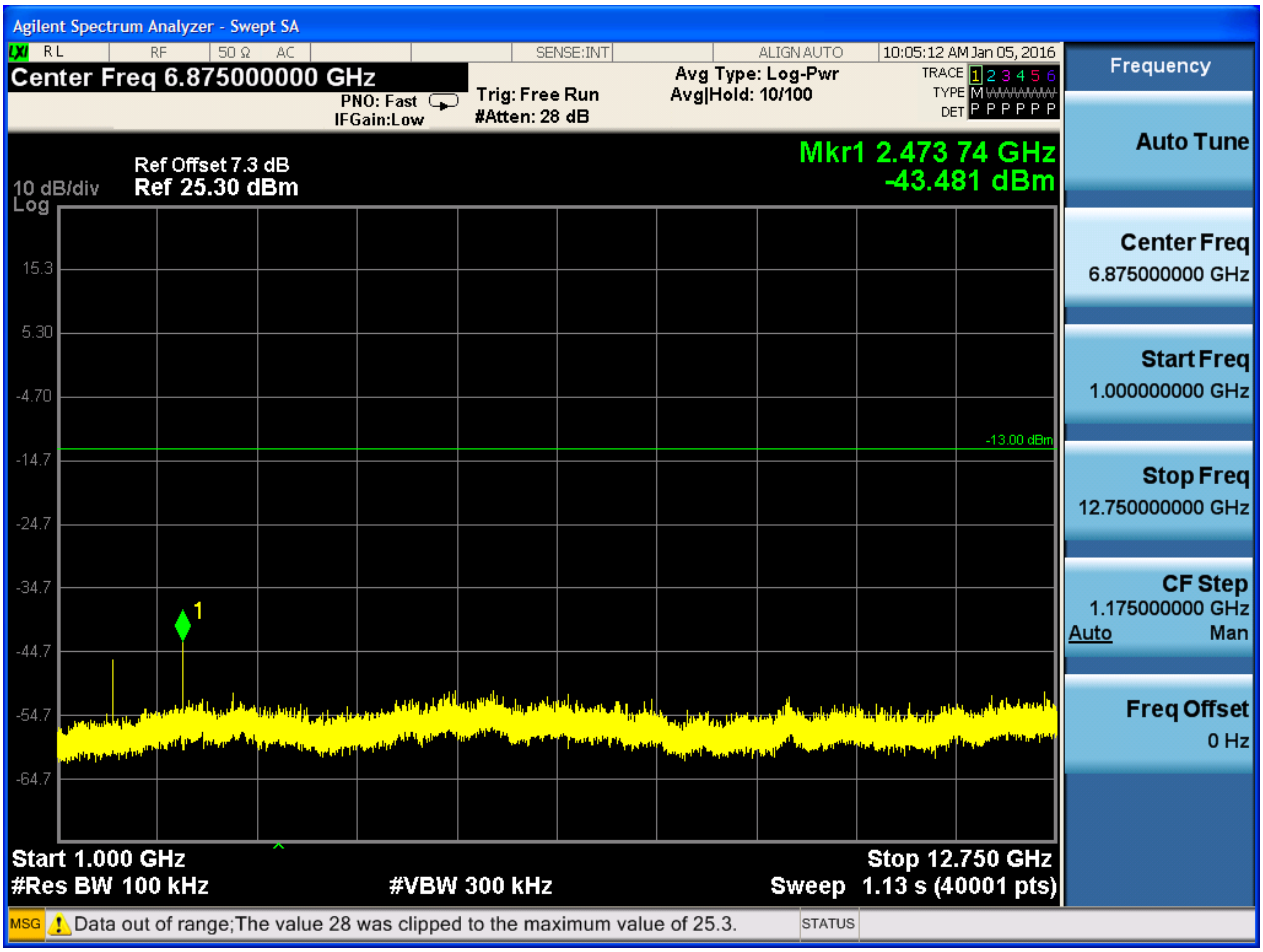

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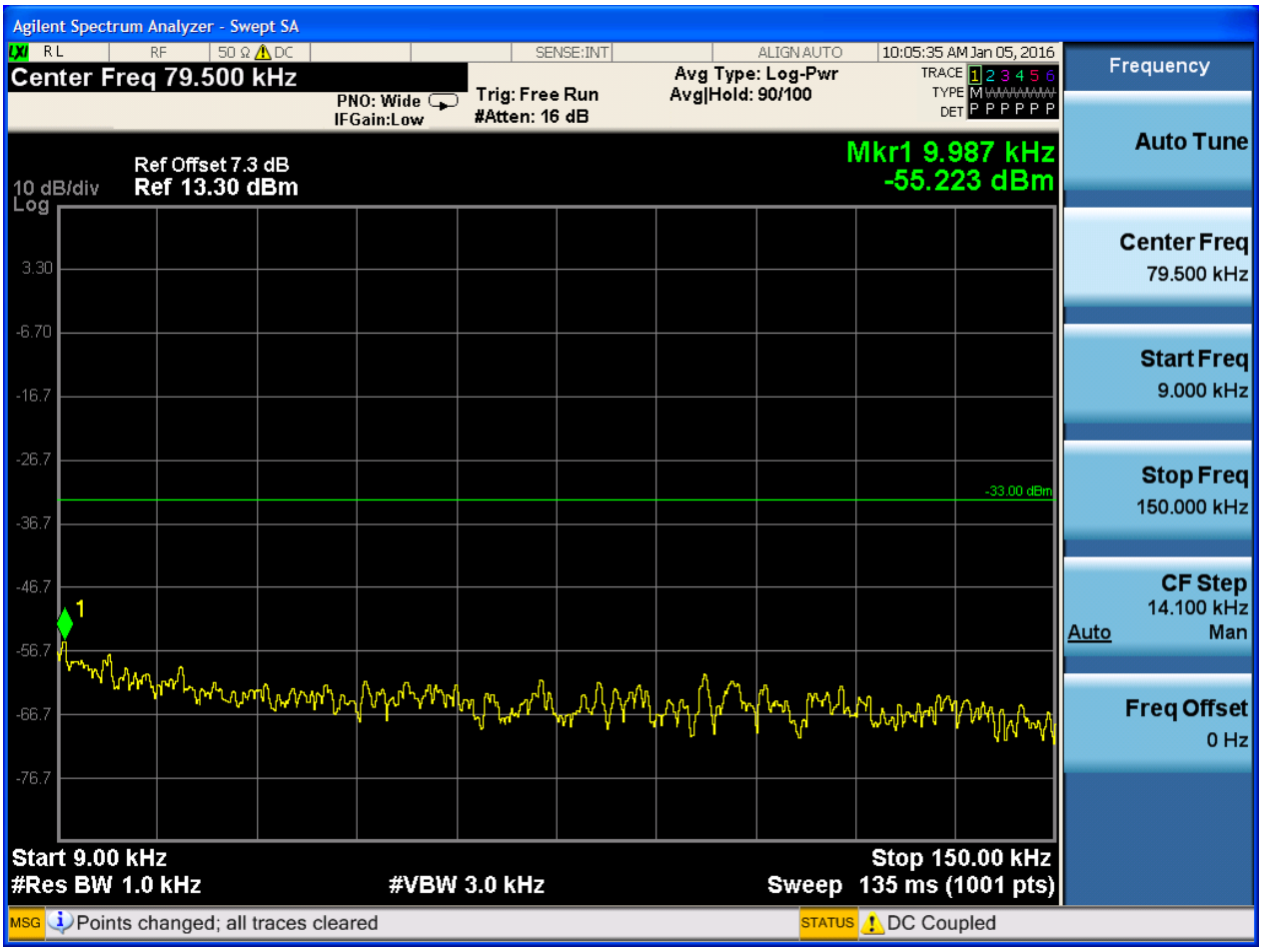
6.1.3.2.2.2 Test Channel = MCH

6.1.3.2.2.2.1 Test RB = RB1#0



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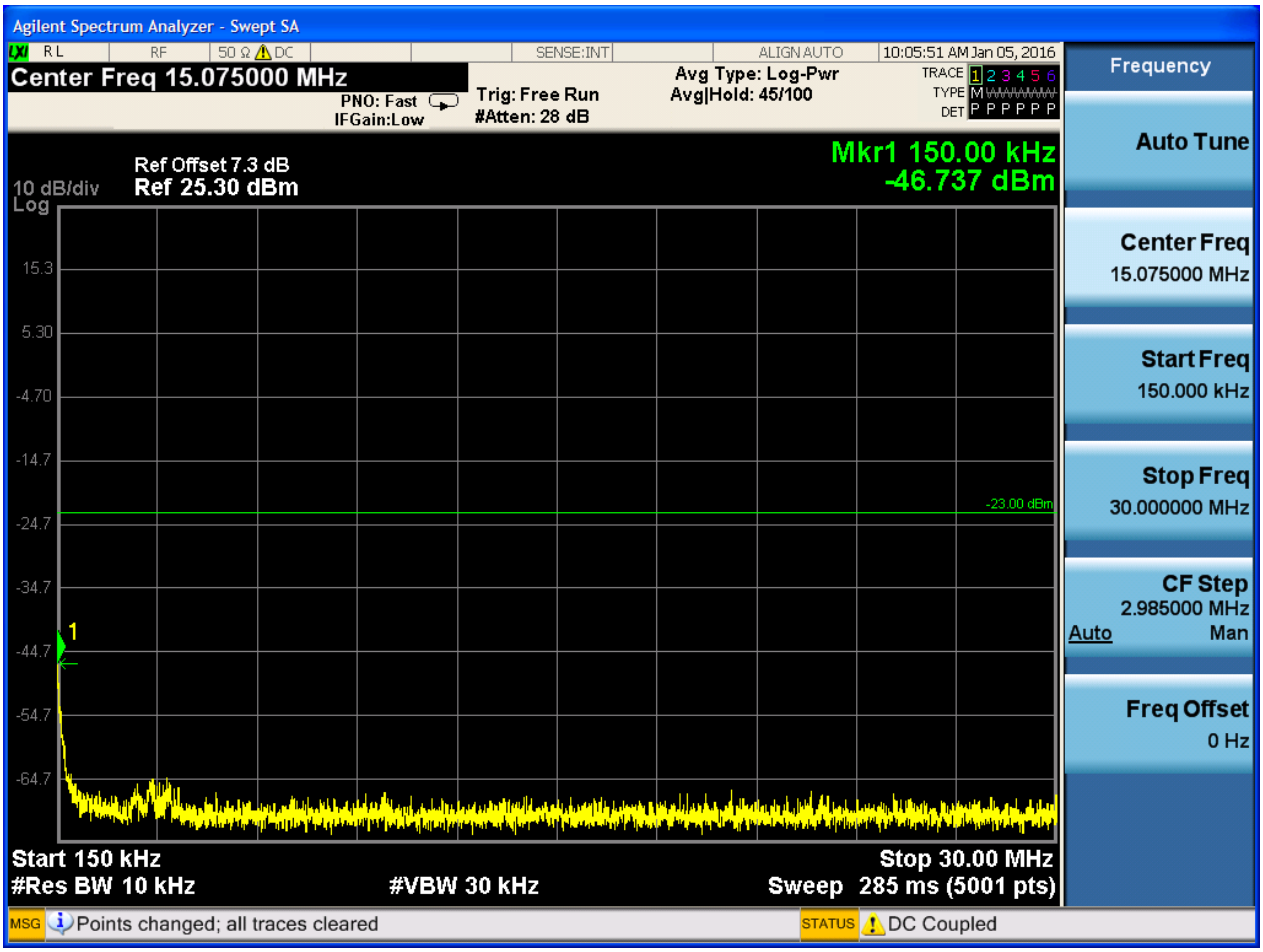

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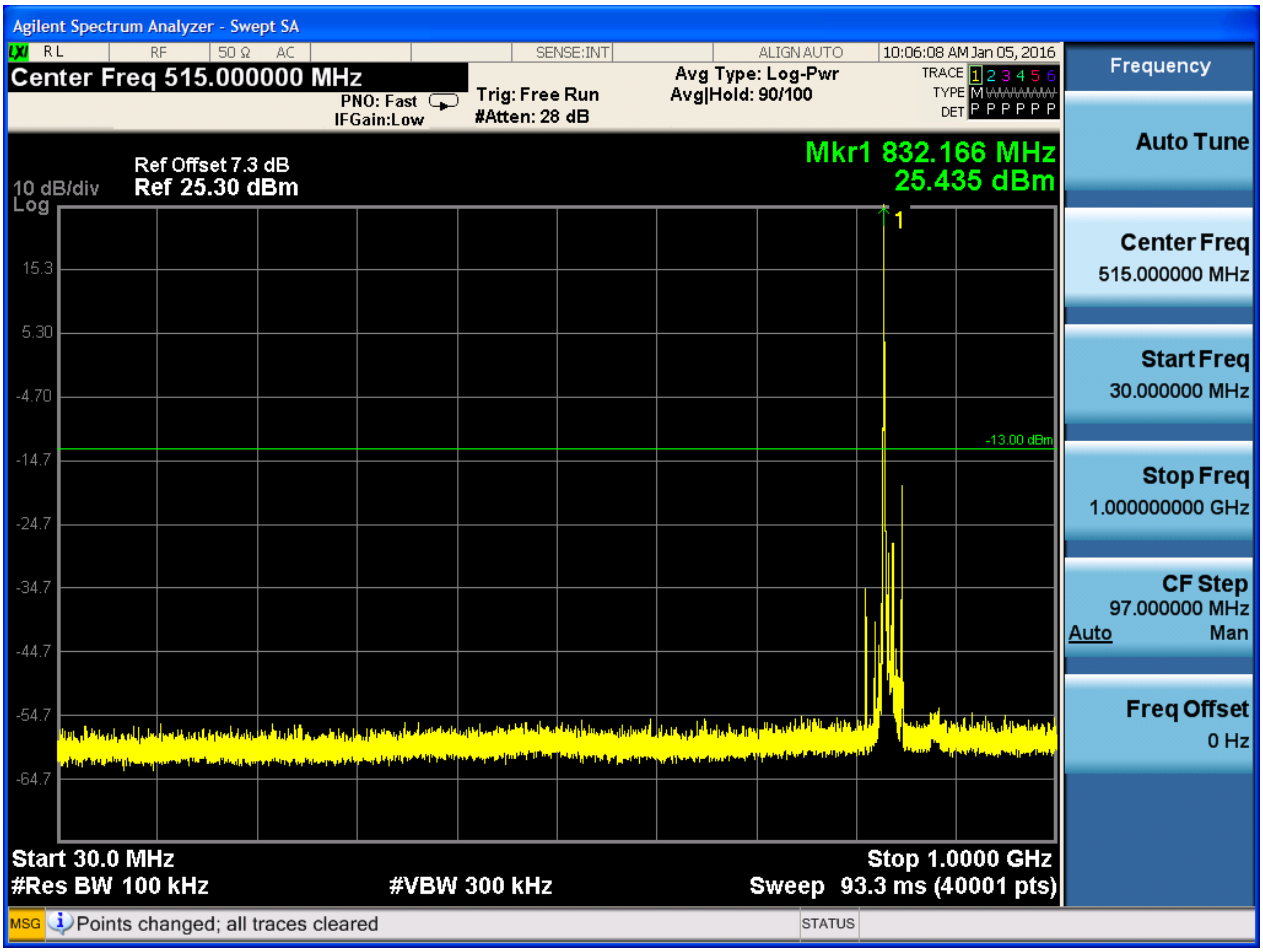

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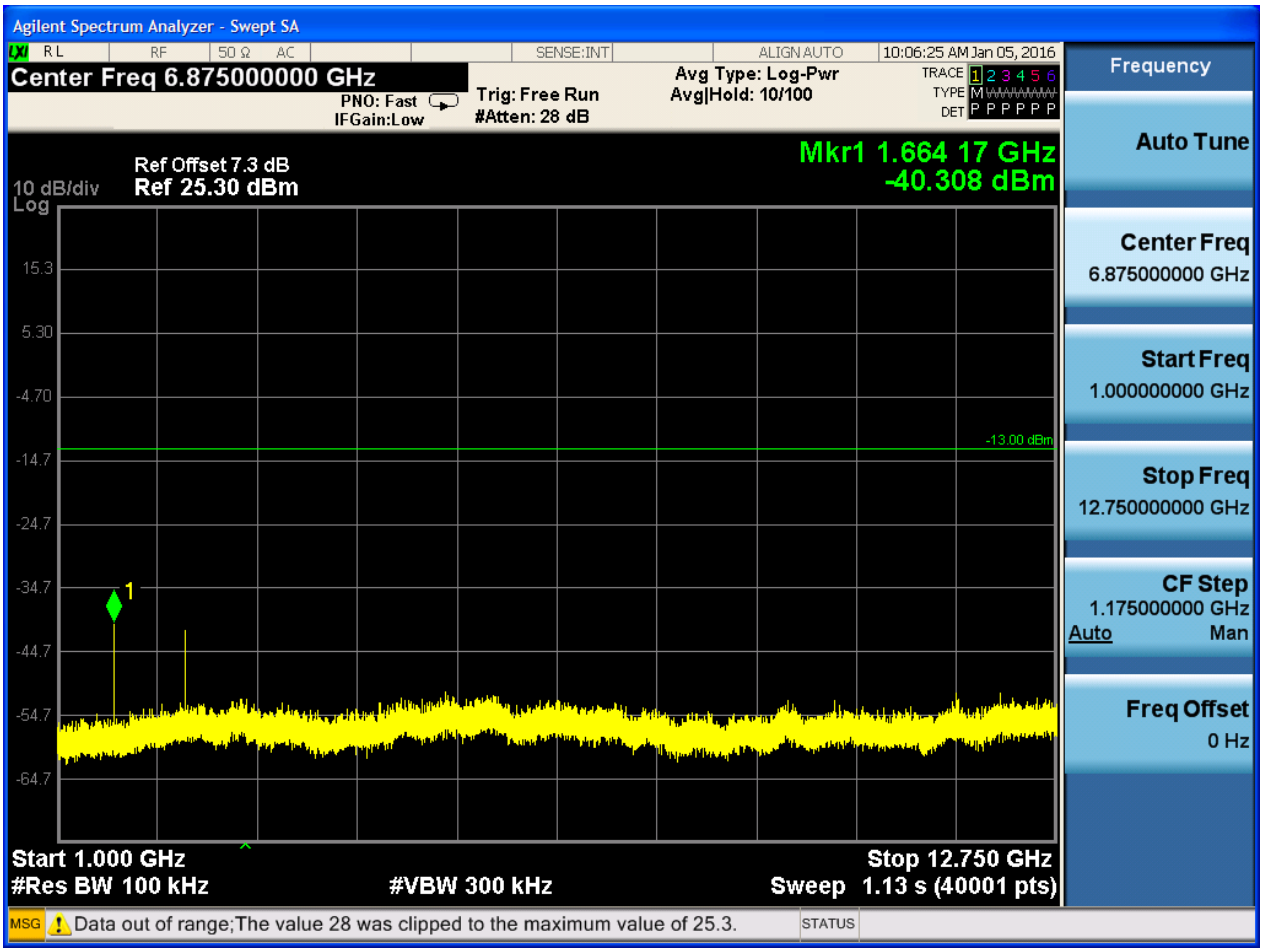

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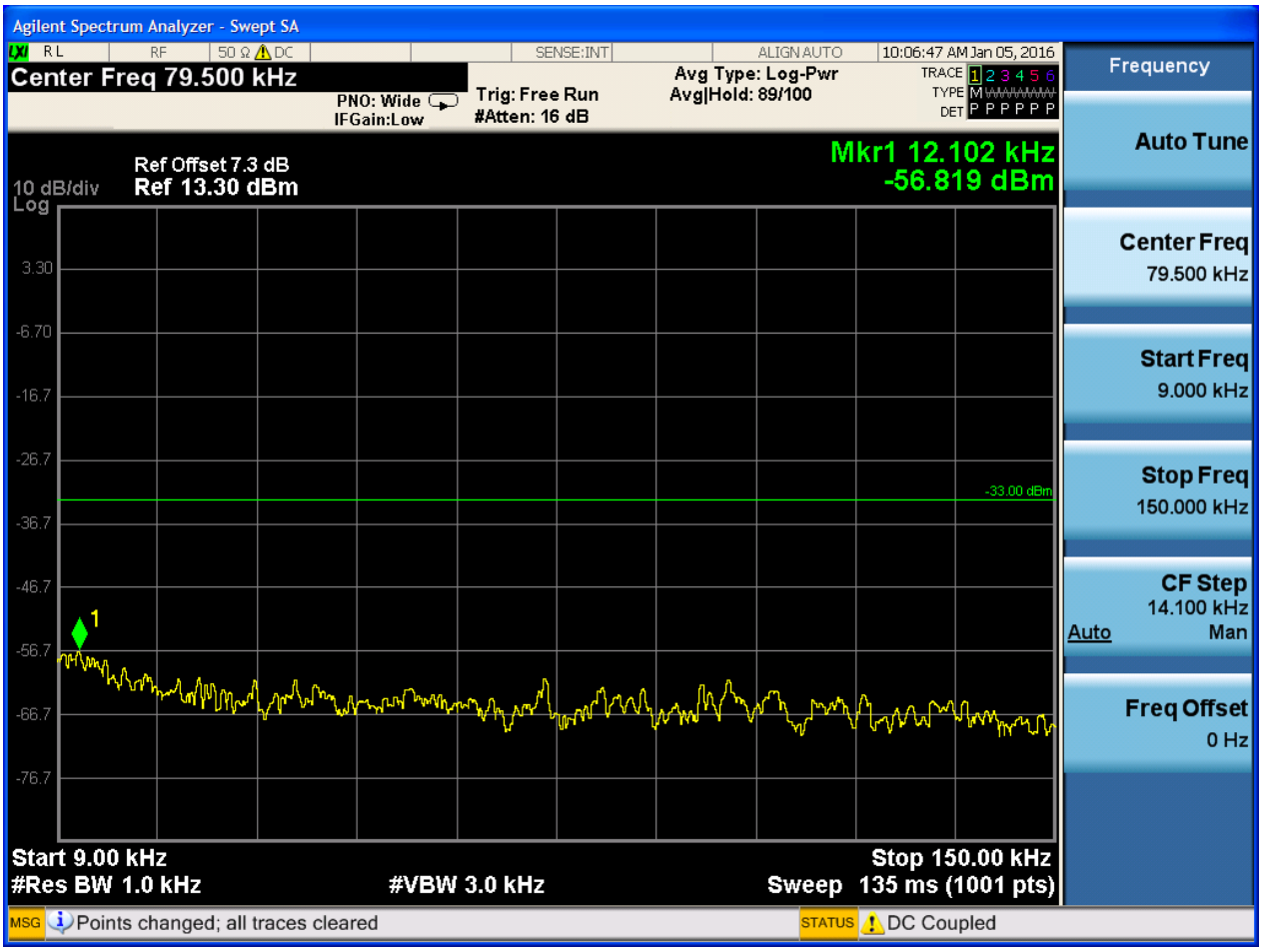
6.1.3.2.2.3 Test Channel = HCH

6.1.3.2.2.3.1 Test RB = RB1#0



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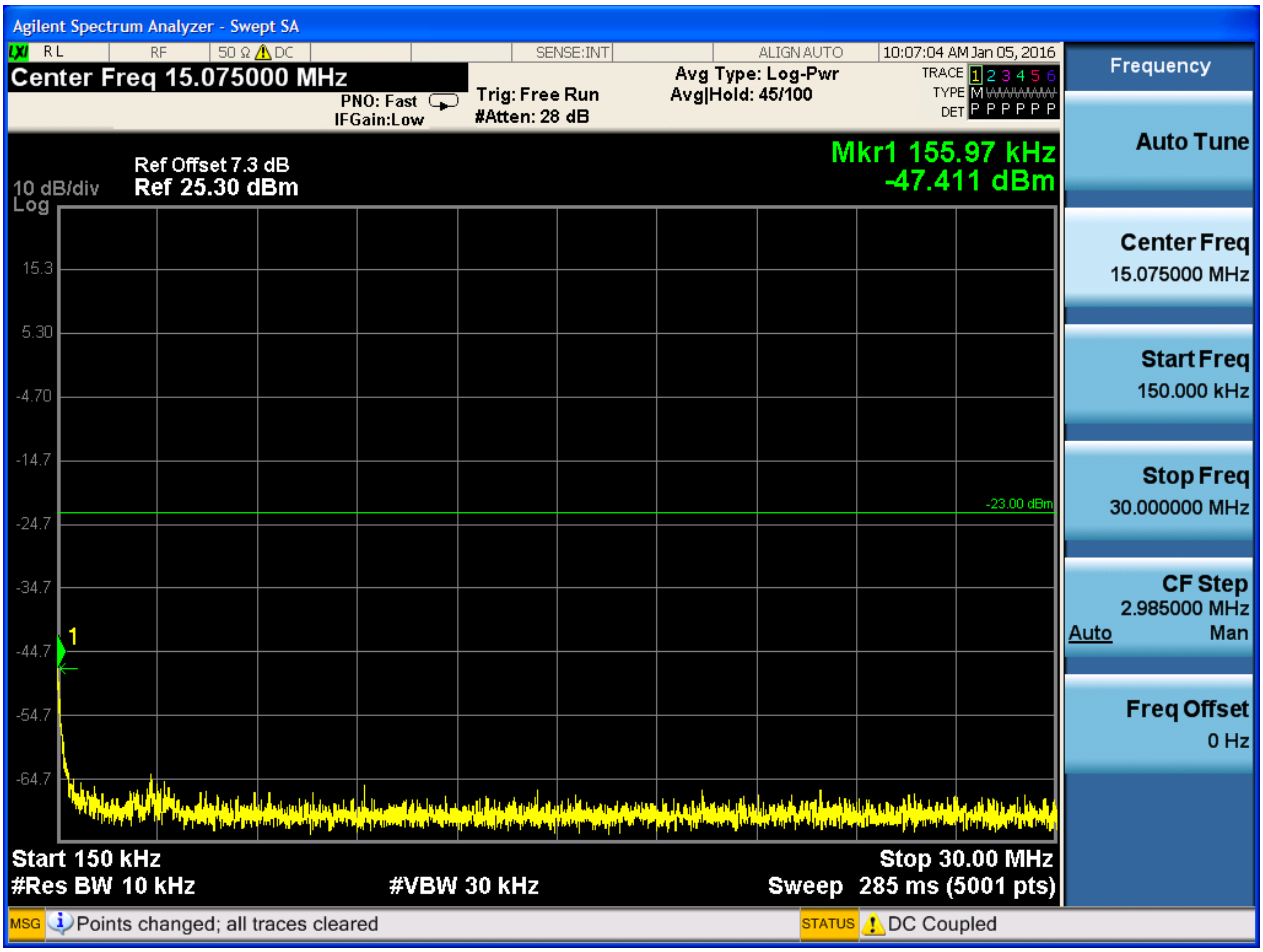

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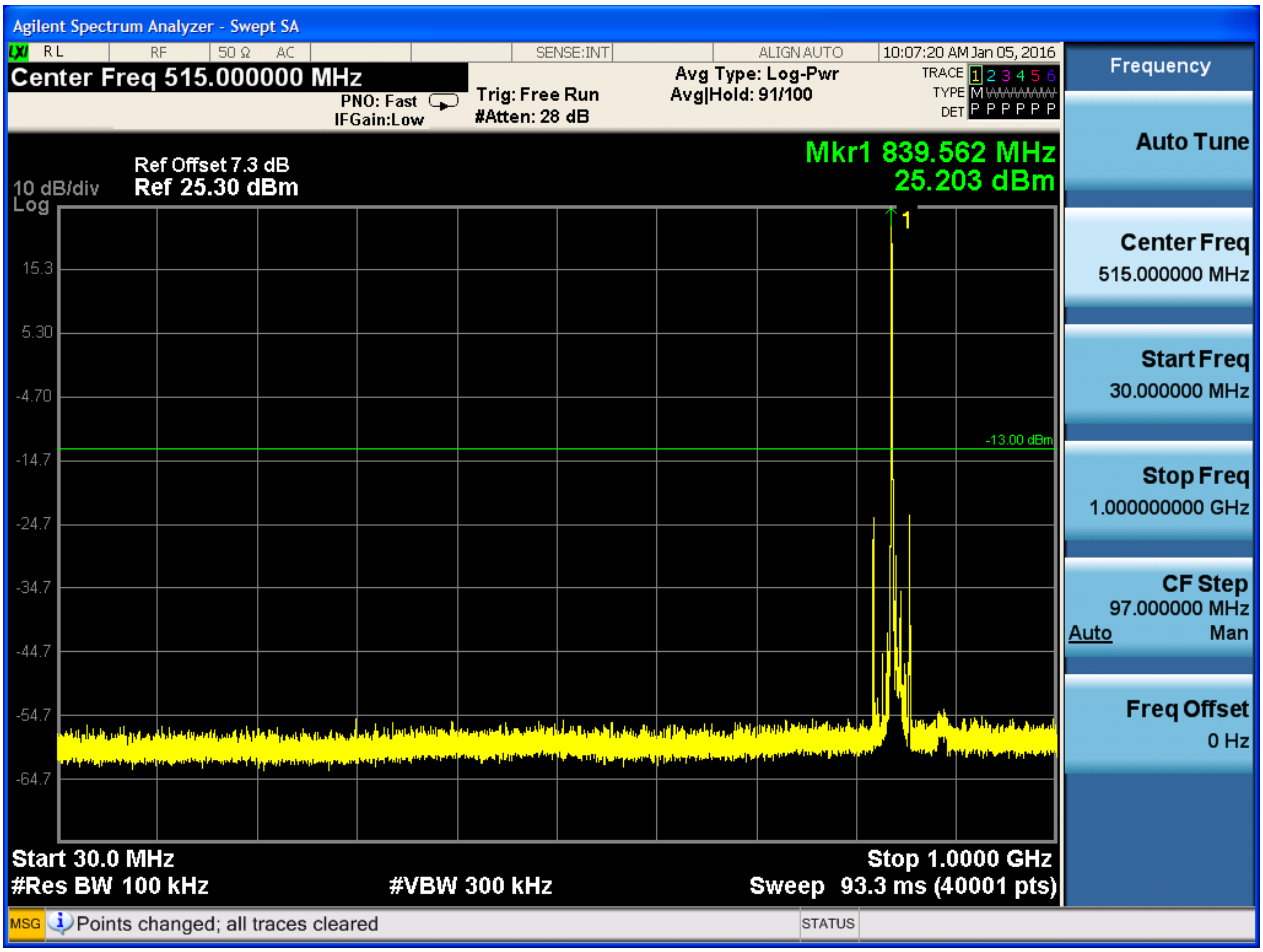

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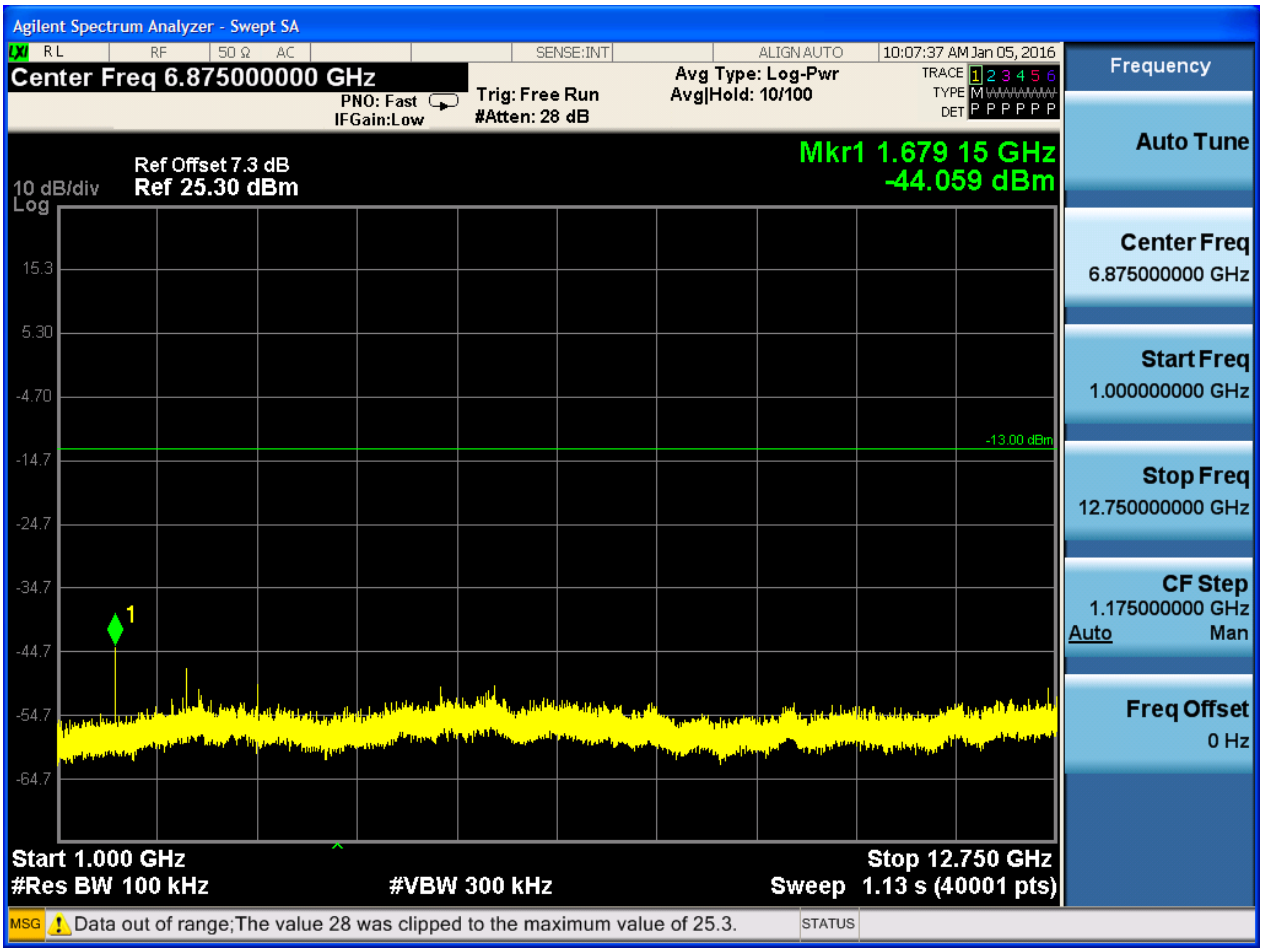

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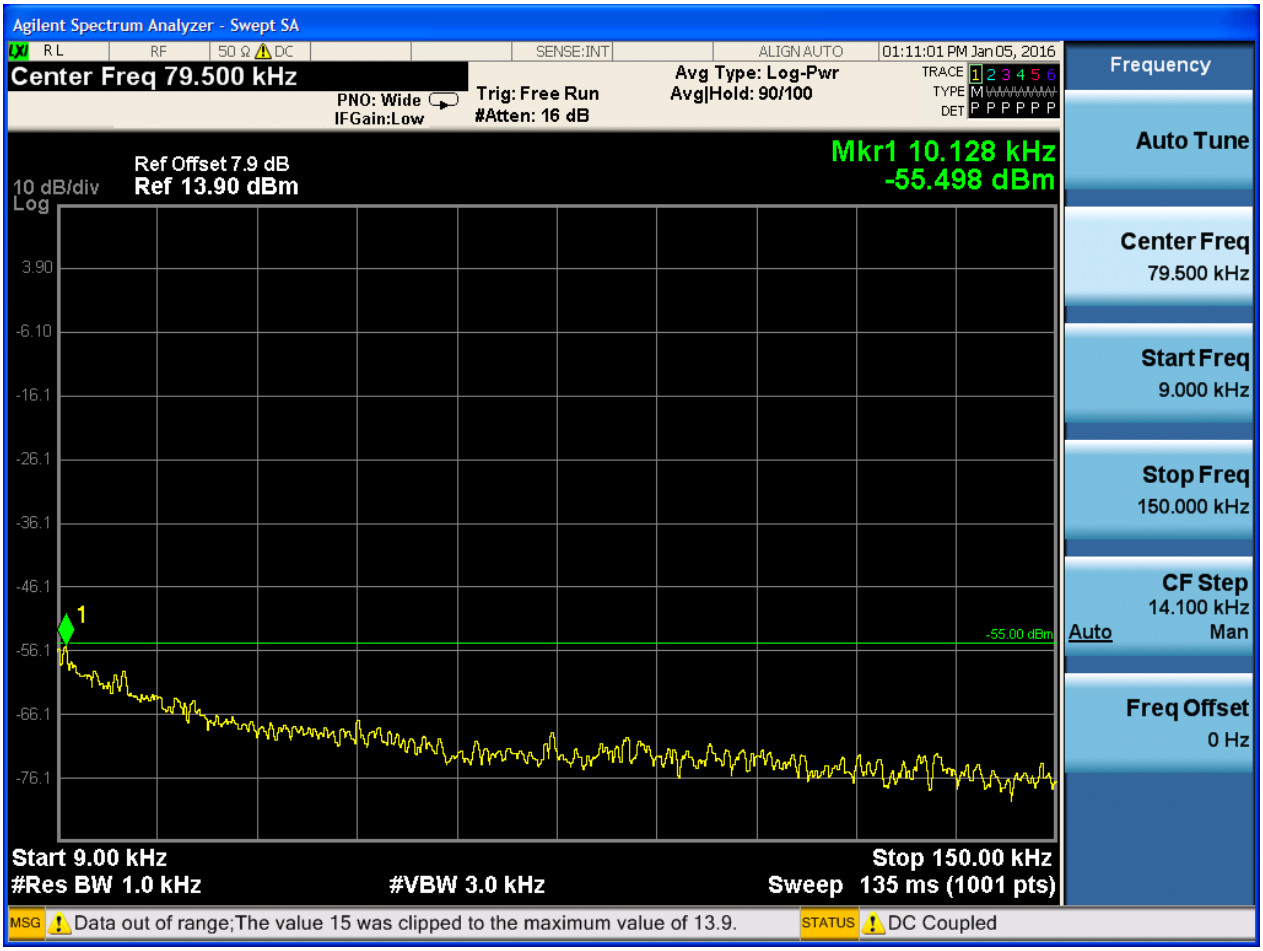
6.1.5 Test Band = BAND7

