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Application No.: GZCR2103000022AT

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FCC ID: OJFDLRU1719235

Appendix B

Test Data and Result Details of GZCR2103000022AT



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Guangzhou Branch | 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

1 AWS-2 & AWS-4 (only for downlink: 1995-2020MHz)

1.1 AGC threshold level

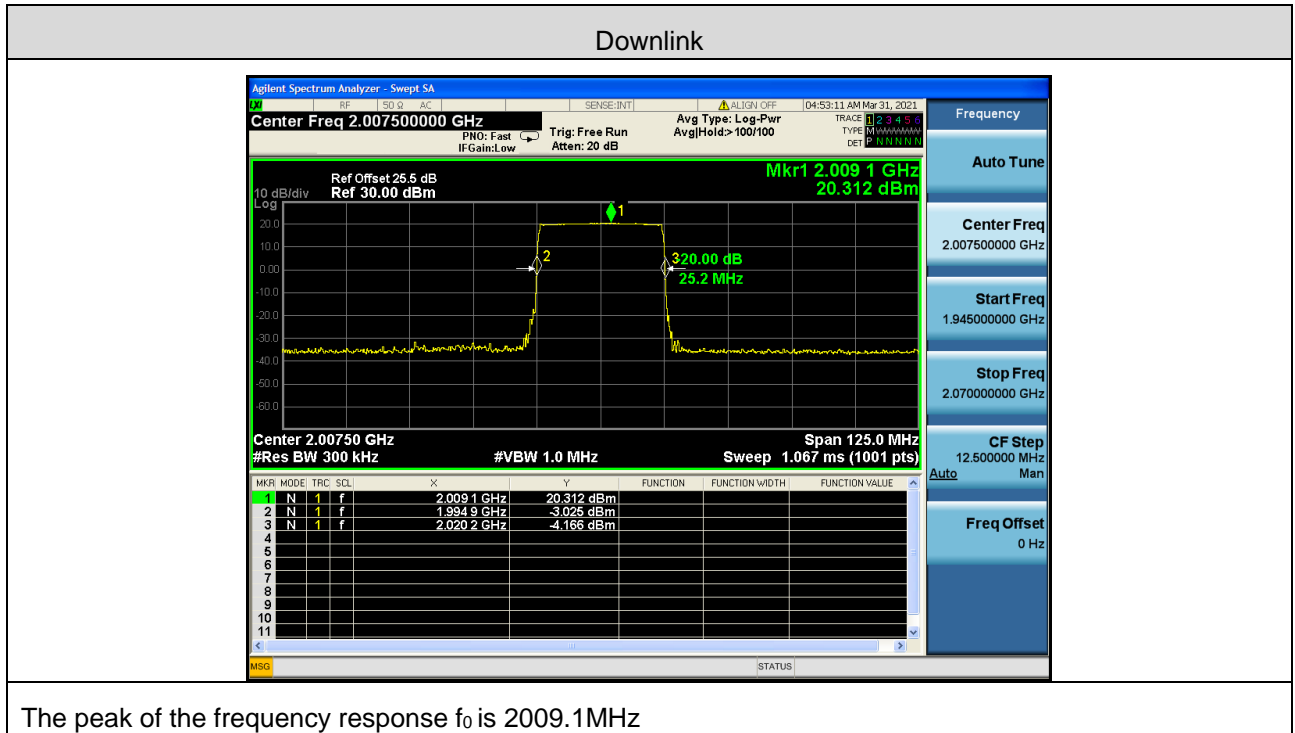
| Test Conf. | AGC Threshold level |
|--------------|---------------------|
| DL_1S_M_AWGN | -0.20dBm |
| DL_1S_M_GSM | -0.25dBm |



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1.2 Out-of-band rejection

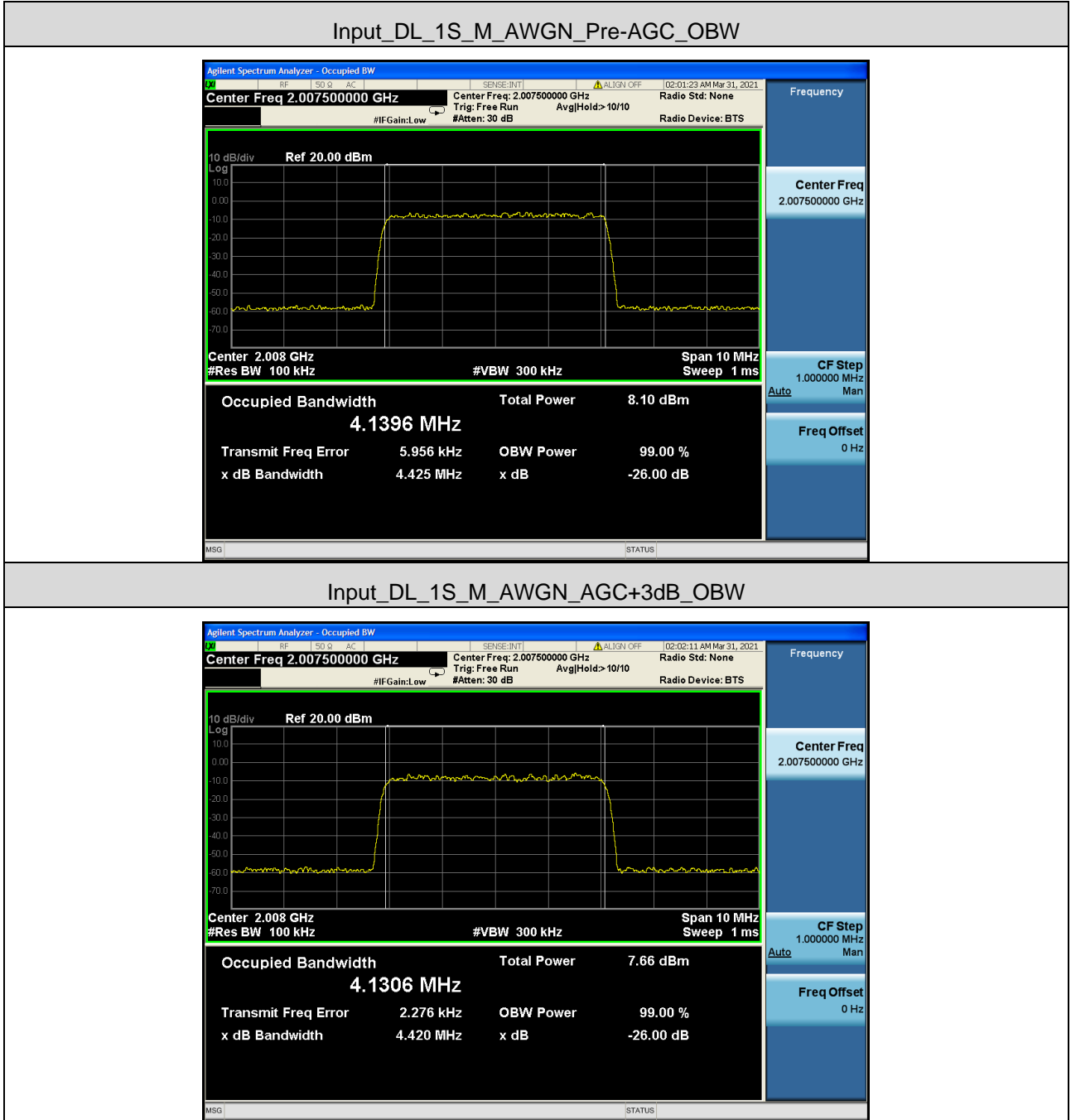


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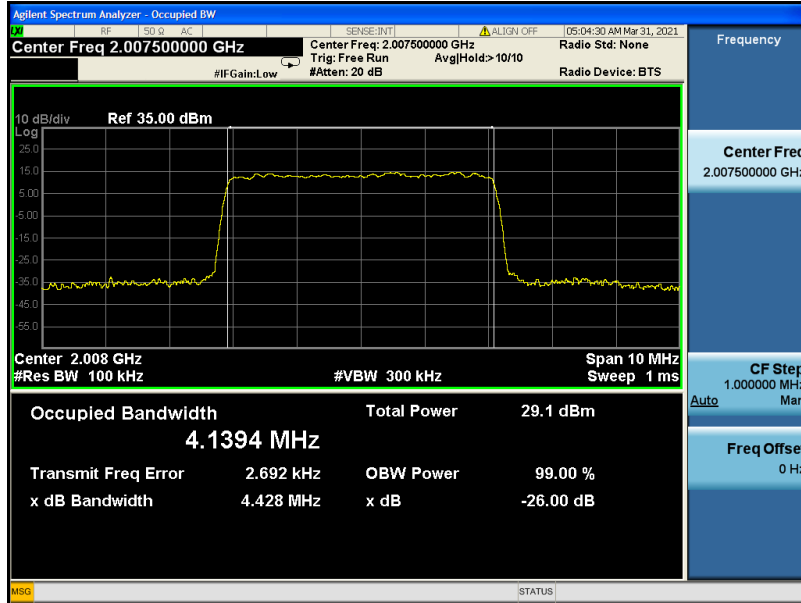
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1.3 Input-versus-output signal comparison

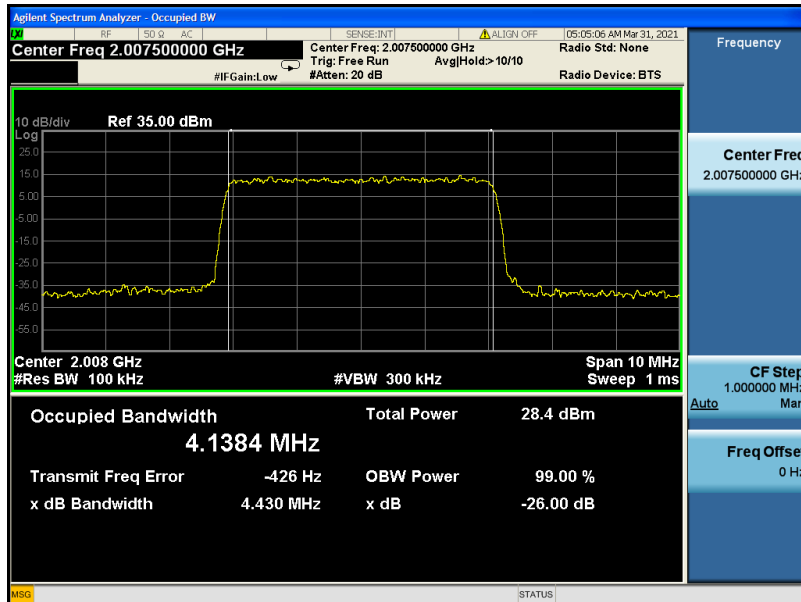


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Output_DL_1S_M_AWGN_Pre-AGC_OBW

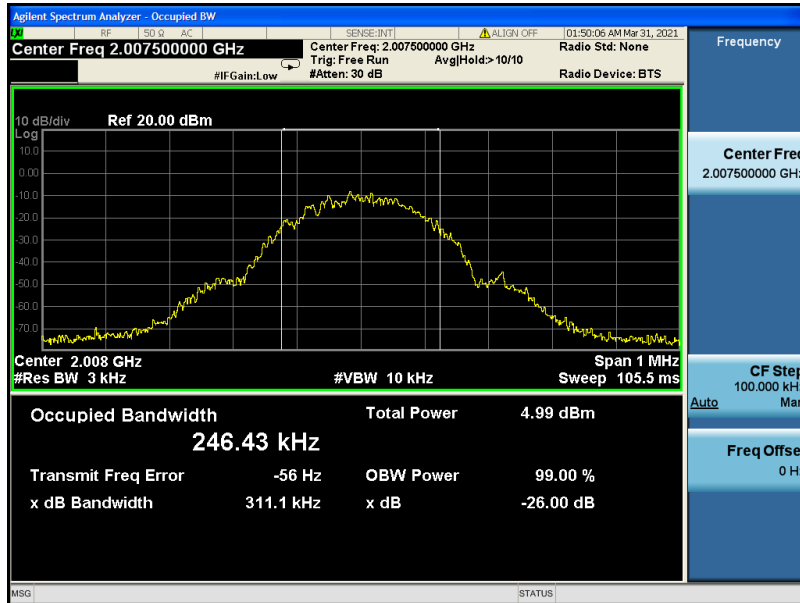


Output_DL_1S_M_AWGN_AGC+3dB_OBW

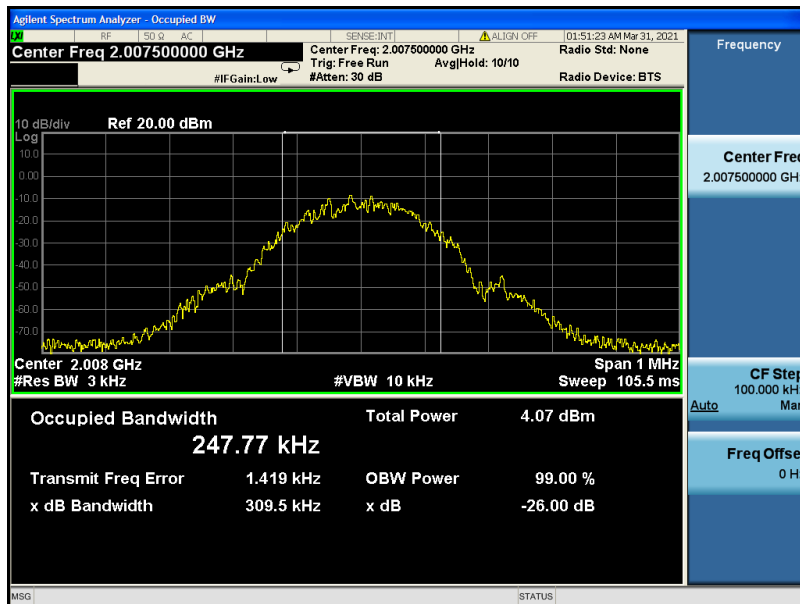


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Input_DL_1S_M_GSM_Pre-AGC_OBW

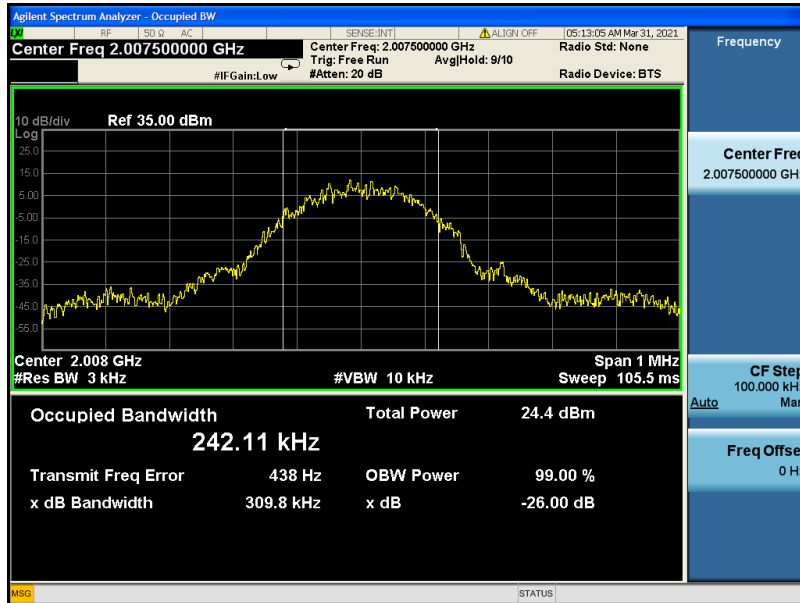


Input_DL_1S_M_GSM_AGC+3dB_OBW

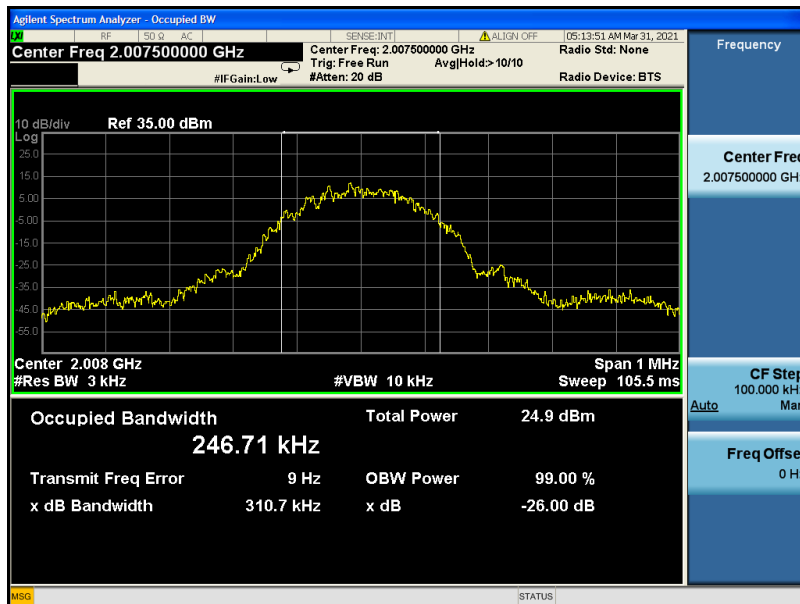


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Output_DL_1S_M_GSM_Pre-AGC_OBW



Output_DL_1S_M_GSM_AGC+3dB_OBW



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Guangzhou Branch**

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Remark:

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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1.4 Mean output power and amplifier/booster gain

| Test Conf. | Test Freq. f ₀ (MHz) | Signal Level | Input Power (dBm) | Output Power (dBm) | Gain (dB) | Verdict |
|------------|------------------------------------|--------------|----------------------|-----------------------|--------------|---------|
| DL_1S_AWGN | 2009.1 | Pre-AGC | -0.30 | 20.10 | 20.40 | PASS |
| | | AGC+3dB | 2.70 | 20.24 | / | PASS |
| DL_1S_GSM | 2009.1 | Pre-AGC | -0.35 | 20.26 | 20.61 | PASS |
| | | AGC+3dB | 2.65 | 20.18 | / | PASS |

Remark:

1. According to the declaration from the applicant, the antenna gain should not exceed 12.5dBi, the Directional gain = G(ANT) + 10 log (NANT) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

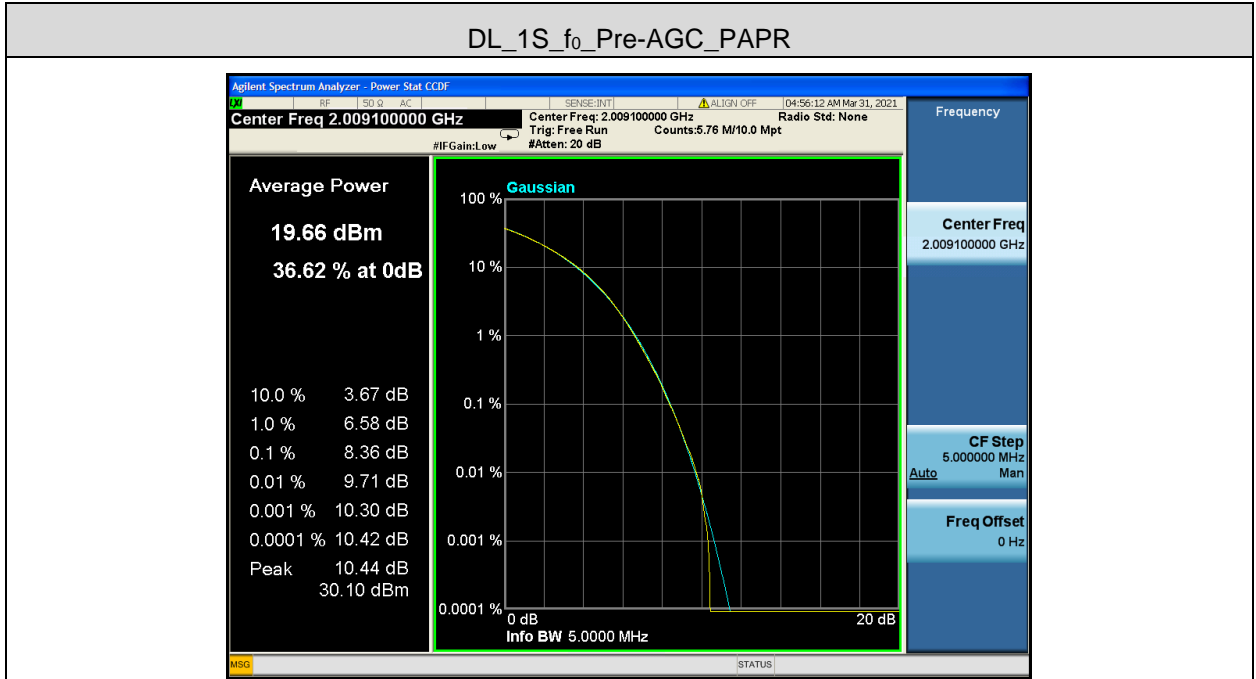
The total maximum EIRP for the EUT is (20.26dBm+20.26dBm) +15.5dBi=38.92dBm (7.80W) which don't exceed the required EIRP limit (1640W/MHz).

2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.50(d)(1) and 27.50(d)(2) apply.



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| Test Conf. | Test Freq. f ₀ (MHz) | Signal Level | PAPR (dB) | Limit (dB) | Verdict |
|------------|------------------------------------|--------------|--------------|---------------|---------|
| DL_1S_AWGN | 2009.1 | Pre-AGC | 9.71 | 13 | PASS |



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1.5 Out-of-band/out-of-block (including intermodulation) emissions and spurious emissions

Note: The EUT support 2x2 MIMO, Per 662911 D01 Multiple Transmitter Output v02r01 clause (3)(a)(iii): Measure and add $10 \log(\text{NANT})$ dB, where NANT is the number of outputs to combine the emission measurements from multiple outputs prior to comparing to the emission limit.

Here, the factor $10 \log(\text{NANT})$ dB = $10 \log(2)$ dB = 3.01dB.

1. The tested max conducted power for single antenna port is 20.26dBm, 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

Here,

$P = 20.26\text{dBm} = 0.1062\text{W}$.

