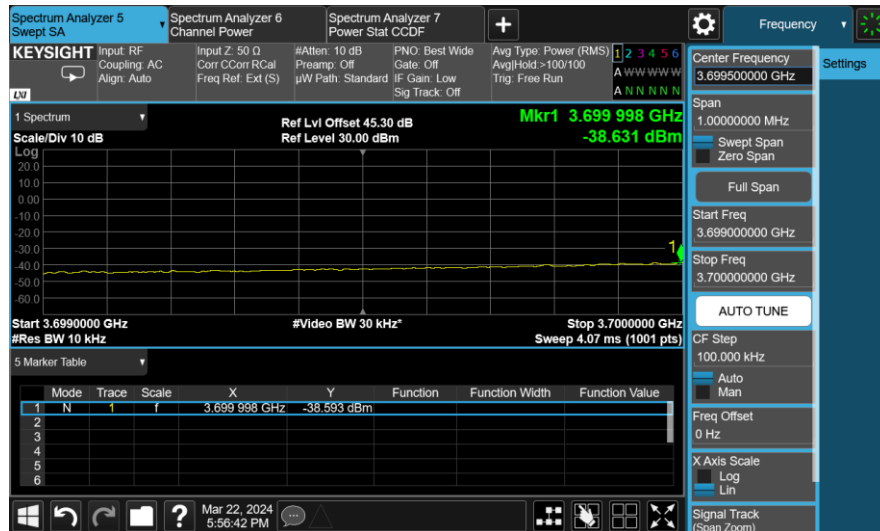
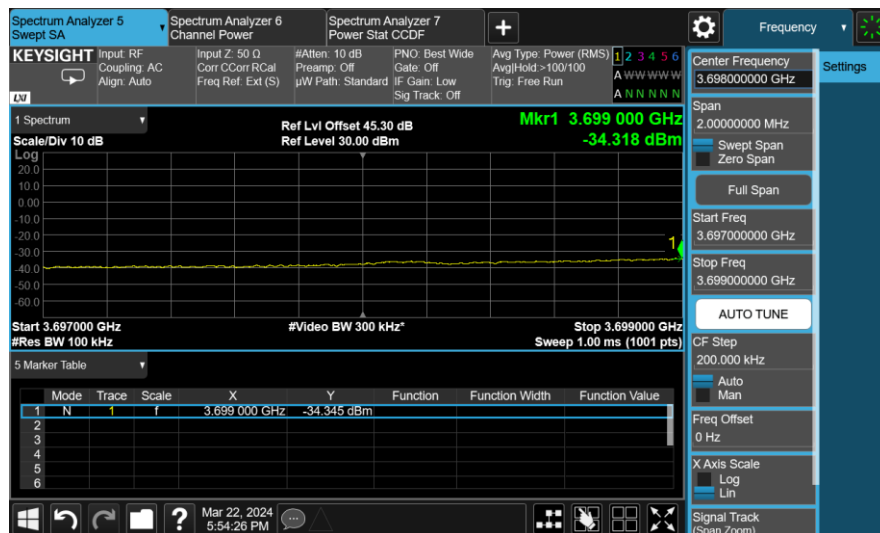


Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC 1



DL_GSM_LCH_a single test signal_Pre-AGC 2



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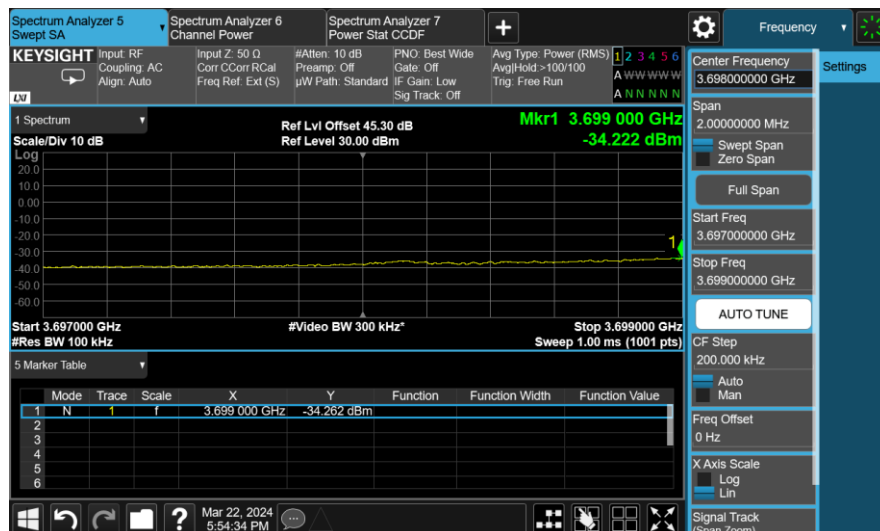
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_3dB above AGC 1



