



**SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch**

EMC-ARF-05 Rev 1.1

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FCC ID: OJFDHRU-G2-35

# Appendix -

## Test Data and Result for report

### GZCR240300025403



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Guangzhou Branch Testing Center EMC Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
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### 2 Input versus Output comparison

| Occupied Bandwidth                                                                                                                                                                                                                            |                |              |               |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|---------------|---------|
| Test Path                                                                                                                                                                                                                                     | Test Signal    | Test Channel | Signal Level  | Verdict |
| DL                                                                                                                                                                                                                                            | 4.1MHz<br>AWGN | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                                               |                |              | 3dB above AGC | PASS    |
|                                                                                                                                                                                                                                               | 100MHz<br>AWGN | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                                               |                |              | 3dB above AGC | PASS    |
|                                                                                                                                                                                                                                               | GSM            | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                                               |                |              | 3dB above AGC | PASS    |
| Remark:<br>Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement. |                |              |               |         |



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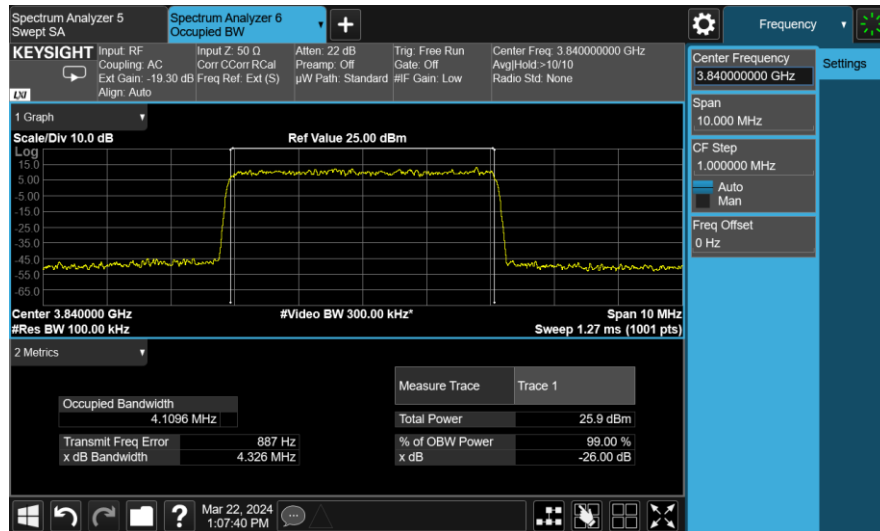
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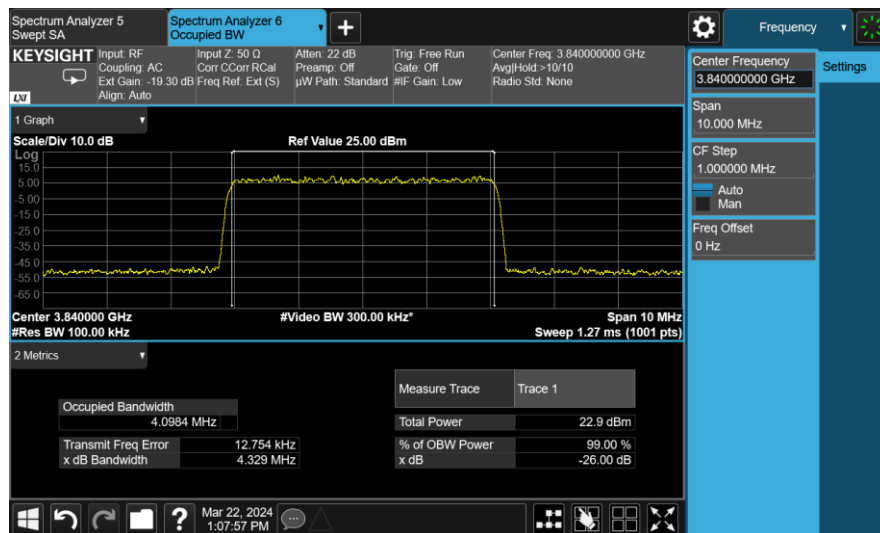
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#### DL\_4.1MHz AWGN\_MCH\_Input\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Input\_3dB above AGC



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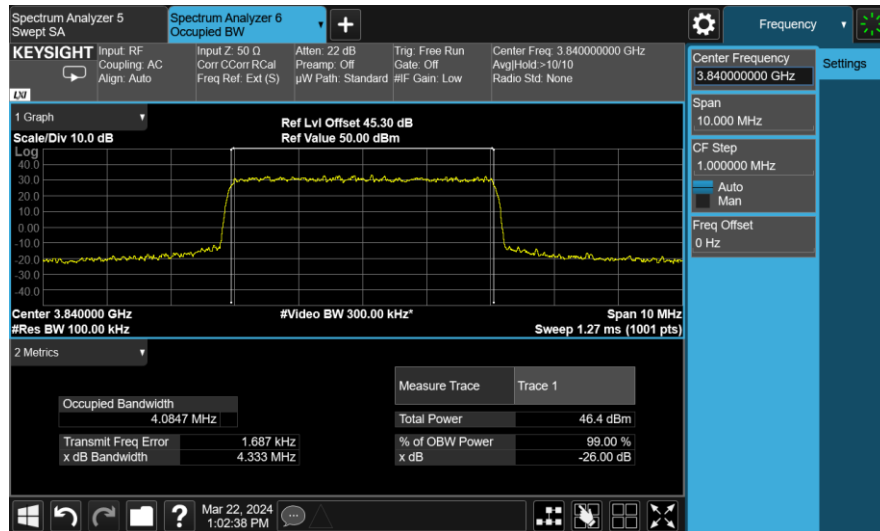
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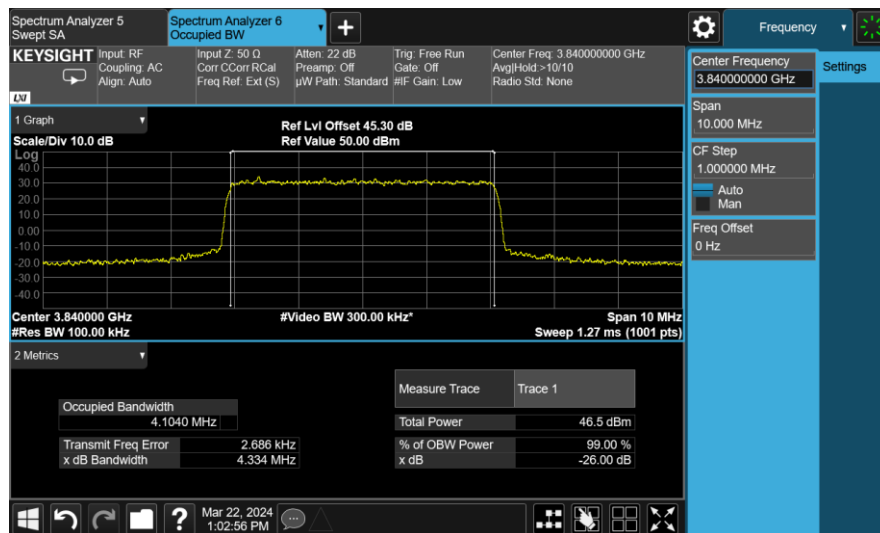
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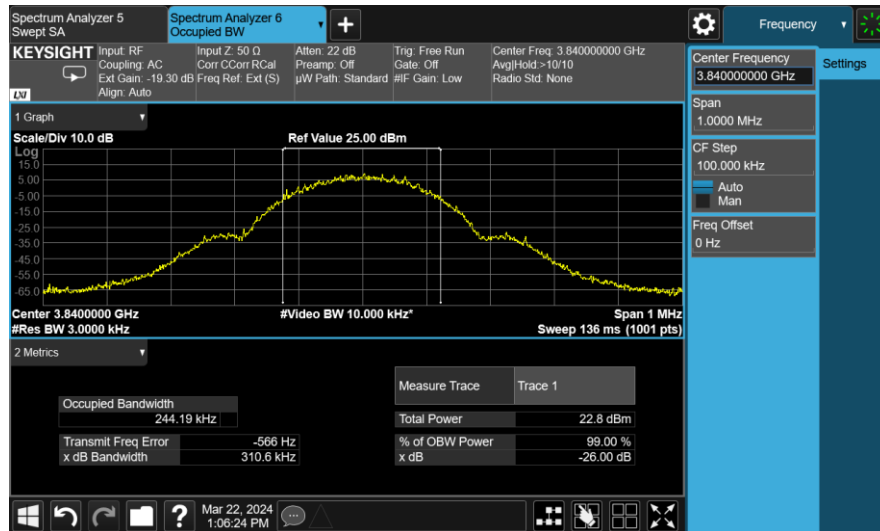
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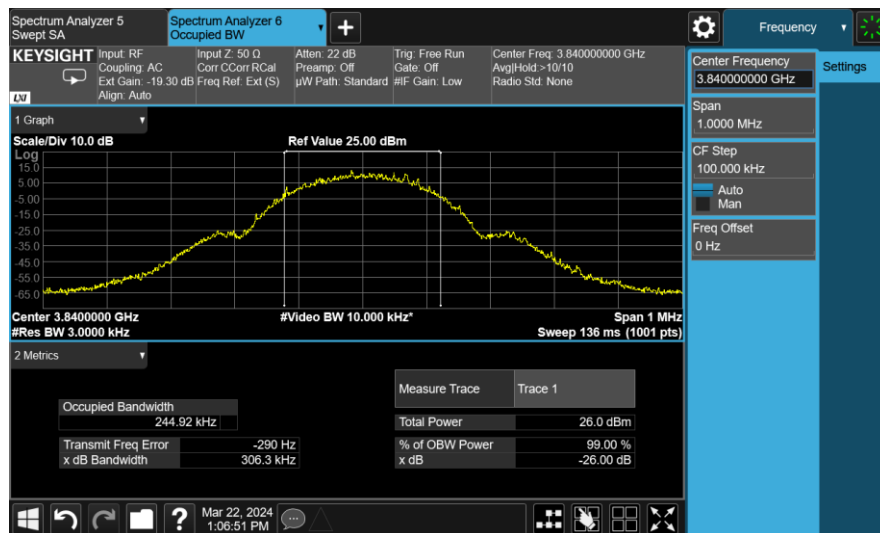
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#### DL\_GSM\_MCH\_Input\_Pre-AGC



