Appendix for test report

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1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
Band13	LTE/TM1	5	LCH	RB1#0	23.94	15.29	34.7	PASS
				RB1#13	23.90	15.25	34.7	PASS
				RB1#24	23.98	15.33	34.7	PASS
				RB12#0	22.95	14.30	34.7	PASS
				RB12#6	22.87	14.22	34.7	PASS
				RB12#13	22.97	14.32	34.7	PASS
				RB25#0	22.86	14.21	34.7	PASS
			MCH	RB1#0	23.89	15.24	34.7	PASS
				RB1#13	23.82	15.17	34.7	PASS
				RB1#24	23.90	15.25	34.7	PASS
				RB12#0	23.88	15.23	34.7	PASS
				RB12#6	22.92	14.27	34.7	PASS
				RB12#13	22.85	14.20	34.7	PASS
				RB25#0	22.94	14.29	34.7	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	23.89	15.24	34.7	PASS
				RB1#13	23.84	15.19	34.7	PASS
				RB1#24	23.78	15.13	34.7	PASS
				RB12#0	22.82	14.17	34.7	PASS
				RB12#6	22.82	14.17	34.7	PASS
				RB12#13	22.95	14.30	34.7	PASS
				RB25#0	22.93	14.28	34.7	PASS
		10	MCH	RB1#0	23.92	15.27	34.7	PASS
				RB1#25	23.69	15.04	34.7	PASS
				RB1#49	23.84	15.19	34.7	PASS
				RB25#0	22.94	14.29	34.7	PASS
				RB25#13	22.96	14.31	34.7	PASS
				RB25#25	22.95	14.30	34.7	PASS
				RB50#0	22.93	14.28	34.7	PASS
	LTE/TM2	5	LCH	RB1#0	23.09	14.44	34.7	PASS
				RB1#13	23.14	14.49	34.7	PASS
				RB1#24	23.18	14.53	34.7	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#0	21.99	13.34	34.7	PASS
				RB12#6	21.80	13.15	34.7	PASS
				RB12#13	21.84	13.19	34.7	PASS
				RB25#0	21.76	13.11	34.7	PASS
			MCH	RB1#0	23.08	14.43	34.7	PASS
				RB1#13	23.16	14.51	34.7	PASS
				RB1#24	23.07	14.42	34.7	PASS
				RB12#0	21.92	13.27	34.7	PASS
				RB12#6	21.77	13.12	34.7	PASS
				RB12#13	21.84	13.19	34.7	PASS
				RB25#0	21.88	13.23	34.7	PASS
			HCH	RB1#0	23.43	14.78	34.7	PASS
				RB1#13	23.41	14.76	34.7	PASS
				RB1#24	23.33	14.68	34.7	PASS
				RB12#0	21.89	13.24	34.7	PASS
				RB12#6	21.89	13.24	34.7	PASS
				RB12#13	22.00	13.35	34.7	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.89	13.24	34.7	PASS
		10	MCH	RB1#0	23.21	14.56	34.7	PASS
				RB1#25	23.01	14.36	34.7	PASS
				RB1#49	23.22	14.57	34.7	PASS
				RB25#0	21.92	13.27	34.7	PASS
				RB25#13	21.94	13.29	34.7	PASS
				RB25#25	21.92	13.27	34.7	PASS
				RB50#0	21.85	13.20	34.7	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b, SGP = Signal Generator Level

Note2:

SET Span = 1.5 * OBW

SET RBW = 1% of the OBW,not to exceed 1MHz

SET VBW >= 3 * RBW

SET Sweep time = auto - couple.

Detector: RMS

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2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
Band13	LTE/TM1	5	LCH	RB1#0	3.55	13	PASS
				RB1#13	4.00	13	PASS
				RB1#24	4.59	13	PASS
				RB12#0	4.48	13	PASS
				RB12#6	4.81	13	PASS
				RB12#13	5.25	13	PASS
				RB25#0	5.64	13	PASS
			MCH	RB1#0	4.16	13	PASS
				RB1#13	4.36	13	PASS
				RB1#24	4.16	13	PASS
				RB12#0	5.52	13	PASS
				RB12#6	5.14	13	PASS
				RB12#13	5.04	13	PASS
				RB25#0	5.78	13	PASS
			HCH	RB1#0	4.41	13	PASS
				RB1#13	4.27	13	PASS
				RB1#24	5.55	13	PASS
				RB12#0	5.44	13	PASS
				RB12#6	5.22	13	PASS
				RB12#13	5.48	13	PASS
				RB25#0	5.63	13	PASS
		10	MCH	RB1#0	3.74	13	PASS
				RB1#25	4.49	13	PASS
				RB1#49	4.40	13	PASS
				RB25#0	5.45	13	PASS
				RB25#13	5.59	13	PASS
				RB25#25	5.73	13	PASS
				RB50#0	5.79	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.10	13	PASS
				RB1#13	4.63	13	PASS
				RB1#24	5.33	13	PASS
				RB12#0	5.16	13	PASS
				RB12#6	5.56	13	PASS
				RB12#13	6.03	13	PASS
				RB25#0	6.23	13	PASS

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Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.55	13	PASS
				RB1#13	4.93	13	PASS
				RB1#24	4.74	13	PASS
				RB12#0	6.14	13	PASS
				RB12#6	6.24	13	PASS
				RB12#13	6.16	13	PASS
				RB25#0	6.36	13	PASS
			HCH	RB1#0	4.80	13	PASS
				RB1#13	4.59	13	PASS
				RB1#24	4.91	13	PASS
				RB12#0	6.19	13	PASS
				RB12#6	6.07	13	PASS
				RB12#13	6.15	13	PASS
				RB25#0	6.57	13	PASS
		10	MCH	RB1#0	4.52	13	PASS
				RB1#25	5.53	13	PASS
				RB1#49	5.21	13	PASS
				RB25#0	6.13	13	PASS
				RB25#13	6.33	13	PASS
				RB25#25	6.28	13	PASS
				RB50#0	6.57	13	PASS

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3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

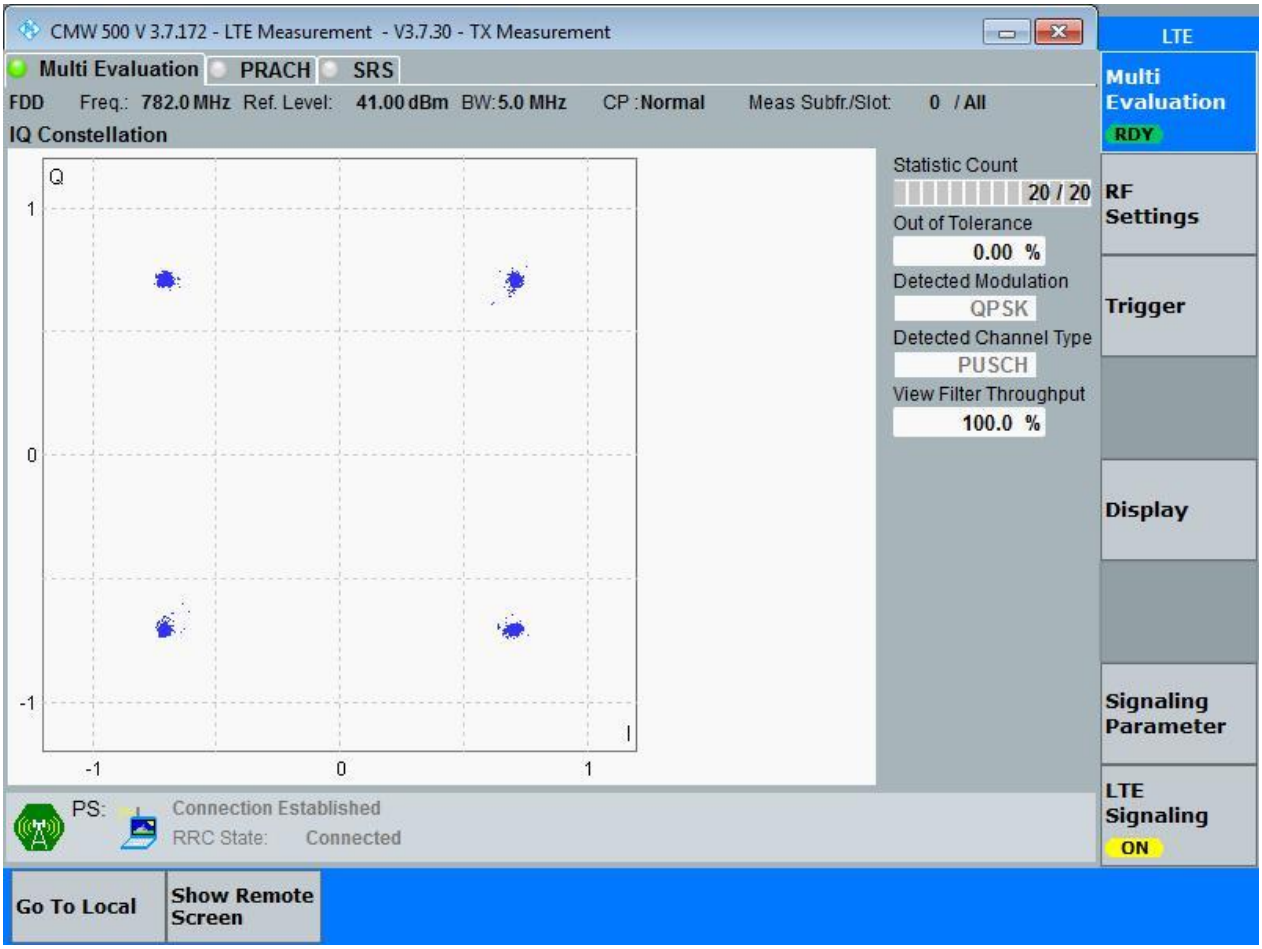
3.1.1 Test Band = Band13

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5MHz

3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 Test RB = RB25#0



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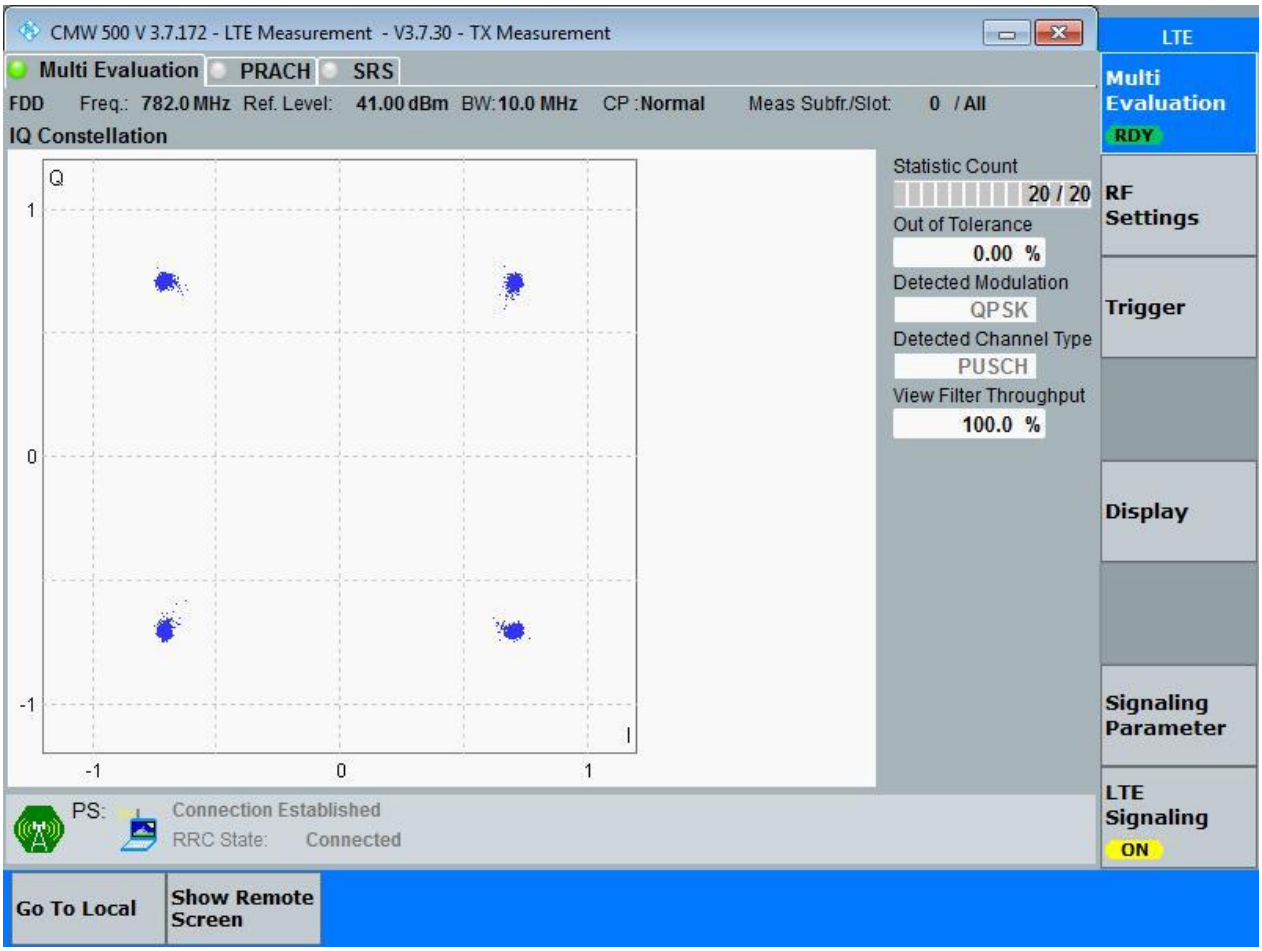
3.1.1.1.2 Test Bandwidth = 10MHz

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0



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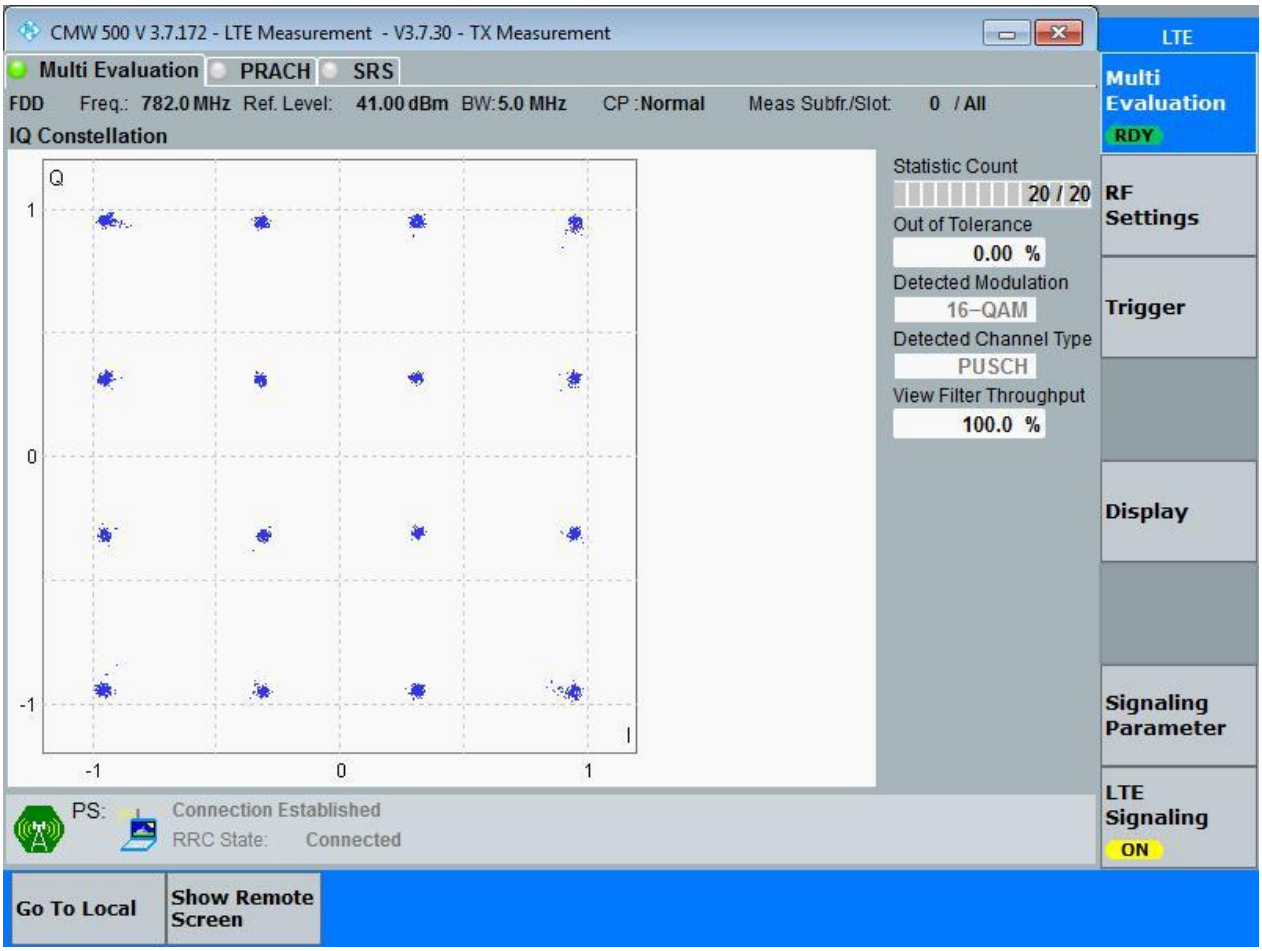
3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5MHz

3.1.1.2.1.1 Test Channel = MCH

3.1.1.2.1.1.1 Test RB = RB25#0



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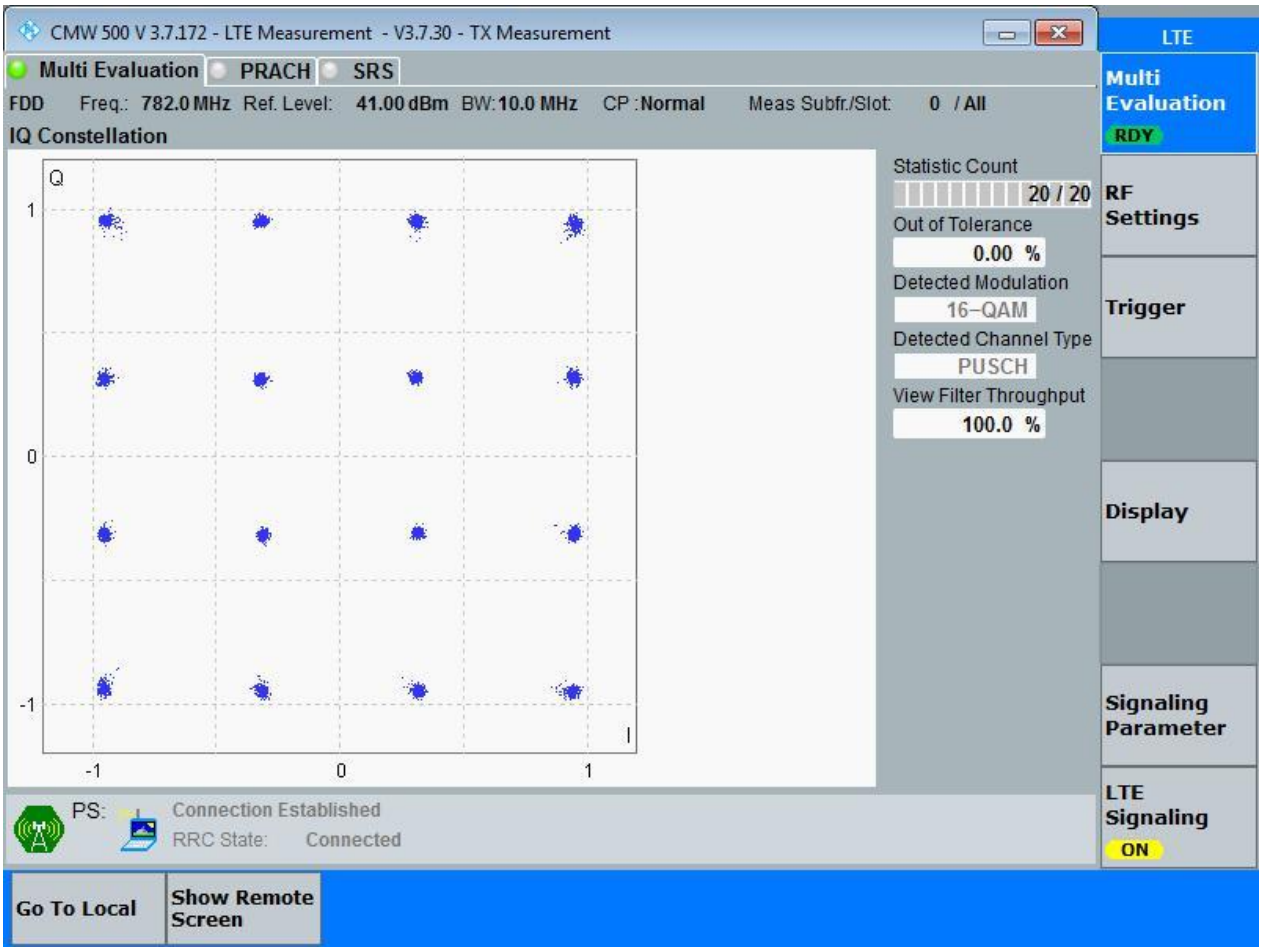
3.1.1.2.2 Test Bandwidth = 10MHz

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB50#0



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4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band13	LTE/TM1	5	LCH	RB25#0	4.51	4.97	Pass
			MCH	RB25#0	4.52	4.98	Pass
			HCH	RB25#0	4.50	4.98	Pass
		10	MCH	RB50#0	8.96	9.83	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.97	Pass
			MCH	RB25#0	4.52	4.96	Pass
			HCH	RB25#0	4.50	4.96	Pass
		10	MCH	RB50#0	8.97	9.86	Pass

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Part II - Test Plots

4.1 For LTE

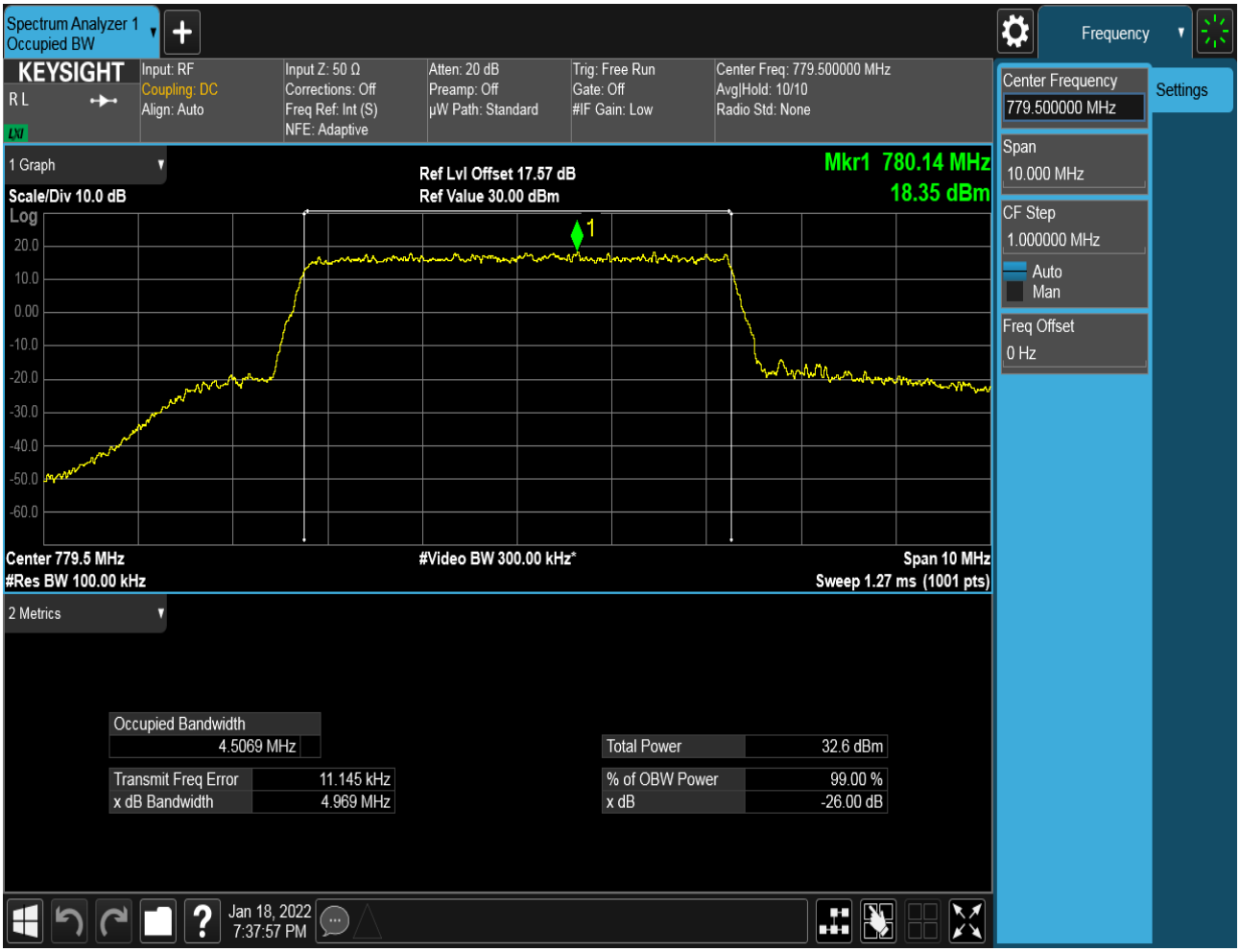
4.1.1 Test Band = Band13

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5MHz

####### 4.1.1.1.1.1 Test Channel = LCH

######## 4.1.1.1.1.1.1 Test RB = RB25#0



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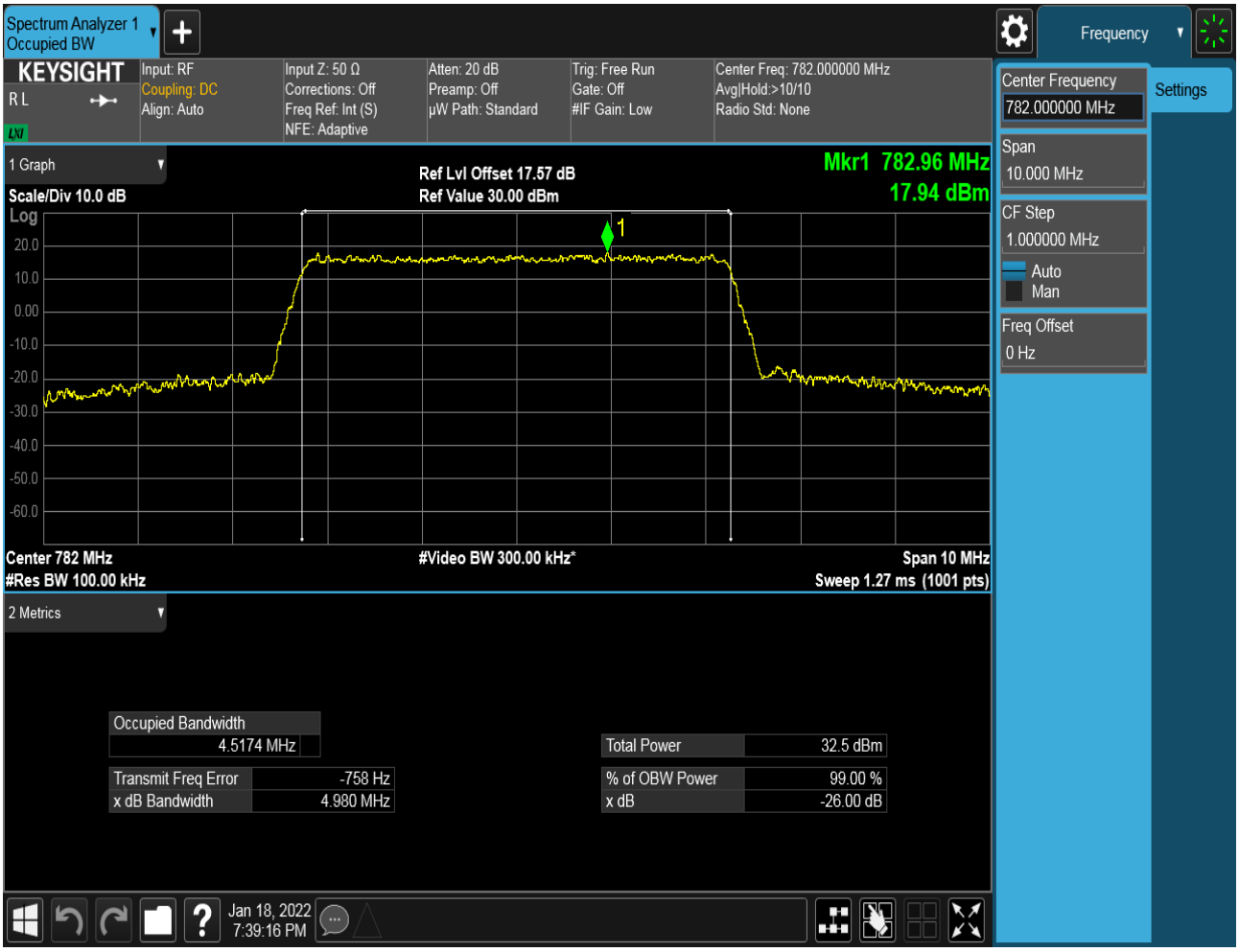
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0



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4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

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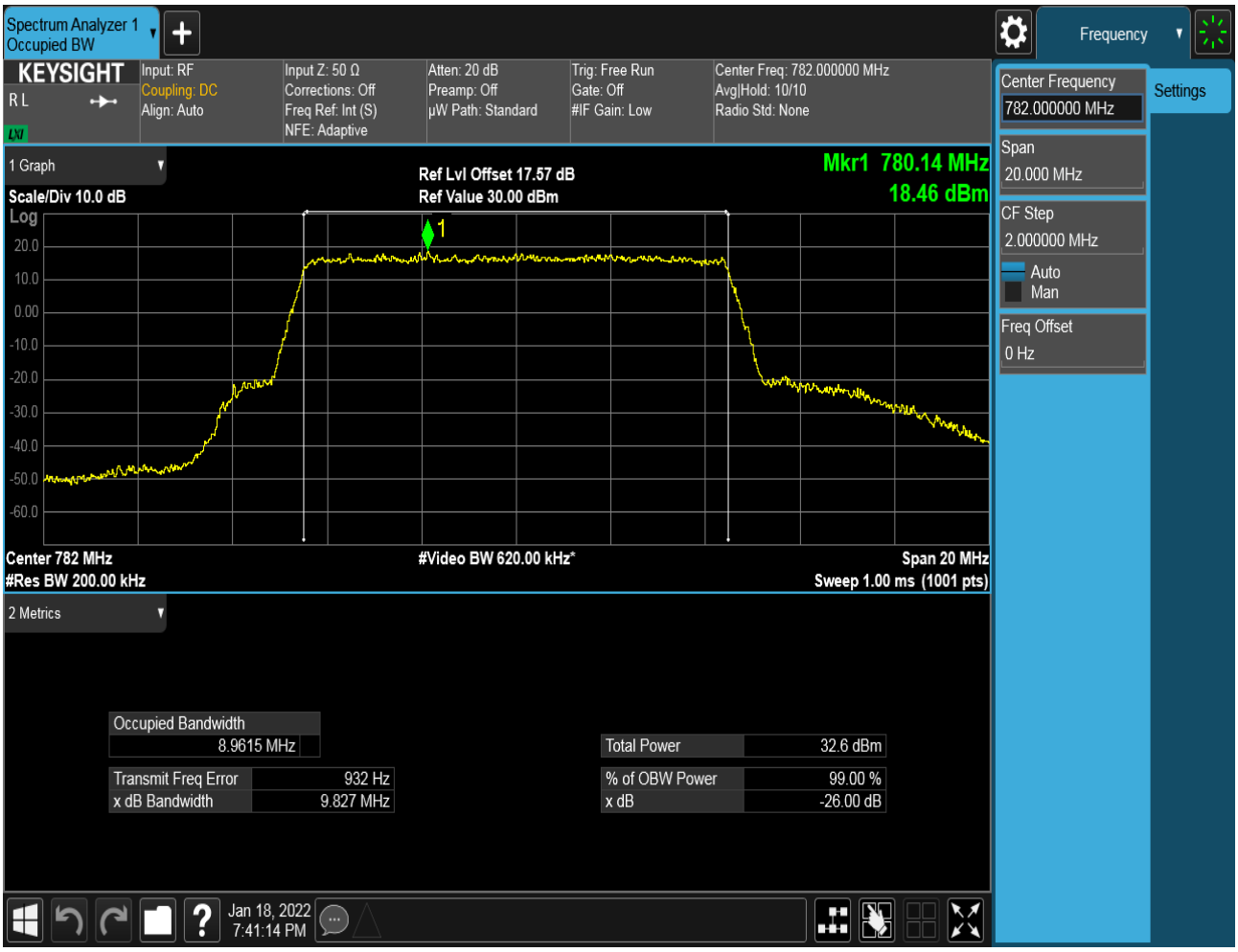
4.1.1.1.2 Test Bandwidth = 10MHz

4.1.1.1.2.1 Test Channel = MCH

4.1.1.1.2.1.1 Test RB = RB50#0



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4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5MHz

