



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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FCC ID: OJFDMRUG235

Appendix -

Test Data and Result for report

GZCR220900121403



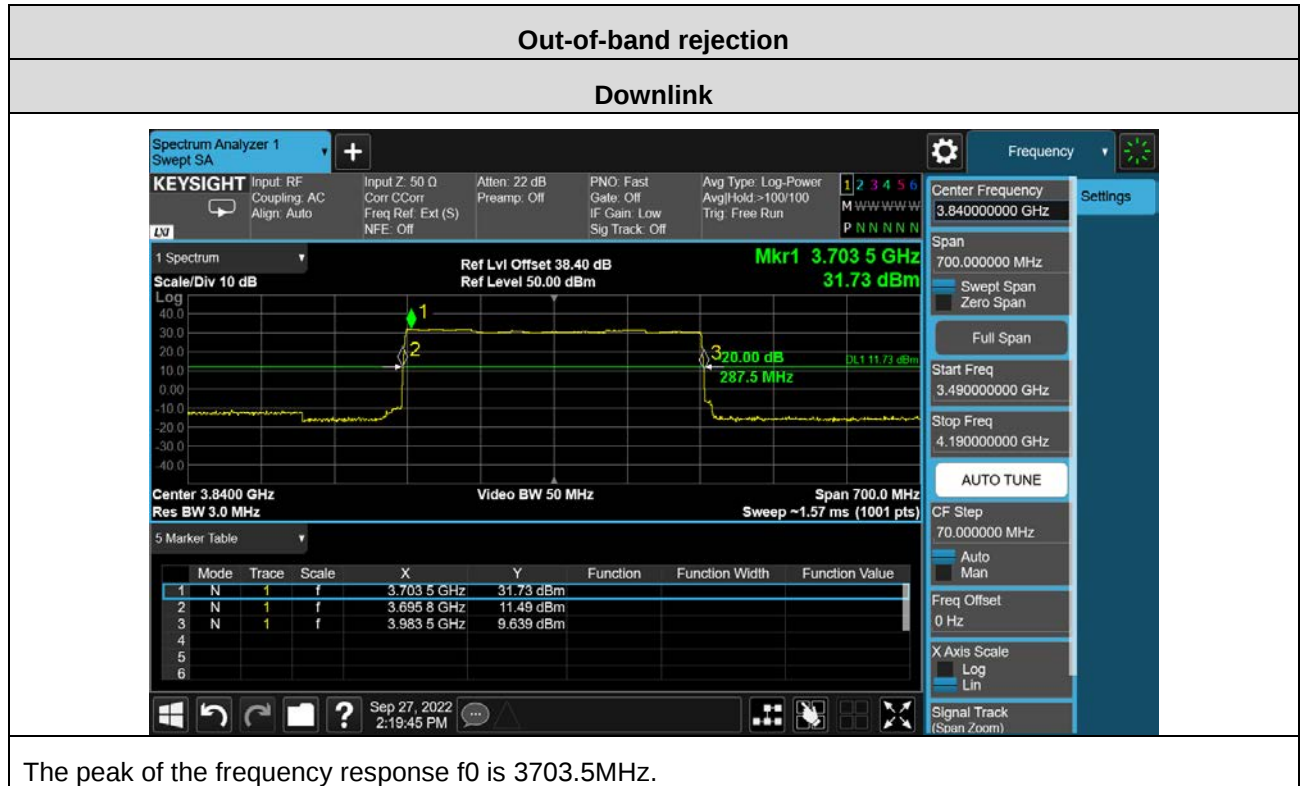
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Guangzhou Branch / Test Services EEC Laboratory

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1 Out-of-band rejection





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2Input versus Output comparison

Occupied Bandwidth						
Test Path	Test Signal	Test Channel	Signal Level	99% OBW (MHz)		Verdict
				Input	Output	
Downlink	AWGN	MCH	Pre-AGC	4.1141	4.0949	PASS
			3dB above AGC	4.1124	4.0904	PASS
	GSM	MCH	Pre-AGC	0.24841	0.24625	PASS
			3dB above AGC	0.24605	0.24595	PASS



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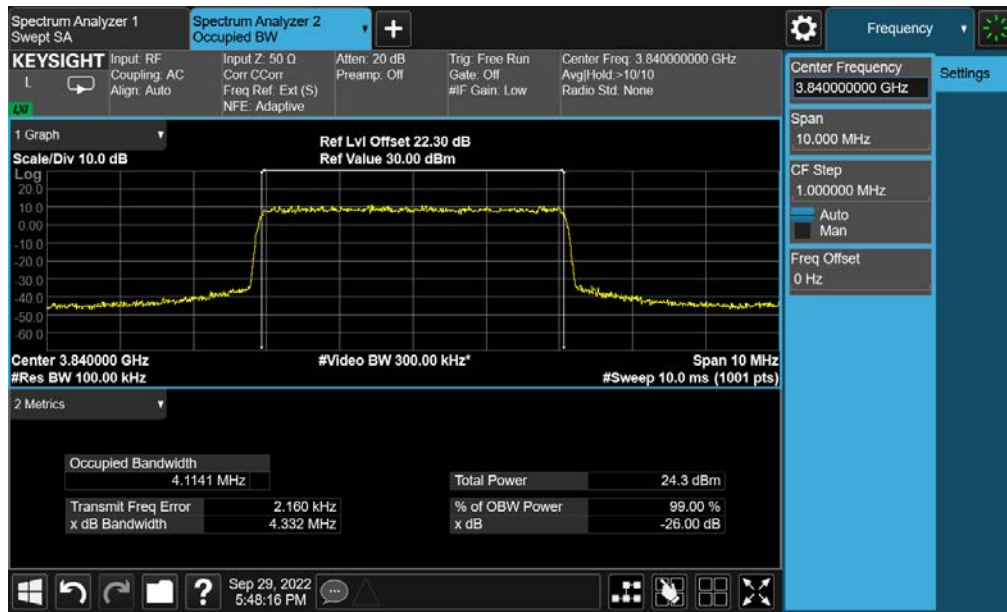
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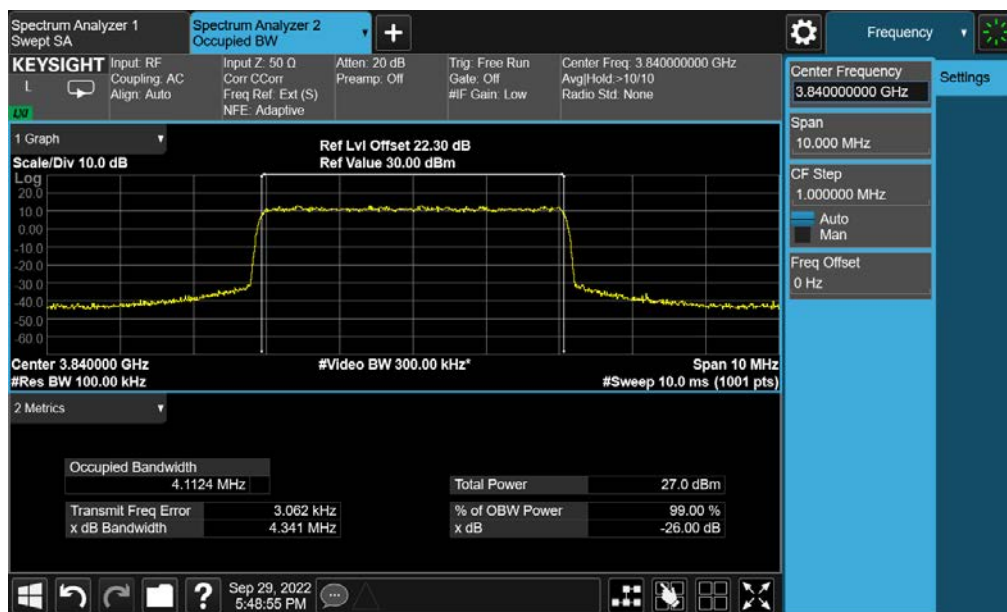
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99% OBW

