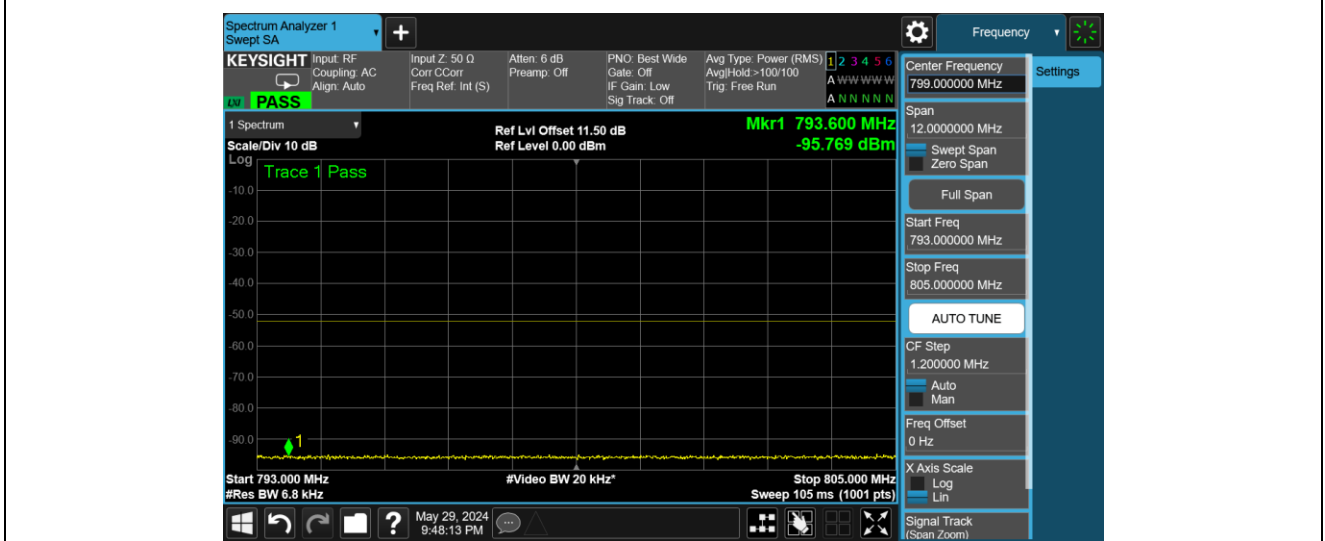


**Conducted spurious emissions**

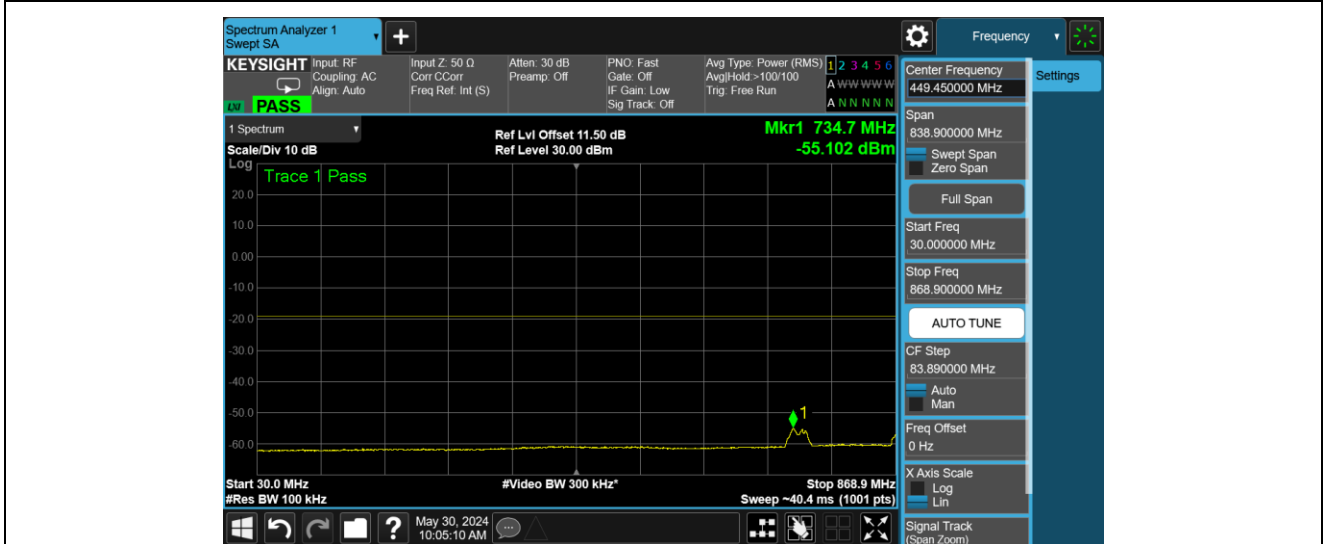
**DL\_Upper 700MHz Band**

**4.1MHz AWGN signal input\_Pre-AGC**



**DL\_Cellular Band**

**4.1MHz AWGN signal input\_Pre-AGC**



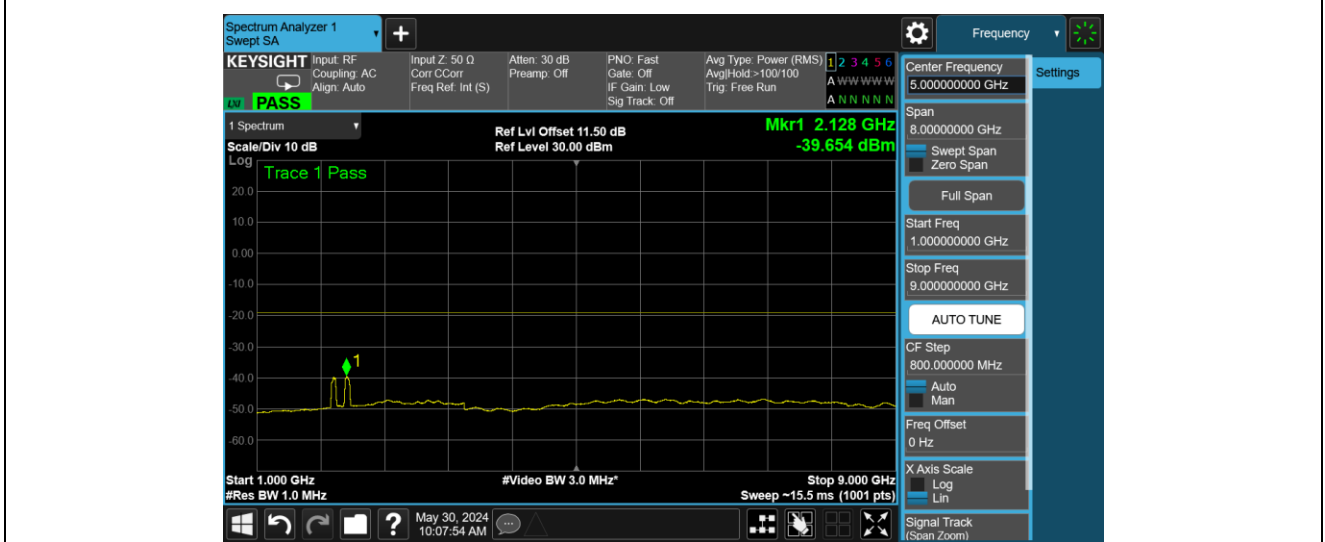
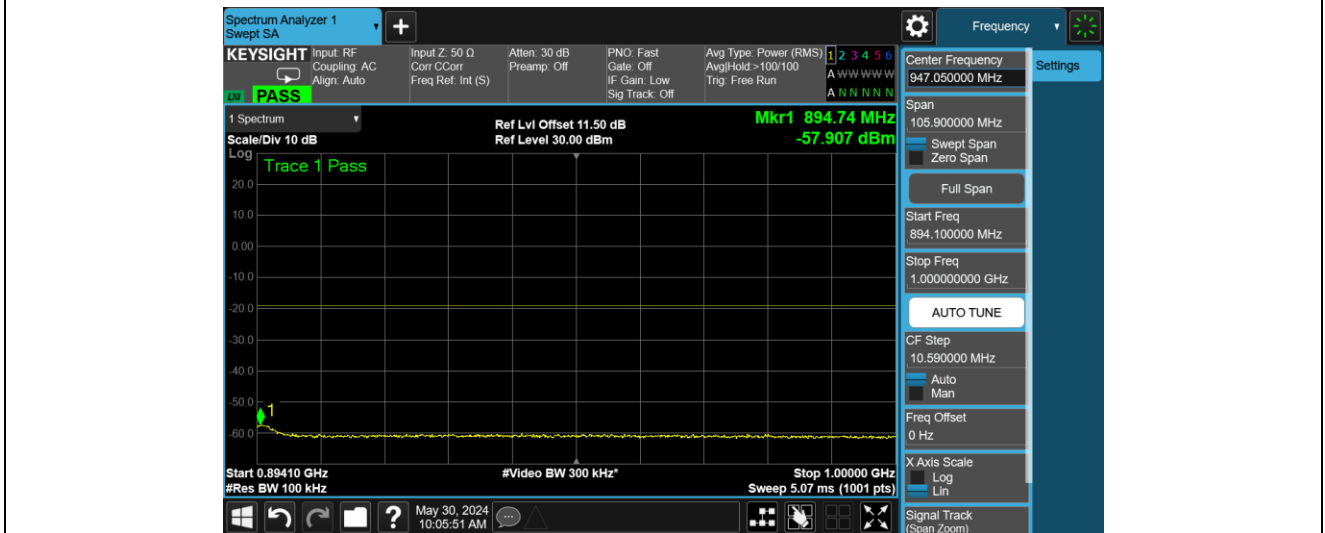
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**Conducted spurious emissions**

