



# TEST REPORT

**APPLICANT** : JACS Solutions, Inc.

**PRODUCT NAME** : LTE Indoor CPE

**MODEL NAME** : TD0551

**BRAND NAME** : N/A

**FCC ID** : 2AGCDJACSTD0551

**STANDARD(S)** : 47 CFR Part 2  
47 CFR Part 27  
47 CFR Part 96

**RECEIPT DATE** : 2023-01-30

**TEST DATE** : 2023-02-08 to 2023-02-27

**ISSUE DATE** : 2023-03-16

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Li Huaijie (Rapporteur)

Approved by: Shen Junsheng  
Shen Junsheng(Supervisor)

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<b>Change History</b>		
<b>Version</b>	<b>Date</b>	<b>Reason for change</b>
1.0	2023-03-16	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	JACS Solutions, Inc.
<b>Applicant Address:</b>	809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090
<b>Manufacturer:</b>	JACS Solutions, Inc.
<b>Manufacturer Address:</b>	809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090



## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	LTE Indoor CPE	
<b>Hardware Version:</b>	V1.0	
<b>Software Version:</b>	TD0551_JACS_V1.0.2	
<b>IMEI:</b>	358814640110380	
<b>Modulation Type:</b>	QPSK, 16QAM	
<b>Operation Band:</b>	Uplink:CA_42C,	
<b>Frequency Range:</b>	LTE Band 42	Tx: 3450MHz–3550MHz Rx: 3450MHz–3550MHz
	LTE Band 42	Tx: 3550MHz–3600MHz Rx: 3550MHz–3600MHz
	LTE Band 42	5MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	Fixed Internal Antenna	
<b>Antenna Gain:</b>	LTE Band 42	0 dBi
<b>Accessory Information:</b>	AC Adapter	
	<b>Brand Name:</b>	Shenzhen YWK Electronics Co.,Ltd.
	<b>Model No.:</b>	YWK-AD120100 U
	<b>Serial No.:</b>	N/A
	<b>Rated Output:</b>	12V/1A
	<b>Rated Input:</b>	100-240V, ~50/60Hz, 0.3A
	<b>Manufacturer:</b>	Shenzhen YWK ElectronicsCo.,Ltd

**Note1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



### 1.3. Maximum ERP/EIRP and Emission Designator

Channel bandwidth	Maximum ERP/EIRP (W)			
LTE CA_42C (3450-3550)	QPSK	16QAM	64QAM	256QAM
20+20	0.192	/	/	/
LTE CA_42C (3550-3600)	QPSK	16QAM	64QAM	256QAM
20+20	0.195	/	/	/

Channel bandwidth	Emission Designator (99%OBW)	
LTE CA_42C (3450-3550)	QPSK	16QAM
5+20	22M8G7W	22M8W7D
10+20	27M7G7W	27M8W7D
15+20	32M6G7W	32M6W7D
20+5	22M8G7W	22M8W7D
20+10	27M7G7W	27M7W7D
20+15	32M7G7W	32M6W7D
20+20	37M5G7W	37M5W7D

Channel bandwidth	Emission Designator (99%OBW)	
LTE CA_42C (3550-3600)	QPSK	16QAM
5+20	22M8G7W	22M8W7D
10+20	27M8G7W	27M8W7D
15+20	32M6G7W	32M6W7D
20+5	22M8G7W	22M8W7D
20+10	27M9G7W	27M7W7D
20+15	32M6G7W	32M6W7D
20+20	37M5G7W	37M5W7D



## 1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 27 and Part 96 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 27	Miscellaneous Wireless Communications Services
3	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE



Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 27.50(k)(3), 96.41(b)	Transmitter Conducted Output Power and ERP/EIRP	2023/02/08	Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	2023/02/13	Li Huaijie	PASS	No deviation
2.1051, 27.53(l)(2), 96.41(e)	Conducted Spurious Emissions	2023/02/27	Li Huaijie	PASS	No deviation
2.1051, 27.53(l)(2), 96.41(e)	Band Edge	2023/02/10- 2023/02/13	Li Huaijie	PASS	No deviation
2.1051, 27.53(l)(2), 96.41(e)	Radiated Spurious Emissions	2023/02/15	Li Hanbin Lin Jiayong	PASS	No deviation
<p><b>Note 1:</b> The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.</p> <p><b>Note 2:</b> The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipment. The ref offset 8dB contains two parts that cable loss 5dB and Attenuator3dB.</p> <p><b>Note 3:</b> When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.</p>					



## 1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

<b>Temperature (°C):</b>	15 - 35
<b>Relative Humidity (%):</b>	30 - 60
<b>Atmospheric Pressure (kPa):</b>	86-106





## 2. 47 CFR Part 2and 27M Requirements

### 2.1. Transmitter Conducted Output Power and ERP/EIPR

#### 2.1.1. Requirement

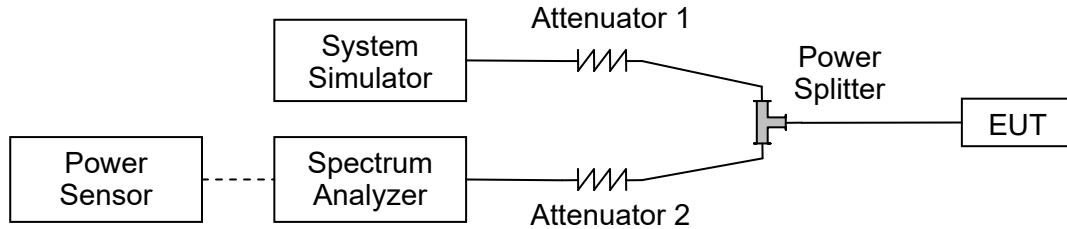
According to FCC section 2.1046(a) for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 27.50(k)(3) for B42(3450-3550MHz), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

The maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below. paragraph.

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD <sup>1</sup>	47	37

### 2.1.1. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.1.2. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$



### 2.1.3. Result

#### Conducted Output Power

LTE CA_42C(3450-3550)								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
39750	39948	QPSK	1	0	100	0	1	22.83
40521	40719	QPSK	1	0	100	0	1	22.78
41292	41490	QPSK	1	0	100	0	1	22.81

LTE CA_42C(3550-3600)								
Combination:20MHz+20MHz(100RB+100RB)								
PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
			RB Size	RB Offset	RB Size	RB Offset		
55340	55538	QPSK	1	0	100	0	1	22.91
55891	56089	QPSK	1	0	100	0	1	22.82
56442	56640	QPSK	1	0	100	0	1	22.86

**Effective Radiated Power and Effective Isotropic Radiated Power**

<b>LTE CA_42C(3450-3550)</b>									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
42190	42388	QPSK	1	0	100	0	1	22.83	0.192
42491	42689	QPSK	1	0	100	0	1	22.78	0.190
42792	42990	QPSK	1	0	100	0	1	22.81	0.191

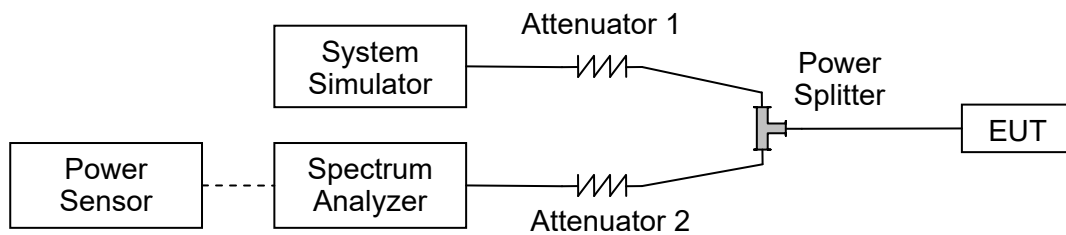
<b>LTE CA_42C(3550-3600)</b>									
Combination:20MHz+20MHz(100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Measured EIRP(W)
			RB Size	RB Offset	RB Size	RB Offset			
41690	43190	QPSK	1	0	100	0	1	22.91	0.195
42590	43241	QPSK	1	0	100	0	1	22.82	0.191
43490	43292	QPSK	1	0	100	0	1	22.86	0.193

## 2.2. Occupied Bandwidth

### 2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

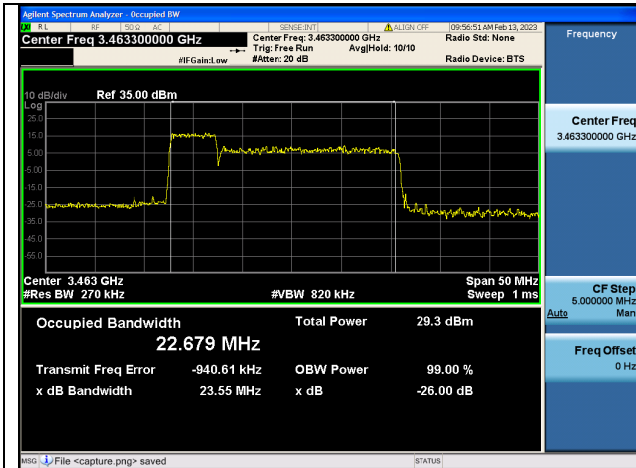
### 2.2.4. Test Result



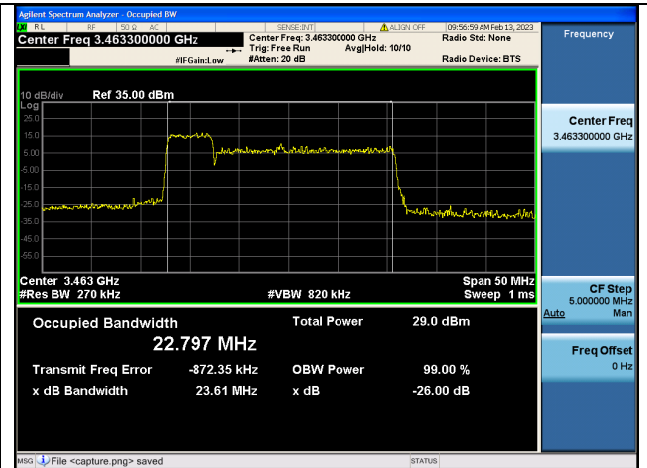
LTE CA 42C(3450M~3500M)						
BW(MHz)	Channel Level	PCC Channel	SCC Channel	Modulation	99% BW (MHz)	26dB BW (MHz)
5MHz+20MHz	Low	42123	42240	QPSK	22.68	23.55
5MHz+20MHz	Low	42123	42240	16QAM	22.80	23.61
20MHz+5MHz	Low	42190	42240	QPSK	22.78	23.89
20MHz+5MHz	Low	42190	42307	16QAM	22.81	23.87
10MHz+20MHz	Low	42145	42307	QPSK	27.69	28.75
10MHz+20MHz	Low	42145	42307	16QAM	27.77	28.68
20MHz+10MHz	Low	42190	42289	QPSK	27.70	29.00
20MHz+10MHz	Low	42190	42289	16QAM	27.63	28.98
15MHz+20MHz	Low	42168	42289	QPSK	32.47	33.77
15MHz+20MHz	Low	42168	42334	16QAM	32.54	33.92
20MHz+15MHz	Low	42190	42334	QPSK	32.67	34.22
20MHz+15MHz	Low	42190	42334	16QAM	32.56	33.97
20MHz+20MHz	Low	42190	42339	QPSK	37.44	39.18
20MHz+20MHz	Low	42190	42339	16QAM	37.53	39.14
5MHz+20MHz	Mid	42498	42339	QPSK	22.77	23.56
5MHz+20MHz	Mid	42498	42361	16QAM	22.74	23.64
20MHz+5MHz	Mid	42565	42361	QPSK	22.81	23.74
20MHz+5MHz	Mid	42565	42361	16QAM	22.81	23.89
10MHz+20MHz	Mid	42496	42388	QPSK	27.60	28.70
10MHz+20MHz	Mid	42496	42388	16QAM	27.75	28.71
20MHz+10MHz	Mid	42541	42388	QPSK	27.68	29.04
20MHz+10MHz	Mid	42541	42615	16QAM	27.66	29.04
15MHz+20MHz	Mid	42493	42615	QPSK	32.56	33.73
15MHz+20MHz	Mid	42493	42615	16QAM	32.63	34.14
20MHz+15MHz	Mid	42516	42682	QPSK	32.54	33.95
20MHz+15MHz	Mid	42516	42682	16QAM	32.59	33.93
20MHz+20MHz	Mid	42491	42682	QPSK	37.48	39.12
20MHz+20MHz	Mid	42491	42640	16QAM	37.49	39.10
5MHz+20MHz	High	42873	42640	QPSK	22.78	23.62
5MHz+20MHz	High	42873	42640	16QAM	22.83	23.59
20MHz+5MHz	High	42940	42685	QPSK	22.76	23.98
20MHz+5MHz	High	42940	42685	16QAM	22.82	24.03
10MHz+20MHz	High	42846	42685	QPSK	27.59	28.79
10MHz+20MHz	High	42846	42664	16QAM	27.61	28.65
20MHz+10MHz	High	42891	42664	QPSK	27.66	28.87
20MHz+10MHz	High	42891	42664	16QAM	27.67	28.96
15MHz+20MHz	High	42819	42687	QPSK	32.59	34.02
15MHz+20MHz	High	42819	42687	16QAM	32.49	34.06
20MHz+15MHz	High	42841	42687	QPSK	32.52	33.98
20MHz+15MHz	High	42841	42689	16QAM	32.50	34.00
20MHz+20MHz	High	42792	42689	QPSK	37.49	39.04
20MHz+20MHz	High	42792	42689	16QAM	37.54	38.88



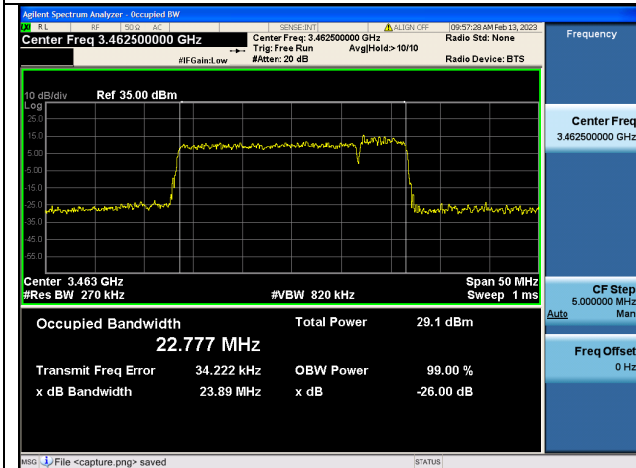
LTE CA 42C(3550M~3600M)						
BW(MHz)	Channel Level	PCC Channel	SCC Channel	Modulation	99% BW (MHz)	26dB BW (MHz)
5MHz+20MHz	Low	43115	43232	QPSK	22.76	23.56
5MHz+20MHz	Low	43115	43232	16QAM	22.74	23.59
20MHz+5MHz	Low	43190	43232	QPSK	22.82	23.69
20MHz+5MHz	Low	43190	43307	16QAM	22.81	23.71
10MHz+20MHz	Low	43140	43307	QPSK	27.58	28.76
10MHz+20MHz	Low	43140	43307	16QAM	27.67	28.78
20MHz+10MHz	Low	43190	43284	QPSK	27.87	28.78
20MHz+10MHz	Low	43190	43284	16QAM	27.67	28.93
15MHz+20MHz	Low	43165	43284	QPSK	32.57	33.65
15MHz+20MHz	Low	43165	43334	16QAM	32.53	33.73
20MHz+15MHz	Low	43190	43334	QPSK	32.55	34.02
20MHz+15MHz	Low	43190	43334	16QAM	32.44	33.67
20MHz+20MHz	Low	43190	43336	QPSK	37.45	38.89
20MHz+20MHz	Low	43190	43336	16QAM	37.51	38.90
5MHz+20MHz	Mid	43248	43336	QPSK	22.67	23.51
5MHz+20MHz	Mid	43248	43361	16QAM	22.80	23.54
20MHz+5MHz	Mid	43315	43361	QPSK	22.84	23.93
20MHz+5MHz	Mid	43315	43361	16QAM	22.79	23.92
10MHz+20MHz	Mid	43246	43388	QPSK	27.52	28.54
10MHz+20MHz	Mid	43246	43388	16QAM	27.79	28.51
20MHz+10MHz	Mid	43291	43388	QPSK	27.70	28.60
20MHz+10MHz	Mid	43291	43365	16QAM	27.51	28.96
15MHz+20MHz	Mid	43243	43365	QPSK	32.63	33.93
15MHz+20MHz	Mid	43243	43365	16QAM	32.62	33.74
20MHz+15MHz	Mid	43266	43432	QPSK	32.61	33.81
20MHz+15MHz	Mid	43266	43432	16QAM	32.51	33.66
20MHz+20MHz	Mid	43241	43432	QPSK	37.54	38.77
20MHz+20MHz	Mid	43241	43390	16QAM	37.52	38.79
5MHz+20MHz	High	43373	43390	QPSK	22.75	23.56
5MHz+20MHz	High	43373	43390	16QAM	22.65	23.48
20MHz+5MHz	High	43448	43435	QPSK	22.77	23.72
20MHz+5MHz	High	43448	43435	16QAM	22.74	23.83
10MHz+20MHz	High	43346	43435	QPSK	27.81	28.54
10MHz+20MHz	High	43346	43414	16QAM	27.77	28.65
20MHz+10MHz	High	43396	43414	QPSK	27.67	28.90
20MHz+10MHz	High	43396	43414	16QAM	27.70	28.83
15MHz+20MHz	High	43319	43437	QPSK	32.53	33.56
15MHz+20MHz	High	43319	43437	16QAM	32.62	33.75
20MHz+15MHz	High	43344	43437	QPSK	32.48	33.58
20MHz+15MHz	High	43344	43439	16QAM	32.60	33.89
20MHz+20MHz	High	43292	43439	QPSK	37.29	38.76
20MHz+20MHz	High	43292	43439	16QAM	37.44	38.99



