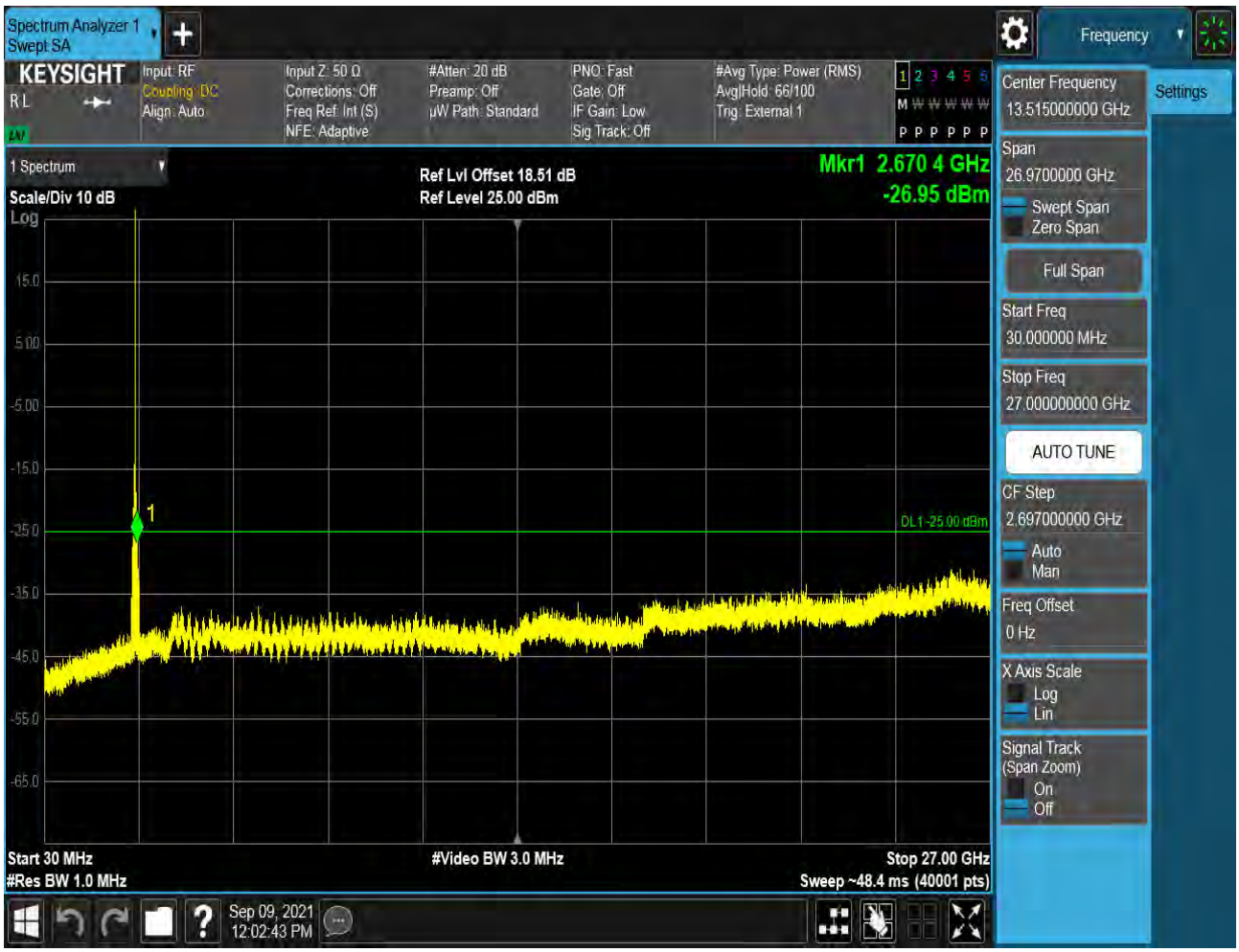
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

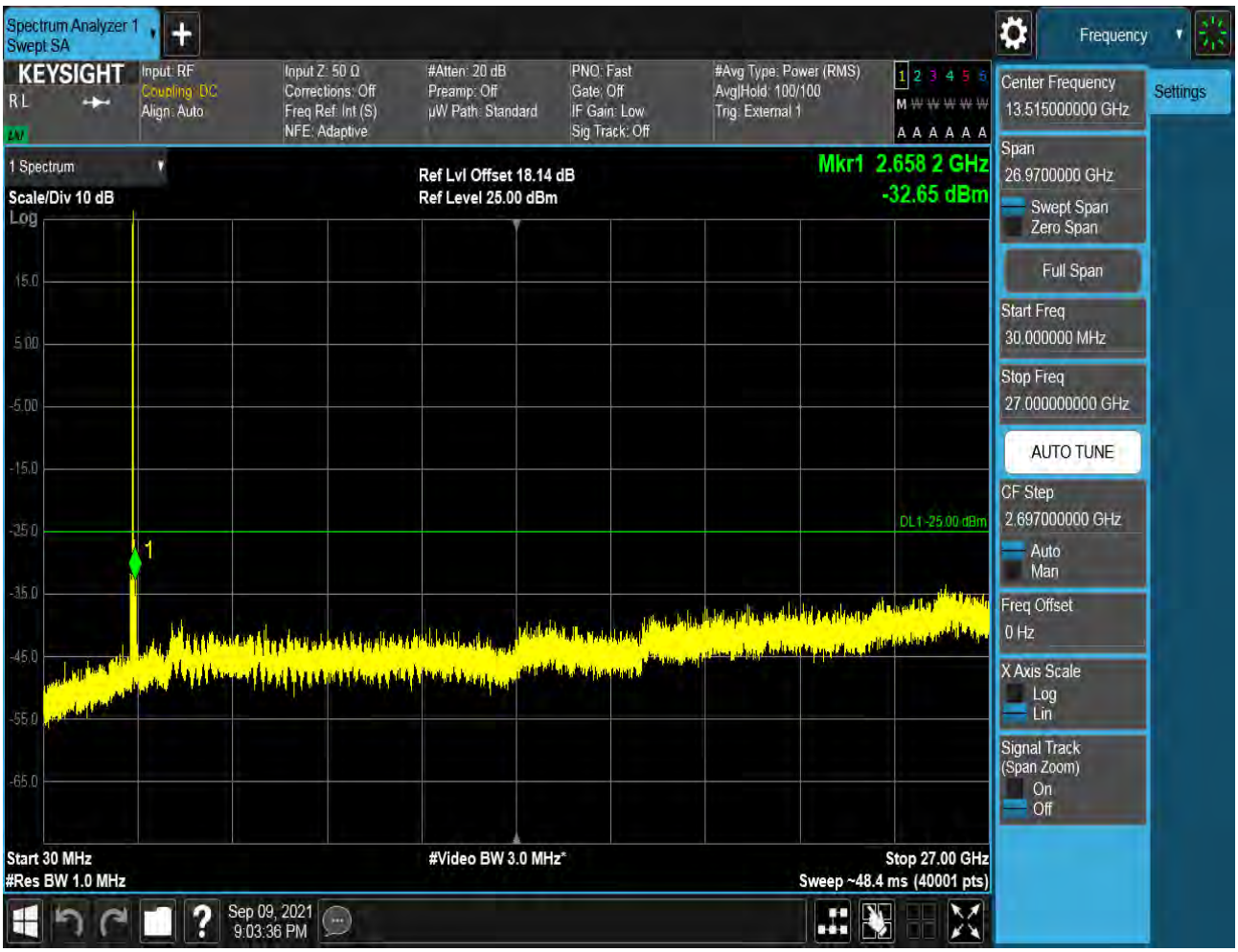
6.2.1.1.4 Test Bandwidth = 20

6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

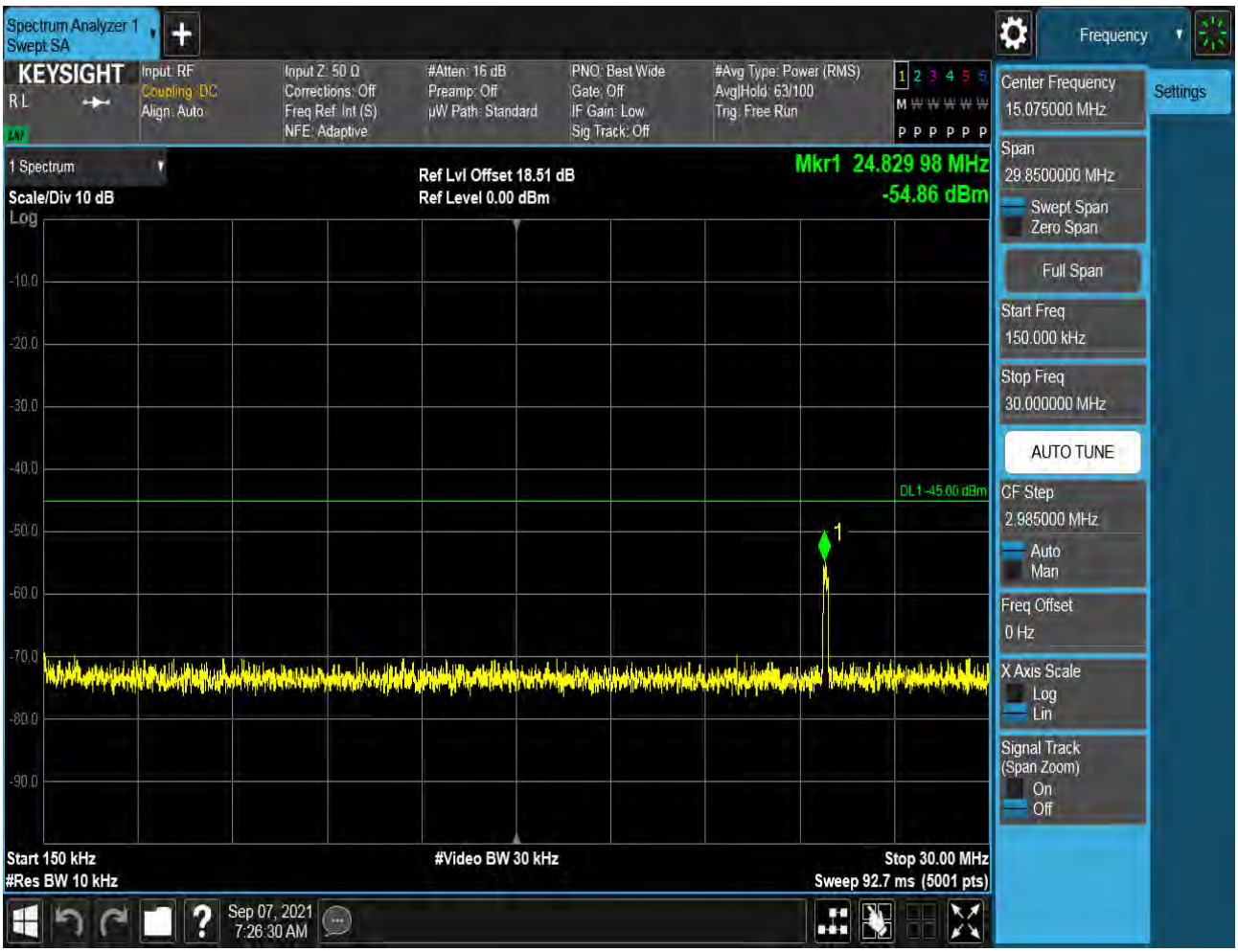


Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

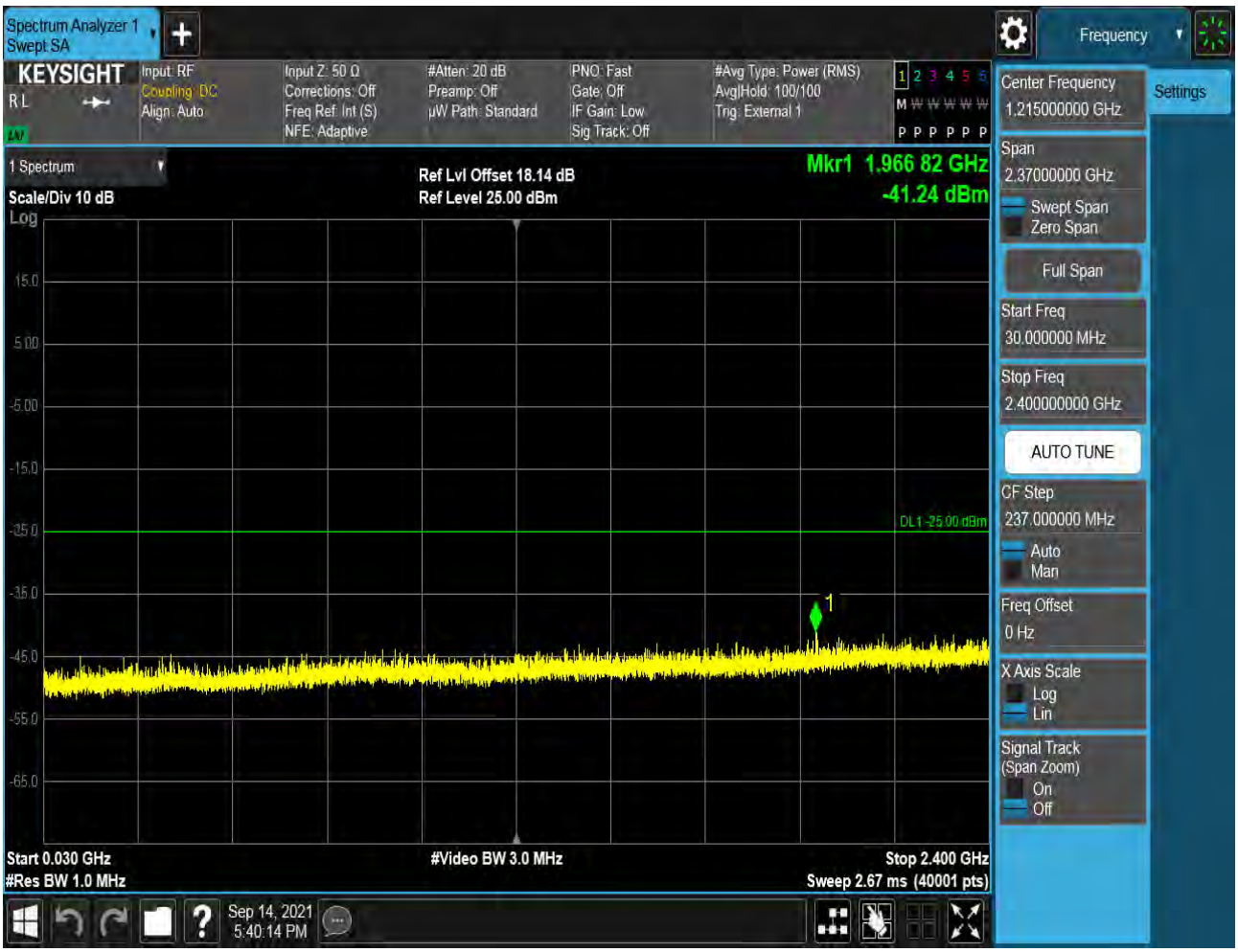
6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0