**DL\_Cellular Band**

**4.1MHz AWGN signal input\_Pre-AGC**



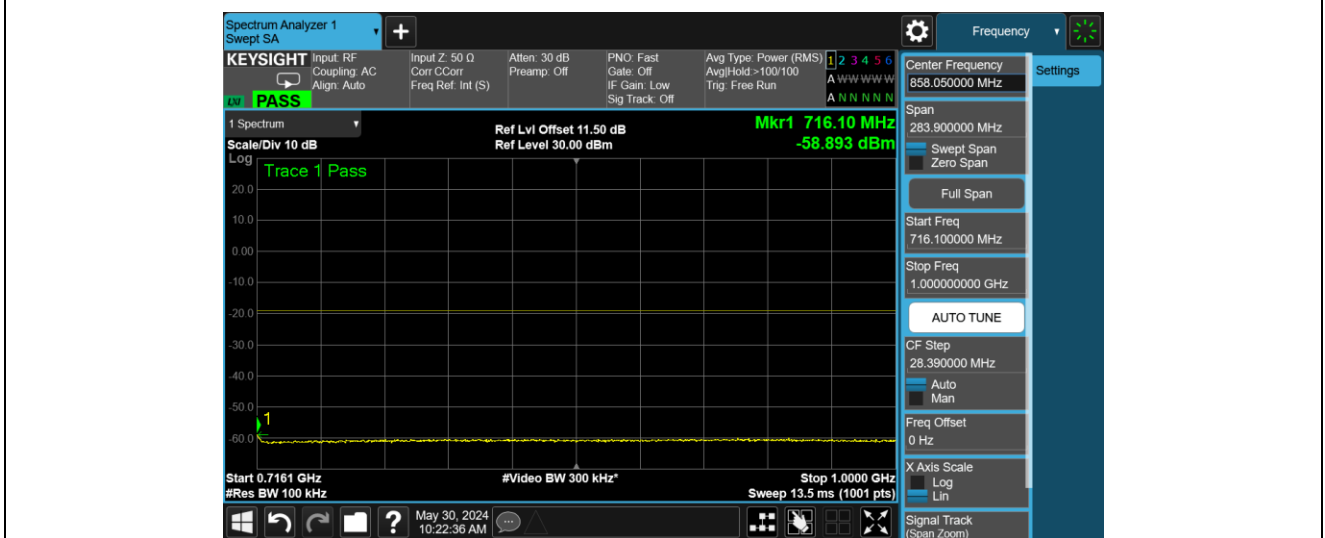
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**Conducted spurious emissions**

**UL\_Lower 700MHz Band**

**4.1MHz AWGN signal input\_Pre-AGC**

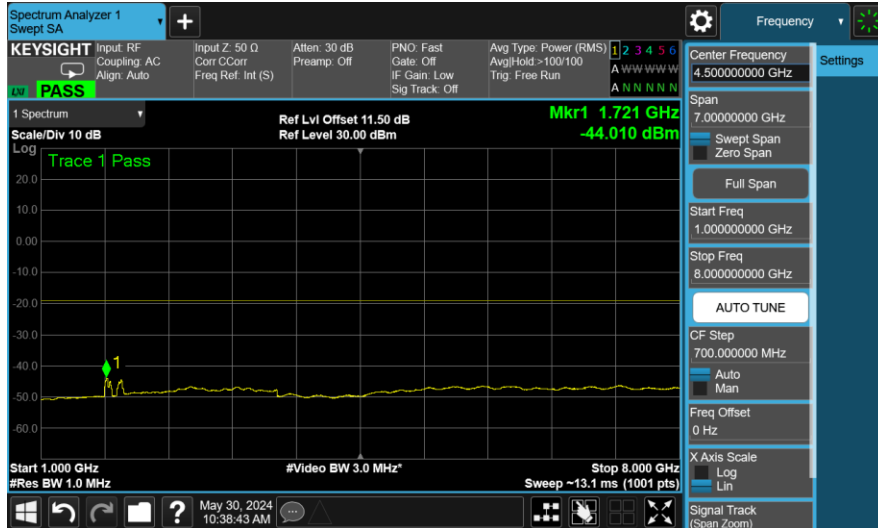


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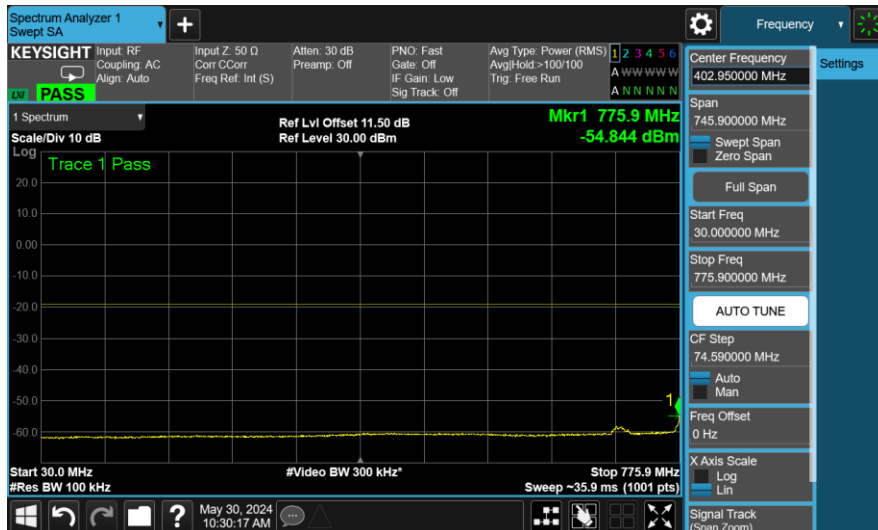
### UL\_Lower 700MHz Band

#### 4.1MHz AWGN signal input\_Pre-AGC



### UL\_Upper 700MHz Band

#### 4.1MHz AWGN signal input\_Pre-AGC



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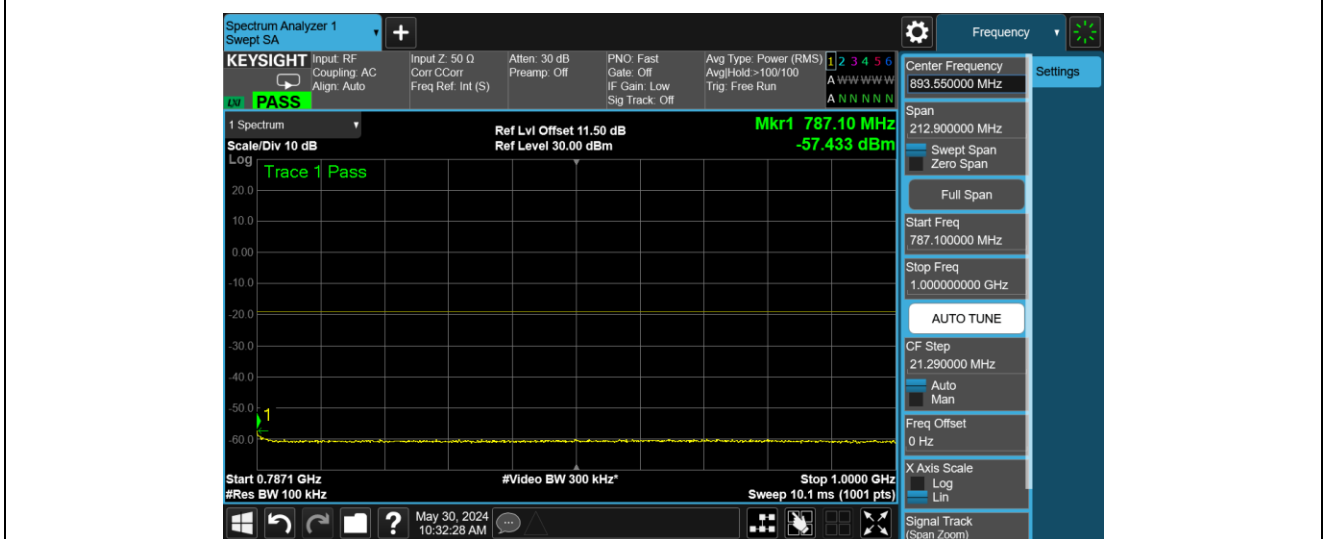
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**Conducted spurious emissions**

