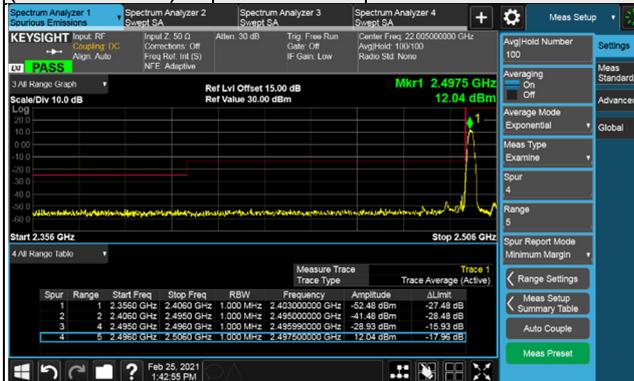
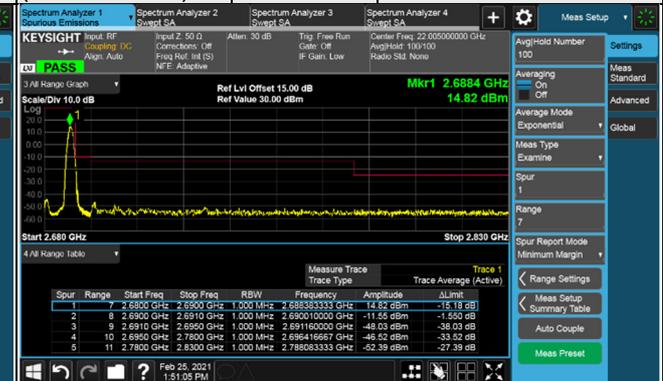


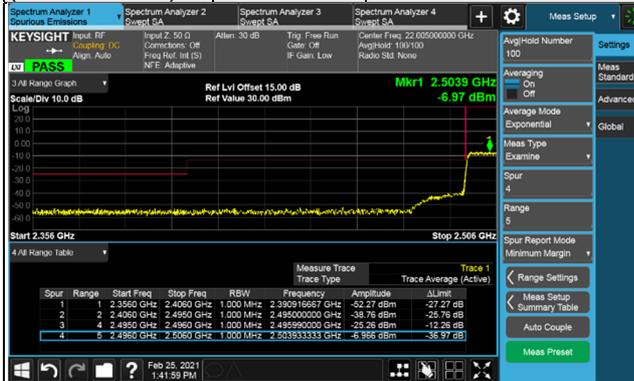
n41, Channel Bandwidth 90MHz

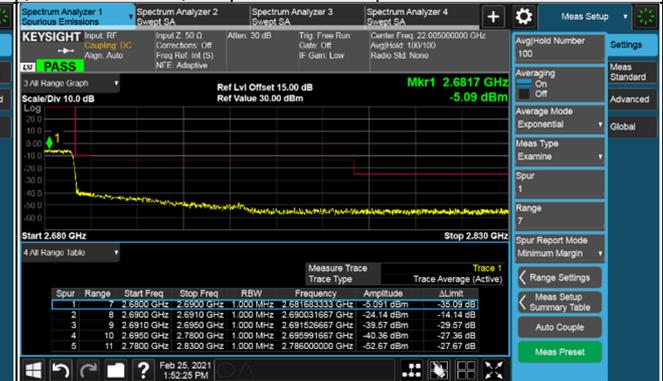
<b>Channel 508200</b> (2541.00MHz)	$\pi/2$ BPSK	1 RB / 0 RB Offset	<b>Channel 528996</b> (2644.98MHz)	$\pi/2$ BPSK	1 RB / 244 RB Offset
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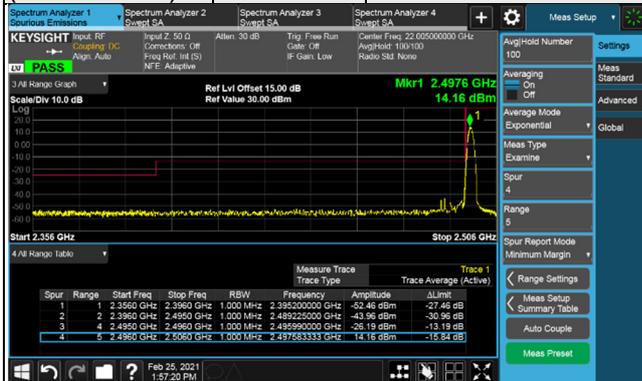
<b>Channel 508200</b> (2541.00MHz)	$\pi/2$ BPSK	245 RB / 0 RB Offset	<b>Channel 528996</b> (2644.98MHz)	$\pi/2$ BPSK	245 RB / 0 RB Offset
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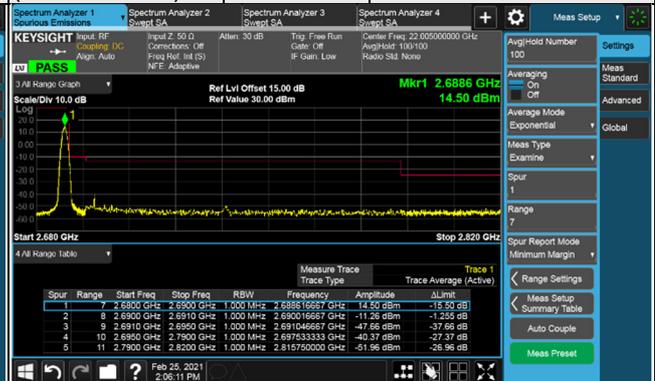
n41, Channel Bandwidth 100MHz

