

Appendix E: Conducted Spurious Emission

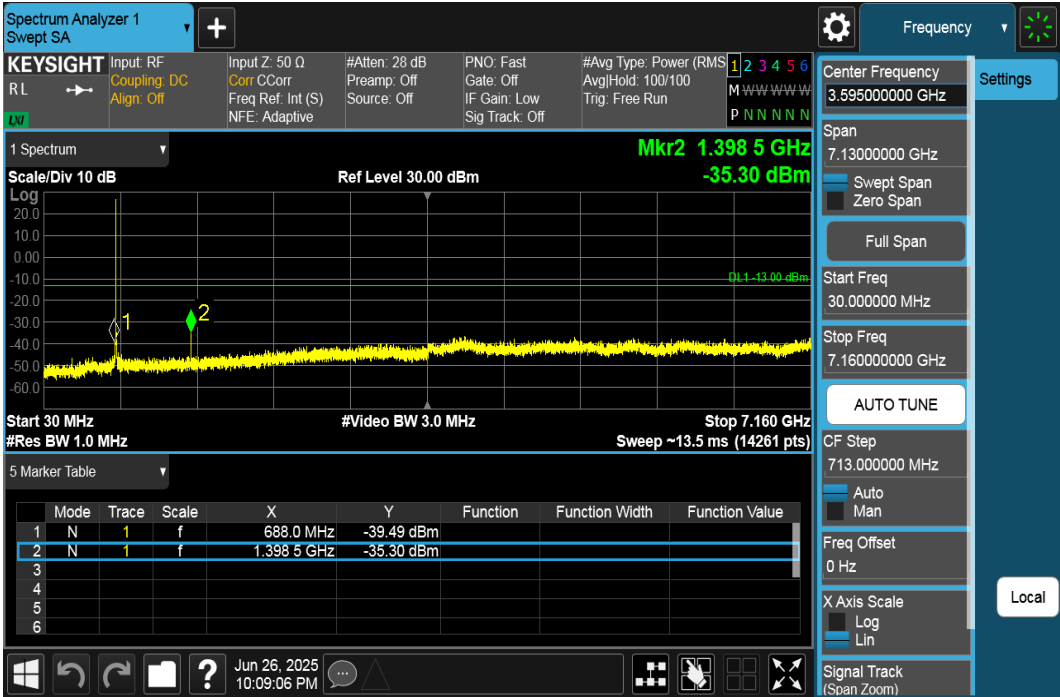
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Start Freq (MHz)	Stop Freq (MHz)	Result (dBm)	Verdict
Band12	1.4MHz	699.7	QPSK	1	0	Low	30	7160	-35.30	PASS
Band12	1.4MHz	699.7	QPSK	6	0	Low	30	7160	-36.57	PASS
Band12	1.4MHz	699.7	16QAM	1	0	Low	30	7160	-36.00	PASS
Band12	1.4MHz	699.7	16QAM	5	0	Low	30	7160	-36.90	PASS
Band12	1.4MHz	707.5	QPSK	1	0	Middle	30	7160	-35.28	PASS
Band12	1.4MHz	707.5	QPSK	6	0	Middle	30	7160	-36.49	PASS
Band12	1.4MHz	707.5	16QAM	1	0	Middle	30	7160	-36.00	PASS
Band12	1.4MHz	707.5	16QAM	5	0	Middle	30	7160	-37.06	PASS
Band12	1.4MHz	715.3	QPSK	1	0	High	30	7160	-34.94	PASS
Band12	1.4MHz	715.3	QPSK	6	0	High	30	7160	-36.28	PASS
Band12	1.4MHz	715.3	16QAM	1	0	High	30	7160	-36.71	PASS
Band12	1.4MHz	715.3	16QAM	5	0	High	30	7160	-37.42	PASS
Band12	3MHz	700.5	QPSK	1	0	Low	30	7160	-36.08	PASS
Band12	3MHz	700.5	QPSK	6	0	Low	30	7160	-37.05	PASS
Band12	3MHz	700.5	16QAM	1	0	Low	30	7160	-35.55	PASS
Band12	3MHz	700.5	16QAM	5	0	Low	30	7160	-36.34	PASS
Band12	3MHz	707.5	QPSK	1	0	Middle	30	7160	-35.71	PASS
Band12	3MHz	707.5	QPSK	6	0	Middle	30	7160	-35.91	PASS
Band12	3MHz	707.5	16QAM	1	0	Middle	30	7160	-36.45	PASS
Band12	3MHz	707.5	16QAM	5	0	Middle	30	7160	-36.89	PASS
Band12	3MHz	714.5	QPSK	1	0	High	30	7160	-37.01	PASS
Band12	3MHz	714.5	QPSK	6	0	High	30	7160	-36.60	PASS
Band12	3MHz	714.5	16QAM	1	0	High	30	7160	-36.64	PASS
Band12	3MHz	714.5	16QAM	5	0	High	30	7160	-36.04	PASS
Band12	5MHz	701.5	QPSK	1	0	Low	30	7160	-35.94	PASS
Band12	5MHz	701.5	QPSK	6	0	Low	30	7160	-36.05	PASS
Band12	5MHz	701.5	16QAM	1	0	Low	30	7160	-34.94	PASS
Band12	5MHz	701.5	16QAM	5	0	Low	30	7160	-29.25	PASS
Band12	5MHz	707.5	QPSK	1	0	Middle	30	7160	-35.29	PASS
Band12	5MHz	707.5	QPSK	6	0	Middle	30	7160	-36.16	PASS
Band12	5MHz	707.5	16QAM	1	0	Middle	30	7160	-35.70	PASS
Band12	5MHz	707.5	16QAM	5	0	Middle	30	7160	-36.04	PASS
Band12	5MHz	713.5	QPSK	1	0	High	30	7160	-36.59	PASS
Band12	5MHz	713.5	QPSK	6	0	High	30	7160	-37.15	PASS
Band12	5MHz	713.5	16QAM	1	0	High	30	7160	-36.26	PASS
Band12	5MHz	713.5	16QAM	5	0	High	30	7160	-36.70	PASS

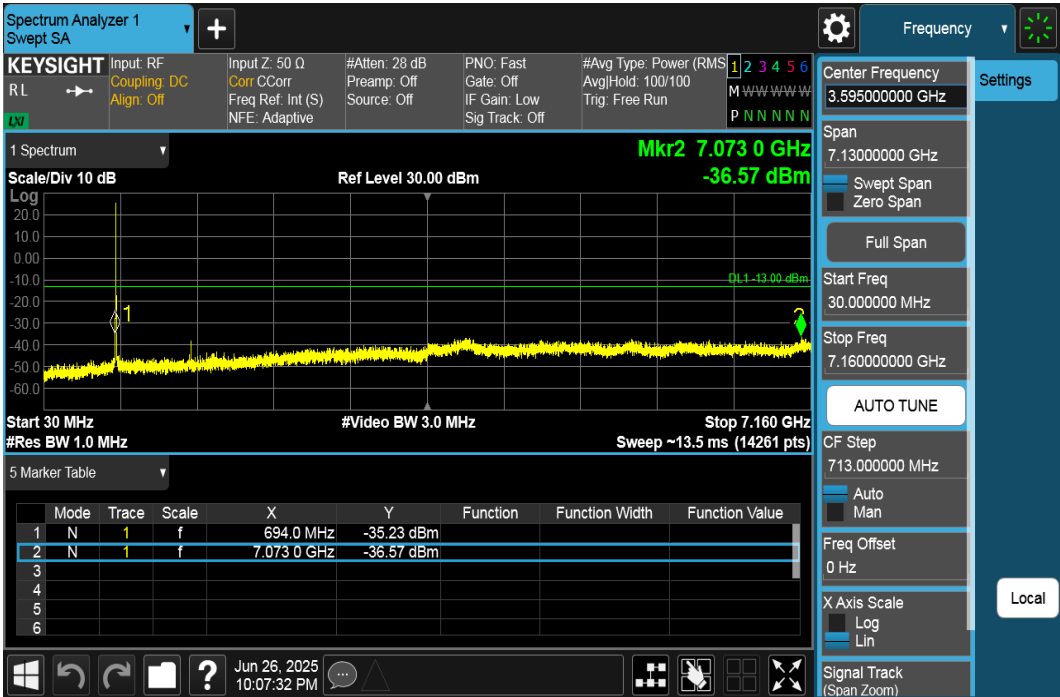
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Band12	10MHz	704	QPSK	5	0	Low	30	7160	-35.93	PASS
Band12	10MHz	707.5	QPSK	1	0	Middle	30	7160	-35.93	PASS
Band12	10MHz	707.5	QPSK	6	0	Middle	30	7160	-36.44	PASS
Band12	10MHz	707.5	QPSK	1	0	Middle	30	7160	-35.54	PASS
Band12	10MHz	707.5	QPSK	5	0	Middle	30	7160	-36.66	PASS
Band12	10MHz	711	QPSK	1	0	High	30	7160	-37.07	PASS
Band12	10MHz	711	QPSK	6	0	High	30	7160	-36.60	PASS
Band12	10MHz	711	QPSK	1	0	High	30	7160	-36.28	PASS
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Test Graphs

