

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Page: 1 of 30 EMC-ARF-05 Rev 1.1 FCC ID: OJFDHRU-G2-25

Appendix -

Test Data and Result for report GZCR240300025502



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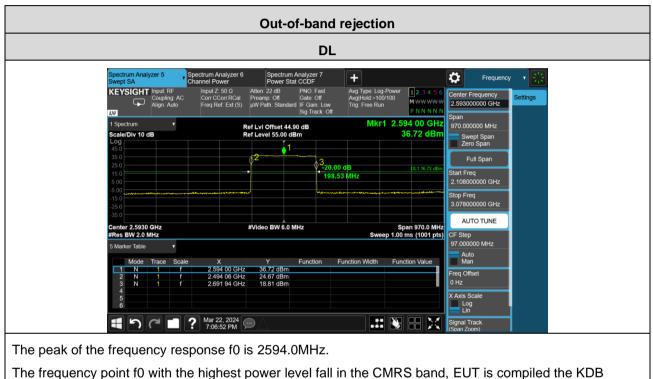


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Remark: Manufacture declared the product support 2X2 MIMO with identical PCB layout/component use/Tune up that make sure each antenna port with identical RF output, so the test only performed at one of the antenna ports in this report.

1 Out-of-band rejection



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 Signal	Test Channel	Signal Level	Verdict				
4.1MHz AWGN 100MHz	МСН	Pre-AGC	PASS				
	WOIT	3dB above AGC	PASS				
	МСН	Pre-AGC	PASS				
AWGN	WOIT	3dB above AGC	PASS				
	МСН	Pre-AGC	PASS				
GSM	WOIT	3dB above AGC	PASS				
	4.1MHz AWGN 100MHz	Test SignalTest Channel4.1MHz AWGNMCH100MHz AWGNMCH	Test SignalTest ChannelSignal Level4.1MHz AWGNMCHPre-AGC3dB above AGC3dB above AGC100MHz AWGNMCHPre-AGC3dB above AGC3dB above AGCGSMMCHPre-AGC				

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.



