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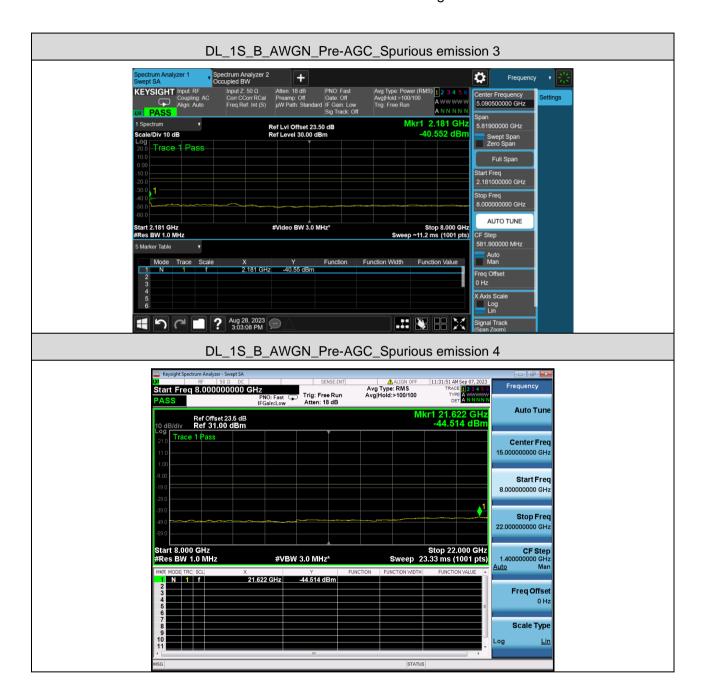


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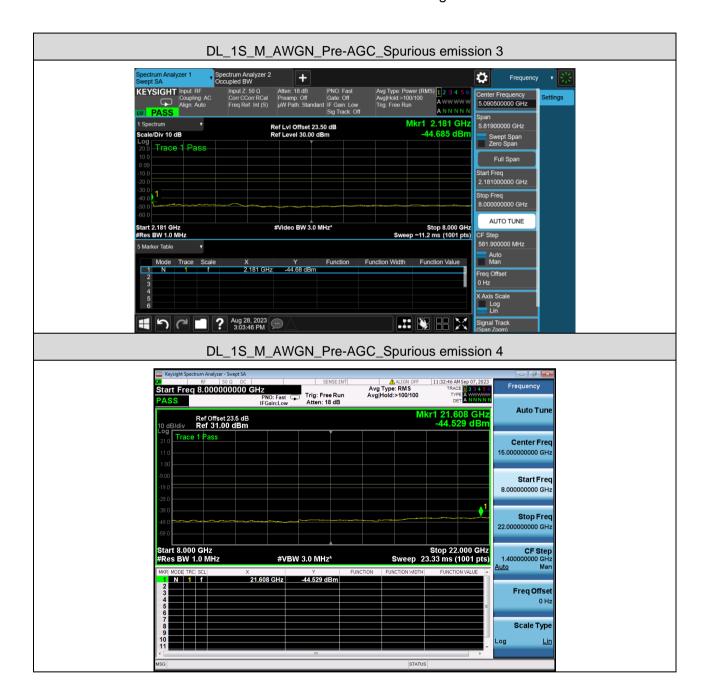


