FCC TEST REPORT

(PART 22)

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	401 and 402,Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Product:	Smart Mobile Payment Terminal
Brand Name:	PAX
Model Name:	A960
FCC ID:	V5PA960
Date of tests:	Nov. 30, 2022 ~ Dec. 12, 2022

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Simon Wang Date: Dec. 12, 2022	Luke Lu Date: Dec. 12, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22110037RF04	Original release	Dec. 12, 2022

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

1.1 MEASUREMENT UNCERTAINTY

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

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

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

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 21,22	Feb. 20,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.04,22	Sep.03,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 23
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 15,22	Feb. 14,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 07,22	May. 06,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 07,22	May. 06,23

Temperature Chamber	ESPEC	SH-242	93000855	May. 12,22	May. 11,23
MXG Analog Microvave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 18,22	Feb. 17,23
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.12,22	May.11,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.

3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Mobile Payment Terminal	
BRAND NAME	PAX	
MODEL NAME	A960	
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)	
MODULATION TYPE	**WCDMA**	BPSK, QPSK
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	**WCDMA**	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
MAX. ERP POWER	**WCDMA**	229.09mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	236.05mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	233.88mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	236.59mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	237.14mW
EMISSION DESIGNATORGOGN	**WCDMA**	4M15F9W
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
		16QAM: 1M09W7D
		64QAM: 1M09W7D

EMISSION DESIGNATORGOGN	**LTE Band 5 (Channel Bandwidth: 3MHz)**	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
	LTE Band 5 (Channel Bandwidth: 5MHz)	QPSK: 4M50G7D
		16QAM: 4M50W7D
		64QAM: 4M49W7D
	LTE Band 5 (Channel Bandwidth: 10MHz)	QPSK: 8M97G7D
		16QAM: 8M97W7D
		64QAM: 8M98W7D
ANTENNA TYPE	Monopole Antenna with 2.86dBi gain for WCDMA V/LTE B5	
HW VERSION	A960	
SW VERSION	N/A	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE	0-45 ℃	
EXTREME VOLTAGE	3.5V - 4.2V	

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.

MODULATION MODE	TX FUNCTION
WCDMA	1TX/1RX
LTE	1TX/1RX

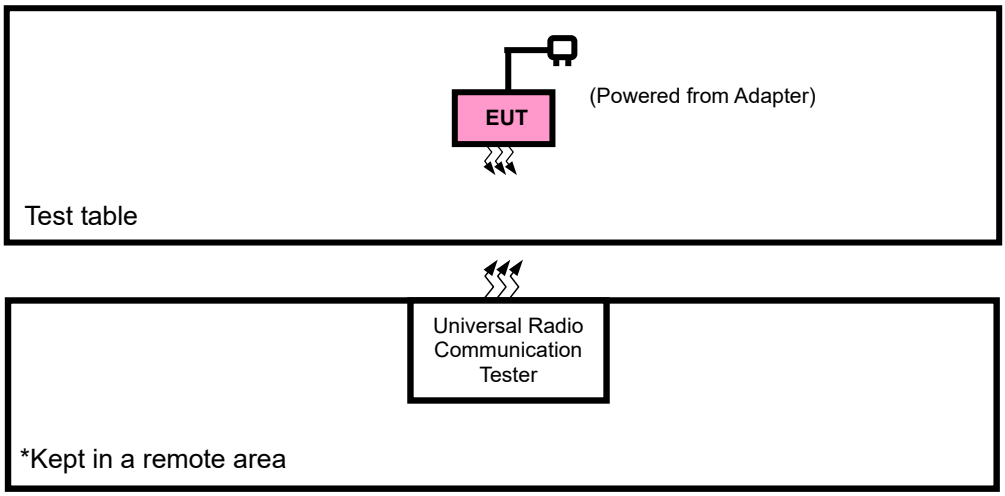
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	VEKEN	N/A	YW-029	Capacity：3.7Vdc, 5150mAh
AC Adapter	PAX	Shenzhen Sorghum red Electronics Technology Co.,Ltd	GLH50D2000HW	I/P: 100-240Vac, 0.4A, O/P: 5.0Vdc, 2A
USB Cable	N/A	N/A	N/A	Signal Line,1.0meter

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	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 ERP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

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

WCDMA MODE

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

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	50 RB / 0 RB Offset
A	BAND EDGE	20407 to 20643	20407	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		20407 to 20643	20643	1.4 MHz	QPSK,16QAM,64QAM	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		20415 to 20635	20415	3 MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		20415 to 20635	20635	3 MHz	QPSK,16QAM,64QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		20425 to 20625	20425	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		20425 to 20625	20625	5MHz	QPSK,16QAM,64QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		20450 to 20600	20450	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
		20450 to 20600	20600	10MHz	QPSK,16QAM,64QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset

A	CONDCUDETED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB / 0 RB Offset
		20425 to 20625	20525	5MHz	QPSK	1 RB / 0 RB Offset
		20450 to 20600	20525	10MHz	QPSK	1 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 56%RH	DC 5V By Adapter	Jace Hu
FREQUENCY STABILITY	23deg. C, 56%RH	DC 3.7V By Battery	James Fu
OCCUPIED BANDWIDTH	23deg. C, 56%RH	DC5V By Adapter	James Fu
BAND EDGE	23deg. C, 56%RH	DC 5V By Adapter	James Fu
CONDCUDETED EMISSION	23deg. C, 56%RH	DC5V By Adapter	James Fu
RADIATED EMISSION	23deg. C, 56%RH	DC5V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	23deg. C, 56%RH	DC5V By Adapter	James Fu

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:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

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

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

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

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

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

ERP or EIRP = $P_{Meas} + G_T – L_C$

Where:

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

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

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

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

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

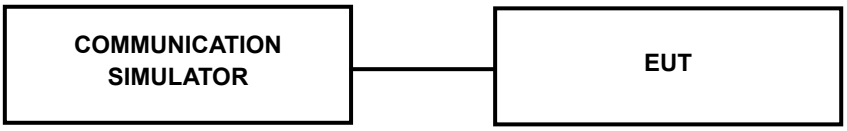
CONDUCTED POWER MEASUREMENT:

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

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency	826.4	836.4	846.6
RMC 12.2K	22.61	22.74	**22.89**
HSDPA Subtest-1	21.60	21.68	21.87
HSDPA Subtest-2	21.56	21.67	21.84
HSDPA Subtest-3	21.04	21.09	21.32
HSDPA Subtest-4	21.05	21.10	21.36
DC-HSDPA Subtest-1	21.56	21.63	21.82
DC-HSDPA Subtest-2	21.48	21.66	21.79
DC-HSDPA Subtest-3	21.00	21.04	21.31
DC-HSDPA Subtest-4	20.99	21.08	21.31
HSUPA Subtest-1	21.54	21.69	21.87
HSUPA Subtest-2	19.60	19.72	19.81
HSUPA Subtest-3	20.53	20.64	20.75
HSUPA Subtest-4	19.57	19.66	19.79
HSUPA Subtest-5	21.52	21.62	21.82

LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
5/ 1.4	QPSK	1	0	22.79	22.55	22.81
		1	2	22.59	22.46	22.66
		1	5	22.95	22.70	23.02
		3	0	22.69	22.52	22.78
		3	1	22.71	22.54	22.79
		3	3	22.63	22.58	22.73
		6	0	21.74	21.49	21.81
	16QAM	1	0	21.94	21.82	21.99
		1	2	21.87	21.75	21.96
		1	5	22.09	21.99	22.21
		3	0	21.74	21.49	21.79
		3	1	21.64	21.50	21.73
		3	3	21.72	21.64	21.78
		6	0	20.68	20.54	20.82
	64QAM	1	0	20.94	20.74	20.93
		1	2	20.76	20.71	20.89
		1	5	21.13	20.88	21.13
		3	0	20.69	20.57	20.76
		3	1	20.68	20.61	20.78
		3	3	20.80	20.58	20.84
		6	0	19.70	19.55	19.76

Band/BW	Modulation	RB Size	RB Offset	Low CH 20415 Frequency 825.5 MHz	Mid CH 20525 Frequency 836.5 MHz	High CH 20635 Frequency 847.5 MHz
5/ 3	QPSK	1	0	22.74	22.54	22.78
		1	7	22.57	22.48	22.69
		1	14	22.89	22.76	22.98
		8	0	21.66	21.59	21.77
		8	3	21.71	21.54	21.76
		8	7	21.63	21.58	21.76
		15	0	21.73	21.49	21.78
	16QAM	1	0	21.98	21.76	22.03
		1	7	21.86	21.76	21.93
		1	14	22.14	21.95	22.24
		8	0	20.74	20.50	20.76
		8	3	20.66	20.48	20.79
		8	7	20.77	20.64	20.76
		15	0	20.68	20.54	20.77
	64QAM	1	0	20.97	20.73	20.96
		1	7	20.79	20.71	20.87
		1	14	21.13	20.88	21.14
		8	0	19.69	19.59	19.79
		8	3	19.72	19.55	19.83
		8	7	19.77	19.62	19.80
		15	0	19.72	19.52	19.80

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425 Frequency 826.5 MHz	Mid CH 20525 Frequency 836.5 MHz	High CH 20625 Frequency 846.5 MHz
5/ 5	QPSK	1	0	22.76	22.56	22.78
		1	12	22.56	22.52	22.66
		1	24	22.93	22.73	23.03
		12	0	21.68	21.58	21.74
		12	6	21.68	21.54	21.82
		12	13	21.63	21.57	21.73
		25	0	21.76	21.46	21.80
	16QAM	1	0	21.92	21.78	21.96
		1	12	21.88	21.78	21.92
		1	24	22.10	21.96	22.24
		12	0	20.70	20.50	20.76
		12	6	20.65	20.51	20.79
		12	13	20.70	20.64	20.78
		25	0	20.65	20.61	20.81
	64QAM	1	0	20.94	20.74	20.90
		1	12	20.76	20.72	20.92
		1	24	21.11	20.91	21.07
		12	0	19.71	19.61	19.81
		12	6	19.66	19.62	19.82
		12	13	19.81	19.61	19.77
		25	0	19.68	19.58	19.78

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
5/ 10	QPSK	1	0	22.80	22.61	22.83
		1	24	22.64	22.53	22.71
		1	49	22.97	22.78	**23.04**
		25	0	21.74	21.60	21.79
		25	12	21.75	21.59	21.84
		25	25	21.71	21.59	21.78
		50	0	21.78	21.54	21.82
	16QAM	1	0	22.00	21.84	22.04
		1	24	21.94	21.80	21.98
		1	49	22.17	22.01	22.26
		25	0	20.76	20.57	20.81
		25	12	20.72	20.56	20.81
		25	25	20.78	20.66	20.84
		50	0	20.73	20.62	20.83
	64QAM	1	0	20.98	20.79	20.98
		1	24	20.84	20.73	20.94
		1	49	21.15	20.96	21.15
		25	0	19.77	19.63	19.84
		25	12	19.74	19.63	19.84
		25	25	19.85	19.66	19.85
		50	0	19.74	19.60	19.81

ERP POWER (dBm)

WCDMA

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
4132	826.4	22.61	2.86	23.32	214.78	7
4182	836.4	22.74	2.86	23.45	221.31	7
4233	846.6	22.89	2.86	23.6	229.09	7

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

LTE BAND 5
CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.95	2.86	23.66	232.27	7
20525	836.5	22.7	2.86	23.41	219.28	7
20643	848.3	23.02	2.86	23.73	236.05	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.09	2.86	22.8	190.55	7
20525	836.5	21.99	2.86	22.7	186.21	7
20643	848.3	22.21	2.86	22.92	195.88	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	21.13	2.86	21.84	152.76	7
20525	836.5	20.88	2.86	21.59	144.21	7
20643	848.3	21.13	2.86	21.84	152.76	7

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.89	2.86	23.6	229.09	7
20525	836.5	22.76	2.86	23.47	222.33	7
20635	847.5	22.98	2.86	23.69	233.88	7

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.14	2.86	22.85	192.75	7
20525	836.5	21.95	2.86	22.66	184.5	7
20635	847.5	22.24	2.86	22.95	197.24	7

CHANNEL BANDWIDTH: 3MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	21.13	2.86	21.84	152.76	7
20525	836.5	20.88	2.86	21.59	144.21	7
20635	847.5	21.14	2.86	21.85	153.11	7

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.93	2.86	23.64	231.21	7
20525	836.5	22.73	2.86	23.44	220.8	7
20625	846.5	23.03	2.86	23.74	236.59	7

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.1	2.86	22.81	190.99	7
20525	836.5	21.96	2.86	22.67	184.93	7
20625	846.5	22.24	2.86	22.95	197.24	7

CHANNEL BANDWIDTH: 5MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	21.11	2.86	21.82	152.05	7
20525	836.5	20.91	2.86	21.62	145.21	7
20625	846.5	21.07	2.86	21.78	150.66	7

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.97	2.86	23.68	233.35	7
20525	836.5	22.78	2.86	23.49	223.36	7
20600	844.0	23.04	2.86	23.75	237.14	7

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	22.17	2.86	22.88	194.09	7
20525	836.5	22.01	2.86	22.72	187.07	7
20600	844.0	22.26	2.86	22.97	198.15	7

CHANNEL BANDWIDTH: 10MHz 64QAM

Channel	Frequency (MHz)	Conducted Power (dBm)	G_T-L_C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829.0	21.15	2.86	21.86	153.46	7
20525	836.5	20.96	2.86	21.67	146.89	7
20600	844.0	21.15	2.86	21.86	153.46	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

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

3.2.2 TEST PROCEDURE

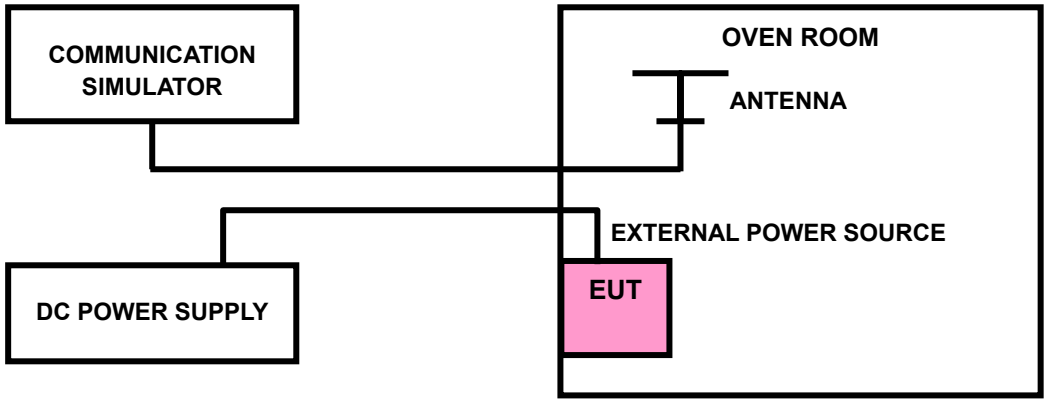
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

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 ±0.5℃ 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



3.2.4 TEST RESULTS

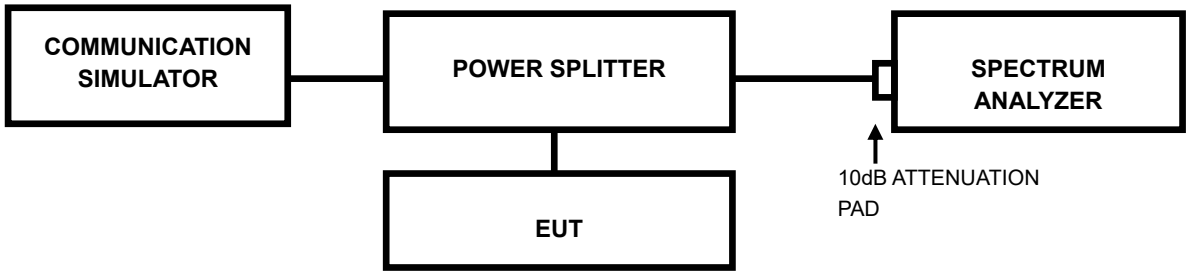
Please Refer to Appendix Of this test report.

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

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

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

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

3.3.4 TEST RESULTS

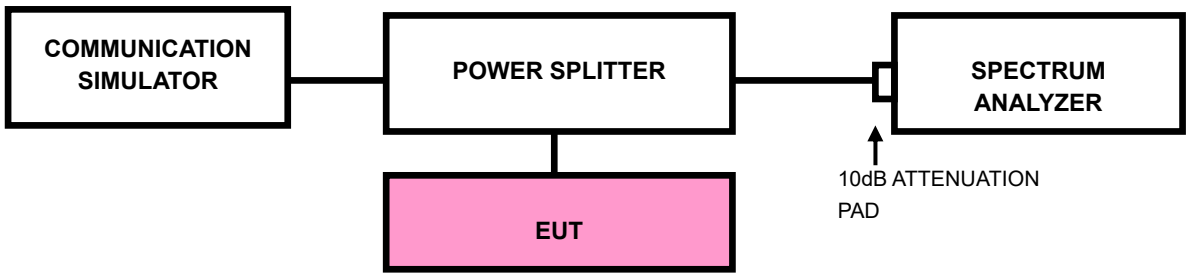
Please Refer to Appendix Of this test report.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

a. All measurements were done at low and high operational frequency range.

b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).

c. The center frequency of spectrum is the band edge frequency and span is 2MHz. RBW of the spectrum is 51kHz and VBW of the spectrum is 150kHz (WCDMA).

d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is ≥1%*EBW kHz and VBW of the spectrum is 3*RBW kHz. (GSM/GPRS/ EDGE/WCDMA/LTE bandwidth for (1.4M/3M/5M/10M/15M/20MHz)Full RB/0RB).

e. Record the max trace plot into the test report.

3.4.4 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

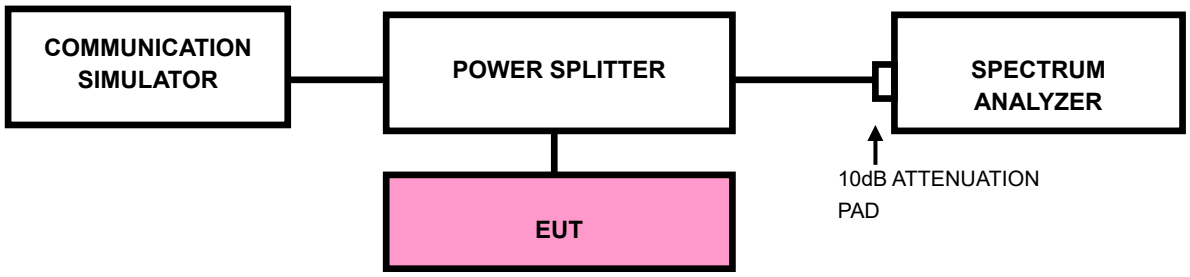
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

3.5.2 TEST PROCEDURE

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 9kHz up to a frequency including its 10 th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

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

Please Refer to Appendix Of this test report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

3.6.2 TEST PROCEDURES

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G

c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

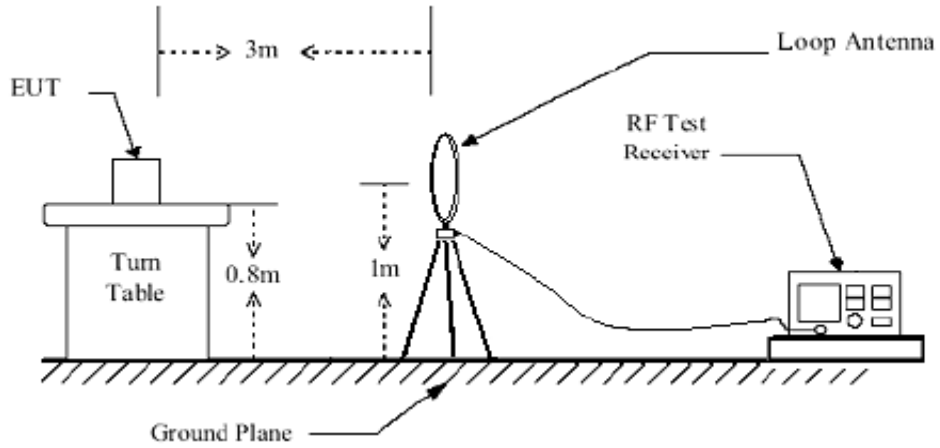
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

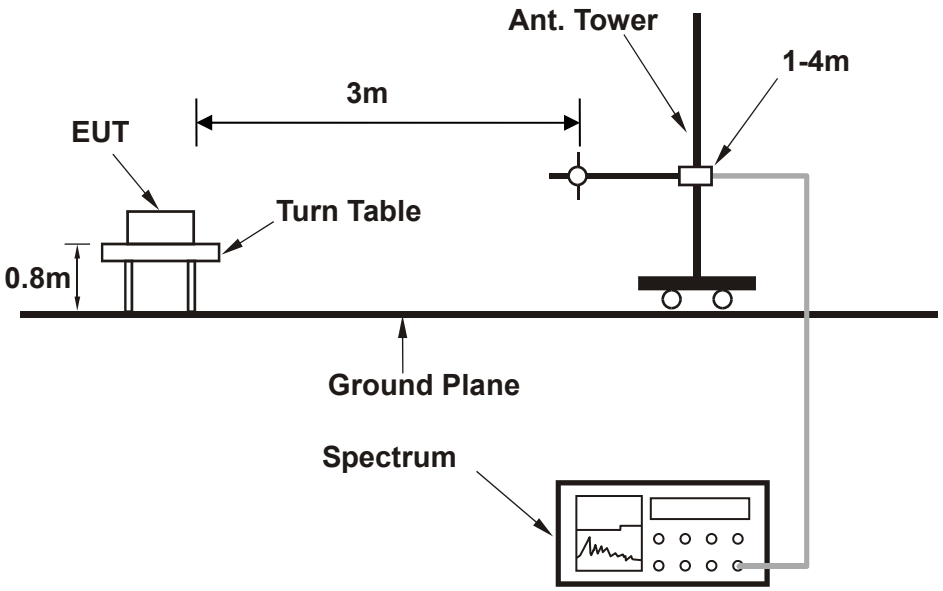
No deviation

3.6.4 TEST SETUP

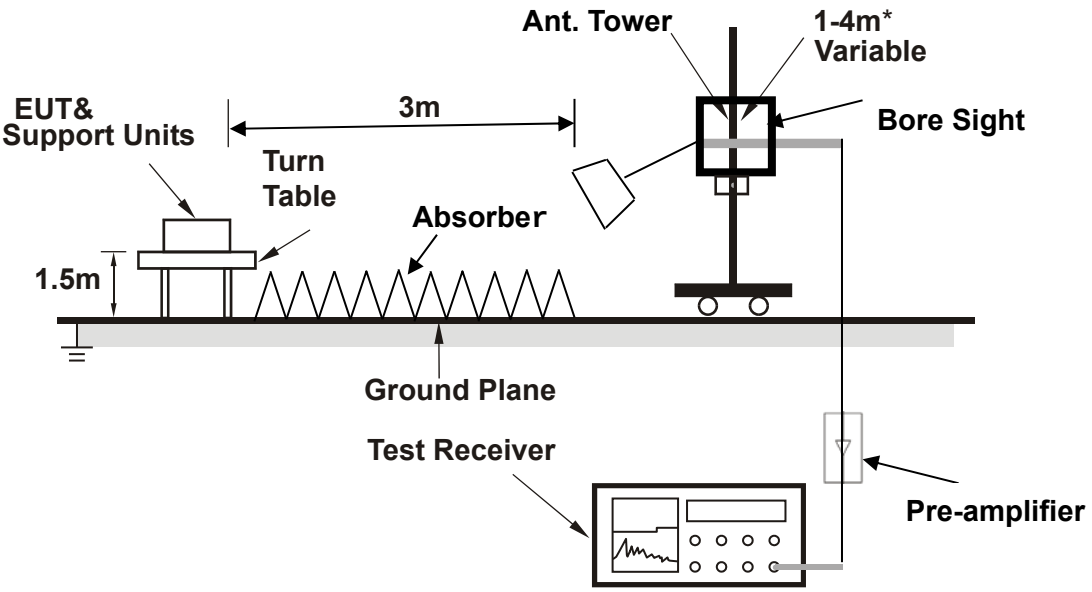
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

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

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

3.6.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

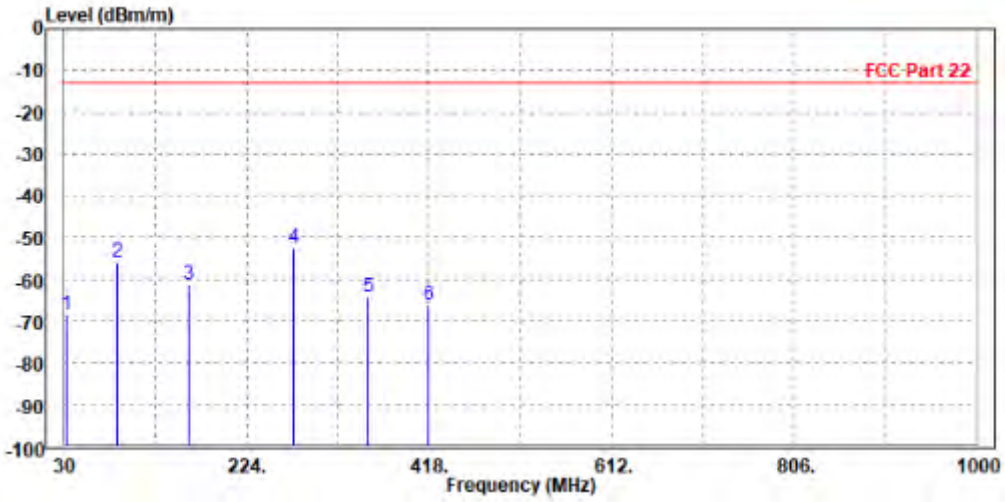
30 MHz – 1GHz data:

LTE Band 5:

CHANNEL BANDWIDTH: 3 MHz / QPSK

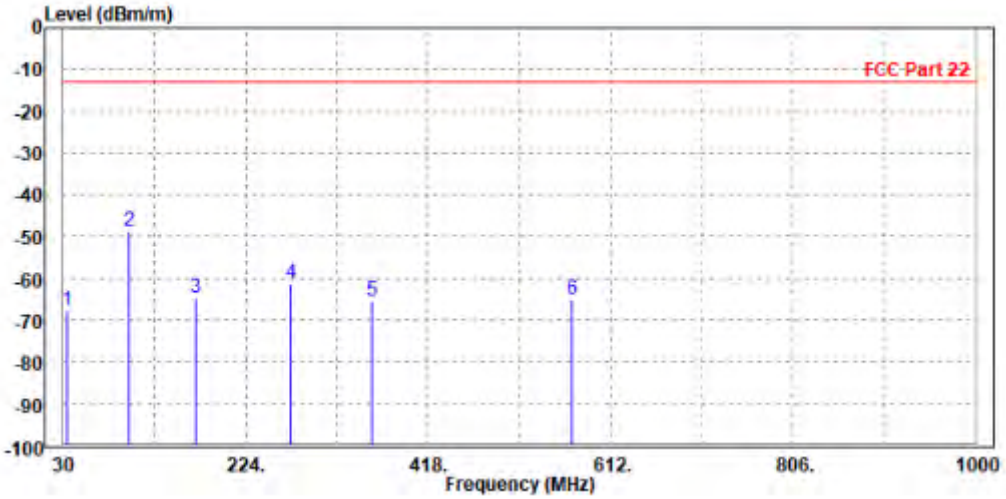
MODE	TX channel 20635	**FREQUENCY RANGE**	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	32.910	-68.59	-58.17	-13.00	-55.59	-10.42	Peak	Horizontal
2	86.260	-55.73	-34.56	-13.00	-42.73	-21.17	Peak	Horizontal
3	161.920	-61.31	-45.36	-13.00	-48.31	-15.95	Peak	Horizontal
4 PP	274.440	-52.44	-40.49	-13.00	-39.44	-11.95	Peak	Horizontal
5	353.010	-64.42	-53.25	-13.00	-51.42	-11.17	Peak	Horizontal
6	417.030	-65.98	-56.26	-13.00	-52.98	-9.72	Peak	Horizontal



MODE	TX channel 20635	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

		Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		33.880	-67.56	-47.80	-13.00	-54.56	-19.76	Peak	Vertical
2	PP	99.840	-48.83	-42.32	-13.00	-35.83	-6.51	Peak	Vertical
3		171.620	-64.82	-46.99	-13.00	-51.82	-17.83	Peak	Vertical
4		272.500	-61.36	-49.01	-13.00	-48.36	-12.35	Peak	Vertical
5		358.830	-65.33	-55.58	-13.00	-52.33	-9.75	Peak	Vertical
6		570.290	-65.10	-58.38	-13.00	-52.10	-6.72	Peak	Vertical



ABOVE 1GHz DATA

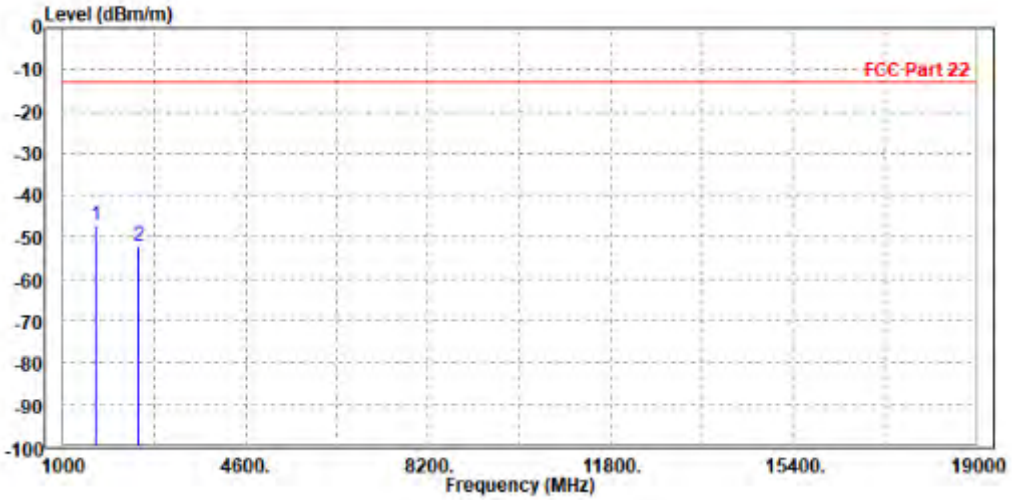
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band V:

