

n26, Channel Bandwidth 5MHz

Channel 165300
(826.5MHz)

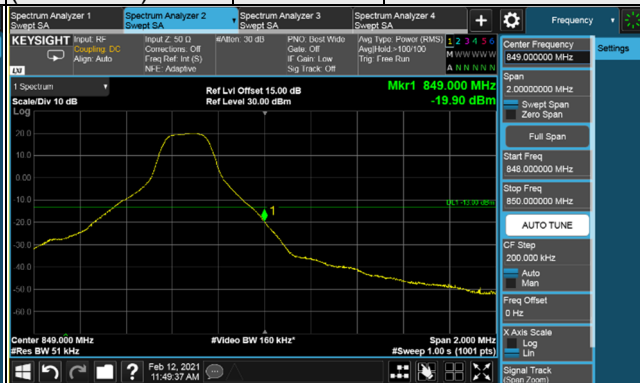
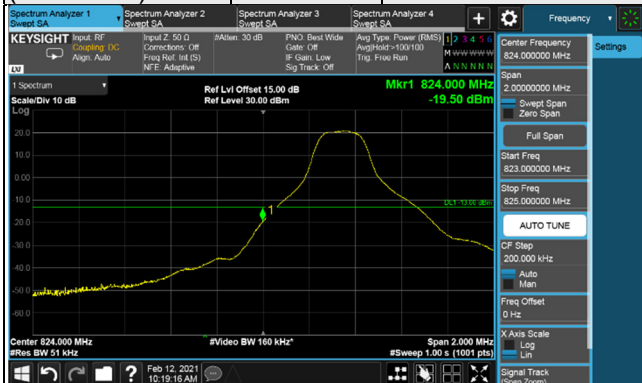
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 169300
(846.5MHz)

$\pi/2$ BPSK

1 RB / 24 RB Offset



Channel 165300
(826.5MHz)

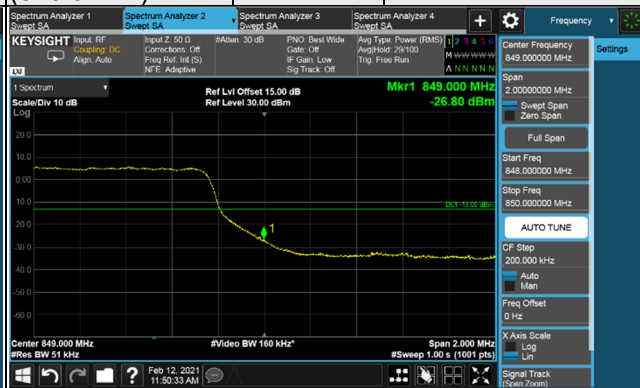
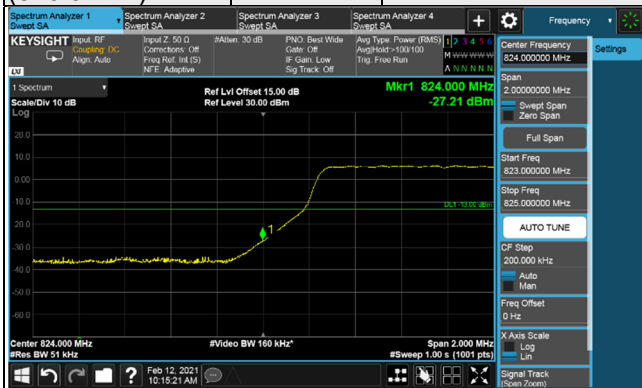
$\pi/2$ BPSK

25 RB / 0 RB Offset

Channel 169300
(846.5MHz)

$\pi/2$ BPSK

25 RB / 0 RB Offset



n26, Channel Bandwidth 10MHz

Channel 165800
(829.0MHz)

