



RF TEST REPORT

Product Name: TANK

Model Name: TANK 01

FCC ID: 2AK6CTANK01

Issued For : Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508Chundong Rd, Minhang district
Shanghai, China 201108

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,
No.177 Renmin West Road, Jinsha Community, Kengzi
Street, Pingshan New District, Shenzhen, China

Report Number: LGT22J019RF16

Sample Received Date: October 14, 2022

Date of Tested: October 14, 2022 – Nov 18, 2022

Date of Issue: Nov 18, 2022

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TEST REPORT CERTIFICATION

Applicant Shanghai Unihertz E-Commerce Co., Ltd
Address Room 308, Building C, 508Chundong Rd, Minhang district
Shanghai, China 201108
Manufacturer OBLUE Communication Technology Co., Ltd.
Address Room 702, Hepingdayou industrial and trade industrial
park, No. 41, Yonghe Road, Heping Community, Fuhai
Street, Baoan District, Shenzhen City, China
Product Name TANK
Trademark Unihertz
Model Name TANK 01
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 22H and 24E, 27, 90 KDB 971168 D01 v03r01, ANSI C63.26(2015)	PASS

Prepared by:

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Technical Director



Table of Contents	Page
1. TEST FACTORY & MEASUREMENT UNCERTAINTY	4
2. GENERAL INFORMATION	6
3. CONDUCTED OUTPUT POWER	15
4. PEAK-TO-AVERAGE RATIO	16
5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER	17
6. OCCUPIED BANDWIDTH	19
7. CONDUCTED BAND EDGE	20
8. CONDUCTED SPURIOUS EMISSION	22
9. RADIATED SPURIOUS EMISSION	23
10. FREQUENCY STABILITY	25
APPENDIX I-PHOTOS OF TEST SETUP	26
APPENDIX II-TEST DATA	26
01 FREQUENCY STABILITY	26
02 PEAK-TO-AVERAGE RATIO	29
03 OCCUPIED BANDWIDTH	210
04 BAND EDGE	391
05 OUT-OF-BAND EMISSIONS	516
06 CONDUCTED OUTPUT POWER	702
07 RADIATED SPURIOUS EMISSION	762

Revision History

Rev.	Issue Date	Contents
00	Nov 18, 2022	Initial Issue

1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 3.2 \%$
RF Output Power, Conducted	$\pm 0.87\text{dB}$
Power Spectral Density, Conducted	$\pm 2.11 \text{ dB}$
Unwanted Emission, Conducted	$\pm 0.86\text{dB}$
All Emissions, Radiated (Below 1GHz)	$\pm 3.54\text{dB}$
All Emissions, Radiated (1GHz-18GHz)	$\pm 4.22\text{dB}$
All Emissions, Radiated (18GHz-25GHz)	$\pm 4.81\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	TANK
Trademark	Unihertz
Model Name	TANK 01
Series Model	N/A
Model Difference	N/A
Frequency Bands	U.S. Bands: LTE FDD Band 2 LTE FDD Band 4 LTE FDD Band 5 LTE FDD Band 7 LTE FDD Band 12 LTE FDD Band 13 LTE FDD Band 17 LTE FDD Band 25 LTE FDD Band 26 LTE TDD Band 38 LTE TDD Band 40 LTE TDD Band 41 LTE FDD Band 66
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna	PIFA
Antenna gain	LTE B2: 0.7dBi, LTE B4: 0.7dBi, LTE B5: -1.8dBi, LTE B7: 0.7dBi, LTE B12: -2.2dBi, LTE B13: -2dBi, LTE B17:-2.2dBi, LTE B25: 0.7dBi, LTE B26: -1.8dBi, LTE B38: 0.7dBi, LTE B40: 0.7dBi, LTE B41: 0.7dBi, LTE B66: 0.7dBi
Battery parameter	Capacity: 22000mAh Rated Voltage: 3.87V Charge Limit Voltage:4.45V
Adapter:	Model: HJ-PD66W-US Input: 100-240V, 50/60Hz, 1.5A Output: 5V, 3A 15W or 9V, 3A 27W or 12V, 3A 36W or 15V, 3A 45W or 20V, 3.25A 65W or 11V, 6A 66W MAX
Extreme Vol. Limits	4.35V to 3.5V (Nominal 3.87V)

Extreme Temp. Tolerance	-0°C to +40°C
Hardware version number	G86_V1.1
Software version number	TANK 01_20221103

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sa-mple identified in the report.

2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5: 824~849MHz LTE Band 7:2500~2570MHz LTE Band 12: 699-716MHz LTE Band 13: 777-787MHz LTE Band 17:704~716MHz LTE Band 25: 1850-1915MHz LTE Band 26: 814-824MHz LTE Band 26: 824-849MHz LTE Band 38: 2570-2620MHz LTE Band 40: 2305-2315/2350-2360MHz LTE Band 41: 2555-2655MHz LTE Band 66: 1710-1780MHz
Rx Frequency	LTE Band 2: 1930-1990MHz LTE Band 4: 2110-2155MHz LTE Band 5: 869-894MHz LTE Band 7: 2620-2690MHz LTE Band 12: 729-746MHz LTE Band 13: 746-756MHz LTE Band 17: 734-746MHz LTE Band 25: 1930-1995MHz LTE Band 26: 859-869MHz LTE Band 26: 869-894MHz LTE Band 38: 2570-2620MHz LTE Band 40: 2305-2315MHz 2350-2360MHz LTE Band 41: 2496-2690MHz LTE Band 66: 2110-2200MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7: 5MHz / 10MHz / 15MHz /20MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 17: 5MHz / 10MHz LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz/15MHz LTE Band 38: 5MHz / 10MHz / 15MHz /20MHz LTE Band 40: 5MHz / 10MHz LTE Band 41: 5MHz / 10MHz / 15MHz /20MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz
Type of Modulation	QPSK /16QAM

2.1.3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

1. The mark 'v' means that this configuration is chosen for testing
2. The mark '-' means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v		v	
	17			v	v			v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v		v	v	v	v	v	v	v	v
	38			v	v	v	v	v	v	v	v	v	v	v	v
	40			v	v			v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak&Average Ratio	2						v	v	v	v		v	v	v	v
	4						v	v	v	v		v	v	v	v
	5				v			v	v	v		v	v	v	v
	7						v	v	v	v		v	v	v	v
	12				v			v	v	v		v	v	v	v
	13				v			v	v	v		v		v	
	17				v			v	v	v		v	v	v	v
	25						v	v	v	v		v	v	v	v
	26					v		v	v	v		v	v	v	v
	38						v	v	v	v		v	v	v	v
	40				v			v	v	v		v		v	
	41						v	v	v	v		v	v	v	v
	66						v	v	v	v		v	v	v	v

26dB&99% Bandwidth	2	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v			v	v			v	v	v	v
	7			v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v			v	v			v	v	v	v
	13			v	v			v	v			v		v	
	17			v	v			v	v			v	v	v	v
	25	v	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v		v	v			v	v	v	v
	38			v	v	v	v	v	v	v	v	v	v	v	v
	40			v	v			v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v			v	v	v	v
	66	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v		v	v	v	v
	4	v	v	v	v	v	v	v	v	v		v	v	v	v
	5	v	v	v	v			v	v	v		v	v	v	v
	7			v	v	v	v	v	v	v		v	v	v	v
	12	v	v	v	v			v	v	v		v	v	v	v
	13			v	v			v	v	v		v		v	
	17			v	v			v	v	v		v	v	v	v
	25	v	v	v	v	v	v	v	v	v		v	v	v	v
	26	v	v	v	v	v		v	v	v		v	v	v	v
	38			v	v	v	v	v	v	v	v	v	v	v	v
	40			v	v			v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v		v	v	v	v
	66	v	v	v	v	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v			v	v	v			v	v	v
	7			v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v			v	v	v			v	v	v
	13			v	v			v	v	v				v	
	17			v	v			v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v		v	v	v			v	v	v
	38			v	v	v	v	v	v	v	v	v	v	v	v
	40			v	v			v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v

Frequency Stability	2				v			v				v		v	
	4				v			v				v		v	
	5				v			v				v		v	
	7				v			v				v		v	
	12				v			v				v		v	
	13				v			v				v		v	
	17				v			v				v		v	
	25				v			v				v		v	
	26				v			v				v		v	
	38						v	v	v	v		v	v	v	v
	40				v			v	v	v		v		v	
	41				v			v				v		v	
	66				v			v				v		v	
E.R.P.& E.I.R.P.	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v			v	v	v	v	v	v	v	v
	7			v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v			v	v	v	v	v	v	v	v
	13			v	v			v	v	v	v	v		v	
	17			v	v			v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v		v	v	v	v	v	v	v	v
	38			v	v	v	v	v	v	v	v	v	v	v	v
	40			v	v			v	v	v	v	v	v	v	v
	41			v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v			v		v			v	v	v
	7			v	v	v	v	v		v			v	v	v
	12	v	v	v	v			v		v			v	v	v
	13			v	v			v		v				v	
	17			v	v			v		v			v	v	v
	25	v	v	v	v	v	v	v		v			v	v	v
	26	v	v	v	v	v		v		v			v	v	v
	38			v	v	v	v	v	v	v	v	v	v	v	v
	40			v	v			v	v	v	v	v	v	v	v
	41			v	v	v	v	v		v			v	v	v
	66	v	v	v	v	v	v	v		v			v	v	v

2.1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27.

2.1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.6 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.7 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.1.8 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

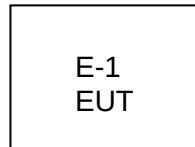


Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	Length	Note
N/A				N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.

2.1.9 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01
Spectrum Analyzer	Kesight	N9010B	MY60242508	2022.04.29	2023.04.28
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2024.06.04
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2024.06.01
Pre-amplifier(0.1M-3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12
RE Cable (9K-1G)	N.A	R01	N.A	2022.05.05	2023.05.04
RE Cable (1-26G)	N.A	R02	N.A	2022.05.05	2023.05.04
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Wireless Communications Test Set	R&S	CMW 500	137737	2022.04.29	2023.04.28
MXG Vector Signal Generator	keysight	N5182B	MY59100717	2022.06.02	2023.06.01
RF Automatic Test system	MW	MW100-RFCB	MW220324LG-33	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28
Testing Software	MTS8200_V2.0.0.0				

3. CONDUCTED OUTPUT POWER

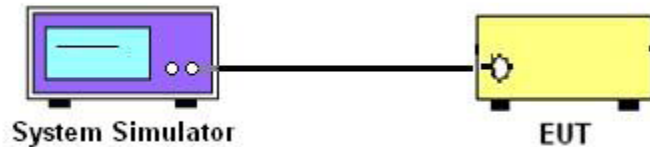
3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

3.1.1 MEASUREMENT METHOD

A system simulator was used to establish communication with the eut. Its parameters were set to force the eut transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Configuration follows KDB 971168 D01 v03r01.

3.1.2 TEST SETUP



3.1.3 TEST PROCEDURES

1. The transmitter output port was connected to system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest/middle/highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.1.4 TEST RESULTS

Note: Test chart See Appendix II

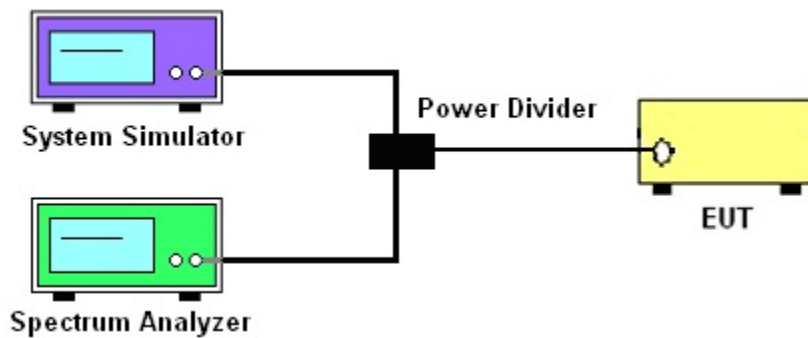
4. PEAK-TO-AVERAGE RATIO

4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:
 $PAPR\ (dB) = PPk\ (dBm) - PAvg\ (dBm)$.

4.1.2 TEST SETUP



4.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the peak and average power of the spectrum analyzer
5. Record the deviation as Peak to Average Ratio.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG	PK/AVG
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

4.1.4 TEST RESULTS

Note: Test chart See Appendix II

5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

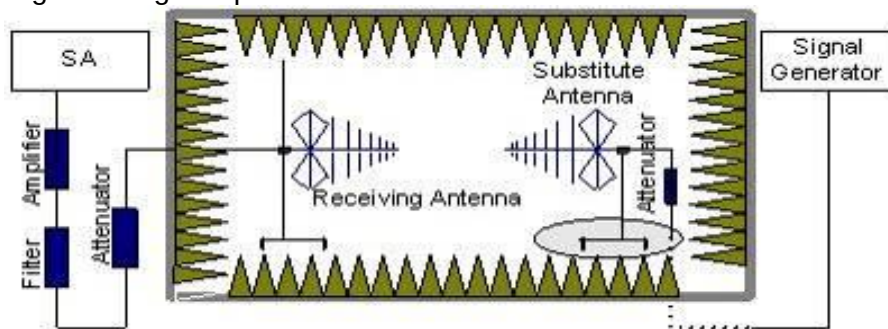
5.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

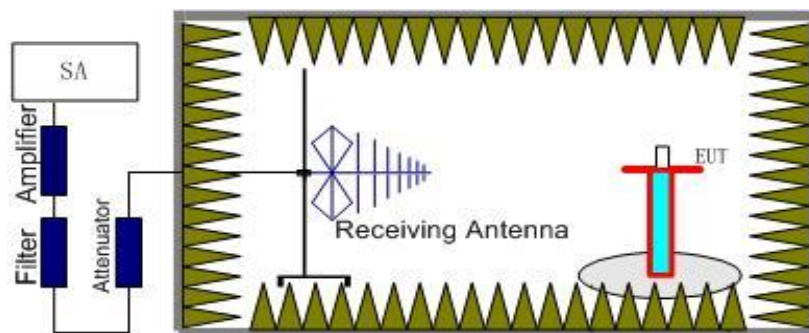
5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = R_x \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + \text{Gain (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.



b) EUT was placed on a 1.5m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$\text{Power} = \text{PMea} + \text{ARpl}$

5.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6 and ANSI C63.26 2015 Section 5.2.
2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 m in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. $EIRP = S.G \text{ Level} + \text{Gain} - \text{Cable loss}$; $ERP = S.G \text{ Level} + \text{Gain} - \text{Cable loss} - 2.15$.
5. RB Set greater than bandwidth, VB Set spectrum analyzer Maximum support.

5.1.4 TEST RESULTS

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.

Note: Test chart See Appendix II

6. OCCUPIED BANDWIDTH

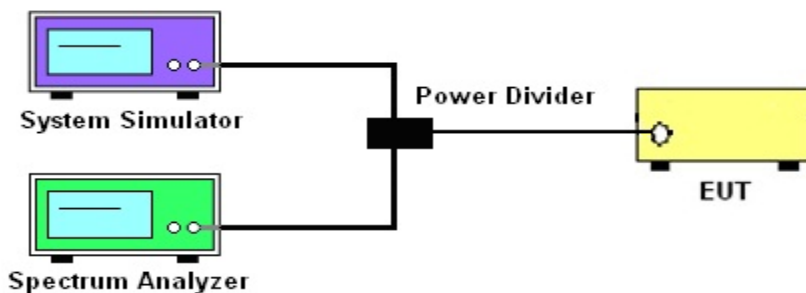
6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

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

2. The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

6.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix II

7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, 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. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

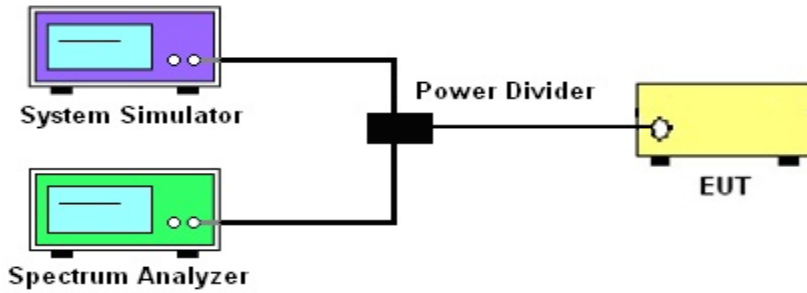
4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

7.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix II

8. CONDUCTED SPURIOUS EMISSION

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

8.1.1 MEASUREMENT METHOD

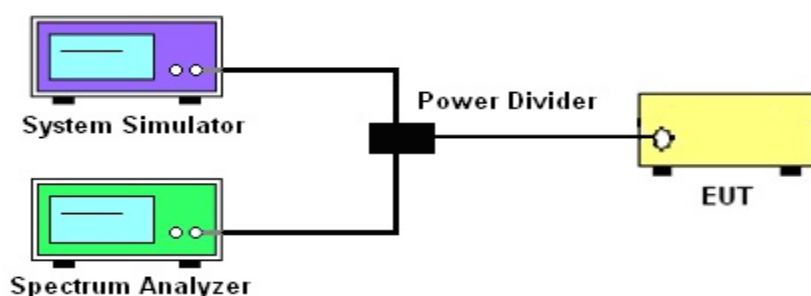
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	Auto	Auto	Auto	Auto	Auto	Auto
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max

8.1.4 TEST RESULTS

Note: Test chart See Appendix II

9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.

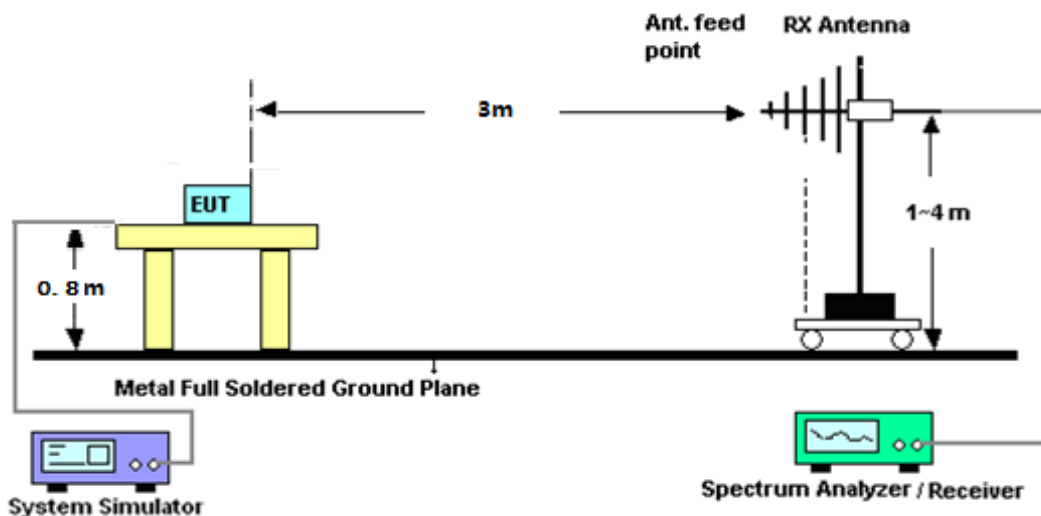
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

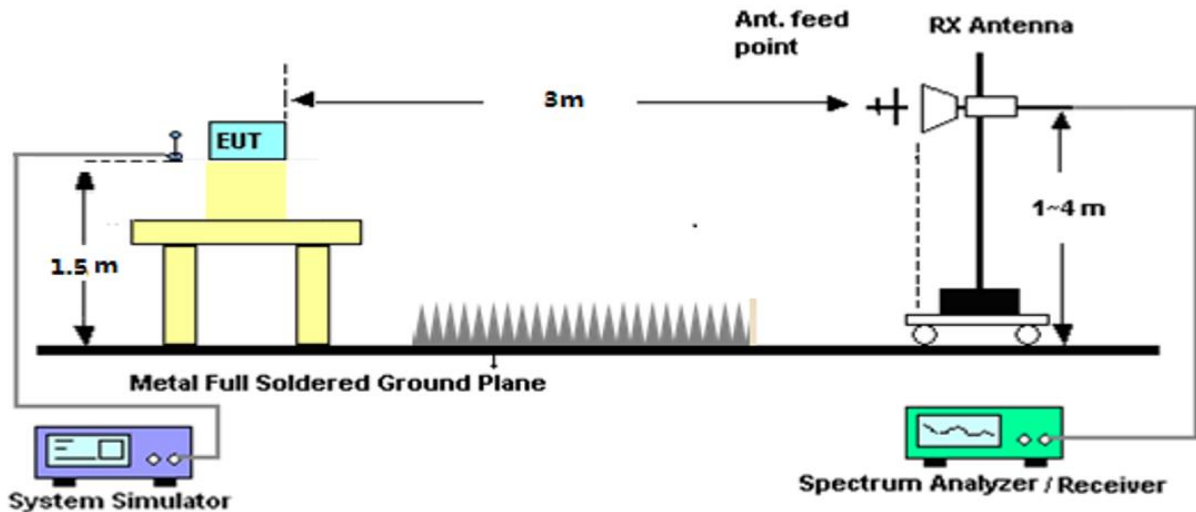
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$Power = P_{Mea} + AR_{pl}$

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



9.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$
 $= -13\text{dBm}$

For Band 7:

The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
 $= [30 + 10\log(P)] (\text{dBm}) - [55 + 10\log(P)] (\text{dB})$
 $= -25\text{dBm}$

$P_{\text{Mea}} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{\text{Mea}} - \text{Limit}.$

9.1.4 TEST RESULTS

Note: Test chart See Appendix II

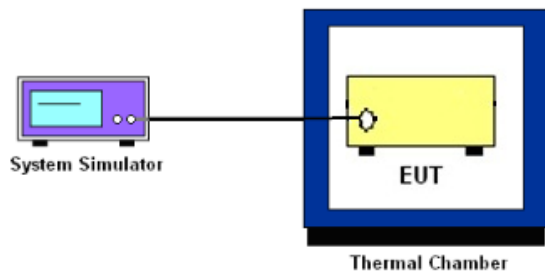
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

10.1.5 TEST RESULTS

Note: Test chart See Appendix II

APPENDIX I-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

APPENDIX II-TEST DATA

01 Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
Band2	20	18700	100	#0	QPSK	-2.49	-0.001	-2.5	2.5	PASS
Band2	20	18700	100	#0	16QAM	-0.82	0.000	-2.5	2.5	PASS
Band2	20	18900	100	#0	QPSK	-0.80	0.000	-2.5	2.5	PASS
Band2	20	18900	100	#0	16QAM	0.80	0.000	-2.5	2.5	PASS
Band2	20	19100	100	#0	QPSK	-1.86	-0.001	-2.5	2.5	PASS
Band2	20	19100	100	#0	16QAM	1.69	0.001	-2.5	2.5	PASS
Band4	20	20050	100	#0	QPSK	0.47	0.000	-2.5	2.5	PASS
Band4	20	20050	100	#0	16QAM	-1.77	-0.001	-2.5	2.5	PASS
Band4	20	20175	100	#0	QPSK	-4.08	-0.002	-2.5	2.5	PASS
Band4	20	20175	100	#0	16QAM	-1.93	-0.001	-2.5	2.5	PASS
Band4	20	20300	100	#0	QPSK	2.63	0.002	-2.5	2.5	PASS
Band4	20	20300	100	#0	16QAM	1.22	0.001	-2.5	2.5	PASS
Band5	10	20450	50	#0	QPSK	-3.30	-0.004	-2.5	2.5	PASS
Band5	10	20450	50	#0	16QAM	-4.63	-0.006	-2.5	2.5	PASS
Band5	10	20525	50	#0	QPSK	-1.42	-0.002	-2.5	2.5	PASS
Band5	10	20525	50	#0	16QAM	-1.62	-0.002	-2.5	2.5	PASS
Band5	10	20600	50	#0	QPSK	-2.37	-0.003	-2.5	2.5	PASS
Band5	10	20600	50	#0	16QAM	-3.55	-0.004	-2.5	2.5	PASS
Band7	20	20850	100	#0	QPSK	-2.20	-0.001	-2.5	2.5	PASS
Band7	20	20850	100	#0	16QAM	-1.60	-0.001	-2.5	2.5	PASS
Band7	20	21100	100	#0	QPSK	-1.32	-0.001	-2.5	2.5	PASS
Band7	20	21100	100	#0	16QAM	0.14	0.000	-2.5	2.5	PASS
Band7	20	21350	100	#0	QPSK	0.19	0.000	-2.5	2.5	PASS
Band7	20	21350	100	#0	16QAM	-2.37	-0.000	-2.5	2.5	PASS

			0				1			
Band12	10	23060	50	#0	QPSK	-0.13	0.00 0	-2.5	2.5	PASS
Band12	10	23060	50	#0	16QAM	-3.30	-0.00 5	-2.5	2.5	PASS
Band12	10	23095	50	#0	QPSK	-0.87	-0.00 1	-2.5	2.5	PASS
Band12	10	23095	50	#0	16QAM	-3.35	-0.00 5	-2.5	2.5	PASS
Band12	10	23130	50	#0	QPSK	-5.35	-0.00 8	-2.5	2.5	PASS
Band12	10	23130	50	#0	16QAM	-3.56	-0.00 5	-2.5	2.5	PASS
Band13	10	23230	50	#0	QPSK	-2.49	-0.00 3	-2.5	2.5	PASS
Band13	10	23230	50	#0	16QAM	-3.29	-0.00 4	-2.5	2.5	PASS
Band17	10	23780	50	#0	QPSK	-1.17	-0.00 2	-2.5	2.5	PASS
Band17	10	23780	50	#0	16QAM	-1.80	-0.00 3	-2.5	2.5	PASS
Band17	10	23790	50	#0	QPSK	-1.50	-0.00 2	-2.5	2.5	PASS
Band17	10	23790	50	#0	16QAM	-4.61	-0.00 6	-2.5	2.5	PASS
Band17	10	23800	50	#0	QPSK	-6.25	-0.00 9	-2.5	2.5	PASS
Band17	10	23800	50	#0	16QAM	-2.37	-0.00 3	-2.5	2.5	PASS
Band25	20	26140	10 0	#0	QPSK	-2.85	-0.00 2	-2.5	2.5	PASS
Band25	20	26140	10 0	#0	16QAM	-6.29	-0.00 3	-2.5	2.5	PASS
Band25	20	26365	10 0	#0	QPSK	1.23	0.00 1	-2.5	2.5	PASS
Band25	20	26365	10 0	#0	16QAM	-3.19	-0.00 2	-2.5	2.5	PASS
Band25	20	26590	10 0	#0	QPSK	5.11	0.00 3	-2.5	2.5	PASS
Band25	20	26590	10 0	#0	16QAM	2.79	0.00 1	-2.5	2.5	PASS
Band26(824-849)	15	26865	75	#0	QPSK	-2.83	-0.00 3	-2.5	2.5	PASS
Band26(824-849)	15	26865	75	#0	16QAM	-3.10	-0.00 4	-2.5	2.5	PASS
Band26(824-849)	15	26915	75	#0	QPSK	-0.70	-0.00 1	-2.5	2.5	PASS
Band26(824-849)	15	26915	75	#0	16QAM	-2.76	-0.00 3	-2.5	2.5	PASS
Band26(824-849)	15	26965	75	#0	QPSK	-0.03	0.00 0	-2.5	2.5	PASS
Band26(824-849)	15	26965	75	#0	16QAM	-2.89	-0.00 3	-2.5	2.5	PASS
Band26(814-824)	5	26715	25	#0	QPSK	-0.01	-0.00 4	-2.5	2.5	PASS
Band26(814-824)	5	26715	25	#0	16QAM	0.02	0.00 4	-2.5	2.5	PASS
Band26(814-824)	5	26740	25	#0	QPSK	0.12	0.00 1	-2.5	2.5	PASS

Band26(814-824)	5	26740	25	#0	16QAM	0.37	-0.00 1	-2.5	2.5	PASS
Band26(814-824)	5	26765	25	#0	QPSK	-2.01	0.00 0	-2.5	2.5	PASS
Band26(814-824)	5	26765	25	#0	16QAM	0.97	0.00 1	-2.5	2.5	PASS
Band38	20	37850	10 0	#0	QPSK	-2.17	-0.00 1	-2.5	2.5	PASS
Band38	20	37850	10 0	#0	16QAM	-5.25	-0.00 2	-2.5	2.5	PASS
Band38	20	38000	10 0	#0	QPSK	-4.86	-0.00 2	-2.5	2.5	PASS
Band38	20	38000	10 0	#0	16QAM	-2.03	-0.00 1	-2.5	2.5	PASS
Band38	20	38150	10 0	#0	QPSK	-2.96	-0.00 1	-2.5	2.5	PASS
Band38	20	38150	10 0	#0	16QAM	0.00	0.00 0	-2.5	2.5	PASS
Band40(2305-23 15)	10	38750	50	#0	QPSK	-1.14	0.00 0	-2.5	2.5	PASS
Band40(2305-23 15)	10	38750	50	#0	16QAM	-2.65	-0.00 1	-2.5	2.5	PASS
Band40(2350-23 60)	10	39200	50	#0	QPSK	-3.89	-0.00 2	-2.5	2.5	PASS
Band40(2350-23 60)	10	39200	50	#0	16QAM	-1.77	-0.00 1	-2.5	2.5	PASS
Band41(2555-26 55)	20	40340	10 0	#0	QPSK	3.69	0.00 1	-2.5	2.5	PASS
Band41(2555-26 55)	20	40340	10 0	#0	16QAM	-3.35	-0.00 1	-2.5	2.5	PASS
Band41(2555-26 55)	20	40740	10 0	#0	QPSK	-5.21	-0.00 2	-2.5	2.5	PASS
Band41(2555-26 55)	20	40740	10 0	#0	16QAM	-3.55	-0.00 1	-2.5	2.5	PASS
Band41(2555-26 55)	20	41140	10 0	#0	QPSK	-0.72	0.00 0	-2.5	2.5	PASS
Band41(2555-26 55)	20	41140	10 0	#0	16QAM	-4.99	-0.00 2	-2.5	2.5	PASS
Band66	20	13207 2	10 0	#0	QPSK	0.13	0.00 0	-2.5	2.5	PASS
Band66	20	13207 2	10 0	#0	16QAM	1.24	0.00 1	-2.5	2.5	PASS
Band66	20	13232 2	10 0	#0	QPSK	0.86	0.00 0	-2.5	2.5	PASS
Band66	20	13232 2	10 0	#0	16QAM	1.62	0.00 1	-2.5	2.5	PASS
Band66	20	13257 2	10 0	#0	QPSK	-0.19	0.00 0	-2.5	2.5	PASS
Band66	20	13257 2	10 0	#0	16QAM	-1.42	-0.00 1	-2.5	2.5	PASS

02 Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band2	1.4	18607	1	#0	QPSK	5.76	13	PASS
Band2	1.4	18607	1	#0	16QAM	6.51	13	PASS
Band2	1.4	18900	1	#0	QPSK	5.66	13	PASS
Band2	1.4	18900	1	#0	16QAM	6.50	13	PASS
Band2	1.4	19193	1	#0	QPSK	5.65	13	PASS
Band2	1.4	19193	1	#0	16QAM	6.35	13	PASS
Band2	3	18615	1	#0	QPSK	5.75	13	PASS
Band2	3	18615	1	#0	16QAM	6.68	13	PASS
Band2	3	18900	1	#0	QPSK	5.32	13	PASS
Band2	3	18900	1	#0	16QAM	6.03	13	PASS
Band2	3	19185	1	#0	QPSK	5.11	13	PASS
Band2	3	19185	1	#0	16QAM	5.75	13	PASS
Band2	5	18625	1	#0	QPSK	5.59	13	PASS
Band2	5	18625	1	#0	16QAM	6.14	13	PASS
Band2	5	18900	1	#0	QPSK	4.81	13	PASS
Band2	5	18900	1	#0	16QAM	5.47	13	PASS
Band2	5	19175	1	#0	QPSK	3.82	13	PASS
Band2	5	19175	1	#0	16QAM	4.60	13	PASS
Band2	10	18650	1	#0	QPSK	5.55	13	PASS
Band2	10	18650	1	#0	16QAM	6.21	13	PASS
Band2	10	18900	1	#0	QPSK	3.83	13	PASS
Band2	10	18900	1	#0	16QAM	4.66	13	PASS
Band2	10	19150	1	#0	QPSK	3.17	13	PASS
Band2	10	19150	1	#0	16QAM	4.19	13	PASS
Band2	15	18675	1	#0	QPSK	5.72	13	PASS
Band2	15	18675	1	#0	16QAM	6.38	13	PASS
Band2	15	18900	1	#0	QPSK	3.39	13	PASS
Band2	15	18900	1	#0	16QAM	4.41	13	PASS
Band2	15	19125	1	#0	QPSK	5.49	13	PASS
Band2	15	19125	1	#0	16QAM	6.19	13	PASS
Band2	20	18700	1	#0	QPSK	5.87	13	PASS
Band2	20	18700	1	#0	16QAM	6.65	13	PASS
Band2	20	18900	1	#0	QPSK	3.67	13	PASS
Band2	20	18900	1	#0	16QAM	4.74	13	PASS
Band2	20	19100	1	#0	QPSK	5.92	13	PASS
Band2	20	19100	1	#0	16QAM	6.26	13	PASS
Band4	1.4	19957	1	#0	QPSK	5.36	13	PASS
Band4	1.4	19957	1	#0	16QAM	6.11	13	PASS
Band4	1.4	20175	1	#0	QPSK	5.56	13	PASS
Band4	1.4	20175	1	#0	16QAM	6.44	13	PASS
Band4	1.4	20393	1	#0	QPSK	4.55	13	PASS
Band4	1.4	20393	1	#0	16QAM	5.26	13	PASS
Band4	3	19965	1	#0	QPSK	5.14	13	PASS
Band4	3	19965	1	#0	16QAM	5.74	13	PASS
Band4	3	20175	1	#0	QPSK	5.66	13	PASS
Band4	3	20175	1	#0	16QAM	6.70	13	PASS
Band4	3	20385	1	#0	QPSK	4.72	13	PASS
Band4	3	20385	1	#0	16QAM	5.77	13	PASS
Band4	5	19975	1	#0	QPSK	5.15	13	PASS
Band4	5	19975	1	#0	16QAM	5.74	13	PASS
Band4	5	20175	1	#0	QPSK	5.67	13	PASS
Band4	5	20175	1	#0	16QAM	6.38	13	PASS
Band4	5	20375	1	#0	QPSK	5.25	13	PASS
Band4	5	20375	1	#0	16QAM	5.81	13	PASS
Band4	10	20000	1	#0	QPSK	5.23	13	PASS

Band4	10	20000	1	#0	16QAM	6.15	13	PASS
Band4	10	20175	1	#0	QPSK	5.39	13	PASS
Band4	10	20175	1	#0	16QAM	6.09	13	PASS
Band4	10	20350	1	#0	QPSK	5.11	13	PASS
Band4	10	20350	1	#0	16QAM	5.89	13	PASS
Band4	15	20025	1	#0	QPSK	5.30	13	PASS
Band4	15	20025	1	#0	16QAM	6.04	13	PASS
Band4	15	20175	1	#0	QPSK	5.30	13	PASS
Band4	15	20175	1	#0	16QAM	5.92	13	PASS
Band4	15	20325	1	#0	QPSK	4.31	13	PASS
Band4	15	20325	1	#0	16QAM	5.20	13	PASS
Band4	20	20050	1	#0	QPSK	5.37	13	PASS
Band4	20	20050	1	#0	16QAM	6.30	13	PASS
Band4	20	20175	1	#0	QPSK	4.83	13	PASS
Band4	20	20175	1	#0	16QAM	5.43	13	PASS
Band4	20	20300	1	#0	QPSK	4.68	13	PASS
Band4	20	20300	1	#0	16QAM	5.51	13	PASS
Band5	1.4	20407	1	#0	QPSK	4.70	13	PASS
Band5	1.4	20407	1	#0	16QAM	5.64	13	PASS
Band5	1.4	20525	1	#0	QPSK	2.51	13	PASS
Band5	1.4	20525	1	#0	16QAM	3.52	13	PASS
Band5	1.4	20643	1	#0	QPSK	3.70	13	PASS
Band5	1.4	20643	1	#0	16QAM	4.61	13	PASS
Band5	3	20415	1	#0	QPSK	4.70	13	PASS
Band5	3	20415	1	#0	16QAM	5.61	13	PASS
Band5	3	20525	1	#0	QPSK	3.17	13	PASS
Band5	3	20525	1	#0	16QAM	4.25	13	PASS
Band5	3	20635	1	#0	QPSK	4.11	13	PASS
Band5	3	20635	1	#0	16QAM	4.93	13	PASS
Band5	5	20425	1	#0	QPSK	4.60	13	PASS
Band5	5	20425	1	#0	16QAM	5.28	13	PASS
Band5	5	20525	1	#0	QPSK	3.93	13	PASS
Band5	5	20525	1	#0	16QAM	4.74	13	PASS
Band5	5	20625	1	#0	QPSK	4.30	13	PASS
Band5	5	20625	1	#0	16QAM	4.96	13	PASS
Band5	10	20450	1	#0	QPSK	4.48	13	PASS
Band5	10	20450	1	#0	16QAM	5.21	13	PASS
Band5	10	20525	1	#0	QPSK	5.23	13	PASS
Band5	10	20525	1	#0	16QAM	6.34	13	PASS
Band5	10	20600	1	#0	QPSK	2.24	13	PASS
Band5	10	20600	1	#0	16QAM	3.24	13	PASS
Band7	5	20775	1	#0	QPSK	4.75	13	PASS
Band7	5	20775	1	#0	16QAM	5.43	13	PASS
Band7	5	21100	1	#0	QPSK	4.81	13	PASS
Band7	5	21100	1	#0	16QAM	5.45	13	PASS
Band7	5	21425	1	#0	QPSK	3.95	13	PASS
Band7	5	21425	1	#0	16QAM	4.68	13	PASS
Band7	10	20800	1	#0	QPSK	4.52	13	PASS
Band7	10	20800	1	#0	16QAM	5.26	13	PASS
Band7	10	21100	1	#0	QPSK	4.37	13	PASS
Band7	10	21100	1	#0	16QAM	5.19	13	PASS
Band7	10	21400	1	#0	QPSK	3.76	13	PASS
Band7	10	21400	1	#0	16QAM	4.76	13	PASS
Band7	15	20825	1	#0	QPSK	4.79	13	PASS
Band7	15	20825	1	#0	16QAM	5.71	13	PASS
Band7	15	21100	1	#0	QPSK	4.13	13	PASS
Band7	15	21100	1	#0	16QAM	5.08	13	PASS
Band7	15	21375	1	#0	QPSK	4.30	13	PASS
Band7	15	21375	1	#0	16QAM	5.13	13	PASS

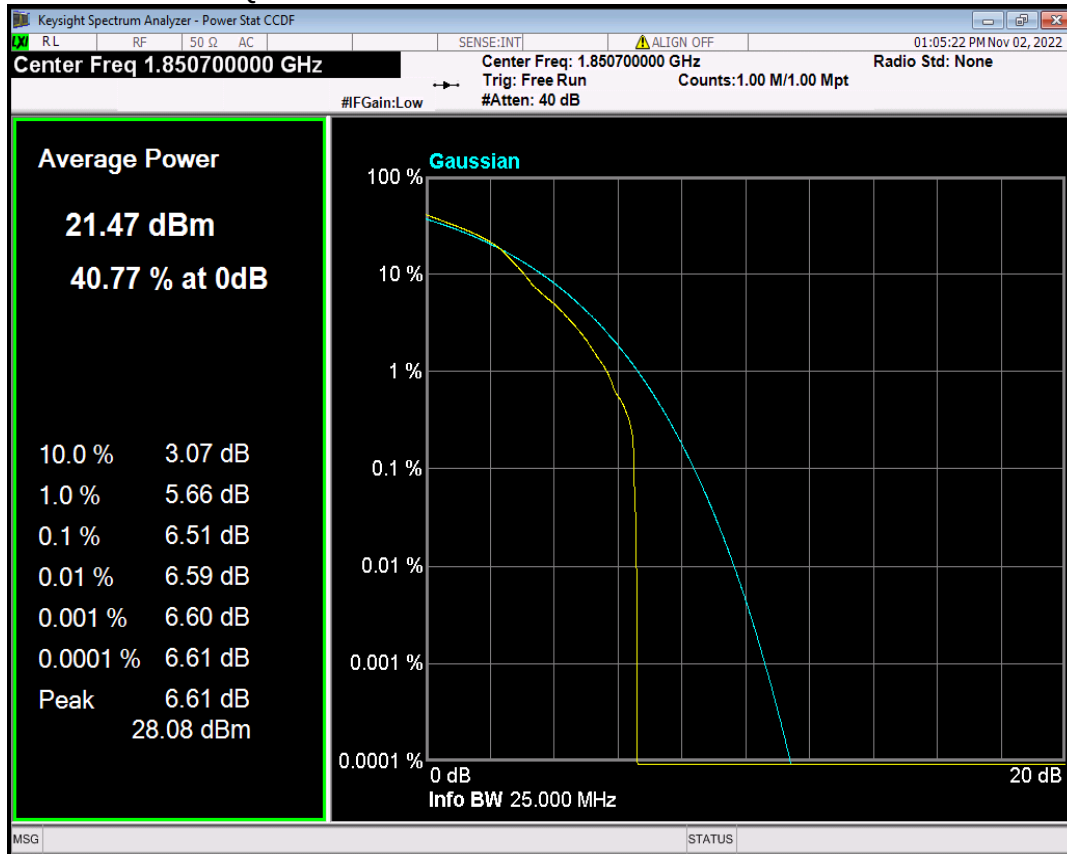
Band7	20	20850	1	#0	QPSK	4.91	13	PASS
Band7	20	20850	1	#0	16QAM	5.93	13	PASS
Band7	20	21100	1	#0	QPSK	3.96	13	PASS
Band7	20	21100	1	#0	16QAM	4.59	13	PASS
Band7	20	21350	1	#0	QPSK	4.88	13	PASS
Band7	20	21350	1	#0	16QAM	5.78	13	PASS
Band12	1.4	23017	1	#0	QPSK	5.01	13	PASS
Band12	1.4	23017	1	#0	16QAM	5.70	13	PASS
Band12	1.4	23095	1	#0	QPSK	4.64	13	PASS
Band12	1.4	23095	1	#0	16QAM	5.42	13	PASS
Band12	1.4	23173	1	#0	QPSK	3.03	13	PASS
Band12	1.4	23173	1	#0	16QAM	4.09	13	PASS
Band12	3	23025	1	#0	QPSK	5.05	13	PASS
Band12	3	23025	1	#0	16QAM	5.78	13	PASS
Band12	3	23095	1	#0	QPSK	4.36	13	PASS
Band12	3	23095	1	#0	16QAM	5.28	13	PASS
Band12	3	23165	1	#0	QPSK	4.14	13	PASS
Band12	3	23165	1	#0	16QAM	5.14	13	PASS
Band12	5	23035	1	#0	QPSK	5.11	13	PASS
Band12	5	23035	1	#0	16QAM	5.65	13	PASS
Band12	5	23095	1	#0	QPSK	4.25	13	PASS
Band12	5	23095	1	#0	16QAM	4.99	13	PASS
Band12	5	23155	1	#0	QPSK	6.33	13	PASS
Band12	5	23155	1	#0	16QAM	6.96	13	PASS
Band12	10	23060	1	#0	QPSK	5.27	13	PASS
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Band12	10	23095	1	#0	QPSK	5.02	13	PASS
Band12	10	23095	1	#0	16QAM	5.76	13	PASS
Band12	10	23130	1	#0	QPSK	4.26	13	PASS
Band12	10	23130	1	#0	16QAM	5.09	13	PASS
Band13	5	23205	1	#0	QPSK	4.76	13	PASS
Band13	5	23205	1	#0	16QAM	5.37	13	PASS
Band13	5	23230	1	#0	QPSK	4.92	13	PASS
Band13	5	23230	1	#0	16QAM	5.57	13	PASS
Band13	5	23255	1	#0	QPSK	5.26	13	PASS
Band13	5	23255	1	#0	16QAM	5.74	13	PASS
Band13	10	23230	1	#0	QPSK	4.76	13	PASS
Band13	10	23230	1	#0	16QAM	5.65	13	PASS
Band17	5	23755	1	#0	QPSK	4.38	13	PASS
Band17	5	23755	1	#0	16QAM	4.99	13	PASS
Band17	5	23790	1	#0	QPSK	4.96	13	PASS
Band17	5	23790	1	#0	16QAM	5.57	13	PASS
Band17	5	23825	1	#0	QPSK	6.27	13	PASS
Band17	5	23825	1	#0	16QAM	6.61	13	PASS
Band17	10	23780	1	#0	QPSK	4.30	13	PASS
Band17	10	23780	1	#0	16QAM	5.16	13	PASS
Band17	10	23790	1	#0	QPSK	4.01	13	PASS
Band17	10	23790	1	#0	16QAM	5.00	13	PASS
Band17	10	23800	1	#0	QPSK	4.09	13	PASS
Band17	10	23800	1	#0	16QAM	4.85	13	PASS
Band25	1.4	26047	1	#0	QPSK	5.11	13	PASS
Band25	1.4	26047	1	#0	16QAM	5.73	13	PASS
Band25	1.4	26365	1	#0	QPSK	5.66	13	PASS
Band25	1.4	26365	1	#0	16QAM	6.62	13	PASS
Band25	1.4	26683	1	#0	QPSK	4.18	13	PASS
Band25	1.4	26683	1	#0	16QAM	5.21	13	PASS
Band25	3	26055	1	#0	QPSK	5.27	13	PASS
Band25	3	26055	1	#0	16QAM	6.14	13	PASS
Band25	3	26365	1	#0	QPSK	5.34	13	PASS