CH 4132:

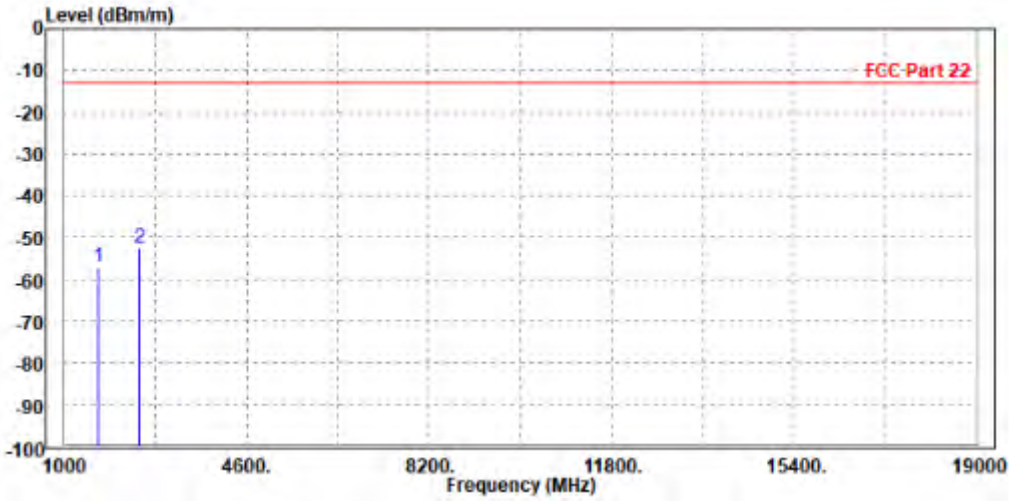
MODE	TX channel 4132	**FREQUENCY RANGE**	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	**INPUT POWER**	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1648.000	-47.00	-47.77	-13.00	-34.00	0.77	Peak	Horizontal
2	2479.200	-51.94	-57.30	-13.00	-38.94	5.36	Peak	Horizontal



MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

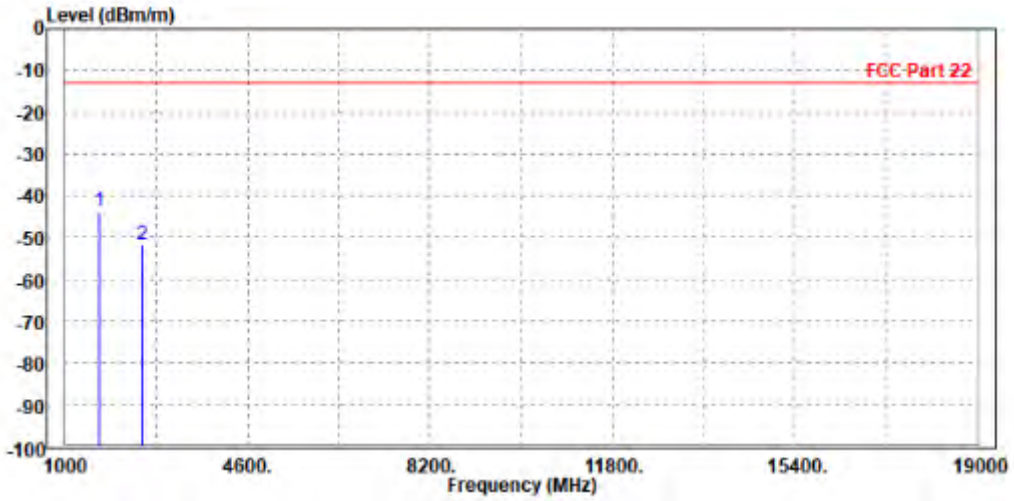
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1672.800	-56.90	-58.12	-13.00	-43.90	1.22	Peak	Vertical
2 PP	2476.000	-52.43	-57.30	-13.00	-39.43	4.87	Peak	Vertical



CH 4182:

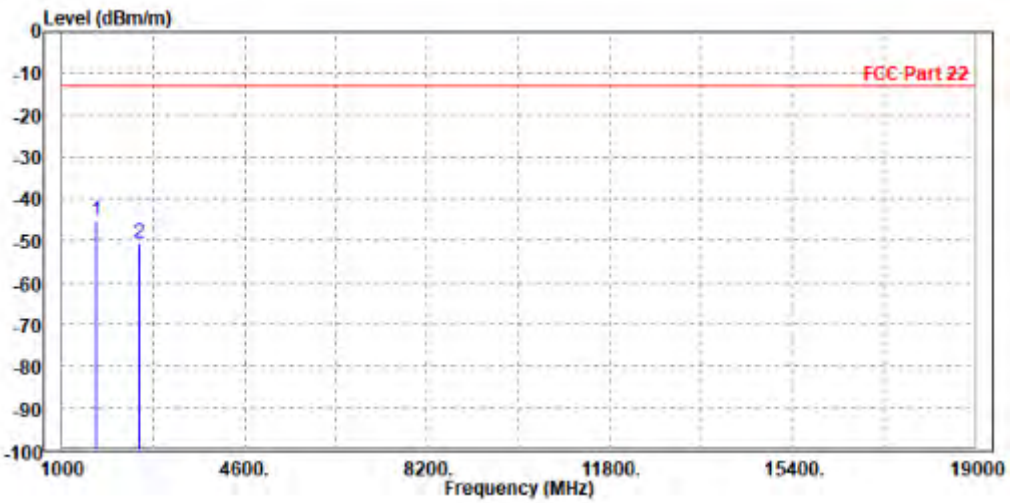
MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1672.800	-43.89	-44.86	-13.00	-30.89	0.97	Peak	Horizontal
2	2512.000	-51.62	-57.09	-13.00	-38.62	5.47	Peak	Horizontal



MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

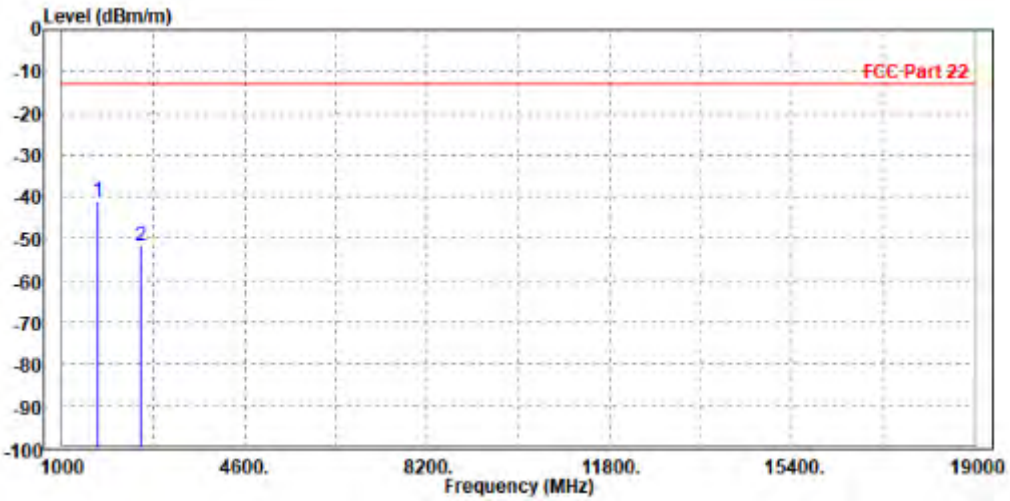
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-45.28	-46.45	-13.00	-32.28	1.17	Peak	Vertical
2	2509.200	-50.53	-55.50	-13.00	-37.53	4.97	Peak	Vertical



CH 4233:

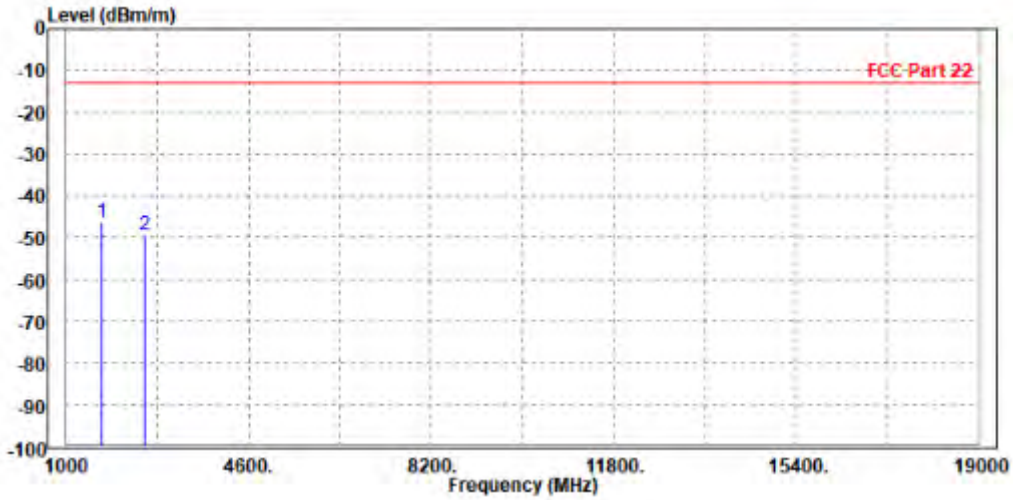
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1693.200	-41.16	-42.30	-13.00	-28.16	1.14	Peak	Horizontal
2	2548.000	-51.83	-57.38	-13.00	-38.83	5.55	Peak	Horizontal



MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1702.000	-46.51	-47.94	-13.00	-33.51	1.43	Peak	Vertical
2	2539.800	-49.59	-54.66	-13.00	-36.59	5.07	Peak	Vertical



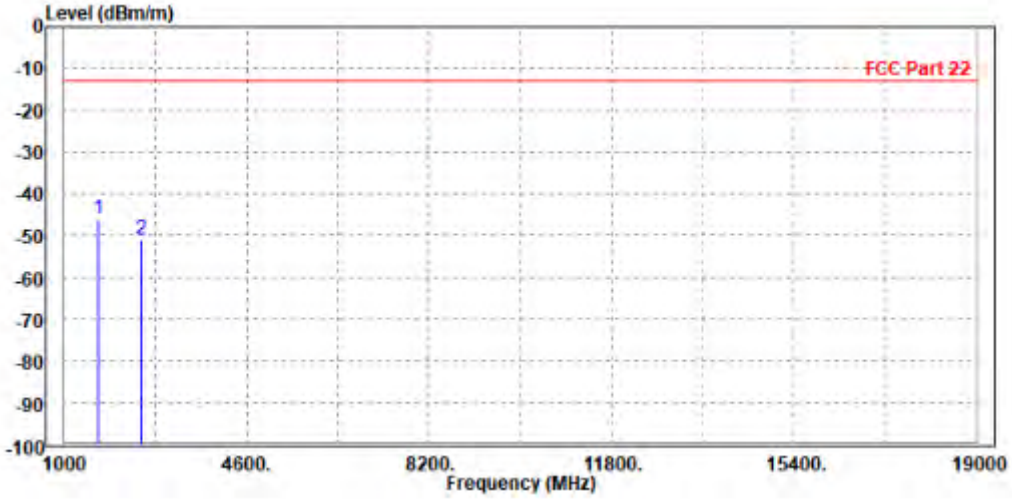
LTE Band 5

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH20525

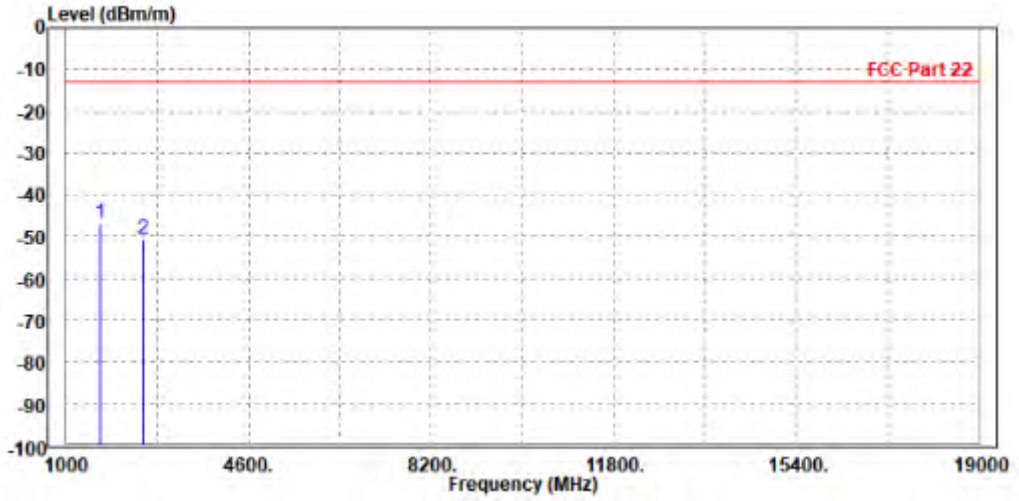
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1666.000	-45.99	-46.91	-13.00	-32.99	0.92	Peak	Horizontal
2	2509.500	-50.96	-56.42	-13.00	-37.96	5.46	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1666.000	-46.81	-47.98	-13.00	-33.81	1.17	Peak	Vertical
2	2509.500	-50.60	-55.57	-13.00	-37.60	4.97	Peak	Vertical

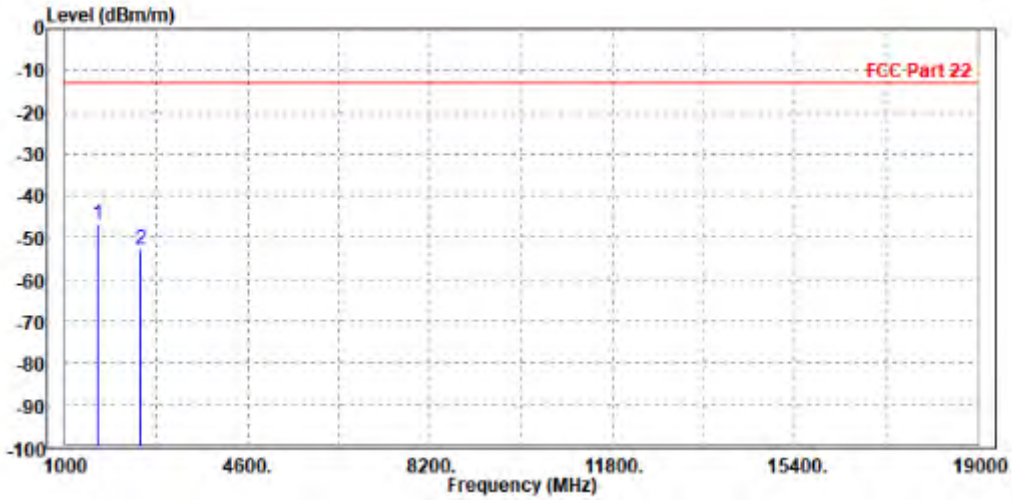


CHANNEL BANDWIDTH: 3MHz / QPSK

CH20415

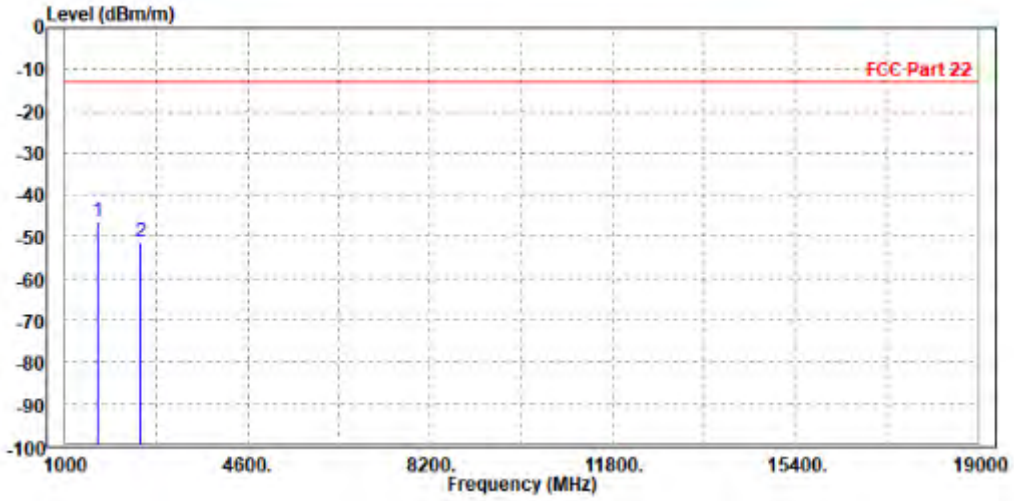
MODE	TX channel 20415	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1648.000	-46.78	-47.55	-13.00	-33.78	0.77	Peak	Horizontal
2	2476.500	-52.80	-58.15	-13.00	-39.80	5.35	Peak	Horizontal



MODE	TX channel 20415	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

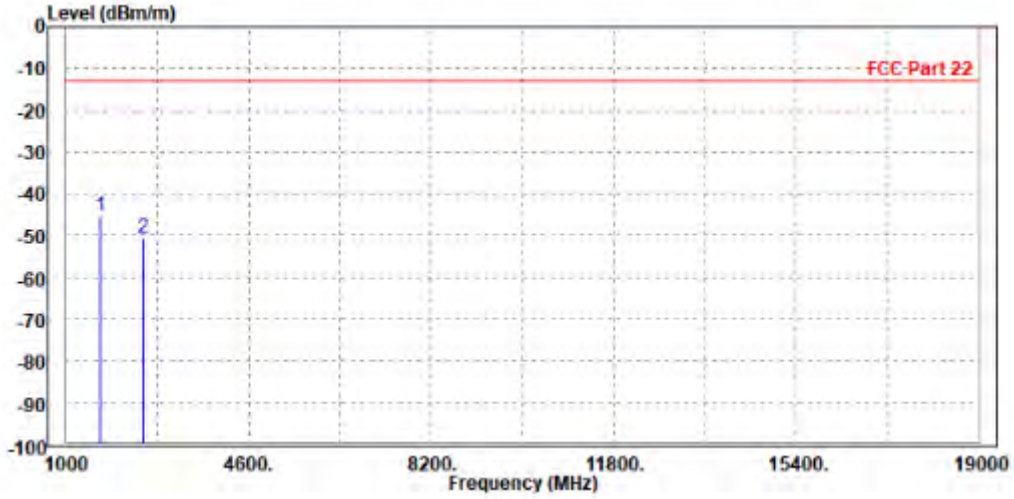
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1651.000	-46.57	-47.63	-13.00	-33.57	1.06	Peak	Vertical
2	2476.000	-51.31	-56.18	-13.00	-38.31	4.87	Peak	Vertical



CH20525

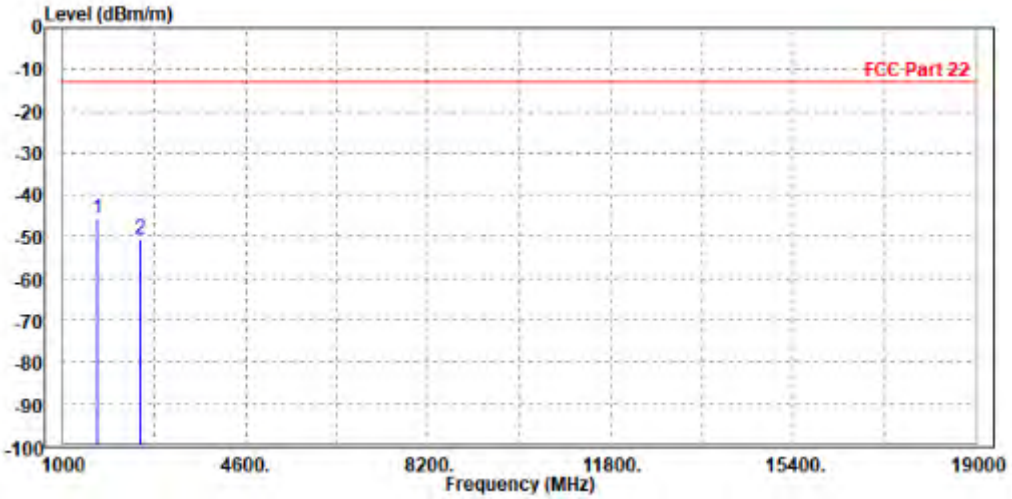
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1666.000	-45.18	-46.10	-13.00	-32.18	0.92	Peak	Horizontal
2	2509.500	-50.73	-56.19	-13.00	-37.73	5.46	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

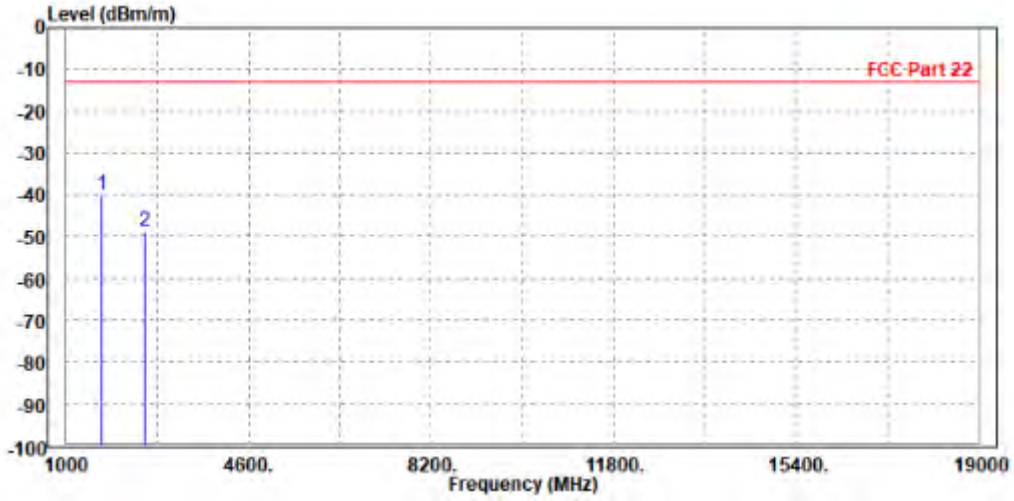
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1673.000	-45.74	-46.96	-13.00	-32.74	1.22	Peak	Vertical
2	2512.000	-50.73	-55.71	-13.00	-37.73	4.98	Peak	Vertical



CH20635

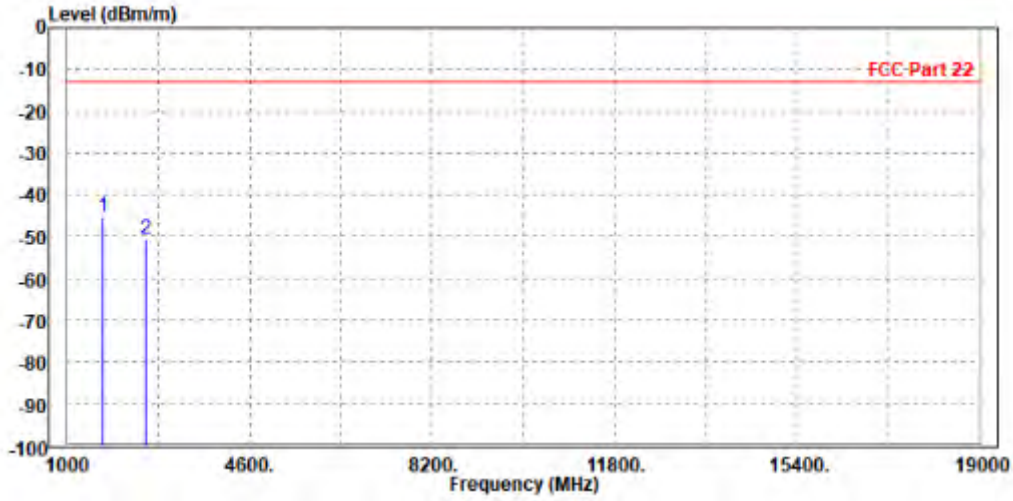
MODE	TX channel 20635	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1695.000	-39.84	-40.99	-13.00	-26.84	1.15	Peak	Horizontal
2	2548.000	-48.83	-54.38	-13.00	-35.83	5.55	Peak	Horizontal



MODE	TX channel 20635	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

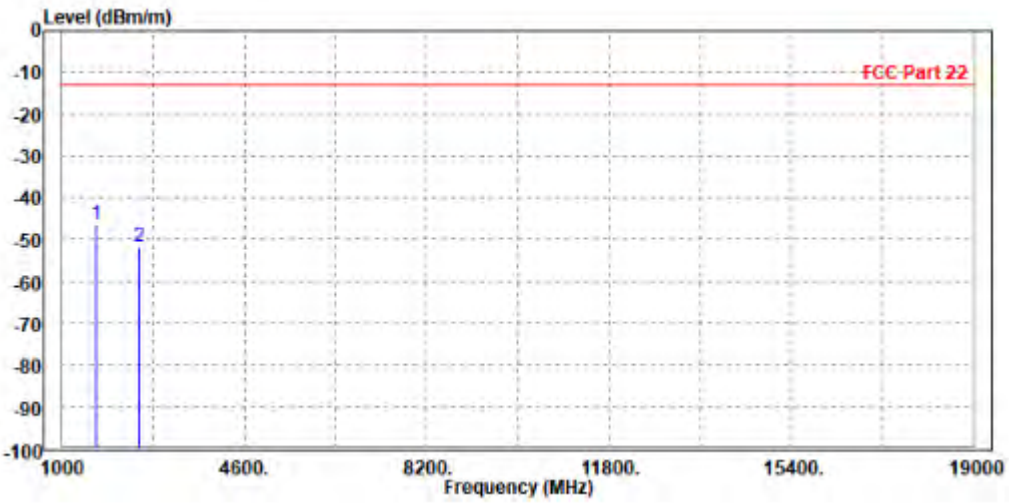
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1702.000	-45.20	-46.63	-13.00	-32.20	1.43	Peak	Vertical
2	2542.500	-50.49	-55.57	-13.00	-37.49	5.08	Peak	Vertical



CHANNEL BANDWIDTH: 5MHz / QPSK

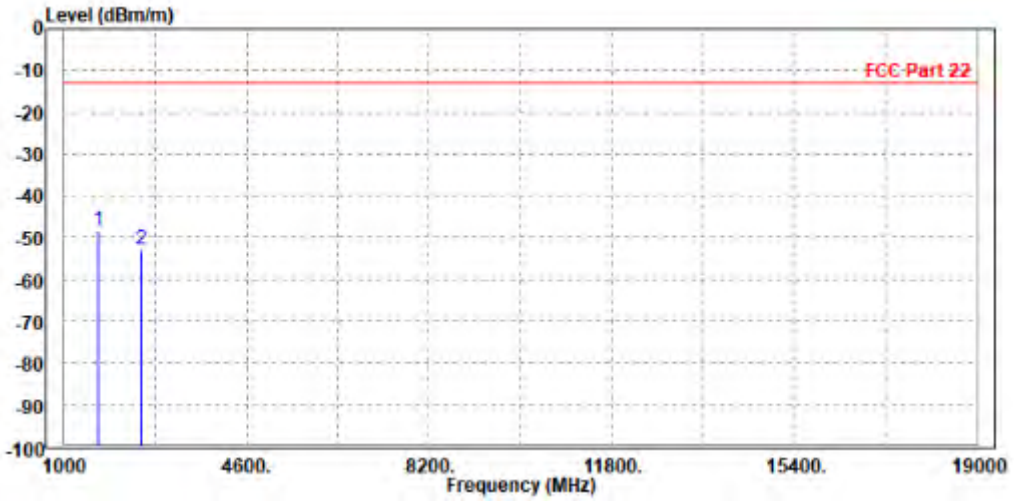
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1673.000	-46.31	-47.29	-13.00	-33.31	0.98	Peak	Horizontal
2	2512.000	-51.73	-57.20	-13.00	-38.73	5.47	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

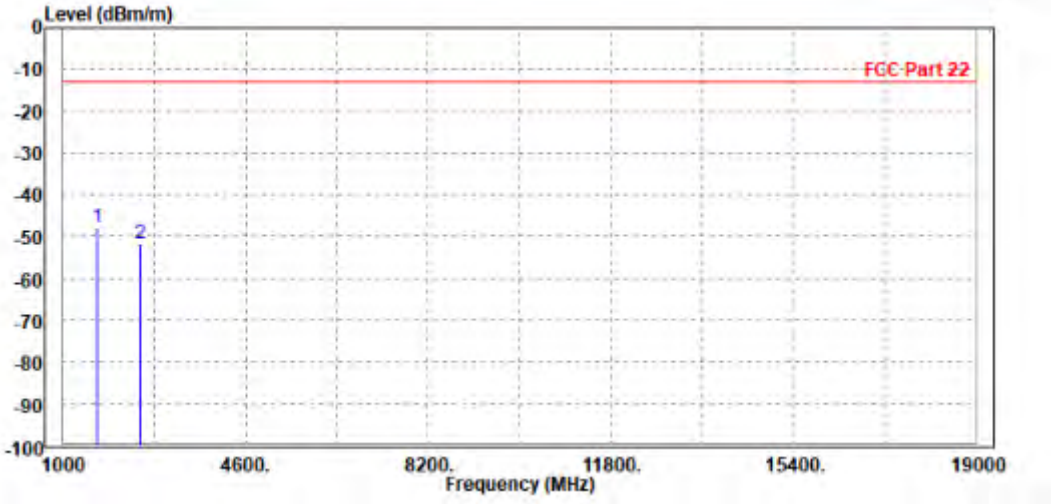
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1666.000	-48.19	-49.36	-13.00	-35.19	1.17	Peak	Vertical
2	2509.500	-53.04	-58.01	-13.00	-40.04	4.97	Peak	Vertical



CHANNEL BANDWIDTH: 10MHz / QPSK

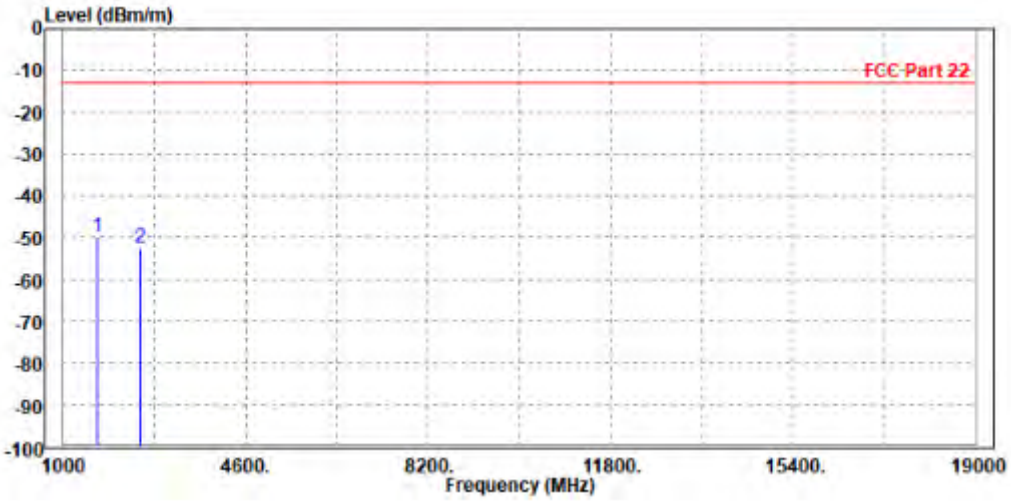
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	1666.000	-48.01	-48.93	-13.00	-35.01	0.92	Peak	Horizontal
2	2509.500	-51.86	-57.32	-13.00	-38.86	5.46	Peak	Horizontal



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1673.000	-49.71	-50.93	-13.00	-36.71	1.22	Peak	Vertical
2	2512.000	-52.51	-57.49	-13.00	-39.51	4.98	Peak	Vertical

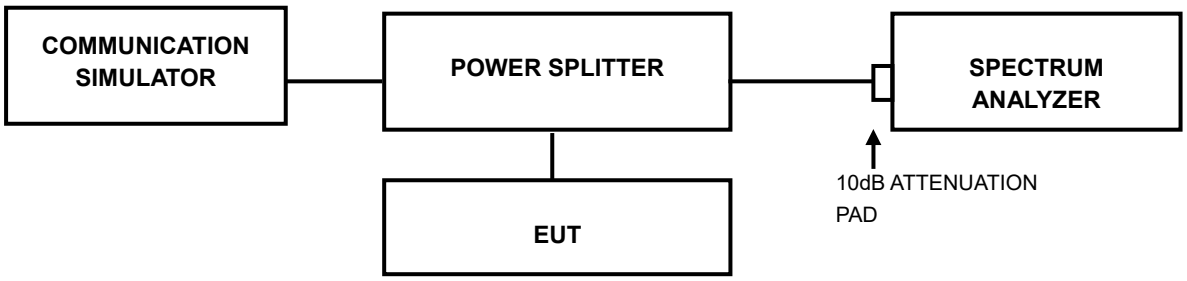


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

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

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth ≥ 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%.