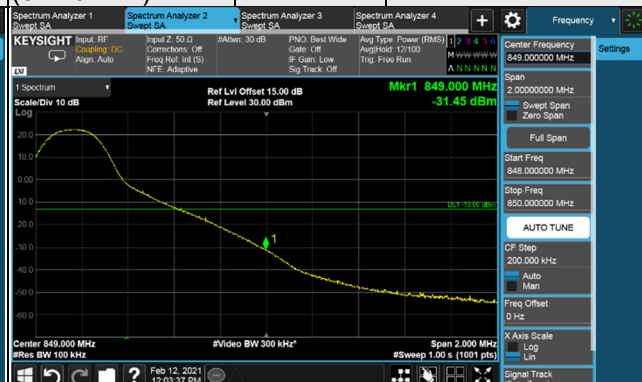
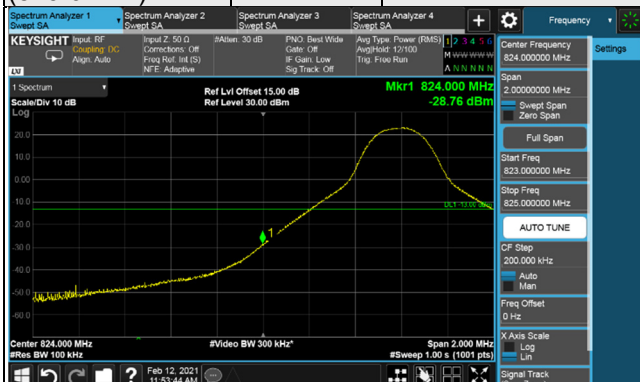
$\pi/2$ BPSK

1 RB / 0 RB Offset

Channel 168800
(849.0MHz)

$\pi/2$ BPSK

1 RB / 49 RB Offset



Channel 165800
(829.0MHz)

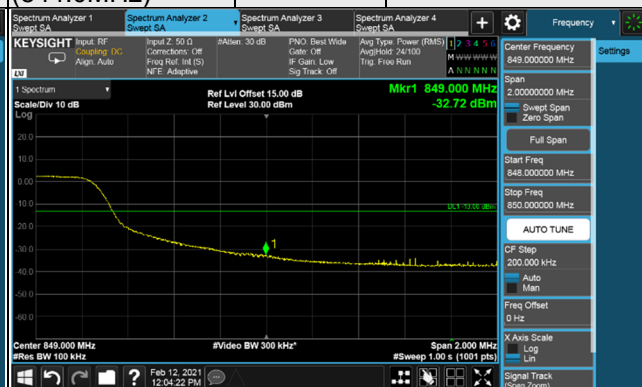
$\pi/2$ BPSK

50 RB / 0 RB Offset

Channel 168800
(849.0MHz)

$\pi/2$ BPSK

50 RB / 0 RB Offset



n26, Channel Bandwidth 15MHz

Channel 166300
(831.5MHz)

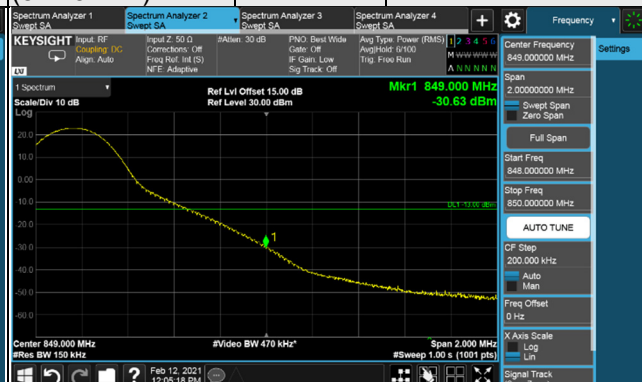
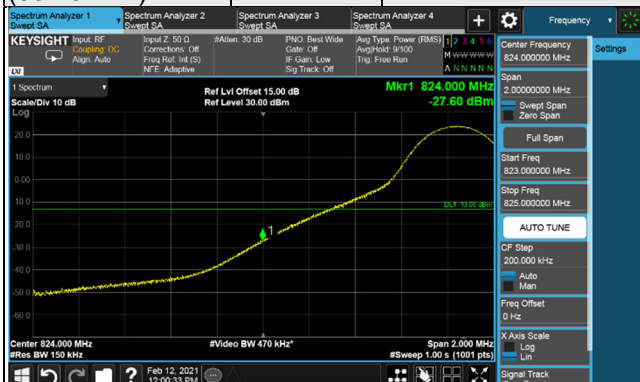
QPSK