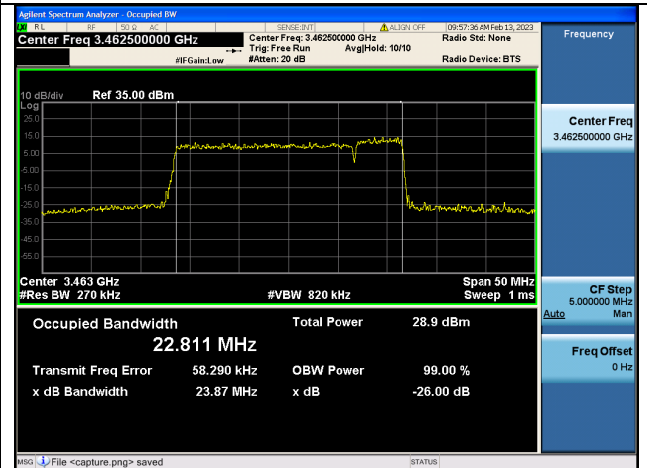
Band42C(3450~3500) / 5MHz+20MHz / QPSK/ Low CH



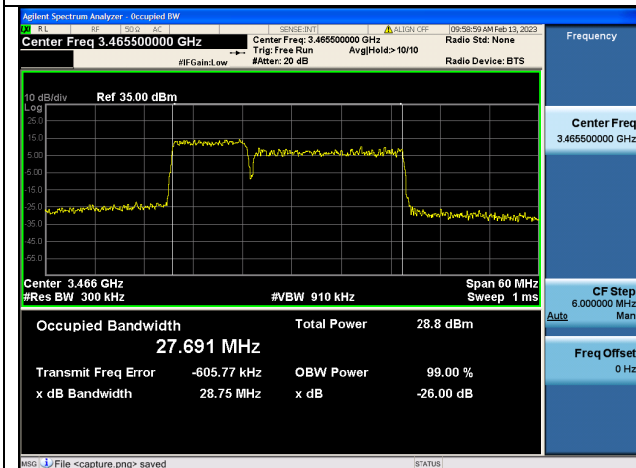
Band42C(3450~3500) / 5MHz+20MHz / 16QAM/ Low CH



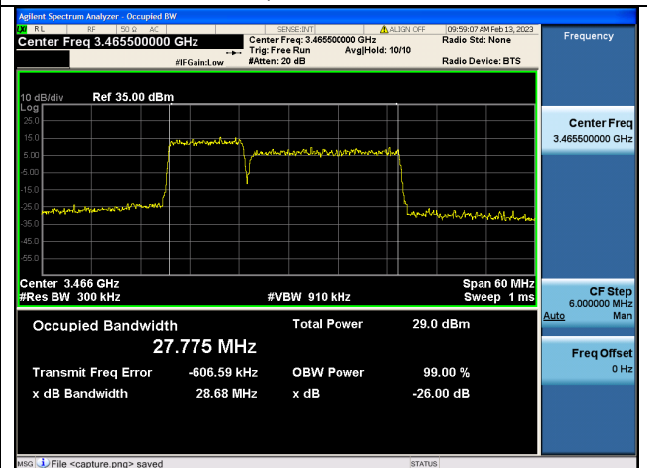
Band42C(3450~3500) / 20MHz+5MHz / QPSK/ Low CH



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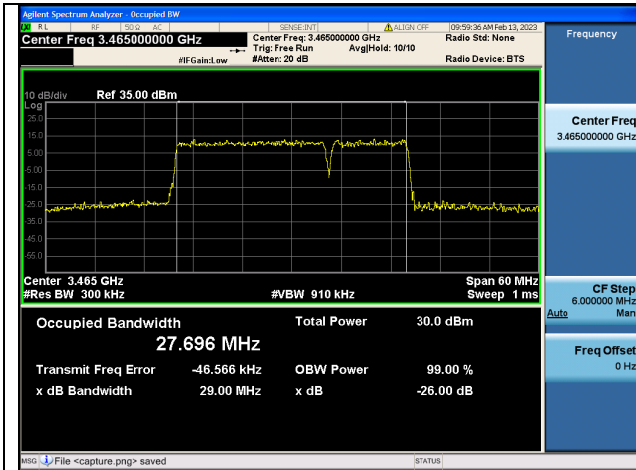


Band42C(3450~3500) / 10MHz+20MHz / QPSK/ Low CH

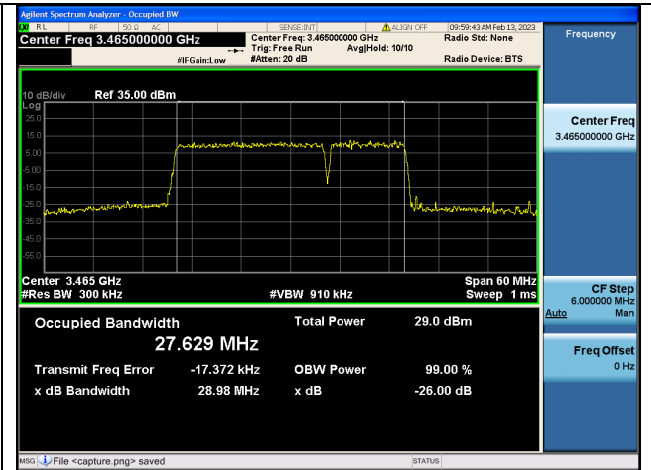


Band42C(3450~3500) / 10MHz+20MHz / 16QAM/ Low CH

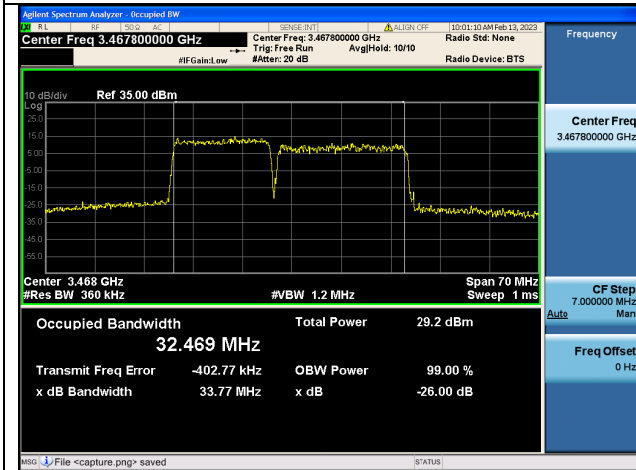




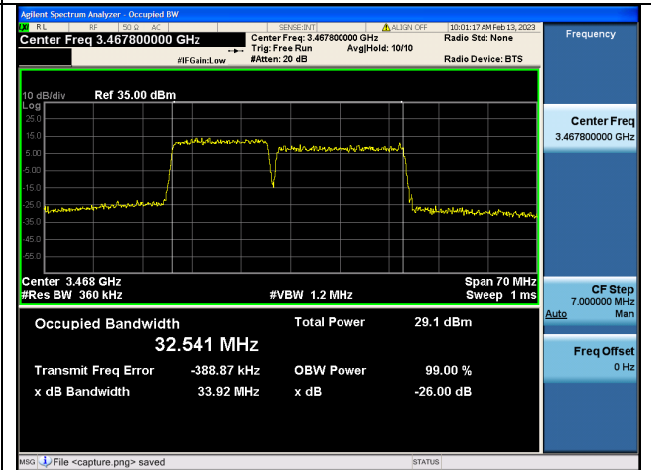
Band42C(3450~3500) / 20MHz+10MHz / QPSK/ Low CH



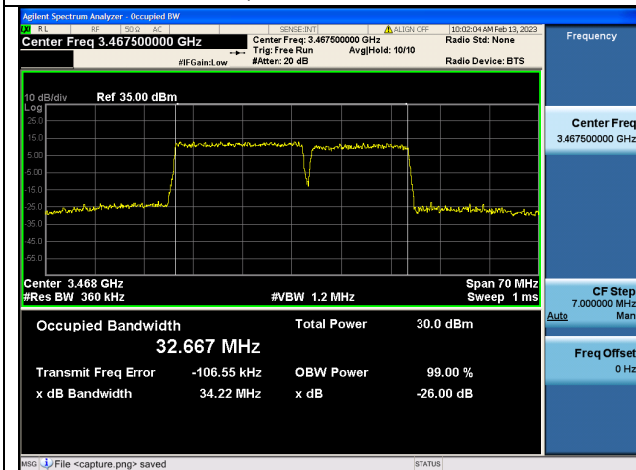
Band42C(3450~3500) / 20MHz+10MHz / 16QAM/ Low CH



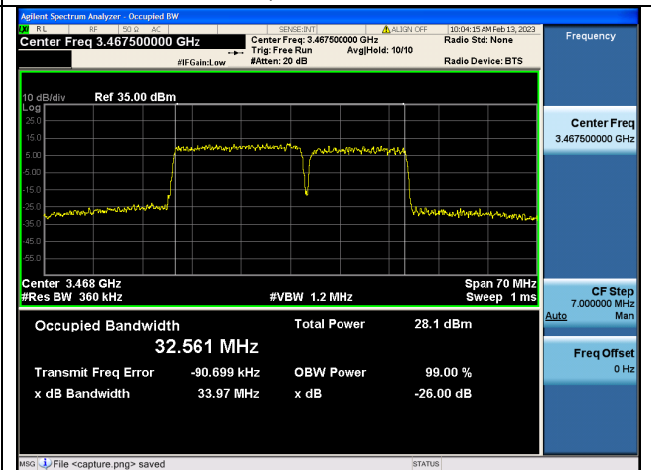
Band42C(3450~3500) / 15MHz+20MHz / QPSK/ Low CH



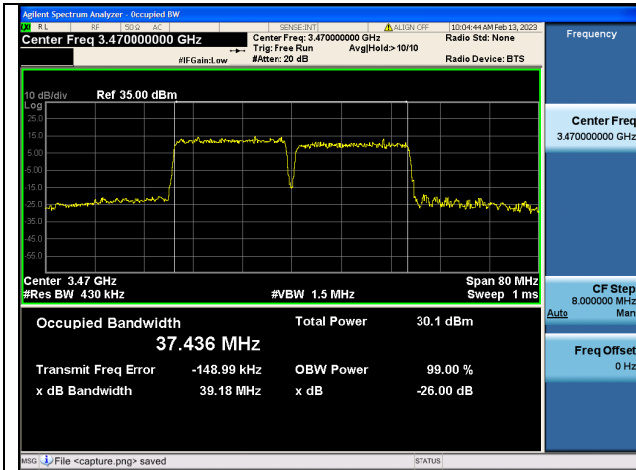
Band42C(3450~3500) / 15MHz+20MHz / 16QAM/ Low CH



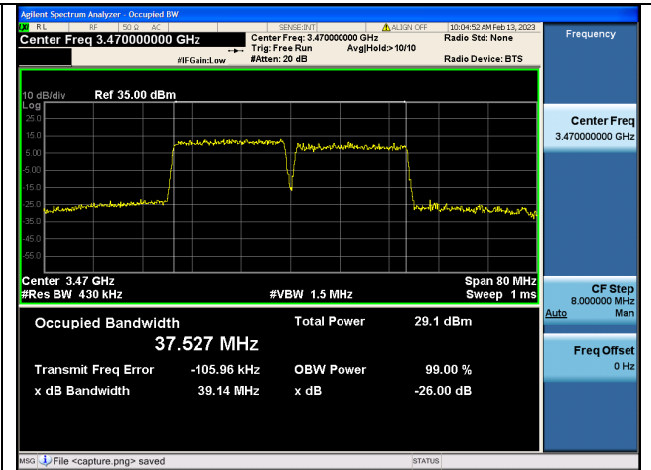
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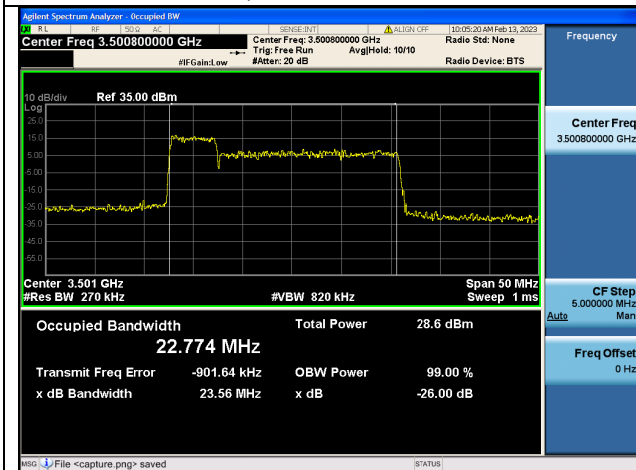
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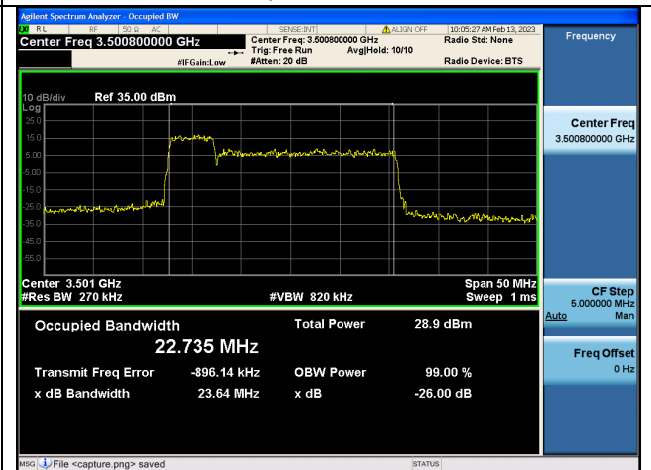
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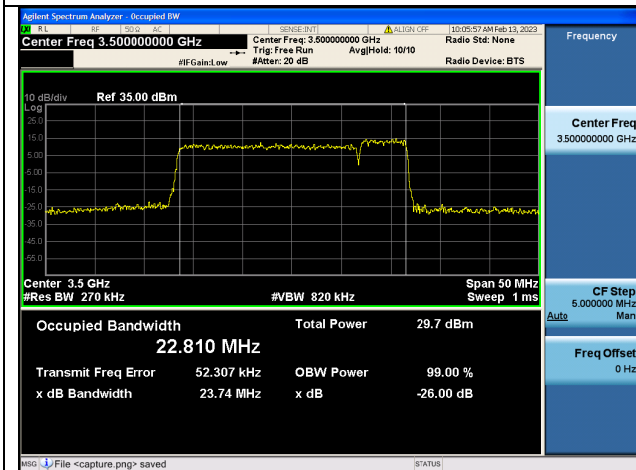
Band42C(3450~3500) / 20MHz+20MHz / 16QAM/ Low CH



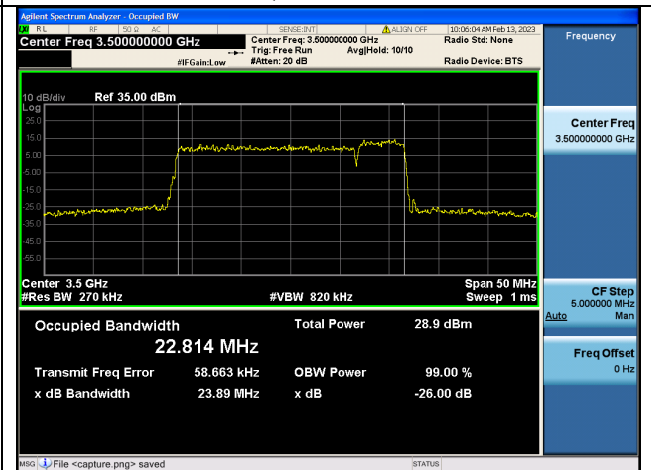
Band42C(3450~3500) / 5MHz+20MHz / QPSK/ Mid CH



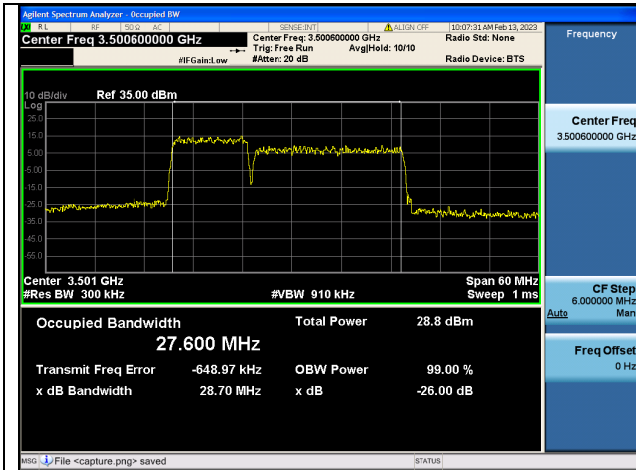
Band42C(3450~3500) / 5MHz+20MHz / 16QAM/ Mid CH



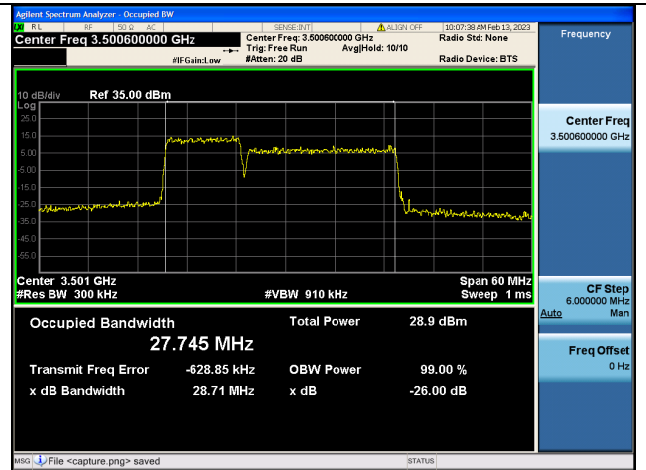
Band42C(3450~3500) / 20MHz+5MHz / QPSK/ Mid CH