DL_GSM_LCH_a single test signal_3dB above AGC 2



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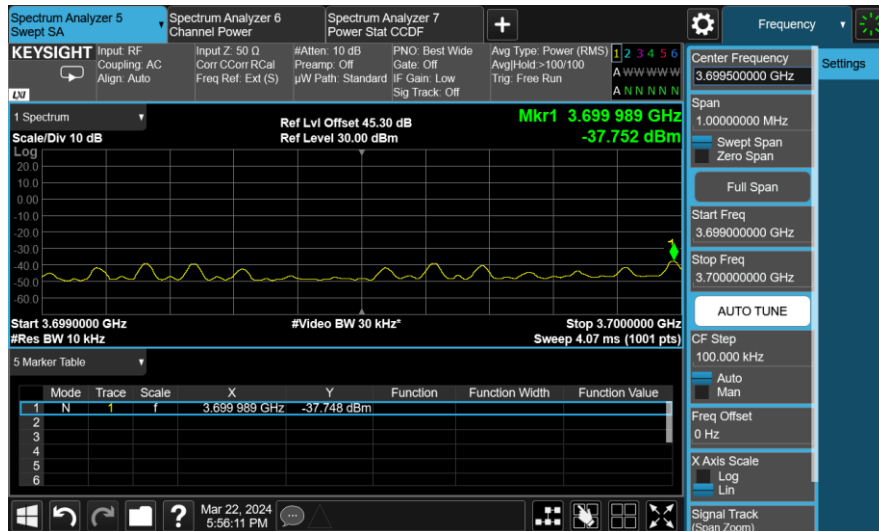
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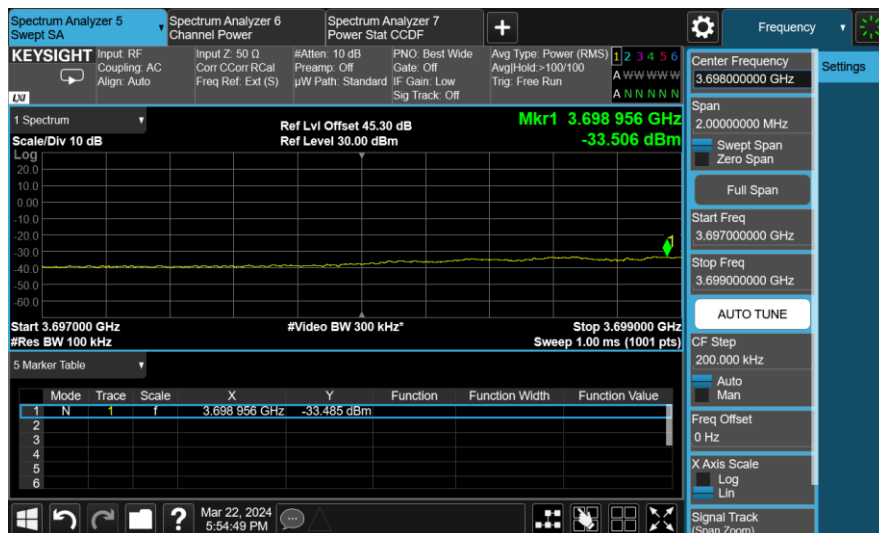
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC 1



DL_GSM_LCH_two adjacent test signals_Pre-AGC 2



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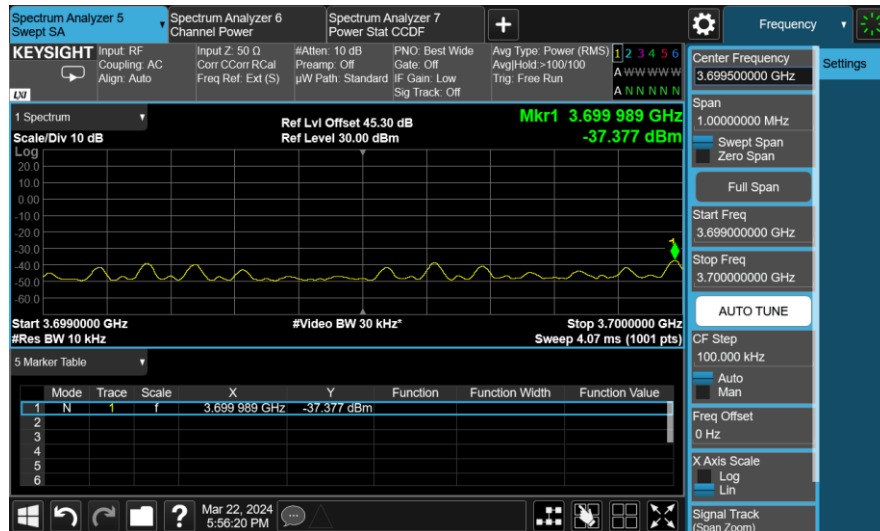
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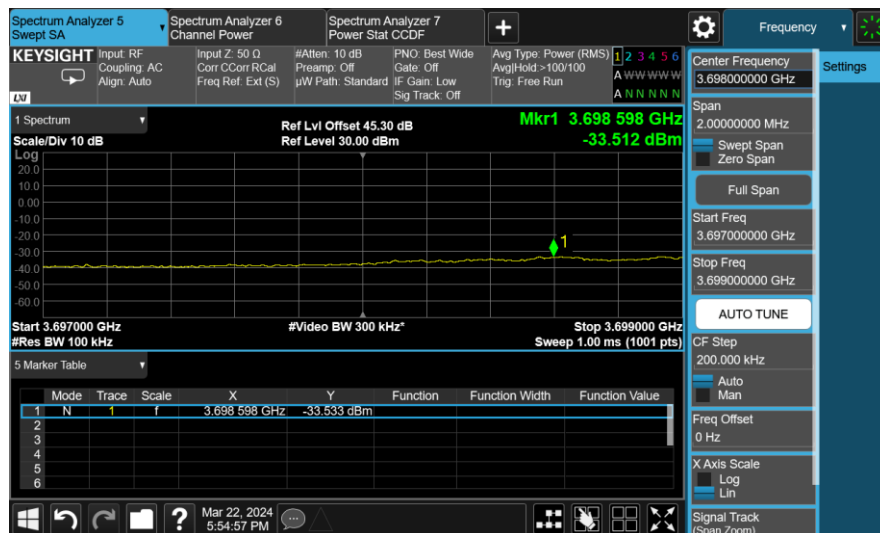
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals _3dB above AGC 1