#### DL\_GSM\_MCH\_Input\_3dB above AGC



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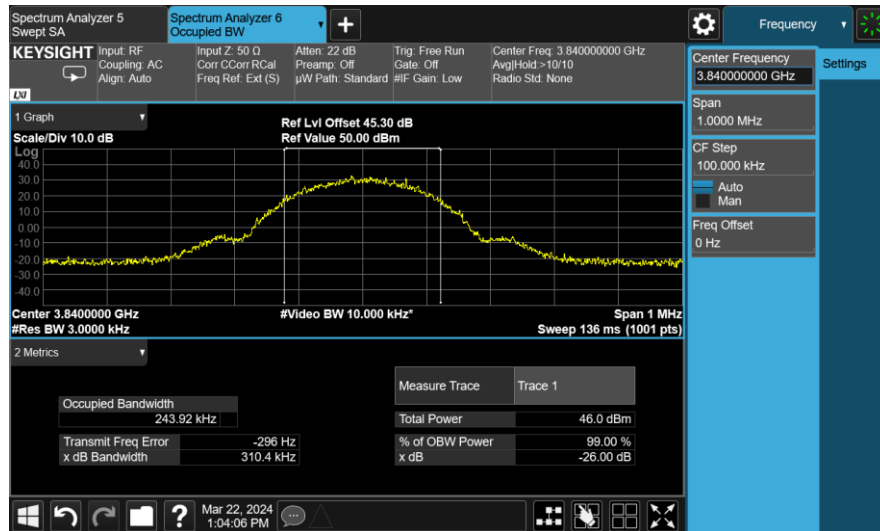
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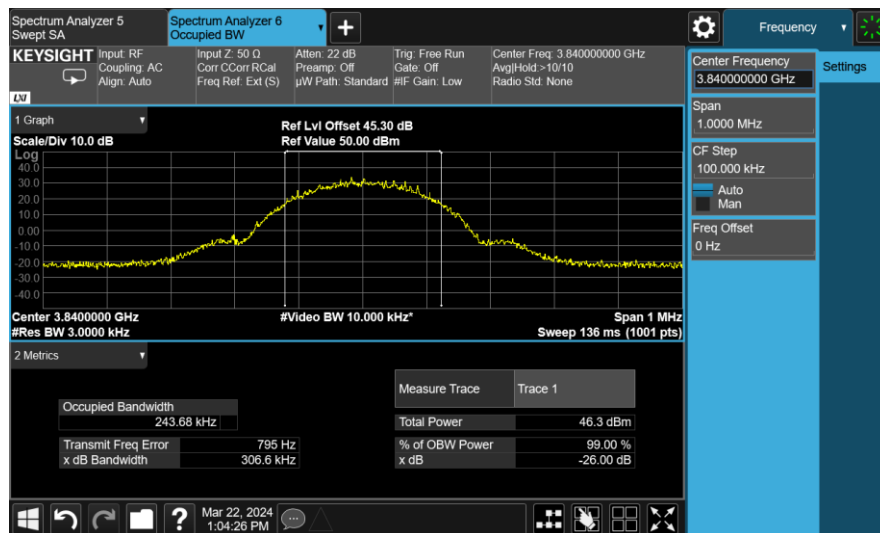
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### DL\_GSM\_MCH\_Output\_Pre-AGC



### DL\_GSM\_MCH\_Output\_3dB above AGC



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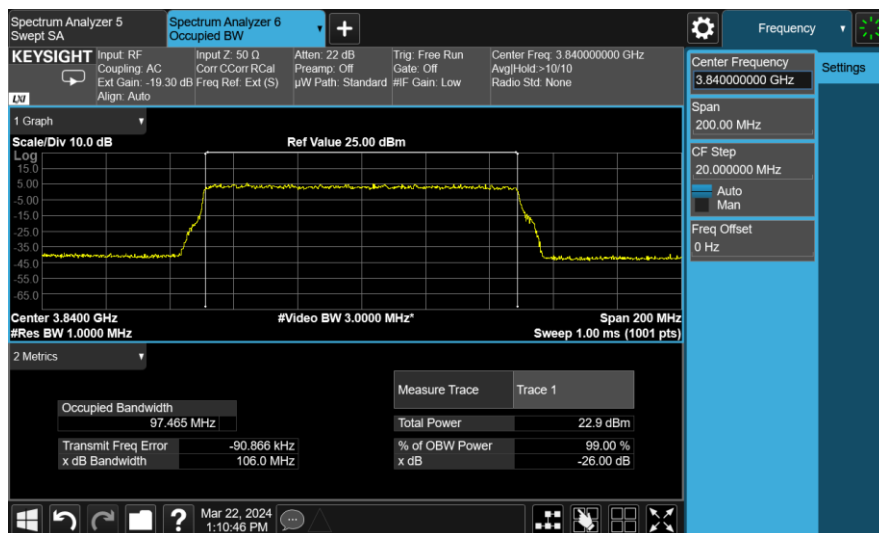
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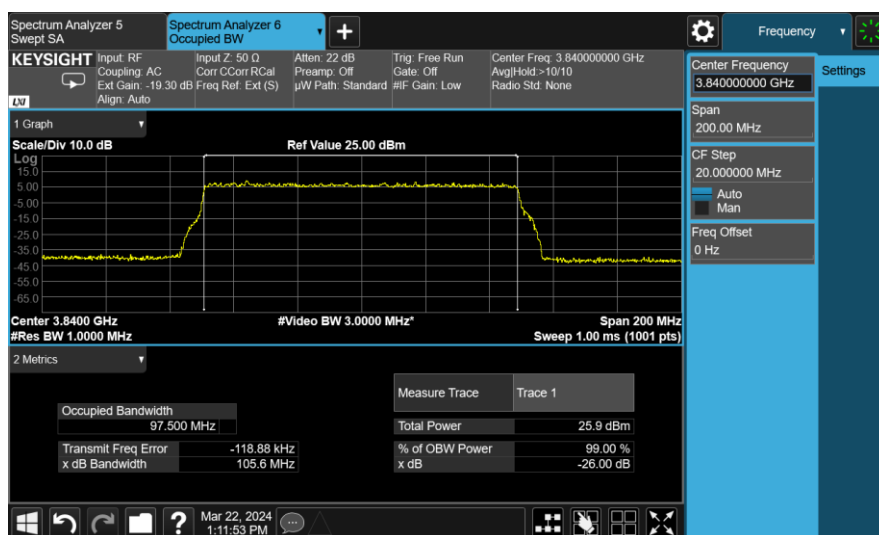
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#### DL\_100MHz AWGN\_MCH\_Input\_3dB above AGC

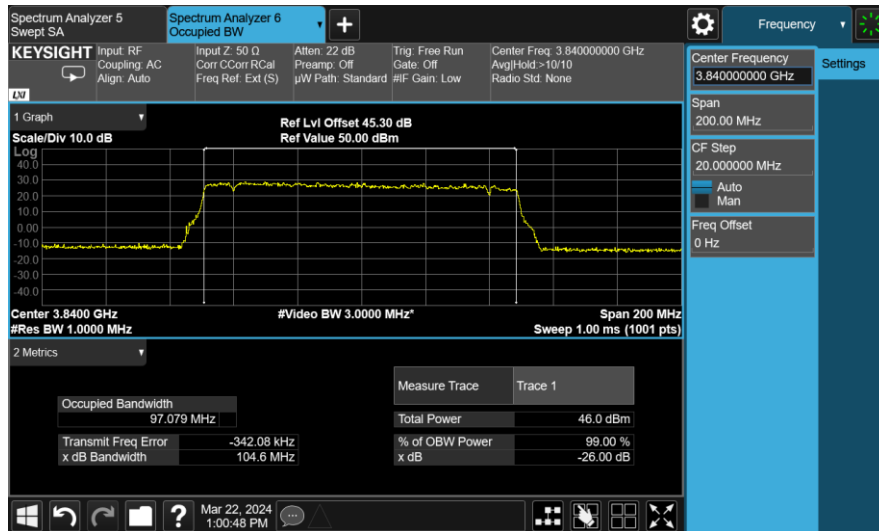


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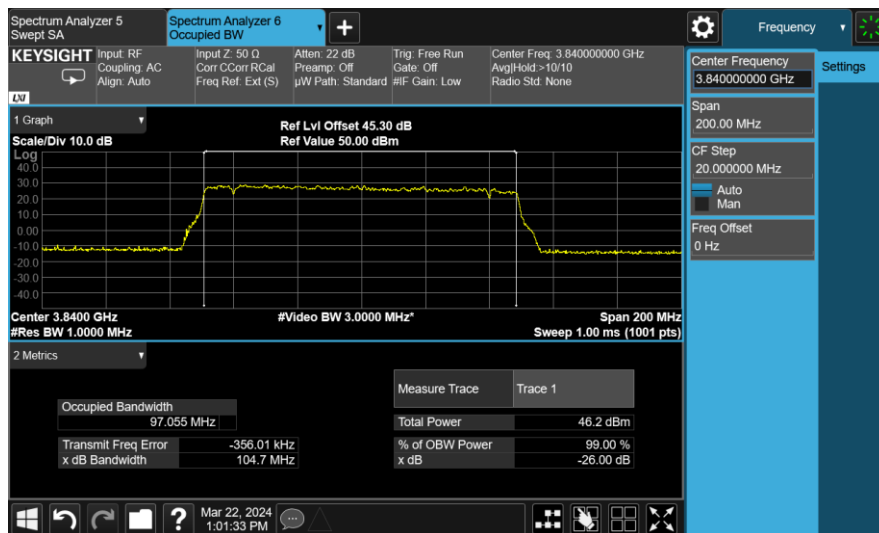
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#### DL\_100MHz AWGN\_MCH\_Output\_Pre-AGC