Downlink_AWGN_MCH_Input_Pre-AGC

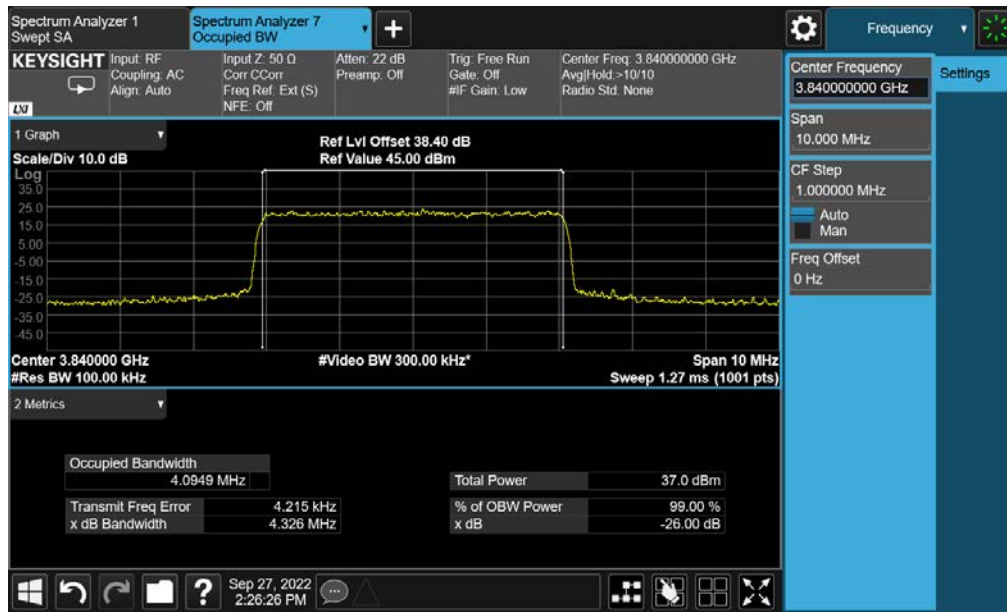


Downlink_AWGN_MCH_Input_3dB above AGC

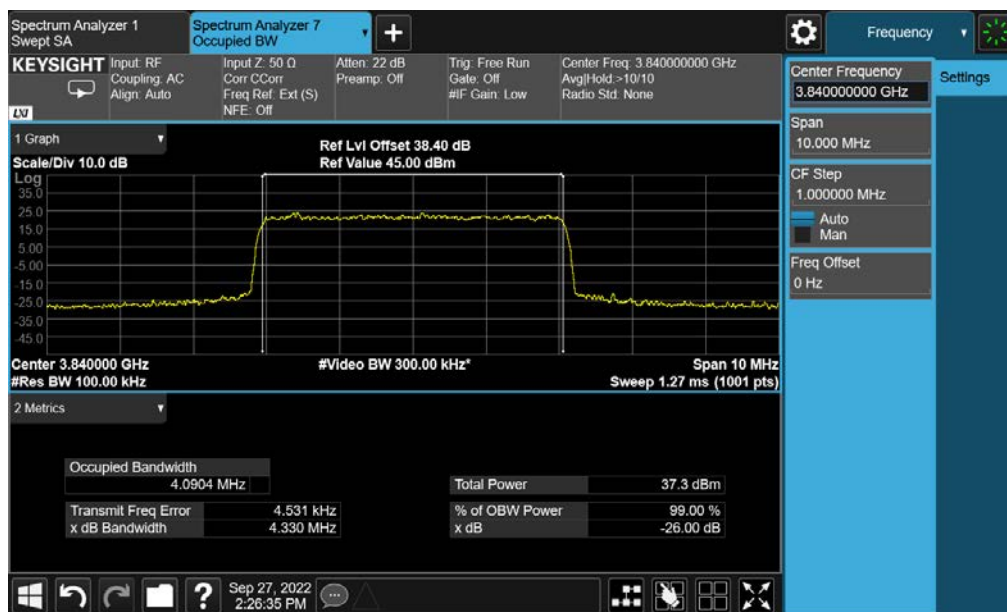


99% OBW

Downlink_AWGN_MCH_Output_Pre-AGC



Downlink_AWGN_MCH_Output_3dB above AGC



99% OBW

Downlink_GSM_MCH_Input_Pre-AGC



Downlink_GSM_MCH_Input_3dB above AGC

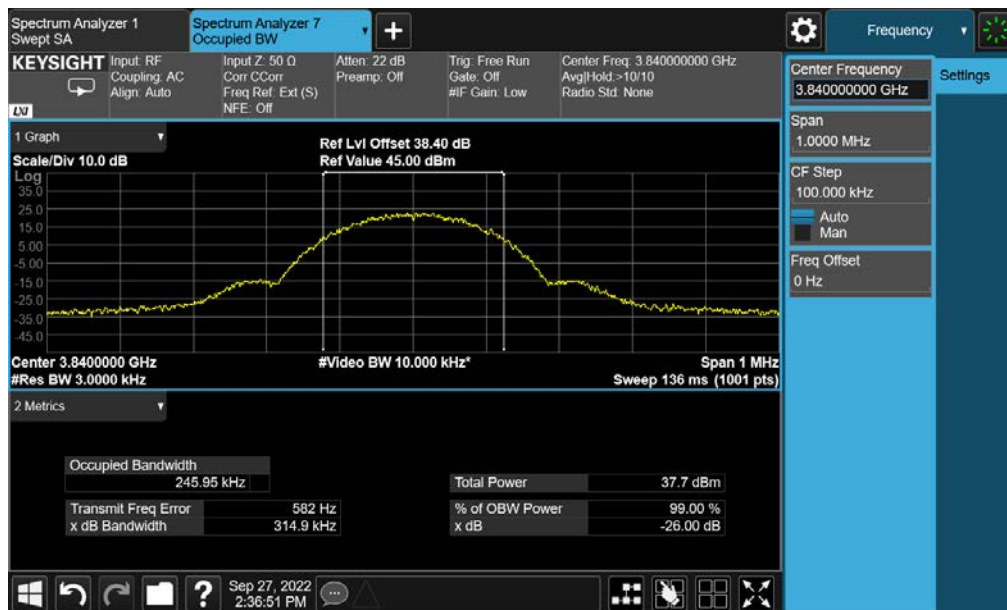


99% OBW

Downlink_GSM_MCH_Output_Pre-AGC



Downlink_GSM_MCH_Output_3dB above AGC





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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)
Downlink	3703.5	AWGN	Pre-AGC	24.00	37.33	17.11	68.08	13.33
			3dB above AGC	27.00	37.51	17.83	70.96	/
		GSM	Pre-AGC	24.00	38.25	21.14	84.14	14.25
			3dB above AGC	27.00	38.48	22.29	88.72	/
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								

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict
Downlink	3703.5	AWGN	Pre-AGC	30.45	3.51	13.97	PASS
			3dB above AGC	30.82	3.82	15.21	PASS
		GSM	Pre-AGC	37.97	19.82	78.89	PASS
			3dB above AGC	38.21	20.95	83.37	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. The output power is limited to an EIRP of 1640W/MHz.							

Peak-to-average ratio (PAR)						
Test path	Test freq. f ₀ (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
Downlink	3703.5	AWGN	Pre-AGC	8.28	≤13	PASS
			3dB above AGC	8.32		PASS
		GSM	Pre-AGC	0.31		PASS
			3dB above AGC	0.30		PASS



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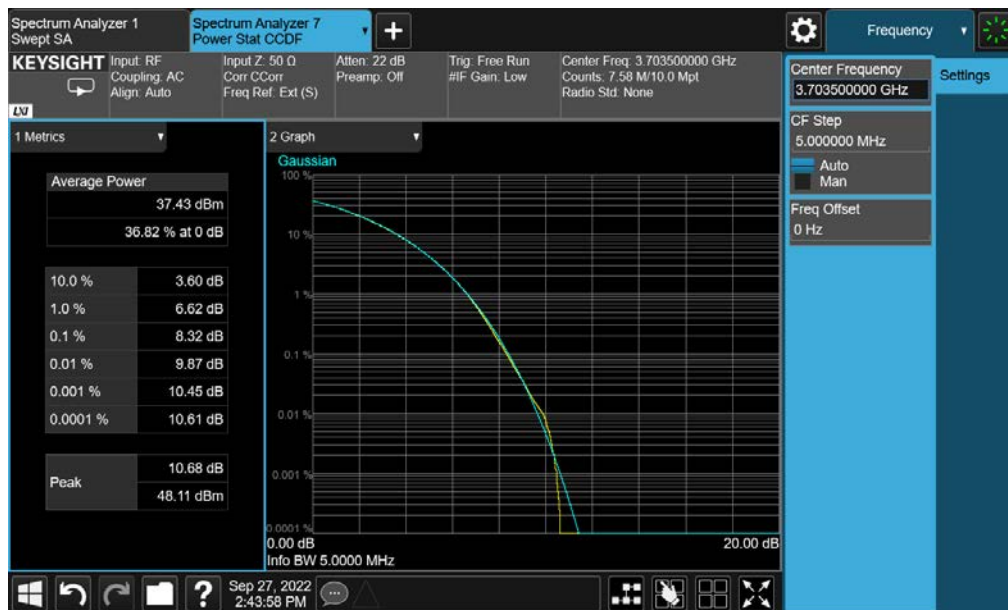
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Peak-to-average ratio (PAR)

