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FCC ID: OJFDMRUG21719

Appendix -

Test Data and Result for report GZCR230600056802 (A)

(For DL 2110-2200MHz)



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1 Out-of-band rejection



The peak of the frequency response f0 is 2176.1MHz.

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 100MHz	MCH	Pre-AGC	PASS							
		WICH	3dB above AGC	PASS							
		MCH	Pre-AGC	PASS*							
DL	AWGN	WICH	3dB above AGC	PASS*							
	0014	MCH	Pre-AGC	PASS							
	GSM	IVIOIT	3dB above AGC	PASS							

Remark:

- 1. * The band supports maximum channel BW is 90MHz 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.



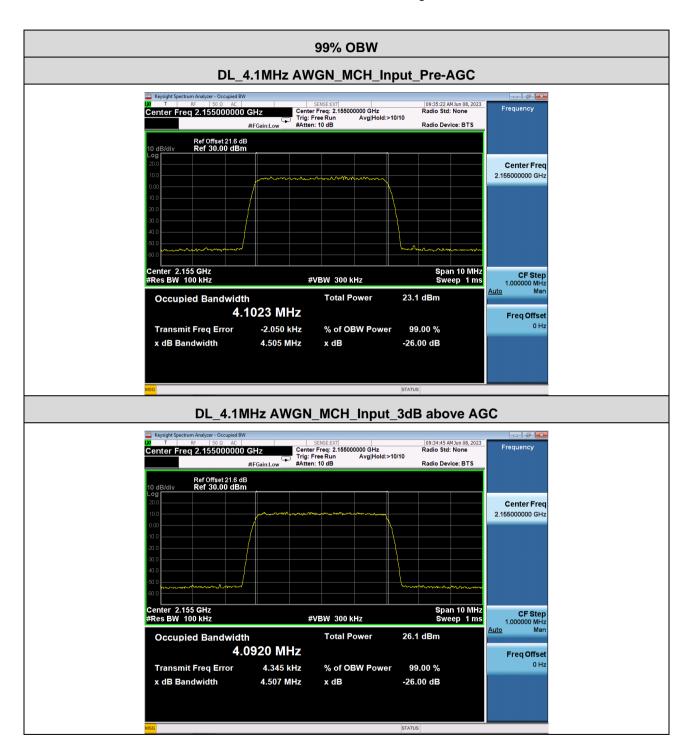
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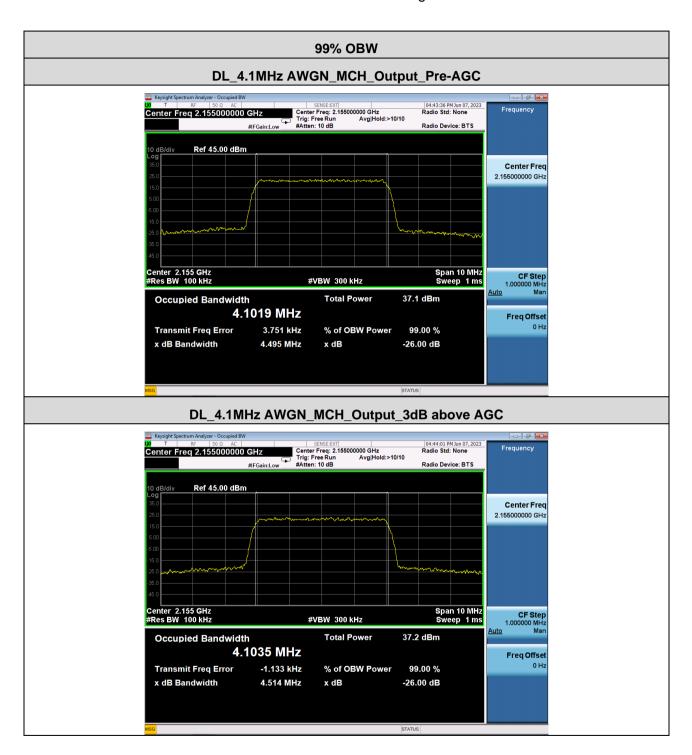
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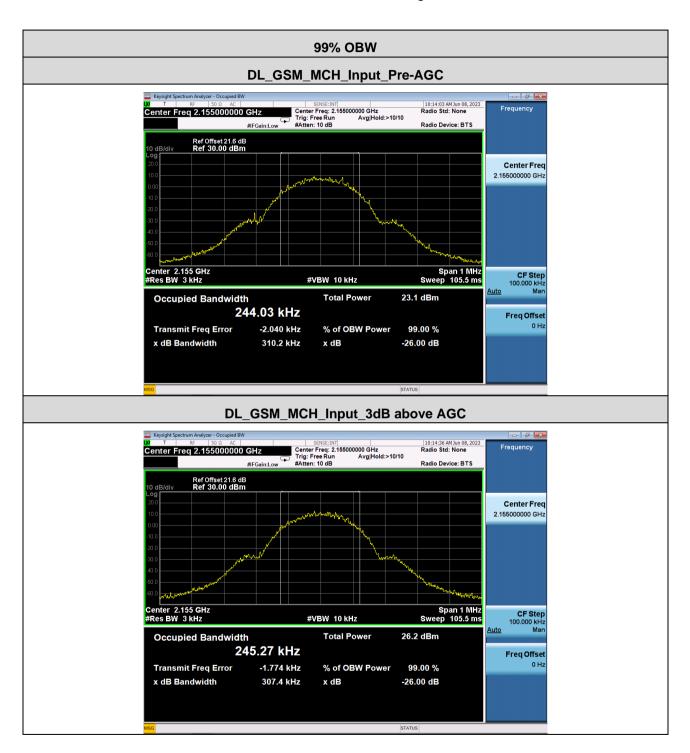
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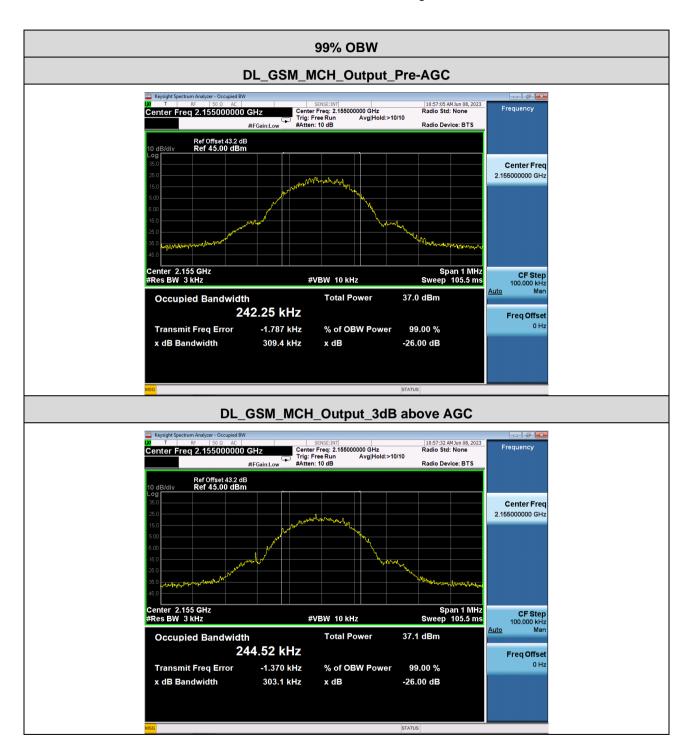
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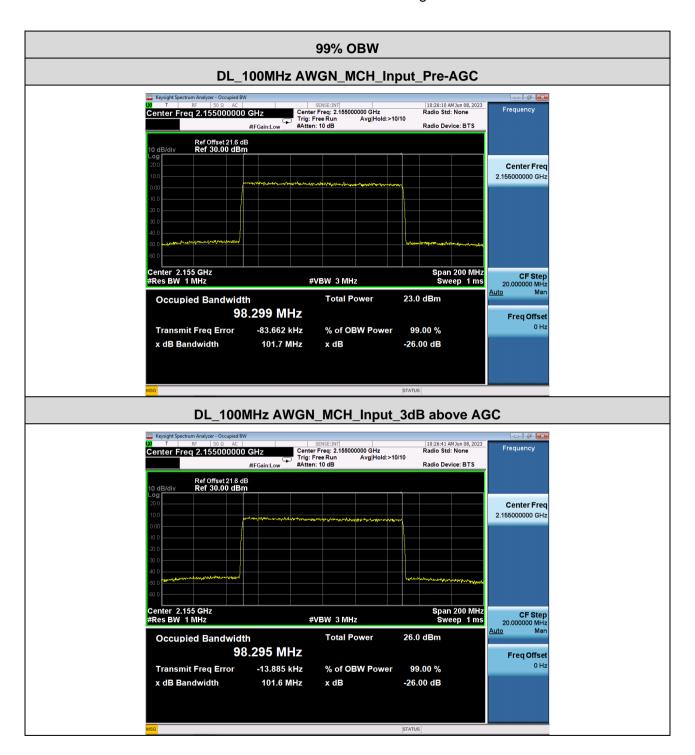
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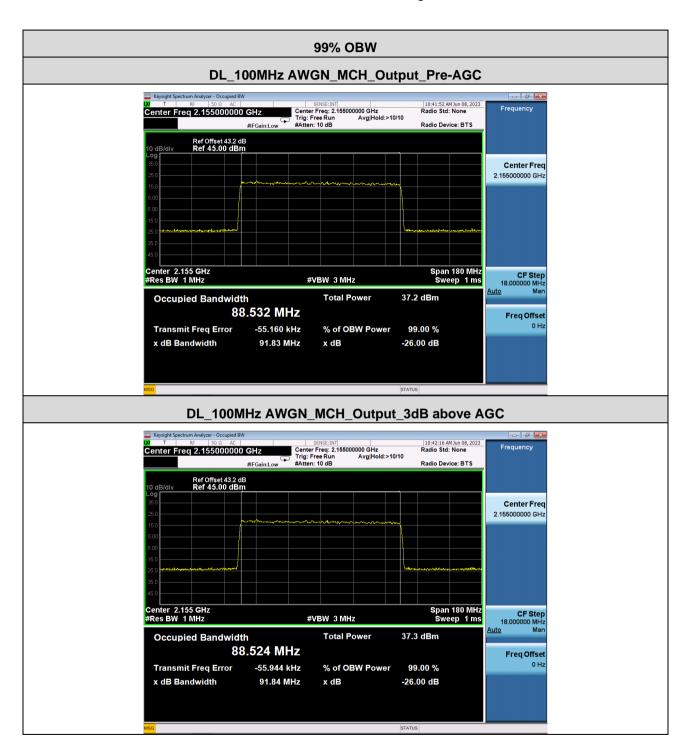


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3 Mean output power and amplifier/booster gain

	Mean output power and gain											
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO EIRP (W)	Total EIRP (W)	Gain (dB)				
	4.	4.1MHz	Pre-AGC	23.00	37.65	58.21	232.81	14.65				
		AWGN	3dB above AGC	26.00	37.53	56.62	226.47	/				
5.	0.170.4	100MHz AWGN GSM	Pre-AGC	22.00	35.77	37.76	151.01	13.77				
DL	DL 2176.1		3dB above AGC	25.00	36.05	40.27	161.07	/				
			Pre-AGC	23.00	37.80	60.26	241.00	14.80				
			3dB above AGC	26.00	37.65	58.21	232.81	/				

