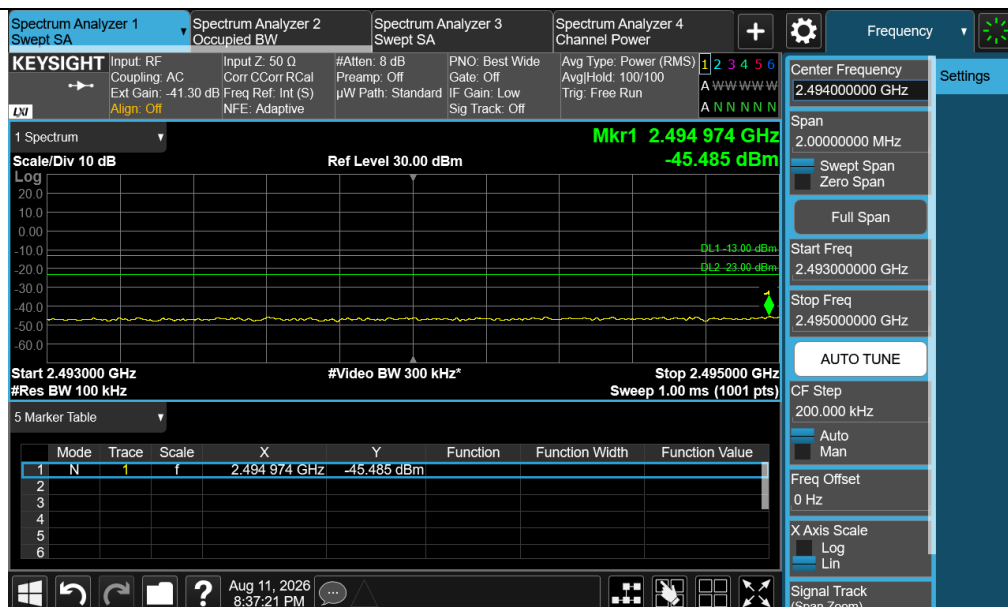


Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_3dB above AGC



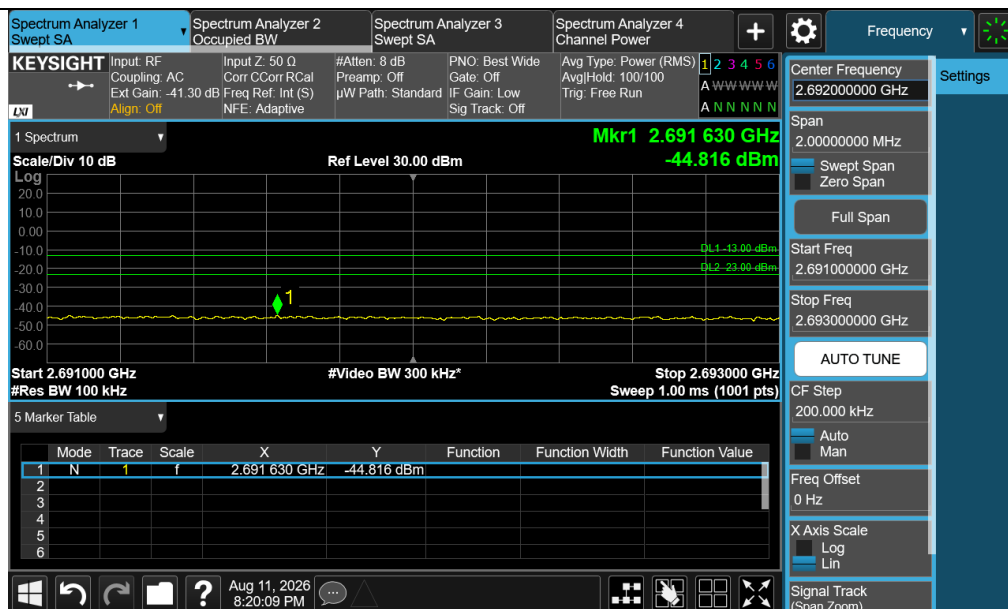
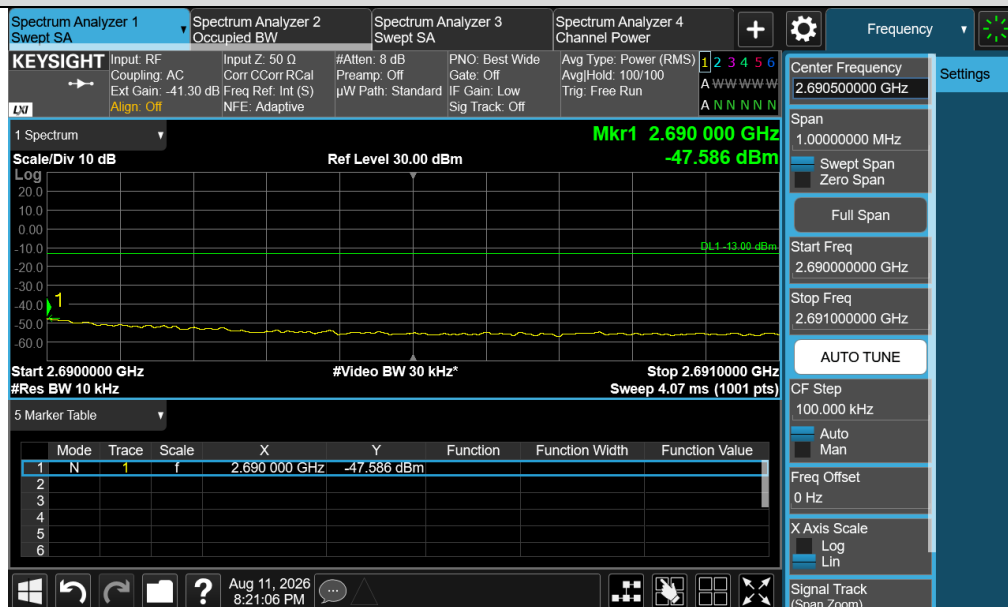
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



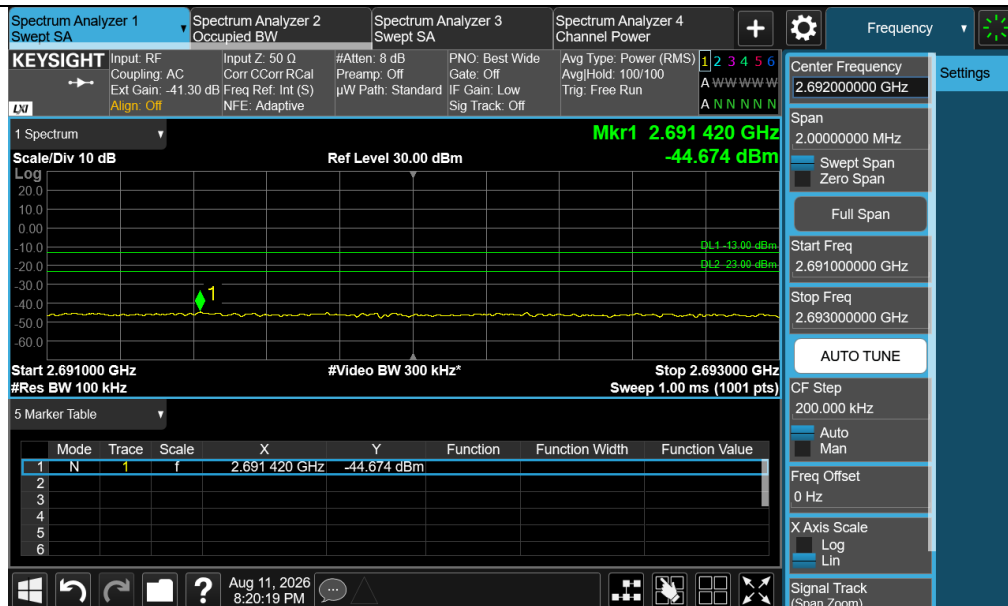
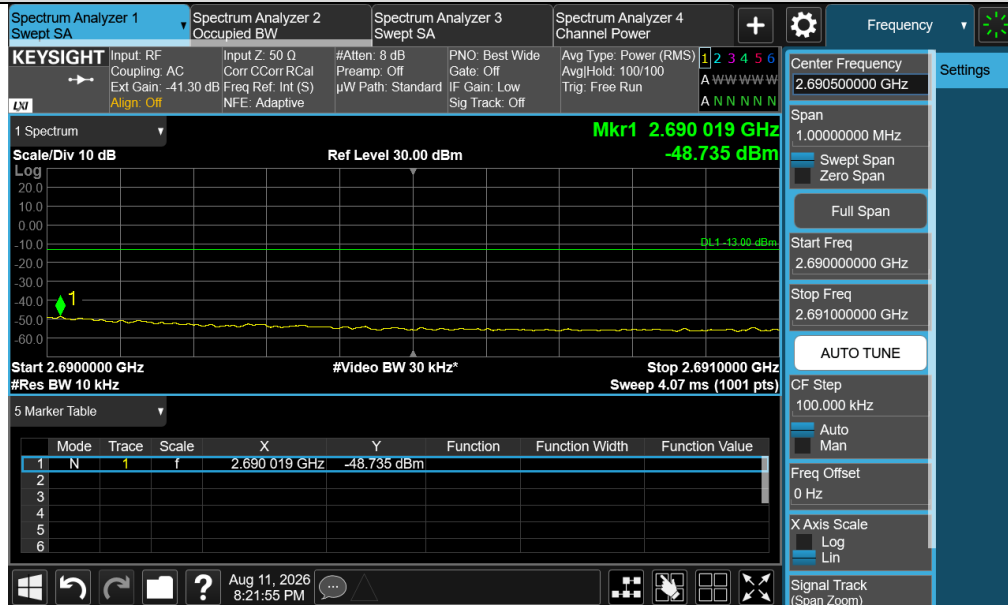
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_3dB above AGC

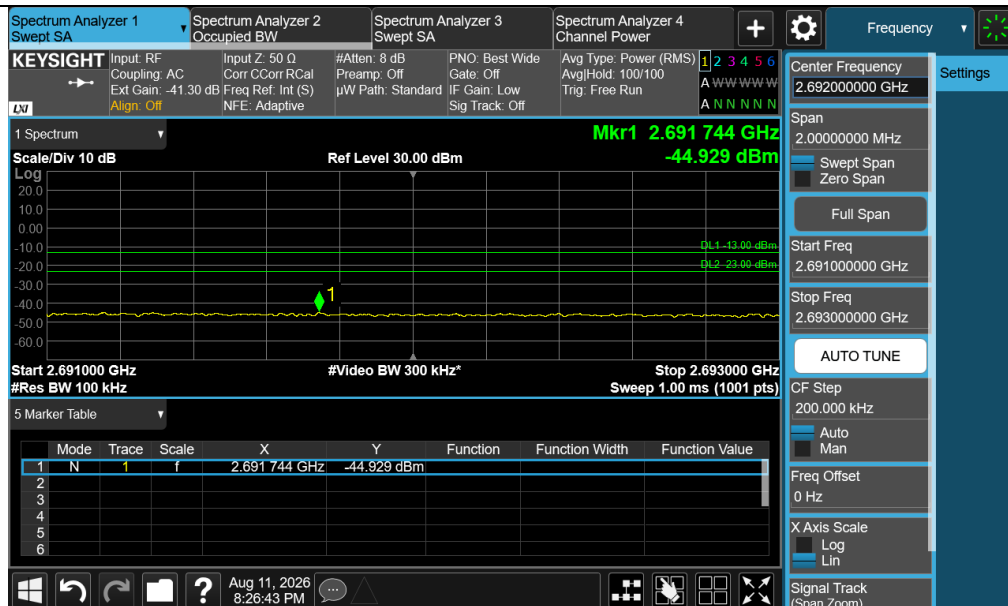
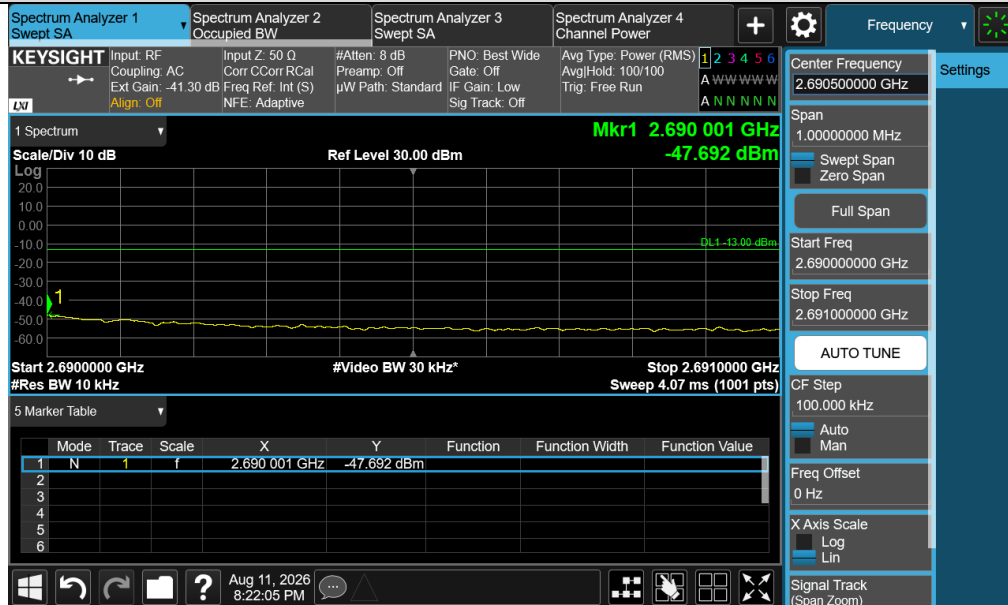


