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FCC ID: OJFDMRUG22325

## Appendix -

# Test Data and Result for report GZCR230600056903

(For BRS/EBS Band DL)



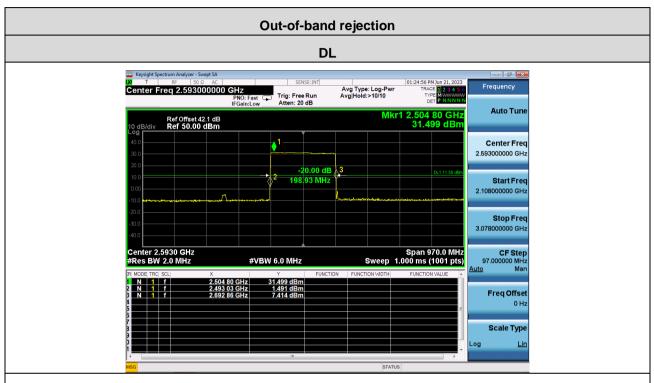
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#### 1 Out-of-band rejection



The peak of the frequency response f0 is 2504.8MHz.

The frequency point f0 with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.



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#### 2 Input versus Output comparison

Occupied Bandwidth									
Test Path	Test Signal	Test Signal Test Channel Signal Level		Verdict					
	4.1MHz AWGN	MCH	Pre-AGC	PASS					
		WICH	3dB above AGC	PASS					
	100MHz AWGN	MCH	Pre-AGC	PASS					
DL		WOTT	3dB above AGC	PASS					
		MCH	Pre-AGC	PASS					
	GSM	IVICH	3dB above AGC	PASS					

#### 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.

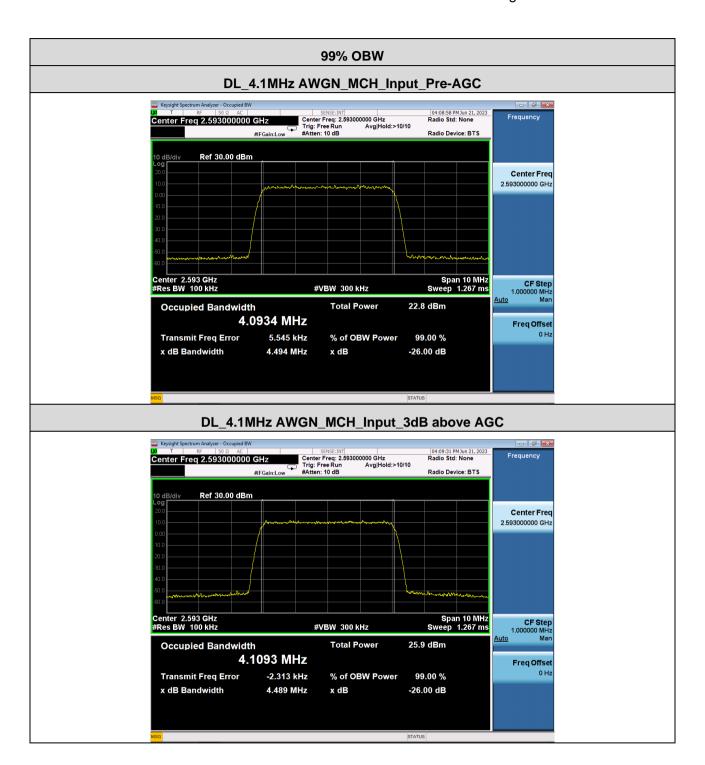


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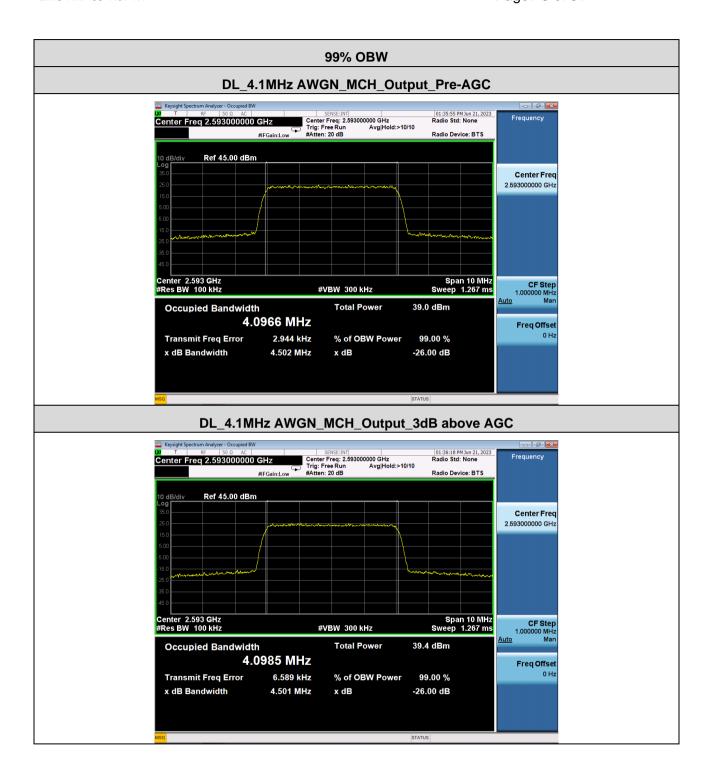


