

EMC-ARF-05 Rev 1.1

FCC ID: OJFDHRU-G2-17

Appendix -

Test Data and Result for report GZCR231100125702

(A)

(For copied data from original report GZCR210300001602)



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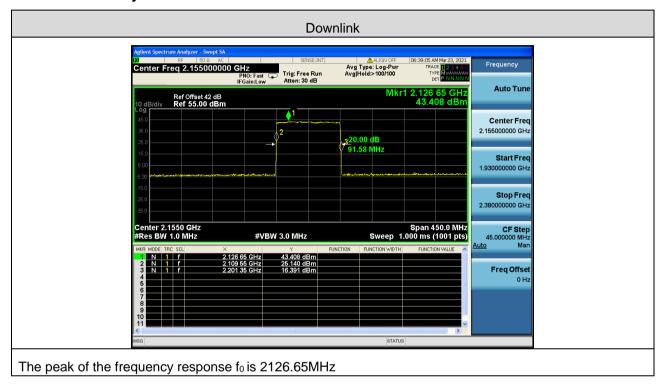
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1 AWS-1 & AWS-3 & AWS-4 (only for downlink: 2110-2200MHz)

1.1 Out-of-band rejection





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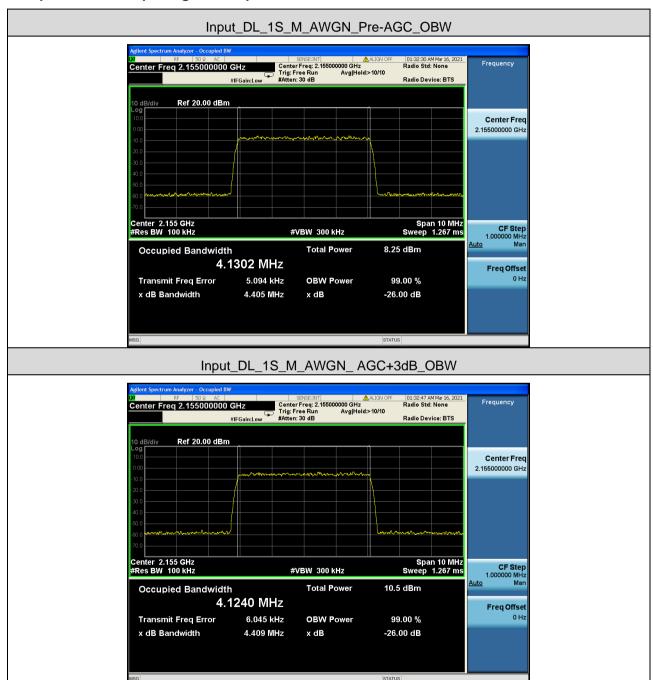
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1.2 Input-versus-output signal comparison