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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC

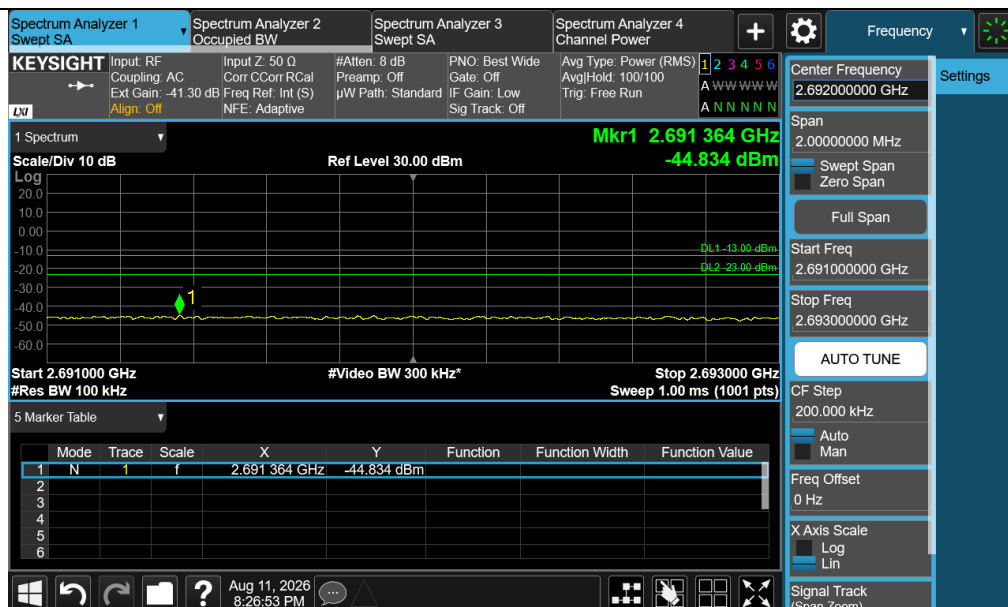
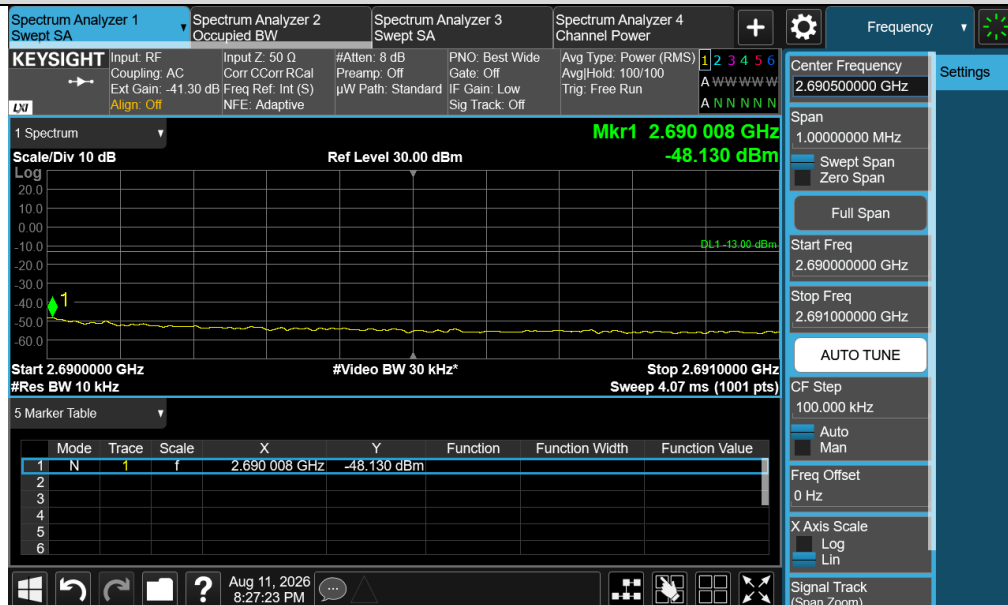


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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_3dB above AGC

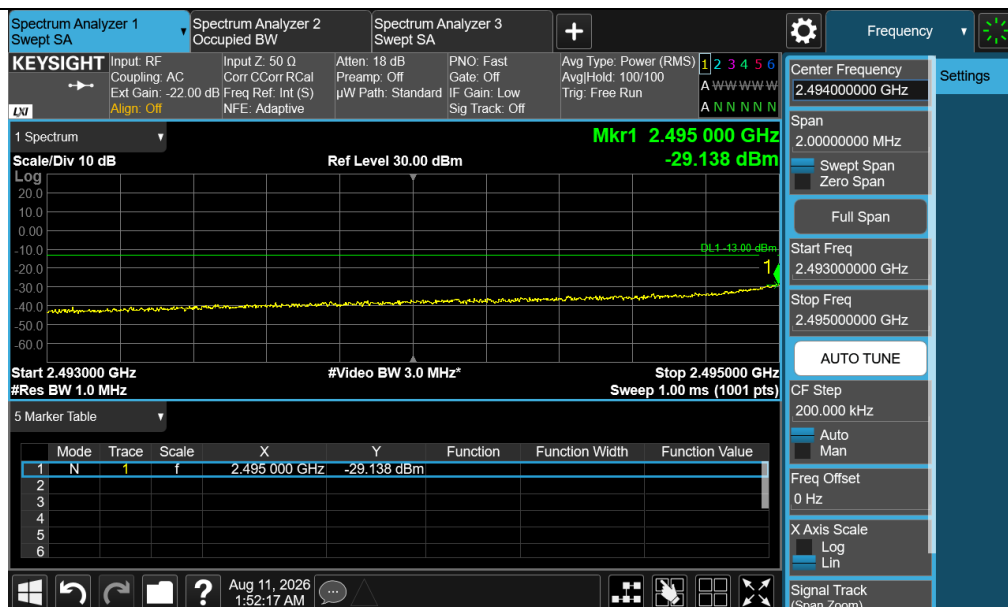
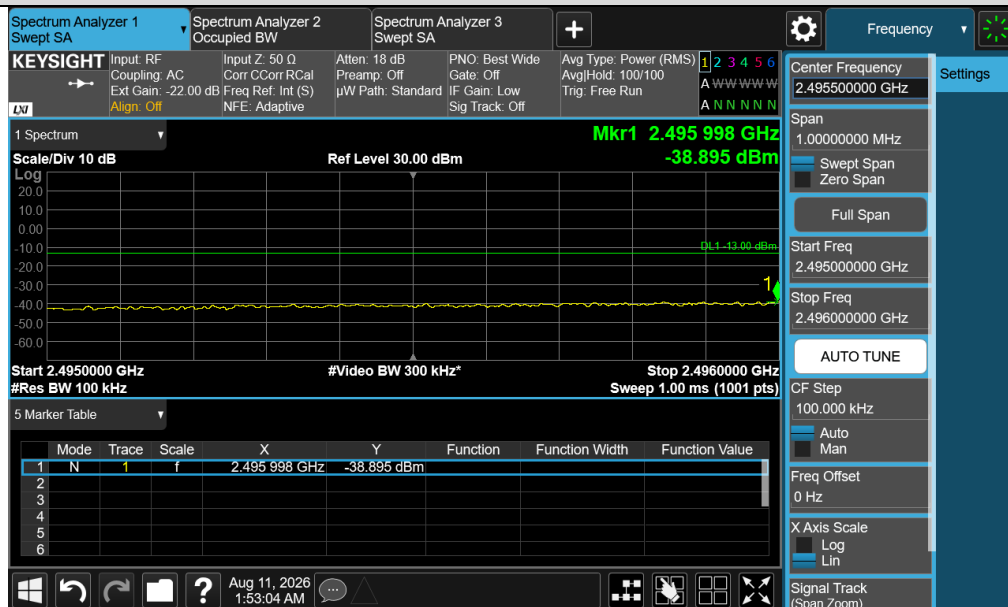


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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



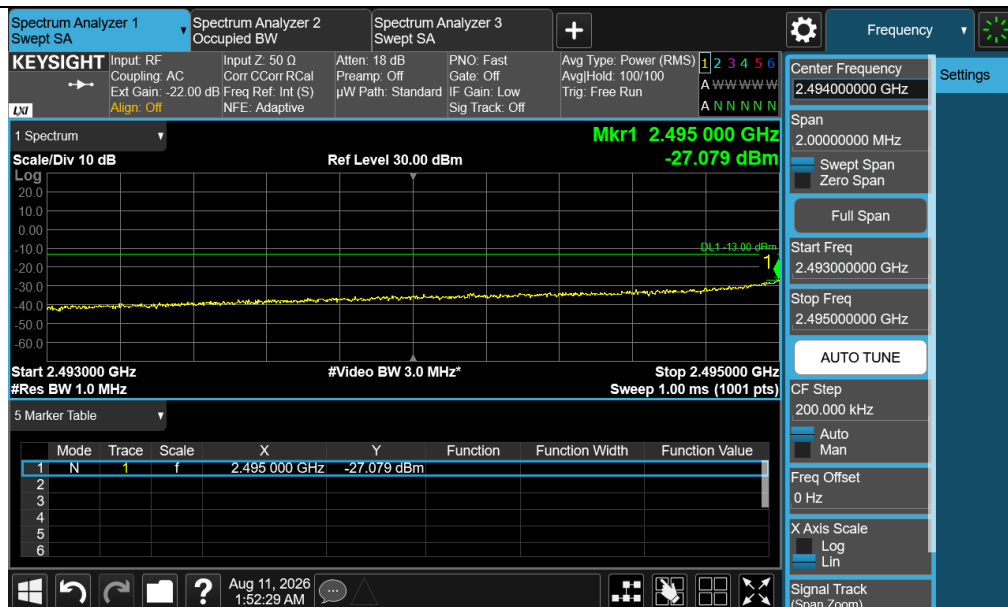
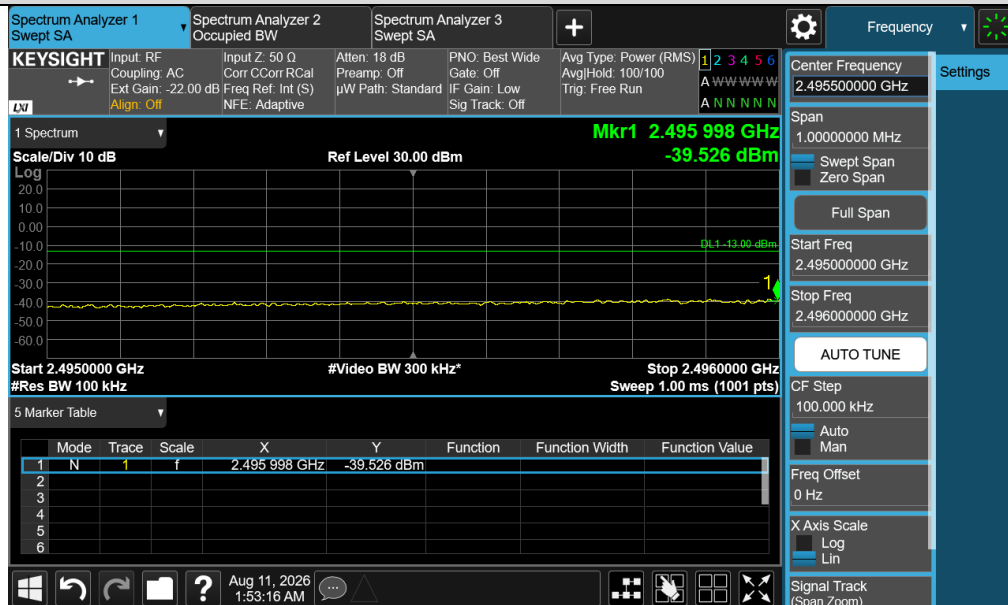
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



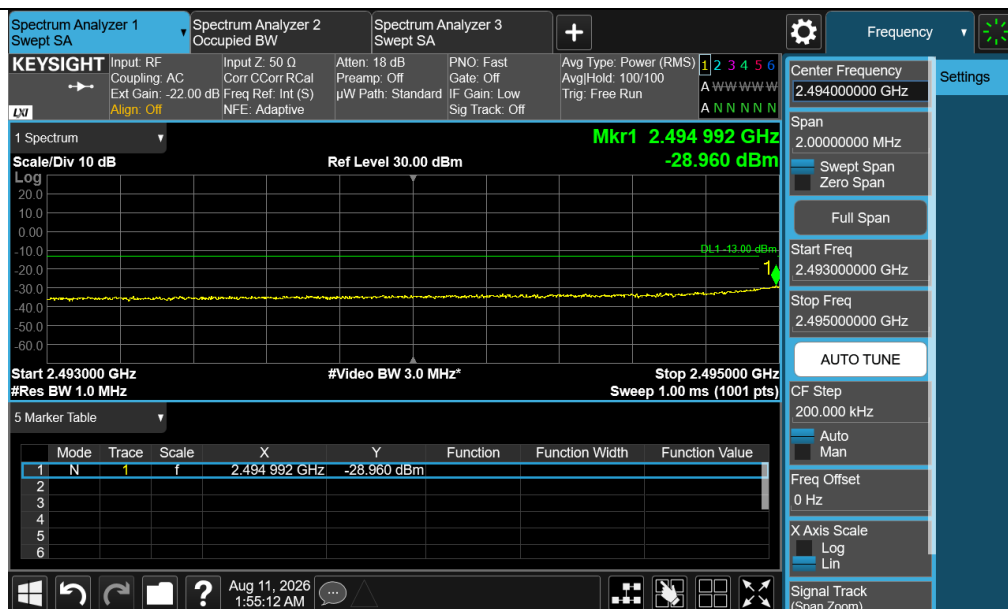
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