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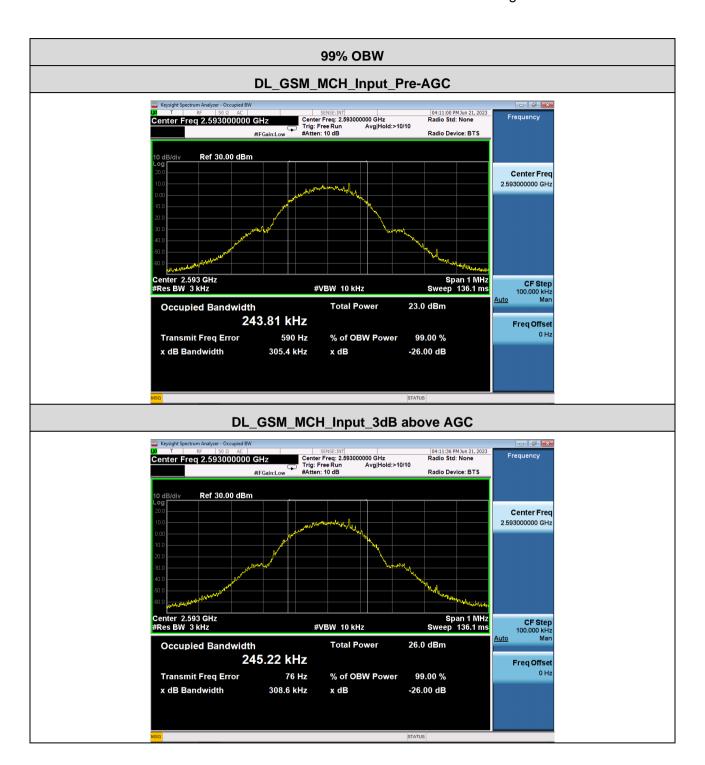


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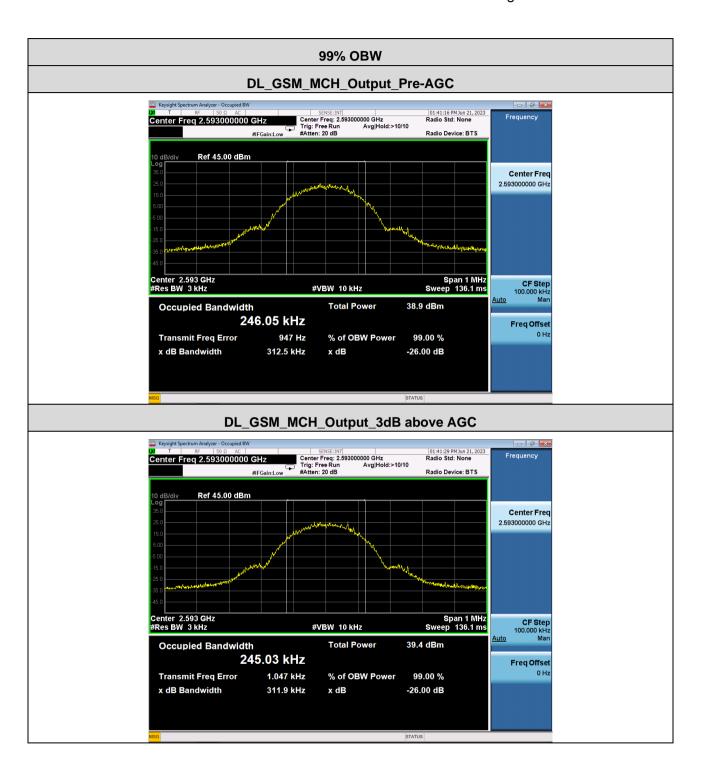


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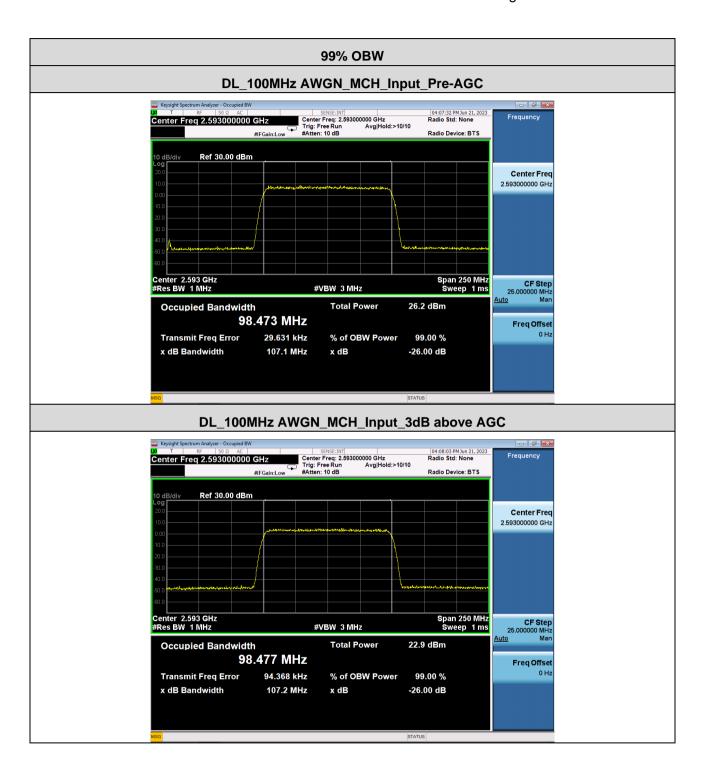


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#### 3 Output power and amplifier/booster gain

