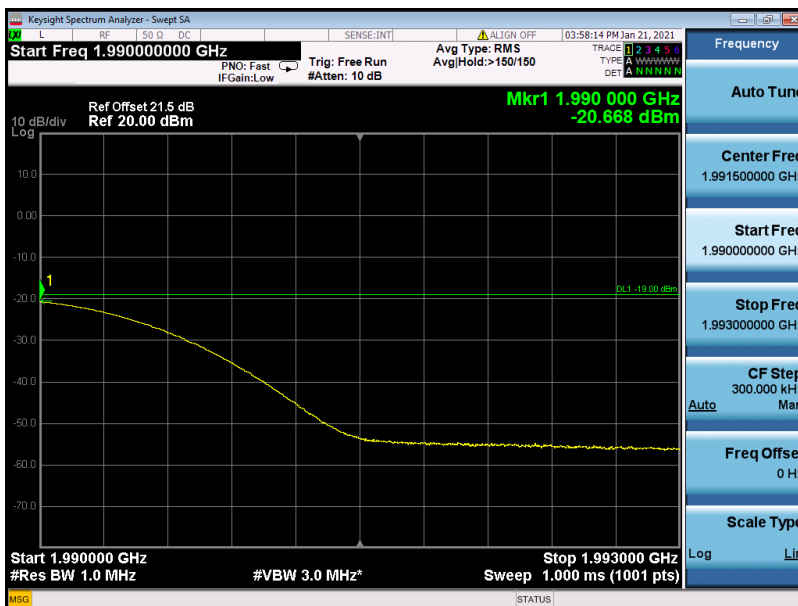


### Broadband PCS Band\_Upper band edge\_Pre-AGC



### Broadband PCS Band\_Upper band edge\_AG+10dB



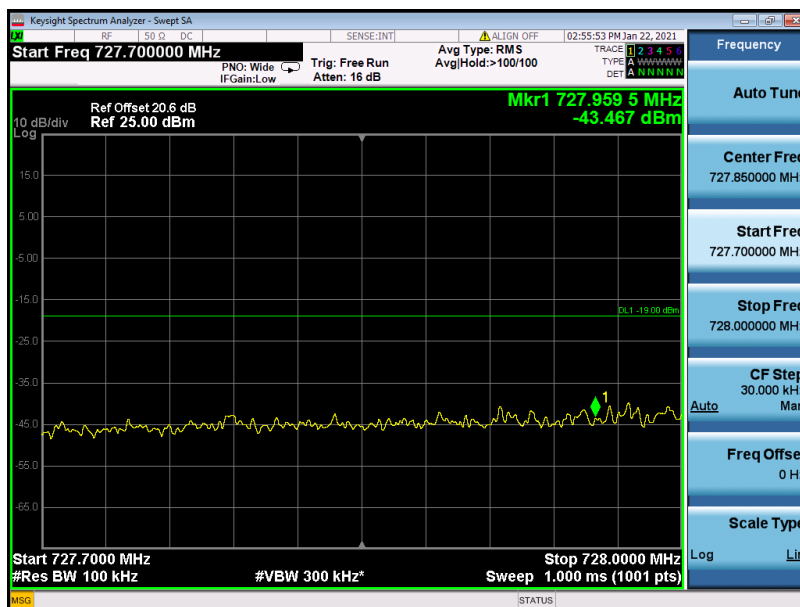
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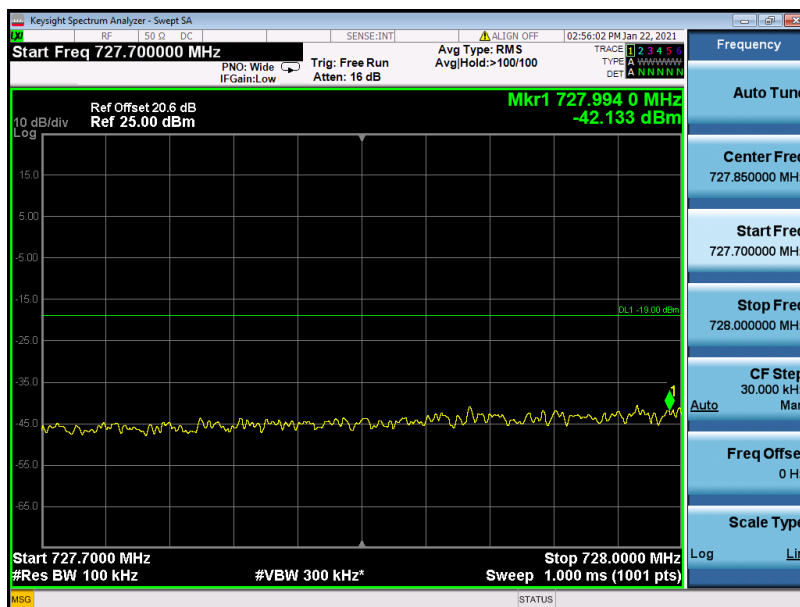
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### DOWNLINK\_1.25MHz AWGN signal type

700MHz (Lower 700MHz + Upper 700MHz) Band\_Lower band edge\_Pre-AGC



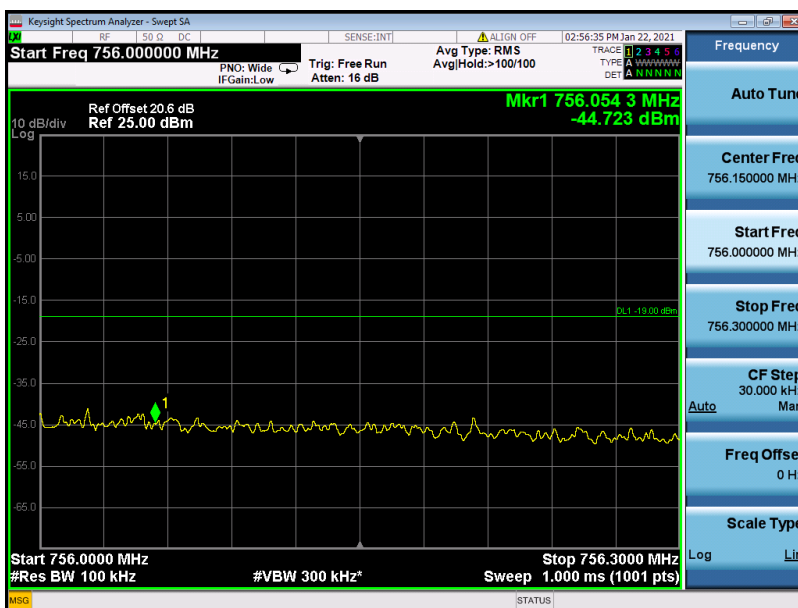
700MHz (Lower 700MHz + Upper 700MHz) Band\_Lower band edge\_AGC+10dB



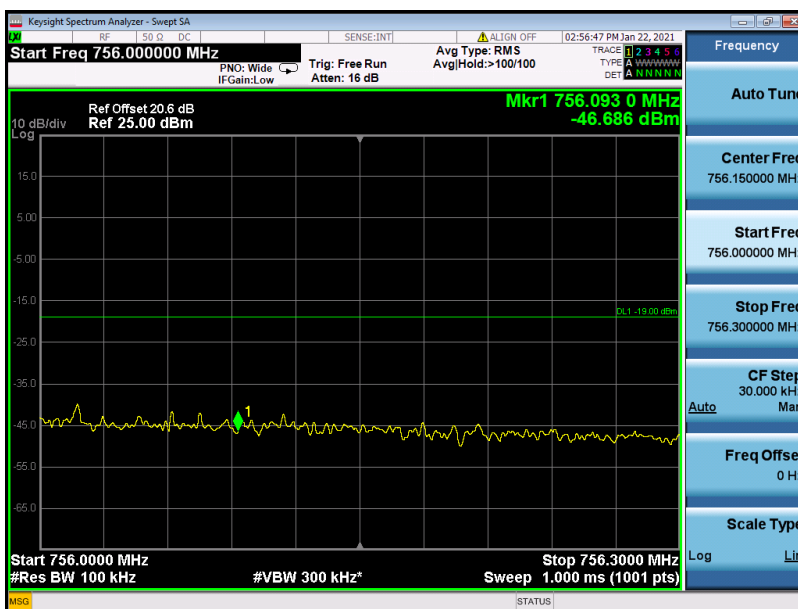
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### 700MHz (Lower 700MHz + Upper 700MHz) Band\_Upper band edge\_Pre-AGC



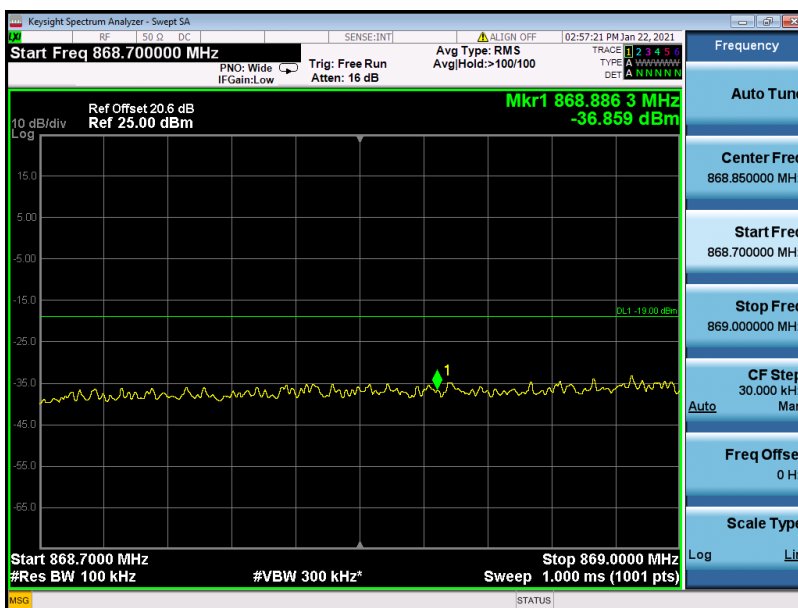
### 700MHz (Lower 700MHz + Upper 700MHz) Band\_Upper band edge\_AGC+10dB



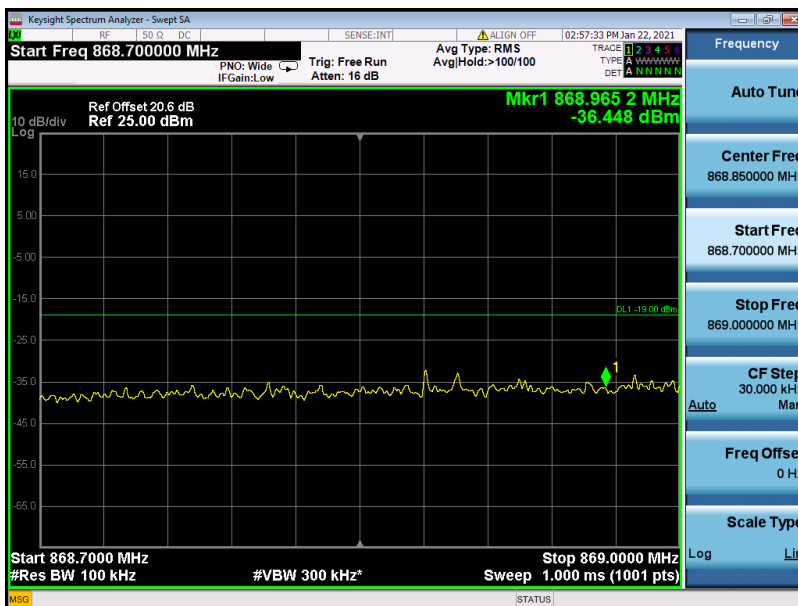
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### Cellular Band\_Lower band edge\_Pre-AGC



### Cellular Band\_Lower band edge\_AGC+10dB



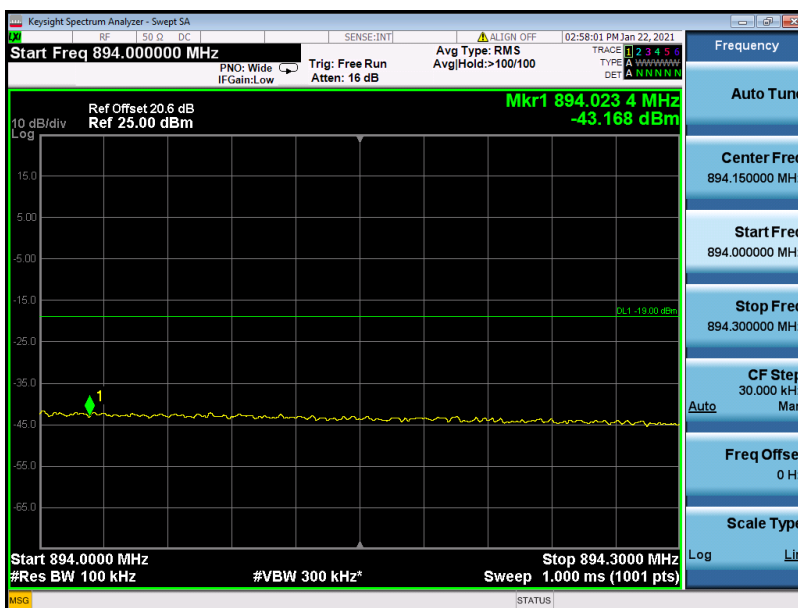
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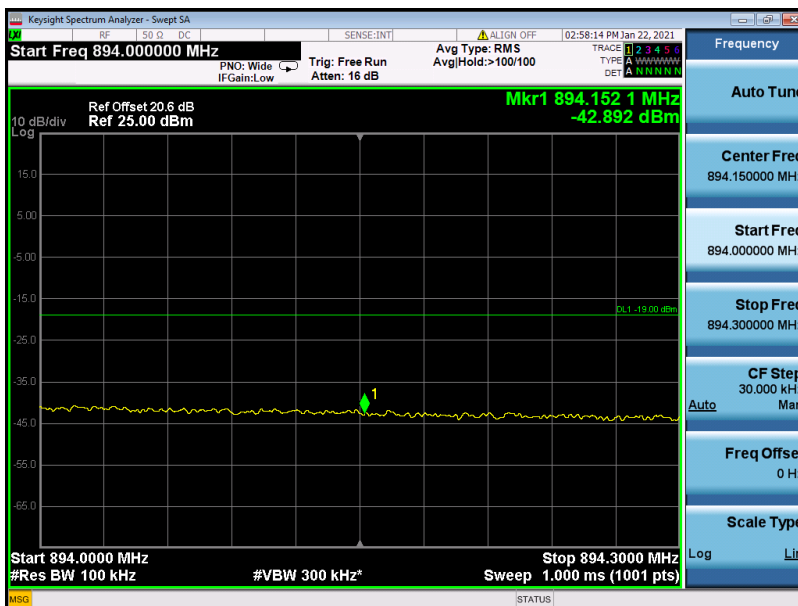
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## Cellular Band\_Upper band edge\_Pre-AGC



## Cellular Band\_Upper band edge\_AGC+10dB

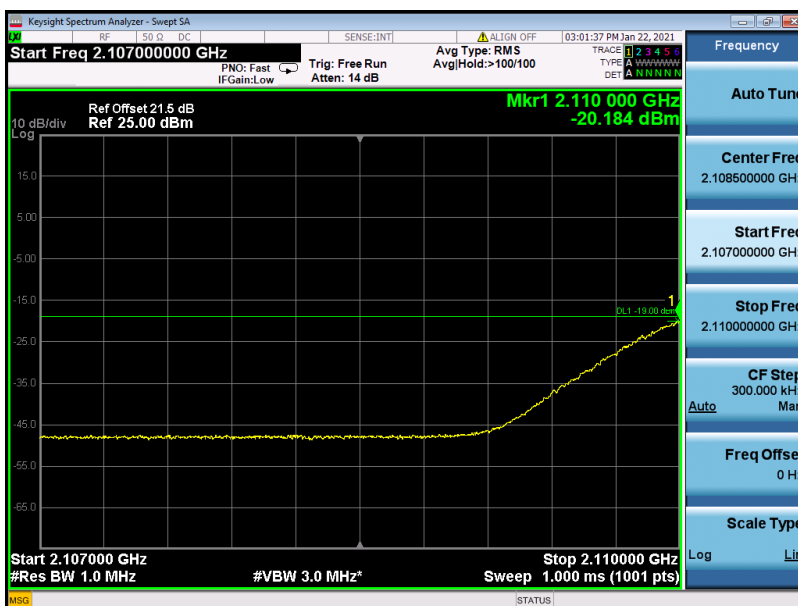


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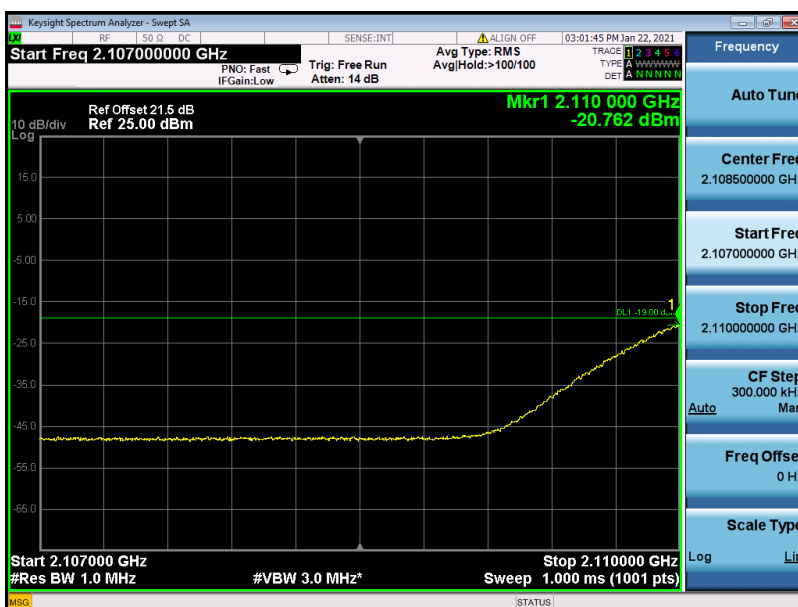
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### AWS-1 Band\_Lower band edge\_Pre-AGC