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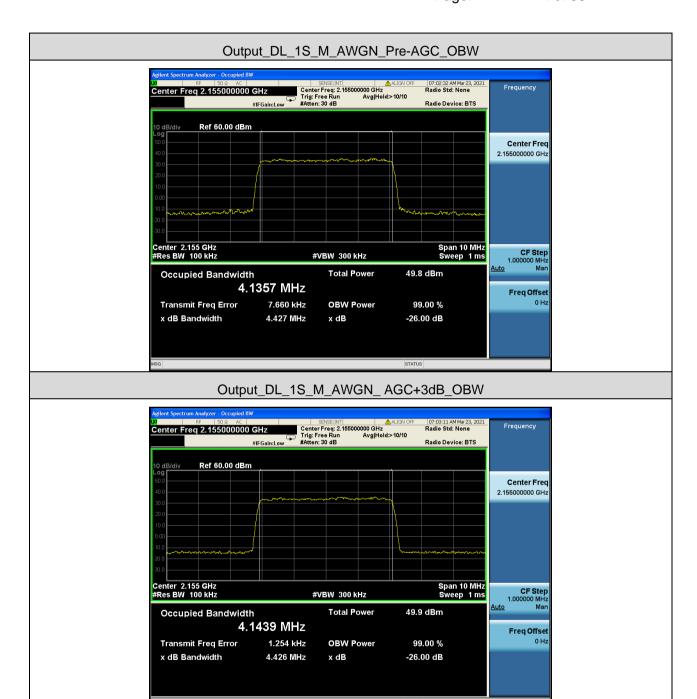
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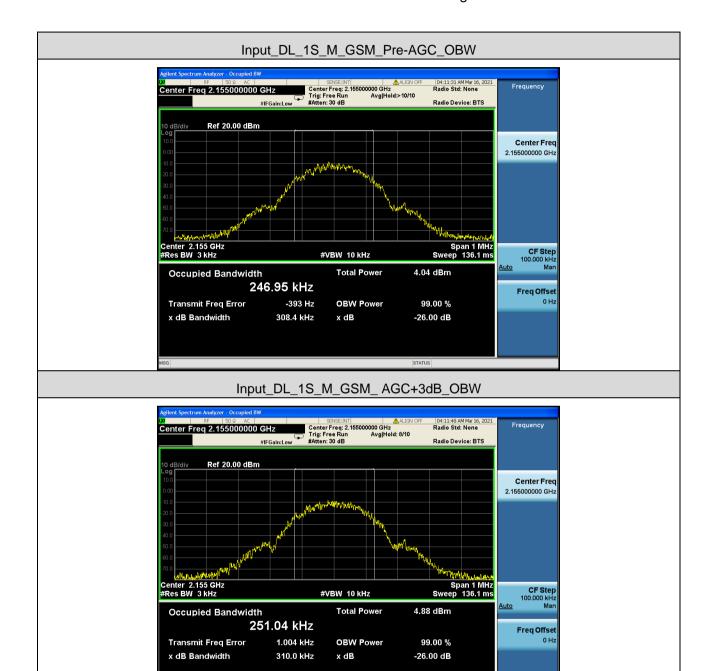
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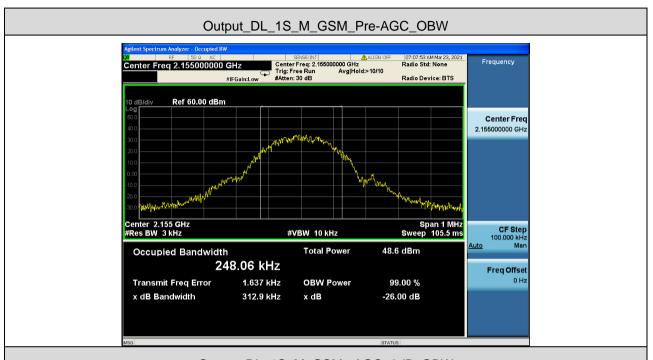
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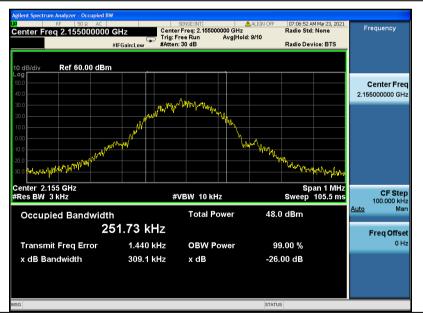
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Output_DL_1S_M_GSM_ AGC+3dB_OBW



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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1.3 Mean output power and amplifier/booster gain

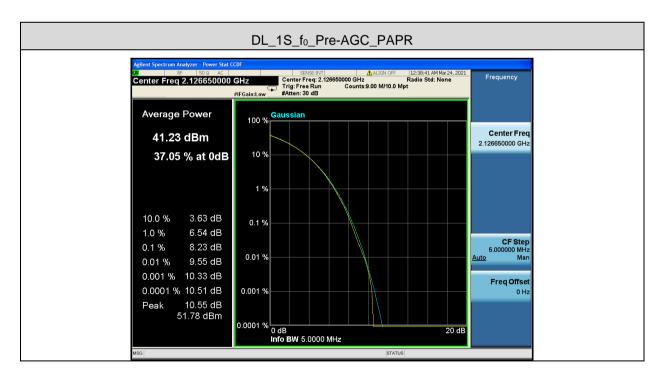
Test Conf.	Test Freq. fo	Signal Level	Input Power (dBm)	Output Power (dBm)	Gain (dB)	Verdict
DL_1S_AWGN	2126.65	Pre-AGC	0.00	42.68	42.68	PASS
		AGC+3dB	3.00	42.87	/	PASS
DL_1S_GSM	2126.65	Pre-AGC	0.11	42.76	42.65	PASS
		AGC+3dB	2.89	43.00	/	PASS

Remark:

According to the declaration from the applicant, the single antenna gain should not exceed 12.5dBi, the Directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 12.5dBi+10log (2) dBi= 15.5dBi.