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

			Mean outp	out power			
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict
	4.1MHz	Pre-AGC	31.36	13.68	54.71	PASS	
		100MHz AWGN	3dB above AGC	31.08	12.84	51.29	PASS
5.	04704		Pre-AGC	26.73	4.72	18.84	PASS
DL	DL 2176.1		3dB above AGC	26.19	4.16	16.64	PASS
			Pre-AGC	37.80	60.26	241.00	PASS
		GSM	3dB above AGC	37.65	58.22	232.81	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 10dBi declared by the manufacturer, the directional gain = G_{ANT} + 10 log (N_{ANT}) dBi = 13dBi.
- 3. The output power is limited to an EIRP of 1640W/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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Peak-to-average ratio (PAR)										
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict				
	4.1MHz	4.1MHz Pre-AGC 8.38			PASS					
		AWGN	3dB above AGC	8.23		PASS				
DL	DL 2176.1	100MHz	Pre-AGC	8.38	≤13	PASS				
			3dB above AGC	8.19		PASS				

Remark:

The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN (pre-AGC) were record in the report for demonstrate PAR compliance.



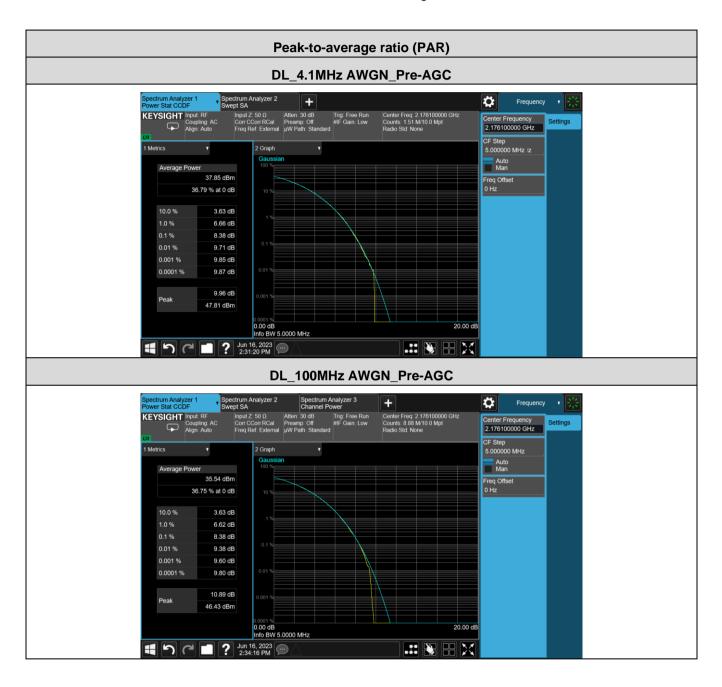
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4 Out-of-band/out-of-block(including intermodulation) emissions

		Out-of-b	and/out-of-bloc	k(including intermo	dulation) emissions				
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict		
			One signal	Pre-AGC	-26.87		PASS		
	LCH		input	3dB above AGC	-28.19		PASS		
	LCH		Two signals	Pre-AGC	-27.68		PASS		
DI.		4.1MHz	input	3dB above AGC	-27.65		PASS		
DL		AWGN	One signal	Pre-AGC	-28.35	≤-16	PASS		
	11011		input	3dB above AGC	-28.67		PASS		
	HCH		Two signals	Pre-AGC	-28.01		PASS		
			input	3dB above AGC	-29.09		PASS		
			One signal	Pre-AGC	-20.06		PASS		
	1.011		input	3dB above AGC	-19.61		PASS		
	LCH					Two signals	Pre-AGC	-22.86	
D 1		100MHz	input	3dB above AGC	-23.20		PASS		
DL		AWGN	One signal	Pre-AGC	-21.71	≤-16	PASS		
	LICH		input	3dB above AGC	-20.02		PASS		
	HCH		Two signals	Pre-AGC	-20.93		PASS		
			input	3dB above AGC	-21.52		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 = 37dBm = 5.02W

the limit = 37dBm - [43 + 10 log10 (5.02W)] 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(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	-23.54		PASS				
	LCH		input	3dB above AGC	-22.99		PASS				
		GSM HCH	Two signals input	Pre-AGC	-20.73		PASS				
				3dB above AGC	-19.40	≤-16	PASS				
Downlink			One signal	Pre-AGC	-22.35		PASS				
	ПСП		input	3dB above AGC	-21.91		PASS				
	поп		Two signals	Pre-AGC	-21.99		PASS				
			input	3dB above AGC	-20.83		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 = 37dBm = 5.02W