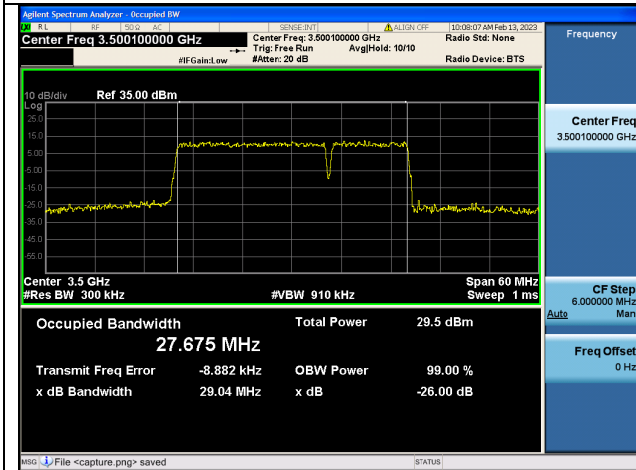
Band42C(3450~3500) / 20MHz+5MHz / 16QAM/ Mid CH



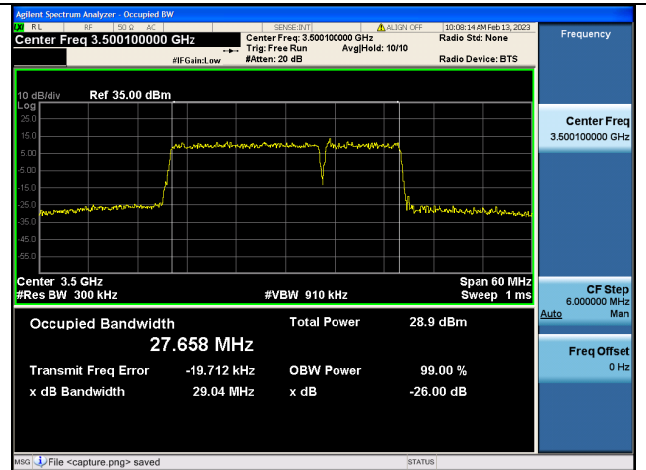
Band42C(3450~3500) / 10MHz+20MHz / QPSK/ Mid CH



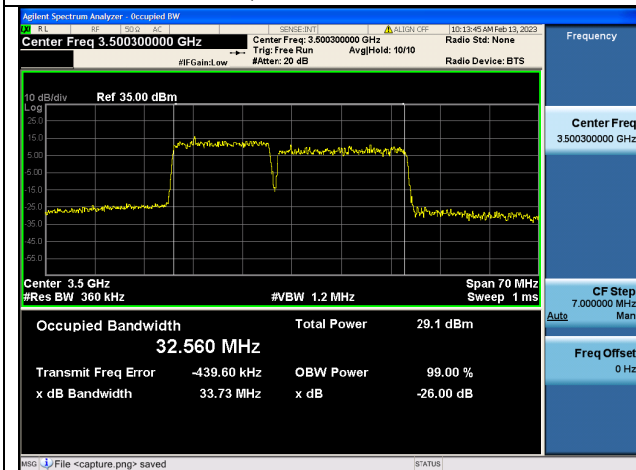
Band42C(3450~3500) / 10MHz+20MHz / 16QAM/ Mid CH



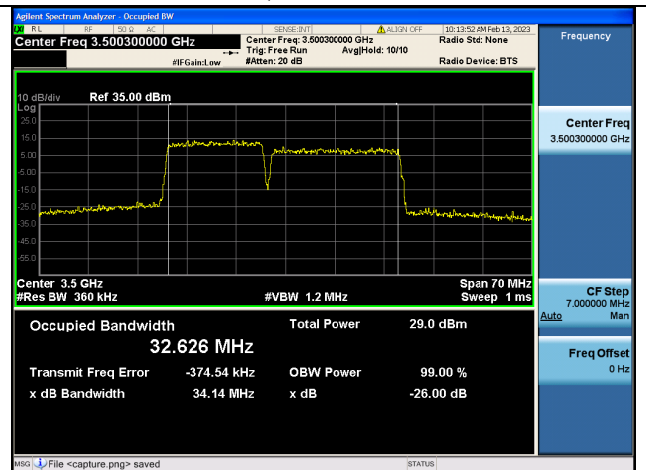
Band42C(3450~3500) / 20MHz+10MHz / QPSK/ Mid CH



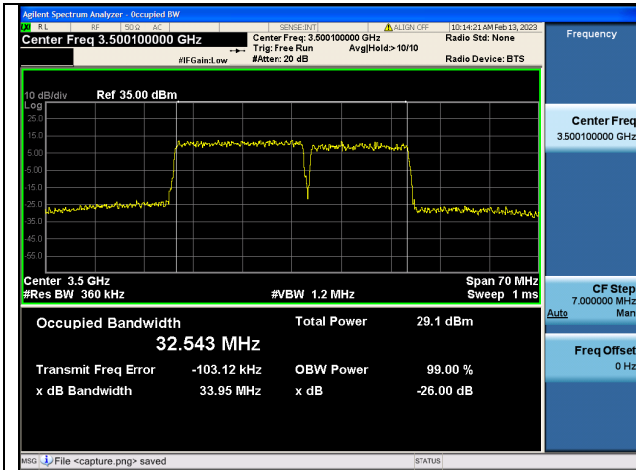
Band42C(3450~3500) / 20MHz+10MHz / 16QAM/ Mid CH



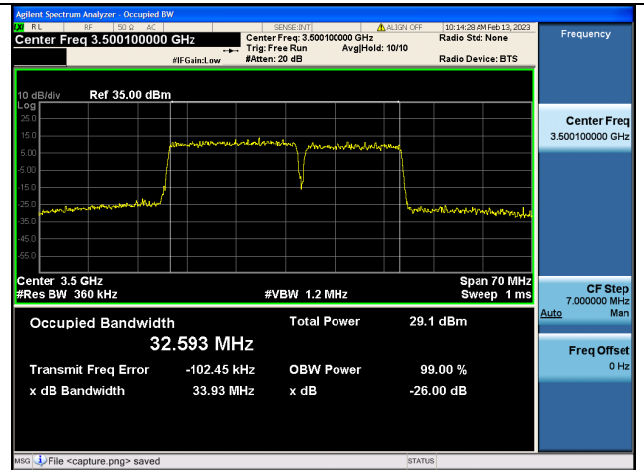
Band42C(3450~3500) / 15MHz+20MHz / QPSK/ Mid CH



Band42C(3450~3500) / 15MHz+20MHz / 16QAM/ Mid CH



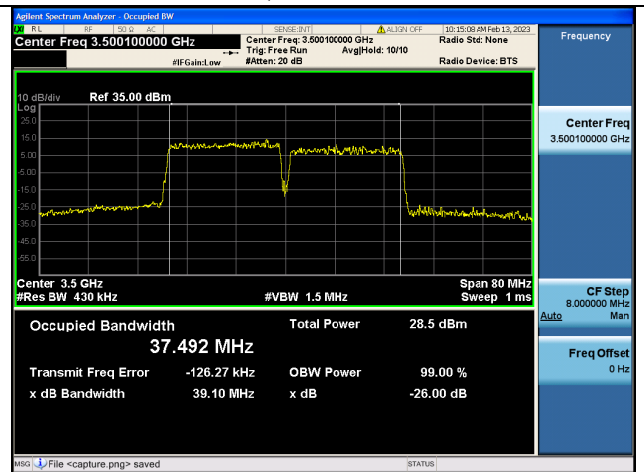
Band42C(3450~3500) / 20MHz+15MHz / QPSK/ Mid CH



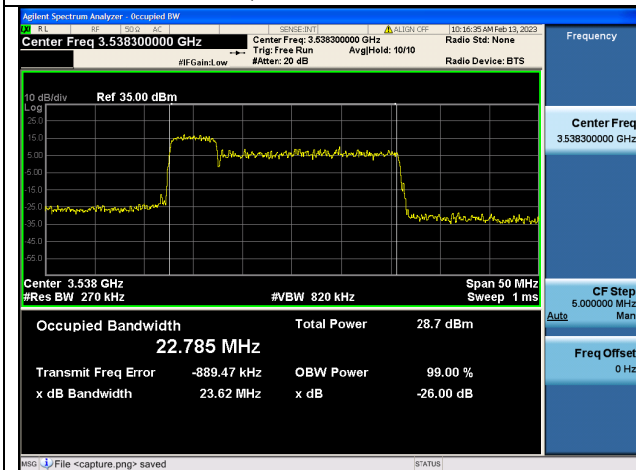
Band42C(3450~3500) / 20MHz+15MHz / 16QAM/ Mid CH



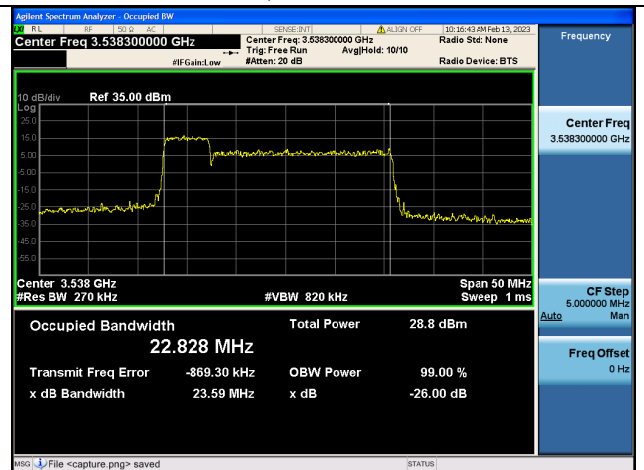
Band42C(3450~3500) / 20MHz+20MHz / QPSK/ Mid CH



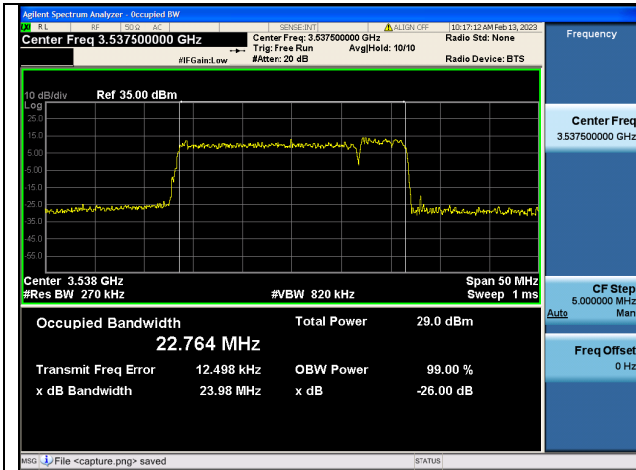
Band42C(3450~3500) / 20MHz+20MHz / 16QAM/ Mid CH



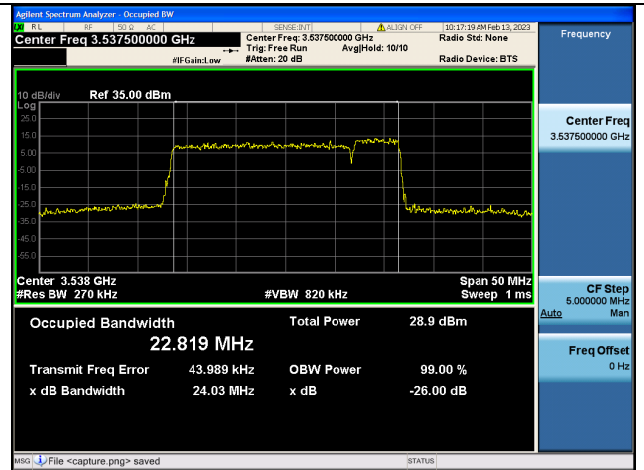
Band42C(3450~3500) / 5MHz+20MHz / QPSK/ High CH



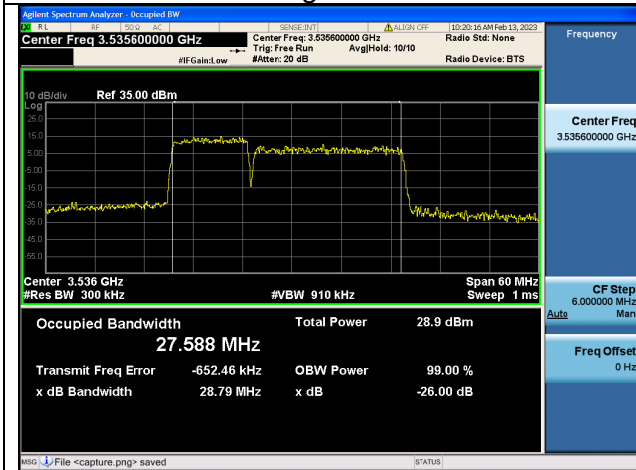
Band42C(3450~3500) / 5MHz+20MHz / 16QAM/ High CH



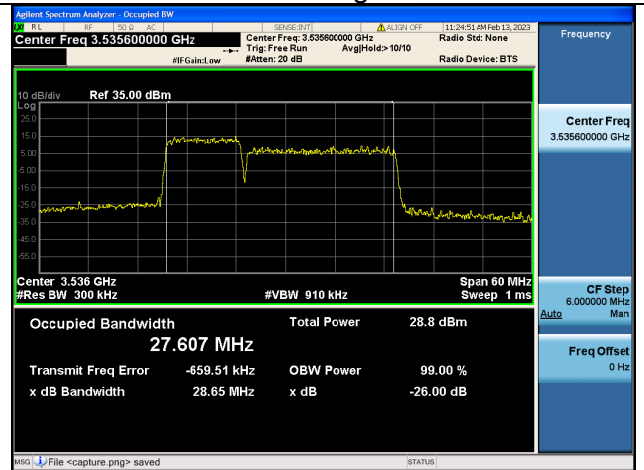
Band42C(3450~3500) / 20MHz+5MHz / QPSK / High CH



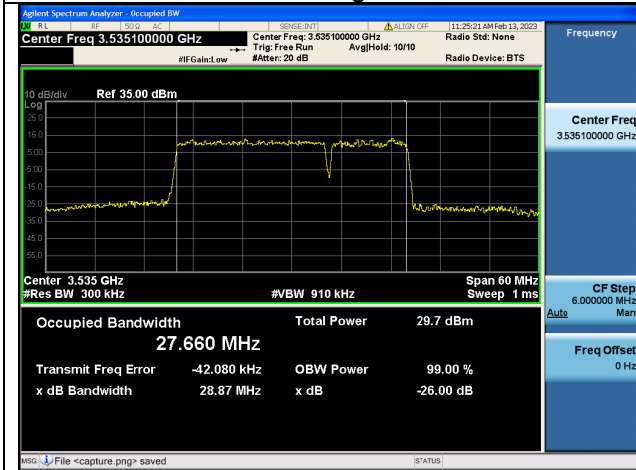
Band42C(3450~3500) / 20MHz+5MHz / 16QAM / High CH



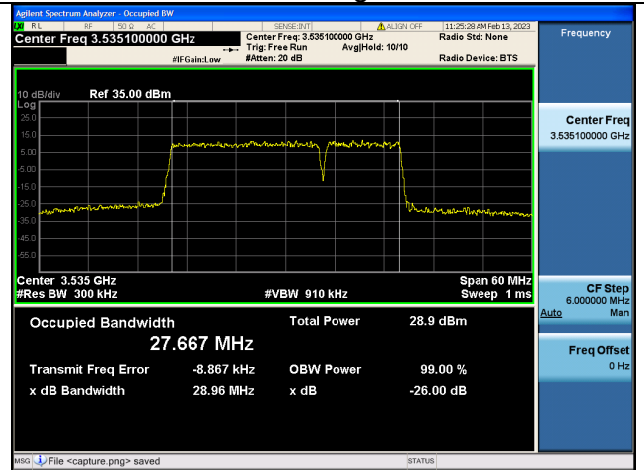
Band42C(3450~3500) / 10MHz+20MHz / QPSK / High CH



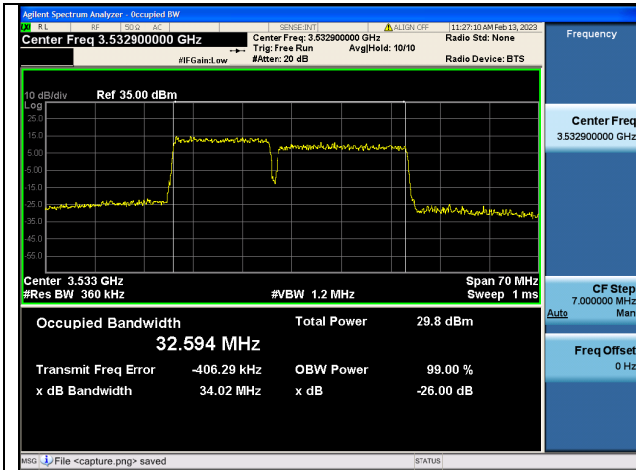
Band42C(3450~3500) / 10MHz+20MHz / 16QAM / High CH