Band25	3	26365	1	#0	16QAM	6.48	13	PASS
Band25	3	26675	1	#0	QPSK	4.62	13	PASS
Band25	3	26675	1	#0	16QAM	5.42	13	PASS
Band25	5	26065	1	#0	QPSK	5.16	13	PASS
Band25	5	26065	1	#0	16QAM	5.83	13	PASS
Band25	5	26365	1	#0	QPSK	5.44	13	PASS
Band25	5	26365	1	#0	16QAM	5.80	13	PASS
Band25	5	26665	1	#0	QPSK	5.04	13	PASS
Band25	5	26665	1	#0	16QAM	5.62	13	PASS
Band25	10	26090	1	#0	QPSK	5.11	13	PASS
Band25	10	26090	1	#0	16QAM	6.14	13	PASS
Band25	10	26365	1	#0	QPSK	4.54	13	PASS
Band25	10	26365	1	#0	16QAM	5.54	13	PASS
Band25	10	26640	1	#0	QPSK	3.73	13	PASS
Band25	10	26640	1	#0	16QAM	4.56	13	PASS
Band25	15	26115	1	#0	QPSK	5.21	13	PASS
Band25	15	26115	1	#0	16QAM	6.22	13	PASS
Band25	15	26365	1	#0	QPSK	3.79	13	PASS
Band25	15	26365	1	#0	16QAM	4.75	13	PASS
Band25	15	26615	1	#0	QPSK	2.88	13	PASS
Band25	15	26615	1	#0	16QAM	3.80	13	PASS
Band25	20	26140	1	#0	QPSK	5.24	13	PASS
Band25	20	26140	1	#0	16QAM	5.98	13	PASS
Band25	20	26365	1	#0	QPSK	3.38	13	PASS
Band25	20	26365	1	#0	16QAM	4.41	13	PASS
Band25	20	26590	1	#0	QPSK	4.73	13	PASS
Band25	20	26590	1	#0	16QAM	5.28	13	PASS
Band26(824-849)	1.4	26797	1	#0	QPSK	4.99	13	PASS
Band26(824-849)	1.4	26797	1	#0	16QAM	5.75	13	PASS
Band26(824-849)	1.4	26915	1	#0	QPSK	3.08	13	PASS
Band26(824-849)	1.4	26915	1	#0	16QAM	4.22	13	PASS
Band26(824-849)	1.4	27033	1	#0	QPSK	3.25	13	PASS
Band26(824-849)	1.4	27033	1	#0	16QAM	4.13	13	PASS
Band26(824-849)	3	26805	1	#0	QPSK	4.91	13	PASS
Band26(824-849)	3	26805	1	#0	16QAM	5.73	13	PASS
Band26(824-849)	3	26915	1	#0	QPSK	3.63	13	PASS
Band26(824-849)	3	26915	1	#0	16QAM	4.49	13	PASS
Band26(824-849)	3	27025	1	#0	QPSK	4.24	13	PASS
Band26(824-849)	3	27025	1	#0	16QAM	5.12	13	PASS
Band26(824-849)	5	26815	1	#0	QPSK	5.03	13	PASS
Band26(824-849)	5	26815	1	#0	16QAM	5.63	13	PASS
Band26(824-849)	5	26915	1	#0	QPSK	4.30	13	PASS
Band26(824-849)	5	26915	1	#0	16QAM	4.93	13	PASS
Band26(824-849)	5	27015	1	#0	QPSK	4.43	13	PASS
Band26(824-849)	5	27015	1	#0	16QAM	5.07	13	PASS
Band26(824-849)	10	26840	1	#0	QPSK	4.49	13	PASS
Band26(824-849)	10	26840	1	#0	16QAM	5.28	13	PASS
Band26(824-849)	10	26915	1	#0	QPSK	5.42	13	PASS
Band26(824-849)	10	26915	1	#0	16QAM	6.37	13	PASS
Band26(824-849)	10	26990	1	#0	QPSK	2.41	13	PASS
Band26(824-849)	10	26990	1	#0	16QAM	3.49	13	PASS
Band26(824-849)	15	26865	1	#0	QPSK	4.66	13	PASS
Band26(824-849)	15	26865	1	#0	16QAM	5.60	13	PASS
Band26(824-849)	15	26915	1	#0	QPSK	5.23	13	PASS
Band26(824-849)	15	26915	1	#0	16QAM	6.14	13	PASS
Band26(824-849)	15	26965	1	#0	QPSK	3.86	13	PASS
Band26(824-849)	15	26965	1	#0	16QAM	4.77	13	PASS
Band26(814-824)	1.4	26697	1	#0	QPSK	2.19	13	PASS
Band26(814-824)	1.4	26697	1	#0	16QAM	2.52	13	PASS

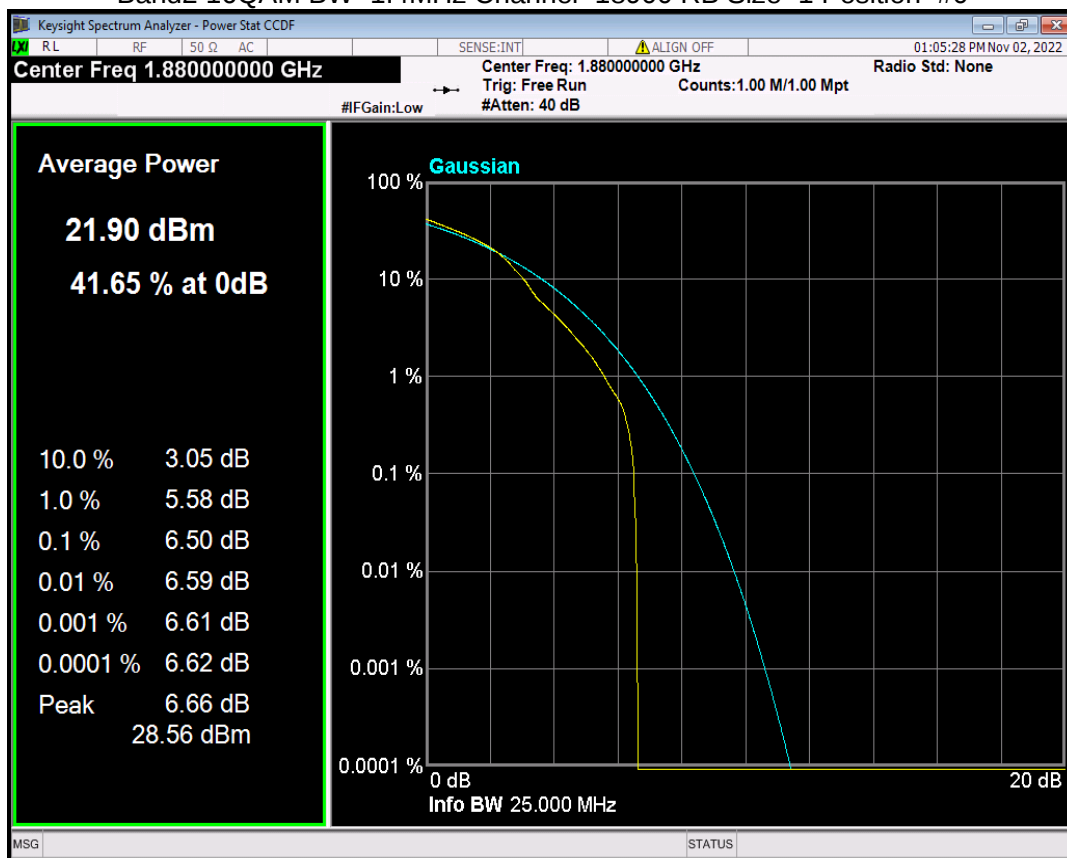
Band26(814-824)	1.4	26740	1	#0	QPSK	1.45	13	PASS
Band26(814-824)	1.4	26740	1	#0	16QAM	1.69	13	PASS
Band26(814-824)	1.4	26783	1	#0	QPSK	4.41	13	PASS
Band26(814-824)	1.4	26783	1	#0	16QAM	5.14	13	PASS
Band26(814-824)	3	26705	1	#0	QPSK	2.47	13	PASS
Band26(814-824)	3	26705	1	#0	16QAM	2.70	13	PASS
Band26(814-824)	3	26740	1	#0	QPSK	1.58	13	PASS
Band26(814-824)	3	26740	1	#0	16QAM	1.86	13	PASS
Band26(814-824)	3	26775	1	#0	QPSK	2.98	13	PASS
Band26(814-824)	3	26775	1	#0	16QAM	3.78	13	PASS
Band26(814-824)	5	26715	1	#0	QPSK	3.47	13	PASS
Band26(814-824)	5	26715	1	#0	16QAM	3.91	13	PASS
Band26(814-824)	5	26740	1	#0	QPSK	1.39	13	PASS
Band26(814-824)	5	26740	1	#0	16QAM	1.56	13	PASS
Band26(814-824)	5	26765	1	#0	QPSK	1.65	13	PASS
Band26(814-824)	5	26765	1	#0	16QAM	1.79	13	PASS
Band38	5	37775	1	#0	QPSK	8.57	13	PASS
Band38	5	37775	1	#0	16QAM	7.95	13	PASS
Band38	5	38000	1	#0	QPSK	8.31	13	PASS
Band38	5	38000	1	#0	16QAM	9.60	13	PASS
Band38	5	38225	1	#0	QPSK	8.34	13	PASS
Band38	5	38225	1	#0	16QAM	8.32	13	PASS
Band38	10	37800	1	#0	QPSK	8.37	13	PASS
Band38	10	37800	1	#0	16QAM	9.41	13	PASS
Band38	10	38000	1	#0	QPSK	8.04	13	PASS
Band38	10	38000	1	#0	16QAM	9.14	13	PASS
Band38	10	38200	1	#0	QPSK	7.59	13	PASS
Band38	10	38200	1	#0	16QAM	9.83	13	PASS
Band38	15	37825	1	#0	QPSK	9.06	13	PASS
Band38	15	37825	1	#0	16QAM	9.78	13	PASS
Band38	15	38000	1	#0	QPSK	9.36	13	PASS
Band38	15	38000	1	#0	16QAM	9.57	13	PASS
Band38	15	38175	1	#0	QPSK	6.81	13	PASS
Band38	15	38175	1	#0	16QAM	8.42	13	PASS
Band38	20	37850	1	#0	QPSK	8.77	13	PASS
Band38	20	37850	1	#0	16QAM	9.54	13	PASS
Band38	20	38000	1	#0	QPSK	9.28	13	PASS
Band38	20	38000	1	#0	16QAM	8.51	13	PASS
Band38	20	38150	1	#0	QPSK	8.08	13	PASS
Band38	20	38150	1	#0	16QAM	8.96	13	PASS
Band40(2305-2315)	5	38725	1	#0	QPSK	9.44	13	PASS
Band40(2305-2315)	5	38725	1	#0	16QAM	10.53	13	PASS
Band40(2305-2315)	5	38750	1	#0	QPSK	8.90	13	PASS
Band40(2305-2315)	5	38750	1	#0	16QAM	10.73	13	PASS
Band40(2305-2315)	5	38775	1	#0	QPSK	9.20	13	PASS
Band40(2305-2315)	5	38775	1	#0	16QAM	9.28	13	PASS
Band40(2305-2315)	10	38750	1	#0	QPSK	9.06	13	PASS
Band40(2305-2315)	10	38750	1	#0	16QAM	9.43	13	PASS
Band40(2350-2360)	5	39175	1	#0	QPSK	8.86	13	PASS
Band40(2350-2360)	5	39175	1	#0	16QAM	9.58	13	PASS
Band40(2350-2360)	5	39200	1	#0	QPSK	8.74	13	PASS
Band40(2350-2360)	5	39200	1	#0	16QAM	9.2	13	PASS
Band40(2350-2360)	5	39225	1	#0	QPSK	8.67	13	PASS
Band40(2350-2360)	5	39225	1	#0	16QAM	9.01	13	PASS
Band40(2350-2360)	10	39200	1	#0	QPSK	8.65	13	PASS
Band40(2350-2360)	10	39200	1	#0	16QAM	10.59	13	PASS
Band41(2555-2655)	5	40265	1	#0	QPSK	8.60	13	PASS
Band41(2555-2655)	5	40265	1	#0	16QAM	9.34	13	PASS
Band41(2555-2655)	5	40740	1	#0	QPSK	7.57	13	PASS

Band41(2555-2655)	5	40740	1	#0	16QAM	9.96	13	PASS
Band41(2555-2655)	5	41215	1	#0	QPSK	9.65	13	PASS
Band41(2555-2655)	5	41215	1	#0	16QAM	9.50	13	PASS
Band41(2555-2655)	10	40290	1	#0	QPSK	9.04	13	PASS
Band41(2555-2655)	10	40290	1	#0	16QAM	9.44	13	PASS
Band41(2555-2655)	10	40740	1	#0	QPSK	8.49	13	PASS
Band41(2555-2655)	10	40740	1	#0	16QAM	9.52	13	PASS
Band41(2555-2655)	10	41190	1	#0	QPSK	7.97	13	PASS
Band41(2555-2655)	10	41190	1	#0	16QAM	9.70	13	PASS
Band41(2555-2655)	15	40315	1	#0	QPSK	9.25	13	PASS
Band41(2555-2655)	15	40315	1	#0	16QAM	9.26	13	PASS
Band41(2555-2655)	15	40740	1	#0	QPSK	8.88	13	PASS
Band41(2555-2655)	15	40740	1	#0	16QAM	9.63	13	PASS
Band41(2555-2655)	15	41165	1	#0	QPSK	7.63	13	PASS
Band41(2555-2655)	15	41165	1	#0	16QAM	9.56	13	PASS
Band41(2555-2655)	20	40340	1	#0	QPSK	8.10	13	PASS
Band41(2555-2655)	20	40340	1	#0	16QAM	9.46	13	PASS
Band41(2555-2655)	20	40740	1	#0	QPSK	7.66	13	PASS
Band41(2555-2655)	20	40740	1	#0	16QAM	11.12	13	PASS
Band41(2555-2655)	20	41140	1	#0	QPSK	9.32	13	PASS
Band41(2555-2655)	20	41140	1	#0	16QAM	8.40	13	PASS
Band66	1.4	131979	1	#0	QPSK	4.78	13	PASS
Band66	1.4	131979	1	#0	16QAM	5.43	13	PASS
Band66	1.4	132322	1	#0	QPSK	5.18	13	PASS
Band66	1.4	132322	1	#0	16QAM	5.98	13	PASS
Band66	1.4	132665	1	#0	QPSK	5.30	13	PASS
Band66	1.4	132665	1	#0	16QAM	6.27	13	PASS
Band66	3	131987	1	#0	QPSK	4.93	13	PASS
Band66	3	131987	1	#0	16QAM	5.88	13	PASS
Band66	3	132322	1	#0	QPSK	4.73	13	PASS
Band66	3	132322	1	#0	16QAM	5.52	13	PASS
Band66	3	132657	1	#0	QPSK	5.73	13	PASS
Band66	3	132657	1	#0	16QAM	6.63	13	PASS
Band66	5	131997	1	#0	QPSK	4.92	13	PASS
Band66	5	131997	1	#0	16QAM	5.60	13	PASS
Band66	5	132322	1	#0	QPSK	4.65	13	PASS
Band66	5	132322	1	#0	16QAM	5.30	13	PASS
Band66	5	132647	1	#0	QPSK	5.87	13	PASS
Band66	5	132647	1	#0	16QAM	6.29	13	PASS
Band66	10	132022	1	#0	QPSK	4.82	13	PASS
Band66	10	132022	1	#0	16QAM	5.79	13	PASS
Band66	10	132322	1	#0	QPSK	3.90	13	PASS
Band66	10	132322	1	#0	16QAM	4.74	13	PASS
Band66	10	132622	1	#0	QPSK	4.07	13	PASS
Band66	10	132622	1	#0	16QAM	4.92	13	PASS
Band66	15	132047	1	#0	QPSK	5.01	13	PASS
Band66	15	132047	1	#0	16QAM	5.86	13	PASS
Band66	15	132322	1	#0	QPSK	4.02	13	PASS
Band66	15	132322	1	#0	16QAM	5.05	13	PASS
Band66	15	132597	1	#0	QPSK	3.99	13	PASS
Band66	15	132597	1	#0	16QAM	4.82	13	PASS
Band66	20	132072	1	#0	QPSK	5.17	13	PASS
Band66	20	132072	1	#0	16QAM	6.20	13	PASS
Band66	20	132322	1	#0	QPSK	4.26	13	PASS
Band66	20	132322	1	#0	16QAM	4.90	13	PASS
Band66	20	132572	1	#0	QPSK	4.56	13	PASS
Band66	20	132572	1	#0	16QAM	5.23	13	PASS

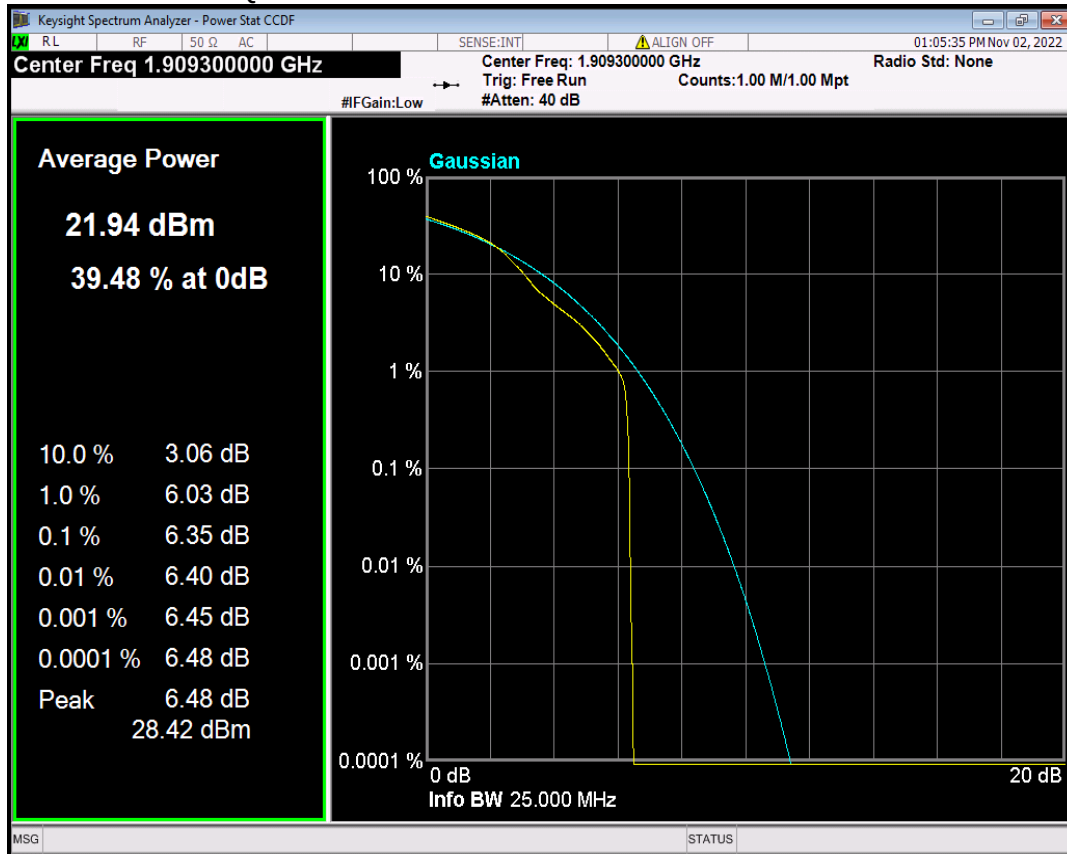
Band2 16QAM BW=1.4MHz Channel=18607 RB Size=1 Position=#0



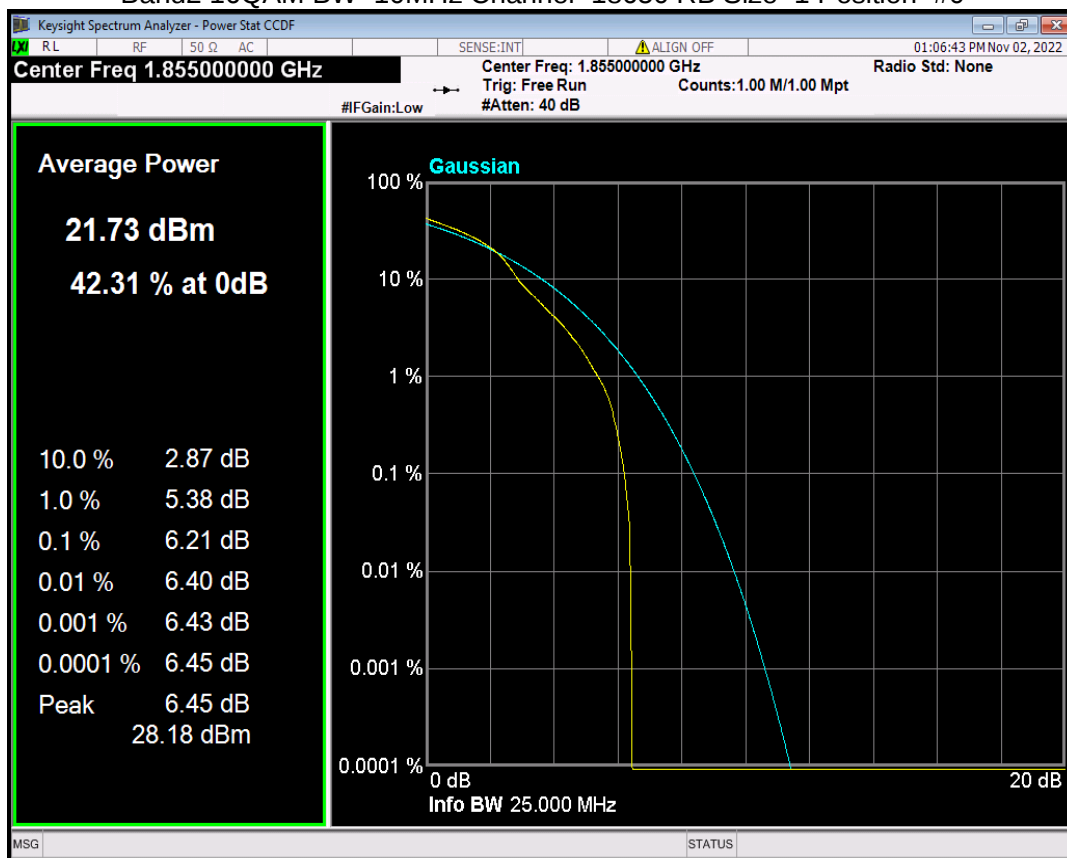
Band2 16QAM BW=1.4MHz Channel=18900 RB Size=1 Position=#0



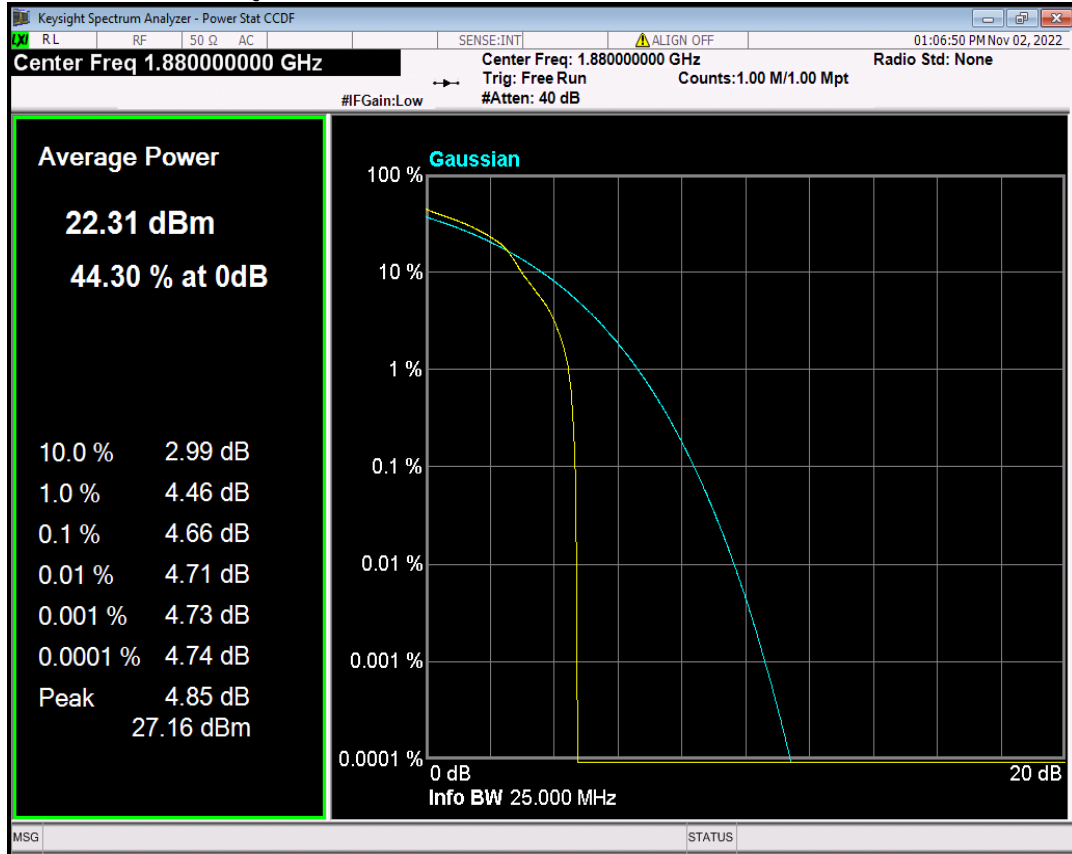
Band2 16QAM BW=1.4MHz Channel=19193 RB Size=1 Position=#0



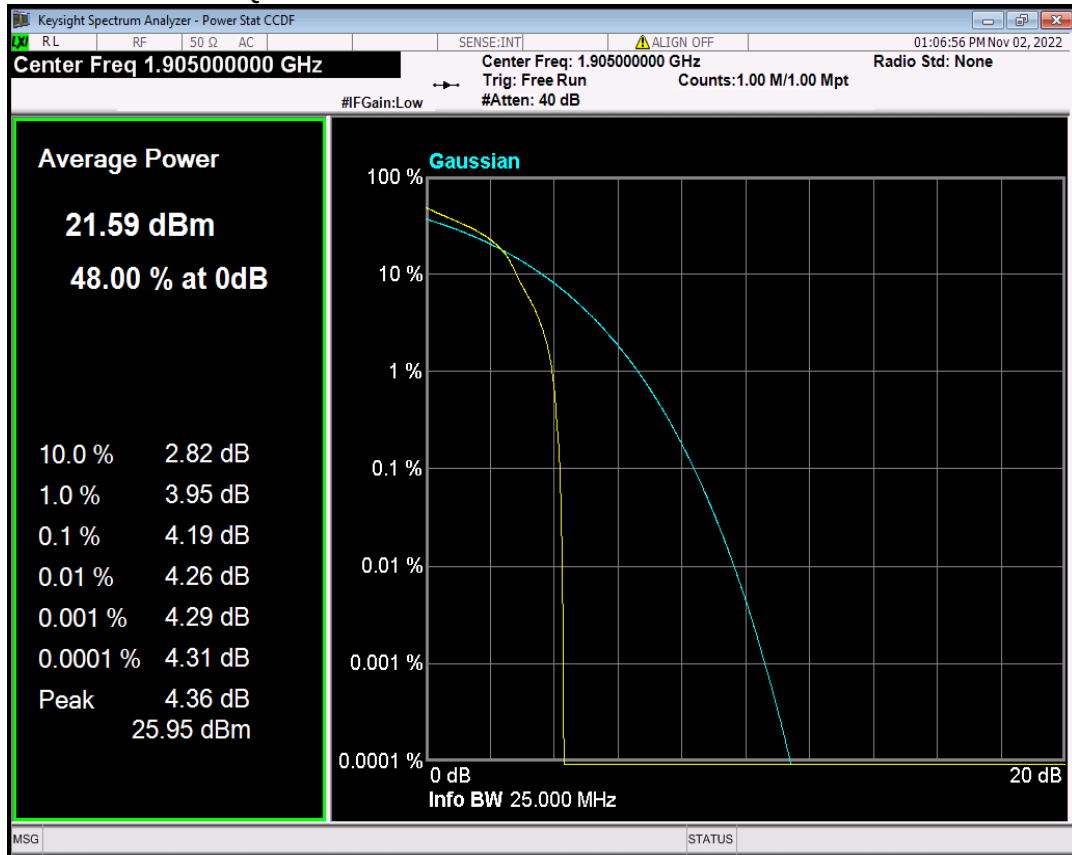
Band2 16QAM BW=10MHz Channel=18650 RB Size=1 Position=#0



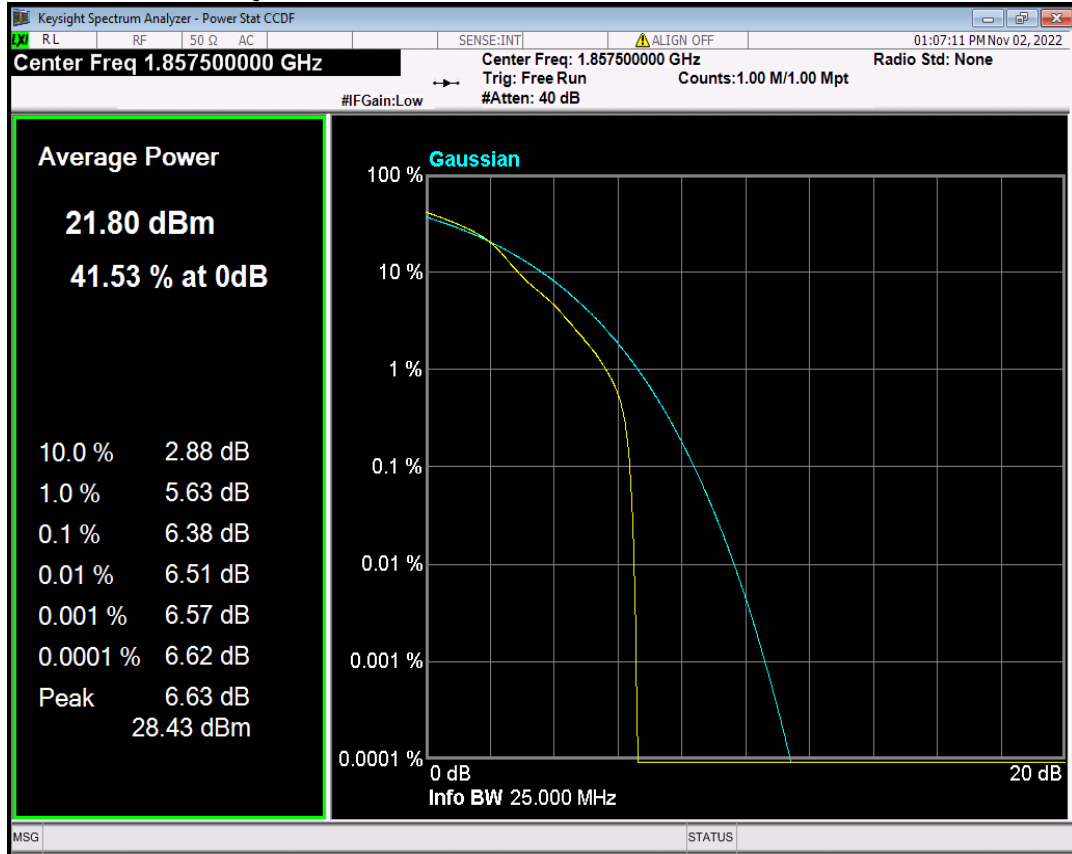
Band2 16QAM BW=10MHz Channel=18900 RB Size=1 Position=#0



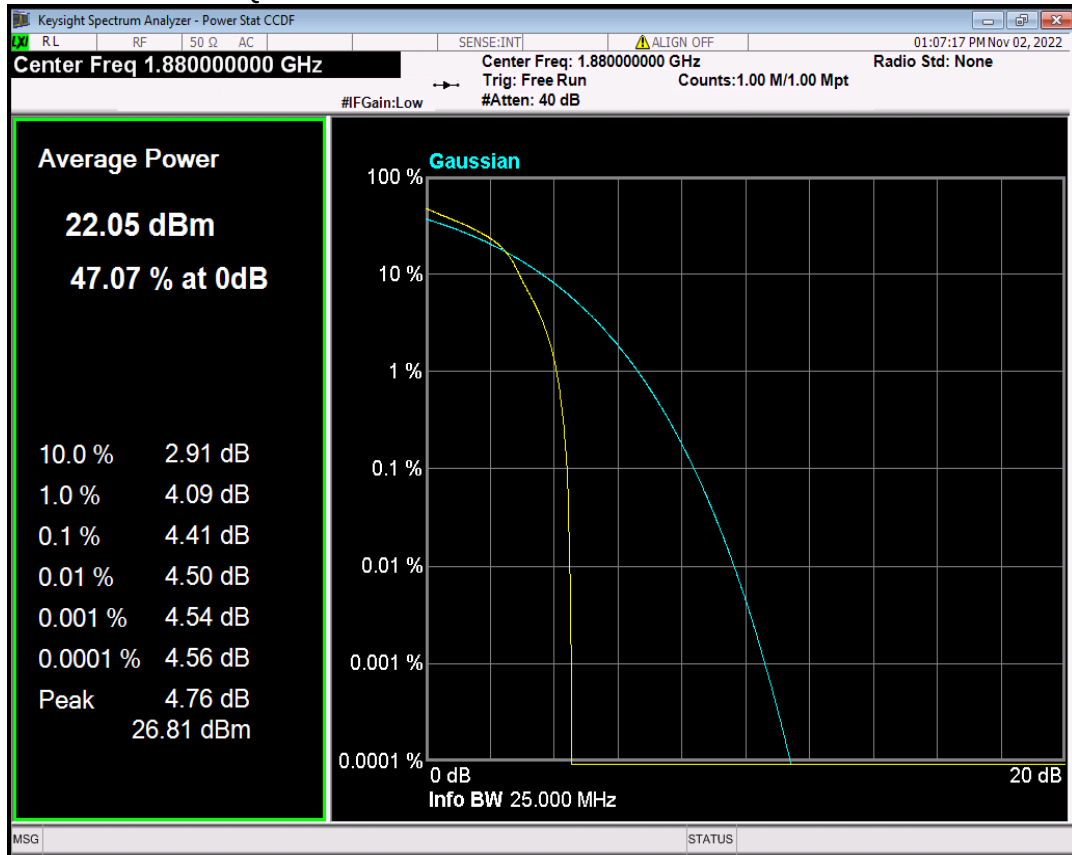
Band2 16QAM BW=10MHz Channel=19150 RB Size=1 Position=#0



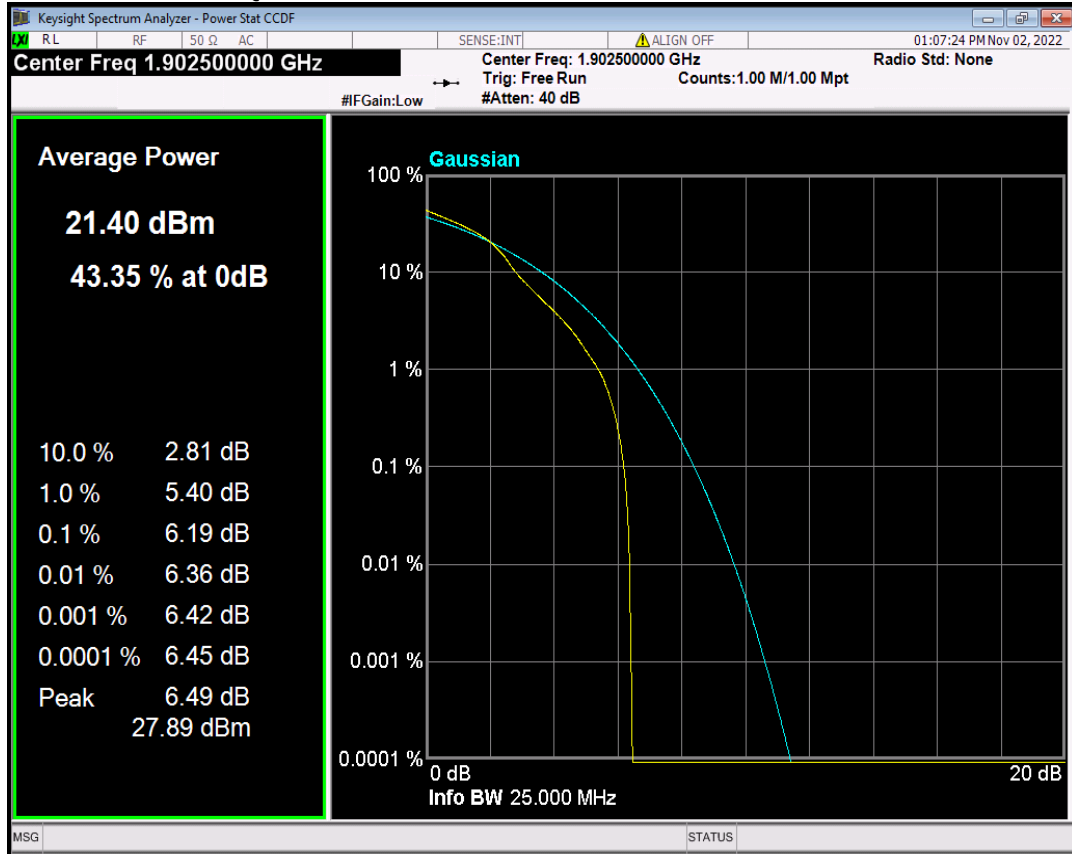
Band2 16QAM BW=15MHz Channel=18675 RB Size=1 Position=#0



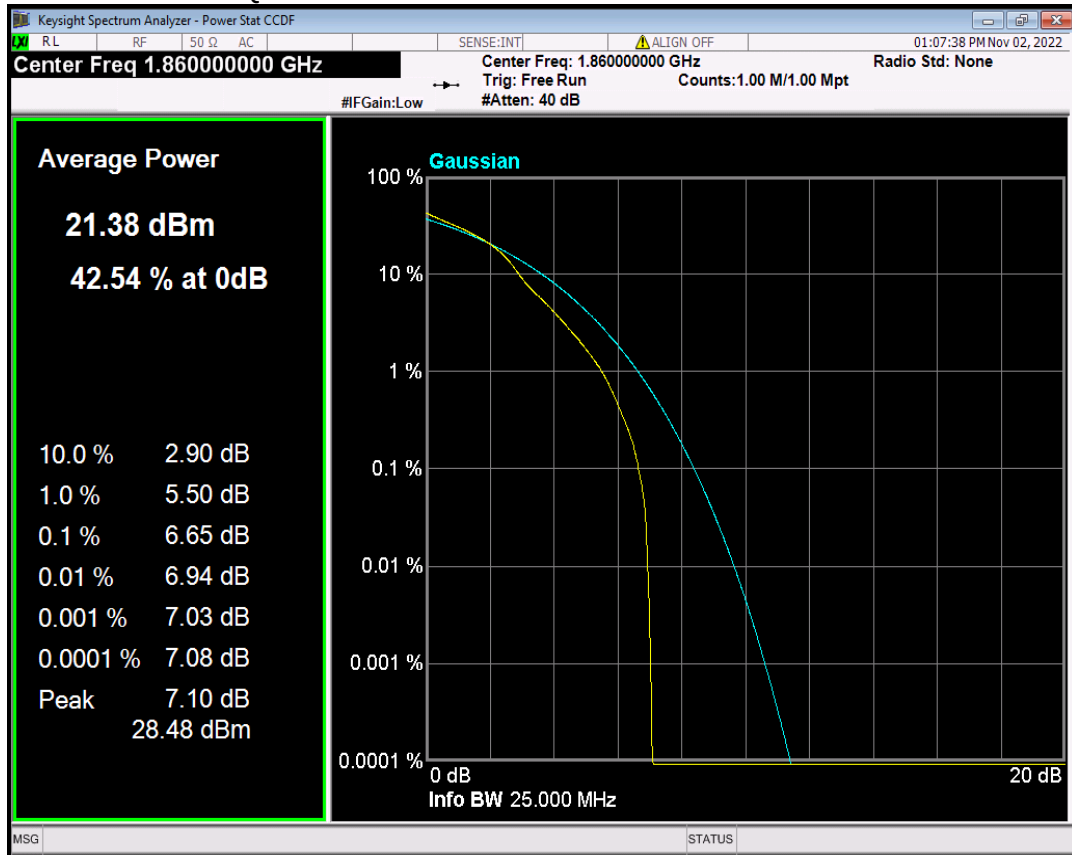
Band2 16QAM BW=15MHz Channel=18900 RB Size=1 Position=#0



