Appendix for test report

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

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
BAND17	LTE/TM1	5	LCH	RB1#0	22.51	14.36	34.7	PASS
				RB1#13	22.73	14.58	34.7	PASS
				RB1#24	23.36	15.21	34.7	PASS
				RB12#0	21.85	13.7	34.7	PASS
				RB12#6	21.7	13.55	34.7	PASS
				RB12#13	21.77	13.62	34.7	PASS
				RB25#0	21.82	13.67	34.7	PASS
			MCH	RB1#0	22.58	14.43	34.7	PASS
				RB1#13	23.03	14.88	34.7	PASS
				RB1#24	23.78	15.63	34.7	PASS
				RB12#0	21.91	13.76	34.7	PASS
				RB12#6	22.24	14.09	34.7	PASS
				RB12#13	21.78	13.63	34.7	PASS
				RB25#0	22.02	13.87	34.7	PASS

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.87	14.72	34.7	PASS
				RB1#13	23.35	15.2	34.7	PASS
				RB1#24	23	14.85	34.7	PASS
				RB12#0	22.24	14.09	34.7	PASS
				RB12#6	22.32	14.17	34.7	PASS
				RB12#13	21.9	13.75	34.7	PASS
				RB25#0	22.09	13.94	34.7	PASS
		10	LCH	RB1#0	22.43	14.28	34.7	PASS
				RB1#25	23.01	14.86	34.7	PASS
				RB1#49	23.88	15.73	34.7	PASS
				RB25#0	21.7	13.55	34.7	PASS
				RB25#13	21.95	13.8	34.7	PASS
				RB25#25	22.05	13.9	34.7	PASS
				RB50#0	21.9	13.75	34.7	PASS
			MCH	RB1#0	22.32	14.17	34.7	PASS
				RB1#25	23.05	14.9	34.7	PASS
				RB1#49	23.84	15.69	34.7	PASS

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.58	13.43	34.7	PASS
				RB25#13	22.13	13.98	34.7	PASS
				RB25#25	22.01	13.86	34.7	PASS
				RB50#0	22.02	13.87	34.7	PASS
			HCH	RB1#0	22.34	14.19	34.7	PASS
				RB1#25	23.12	14.97	34.7	PASS
				RB1#49	23.32	15.17	34.7	PASS
				RB25#0	21.86	13.71	34.7	PASS
				RB25#13	22.25	14.1	34.7	PASS
				RB25#25	22.03	13.88	34.7	PASS
				RB50#0	22.1	13.95	34.7	PASS
	LTE/TM2	5	LCH	RB1#0	21.68	13.53	34.7	PASS
				RB1#13	21.9	13.75	34.7	PASS
				RB1#24	22.57	14.42	34.7	PASS
				RB12#0	20.91	12.76	34.7	PASS
				RB12#6	20.84	12.69	34.7	PASS
				RB12#13	20.79	12.64	34.7	PASS

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.92	12.77	34.7	PASS
			MCH	RB1#0	21.72	13.57	34.7	PASS
				RB1#13	22.14	13.99	34.7	PASS
				RB1#24	22.91	14.76	34.7	PASS
				RB12#0	20.95	12.8	34.7	PASS
				RB12#6	21.26	13.11	34.7	PASS
				RB12#13	20.9	12.75	34.7	PASS
				RB25#0	21.11	12.96	34.7	PASS
			HCH	RB1#0	22.03	13.88	34.7	PASS
				RB1#13	22.61	14.46	34.7	PASS
				RB1#24	22.17	14.02	34.7	PASS
				RB12#0	21.28	13.13	34.7	PASS
				RB12#6	21.39	13.24	34.7	PASS
				RB12#13	20.98	12.83	34.7	PASS
				RB25#0	21.15	13	34.7	PASS
		10	LCH	RB1#0	21.8	13.65	34.7	PASS
				RB1#25	22.31	14.16	34.7	PASS

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	23.35	15.2	34.7	PASS
				RB25#0	20.8	12.65	34.7	PASS
				RB25#13	21.06	12.91	34.7	PASS
				RB25#25	21.17	13.02	34.7	PASS
				RB50#0	20.94	12.79	34.7	PASS
			MCH	RB1#0	21.44	13.29	34.7	PASS
				RB1#25	22.22	14.07	34.7	PASS
				RB1#49	22.98	14.83	34.7	PASS
				RB25#0	20.75	12.6	34.7	PASS
				RB25#13	21.17	13.02	34.7	PASS
				RB25#25	21.07	12.92	34.7	PASS
				RB50#0	21.07	12.92	34.7	PASS
			HCH	RB1#0	21.61	13.46	34.7	PASS
				RB1#25	22.35	14.2	34.7	PASS
				RB1#49	22.56	14.41	34.7	PASS
				RB25#0	20.92	12.77	34.7	PASS
				RB25#13	21.31	13.16	34.7	PASS

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.08	12.93	34.7	PASS
				RB50#0	21.19	13.04	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

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

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
BAND17	LTE/TM1	5	LCH	RB1#0	4.54	13	PASS
				RB1#13	4.34	13	PASS
				RB1#24	4.07	13	PASS
				RB12#0	5.7	13	PASS
				RB12#6	5.56	13	PASS
				RB12#13	5.55	13	PASS
				RB25#0	5.79	13	PASS
			MCH	RB1#0	4.61	13	PASS
				RB1#13	4.33	13	PASS
				RB1#24	3.85	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.31	13	PASS
				RB12#13	5.54	13	PASS
				RB25#0	5.83	13	PASS
			HCH	RB1#0	4.28	13	PASS
				RB1#13	4.04	13	PASS
				RB1#24	4.41	13	PASS
				RB12#0	5.23	13	PASS
				RB12#6	5.19	13	PASS
				RB12#13	5.51	13	PASS
				RB25#0	5.57	13	PASS
		10	LCH	RB1#0	4.86	13	PASS
				RB1#25	4.53	13	PASS
				RB1#49	3.62	13	PASS
				RB25#0	5.76	13	PASS
				RB25#13	5.49	13	PASS
				RB25#25	5.69	13	PASS
				RB50#0	6.05	13	PASS
			MCH	RB1#0	4.93	13	PASS
				RB1#25	4.4	13	PASS
				RB1#49	4.03	13	PASS
				RB25#0	5.79	13	PASS
				RB25#13	5.48	13	PASS

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

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.61	13	PASS
				RB50#0	6.06	13	PASS
			HCH	RB1#0	4.54	13	PASS
				RB1#25	4.24	13	PASS
				RB1#49	4.59	13	PASS
				RB25#0	5.73	13	PASS
				RB25#13	5.4	13	PASS
				RB25#25	5.54	13	PASS
				RB50#0	5.82	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.49	13	PASS
				RB1#13	5.33	13	PASS
				RB1#24	4.95	13	PASS
				RB12#0	6.09	13	PASS
				RB12#6	6.08	13	PASS
				RB12#13	5.92	13	PASS
				RB25#0	6.56	13	PASS
			MCH	RB1#0	5.17	13	PASS
				RB1#13	5.16	13	PASS
				RB1#24	4.59	13	PASS
				RB12#0	5.93	13	PASS
				RB12#6	5.87	13	PASS
				RB12#13	6.14	13	PASS
				RB25#0	6.41	13	PASS
			HCH	RB1#0	5.22	13	PASS
				RB1#13	4.84	13	PASS
				RB1#24	5.32	13	PASS
				RB12#0	5.96	13	PASS
				RB12#6	5.91	13	PASS
				RB12#13	6.29	13	PASS
				RB25#0	6.4	13	PASS
		10	LCH	RB1#0	5.34	13	PASS
				RB1#25	5.37	13	PASS
				RB1#49	4.41	13	PASS
				RB25#0	6.33	13	PASS
				RB25#13	6.12	13	PASS
				RB25#25	6.36	13	PASS
				RB50#0	6.72	13	PASS
			MCH	RB1#0	4.98	13	PASS
				RB1#25	5.15	13	PASS

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

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.49	13	PASS
				RB25#0	6.37	13	PASS
				RB25#13	6.26	13	PASS
				RB25#25	6.25	13	PASS
				RB50#0	6.56	13	PASS
			HCH	RB1#0	5.07	13	PASS
				RB1#25	5.14	13	PASS
				RB1#49	5.11	13	PASS
				RB25#0	6.23	13	PASS
				RB25#13	6.14	13	PASS
				RB25#25	6.22	13	PASS
				RB50#0	6.61	13	PASS

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

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

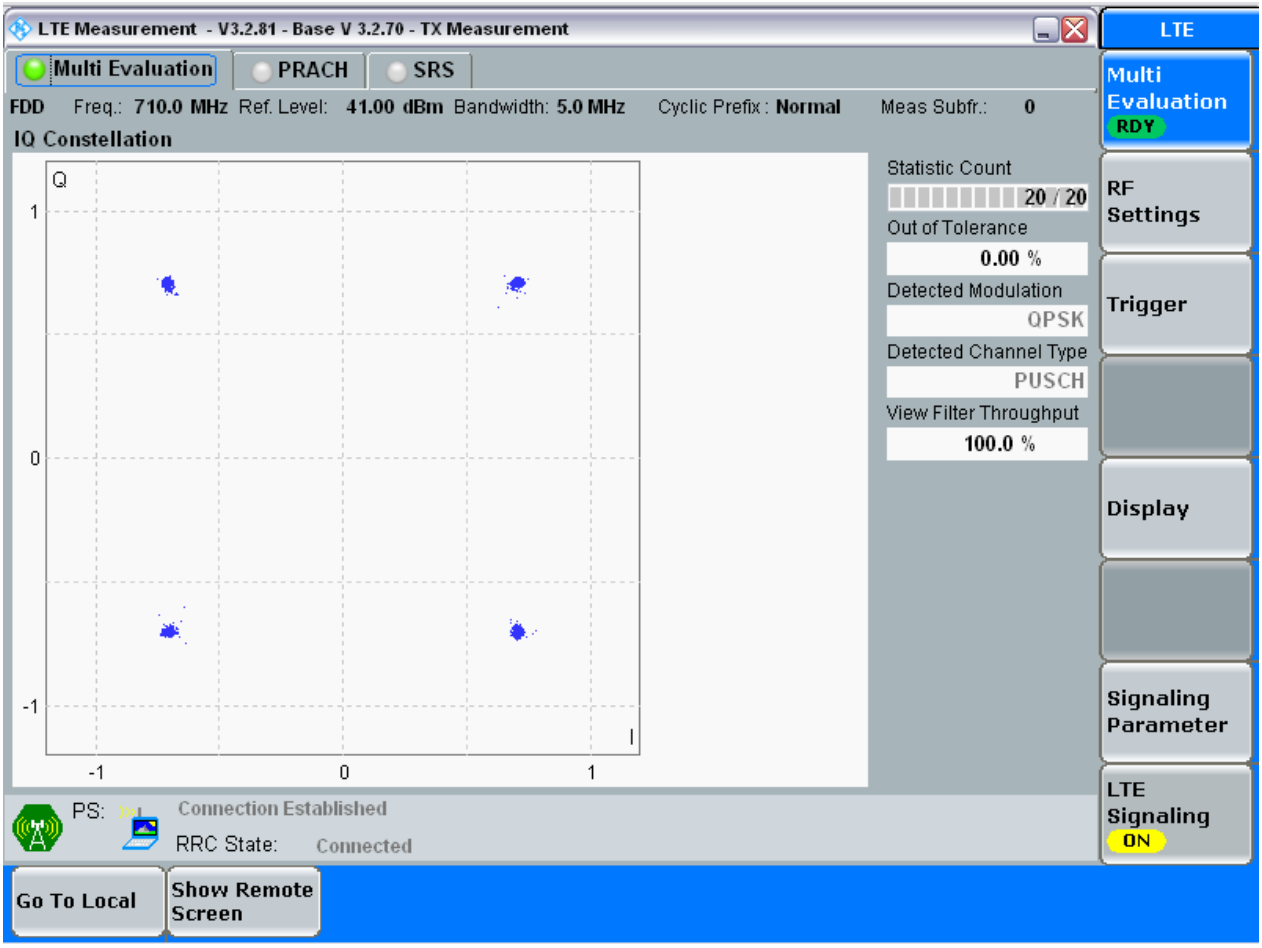
3.1.1 Test Band = BAND17

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 Test RB = RB25#0

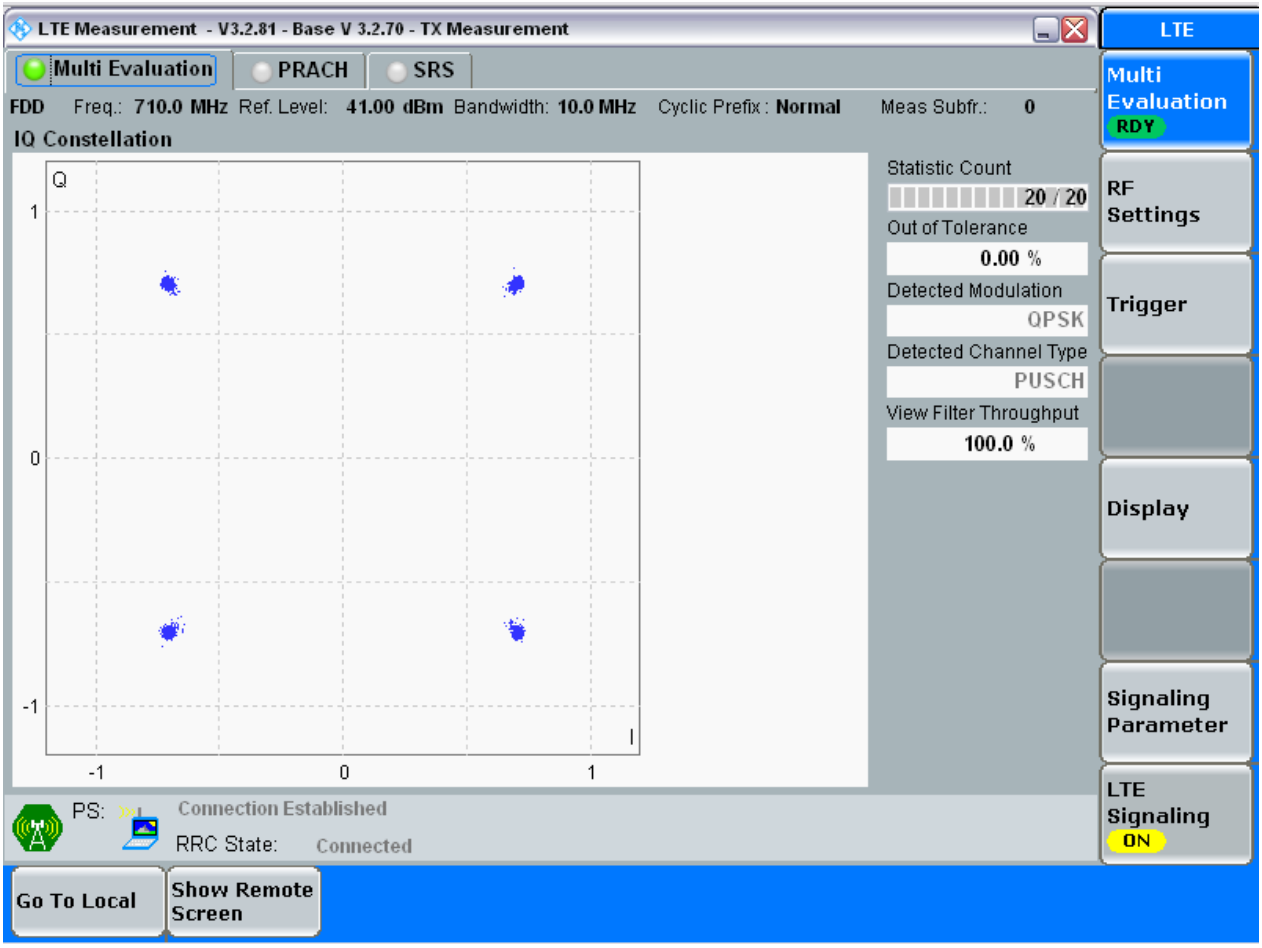


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0



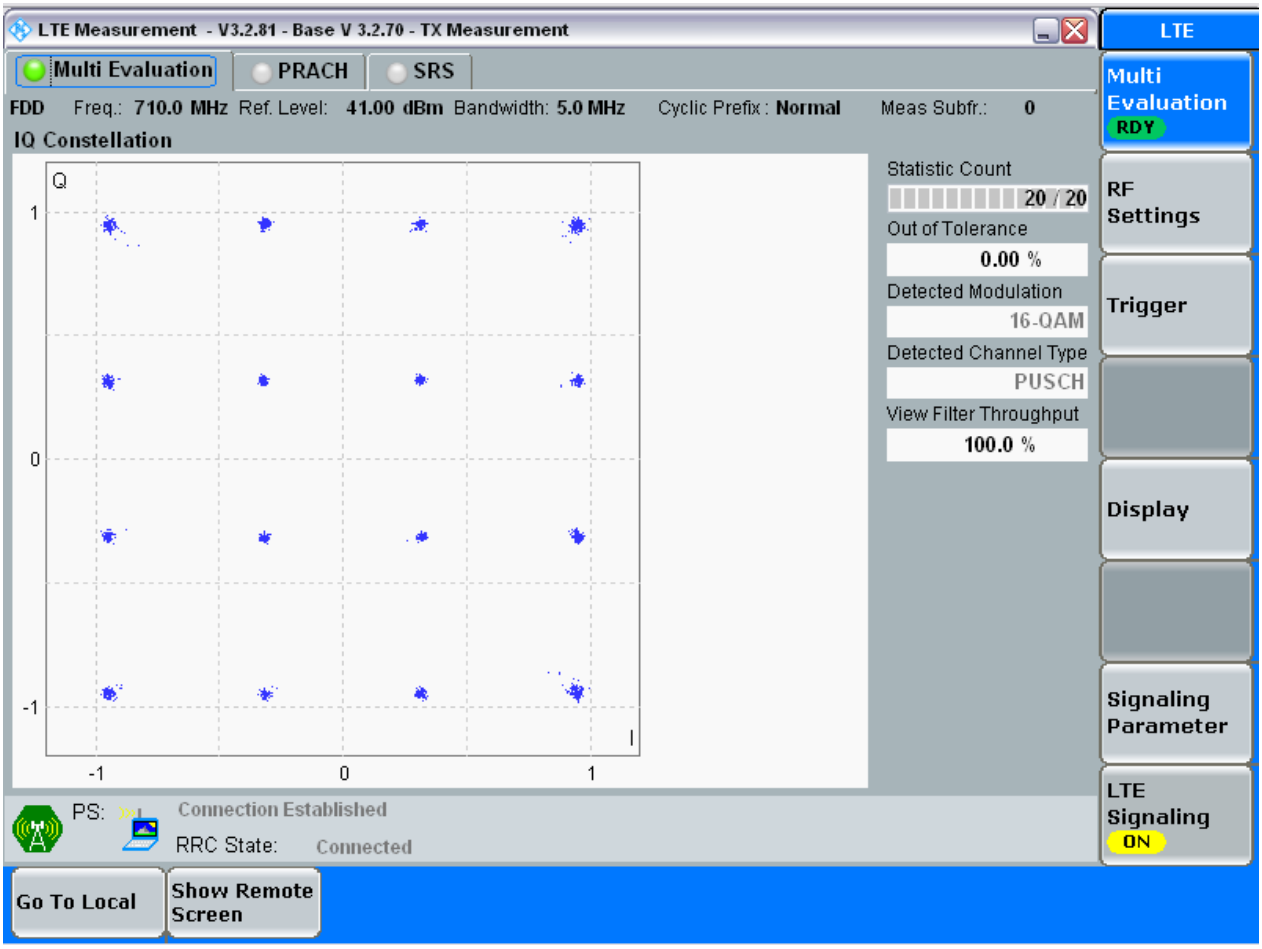
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

3.1.1.2.1.1.1 Test RB = RB25#0

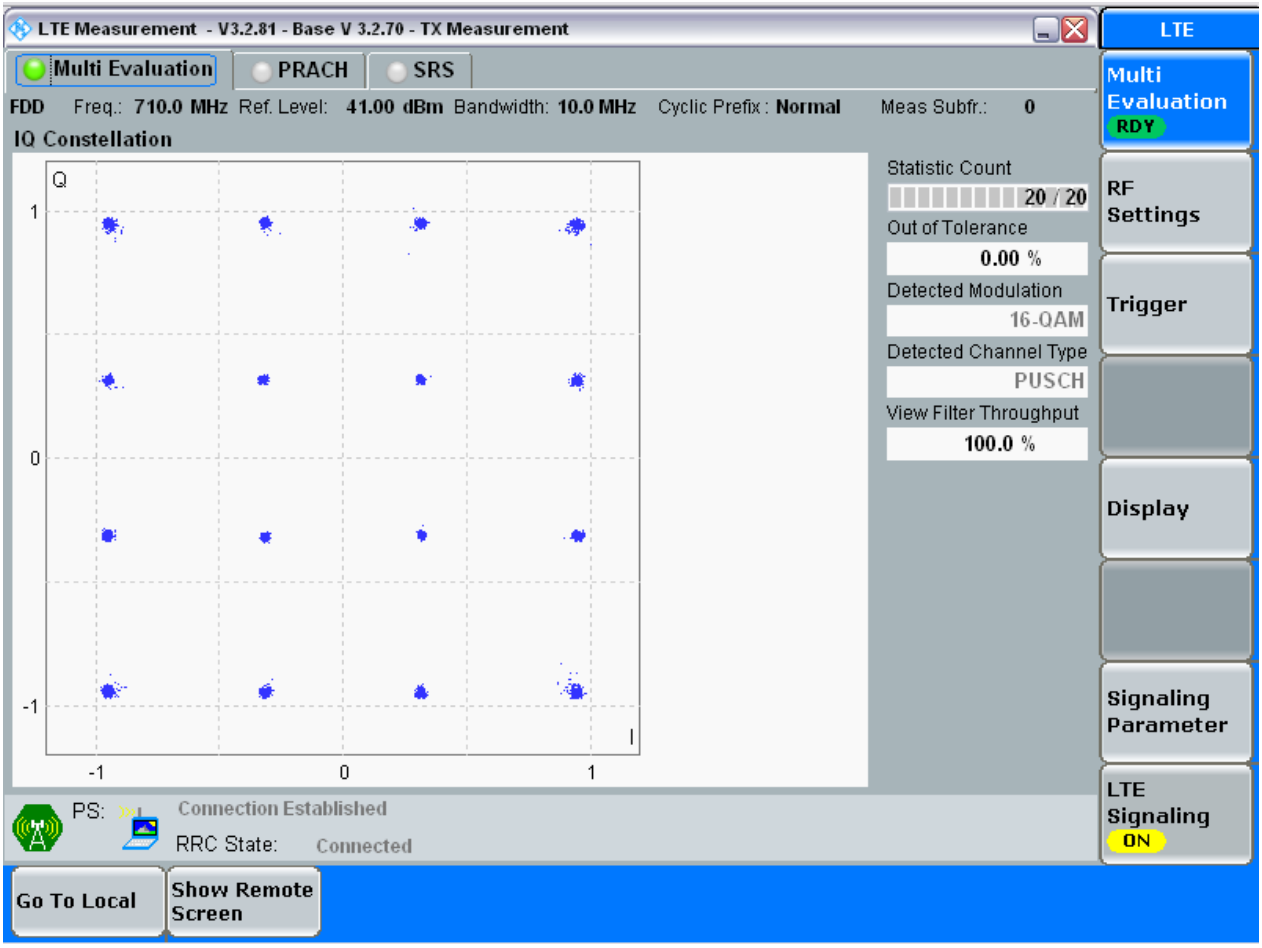


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB50#0



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

4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND17	LTE/TM1	5	LCH	RB25#0	4.51	4.87	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.49	4.83	Pass
		10	LCH	RB50#0	9.03	9.67	Pass
			MCH	RB50#0	9.00	9.64	Pass
			HCH	RB50#0	8.97	9.62	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.86	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.49	4.84	Pass
		10	LCH	RB50#0	9.02	9.72	Pass
			MCH	RB50#0	9.01	9.66	Pass
			HCH	RB50#0	8.98	9.65	Pass