#### DL\_100MHz AWGN\_MCH\_Output\_3dB above AGC



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### 3 Output power and amplifier/booster gain

| Mean output power and gain                                                                                                                                                                                                                                     |                     |             |               |                   |                    |               |                |           |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|---------------|-------------------|--------------------|---------------|----------------|-----------|---------|
| Test Path                                                                                                                                                                                                                                                      | Test Freq. f0 (MHz) | Test Signal | Signal Level  | Input power (dBm) | Output Power (dBm) | SISO EIRP (W) | Total EIRP (W) | Gain (dB) | Verdict |
| DL                                                                                                                                                                                                                                                             | 3704.0              | 4.1MHz AWGN | Pre-AGC       | 23.00             | 45.64              | 115.88        | 463.45         | 22.64     | PASS    |
|                                                                                                                                                                                                                                                                |                     |             | 3dB above AGC | 26.00             | 45.81              | 120.51        | 481.95         | /         | PASS    |
|                                                                                                                                                                                                                                                                |                     | 100MHz AWGN | Pre-AGC       | 23.00             | 45.88              | 122.47        | 489.78         | 22.88     | PASS    |
|                                                                                                                                                                                                                                                                |                     |             | 3dB above AGC | 26.00             | 46.05              | 127.36        | 509.34         | /         | PASS    |
|                                                                                                                                                                                                                                                                |                     | GSM         | Pre-AGC       | 23.00             | 45.89              | 122.75        | 490.91         | 23.49     | PASS    |
|                                                                                                                                                                                                                                                                |                     |             | 3dB above AGC | 26.00             | 46.05              | 127.36        | 509.34         | /         | PASS    |
| Remark:<br>1. f0 is from Out-of-band Rejection test in the report.<br>2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer, the directional gain = G <sub>ANT</sub> + 10 log (N <sub>ANT</sub> ) dBi = 8dBi. |                     |             |               |                   |                    |               |                |           |         |

| Mean output power                                                                                                                                                                                                                                                                                                         |                     |             |               |                        |                   |                    |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|---------------|------------------------|-------------------|--------------------|---------|
| Test Path                                                                                                                                                                                                                                                                                                                 | Test Freq. f0 (MHz) | Test Signal | Signal Level  | Output Power (dBm/MHz) | SISO EIRP (W/MHz) | Total EIRP (W/MHz) | Verdict |
| DL                                                                                                                                                                                                                                                                                                                        | 3704.0              | 4.1MHz AWGN | Pre-AGC       | 39.61                  | 28.91             | 115.62             | PASS    |
|                                                                                                                                                                                                                                                                                                                           |                     |             | 3dB above AGC | 39.58                  | 28.71             | 114.82             | PASS    |
|                                                                                                                                                                                                                                                                                                                           |                     | 100MHz AWGN | Pre-AGC       | 29.48                  | 2.81              | 11.23              | PASS    |
|                                                                                                                                                                                                                                                                                                                           |                     |             | 3dB above AGC | 29.61                  | 2.90              | 11.57              | PASS    |
|                                                                                                                                                                                                                                                                                                                           |                     | GSM         | Pre-AGC       | 45.89                  | 122.75            | 490.91             | PASS    |
|                                                                                                                                                                                                                                                                                                                           |                     |             | 3dB above AGC | 46.05                  | 127.36            | 509.34             | PASS    |
| Remark:<br>1. f0 is from Out-of-band Rejection test in the report.<br>2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer, the directional gain = G <sub>ANT</sub> + 10 log (N <sub>ANT</sub> ) dBi = 8dBi.<br>3. The output power is limited to an EIRP of 1640W/MHz. |                     |             |               |                        |                   |                    |         |



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| Peak-to-average ratio (PAR)                                                                                                          |                     |             |               |          |            |         |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|---------------|----------|------------|---------|
| Test Path                                                                                                                            | Test Freq. f0 (MHz) | Test Signal | Signal Level  | PAR (dB) | Limit (dB) | Verdict |
| DL                                                                                                                                   | 3704.0              | 4.1MHz AWGN | Pre-AGC       | 10.13    | ≤13        | PASS    |
|                                                                                                                                      |                     |             | 3dB above AGC | 10.23    |            | PASS    |
|                                                                                                                                      |                     | 100MHz AWGN | Pre-AGC       | 8.61     |            | PASS    |
|                                                                                                                                      |                     |             | 3dB above AGC | 8.74     |            | PASS    |
| Remark:<br>GSM signals are not similar to a noise-like signal, the PAR of a GSM signal is very low and not displayed in this report. |                     |             |               |          |            |         |



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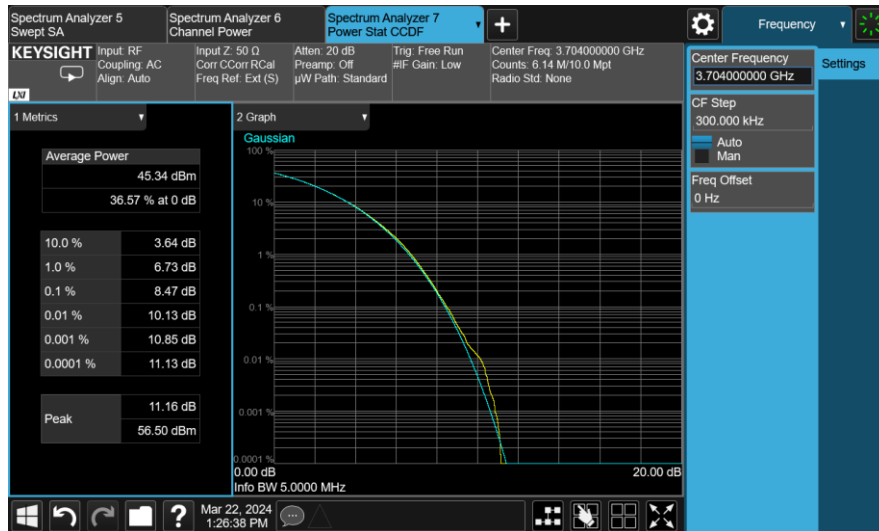
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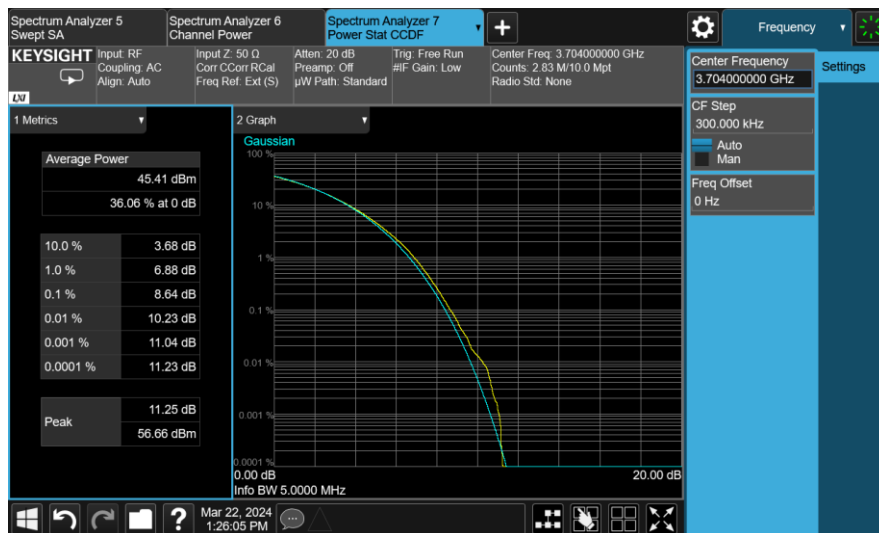
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### Peak-to-average ratio (PAR)