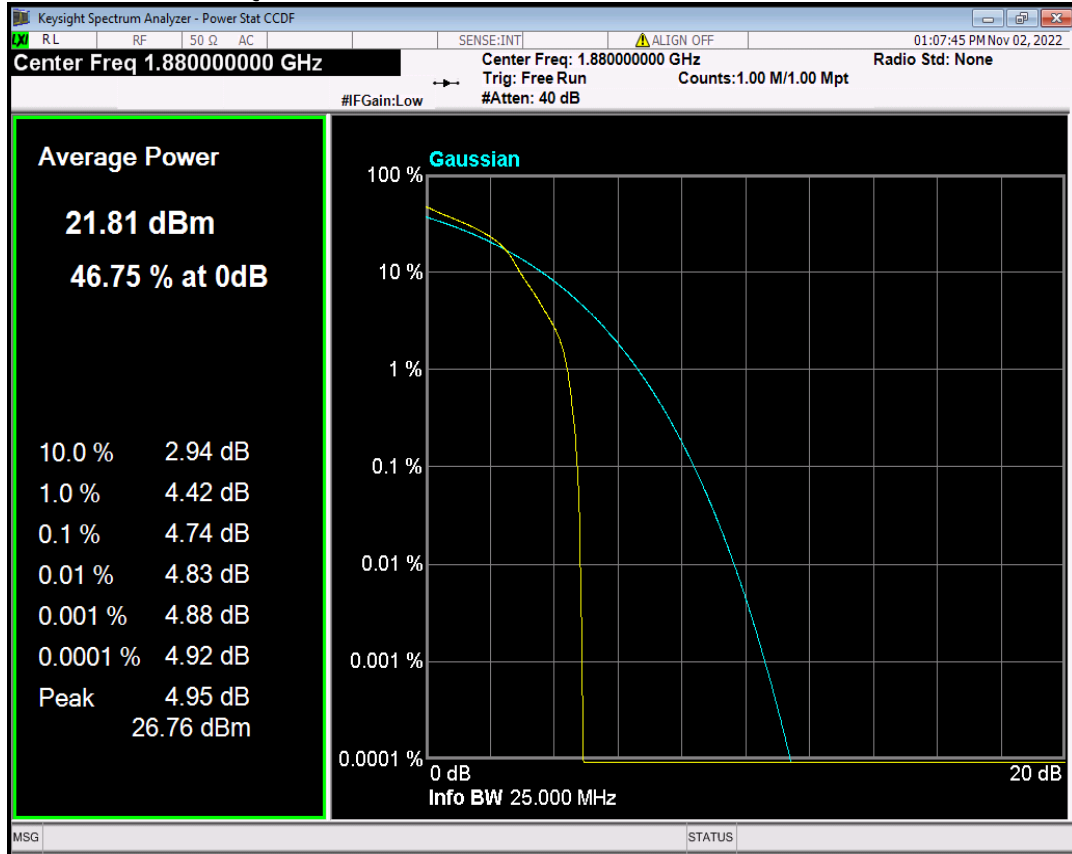
Band2 16QAM BW=15MHz Channel=19125 RB Size=1 Position=#0



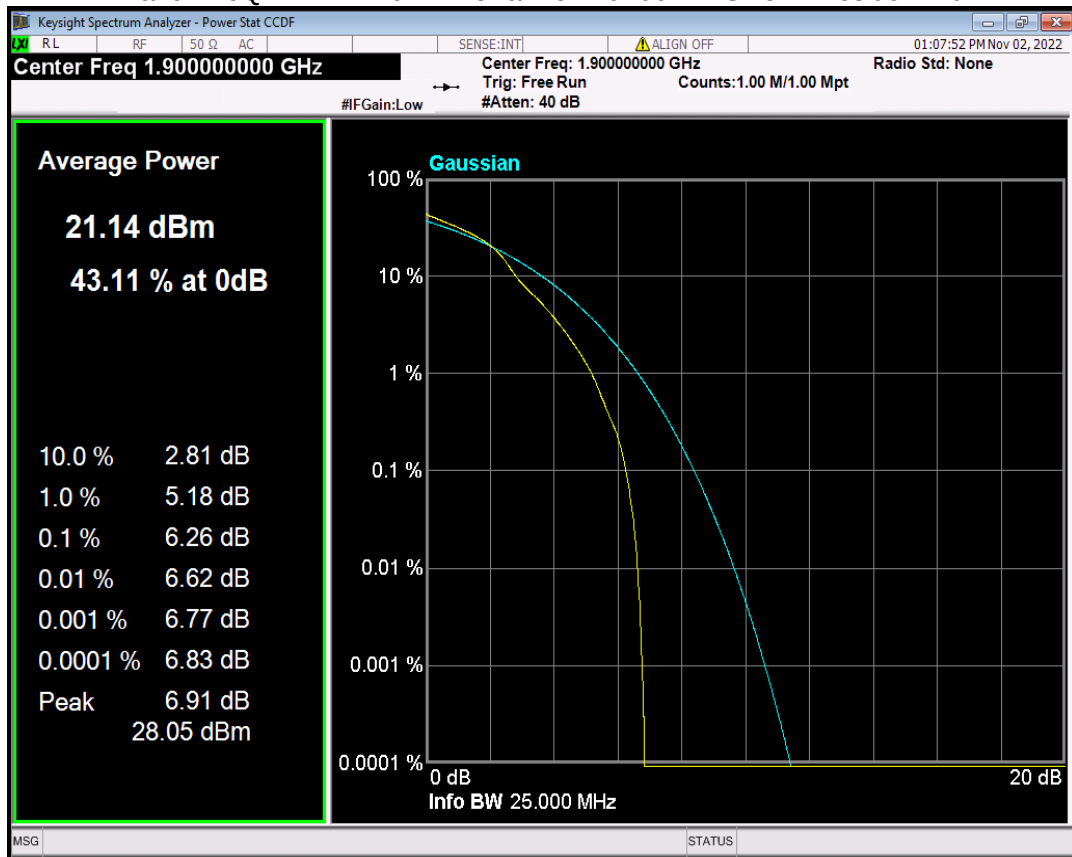
Band2 16QAM BW=20MHz Channel=18700 RB Size=1 Position=#0



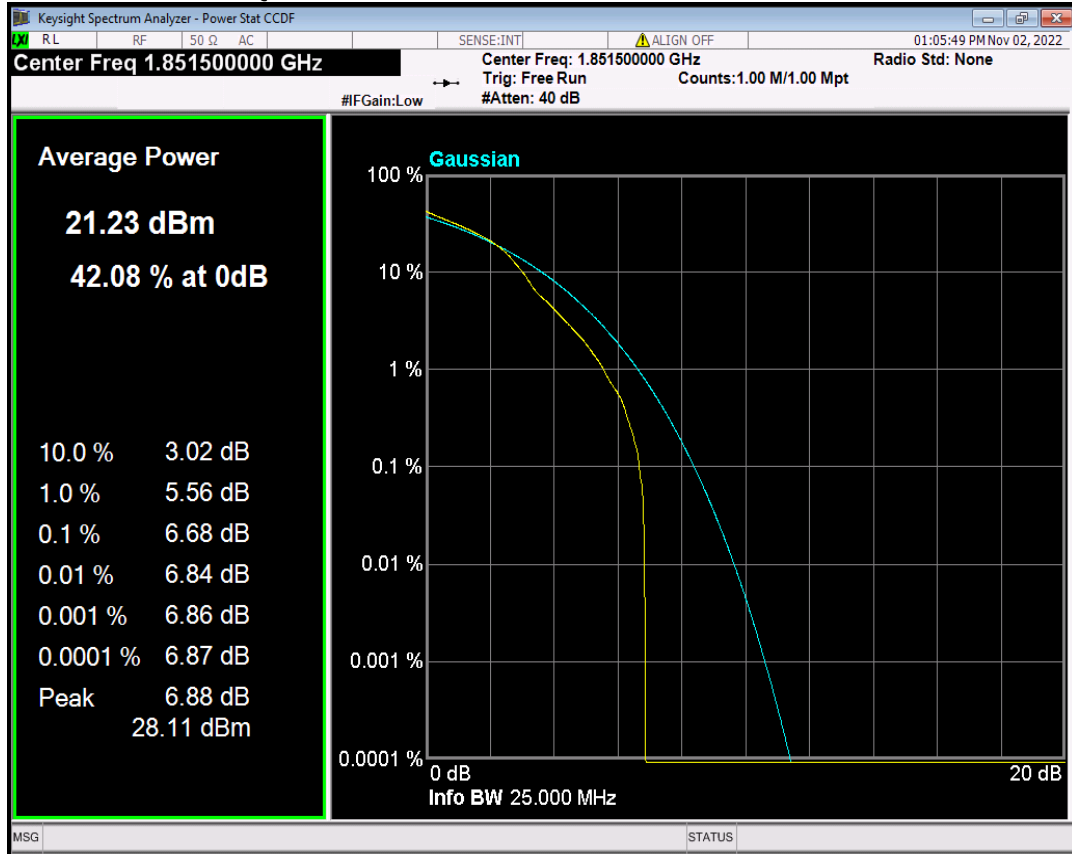
Band2 16QAM BW=20MHz Channel=18900 RB Size=1 Position=#0



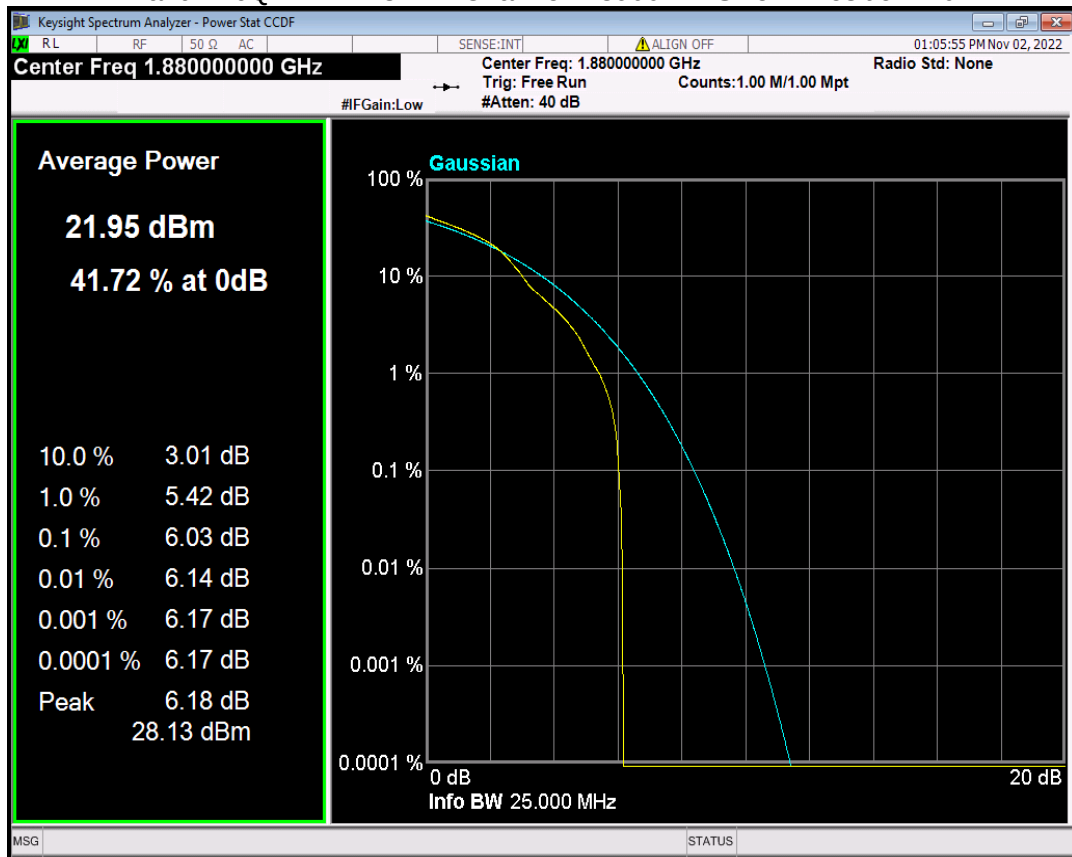
Band2 16QAM BW=20MHz Channel=19100 RB Size=1 Position=#0



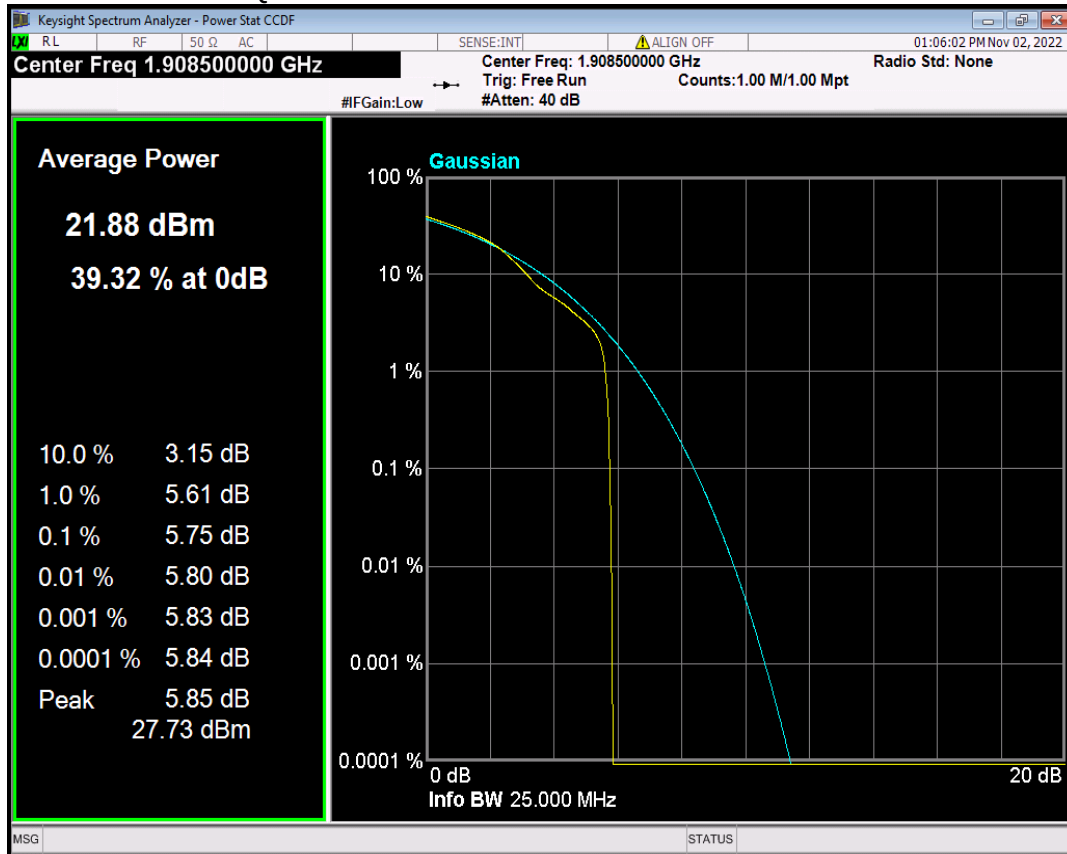
Band2 16QAM BW=3MHz Channel=18615 RB Size=1 Position=#0



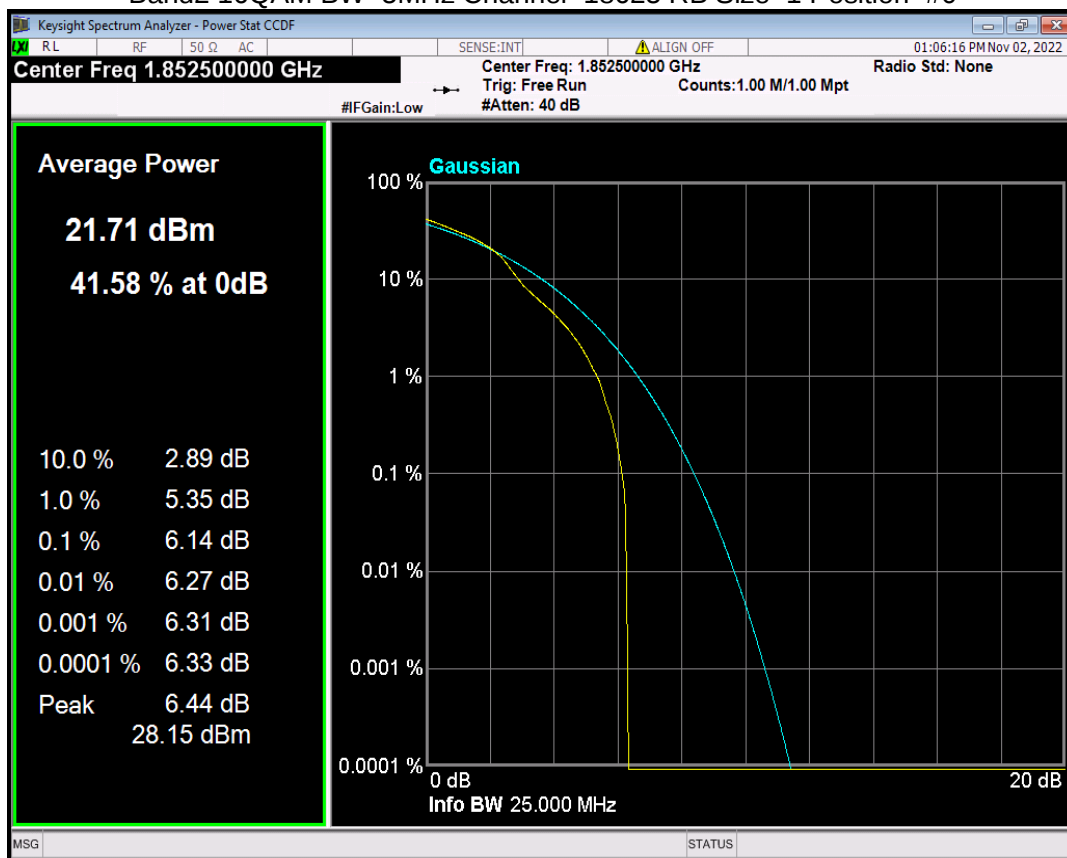
Band2 16QAM BW=3MHz Channel=18900 RB Size=1 Position=#0



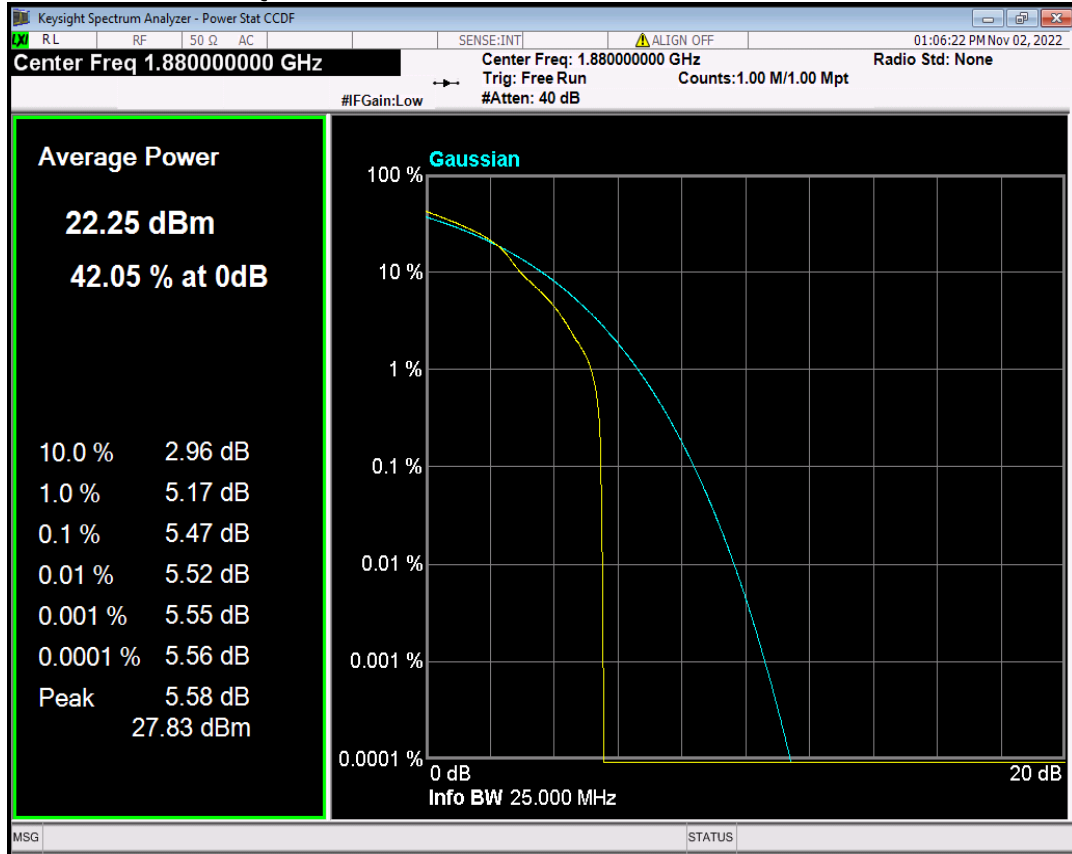
Band2 16QAM BW=3MHz Channel=19185 RB Size=1 Position=#0



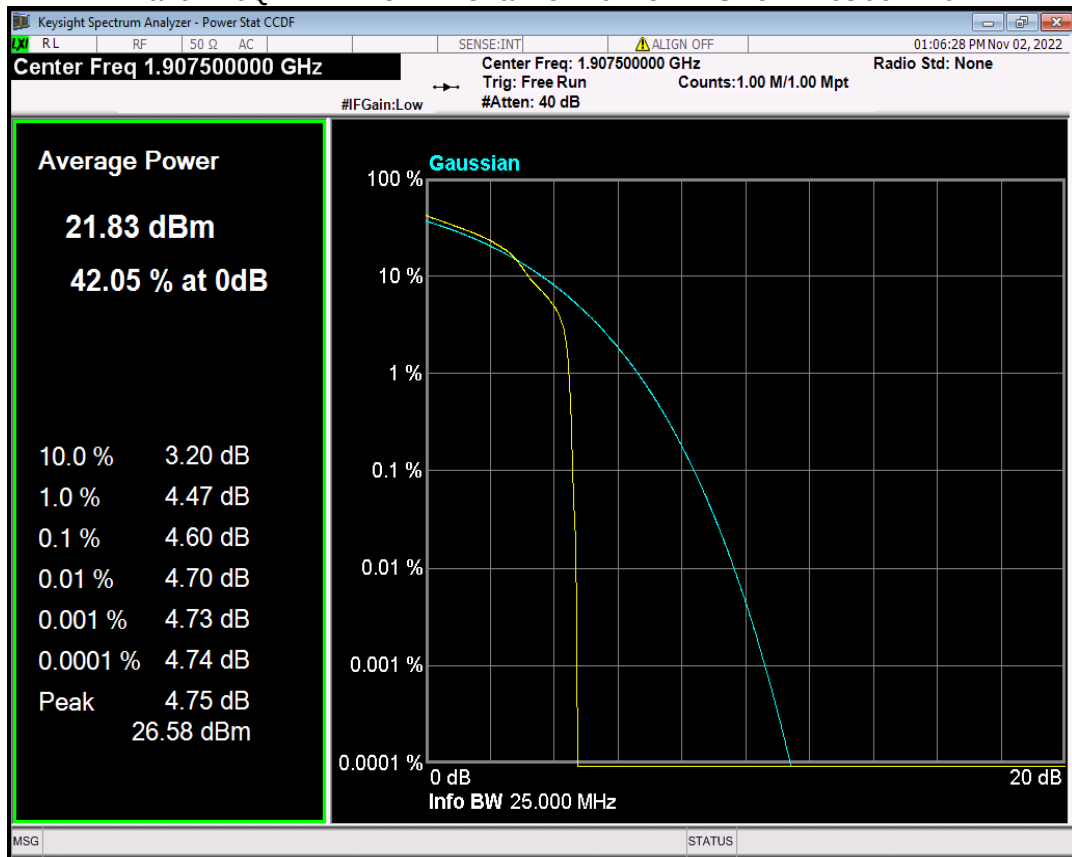
Band2 16QAM BW=5MHz Channel=18625 RB Size=1 Position=#0



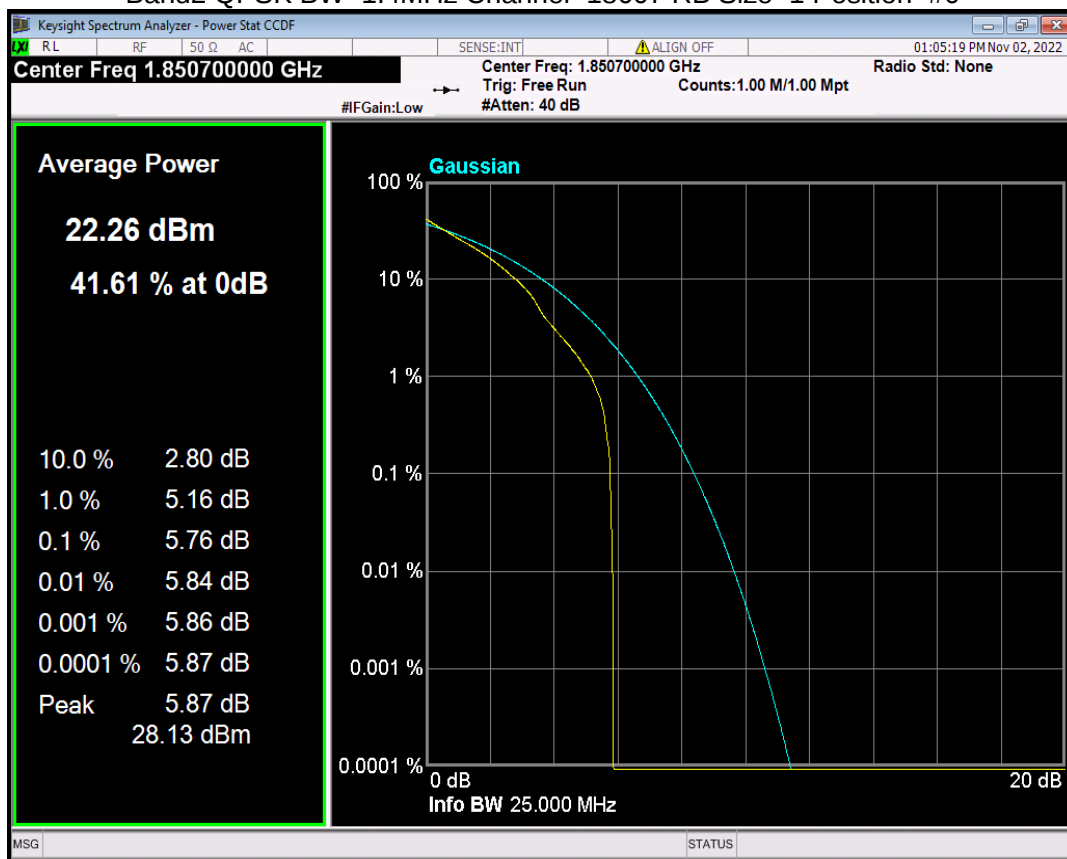
Band2 16QAM BW=5MHz Channel=18900 RB Size=1 Position=#0



Band2 16QAM BW=5MHz Channel=19175 RB Size=1 Position=#0



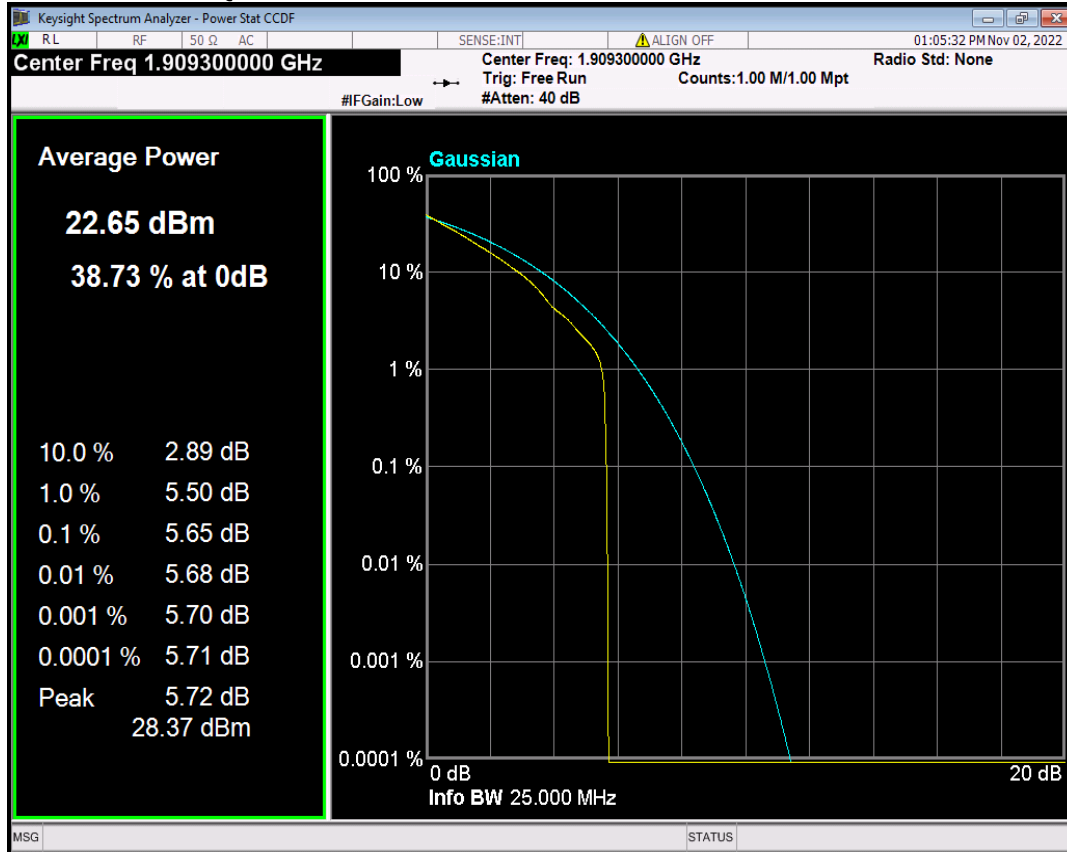
Band2 QPSK BW=1.4MHz Channel=18607 RB Size=1 Position=#0



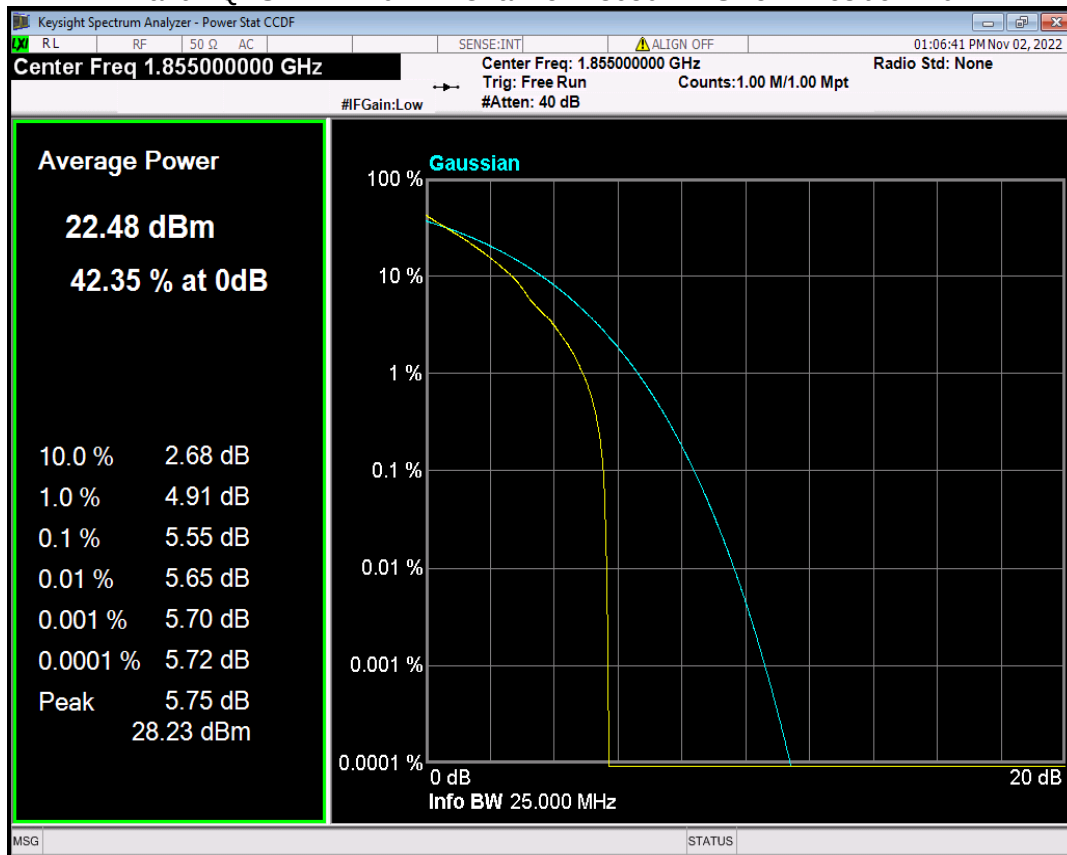
Band2 QPSK BW=1.4MHz Channel=18900 RB Size=1 Position=#0



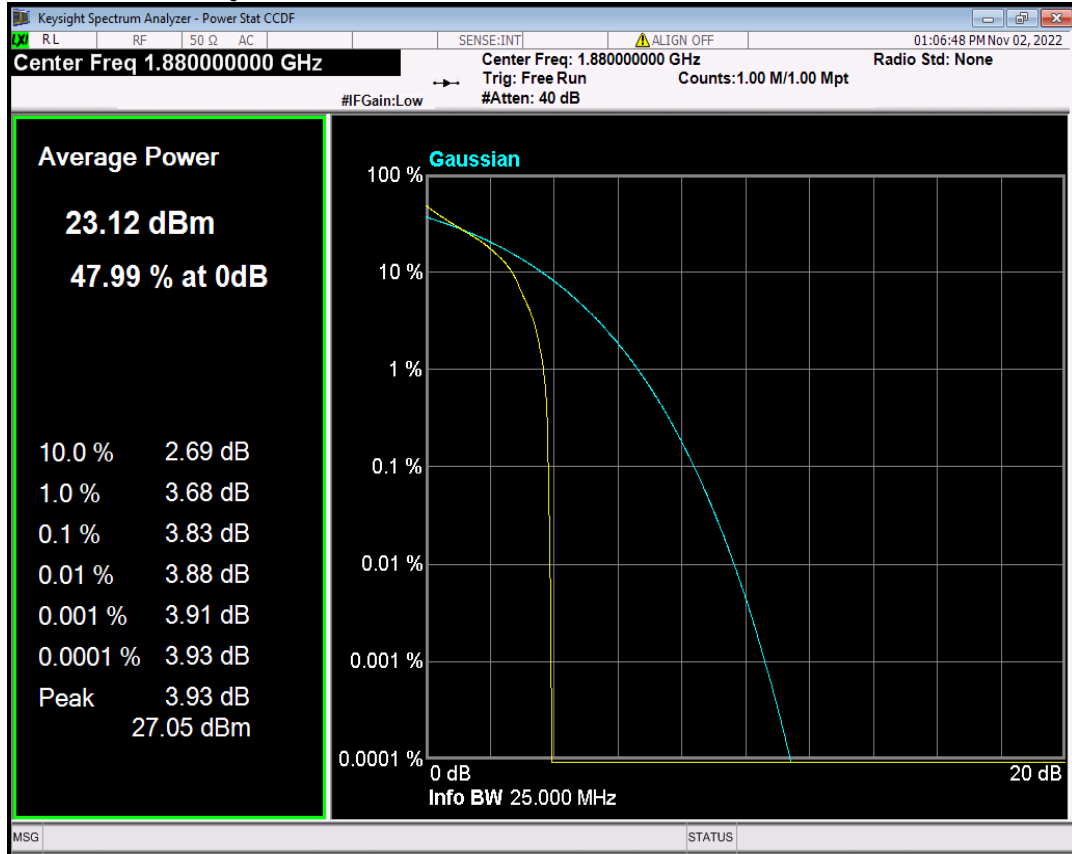
Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#0



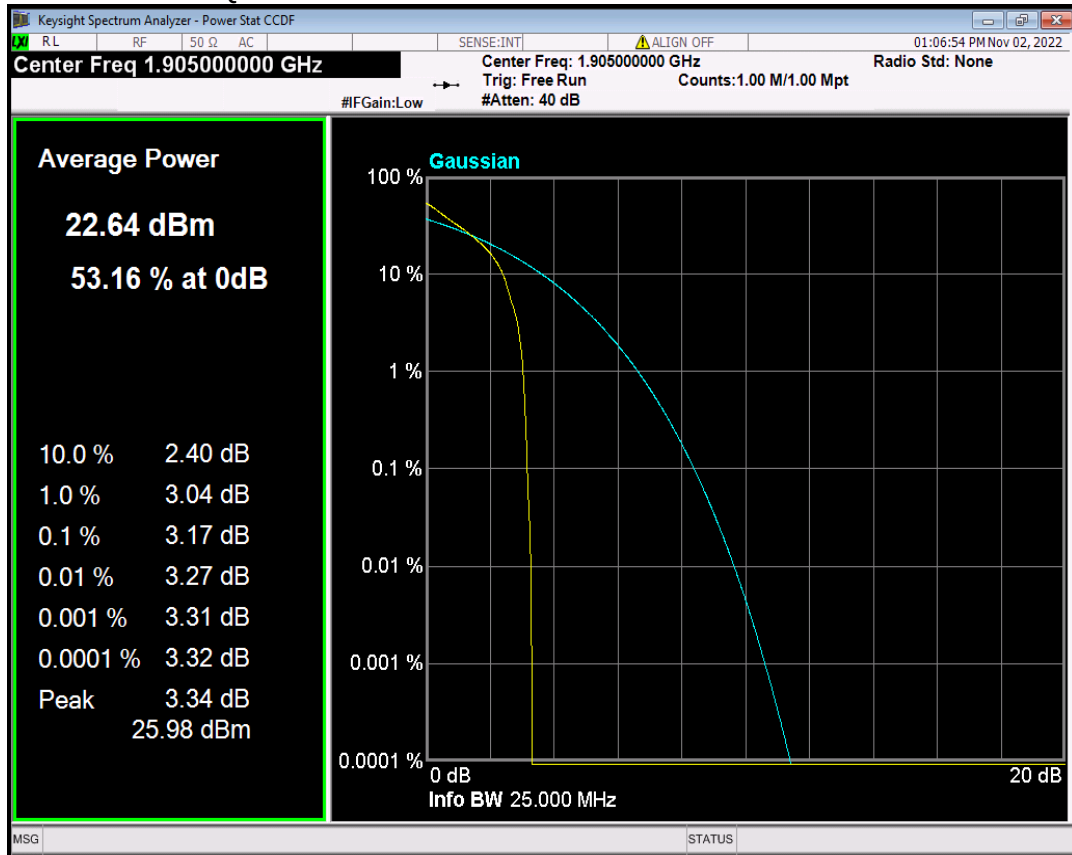
Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#0



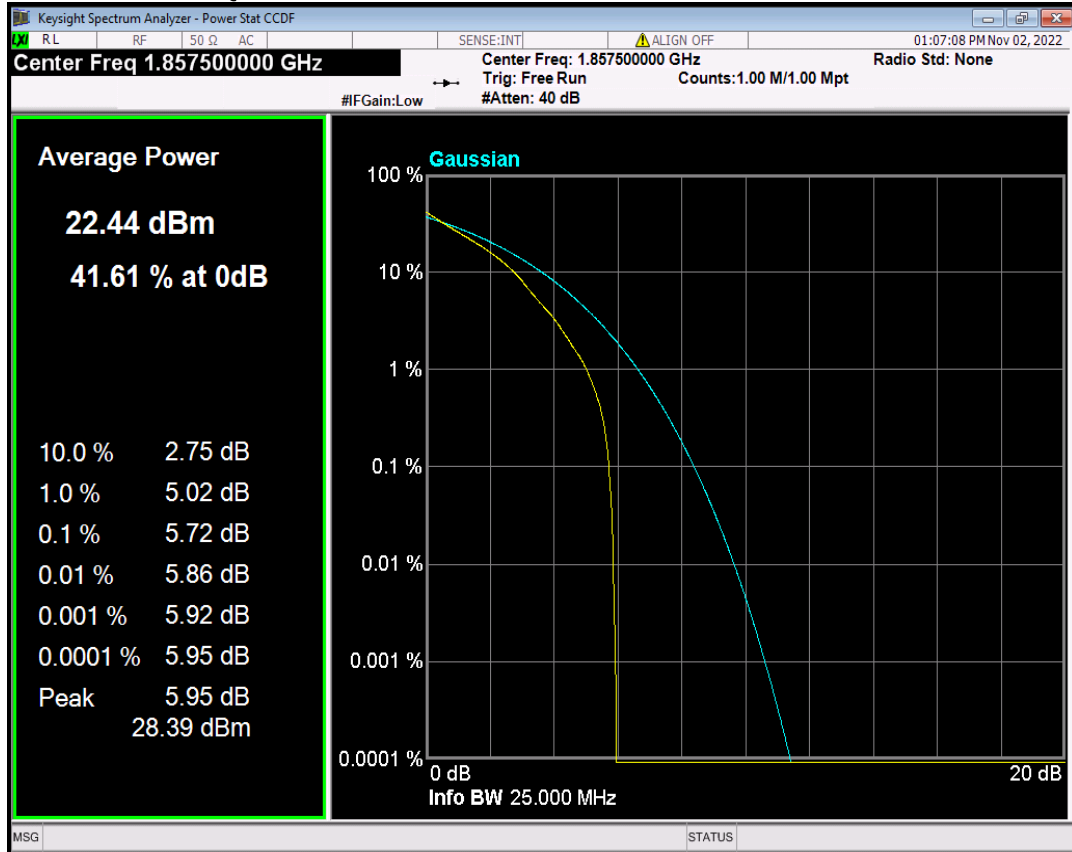
Band2 QPSK BW=10MHz Channel=18900 RB Size=1 Position=#0