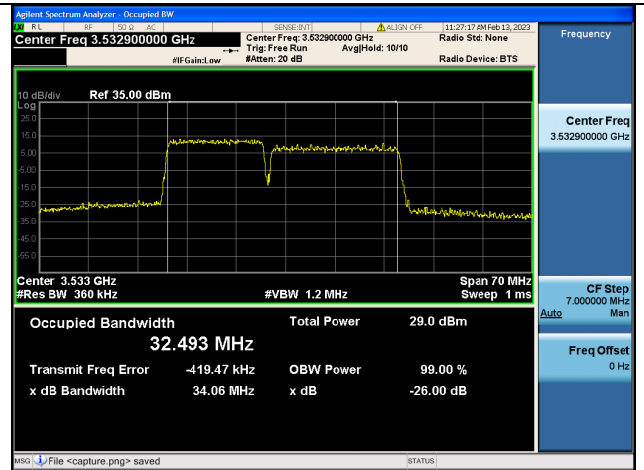
Band42C(3450~3500) / 20MHz+10MHz / QPSK / High CH



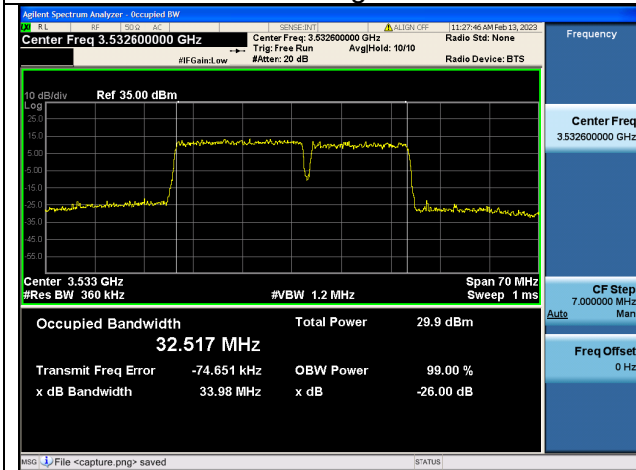
Band42C(3450~3500) / 20MHz+10MHz / 16QAM / High CH



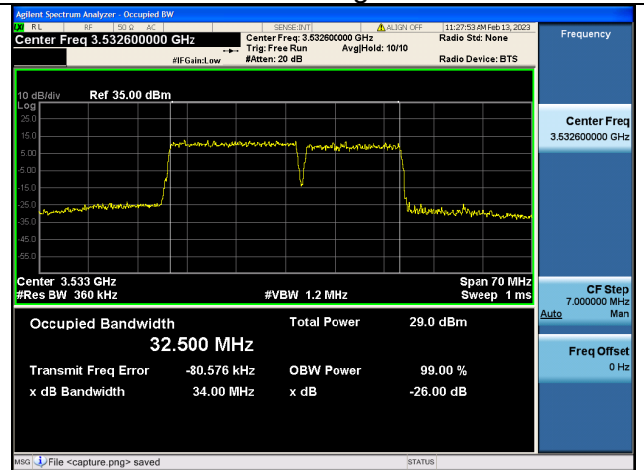
Band42C(3450~3500) / 15MHz+20MHz / QPSK/ High CH



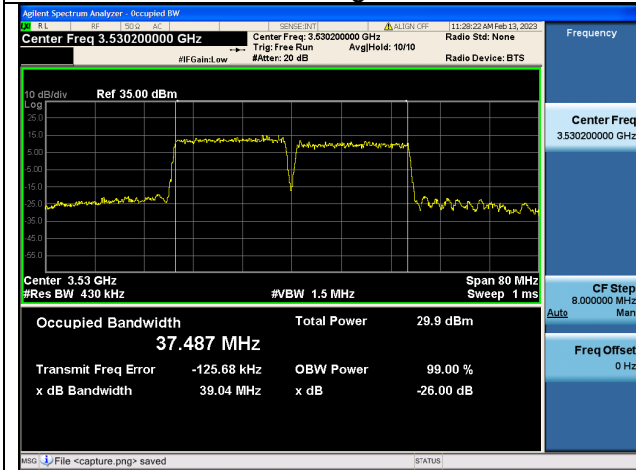
Band42C(3450~3500) / 15MHz+20MHz / 16QAM/ High CH



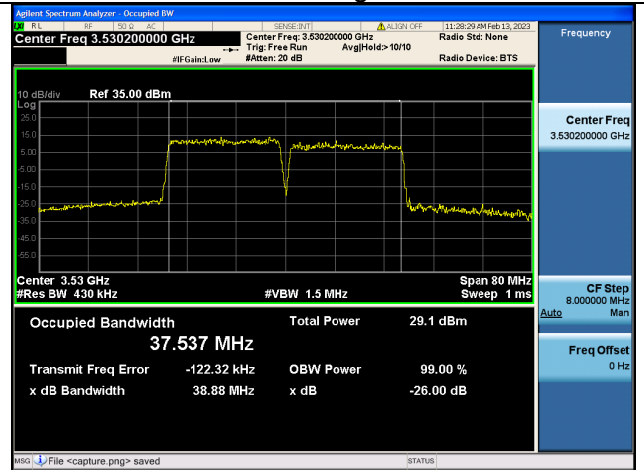
Band42C(3450~3500) / 20MHz+15MHz / QPSK/ High CH



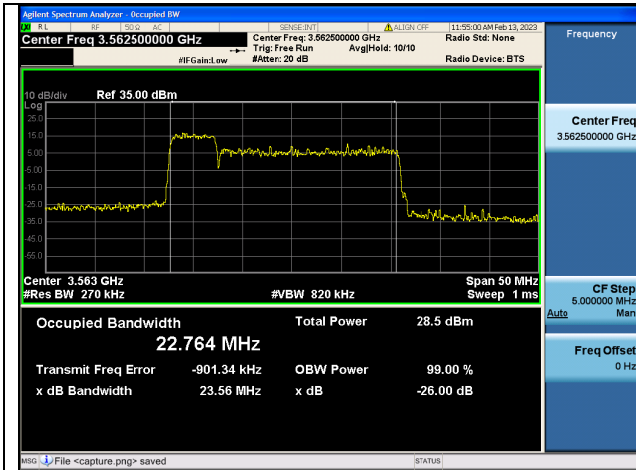
Band42C(3450~3500) / 20MHz+15MHz / 16QAM/ High CH



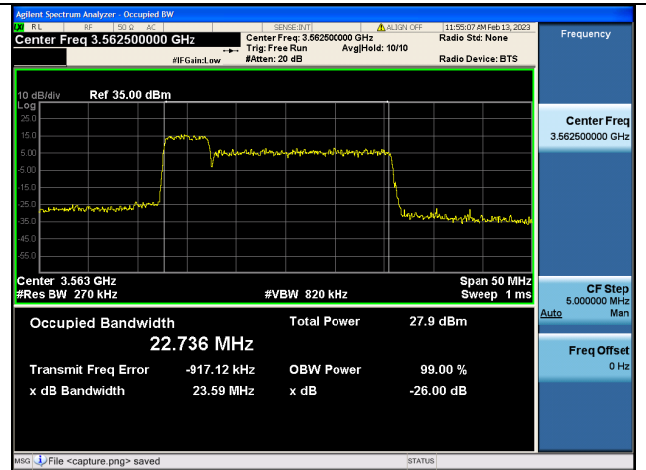
Band42C(3450~3500) / 20MHz+20MHz / QPSK/ High CH



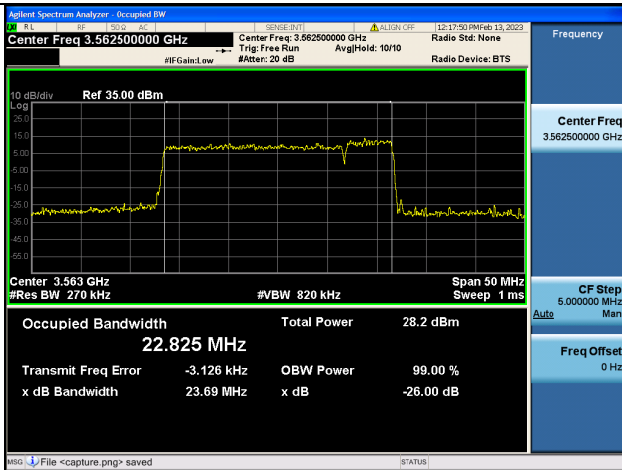
Band42C(3450~3500) / 20MHz+20MHz / 16QAM/ High CH



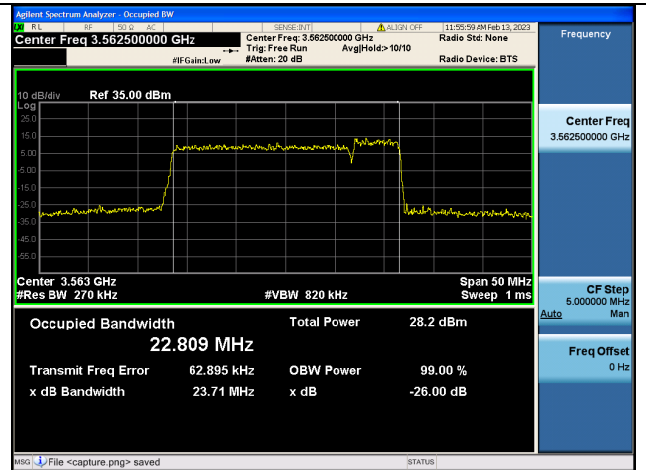
Band42C(3550~3600) / 5MHz+20MHz / QPSK / Low CH



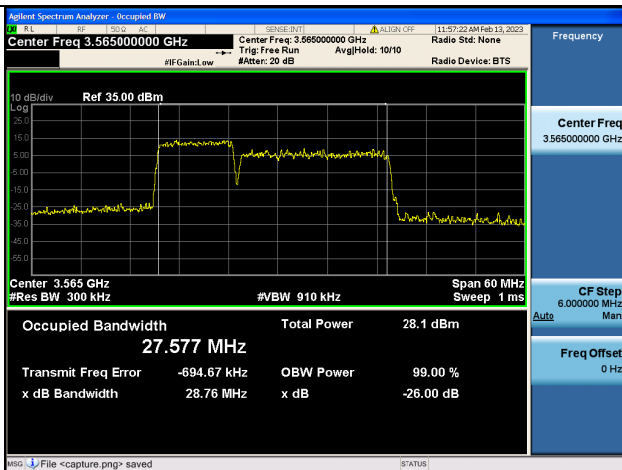
Band42C(3550~3600) / 5MHz+20MHz / 16QAM / Low CH



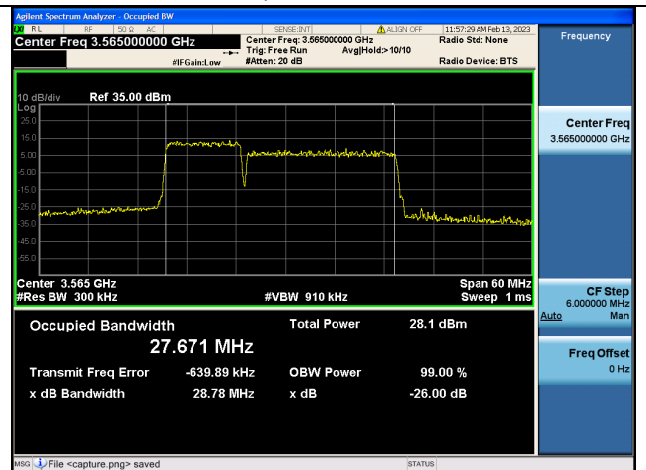
Band42C(3550~3600) / 20MHz+5MHz / QPSK / Low CH



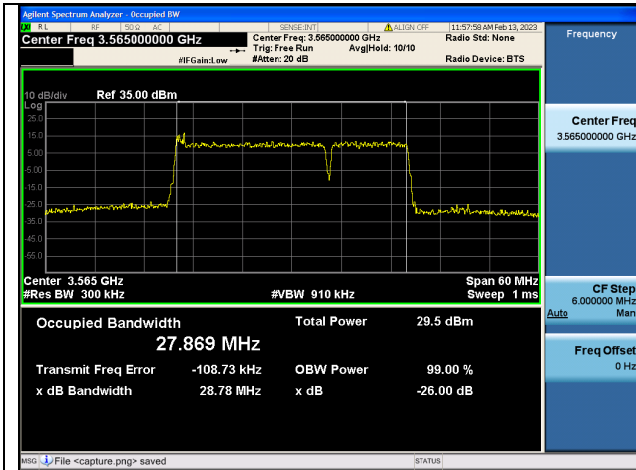
Band42C(3550~3600) / 20MHz+5MHz / 16QAM / Low CH



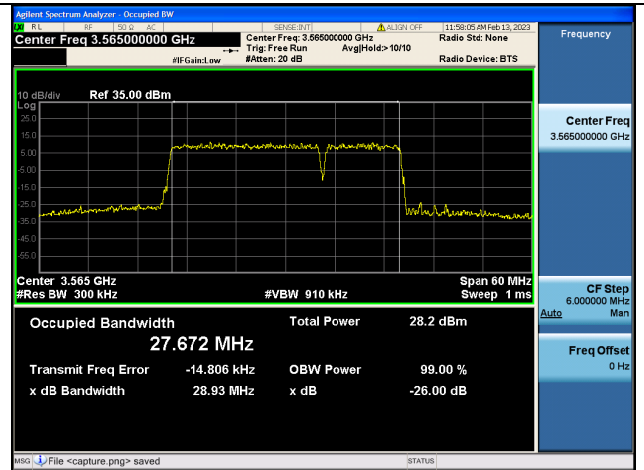
Band42C(3550~3600) / 10MHz+20MHz / QPSK / Low CH



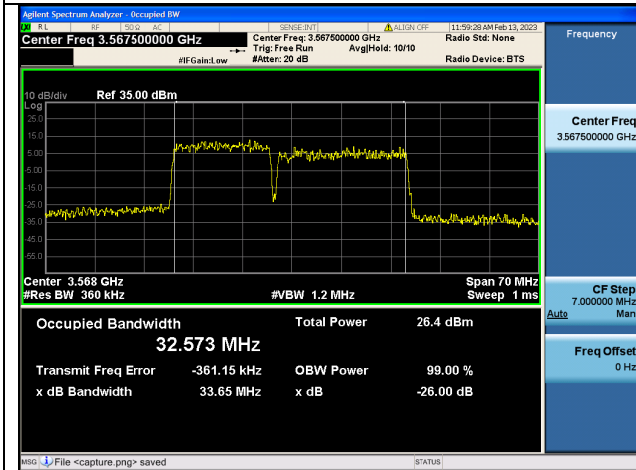
Band42C(3550~3600) / 10MHz+20MHz / 16QAM / Low CH



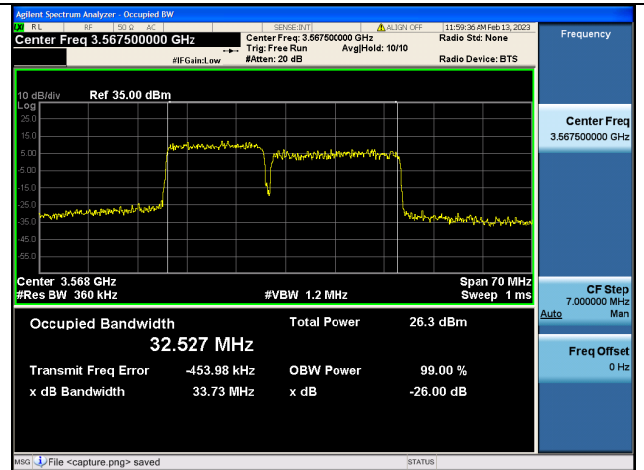
Band42C(3550~3600) / 20MHz+10MHz / QPSK/ Low CH



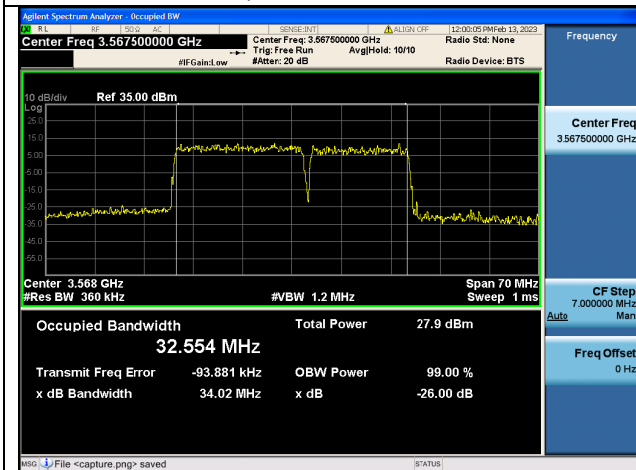
Band42C(3550~3600) / 20MHz+10MHz / 16QAM/ Low CH



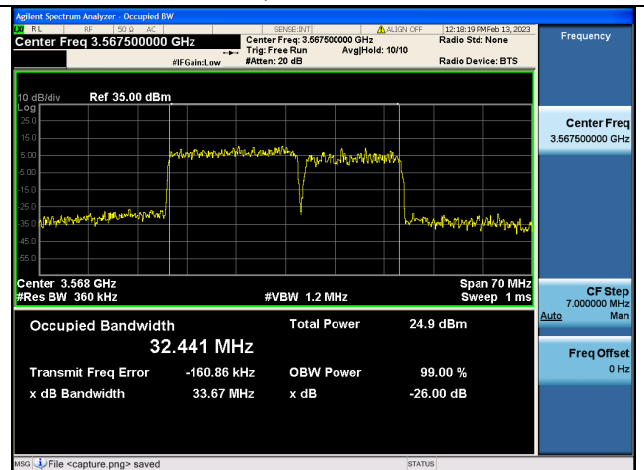
Band42C(3550~3600) / 15MHz+20MHz / QPSK/ Low CH