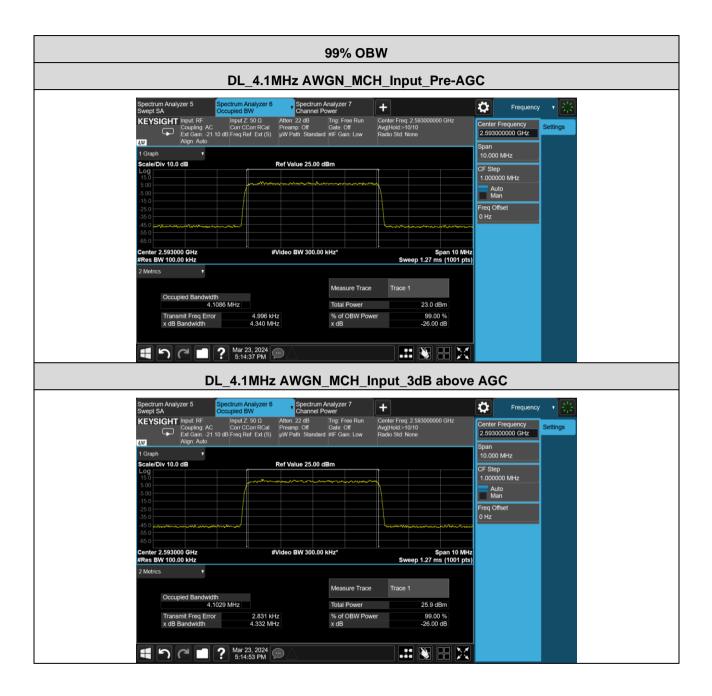
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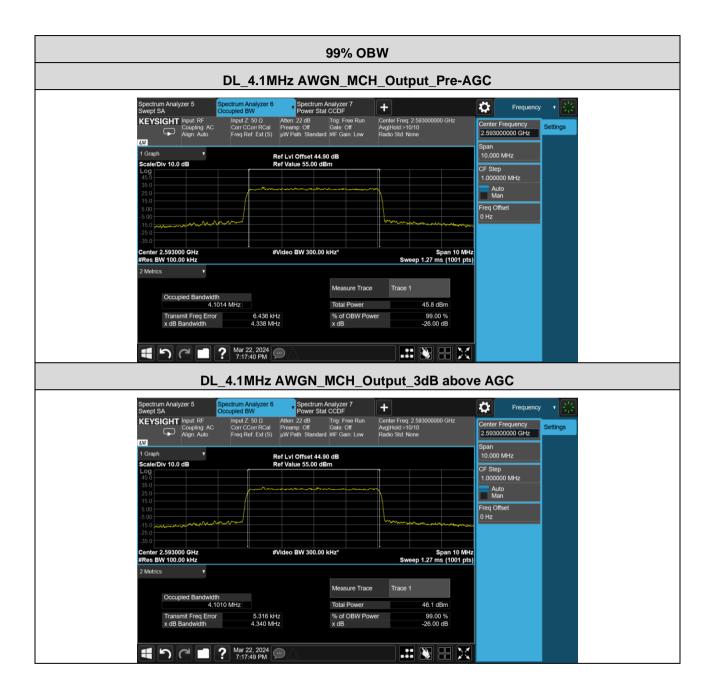
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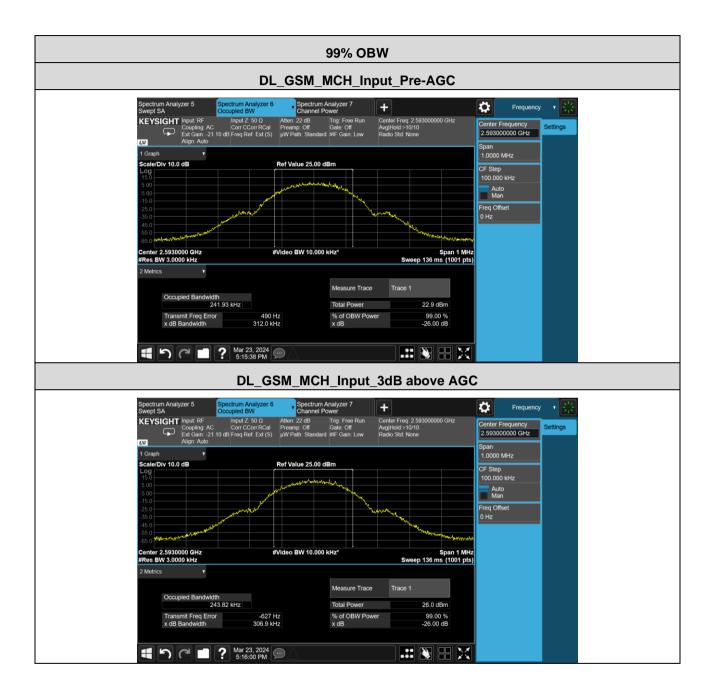
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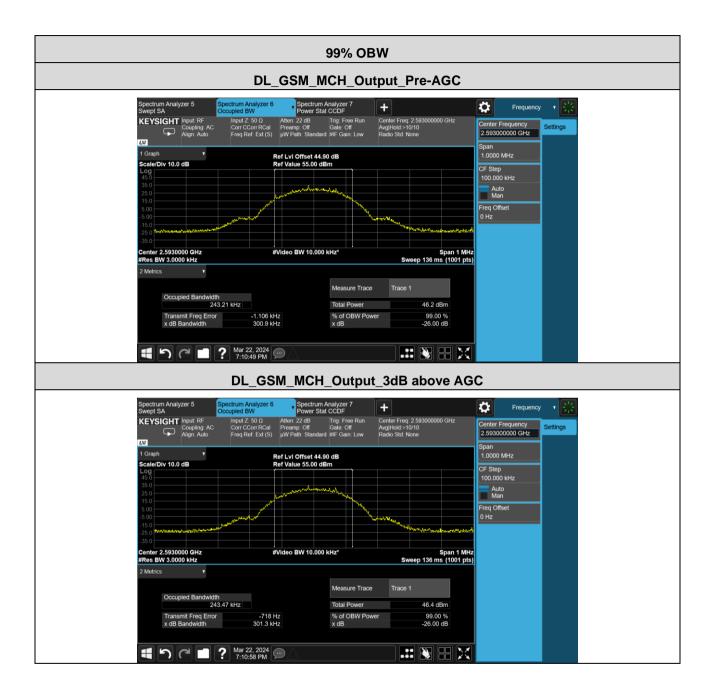
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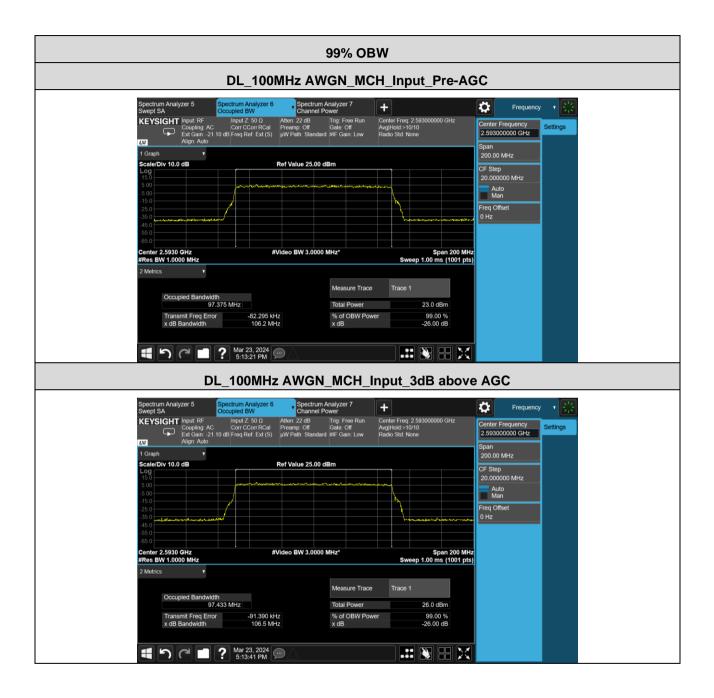
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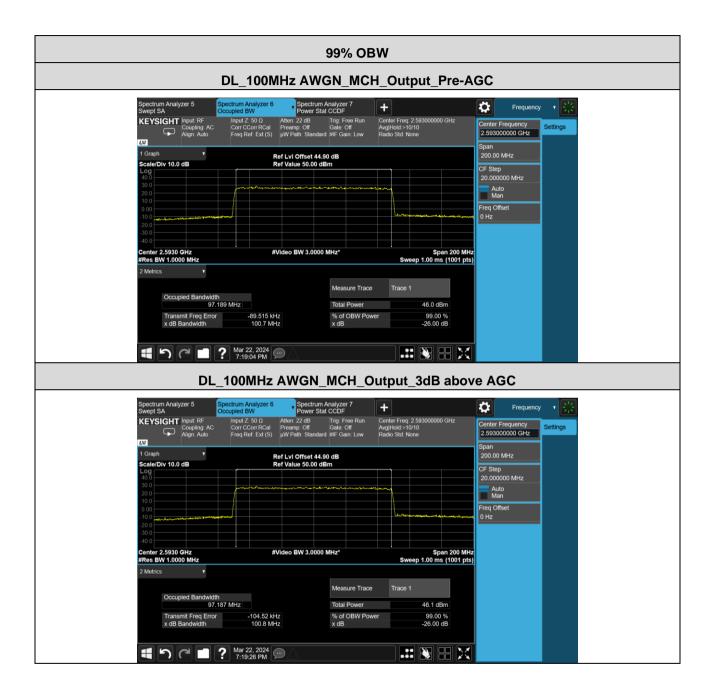
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3 Output power and amplifier/booster gain