**UL\_Upper 700MHz Band**

**4.1MHz AWGN signal input\_Pre-AGC**



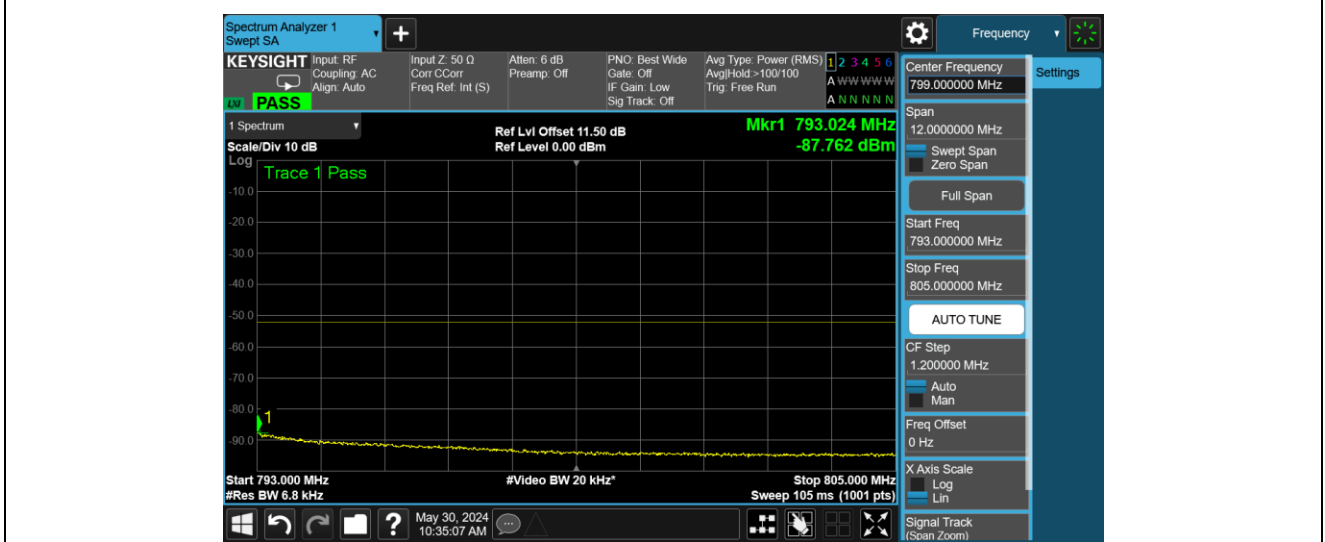
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**Conducted spurious emissions**

**UL\_Upper 700MHz Band**

**4.1MHz AWGN signal input\_Pre-AGC**



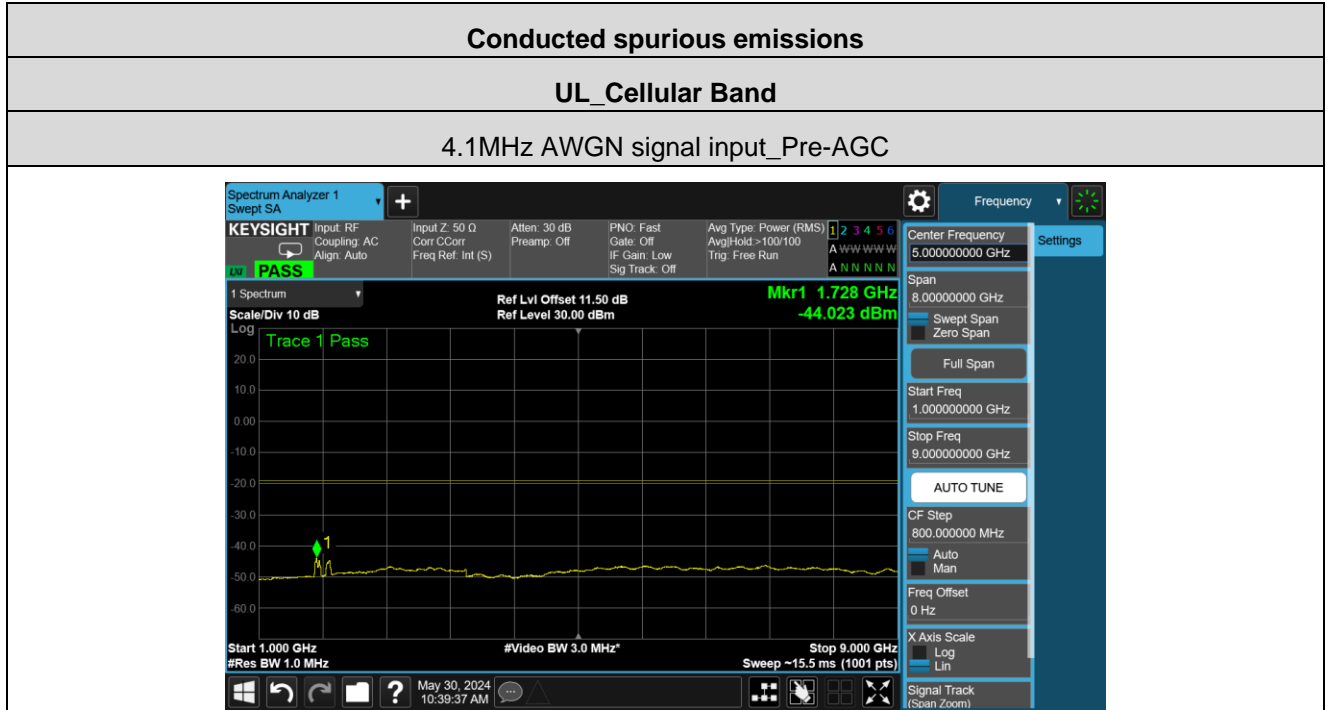
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**7 Noise limit**

Maximum transmitter Noise Power Level					
Path	Band	EUT Status	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
DL	700MHz	Power On	-46.4	≤-45.5	PASS
		Power Off	-80.5	≤-70.0	PASS
	Cellular	Power On	-46.0	≤-44.1	PASS
		Power Off	-80.5	≤-70.0	PASS
UL	Lower 700MHz	Power On	-52.0	≤-45.5	PASS
		Power Off	-81.9	≤-70.0	PASS
	Upper 700MHz	Power On	-53.1	≤-44.6	PASS
		Power Off	-81.1	≤-70.0	PASS
	Cellular	Power On	-52.1	≤-44.1	PASS
		Power Off	-81.1	≤-70.0	PASS



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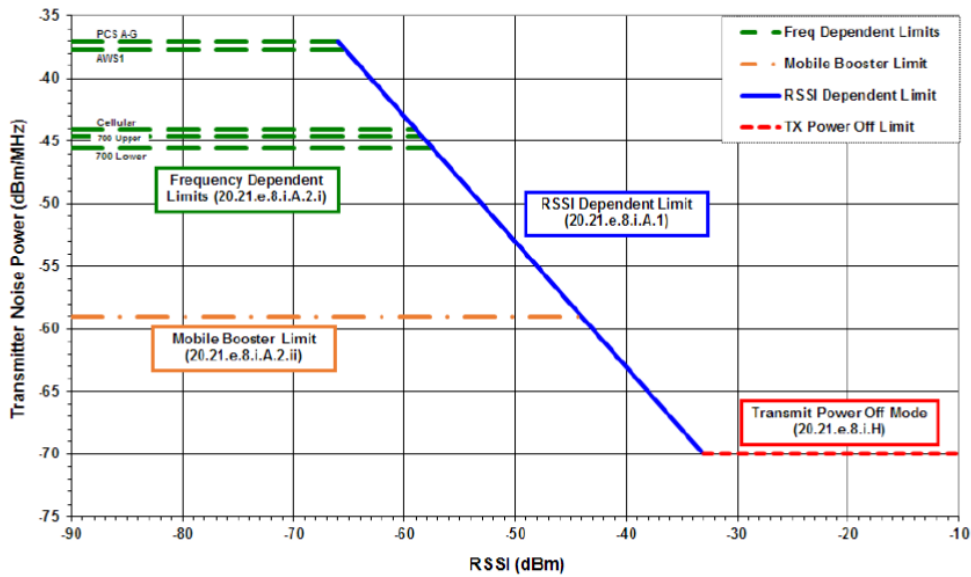
Variable Uplink Noise Power Level					
Path	Band	RSSI (dBm)	Noise Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	Lower 700MHz	-90	-52.0	≤-45.5	PASS
		-80	-52.0	≤-45.5	PASS
		-70	-53.6	≤-45.5	PASS
		-60	-58.7	≤-45.5	PASS
		-52	-64.2	≤-51.0	PASS
		-50	-65.0	≤-53.0	PASS
	Upper 700MHz	-90	-53.1	≤-44.6	PASS
		-80	-53.1	≤-44.6	PASS
		-70	-51.3	≤-44.6	PASS
		-60	-54.3	≤-44.6	PASS
		-48	-65.1	≤-55.0	PASS
		-45	-67.7	≤-58.0	PASS
	Cellular	-90	-52.1	≤-44.1	PASS
		-80	-52.1	≤-44.1	PASS
		-70	-52.1	≤-44.1	PASS
		-60	-55.5	≤-44.1	PASS
		-55	-61.8	≤-48.0	PASS
		-43	-64.6	≤-60.0	PASS



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Remark:



According to KDB 935210 D03 v04r04 appendix D, the RSSI-dependent region can be calculated:  
 for Lower 700MHz, the RSSI-dependent region is -57.5 dBm to -33 dBm  
 for Upper 700MHz, the RSSI-dependent region is -58.4 dBm to -33 dBm  
 for Cellular, the RSSI-dependent region is -58.9 dBm to -33 dBm

Variable Uplink Noise Timing				
Path	Band	Time (ms)	Limit (ms)	Verdict
UL	Lower 700MHz	40	≤3000	PASS
	Upper 700MHz	50	≤3000	PASS
	Cellular	30	≤3000	PASS