the limit = $37dBm - [43 + 10 \log 10 (5.02W)] dB = -13dBm$

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



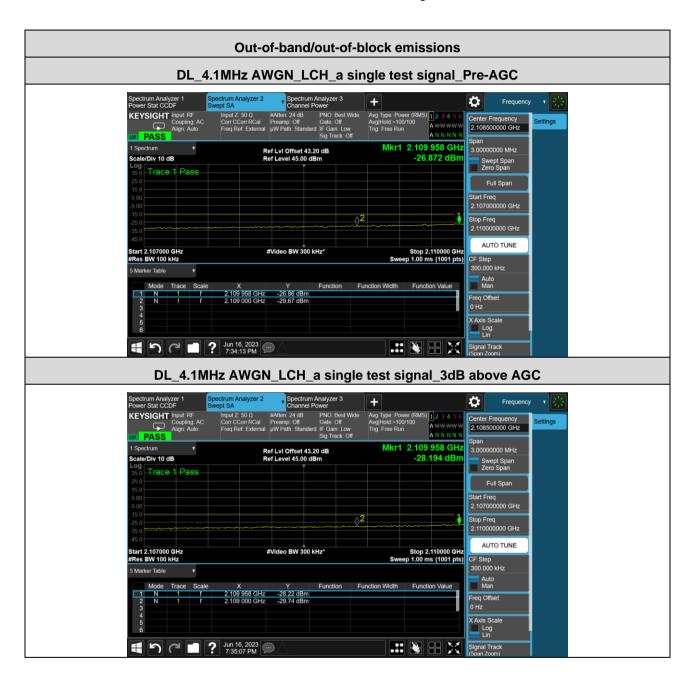
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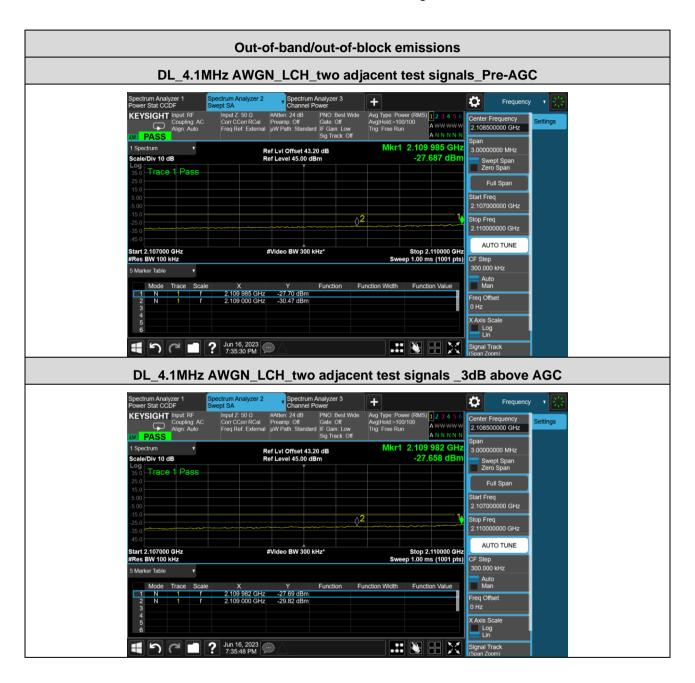
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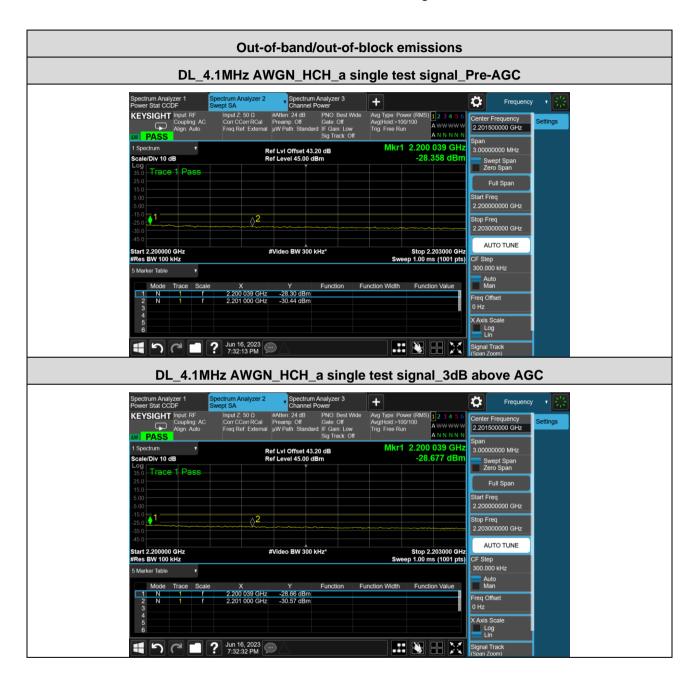
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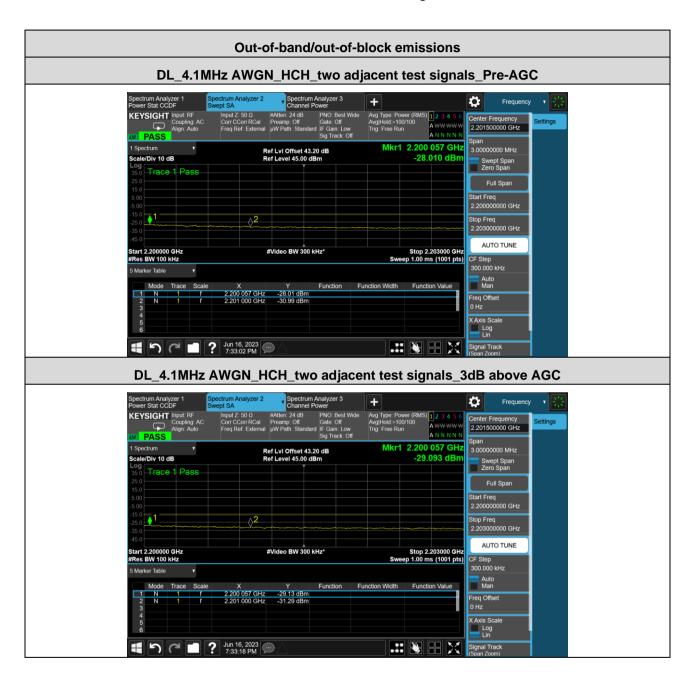
