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FCC ID: OJFDMRUG2678

Appendix -

Test Data and Result for report GZCR230600056702

(For 600MHz Service Band DL)



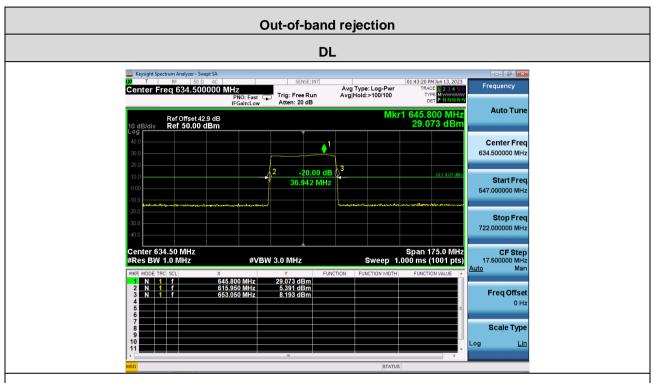
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1 Out-of-band rejection



The peak of the frequency response f0 is 645.8MHz.

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 Channel	Signal Level	Verdict					
	4.1MHz AWGN	MCH	Pre-AGC	PASS					
		WOIT	3dB above AGC	PASS					
	100MHz	MCH	Pre-AGC	PASS*					
DL	AWGN	IVICIT	3dB above AGC	PASS*					
		MCH	Pre-AGC	PASS					
	GSM	IVICH	3dB above AGC	PASS					

Remark:

- * 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.



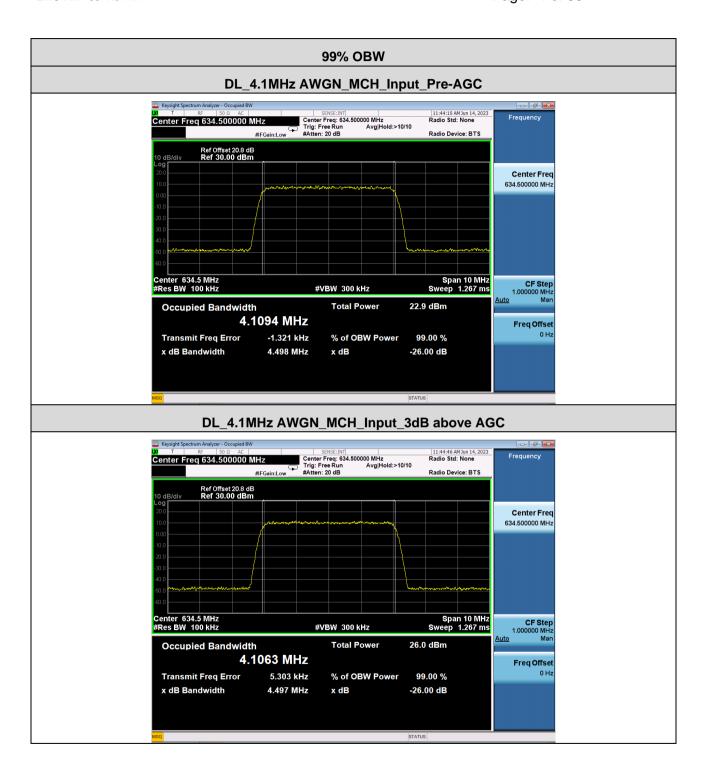
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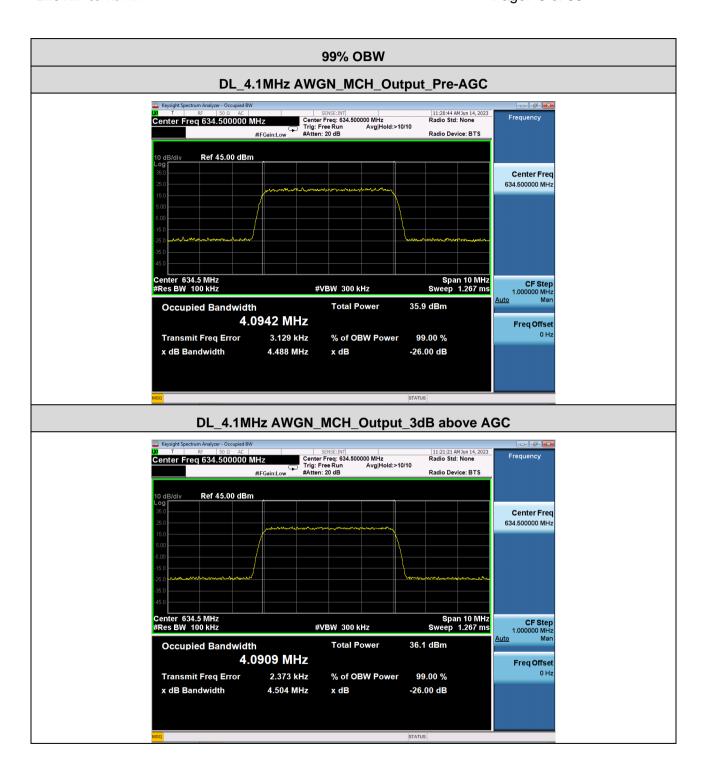