#### DL\_4.1MHz AWGN\_Pre-AGC



#### DL\_4.1MHz AWGN\_3dB above AGC

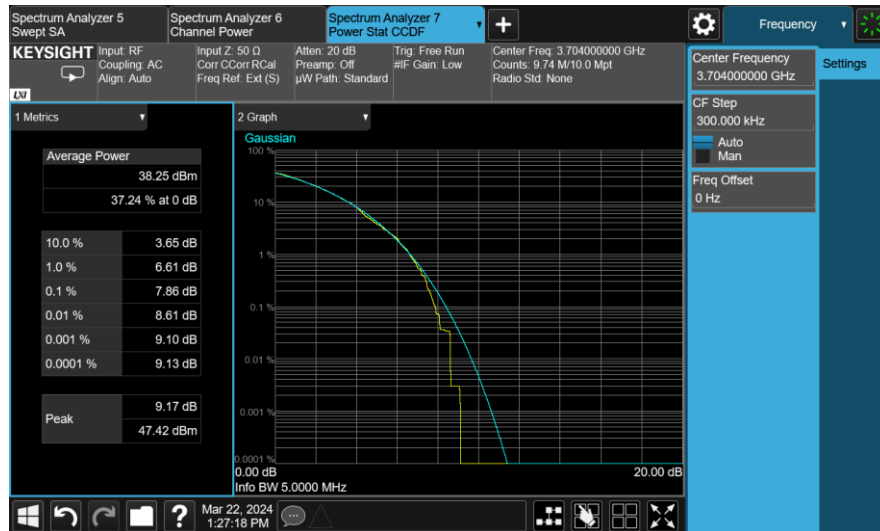


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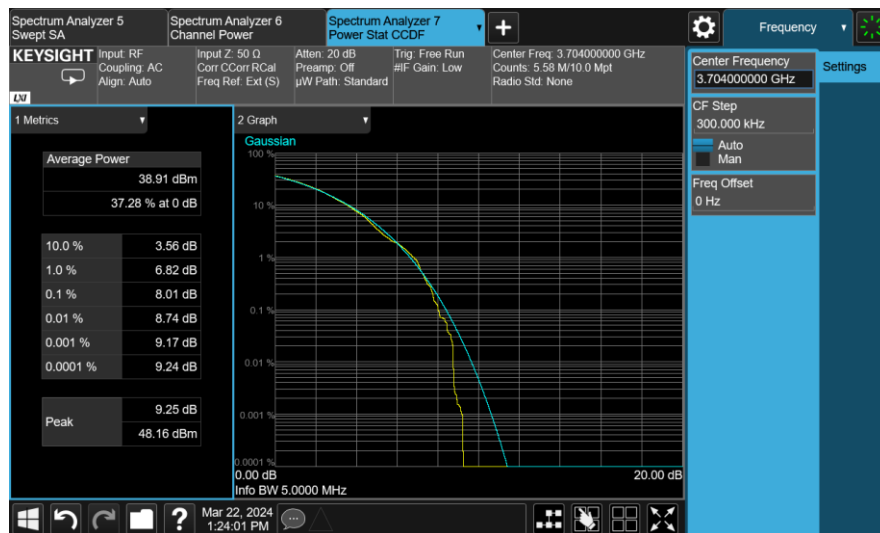
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### Peak-to-average ratio (PAR)

#### DL\_100MHz AWGN\_Pre-AGC



#### DL\_100MHz AWGN\_3dB above AGC



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## 4 Out-of-band/out-of-block(including intermodulation) emissions

| Out-of-band/out-of-block(including intermodulation) emissions |              |             |                    |               |                                  |        |                 |         |
|---------------------------------------------------------------|--------------|-------------|--------------------|---------------|----------------------------------|--------|-----------------|---------|
| Test Path                                                     | Test Channel | Test Signal | Stimulus Condition | Signal Level  | Worst conducted test level (dBm) |        | Limit (dBm/MHz) | Verdict |
|                                                               |              |             |                    |               | /200kHz                          | /1MHz  |                 |         |
| DL                                                            | LCH          | 4.1MHz AWGN | One signal input   | Pre-AGC       | -27.39                           | -20.40 | ≤-16            | PASS    |
|                                                               |              |             |                    |               | /                                | -17.03 |                 | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -26.90                           | -19.91 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -16.93 |                 | PASS    |
|                                                               |              |             | Two signals input  | Pre-AGC       | -29.03                           | -22.04 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -18.23 |                 | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -29.10                           | -22.11 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -18.67 |                 | PASS    |
|                                                               | HCH          |             | One signal input   | Pre-AGC       | -28.29                           | -21.30 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -16.86 |                 | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -28.49                           | -21.50 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -16.74 |                 | PASS    |
|                                                               |              |             | Two signals input  | Pre-AGC       | -30.85                           | -23.86 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -19.60 |                 | PASS    |
|                                                               |              |             |                    | 3dB above AGC | -30.74                           | -23.75 |                 | PASS    |
|                                                               |              |             |                    |               | /                                | -19.42 |                 | PASS    |

Remark:  
1. The level in 1MHz RBW= the level in 200kHz RBW+ 10lg(1000/200).  
2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.

| Out-of-band/out-of-block(including intermodulation) emissions                                                                                                                                             |              |             |                    |               |                                      |                 |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|--------------------|---------------|--------------------------------------|-----------------|---------|
| Test Path                                                                                                                                                                                                 | Test Channel | Test Signal | Stimulus Condition | Signal Level  | Worst conducted test level (dBm/MHz) | Limit (dBm/MHz) | Verdict |
| DL                                                                                                                                                                                                        | LCH          | 100MHz AWGN | One signal input   | Pre-AGC       | -18.15                               | ≤-16            | PASS    |
|                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -17.34                               |                 | PASS    |
|                                                                                                                                                                                                           |              |             | Two signals input  | Pre-AGC       | -19.82                               |                 | PASS    |
|                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -18.77                               |                 | PASS    |
|                                                                                                                                                                                                           | HCH          |             | One signal input   | Pre-AGC       | -18.23                               |                 | PASS    |
|                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -17.25                               |                 | PASS    |
|                                                                                                                                                                                                           |              |             | Two signals input  | Pre-AGC       | -19.11                               |                 | PASS    |
|                                                                                                                                                                                                           |              |             |                    | 3dB above AGC | -18.82                               |                 | PASS    |
| Remark:<br>For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently. |              |             |                    |               |                                      |                 |         |

| Out-of-band/out-of-block(including intermodulation) emissions                                                                                                                                                                                                                    |              |             |                    |               |                                  |        |                 |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|--------------------|---------------|----------------------------------|--------|-----------------|---------|
| Test Path                                                                                                                                                                                                                                                                        | Test Channel | Test Signal | Stimulus Condition | Signal Level  | Worst conducted test level (dBm) |        | Limit (dBm/MHz) | Verdict |
|                                                                                                                                                                                                                                                                                  |              |             |                    |               | /10kHz                           | /1MHz  |                 |         |
| DL                                                                                                                                                                                                                                                                               | LCH          | GSM         | One signal input   | Pre-AGC       | -38.63                           | -18.63 | ≤-16            | PASS    |
|                                                                                                                                                                                                                                                                                  |              |             |                    | 3dB above AGC | -39.38                           | -19.38 |                 | PASS    |
|                                                                                                                                                                                                                                                                                  |              |             | Two signals input  | Pre-AGC       | -37.75                           | -17.75 |                 | PASS    |
|                                                                                                                                                                                                                                                                                  |              |             |                    | 3dB above AGC | -37.37                           | -17.37 |                 | PASS    |
|                                                                                                                                                                                                                                                                                  | HCH          |             | One signal input   | Pre-AGC       | -39.19                           | -19.19 |                 | PASS    |
|                                                                                                                                                                                                                                                                                  |              |             |                    | 3dB above AGC | -39.13                           | -19.13 |                 | PASS    |
|                                                                                                                                                                                                                                                                                  |              |             | Two signals input  | Pre-AGC       | -37.39                           | -17.39 |                 | PASS    |
|                                                                                                                                                                                                                                                                                  |              |             |                    | 3dB above AGC | -37.01                           | -17.01 |                 | PASS    |
| Remark:<br>1. The level in 1MHz RBW= the level in 10kHz RBW+ 10lg(1000/10).<br>2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently. |              |             |                    |               |                                  |        |                 |         |



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| Out-of-band/out-of-block(including intermodulation) emissions                                                                                                                                                                                                                      |              |             |                    |               |                                  |        |                 |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|--------------------|---------------|----------------------------------|--------|-----------------|---------|
| Test Path                                                                                                                                                                                                                                                                          | Test Channel | Test Signal | Stimulus Condition | Signal Level  | Worst conducted test level (dBm) |        | Limit (dBm/MHz) | Verdict |
|                                                                                                                                                                                                                                                                                    |              |             |                    |               | /100kHz                          | /1MHz  |                 |         |
| DL                                                                                                                                                                                                                                                                                 | LCH          | GSM         | One signal input   | Pre-AGC       | -34.31                           | -24.31 | ≤-16            | PASS    |
|                                                                                                                                                                                                                                                                                    |              |             |                    | 3dB above AGC | -34.22                           | -24.22 |                 | PASS    |
|                                                                                                                                                                                                                                                                                    |              |             | Two signals input  | Pre-AGC       | -33.50                           | -23.50 |                 | PASS    |
|                                                                                                                                                                                                                                                                                    |              |             |                    | 3dB above AGC | -33.51                           | -23.51 |                 | PASS    |
|                                                                                                                                                                                                                                                                                    | HCH          |             | One signal input   | Pre-AGC       | -36.63                           | -26.63 |                 | PASS    |
|                                                                                                                                                                                                                                                                                    |              |             |                    | 3dB above AGC | -35.88                           | -25.88 |                 | PASS    |
|                                                                                                                                                                                                                                                                                    |              |             | Two signals input  | Pre-AGC       | -33.16                           | -23.16 |                 | PASS    |
|                                                                                                                                                                                                                                                                                    |              |             |                    | 3dB above AGC | -33.05                           | -23.05 |                 | PASS    |
| Remark:<br>1. The level in 1MHz RBW= the level in 100kHz RBW+ 10lg(1000/100).<br>2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently. |              |             |                    |               |                                  |        |                 |         |