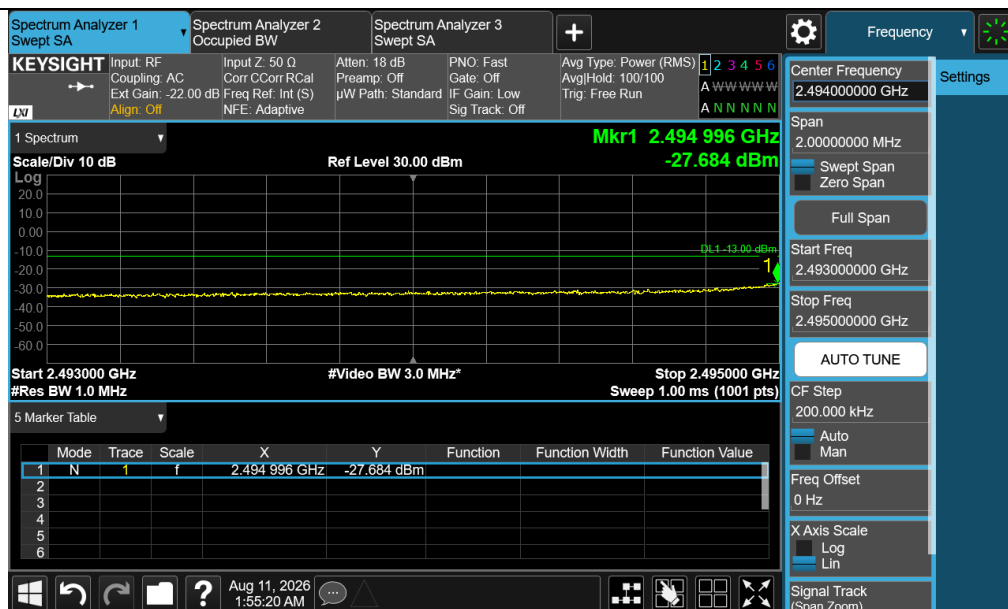
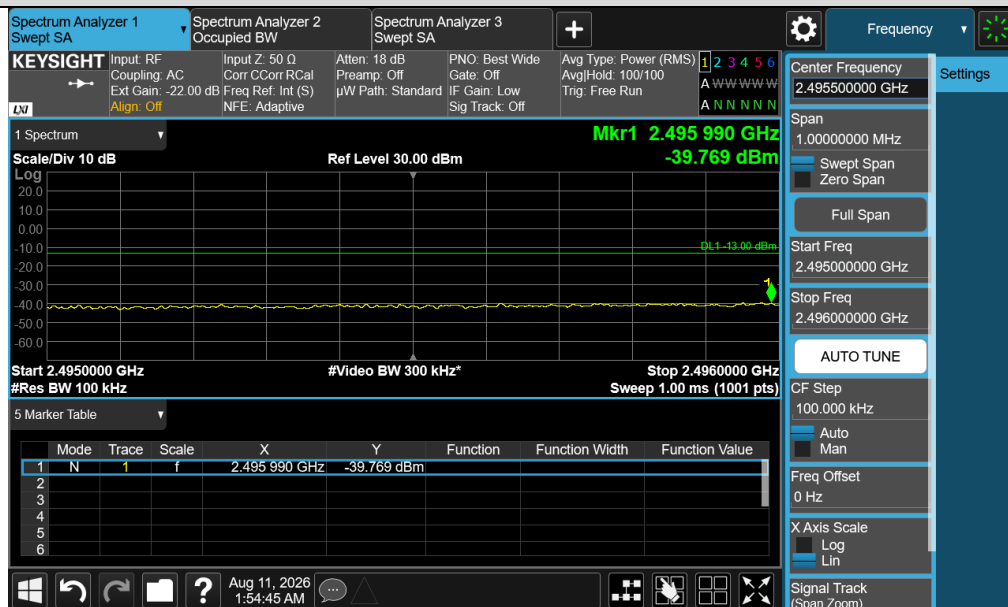
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC



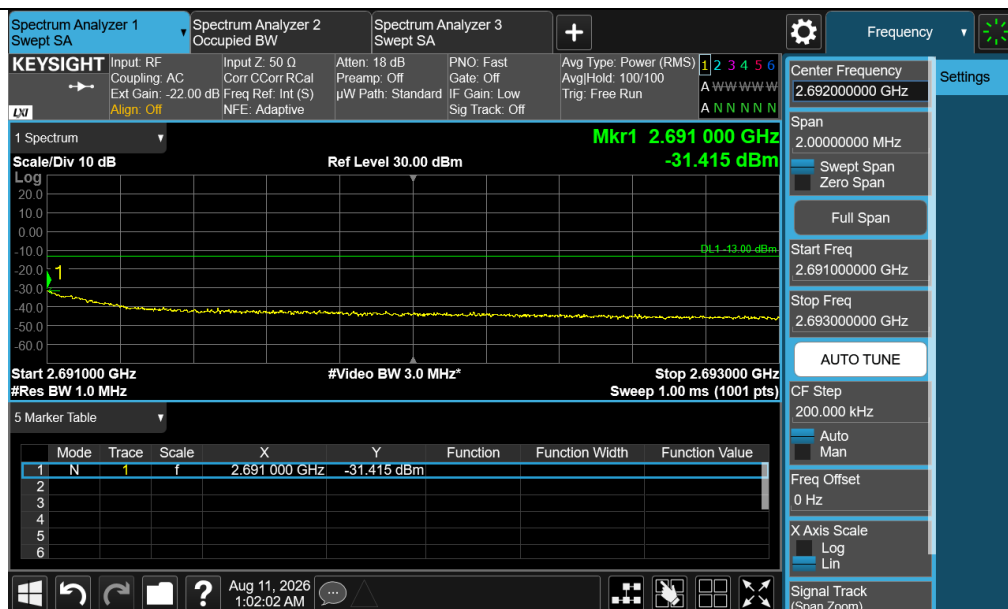
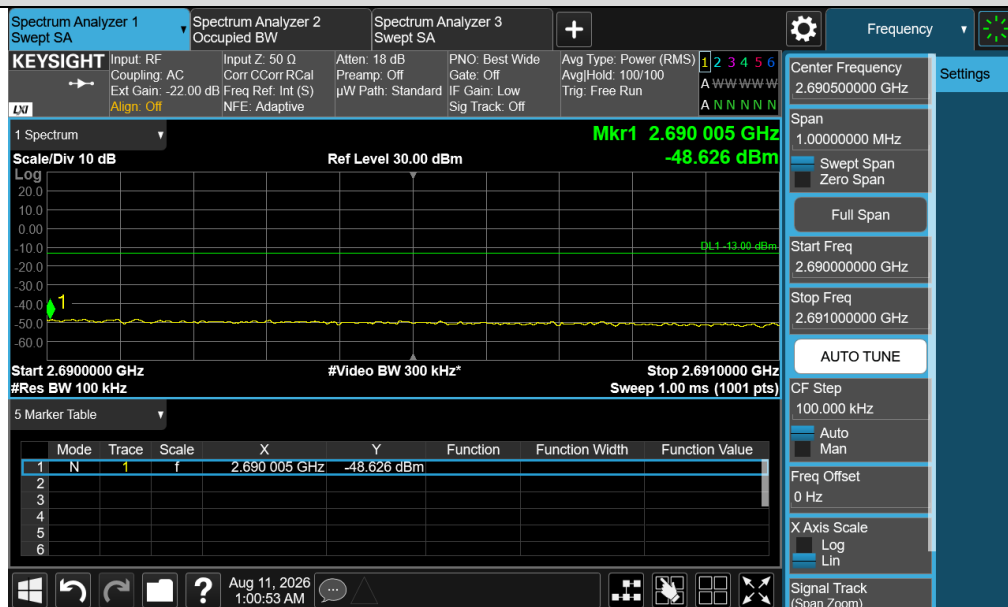
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Out-of-band/out-of-block emissions

UL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



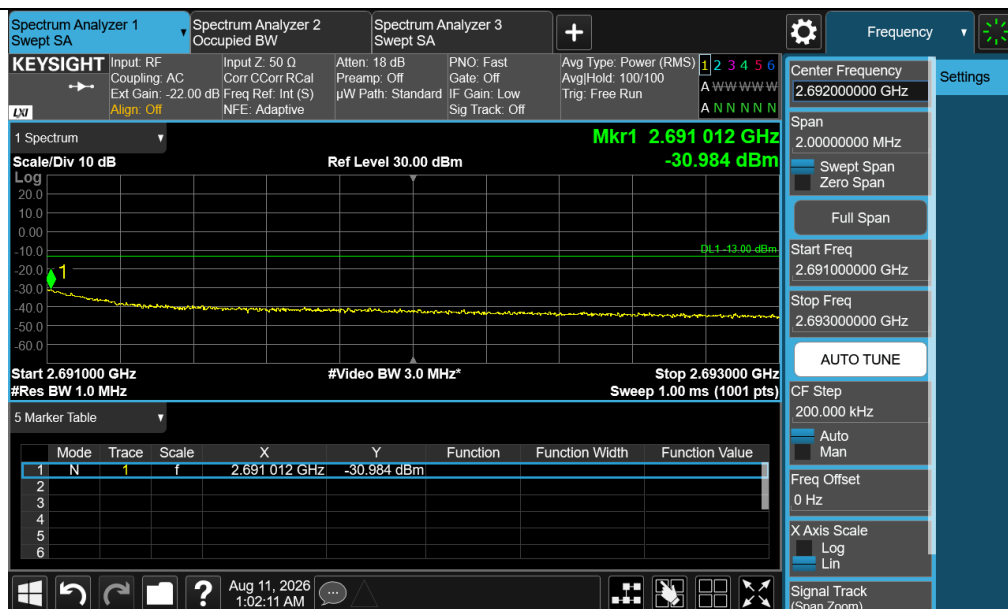
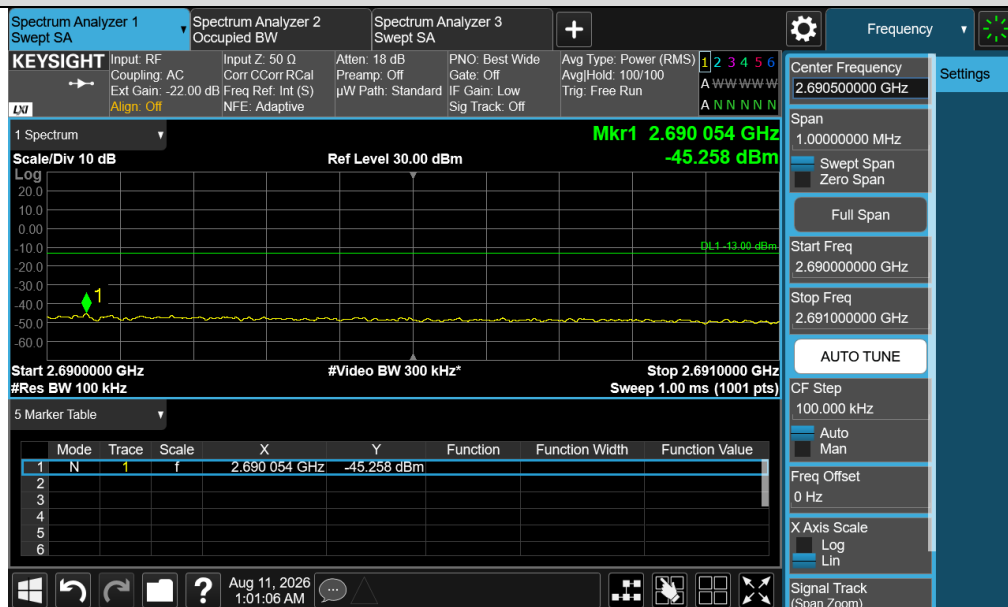
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Out-of-band/out-of-block emissions