Band42C(3550~3600) / 15MHz+20MHz / 16QAM/ Low CH

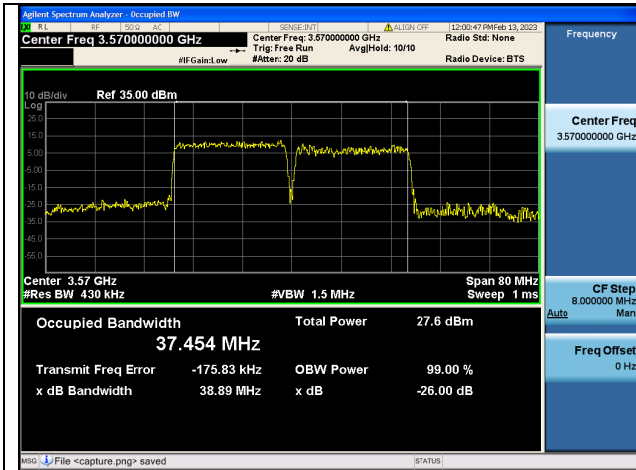


Band42C(3550~3600) / 20MHz+15MHz / QPSK/ Low CH

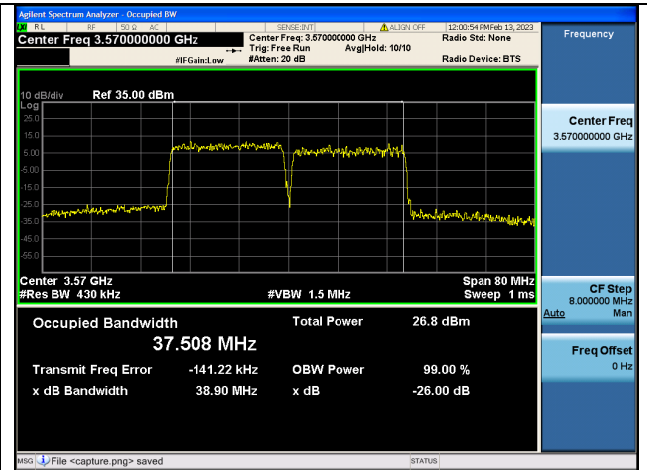


Band42C(3550~3600) / 20MHz+15MHz / 16QAM/ Low CH

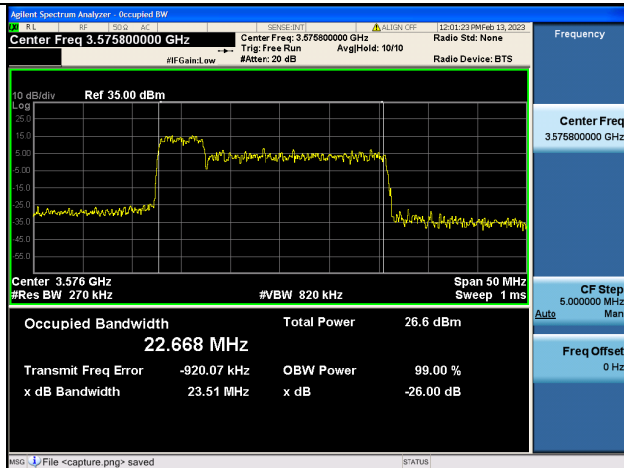




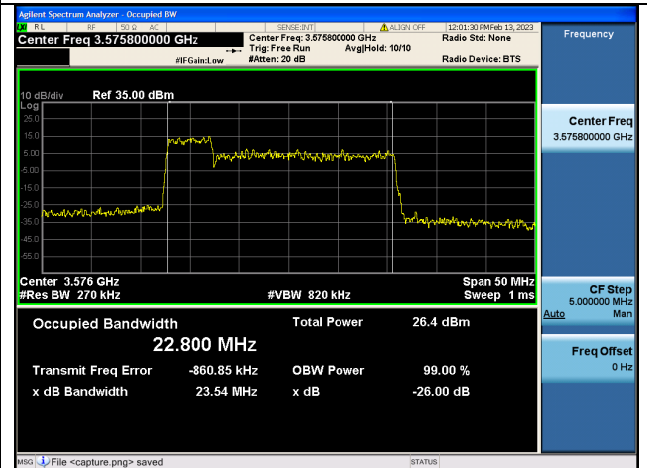
Band42C(3550~3600) / 20MHz+20MHz / QPSK/ Low CH



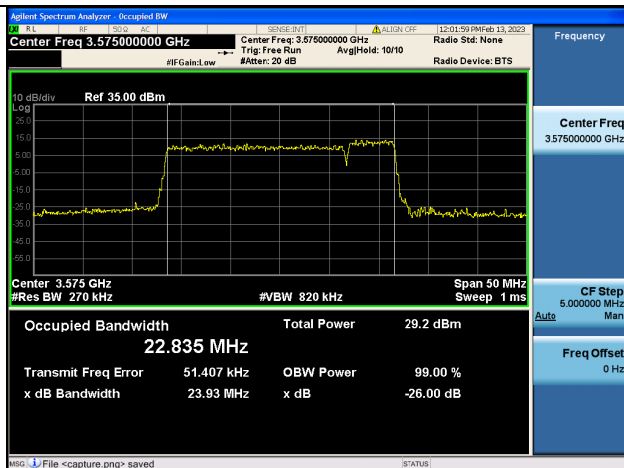
Band42C(3550~3600) / 20MHz+20MHz / 16QAM/ Low CH



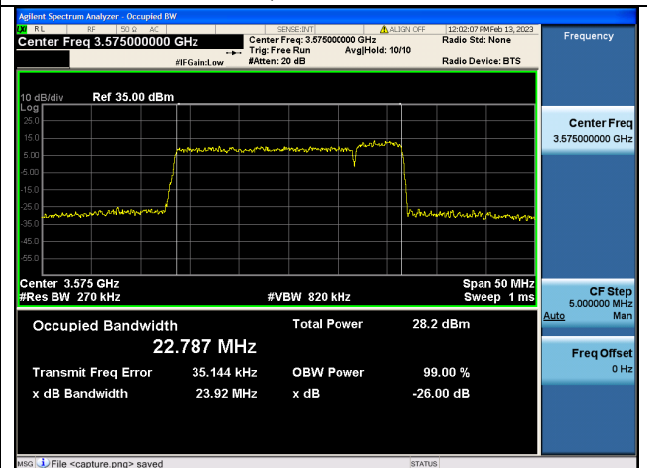
Band42C(3550~3600) / 5MHz+20MHz / QPSK/ Mid CH



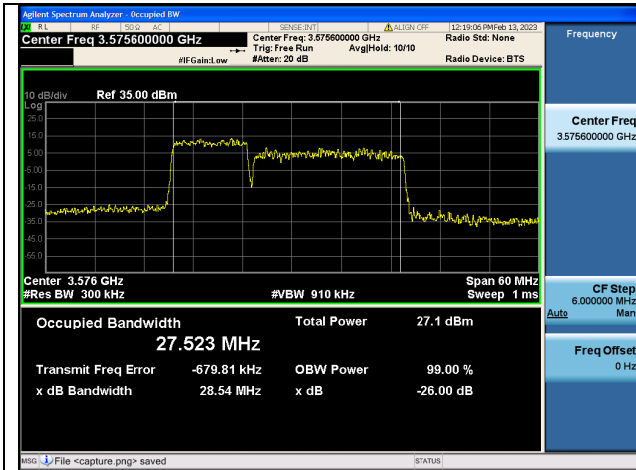
Band42C(3550~3600) / 5MHz+20MHz / 16QAM/ Mid CH



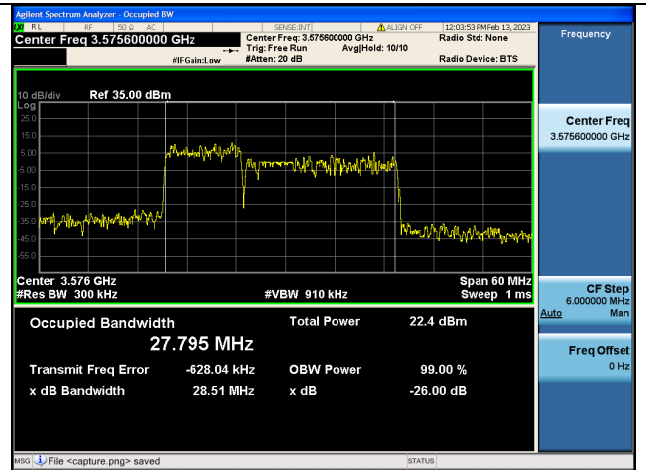
Band42C(3550~3600) / 20MHz+5MHz / QPSK/ Mid CH



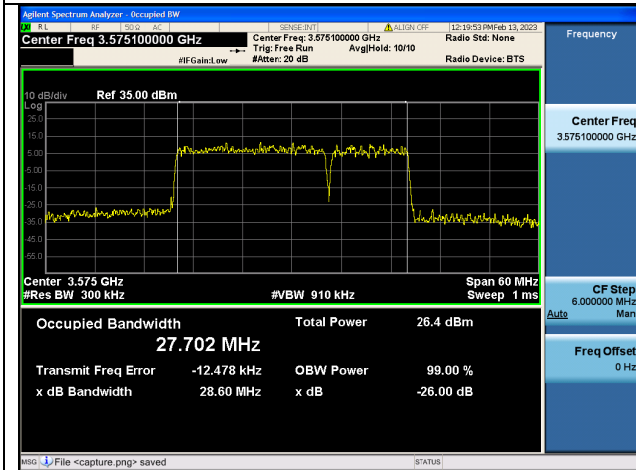
Band42C(3550~3600) / 20MHz+5MHz / 16QAM/ Mid CH



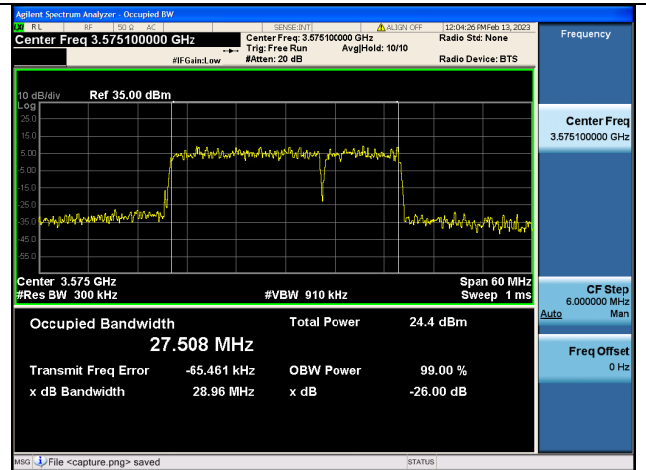
Band42C(3550~3600) / 10MHz+20MHz / QPSK/ Mid CH



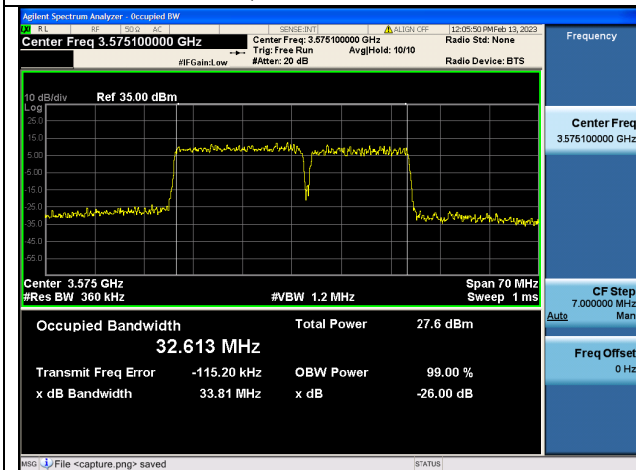
Band42C(3550~3600) / 10MHz+20MHz / 16QAM/ Mid CH



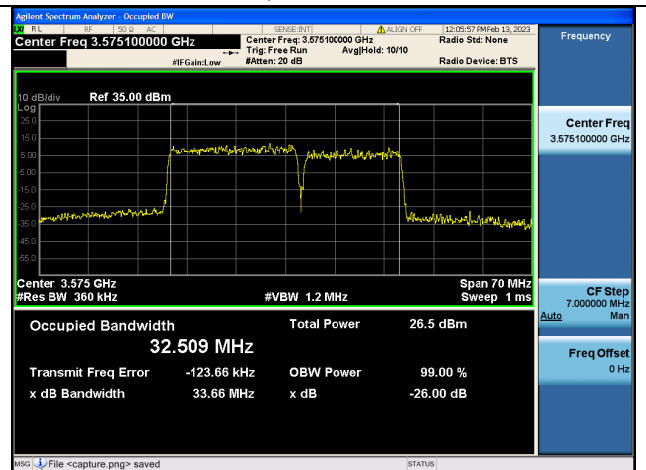
Band42C(3550~3600) / 20MHz+10MHz / QPSK/ Mid CH



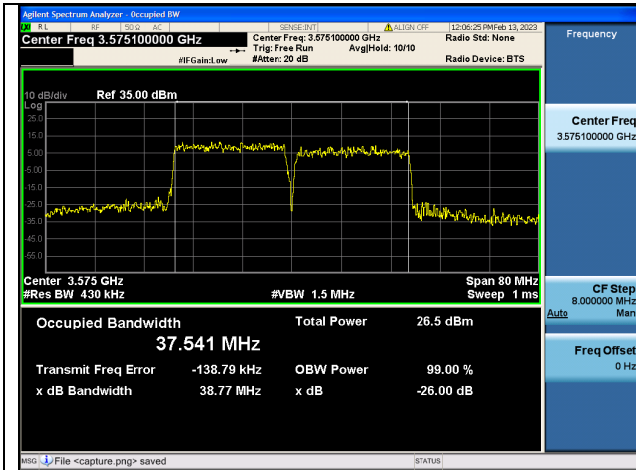
Band42C(3550~3600) / 20MHz+10MHz / 16QAM/ Mid CH



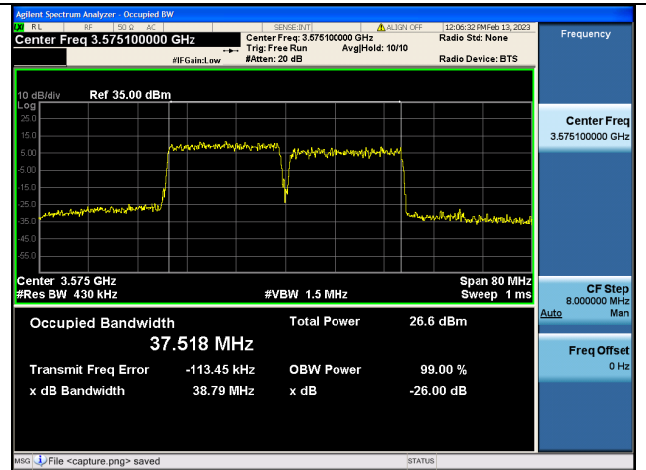
Band42C(3550~3600) / 20MHz+15MHz / QPSK/ Mid CH



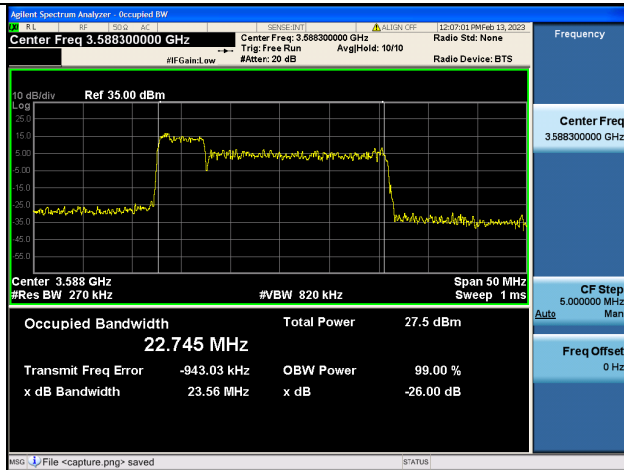
Band42C(3550~3600) / 20MHz+15MHz / 16QAM/ Mid CH



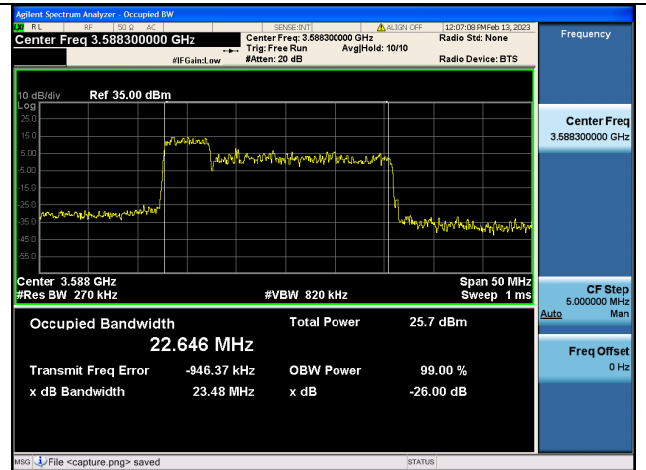
Band42C(3550~3600) / 20MHz+20MHz / QPSK/ Mid CH



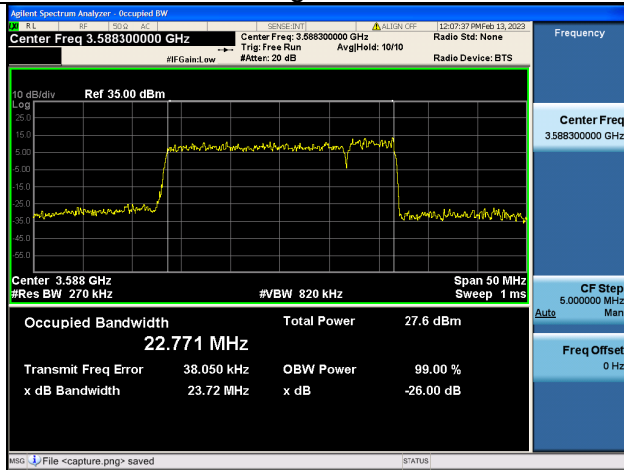
Band42C(3550~3600) / 20MHz+20MHz / 16QAM/ Mid CH



