



# IC TEST REPORT

## (RSS-133)

Applicant:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America

Manufacturer or Supplier:	Particle Industries, Inc
Address:	325 9th Street, San Francisco, CA 94103, United States Of America
Product:	B SoM
Brand Name:	Particle
Model Name:	B504e
IC:	20127-B504
Date of tests:	Mar. 31, 2025 ~ Apr. 18, 2025

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

- RSS-133 Issue 7, July, 2024**  
 **RSS-Gen Issue 5, Amendment 1, March 2019**  
 **ANSI C63.26-2015**

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: Apr. 18, 2025	Date: Apr. 18, 2025

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2503280115RI02	Original release	Apr. 18, 2025



## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: IC RSS-133 & RSS-Gen		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
RSS-GEN		
6.7	Occupied Bandwidth	Compliance
6.8	Transmit antenna	Compliance
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
RSS-133		
6.3	Frequency Stability AFC Freq. Error vs. Voltage AFC Freq. Error vs. Temperature	Compliance
6.4	Maximum Peak Output Power	Compliance
6.4	peak-to-average power ratio	Compliance
6.5	Band Edge Measurements	Compliance
6.5	Conducted Spurious Emissions	Compliance
6.5	Transmitter Radiated Spurious Emissions	Compliance
6.6	Receive Spurious Emissions	Compliance

**\*Test Lab Information Reference**

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

**Lab Address:**

Tower N, Innovation Centre 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, P.R.C.

**Accredited Test Lab Cert 6613.01**

**The IC Company Number is 28371; The CAB Identifier No. is CN0131.**

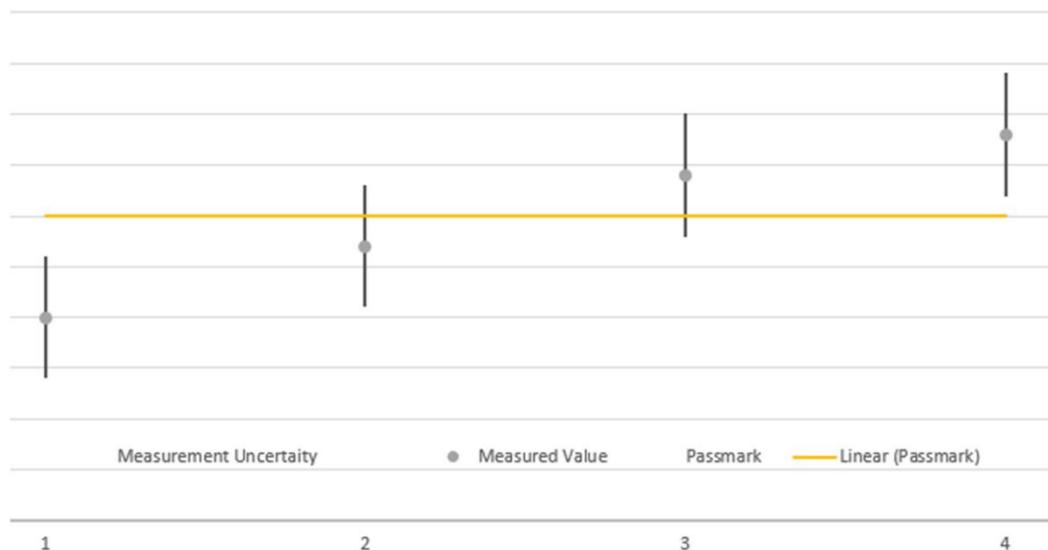


## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 V1.4.1(2001-12):

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (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	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
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.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,23	Aug.21,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,23	Feb.22,25
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
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	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
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.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,24	Apr.26,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

- NOTE:**
1. The calibration interval of the above test instruments is 12/ 24 / 36 months and the calibrations are traceable to CEPREI/CHINA, GRT/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 IC Company Number is 28371; The CAB Identifier No. is CN0131.



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	B SoM	
BRAND NAME	Particle	
MODEL NAME	B504e	
NOMINAL VOLTAGE	VCC: 3.8V. 3V3:3.3V	
MODULATION TYPE	<b>WCDMA:</b> BPSK, QPSK <b>LTE Band 2/25:</b> QPSK, 16QAM	
FREQUENCY RANGE	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz
MAX. EIRP POWER	WCDMA	721.11mW
	LTE Band 2 Channel Bandwidth: 1.4MHz	770.9mW
	LTE Band 2 Channel Bandwidth: 3MHz	753.36mW
	LTE Band 2 Channel Bandwidth: 5MHz	767.36mW
	LTE Band 2 Channel Bandwidth: 10MHz	760.33mW
	LTE Band 2 Channel Bandwidth: 15MHz	751.62mW



EMISSION DESIGNATOR	LTE Band 2 Channel Bandwidth: 20MHz	776.25mW
	LTE Band 25 Channel Bandwidth: 1.4MHz	781.63mW
	LTE Band 25 Channel Bandwidth: 3MHz	778.04mW
	LTE Band 25 Channel Bandwidth: 5MHz	788.86mW
	LTE Band 25 Channel Bandwidth: 10MHz	779.83mW
	LTE Band 25 Channel Bandwidth: 15MHz	796.16mW
	LTE Band 25 Channel Bandwidth: 20MHz	797.99mW
EMISSION DESIGNATOR	WCDMA	4M71F9W
	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M10G7D 16QAM: 1M10W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M70G7D 16QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M50G7D 16QAM: 4M50W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M95G7D 16QAM: 4M84W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 4M85W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 4M85W7D
ANTENNA TYPE	FPC Antenna with 5.3dBi gain for WCDMA II/LTE B2/B25	
HW VERSION	R1.0	
SW VERSION	EG91NAXGAR07A03M1G	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-35-75 °C	



**EXTREME VOLTAGE**

VCC: 3.3V. 3V3:3.0V - VCC: 4.3V. 3V3:3.6V

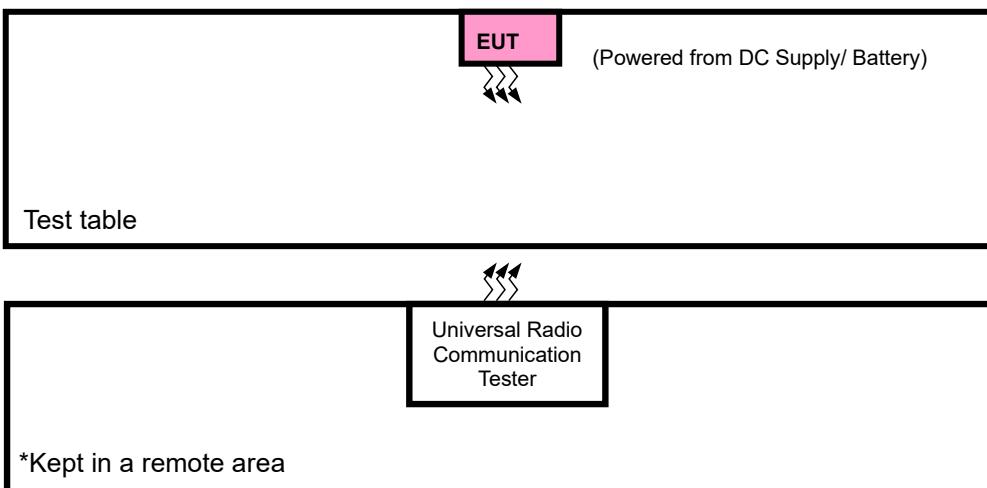
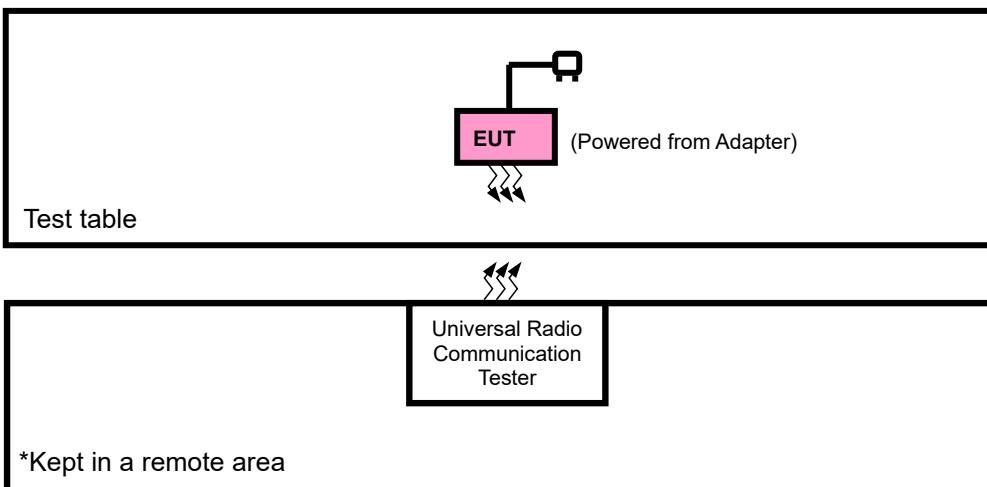
**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



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VERITAS Test Report No.: PSU-QSU2503280115RI02  
**2.2 CONFIGURATION OF SYSTEM UNDER TEST**

**FOR RADIATION EMISSION TEST**





## 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	Kikusui/JP	PMX18-5A	0000001	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 EIRP and radiated emission was found when positioned on X-plane for WCDMA and X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter+ USB Cable with GSM or WCDMA or LTE link
B	EUT + Battery with GSM or WCDMA or LTE link

### \WCDMA

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
B	FREQUENCY STABILITY	9262 to 9538	9262, 9400, 9538	WCDMA
A	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
A	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
A	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
A	CONDUCDETED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA
A	RADIATED EMISSION	9262 to 9538	9262, 9400, 9538	WCDMA



## LTE BAND 2 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset

**Note:** 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So RSE test data please refer to LTE Band 25

## LTE BAND 25 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM	Full RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset



		26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
			26683	1.4MHz		1 RB / 5 RB Offset Full RB / 0 RB Offset
		26055 to 26675	26055	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
			26675	3MHz		1 RB / 14 RB Offset Full RB / 0 RB Offset
		26065 to 26665	26065	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
			26665	5MHz		1 RB / 24 RB Offset Full RB / 0 RB Offset
		26090 to 26640	26090	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset Full RB / 0 RB Offset
			26640	10MHz		1 RB / 49 RB Offset Full RB / 0 RB Offset
		26115 to 26615	26115	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset



						Full RB / 0 RB Offset
		26615	15MHz	QPSK, 16QAM		1 RB / 74 RB Offset
						Full RB / 0 RB Offset
	26140 to 26590	26140	20MHz	QPSK, 16QAM		1 RB / 0 RB Offset
		26590	20MHz	QPSK, 16QAM		Full RB / 0 RB Offset
						1 RB / 99 RB Offset
						Full RB / 0 RB Offset
A	CONDUCTED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26365	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset

**Note:** 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM modulations. And tests other than output power are performed only in worst-case QPSK and 16QAM, 64QAM modes.



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

**TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	AC 120V/60HZ	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	AC 120V/60HZ	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	AC 120V/60HZ	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	AC 120V/60HZ	Hanwen Xu
CONDUCED EMISSION	23deg. C, 70%RH	AC 120V/60HZ	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60HZ	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	AC 120V/60HZ	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

## 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:

**Canada RSS-133, Issue 7, July, 2024**

**Canada RSS-Gen, Issue 5, Amendment 1, March 2019**

**ANSI C63.26 – 2015**

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

## 2.7 TRANSMIT ANTENNA

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

Antenna Type	FPC Antenna
Antenna Gain	FPC Antenna with 5.3dBi gain for WCDMA II/LTE B2/B25
Impedance	50 Ω



### 3 TEST TYPES AND RESULTS

#### 3.1 OUTPUT POWER MEASUREMENT

##### 3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

##### 3.1.2 TEST PROCEDURES

###### EIRP 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  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = 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.

$$\text{ERP}=\text{EIRP}-2.15$$

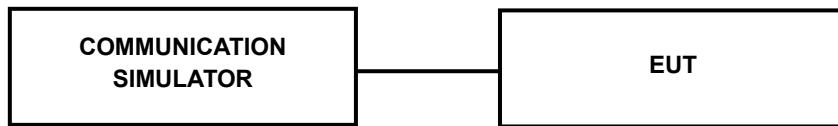
###### CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with GSM & LTE 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

#### CONDUCTED POWER MEASUREMENT:



### 3.1.4 TEST RESULTS

#### CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA II		
TX Channel	9262	9400	9538
Rx Channel	9662	9800	9938
Frequency (MHz)	1852.4	1880	1907.6
RMC 12.2K	23.28	23.13	23.16
HSDPA Subtest-1	22.31	22.12	22.20
HSDPA Subtest-2	22.26	22.13	22.16
HSDPA Subtest-3	21.85	21.69	21.70
HSDPA Subtest-4	21.80	21.66	21.73
DC-HSDPA Subtest-1	22.26	22.15	22.16
DC-HSDPA Subtest-2	22.28	22.11	22.13
DC-HSDPA Subtest-3	21.76	21.66	21.66
DC-HSDPA Subtest-4	21.76	21.64	21.66
HSUPA Subtest-1	22.33	22.14	22.17
HSUPA Subtest-2	20.36	20.22	20.24
HSUPA Subtest-3	21.33	21.16	21.20
HSUPA Subtest-4	20.31	20.20	20.22
HSUPA Subtest-5	22.29	22.13	22.18

**LTE BAND 2****BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18607	18900	19193
		Frequency (MHz)		1850.70	1880	1909.30
1.4M	QPSK	1	0	23.44	23.22	23.57
		1	2	23.28	23.06	23.50
		1	5	23.19	22.93	23.31
		3	0	23.09	22.84	23.25
		3	1	23.27	22.88	23.33
		3	3	23.00	22.64	23.03
		6	0	21.98	21.74	22.05
	16QAM	1	0	22.13	21.93	22.26
		1	2	22.07	22.01	22.26
		1	5	21.83	21.57	21.95
		3	0	22.20	21.91	22.20
		3	1	22.30	22.10	22.39
		3	3	22.21	21.98	22.39
		6	0	20.97	20.70	20.93

**BW: 3M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18615	18900	19185
		Frequency (MHz)		1851.50	1880	1908.50
3M	QPSK	1	0	23.39	23.16	23.47
		1	7	23.37	23.06	23.45
		1	14	23.15	22.99	23.23
		8	0	22.06	21.82	22.22
		8	3	22.29	21.87	22.30
		8	7	22.02	21.65	21.98
		15	0	22.06	21.81	22.08
	16QAM	1	0	22.07	21.93	22.32
		1	7	22.10	21.95	22.32
		1	14	21.81	21.65	21.97
		8	0	21.12	20.91	21.20
		8	3	21.30	21.05	21.34
		8	7	21.14	20.95	21.34
		15	0	21.04	20.81	20.93

**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18625	18900	19175
		Frequency (MHz)		1852.50	1880	1907.50
5M	QPSK	1	0	23.34	23.14	23.55
		1	12	23.33	23.03	23.46
		1	24	23.19	22.95	23.29
		12	0	22.04	21.79	22.16
		12	6	22.31	21.88	22.40
		12	13	22.04	21.63	22.03
		25	0	22.05	21.70	22.09
	16QAM	1	0	22.20	21.95	22.26
		1	12	22.13	22.00	22.28
		1	24	21.86	21.66	22.06
		12	0	21.19	20.92	21.29
		12	6	21.25	21.19	21.35
		12	13	21.17	21.01	21.32
		25	0	20.92	20.70	20.95

**BW: 10M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18650	18900	19150
		Frequency (MHz)		1855	1880	1905
10M	QPSK	1	0	23.43	23.23	23.51
		1	24	23.28	22.99	23.50
		1	49	23.26	22.95	23.29
		25	0	21.97	21.83	22.21
		25	12	22.31	21.95	22.36
		25	25	22.03	21.76	22.09
		50	0	22.06	21.73	22.15
	16QAM	1	0	22.09	21.87	22.37
		1	24	22.04	22.00	22.24
		1	49	21.84	21.64	22.01
		12	0	22.09	21.86	22.22
		12	17	22.26	22.16	22.33
		12	36	22.24	21.99	22.32
		27	0	20.91	20.82	21.05



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**BW: 15M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18675	18900	19125
		Frequency (MHz)		1857.50	1880	1902.50
15M	QPSK	1	0	23.34	23.20	23.46
		1	37	23.32	22.97	23.44
		1	74	23.25	22.97	23.21
		36	0	22.03	21.83	22.23
		36	19	22.28	21.92	22.32
		36	39	22.02	21.75	22.01
		75	0	21.96	21.78	22.16
	16QAM	1	0	22.17	21.94	22.38
		1	37	22.01	21.98	22.27
		1	74	21.81	21.60	22.08
		12	0	22.09	21.88	22.29
		12	30	22.35	22.16	22.29
		12	61	22.18	22.01	22.33
		27	0	21.03	20.71	21.01

**BW: 20M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		18700	18900	19100
		Frequency (MHz)		1860	1880	1900
20M	QPSK	1	0	23.49	23.29	23.60
		1	50	23.40	23.10	23.53
		1	99	23.30	23.04	23.32
		50	0	22.12	21.91	22.27
		50	25	22.35	22.02	22.44
		50	50	22.09	21.78	22.12
		100	0	22.10	21.85	22.19
	16QAM	1	0	22.22	22.00	22.40
		1	50	22.15	22.02	22.33
		1	99	21.96	21.70	22.10
		12	0	22.23	21.97	22.34
		12	42	22.36	22.20	22.44
		12	86	22.27	22.03	22.43
		27	0	21.05	20.83	21.06

**LTE BAND 25****BW: 1.4M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26047	26340	26683
		Frequency (MHz)		1850.70	1880	1914.30
1.4M	QPSK	1	0	23.09	23.12	23.27
		1	2	23.62	23.55	23.63
		1	5	23.11	23.24	23.20
		3	0	23.10	22.96	23.10
		3	1	22.95	22.83	23.11
		3	3	23.02	22.87	23.06
		6	0	21.95	21.98	21.98
	16QAM	1	0	22.34	22.16	22.21
		1	2	21.90	21.98	22.09
		1	5	21.49	21.46	21.62
		3	0	21.70	21.75	21.82
		3	1	21.97	22.02	22.04
		3	3	21.72	21.66	21.66
		6	0	20.88	20.76	21.04

**BW: 3M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26055	26340	26675
		Frequency (MHz)		1851.50	1880	1913.50
3M	QPSK	1	0	23.09	23.26	23.16
		1	7	23.61	23.49	23.61
		1	14	23.18	23.22	23.25
		8	0	22.08	21.95	21.96
		8	3	22.01	21.86	22.03
		8	7	21.97	21.99	21.97
		15	0	21.89	21.98	21.97
	16QAM	1	0	22.31	22.05	22.25
		1	7	21.85	21.93	21.99
		1	14	21.47	21.53	21.67
		8	0	20.70	20.73	20.94
		8	3	20.84	20.94	21.06
		8	7	20.72	20.78	20.71
		15	0	21.01	20.88	20.92



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**BW: 5M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26065	26340	26665
		Frequency (MHz)		1852.50	1880	1912.50
5M	QPSK	1	0	23.17	23.18	23.21
		1	12	23.67	23.56	23.51
		1	24	23.18	23.28	23.14
		12	0	22.06	21.98	22.06
		12	6	21.93	21.88	22.09
		12	13	21.96	21.91	21.96
		25	0	21.93	22.01	22.00
	16QAM	1	0	22.35	22.08	22.29
		1	12	21.84	21.92	22.11
		1	24	21.48	21.44	21.64
		12	0	20.79	20.87	20.82
		12	6	20.97	20.96	20.95
		12	13	20.60	20.75	20.77
		27	0	20.92	20.84	20.94

**BW: 10M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26090	26340	26640
		Frequency (MHz)		1855	1880	1910
10M	QPSK	1	0	23.22	23.16	23.19
		1	24	23.62	23.57	23.50
		1	49	23.21	23.23	23.25
		25	0	22.05	22.02	22.00
		25	12	22.05	21.87	22.04
		25	25	21.95	22.01	22.00
		50	0	21.97	21.99	21.96
	16QAM	1	0	22.27	22.05	22.33
		1	24	21.89	22.03	22.09
		1	49	21.50	21.43	21.65
		12	0	21.75	21.83	21.91
		12	17	21.84	22.00	22.05
		12	36	21.70	21.69	21.68
		27	0	21.00	20.76	20.99



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**BW: 15M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26115	26340	26615
		Frequency (MHz)		1857.50	1880	1907.50
15M	QPSK	1	0	23.21	23.25	23.15
		1	37	23.71	23.54	23.53
		1	74	23.22	23.20	23.22
		36	0	22.06	21.92	21.96
		36	19	21.95	21.88	22.00
		36	39	21.95	21.91	22.04
		75	0	21.90	21.90	21.99
	16QAM	1	0	22.23	22.15	22.21
		1	37	21.90	22.04	22.12
		1	74	21.55	21.44	21.61
		12	0	21.79	21.79	21.94
		12	30	21.87	22.06	21.92
		12	61	21.59	21.69	21.76
		27	0	20.95	20.80	20.90

**BW: 20M**

BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		26140	26340	26590
		Frequency (MHz)		1860	1880	1905
20M	QPSK	1	0	23.24	23.27	23.30
		1	50	23.72	23.61	23.65
		1	99	23.26	23.34	23.28
		50	0	22.18	22.06	22.11
		50	25	22.06	21.98	22.13
		50	50	22.09	22.02	22.07
		100	0	22.02	22.05	22.07
	16QAM	1	0	22.36	22.18	22.34
		1	50	21.98	22.07	22.13
		1	99	21.61	21.57	21.69
		12	0	21.83	21.88	21.97
		12	42	21.98	22.08	22.07
		12	86	21.74	21.81	21.79
		27	0	21.02	20.91	21.05



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EIRP POWER (dBm)

WCDMA II						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
9262	1852.4	23.28	5.3	28.58	721.11	2
9400	1880	23.13	5.3	28.43	696.63	2
9538	1907.6	23.16	5.3	28.46	701.46	2

LTE B2 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	23.44	5.3	28.74	748.17	2
18900	1880	23.22	5.3	28.52	711.21	2
19193	1909.3	23.57	5.3	28.87	770.9	2

LTE B2 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18607	1850.7	22.3	5.3	27.6	575.44	2
18900	1880	22.1	5.3	27.4	549.54	2
19193	1909.3	22.39	5.3	27.69	587.49	2

LTE B2 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	23.39	5.3	28.69	739.61	2
18900	1880	23.16	5.3	28.46	701.46	2
19185	1908.5	23.47	5.3	28.77	753.36	2

LTE B2 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18615	1851.5	22.1	5.3	27.4	549.54	2
18900	1880	21.95	5.3	27.25	530.88	2
19185	1908.5	22.32	5.3	27.62	578.1	2

LTE B2 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	23.34	5.3	28.64	731.14	2
18900	1880	23.14	5.3	28.44	698.23	2
19175	1907.5	23.55	5.3	28.85	767.36	2



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LTE B2 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18625	1852.5	22.2	5.3	27.5	562.34	2
18900	1880	22	5.3	27.3	537.03	2
19175	1907.5	22.28	5.3	27.58	572.8	2

LTE B2 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	23.43	5.3	28.73	746.45	2
18900	1880	23.23	5.3	28.53	712.85	2
19150	1905	23.51	5.3	28.81	760.33	2

LTE B2 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18650	1855	22.26	5.3	27.56	570.16	2
18900	1880	22.16	5.3	27.46	557.19	2
19150	1905	22.37	5.3	27.67	584.79	2

LTE B2 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	23.34	5.3	28.64	731.14	2
18900	1880	23.2	5.3	28.5	707.95	2
19125	1902.5	23.46	5.3	28.76	751.62	2

LTE B2 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18675	1857.5	22.35	5.3	27.65	582.1	2
18900	1880	22.16	5.3	27.46	557.19	2
19125	1902.5	22.38	5.3	27.68	586.14	2

LTE B2 20M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	23.49	5.3	28.79	756.83	2
18900	1880	23.29	5.3	28.59	722.77	2
19100	1900	23.6	5.3	28.9	776.25	2



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LTE B2 20M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
18700	1860	22.36	5.3	27.66	583.45	2
18900	1880	22.2	5.3	27.5	562.34	2
19100	1900	22.44	5.3	27.74	594.29	2

LTE B25 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	23.62	5.3	28.92	779.83	2
26340	1880	23.55	5.3	28.85	767.36	2
26683	1914.3	23.63	5.3	28.93	781.63	2

LTE B25 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26047	1850.7	22.34	5.3	27.64	580.76	2
26340	1880	22.16	5.3	27.46	557.19	2
26683	1914.3	22.21	5.3	27.51	563.64	2

LTE B25 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	23.61	5.3	28.91	778.04	2
26340	1880	23.49	5.3	28.79	756.83	2
26675	1913.5	23.61	5.3	28.91	778.04	2

LTE B25 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26055	1851.5	22.31	5.3	27.61	576.77	2
26340	1880	22.05	5.3	27.35	543.25	2
26675	1913.5	22.25	5.3	27.55	568.85	2

LTE B25 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	23.67	5.3	28.97	788.86	2
26340	1880	23.56	5.3	28.86	769.13	2
26665	1912.5	23.51	5.3	28.81	760.33	2



BUREAU  
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LTE B25 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26065	1852.5	22.35	5.3	27.65	582.1	2
26340	1880	22.08	5.3	27.38	547.02	2
26665	1912.5	22.29	5.3	27.59	574.12	2

LTE B25 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	23.62	5.3	28.92	779.83	2
26340	1880	23.57	5.3	28.87	770.9	2
26640	1910	23.5	5.3	28.8	758.58	2

LTE B25 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26090	1855	22.27	5.3	27.57	571.48	2
26340	1880	22.05	5.3	27.35	543.25	2
26640	1910	22.33	5.3	27.63	579.43	2

LTE B25 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	23.71	5.3	29.01	796.16	2
26340	1880	23.54	5.3	28.84	765.6	2
26615	1907.5	23.53	5.3	28.83	763.84	2

LTE B25 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26115	1857.5	22.23	5.3	27.53	566.24	2
26340	1880	22.15	5.3	27.45	555.9	2
26615	1907.5	22.21	5.3	27.51	563.64	2

LTE B25 20M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	23.72	5.3	29.02	797.99	2
26340	1880	23.61	5.3	28.91	778.04	2
26590	1905	23.65	5.3	28.95	785.24	2



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LTE B25 20M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Limit (W)
26140	1860	22.36	5.3	27.66	583.45	2
26340	1880	22.18	5.3	27.48	559.76	2
26590	1905	22.34	5.3	27.64	580.76	2

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



## 3.2 FREQUENCY STABILITY MEASUREMENT

### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

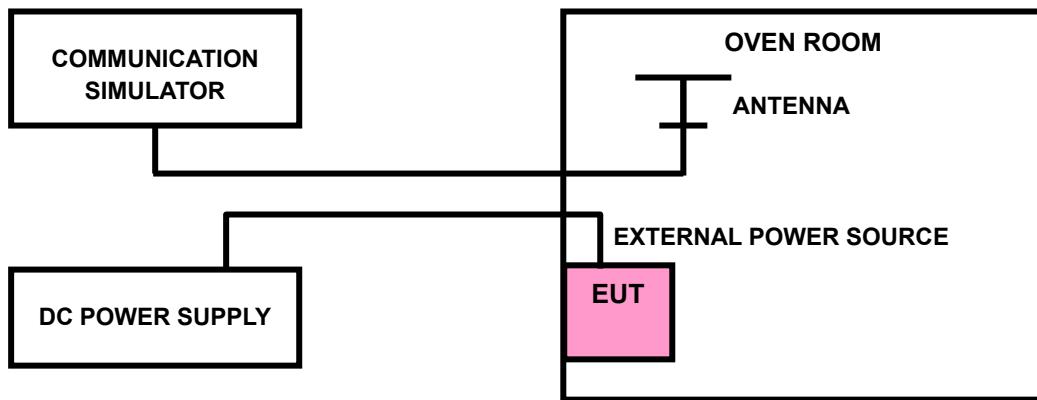
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 3.2.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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





**BUREAU  
VERITAS** Test Report No.: PSU-QSU2503280115RI02

### 3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

Note: 1.VL = Low voltage(3.2V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.2V);  
NT = Normal temperature (25°C)

2. The frequency fundamental emissions stay within the authorized frequency block.

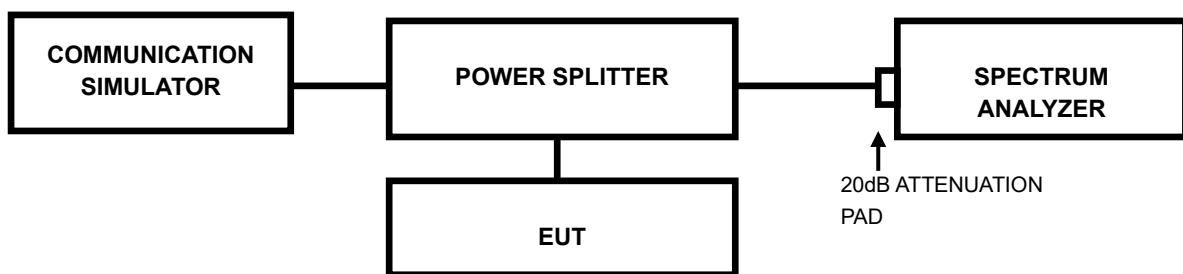


### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

#### 3.3.2 TEST SETUP





**BUREAU  
VERITAS** Test Report No.: PSU-QSU2503280115RI02

### 3.3.3 TEST RESULTS

Please Refer to Appendix Of this test report.

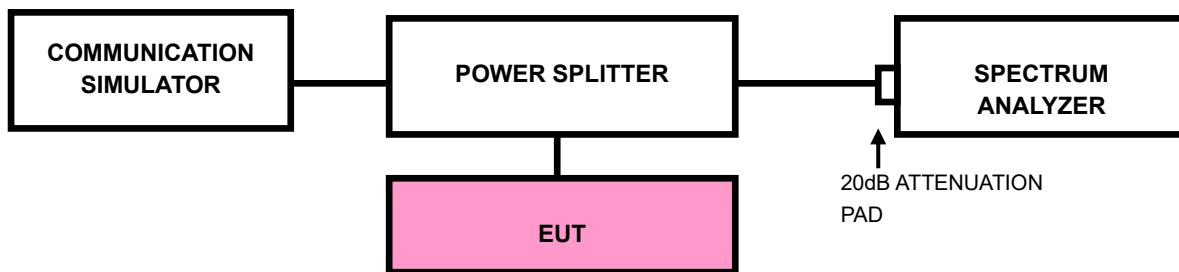


### 3.4 BAND EDGE MEASUREMENT

#### 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  $\geq 1001$ .
- 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.



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### 3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.



### 3.5 CONDUCTED SPURIOUS EMISSIONS

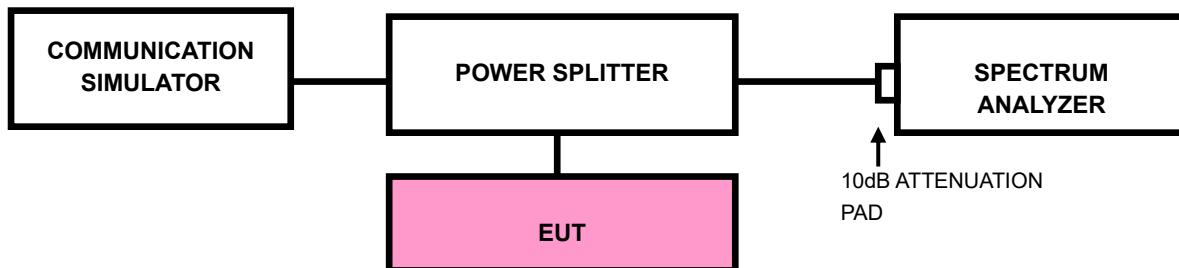
#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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  $-13\text{dBm}$ .

#### 3.5.2 TEST PROCEDURE

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

#### 3.5.3 TEST SETUP





**BUREAU  
VERITAS** Test Report No.: PSU-QSU2503280115RI02

### 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/1.5m 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. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

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

#### 3.6.3 DEVIATION FROM TEST STANDARD

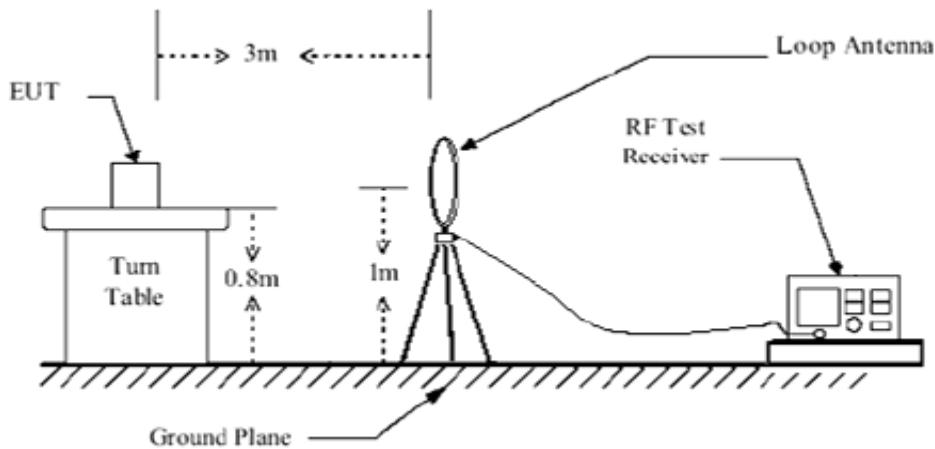
No deviation



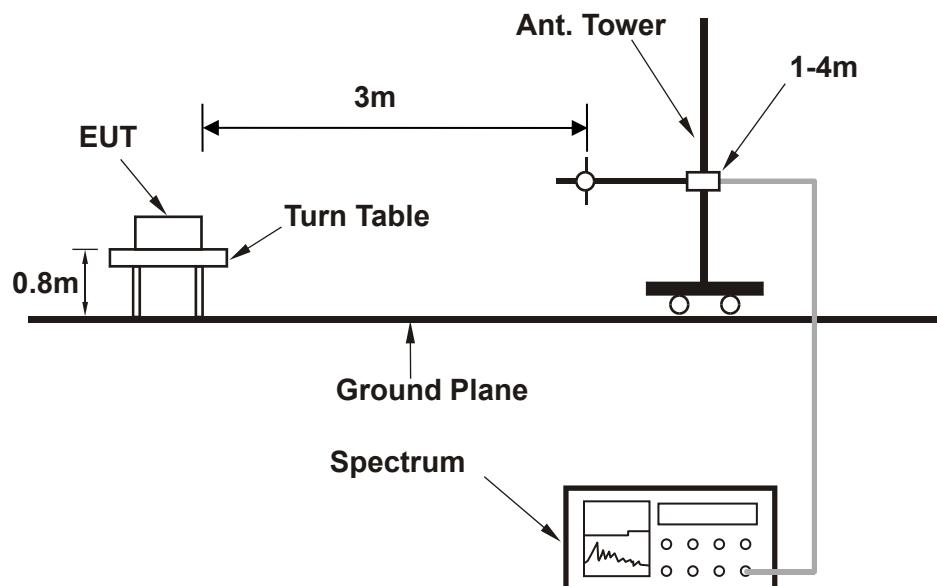
BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

### 3.6.4 TEST SETUP

#### < Frequency Range below 30MHz >



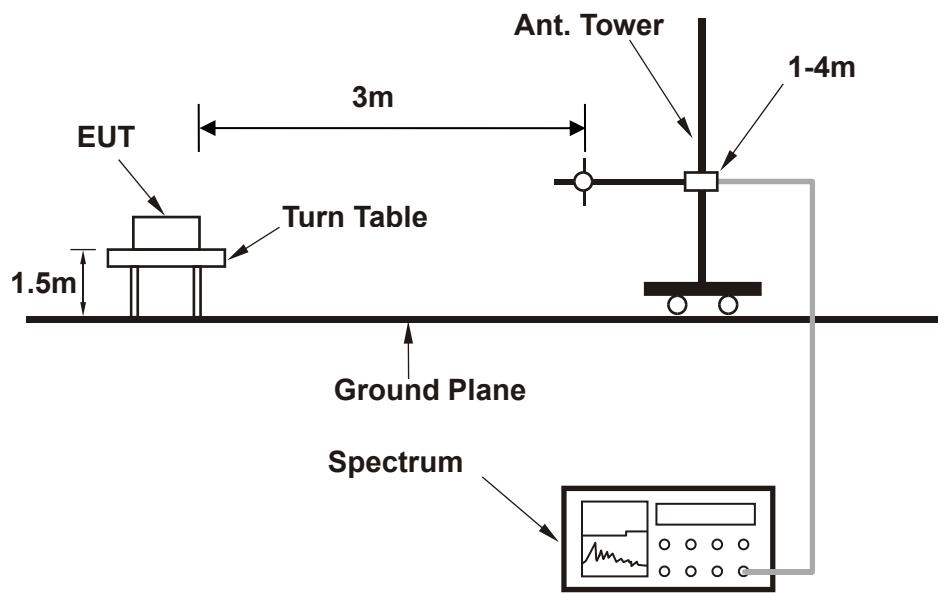
#### < Frequency Range 30MHz~1GHz >





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VERITAS Test Report No.: PSU-QSU2503280115RI02

< Frequency Range above 1GHz >



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

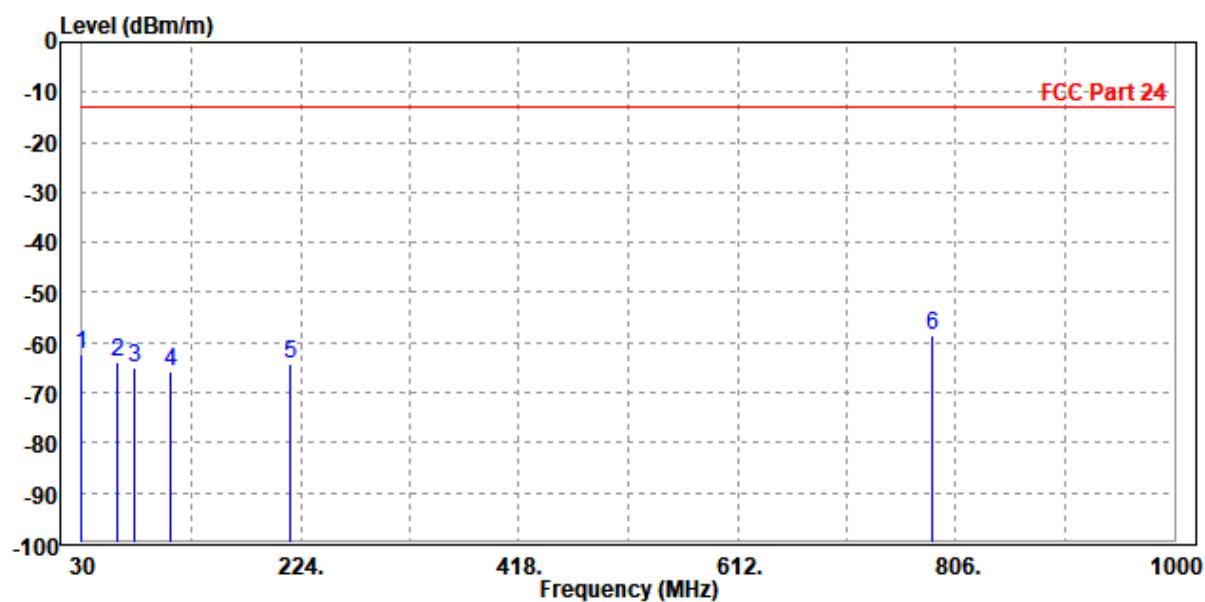
30 MHz – 1GHz data:

LTE Band 25:

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 26683	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Level	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	30.000	-62.48	-60.50	-13.00	-49.48	-1.98 Peak	Horizontal
2	62.010	-63.73	-51.33	-13.00	-50.73	-12.40 Peak	Horizontal
3	76.560	-65.16	-52.62	-13.00	-52.16	-12.54 Peak	Horizontal
4	108.570	-65.65	-51.50	-13.00	-52.65	-14.15 Peak	Horizontal
5	214.300	-64.41	-50.24	-13.00	-51.41	-14.17 Peak	Horizontal
6 PP	785.630	-58.58	-63.65	-13.00	-45.58	5.07 Peak	Horizontal