	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			
		4.1MHz AWGN	Pre-AGC	23.00	38.95	78.53	314.06	15.95	PASS			
			3dB above AGC	26.00	38.58	72.12	288.41	/	PASS			
		100MHz	Pre-AGC	23.00	39.35	86.10	344.36	16.35	PASS			
DL	2504.8	2504.8 AWGN	3dB above AGC	26.00	39.73	93.98	375.84	/	PASS			
		GSM	Pre-AGC	23.00	39.61	91.42	365.60	16.61	PASS			
			3dB above AGC	26.00	39.48	88.72	354.82	/	PASS			

#### Remark:

- 1. f0 is from Out-of-band Rejection test in the report.
- 2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer, the directional gain =  $G_{ANT}$  + 10 log ( $N_{ANT}$ ) dBi = 13dBi.
- 3. For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern:

EIRP≤33dBW+10lg(X/Y) dBW+10lg(360/beamwidth) dBW= 1995W+10lg(X/Y) dBW+10lg(360/beamwidth)

4. For other main or booster:

 $EIRP \le 33dBW+10lg(X/Y) dBW=1995W+10lg(X/Y) dBW$ 

where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition.

5. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.



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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)	Verdict			
			One signal	Pre-AGC	-30.64		PASS			
	LCH		input	3dB above AGC	-31.13		PASS			
	LCH		Two signals	Pre-AGC	-30.56		PASS			
DI		4.1MHz	input	3dB above AGC	-30.06	- 4C	PASS			
DL		AWGN	One signal	Pre-AGC	-28.58	≤-16 - -	PASS			
	НСН		input	3dB above AGC	-28.95		PASS			
			Two signals input	Pre-AGC	-29.58		PASS			
				3dB above AGC	-29.38		PASS			
			One signal	Pre-AGC	-19.90		PASS			
	1.011		input	3dB above AGC	-20.22		PASS			
	LCH		Two signals	Pre-AGC	-20.84		PASS			
<b>D</b> .		100MHz	input	3dB above AGC	-20.53		PASS			
DL		AWGN	One signal	Pre-AGC	-21.09	≤-16	PASS			
	HOLL		input	3dB above AGC	-21.79		PASS			
	HCH		Two signals	Pre-AGC	-22.35		PASS			
			input	3dB above AGC	-22.65		PASS			

#### Remark:

P = 39dBm = 7.95W

the limit =  $39dBm - [43 + 10 \log 10 (7.95W)] dB = -13dBm$ 

2. For 2×2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



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<sup>1.</sup> 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 + 10log10 (P) dB, here,



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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)	Verdict			
			One signal	Pre-AGC	-30.71		PASS			
	LCH		input	3dB above AGC	-29.91		PASS			
	LCH		Two signals input	Pre-AGC	-26.77		PASS			
				3dB above AGC	-26.47		PASS			
DL		HCH GSM	One signal	Pre-AGC	-30.36	≤-16	PASS			
	HOLL		input	3dB above AGC	-29.66		PASS			
	ПСН		Two signals	Pre-AGC	-23.58		PASS			
			input	3dB above AGC	-23.78		PASS			

#### Remark:

1. 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 + 10log10 (P) dB, here,

P = 39dBm = 7.95W

the limit =  $39dBm - [43 + 10 \log 10 (7.95W)] dB = -13dBm$ 

2. For  $2\times2$  MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)=-16dBm to determine the test result conveniently.



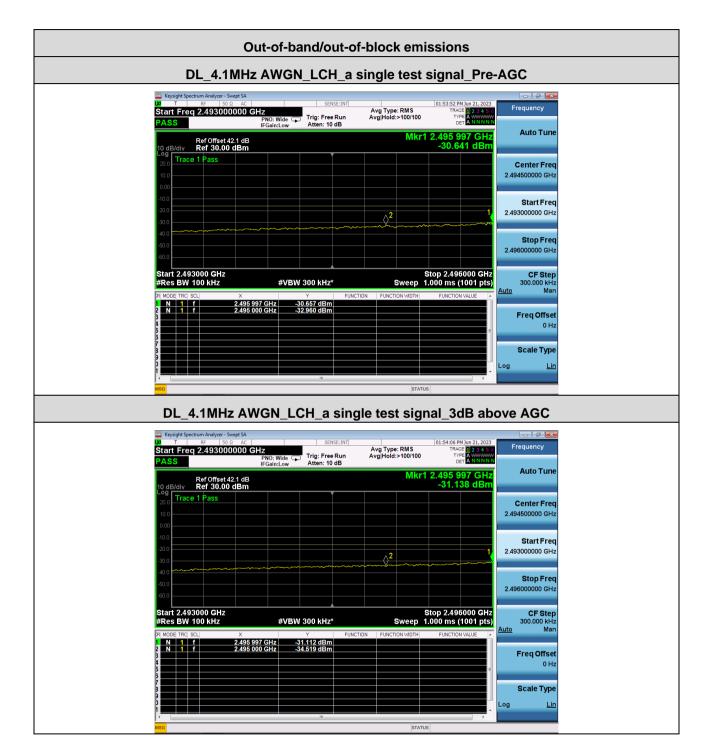
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#### Out-of-band/out-of-block emissions DL 4.1MHz AWGN LCH two adjacent test signals Pre-AGC Start Freq 2.493000000 GHz PNO: Wide IFGaint.ow Trig: Free Run Atten: 10 dB Avg Type: RMS Avg|Hold:>100/100 Auto Tune Ref Offset 42.1 dB Ref 30.00 dBm 2 494500000 GH: 2.493000000 GHz 2.496000000 GH: Stop 2.496000 GHz 1.000 ms (1001 pts) Start 2.493000 GHz #Res BW 100 kHz #VBW 300 kHz\* 2.496 000 GHz 2.495 000 GHz -30.568 dB -33.777 dB Freq Offset Scale Type DL\_4.1MHz AWGN\_LCH\_two adjacent test signals \_3dB above AGC Start Freq 2.493000000 GHz Avg Type: RMS Avg|Hold:>100/100 Auto Tune Ref Offset 42.1 dB Ref 30.00 dBm Center Freq Start Fred 2.493000000 GHz Stop Freq 2.496000000 GHz Start 2.493000 GHz #Res BW 100 kHz Stop 2.496000 GHz 1.000 ms (1001 pts) CF Step 300.000 kHz Man #VBW 300 kHz\* -30.083 dBn -34.262 dBn Freq Offset