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

Part II - Test Plots

4.1 For LTE

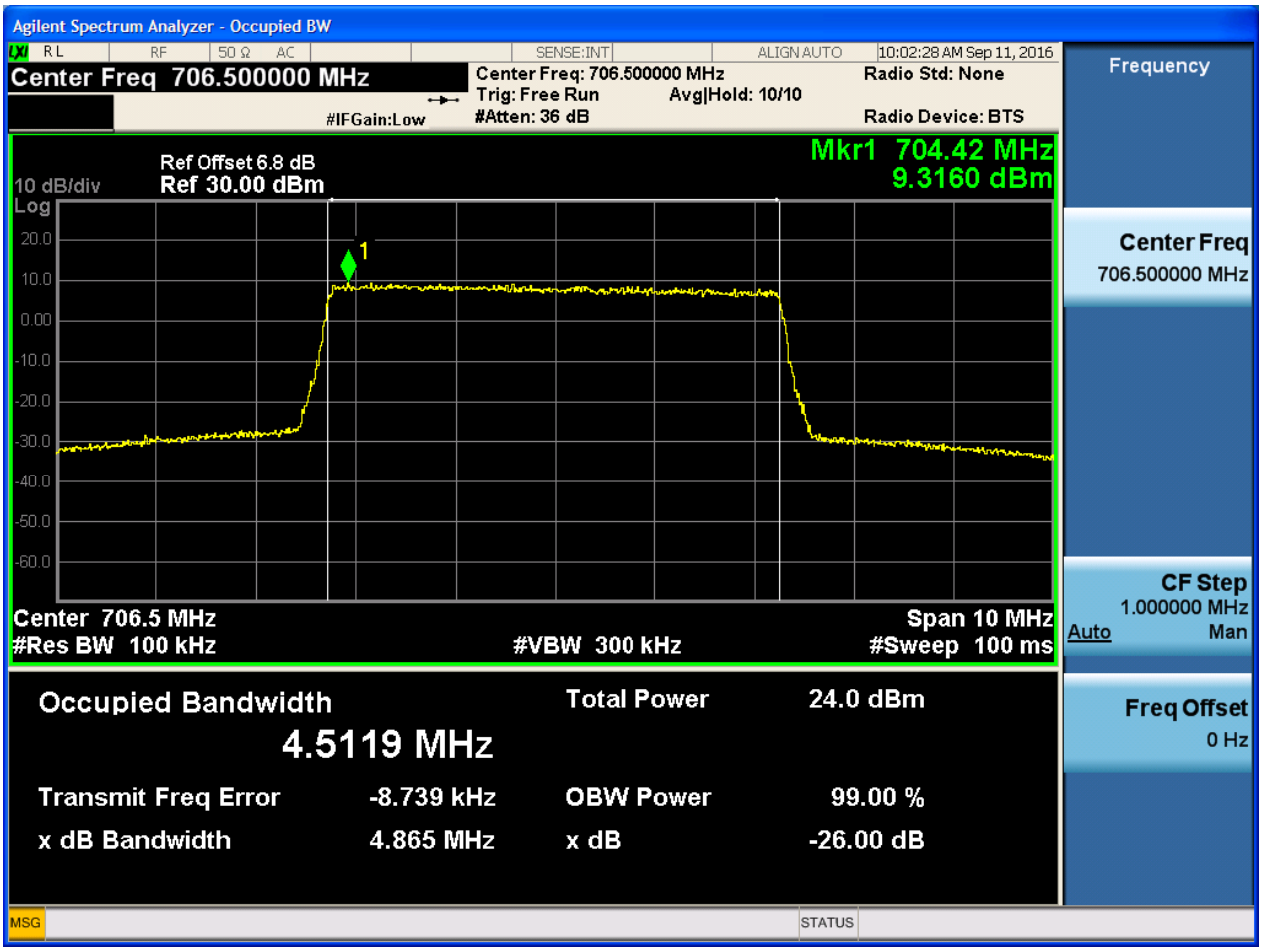
4.1.1 Test Band = BAND17

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

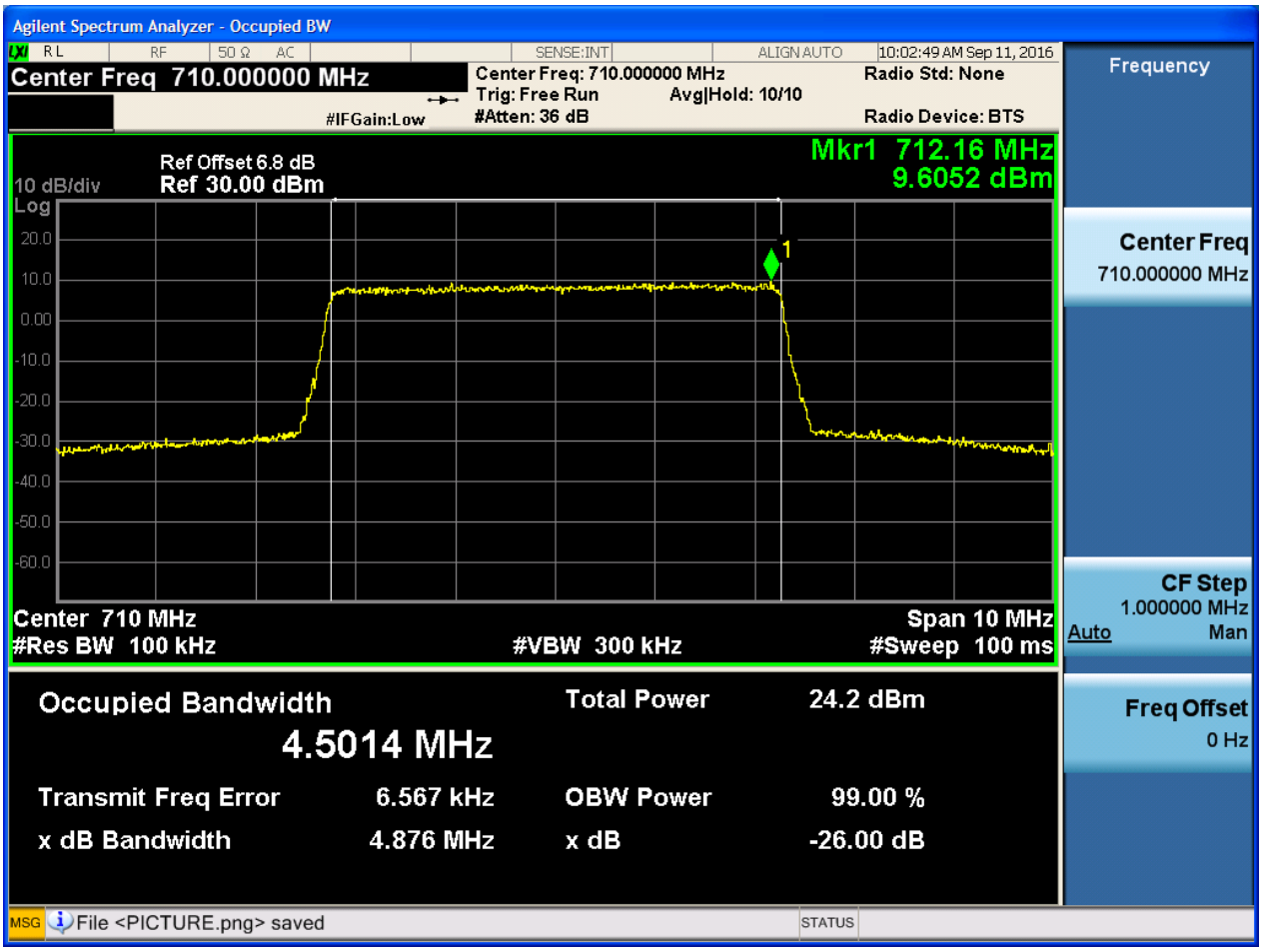
4.1.1.1.1.1.1 Test RB = RB25#0



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

4.1.1.1.1.2 Test Channel = MCH

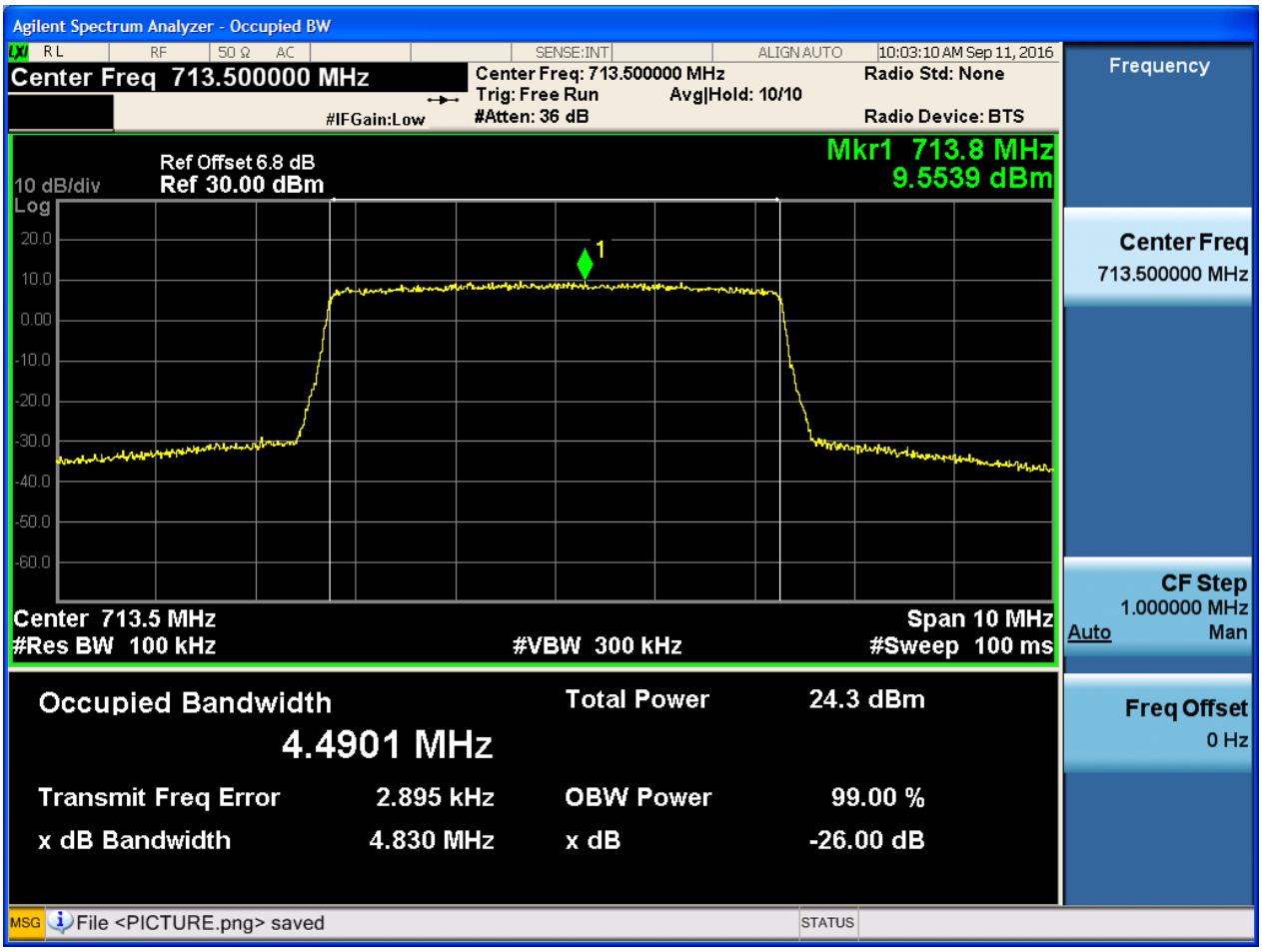
4.1.1.1.1.2.1 Test RB = RB25#0



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

4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

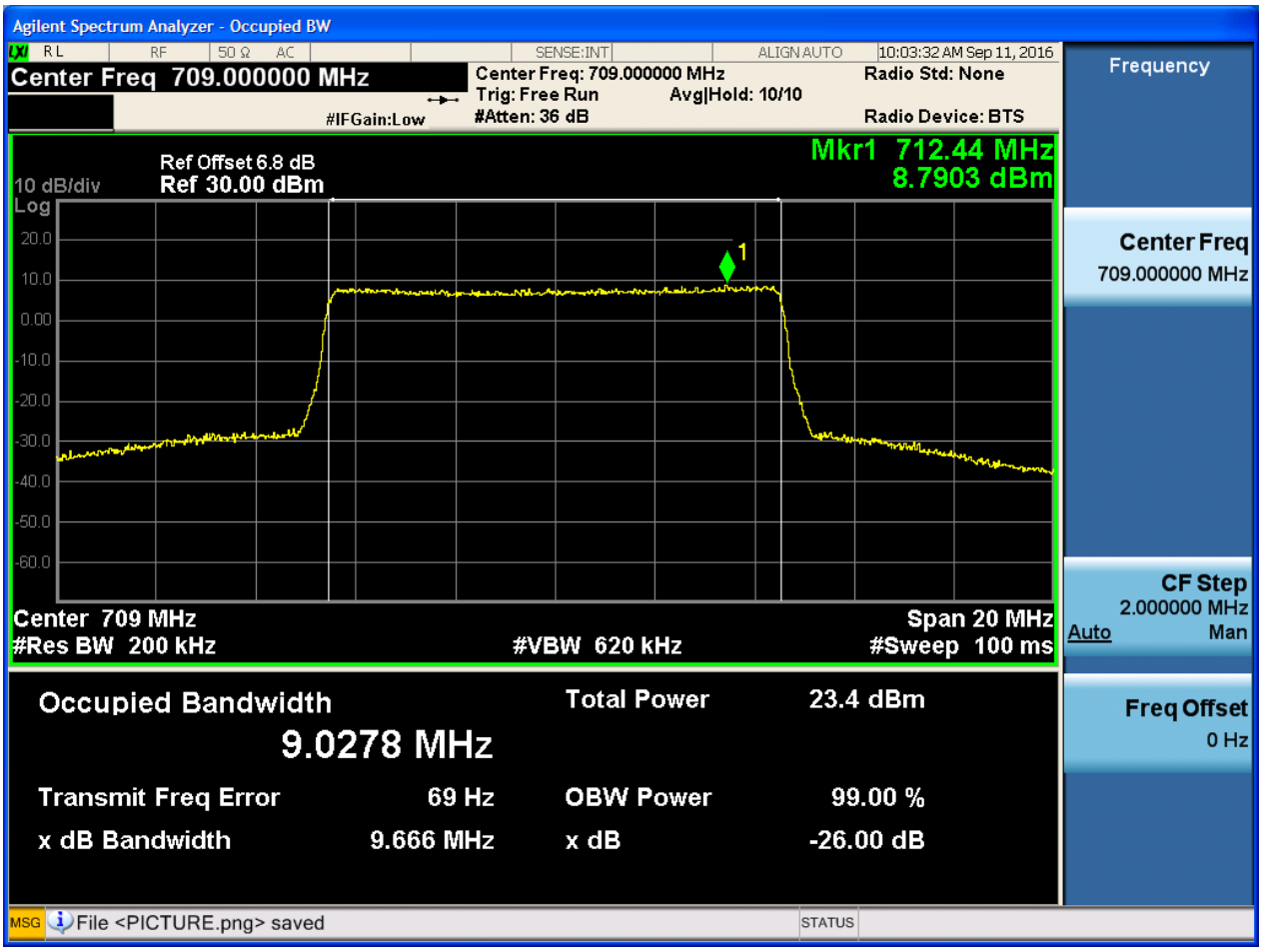


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

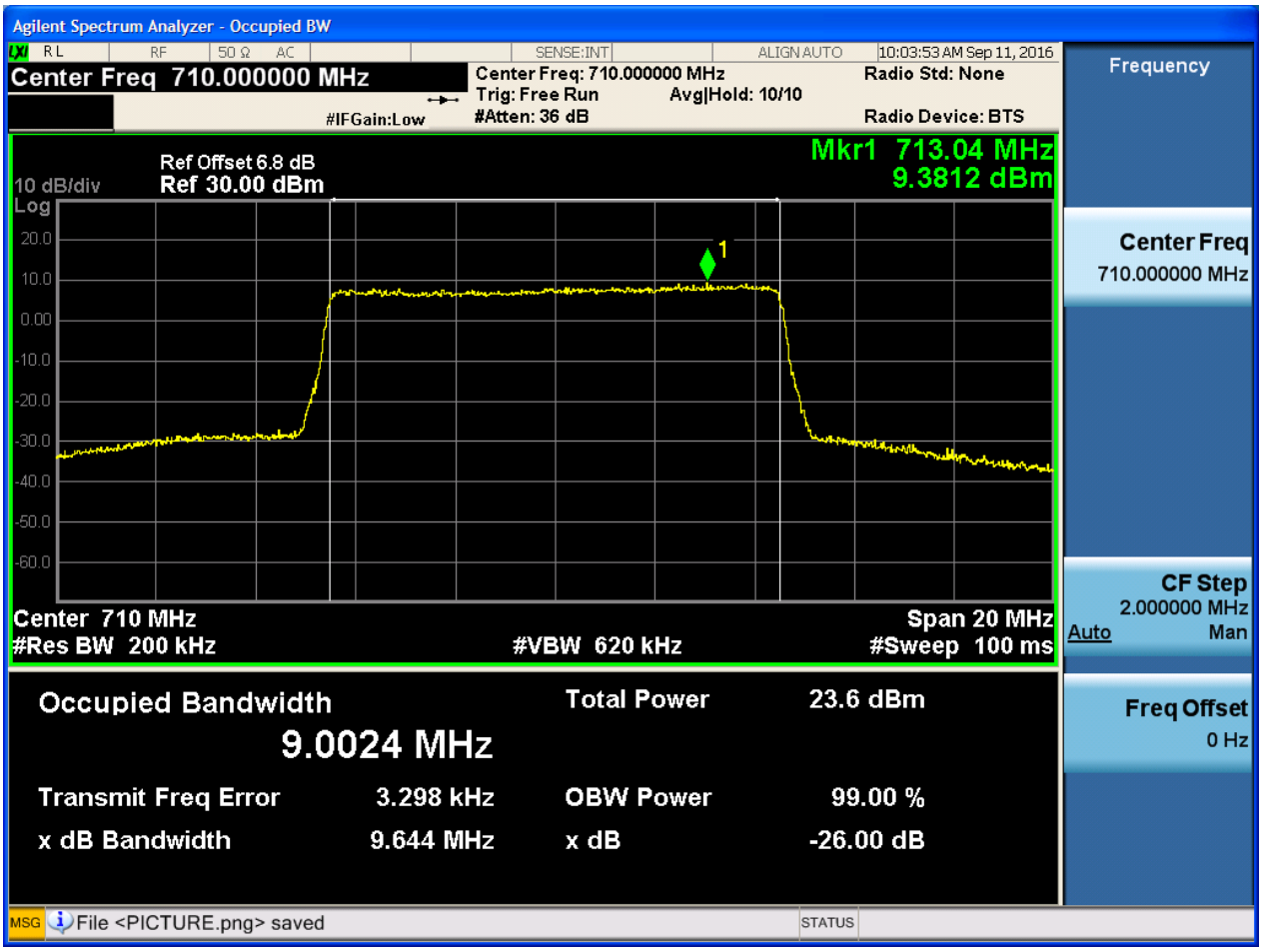
4.1.1.1.2.1.1 Test RB = RB50#0



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

4.1.1.1.2.2 Test Channel = MCH

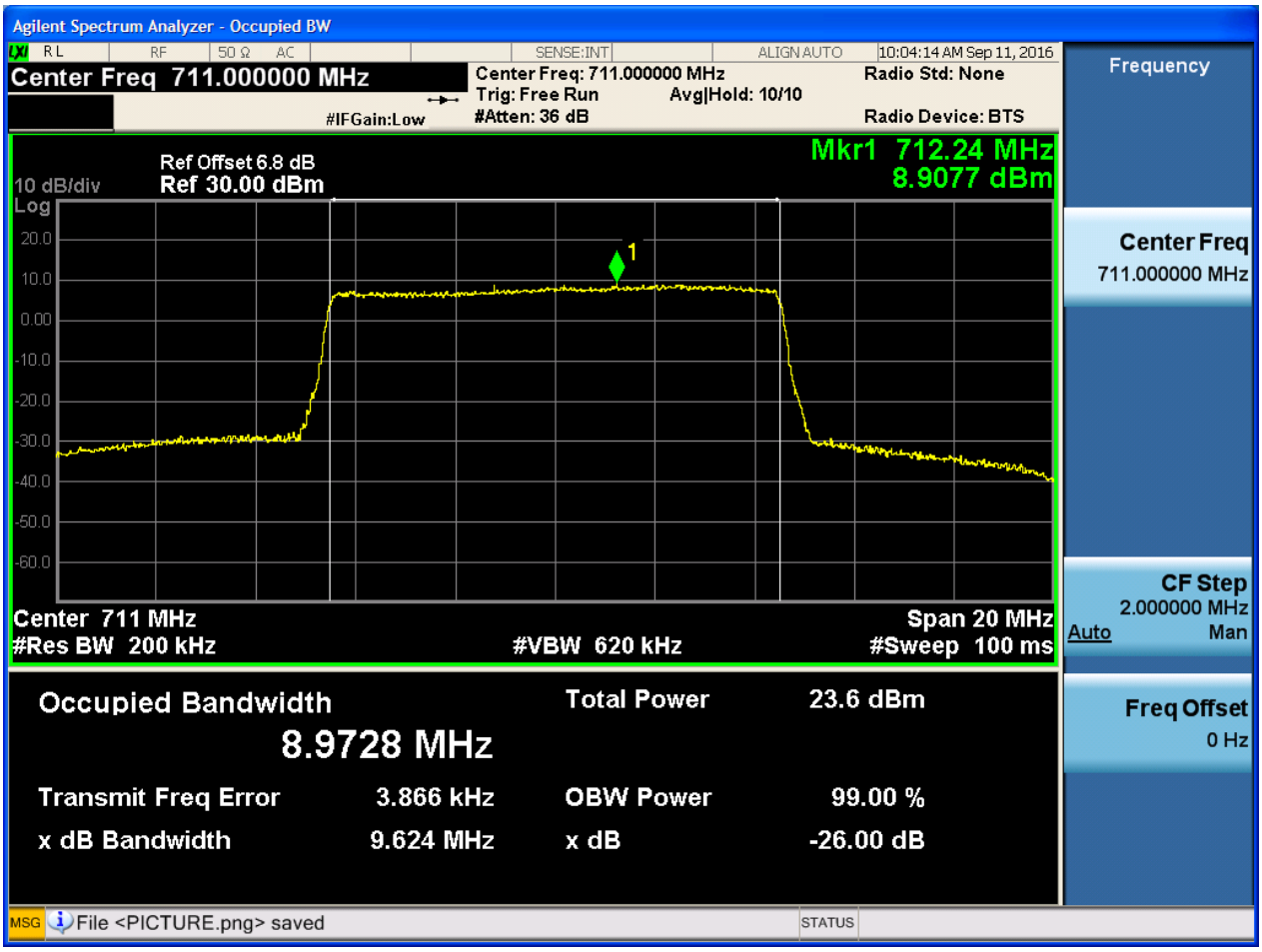
4.1.1.1.2.2.1 Test RB = RB50#0



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

4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0



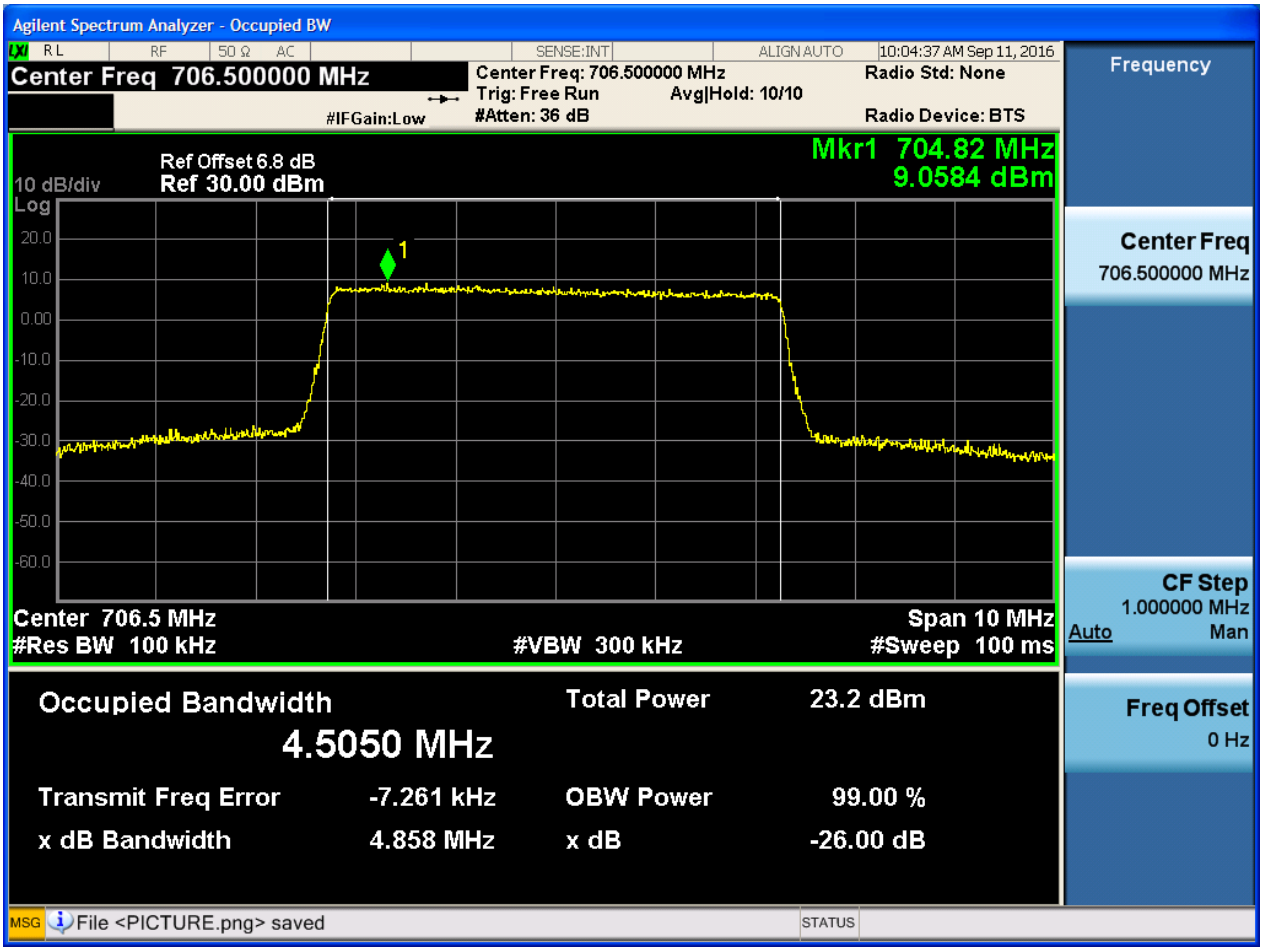
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

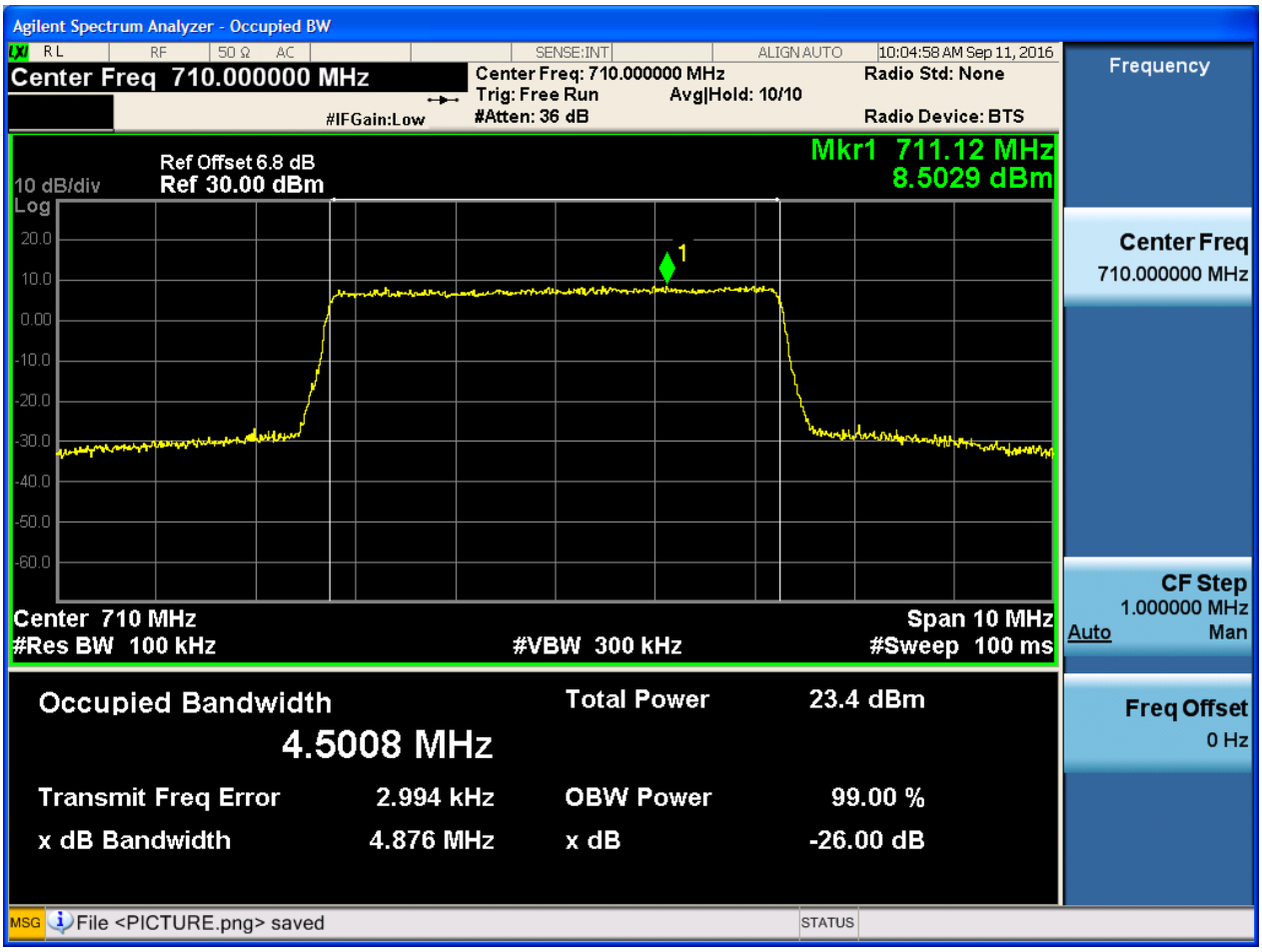
4.1.1.2.1.1.1 Test RB = RB25#0



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

4.1.1.2.1.2 Test Channel = MCH

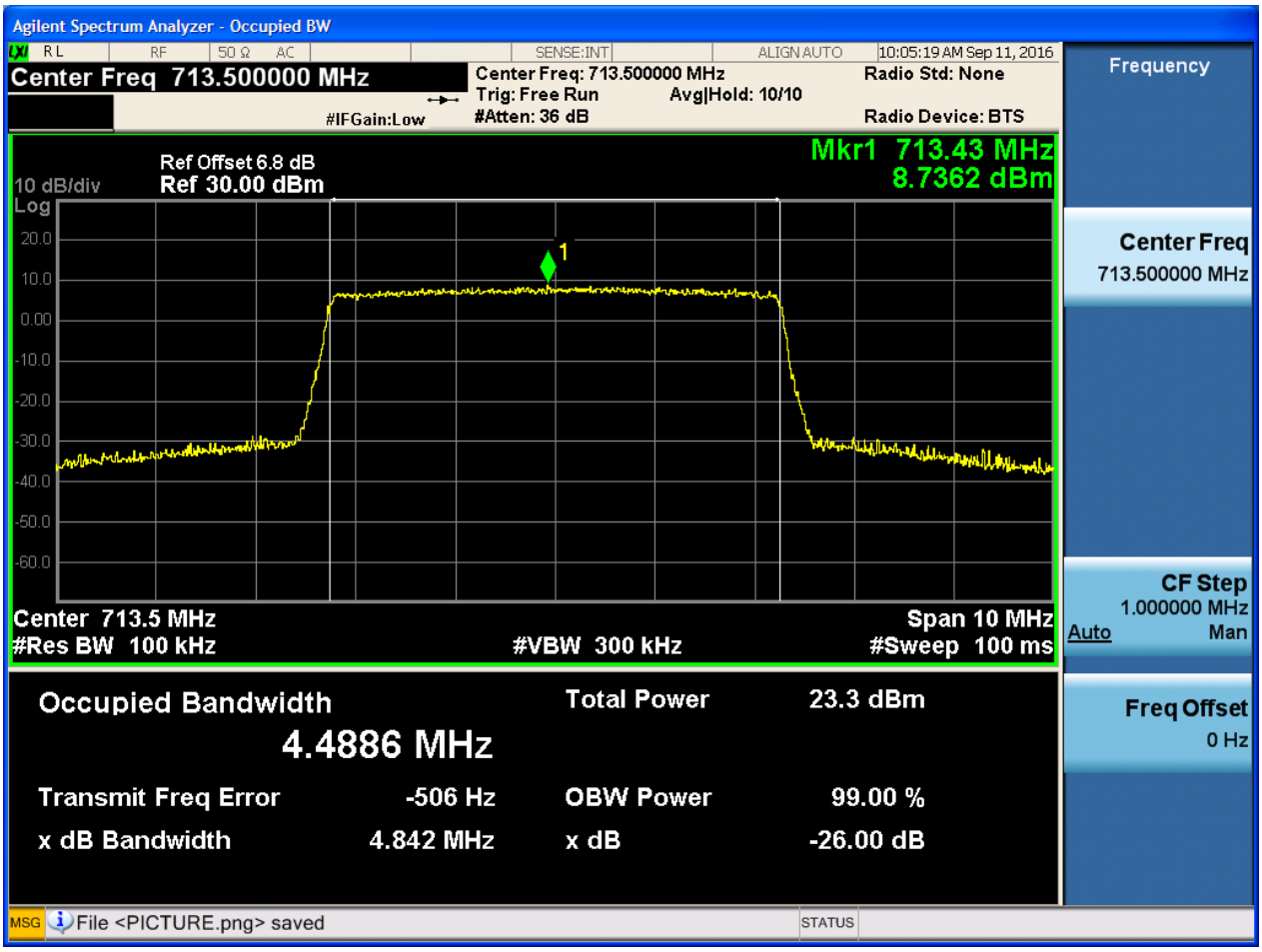
4.1.1.2.1.2.1 Test RB = RB25#0



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

4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

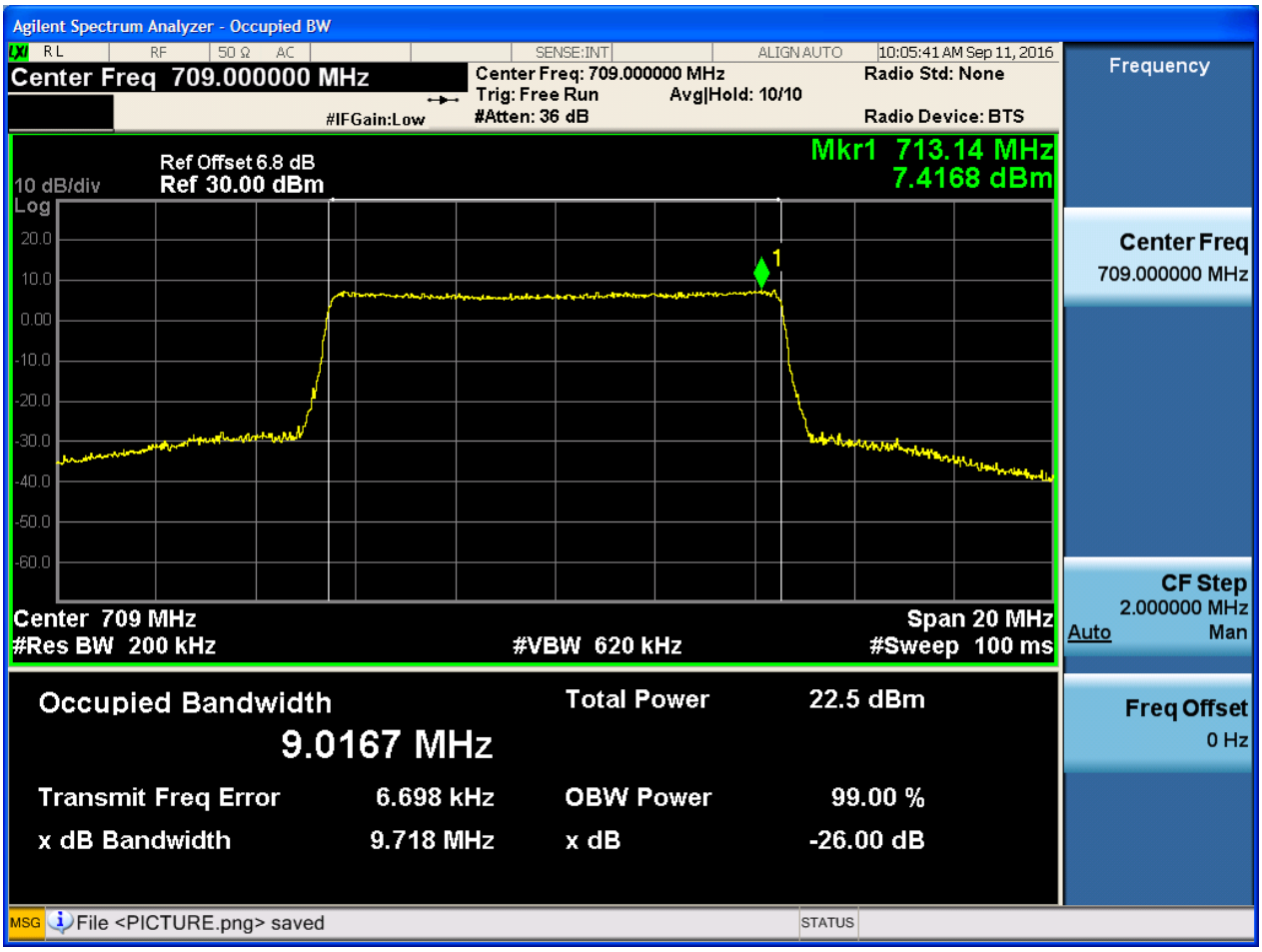


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

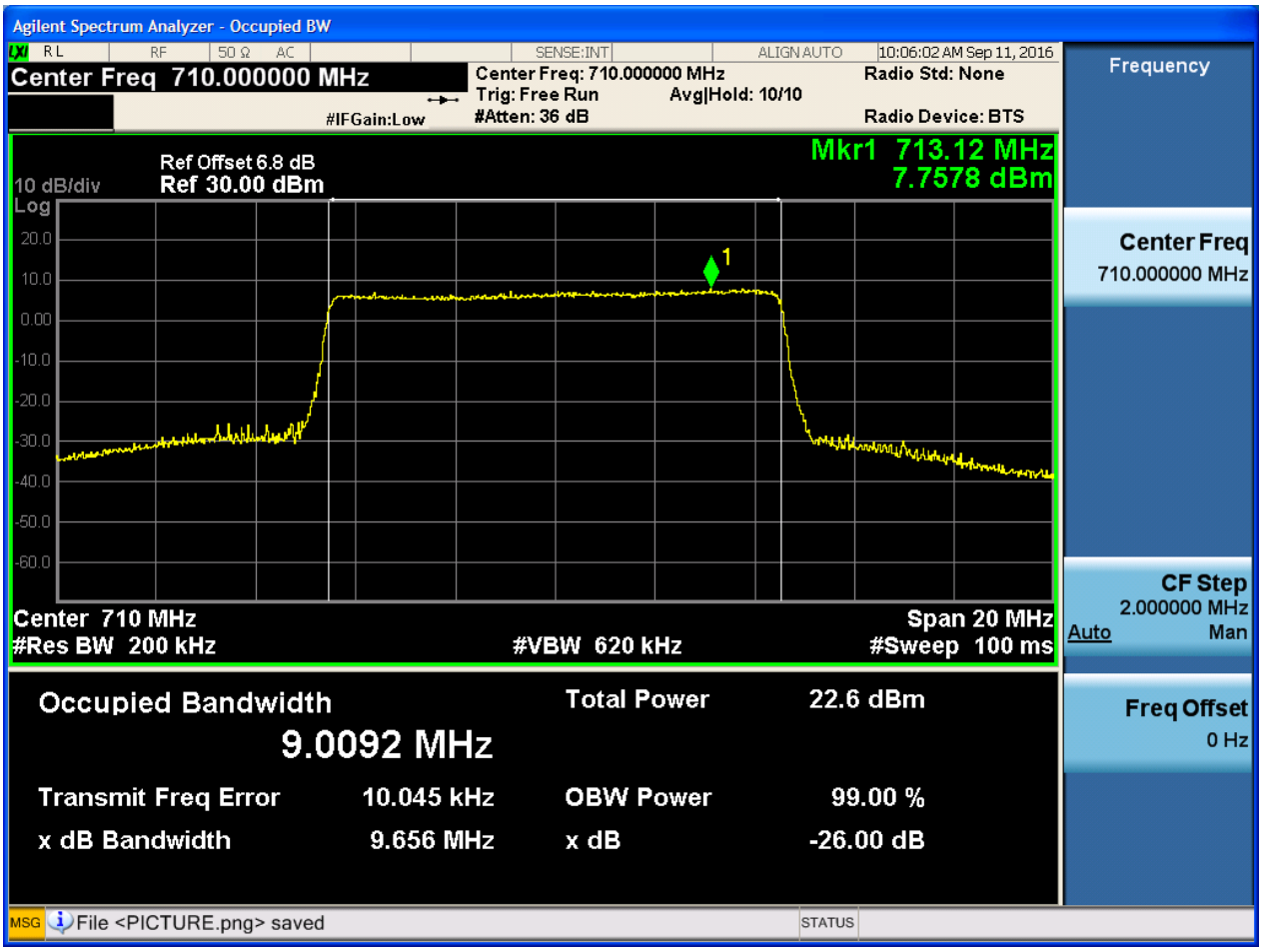
4.1.1.2.2.1.1 Test RB = RB50#0



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

4.1.1.2.2.2 Test Channel = MCH

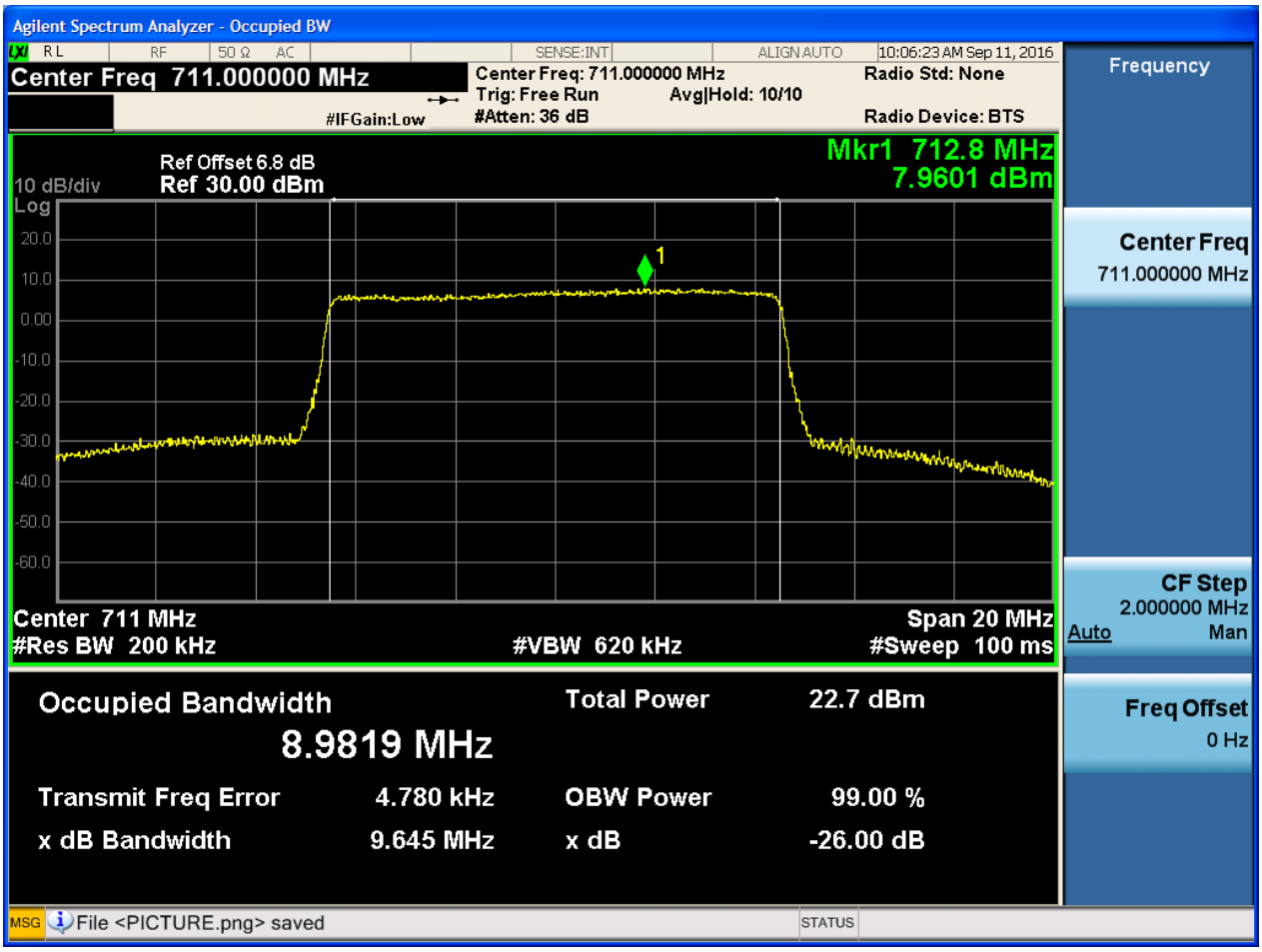
4.1.1.2.2.2.1 Test RB = RB50#0



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

4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0



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

5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

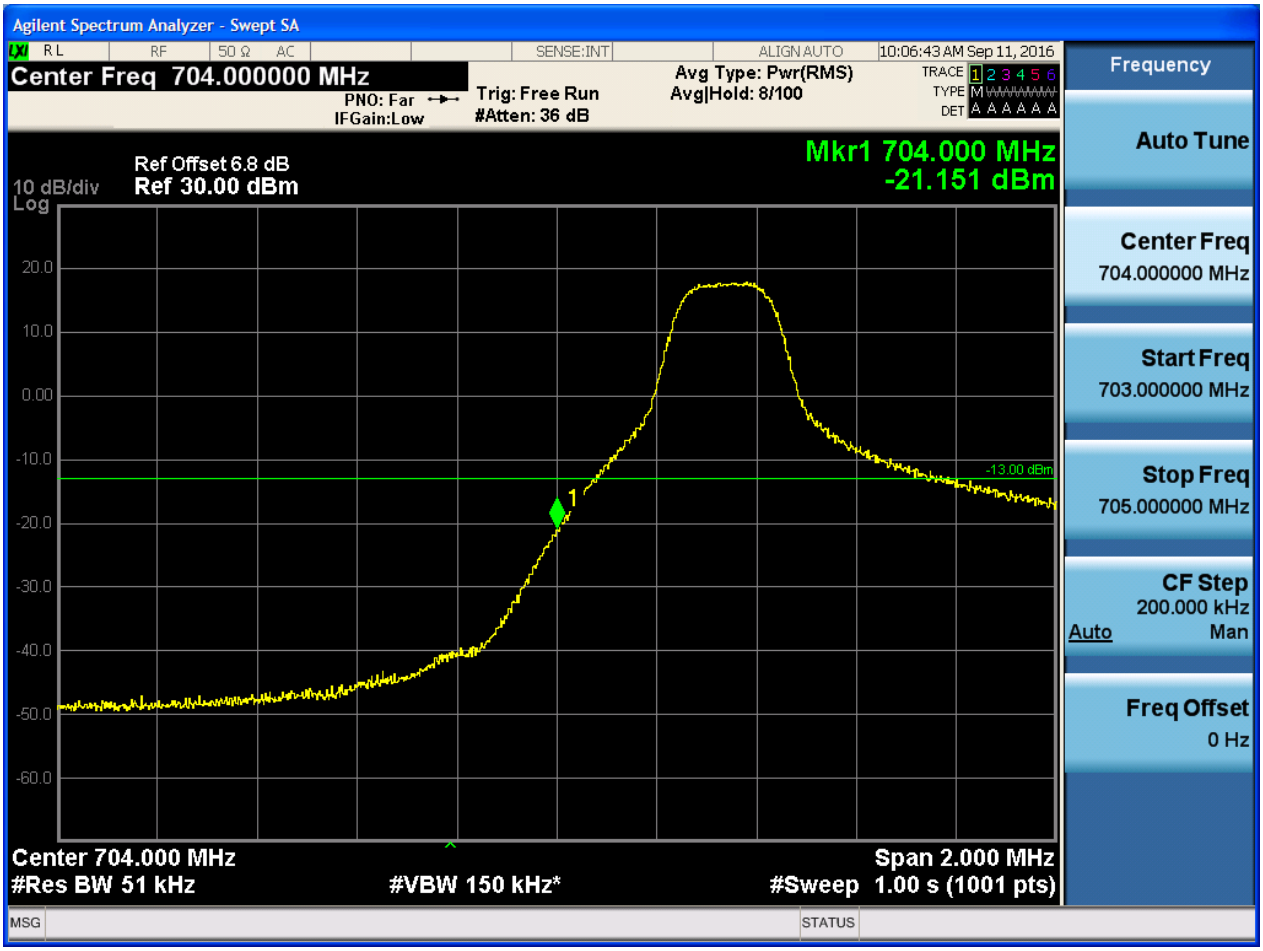
5.1.1 Test Band = BAND17

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

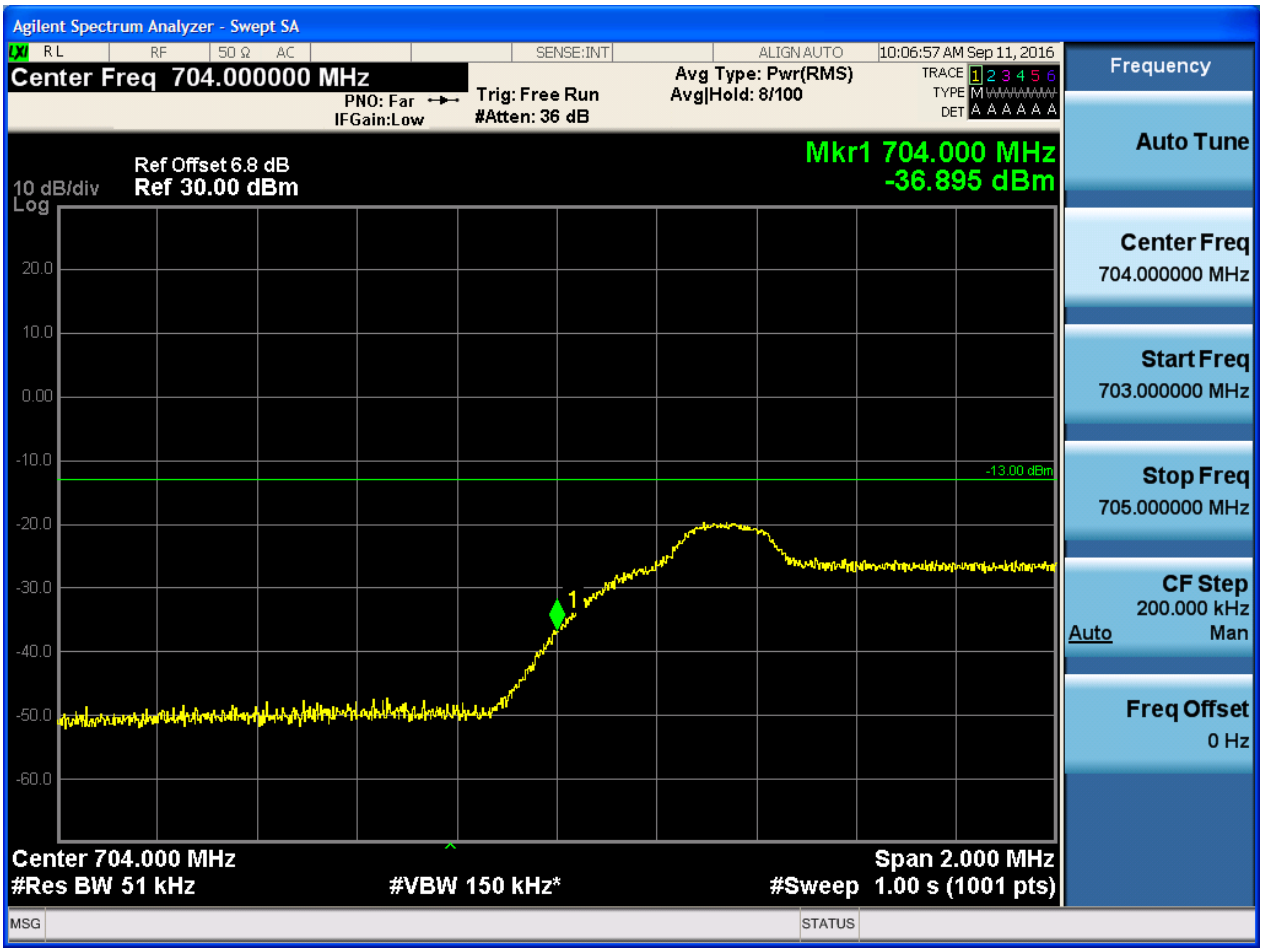
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