1 RB / 0 RB Offset

Channel 168300
(841.5MHz)

QPSK

1 RB / 74 RB Offset



Channel 166300
(831.5MHz)

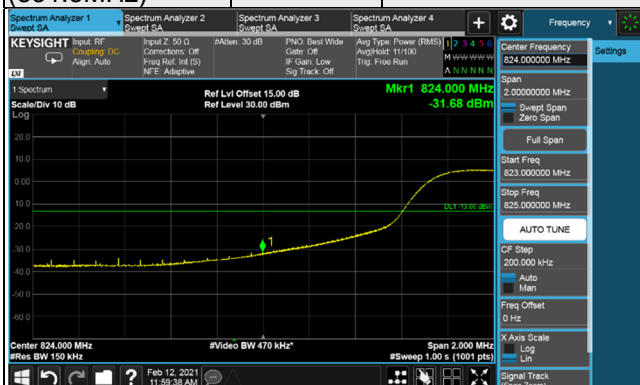
QPSK

75 RB / 0 RB Offset

Channel 168300
(841.5MHz)

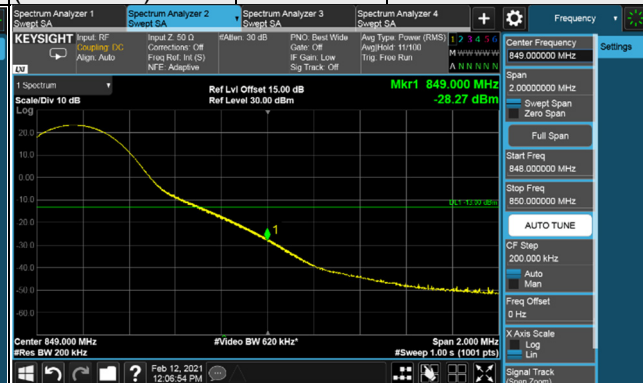
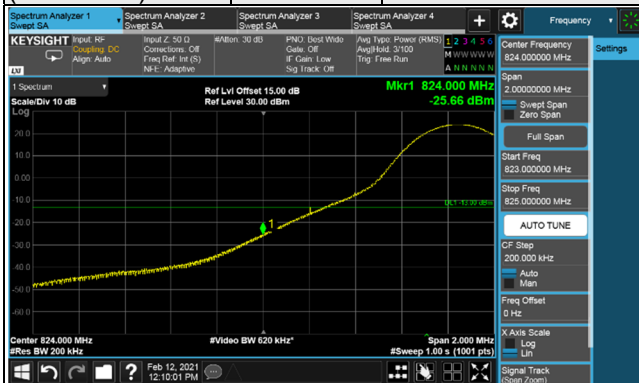
QPSK