4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0

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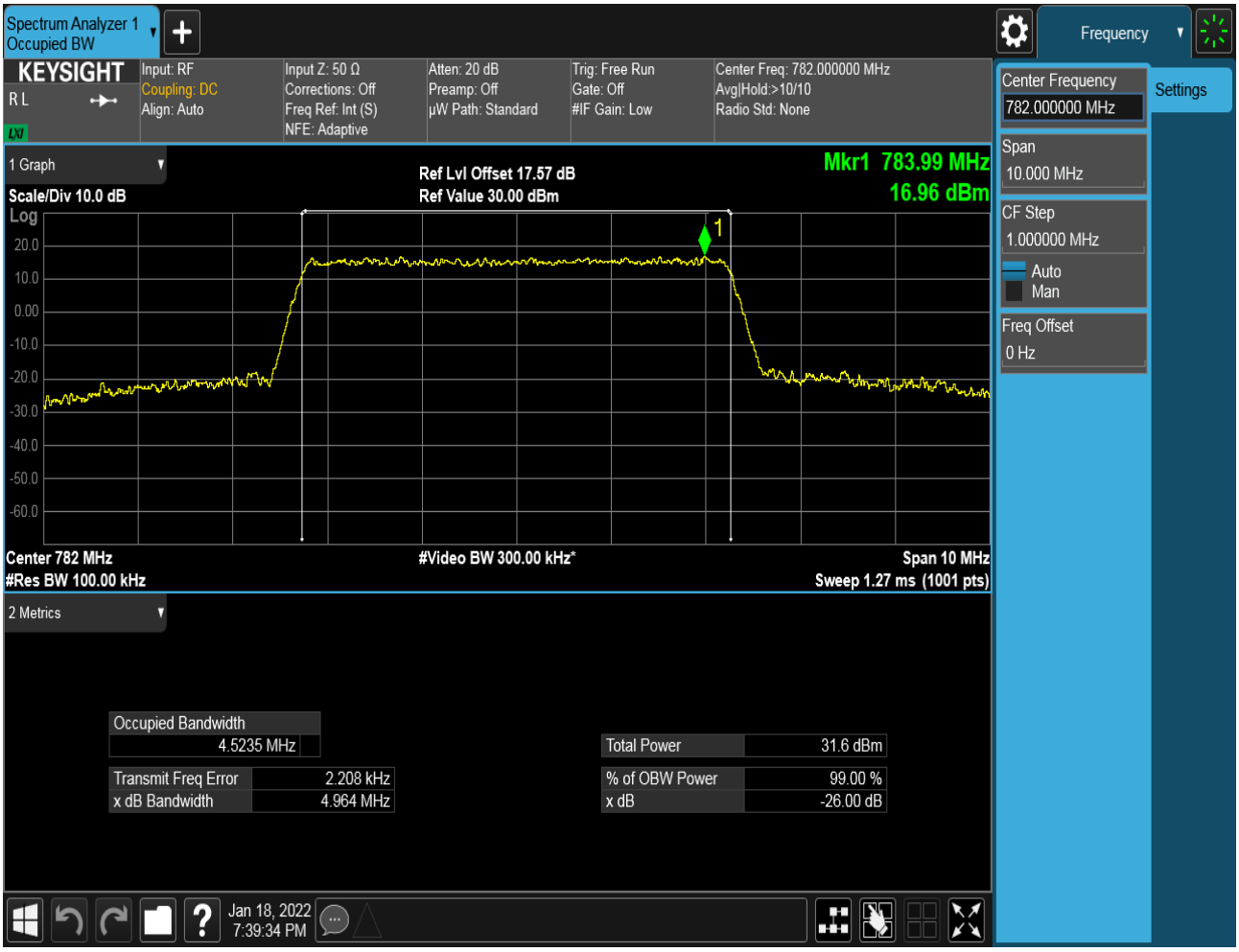
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB25#0



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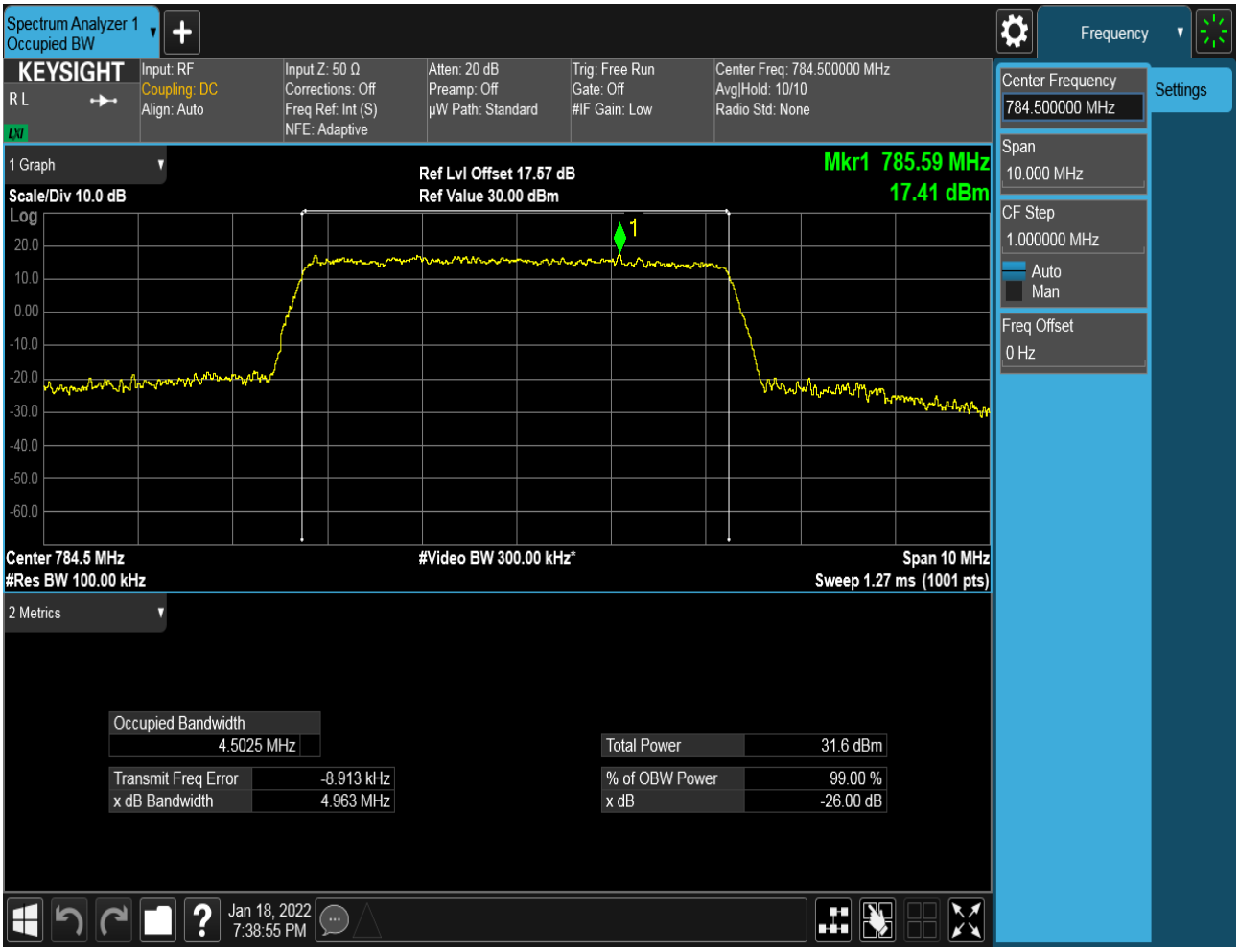
4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0



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4.1.1.2.2 Test Bandwidth = 10MHz

4.1.1.2.2.1 Test Channel = MCH

4.1.1.2.2.1.1 Test RB = RB50#0

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5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

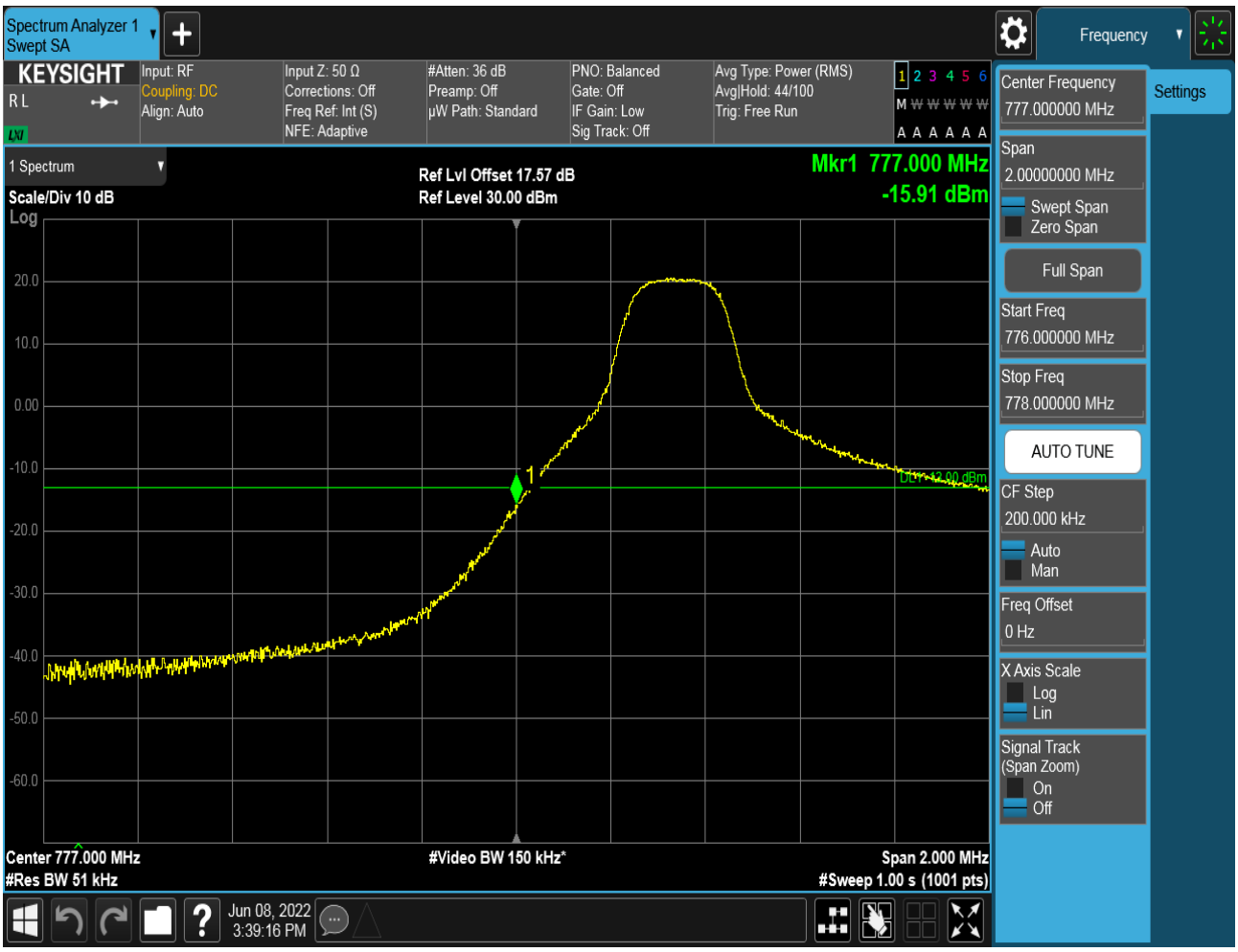
5.1.1 Test Band = Band13

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.3 Test Bandwidth = 5MHz

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0



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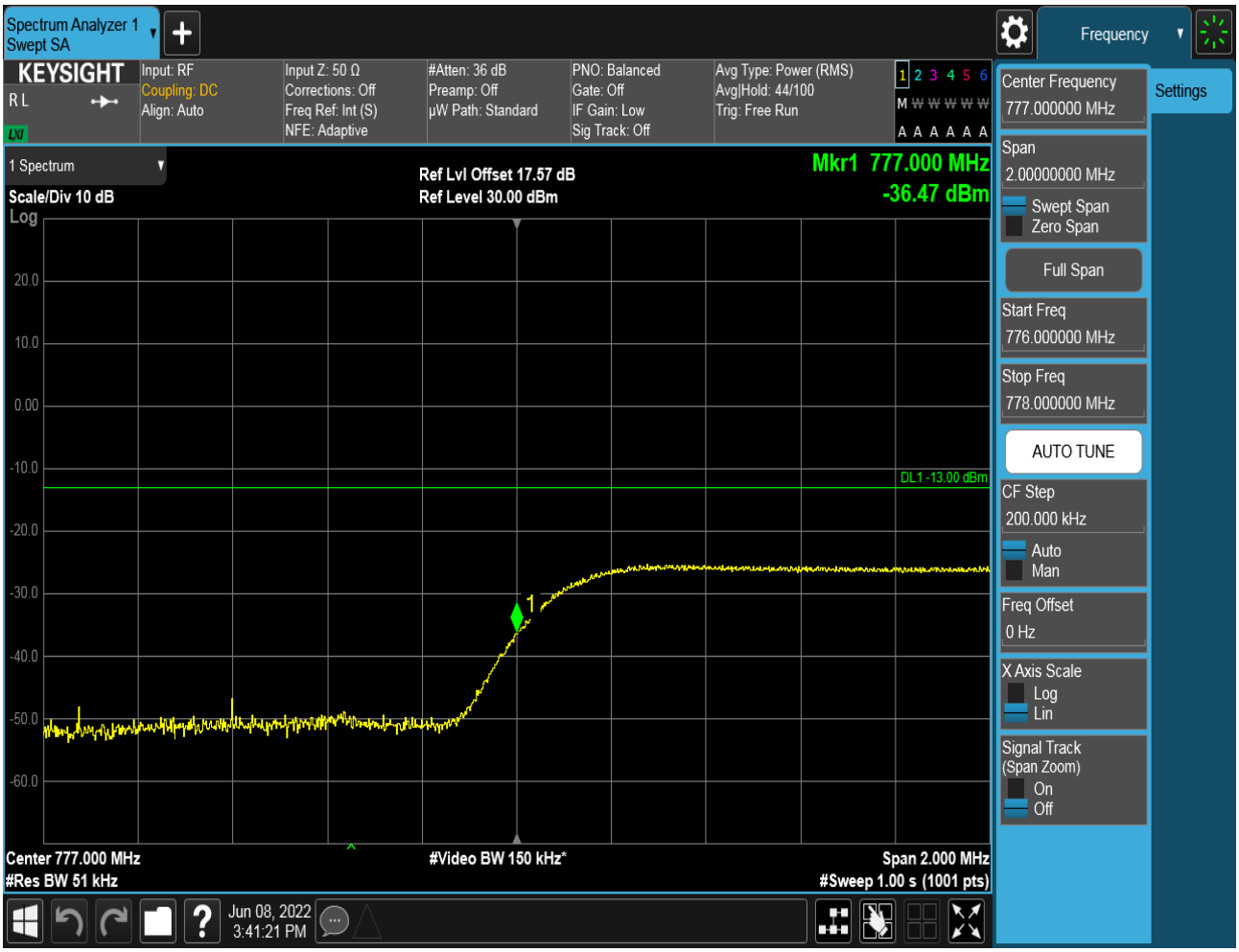
5.1.1.1.3.1.2 Test RB = RB1#24



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5.1.1.1.3.1.3 Test RB = RB12#6

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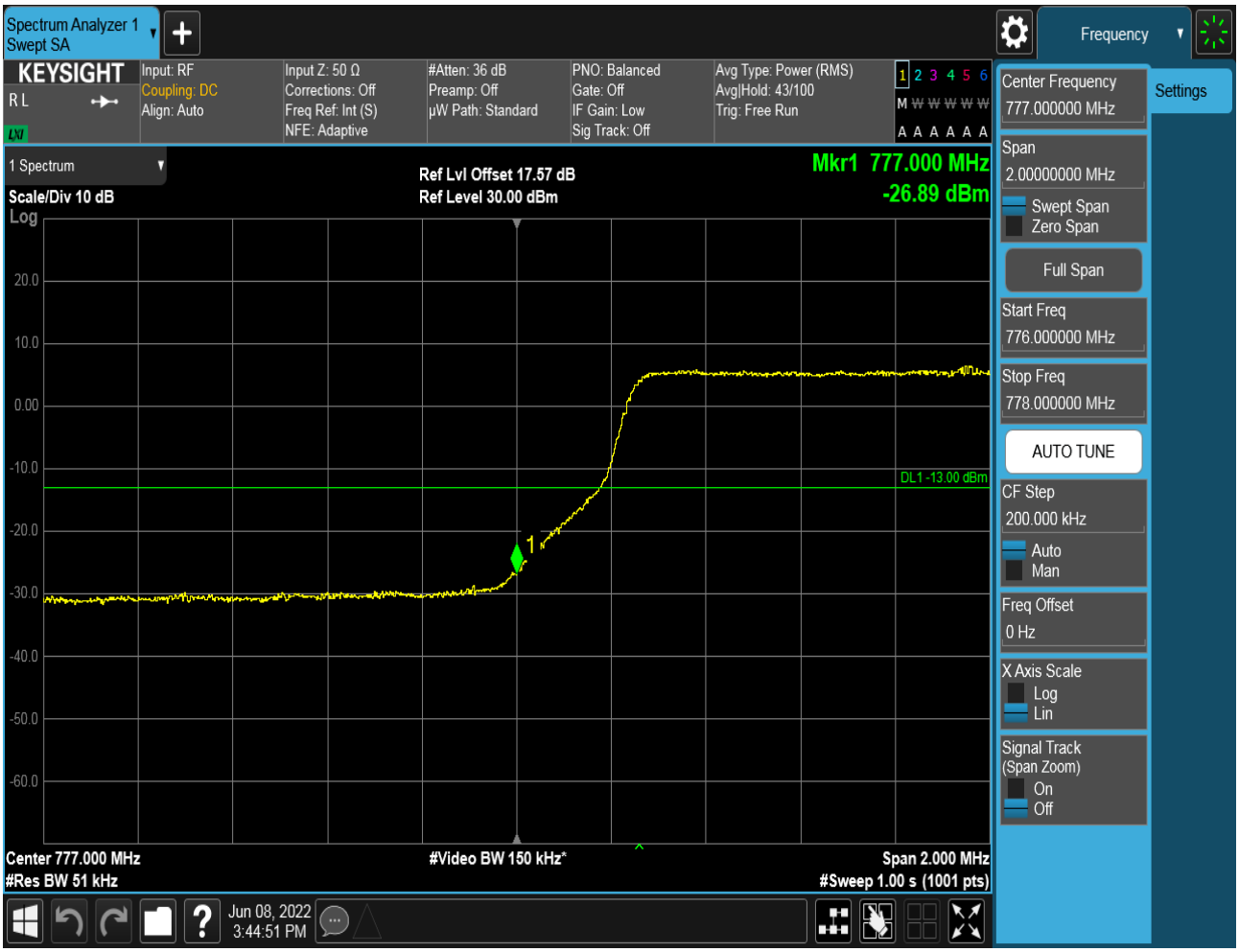
5.1.1.1.3.1.4 Test RB = RB25#0



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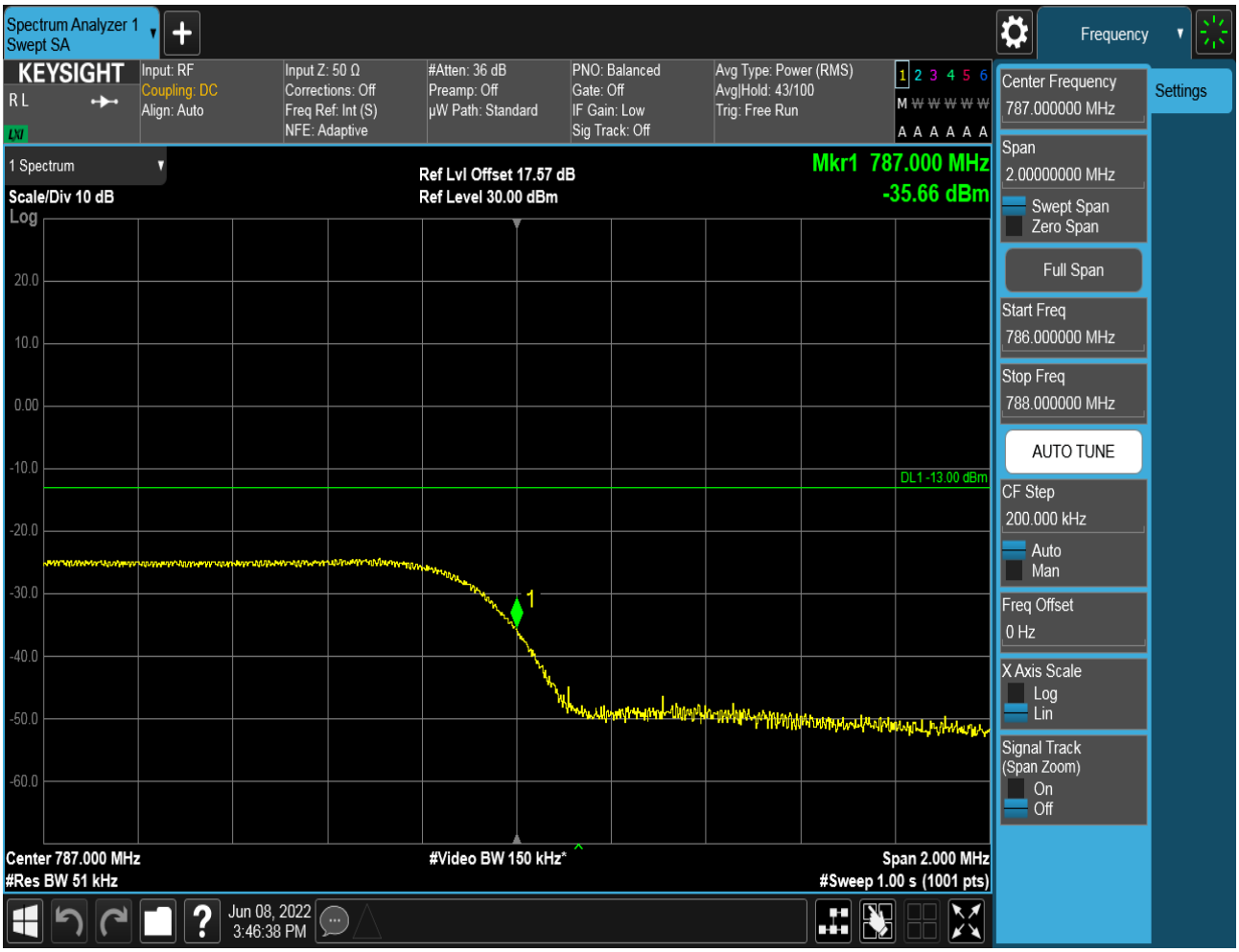
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0



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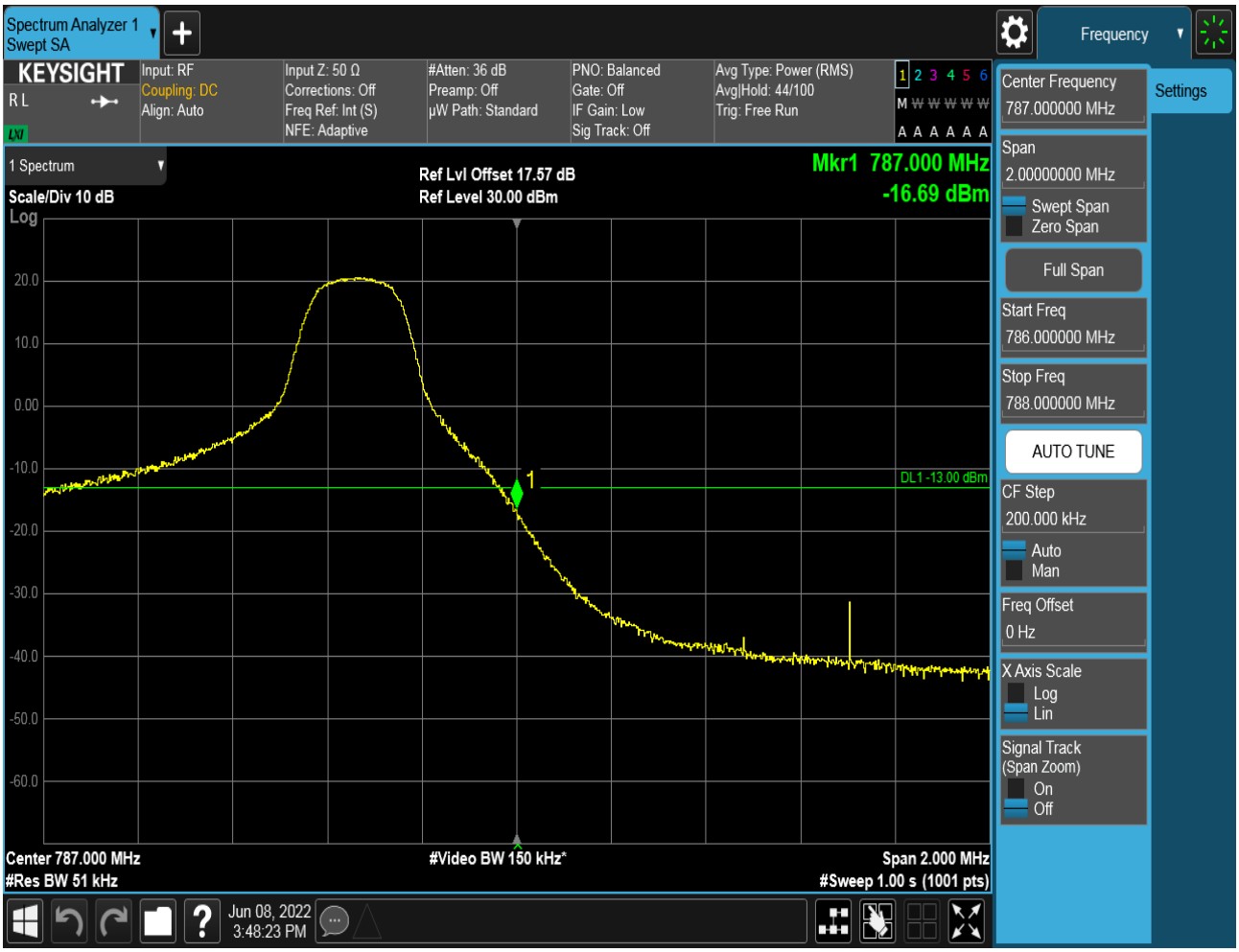
5.1.1.1.3.2.2 Test RB = RB1#24



5.1.1.1.3.2.3 Test RB = RB12#6

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5.1.1.1.3.2.4 Test RB = RB25#0

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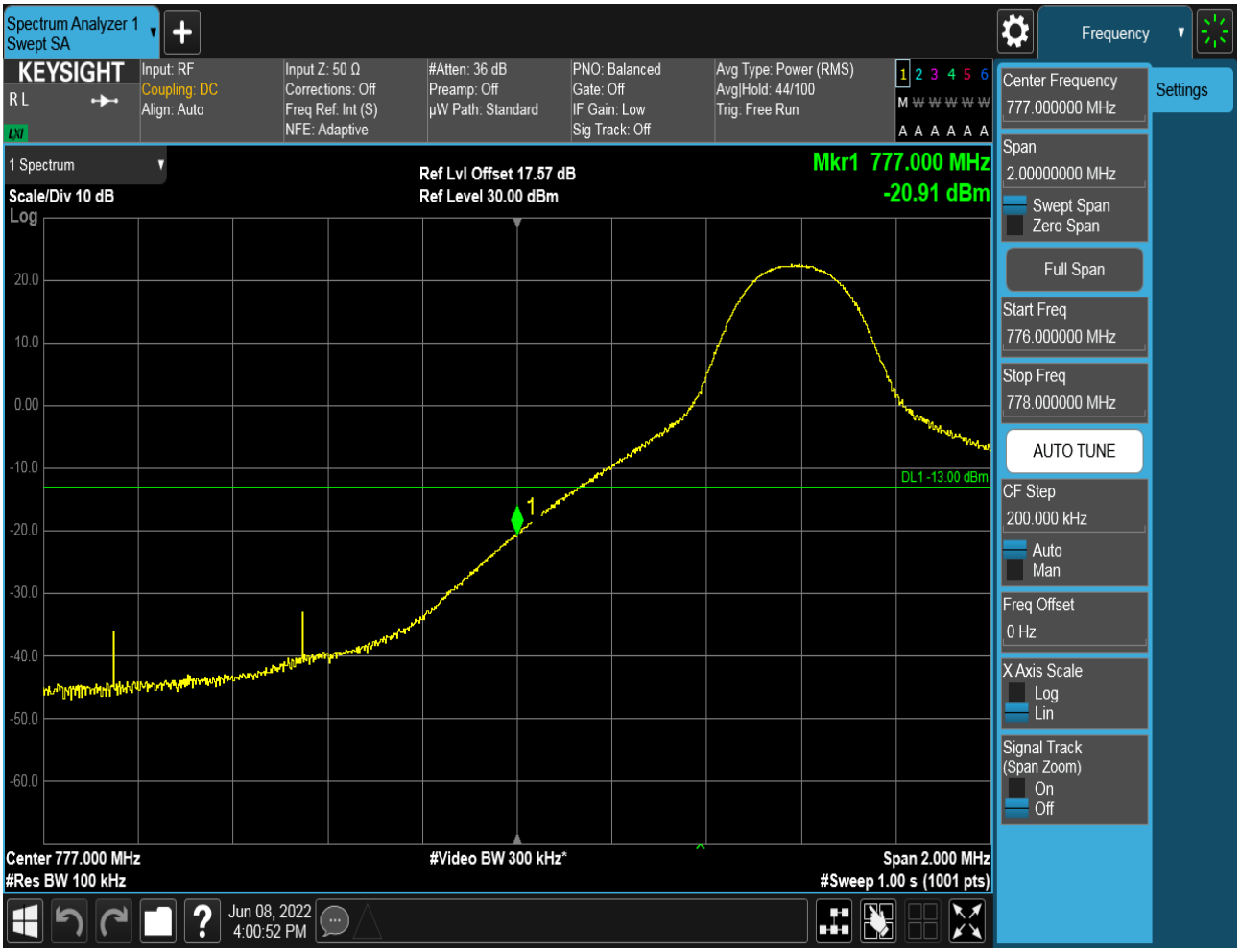
5.1.1.1.4 Test Bandwidth = 10MHz

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0



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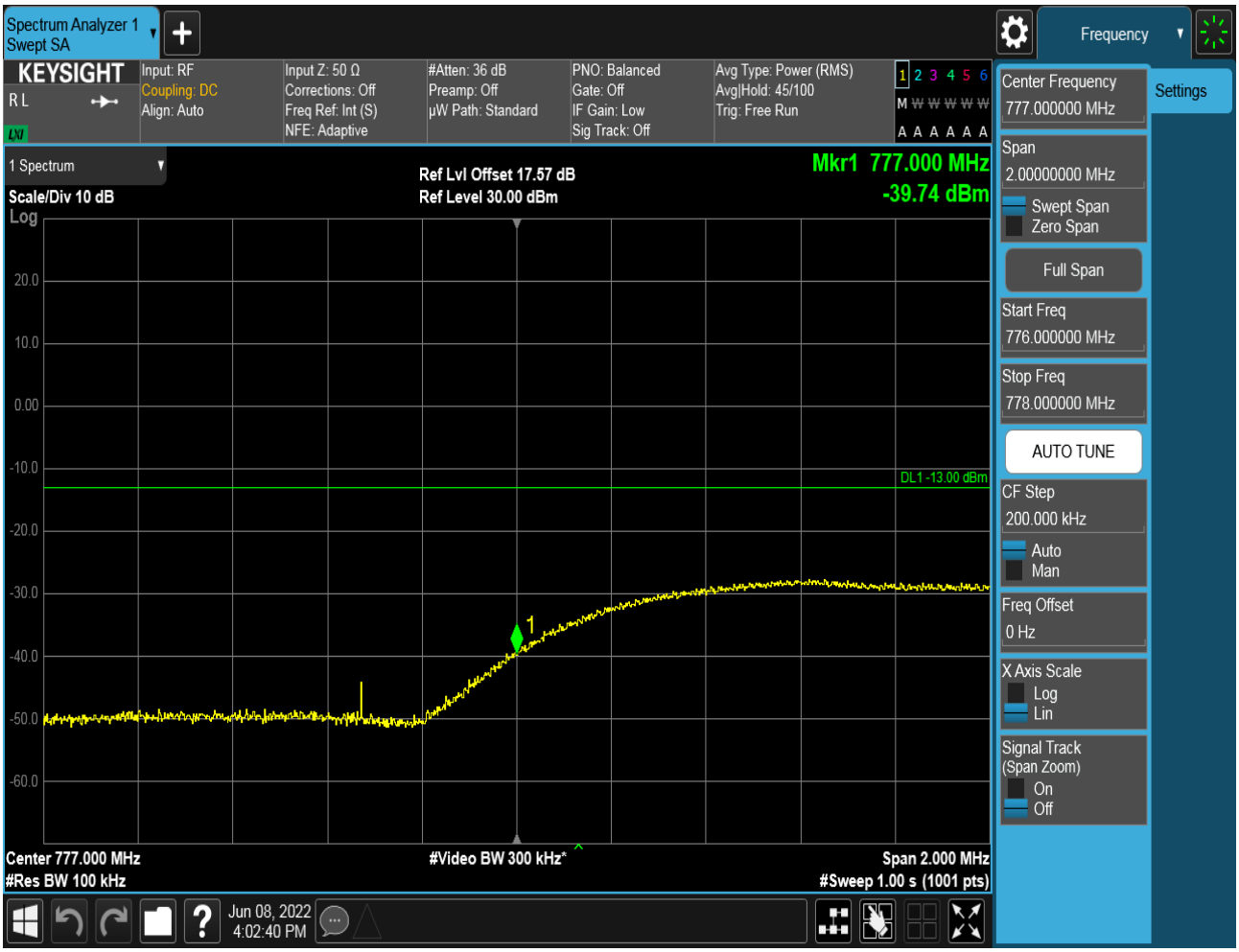
5.1.1.1.4.1.2 Test RB = RB1#49



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5.1.1.1.4.1.3 Test RB = RB25#13

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5.1.1.1.4.1.4 Test RB = RB50#0