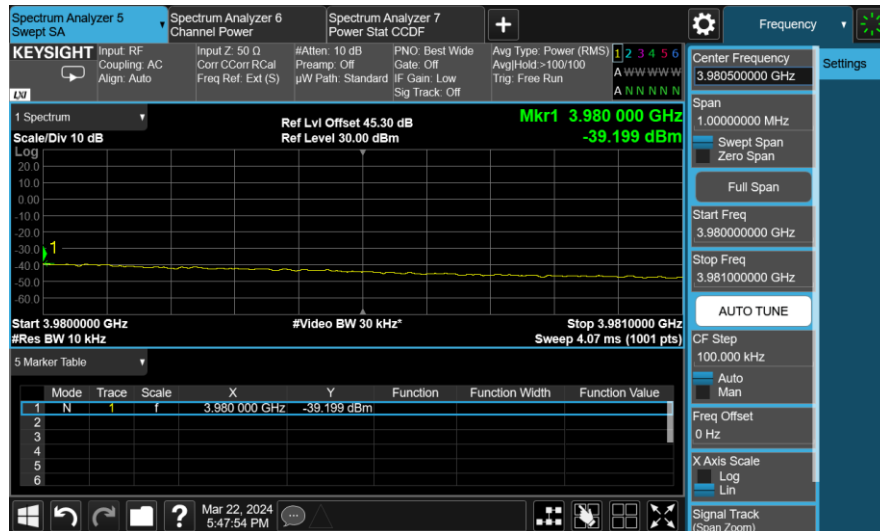


DL_GSM_LCH_two adjacent test signals _3dB above AGC 2

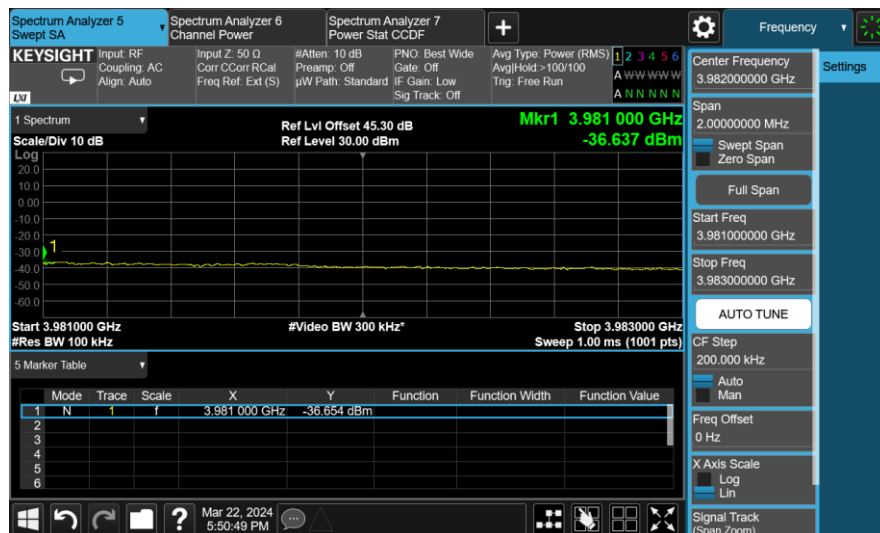


Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC 1



DL_GSM_HCH_a single test signal_Pre-AGC 2

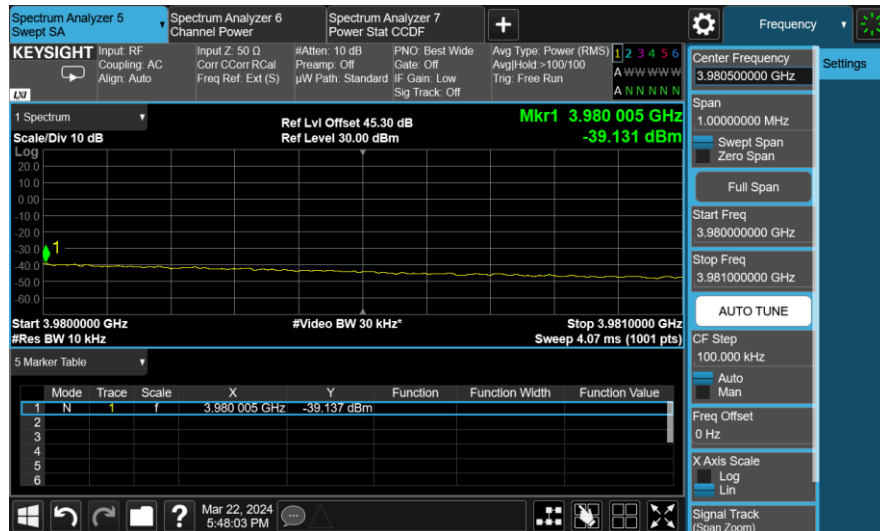


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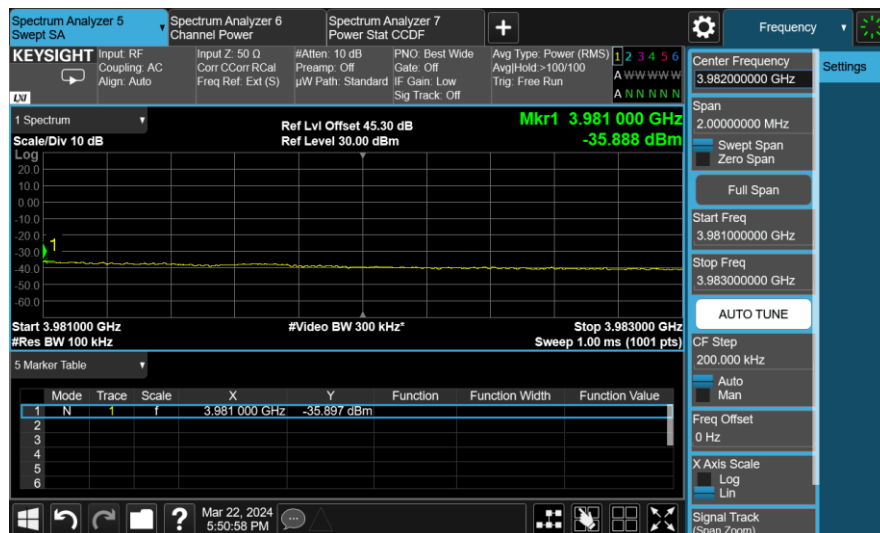