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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

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Tel: +86-755-88696566
Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com
Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

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

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

7 APPENDIX

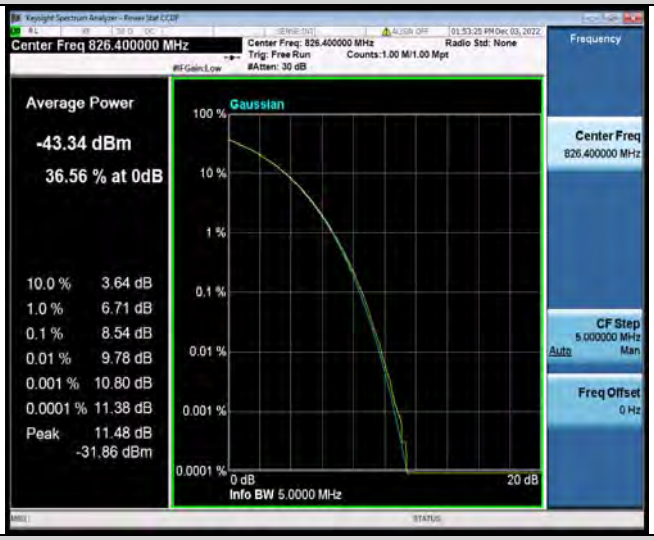
WCMDA BAND5

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	8.54	13	PASS
Band5	4182	3.85	13	PASS
Band5	4233	3.04	13	PASS

Test Graphs

Band5-4132

Band5-4182

Band5-4233


Center Freq 846.600000 MHz
Center Freq: 846.600000 MHz
Trig: Free Run
#Atten: 30 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
Frequency
Average Power
23.41 dBm
53.60 % at 0dB
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
10.0 % 1.63 dB
1.0 % 2.54 dB
0.1 % 3.04 dB
0.01 % 3.27 dB
0.001 % 3.44 dB
0.0001 % 3.50 dB
Peak 3.51 dB
26.92 dBm
0 dB
20 dB
Info BW 5.0000 MHz
Center Freq
846.600000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1439	4.736	---	PASS
Band5	4182	4.1487	4.736	---	PASS
Band5	4233	4.1387	4.724	---	PASS

Test Graphs

Band5-4132

Band5-4182

Band5-4233


Center Freq 846.600000 MHz
Center Freq: 846.600000 MHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 12.61 dB
10 dB/div
Ref 40.00 dBm
Log
Center Freq
846.600000 MHz
Center 846.6 MHz
#Res BW 100 kHz
#VBW 300 kHz
Span 10 MHz
#Sweep 100 ms
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.1387 MHz
Total Power
25.9 dBm
Transmit Freq Error
-12.003 kHz
OBW Power
99.00 %
x dB Bandwidth
4.724 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	824.00	-25.59	-13	PASS
Band5	4233	849.00	-24.40	-13	PASS

Test Graphs

Band5-4132

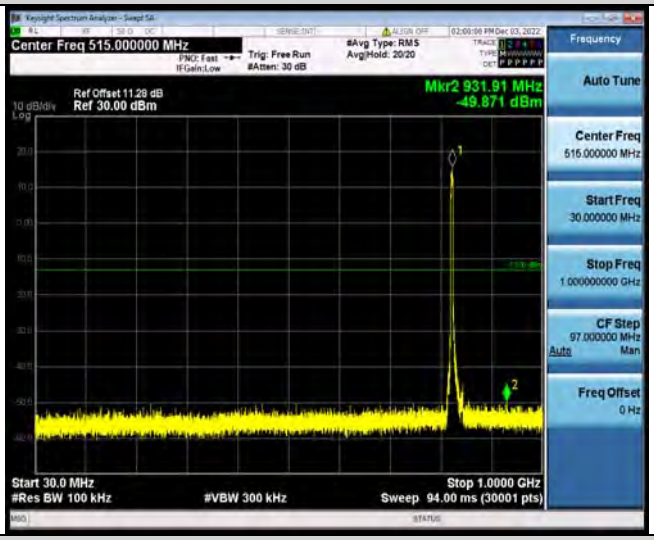
Band5-4233


CONDUCTED SPURIOUS EMISSION

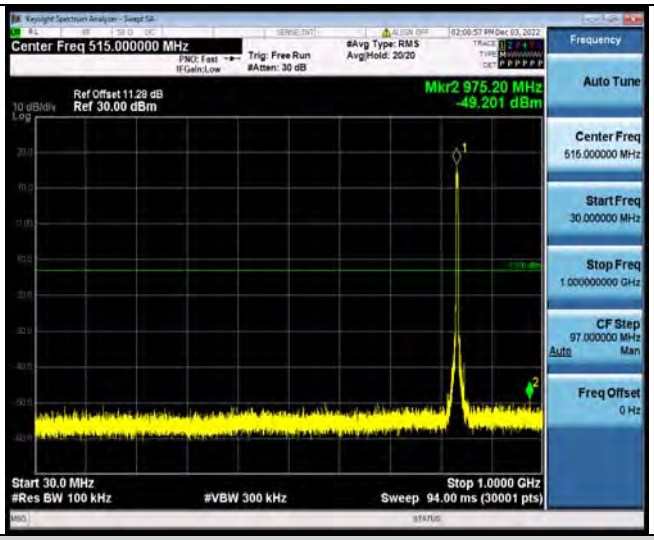
Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	931.91	-49.87	-13	PASS
Band5	4132	1000~10000MHz	3811.6	-32.48	-13	PASS
Band5	4182	30~1000MHz	975.2	-49.2	-13	PASS
Band5	4182	1000~10000MHz	3812.8	-32.29	-13	PASS
Band5	4233	30~1000MHz	998.55	-50.25	-13	PASS
Band5	4233	1000~10000MHz	3802	-32.69	-13	PASS

Test Graphs

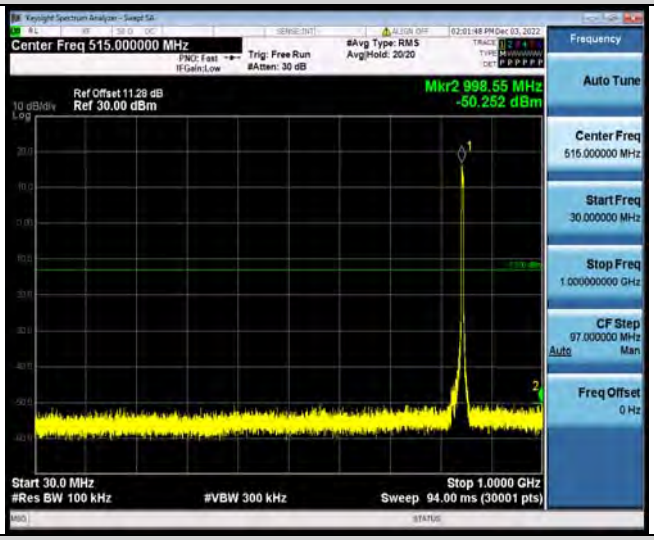
Band5-4132-30~1000MHz

Band5-4132-1000~10000MHz

Band5-4182-30~1000MHz



Band5-4182-1000~10000MHz

Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz


Center Freq 5.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 10/10
Mkr1 3.802 0 GHz
-32.690 dBm
Ref Offset 12.72 dB
10 dB/div
Ref 20.00 dBm
Log
Start 1.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 10.000 GHz
#Sweep 3.000 s (30001 pts)
Frequency
Auto Tune
Center Freq
5.500000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
10.000000000 GHz
CF Step
900.000000 MHz
Auto
Man
Freq Offset
0 Hz

FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	-0.45	-0.000545	±2.5	PASS
Band5	4132	VN	NT	-0.62	-0.000750	±2.5	PASS
Band5	4132	VH	NT	-0.57	-0.000690	±2.5	PASS
Band5	4182	VL	NT	-0.65	-0.000777	±2.5	PASS
Band5	4182	VN	NT	-0.50	-0.000598	±2.5	PASS
Band5	4182	VH	NT	-0.39	-0.000466	±2.5	PASS
Band5	4233	VL	NT	-1.27	-0.001500	±2.5	PASS
Band5	4233	VN	NT	-1.29	-0.001524	±2.5	PASS
Band5	4233	VH	NT	-1.32	-0.001559	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	-0.62	-0.000750	±2.5	PASS
Band5	4132	NV	-20	-0.49	-0.000593	±2.5	PASS
Band5	4132	NV	0	-0.60	-0.000726	±2.5	PASS
Band5	4132	NV	10	-0.26	-0.000315	±2.5	PASS
Band5	4132	NV	20	-0.53	-0.000641	±2.5	PASS
Band5	4182	NV	-30	-0.54	-0.000646	±2.5	PASS
Band5	4182	NV	-20	-0.54	-0.000646	±2.5	PASS
Band5	4182	NV	0	-0.41	-0.000490	±2.5	PASS
Band5	4182	NV	10	-0.39	-0.000466	±2.5	PASS
Band5	4182	NV	20	-0.70	-0.000837	±2.5	PASS
Band5	4233	NV	-30	-1.37	-0.001618	±2.5	PASS
Band5	4233	NV	-20	-1.54	-0.001819	±2.5	PASS
Band5	4233	NV	0	-1.54	-0.001819	±2.5	PASS
Band5	4233	NV	10	-1.44	-0.001701	±2.5	PASS
Band5	4233	NV	20	-1.33	-0.001571	±2.5	PASS

LTE BAND5

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.74	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.25	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.63	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.23	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.62	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.18	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.76	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.06	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.52	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.10	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.55	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.10	13	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	6.45	13	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	6.67	13	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	6.54	13	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	6.70	13	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	6.40	13	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	6.29	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.75	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.28	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.65	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.29	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.70	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.28	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.58	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.08	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.55	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.14	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.53	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.08	13	PASS
Band5	3MHz	64QAM	20415	1RB#0	6.56	13	PASS
Band5	3MHz	64QAM	20415	15RB#0	6.66	13	PASS
Band5	3MHz	64QAM	20525	1RB#0	6.42	13	PASS
Band5	3MHz	64QAM	20525	15RB#0	6.54	13	PASS
Band5	3MHz	64QAM	20635	1RB#0	6.25	13	PASS
Band5	3MHz	64QAM	20635	15RB#0	6.55	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.66	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.22	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.54	13	PASS

Band5	5MHz	QPSK	20525	25RB#0	5.25	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.62	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.17	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.50	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.07	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.52	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.05	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.38	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.00	13	PASS
Band5	5MHz	64QAM	20425	1RB#0	6.57	13	PASS
Band5	5MHz	64QAM	20425	25RB#0	6.59	13	PASS
Band5	5MHz	64QAM	20525	1RB#0	6.29	13	PASS
Band5	5MHz	64QAM	20525	25RB#0	6.54	13	PASS
Band5	5MHz	64QAM	20625	1RB#0	6.41	13	PASS
Band5	5MHz	64QAM	20625	25RB#0	6.57	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.63	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.20	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.50	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.17	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.51	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.15	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.02	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.26	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.96	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.41	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.97	13	PASS
Band5	10MHz	64QAM	20450	1RB#0	6.37	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.48	13	PASS
Band5	10MHz	64QAM	20525	1RB#0	6.15	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.41	13	PASS
Band5	10MHz	64QAM	20600	1RB#0	6.40	13	PASS
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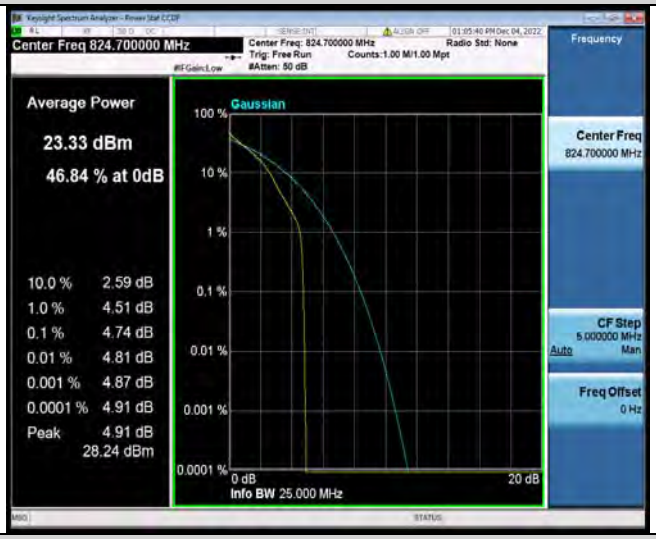
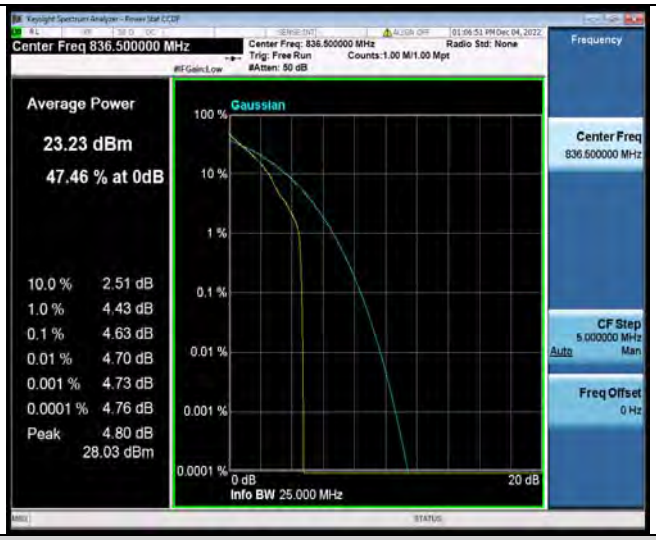
Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0

Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20525-1RB#0



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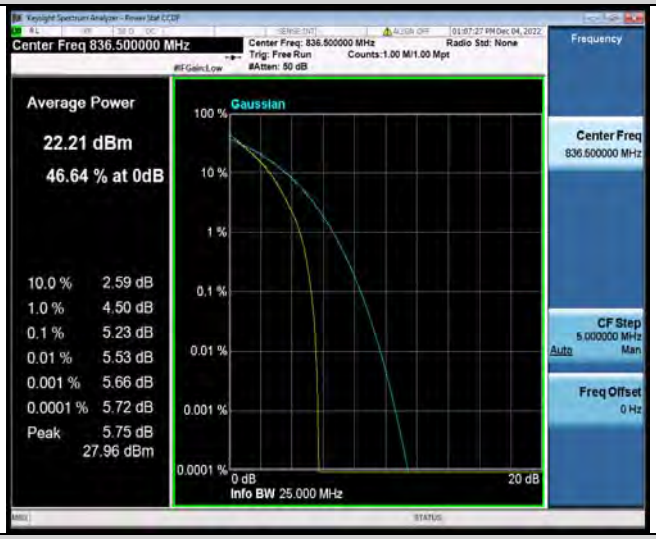

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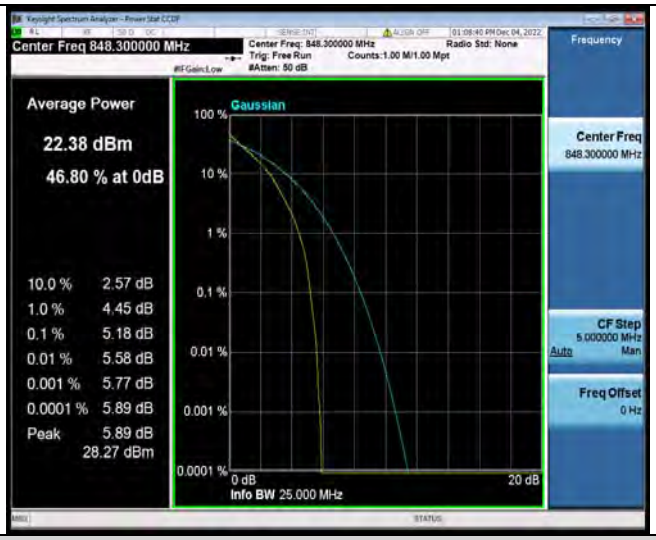

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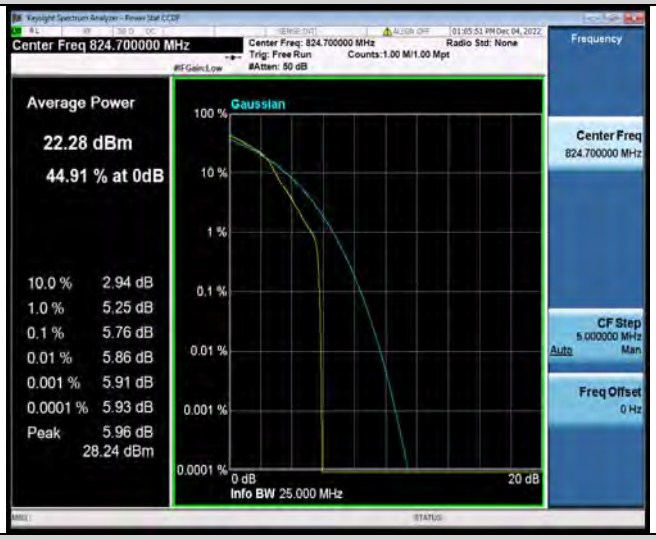

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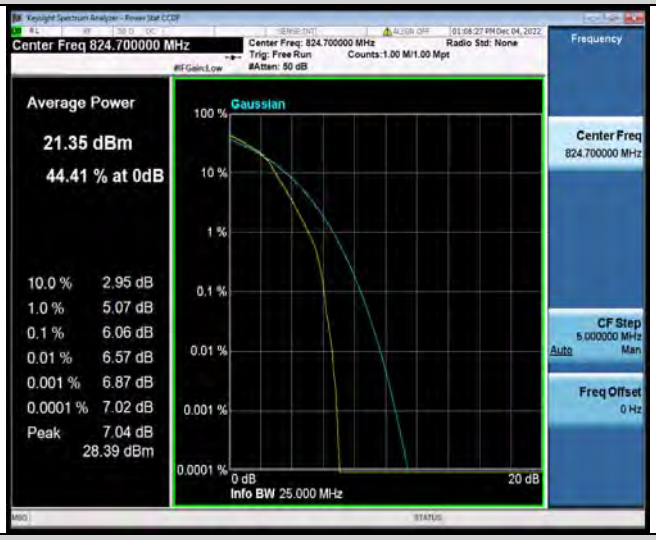

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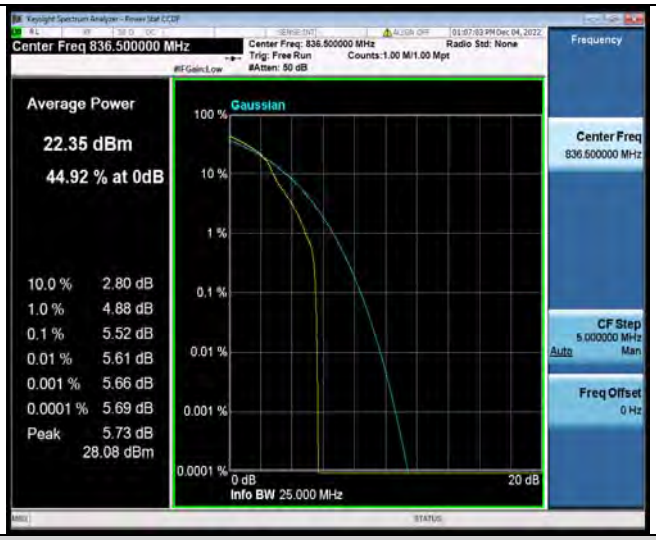

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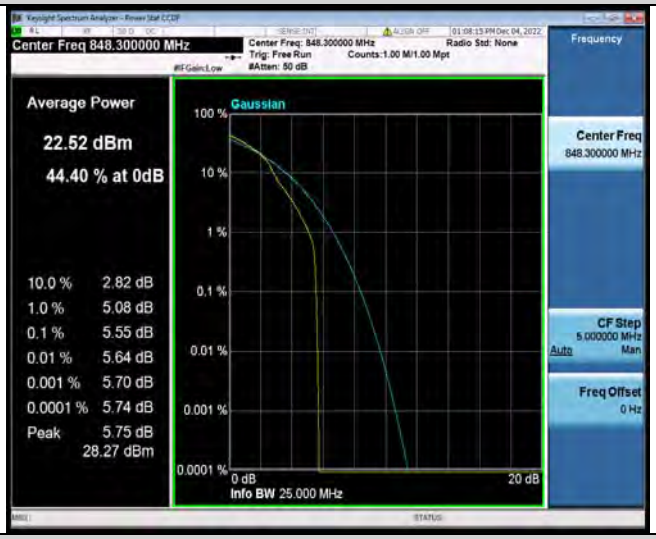

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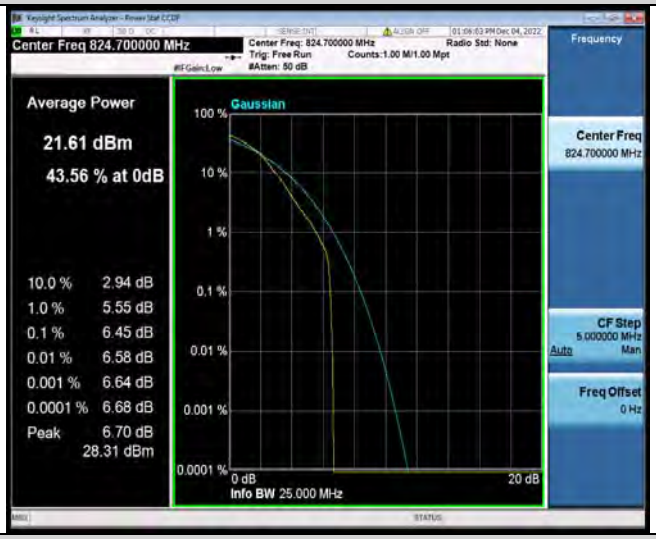

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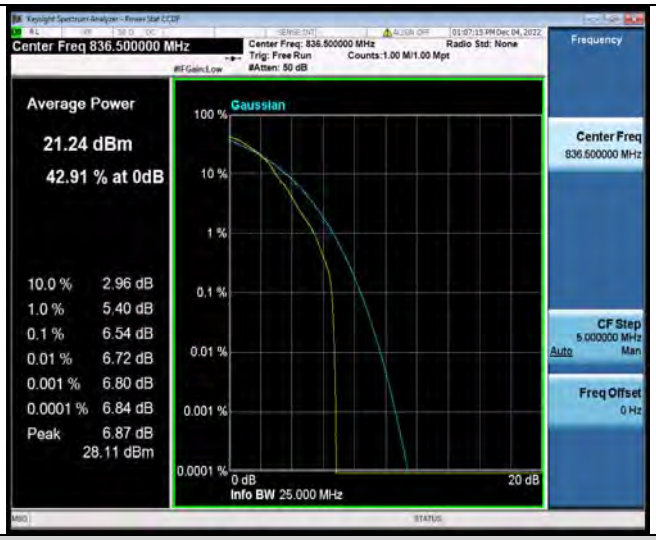

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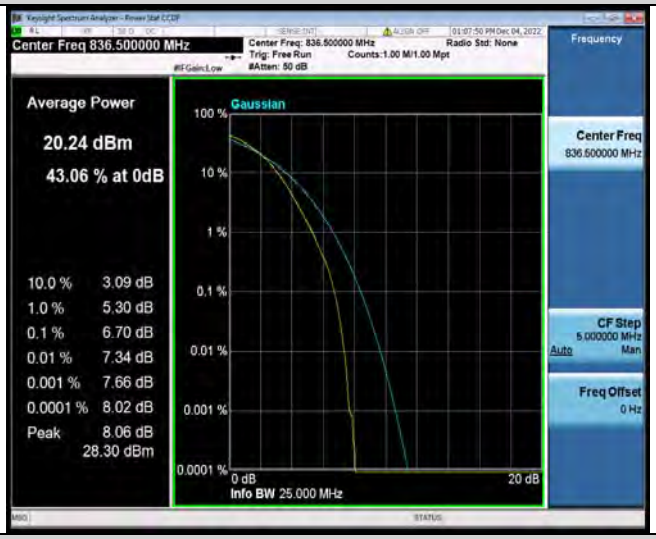

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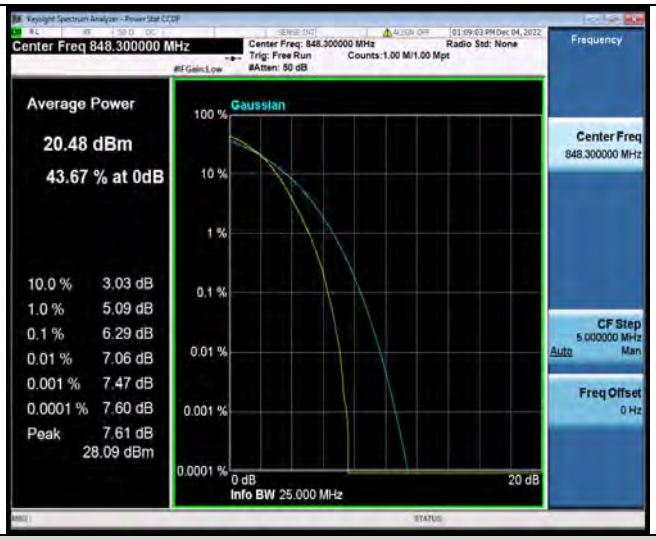