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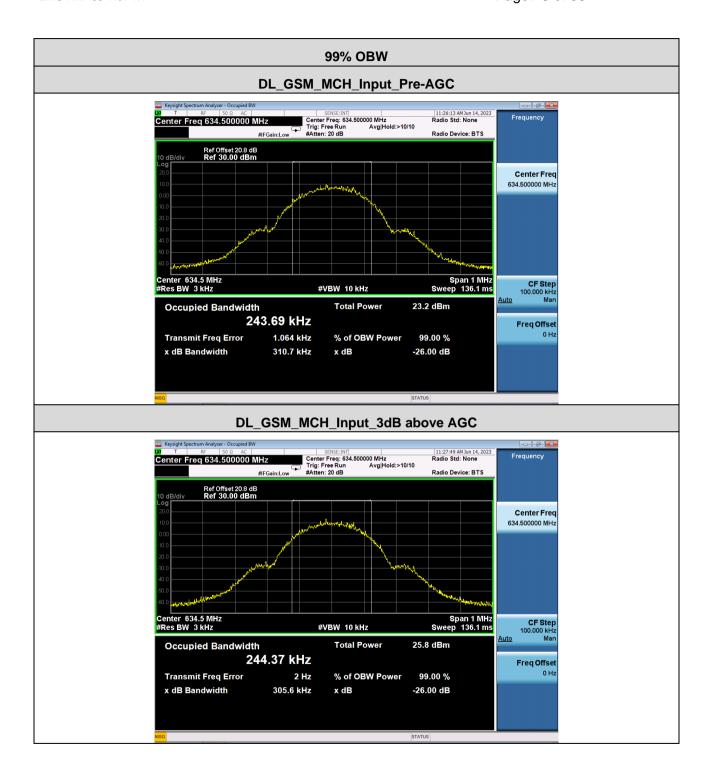


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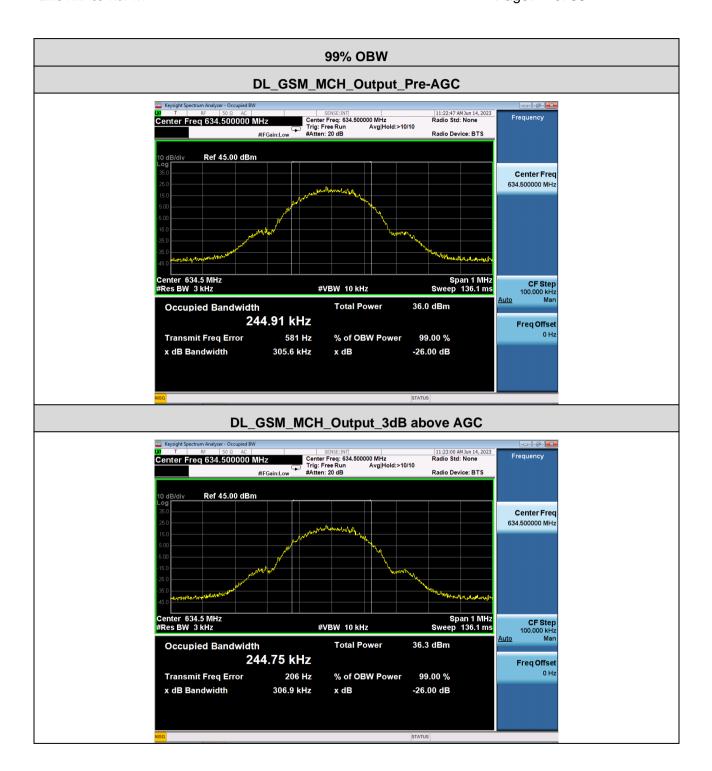