75 RB / 0 RB Offset

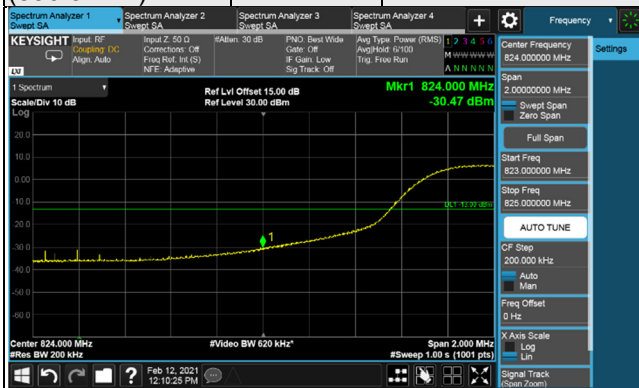


n26, Channel Bandwidth 20MHz

Channel 167300 (836.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 167300 (836.5MHz)	QPSK	1 RB / 104 RB Offset
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Channel 167300 (836.5MHz)	QPSK	105 RB / 0 RB Offset	Channel 167300 (836.5MHz)	QPSK	105 RB / 0 RB Offset
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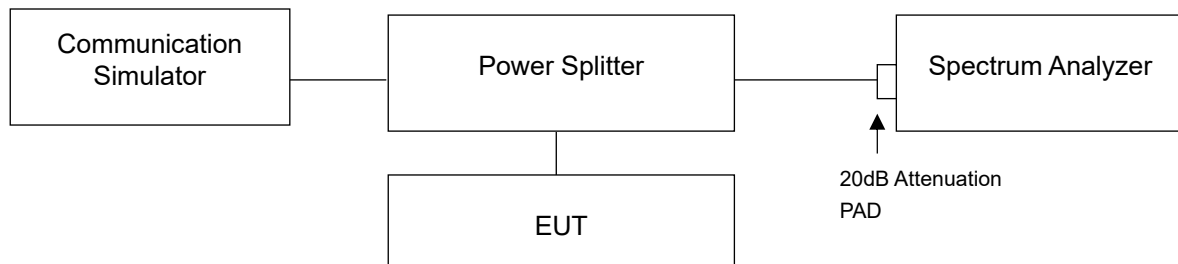


4.6 Peak to Average Ratio

4.6.1 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

4.6.2 Test Setup



4.6.3 Test Procedures

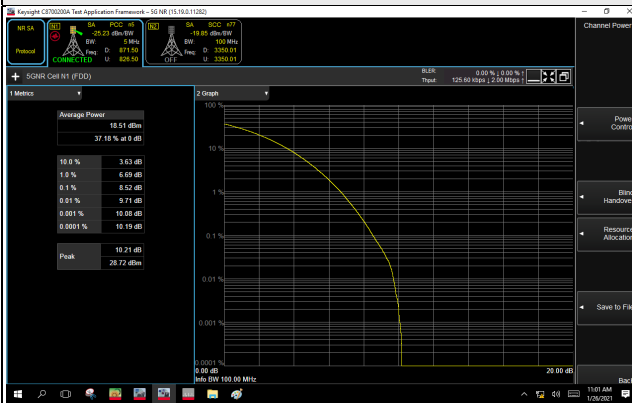
- Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

4.6.4 Test Results

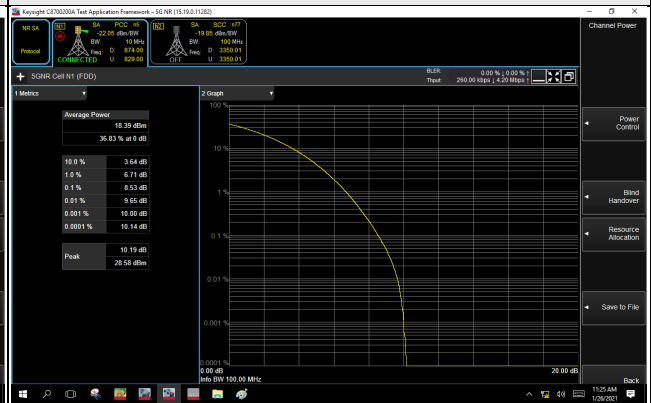
n5, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
165300	826.5	3.83	6.48	6.61	7.07	8.52
167300	836.5	3.95	6.52	6.68	7.12	8.47
169300	846.5	3.85	6.64	6.71	7.13	8.41
n5, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
165800	829.0	3.92	6.63	6.67	7.07	8.53
167300	836.5	3.95	6.66	6.69	7.13	8.43
168800	844.0	3.93	6.71	6.74	7.10	8.52
n5, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
166300	831.5	4.03	6.63	6.61	7.19	8.49
167300	836.5	3.69	6.67	6.67	7.21	8.52
168300	841.5	4.13	6.88	6.88	7.38	8.40
n5, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
166800	834.0	3.80	6.67	6.72	7.04	8.41
167300	836.5	3.73	6.77	6.80	7.13	8.53
167800	839.0	4.00	6.94	6.95	7.26	8.49