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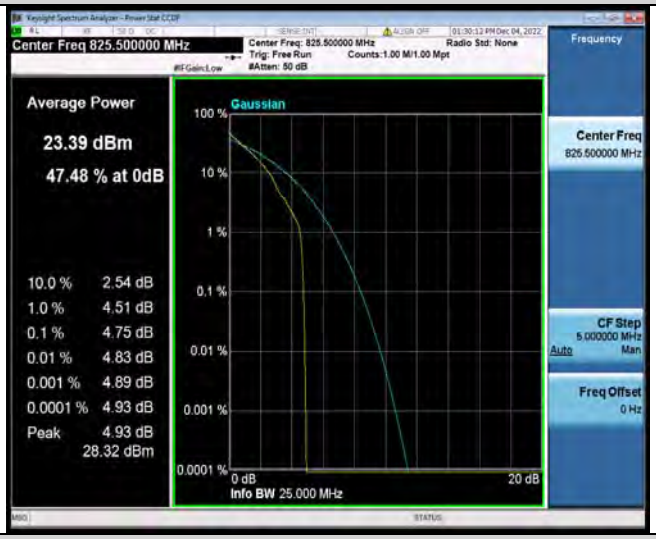

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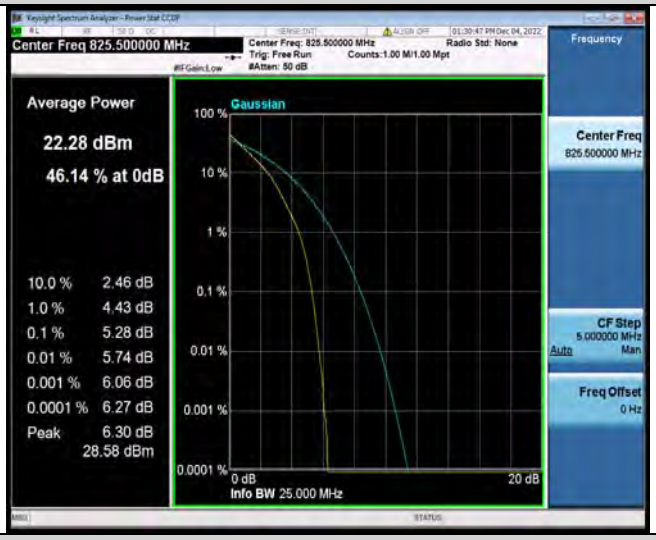

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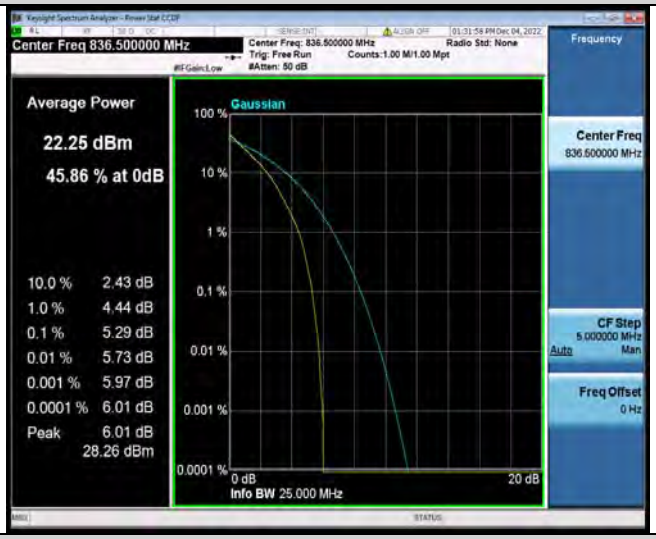

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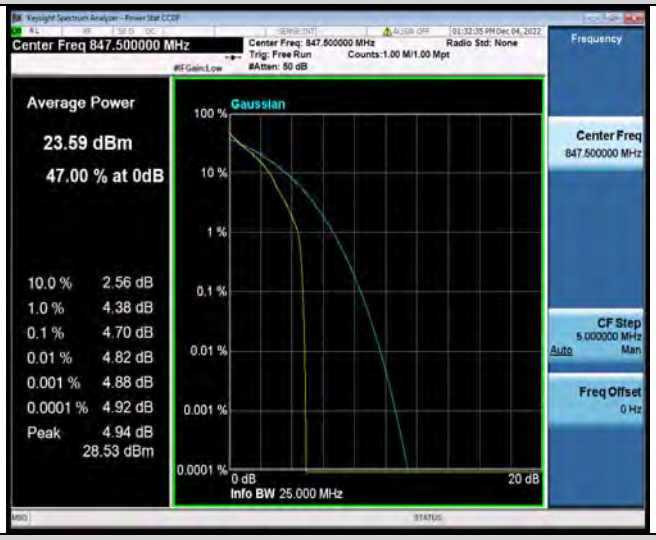

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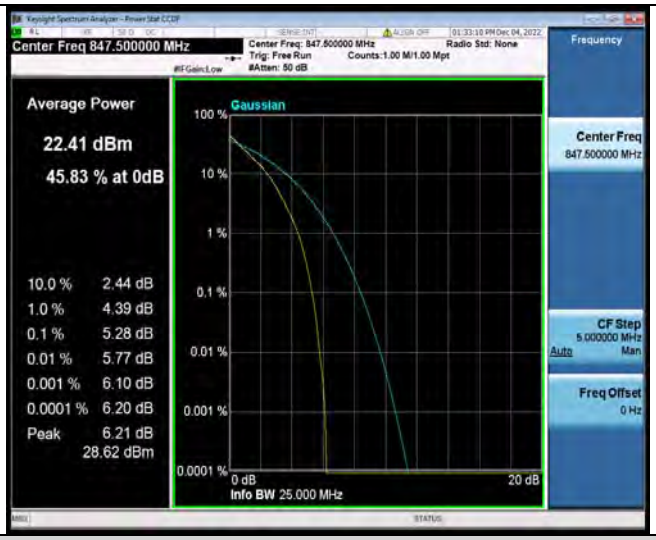

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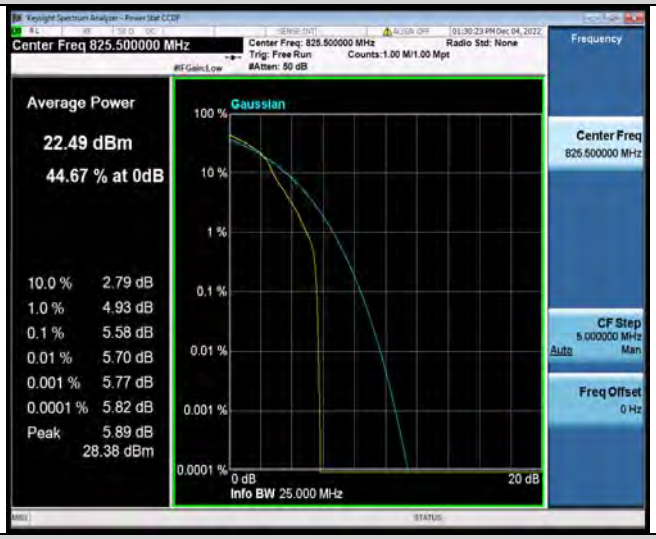

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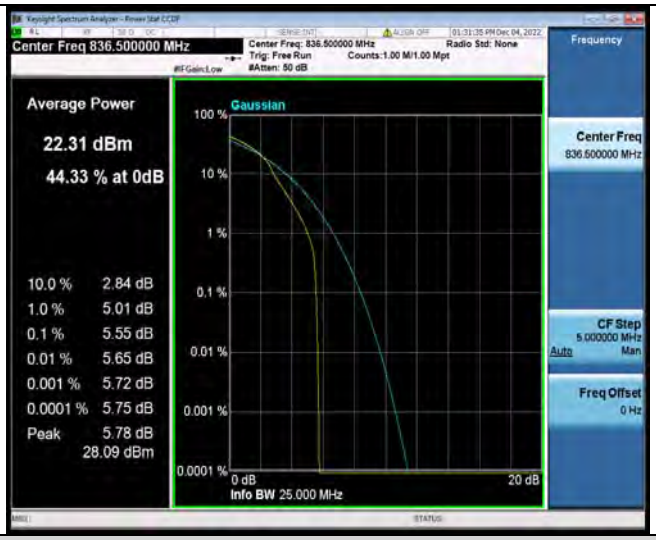

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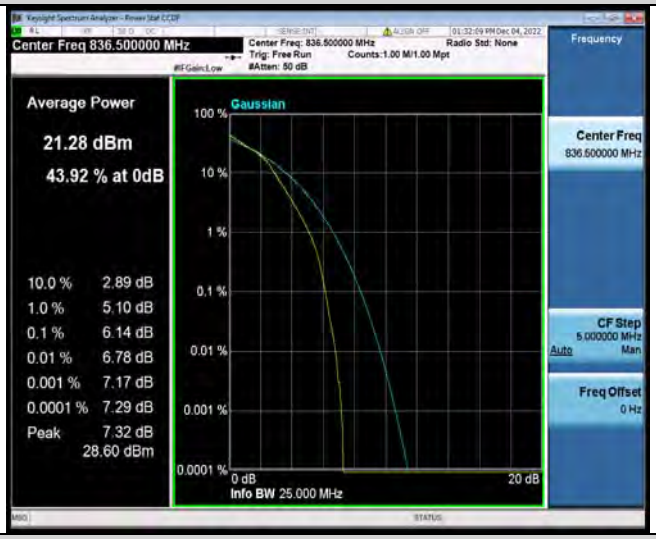

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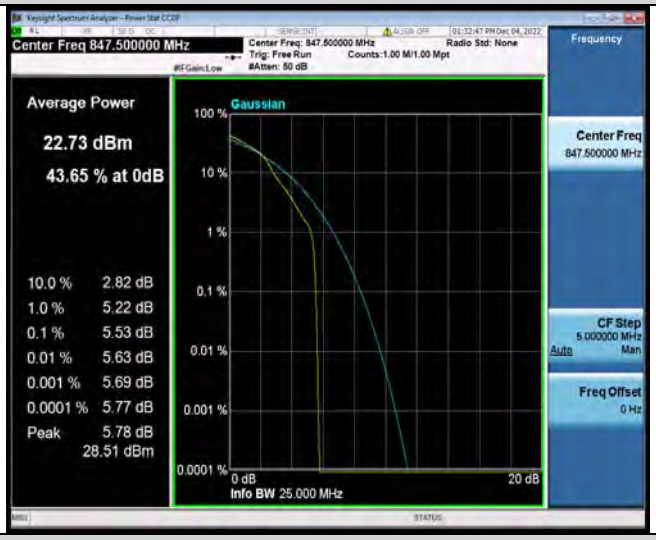

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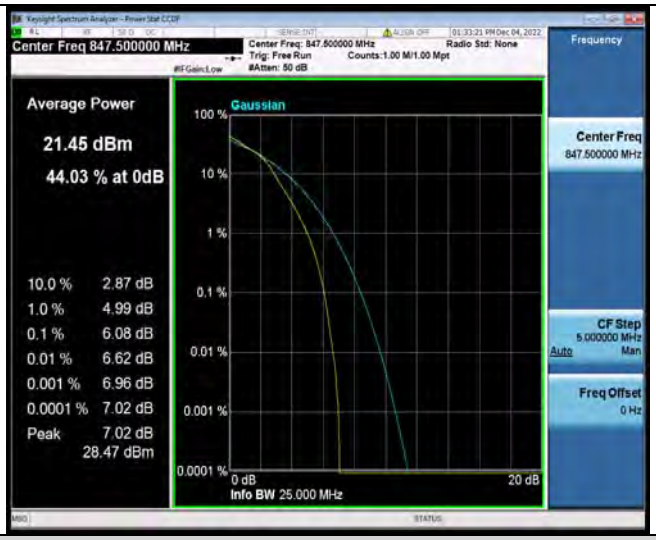

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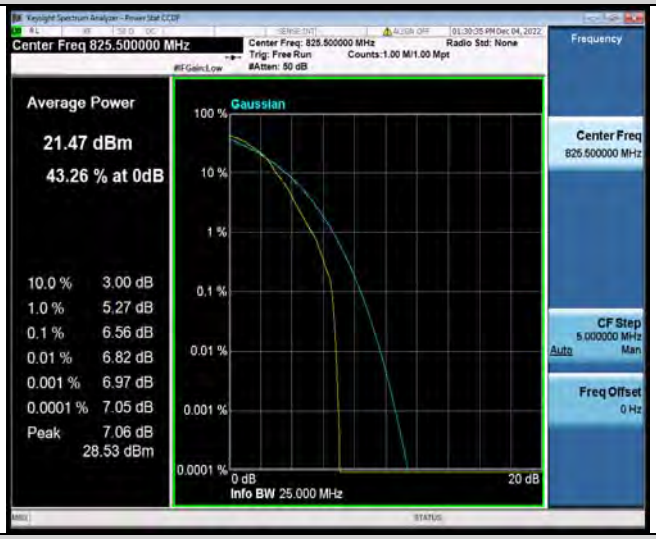

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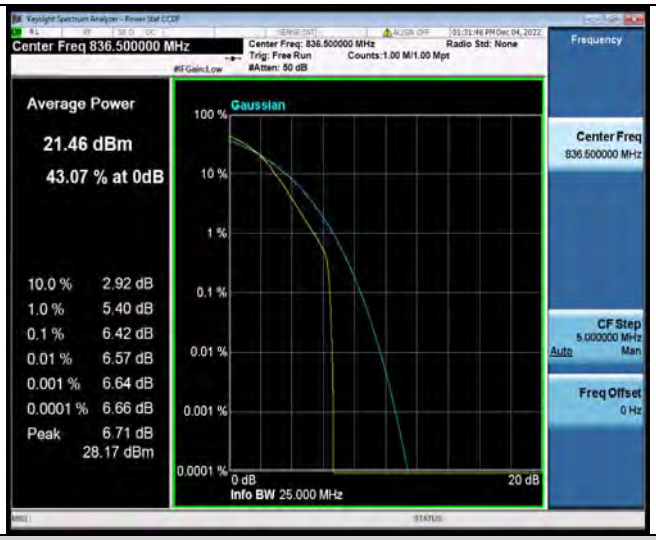

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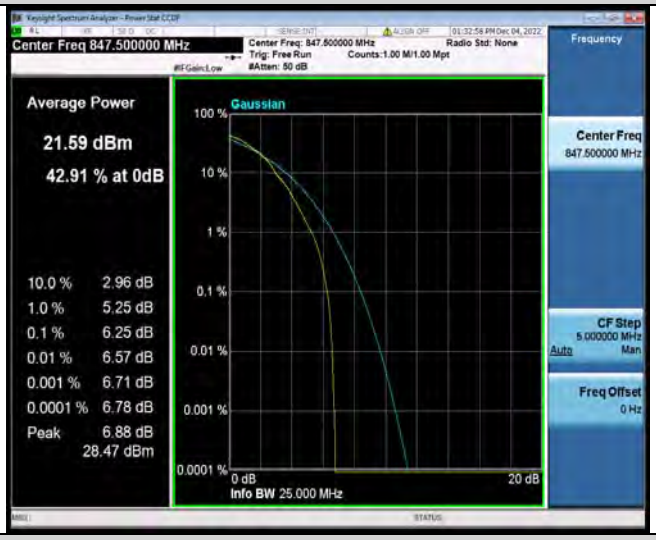

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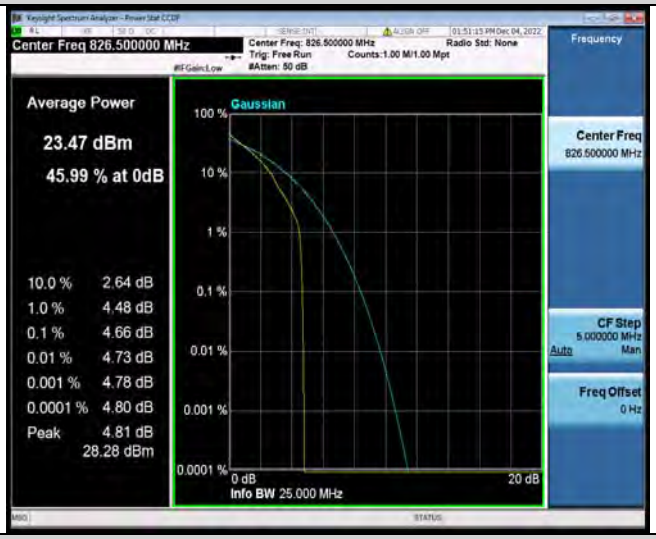

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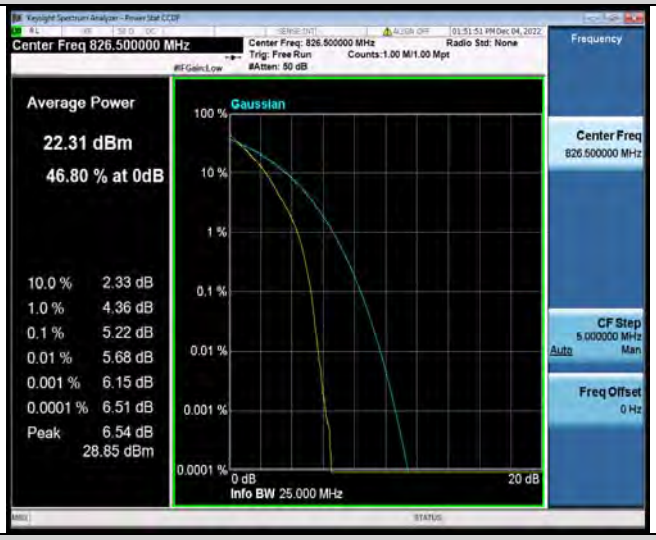

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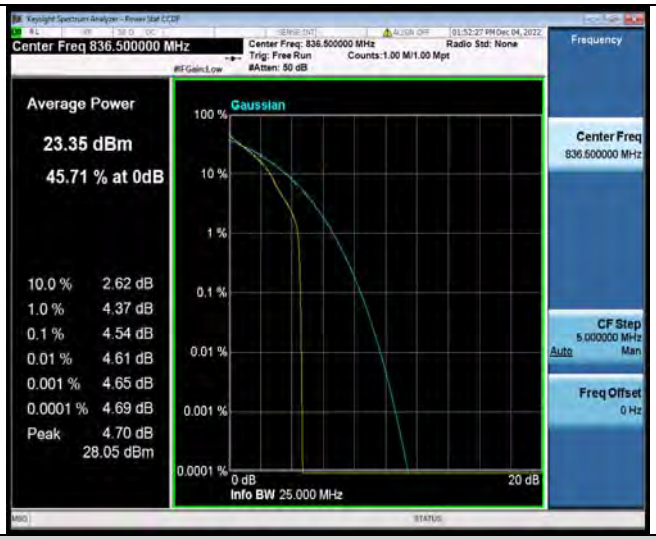

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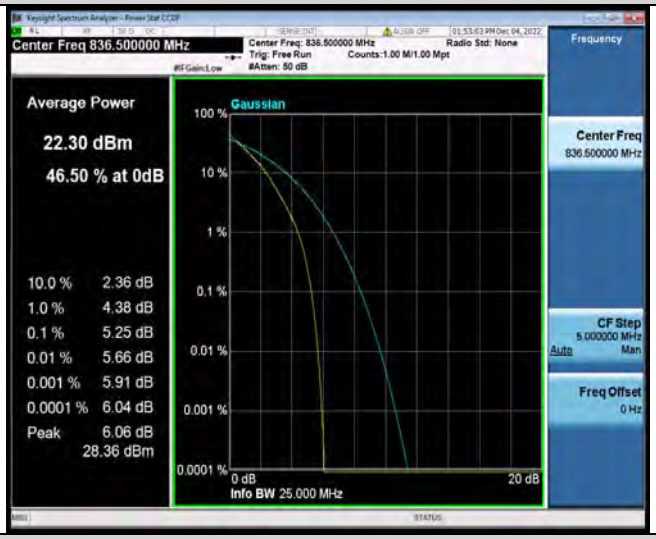

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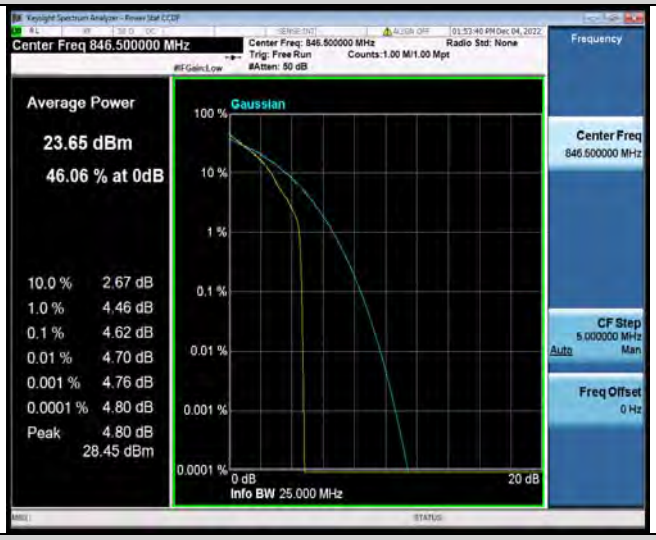

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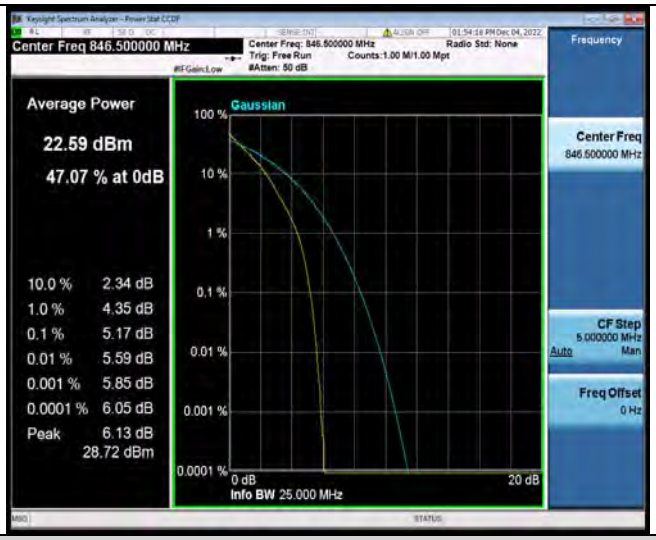

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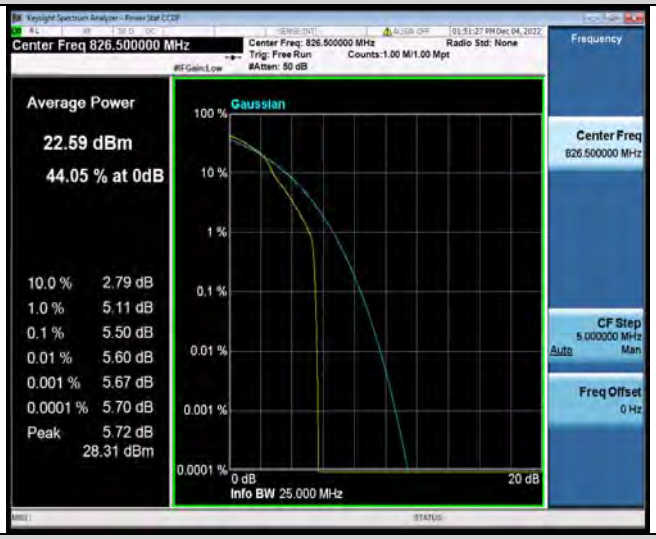

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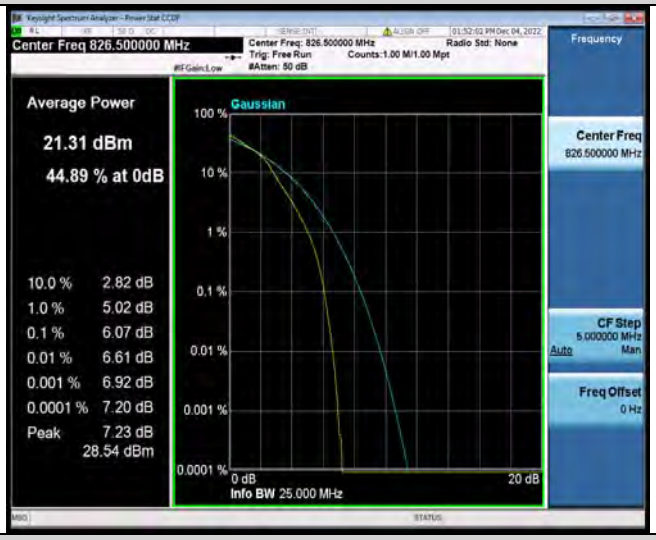

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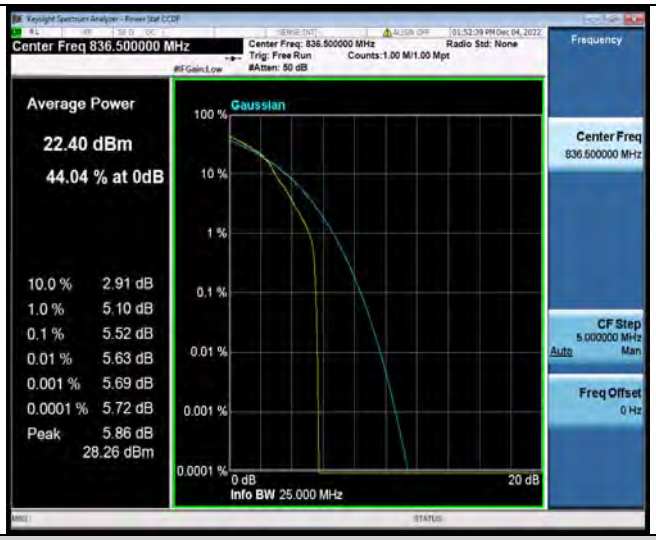

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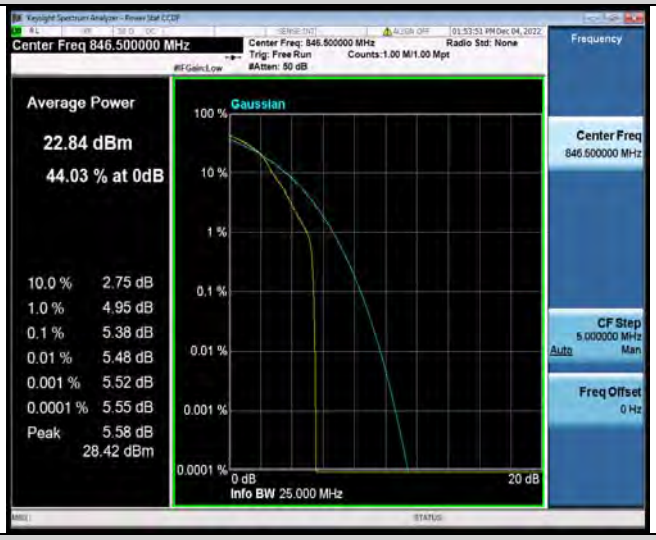

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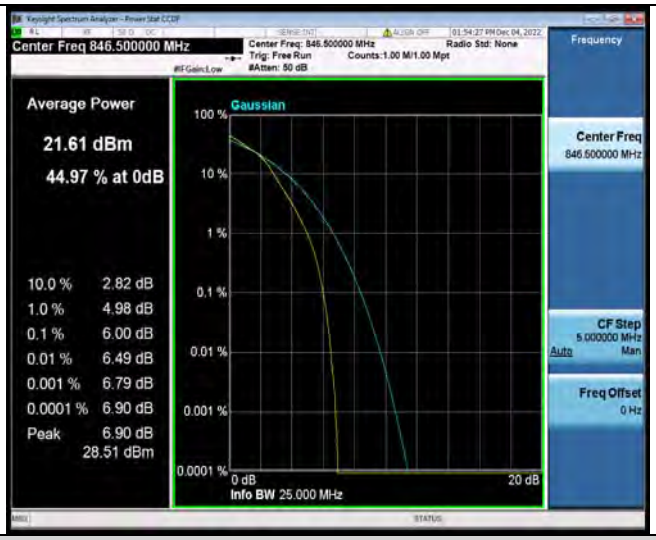

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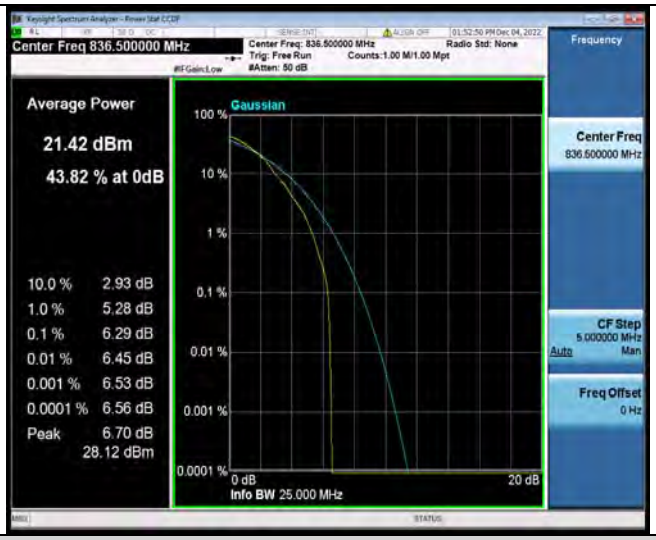

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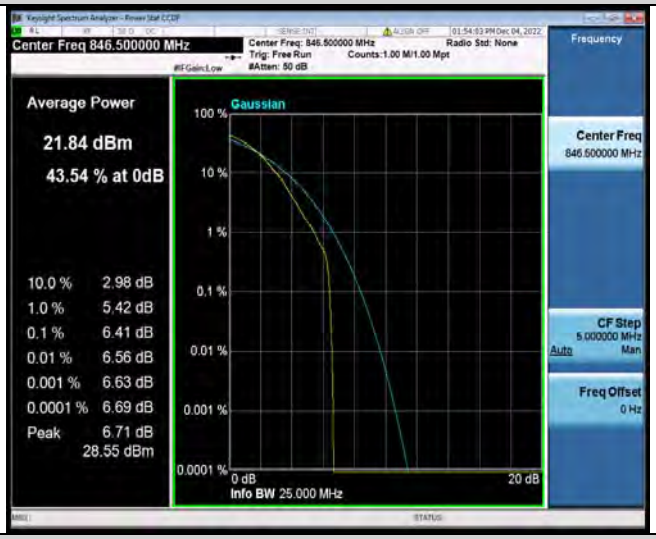