### AWS-1 Band\_Lower band edge\_AGC+10dB

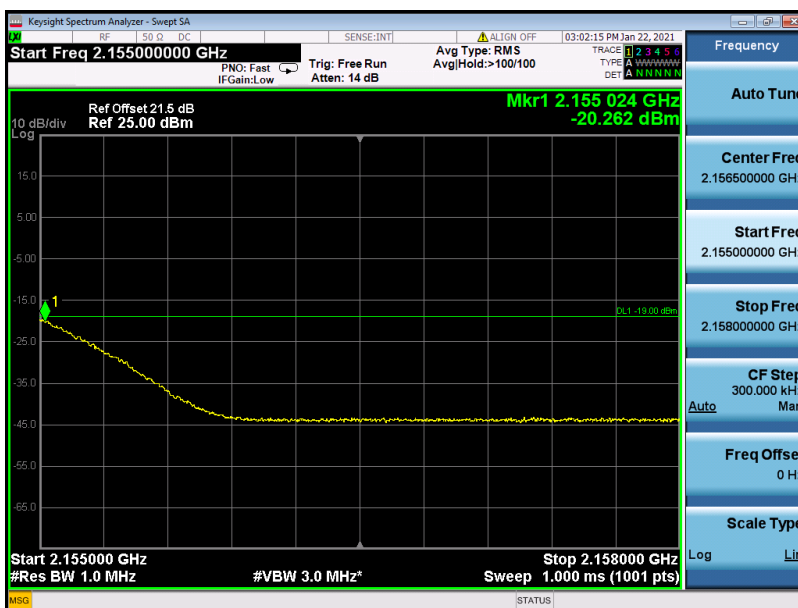


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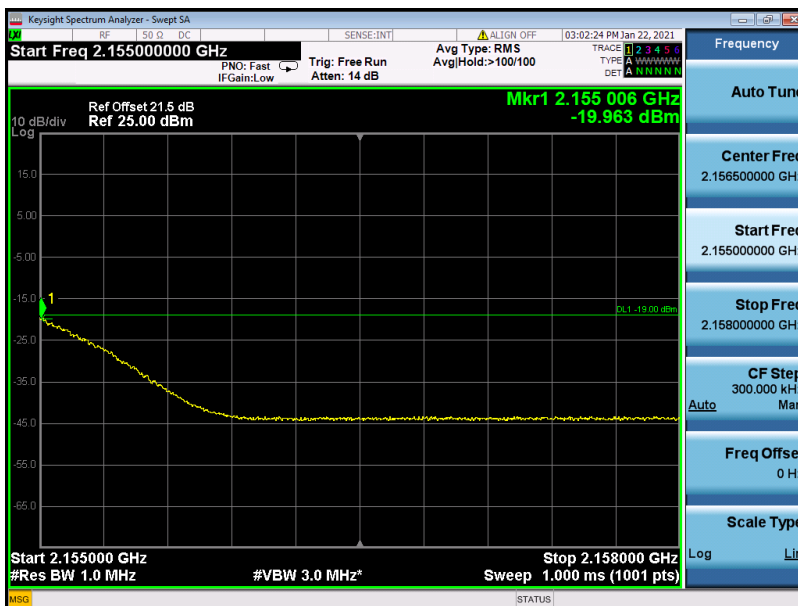
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### AWS-1 Band\_Upper band edge\_Pre-AGC



### AWS-1 Band\_Upper band edge\_AGC+10dB

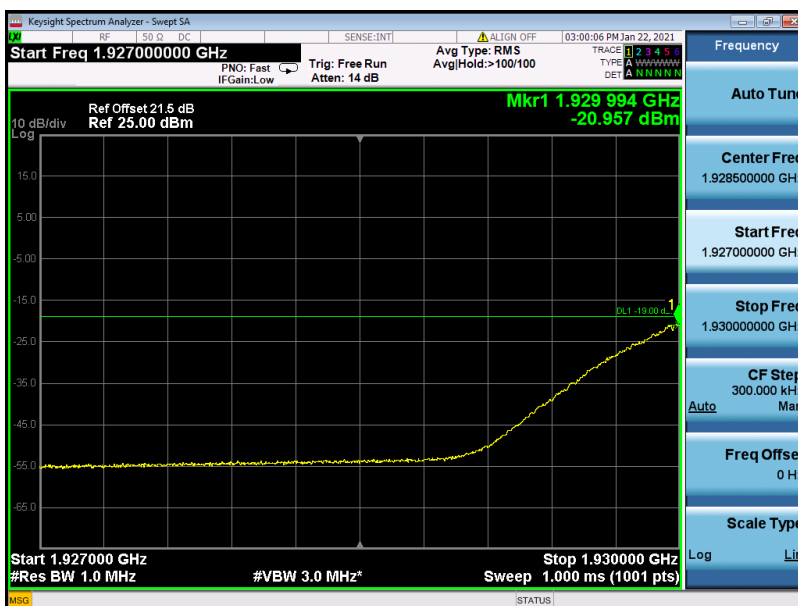


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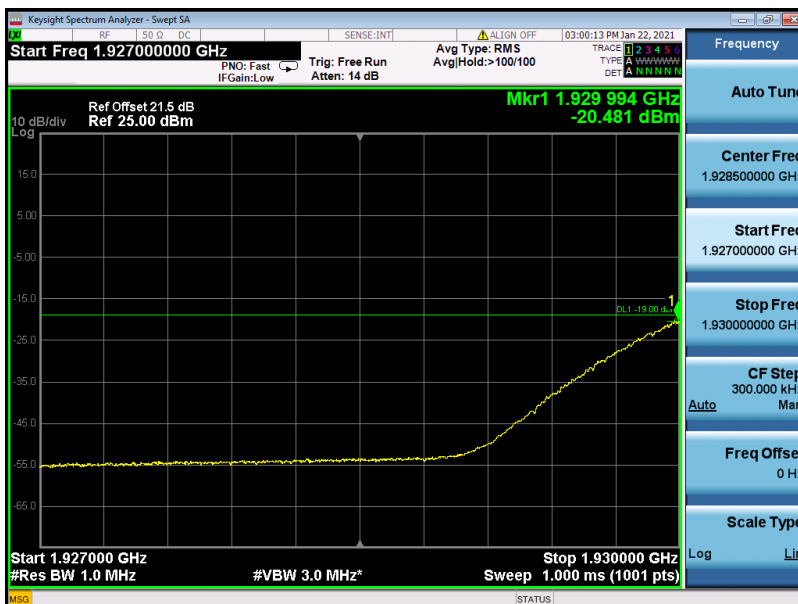
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### Broadband PCS Band\_Lower band edge\_Pre-AGC



### Broadband PCS Band\_Lower band edge\_AGC+10dB



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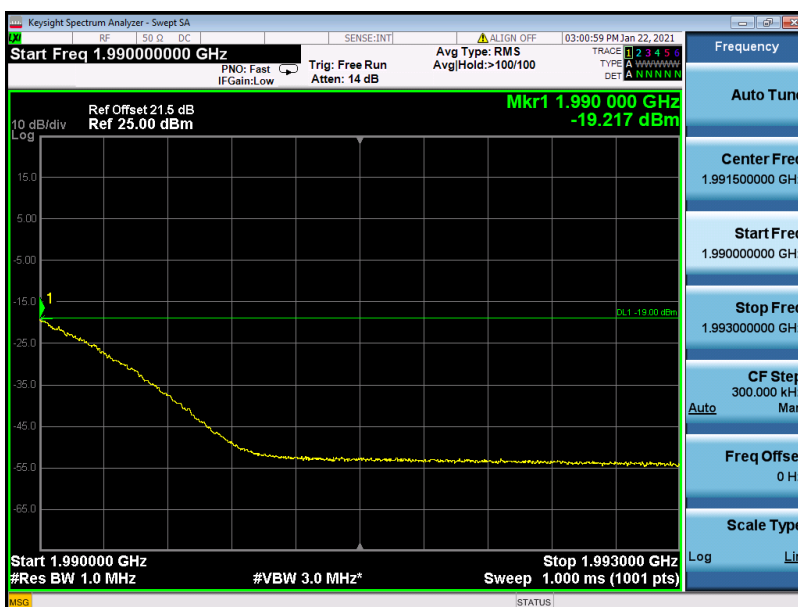
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### Broadband PCS Band\_Upper band edge\_Pre-AGC



### Broadband PCS Band\_Upper band edge\_AGC+10dB

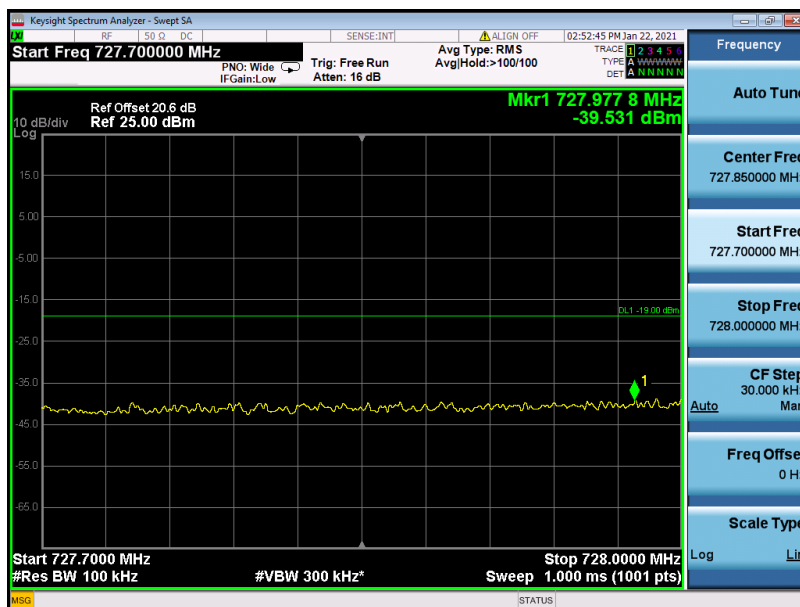


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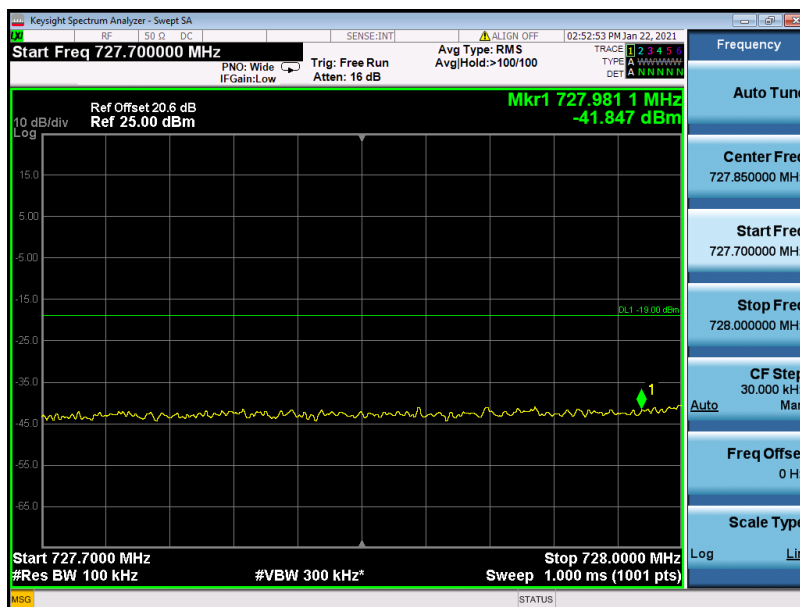
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### DOWNLINK\_4.1MHz AWGN signal type

700MHz (Lower 700MHz + Upper 700MHz) Band\_Lower band edge\_Pre-AGC



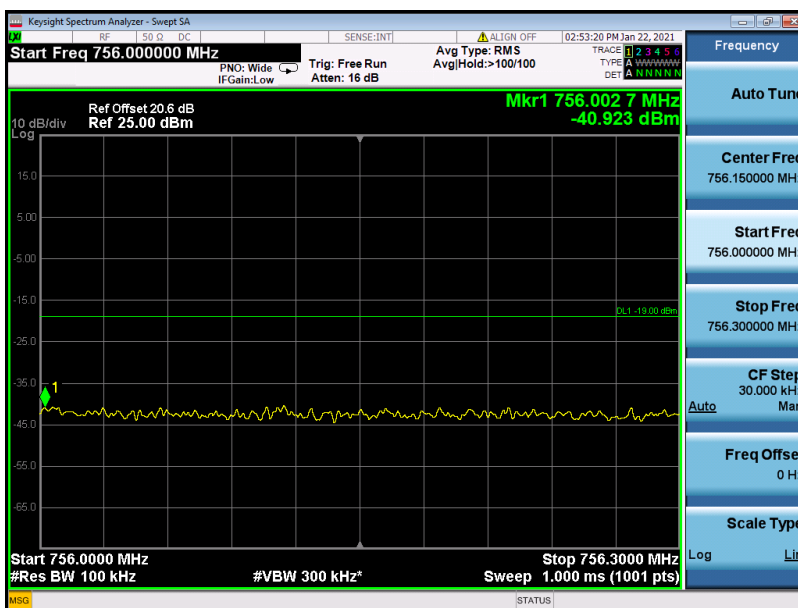
700MHz (Lower 700MHz + Upper 700MHz) Band\_Lower band edge\_AGC+10dB



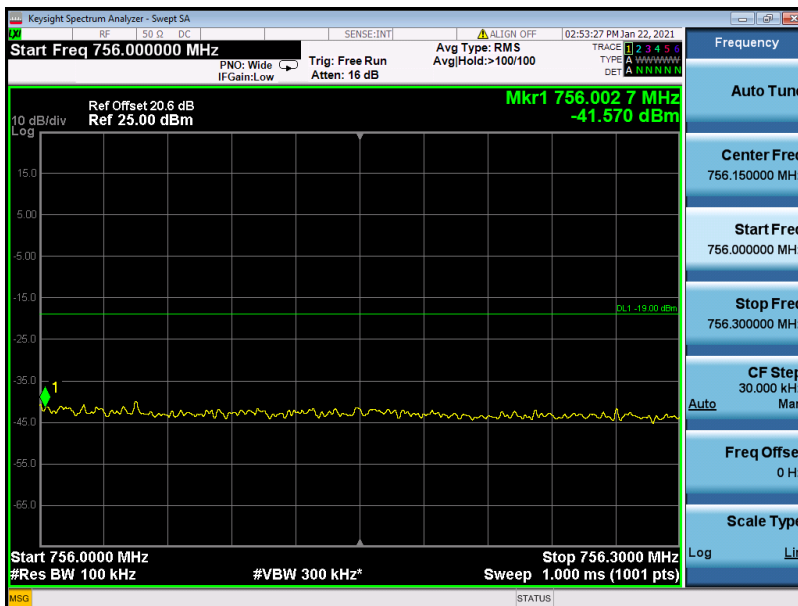
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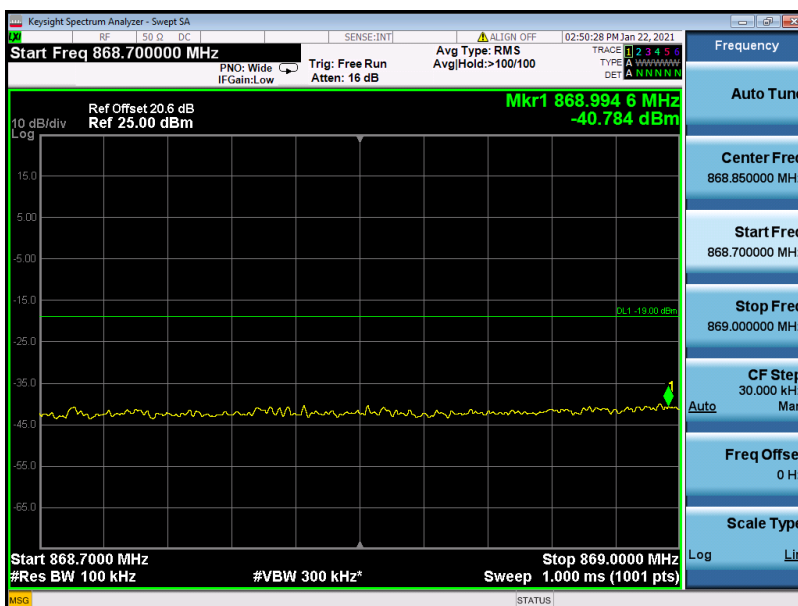
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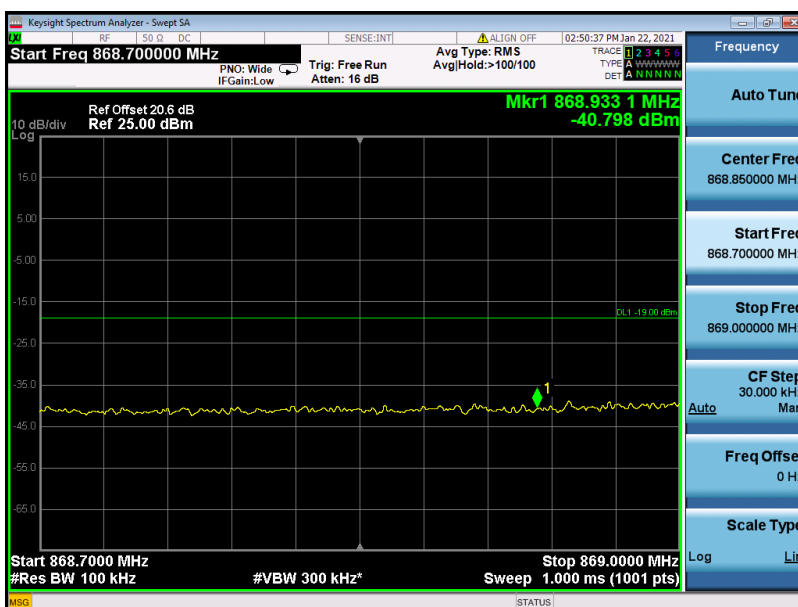
### 700MHz (Lower 700MHz + Upper 700MHz) Band\_Upper band edge\_AGC+10dB