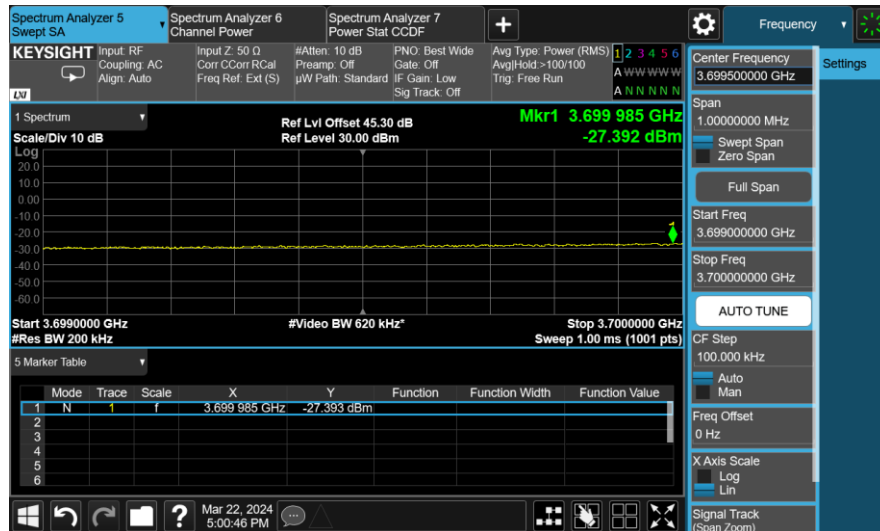


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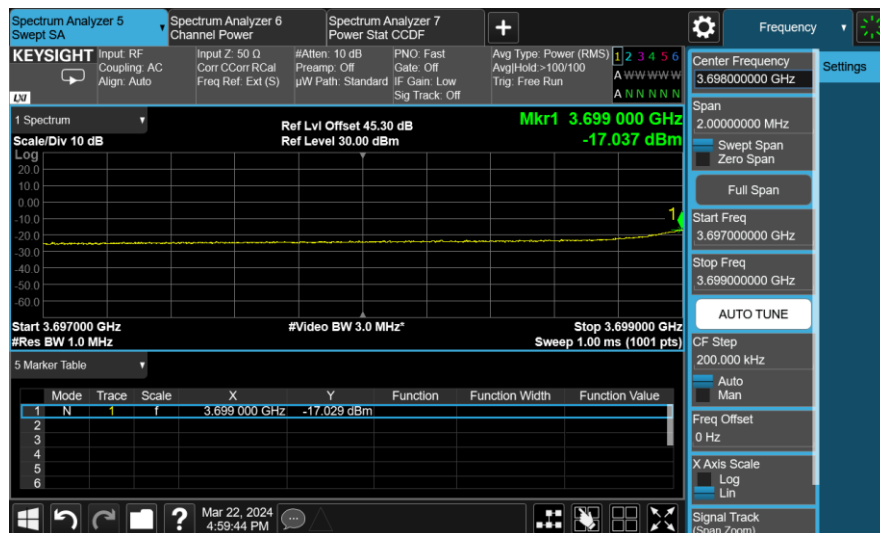
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC 1



#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC 2



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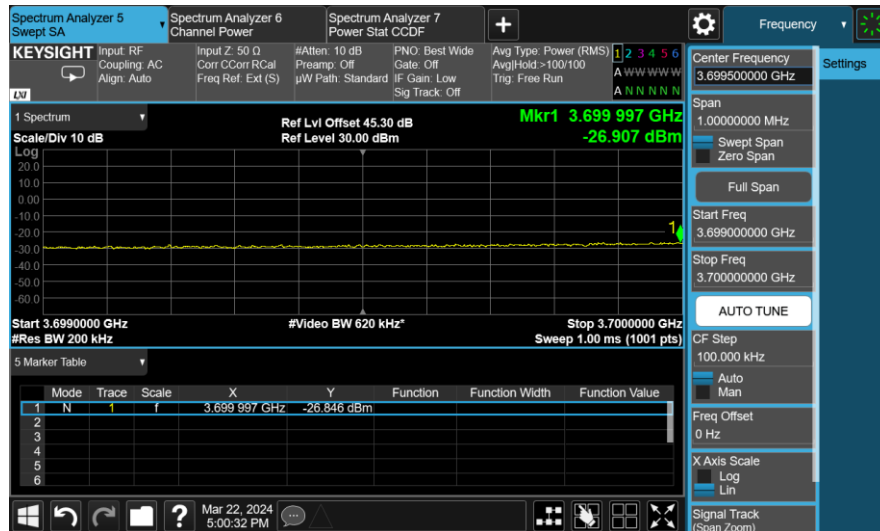
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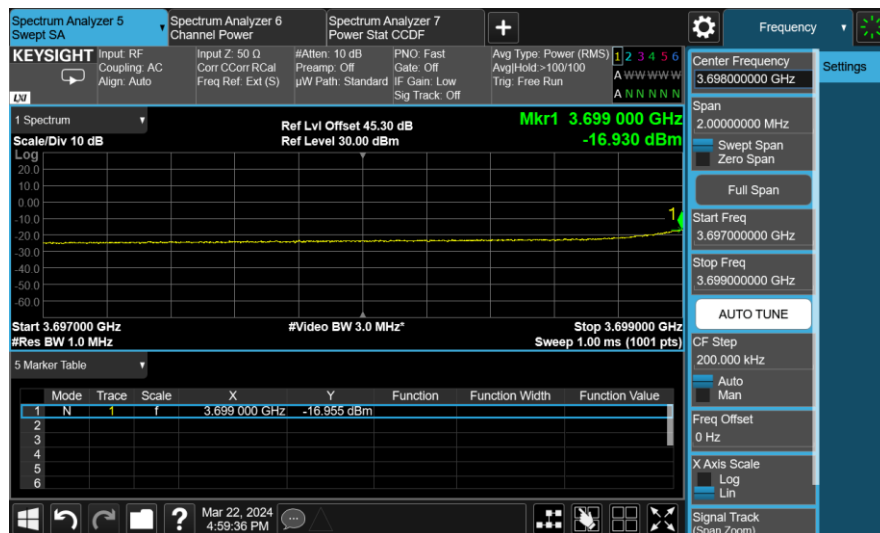
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC 1



#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC 2

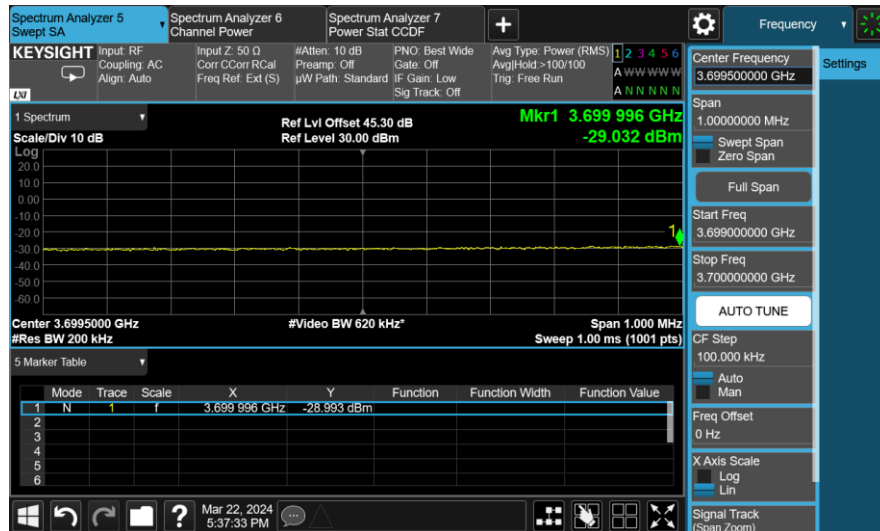


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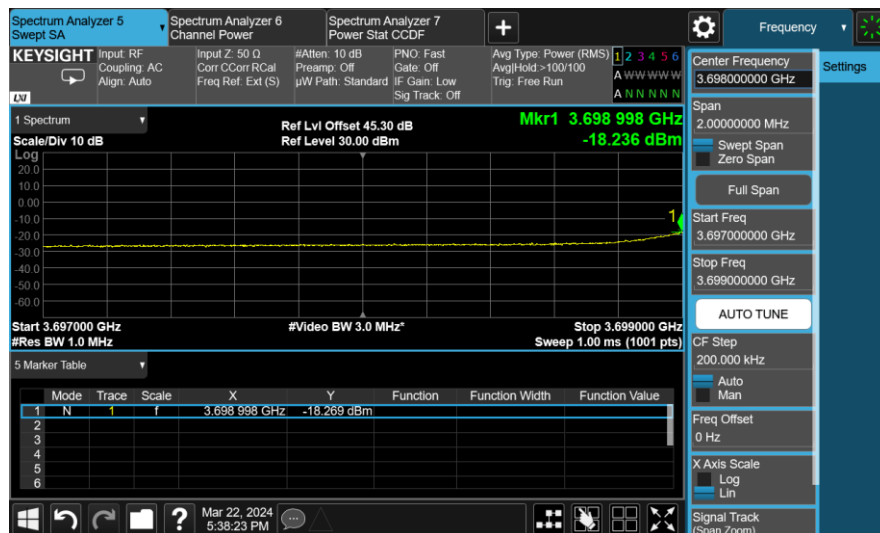
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC 1