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

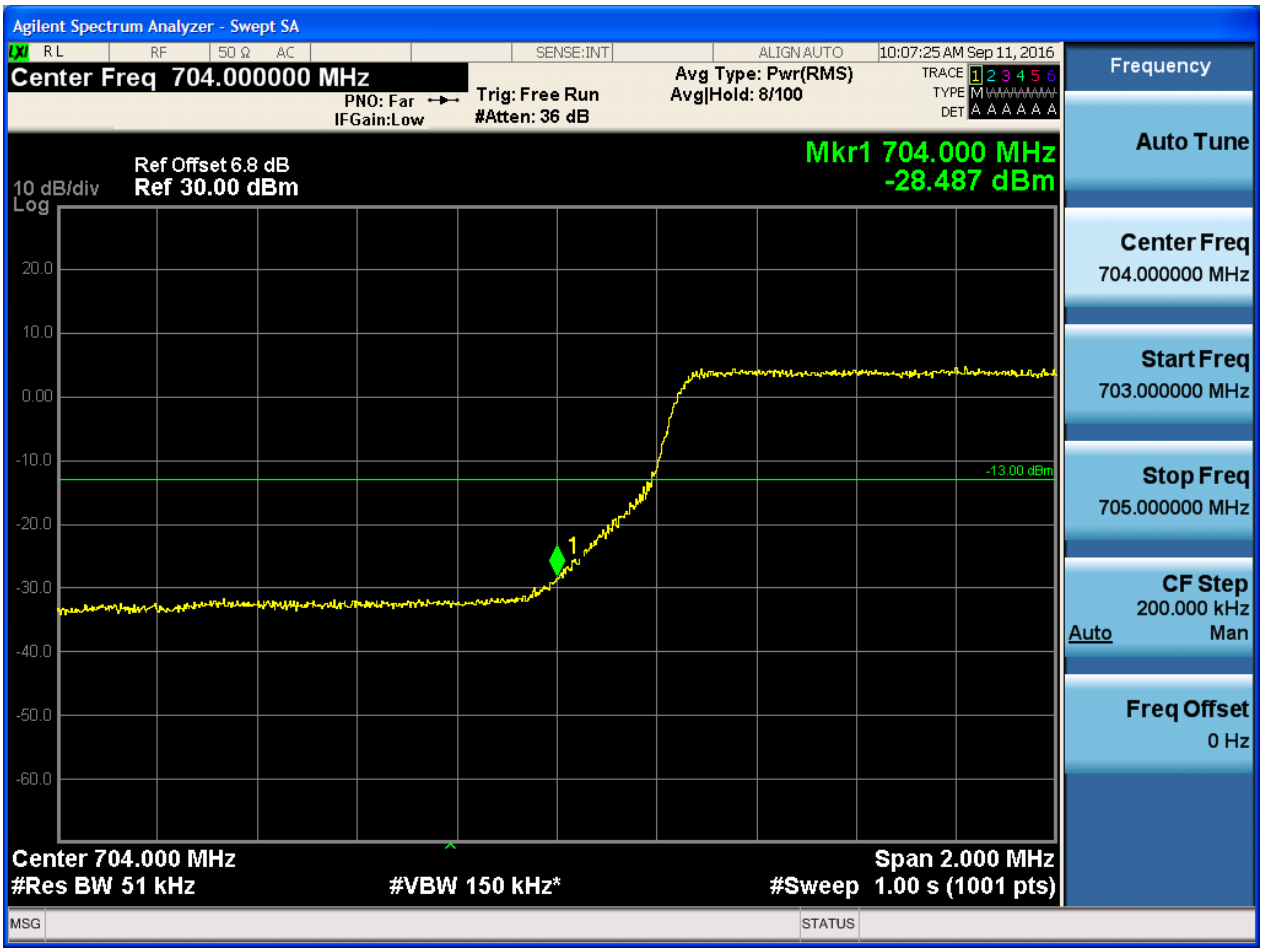
5.1.1.1.1.1.2 Test RB = RB1#24



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

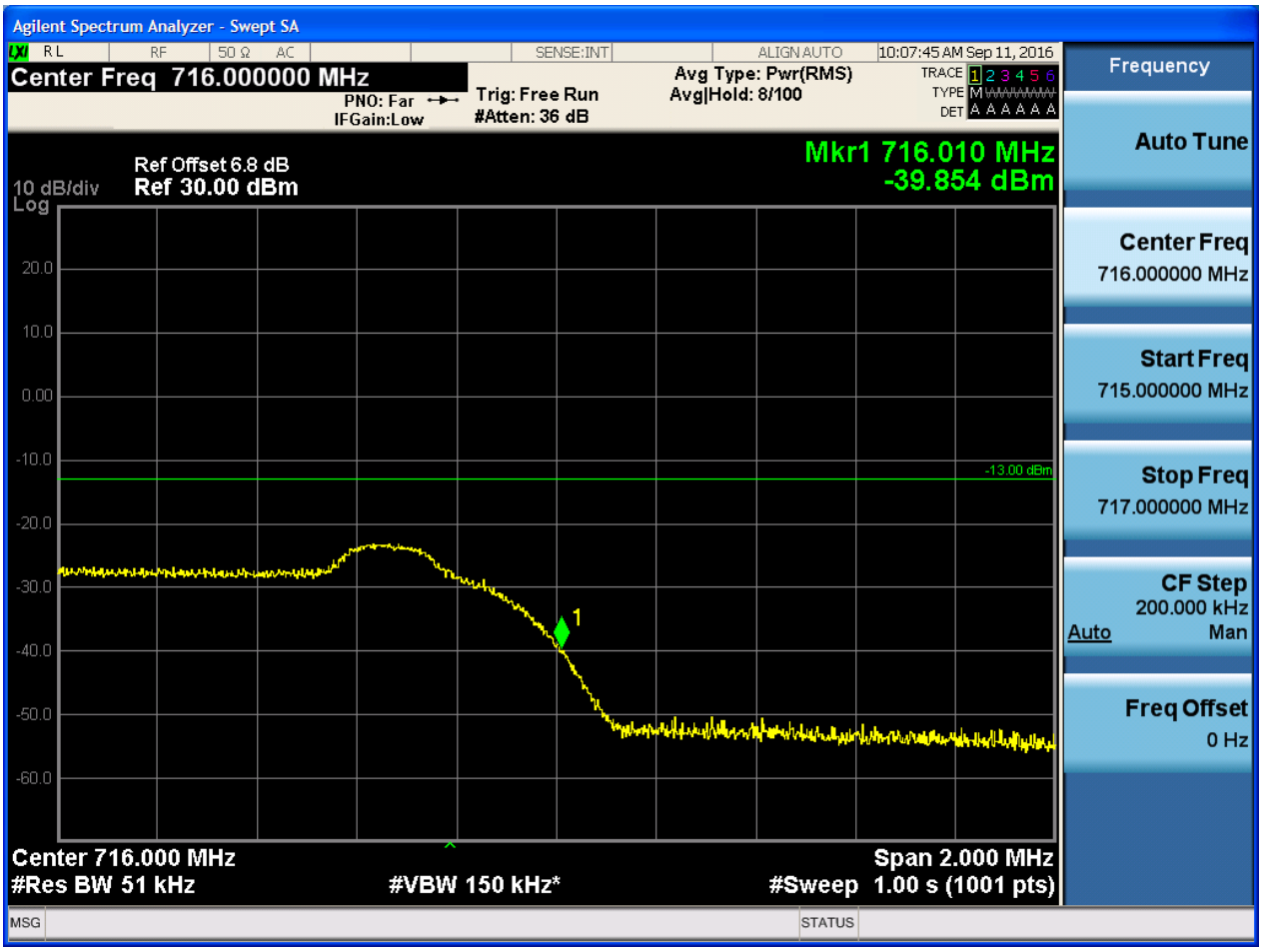
5.1.1.1.1.1.3 Test RB = RB12#6

5.1.1.1.1.1.4 Test RB = RB25#0



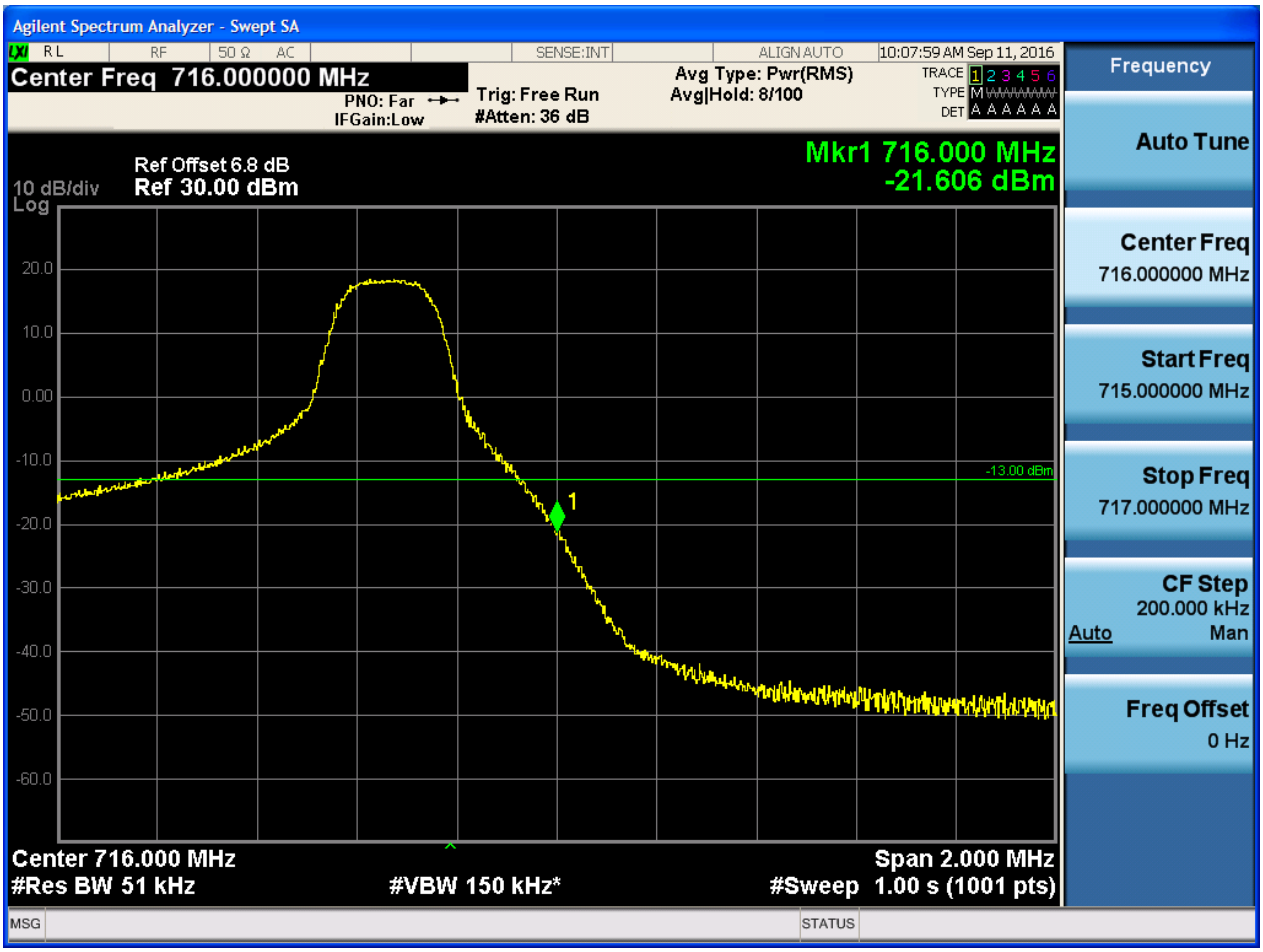
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



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

5.1.1.1.1.2.2 Test RB = RB1#24



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

5.1.1.1.1.2.3 Test RB = RB12#6

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

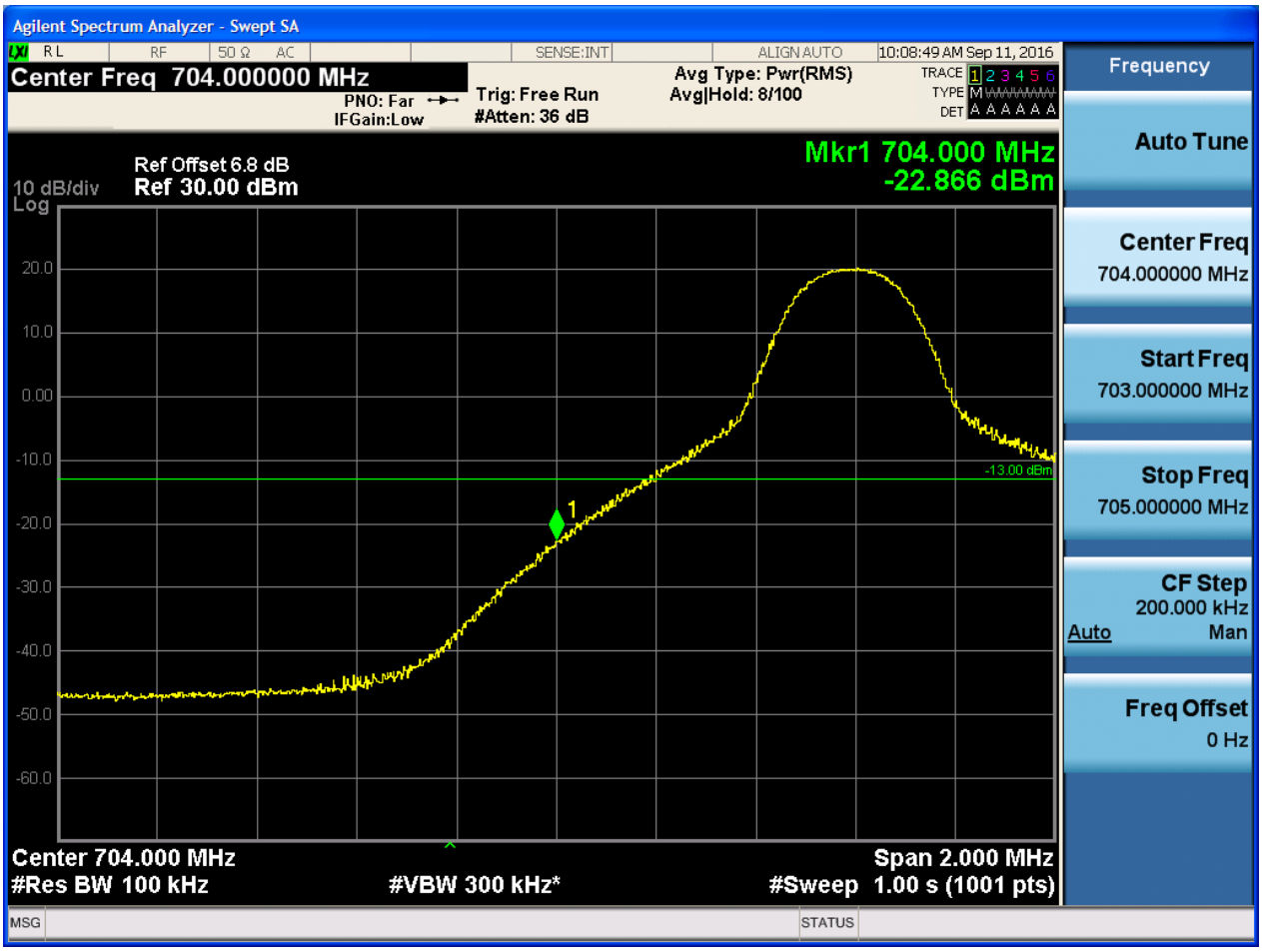
5.1.1.1.1.2.4 Test RB = RB25#0

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

5.1.1.1.2 Test Bandwidth = 10

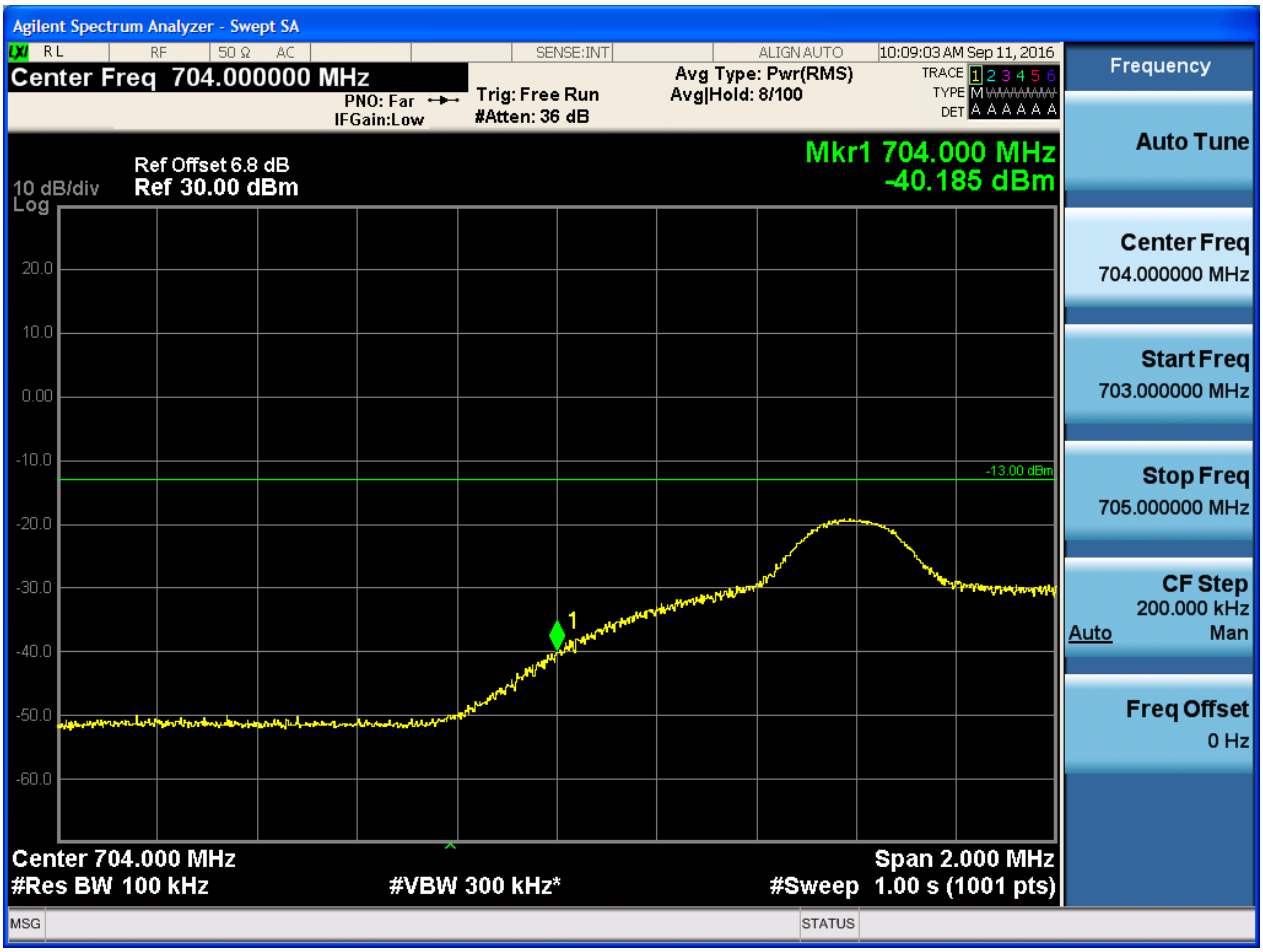
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0

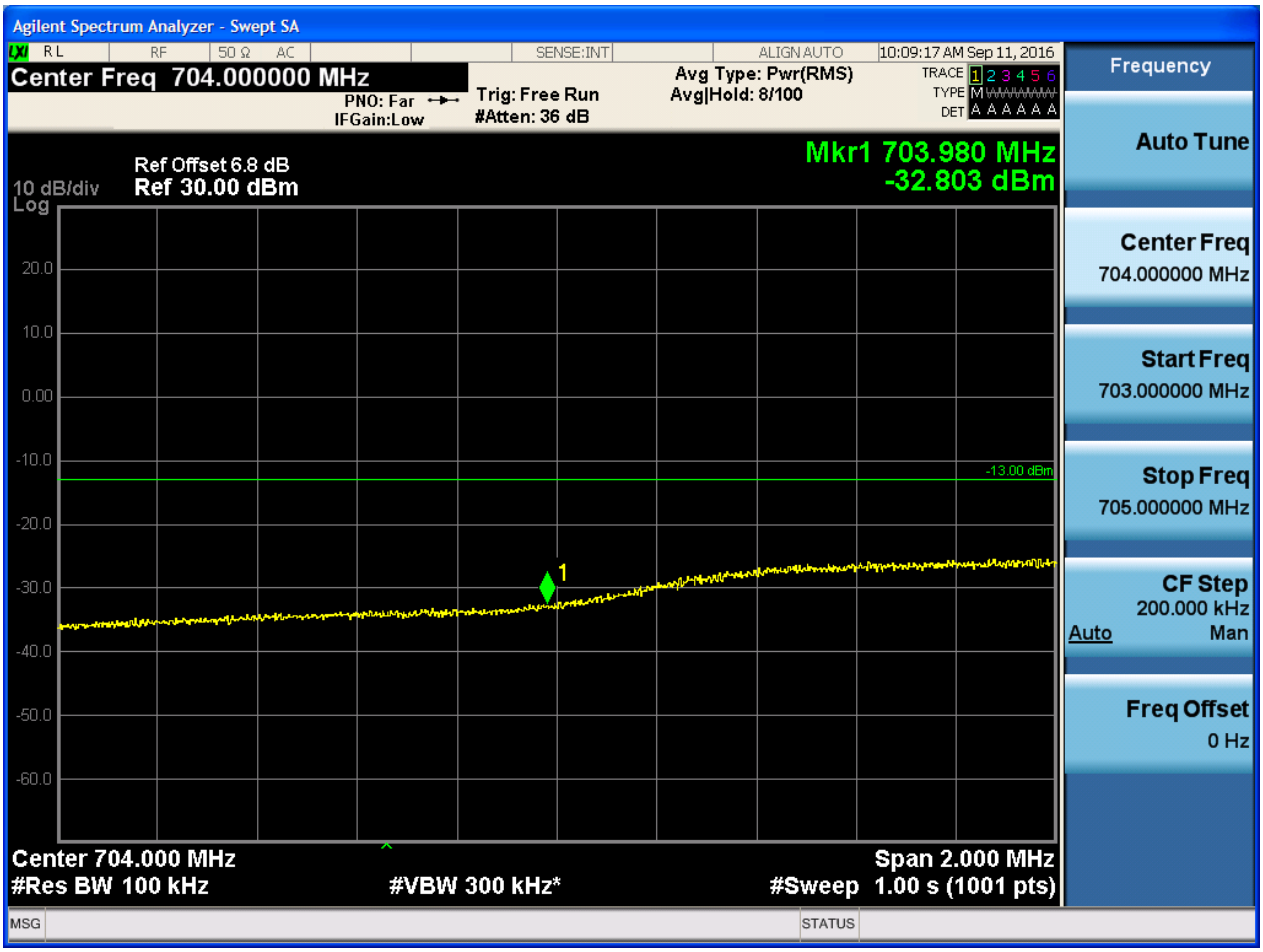


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.1.2.1.2 Test RB = RB1#49

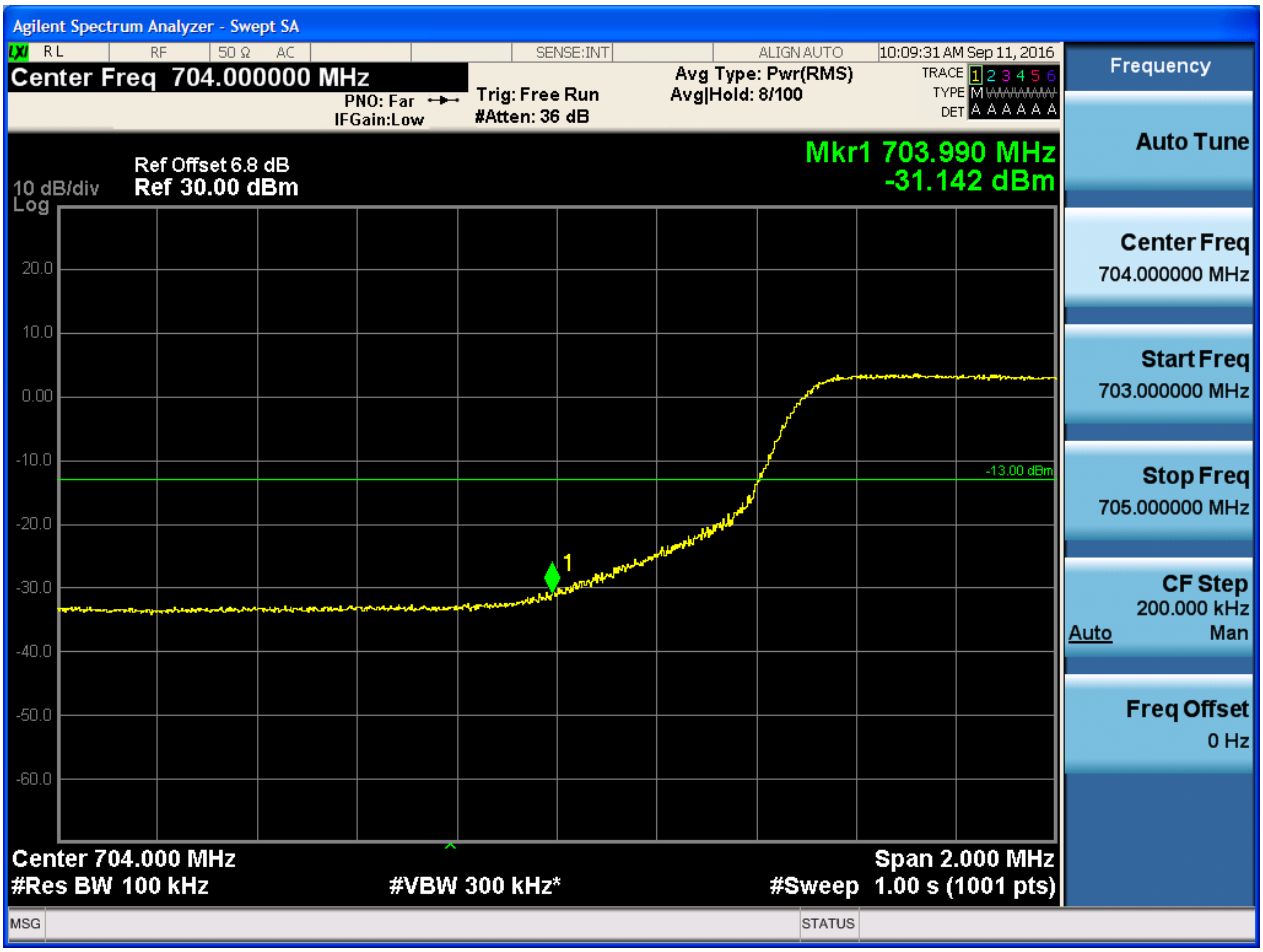


5.1.1.1.2.1.3 Test RB = RB25#13



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

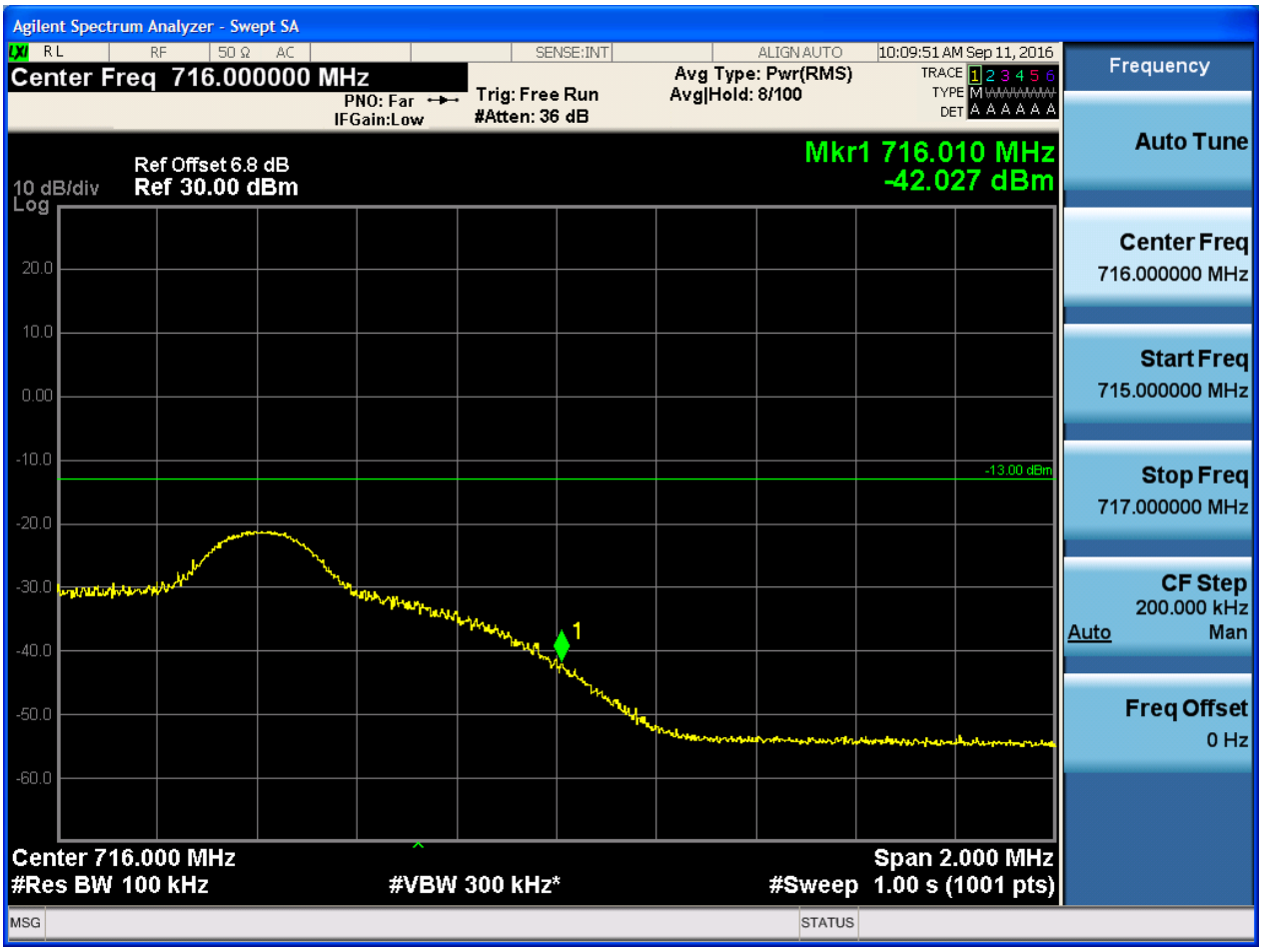
5.1.1.1.2.1.4 Test RB = RB50#0



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

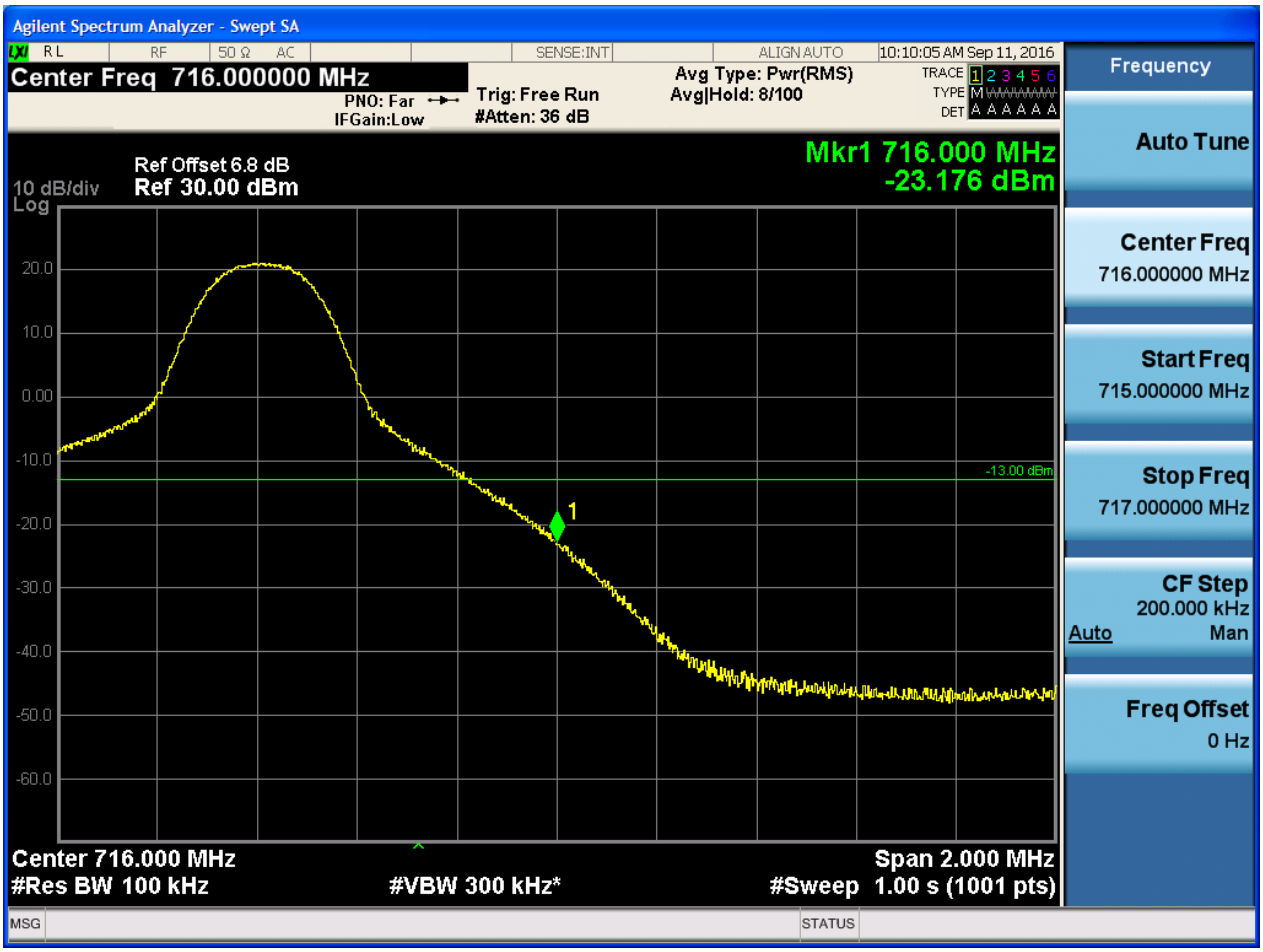
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0



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

5.1.1.1.2.2.2 Test RB = RB1#49



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

5.1.1.1.2.2.3 Test RB = RB25#13

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

5.1.1.1.2.2.4 Test RB = RB50#0

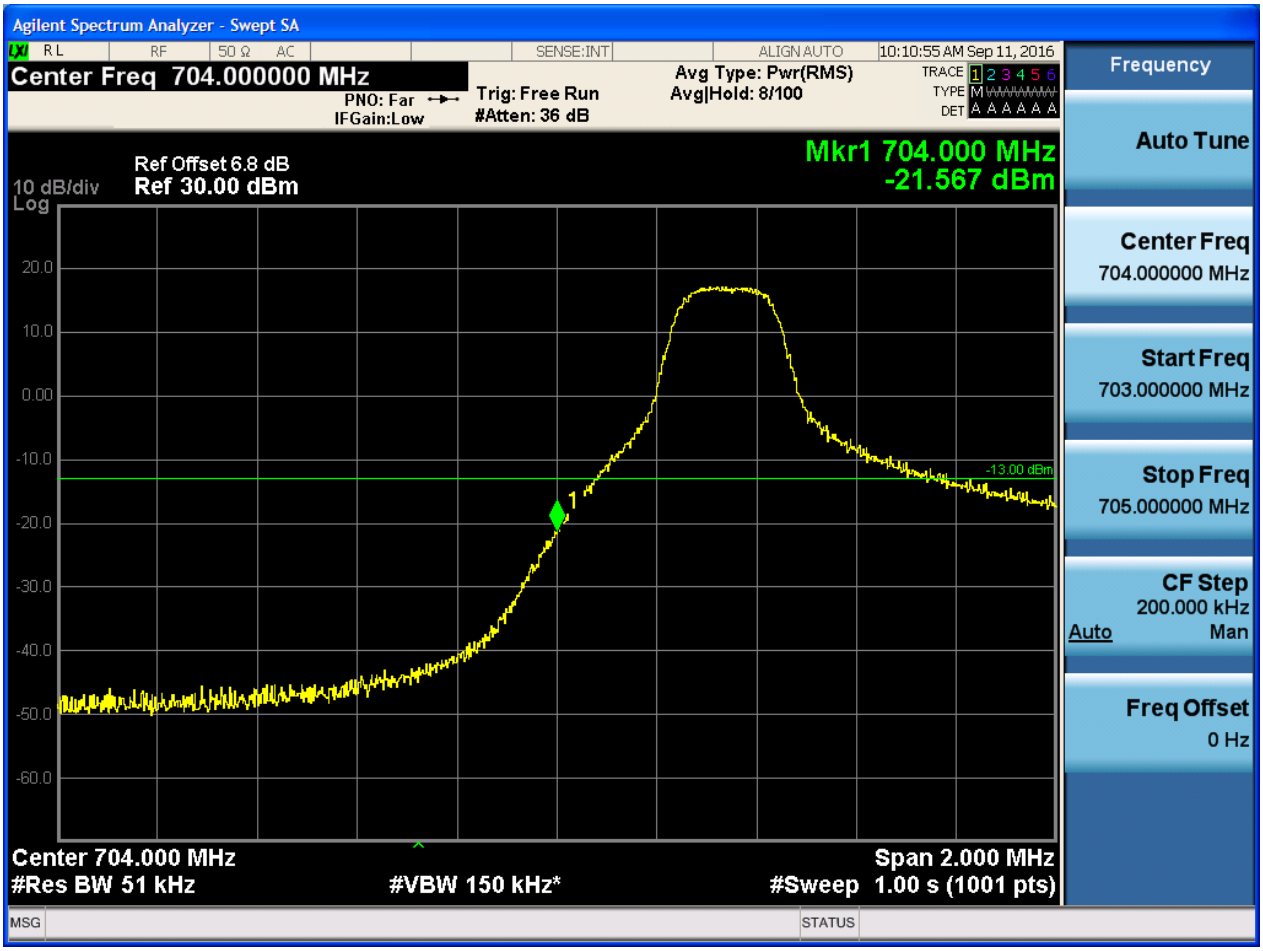
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

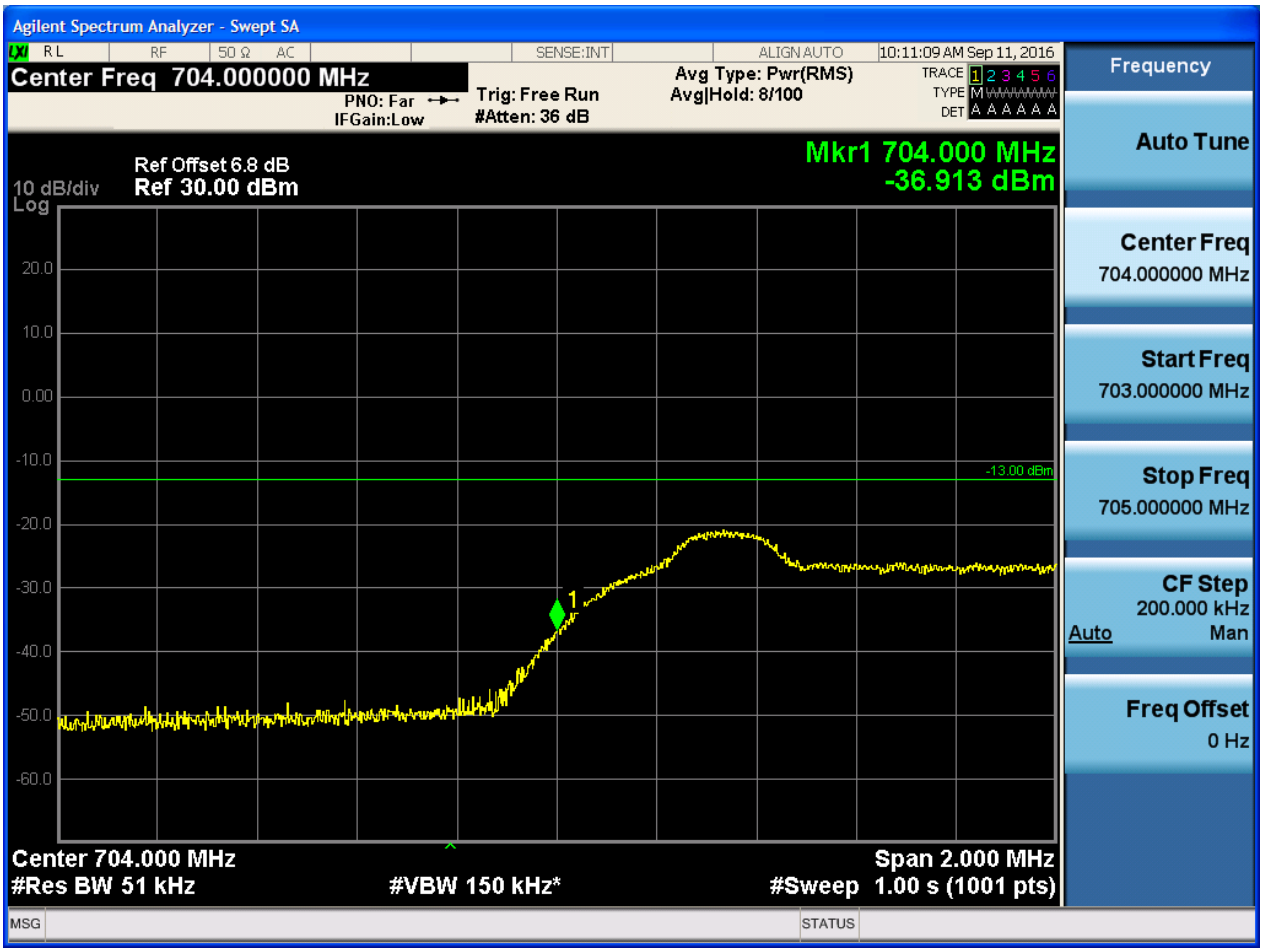
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



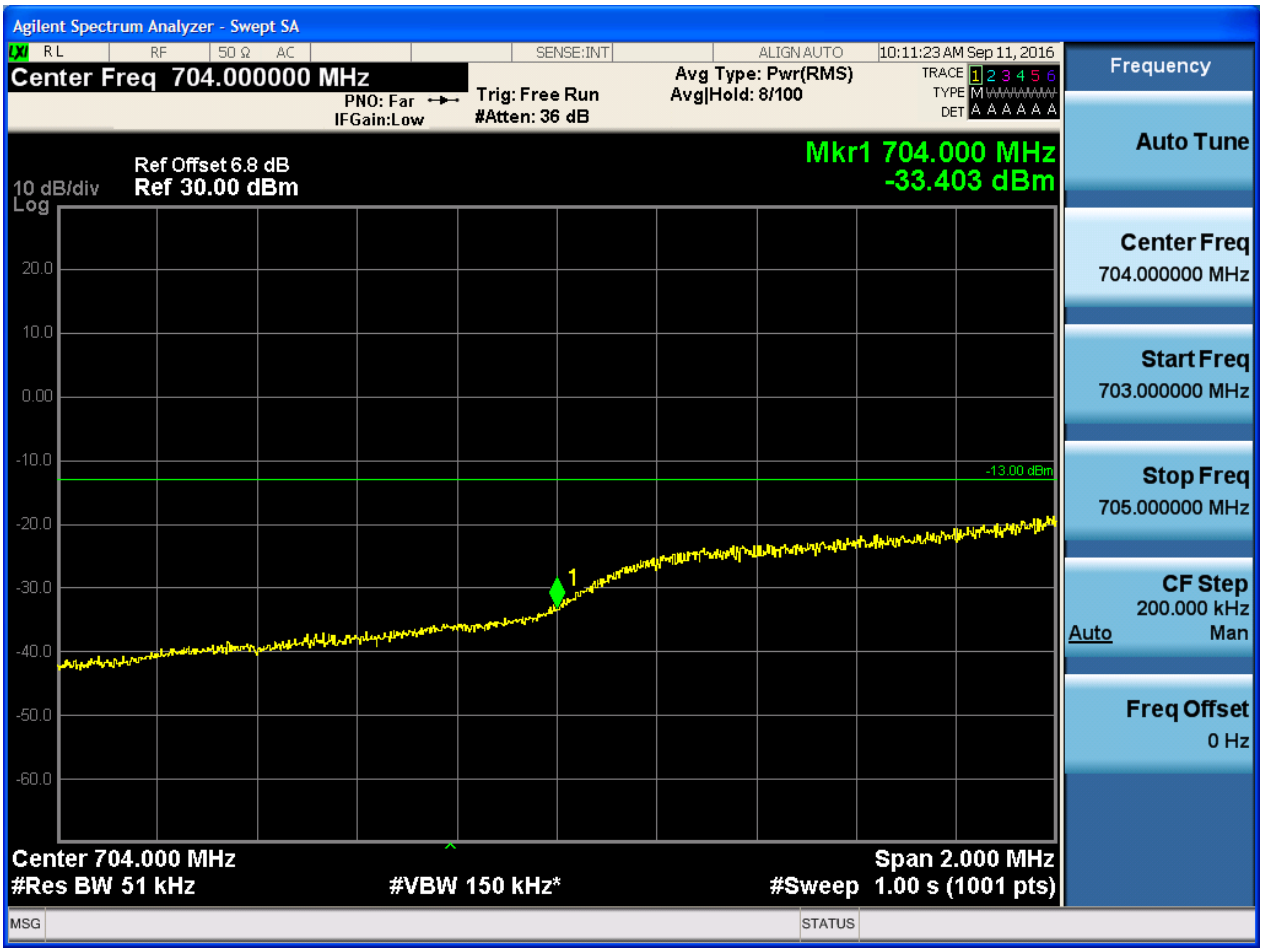
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.1.1.2 Test RB = RB1#24