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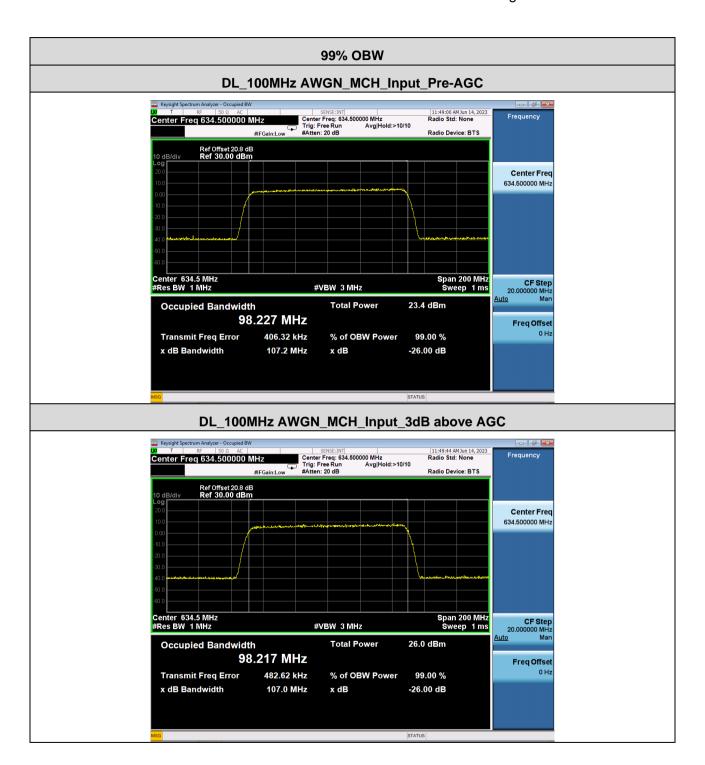


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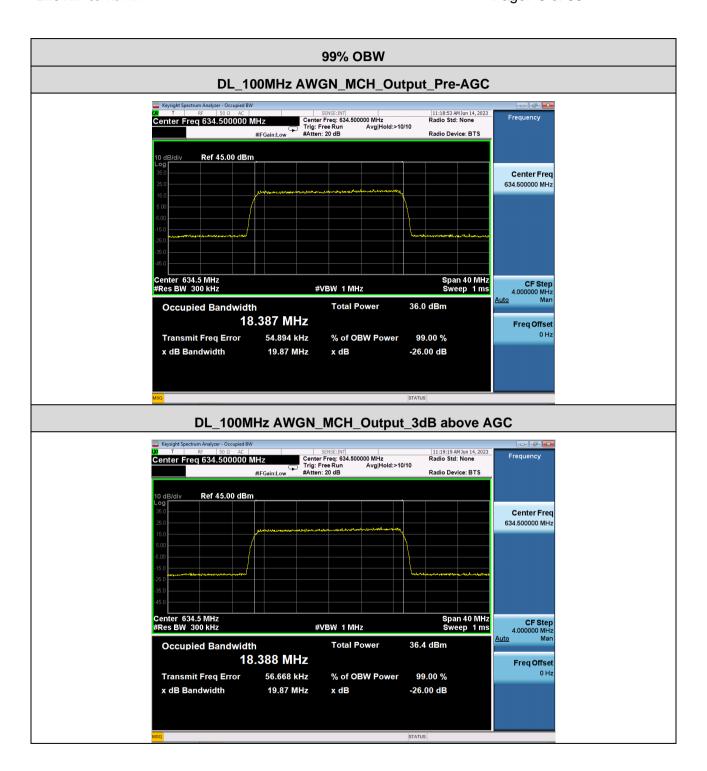


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3 Mean output power and amplifier/booster gain

Mean output power and gain											
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO ERP (W)	Total ERP (W)	Gain (dB)			
		4.1MHz AWGN 100MHz AWGN GSM	Pre-AGC	23.00	36.62	27.99	111.95	13.62			
			3dB above AGC	26.00	36.33	26.19	104.72	/			
			Pre-AGC	18.00	31.66	8.94	35.73	13.66			
DL	645.8		3dB above AGC	21.00	31.43	8.48	33.89	/			
			Pre-AGC	23.00	35.59	22.09	88.31	12.59			
			3dB above AGC	26.00	35.99	24.22	96.83	/			

Remark:

- 1. f0 is from Out-of-band Rejection test in the report.
- 2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 13dBi.
- 3. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.