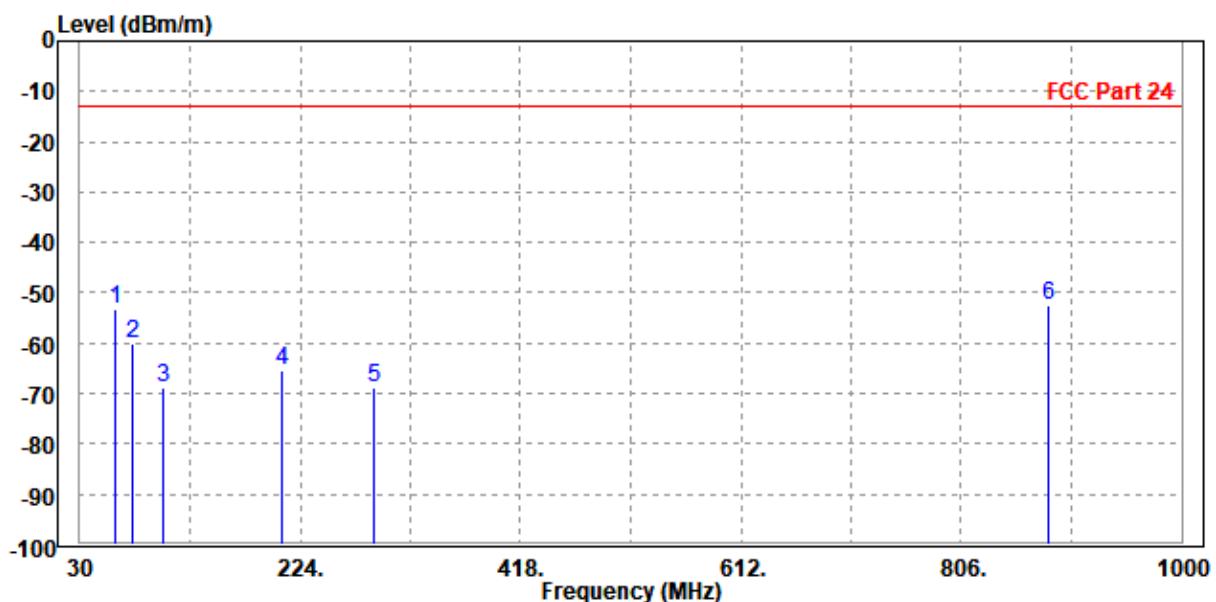




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26683	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq MHz	Read Level dBm/m	Limit Level dBm	Over Line dBm/m	Over Limit dB	Over Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	61.040	-53.21	-34.72	-13.00	-40.21	-18.49	Peak Vertical
2	76.560	-59.90	-40.38	-13.00	-46.90	-19.52	Peak Vertical
3	103.720	-68.99	-52.47	-13.00	-55.99	-16.52	Peak Vertical
4	208.480	-65.57	-57.32	-13.00	-52.57	-8.25	Peak Vertical
5	288.990	-68.94	-65.46	-13.00	-55.94	-3.48	Peak Vertical
6 PP	882.630	-52.57	-63.46	-13.00	-39.57	10.89	Peak Vertical





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VERITAS Test Report No.: PSU-QSU2503280115RI02

### ABOVE 1GHz DATA

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

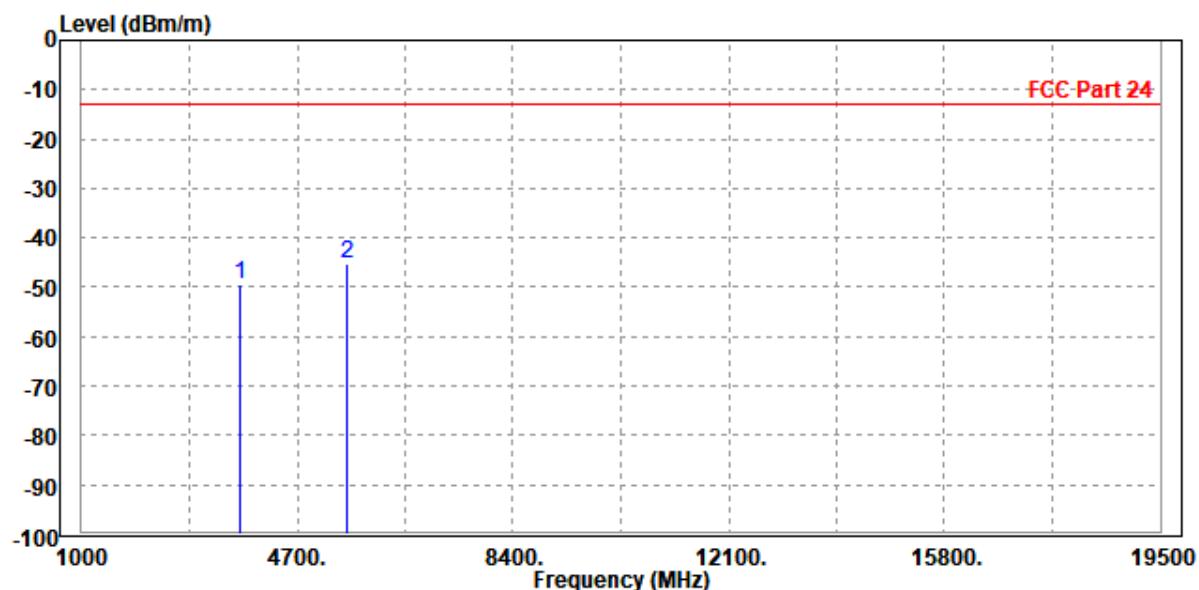
### WORST-CASE DATA

#### WCDMA Band II

CH 9262

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3704.800	-49.36	-57.76	-13.00	-36.36	8.40 Peak Horizontal
2	PP 5551.000	-45.10	-56.90	-13.00	-32.10	11.80 Peak Horizontal

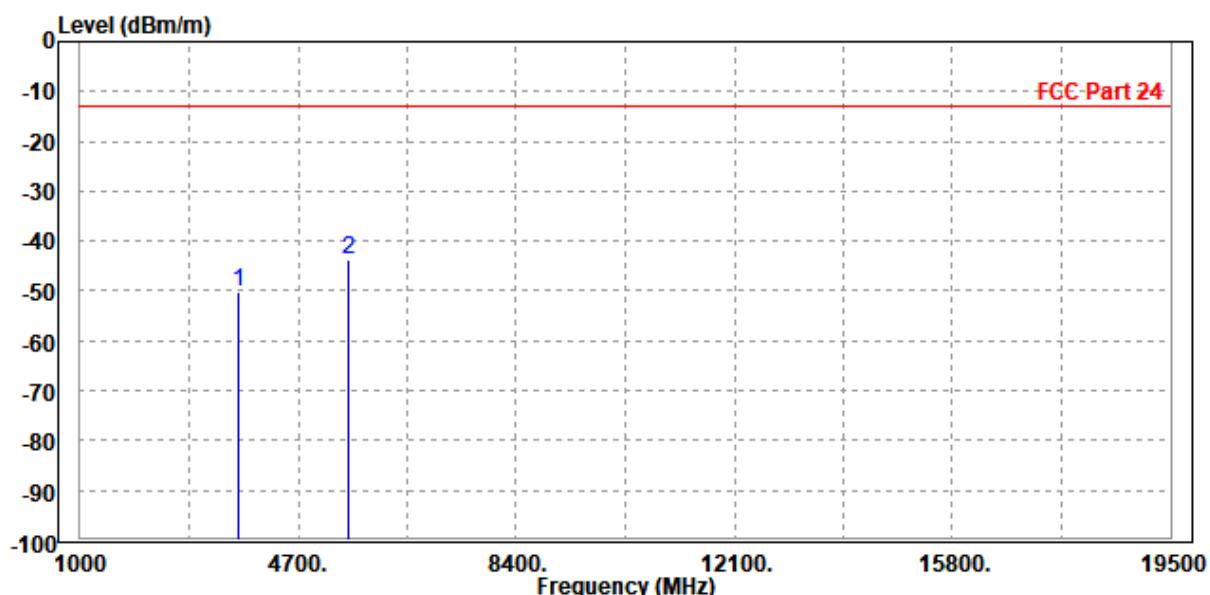




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Level	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3701.000	-50.20	-58.83	-13.00	-37.20	8.63 Peak	Vertical
2	PP 5557.200	-43.91	-56.24	-13.00	-30.91	12.33 Peak	Vertical

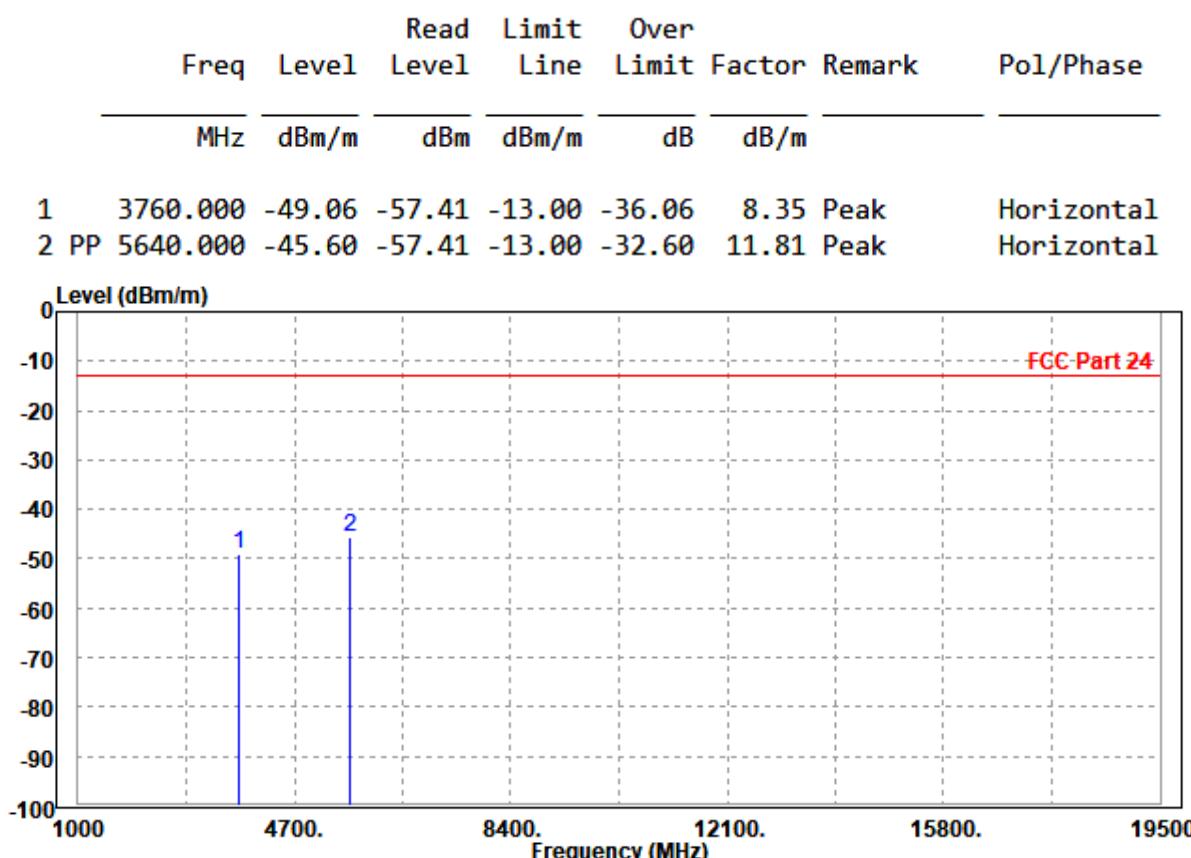




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

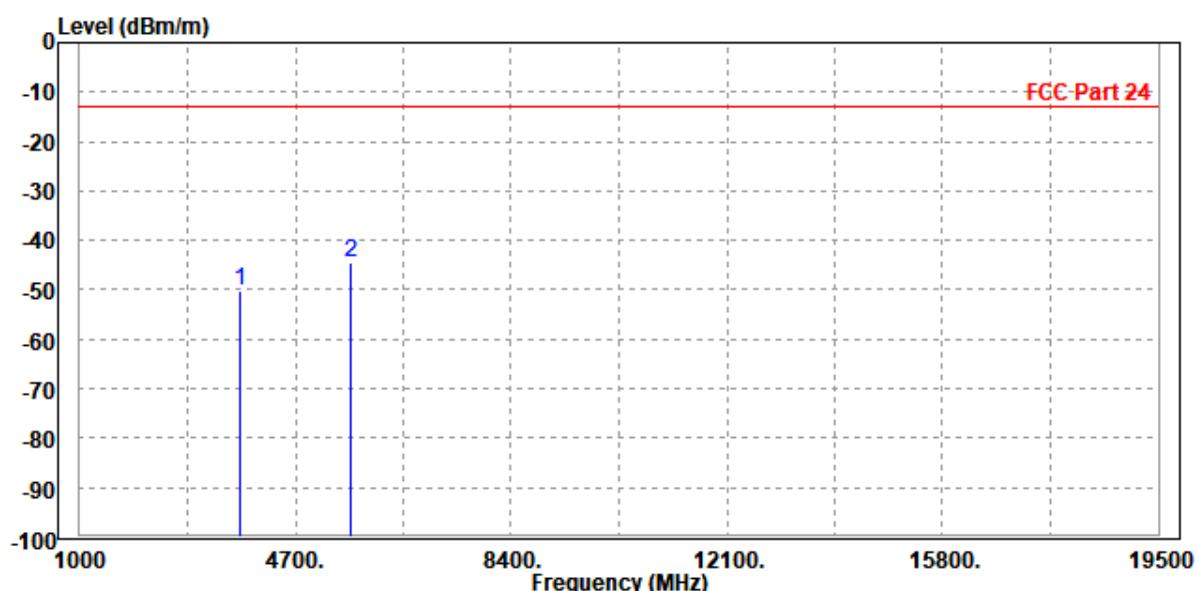


MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

Freq	Level	Read	Limit	Over	Pol/Phase	
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3756.500	-50.22	-58.85	-13.00	-37.22	8.63 Peak Vertical
2	PP 5640.000	-44.63	-56.95	-13.00	-31.63	12.32 Peak Vertical



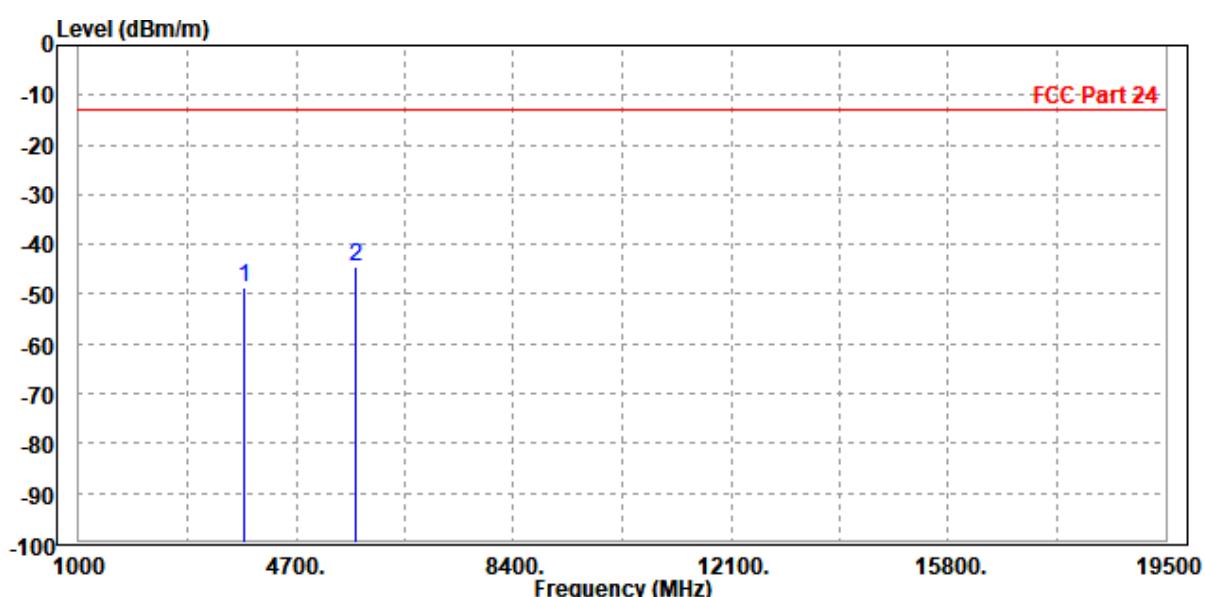
#### CH 9538

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

Freq	Read	Limit	Over	Factor	Remark	Pol/Phase
	Level	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3815.200	-48.68	-56.99	-13.00	-35.68	8.31 Peak Horizontal
2	PP 5717.500	-44.35	-56.17	-13.00	-31.35	11.82 Peak Horizontal

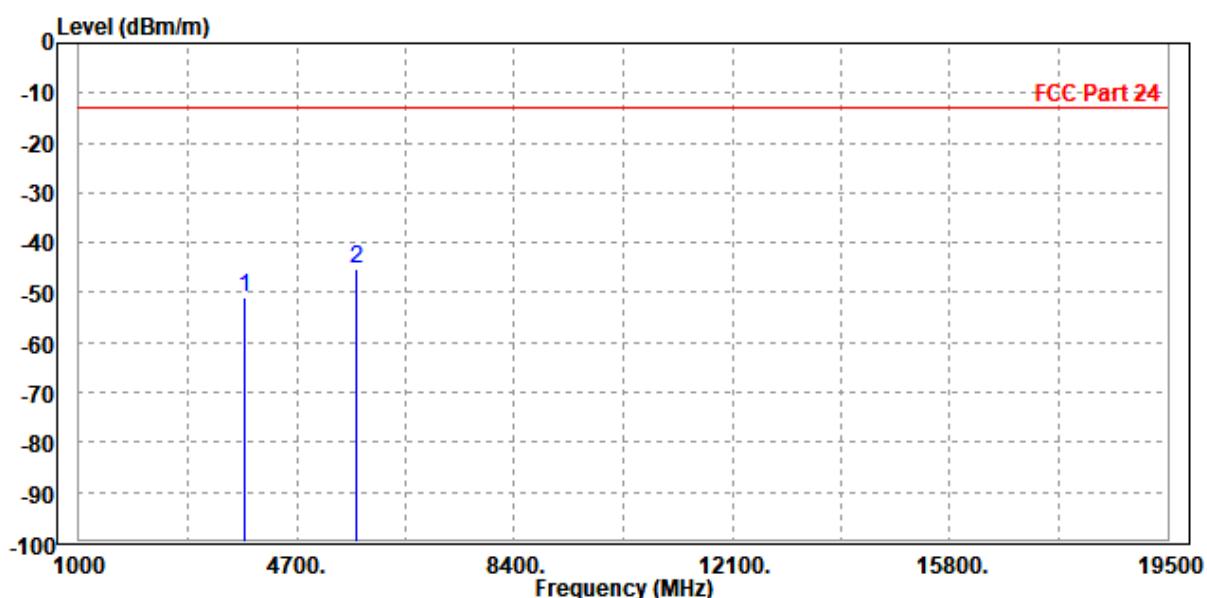


MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Line	Line	dB			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-50.80	-59.43	-13.00	-37.80	8.63 Peak	Vertical
2	PP 5722.800	-45.18	-57.49	-13.00	-32.18	12.31 Peak	Vertical



#### LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

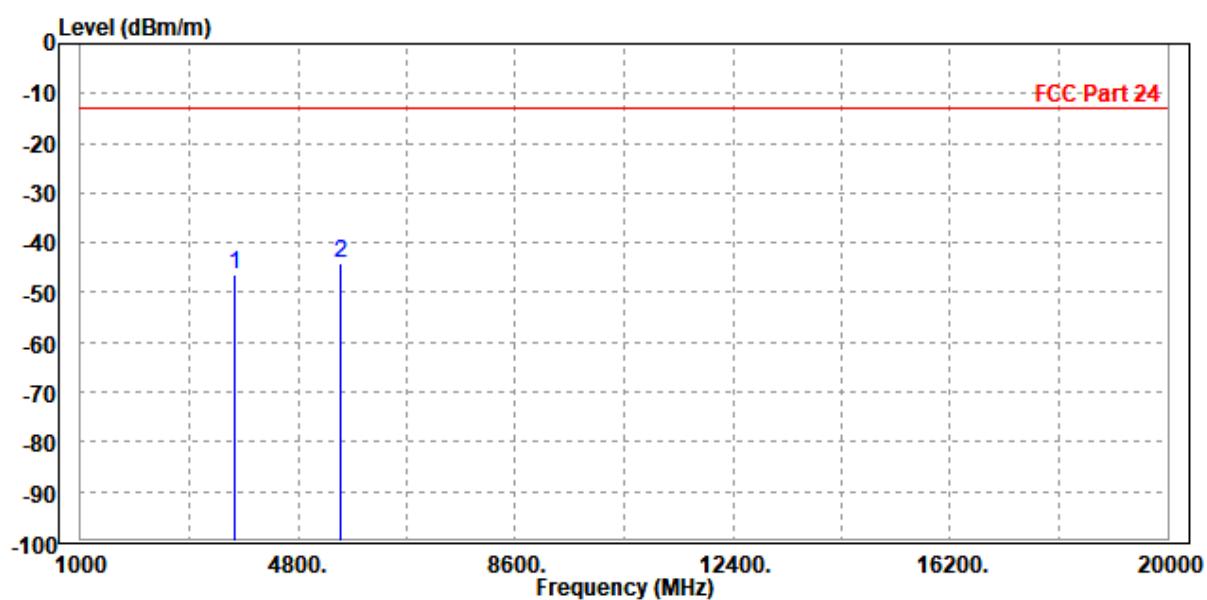
CH 26047

MODE	TX channel 26047	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Line	dBm/m	dB			
MHz	dBm/m	dB	dBm/m	dB	dB/m		
1	3698.000	-46.20	-54.60	-13.00	-33.20	8.40	Peak Horizontal
2	PP 5552.100	-44.23	-56.03	-13.00	-31.23	11.80	Peak Horizontal

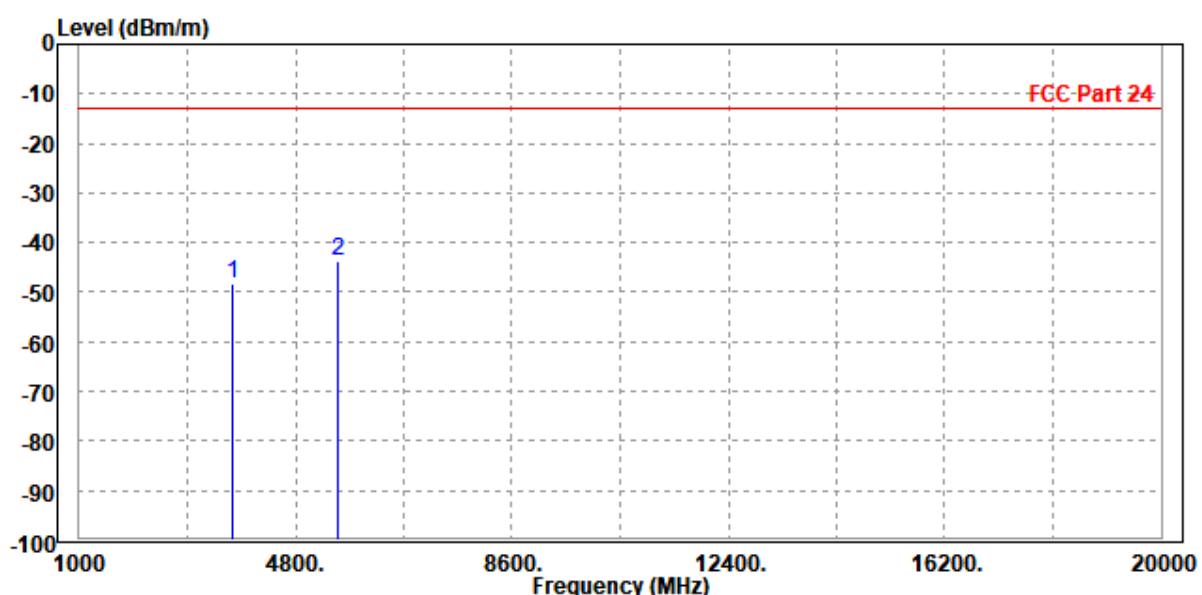




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26047	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Level	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 3701.400	-48.31	-56.94	-13.00	-35.31	8.63	Peak	Vertical
2 PP 5560.000	-43.90	-56.23	-13.00	-30.90	12.33	Peak	Vertical

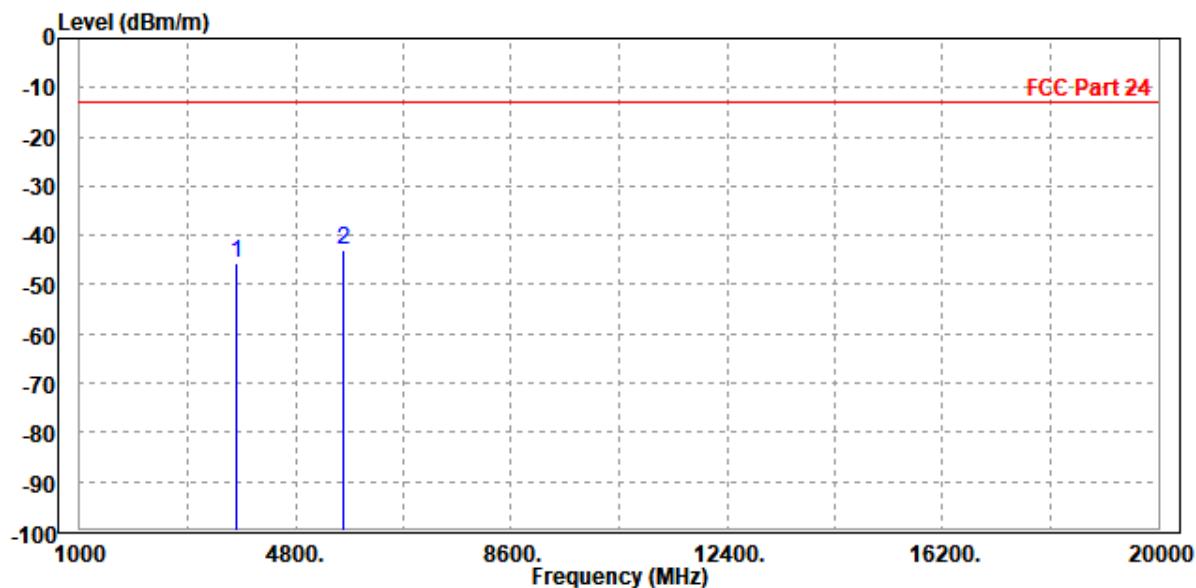




CH 26365

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Level	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-45.73	-54.08	-13.00	-32.73	8.35 Peak	Horizontal
2 PP	5636.000	-42.83	-54.64	-13.00	-29.83	11.81 Peak	Horizontal

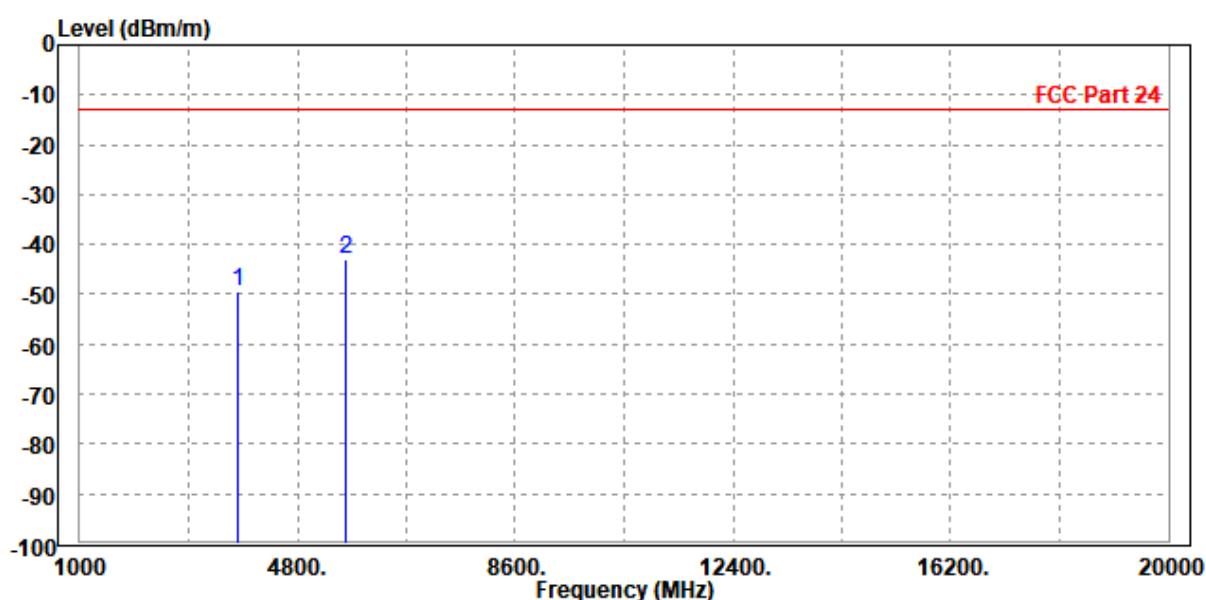




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3755.000	-49.26	-57.89	-13.00	-36.26	8.63 Peak Vertical
2	PP 5640.000	-43.08	-55.40	-13.00	-30.08	12.32 Peak Vertical



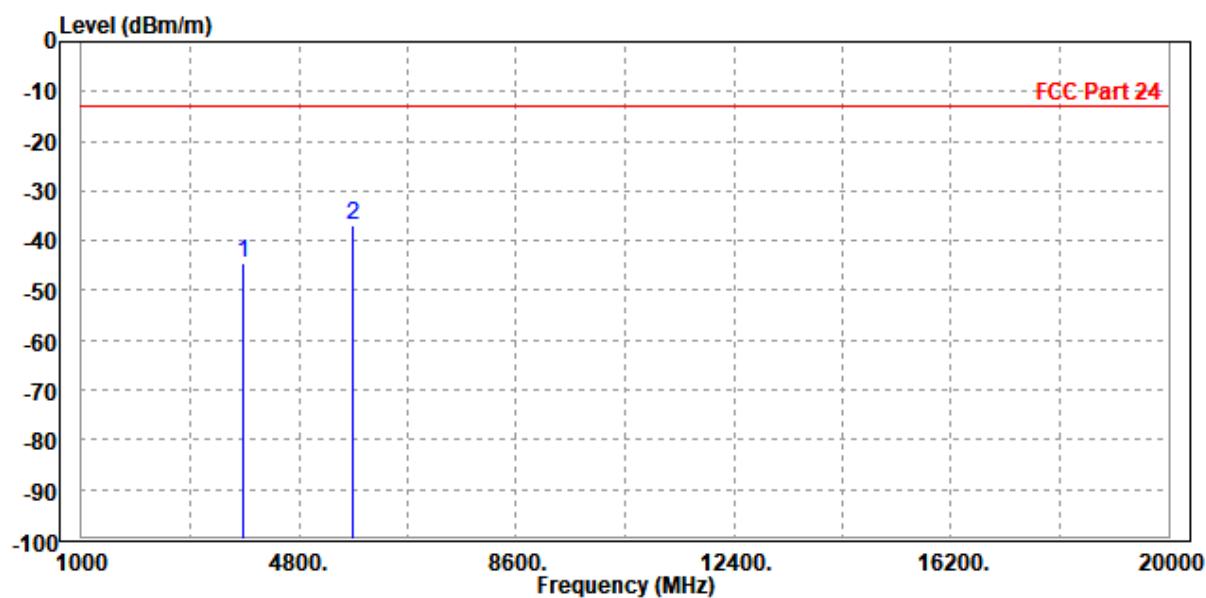


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CH 26683

MODE	TX channel 26683	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Line	Line	Limit Factor			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3828.600	-44.51	-52.81	-13.00	-31.51	8.30 Peak	Horizontal
2	PP 5750.000	-36.80	-48.62	-13.00	-23.80	11.82 Peak	Horizontal

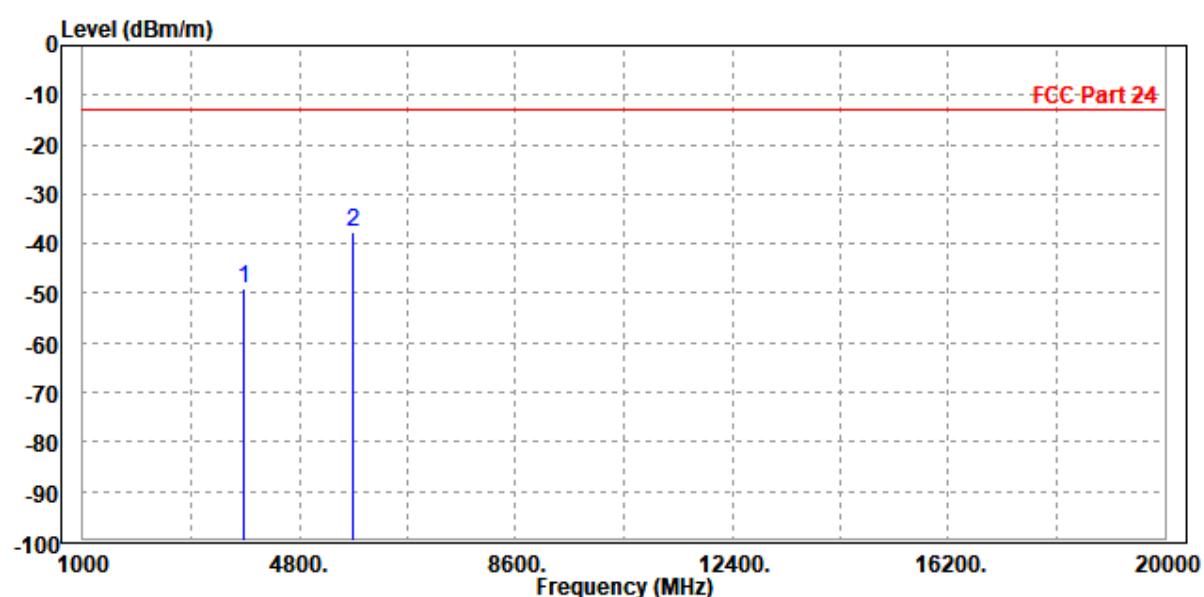




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26683	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq MHz	Read Level dBm/m	Limit Level dBm	Over Line Limit dBm/m	Over Factor	Over Remark	Pol/Phase
1 3831.000	-49.07	-57.70	-13.00	-36.07	8.63 Peak	Vertical
2 PP 5742.900	-37.60	-49.91	-13.00	-24.60	12.31 Peak	Vertical



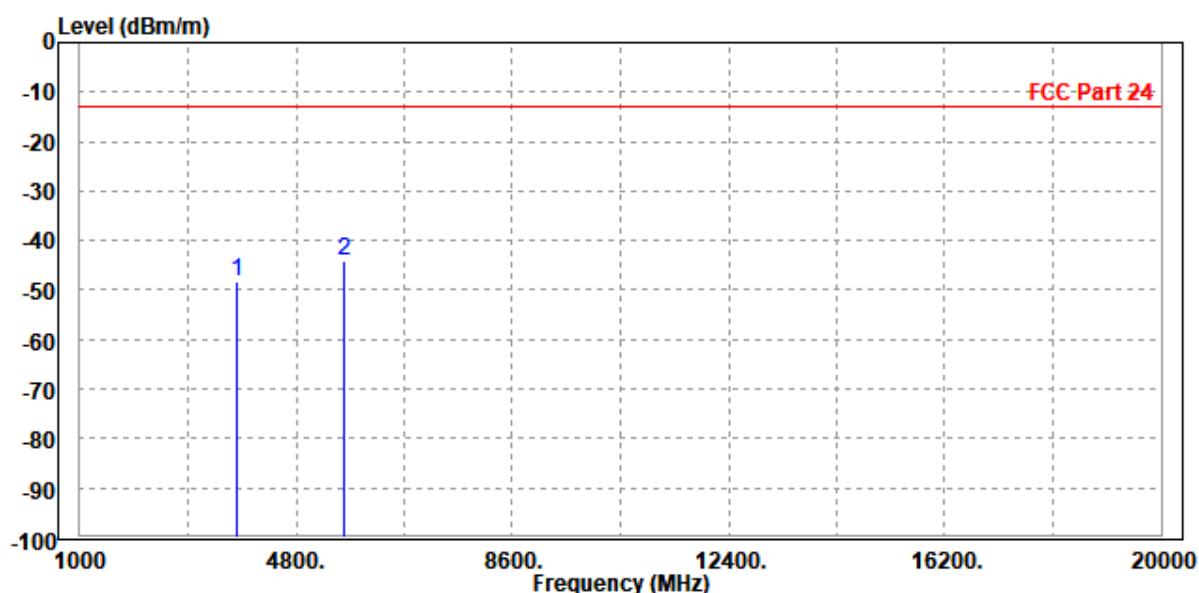


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq MHz	Level dBm/m	Read Level	Limit Line	Over Limit	Over Factor	Remark	Pol/Phase
		dBm	dBM/m	dB	dB/m		
1 3755.000	-48.41	-56.77	-13.00	-35.41	8.36	Peak	Horizontal
2 PP 5640.000	-44.26	-56.07	-13.00	-31.26	11.81	Peak	Horizontal

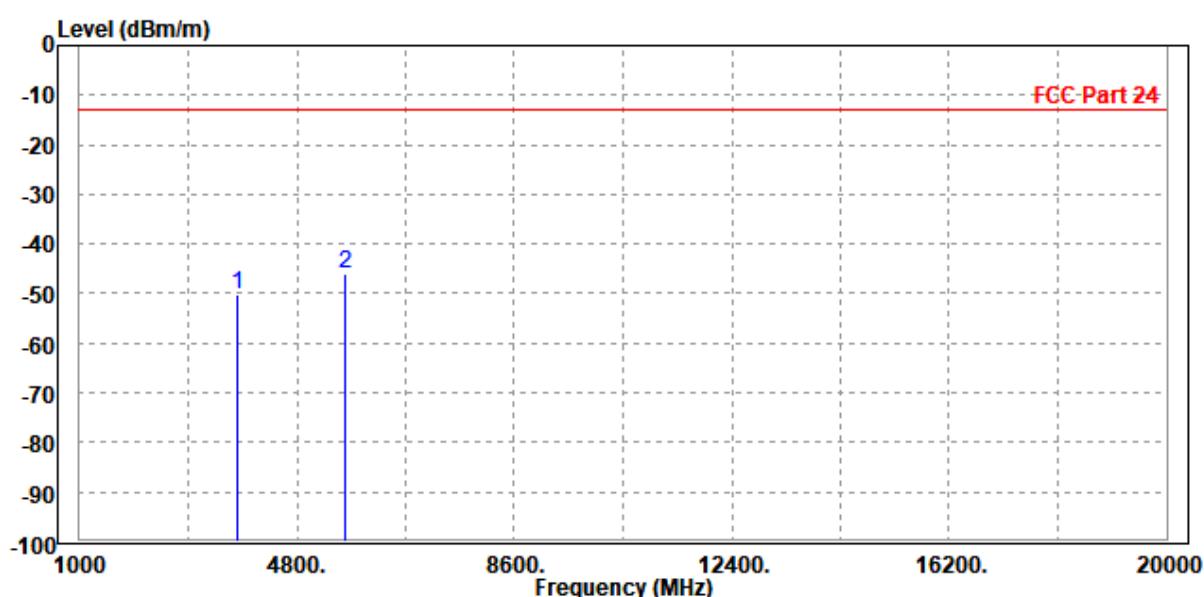




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Level	Line	Limit			
1	3760.000	-50.23	-58.86	-13.00	-37.23	8.63 Peak	Vertical
2	PP 5636.000	-45.96	-58.28	-13.00	-32.96	12.32 Peak	Vertical