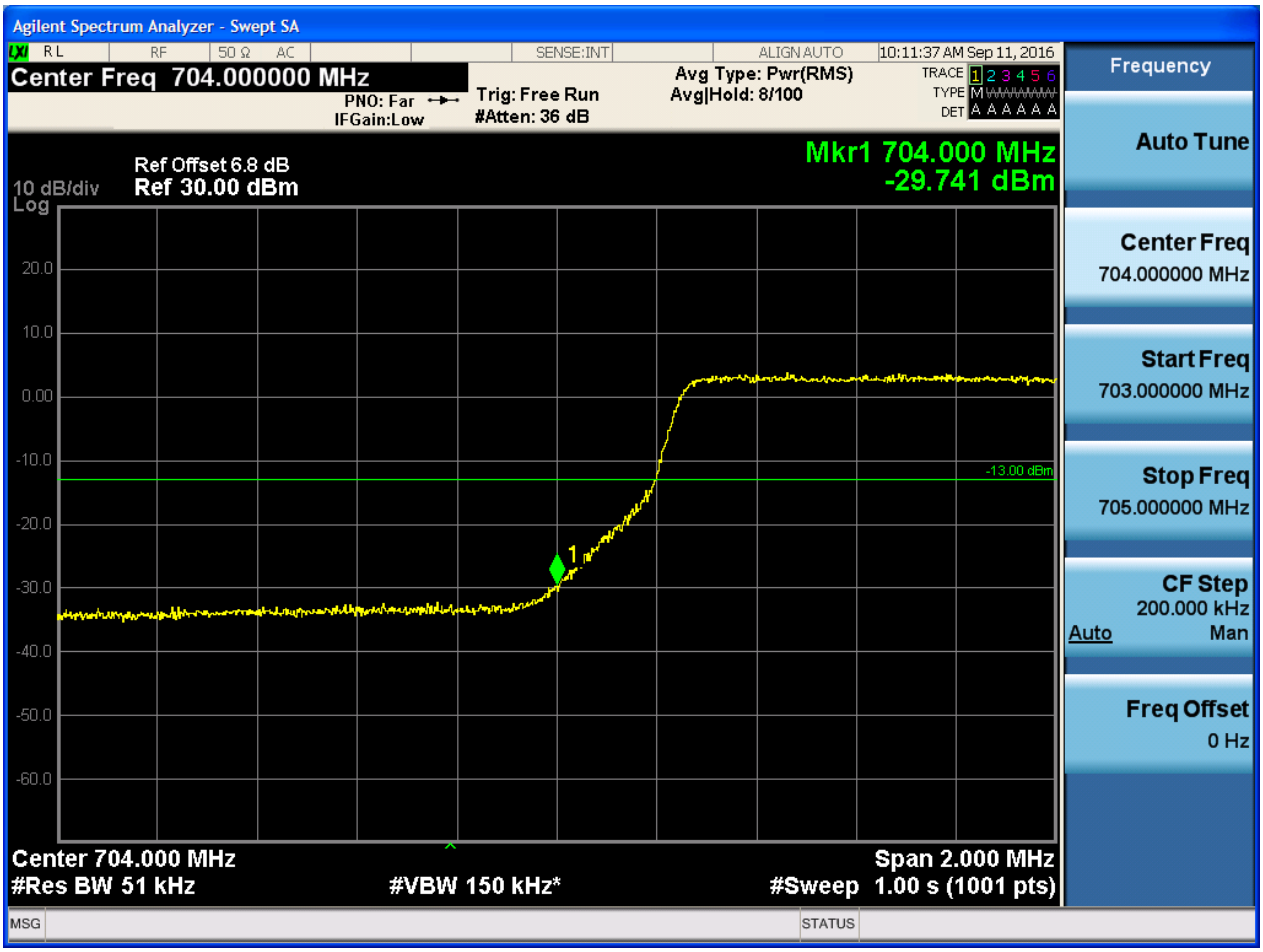
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.1.1.3 Test RB = RB12#6



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

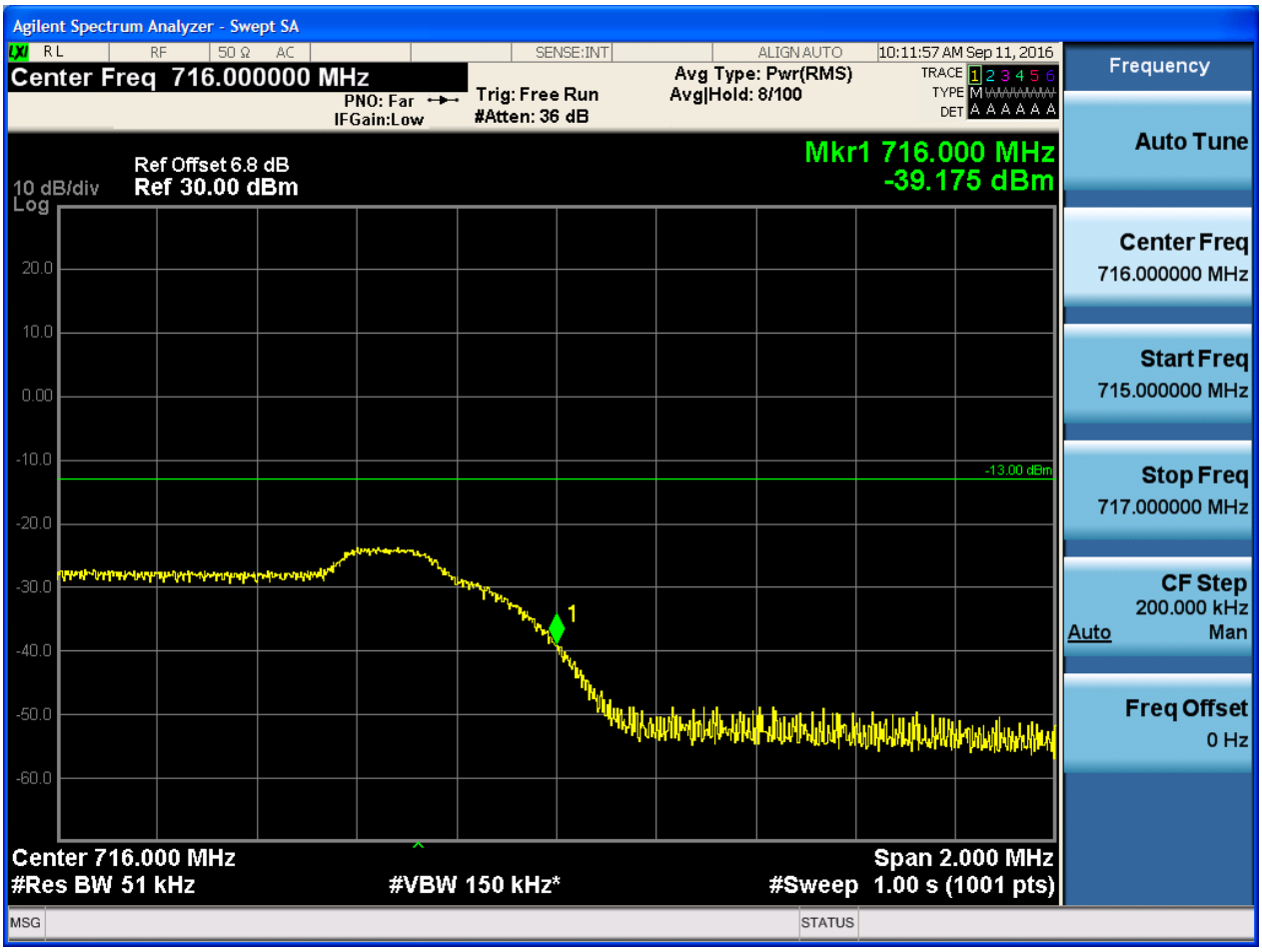
5.1.1.2.1.1.4 Test RB = RB25#0



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

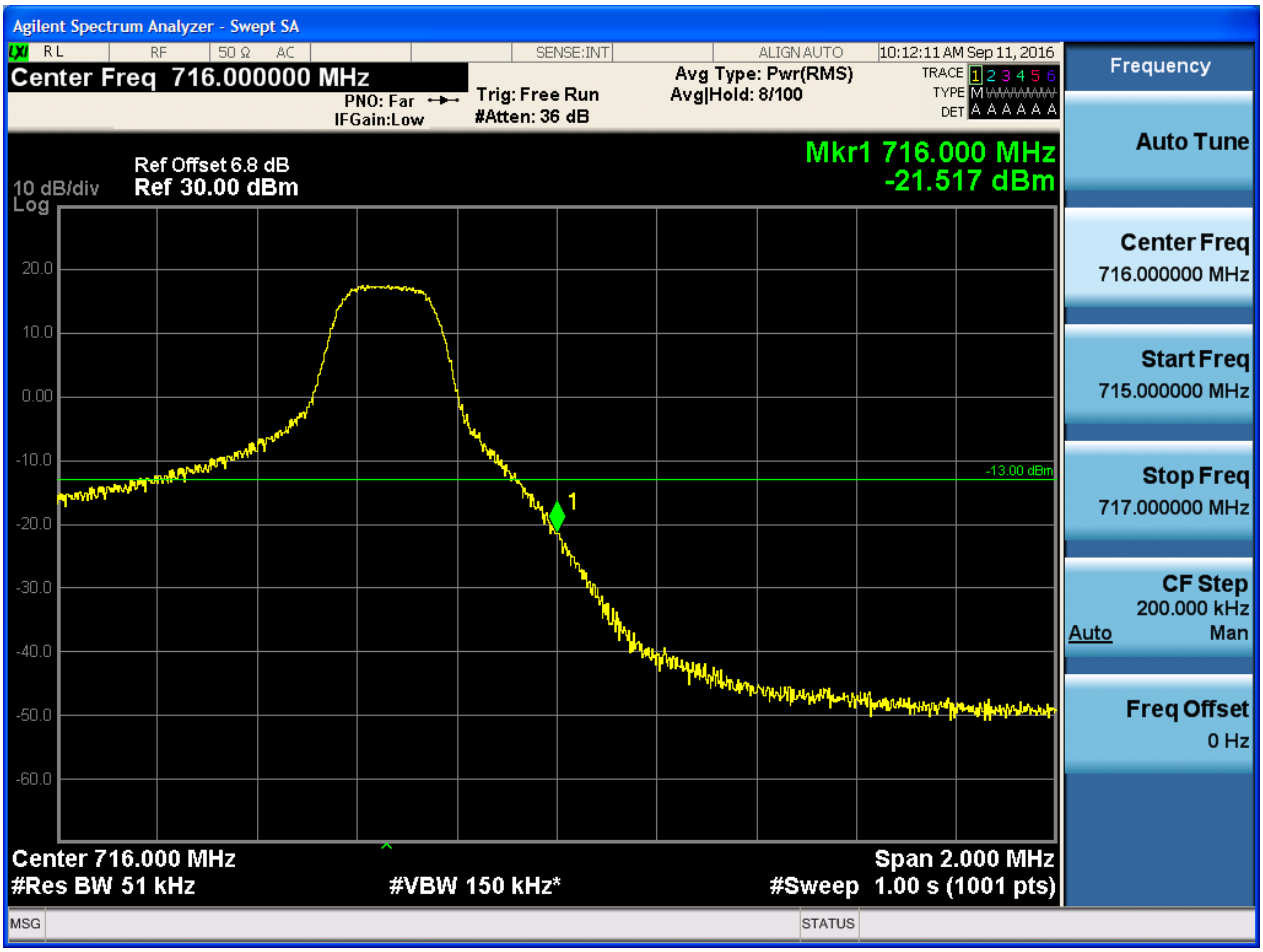
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



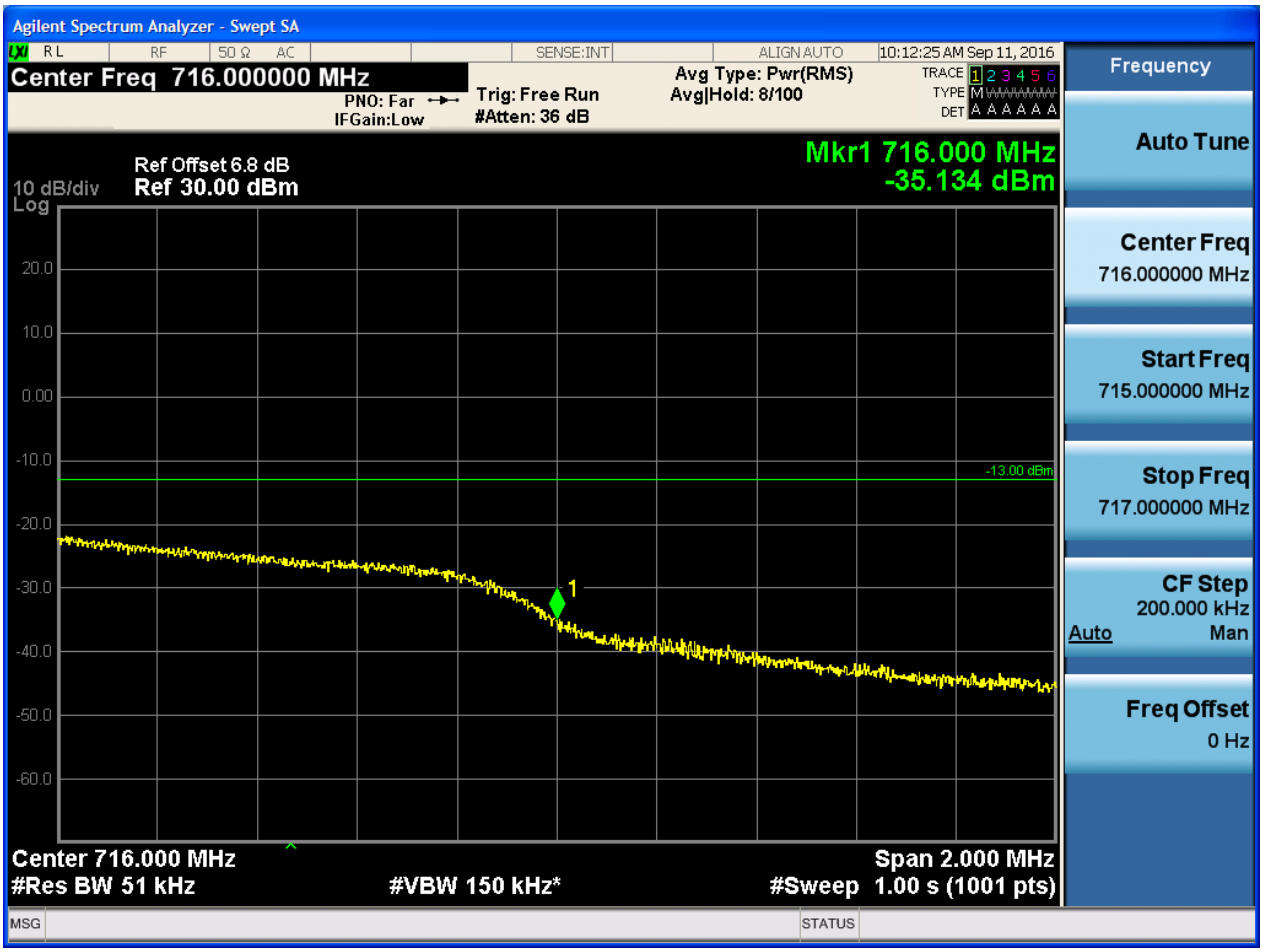
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.1.2.2 Test RB = RB1#24



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

5.1.1.2.1.2.3 Test RB = RB12#6



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

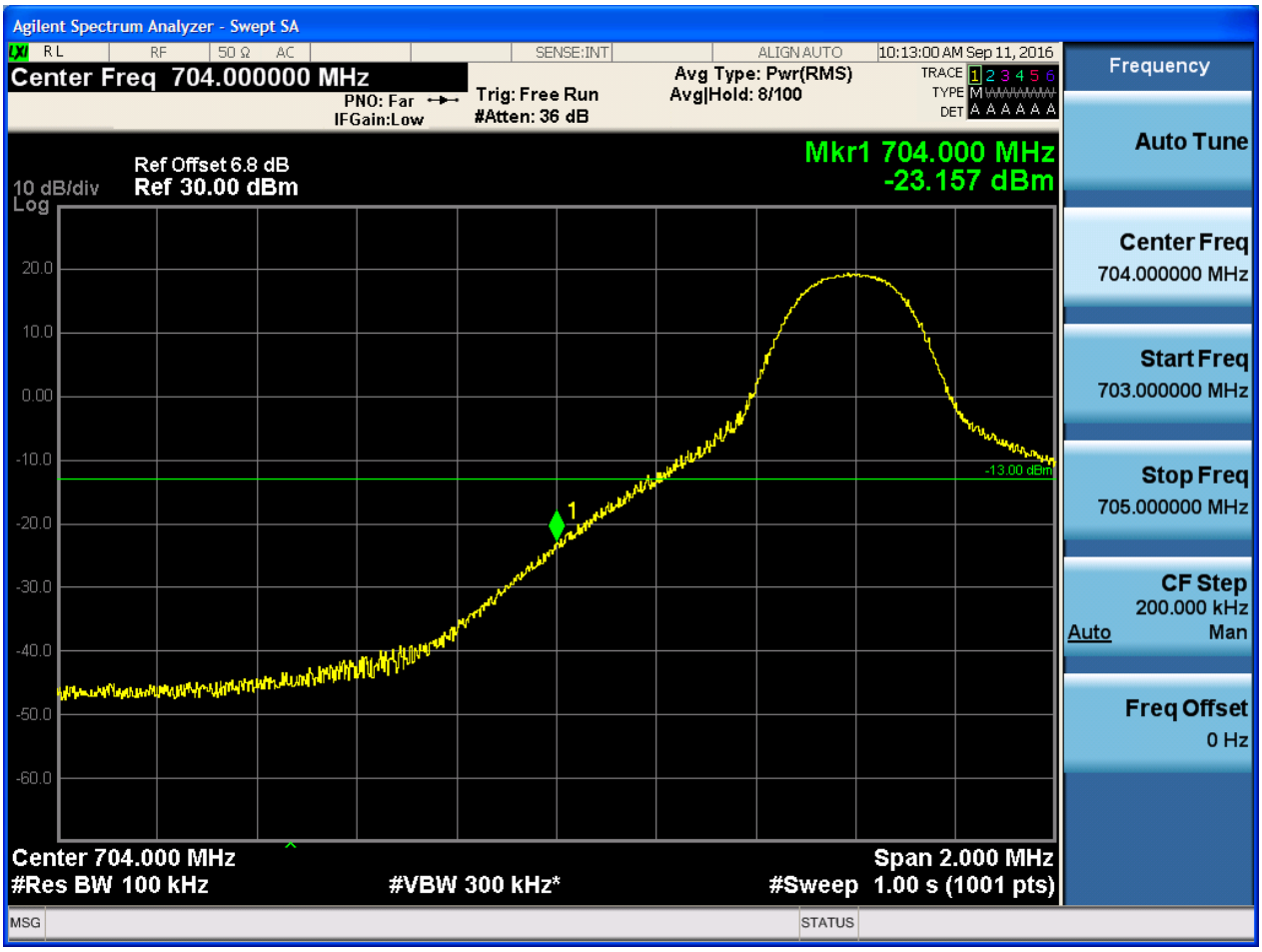
5.1.1.2.1.2.4 Test RB = RB25#0

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

5.1.1.2.2 Test Bandwidth = 10

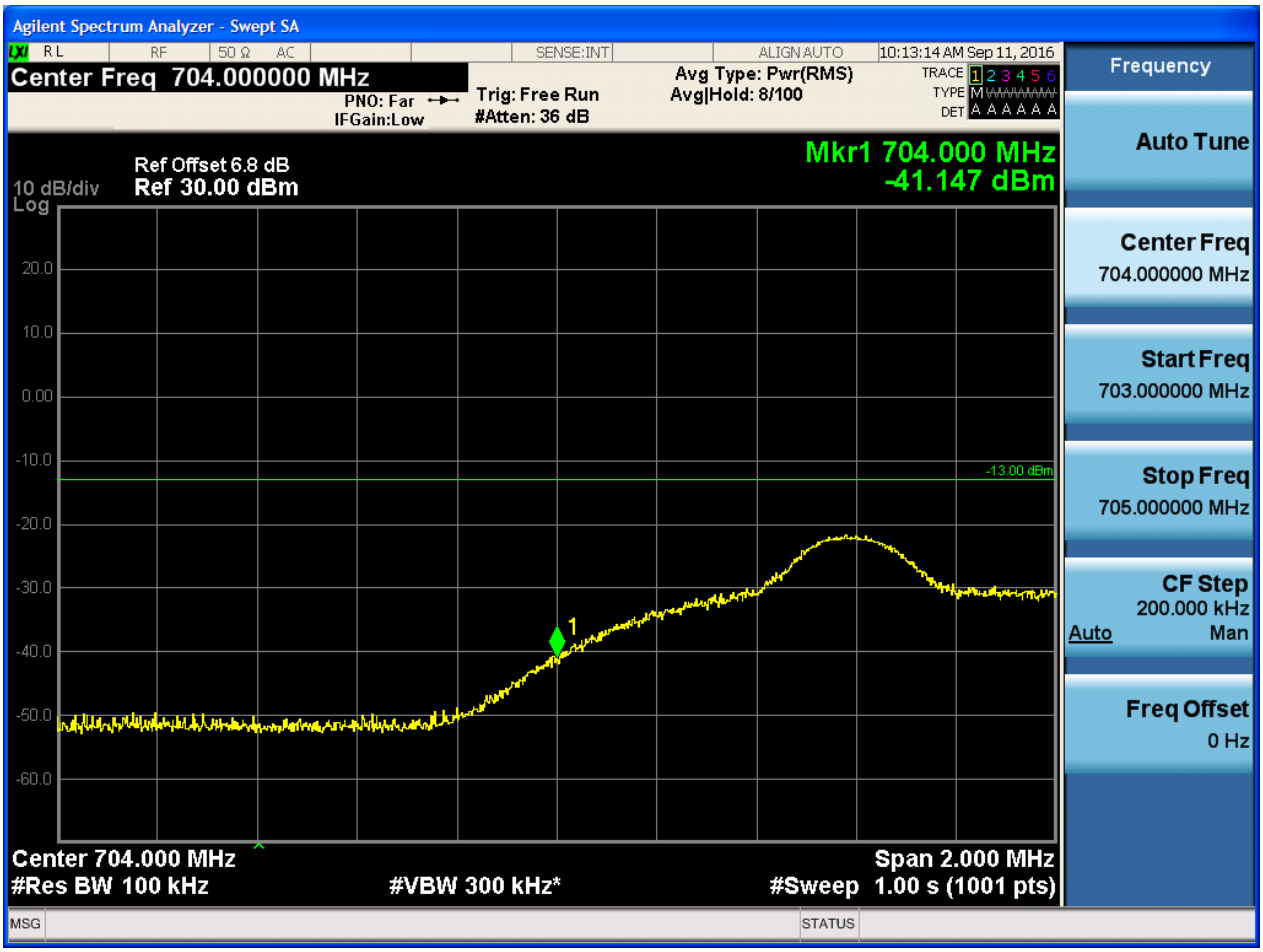
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



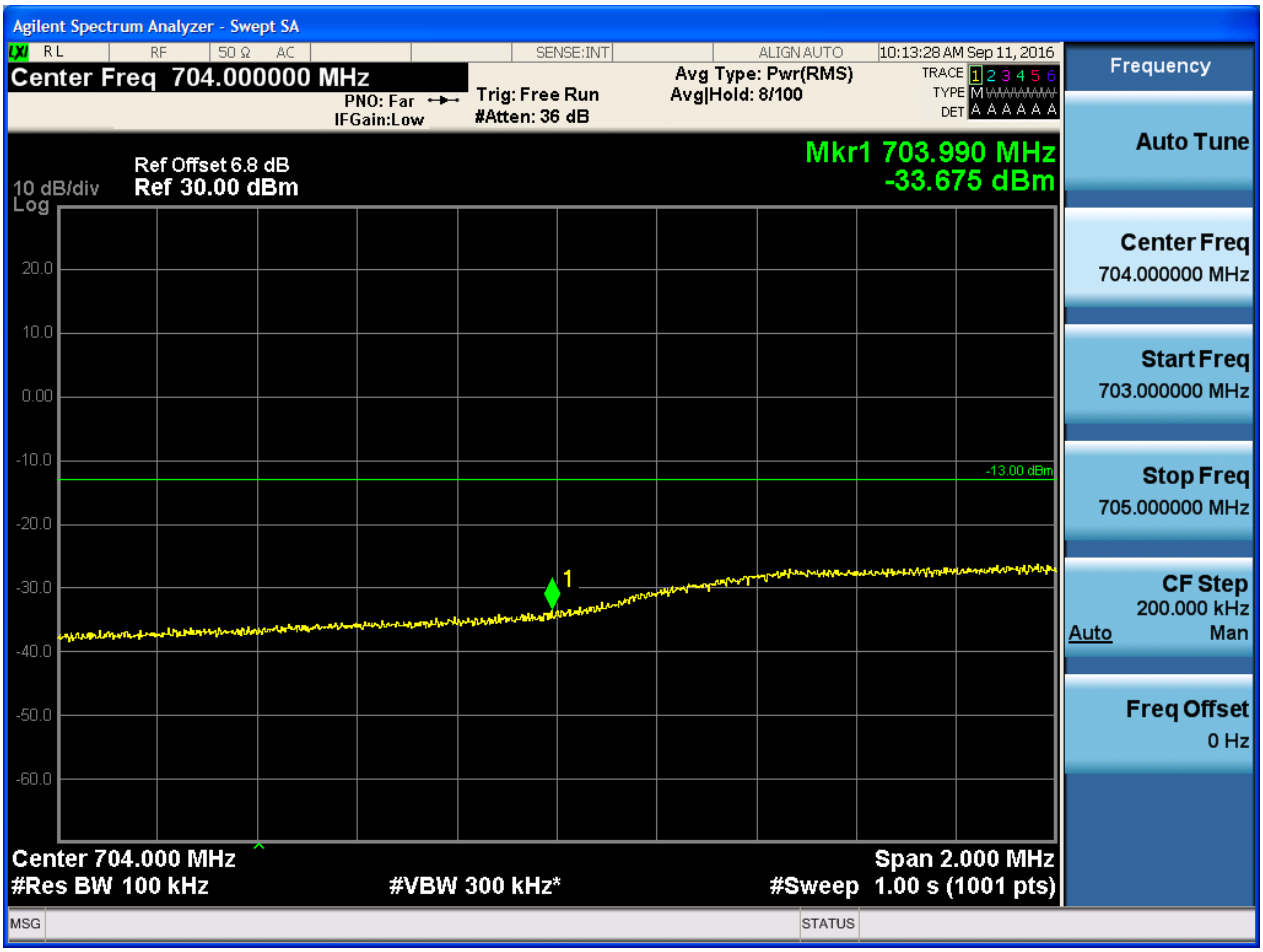
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.2.1.2 Test RB = RB1#49



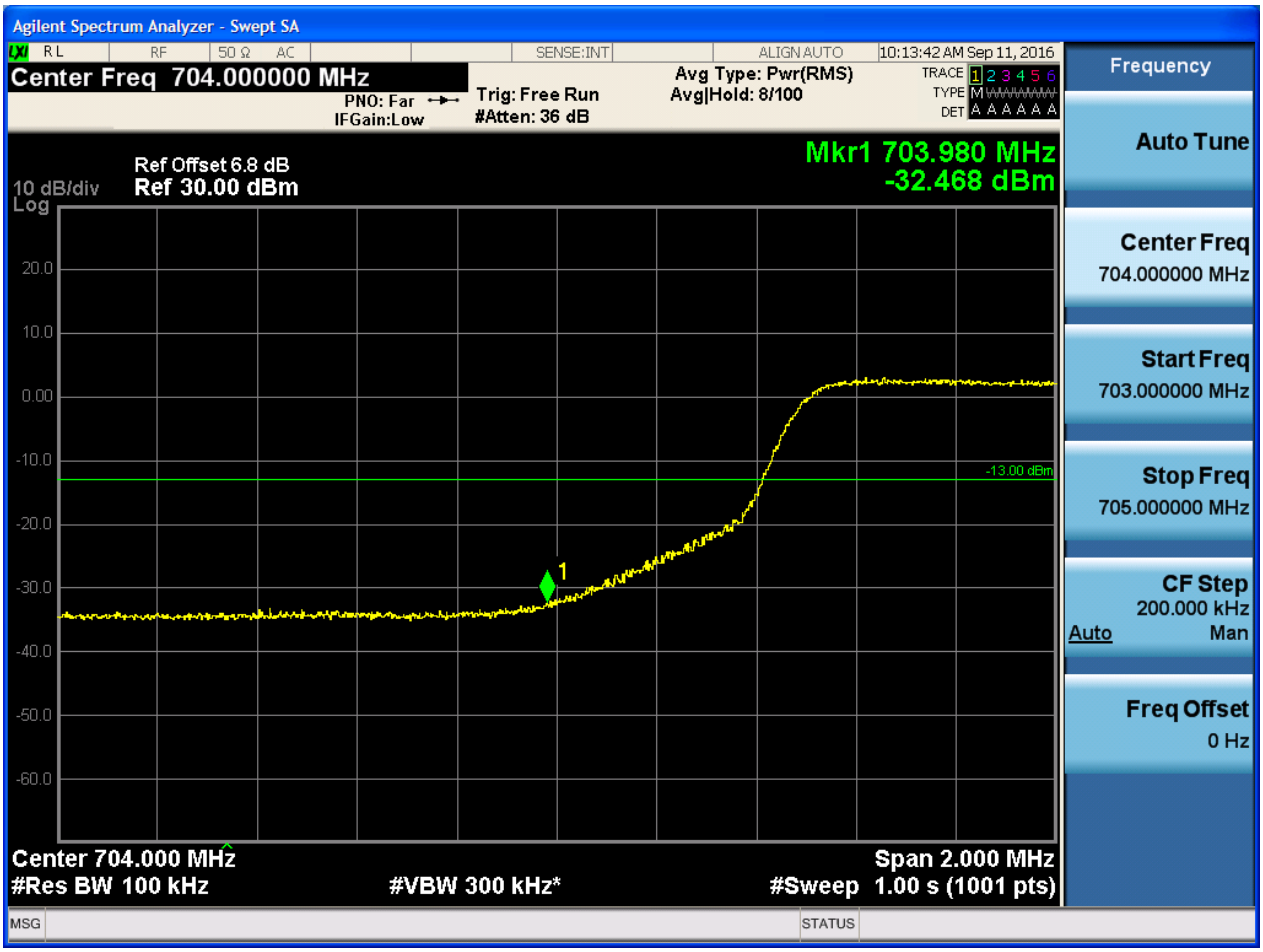
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.2.1.3 Test RB = RB25#13



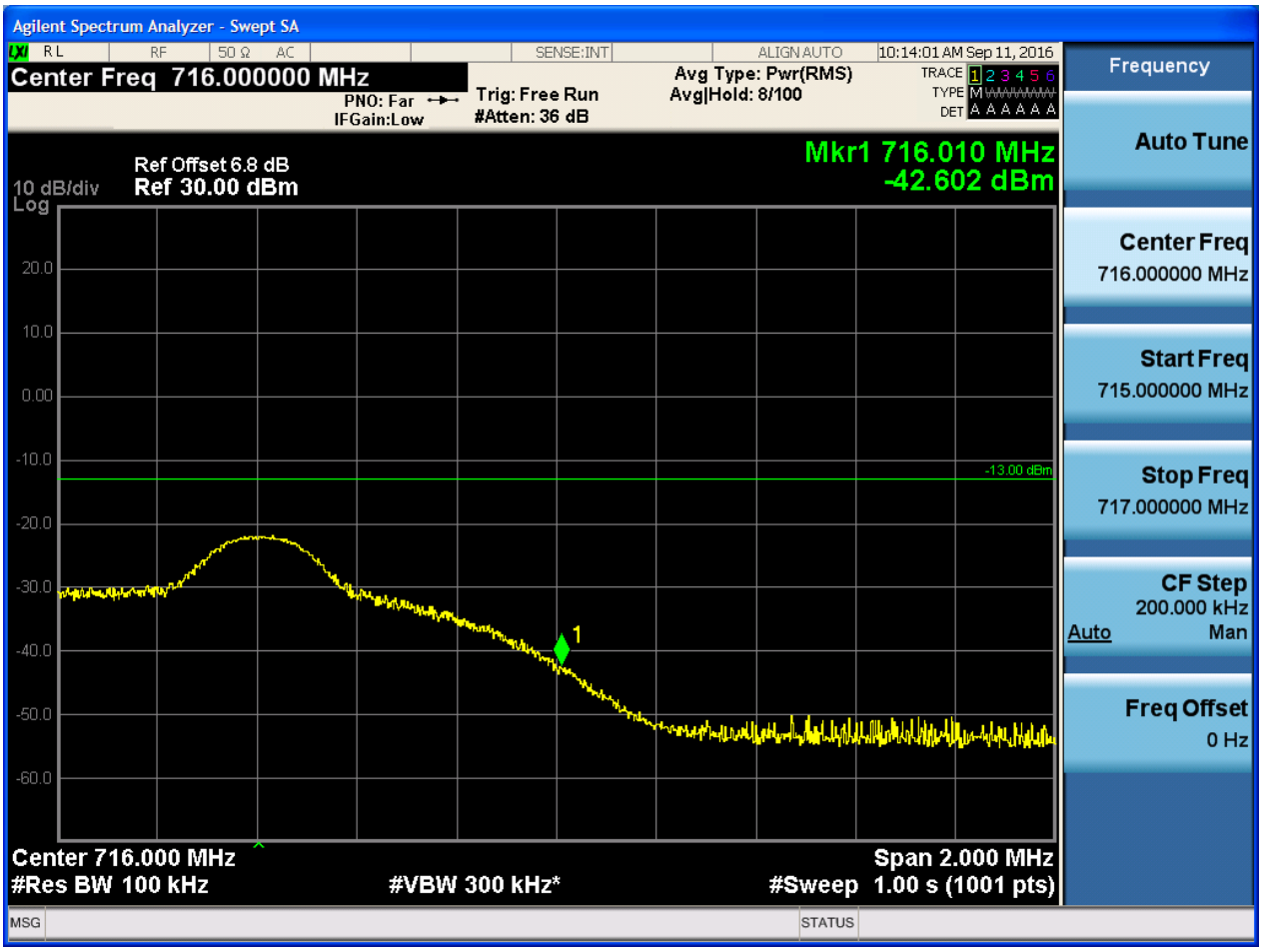
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.2.1.4 Test RB = RB50#0



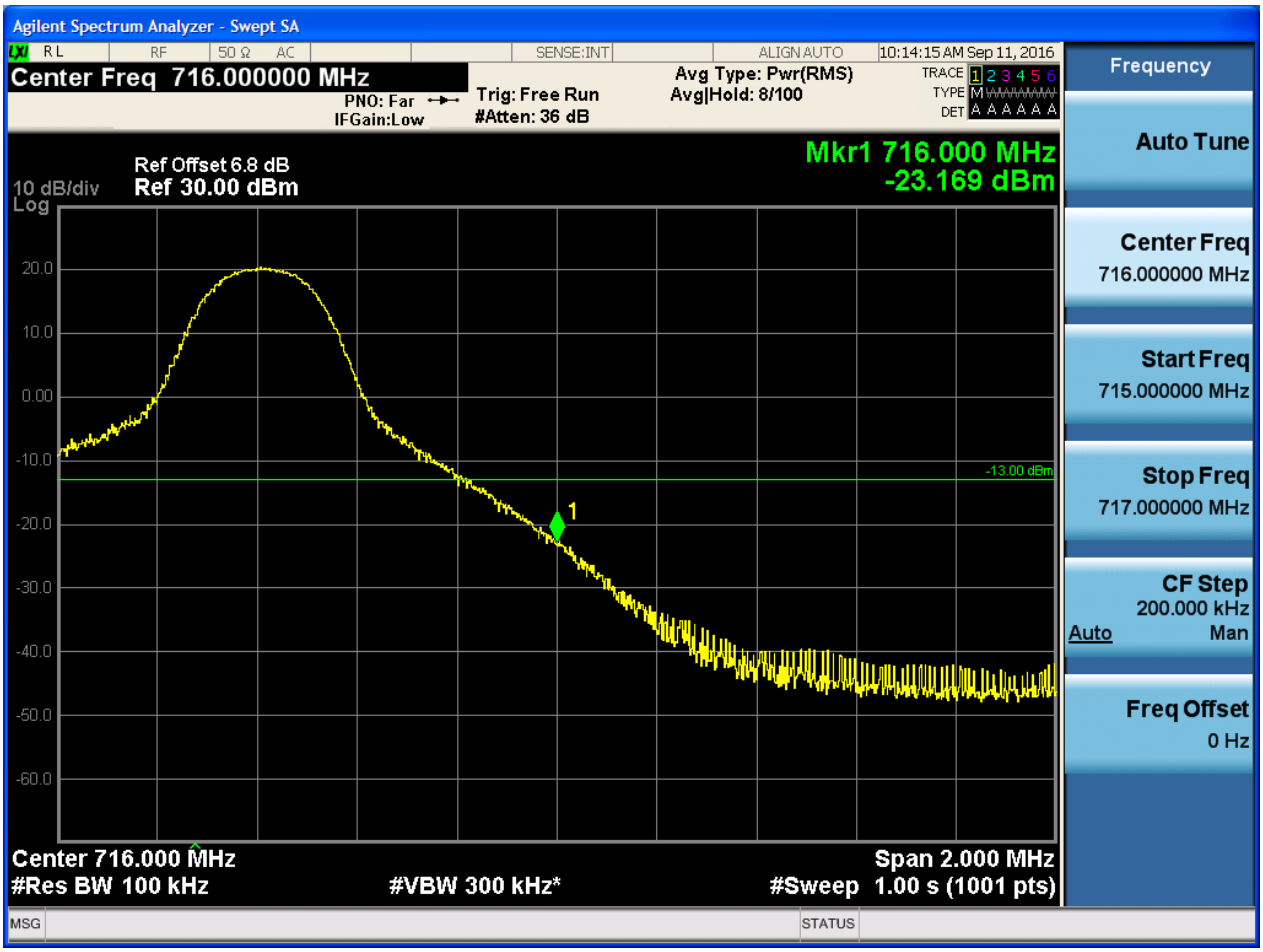
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



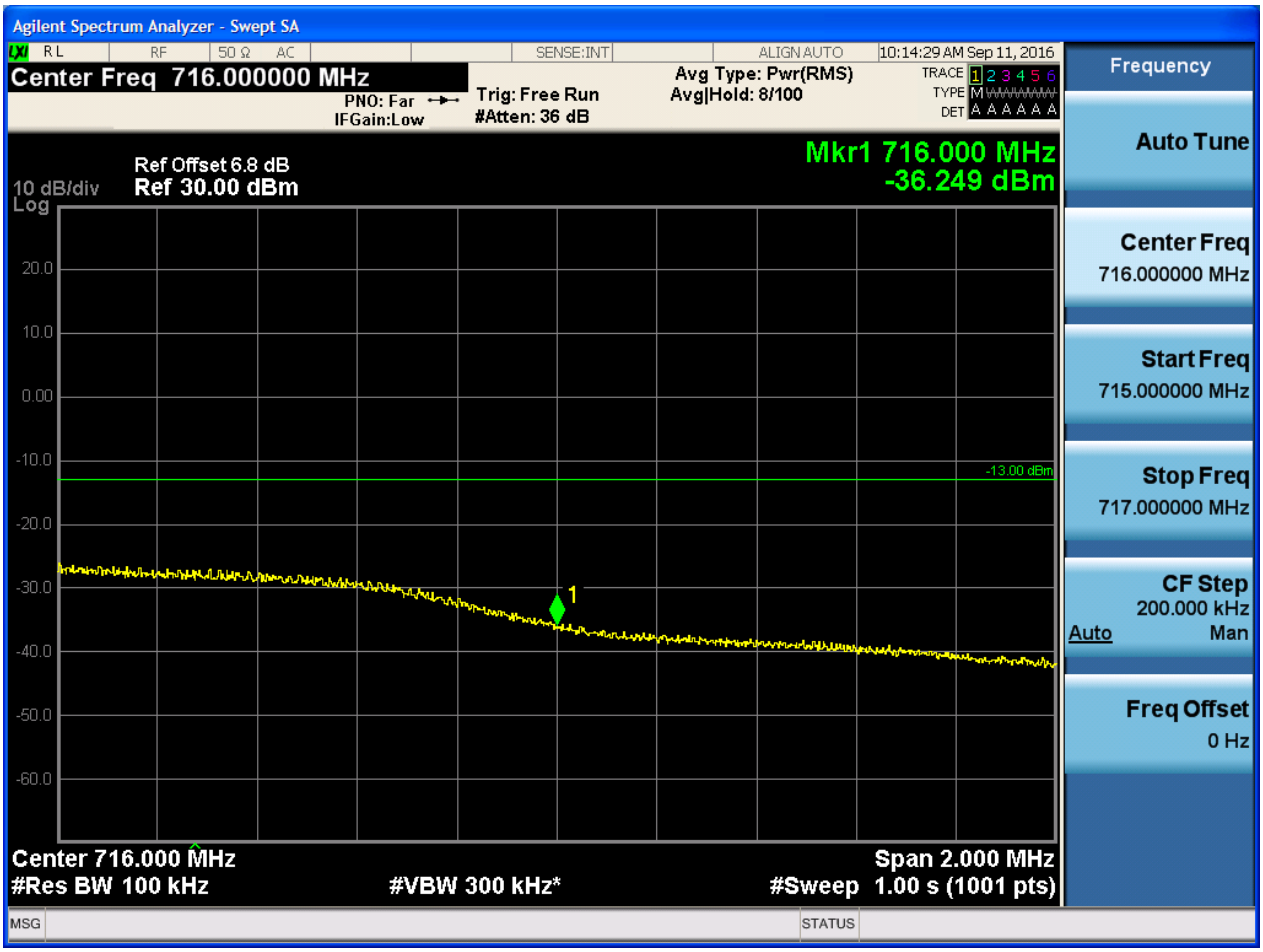
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