#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC 2



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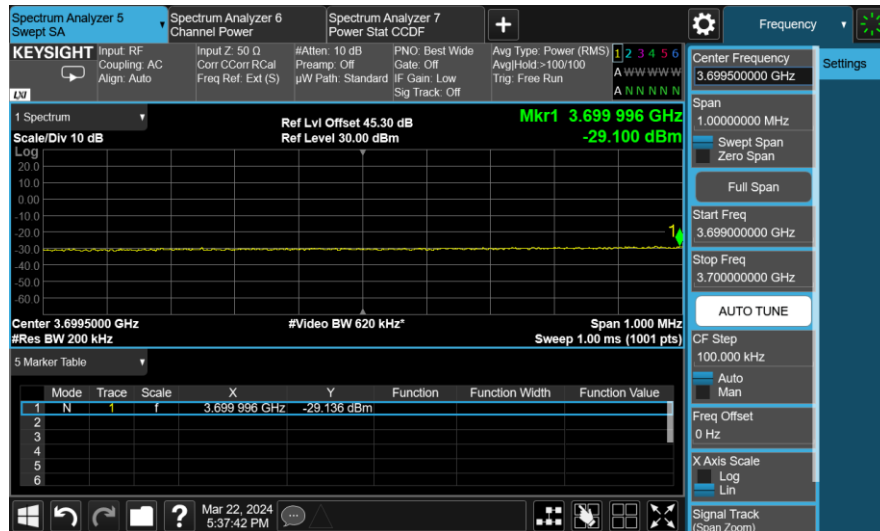
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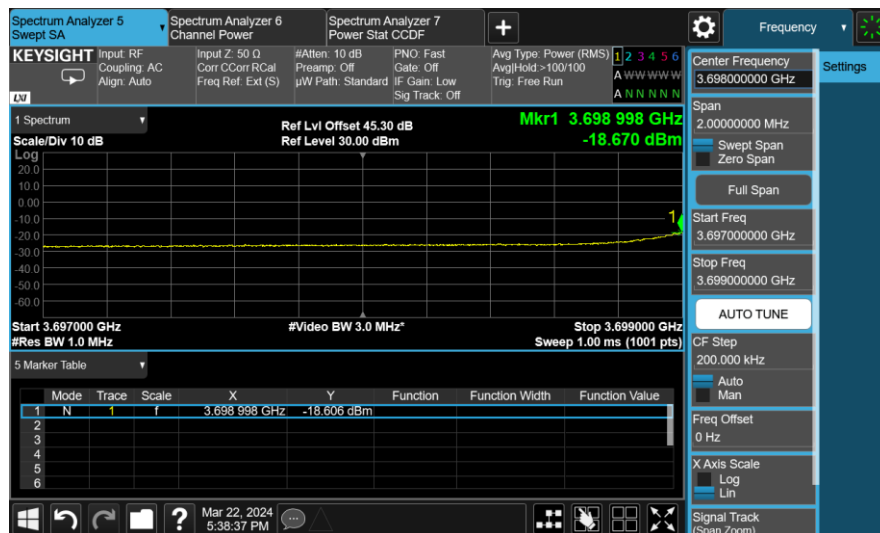
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals \_3dB above AGC 1

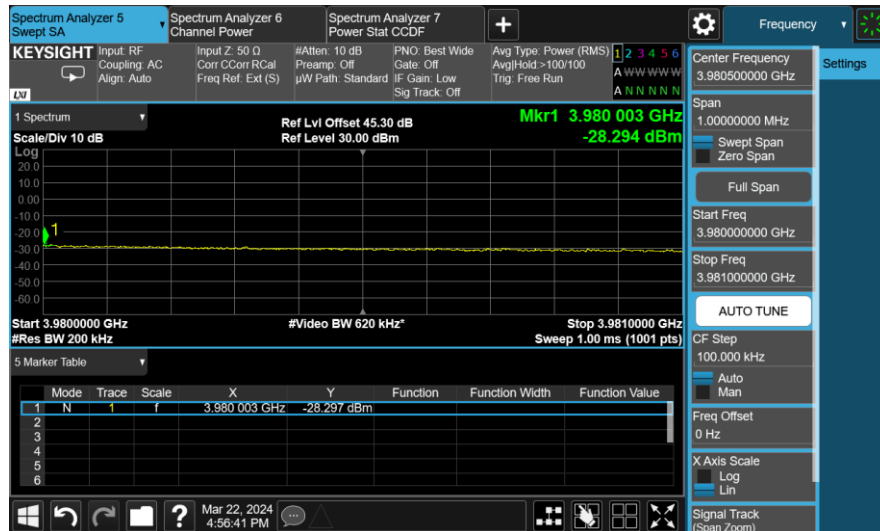


#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals \_3dB above AGC 2

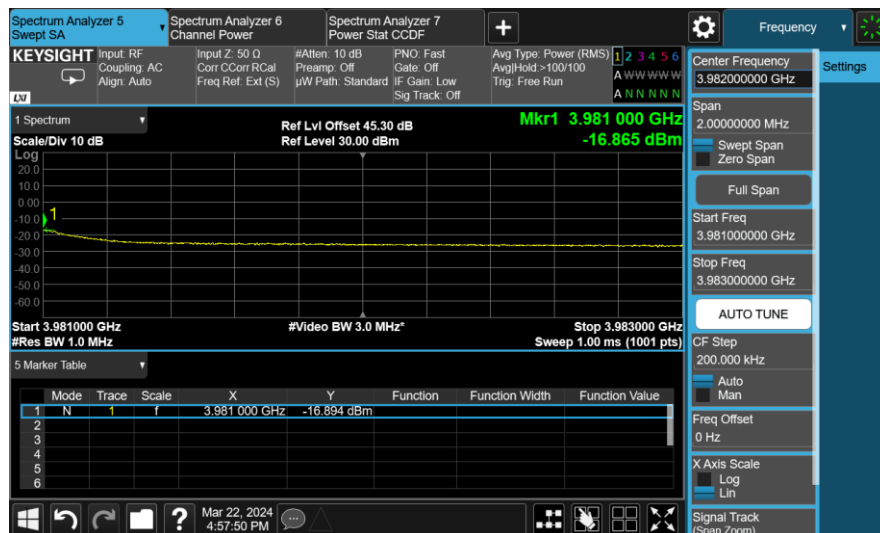


### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC 1



#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC 2



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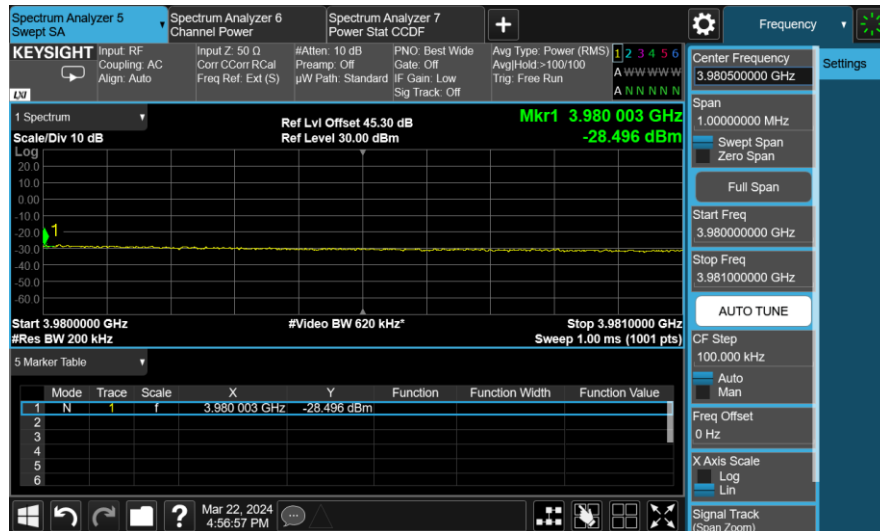
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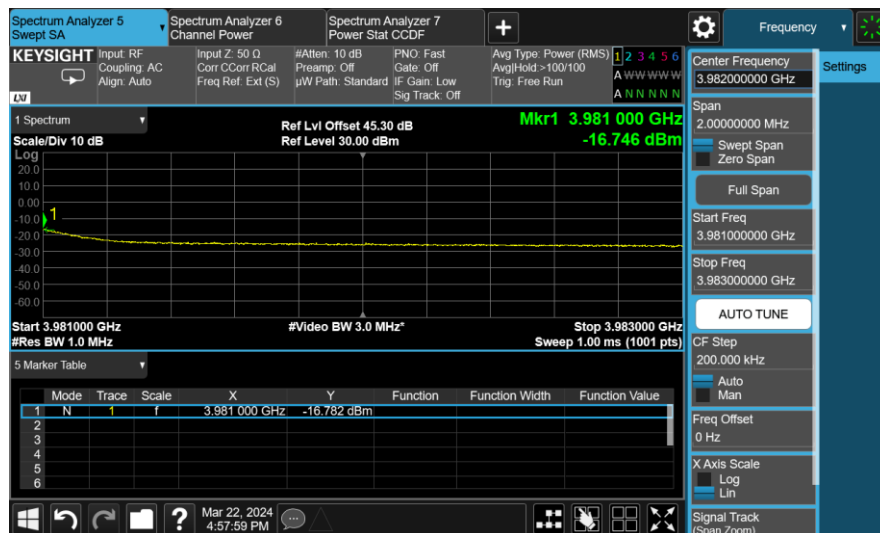
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC 1