	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		
	DL 2594.0	4.1MHz AWGN	Pre-AGC	23.00	45.96	124.74	498.89	22.96	PASS		
			3dB above AGC	26.00	46.34	136.15	544.51	/	PASS		
		AWGN	Pre-AGC	23.00	46.69	147.58	590.21	23.69	PASS		
DL			3dB above AGC	26.00	46.41	138.36	553.36	/	PASS		
			Pre-AGC	23.00	46.54	142.57	570.17	23.54	PASS		
	GSM	3dB above AGC	26.00	46.13	129.72	518.81	/	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 5dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 8dBi.

3. For main or booster station sectorizes or otherwise uses one or more transmitting antennas with a nonomnidirectional 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 < 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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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	-24.78		PASS					
	LCH		input	3dB above AGC	-22.97		PASS					
	LCH		Two signals	Pre-AGC	-28.27		PASS					
		4.1MHz	input	3dB above AGC	-29.49		PASS					
DL		AWGN	One signal	Pre-AGC	-23.22	≤-16 -	PASS					
			input	3dB above AGC	-24.54		PASS					
НСН	нсн		Two signals input	Pre-AGC	-26.74		PASS					
				3dB above AGC	-26.83		PASS					
		100MHz	One signal	Pre-AGC	-19.02		PASS					
			input	3dB above AGC	-19.51		PASS					
	LCH							Two signals	Pre-AGC	-21.11		PASS
			input	3dB above AGC	-20.22	≤-16	PASS					
DL		AWGN		Pre-AGC	-17.09		PASS					
				3dB above AGC	-16.90		PASS					
	HCH		Two signals	Pre-AGC	-19.95		PASS					
			input	3dB above AGC	-19.38		PASS					

4 Out-of-band/out-of-block(including intermodulation) emissions

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 = 46 dBm = 39.82W

the limit = 46dBm - [43 + 10 log10 (39.82W)] dB = -13dBm

2. For 2x2 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(including intermodulation) emissions									
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict		
DL HCH			One signal input	Pre-AGC	-32.82	≤-16	PASS		
				3dB above AGC	-33.03		PASS		
	LCH		Two signals input	Pre-AGC	-29.97		PASS		
				3dB above AGC	-29.62		PASS		
		GSM	One signal input	Pre-AGC	-29.61		PASS		
				3dB above AGC	-29.77		PASS		
	псп		Two signals input	Pre-AGC	-33.13		PASS		
				3dB above AGC	-32.96		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 = 46 dBm = 39.82W