### Cellular Band\_Lower band edge\_Pre-AGC



### Cellular Band\_Lower band edge\_AGC+10dB

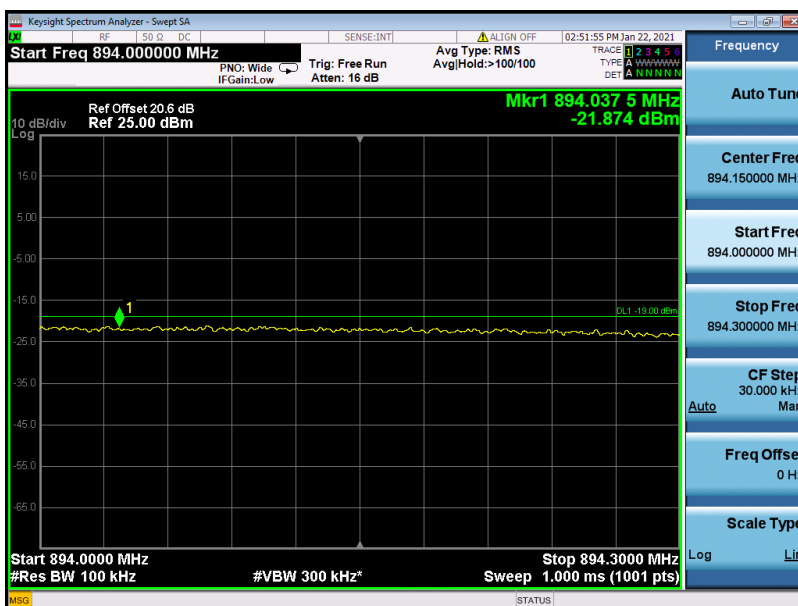


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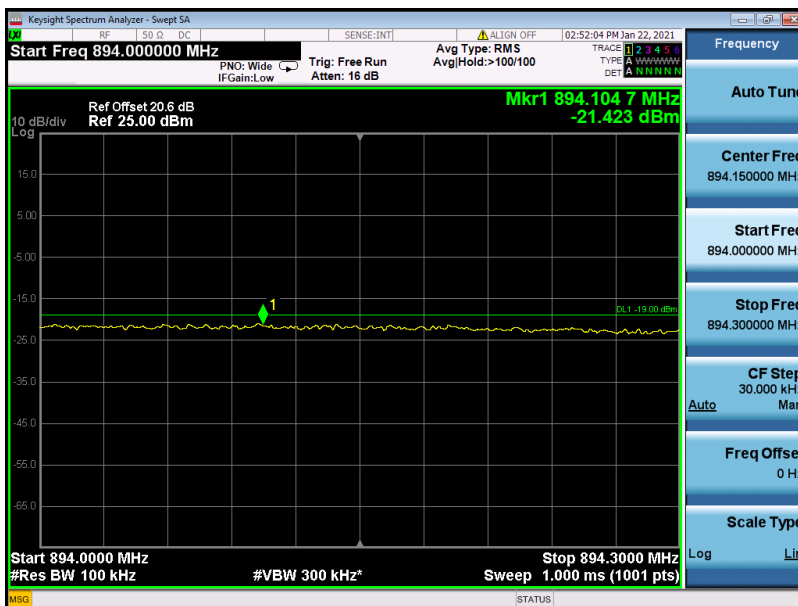
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### Cellular Band\_Upper band edge\_Pre-AGC



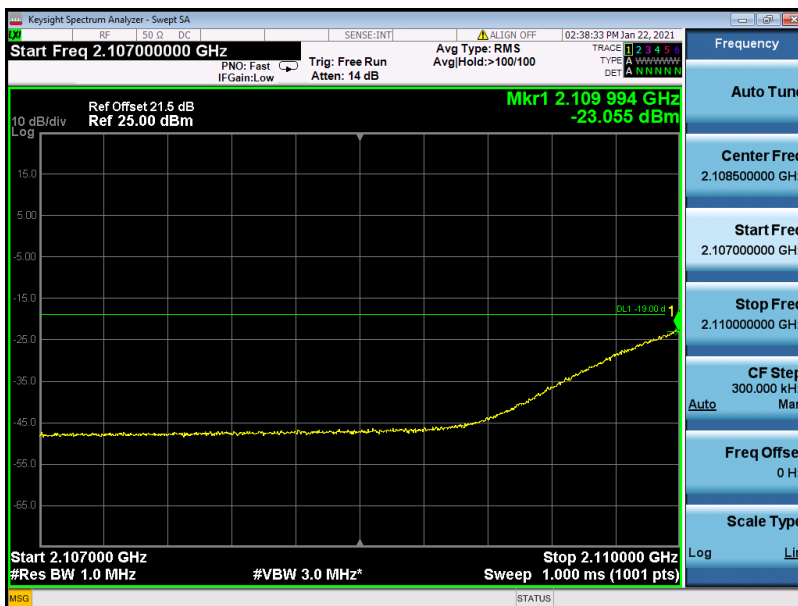
### Cellular Band\_Upper band edge\_AGC+10dB



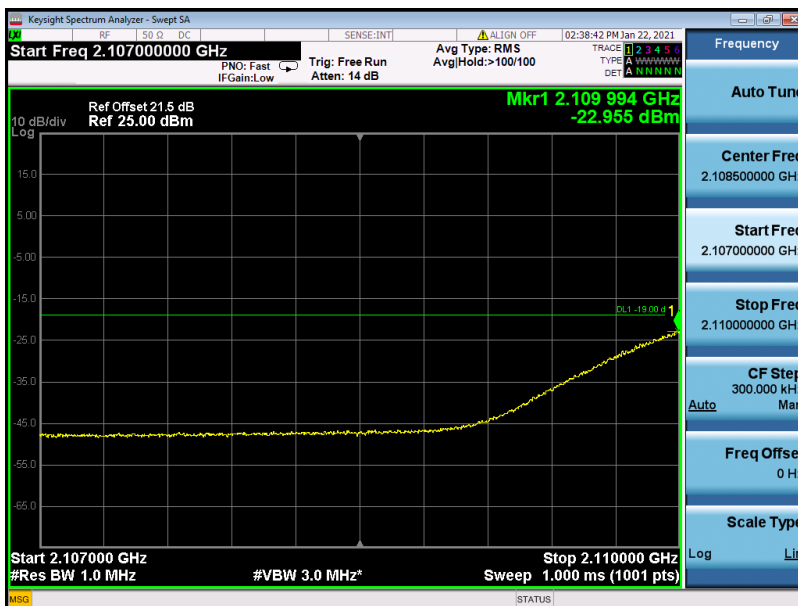
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### AWS-1 Band\_Lower band edge\_Pre-AGC



### AWS-1 Band\_Lower band edge\_AGC+10dB

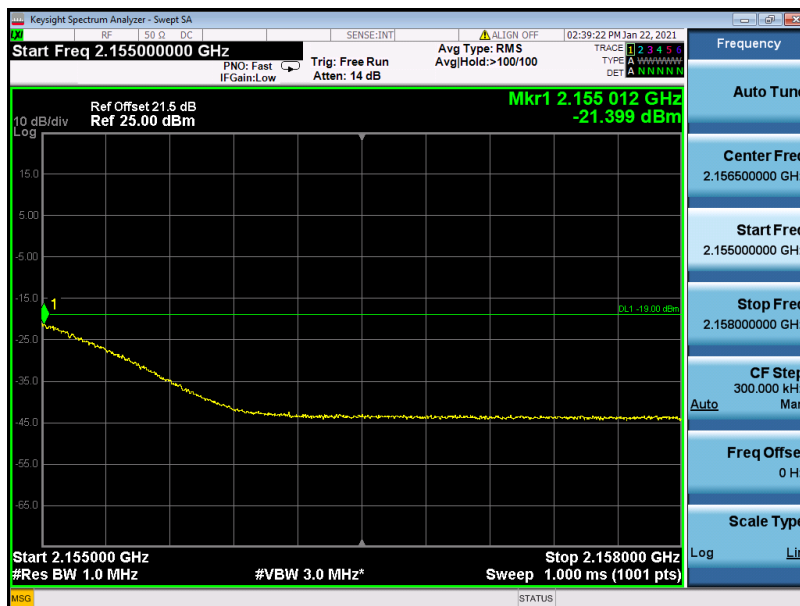


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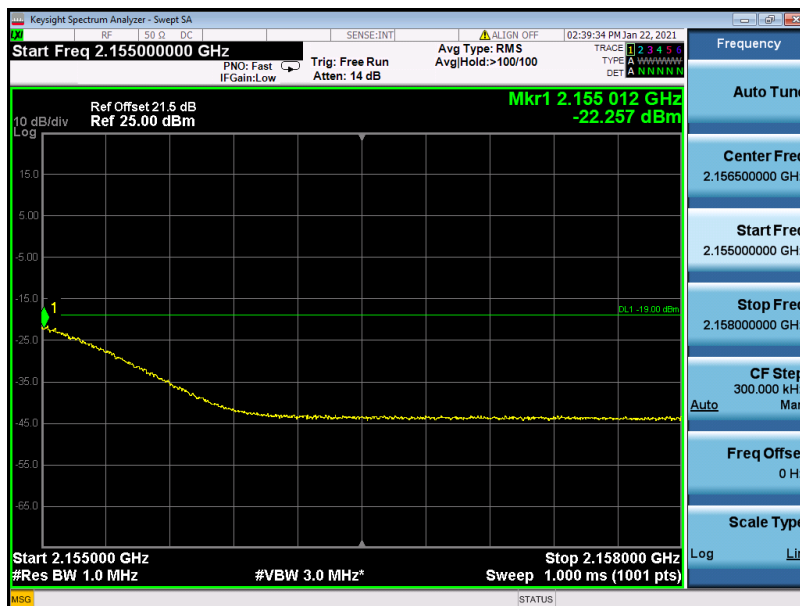
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### AWS-1 Band\_Upper band edge\_Pre-AGC



### AWS-1 Band\_Upper band edge\_AGC+10dB

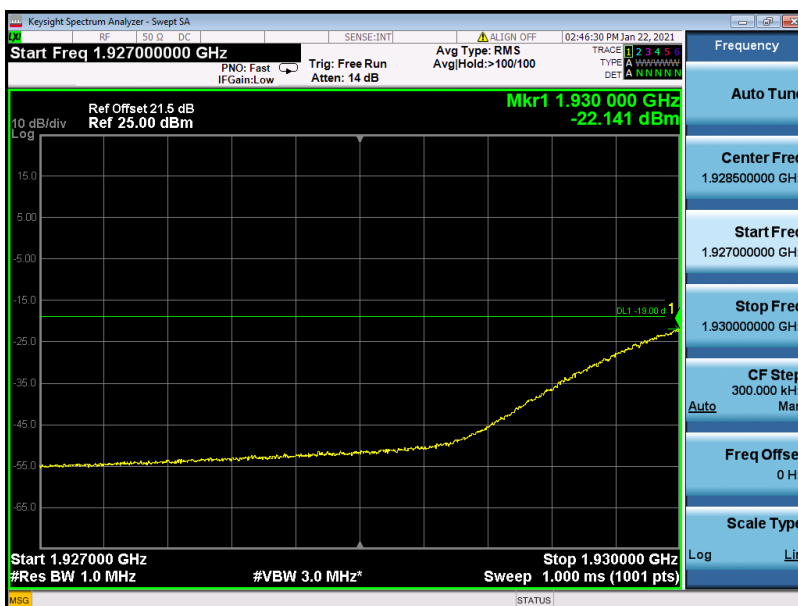


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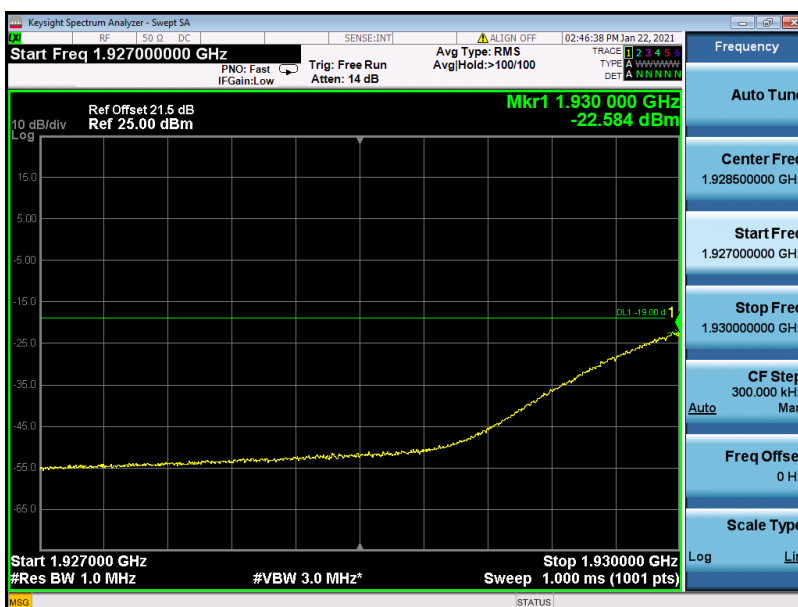
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### Broadband PCS Band\_Lower band edge\_Pre-AGC



### Broadband PCS Band\_Lower band edge\_AGC+10dB



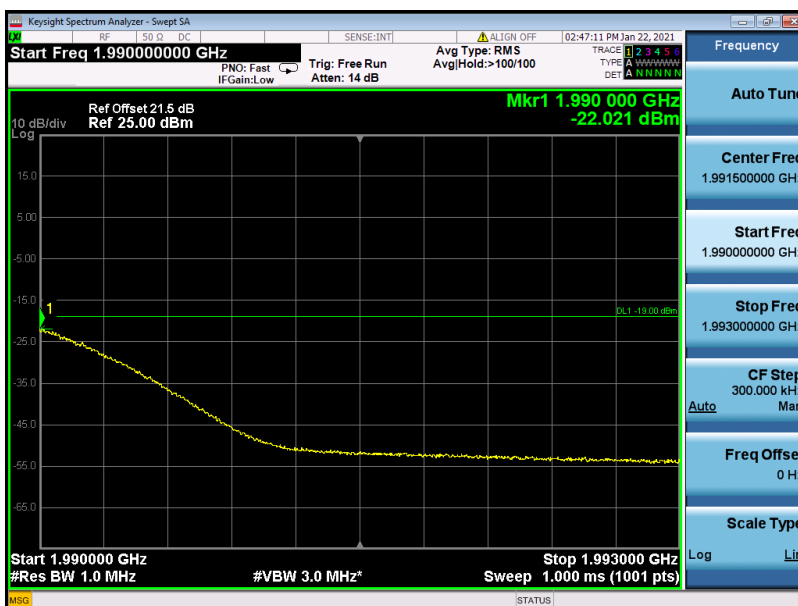
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### Broadband PCS Band\_Upper band edge\_Pre-AGC



### Broadband PCS Band\_Upper band edge\_AGC+10dB



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## 6 Conducted spurious emissions

Note:

*20.21(e)(8)(i)(E) Out of Band Emission Limits:*

Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for the supported bands of operation.

*27.53(c)*

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

So,

The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

So,

The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations.

So,

The limit =  $\{P - [76 + 10 \log (P)]\} - 6\text{dB} = -52\text{dBm}$

*27.53(g)*

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB.

So,

The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

*27.53(h)*

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P)$  dB.

So,

The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

*22.917*

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.

So,

The limit =  $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$



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24.238

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.

So,

The limit =  $\{P - [43 + 10 \log(P)]\} - 6\text{dB} = -19\text{dBm}$

2. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for spurious emissions in this report, the center frequency is 742MHz.

Nonetheless, the emissions on all frequencies 763-775MHz and 793-805MHz only applies to the operations in the 746-758MHz band and 776-788MHz band, the test signal frequency was configured 751MHz (the center frequency of Upper 700MHz downlink).