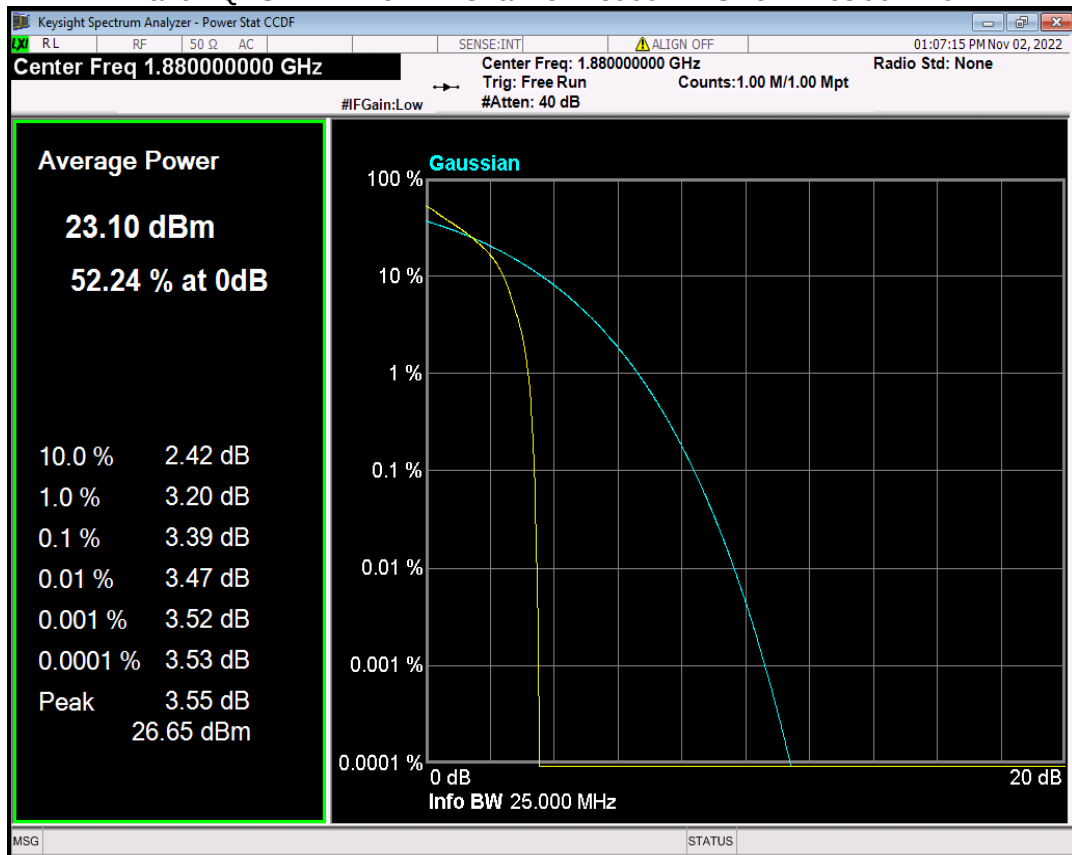
Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#0



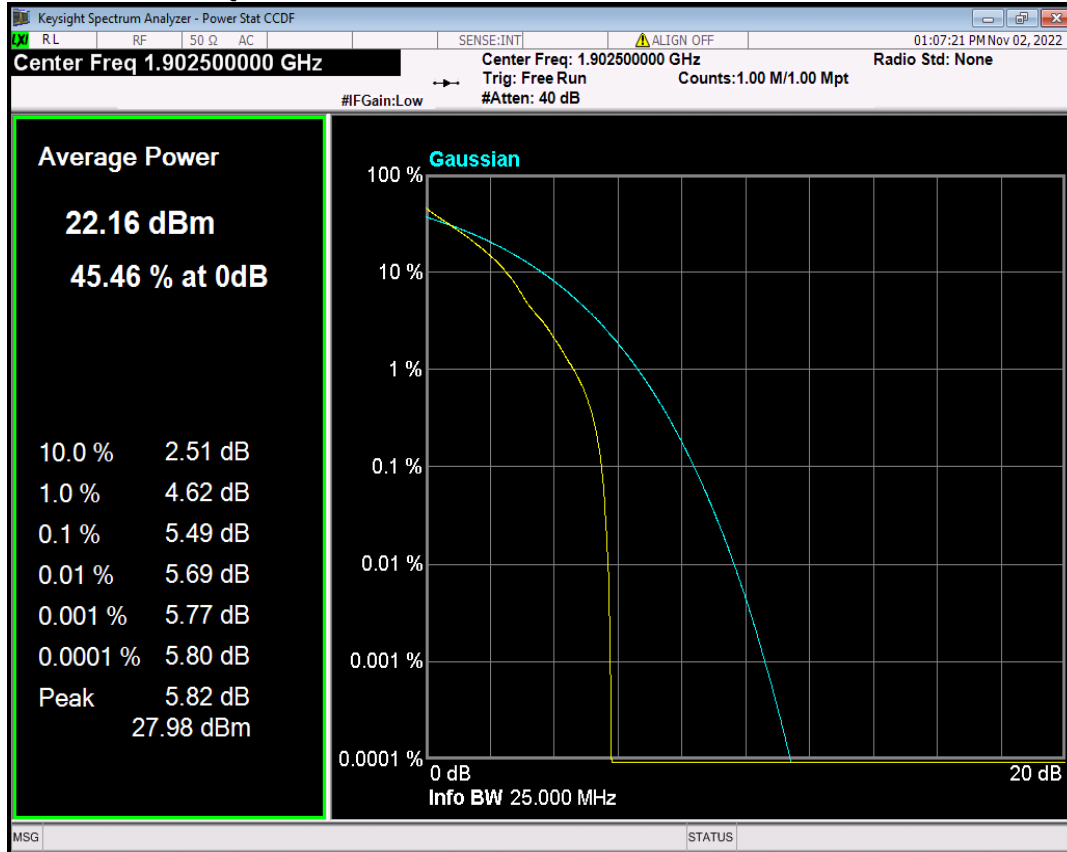
Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0



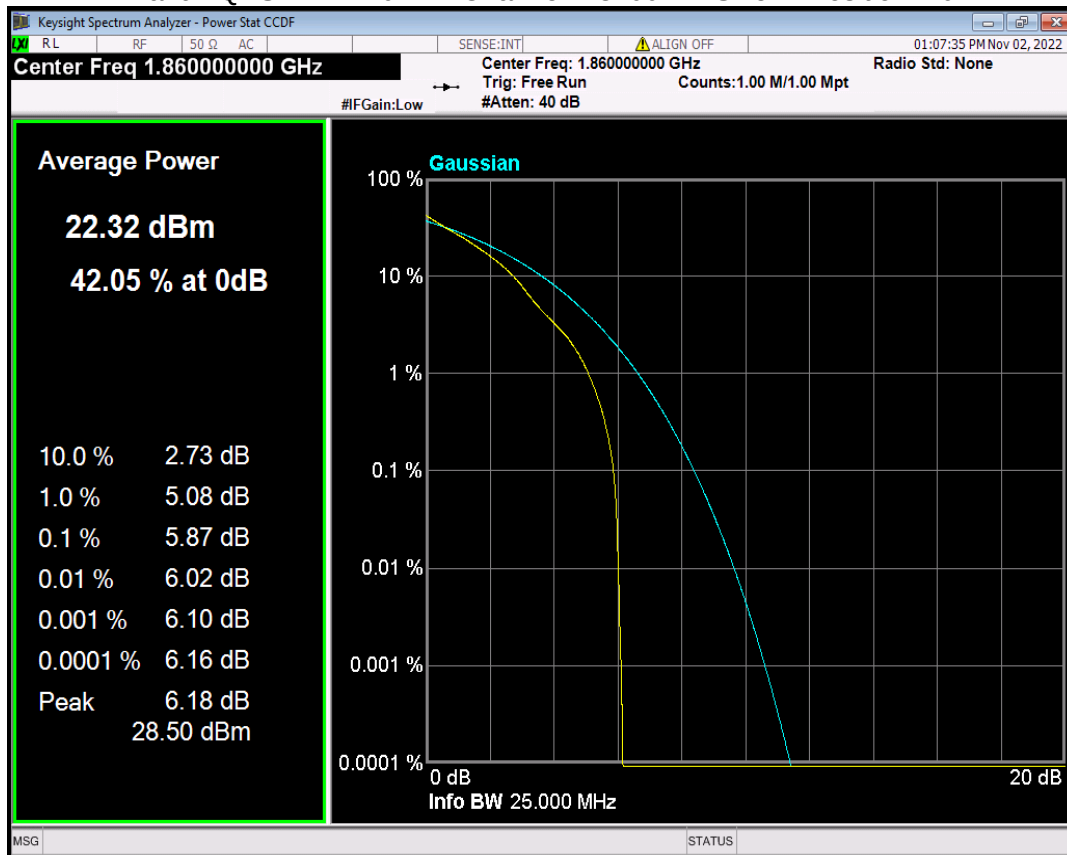
Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0



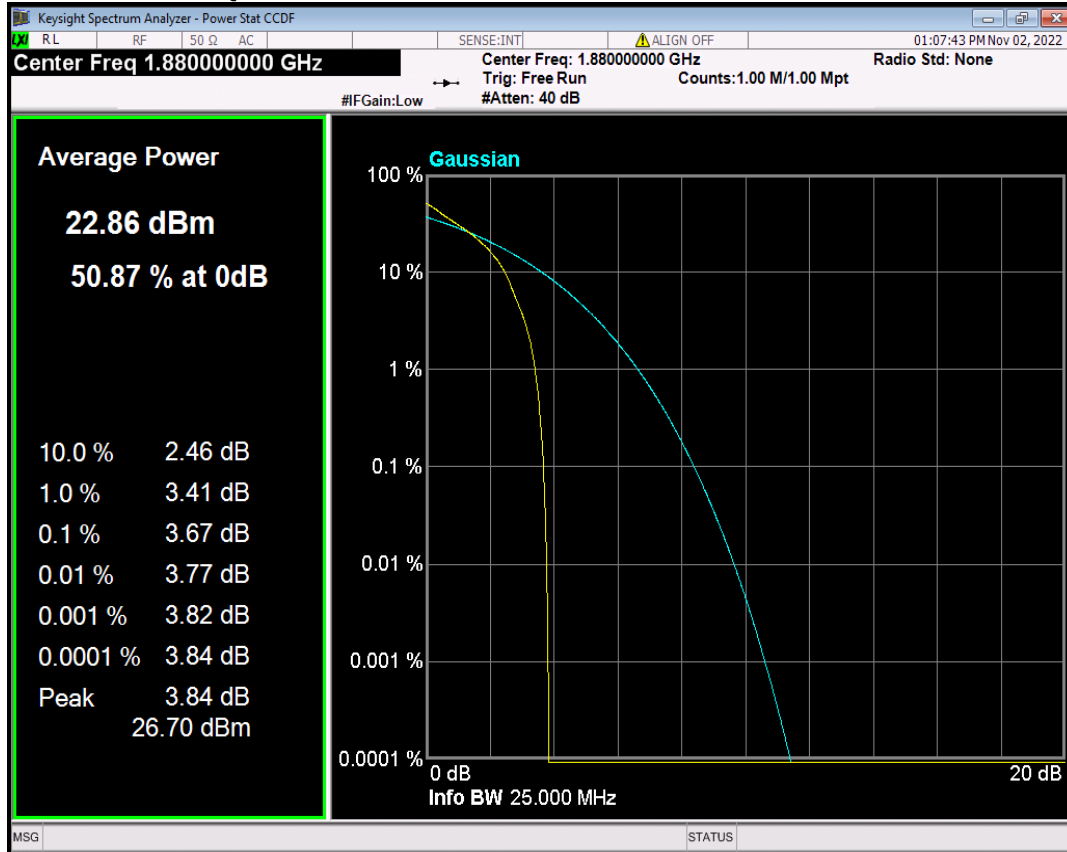
Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0



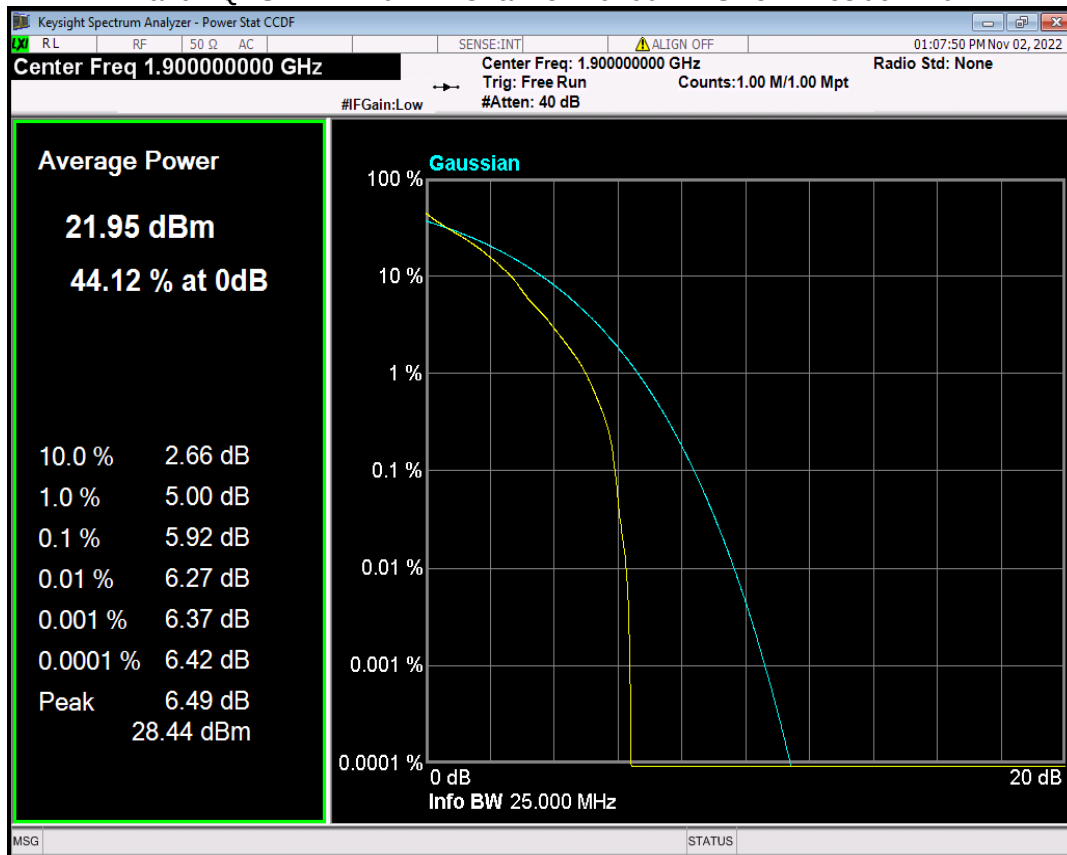
Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#0



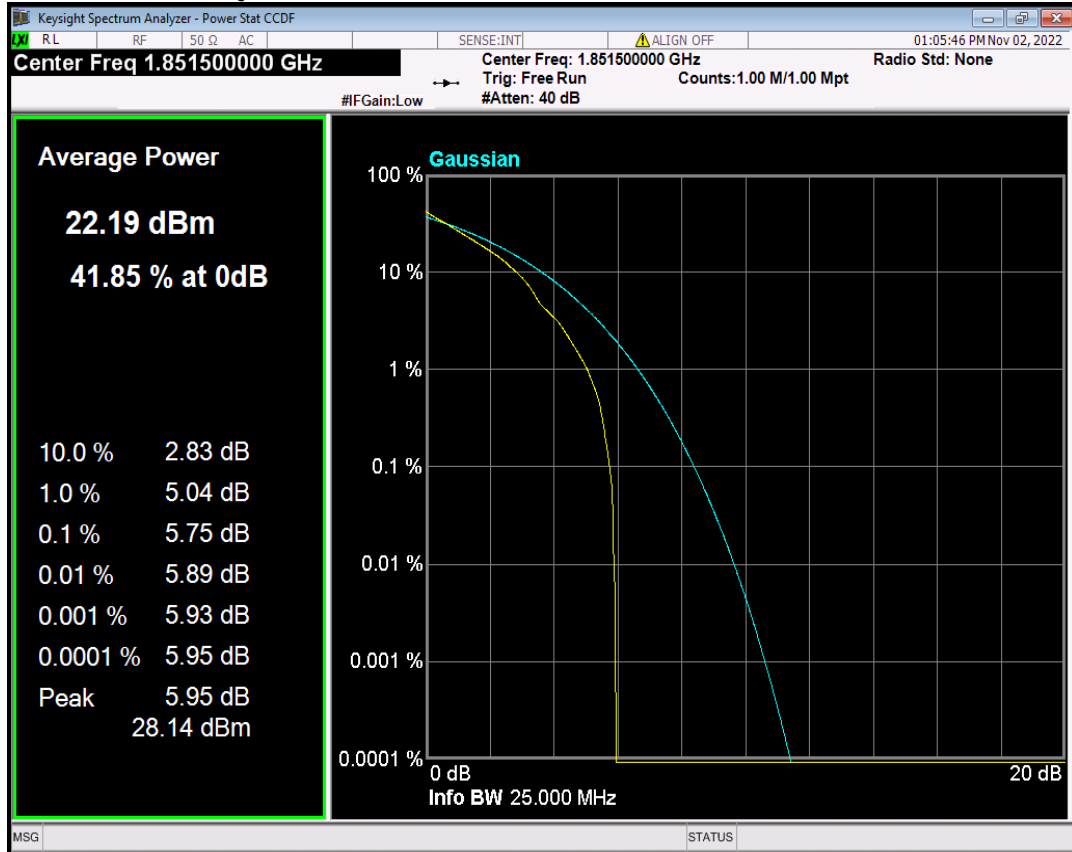
Band2 QPSK BW=20MHz Channel=18900 RB Size=1 Position=#0



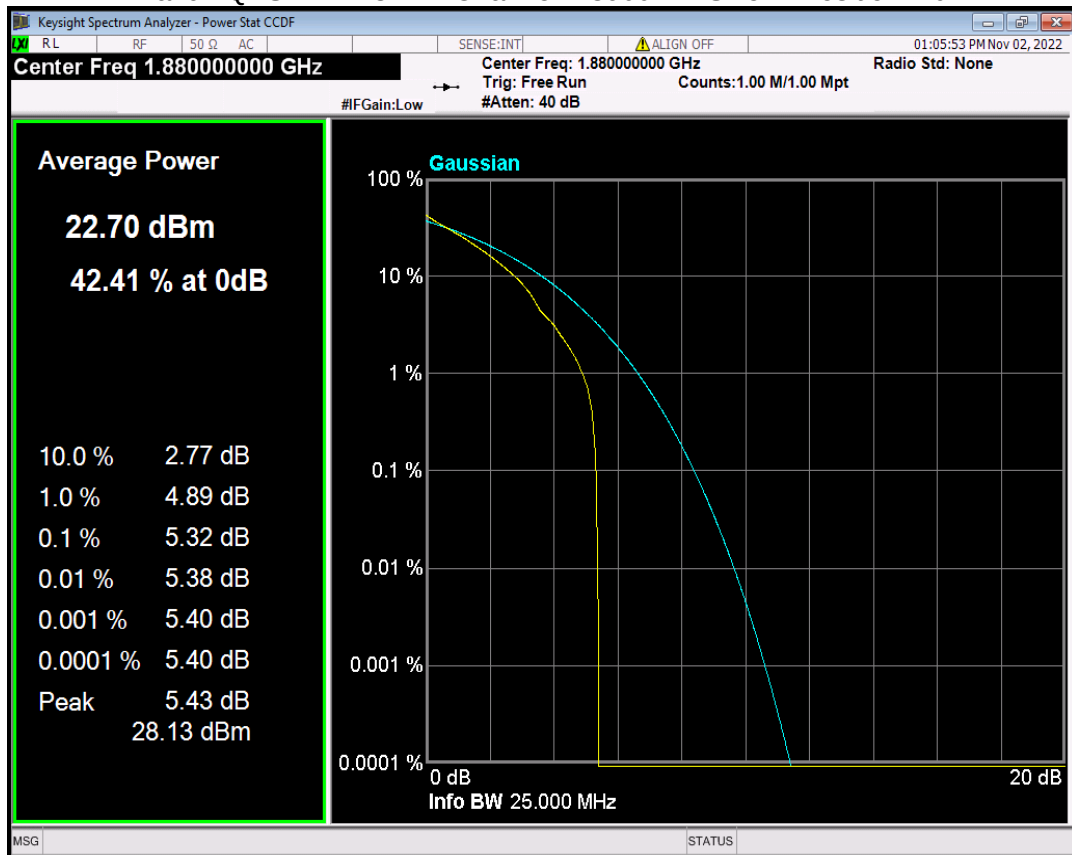
Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#0



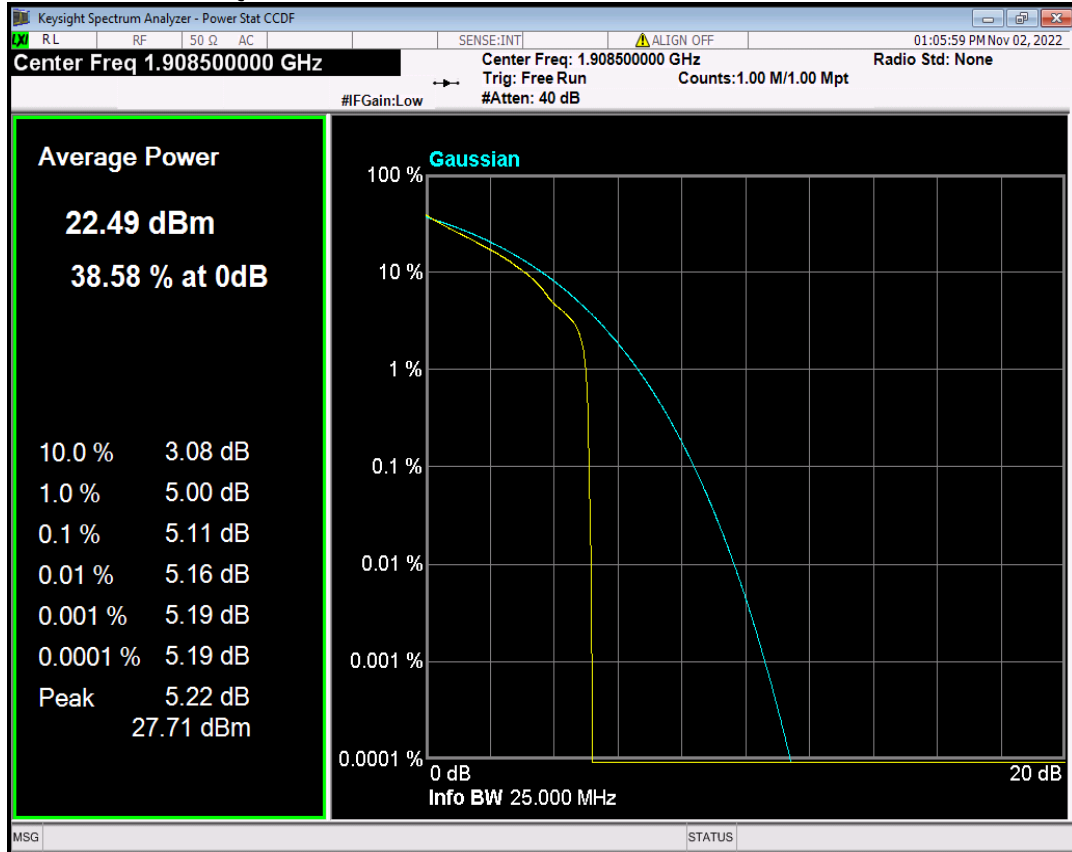
Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#0



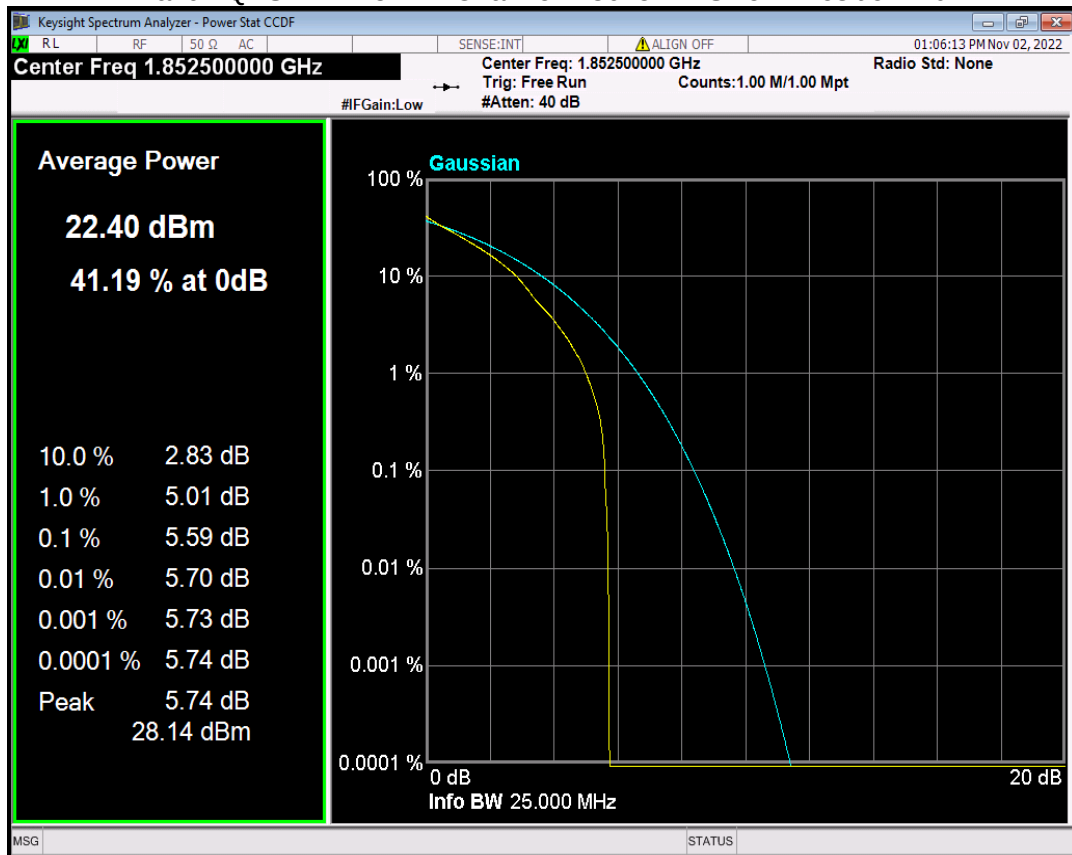
Band2 QPSK BW=3MHz Channel=18900 RB Size=1 Position=#0



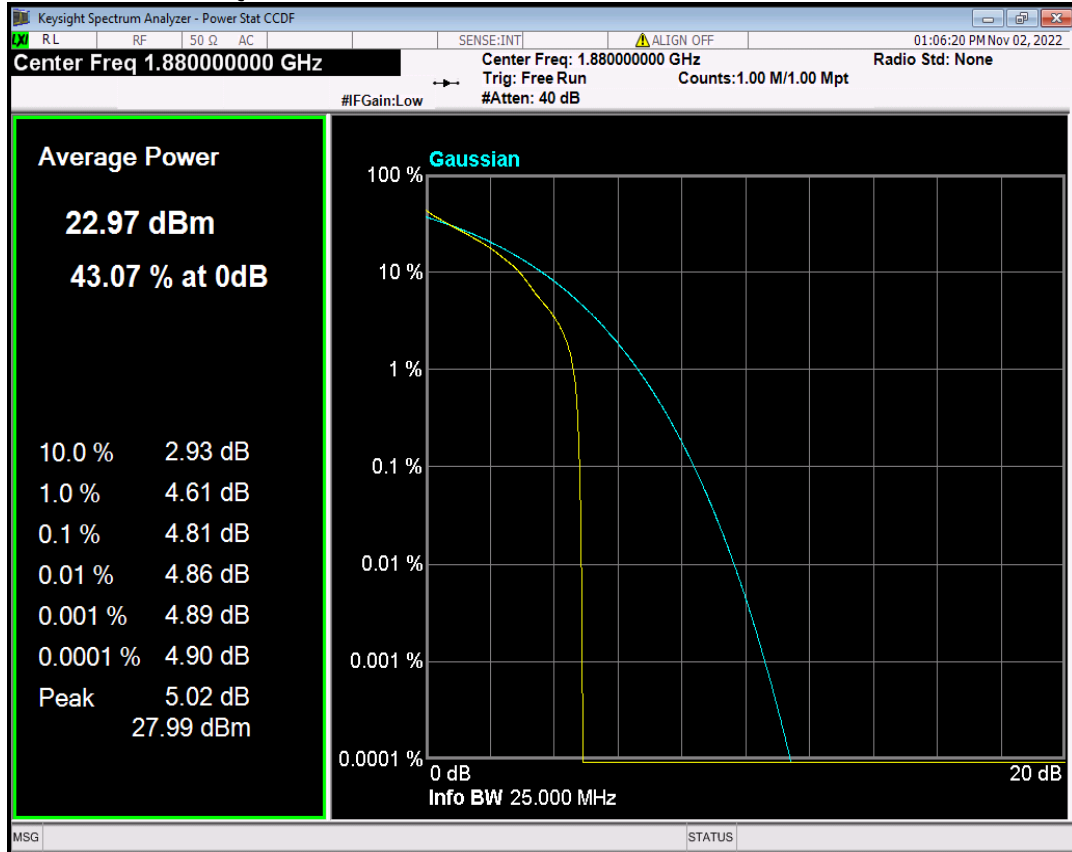
Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#0



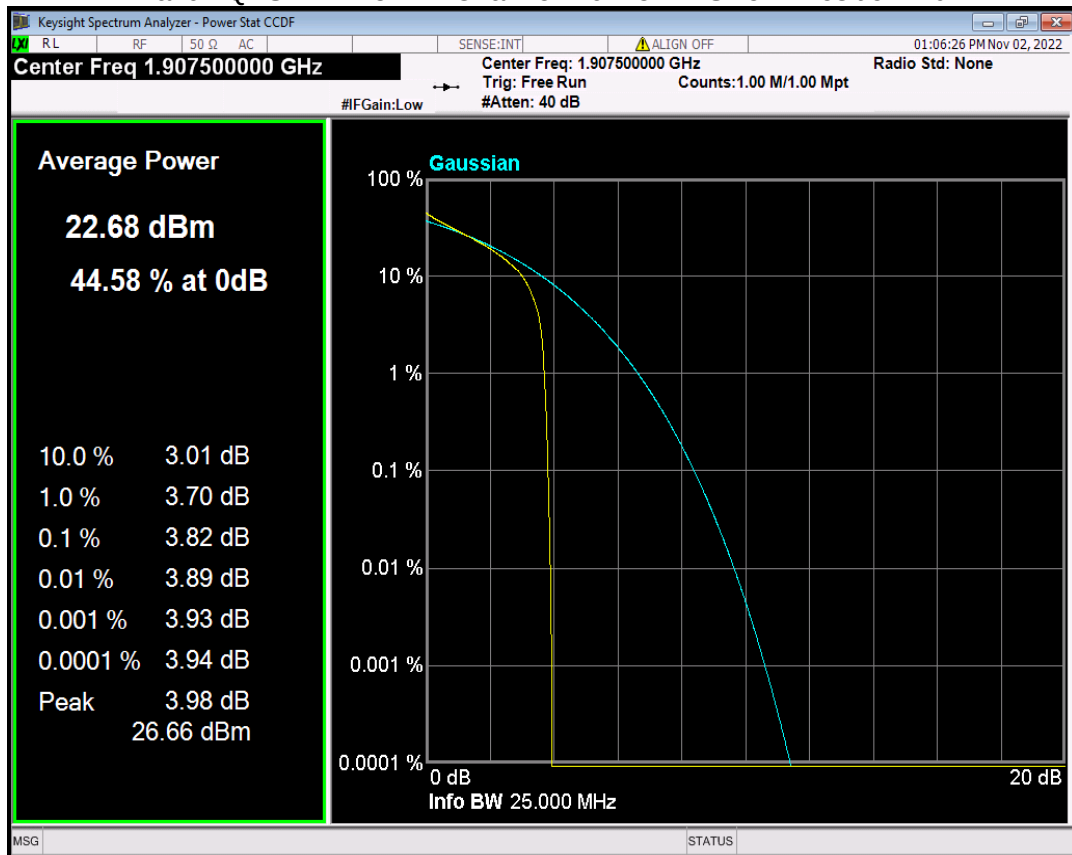
Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#0



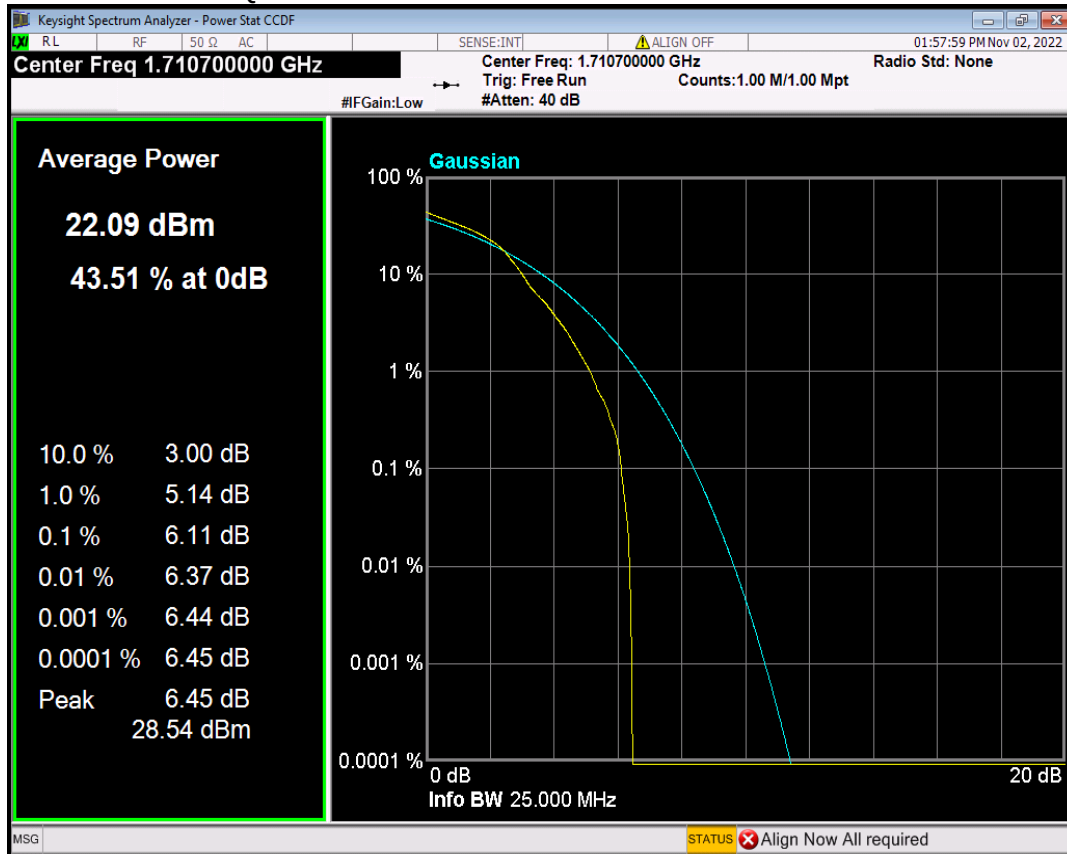
Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0



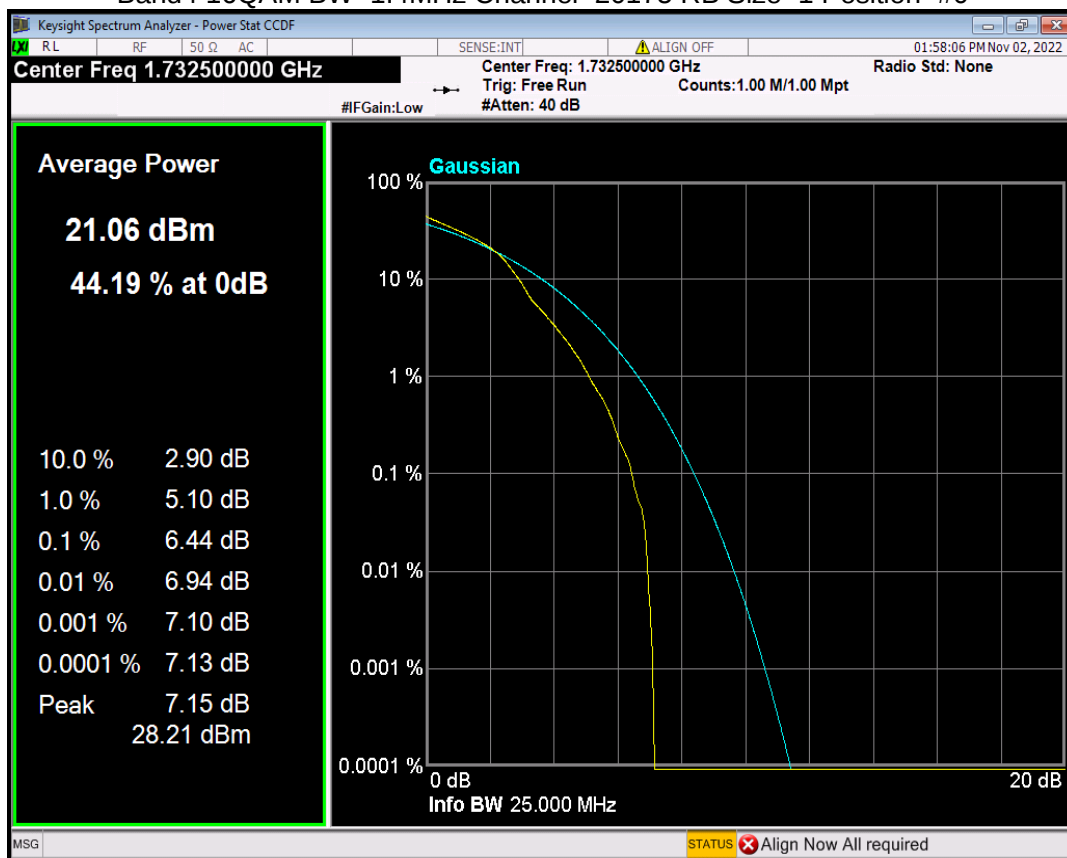
Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0



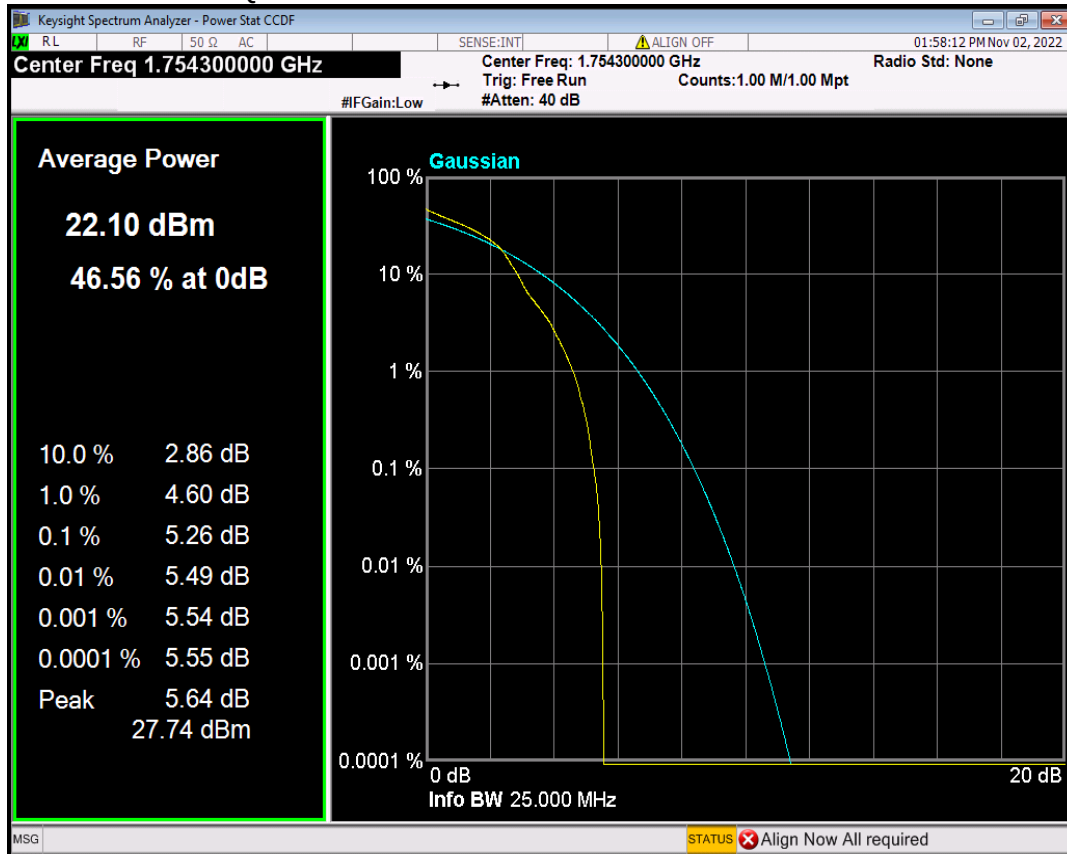
Band4 16QAM BW=1.4MHz Channel=19957 RB Size=1 Position=#0



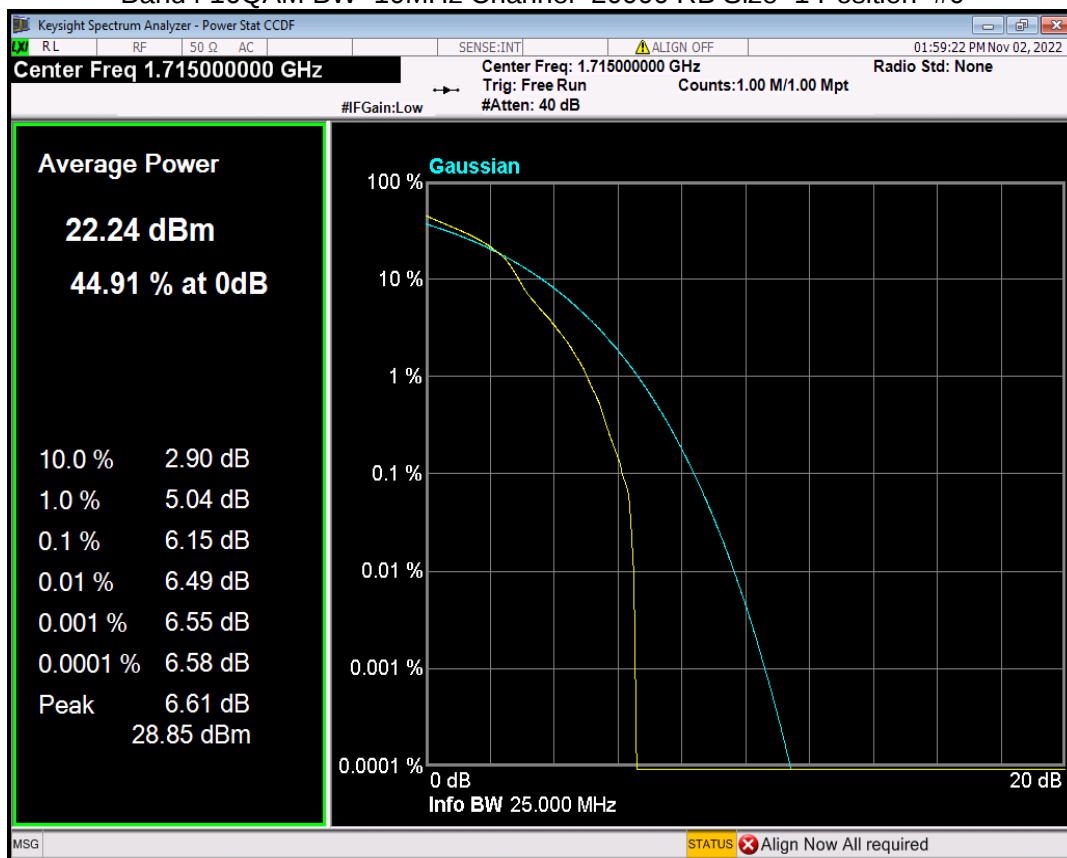
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=1 Position=#0