5.1.1.2.2.2.2 Test RB = RB1#49



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

5.1.1.2.2.2.3 Test RB = RB25#13



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

5.1.1.2.2.2.4 Test RB = RB50#0

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

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 = BAND17

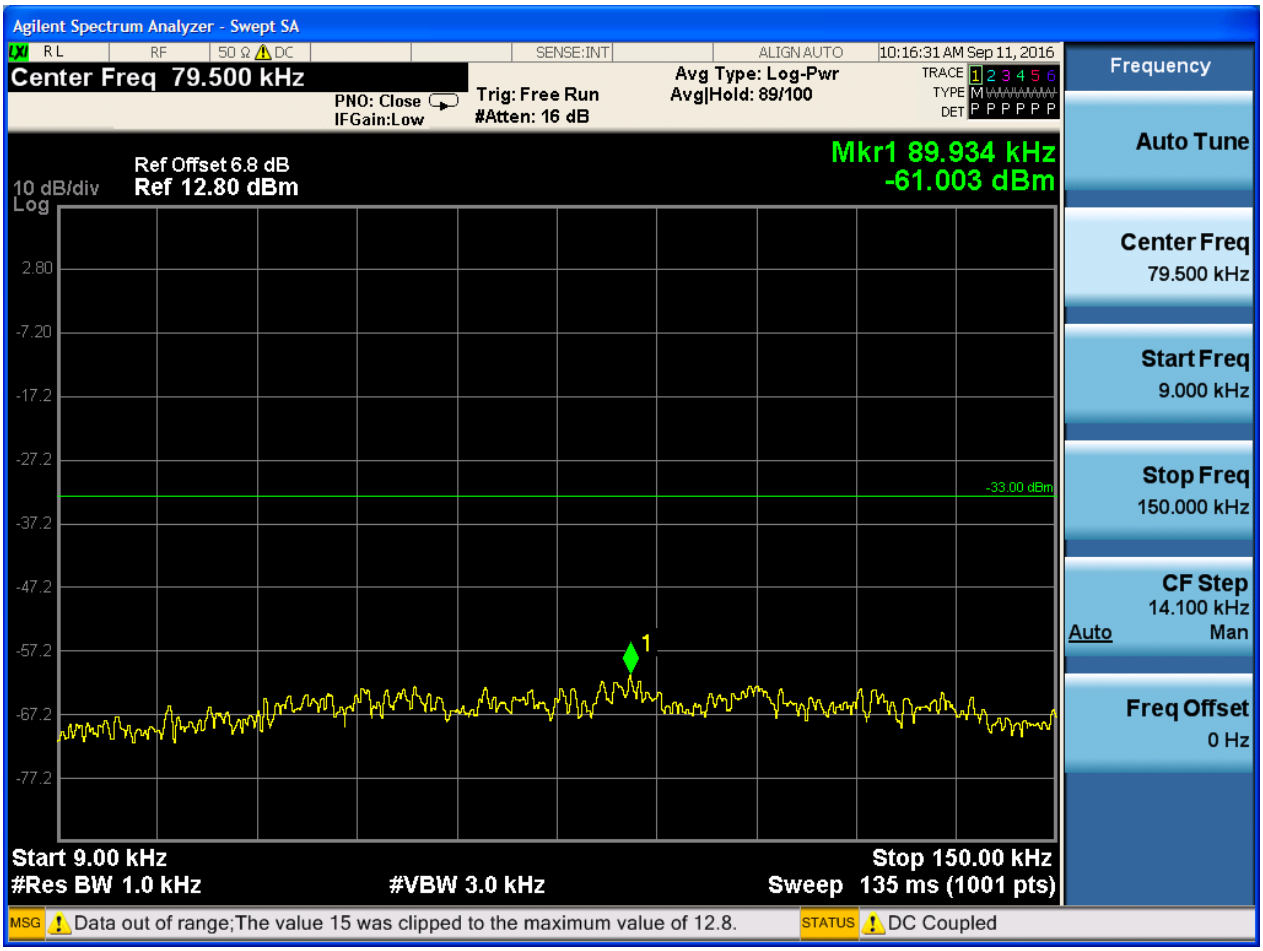
6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

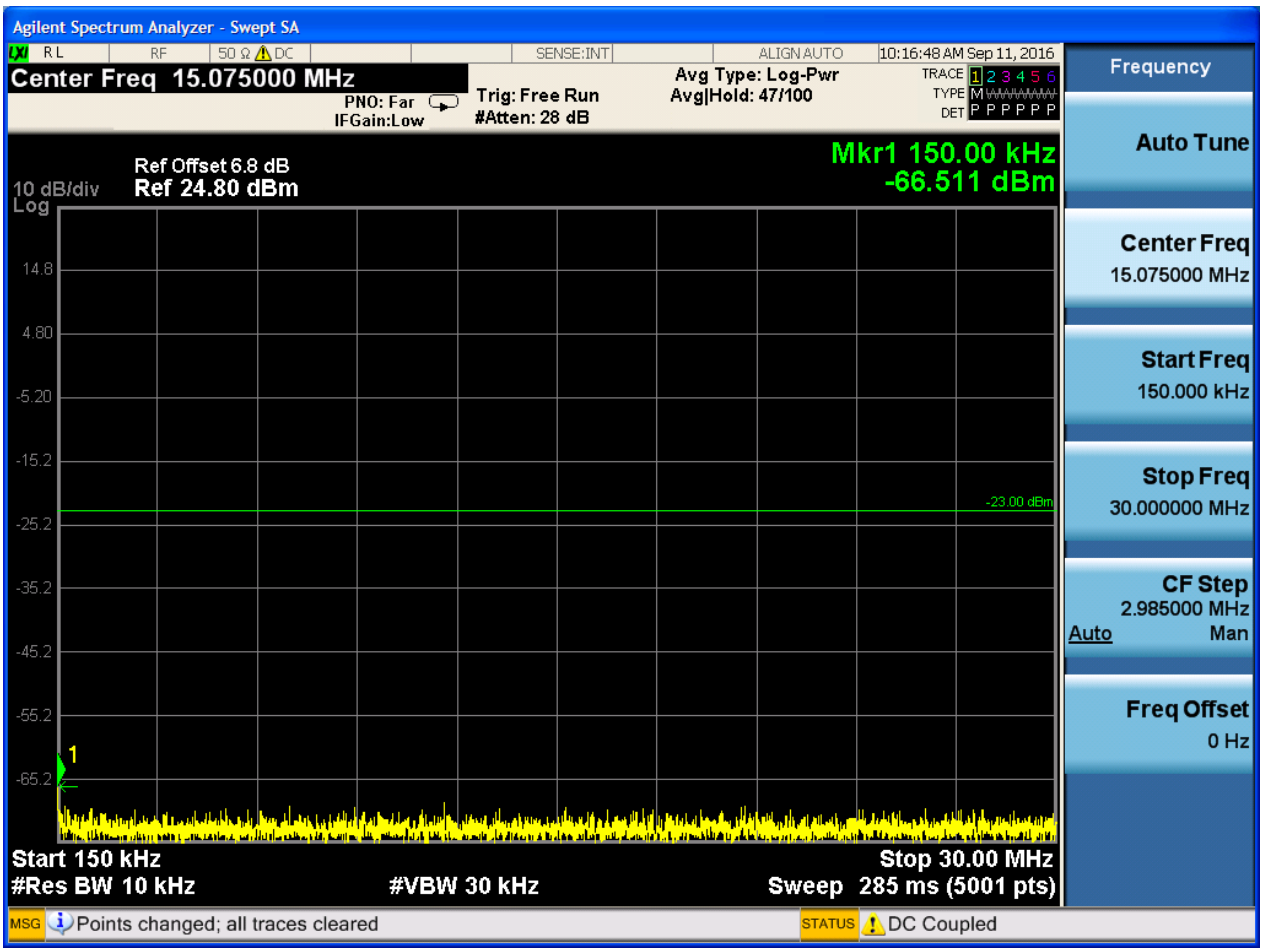
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

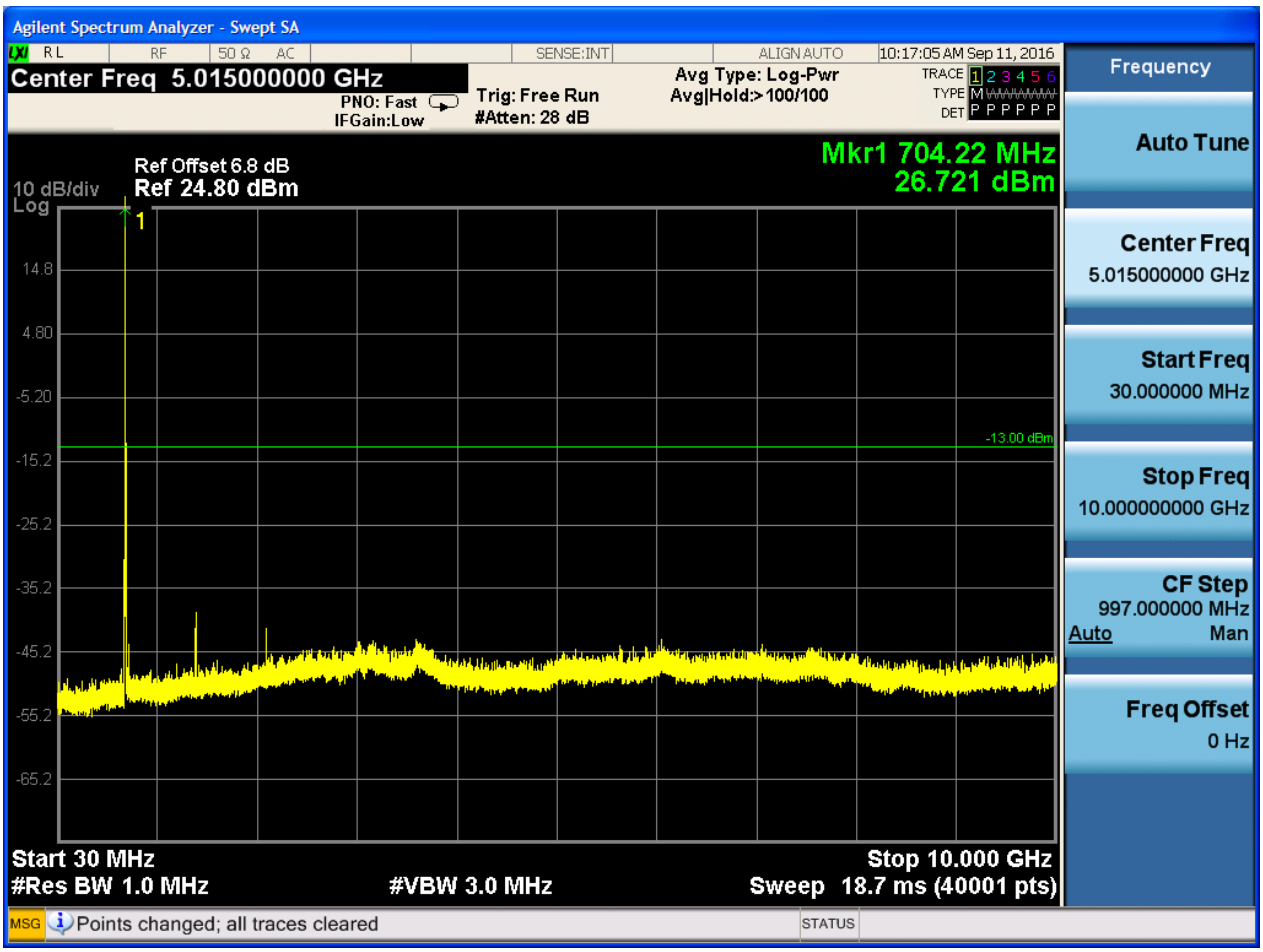
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



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



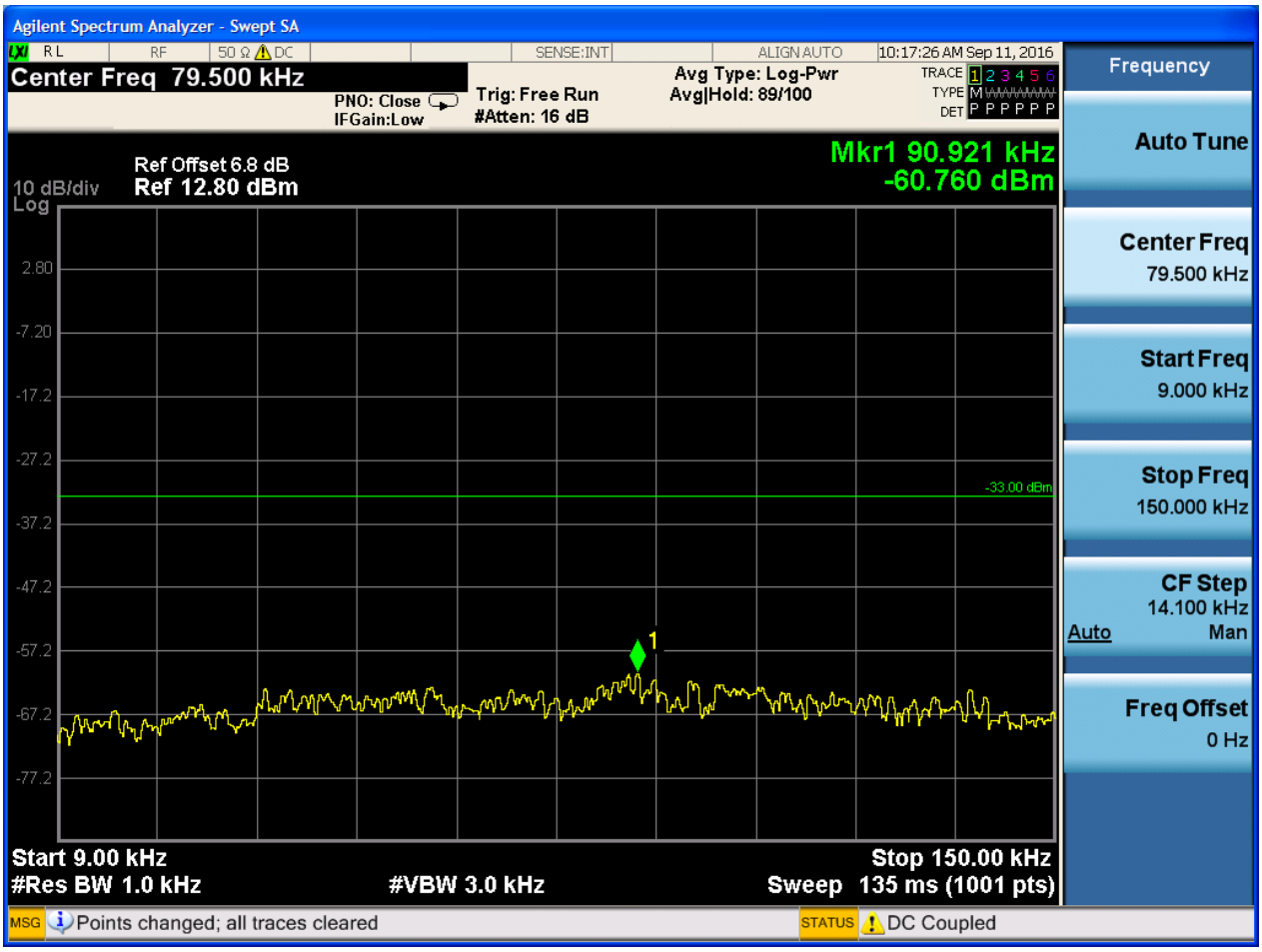
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



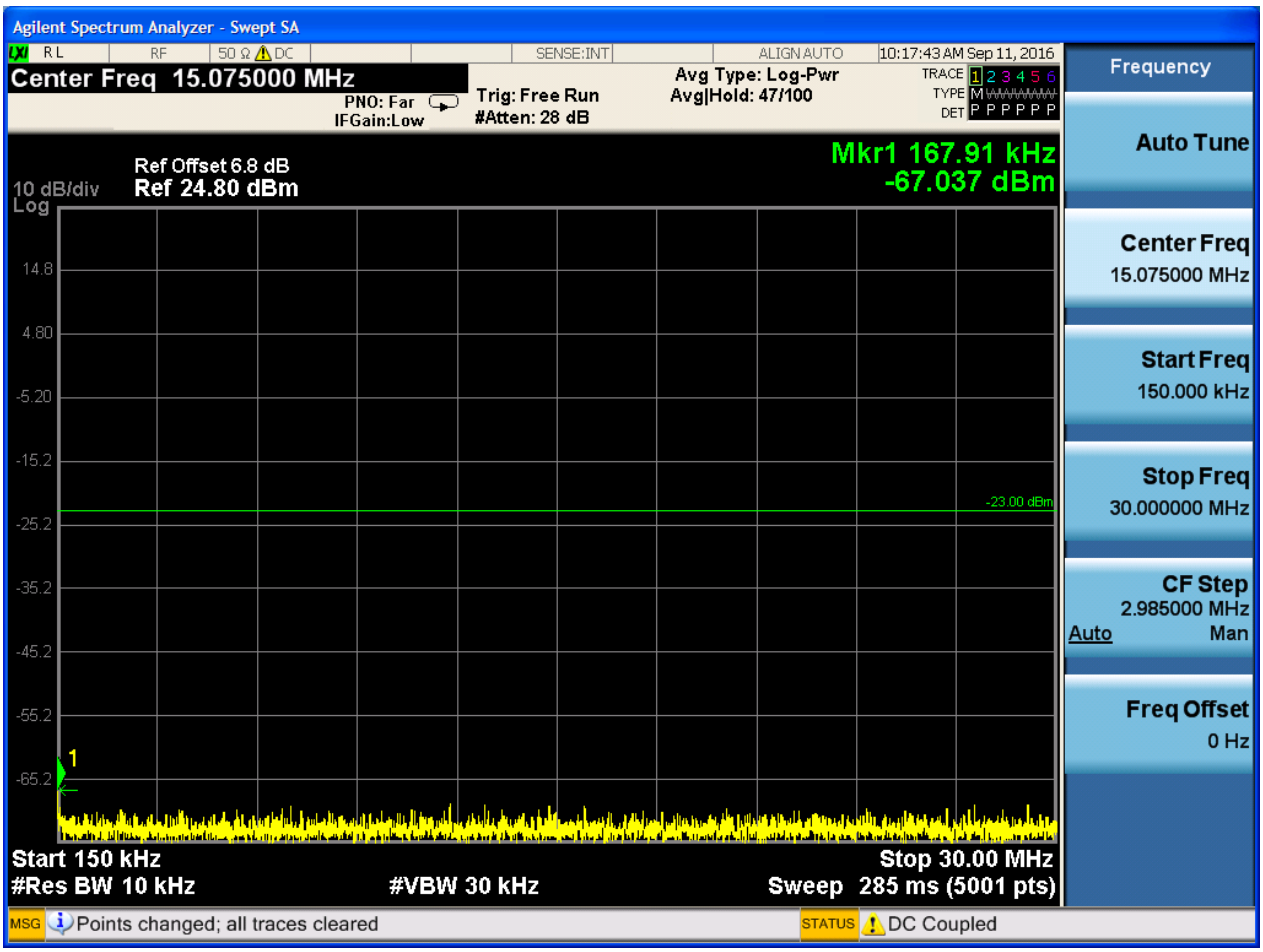
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.1.1.2 Test Channel = MCH

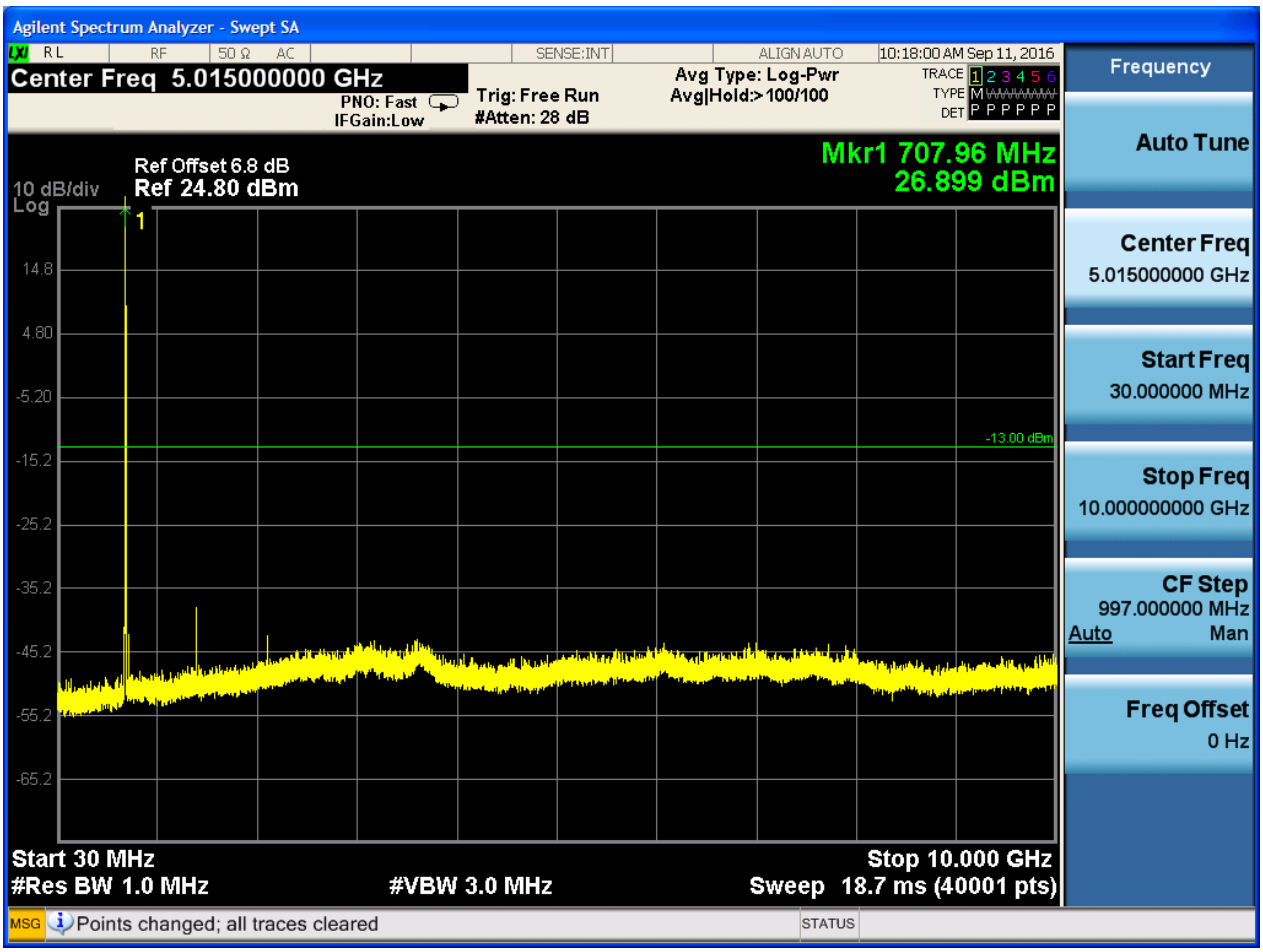
6.1.1.1.1.2.1 Test RB = RB1#0



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



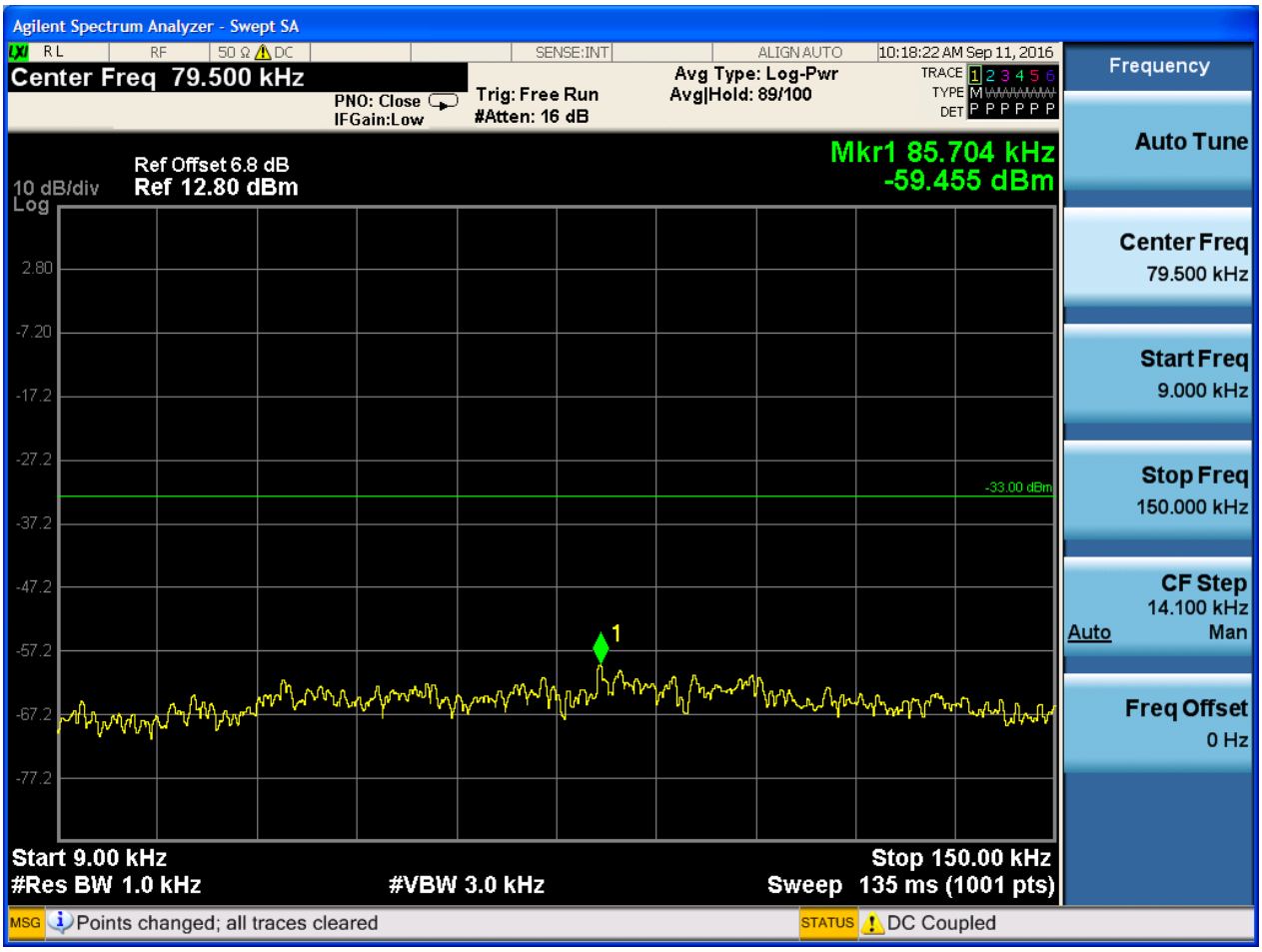
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



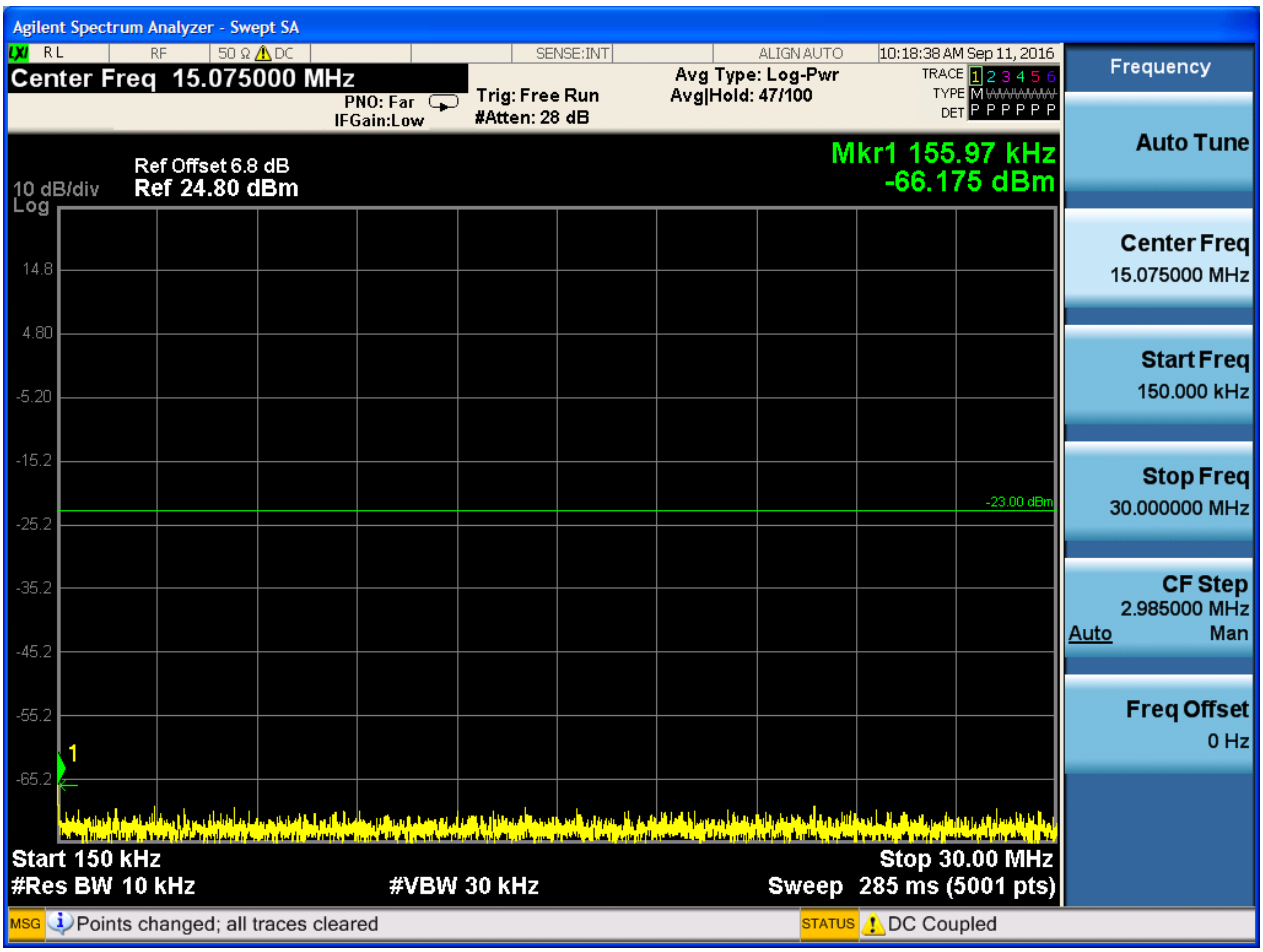
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.1.1.3 Test Channel = HCH

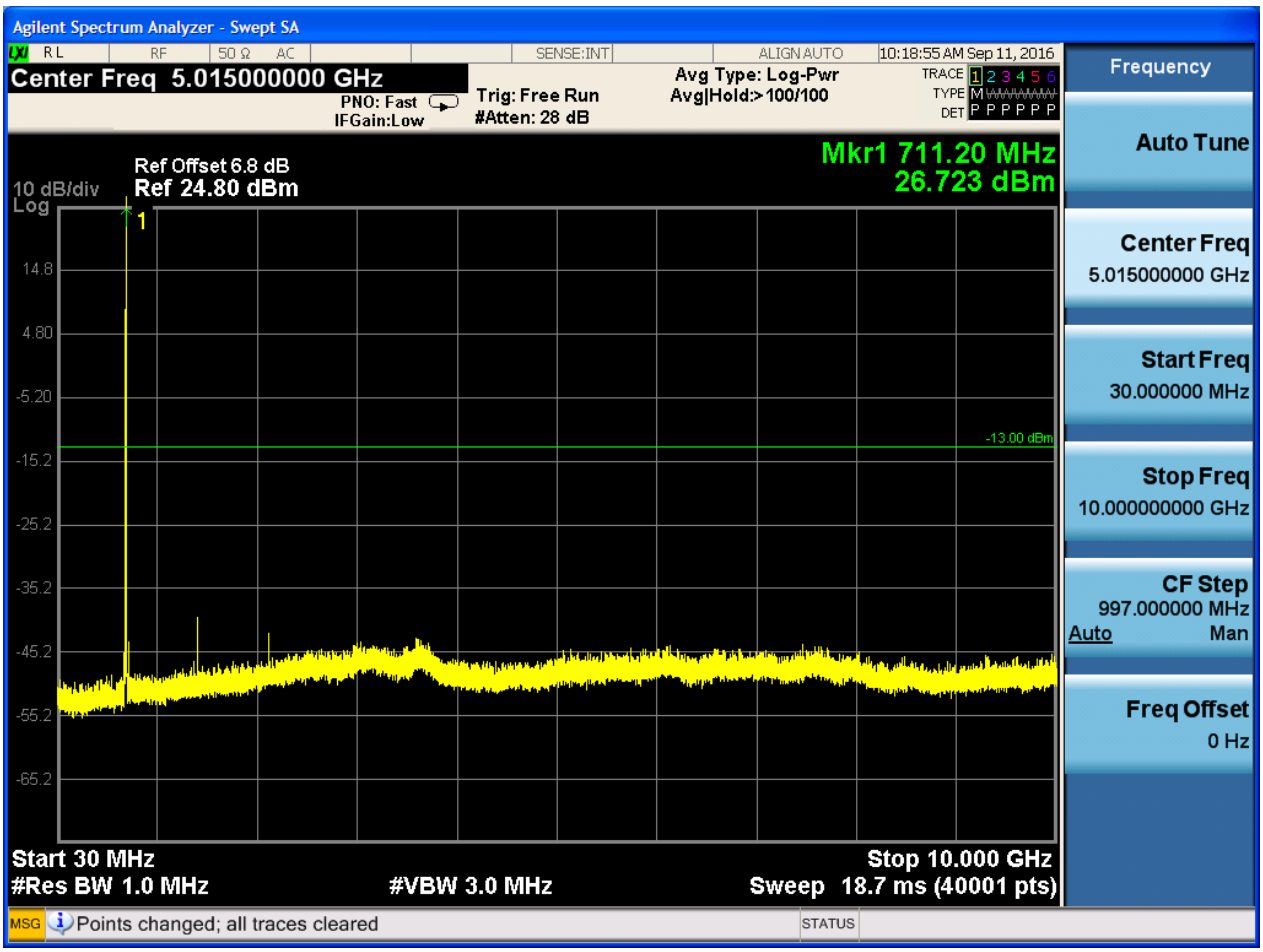
6.1.1.1.1.3.1 Test RB = RB1#0



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



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

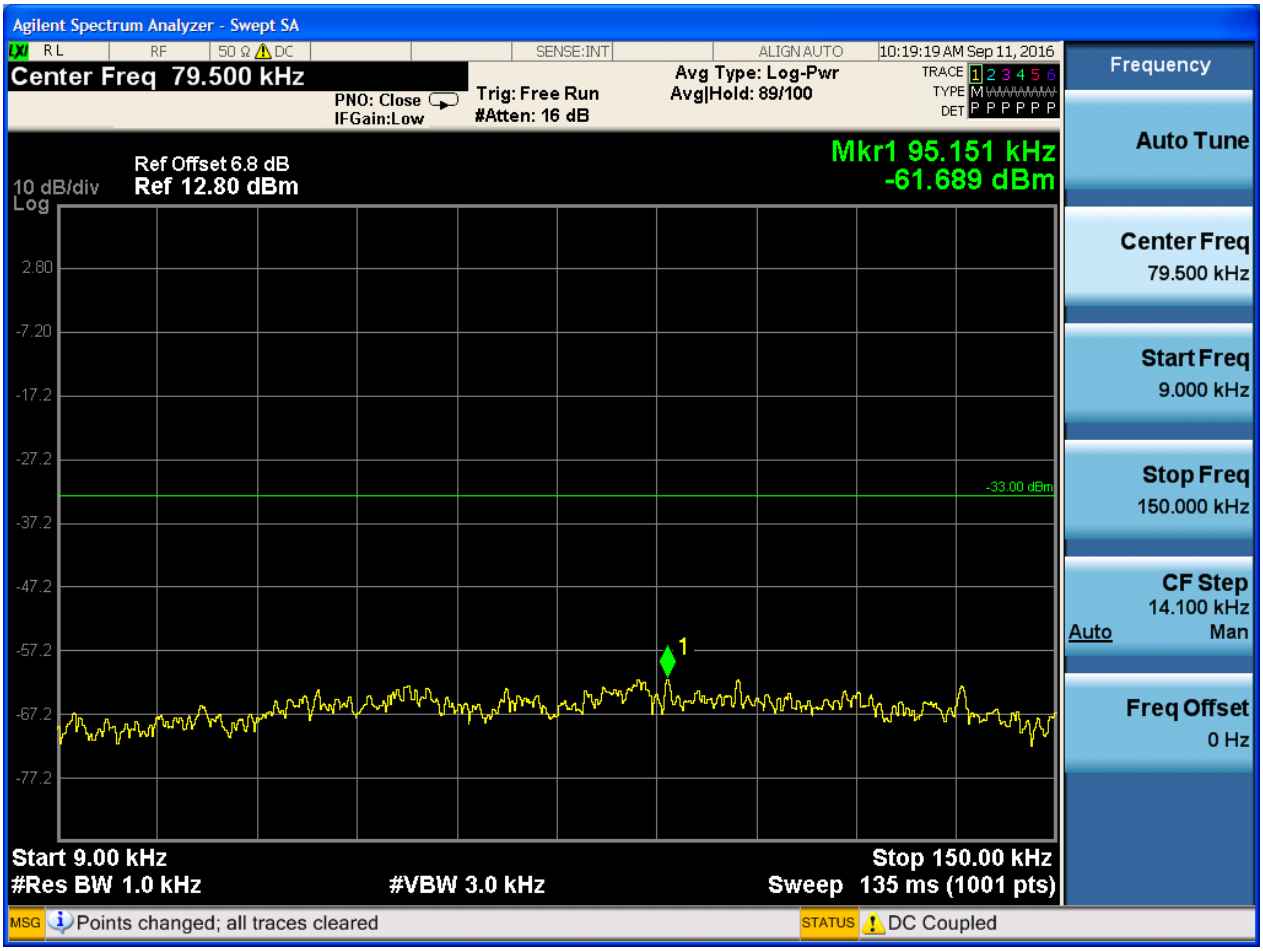


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

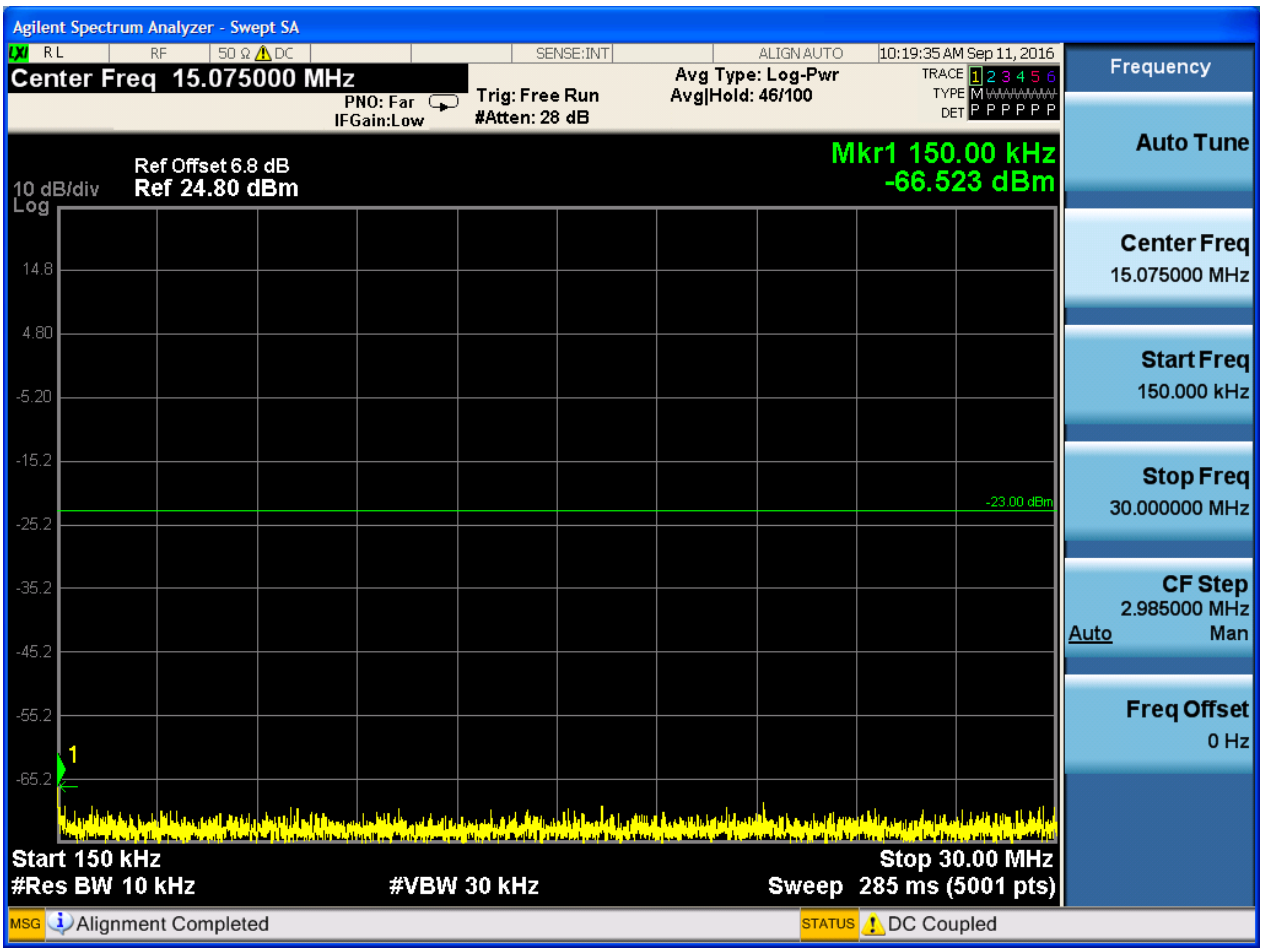
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