Downlink_AWGN_Pre-AGC

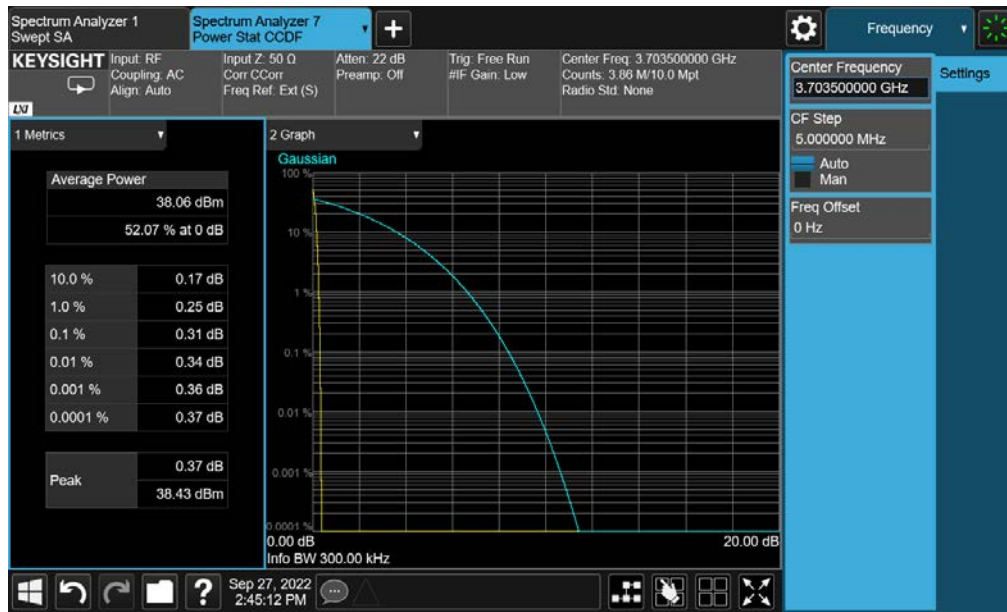


Downlink_AWGN_3dB above AGC

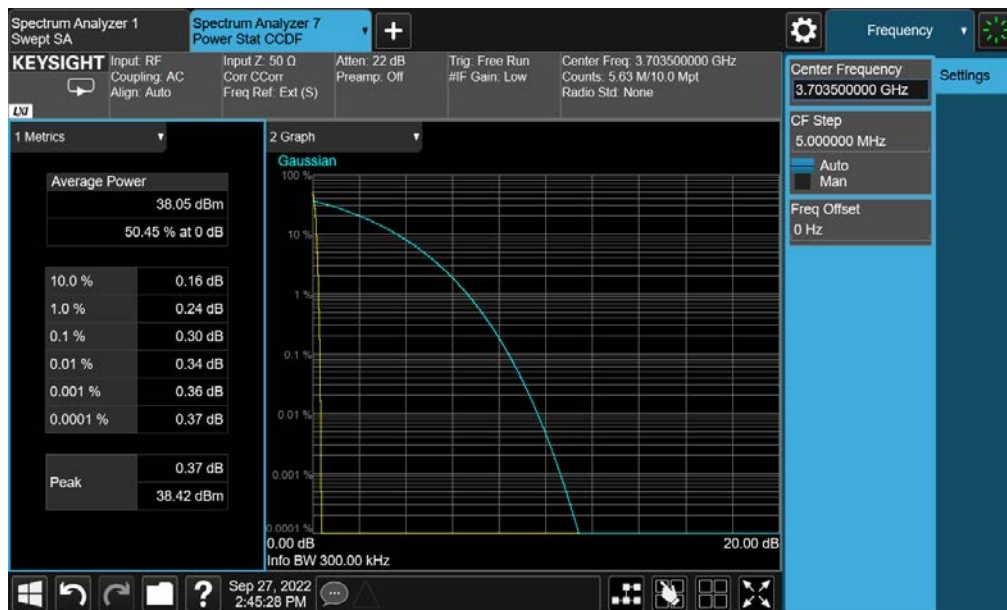


Peak-to-average ratio (PAR)

Downlink_GSM_Pre-AGC



Downlink_GSM_3dB above AGC



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		Limit (dBm/MHz)	Verdict
					(dBm/200kHz)	(dBm/MHz)		
Downlink	lower edge	AWGN	a single test signal	Pre-AGC	-27.53	-20.54	≤-16	PASS
				3dB above AGC	-26.48	-19.49		PASS
			two adjacent test signals	Pre-AGC	-29.47	-22.48		PASS
				3dB above AGC	-29.71	-22.72		PASS
	upper edge		a single test signal	Pre-AGC	-29.38	-22.39		PASS
				3dB above AGC	-29.01	-22.02		PASS
			two adjacent test signals	Pre-AGC	-30.21	-23.22		PASS
				3dB above AGC	-30.50	-23.51		PASS
Remark: 1. The level in 1MHz RBW= the level in 200kHz RBW+ 10lg(1000/200). 2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.								

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/MHz)	Verdict
					(dBm/10kHz)	(dBm/MHz)		
Downlink	lower edge	GSM	a single test signal	Pre-AGC	-38.32	-18.32	≤-16	PASS
				3dB above AGC	-37.81	-17.81		PASS
			two adjacent test signals	Pre-AGC	-39.97	-19.97		PASS
				3dB above AGC	-40.15	-20.15		PASS
	upper edge		a single test signal	Pre-AGC	-39.61	-19.61		PASS
				3dB above AGC	-39.81	-19.81		PASS
			two adjacent test signals	Pre-AGC	-41.40	-21.40		PASS
				3dB above AGC	-40.69	-20.69		PASS
Remark: 1. The level in 1MHz RBW= the level in 10kHz RBW+ 10lg(1000/10). 2. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2) =3dB, so the limit was calculated to show -16dBm/MHz in order to determine the test result conveniently.								

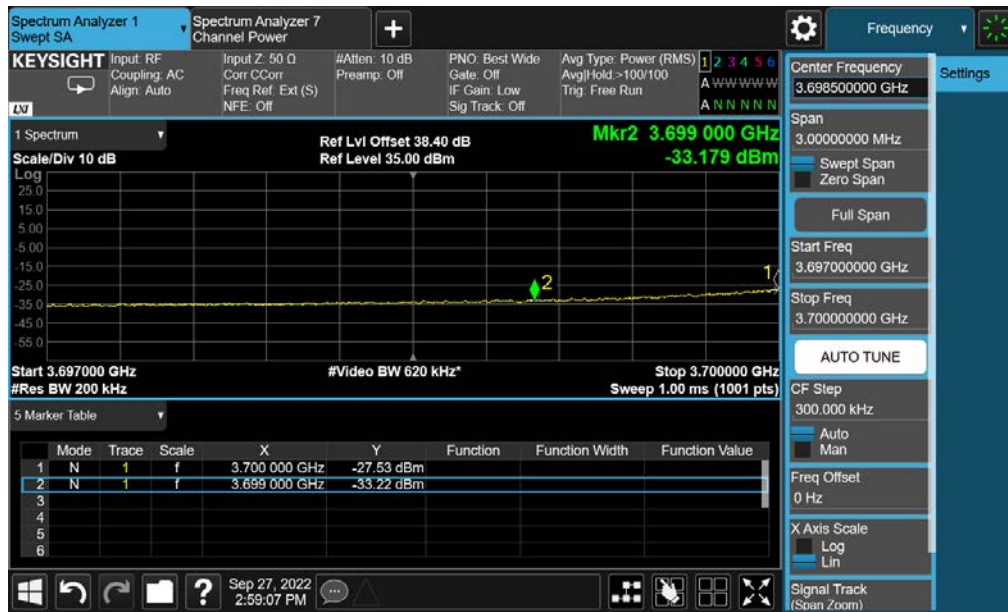


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Out-of-band/out-of-block emissions