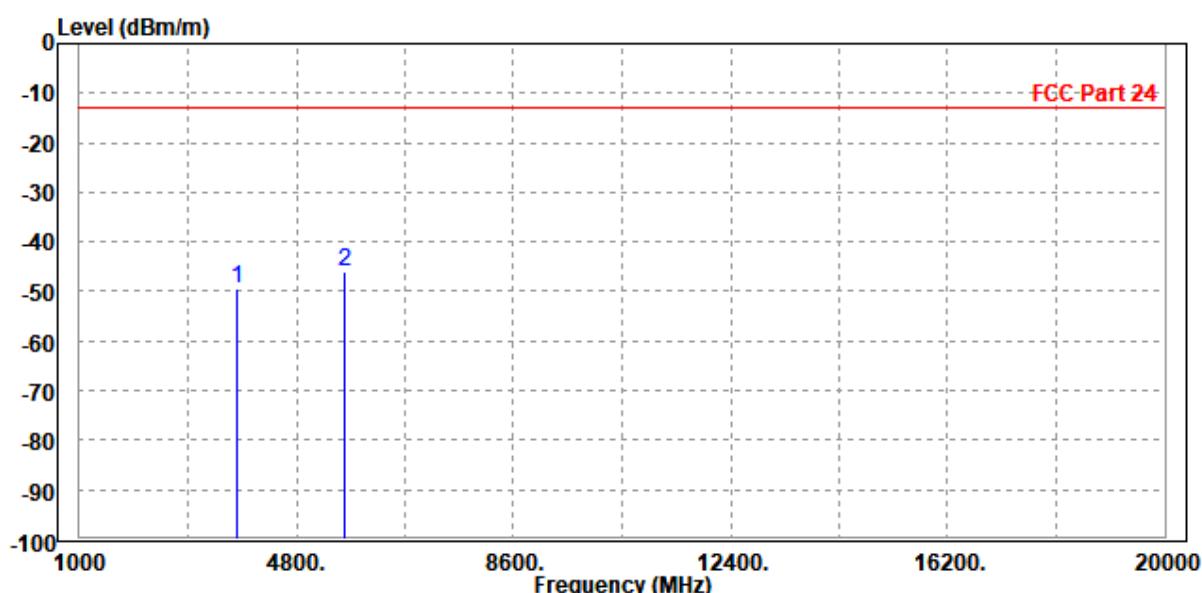


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Read Level	Limit Level	Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-49.28	-57.63	-13.00	-36.28	8.35	Peak	Horizontal
2	PP 5636.000	-45.98	-57.79	-13.00	-32.98	11.81	Peak	Horizontal



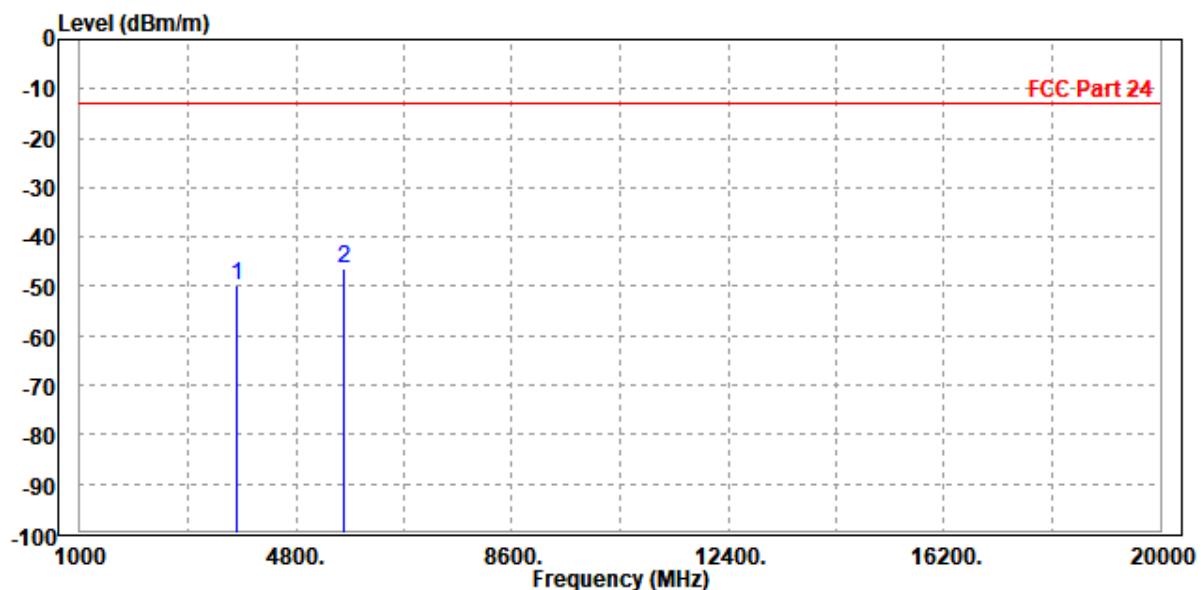
MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Read Level	Limit Level	Over Line	Limit Factor	Over Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.96	-58.59	-13.00	-36.96	8.63	Peak	Vertical
2 PP	5640.000	-46.53	-58.85	-13.00	-33.53	12.32	Peak	Vertical



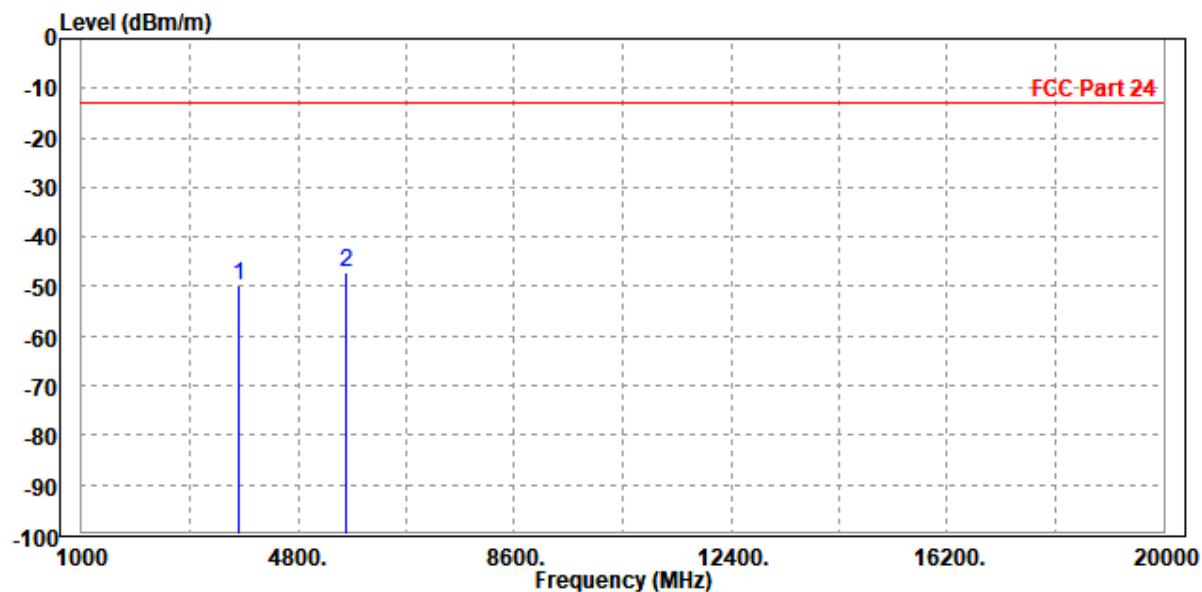


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq	Level	Read	Limit	Over	Remark	Pol/Phase
		Level	Line	Limit Factor		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3755.000	-49.95	-58.31	-13.00	-36.95	8.36 Peak
2	PP 5640.000	-47.15	-58.96	-13.00	-34.15	11.81 Peak

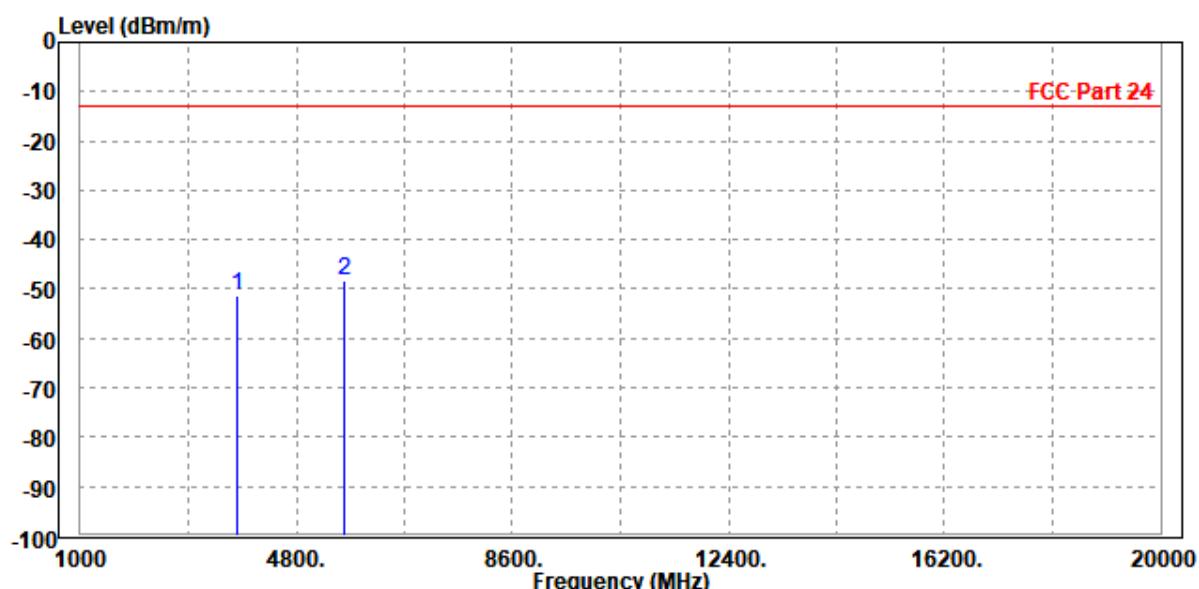




BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Level	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.51	-60.14	-13.00	-38.51	8.63 Peak	Vertical
2	PP 5636.000	-48.31	-60.63	-13.00	-35.31	12.32 Peak	Vertical



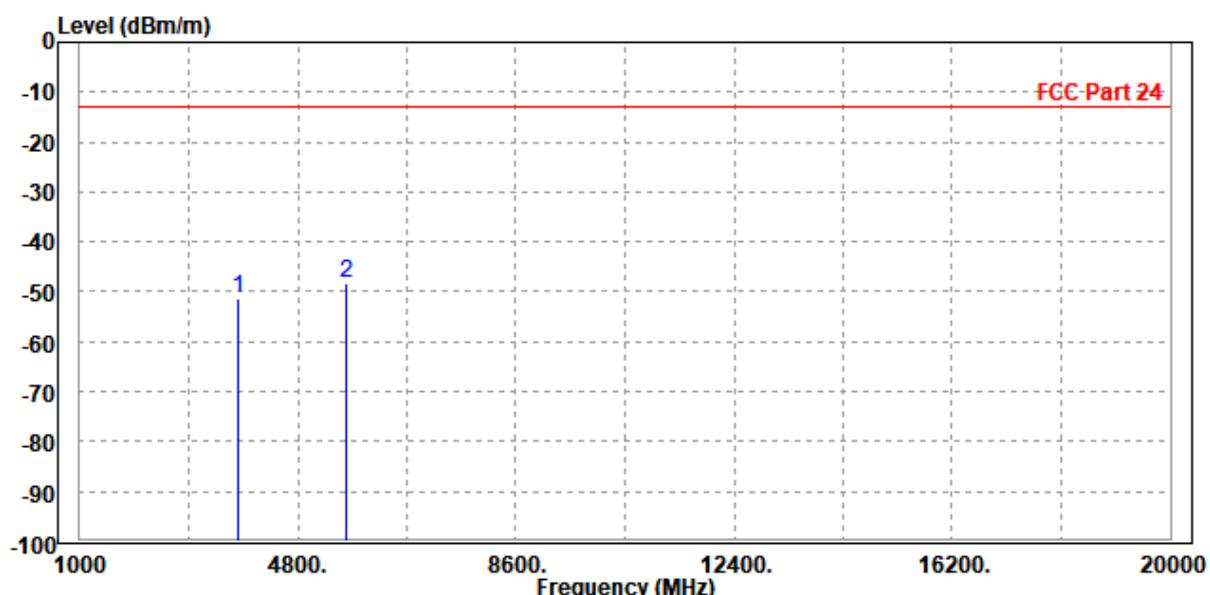


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

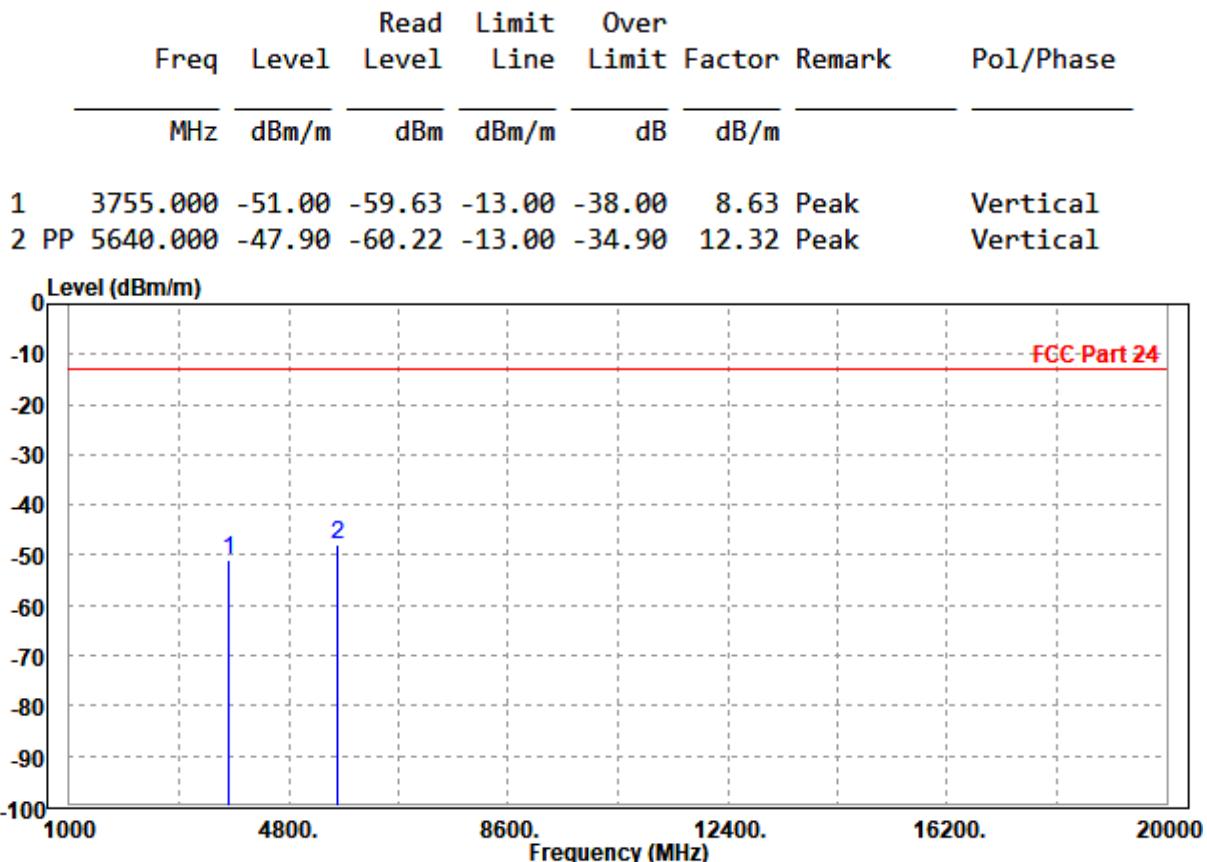
	Freq	Read Level	Limit Level	Over Line	Limit Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.000	-51.44	-59.79	-13.00	-38.44	8.35 Peak	Horizontal
2 PP	5636.000	-48.37	-60.18	-13.00	-35.37	11.81 Peak	Horizontal





BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			



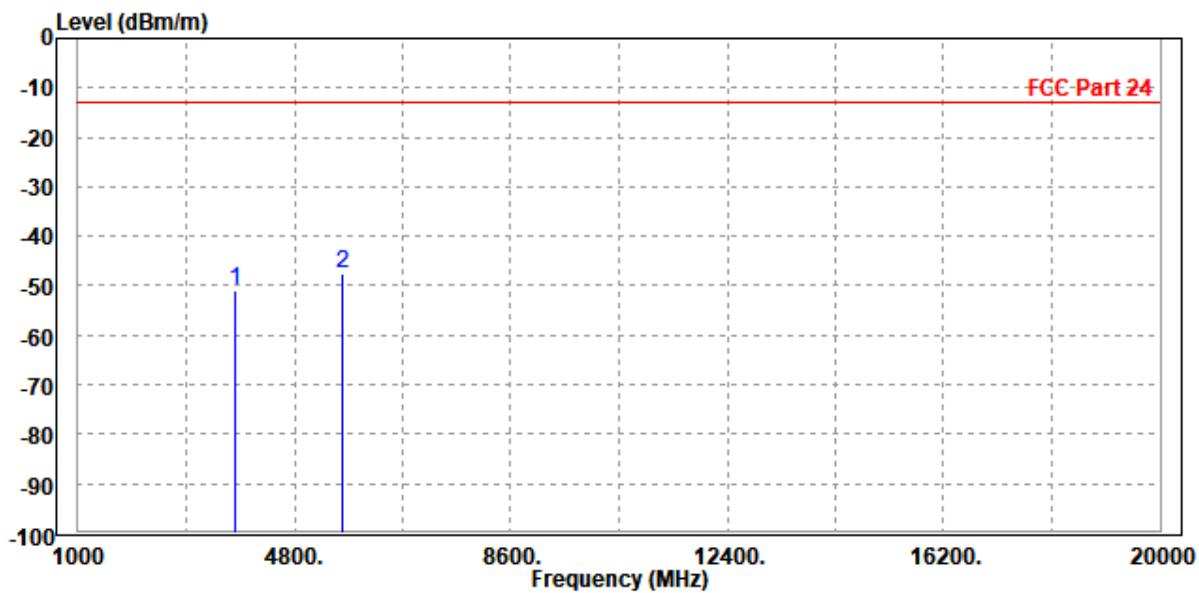


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Freq	Level	Read	Limit	Over	Factor	Remark	Pol/Phase
		Line	Line	Limit			
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.05	-59.41	-13.00	-38.05	8.36 Peak	Horizontal
2	PP 5640.000	-47.37	-59.18	-13.00	-34.37	11.81 Peak	Horizontal



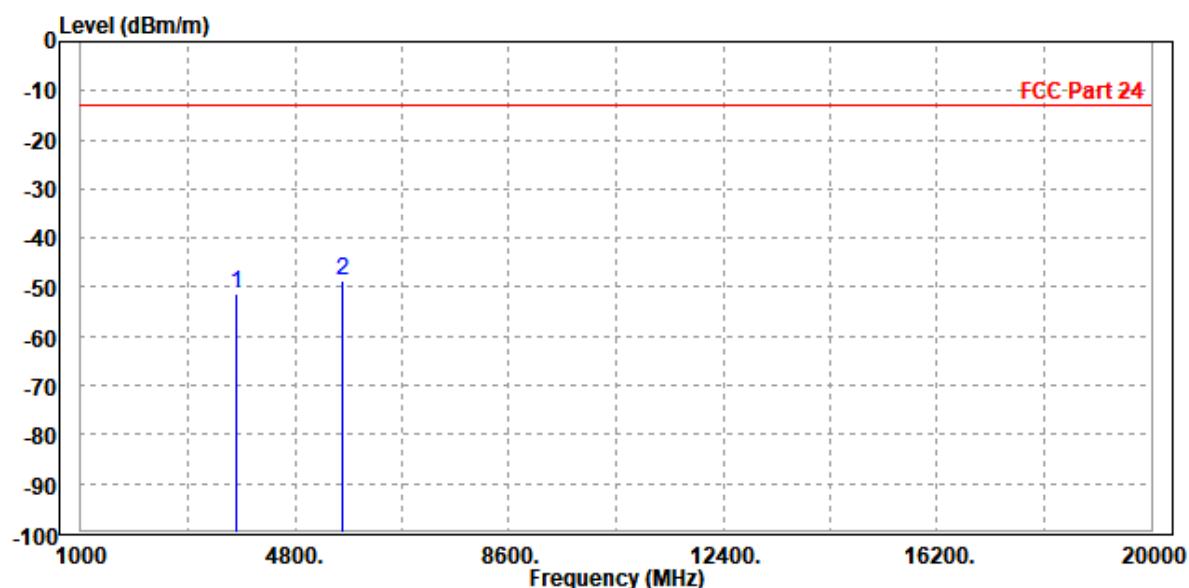


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Read Level	Limit Level	Over Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		

1	3760.000	-51.25	-59.88	-13.00	-38.25	8.63	Peak	Vertical
2	PP 5636.000	-48.48	-60.80	-13.00	-35.48	12.32	Peak	Vertical





### 3.7 RECEIVER SPURIOUS EMISSIONS

#### 3.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Spurious emissions from receivers shall not exceed the radiated emission limits shown in follow table

Frequency(MHz)	Field strength(Uv/m at 3 metres)
30~88	100
88~216	150
216~960	200
Above 960	500

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).



### 3.7.2 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from  $20\log(\text{dwell time}/100 \text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit.
5. All modes of operation were investigated and the worst-case emissions are reported.

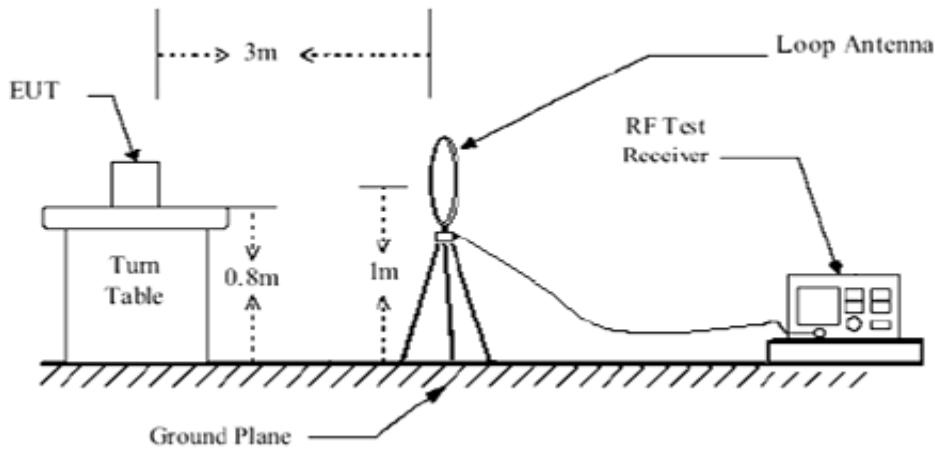
### 3.7.3 DEVIATION FROM TEST STANDARD

No deviation

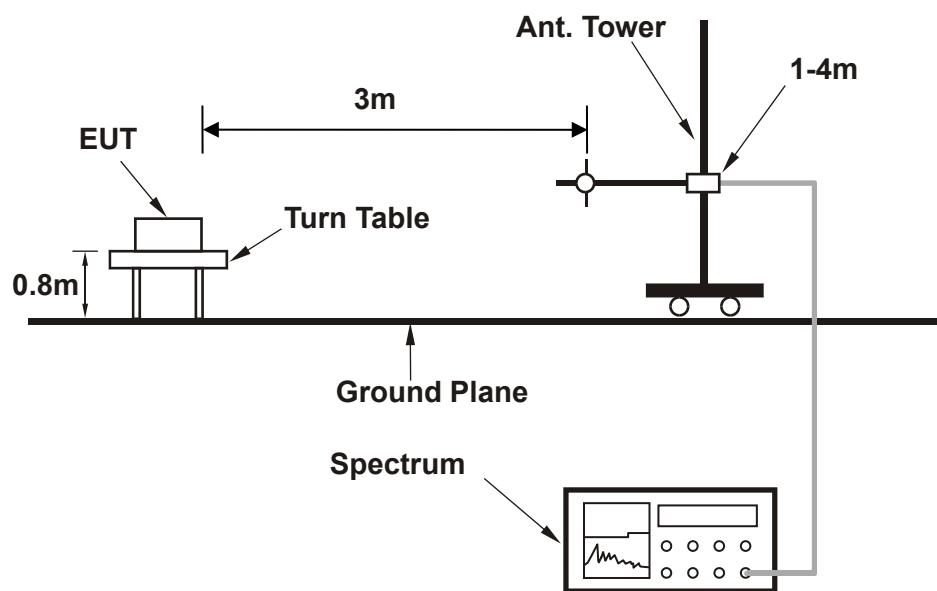


### 3.7.4 TEST SETUP

#### < Frequency Range below 30MHz >

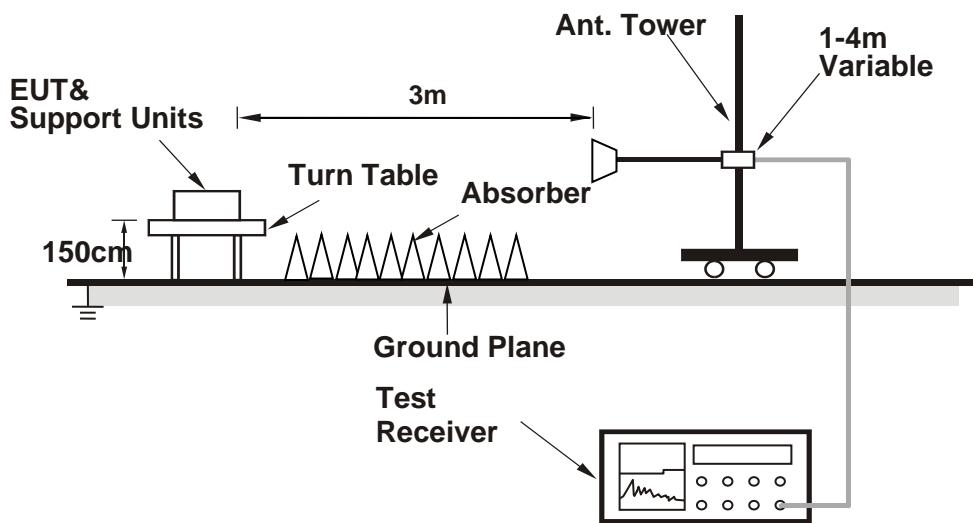


#### < Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



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

### 3.7.5 TEST RESULT

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

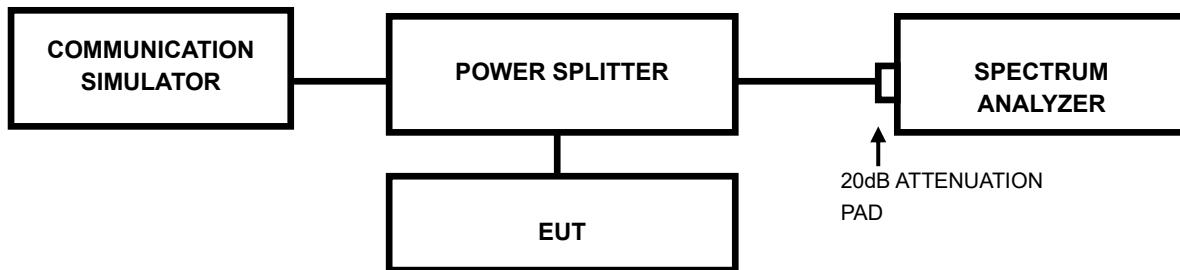


## 3.8 PEAK TO AVERAGE RATIO

### 3.8.1 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

### 3.8.2 TEST SETUP



### 3.8.3 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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### 3.8.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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## 4 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.

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

Lab Address:

Tower N, Innovation Centre 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, P.R.C.  
Accredited Test Lab Cert 6613.01

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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## 5 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.



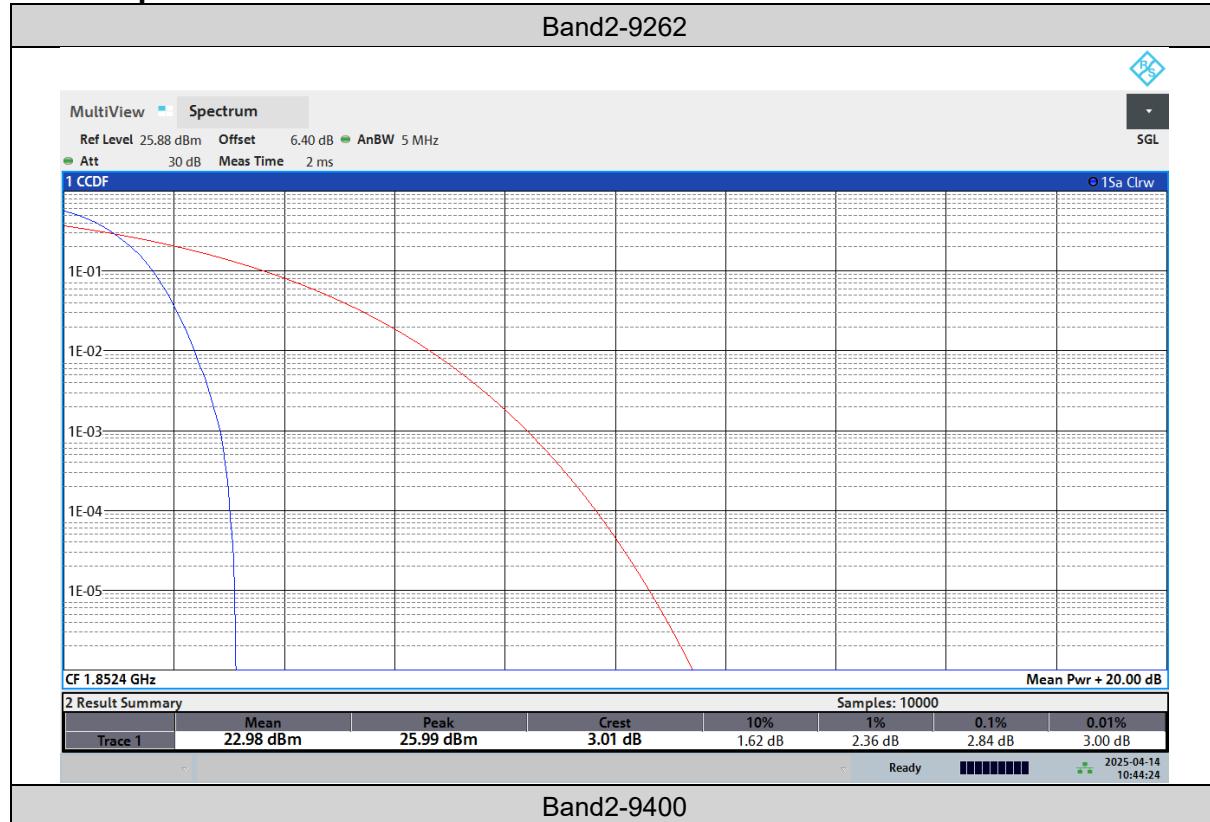
## 6 APPENDIX :

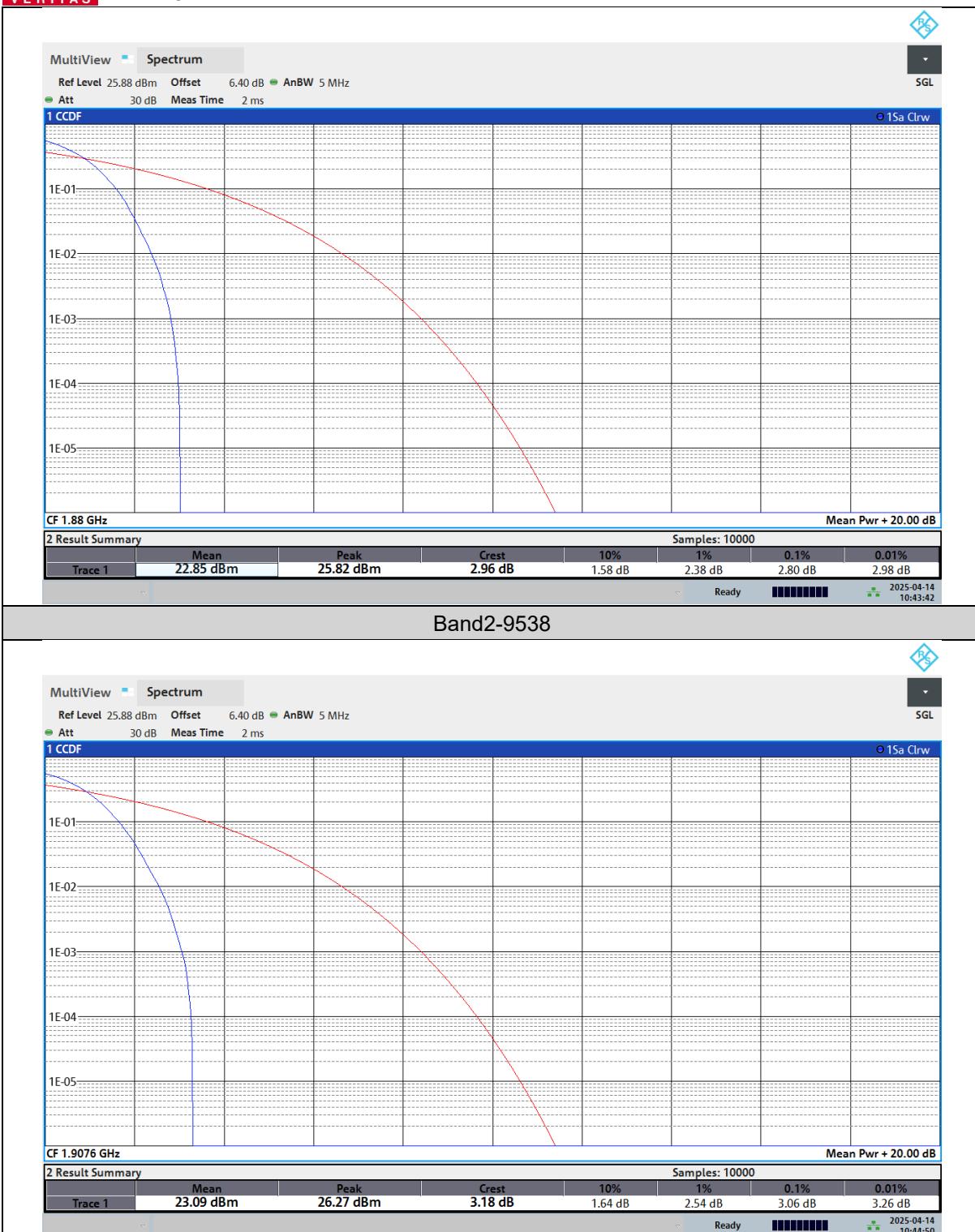
### WCDMA BAND2

#### PEAK-TO-AVERAGE RATIO TEST RESULT

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	2.84	13	PASS
Band2	9400	2.80	13	PASS
Band2	9538	3.06	13	PASS

#### Test Graphs







## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

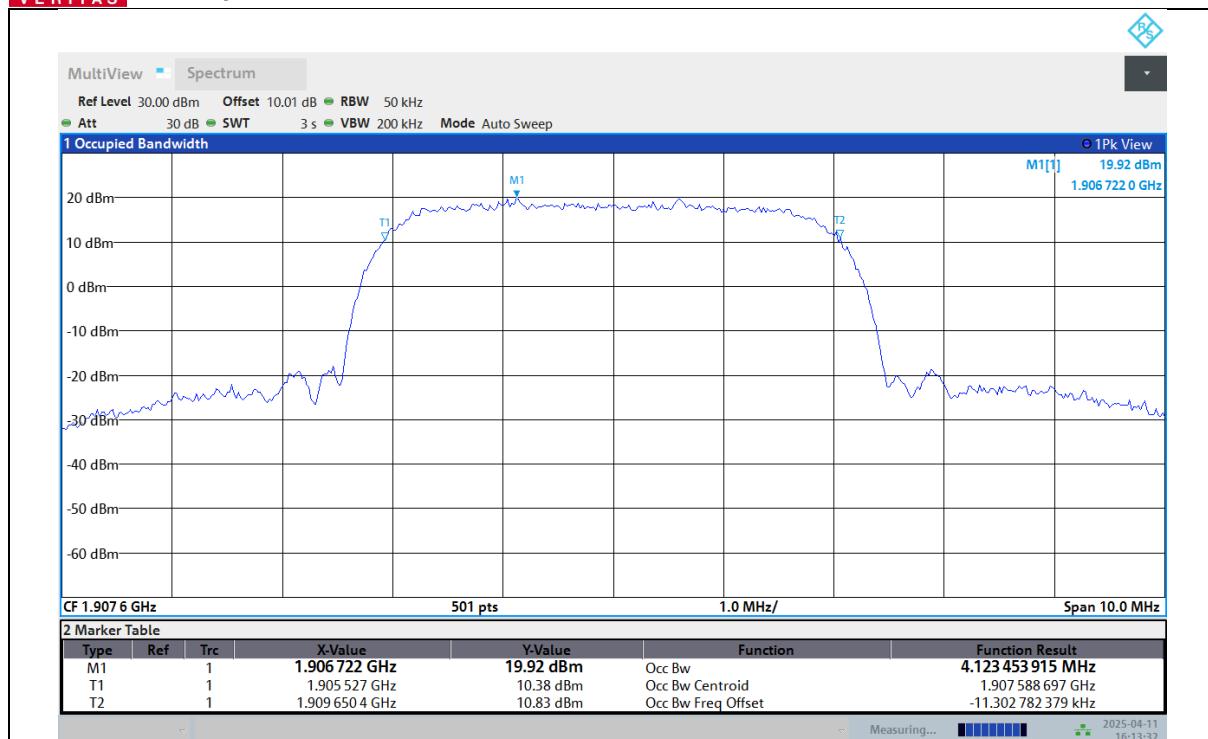
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	9262	4.115	4.71	PASS
Band2	9400	4.126	4.70	PASS
Band2	9538	4.123	4.68	PASS