So the limit =

$P(\text{dBm}) - [43 + 10 \log(0.1062\text{W})] = -13\text{dBm}$

The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit line was set to -16.01dBm in following test plots in order to determine the test result conveniently.

2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.53(h)(1) and 27.53(h)(3) apply.

3. Pretest performe at AWS-2 : 1995MHz to 2000MHz block ;

Pretest performe at AWS-4 : 2000MHz to 2020MHz block ;

Pretest performe at combined AWS-4 and AWS-2 : 1995MHz to 2020MHz block ;

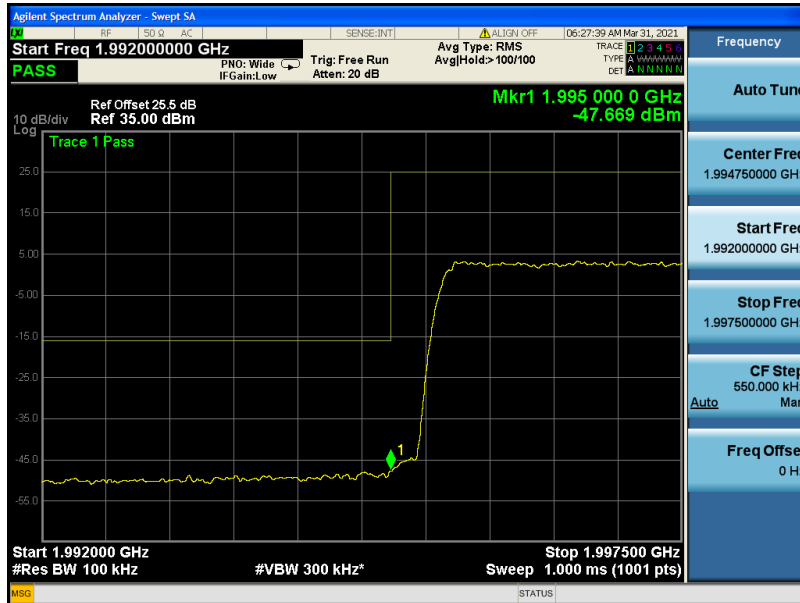
As the emission limit of above sub-block are identical, therefore, only the worst-case combined AWS-4 and AWS-2 block test plot was record in the report.



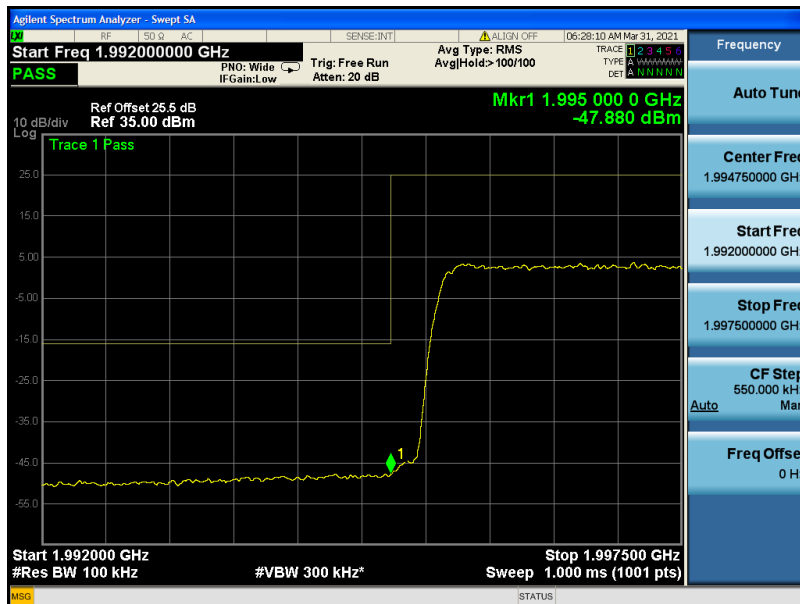
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DL_1S_B_AWGN_Pre-AGC_Out-of-band emission

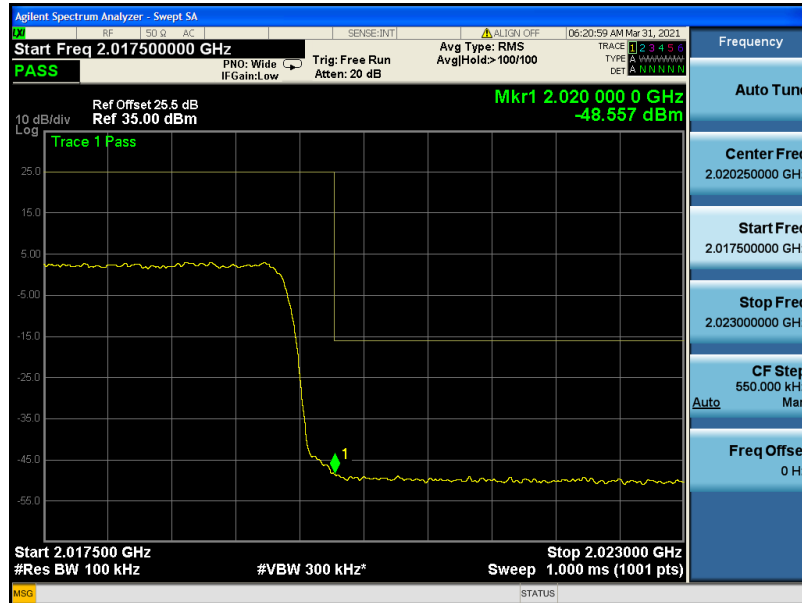


DL_1S_B_AWGN_AGC+3_Out-of-band emission

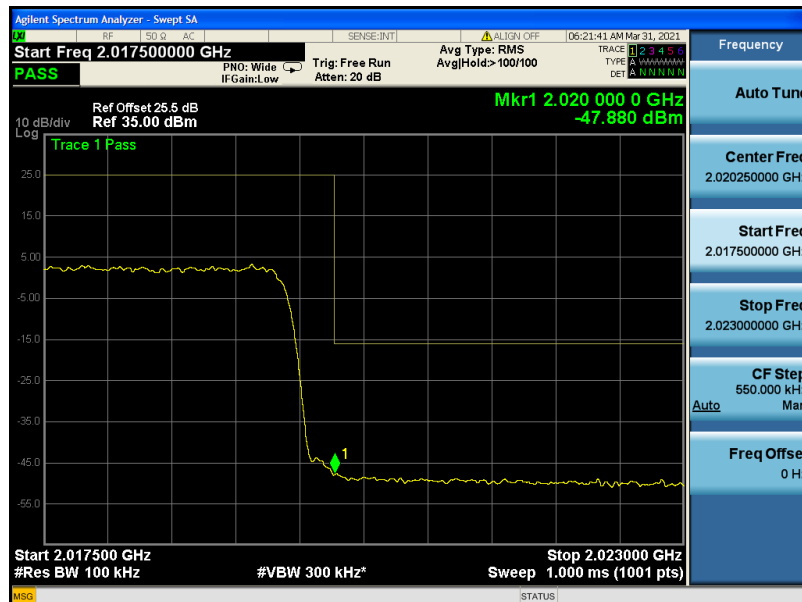


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DL_1S_T_AWGN_Pre-AGC_Out-of-band emission

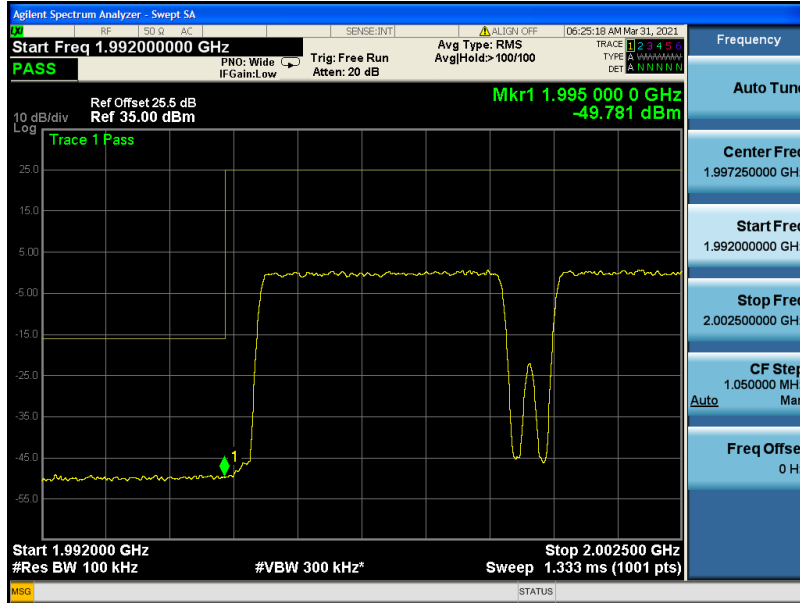


DL_1S_T_AWGN_AGC+3_Out-of-band emission

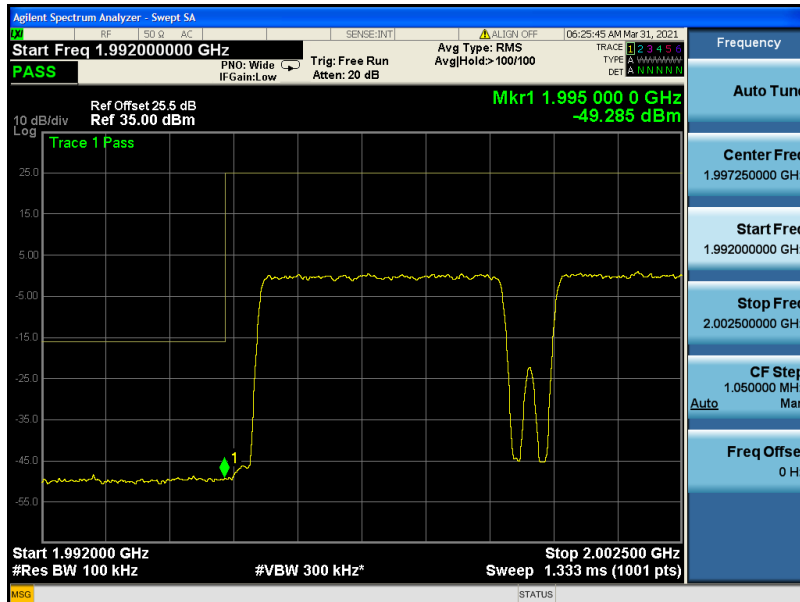


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DL_2S_B_AWGN_Pre-AGC_Out-of-band emission

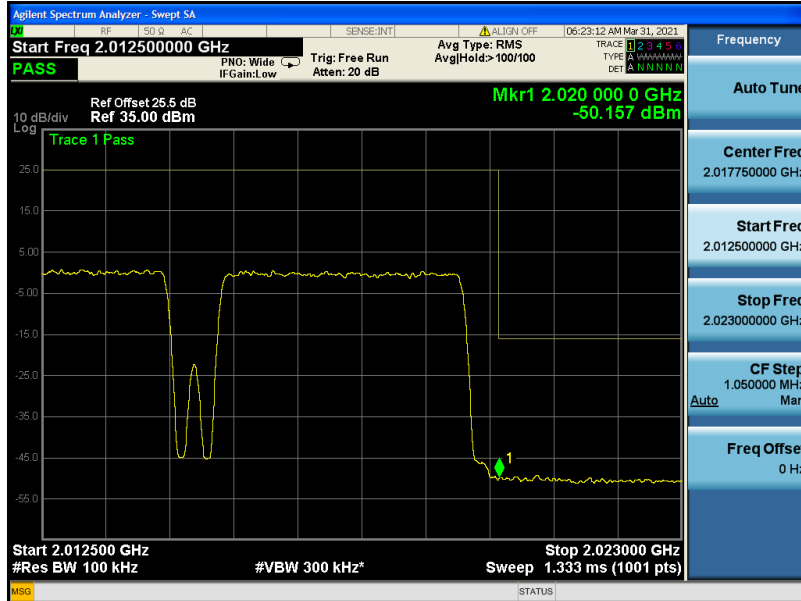


DL_2S_B_AWGN_AGC+3_Out-of-band emission

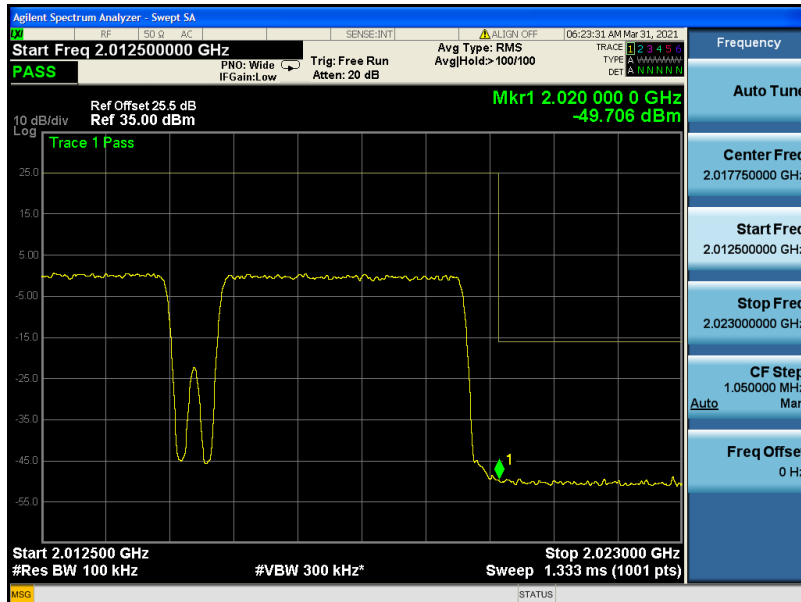


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DL_2S_T_AWGN_Pre-AGC_Out-of-band emission

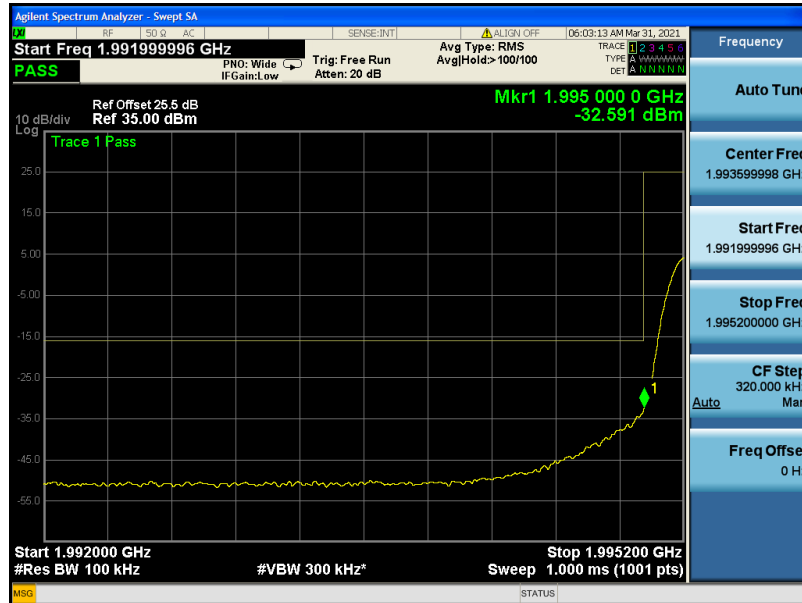


DL_2S_T_AWGN_AGC+3_Out-of-band emission

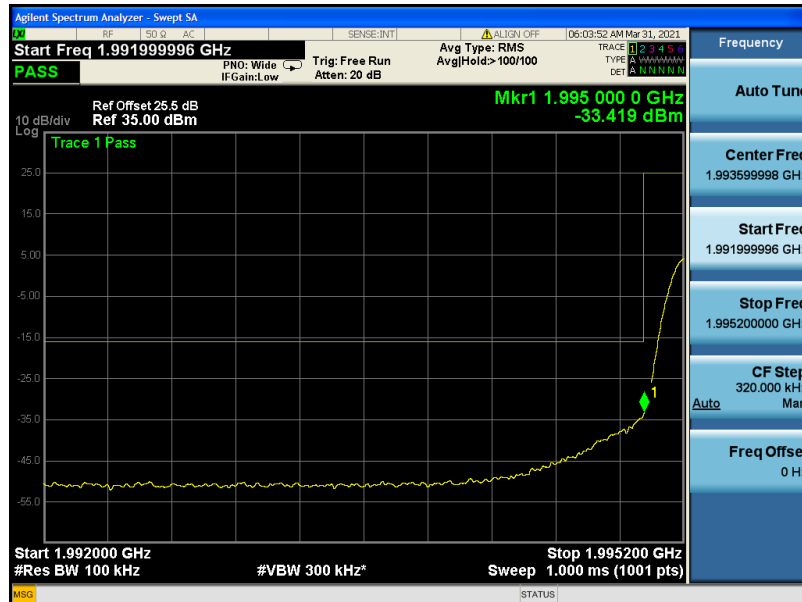


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DL_1S_B_GSM_Pre-AGC_Out-of-band emission

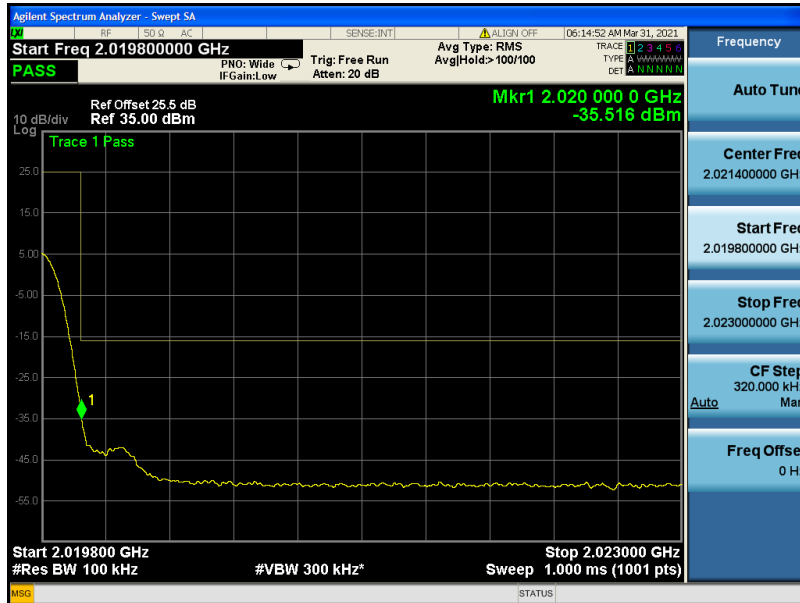


DL_1S_B_GSM_AGC+3_Out-of-band emission

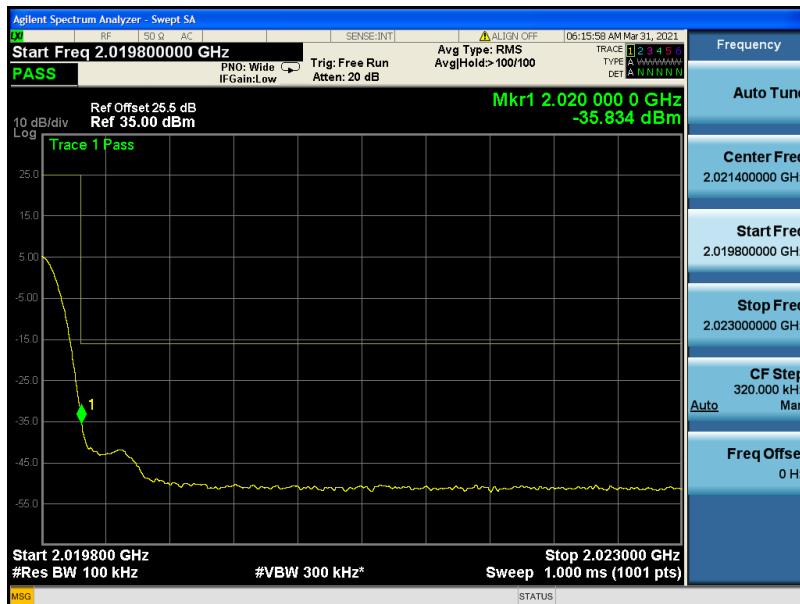


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DL_1S_T_GSM_Pre-AGC_Out-of-band emission

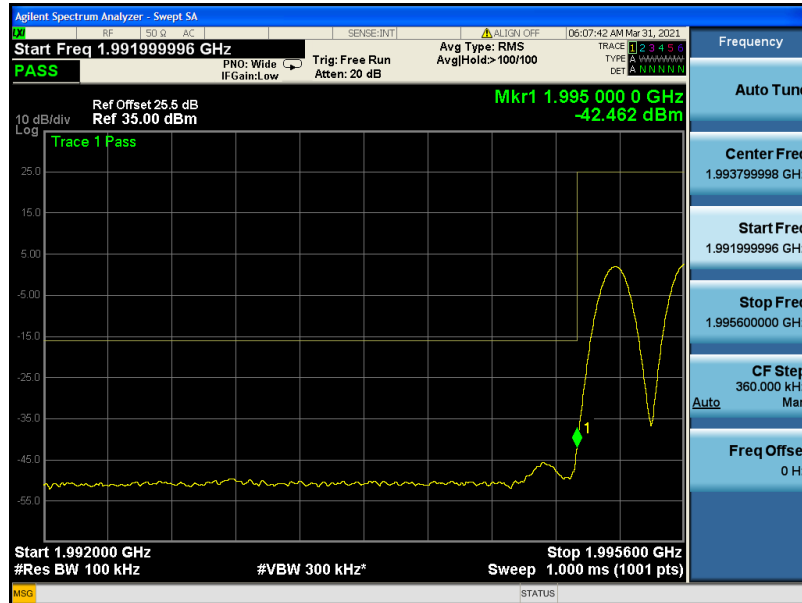


DL_1S_T_GSM_AGC+3_Out-of-band emission

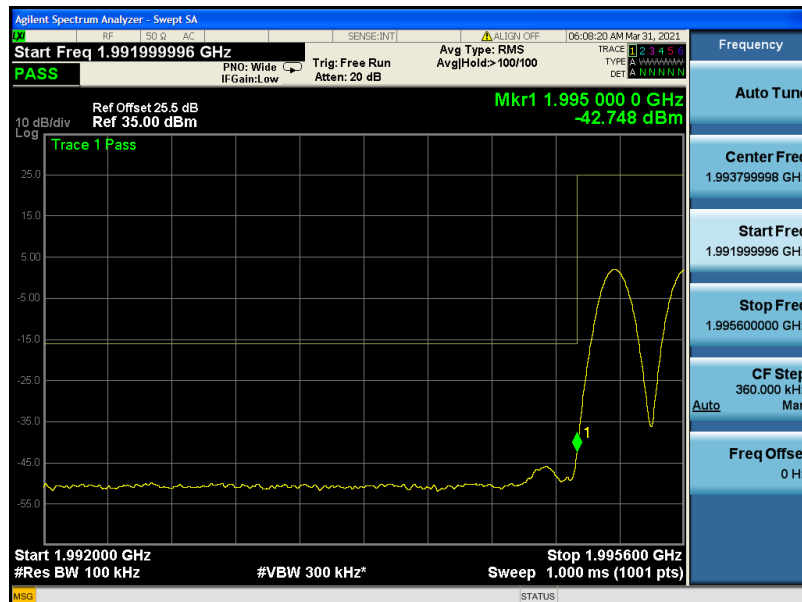


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DL_2S_B_GSM_Pre-AGC_Out-of-band emission