	Mean output power										
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO ERP (W/MHz)	Total ERP (W/MHz)	Verdict				
		4.1MHz	Pre-AGC	30.52	6.88	27.48	PASS				
		AWGN 100MHz AWGN	3dB above AGC	30.16	6.33	25.30	PASS				
			Pre-AGC	19.21	0.51	2.04	PASS				
DL	645.8		3dB above AGC	19.05	0.49	1.96	PASS				
			Pre-AGC	35.59	22.09	88.31	PASS				
		GSM	3dB above AGC	35.99	24.22	96.83	PASS				

Remark:

- 1. f0 is from Out-of-band Rejection test in the report.
- 2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 13dBi.
- 3. The output power is limited to an ERP of 1000W/MHz.
- 4. 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	-27.52		PASS				
	LCH		input	3dB above AGC	-27.21		PASS				
	LCH		Two signals	Pre-AGC	-33.93		PASS				
DI.		4.1MHz	input	3dB above AGC	-33.96	. 10	PASS				
DL		AWGN	One signal	Pre-AGC	-29.36	≤-16	PASS				
	ПСП		input	3dB above AGC	-29.26		PASS				
	HCH		Two signals	Pre-AGC	-33.94		PASS				
			input	3dB above AGC	-34.20		PASS				
			One signal	Pre-AGC	-19.88		PASS				
	1.011		input	3dB above AGC	-20.28		PASS				
	LCH		Two signals	Pre-AGC	-21.37		PASS				
DI.		100MHz	input	3dB above AGC	-21.84	. 10	PASS				
DL		AWGN		Pre-AGC	-19.27	≤-16	PASS				
	LICH			3dB above AGC	-18.95		PASS				
	HCH			Pre-AGC	-20.59		PASS				
				3dB above AGC	-21.13		PASS				

Remark:

P = 36dBm = 3.98W

the limit = $36dBm - [43 + 10 \log 10 (3.98W)] dB = -13dBm$

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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^{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,



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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	-22.79		PASS		
	1.011		input	3dB above AGC	-23.66		PASS		
	LCH		Two signals input One signal input	Pre-AGC	-26.66		PASS		
5.				3dB above AGC	-25.37		PASS		
DL		HCH GSM		Pre-AGC	-24.73	≤-16	PASS		
	11011			3dB above AGC	-24.61		PASS		
	псн		Two signals input	Pre-AGC	-27.67		PASS		
				3dB above AGC	-26.35		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 = 36dBm = 3.98W

the limit = 36dBm - [43 + 10 log10 (3.98W)] 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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Out-of-band/out-of-block emissions DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 616.850000 MH: 616.700000 MHz 617.000000 MH: Start 616.7000 MHz #Res BW 100 kHz #VBW 300 kHz* DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 616.700000 MHz Stop Freq 617.000000 MH Start 616.7000 MHz #Res BW 100 kHz Stop 617.0000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* -27.239 dBm -28.376 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 616.850000 MH: 616.700000 MHz 617.000000 MH: Start 616.7000 MHz #Res BW 100 kHz Stop 617.0000 MHz 1.000 ms (1001 pts) #VBW 300 kHz* Scale Type DL_4.1MHz AWGN_LCH_two adjacent test signals _3dB above AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 616.700000 MHz Stop Freq 617.000000 MH Start 616.7000 MHz #Res BW 100 kHz Stop 617.0000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* -34.003 dBm -34.188 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC Start Freq 652.000000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 652.150000 MH: Start Fred 652.000000 MHz 652.300000 MH: Start 652.0000 MHz #Res BW 100 kHz Stop 652.3000 MHz 1.000 ms (1001 pts) #VBW 300 kHz* DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC Start Freq 652.000000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 652.000000 MHz Stop Freq 652.300000 MH Start 652.0000 MHz #Res BW 100 kHz Stop 652.3000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* 652.066 3 MHz 652.100 0 MHz -29.270 dBm -30.017 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL 4.1MHz AWGN HCH two adjacent test signals Pre-AGC Start Freq 652.000000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 652.150000 MH: Start Fred 652.000000 MHz 652.300000 MH: Start 652.0000 MHz #Res BW 100 kHz Stop 652.3000 MHz 1.000 ms (1001 pts) #VBW 300 kHz* Scale Type DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC Start Freq 652.000000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 652.000000 MHz Stop Freq 652.300000 MH Start 652.0000 MHz #Res BW 100 kHz Stop 652.3000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* -34.213 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_100MHz AWGN_LCH_a single test signal_Pre-AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 616.850000 MH: 616.700000 MH: 617.000000 MH: Start 616.7000 MHz #Res BW 100 kHz #VBW 300 kHz* -19.904 dBr -27.373 dBr DL_100MHz AWGN_LCH_a single test signal_3dB above AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 616.700000 MHz Stop Freq 617.000000 MH Start 616.7000 MHz #Res BW 100 kHz Stop 617.0000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* -20.352 dBm -27.086 dBm Freq Offset Scale Type