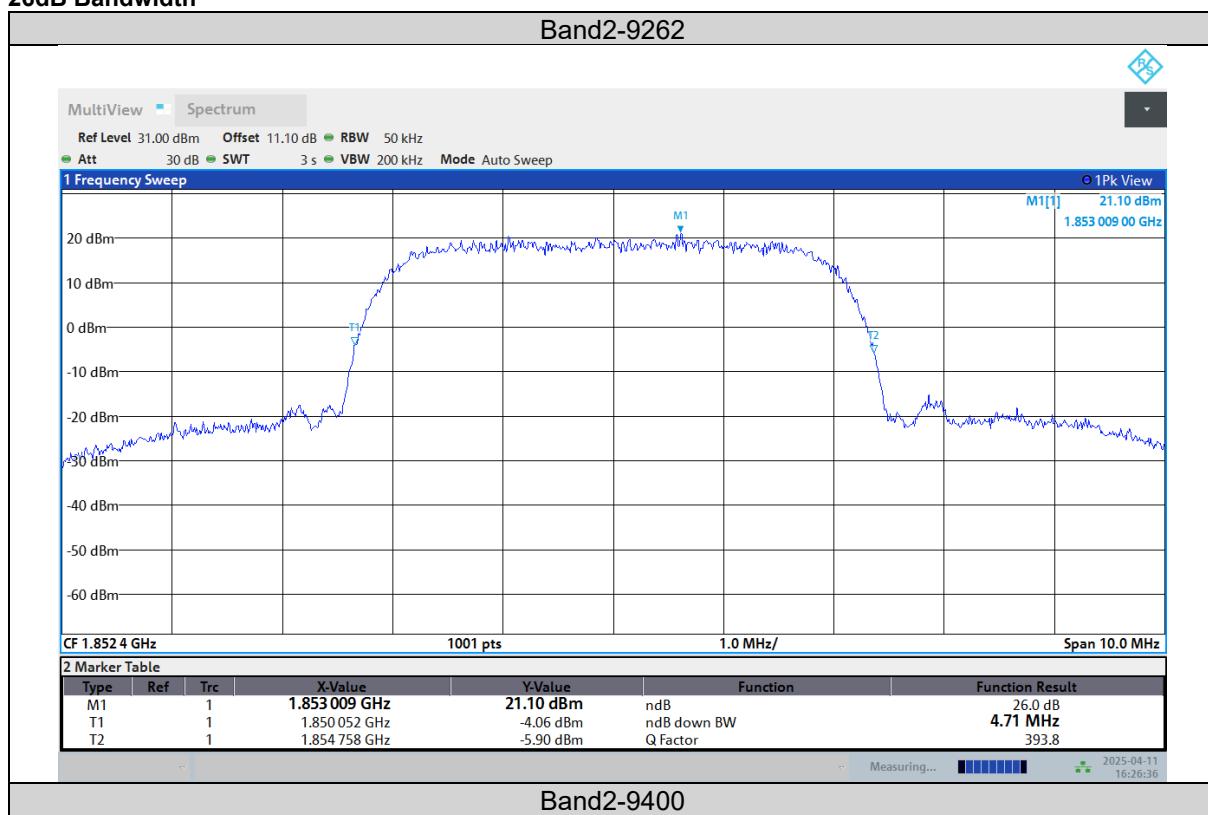
## TEST GRAPHS

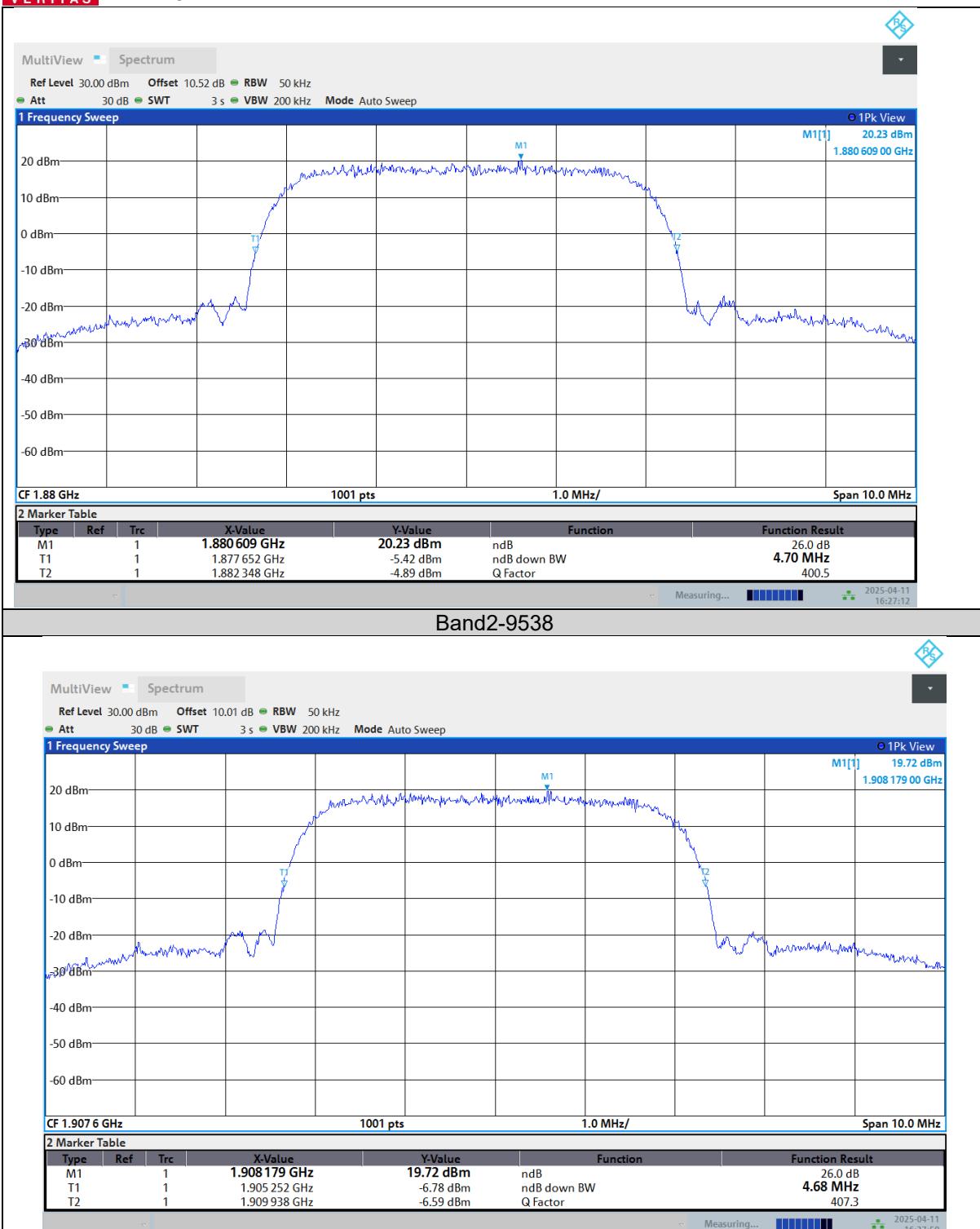
## Occupied Bandwidth





## 26dB Bandwidth



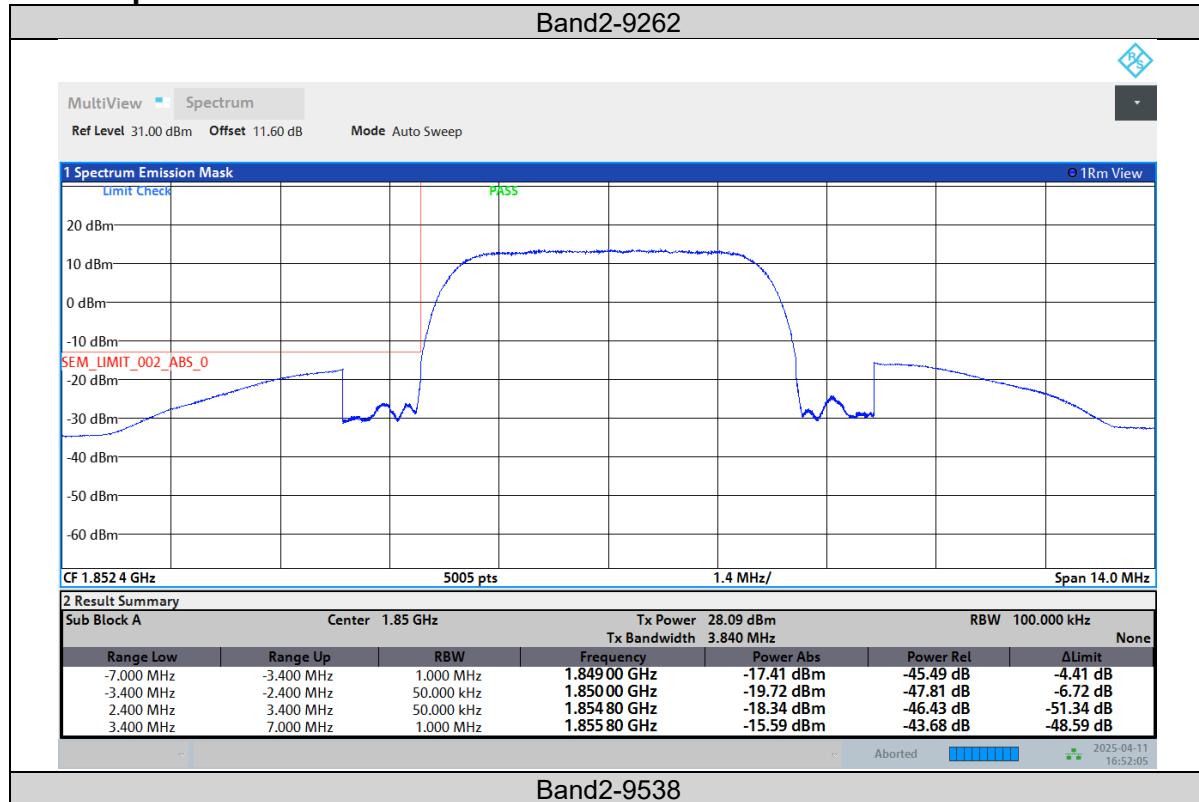




## BAND EDGE TEST RESULT

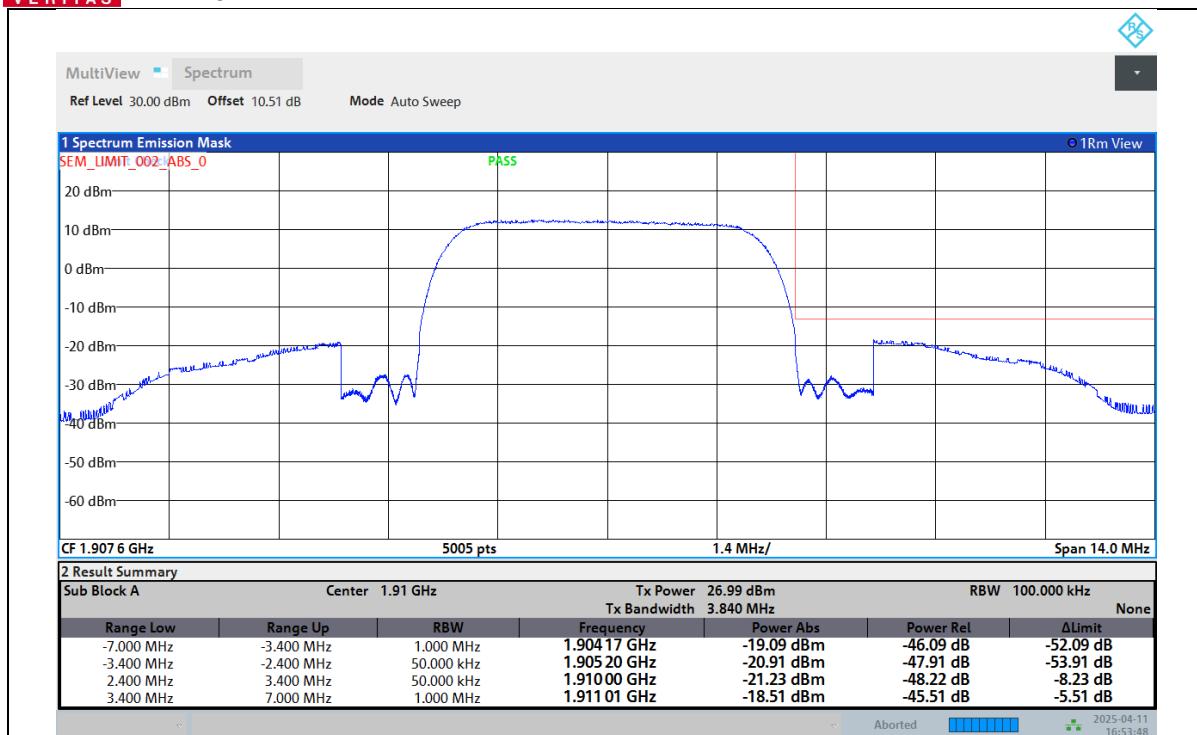
Band	Channel	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	See Graph	-13	PASS
Band2	9538	See Graph	-13	PASS

### Test Graphs





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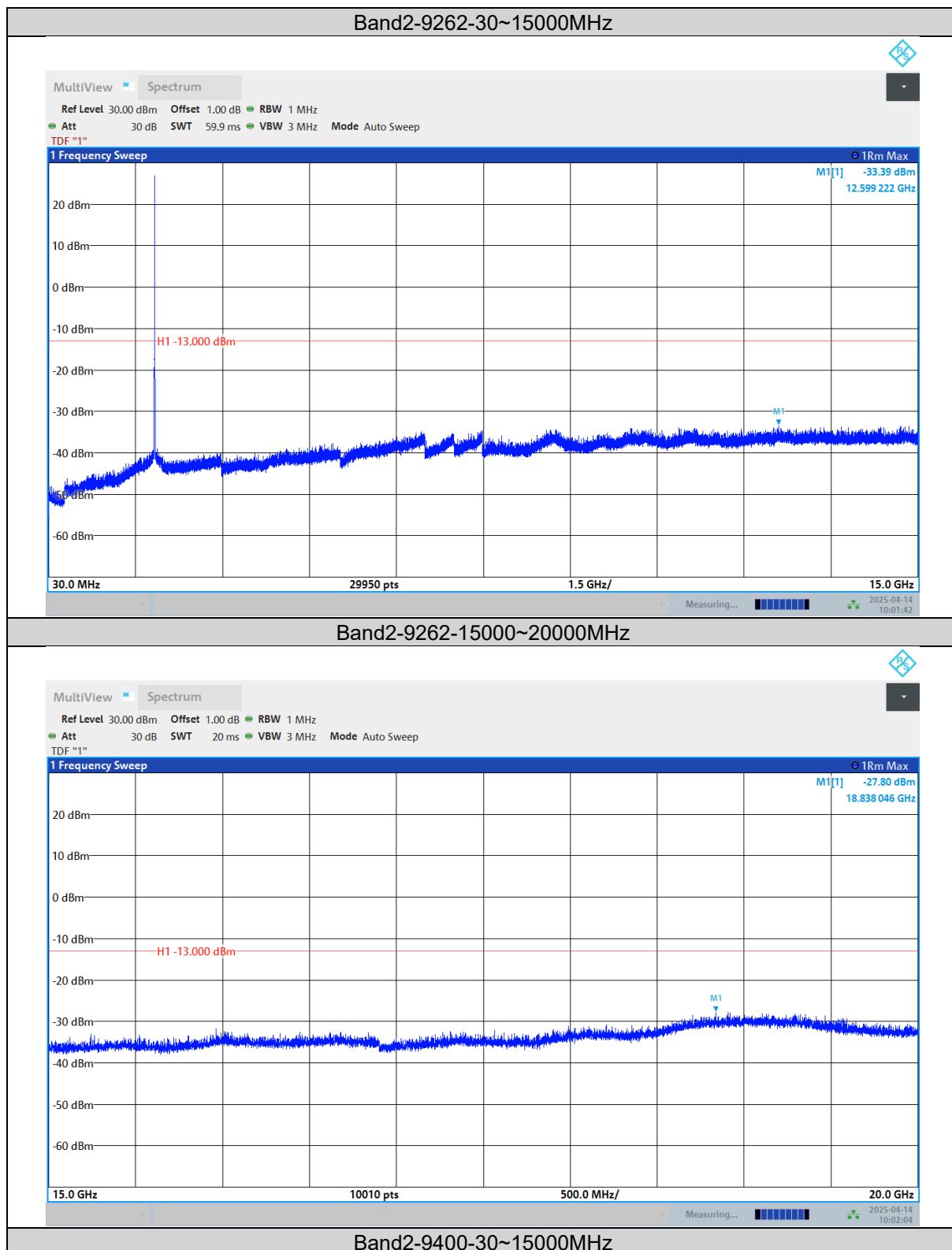
BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

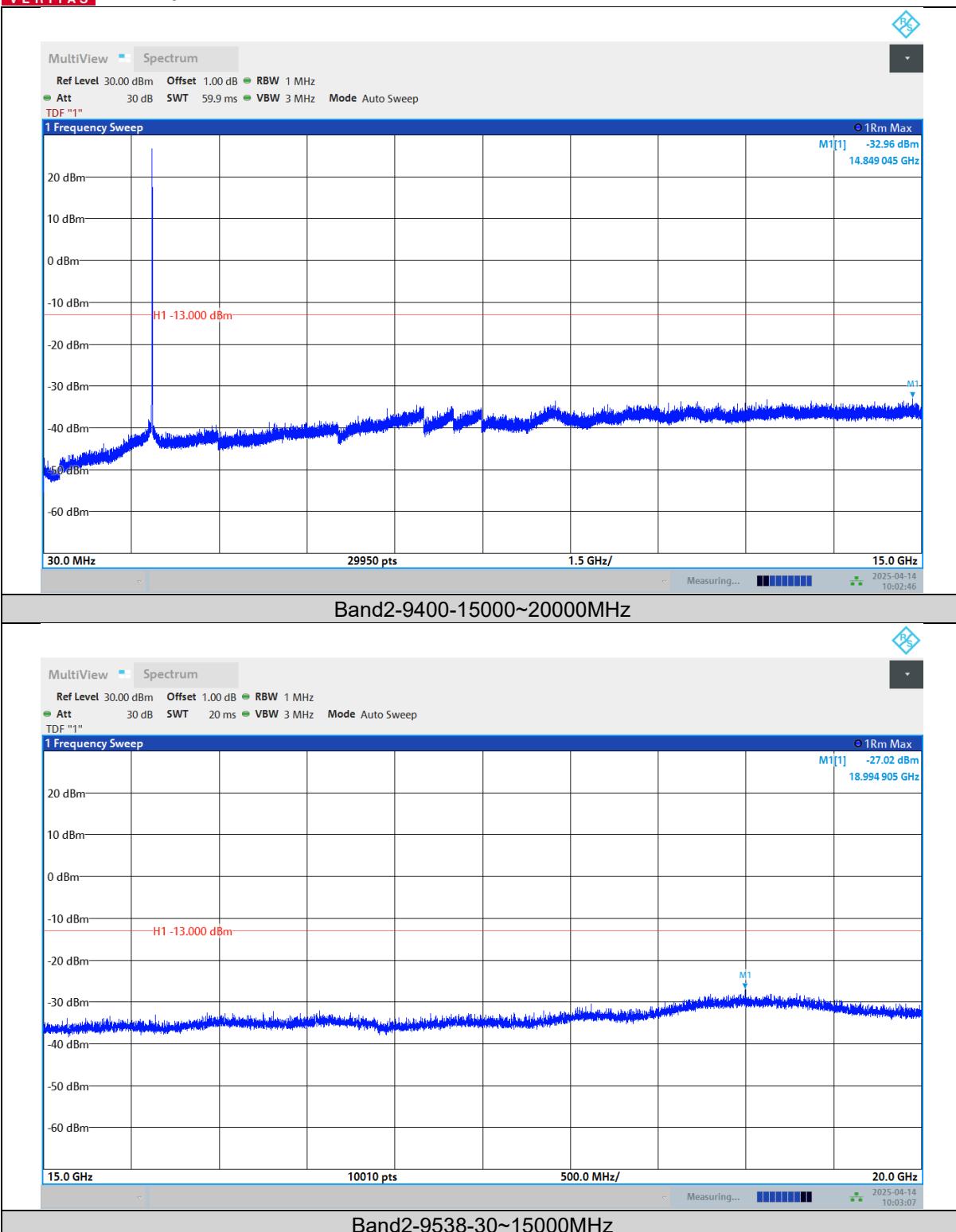
## CONDUCTED SPURIOUS EMISSION TEST RESULT

Band	Channel	Frequency Range (Mhz)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	30~15000MHz	See Graph	-13	PASS
Band2	9262	15000~20000MHz	See Graph	-13	PASS
Band2	9400	30~15000MHz	See Graph	-13	PASS
Band2	9400	15000~20000MHz	See Graph	-13	PASS
Band2	9538	30~15000MHz	See Graph	-13	PASS
Band2	9538	15000~20000MHz	See Graph	-13	PASS



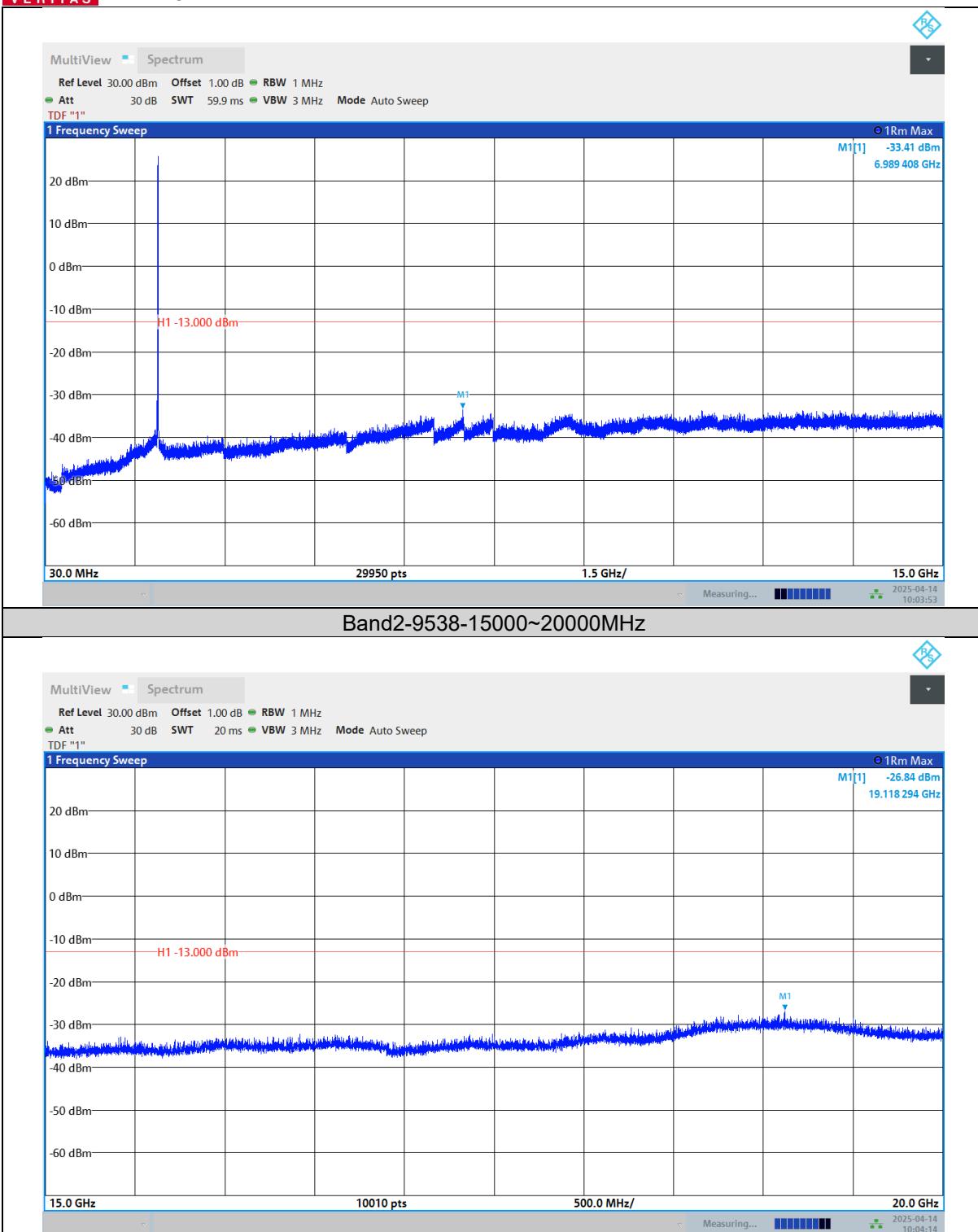
## TEST GRAPHS







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VERITAS Test Report No.: PSU-QSU2503280115RI02



**FREQUENCY STABILITY****TEST RESULT**

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9262	VL	NT	-45.39	-0.0245	PASS
Band2	9262	VN	NT	-15.34	-0.0083	PASS
Band2	9262	VH	NT	-7.25	-0.0039	PASS
Band2	9400	VL	NT	-15.65	-0.0083	PASS
Band2	9400	VN	NT	-11.99	-0.0064	PASS
Band2	9400	VH	NT	-38.83	-0.0207	PASS
Band2	9538	VL	NT	-42.41	-0.0222	PASS
Band2	9538	VN	NT	-44.53	-0.0233	PASS
Band2	9538	VH	NT	-48.24	-0.0253	PASS

Band	Channel	Voltage (Vdc)	Temperatur e (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	9262	NV	-30	-7.80	-0.0042	PASS
Band2	9262	NV	-20	-8.53	-0.0046	PASS
Band2	9262	NV	-10	6.66	0.0036	PASS
Band2	9262	NV	0	-11.09	-0.0060	PASS
Band2	9262	NV	10	-11.60	-0.0063	PASS
Band2	9262	NV	20	-11.22	-0.0061	PASS
Band2	9262	NV	30	-14.79	-0.0080	PASS
Band2	9262	NV	40	-19.17	-0.0103	PASS
Band2	9262	NV	50	-28.05	-0.0151	PASS
Band2	9400	NV	-30	-10.56	-0.0056	PASS
Band2	9400	NV	-20	-32.47	-0.0173	PASS
Band2	9400	NV	-10	-49.76	-0.0265	PASS
Band2	9400	NV	0	-29.99	-0.0160	PASS
Band2	9400	NV	10	-40.59	-0.0216	PASS
Band2	9400	NV	20	-24.19	-0.0129	PASS
Band2	9400	NV	30	-18.45	-0.0098	PASS
Band2	9400	NV	40	-27.62	-0.0147	PASS
Band2	9400	NV	50	-8.91	-0.0047	PASS
Band2	9538	NV	-30	-41.45	-0.0217	PASS
Band2	9538	NV	-20	-31.18	-0.0163	PASS
Band2	9538	NV	-10	-20.53	-0.0108	PASS
Band2	9538	NV	0	-48.44	-0.0254	PASS
Band2	9538	NV	10	1.01	0.0005	PASS
Band2	9538	NV	20	-34.37	-0.0180	PASS
Band2	9538	NV	30	-0.16	-0.0001	PASS
Band2	9538	NV	40	-18.13	-0.0095	PASS
Band2	9538	NV	50	-39.45	-0.0207	PASS

**MAX Deviation calculation**



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L -  \text{MAX}(\Delta f) $	1850.342450	$\geq 1850$	PASS
$f_H +  \text{MAX}(\Delta f) $	1909.661550	$\leq 1910$	

- Note:
1.  $|\text{MAX}(\Delta f)|$  = Max Deviation
  2.  $f_L$  = Occ low channel  $f_l(-13\text{dBm}/\text{MHz})$
  3.  $f_H$  = Occ High channel  $f_h(-13\text{dBm}/\text{MHz})$
  4.  $|\text{MAX}(\Delta f)| = 49.76 \text{ Hz}$ .

**LTE BAND25 (INCLUDING LTE B2)****PEAK-TO-AVERAGE RATIO(CCDF)  
TEST RESULT**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	4.06	13	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	4.66	13	PASS
Band25	1.4MHz	QPSK	26340	1RB#0	3.92	13	PASS
Band25	1.4MHz	QPSK	26340	6RB#0	4.56	13	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	4.86	13	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	5.62	13	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	5.06	13	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	5.60	13	PASS
Band25	1.4MHz	16QAM	26340	1RB#0	4.86	13	PASS
Band25	1.4MHz	16QAM	26340	6RB#0	6.50	13	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	6.02	13	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	6.50	13	PASS
Band25	3MHz	QPSK	26055	1RB#0	4.02	13	PASS
Band25	3MHz	QPSK	26055	15RB#0	4.58	13	PASS
Band25	3MHz	QPSK	26340	1RB#0	4.12	13	PASS
Band25	3MHz	QPSK	26340	15RB#0	4.64	13	PASS
Band25	3MHz	QPSK	26675	1RB#0	4.80	13	PASS
Band25	3MHz	QPSK	26675	15RB#0	5.68	13	PASS
Band25	3MHz	16QAM	26055	1RB#0	5.14	13	PASS
Band25	3MHz	16QAM	26055	15RB#0	5.42	13	PASS
Band25	3MHz	16QAM	26340	1RB#0	4.94	13	PASS
Band25	3MHz	16QAM	26340	15RB#0	5.48	13	PASS
Band25	3MHz	16QAM	26675	1RB#0	5.90	13	PASS
Band25	3MHz	16QAM	26675	15RB#0	6.56	13	PASS
Band25	5MHz	QPSK	26065	1RB#0	4.12	13	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.64	13	PASS
Band25	5MHz	QPSK	26340	1RB#0	4.10	13	PASS
Band25	5MHz	QPSK	26340	25RB#0	4.62	13	PASS
Band25	5MHz	QPSK	26665	1RB#0	4.92	13	PASS
Band25	5MHz	QPSK	26665	25RB#0	5.64	13	PASS
Band25	5MHz	16QAM	26065	1RB#0	4.96	13	PASS
Band25	5MHz	16QAM	26065	25RB#0	5.42	13	PASS
Band25	5MHz	16QAM	26340	1RB#0	5.14	13	PASS
Band25	5MHz	16QAM	26340	25RB#0	5.48	13	PASS
Band25	5MHz	16QAM	26665	1RB#0	5.20	13	PASS
Band25	5MHz	16QAM	26665	25RB#0	6.54	13	PASS
Band25	10MHz	QPSK	26090	1RB#0	4.022	13	PASS
Band25	10MHz	QPSK	26090	50RB#0	4.66	13	PASS
Band25	10MHz	QPSK	26340	1RB#0	4.14	13	PASS
Band25	10MHz	QPSK	26340	50RB#0	4.58	13	PASS
Band25	10MHz	QPSK	26640	1RB#0	4.14	13	PASS
Band25	10MHz	QPSK	26640	50RB#0	4.96	13	PASS
Band25	10MHz	16QAM	26090	1RB#0	4.88	13	PASS
Band25	10MHz	16QAM	26090	27RB#0	5.22	13	PASS
Band25	10MHz	16QAM	26340	1RB#0	4.88	13	PASS
Band25	10MHz	16QAM	26340	27RB#0	5.36	13	PASS

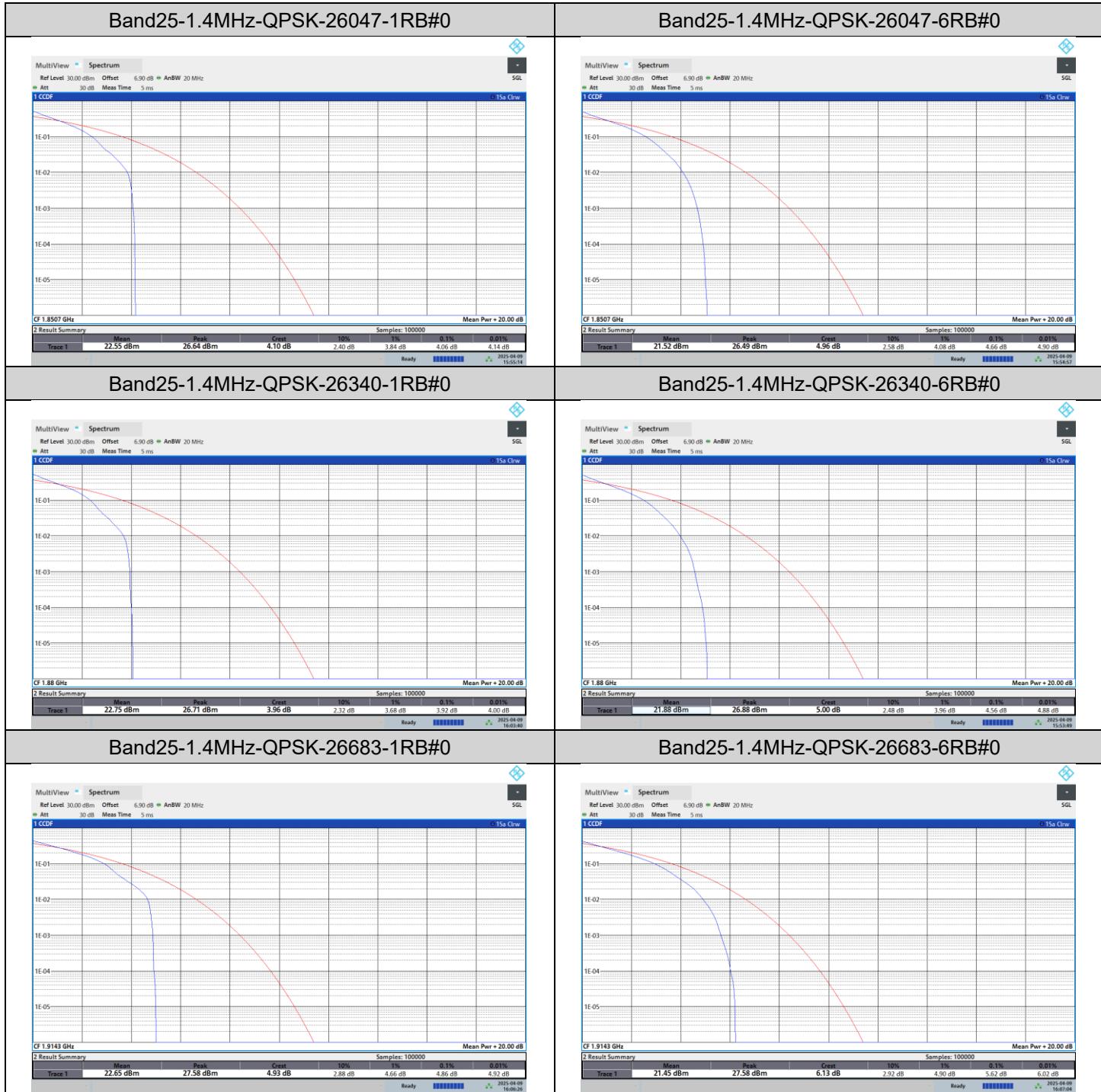


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Band25	10MHz	16QAM	26640	1RB#0	5.02	13	PASS
Band25	10MHz	16QAM	26640	27RB#0	5.34	13	PASS
Band25	15MHz	QPSK	26115	1RB#0	3.98	13	PASS
Band25	15MHz	QPSK	26115	75RB#0	5.04	13	PASS
Band25	15MHz	QPSK	26340	1RB#0	4.92	13	PASS
Band25	15MHz	QPSK	26340	75RB#0	5.50	13	PASS
Band25	15MHz	QPSK	26615	1RB#0	5.04	13	PASS
Band25	15MHz	QPSK	26615	75RB#0	5.62	13	PASS
Band25	15MHz	16QAM	26115	1RB#0	5.02	13	PASS
Band25	15MHz	16QAM	26115	27RB#0	5.28	13	PASS
Band25	15MHz	16QAM	26340	1RB#0	5.74	13	PASS
Band25	15MHz	16QAM	26340	27RB#0	6.14	13	PASS
Band25	15MHz	16QAM	26615	1RB#0	6.06	13	PASS
Band25	15MHz	16QAM	26615	27RB#0	6.24	13	PASS
Band25	20MHz	QPSK	26140	1RB#0	4.42	13	PASS
Band25	20MHz	QPSK	26140	100RB#0	5.42	13	PASS
Band25	20MHz	QPSK	26340	1RB#0	4.96	13	PASS
Band25	20MHz	QPSK	26340	100RB#0	5.22	13	PASS
Band25	20MHz	QPSK	26590	1RB#0	4.98	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	4.78	13	PASS
Band25	20MHz	16QAM	26140	1RB#0	5.56	13	PASS
Band25	20MHz	16QAM	26140	27RB#0	5.80	13	PASS
Band25	20MHz	16QAM	26340	1RB#0	5.84	13	PASS
Band25	20MHz	16QAM	26340	27RB#0	6.18	13	PASS
Band25	20MHz	16QAM	26590	1RB#0	6.00	13	PASS
Band25	20MHz	16QAM	26590	27RB#0	5.50	13	PASS