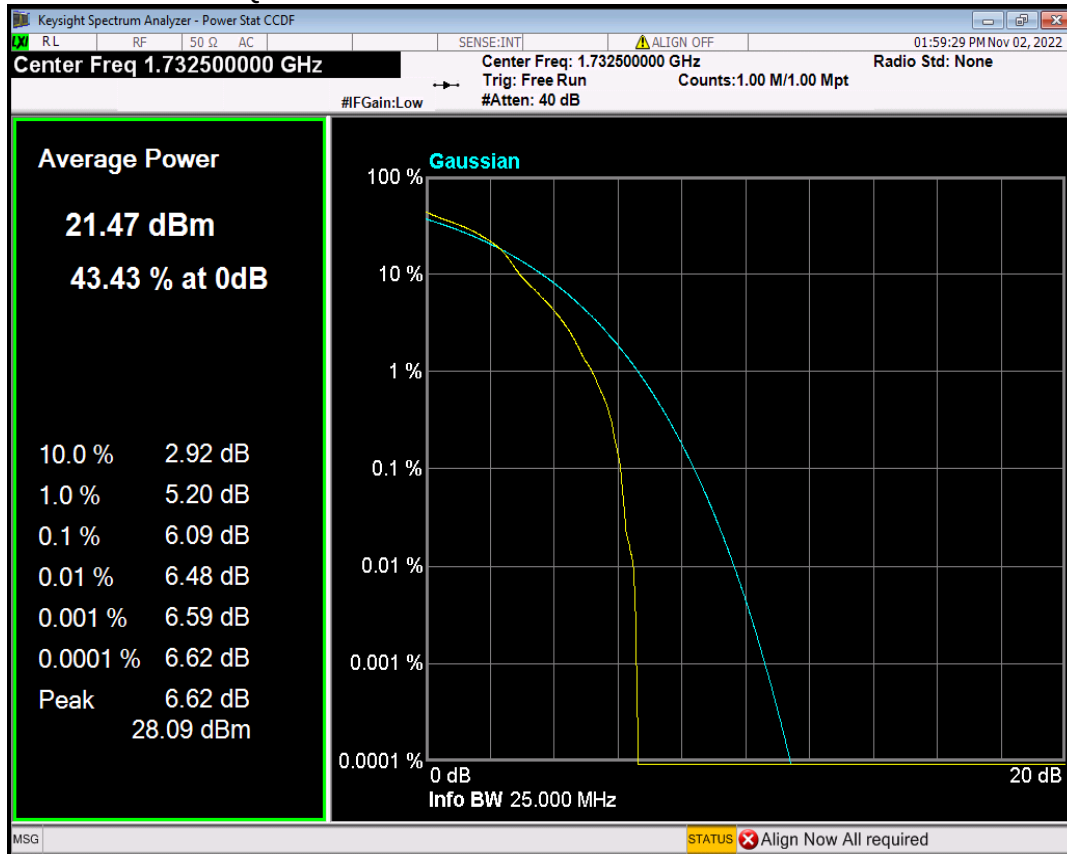
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=1 Position=#0



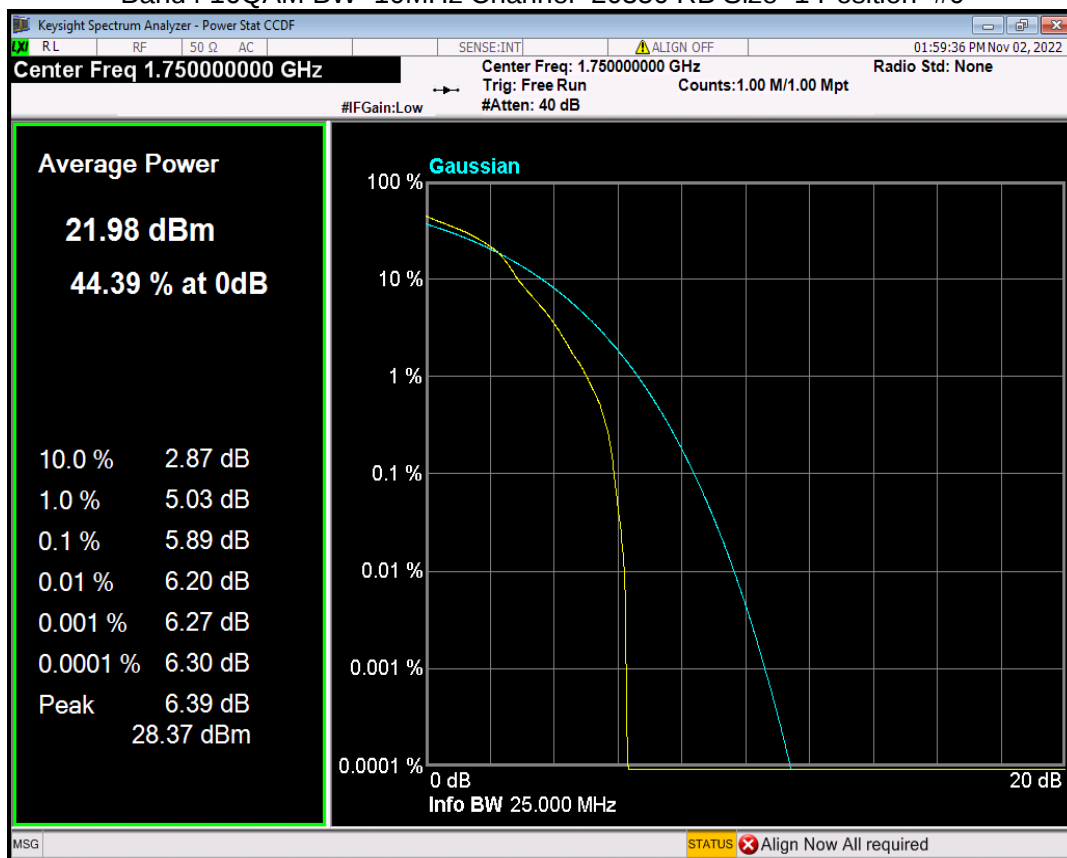
Band4 16QAM BW=10MHz Channel=20000 RB Size=1 Position=#0



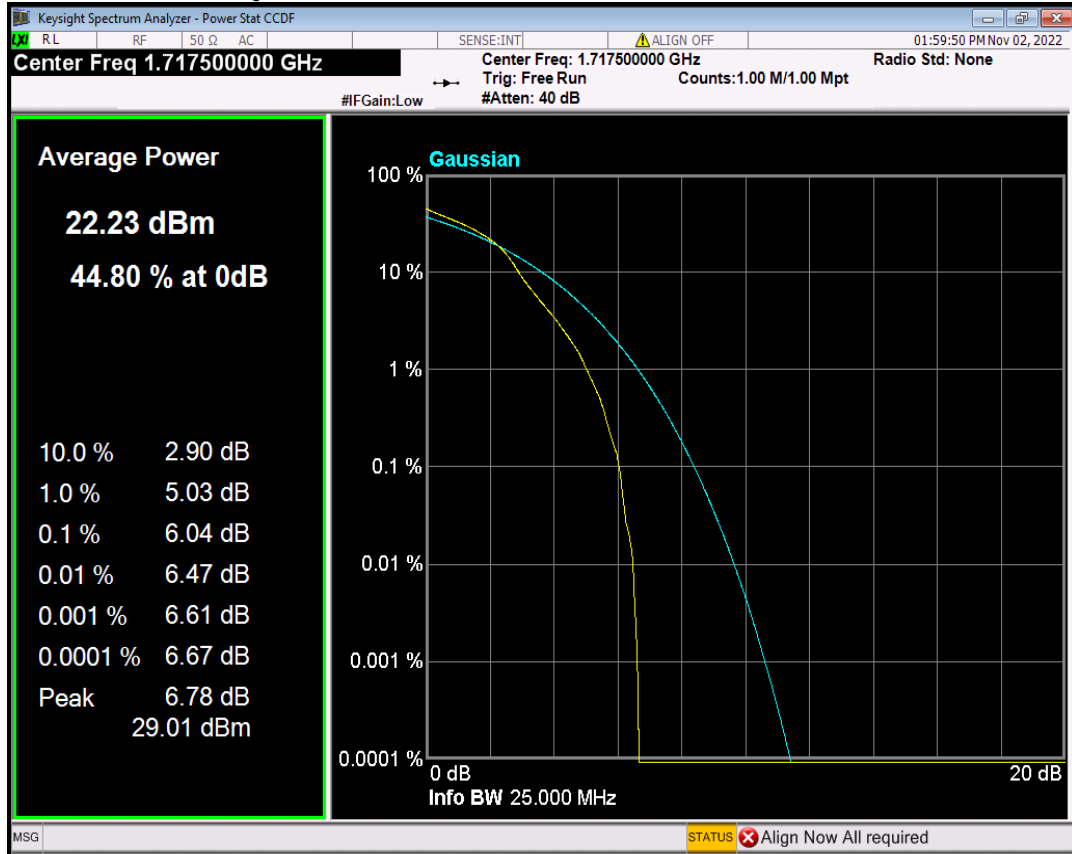
Band4 16QAM BW=10MHz Channel=20175 RB Size=1 Position=#0



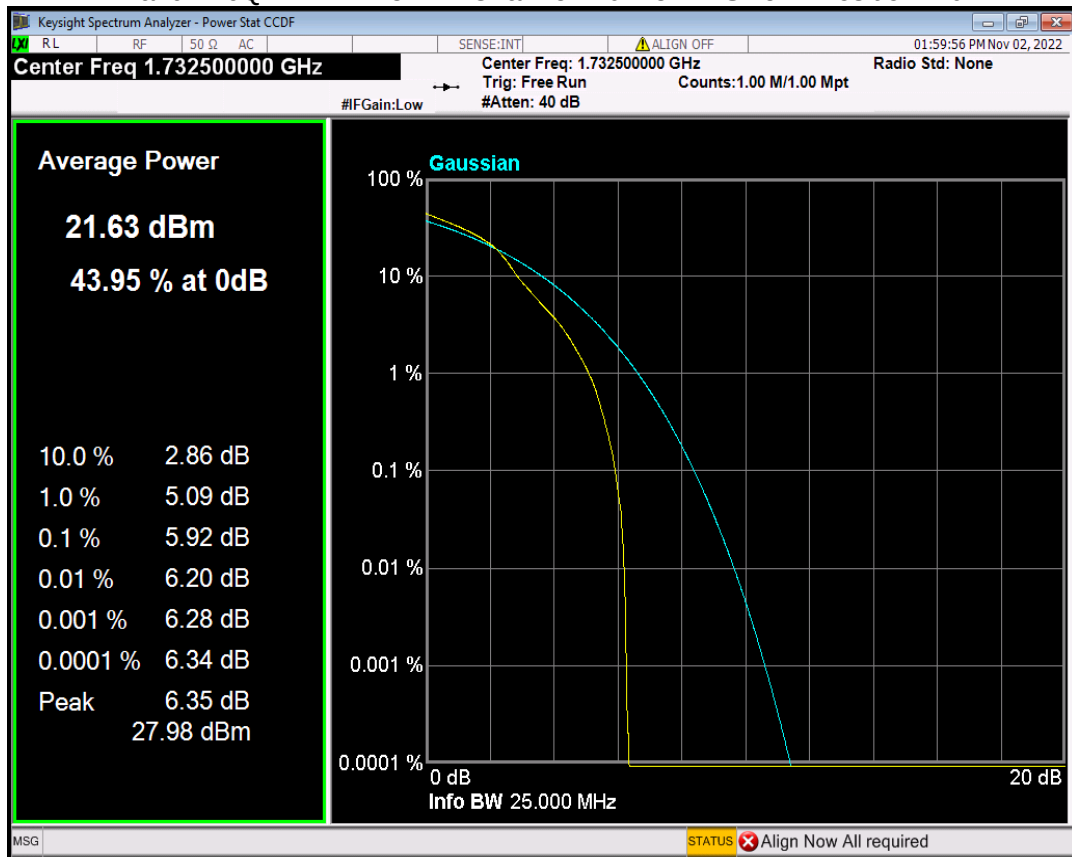
Band4 16QAM BW=10MHz Channel=20350 RB Size=1 Position=#0



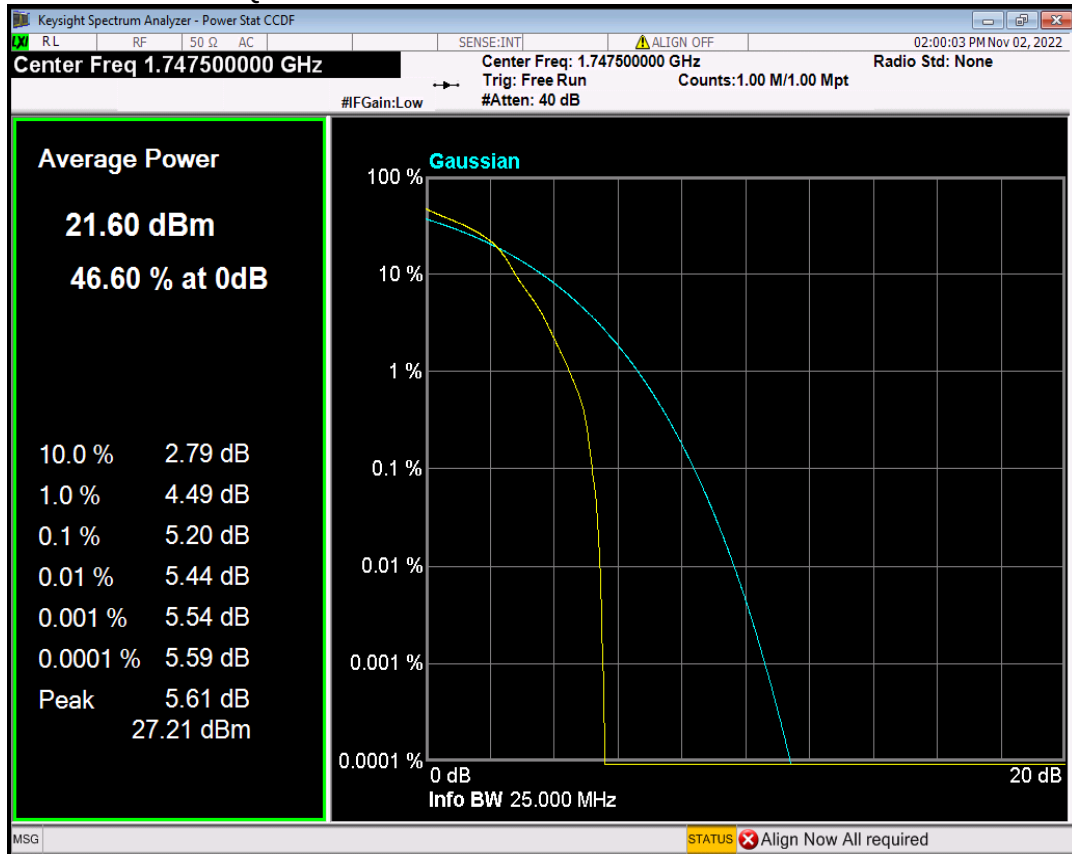
Band4 16QAM BW=15MHz Channel=20025 RB Size=1 Position=#0



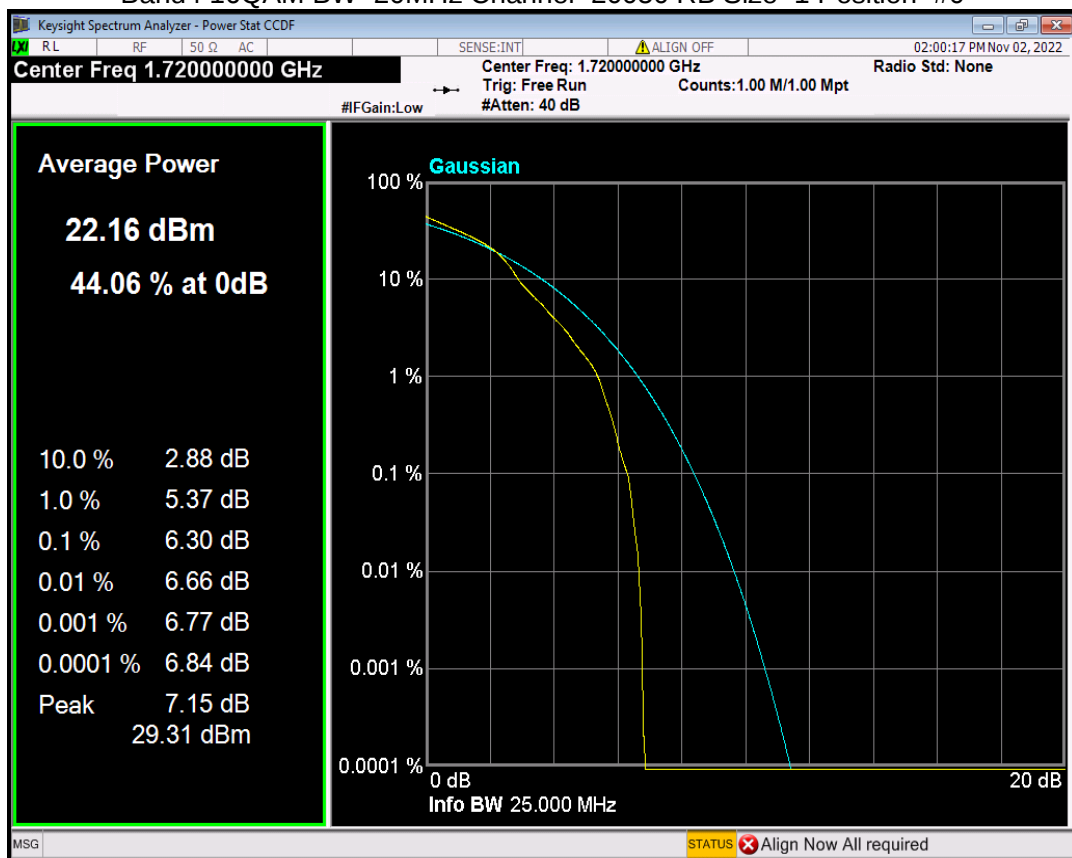
Band4 16QAM BW=15MHz Channel=20175 RB Size=1 Position=#0



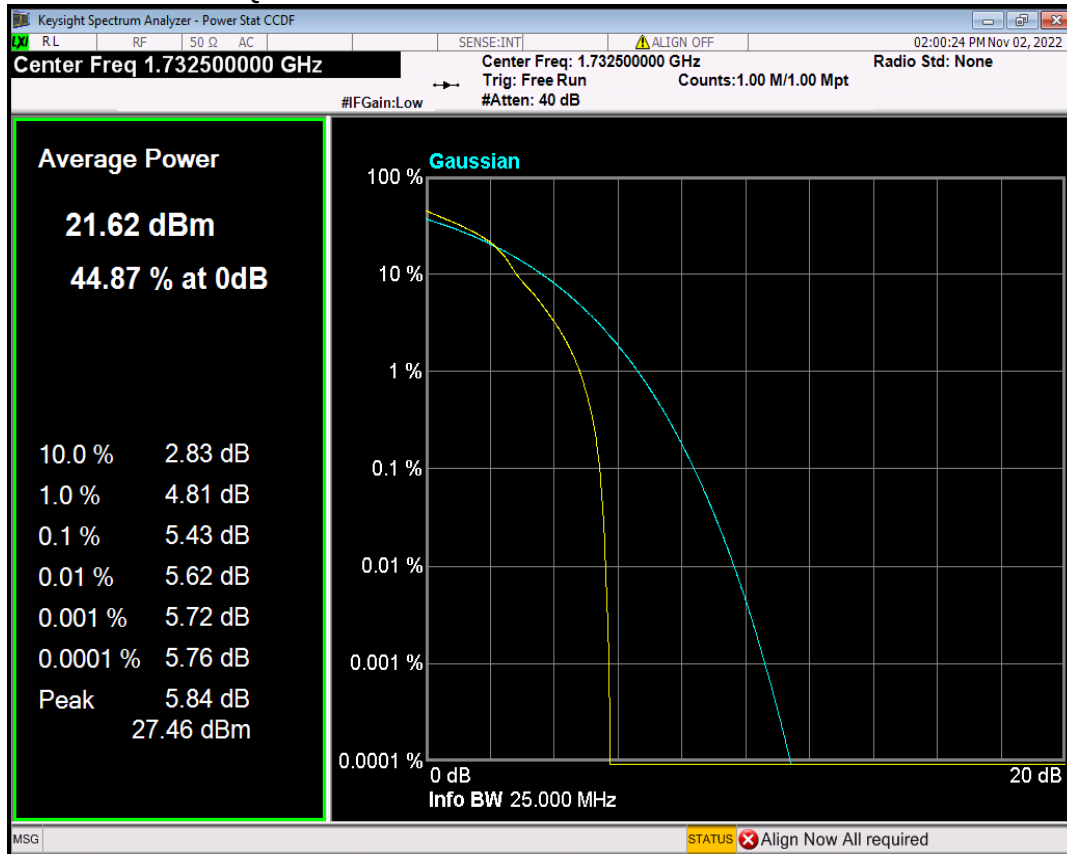
Band4 16QAM BW=15MHz Channel=20325 RB Size=1 Position=#0



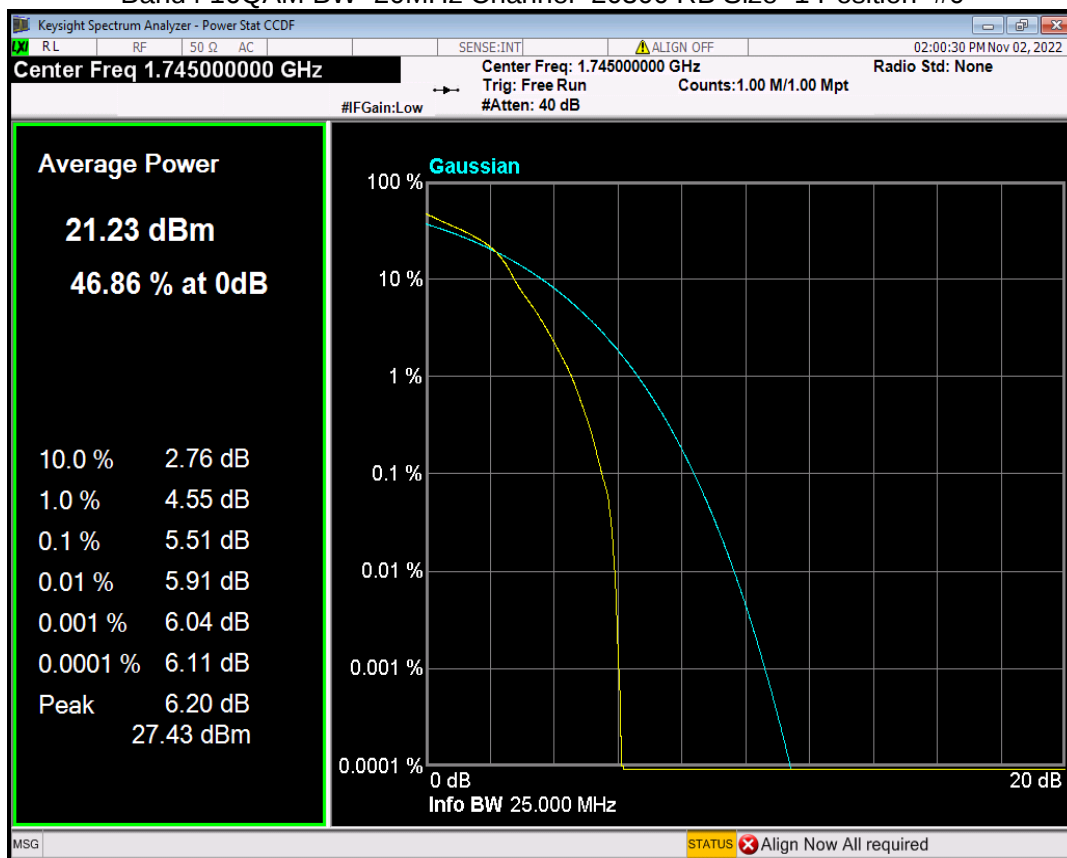
Band4 16QAM BW=20MHz Channel=20050 RB Size=1 Position=#0



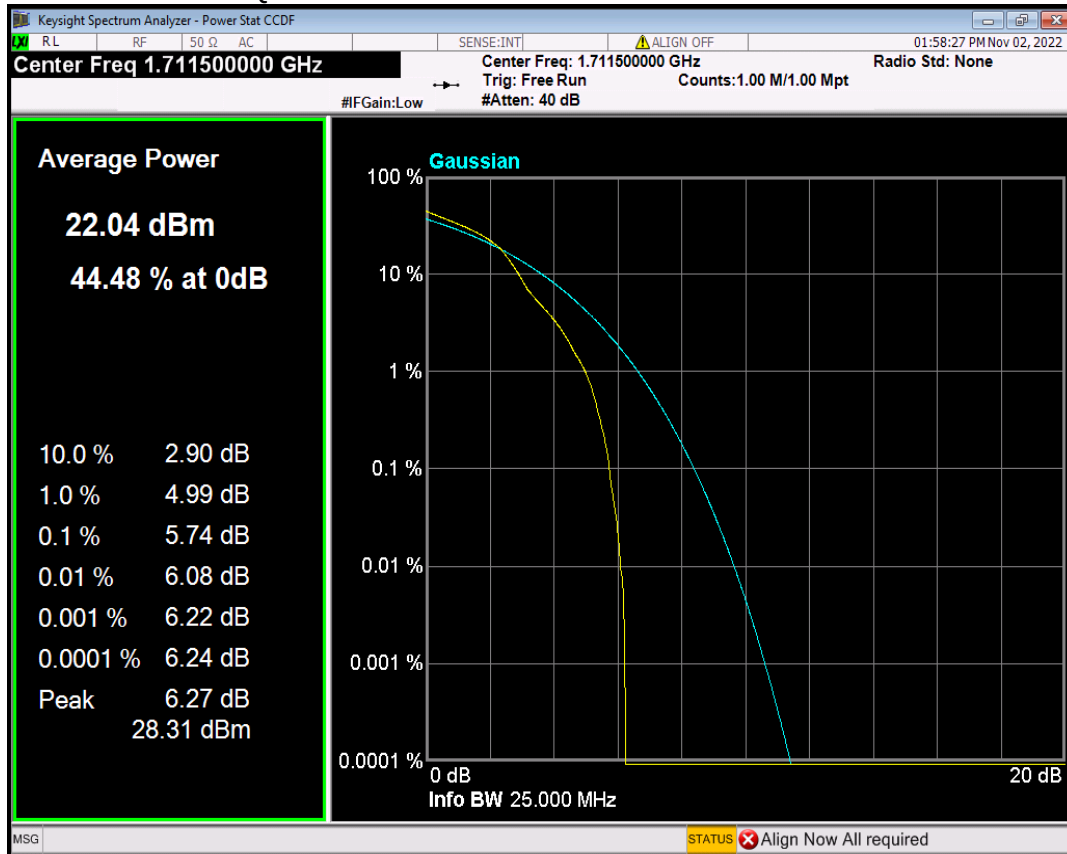
Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0



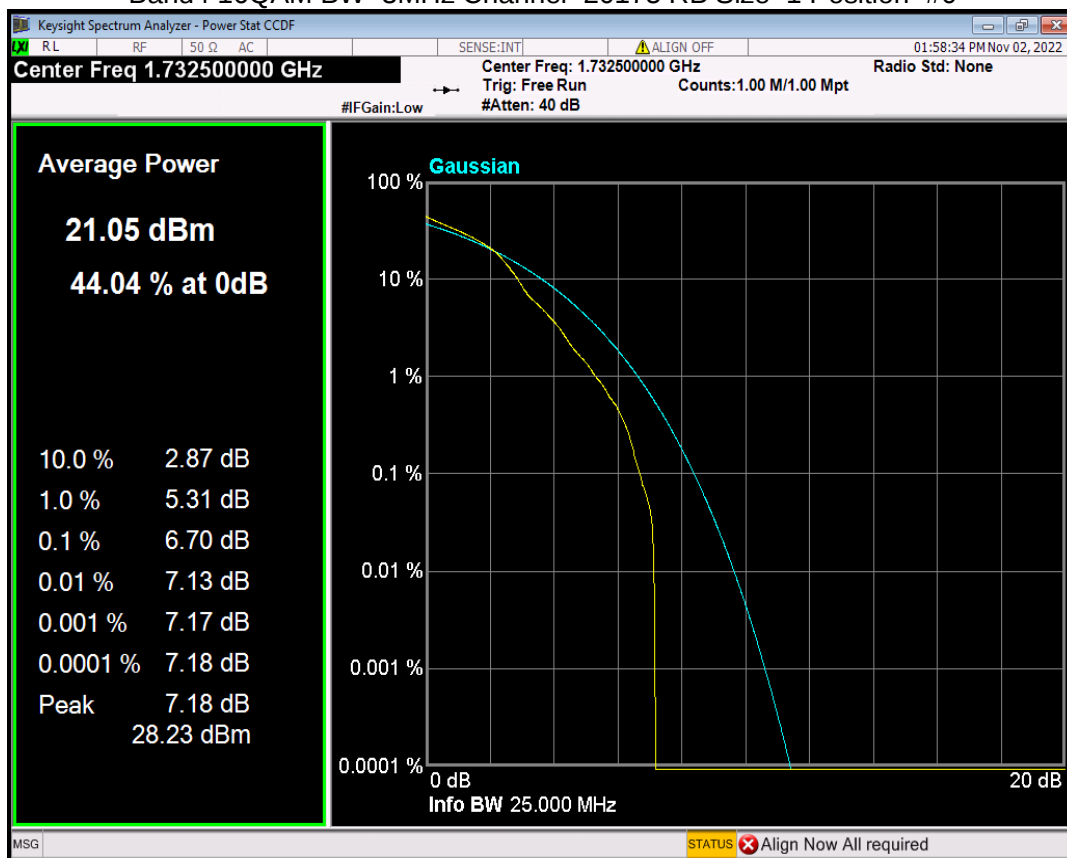
Band4 16QAM BW=20MHz Channel=20300 RB Size=1 Position=#0



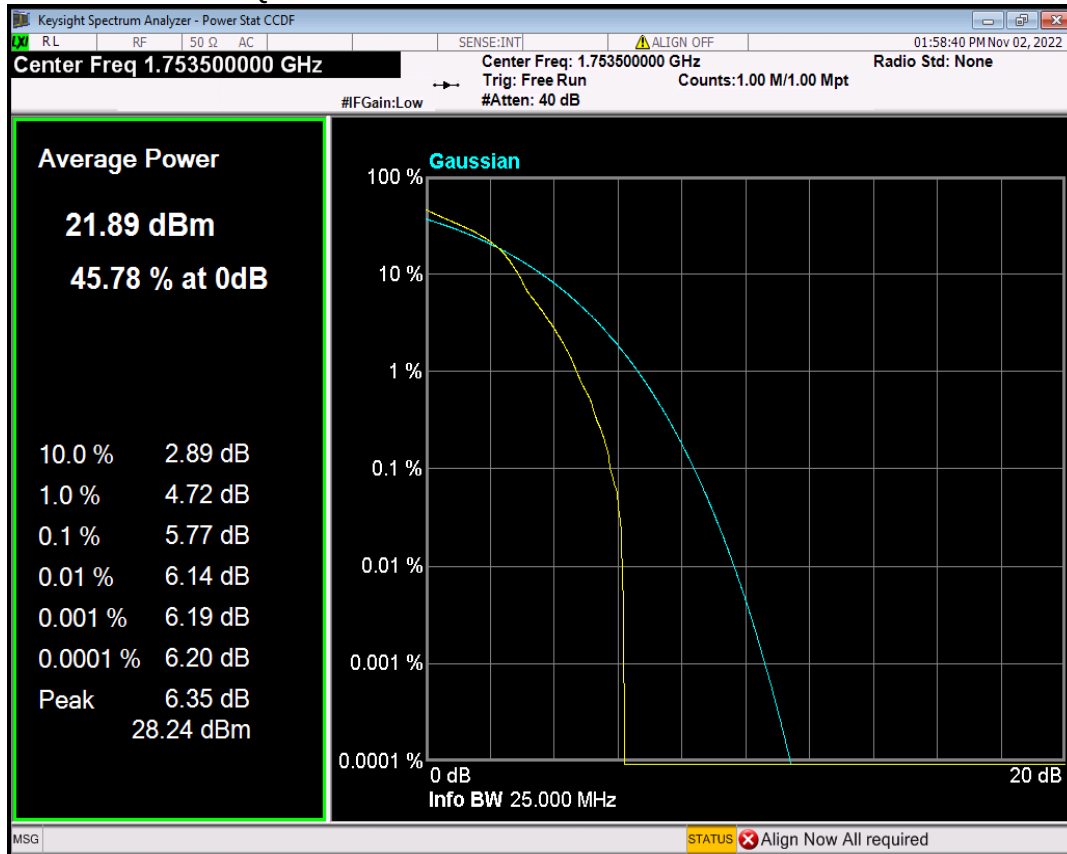
Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0



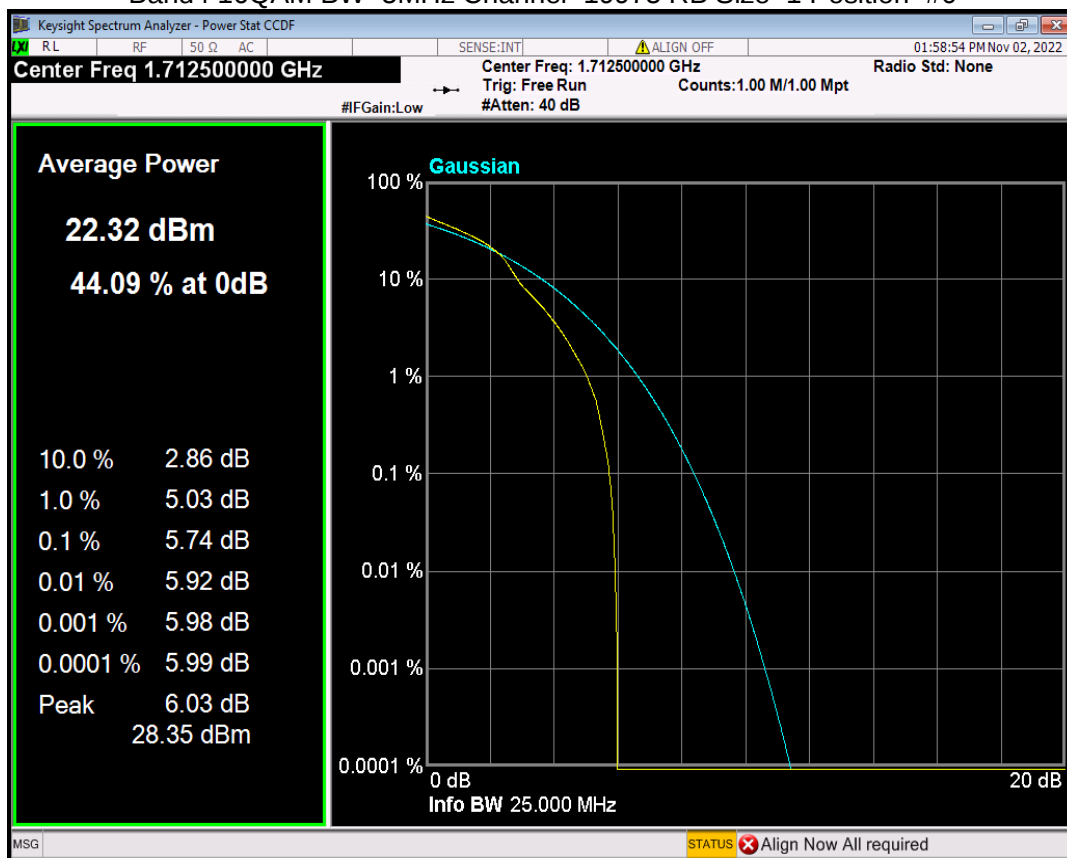
Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0



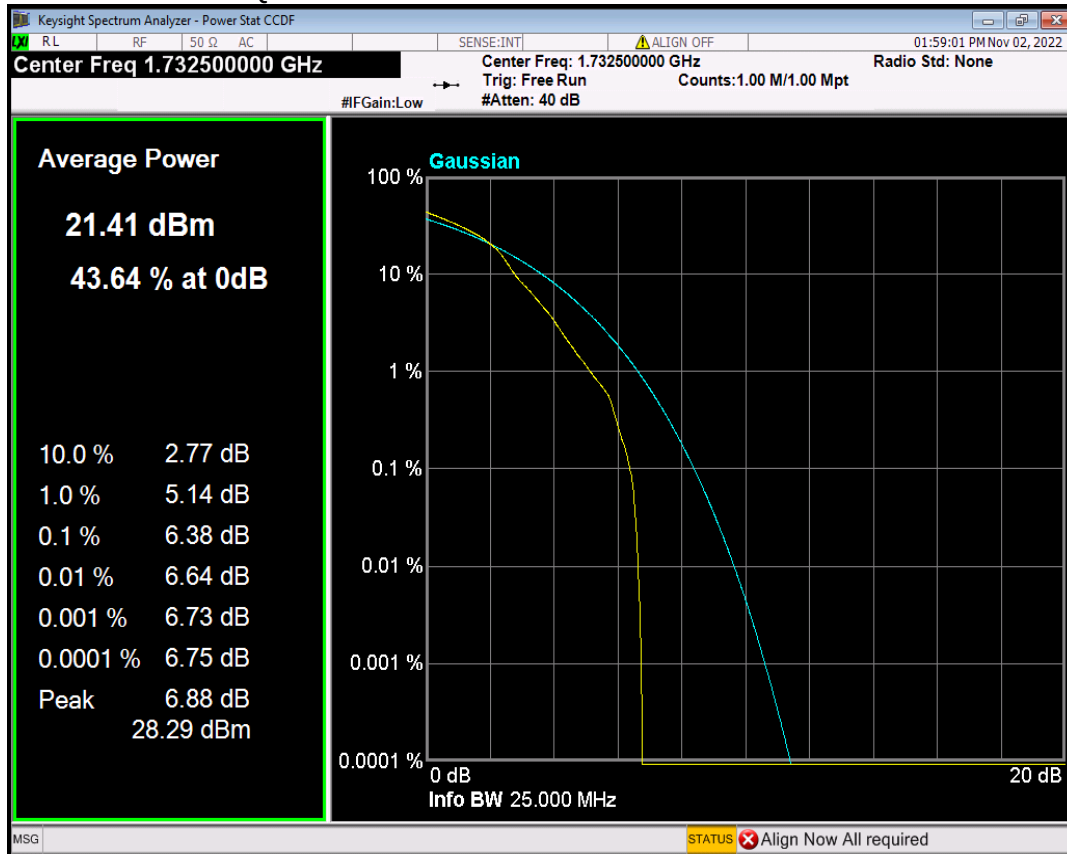
Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0



Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0



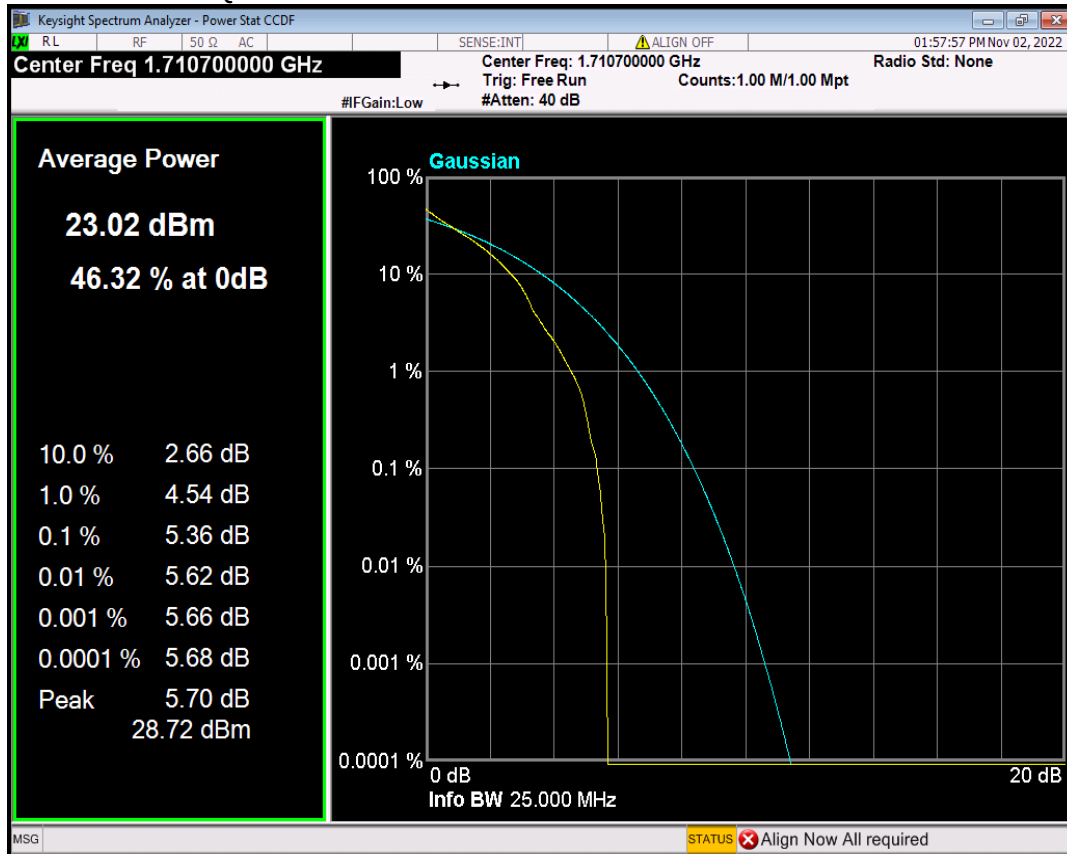
Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0



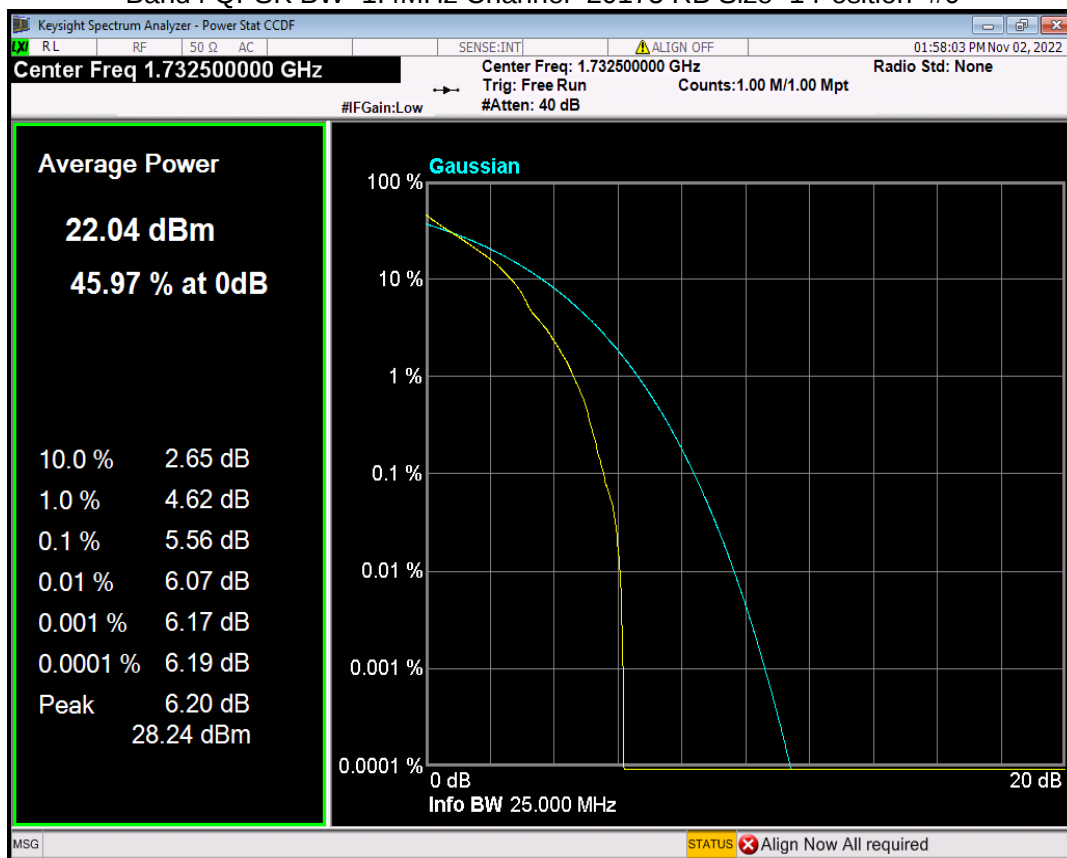
Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0