the limit = 46dBm - [43 + 10 log10 (39.82W)] dB = -13dBm

2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



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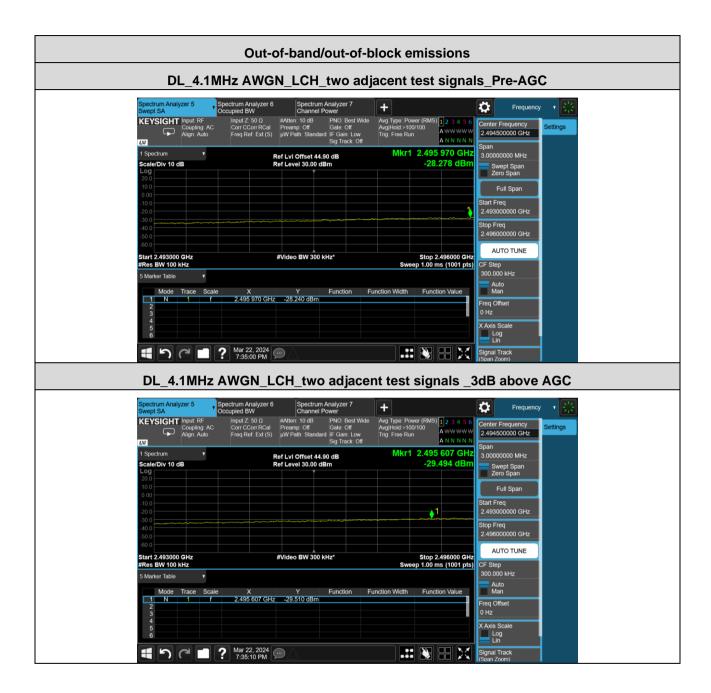
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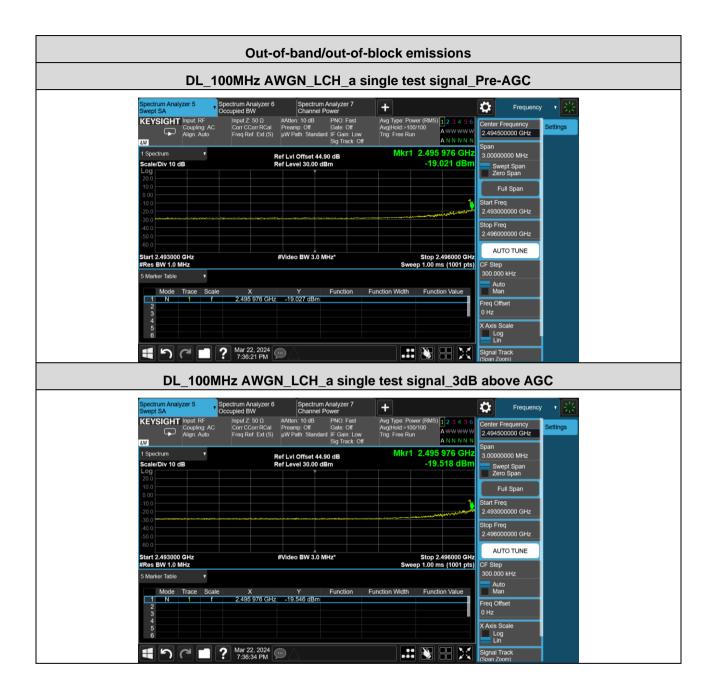
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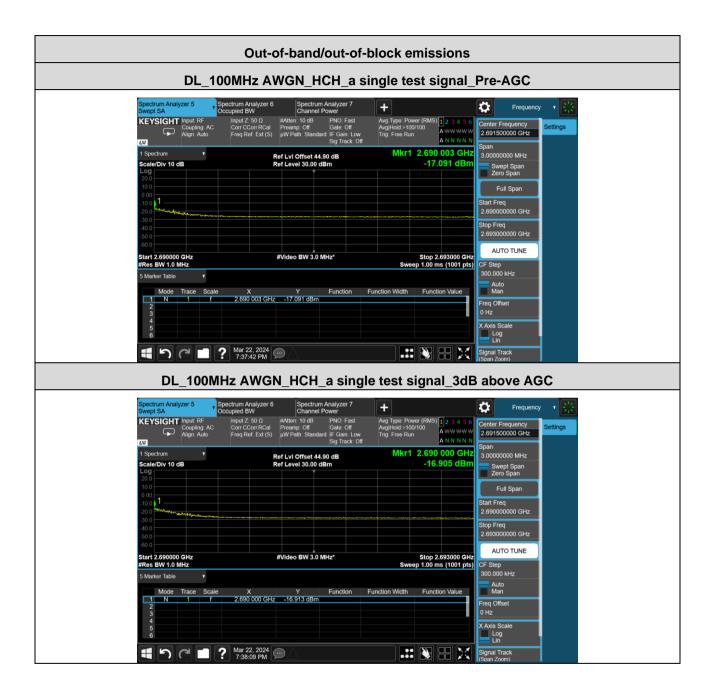
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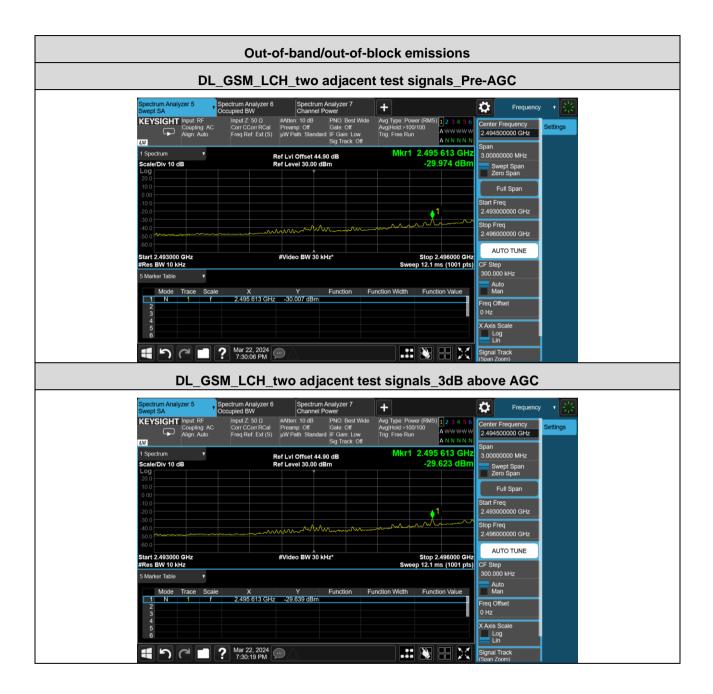
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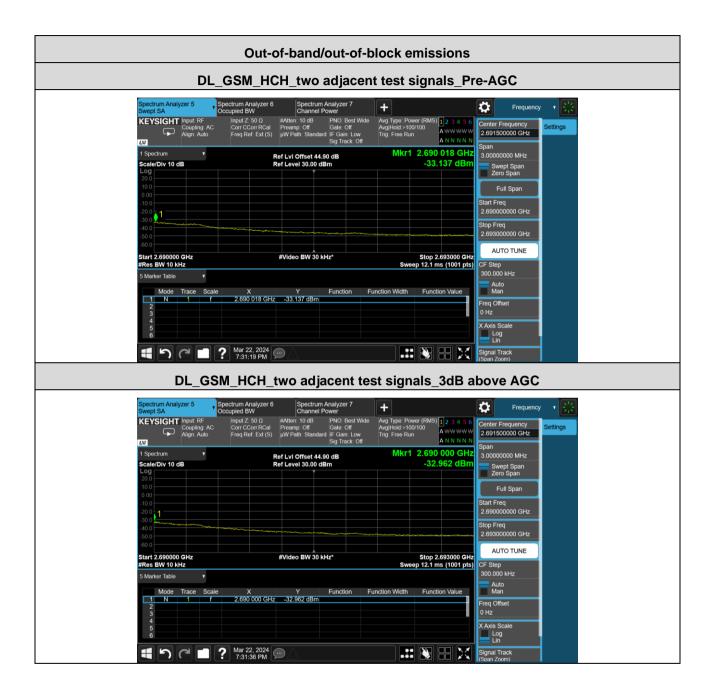
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Conducted spurious emissions DL 100MHz AWGN LCH Pre-AGC + Ċ ım Ana ed BW Frequency Spectrum Ar Channel Po at SA KEYSIGHT Input RF Avg Type Avg|Hold Tria: Free 12345 Settings Center Frequency 515.000000 MHz Preamp: µW Path: \mathbf{r} ANNNN pan 970.000000 MHz 903.97 MH Ref LvI Offset 44.90 dB Ref Level 30.00 dBm cale/Div 10 dB Swept Spar Zero Span Trace Start Freq 