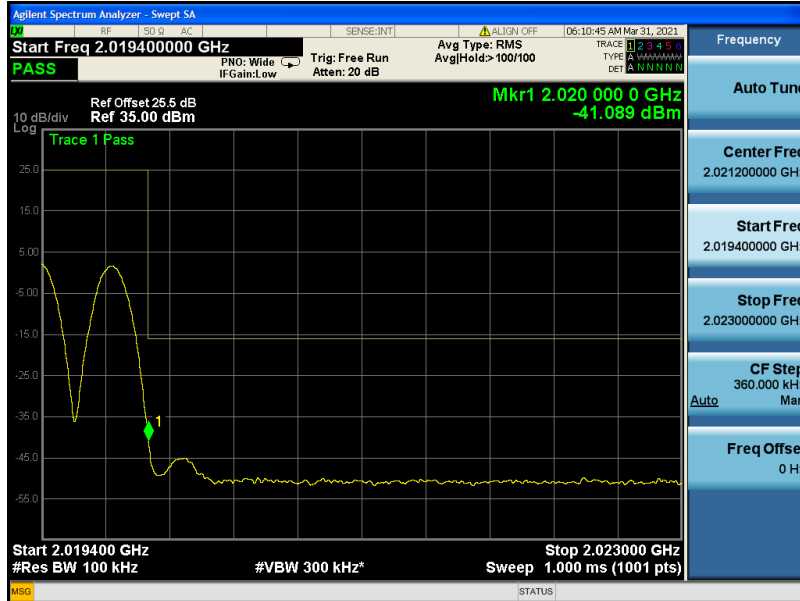


DL_2S_B_GSM_AGC+3_Out-of-band emission

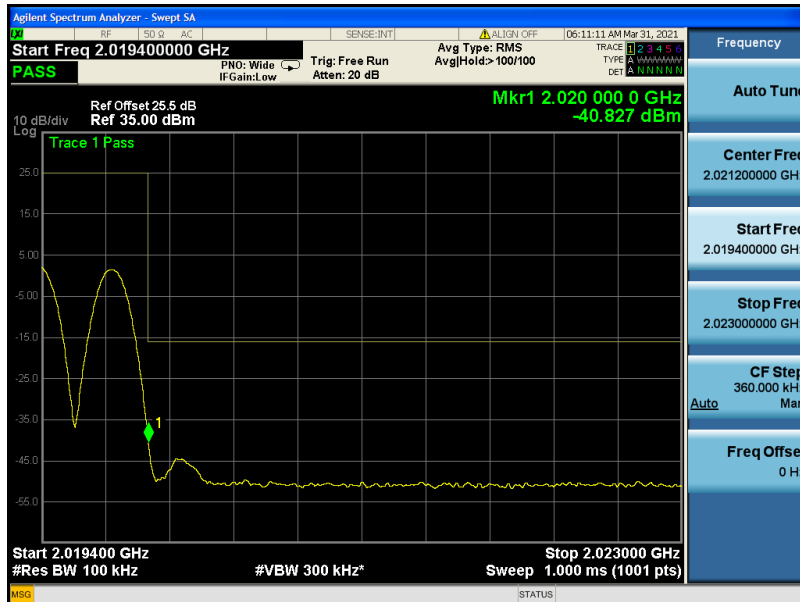


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DL_2S_T_GSM_Pre-AGC_Out-of-band emission

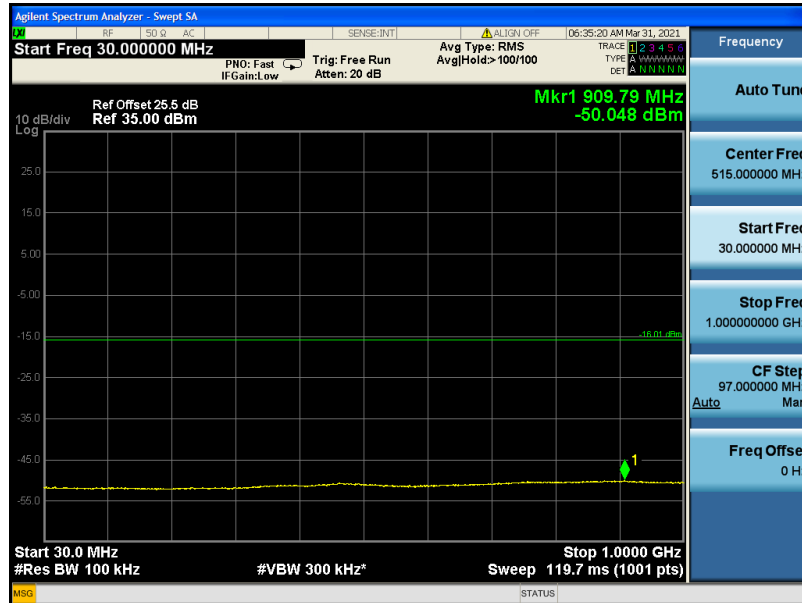


DL_2S_T_GSM_AGC+3_Out-of-band emission

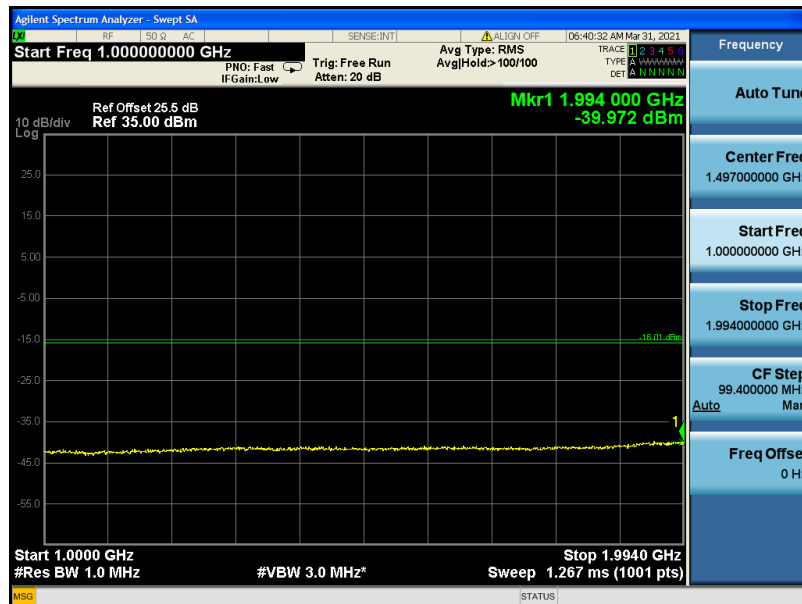


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DL_1S_B_AWGN_Pre-AGC_Spurious emission 1



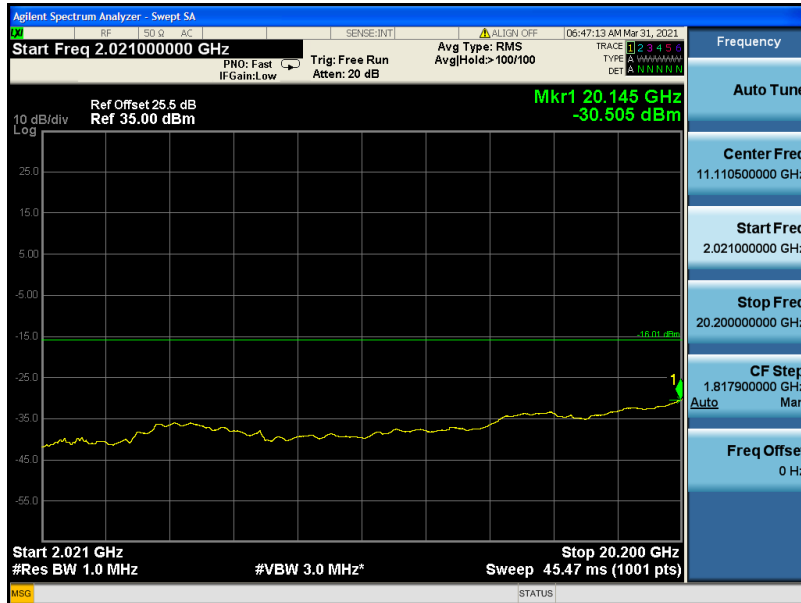
DL_1S_B_AWGN_Pre-AGC_Spurious emission 2



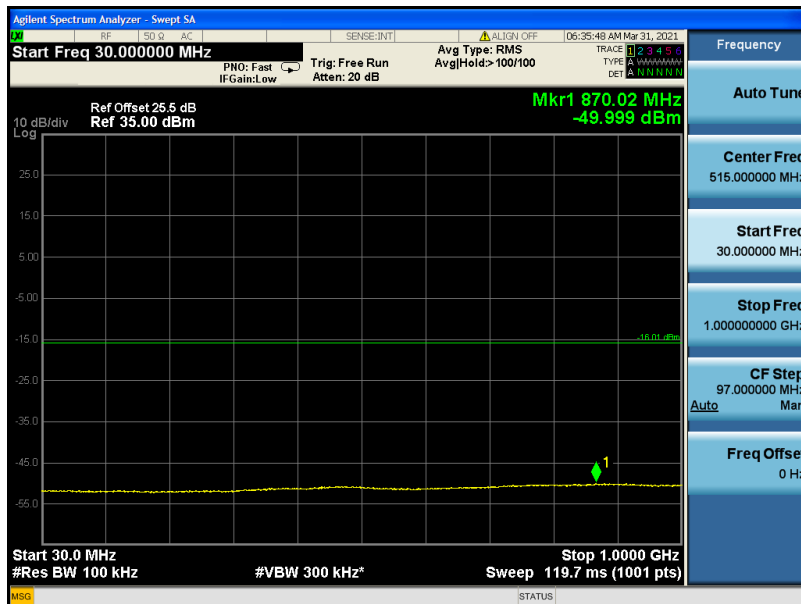
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DL_1S_B_AWGN_Pre-AGC_Spurious emission 3

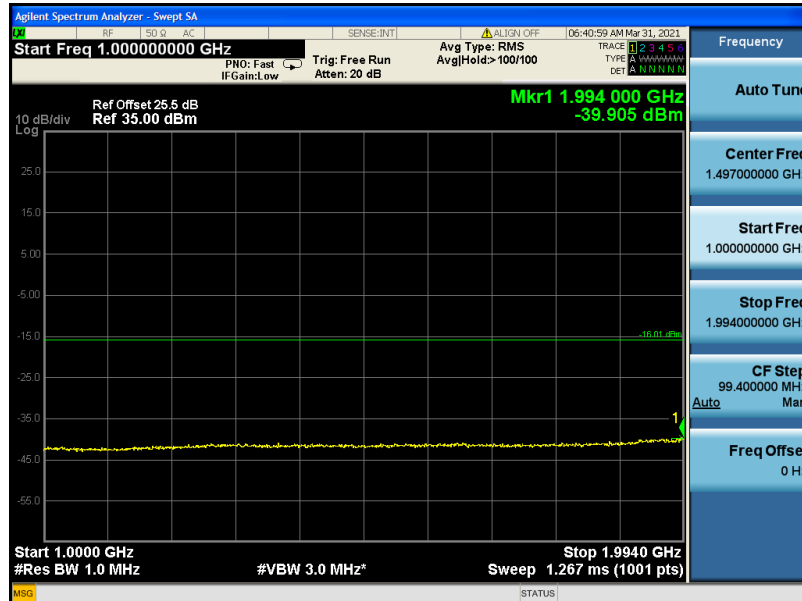


DL_1S_M_AWGN_Pre-AGC_Spurious emission 1

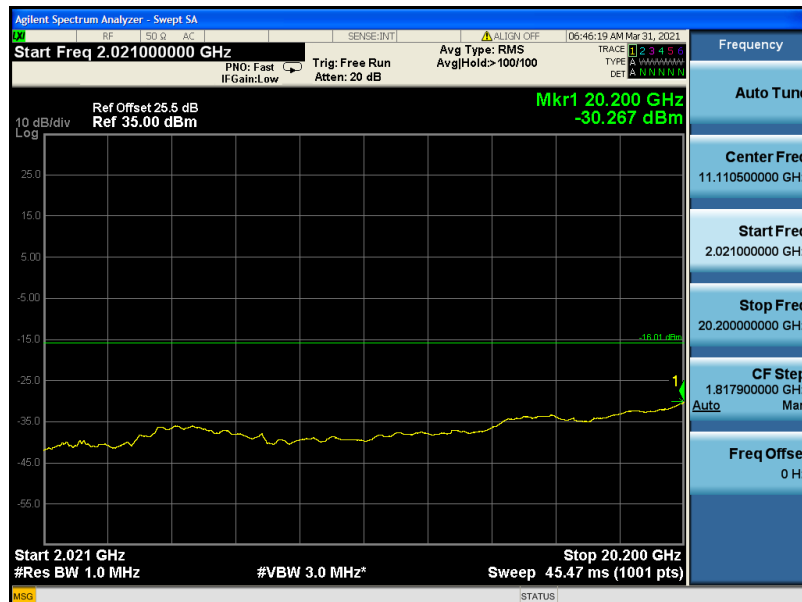


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DL_1S_M_AWGN_Pre-AGC_Spurious emission 2

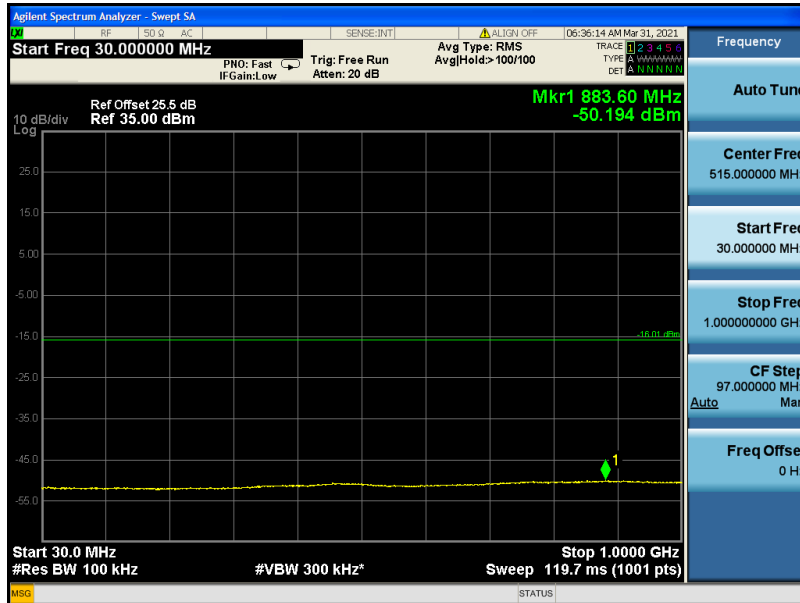


DL_1S_M_AWGN_Pre-AGC_Spurious emission 3

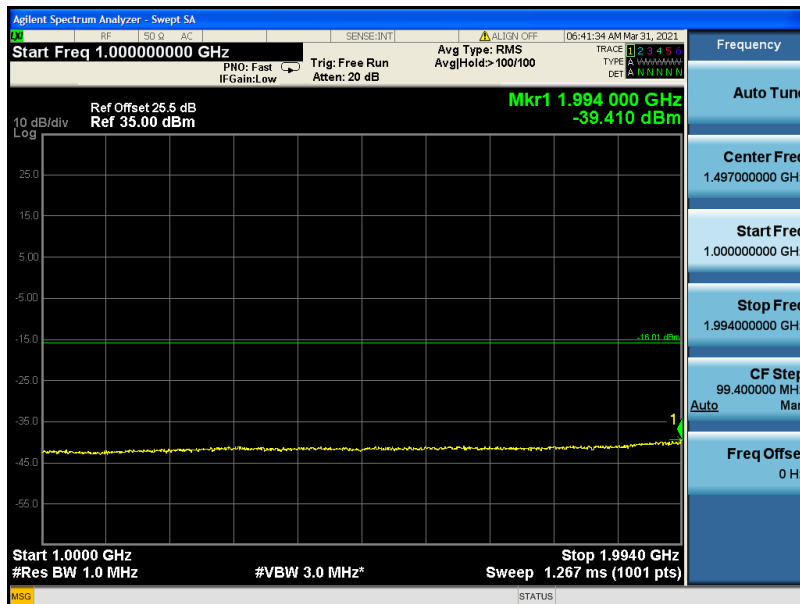


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DL_1S_T_AWGN_Pre-AGC_Spurious emission 1



DL_1S_T_AWGN_Pre-AGC_Spurious emission 2

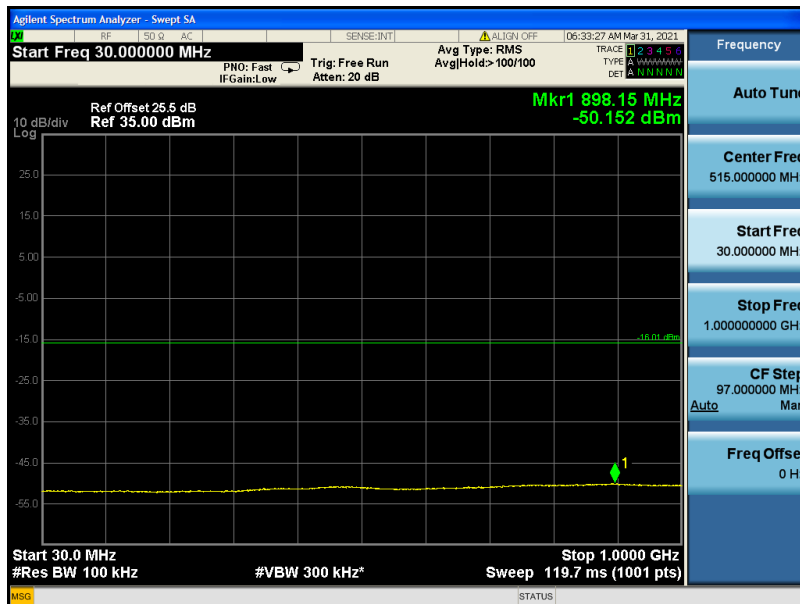


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DL_1S_T_AWGN_Pre-AGC_Spurious emission 3

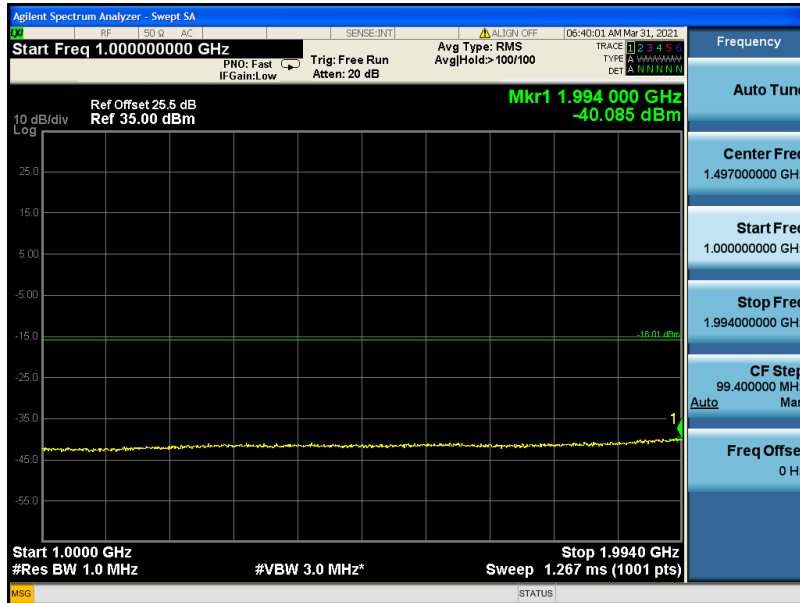


DL_1S_B_GSM_Pre-AGC_Spurious emission 1



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DL_1S_B_GSM_Pre-AGC_Spurious emission 2