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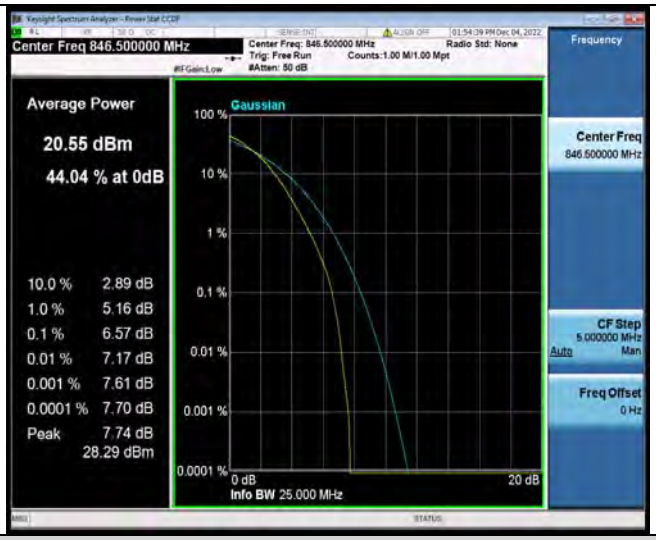

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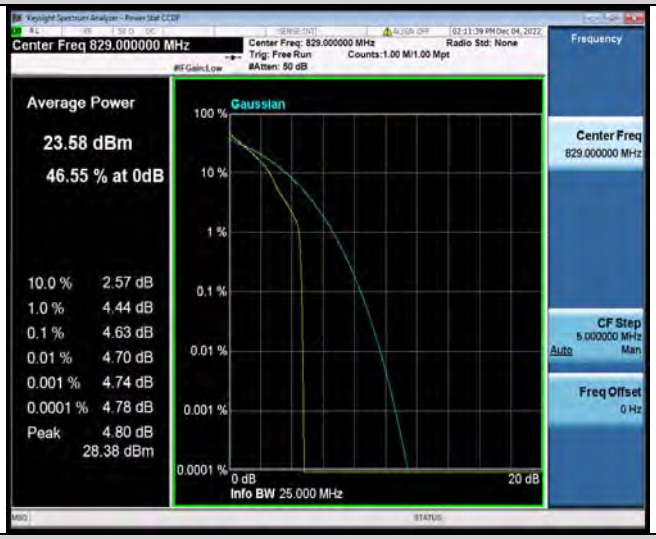

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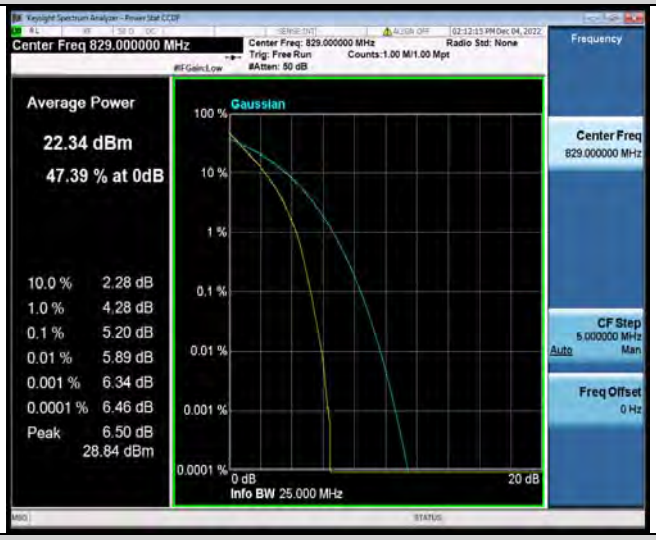

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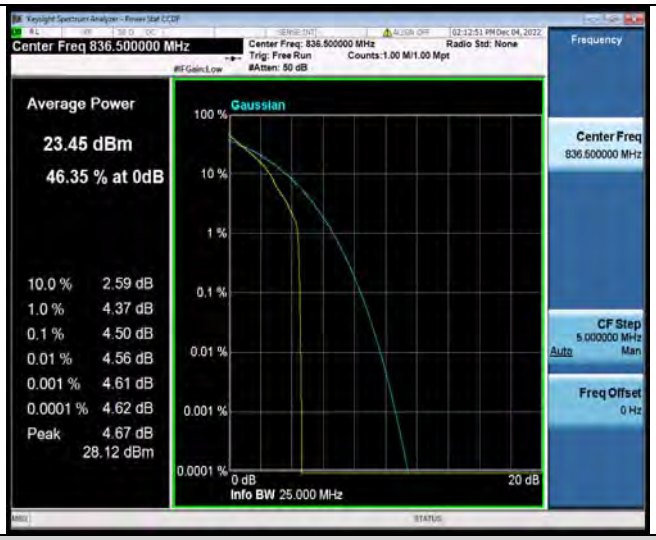

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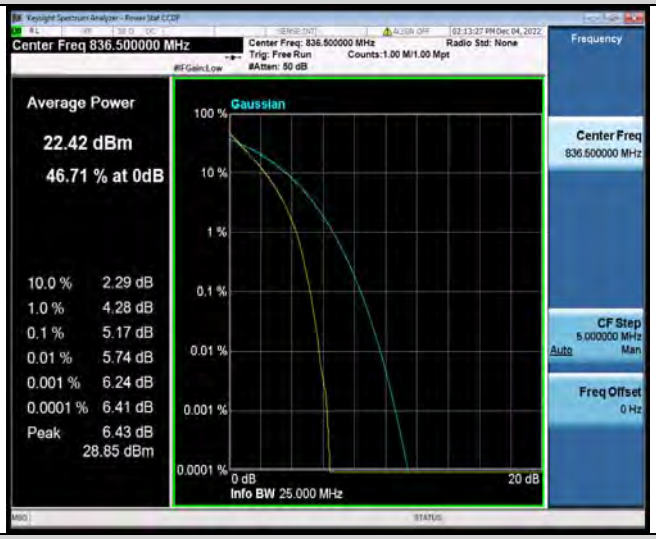

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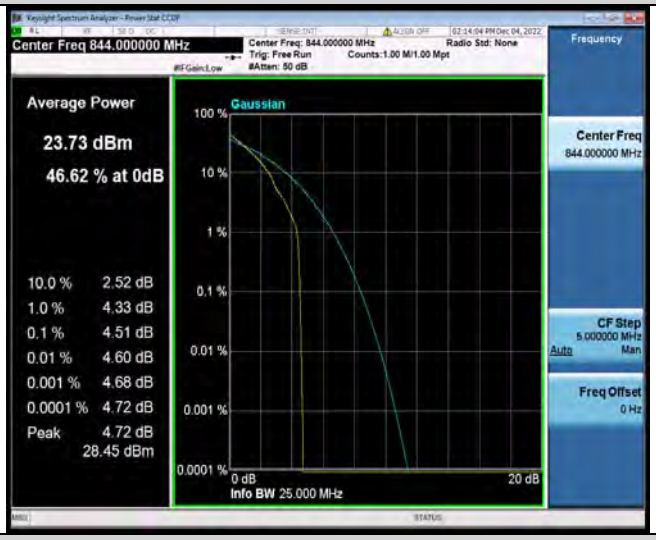
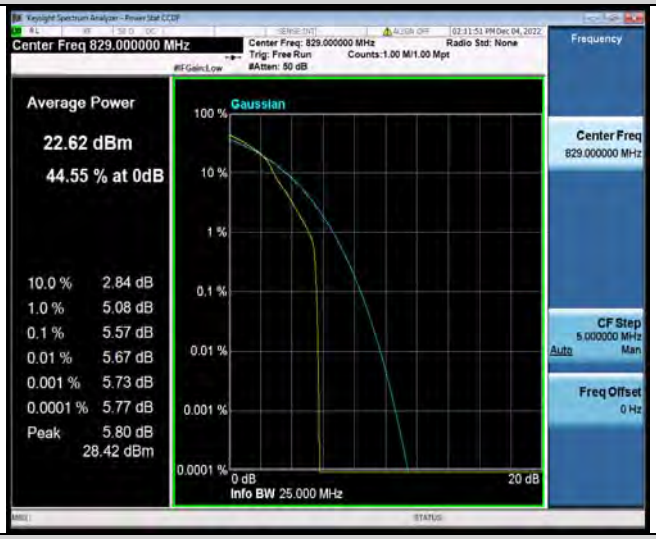


Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-1RB#0



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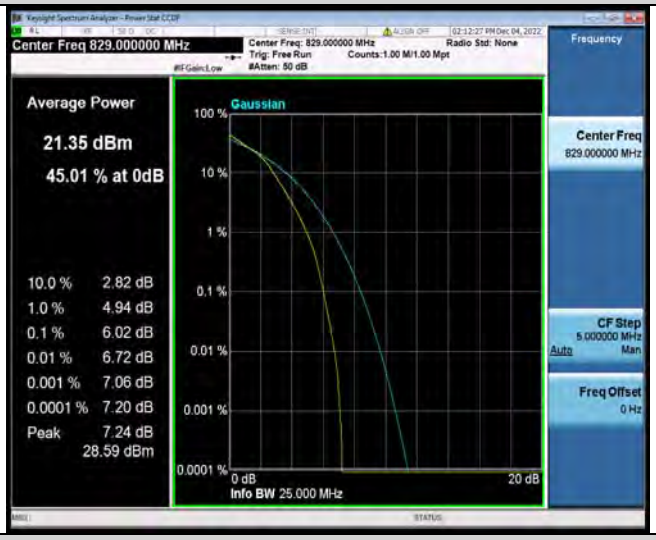

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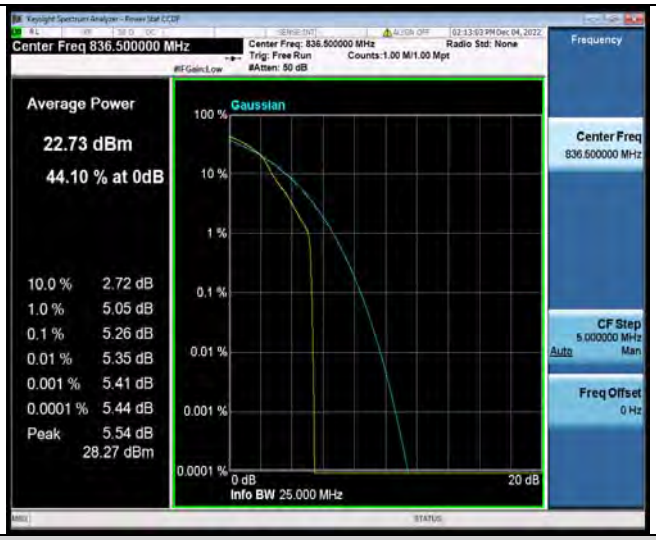

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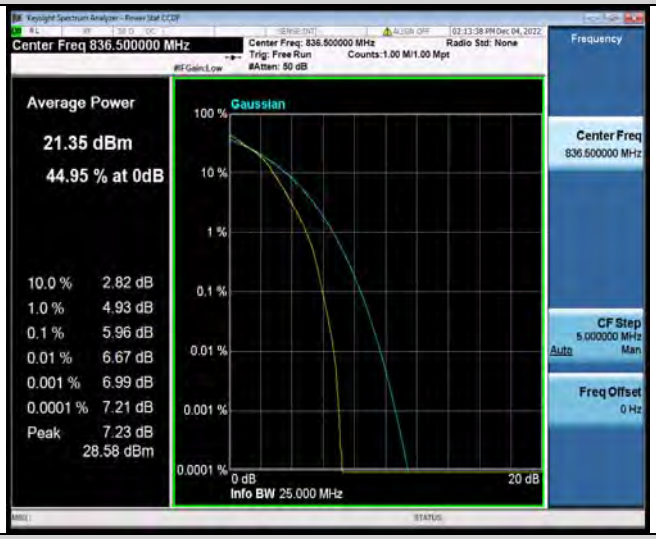

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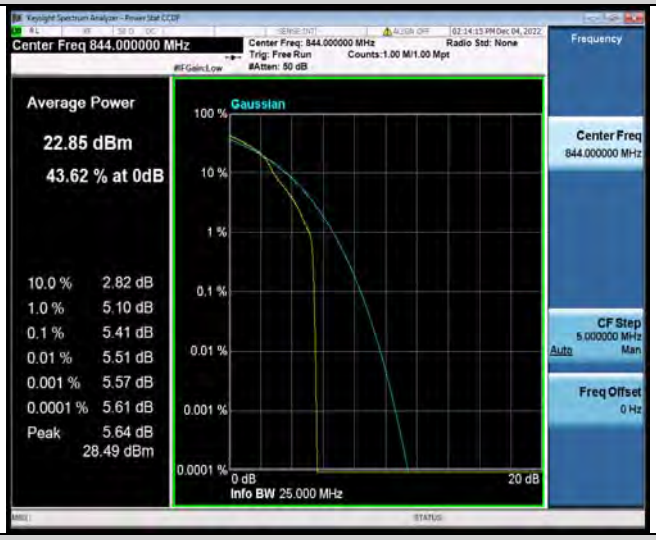

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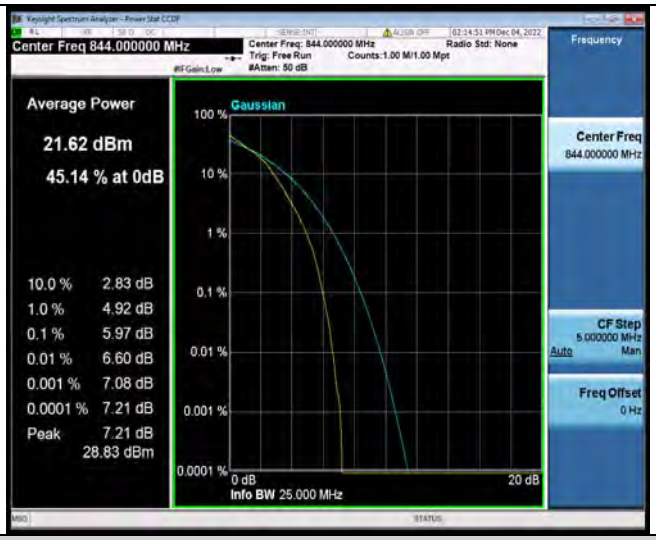

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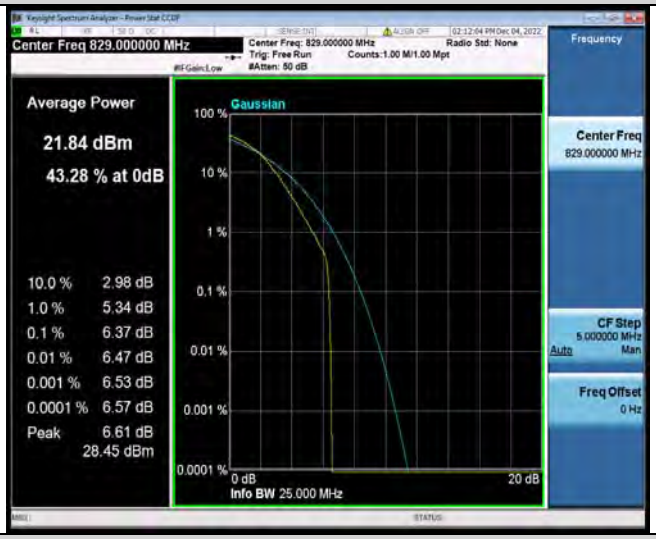
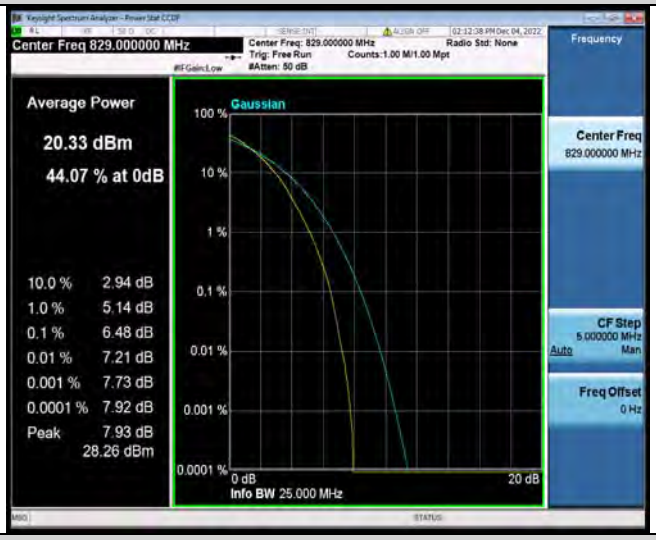
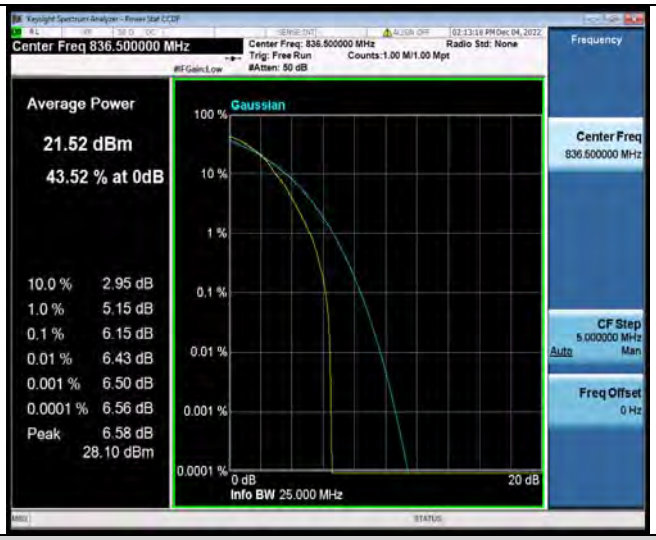


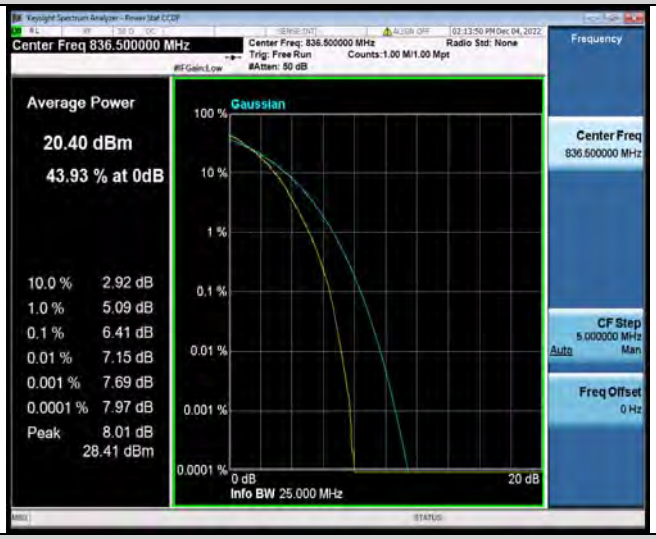
Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20525-1RB#0

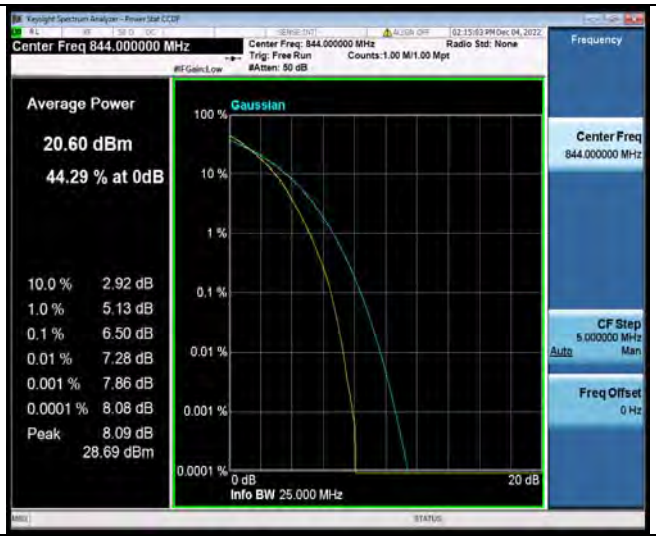


Band5-10MHz-64QAM-20525-50RB#0



Band5-10MHz-64QAM-20600-1RB#0

Band5-10MHz-64QAM-20600-50RB#0


Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
#Atten: 50 dB
Radio Std: None
Counts:1.00 M/1.00 Mpt
Frequency
Average Power
20.60 dBm
44.29 % at 0dB
10.0 % 2.92 dB
1.0 % 5.13 dB
0.1 % 6.50 dB
0.01 % 7.28 dB
0.001 % 7.86 dB
0.0001 % 8.08 dB
Peak 8.09 dB
28.69 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
844.000000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0918	1.255	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0905	1.249	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0877	1.248	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0871	1.266	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0883	1.238	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0892	1.254	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.0895	1.267	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.0947	1.261	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.0885	1.243	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6978	2.897	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6974	2.902	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6987	2.916	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6931	2.924	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6947	2.924	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6957	2.916	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.6959	2.913	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.6944	2.915	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.6952	2.892	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4950	4.907	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4988	4.861	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4991	4.815	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4954	4.862	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5005	4.878	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4978	4.859	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.4923	4.868	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.4940	4.845	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.4939	4.868	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9669	9.574	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9726	9.542	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9612	9.535	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9533	9.552	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9735	9.552	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9612	9.536	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.9467	9.514	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.9798	9.572	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.9598	9.549	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20525-6RB#0

Band5-1.4MHz-QPSK-20643-6RB#0

Band5-1.4MHz-16QAM-20407-6RB#0

Band5-1.4MHz-16QAM-20525-6RB#0

Band5-1.4MHz-16QAM-20643-6RB#0

Band5-1.4MHz-64QAM-20407-6RB#0

Band5-1.4MHz-64QAM-20525-6RB#0

Band5-1.4MHz-64QAM-20643-6RB#0

Band5-3MHz-QPSK-20415-15RB#0

Band5-3MHz-QPSK-20525-15RB#0

Band5-3MHz-QPSK-20635-15RB#0

Band5-3MHz-16QAM-20415-15RB#0

Band5-3MHz-16QAM-20525-15RB#0

Band5-3MHz-16QAM-20635-15RB#0

Band5-3MHz-64QAM-20415-15RB#0

Band5-3MHz-64QAM-20525-15RB#0

Band5-3MHz-64QAM-20635-15RB#0

Band5-5MHz-QPSK-20425-25RB#0

Band5-5MHz-QPSK-20525-25RB#0

Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-25RB#0

Band5-5MHz-16QAM-20525-25RB#0

Band5-5MHz-16QAM-20625-25RB#0

Band5-5MHz-64QAM-20425-25RB#0

Band5-5MHz-64QAM-20525-25RB#0

Band5-5MHz-64QAM-20625-25RB#0

Band5-10MHz-QPSK-20450-50RB#0

Band5-10MHz-QPSK-20525-50RB#0

Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20525-50RB#0

Band5-10MHz-16QAM-20600-50RB#0

Band5-10MHz-64QAM-20450-50RB#0

Band5-10MHz-64QAM-20525-50RB#0

Band5-10MHz-64QAM-20600-50RB#0


Center Freq 844.000000 MHz
Center Freq: 844.000000 MHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 12.61 dB
10 dB/div
Ref 35.00 dBm
Log
Center Freq
844.000000 MHz
Center 844 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
2.000000 MHz
Auto
Man
Occupied Bandwidth
8.9598 MHz
Total Power
21.5 dBm
Transmit Freq Error
-11.029 kHz
OBW Power
99.00 %
x dB Bandwidth
9.549 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-28.55	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-29.15	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-28.77	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-28.99	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-29.31	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-30.30	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-29.40	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-30.65	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	-31.00	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	-31.34	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	-30.39	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	-31.86	PASS
Band5	3MHz	QPSK	20415	1RB#0	-27.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	-26.51	PASS
Band5	3MHz	QPSK	20635	1RB#14	-27.67	PASS
Band5	3MHz	QPSK	20635	15RB#0	-26.33	PASS
Band5	3MHz	16QAM	20415	1RB#0	-28.60	PASS
Band5	3MHz	16QAM	20415	15RB#0	-27.79	PASS
Band5	3MHz	16QAM	20635	1RB#14	-28.15	PASS
Band5	3MHz	16QAM	20635	15RB#0	-28.26	PASS
Band5	3MHz	64QAM	20415	1RB#0	-29.79	PASS
Band5	3MHz	64QAM	20415	15RB#0	-28.84	PASS
Band5	3MHz	64QAM	20635	1RB#14	-29.99	PASS
Band5	3MHz	64QAM	20635	15RB#0	-29.89	PASS
Band5	5MHz	QPSK	20425	1RB#0	-29.65	PASS
Band5	5MHz	QPSK	20425	25RB#0	-26.38	PASS
Band5	5MHz	QPSK	20625	1RB#24	-29.63	PASS
Band5	5MHz	QPSK	20625	25RB#0	-27.02	PASS
Band5	5MHz	16QAM	20425	1RB#0	-30.53	PASS
Band5	5MHz	16QAM	20425	25RB#0	-27.85	PASS
Band5	5MHz	16QAM	20625	1RB#24	-30.83	PASS
Band5	5MHz	16QAM	20625	25RB#0	-26.74	PASS
Band5	5MHz	64QAM	20425	1RB#0	-31.74	PASS
Band5	5MHz	64QAM	20425	25RB#0	-29.11	PASS
Band5	5MHz	64QAM	20625	1RB#24	-32.43	PASS
Band5	5MHz	64QAM	20625	25RB#0	-29.10	PASS
Band5	10MHz	QPSK	20450	1RB#0	-43.10	PASS
Band5	10MHz	QPSK	20450	50RB#0	-29.36	PASS
Band5	10MHz	QPSK	20600	1RB#49	-43.18	PASS
Band5	10MHz	QPSK	20600	50RB#0	-29.00	PASS
Band5	10MHz	16QAM	20450	1RB#0	-44.54	PASS
Band5	10MHz	16QAM	20450	50RB#0	-31.06	PASS
Band5	10MHz	16QAM	20600	1RB#49	-42.56	PASS
Band5	10MHz	16QAM	20600	50RB#0	-30.77	PASS

Band5	10MHz	64QAM	20450	1RB#0	-45.44	PASS
Band5	10MHz	64QAM	20450	50RB#0	-33.00	PASS
Band5	10MHz	64QAM	20600	1RB#49	-44.90	PASS
Band5	10MHz	64QAM	20600	50RB#0	-32.46	PASS

Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0

Band5-1.4MHz-QPSK-20407-6RB#0

Band5-1.4MHz-QPSK-20643-1RB#5

Band5-1.4MHz-QPSK-20643-6RB#0

Band5-1.4MHz-16QAM-20407-1RB#0

Band5-1.4MHz-16QAM-20407-6RB#0

Band5-1.4MHz-16QAM-20643-1RB#5

Band5-1.4MHz-16QAM-20643-6RB#0

Band5-1.4MHz-64QAM-20407-1RB#0

Band5-1.4MHz-64QAM-20407-6RB#0

Band5-1.4MHz-64QAM-20643-1RB#5

Band5-1.4MHz-64QAM-20643-6RB#0

Band5-3MHz-QPSK-20415-1RB#0

Band5-3MHz-QPSK-20415-15RB#0

Band5-3MHz-QPSK-20635-1RB#14

Band5-3MHz-QPSK-20635-15RB#0

Band5-3MHz-16QAM-20415-1RB#0

Band5-3MHz-16QAM-20415-15RB#0

Band5-3MHz-16QAM-20635-1RB#14

Band5-3MHz-16QAM-20635-15RB#0

Band5-3MHz-64QAM-20415-1RB#0

Band5-3MHz-64QAM-20415-15RB#0

Band5-3MHz-64QAM-20635-1RB#14

Band5-3MHz-64QAM-20635-15RB#0

Band5-5MHz-QPSK-20425-1RB#0

Band5-5MHz-QPSK-20425-25RB#0

Band5-5MHz-QPSK-20625-1RB#24

Band5-5MHz-QPSK-20625-25RB#0

Band5-5MHz-16QAM-20425-1RB#0

Band5-5MHz-16QAM-20425-25RB#0

Band5-5MHz-16QAM-20625-1RB#24

Band5-5MHz-16QAM-20625-25RB#0

Band5-5MHz-64QAM-20425-1RB#0

Band5-5MHz-64QAM-20425-25RB#0

Band5-5MHz-64QAM-20625-1RB#24

Band5-5MHz-64QAM-20625-25RB#0

Band5-10MHz-QPSK-20450-1RB#0

Band5-10MHz-QPSK-20450-50RB#0

Band5-10MHz-QPSK-20600-1RB#49

Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-1RB#0

Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20600-1RB#49

Band5-10MHz-16QAM-20600-50RB#0

Band5-10MHz-64QAM-20450-1RB#0

Band5-10MHz-64QAM-20450-50RB#0

Band5-10MHz-64QAM-20600-1RB#49

Band5-10MHz-64QAM-20600-50RB#0


Center Freq 849.000000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 30/30
Ref Offset 12.61 dB
10 dB/div
Ref 32.61 dBm
Mkr1 849.010 MHz
-32.463 dBm
Center 849.000 MHz
#Res BW 200 kHz
#VBW 620 kHz*
Span 2.000 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
849.000000 MHz
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