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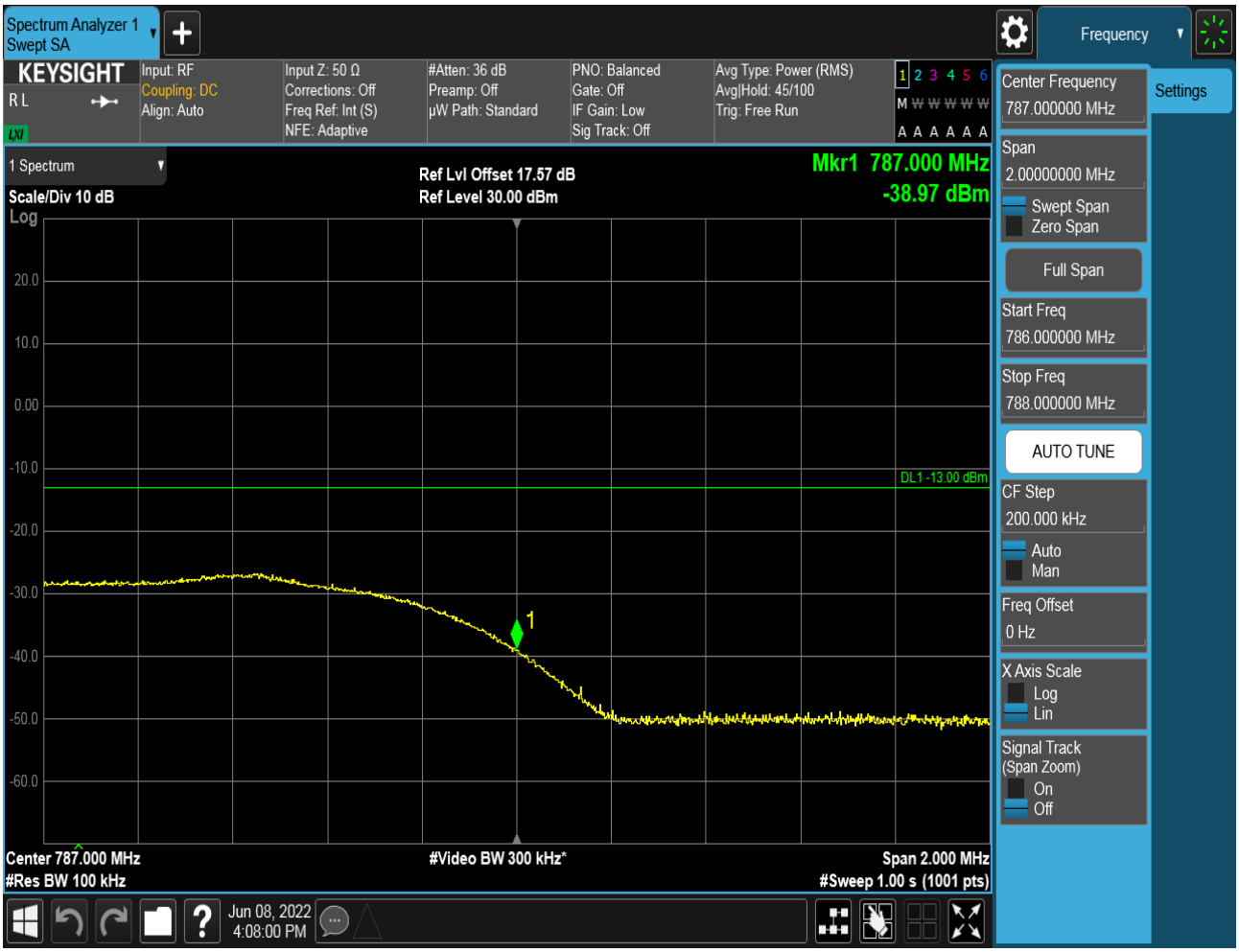
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



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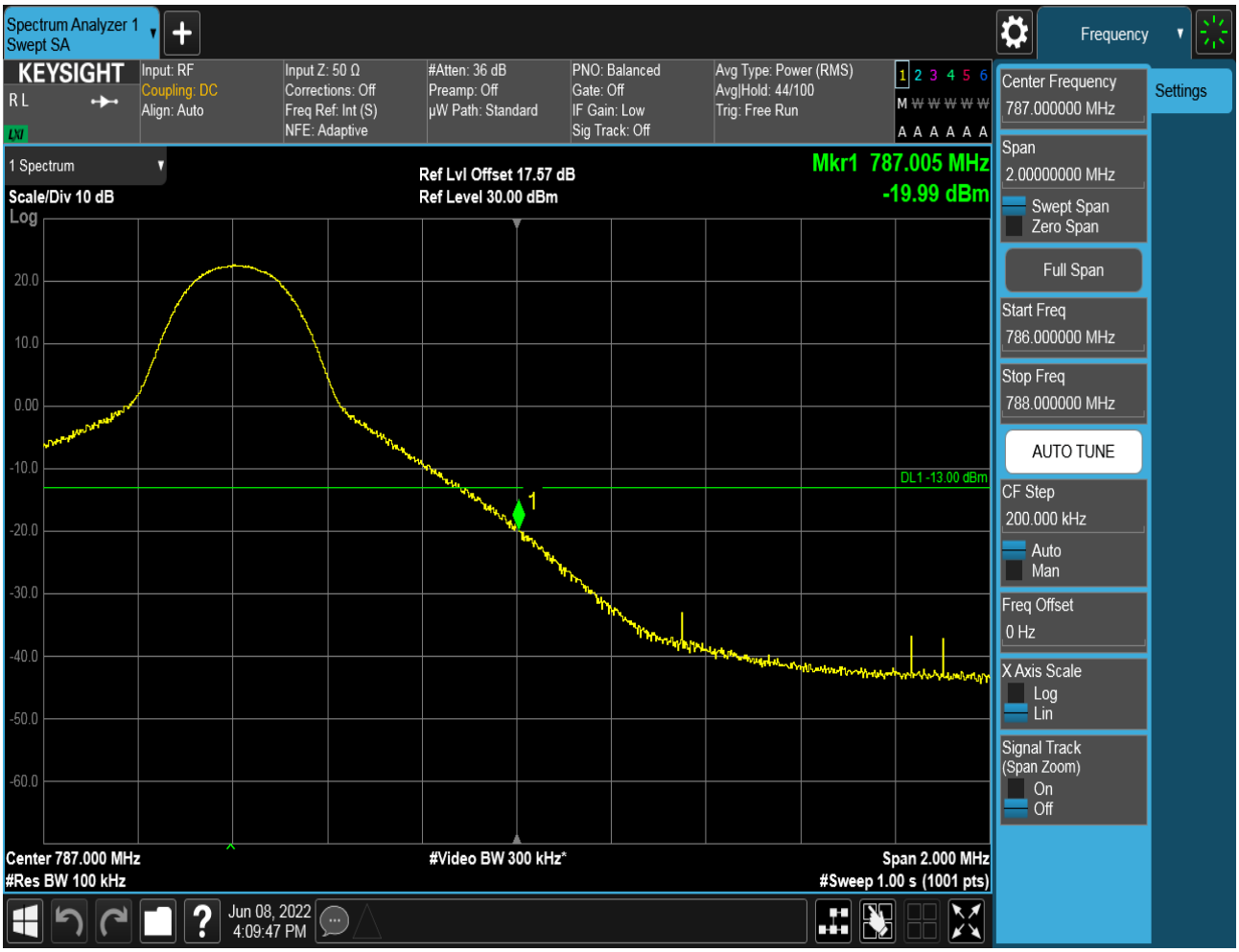
5.1.1.1.4.2.2 Test RB = RB1#49



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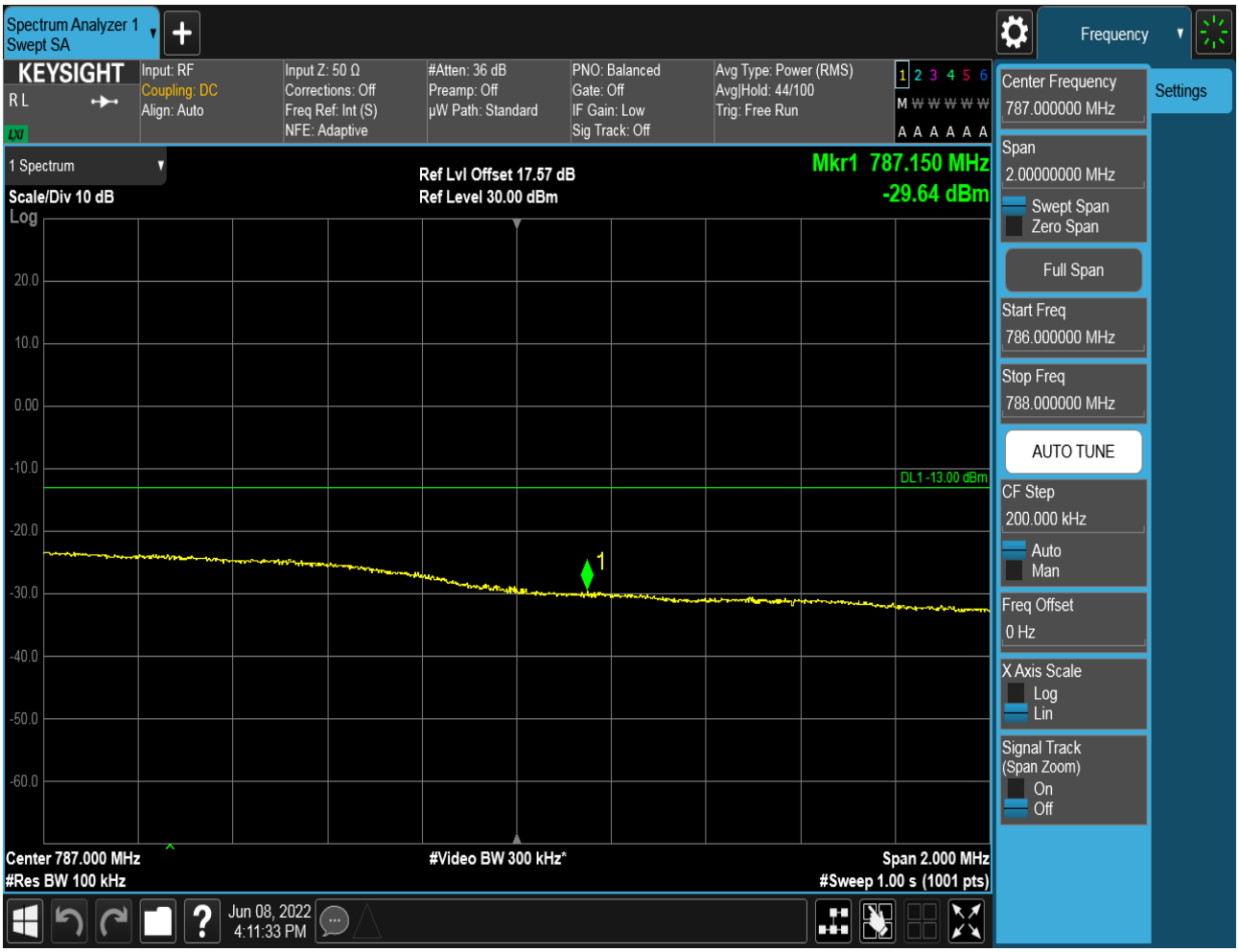
5.1.1.1.4.2.3 Test RB = RB25#13



5.1.1.1.4.2.4 Test RB = RB50#0

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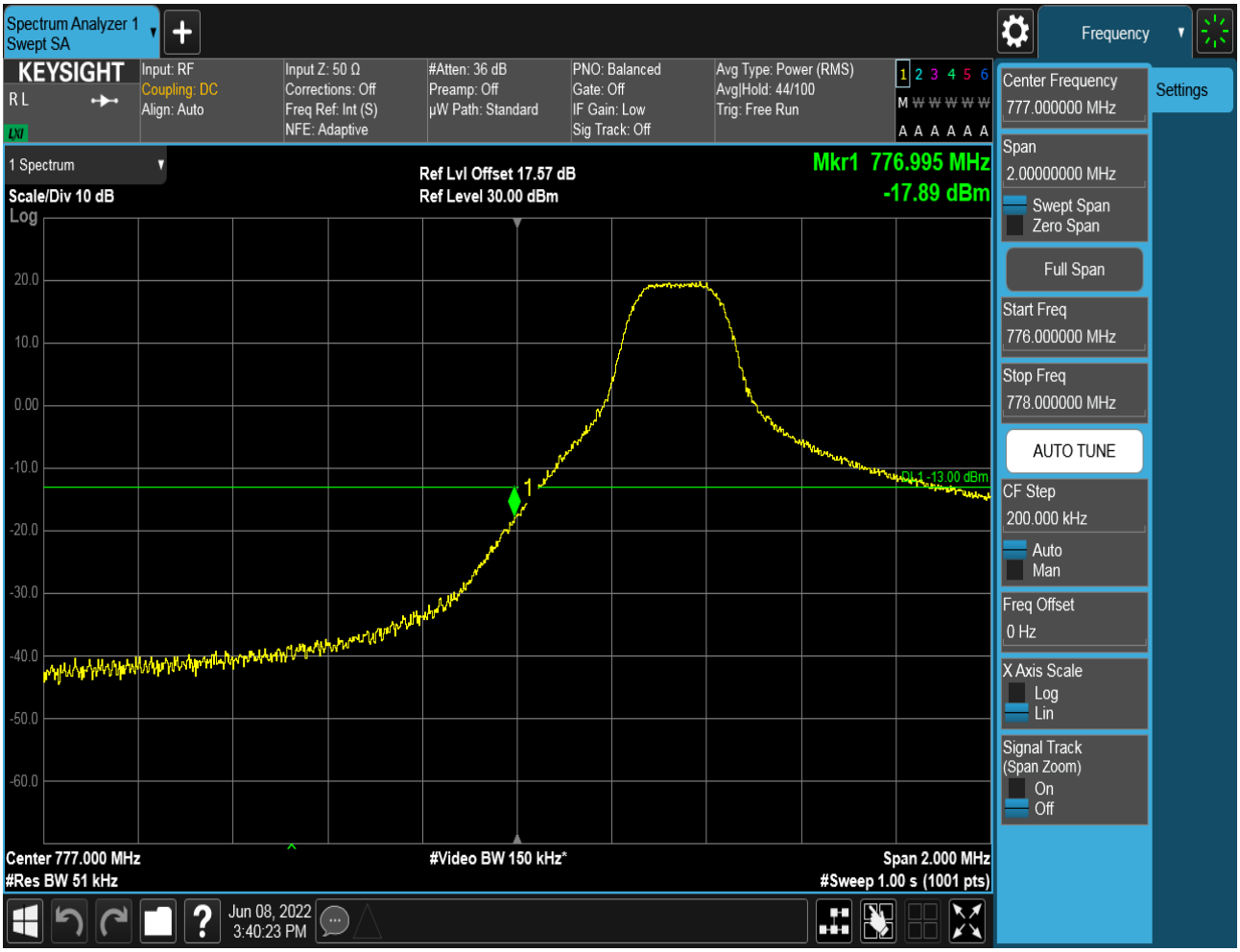
5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.3 Test Bandwidth = 5MHz

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0



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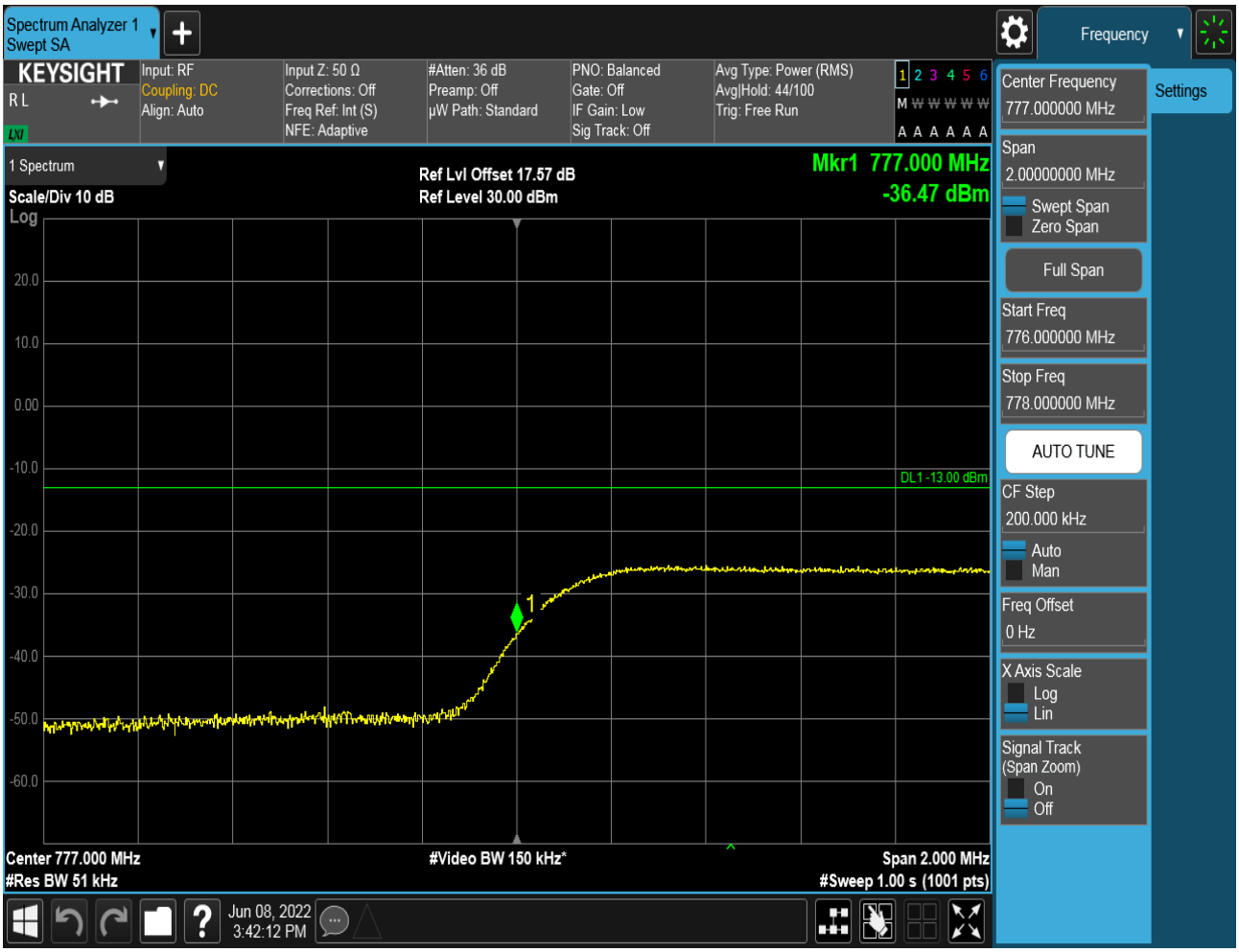
5.1.1.2.3.1.2 Test RB = RB1#24



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5.1.1.2.3.1.3 Test RB = RB12#6

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5.1.1.2.3.1.4 Test RB = RB25#0

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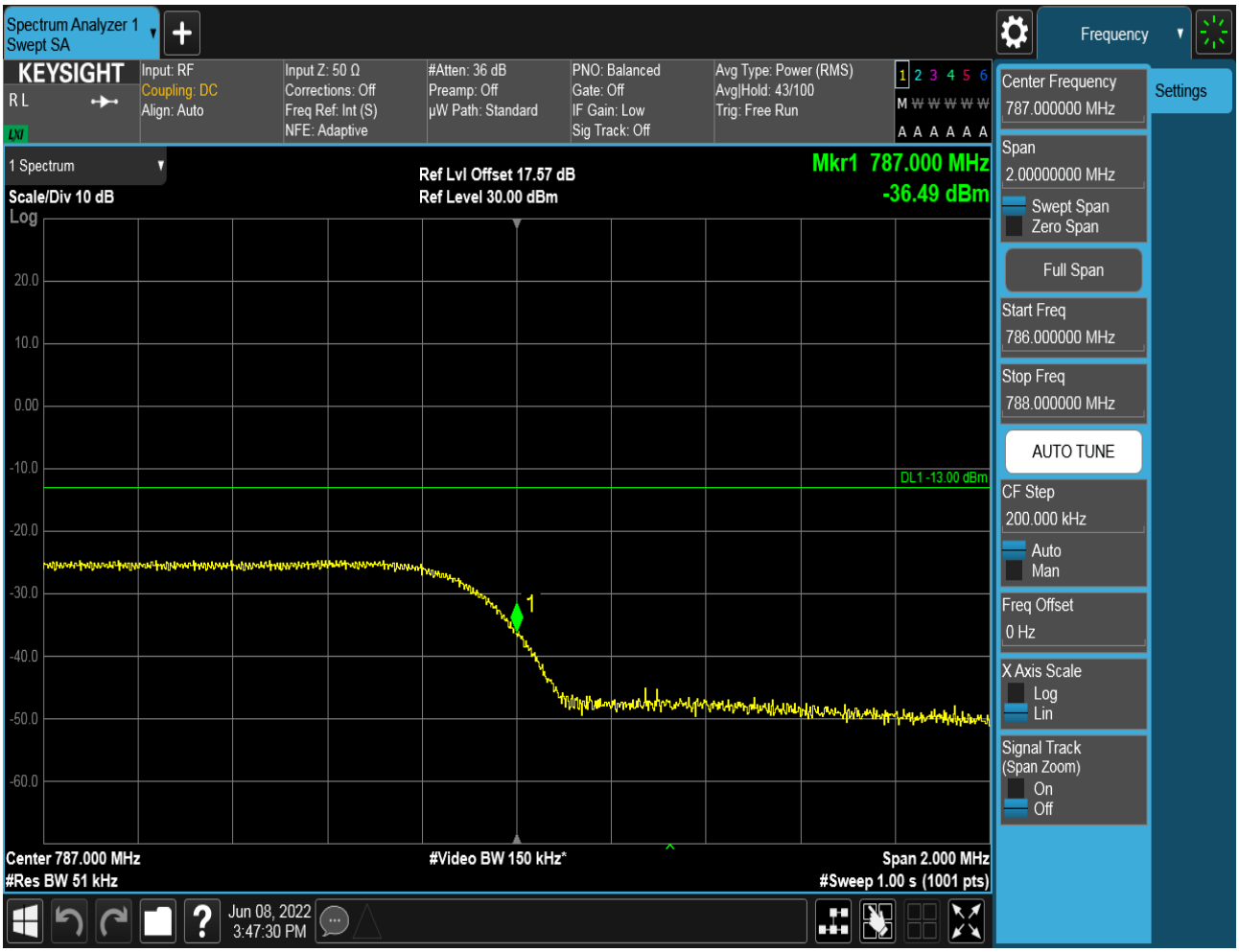
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



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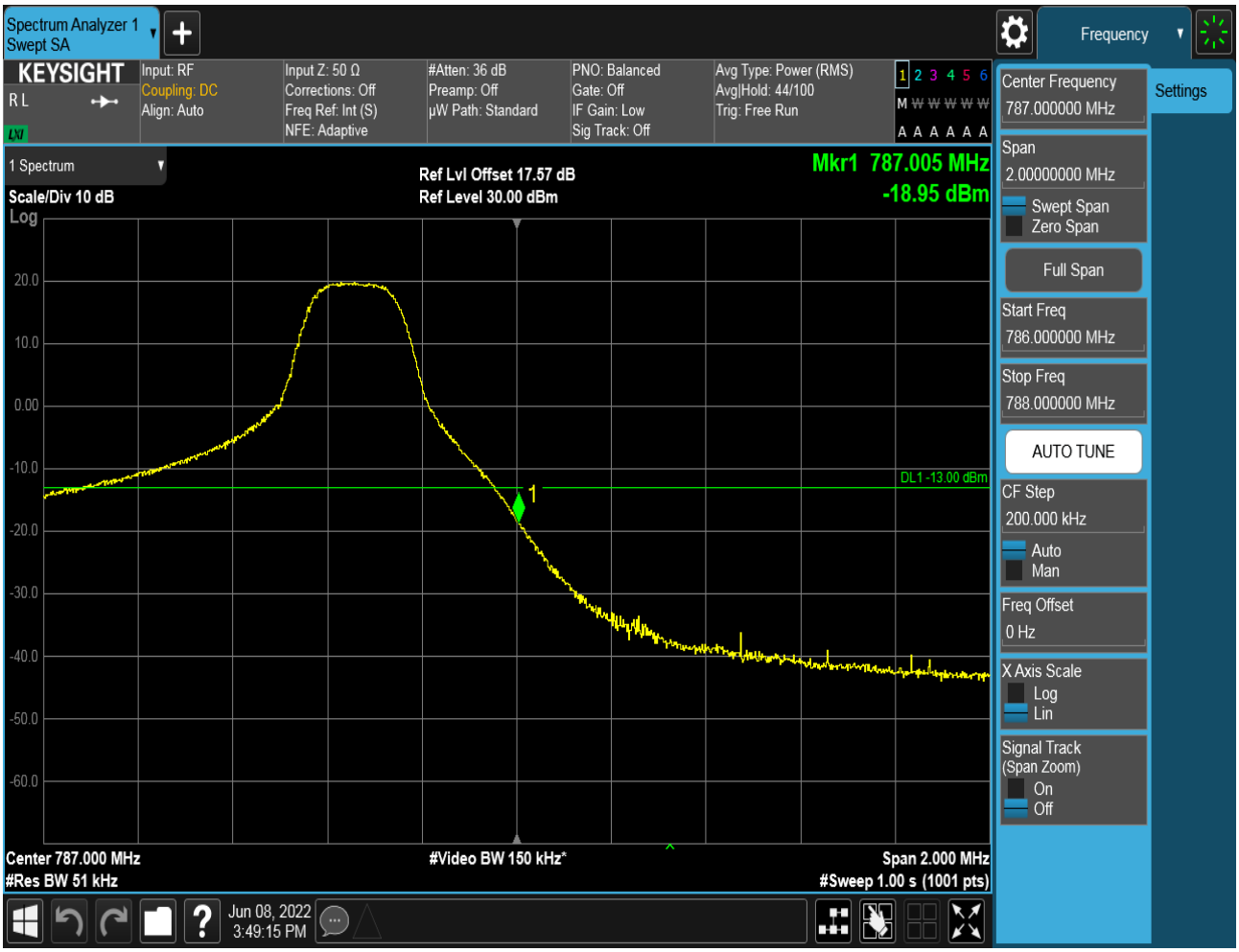
5.1.1.2.3.2.2 Test RB = RB1#24



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5.1.1.2.3.2.3 Test RB = RB12#6

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5.1.1.2.3.2.4 Test RB = RB25#0

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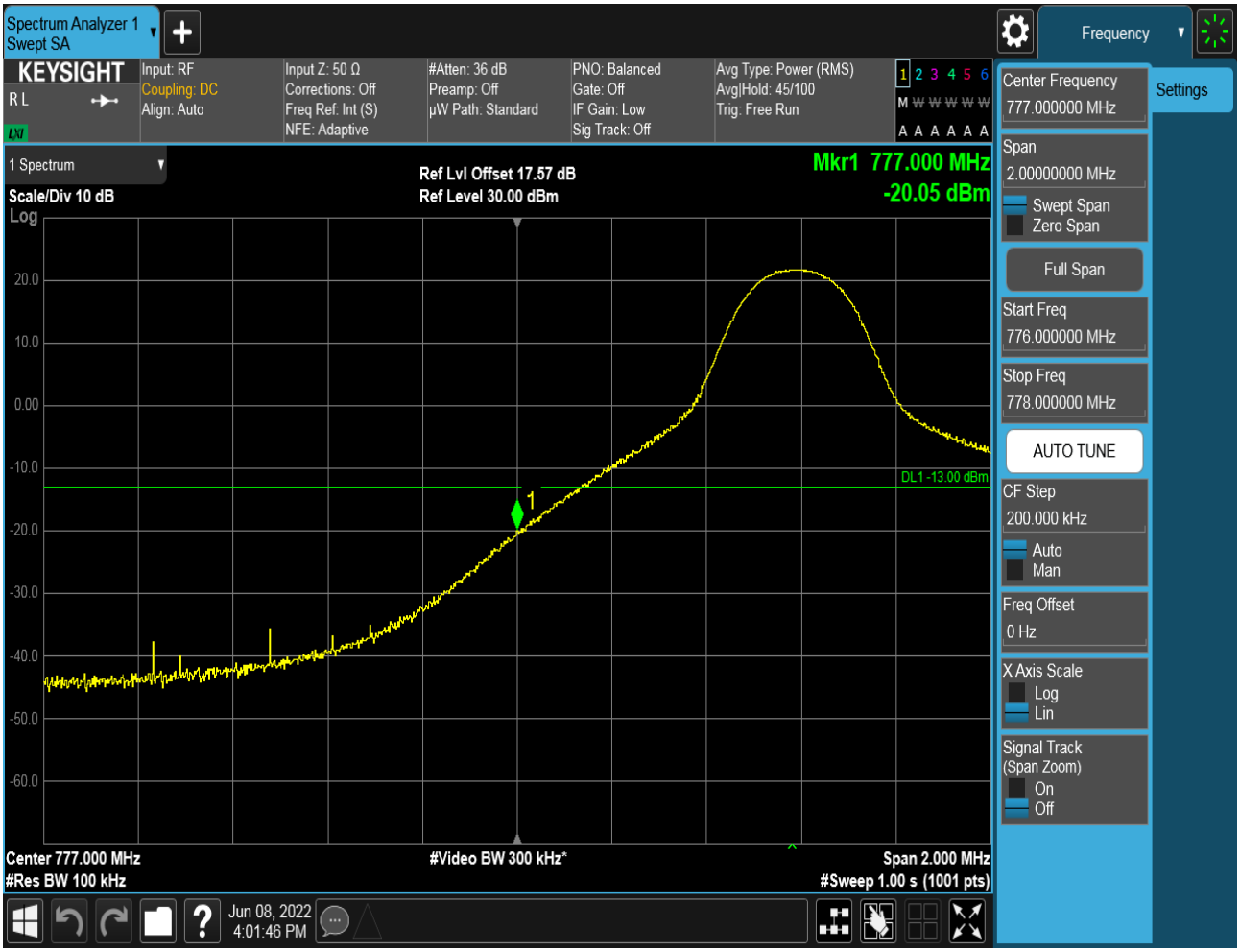
5.1.1.2.4 Test Bandwidth = 10MHz

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



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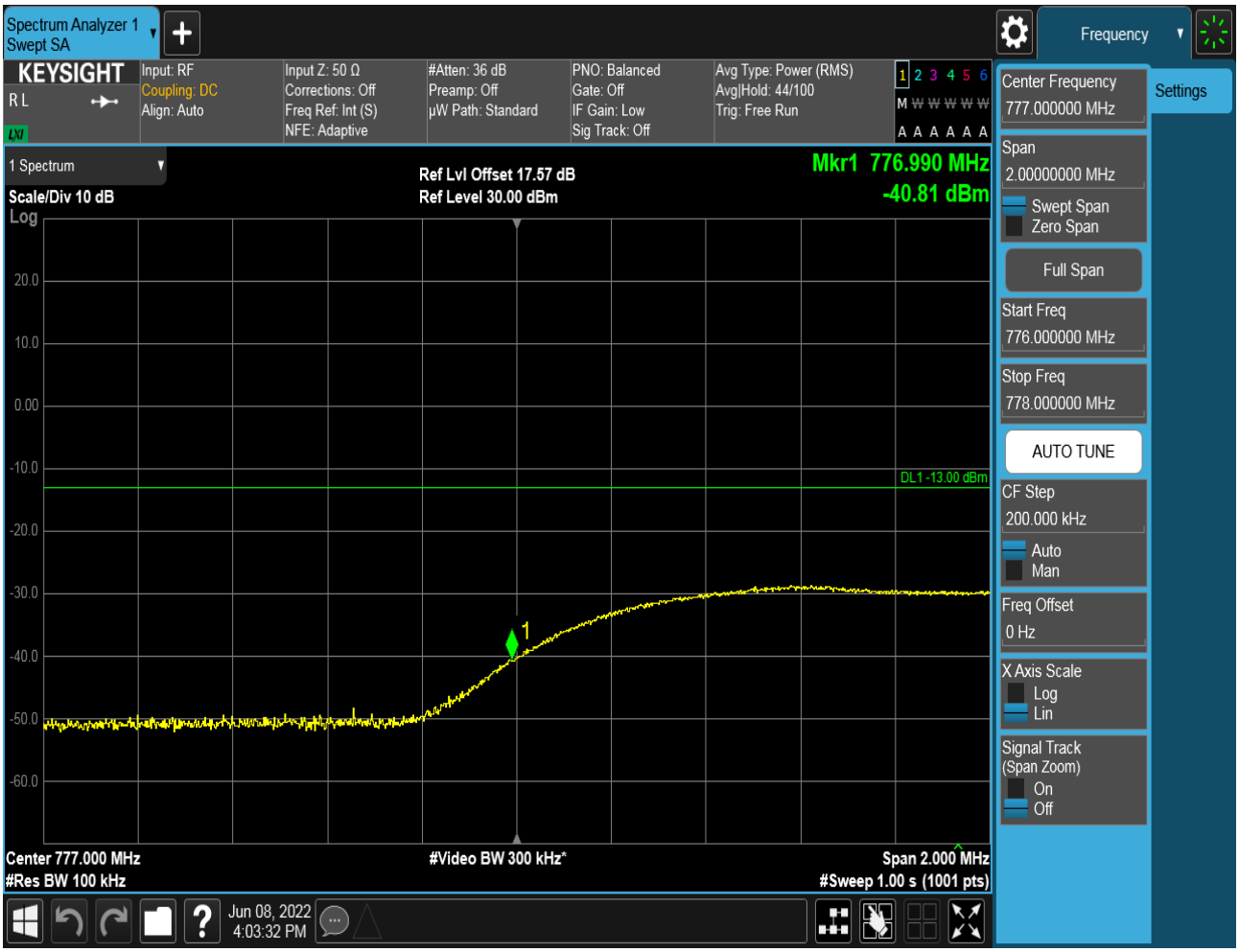
5.1.1.2.4.1.2 Test RB = RB1#49



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5.1.1.2.4.1.3 Test RB = RB25#13

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5.1.1.2.4.1.4 Test RB = RB50#0