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Out-of-band/out-of-block emissions DL_100MHz AWGN_LCH_two adjacent test signals_Pre-AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 616.850000 MH: 616.700000 MHz 617.000000 MH: Start 616.7000 MHz #Res BW 100 kHz #VBW 300 kHz* Scale Type DL_100MHz AWGN_LCH_two adjacent test signals_3dB above AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 616.700000 MHz Stop Freq 617.000000 MH Start 616.7000 MHz #Res BW 100 kHz Stop 617.0000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 300 kHz* -21.841 dBm -27.935 dBm 616.999 1 MHz 616.900 0 MHz Freq Offset Scale Type

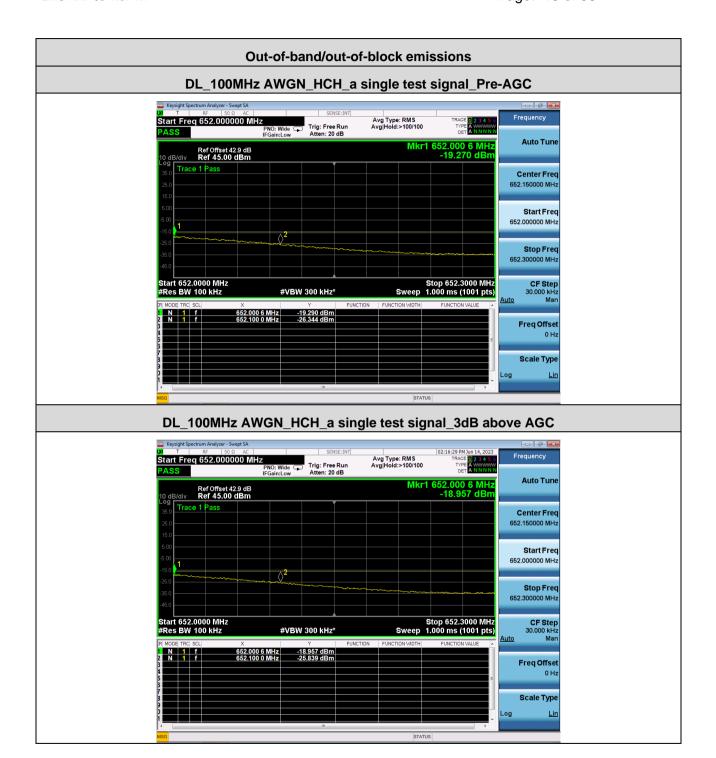


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Out-of-band/out-of-block emissions DL 100MHz AWGN HCH two adjacent test signals Pre-AGC Start Freq 652.000000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 652.150000 MH: Start Fred 652.000000 MHz 652.300000 MH: Start 652.0000 MHz #Res BW 100 kHz Stop 652.3000 MHz 1.000 ms (1001 pts) #VBW 300 kHz* Scale Type DL_100MHz AWGN_HCH_two adjacent test signals_3dB above AGC Start Freq 652.000000 MHz Avg Type: RMS Avg|Hold:>100/100 **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 652.000000 MHz Stop Freq 652.300000 MH Start 652.0000 MHz #Res BW 100 kHz Stop 652.3000 MHz Sweep 1.000 ms (1001 pts) CF Step 30,000 kHz #VBW 300 kHz* -21.049 dBm -27.454 dBm 652.000 6 MHz 652.100 0 MHz Freq Offset Scale Type