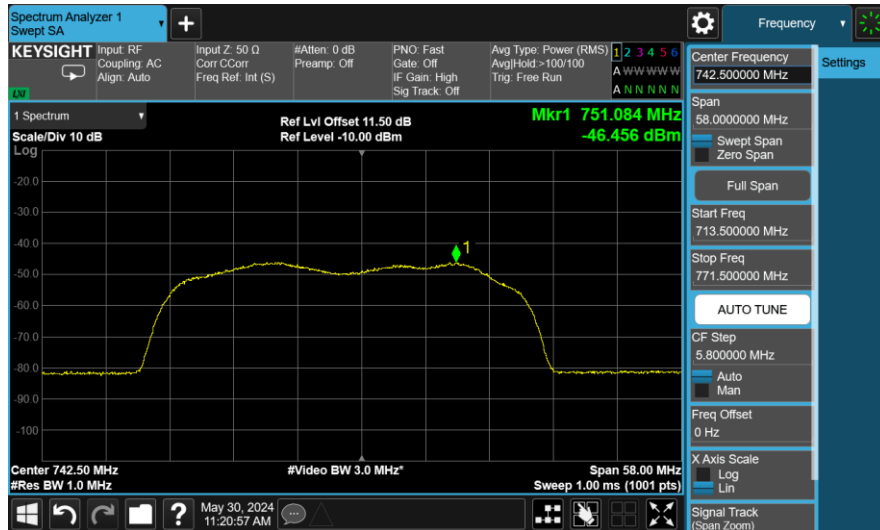
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### Maximum transmitter Noise Power Level

#### DL\_700MHz Band

#### Power on



#### Power off



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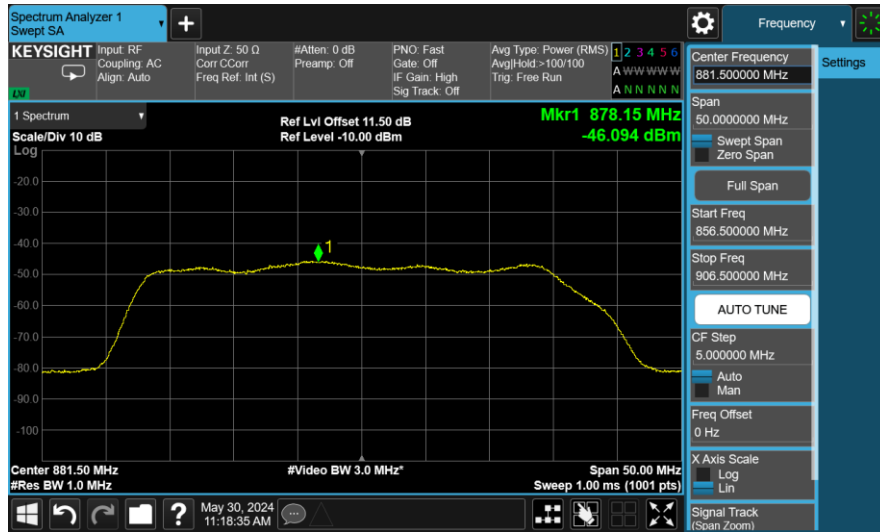
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**Maximum transmitter Noise Power Level**

**DL\_Cellular Band**

**Power on**



**Power off**



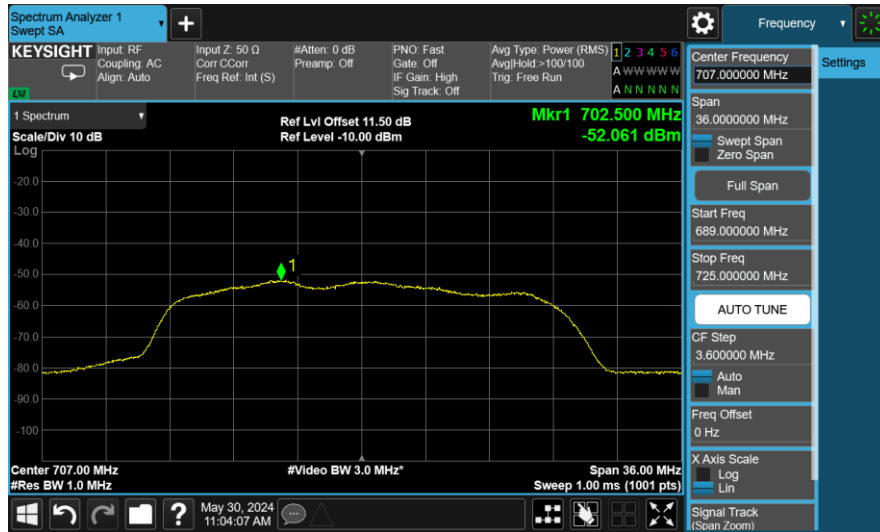
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**Maximum transmitter Noise Power Level**

**UL\_Lower 700MHz Band**

**Power on**



**Power off**



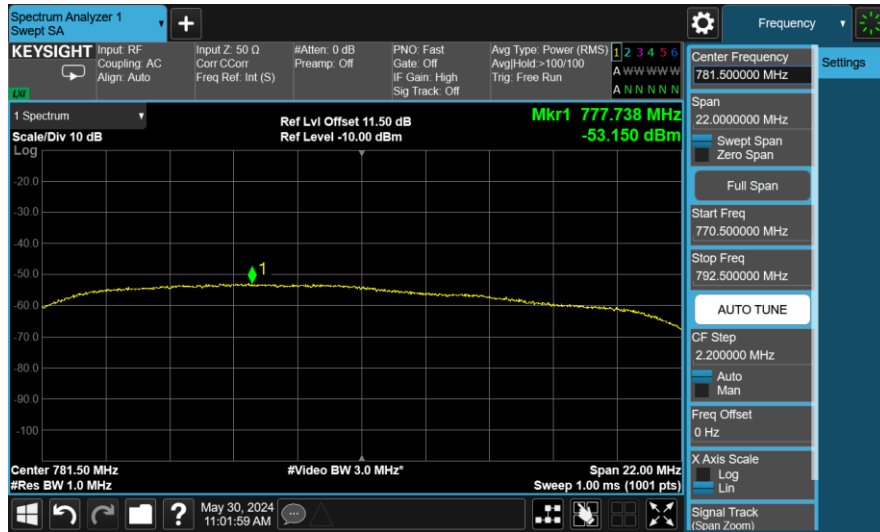
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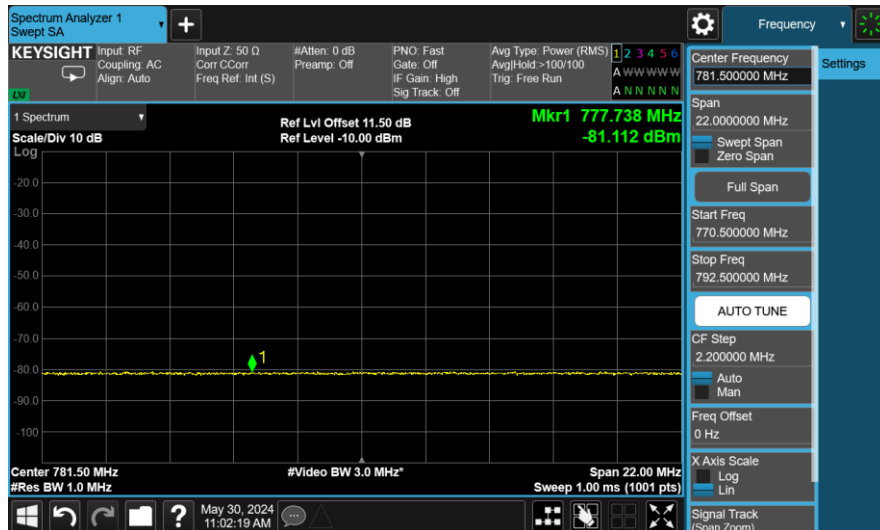
**Maximum transmitter Noise Power Level**

**UL\_Upper 700MHz Band**

**Power on**



**Power off**



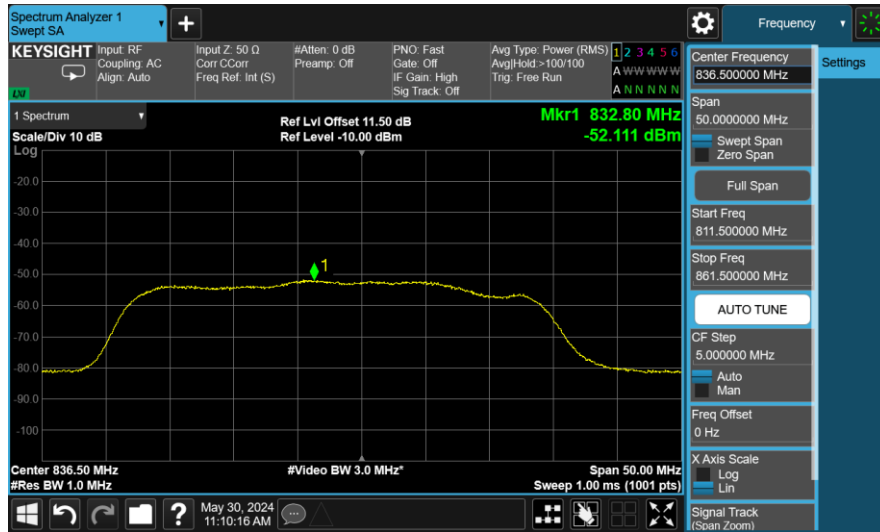
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**Maximum transmitter Noise Power Level**