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_3dB above AGC 1



DL_GSM_HCH_a single test signal_3dB above AGC 2



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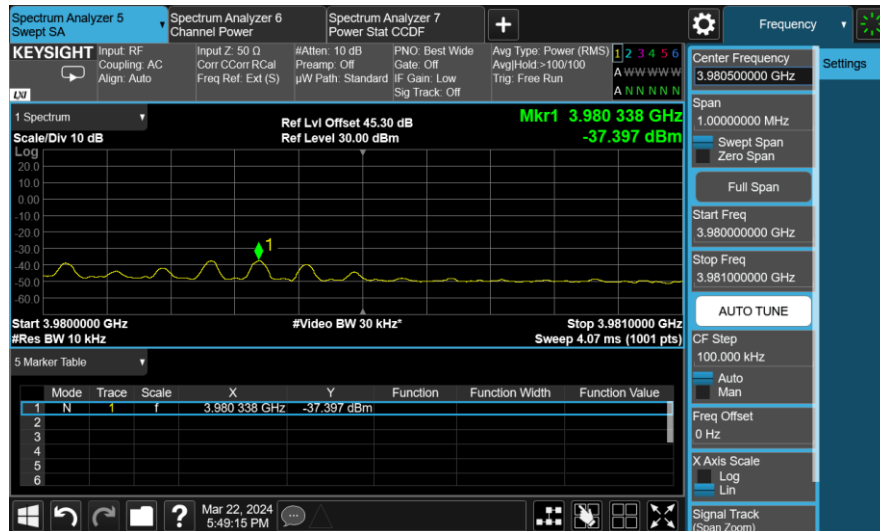
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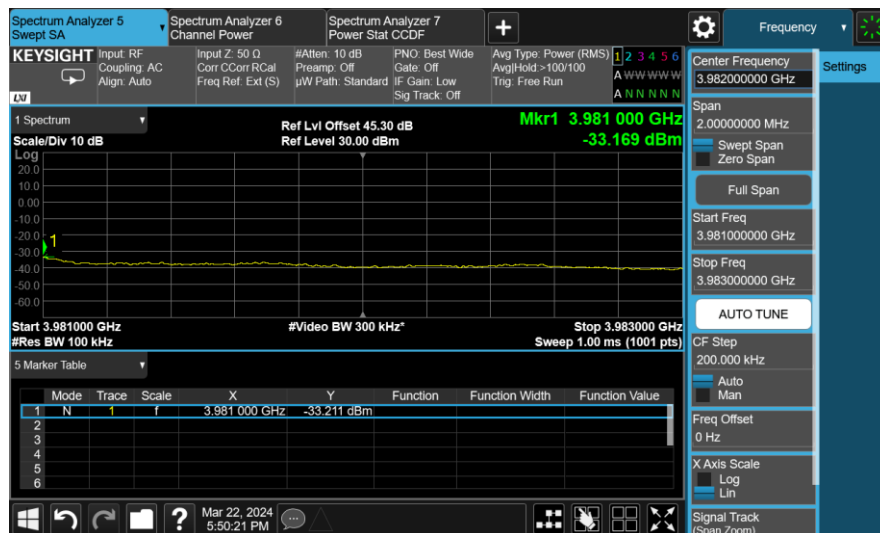
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC 1