The total maximum EIRP for the EUT is (43.00dBm+43.00dBm) +15.5dBi=61.5dBm (1412.5W) which don't exceed the required EIRP limit (1640W/MHz).

Test Conf.	Test Freq. f ₀ (MHz)	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWGN	2126.65	Pre-AGC	9.55	13	PASS





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

Note:

The tested max conducted power for single antenna port is 43.00dBm, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB Here.

P=43.00dBm= 19.95W.

So the limit =

P(dBm)- [43 + 10 log (19.95W)] = -13dBm

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.

The spurious emissions from 9kHz to 30MHz was very low and 20dB below the limit, therefore, the data was not recorded in the report.



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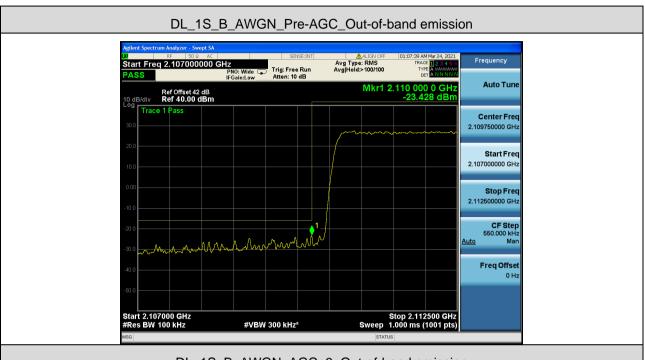
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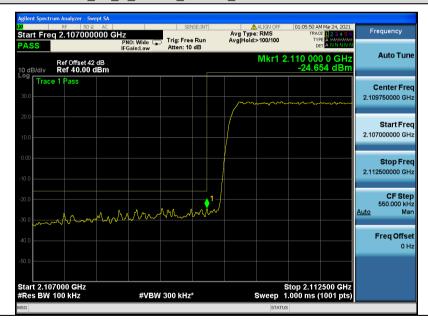
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DL_1S_B_AWGN_AGC+3_Out-of-band emission