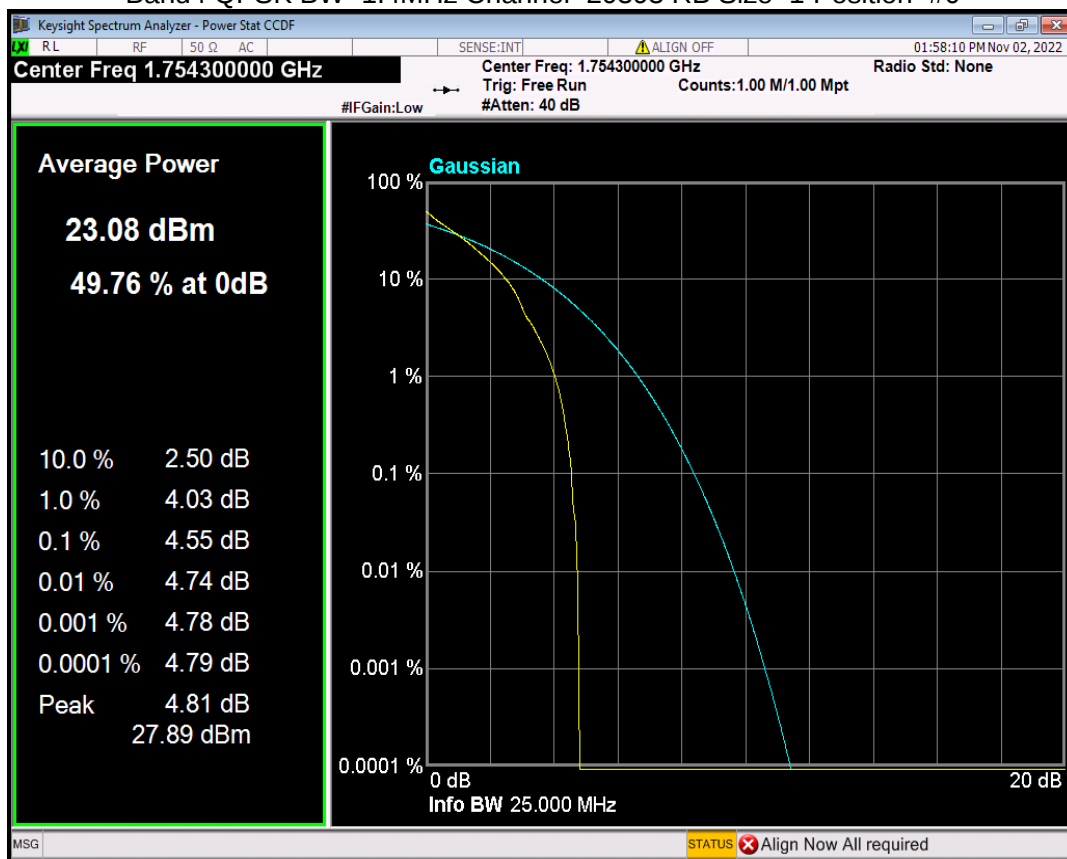
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



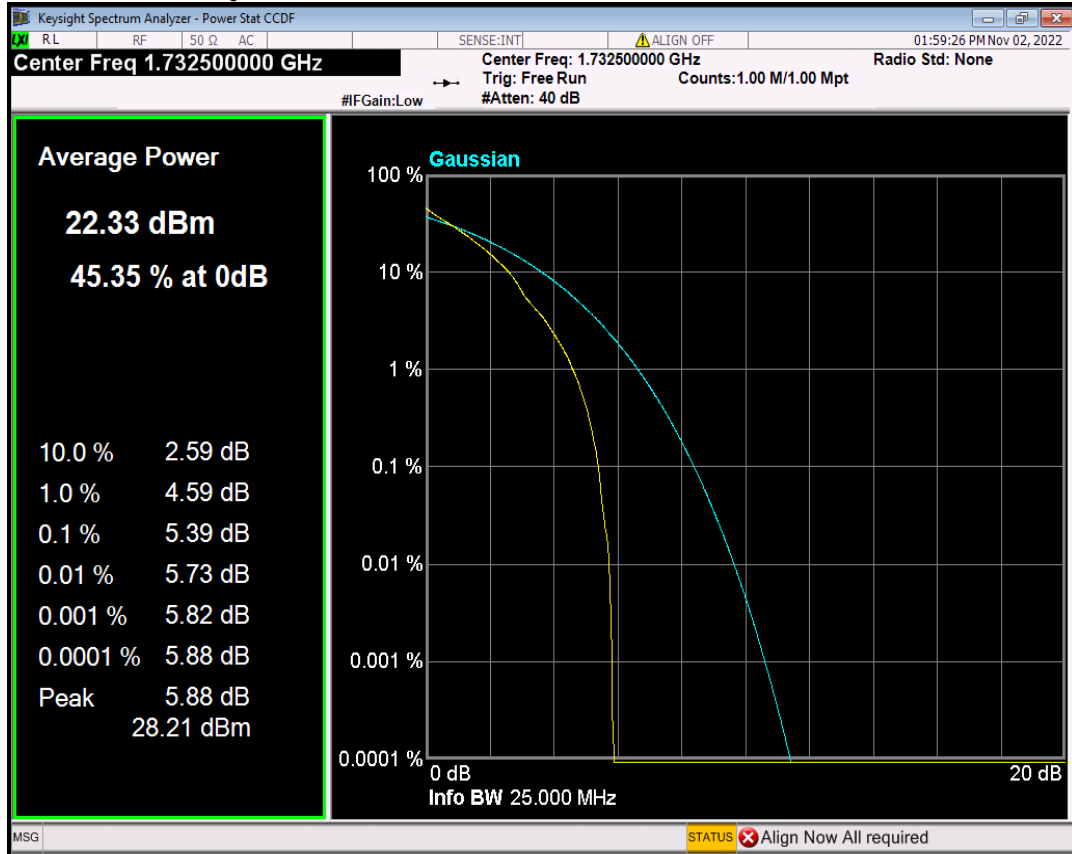
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0



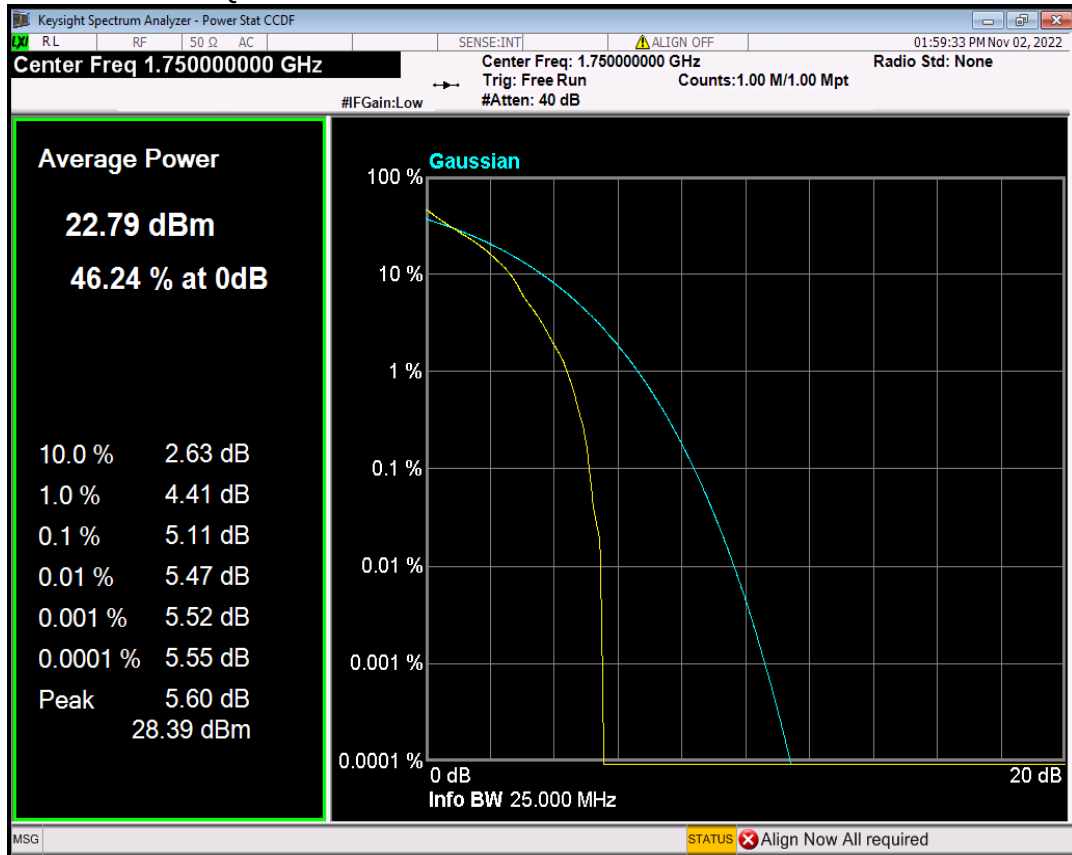
Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



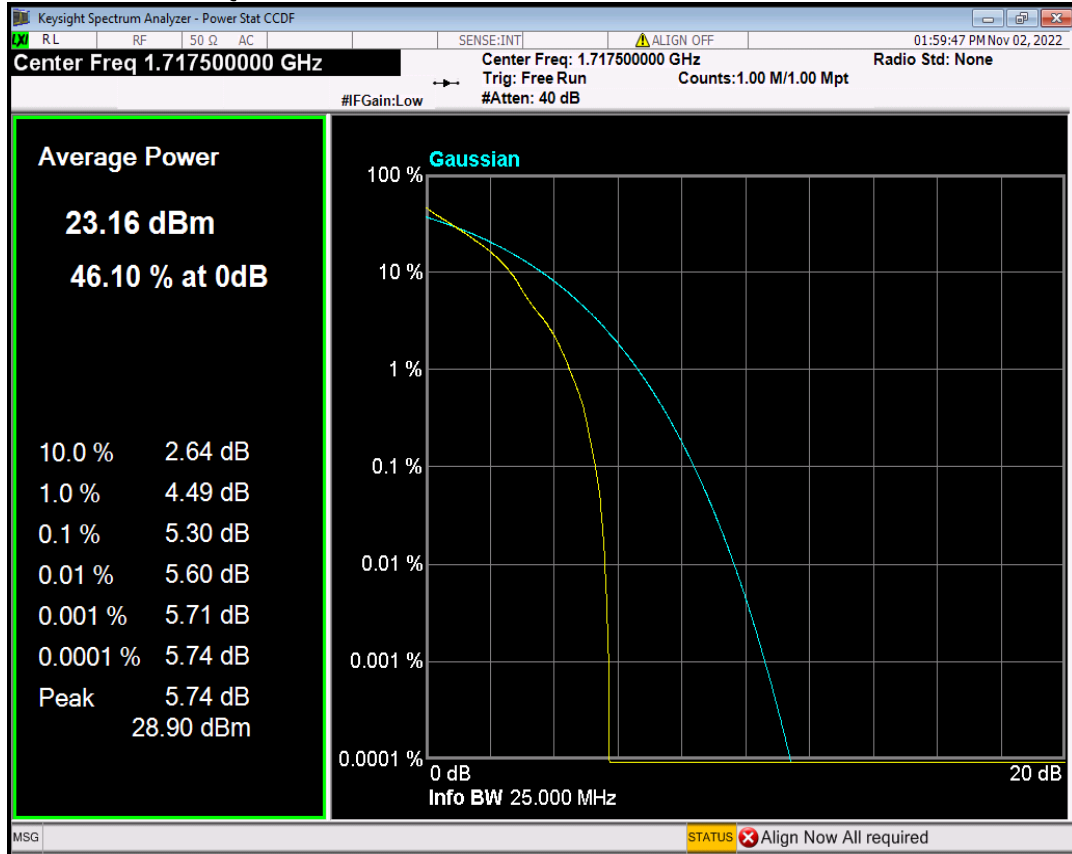
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



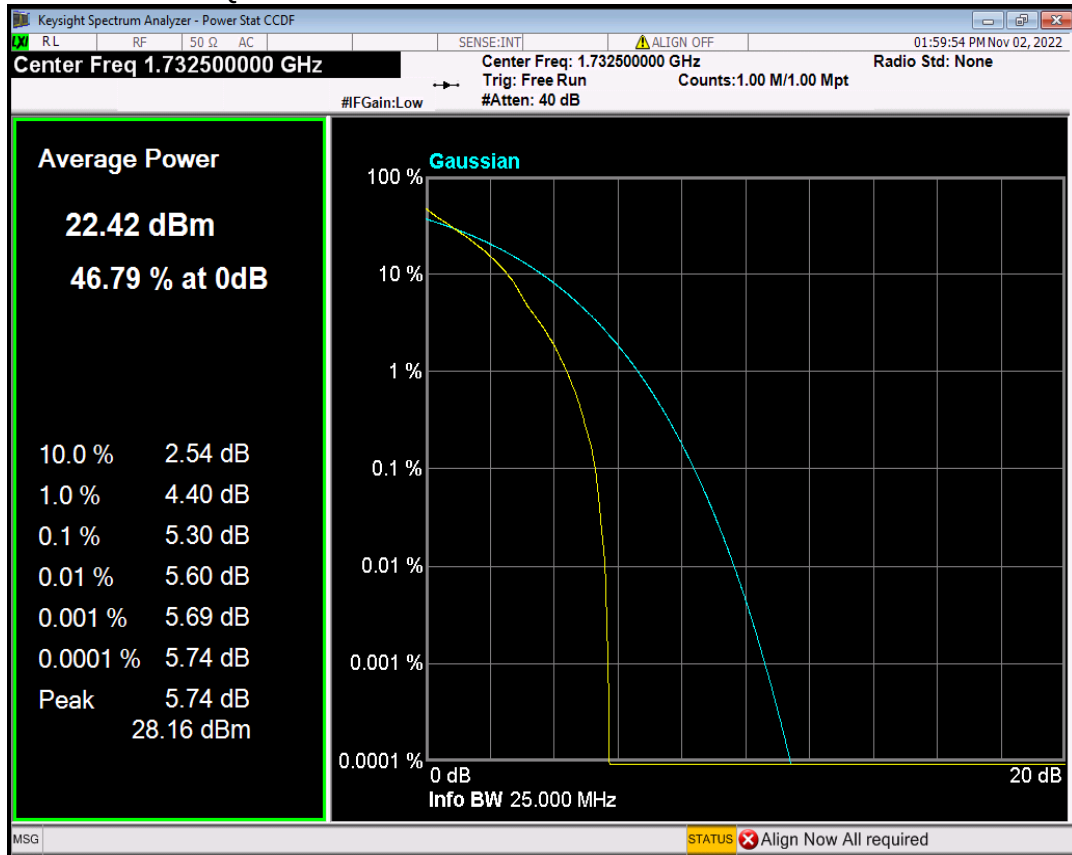
Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0



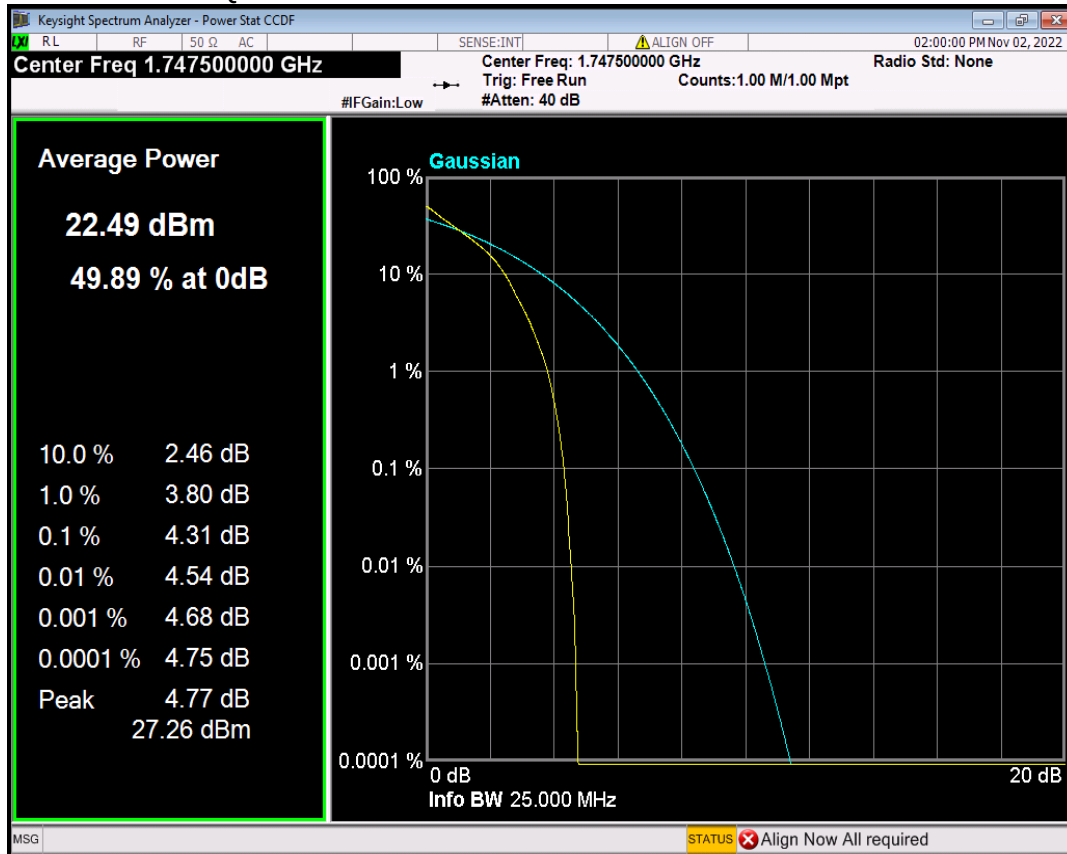
Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0



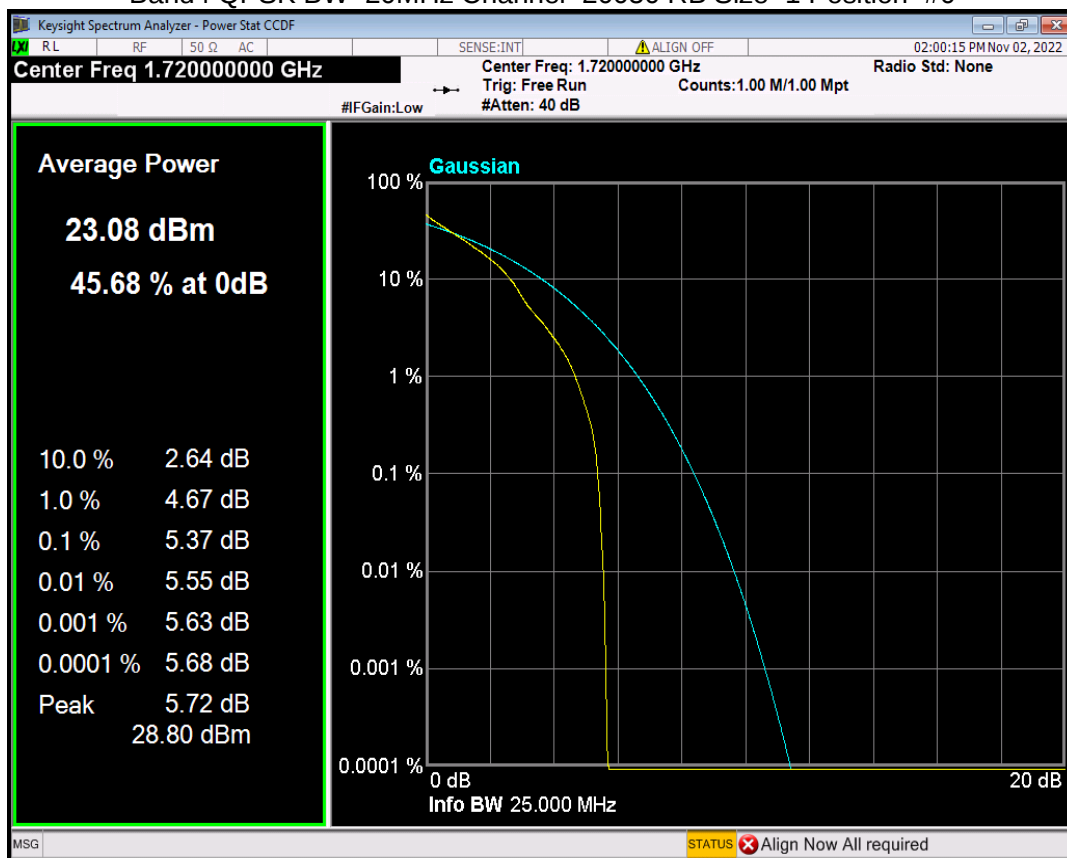
Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



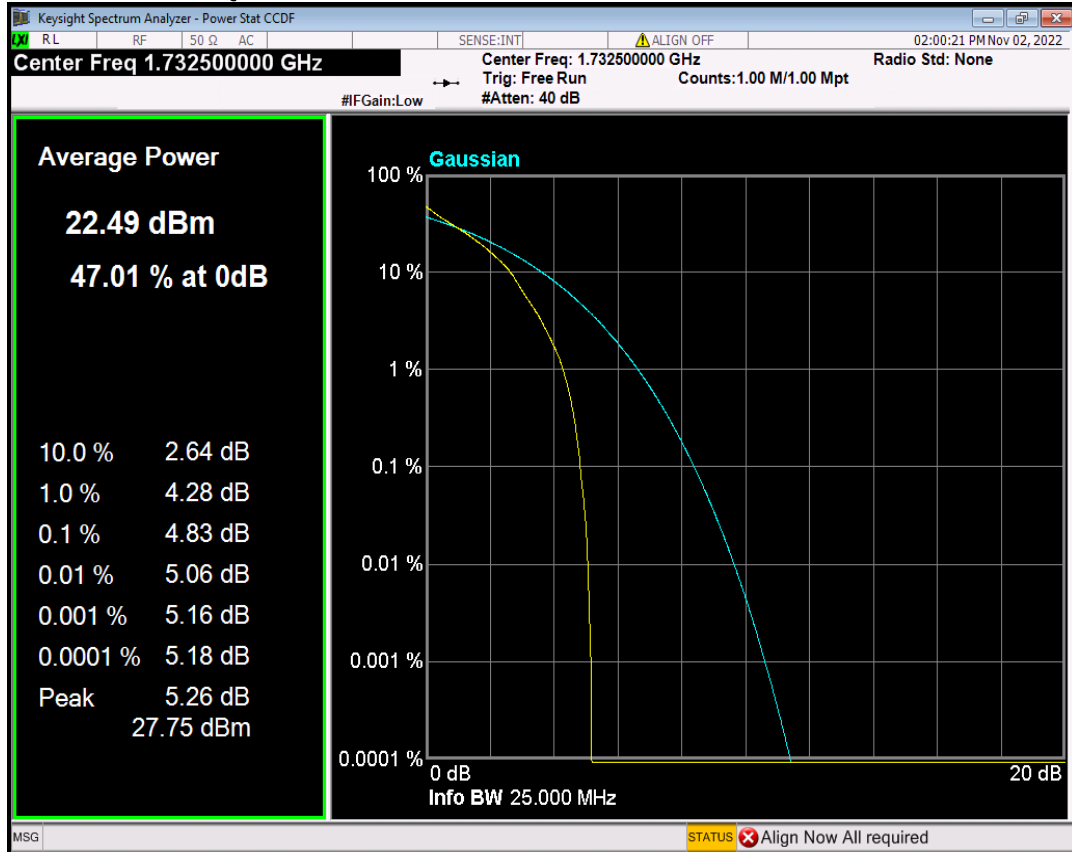
Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0



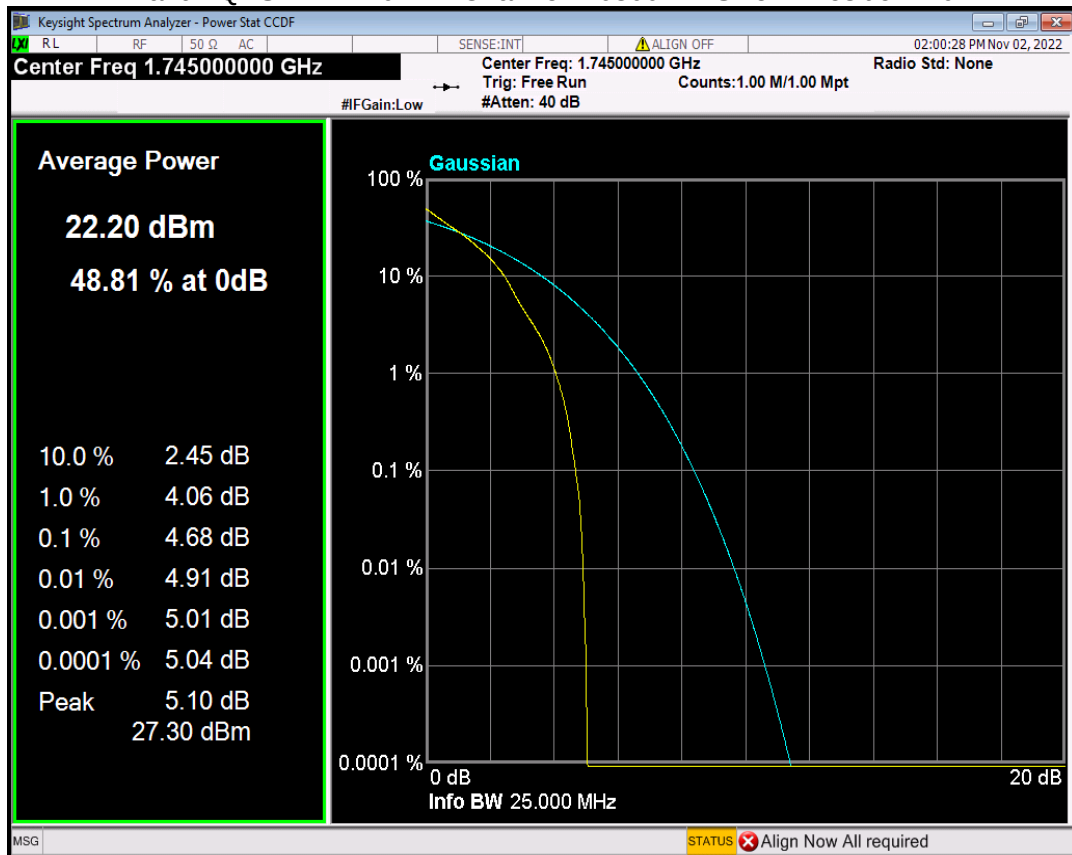
Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0



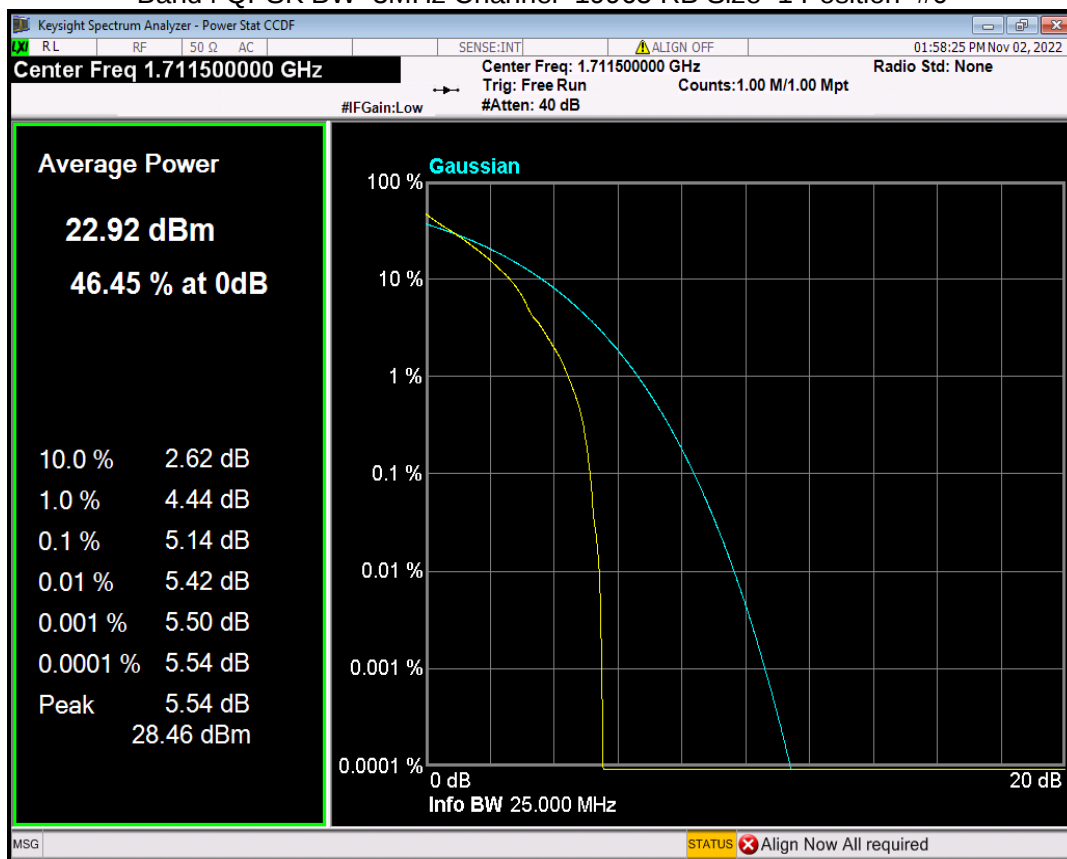
Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



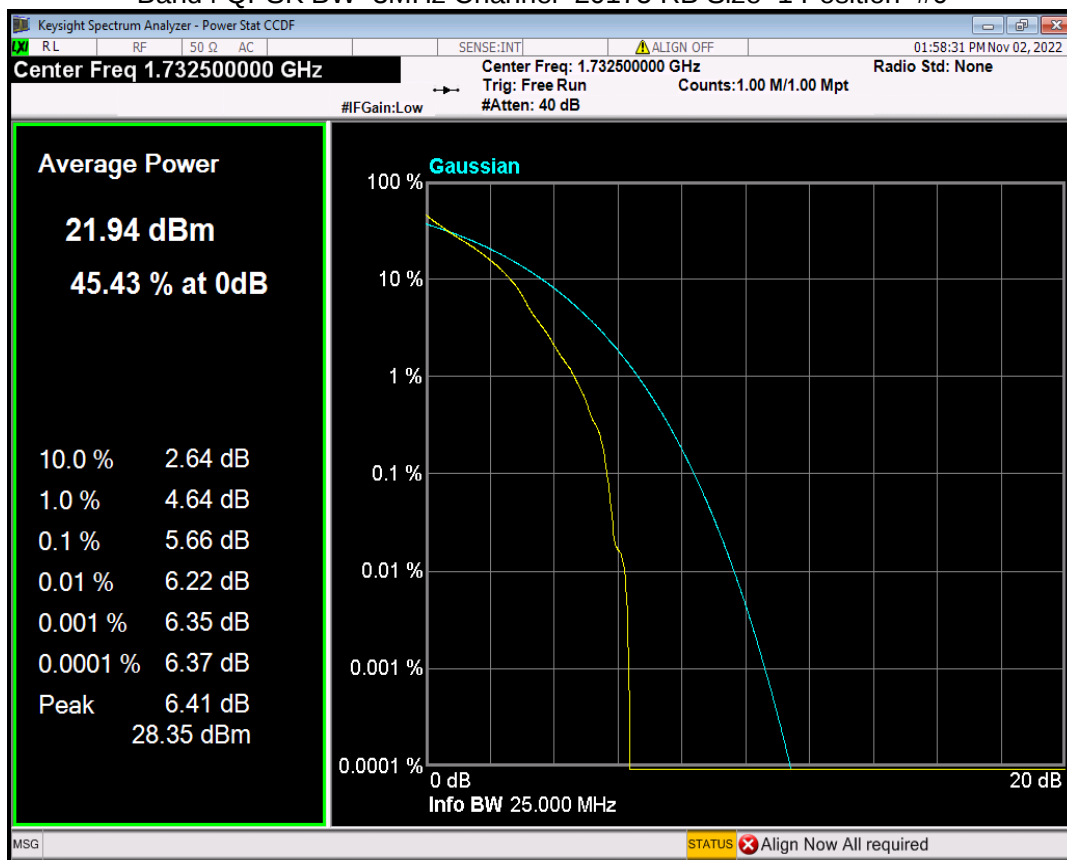
Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



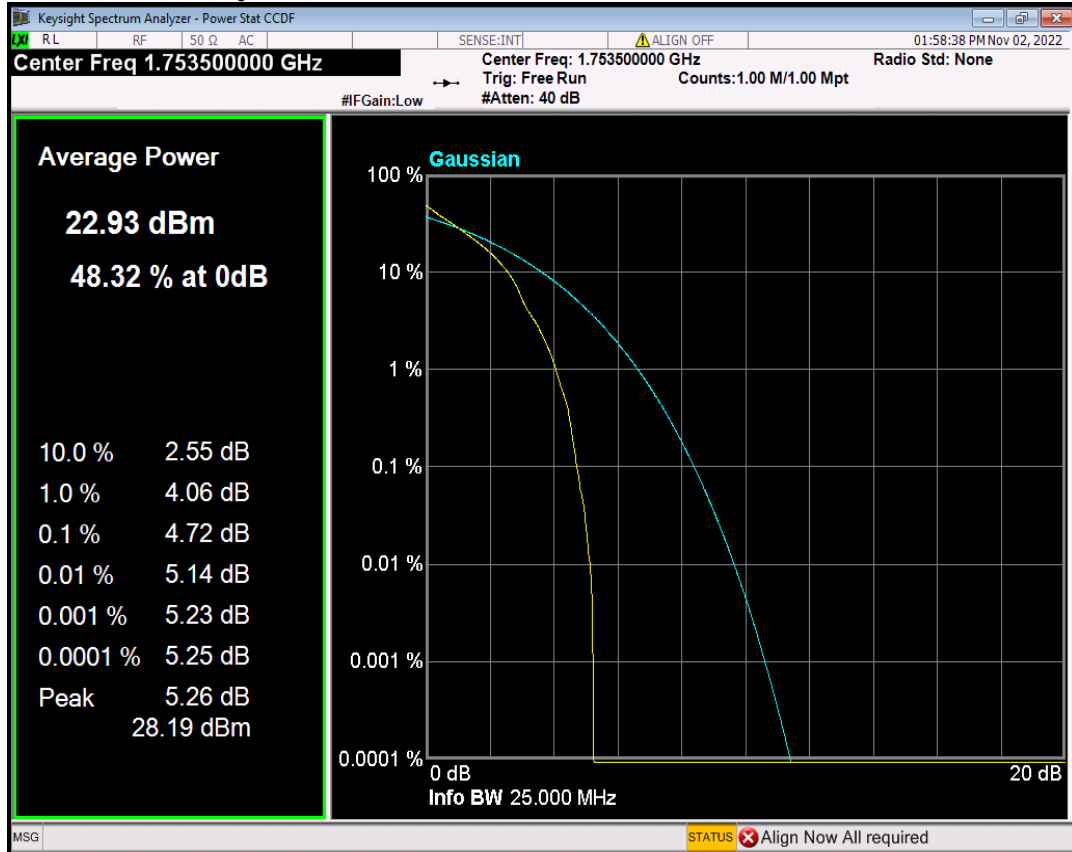
Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0



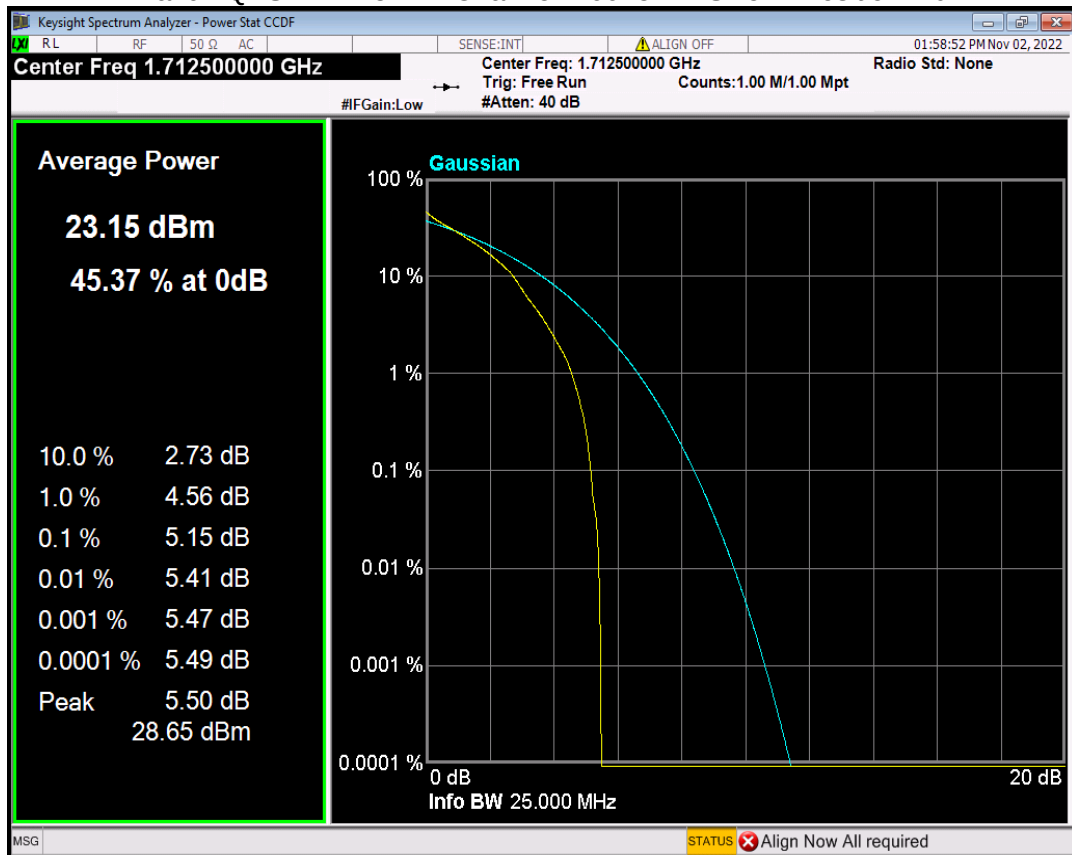
Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0



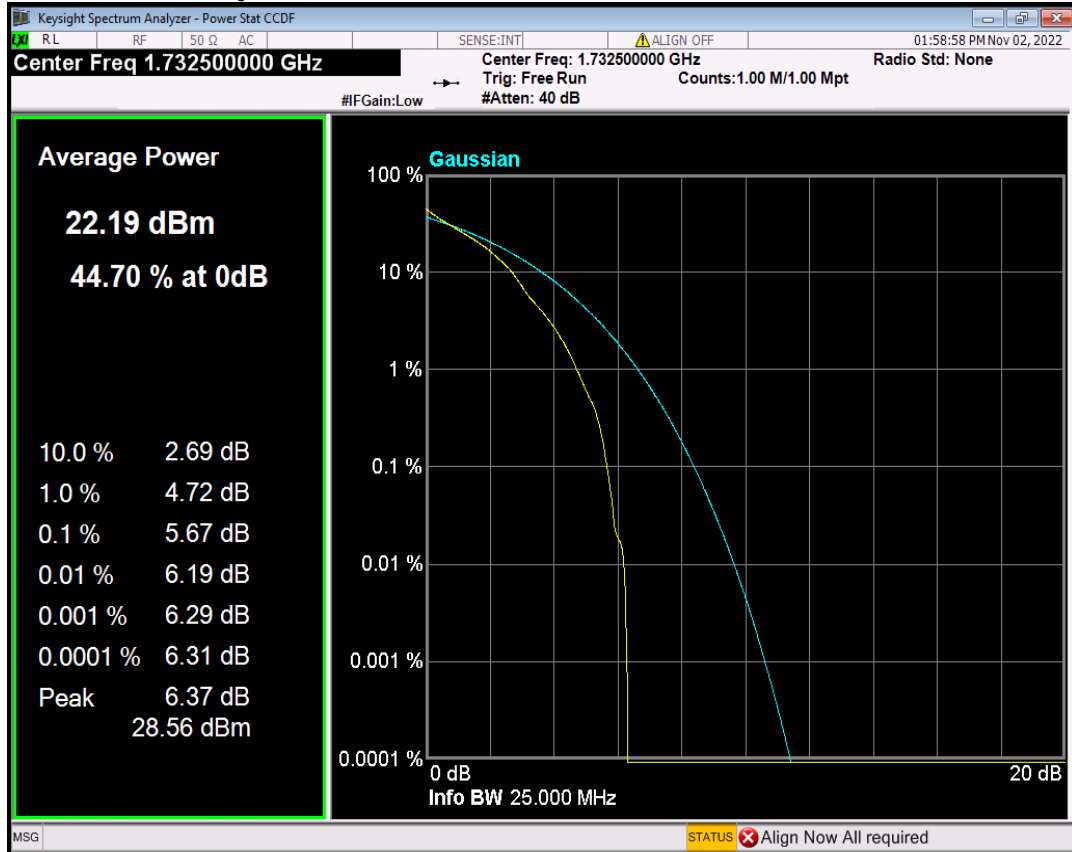
Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0