Downlink_AWGN_lower edge_a single test signal_Pre-AGC

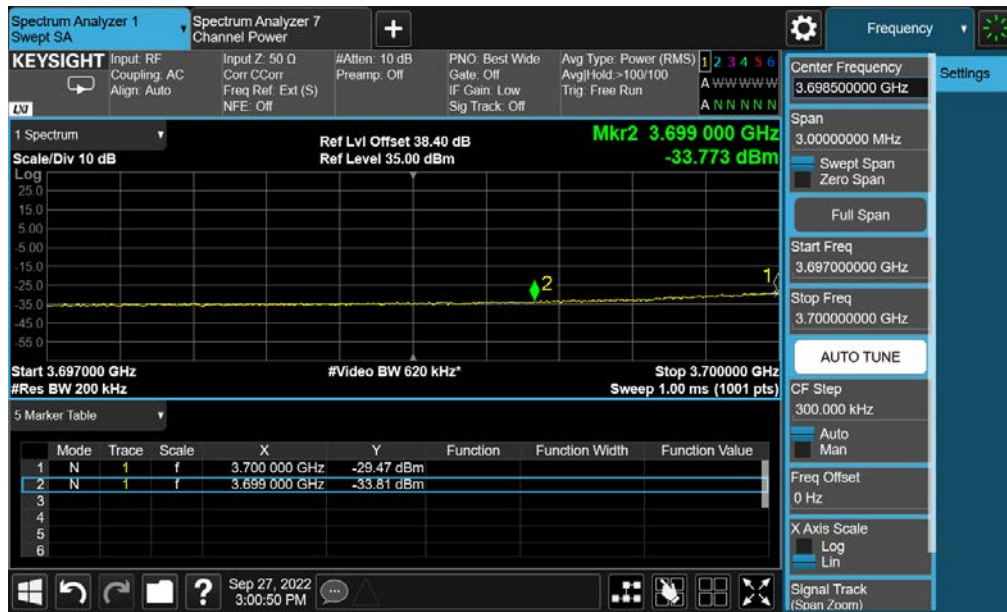


Downlink_AWGN_lower edge_a single test signal_3dB above AGC

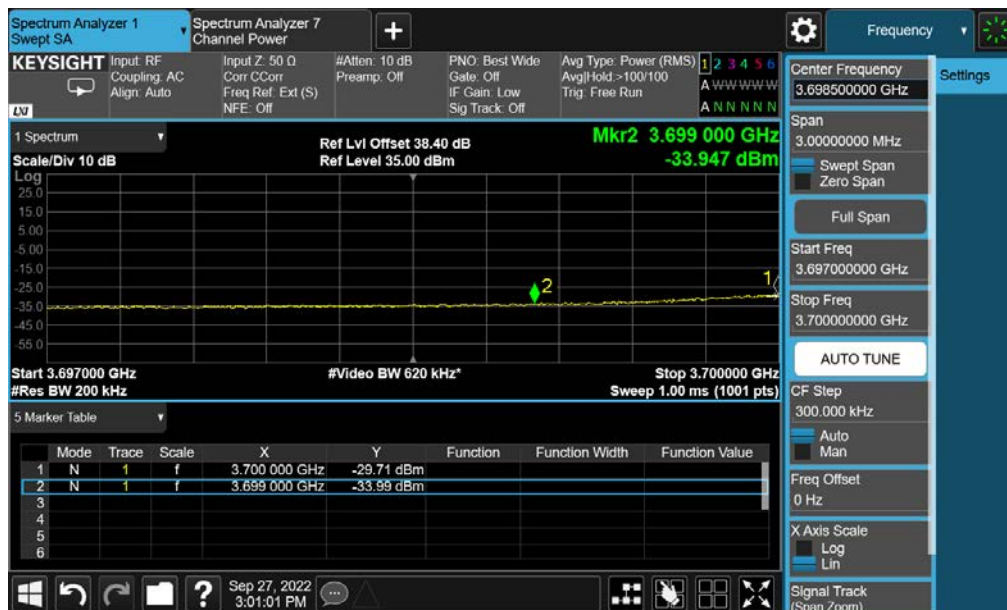


Out-of-band/out-of-block emissions

Downlink_AWGN_lower edge_two adjacent test signals_Pre-AGC



Downlink_AWGN_lower edge_two adjacent test signals_3dB above AGC

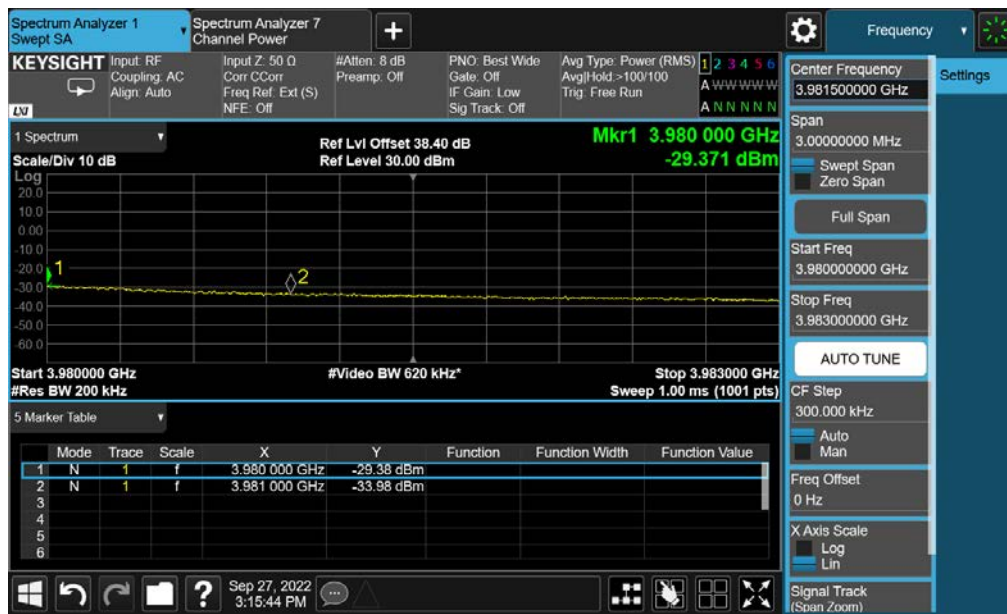


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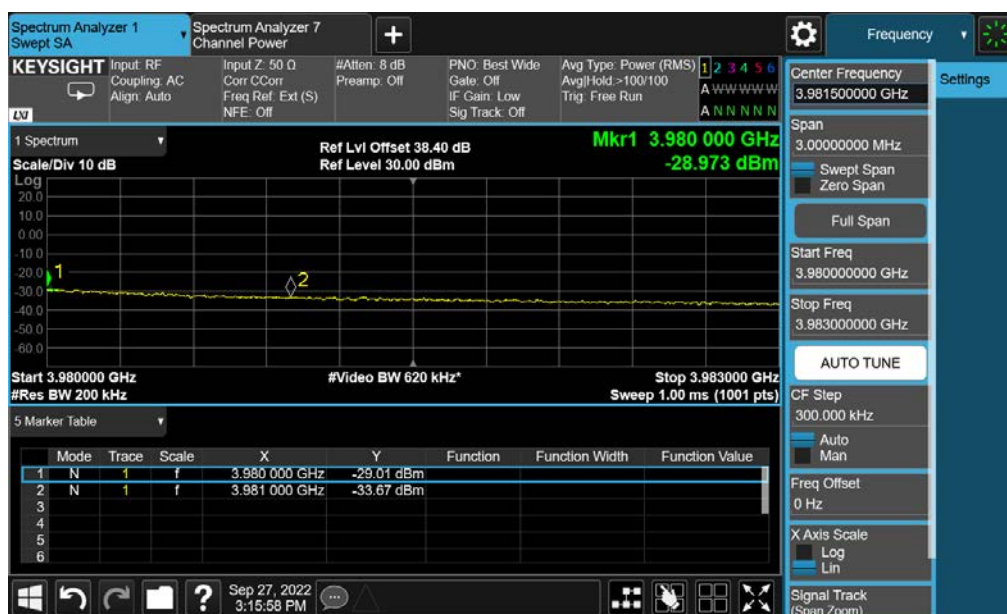
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Out-of-band/out-of-block emissions