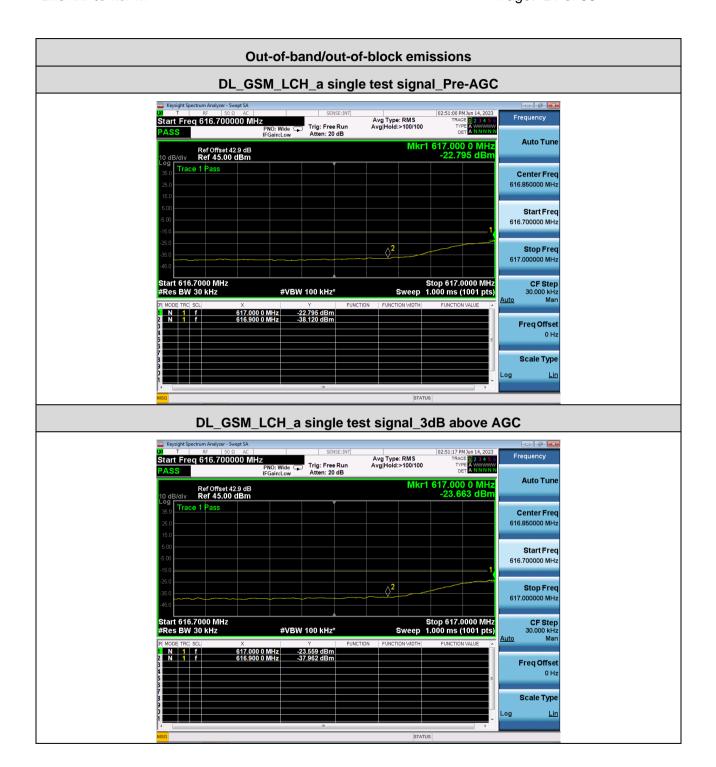


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Out-of-band/out-of-block emissions DL GSM LCH two adjacent test signals Pre-AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 PNO: Wide Trig: Free Run Ref Offset 42.9 dB Ref 45.00 dBm Center Fred 616.850000 MH: 616.700000 MHz 617.000000 MH: Start 616.7000 MHz #Res BW 30 kHz #VBW 100 kHz* DL_GSM_LCH_two adjacent test signals_3dB above AGC Start Freq 616.700000 MHz Avg Type: RMS Avg|Hold:>100/100 Trig: Free Run Atten: 20 dB **Auto Tune** Ref Offset 42.9 dB Ref 45.00 dBm Center Freq Start Freq 616.700000 MHz Stop Freq 617.000000 MH Start 616.7000 MHz #Res BW 30 kHz Stop 617.0000 MHz Sweep 1.000 ms (1001 pts) CF Step 30.000 kHz Man #VBW 100 kHz* -25.366 dBm -38.569 dBm Freq Offset Scale Type