DL_GSM_HCH_two adjacent test signals_Pre-AGC 2



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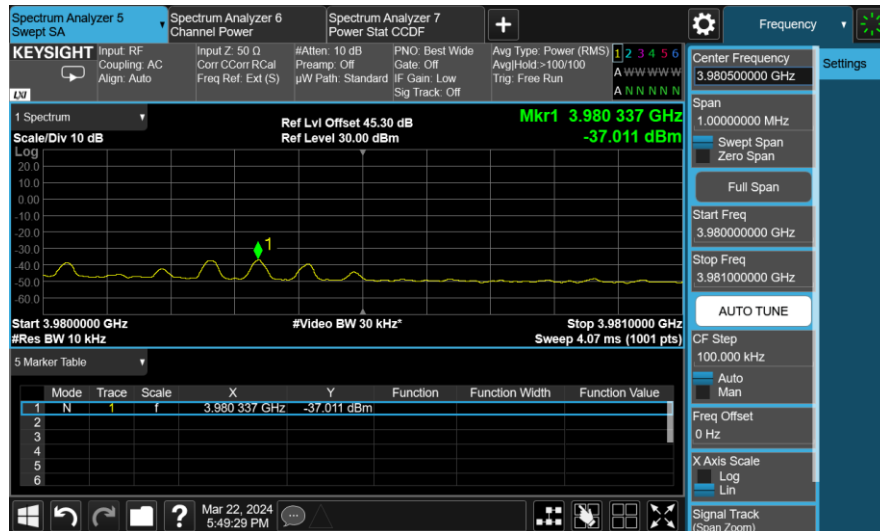
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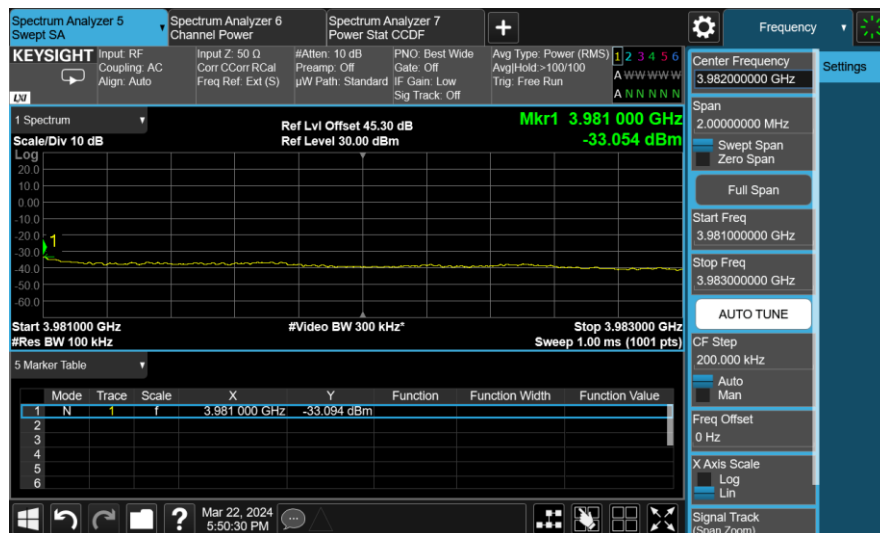
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_3dB above AGC 1



DL_GSM_HCH_two adjacent test signals_3dB above AGC 2



5 Conducted Spurious emissions



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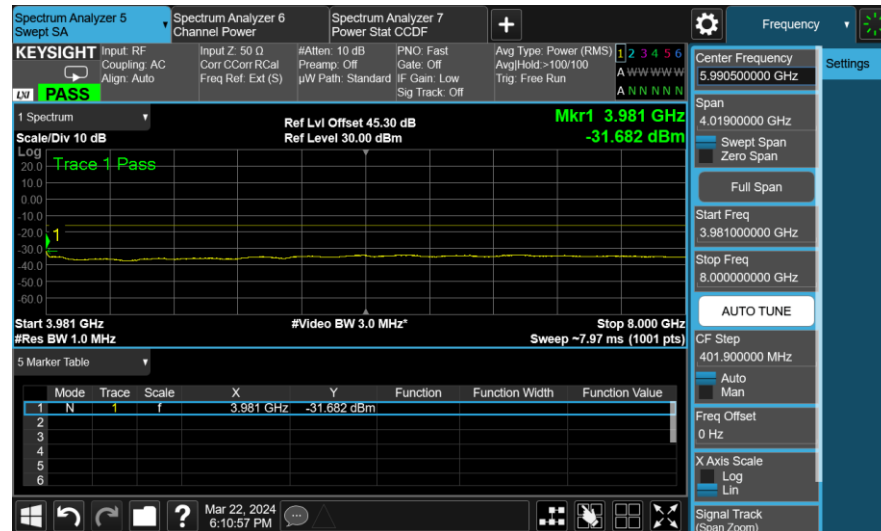
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Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC 3



DL_4.1MHz AWGN_LCH_Pre-AGC 4



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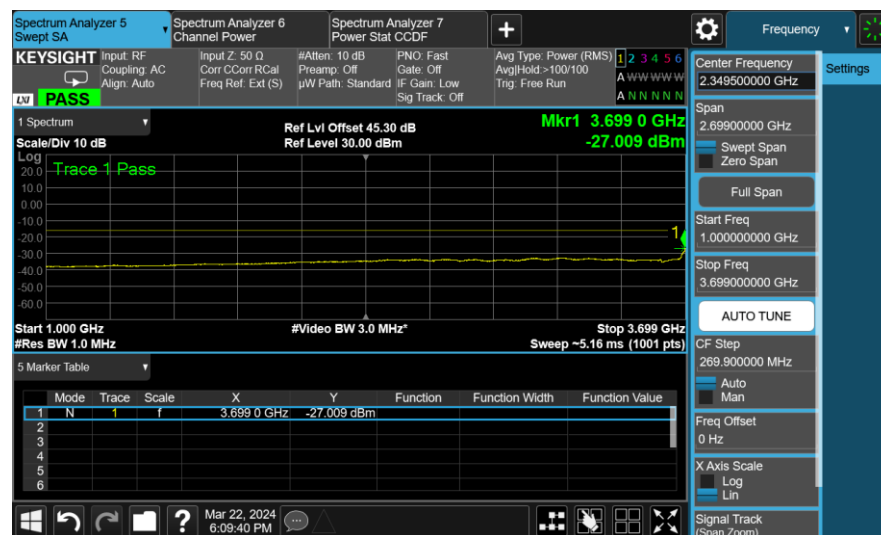
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Conducted spurious emissions