Downlink_AWGN_upper edge_a single test signal_Pre-AGC

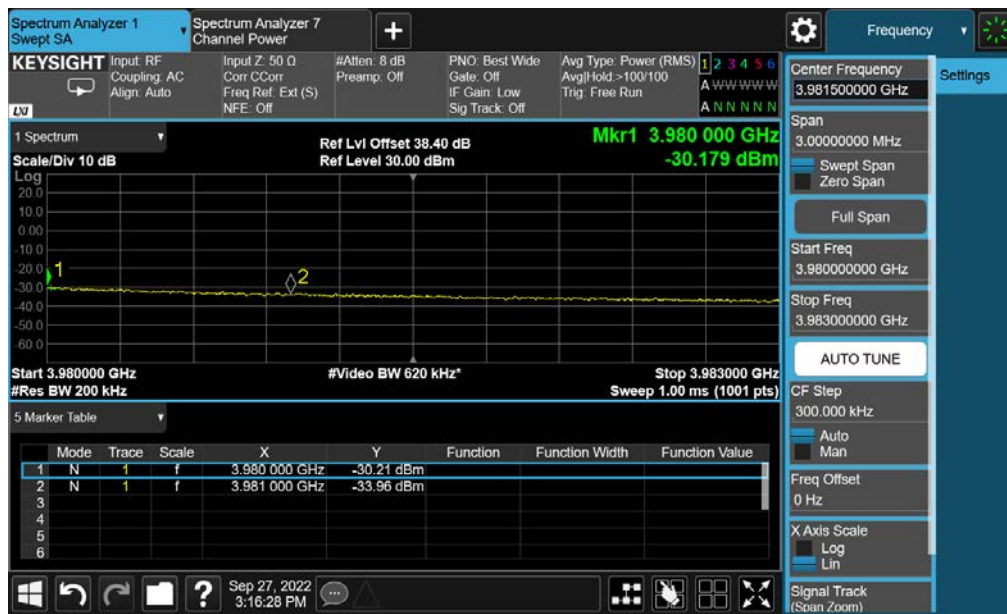


Downlink_AWGN_upper edge_a single test signal_3dB above AGC

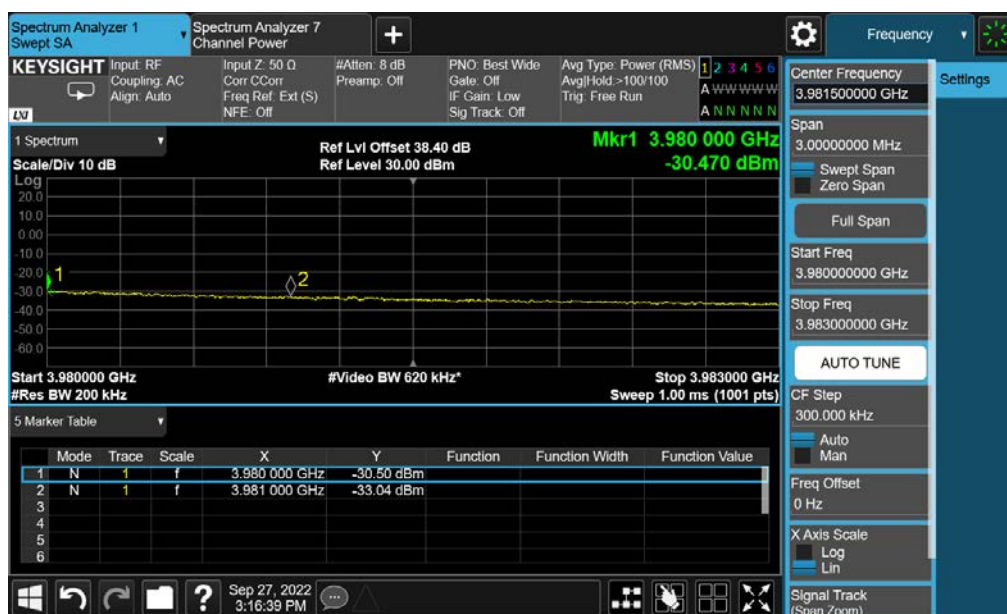


Out-of-band/out-of-block emissions

Downlink_AWGN_upper edge_two adjacent test signals_Pre-AGC

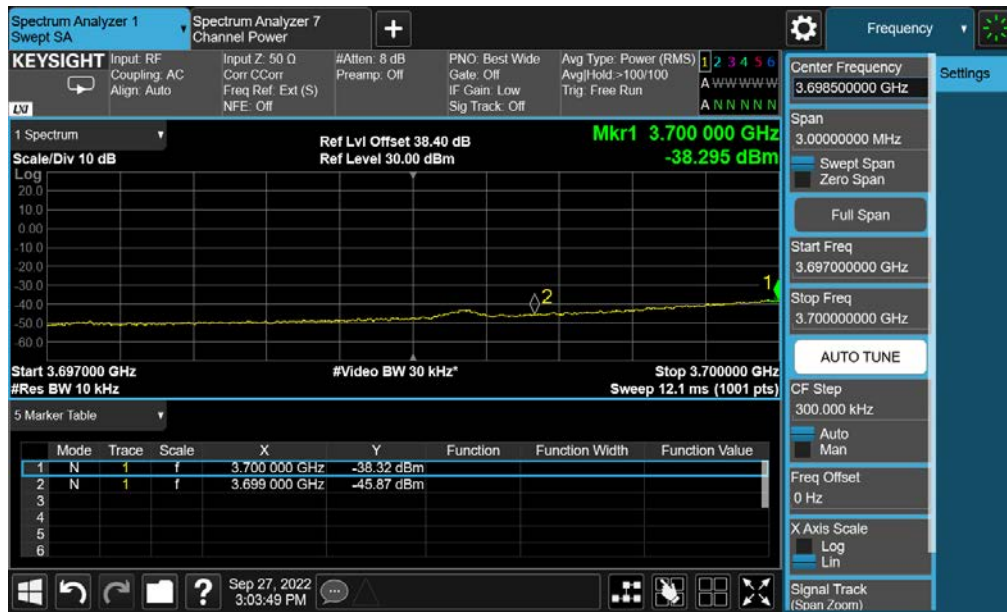


Downlink_AWGN_upper edge_two adjacent test signals_3dB above AGC

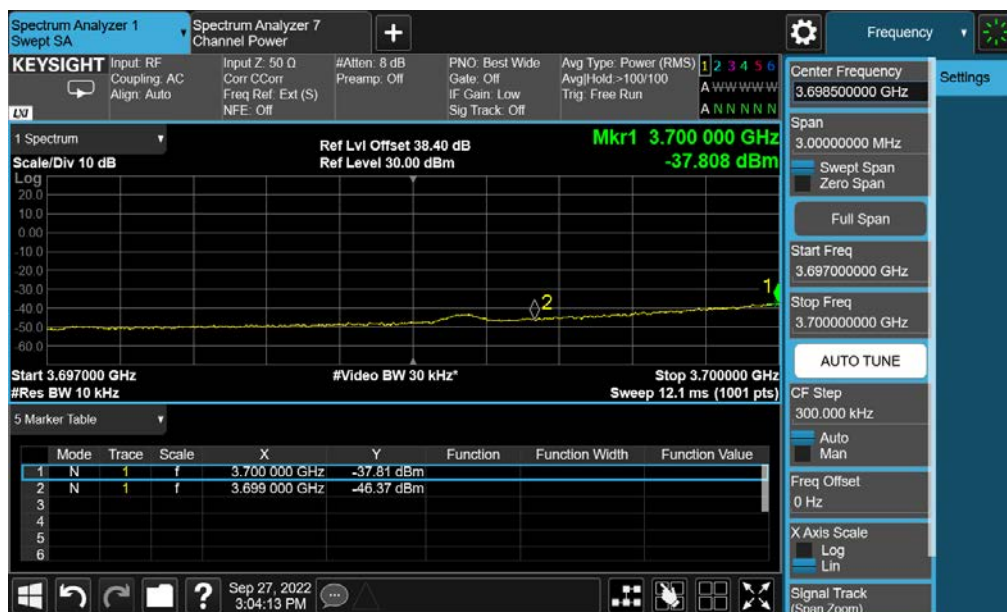


Out-of-band/out-of-block emissions

Downlink_GSM_lower edge_a single test signal_Pre-AGC



Downlink_GSM_lower edge_a single test signal_3dB above AGC

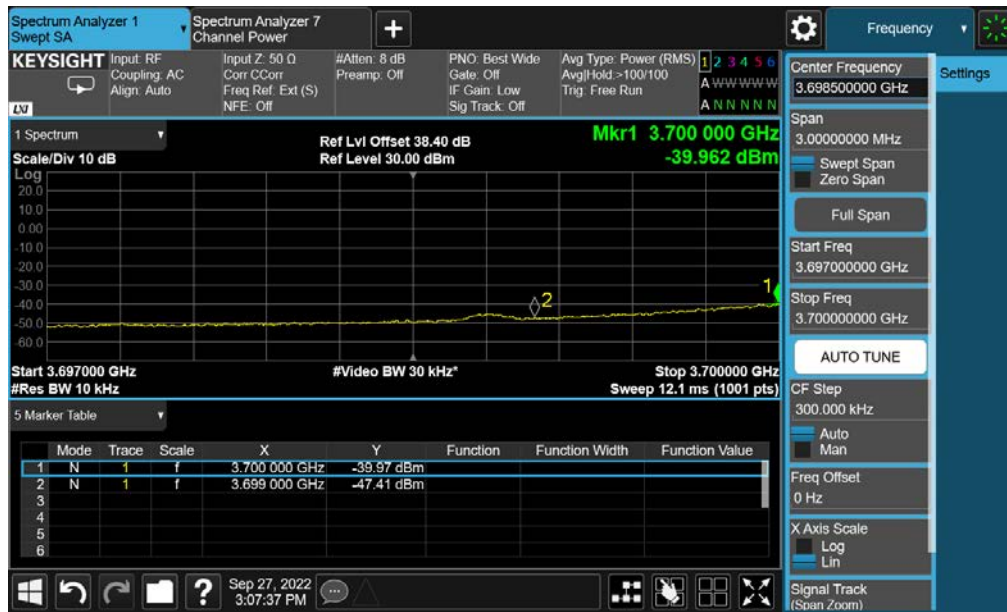


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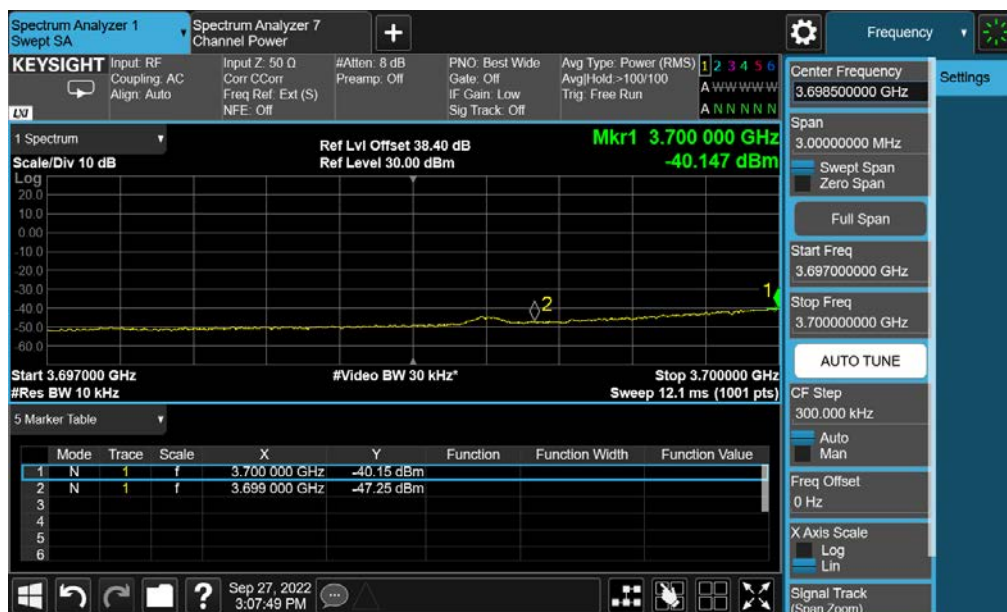
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Out-of-band/out-of-block emissions