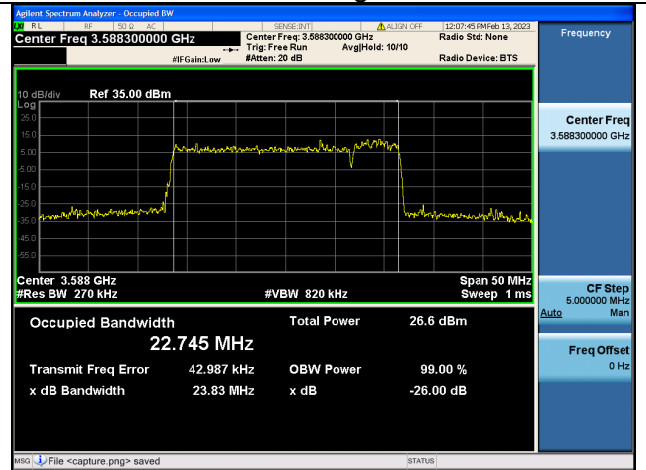
Band42C(3550~3600) / 5MHz+20MHz / QPSK/ High CH



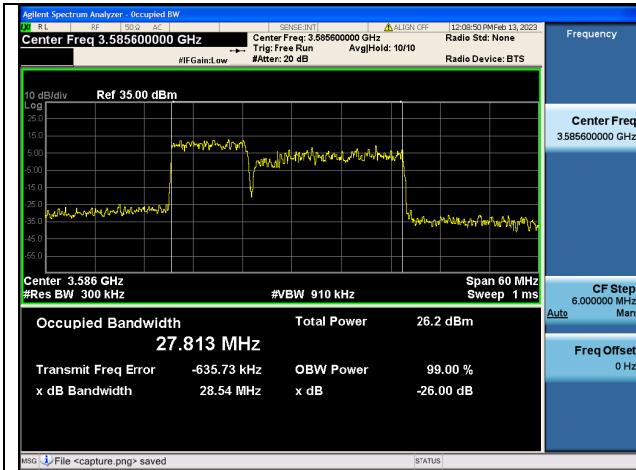
Band42C(3550~3600) / 5MHz+20MHz / 16QAM/ High CH



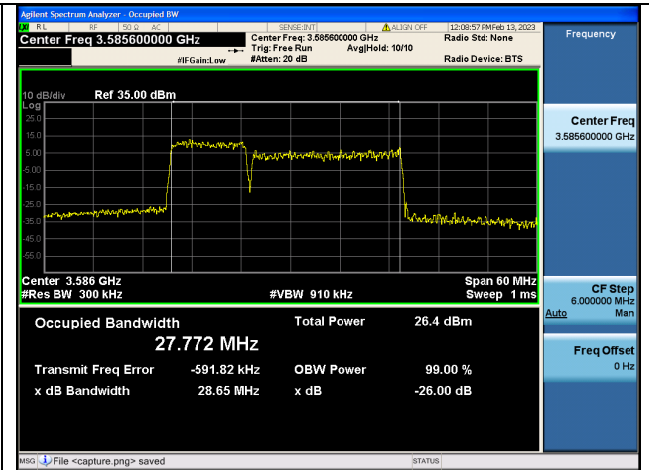
Band42C(3550~3600) / 20MHz+5MHz / QPSK/ High CH



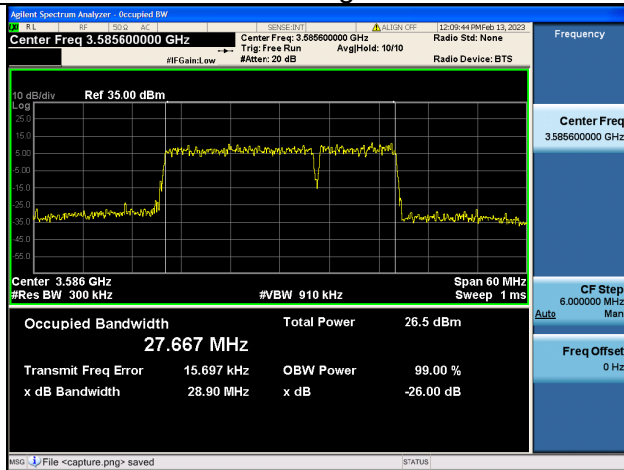
Band42C(3550~3600) / 20MHz+5MHz / 16QAM/ High CH



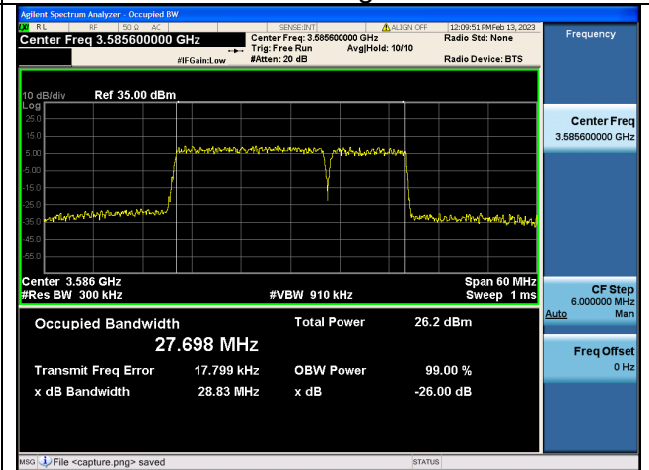
Band42C(3550~3600) / 10MHz+20MHz / QPSK/ High CH



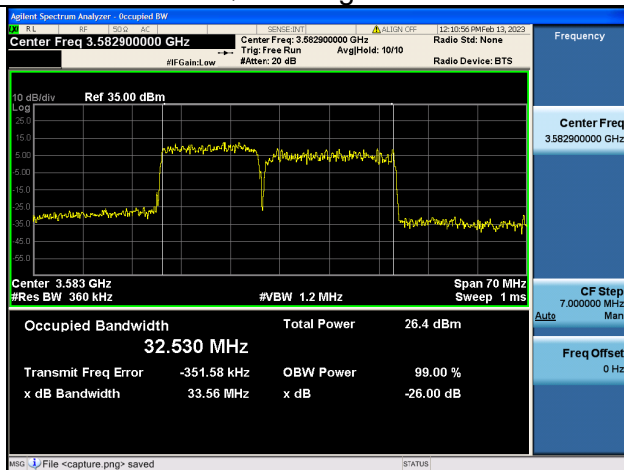
Band42C(3550~3600) / 10MHz+20MHz / 16QAM/ High CH



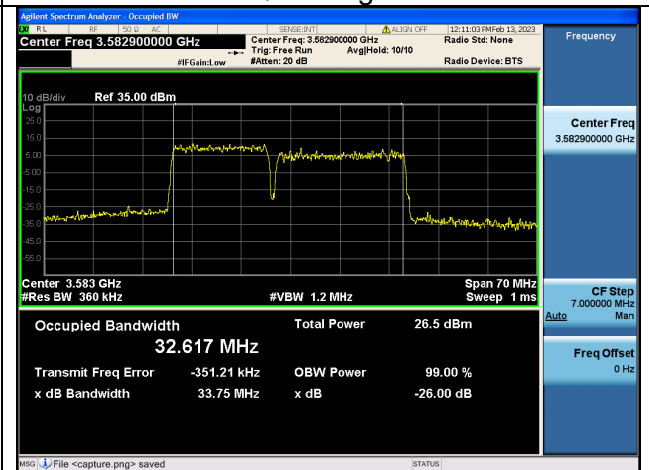
Band42C(3550~3600) / 20MHz+10MHz / QPSK/ High CH



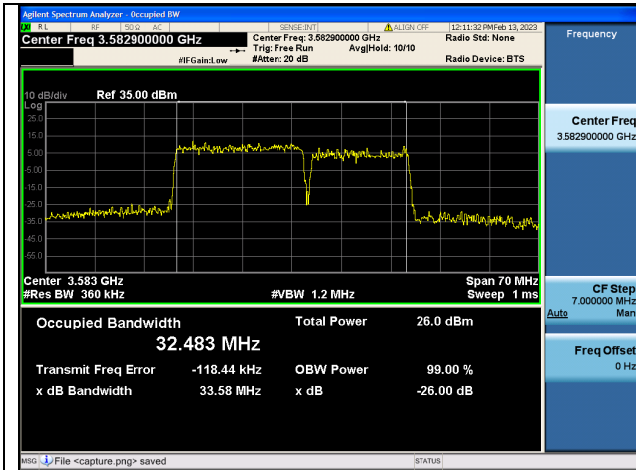
Band42C(3550~3600) / 20MHz+10MHz / 16QAM/ High CH



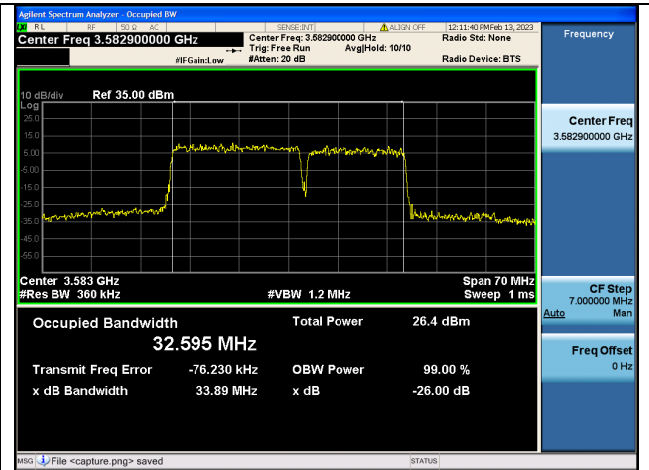
Band42C(3550~3600) / 15MHz+20MHz / QPSK/ High CH



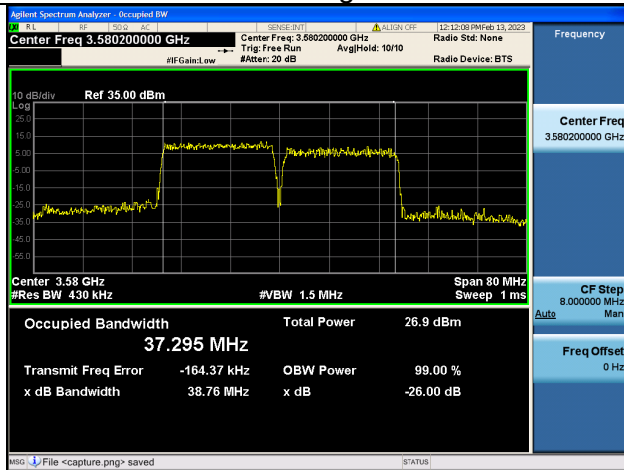
Band42C(3550~3600) / 15MHz+20MHz / 16QAM/ High CH



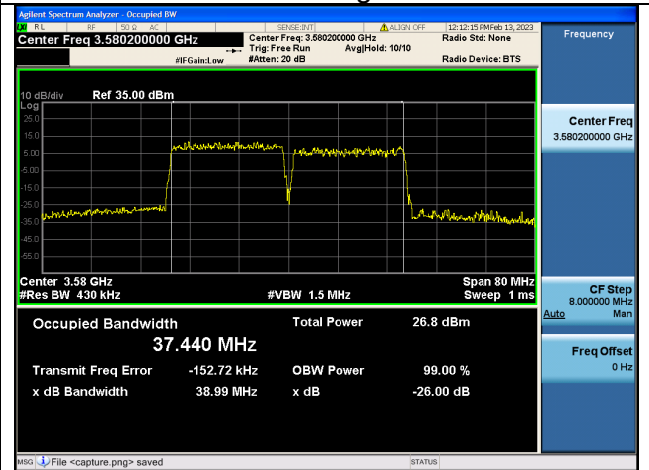
Band42C(3550~3600) / 20MHz+15MHz / QPSK/ High CH



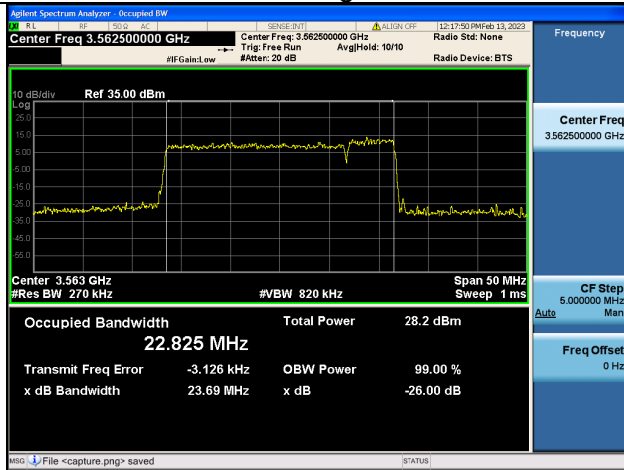
Band42C(3550~3600) / 20MHz+15MHz / 16QAM/ High CH



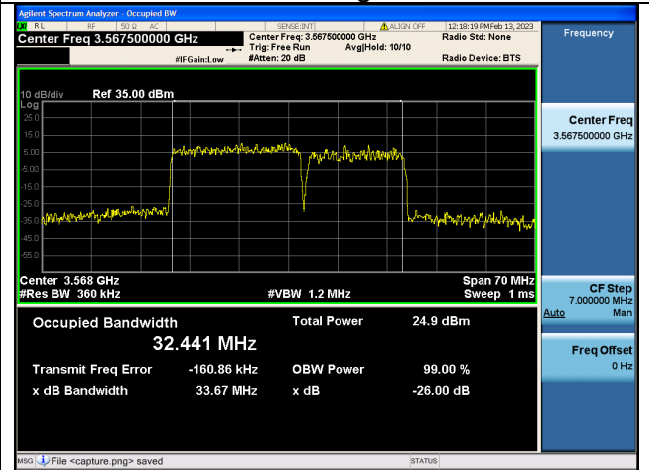
Band42C(3550~3600) / 20MHz+20MHz / QPSK/ High CH



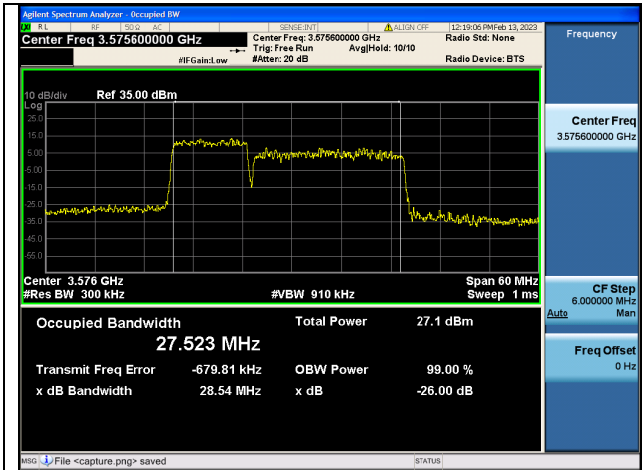
Band42C(3550~3600) / 20MHz+20MHz / 16QAM/ High CH



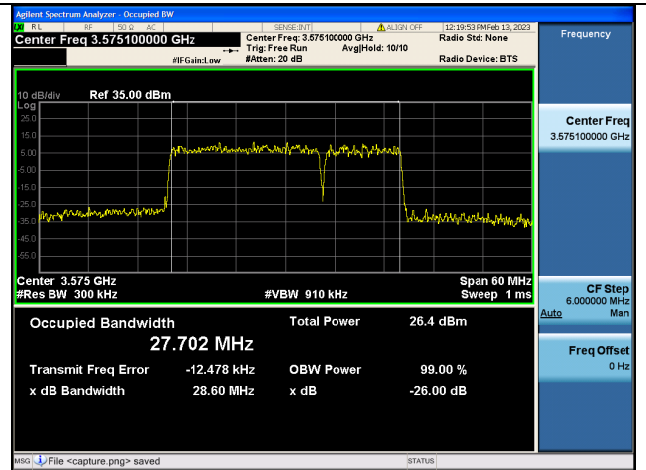
Band42C(3550~3600) / 20MHz+5MHz / QPSK/ Low CH



Band42C(3550~3600) / 20MHz+15MHz / 16QAM/ Low CH



Band42C(3550~3600) / 10MHz+20MHz / QPSK/ Mid CH



Band42C(3550~3600) / 20MHz+10MHz / QPSK/ Mid CH

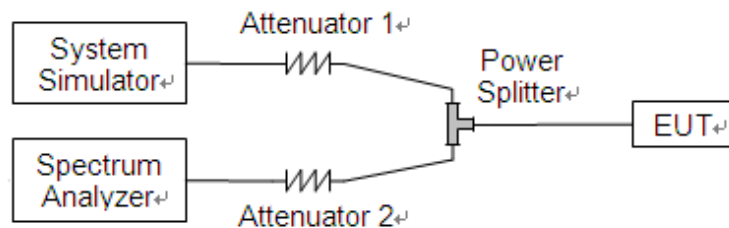
## 2.3. Conducted Spurious Emissions

### 2.3.1. Requirement

According to FCC section 27.53(n)(2) for LTE Band 42(3450~3550), for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

According to FCC section 96.41(e) for LTE Band 42(3550~3600):, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed  $-40$ dBm/MHz.