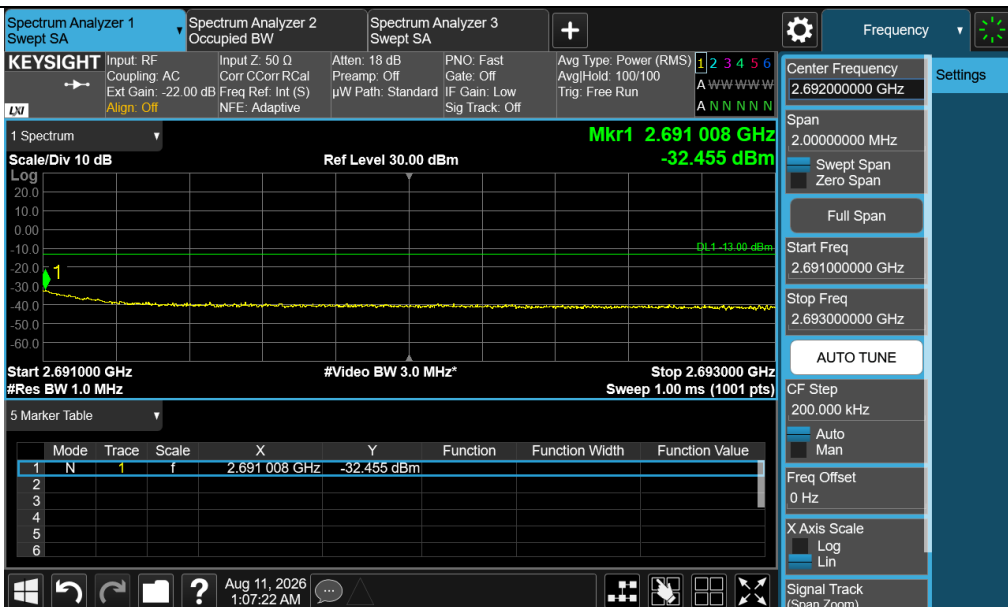
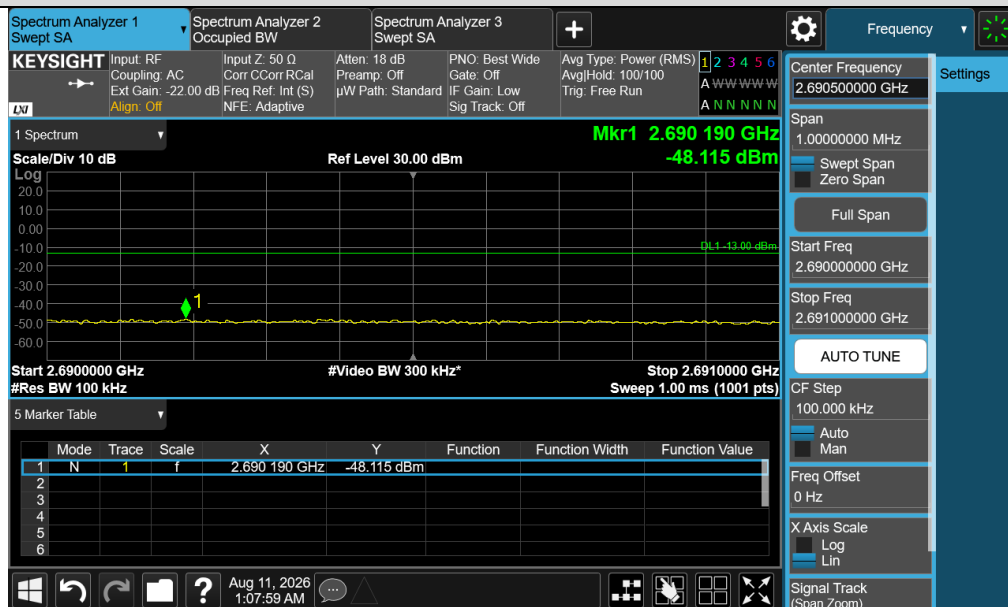
UL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



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

UL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC

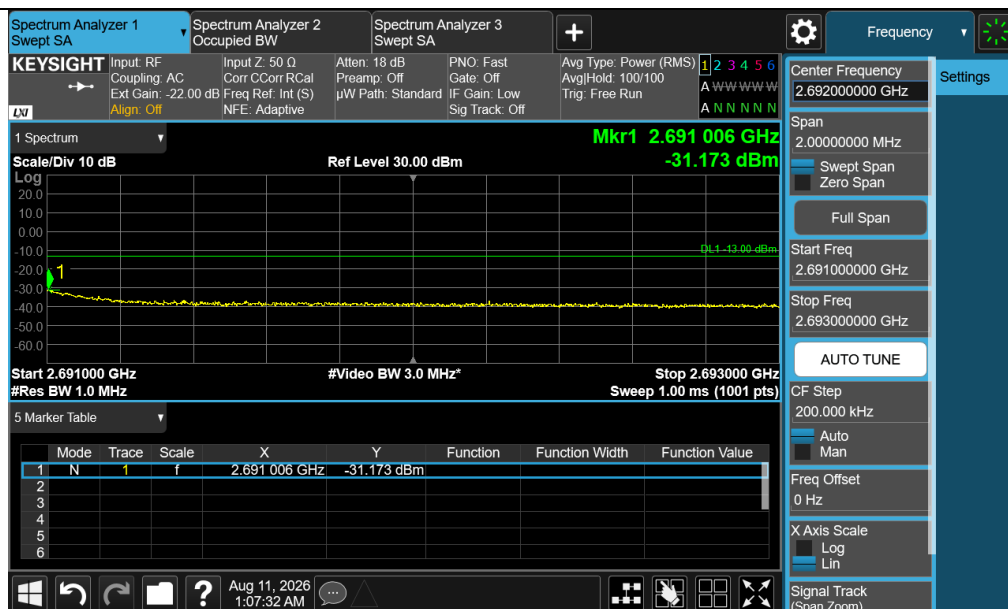
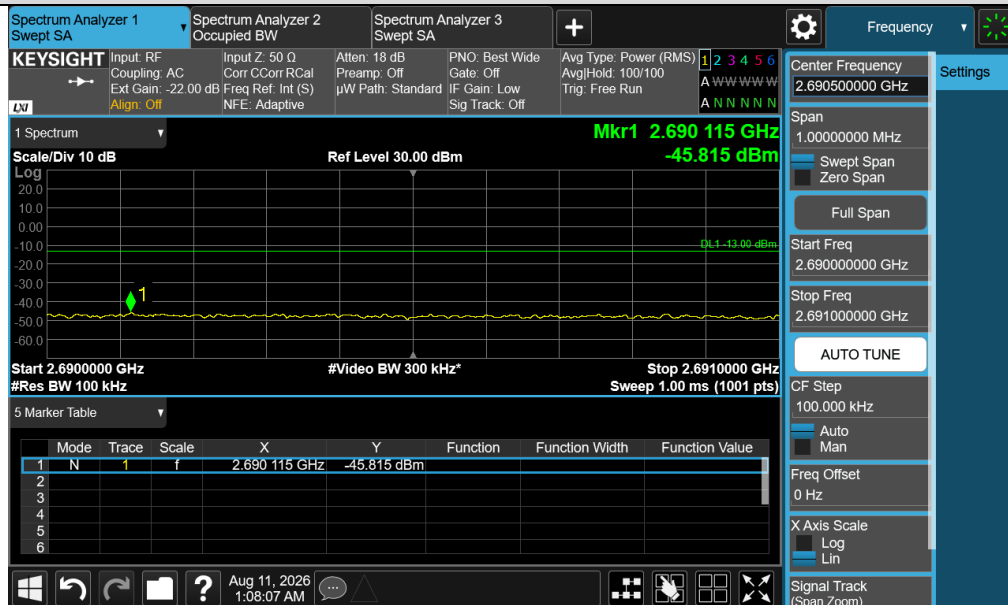


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UL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



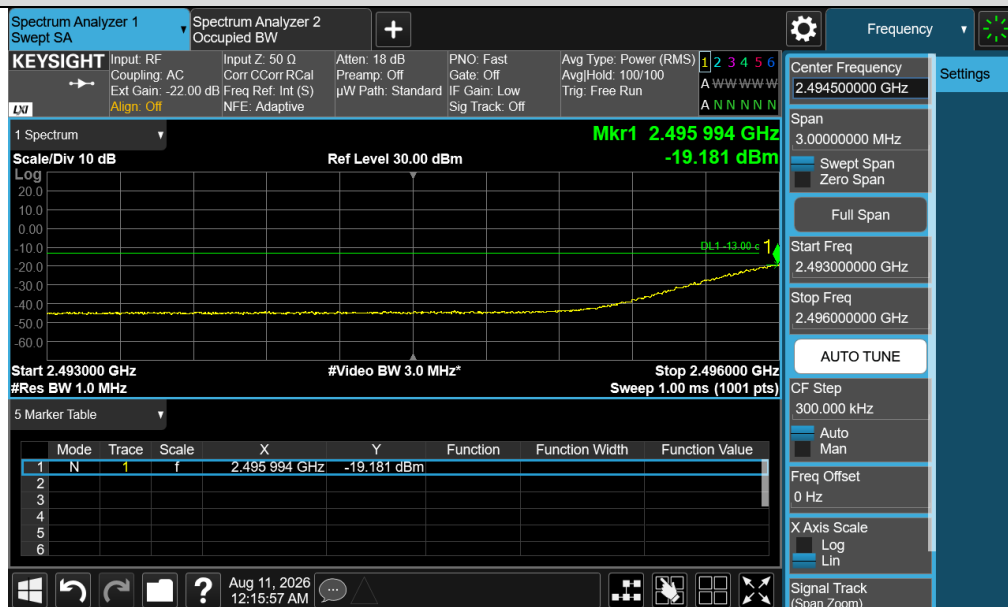
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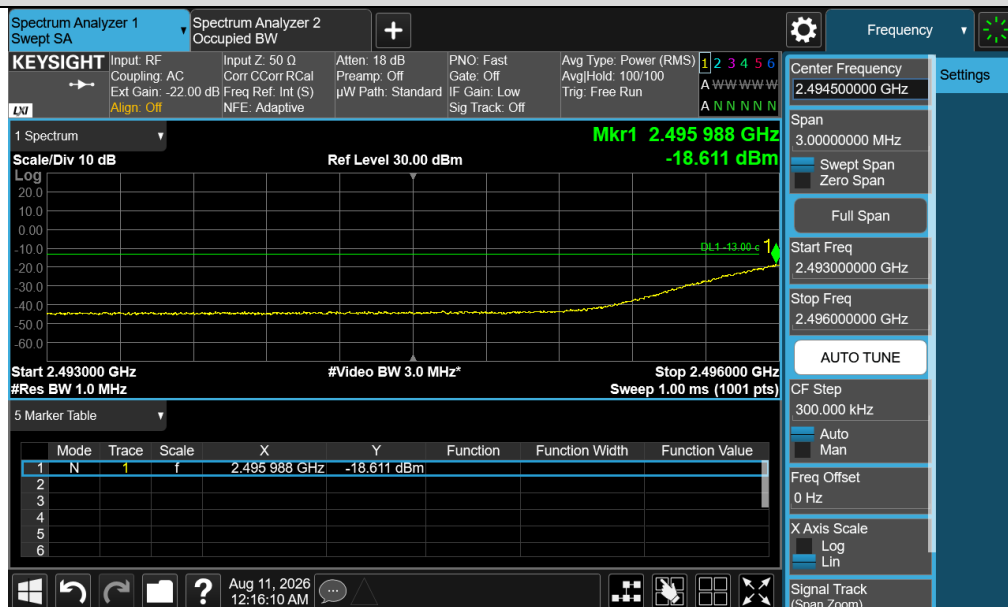
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Out-of-band/out-of-block emissions

UL_100MHz AWGN_LCH_a single test signal_Pre-AGC



UL_100MHz AWGN_LCH_a single test signal_3dB above AGC



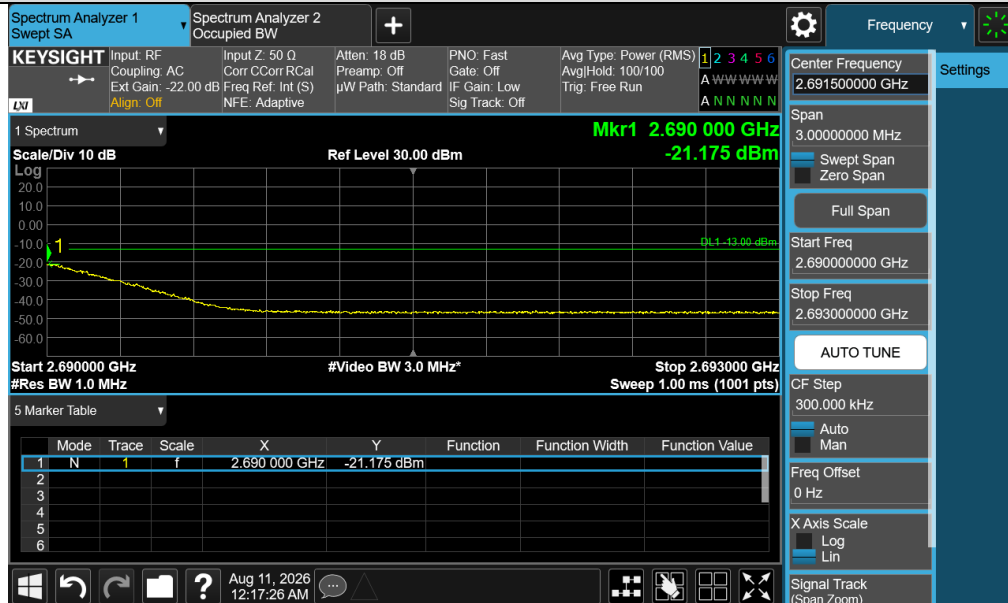
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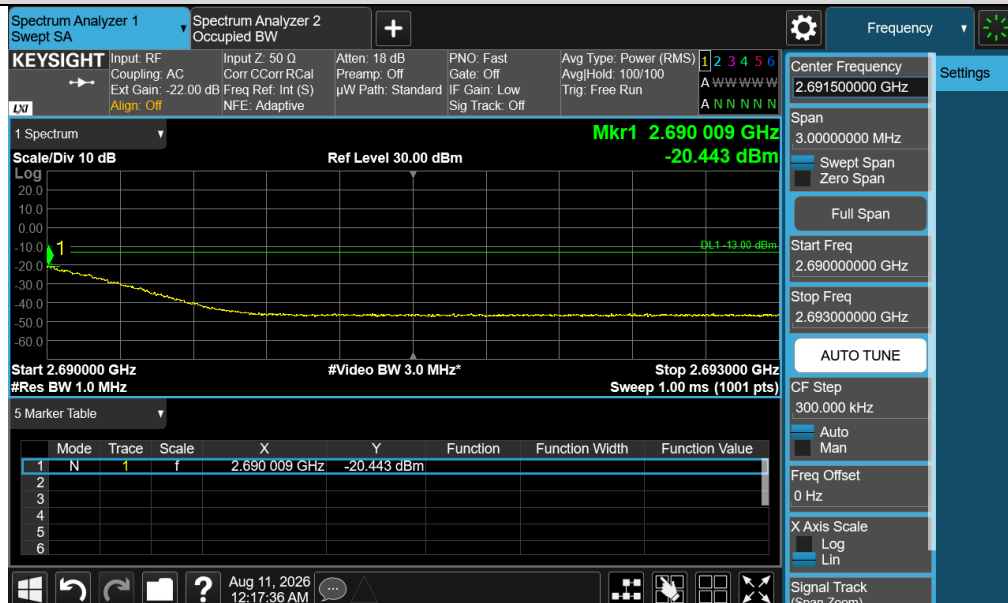
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Out-of-band/out-of-block emissions