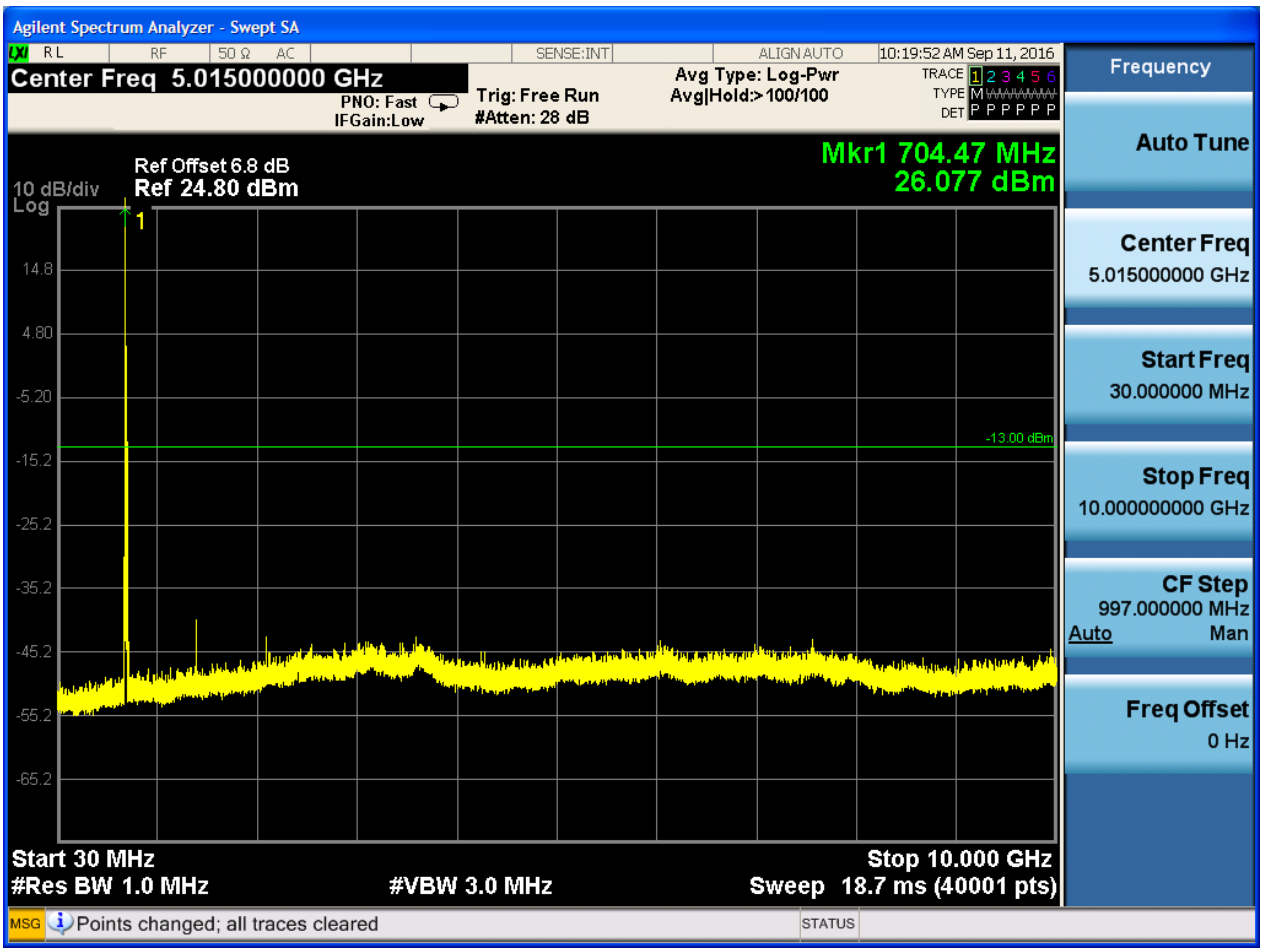
6.1.1.1.2.1.1 Test RB = RB1#0



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



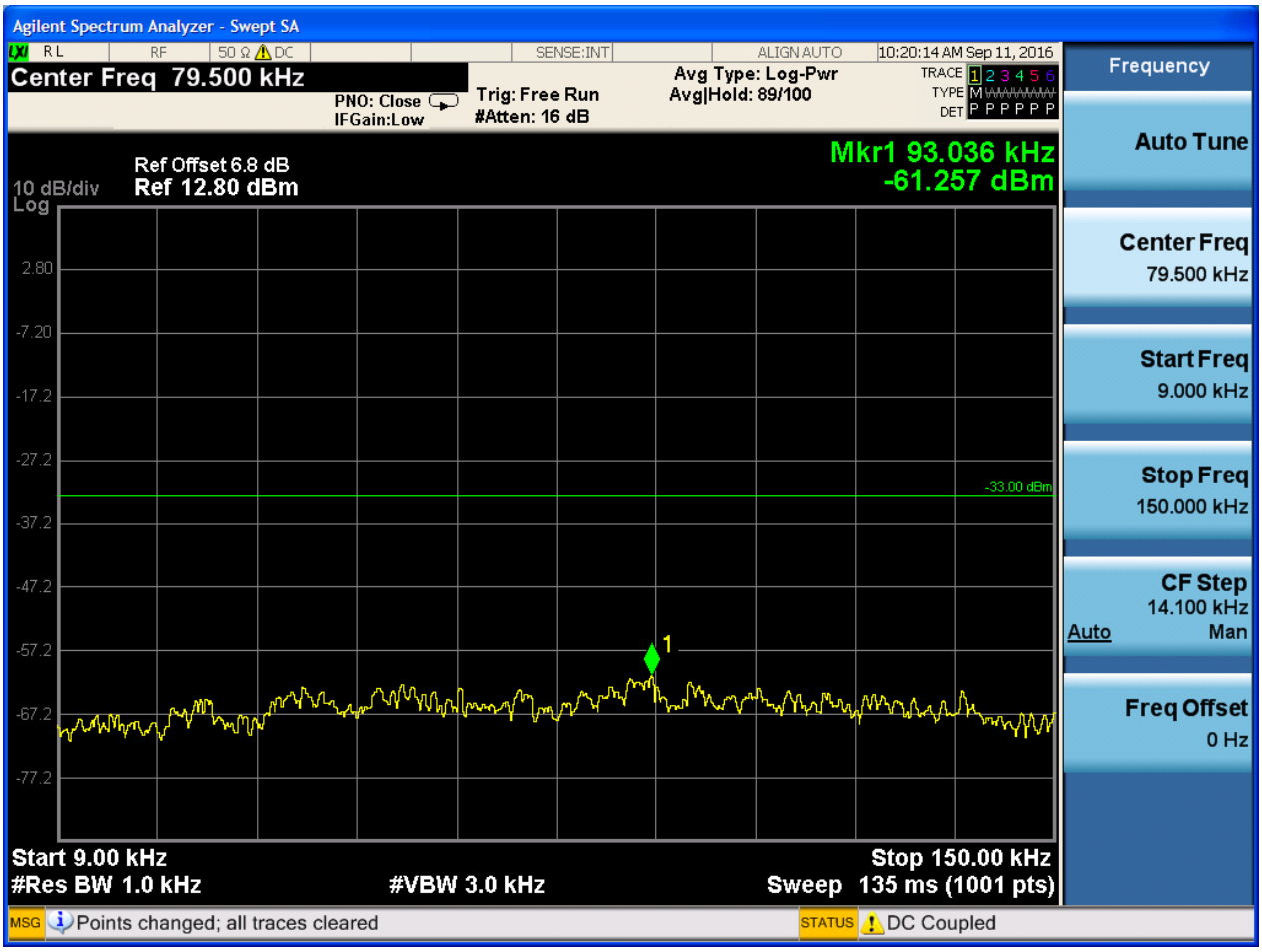
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



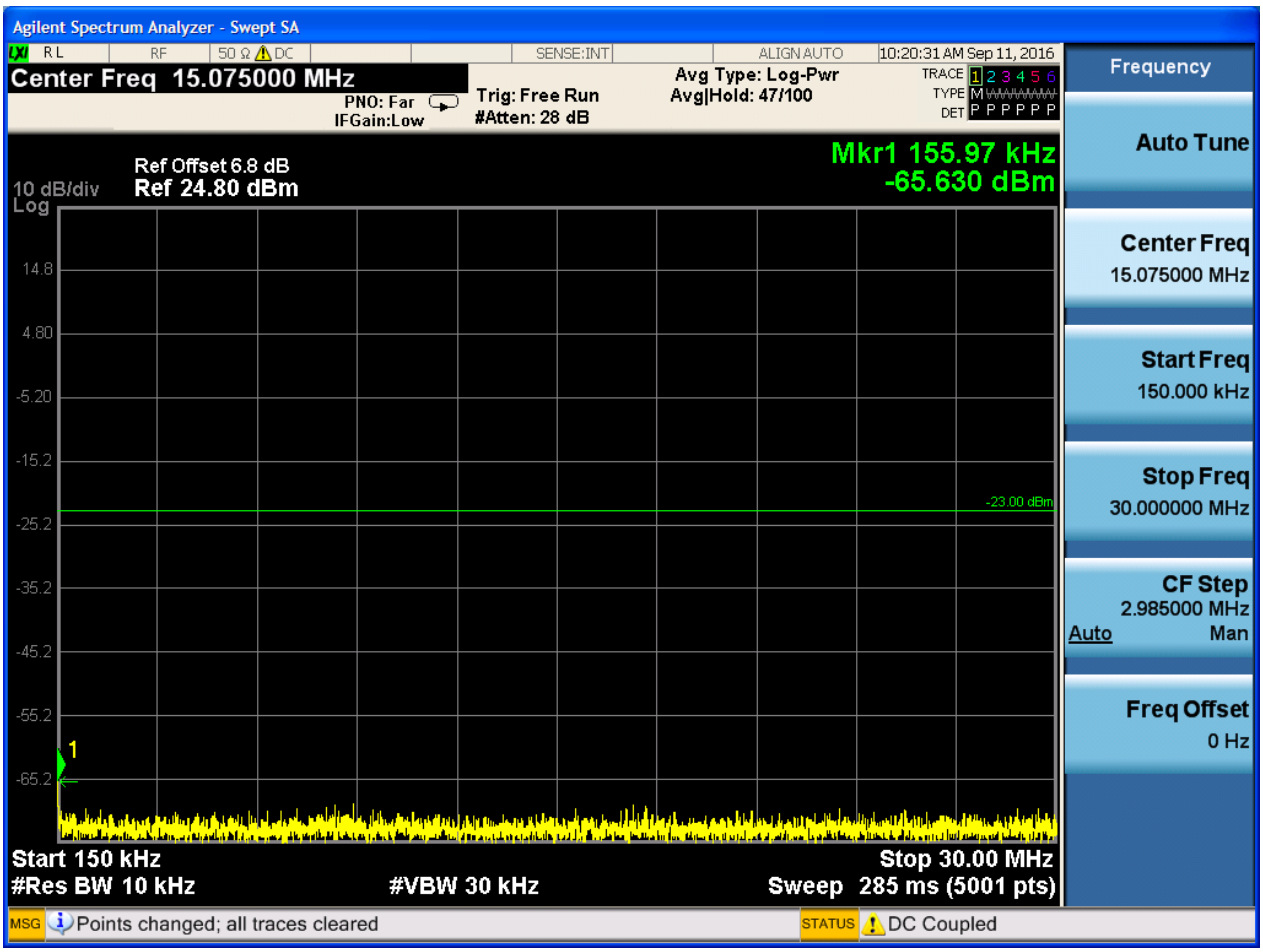
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.1.2.2 Test Channel = MCH

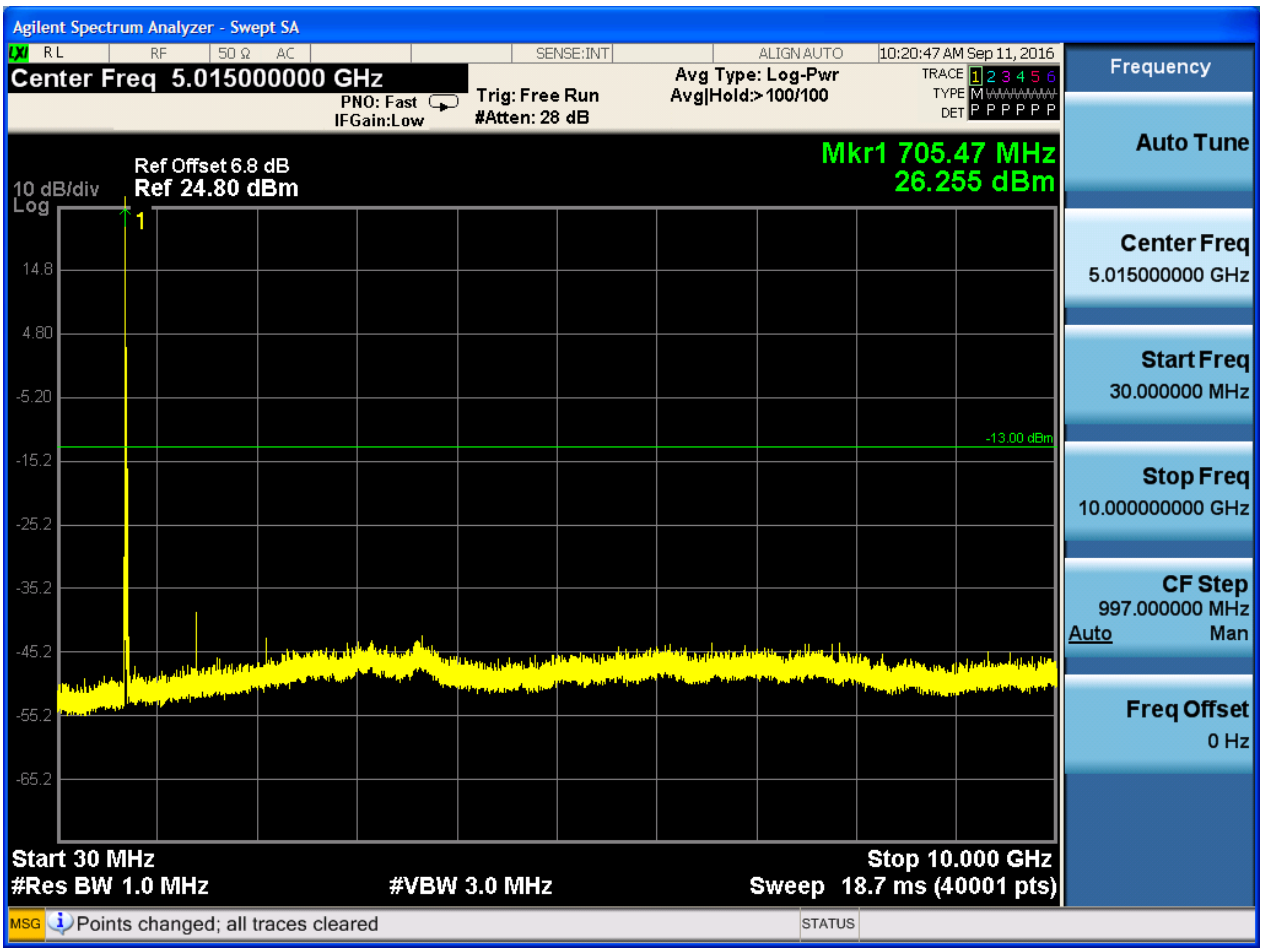
6.1.1.1.2.2.1 Test RB = RB1#0



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



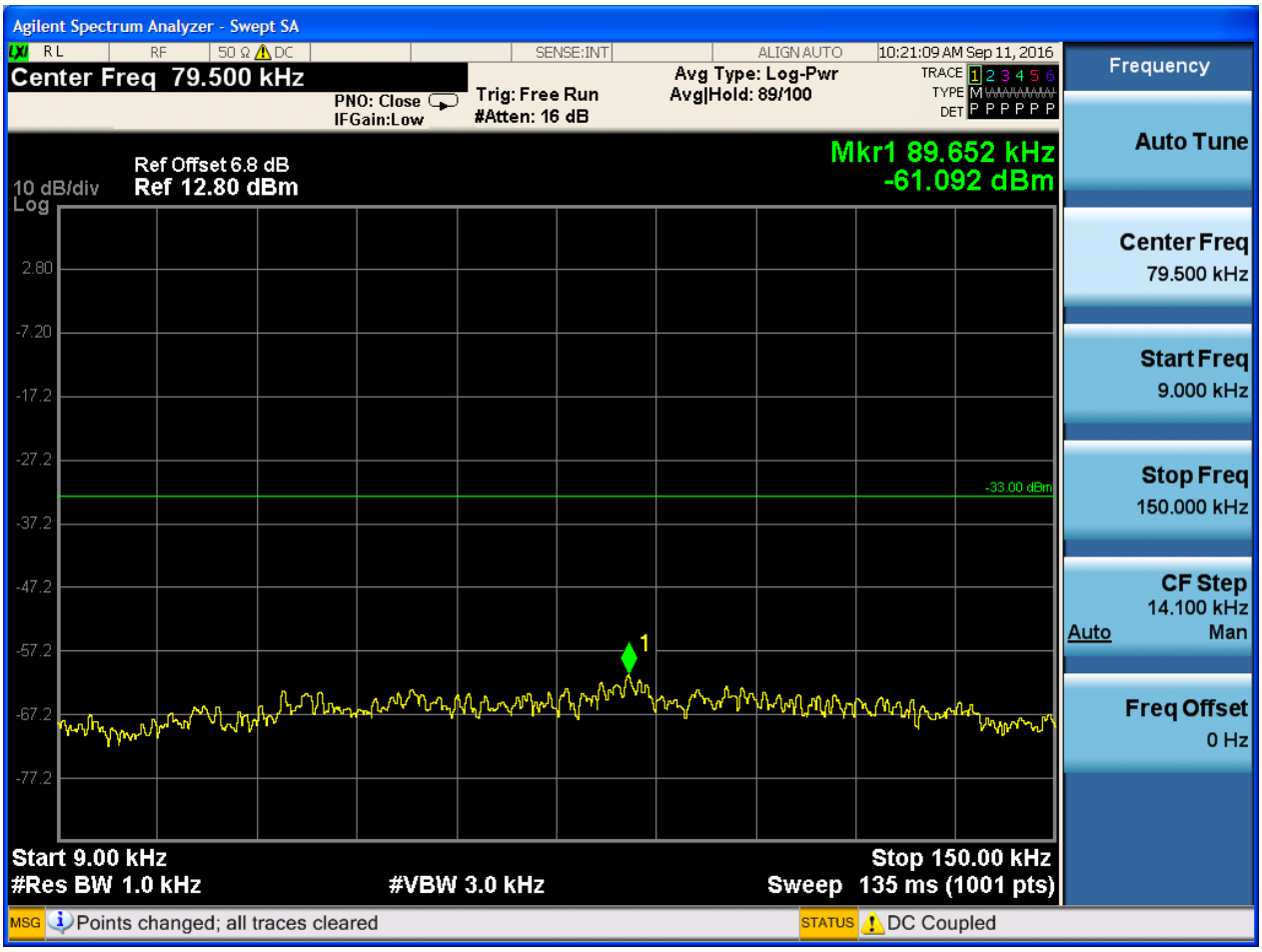
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



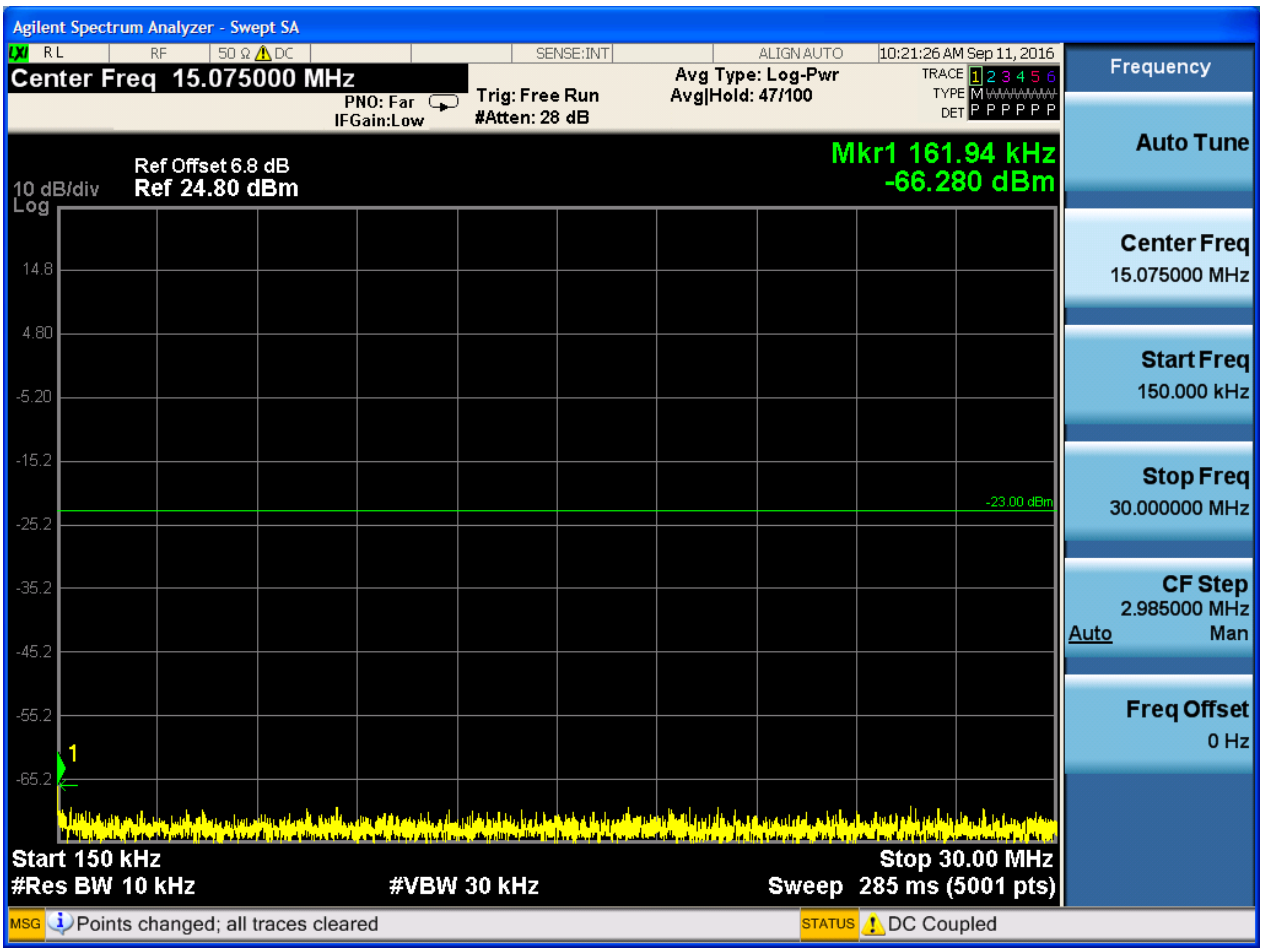
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.1.2.3 Test Channel = HCH

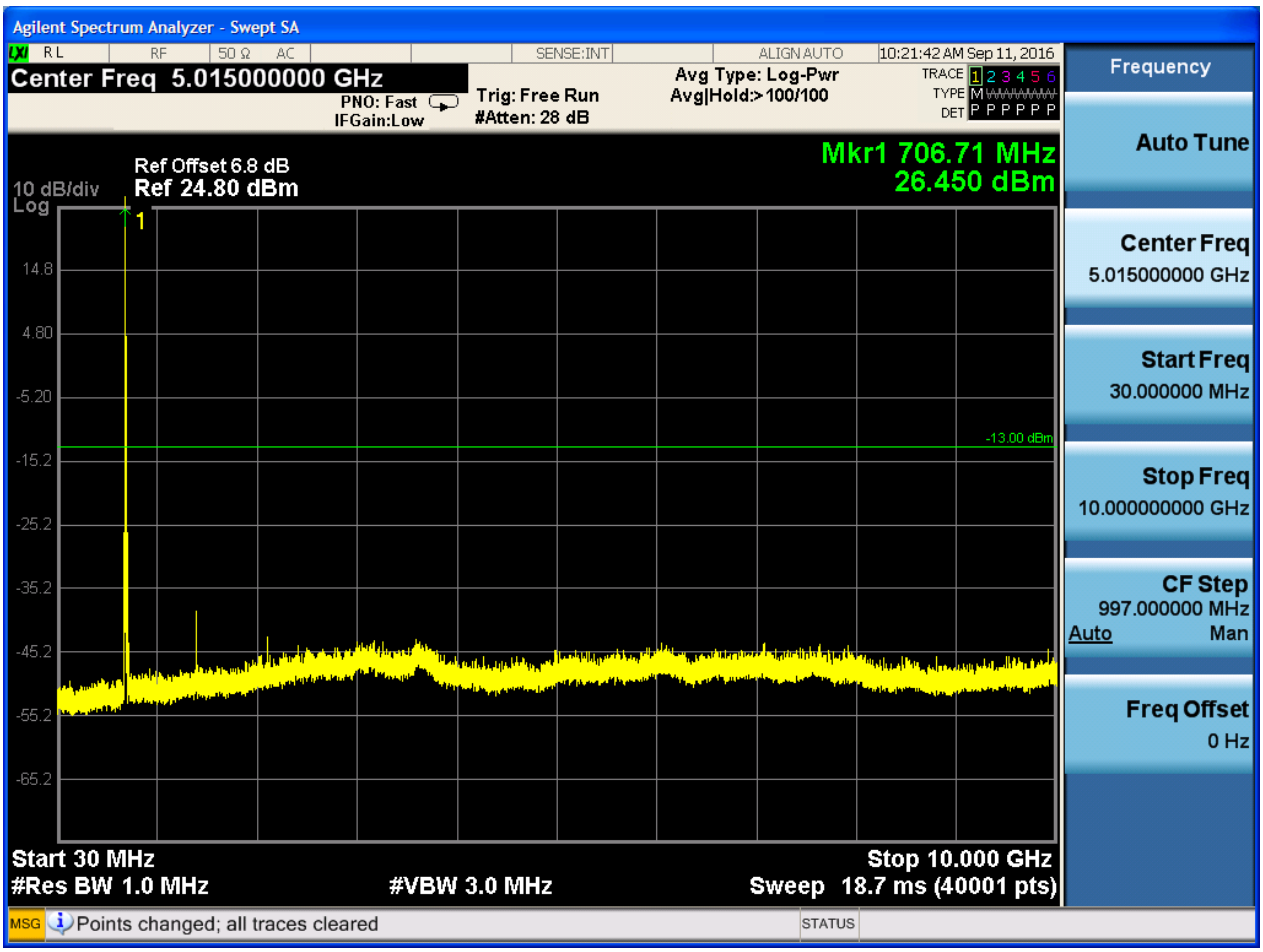
6.1.1.1.2.3.1 Test RB = RB1#0



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



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



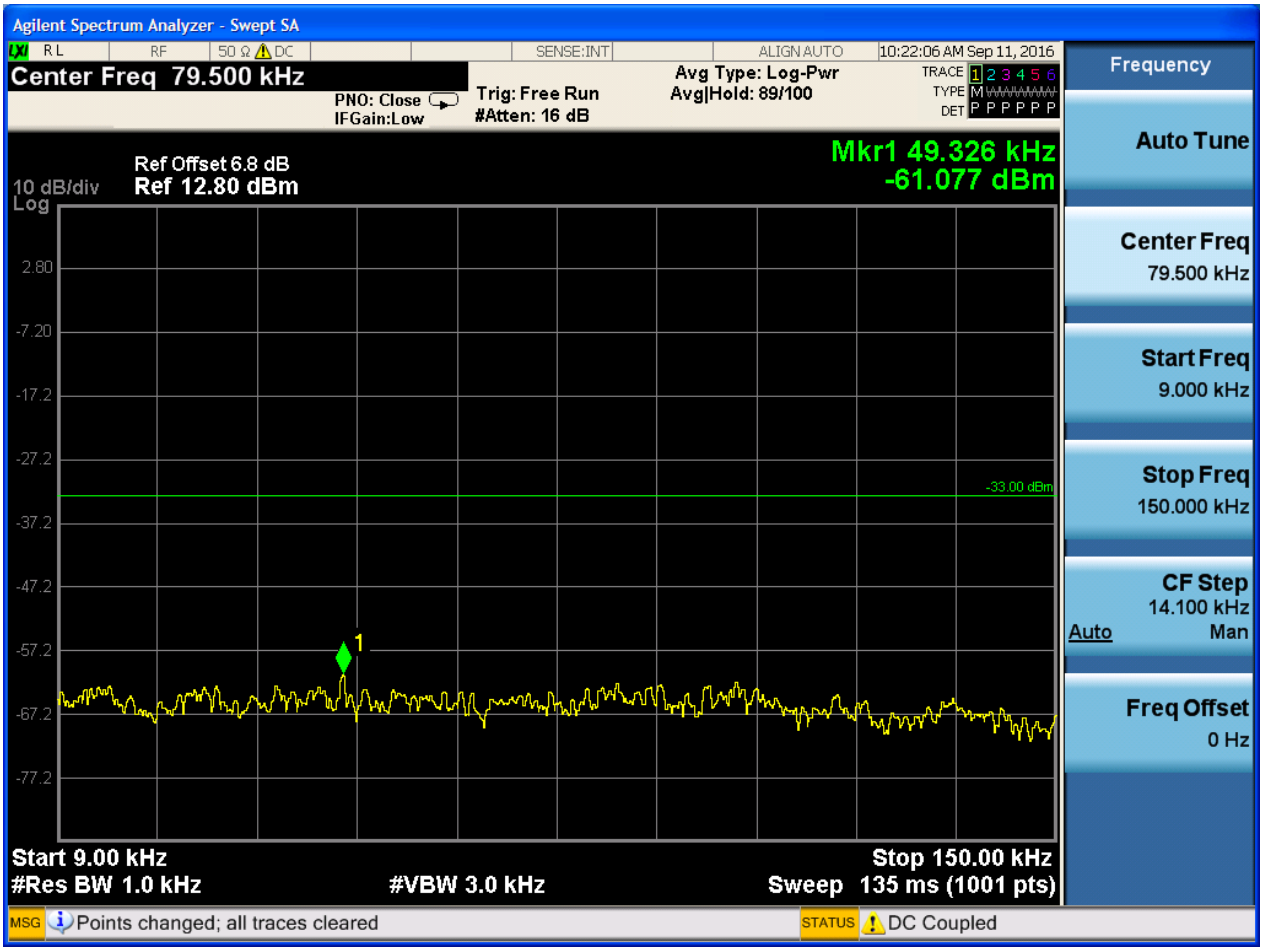
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.2 Test Mode = LTE/TM2

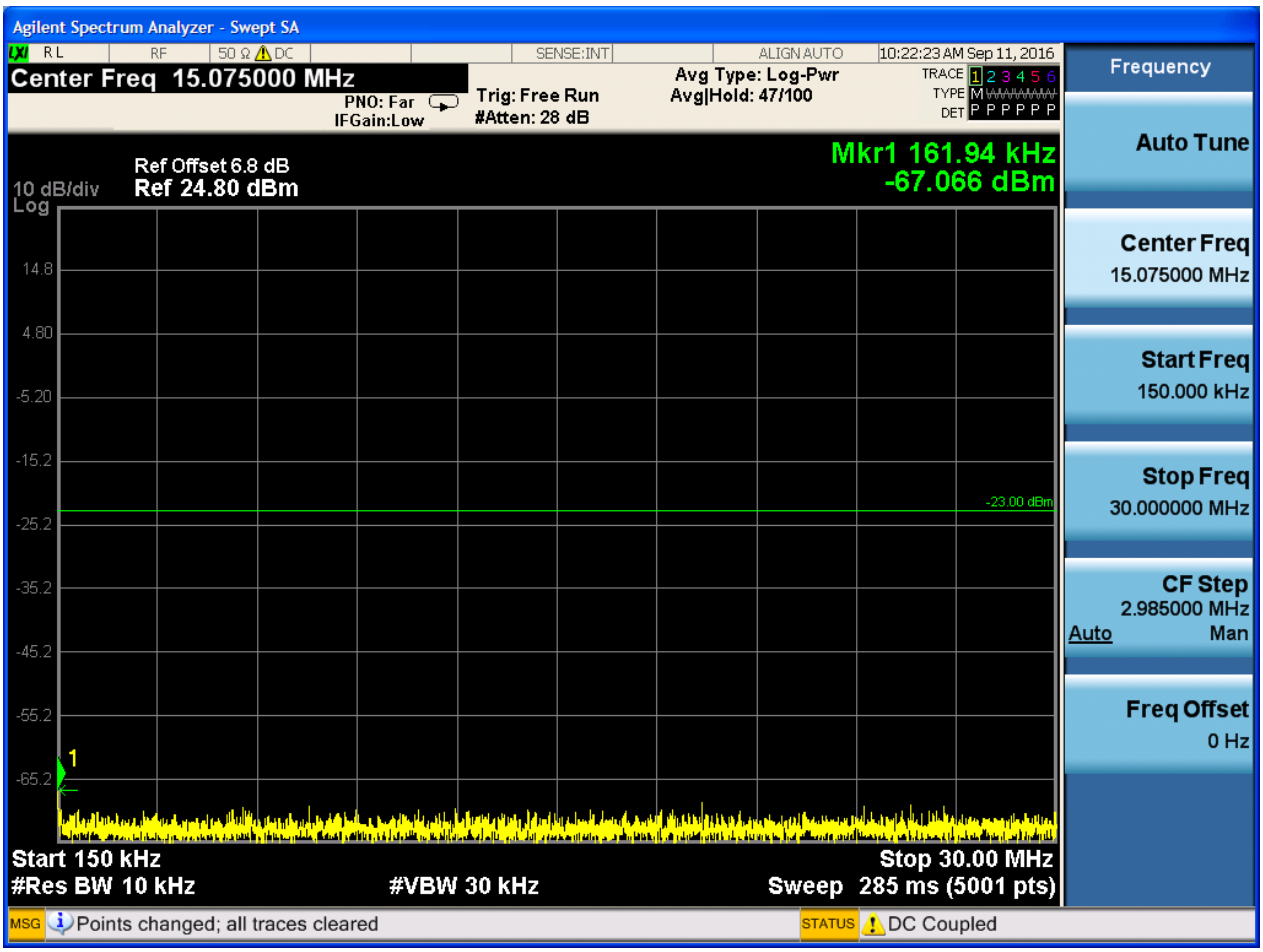
6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

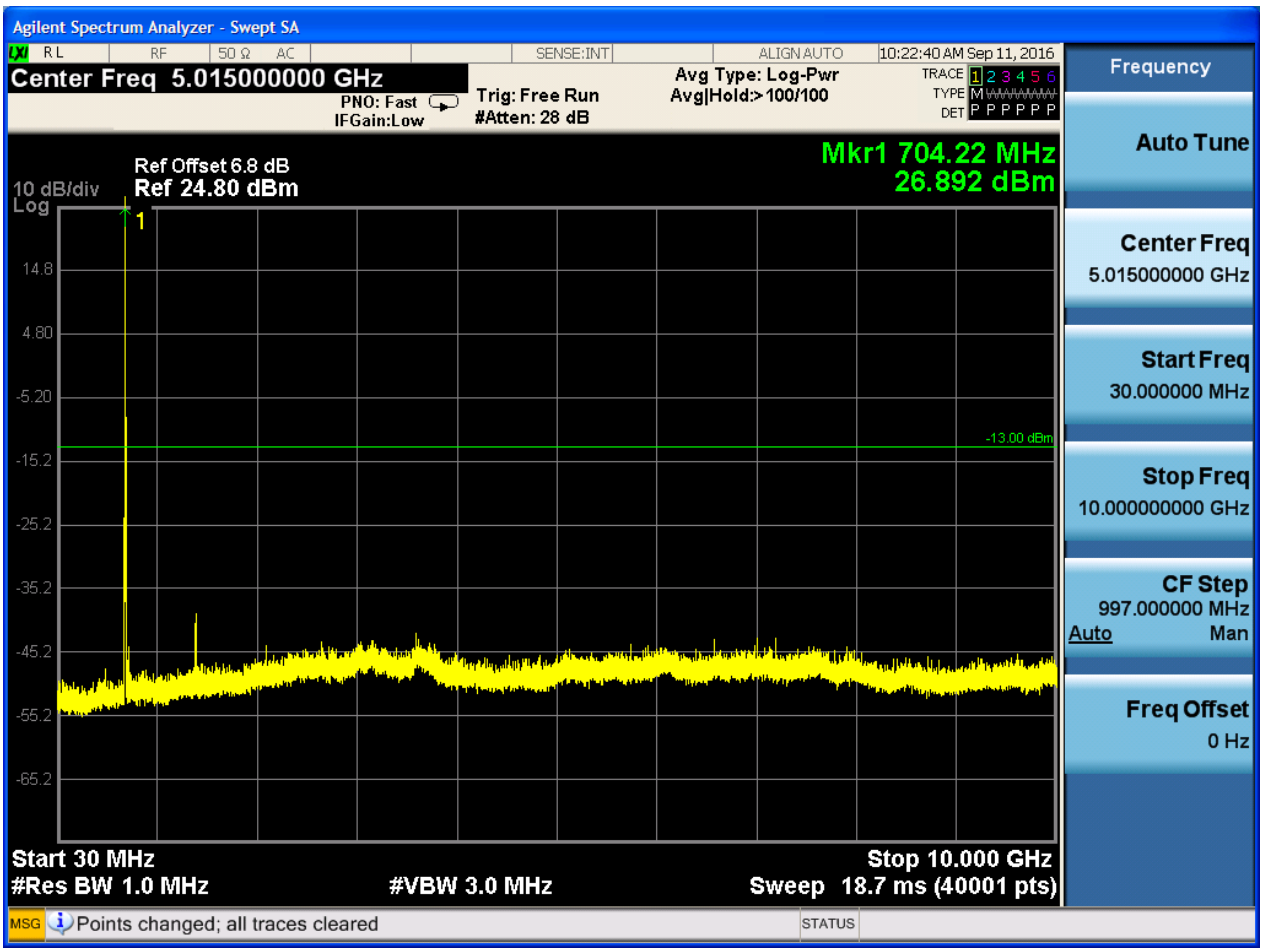
6.1.1.2.1.1.1 Test RB = RB1#0



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



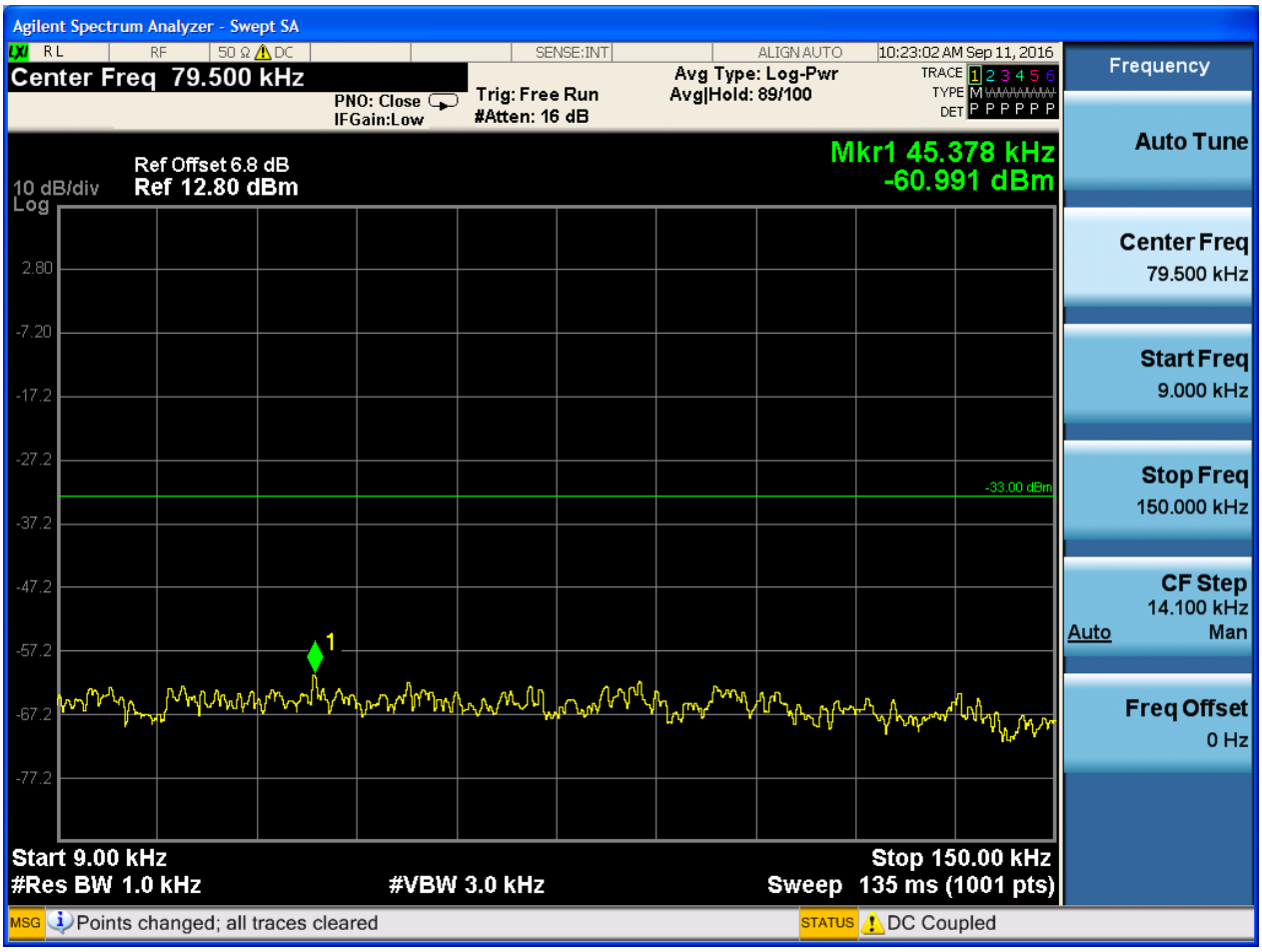
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