### 2.3.2. Test Description

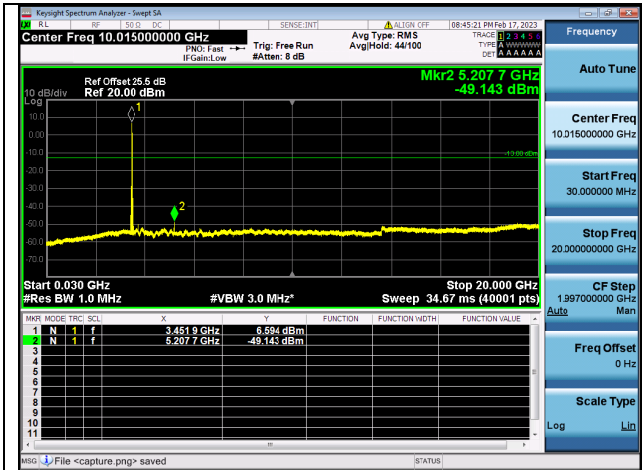


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

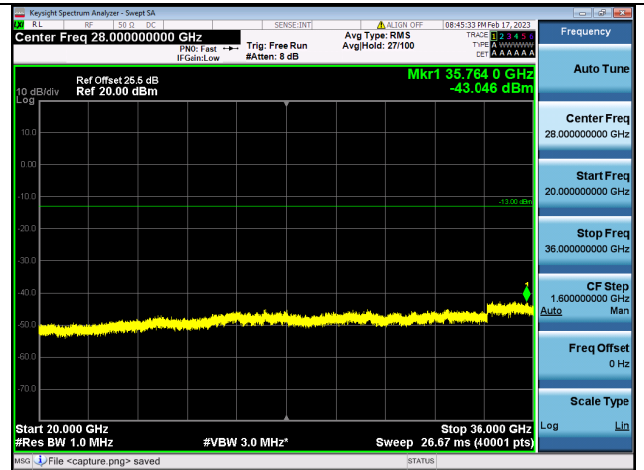
### 2.3.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

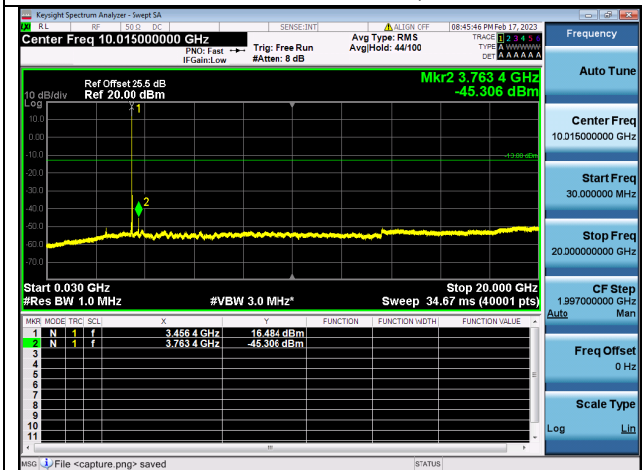
### 2.3.4. Test Result



Band42C(3450~3550)-30M-20G / 5MHz+20MHz / 1RB+1RB/ QPSK / Low CH



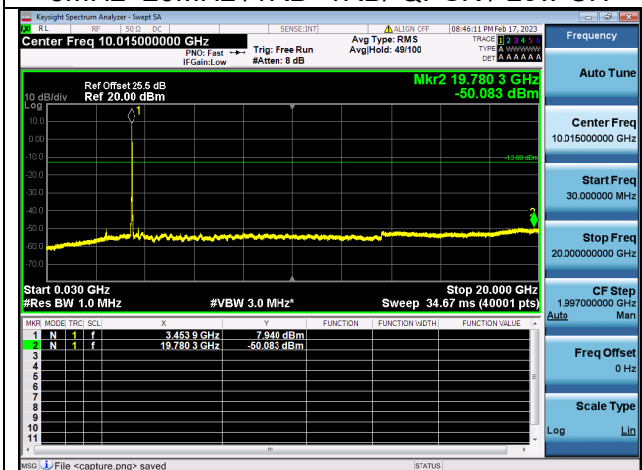
Band42C(3450~3550)-20G-36G / 5MHz+20MHz / 1RB+1RB/ QPSK / Low CH



Band42C(3450~3550)-30M-20G / 5MHz+20MHz / 1RB+1RB/ QPSK / Low CH



Band42C(3450~3550)-20G-36G / 5MHz+20MHz / 1RB+1RB/ QPSK / Low CH

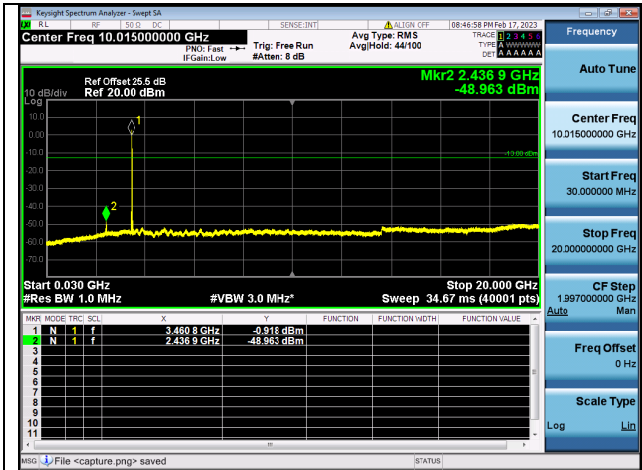


Band42C(3450~3550)-30M-20G / 5MHz+20MHz / 25RB+100RB/ QPSK / Low CH



Band42C(3450~3550)-20G-36G / 5MHz+20MHz / 25RB+100RB/ QPSK / Low CH

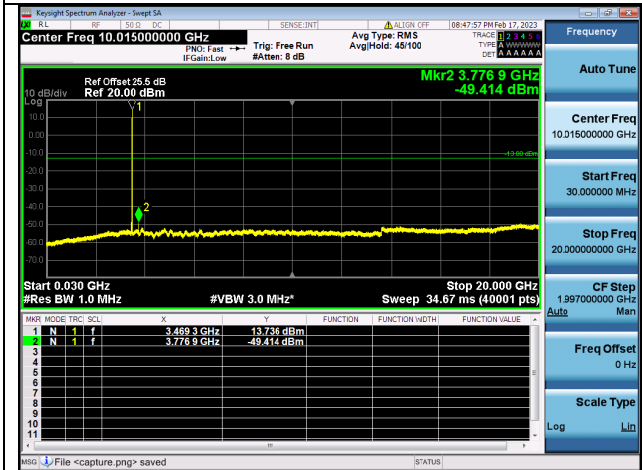




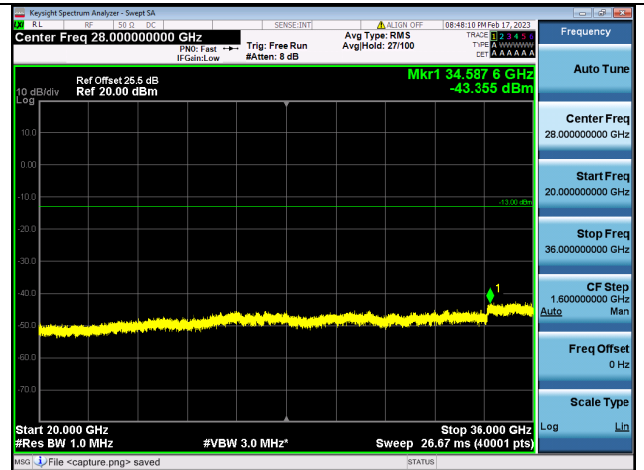
Band42C(3450~3550)-30M-20G / 20MHz+5MHz / 1RB+1RB/ QPSK / Low CH



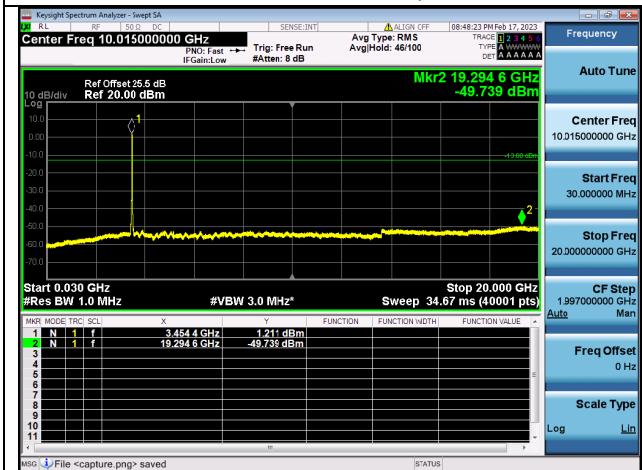
Band42C(3450~3550)-20G-36G / 20MHz+5MHz / 1RB+1RB/ QPSK / Low CH



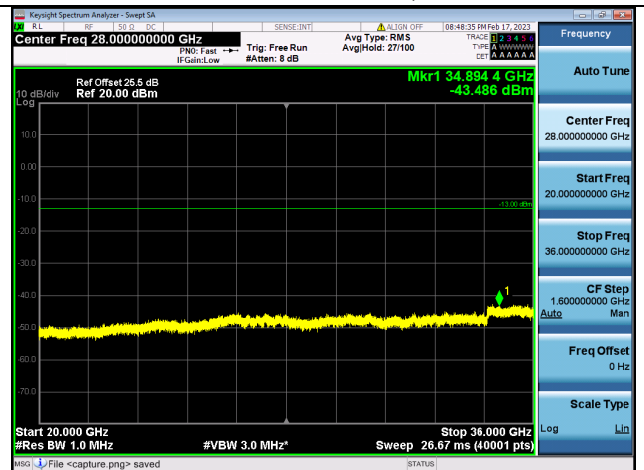
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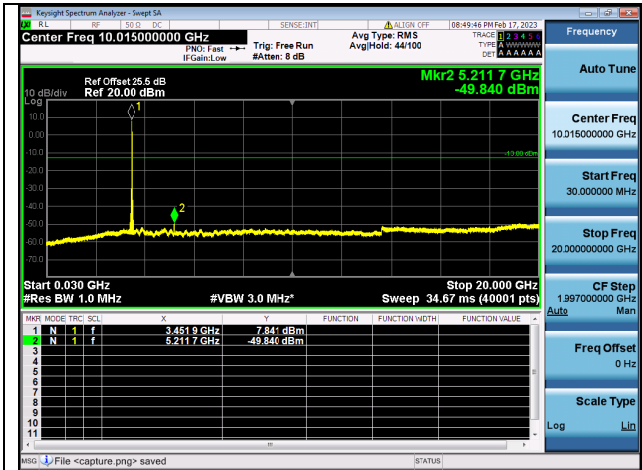
Band42C(3450~3550)-20G-36G / 20MHz+5MHz / 1RB+1RB/ QPSK / Low CH



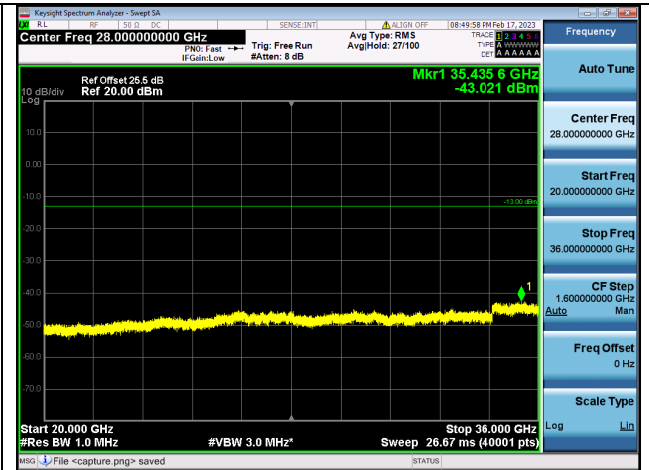
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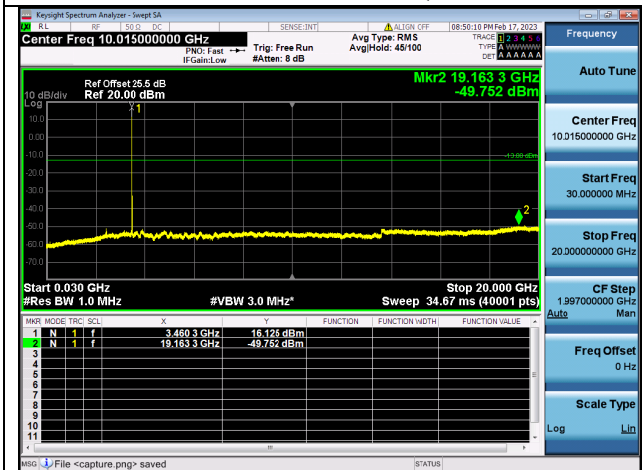
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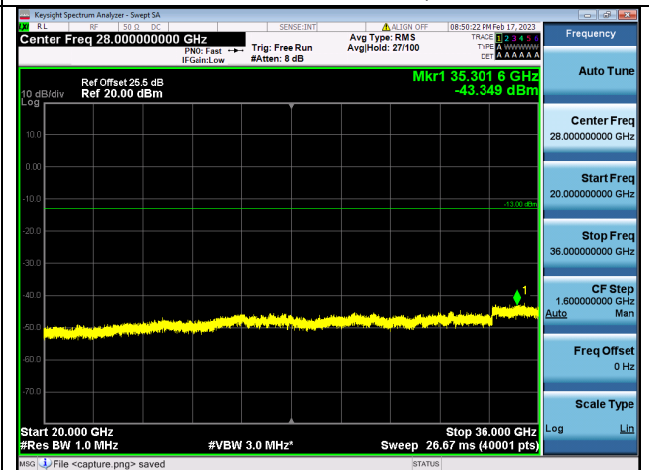
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10MHz+20MHz / 1RB+1RB/ QPSK / Low CH



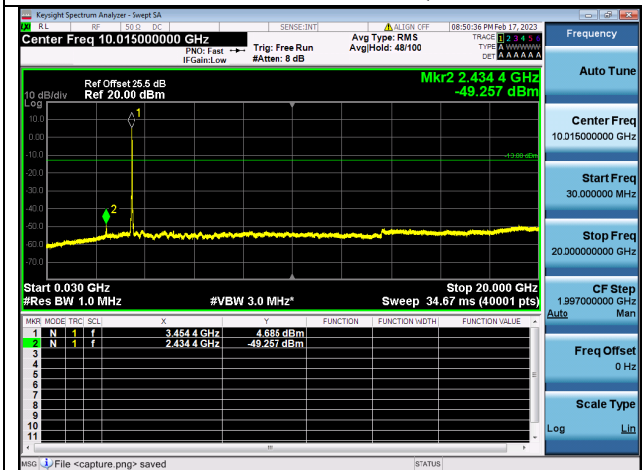
Band42C(3450~3550)-20G-36G /  
10MHz+20MHz / 1RB+1RB/ QPSK / Low CH



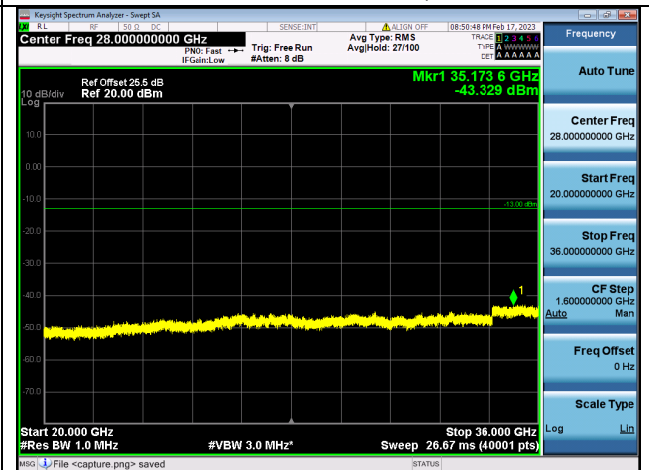
Band42C(3450~3550)-30M-20G /  
10MHz+20MHz / 1RB+1RB/ QPSK / Low CH



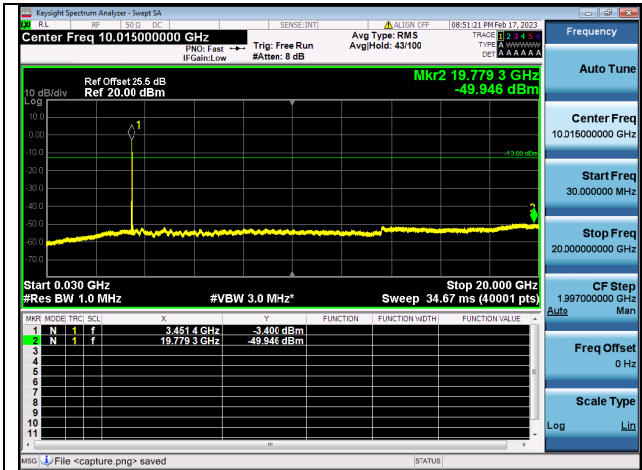
Band42C(3450~3550)-20G-36G /  
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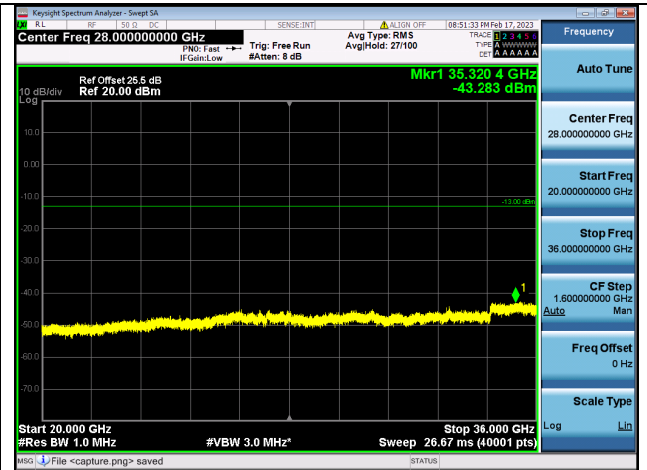
Band42C(3450~3550)-30M-20G /  
10MHz+20MHz / 50RB+100RB/ QPSK / Low  
CH