CONDUCTED SPURIOUS EMISSION

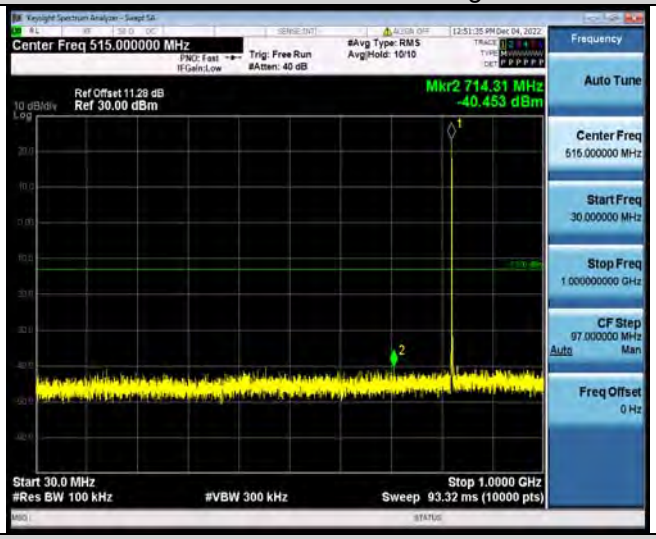
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	Range1:30~1000MHz	-40.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	Range2:1000~10000MHz	-33.71	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-40.2	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-33.44	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range1:30~1000MHz	-40.32	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	Range2:1000~10000MHz	-34.15	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range1:30~1000MHz	-40.14	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	Range2:1000~10000MHz	-34.65	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-40.12	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-34.19	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range1:30~1000MHz	-40.11	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	Range2:1000~10000MHz	-34.64	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	Range1:30~1000MHz	-40.58	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	Range2:1000~10000MHz	-34.46	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-40.46	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	Range2:1000~10000MHz	-34.19	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	Range1:30~1000MHz	-39.92	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	Range2:1000~10000MHz	-34.5	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range1:30~1000MHz	-40.21	PASS
Band5	3MHz	QPSK	20415	1RB#0	Range2:1000~10000MHz	-33.67	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-40.35	PASS
Band5	3MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-34.49	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range1:30~1000MHz	-40.48	PASS
Band5	3MHz	QPSK	20635	1RB#0	Range2:1000~10000MHz	-33.79	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range1:30~1000MHz	-40.37	PASS
Band5	3MHz	16QAM	20415	1RB#0	Range2:1000~10000MHz	-34.51	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-40.31	PASS
Band5	3MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-34.64	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range1:30~1000MHz	-40.82	PASS
Band5	3MHz	16QAM	20635	1RB#0	Range2:1000~10000MHz	-33.86	PASS
Band5	3MHz	64QAM	20415	1RB#0	Range1:30~1000MHz	-40.49	PASS
Band5	3MHz	64QAM	20415	1RB#0	Range2:1000~10000MHz	-34.28	PASS
Band5	3MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-40.2	PASS
Band5	3MHz	64QAM	20525	1RB#0	Range2:1000~10000MHz	-34.19	PASS
Band5	3MHz	64QAM	20635	1RB#0	Range1:30~1000MHz	-39.71	PASS
Band5	3MHz	64QAM	20635	1RB#0	Range2:1000~10000MHz	-34.43	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range1:30~1000MHz	-40.46	PASS
Band5	5MHz	QPSK	20425	1RB#0	Range2:1000~10000MHz	-34.59	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-39.57	PASS
Band5	5MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-34.38	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range1:30~1000MHz	-39.52	PASS
Band5	5MHz	QPSK	20625	1RB#0	Range2:1000~10000MHz	-33.7	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range1:30~1000MHz	-40.66	PASS
Band5	5MHz	16QAM	20425	1RB#0	Range2:1000~10000MHz	-32.43	PASS

Band5	5MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-40.67	PASS
Band5	5MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-34.33	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range1:30~1000MHz	-40.57	PASS
Band5	5MHz	16QAM	20625	1RB#0	Range2:1000~10000MHz	-34.18	PASS
Band5	5MHz	64QAM	20425	1RB#0	Range1:30~1000MHz	-40.65	PASS
Band5	5MHz	64QAM	20425	1RB#0	Range2:1000~10000MHz	-34.57	PASS
Band5	5MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-39.95	PASS
Band5	5MHz	64QAM	20525	1RB#0	Range2:1000~10000MHz	-34.03	PASS
Band5	5MHz	64QAM	20625	1RB#0	Range1:30~1000MHz	-40.28	PASS
Band5	5MHz	64QAM	20625	1RB#0	Range2:1000~10000MHz	-35.03	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range1:30~1000MHz	-40.66	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:1000~10000MHz	-34.38	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-39.79	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-34.56	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:30~1000MHz	-39.5	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:1000~10000MHz	-33.7	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:30~1000MHz	-39.74	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range2:1000~10000MHz	-34.29	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-40.67	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-33.07	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range1:30~1000MHz	-40.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range2:1000~10000MHz	-34.69	PASS
Band5	10MHz	64QAM	20450	1RB#0	Range1:30~1000MHz	-39.76	PASS
Band5	10MHz	64QAM	20450	1RB#0	Range2:1000~10000MHz	-33.86	PASS
Band5	10MHz	64QAM	20525	1RB#0	Range1:30~1000MHz	-40.32	PASS
Band5	10MHz	64QAM	20525	1RB#0	Range2:1000~10000MHz	-34.69	PASS
Band5	10MHz	64QAM	20600	1RB#0	Range1:30~1000MHz	-40.25	PASS
Band5	10MHz	64QAM	20600	1RB#0	Range2:1000~10000MHz	-34.92	PASS

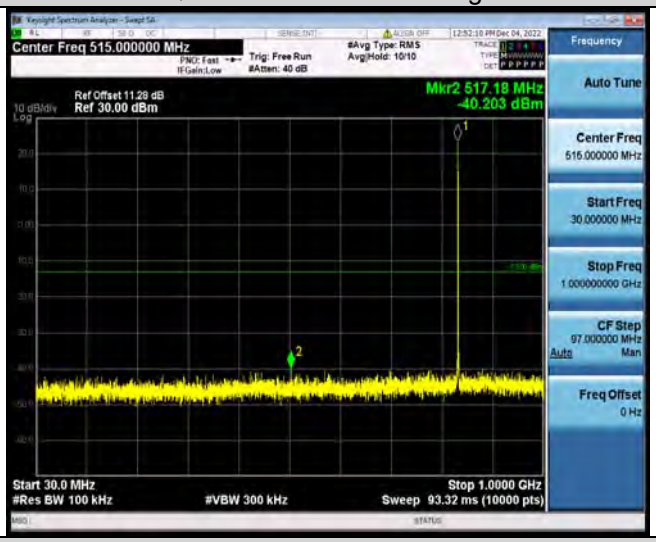
Test Graphs

Band5-1.4MHz-QPSK-20407-1RB#0-Range1:30~1000MHz

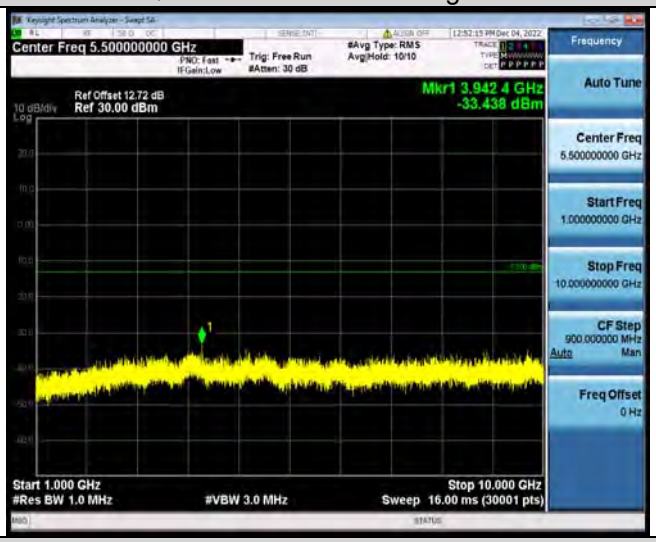


Band5-1.4MHz-QPSK-20407-1RB#0-Range2:1000~10000MHz

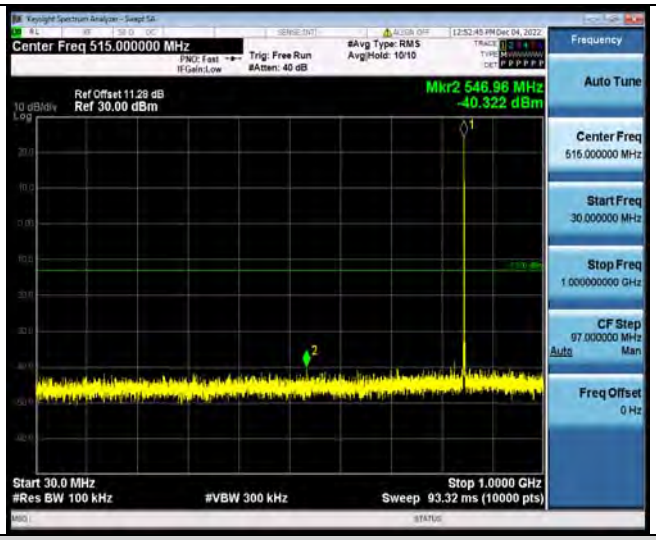
Band5-1.4MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



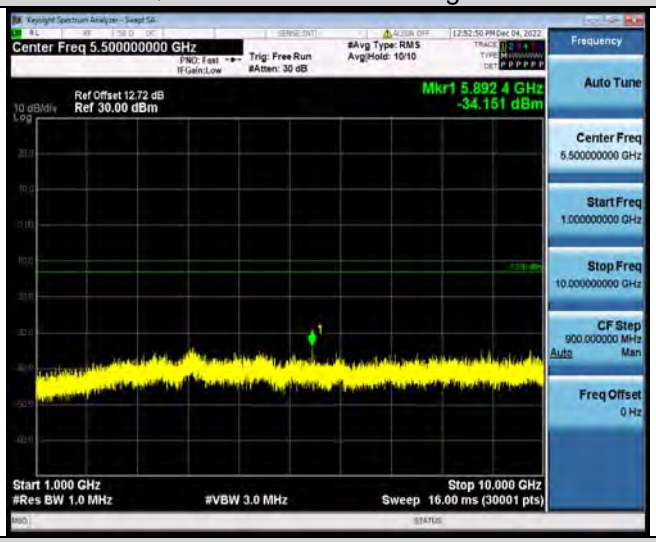
Band5-1.4MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



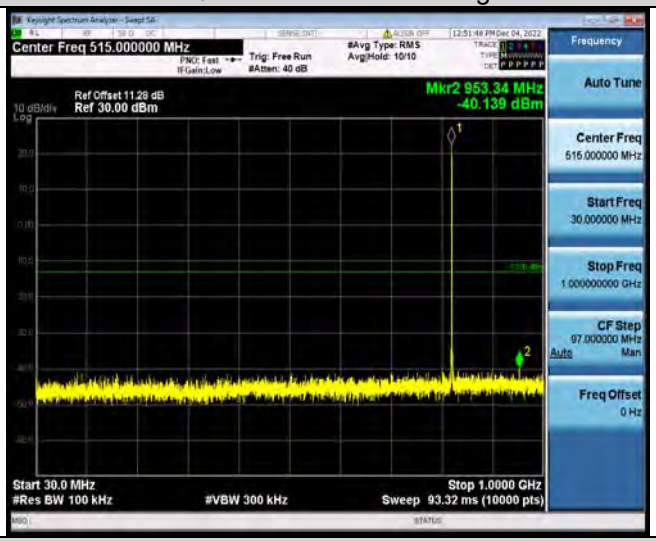
Band5-1.4MHz-QPSK-20643-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-QPSK-20643-1RB#0-Range2:1000~10000MHz

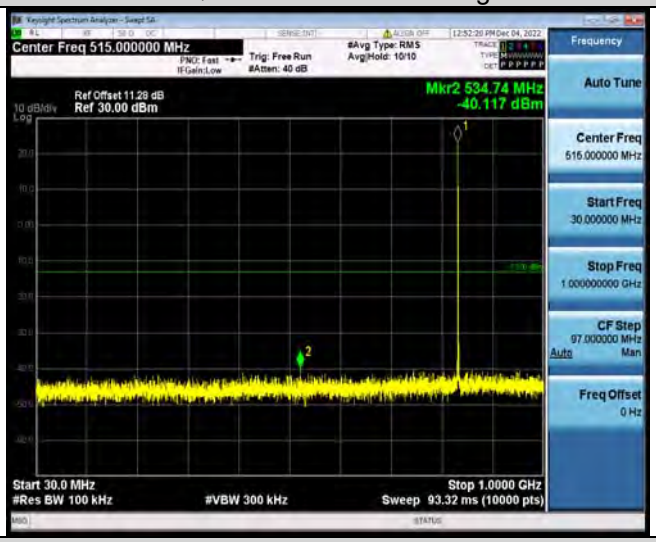


Band5-1.4MHz-16QAM-20407-1RB#0-Range1:30~1000MHz

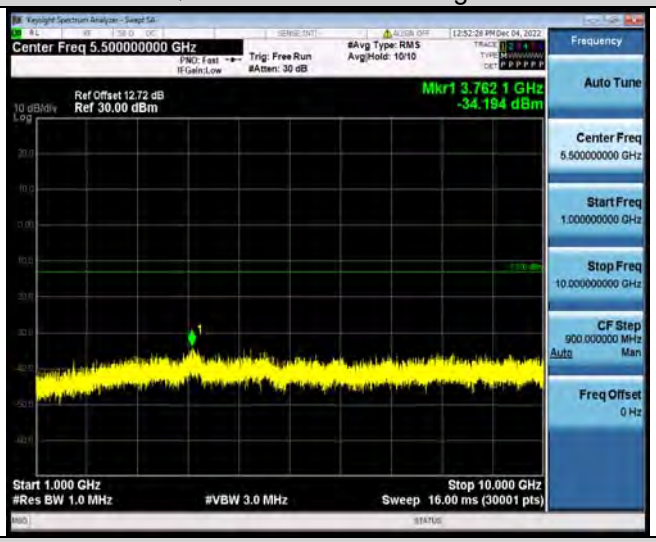


Band5-1.4MHz-16QAM-20407-1RB#0-Range2:1000~10000MHz

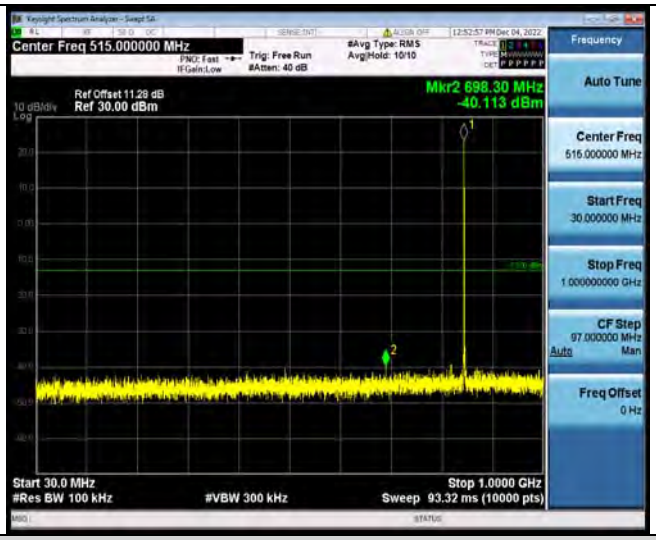
Band5-1.4MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



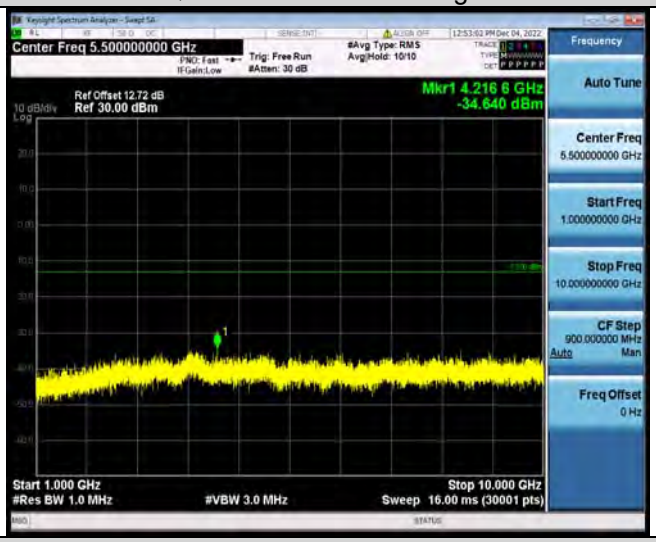
Band5-1.4MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



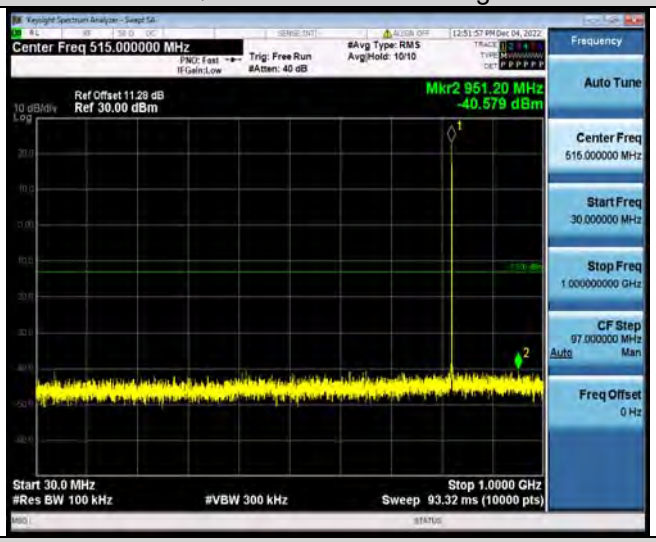
Band5-1.4MHz-16QAM-20643-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-16QAM-20643-1RB#0-Range2:1000~10000MHz

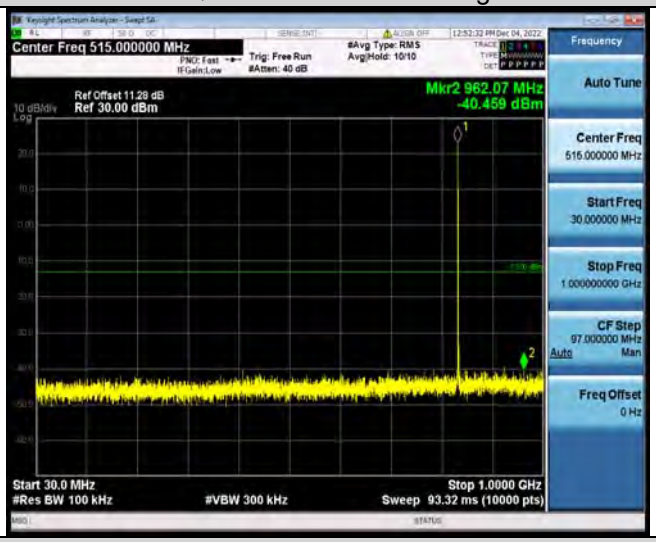


Band5-1.4MHz-64QAM-20407-1RB#0-Range1:30~1000MHz

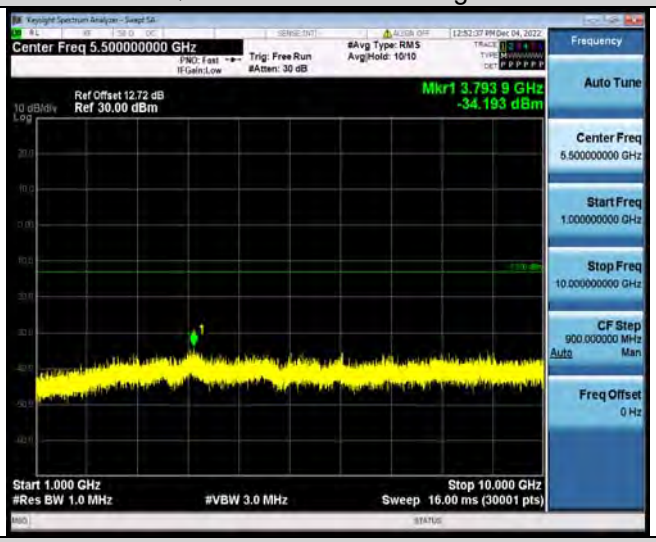


Band5-1.4MHz-64QAM-20407-1RB#0-Range2:1000~10000MHz

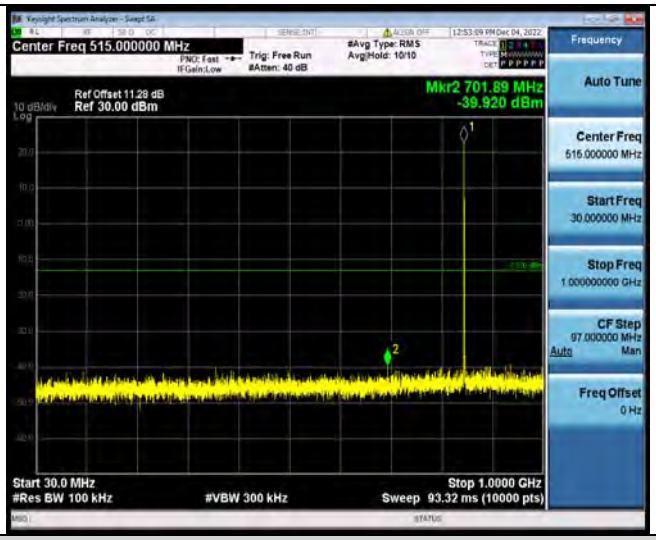
Band5-1.4MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



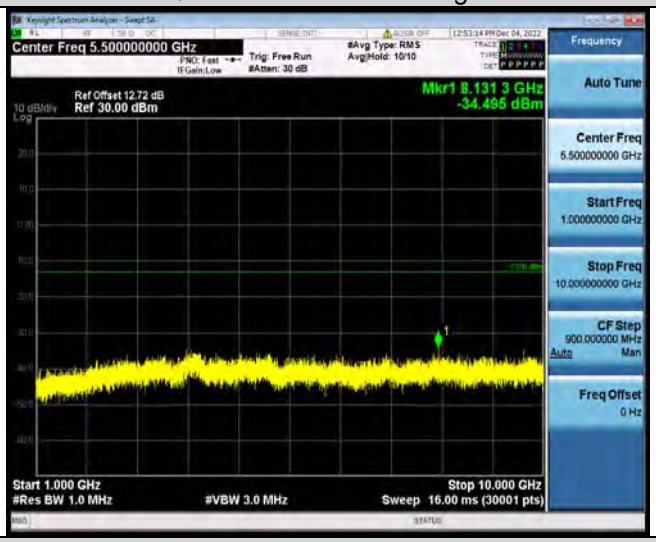
Band5-1.4MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz



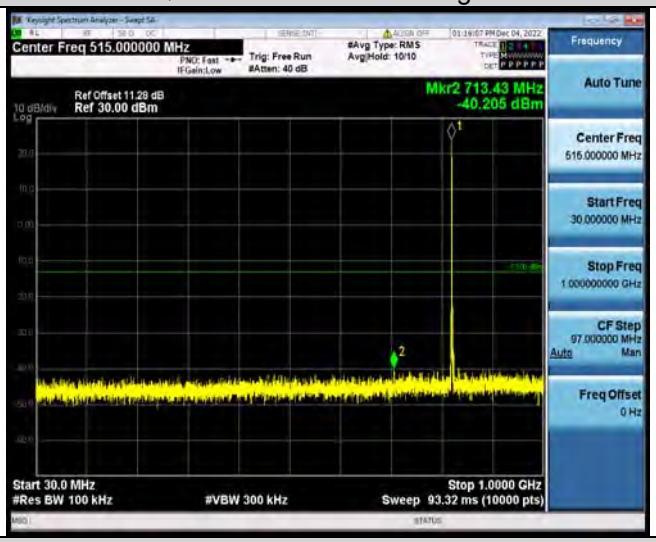
Band5-1.4MHz-64QAM-20643-1RB#0-Range1:30~1000MHz



Band5-1.4MHz-64QAM-20643-1RB#0-Range2:1000~10000MHz

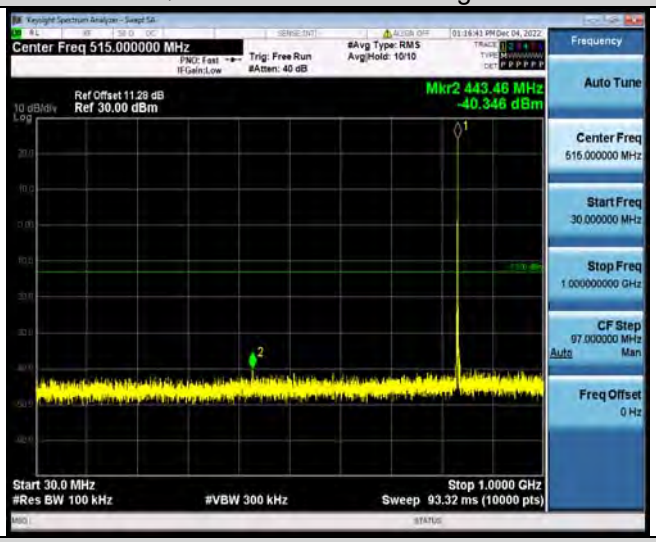


Band5-3MHz-QPSK-20415-1RB#0-Range1:30~1000MHz

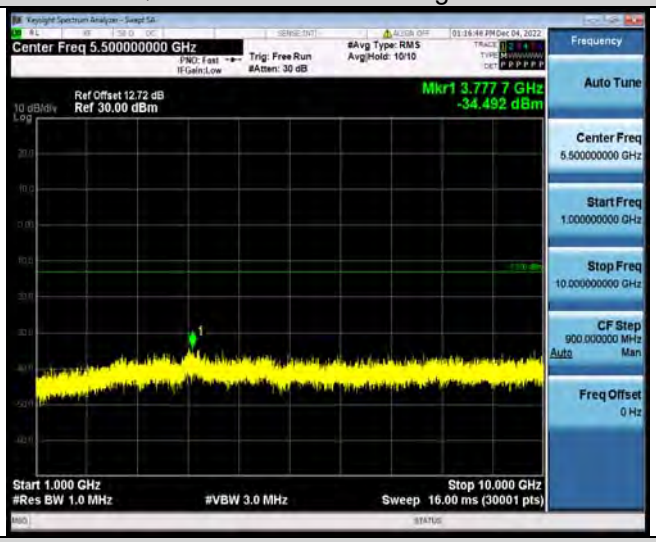


Band5-3MHz-QPSK-20415-1RB#0-Range2:1000~10000MHz

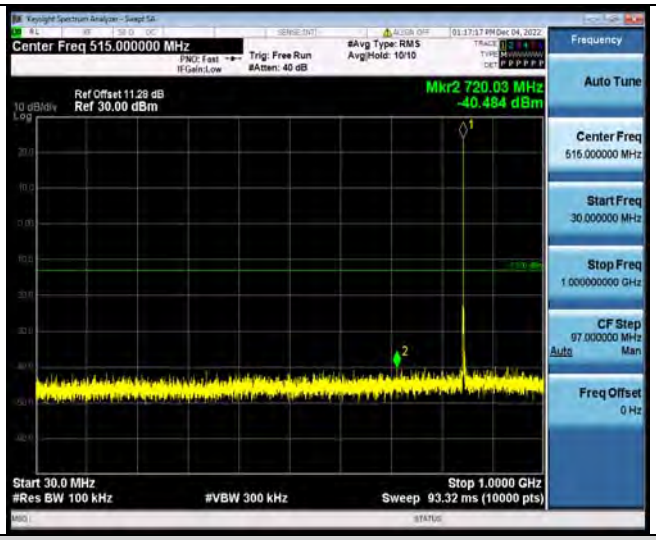
Band5-3MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



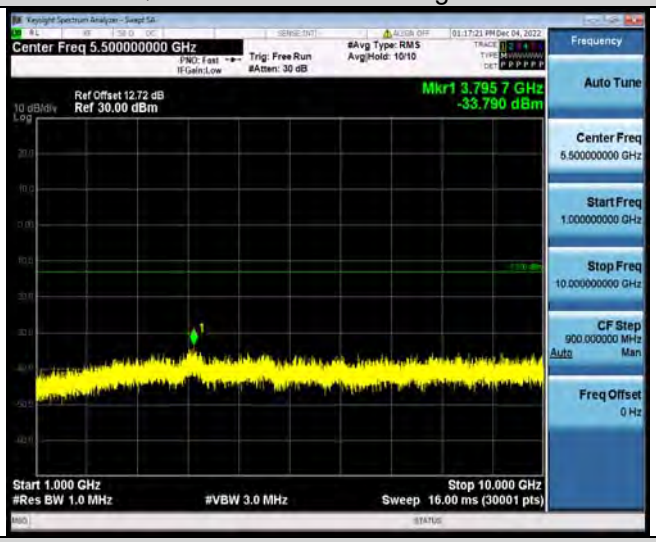
Band5-3MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



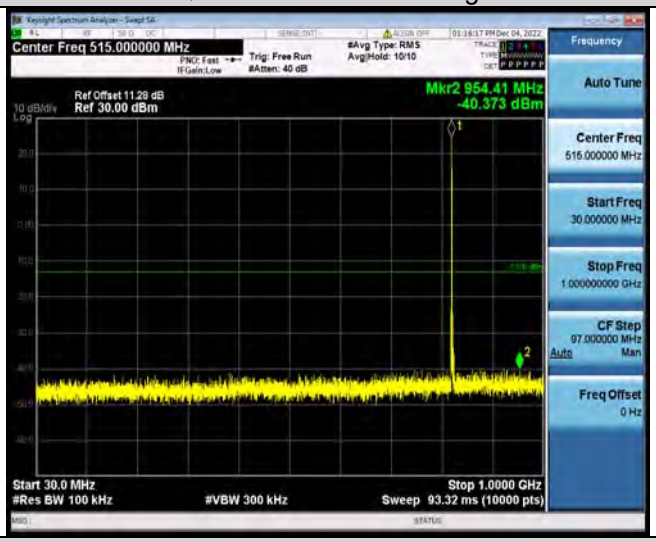
Band5-3MHz-QPSK-20635-1RB#0-Range1:30~1000MHz