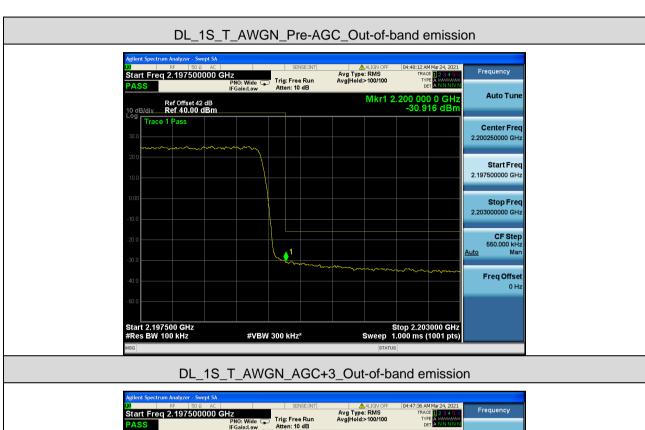
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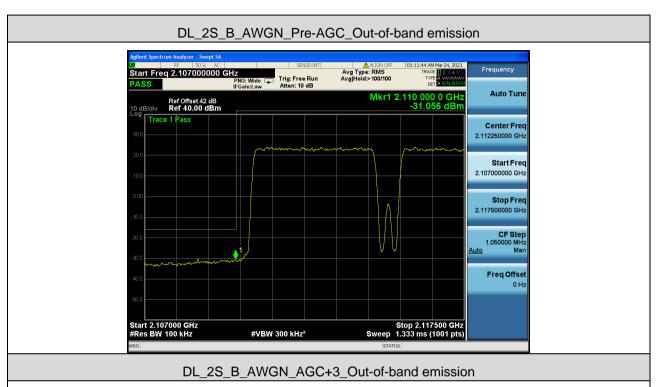
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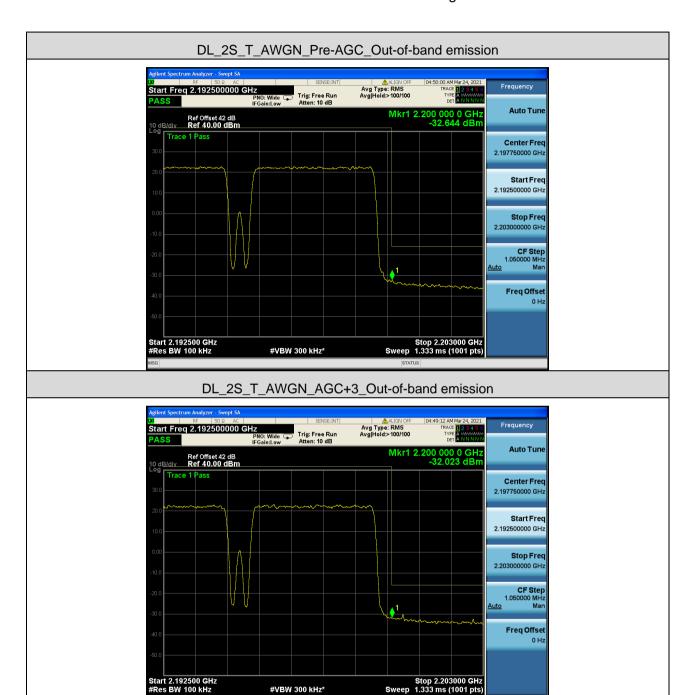
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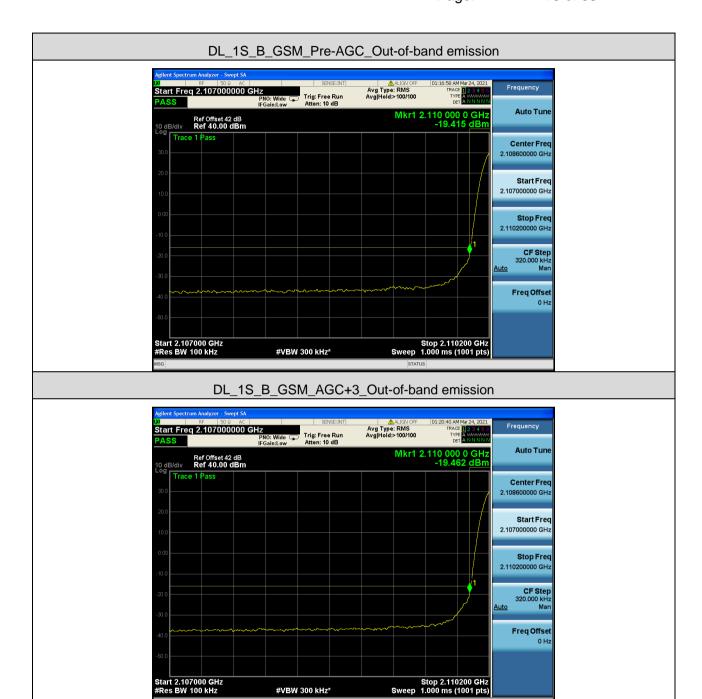
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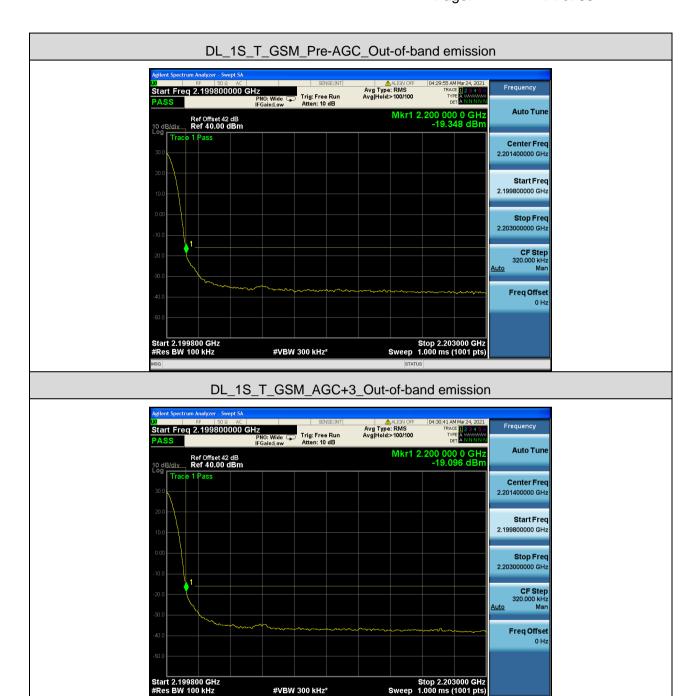
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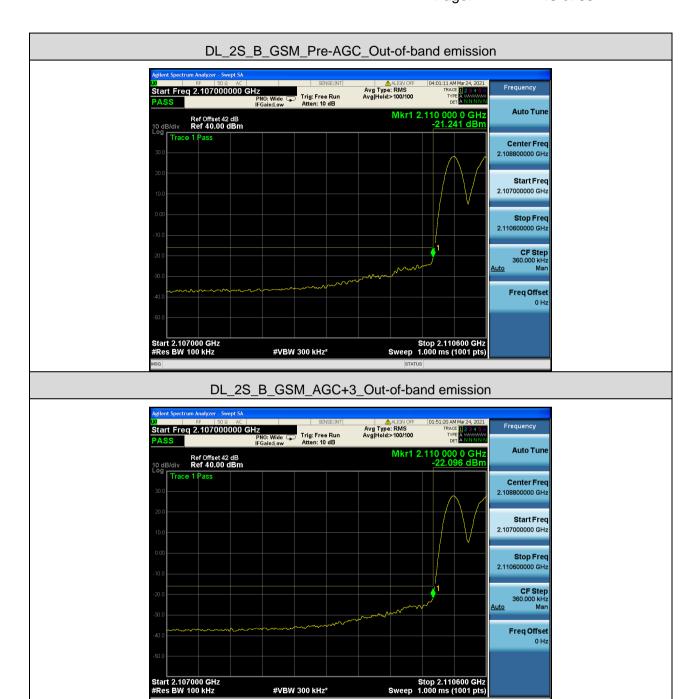
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Start 2.199400 GHz #Res BW 100 kHz