Channel 509202 (2546.01MHz)	QPSK	1 RB / 0 RB Offset	Channel 528000 (2640.00MHz)	QPSK	1 RB / 272 RB Offset
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**Channel 509202 (2546.01MHz)**  
QPSK, 1 RB / 0 RB Offset  
Mkr1 2.4976 GHz, 14.16 dBm

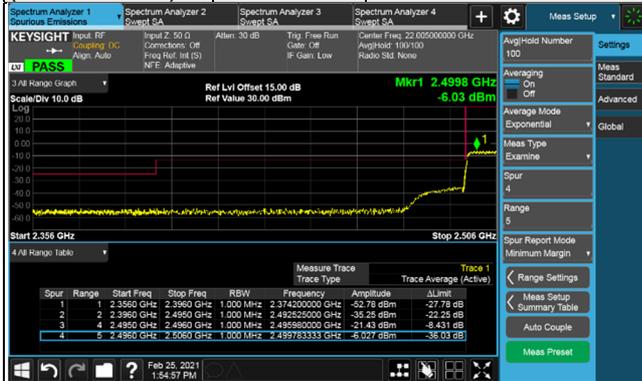
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.3560 GHz	2.3960 GHz	1.000 MHz	2.395200000 GHz	-52.46 dBm	-27.46 dB
2	2	2.4960 GHz	2.4960 GHz	1.000 MHz	2.492200000 GHz	-36.96 dBm	-36.96 dB
3	4	2.4960 GHz	2.4960 GHz	1.000 MHz	2.495900000 GHz	-28.19 dBm	-13.19 dB
4	5	2.4960 GHz	2.5060 GHz	1.000 MHz	2.497633333 GHz	-14.16 dBm	-15.84 dB



**Channel 528000 (2640.00MHz)**  
QPSK, 1 RB / 272 RB Offset  
Mkr1 2.6886 GHz, 14.50 dBm

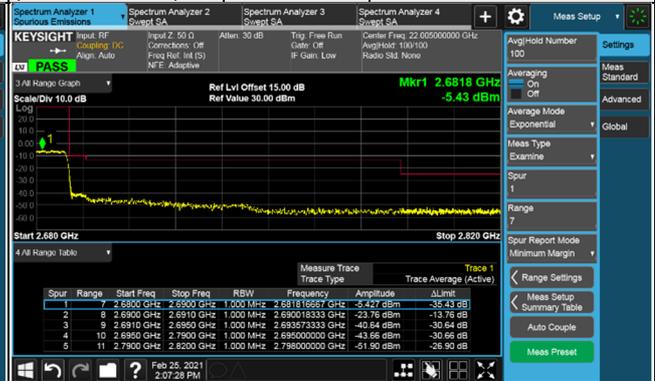
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	7	2.6800 GHz	2.6900 GHz	1.000 MHz	2.688166667 GHz	-14.50 dBm	-15.50 dB
2	8	2.6900 GHz	2.6910 GHz	1.000 MHz	2.690183333 GHz	-11.26 dBm	-11.26 dB
3	9	2.6910 GHz	2.6960 GHz	1.000 MHz	2.691046667 GHz	-47.65 dBm	-37.65 dB
4	10	2.6960 GHz	2.7800 GHz	1.000 MHz	2.697633333 GHz	-40.37 dBm	-27.37 dB
5	11	2.7800 GHz	2.8200 GHz	1.000 MHz	2.815750000 GHz	-51.96 dBm	-26.96 dB