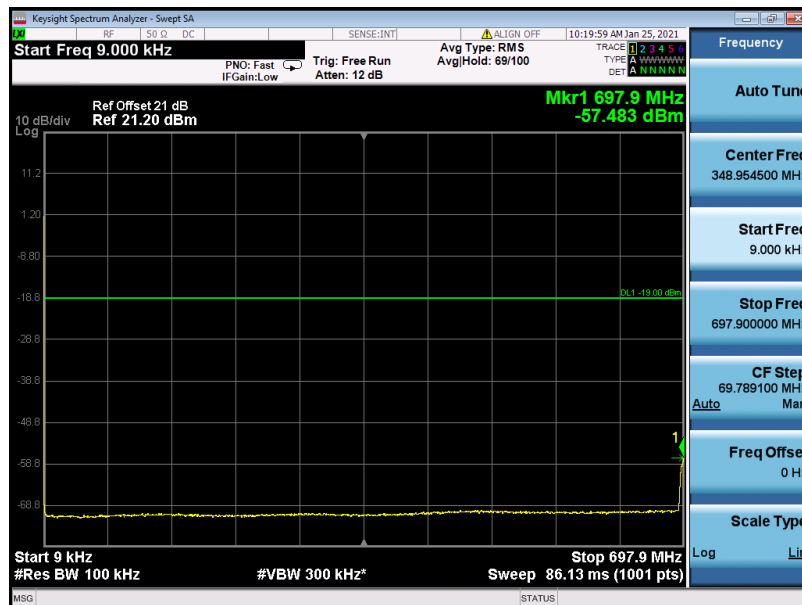


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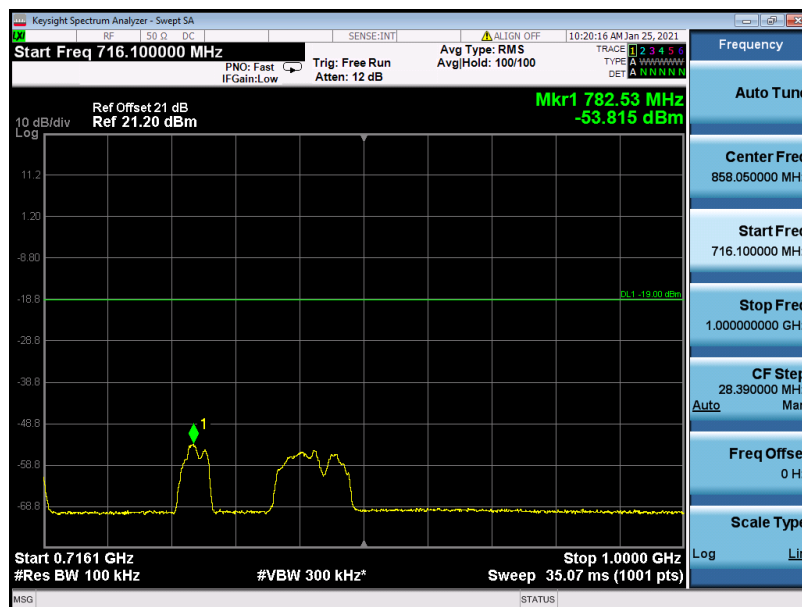
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### UPLINK\_4.1MHz AWGN signal type

#### Lower 700MHz Band



#### Lower 700MHz Band

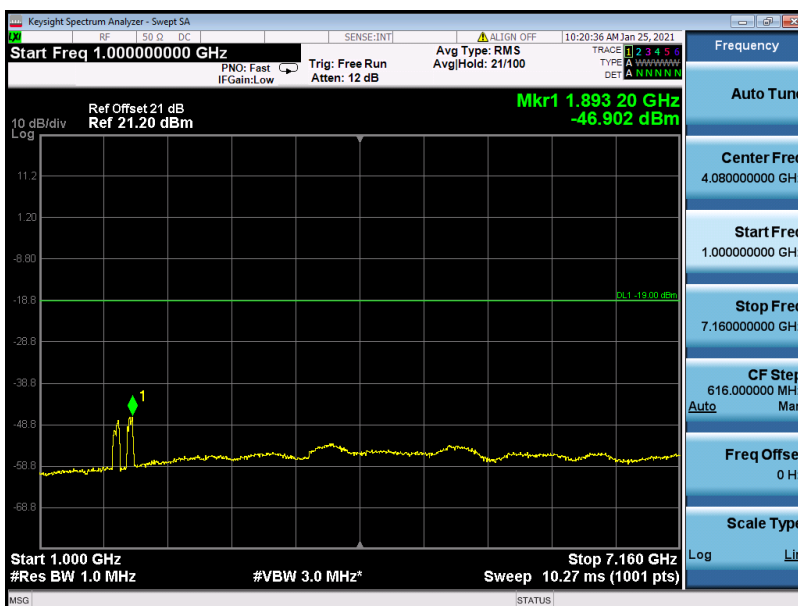


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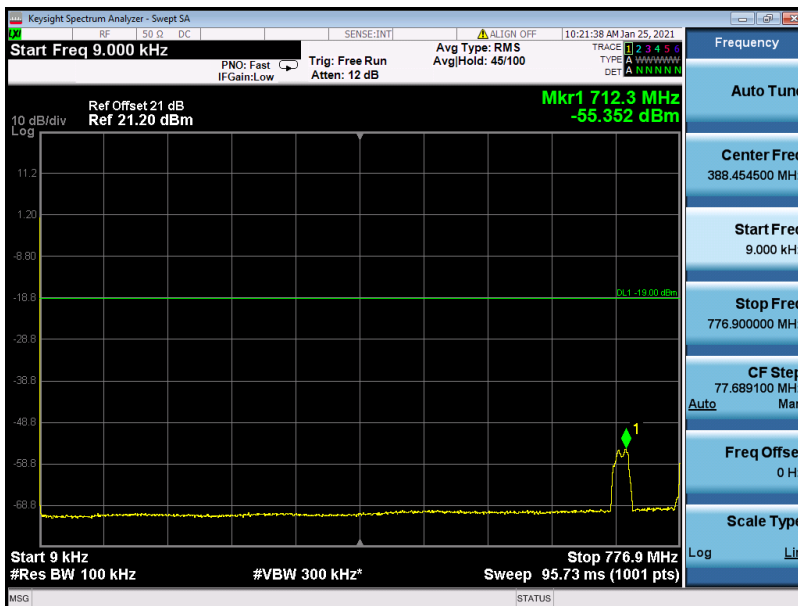
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### Lower 700MHz Band



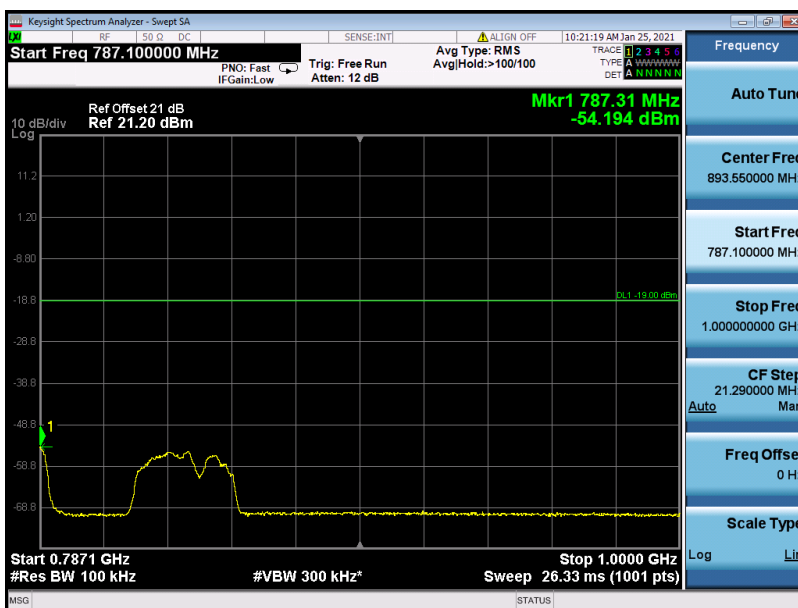
### Upper 700MHz Band



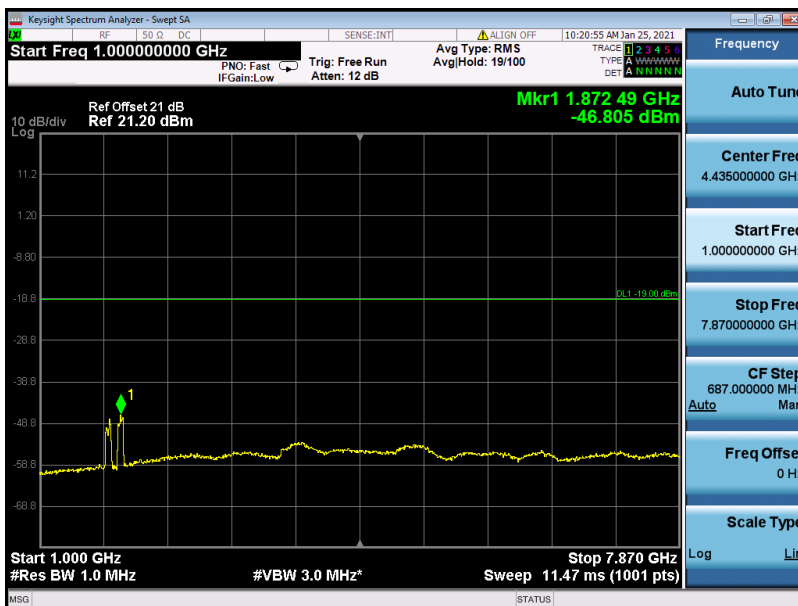
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### Upper 700MHz Band



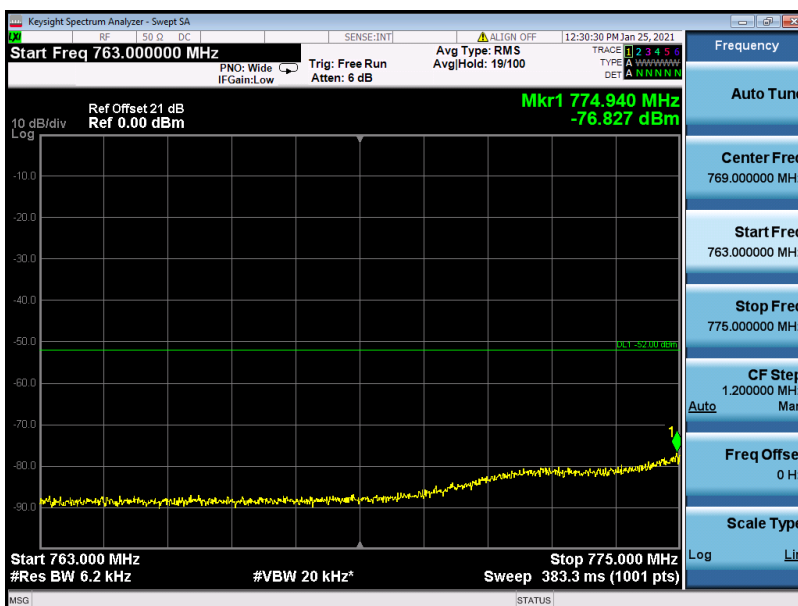
### Upper 700MHz Band



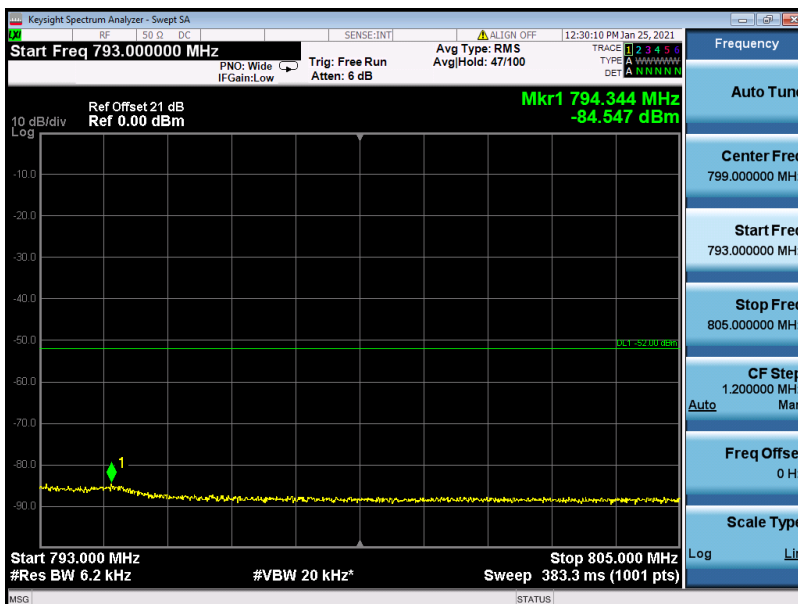
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### Upper 700MHz Band



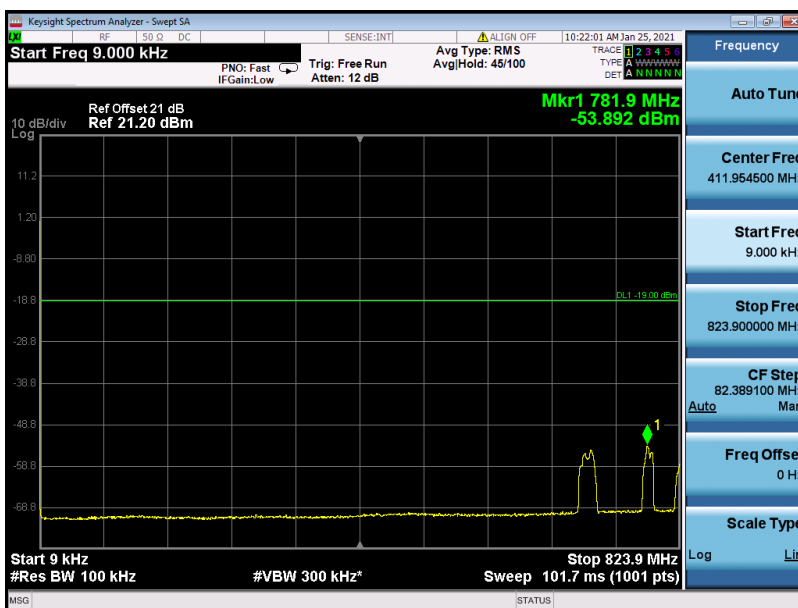
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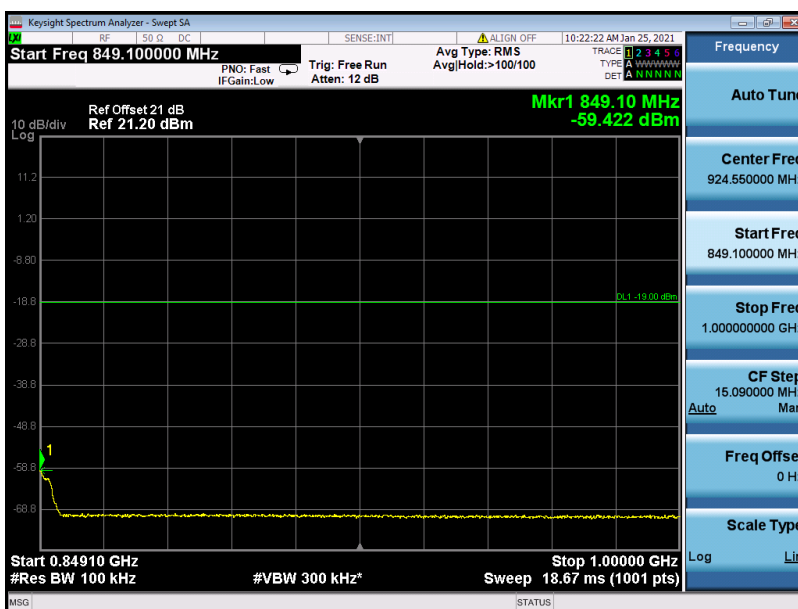
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### Cellular Band



### Cellular Band

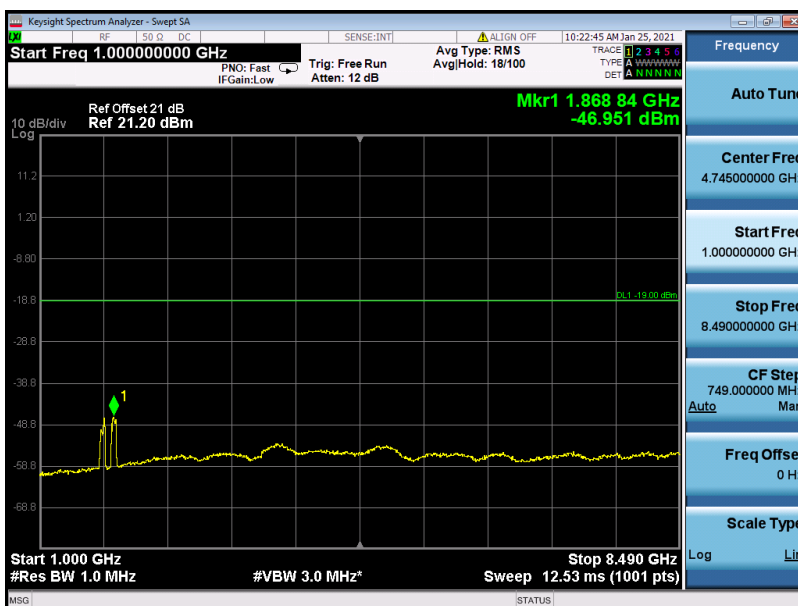


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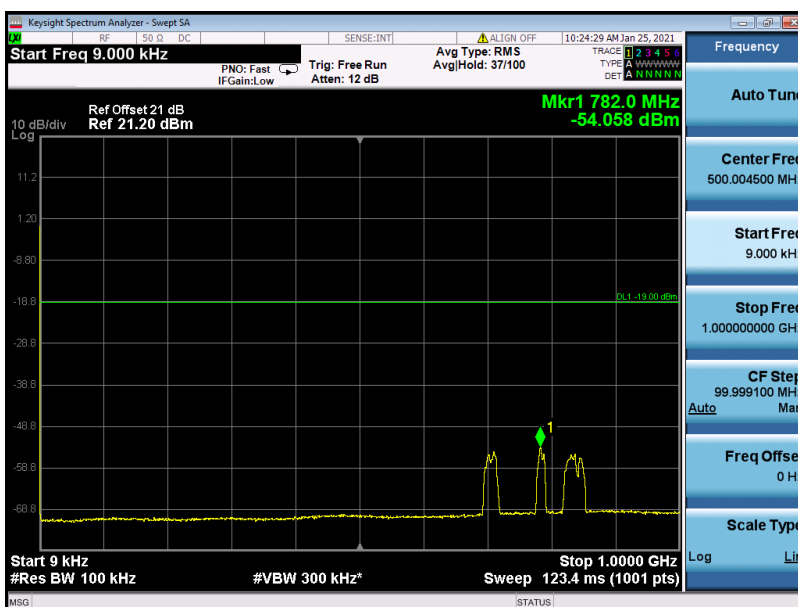
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### Cellular Band