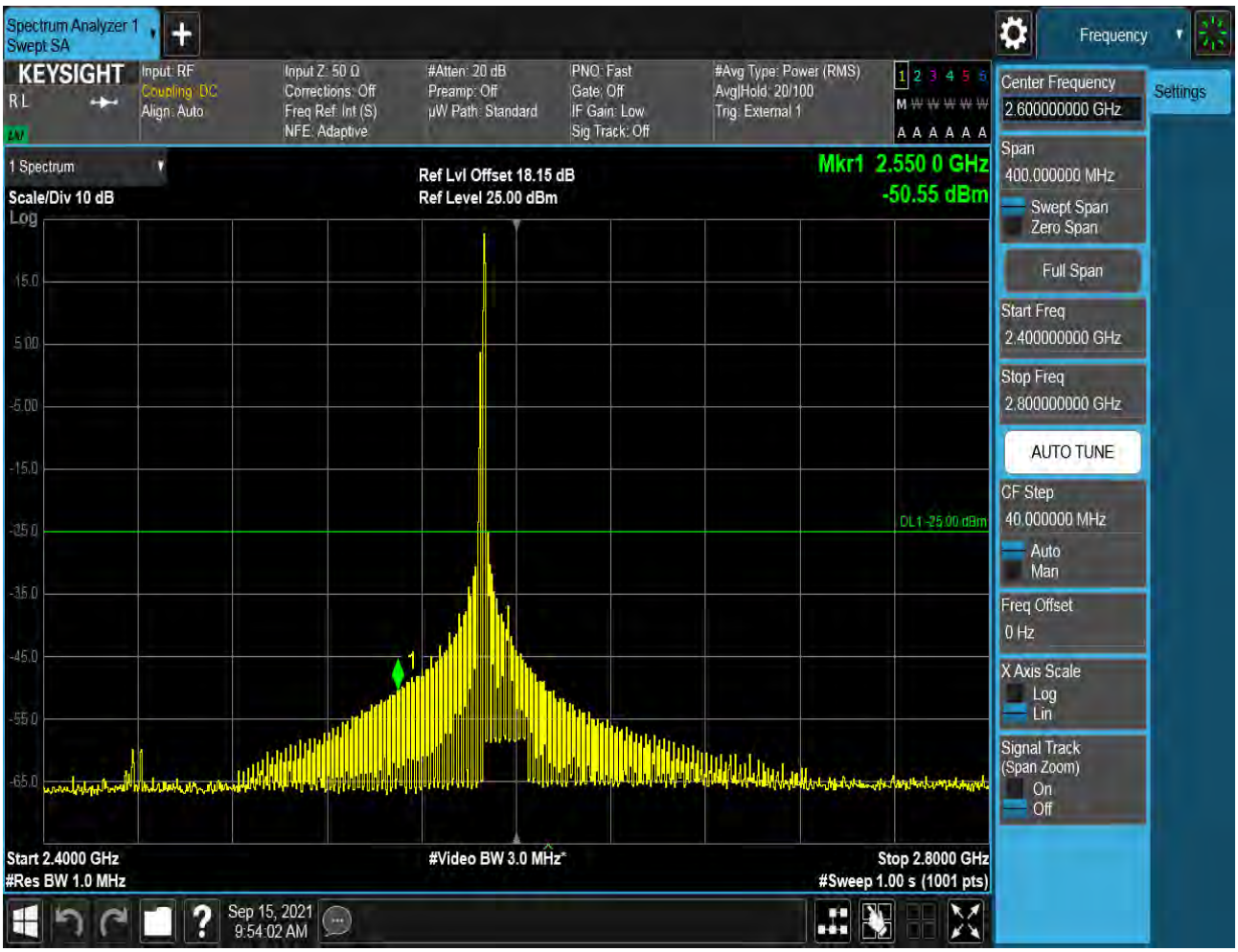
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



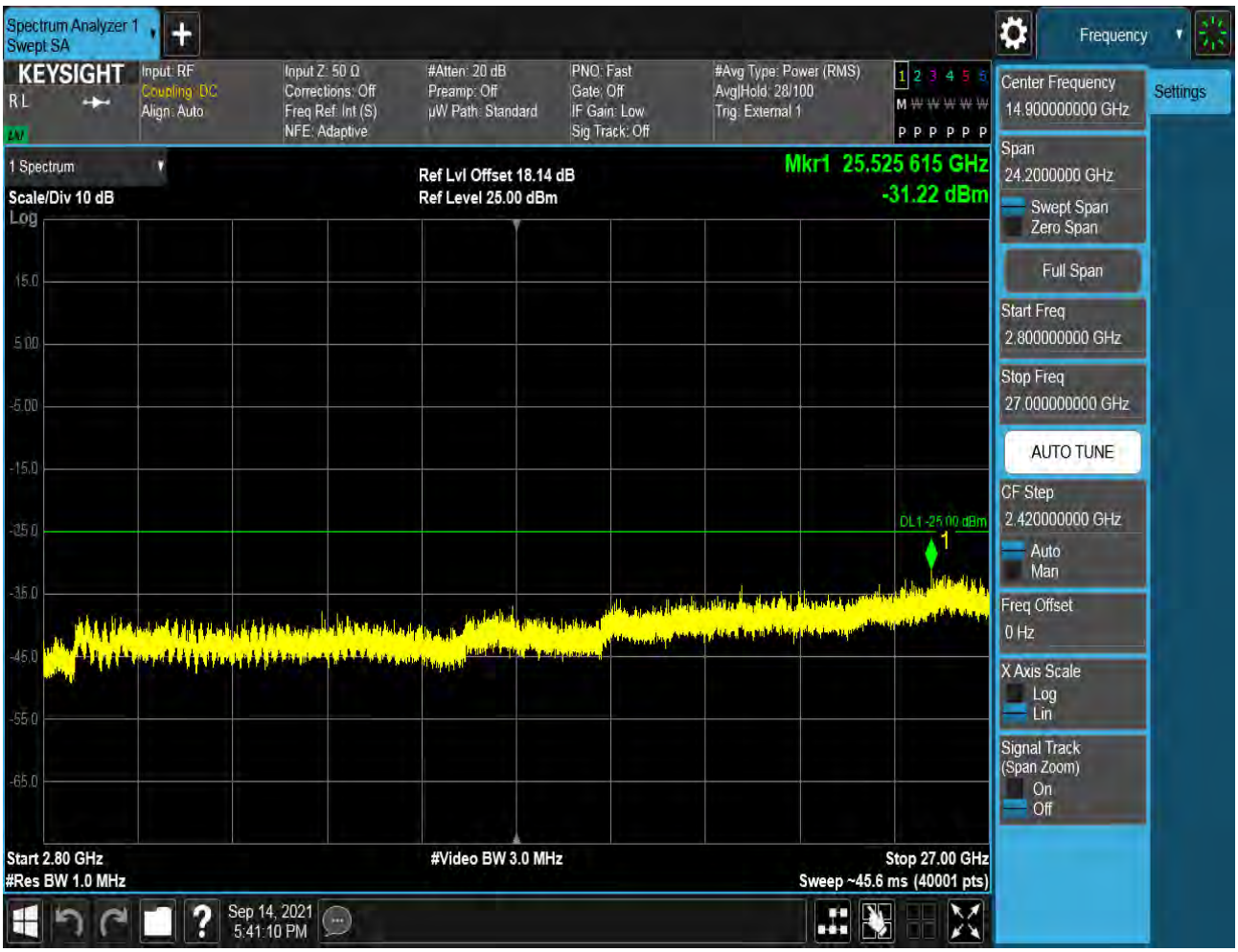
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

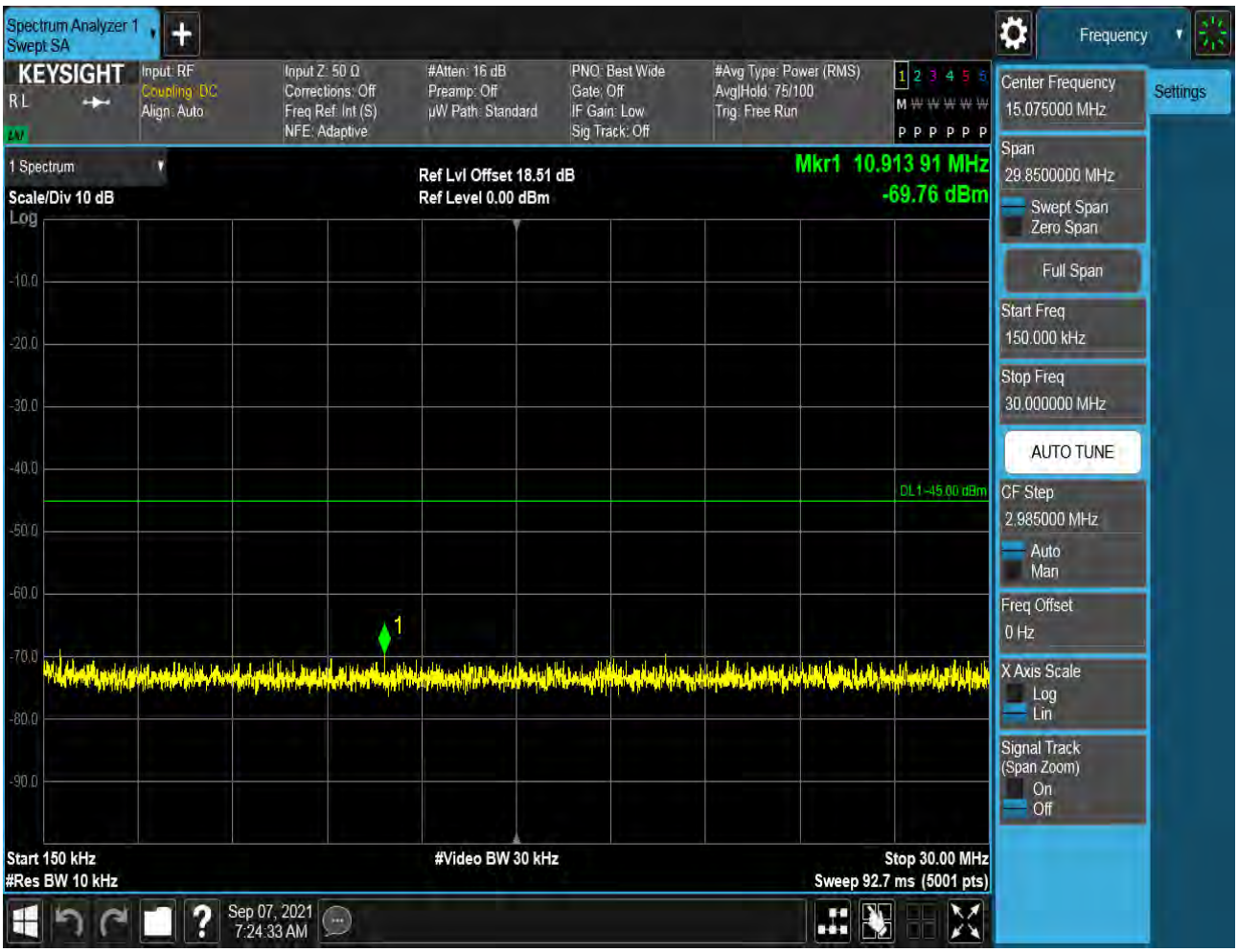


Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

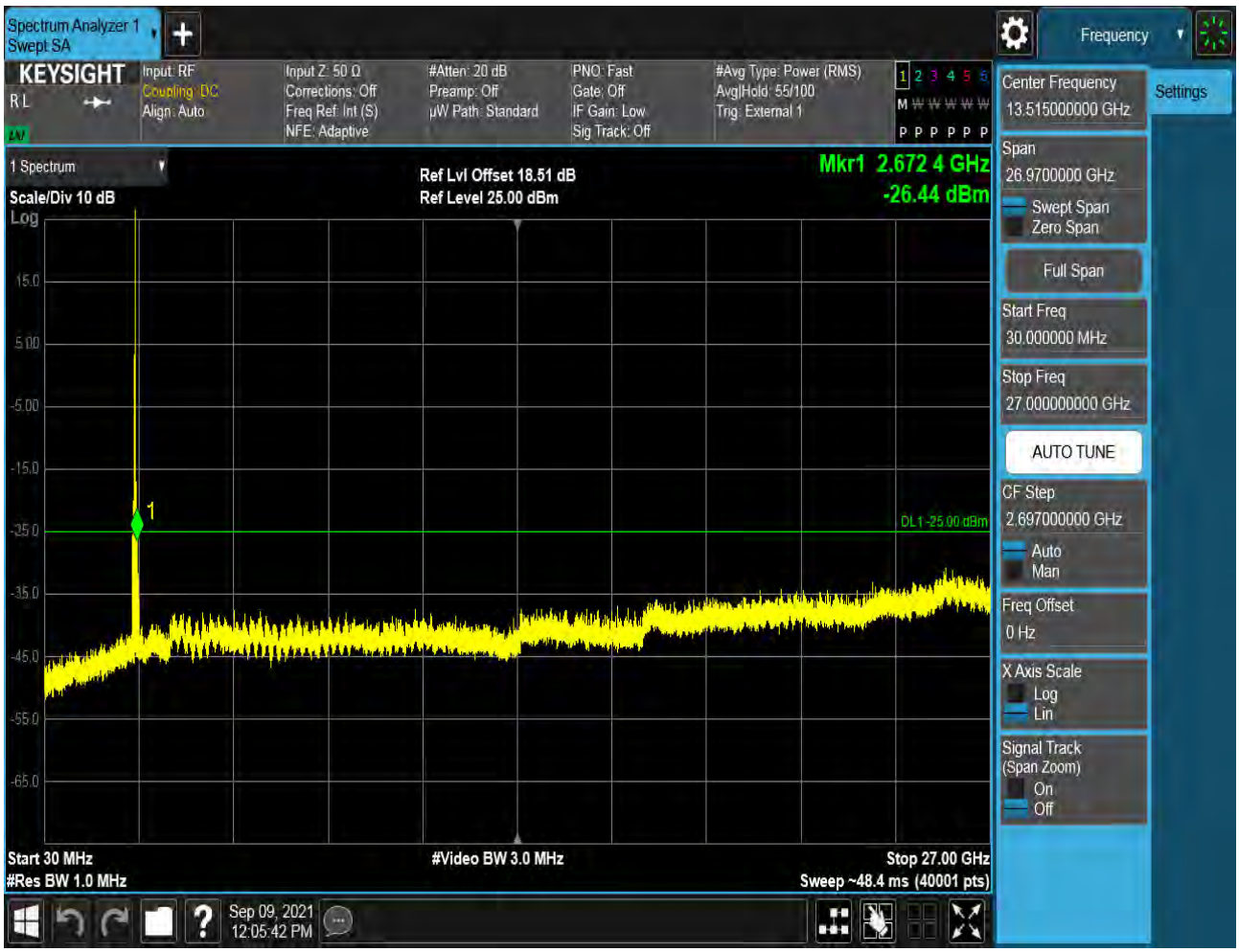
6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