Channel 509202 (2546.01MHz)	QPSK	273 RB / 0 RB Offset	Channel 528000 (2640.00MHz)	QPSK	273 RB / 0 RB Offset
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**Channel 509202 (2546.01MHz)**  
QPSK, 273 RB / 0 RB Offset  
Mkr1 2.4998 GHz, -6.03 dBm

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	2.3560 GHz	2.3960 GHz	1.000 MHz	2.374200000 GHz	-52.78 dBm	-27.78 dB
2	2	2.4960 GHz	2.4960 GHz	1.000 MHz	2.492500000 GHz	-36.25 dBm	-36.25 dB
3	4	2.4960 GHz	2.4960 GHz	1.000 MHz	2.495800000 GHz	-21.43 dBm	-8.43 dB
4	5	2.4960 GHz	2.5060 GHz	1.000 MHz	2.499783333 GHz	-6.927 dBm	-36.93 dB



**Channel 528000 (2640.00MHz)**  
QPSK, 273 RB / 0 RB Offset  
Mkr1 2.6818 GHz, -5.43 dBm

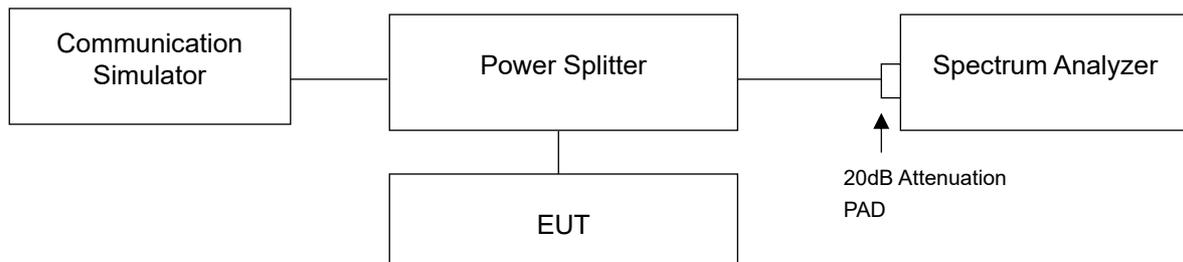
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	7	2.6800 GHz	2.6900 GHz	1.000 MHz	2.681816667 GHz	-5.427 dBm	-35.43 dB
2	8	2.6900 GHz	2.6910 GHz	1.000 MHz	2.690083333 GHz	-33.78 dBm	-18.78 dB
3	9	2.6910 GHz	2.6960 GHz	1.000 MHz	2.693573333 GHz	-40.64 dBm	-30.64 dB
4	10	2.6960 GHz	2.7800 GHz	1.000 MHz	2.695000000 GHz	-43.66 dBm	-30.66 dB
5	11	2.7800 GHz	2.8200 GHz	1.000 MHz	2.798000000 GHz	-51.96 dBm	-28.96 dB

## 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%.

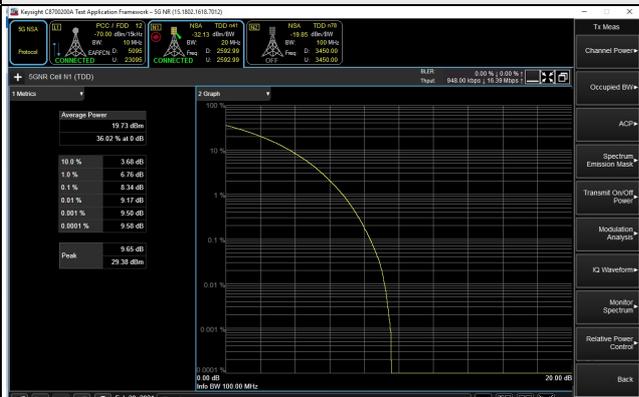
#### 4.6.4 Test Results

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	3.71	6.42	6.48	6.83	8.18
518598	2592.99	4.07	6.47	6.49	6.87	8.34
535998	2679.99	3.74	6.46	6.55	6.87	8.30
n41, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502200	2511.00	3.89	6.63	6.74	7.10	8.28
518598	2592.99	3.77	6.53	6.77	7.18	8.28
534996	2674.98	3.76	6.59	6.71	7.14	8.25
n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	3.95	6.64	6.79	7.17	8.27
518598	2592.99	3.93	6.52	6.65	7.08	8.24
534000	2670.00	3.76	6.51	6.60	7.08	8.25
n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	4.28	6.64	6.90	7.22	8.25
518598	2592.99	4.18	6.46	6.78	7.21	8.22
532998	2664.99	4.38	6.24	6.68	7.18	8.19
n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	4.29	6.85	6.88	7.33	8.32
518598	2592.99	3.99	6.65	6.60	7.13	8.20
531996	2659.98	4.18	6.58	6.68	7.14	8.19