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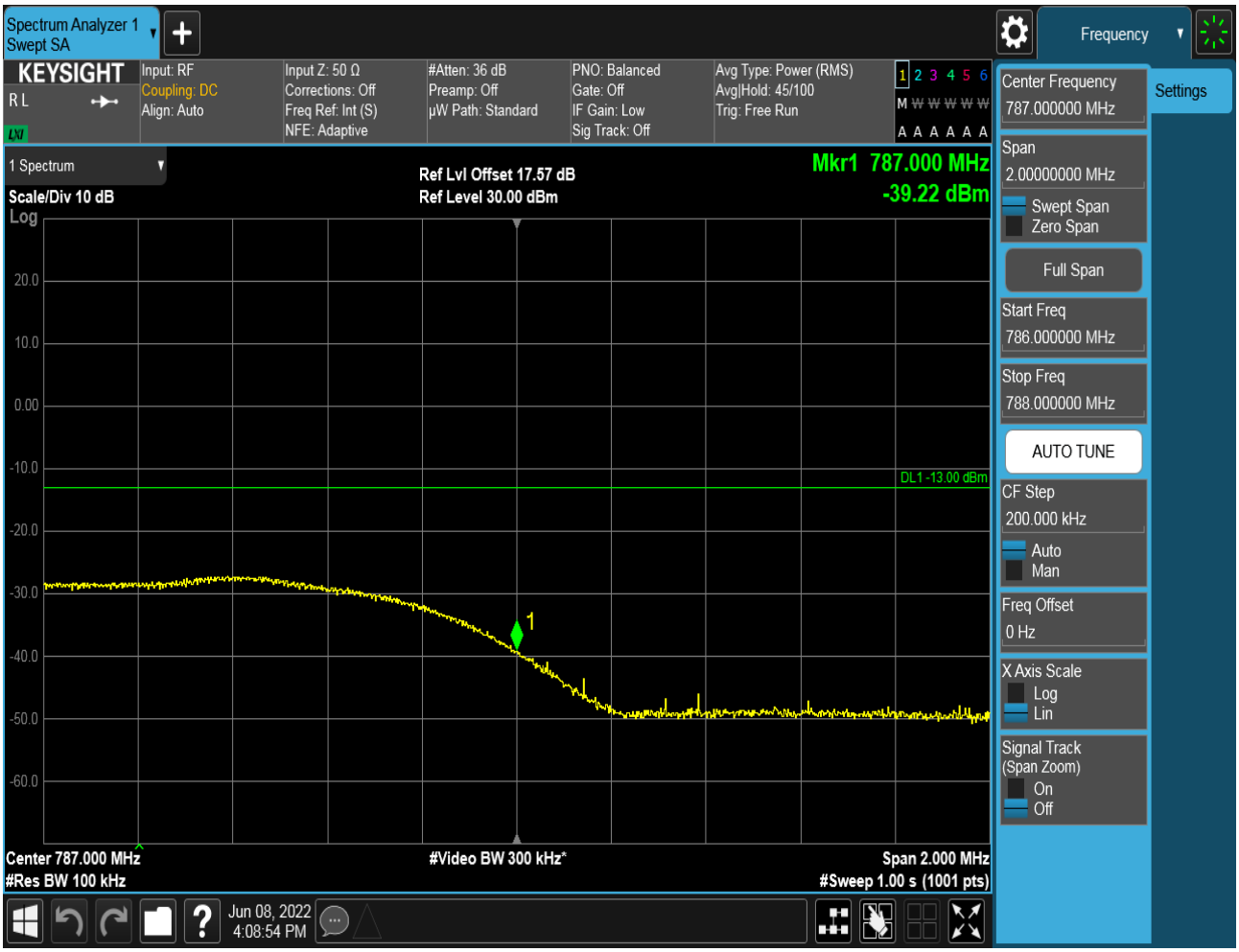
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



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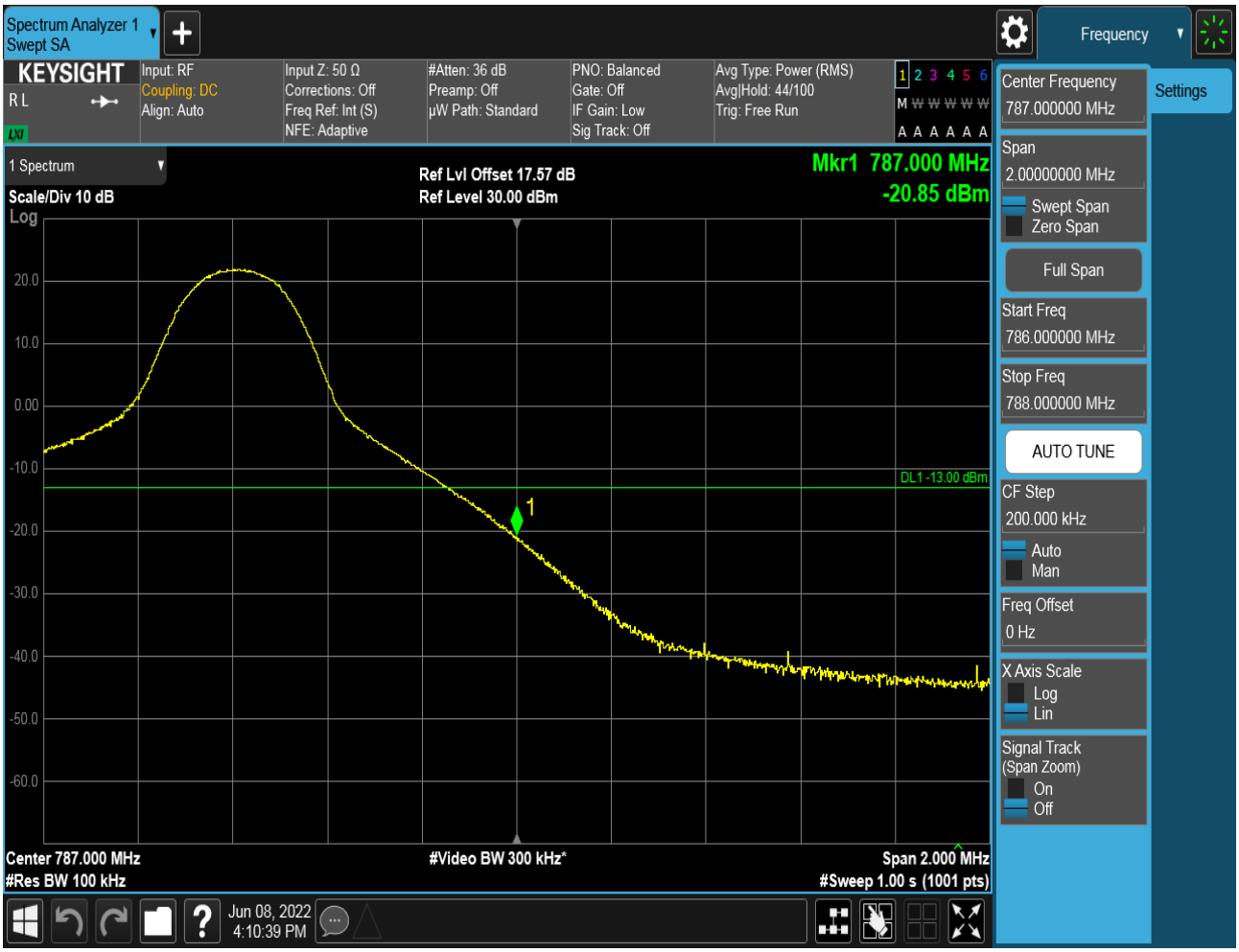
5.1.1.2.4.2.2 Test RB = RB1#49



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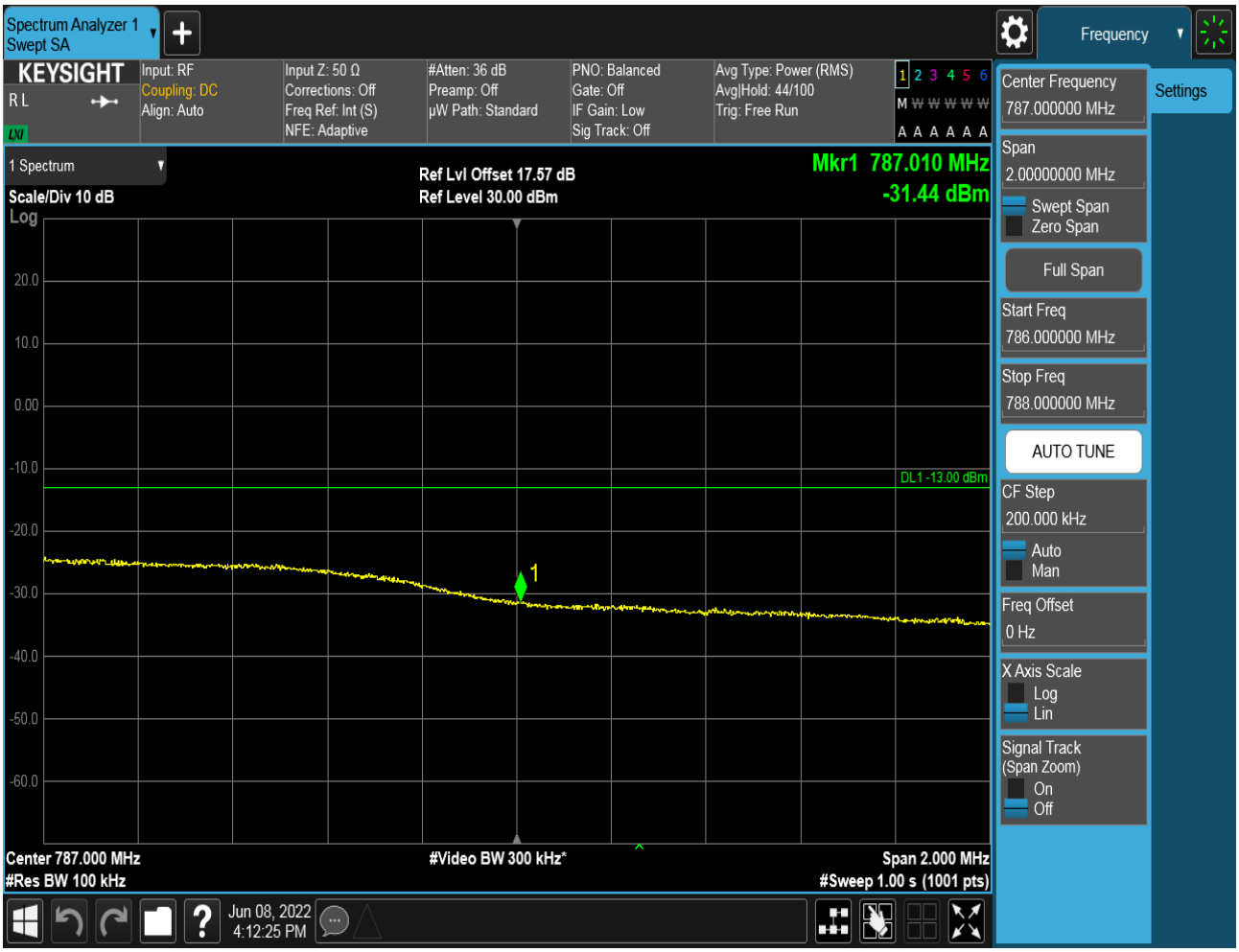
5.1.1.2.4.2.3 Test RB = RB25#13



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5.1.1.2.4.2.4 Test RB = RB50#0

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6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = Band13

6.1.1.1 Test Mode = LTE/TM1

6.2.1.1.3 Test Bandwidth = 5MHz

6.2.1.1.3.1 Test Channel = LCH

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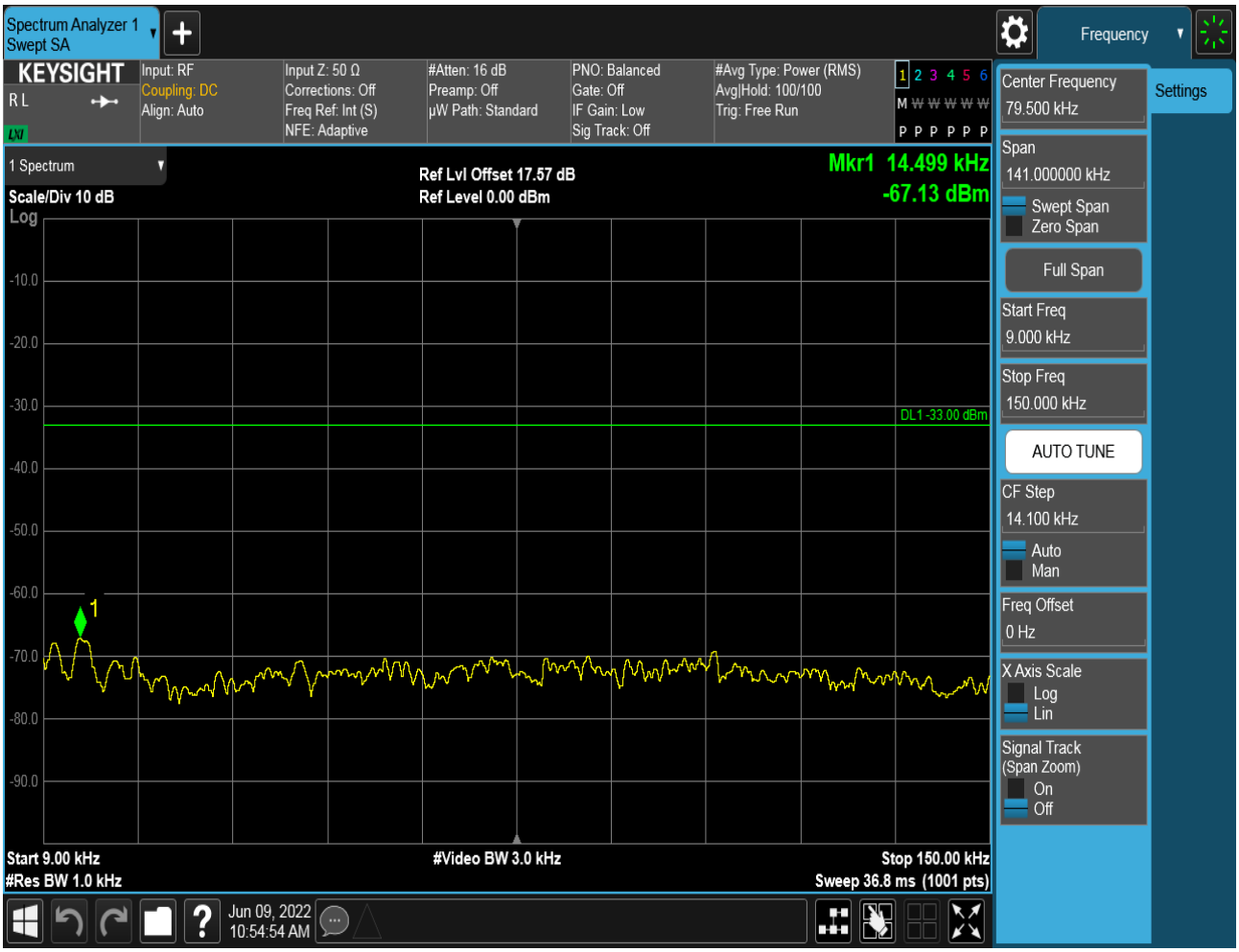
6.2.1.1.3.1.1 Test RB = RB1#0



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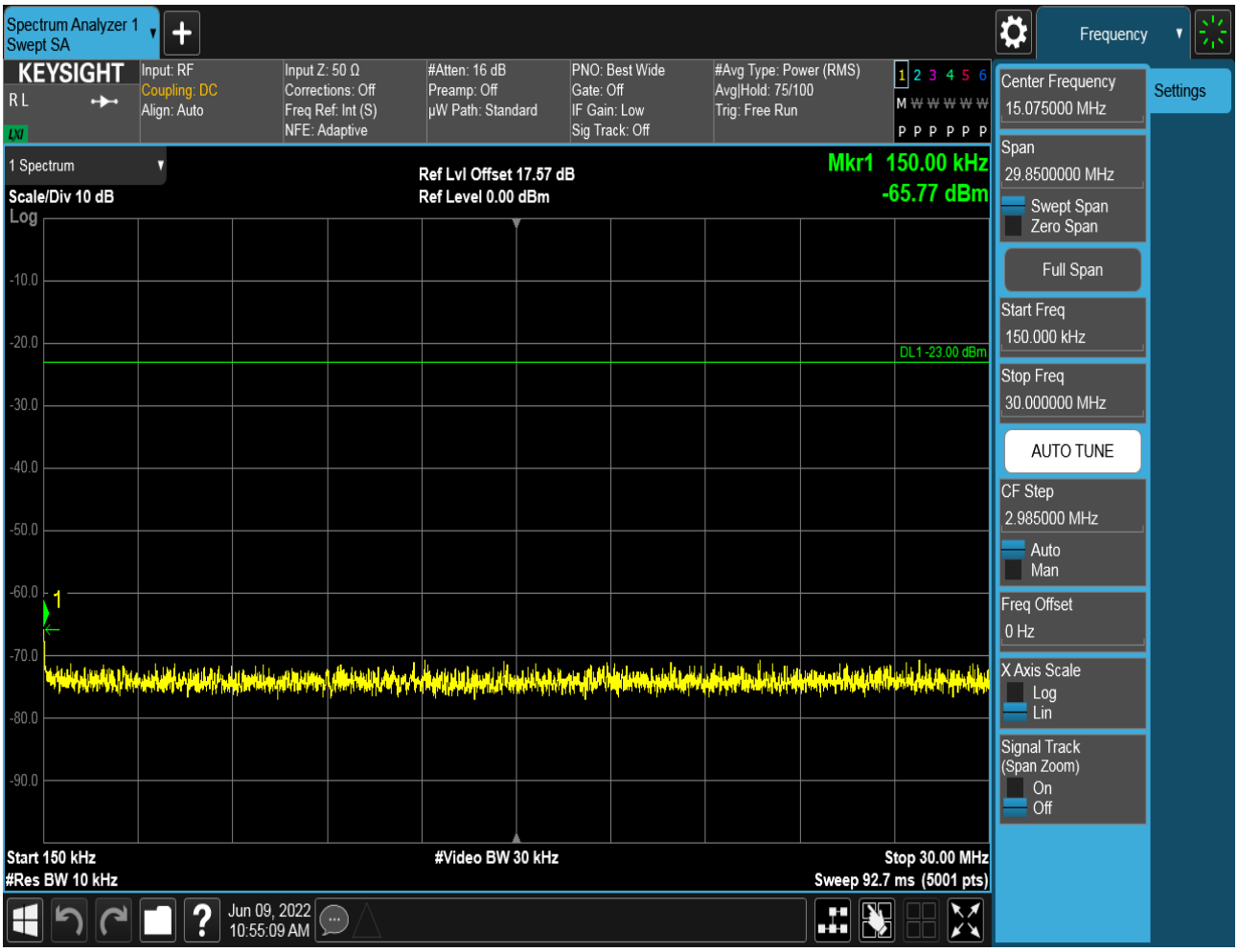

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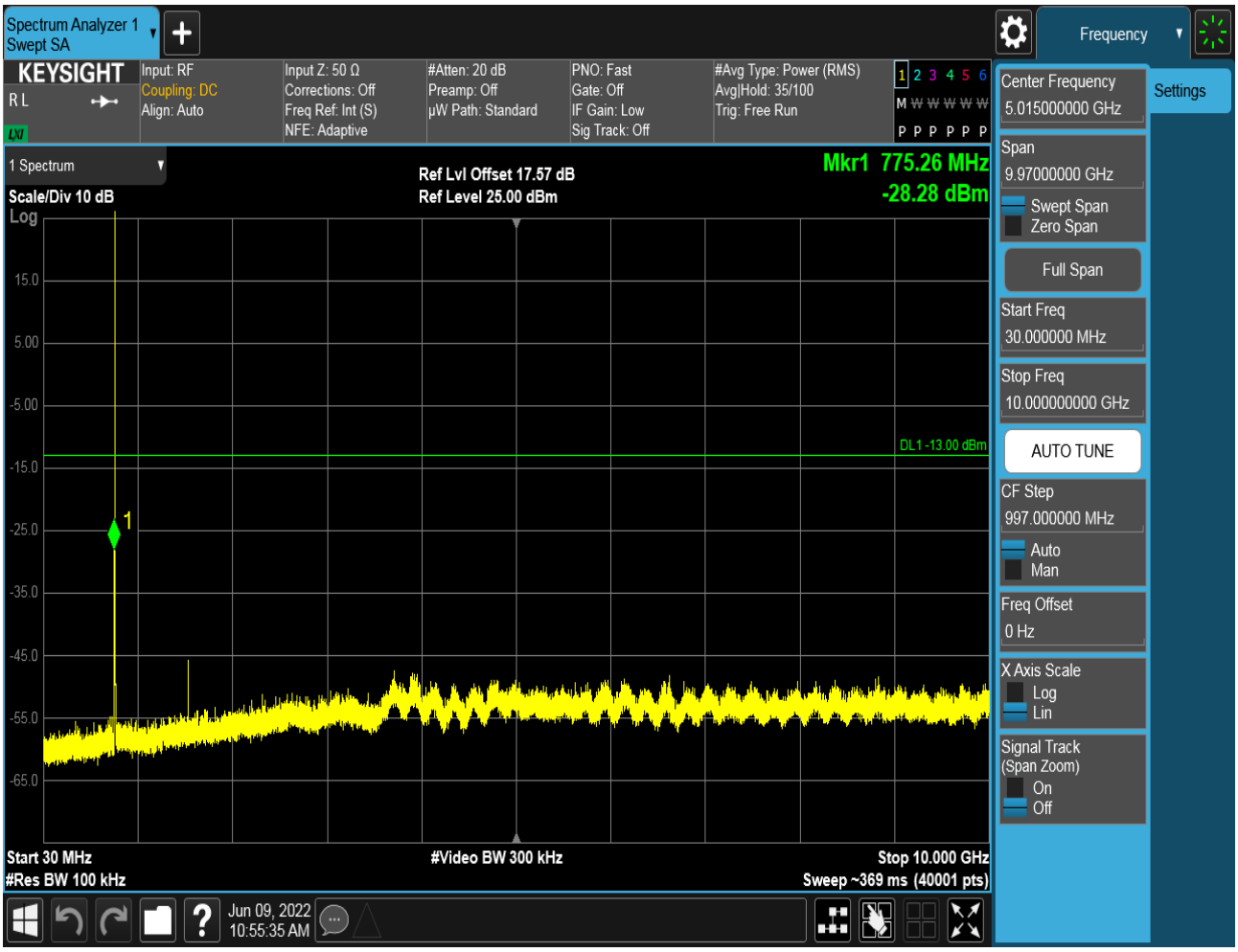

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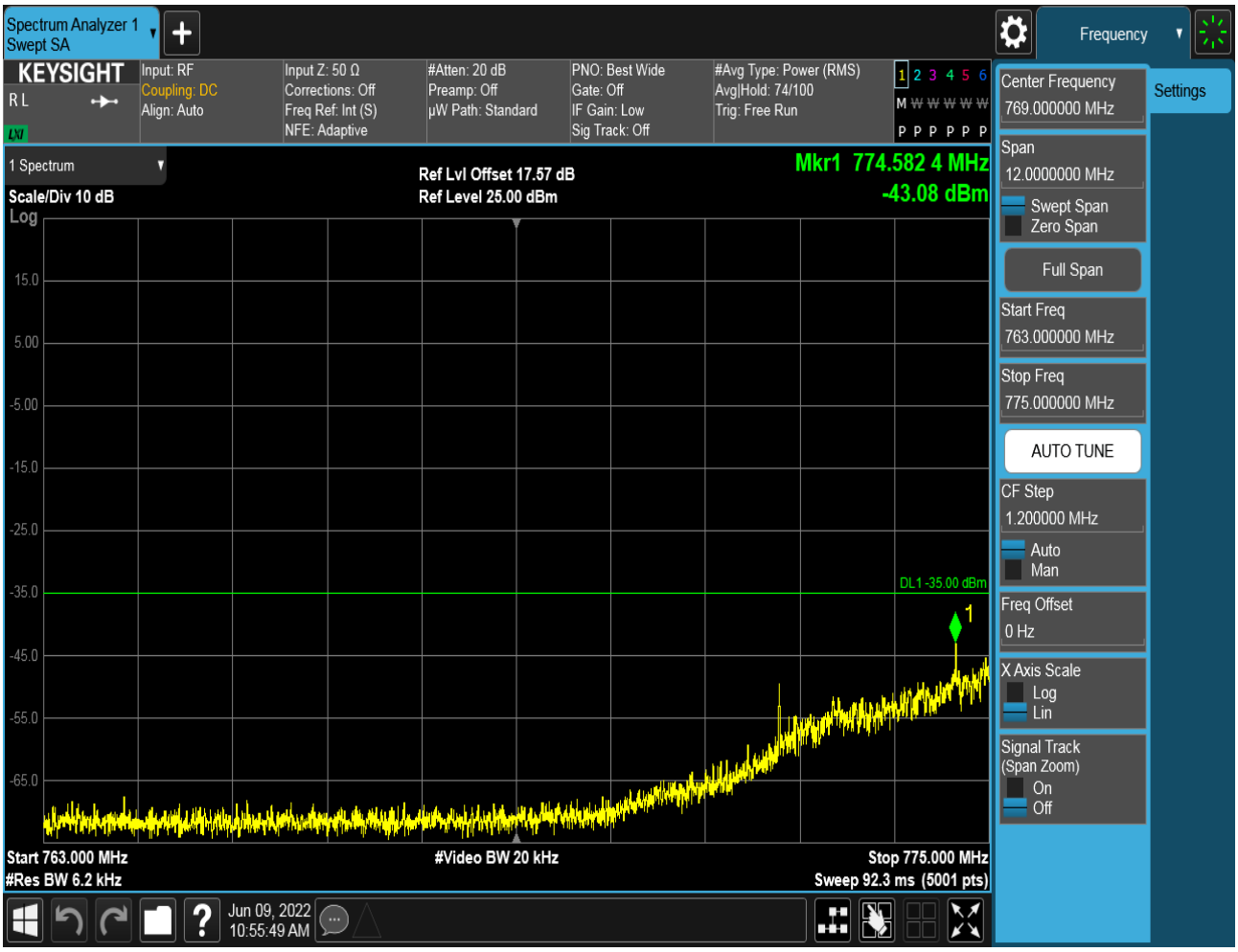

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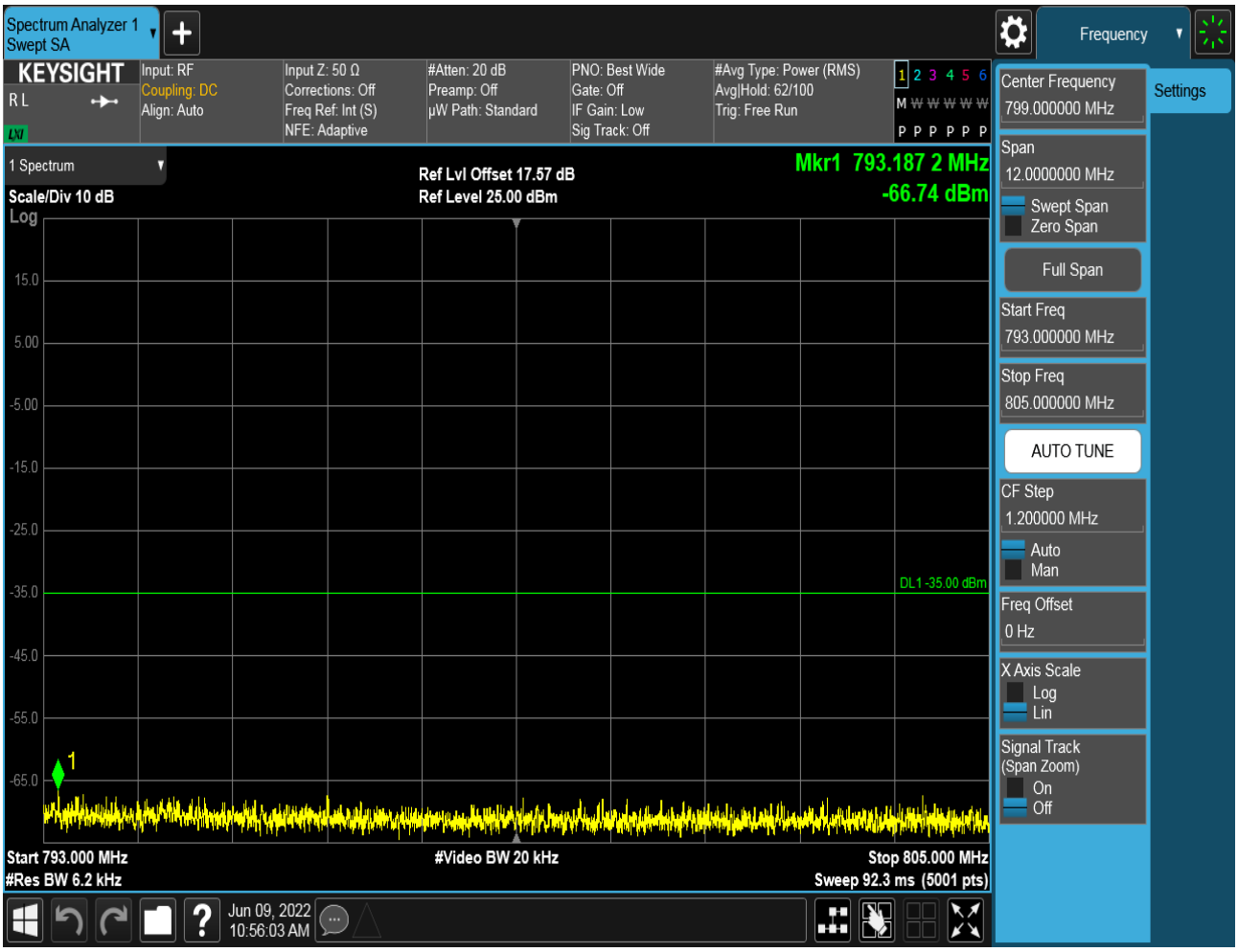

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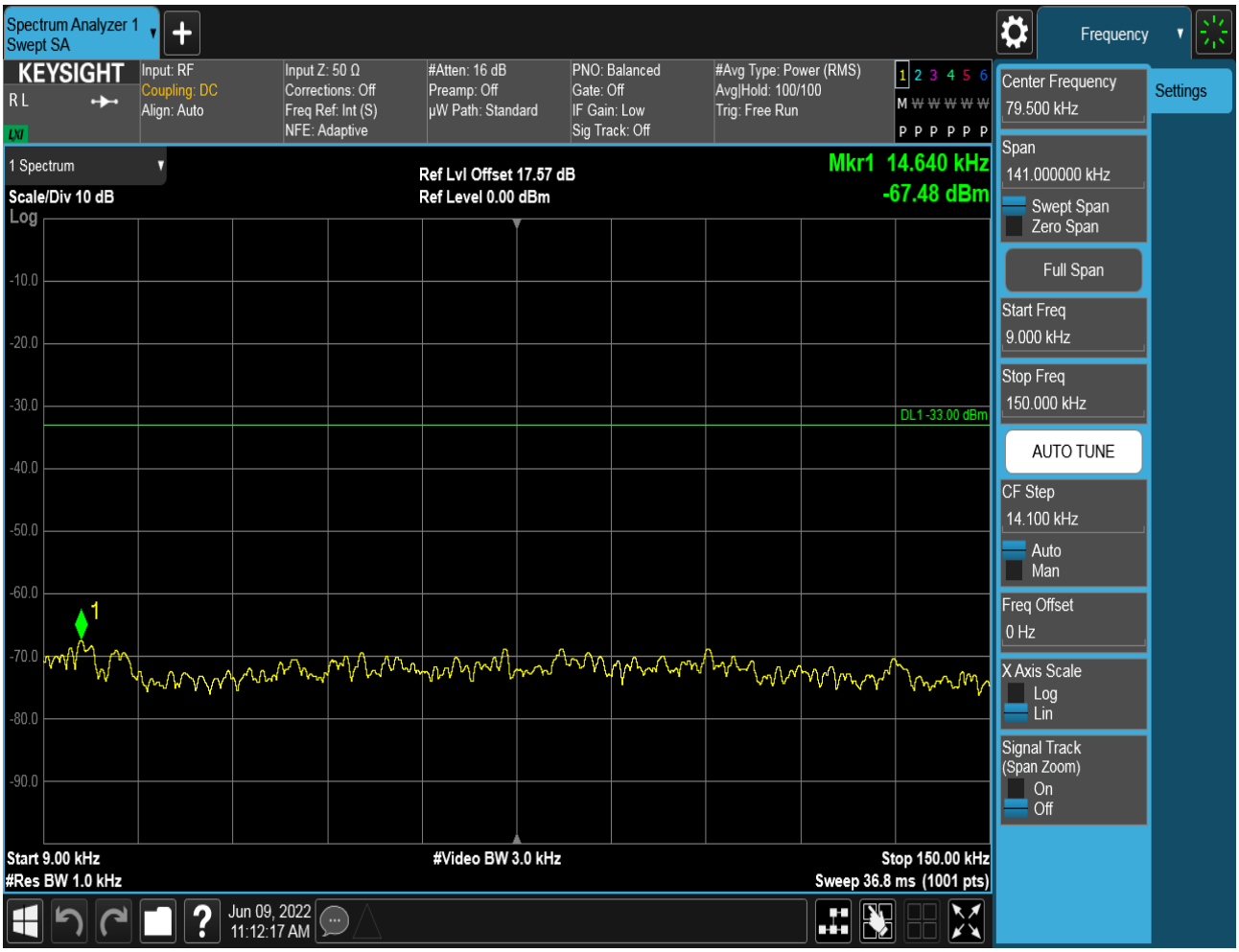
6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0