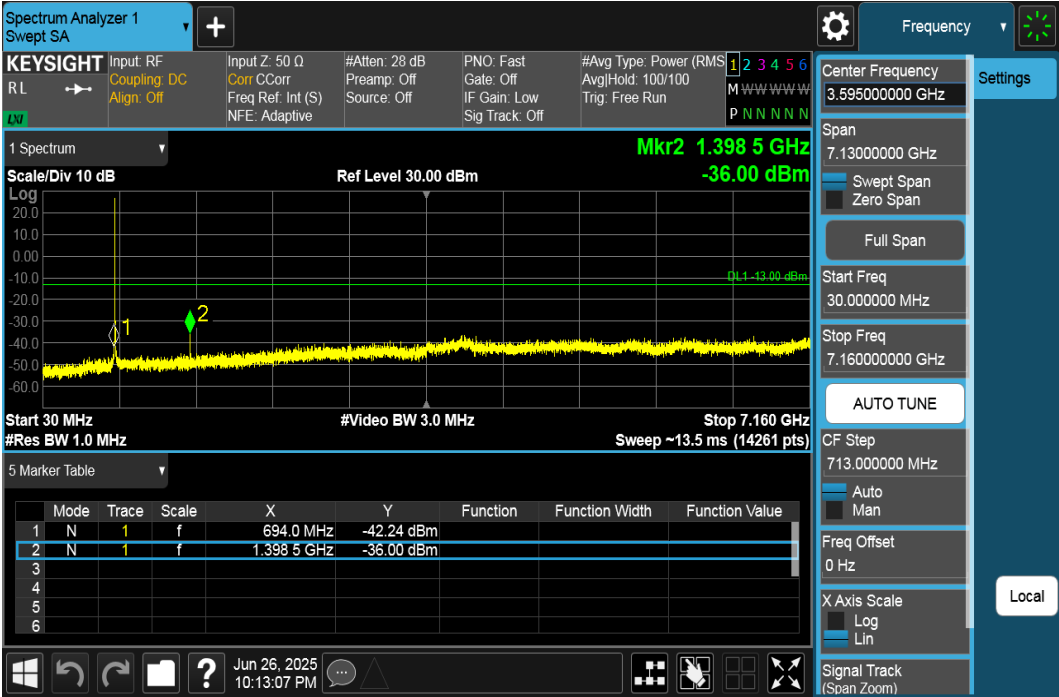
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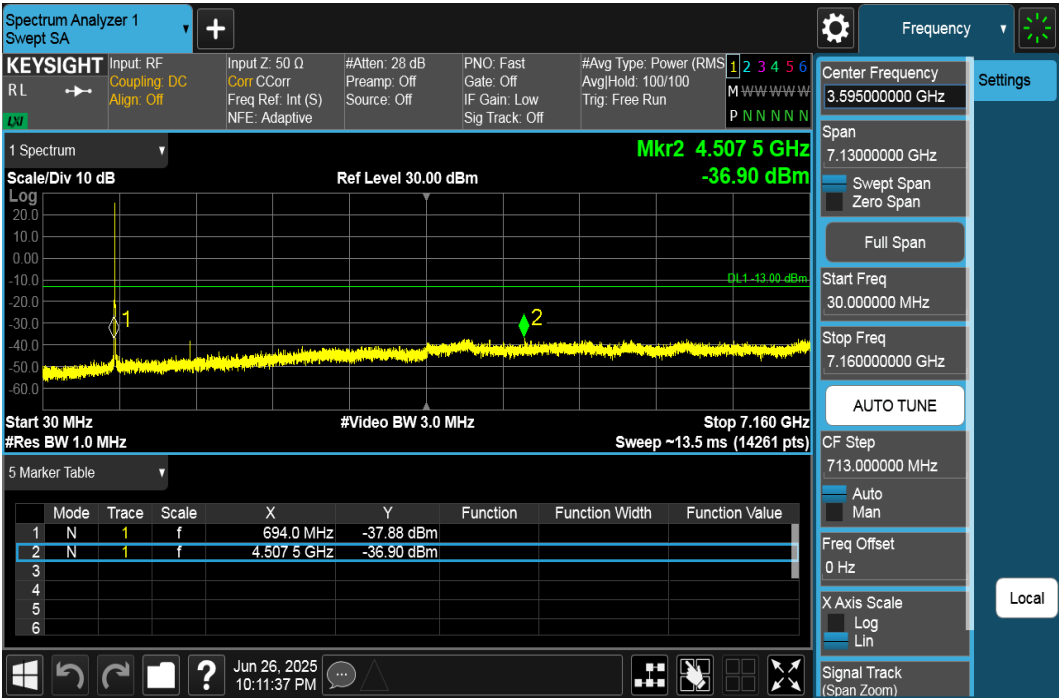
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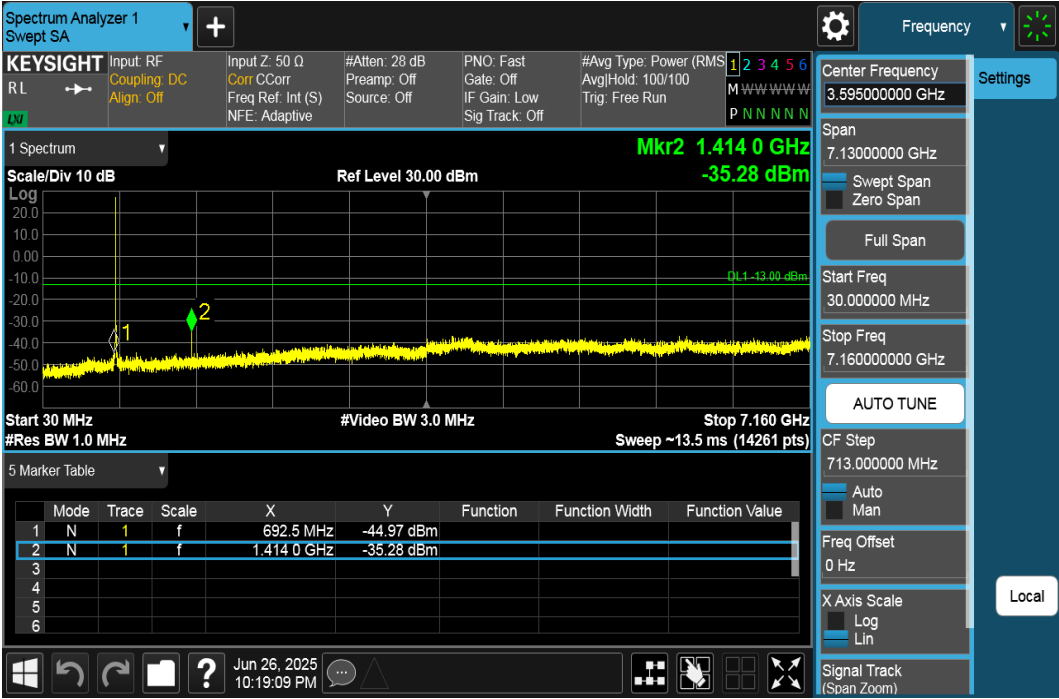
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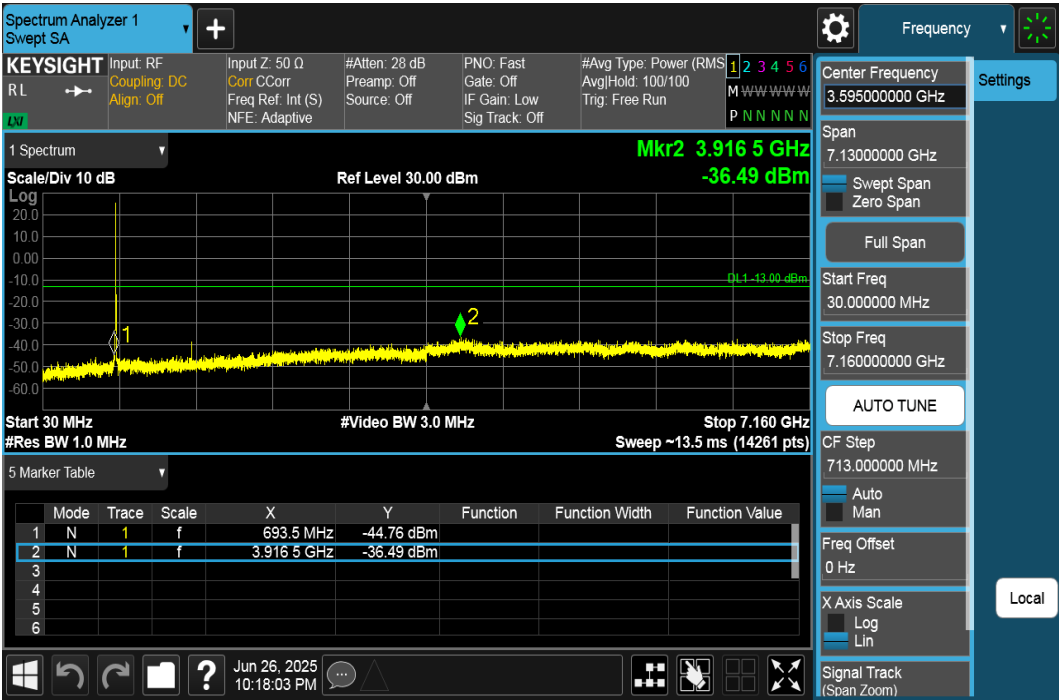
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1.4M_707.5MHz_CHM_QPSK_1RB_CSE1