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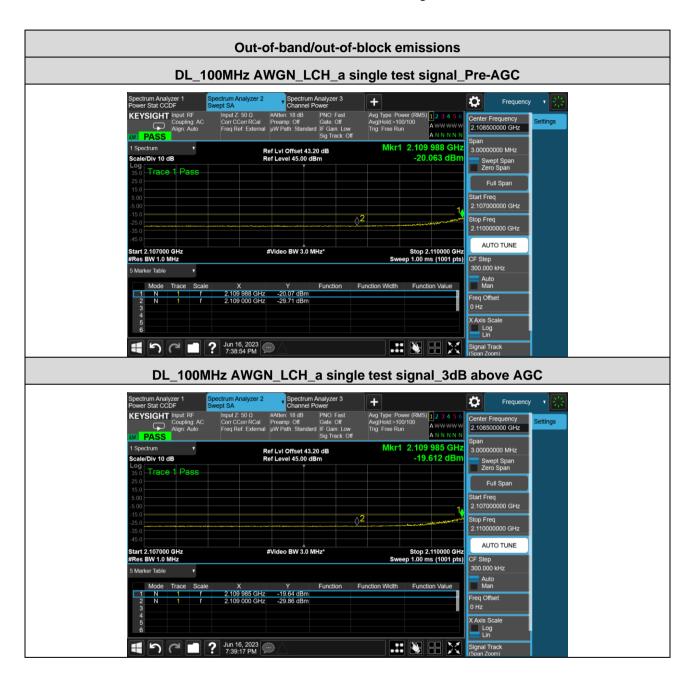
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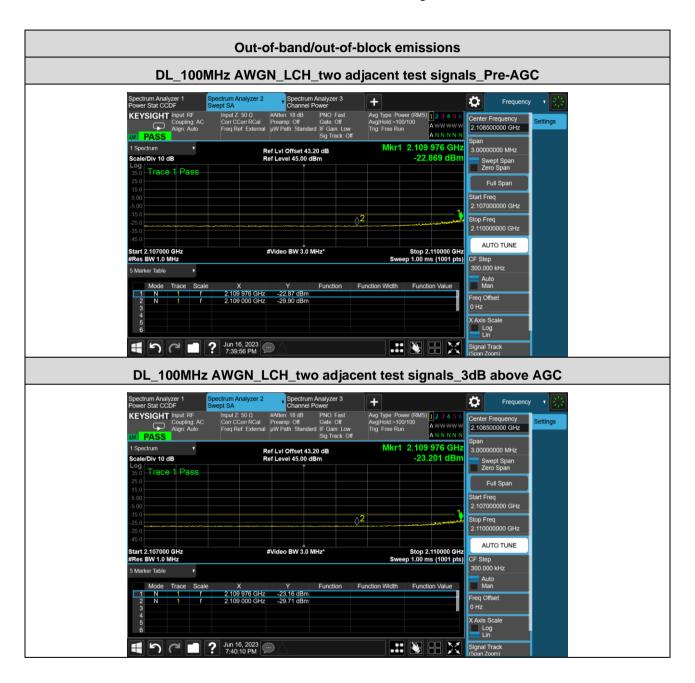
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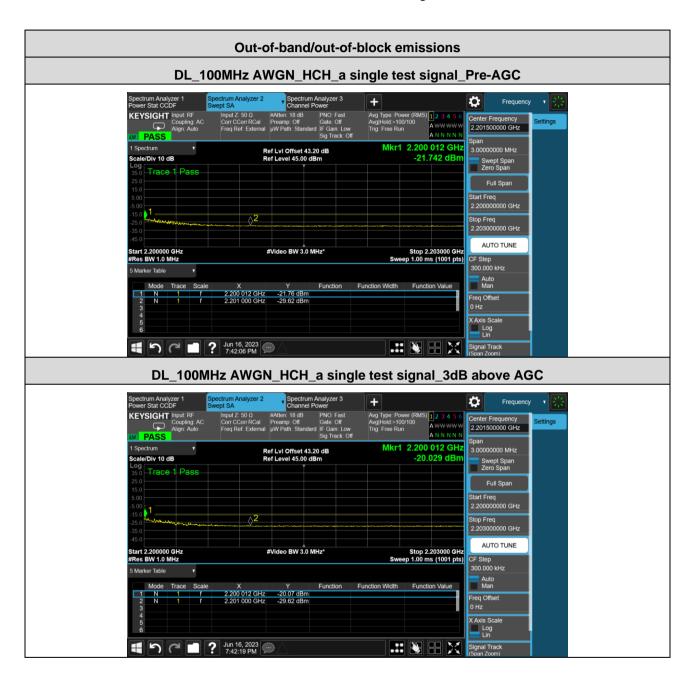
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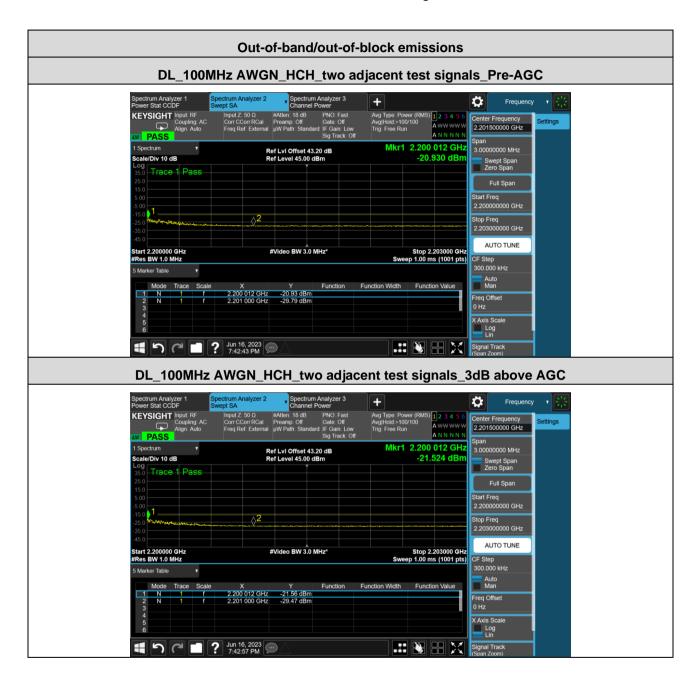
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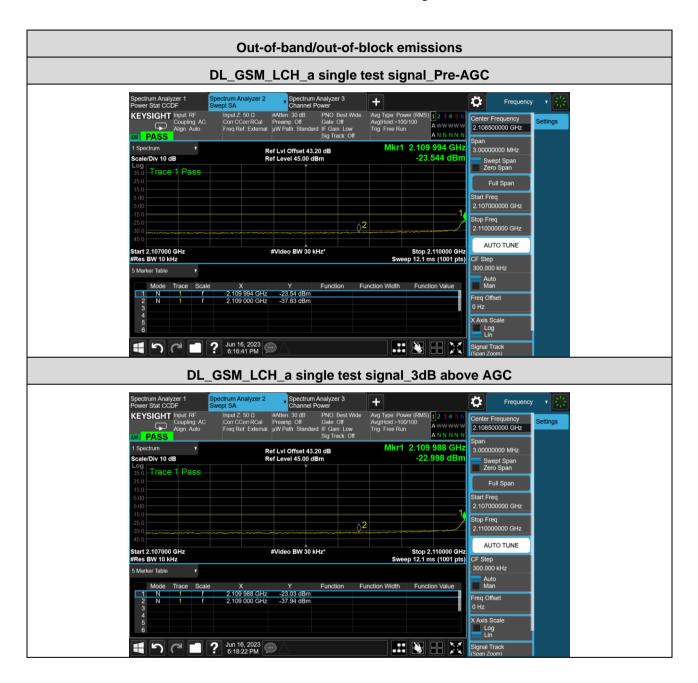