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Stop 2.203000 GHz Sweep 1.000 ms (1001 pts)

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#VBW 300 kHz*

Freq Offset



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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





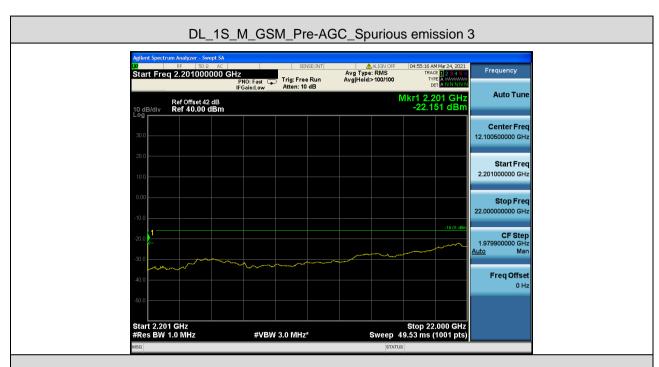
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DL_1S_T_GSM_Pre-AGC_Spurious emission 1





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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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1.5 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 AC 110V.
- 2. At ± 20 °C temperature and $\pm 15\%$ supply voltage variations. If a product is specified to operate over a range of input voltage, then the $\pm 15\%$ variation is applied to the lowermost voltage and the $\pm 15\%$ 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.