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

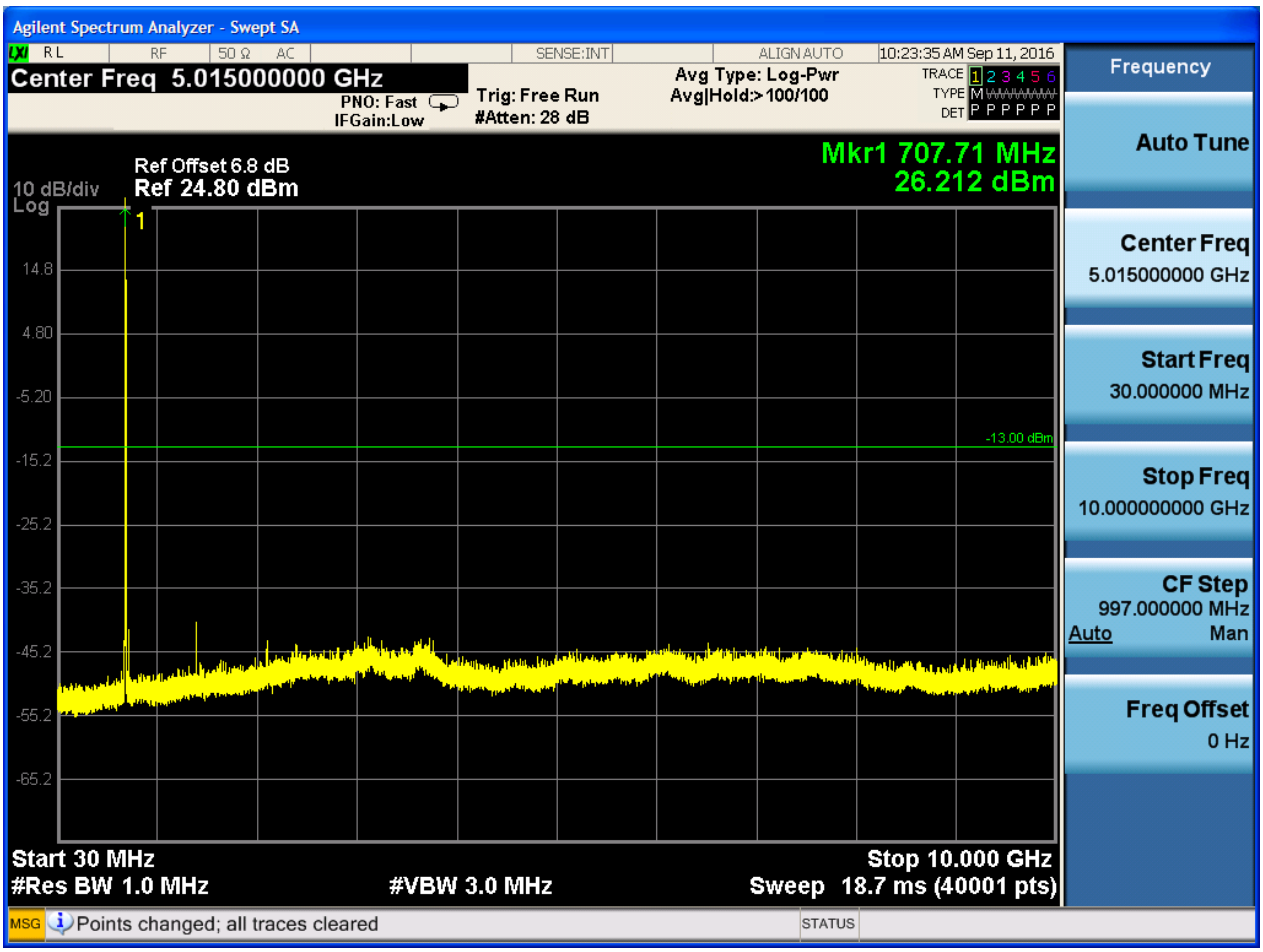
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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

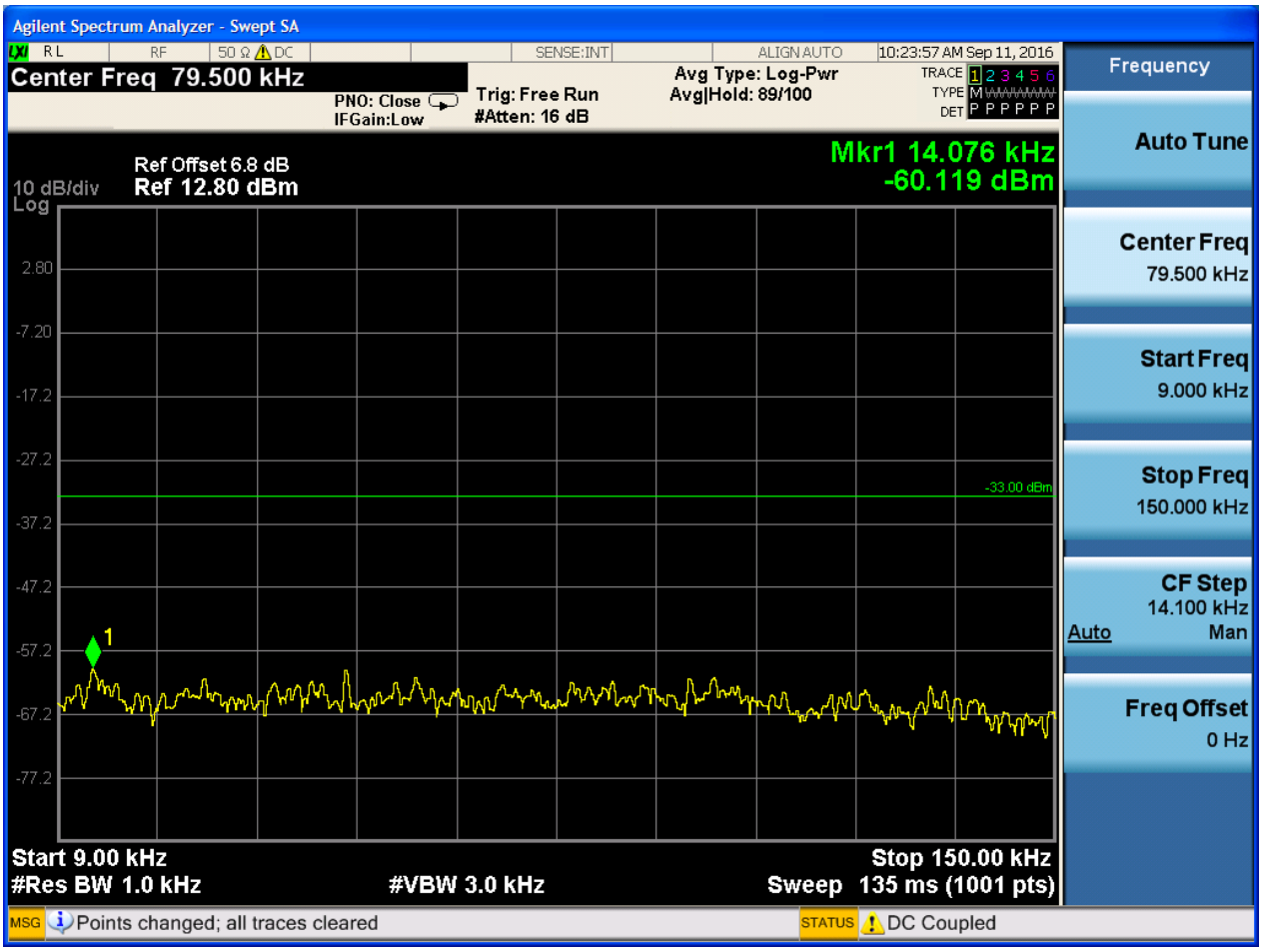
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



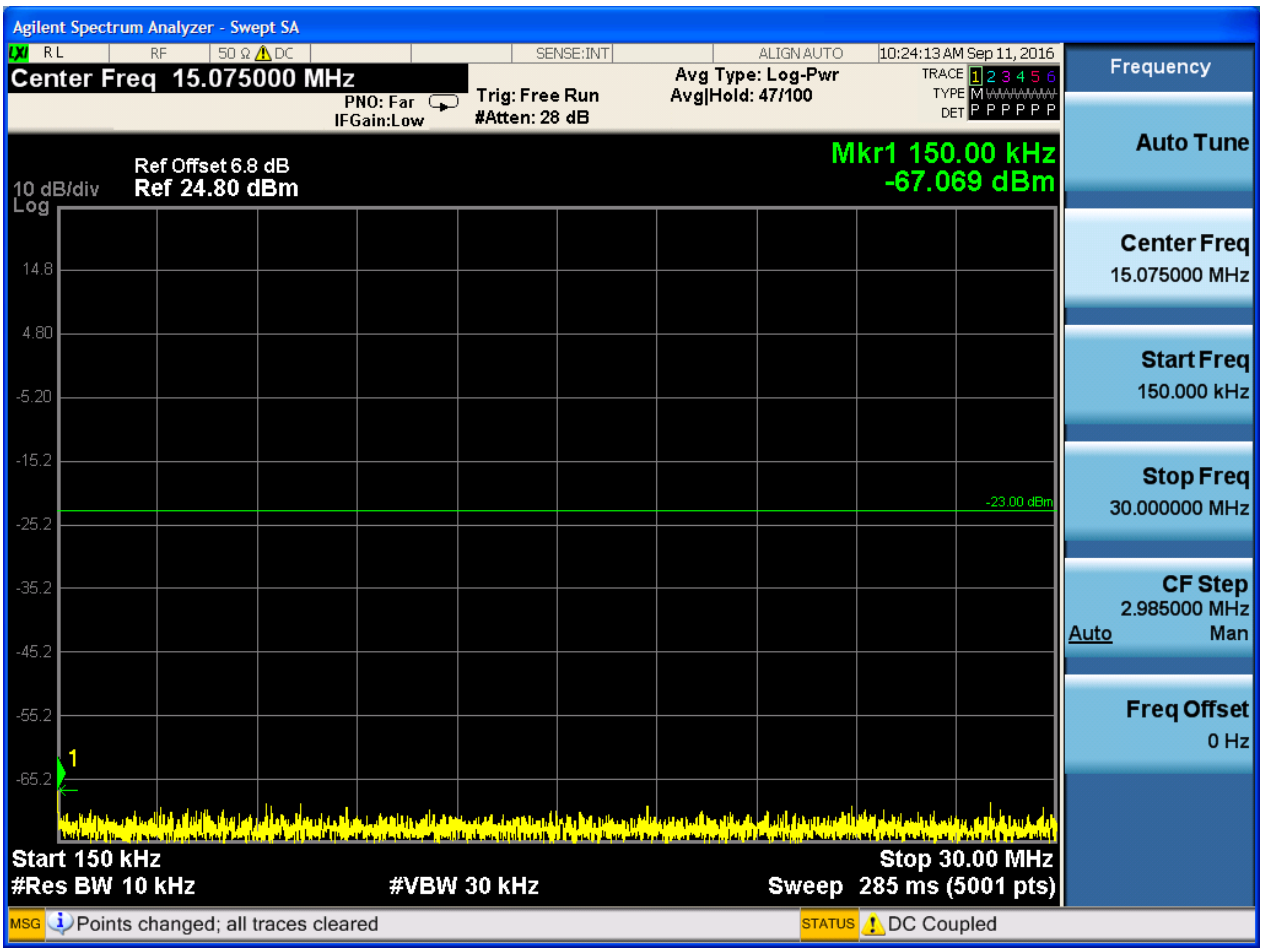
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.2.1.3 Test Channel = HCH

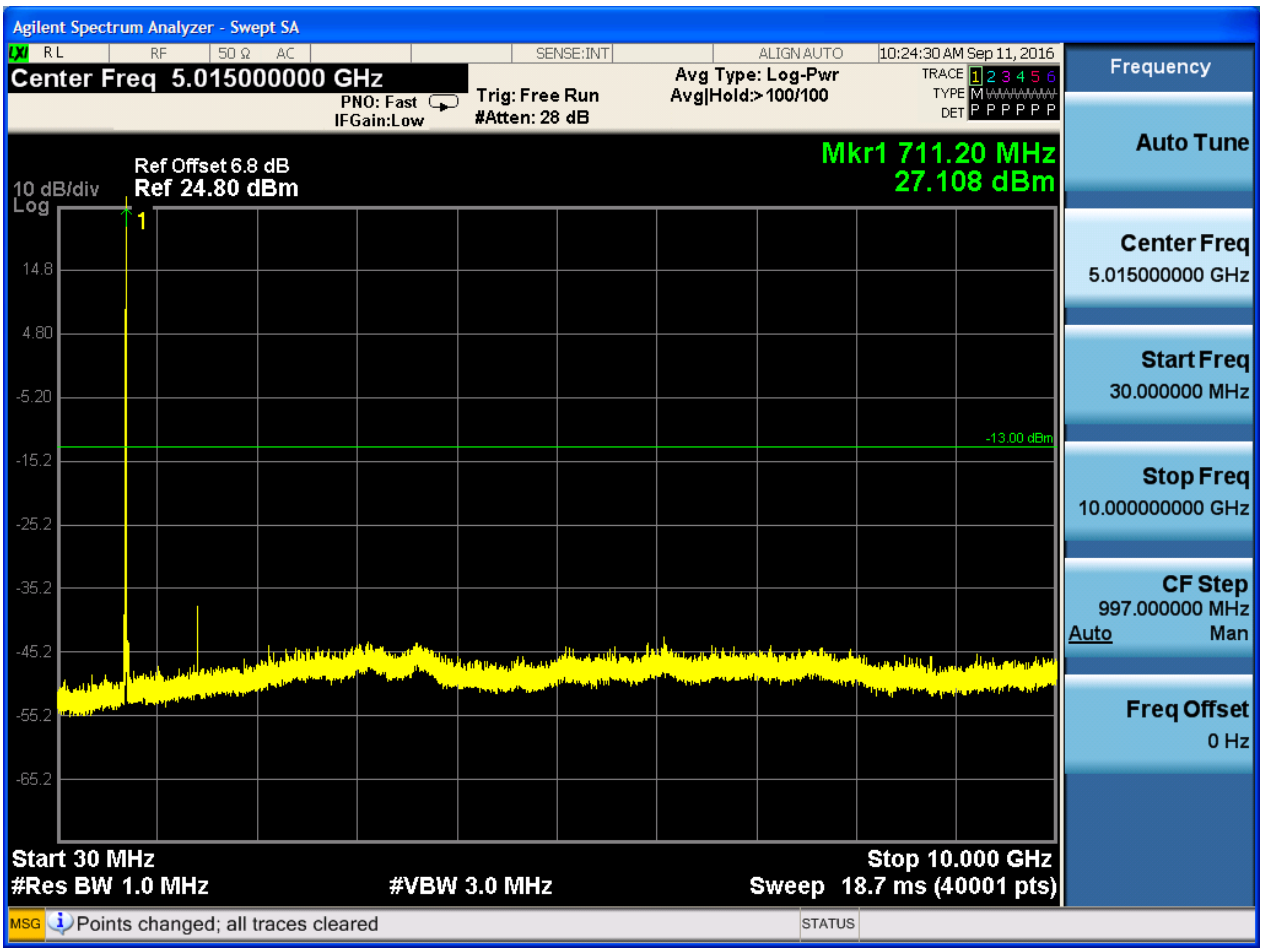
6.1.1.2.1.3.1 Test RB = RB1#0



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



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

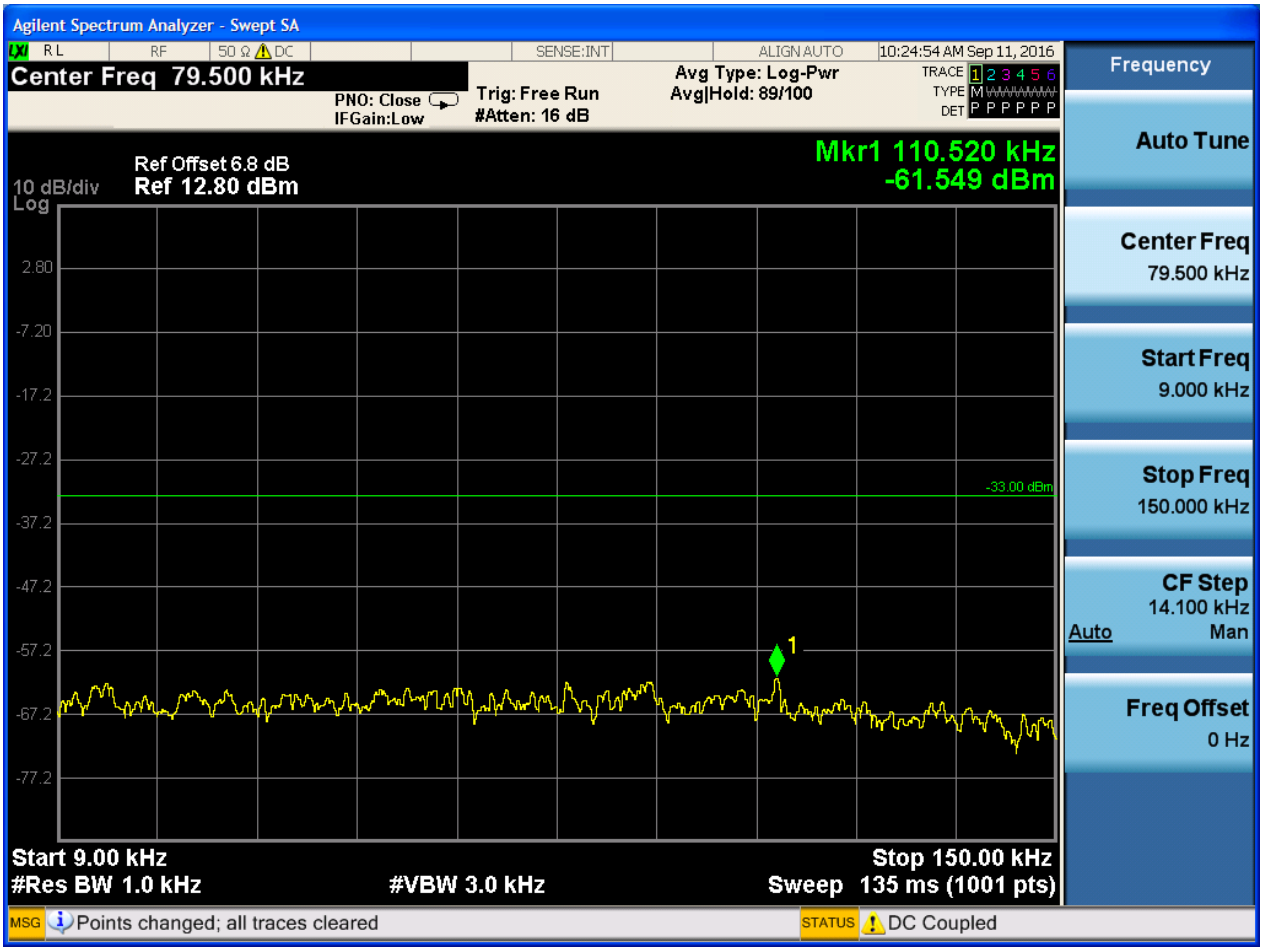


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

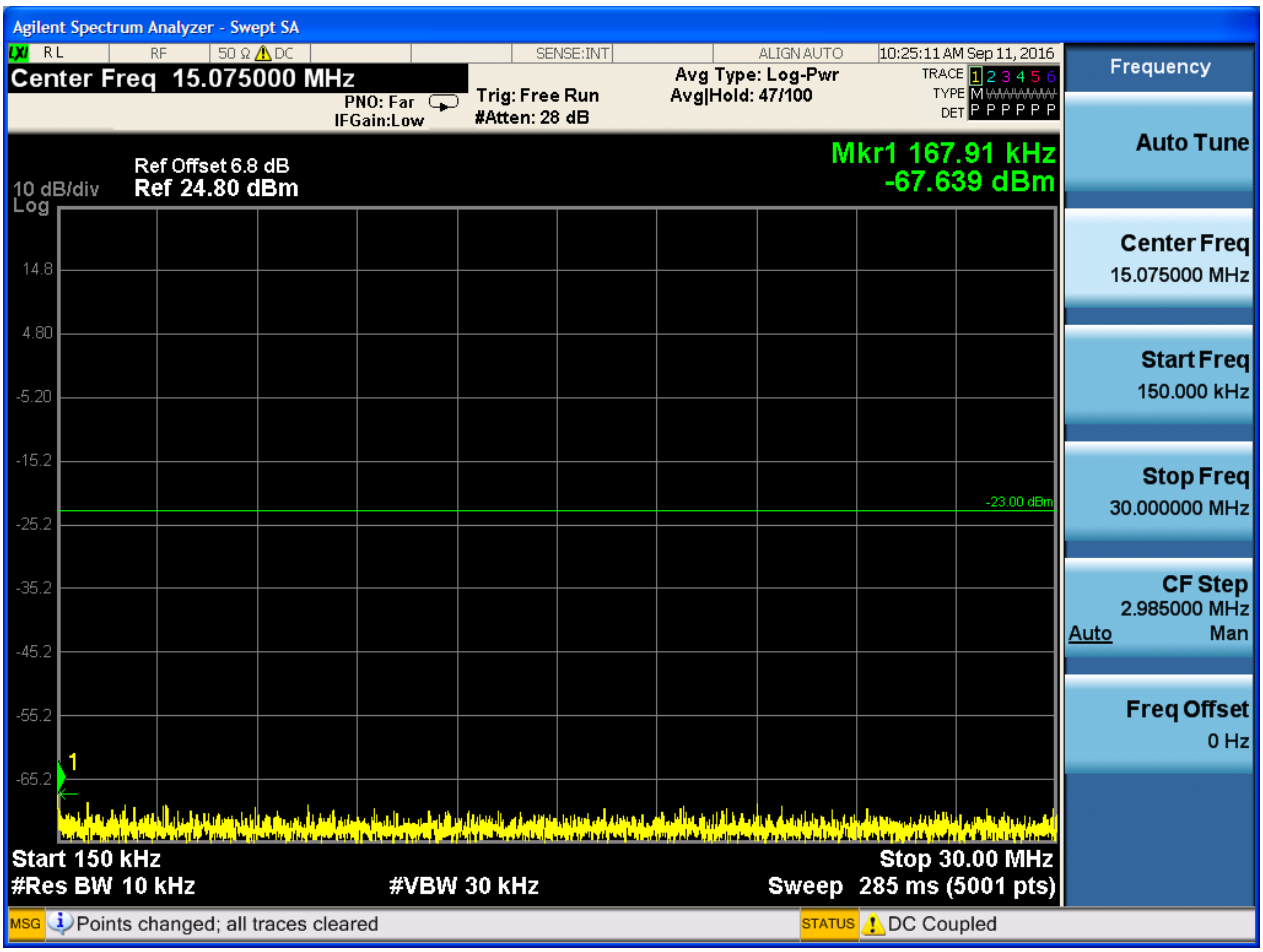
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

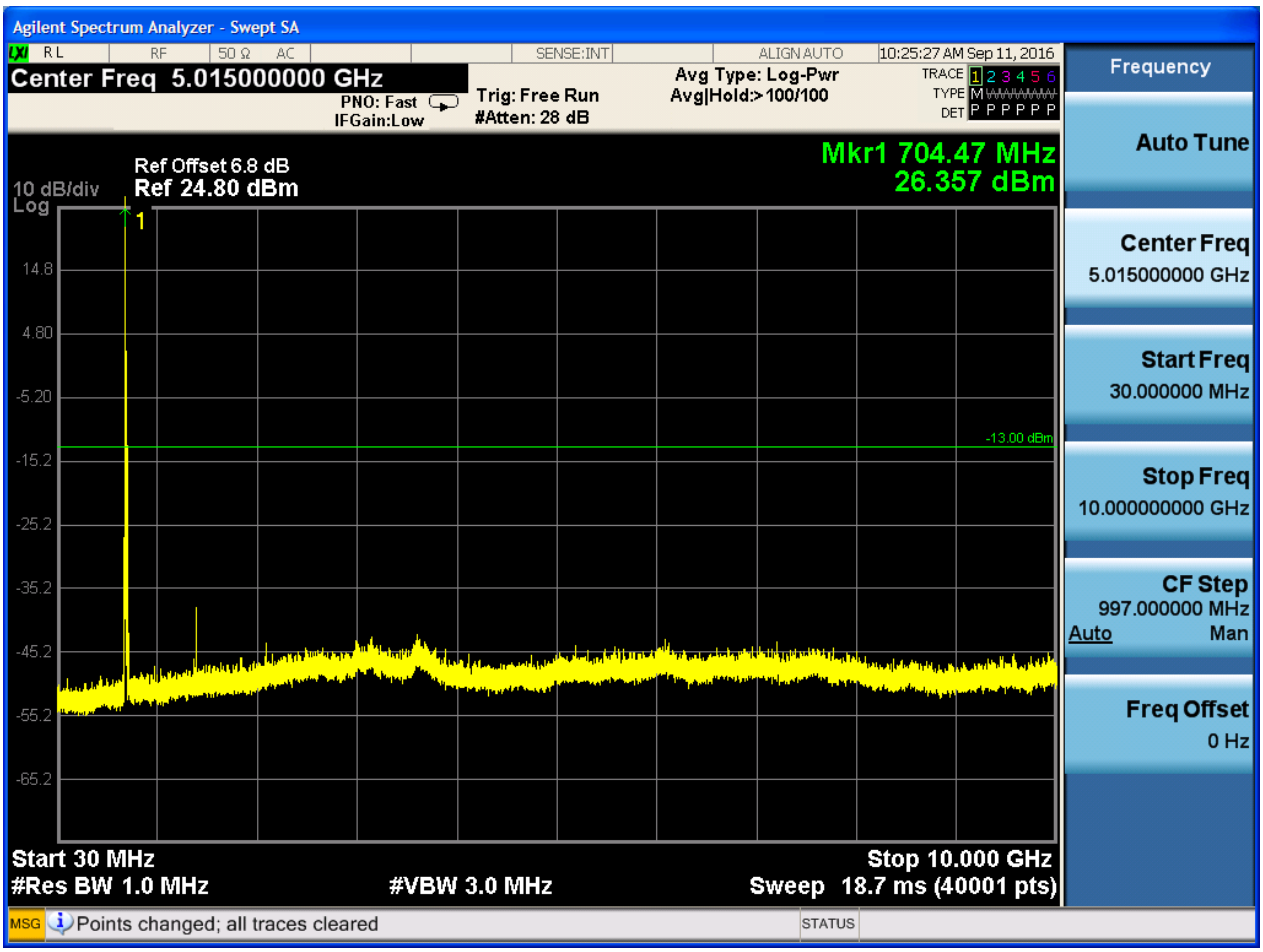
6.1.1.2.2.1.1 Test RB = RB1#0



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



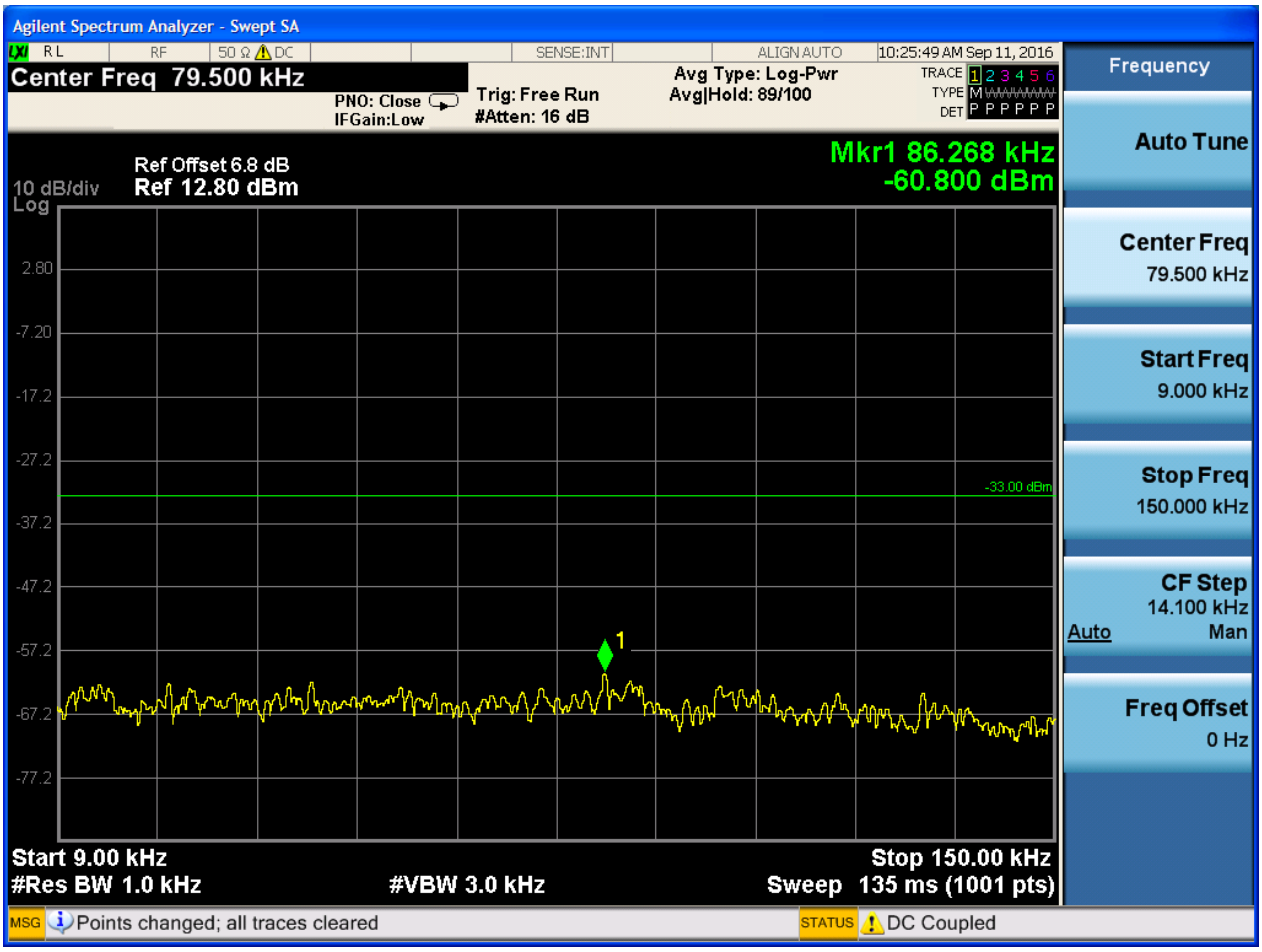
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



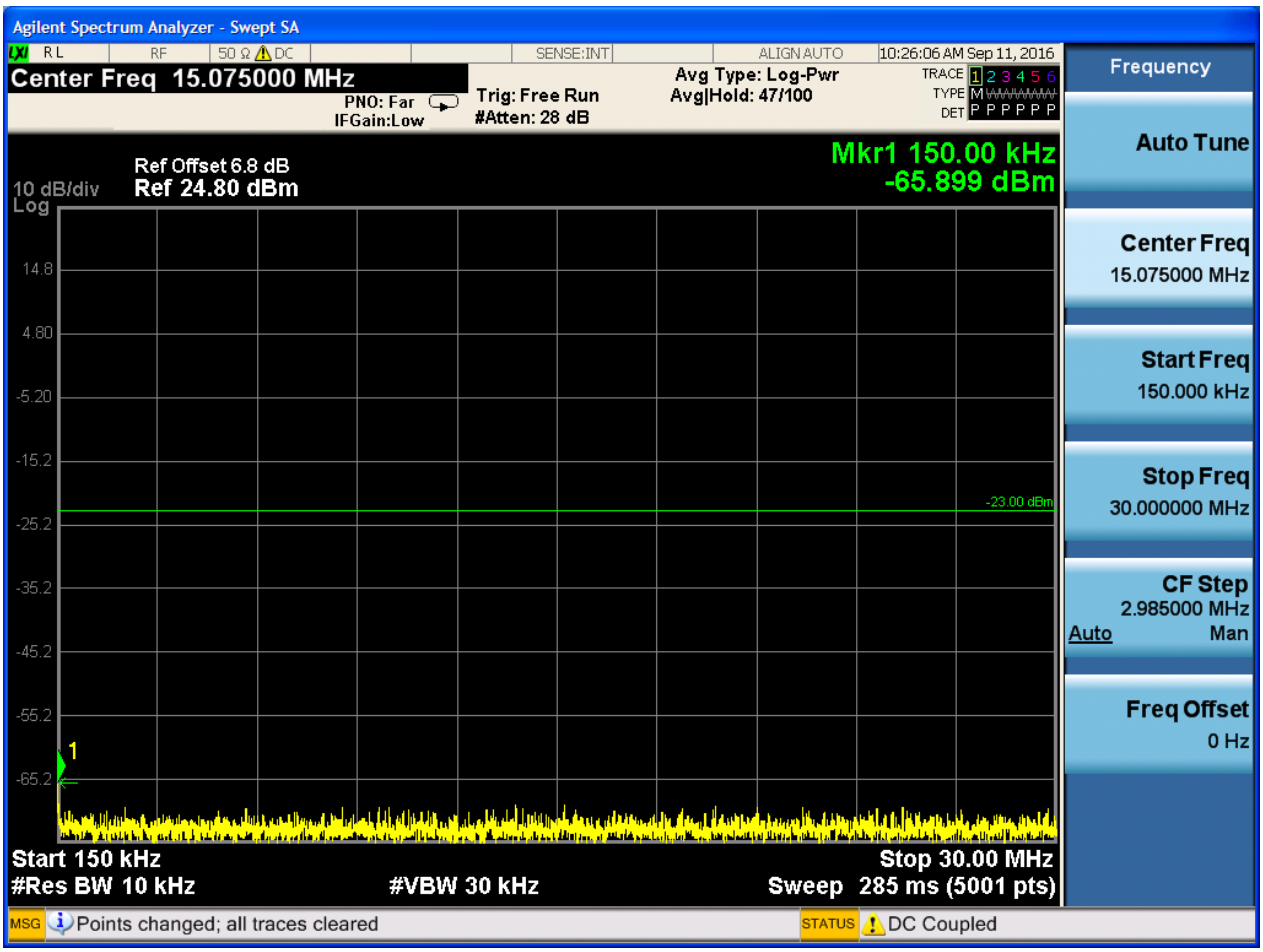
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

6.1.1.2.2.2 Test Channel = MCH

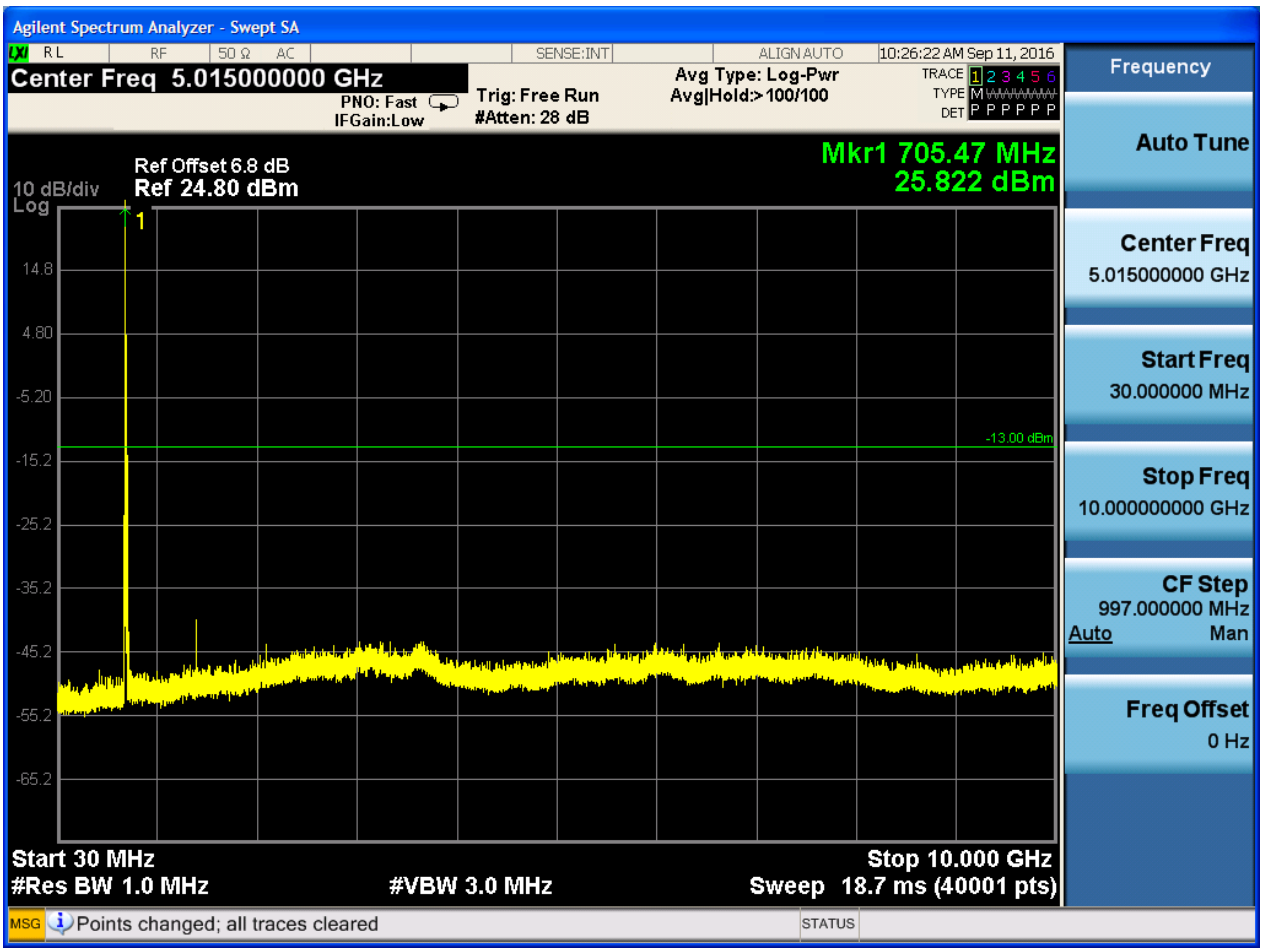
6.1.1.2.2.2.1 Test RB = RB1#0



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



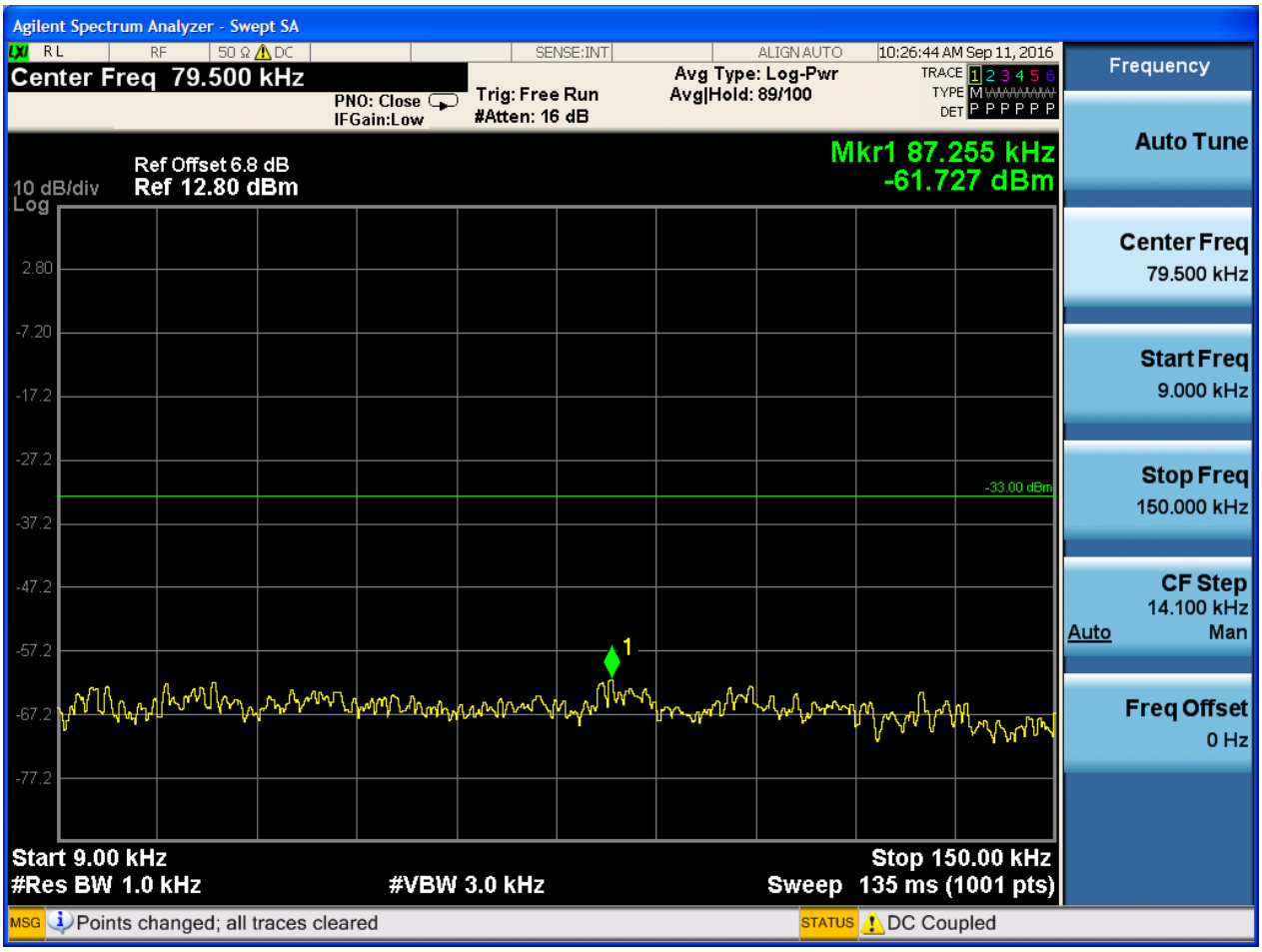
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.