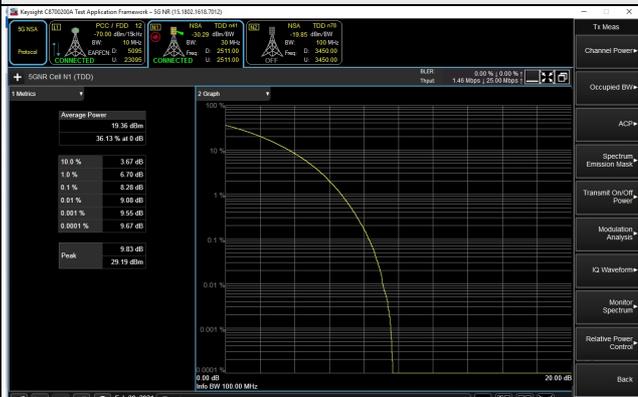
n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	4.30	7.26	7.22	7.70	8.30
518598	2592.99	4.47	6.95	6.96	7.53	8.22
529998	2649.99	4.48	6.69	6.83	7.24	8.14
n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	4.63	7.37	7.41	7.65	8.27
518598	2592.99	4.17	7.07	6.97	7.40	8.24
528996	2644.98	4.23	6.83	6.79	7.21	8.24
n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	4.20	7.44	7.40	7.80	8.34
518598	2592.99	4.68	7.20	7.10	7.65	8.30
528000	2640.00	4.81	6.80	6.95	7.36	8.29