Spectrum Plot of Worst Value

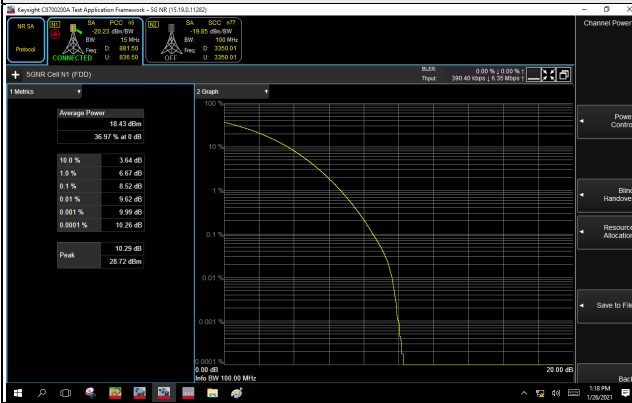
5MHz / 256QAM



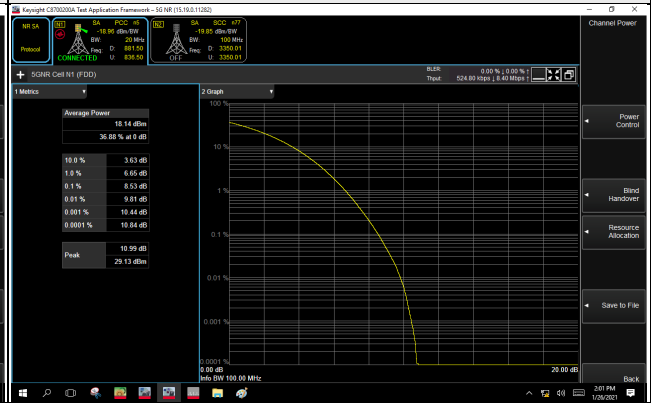
10MHz / 256QAM



15MHz / 256QAM



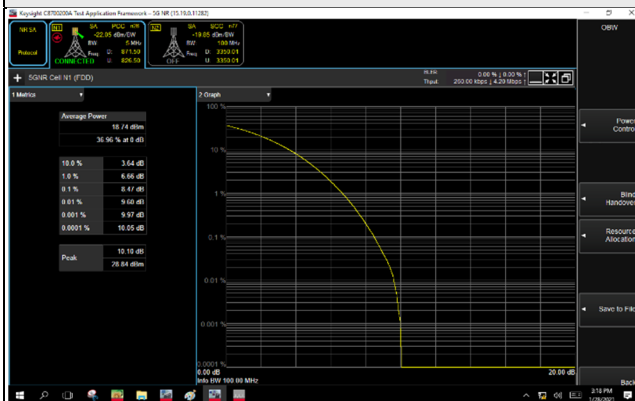
20MHz / 256QAM



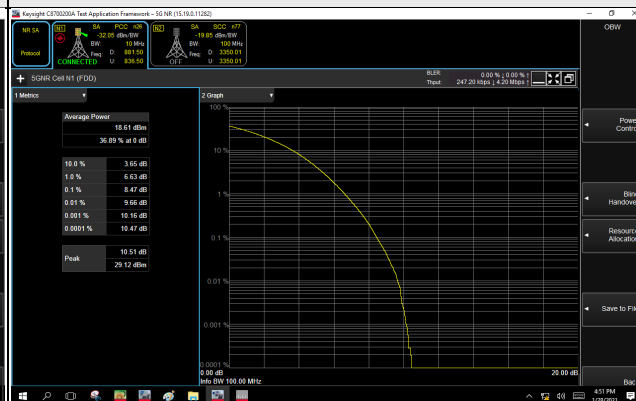
n26, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
165300	826.5	3.84	6.61	6.67	7.05	8.47
167300	836.5	3.83	6.53	6.68	7.08	8.44
169300	846.5	3.83	6.56	6.64	7.08	8.44
n26, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
165800	829.0	3.92	6.62	6.70	7.10	8.46
167300	836.5	3.95	6.67	6.67	7.11	8.47
168800	844.0	3.92	6.71	6.73	7.10	8.47
n26, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
166300	831.5	4.05	6.61	6.61	7.18	8.50
167300	836.5	3.71	6.60	6.67	7.21	8.48
168300	841.5	4.15	6.84	6.84	7.34	8.43
n26, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
167300	836.5	3.80	6.76	6.74	7.08	8.42