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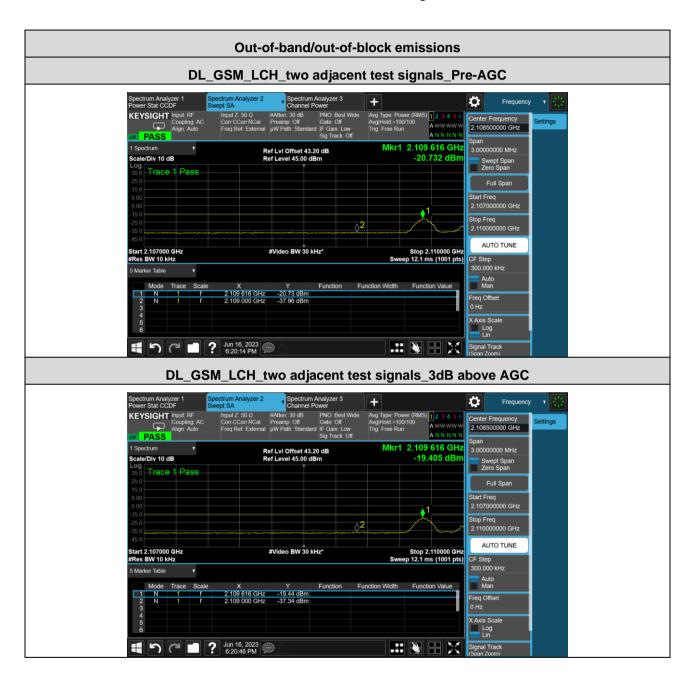
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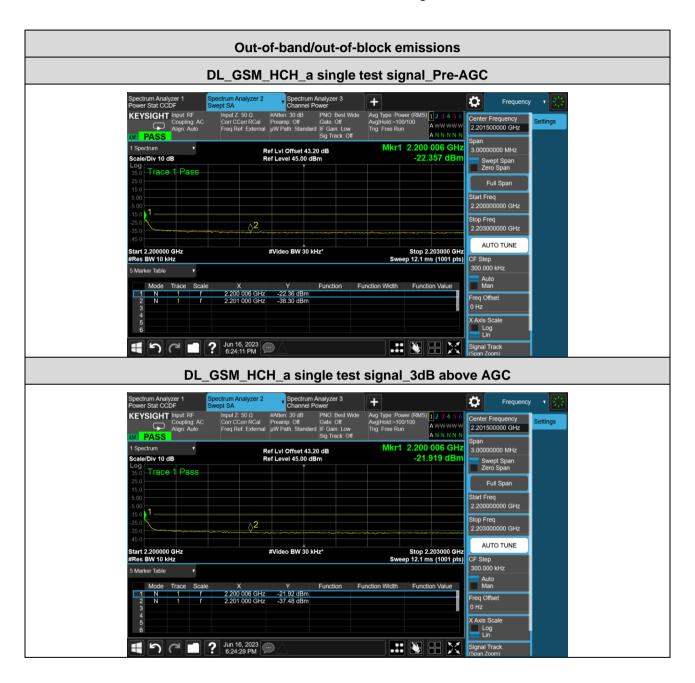
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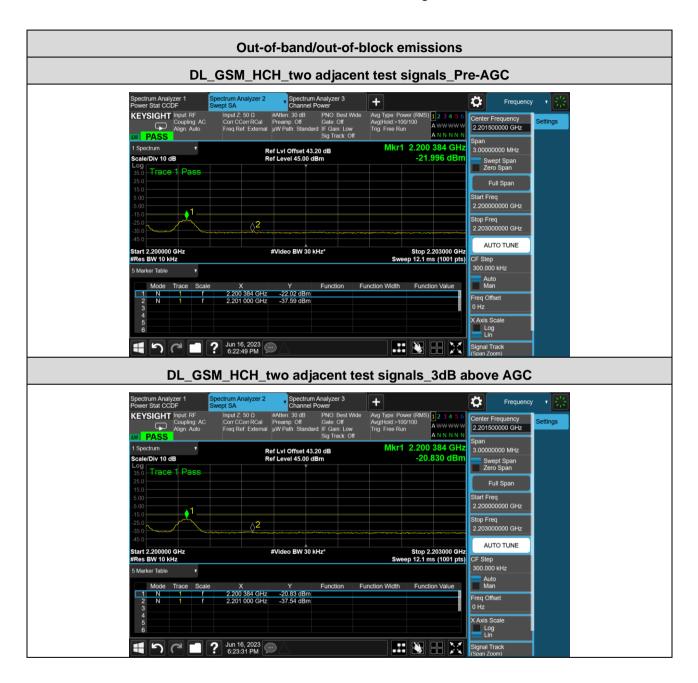
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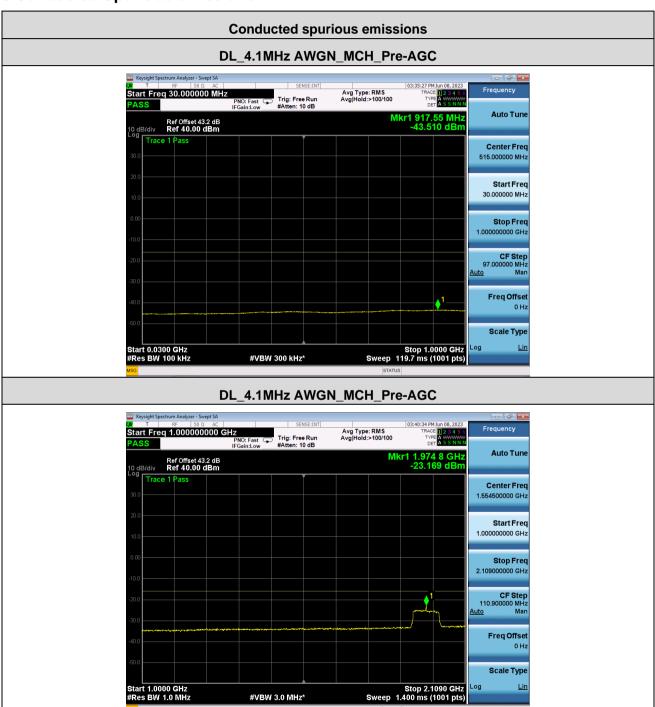
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5 Conducted Spurious emissions