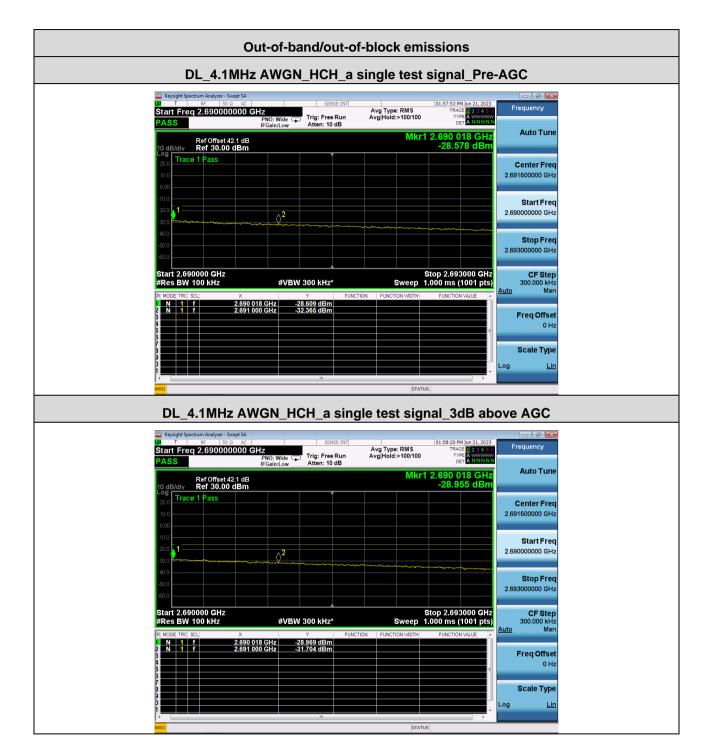


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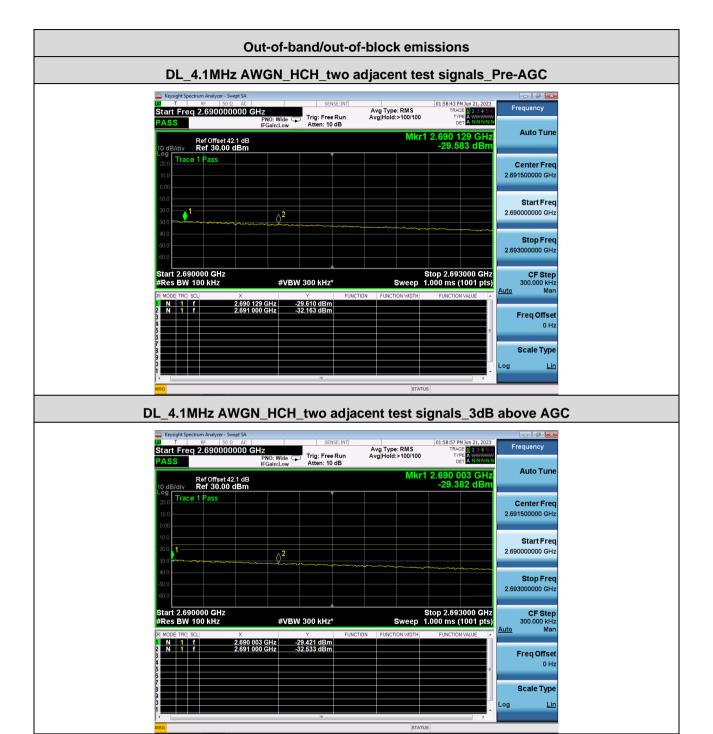


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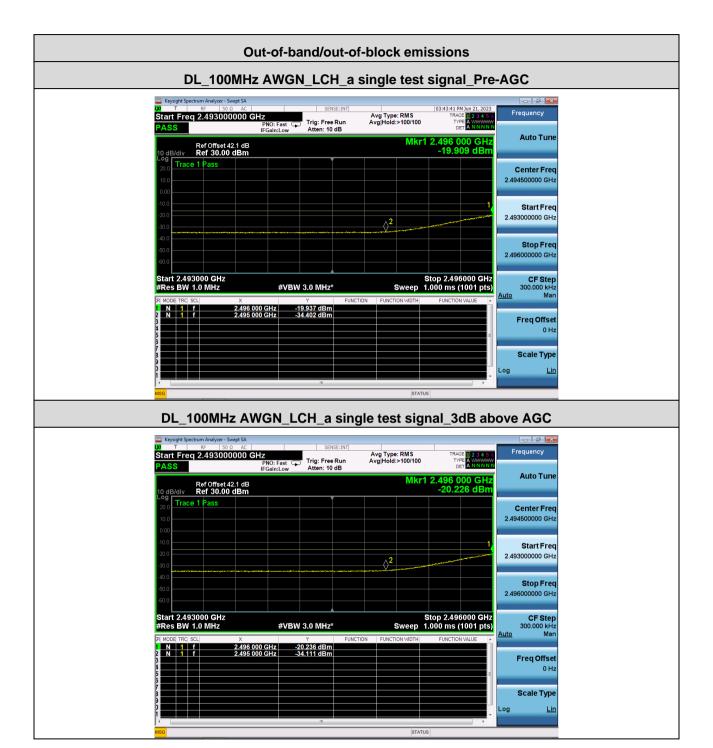