UL_100MHz AWGN_HCH_a single test signal_Pre-AGC



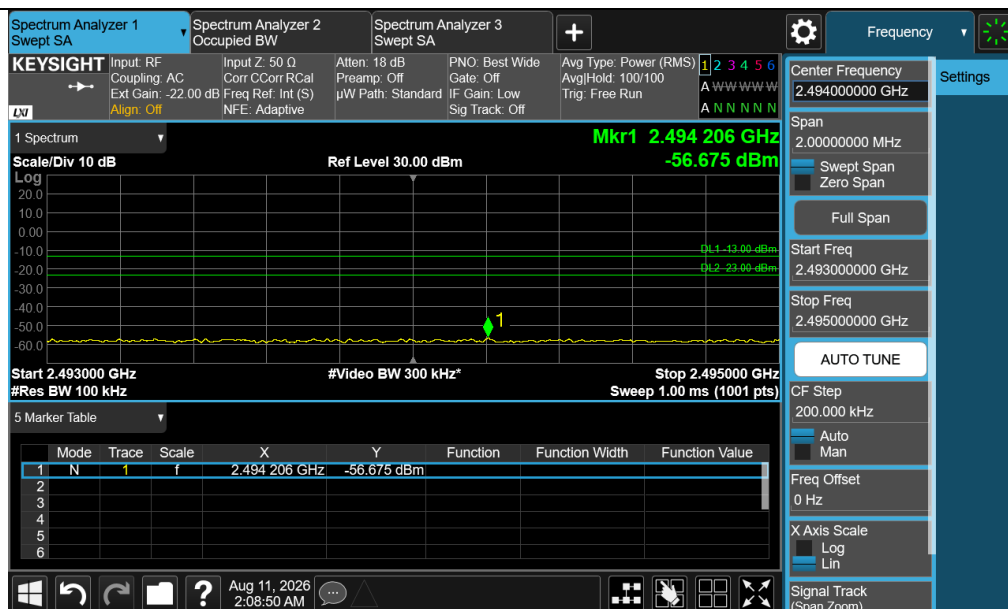
UL_100MHz AWGN_HCH_a single test signal_3dB above AGC



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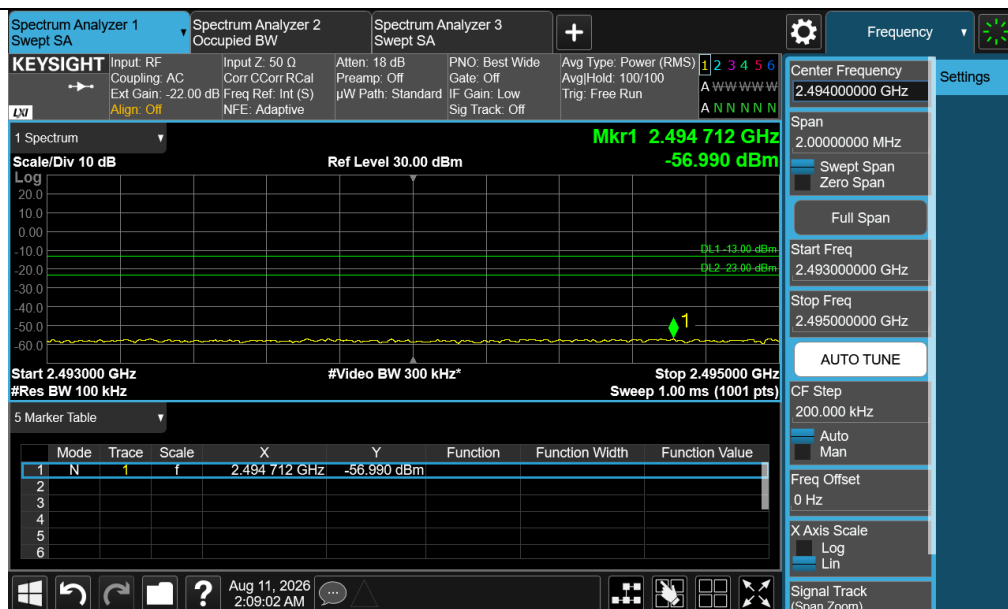
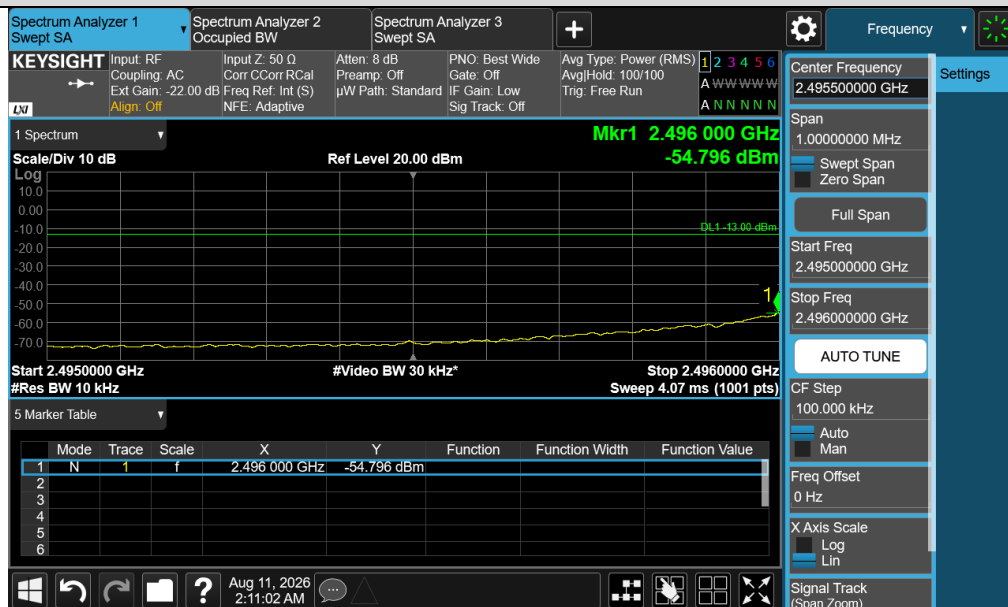
UL_GSM_LCH_a single test signal_Pre-AGC



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

UL_GSM_LCH_a single test signal_3dB above AGC



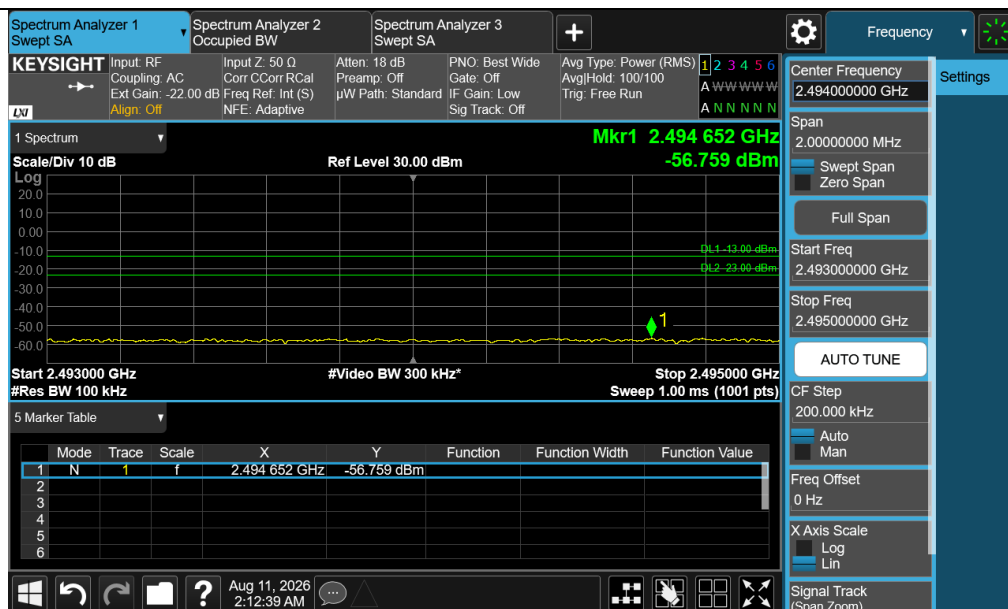
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Out-of-band/out-of-block emissions

UL_GSM_LCH_two adjacent test signals_Pre-AGC



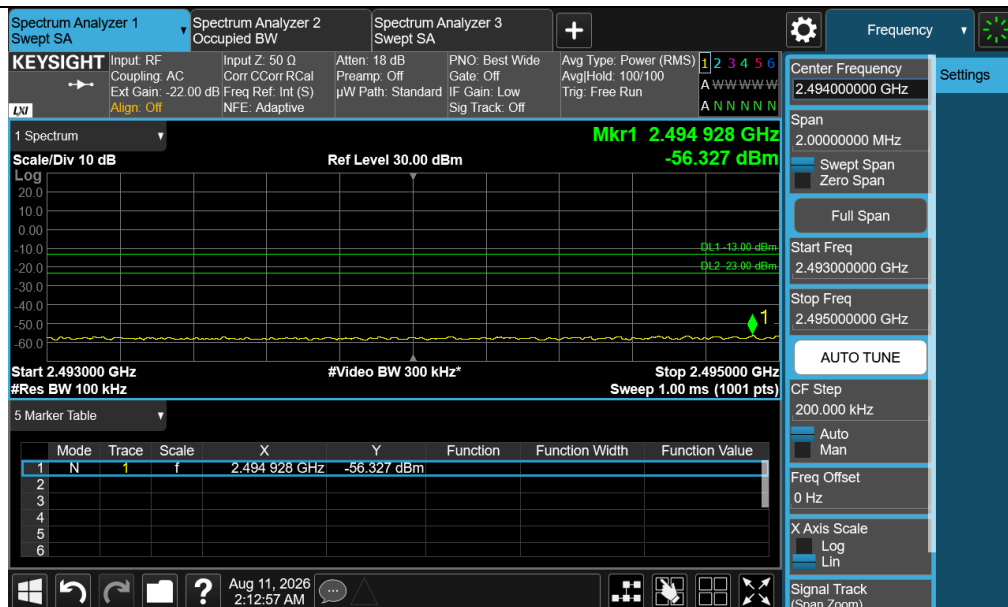
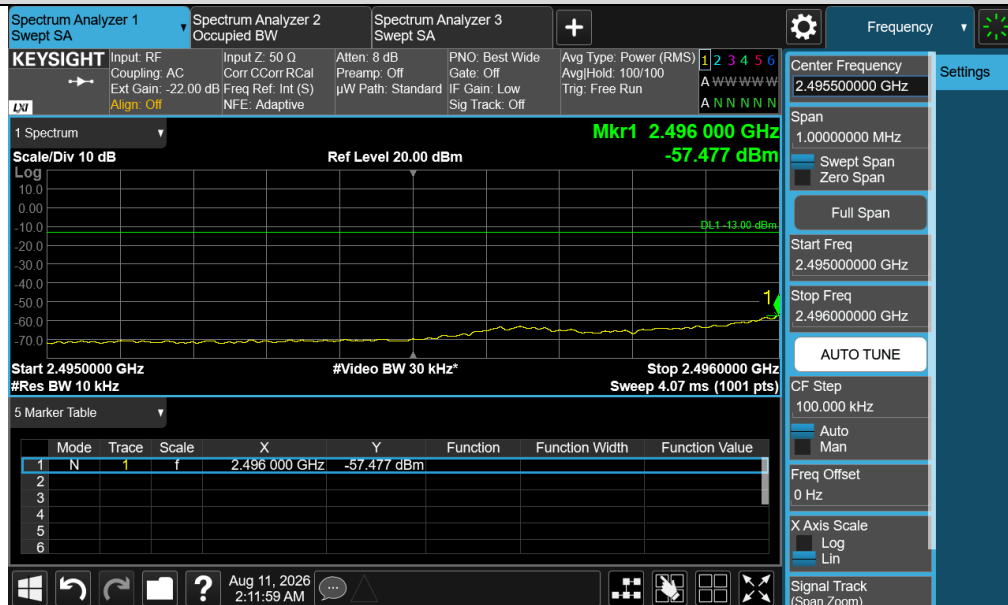
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Out-of-band/out-of-block emissions