**UL\_Cellular Band**

**Power on**



**Power off**



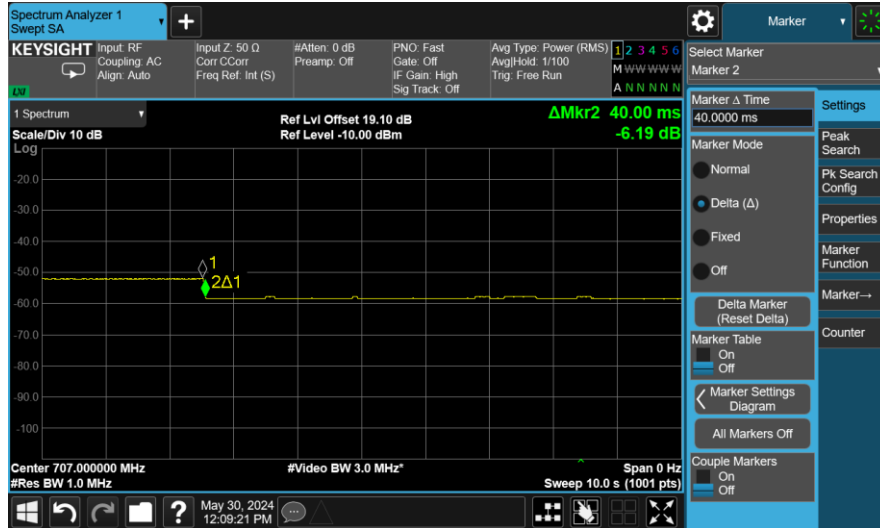
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### Variable Uplink Noise Timing

#### UL\_Lower 700MHz Band

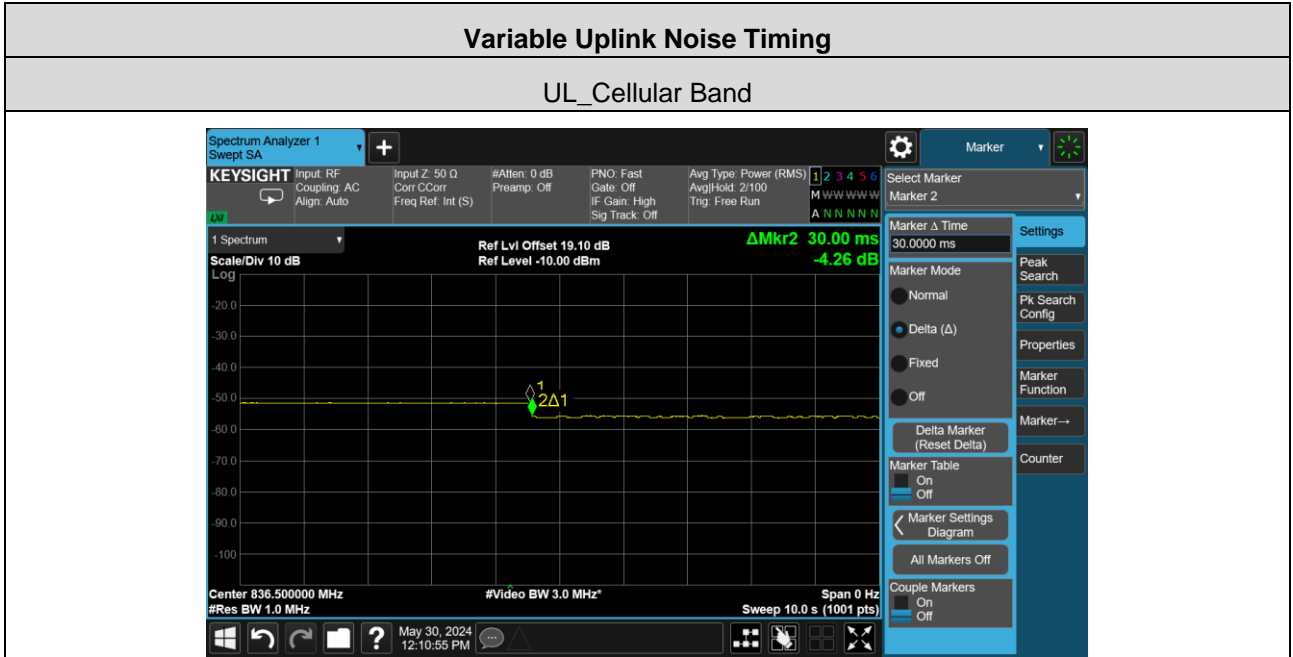


#### UL\_Upper 700MHz Band



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**8 Uplink inactivity**

Uplink Inactivity						
Path	Band	Time (s)	limit (s)	Noise Level** (dBm/MHz)	Limit (dBm/MHz)	Verdict
UL	Lower 700MHz	265.6	≤300	-81.9	≤-70	PASS
	Upper 700MHz	265.2	≤300	-81.1	≤-70	PASS
	Cellular	265.2	≤300	-81.1	≤-70	PASS

Remark:  
 \*\*: The EUT operated in "Transmit Power Off Mode" after uplink inactivity, so refer to clause 7 Noise limit for more details for Noise Level plots.



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### Uplink Inactivity Timing

#### UL\_Lower 700MHz Band



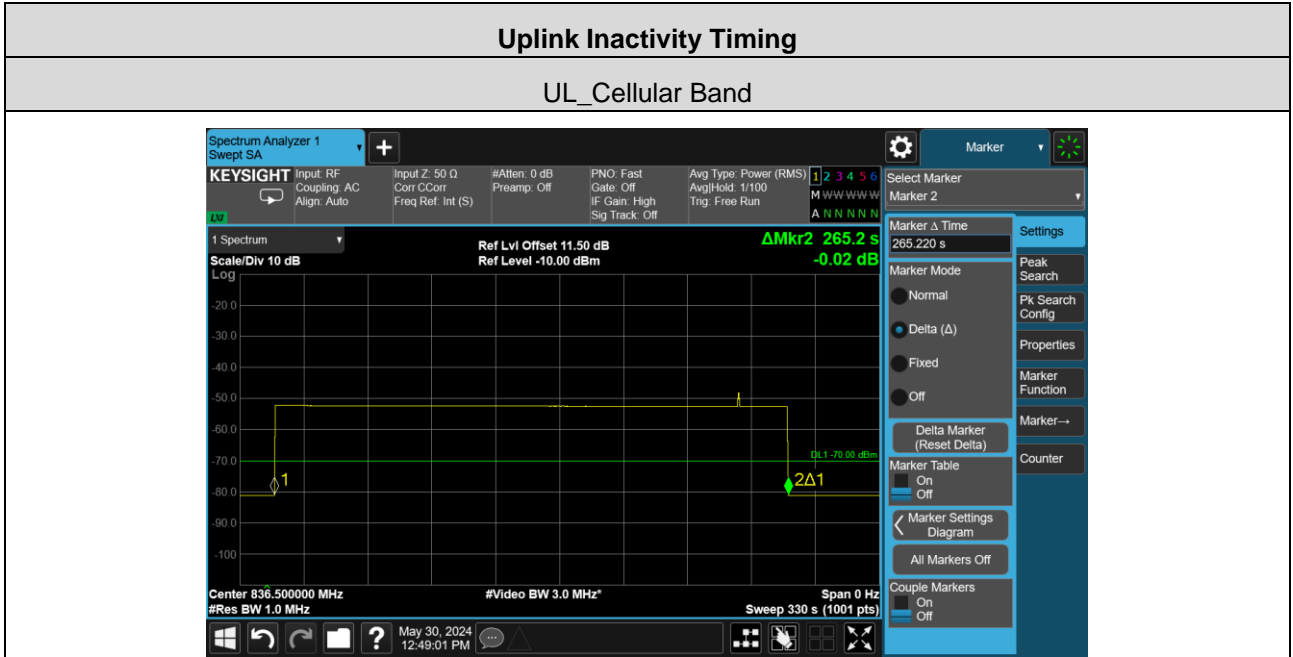
#### UL\_Upper 700MHz Band



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**9 Variable booster gain**

Variable Gain								
Path	Band	RSSI (dBm)	P <sub>in</sub> (dBm)	P <sub>out</sub> (dBm)	Gain (dB)	MSCL (dB)	Limit (dB)	Verdict
UL	Lower 700MHz	-90	-40.6	18.6	59.2	25.2	≤63.4	PASS
		-80	-40.6	18.6	59.2		≤63.4	PASS
		-70	-40.6	18.6	59.2		≤61.2	PASS
		-64	-40.6	13.0	53.6		≤55.2	PASS
		-62	-40.6	10.7	51.3		≤53.2	PASS
		-59	-40.6	8.8	49.4		≤50.2	PASS
	Upper 700MHz	-90	-41.5	18.5	60.0	26.1	≤64.3	PASS
		-80	-41.5	18.5	60.0		≤64.3	PASS
		-70	-41.5	18.5	60.0		≤62.1	PASS
		-65	-41.5	14.3	55.8		≤57.1	PASS
		-61	-41.5	10.5	52.0		≤53.1	PASS
		-60	-41.5	9.3	50.8		≤52.1	PASS
	Cellular	-90	-41.3	18.1	59.4	26.6	≤64.9	PASS
		-80	-41.3	18.1	59.4		≤64.9	PASS
		-70	-41.3	18.1	59.4		≤62.6	PASS
		-68	-41.3	16.5	57.8		≤60.6	PASS
		-66	-41.3	13.8	55.1		≤58.6	PASS
		-62	-41.3	10.4	51.7		≤54.6	PASS