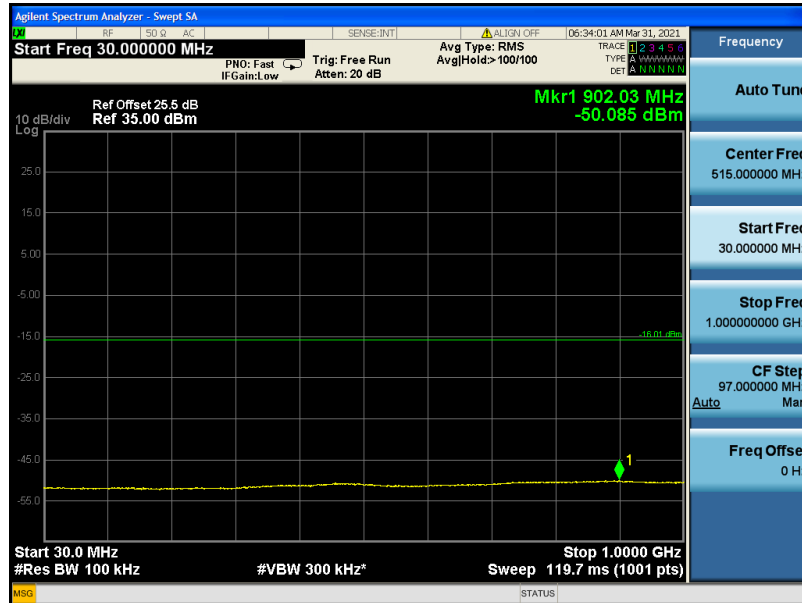


DL_1S_B_GSM_Pre-AGC_Spurious emission 3

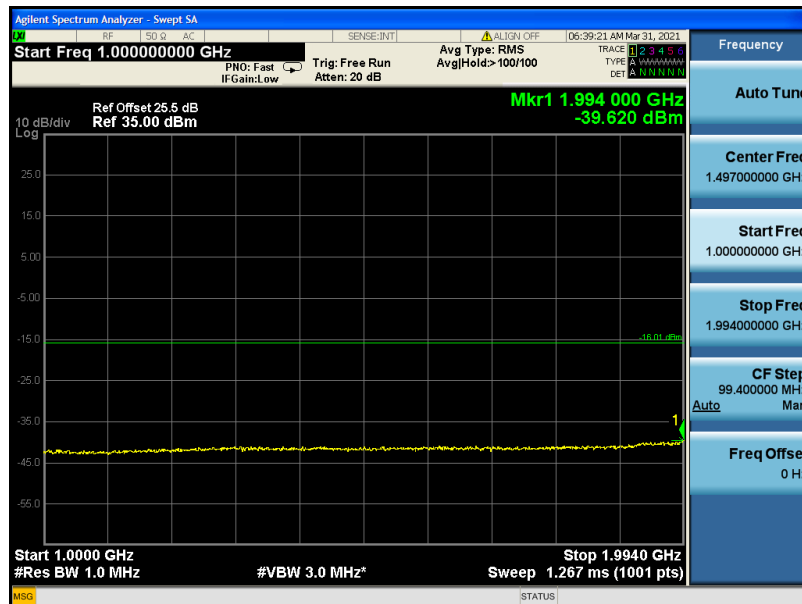


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DL_1S_M_GSM_Pre-AGC_Spurious emission 1

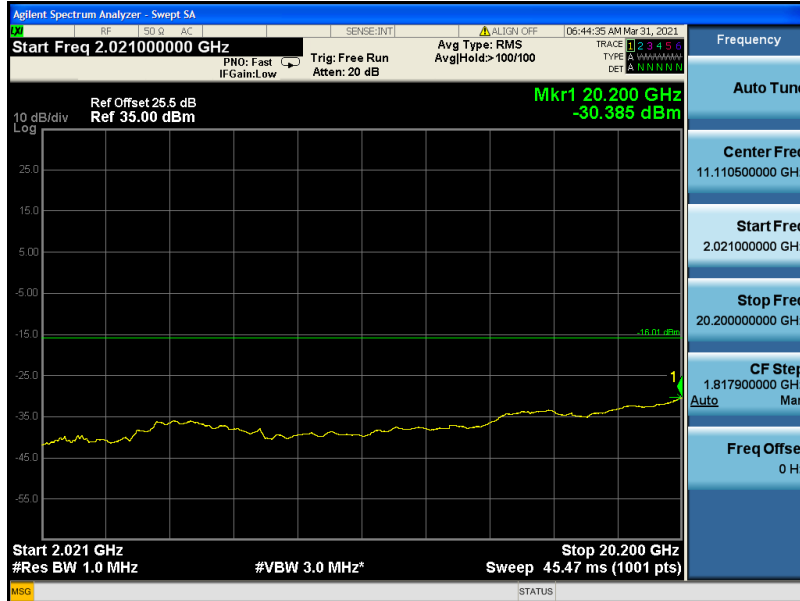


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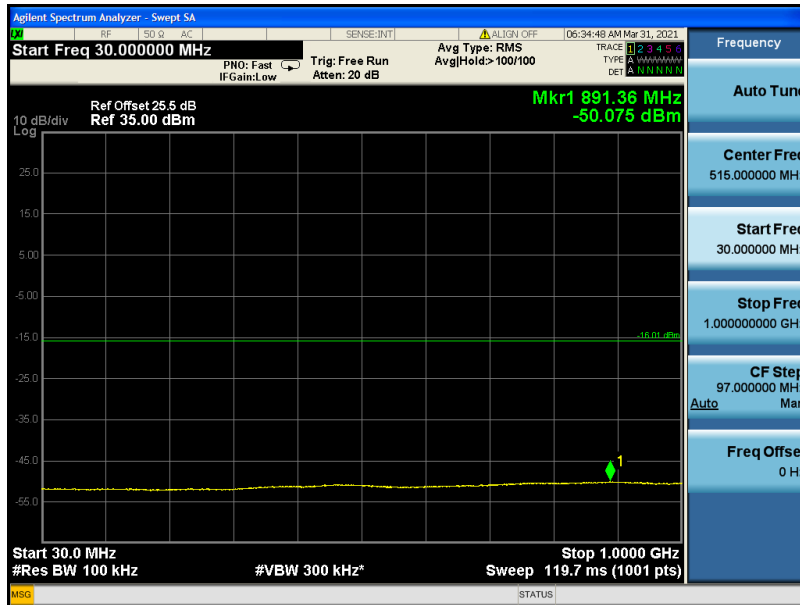


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DL_1S_M_GSM_Pre-AGC_Spurious emission 3

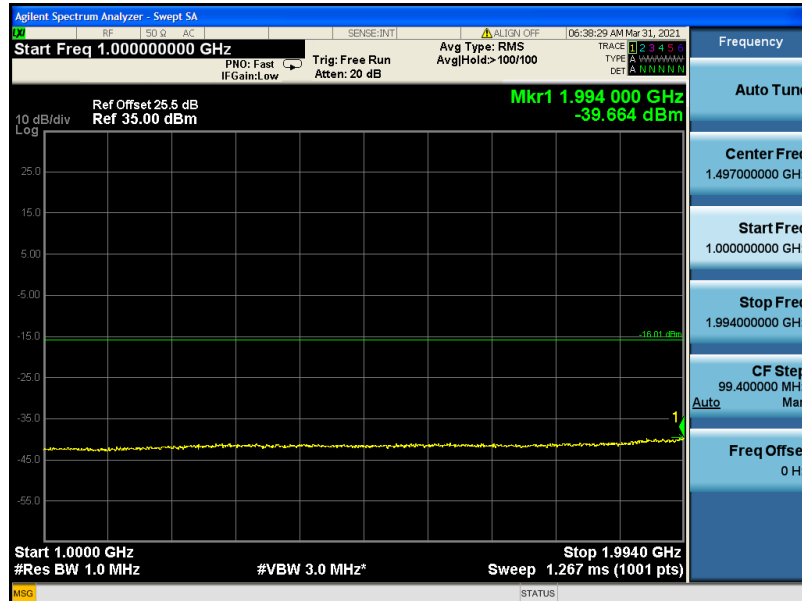


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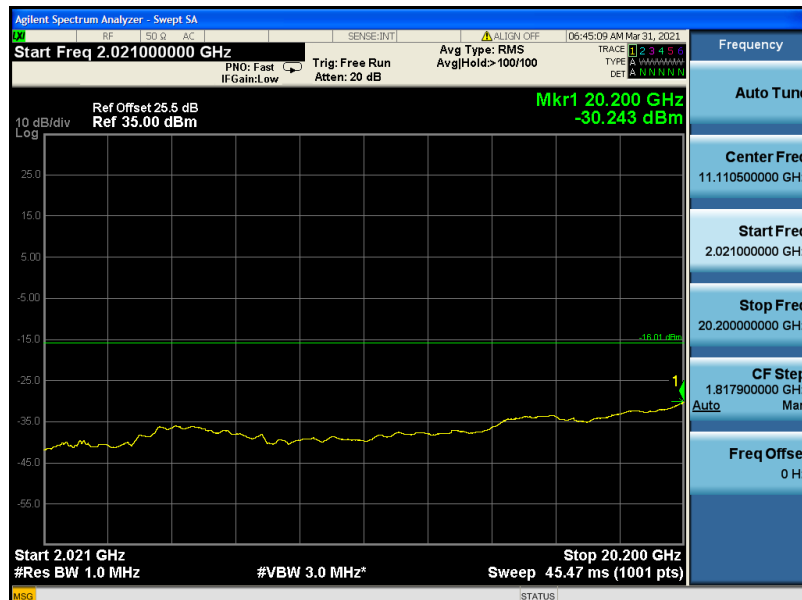


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DL_1S_T_GSM_Pre-AGC_Spurious emission 2



DL_1S_T_GSM_Pre-AGC_Spurious emission 3



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 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

1.6 Frequency Stability

- Note:
1. At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, here the rated supply voltage is DC 48V.
 2. At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.
 3. The frequency stabilities can be maintained within the authorized bands of operation. Meet the requirement.
 4. Frequency stability has been tested using an AWGN test signal and a GSM-TDMA test signal, only the worst-case was recorded in this report.



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| Frequency stability vs temperature | | | | |
|------------------------------------|--------------|-----------------|-----------------|---------|
| Temperature (°C) | Test Conf. | Test data (MHz) | Tolerance (ppm) | Verdict |
| 50 | DL_1S_M_AWGN | 2007.516276 | -0.04 | PASS |
| 40 | | 2007.516237 | -0.06 | PASS |
| 30 | | 2007.516398 | 0.02 | PASS |
| 20 | | 2007.516354 | Reference | PASS |
| 10 | | 2007.516163 | -0.09 | PASS |
| 0 | | 2007.516324 | -0.01 | PASS |
| -10 | | 2007.516286 | -0.03 | PASS |
| -20 | | 2007.516263 | -0.05 | PASS |
| -30 | | 2007.516274 | -0.04 | PASS |

| Frequency stability vs voltage | | | | |
|--------------------------------|--------------|-----------------|-----------------|---------|
| Voltage (V) | Test Conf. | Test data (MHz) | Tolerance (ppm) | Verdict |
| DC 40.8 | DL_1S_M_AWGN | 2007.516382 | 0.01 | PASS |
| DC 48 | | 2007.516354 | Reference | PASS |
| DC 55.2 | | 2007.516212 | -0.07 | PASS |



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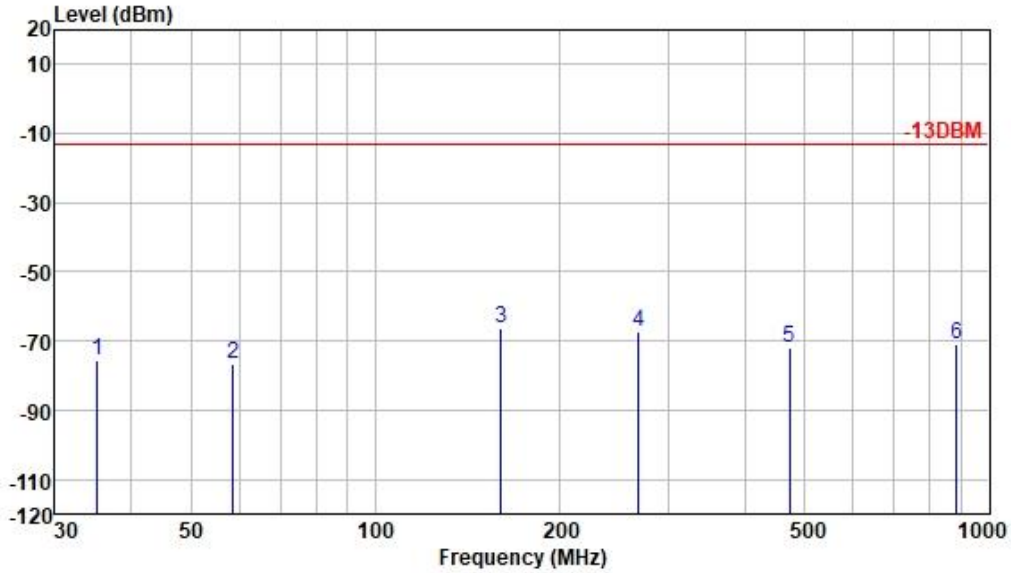
1.7 Radiated spurious emissions

- Note:
1. The tested max conducted power for single antenna port is 20.21dBm. the 2x2 MIMO total power is 20.21dBm+20.21dBm= 0.2100W.
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
Here,
 $P=0.2100W$,
So the limit =
 $P(\text{dBm}) - [43 + 10 \log(0.2100W)] = -13\text{dBm}$
 2. Based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.53(h)(1) and 27.53(h)(3) apply.
 3. The radiated test performed at bottom / middle / top channel, the data with more than 20db margin, therefore, only the worst-case middle channel test data was recorded in the report.
 4. The disturbance 9kHz to 30MHz was very low and 20dB below the limit, therefore, the data was not recorded in the report.



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DL_1S_M_AWGN_Horizontal_30MHz~1GHz

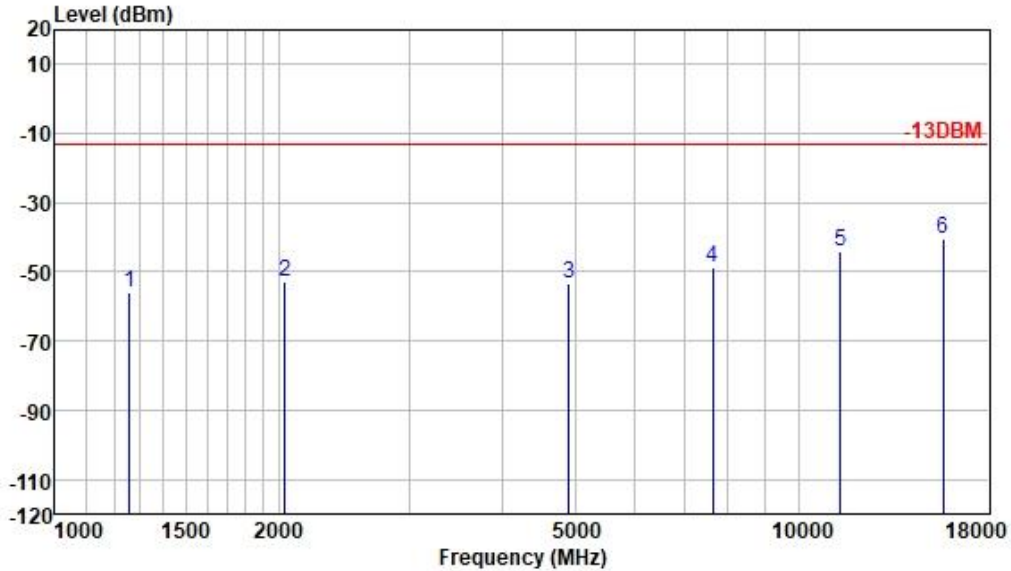


| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|-------------|------------|------------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 35.13 | -78.35 | 2.85 | -75.50 | -12.99 | HORIZONTAL |
| 2 | 58.61 | -74.24 | -2.41 | -76.65 | -12.99 | HORIZONTAL |
| 3 | 160.35 | -60.00 | -6.44 | -66.44 | -12.99 | HORIZONTAL |
| 4 | 268.49 | -63.97 | -3.18 | -67.15 | -12.99 | HORIZONTAL |
| 5 | 472.18 | -72.30 | 0.33 | -71.97 | -12.99 | HORIZONTAL |
| 6 | 884.50 | -79.54 | 8.60 | -70.94 | -12.99 | HORIZONTAL |



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DL_1S_M_AWGN_Horizontal_above 1GHz

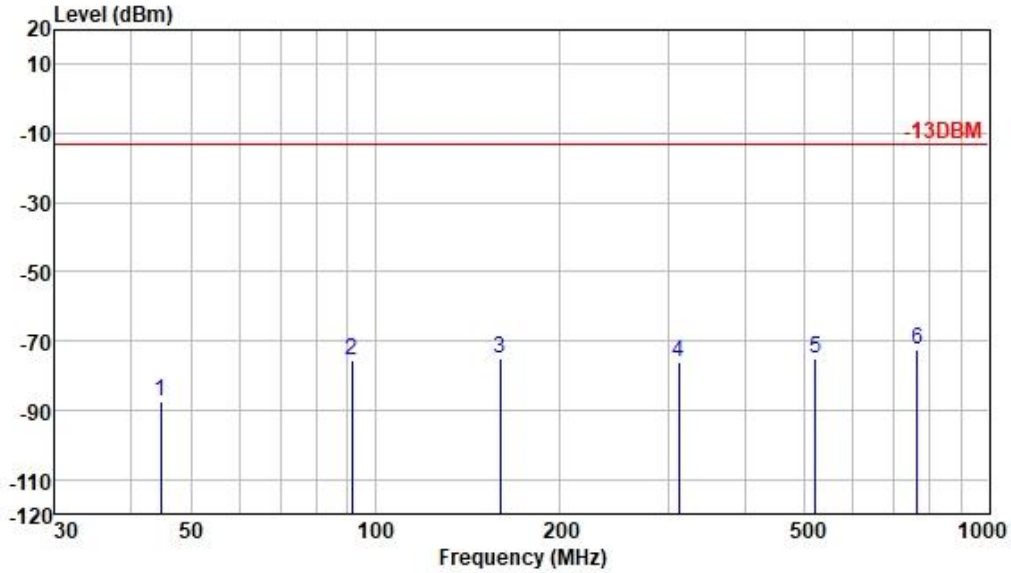


| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|----------|------------|-------------------|-------------|------------|------------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 1260.15 | -60.19 | 4.01 | -56.18 | -12.99 | HORIZONTAL |
| 2 | 2036.09 | -62.55 | 9.79 | -52.76 | -12.99 | HORIZONTAL |
| 3 | 4902.30 | -62.95 | 9.76 | -53.19 | -12.99 | HORIZONTAL |
| 4 | 7650.89 | -63.66 | 15.12 | -48.54 | -12.99 | HORIZONTAL |
| 5 | 11368.00 | -66.10 | 21.79 | -44.31 | -12.99 | HORIZONTAL |
| 6 | 15622.99 | -62.11 | 21.88 | -40.23 | -12.99 | HORIZONTAL |



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DL_1S_M_AWGN_Vertical_30MHz~1GHz

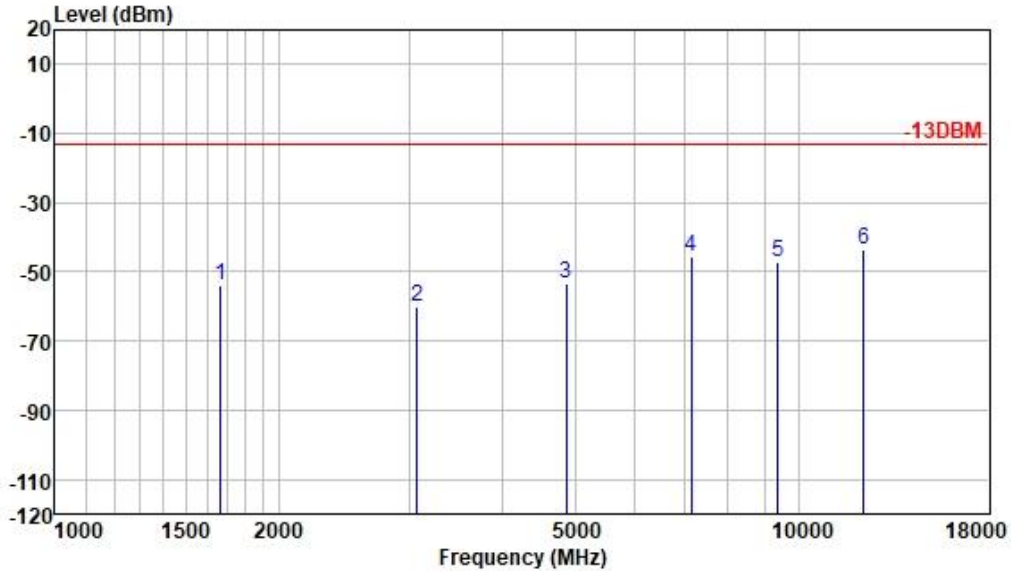


| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|-------------|------------|-----------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 44.59 | -75.02 | -12.53 | -87.55 | -12.99 | VERTICAL |
| 2 | 91.49 | -68.96 | -6.87 | -75.83 | -12.99 | VERTICAL |
| 3 | 159.78 | -71.14 | -3.94 | -75.08 | -12.99 | VERTICAL |
| 4 | 312.18 | -73.37 | -2.61 | -75.98 | -12.99 | VERTICAL |
| 5 | 520.89 | -76.19 | 1.12 | -75.07 | -12.99 | VERTICAL |
| 6 | 763.38 | -78.98 | 6.73 | -72.25 | -12.99 | VERTICAL |



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DL_1S_M_AWGN_Vertical_above 1GHz



| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|----------|------------|-------------------|-------------|------------|-----------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 1667.95 | -59.27 | 5.39 | -53.88 | -12.99 | VERTICAL |
| 2 | 3069.35 | -62.86 | 2.83 | -60.03 | -12.99 | VERTICAL |
| 3 | 4859.98 | -62.49 | 9.30 | -53.19 | -12.99 | VERTICAL |
| 4 | 7158.81 | -65.01 | 19.35 | -45.66 | -12.99 | VERTICAL |
| 5 | 9366.58 | -64.60 | 17.32 | -47.28 | -12.99 | VERTICAL |
| 6 | 12219.85 | -66.06 | 22.43 | -43.63 | -12.99 | VERTICAL |



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2 AWS-4 (only for downlink: 2180-2200MHz)