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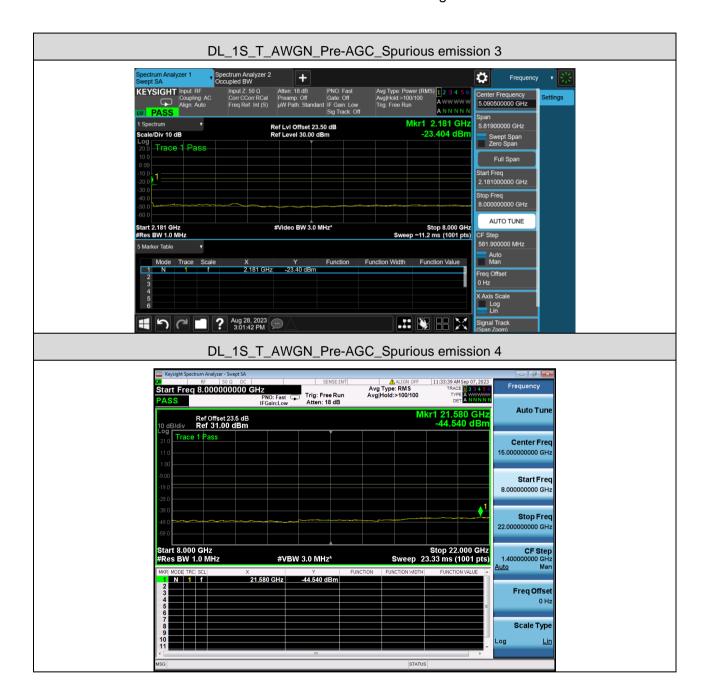


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2.5 Frequency Stability

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 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.



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Frequency stability vs temperature						
Temperature (°C)	Test Conf.	Frequency Error (Hz)	Tolerance (ppm)	Verdict		
50		113	0.052	PASS		
40		97	0.045	PASS		
30		118	0.054	PASS		
20		106	0.049	PASS		
10	DL_1S_M_AWGN	102	0.047	PASS		
0		110	0.051	PASS		
-10		99	0.046	PASS		
-20		99	0.046	PASS		
-30		114	0.053	PASS		

Frequency stability vs voltage					
Voltage (V)	Test Conf.	Frequency Error (Hz)	Tolerance (ppm)	Verdict	
DC 40.8		110	0.051	PASS	
DC 48	DL_1S_M_AWGN	106	0.049	PASS	
DC 55.2		101	0.047	PASS	



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2.6 Radiated spurious emissions

Note:

1. 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 log10 (P) dB

Here,

P=0.2173W,

So the limit =

P(dBm)-[43 + 10 log (0.2173W)] = -13dBm

- 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 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 30 Level (dBm) 20 0 -20 -40 -60 6 -80 2 -100 -120₃₀ 50 100 200 1000 500 Frequency (MHz) Limit Read Correction Over Pol/Phase Freq Level Factor Level Line Limit MHz dBm dB dBm dB 61.35 -81.91 -2.87 -84.78 -13.00 -71.78 HORIZONTAL 2 105.64 -79.45 -9.37 -88.82 -13.00 -75.82 HORIZONTAL 3 209.31 -79.52 -7.24 -86.76 -13.00 -73.76 HORIZONTAL 4 333.69 -79.82 -2.16 -81.98 -13.00 -68.98 HORIZONTAL 5 515.44 -77.85 0.44 -77.41 -13.00 -64.41 HORTZONTAL 744.87 -77.55 4.88 -72.67 -13.00 -59.67 HORIZONTAL



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DL 1S M AWGN Horizontal above 1GHz 30 Level (dBm) 20 0 -20 -40 6 2 -60 -80 -100 -120 1000 1500 2000 5000 10000 18000 Frequency (MHz) Limit Read Correction Over Pol/Phase Freq Level Factor Level Line Limit MHz dBm dB dBm dBm dB 1456.08 -61.02 4.67 -56.35 -13.00 -43.35 HORIZONTAL 2 2373.16 -63.36 9.52 -53.84 -13.00 -40.84 HORIZONTAL 3 3587.82 -62.51 4.32 -58.19 -13.00 -45.19 HORIZONTAL 4 5361.83 -64.05 12.82 -51.23 -13.00 -38.23 HORIZONTAL 5 6285.70 -64.10 19.21 -44.89 -13.00 -31.89 HORTZONTAL 7305.12 -68.61 17.46 -51.15 -13.00 -38.15 HORIZONTAL