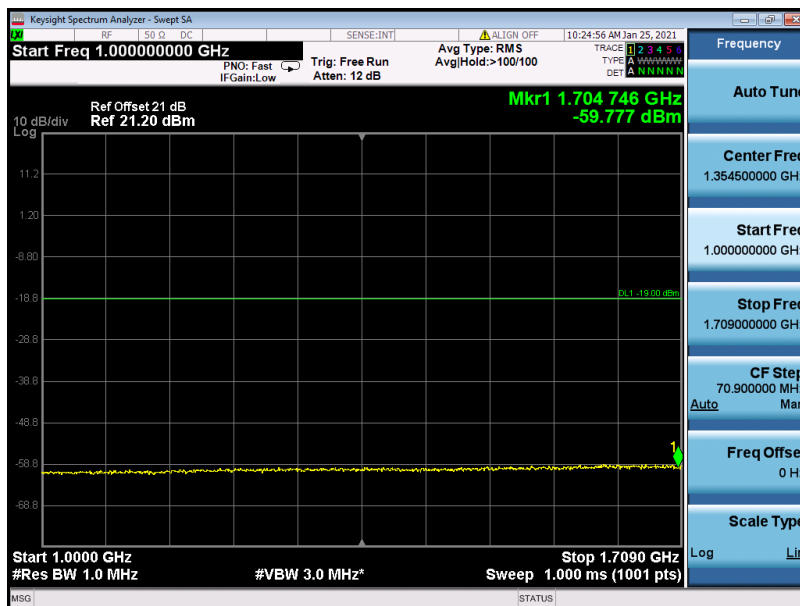
### AWS-1 Band



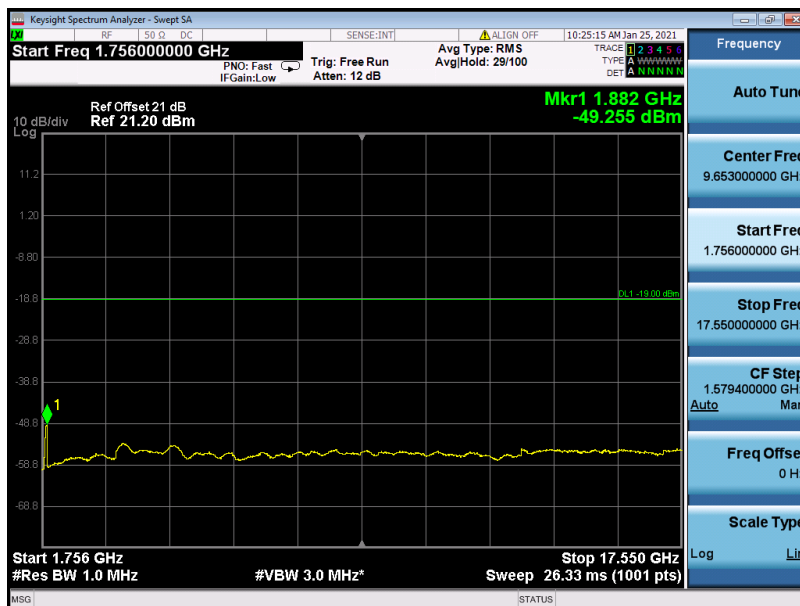
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### AWS-1 Band



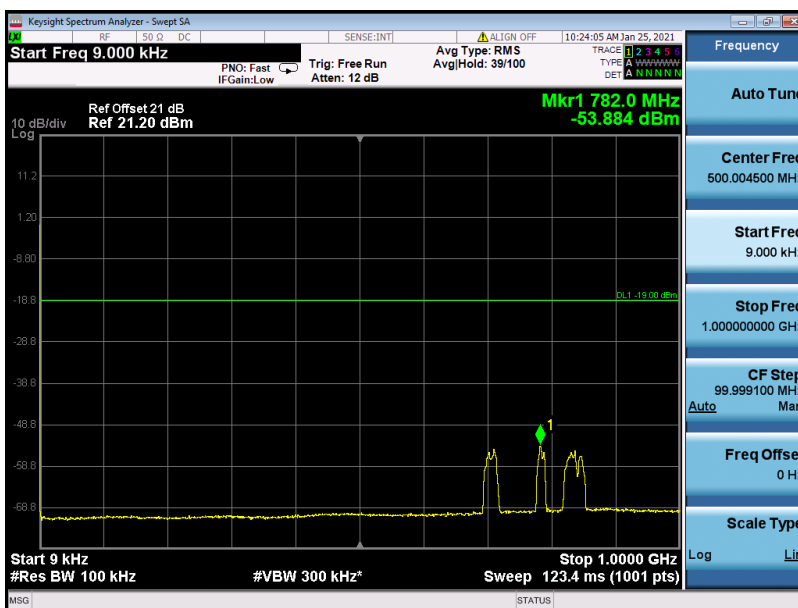
### AWS-1 Band



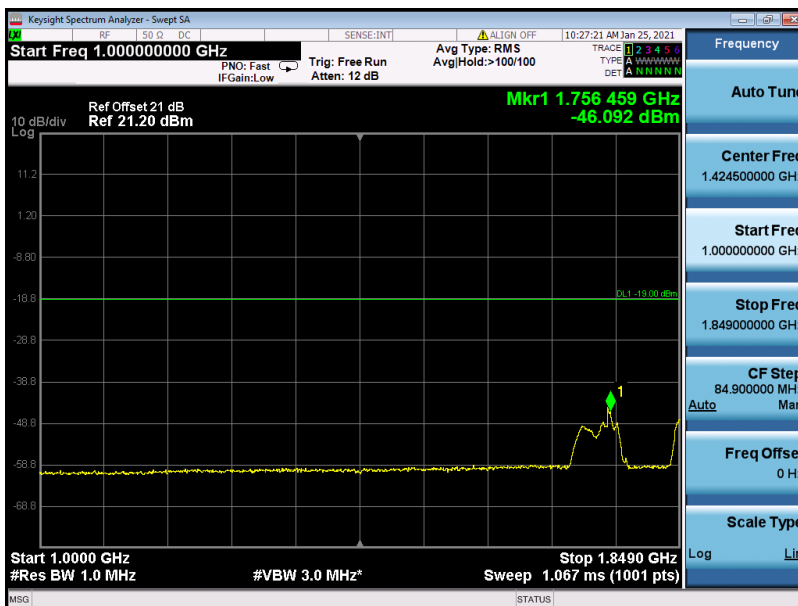
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### Broadband PCS Band



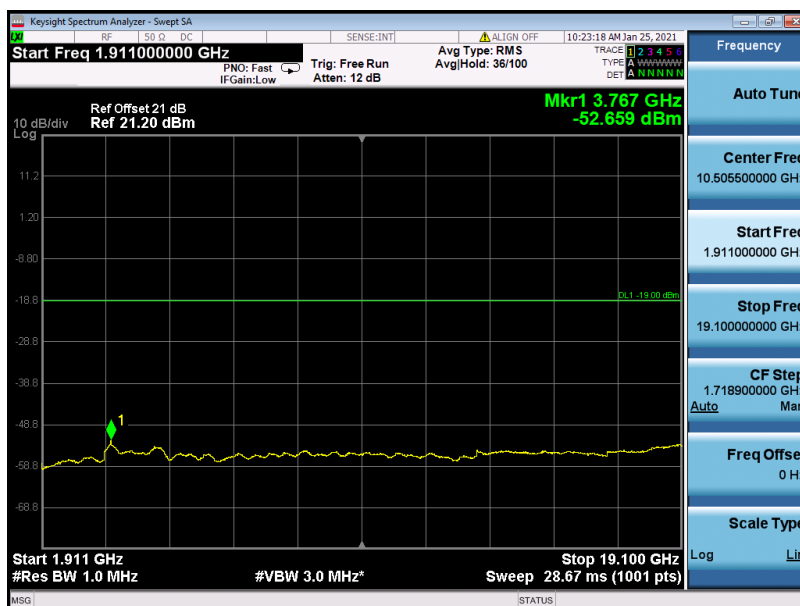
### Broadband PCS Band



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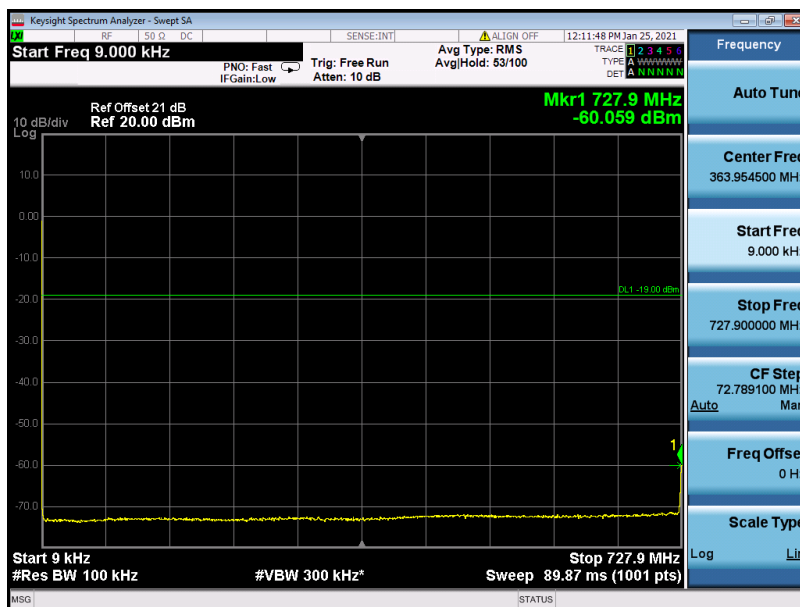
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## Broadband PCS Band



## DOWNLINK\_4.1MHz AWGN signal type

## 700MHz (Lower 700MHz + Upper 700MHz) Band



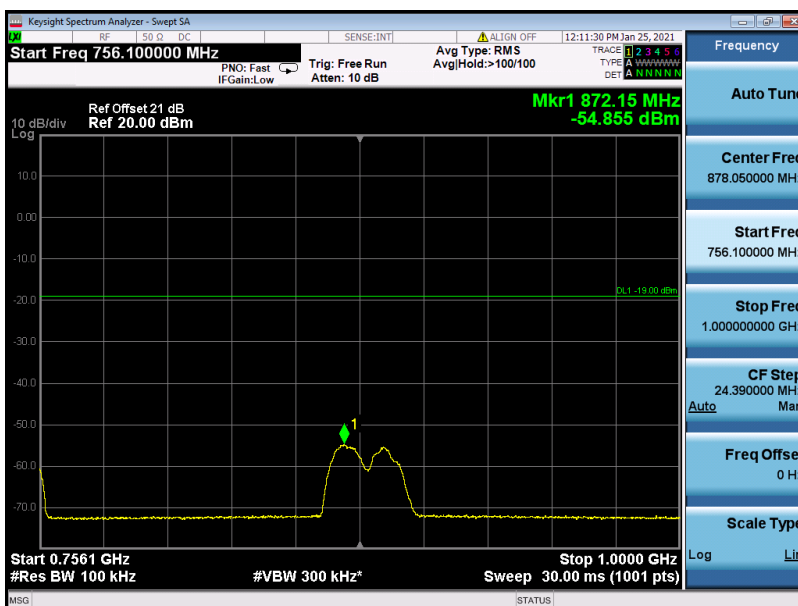
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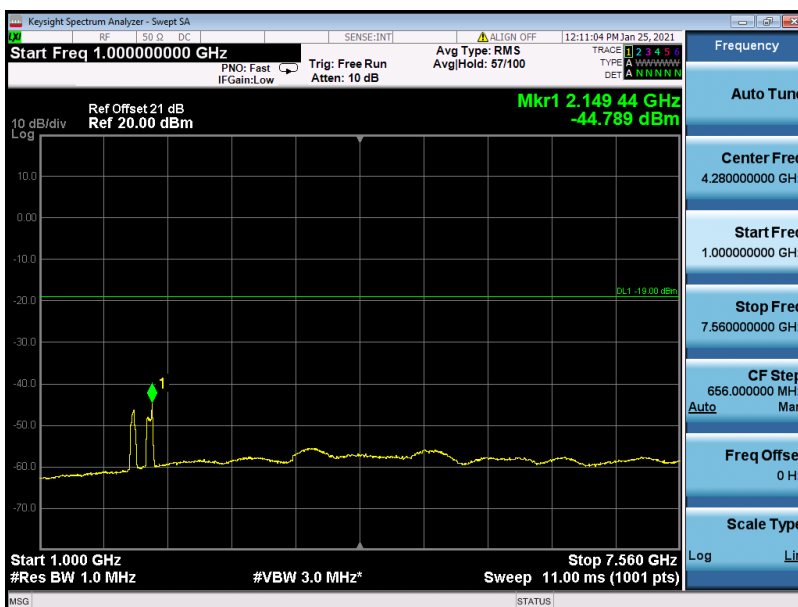
SGS-CSTC Standards Technical Services Co., Ltd. No. 198 Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
Guangzhou Branch Testing Center, EEC Laboratory, 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



### 700MHz (Lower 700MHz + Upper 700MHz) Band



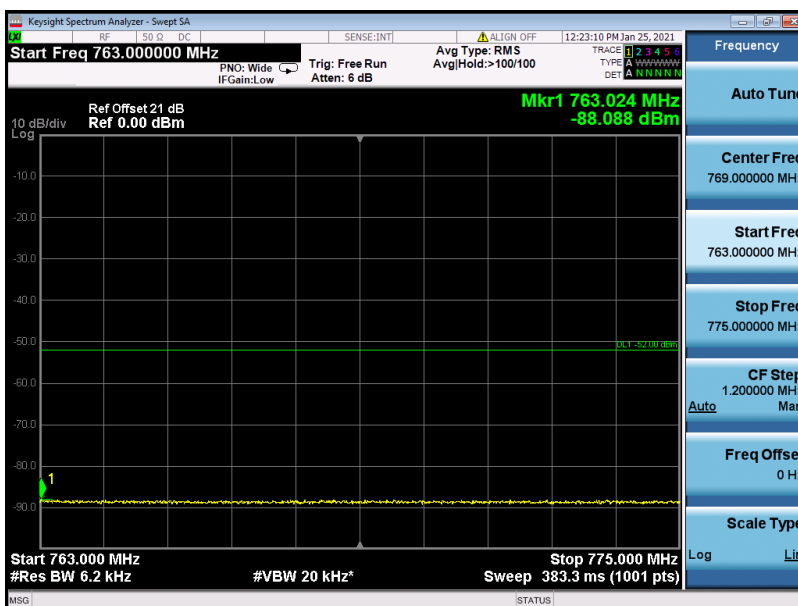
### 700MHz (Lower 700MHz + Upper 700MHz) Band



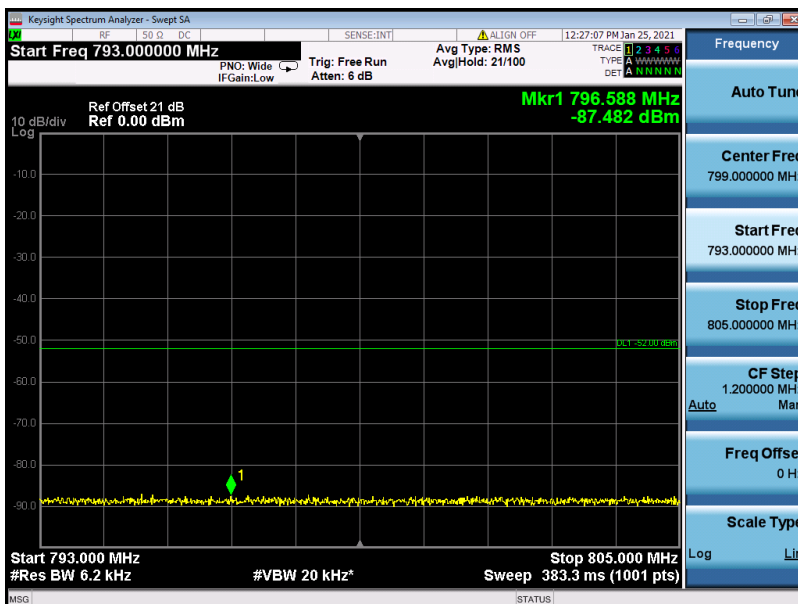
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### Upper 700MHz Band