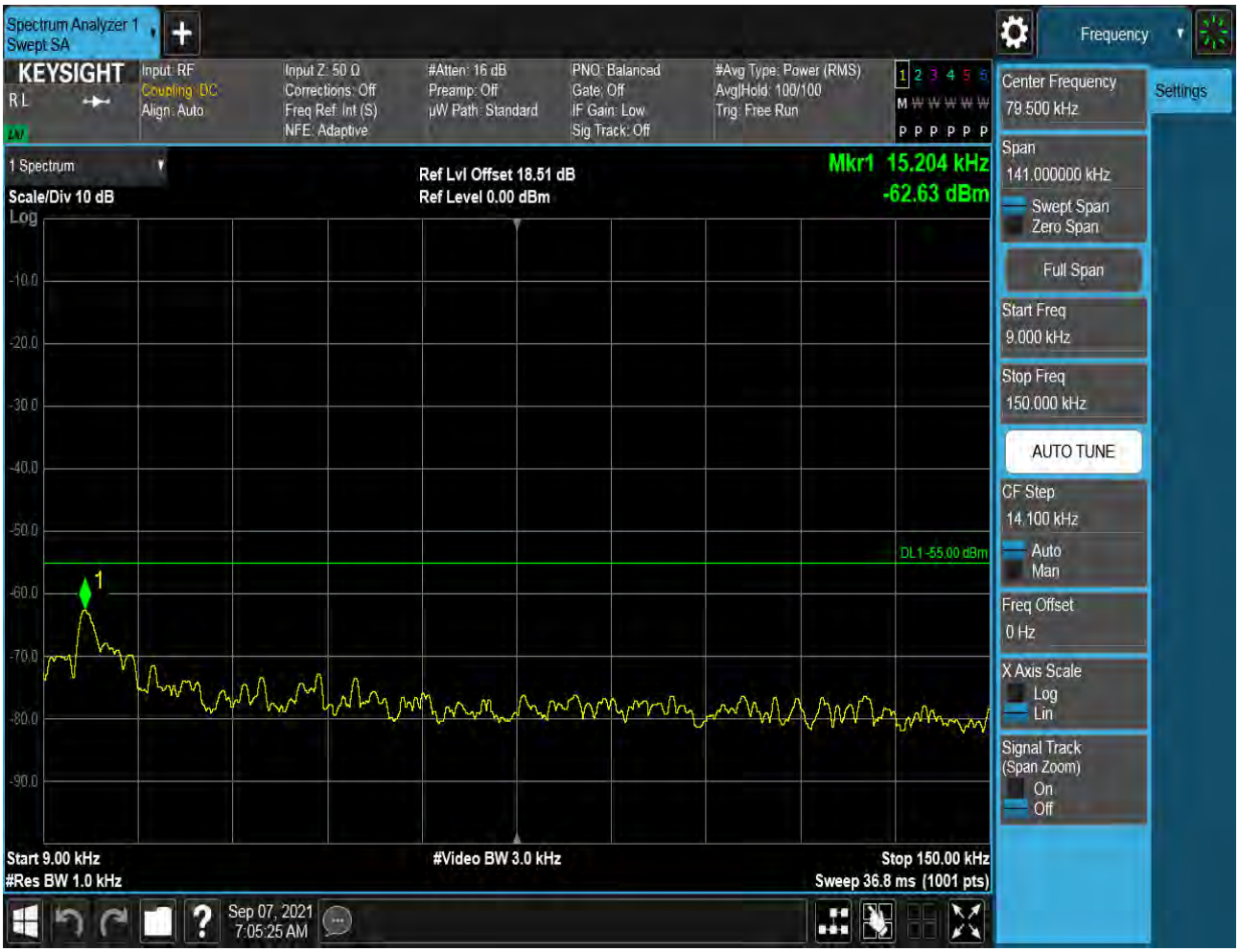
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2 Test Mode = LTE/TM2

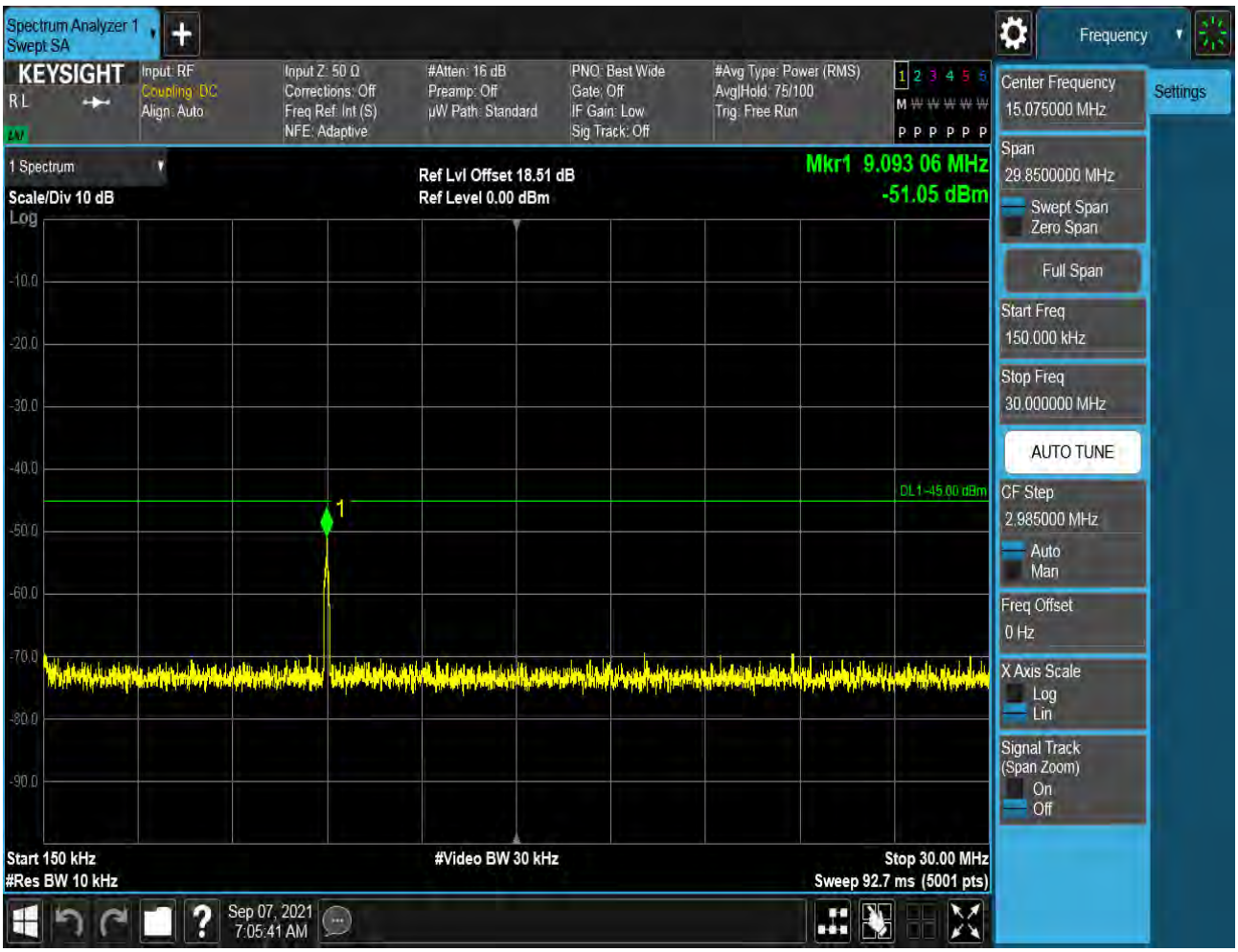
6.2.1.2.1 Test Bandwidth = 5

6.2.1.2.1.1 Test Channel = LCH

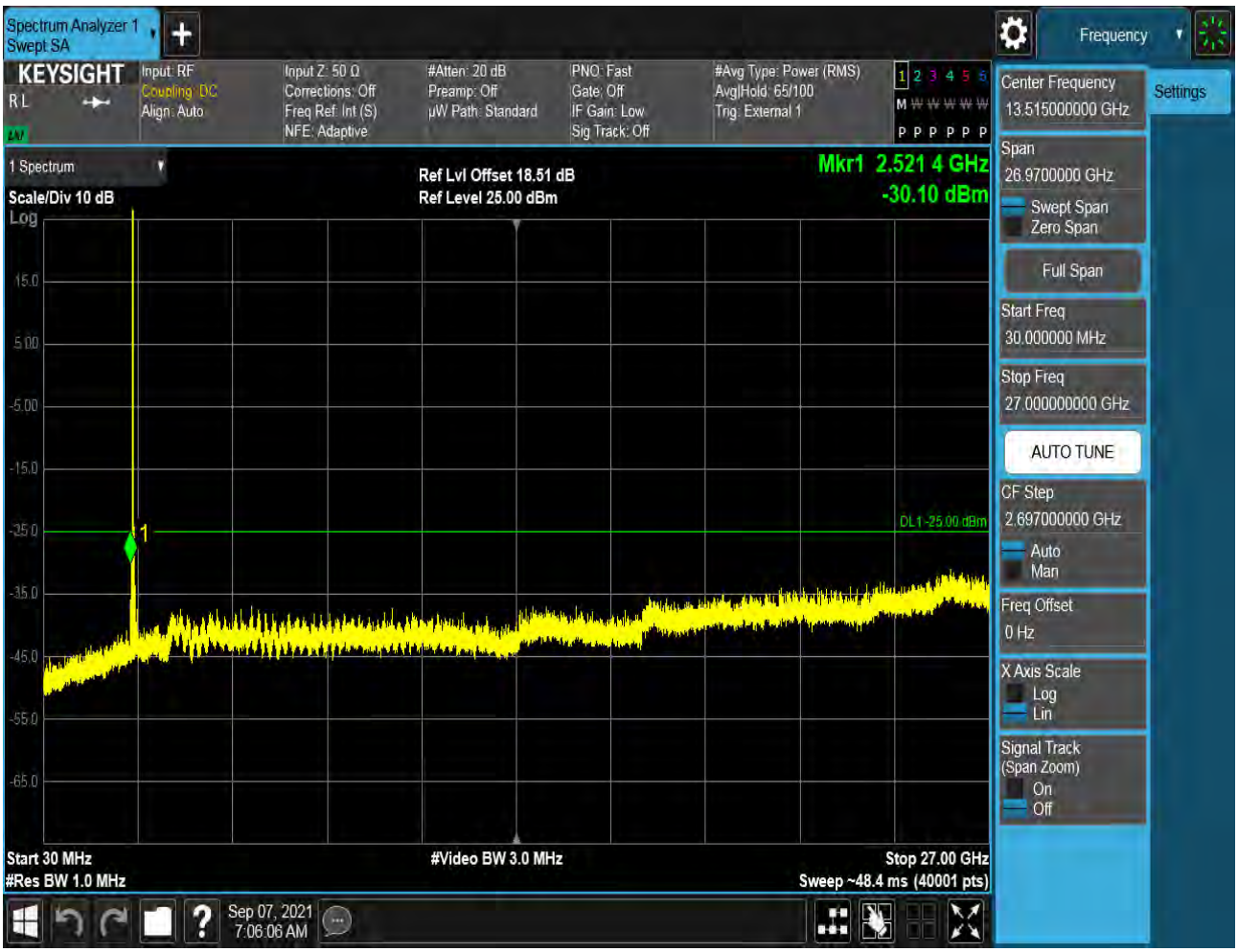
6.2.1.2.1.1.1 Test RB = RB1#0



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



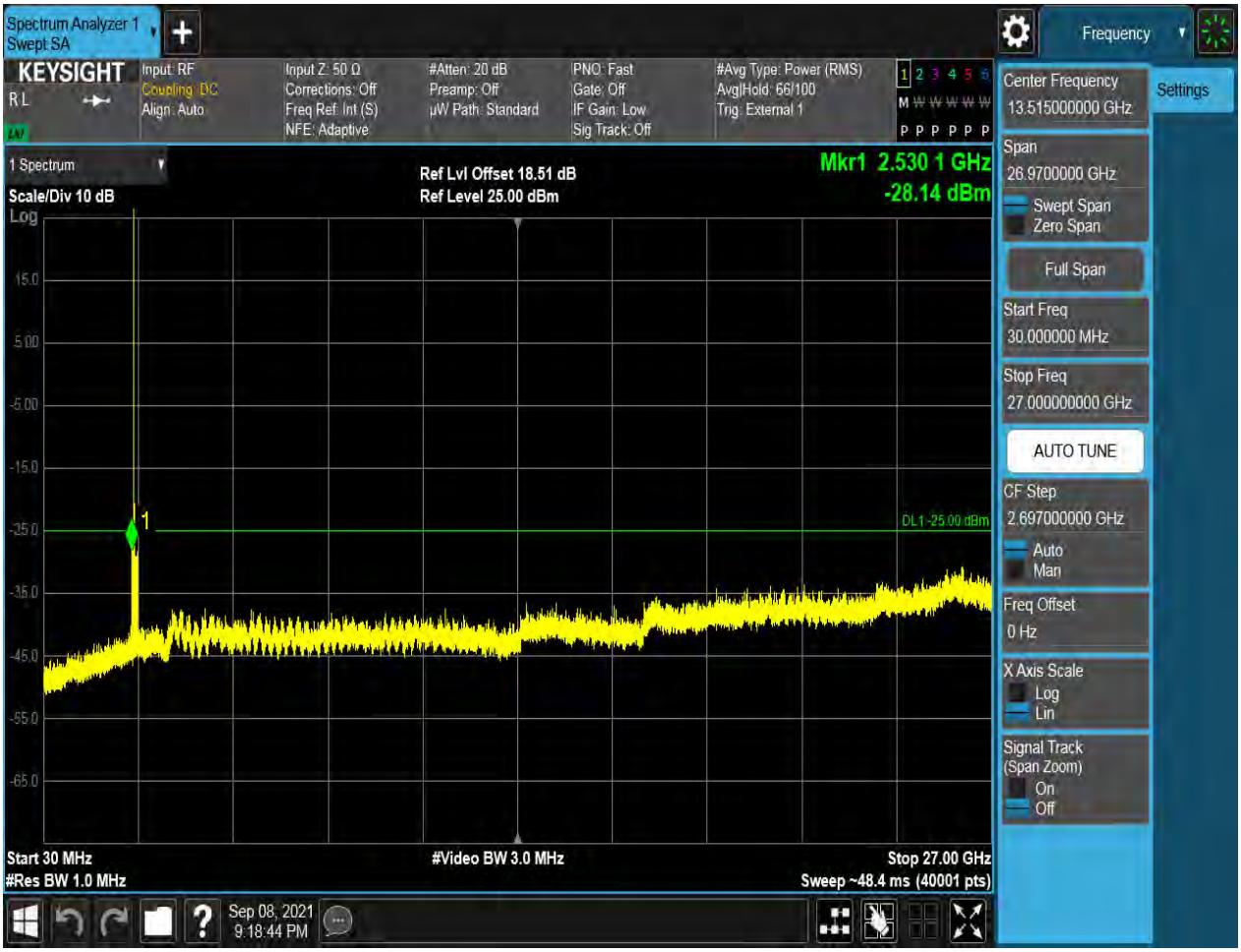
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