6.1.5.1 Test Mode = LTE/TM1

6.1.5.1.1 Test Bandwidth = 5

6.1.5.1.1.1 Test Channel = LCH

6.1.5.1.1.1.1 Test RB = RB1#0



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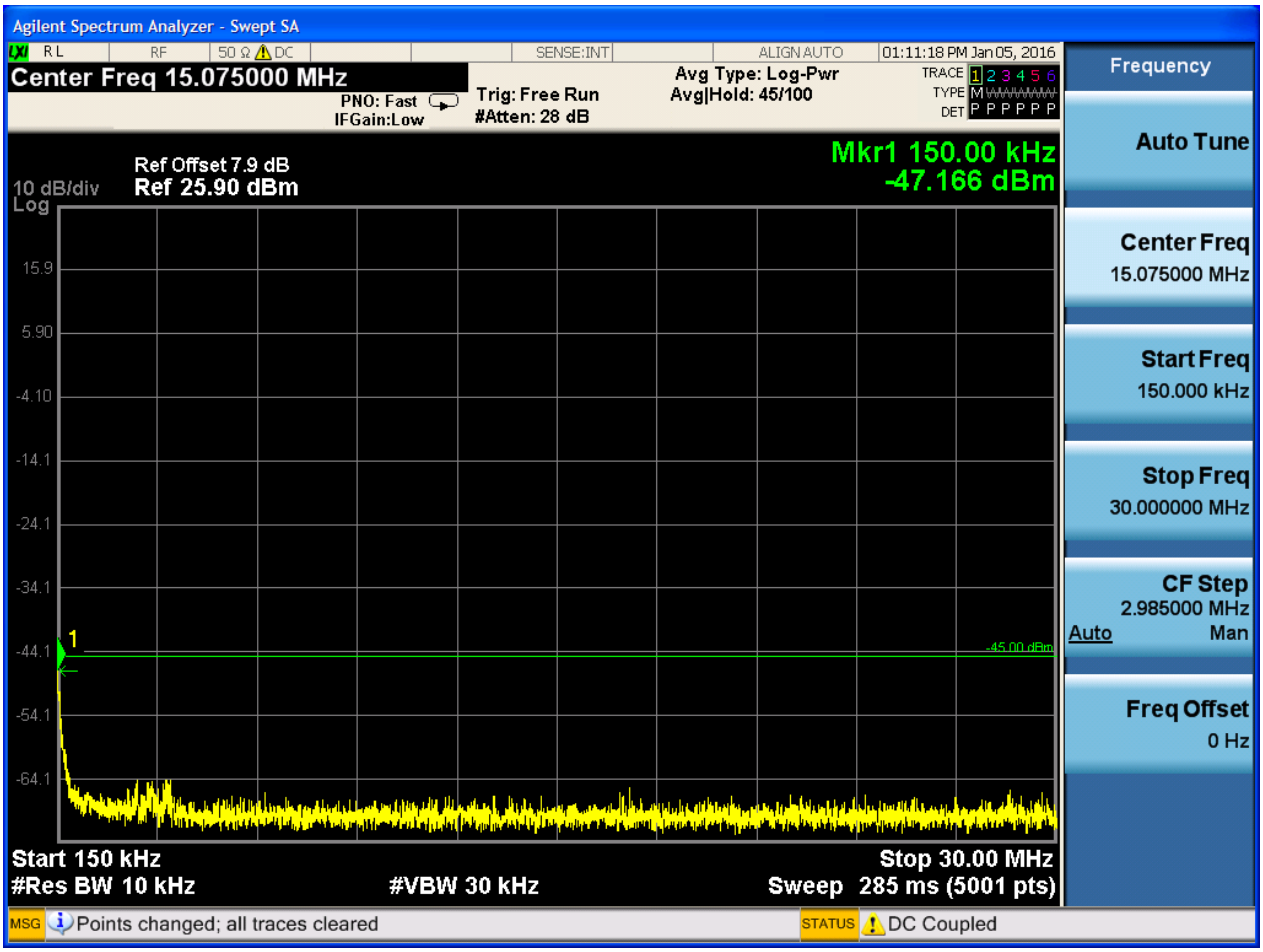

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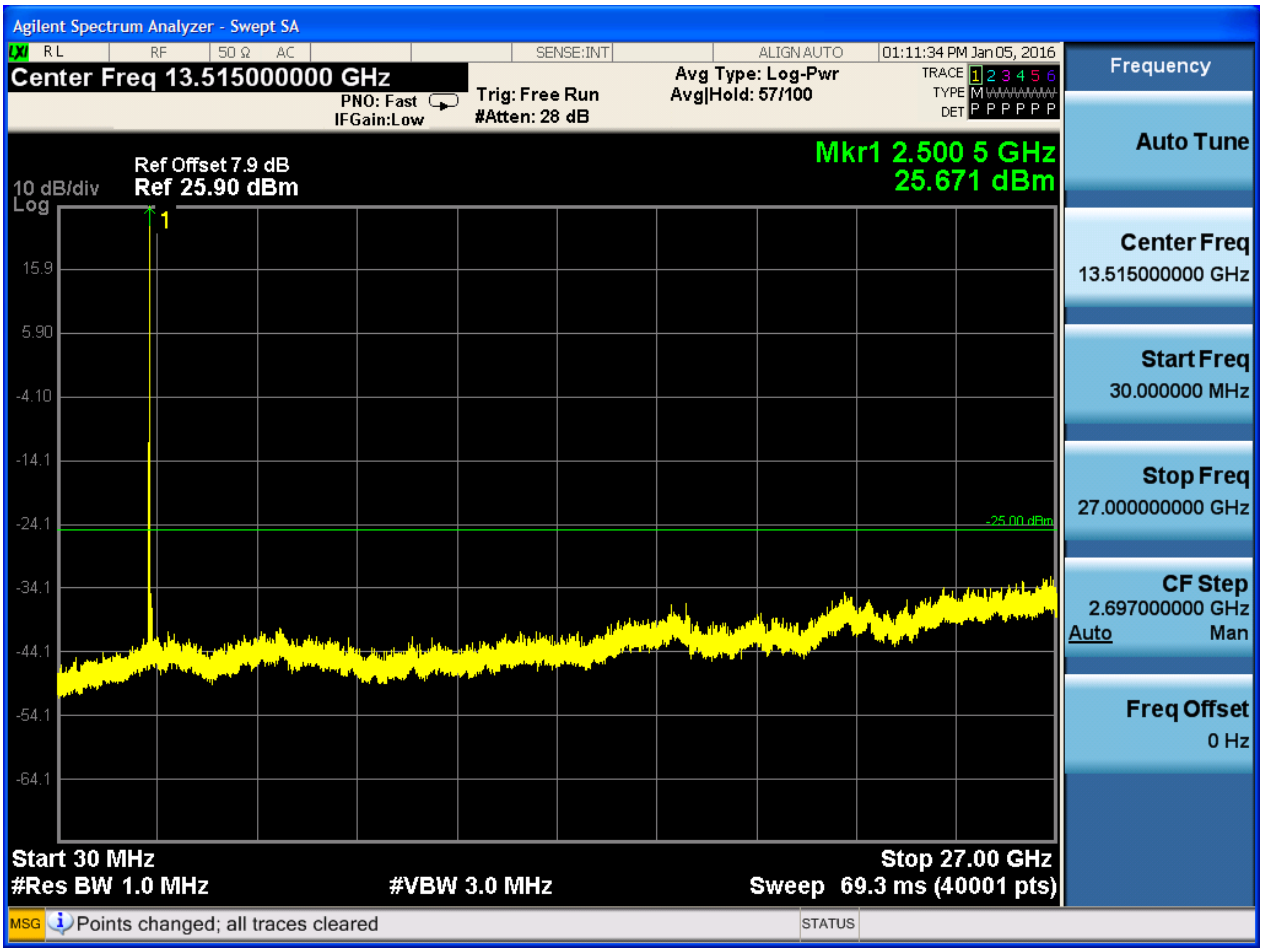

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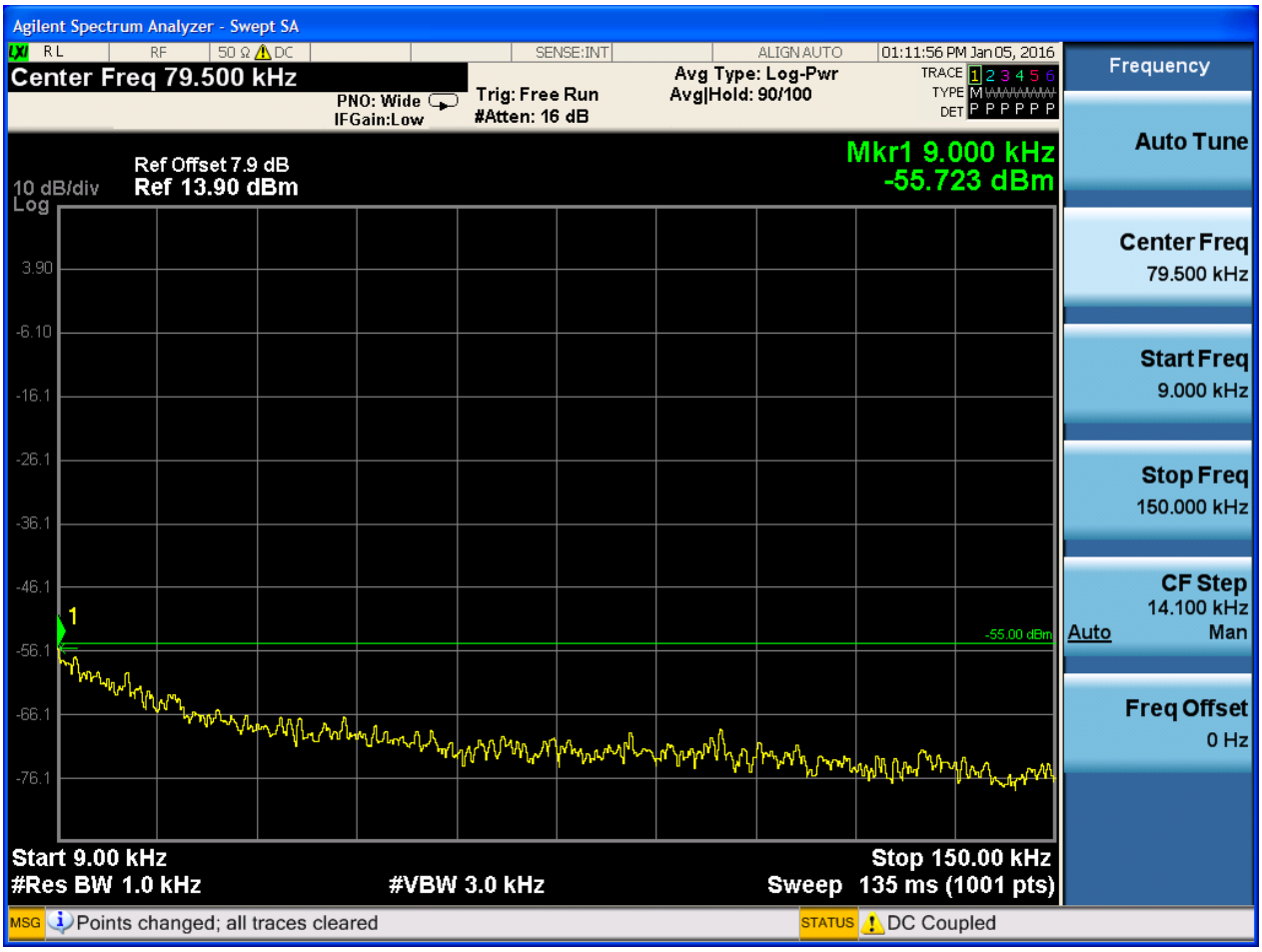
6.1.5.1.1.2 Test Channel = MCH

6.1.5.1.1.2.1 Test RB = RB1#0



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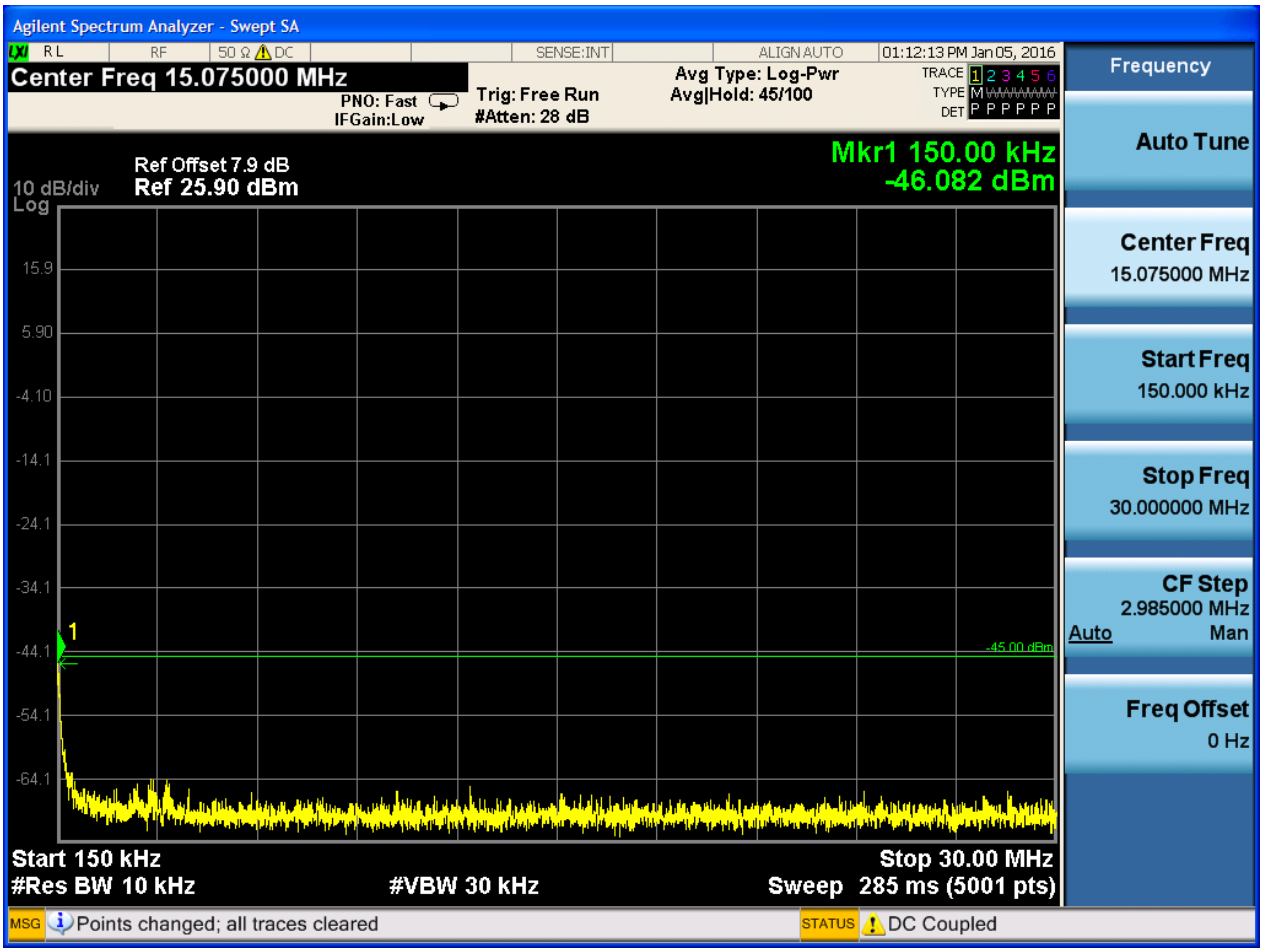

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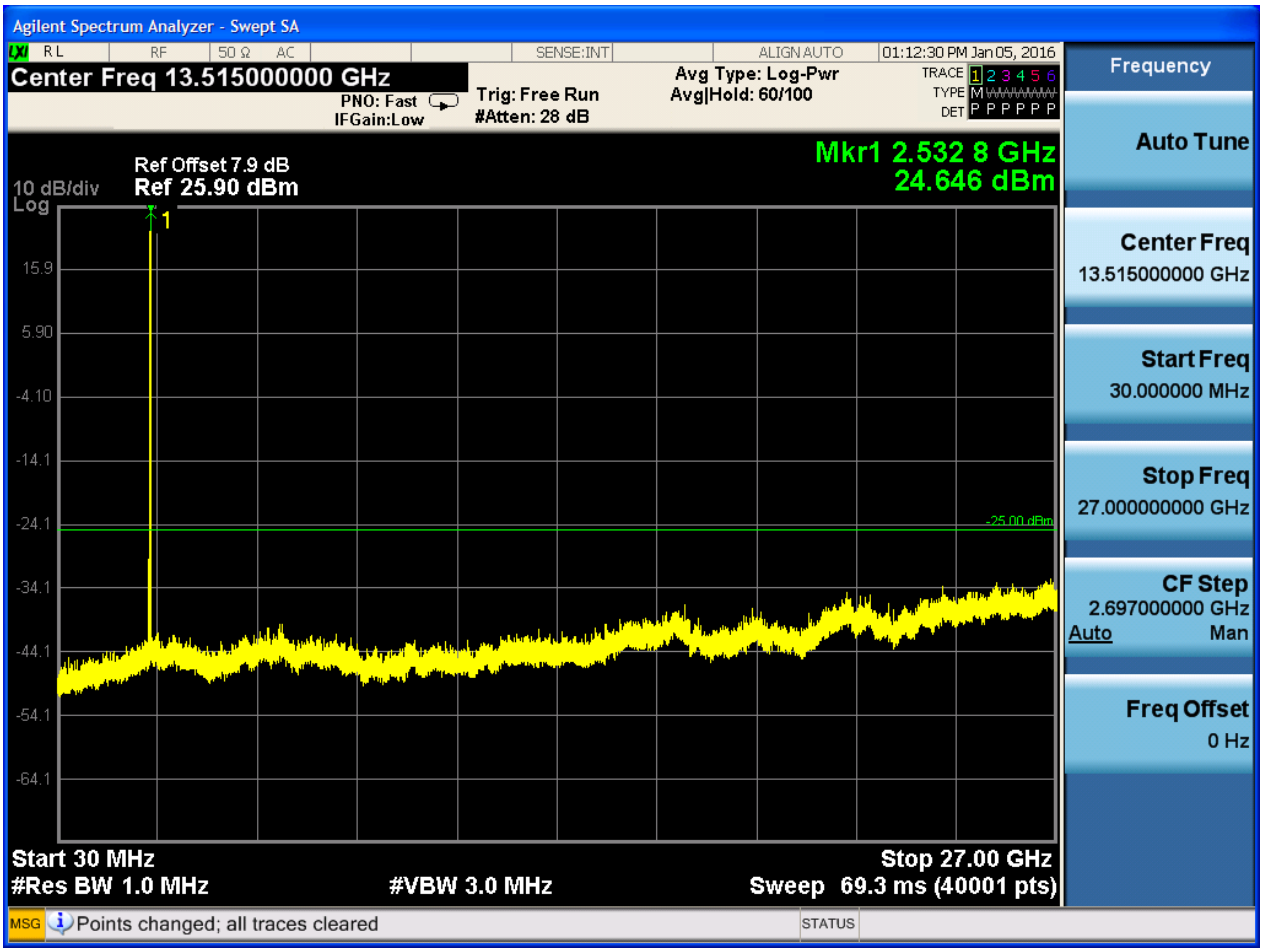
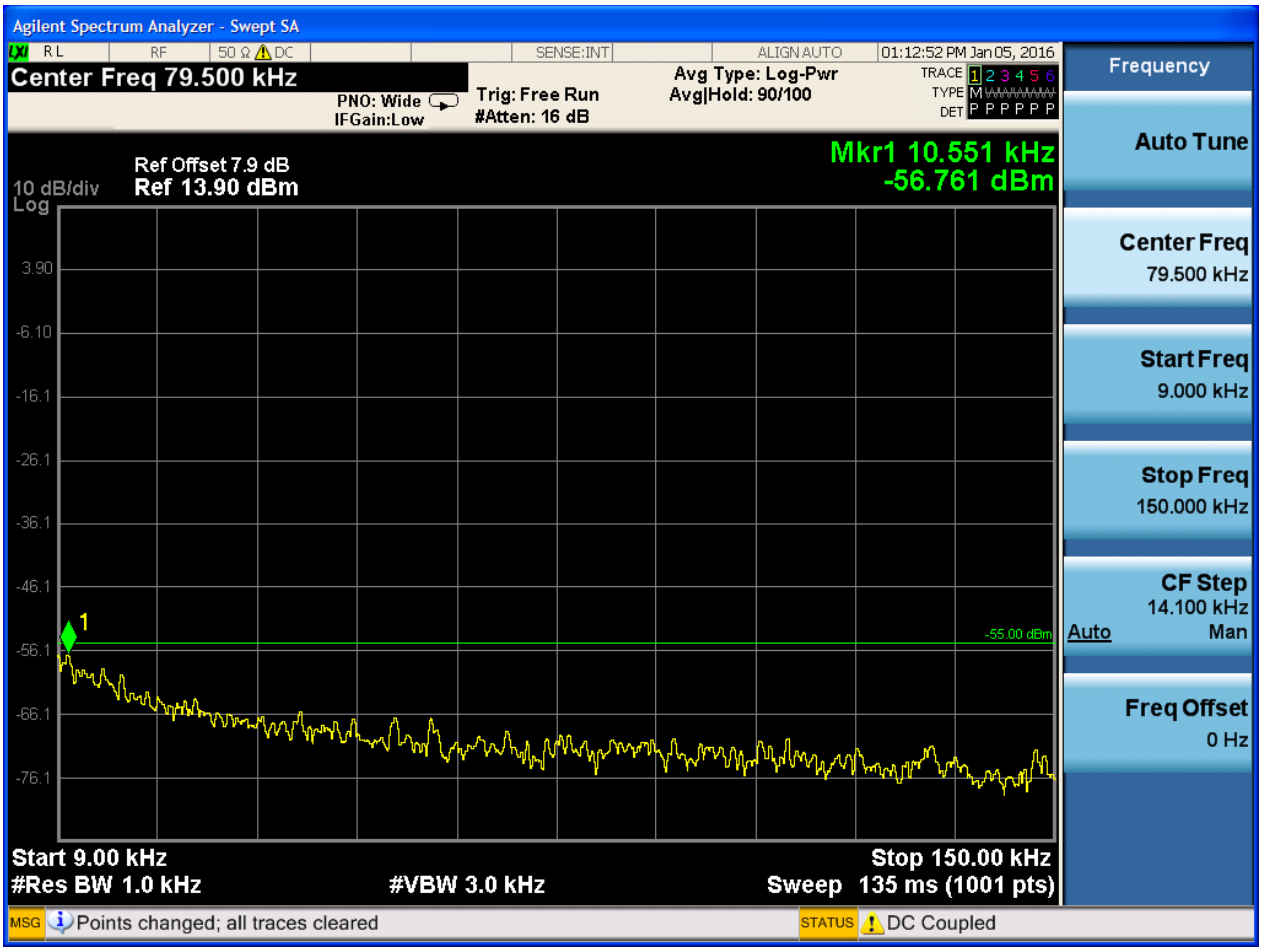

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 60/100
01:12:30 PM Jan 05, 2016
Ref Offset 7.9 dB
10 dB/div
Log
Ref 25.90 dBm
Mkr1 2.532 8 GHz
24.646 dBm
15.9
5.90
-4.10
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
-25.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

6.1.5.1.1.3 Test Channel = HCH

6.1.5.1.1.3.1 Test RB = RB1#0



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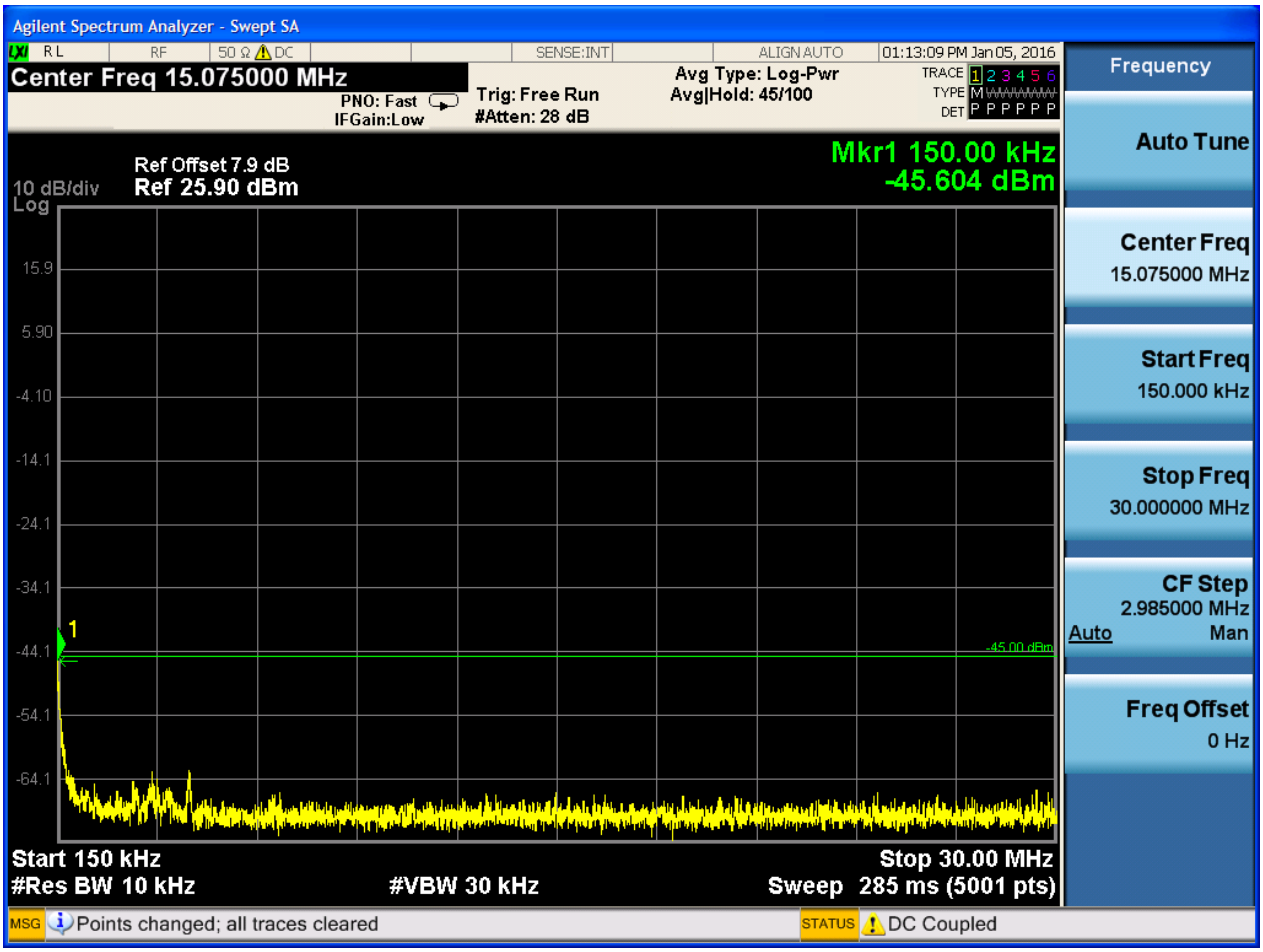

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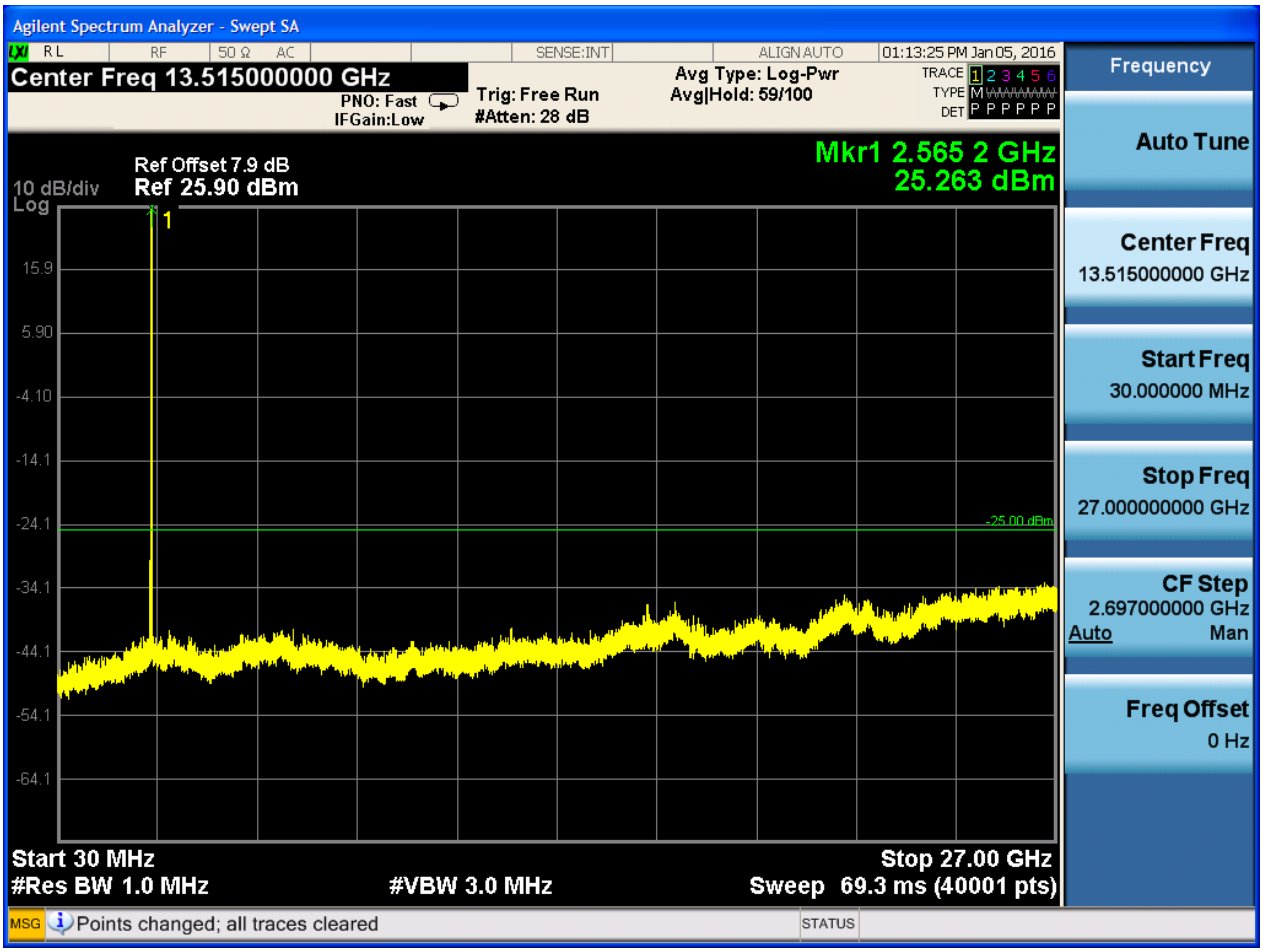

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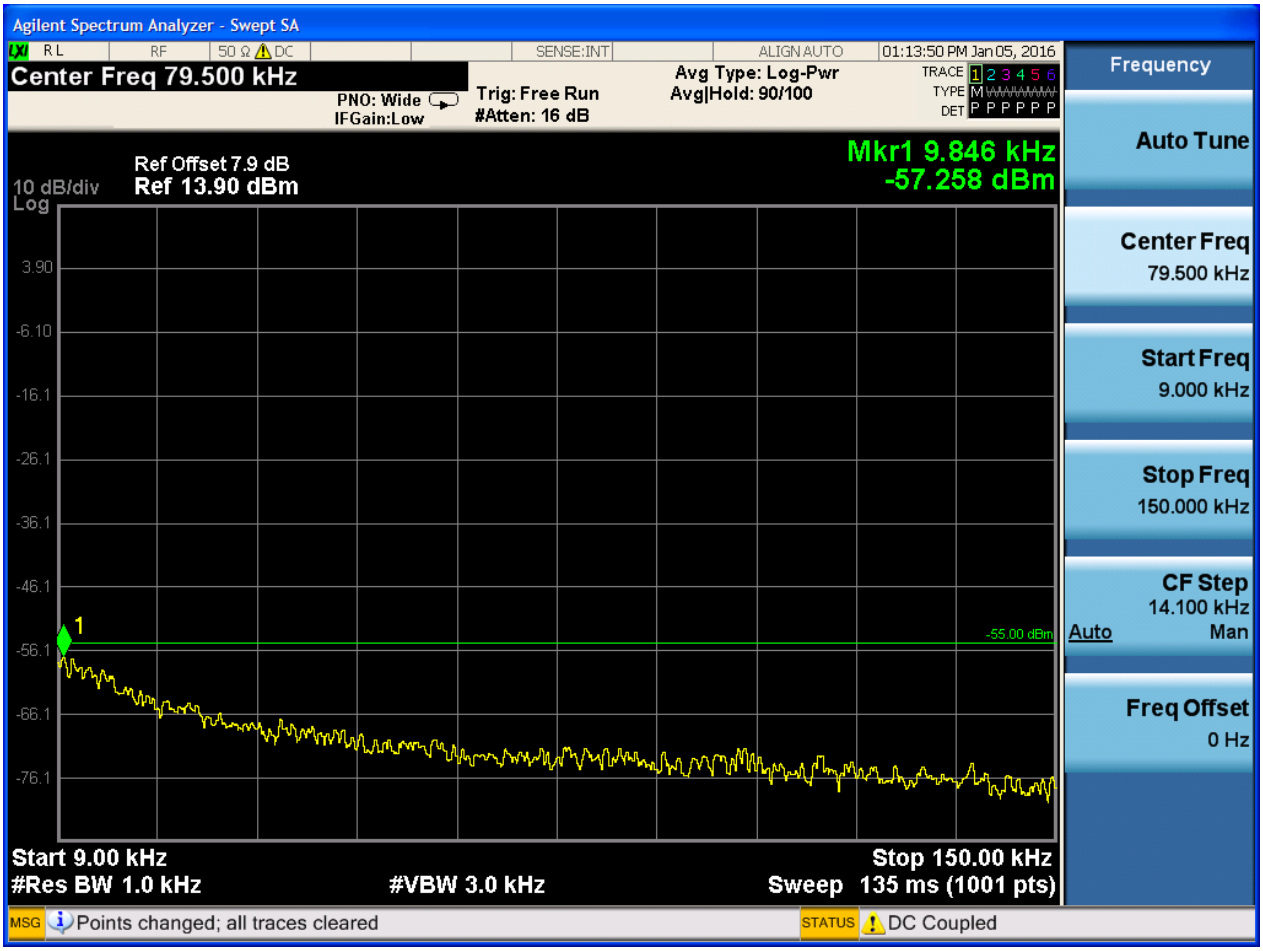
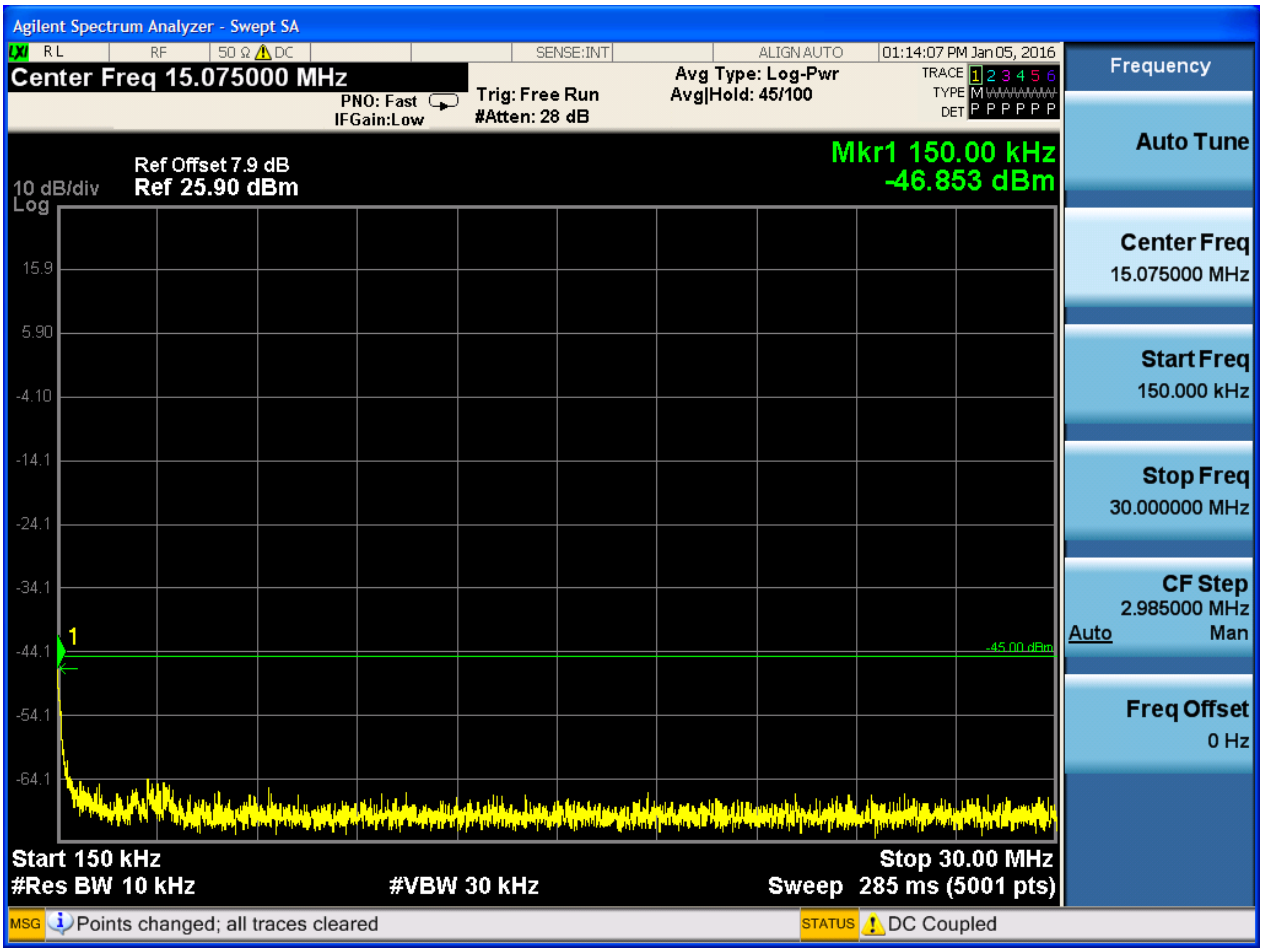
6.1.5.1.2 Test Bandwidth = 10

6.1.5.1.2.1 Test Channel = LCH

6.1.5.1.2.1.1 Test RB = RB1#0



Copyright © Huawei Technologies Co., Ltd.