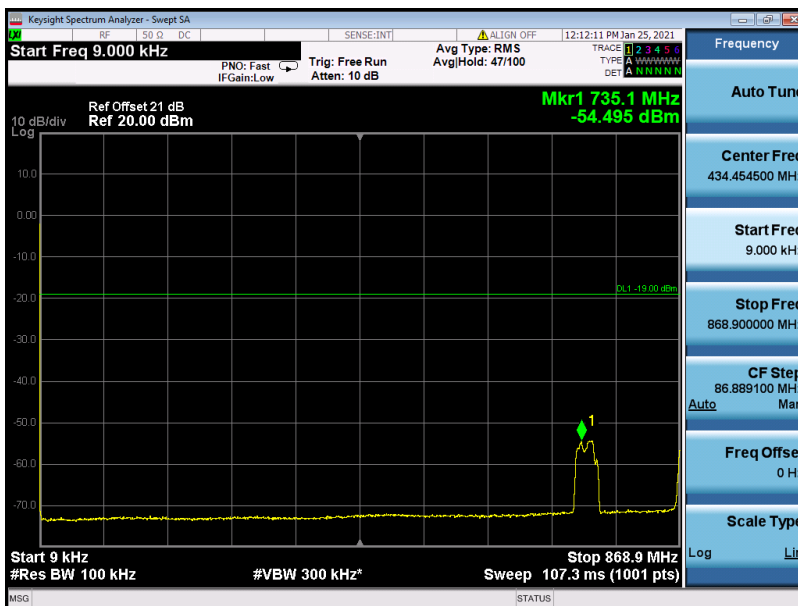
### Upper 700MHz Band



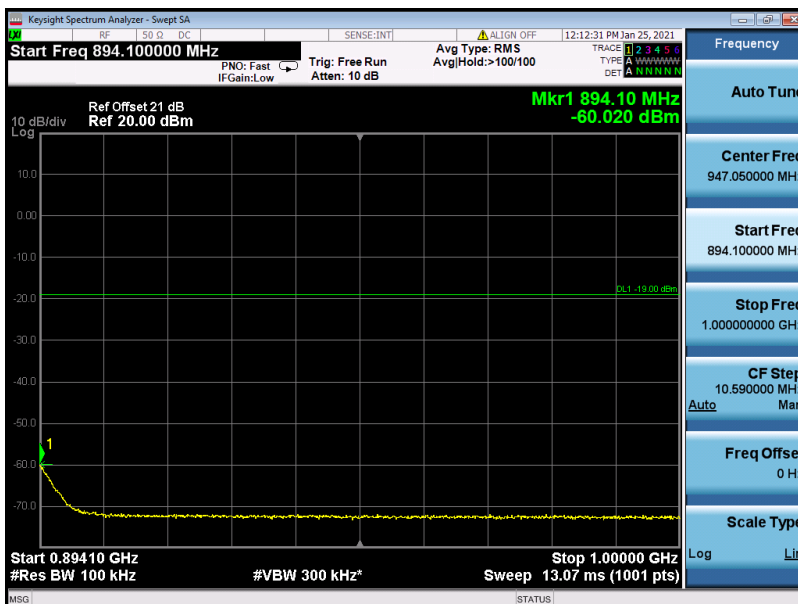
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### Cellular Band



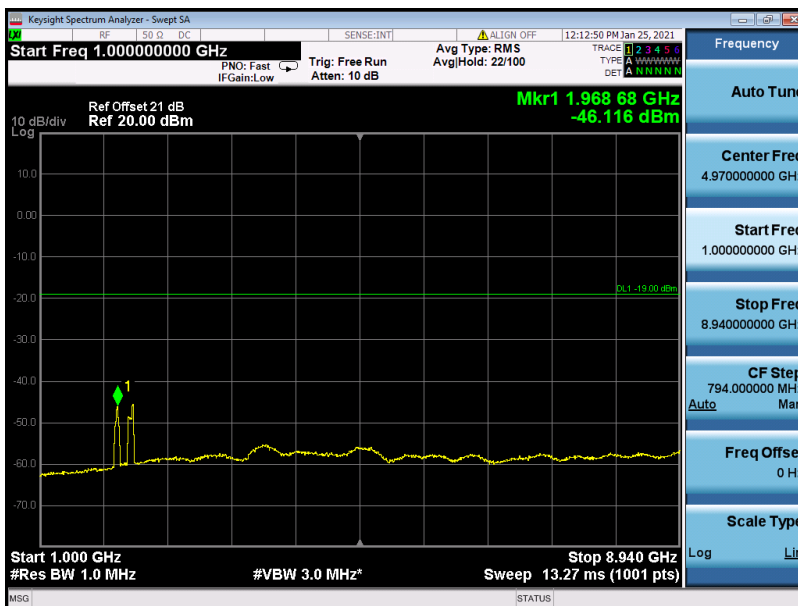
### Cellular Band



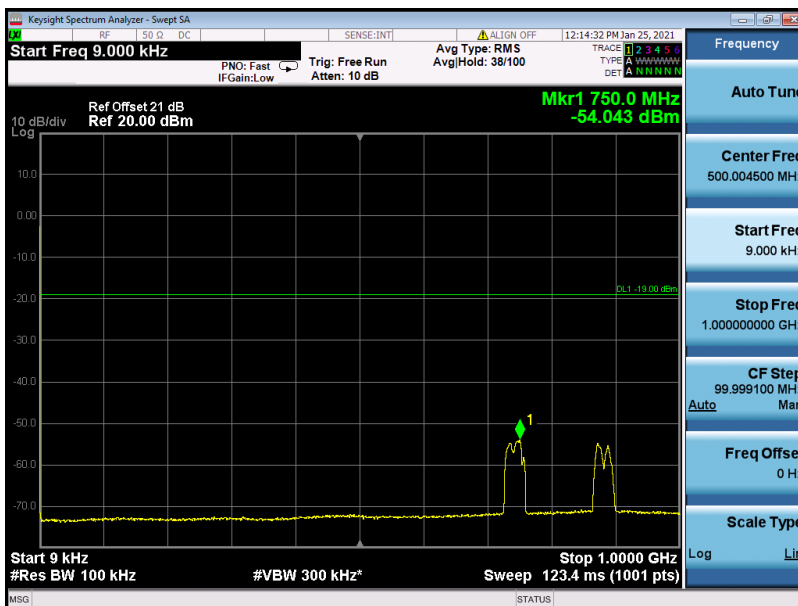
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### Cellular Band

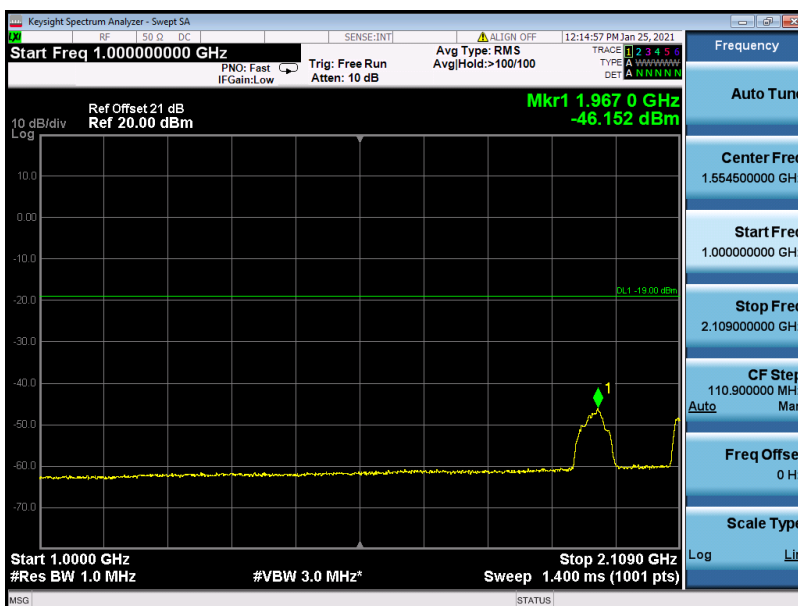


### AWS-1 Band

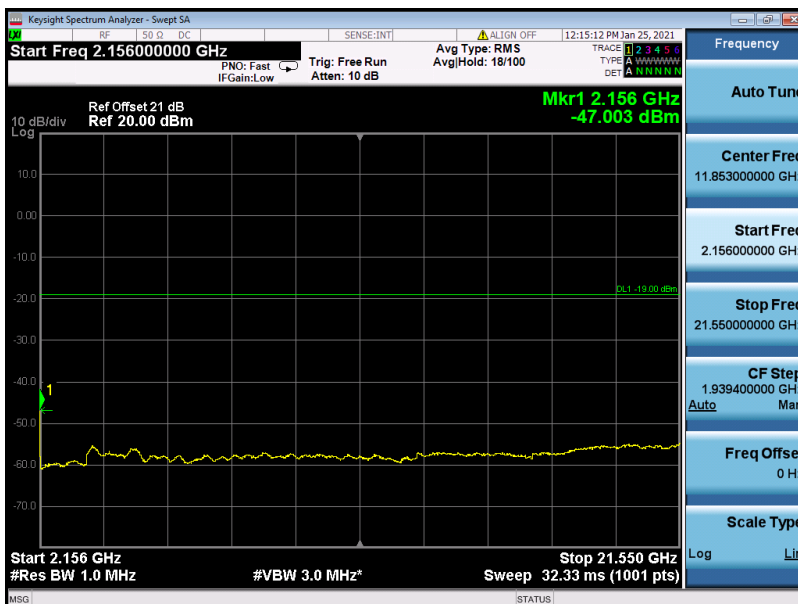




### AWS-1 Band



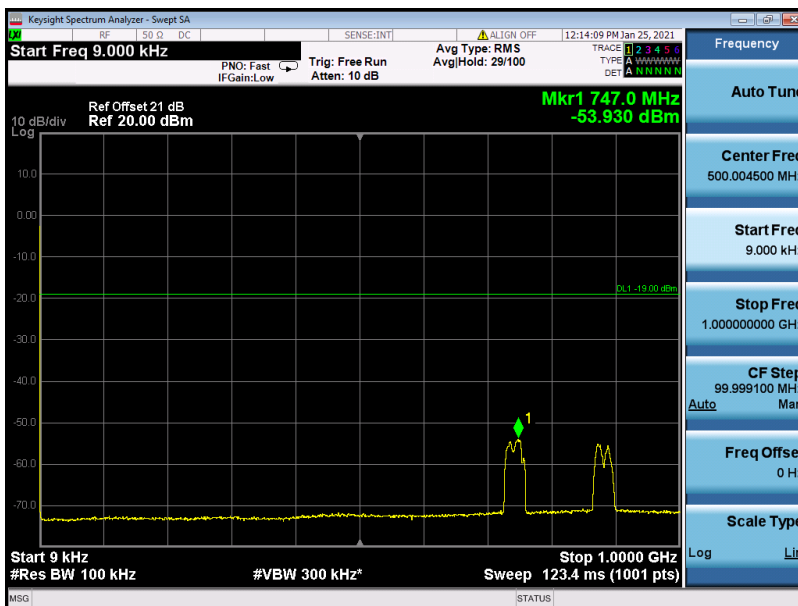
### AWS-1 Band



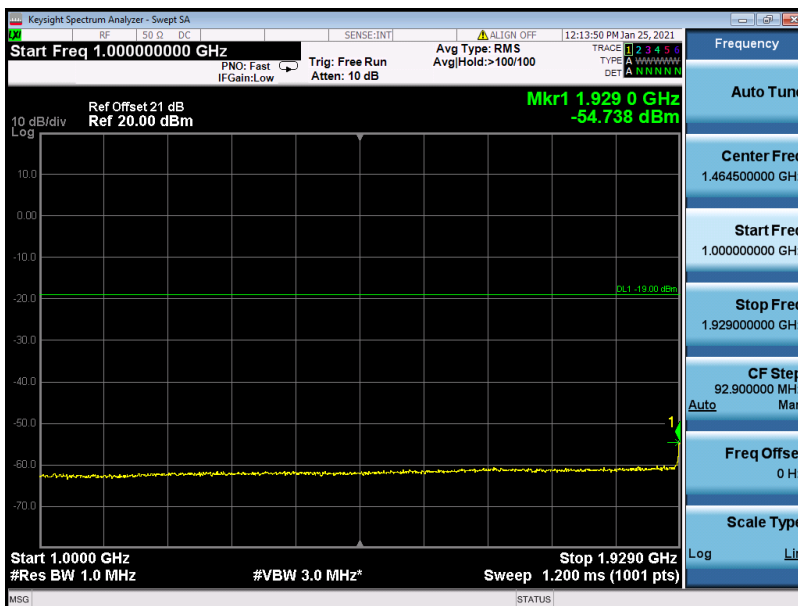
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### Broadband PCS Band



### Broadband PCS Band



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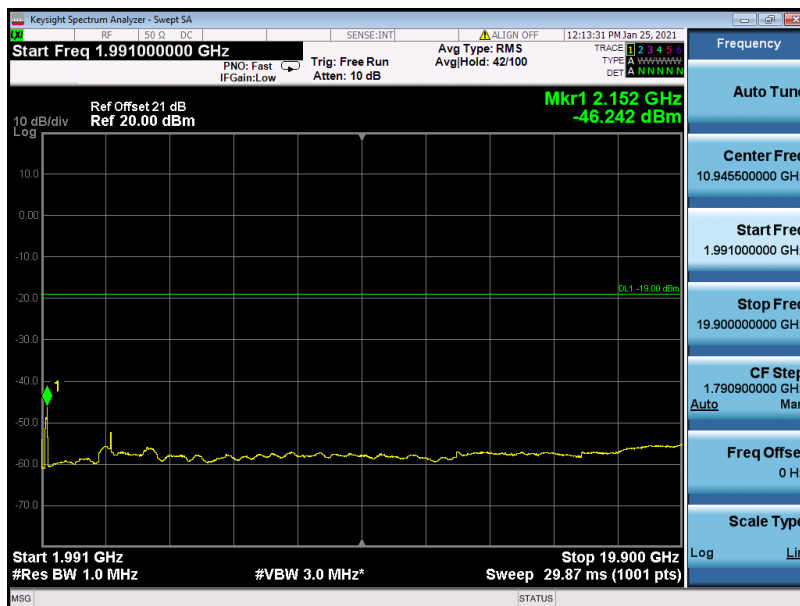
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Application No.: GZEM2101000418CR

Page: 95 of 191

FCC ID: 2AYTR-SZZJ1

## Broadband PCS Band



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Guangzhou Branch Testing Center EEC Laboratory

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## 7 Noise limit

Note:

### 1. 20.21(e)(8)(i)(A) Noise Limit

(1) The transmitted noise power in dBm/MHz of consumer boosters at their uplink port shall not exceed  $-103 \text{ dBm/MHz} - \text{RSSI}$ .

RSSI (received signal strength indication expressed in negative dB units relative to 1 mW) is the downlink composite received signal power in dBm at the booster donor port for all base stations in the band of operation.

(2) The transmitted maximum noise power in dBm/MHz of consumer boosters at their uplink and downlink ports shall not exceed  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(\text{Frequency})$ , where Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz.

So,

for Lower 700MHz, limit =  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(707) = -45.51 \text{ dBm/MHz}$

for Upper 700MHz, limit =  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(782) = -44.64 \text{ dBm/MHz}$

for Cellular, limit =  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(836.5) = -44.05 \text{ dBm/MHz}$

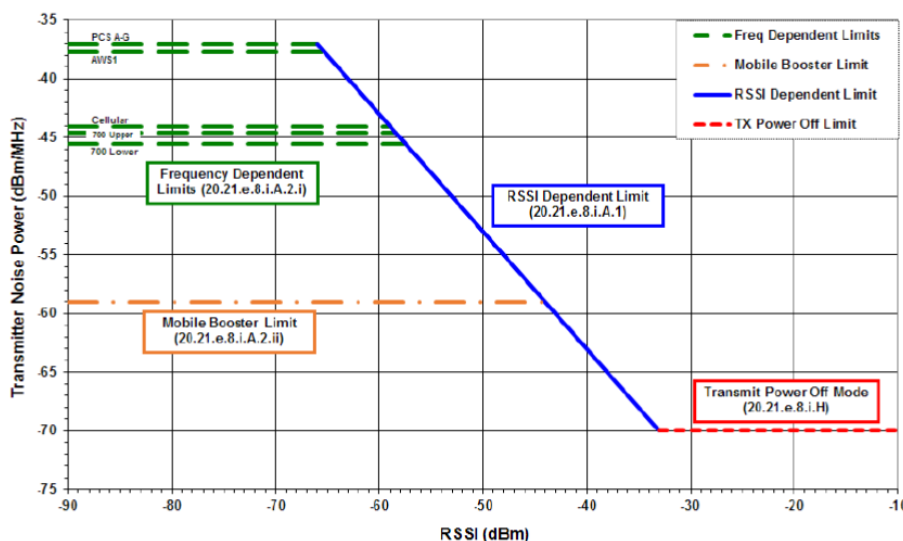
for AWS-1, limit =  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(1732.5) = -37.02 \text{ dBm/MHz}$

for Broadband PCS, limit =  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(1880) = -37.73 \text{ dBm/MHz}$

### 20.21(e)(8)(i)(H) Transmit Power Off Mode

When the consumer booster cannot otherwise meet the noise and gain limits defined herein it must operate in "Transmit Power Off Mode." In this mode of operation, the uplink and downlink noise power shall not exceed  $-70 \text{ dBm/MHz}$ .

2. According to KDB 935210 D03 v04r04 appendix D, the variable noise limit is  $-103 \text{ dBm/MHz} - \text{RSSI}$  inside the RSSI-dependent region, and  $-102.5 \text{ dBm/MHz} + 20 \text{ Log}_{10}(\text{Frequency})$  outside the RSSI-dependent region ( $-70 \text{ dBm}$  when operating power off mode).