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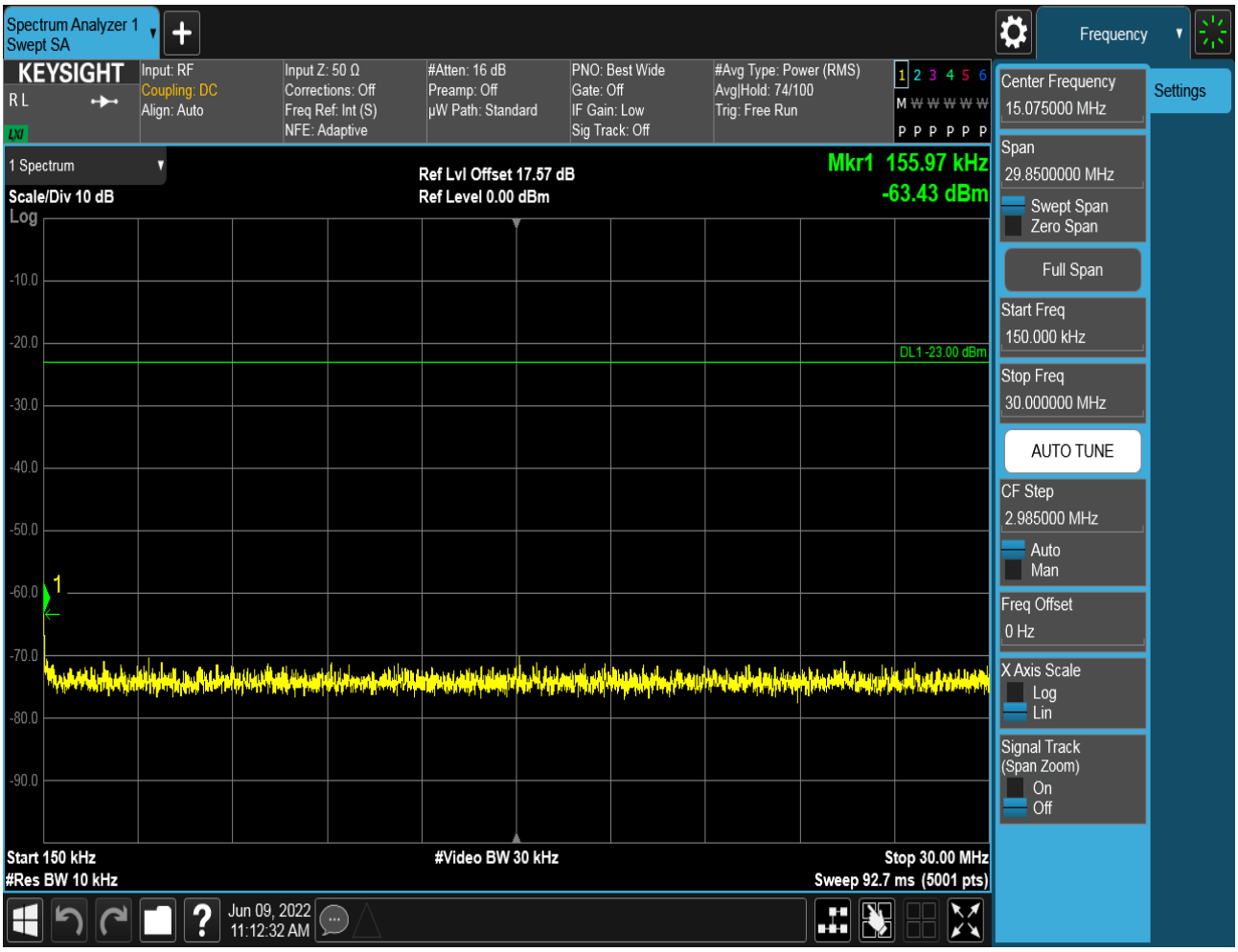

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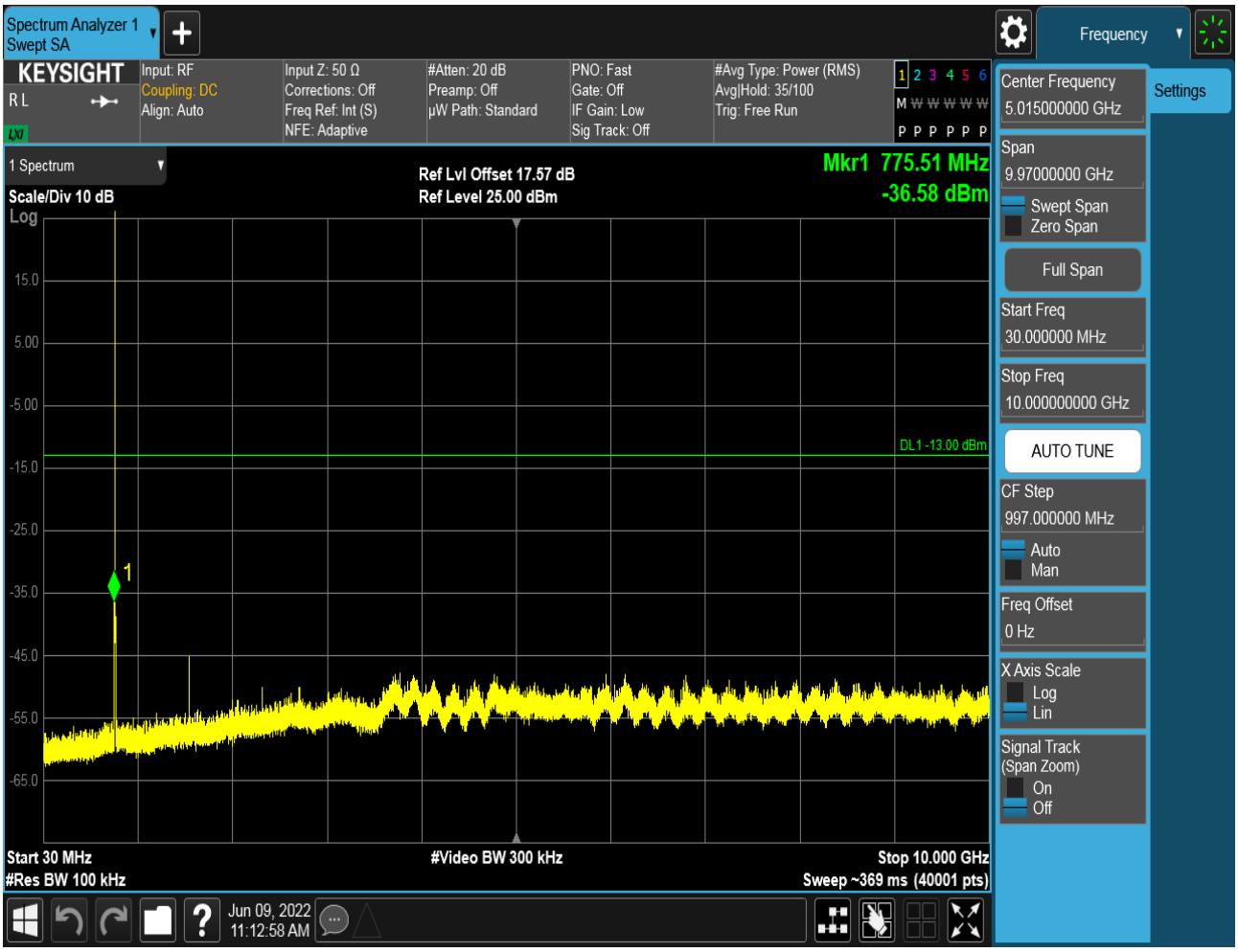

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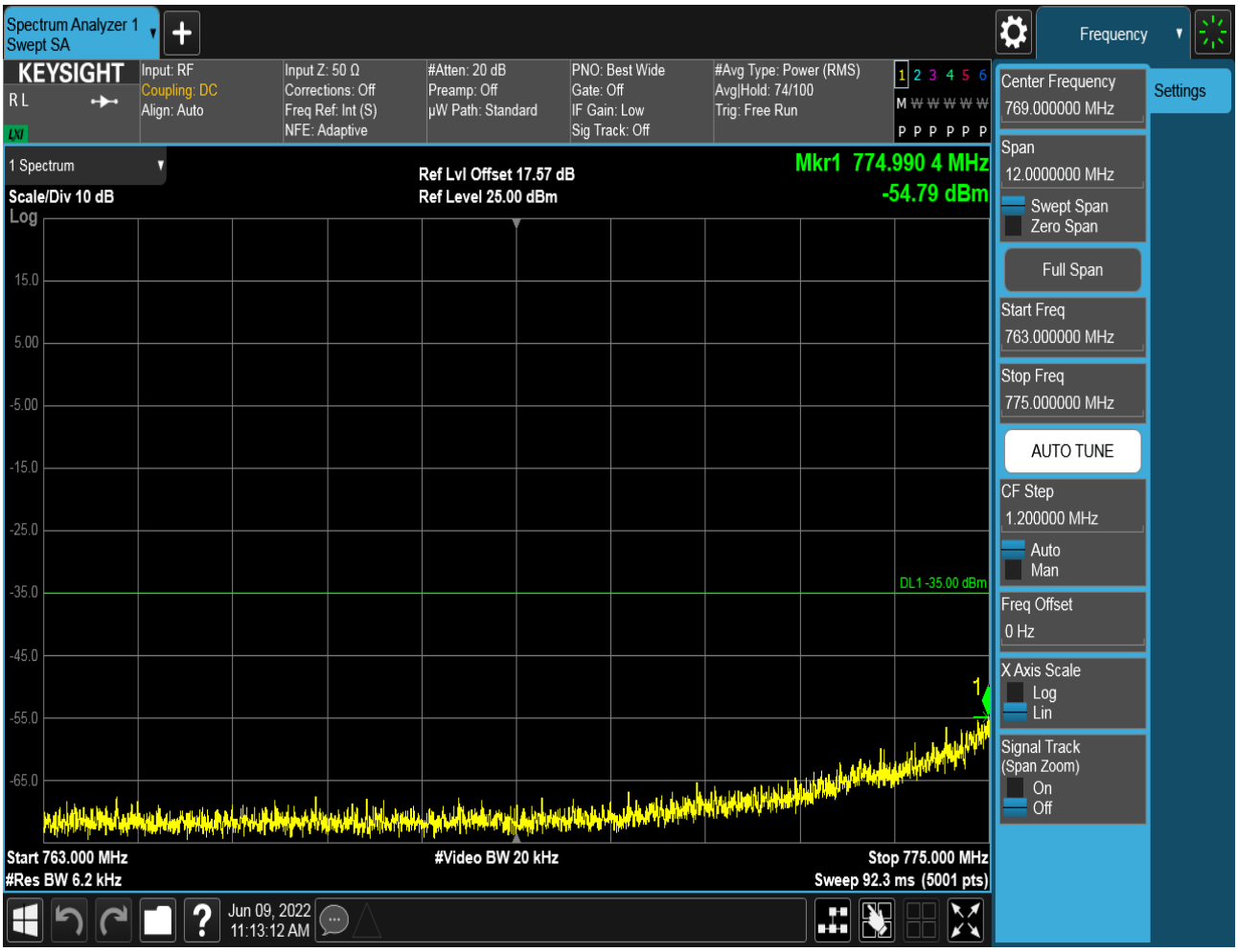

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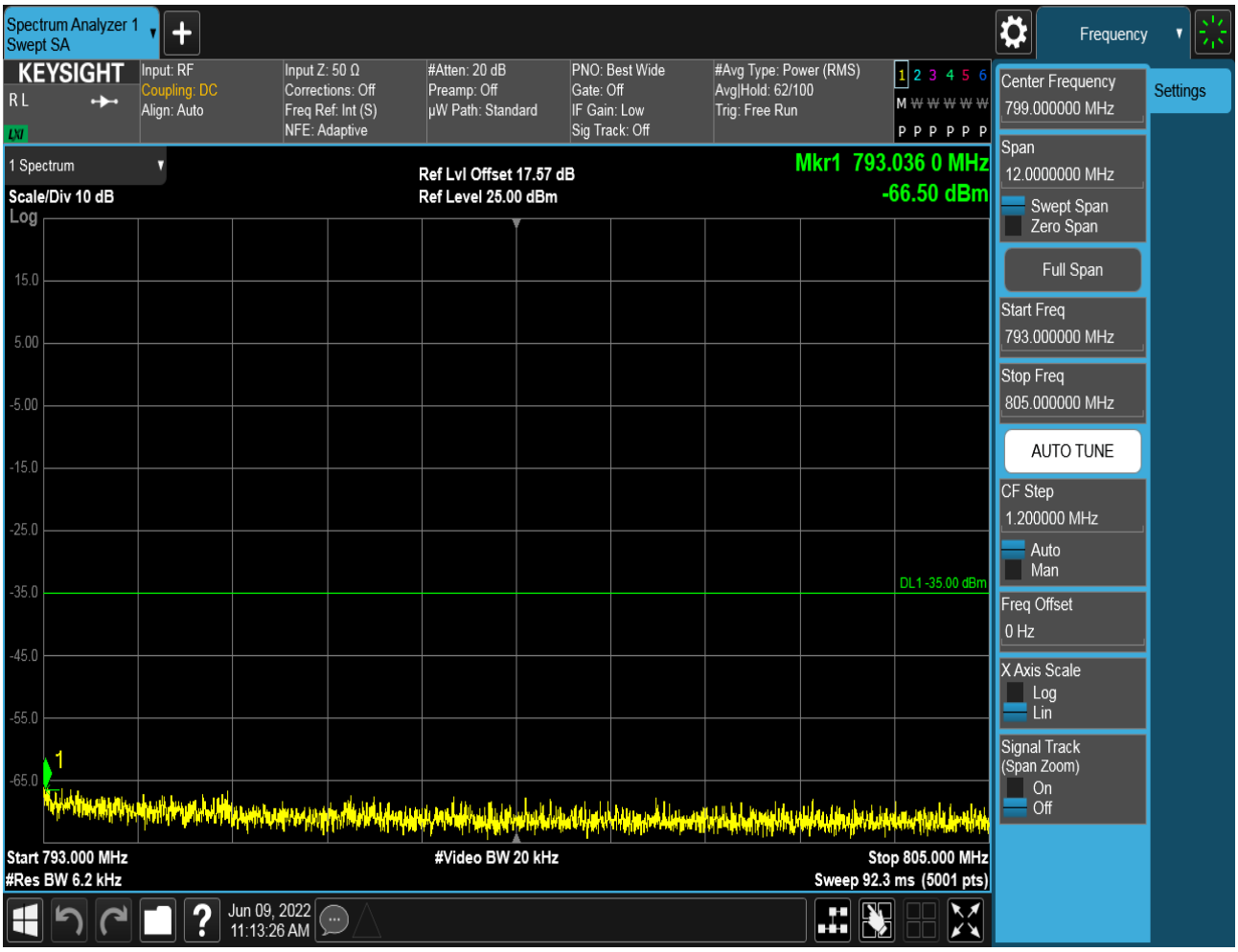

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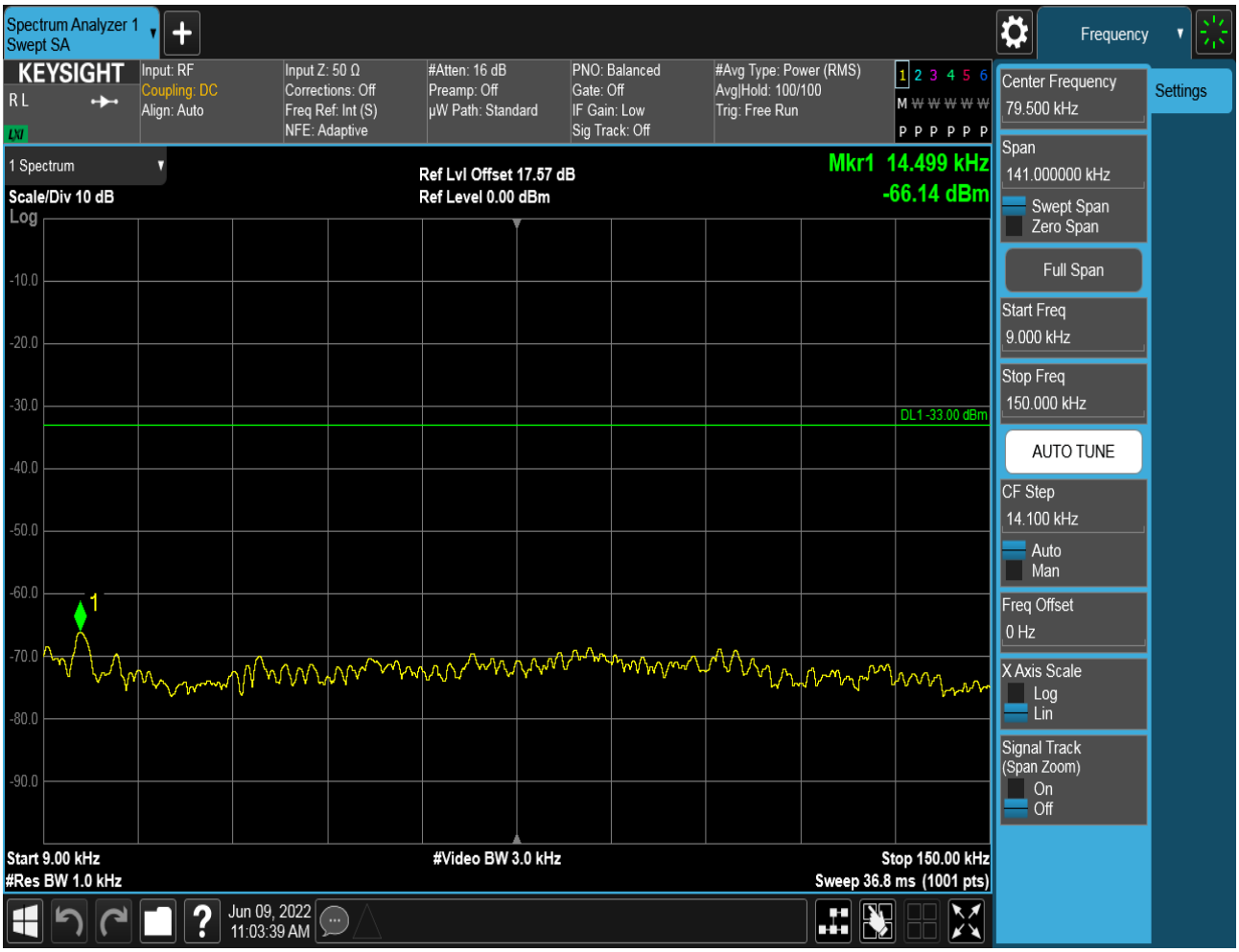
6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0



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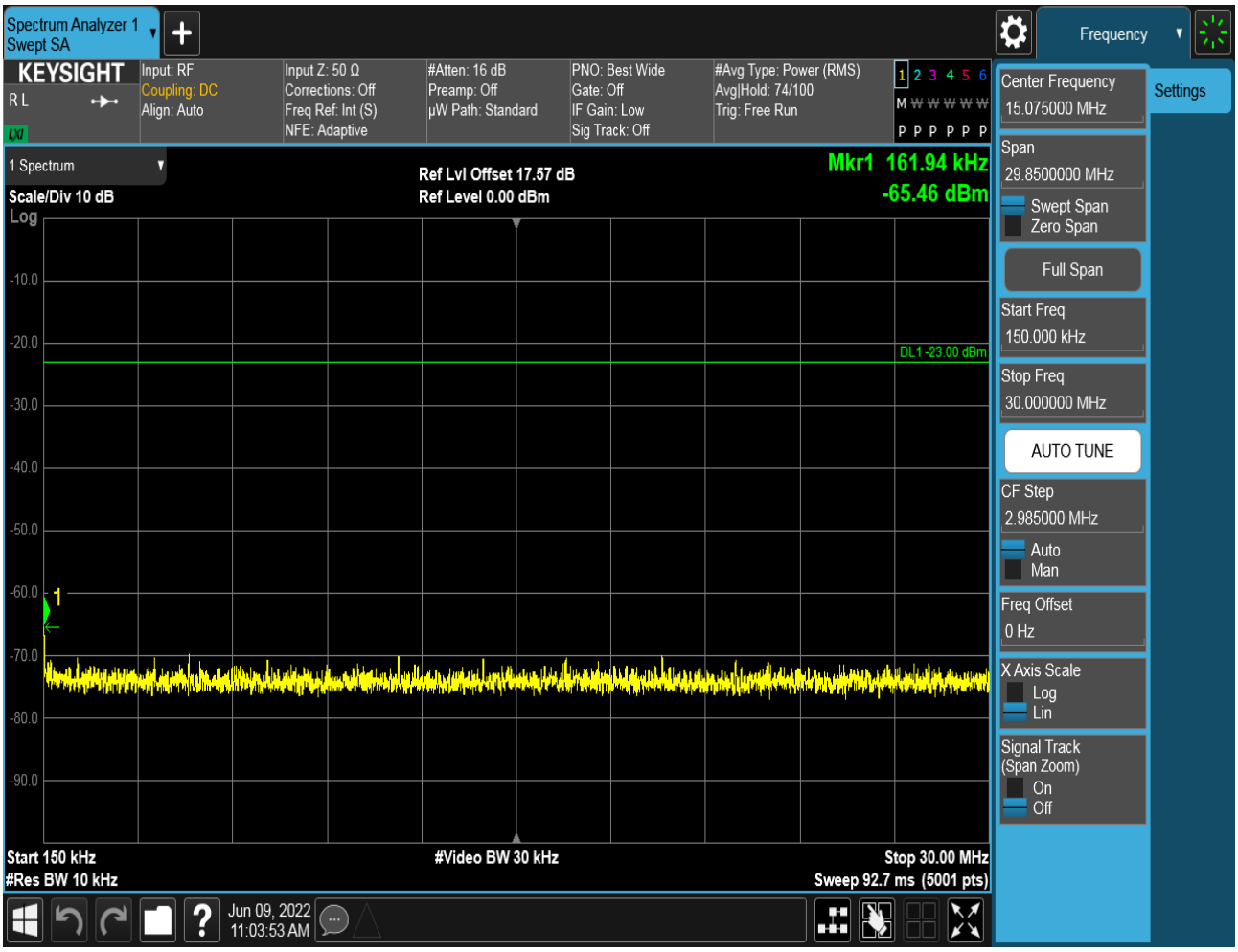

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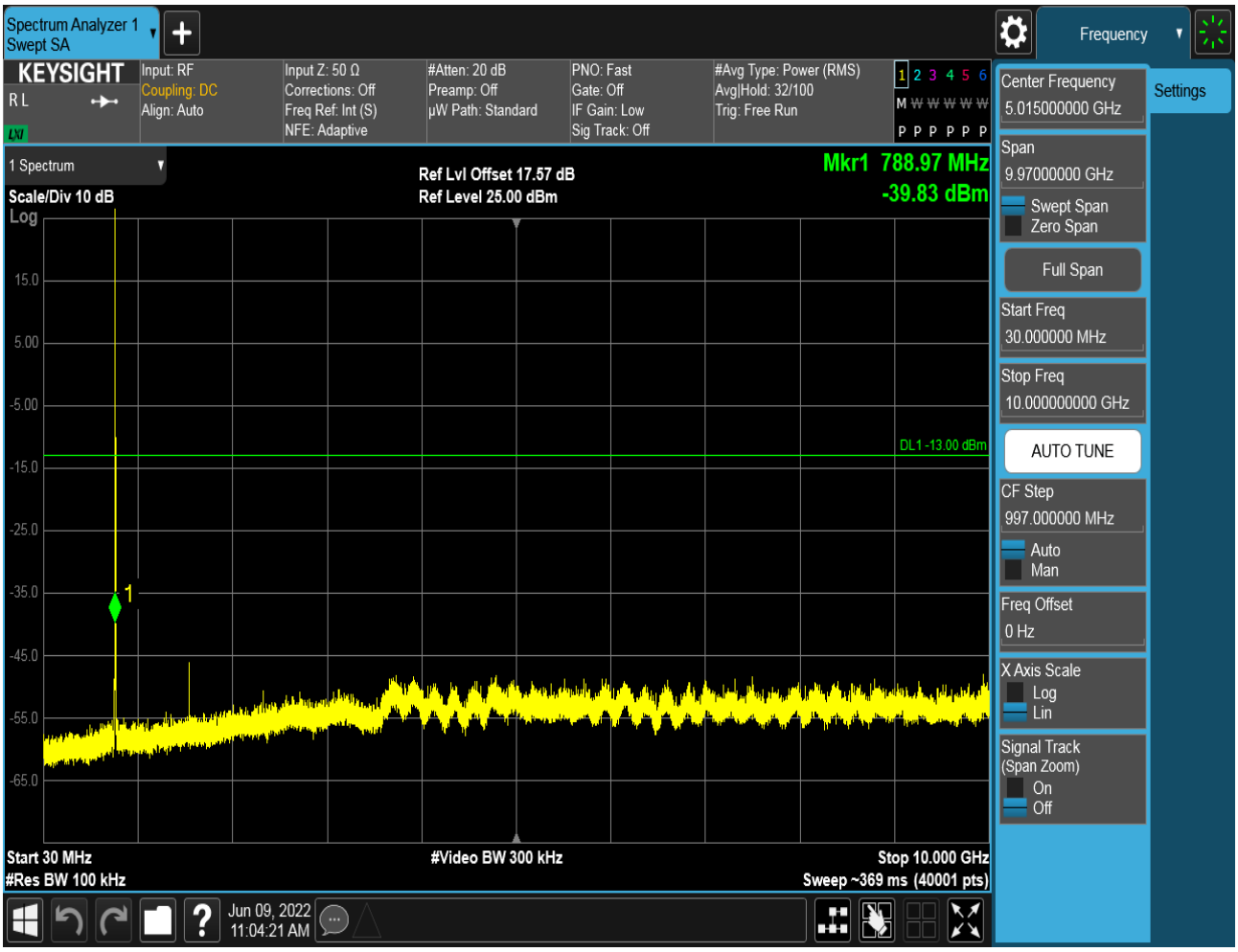

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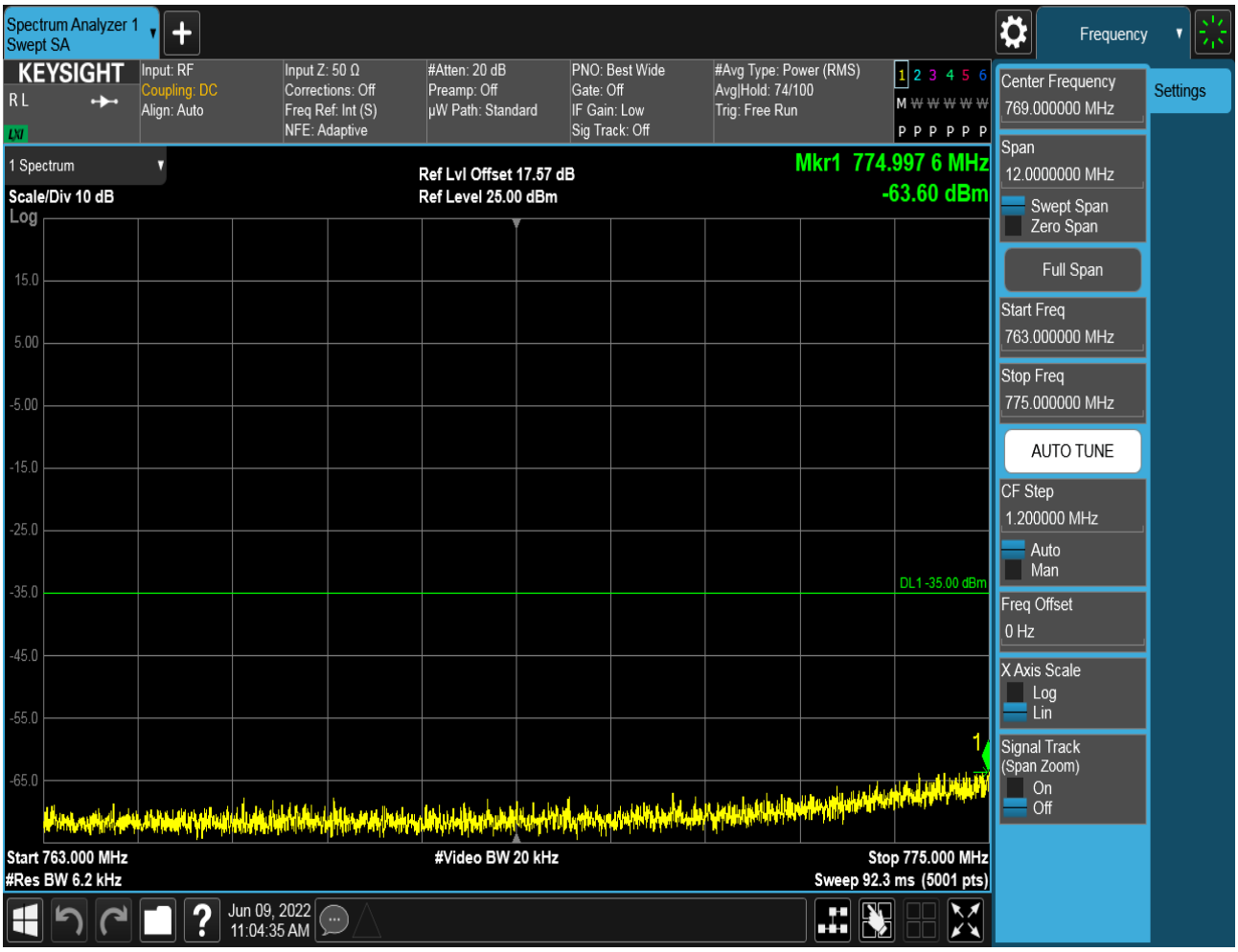

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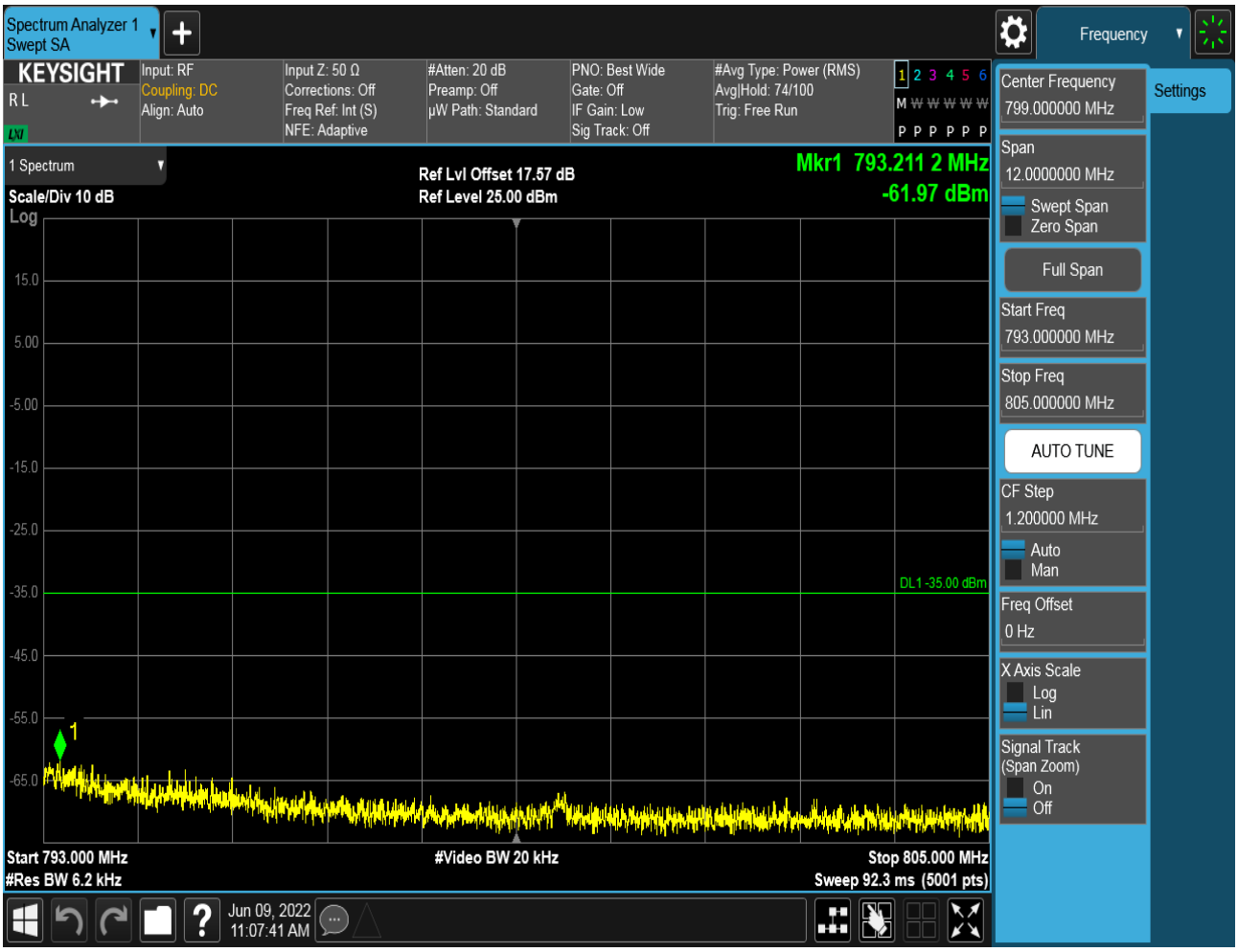

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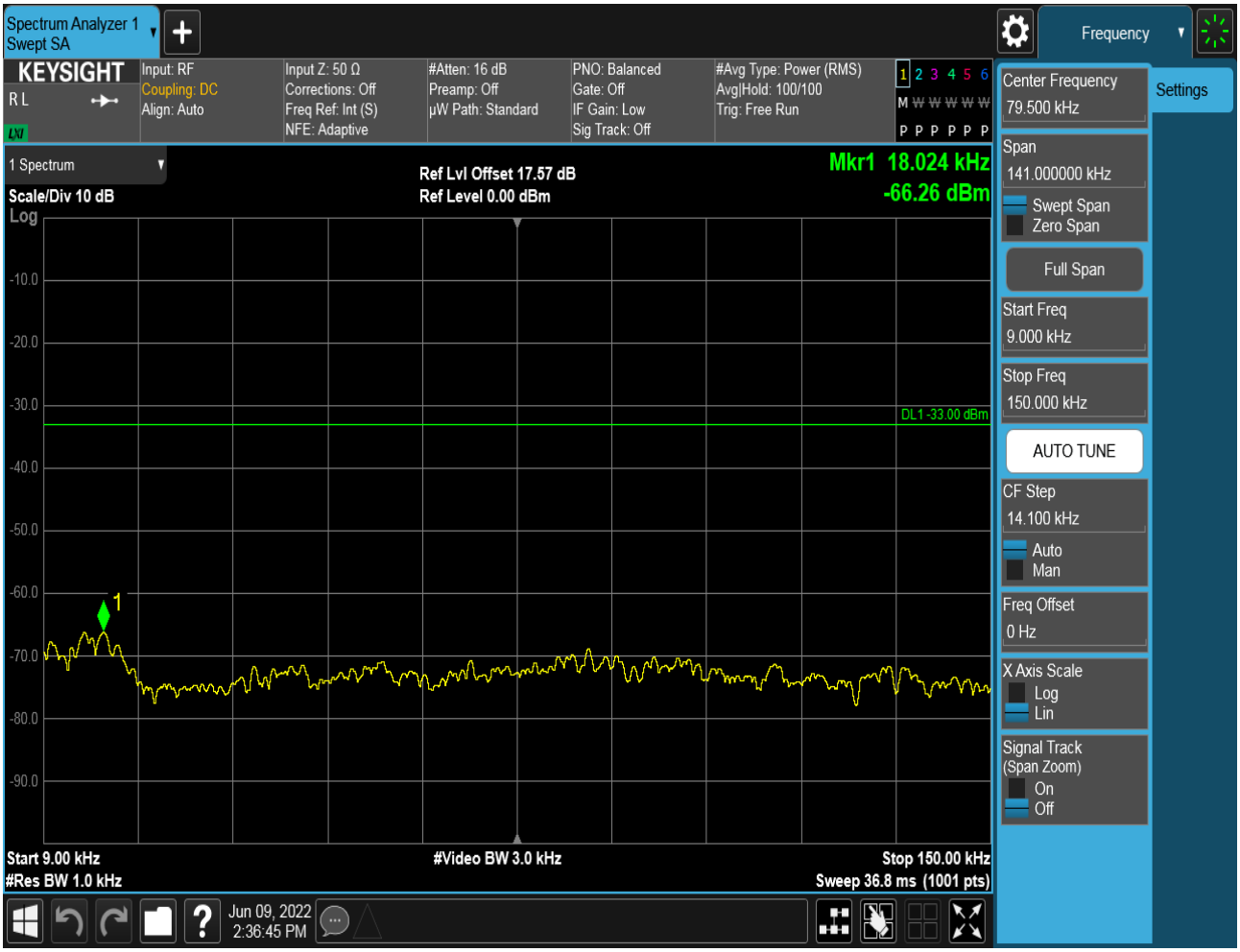
6.2.1.1.4 Test Bandwidth = 10MHz