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**Remark:**

1. The EUT lost amplification ability when operating in shutoff mode, so the uplink and downlink gain was within the transmit power off mode gain limit 23dB.
2. The lowest MSCL for each band can be calculated as follows:

Bands	f (MHz)	d (m)	L <sub>p</sub> (dB)	Indoor ANT Gain (dBi)	Indoor Cable Loss (dB)	MSCL (dB)
Lower 700MHz	698	1	29.4	8	3.8	25.2
Upper 700MHz	776	1	30.3	8	3.8	26.1
Cellular	824	1	30.8	8	3.8	26.6

**Where**

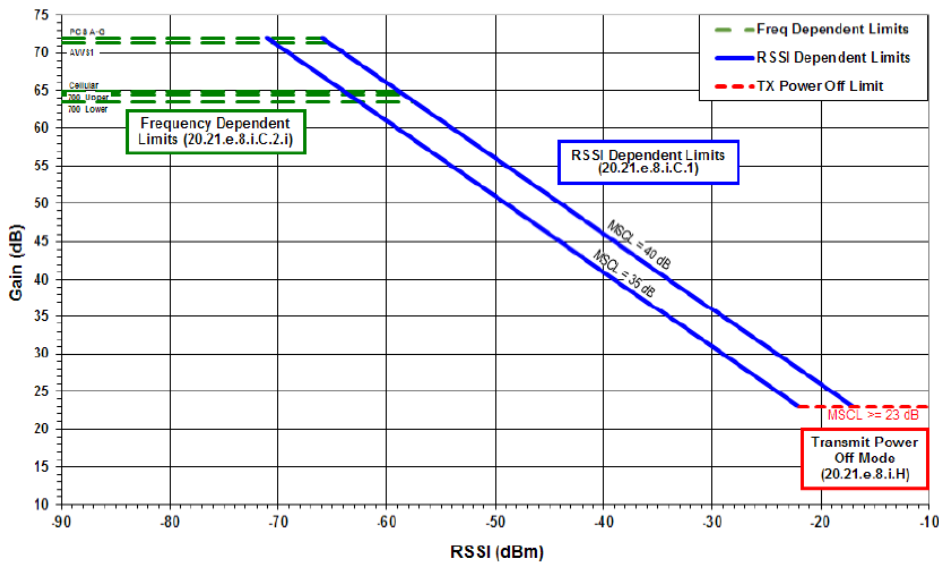
the minimum separation distance d, the indoor antenna gain and the minimum indoor cable loss, was declared by the manufacturer.

3. According to KDB 935210 D03 v04r04 appendix D figure D2, the RSSI-dependent region can be calculated:

for Lower 700MHz, the RSSI-dependent region is -73.6 dBm to -33.1 dBm

for Upper 700MHz, the RSSI-dependent region is -73.5 dBm to -32.2 dBm

for Cellular, the RSSI-dependent region is -73.6 dBm to -31.7 dBm



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Variable Uplink Gain Timing				
Path	Band	Time (s)	Limit (s)	Verdict
UL	Lower 700MHz	0.1	≤3	PASS
	Upper 700MHz	0.2	≤3	PASS
	Cellular	0.3	≤3	PASS
	AWS-1	0.2	≤3	PASS
	Broadband PCS	0.2	≤3	PASS



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**10 Occupied bandwidth**

Occupied Bandwidth				
Path	Band	Center Frequency (MHz)	Input Signal	Verdict
DL	700MHz	742.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Cellular	881.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
UL	Lower 700MHz	707	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Upper 700MHz	781.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS
	Cellular	836.5	GSM	PASS
			1.25MHz AWGN	PASS
			4.1MHz AWGN	PASS



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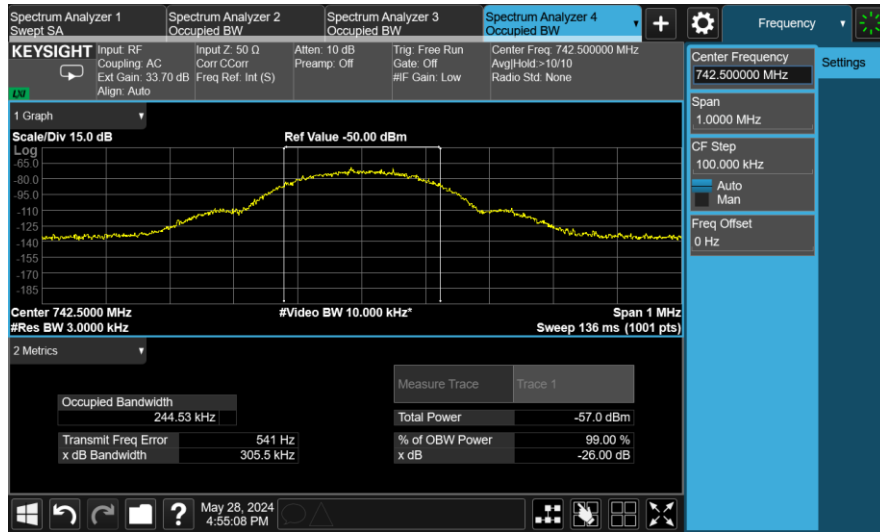
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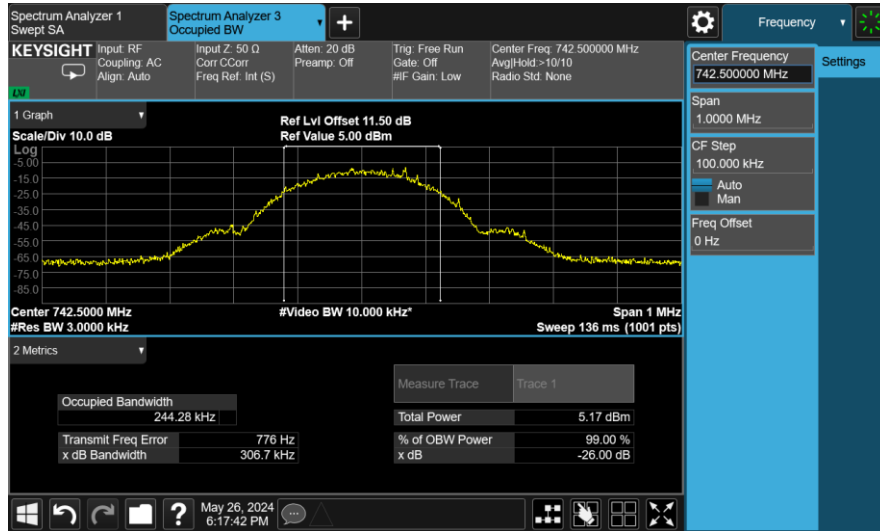
Occupied bandwidth

DL\_700MHz Band\_GSM signal type

Input



Output

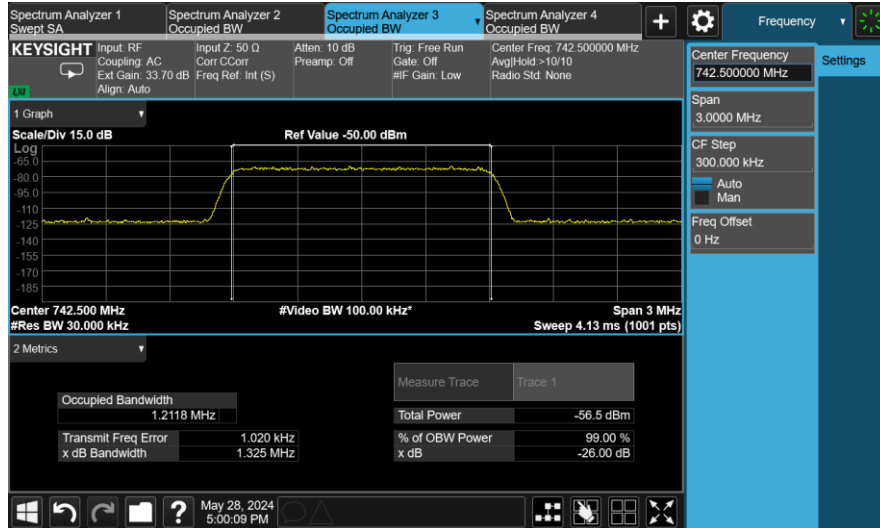


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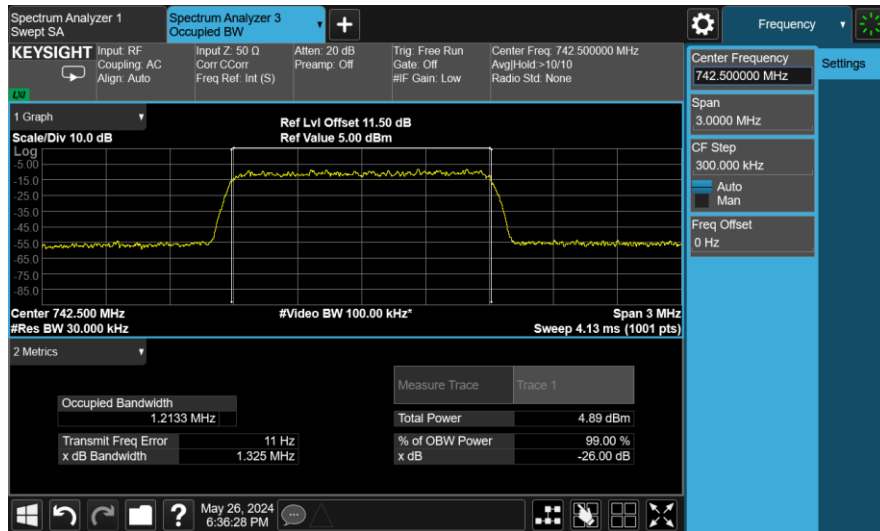
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### DL\_700MHz Band\_1.25MHz AWGN signal type