1.4M_707.5MHz_CHM_QPSK_6RB_CSE1



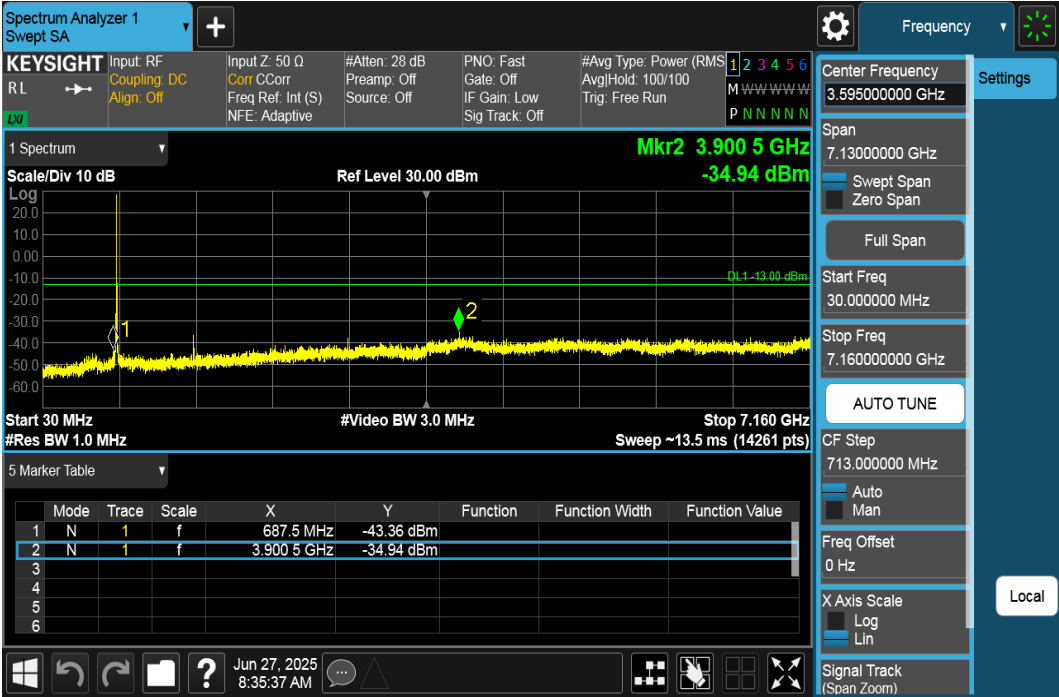
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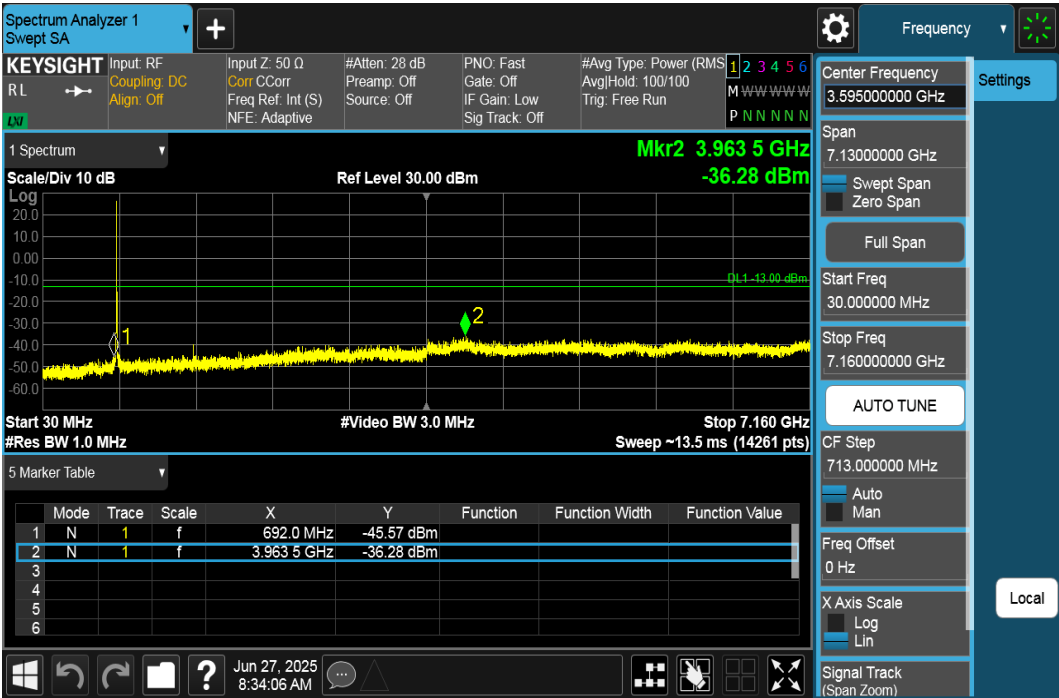
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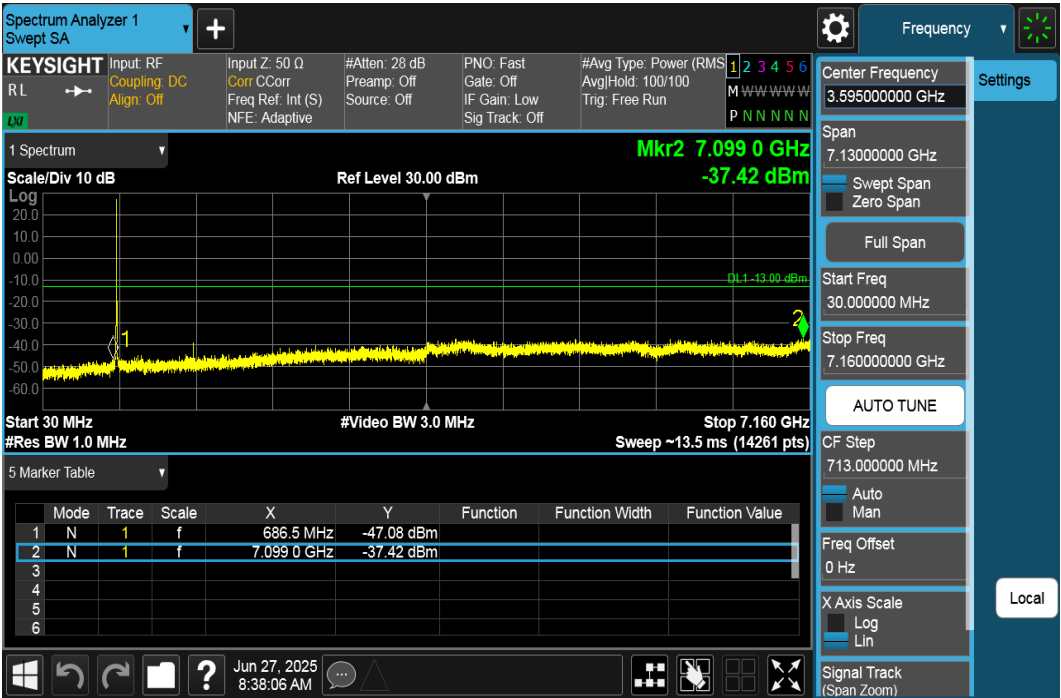
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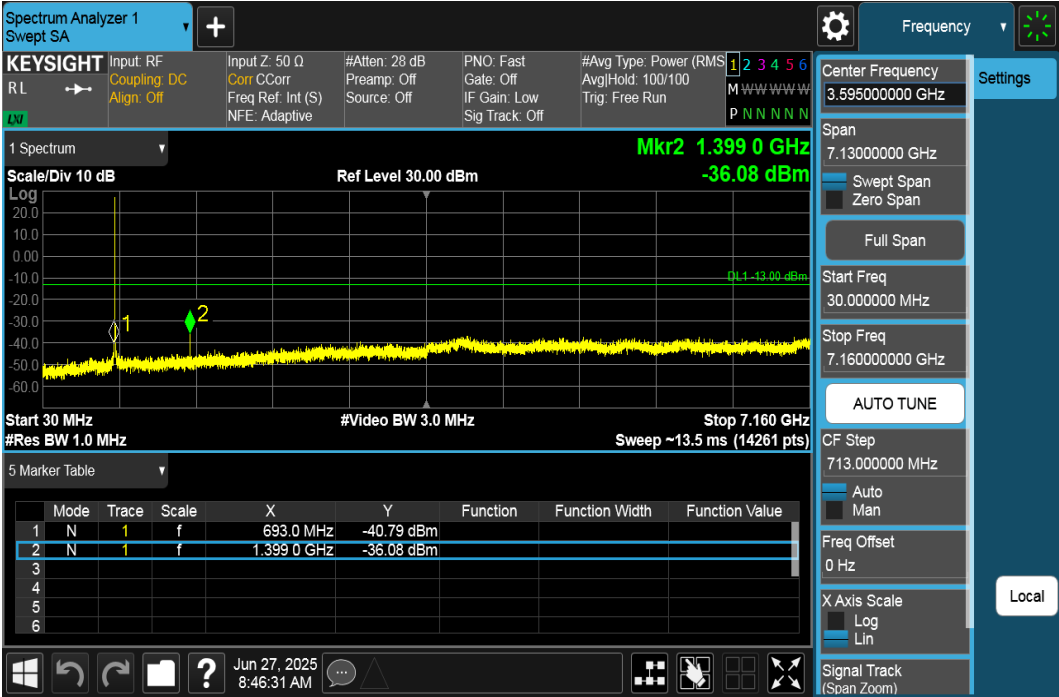
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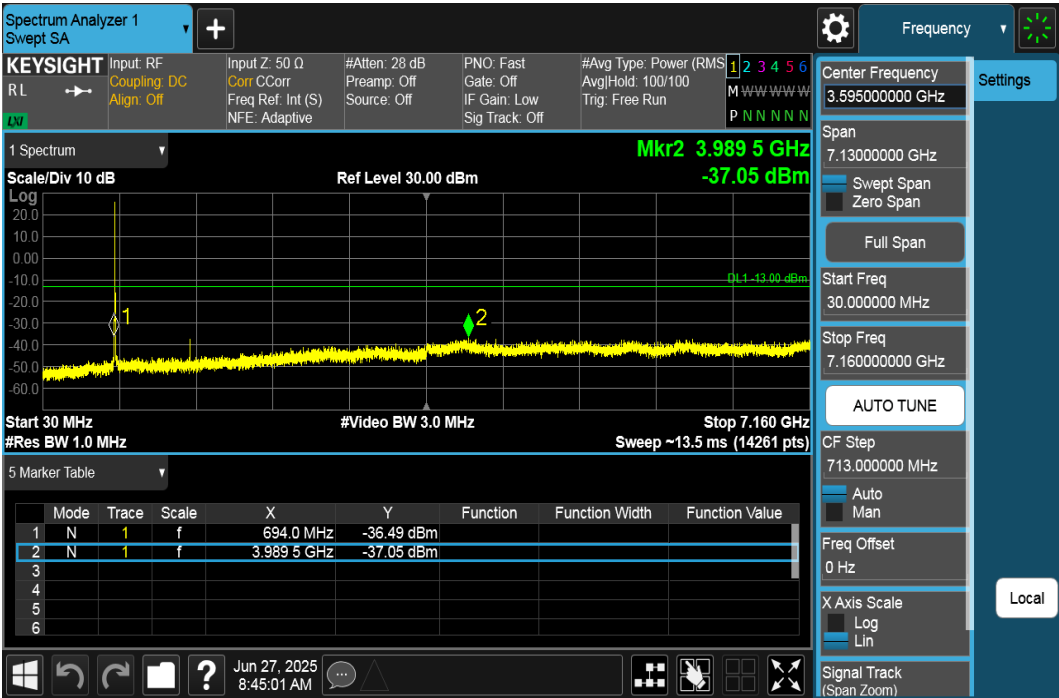
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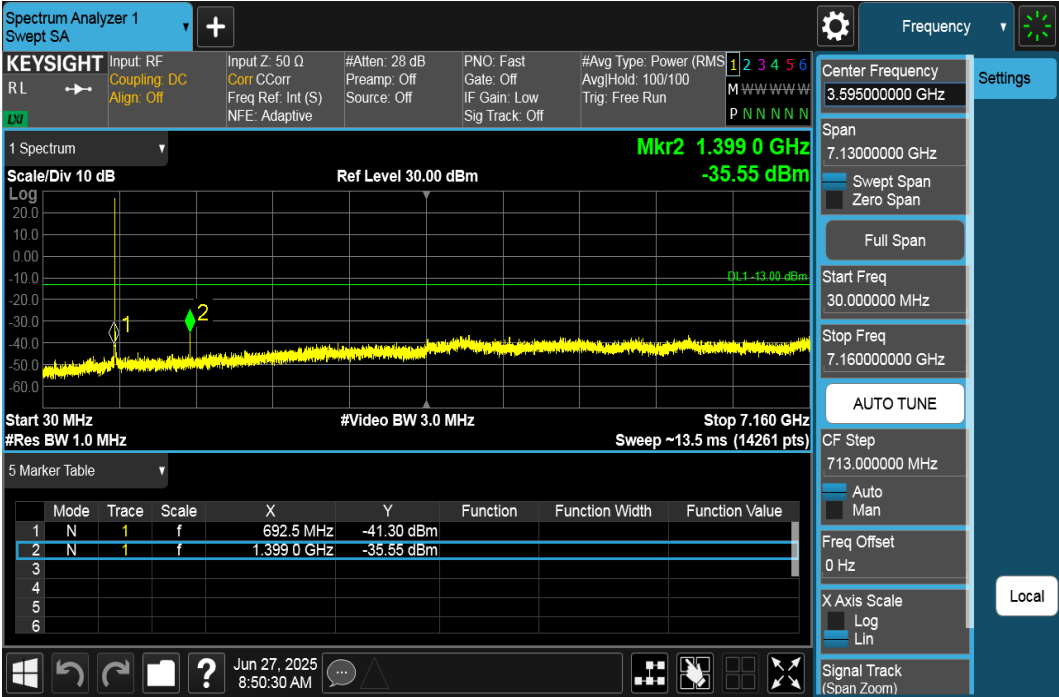
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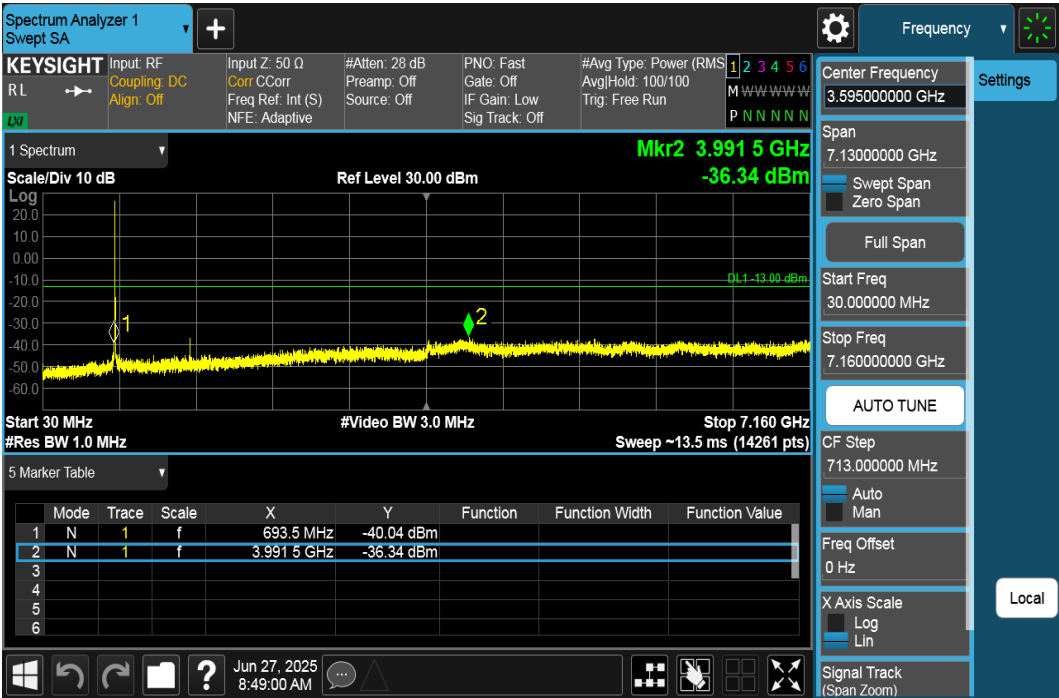