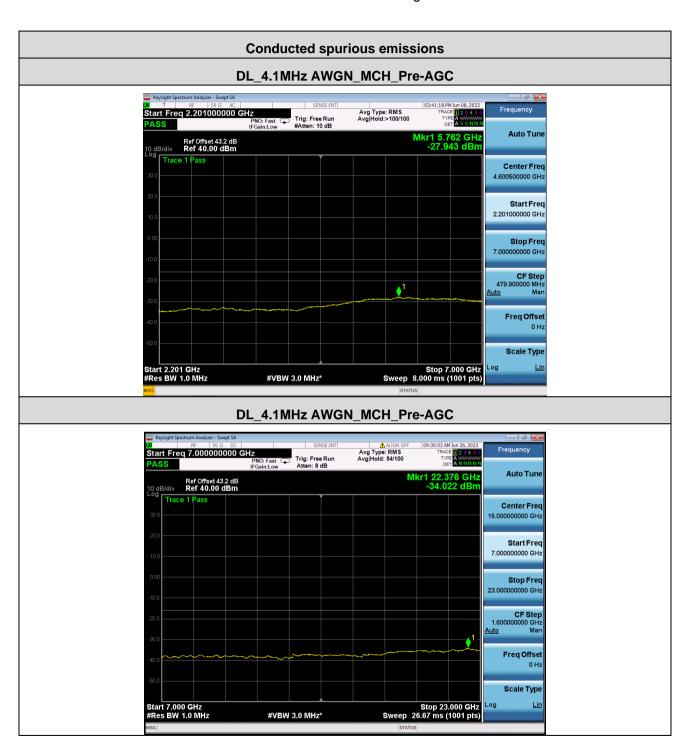
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Remark:

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 = 37dBm = 5.02W,

the limit = $37dBm - [43 + 10 \log 10 (5.02W)] dB = -13dBm$

- 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 (Low Channel/MCH/High Channel, 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	12	0.0056	PASS			
	2155	AWGN	TN	VH	19	0.0088	PASS			
		100MHz AWGN	TN	VL	23	0.0107	PASS			
DL			TN	VH	17	0.0079	PASS			
		GSM	TN	VL	20	0.0093	PASS			
			TN	VH	15	0.0070	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	21	0.0097	PASS
			VN	+40	27	0.0125	PASS
			VN	+30	17	0.0079	PASS
		4 4 5 4 1 1 -	VN	+20	9	0.0042	PASS
	2155	4.1MHz AWGN	VN	+10	18	0.0084	PASS
			VN	0	23	0.0107	PASS
			VN	-10	14	0.0065	PASS
			VN	-20	10	0.0046	PASS
			VN	-30	7	0.0032	PASS
			VN	+50	27	0.0125	PASS
		100MHz AWGN	VN	+40	19	0.0088	PASS
			VN	+30	21	0.0097	PASS
			VN	+20	16	0.0074	PASS
DL	2155		VN	+10	11	0.0051	PASS
			VN	0	24	0.0111	PASS
			VN	-10	21	0.0097	PASS
			VN	-20	10	0.0046	PASS
			VN	-30	8	0.0037	PASS
			VN	+50	19	0.0088	PASS
			VN	+40	24	0.0111	PASS
			VN	+30	20	0.0093	PASS
			VN	+20	16	0.0074	PASS
	2155	GSM	VN	+10	10	0.0046	PASS
			VN	0	8	0.0037	PASS
			VN	-10	14	0.0065	PASS
			VN	-20	19	0.0088	PASS
			VN	-30	24	0.0111	PASS