## Spectrum Plot of Worst Value

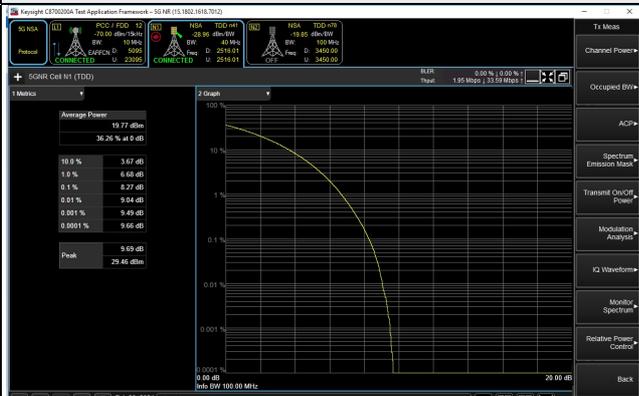
### 20MHz / 256QAM



### 30MHz / 256QAM



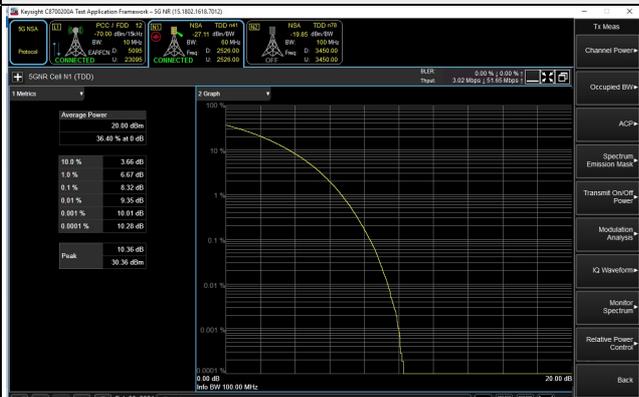
### 40MHz / 256QAM



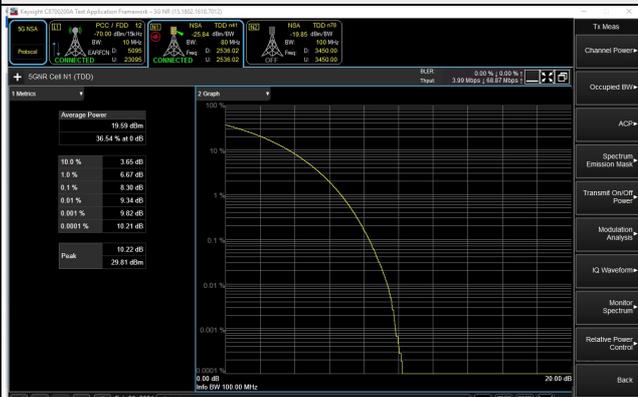
### 50MHz / 256QAM



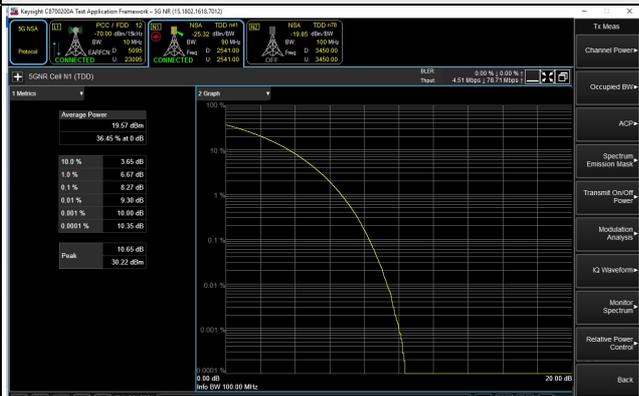
### 60MHz / 256QAM



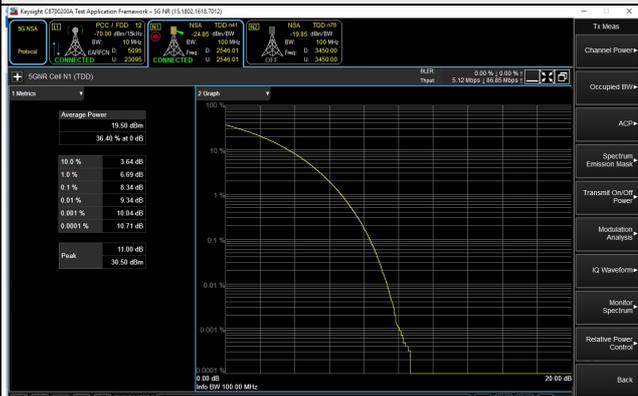
### 80MHz / 256QAM



### 90MHz / 256QAM



### 100MHz / 256QAM

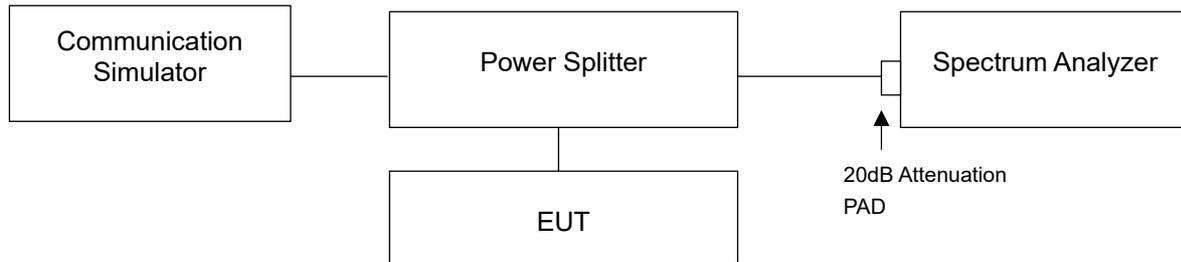


## 4.7 Conducted Spurious Emissions

### 4.7.1 Limits of Conducted Spurious Emissions Measurement

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log (P)$  dB. The emission limit equal to  $-25\text{dBm}$ .

### 4.7.2 Test Setup



### 4.7.3 Test Procedure

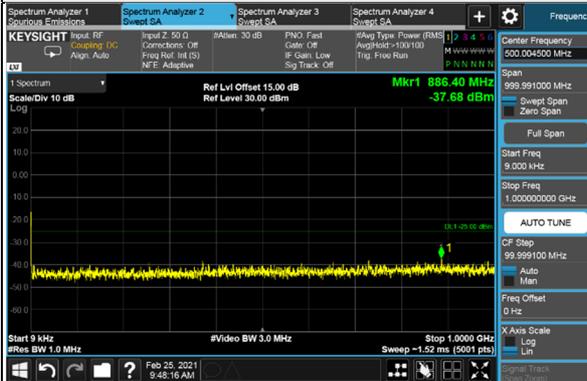
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz to 30GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