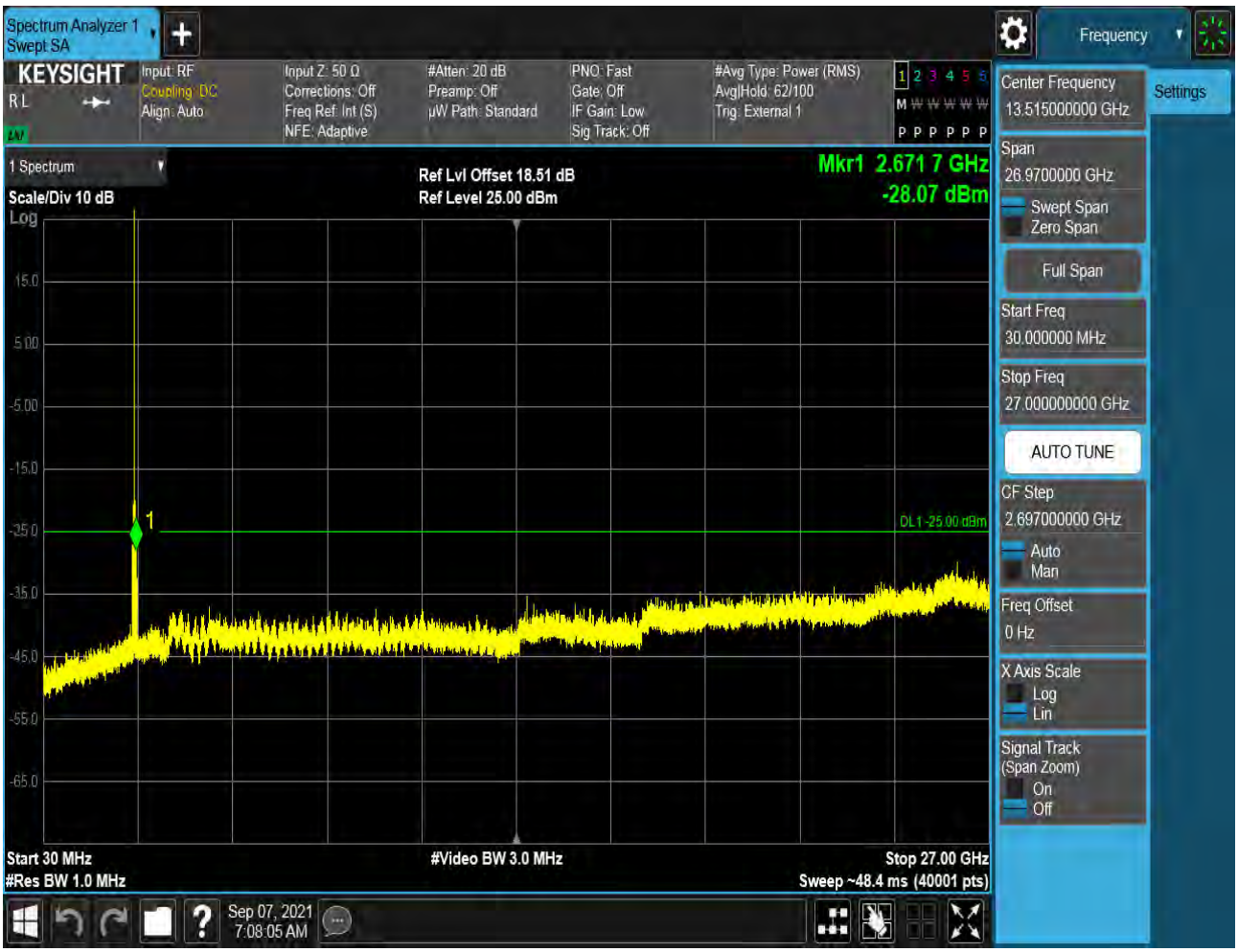
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