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DL 1S M AWGN Vertical 30MHz~1GHz 30 Level (dBm) 20 0 -20 -40 -60 6 4 -80 -100 -120₃₀ 50 100 200 500 1000 Frequency (MHz) Limit Read Correction Over Pol/Phase Freq Level Factor Level Line Limit MHz dBm dB dBm dBm dB 56.39 -80.31 -3.37 -83.68 -13.00 -70.68 VERTICAL 2 110.57 -78.94 -4.41 -83.35 -13.00 -70.35 VERTICAL 3 242.53 -79.68 -6.52 -86.20 -13.00 -73.20 VERTICAL 4 438.66 -77.95 1.36 -76.59 -13.00 -63.59 VERTICAL 5 601.43 -78.02 4.21 -73.81 -13.00 -60.81 VERTICAL 737.07 -78.21 5.07 -73.14 -13.00 -60.14 VERTICAL



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DL 1S M AWGN Vertical above 1GHz 30 Level (dBm) 20 0 -20 -40 5 -60 -80 -100 -120 1000 1500 2000 5000 10000 18000 Frequency (MHz) Limit Read Correction Over Pol/Phase Freq Level Factor Level Line Limit MHz dBm dB dBm dBm dB 2018.51 -63.19 8.66 -54.53 -13.00 -41.53 VERTICAL 2 3105.04 -62.63 2.75 -59.88 -13.00 -46.88 VERTICAL 3 4640.34 -62.80 7.21 -55.59 -13.00 -42.59 VERTICAL 4 6071.42 -64.01 19.36 -44.65 -13.00 -31.65 VERTICAL 7368.74 -68.24 17.30 -50.94 -13.00 -37.94 5 VERTICAL 10822.92 -69.05 24.77 -44.28 -13.00 -31.28 VERTICAL



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3 Broadband PCS (1850-1915MHz paired with 1930-1995MHz)

3.1 AGC threshold level

Test Conf.	AGC Threshold level	
DL_1S_M_AWGN	0.00dBm	



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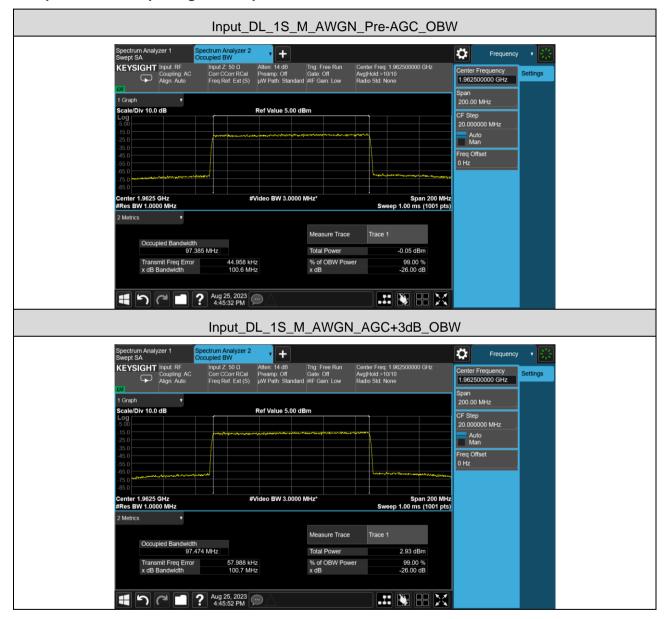
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3.2 Input-versus-output signal comparison