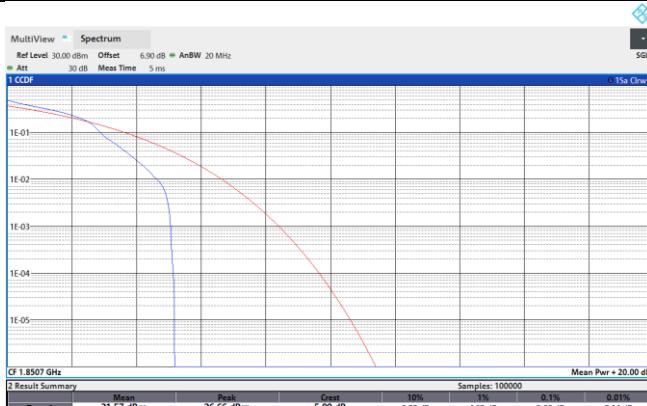


## TEST GRAPHS

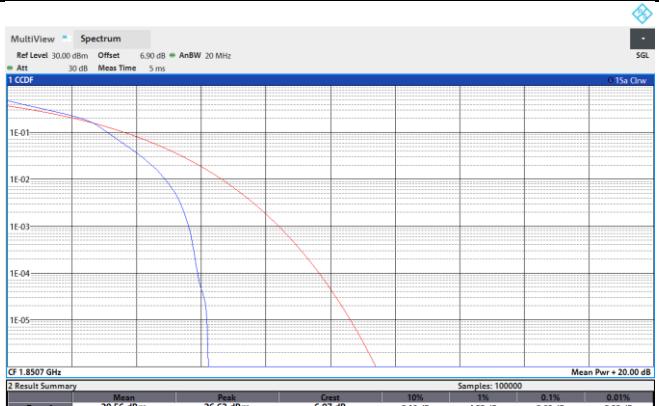




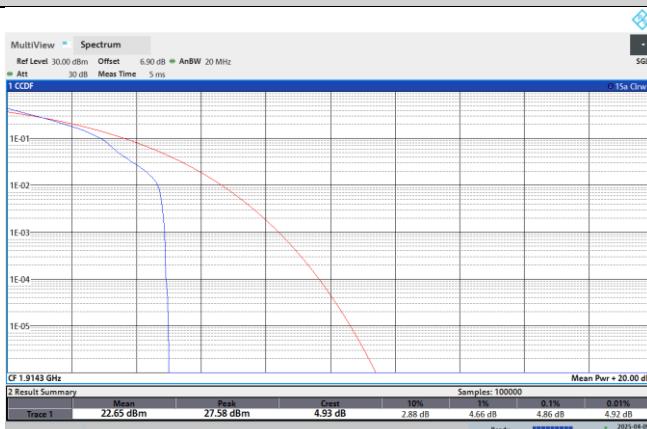
Band25-1.4MHz-16QAM-26047-1RB#0



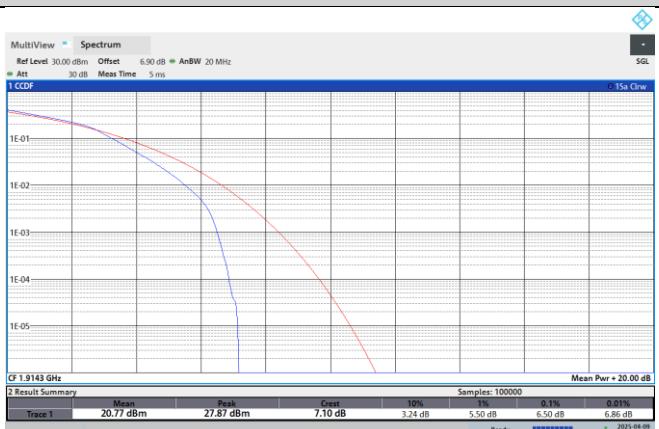
Band25-1.4MHz-16QAM-26047-6RB#0



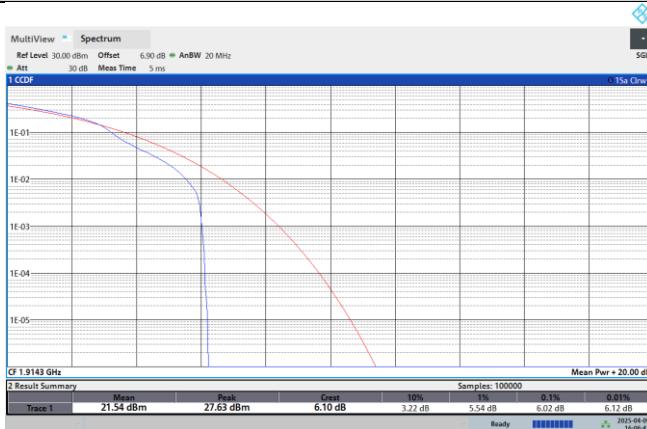
Band25-1.4MHz-16QAM-26340-1RB#0



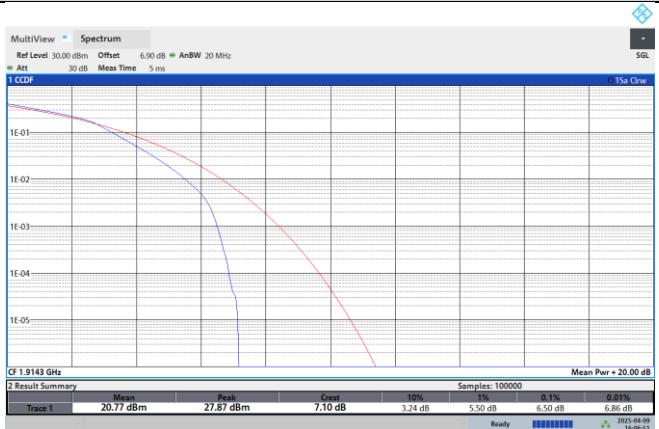
Band25-1.4MHz-16QAM-26340-6RB#0



Band25-1.4MHz-16QAM-26683-1RB#0

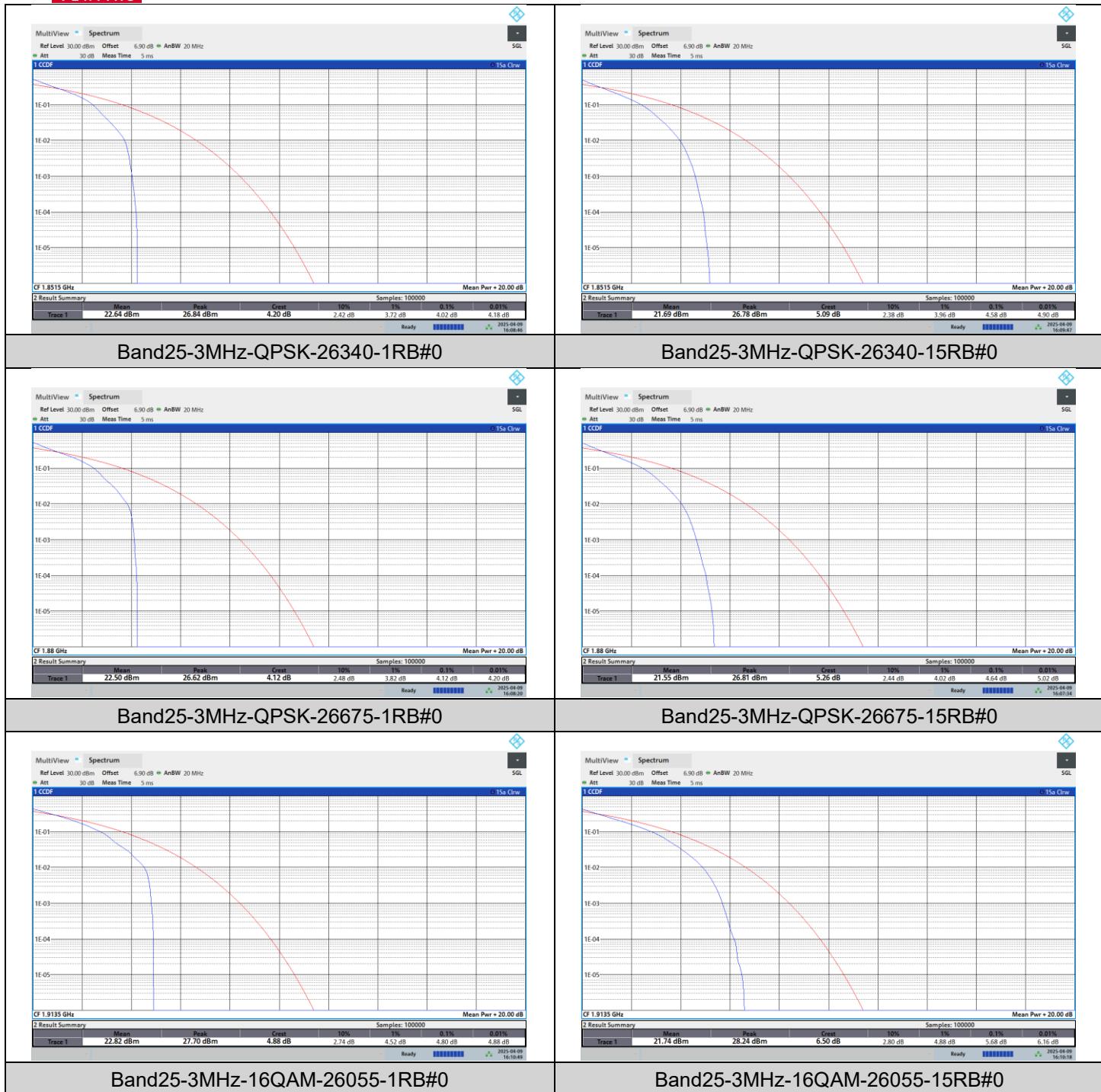


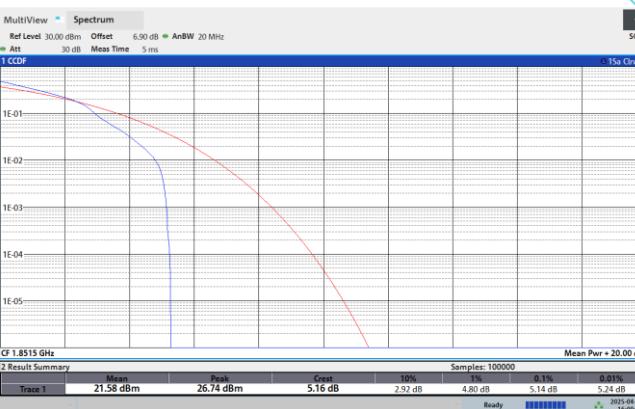
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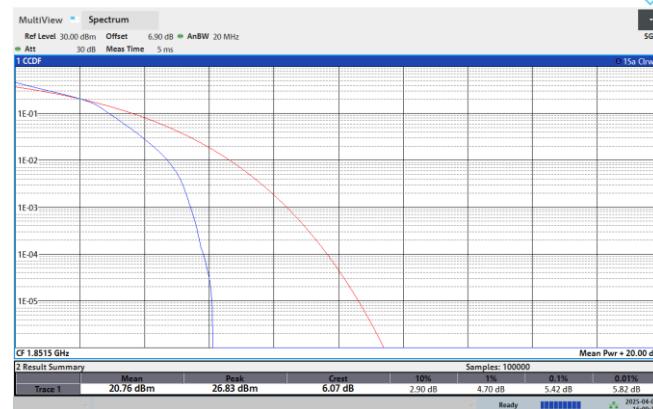
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Band25-3MHz-QPSK-26055-15RB#0

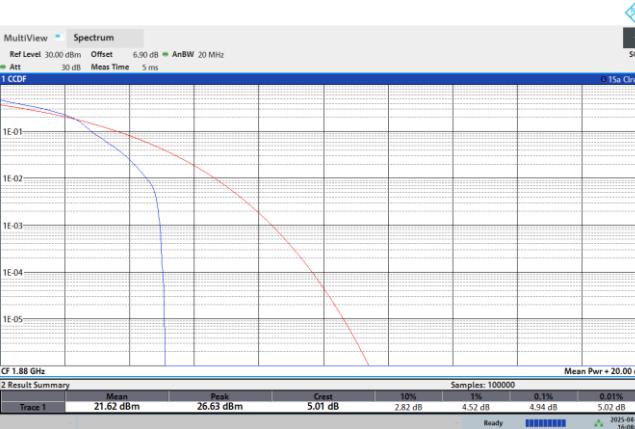




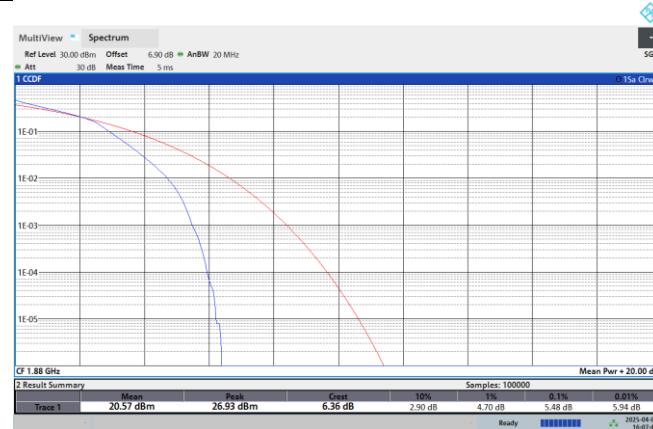
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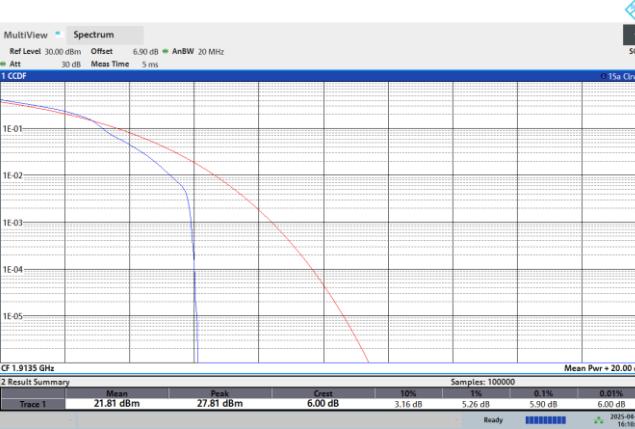
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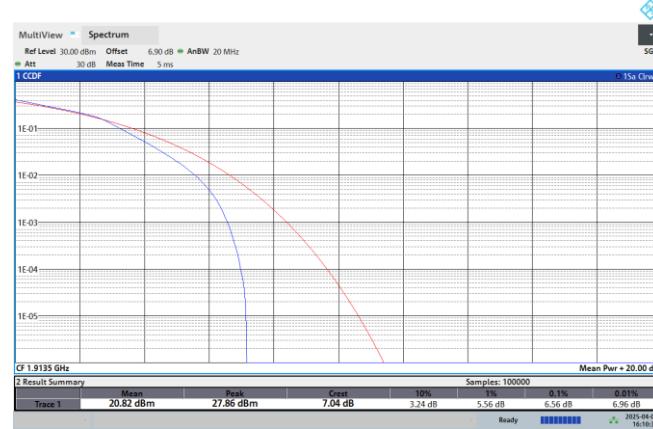
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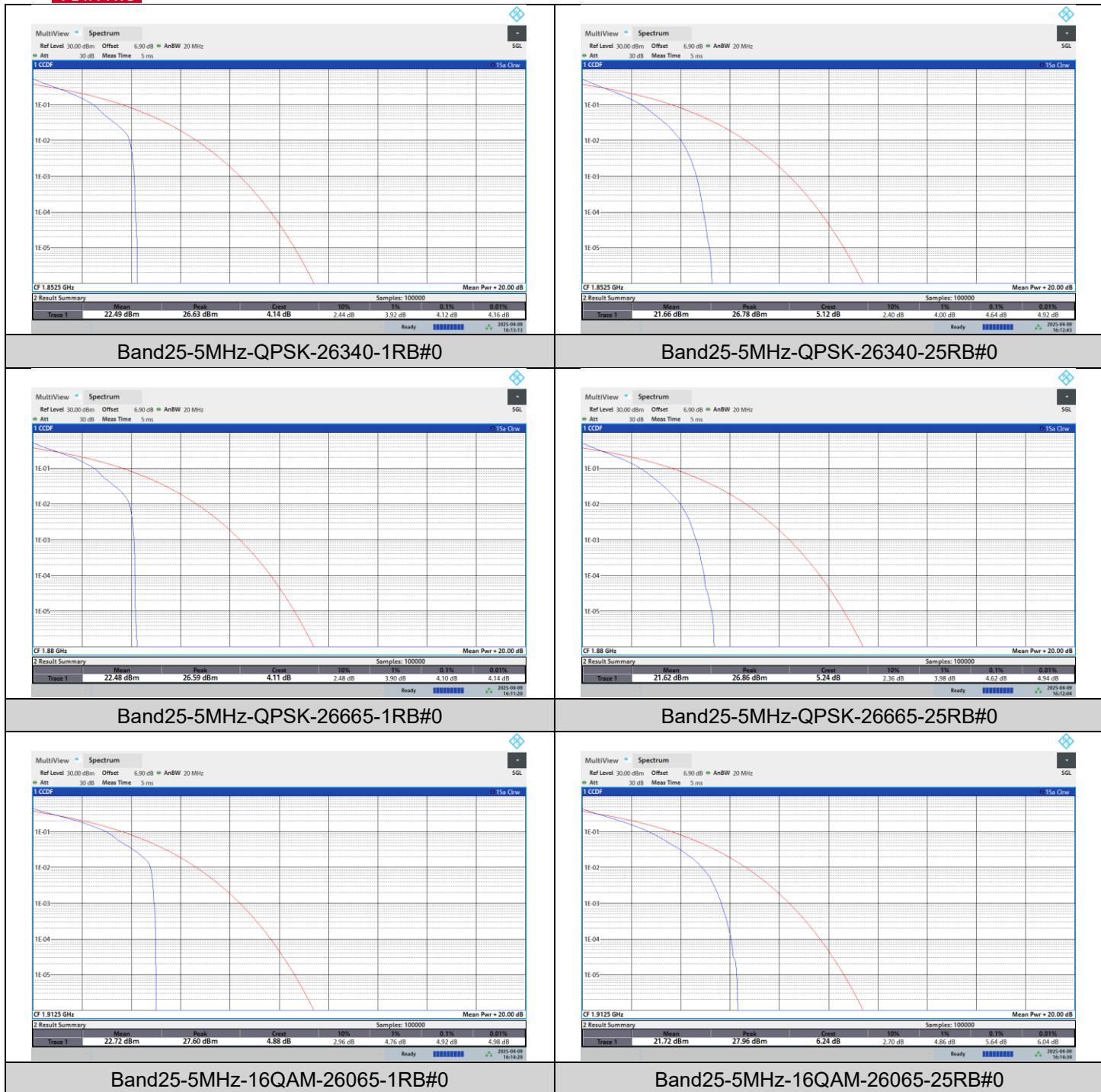
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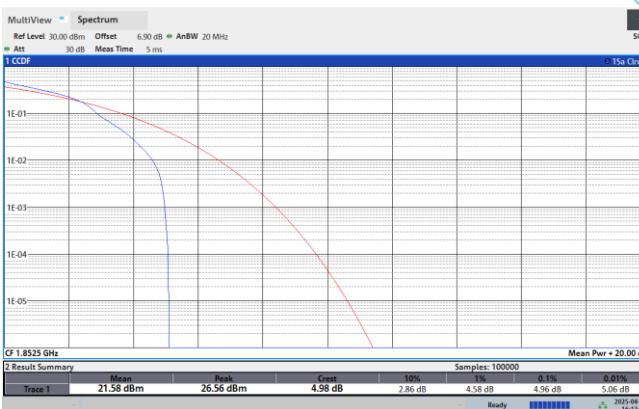


Band25-5MHz-QPSK-26065-1RB#0



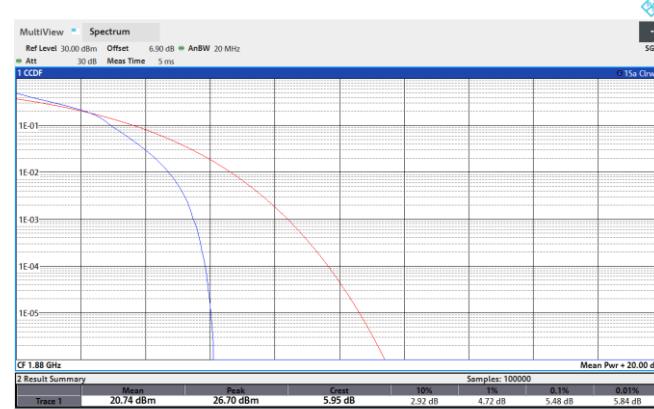
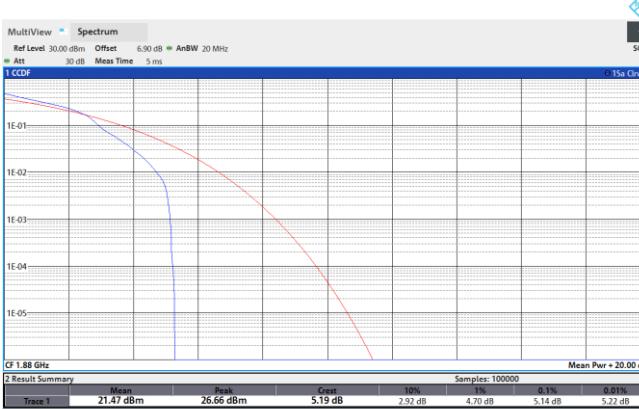
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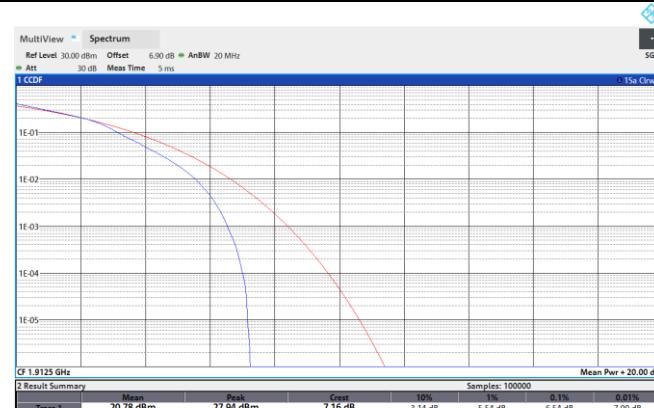
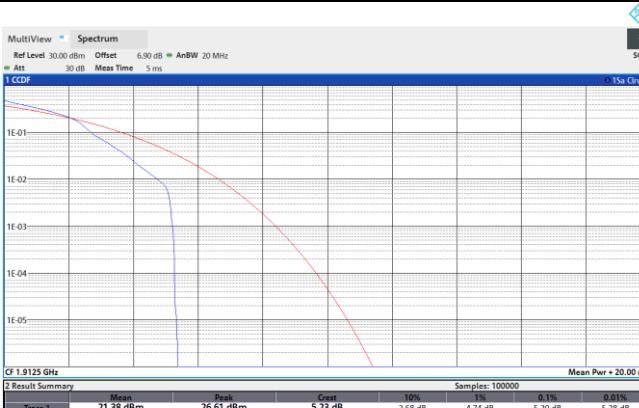
Band25-5MHz-16QAM-26340-1RB#0

Band25-5MHz-16QAM-26340-25RB#0



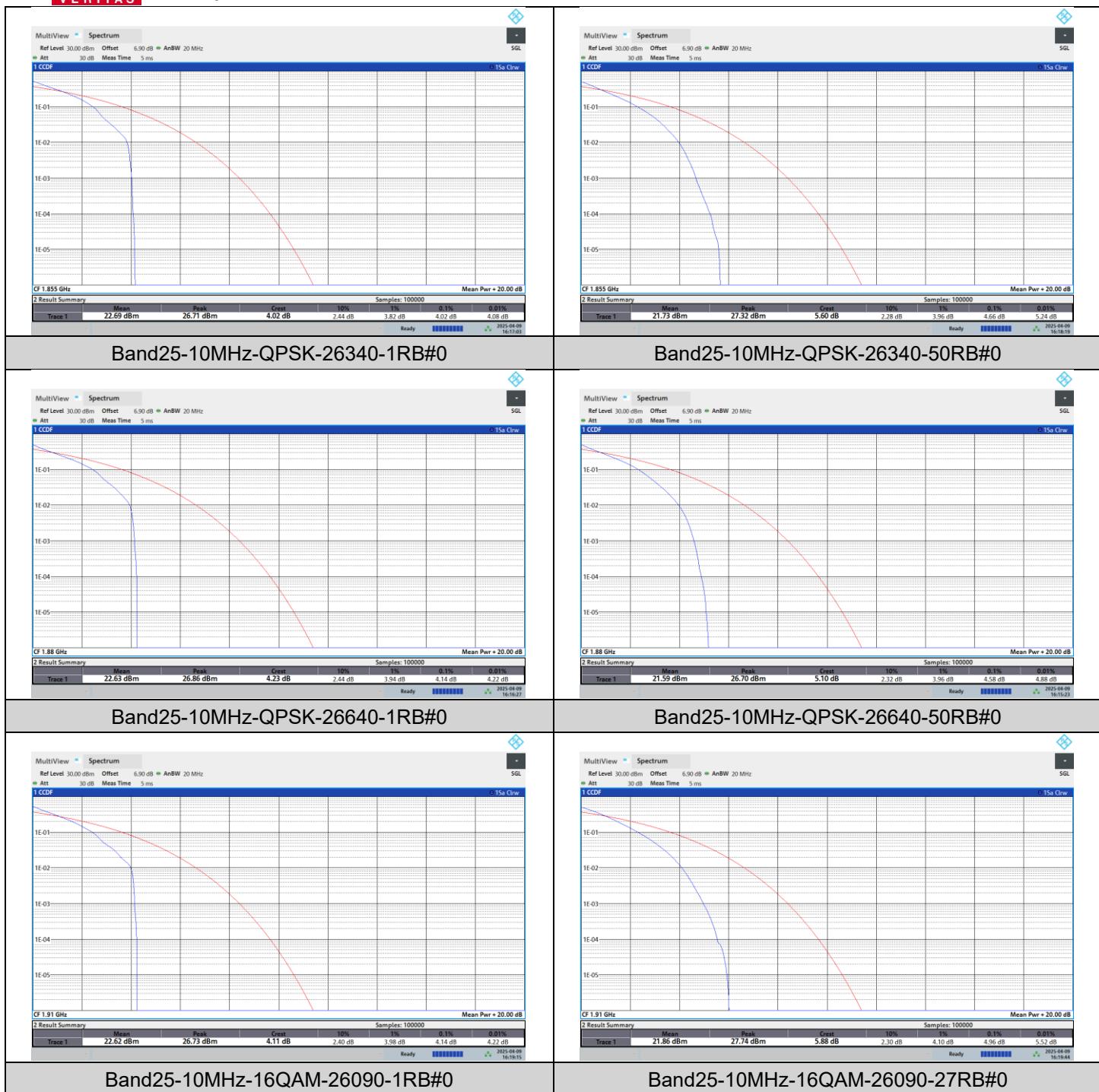
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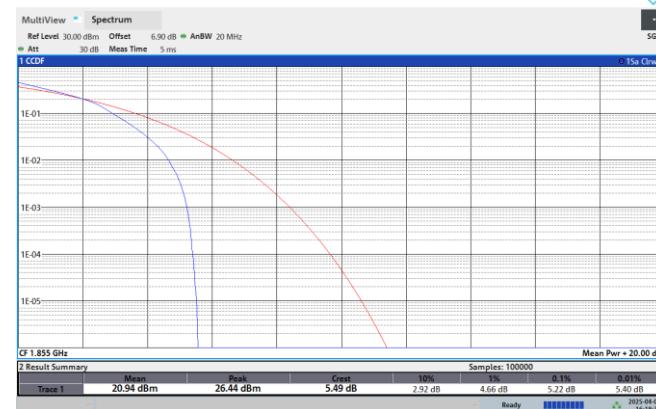
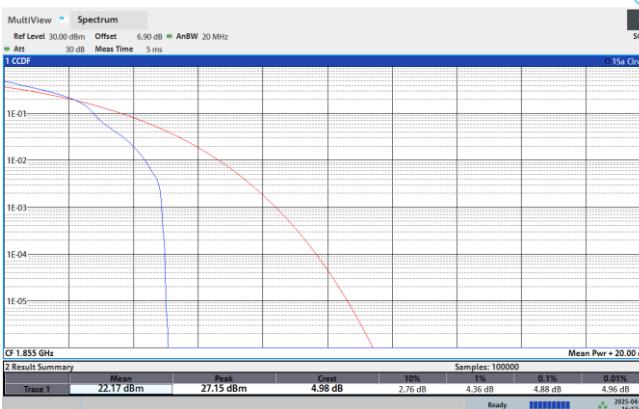
Band25-5MHz-16QAM-26665-25RB#0



Band25-10MHz-QPSK-26090-1RB#0

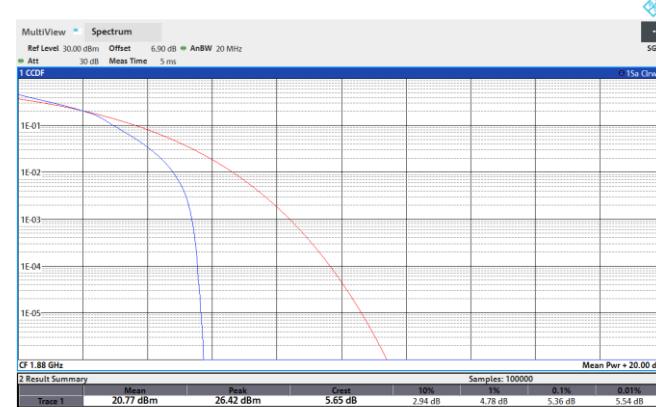
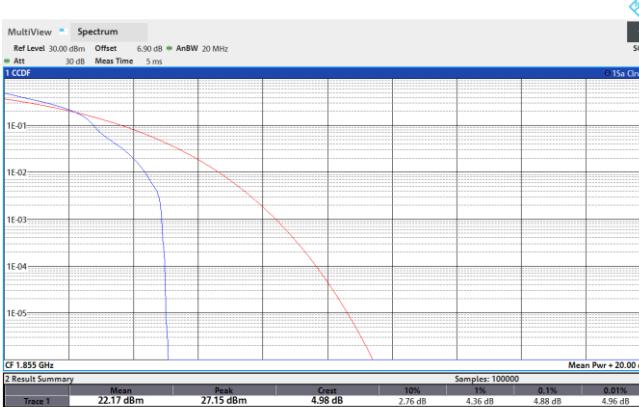
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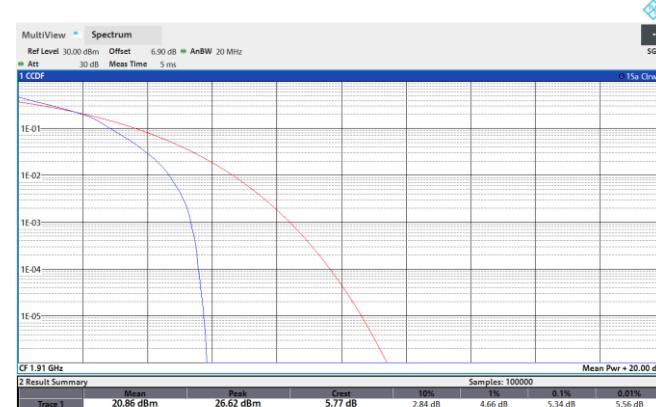
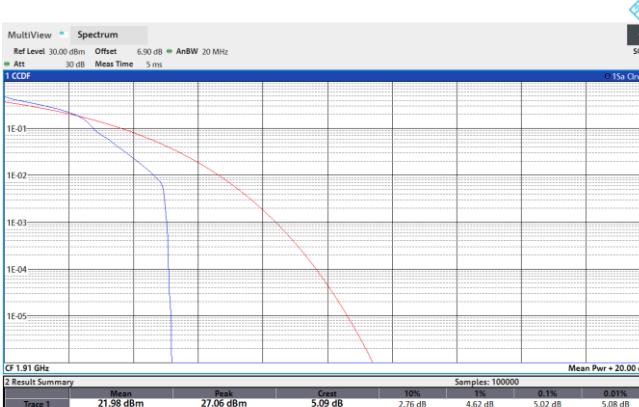
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Band25-10MHz-16QAM-26340-27RB#0



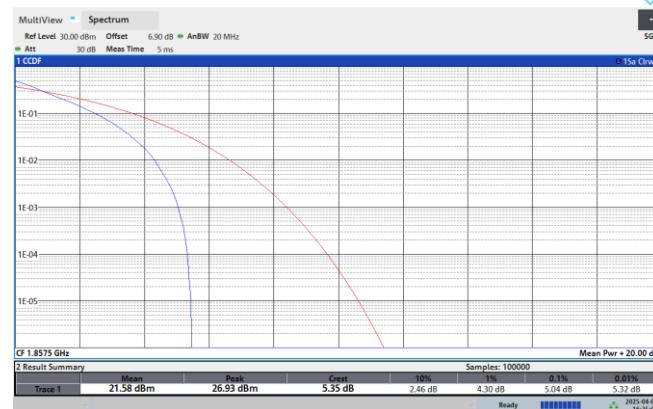
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Band25-10MHz-16QAM-26640-27RB#0

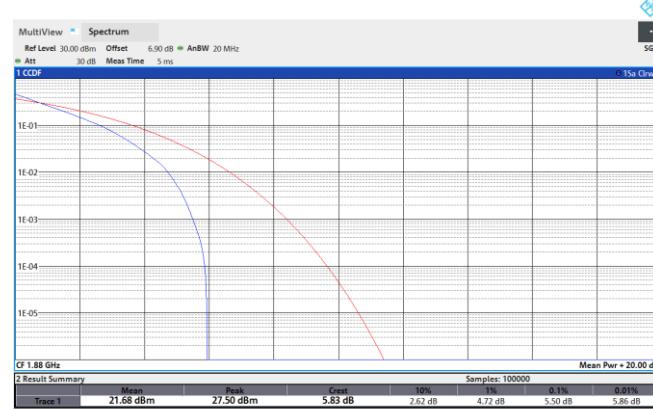
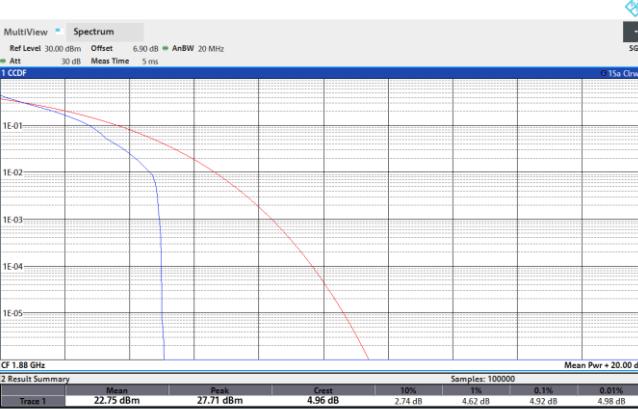


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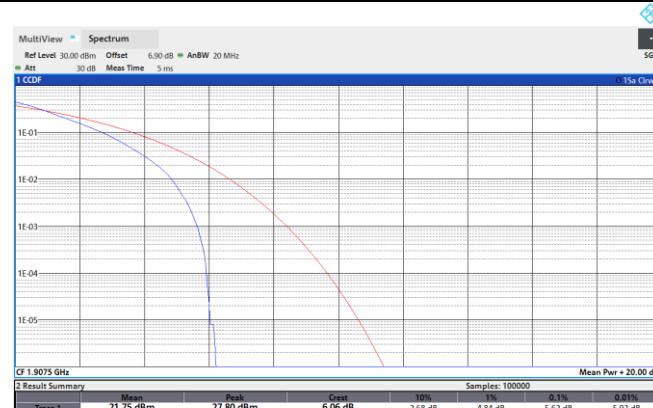
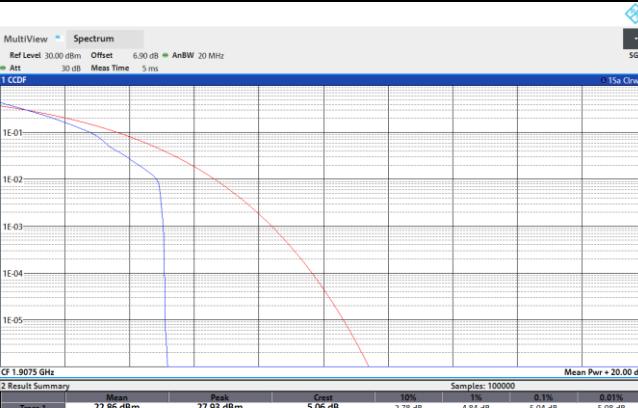
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Band25-15MHz-QPSK-26340-1RB#0

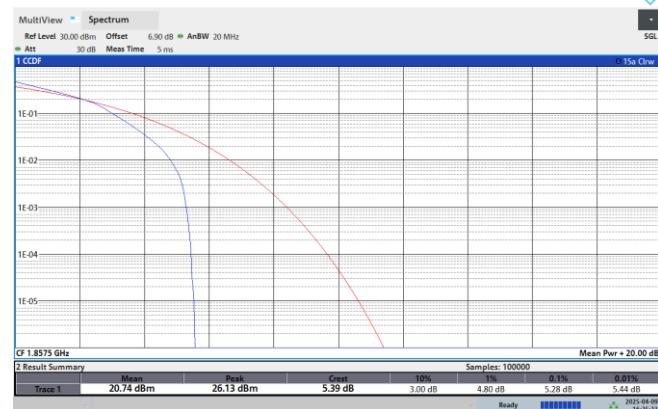


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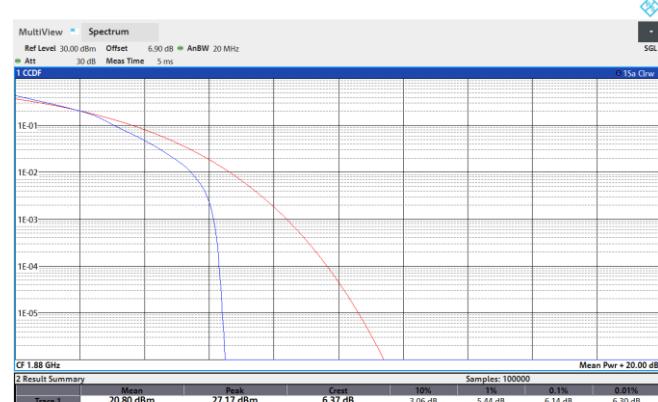
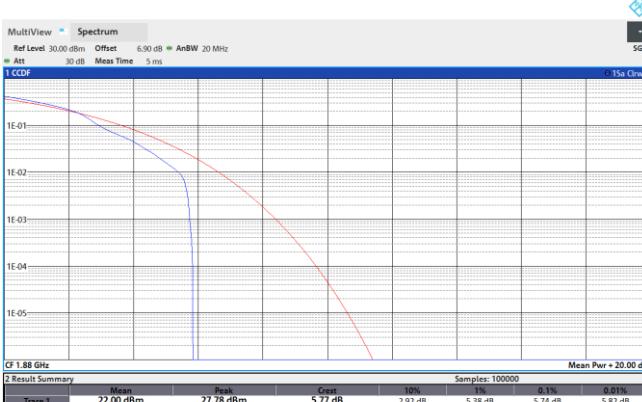
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Band25-15MHz-16QAM-26115-27RB#0



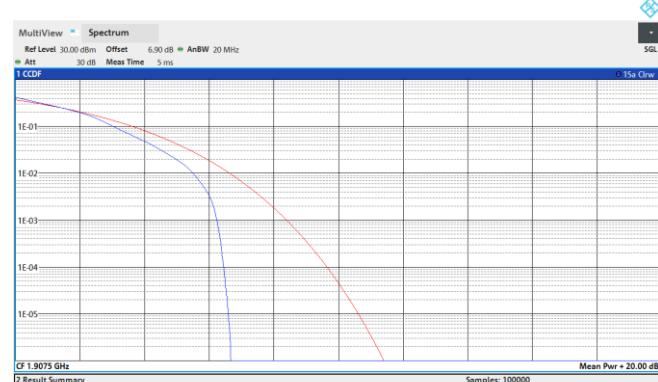
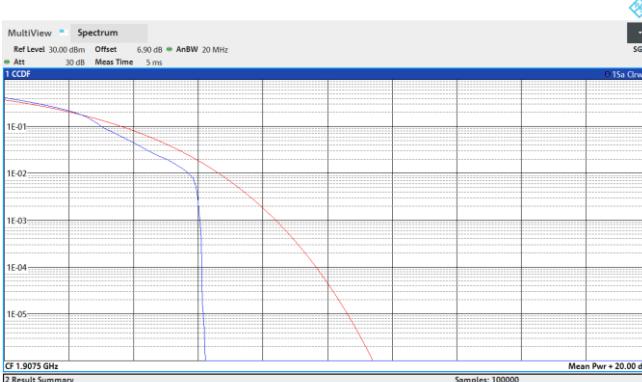
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Band25-15MHz-16QAM-26340-27RB#0



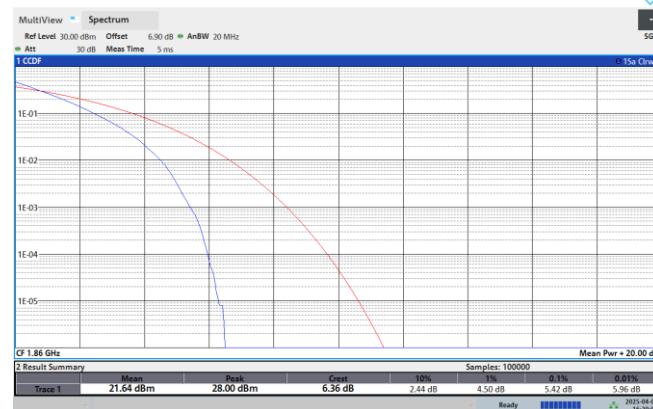
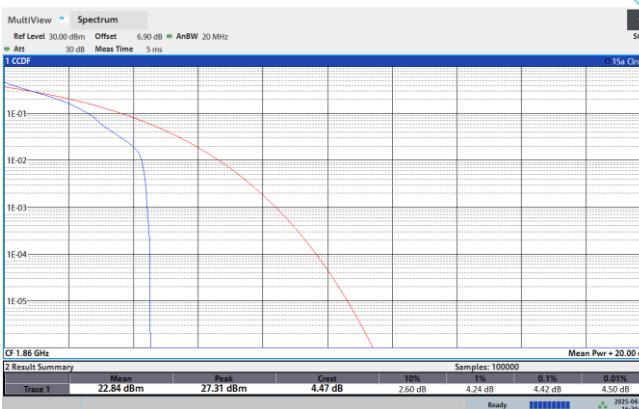
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Band25-15MHz-16QAM-26615-27RB#0

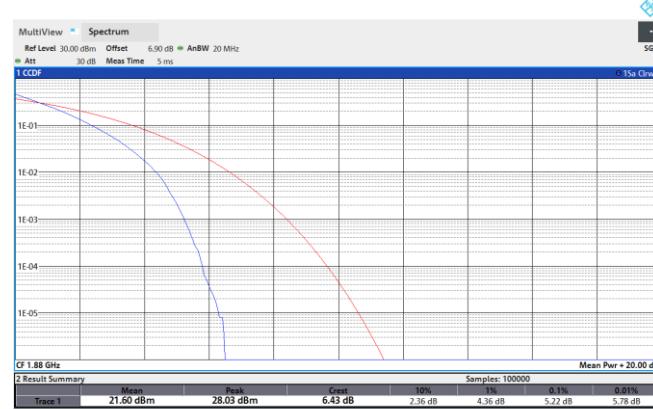
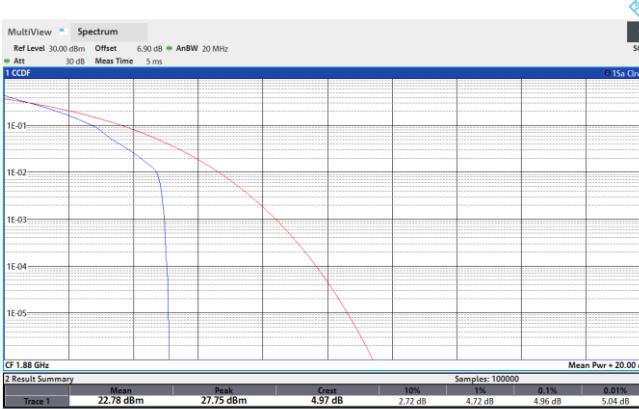