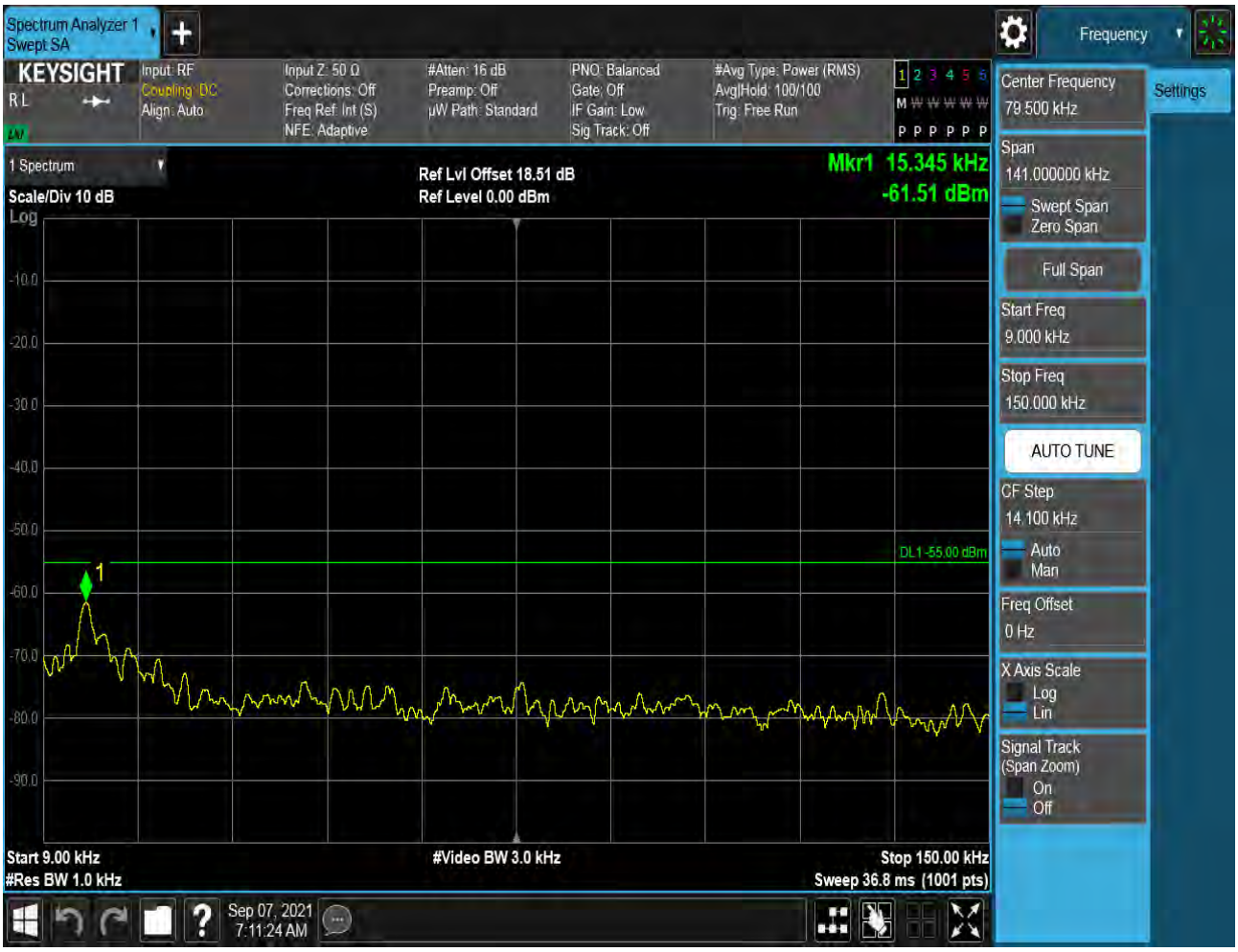


Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

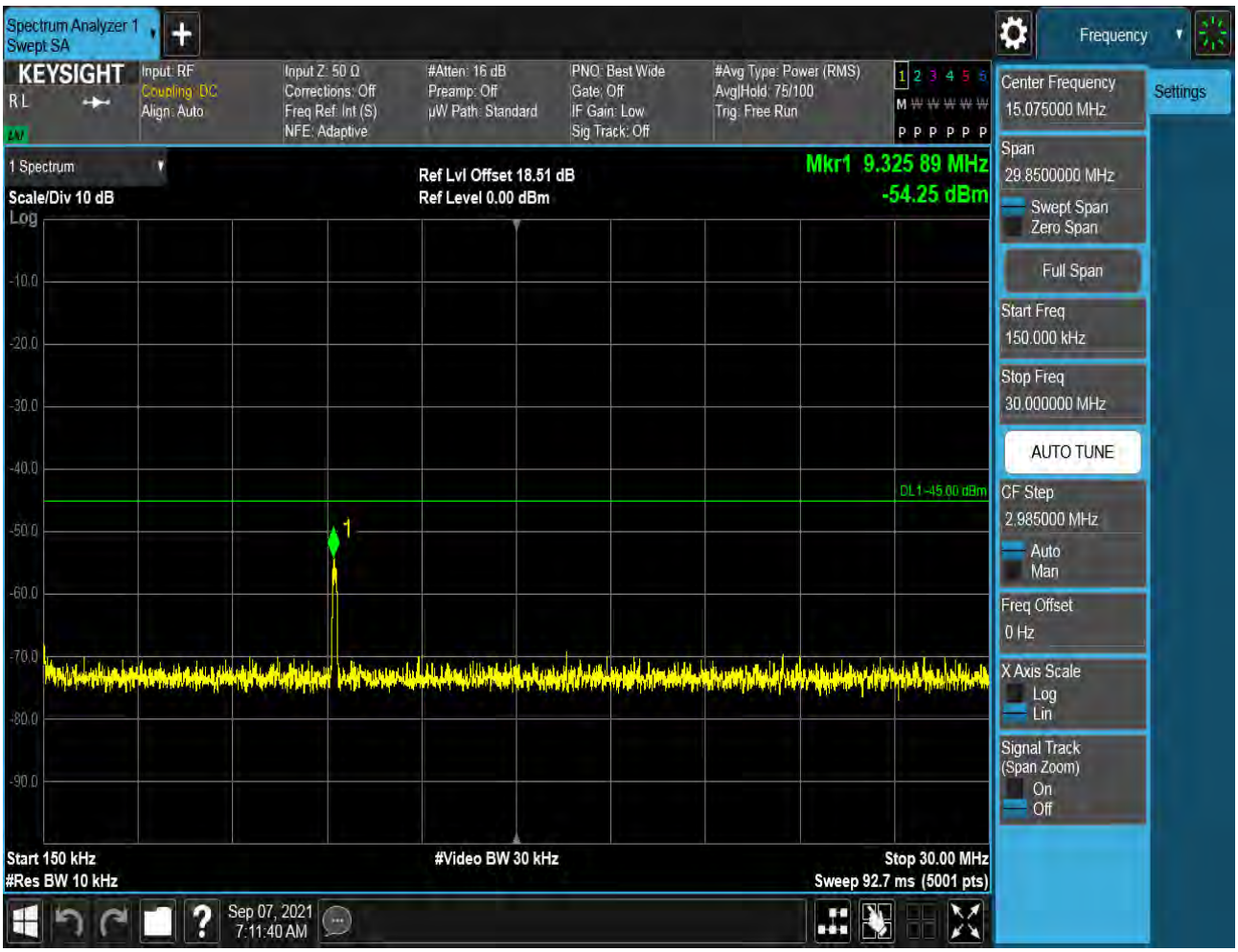
6.2.1.2.2 Test Bandwidth = 10

6.2.1.2.2.1 Test Channel = LCH

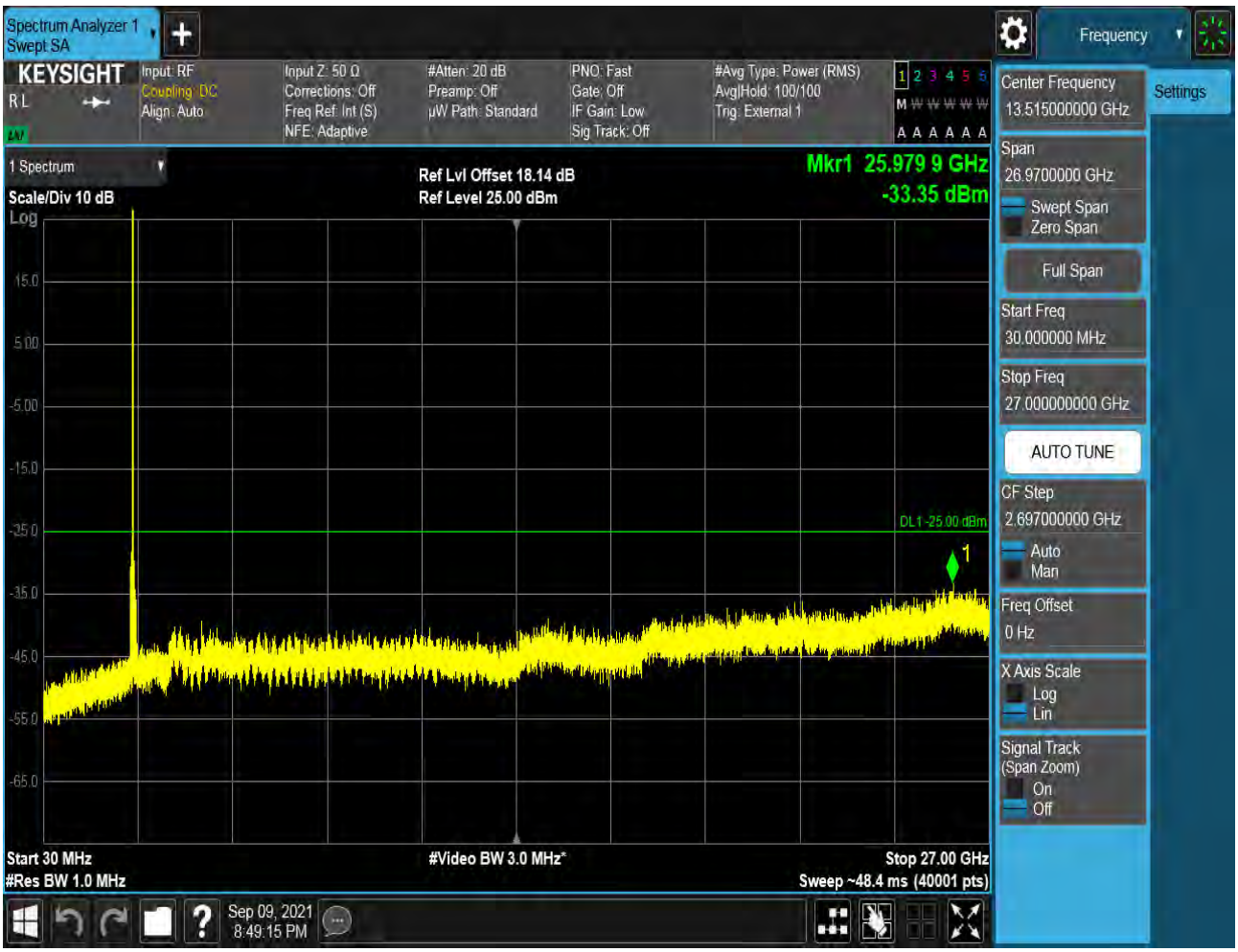
6.2.1.2.2.1.1 Test RB = RB1#0



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.2.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

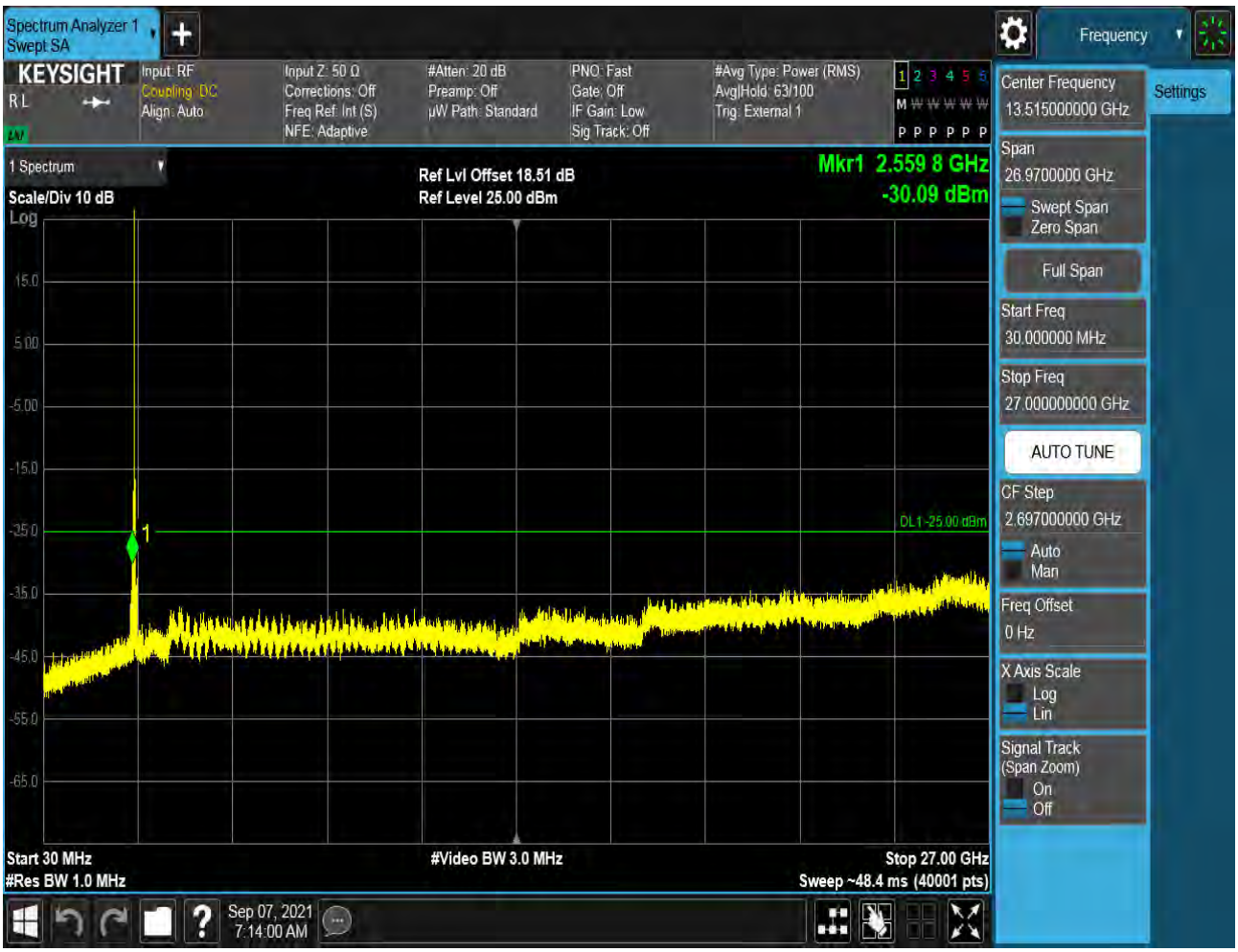
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



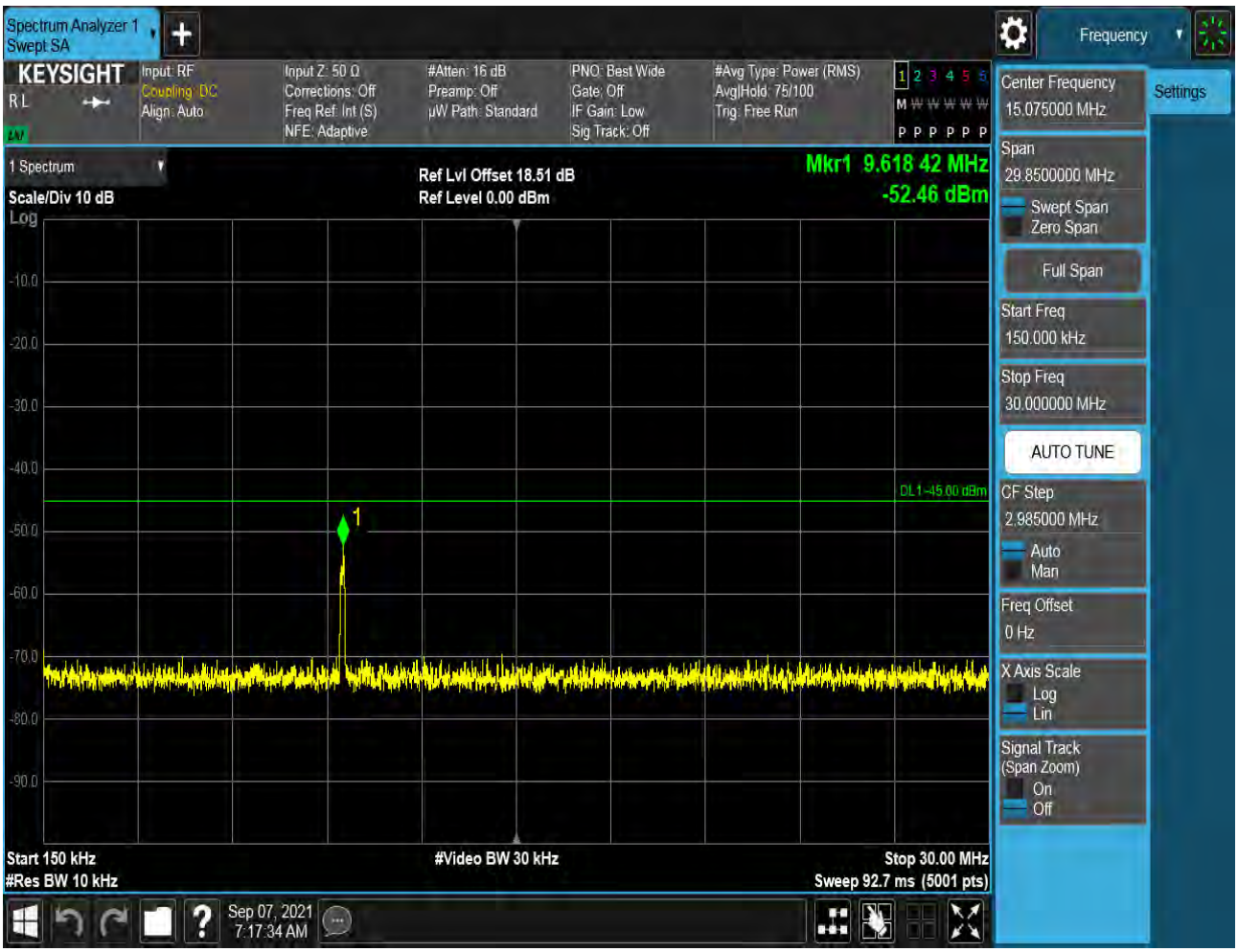
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.3 Test Bandwidth = 15

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



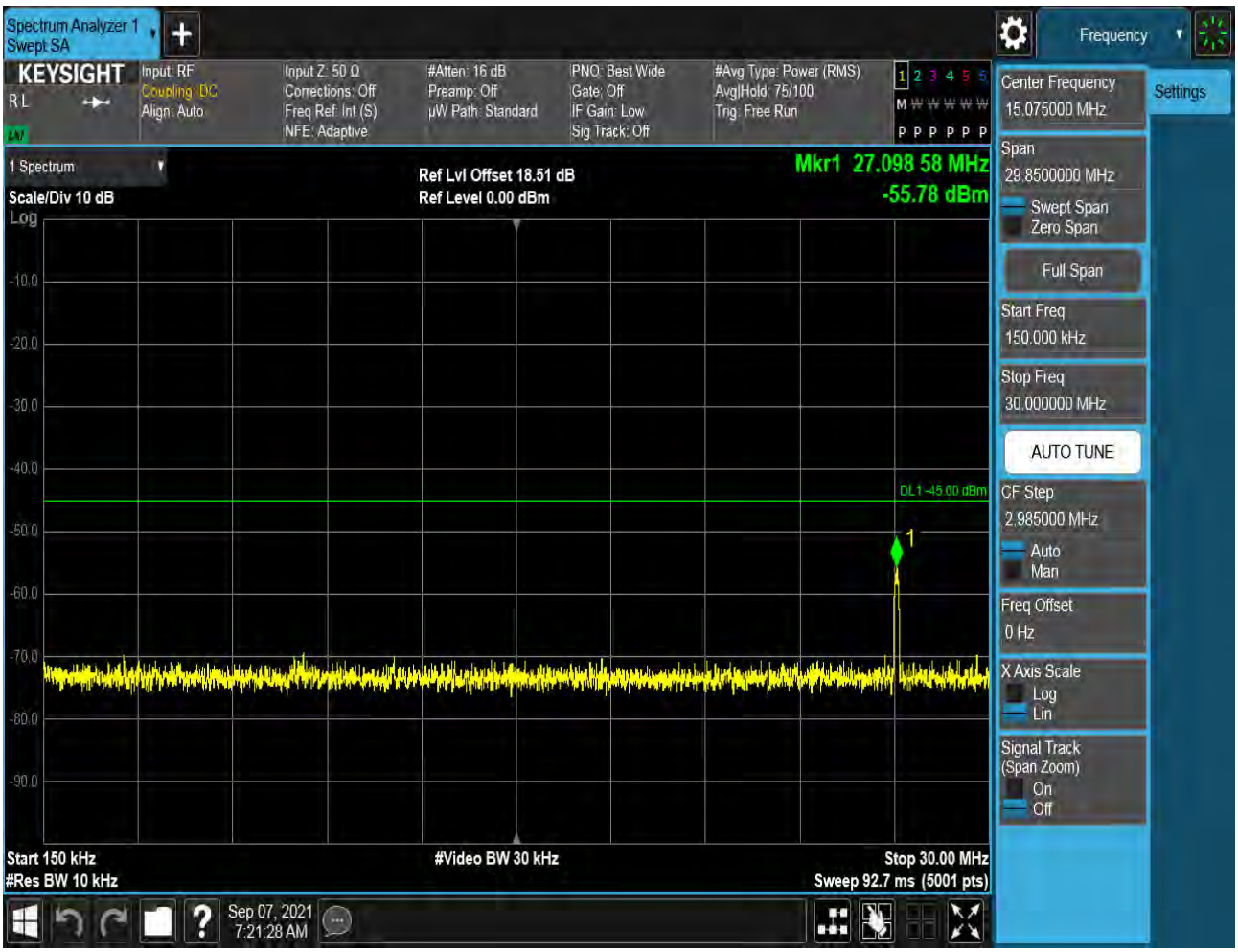
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