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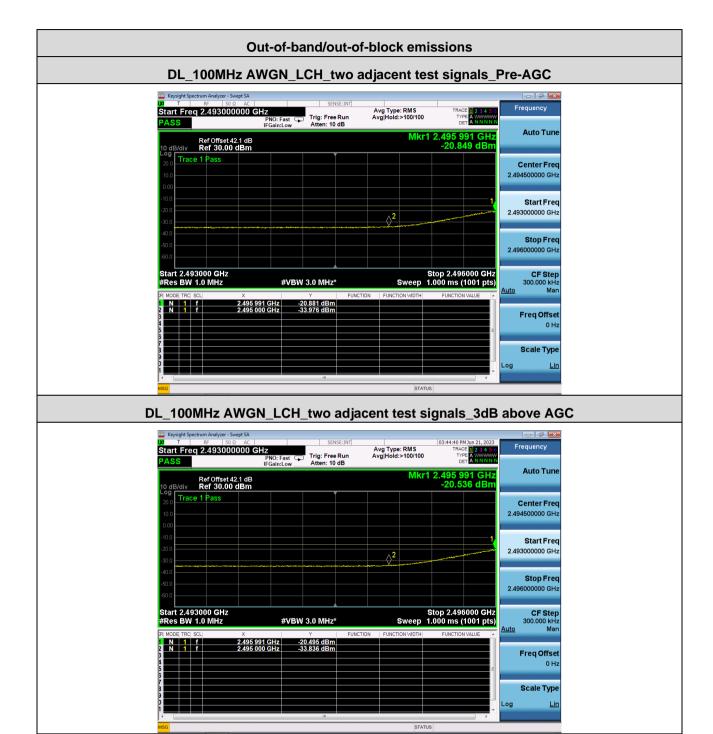


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#### Out-of-band/out-of-block emissions DL 100MHz AWGN HCH a single test signal Pre-AGC V T RF 50 Ω AC | Start Freq 2.690000000 GHz | PNO: Fast | | FGaint.ow | | FGaint.ow | | FREE | | Free Run | | Atten: 10 dB | Avg Type: RMS Avg|Hold:>100/100 Auto Tune Ref Offset 42.1 dB Ref 30.00 dBm 2.691500000 GH: 2 690000000 GHz 2.693000000 GH: Stop 2.693000 GHz 1.000 ms (1001 pts) Start 2.690000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz\* -21.125 dB -33.980 dB Scale Type DL\_100MHz AWGN\_HCH\_a single test signal\_3dB above AGC Start Freq 2.690000000 GHz Avg Type: RMS Avg|Hold:>100/100 Auto Tune Ref Offset 42.1 dB Ref 30.00 dBm Center Freq Start Freq 2.690000000 GHz $\Diamond^2$ Stop Fred 2.693000000 GHz Stop 2.693000 GHz 1.000 ms (1001 pts) Start 2.690000 GHz #Res BW 1.0 MHz CF Step 300.000 kHz Man #VBW 3.0 MHz\* -21.798 dBn -33.882 dBn Frea Offset Scale Type



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#### Out-of-band/out-of-block emissions DL 100MHz AWGN HCH two adjacent test signals Pre-AGC Start Freq 2.690000000 GHz PNO: Fast IFGainLow Atten: 10 dB Avg Type: RMS Avg|Hold:>100/100 Auto Tune Ref Offset 42.1 dB Ref 30.00 dBm 2.691500000 GH: 2 690000000 GHz 2.693000000 GH: Stop 2.693000 GHz 1.000 ms (1001 pts) Start 2.690000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz\* -22.378 dB -34.008 dB Scale Type DL\_100MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC Start Freq 2.690000000 GHz Avg Type: RMS Avg|Hold:>100/100 Auto Tune Ref Offset 42.1 dB Ref 30.00 dBm Center Freq Start Freq 2.690000000 GHz Stop Fred 2.693000000 GHz Stop 2.693000 GHz 1.000 ms (1001 pts) Start 2.690000 GHz #Res BW 1.0 MHz CF Step 300.000 kHz Man #VBW 3.0 MHz\* -22.681 dBn -33.933 dBn Frea Offset Scale Type