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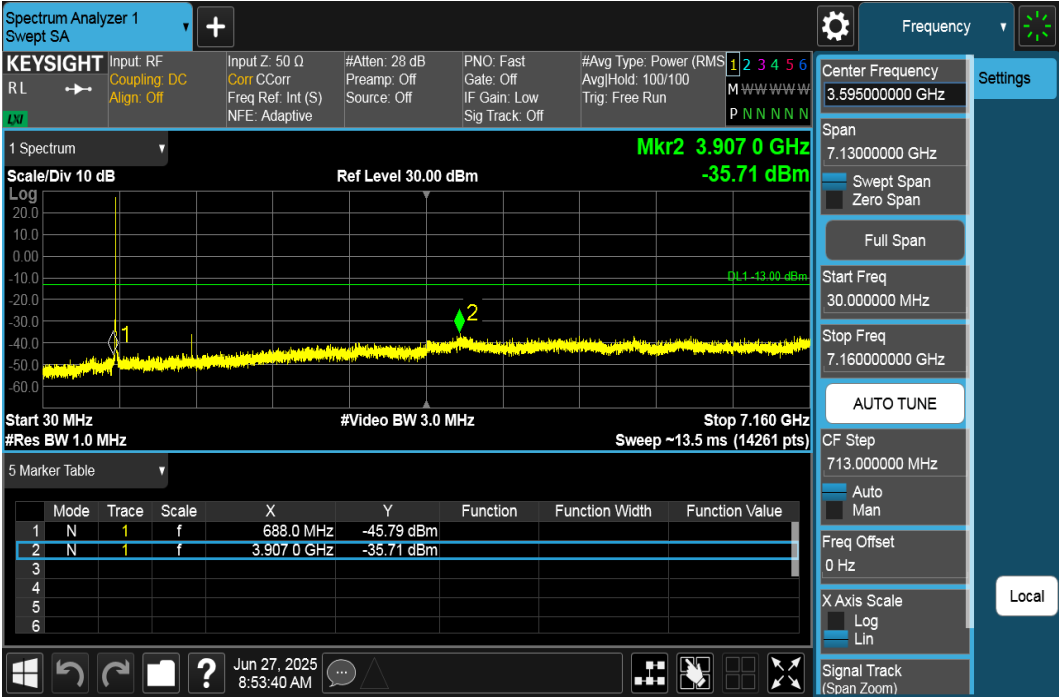
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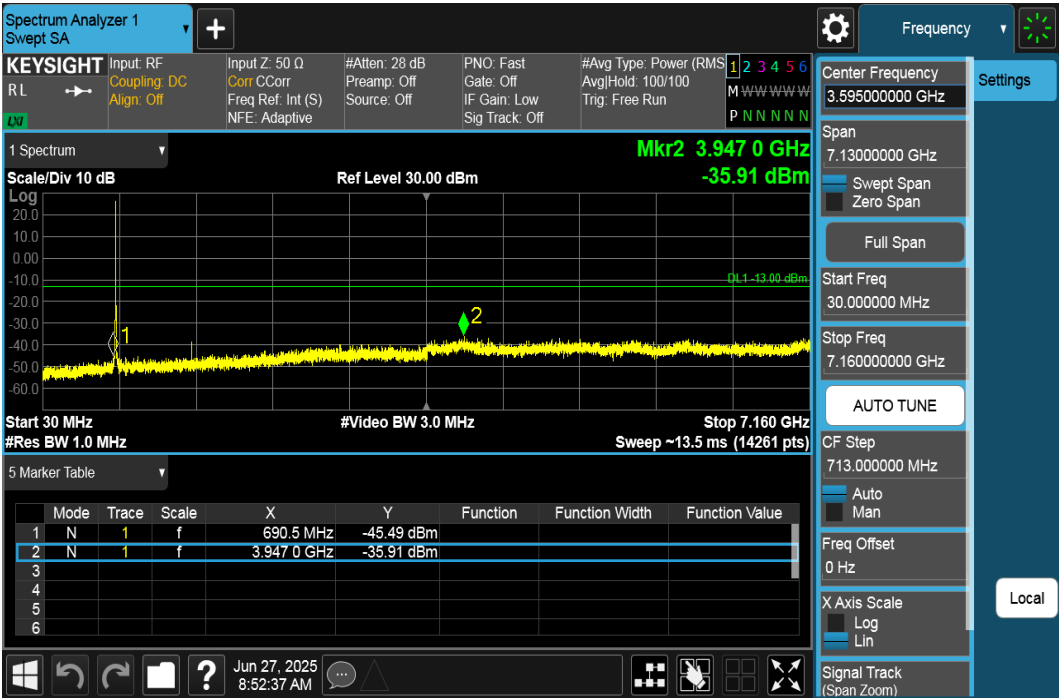
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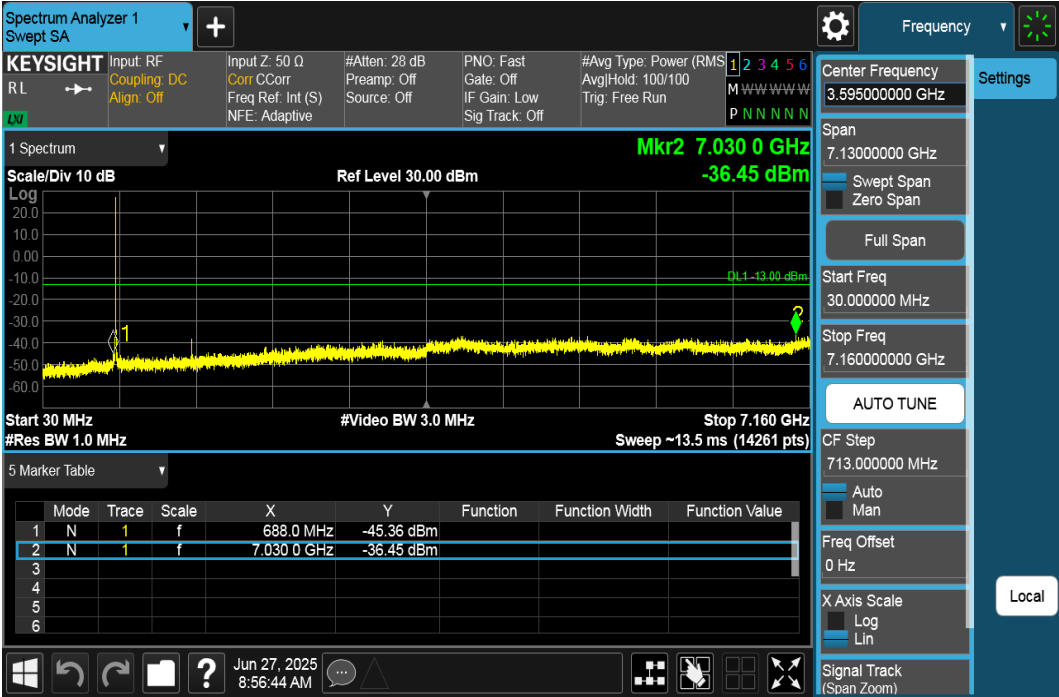
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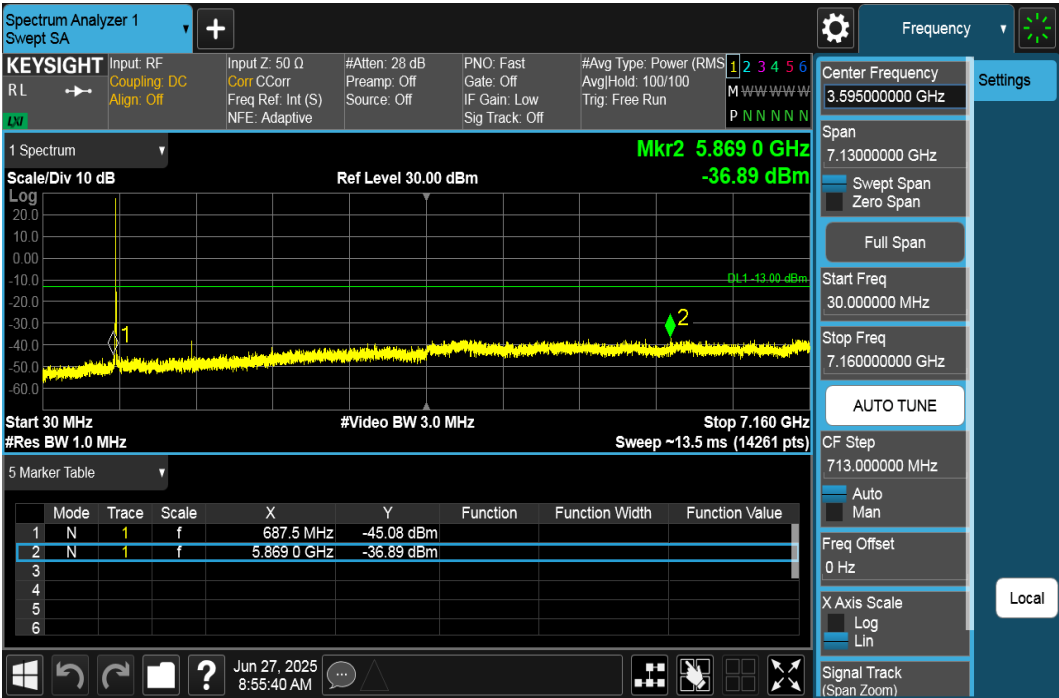
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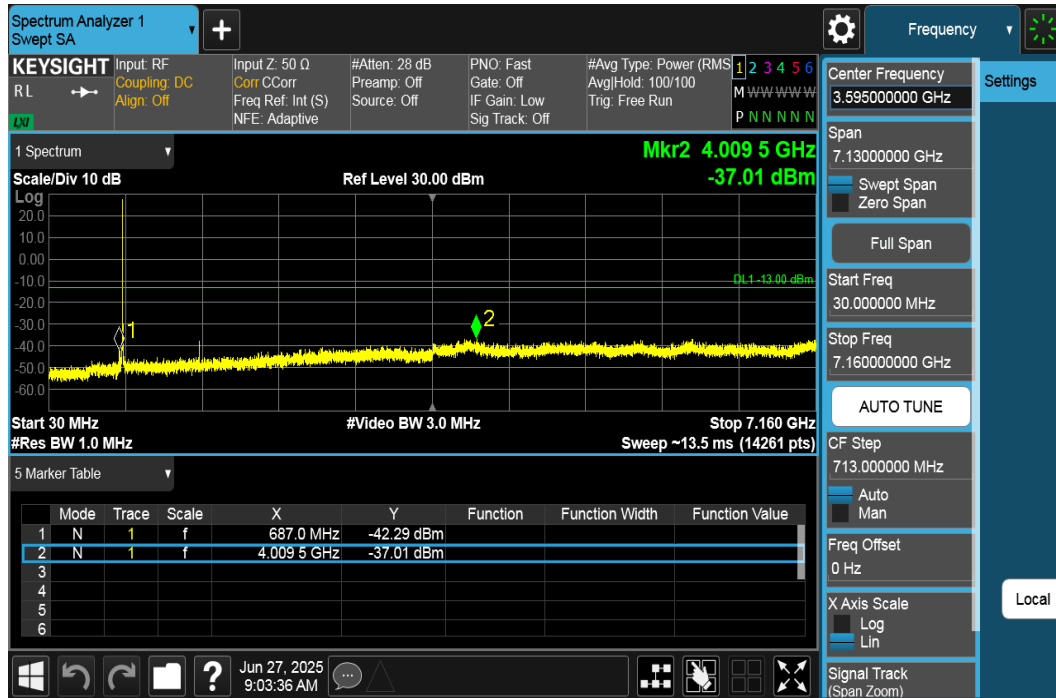
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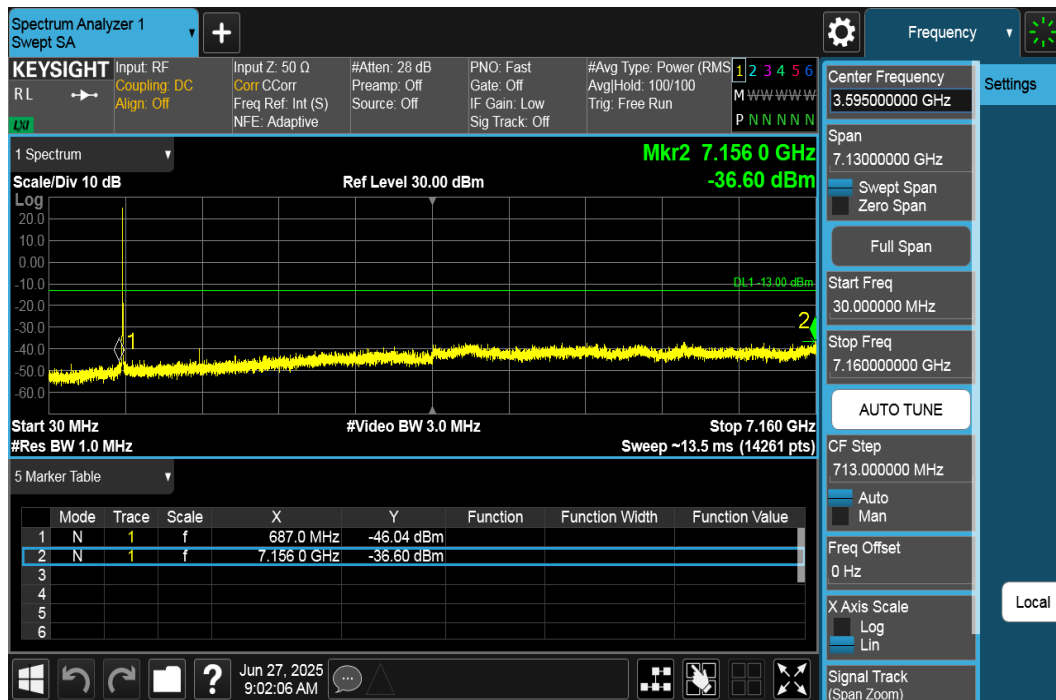
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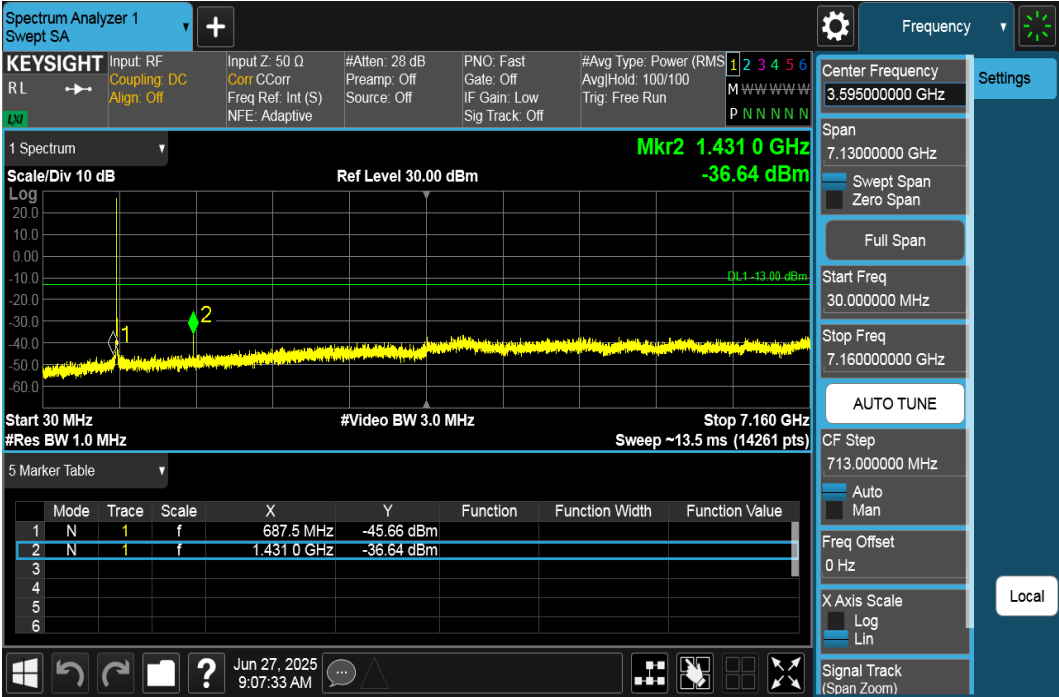