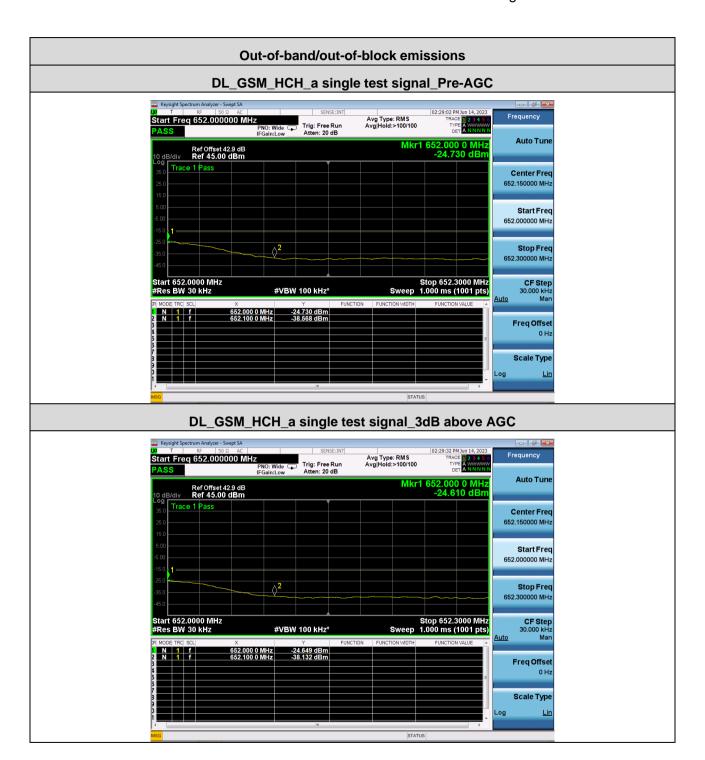


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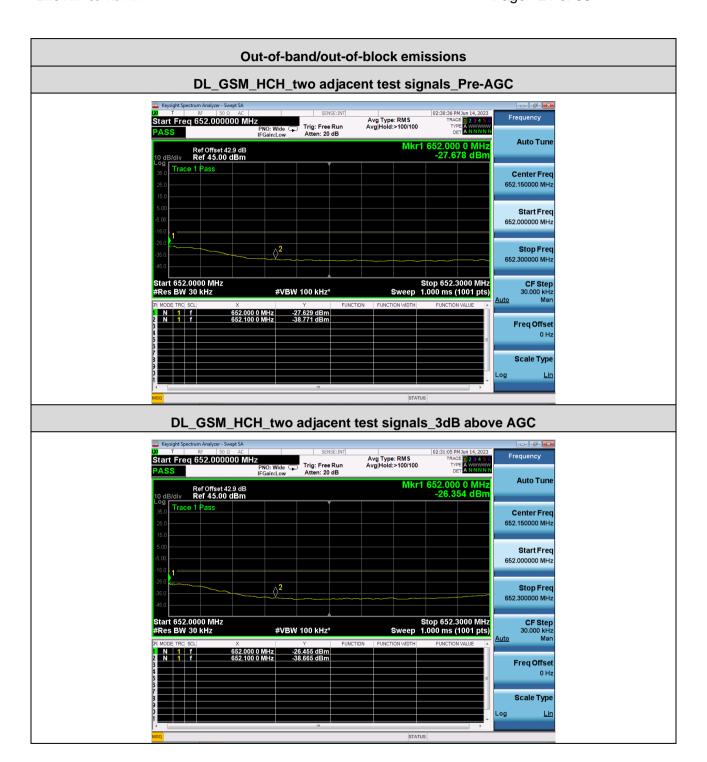


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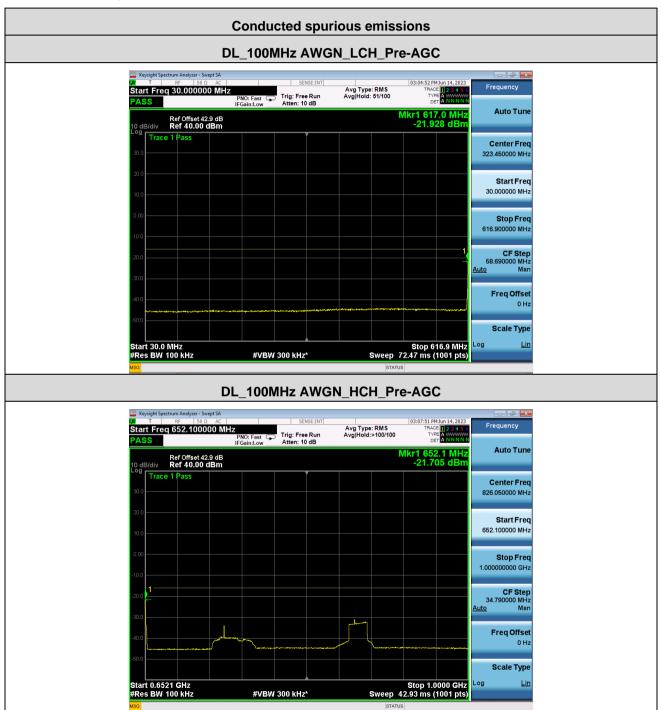
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5 Conducted Spurious emissions







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Conducted spurious emissions

DL 100MHz AWGN HCH Pre-AGC



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 = 36dBm = 3.98W,

the limit = 36dBm - [43 + 10 log10 (3.98W)] 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.
- 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	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict		
		4.1MHz	TN	VL	15	0.0236	PASS		
		AWGN	TN	VH	19	0.0299	PASS		
	624 5	100MHz AWGN	TN	VL	21	0.0331	PASS		
DL	634.5		TN	VH	17	0.0268	PASS		
		GSM	TN	VL	18	0.0284	PASS		
			TN	VH	22	0.0347	PASS		