#### Input



#### Output



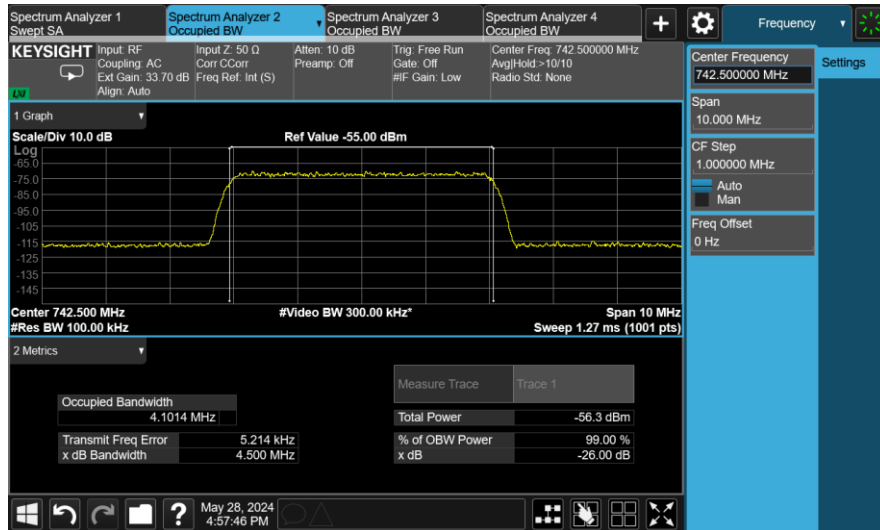
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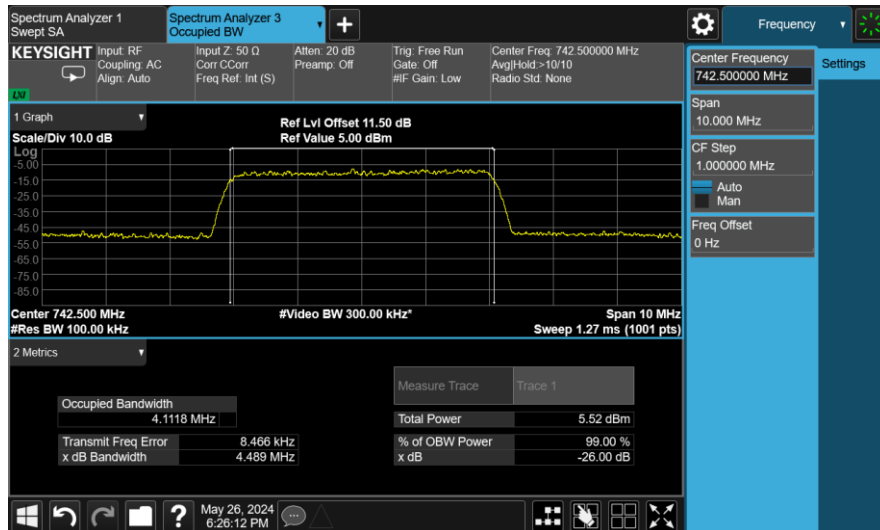
### Occupied bandwidth

#### DL\_700MHz Band\_4.1MHz AWGN signal type

#### Input



#### Output

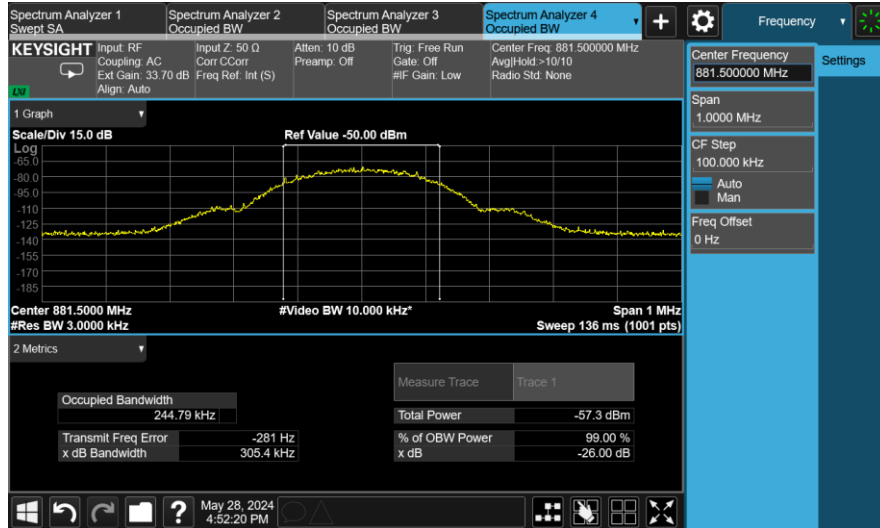


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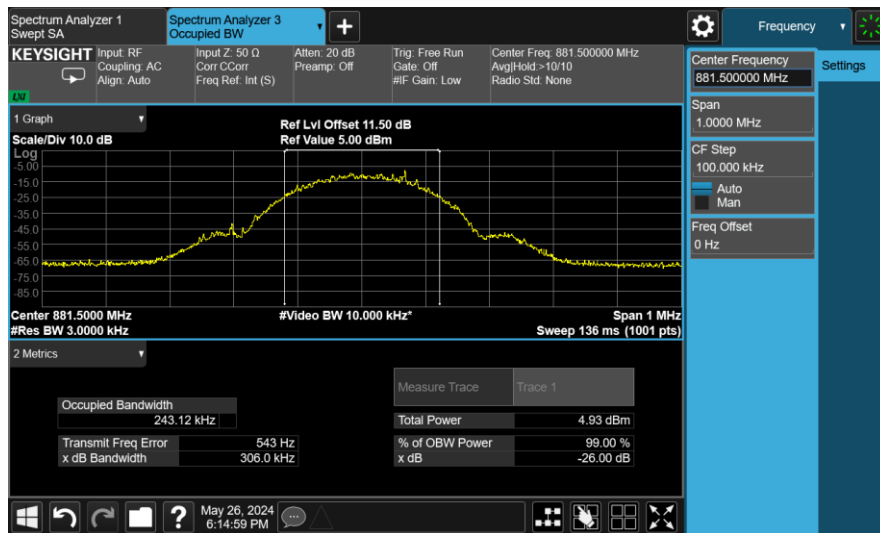
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### DL\_Cellular Band\_GSM signal type