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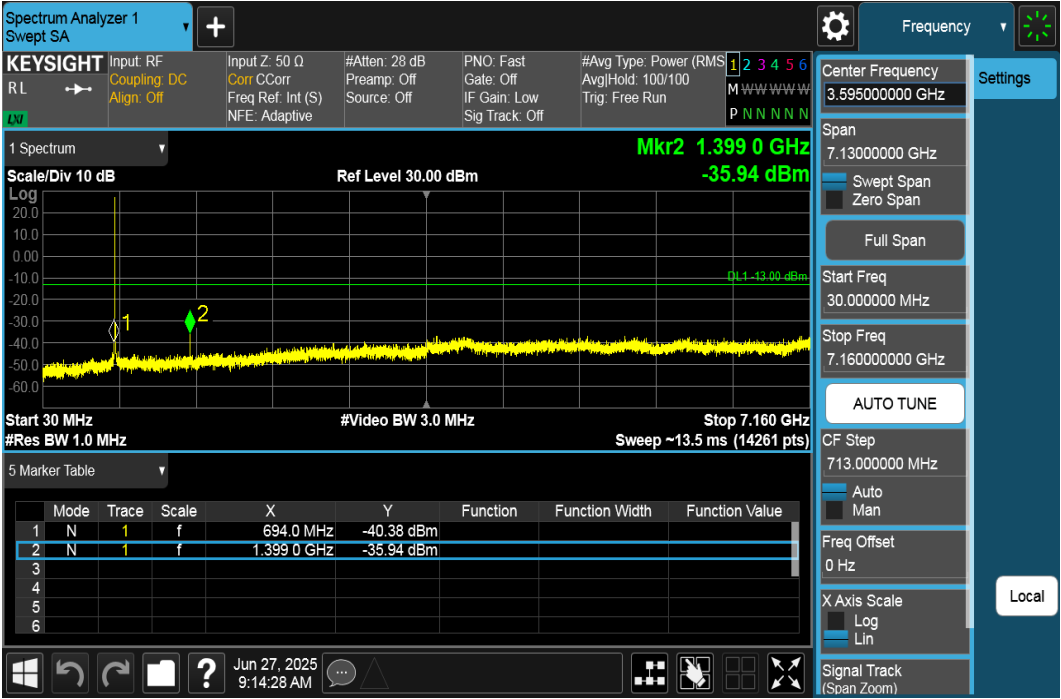
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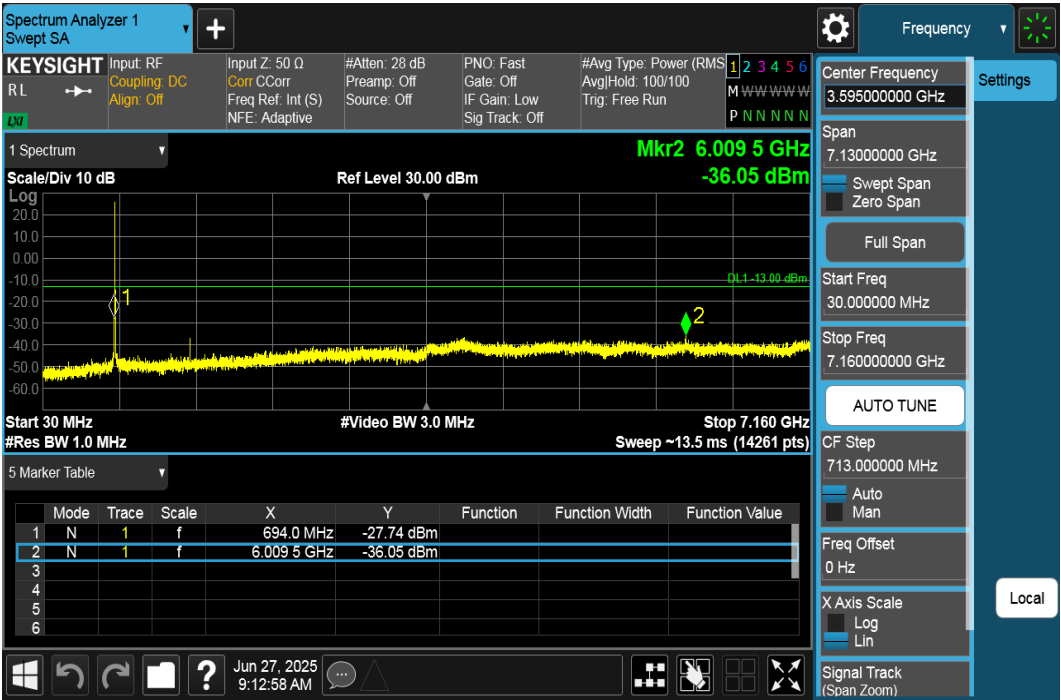
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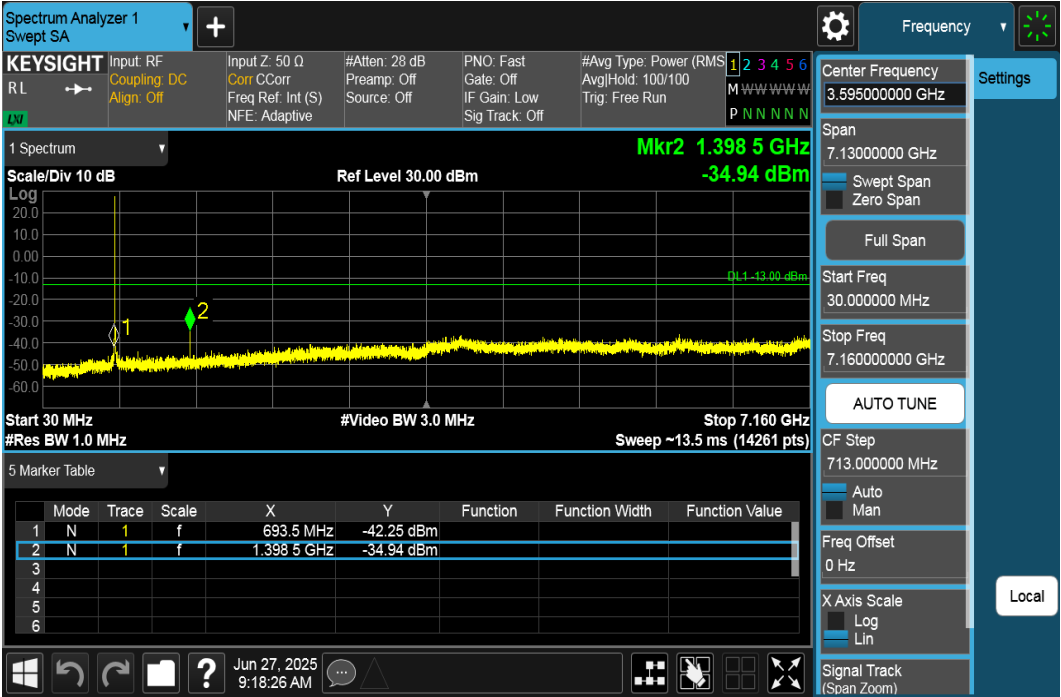
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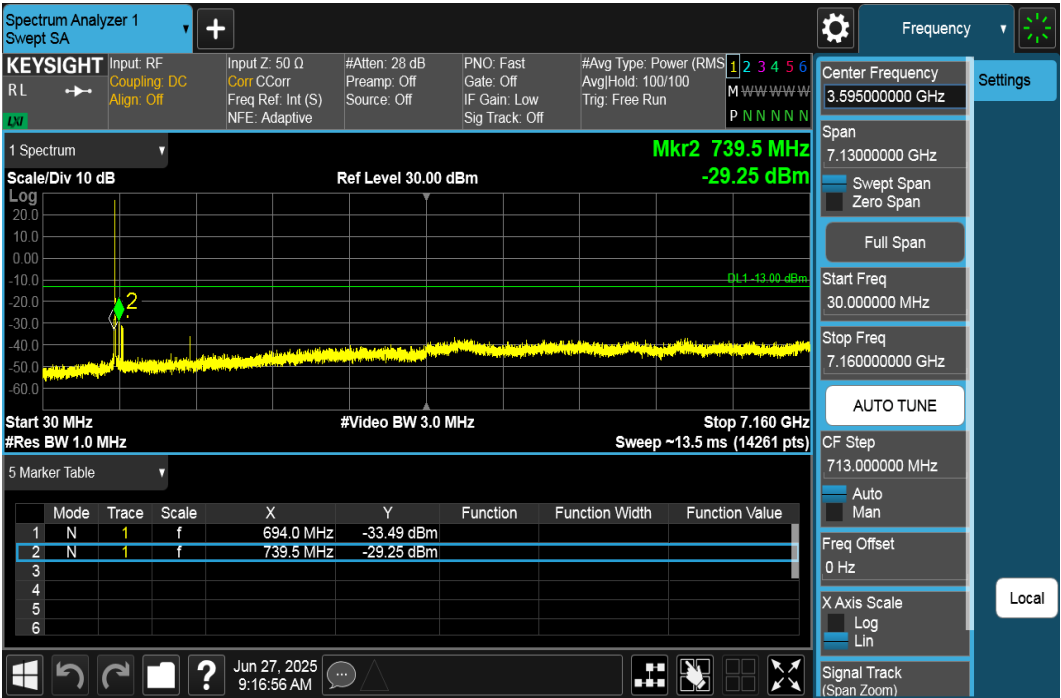
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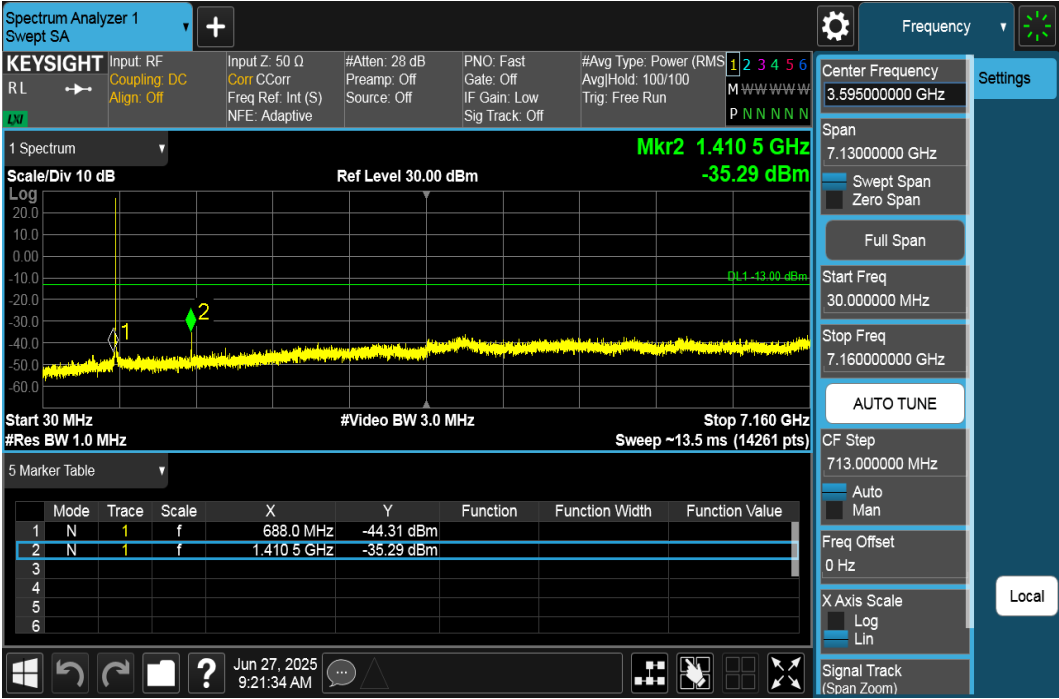
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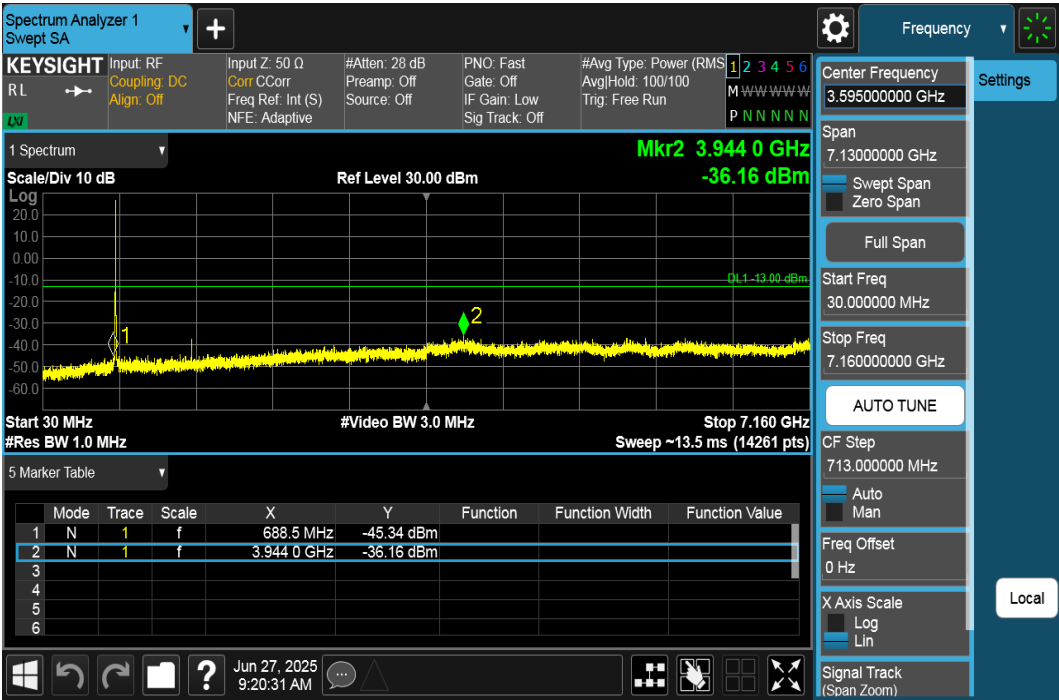
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5M_707.5MHz_CHM_QPSK_1RB_CSE1