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

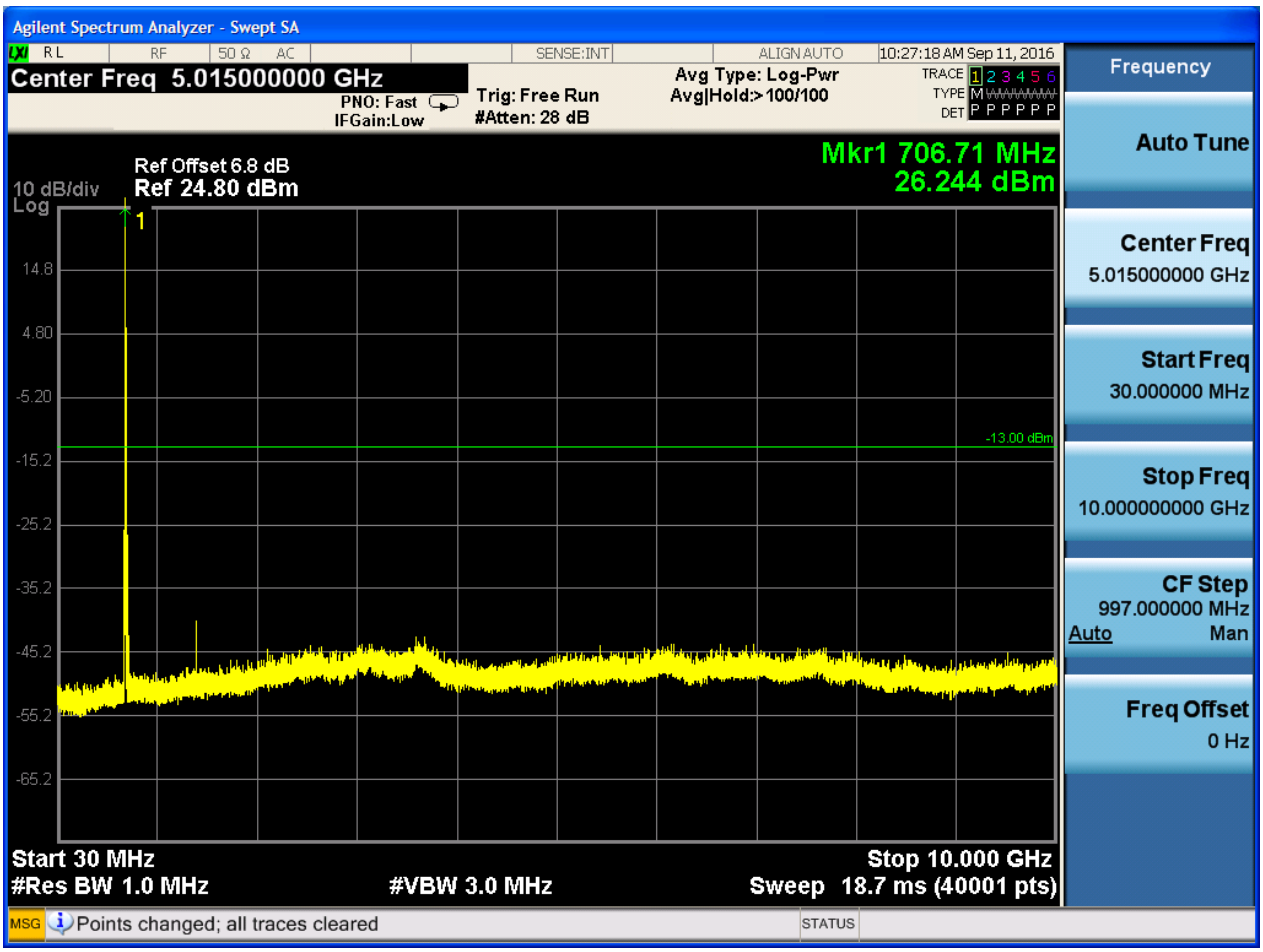
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 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.

7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

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

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

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

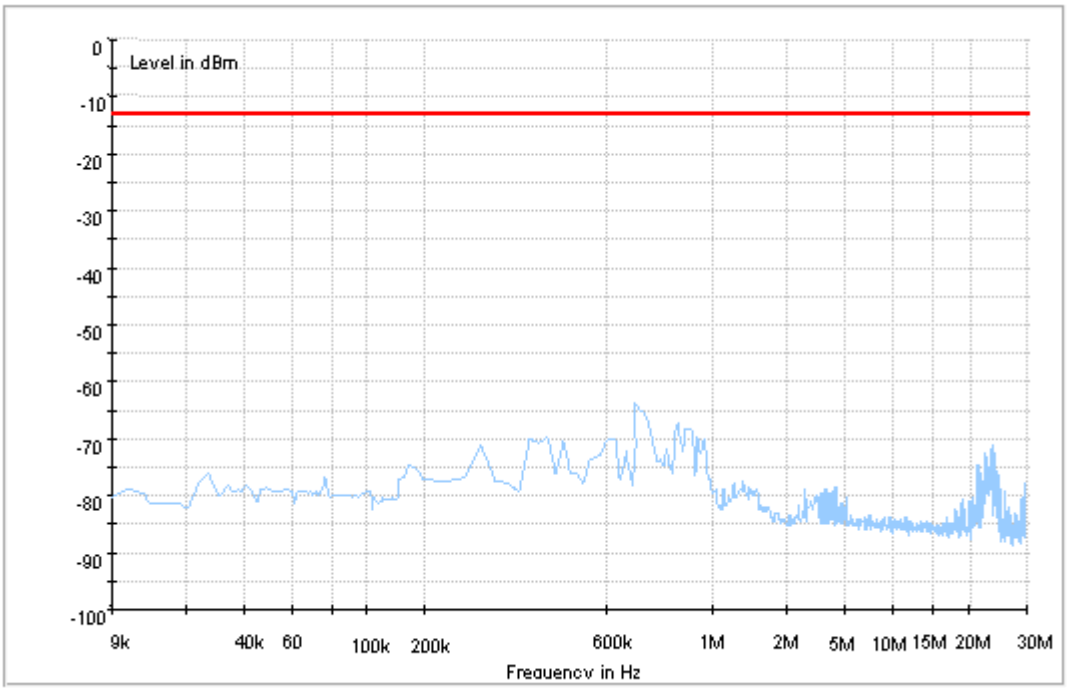
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

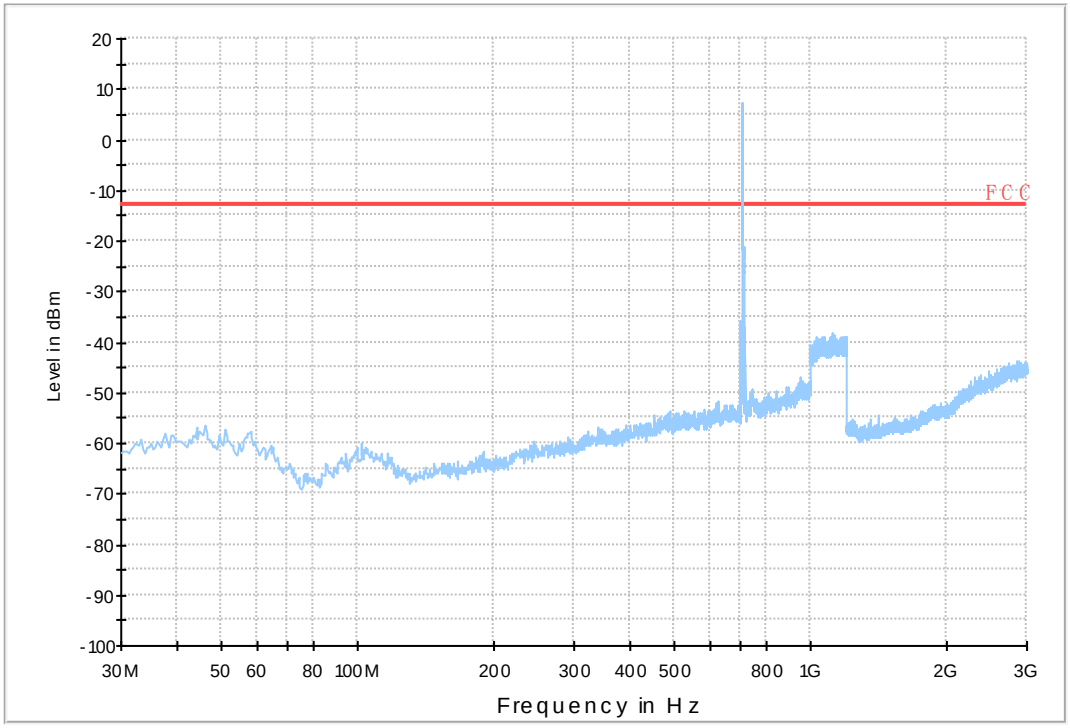
7.1.1 Test Band = BAND17_Ant1

7.1.1.1 Test Bandwidth = 5

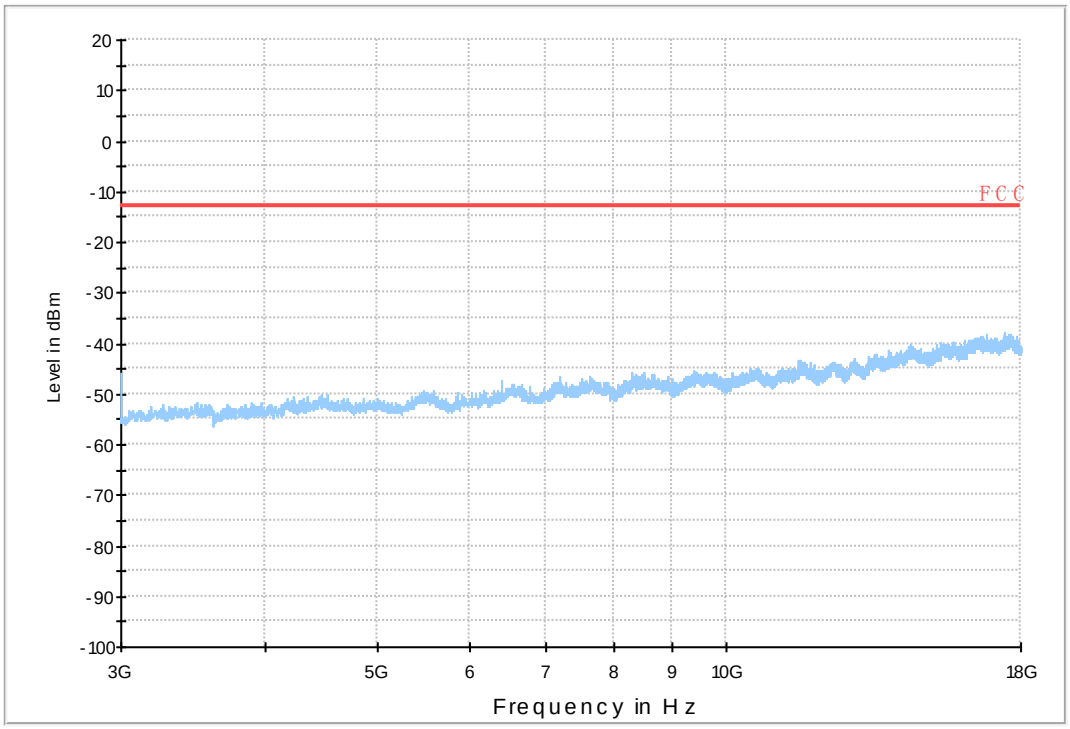


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

Copy of RSE-TX-DIRECTOR BELOW 1G_L

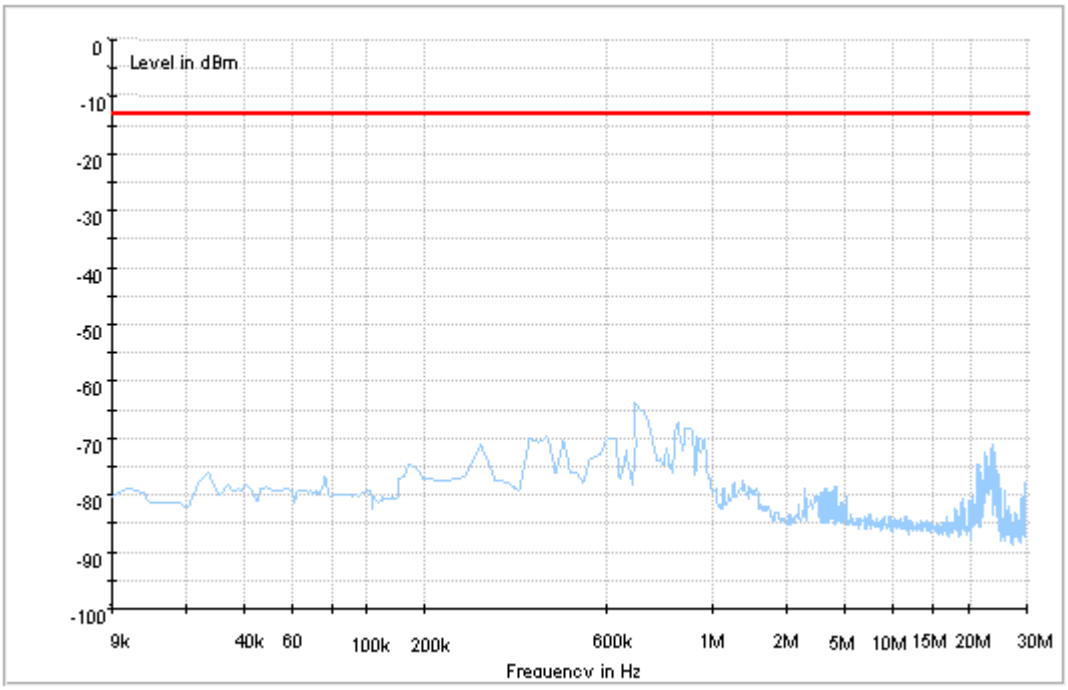


Copy of RSE-TX-DIRECTOR BELOW 1G_H

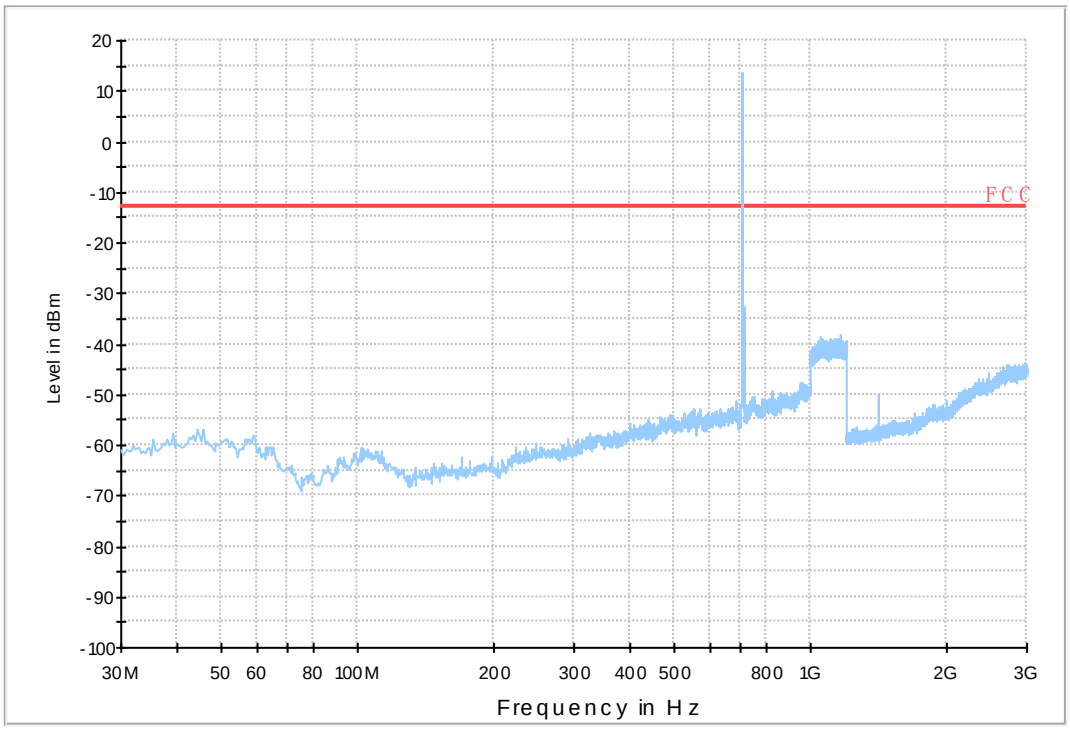


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

7.1.1.2 Test Bandwidth = 10

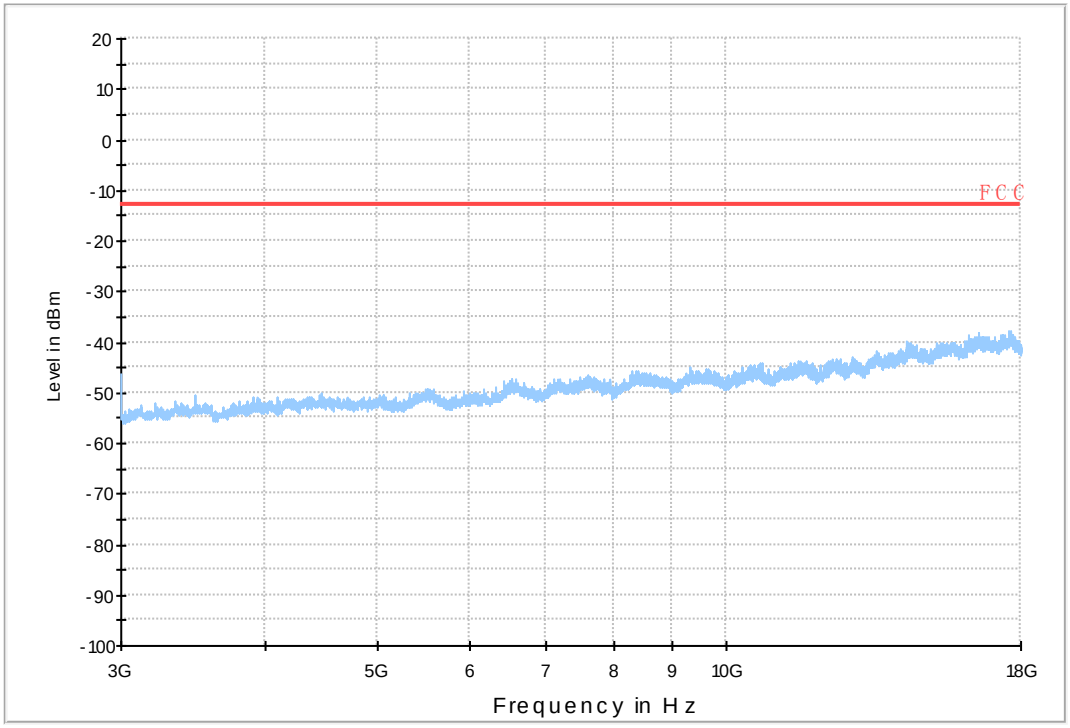


Copy of RSE-TX-DIRECTOR BELOW 1G_L



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

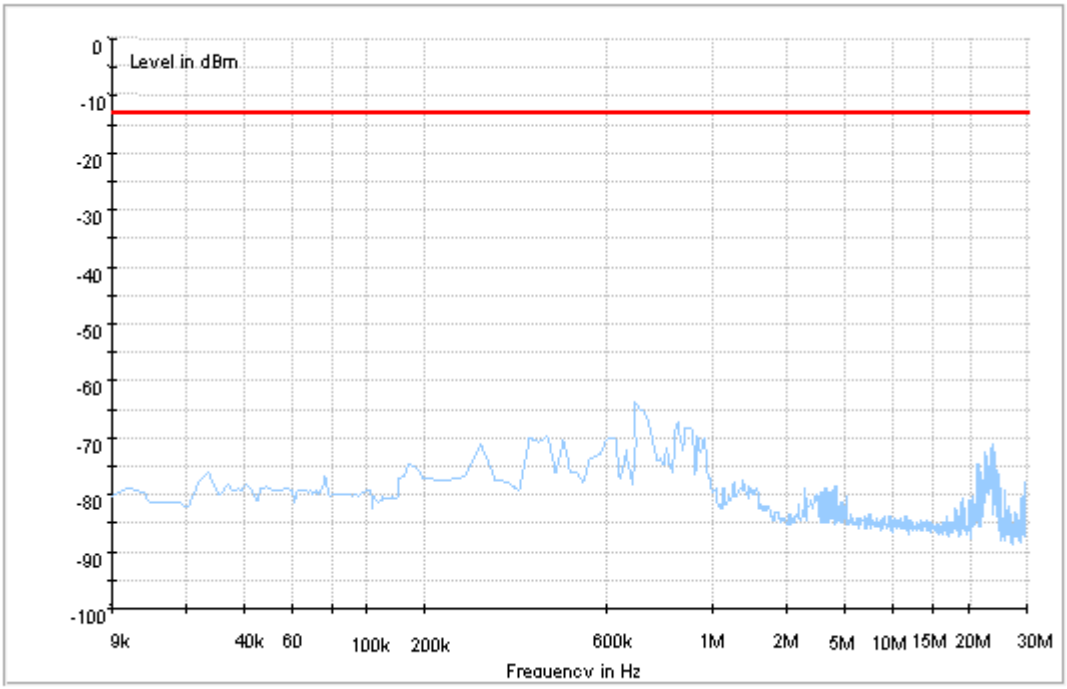
Copy of RSE-TX-DIRECTOR BELOW 1G_H



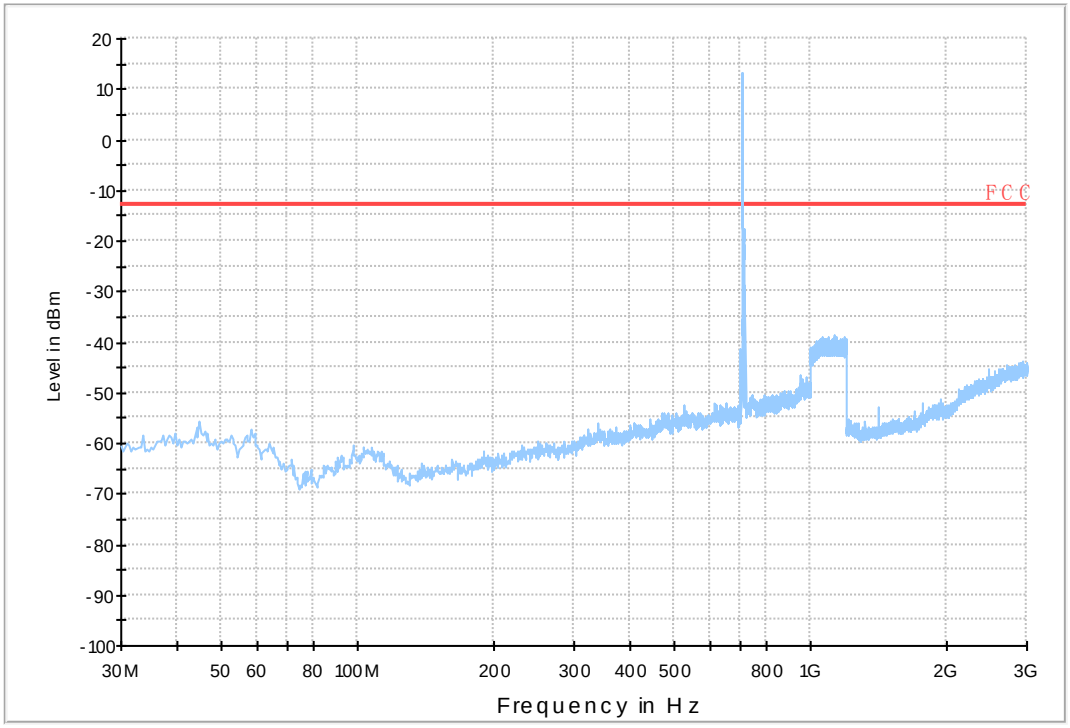
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

7.1.2 Test Band = BAND17_Ant2

7.1.2.1 Test Bandwidth = 5

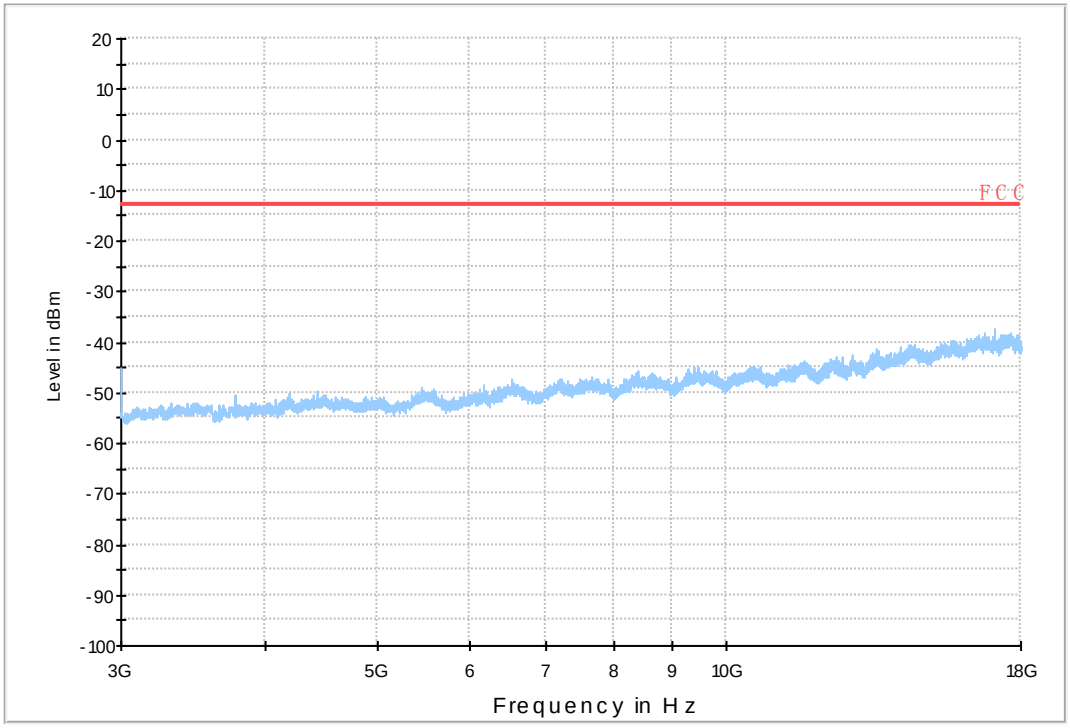


Copy of RSE-TX-DIRECTOR BELOW 1G_L



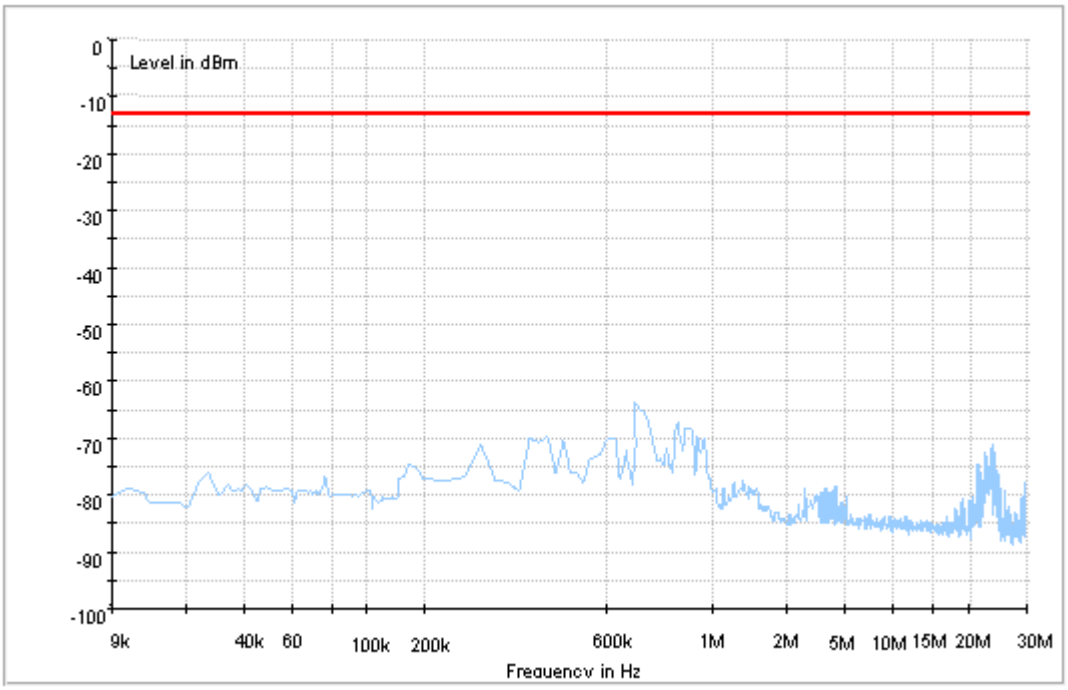
Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

Copy of RSE-TX-DIRECTOR BELOW 1G_H

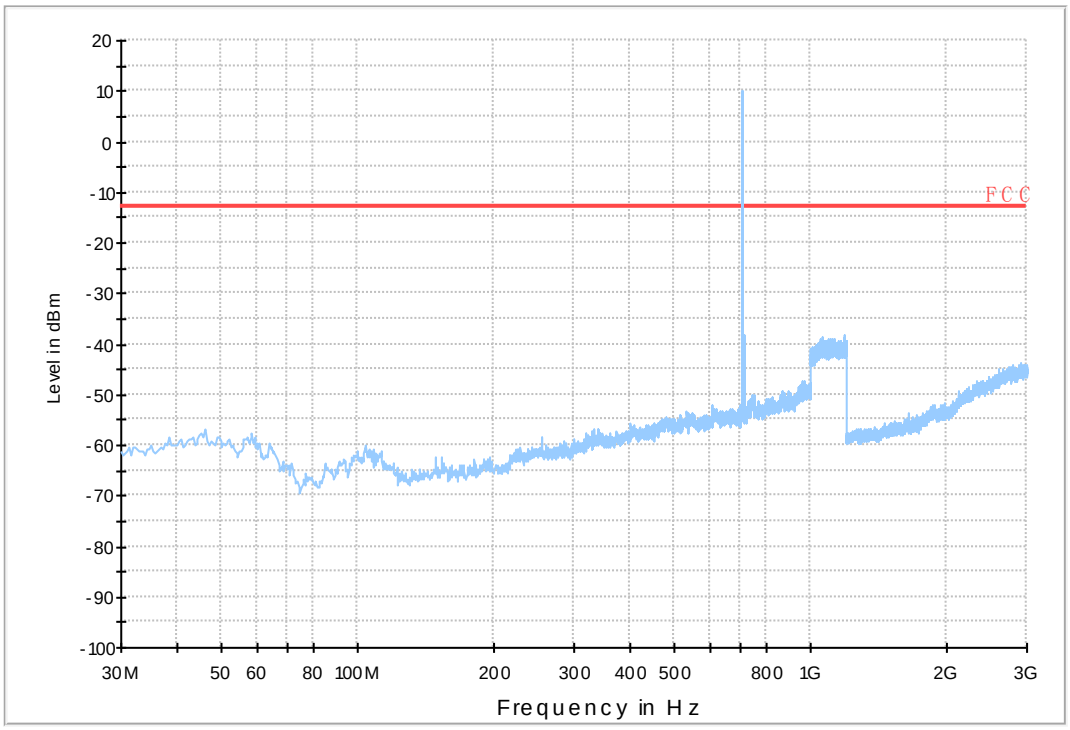


Huawei Proprietary and Confidential
Copyright © Huawei Technologies Co., Ltd.

7.1.2.2 Test Bandwidth = 10

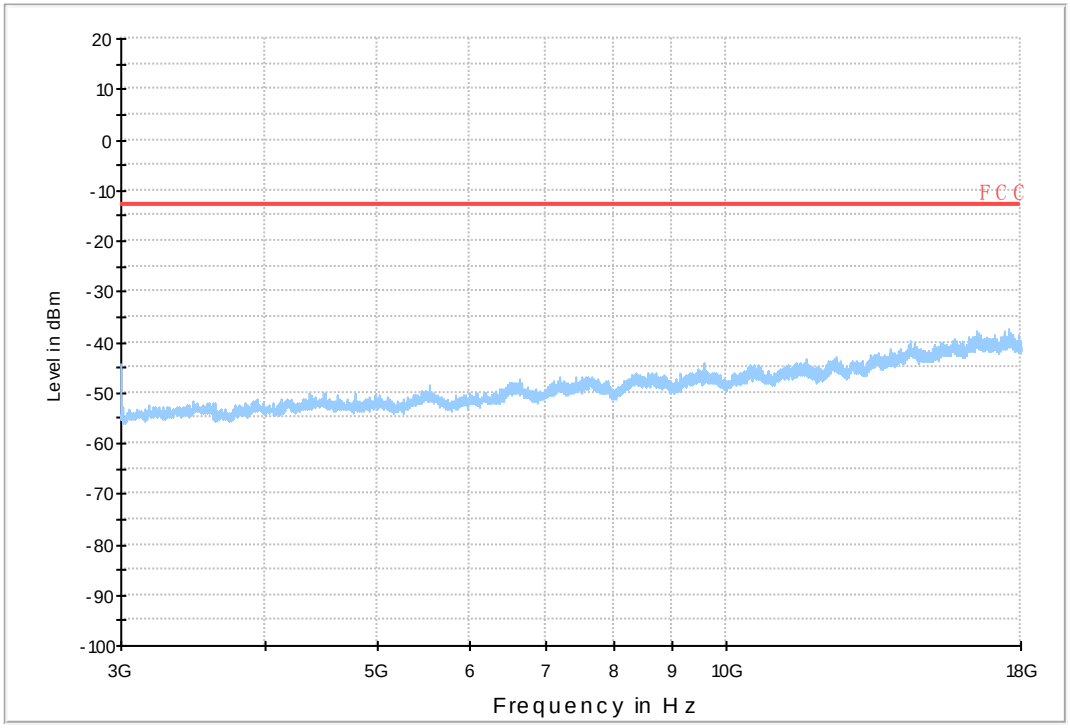


Copy of RSE-TX-DIRECTOR BELOW 1G_L



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

Copy of RSE-TX-DIRECTOR BELOW 1G_H



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
BAND17	LTE/TM1	5	LCH	TN	VL	0.30	0.00042	PASS
					VN	-0.94	-0.00133	PASS
					VH	-1.50	-0.00212	PASS
			MCH	TN	VL	0.51	0.00072	PASS
					VN	-2.36	-0.00332	PASS
					VH	1.42	0.002	PASS
			HCH	TN	VL	0.21	0.00029	PASS
					VN	1.20	0.00168	PASS
					VH	0.99	0.00139	PASS
		10	LCH	TN	VL	0.01	0.00001	PASS
					VN	1.04	0.00147	PASS
					VH	0.24	0.00034	PASS
			MCH	TN	VL	0.93	0.00131	PASS
					VN	2.90	0.00408	PASS
					VH	-0.19	-0.00027	PASS
			HCH	TN	VL	0.82	0.00115	PASS
					VN	-0.39	-0.00055	PASS
					VH	0.13	0.00018	PASS
	LTE/TM2	5	LCH	TN	VL	-1.37	-0.00194	PASS
					VN	2.00	0.00283	PASS
					VH	-1.10	-0.00156	PASS
			MCH	TN	VL	1.83	0.00258	PASS
					VN	0.36	0.00051	PASS
					VH	0.46	0.00065	PASS
			HCH	TN	VL	-0.54	-0.00076	PASS
					VN	-0.51	-0.00071	PASS
					VH	1.26	0.00177	PASS
		10	LCH	TN	VL	-0.53	-0.00075	PASS
					VN	-1.95	-0.00275	PASS
					VH	0.79	0.00111	PASS
			MCH	TN	VL	-1.63	-0.0023	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
					VN	0.13	0.00018	PASS
					VH	1.90	0.00268	PASS
			HCH	TN	VL	0.14	0.0002	PASS
					VN	1.56	0.00219	PASS
					VH	-0.11	-0.00015	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
BAND17	LTE/TM1	5	LCH	VN	-30	8.1	0.0053	PASS
					-20	-7.15	-0.01034	PASS
					-10	-7.99	-0.01152	PASS
					0	-15.62	-0.02232	PASS
					10	-6.09	-0.00884	PASS
					20	-1.55	-0.00241	PASS
					30	-10.27	-0.01475	PASS
					40	3.15	0.00424	PASS
					50	-7.3	-0.01055	PASS
			MCH	VN	-30	-4.7	-0.00685	PASS
					-20	-9.26	-0.01327	PASS
					-10	-2.53	-0.00379	PASS
					0	-2.5	-0.00375	PASS
					10	-1.33	-0.0021	PASS
					20	-6.73	-0.00971	PASS
					30	-1.2	-0.00192	PASS
					40	-4.69	-0.00683	PASS
					50	-1.44	-0.00226	PASS
			HCH	VN	-30	-2.07	-0.00314	PASS
					-20	-0.91	-0.00152	PASS
					-10	0.98	0.00113	PASS
					0	-5.79	-0.00836	PASS
					10	-0.12	-0.00041	PASS
					20	-1.15	-0.00185	PASS
					30	0.06	-0.00016	PASS
					40	4.73	0.00639	PASS
					50	-3.31	-0.00488	PASS
		10	LCH	VN	-30	-5.8	-0.00841	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	-6.26	-0.00905	PASS
					-10	-6.6	-0.00953	PASS
					0	-7.96	-0.01145	PASS
					10	-7.86	-0.01131	PASS
					20	-6.85	-0.00989	PASS
					30	-7.22	-0.01041	PASS
					40	-6.98	-0.01007	PASS
					50	-6.29	-0.0091	PASS
			MCH	VN	-30	-3.24	-0.00479	PASS
					-20	-1.9	-0.0029	PASS
					-10	-3.49	-0.00514	PASS
					0	-3.66	-0.00538	PASS
					10	-2.71	-0.00405	PASS
					20	-6.2	-0.00896	PASS
					30	-5.57	-0.00807	PASS
					40	-6.9	-0.00995	PASS
					50	-2.53	-0.00379	PASS
			HCH	VN	-30	-2.01	-0.00306	PASS
					-20	-1.95	-0.00297	PASS
					-10	-1.54	-0.0024	PASS
					0	-2.64	-0.00395	PASS
					10	-1.51	-0.00236	PASS
					20	-3.87	-0.00568	PASS
					30	-4.83	-0.00703	PASS
					40	-2.58	-0.00386	PASS
					50	-2.41	-0.00362	PASS
	LTE/TM2	5	LCH	VN	-30	-5.03	-0.00734	PASS
					-20	4.1	0.00559	PASS
					-10	-2.98	-0.00443	PASS
					0	-1.41	-0.00221	PASS
					10	-6.79	-0.00983	PASS
					20	-0.85	-0.00142	PASS
					30	-3.01	-0.00448	PASS
					40	-5.03	-0.00734	PASS
					50	4.2	0.00573	PASS
			MCH	VN	-30	1.42	0.00177	PASS
					-20	-2.91	-0.00433	PASS
					-10	-1.45	-0.00227	PASS
					0	-8.85	-0.01269	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	0.94	0.0011	PASS
					20	-4.16	-0.00609	PASS
					30	-2.78	-0.00414	PASS
					40	-4.7	-0.00685	PASS
					50	-1.83	-0.00281	PASS
			HCH	VN	-30	-3.16	-0.00467	PASS
					-20	3.51	0.00468	PASS
					-10	-1.78	-0.00274	PASS
					0	4.9	0.00663	PASS
					10	-0.65	-0.00115	PASS
					20	0.56	0.00054	PASS
					30	-4.33	-0.00631	PASS
					40	0.49	0.00045	PASS
					50	3.11	0.00412	PASS
		10	LCH	VN	-30	-5.06	-0.00736	PASS
					-20	-2.28	-0.00344	PASS
					-10	-3.24	-0.00479	PASS
					0	-1.95	-0.00298	PASS
					10	-1.75	-0.00269	PASS
					20	-2.03	-0.00309	PASS
					30	-2.48	-0.00372	PASS
					40	-2.57	-0.00385	PASS
					50	-2.18	-0.0033	PASS
			MCH	VN	-30	-1.24	-0.00197	PASS
					-20	-2.44	-0.00367	PASS
					-10	-1.63	-0.00252	PASS
					0	-0.45	-0.00086	PASS
					10	-3.69	-0.00543	PASS
					20	-2.05	-0.00312	PASS
					30	-1.5	-0.00234	PASS
					40	-2.77	-0.00413	PASS
					50	-2.51	-0.00376	PASS
			HCH	VN	-30	-1.53	-0.00238	PASS
					-20	-0.3	-0.00065	PASS
					-10	-1.65	-0.00255	PASS
					0	-2.98	-0.00442	PASS
					10	-0.75	-0.00129	PASS
					20	-1.3	-0.00206	PASS
					30	-0.77	-0.00132	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
					40	-0.84	-0.00141	PASS
					50	-0.75	-0.00129	PASS

END

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