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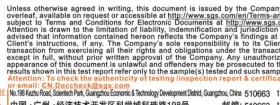
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7 Radiated Spurious emissions

Radiated Spurious emissions DL 4.1MHz AWGN MCH 30MHz-1GHz -100 -100 -12030 -120₃₀ race: (Discrete) race: (Discrete) Read Correction limit Read Correction Limit Pol/Phase Pol/Phase MHz dBm dBm dB MHz dBm dB dBm dBm -77.90 -79.63 -79.74 -78.35 -9.99 -8.59 -6.49 -3.94 -6.27 -2.57 -83.67 -86.03 -81.74 -13.00 -13.00 -13.00 -70.67 -73.03 -68.74 81.212 -87.89 -88.22 -13.00 -74.89 HORIZONTAL 167.824 -79.73 VERTICAL -75.22 -73.23 116.950 195.137 -13.00 -13.00 245.951 -79.76 316.589 -79.17 VERTICAL VERTICAL HORIZONTAL 269.428 -3.10 -81.45 -13.00 -68.45 HORIZONTAL 468.876 -78.00 1.80 -76.20 4.60 -73.16 -13.00 -63.20 VERTICAL -78.24 -13.00 -65.24 HORIZONTAL -13.00



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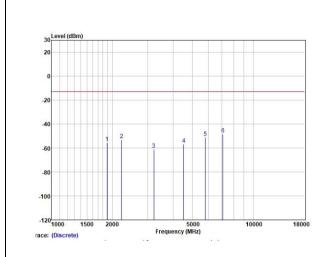
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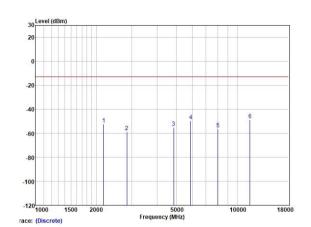
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



			orrection		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1883.236	-62.00	6.34	-55.66	-13.00	-42.66	HORIZONTAL
2	2226,950	-62.47	9.32	-53.15	-13.00	-40.15	HORIZONTAL
3	3214.623	-63.33	2.23	-61.10	-13.00	-48.10	HORIZONTAL
4	4521.185	-62.98	6.34	-56.64	-13.00	-43.64	HORIZONTAL
5	5780.300	-64.85	13.52	-51.33	-13.00	-38.33	HORIZONTAL
5	7076.516	-67.60	19.16	-48.44	-13.00	-35.44	HORIZONTAL



	Freq	Read (Correction Factor	on Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	e
1 2 3 4	2176.047	-61.89	9.35	-52.54	-13.00	-39.54	VERTICAL
2	2838.921	-63.10	4.40	-58.70	-13.00	-45.70	VERTICAL
3	4845.948	-64.61	9.23	-55.38	-13.00	-42.38	VERTICAL
4	5881.418	-65.46	16.05	-49.41	-13.00	-36.41	VERTICAL
5	8013.020	-72.46	16.19	-56.27	-13.00	-43.27	VERTICAL
6	11566.870	-70.80	22.04	-48.76	-13.00	-35.76	VERTICAL



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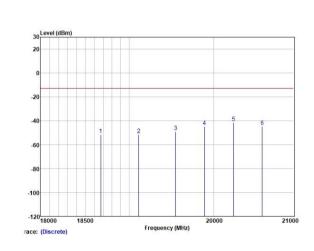
CO.,Lit.I. No.198 Katun Road, Soeineth Park, Guanghou Exonomic & Technology Development District, Guangchou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
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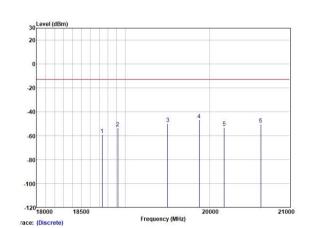
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



			orrection	10000	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	18673.460	-88.34	36.75	-51.59	-13.00	-38.59	HORIZONTAL
2	19110.920	-89.30	37.72	-51.58	-13.00	-38.58	HORIZONTAL
3	19543.020	-87.23	38.23	-49.00	-13.00	-36.00	HORIZONTAL
4	19889.370	-83.06	38.45	-44.61	-13.00	-31.61	HORIZONTAL
5	20241.850	-80.11	38.52	-41.59	-13.00	-28.59	HORIZONTAL
6	20600.590	-83.55	38.55	-45.00	-13.00	-32.00	HORIZONTAL



		Read (orrecti	on	Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	i .
1	18733.200	-89.10	29.73	-59.37	-13.00	-46.37	VERTICAL
2	18913.560	-84.29	30.86	-53.43	-13.00	-40.43	VERTICAL
3	19496.260	-84.07	34.20	-49.87	-13.00	-36.87	VERTICAL
4	19873.490	-81.89	35.00	-46.89	-13.00	-33.89	VERTICAL
5	20177.300	-88.32	35.23	-53.09	-13.00	-40.09	VERTICAL
6	20633.510	-85.74	35.33	-50.41	-13.00	-37.41	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 data in this report.

-- End of Appendix--



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