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So,

for Lower 700MHz, the RSSI-dependent region is -57.49 dBm to -33 dBm

for Upper 700MHz, the RSSI-dependent region is -58.36 dBm to -33 dBm

for Cellular, the RSSI-dependent region is -58.95 dBm to -33 dBm

for AWS-1, the RSSI-dependent region is -65.27 dBm to -33 dBm

for Broadband PCS, the RSSI-dependent region is -65.99 dBm to -33 dBm

3. EUT amplifies Lower 700MHz downlink (728-746MHz) and upper 700MHz downlink (746-756MHz) together, so combined frequency was measured for noise limit in this report, the center frequency is 742MHz.



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| Maximum transmitter Noise Power Level |               |           |                       |                 |         |
|---------------------------------------|---------------|-----------|-----------------------|-----------------|---------|
| Path                                  | Band          | Mode      | Noise Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| UPLINK                                | Lower 700MHz  | Power On  | -47.38                | ≤-45.51         | PASS    |
|                                       |               | Power Off | -82.20                | ≤-70            | PASS    |
|                                       | Upper 700MHz  | Power On  | -46.26                | ≤-44.64         | PASS    |
|                                       |               | Power Off | -82.23                | ≤-70            | PASS    |
|                                       | Cellular      | Power On  | -46.18                | ≤-44.05         | PASS    |
|                                       |               | Power Off | -82.28                | ≤-70            | PASS    |
|                                       | AWS-1         | Power On  | -46.23                | ≤-37.73         | PASS    |
|                                       |               | Power Off | -81.54                | ≤-70            | PASS    |
|                                       | Broadband PCS | Power On  | -46.67                | ≤-37.02         | PASS    |
|                                       |               | Power Off | -80.72                | ≤-70            | PASS    |
| DOWNLINK                              | 700MHz        | Power On  | -46.71                | ≤-45.51         | PASS    |
|                                       |               | Power Off | -82.19                | ≤-70            | PASS    |
|                                       | Cellular      | Power On  | -45.62                | ≤-44.05         | PASS    |
|                                       |               | Power Off | -82.38                | ≤-70            | PASS    |
|                                       | AWS-1         | Power On  | -46.23                | ≤-37.73         | PASS    |
|                                       |               | Power Off | -80.23                | ≤-70            | PASS    |
|                                       | Broadband PCS | Power On  | -45.82                | ≤-37.02         | PASS    |
|                                       |               | Power Off | -80.41                | ≤-70            | PASS    |



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**Guangzhou Branch**

Application No.: GZEM2101000418CR

Page: 99 of 191

FCC ID: 2AYTR-SZZJ1

| Variable Uplink Noise Power Level |              |            |                       |                 |         |
|-----------------------------------|--------------|------------|-----------------------|-----------------|---------|
| Path                              | Band         | RSSI (dBm) | Noise Level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| UPLINK                            | Lower 700MHz | -90        | -47.41                | ≤-45.51         | PASS    |
|                                   |              | -80        | -47.67                | ≤-45.51         | PASS    |
|                                   |              | -70        | -48.32                | ≤-45.51         | PASS    |
|                                   |              | -60        | -48.74                | ≤-45.51         | PASS    |
|                                   |              | -55        | -49.32                | ≤-48.00         | PASS    |
|                                   |              | -42        | -63.21                | ≤-61.00         | PASS    |
|                                   | Upper 700MHz | -90        | -46.43                | ≤-44.64         | PASS    |
|                                   |              | -80        | -46.67                | ≤-44.64         | PASS    |
|                                   |              | -70        | -45.89                | ≤-44.64         | PASS    |
|                                   |              | -60        | -46.22                | ≤-44.64         | PASS    |
|                                   |              | -51        | -56.74                | ≤-52.00         | PASS    |
|                                   |              | -46        | -61.20                | ≤-57.00         | PASS    |
|                                   | Cellular     | -90        | -46.32                | ≤-44.05         | PASS    |
|                                   |              | -80        | -46.11                | ≤-44.05         | PASS    |
|                                   |              | -70        | -47.32                | ≤-44.05         | PASS    |
|                                   |              | -60        | -46.43                | ≤-44.05         | PASS    |
|                                   |              | -55        | -51.04                | ≤-48.00         | PASS    |
|                                   |              | -46        | -59.76                | ≤-57.00         | PASS    |
|                                   | AWS-1        | -80        | -46.76                | ≤-37.73         | PASS    |
|                                   |              | -70        | -46.28                | ≤-37.73         | PASS    |
|                                   |              | -62        | -49.32                | ≤-41.00         | PASS    |
|                                   |              | -60        | -48.45                | ≤-43.00         | PASS    |
|                                   |              | -41        | -64.27                | ≤-62.00         | PASS    |
|                                   |              | -38        | -68.43                | ≤-65.00         | PASS    |



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Application No.: GZEM2101000418CR

Page: 100 of 191

FCC ID: 2AYTR-SZZJ1

|        |                  |     |        |               |      |
|--------|------------------|-----|--------|---------------|------|
| UPLINK | Broadband<br>PCS | -90 | -46.76 | $\leq -37.02$ | PASS |
|        |                  | -80 | -46.31 | $\leq -37.02$ | PASS |
|        |                  | -70 | -47.32 | $\leq -37.02$ | PASS |
|        |                  | -64 | -49.54 | $\leq -39.00$ | PASS |
|        |                  | -57 | -52.32 | $\leq -46.00$ | PASS |
|        |                  | -42 | -62.78 | $\leq -61.00$ | PASS |



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Application No.: GZEM2101000418CR

Page: 101 of 191

FCC ID: 2AYTR-SZZJ1

| Variable Uplink Noise Timing |               |          |           |         |
|------------------------------|---------------|----------|-----------|---------|
| Path                         | Band          | Time (s) | Limit (s) | Verdict |
| UPLINK                       | Lower 700MHz  | 0.27     | ≤3        | PASS    |
|                              | Upper 700MHz  | 0.26     | ≤3        | PASS    |
|                              | Cellular      | 0.52     | ≤3        | PASS    |
|                              | AWS-1         | 0.65     | ≤3        | PASS    |
|                              | Broadband PCS | 0.65     | ≤3        | PASS    |



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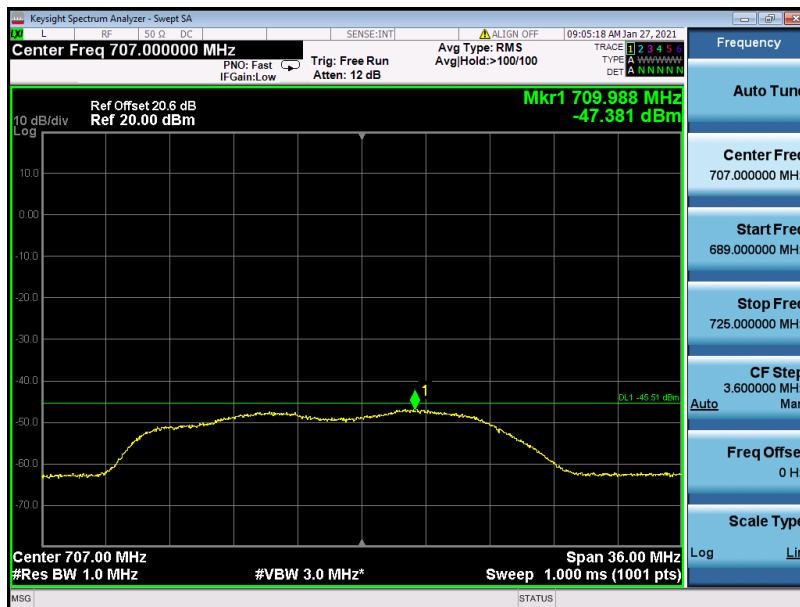
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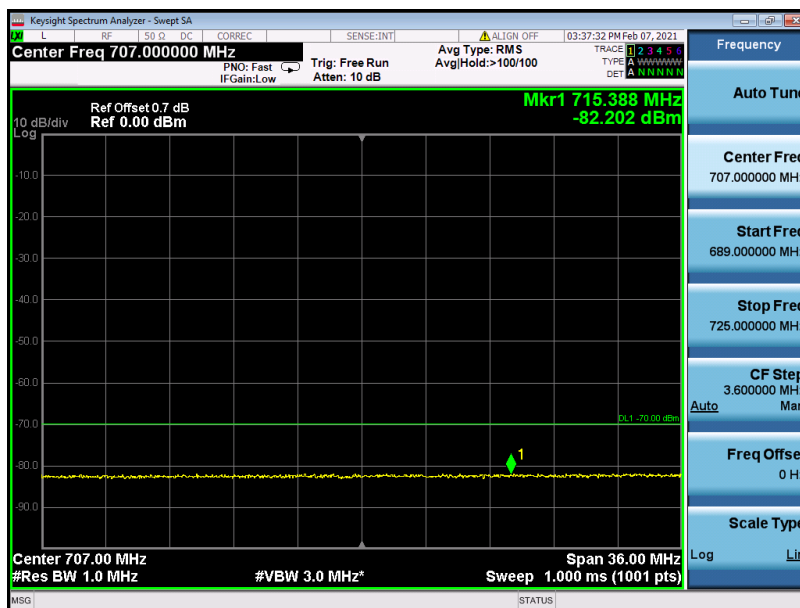
### Maximum Transmitter Noise Power Level

#### UPLINK

#### Lower 700MHz Band



#### Transmit Power On Mode ↑



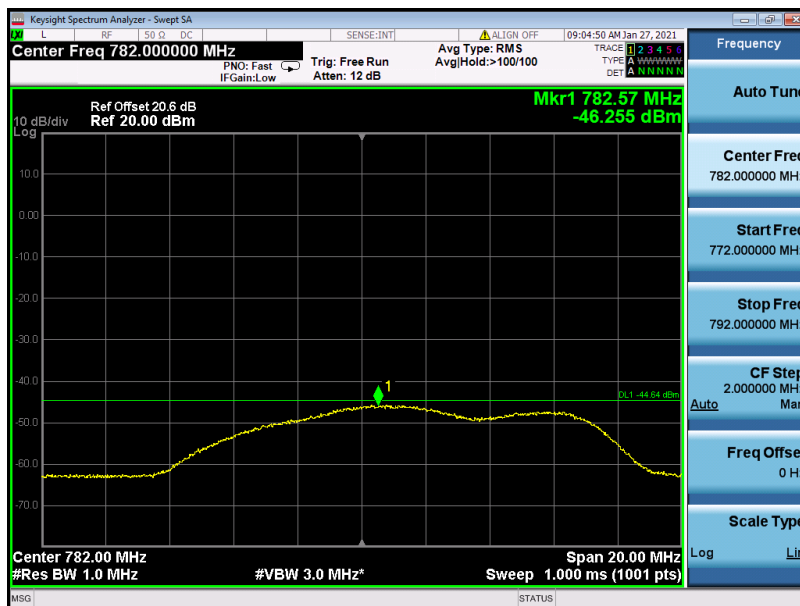
#### Transmit Power Off Mode ↑



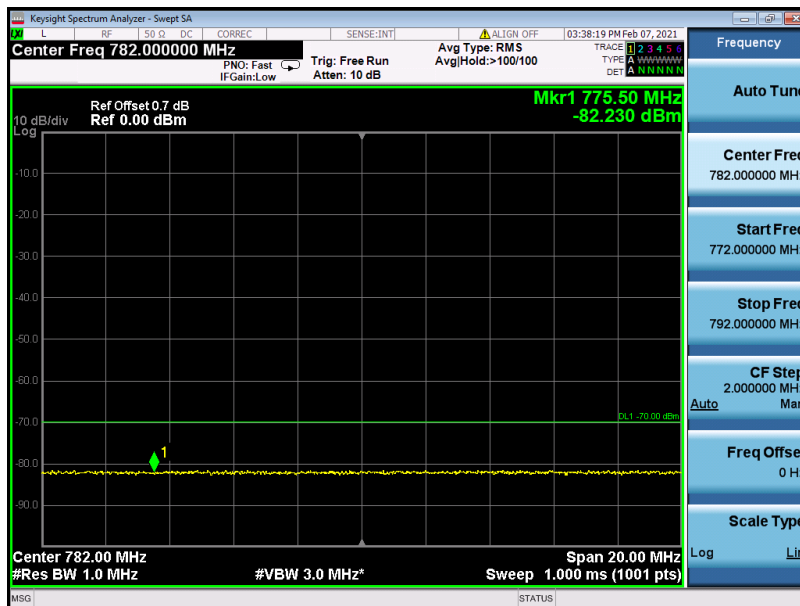
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### Upper 700MHz Band



### Transmit Power On Mode ↑



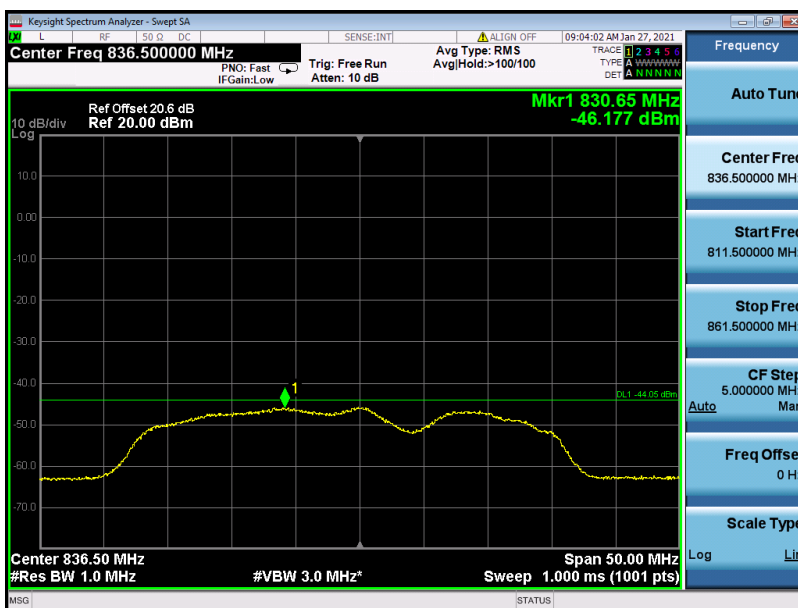
### Transmit Power Off Mode ↑



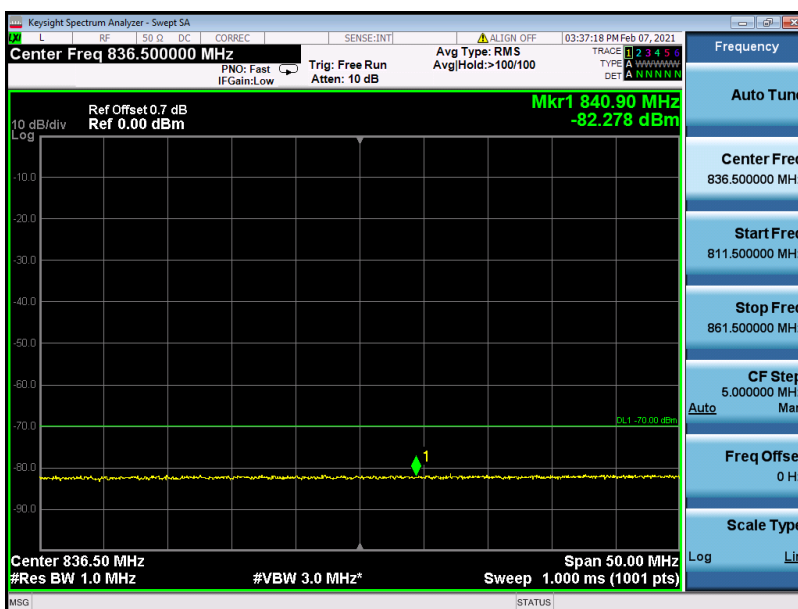
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### Cellular Band



### Transmit Power On Mode ↑



### Transmit Power Off Mode ↑

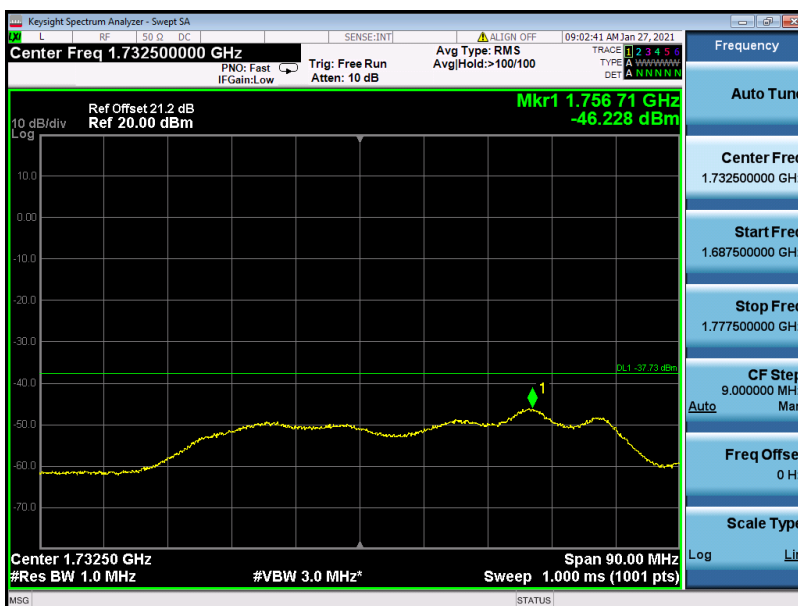


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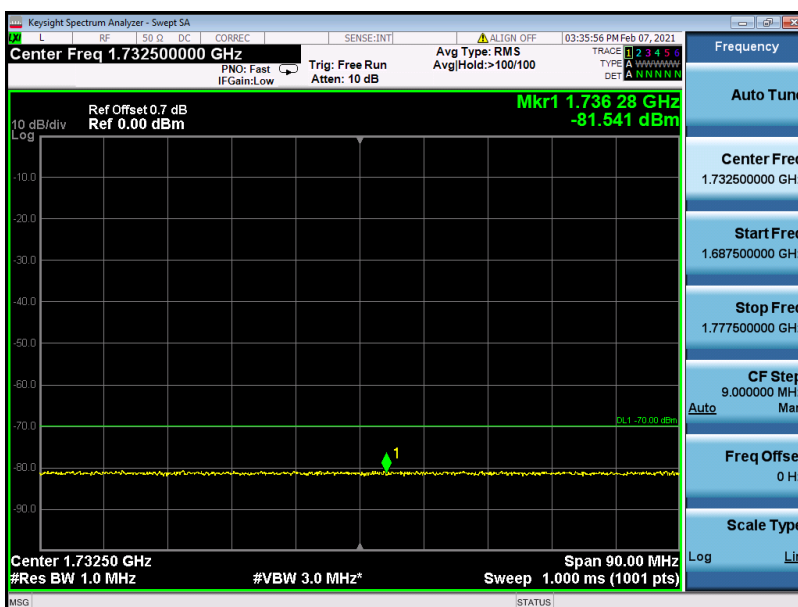
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### AWS-1 Band