6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0



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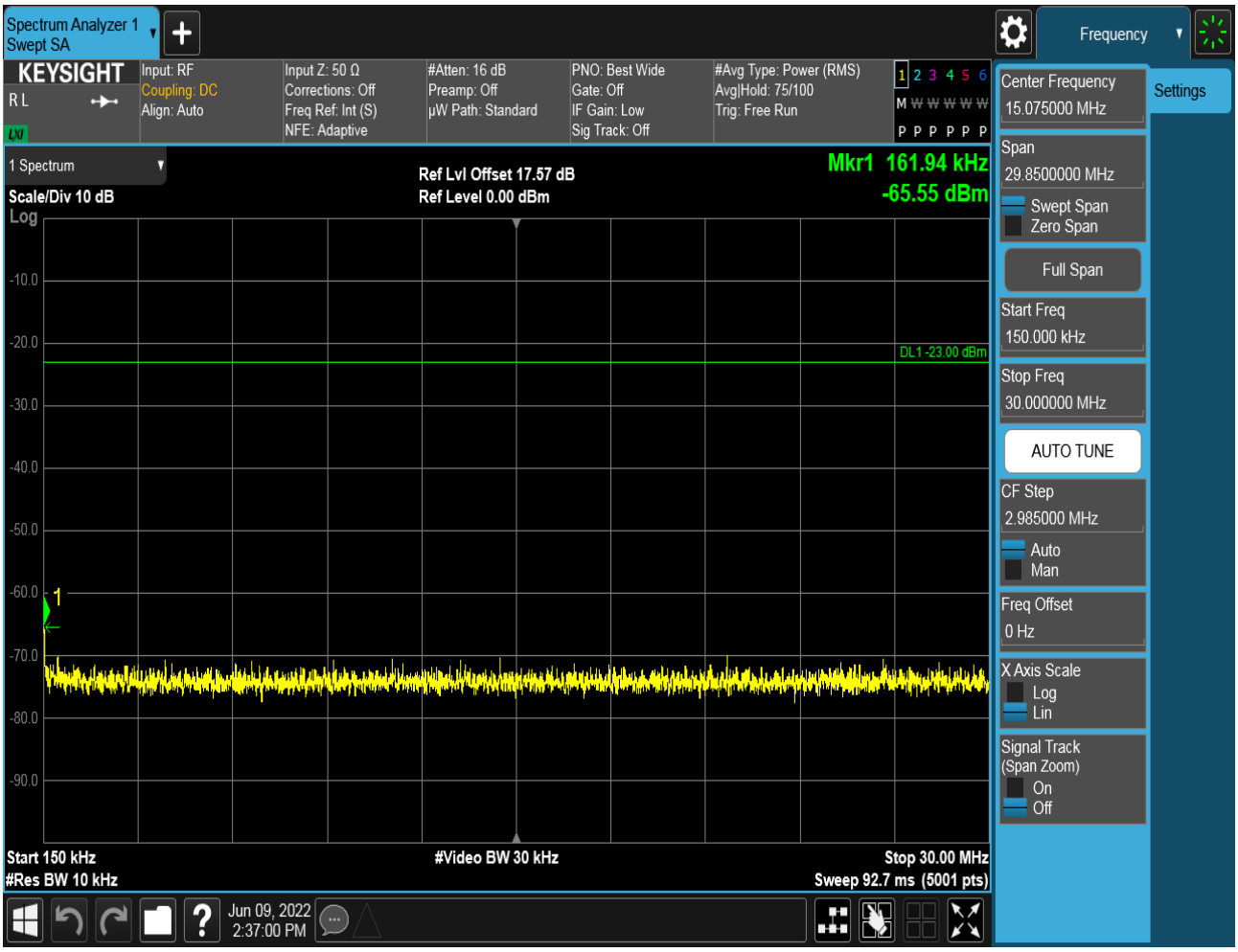

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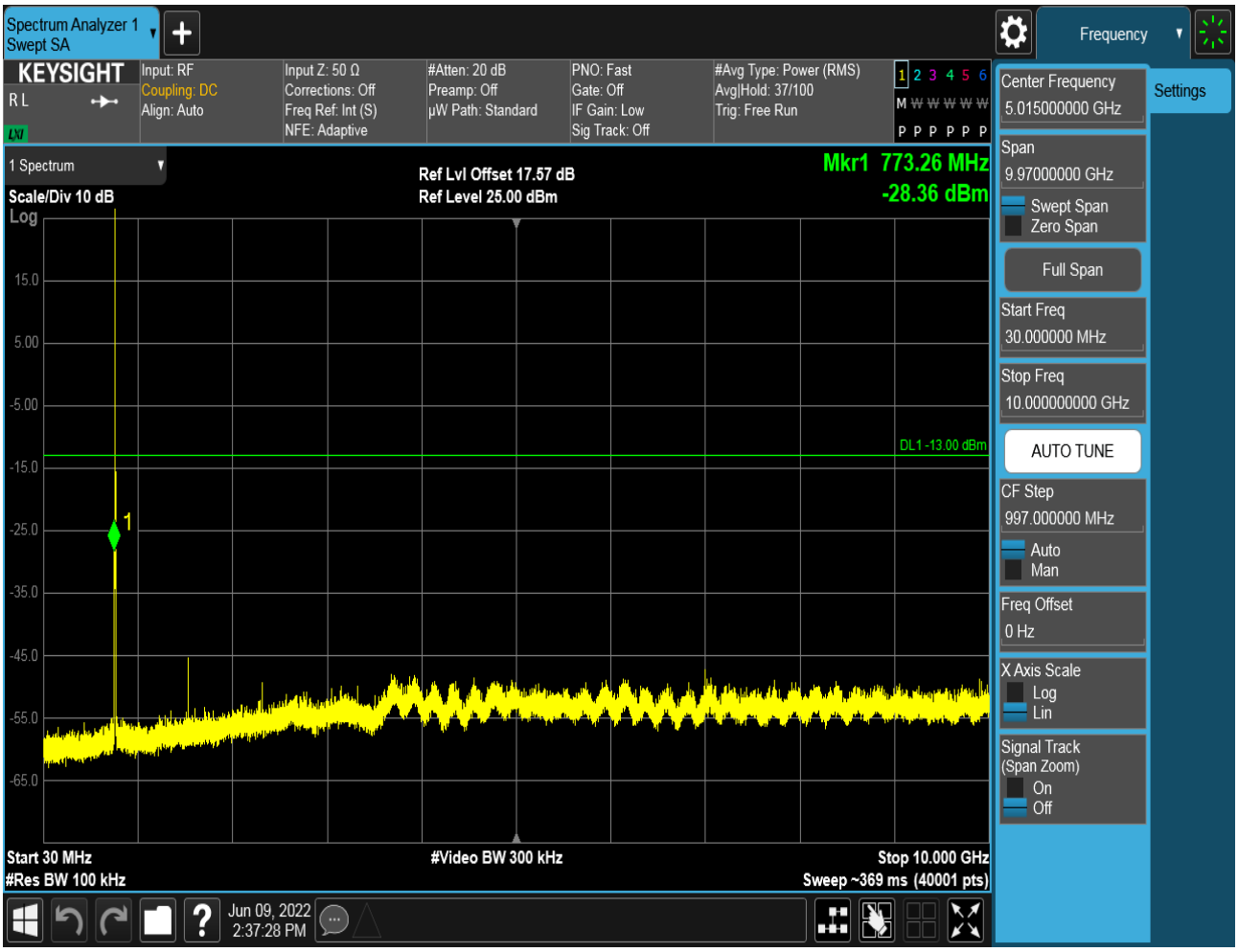

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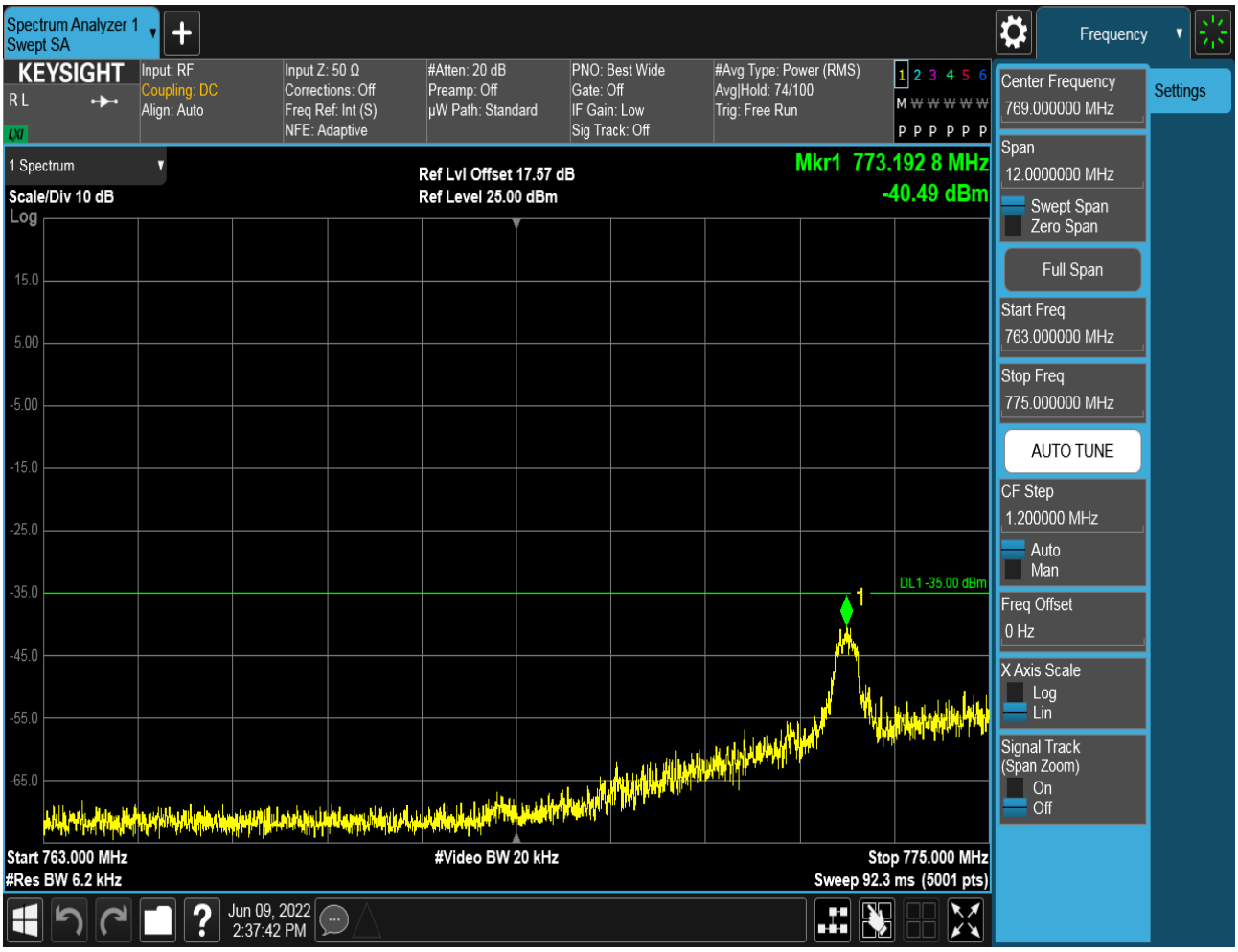

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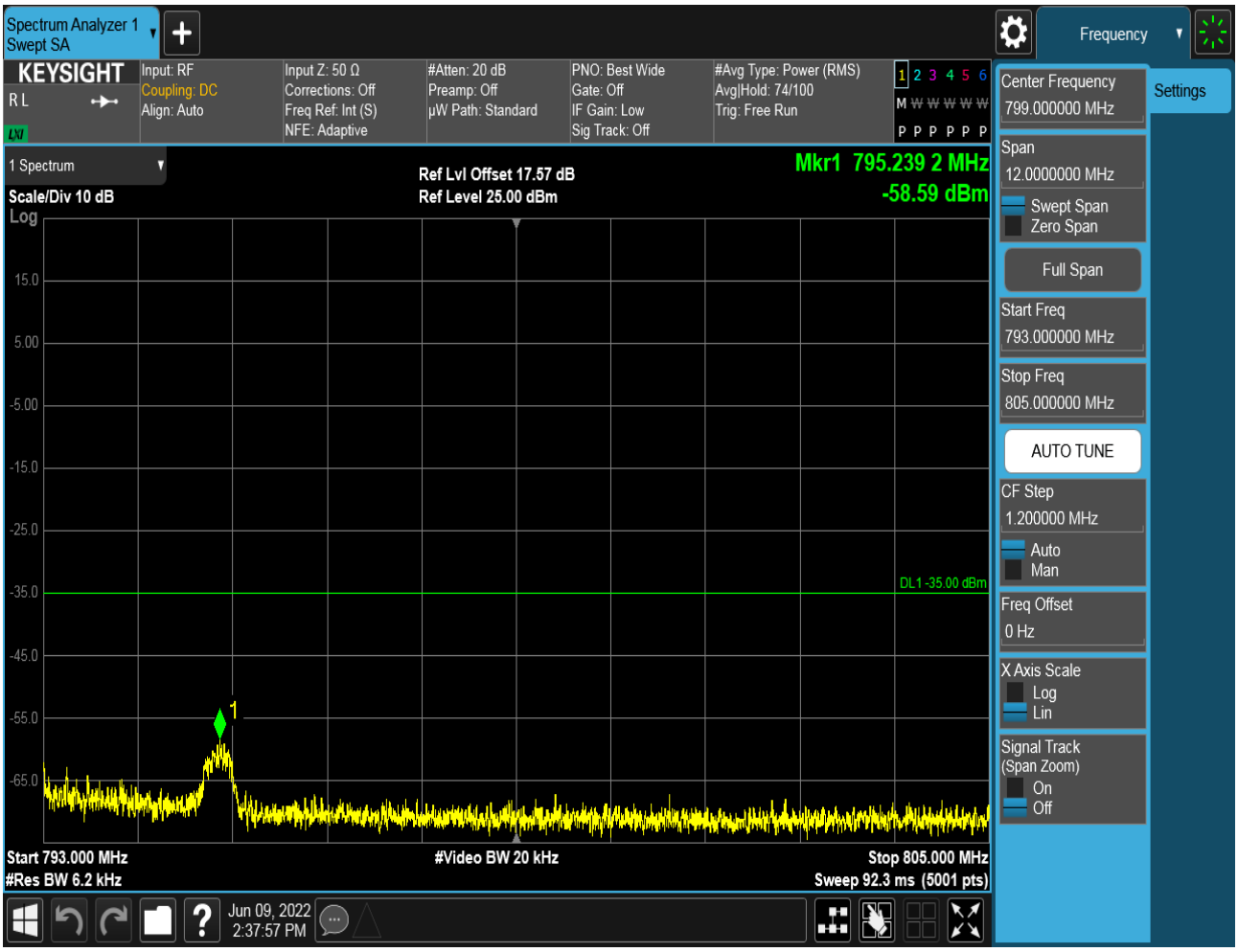

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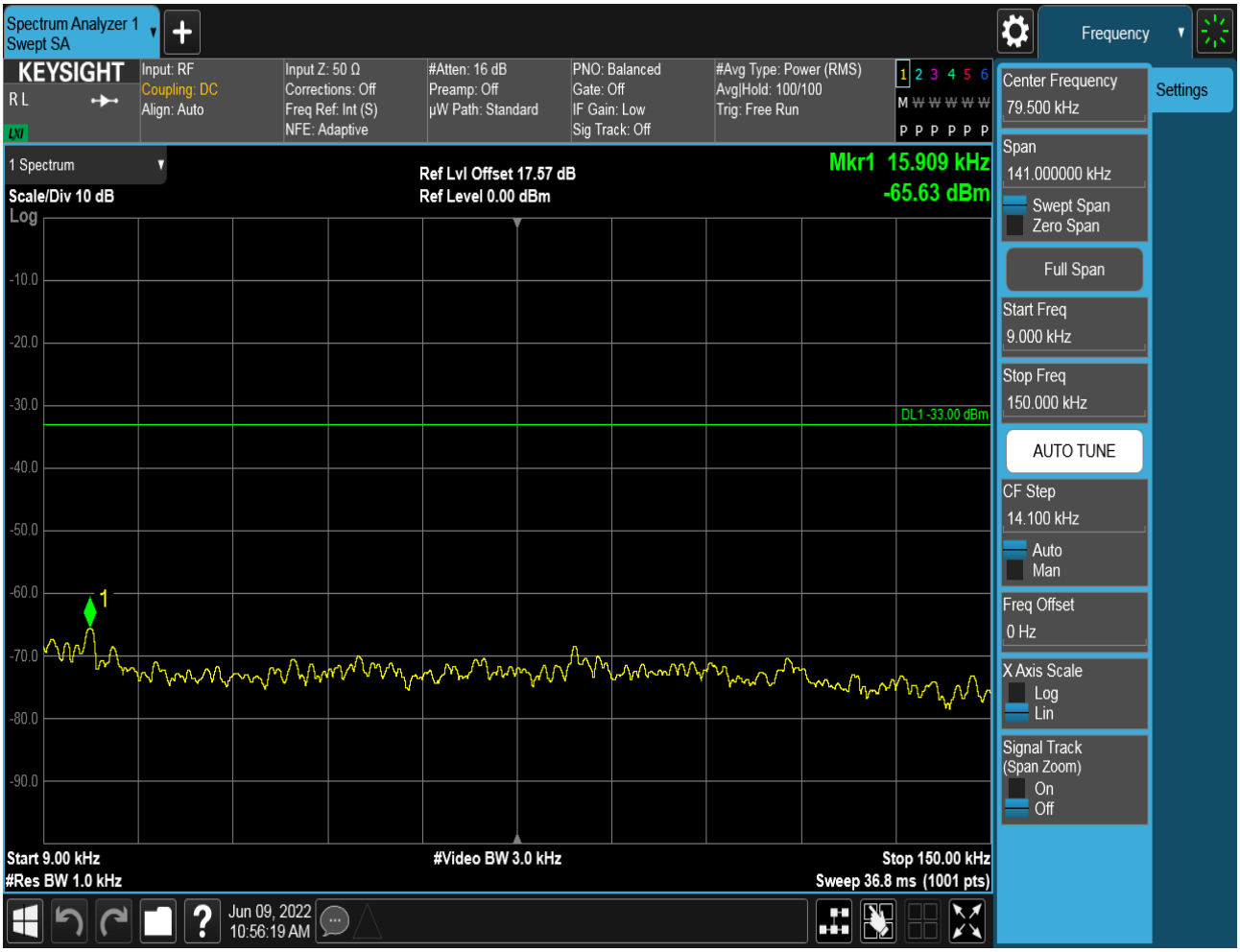
6.2.1.2 Test Mode = LTE/TM2

6.2.1.2.3 Test Bandwidth = 5MHz

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0



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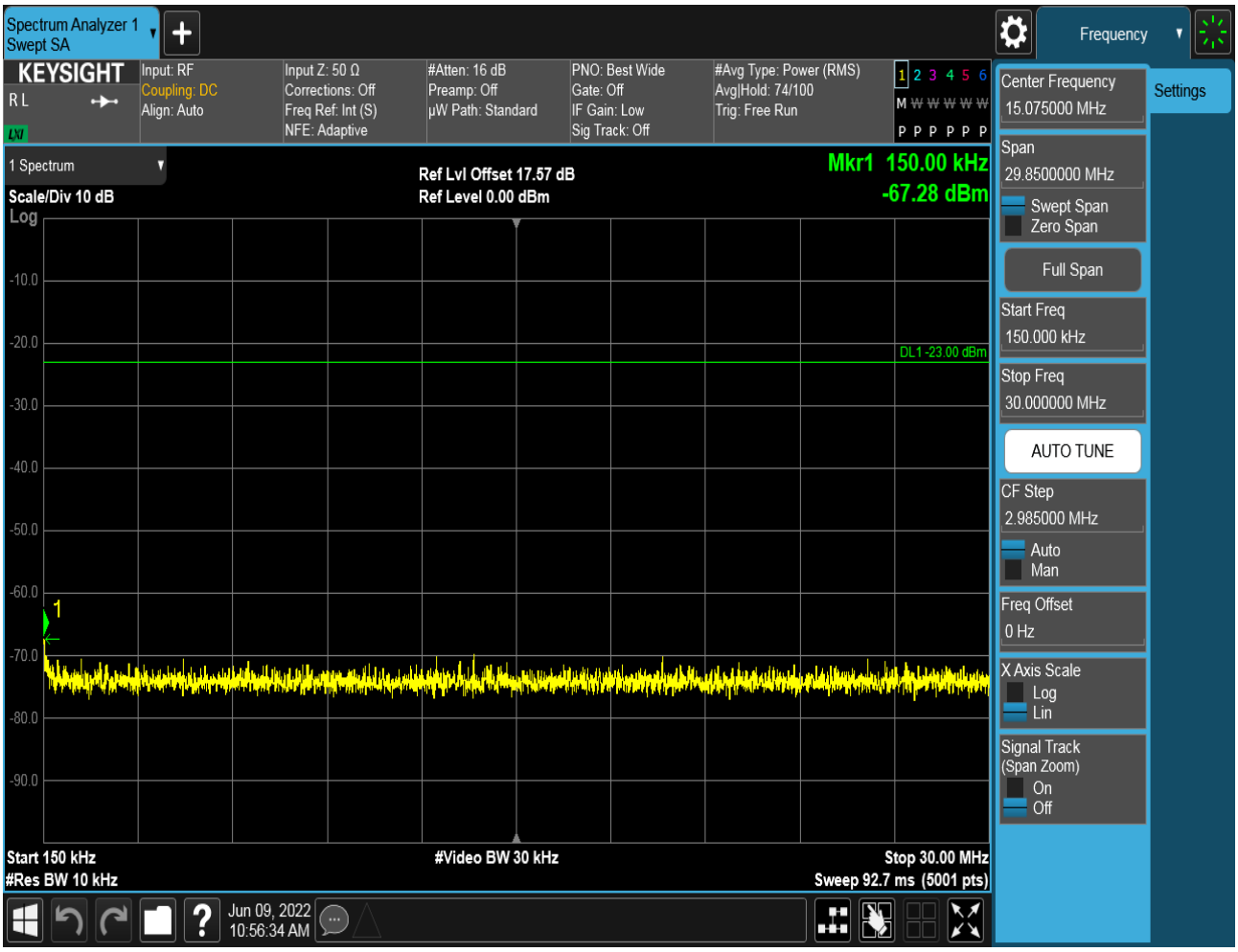

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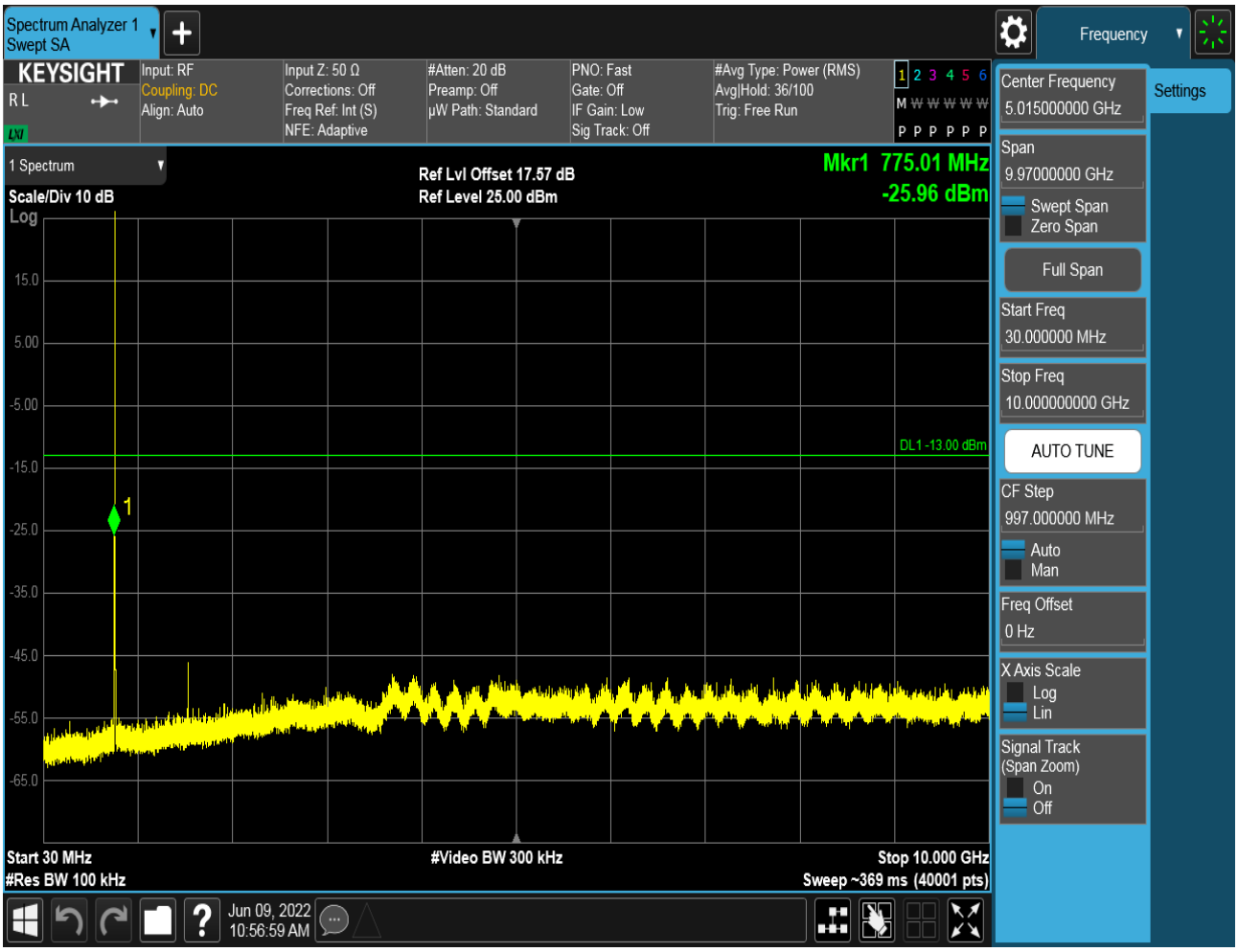

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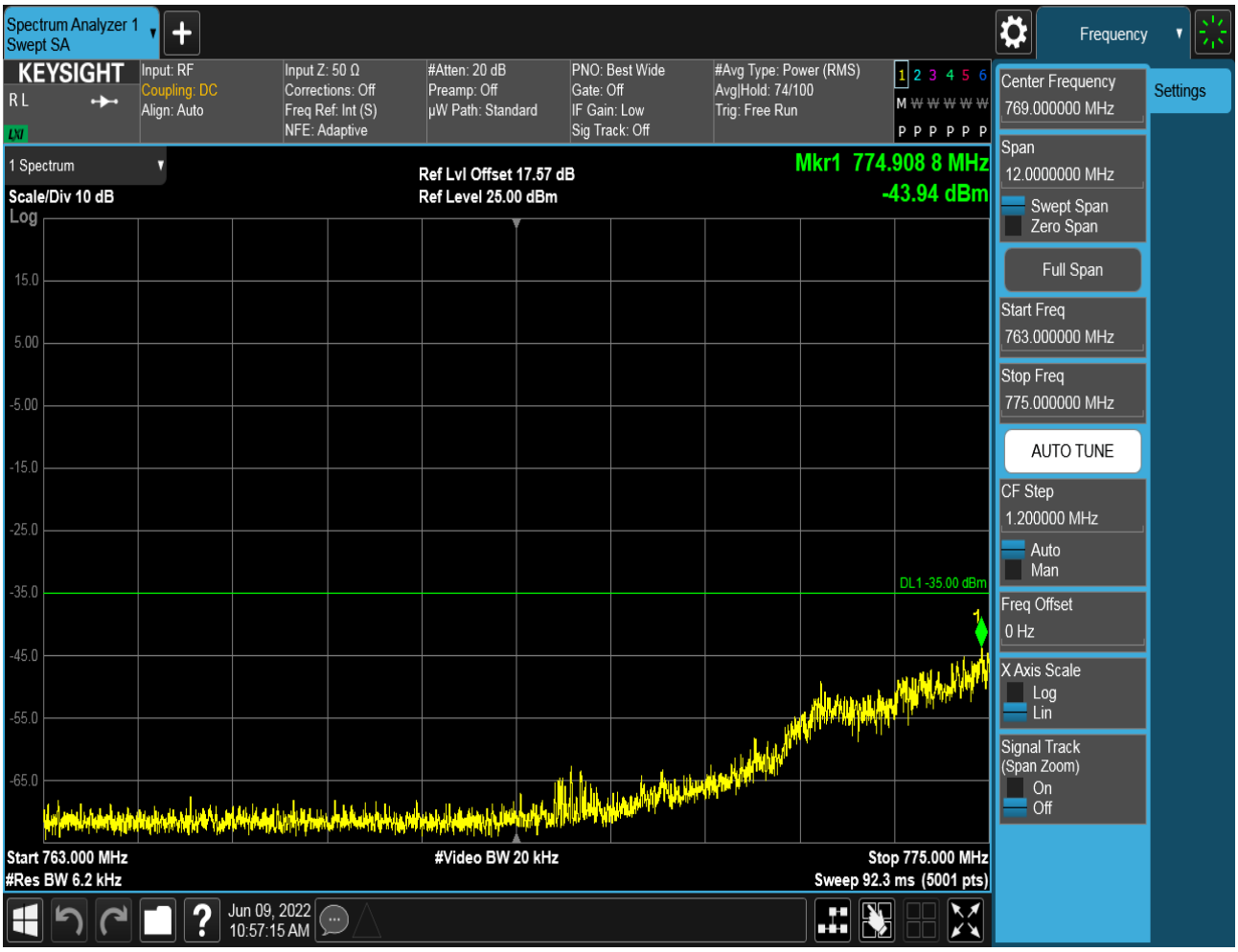

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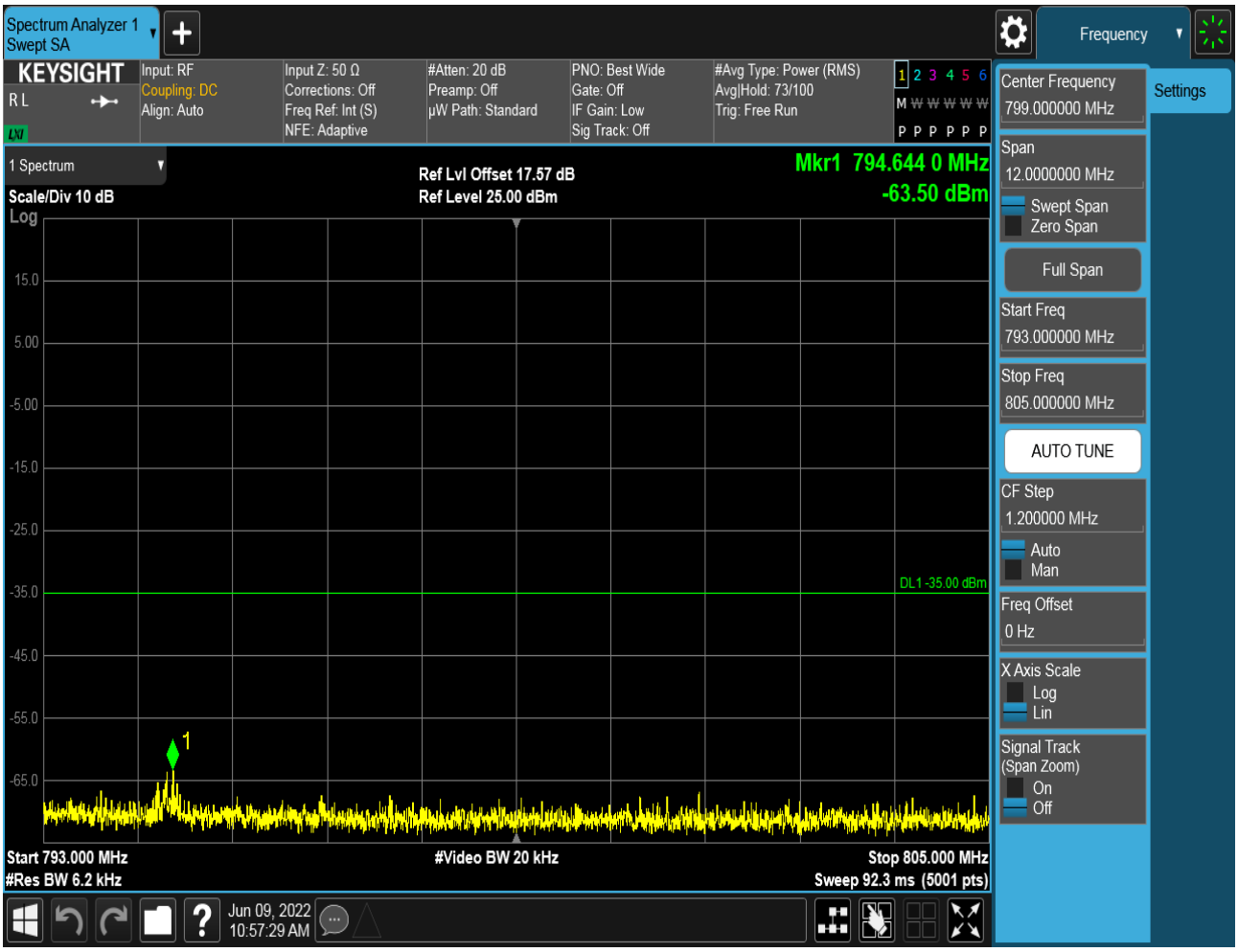