DL_4.1MHz AWGN_MCH_Pre-AGC 1



DL_4.1MHz AWGN_MCH_Pre-AGC 2



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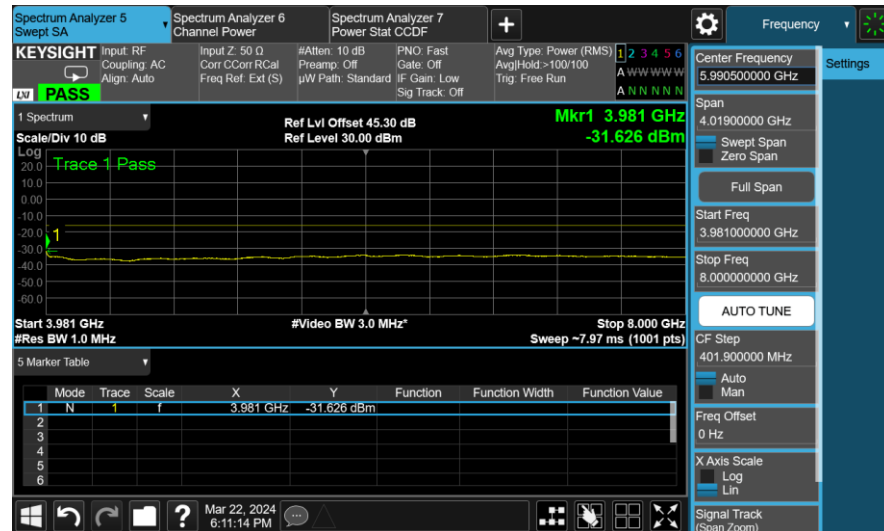
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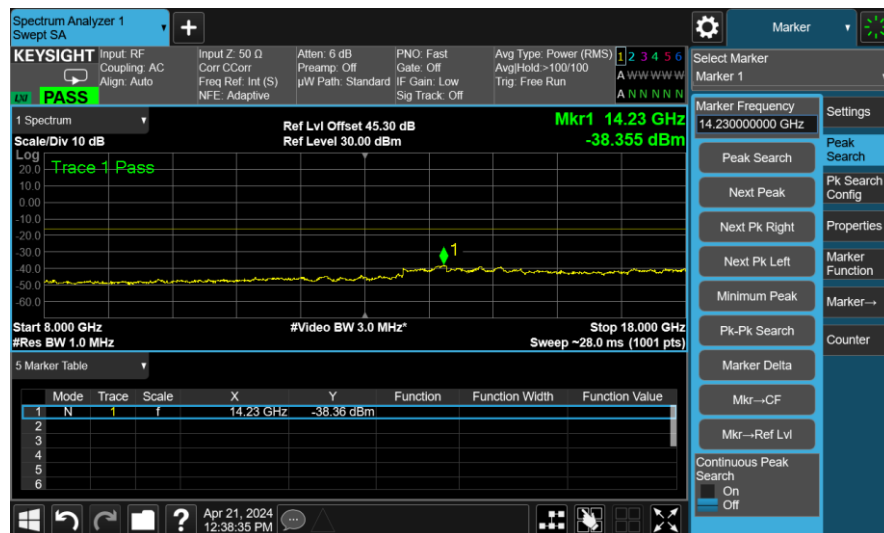
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Conducted spurious emissions

DL_4.1MHz AWGN_MCH_Pre-AGC 3



DL_4.1MHz AWGN_MCH_Pre-AGC 4



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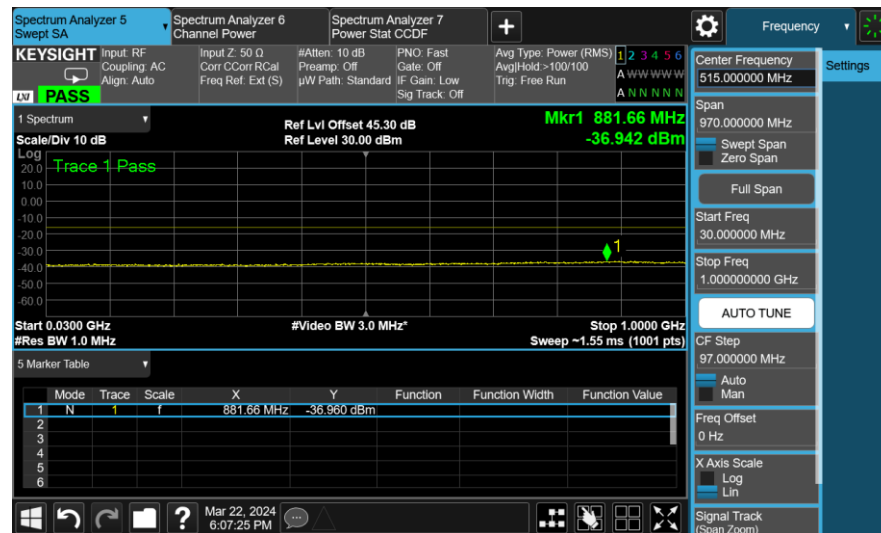
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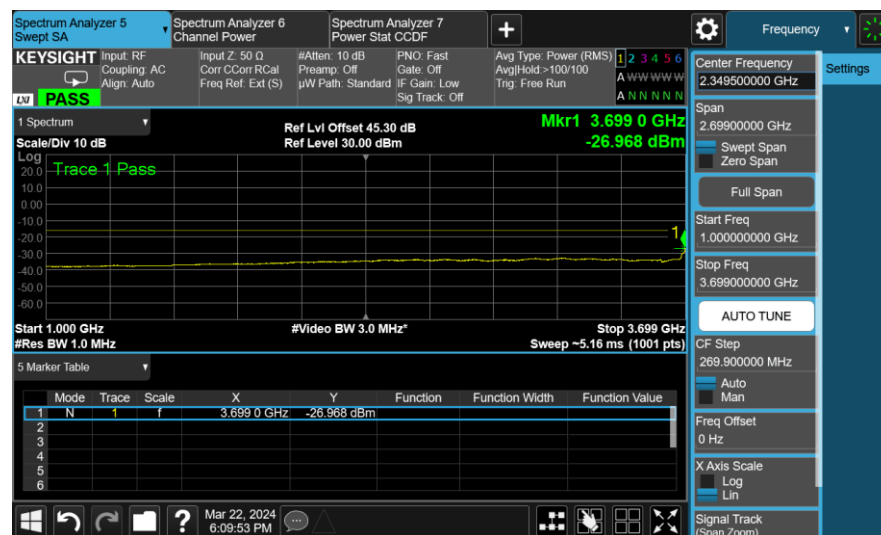
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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC 1