Band25-20MHz-QPSK-26140-1RB#0

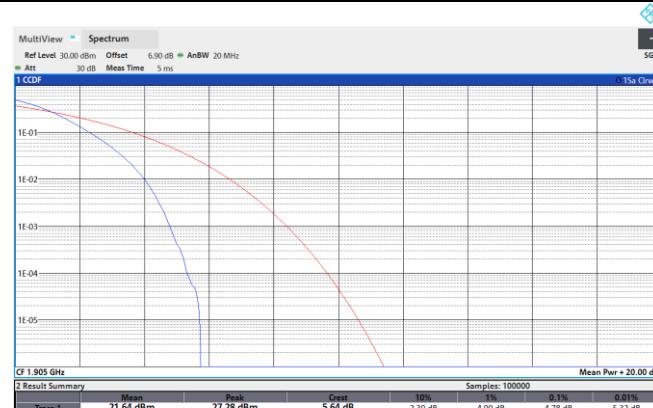
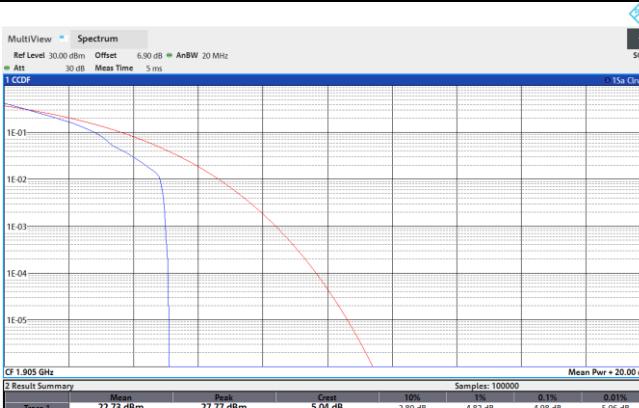
Band25-20MHz-QPSK-26140-100RB#0



### Band25-20MHz-QPSK-26340-1RB#0

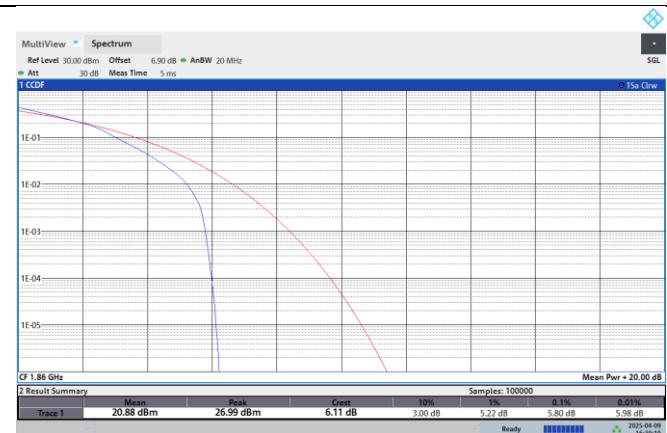
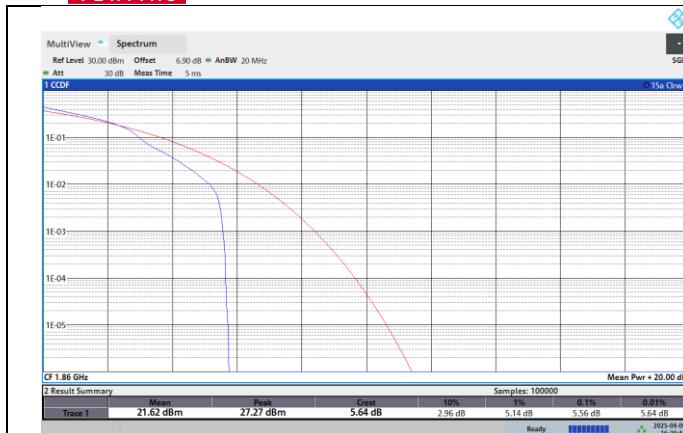


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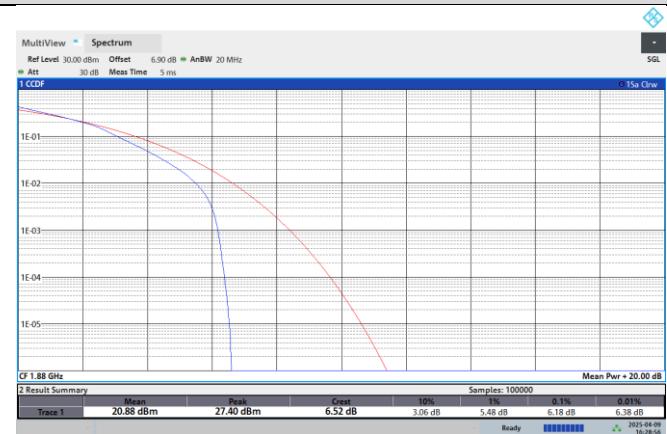
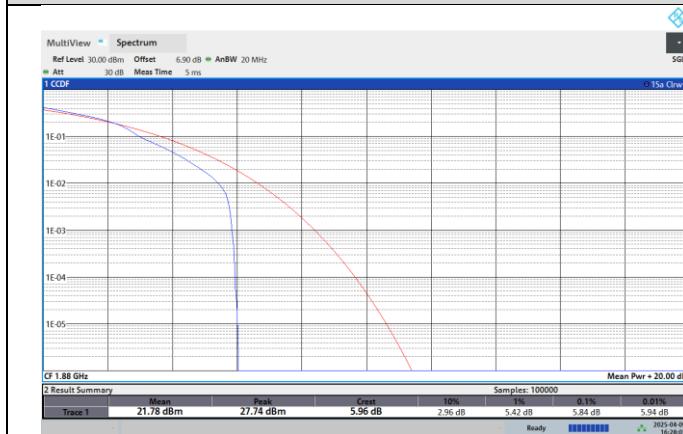
### Band25-20MHz-16QAM-26140-1RB#0

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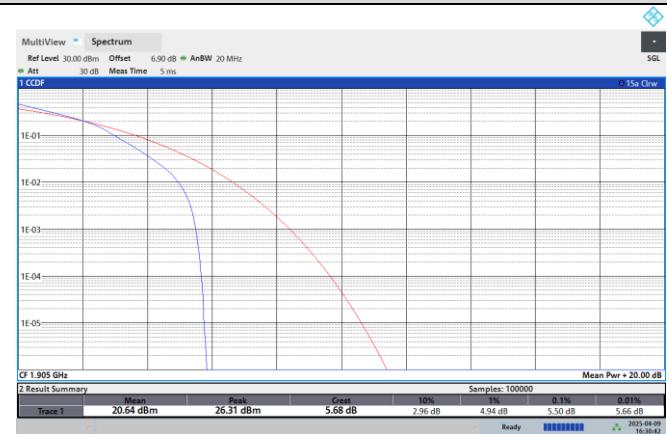
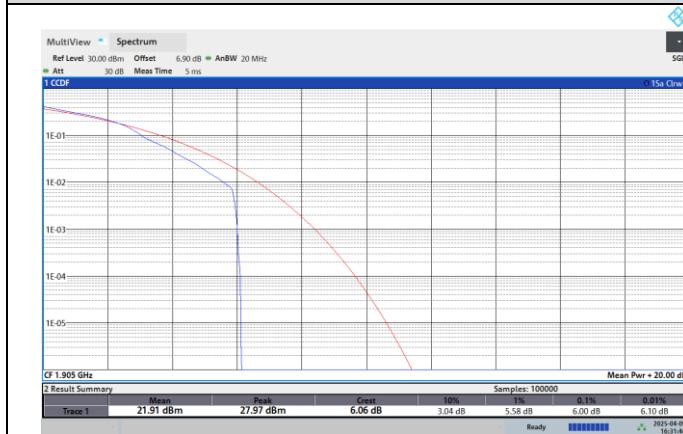
Band25-20MHz-16QAM-26340-1RB#0

Band25-20MHz-16QAM-26340-27RB#0



Band25-20MHz-16QAM-26590-1RB#0

Band25-20MHz-16QAM-26590-27RB#0





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VERITAS Test Report No.: PSU-QSU2503280115RI02

## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH TEST RESULT

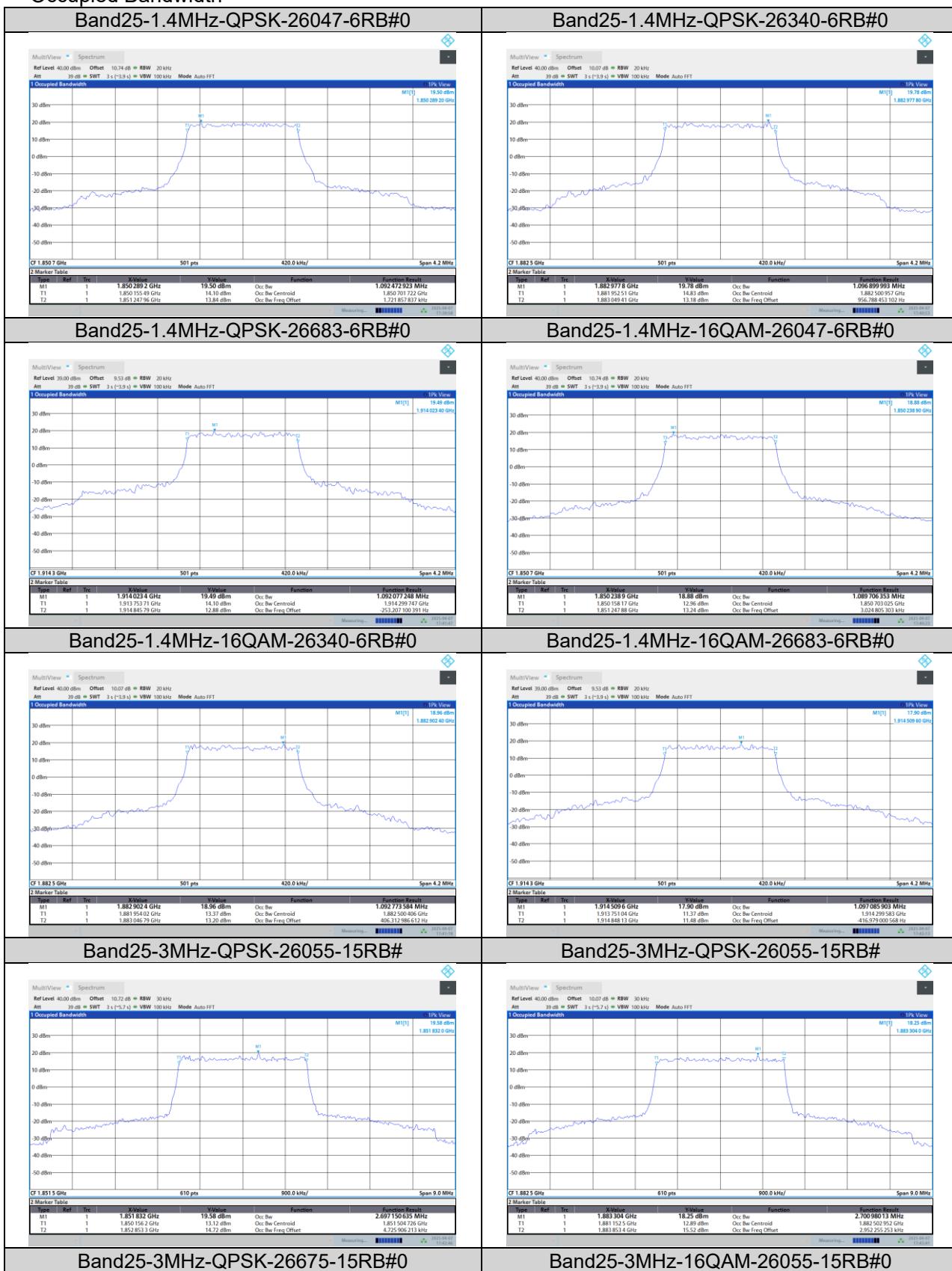
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.092	1.27	PASS
Band25	1.4MHz	QPSK	26340	6RB#0	1.097	1.30	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.092	1.30	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.090	1.28	PASS
Band25	1.4MHz	16QAM	26340	6RB#0	1.093	1.30	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.097	1.28	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.697	2.95	PASS
Band25	3MHz	QPSK	26340	15RB#0	2.701	2.93	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.700	2.96	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.695	2.96	PASS
Band25	3MHz	16QAM	26340	15RB#0	2.693	2.96	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.696	2.96	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.497	4.93	PASS
Band25	5MHz	QPSK	26340	25RB#0	4.496	4.95	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.491	4.92	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.486	4.88	PASS
Band25	5MHz	16QAM	26340	25RB#0	4.500	4.95	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.502	4.96	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.950	9.77	PASS
Band25	10MHz	QPSK	26340	50RB#0	8.932	9.71	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.952	9.62	PASS
Band25	10MHz	16QAM	26090	27RB#0	4.837	5.37	PASS
Band25	10MHz	16QAM	26340	27RB#0	4.836	5.41	PASS
Band25	10MHz	16QAM	26640	27RB#0	4.844	5.42	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.433	14.65	PASS
Band25	15MHz	QPSK	26340	75RB#0	13.472	14.56	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.372	14.43	PASS
Band25	15MHz	16QAM	26115	27RB#0	4.848	5.47	PASS
Band25	15MHz	16QAM	26340	27RB#0	4.839	5.35	PASS
Band25	15MHz	16QAM	26615	27RB#0	4.836	5.51	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.906	19.30	PASS
Band25	20MHz	QPSK	26340	100RB#0	17.863	19.18	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.820	19.06	PASS
Band25	20MHz	16QAM	26140	27RB#0	4.845	5.55	PASS
Band25	20MHz	16QAM	26340	27RB#0	4.845	5.57	PASS
Band25	20MHz	16QAM	26590	27RB#0	4.840	5.51	PASS

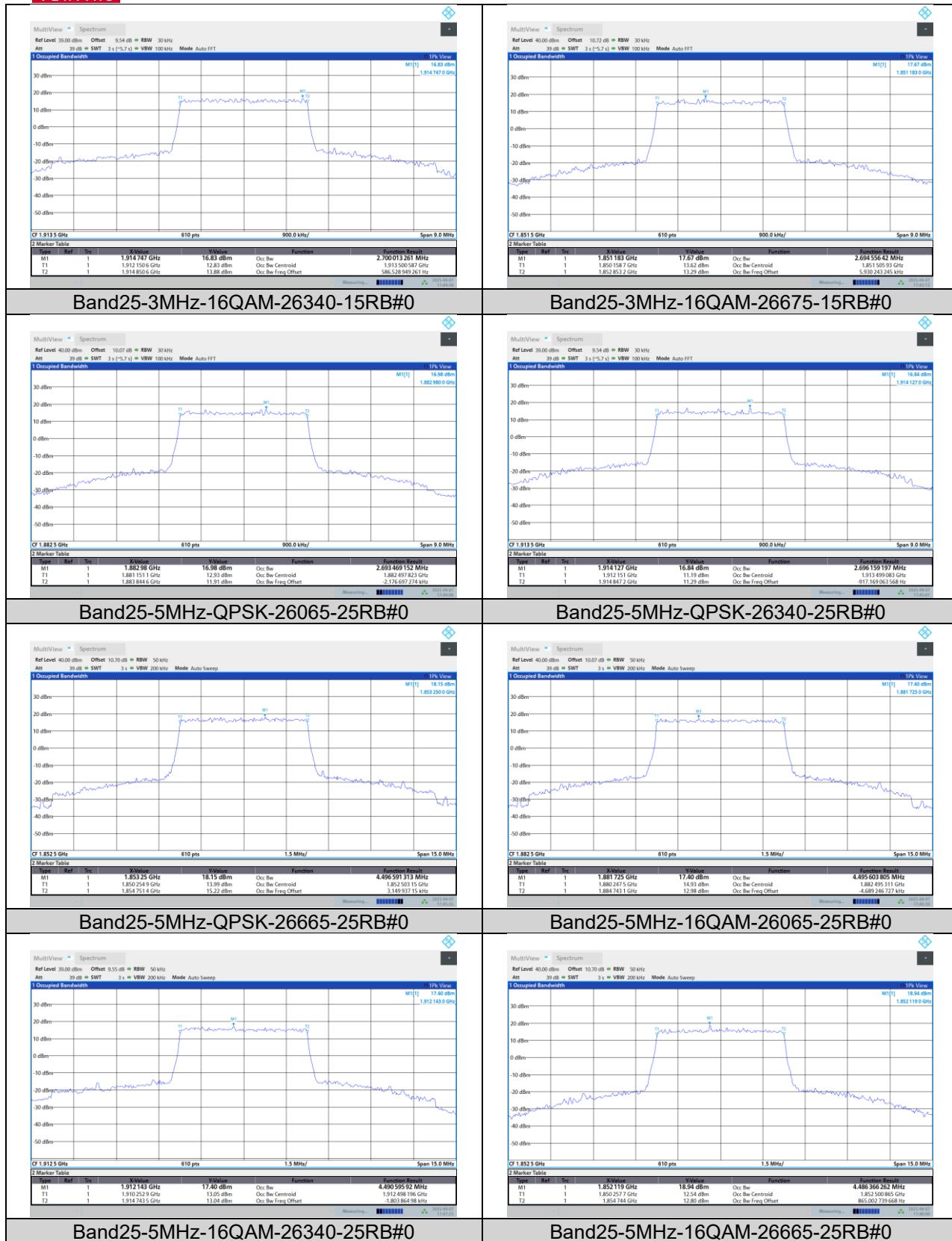


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VERITAS Test Report No.: PSU-QSU2503280115RI02

## TEST GRAPHS

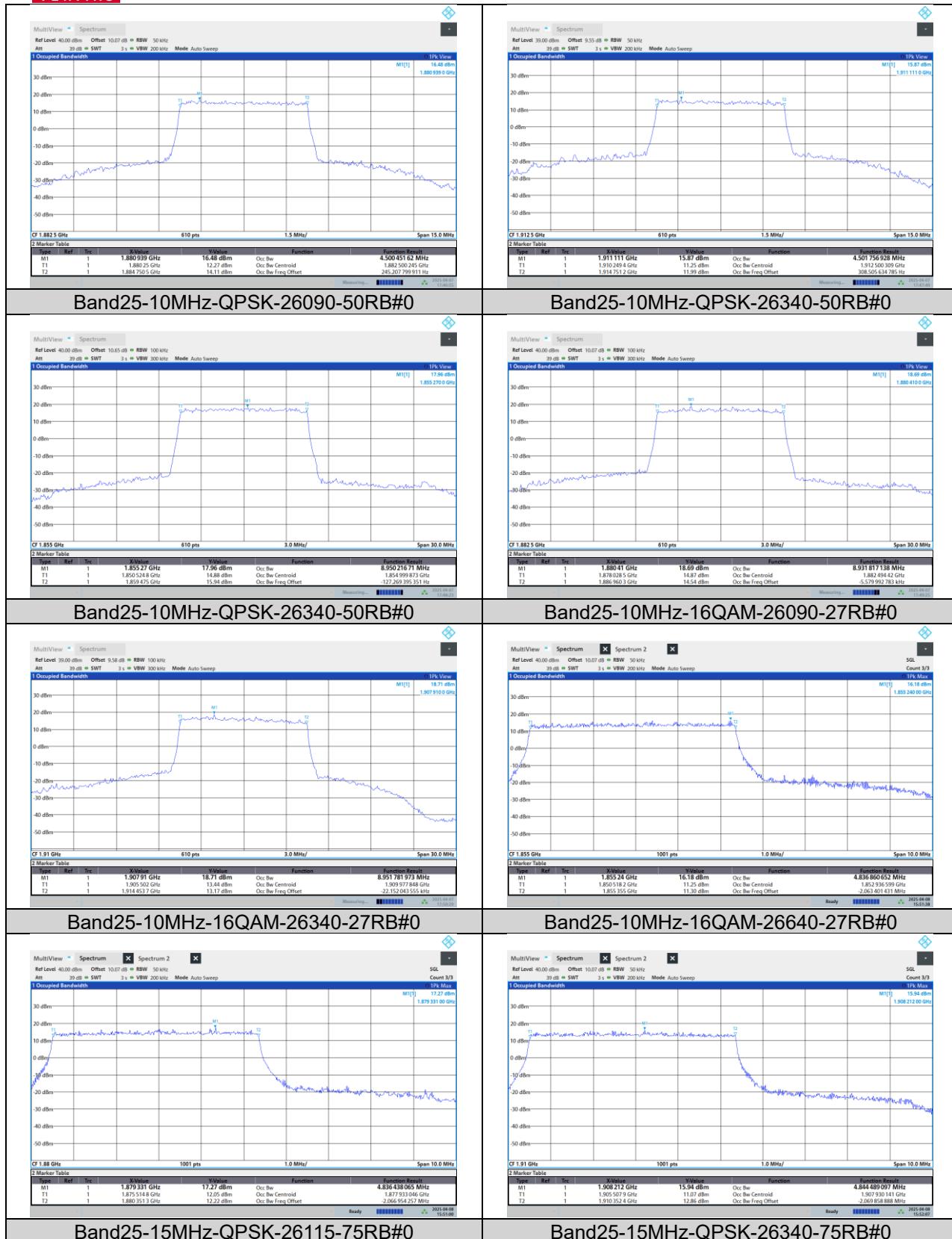
### Occupied Bandwidth





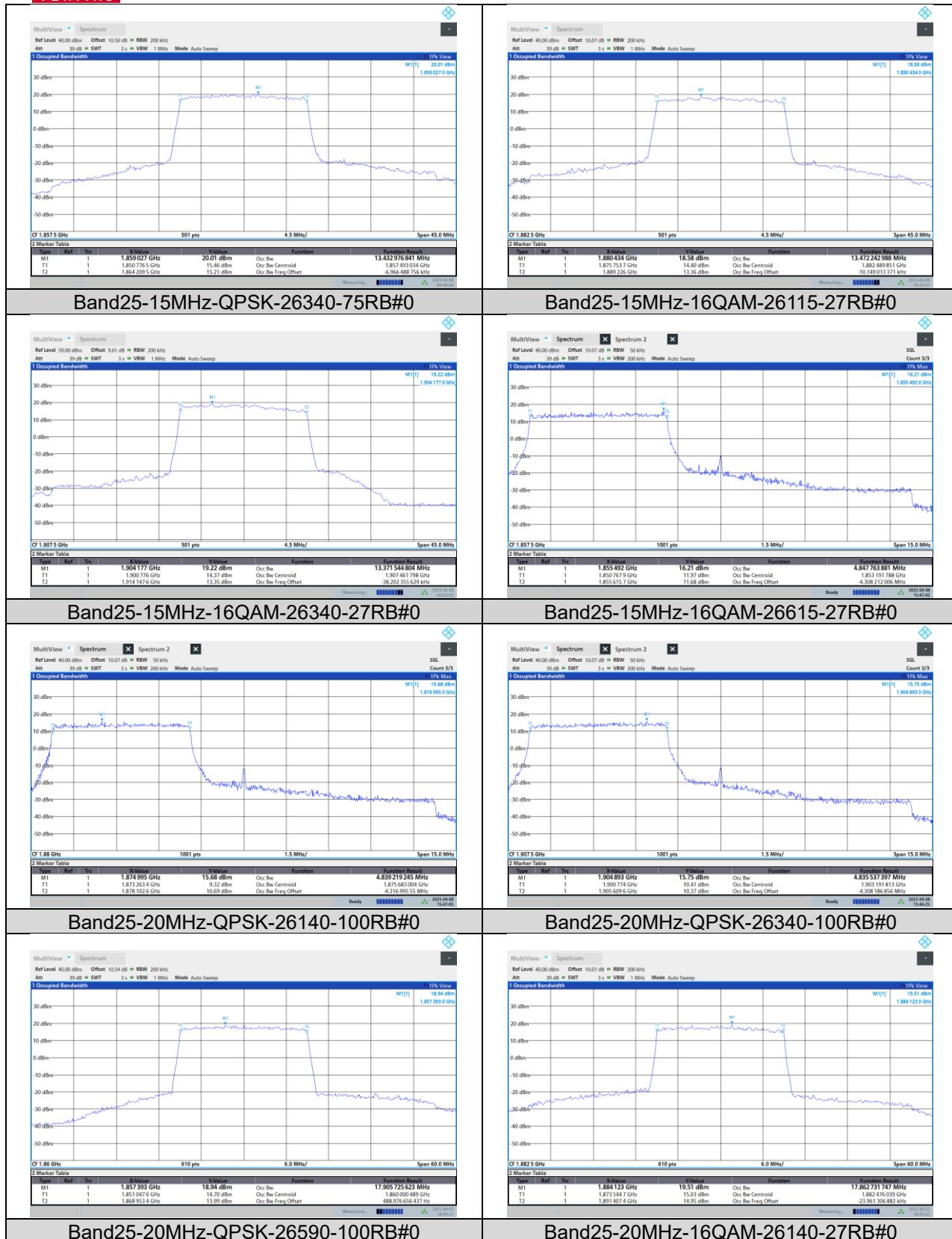


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VERITAS** Test Report No.: PSU-QSU2503280115RI02



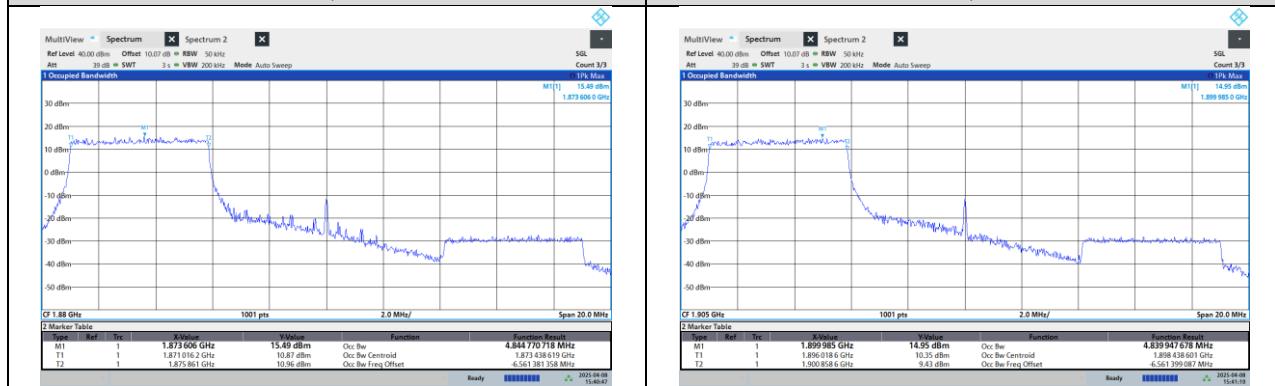


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VERITAS** Test Report No.: PSU-QSU2503280115RI02

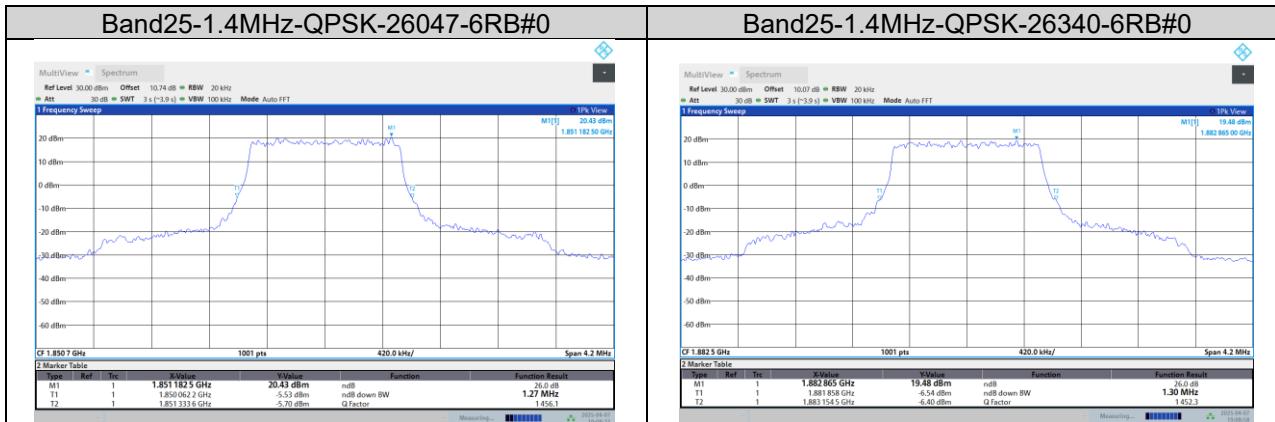




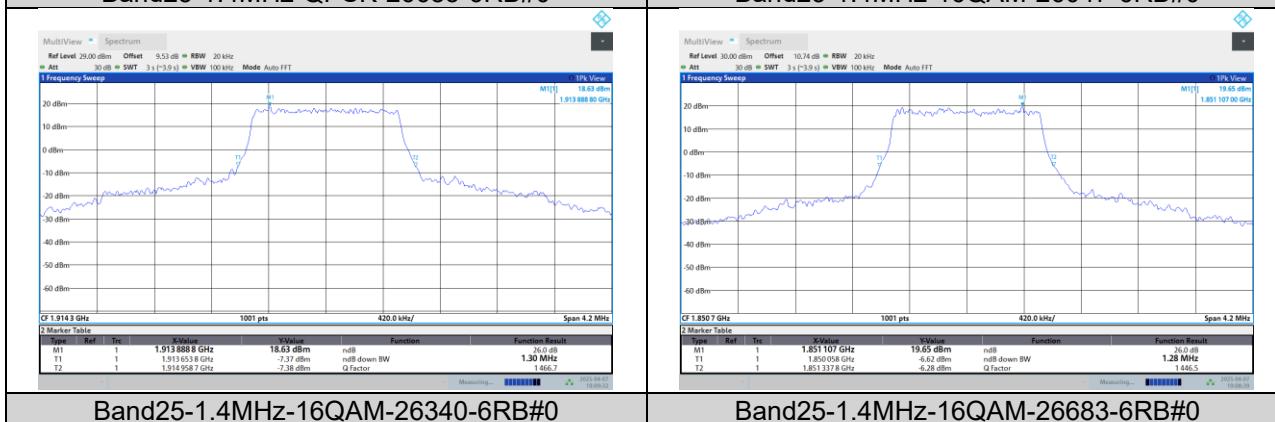
Band25-20MHz-16QAM-26340-27RB#0



## 26dB Bandwidth



Band25-1.4MHz-QPSK-26683-6RB#0

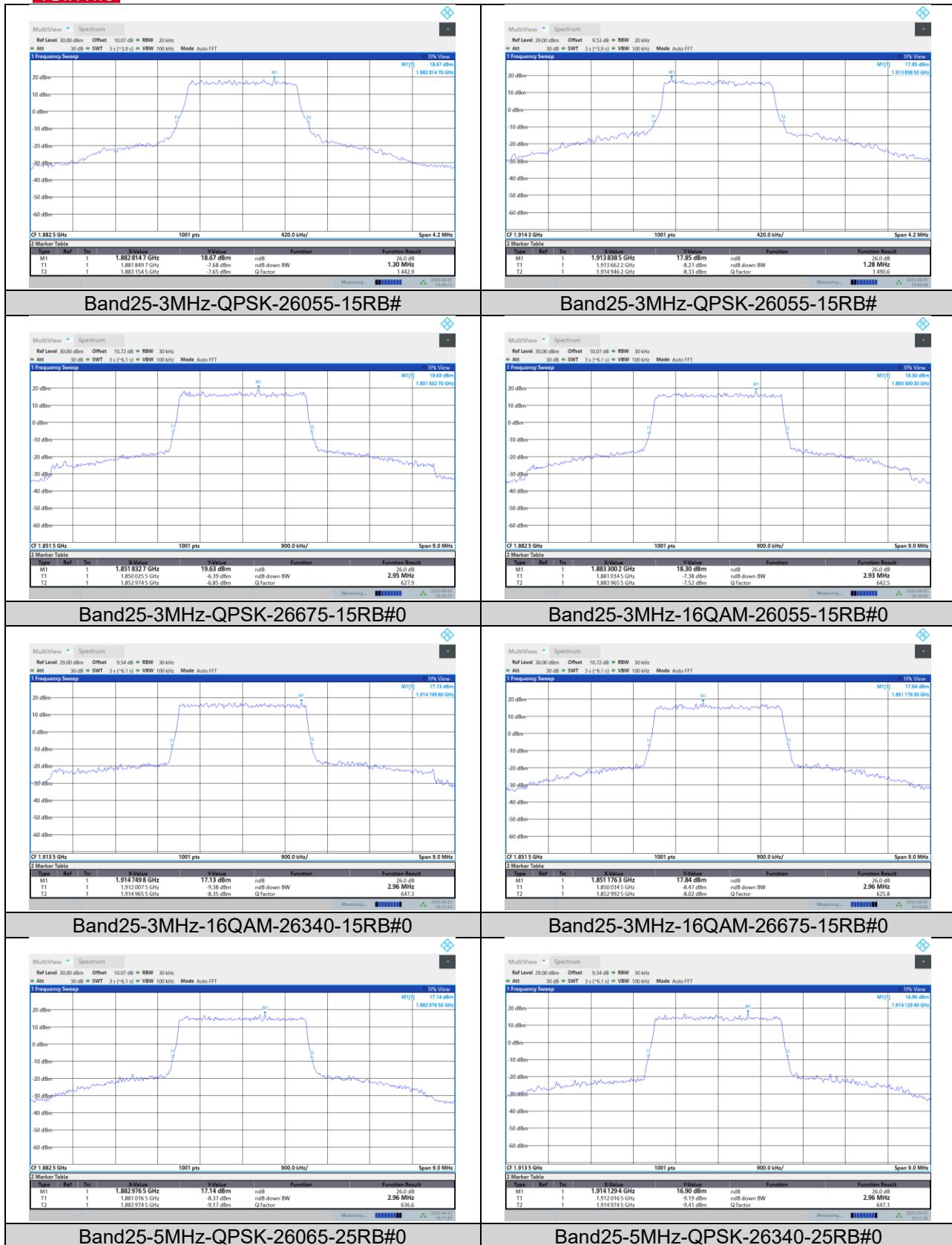


Band25-1.4MHz-16QAM-26340-6RB#0

Band25-1.4MHz-16QAM-26683-6RB#0



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VERITAS** Test Report No.: PSU-QSU2503280115RI02



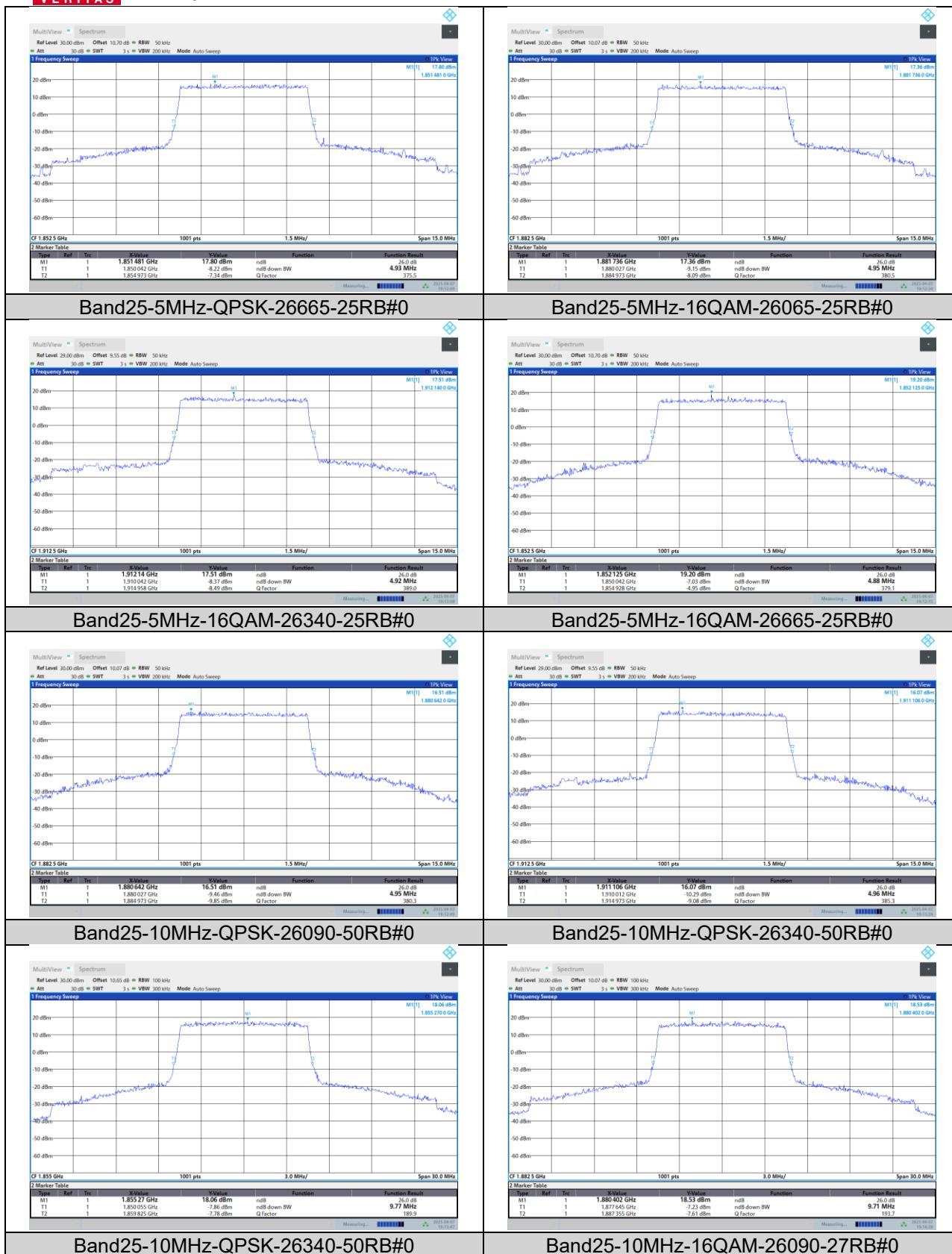
Huarui 7layers High Technology  
(Suzhou) Co., Ltd.

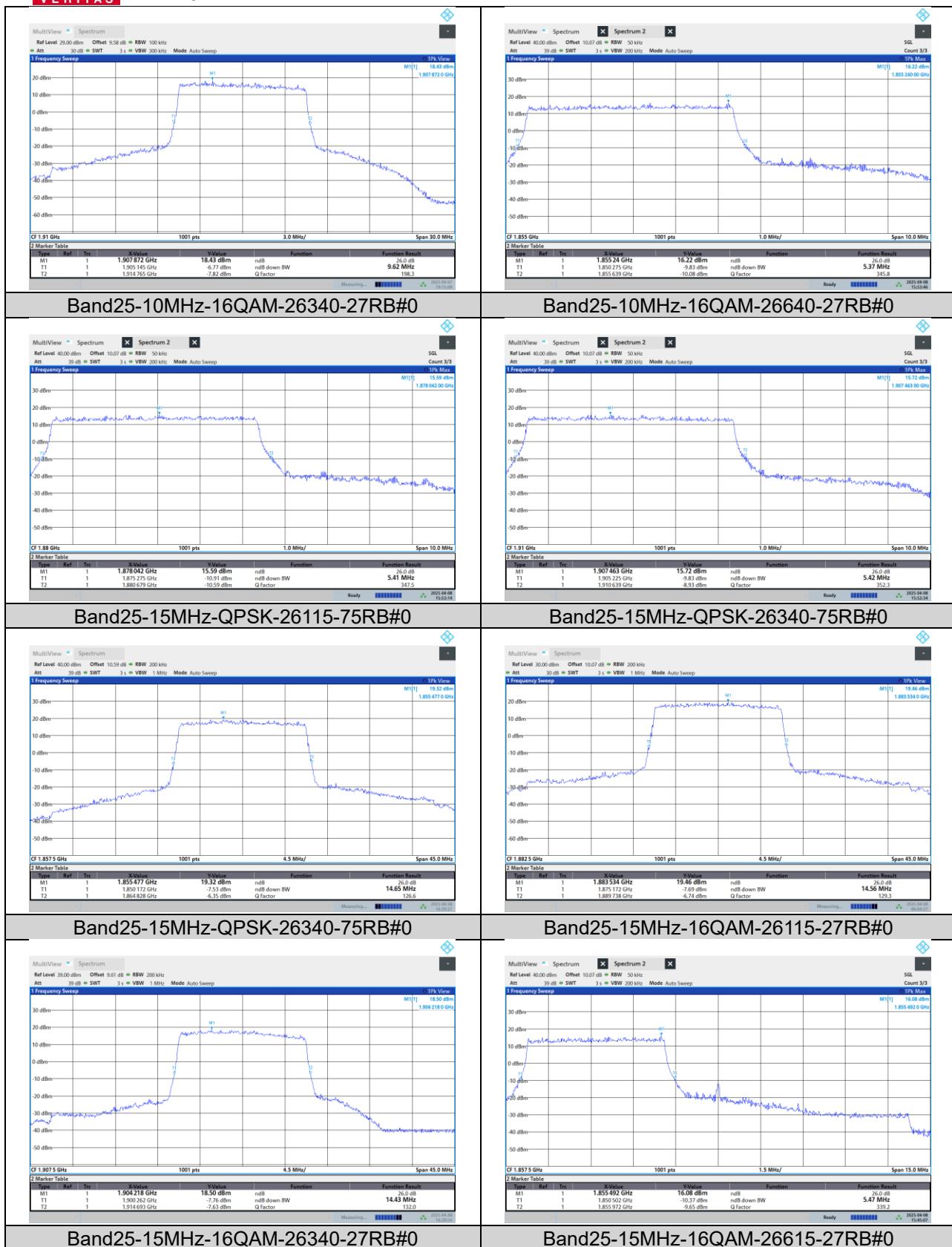
Tower N, Innovation Centre 88 Zuyi Road, High-tech  
District, Suzhou City, Anhui Province, P.R.C.