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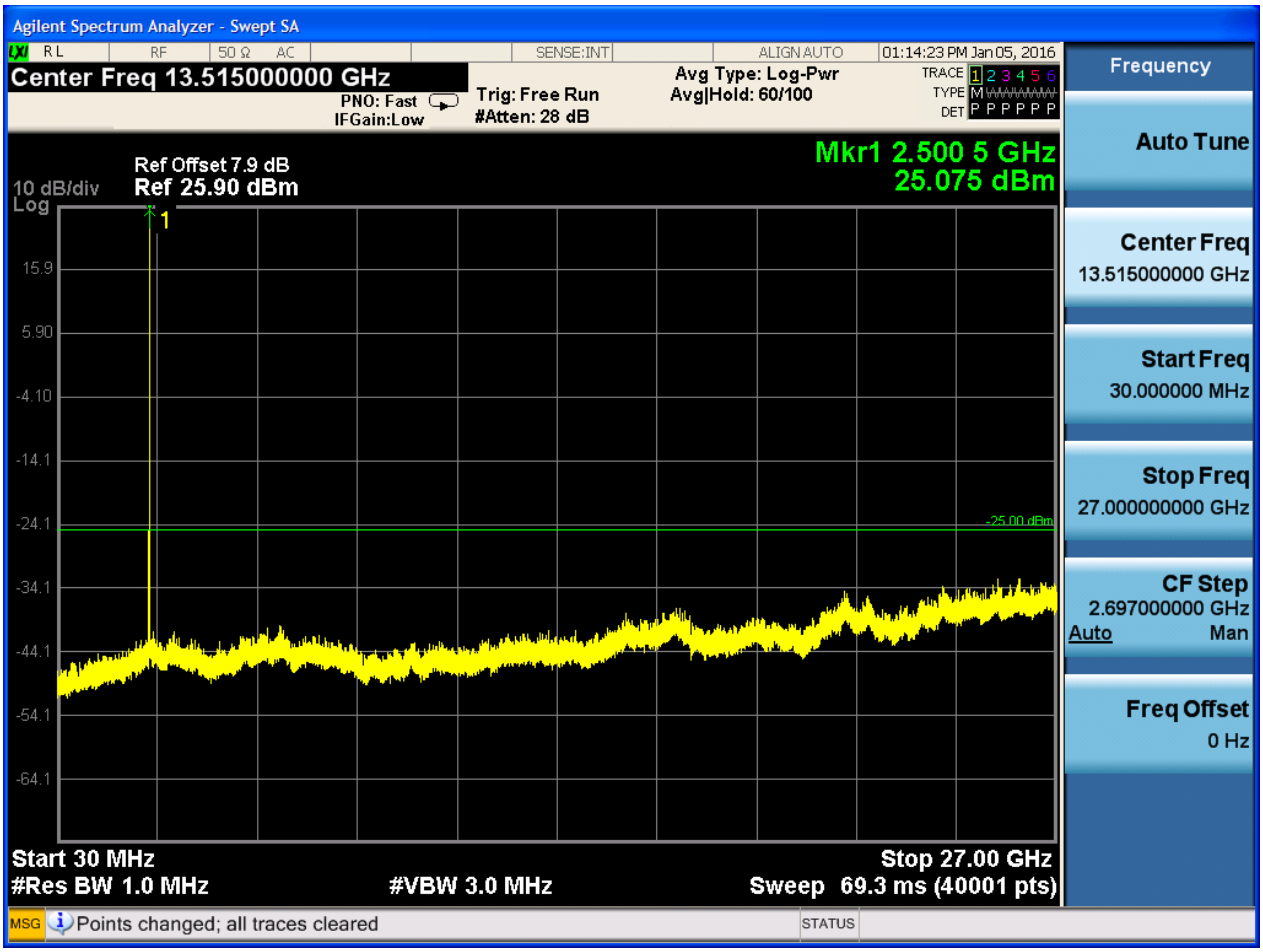

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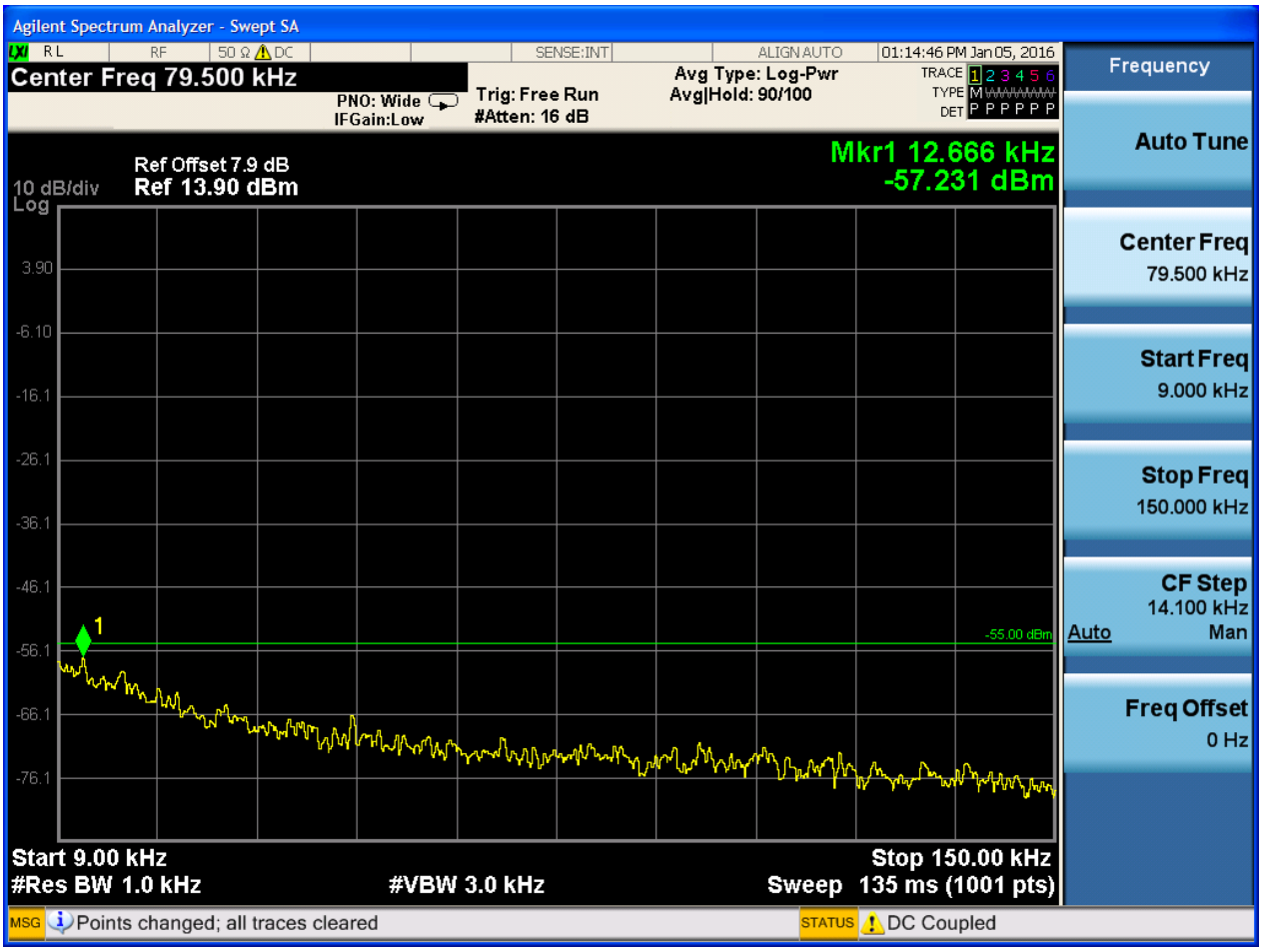
6.1.5.1.2.2 Test Channel = MCH

6.1.5.1.2.2.1 Test RB = RB1#0



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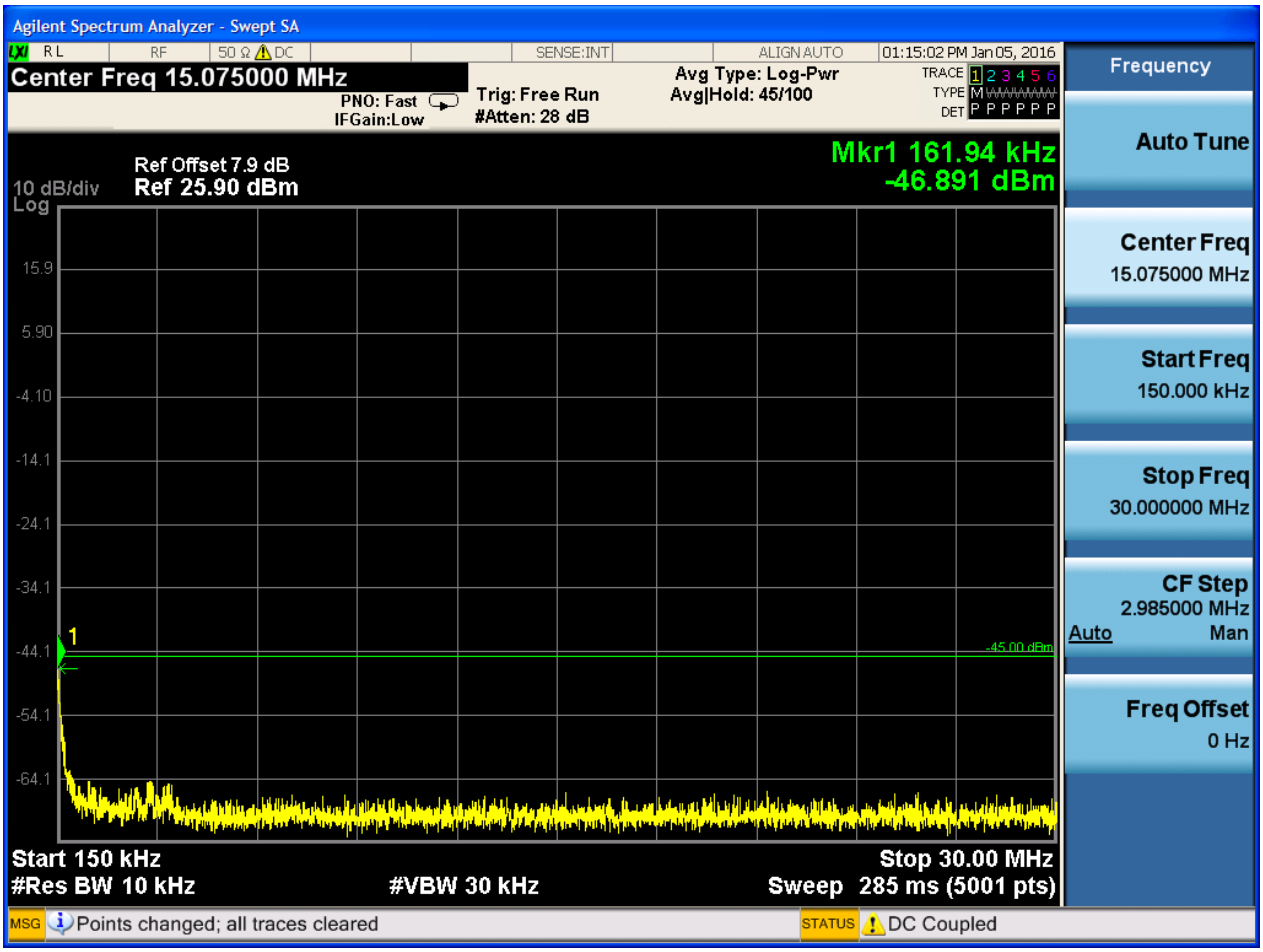

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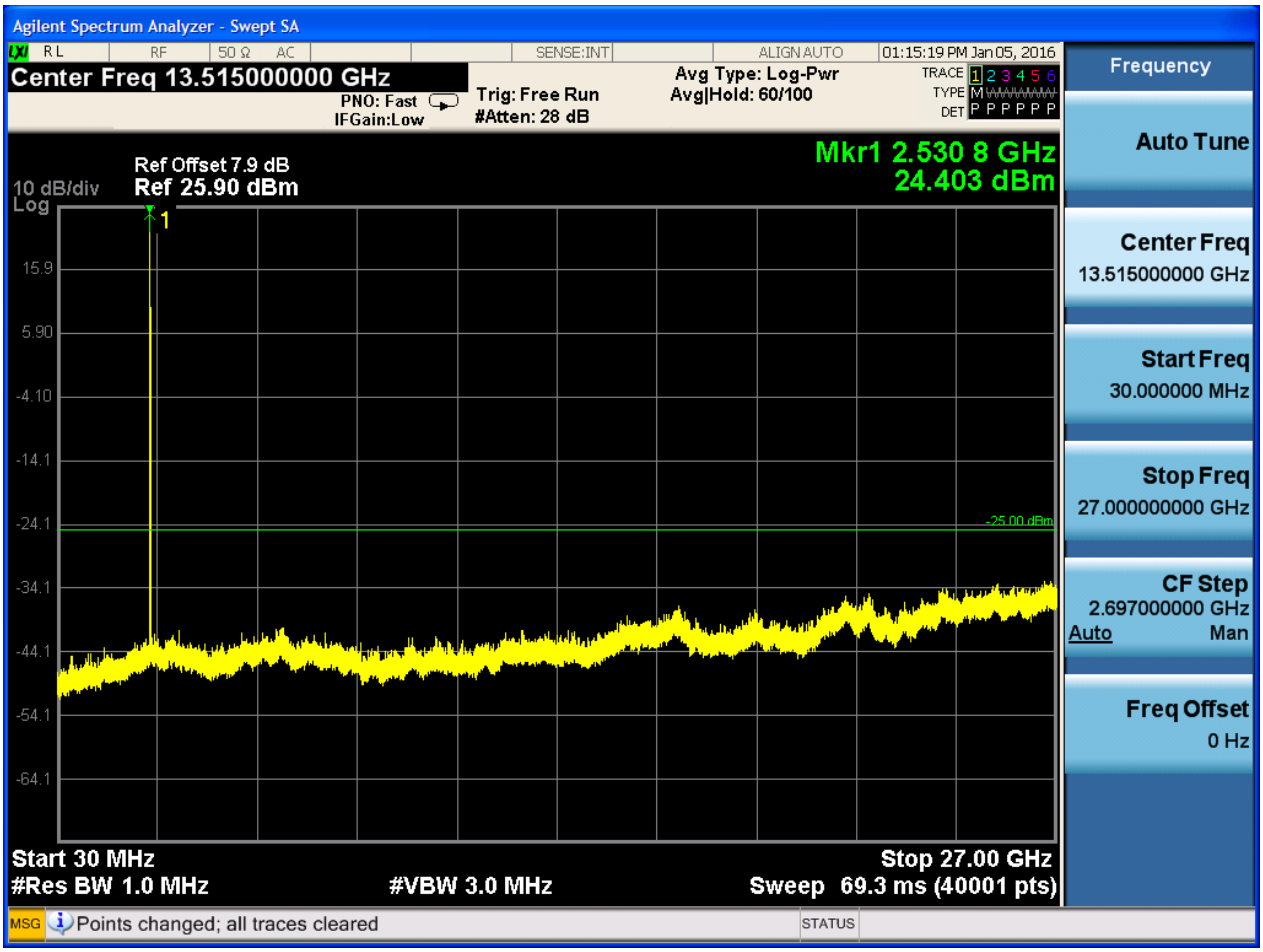

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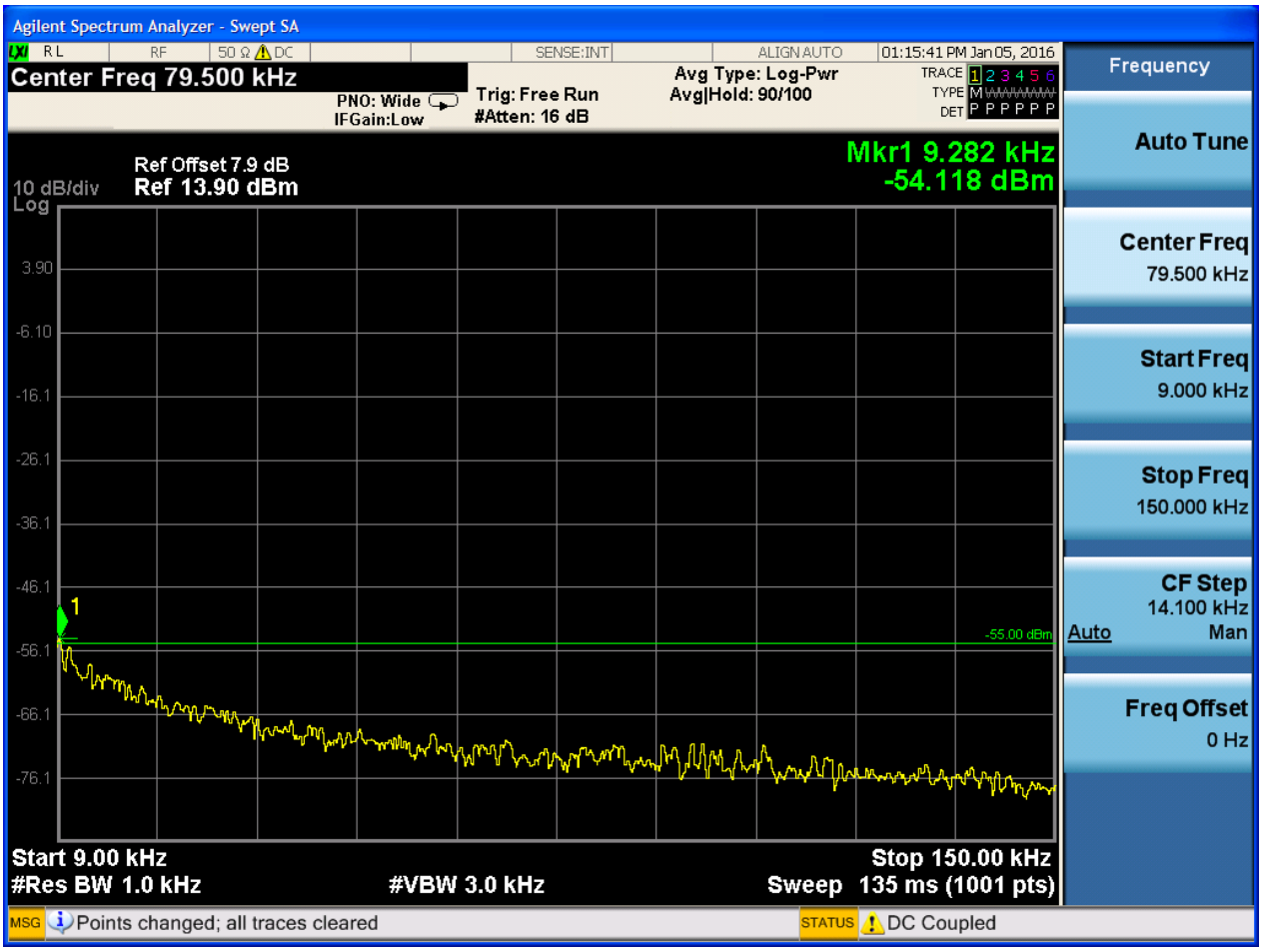
6.1.5.1.2.3 Test Channel = HCH

6.1.5.1.2.3.1 Test RB = RB1#0



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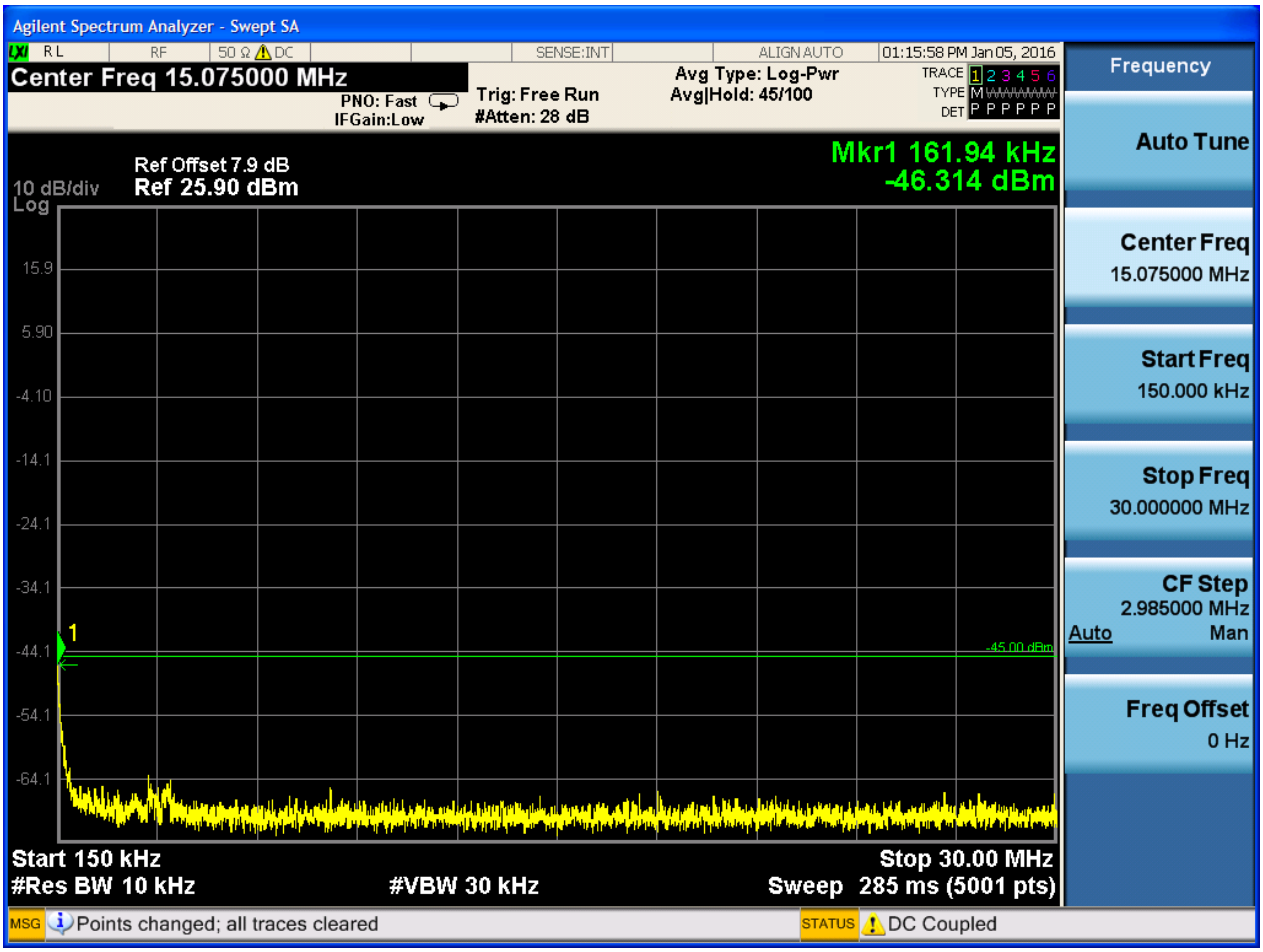

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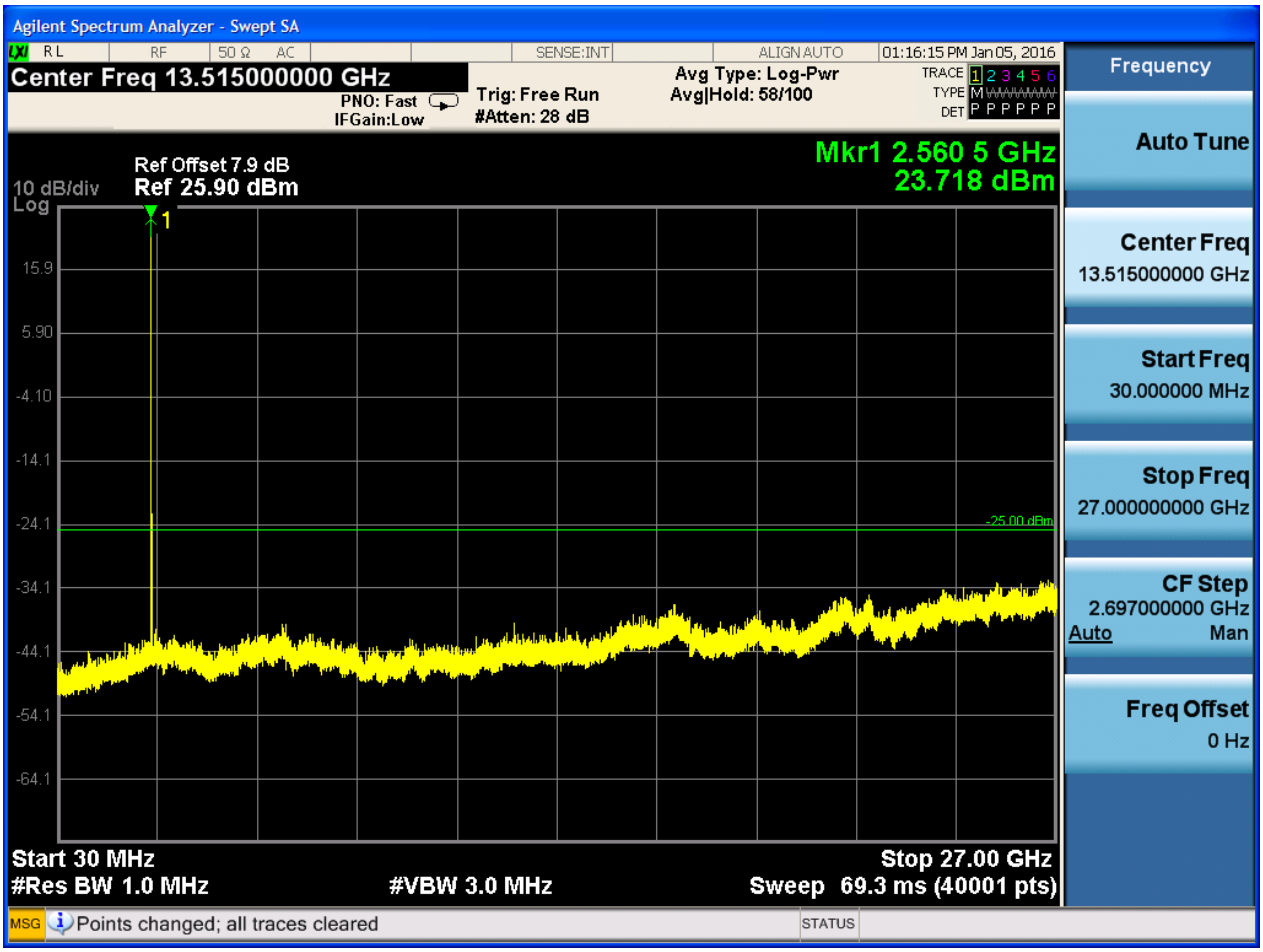

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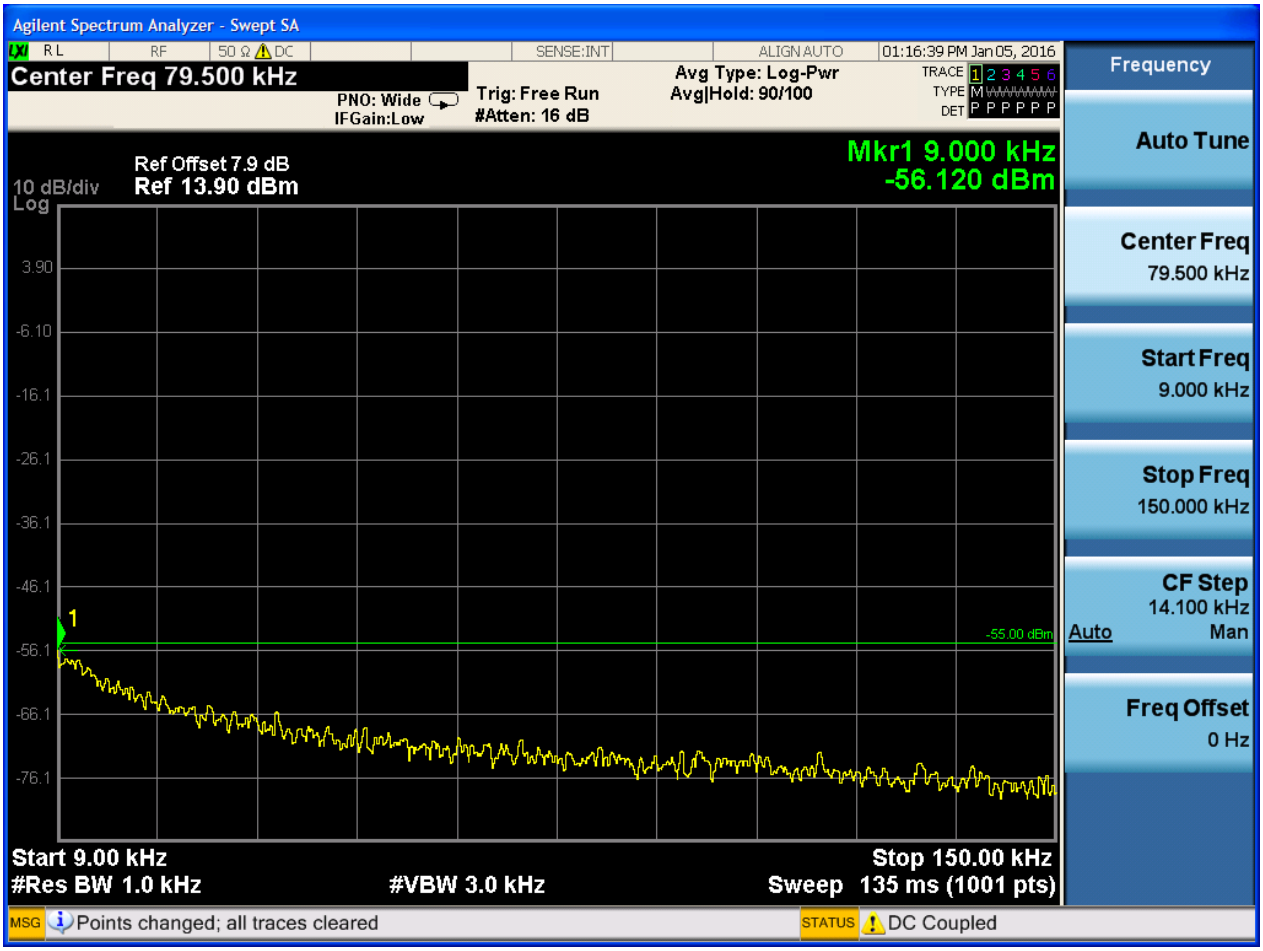
6.1.5.1.3 Test Bandwidth = 15

6.1.5.1.3.1 Test Channel = LCH

6.1.5.1.3.1.1 Test RB = RB1#0



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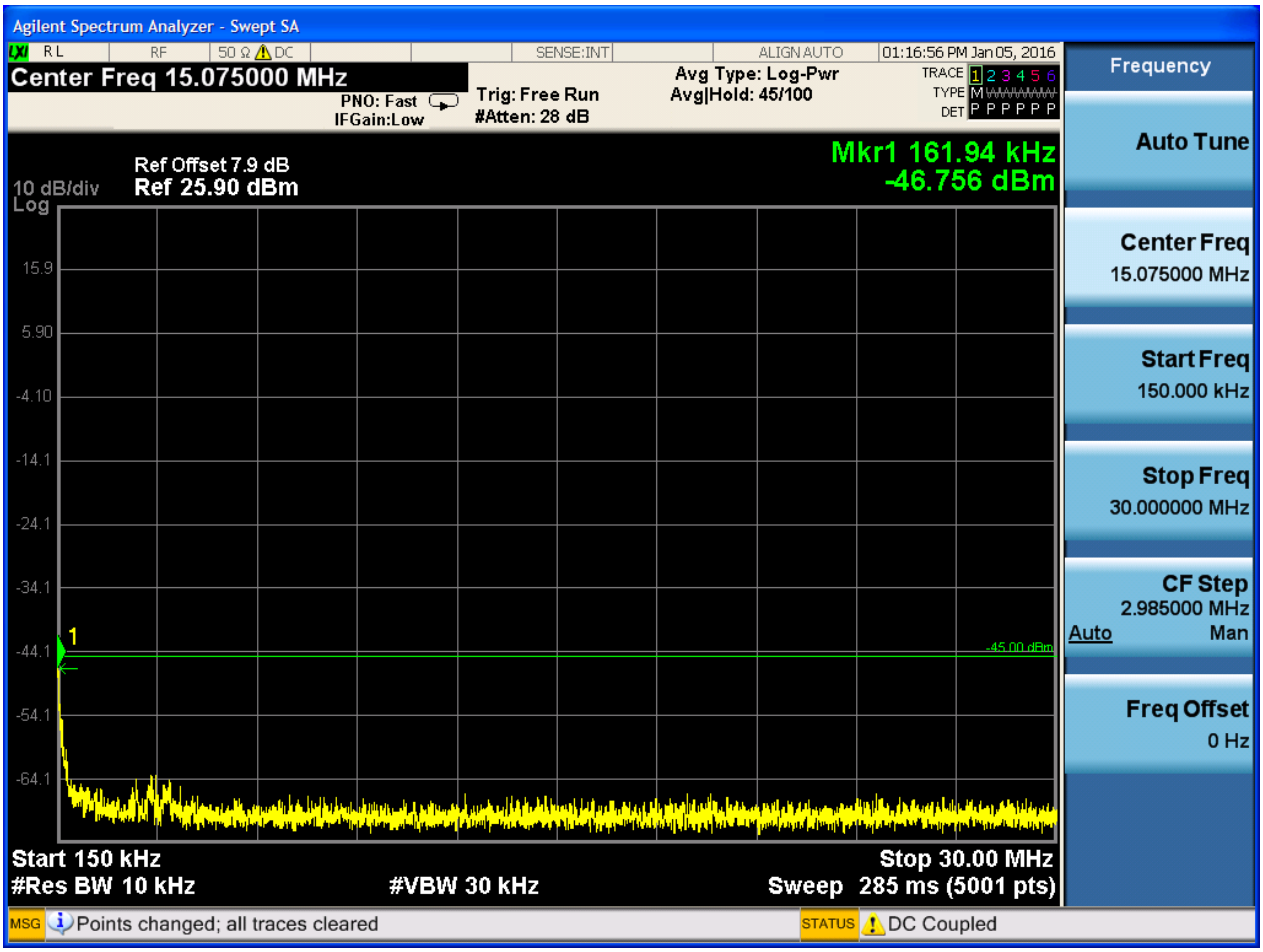

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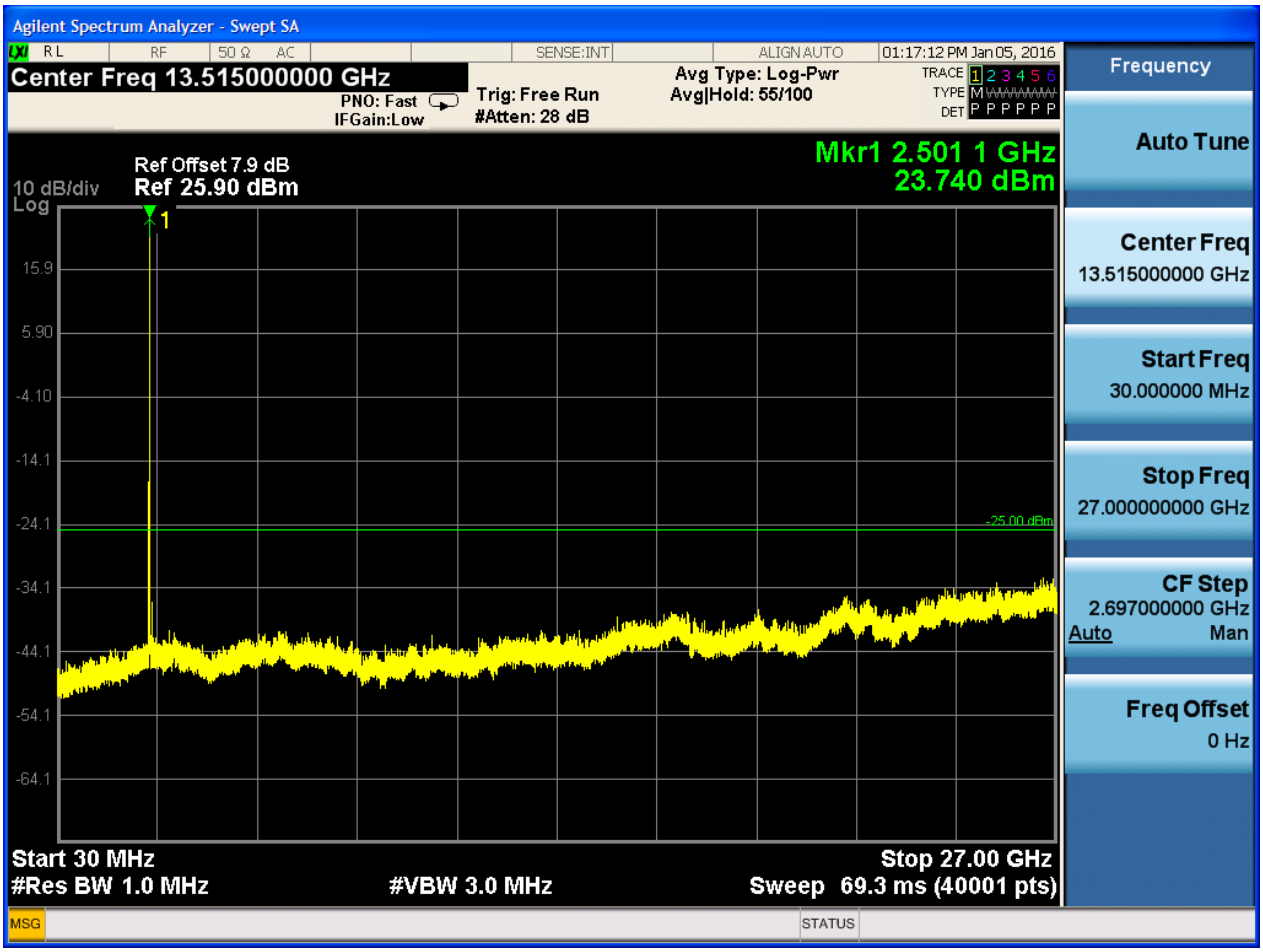

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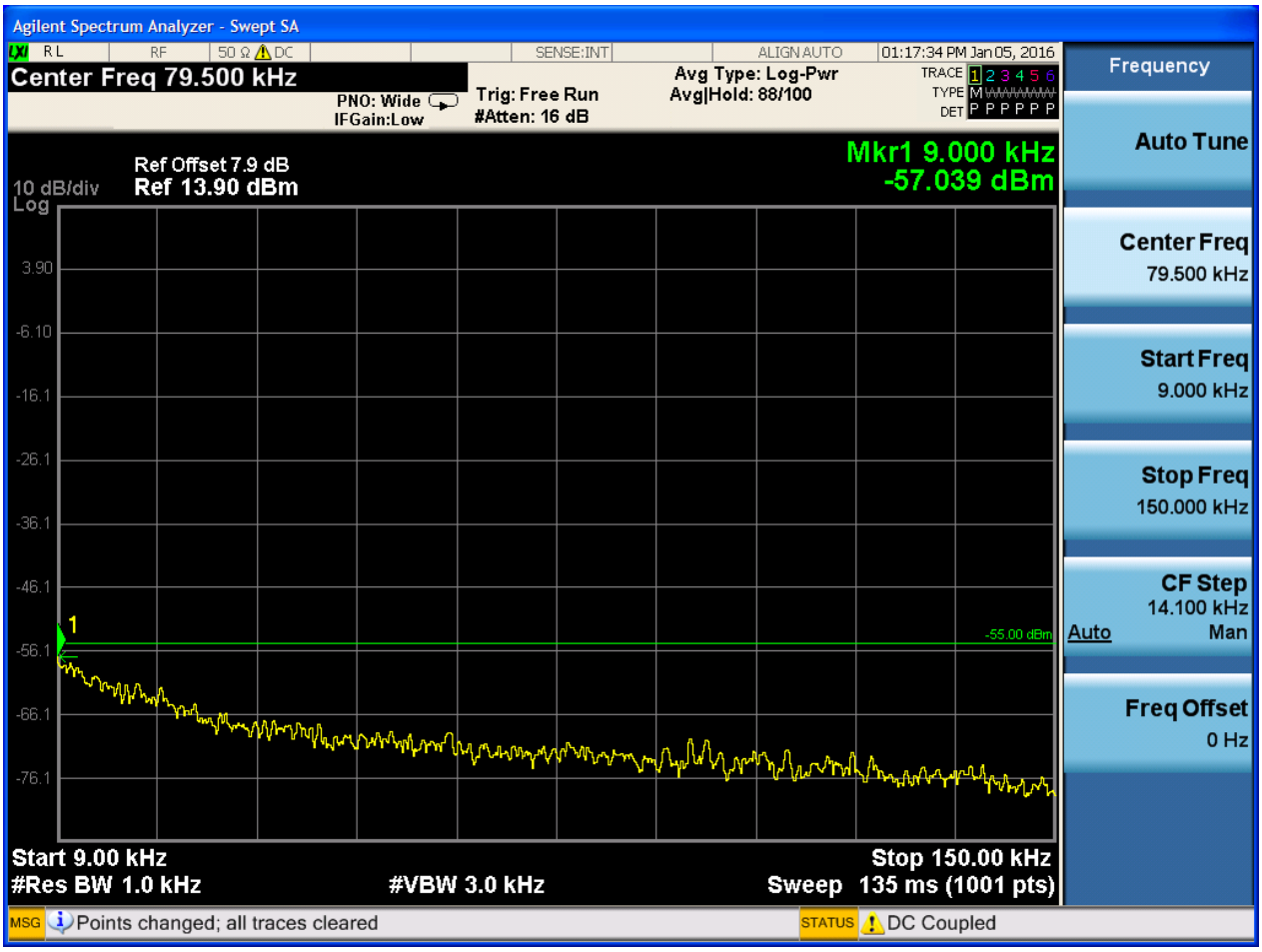
6.1.5.1.3.2 Test Channel = MCH