2.1 AGC threshold level

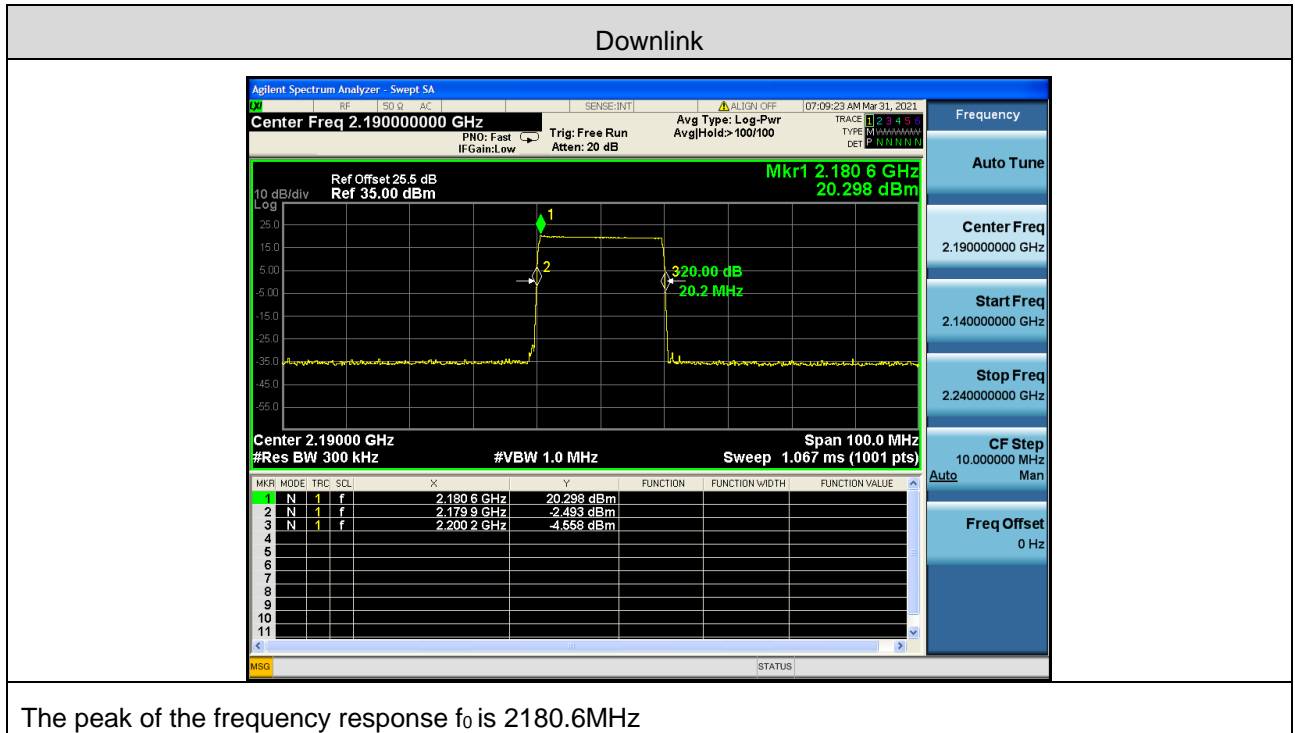
| Test Conf. | AGC Threshold level |
|--------------|---------------------|
| DL_1S_M_AWGN | 0.00dBm |
| DL_1S_M_GSM | 0.20dBm |



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2.2 Out-of-band rejection

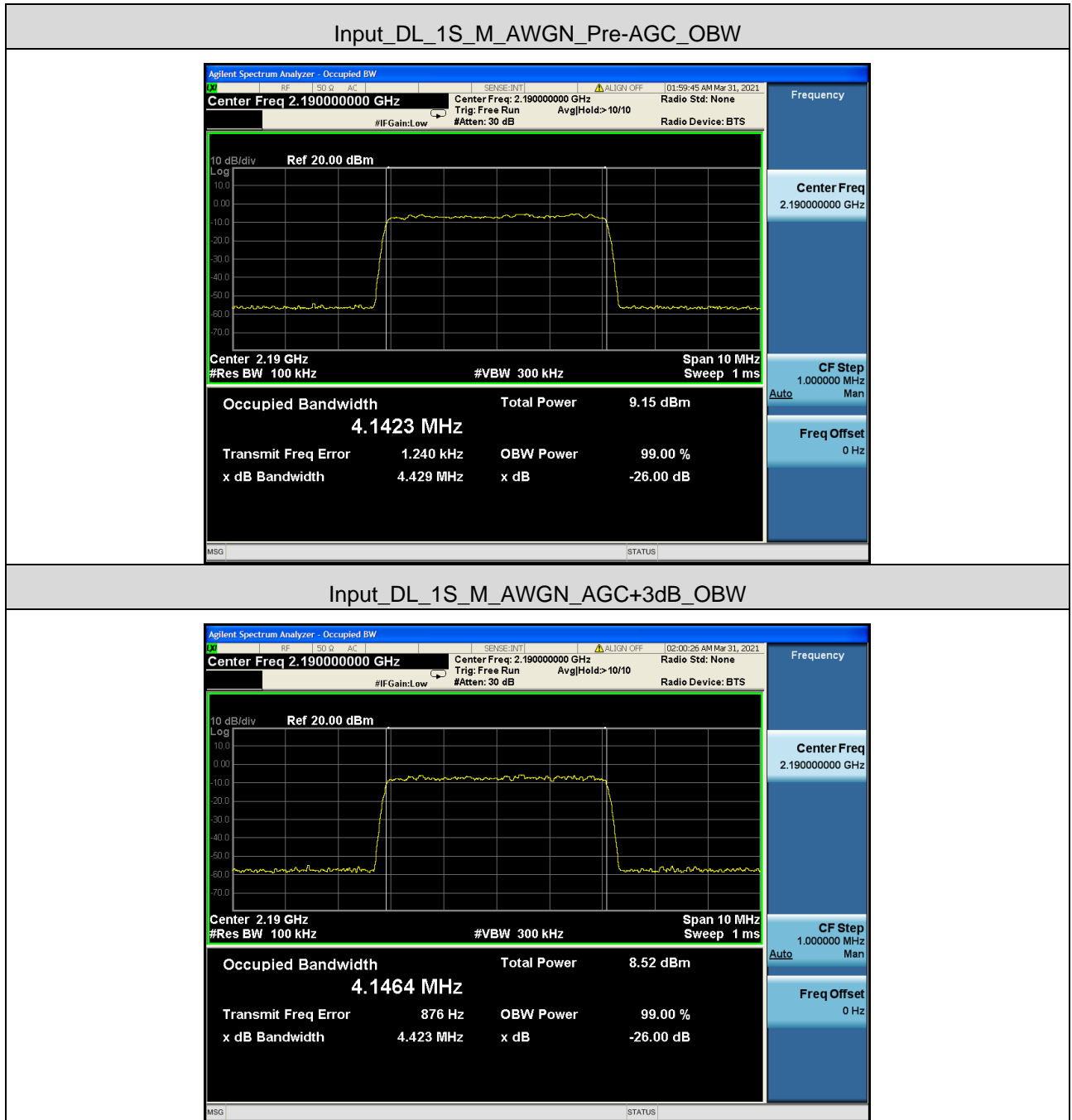


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 Guangzhou Branch Technical Services Co., Ltd. EEC Laboratory | 中国·广州·经济技术开发区科学城科珠路198号 | 邮编: 510663 | t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

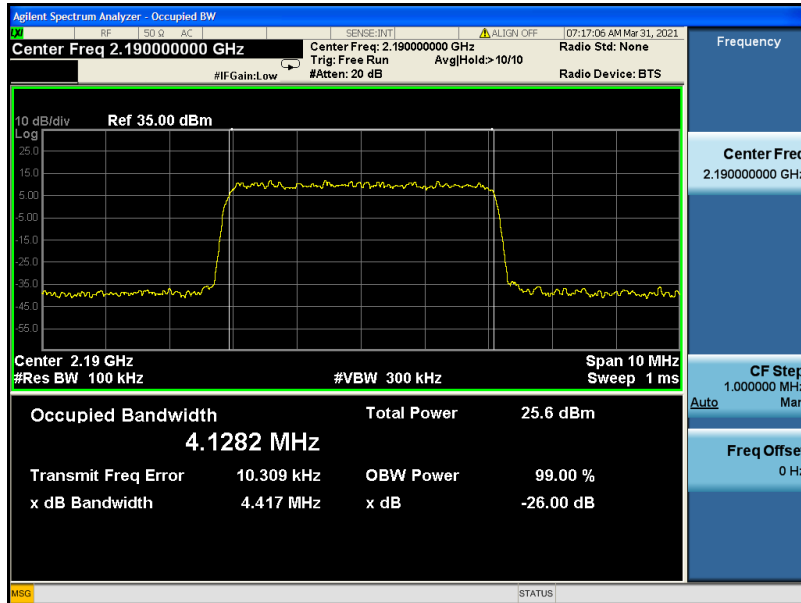
2.3 Input-versus-output signal comparison



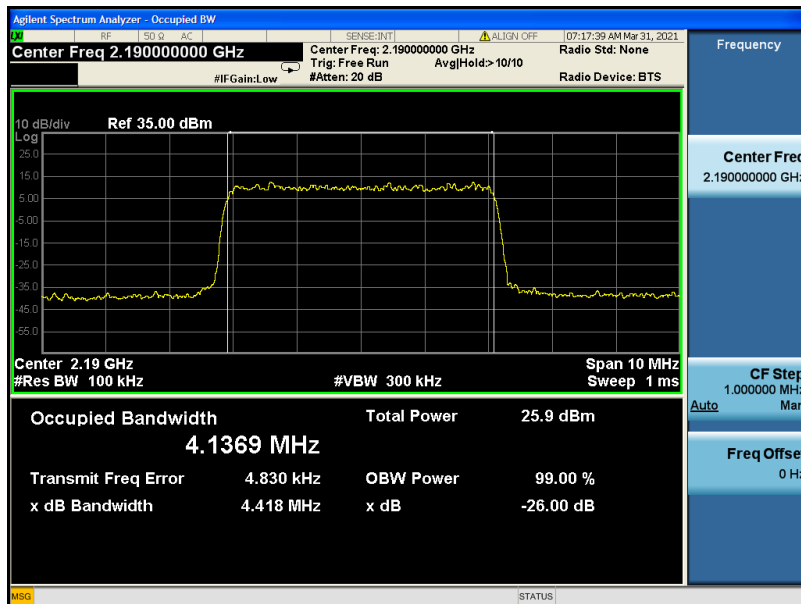
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Output_DL_1S_M_AWGN_Pre-AGC_OBW

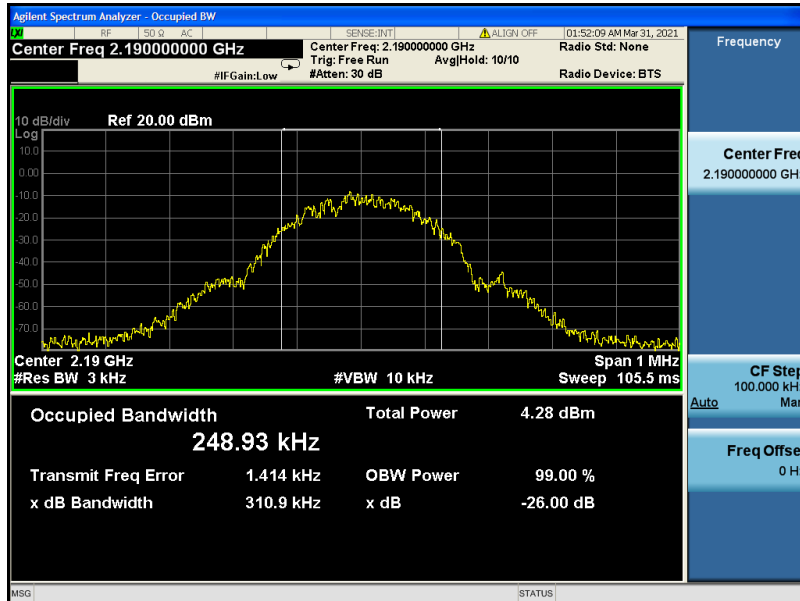


Output_DL_1S_M_AWGN_AGC+3dB_OBW

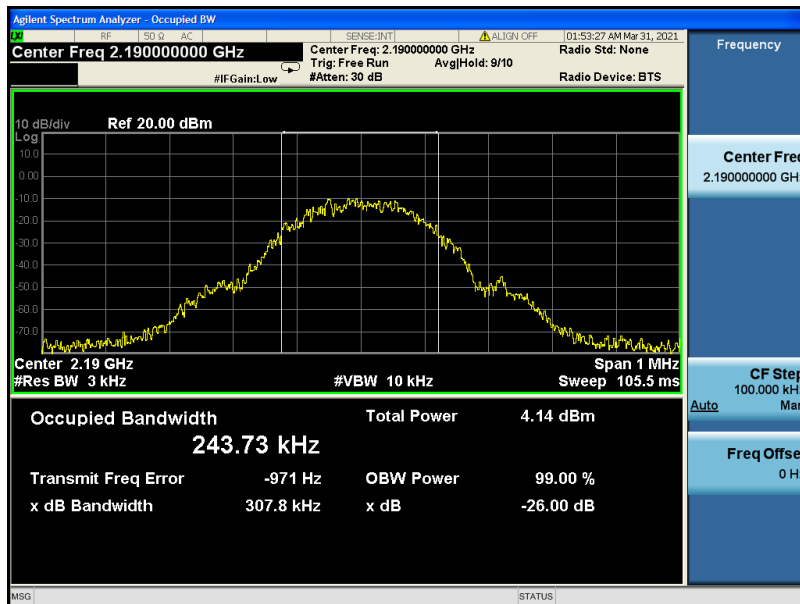


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Input_DL_1S_M_GSM_Pre-AGC_OBW

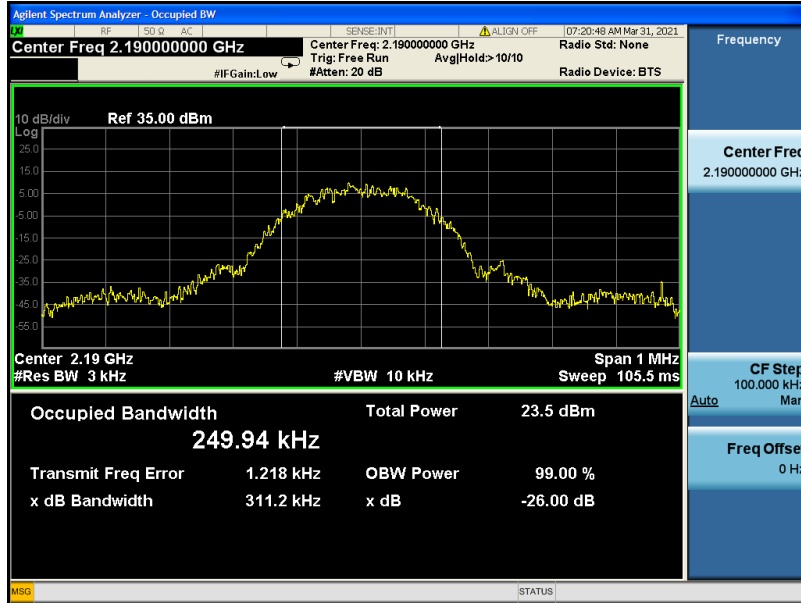


Input_DL_1S_M_GSM_AGC+3dB_OBW

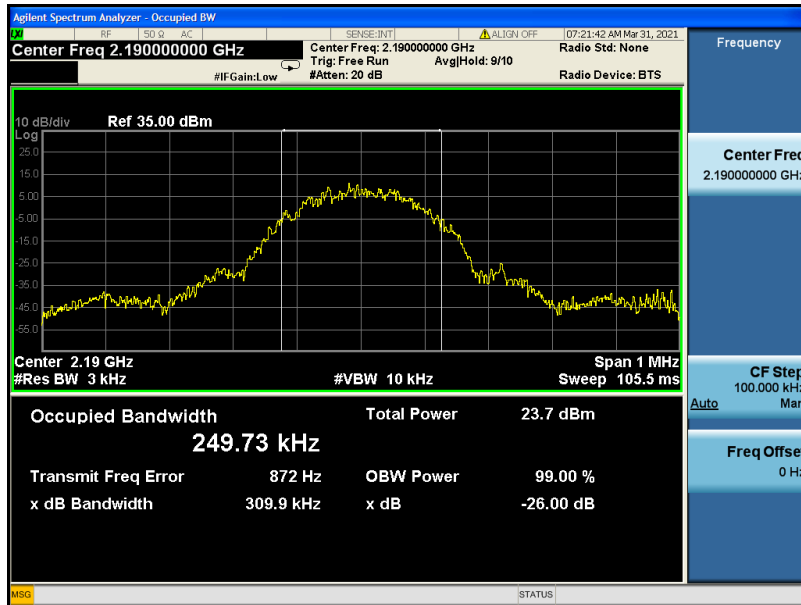


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Output_DL_1S_M_GSM_Pre-AGC_OBW



Output_DL_1S_M_GSM_AGC+3dB_OBW



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

Application No.: GZCR2103000022AT

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FCC ID: OJFDLRU1719235

Remark:

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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2.4 Mean output power and amplifier/booster gain

| Test Conf. | Test Freq. f ₀ (MHz) | Signal Level | Input Power (dBm) | Output Power (dBm) | Gain (dB) | Verdict |
|------------|------------------------------------|--------------|----------------------|-----------------------|--------------|---------|
| DL_1S_AWGN | 2180.6 | Pre-AGC | -0.10 | 20.34 | 20.44 | PASS |
| | | AGC+3dB | 2.90 | 20.15 | / | PASS |
| DL_1S_GSM | 2180.6 | Pre-AGC | -0.30 | 20.31 | 20.61 | PASS |
| | | AGC+3dB | 2.70 | 20.26 | / | PASS |

Remark:

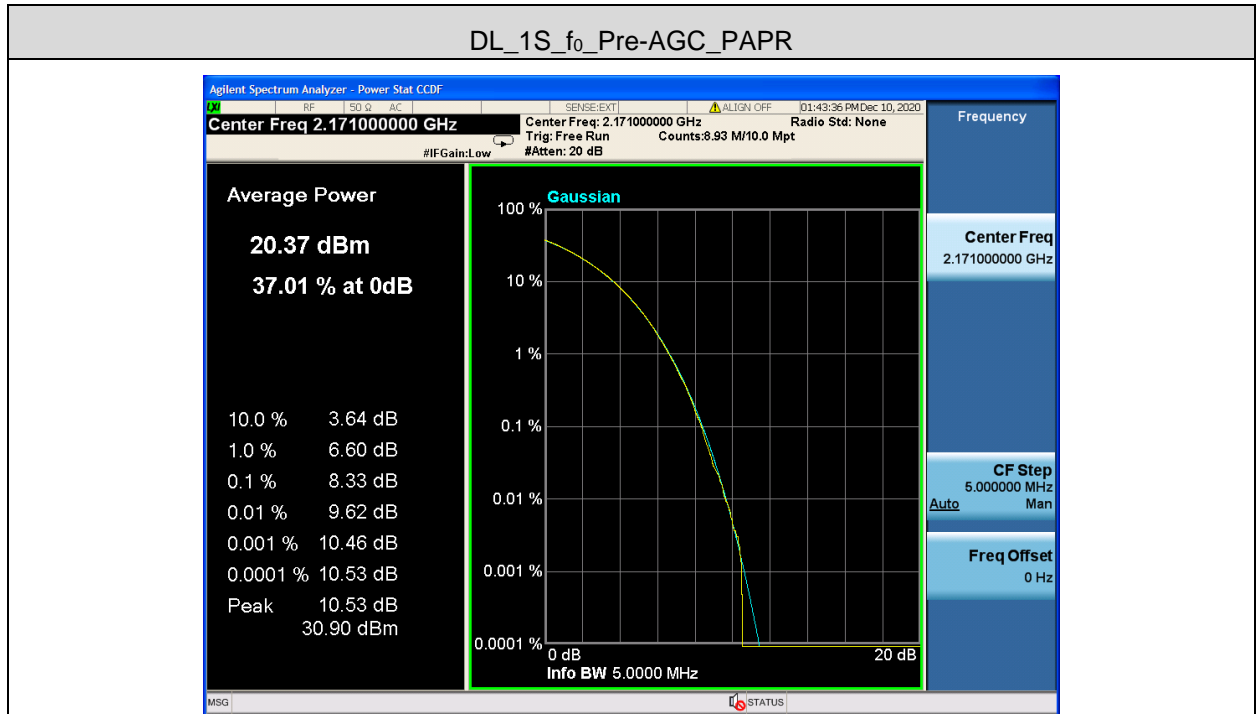
According to the declaration from the applicant, the antenna gain should not exceed 12.5dBi, the Directional gain = G(ANT) + 10 log (NANT) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

The total maximum EIRP for the EUT is (20.34dBm+20.34dBm) +15.5dBi=38.92dBm (7.80W) which don't exceed the required EIRP limit (1640W/MHz)



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| Test Conf. | Test Freq. fo (MHz) | Signal Level | PAPR (dB) | Limit (dB) | Verdict |
|------------|---------------------|--------------|-----------|------------|---------|
| DL_1S_AWGN | 2180.6 | Pre-AGC | 8.3 | 13 | PASS |



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2.5 Out-of-band/out-of-block (including intermodulation) emissions and spurious emissions

Note: The tested max conducted power for single antenna port is 20.34dBm, 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

Here,

$$P=20.34\text{dBm}=0.1081\text{W}.$$

So the limit =

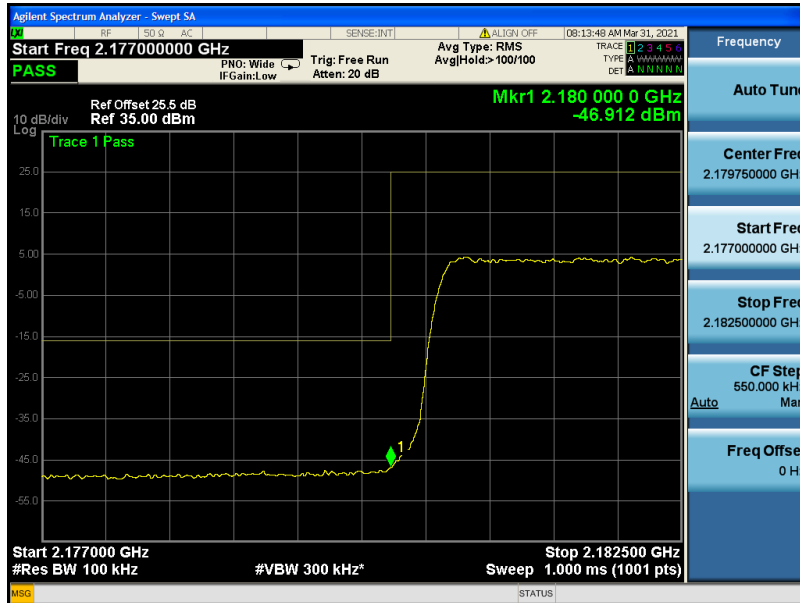
$$P(\text{dBm})-[43 + 10 \log(0.1081\text{W})] = -13\text{dBm}$$

The EUT supports 2x2 MIMO and the emissions were measured at one of output port, so the limit line was set to -16.01dBm in following test plots in order to determine the test result conveniently.