Downlink_GSM_lower edge_two adjacent test signals_Pre-AGC

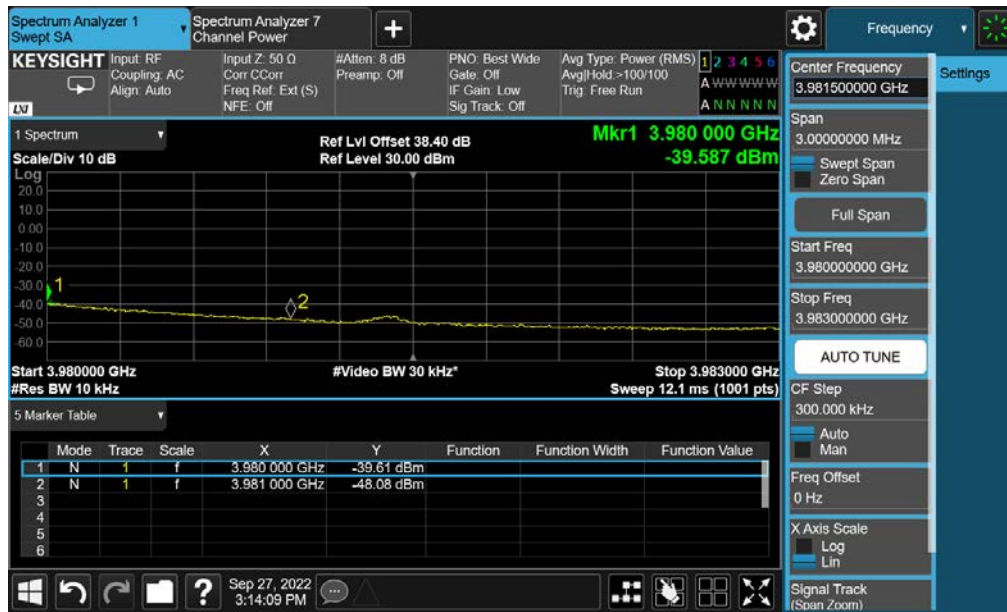


Downlink_GSM_lower edge_two adjacent test signals_3dB above AGC



Out-of-band/out-of-block emissions

Downlink_GSM_upper edge_a single test signal_Pre-AGC

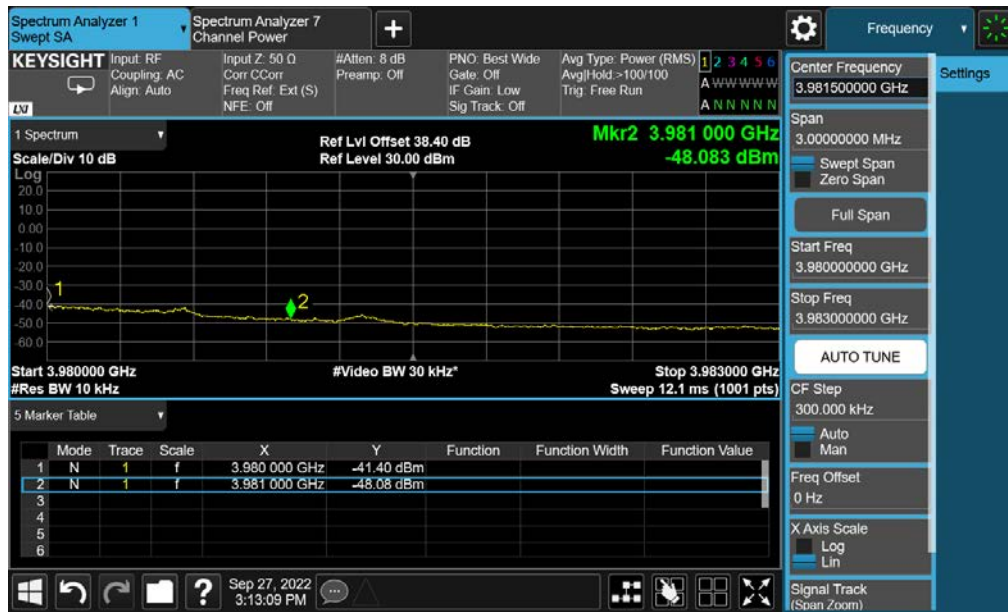


Downlink_GSM_upper edge_a single test signal_3dB above AGC

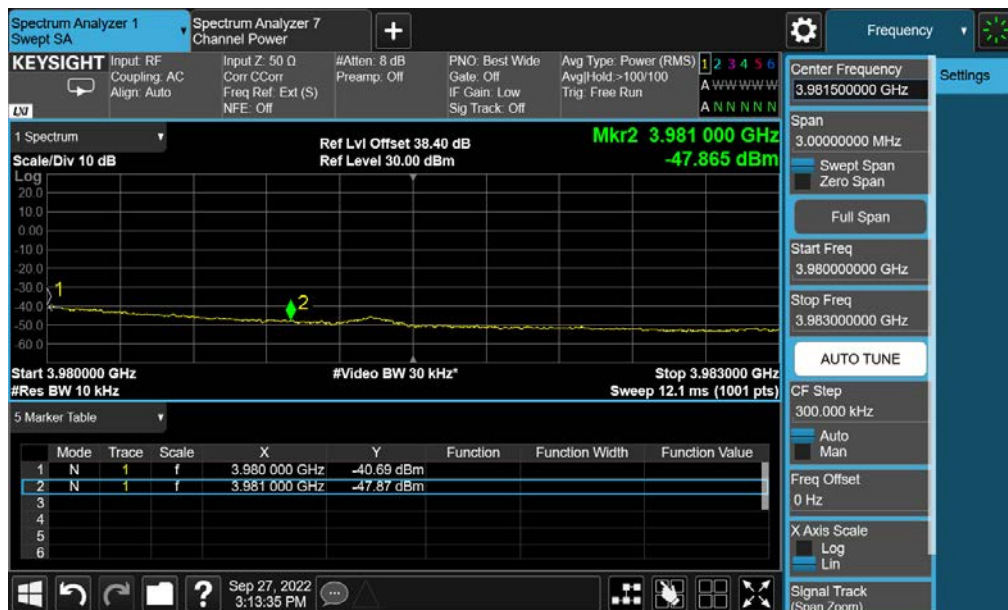


Out-of-band/out-of-block emissions

Downlink_GSM_upper edge_two adjacent test signals_Pre-AGC



Downlink_GSM_upper edge_two adjacent test signals_3dB above AGC





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5 Conducted Spurious emissions

Conducted spurious emissions							
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst test level (dBm/MHz)	Limit (dBm/MHz)	Verdict
Downlink	HCH	AWGN	Pre-AGC	30-1000	-26.50	≤ -16	PASS
				1000-3699	-25.92	≤ -16	PASS
				3981-40000	-20.48	≤ -16	PASS
	HCH	GSM	Pre-AGC	30-1000	-25.05	≤ -16	PASS
				1000-3699	-24.94	≤ -16	PASS
				3981-40000	-19.88	≤ -16	PASS
	MCH	AWGN	Pre-AGC	30-1000	-25.81	≤ -16	PASS
				1000-3699	-26.07	≤ -16	PASS
				3981-40000	-28.89	≤ -16	PASS
	MCH	GSM	Pre-AGC	30-1000	-23.86	≤ -16	PASS
				1000-3699	-25.62	≤ -16	PASS
				3981-40000	-28.60	≤ -16	PASS
	LCH	AWGN	Pre-AGC	30-1000	-26.51	≤ -16	PASS
				1000-3699	-22.56	≤ -16	PASS
				3981-40000	-28.80	≤ -16	PASS
	LCH	GSM	Pre-AGC	30-1000	-26.84	≤ -16	PASS
				1000-3699	-19.10	≤ -16	PASS
				3981-40000	-28.82	≤ -16	PASS

Remark:

For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by $10\lg(2) = 3\text{dB}$, so the limit was calculated to show -16dBm/MHz individually in order to determine the test result conveniently.



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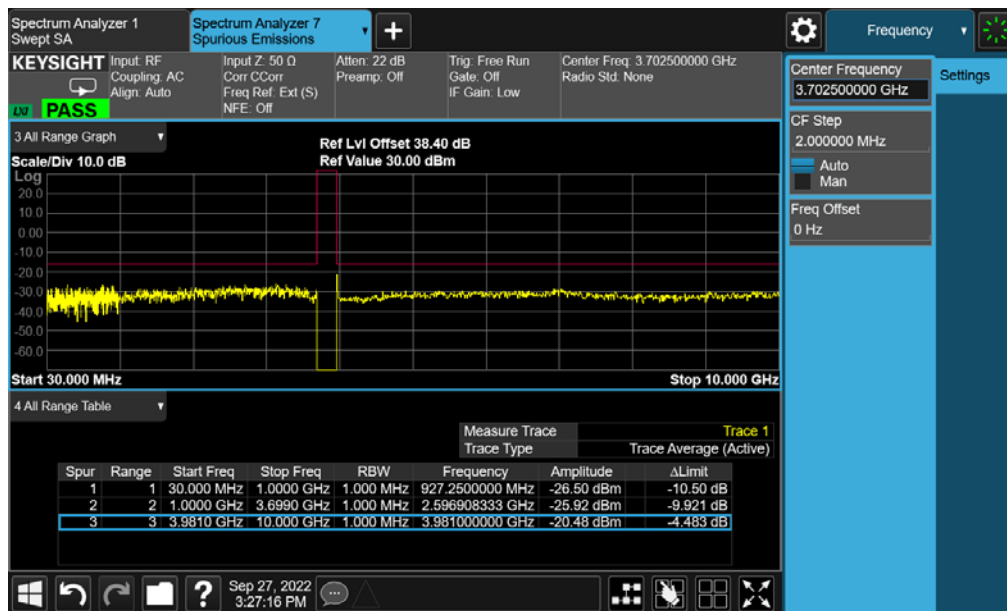
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Conducted spurious emissions