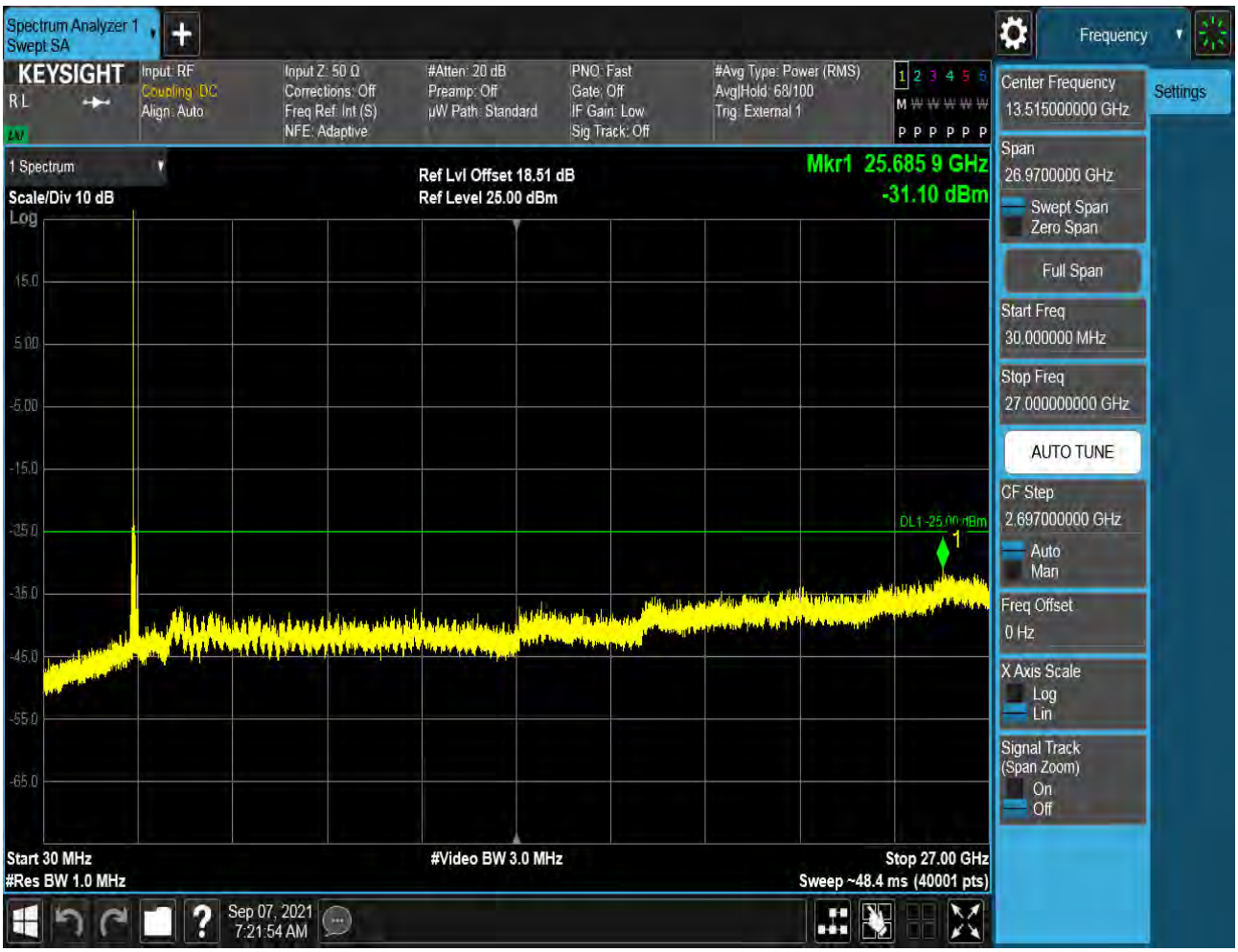
6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



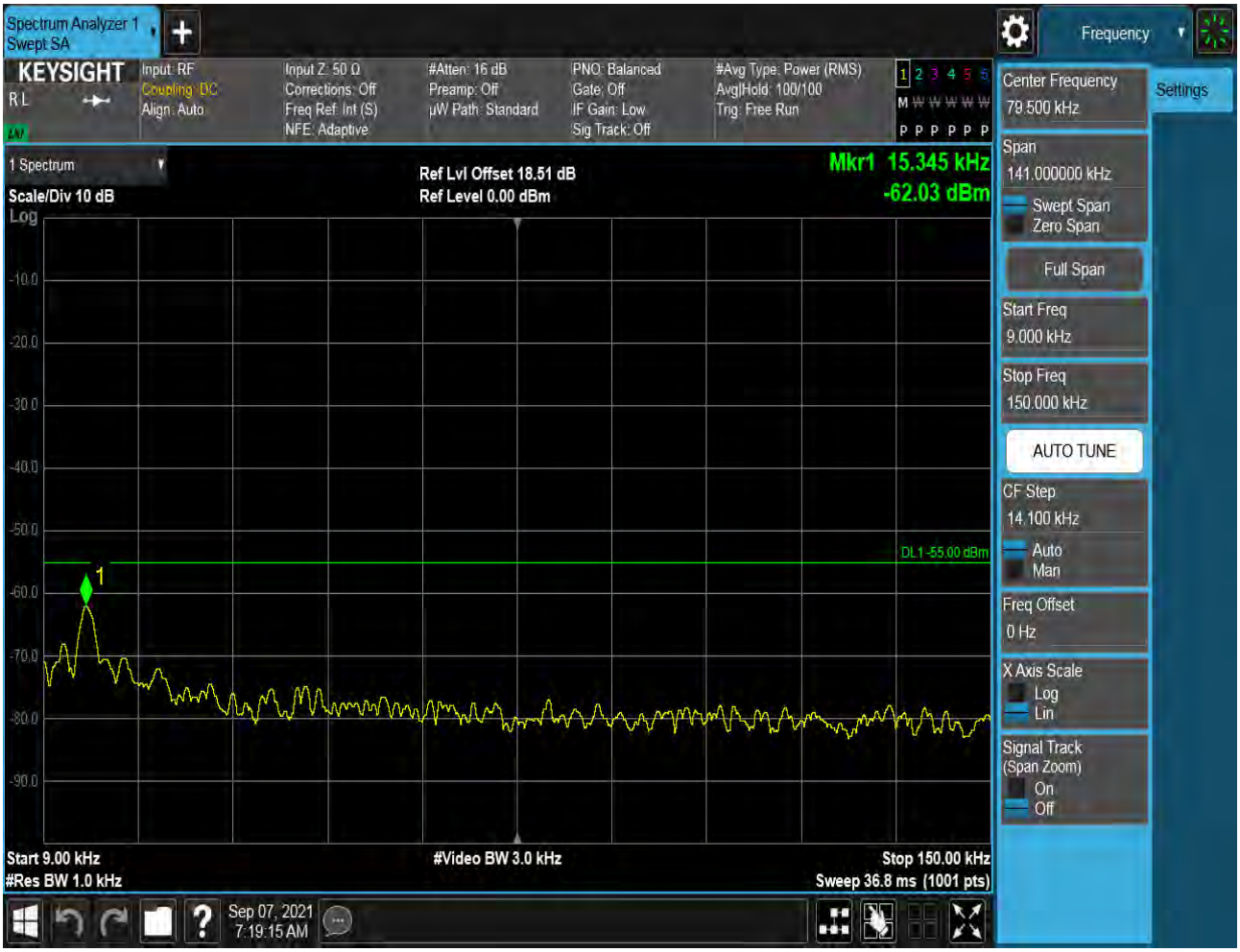
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

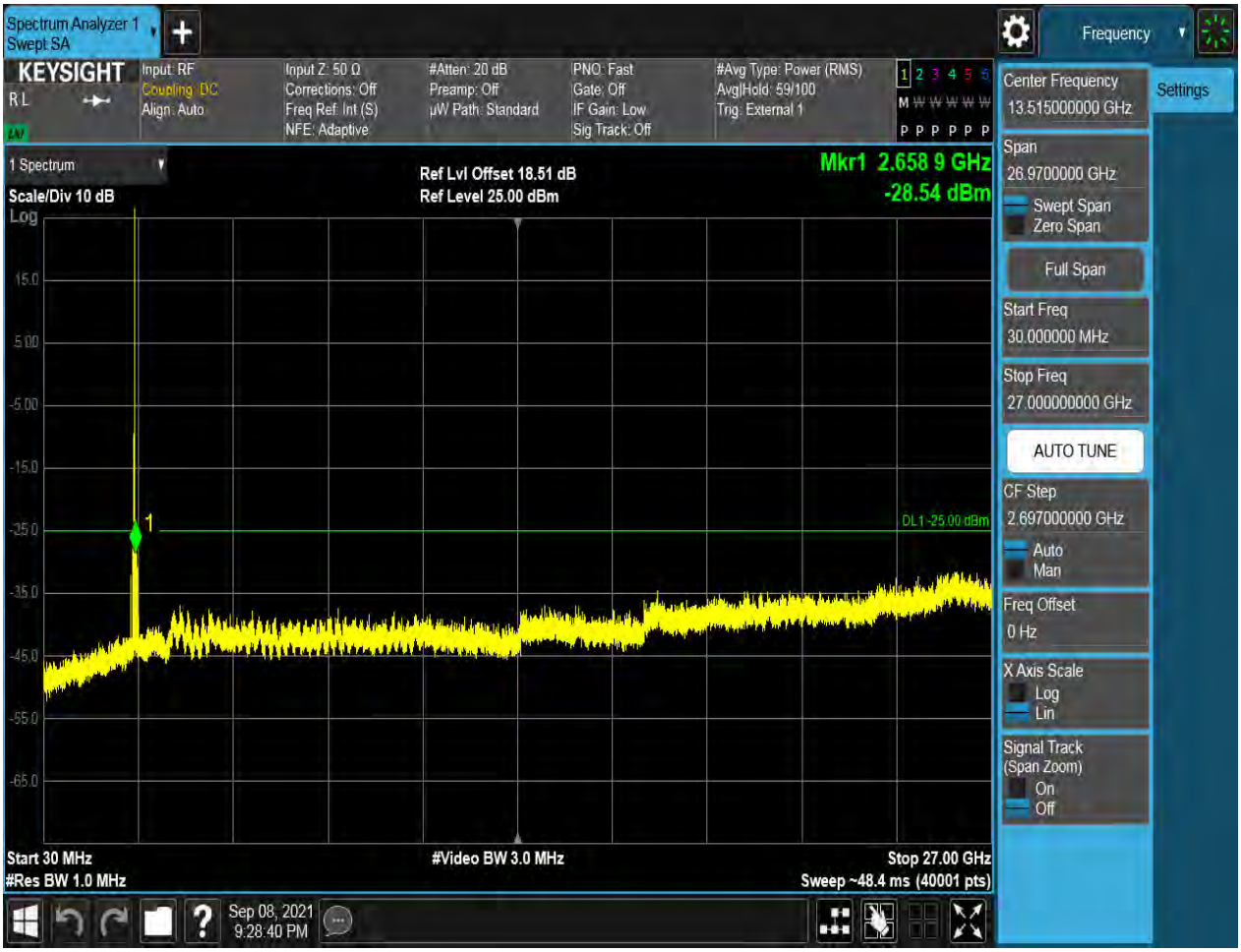
6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



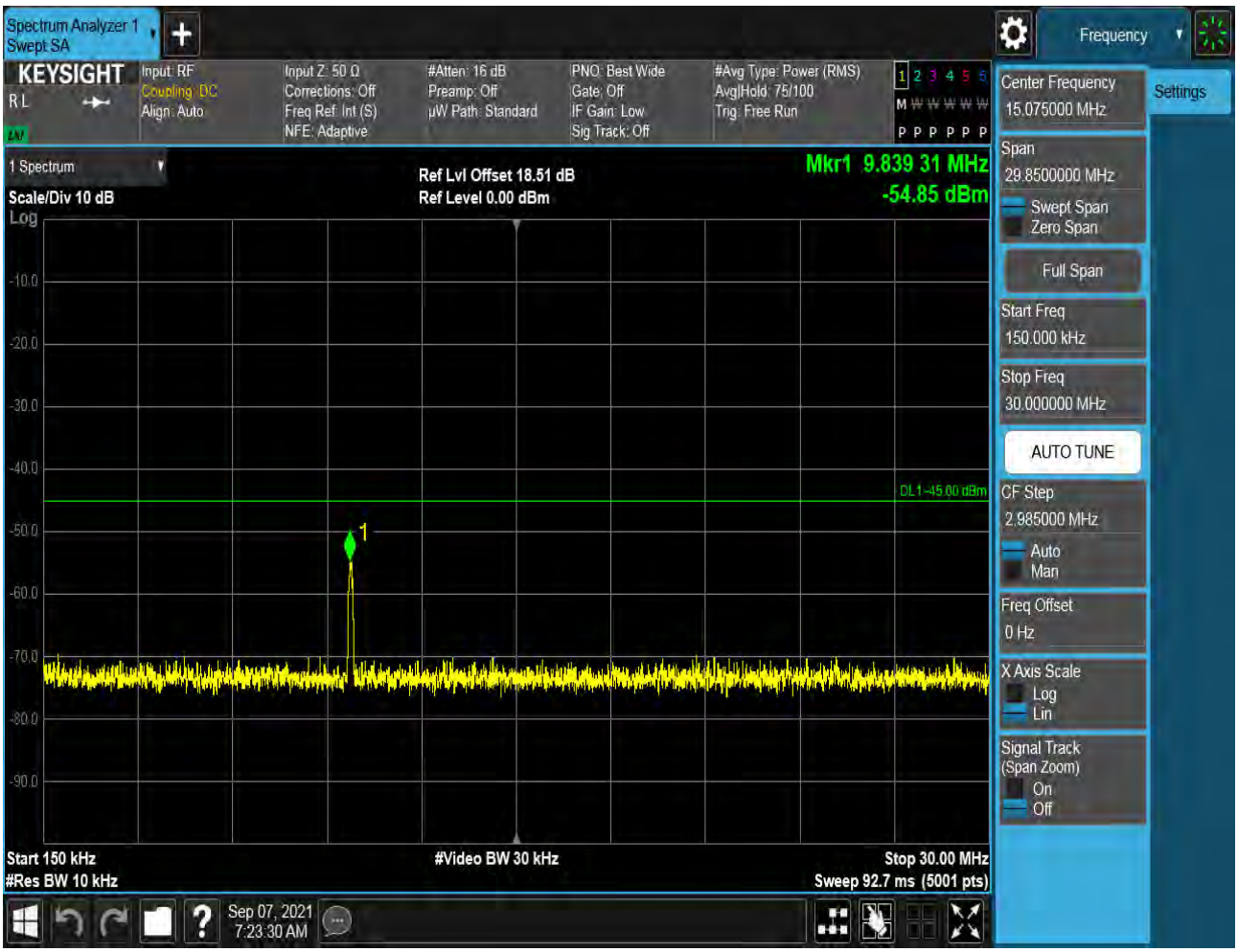
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.4 Test Bandwidth = 20