6.1.5.1.3.2.1 Test RB = RB1#0



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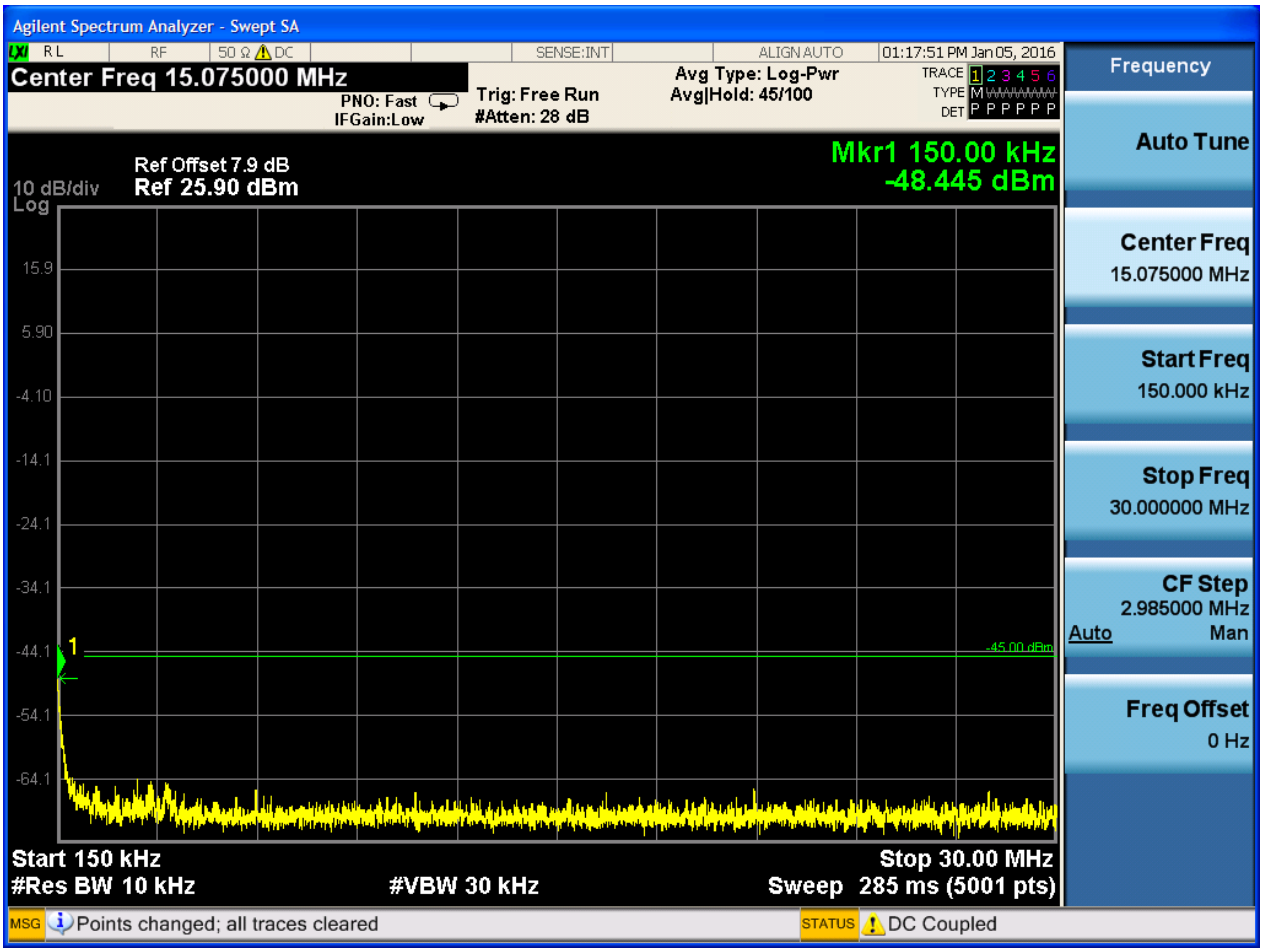

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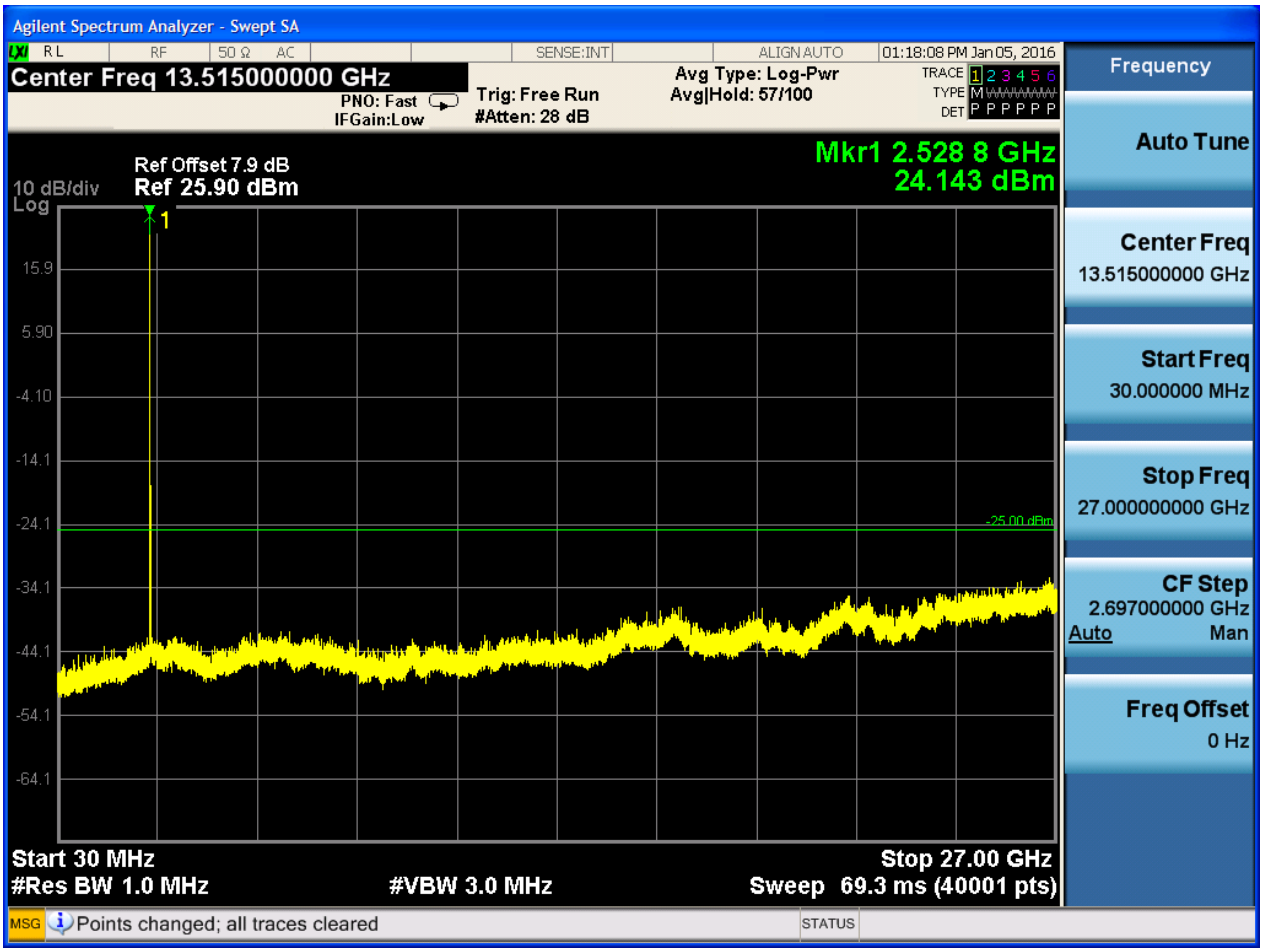

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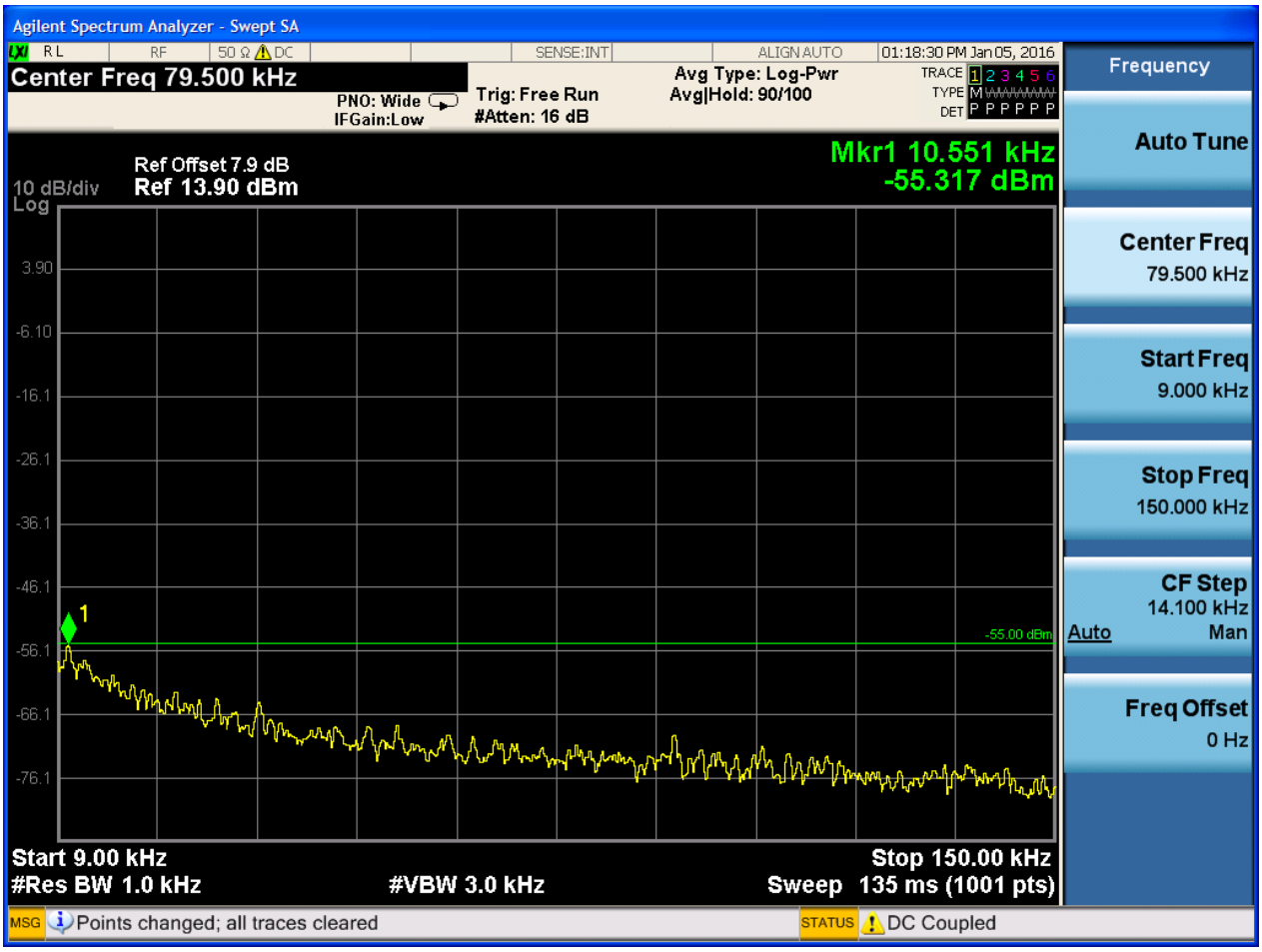
6.1.5.1.3.3 Test Channel = HCH

6.1.5.1.3.3.1 Test RB = RB1#0



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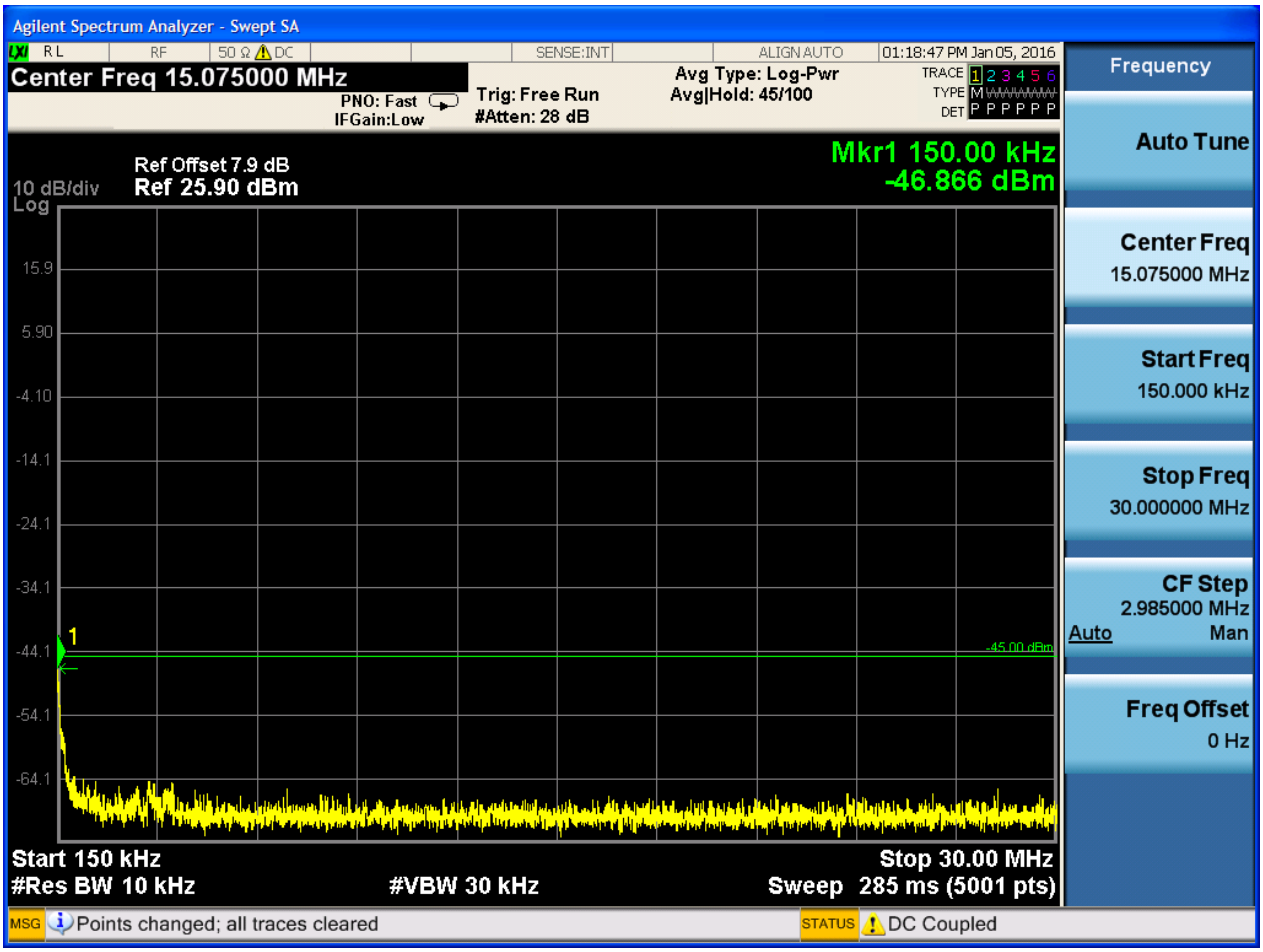

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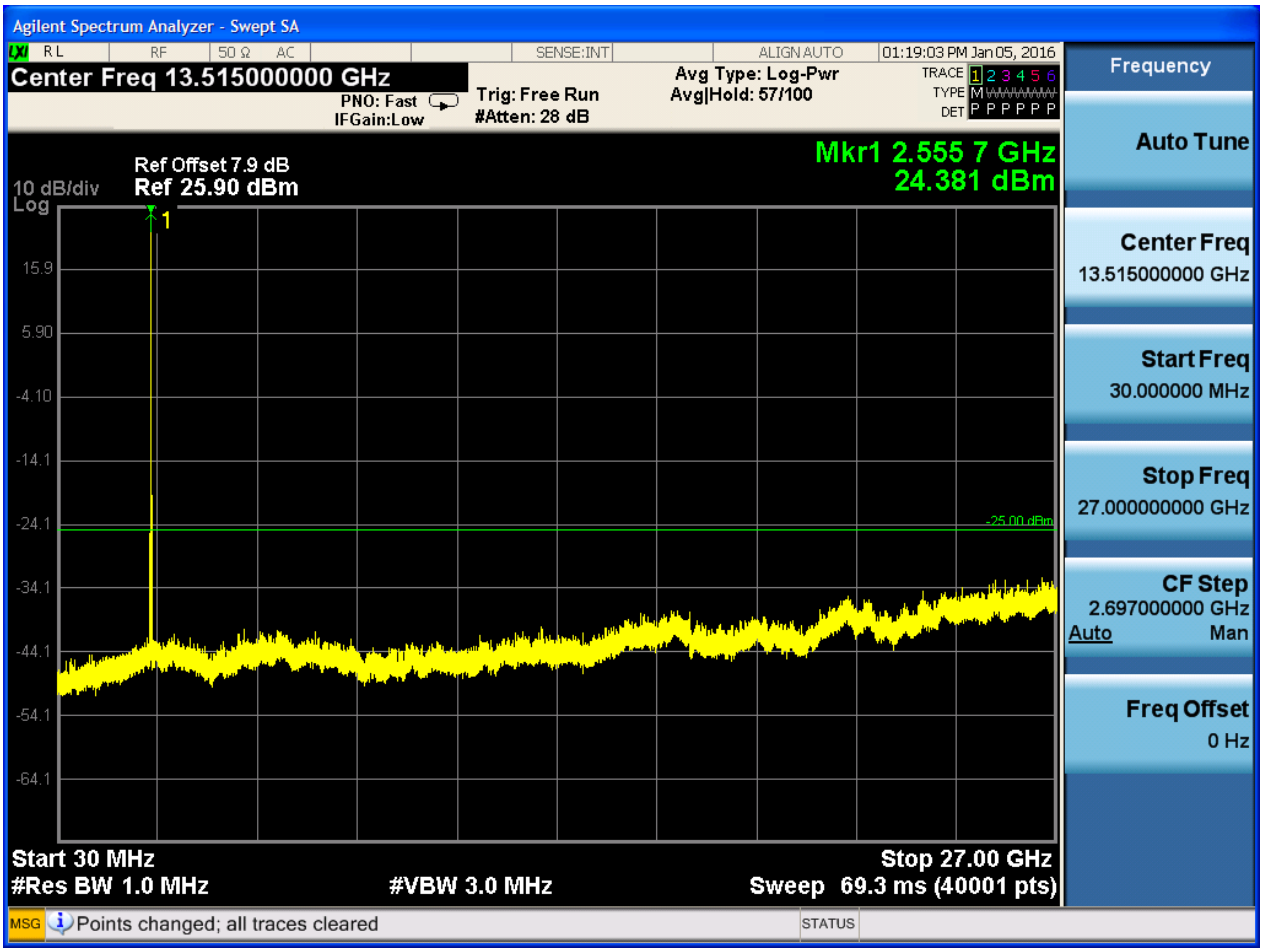
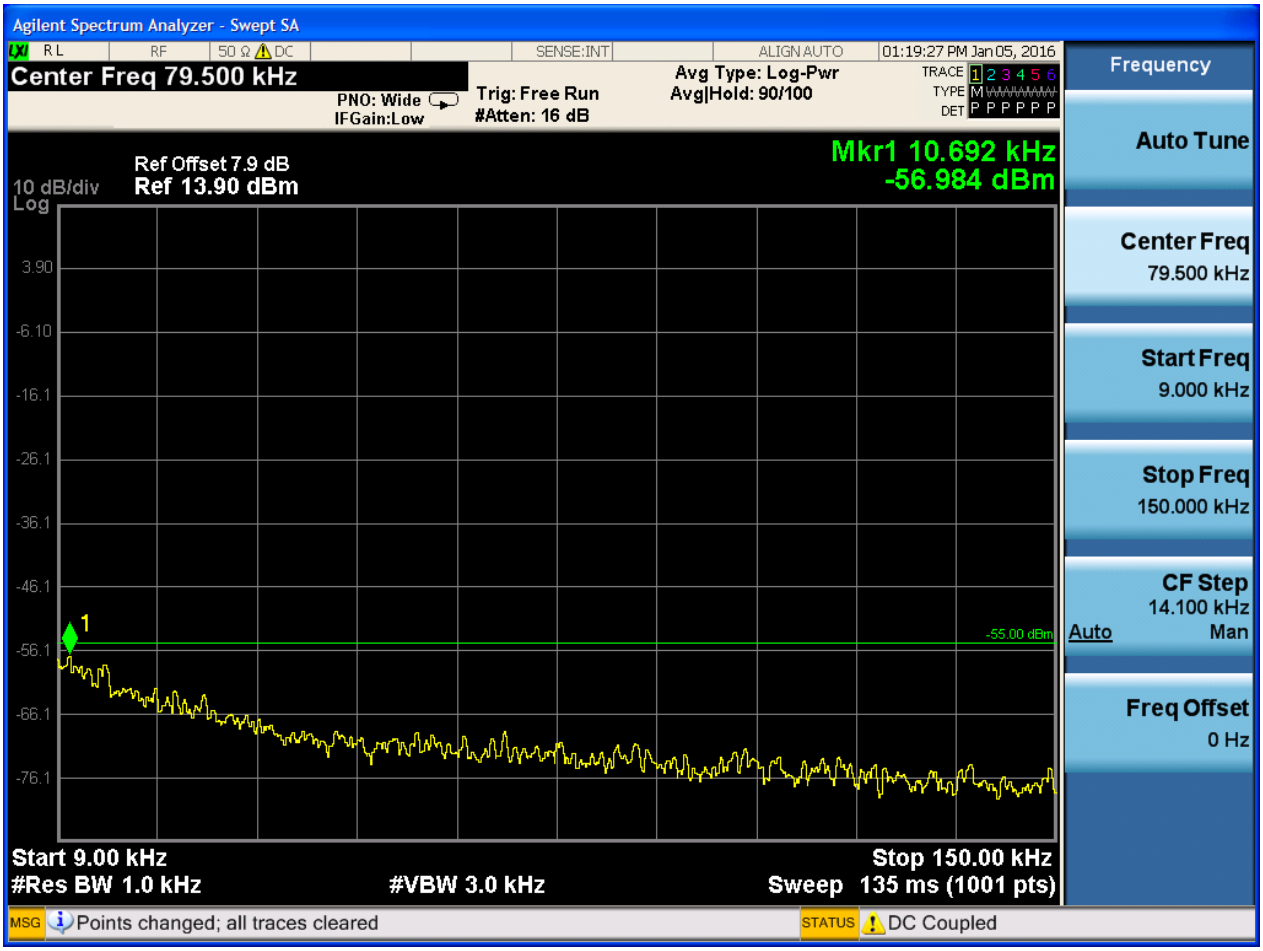

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 57/100
01:19:03 PM Jan 05, 2016
Ref Offset 7.9 dB
10 dB/div
Log
Ref 25.90 dBm
Mkr1 2.555 7 GHz
24.381 dBm
-25.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

6.1.5.1.4 Test Bandwidth = 20

6.1.5.1.4.1 Test Channel = LCH

6.1.5.1.4.1.1 Test RB = RB1#0



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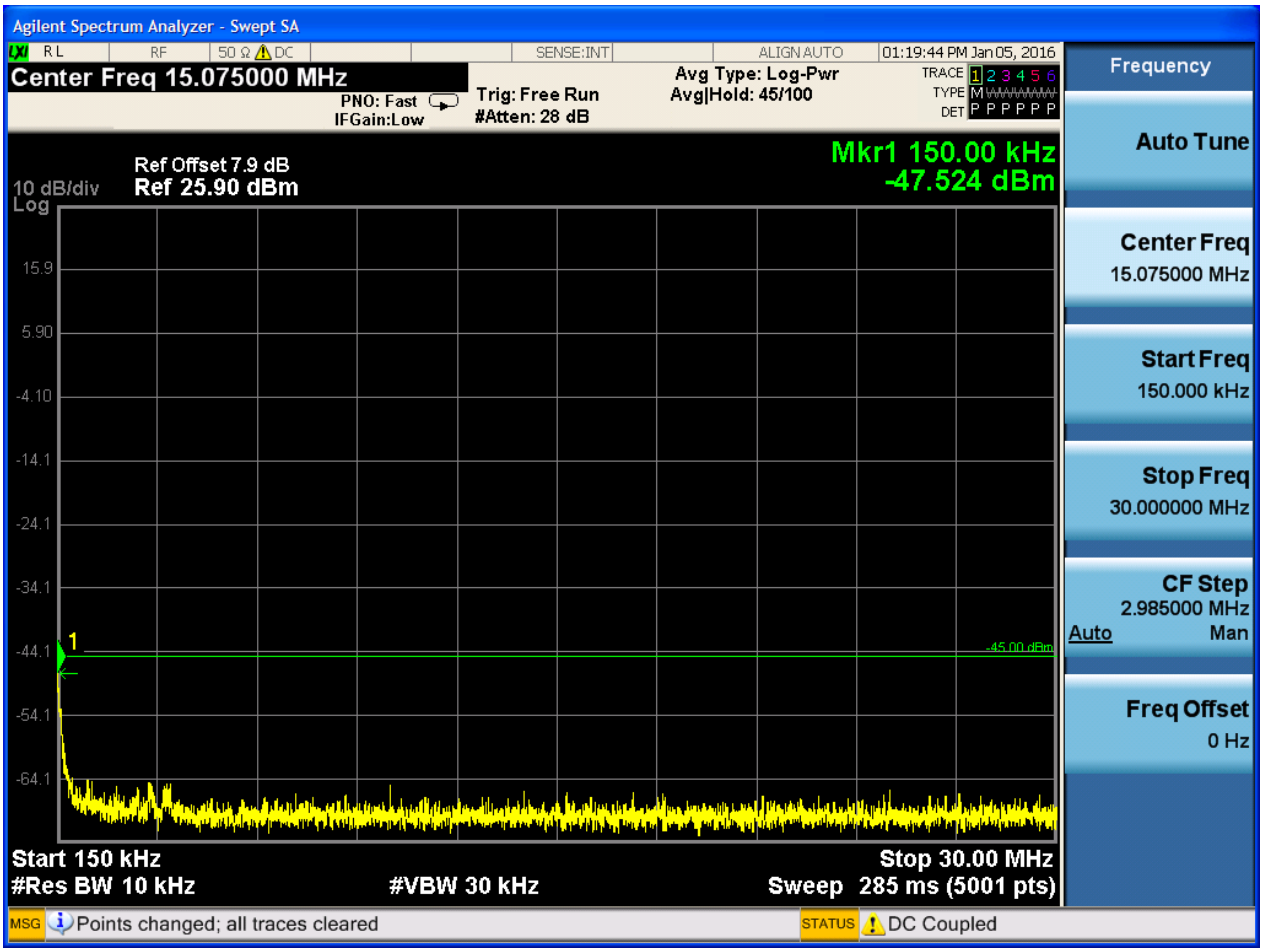

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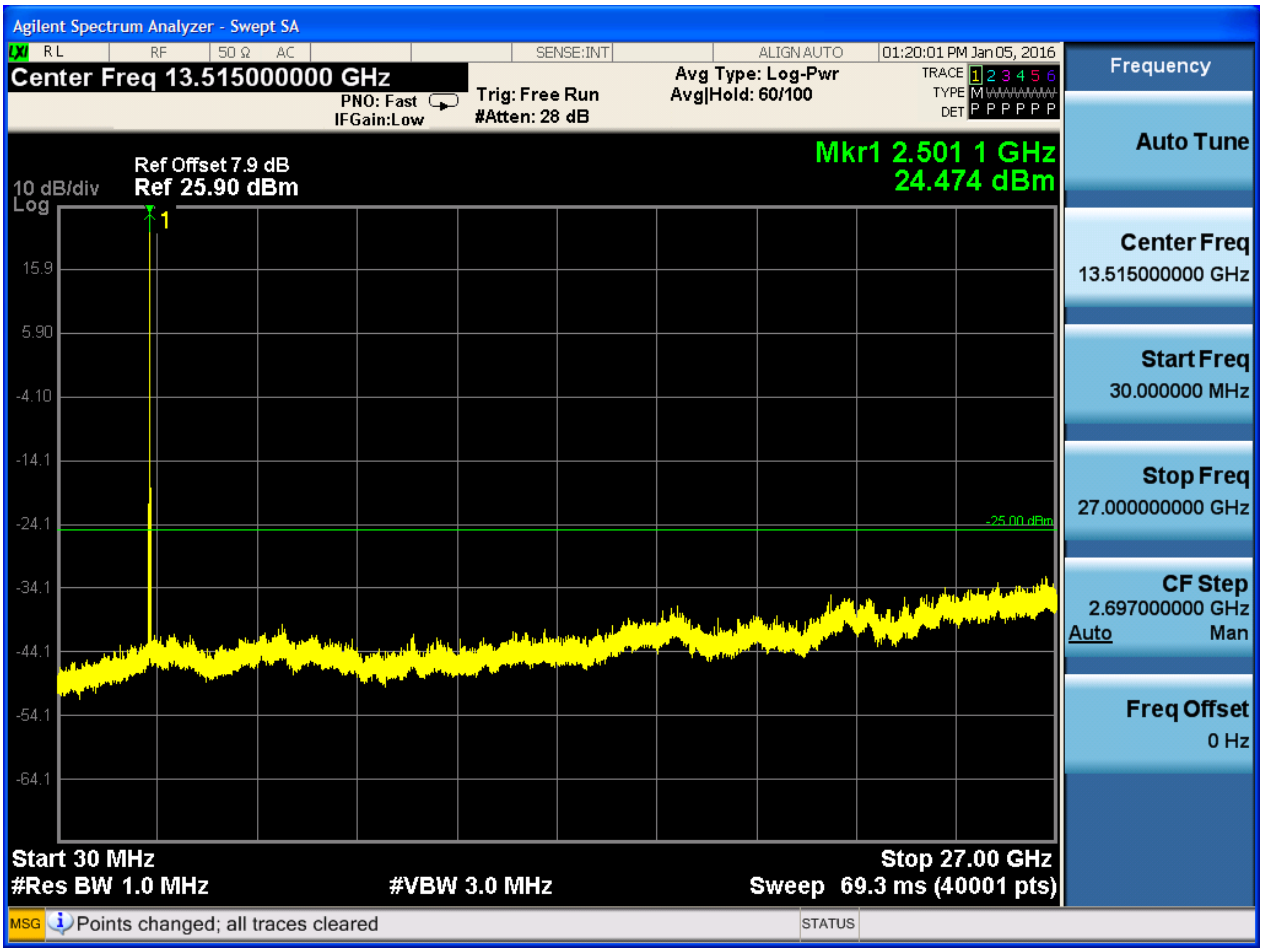

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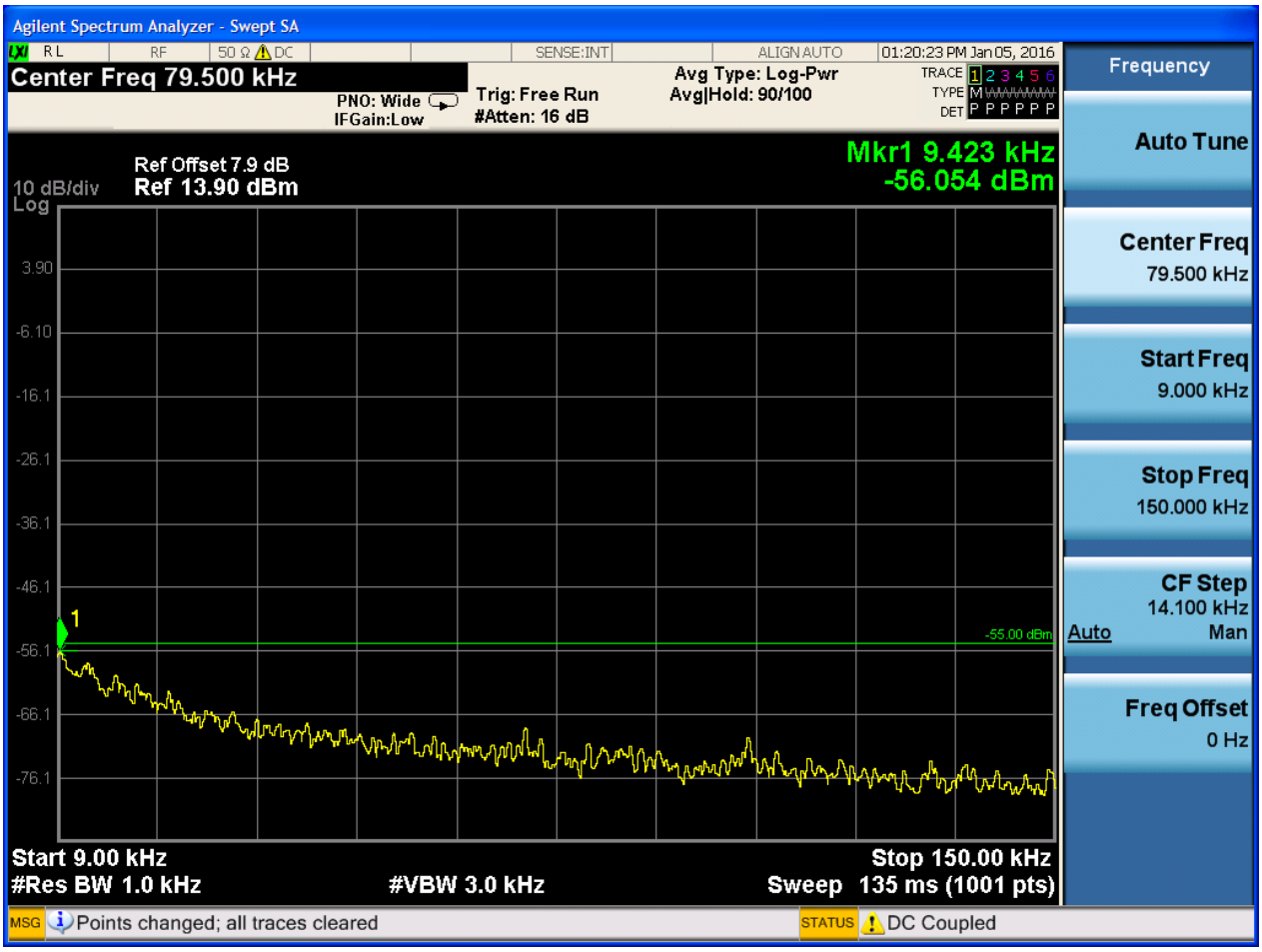
6.1.5.1.4.2 Test Channel = MCH

6.1.5.1.4.2.1 Test RB = RB1#0



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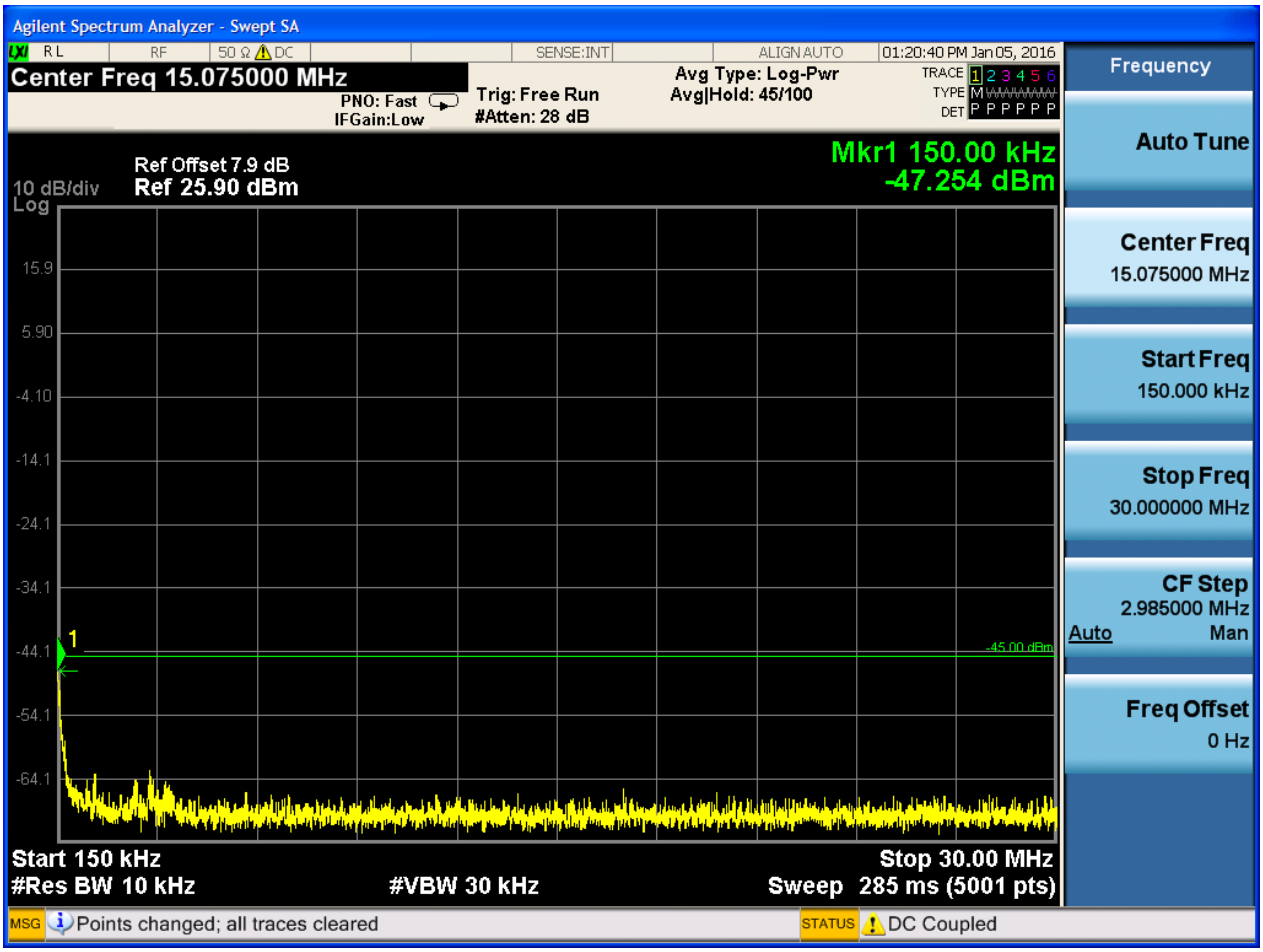