#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC 2



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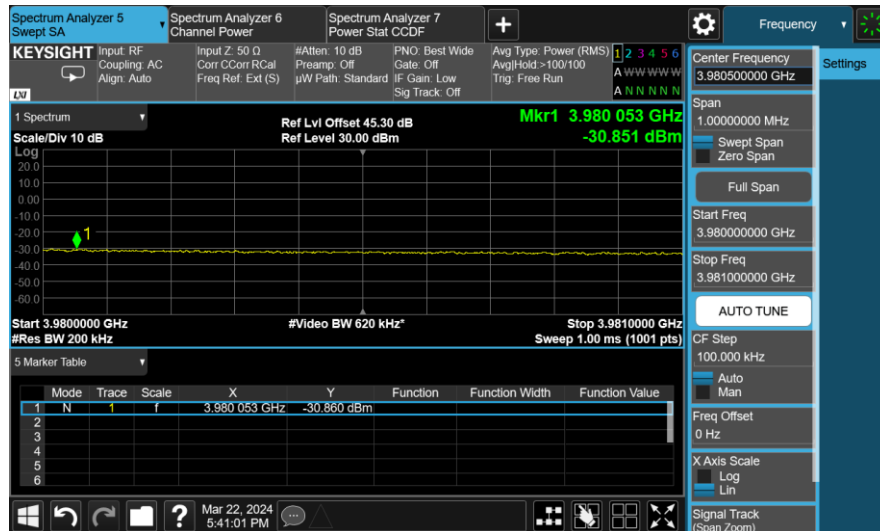
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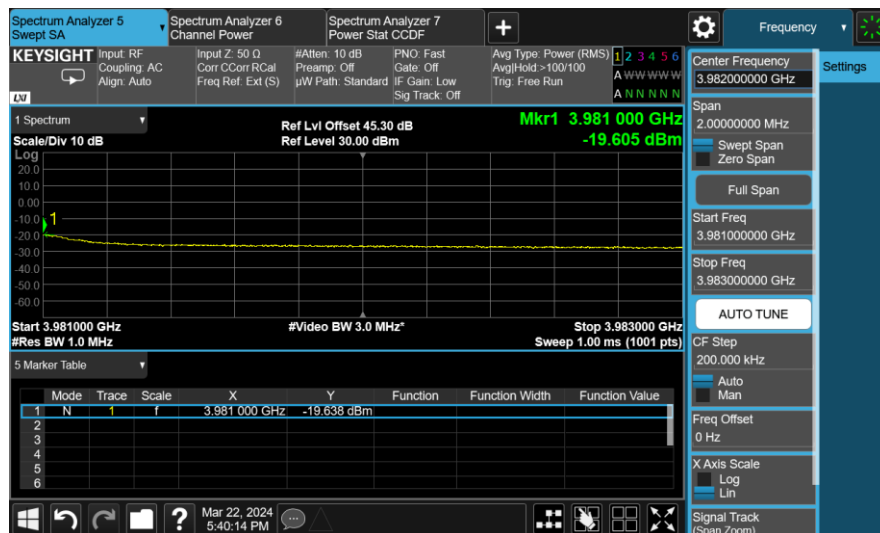
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC 1



#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC 2



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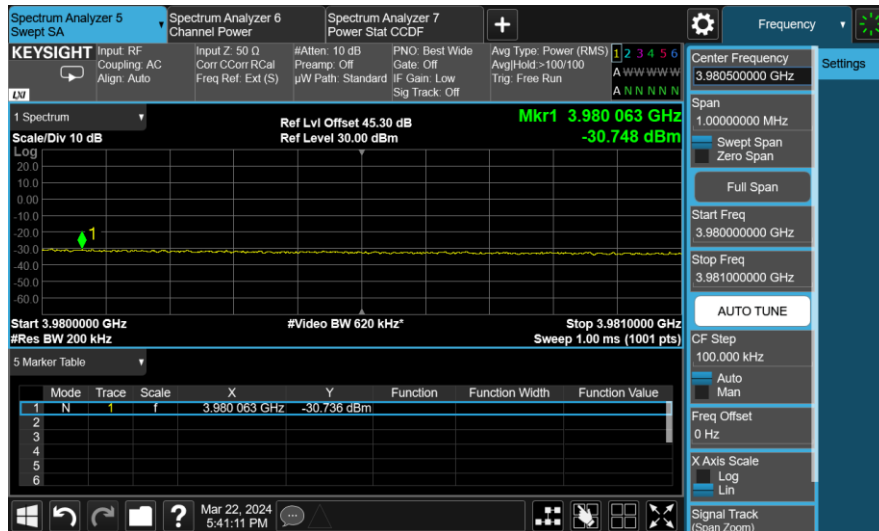
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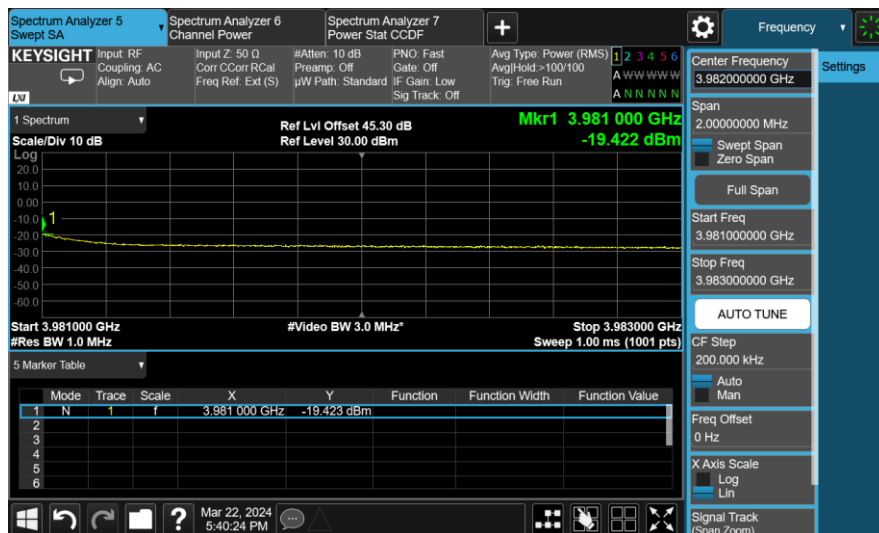
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC 1



#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC 2



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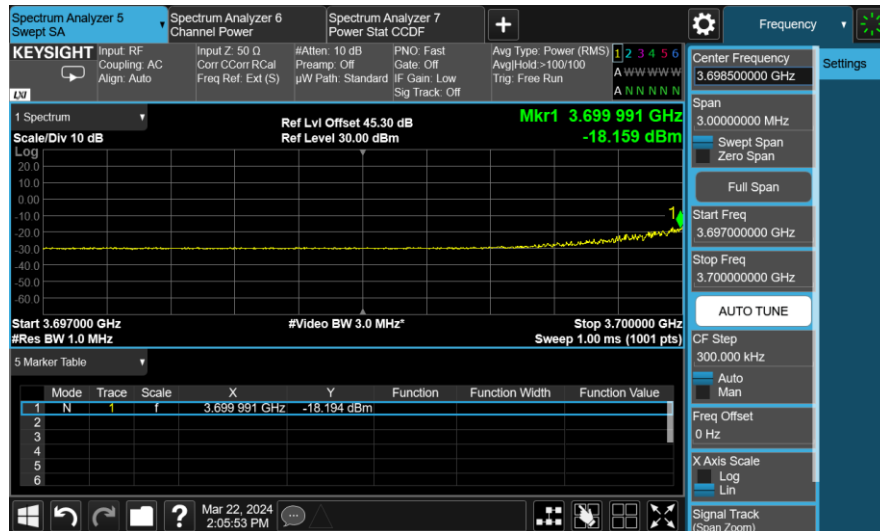
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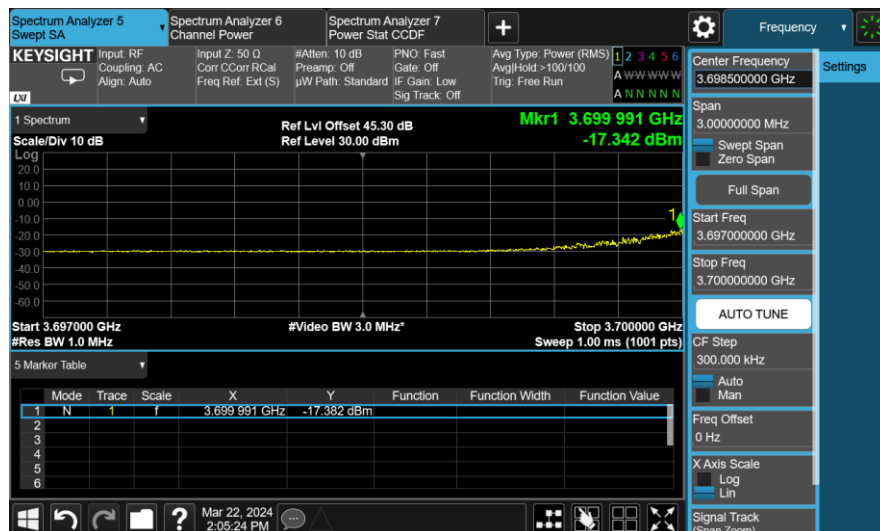
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_LCH\_a single test signal\_Pre-AGC