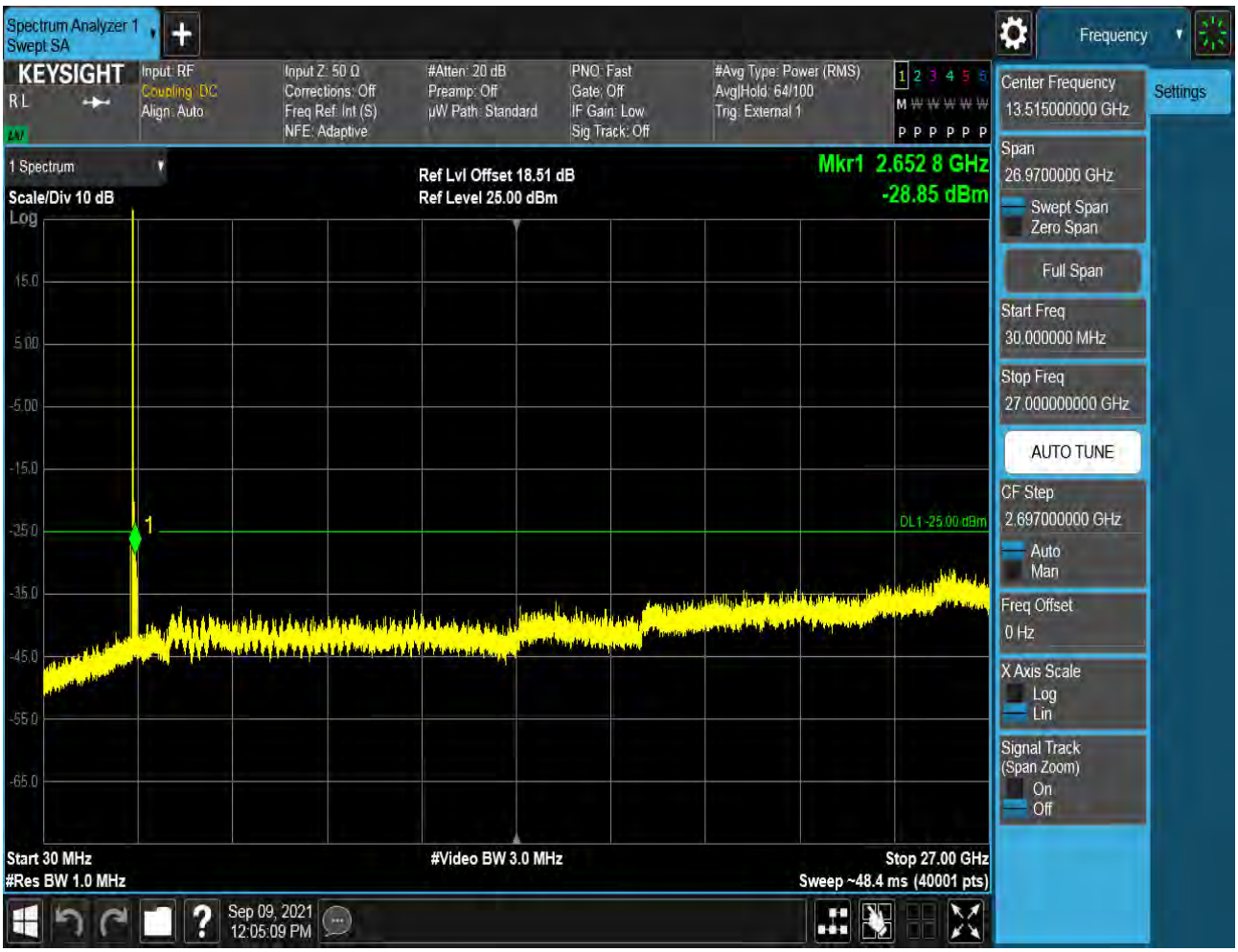
6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

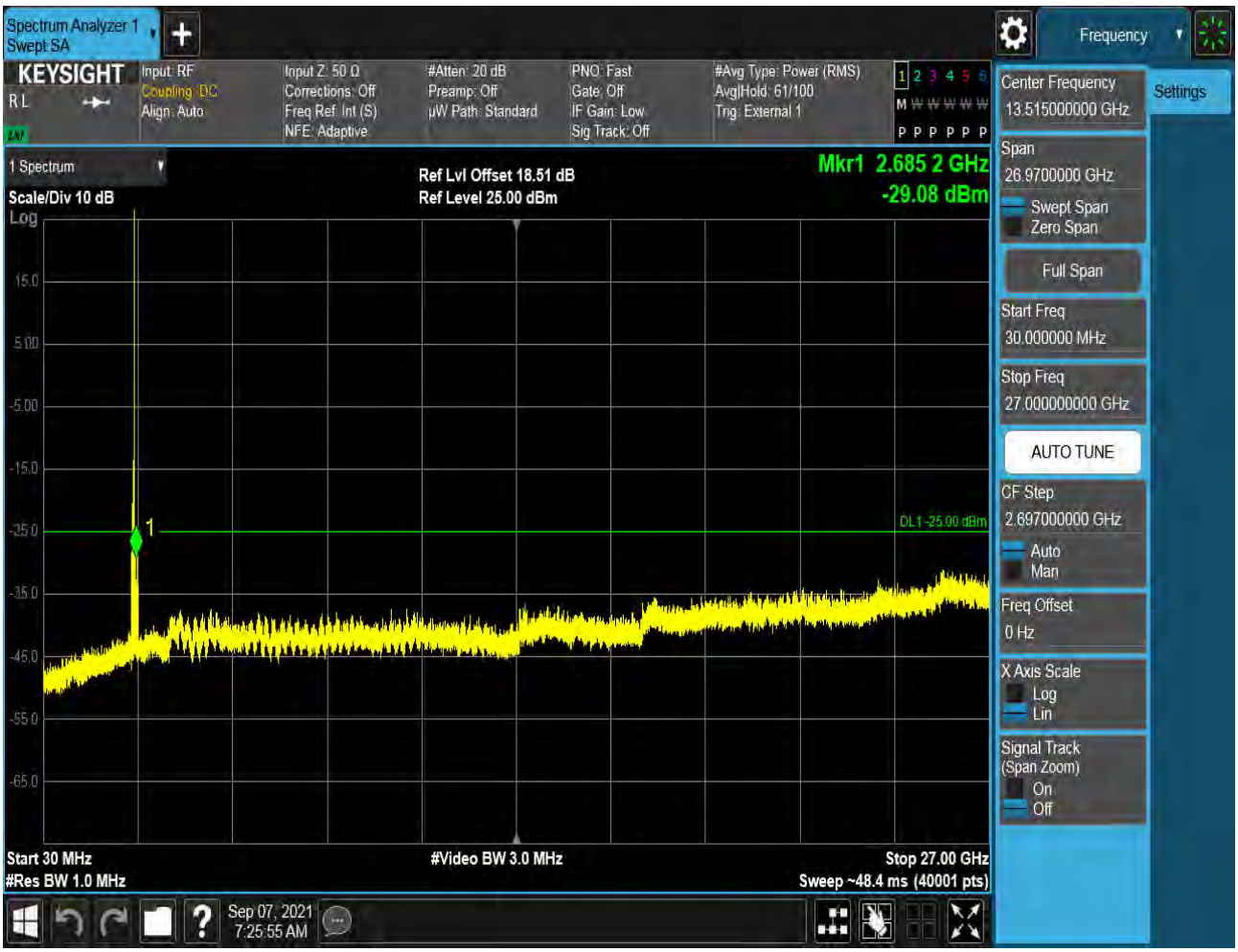
Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 Test RB = RB1#0

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

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

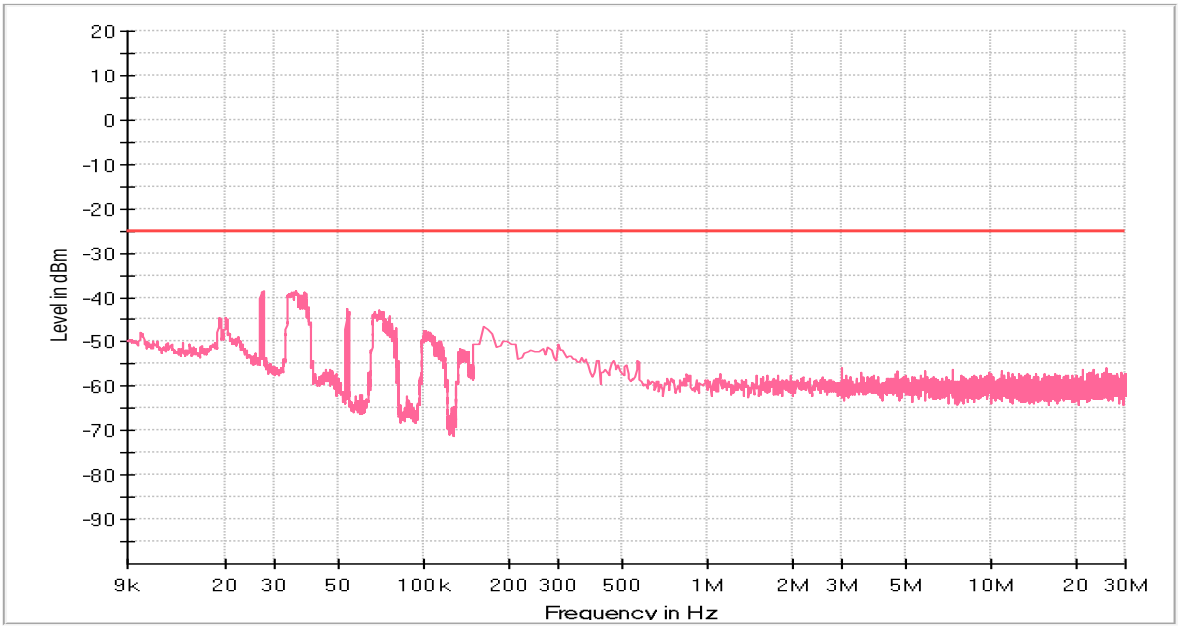
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

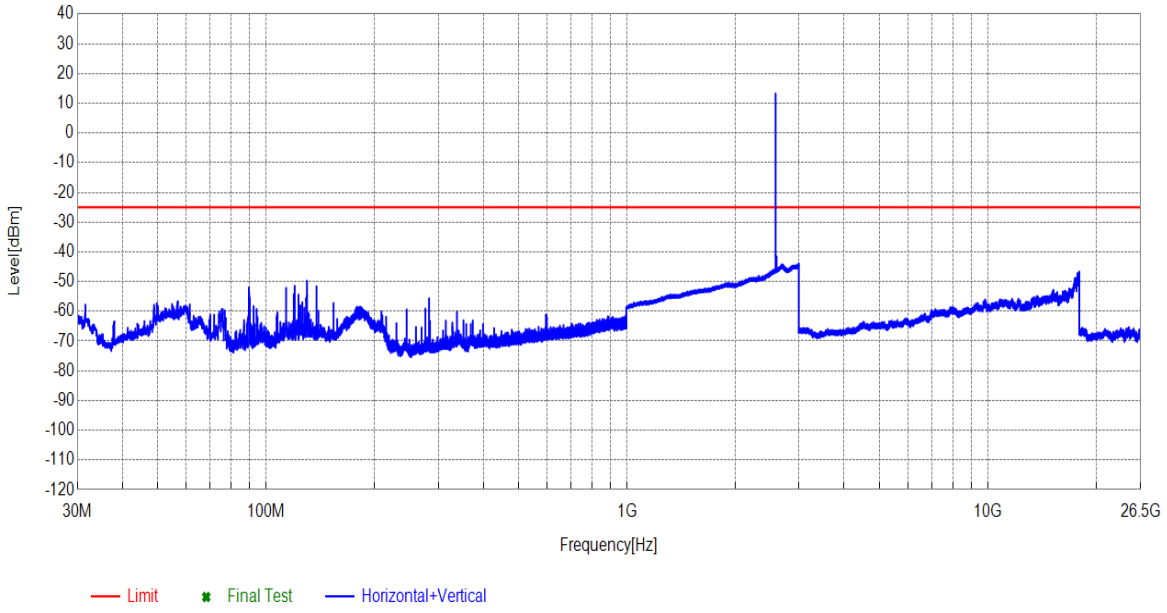
7.1 For LTE

7.1.1 Test Band = Band38

7.1.1.1 Test Bandwidth = 5

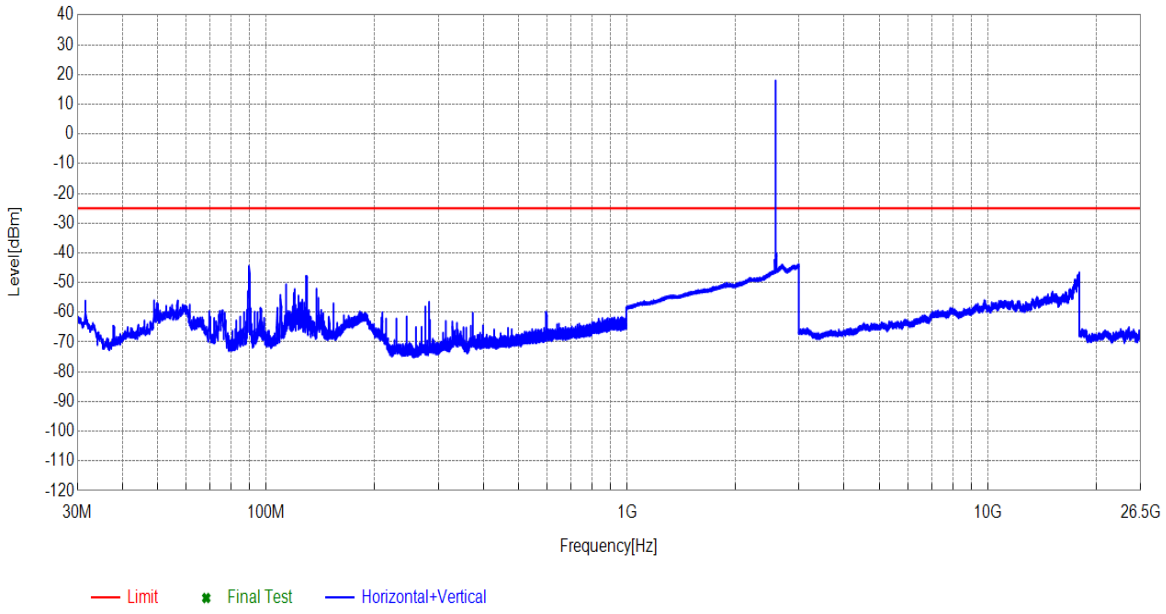
Worst case


Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.



Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

7.1.1.2 Test Bandwidth = 20

Worst case


Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

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
Band38	LTE/TM1	5	LCH	TN	VL	106.21840	0.04129	PASS
					VN	6.19654	0.00241	PASS
					VH	3.09015	0.00120	PASS
			MCH	TN	VL	-32.83075	-0.01265	PASS
					VN	15.31419	0.00590	PASS
					VH	16.96997	0.00654	PASS
			HCH	TN	VL	4.21403	0.00161	PASS
					VN	21.07103	0.00805	PASS
					VH	29.99310	0.01146	PASS
		10	LCH	TN	VL	-14.92836	-0.00580	PASS
					VN	-4.84174	-0.00188	PASS
					VH	-27.88417	-0.01083	PASS
			MCH	TN	VL	-8.34277	-0.00321	PASS
					VN	-9.65998	-0.00372	PASS
					VH	-4.97359	-0.00192	PASS
			HCH	TN	VL	5.66583	0.00217	PASS
					VN	4.71093	0.00180	PASS
					VH	7.37404	0.00282	PASS
		15	LCH	TN	VL	3.38094	0.00131	PASS
					VN	1.49879	0.00058	PASS
					VH	8.94933	0.00347	PASS
			MCH	TN	VL	-3.66045	-0.00141	PASS
					VN	-6.39936	-0.00247	PASS
					VH	7.39815	0.00285	PASS
			HCH	TN	VL	7.21395	0.00276	PASS
					VN	-9.02078	-0.00345	PASS
					VH	-2.90982	-0.00111	PASS
		20	LCH	TN	VL	2.65597	0.00103	PASS
					VN	5.79146	0.00224	PASS
					VH	-0.58552	-0.00023	PASS
			MCH	TN	VL	-9.72616	-0.00375	PASS
					VN	5.51332	0.00212	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VH	4.81778	0.00186	PASS
			HCH	TN	VL	4.26262	0.00163	PASS
					VN	10.61111	0.00407	PASS
					VH	8.36742	0.00321	PASS
	LTE/TM2	5	LCH	TN	VL	-27.60816	-0.01073	PASS
					VN	15.97446	0.00621	PASS
					VH	21.46928	0.00835	PASS
			MCH	TN	VL	19.64704	0.00757	PASS
					VN	-15.69364	-0.00605	PASS
					VH	-4.64309	-0.00179	PASS
			HCH	TN	VL	-10.45660	-0.00399	PASS
					VN	-3.33351	-0.00127	PASS
					VH	-2.01987	-0.00077	PASS
		10	LCH	TN	VL	-2.92783	-0.00114	PASS
					VN	22.69606	0.00881	PASS
					VH	26.37398	0.01024	PASS
			MCH	TN	VL	-4.30711	-0.00166	PASS
					VN	-15.37768	-0.00593	PASS
					VH	-8.60809	-0.00332	PASS
			HCH	TN	VL	2.75047	0.00105	PASS
					VN	-46.90433	-0.01794	PASS
					VH	37.77148	0.01444	PASS
		15	LCH	TN	VL	-2.55442	-0.00099	PASS
					VN	2.93663	0.00114	PASS
					VH	4.50855	0.00175	PASS
			MCH	TN	VL	5.17523	0.00199	PASS
					VN	-3.87523	-0.00149	PASS
					VH	-2.51118	-0.00097	PASS
			HCH	TN	VL	2.17747	0.00083	PASS
					VN	-1.92355	-0.00074	PASS
					VH	8.35616	0.00320	PASS
		20	LCH	TN	VL	-1.09865	-0.00043	PASS
					VN	3.12781	0.00121	PASS
					VH	10.52828	0.00408	PASS
			MCH	TN	VL	4.10164	0.00158	PASS
					VN	7.06555	0.00272	PASS
					VH	44.62138	0.01720	PASS
			HCH	TN	VL	9.79856	0.00375	PASS
					VN	-3.93526	-0.00151	PASS
					VH	1.26325	0.00048	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

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
Band38	LTE/TM1	5	LCH	VN	-30	18.33213	0.00713	PASS
					-20	4.44642	0.00173	PASS
					-10	6.00477	0.00233	PASS
					0	-0.10825	-0.00004	PASS
					10	23.72884	0.00922	PASS
					20	6.19654	0.00241	PASS
					30	8.87210	0.00345	PASS
					40	41.22500	0.01603	PASS
					50	-16.53850	-0.00643	PASS
			MCH	VN	-30	-5.78909	-0.00223	PASS
					-20	-10.65376	-0.00411	PASS
					-10	-22.40327	-0.00863	PASS
					0	6.14705	0.00237	PASS
					10	2.21794	0.00085	PASS
					20	15.31419	0.00590	PASS
					30	16.12562	0.00621	PASS
					40	-20.05978	-0.00773	PASS
					50	0.12095	0.00005	PASS
			HCH	VN	-30	18.28187	0.00698	PASS
					-20	-22.38070	-0.00855	PASS
					-10	10.73967	0.00410	PASS
					0	-20.76965	-0.00793	PASS
					10	9.88049	0.00377	PASS
					20	21.07103	0.00805	PASS
					30	-13.69376	-0.00523	PASS
					40	-17.03549	-0.00651	PASS
					50	11.85951	0.00453	PASS
		10	LCH	VN	-30	-8.39924	-0.00326	PASS
					-20	-3.57711	-0.00139	PASS
					-10	2.55648	0.00099	PASS
					0	0.30711	0.00012	PASS
					10	-19.11949	-0.00743	PASS
					20	-4.84174	-0.00188	PASS
					30	3.91835	0.00152	PASS
					40	-5.84939	-0.00227	PASS
					50	-8.33255	-0.00324	PASS
			MCH	VN	-30	-0.40892	-0.00016	PASS
					-20	-11.20506	-0.00432	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-14.88218	-0.00573	PASS
					0	1.01286	0.00039	PASS
					10	-3.65088	-0.00141	PASS
					20	-9.65998	-0.00372	PASS
					30	-9.98077	-0.00385	PASS
					40	-0.46540	-0.00018	PASS
					50	-9.87882	-0.00381	PASS
			HCH	VN	-30	13.66646	0.00523	PASS
					-20	1.40657	0.00054	PASS
					-10	-3.78605	-0.00145	PASS
					0	-9.18698	-0.00351	PASS
					10	-13.76784	-0.00526	PASS
					20	4.71093	0.00180	PASS
					30	8.33905	0.00319	PASS
					40	-12.42861	-0.00475	PASS
					50	8.55258	0.00327	PASS
		15	LCH	VN	-30	-3.38926	-0.00131	PASS
					-20	0.72170	0.00028	PASS
					-10	13.69152	0.00531	PASS
					0	-0.62444	-0.00024	PASS
					10	-0.72066	-0.00028	PASS
					20	1.49879	0.00058	PASS
					30	-5.41587	-0.00210	PASS
					40	7.18233	0.00279	PASS
					50	8.54438	0.00331	PASS
			MCH	VN	-30	6.56744	0.00253	PASS
					-20	-0.44564	-0.00017	PASS
					-10	1.72787	0.00067	PASS
					0	-0.57533	-0.00022	PASS
					10	1.81106	0.00070	PASS
					20	-6.39936	-0.00247	PASS
					30	-1.76729	-0.00068	PASS
					40	2.44398	0.00094	PASS
					50	1.26655	0.00049	PASS
			HCH	VN	-30	4.11904	0.00158	PASS
					-20	-3.29061	-0.00126	PASS
					-10	1.14557	0.00044	PASS
					0	-4.37898	-0.00168	PASS
					10	-2.03966	-0.00078	PASS
					20	-9.02078	-0.00345	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-0.34638	-0.00013	PASS
					40	-6.21766	-0.00238	PASS
					50	2.77198	0.00106	PASS
		20	LCH	VN	-30	7.15215	0.00277	PASS
					-20	-0.94751	-0.00037	PASS
					-10	5.67438	0.00220	PASS
					0	6.30191	0.00244	PASS
					10	-0.95456	-0.00037	PASS
					20	5.79146	0.00224	PASS
					30	3.37976	0.00131	PASS
					40	-3.78174	-0.00147	PASS
					50	1.59068	0.00062	PASS
			MCH	VN	-30	7.44327	0.00287	PASS
					-20	15.30075	0.00590	PASS
					-10	-4.99210	-0.00192	PASS
					0	7.96360	0.00307	PASS
					10	73.09517	0.02817	PASS
					20	5.51332	0.00212	PASS
					30	3.15543	0.00122	PASS
					40	-3.92075	-0.00151	PASS
					50	-12.29582	-0.00474	PASS
			HCH	VN	-30	-8.79320	-0.00337	PASS
					-20	0.74901	0.00029	PASS
					-10	-4.51588	-0.00173	PASS
					0	3.09338	0.00119	PASS
					10	-0.86287	-0.00033	PASS
					20	10.61111	0.00407	PASS
					30	-8.16431	-0.00313	PASS
					40	0.00279	0.00000	PASS
					50	-0.03000	-0.00001	PASS
	LTE/TM2	5	LCH	VN	-30	26.25354	0.01021	PASS
					-20	27.47677	0.01068	PASS
					-10	-6.75990	-0.00263	PASS
					0	6.62087	0.00257	PASS
					10	-29.39667	-0.01143	PASS
					20	15.97446	0.00621	PASS
					30	6.41587	0.00249	PASS
					40	-25.60408	-0.00995	PASS
					50	-2.71780	-0.00106	PASS
			MCH	VN	-30	-3.11774	-0.00120	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	4.91514	0.00189	PASS
					-10	-13.49308	-0.00520	PASS
					0	-71.82010	-0.02768	PASS
					10	-21.38526	-0.00824	PASS
					20	-15.69364	-0.00605	PASS
					30	-69.54322	-0.02680	PASS
					40	6.57088	0.00253	PASS
					50	-103.07500	-0.03972	PASS
			HCH	VN	-30	26.97784	0.01031	PASS
					-20	-3.02331	-0.00116	PASS
					-10	20.47847	0.00782	PASS
					0	-15.63402	-0.00597	PASS
					10	-9.40083	-0.00359	PASS
					20	-3.33351	-0.00127	PASS
					30	-1.91020	-0.00073	PASS
					40	5.22609	0.00200	PASS
					50	-14.08058	-0.00538	PASS
		10	LCH	VN	-30	6.24375	0.00242	PASS
					-20	12.85133	0.00499	PASS
					-10	-13.17883	-0.00512	PASS
					0	-10.85624	-0.00422	PASS
					10	-7.25003	-0.00282	PASS
					20	22.69606	0.00881	PASS
					30	0.45390	0.00018	PASS
					40	11.12285	0.00432	PASS
					50	0.81500	0.00032	PASS
			MCH	VN	-30	-3.81983	-0.00147	PASS
					-20	-0.77055	-0.00030	PASS
					-10	12.71599	0.00490	PASS
					0	-14.66293	-0.00565	PASS
					10	4.47462	0.00172	PASS
					20	-15.37768	-0.00593	PASS
					30	2.94254	0.00113	PASS
					40	12.75264	0.00491	PASS
					50	-10.08726	-0.00389	PASS
			HCH	VN	-30	9.26964	0.00354	PASS
					-20	-17.43281	-0.00667	PASS
					-10	7.11296	0.00272	PASS
					0	0.44130	0.00017	PASS
					10	-13.38037	-0.00512	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-46.90433	-0.01794	PASS
					30	7.94717	0.00304	PASS
					40	15.10206	0.00578	PASS
					50	-67.37432	-0.02576	PASS
		15	LCH	VN	-30	-7.87780	-0.00306	PASS
					-20	6.55002	0.00254	PASS
					-10	-52.55312	-0.02039	PASS
					0	0.74824	0.00029	PASS
					10	11.57063	0.00449	PASS
					20	2.93663	0.00114	PASS
					30	-0.37905	-0.00015	PASS
					40	15.88637	0.00616	PASS
					50	-2.09119	-0.00081	PASS
			MCH	VN	-30	1.41853	0.00055	PASS
					-20	-1.52146	-0.00059	PASS
					-10	7.16870	0.00276	PASS
					0	6.03956	0.00233	PASS
					10	-8.94833	-0.00345	PASS
					20	-3.87523	-0.00149	PASS
					30	7.03242	0.00271	PASS
					40	-2.59183	-0.00100	PASS
					50	-5.89059	-0.00227	PASS
			HCH	VN	-30	-0.00624	0.00000	PASS
					-20	6.52358	0.00250	PASS
					-10	-7.35741	-0.00282	PASS
					0	7.00442	0.00268	PASS
					10	-0.90807	-0.00035	PASS
					20	-1.92355	-0.00074	PASS
					30	1.87785	0.00072	PASS
					40	4.74066	0.00181	PASS
					50	5.10629	0.00195	PASS
		20	LCH	VN	-30	7.55139	0.00293	PASS
					-20	-6.52791	-0.00253	PASS
					-10	-7.71622	-0.00299	PASS
					0	-9.46183	-0.00367	PASS
					10	11.29441	0.00438	PASS
					20	3.12781	0.00121	PASS
					30	9.89801	0.00384	PASS
					40	2.81253	0.00109	PASS
					50	0.86173	0.00033	PASS

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	VN	-30	-8.08827	-0.00312	PASS
					-20	8.50437	0.00328	PASS
					-10	77.02481	0.02968	PASS
					0	7.65274	0.00295	PASS
					10	5.49571	0.00212	PASS
					20	7.06555	0.00272	PASS
					30	6.33899	0.00244	PASS
					40	2.15462	0.00083	PASS
					50	-3.41890	-0.00132	PASS
			HCH	VN	-30	4.50805	0.00173	PASS
					-20	-3.60064	-0.00138	PASS
					-10	-13.95610	-0.00535	PASS
					0	-9.74027	-0.00373	PASS
					10	-9.33327	-0.00358	PASS
					20	-3.93526	-0.00151	PASS
					30	-0.97635	-0.00037	PASS
					40	-2.60581	-0.00100	PASS
					50	9.15955	0.00351	PASS

END

Huawei Proprietary and Confidential Copyright © Huawei Technologies Co., Ltd.