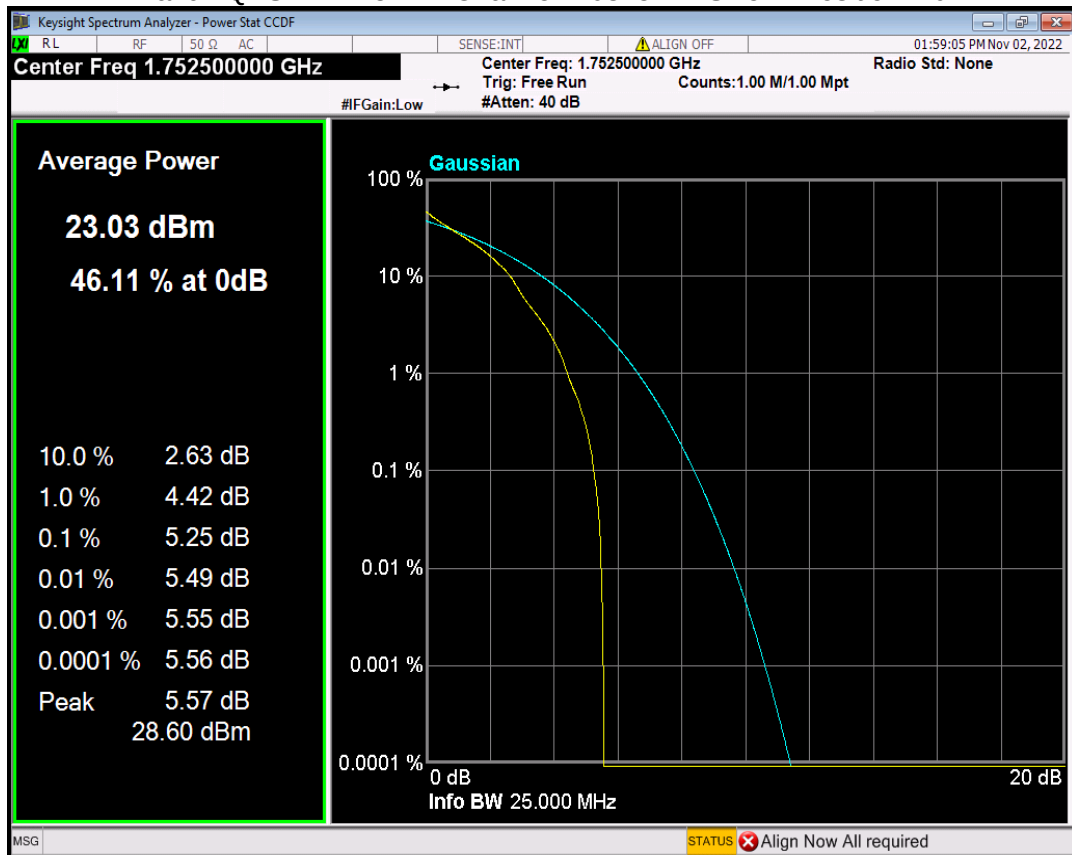
Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0



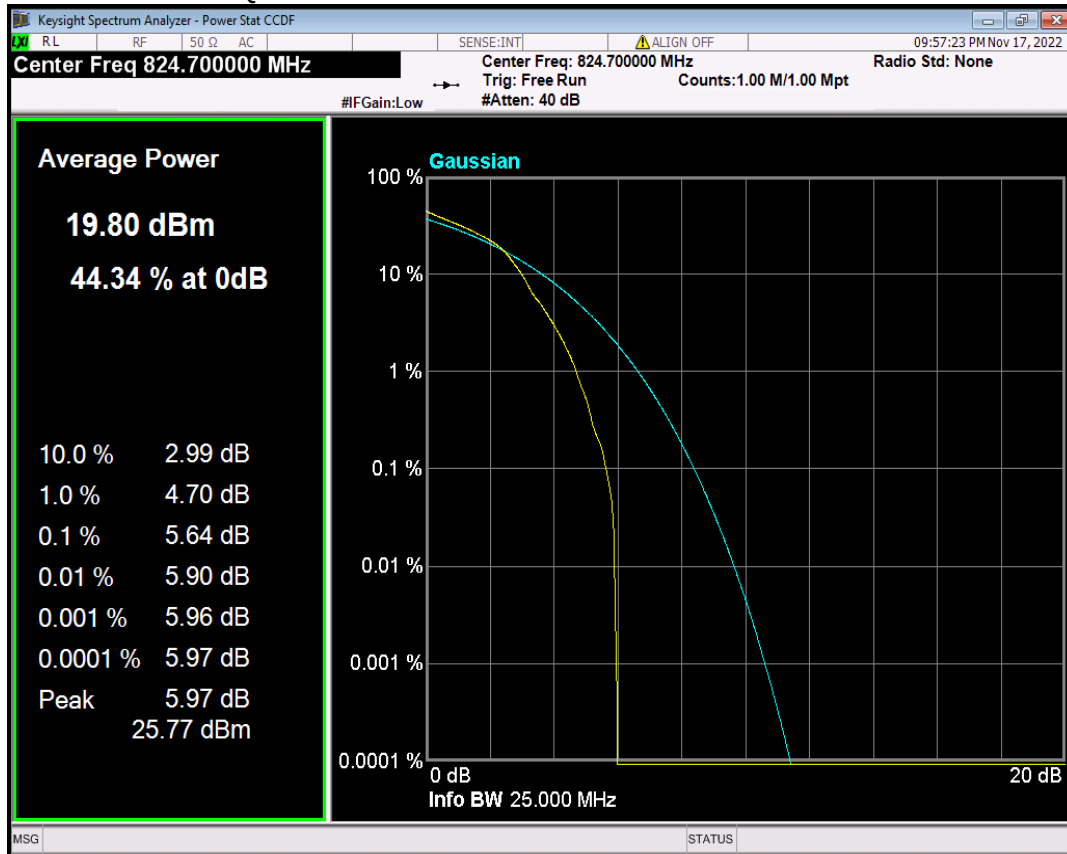
Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



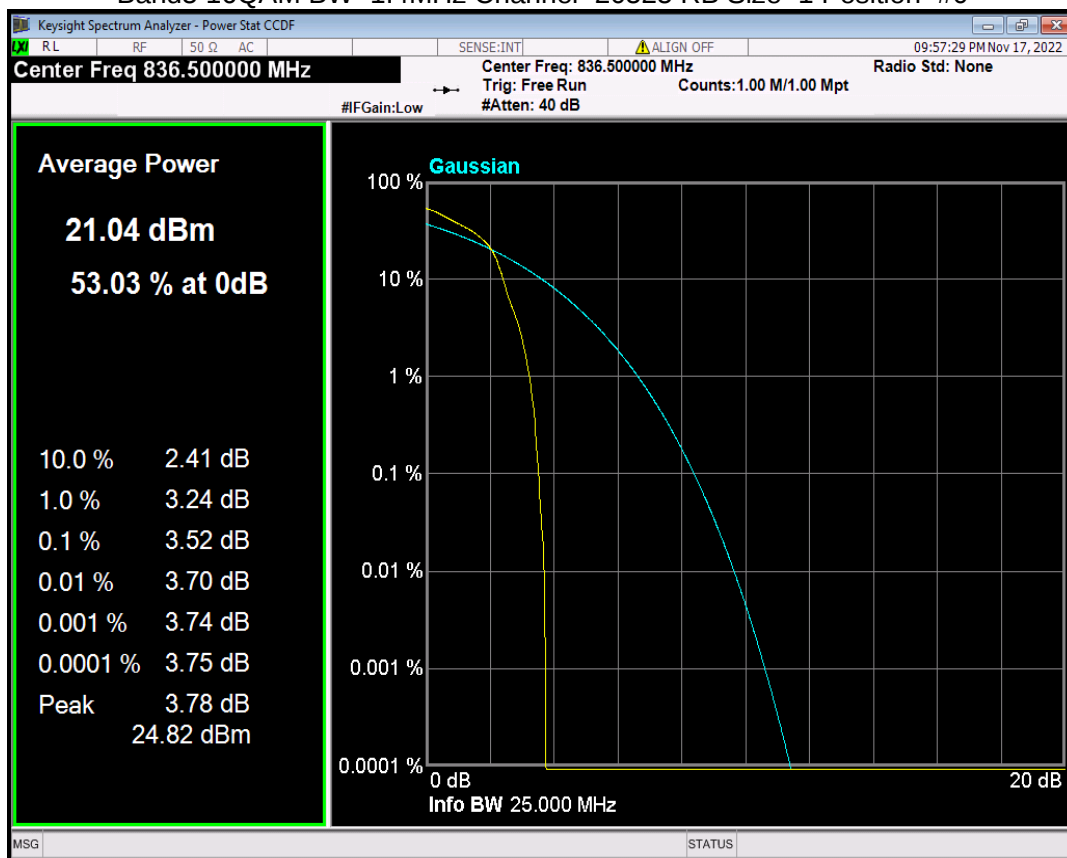
Band4 QPSK BW=5MHz Channel=20375 RB Size=1 Position=#0



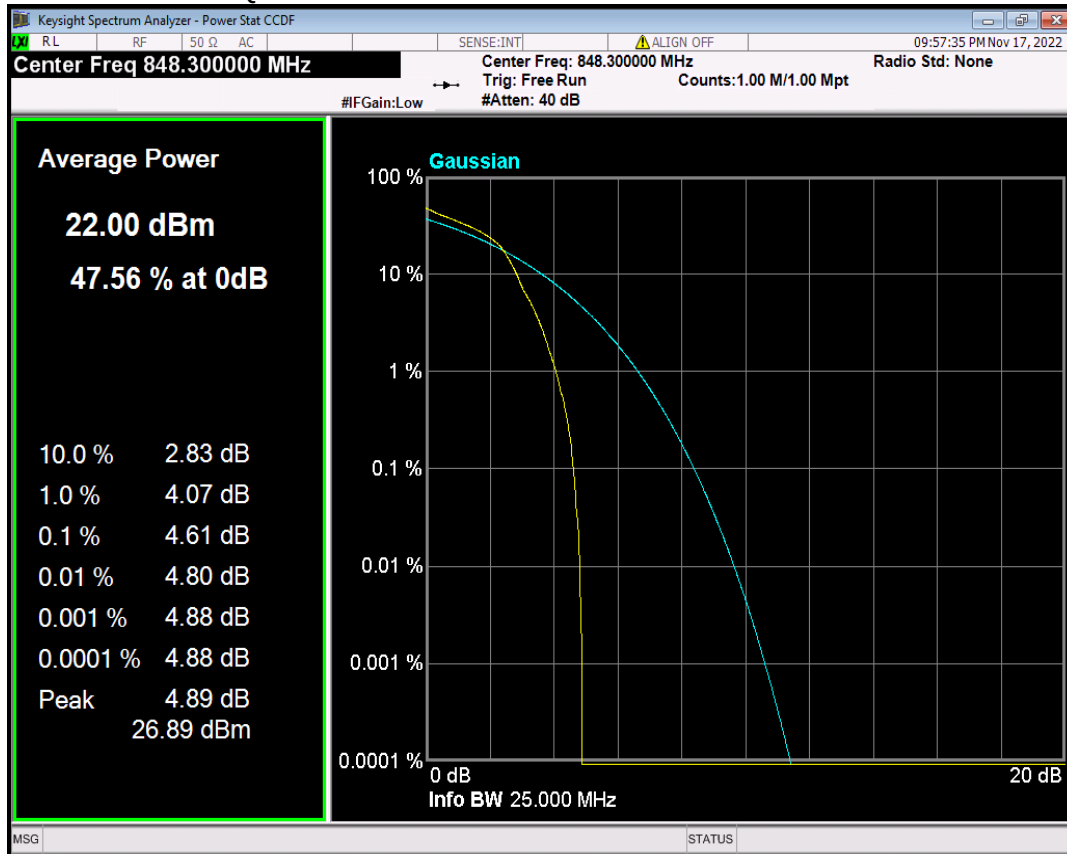
Band5 16QAM BW=1.4MHz Channel=20407 RB Size=1 Position=#0



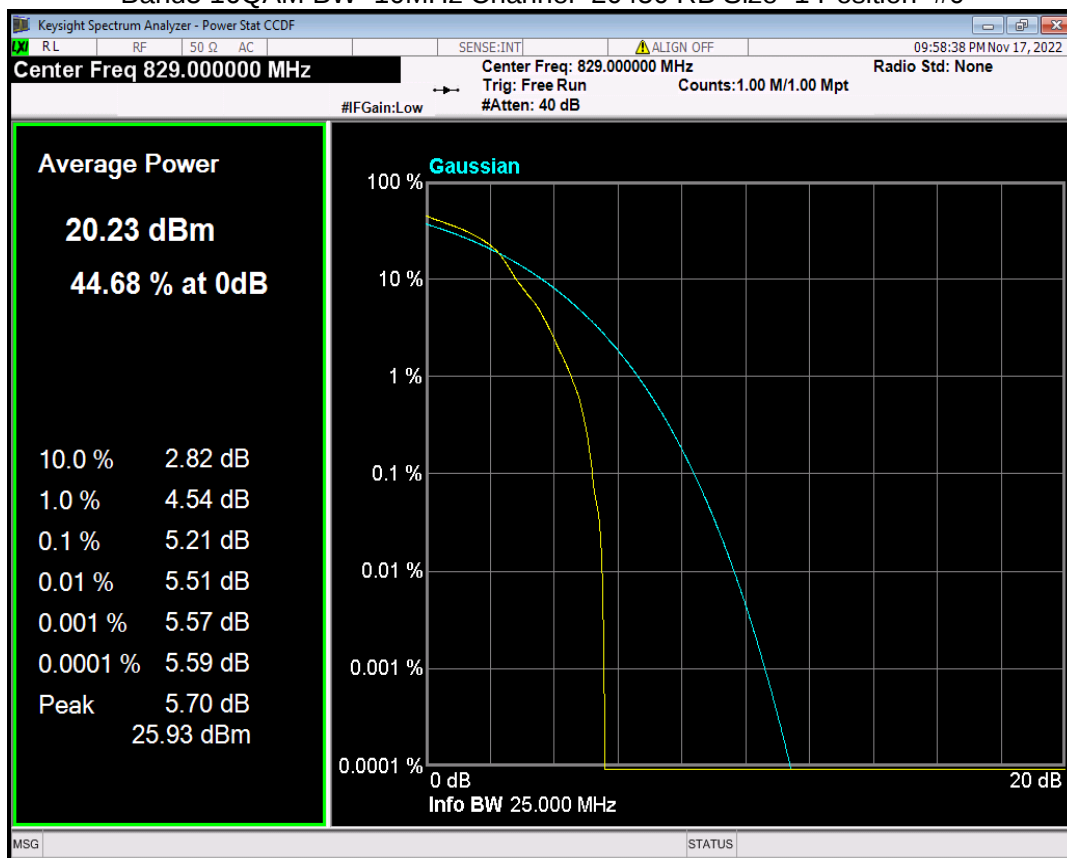
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0



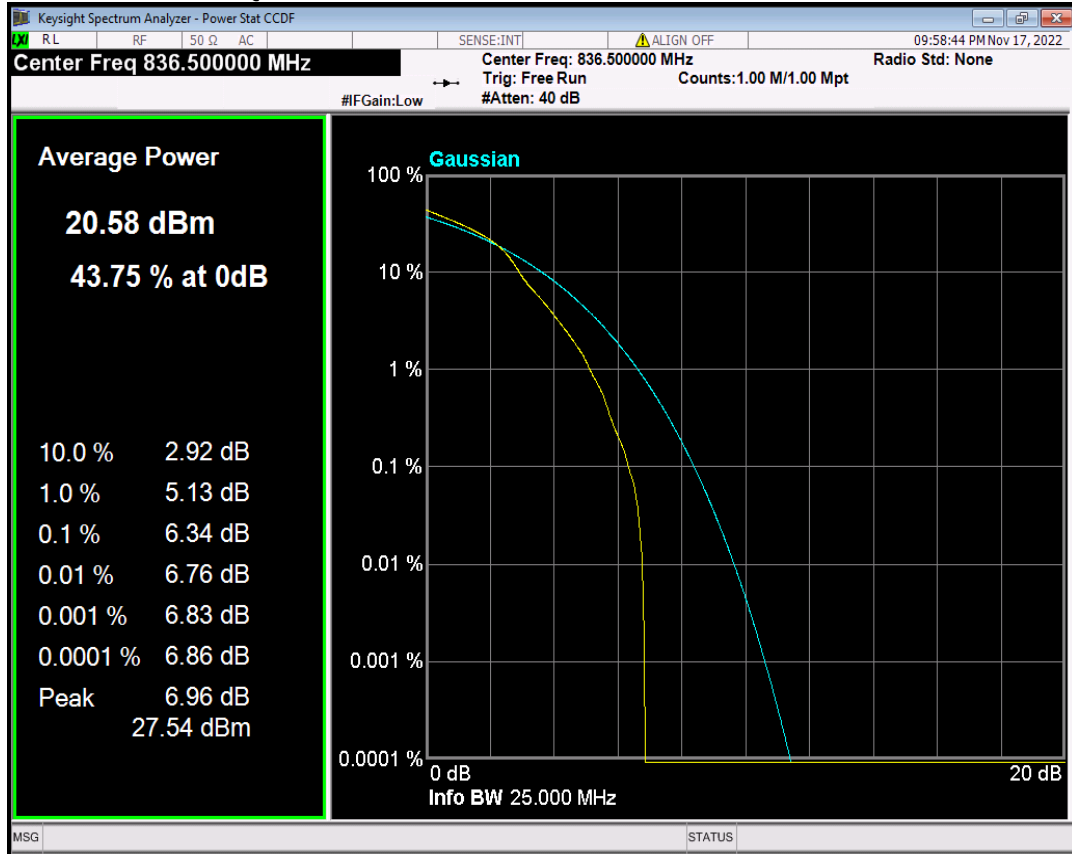
Band5 16QAM BW=1.4MHz Channel=20643 RB Size=1 Position=#0



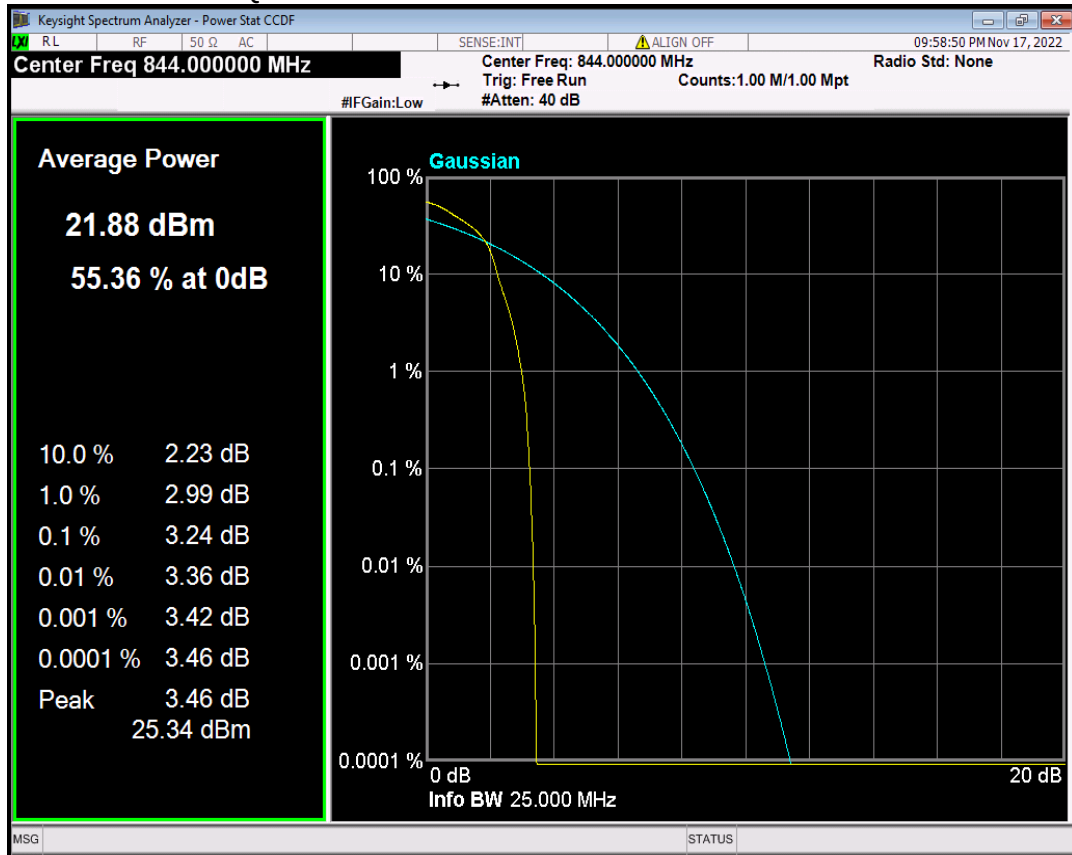
Band5 16QAM BW=10MHz Channel=20450 RB Size=1 Position=#0



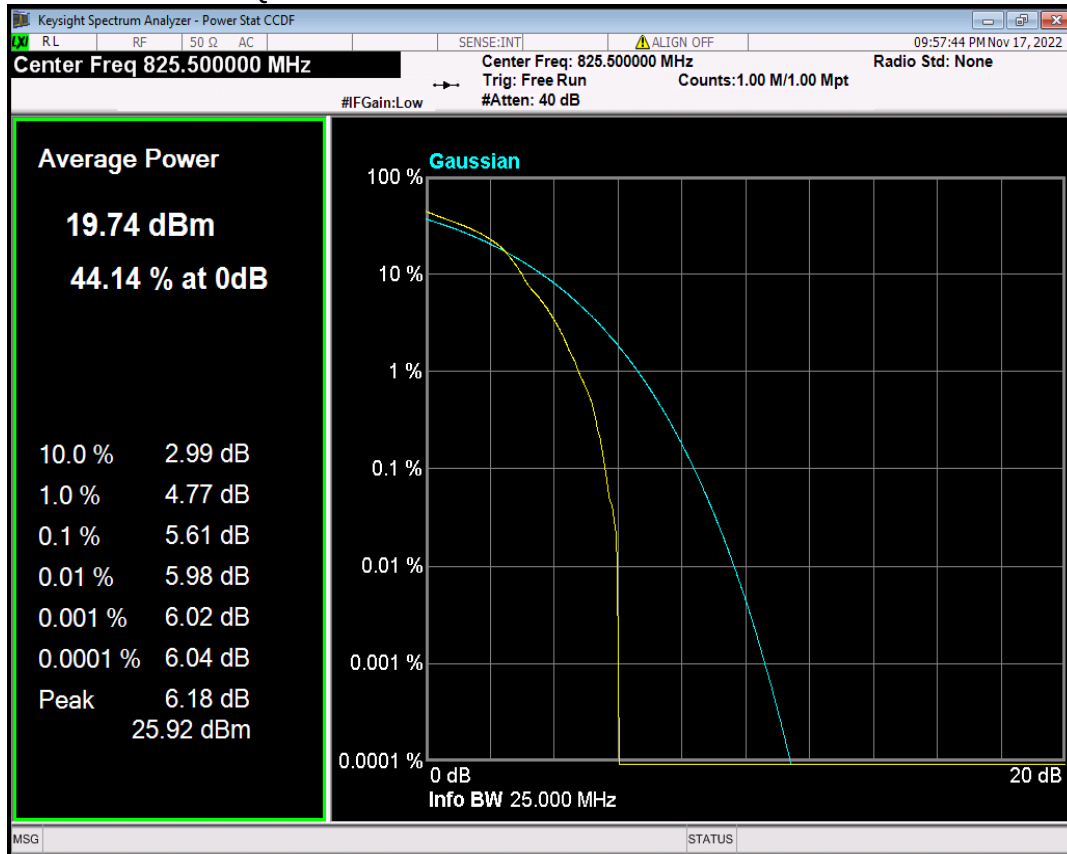
Band5 16QAM BW=10MHz Channel=20525 RB Size=1 Position=#0



Band5 16QAM BW=10MHz Channel=20600 RB Size=1 Position=#0



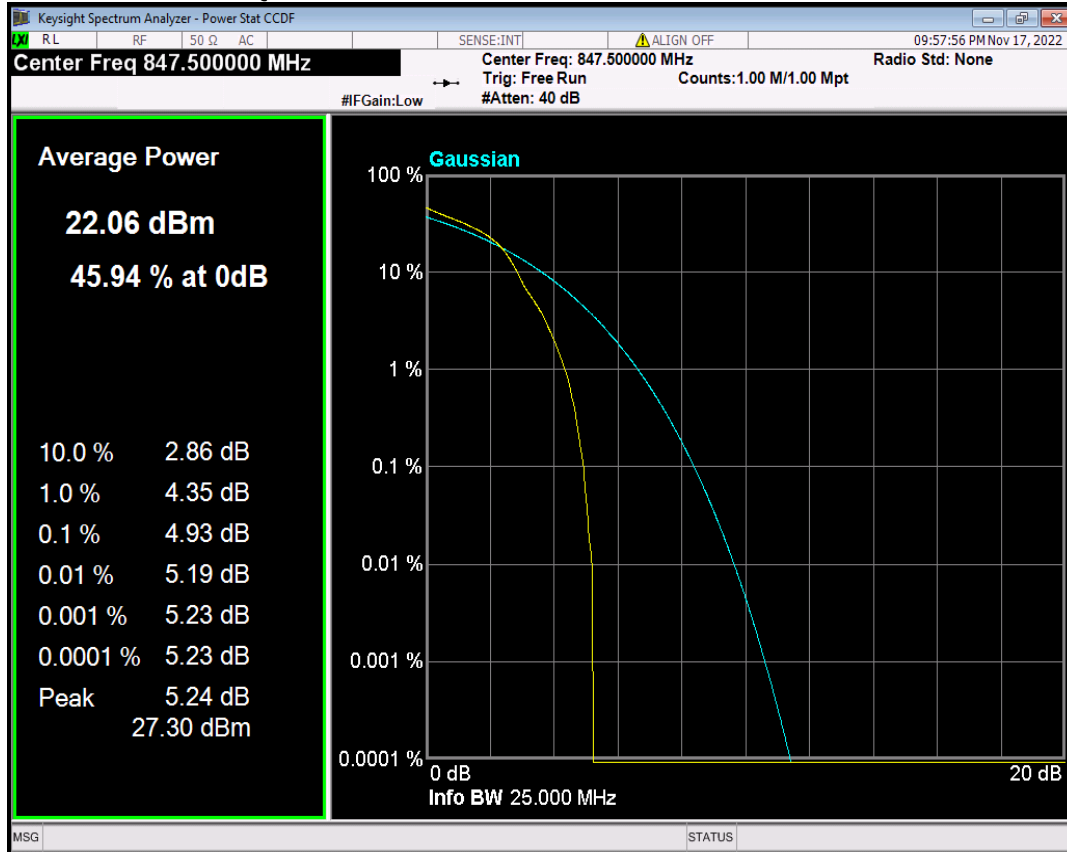
Band5 16QAM BW=3MHz Channel=20415 RB Size=1 Position=#0



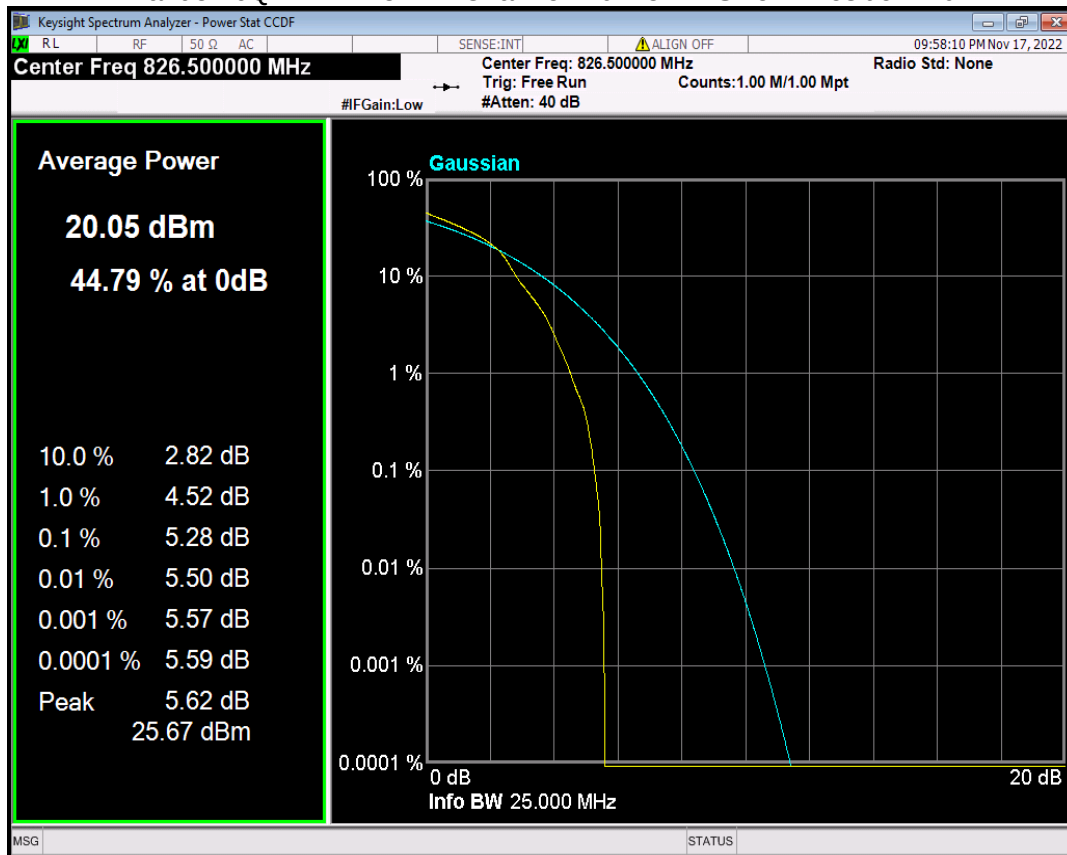
Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0



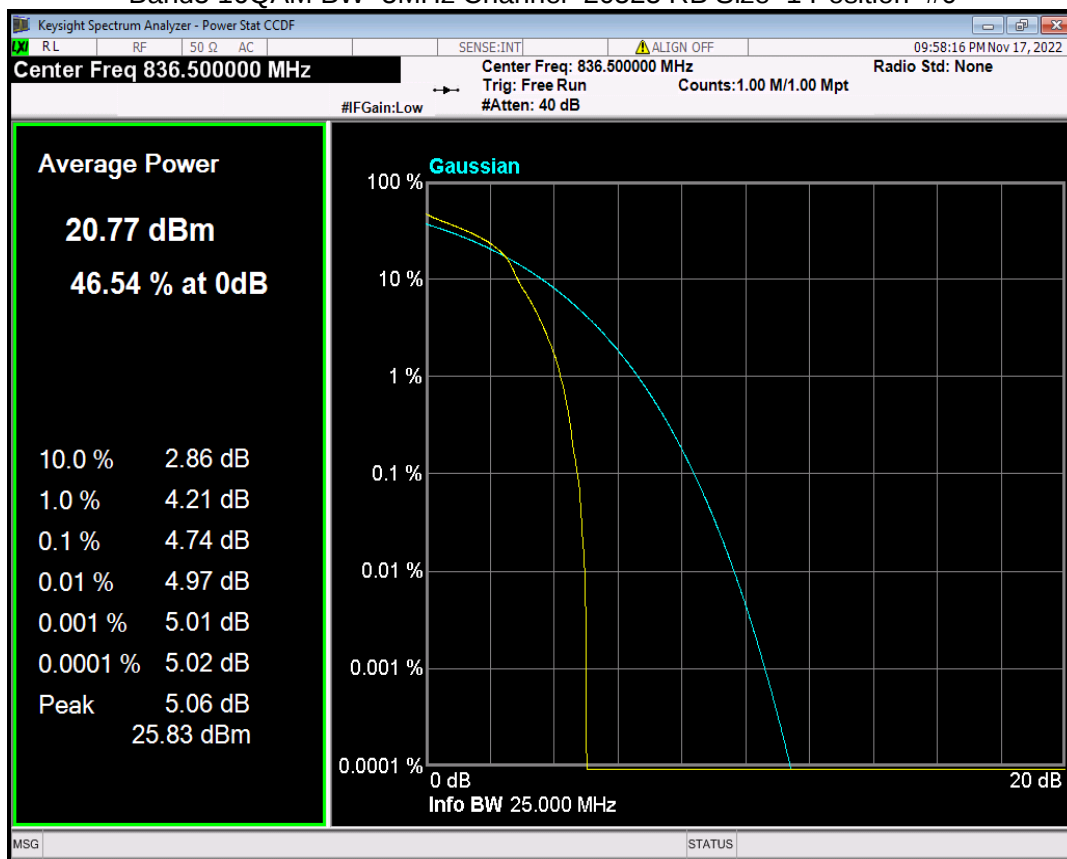
Band5 16QAM BW=3MHz Channel=20635 RB Size=1 Position=#0



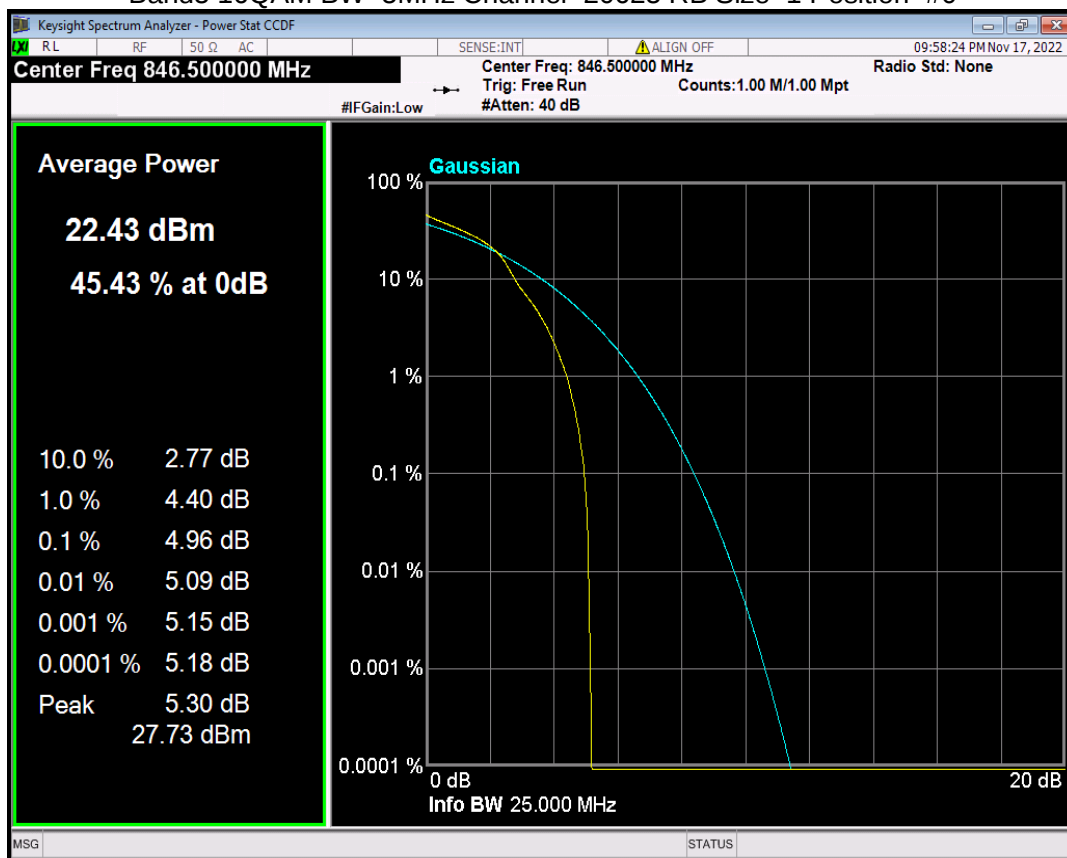
Band5 16QAM BW=5MHz Channel=20425 RB Size=1 Position=#0



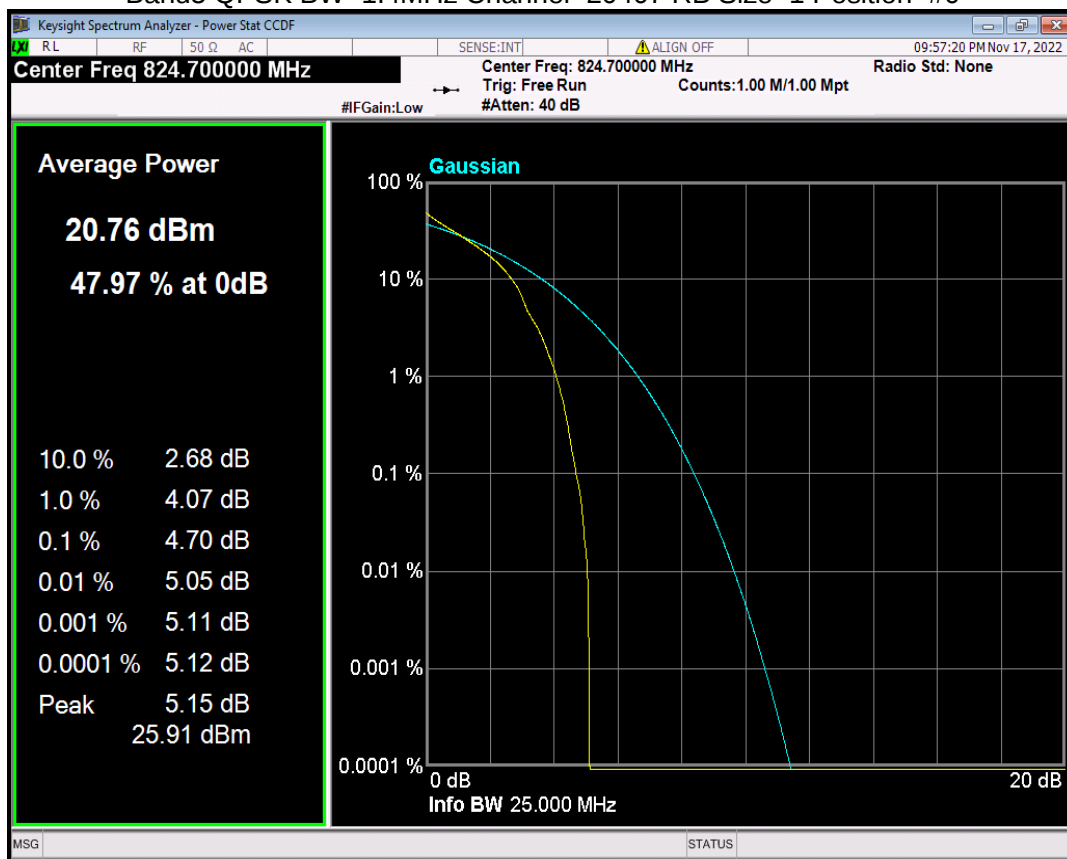
Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0



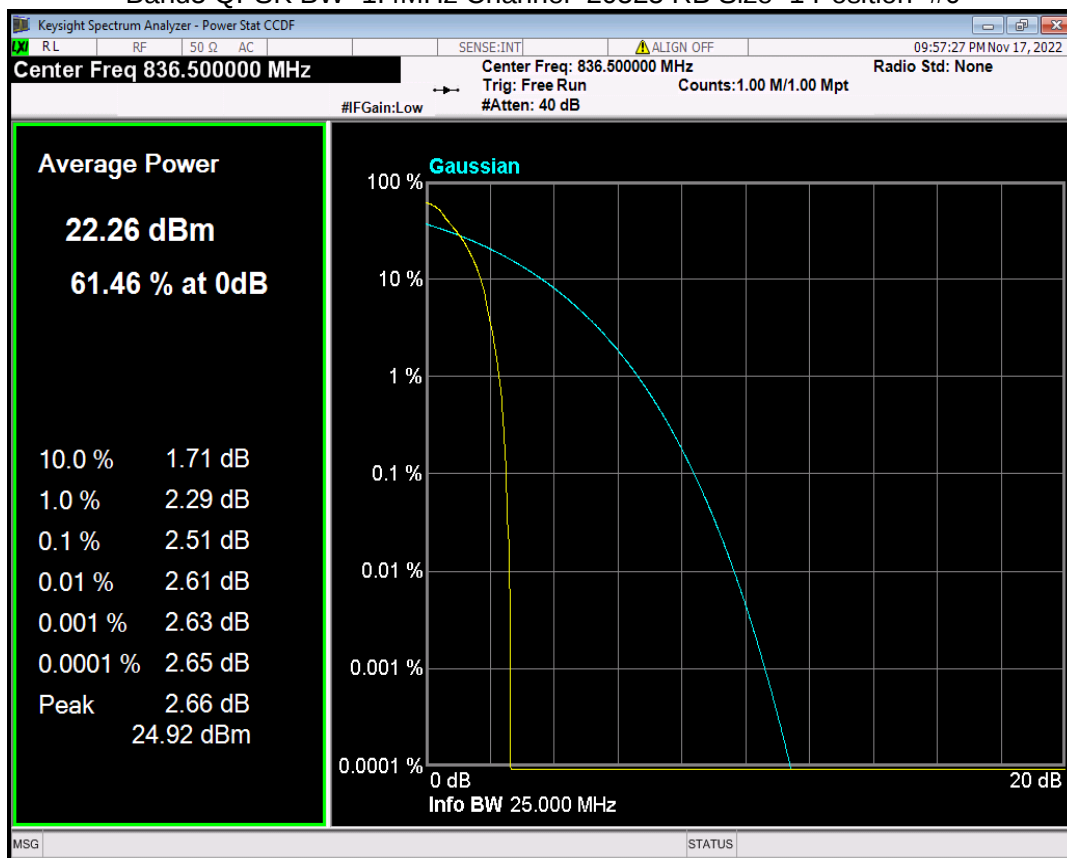
Band5 16QAM BW=5MHz Channel=20625 RB Size=1 Position=#0



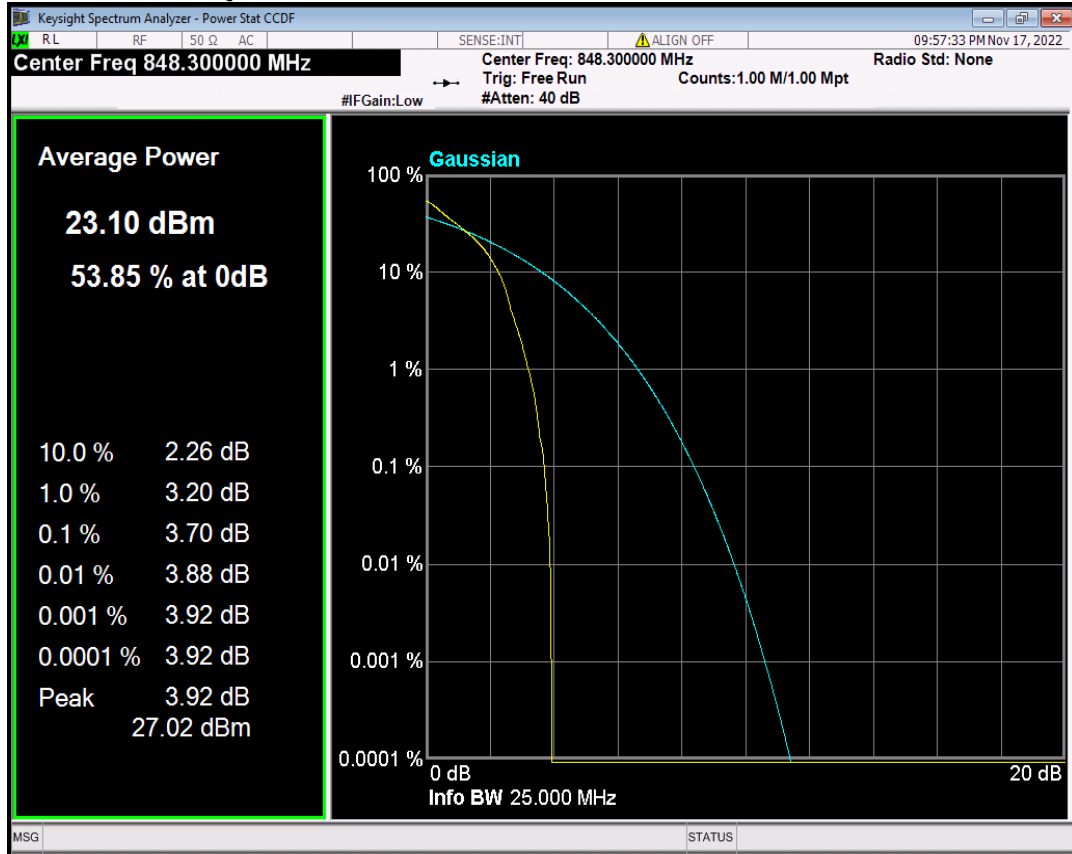
Band5 QPSK BW=1.4MHz Channel=20407 RB Size=1 Position=#0