30.000000 MHz top Freq .000000 9 00000 GHz AUTO TUNE #Video BW 300 kHz Stop 1.0000 GH Start 0.0300 GHz #Res BW 100 kHz S١ -46.7 ms (1001 pts) JF Step 97.000000 MHz Marker Table Auto Man Mode Trace Scale Function Function Width Function Value X Y 903.97 MHz -47.459 dBm Freq Offs 0 Hz X Axis S Log Lin Mar 22, 2024 7:43:03 PM Signal Trac DL 100MHz AWGN LCH Pre-AGC trum Analyzer 5 tt SA 0 Spectr im Ana ed BW + Frequency KEYSIGHT Input: RF Avg Type Avg|Hold Tria: Free 1234 Coupling: AC Align: Auto Settings 1.747500000 GHz Mkr1 2.495 0 GH -19.155 dBn Ref LvI Offset 44.90 dB Ref Level 30 00 dBm 1.49500000 GHz cale/Div 10 dB Swept Spar Zero Span Trace 1 Pass Full Span tart Freq 1.000000000 GHz top Freq 2.495000000 GHz AUTO TUNE Stop 2.4950 GHz ep ~2.21 ms (1001 pts) Start 1.0000 GHz Res BW 1.0 MHz #Video BW 3.0 MHz Sw F Step 149.500000 MHz . Auto Man te Trace Scale Function Valu Function Width Function X Y 2.495 0 GHz -19.184 dBm Freq Offse 0 Hz X Axis So Log Lin 📲 🖒 🍽 🔳 **?** Mar 22, 2024 💬 Signal Tra