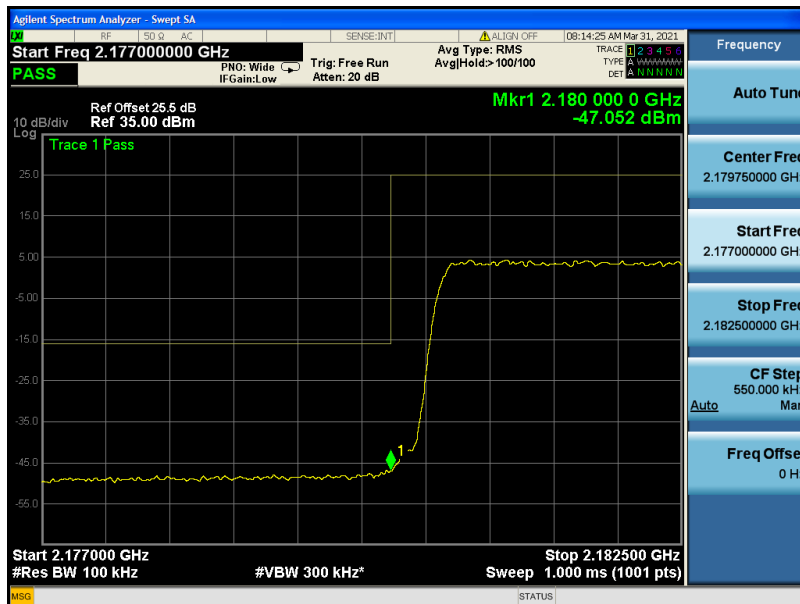


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DL_1S_B_AWGN_Pre-AGC_Out-of-band emission

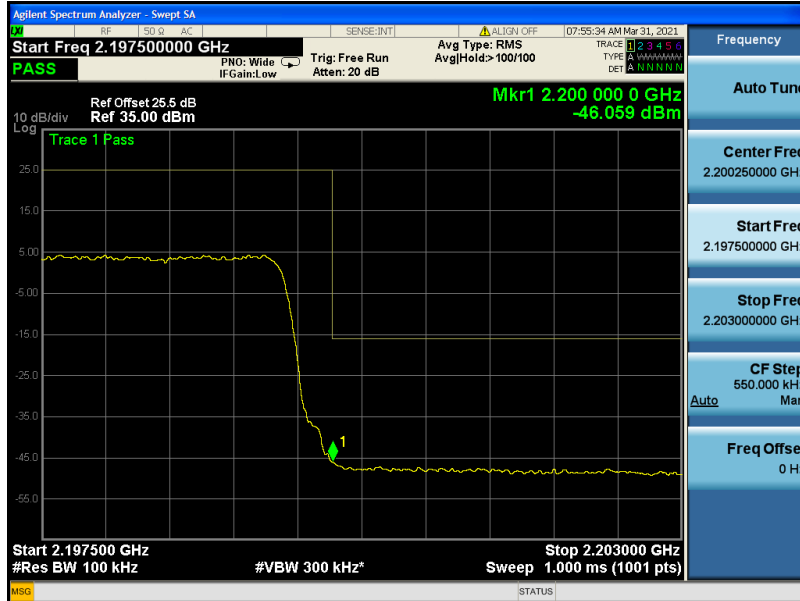


DL_1S_B_AWGN_AGC+3_Out-of-band emission

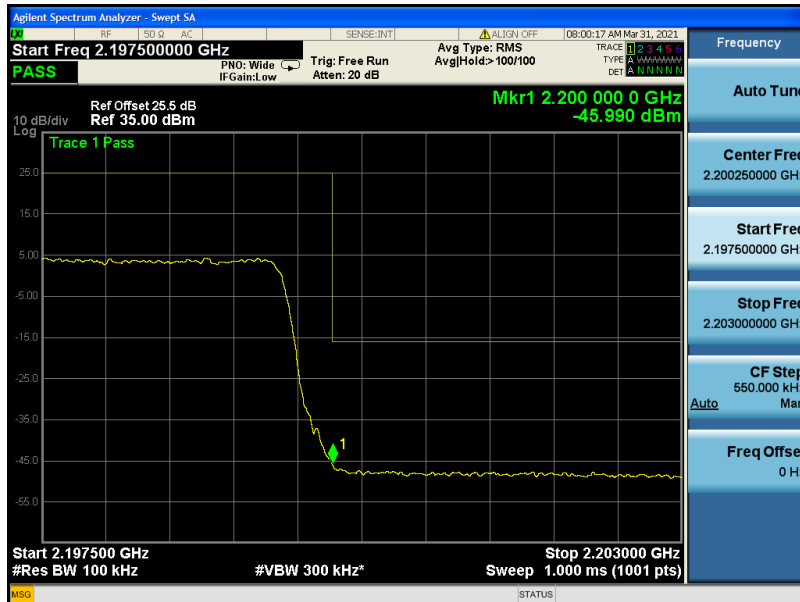


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DL_1S_T_AWGN_Pre-AGC_Out-of-band emission

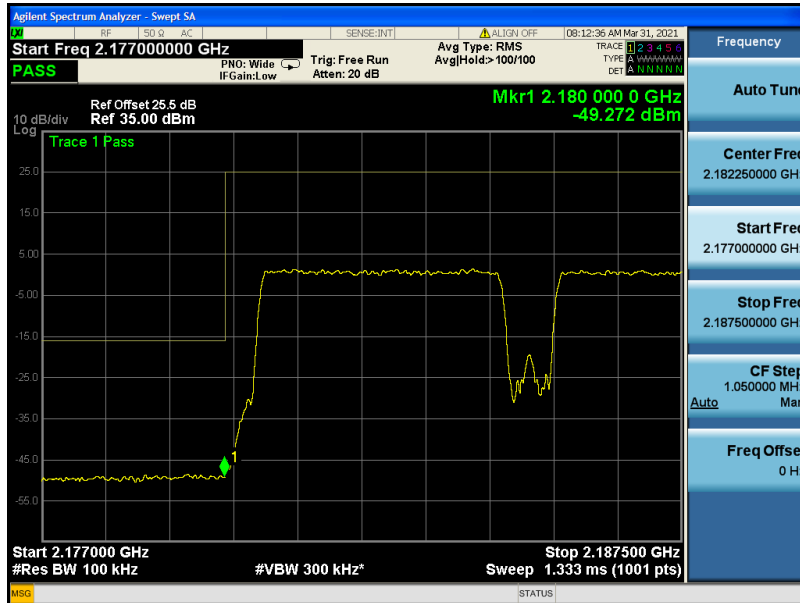


DL_1S_T_AWGN_AGC+3_Out-of-band emission

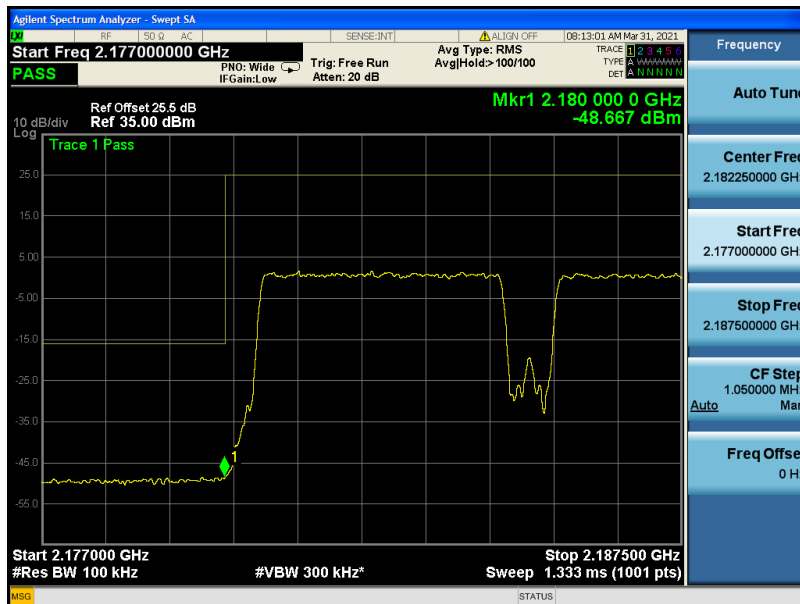


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DL_2S_B_AWGN_Pre-AGC_Out-of-band emission

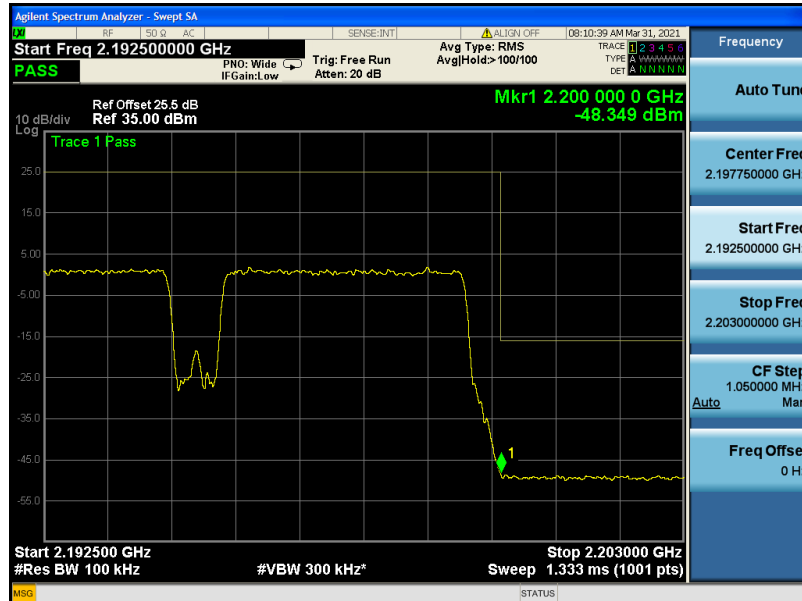


DL_2S_B_AWGN_AGC+3_Out-of-band emission



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DL_2S_T_AWGN_Pre-AGC_Out-of-band emission

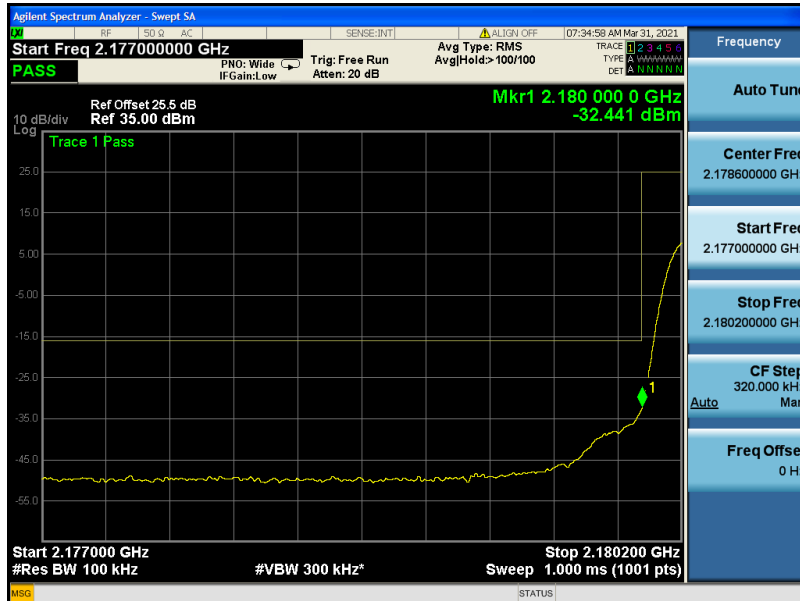


DL_2S_T_AWGN_AGC+3_Out-of-band emission

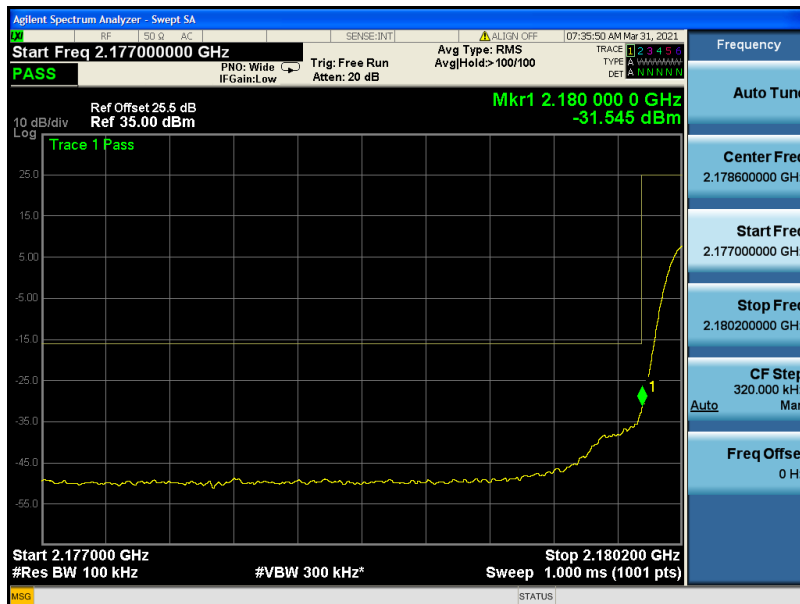


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DL_1S_B_GSM_Pre-AGC_Out-of-band emission

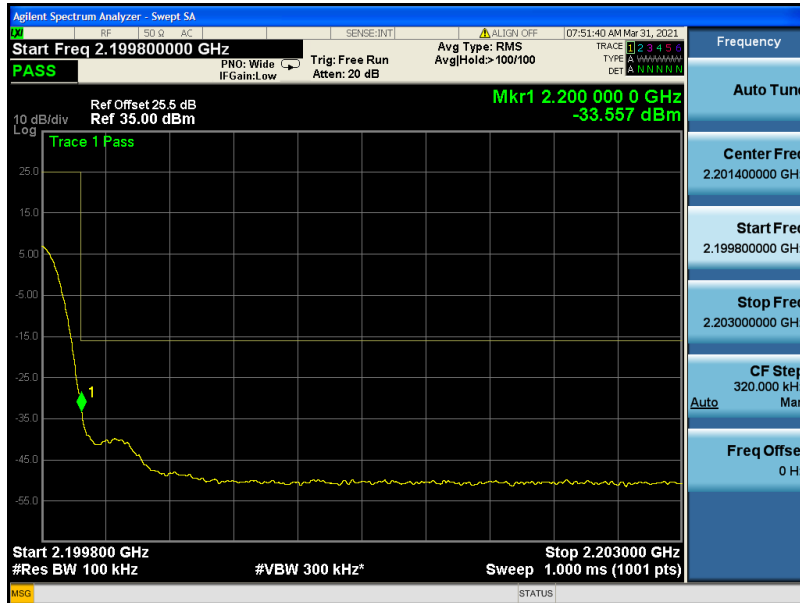


DL_1S_B_GSM_AGC+3_Out-of-band emission

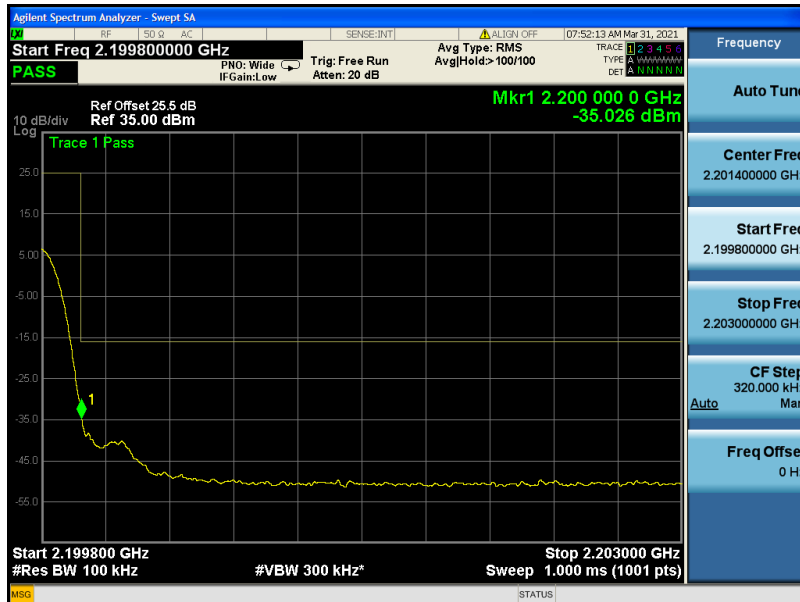


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DL_1S_T_GSM_Pre-AGC_Out-of-band emission

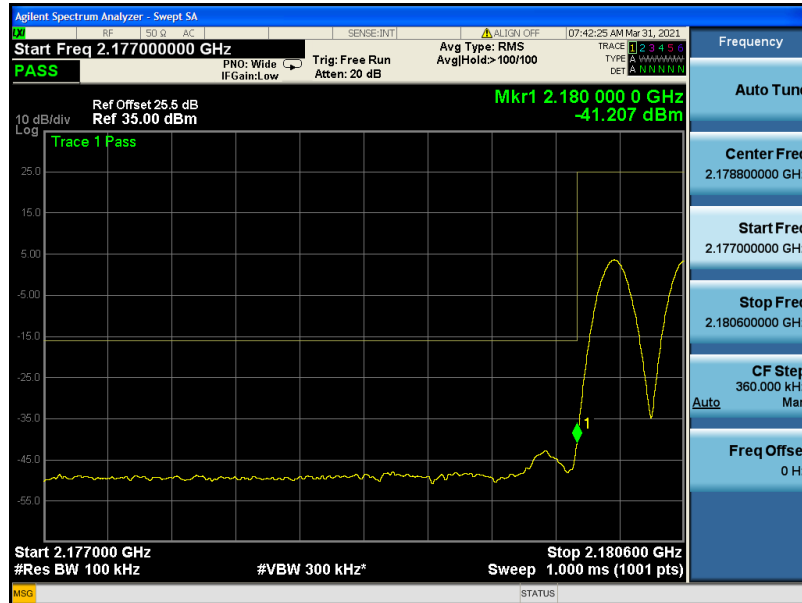


DL_1S_T_GSM_AGC+3_Out-of-band emission

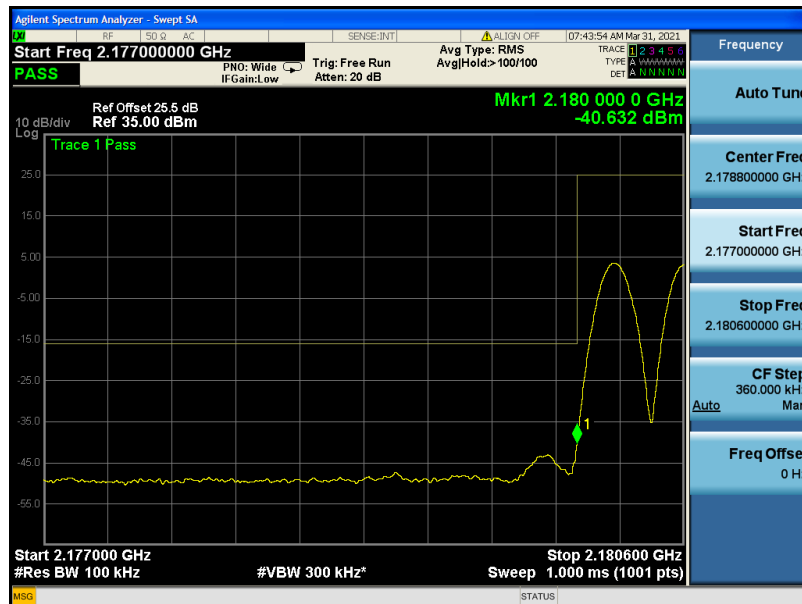


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DL_2S_B_GSM_Pre-AGC_Out-of-band emission