Band5-3MHz-QPSK-20635-1RB#0-Range2:1000~10000MHz

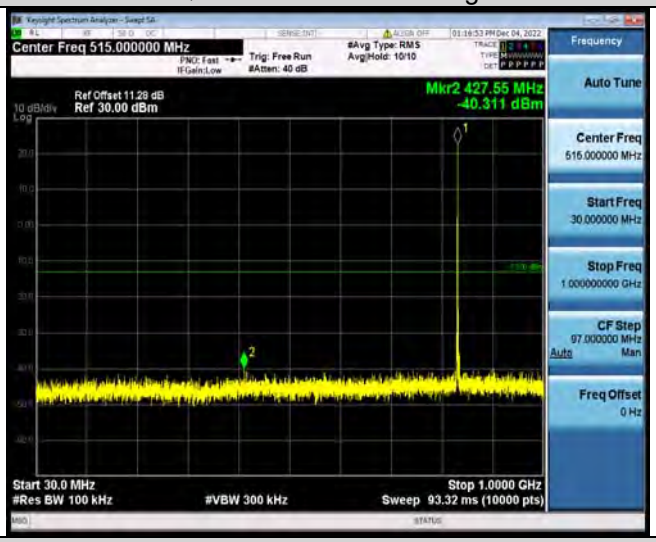


Band5-3MHz-16QAM-20415-1RB#0-Range1:30~1000MHz

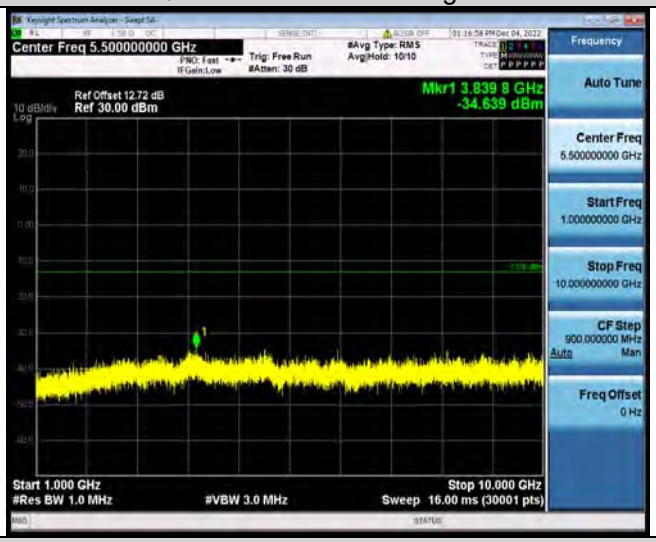


Band5-3MHz-16QAM-20415-1RB#0-Range2:1000~10000MHz

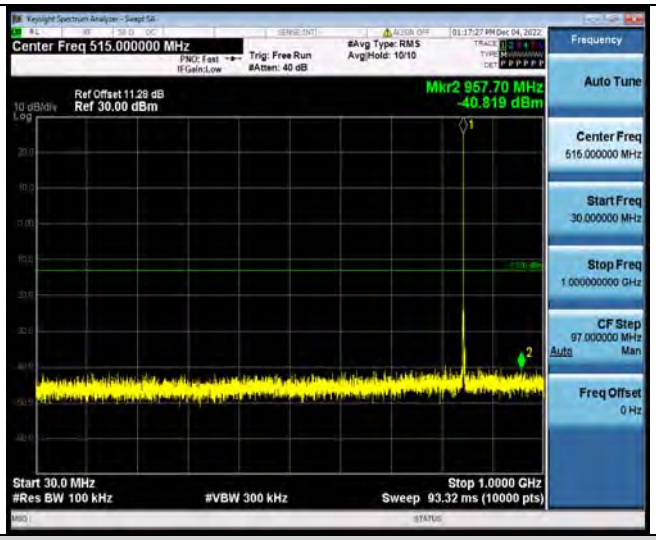
Band5-3MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



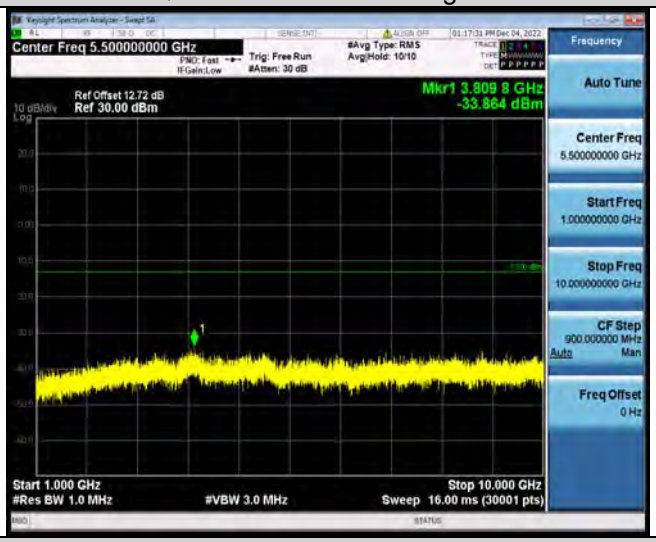
Band5-3MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



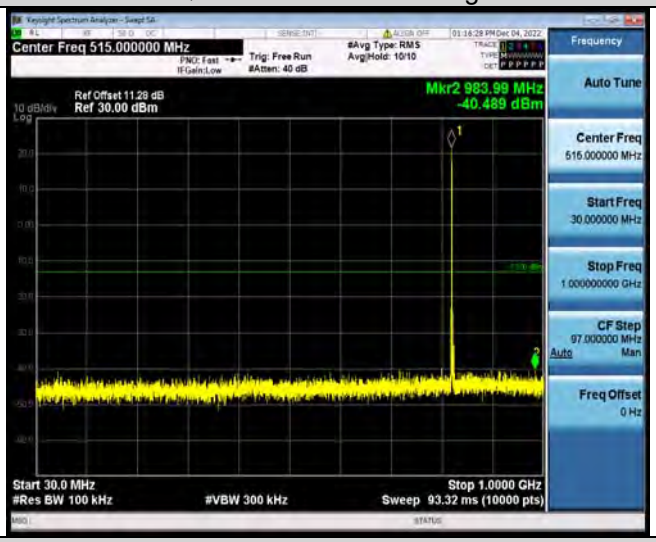
Band5-3MHz-16QAM-20635-1RB#0-Range1:30~1000MHz



Band5-3MHz-16QAM-20635-1RB#0-Range2:1000~10000MHz

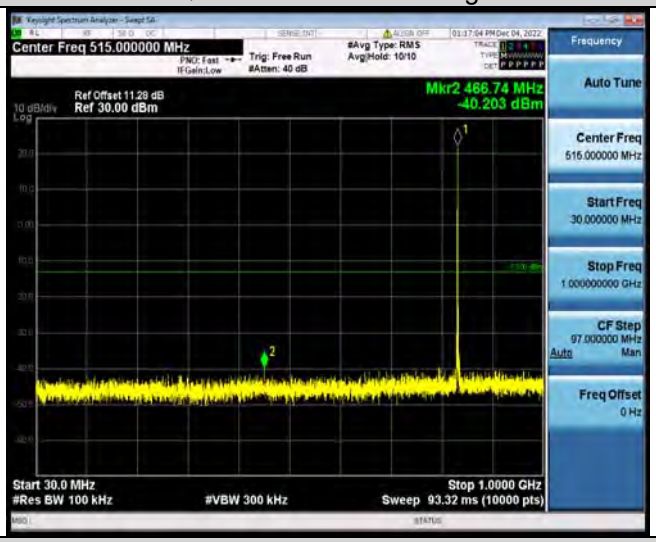


Band5-3MHz-64QAM-20415-1RB#0-Range1:30~1000MHz

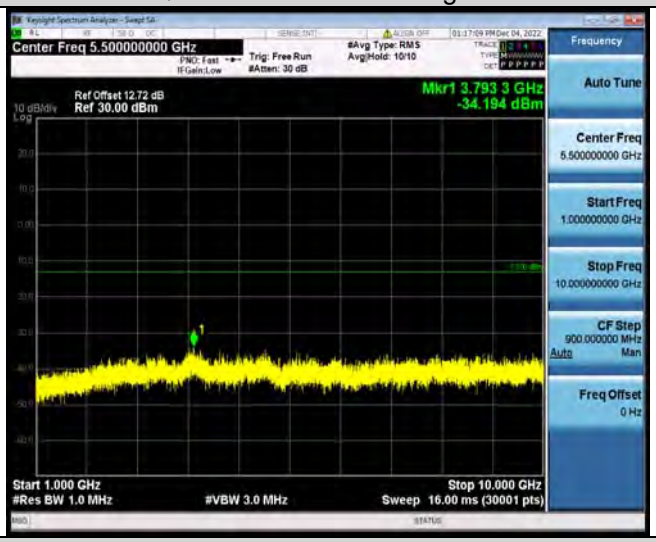


Band5-3MHz-64QAM-20415-1RB#0-Range2:1000~10000MHz

Band5-3MHz-64QAM-20525-1RB#0-Range1:30~1000MHz

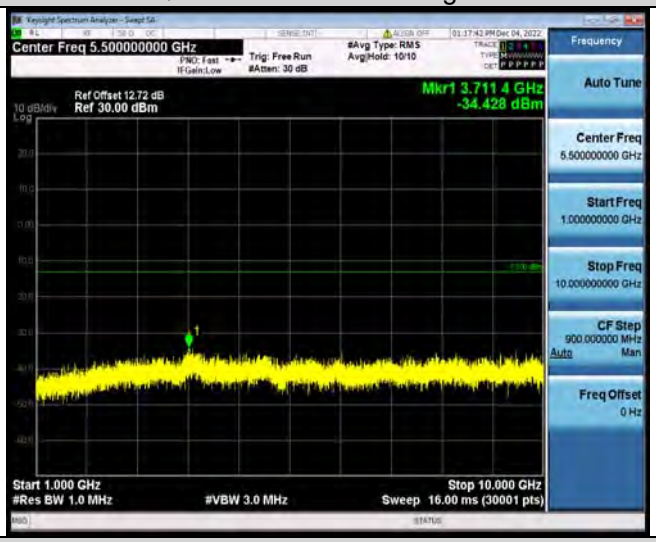


Band5-3MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz

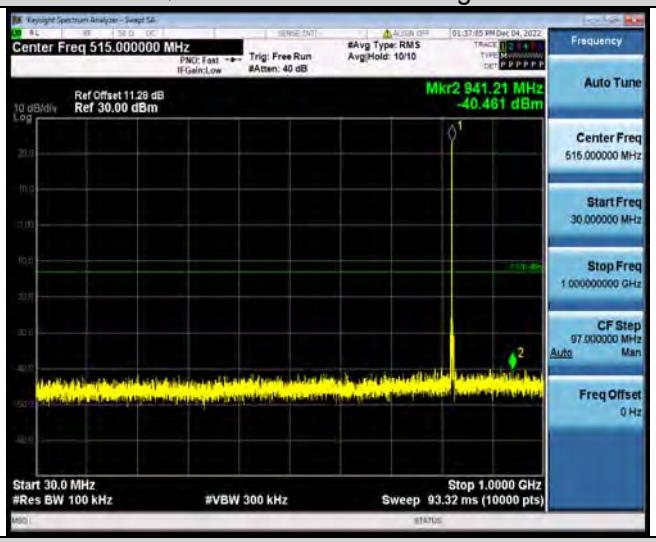


Band5-3MHz-64QAM-20635-1RB#0-Range1:30~1000MHz

Band5-3MHz-64QAM-20635-1RB#0-Range2:1000~10000MHz

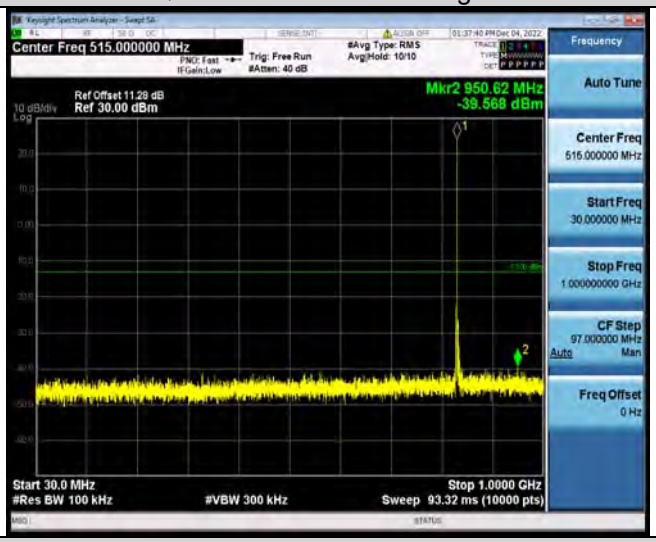


Band5-5MHz-QPSK-20425-1RB#0-Range1:30~1000MHz

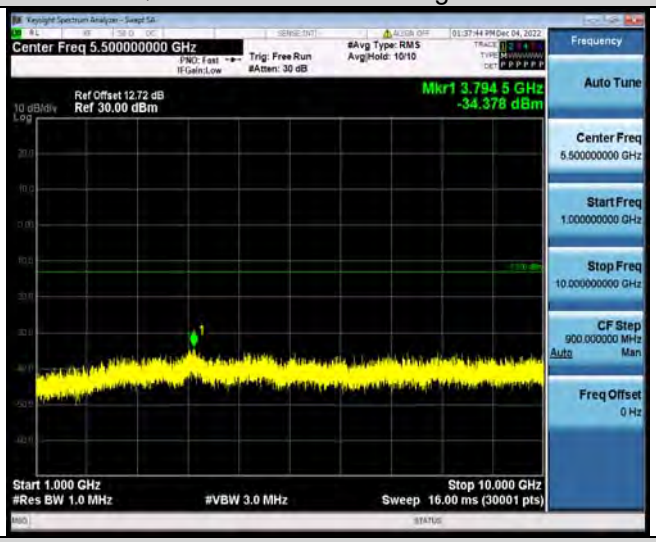


Band5-5MHz-QPSK-20425-1RB#0-Range2:1000~10000MHz

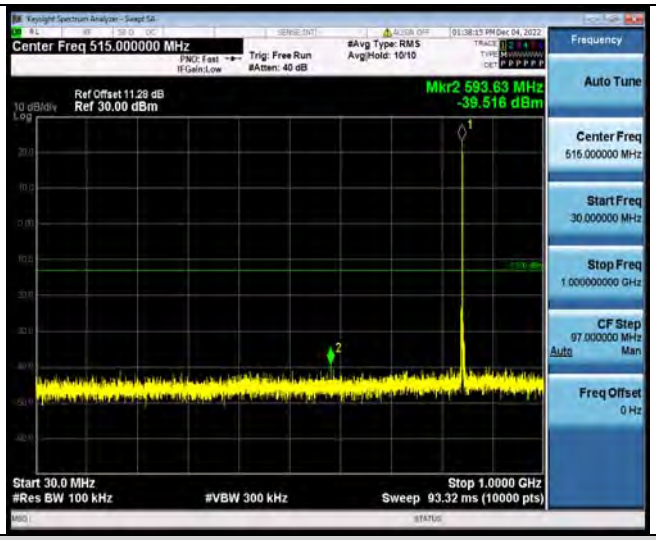
Band5-5MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



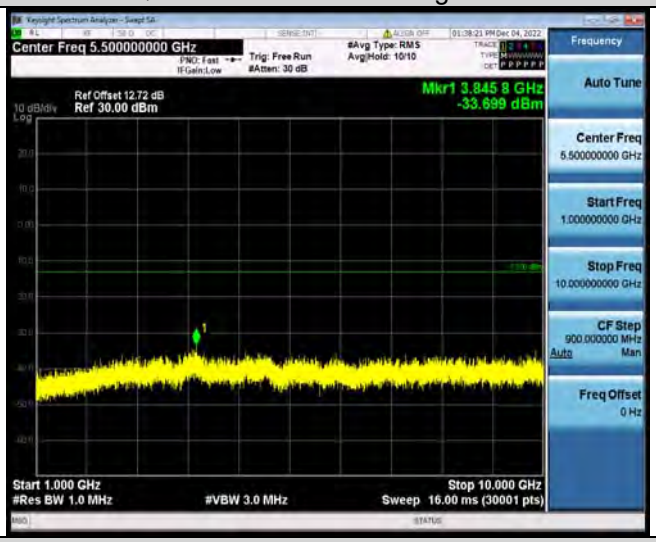
Band5-5MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



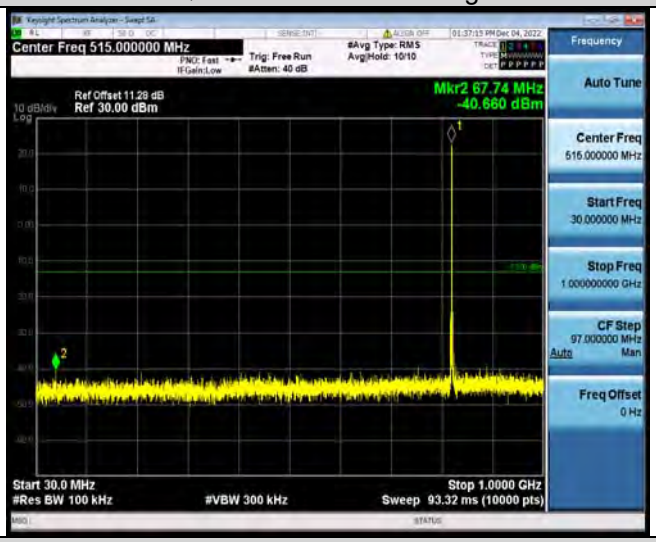
Band5-5MHz-QPSK-20625-1RB#0-Range1:30~1000MHz



Band5-5MHz-QPSK-20625-1RB#0-Range2:1000~10000MHz

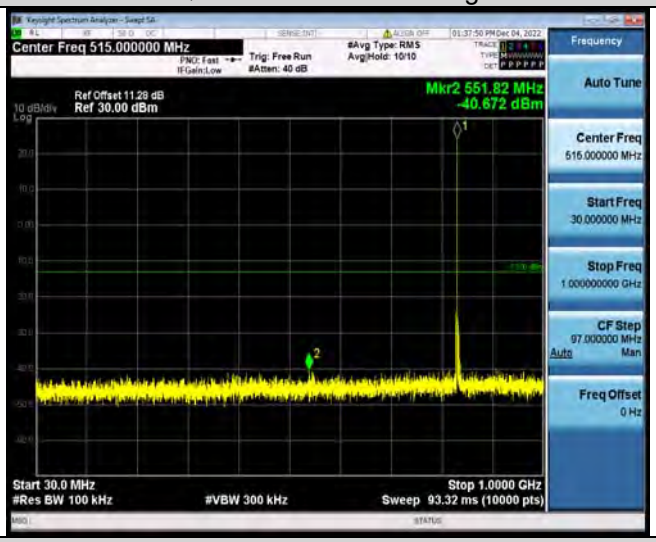


Band5-5MHz-16QAM-20425-1RB#0-Range1:30~1000MHz

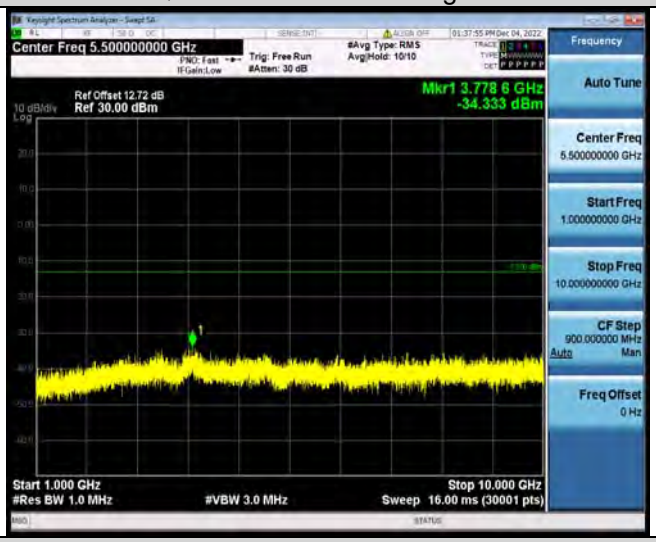


Band5-5MHz-16QAM-20425-1RB#0-Range2:1000~10000MHz

Band5-5MHz-16QAM-20525-1RB#0-Range1:30~1000MHz

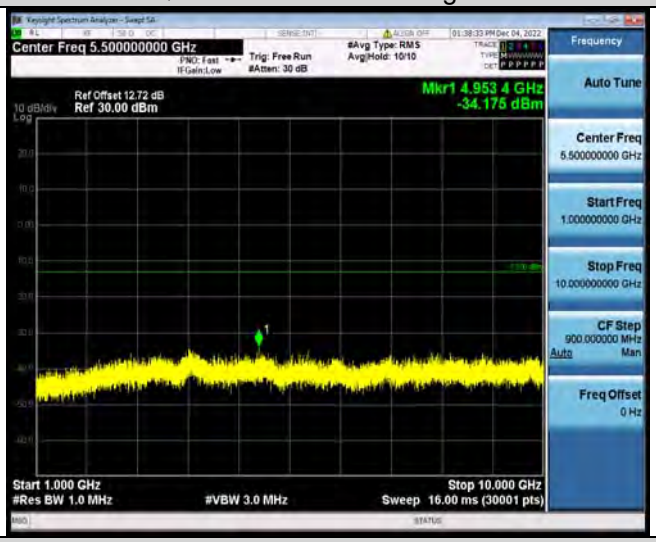


Band5-5MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz

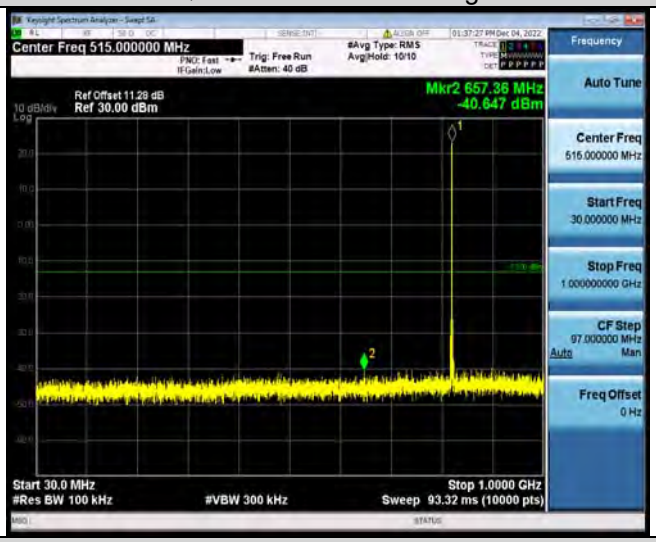


Band5-5MHz-16QAM-20625-1RB#0-Range1:30~1000MHz

Band5-5MHz-16QAM-20625-1RB#0-Range2:1000~10000MHz

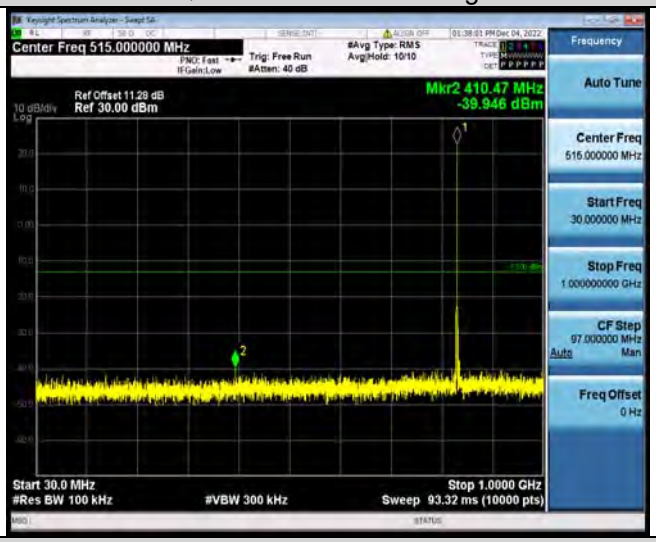


Band5-5MHz-64QAM-20425-1RB#0-Range1:30~1000MHz

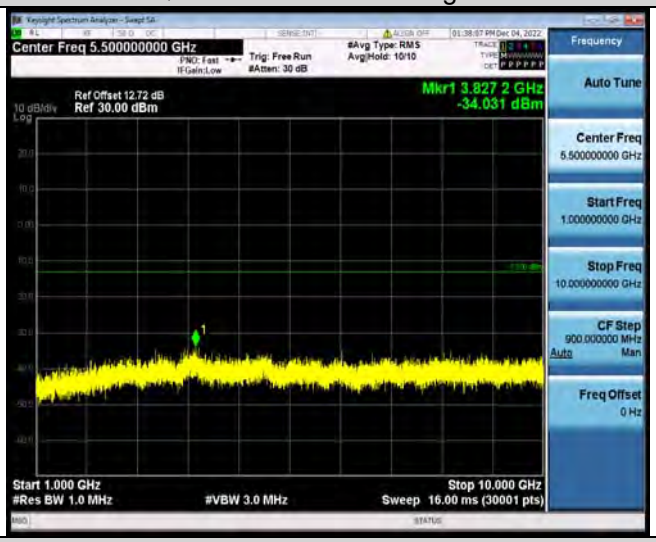


Band5-5MHz-64QAM-20425-1RB#0-Range2:1000~10000MHz

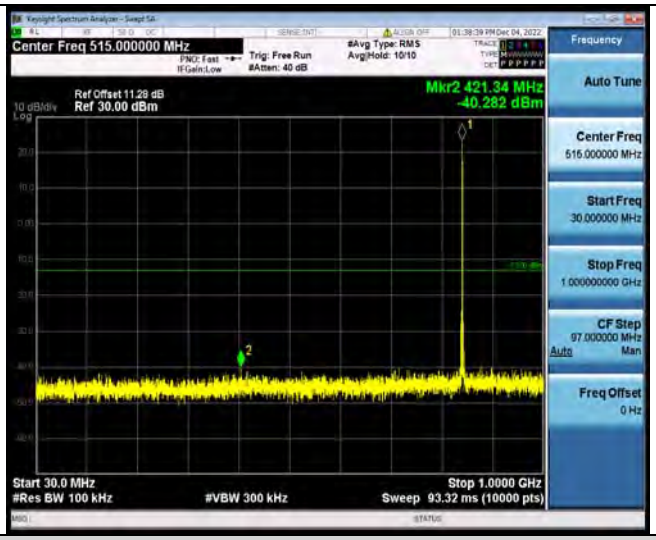
Band5-5MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



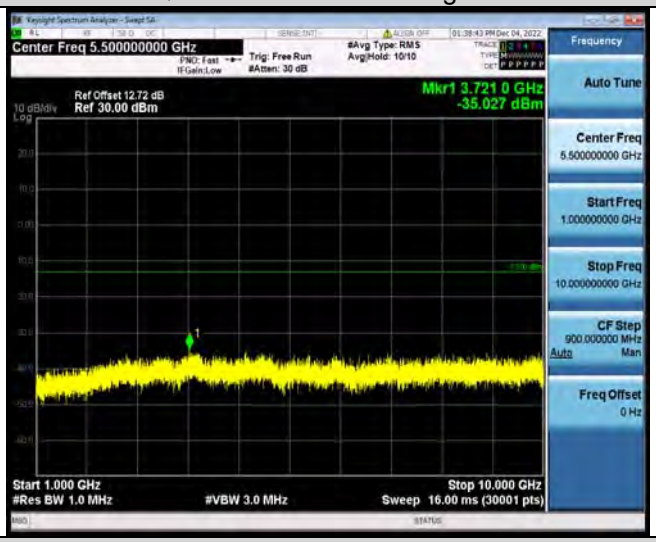
Band5-5MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz



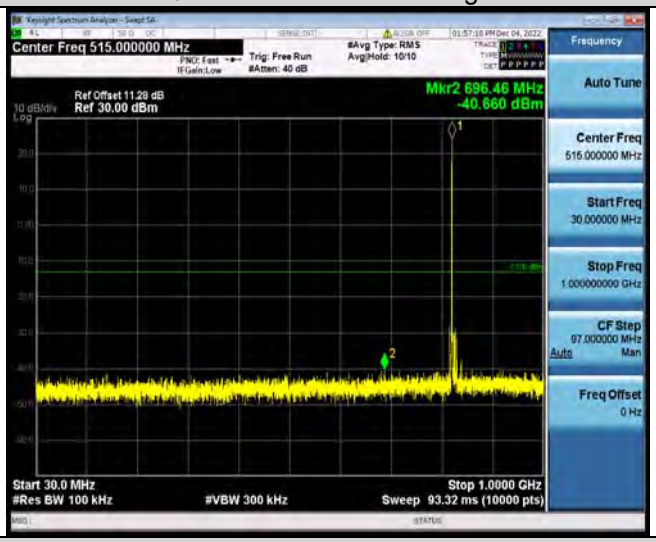
Band5-5MHz-64QAM-20625-1RB#0-Range1:30~1000MHz