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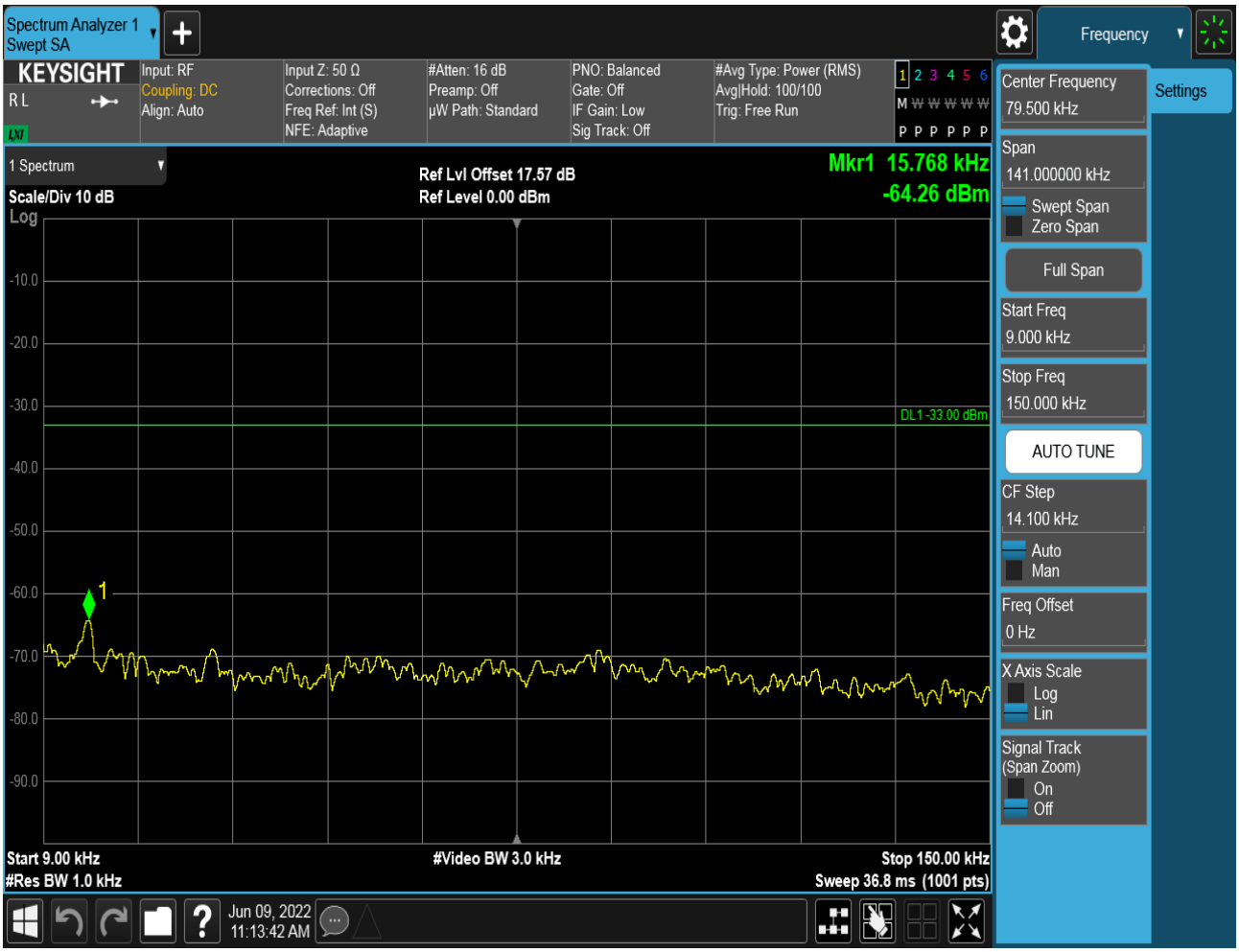
6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0



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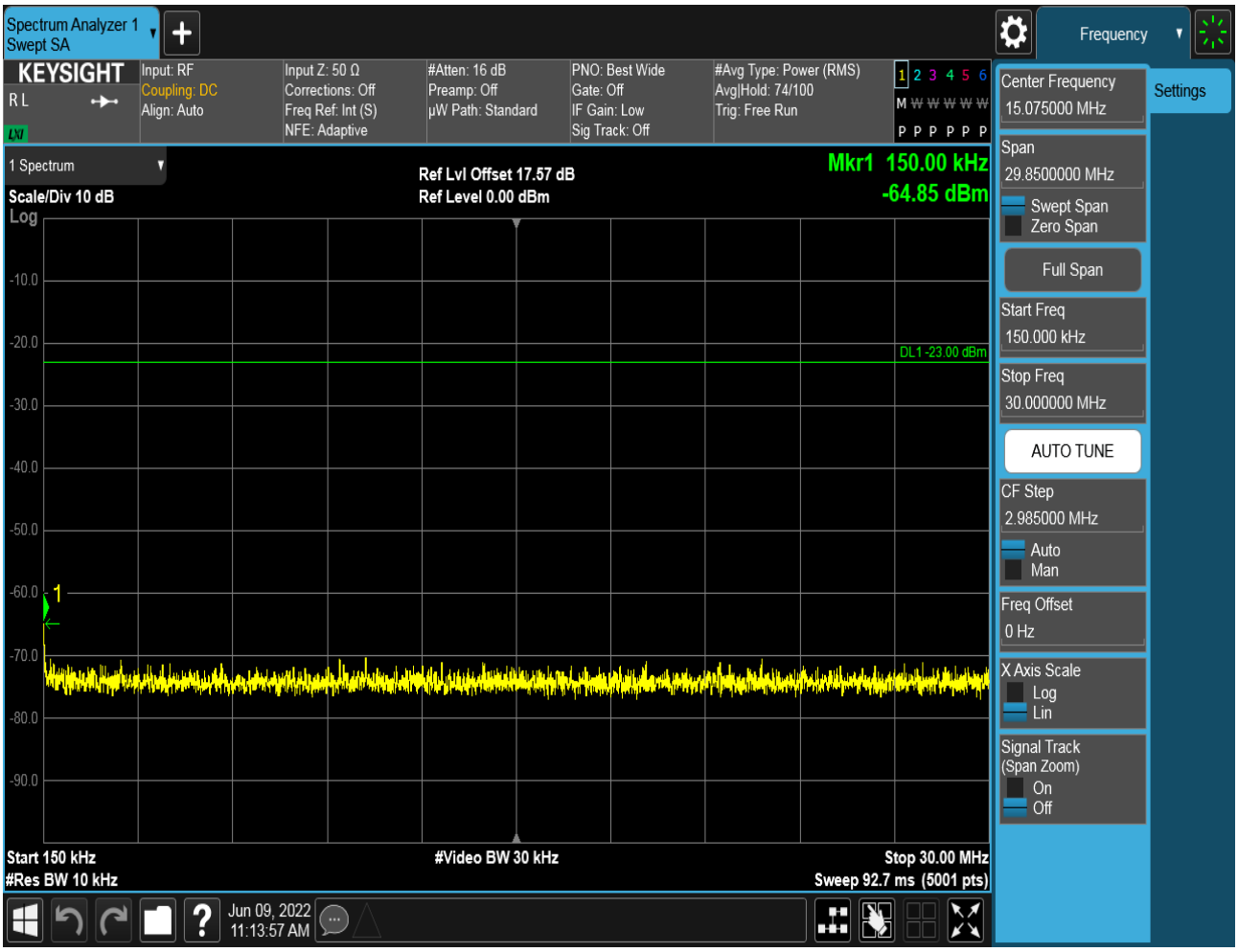

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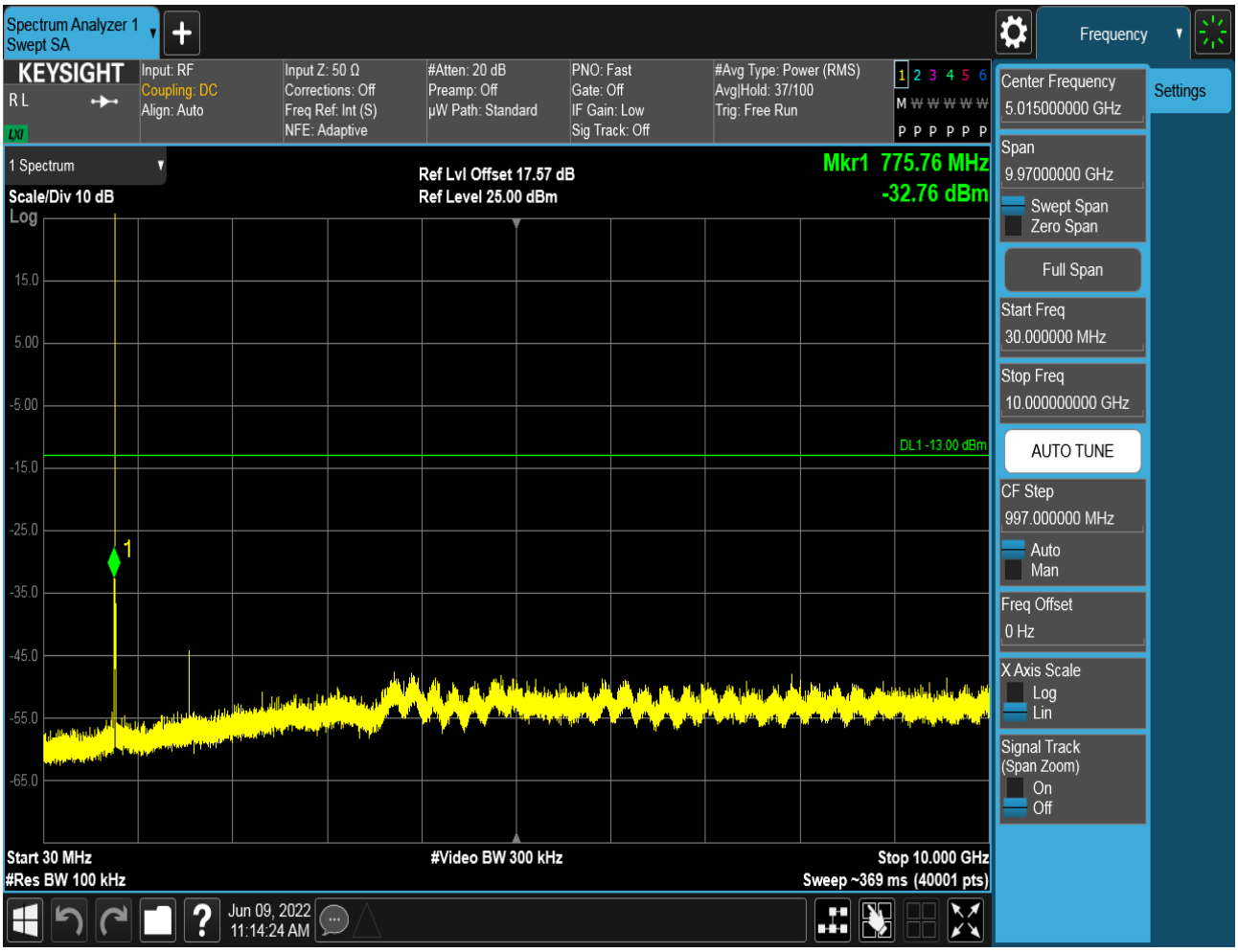

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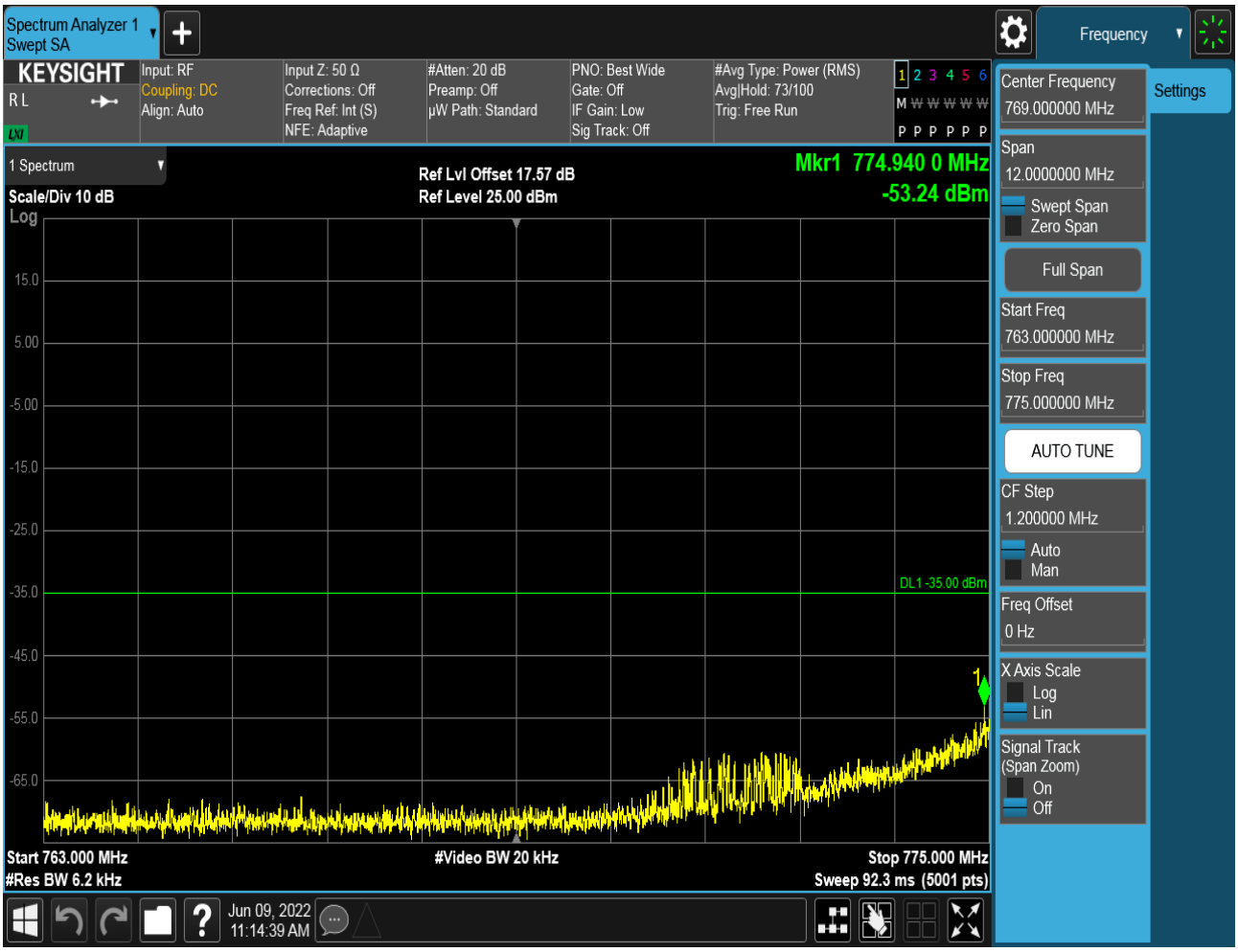

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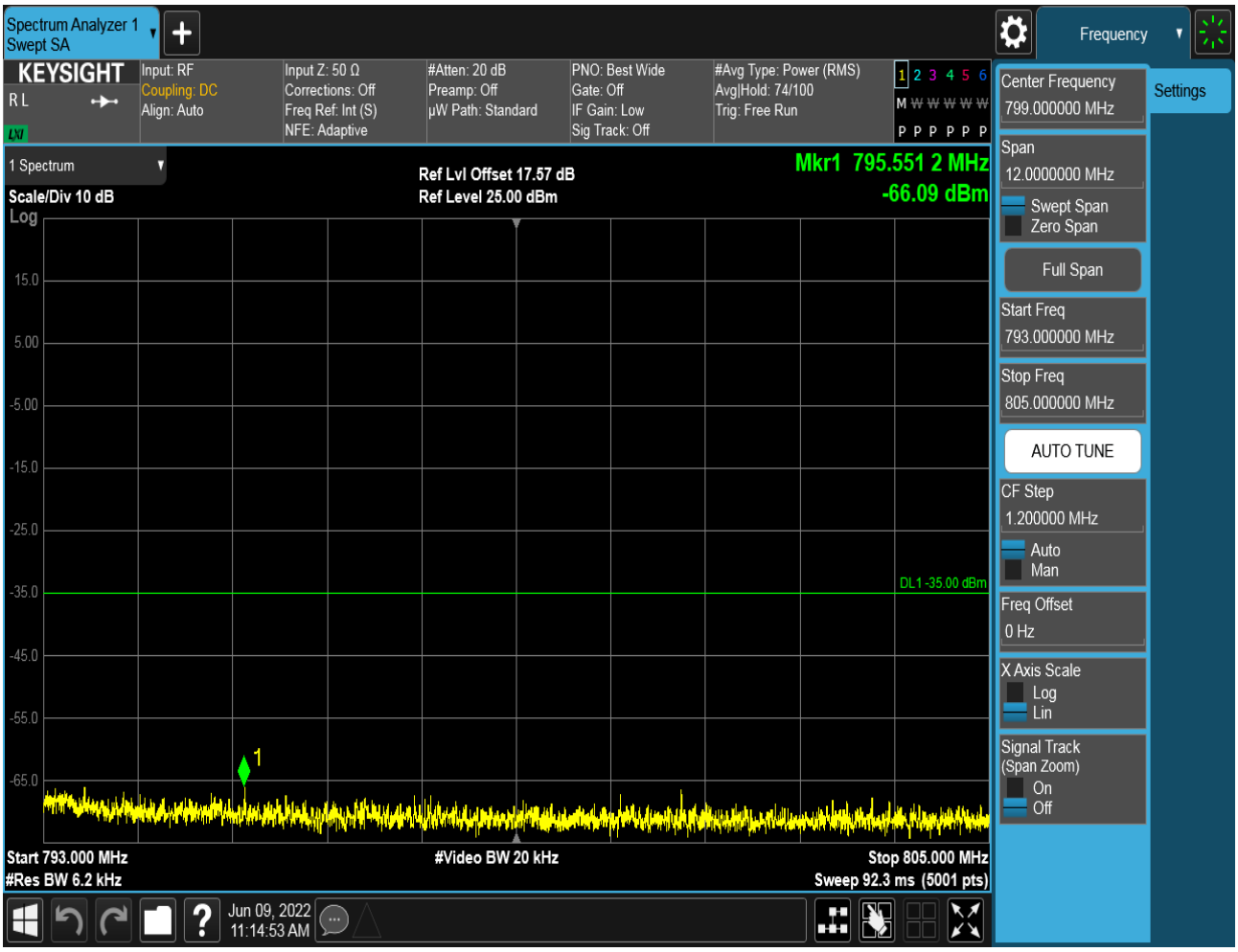

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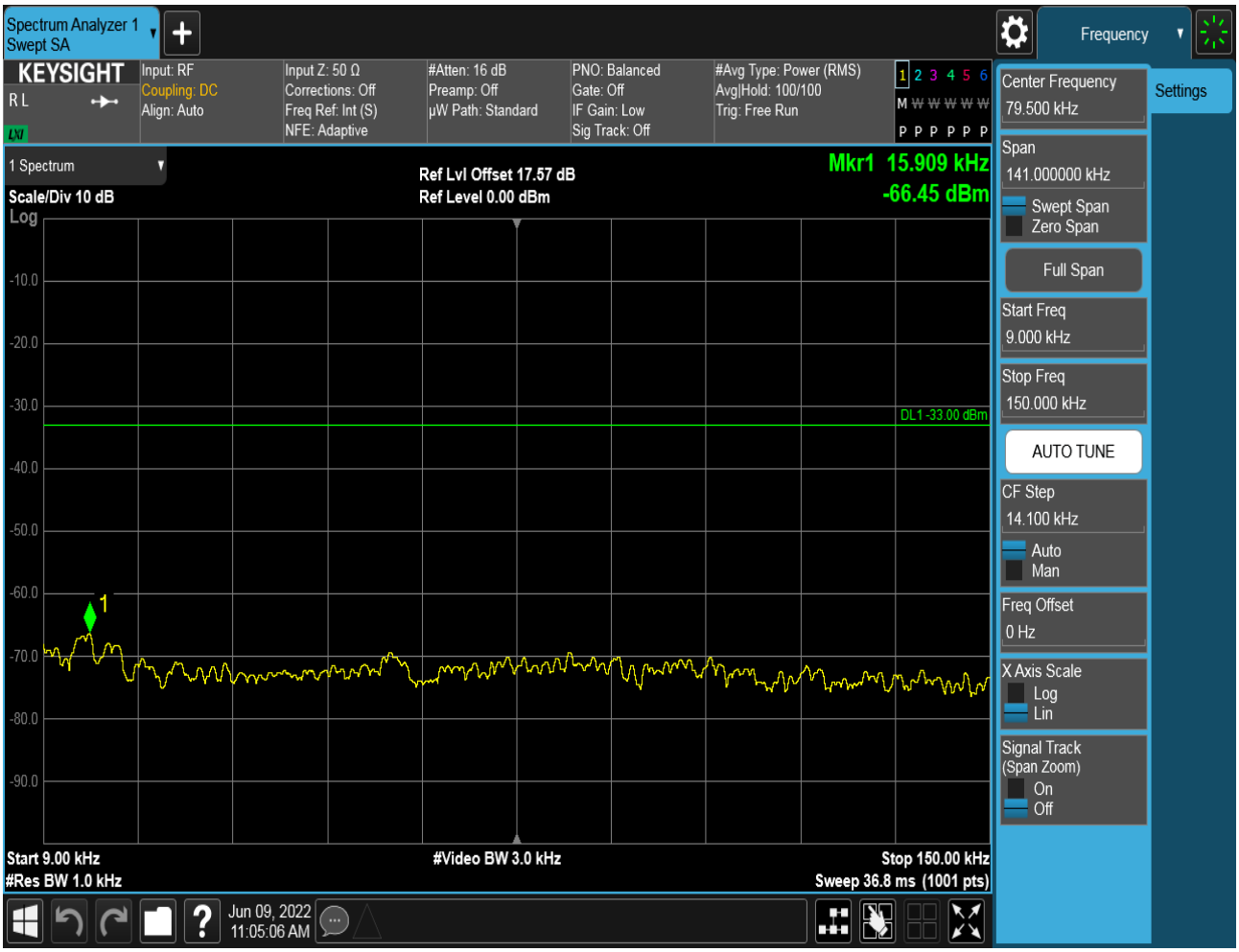
6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0



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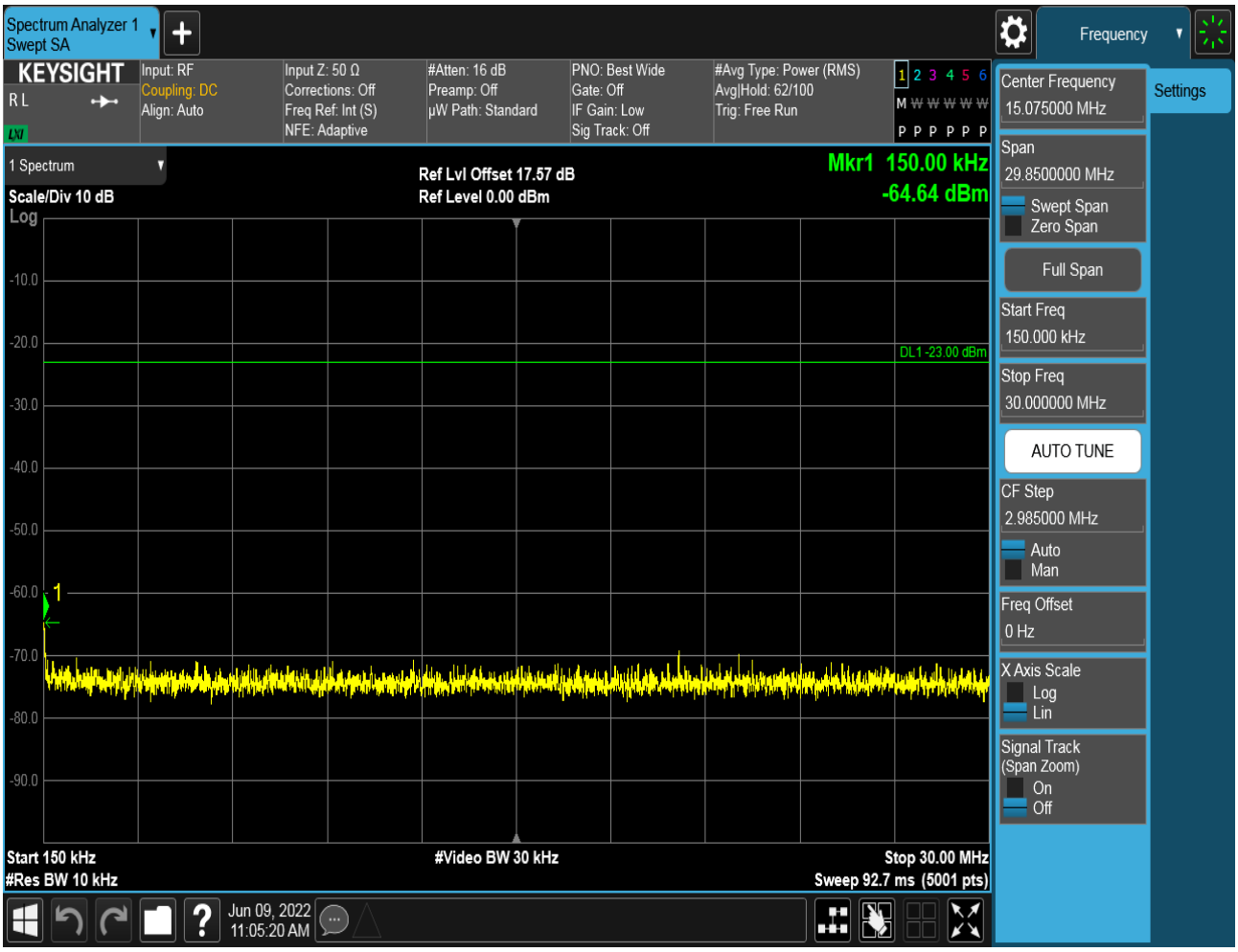

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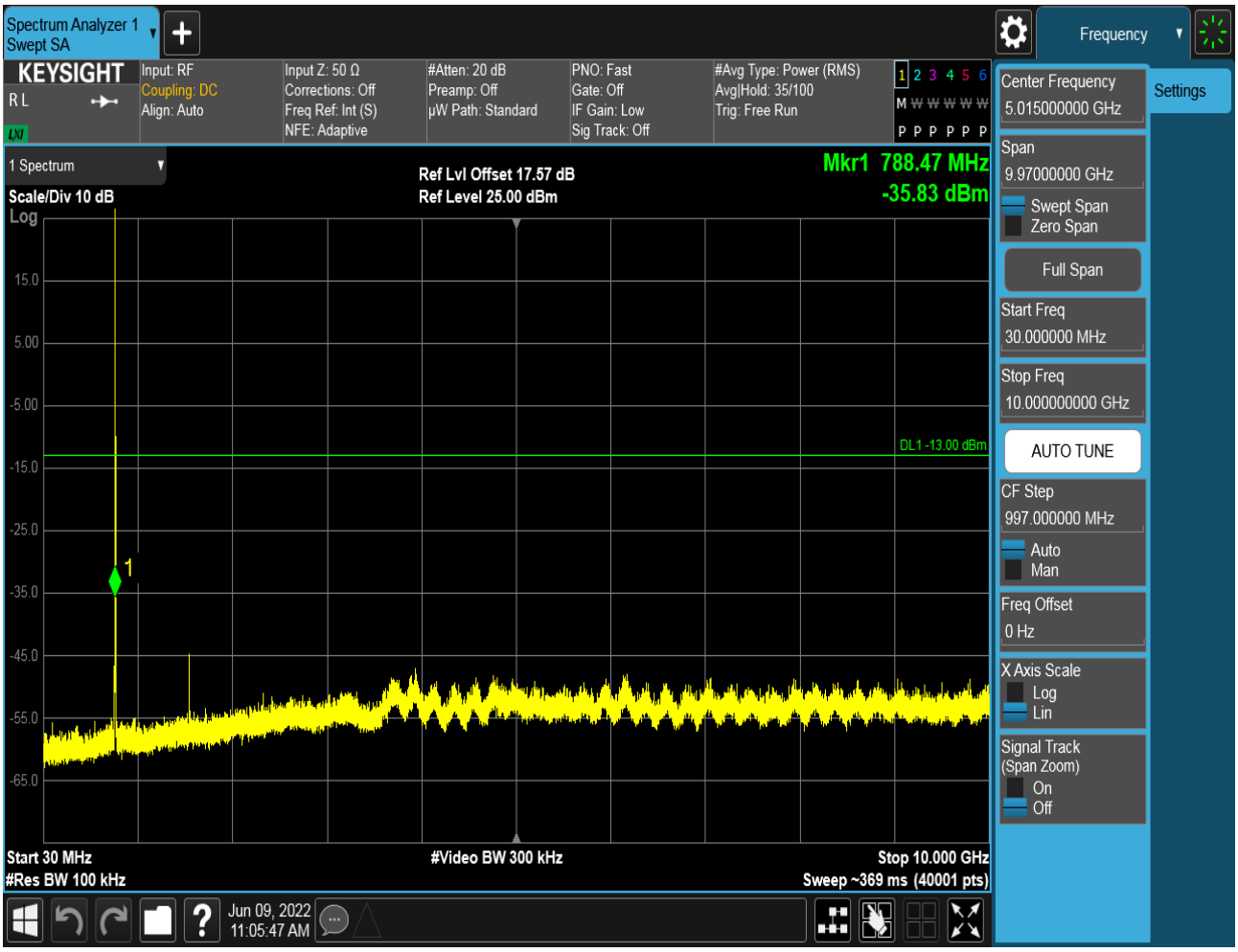

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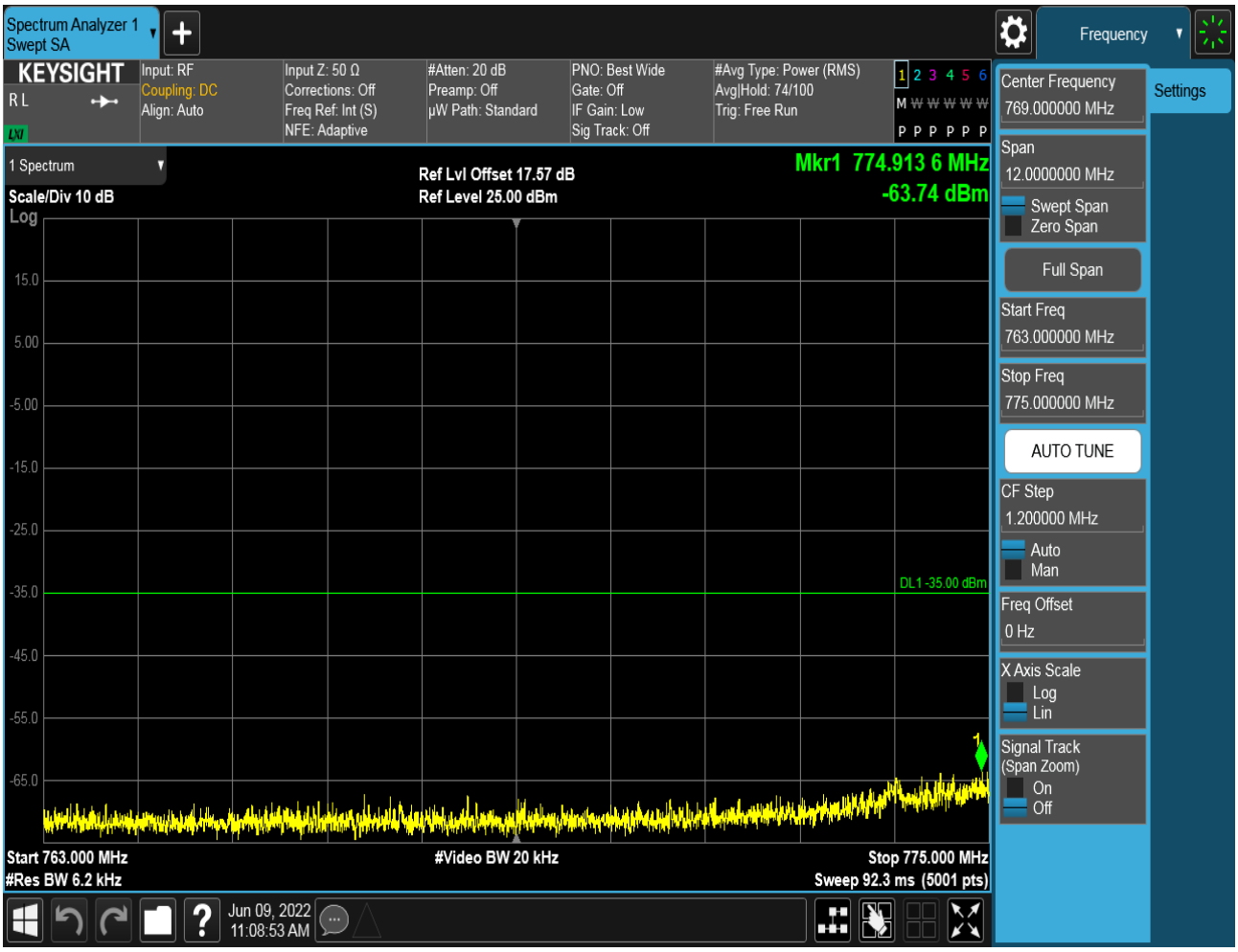