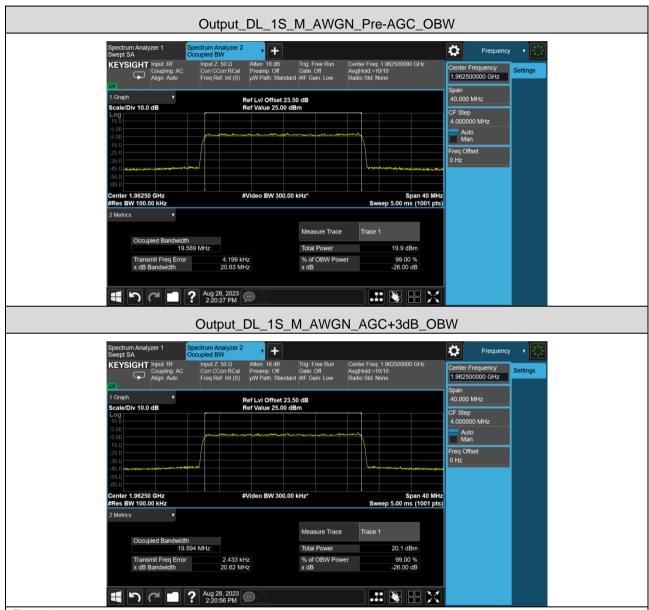
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Remark:

- 1. The band supports maximum channel BW is 20MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN as input signal.
- 2. 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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3.3 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	1930.50	Pre-AGC	-0.10	20.31	20.41	PASS
		AGC+3dB	3.00	20.25	/	PASS

Remark:

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

The total maximum EIRP for the EUT is (20.31dBm+20.31dBm) +15.5dBi=38.82dBm (7.621W) which don't exceed the required EIRP limit (1640W/MHz)



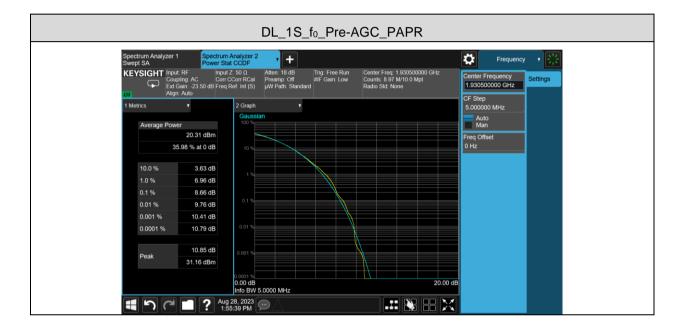
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Test Conf.	Test Freq. f ₀ (MHz)	Signal Level	PAPR (dB)	Limit (dB)	Verdict
DL_1S_AWGN	1930.5	Pre-AGC	9.76	13	PASS





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

Note:

1. The tested max conducted power for single antenna port is 20.35dBm, 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 log10 (P) dB

Here,

P=20.35dBm= 0.1084W.

So the limit =

P(dBm)- [43 + 10 log (0.1084W)] = -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.

2. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



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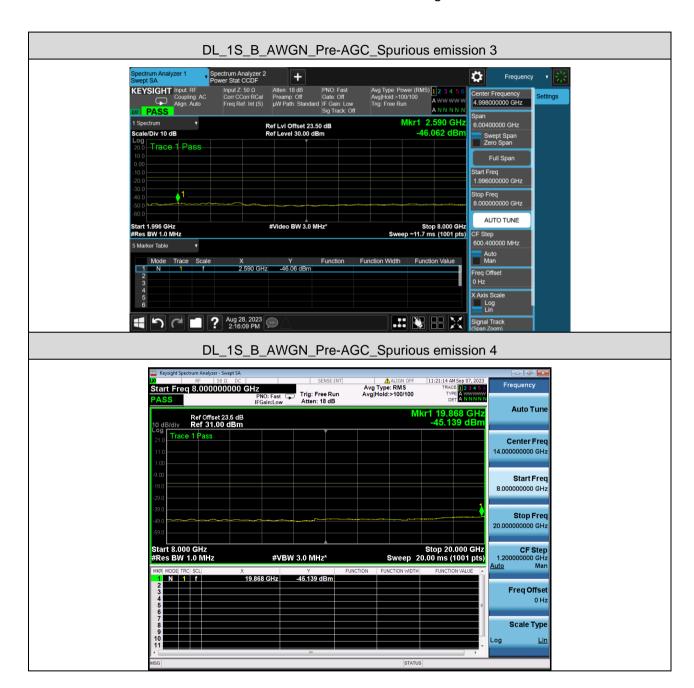


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