UL_GSM_LCH_two adjacent test signals_3dB above AGC



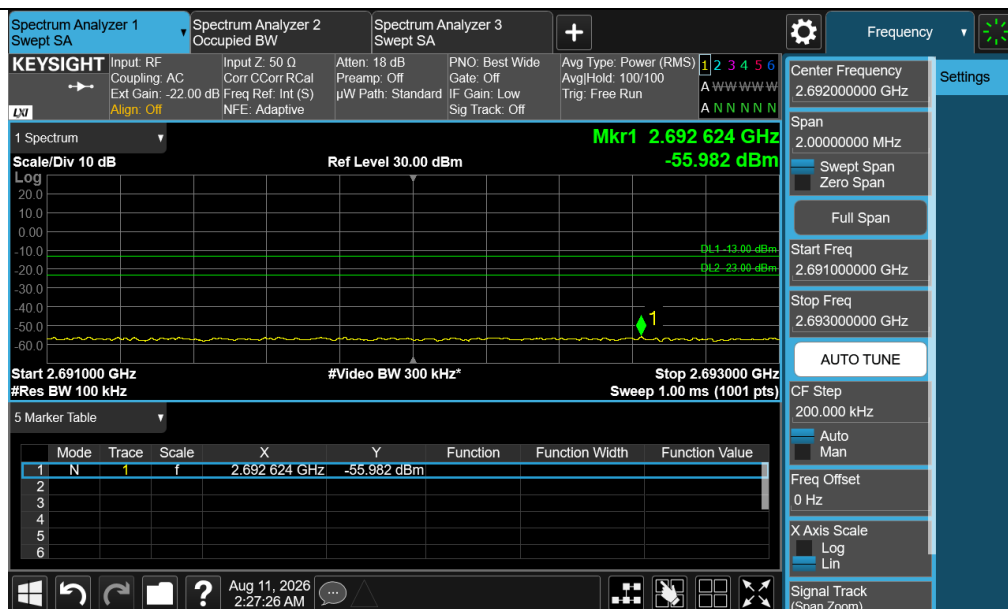
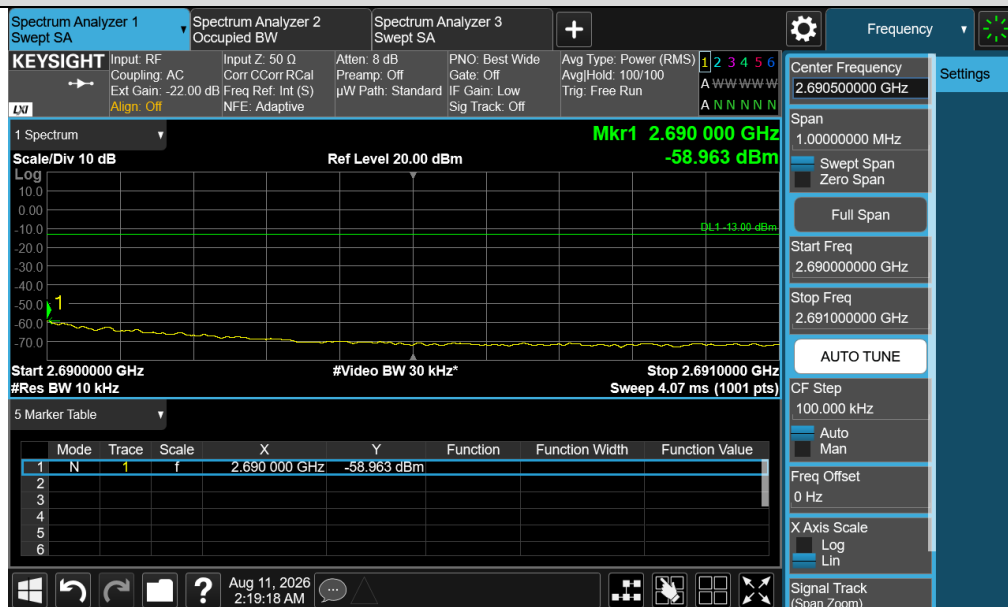
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Out-of-band/out-of-block emissions

UL_GSM_HCH_a single test signal_Pre-AGC

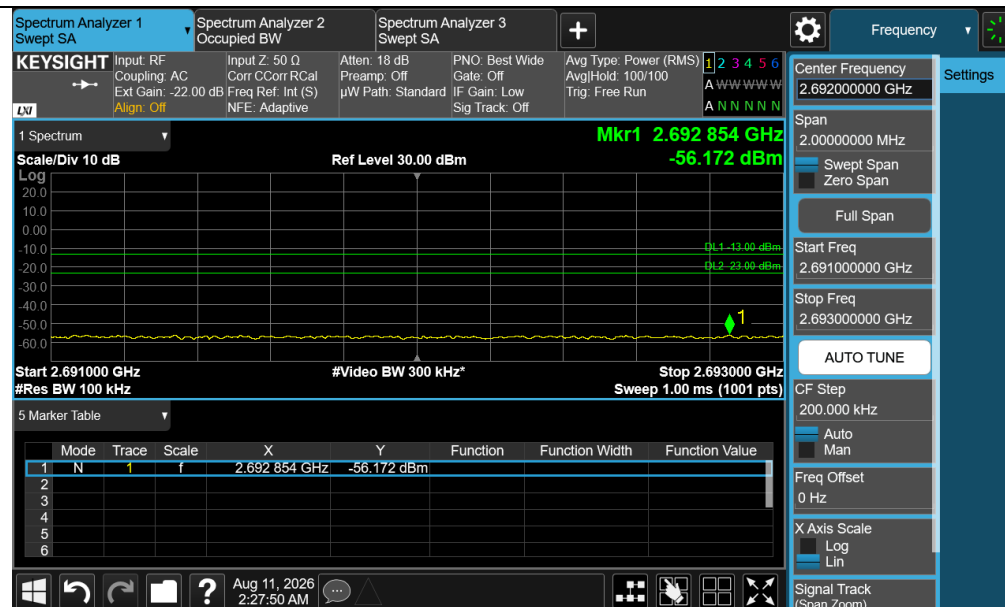
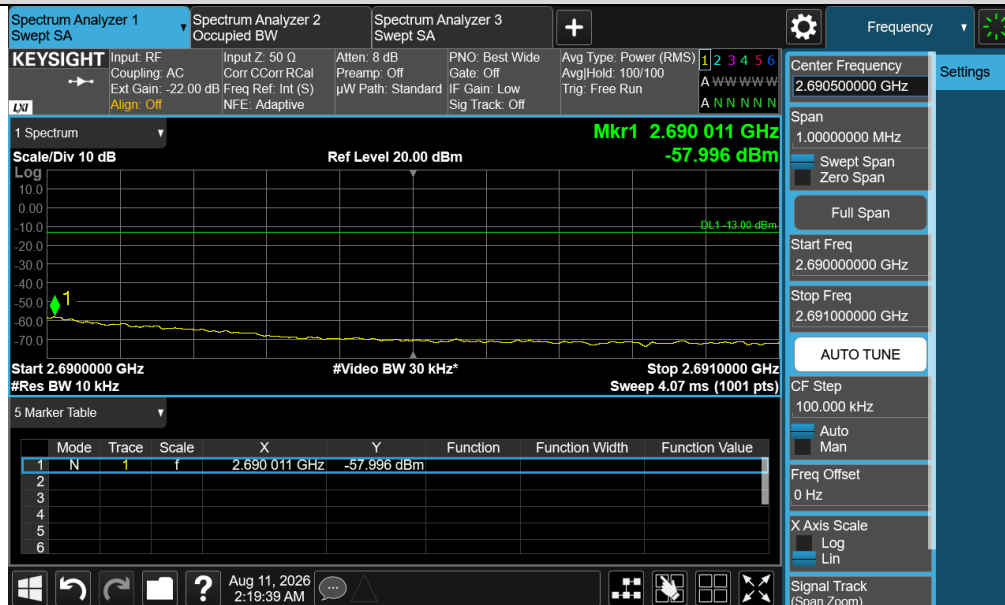


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Out-of-band/out-of-block emissions

UL_GSM_HCH_a single test signal_3dB above AGC

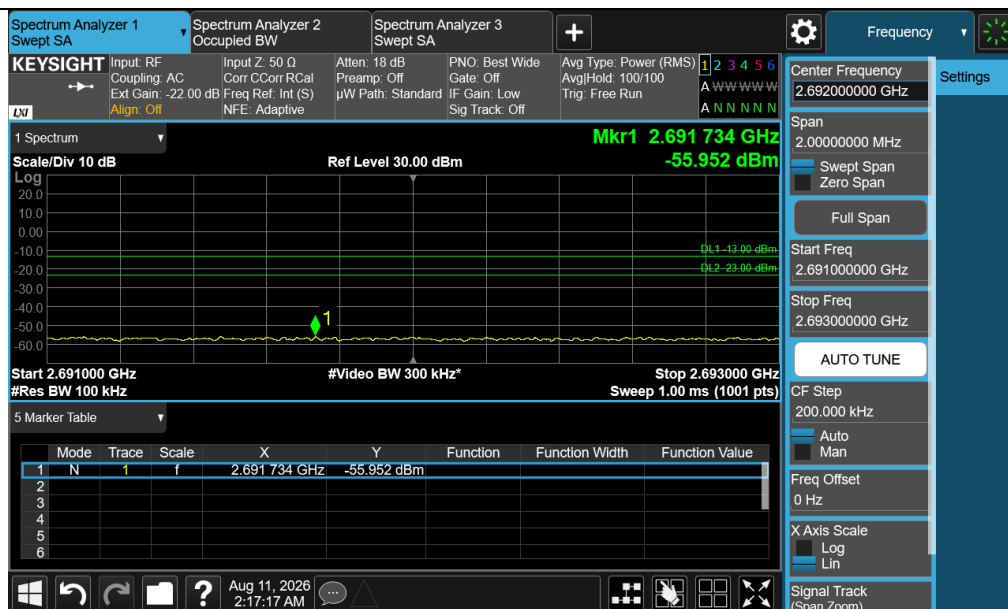
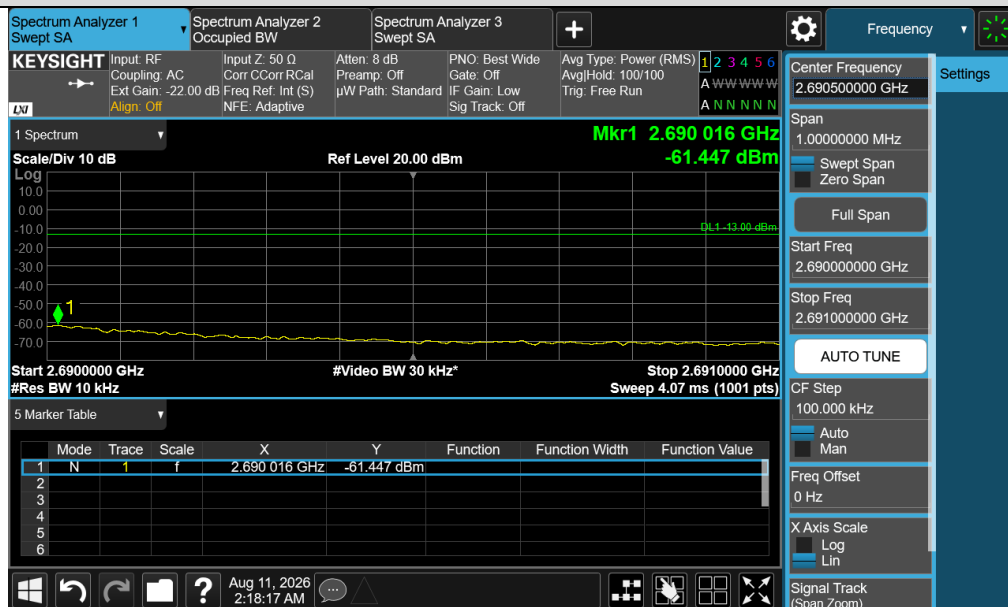


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Out-of-band/out-of-block emissions

UL_GSM_HCH_two adjacent test signals_Pre-AGC



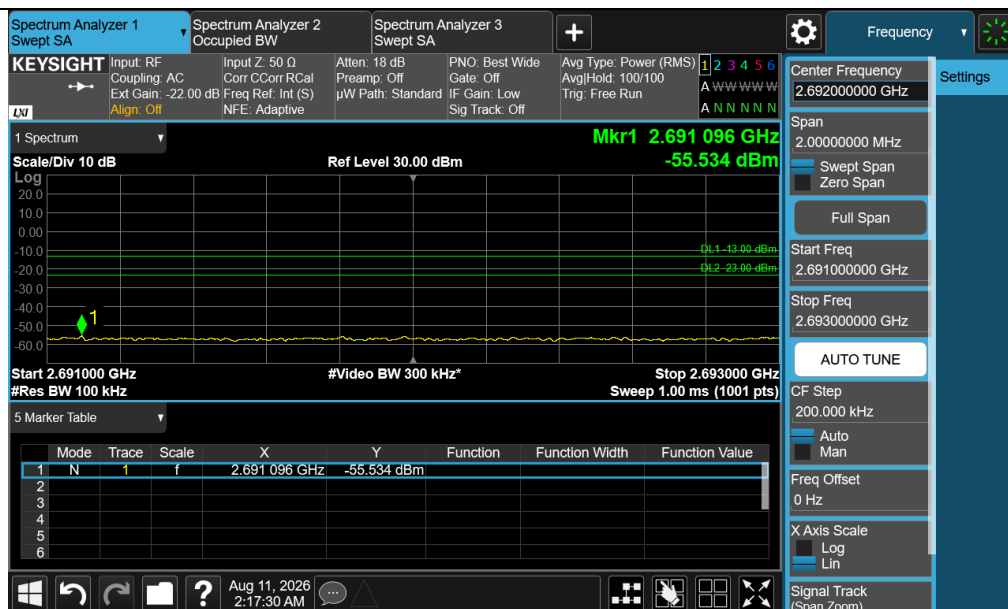
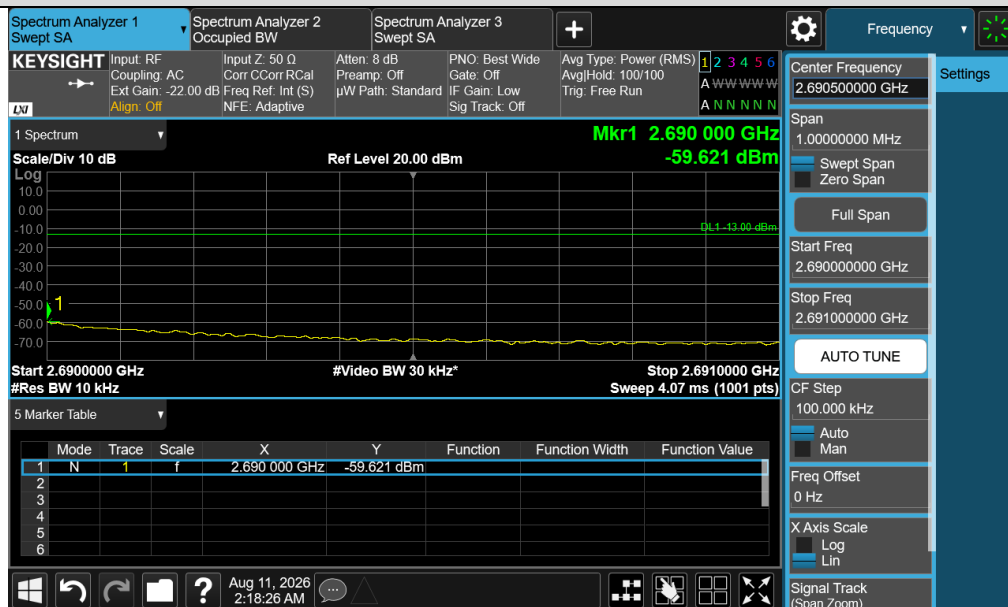
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Out-of-band/out-of-block emissions