Frequency stability vs temperature						
Temperature (°C)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict		
50		2155.001937	-0.75	PASS		
40		2155.002937	-0.28	PASS		
30		2155.003048	-0.23	PASS		
20		2155.003547	Reference	PASS		
10	DL_1S_M_AWGN	2155.002364	-0.55	PASS		
0		2155.001246	-0.11	PASS		
-10		2155.002739	-0.37	PASS		
-20		2155.001842	-0.79	PASS		
-30		2155.002713	-0.39	PASS		

Frequency stability vs voltage						
Voltage (V)	Test Conf.	Test data (MHz)	Tolerance (ppm)	Verdict		
AC 93.5		2155.003748	0.09	PASS		
AC 110	DL_1S_M_AWGN	2155.003547	Reference	PASS		
AC 126.5		2155.003864	0.15	PASS		



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1.6 Radiated spurious emissions

Note:

1. The tested max conducted power for single antenna port is 43.00dBm, the 2x2 MIMO total power is 43.00dBm+43.00dBm=39.9W, the power of any emission must be reduced below the mean output power (P) by at least 43 + 10log (P) dB

Here,

P=39.9W

So the limit =

P(dBm)- [43 + 10 log (39.9W)] = -13dBm

In additional, 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 dBW/4 kHz,

- -100.6 dBW/4 kHz = -70.6 dBm/4 kHz = -46.6 dBm/1 MHz
- 2. 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.
- 3. The disturbance from 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 20 Level (dBm) 10 13DBM -10 -30 -50 6 -70 -90 -110 -120₃₀ 50 100 200 500 1000 Frequency (MHz) Limit Read Correction Over Pol/Phase Freq Factor Level Line Limit Level MHz dBm dB dBm dBm dB -78.35 2.85 -75.50 -12.99 -62.51 HORIZONTAL 1 35.13 -67.45 -8.75 -76.20 -12.99 -63.21 HORIZONTAL 2 113.32 3 177.51 -67.79 -6.05 -73.84 -12.99 -60.85 HORIZONTAL -67.10 -3.07 -70.17 -12.99 -57.18 297.22 HORIZONTAL 5 463.97 -72.92 0.31 -72.61 -12.99 -59.62 HORIZONTAL 836.24 -78.05 7.17 -70.88 -12.99 -57.89 HORIZONTAL



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DL 1S M AWGN Horizontal above 1GHz 20 Level (dBm) 10 13DBM -10 -30 5 -50 3 -70 -90 -120 1000 1500 2000 5000 10000 18000 Frequency (MHz) Read Correction Limit Over Pol/Phase Freq Factor Level Line Limit Level MHz dBm dB dBm dBm dB -60.37 3.64 -56.73 -12.99 -43.74 HORIZONTAL 1 1227.79 9.74 -52.56 -12.99 -39.57 HORIZONTAL 2 -62.30 2053.82 3 3242.62 -62.76 2.23 -60.53 -12.99 -47.54 HORIZONTAL 5090.01 -63.87 11.82 -52.05 -12.99 -39.06 HORIZONTAL 5 7411.46 -63.66 16.43 -47.23 -12.99 -34.24 HORIZONTAL 10854.25 -63.28 23.98 -39.30 -12.99 -26.31 HORIZONTAL