Tel: +86 (0557) 368 1008



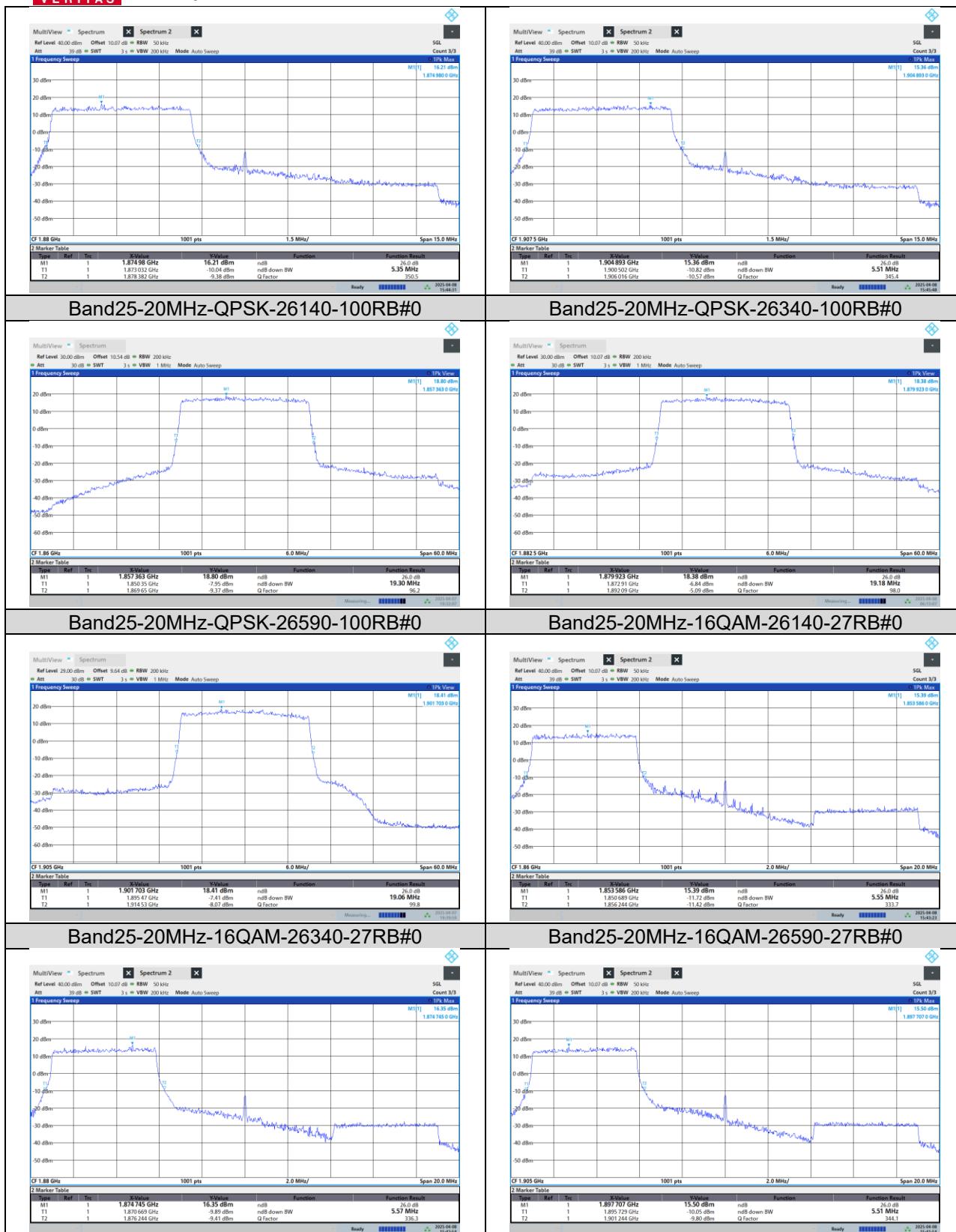
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(Suzhou) Co., Ltd.

Tower N, Innovation Centre 88 Zuyi Road, High-tech  
District, Suzhou City, Anhui Province, P.R.C.

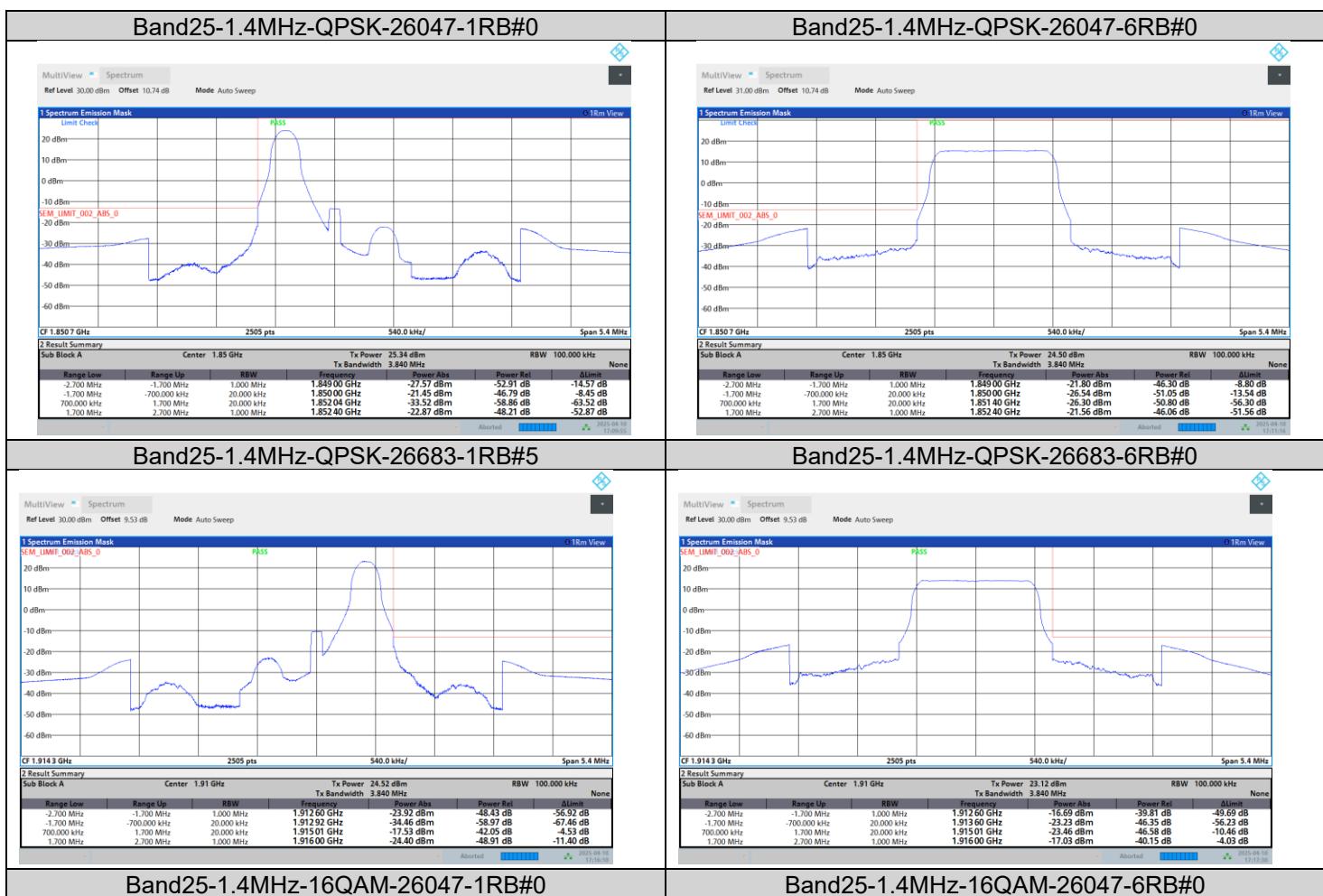
Tel: +86 (0557) 368 1008

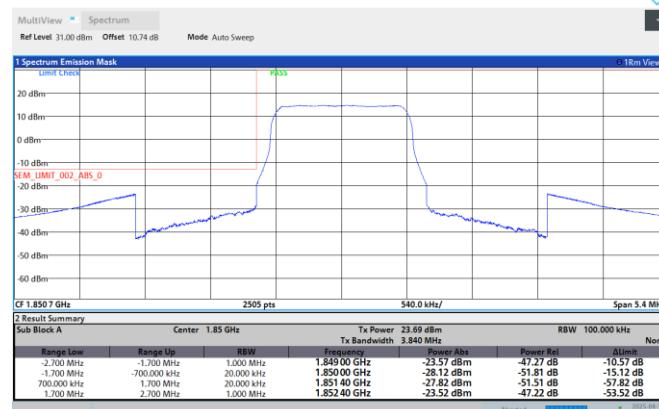
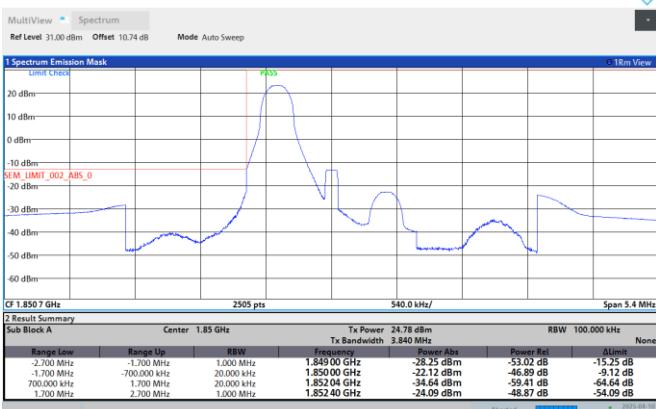
**BAND EDGE  
TEST RESULT**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	See Graph	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	See Graph	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	See Graph	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	See Graph	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	See Graph	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	See Graph	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	See Graph	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	See Graph	PASS
Band25	3MHz	QPSK	26055	1RB#0	See Graph	PASS
Band25	3MHz	QPSK	26055	15RB#0	See Graph	PASS
Band25	3MHz	QPSK	26675	1RB#14	See Graph	PASS
Band25	3MHz	QPSK	26675	15RB#0	See Graph	PASS
Band25	3MHz	16QAM	26055	1RB#0	See Graph	PASS
Band25	3MHz	16QAM	26055	15RB#0	See Graph	PASS
Band25	3MHz	16QAM	26675	1RB#14	See Graph	PASS
Band25	3MHz	16QAM	26675	15RB#0	See Graph	PASS
Band25	5MHz	QPSK	26065	1RB#0	See Graph	PASS
Band25	5MHz	QPSK	26065	25RB#0	See Graph	PASS
Band25	5MHz	QPSK	26665	1RB#24	See Graph	PASS
Band25	5MHz	QPSK	26665	25RB#0	See Graph	PASS
Band25	5MHz	16QAM	26065	1RB#0	See Graph	PASS
Band25	5MHz	16QAM	26065	25RB#0	See Graph	PASS
Band25	5MHz	16QAM	26665	1RB#24	See Graph	PASS
Band25	5MHz	16QAM	26665	25RB#0	See Graph	PASS
Band25	10MHz	QPSK	26090	1RB#0	See Graph	PASS
Band25	10MHz	QPSK	26090	50RB#0	See Graph	PASS
Band25	10MHz	QPSK	26640	1RB#49	See Graph	PASS
Band25	10MHz	QPSK	26640	50RB#0	See Graph	PASS
Band25	10MHz	16QAM	26090	1RB#0	See Graph	PASS
Band25	10MHz	16QAM	26090	27RB#0	See Graph	PASS
Band25	10MHz	16QAM	26640	1RB#49	See Graph	PASS
Band25	10MHz	16QAM	26640	27RB#23	See Graph	PASS
Band25	15MHz	QPSK	26115	1RB#0	See Graph	PASS
Band25	15MHz	QPSK	26115	75RB#0	See Graph	PASS
Band25	15MHz	QPSK	26615	1RB#74	See Graph	PASS
Band25	15MHz	QPSK	26615	75RB#0	See Graph	PASS
Band25	15MHz	16QAM	26115	1RB#0	See Graph	PASS
Band25	15MHz	16QAM	26115	27RB#0	See Graph	PASS
Band25	15MHz	16QAM	26615	1RB#74	See Graph	PASS
Band25	15MHz	16QAM	26615	27RB#48	See Graph	PASS
Band25	20MHz	QPSK	26140	1RB#0	See Graph	PASS
Band25	20MHz	QPSK	26140	100RB#0	See Graph	PASS
Band25	20MHz	QPSK	26590	1RB#99	See Graph	PASS
Band25	20MHz	QPSK	26590	100RB#0	See Graph	PASS
Band25	20MHz	16QAM	26140	1RB#0	See Graph	PASS
Band25	20MHz	16QAM	26140	27RB#0	See Graph	PASS
Band25	20MHz	16QAM	26590	1RB#99	See Graph	PASS
Band25	20MHz	16QAM	26590	27RB#73	See Graph	PASS



## TEST GRAPHS

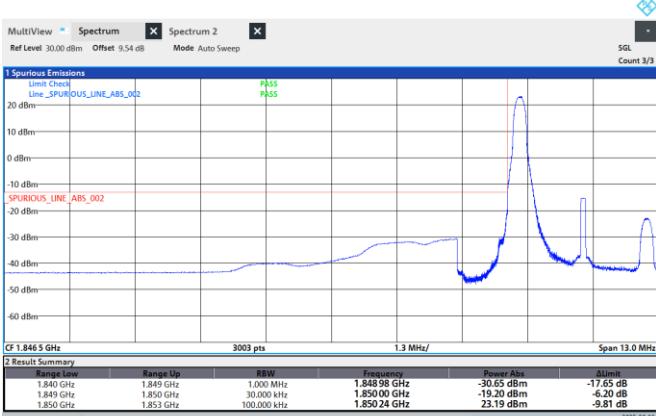




### Band25-1.4MHz-16QAM-26683-1RB#5



### Band25-3MHz-QPSK-26055-1RB#0

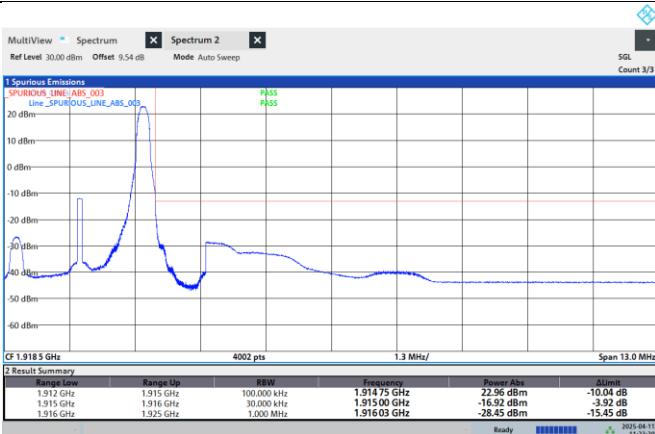


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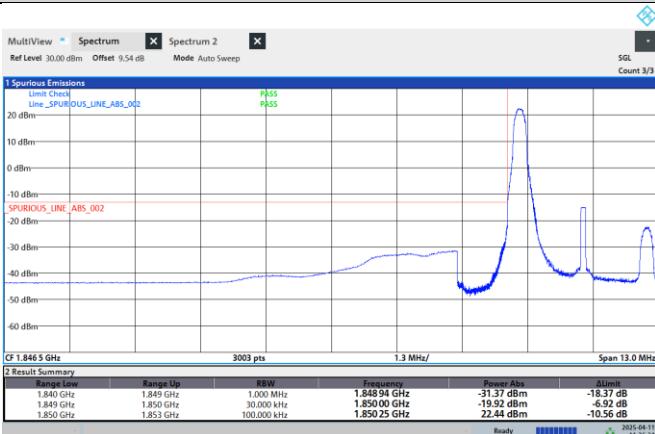
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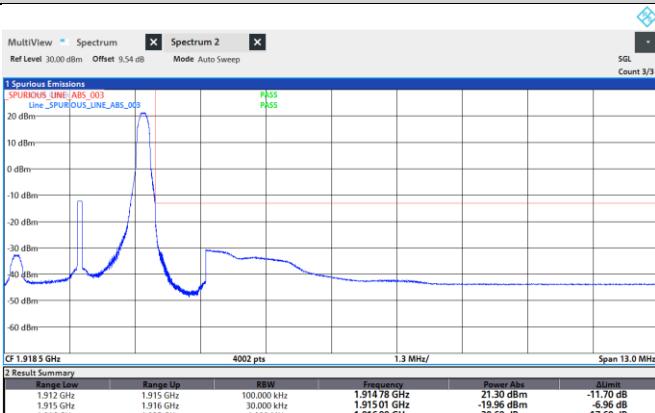
**BUREAU  
VERITAS** Test Report No.: PSU-QSU2503280115RI02



### Band25-3MHz-16QAM-26055-1RB#0

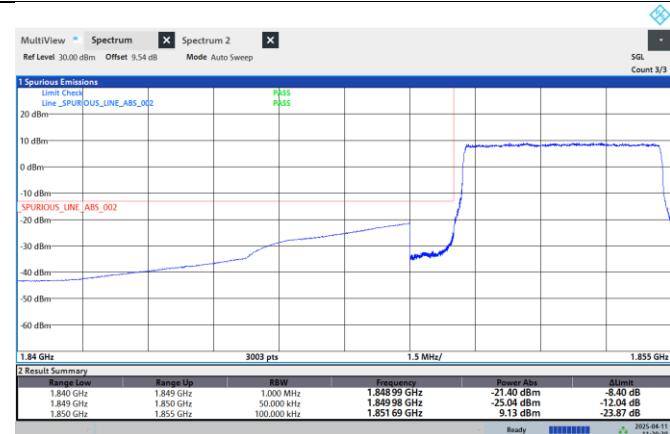
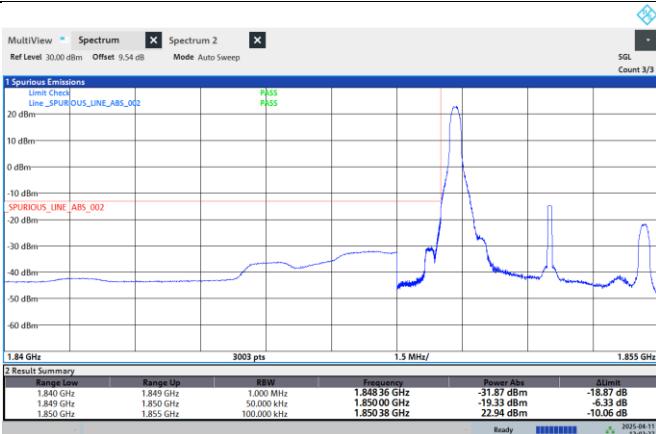


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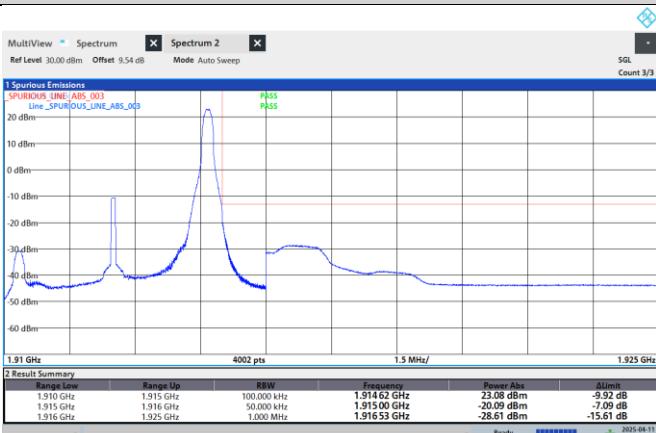


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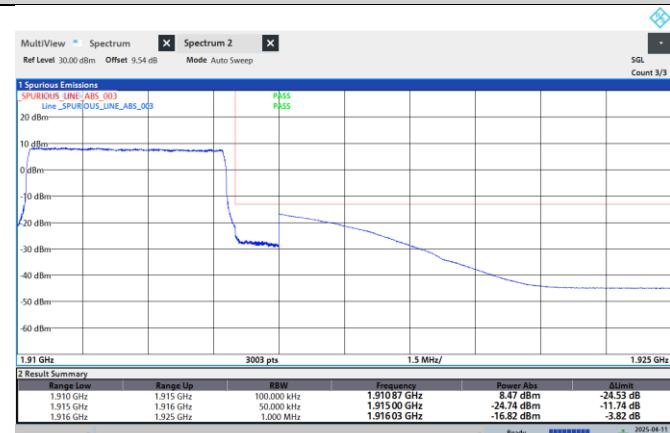
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### Band25-5MHz-QPSK-26665-1RB#24



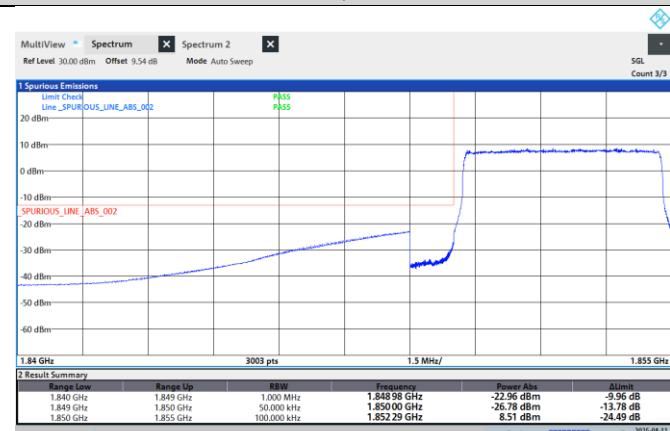
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### Band25-5MHz-16QAM-26065-1RB#0

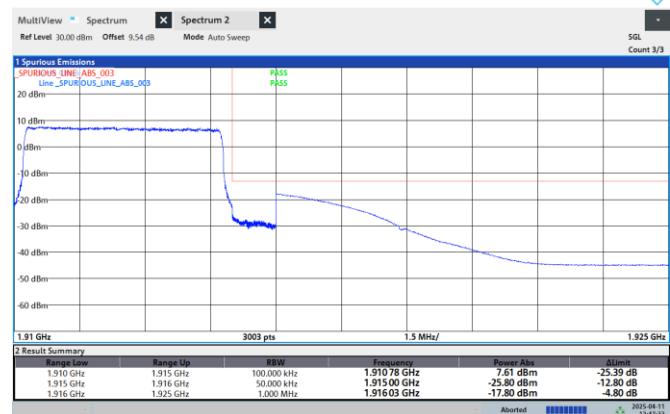
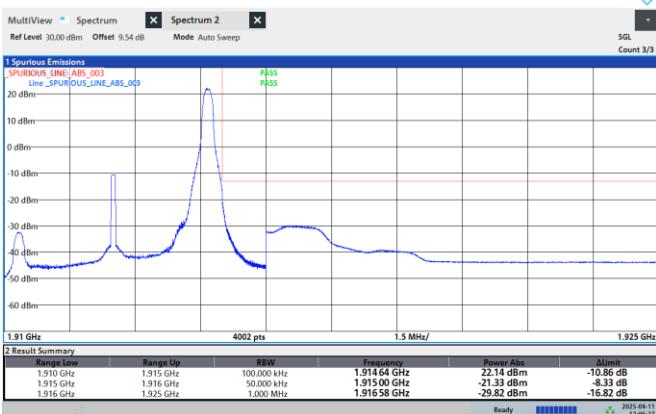


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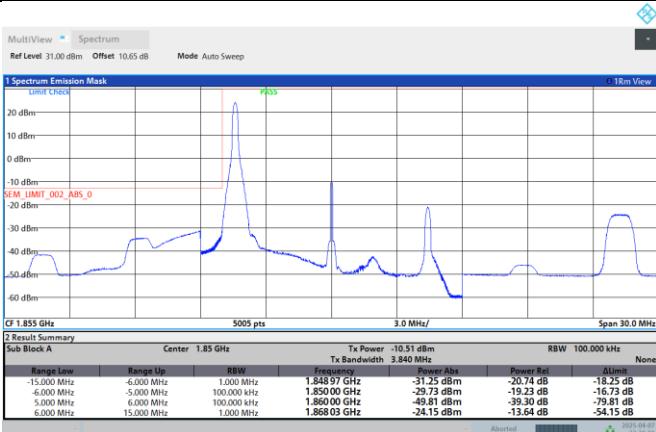


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### Band25-5MHz-16QAM-26665-25RB#0



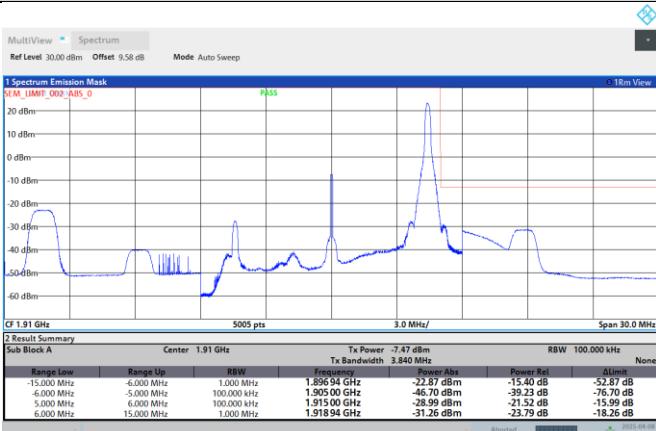
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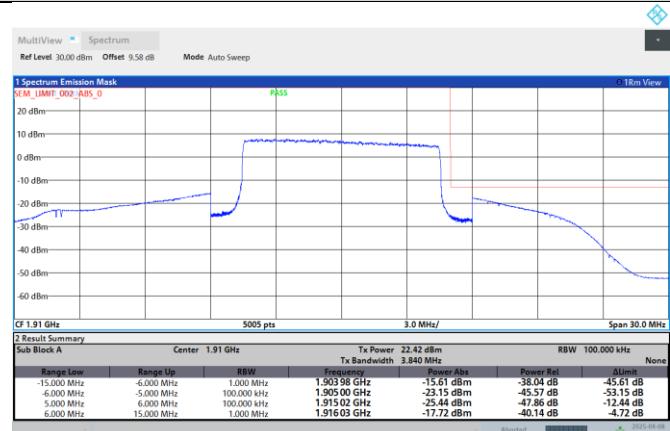
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### Band25-10MHz-QPSK-26640-1RB#49

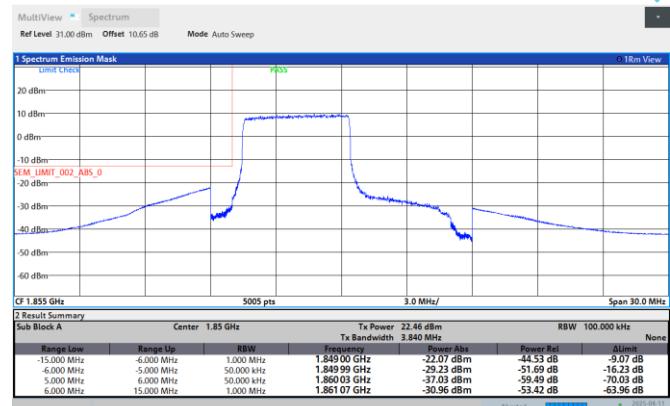
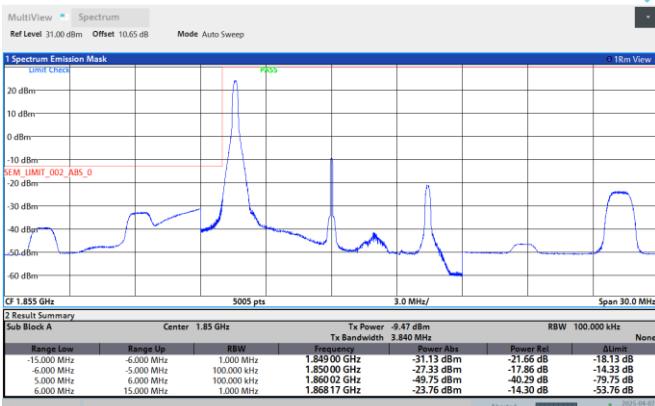


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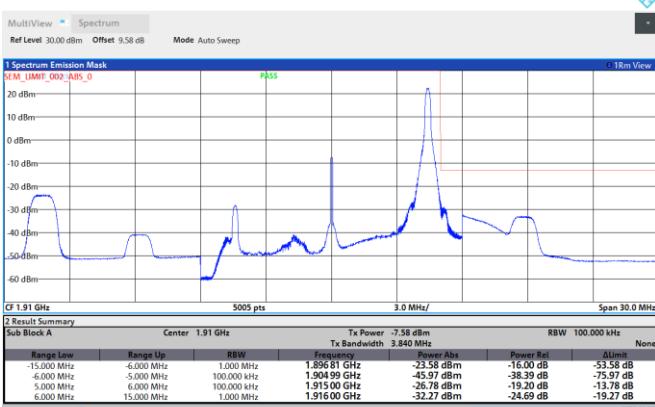
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### Band25-10MHz-16QAM-26090-27RB#0



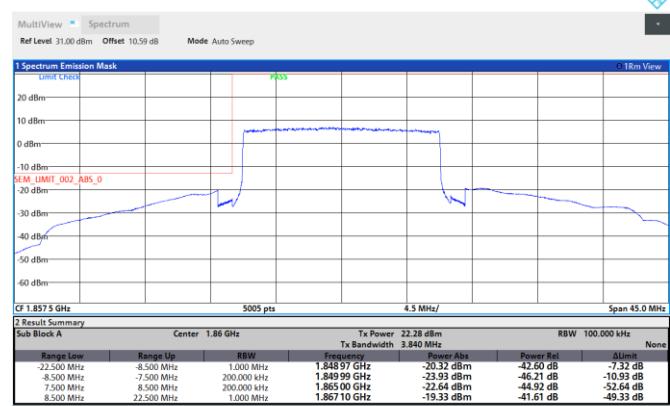
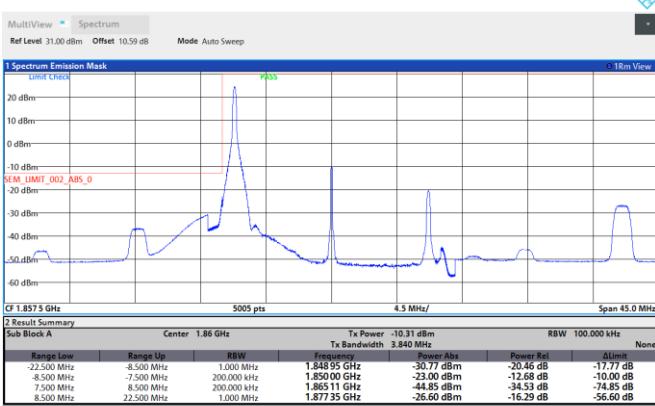
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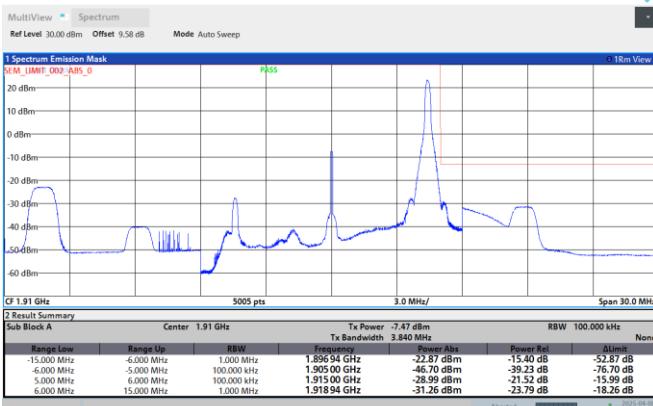
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### Band25-15MHz-QPSK-26115-75RB#0

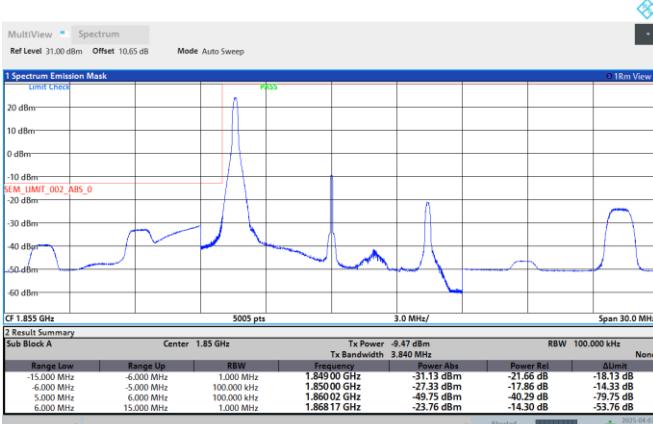


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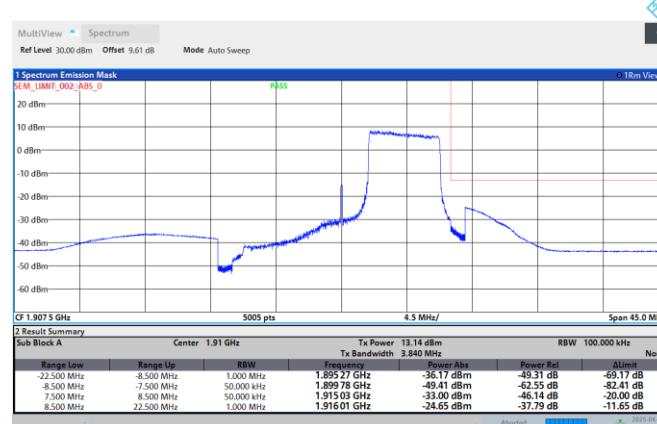
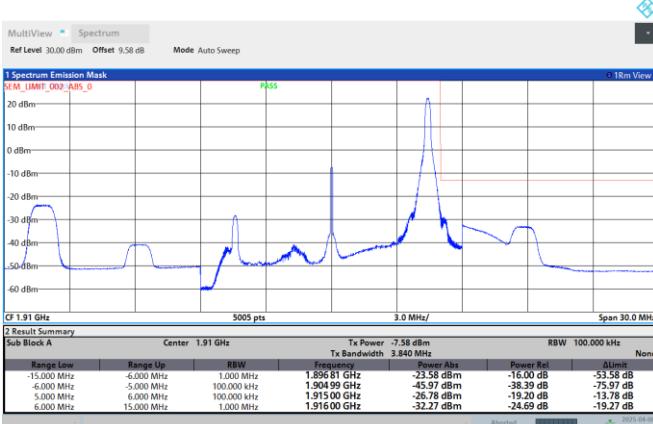
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### Band25-15MHz-16QAM-26115-1RB#0

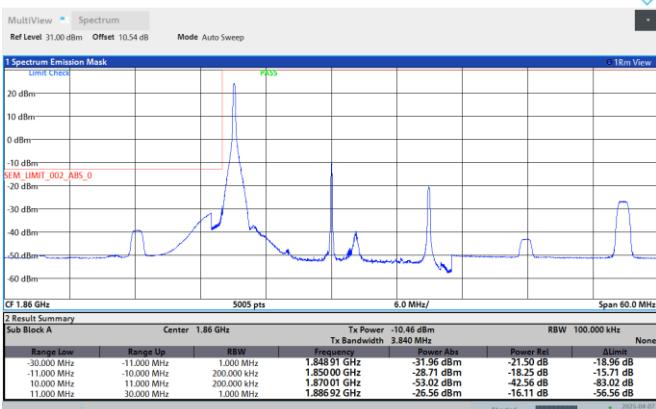


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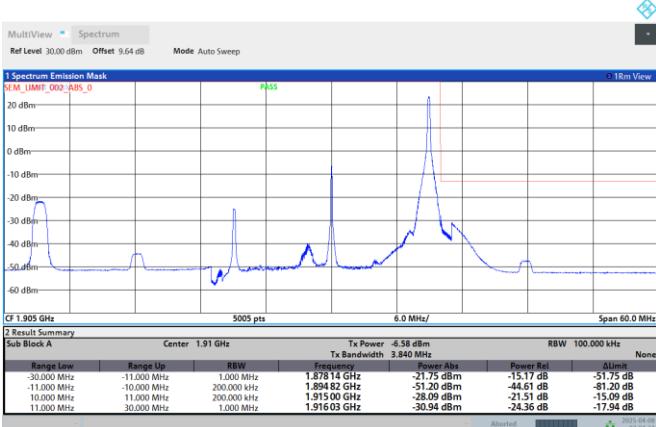


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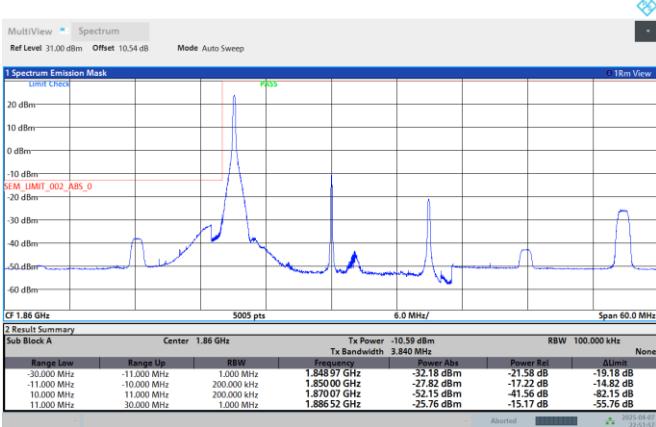
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### Band25-20MHz-QPSK-26590-1RB#99