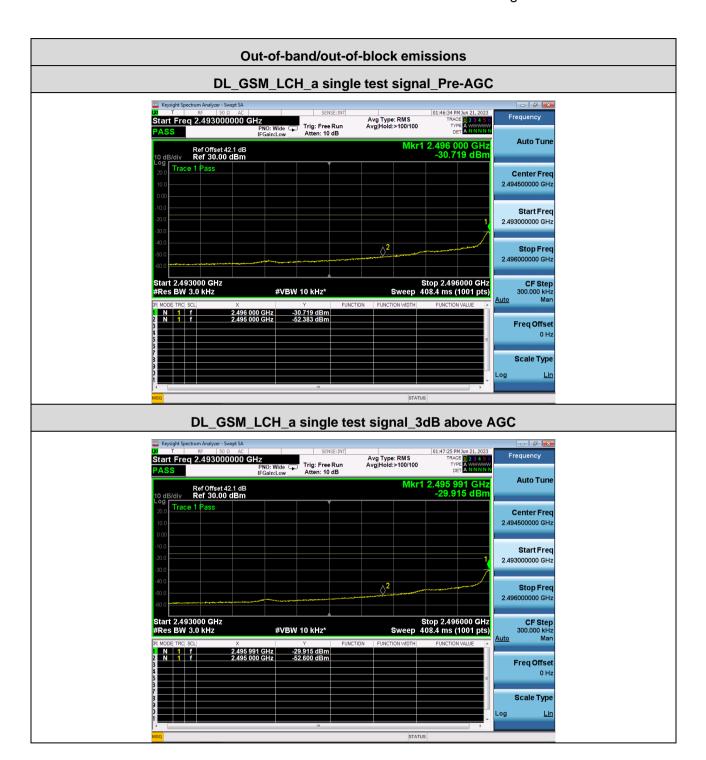


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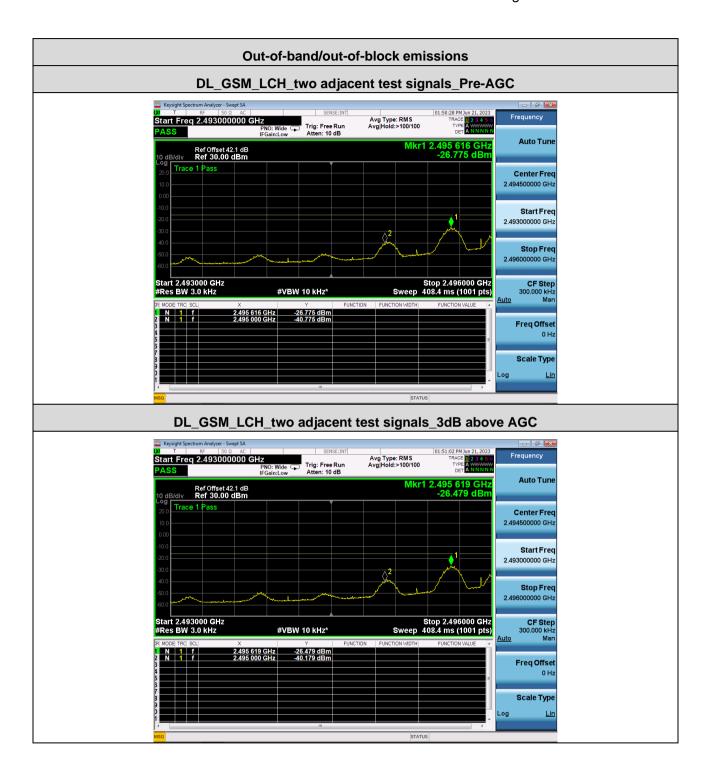


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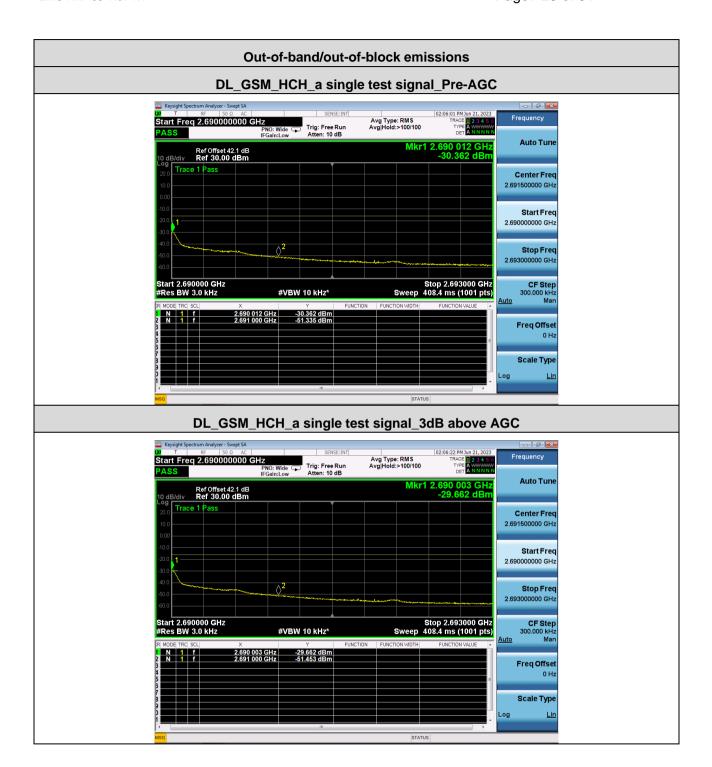