Downlink_AWGN_HCH

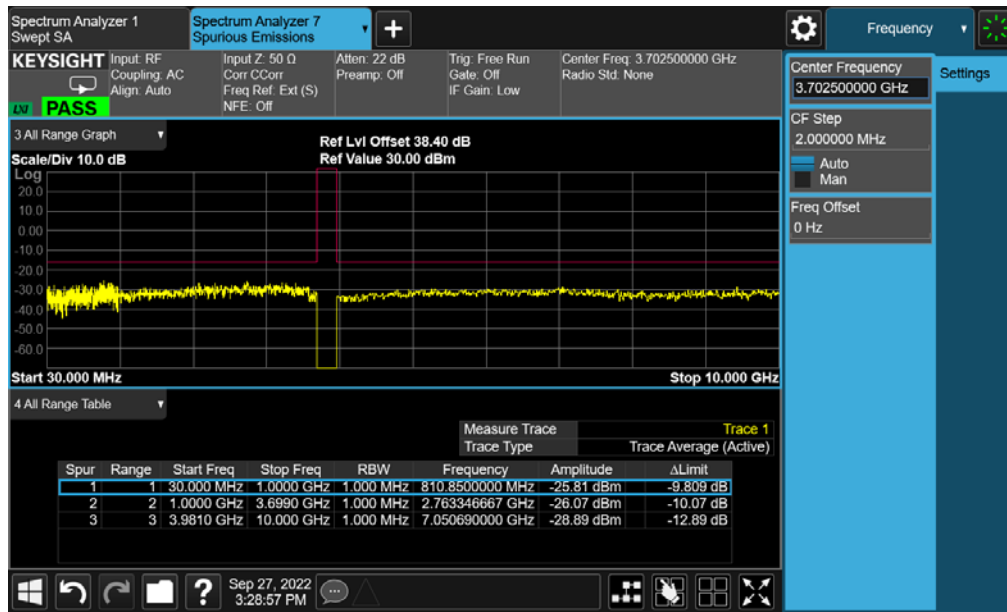


Downlink_AWGN_HCH



Conducted spurious emissions

Downlink_AWGN_MCH

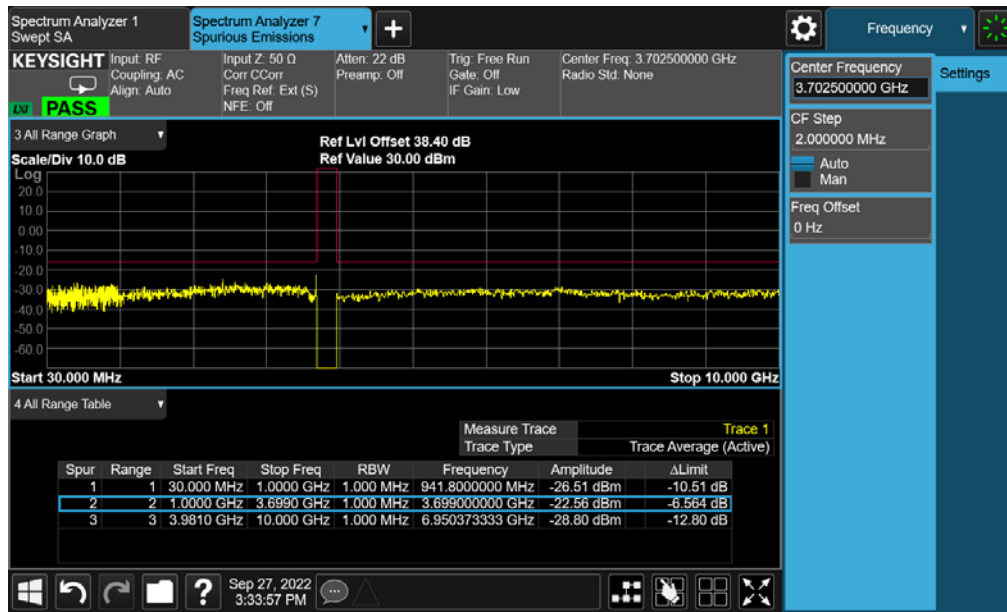


Downlink_AWGN_MCH



Conducted spurious emissions

Downlink_AWGN_LCH

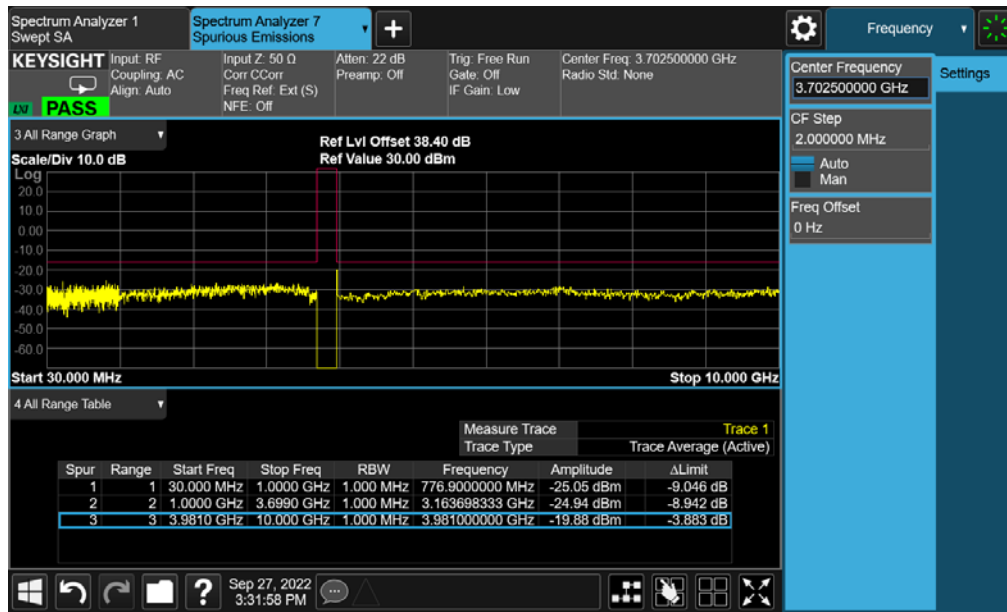


Downlink_AWGN_LCH



Conducted spurious emissions

Downlink_GSM_HCH

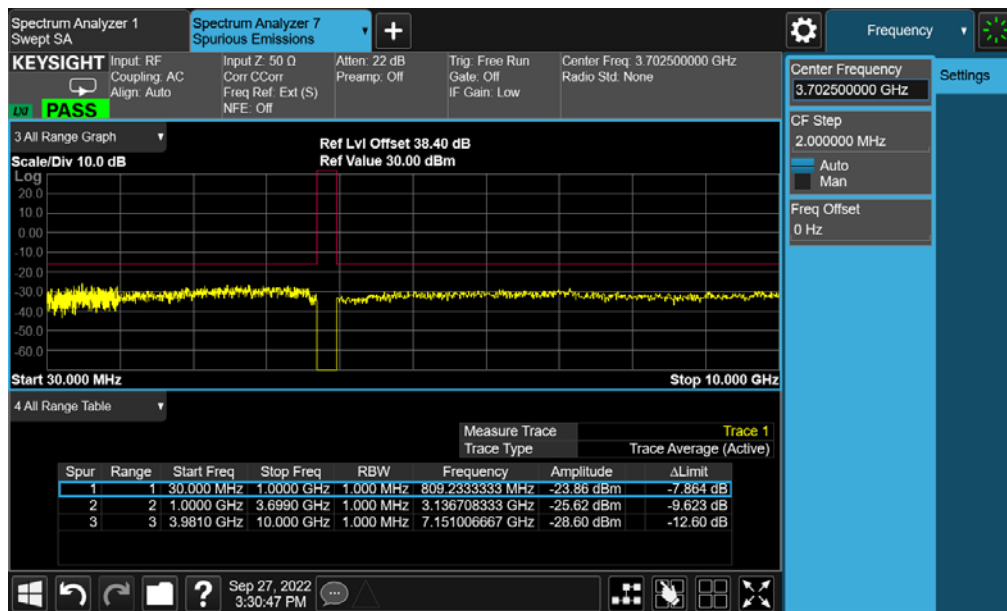


Downlink_GSM_HCH



Conducted spurious emissions

Downlink_GSM_MCH

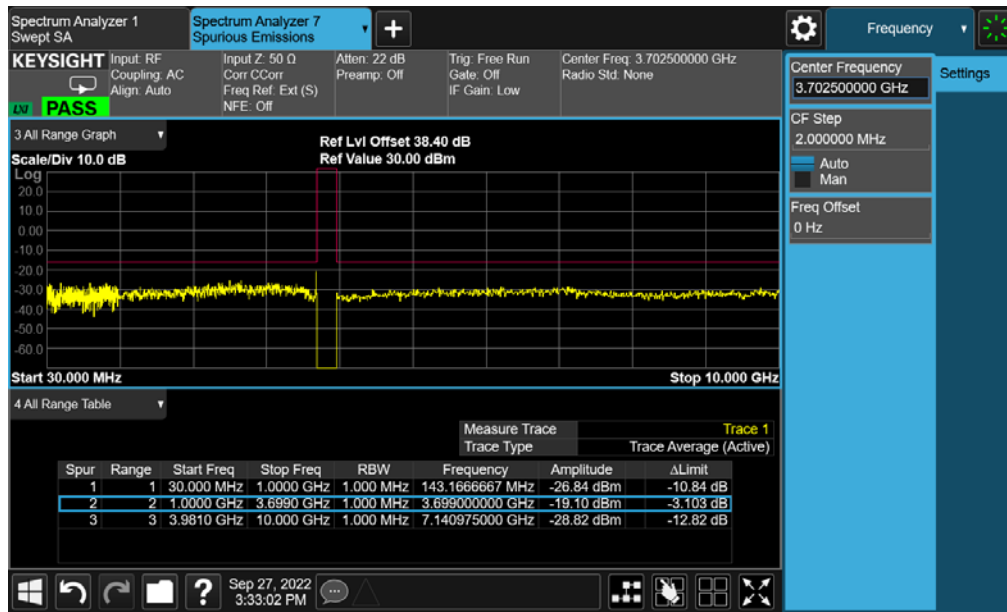


Downlink_GSM_MCH



Conducted spurious emissions

Downlink_GSM_LCH



Downlink_GSM_LCH





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6 Frequency Stability

Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Temperature (°C)	Voltage (V AC)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	MCH	AWGN	+50	110	32	0.008	PASS
			+40	110	24	0.006	PASS
			+30	110	21	0.005	PASS
			+20	110	40	0.010	PASS
			+10	110	38	0.010	PASS
			0	110	43	0.011	PASS
			-10	110	-32	-0.008	PASS
			-20	110	-16	-0.004	PASS
			-30	110	-23	-0.006	PASS
	MCH	GSM	+50	110	26	0.007	PASS
			+40	110	31	0.008	PASS
			+30	110	42	0.011	PASS
			+20	110	26	0.007	PASS
			+10	110	33	0.009	PASS
			0	110	18	0.005	PASS
			-10	110	-11	-0.003	PASS
			-20	110	-22	-0.006	PASS
			-30	110	33	0.009	PASS