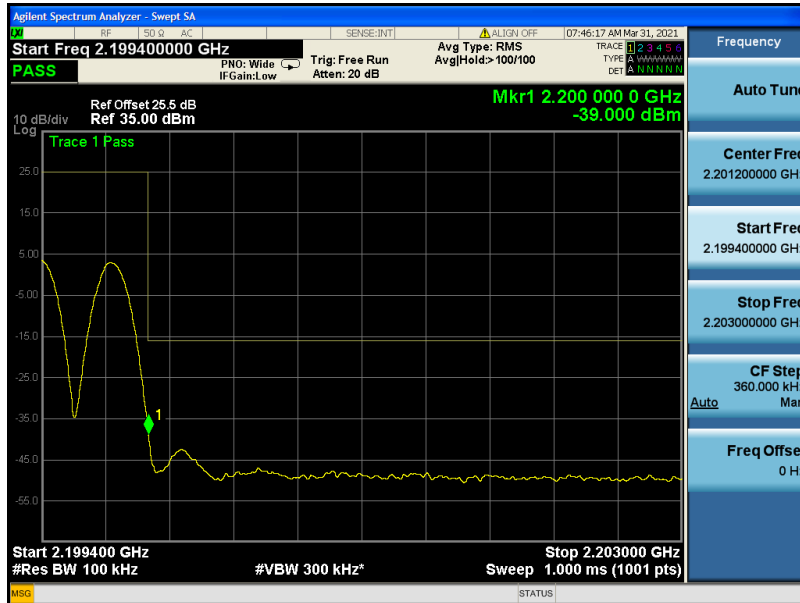


DL_2S_B_GSM_AGC+3_Out-of-band emission

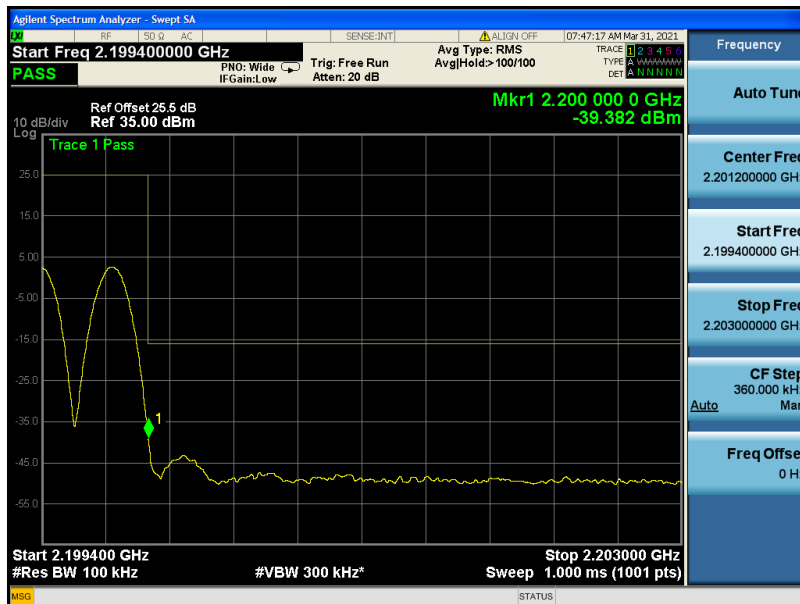


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DL_2S_T_GSM_Pre-AGC_Out-of-band emission

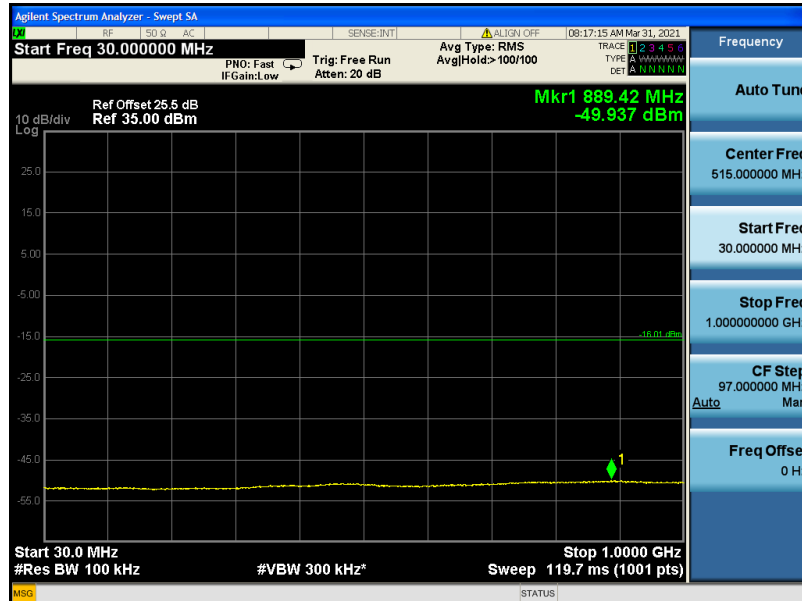


DL_2S_T_GSM_AGC+3_Out-of-band emission

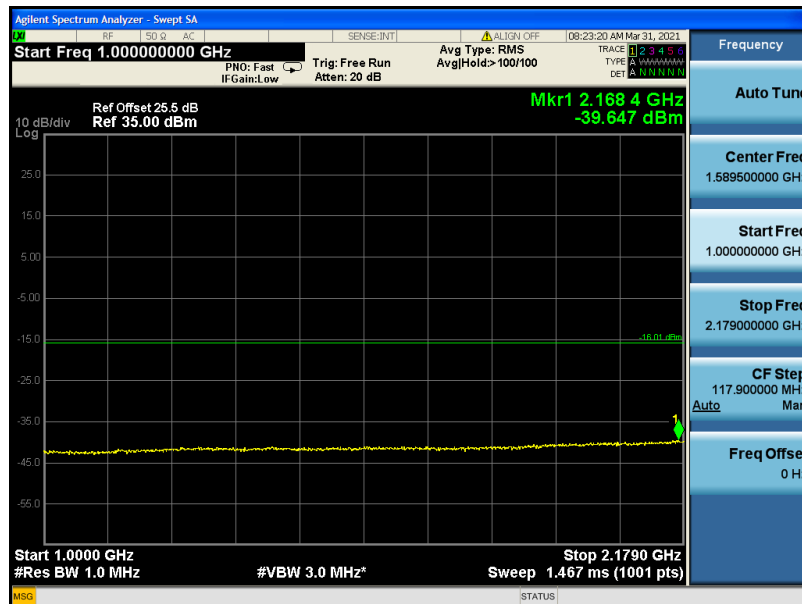


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DL_1S_B_AWGN_Pre-AGC_Spurious emission 1

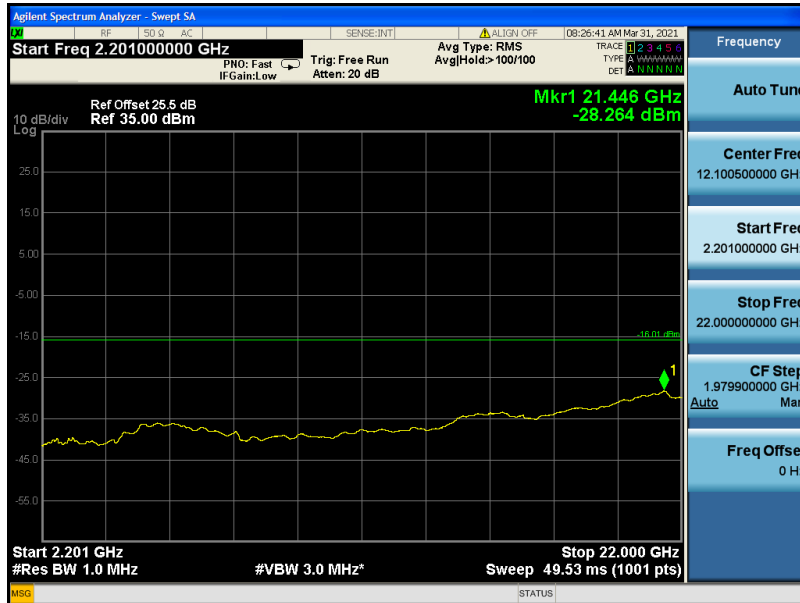


DL_1S_B_AWGN_Pre-AGC_Spurious emission 2

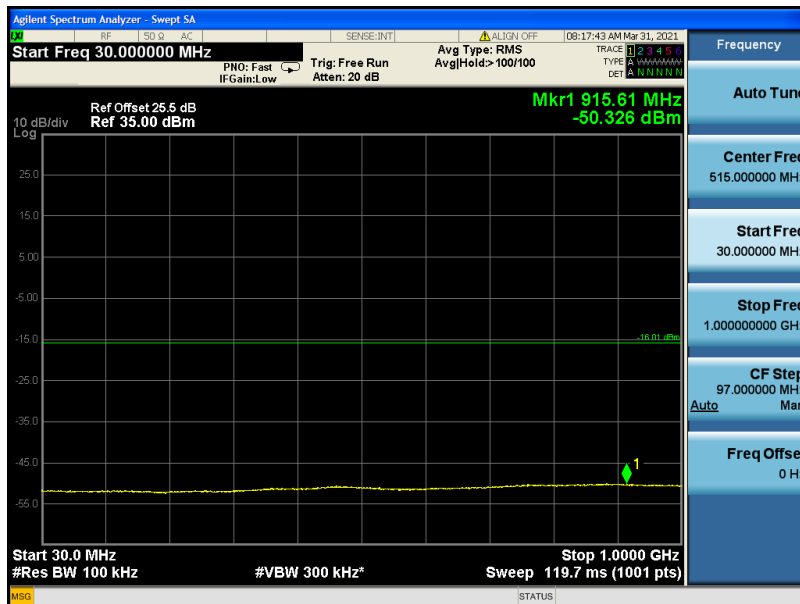


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DL_1S_B_AWGN_Pre-AGC_Spurious emission 3

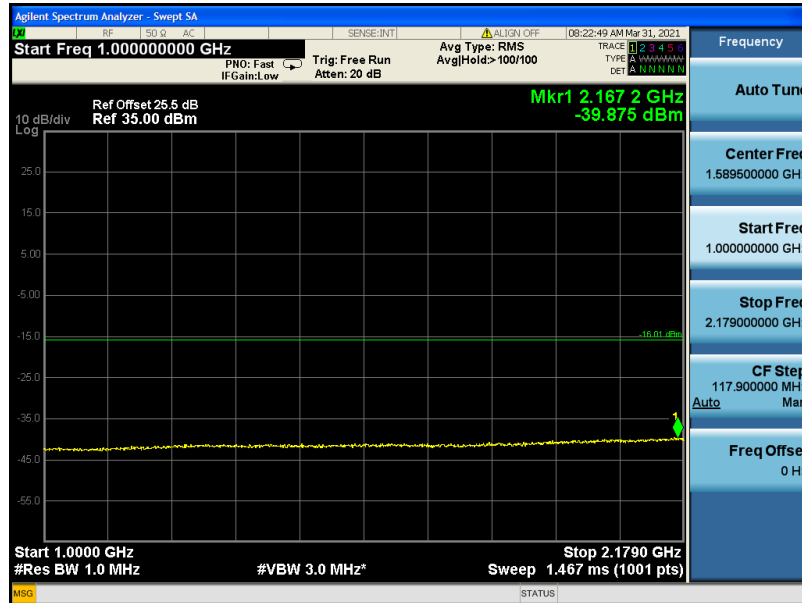


DL_1S_M_AWGN_Pre-AGC_Spurious emission 1



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DL_1S_M_AWGN_Pre-AGC_Spurious emission 2

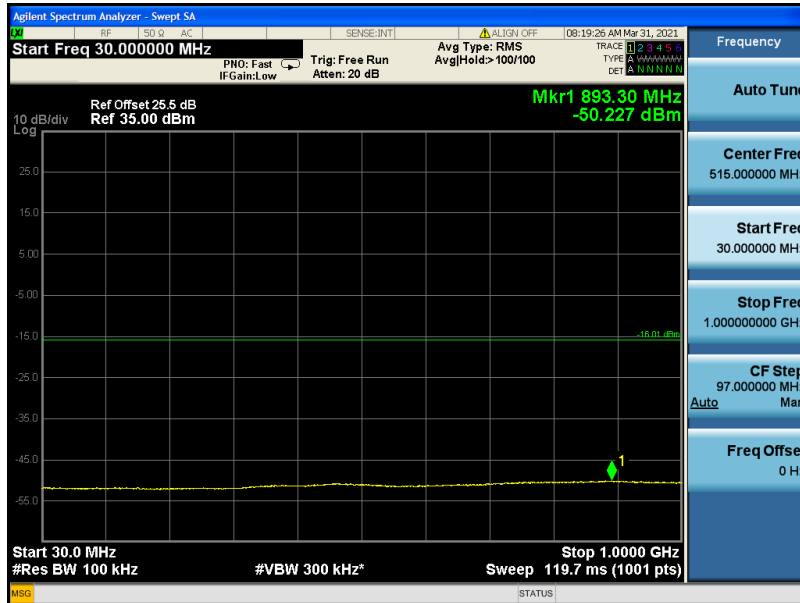


DL_1S_M_AWGN_Pre-AGC_Spurious emission 3

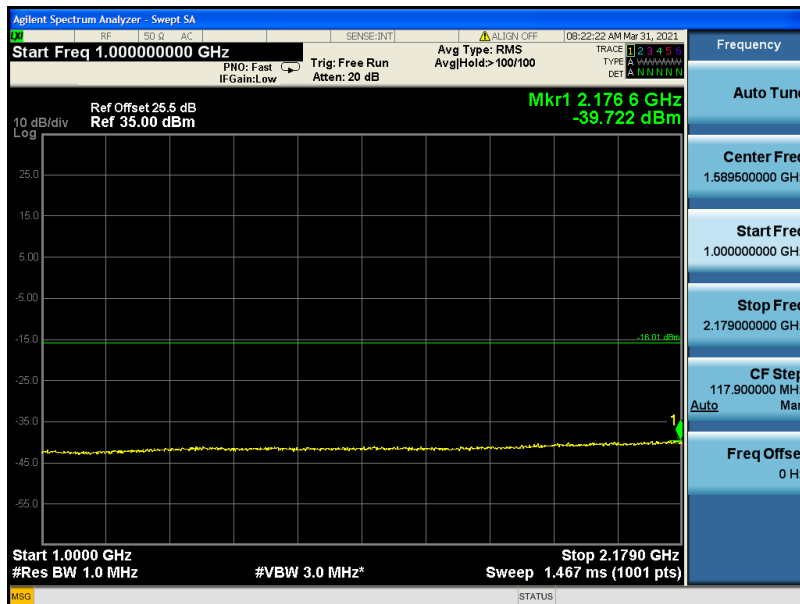


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DL_1S_T_AWGN_Pre-AGC_Spurious emission 1

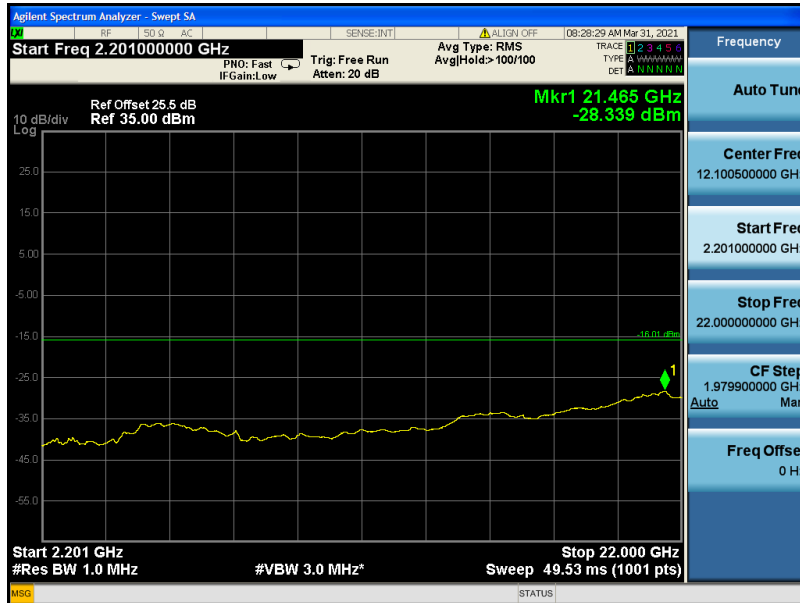


DL_1S_T_AWGN_Pre-AGC_Spurious emission 2

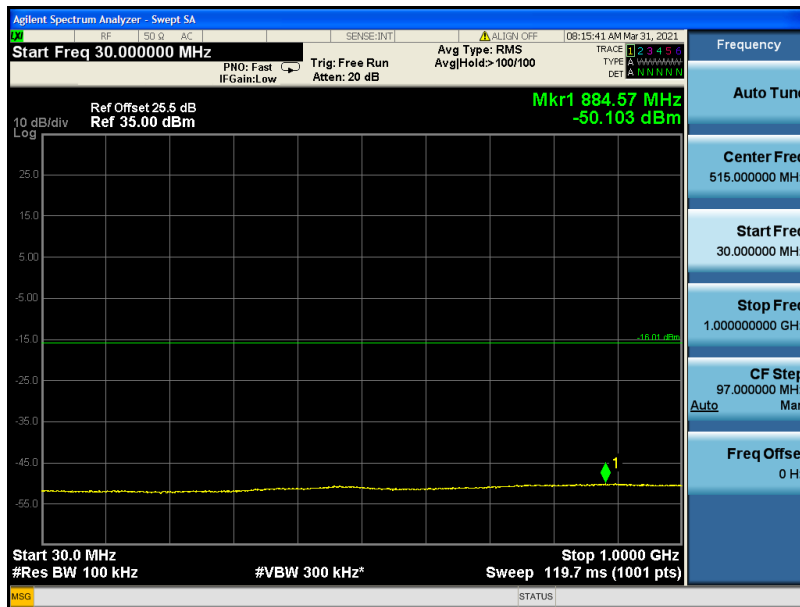


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DL_1S_T_AWGN_Pre-AGC_Spurious emission 3

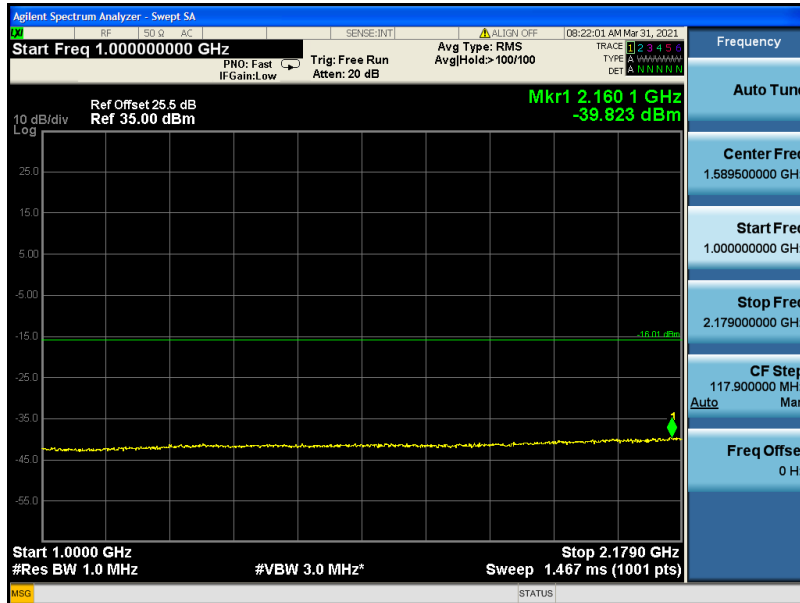


DL_1S_B_GSM_Pre-AGC_Spurious emission 1



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DL_1S_B_GSM_Pre-AGC_Spurious emission 2

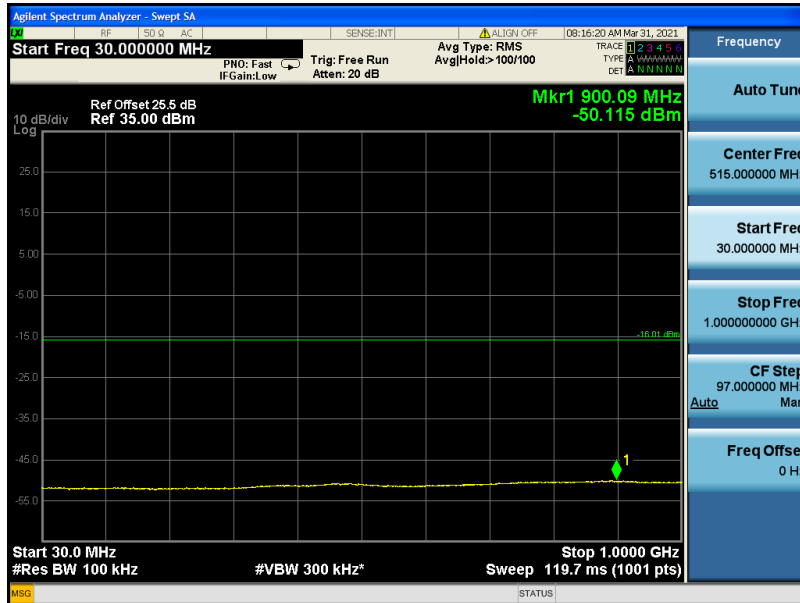


DL_1S_B_GSM_Pre-AGC_Spurious emission 3



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DL_1S_M_GSM_Pre-AGC_Spurious emission 1

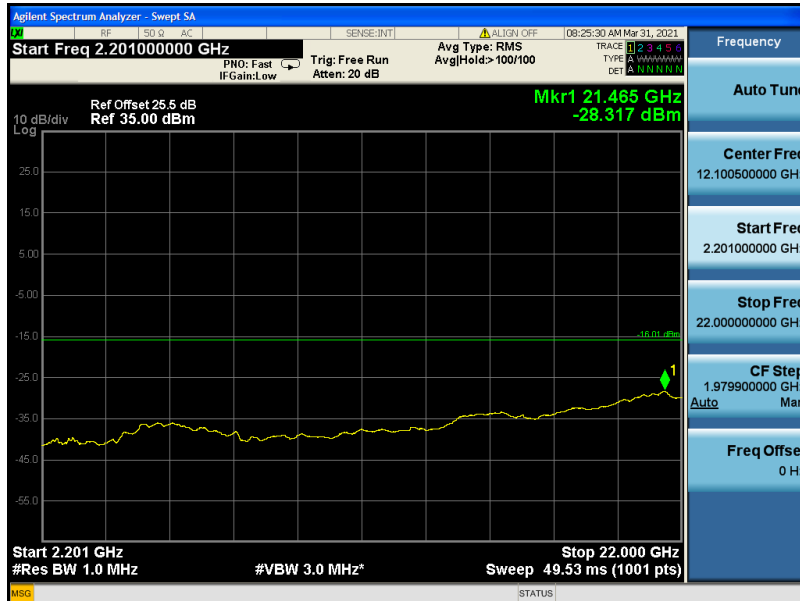


DL_1S_M_GSM_Pre-AGC_Spurious emission 2

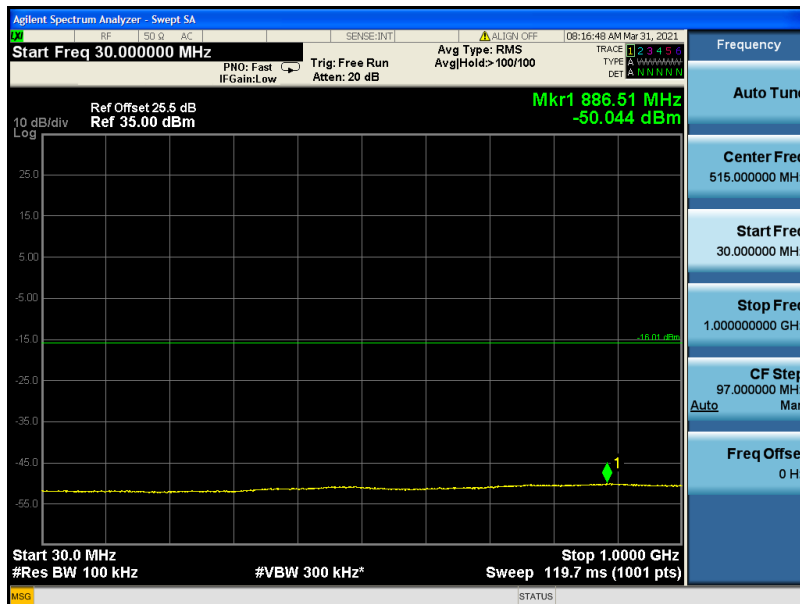


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DL_1S_M_GSM_Pre-AGC_Spurious emission 3

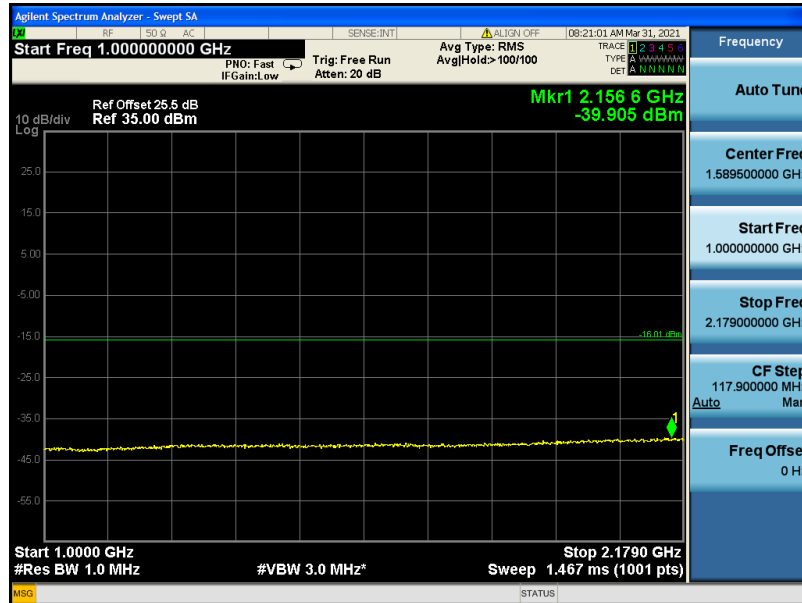


DL_1S_T_GSM_Pre-AGC_Spurious emission 1



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DL_1S_T_GSM_Pre-AGC_Spurious emission 2



DL_1S_T_GSM_Pre-AGC_Spurious emission 3



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2.6 Frequency Stability

- Note:
1. At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, here the rated supply voltage is DC 48V.
 2. At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.
 3. The frequency stabilities can be maintained within the authorized bands of operation. Meet the requirement.
 4. Frequency stability has been tested using an AWGN test signal and a GSM-TDMA test signal, only the worst-case was recorded in this report.