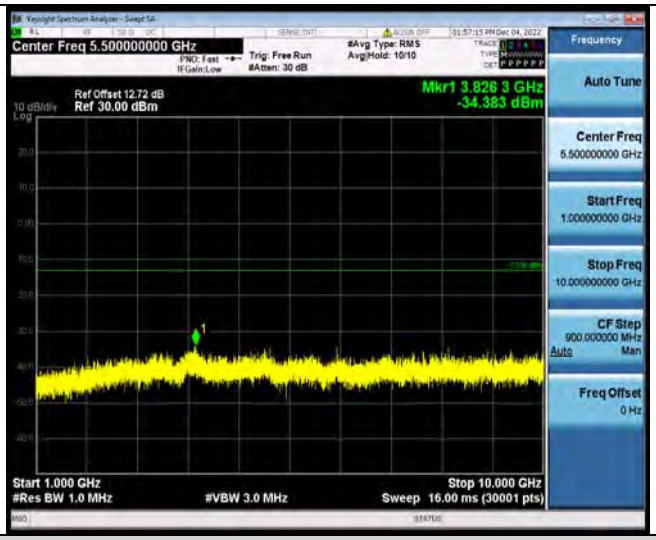
Band5-5MHz-64QAM-20625-1RB#0-Range2:1000~10000MHz



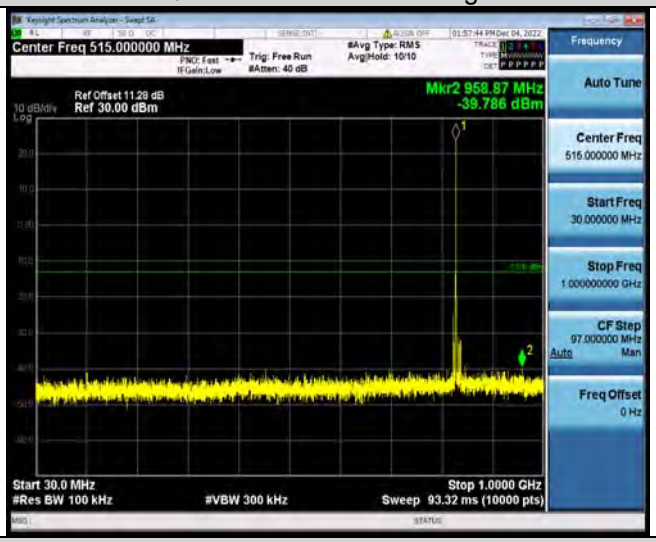
Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



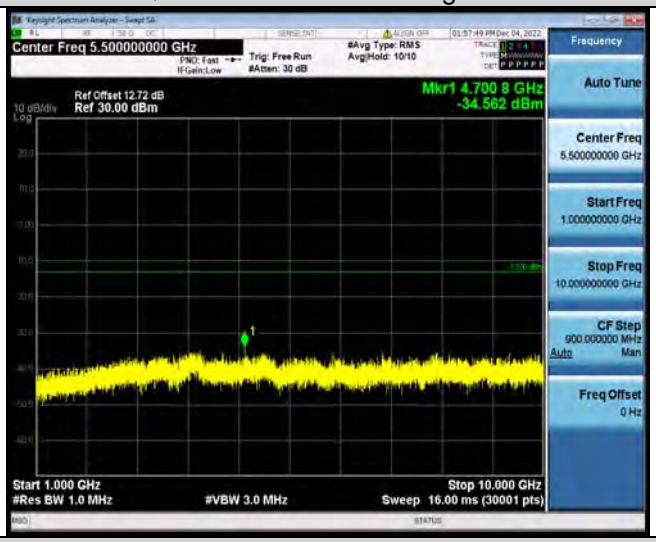
Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz

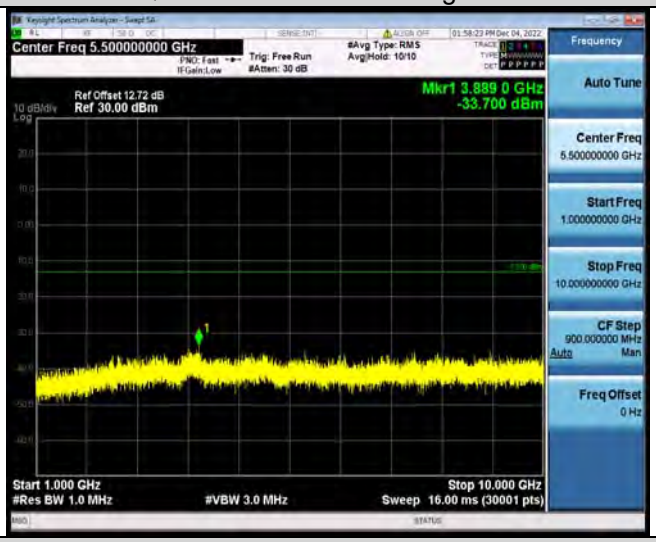


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz

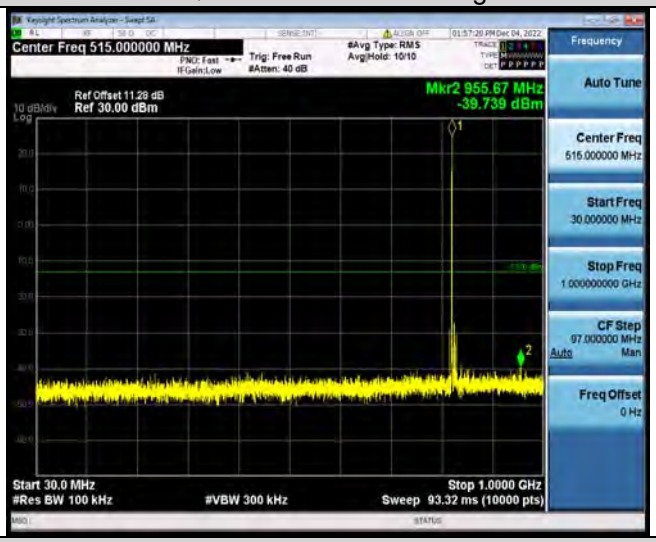


Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz

Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz

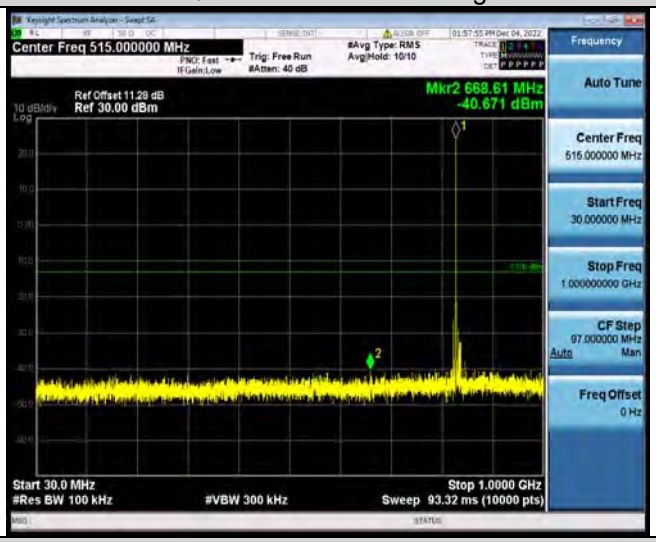


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

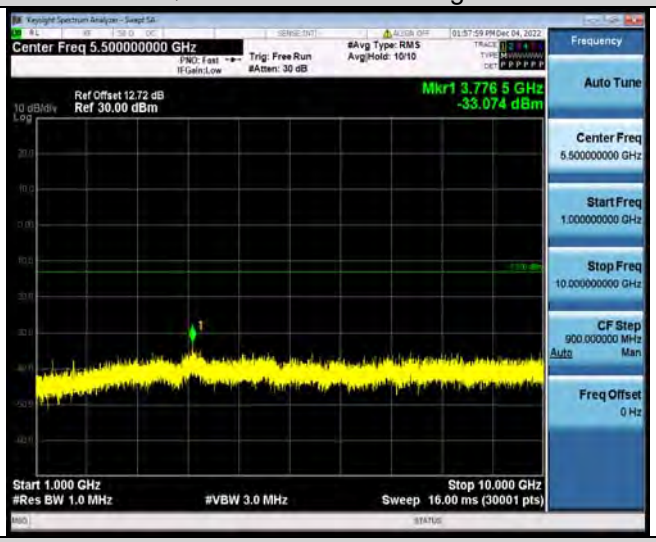


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz

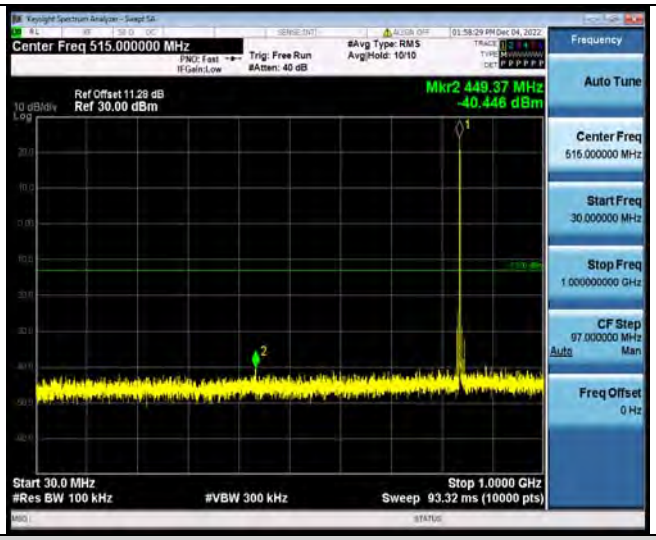
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



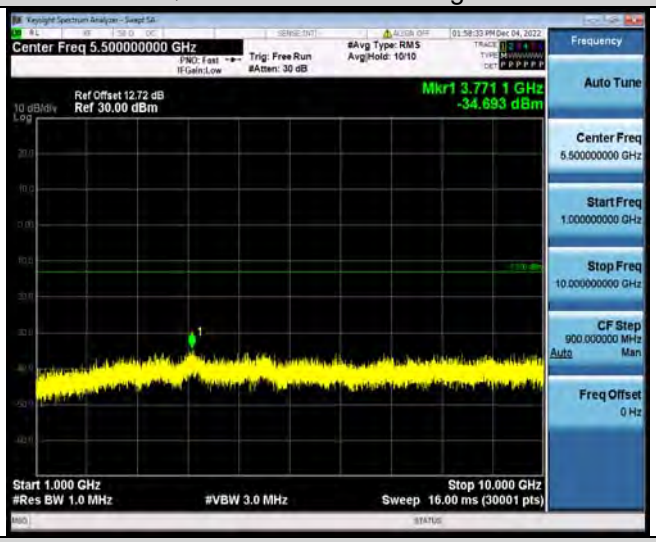
Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



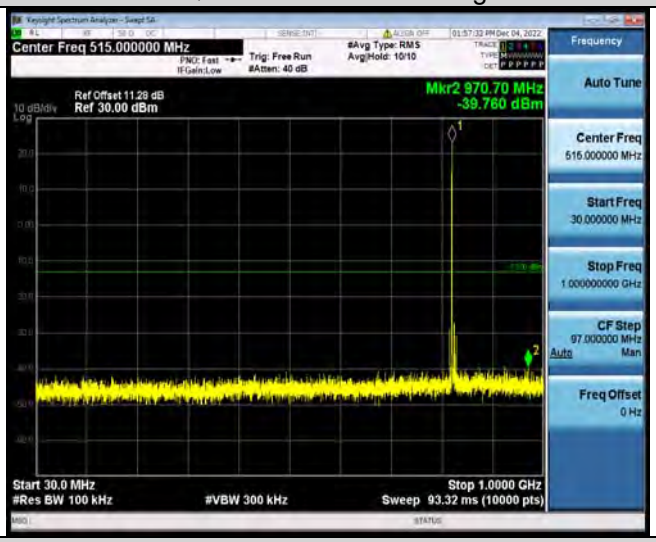
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz

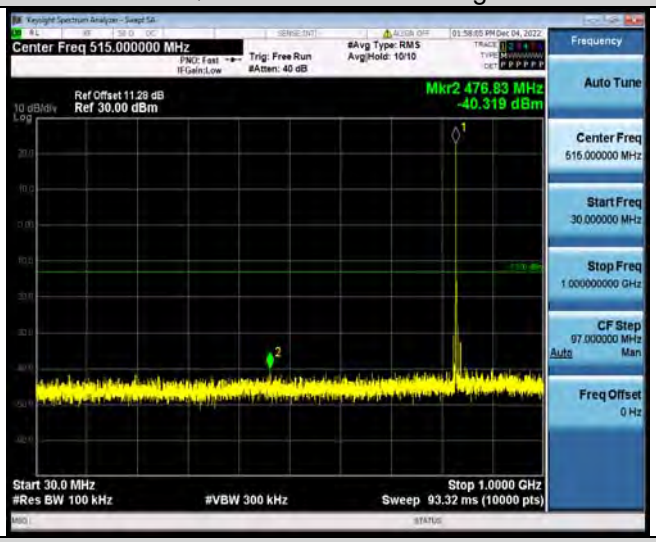


Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz

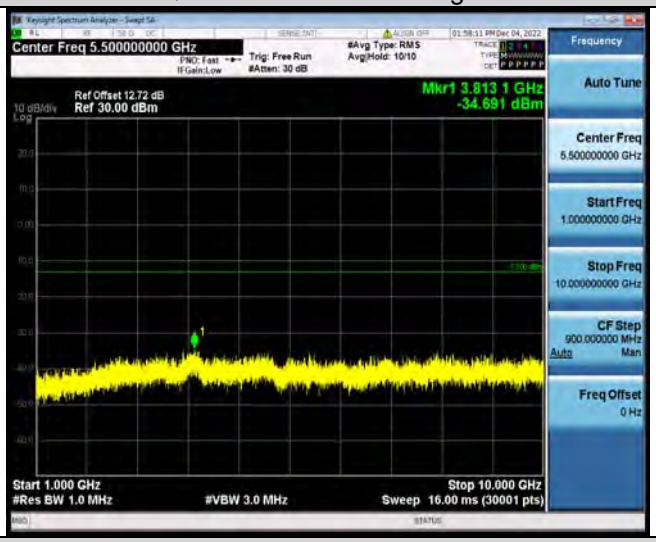


Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~10000MHz

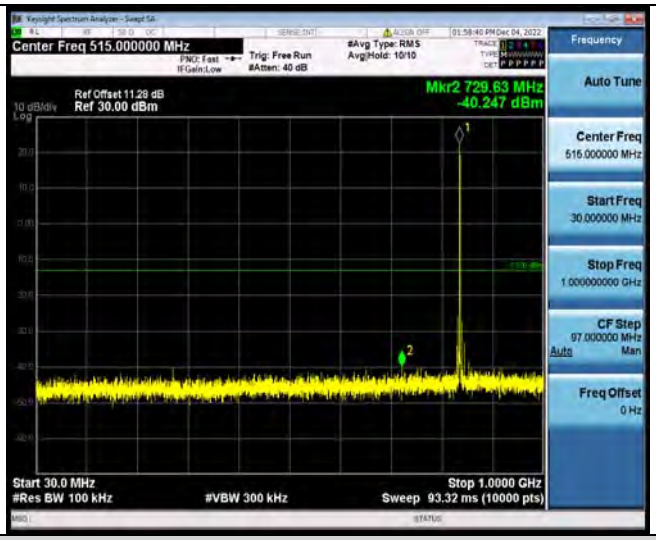
Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz



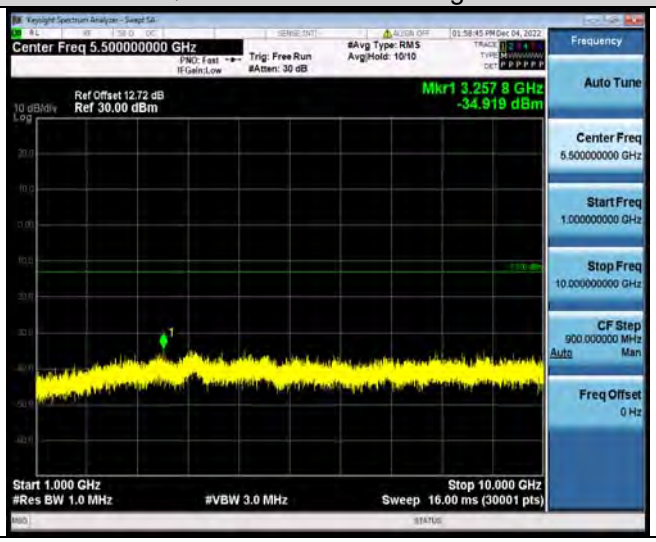
Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz



Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz



Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~10000MHz



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	VL	NT	-10.84	-0.013144	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VN	NT	-16.21	-0.019656	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VH	NT	-4.11	-0.004984	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	16.95	0.020263	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	6.21	0.007424	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	15.74	0.018816	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VL	NT	17.77	0.020948	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VN	NT	8.84	0.010421	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VH	NT	13.06	0.015395	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VL	NT	-1.97	-0.002389	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VN	NT	-2.89	-0.003504	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VH	NT	-2.12	-0.002571	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	-3.91	-0.004674	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	-4.32	-0.005164	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	-2.13	-0.002546	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VL	NT	-2.75	-0.003242	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VN	NT	-2.02	-0.002381	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VH	NT	-2.29	-0.002700	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	VL	NT	-3.33	-0.004038	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	VN	NT	-2.86	-0.003468	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	VH	NT	2.50	0.003031	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	VL	NT	-4.01	-0.004794	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	VN	NT	-3.25	-0.003885	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	VH	NT	-2.46	-0.002941	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	VL	NT	-2.27	-0.002676	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	VN	NT	-2.80	-0.003301	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	VH	NT	-1.62	-0.001910	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VL	NT	2.65	0.003210	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VN	NT	2.65	0.003210	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VH	NT	1.46	0.001769	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	2.07	0.002475	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	3.52	0.004208	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	3.39	0.004053	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VL	NT	3.65	0.004307	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VN	NT	2.22	0.002619	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VH	NT	3.93	0.004637	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VL	NT	2.47	0.002992	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VN	NT	3.10	0.003755	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VH	NT	2.16	0.002617	±2.5	PASS

Band5	3MHz	16QAM	20525	15RB#0	VL	NT	4.38	0.005236	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	3.02	0.003610	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	4.25	0.005081	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VL	NT	-2.76	-0.003257	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VN	NT	1.95	0.002301	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VH	NT	2.93	0.003457	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	VL	NT	3.83	0.004640	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	VN	NT	3.52	0.004264	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	VH	NT	3.29	0.003985	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	VL	NT	4.52	0.005403	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	VN	NT	2.86	0.003419	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	VH	NT	3.39	0.004053	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	VL	NT	3.92	0.004625	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	VN	NT	4.45	0.005251	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	VH	NT	3.36	0.003965	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VL	NT	-1.96	-0.002371	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VN	NT	2.75	0.003327	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VH	NT	2.79	0.003376	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	2.25	0.002690	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	2.70	0.003228	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-0.73	-0.000873	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VL	NT	4.79	0.005659	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VN	NT	2.47	0.002918	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VH	NT	4.11	0.004855	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VL	NT	1.33	0.001609	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VN	NT	3.60	0.004356	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VH	NT	1.56	0.001887	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	1.47	0.001757	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	3.19	0.003814	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	-1.60	-0.001913	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VL	NT	2.23	0.002634	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VN	NT	1.75	0.002067	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VH	NT	2.93	0.003461	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	VL	NT	1.10	0.001331	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	VN	NT	-1.60	-0.001936	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	VH	NT	2.30	0.002783	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	VL	NT	1.66	0.001984	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	VN	NT	1.79	0.002140	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	VH	NT	4.25	0.005081	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	VL	NT	2.37	0.002800	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	VN	NT	3.12	0.003686	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	VH	NT	2.95	0.003485	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-2.78	-0.003353	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	1.60	0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-2.82	-0.003402	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	2.40	0.002869	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.68	-0.003204	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	1.93	0.002307	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-2.22	-0.002630	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-2.47	-0.002927	±2.5	PASS

Band5	10MHz	QPSK	20600	50RB#0	VH	NT	2.19	0.002595	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-0.96	-0.001158	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.65	0.001990	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	2.05	0.002473	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.86	-0.002224	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.69	-0.002020	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-1.14	-0.001363	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	2.32	0.002749	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	1.26	0.001493	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-1.99	-0.002358	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	-2.86	-0.003450	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	2.35	0.002835	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-1.57	-0.001894	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-1.65	-0.001973	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-1.69	-0.002020	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-1.46	-0.001745	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-1.82	-0.002156	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	1.99	0.002358	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	-2.39	-0.002832	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-4.68	-0.005675	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-1.87	-0.002267	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-2.75	-0.003335	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-2.57	-0.003116	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-2.42	-0.002934	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-1.92	-0.002328	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-2.69	-0.003262	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-2.33	-0.002825	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	5.62	0.006718	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	2.40	0.002869	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	2.56	0.003060	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-2.37	-0.002833	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-3.02	-0.003610	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-2.69	-0.003216	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-2.09	-0.002499	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	1.53	0.001829	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	3.82	0.004503	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	1.83	0.002157	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-2.78	-0.003277	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	1.73	0.002039	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-2.70	-0.003183	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	-3.72	-0.004385	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	-2.75	-0.003242	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	-1.47	-0.001733	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-3.60	-0.004365	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	1.32	0.001601	±2.5	PASS

Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-3.45	-0.004183	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-3.06	-0.003710	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-1.95	-0.002364	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	-3.53	-0.004280	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	0.89	0.001079	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-3.33	-0.004038	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	1.27	0.001518	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-3.43	-0.004100	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-4.91	-0.005870	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-1.67	-0.001996	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-2.46	-0.002941	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-2.89	-0.003455	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-2.93	-0.003503	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-2.45	-0.002929	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-4.02	-0.004739	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-1.53	-0.001804	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-2.16	-0.002546	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-3.05	-0.003595	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-3.36	-0.003961	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	-3.63	-0.004279	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	-3.99	-0.004704	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	-3.05	-0.003595	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	-30	1.24	0.001504	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	-20	-2.49	-0.003019	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	0	-3.65	-0.004426	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	10	-1.62	-0.001964	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	20	-2.83	-0.003432	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	30	-2.88	-0.003492	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	40	-2.69	-0.003262	±2.5	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	NV	50	2.60	0.003153	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	-30	-3.02	-0.003610	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	-20	-2.79	-0.003335	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	0	-2.78	-0.003323	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	10	-2.93	-0.003503	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	20	-3.86	-0.004614	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	30	-2.98	-0.003562	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	40	-2.23	-0.002666	±2.5	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	NV	50	-2.85	-0.003407	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	-30	-2.90	-0.003419	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	-20	-3.43	-0.004043	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	0	-3.89	-0.004586	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	10	-4.75	-0.005599	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	20	-3.18	-0.003749	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	30	-2.66	-0.003136	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	40	-2.22	-0.002617	±2.5	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	NV	50	-2.52	-0.002971	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	3.68	0.004458	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	3.92	0.004749	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	2.76	0.003343	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	4.22	0.005112	±2.5	PASS

Band5	3MHz	QPSK	20415	15RB#0	NV	20	3.00	0.003634	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	5.49	0.006651	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	5.29	0.006408	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	3.16	0.003828	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	2.16	0.002582	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	3.46	0.004136	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	2.33	0.002785	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	3.52	0.004208	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	5.18	0.006192	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	2.16	0.002582	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	2.68	0.003204	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	3.50	0.004184	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	1.99	0.002348	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	3.09	0.003646	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	3.12	0.003681	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	2.17	0.002560	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	2.25	0.002655	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	2.78	0.003280	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	3.03	0.003575	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	1.85	0.002183	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	2.45	0.002968	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	1.99	0.002411	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	3.26	0.003949	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	2.36	0.002859	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	1.60	0.001938	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	2.36	0.002859	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	4.06	0.004918	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	2.16	0.002617	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	3.46	0.004136	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	3.50	0.004184	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	3.09	0.003694	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	2.39	0.002857	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	3.96	0.004734	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	6.74	0.008057	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	3.85	0.004603	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	4.15	0.004961	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	2.39	0.002820	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	2.06	0.002431	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	2.19	0.002584	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	2.86	0.003375	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	2.62	0.003091	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	2.17	0.002560	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	1.44	0.001699	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	4.32	0.005097	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	-30	3.85	0.004664	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	-20	5.19	0.006287	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	0	4.12	0.004991	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	10	4.68	0.005669	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	20	3.82	0.004627	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	30	4.11	0.004979	±2.5	PASS

Band5	3MHz	64QAM	20415	15RB#0	NV	40	3.62	0.004385	±2.5	PASS
Band5	3MHz	64QAM	20415	15RB#0	NV	50	2.53	0.003065	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	-30	2.88	0.003443	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	-20	4.11	0.004913	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	0	4.45	0.005320	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	10	2.12	0.002534	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	20	3.33	0.003981	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	30	4.21	0.005033	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	40	4.02	0.004806	±2.5	PASS
Band5	3MHz	64QAM	20525	15RB#0	NV	50	5.12	0.006121	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	-30	2.27	0.002678	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	-20	3.56	0.004201	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	0	1.87	0.002206	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	10	1.39	0.001640	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	20	2.20	0.002596	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	30	2.82	0.003327	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	40	2.46	0.002903	±2.5	PASS
Band5	3MHz	64QAM	20635	15RB#0	NV	50	3.96	0.004673	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-1.97	-0.002384	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	2.33	0.002819	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	3.30	0.003993	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	3.03	0.003666	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	3.03	0.003666	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	2.59	0.003134	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	4.11	0.004973	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	3.32	0.004017	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	1.96	0.002343	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	3.63	0.004340	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	3.71	0.004435	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	4.16	0.004973	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	3.19	0.003814	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	3.76	0.004495	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	3.75	0.004483	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	4.12	0.004925	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	4.82	0.005694	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	4.56	0.005387	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	5.24	0.006190	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	4.98	0.005883	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	2.86	0.003379	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	3.40	0.004017	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	3.88	0.004584	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	3.55	0.004194	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	1.12	0.001355	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-1.92	-0.002323	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-2.66	-0.003218	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	1.22	0.001476	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-2.05	-0.002480	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	0.97	0.001174	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	2.10	0.002541	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-2.19	-0.002650	±2.5	PASS

Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-2.52	-0.003013	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	3.22	0.003849	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-2.02	-0.002415	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	3.28	0.003921	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	1.75	0.002092	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	2.50	0.002989	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	1.33	0.001590	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	3.16	0.003778	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	3.22	0.003804	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	3.38	0.003993	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	3.78	0.004465	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	4.94	0.005836	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	4.76	0.005623	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	3.92	0.004631	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	3.63	0.004288	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	1.87	0.002209	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	-30	-2.50	-0.003025	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	-20	1.62	0.001960	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	0	1.12	0.001355	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	10	-1.92	-0.002323	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	20	1.82	0.002202	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	30	-1.63	-0.001972	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	40	-2.99	-0.003618	±2.5	PASS
Band5	5MHz	64QAM	20425	25RB#0	NV	50	2.05	0.002480	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	-30	2.73	0.003264	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	-20	3.92	0.004686	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	0	4.35	0.005200	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	10	2.75	0.003288	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	20	2.25	0.002690	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	30	3.12	0.003730	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	40	-1.30	-0.001554	±2.5	PASS
Band5	5MHz	64QAM	20525	25RB#0	NV	50	2.16	0.002582	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	-30	1.70	0.002008	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	-20	2.79	0.003296	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	0	2.43	0.002871	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	10	2.22	0.002623	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	20	3.13	0.003698	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	30	3.81	0.004501	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	40	5.12	0.006048	±2.5	PASS
Band5	5MHz	64QAM	20625	25RB#0	NV	50	4.18	0.004938	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	1.57	0.001894	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-2.47	-0.002979	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	1.30	0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	2.93	0.003534	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	4.88	0.005887	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	2.59	0.003124	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	1.77	0.002135	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	1.04	0.001255	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	2.49	0.002977	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	3.32	0.003969	±2.5	PASS

Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.89	-0.001064	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.09	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	1.85	0.002212	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	1.97	0.002355	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	2.02	0.002415	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	2.05	0.002451	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-3.18	-0.003768	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-2.29	-0.002713	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	2.22	0.002630	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-2.30	-0.002725	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	2.40	0.002844	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-1.12	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	3.98	0.004716	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	2.25	0.002714	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	1.92	0.002316	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	2.86	0.003450	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	1.39	0.001677	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	3.42	0.004125	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	1.54	0.001858	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.24	-0.001496	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	1.85	0.002212	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-4.53	-0.005415	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-2.27	-0.002714	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	1.42	0.001698	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	1.67	0.001996	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-1.72	-0.002056	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	2.19	0.002595	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	3.22	0.003815	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	1.90	0.002251	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	2.57	0.003045	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	1.09	0.001291	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	2.05	0.002429	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	1.73	0.002050	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	2.52	0.003040	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-1.75	-0.002111	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	2.25	0.002714	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-1.72	-0.002075	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-0.87	-0.001049	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	2.80	0.003378	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	-1.36	-0.001641	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	-1.42	-0.001713	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	1.57	0.001877	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	1.97	0.002355	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	2.29	0.002738	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	4.51	0.005392	±2.5	PASS

Band5	10MHz	64QAM	20525	50RB#0	NV	20	1.40	0.001674	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	2.56	0.003060	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	-1.36	-0.001626	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	1.50	0.001793	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	3.00	0.003555	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-1.92	-0.002275	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	2.88	0.003412	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	-0.77	-0.000912	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-1.54	-0.001825	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	3.25	0.003851	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	0.93	0.001102	±2.5	PASS

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