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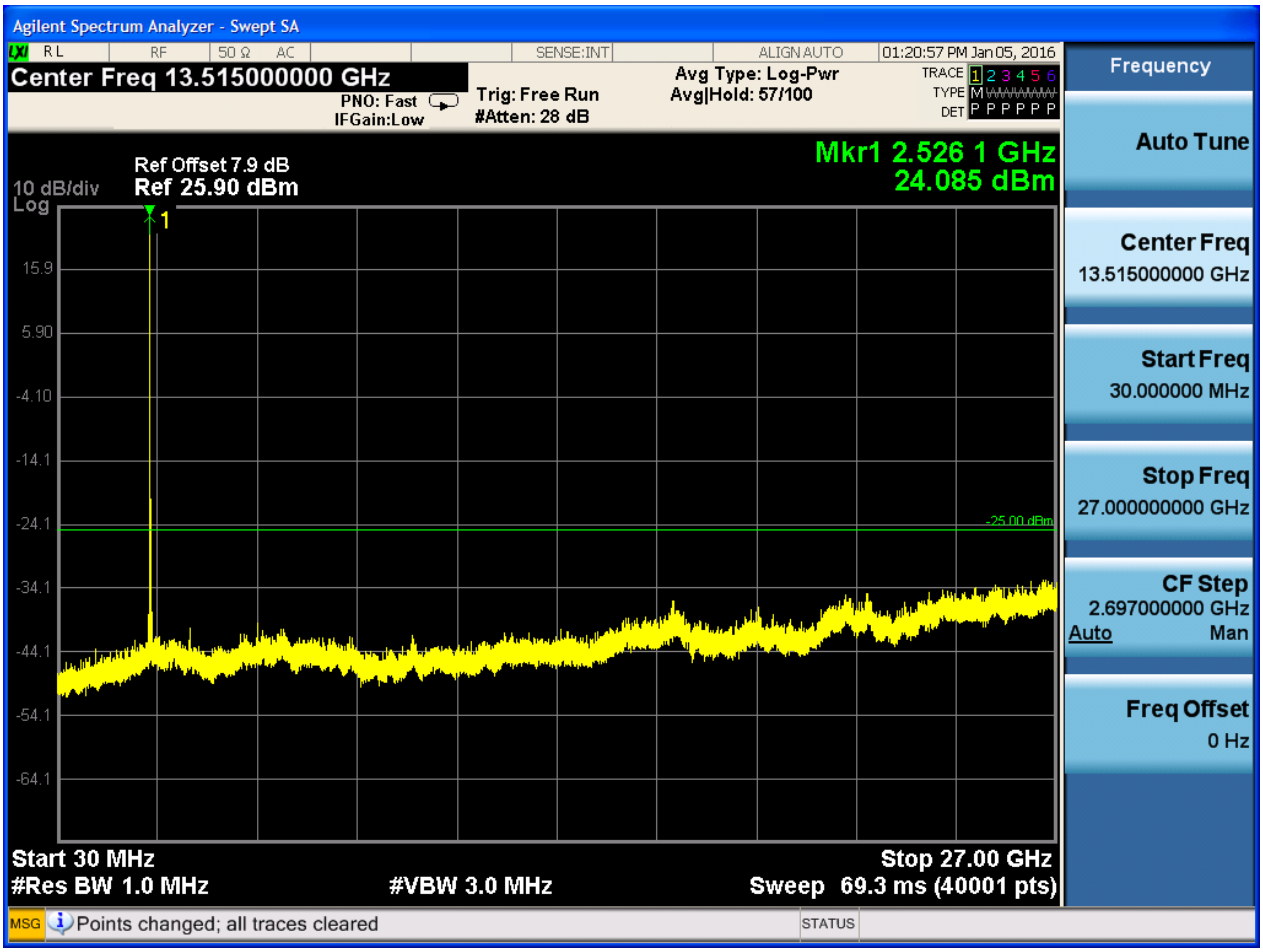

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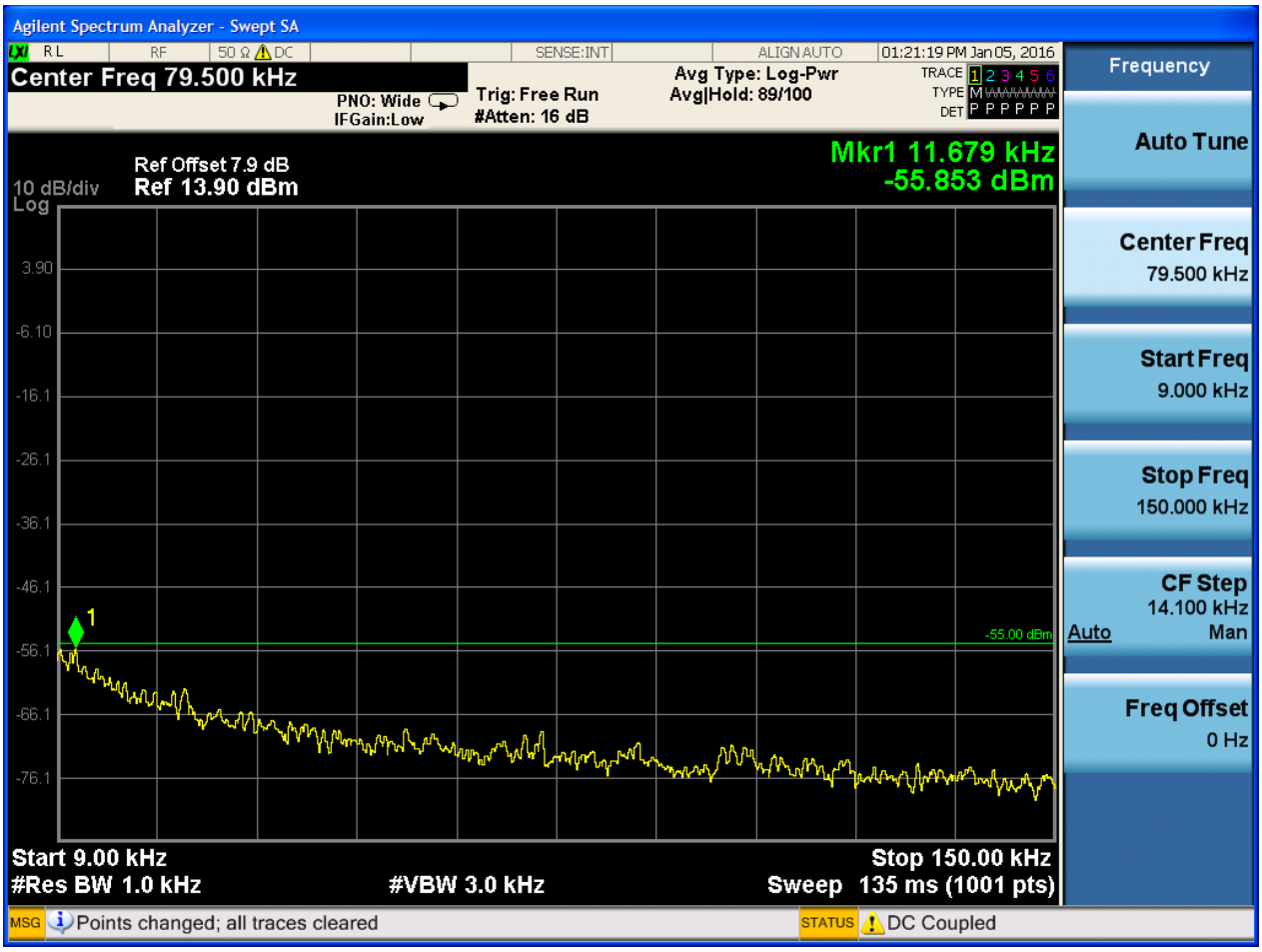
6.1.5.1.4.3 Test Channel = HCH

6.1.5.1.4.3.1 Test RB = RB1#0



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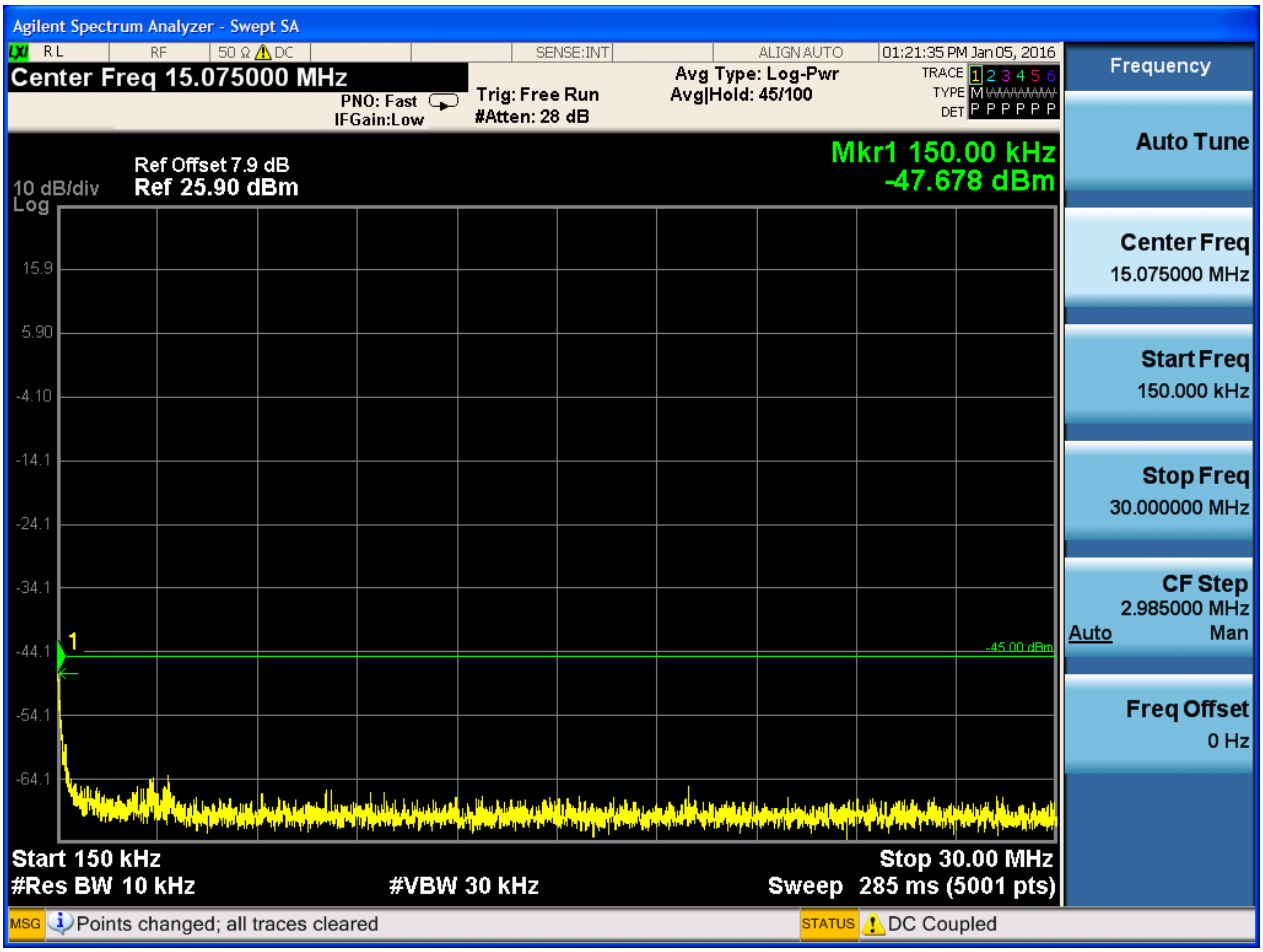

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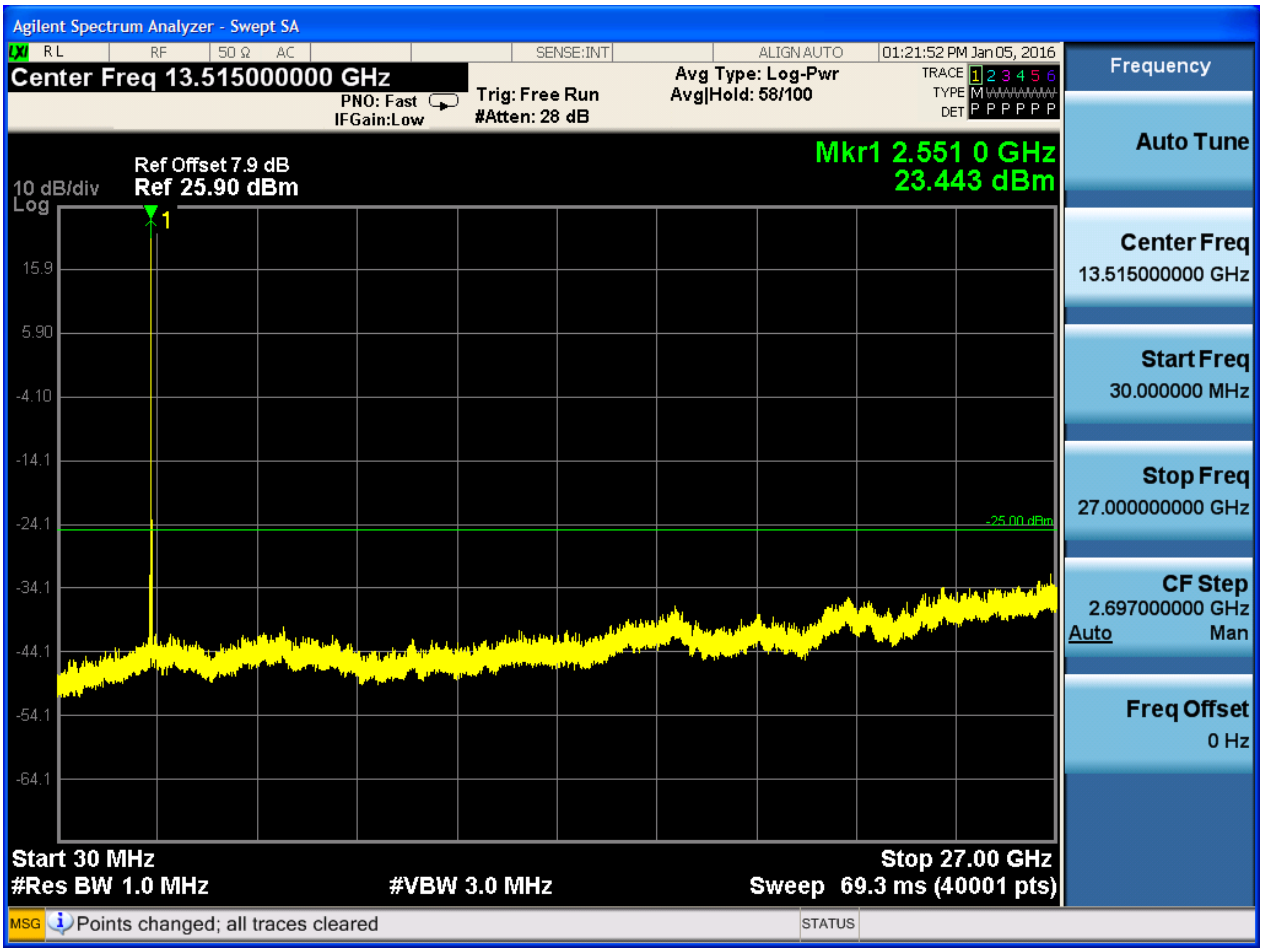

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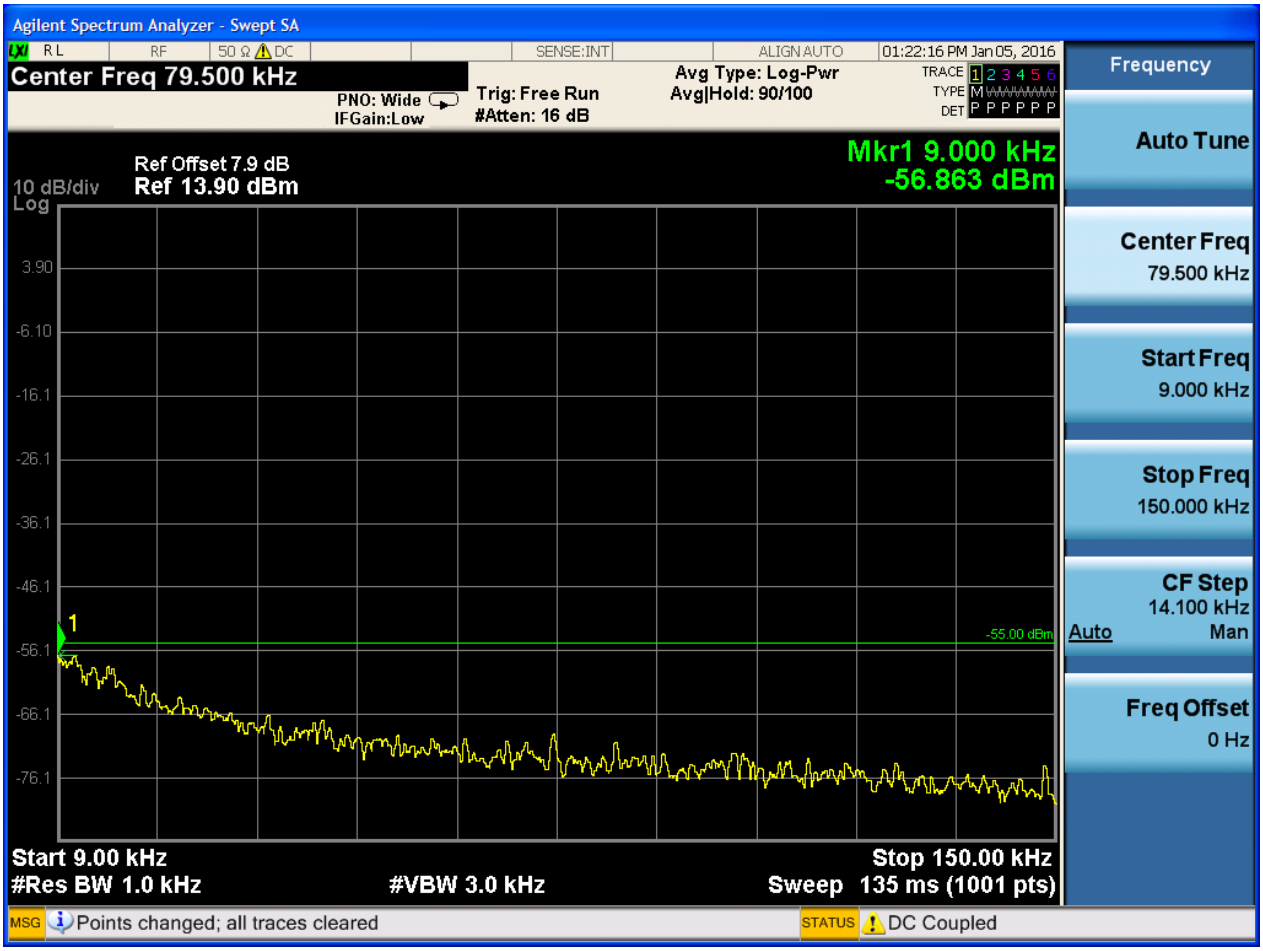
6.1.5.2 Test Mode = LTE/TM2

6.1.5.2.1 Test Bandwidth = 5

6.1.5.2.1.1 Test Channel = LCH

6.1.5.2.1.1.1 Test RB = RB1#0



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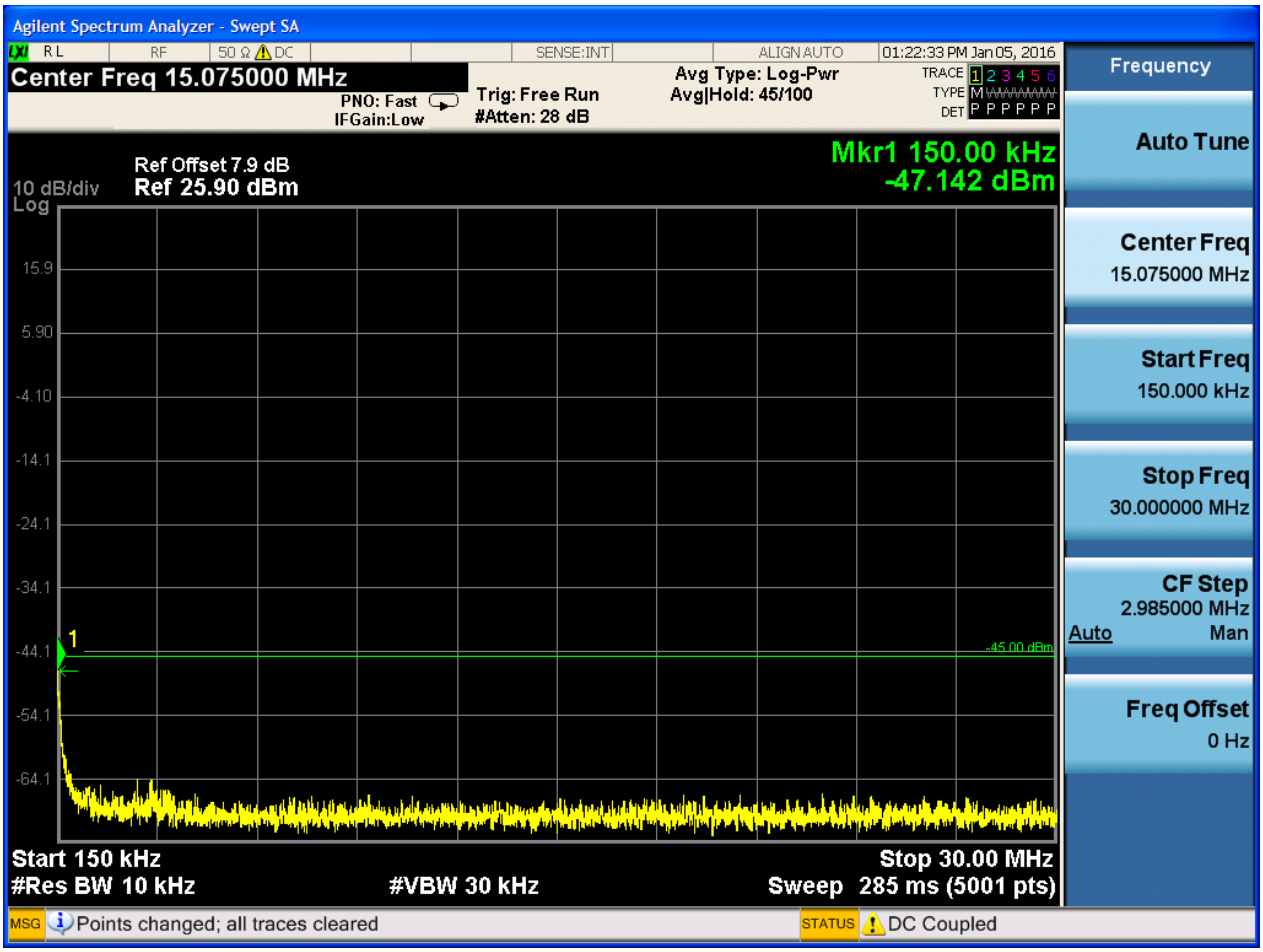

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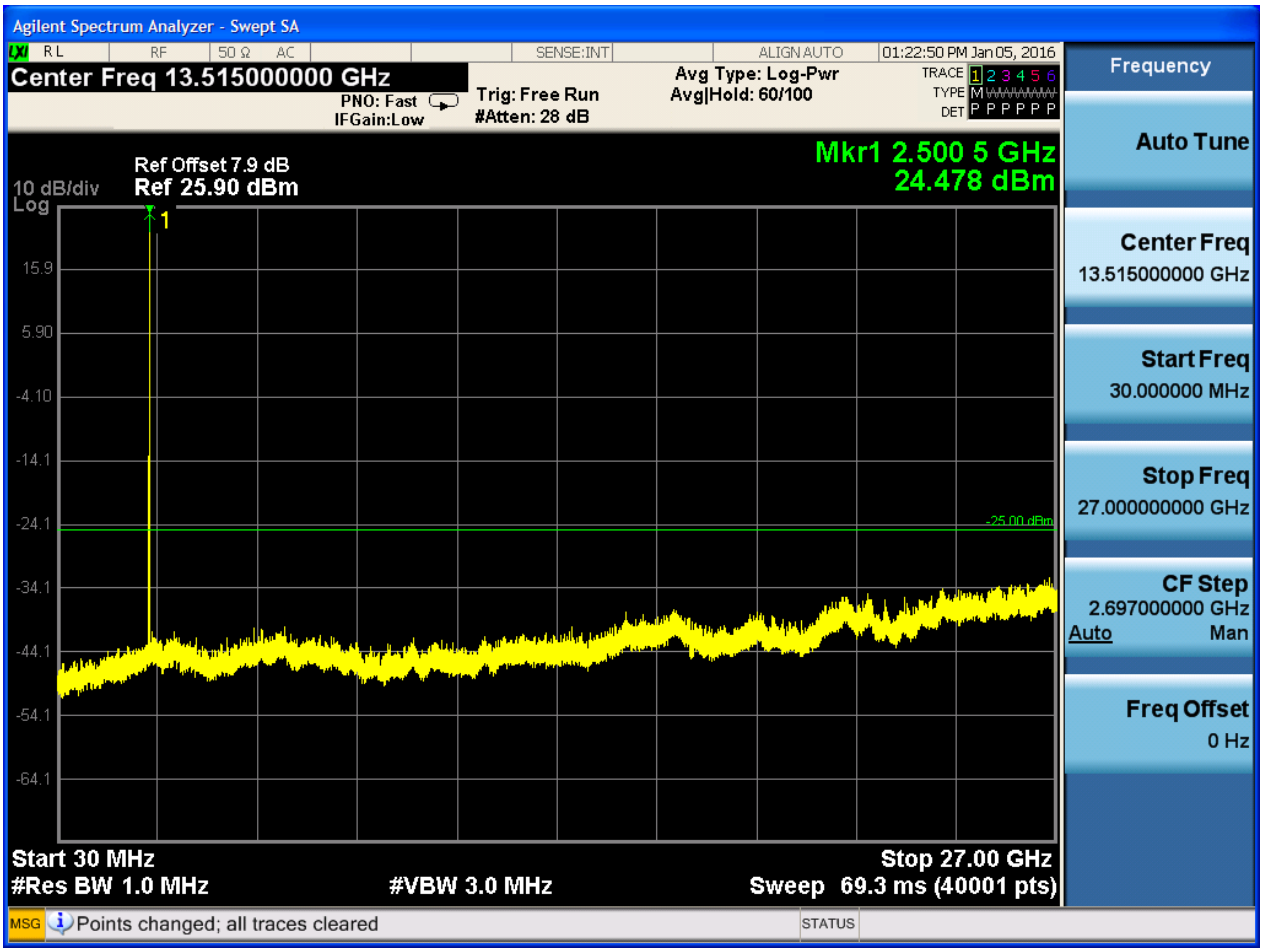
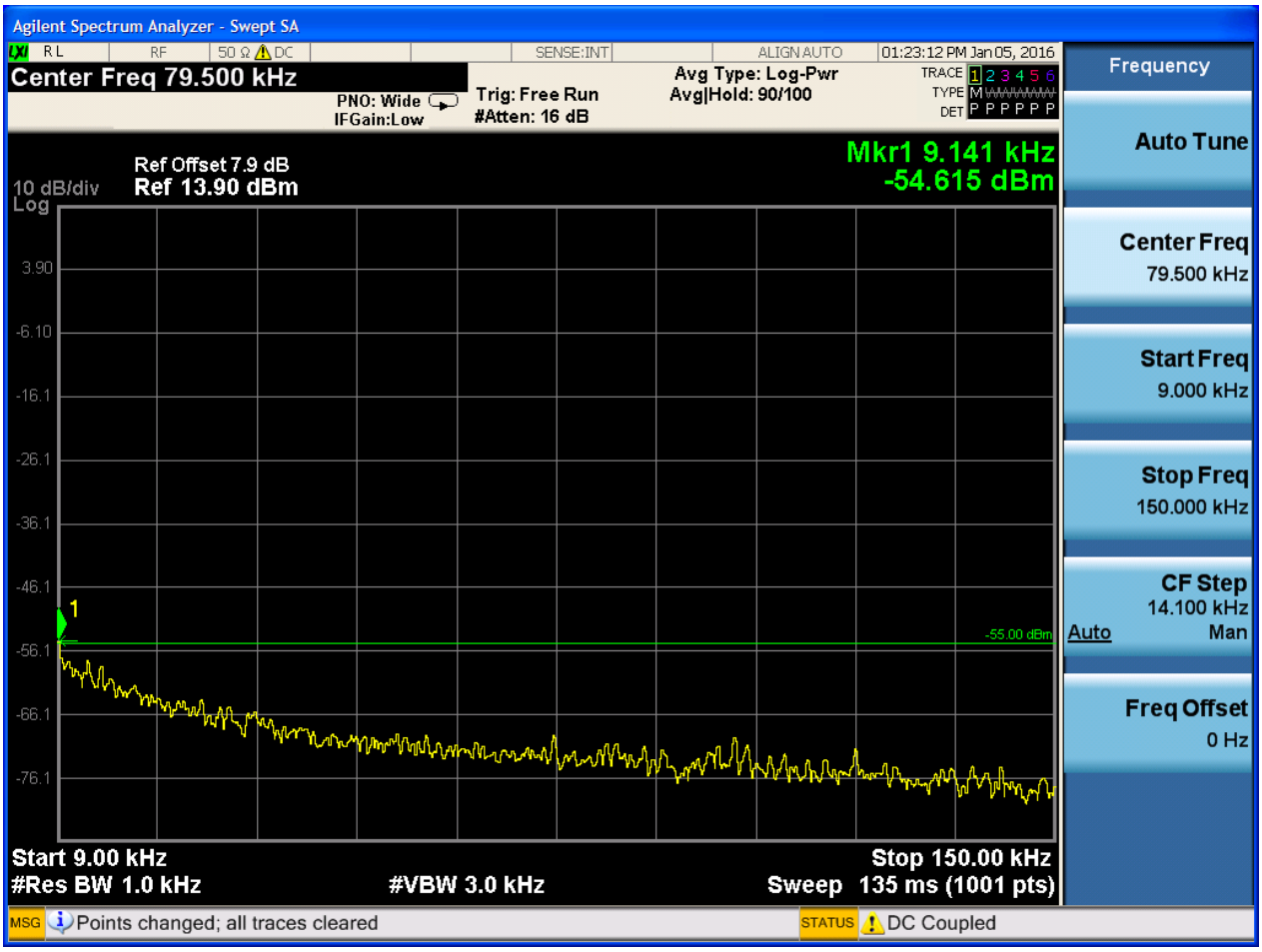

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 60/100
01:22:50 PM Jan 05, 2016
Ref Offset 7.9 dB
10 dB/div
Log
Ref 25.90 dBm
Mkr1 2.500 5 GHz
24.478 dBm
-25.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz

6.1.5.2.1.2 Test Channel = MCH

6.1.5.2.1.2.1 Test RB = RB1#0



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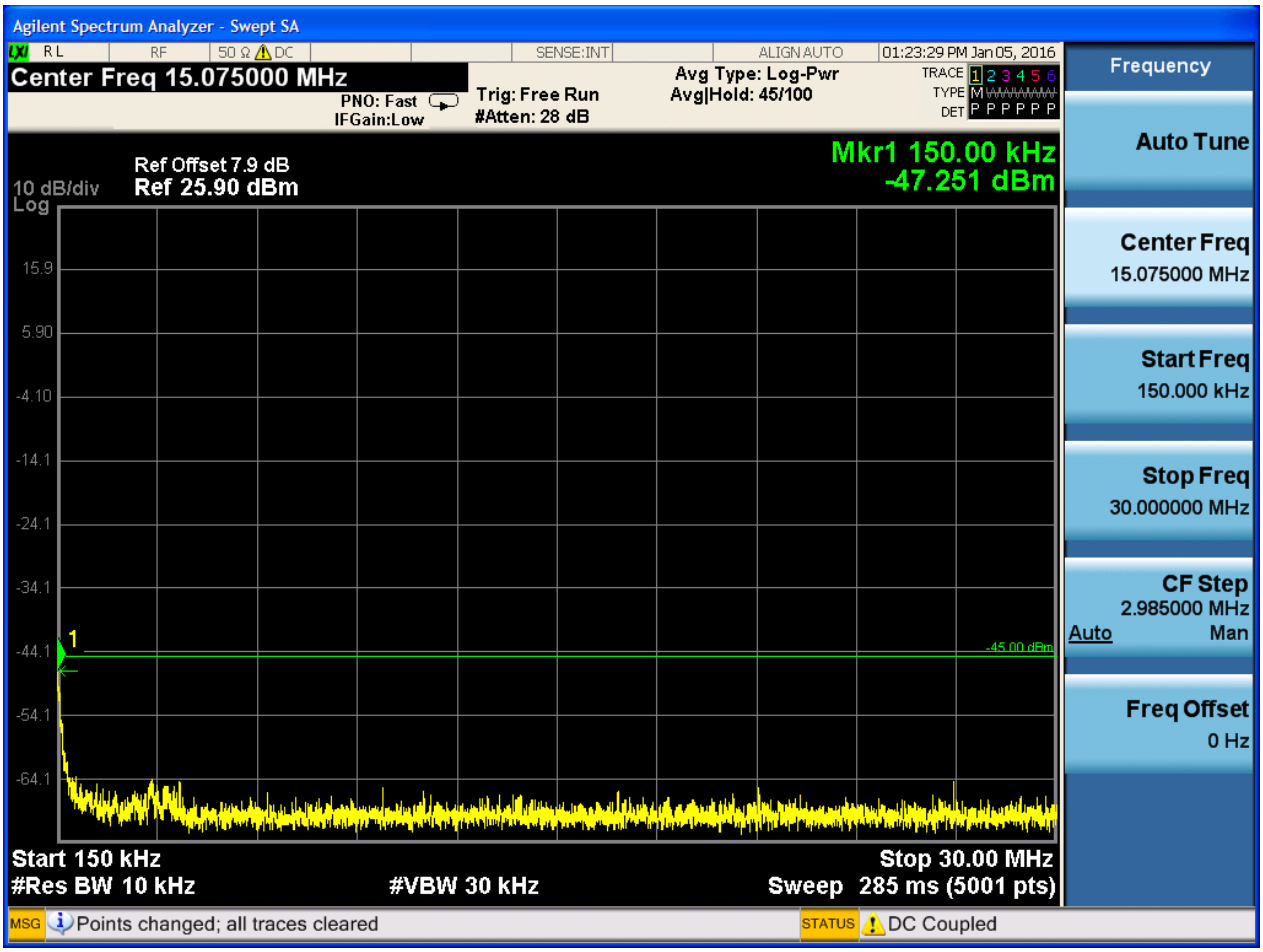

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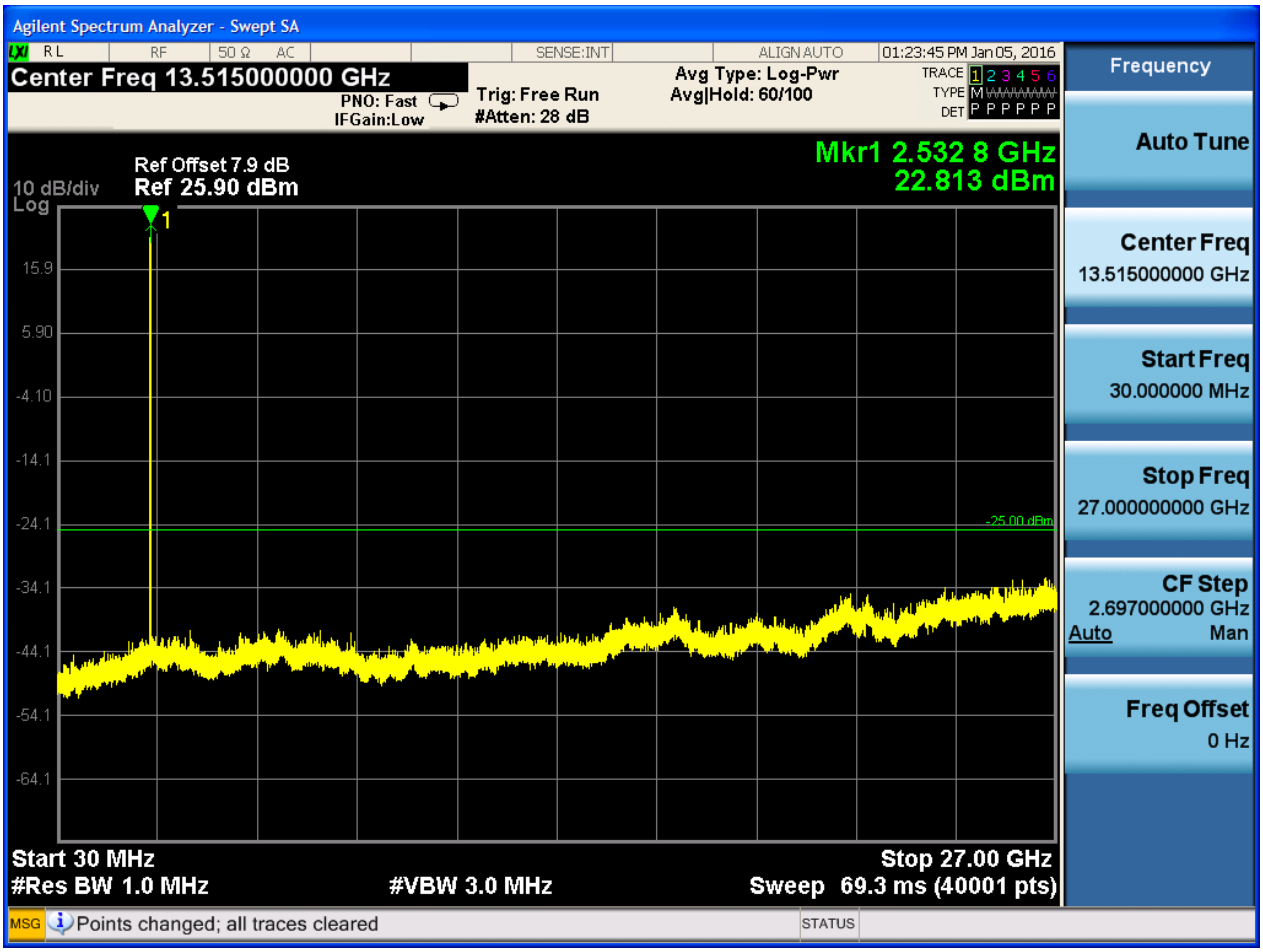