### Band25-20MHz-16QAM-26140-1RB#0

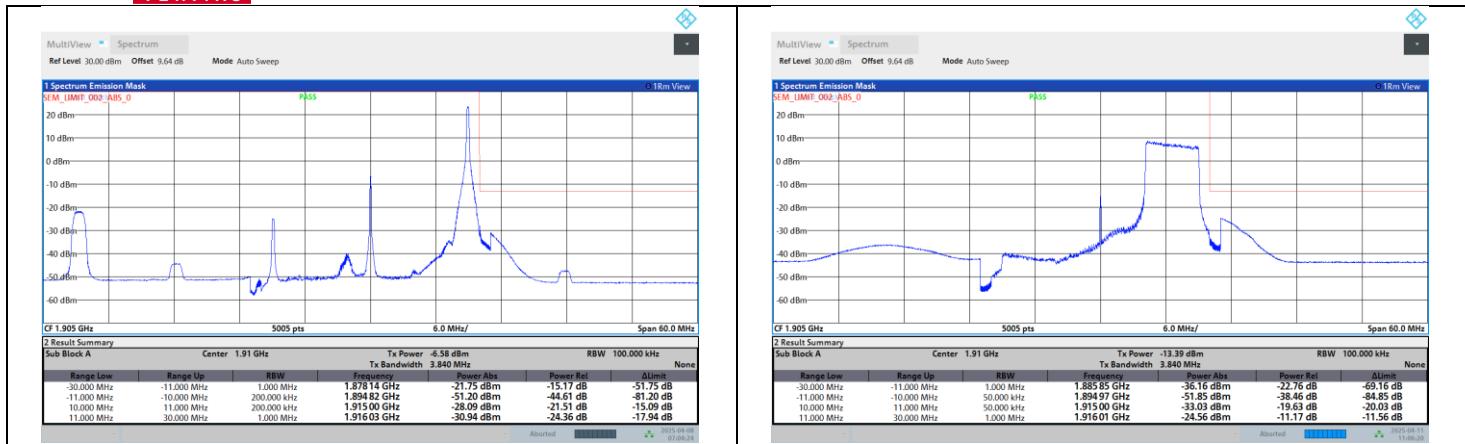


### Band25-20MHz-16QAM-26590-1RB#99

### Band25-20MHz-16QAM-26590-27RB#73



BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02



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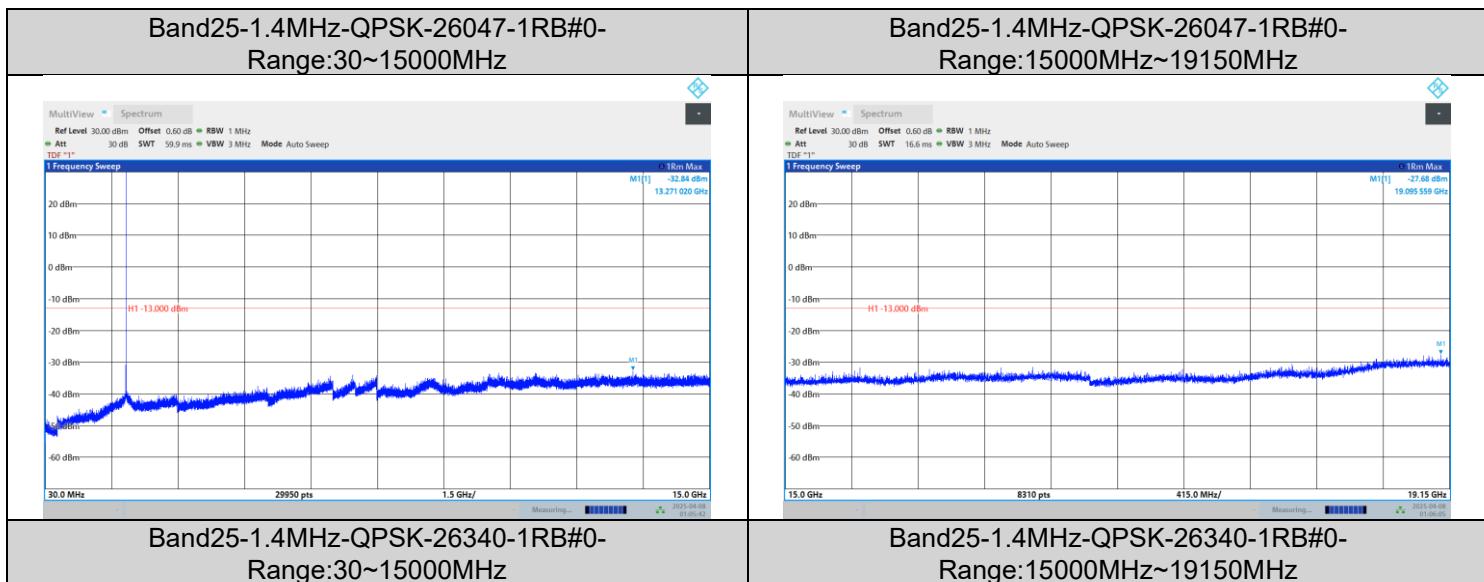
**CONDUCTED SPURIOUS EMISSION  
TEST RESULT**

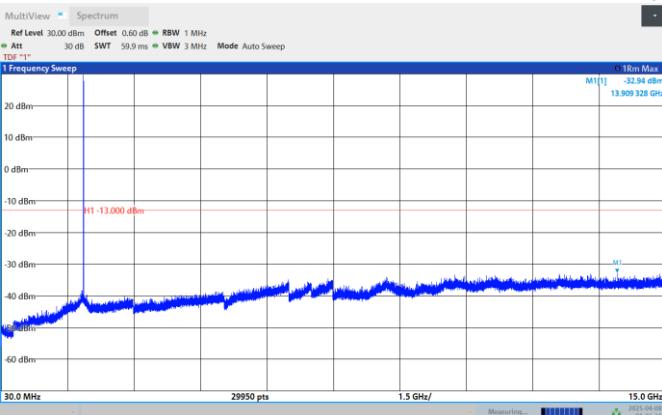
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26047	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26340	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	3MHz	QPSK	26055	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	3MHz	QPSK	26055	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	3MHz	QPSK	26340	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	3MHz	QPSK	26340	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	3MHz	QPSK	26675	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	3MHz	QPSK	26675	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	5MHz	QPSK	26065	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	5MHz	QPSK	26065	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	5MHz	QPSK	26340	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	5MHz	QPSK	26340	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	5MHz	QPSK	26665	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	5MHz	QPSK	26665	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	10MHz	QPSK	26090	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	10MHz	QPSK	26090	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	10MHz	QPSK	26340	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	10MHz	QPSK	26340	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	10MHz	QPSK	26640	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	10MHz	QPSK	26640	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	15MHz	QPSK	26115	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	15MHz	QPSK	26115	1RB#0	Range:15000~19150MHz	See Graph	PASS



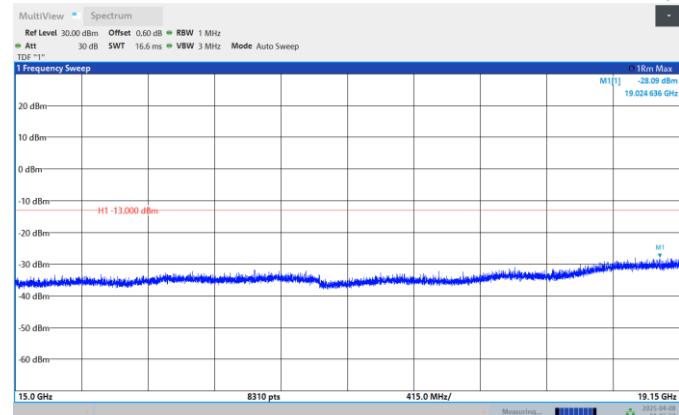
Band25	15MHz	QPSK	26340	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	15MHz	QPSK	26340	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	15MHz	QPSK	26615	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	15MHz	QPSK	26615	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	20MHz	QPSK	26340	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	20MHz	QPSK	26340	1RB#0	Range:15000~19150MHz	See Graph	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range:30~15000MHz	See Graph	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range:15000~19150MHz	See Graph	PASS

## TEST GRAPHS

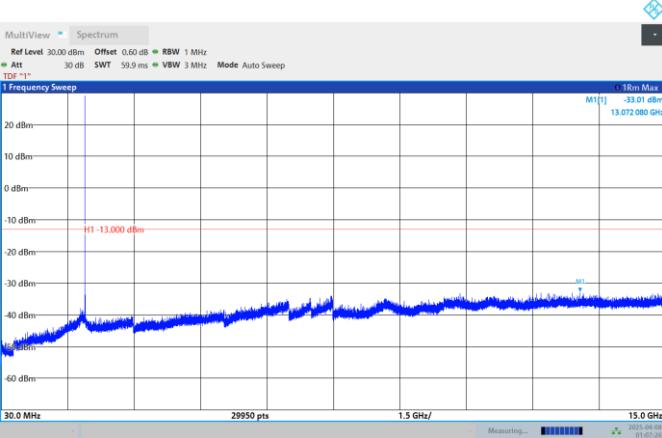




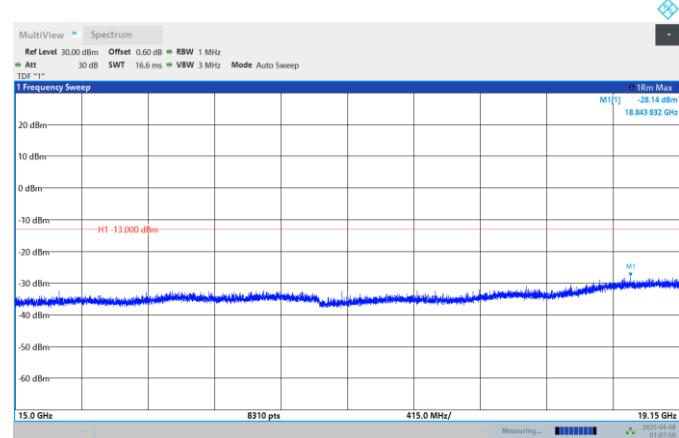
Band25-1.4MHz-QPSK-26683-1RB#0-  
Range:30~15000MHz



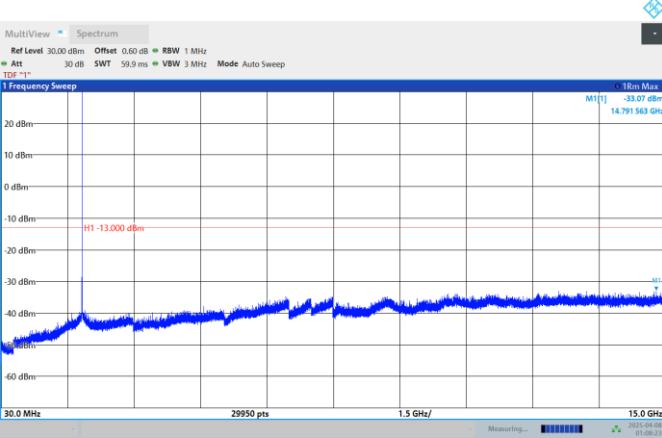
Band25-1.4MHz-QPSK-26683-1RB#0-  
Range:15000MHz~19150MHz



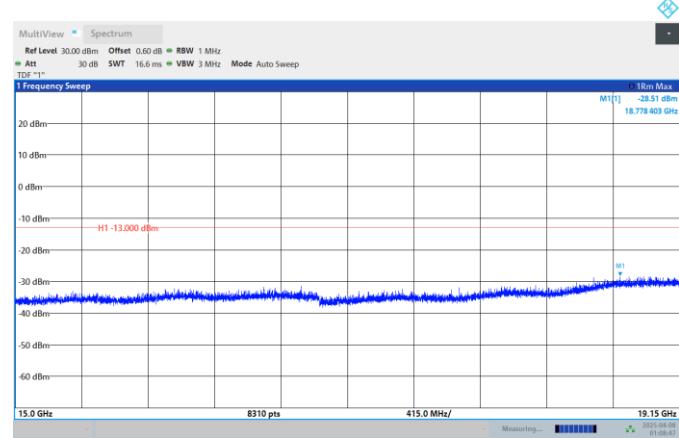
Band25-3MHz-QPSK-26055-1RB#0-Range:30~15000MHz



Band25-3MHz-QPSK-26055-1RB#0-  
Range:15000MHz~19150MHz



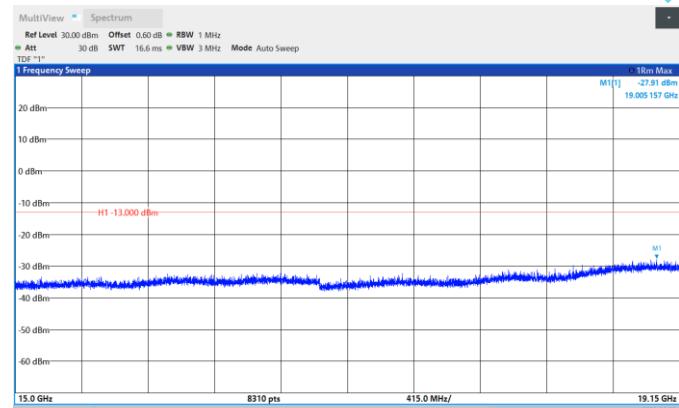
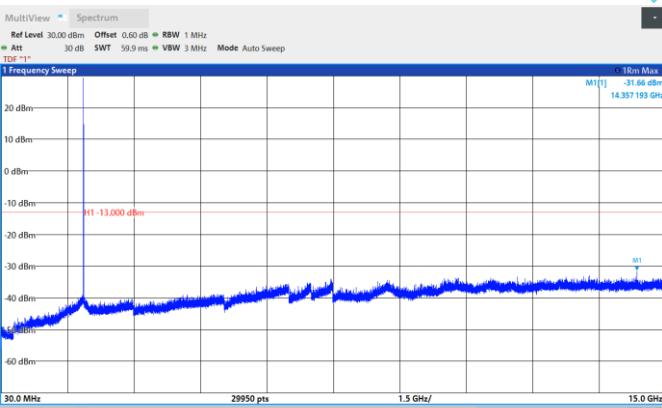
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Band25-3MHz-QPSK-26340-1RB#0-  
Range:15000MHz~19150MHz

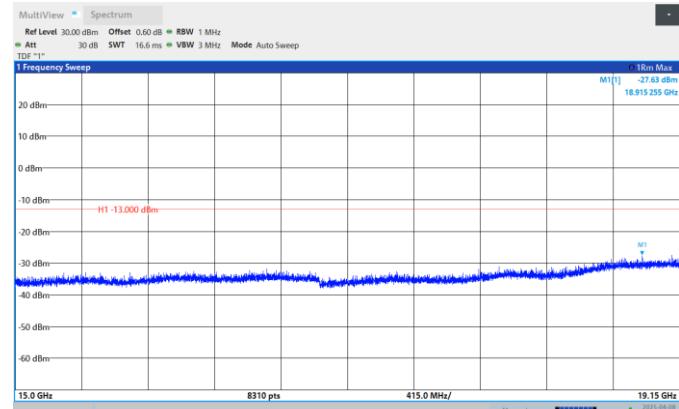
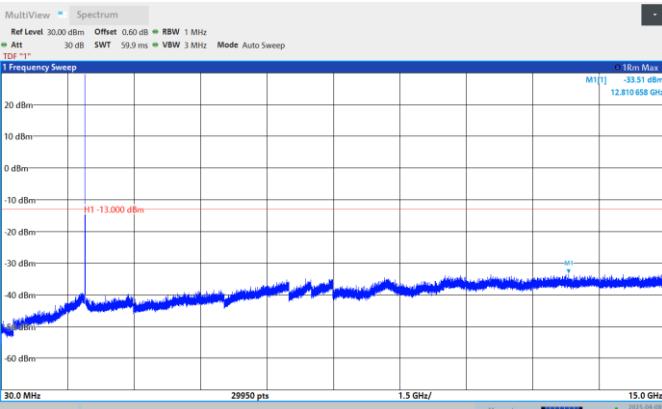


BUREAU  
VERITAS Test Report No.: PSU-QSU2503280115RI02



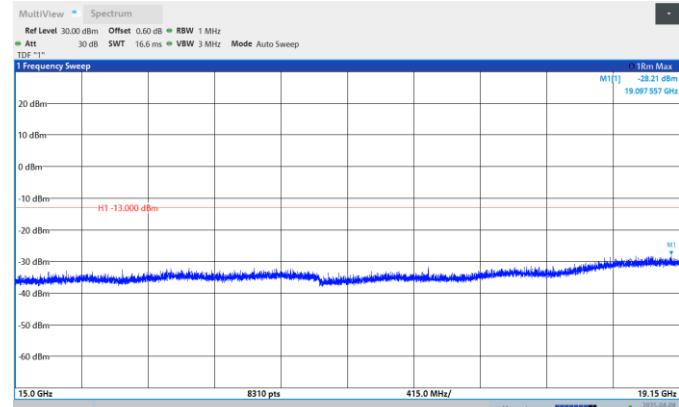
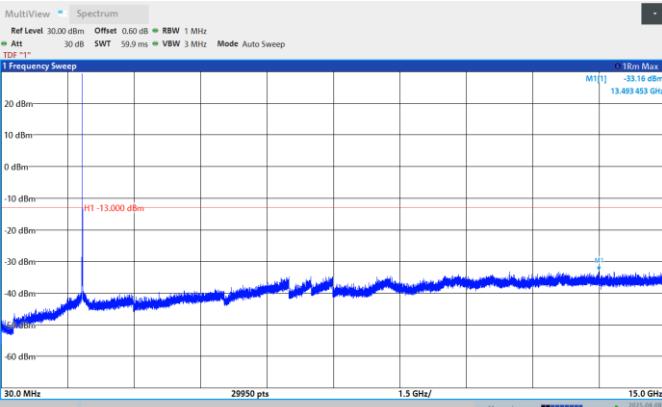
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Band25-3MHz-QPSK-26675-1RB#0-  
Range:15000MHz~19150MHz



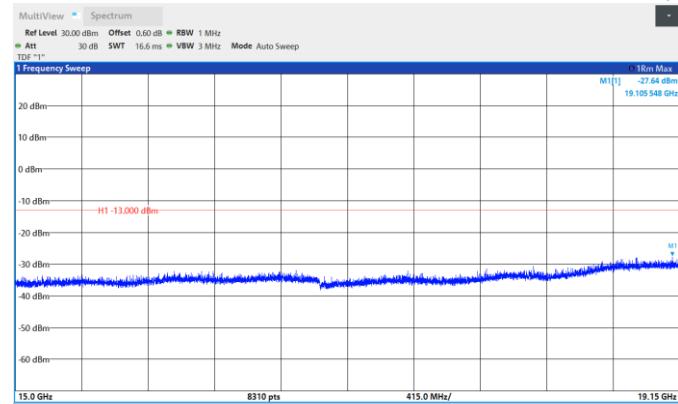
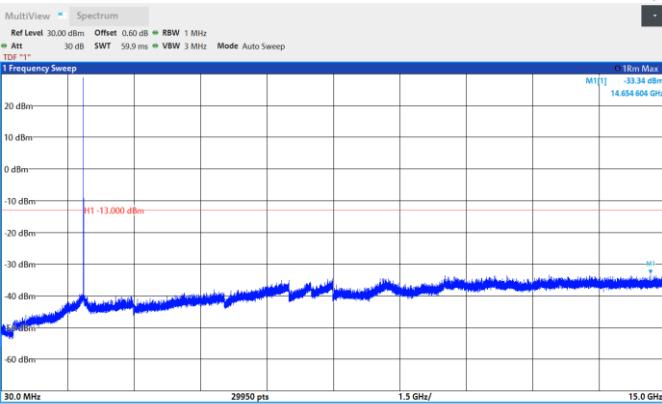
Band25-5MHz-QPSK-26065-1RB#0-Range:30~15000MHz

Band25-5MHz-QPSK-26065-1RB#0-  
Range:15000MHz~19150MHz



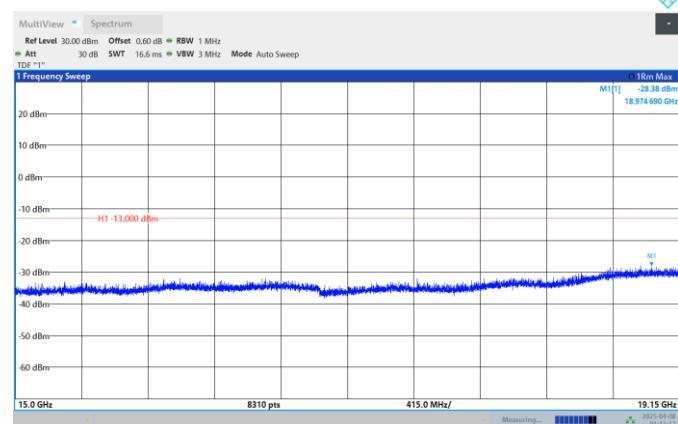
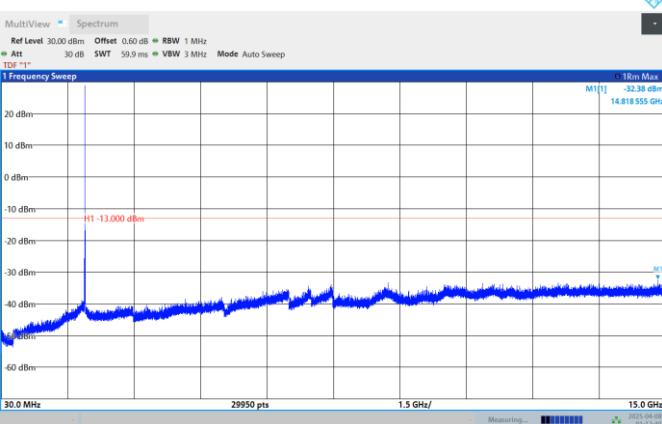
Band25-5MHz-QPSK-26340-1RB#0-Range:30~15000MHz

Band25-5MHz-QPSK-26340-1RB#0-  
Range:15000MHz~19150MHz



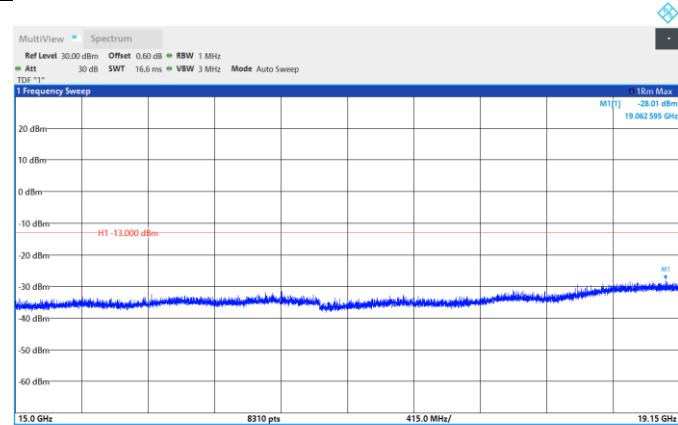
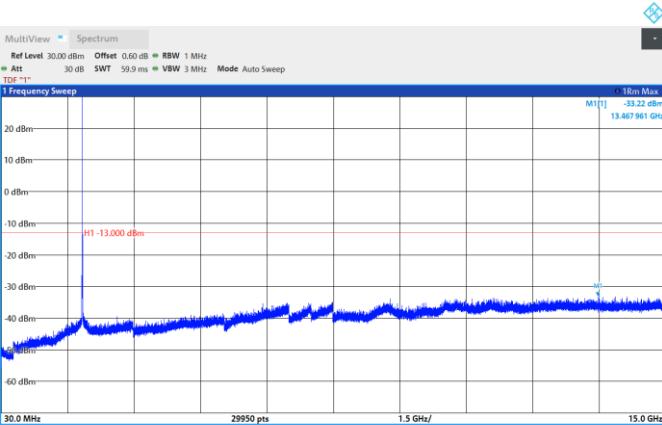
Band25-5MHz-QPSK-26665-1RB#0-Range:30~15000MHz

Band25-5MHz-QPSK-26665-1RB#0-  
Range:15000MHz~19150MHz



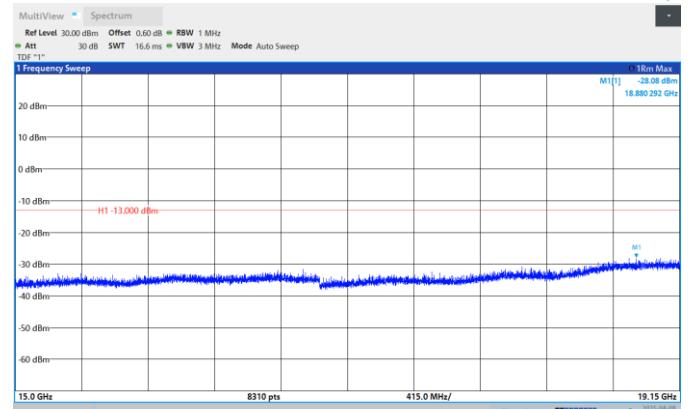
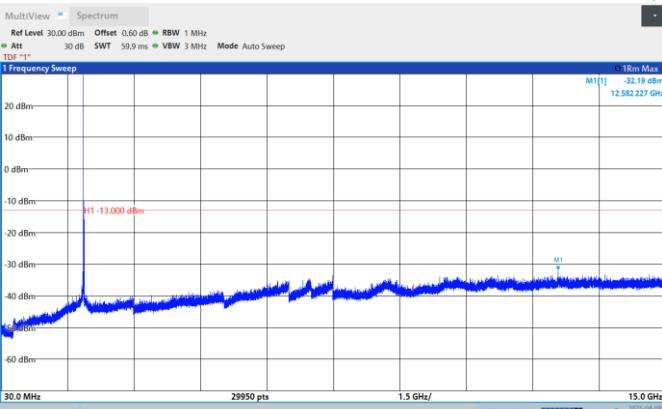
Band25-10MHz-QPSK-26090-1RB#0-Range:30~15000MHz

Band25-10MHz-QPSK-26090-1RB#0-  
Range:15000MHz~19150MHz



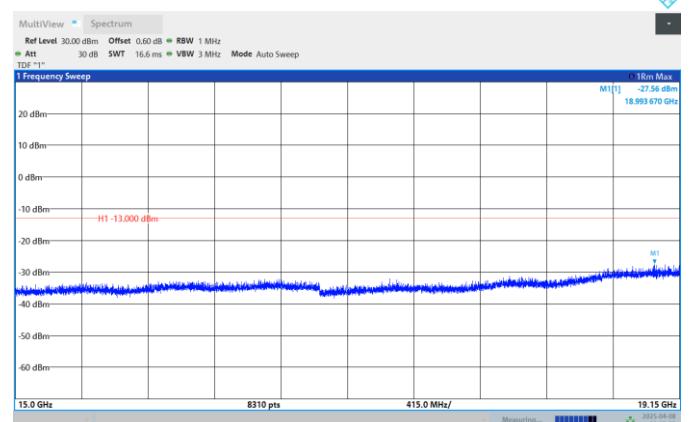
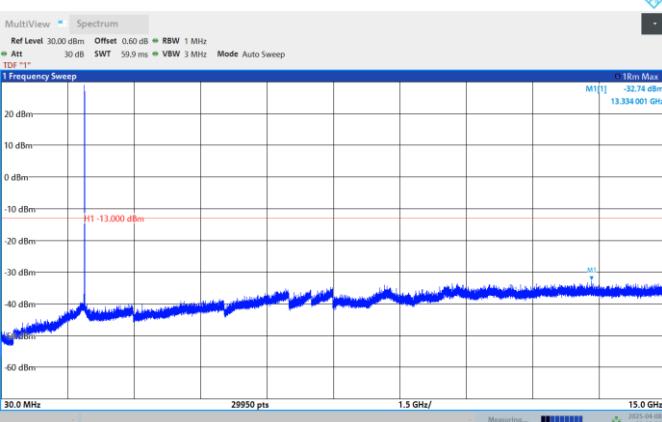
Band25-10MHz-QPSK-26340-1RB#0-Range:30~15000MHz

Band25-10MHz-QPSK-26340-1RB#0-  
Range:15000MHz~19150MHz



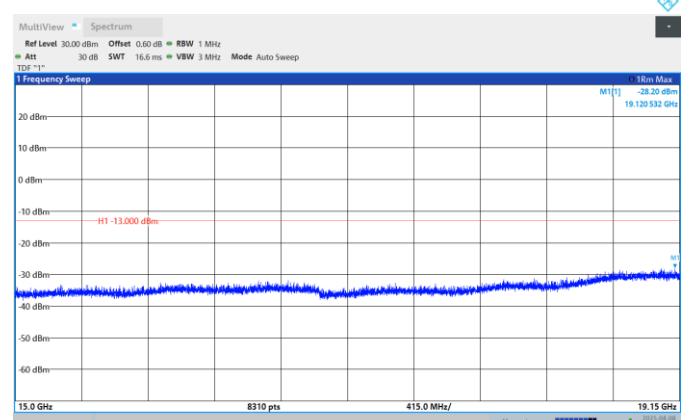
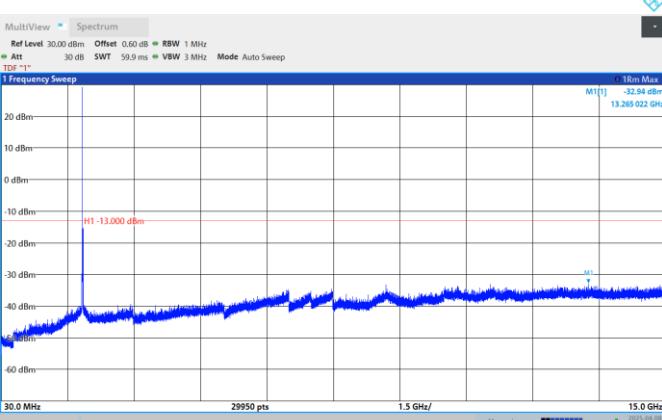
Band25-10MHz-QPSK-26640-1RB#0-Range:30~15000MHz

Band25-10MHz-QPSK-26640-1RB#0-  
Range:15000MHz~19150MHz



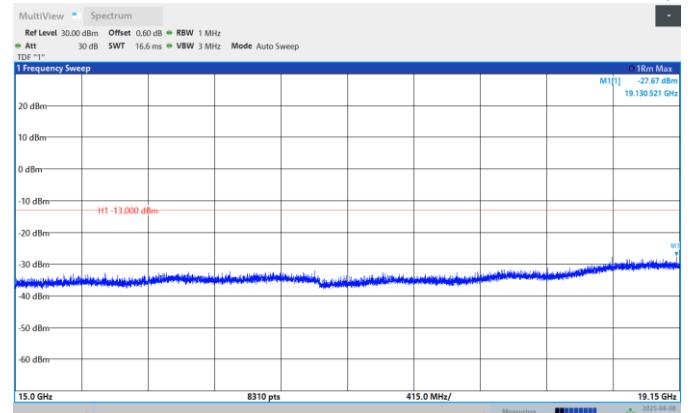
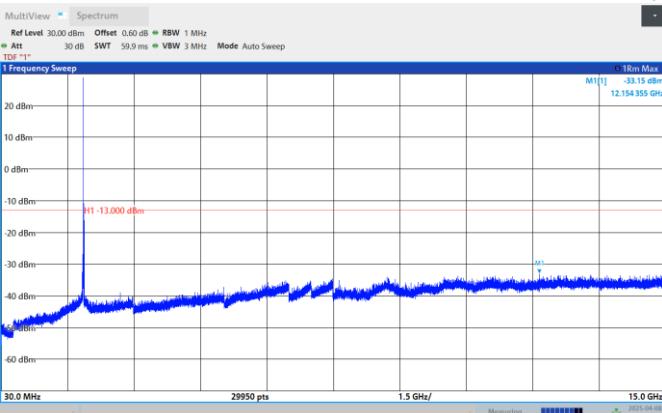
Band25-15MHz-QPSK-26115-1RB#0-Range:30~15000MHz

Band25-15MHz-QPSK-26115-1RB#0-  
Range:15000MHz~19150MHz



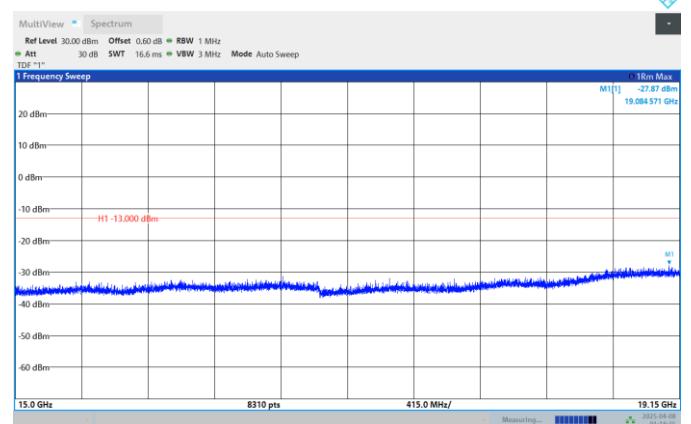
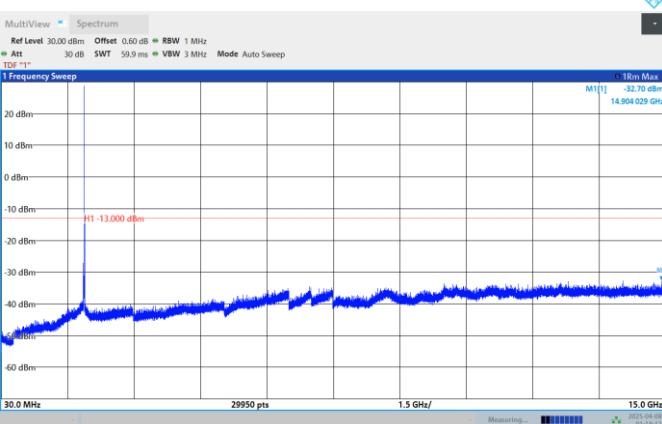
Band25-15MHz-QPSK-26340-1RB#0-Range:30~15000MHz

Band25-15MHz-QPSK-26340-1RB#0-  
Range:15000MHz~19150MHz



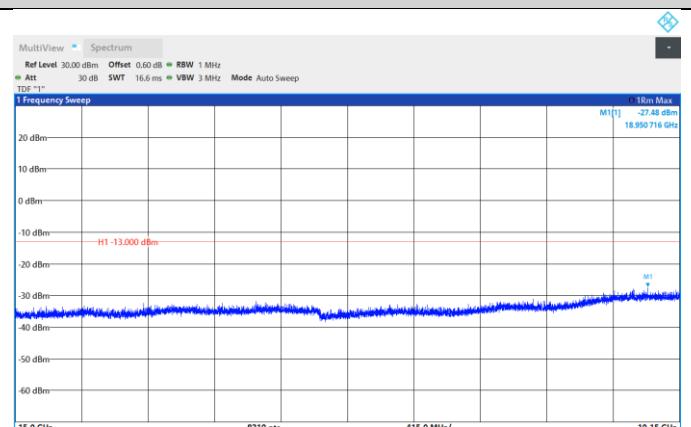
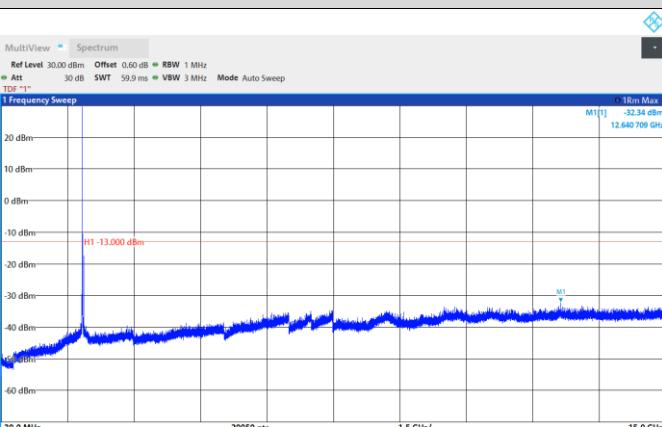
Band25-15MHz-QPSK-26615-1RB#0-Range:30~15000MHz

Band25-15MHz-QPSK-26615-1RB#0-  
Range:15000MHz~19150MHz



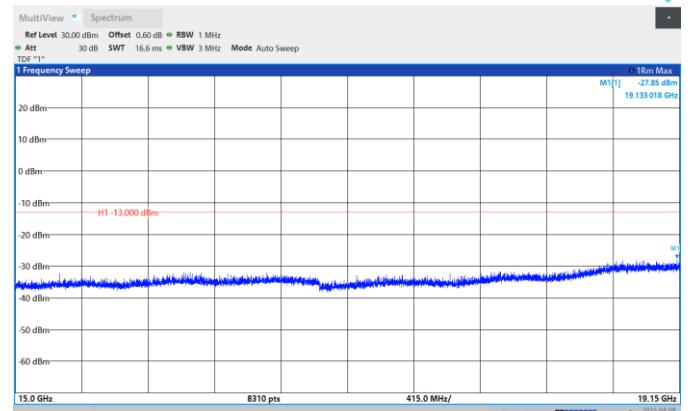
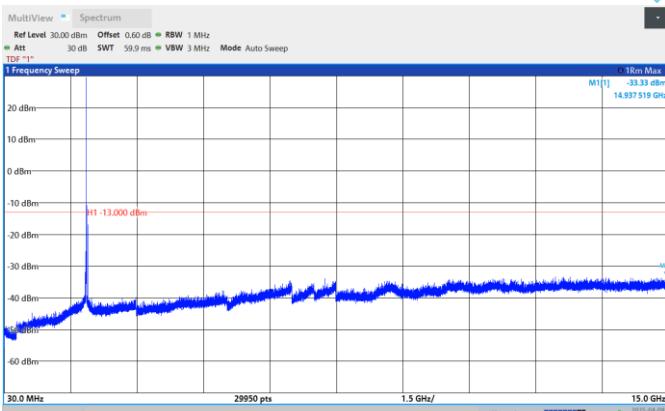
Band25-20MHz-QPSK-26140-1RB#0-Range:30~15000MHz

Band25-20MHz-QPSK-26140-1RB#0-  
Range:15000MHz~19150MHz



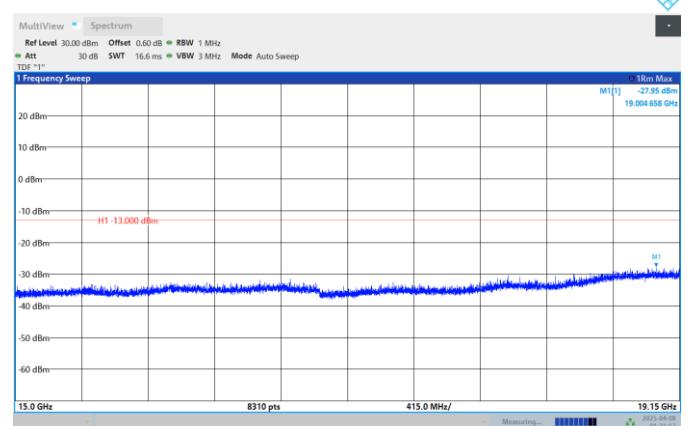
Band25-20MHz-QPSK-26340-1RB#0-Range:30~15000MHz

Band25-20MHz-QPSK-26340-1RB#0-  
Range:15000MHz~19150MHz



Band25-20MHz-QPSK-26590-1RB#0-Range:30~15000MHz

Band25-20MHz-QPSK-26590-1RB#0-  
Range:15000MHz~19150MHz



**FREQUENCY STABILITY****TEST RESULT**

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	LV	NT	-18.40	-0.0099	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	NT	1.90	0.0010	PASS
Band25	20MHz	QPSK	26140	100RB#0	HV	NT	13.20	0.0071	PASS
Band25	20MHz	QPSK	26340	100RB#0	LV	NT	-7.60	-0.0040	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	NT	0.30	0.0002	PASS
Band25	20MHz	QPSK	26340	100RB#0	HV	NT	-12.50	-0.0066	PASS
Band25	20MHz	QPSK	26590	100RB#0	LV	NT	22.00	0.0115	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	NT	-13.30	-0.0070	PASS
Band25	20MHz	QPSK	26590	100RB#0	HV	NT	7.10	0.0037	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	NV	-30	26.00	0.0140	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	-20	-26.20	-0.0141	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	-10	-23.70	-0.0127	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	0	-25.70	-0.0138	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	10	-1.90	-0.0010	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	20	27.70	0.0149	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	30	9.90	0.0053	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	40	14.00	0.0075	PASS
Band25	20MHz	QPSK	26140	100RB#0	NV	50	-6.70	-0.0036	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	-30	14.00	0.0074	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	-20	14.70	0.0078	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	-10	26.80	0.0143	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	0	29.10	0.0155	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	10	-25.10	-0.0134	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	20	19.80	0.0105	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	30	-3.50	-0.0019	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	40	4.90	0.0026	PASS
Band25	20MHz	QPSK	26340	100RB#0	NV	50	-20.10	-0.0107	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	-30	29.20	0.0153	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	-20	-1.30	-0.0007	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	-10	14.00	0.0073	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	0	28.70	0.0151	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	10	16.70	0.0088	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	20	-28.50	-0.0150	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	30	23.50	0.0123	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	40	-32.30	-0.0170	PASS
Band25	20MHz	QPSK	26590	100RB#0	NV	50	-27.60	-0.0145	PASS



### MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L -  \text{MAX}(\Delta f) $	1851.076500	$\geq 1850$	PASS
$f_H +  \text{MAX}(\Delta f) $	1,913.97500	$\leq 1915$	

Note:

1.  $|\text{MAX}(\Delta f)|$  = Max Deviation
2.  $f_L$  = Occ low channel  $f_l(-13\text{dBm}/\text{MHz})$
3.  $f_H$  = Occ High channel  $f_H(-13\text{dBm}/\text{MHz})$
4.  $|\text{MAX}(\Delta f)| = 32.30\text{Hz}$ .

--END--