UL_GSM_HCH_two adjacent test signals_3dB above AGC



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5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	100MHz AWGN	LCH	0.09-1000	-52.37	≤-13	PASS
			1000-2495	-15.62	≤-13	PASS
		HCH	2691-26900	-15.15	≤-13	PASS
UL	100MHz AWGN	LCH	0.09-1000	-61.80	≤-13	PASS
			1000-2495	-19.12	≤-13	PASS
		HCH	2691-26900	-16.61	≤-13	PASS

Remark:

- The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,
 $P = 33\text{dBm} = 2\text{W}$ (downlink)
 $\text{limit} = 33\text{dBm} - [43 + 10\log_{10}(2\text{W})]\text{dB} = -13\text{dBm}$
 $P = 17\text{dBm} = 0.051\text{W}$ (downlink)
 $\text{limit} = 17\text{dBm} - [43 + 10\log_{10}(0.051\text{W})]\text{dB} = -13\text{dBm}$
- All modes (LCH/MCH/HCH, with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.
- The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



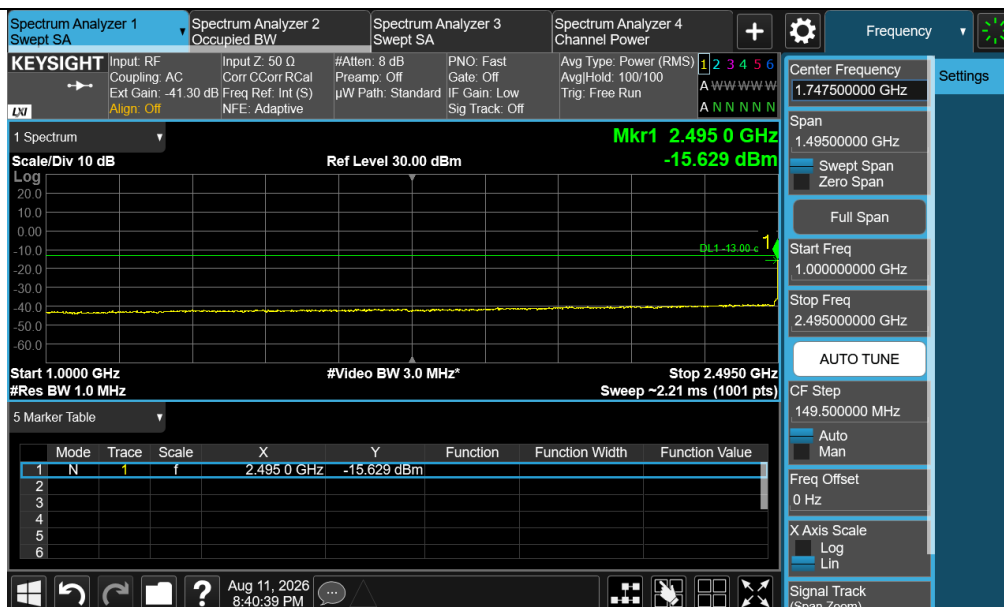
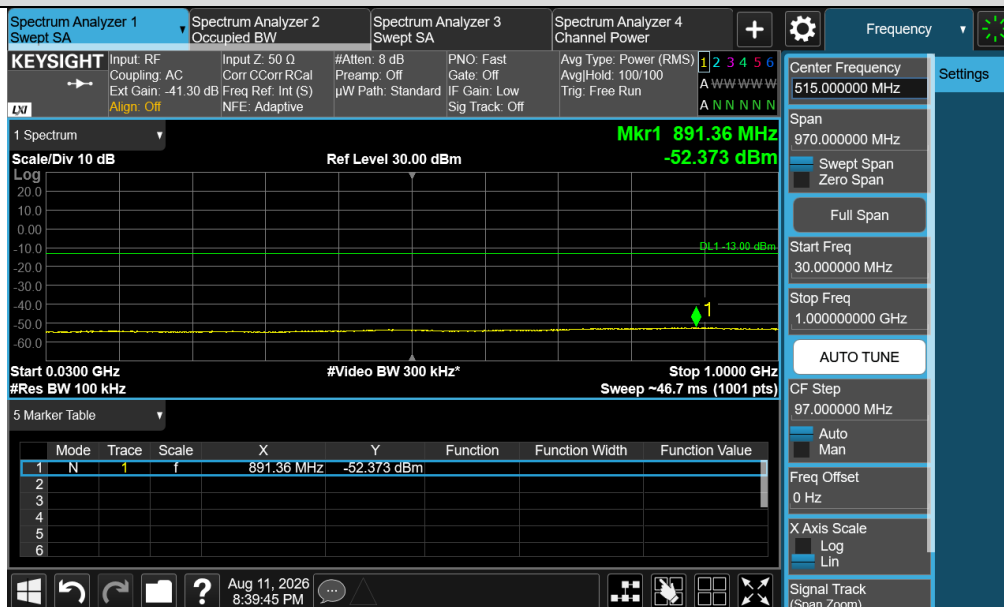
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Conducted spurious emissions

DL_100MHz AWGN_LCH_Pre-AGC

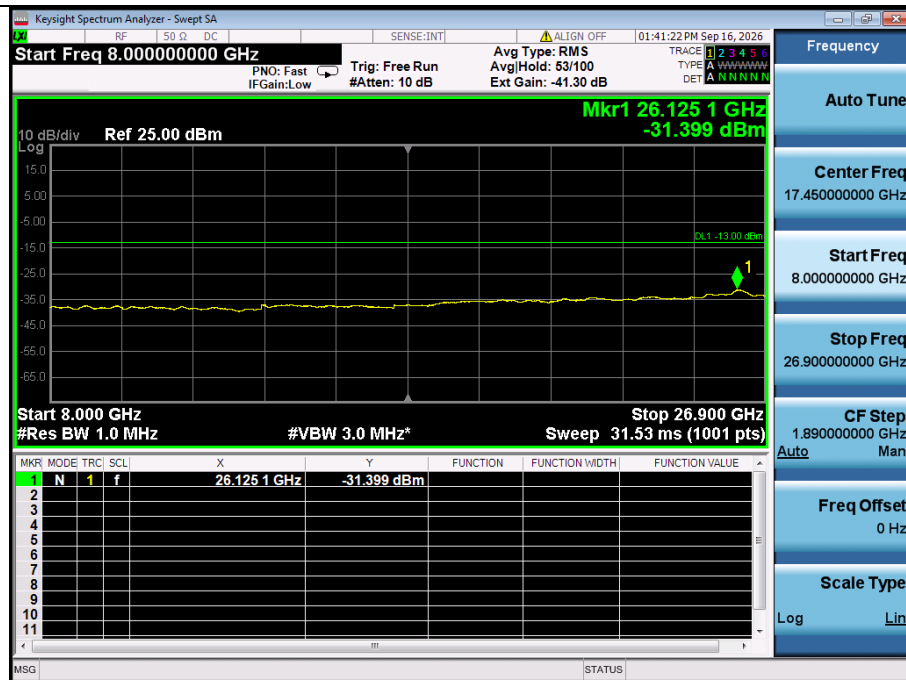
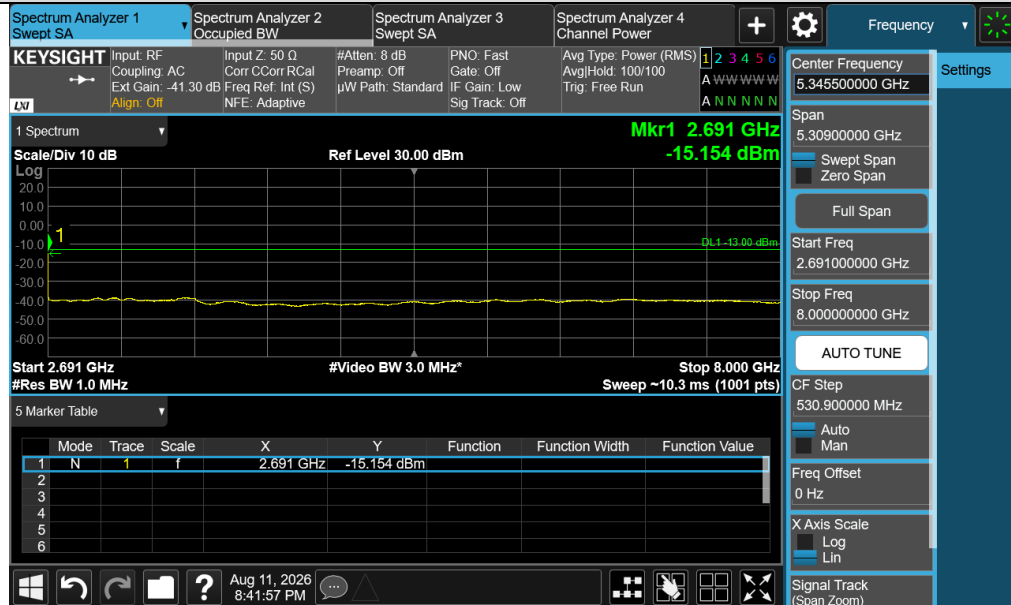


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Conducted spurious emissions

DL_100MHz AWGN_HCH_Pre-AGC



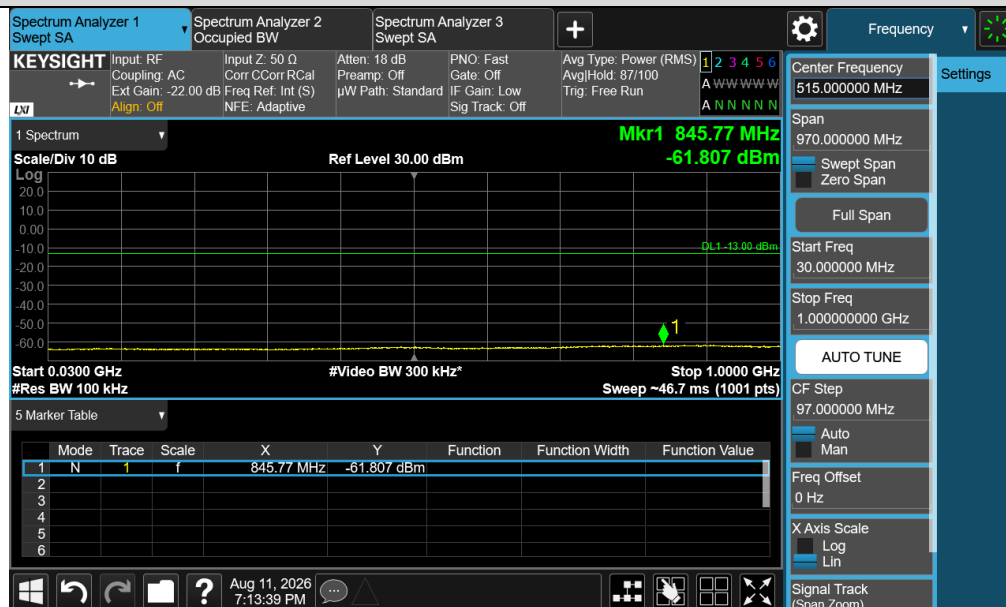
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Conducted spurious emissions