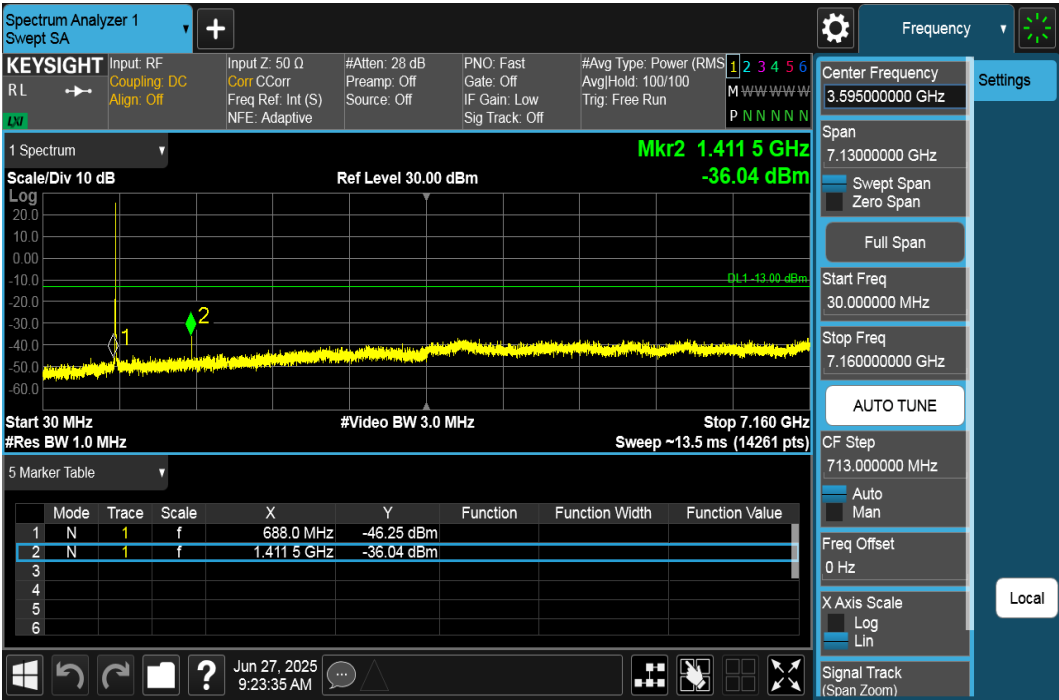
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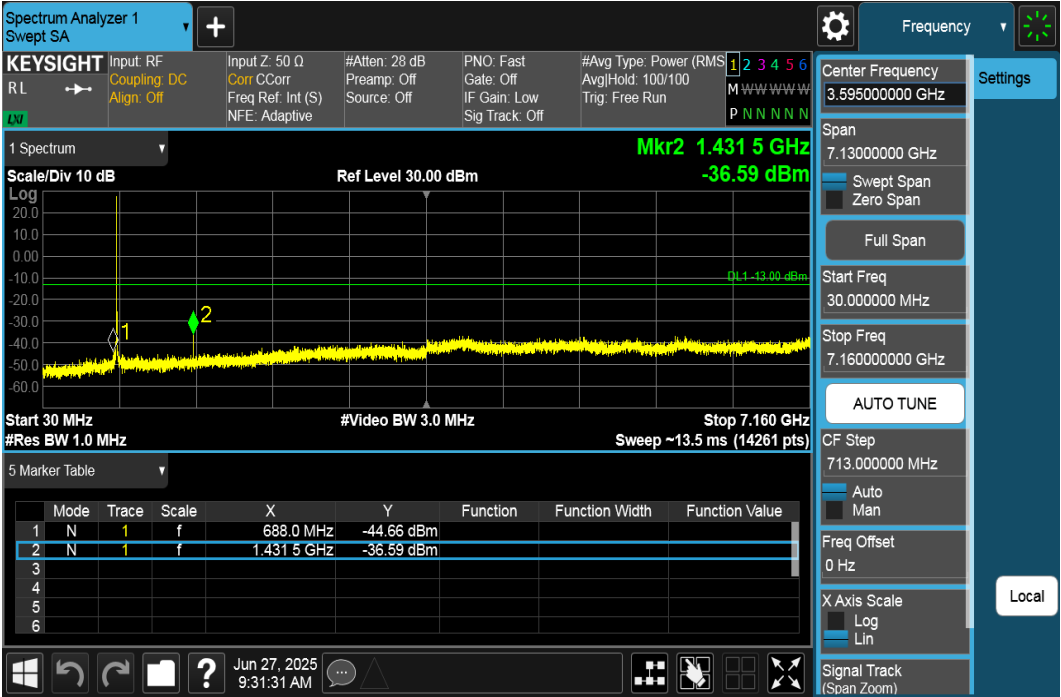
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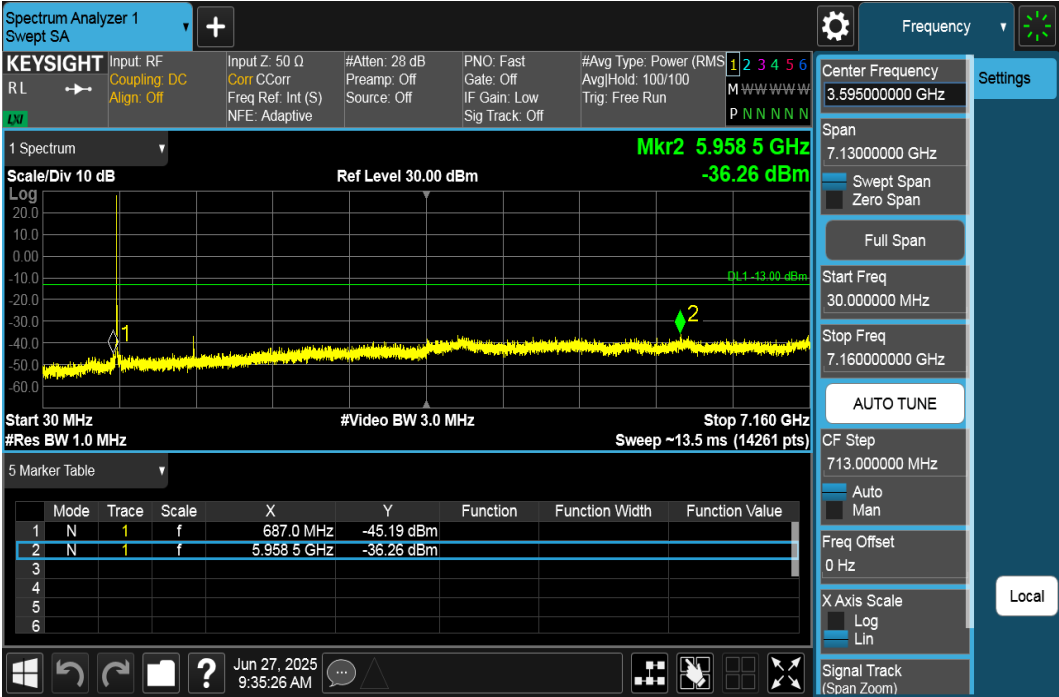
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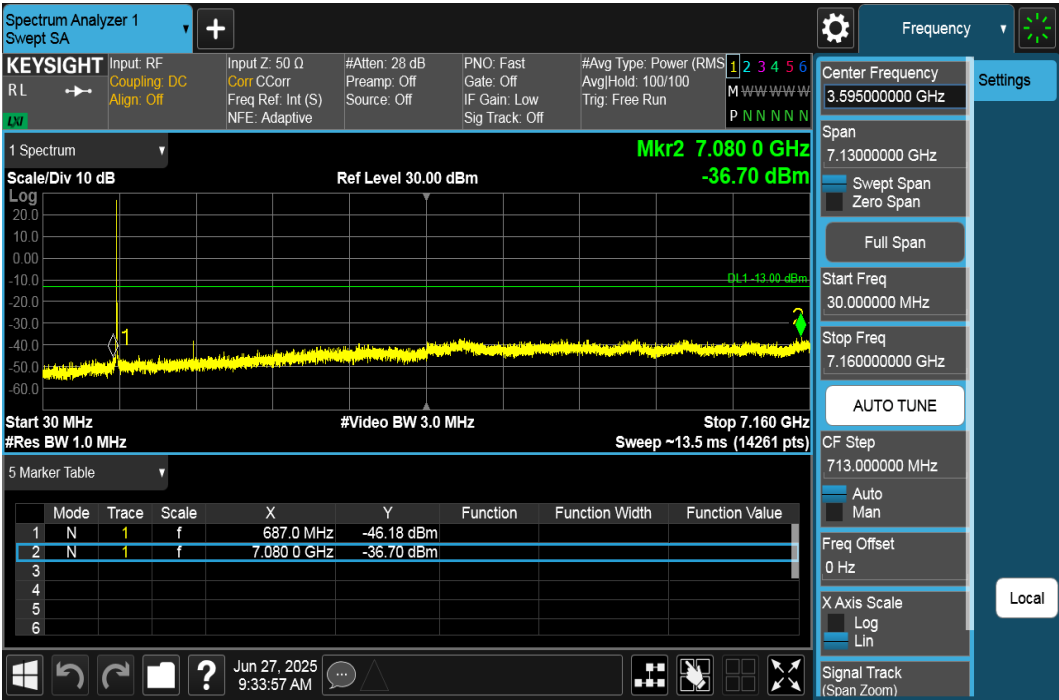
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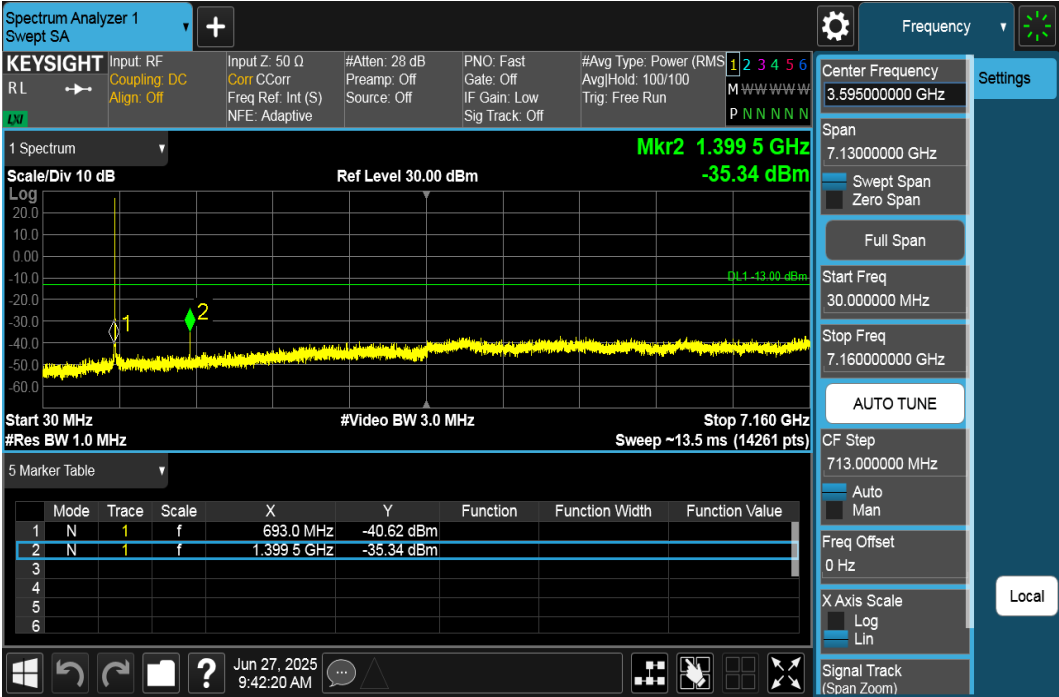
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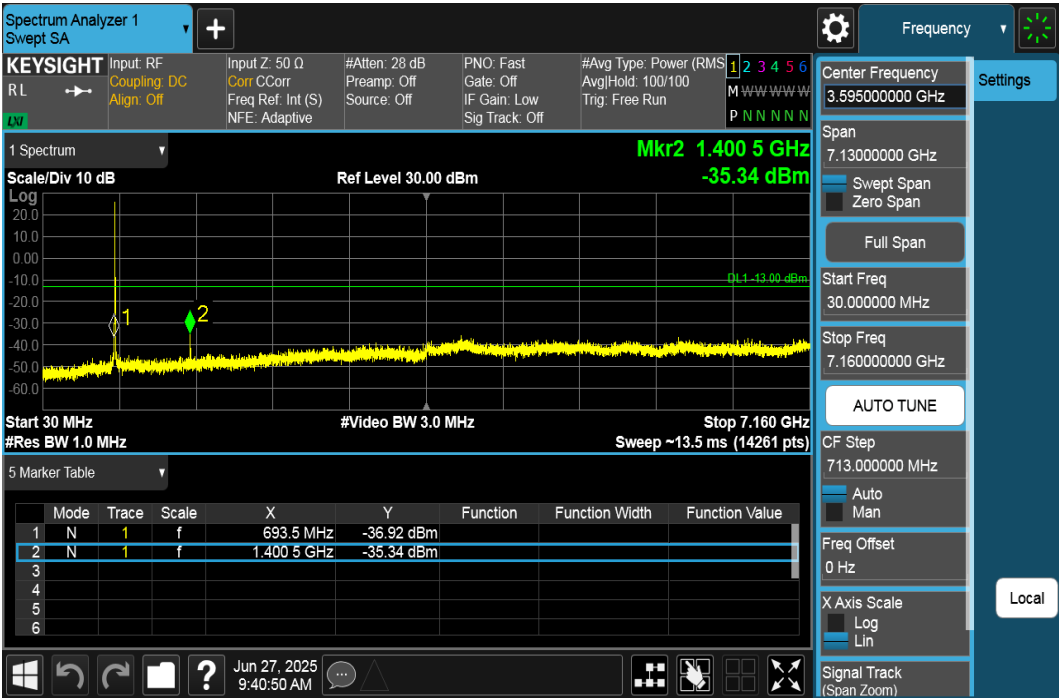
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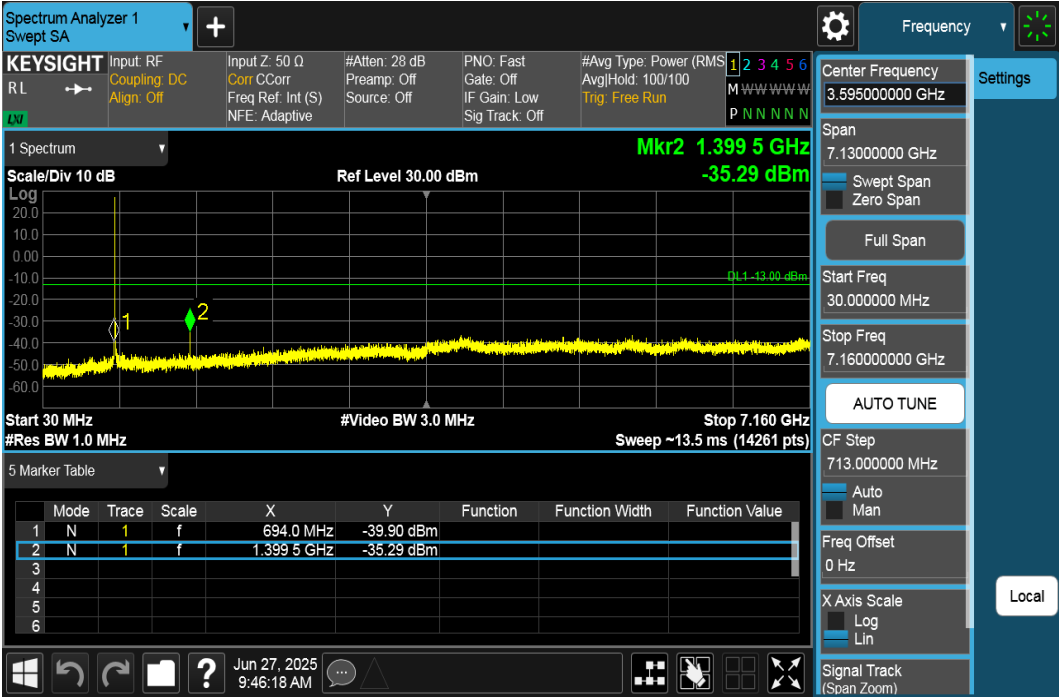
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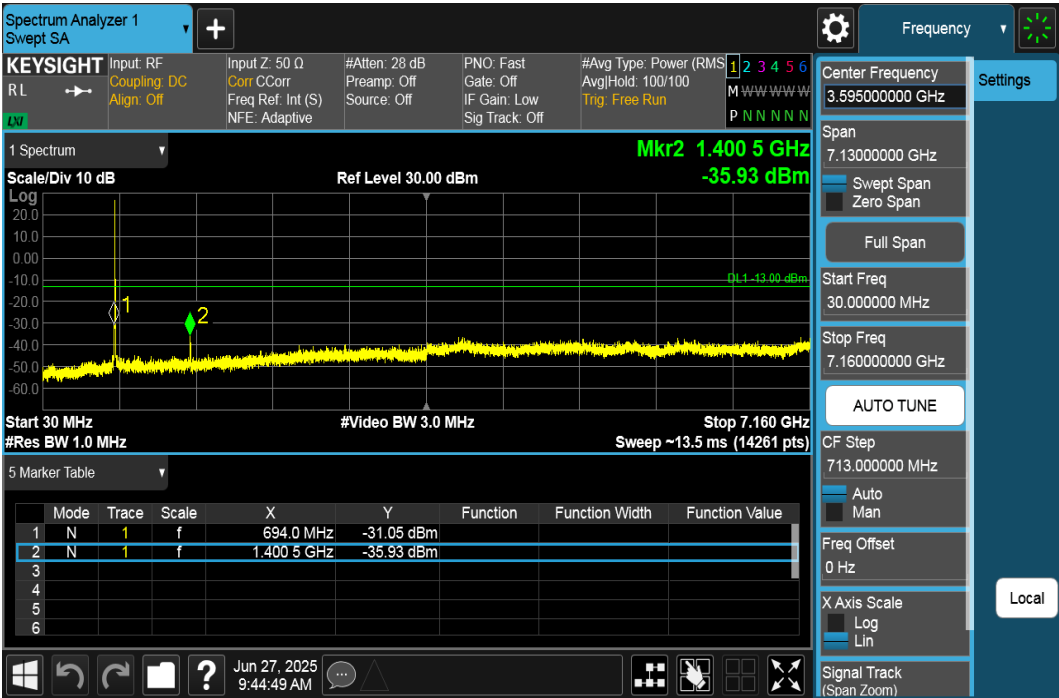