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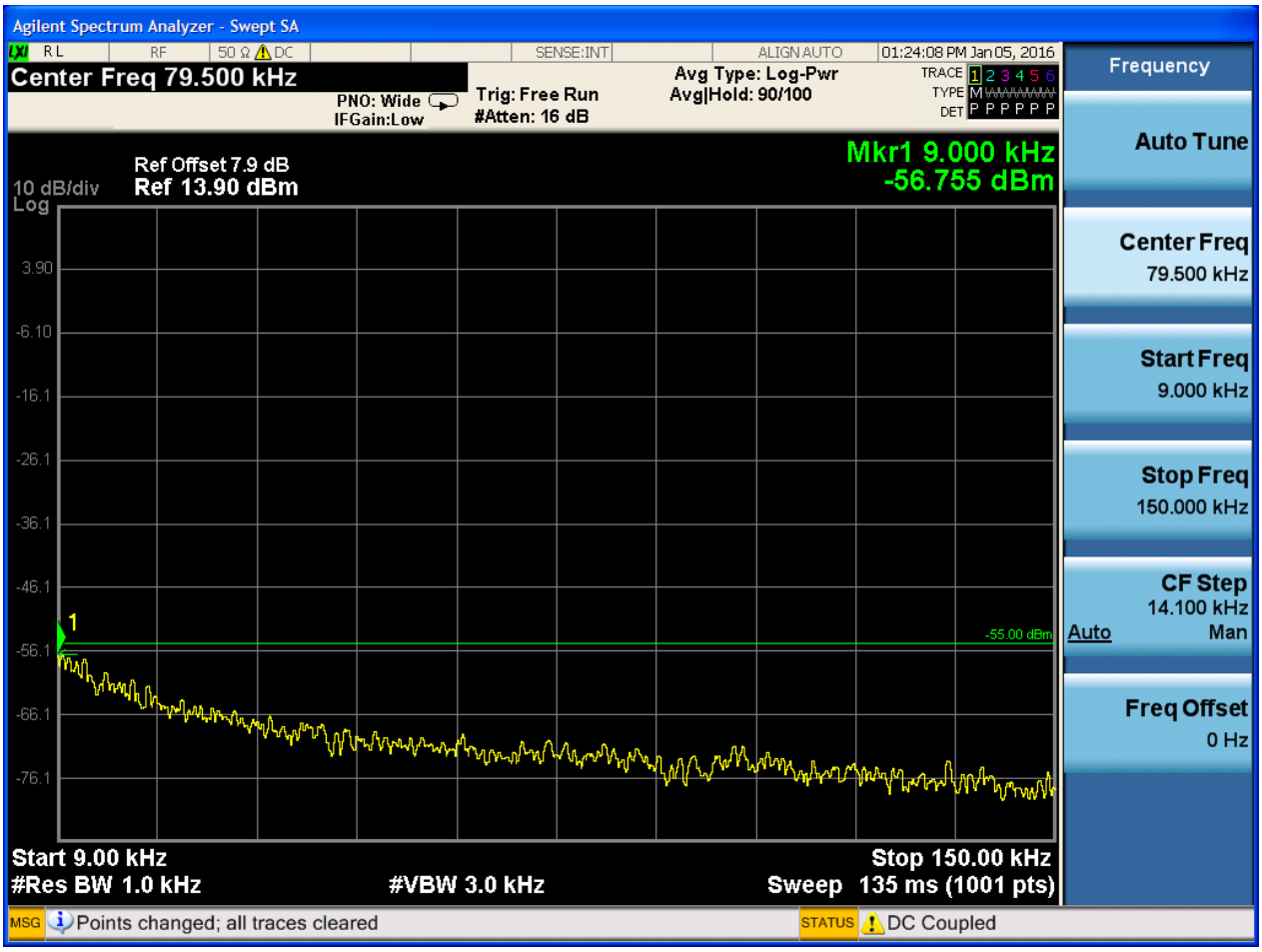
6.1.5.2.1.3 Test Channel = HCH

6.1.5.2.1.3.1 Test RB = RB1#0



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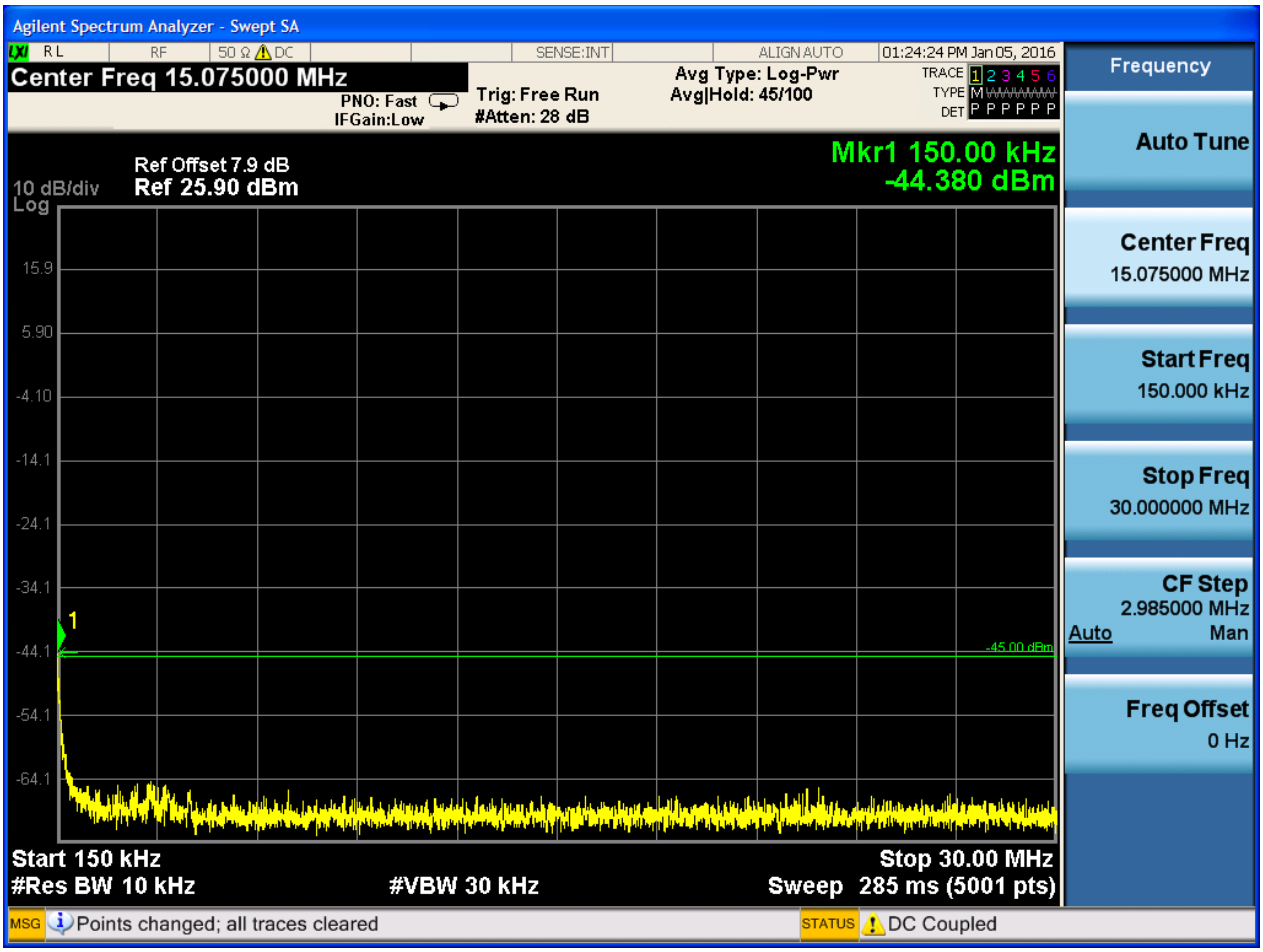

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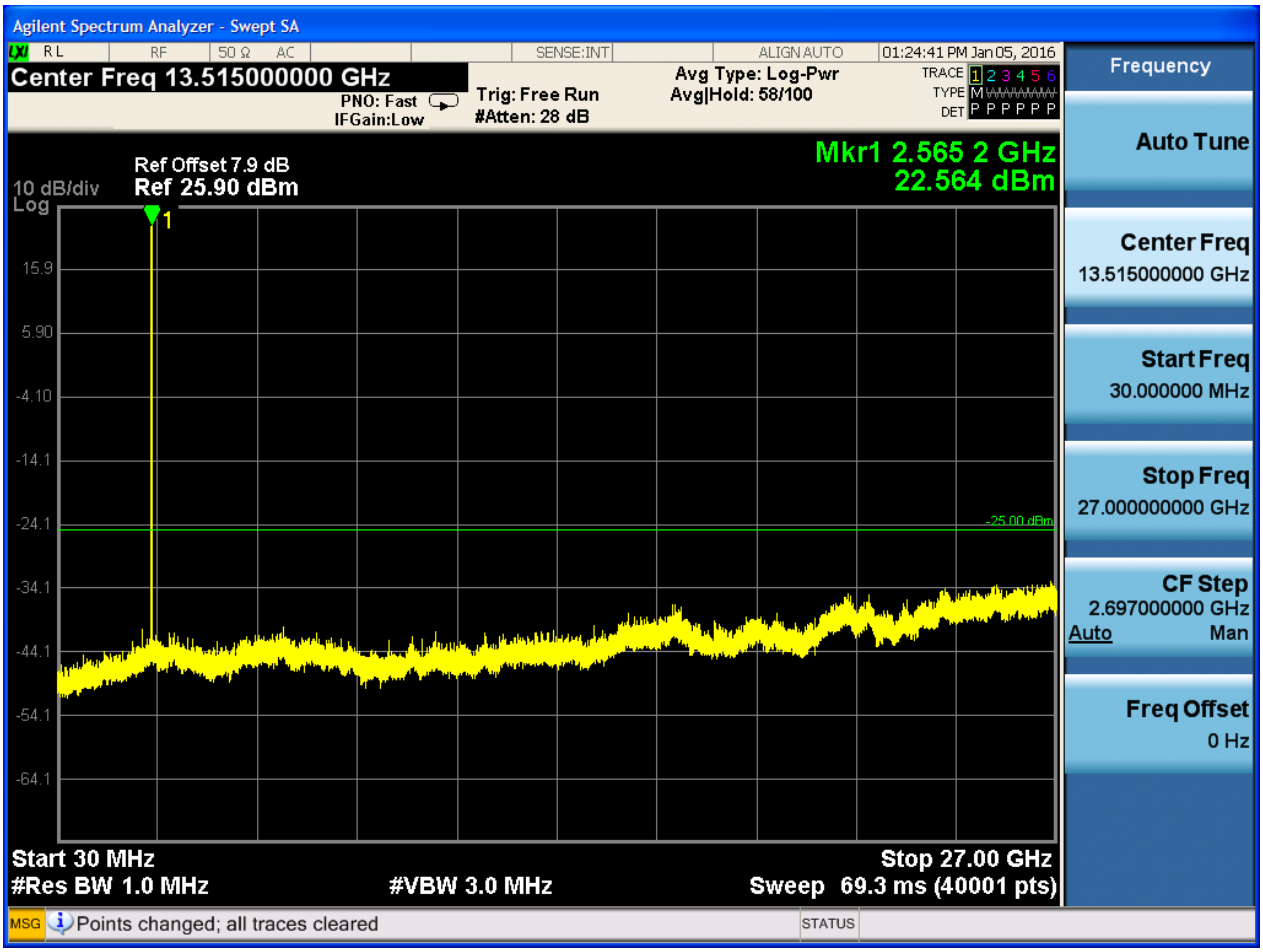

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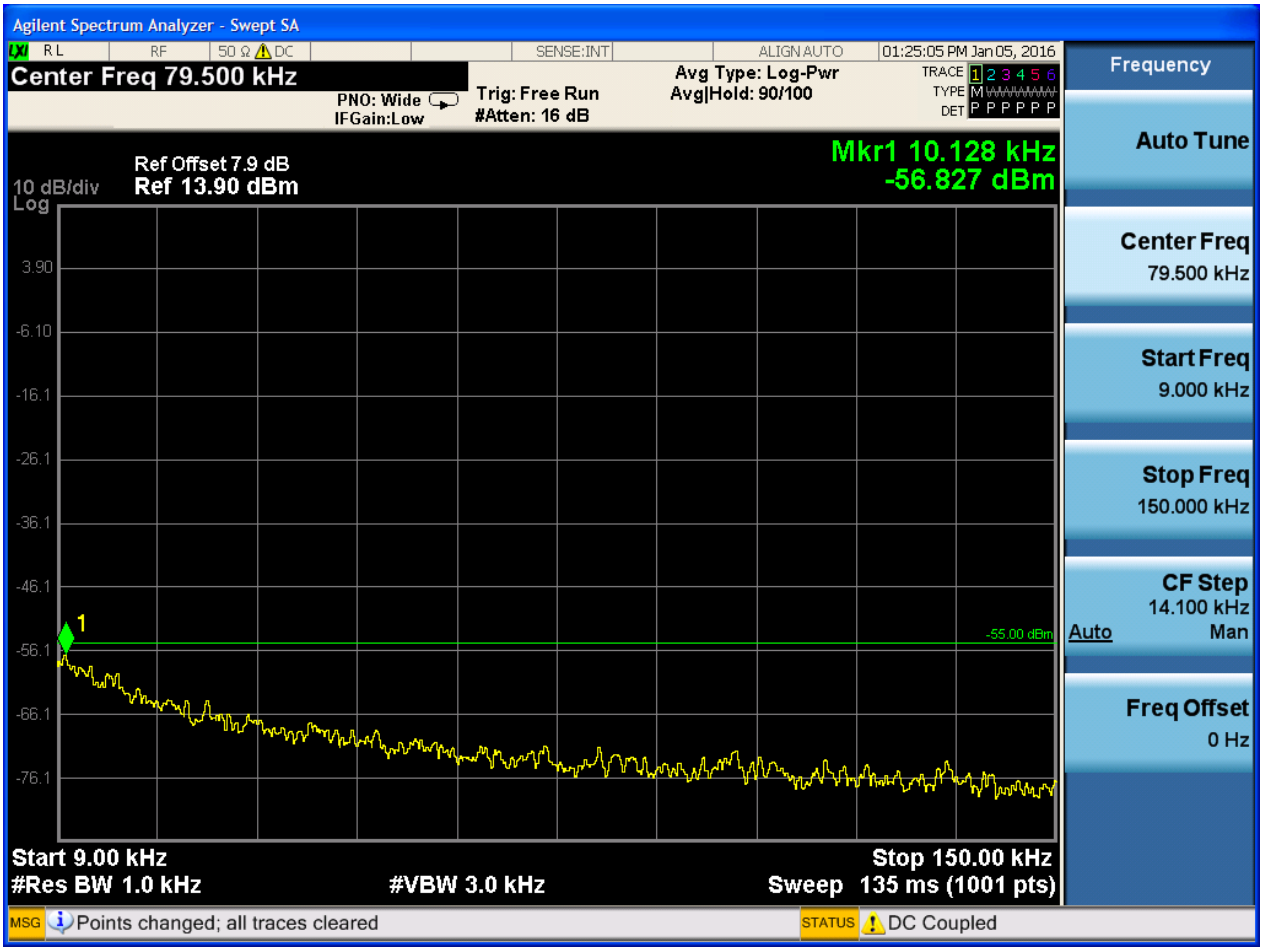
6.1.5.2.2 Test Bandwidth = 10

6.1.5.2.2.1 Test Channel = LCH

6.1.5.2.2.1.1 Test RB = RB1#0



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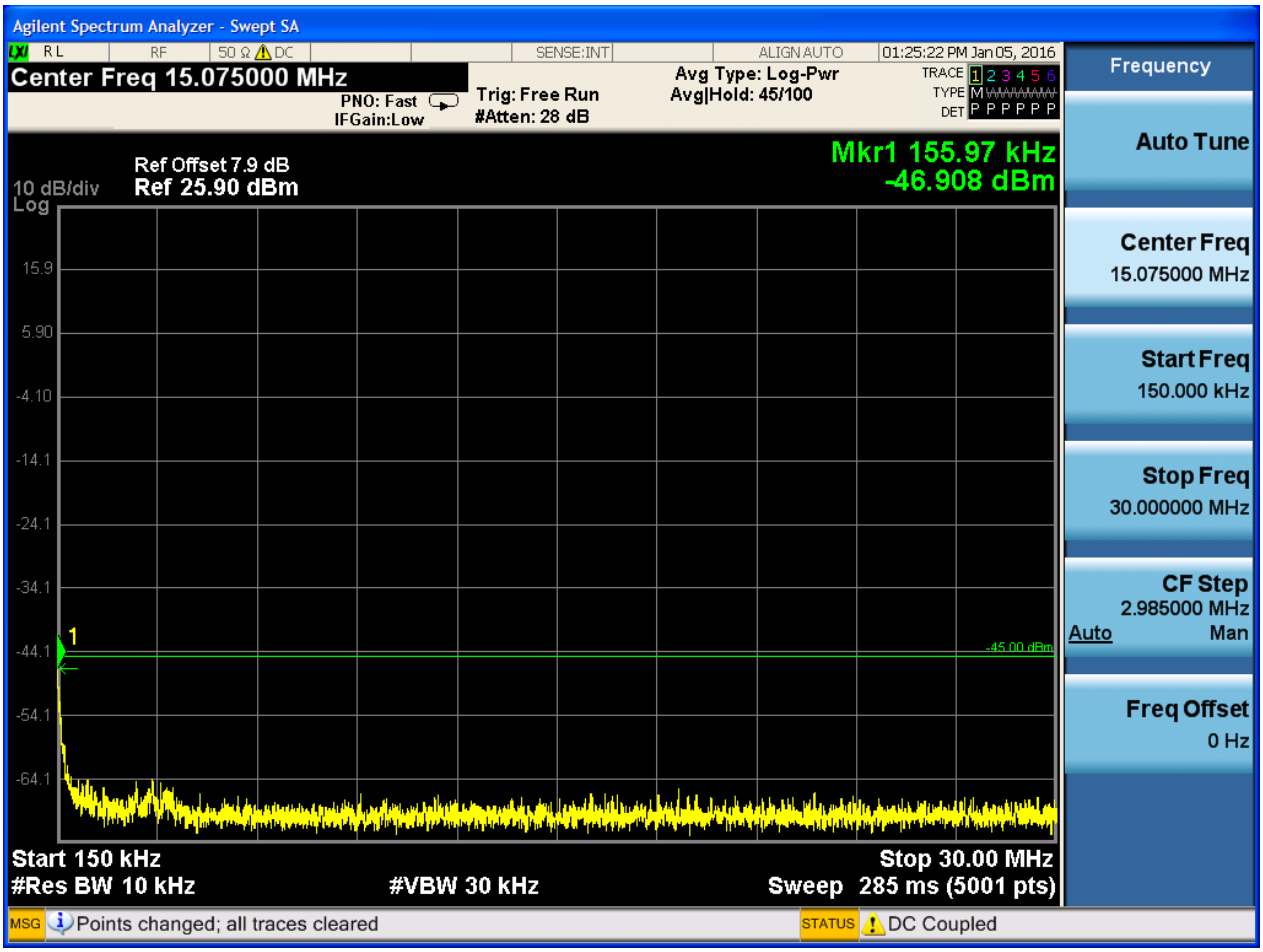

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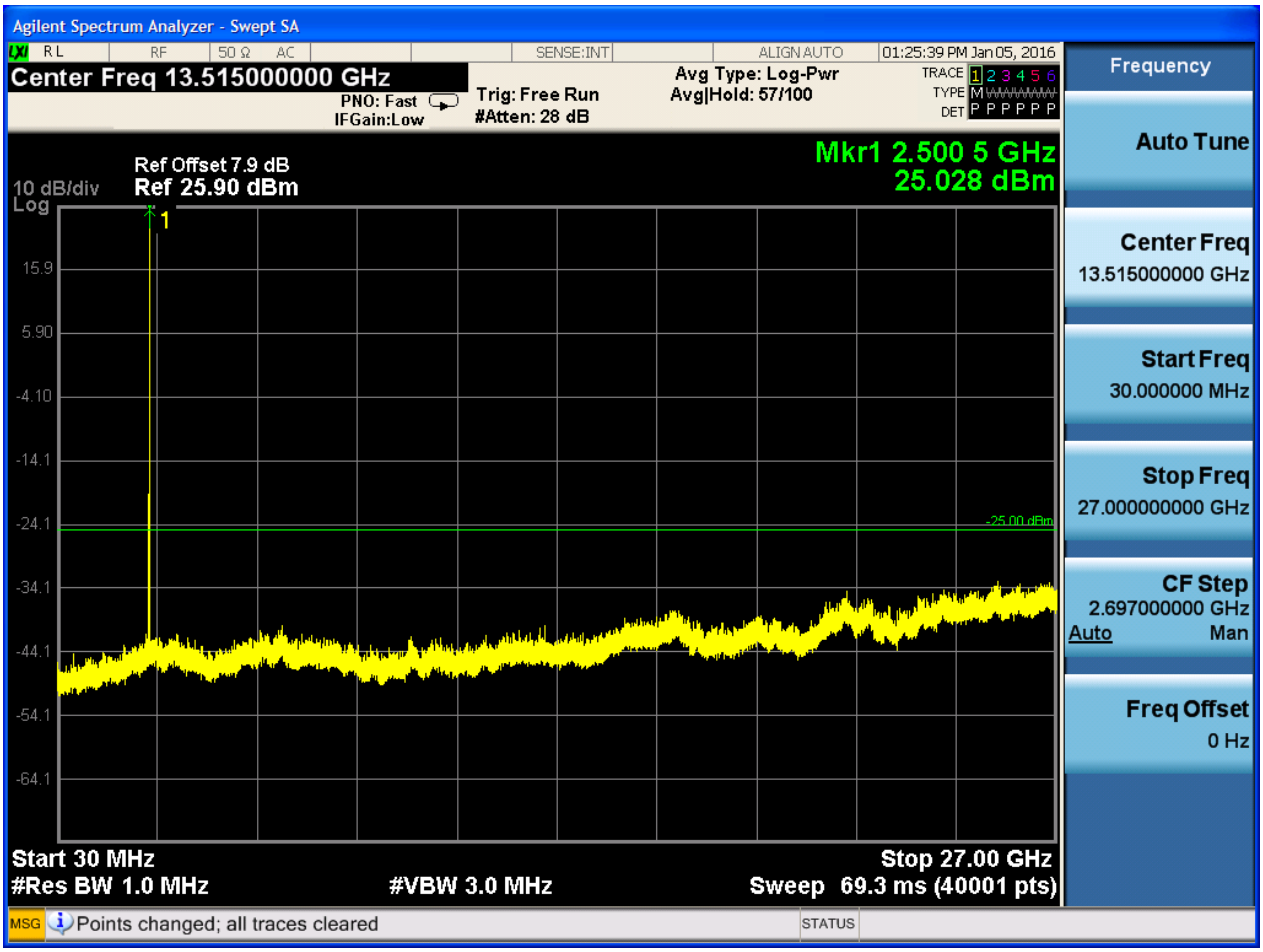

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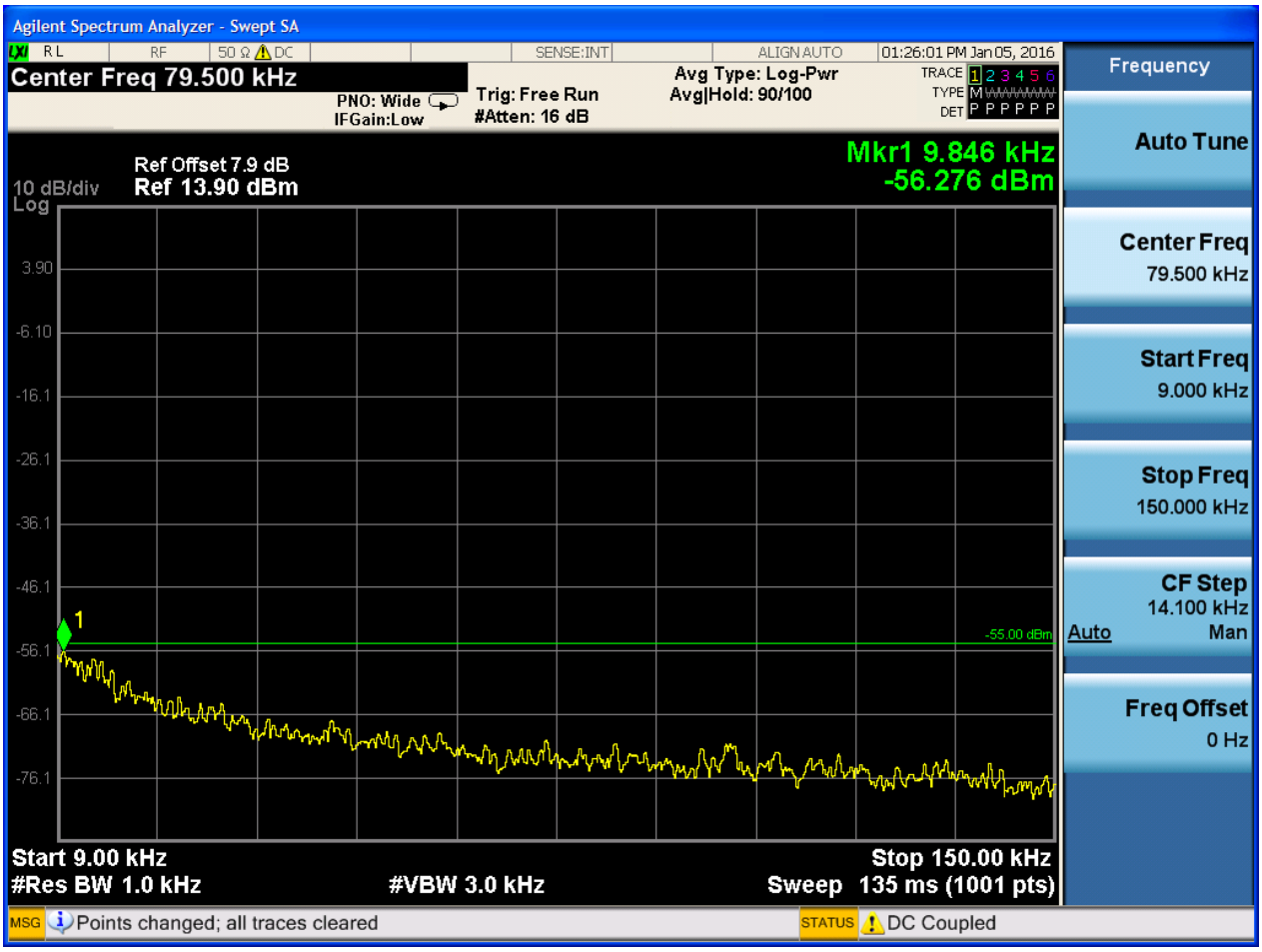
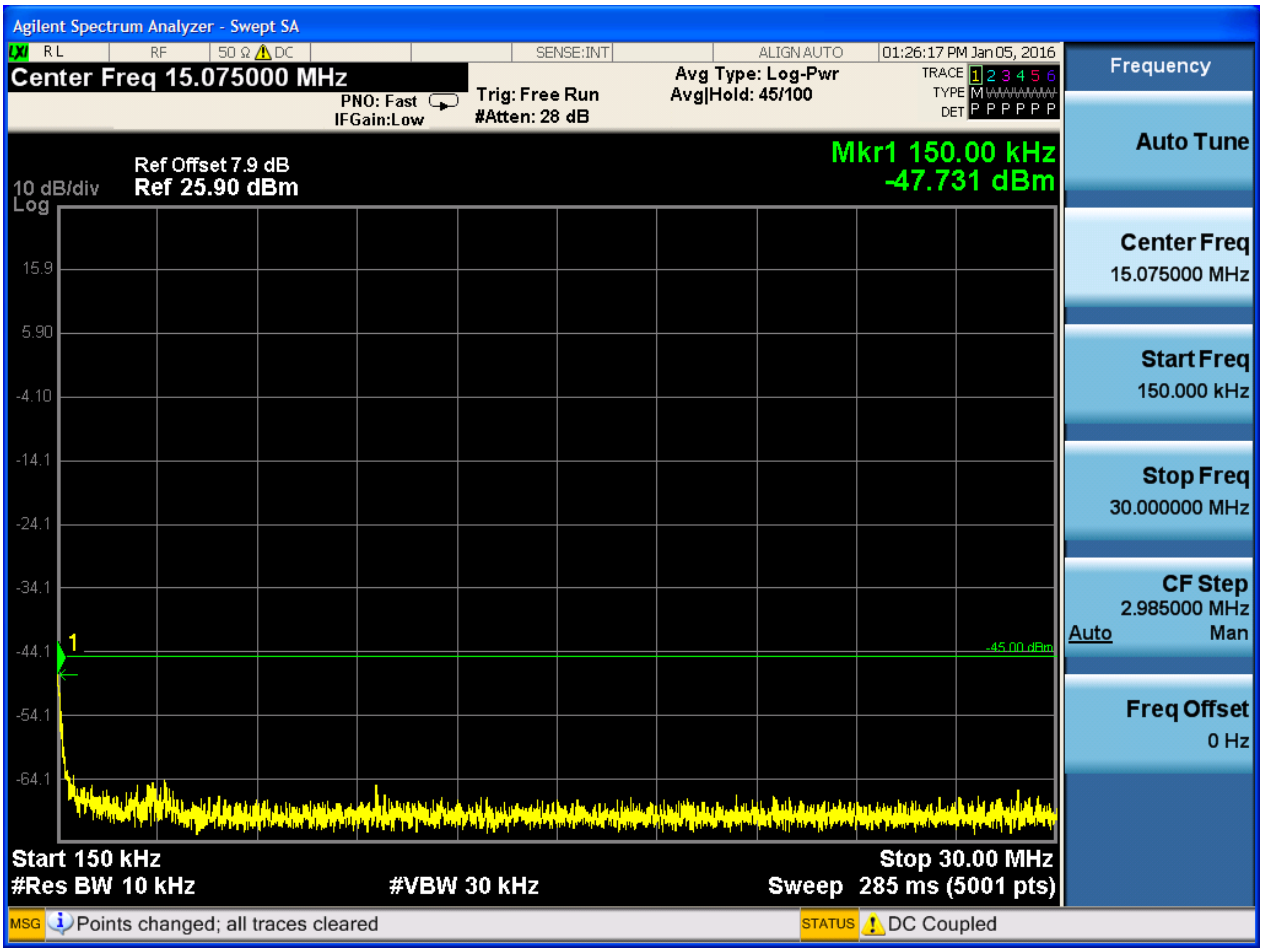
6.1.5.2.2.2 Test Channel = MCH

6.1.5.2.2.2.1 Test RB = RB1#0



Copyright © Huawei Technologies Co., Ltd.



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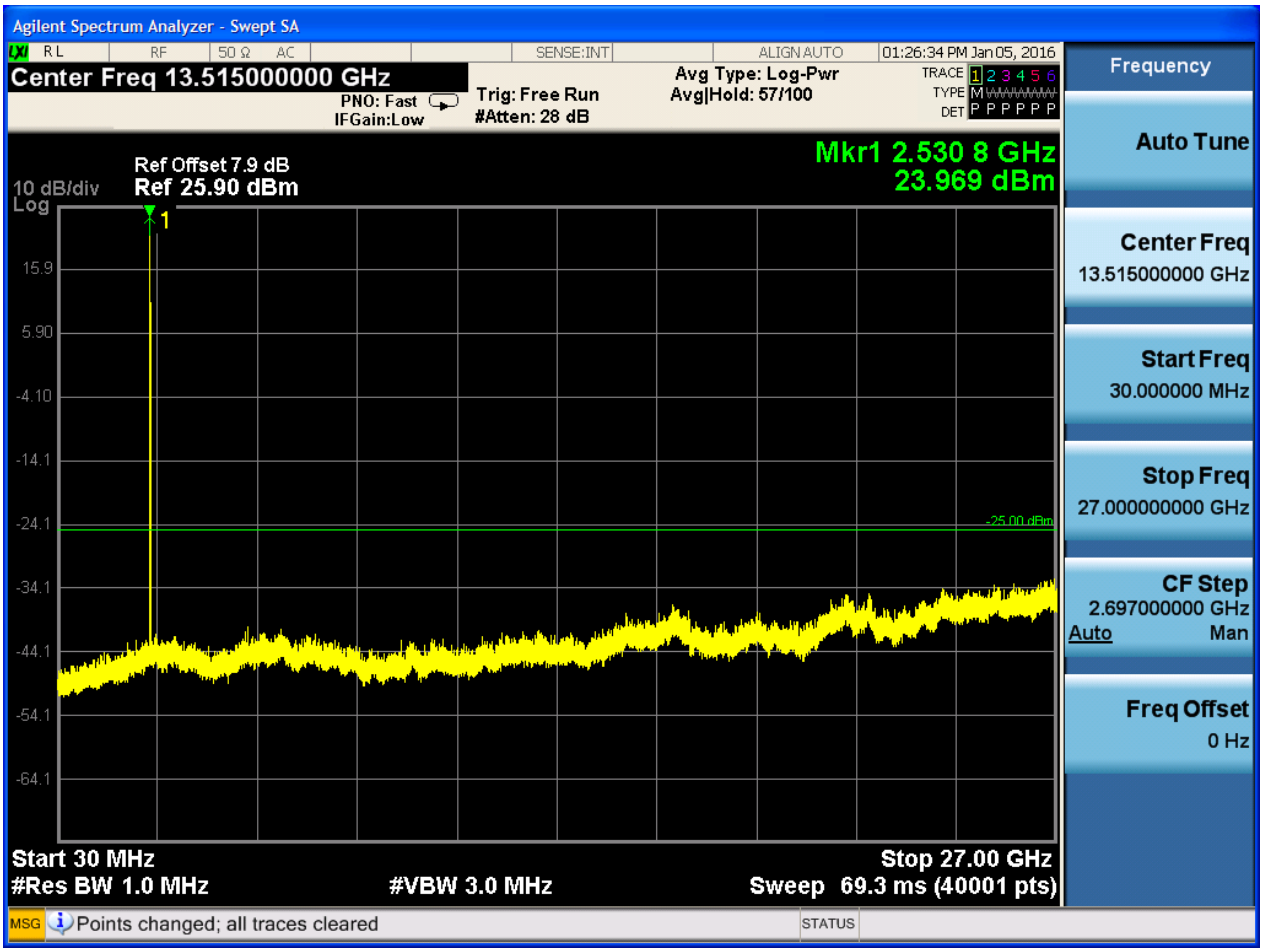

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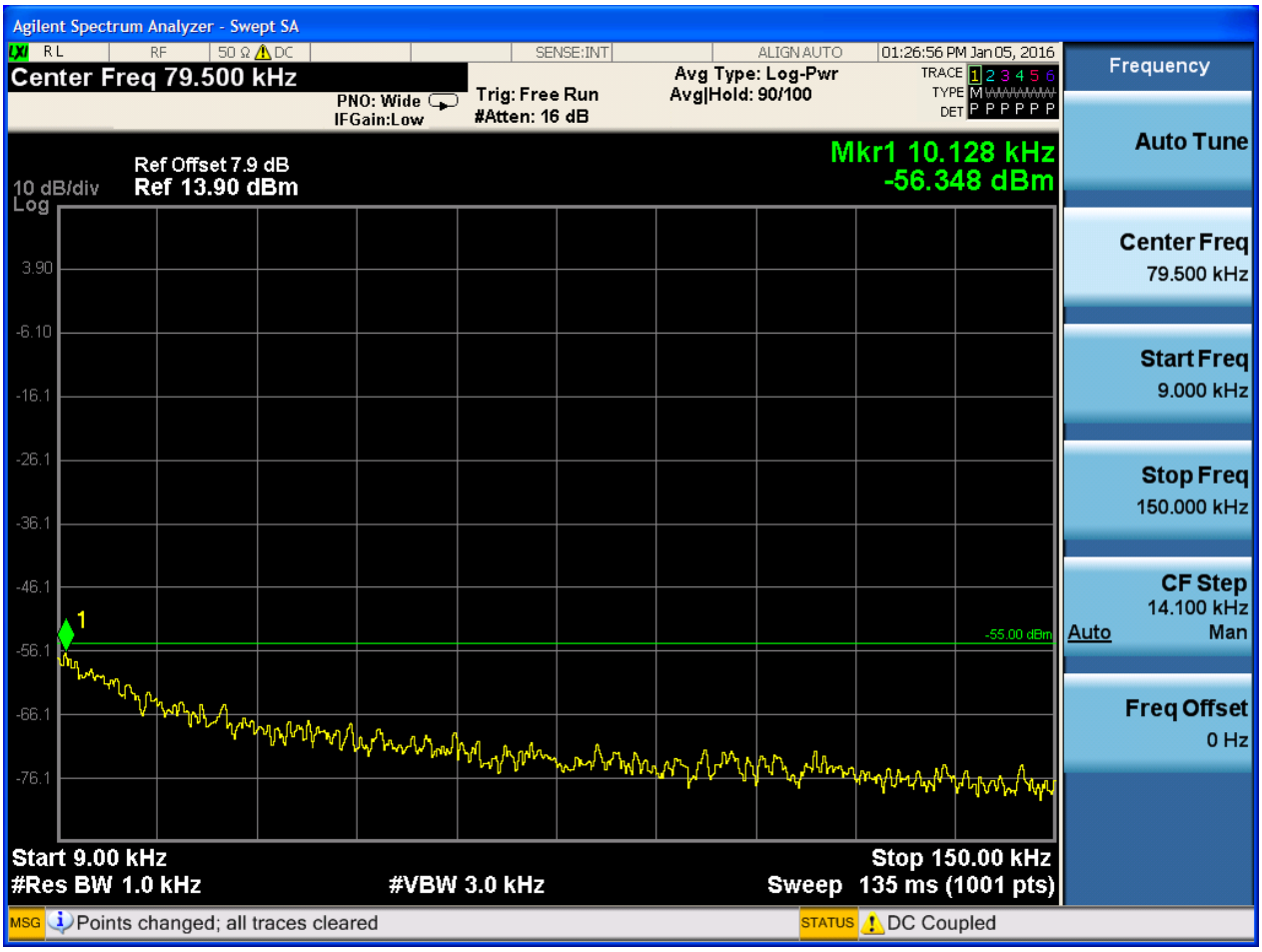
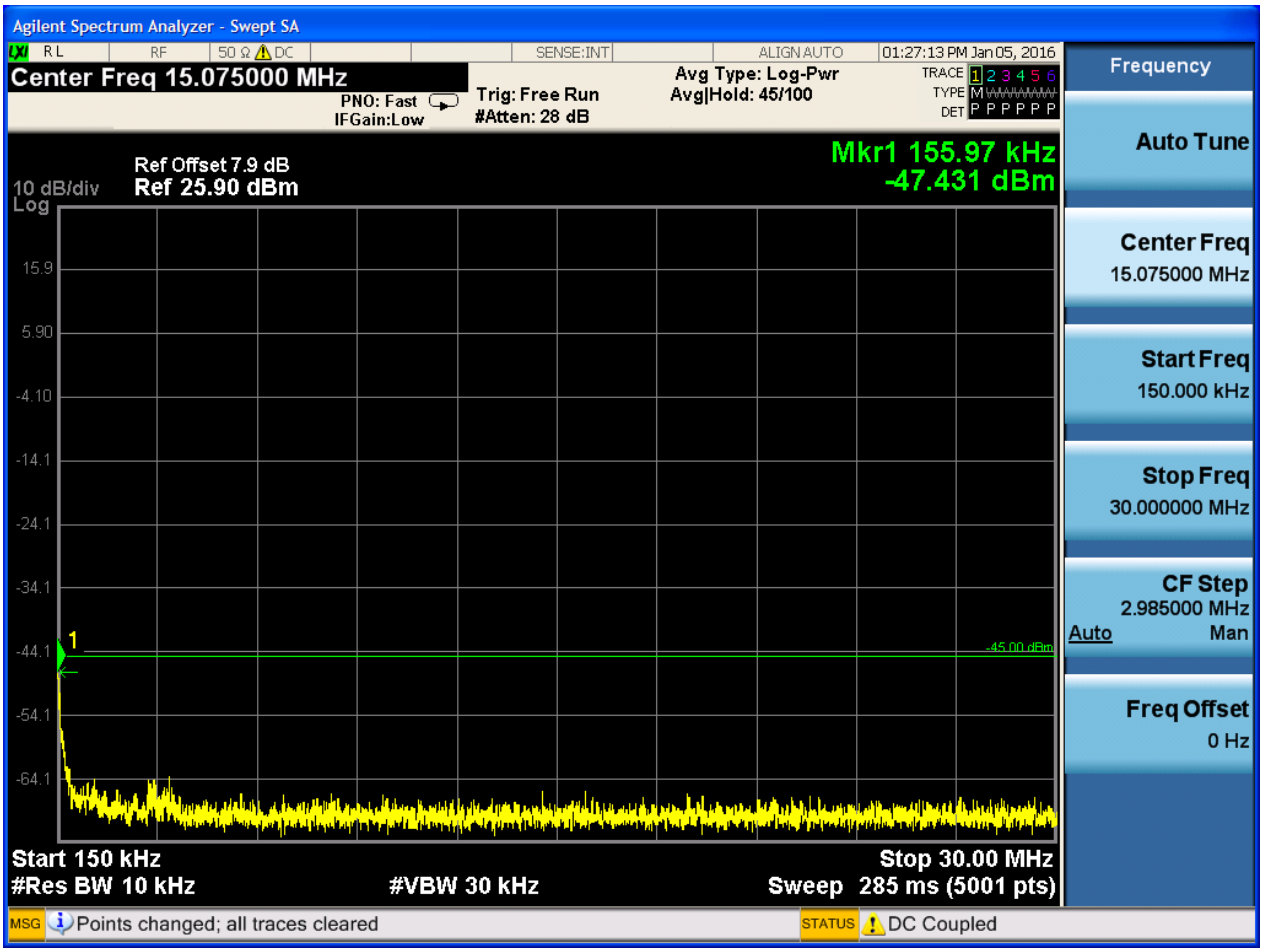
6.1.5.2.2.3 Test Channel = HCH

6.1.5.2.2.3.1 Test RB = RB1#0



Copyright © Huawei Technologies Co., Ltd.