UL_100MHz AWGN_LCH_Pre-AGC



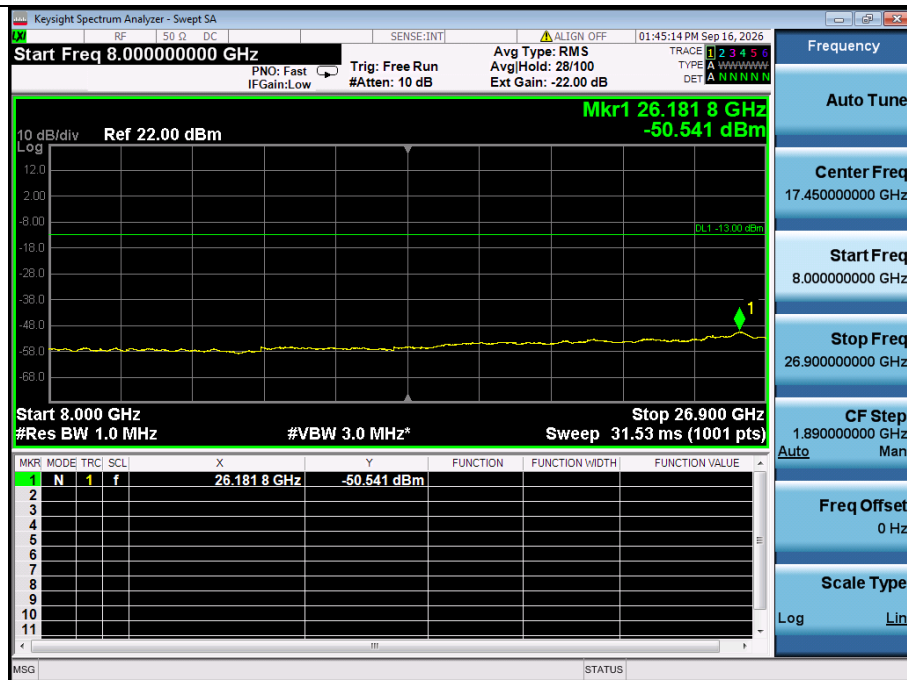
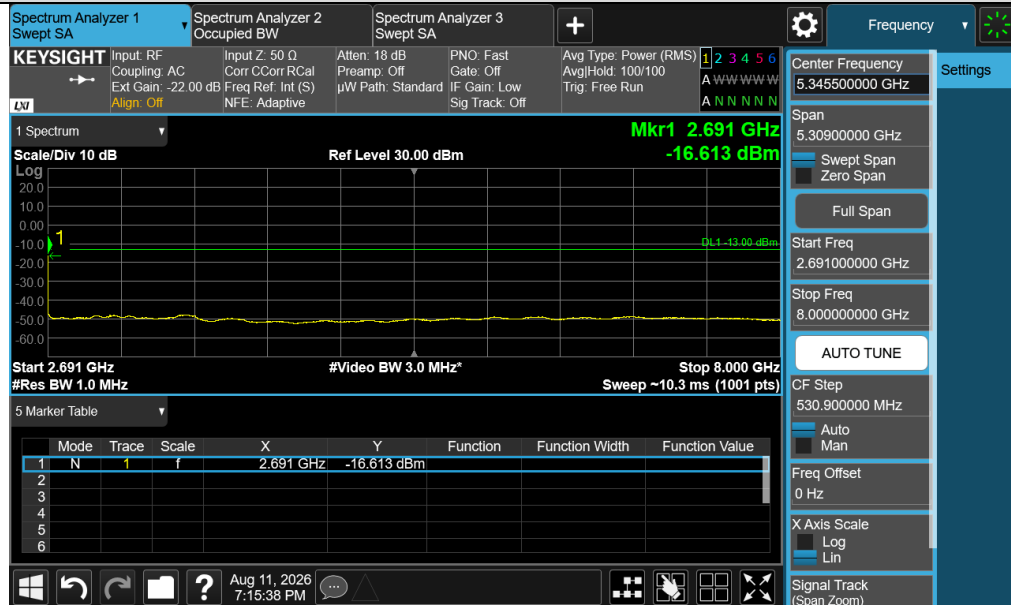
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Conducted spurious emissions

UL_100MHz AWGN_HCH_Pre-AGC



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6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	1.7	0.00066	PASS
			TN	VH	1.7	0.00066	PASS
		100MHz AWGN	TN	VL	2.1	0.00081	PASS
			TN	VH	2.1	0.00081	PASS
		GSM	TN	VL	2.2	0.00085	PASS
			TN	VH	2.2	0.00085	PASS
UL	MCH	4.1MHz AWGN	TN	VL	2.0	0.00077	PASS
			TN	VH	2.0	0.00077	PASS
		100MHz AWGN	TN	VL	2.2	0.00085	PASS
			TN	VH	2.2	0.00085	PASS
		GSM	TN	VL	2.2	0.00085	PASS
			TN	VH	2.2	0.00085	PASS



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SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260800038501

Page: 84 of 89

Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	VN	+50	1.7	0.00066	PASS
			VN	+40	1.5	0.00058	PASS
			VN	+30	1.2	0.00046	PASS
			VN	+20	1.2	0.00046	PASS
			VN	+10	1.2	0.00046	PASS
			VN	0	1.4	0.00054	PASS
			VN	-10	1.2	0.00046	PASS
			VN	-20	1.2	0.00046	PASS
			VN	-30	1.8	0.00069	PASS
	MCH	100MHz AWGN	VN	+50	1.5	0.00058	PASS
			VN	+40	1.8	0.00069	PASS
			VN	+30	1.1	0.00042	PASS
			VN	+20	1.3	0.00050	PASS
			VN	+10	1.5	0.00058	PASS
			VN	0	2.1	0.00081	PASS
			VN	-10	1.3	0.00050	PASS
			VN	-20	2.0	0.00077	PASS
			VN	-30	1.2	0.00046	PASS
	MCH	GSM	VN	+50	1.5	0.00058	PASS
			VN	+40	1.7	0.00066	PASS
			VN	+30	1.5	0.00058	PASS
			VN	+20	1.2	0.00046	PASS
			VN	+10	1.2	0.00046	PASS
			VN	0	1.2	0.00046	PASS
			VN	-10	1.4	0.00054	PASS
			VN	-20	1.2	0.00046	PASS
			VN	-30	1.2	0.00046	PASS



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Report No.: FYCR260800038501

Page: 85 of 89

Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	MCH	4.1MHz AWGN	VN	+50	1.7	0.00066	PASS
			VN	+40	1.6	0.00062	PASS
			VN	+30	1.8	0.00069	PASS
			VN	+20	1.7	0.00066	PASS
			VN	+10	1.8	0.00069	PASS
			VN	0	1.4	0.00054	PASS
			VN	-10	1.5	0.00058	PASS
			VN	-20	1.2	0.00046	PASS
			VN	-30	1.8	0.00069	PASS
	MCH	100MHz AWGN	VN	+50	2.1	0.00081	PASS
			VN	+40	1.1	0.00042	PASS
			VN	+30	1.6	0.00062	PASS
			VN	+20	1.7	0.00066	PASS
			VN	+10	1.9	0.00073	PASS
			VN	0	1.2	0.00046	PASS
			VN	-10	1.2	0.00046	PASS
			VN	-20	2.0	0.00077	PASS
			VN	-30	1.4	0.00054	PASS
	MCH	GSM	VN	+50	2.1	0.00081	PASS
			VN	+40	1.7	0.00066	PASS
			VN	+30	1.6	0.00062	PASS
			VN	+20	1.8	0.00069	PASS
			VN	+10	1.7	0.00066	PASS
			VN	0	1.8	0.00069	PASS
			VN	-10	1.4	0.00054	PASS
			VN	-20	1.5	0.00058	PASS
			VN	-30	1.2	0.00046	PASS



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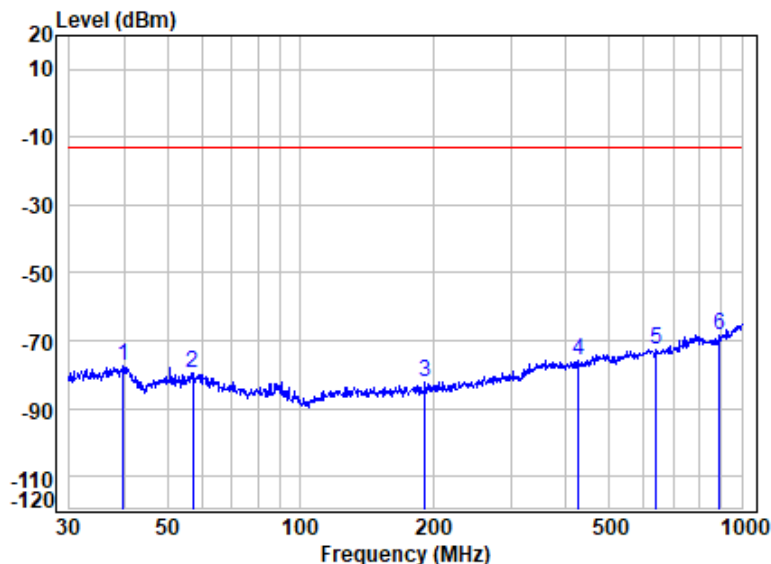
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7 Radiated Spurious emissions (below 1GHz)

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



Condition: 3m HORIZONTAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	39.71	-0.26	-77.33	-77.59	-13.00	-64.59 peak	0.00
2	56.99	-2.89	-76.48	-79.37	-13.00	-66.37 peak	0.00
3	191.75	-7.17	-74.88	-82.05	-13.00	-69.05 peak	0.00
4	426.52	-0.69	-75.11	-75.80	-13.00	-62.80 peak	0.00
5	638.37	2.69	-75.22	-72.53	-13.00	-59.53 peak	0.00
6	887.61	7.45	-75.96	-68.51	-13.00	-55.51 peak	0.00

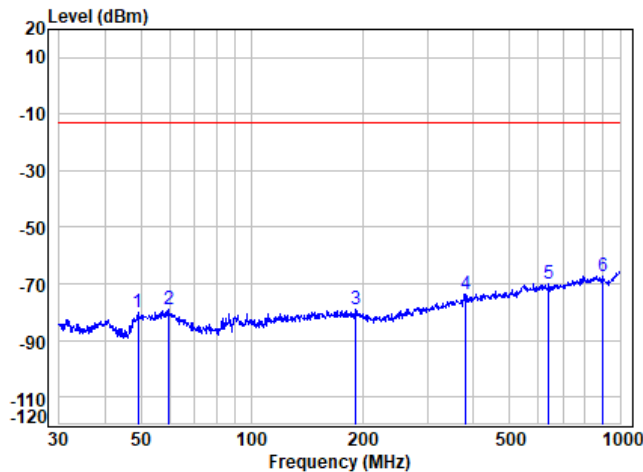


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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



Condition:3m VERTICAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	49.01	-4.15	-76.12	-80.27	-13.00	-67.27 peak	0.00
2	59.23	-2.83	-76.23	-79.06	-13.00	-66.06 peak	0.00
3	191.07	-3.53	-75.73	-79.26	-13.00	-66.26 peak	0.00
4	381.25	1.18	-74.72	-73.54	-13.00	-60.54 peak	0.00
5	638.37	4.51	-74.47	-69.96	-13.00	-56.96 peak	0.00
6	893.86	8.30	-75.80	-67.50	-13.00	-54.50 peak	0.00

Remark:

Pre-test was performed for all modes (DL/UL, 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.



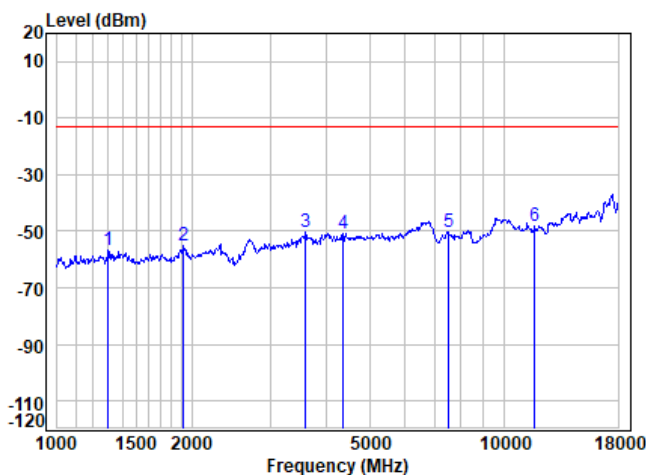
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8 Radiated Spurious emissions (above 1GHz)

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Condition:3m HORIZONTAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
		dB	dBm	dBm	dBm	dB	
1	1297.10	2.03	-58.65	-56.62	-13.00	-43.62 peak	0.00
2	1916.18	4.52	-59.49	-54.97	-13.00	-41.97 peak	0.00
3	3598.20	12.02	-62.50	-50.48	-13.00	-37.48 peak	0.00
4	4354.45	11.10	-62.14	-51.04	-13.00	-38.04 peak	0.00
5	7497.65	12.46	-62.64	-50.18	-13.00	-37.18 peak	0.00
6	11735.25	14.67	-63.02	-48.35	-13.00	-35.35 peak	0.00

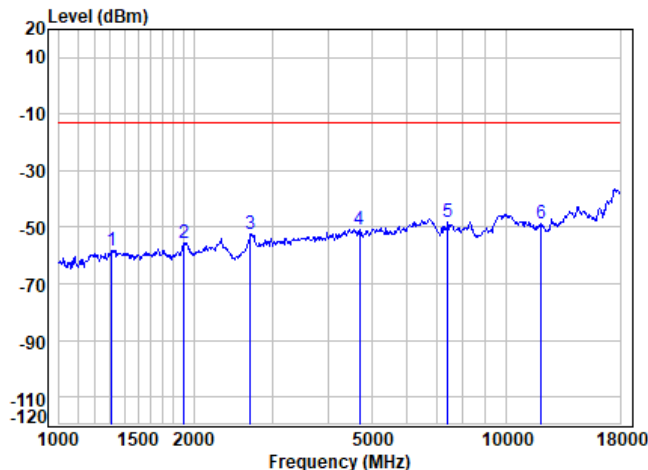


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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Condition: 3m VERTICAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	1312.19	1.73	-60.09	-58.36	-13.00	-45.36 peak	0.00
2	1899.64	5.03	-60.49	-55.46	-13.00	-42.46 peak	0.00
3	2679.46	6.63	-58.96	-52.33	-13.00	-39.33 peak	0.00
4	4694.30	11.61	-62.17	-50.56	-13.00	-37.56 peak	0.00
5	7411.46	13.38	-61.76	-48.38	-13.00	-35.38 peak	0.00
6	11940.54	13.78	-62.69	-48.91	-13.00	-35.91 peak	0.00

Remark:

Pre-test was performed for all modes (DL/UL, 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 above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

- End of the Report -



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