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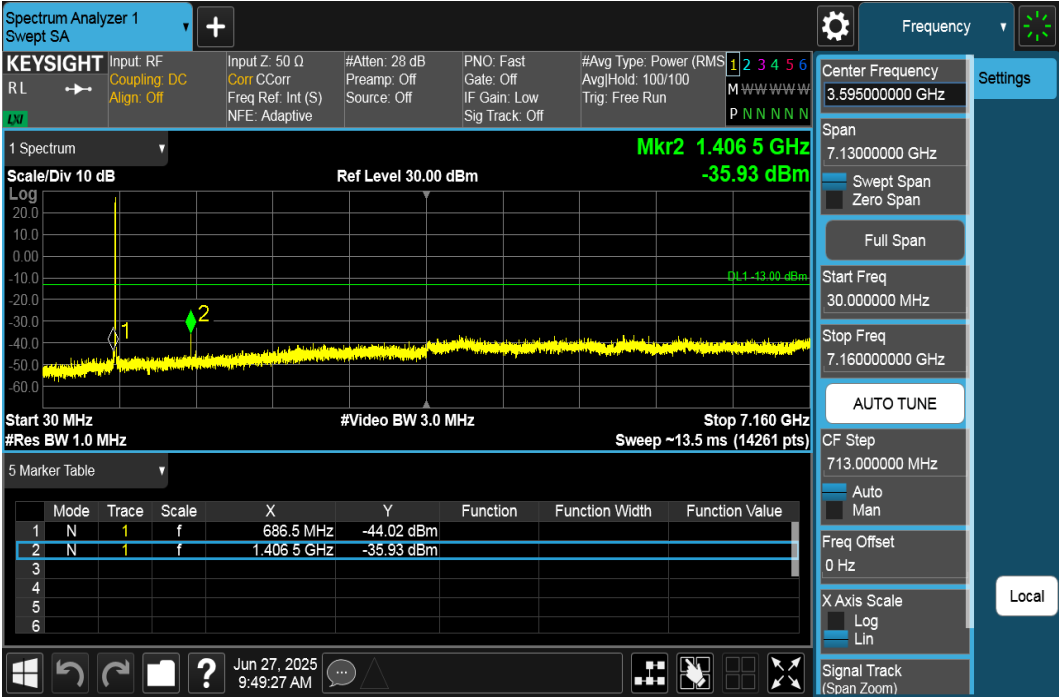
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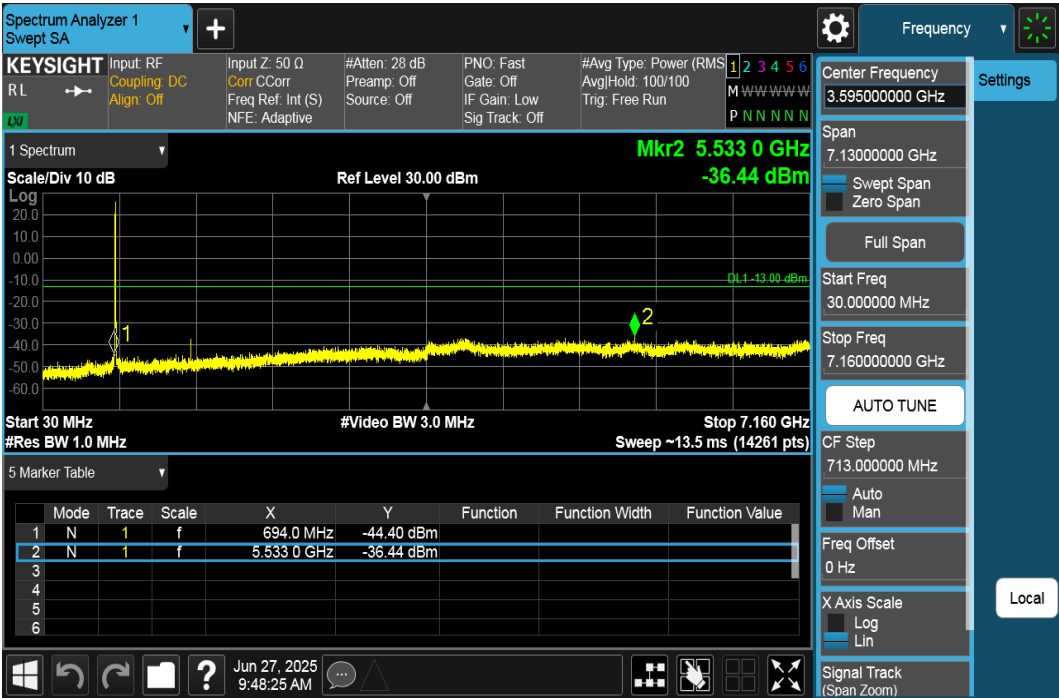
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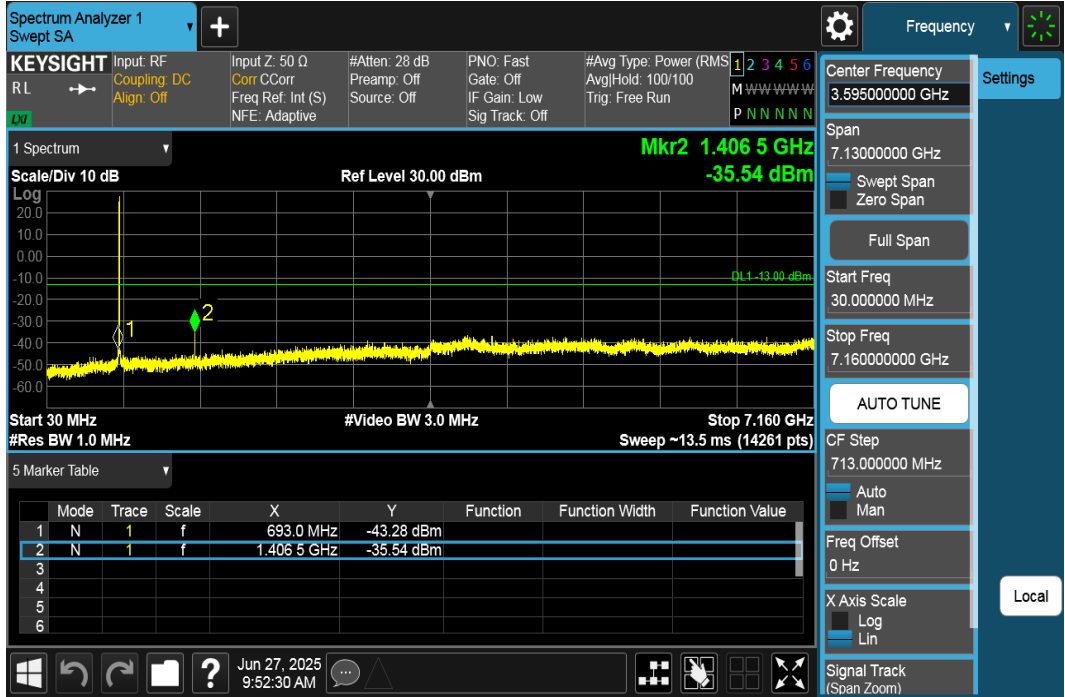
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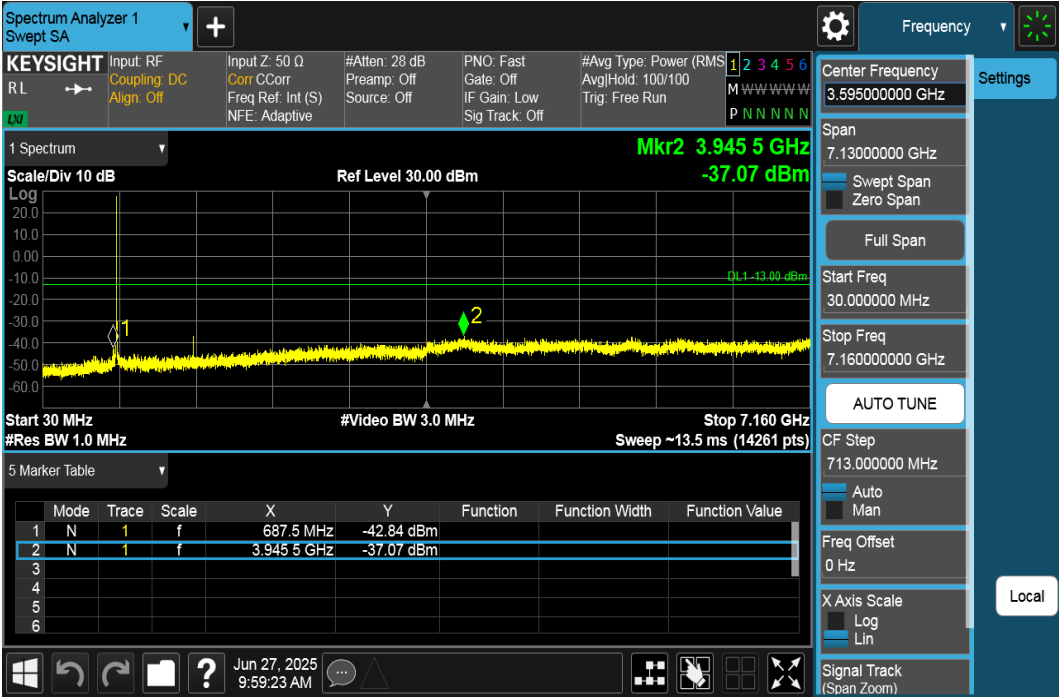
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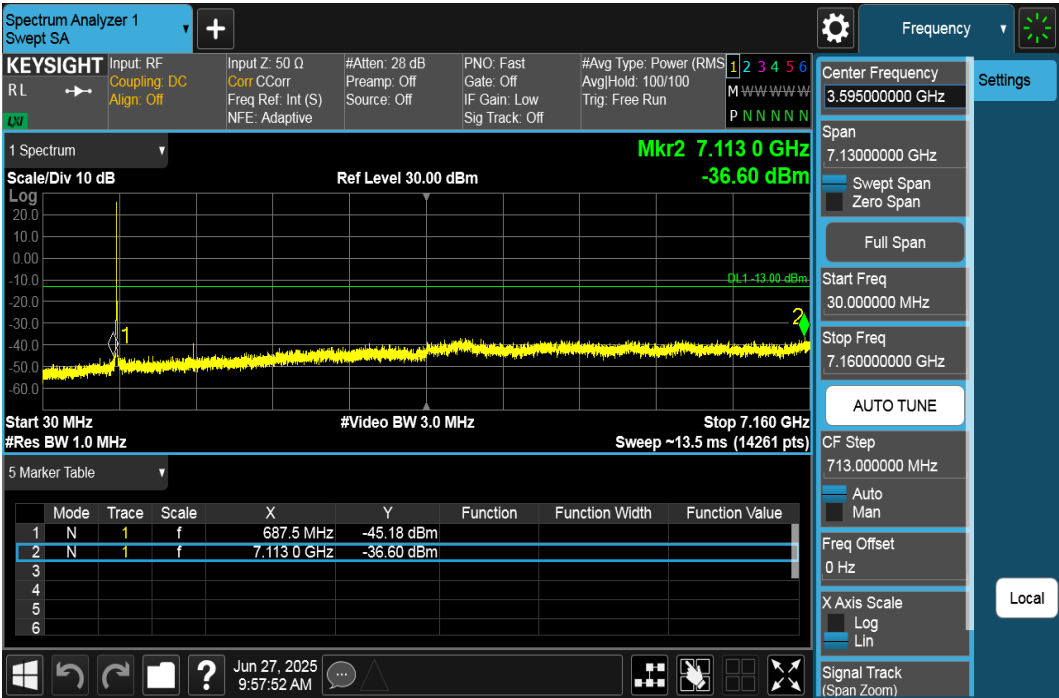
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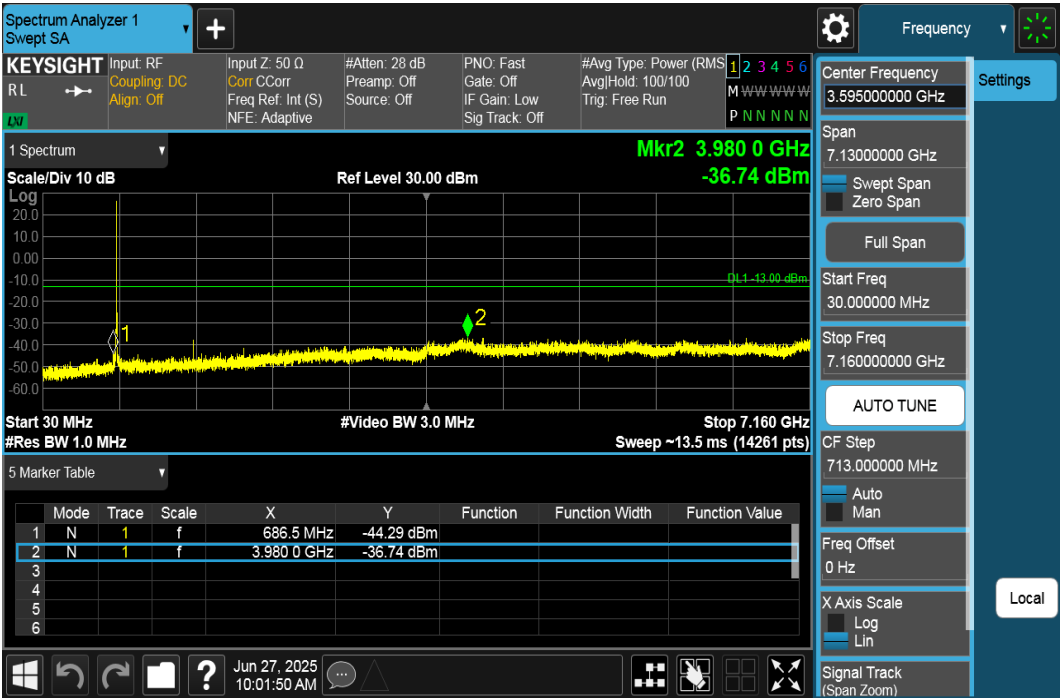
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10M_711MHz_CHH_16QAM_1RB_CSE1