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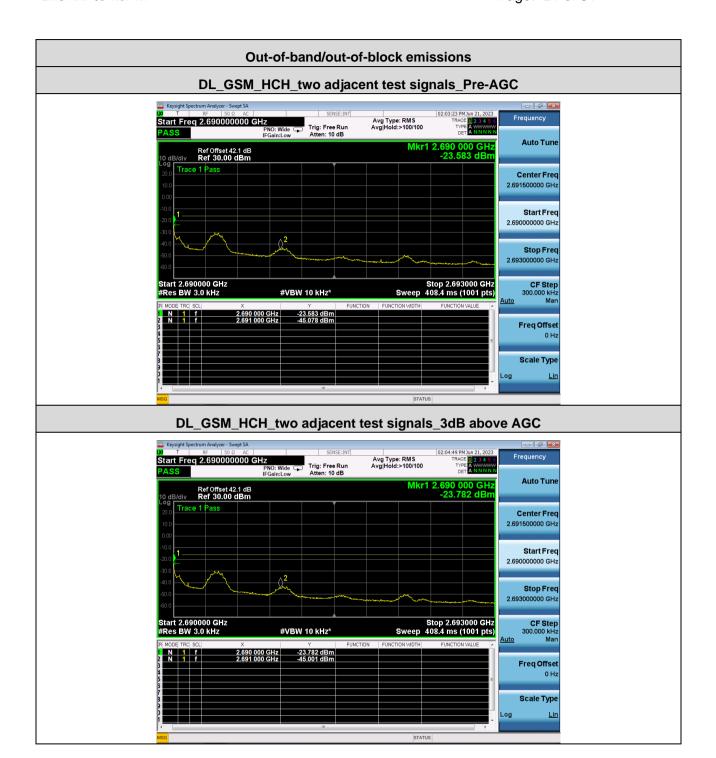


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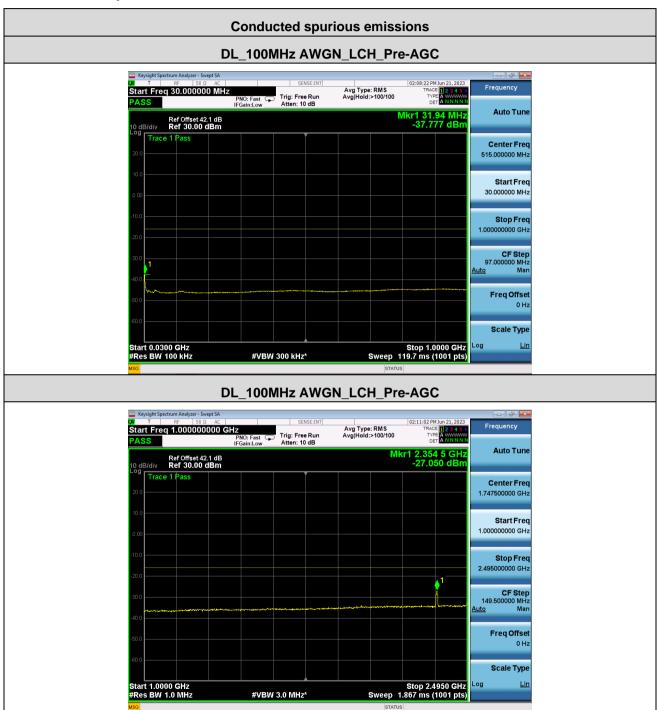
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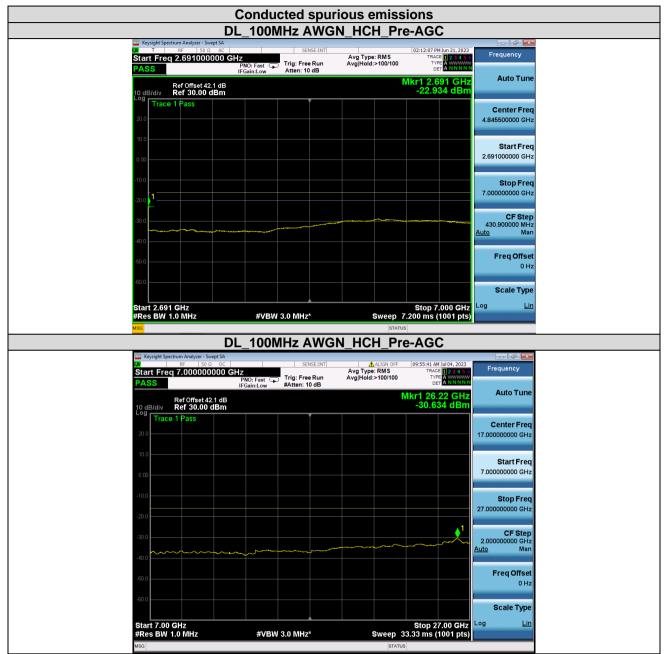
#### **5 Conducted Spurious emissions**







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#### Remark:

1. 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 + 10log10 (P) dB, here,

P = 39dBm = 7.95W,

the limit = 39dBm - [43 + 10 log10 (7.95W)] dB = -13dBm

- 2. For  $2\times2$  MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)=-16dBm to determine the test result conveniently.
- 3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
- 4. All modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.