5 Conducted Spurious emissions



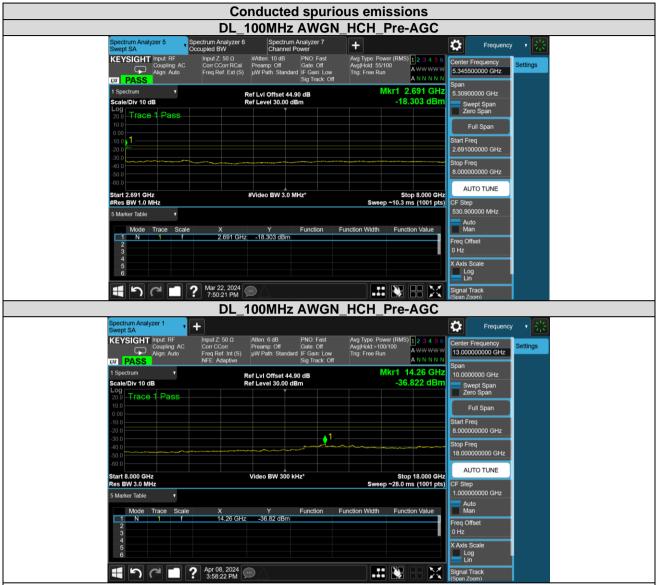
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Remark:

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 = 46 dBm = 39.82W

the limit = $46dBm - [43 + 10 \log 10 (39.82W)] dB = -13dBm$ 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 and above 18GHz 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			
	2593	4.1MHz AWGN 100MHz AWGN	TN	VL	17	0.0066	PASS			
			TN	VH	20	0.0077	PASS			
			TN	VL	18	0.0069	PASS			
DL			TN	VH	17	0.0066	PASS			
		GSM	TN	VL	13	0.0050	PASS			
			TN	VH	10	0.0039	PASS			



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Frequency stability vs temperature									
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (℃)	Freq. error (Hz)	Tolerance (ppm)	Verdict		
			VN	+50	18	0.0069	PASS		
			VN	+40	16	0.0062	PASS		
			VN	+30	19	0.0073	PASS		
			VN	+20	20	0.0077	PASS		
	2593	4.1MHz AWGN	VN	+10	21	0.0081	PASS		
			VN	0	17	0.0066	PASS		
			VN	-10	17	0.0066	PASS		
			VN	-20	19	0.0073	PASS		
			VN	-30	16	0.0062	PASS		
	2593	100MHz AWGN	VN	+50	21	0.0081	PASS		
			VN	+40	18	0.0069	PASS		
			VN	+30	19	0.0073	PASS		
			VN	+20	22	0.0085	PASS		
DL			VN	+10	16	0.0062	PASS		
			VN	0	18	0.0069	PASS		
			VN	-10	17	0.0066	PASS		
			VN	-20	20	0.0077	PASS		
			VN	-30	19	0.0073	PASS		
			VN	+50	11	0.0042	PASS		
			VN	+40	14	0.0054	PASS		
			VN	+30	13	0.0050	PASS		
			VN	+20	11	0.0042	PASS		
	2593	GSM	VN	+10	12	0.0046	PASS		
			VN	0	14	0.0054	PASS		
			VN	-10	10	0.0039	PASS		
			VN	-20	15	0.0058	PASS		
			VN	-30	9	0.0035	PASS		



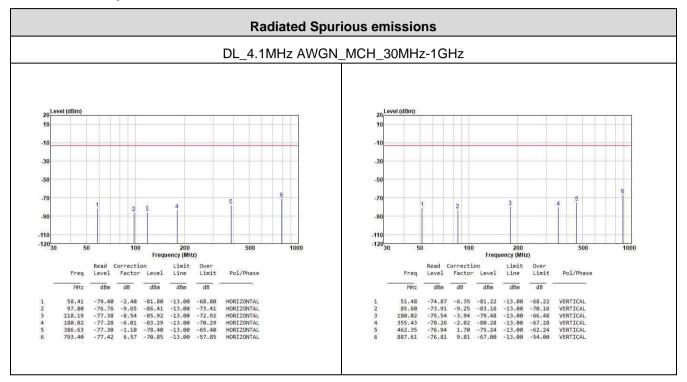
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7 Radiated Spurious emissions



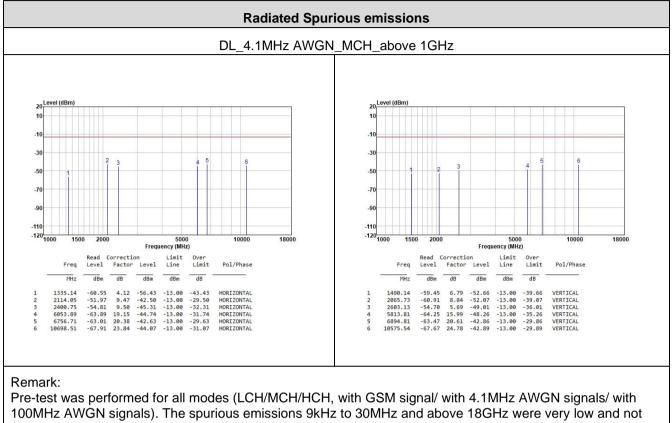
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displayed in this report. Therefore, only show the worst-case data in this report.

--End of Appendix--



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