DL_4.1MHz AWGN_HCH_Pre-AGC 2



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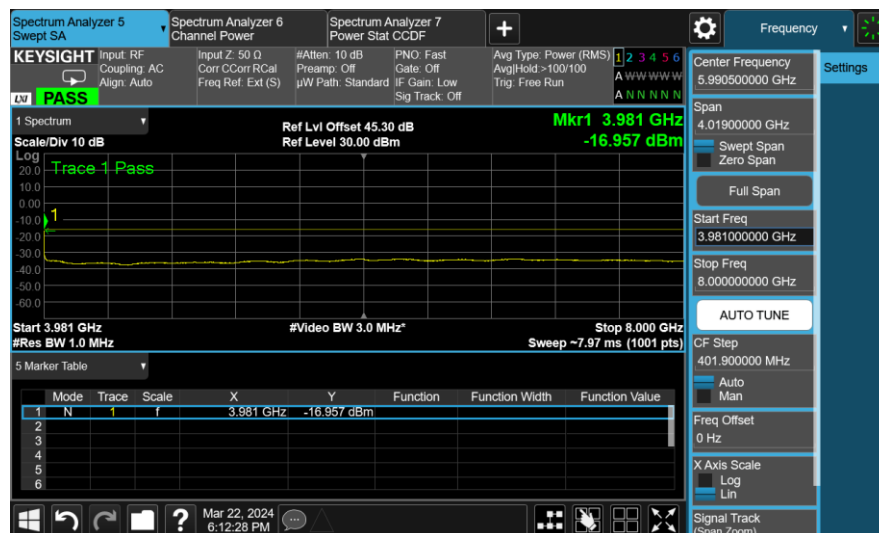
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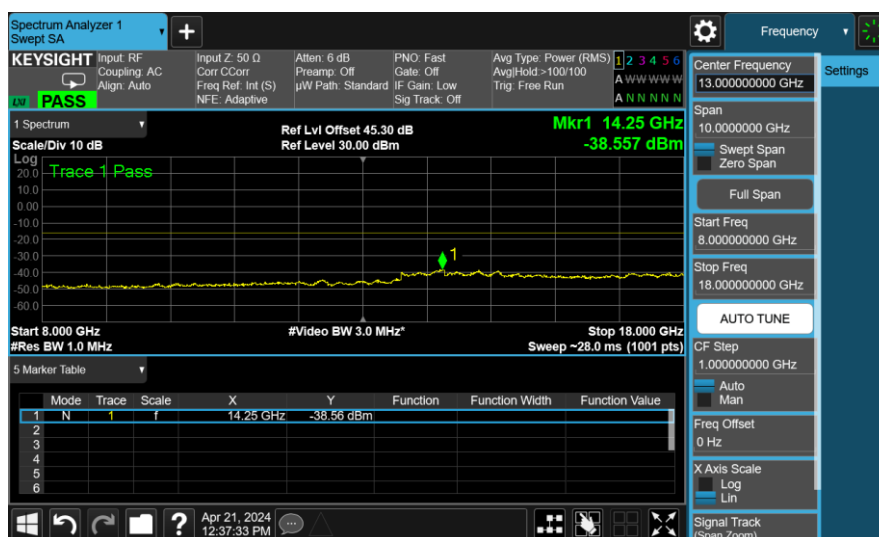
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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC 3



DL_4.1MHz AWGN_HCH_Pre-AGC 4



Remark:

1. For 2×2 MIMO, one of ANT ports was measured and the limit shall be reduced by 10lg(2), so the limits were calculated to show -16dBm/MHz individually in order to determine the test result conveniently.
2. The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.
3. All modes (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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EMC-ARF-05 Rev 1.1