#### Input



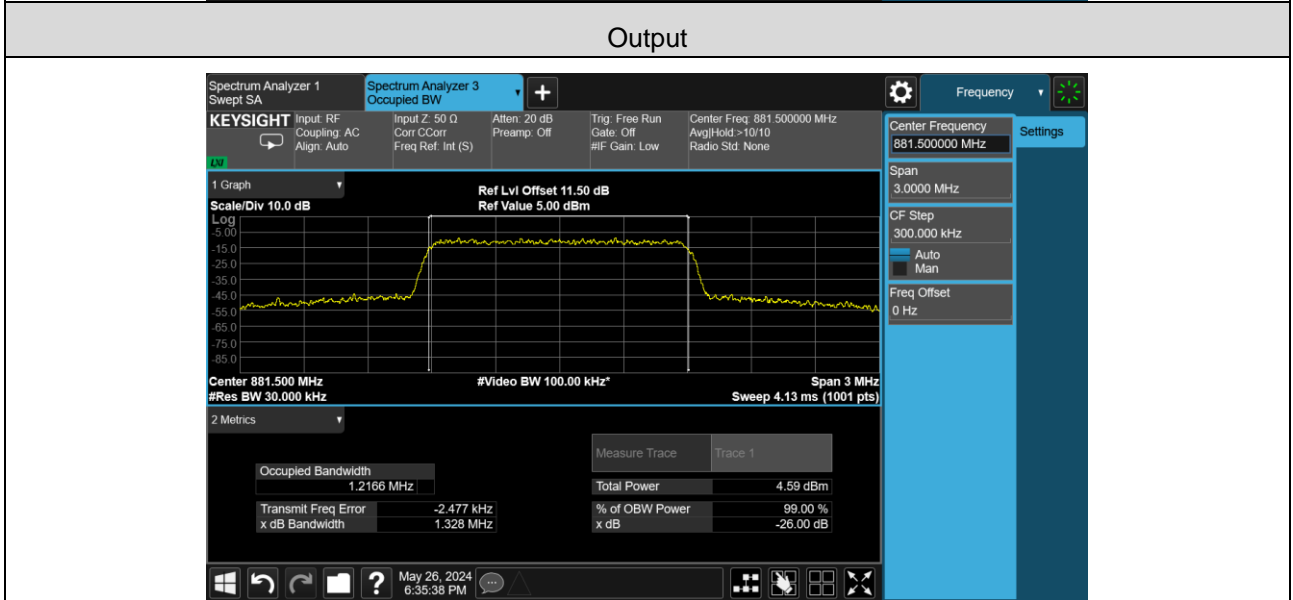
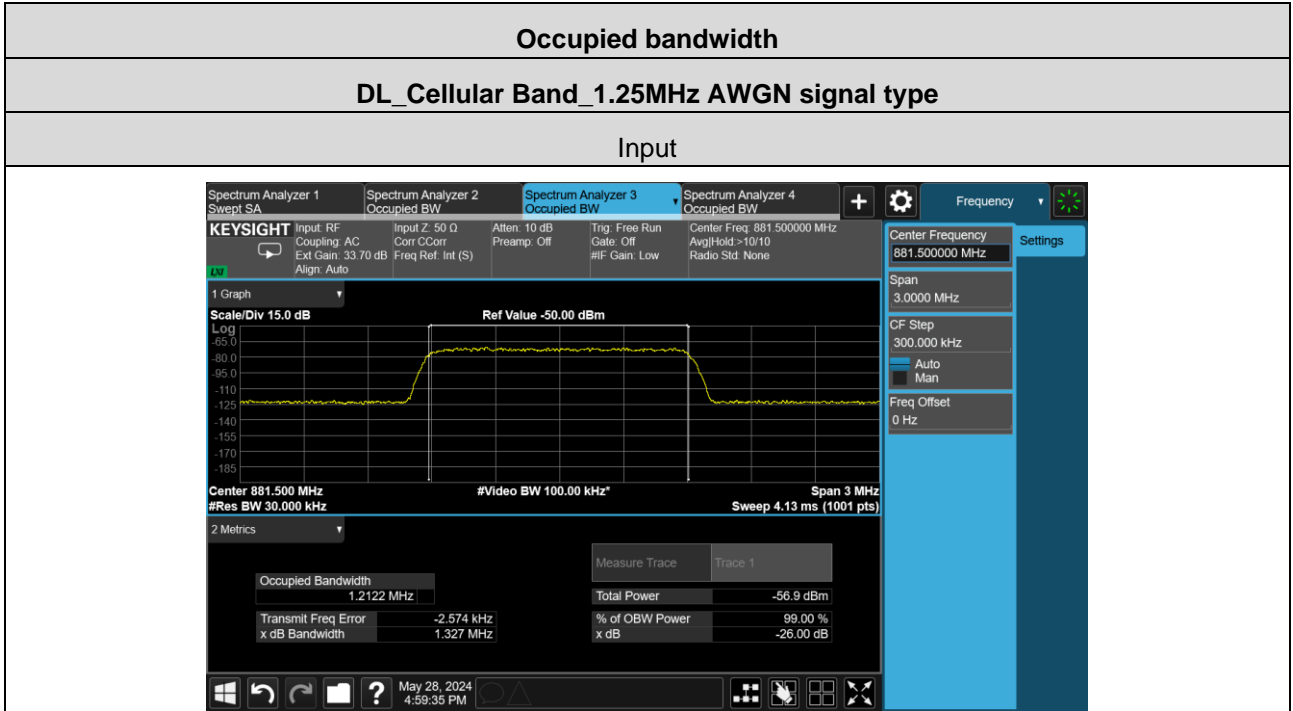
#### Output



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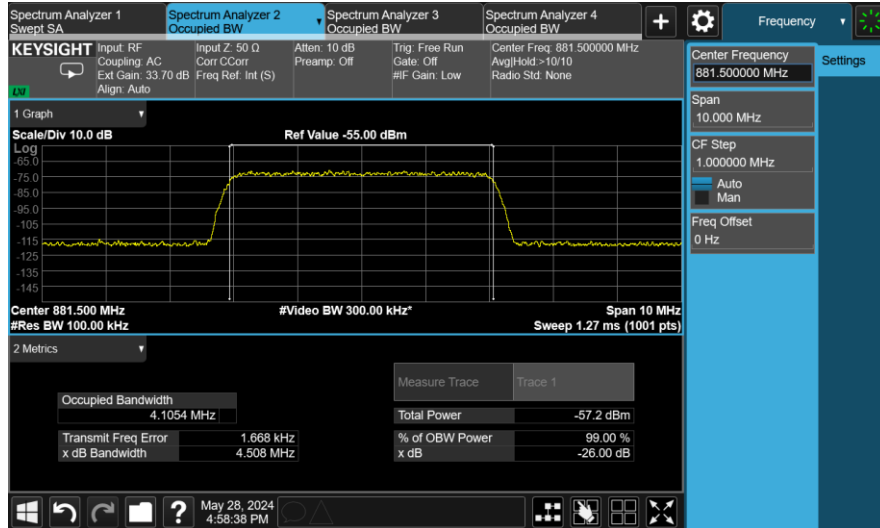
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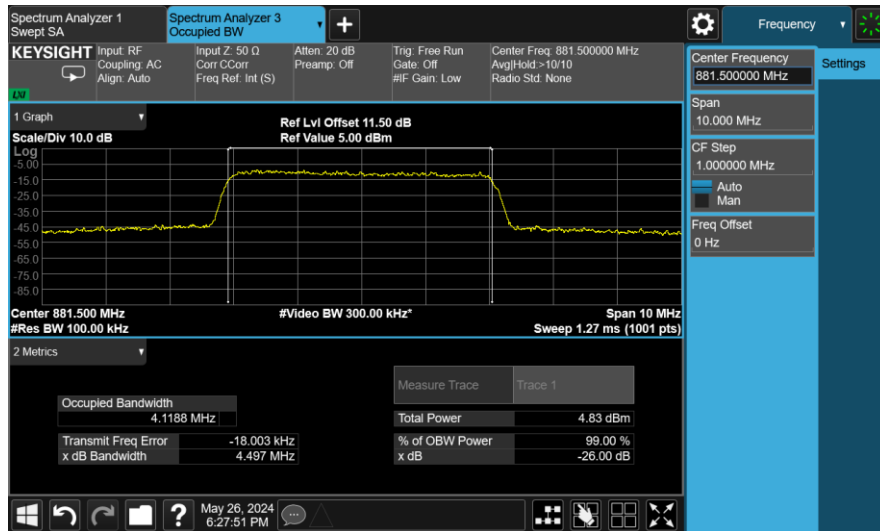


### DL\_Cellular Band 4.1MHz AWGN signal type

#### Input



#### Output



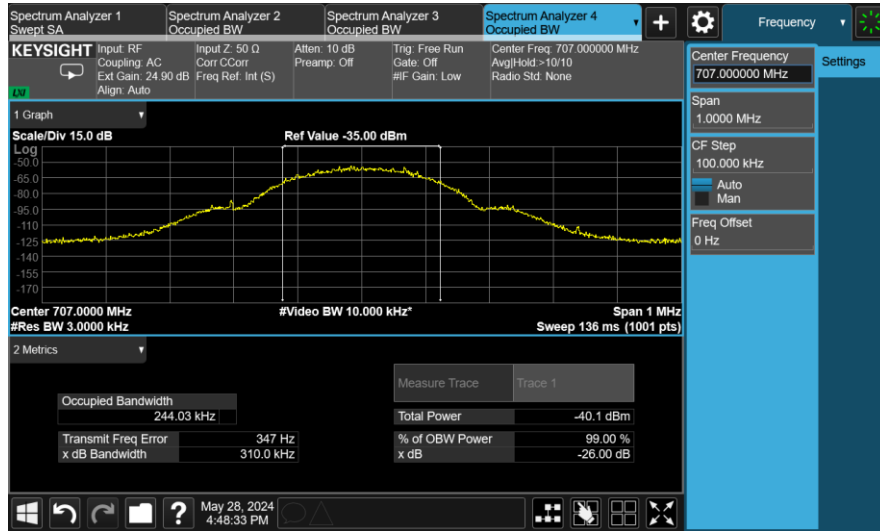
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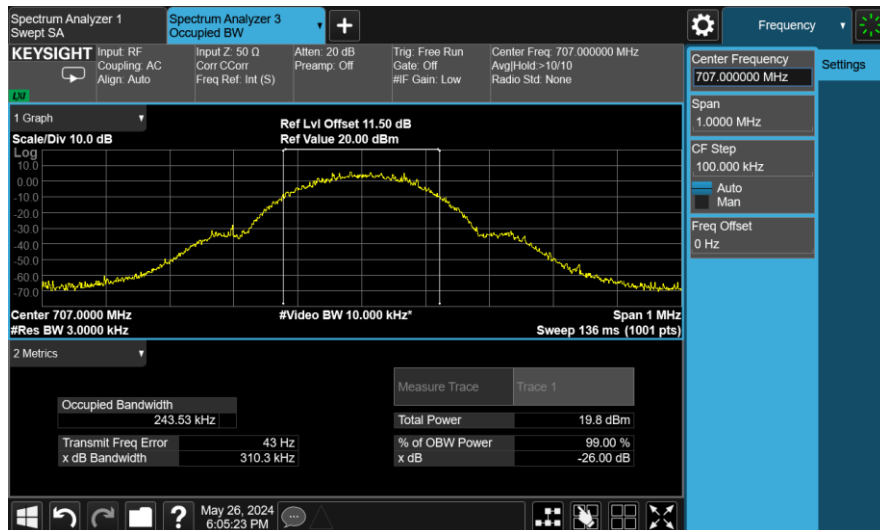
### Occupied bandwidth

#### UL\_Lower 700MHz Band\_GSM signal type

#### Input



#### Output



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