Spectrum Plot of Worst Value

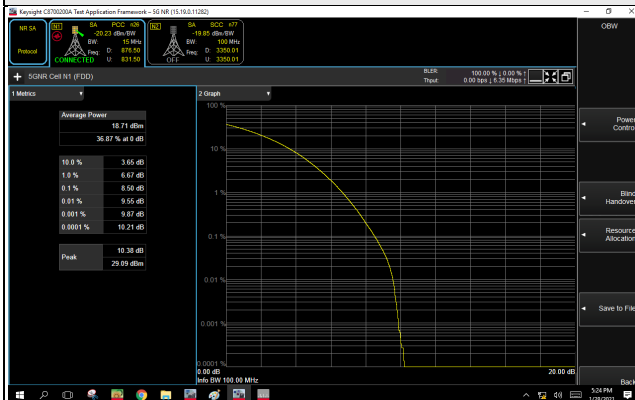
5MHz / 256QAM



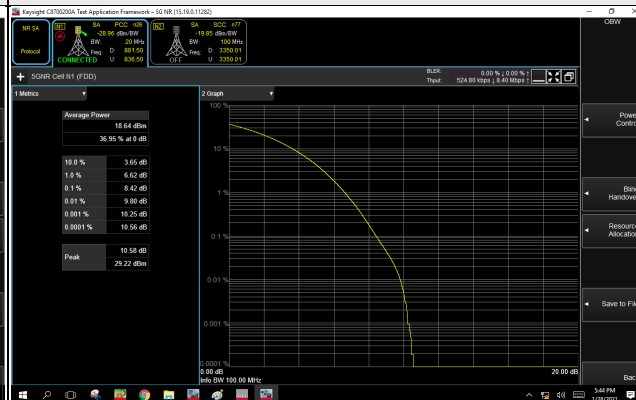
10MHz / 256QAM



15MHz / 256QAM



20MHz / 256QAM

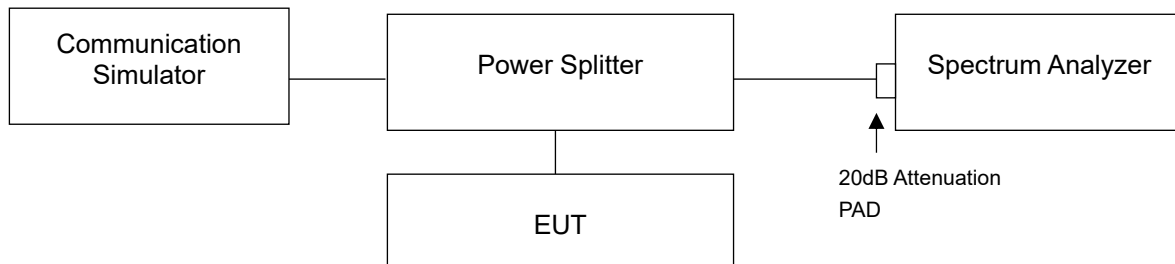


4.7 Conducted Spurious Emissions

4.7.1 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 .

4.7.2 Test Setup



4.7.3 Test Procedure

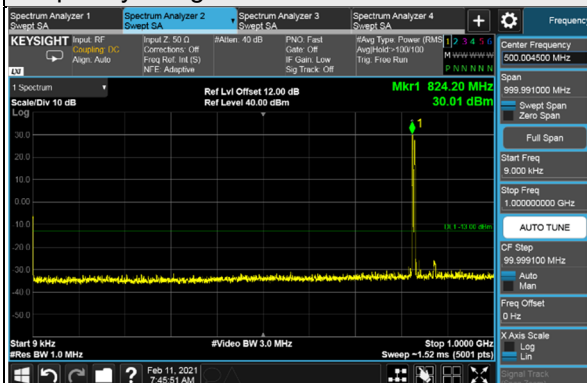
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz to 10GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz for 1 GHz to 9GHz are used conducted emission measurement.