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Voltage (V AC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	MCH	AWGN	93.5	20	28	0.007	PASS
			126.5	20	33	0.009	PASS
	MCH	GSM	93.5	20	44	0.011	PASS
			126.5	20	48	0.013	PASS



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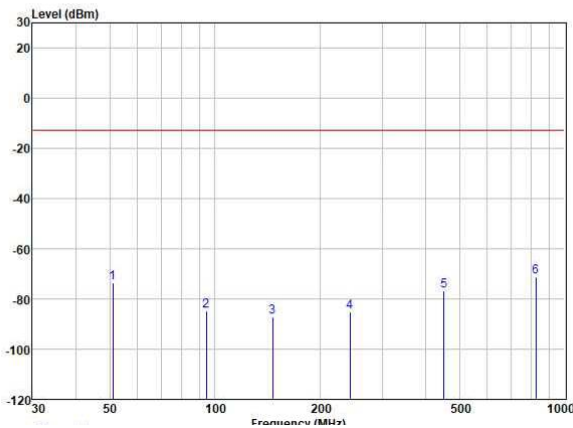
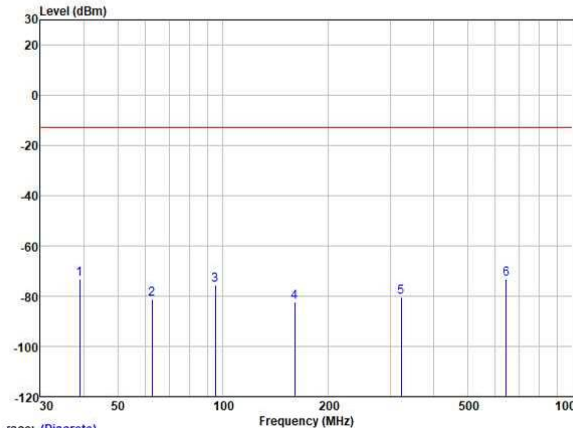
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7 Radiated Spurious emissions

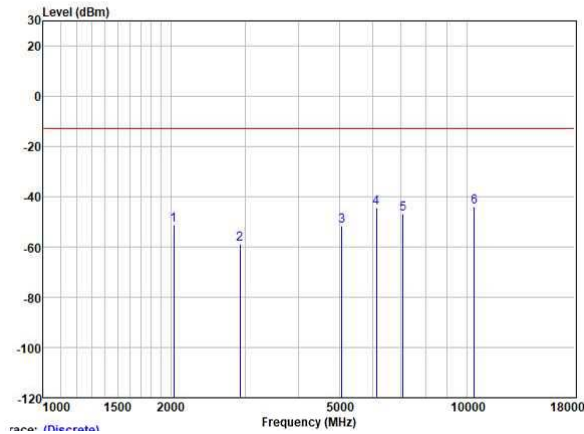
All modes have been tested and only the worst test result was recorded in this report.

Radiated Spurious emissions					
AWGN_MCH_30MHz-1GHz_Horizontal			AWGN_MCH_30MHz-1GHz_Vertical		
					
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
50.942	-73.6	-13	-60.6	Horizontal	PASS
94.428	-84.85	-13	-71.85	Horizontal	PASS
145.861	-87.03	-13	-74.03	Horizontal	PASS
243.377	-85.09	-13	-72.09	Horizontal	PASS
451.135	-76.75	-13	-63.75	Horizontal	PASS
827.493	-71.08	-13	-58.08	Horizontal	PASS

Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
38.888	-73.35	-13	-60.35	Vertical	PASS
62.651	-81.17	-13	-68.17	Vertical	PASS
95.093	-75.56	-13	-62.56	Vertical	PASS
160.346	-82.21	-13	-69.21	Vertical	PASS
323.32	-80.27	-13	-67.27	Vertical	PASS
645.12	-73.21	-13	-60.21	Vertical	PASS

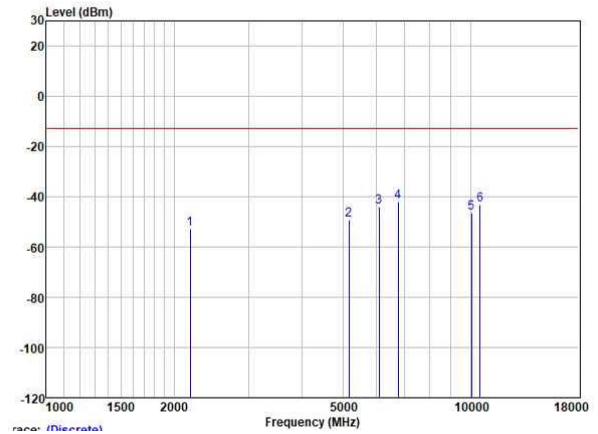
Radiated Spurious emissions

AWGN_MCH_1GHz-18GHz_Horizontal



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
2036.09	-51.2	-13	-38.2	Horizontal	PASS
2913.74	-58.76	-13	-45.76	Horizontal	PASS
5075.317	-51.72	-13	-38.72	Horizontal	PASS
6124.292	-44.41	-13	-31.41	Horizontal	PASS
7076.516	-46.8	-13	-33.8	Horizontal	PASS
10423.8	-43.93	-13	-30.93	Horizontal	PASS

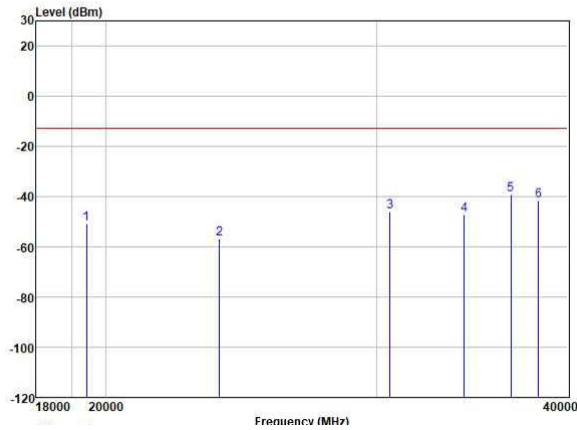
AWGN_MCH_1GHz-18GHz_Vertical



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
2182.346	-52.78	-13	-39.78	Vertical	PASS
5164.102	-49.01	-13	-36.01	Vertical	PASS
6088.991	-44.18	-13	-31.18	Vertical	PASS
6756.708	-42.19	-13	-29.19	Vertical	PASS
10068.45	-46.52	-13	-33.52	Vertical	PASS
10545.01	-43.08	-13	-30.08	Vertical	PASS

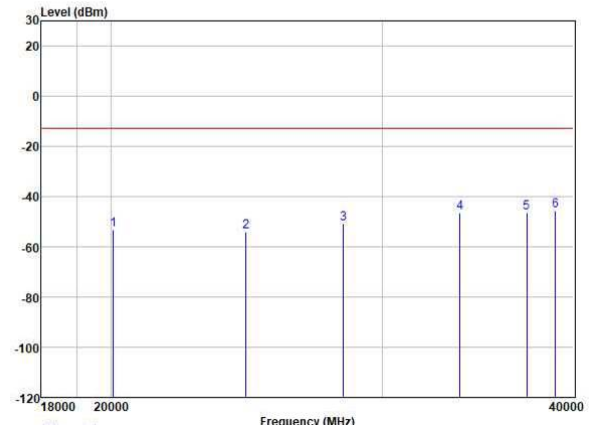
Radiated Spurious emissions

AWGN_MCH_18GHz-40GHz_Horizontal



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
19418.57	-50.83	-13	-37.83	Horizontal	PASS
23709.05	-56.99	-13	-43.99	Horizontal	PASS
30636.06	-46.03	-13	-33.03	Horizontal	PASS
34232.33	-47.08	-13	-34.08	Horizontal	PASS
36724.32	-39.12	-13	-26.12	Horizontal	PASS
38281.3	-41.47	-13	-28.47	Horizontal	PASS

AWGN_MCH_18GHz-40GHz_Vertical



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over limit (dBm)	Pol	Verdict
20048.82	-53.26	-13	-40.26	Vertical	PASS
24459.01	-53.8	-13	-40.8	Vertical	PASS
28307.47	-50.86	-13	-37.86	Vertical	PASS
33716.89	-46.41	-13	-33.41	Vertical	PASS
37285.73	-46.41	-13	-33.41	Vertical	PASS
38928.64	-45.75	-13	-32.75	Vertical	PASS

--End of Appendix--