### Transmit Power On Mode ↑



### Transmit Power Off Mode ↑

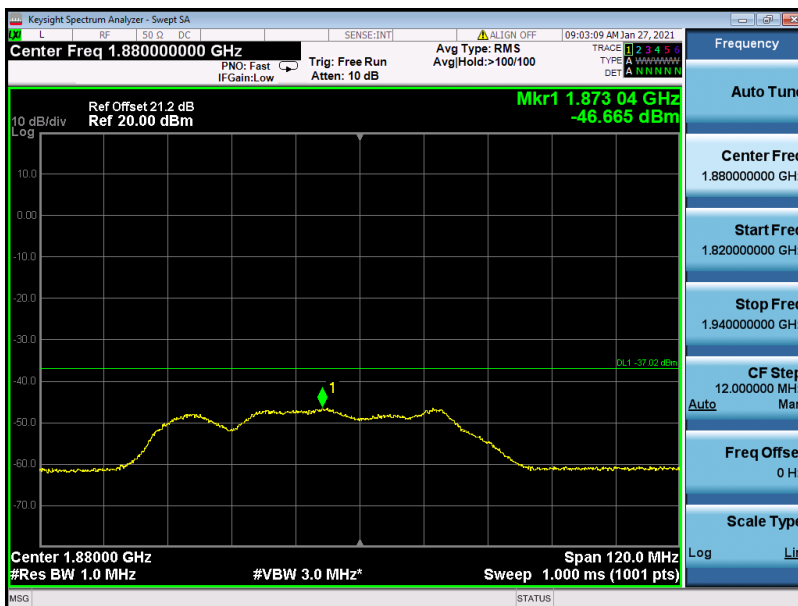


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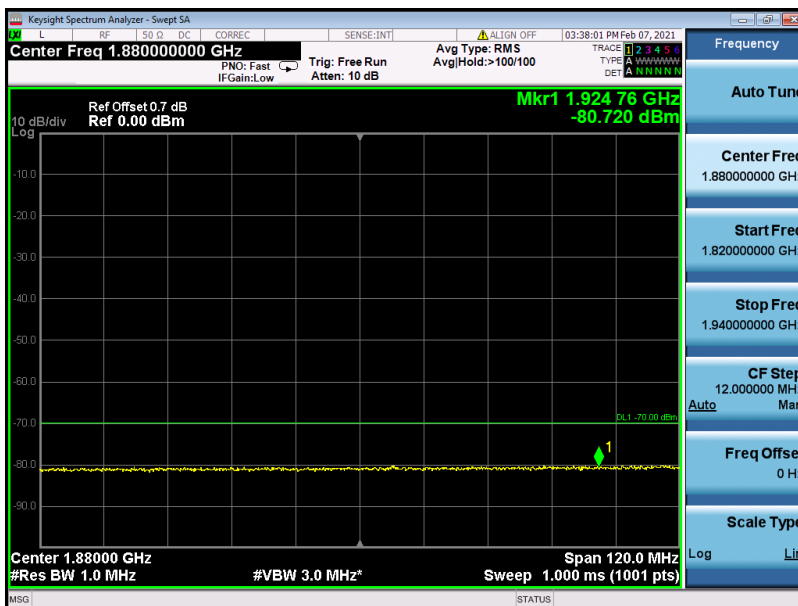
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### Broadband PCS Band



### Transmit Power On Mode ↑



### Transmit Power Off Mode ↑

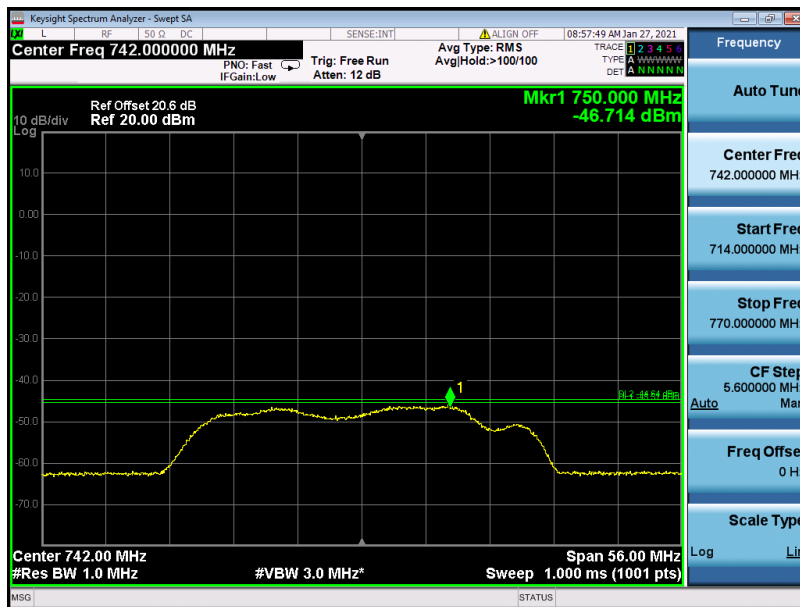


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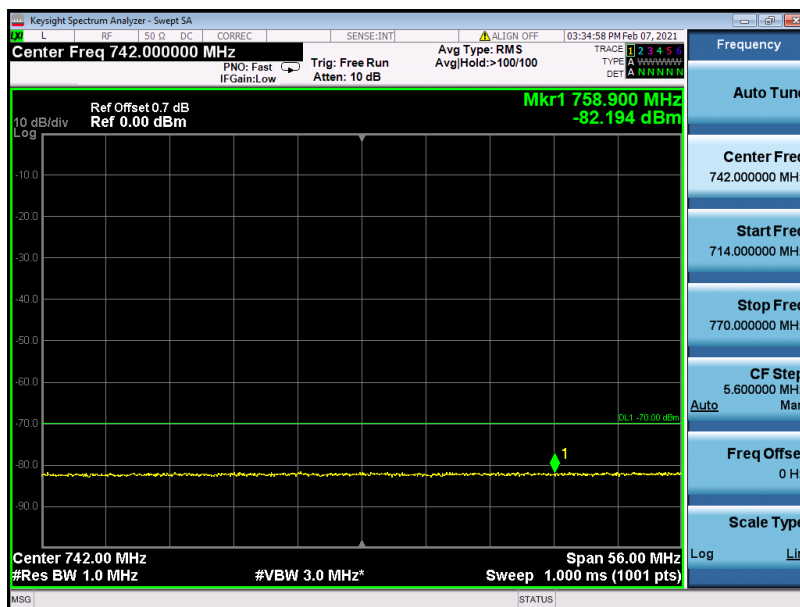
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### DOWNLINK

#### 700MHz (Lower 700MHz + Upper 700MHz) Band



#### Transmit Power On Mode ↑



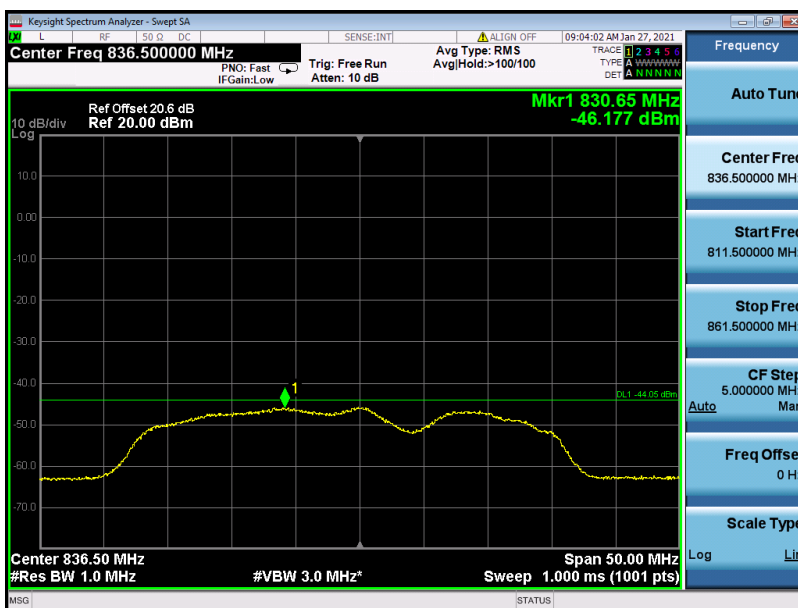
#### Transmit Power Off Mode ↑



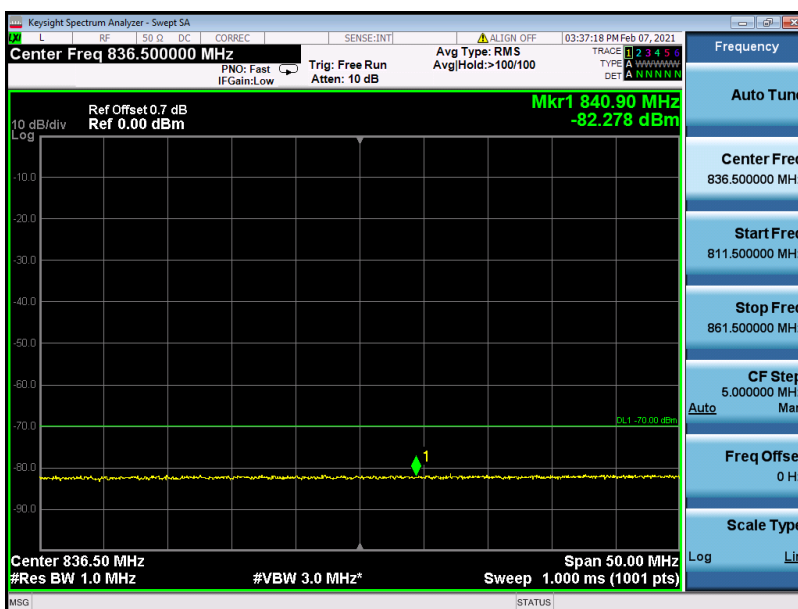
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### Cellular Band



### Transmit Power On Mode ↑



### Transmit Power Off Mode ↑

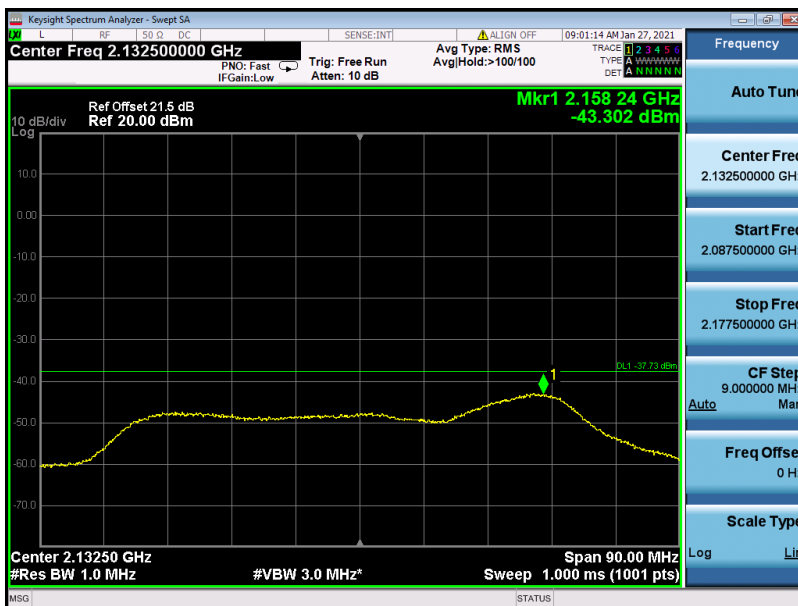


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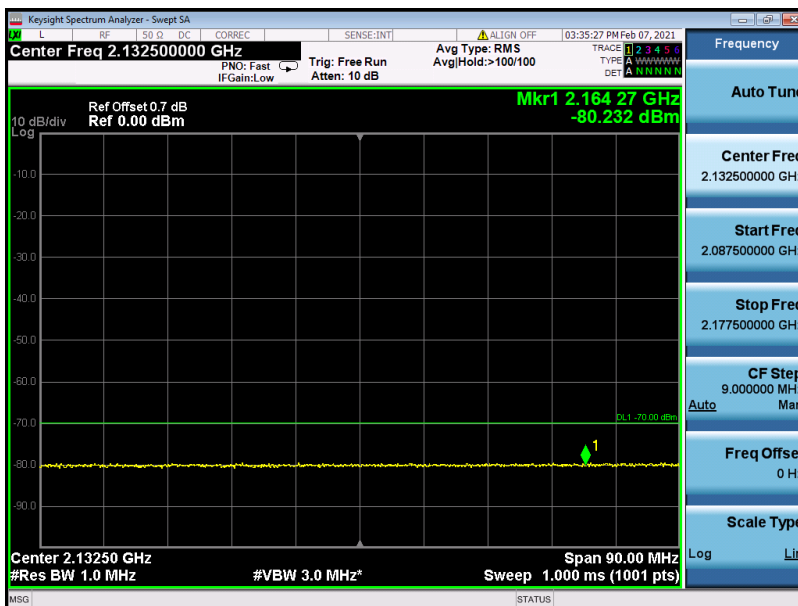
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## AWS-1 Band



## Transmit Power On Mode ↑



## Transmit Power Off Mode ↑

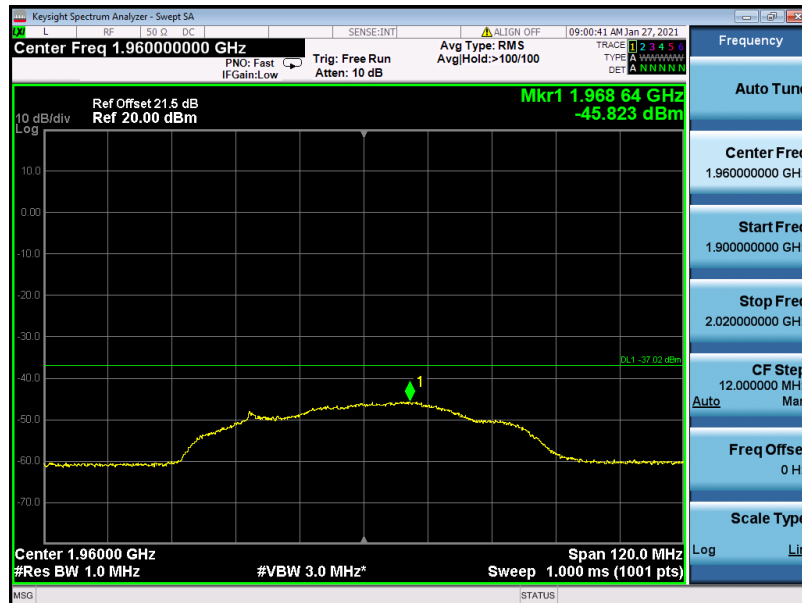


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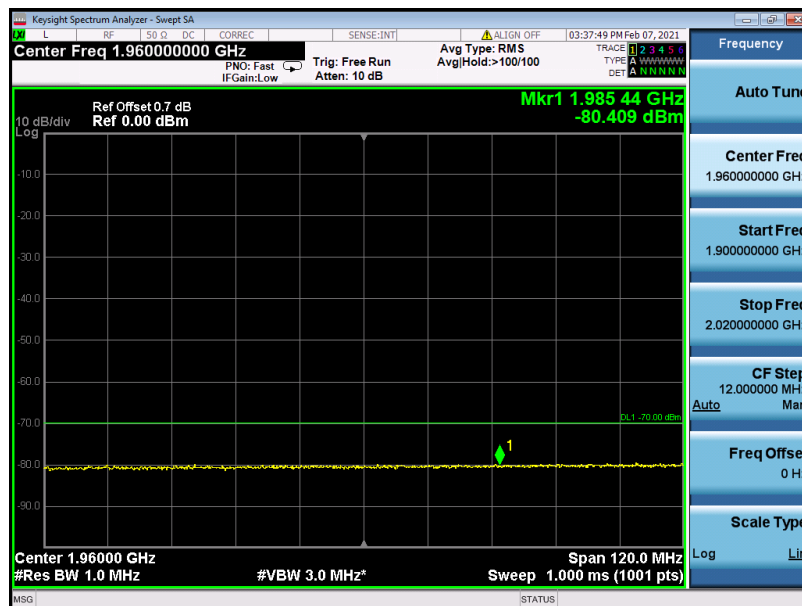
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### Broadband PCS Band



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