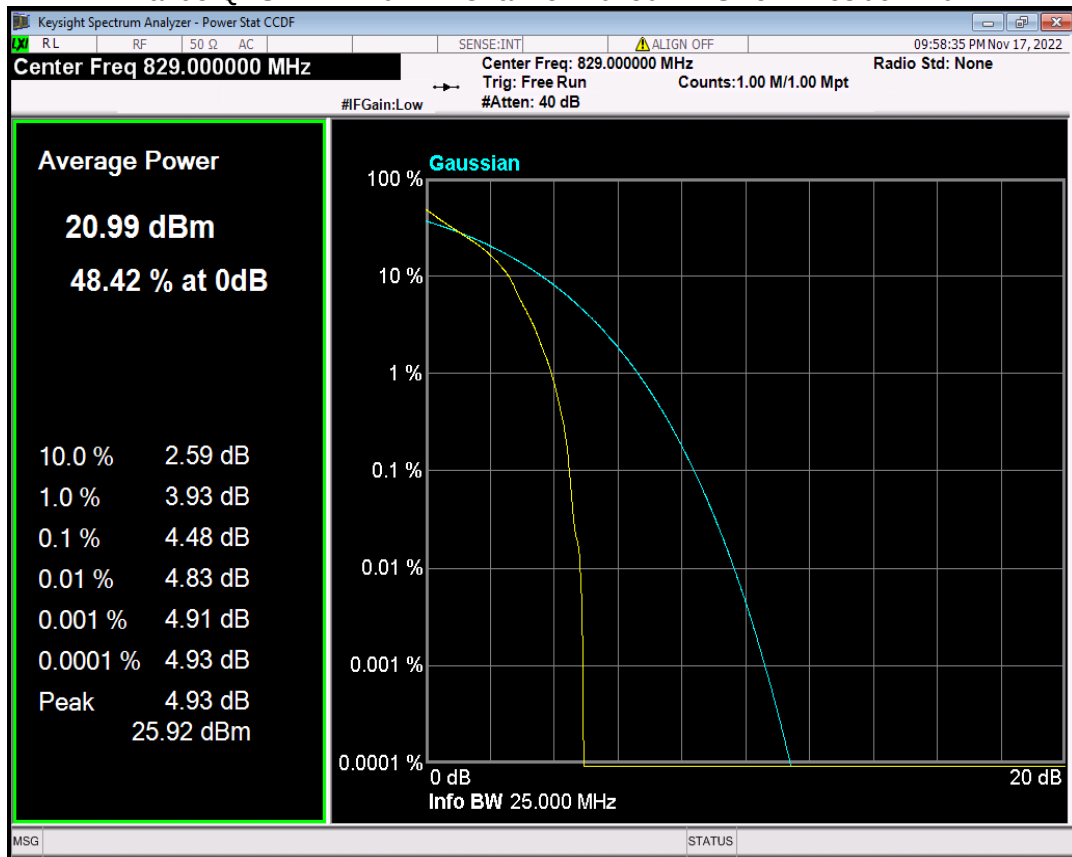
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0



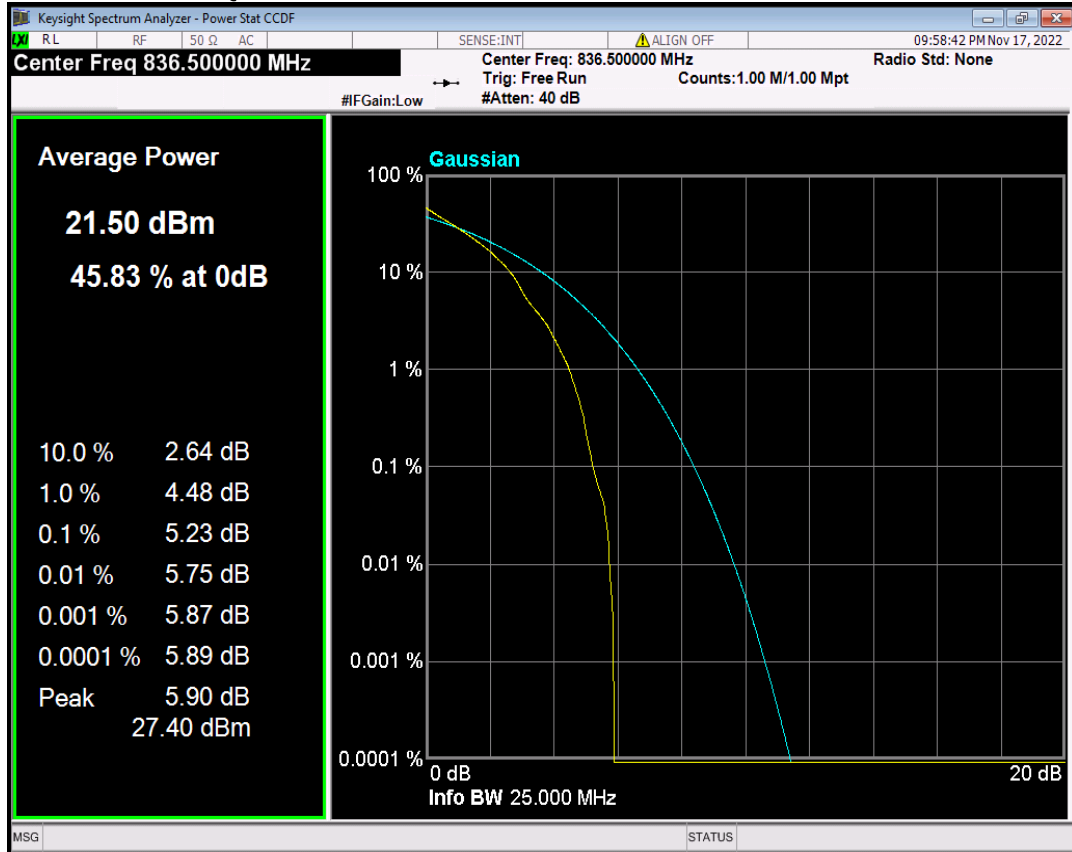
Band5 QPSK BW=1.4MHz Channel=20643 RB Size=1 Position=#0



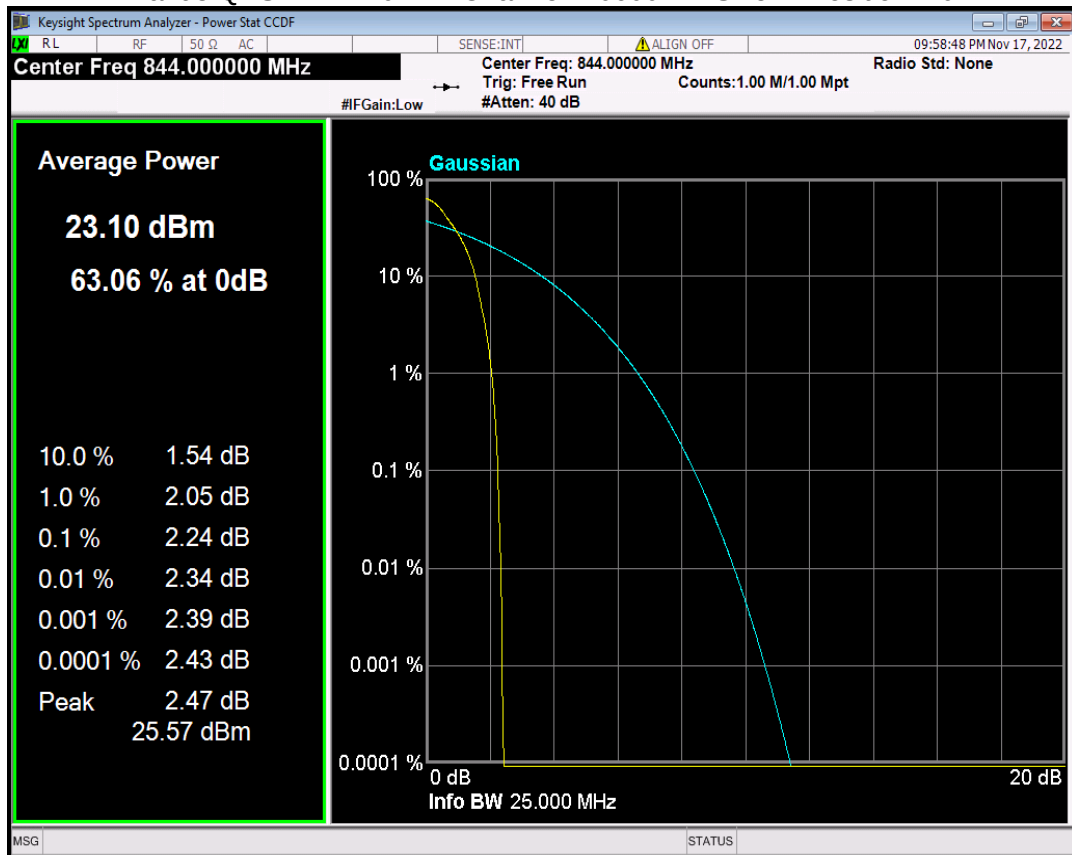
Band5 QPSK BW=10MHz Channel=20450 RB Size=1 Position=#0



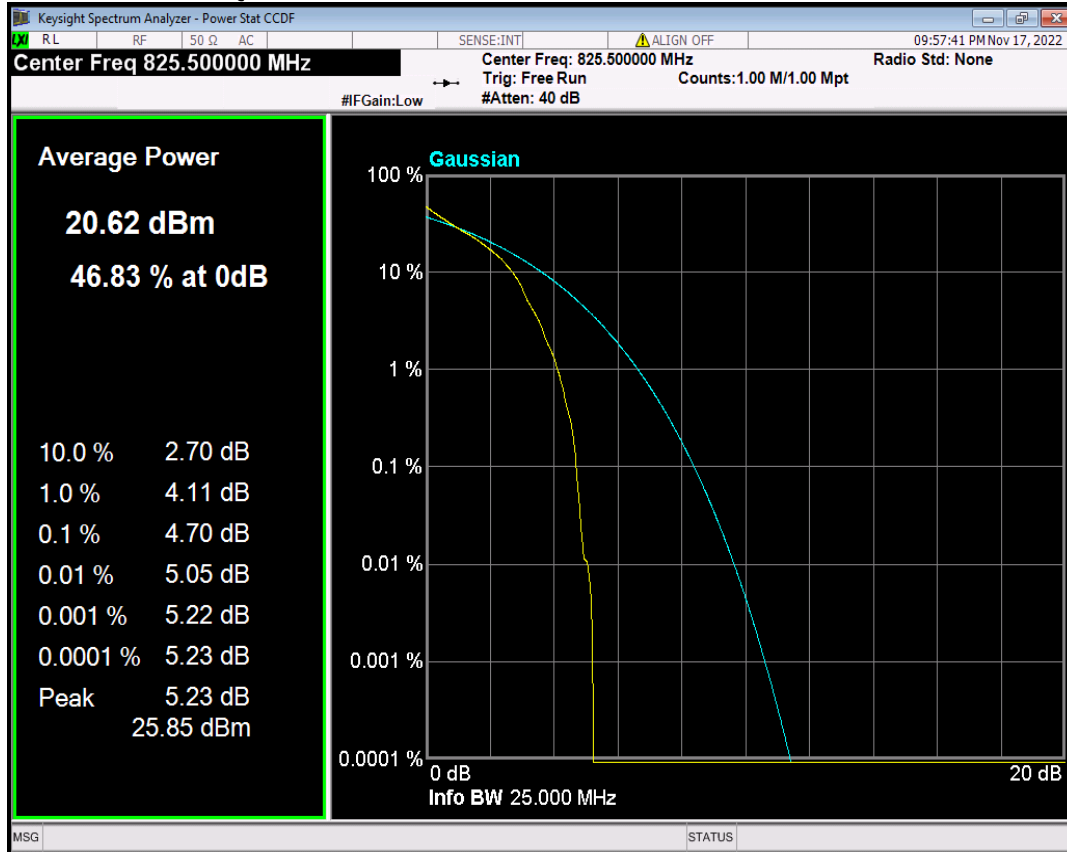
Band5 QPSK BW=10MHz Channel=20525 RB Size=1 Position=#0



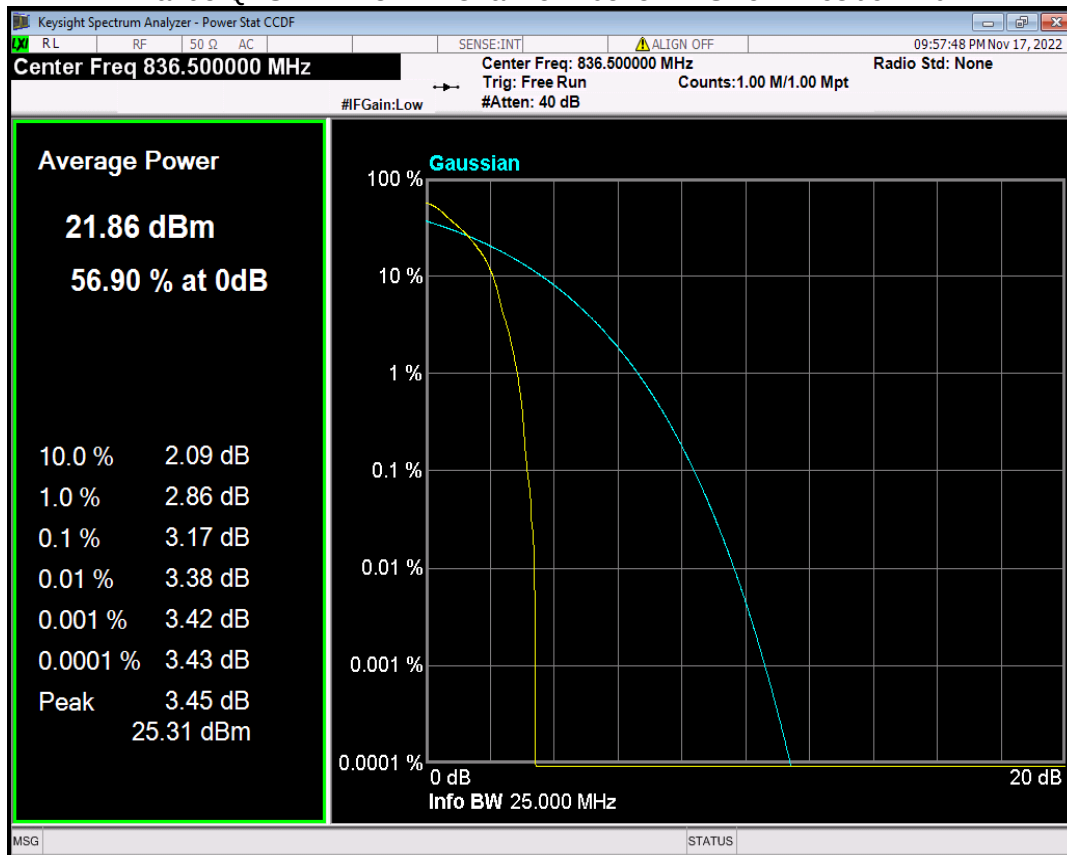
Band5 QPSK BW=10MHz Channel=20600 RB Size=1 Position=#0



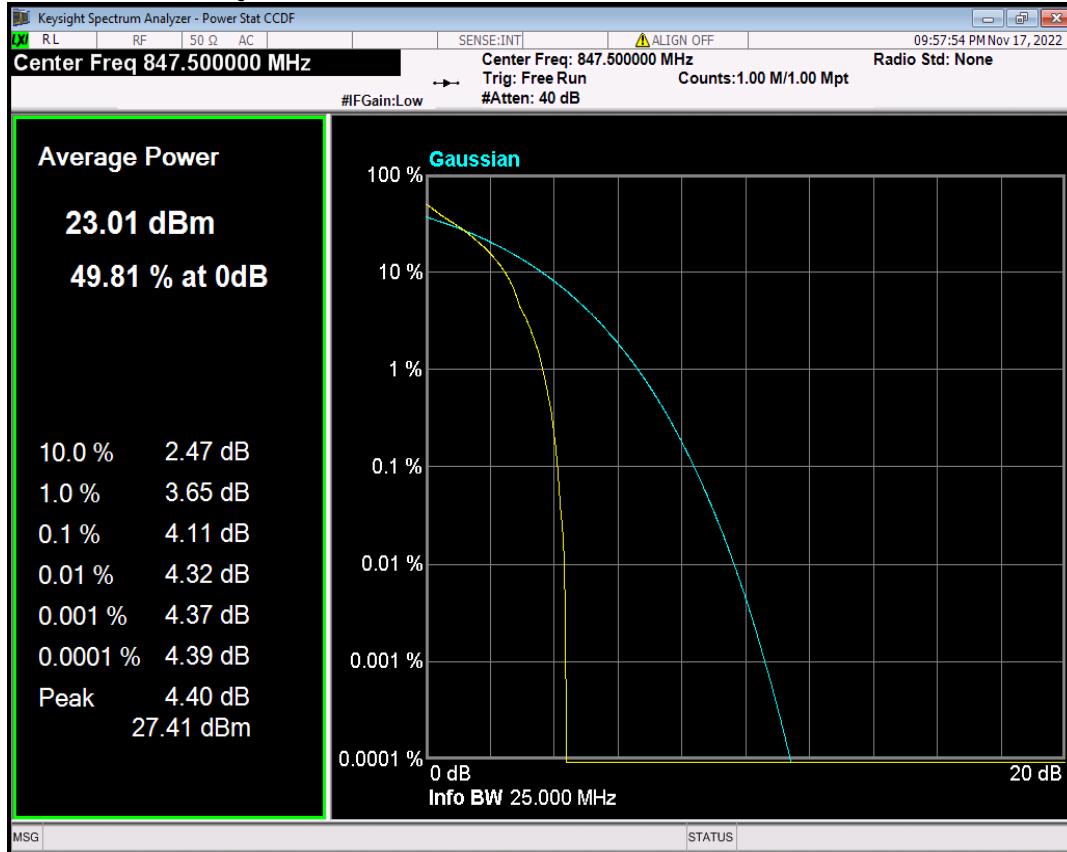
Band5 QPSK BW=3MHz Channel=20415 RB Size=1 Position=#0



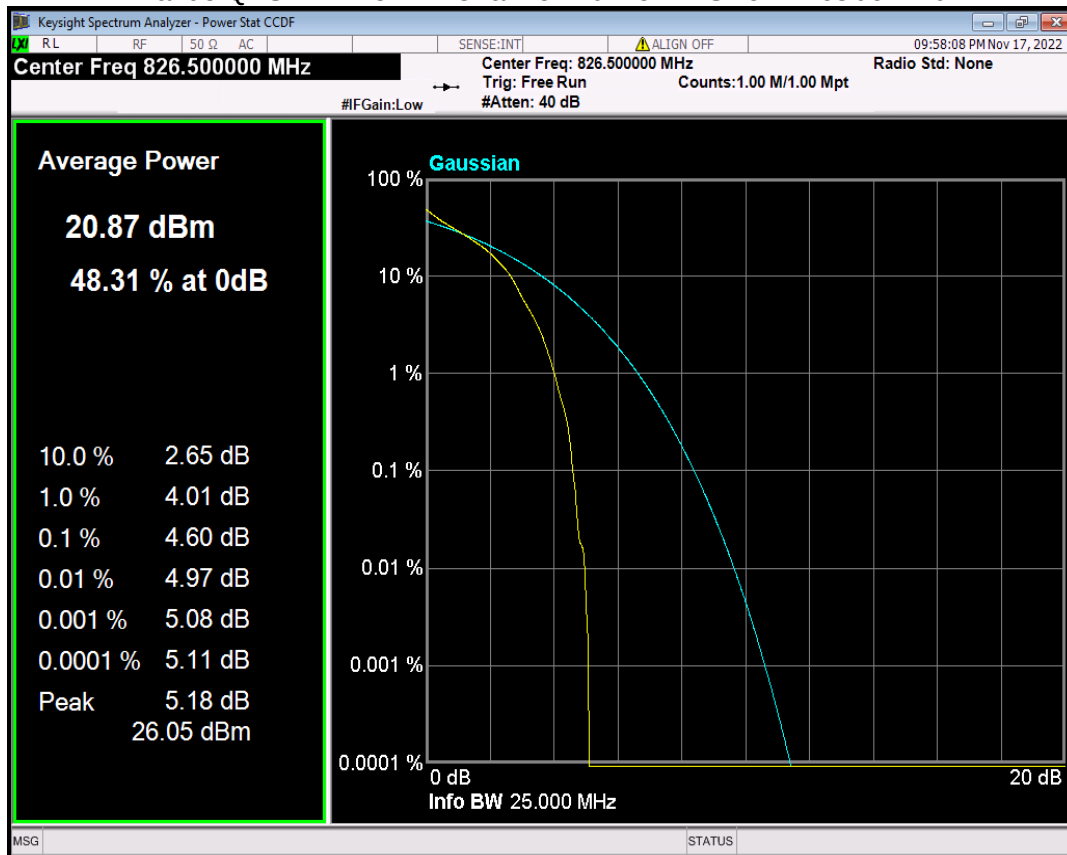
Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0



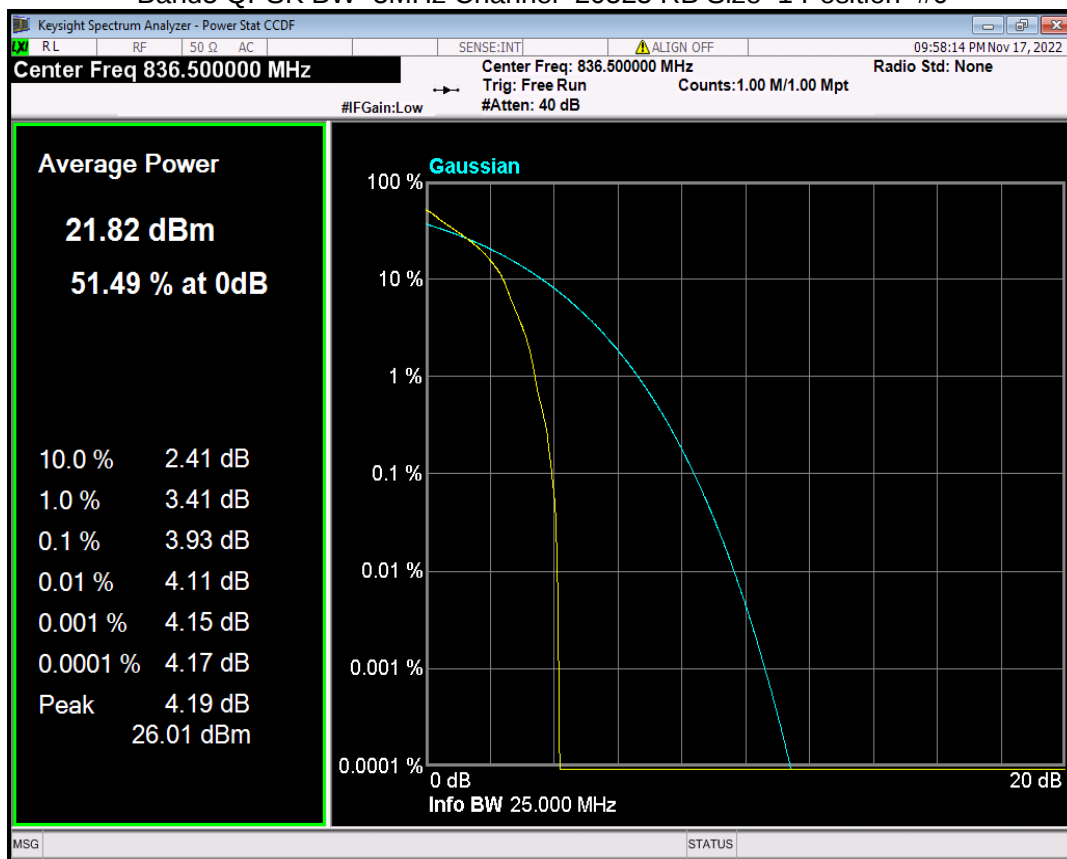
Band5 QPSK BW=3MHz Channel=20635 RB Size=1 Position=#0



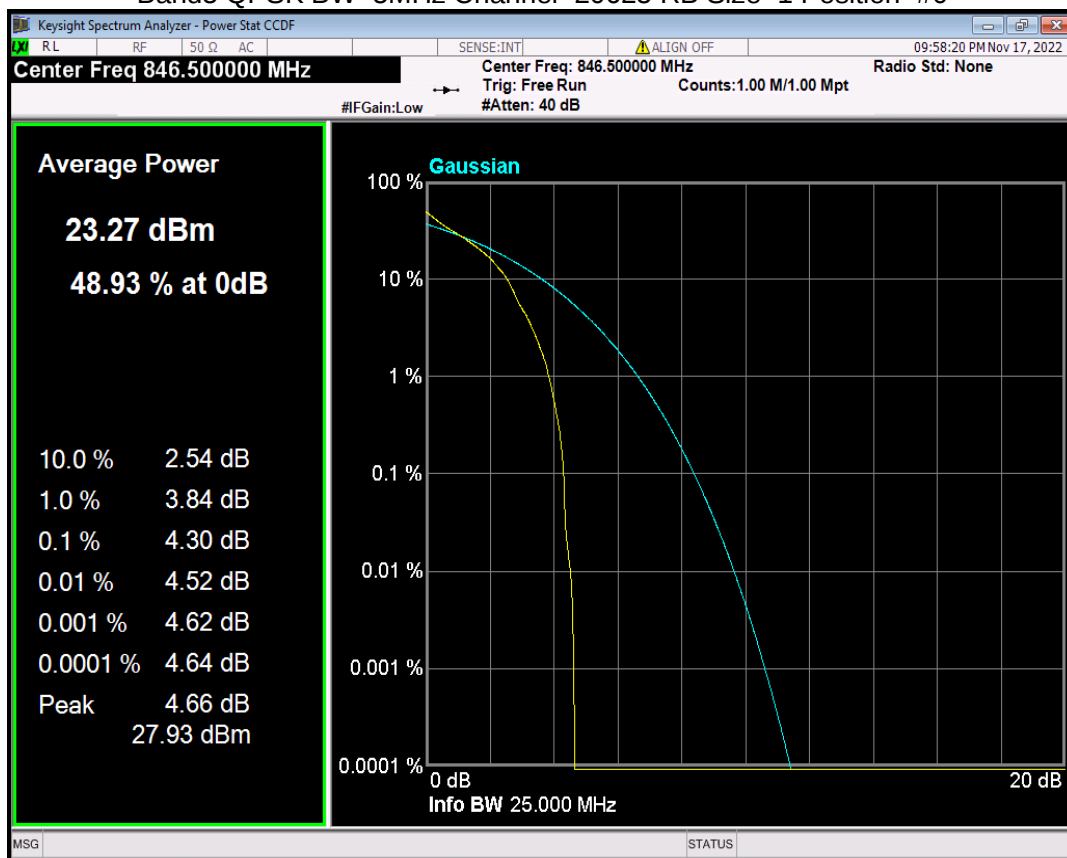
Band5 QPSK BW=5MHz Channel=20425 RB Size=1 Position=#0



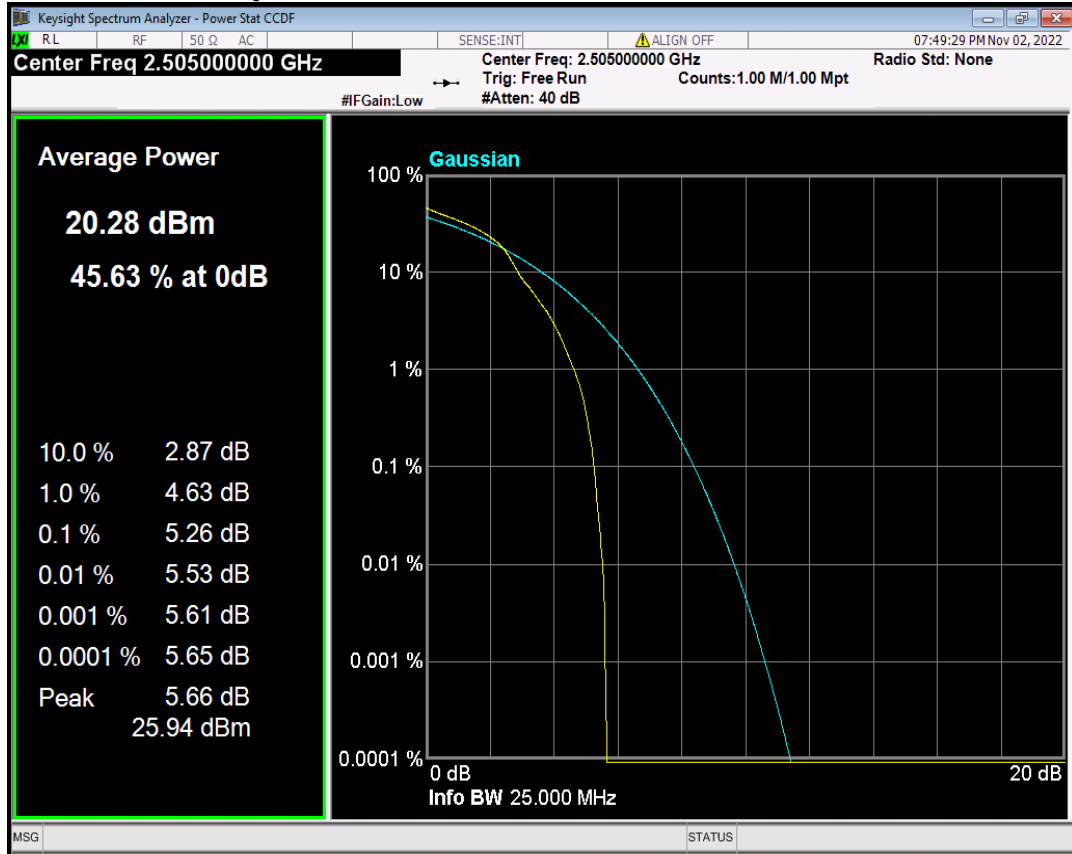
Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0



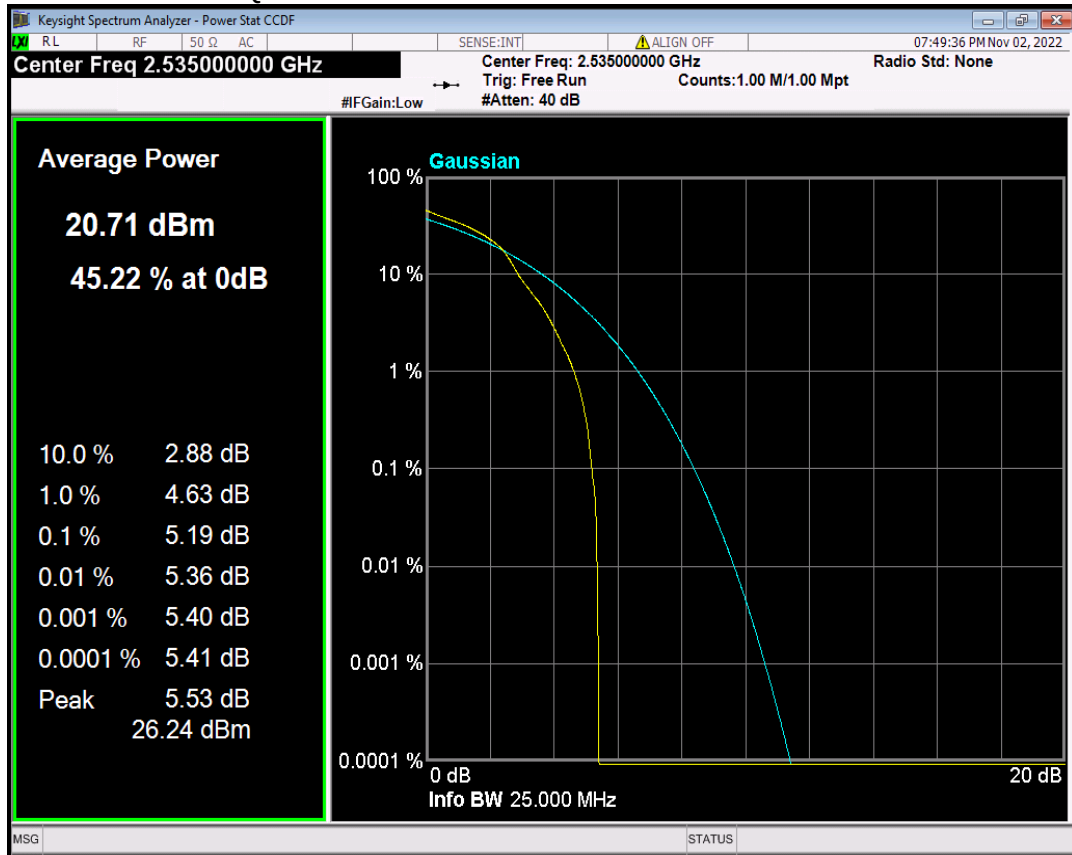
Band5 QPSK BW=5MHz Channel=20625 RB Size=1 Position=#0



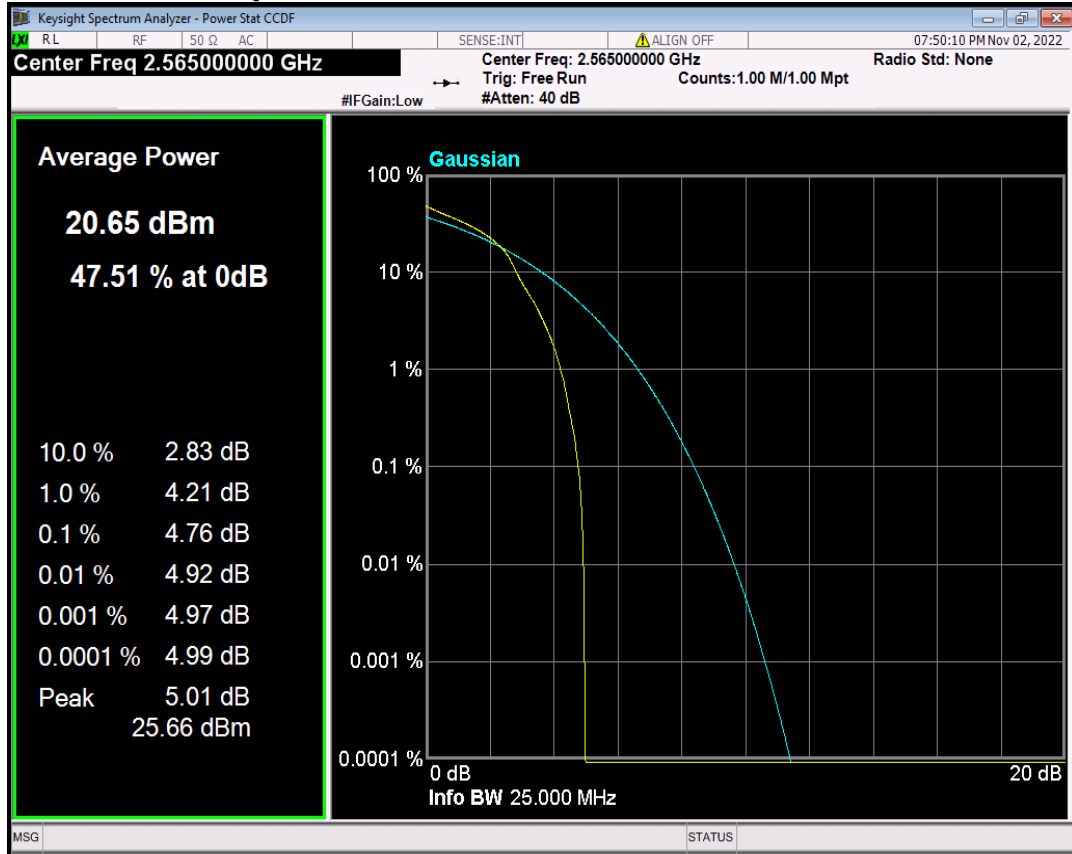
Band7 16QAM BW=10MHz Channel=20800 RB Size=1 Position=#0



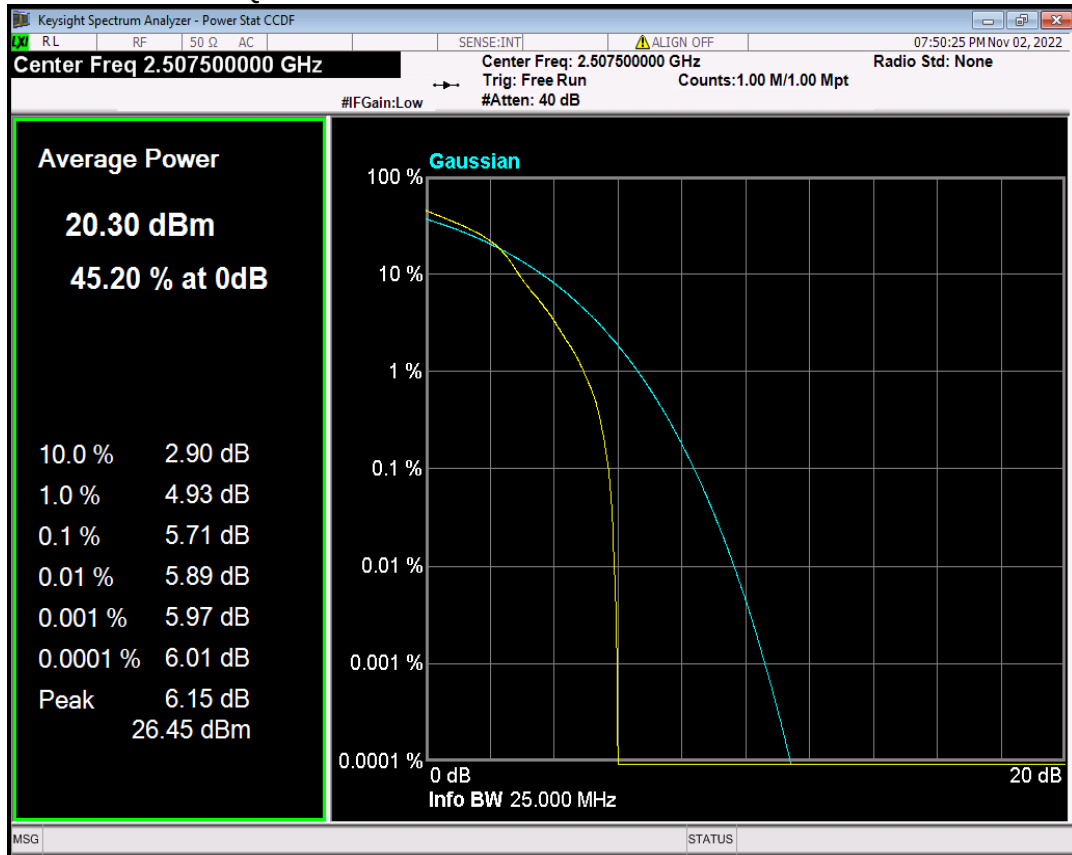
Band7 16QAM BW=10MHz Channel=21100 RB Size=1 Position=#0



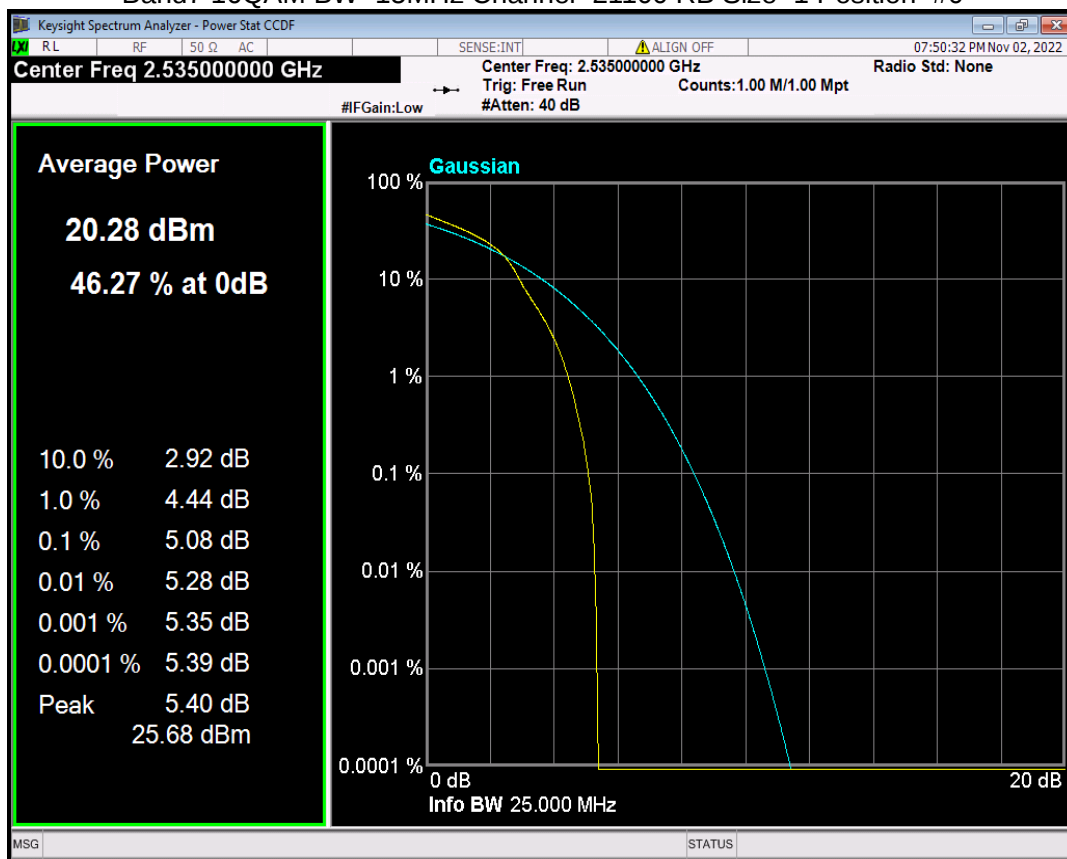
Band7 16QAM BW=10MHz Channel=21400 RB Size=1 Position=#0



Band7 16QAM BW=15MHz Channel=20825 RB Size=1 Position=#0



Band7 16QAM BW=15MHz Channel=21100 RB Size=1 Position=#0



Band7 16QAM BW=15MHz Channel=21375 RB Size=1 Position=#0