#### DL\_100MHz AWGN\_LCH\_a single test signal\_3dB above AGC



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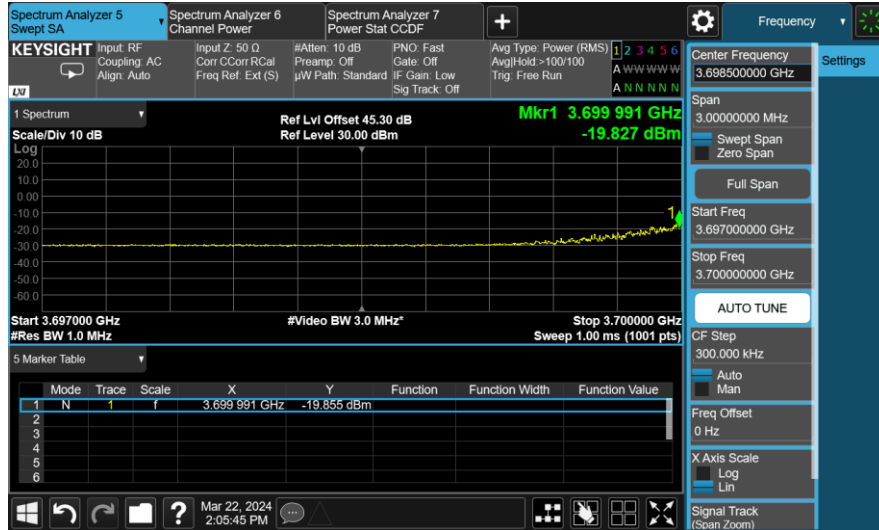
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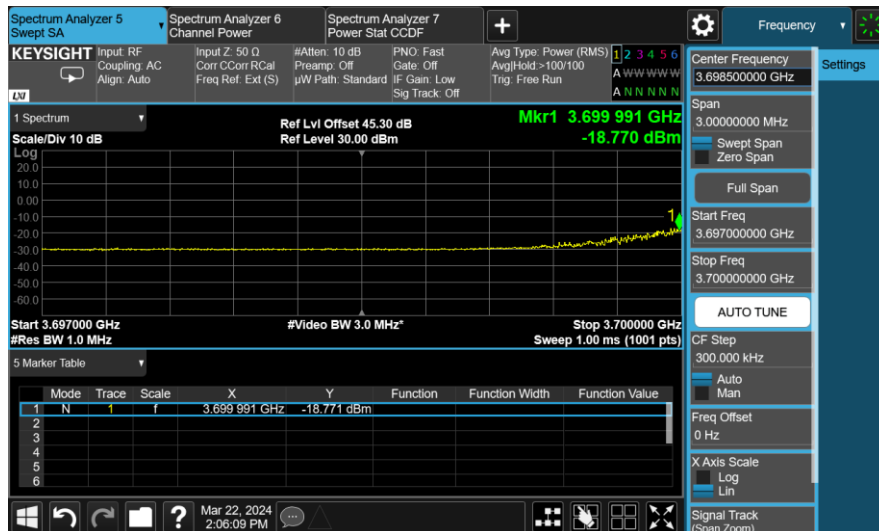
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC

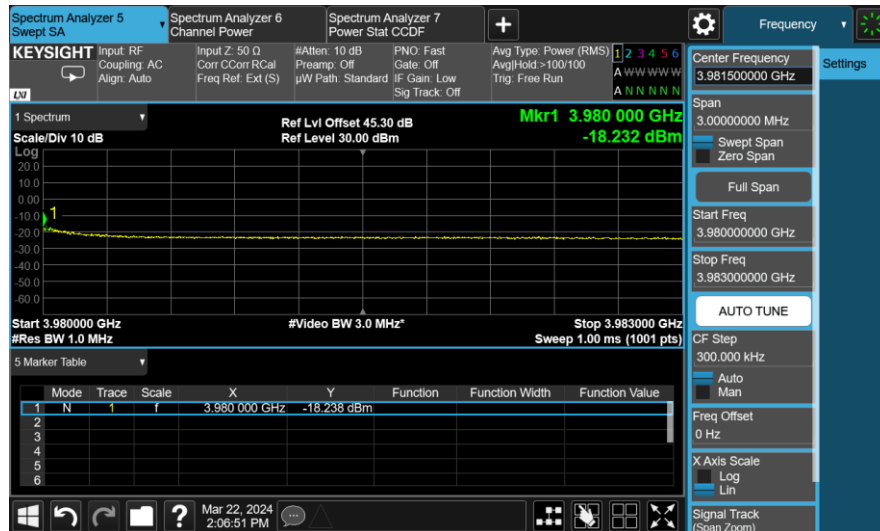


#### DL\_100MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC

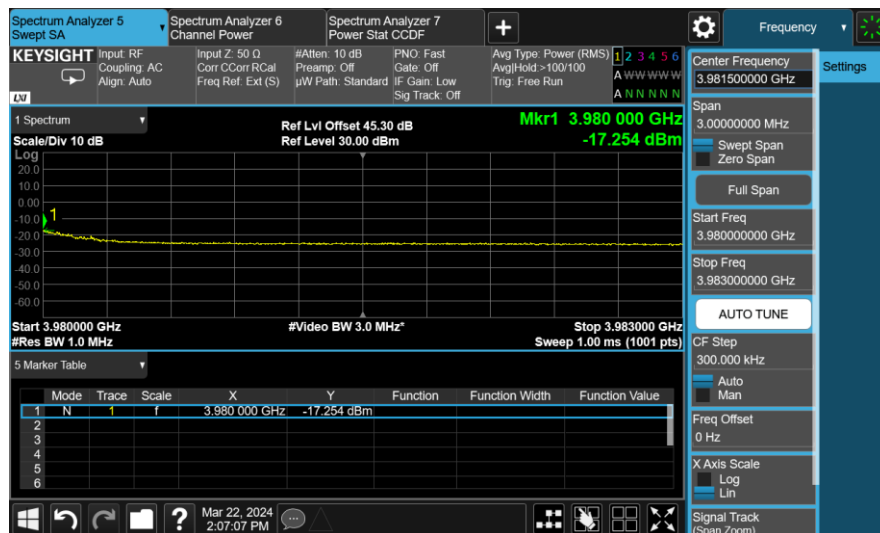


### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_HCH\_a single test signal\_Pre-AGC



#### DL\_100MHz AWGN\_HCH\_a single test signal\_3dB above AGC



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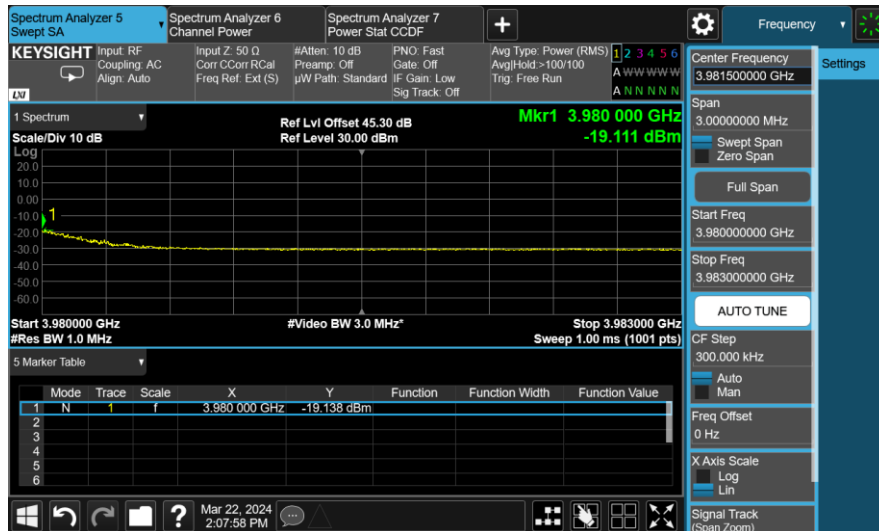
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Guangzhou Branch Testing Laboratory

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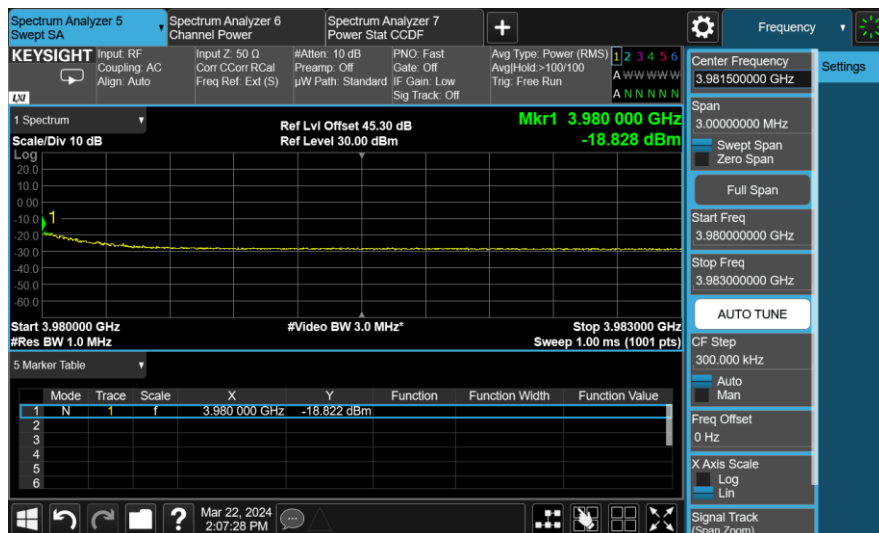
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_100MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC



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