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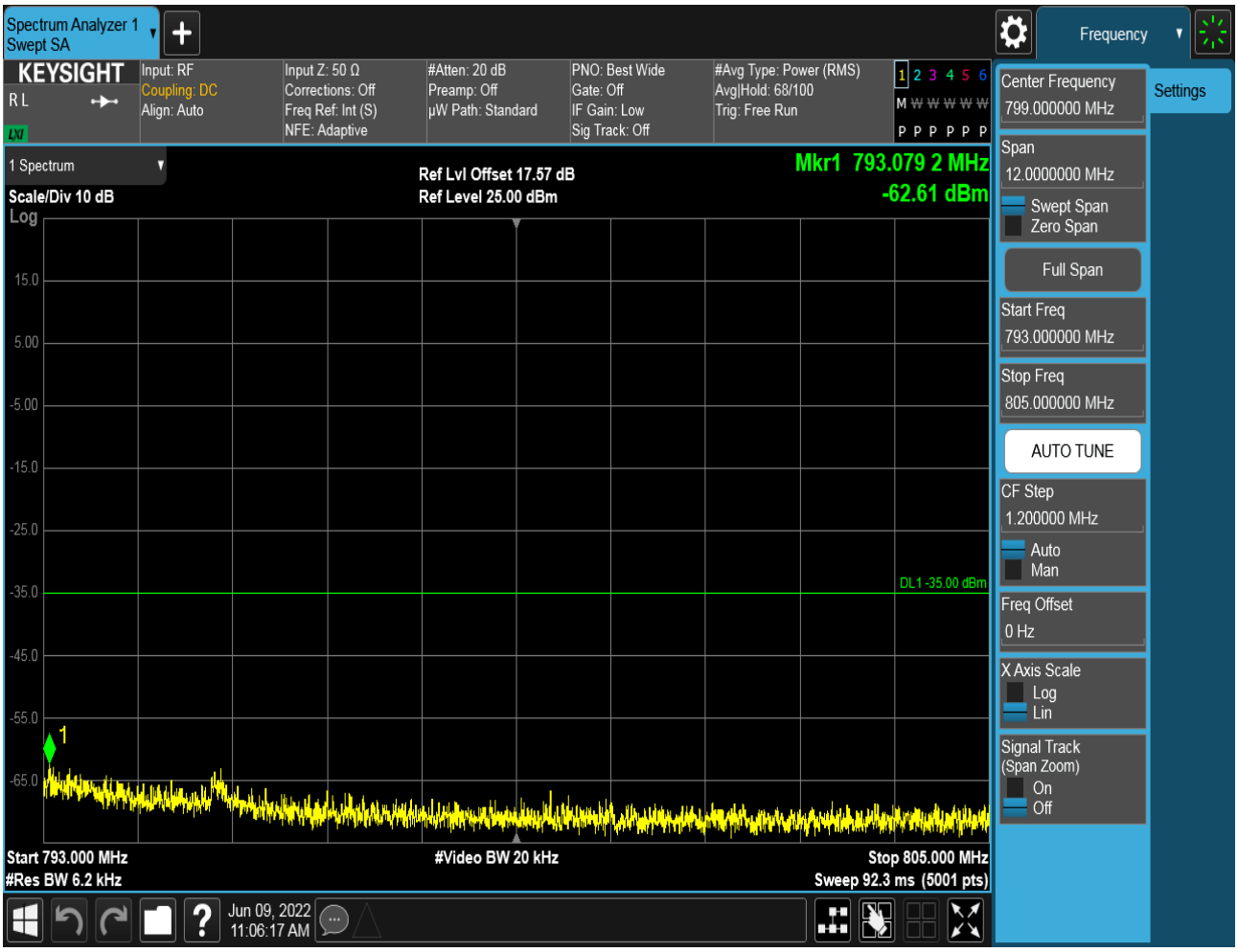

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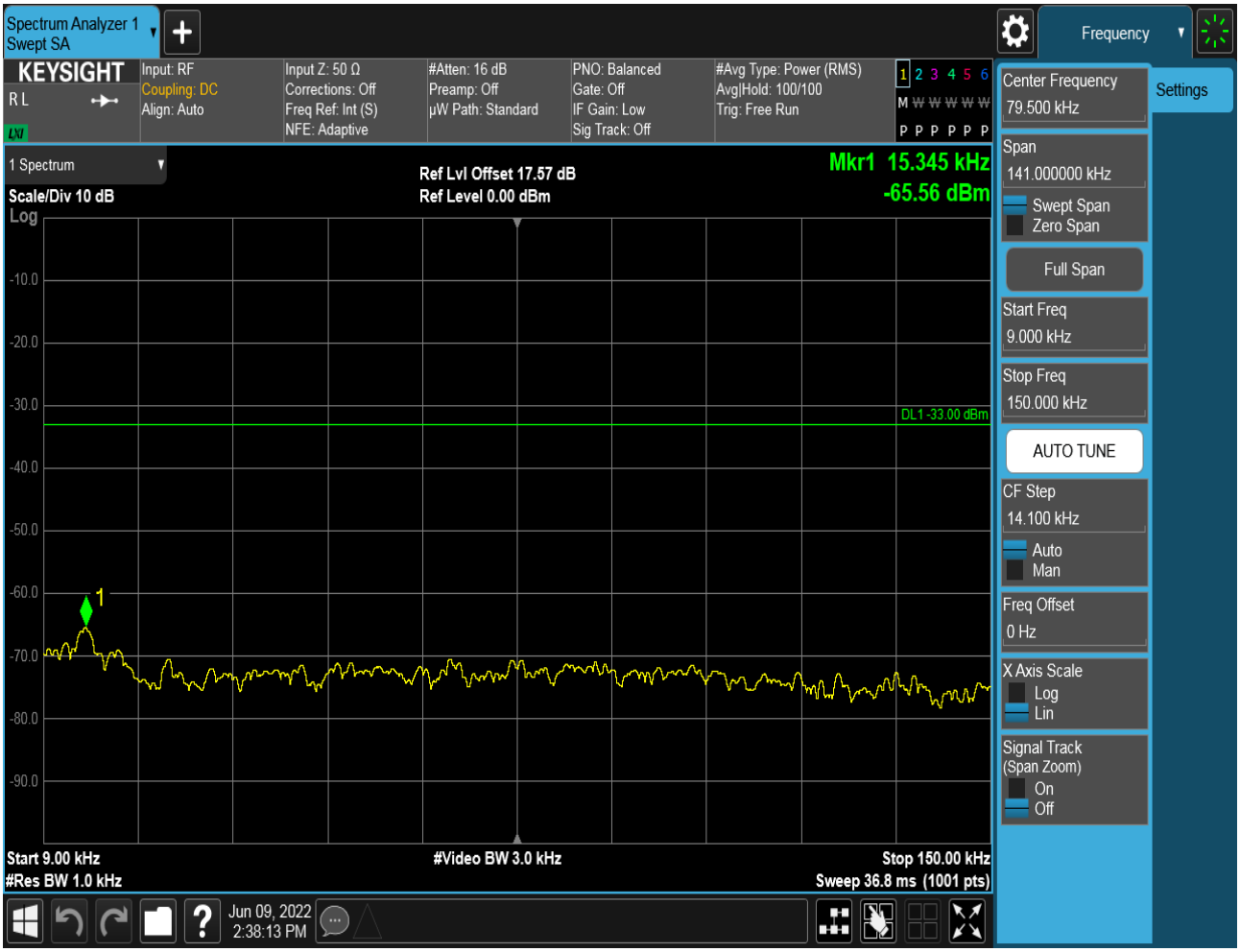
6.2.1.2.4 Test Bandwidth = 10MHz

6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0



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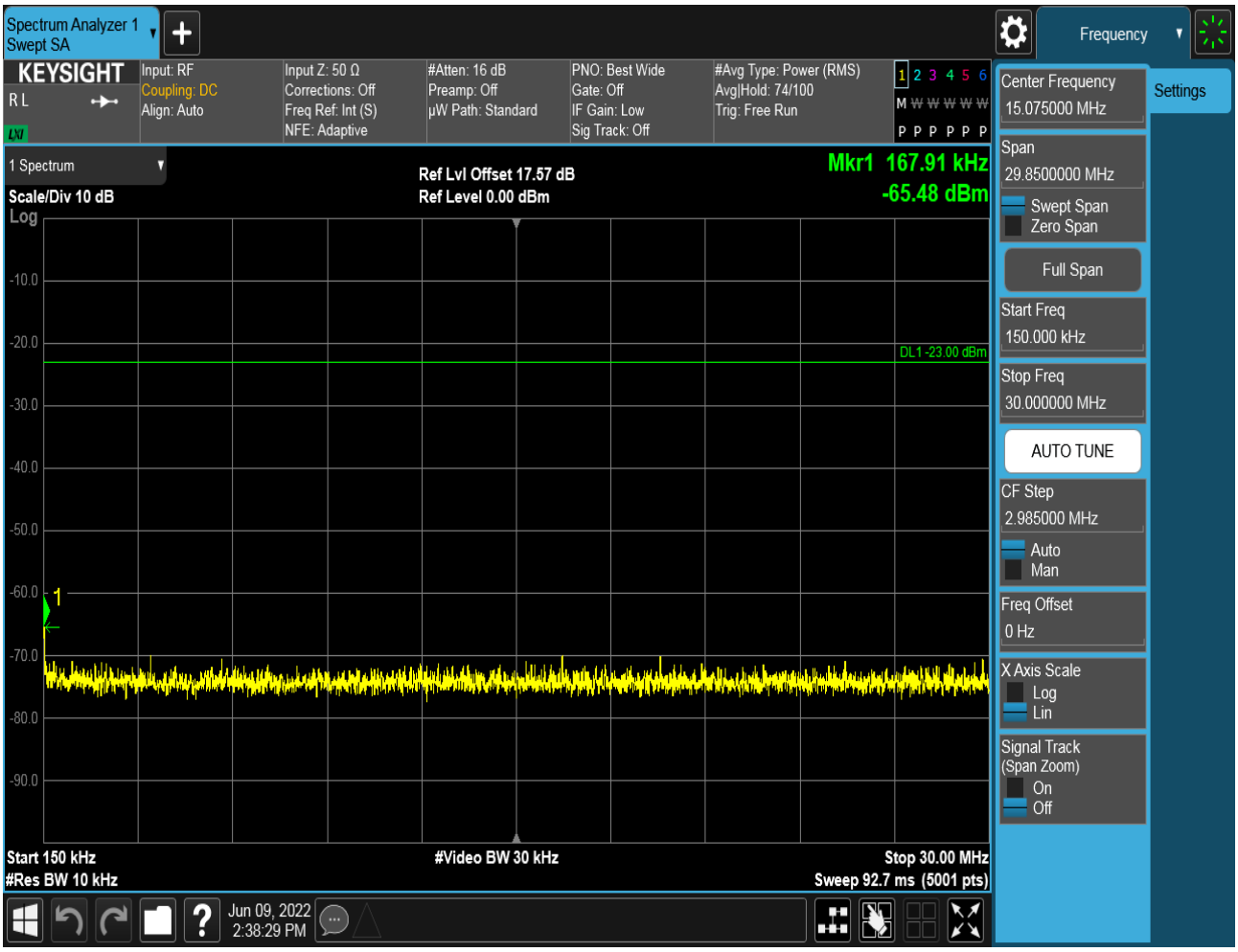

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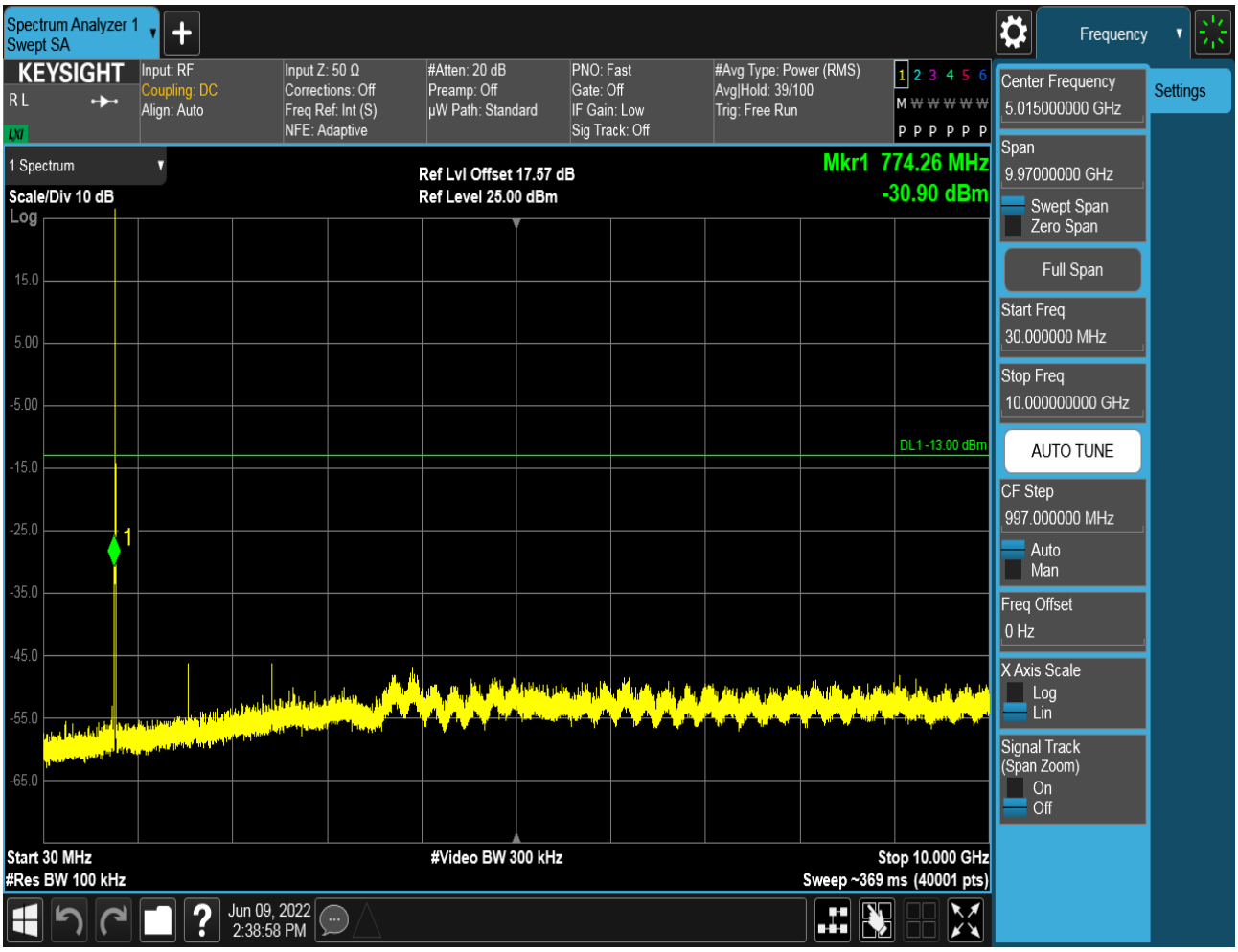

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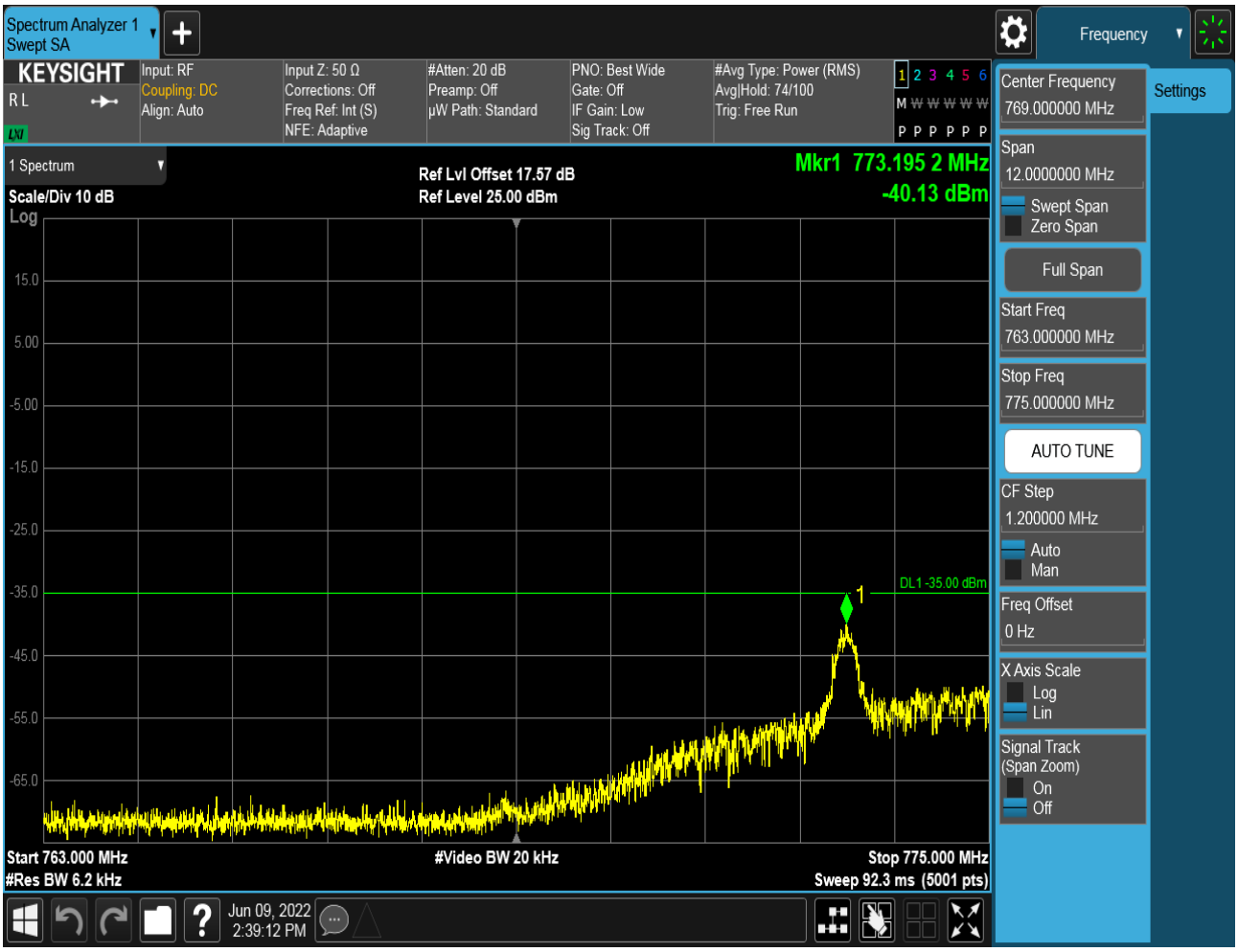

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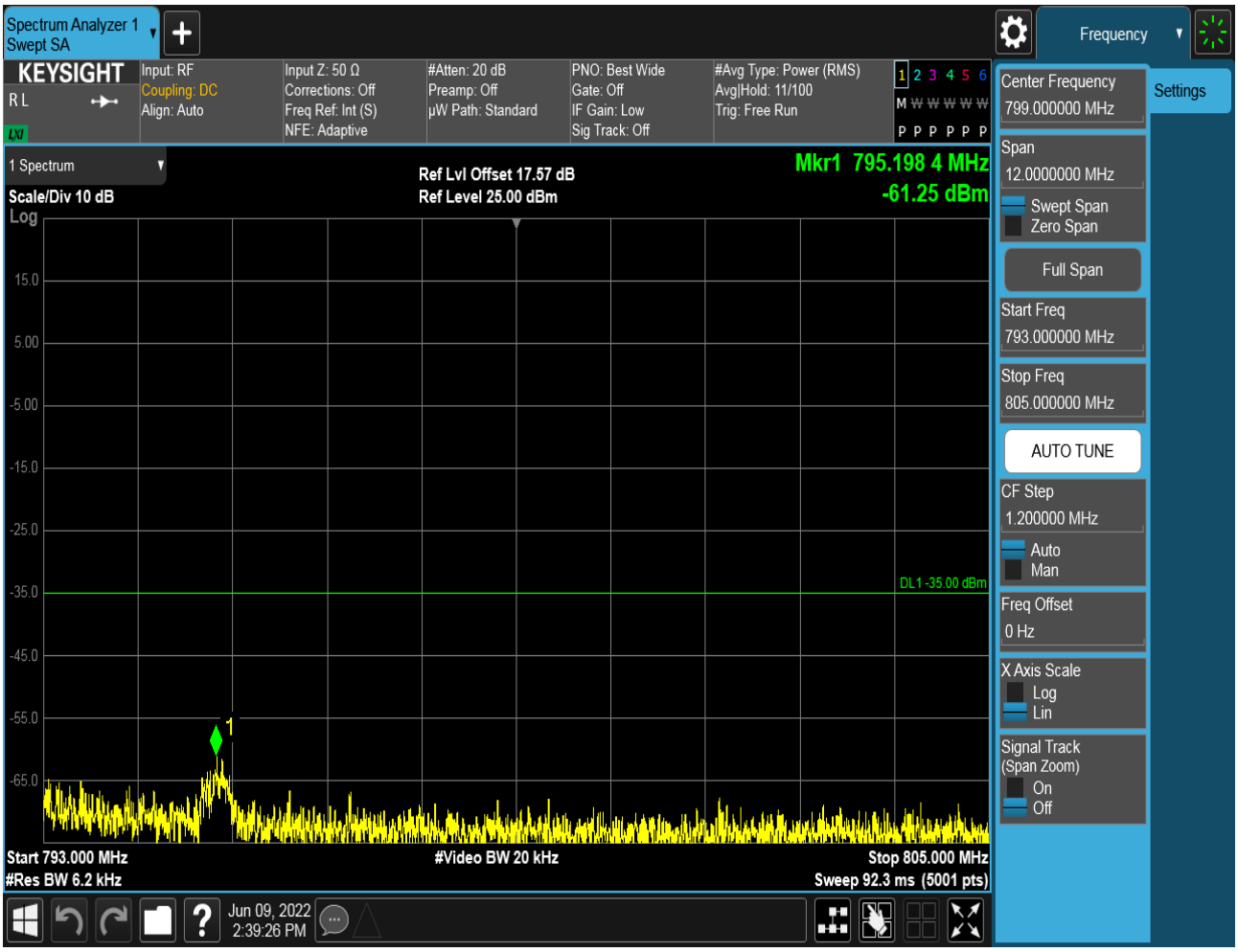

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7Appendix_G: Field Strength of Spurious Radiation

Note 1: We tested all modes & antennas, the data presented below is the worst case.
Note 2: For Below 30MHz, the data presented below is the worst case for all Channel Bandwidth.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

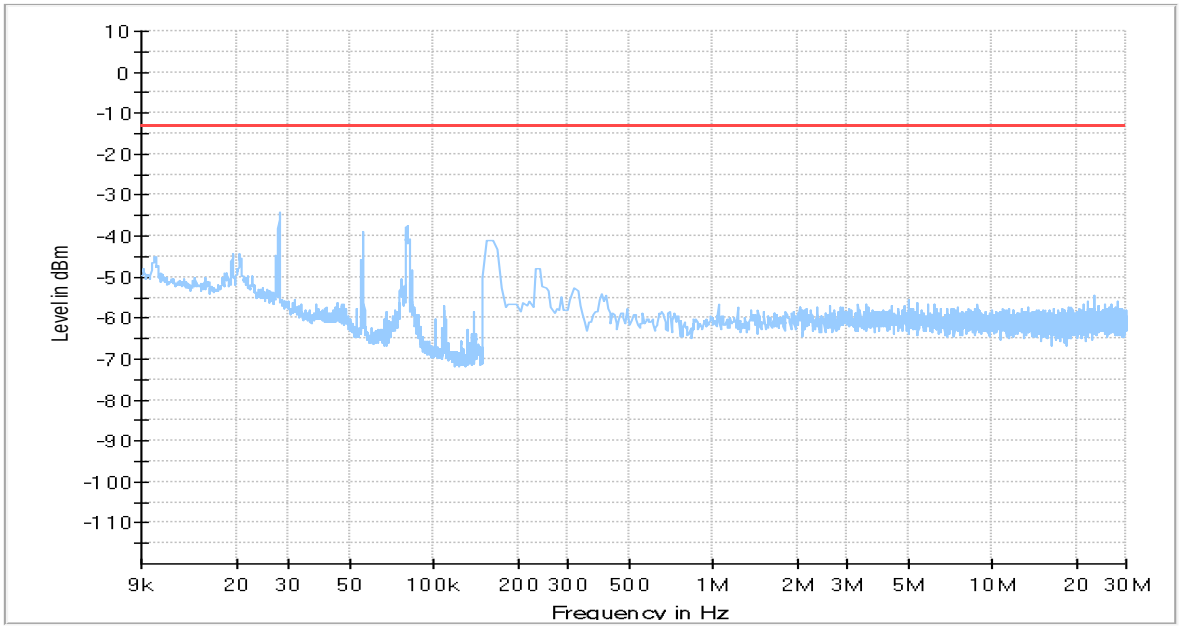
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = Band13

7.1.1.1 Test Bandwidth = 5MHz

Worst case


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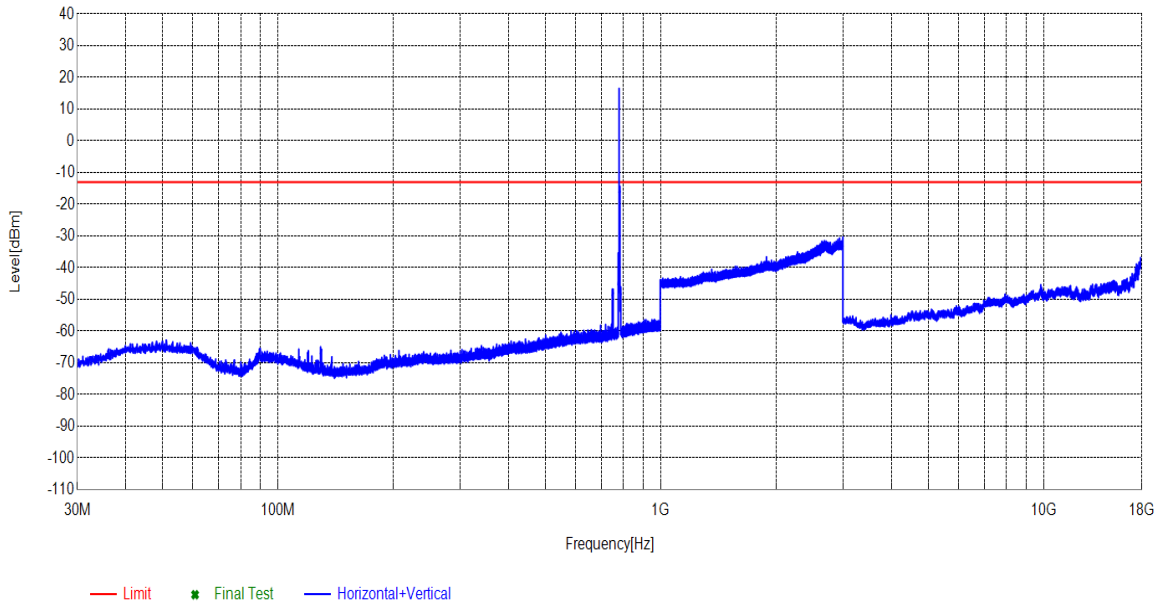
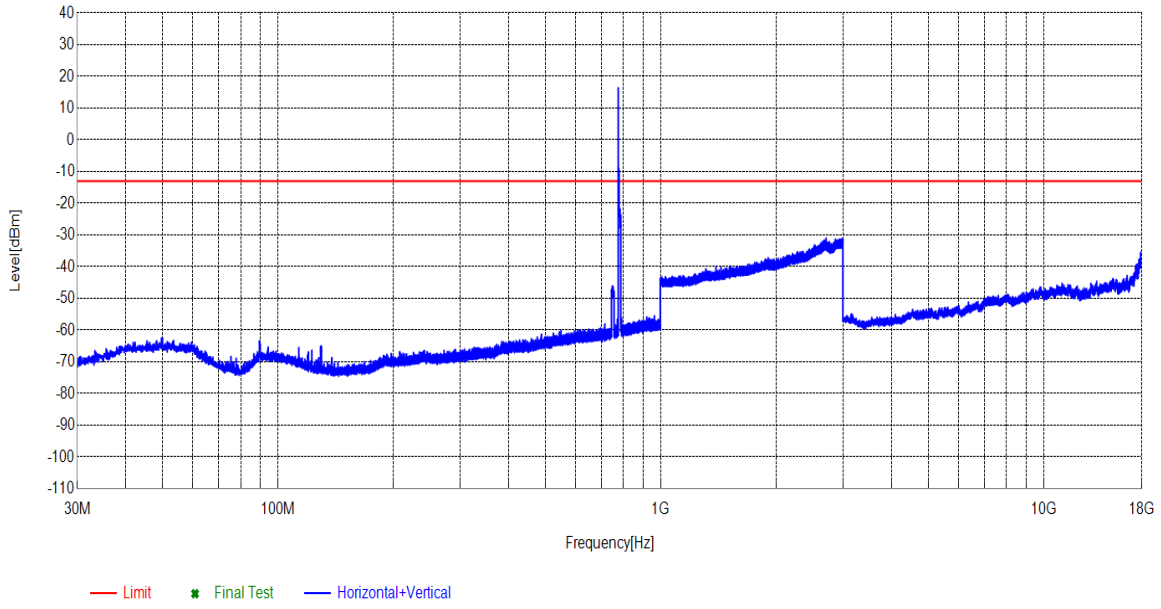


7.1.1.2 Test Bandwidth = 10MHz

Worst case



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8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band13	LTE/TM1	5	LCH	TN	VL	-5.39303	-0.00692	PASS
					VN	0.042915	0.00006	PASS
					VH	-4.37737	-0.00562	PASS
			MCH	TN	VL	-2.532005	-0.00324	PASS
					VN	-3.232956	-0.00413	PASS
					VH	-6.108284	-0.00781	PASS
			HCH	TN	VL	-0.71526	-0.00091	PASS
					VN	-1.07288	-0.00137	PASS
					VH	0.157356	0.0002	PASS
		10	LCH	TN	VL	-5.879402	-0.00752	PASS
					VN	-0.7724762	-0.00099	PASS
					VH	-3.275871	-0.00419	PASS
			MCH	TN	VL	-20.25604	-0.0259	PASS
					VN	-29.86908	-0.0382	PASS
					VH	-24.86229	-0.03179	PASS
			HCH	TN	VL	-28.98216	-0.03706	PASS
					VN	-20.24174	-0.02588	PASS
					VH	-19.65523	-0.02513	PASS
	LTE/TM2	5	LCH	TN	VL	6.651878	0.00853	PASS
					VN	0.457764	0.00059	PASS
					VH	1.988411	0.00255	PASS
			MCH	TN	VL	-3.86238	-0.00492	PASS
					VN	0.228882	0.000295	PASS
					VH	0.994206	0.001275	PASS
			HCH	TN	VL	-9.655952	-0.01235	PASS
					VN	-4.806519	-0.00615	PASS
					VH	-7.610321	-0.00973	PASS
		10	LCH	TN	VL	-4.935265	-0.00631	PASS
					VN	1.28746	0.00165	PASS
					VH	-0.5722046	-0.00073	PASS
			MCH	TN	VL	3.118515	0.00399	PASS
					VN	4.162788	0.00532	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	5.693436	0.00728	PASS
			HCH	TN	VL	0.7724762	0.00099	PASS
					VN	2.746582	0.00351	PASS
					VH	4.062653	0.0052	PASS

8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band13	LTE/TM1	5	LCH	VN	-30	-6.03676	-0.00774	PASS
					-20	0.30041	0.00039	PASS
					-10	0.35763	0.00046	PASS
					0	-0.52929	-0.00068	PASS
					10	-3.03268	-0.00389	PASS
					20	-0.14305	-0.00018	PASS
					30	2.91824	0.00374	PASS
					40	-0.61512	-0.00079	PASS
					50	-5.92232	-0.00760	PASS
			MCH	VN	-30	-2.90394	-0.00371	PASS
					-20	0.07153	0.00009	PASS
					-10	-3.60489	-0.00461	PASS
					0	-4.32015	-0.00552	PASS
					10	-2.08855	-0.00267	PASS
					20	0.31471	0.00040	PASS
					30	-5.97954	-0.00765	PASS
					40	-0.38624	-0.00049	PASS
					50	0.58651	0.00075	PASS
			HCH	VN	-30	-3.43323	-0.00438	PASS
					-20	-2.66075	-0.00339	PASS
					-10	-6.45161	-0.00822	PASS
					0	-5.50747	-0.00702	PASS
					10	-6.35147	-0.00810	PASS
					20	-5.27859	-0.00673	PASS
					30	-8.22544	-0.01048	PASS
					40	-6.35147	-0.00810	PASS
					50	-4.01974	-0.00512	PASS
		10	MCH	VN	-30	1.53065	0.00196	PASS
					-20	-5.26428	-0.00673	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-0.78678	-0.00101	PASS
					0	-4.92096	-0.00629	PASS
					10	8.22544	0.01052	PASS
					20	-0.37193	-0.00048	PASS
					30	-2.11716	-0.00271	PASS
					40	-15.99312	-0.02045	PASS
					50	-3.19004	-0.00408	PASS
	LTE/TM2	5	LCH	VN	-30	-0.81539	-0.00105	PASS
					-20	1.54495	0.00198	PASS
					-10	5.49316	0.00705	PASS
					0	-4.20570	-0.00540	PASS
					10	5.49316	0.00705	PASS
					20	5.99384	0.00769	PASS
					30	-1.24455	-0.00160	PASS
					40	-13.40389	-0.01720	PASS
					50	-3.97682	-0.00510	PASS
			MCH	VN	-30	-0.60081	-0.00077	PASS
					-20	-4.46320	-0.00571	PASS
					-10	-2.08855	-0.00267	PASS
					0	-7.65324	-0.00979	PASS
					10	-8.59737	-0.01099	PASS
					20	-3.51906	-0.00450	PASS
					30	0.35763	0.00046	PASS
					40	-0.60081	-0.00077	PASS
					50	-0.24319	-0.00031	PASS
			HCH	VN	-30	-2.50339	-0.00319	PASS
					-20	1.43051	0.00182	PASS
					-10	5.63621	0.00718	PASS
					0	0.00000	0.00000	PASS
					10	9.51290	0.01213	PASS
					20	-6.02245	-0.00768	PASS
					30	-12.91752	-0.01647	PASS
					40	3.47614	0.00443	PASS
					50	-3.60489	-0.00460	PASS
		10	MCH	VN	-30	-7.71046	-0.00986	PASS
					-20	0.30041	0.00038	PASS
					-10	5.86510	0.00750	PASS
					0	0.14305	0.00018	PASS
					10	3.00407	0.00384	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	10.07080	0.01288	PASS
					30	6.15120	0.00787	PASS
					40	2.01702	0.00258	PASS
					50	0.05722	0.00007	PASS

END

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