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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
DL	3840	4.1MHz AWGN	TN	VL	20	0.0052	PASS
			TN	VH	18	0.0047	PASS
		100MHz AWGN	TN	VL	11	0.0029	PASS
			TN	VH	13	0.0034	PASS
		GSM	TN	VL	15	0.0039	PASS
			TN	VH	19	0.0049	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
DL	3500	4.1MHz AWGN	VN	+50	14	0.0036	PASS
			VN	+40	19	0.0049	PASS
			VN	+30	10	0.0026	PASS
			VN	+20	15	0.0039	PASS
			VN	+10	18	0.0047	PASS
			VN	0	13	0.0034	PASS
			VN	-10	15	0.0039	PASS
			VN	-20	17	0.0044	PASS
			VN	-30	17	0.0044	PASS
	3500	100MHz AWGN	VN	+50	14	0.0036	PASS
			VN	+40	13	0.0034	PASS
			VN	+30	16	0.0042	PASS
			VN	+20	14	0.0036	PASS
			VN	+10	16	0.0042	PASS
			VN	0	16	0.0042	PASS
			VN	-10	17	0.0044	PASS
			VN	-20	15	0.0039	PASS
			VN	-30	19	0.0049	PASS
	3500	GSM	VN	+50	9	0.0023	PASS
			VN	+40	11	0.0029	PASS
			VN	+30	15	0.0039	PASS
			VN	+20	8	0.0021	PASS
			VN	+10	11	0.0029	PASS
			VN	0	12	0.0031	PASS
			VN	-10	15	0.0039	PASS
			VN	-20	13	0.0034	PASS
			VN	-30	14	0.0036	PASS



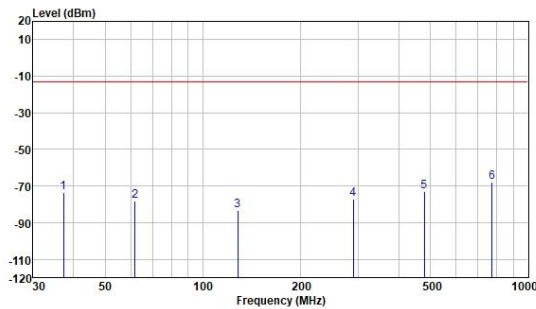
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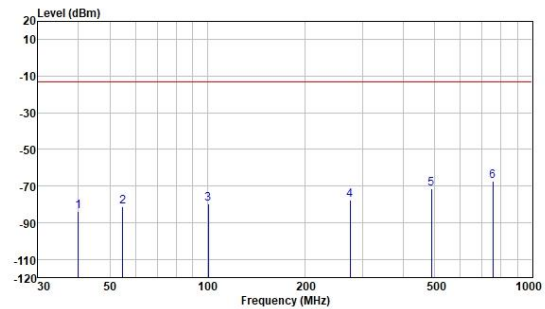
7 Radiated Spurious emissions

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	37.29	-75.96	2.41	-73.55	-13.00	-60.55	HORIZONTAL
2	61.78	-75.14	-3.01	-78.15	-13.00	-65.15	HORIZONTAL
3	127.66	-74.86	-8.29	-83.15	-13.00	-70.15	HORIZONTAL
4	298.02	-74.60	-2.72	-77.32	-13.00	-64.32	HORIZONTAL
5	478.85	-73.29	0.35	-72.94	-13.00	-59.94	HORIZONTAL
6	774.16	-73.76	5.91	-67.85	-13.00	-54.85	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	39.99	-75.99	-7.83	-83.82	-13.00	-70.82	VERTICAL
2	54.83	-76.94	-4.45	-81.39	-13.00	-68.39	VERTICAL
3	100.58	-74.66	-5.11	-79.77	-13.00	-66.77	VERTICAL
4	274.19	-74.54	-3.07	-77.61	-13.00	-64.61	VERTICAL
5	489.03	-73.24	1.99	-71.25	-13.00	-58.25	VERTICAL
6	755.39	-73.91	6.41	-67.50	-13.00	-54.50	VERTICAL

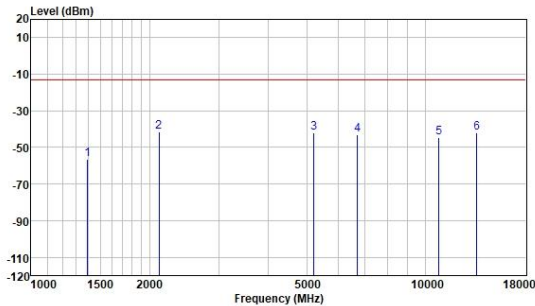


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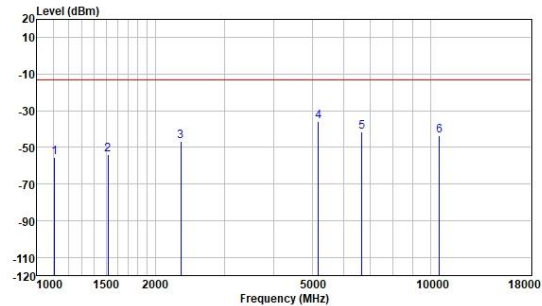
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1390.28	-61.16	4.56	-56.60	-13.00	-43.60	HORIZONTAL
2	2114.05	-51.05	9.47	-41.58	-13.00	-28.58	HORIZONTAL
3	5209.08	-54.29	12.55	-41.74	-13.00	-28.74	HORIZONTAL
4	6717.76	-63.58	20.32	-43.26	-13.00	-30.26	HORIZONTAL
5	10822.92	-68.37	23.96	-44.41	-13.00	-31.41	HORIZONTAL
6	13481.72	-69.89	27.86	-42.03	-13.00	-29.03	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1109.66	-59.56	4.39	-55.17	-13.00	-42.17	VERTICAL
2	1516.21	-60.79	6.70	-54.09	-13.00	-41.09	VERTICAL
3	2318.91	-56.22	9.64	-46.58	-13.00	-33.58	VERTICAL
4	5179.05	-48.19	12.38	-35.81	-13.00	-22.81	VERTICAL
5	6679.04	-62.33	20.72	-41.61	-13.00	-28.61	VERTICAL
6	10514.58	-68.52	24.78	-43.74	-13.00	-30.74	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 spurious emissions 9kHz to 30MHz and above 18GHz 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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