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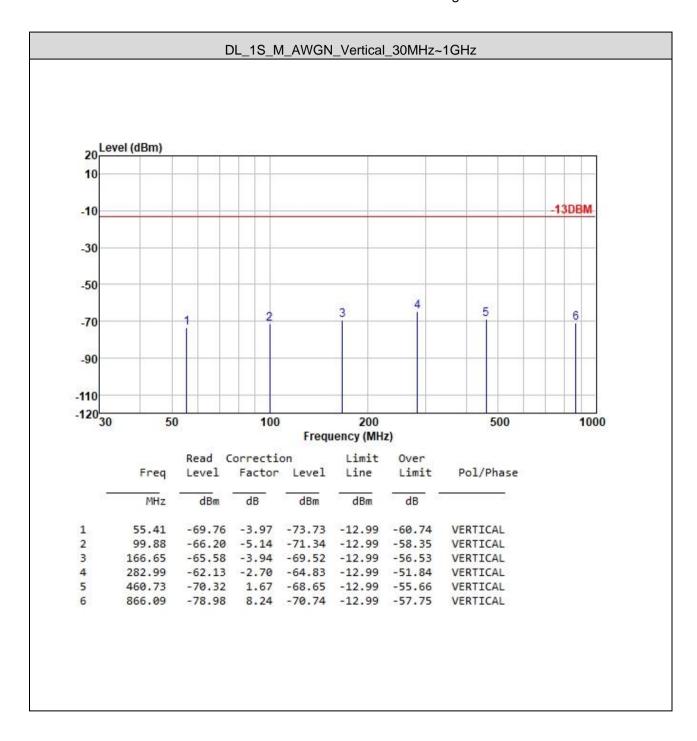
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DL 1S M AWGN Vertical above 1GHz 20 Level (dBm) 10 13DBM -10 -30 6 -50 9 -70 -90 -120 1000 1500 2000 5000 10000 18000 Frequency (MHz) Limit Read Correction Over Pol/Phase Freq Factor Level Line Limit Level MHz dBm dB dBm dBm dB VERTICAL -59.45 3.39 -56.06 -12.99 -43.07 1 1125.81 5.39 -54.20 -12.99 -41.21 VERTICAL 2 1667.95 -59.59 3 2285.64 -61.03 9.56 -51.47 -12.99 -38.48 VERTICAL -63.45 12.64 -50.81 -12.99 -37.82 5224.15 VERTICAL 5 8013.02 -63.04 16.19 -46.85 -12.99 -33.86 VERTICAL 13288.28 -64.76 25.76 -39.00 -12.99 -26.01 VERTICAL



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DL 1S M AWGN Horizontal 2200MHz~2290MHz 20 Level (dBm) 10 -10 -30 46.6DBM -50 3 5 6 -70 -90 -120<mark>2200</mark> 2210 2220 2250 2290 Frequency (MHz) Read Correction Limit Over Pol/Phase Freq Factor Level Line Limit Level MHz dBm dB dBm dBm dB 9.25 -64.23 -46.60 -17.63 HORIZONTAL 1 2207.72 -73.48 9.35 -56.76 -46.60 -10.16 HORIZONTAL 2 2233.40 -66.11 9.41 -58.50 -46.60 -11.90 3 2246.34 -67.91 HORIZONTAL -69.71 9.47 -60.24 -46.60 -13.64 2259.37 HORIZONTAL 5 2272.47 -72.80 9.51 -63.29 -46.60 -16.69 HORIZONTAL 2285.64 -75.90 9.55 -66.35 -46.60 -19.75 HORIZONTAL

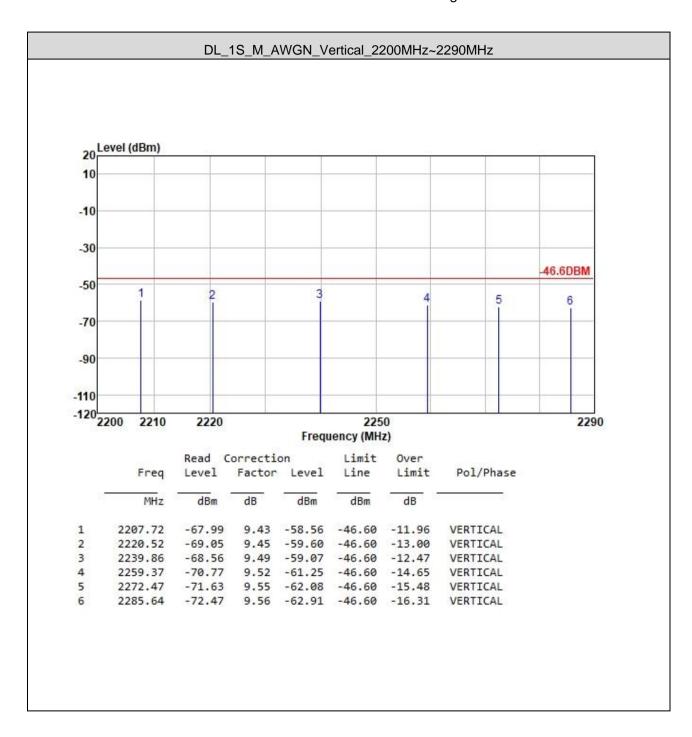


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-- End of Appendix --



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