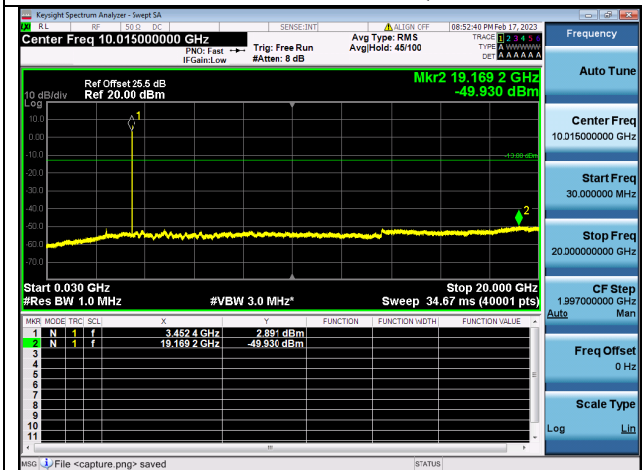
Band42C(3450~3550)-20G-36G /  
10MHz+20MHz / 50RB+100RB/ QPSK / Low  
CH



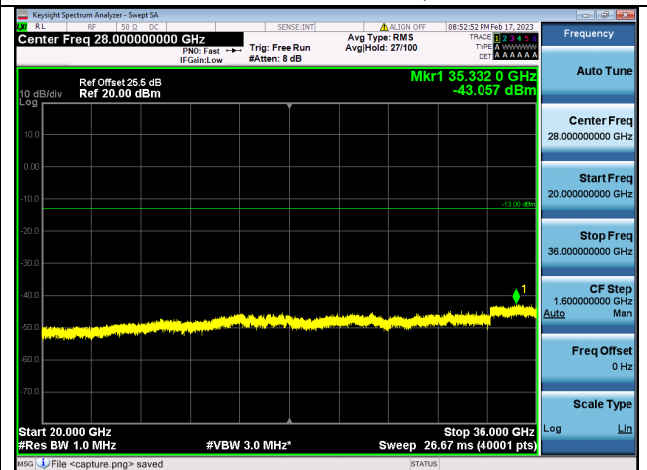
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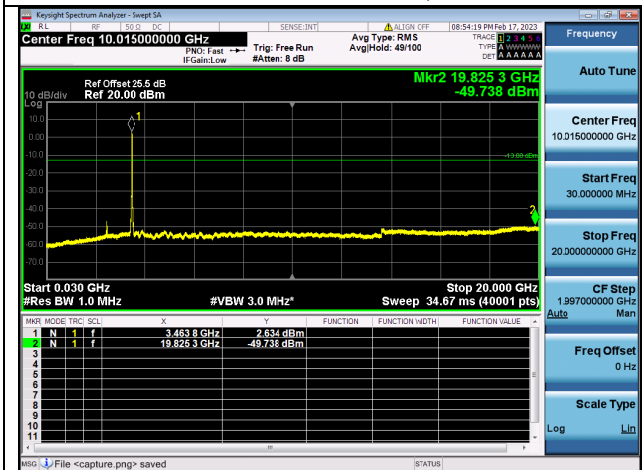
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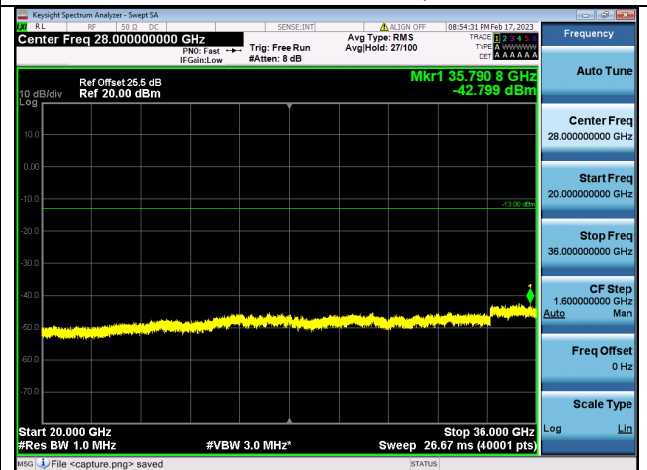
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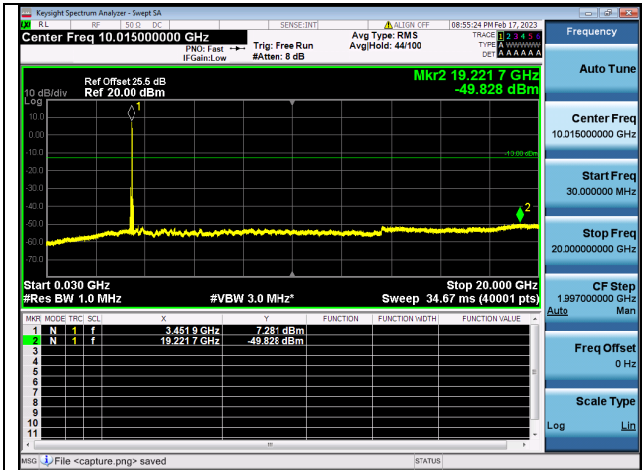
Band42C(3450~3550)-20G-36G /  
20MHz+10MHz / 1RB+1RB/ QPSK / Low CH



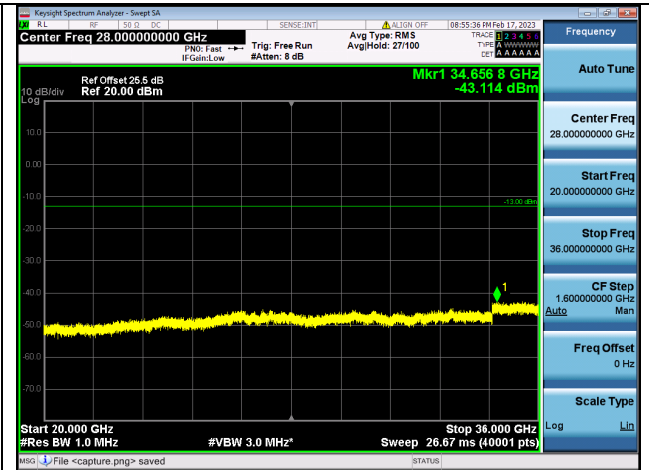
Band42C(3450~3550)-30M-20G /  
20MHz+10MHz / 100RB+50RB/ QPSK / Low  
CH



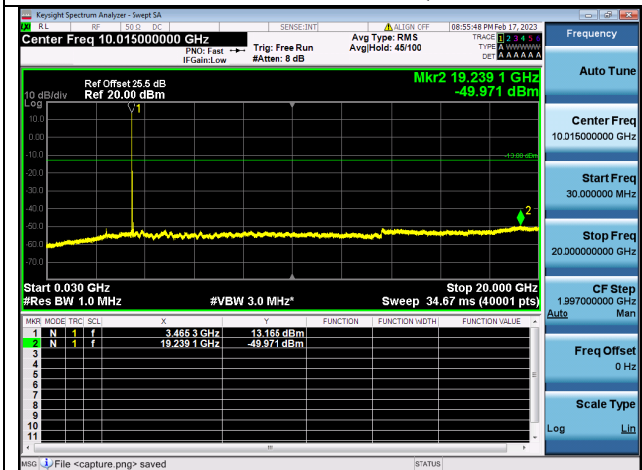
Band42C(3450~3550)-20G-36G /  
20MHz+10MHz / 100RB+50RB/ QPSK / Low  
CH



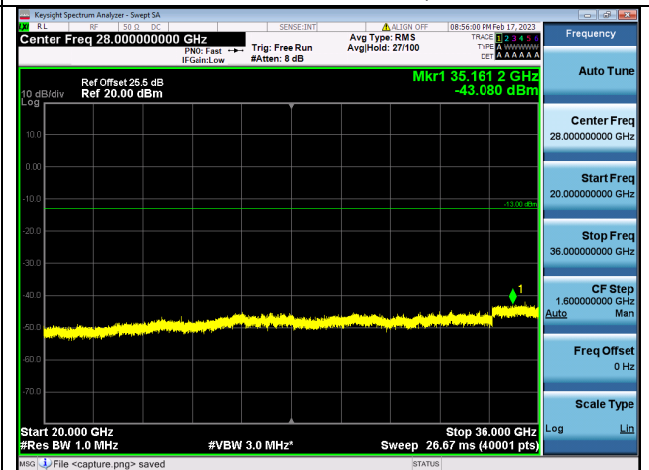
Band42C(3450~3550)-30M-20G /  
15MHz+20MHz / 1RB+1RB/ QPSK / Low CH



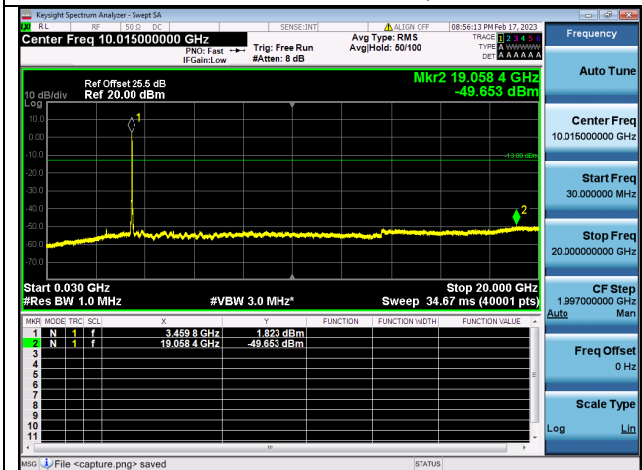
Band42C(3450~3550)-20G-36G /  
15MHz+20MHz / 1RB+1RB/ QPSK / Low CH



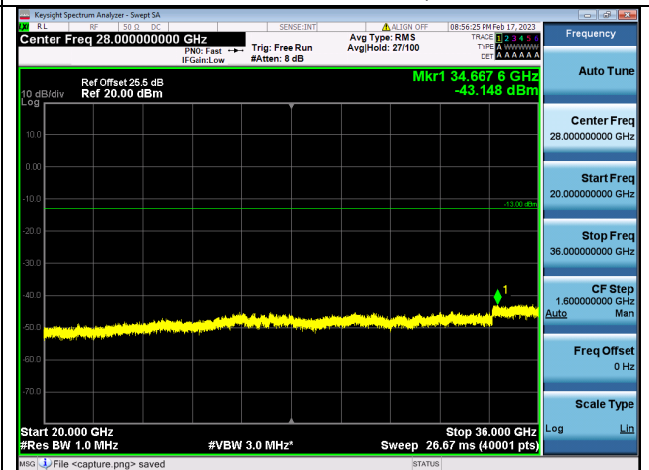
Band42C(3450~3550)-30M-20G /  
15MHz+20MHz / 1RB+1RB/ QPSK / Low CH



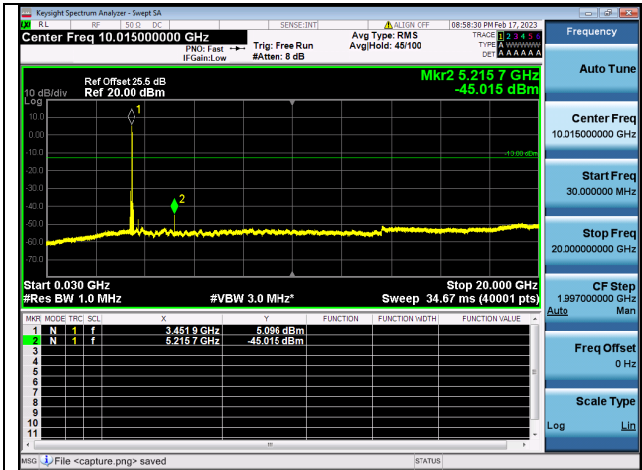
Band42C(3450~3550)-20G-36G /  
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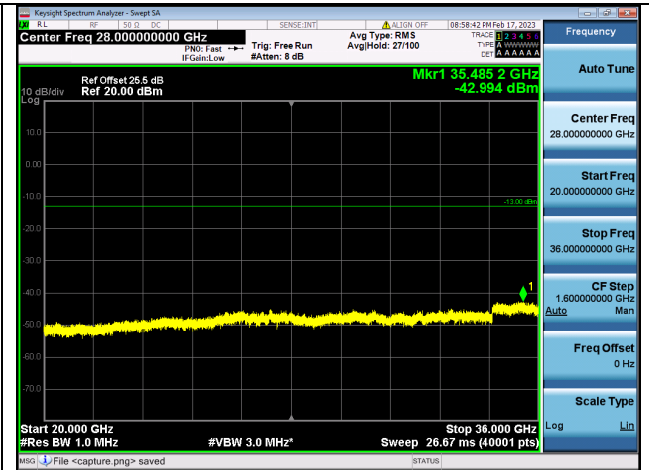
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CH



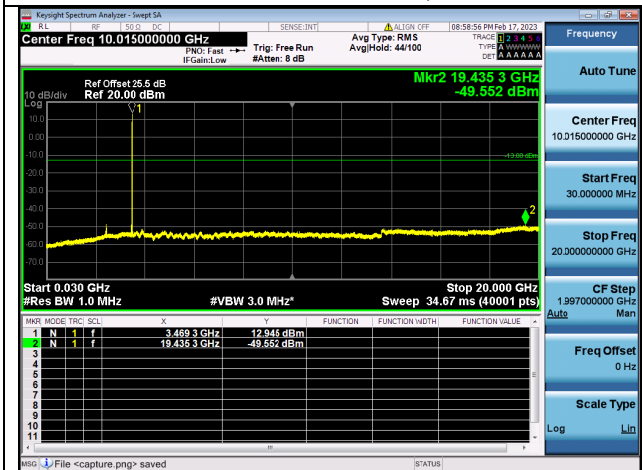
Band42C(3450~3550)-20G-36G /  
15MHz+20MHz / 75RB+100RB/ QPSK / Low  
CH



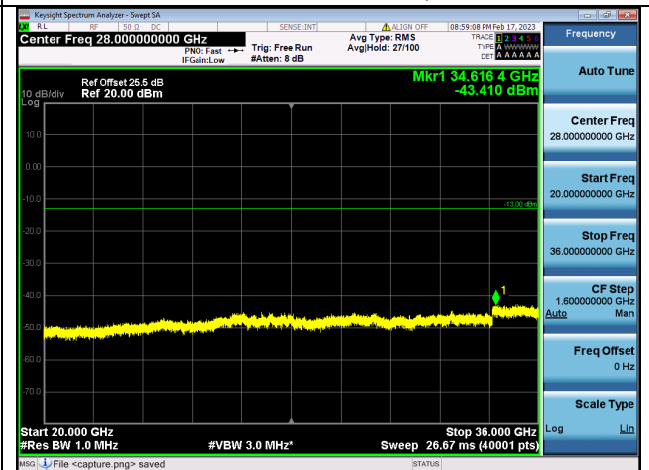
Band42C(3450~3550)-30M-20G /  
20MHz+15MHz / 1RB+1RB/ QPSK / Low CH



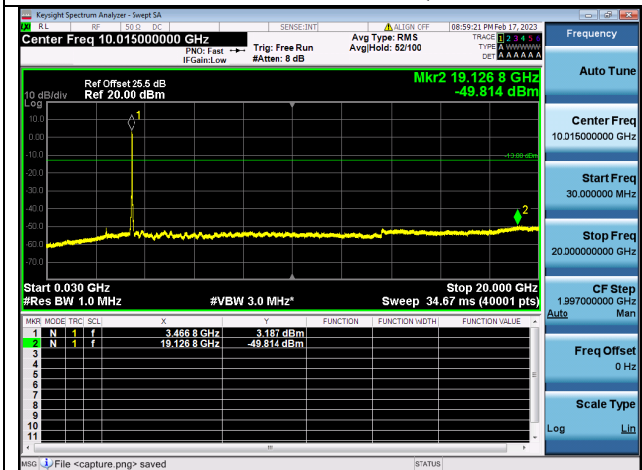
Band42C(3450~3550)-20G-36G /  
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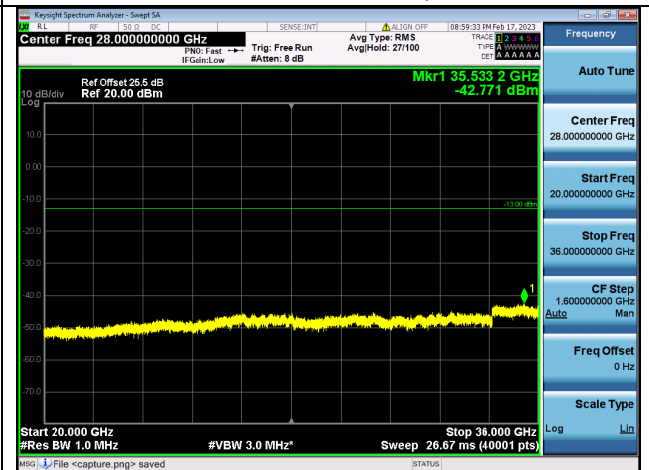
Band42C(3450~3550)-30M-20G /  
20MHz+15MHz / 1RB+1RB/ QPSK / Low CH



Band42C(3450~3550)-20G-36G /  
20MHz+15MHz / 1RB+1RB/ QPSK / Low CH



Band42C(3450~3550)-30M-20G /  
20MHz+15MHz / 100RB+75RB/ QPSK / Low  
CH



Band42C(3450~3550)-20G-36G /  
20MHz+15MHz / 100RB+75RB/ QPSK / Low  
CH