10M_711MHz_CHH_16QAM_5RB_CSE1



Appendix F: Frequency stability

Frequency Error VS. Voltage

Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	QPSK/ 10MHz	LCH	TN	VL	0.88	0.00126	PASS
				VN	1.11	0.00159	PASS
				VH	1.89	0.00270	PASS
		MCH	TN	VL	1.78	0.00253	PASS
				VN	1.47	0.00209	PASS
				VH	0.84	0.00119	PASS
		HCH	TN	VL	0.42	0.00059	PASS
				VN	0.14	0.00020	PASS
				VH	0.52	0.00073	PASS
	16QAM/ 10MHz	LCH	TN	VL	-0.33	-0.00047	PASS
				VN	1.13	0.00161	PASS
				VH	0.36	0.00051	PASS
		MCH	TN	VL	0.22	0.00031	PASS
				VN	-0.19	-0.00027	PASS
				VH	-0.73	-0.00104	PASS
		HCH	TN	VL	-0.06	-0.00008	PASS
				VN	-1.67	-0.00234	PASS
				VH	0.52	0.00073	PASS

Frequency Error VS. Temperature

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	QPSK/ 10MHz	LCH	VN	-30	1.22	0.00174	PASS
				-20	0.99	0.00141	PASS
				-10	1.19	0.00170	PASS
				0	1.82	0.00260	PASS
				10	1.24	0.00177	PASS
				20	1.05	0.00150	PASS
				30	0.47	0.00067	PASS
				40	1.09	0.00156	PASS
				50	1.03	0.00147	PASS
		MCH	VN	-30	-0.39	-0.00055	PASS
				-20	-0.36	-0.00051	PASS
				-10	0.33	0.00047	PASS
				0	-0.16	-0.00023	PASS
				10	0.71	0.00101	PASS
				20	0.34	0.00048	PASS
				30	1.46	0.00207	PASS
				40	0.35	0.00050	PASS
				50	-0.51	-0.00072	PASS
		HCH	VN	-30	1.38	0.00193	PASS
				-20	0.78	0.00109	PASS
				-10	1.34	0.00187	PASS
				0	0.09	0.00013	PASS
				10	-0.06	-0.00008	PASS
				20	1.26	0.00176	PASS
				30	-0.07	-0.00010	PASS
				40	0.15	0.00021	PASS
				50	-0.45	-0.00063	PASS

Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 band12	16QAM/ 10MHz	LCH	VN	-30	0.84	0.00120	PASS
				-20	0.85	0.00121	PASS
				-10	-1.05	-0.00150	PASS
				0	-2.43	-0.00347	PASS
				10	0.19	0.00027	PASS
				20	0.25	0.00036	PASS
				30	0.17	0.00024	PASS
				40	0.04	0.00006	PASS
				50	0.39	0.00056	PASS
		MCH	VN	-30	-0.64	-0.00091	PASS
				-20	-0.63	-0.00090	PASS
				-10	0.59	0.00084	PASS
				0	-0.69	-0.00098	PASS
				10	-1.95	-0.00277	PASS
				20	0.64	0.00091	PASS
				30	1.71	0.00243	PASS
				40	-0.57	-0.00081	PASS
				50	0.15	0.00021	PASS
		HCH	VN	-30	0.39	0.00055	PASS
				-20	0.66	0.00092	PASS
				-10	1.15	0.00161	PASS
				0	0.02	0.00003	PASS
				10	0.17	0.00024	PASS
				20	0.63	0.00088	PASS
				30	0.32	0.00045	PASS
				40	0.41	0.00057	PASS
				50	-1.16	-0.00162	PASS

- End of the Appendix -