### 4.7.4 Test Results

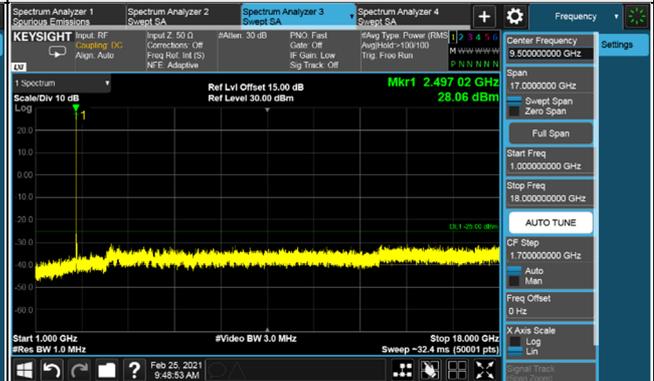
n41, Channel Bandwidth 20MHz

Channel 501204 (2506.02MHz)

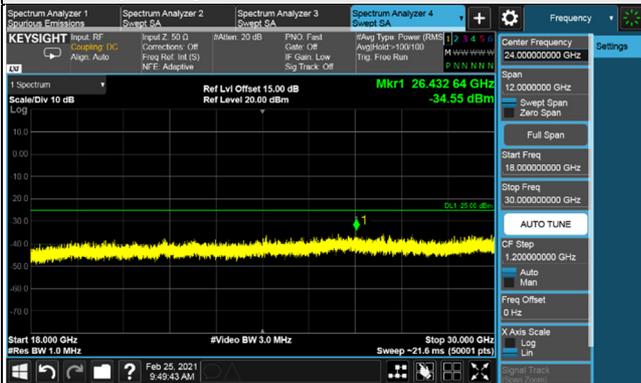
Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 18GHz



Frequency Range : 18GHz ~ 30GHz

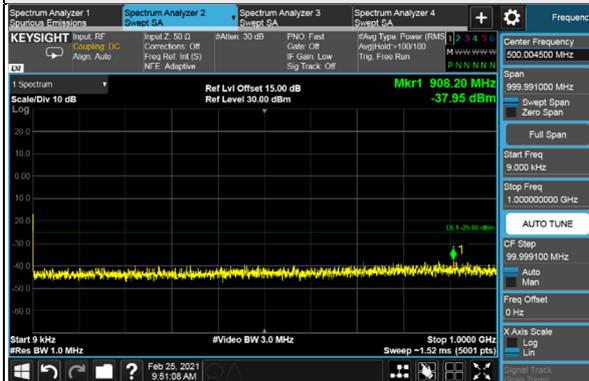


\*The 9kHz signal over the limit is from Spectrum.

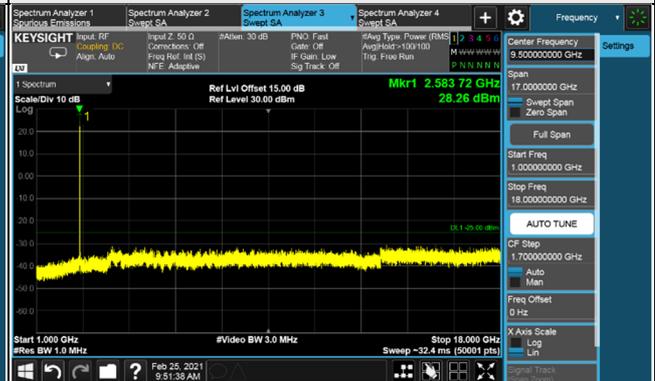
n41, Channel Bandwidth 20MHz

Channel 518598 (2592.99MHz)

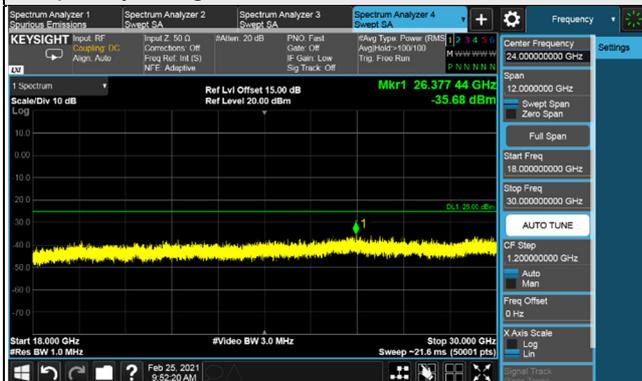
Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 18GHz



Frequency Range : 18GHz ~ 30GHz



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