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| Frequency stability vs temperature | | | | |
|------------------------------------|--------------|-----------------|-----------------|---------|
| Temperature (°C) | Test Conf. | Test data (MHz) | Tolerance (ppm) | Verdict |
| 50 | DL_1S_M_AWGN | 2155.512386 | -0.02 | PASS |
| 40 | | 2155.512492 | 0.03 | PASS |
| 30 | | 2155.512352 | -0.04 | PASS |
| 20 | | 2155.512432 | Reference | PASS |
| 10 | | 2155.512346 | -0.04 | PASS |
| 0 | | 2155.512374 | -0.03 | PASS |
| -10 | | 2155.512396 | -0.02 | PASS |
| -20 | | 2155.512411 | -0.01 | PASS |
| -30 | | 2155.512480 | 0.02 | PASS |

| Frequency stability vs voltage | | | | |
|--------------------------------|--------------|-----------------|-----------------|---------|
| Voltage (V) | Test Conf. | Test data (MHz) | Tolerance (ppm) | Verdict |
| DC 40.8 | DL_1S_M_AWGN | 2155.512398 | -0.02 | PASS |
| DC 48 | | 2155.512432 | Reference | PASS |
| DC 55.2 | | 2155.512410 | -0.01 | PASS |



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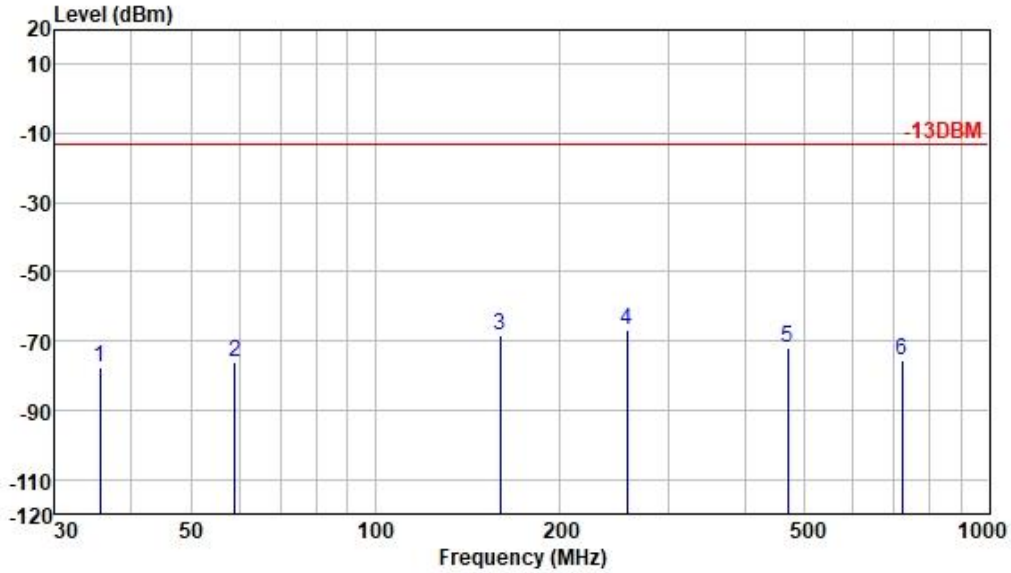
2.7 Radiated spurious emissions

- Note:
- The tested max conducted power for single antenna port is 20.36dBm. the 2x2 MIMO total power is 20.36dBm+20.36dBm= 0.2173W.
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
Here,
 $P=0.2173W$,
So the limit =
 $P(\text{dBm}) - [43 + 10 \log (0.2173W)] = -13\text{dBm}$
For these AWS-4 operations in the 2180-2200 MHz band, the power of any emissions on all frequencies between 2200 and 2290 MHz shall not exceed an EIRP of $-100.6 \text{ dBW}/4 \text{ kHz}$,
 $-100.6 \text{ dBW}/4 \text{ kHz} = -70.6 \text{ dBm}/4 \text{ kHz} = -46.6 \text{ dBm}/1 \text{ MHz}$
 - The radiated test performed at bottom / middle / top channel, the data with more than 20db margin, therefore, only the worst-case middle channel test data was recorded in the report.
 - The disturbance 9kHz to 30MHz was very low and 20dB below the limit, therefore, the data was not recorded in the report.



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DL_1S_M_AWGN_Horizontal_30MHz~1GHz

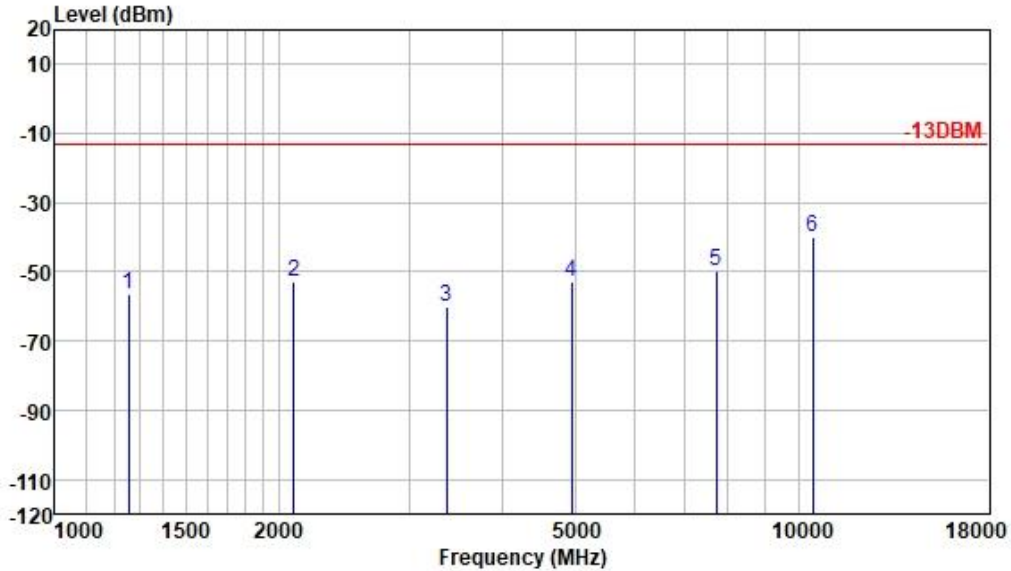


| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|-------------|------------|------------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 35.50 | -80.54 | 2.80 | -77.74 | -12.99 | HORIZONTAL |
| 2 | 59.03 | -73.55 | -2.45 | -76.00 | -12.99 | HORIZONTAL |
| 3 | 159.78 | -61.72 | -6.46 | -68.18 | -12.99 | HORIZONTAL |
| 4 | 256.52 | -62.01 | -4.71 | -66.72 | -12.99 | HORIZONTAL |
| 5 | 468.88 | -72.26 | 0.32 | -71.94 | -12.99 | HORIZONTAL |
| 6 | 721.73 | -79.08 | 3.65 | -75.43 | -12.99 | HORIZONTAL |



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DL_1S_M_AWGN_Horizontal_above 1GHz

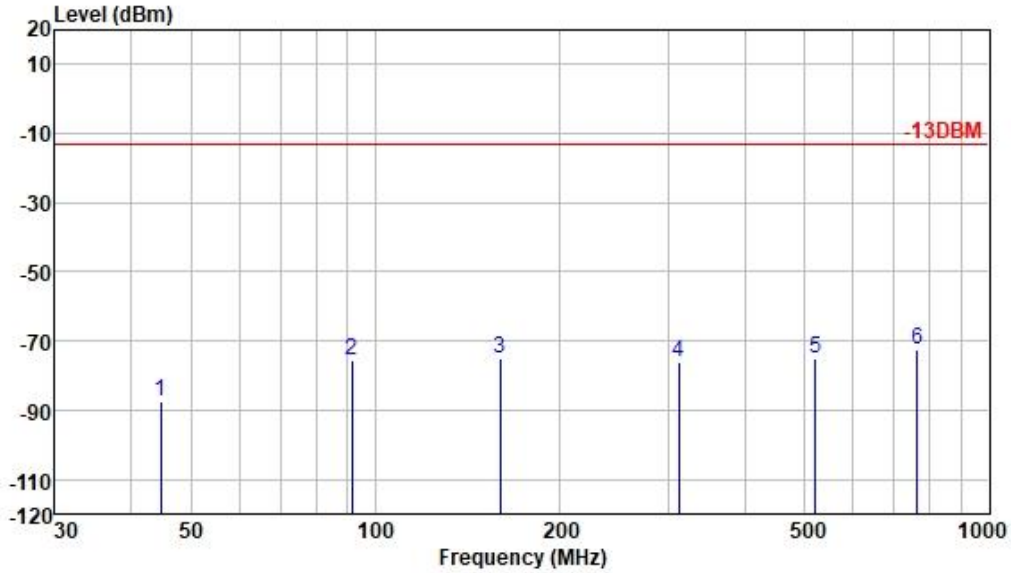


| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|----------|------------|-------------------|--------|------------|------------|------------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 1256.51 | -60.24 | 3.99 | -56.25 | -12.99 | -43.26 | HORIZONTAL |
| 2 | 2095.80 | -62.21 | 9.56 | -52.65 | -12.99 | -39.66 | HORIZONTAL |
| 3 | 3357.06 | -62.31 | 2.21 | -60.10 | -12.99 | -47.11 | HORIZONTAL |
| 4 | 4944.99 | -63.24 | 10.49 | -52.75 | -12.99 | -39.76 | HORIZONTAL |
| 5 | 7739.86 | -64.40 | 14.57 | -49.83 | -12.99 | -36.84 | HORIZONTAL |
| 6 | 10423.80 | -63.08 | 23.11 | -39.97 | -12.99 | -26.98 | HORIZONTAL |



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DL_1S_M_AWGN_Vertical_30MHz~1GHz

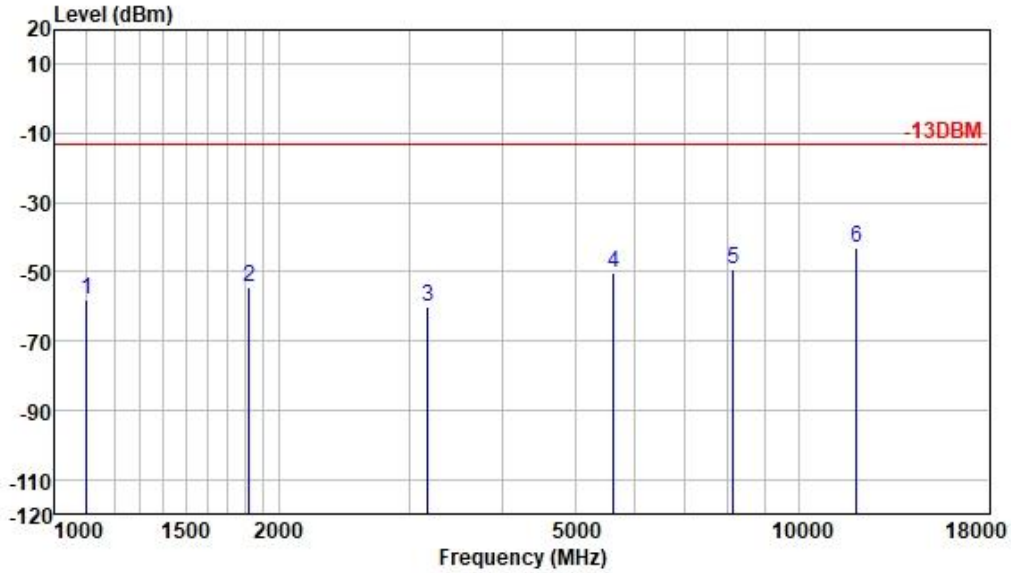


| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|-------------|------------|-----------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 44.59 | -75.02 | -12.53 | -87.55 | -12.99 | VERTICAL |
| 2 | 91.49 | -68.96 | -6.87 | -75.83 | -12.99 | VERTICAL |
| 3 | 159.78 | -71.14 | -3.94 | -75.08 | -12.99 | VERTICAL |
| 4 | 312.18 | -73.37 | -2.61 | -75.98 | -12.99 | VERTICAL |
| 5 | 520.89 | -76.19 | 1.12 | -75.07 | -12.99 | VERTICAL |
| 6 | 763.38 | -78.98 | 6.73 | -72.25 | -12.99 | VERTICAL |



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DL_1S_M_AWGN_Vertical_above 1GHz



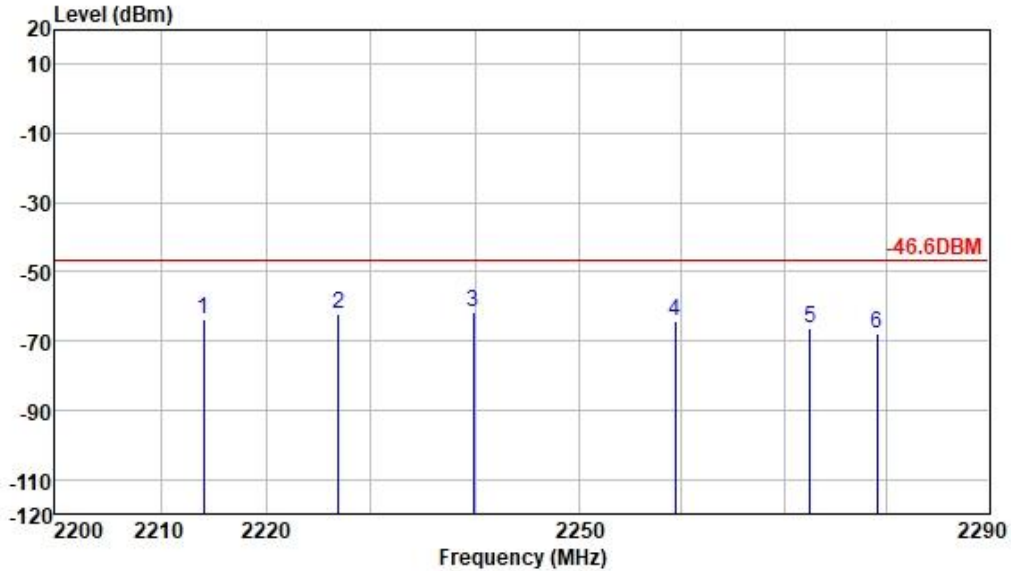
| | Freq | Read Level | Correction Factor | Limit Level | Over Limit | Pol/Phase |
|---|----------|------------|-------------------|-------------|------------|-----------|
| | MHz | dBm | dB | dBm | dB | |
| 1 | 1103.26 | -62.57 | 4.70 | -57.87 | -12.99 | VERTICAL |
| 2 | 1824.30 | -60.56 | 6.03 | -54.53 | -12.99 | VERTICAL |
| 3 | 3168.50 | -62.57 | 2.64 | -59.93 | -12.99 | VERTICAL |
| 4 | 5631.88 | -64.98 | 14.47 | -50.51 | -12.99 | VERTICAL |
| 5 | 8153.20 | -64.62 | 15.21 | -49.41 | -12.99 | VERTICAL |
| 6 | 11940.54 | -64.84 | 21.71 | -43.13 | -12.99 | VERTICAL |



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DL_1S_M_AWGN_Horizontal_2200-2290MHz

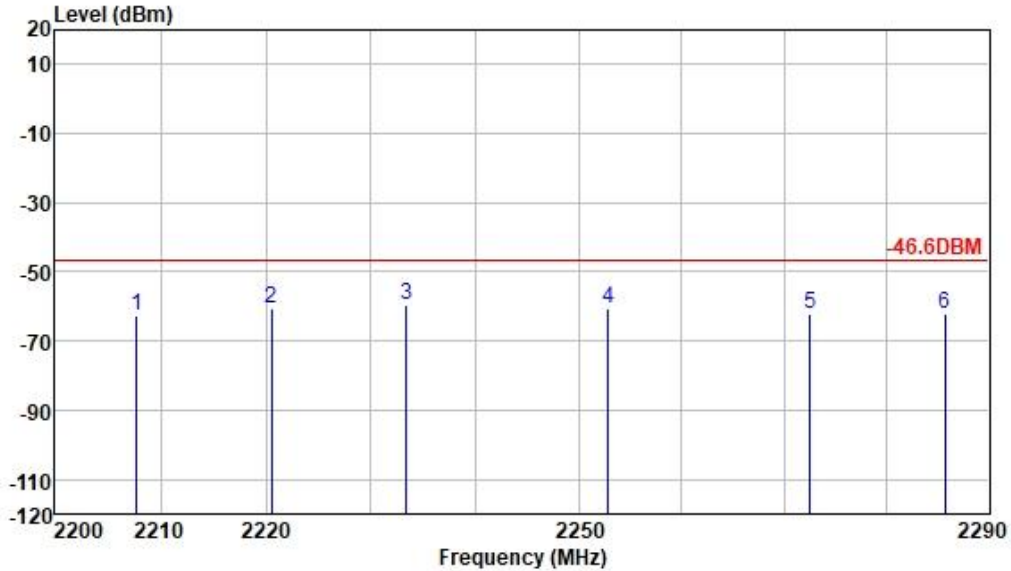


| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|---------|------------|-------------------|--------|------------|------------|------------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 2214.11 | -72.72 | 9.27 | -63.45 | -46.60 | -16.85 | HORIZONTAL |
| 2 | 2226.95 | -71.21 | 9.32 | -61.89 | -46.60 | -15.29 | HORIZONTAL |
| 3 | 2239.86 | -71.01 | 9.38 | -61.63 | -46.60 | -15.03 | HORIZONTAL |
| 4 | 2259.37 | -73.71 | 9.47 | -64.24 | -46.60 | -17.64 | HORIZONTAL |
| 5 | 2272.47 | -75.80 | 9.51 | -66.29 | -46.60 | -19.69 | HORIZONTAL |
| 6 | 2279.04 | -77.35 | 9.53 | -67.82 | -46.60 | -21.22 | HORIZONTAL |



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DL_1S_M_AWGN_Vertical_2200-2290MHz



| | Freq | Read Level | Correction Factor | Level | Limit Line | Over Limit | Pol/Phase |
|---|---------|------------|-------------------|--------|------------|------------|-----------|
| | MHz | dBm | dB | dBm | dBm | dB | |
| 1 | 2207.72 | -71.99 | 9.43 | -62.56 | -46.60 | -15.96 | VERTICAL |
| 2 | 2220.52 | -70.05 | 9.45 | -60.60 | -46.60 | -14.00 | VERTICAL |
| 3 | 2233.40 | -68.82 | 9.47 | -59.35 | -46.60 | -12.75 | VERTICAL |
| 4 | 2252.85 | -70.03 | 9.51 | -60.52 | -46.60 | -13.92 | VERTICAL |
| 5 | 2272.47 | -71.63 | 9.55 | -62.08 | -46.60 | -15.48 | VERTICAL |
| 6 | 2285.64 | -71.47 | 9.56 | -61.91 | -46.60 | -15.31 | VERTICAL |

--End of Appendix B--



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