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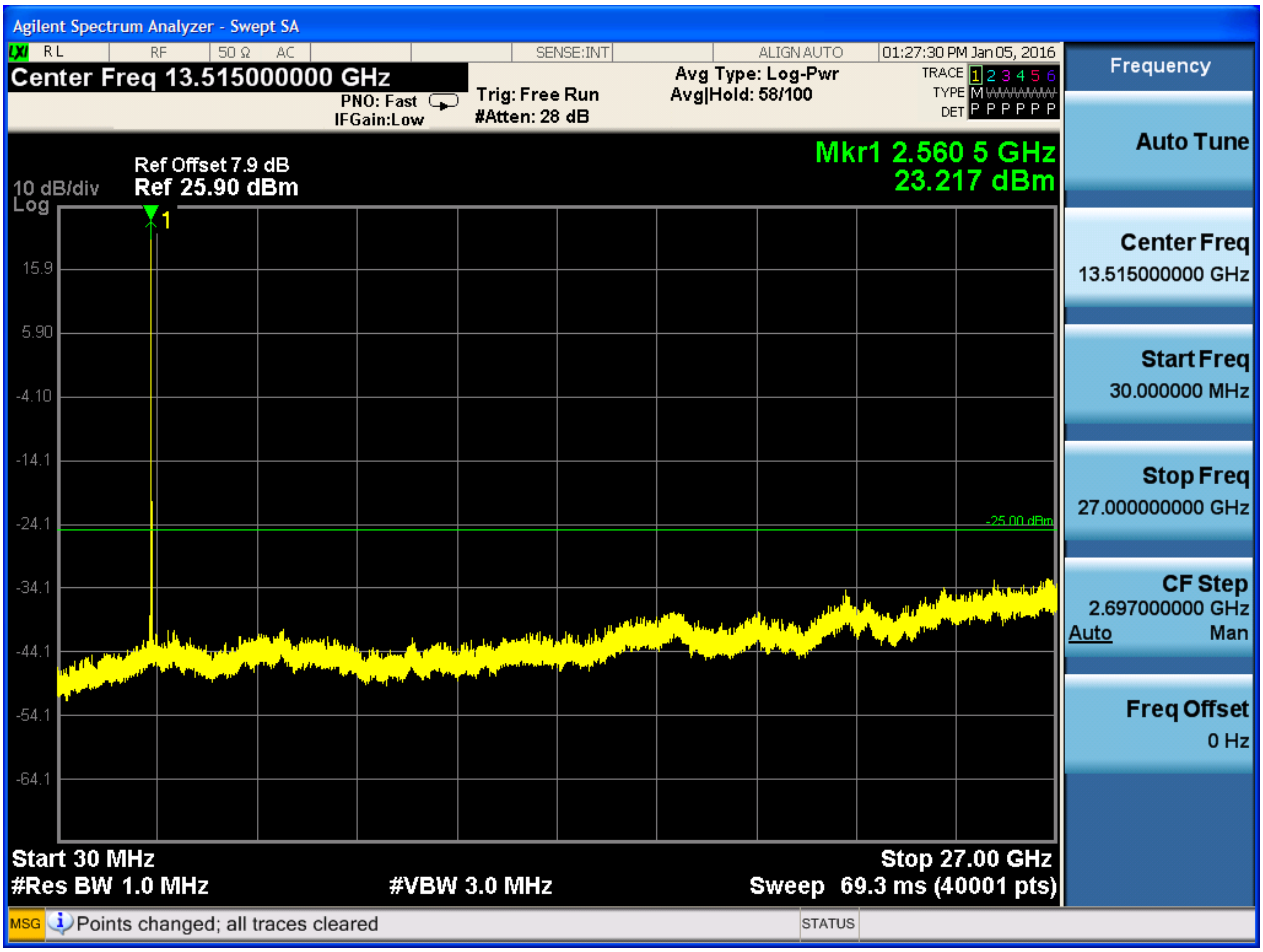

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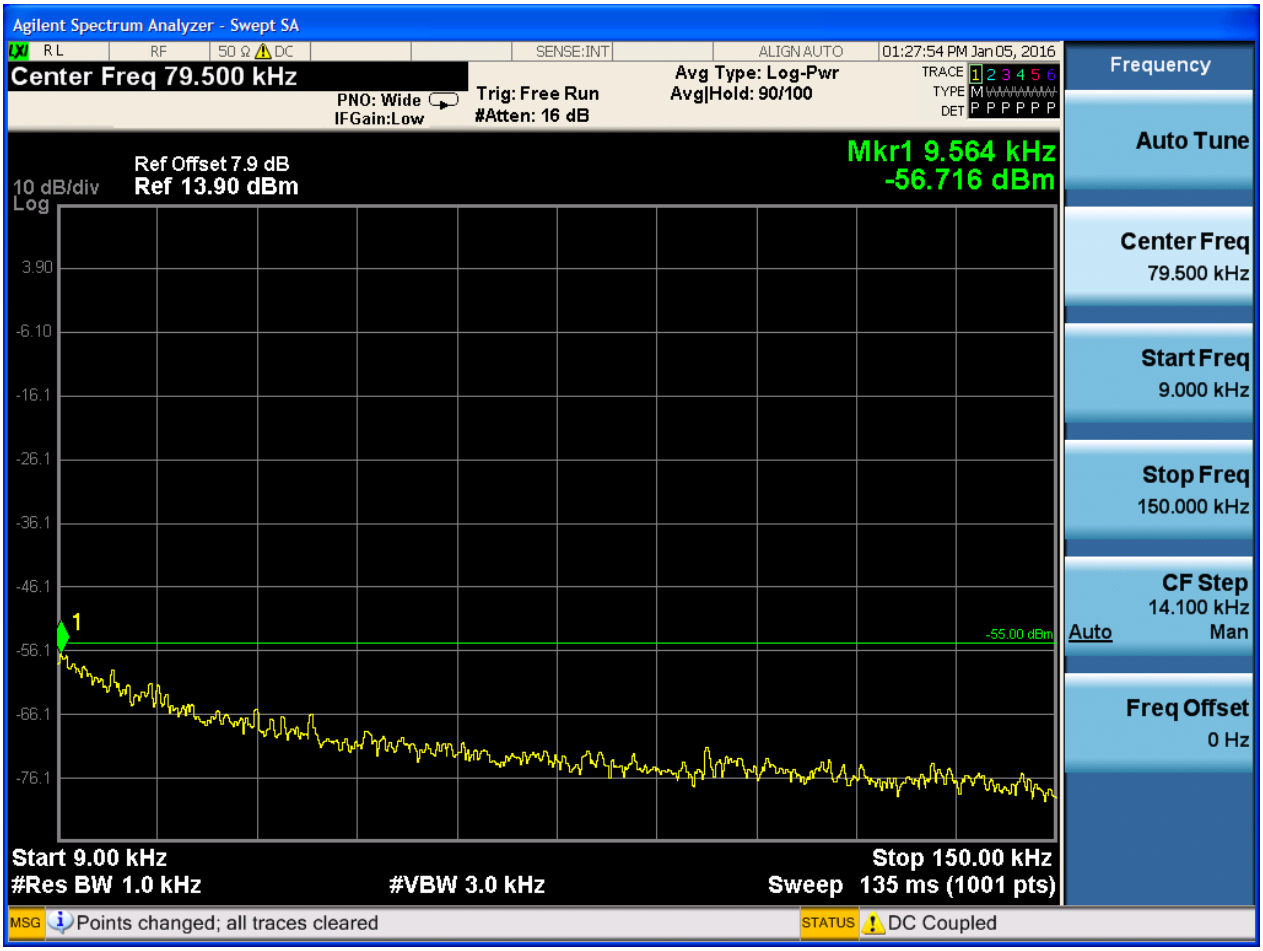
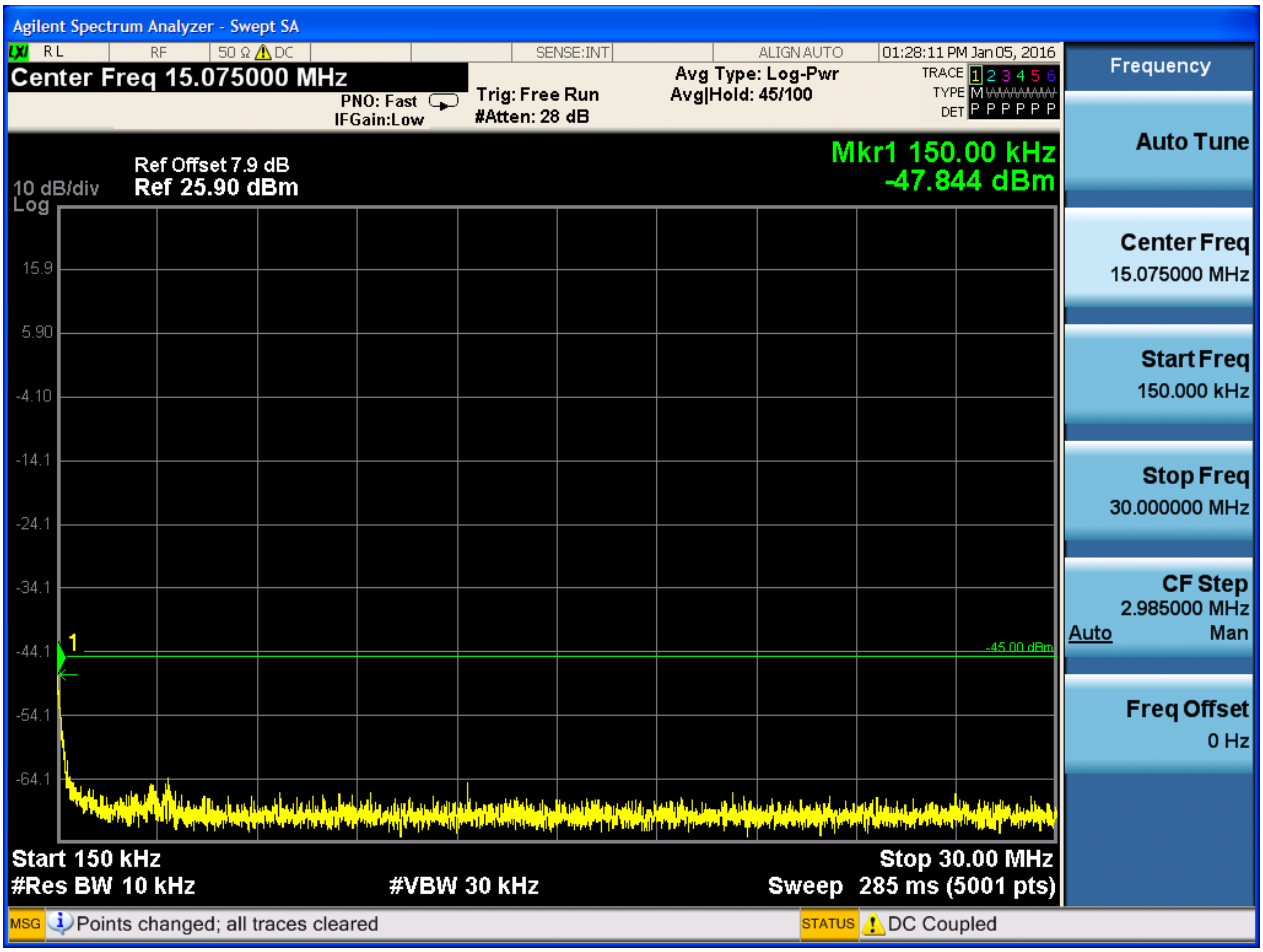
6.1.5.2.3 Test Bandwidth = 15

6.1.5.2.3.1 Test Channel = LCH

6.1.5.2.3.1.1 Test RB = RB1#0



Copyright © Huawei Technologies Co., Ltd.



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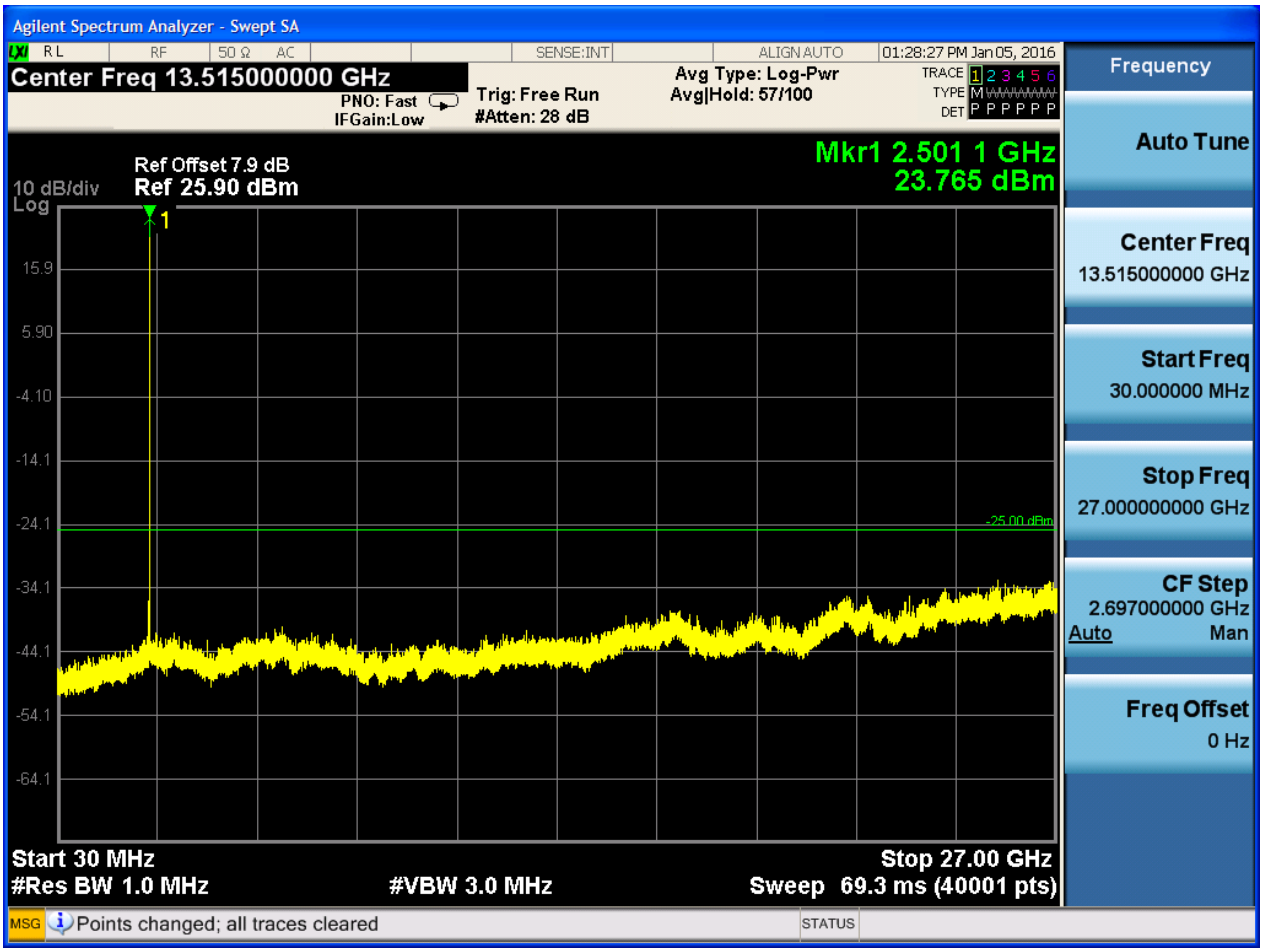

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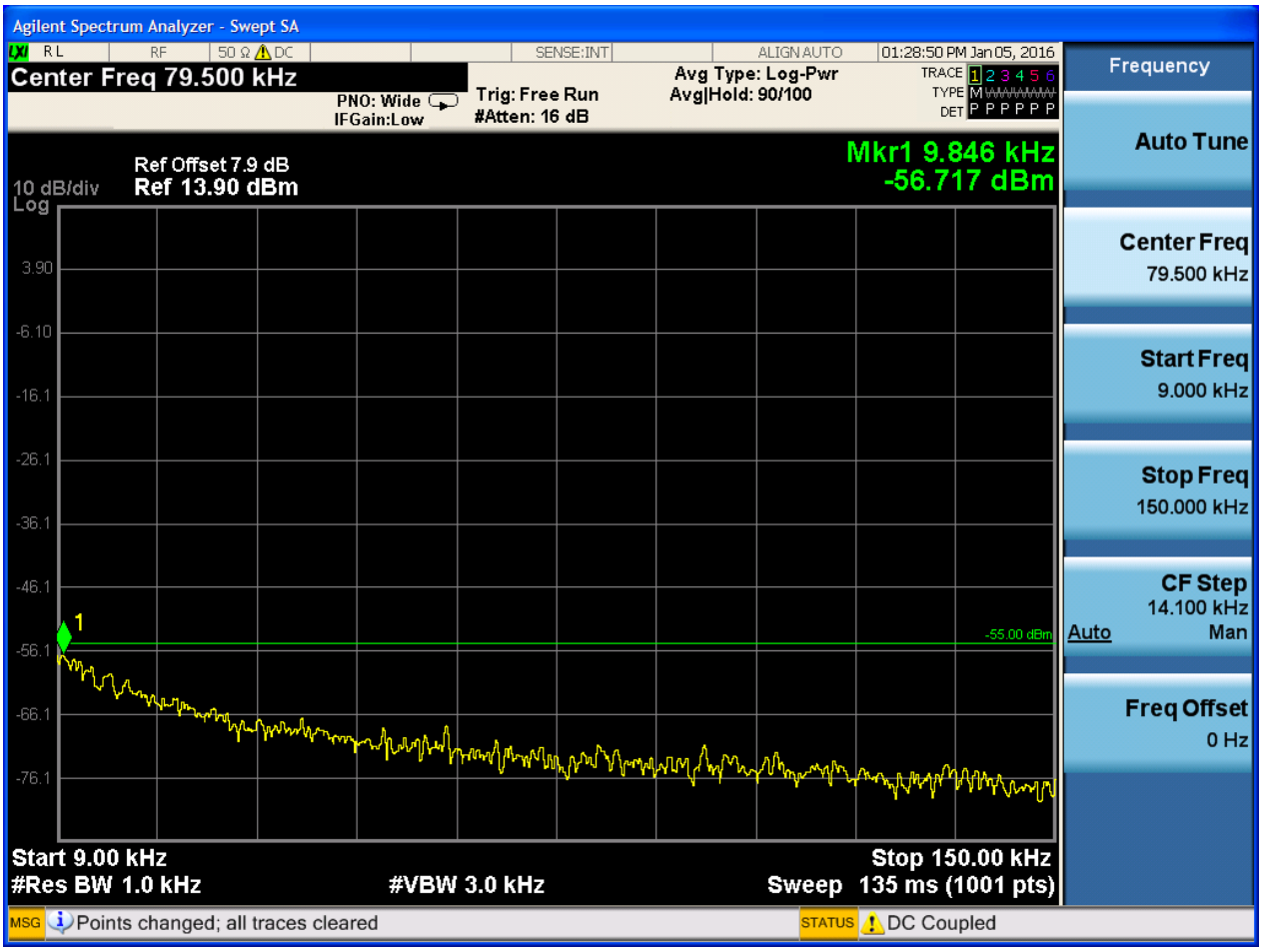
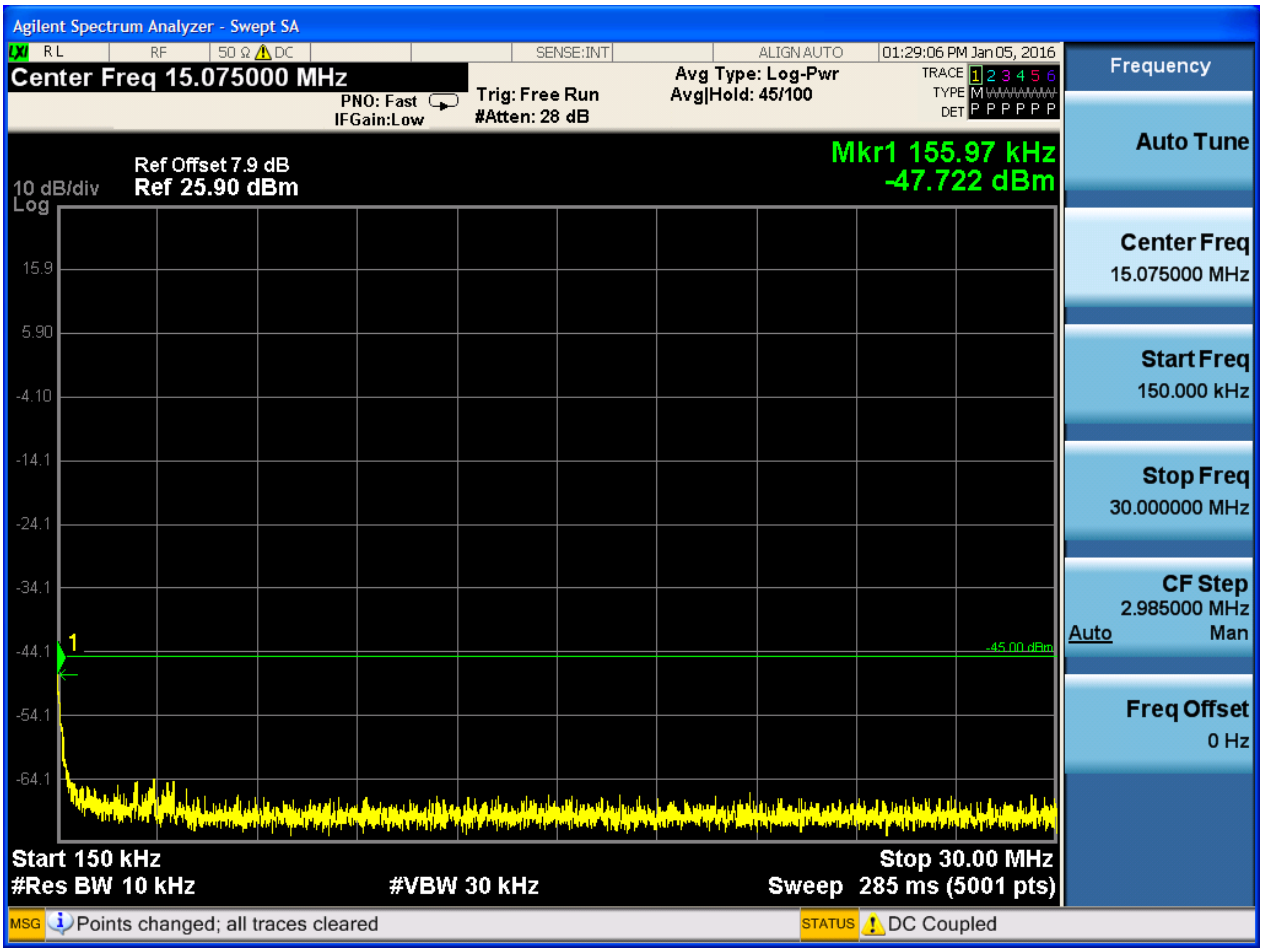
6.1.5.2.3.2 Test Channel = MCH

6.1.5.2.3.2.1 Test RB = RB1#0



Copyright © Huawei Technologies Co., Ltd.



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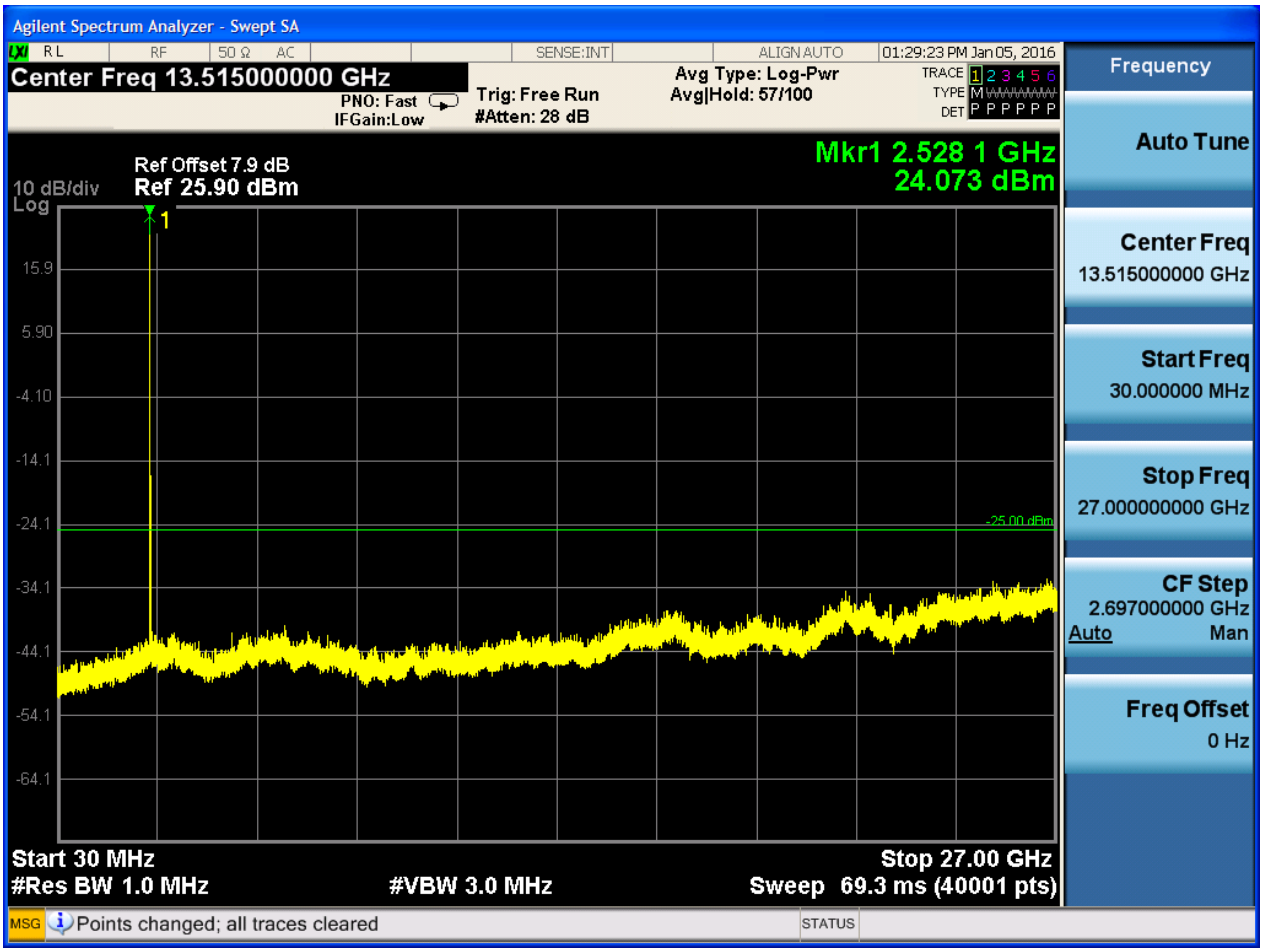

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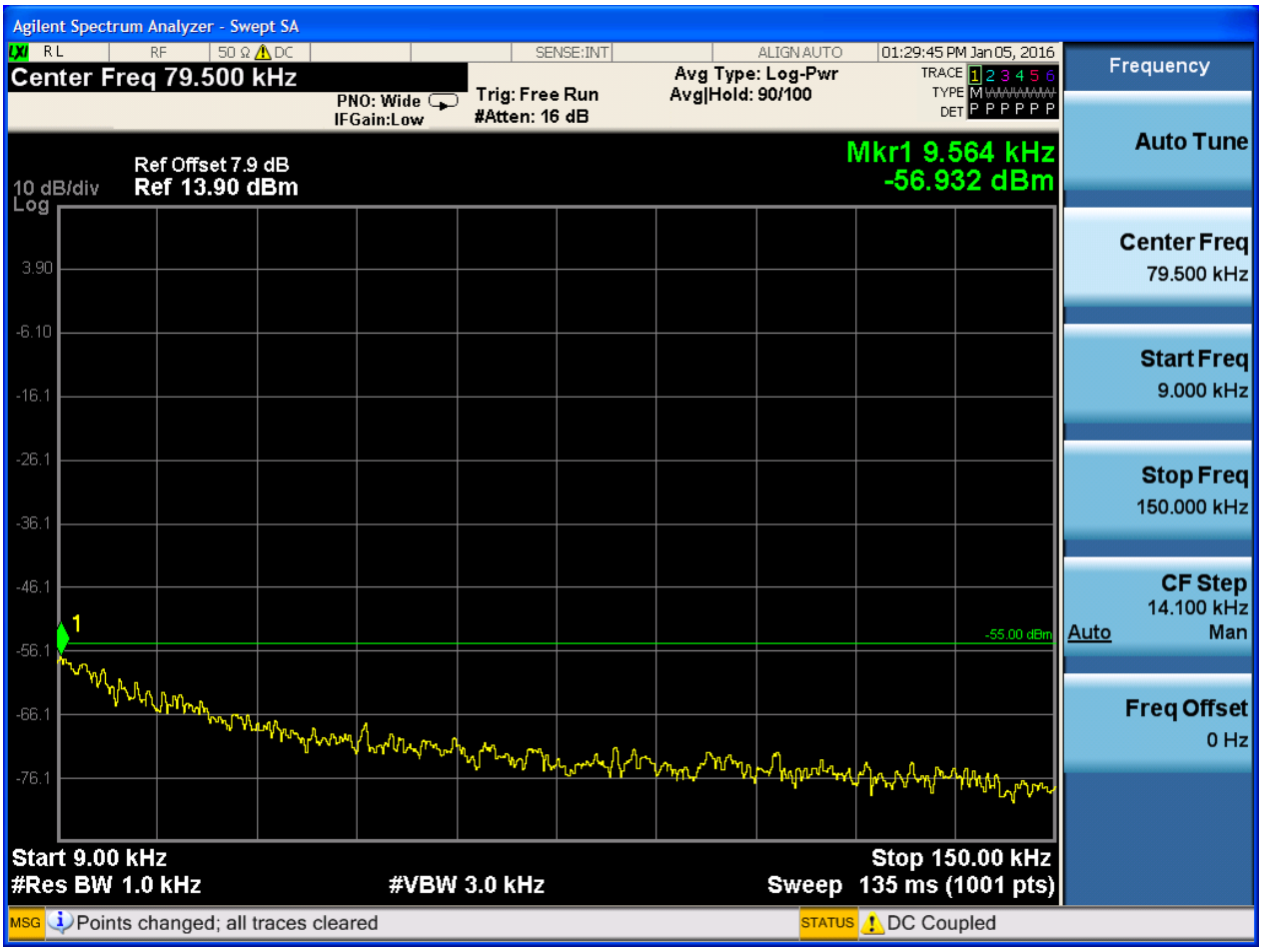
6.1.5.2.3.3 Test Channel = HCH

6.1.5.2.3.3.1 Test RB = RB1#0



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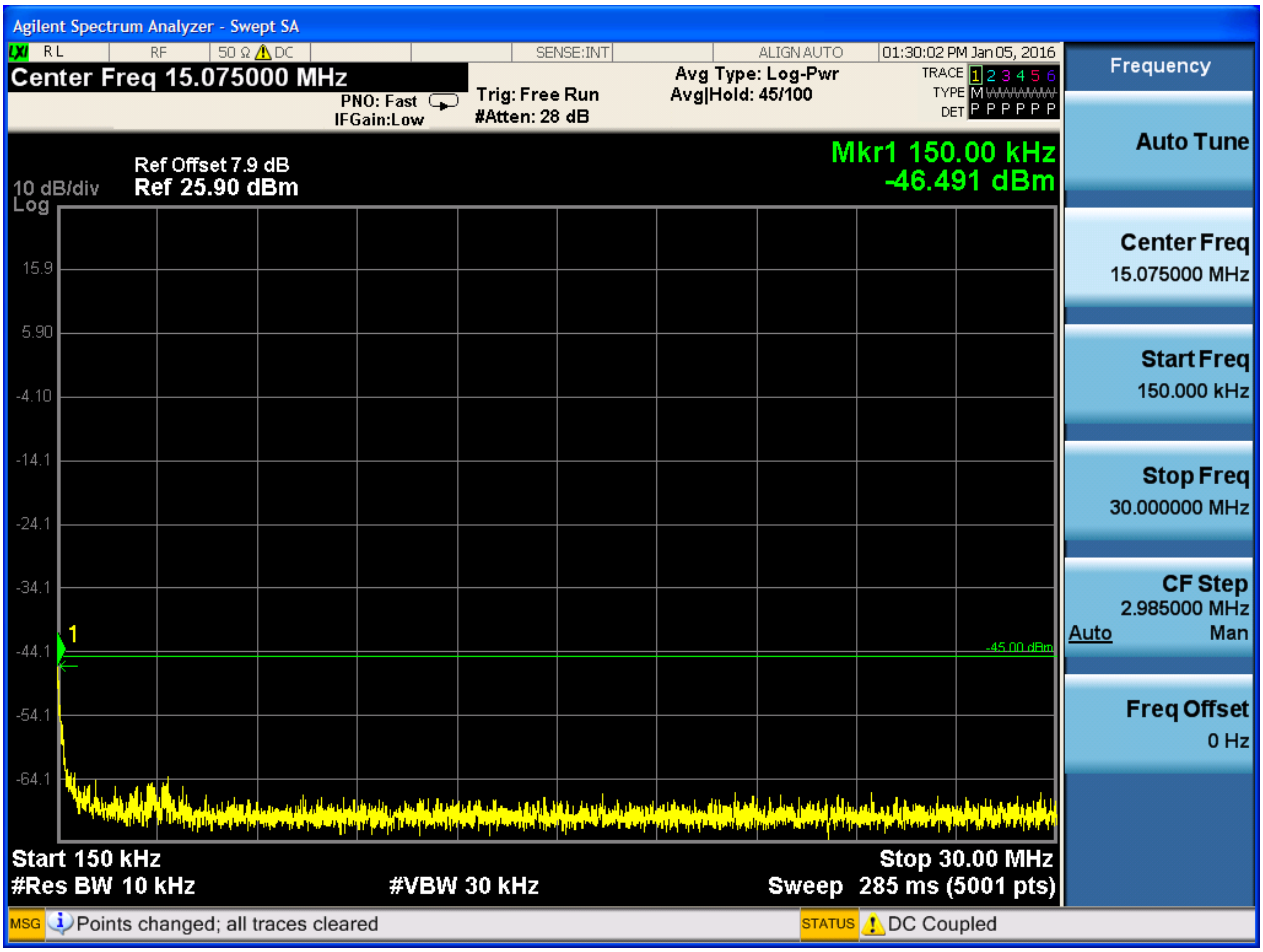

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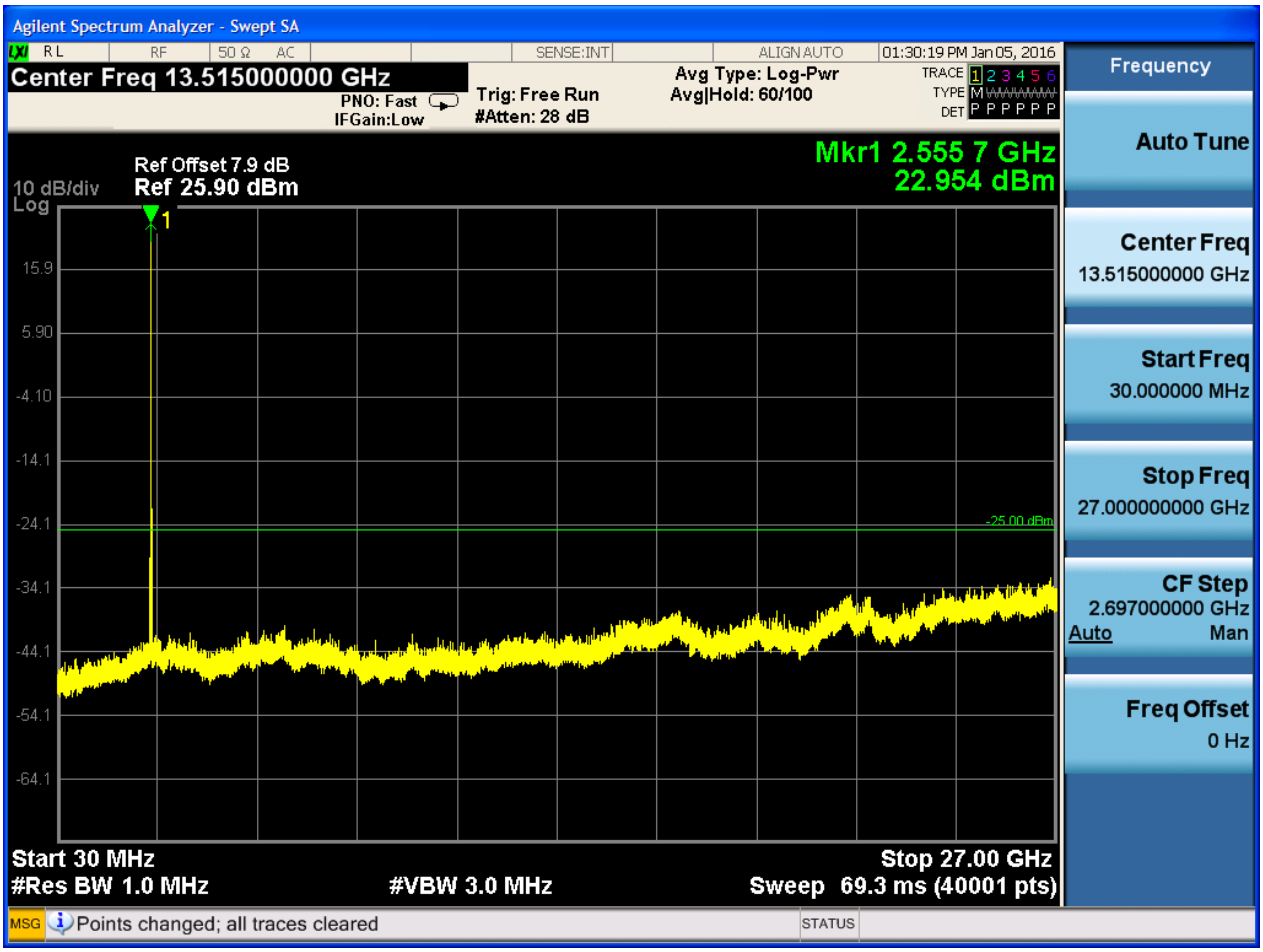