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Frequency stability vs temperature										
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict			
			VN	+50	21	0.0331	PASS			
			VN	+40	24	0.0378	PASS			
			VN	+30	18	0.0284	PASS			
		4.4541.1	VN	+20	15	0.0236	PASS			
	634.5	4.1MHz AWGN	VN	+10	20	0.0315	PASS			
			VN	0	22	0.0347	PASS			
			VN	-10	16	0.0252	PASS			
			VN	-20	23	0.0362	PASS			
			VN	-30	21	0.0331	PASS			
			VN	+50	27	0.0426	PASS			
		100MHz AWGN	VN	+40	24	0.0378	PASS			
			VN	+30	19	0.0299	PASS			
			VN	+20	20	0.0315	PASS			
DL	634.5		VN	+10	17	0.0268	PASS			
			VN	0	14	0.0221	PASS			
			VN	-10	17	0.0268	PASS			
			VN	-20	18	0.0284	PASS			
			VN	-30	19	0.0299	PASS			
			VN	+50	14	0.0221	PASS			
			VN	+40	17	0.0268	PASS			
			VN	+30	20	0.0315	PASS			
			VN	+20	22	0.0347	PASS			
	634.5	GSM	VN	+10	24	0.0378	PASS			
			VN	0	19	0.0299	PASS			
			VN	-10	15	0.0236	PASS			
			VN	-20	14	0.0221	PASS			
			VN	-30	20	0.0315	PASS			



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7 Radiated Spurious emissions

Radiated Spurious emissions DL 4.1MHz AWGN MCH 30MHz-1GHz -12030 -120 200 Frequency (MHz) Frequency (MHz) race: (Discrete) race: (Discrete) Read Correction Limit Read Correction Limit Factor Level Line Limit Pol/Phase Factor Level Line Limit Pol/Phase MHz dB MHz dBm dB 48.163 108.647 -58.73 -72.42 -71.29 VERTICAL VERTICAL 58.613 -77.45 -2.50 -76.03 -10.25 -78.44 -3.93 -77.11 -2.29 -76.85 1.92 -76.77 5.09 -9.14 -7.48 -73.28 -13.00 HORIZONTAL 80.644 -86.28 -82.37 -13.00 -76.28 219.075 -76.81 -84.29 -13.00 HORIZONTAL 121.549 -13.00 -69.37 VERTICAL -76.36 -76.14 -75.79 -79.40 -74.93 -71.68 369.405 515.437 -1.26 0.44 -77.62 -75.70 HORIZONTAL HORIZONTAL 336.035 494.199 -13.00 -13.00 -66.40 -61.93 VERTICAL VERTICAL 779.607 6.08 -69.71 -13.00 -56.71 HORIZONTAL VERTICAL

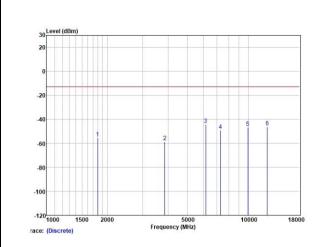




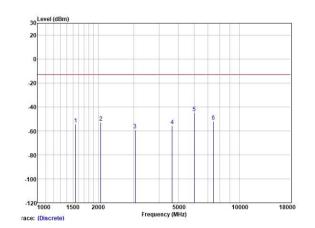
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Radiated Spurious emissions

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	÷
1	1792.937	-61.10	5.68	-55.42	-13.00	-42.42	HORIZONTAL
2	3856.668	-61.84	3.10	-58.74	-13.00	-45.74	HORIZONTAL
3	6159.797	-63.54	19.07	-44.47	-13.00	-31.47	HORIZONTAL
4	7263.015	-66.97	17.89	-49.08	-13.00	-36.08	HORIZONTAL
5	9952.717	-66.60	19.82	-46.78	-13.00	-33.78	HORIZONTAL
6	12397.740	-69.43	23.01	-46.42	-13.00	-33.42	HORIZONTAL



		Read C	orrection	on	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	3
1	1542.733	-60.63	6.14	-54.49	-13.00	-41.49	VERTICAL
2	2059.767	-61.70	8.82	-52.88	-13.00	-39.88	VERTICAL
3	3042.846	-61.91	2.88	-59.03	-13.00	-46.03	VERTICAL
4	4653.771	-62.89	7.34	-55.55	-13.00	-42.55	VERTICAL
5	5984.305	-63.85	19.06	-44.79	-13.00	-31.79	VERTICAL
6	7454.429	-68.73	16.57	-52.16	-13.00	-39.16	VERTICAL

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, the spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case in this report.

-- End of Appendix--



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