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#### **6 Frequency Stability**

Frequency stability vs voltage									
Test path	Test Freq. (MHz)	Test Signal	I I AMPATATURA I VOITARA I '		Tolerance (ppm)	Verdict			
	2593	4.1MHz AWGN 100MHz AWGN	TN	VL	16	0.0062	PASS		
			TN	VH	10	0.0039	PASS		
			TN	VL	22	0.0085	PASS		
DL			TN	VH	14	0.0054	PASS		
		GSM	TN	VL	15	0.0058	PASS		
			TN	VH	20	0.0077	PASS		



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			Frequency stat	bility vs tempera	ture		
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
	(*****=/		VN	+50	23	0.0089	PASS
			VN	+40	12	0.0046	PASS
			VN	+30	9	0.0035	PASS
		4 4 5 4 1 1	VN	+20	17	0.0066	PASS
	2593	4.1MHz AWGN	VN	+10	22	0.0085	PASS
			VN	0	14	0.0054	PASS
			VN	-10	25	0.0096	PASS
			VN	-20	13	0.0050	PASS
			VN	-30	14	0.0054	PASS
	2593		VN	+50	24	0.0093	PASS
		100MHz AWGN	VN	+40	24	0.0093	PASS
			VN	+30	20	0.0077	PASS
			VN	+20	15	0.0058	PASS
DL			VN	+10	10	0.0039	PASS
			VN	0	14	0.0054	PASS
			VN	-10	23	0.0089	PASS
			VN	-20	9	0.0035	PASS
			VN	-30	13	0.0050	PASS
			VN	+50	21	0.0081	PASS
			VN	+40	27	0.0104	PASS
			VN	+30	23	0.0089	PASS
			VN	+20	24	0.0093	PASS
	2593	GSM	VN	+10	11	0.0042	PASS
			VN	0	22	0.0085	PASS
			VN	-10	23	0.0089	PASS
			VN	-20	16	0.0062	PASS
			VN	-30	14	0.0054	PASS



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#### 7 Radiated Spurious emissions

#### **Radiated Spurious emissions** DL\_4.1MHz AWGN\_MCH\_30MHz-1GHz -100 -100 -12030 -120 race: (Discrete) race: (Discrete) Factor Level Line Limit Pol/Phase Freq Level Factor Level Limit Pol/Phase Level Line dBm MHz dBm dB dBm dB MHz dB dB 54.643 -79.57 -13.00 -66.57 HORIZONTAL 66.034 -78.03 -6.40 -84.43 -71.43 VERTICAL 154.279 -78.85 -6.68 238.310 -78.78 -6.23 354.183 -77.40 -1.36 112.920 -77.50 -4.23 -81.73 188.413 -78.91 -4.24 -82.25 280.024 -76.91 -2.71 -79.62 506.479 -76.37 1.56 -74.81 -85.53 -85.01 -13.00 -13.00 -72.53 -72.01 HORIZONTAL HORIZONTAL -13.00 -13.00 -68.73 -69.25 -78.76 -13.00 -65.76 HORIZONTAL -13.00 -66.62 VERTICAL

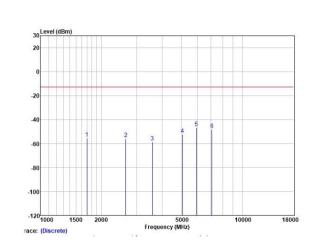




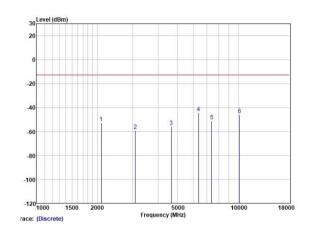
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#### **Radiated Spurious emissions**

#### DL\_4.1MHz AWGN\_MCH\_above 1GHz



		Read C	orrection	on	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	i <del></del>
1	1697.129	-61.99	6.36	-55.63	-13.00	-42.63	HORIZONTAL
2	2648.664	-61.41	5.21	-56.20	-13.00	-43.20	HORIZONTAL
3	3587.818	-63.07	4.32	-58.75	-13.00	-45.75	HORIZONTAL
4	5060.668	-64.02	11.60	-52.42	-13.00	-39.42	HORIZONTAL
5	5932.638	-63.71	16.77	-46.94	-13.00	-33.94	HORIZONTAL
6	7076.516	-67.55	19.16	-48.39	-13.00	-35.39	HORIZONTAL



		Read C	orrection	on	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	3 <del></del> 3
1	2089.751	-62.25	9.59	-52.66	-13.00	-39.66	VERTICAL
2	3087.140	-61.44	2.38	-59.06	-13.00	-46.06	VERTICAL
3	4667.241	-63.46	7.59	-55.87	-13.00	-42.87	VERTICAL
4	6358.789	-63.73	19.36	-44.37	-13.00	-31.37	VERTICAL
5	7390.070	-67.72	16.61	-51.11	-13.00	-38.11	VERTICAL
6	10126.820	-66.79	20.76	-46.03	-13.00	-33.03	VERTICAL





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#### Radiated Spurious emissions DL 4.1MHz AWGN MCH above 1GHz -100 -100 Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Read Correction Pol/Phase Pol/Phase Freq Level Factor Level Line Limit Level Factor Level Line Limit dB dB 19746.940 -89.03 -50.66 -13.00 -37.66 HORTZONTAL 19621.200 -88.68 34.50 -54.18 -13.00 -41.18 VERTICAL 21611.600 22963.740 -91.18 -92.33 38.68 -52.50 -53.10 -13.00 -13.00 -39.50 -40.10 20999.190 22599.920 -91.60 -91.02 35.42 36.67 -56.18 -54.35 -43.18 -41.35 VERTICAL VERTICAL HORIZONTAL -13.00 23937.330 -92.81 39.37 -53.44 -13.00 -40.44 HORTZONTAL 23464.210 -91.26 37.14 -54.12 -13.00 -41.12 VERTICAL 37.38 37.66 39.61

#### Remark

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals). The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

-- End of Appendix--



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