4.7.4 Test Results

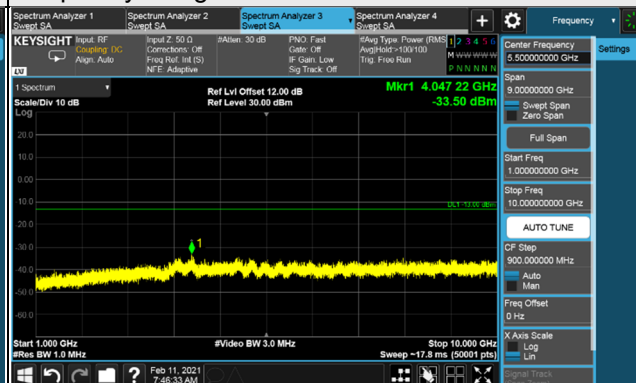
n5, Channel Bandwidth 5MHz

Channel 165300 (826.5MHz)

Frequency Range : 9kHz ~ 1GHz

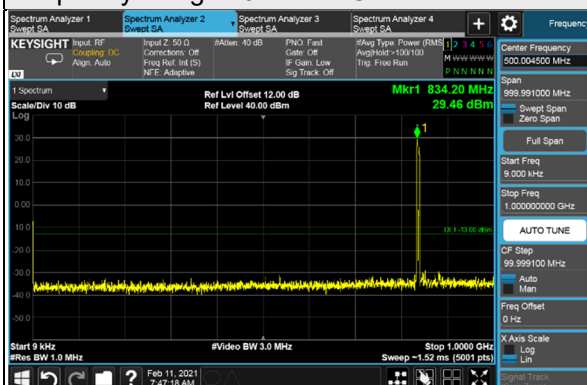


Frequency Range : 1GHz ~ 10GHz

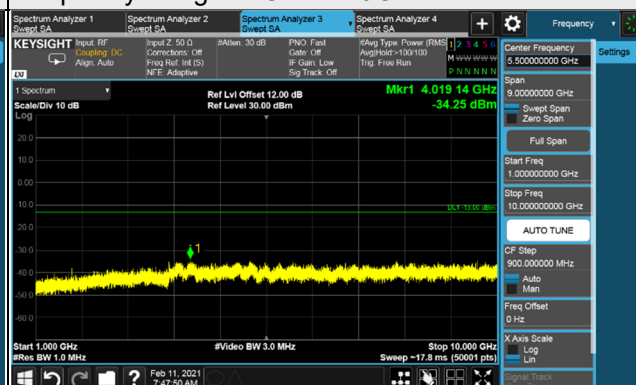


Channel 167300 (836.5MHz)

Frequency Range : 9kHz ~ 1GHz

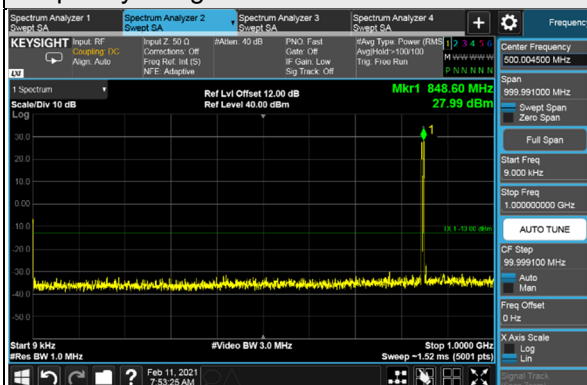


Frequency Range : 1GHz ~ 10GHz

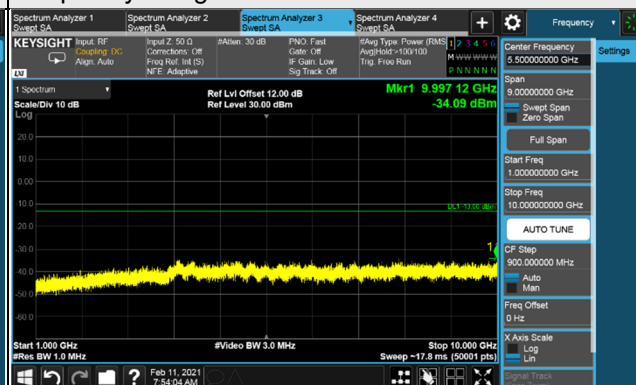


Channel 169300 (846.5MHz)

Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 10GHz



*The 9kHz signal over the limit is from Spectrum.