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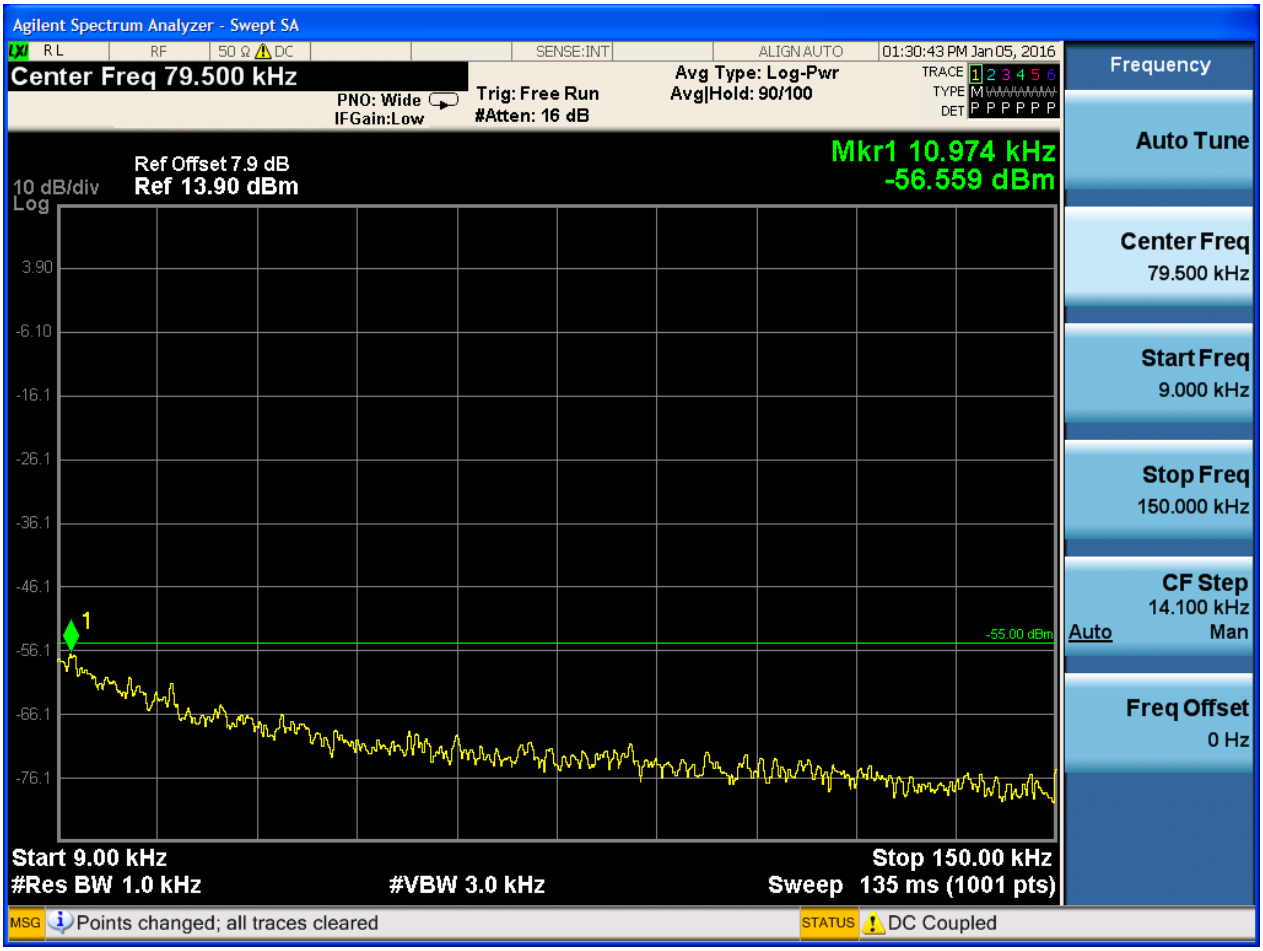
6.1.5.2.4 Test Bandwidth = 20

6.1.5.2.4.1 Test Channel = LCH

6.1.5.2.4.1.1 Test RB = RB1#0



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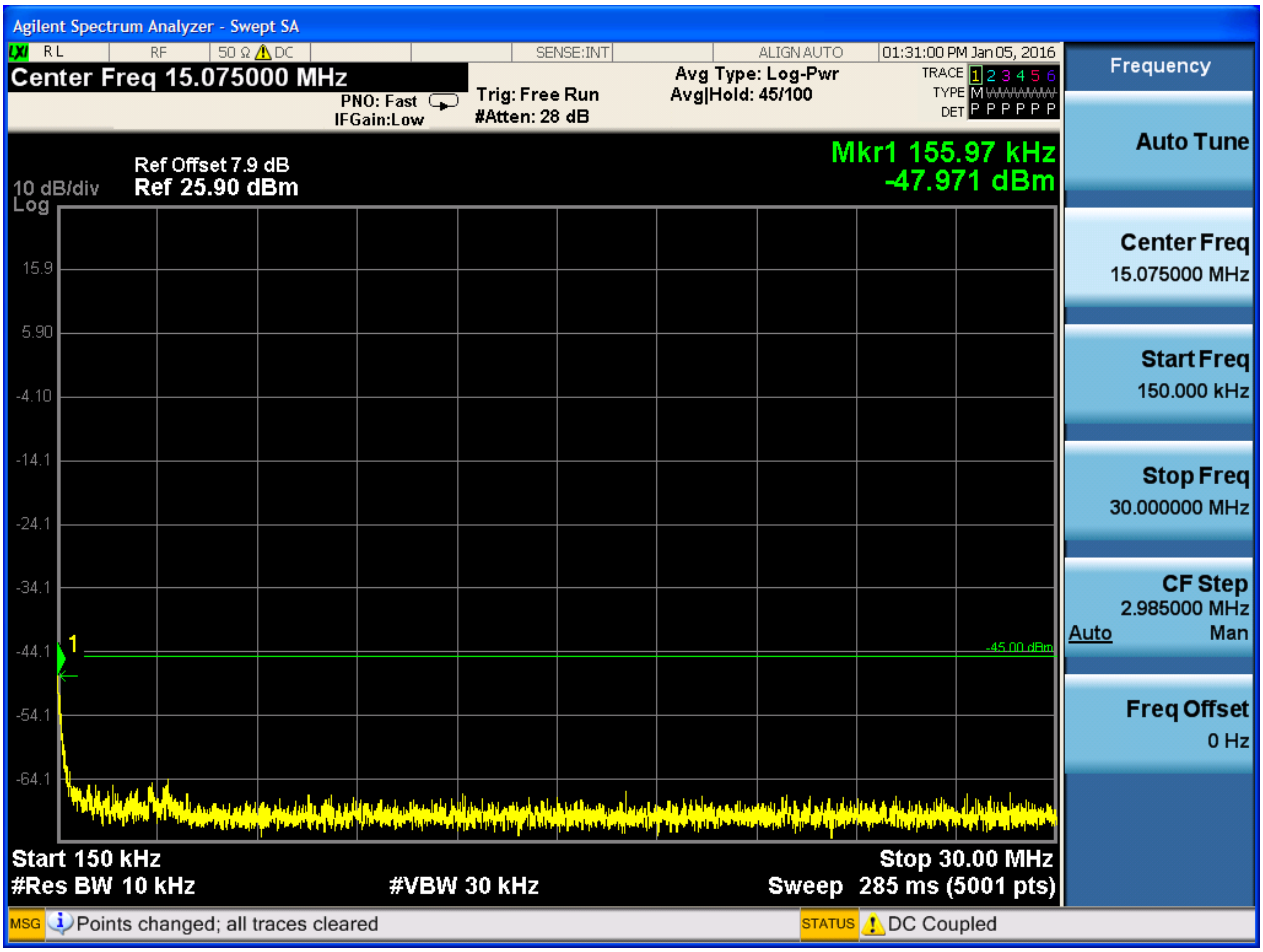

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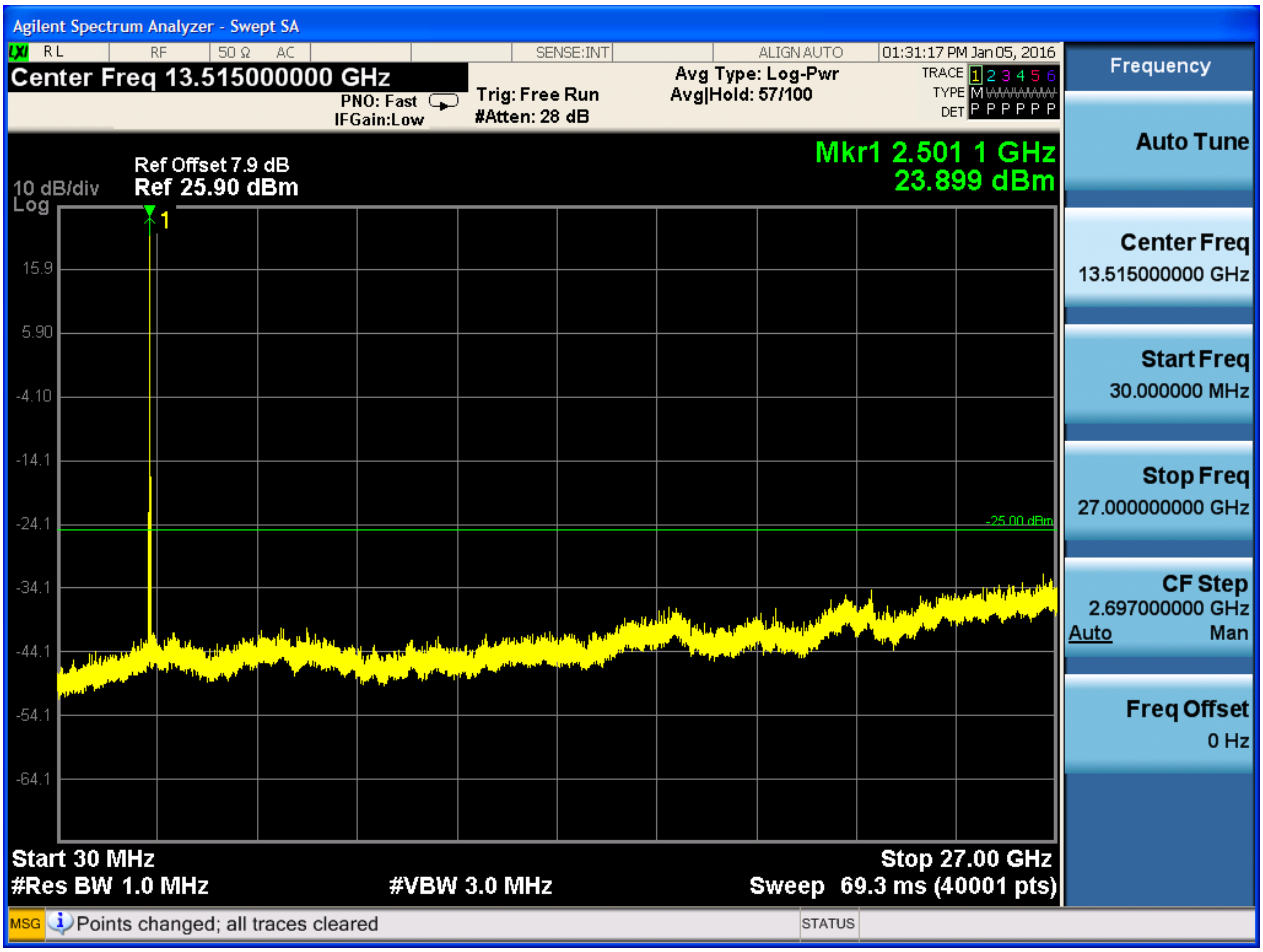
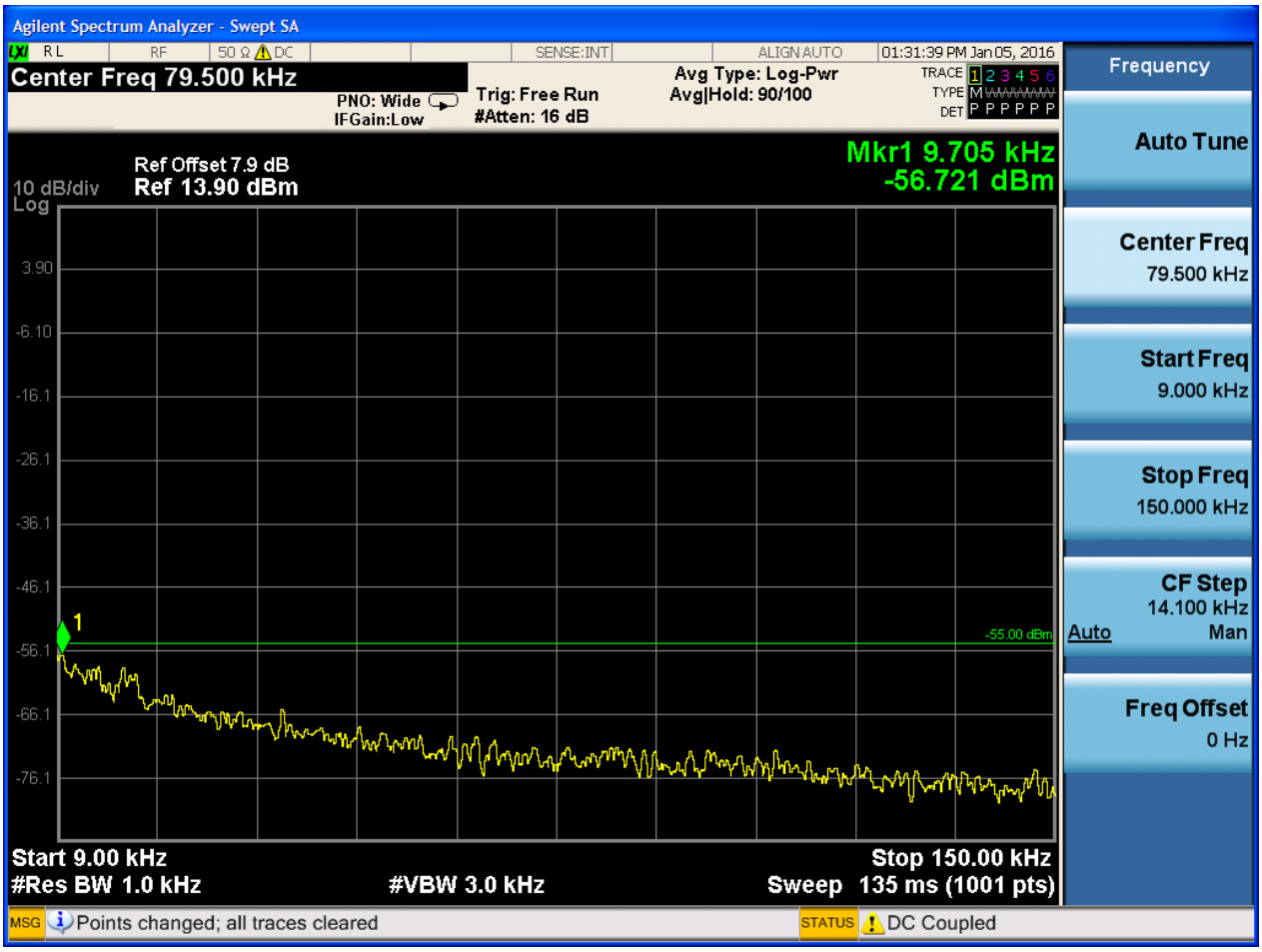

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
01:31:17 PM Jan 05, 2016
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 57/100
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P P
Ref Offset 7.9 dB
10 dB/div
Log
Ref 25.90 dBm
Mkr1 2.501 1 GHz
23.899 dBm
15.9
5.90
-4.10
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
-25.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.3 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
MSG
Points changed; all traces cleared
STATUS

6.1.5.2.4.2 Test Channel = MCH

6.1.5.2.4.2.1 Test RB = RB1#0



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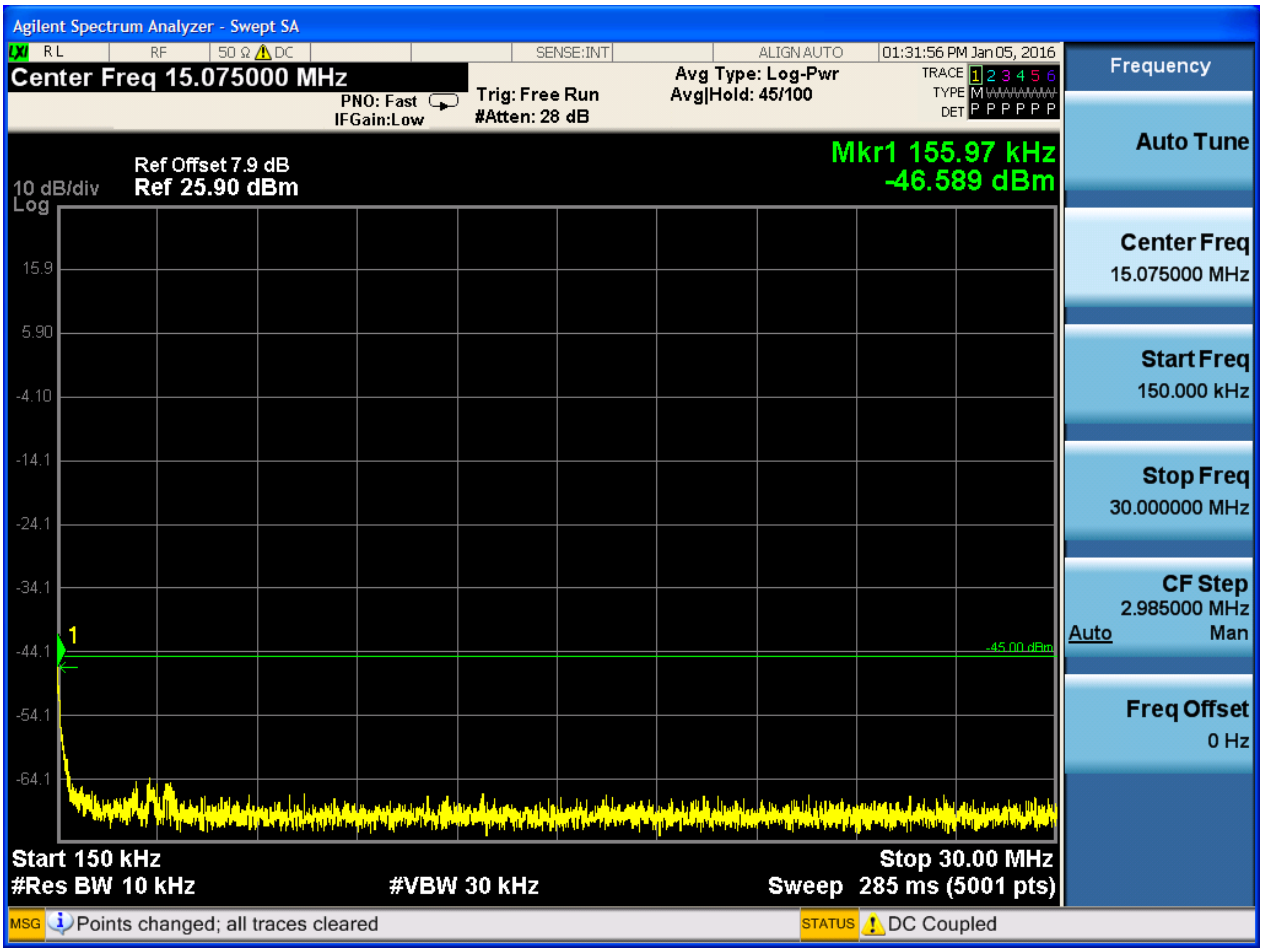

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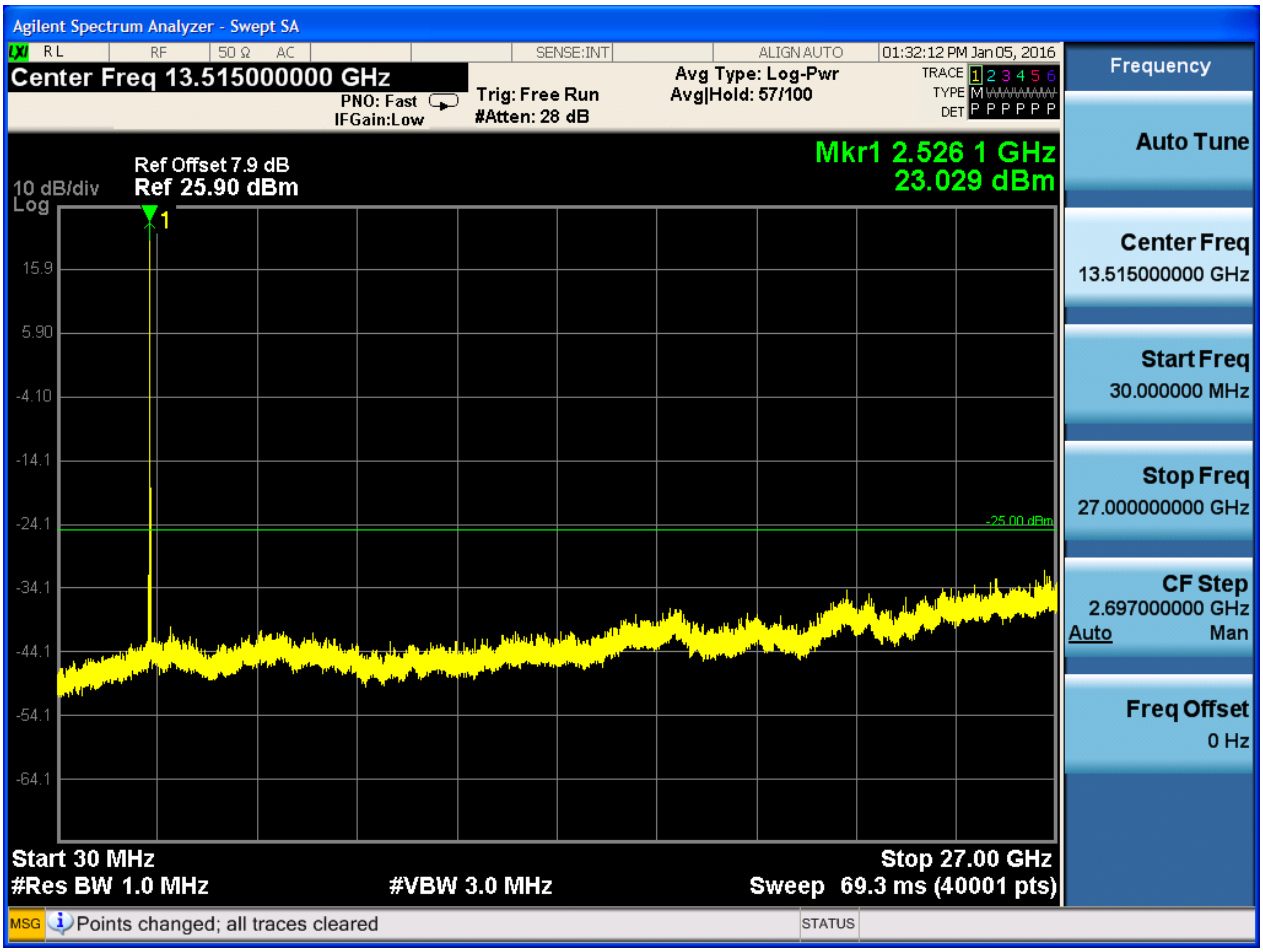
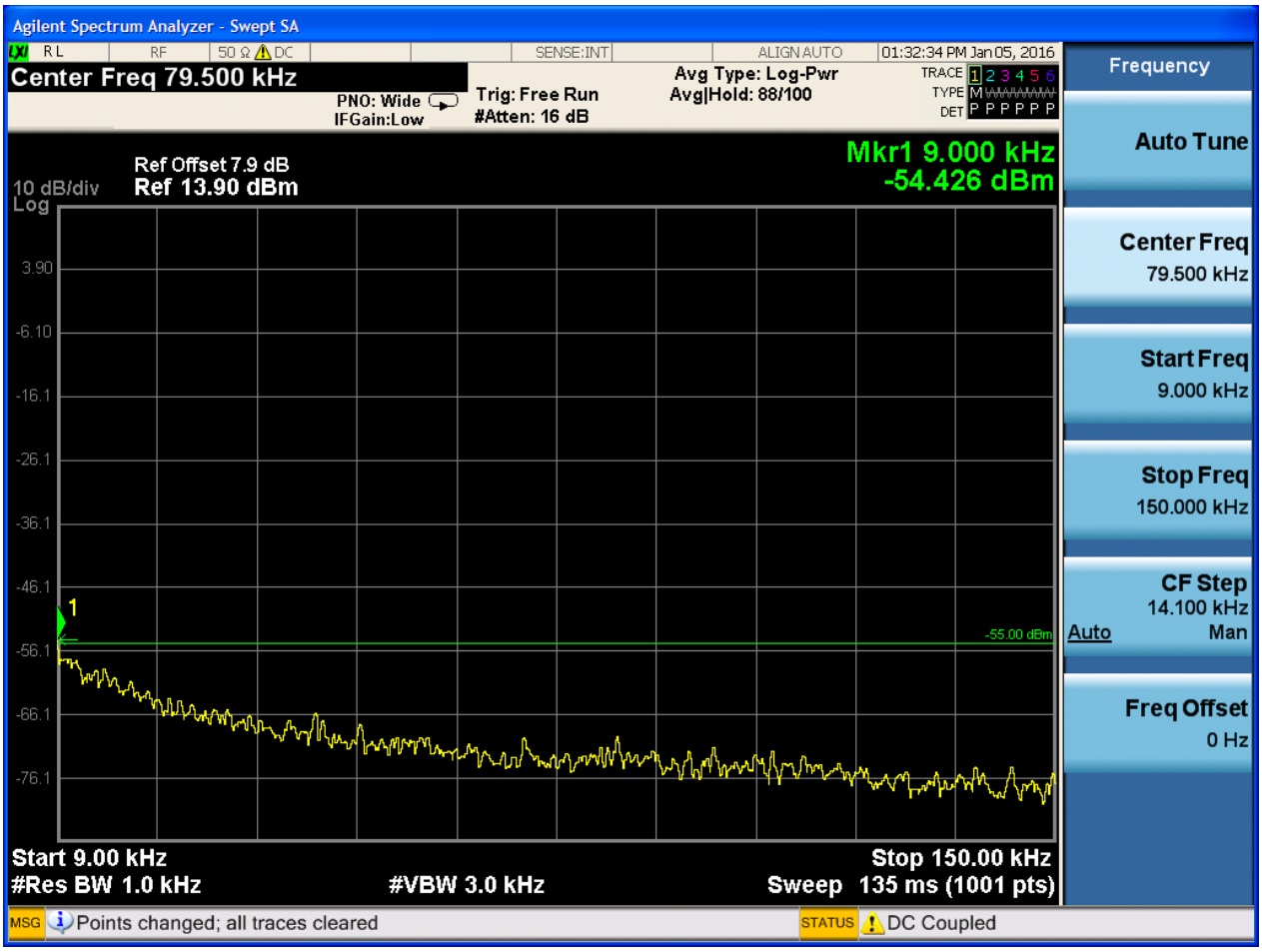

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.515000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 28 dB
Avg Type: Log-Pwr
Avg|Hold: 57/100
01:32:12 PM Jan 05, 2016
Ref Offset 7.9 dB
10 dB/div
Log
Ref 25.90 dBm
Mkr1 2.526 1 GHz
23.029 dBm
15.9
5.90
-4.10
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
-25.00 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 27.00 GHz
Sweep 69.3 ms (40001 pts)
Frequency
Auto Tune
Center Freq
13.515000000 GHz
Start Freq
30.000000 MHz
Stop Freq
27.000000000 GHz
CF Step
2.697000000 GHz
Auto
Man
Freq Offset
0 Hz
Points changed; all traces cleared

6.1.5.2.4.3 Test Channel = HCH

6.1.5.2.4.3.1 Test RB = RB1#0



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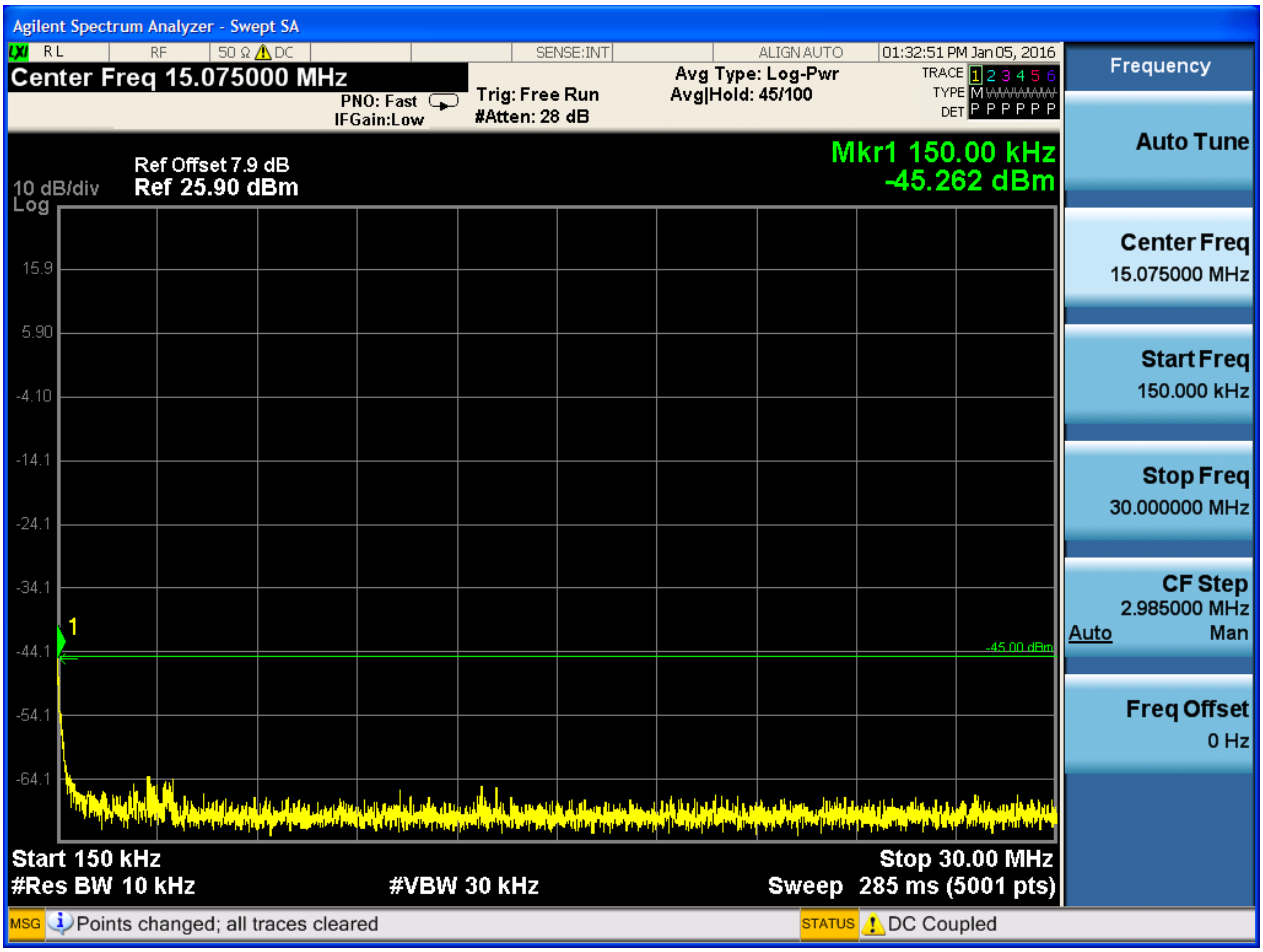

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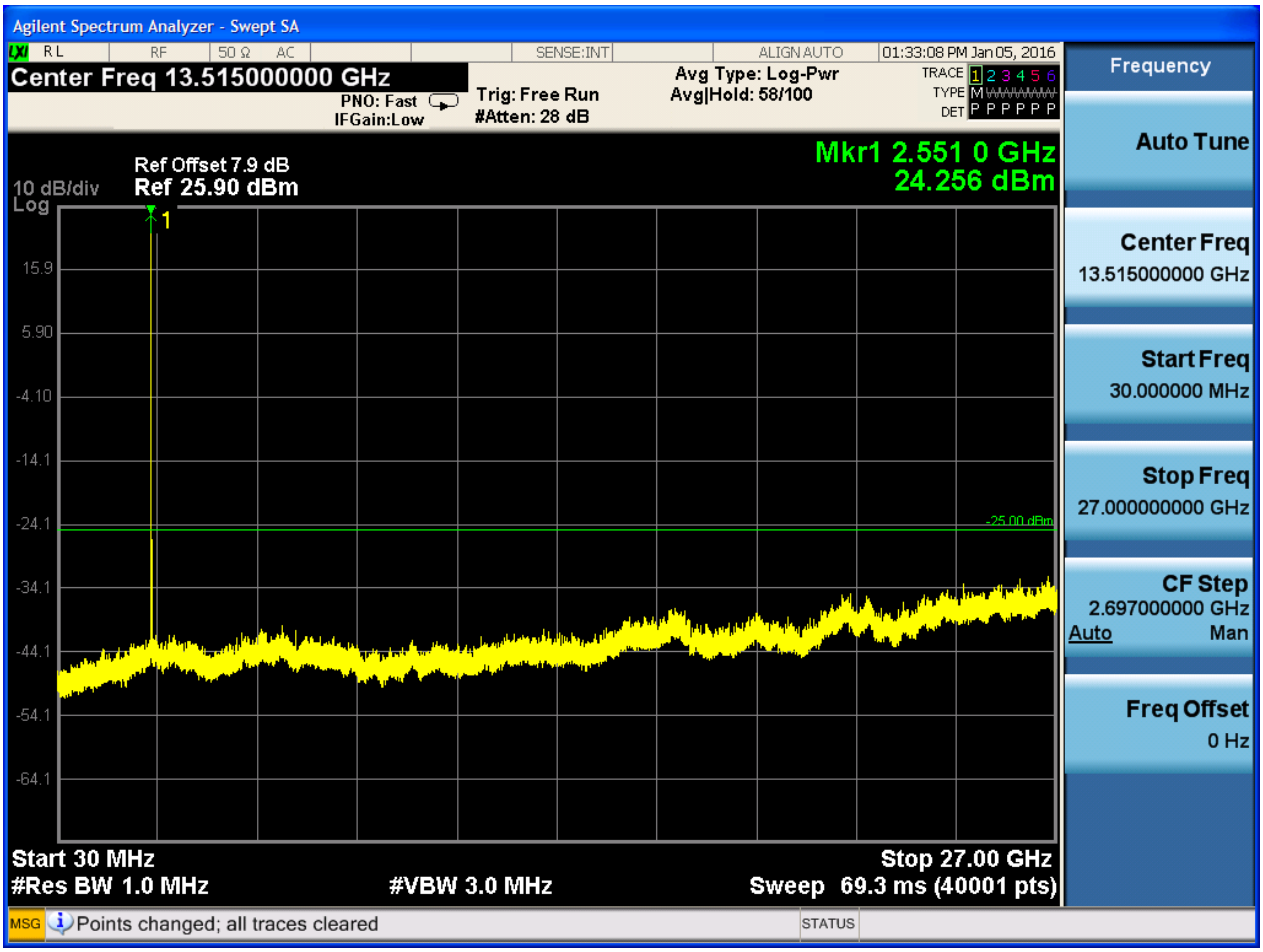

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7Appendix_G: Field Strength of Spurious Radiation

Note:

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

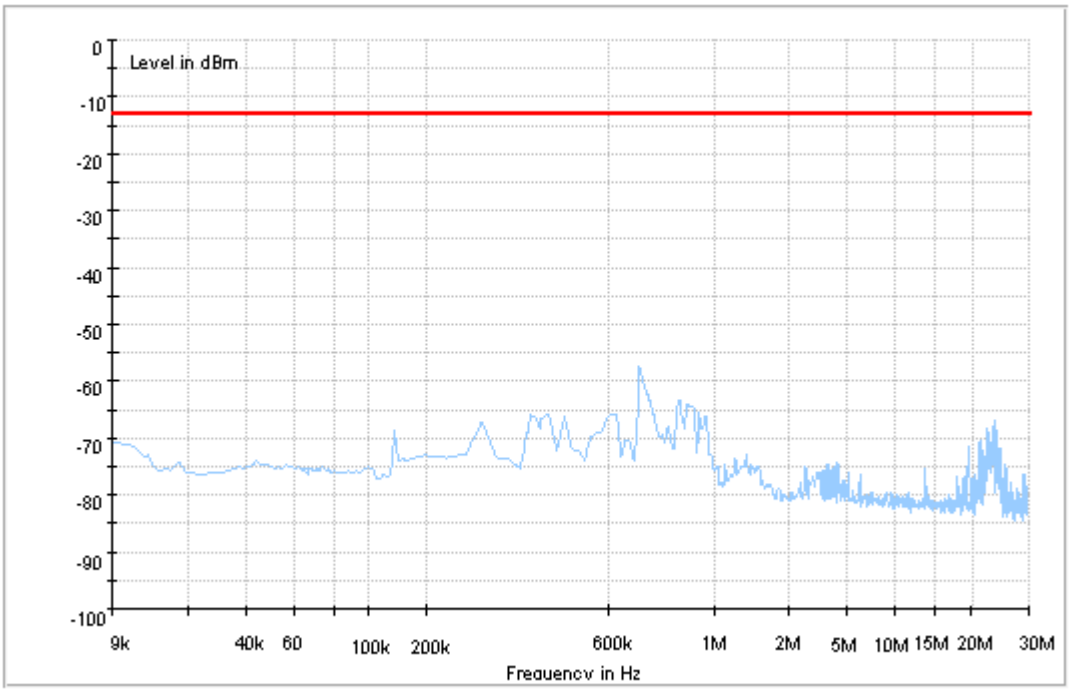
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND2

7.1.1.1 Test Bandwidth = 1.4



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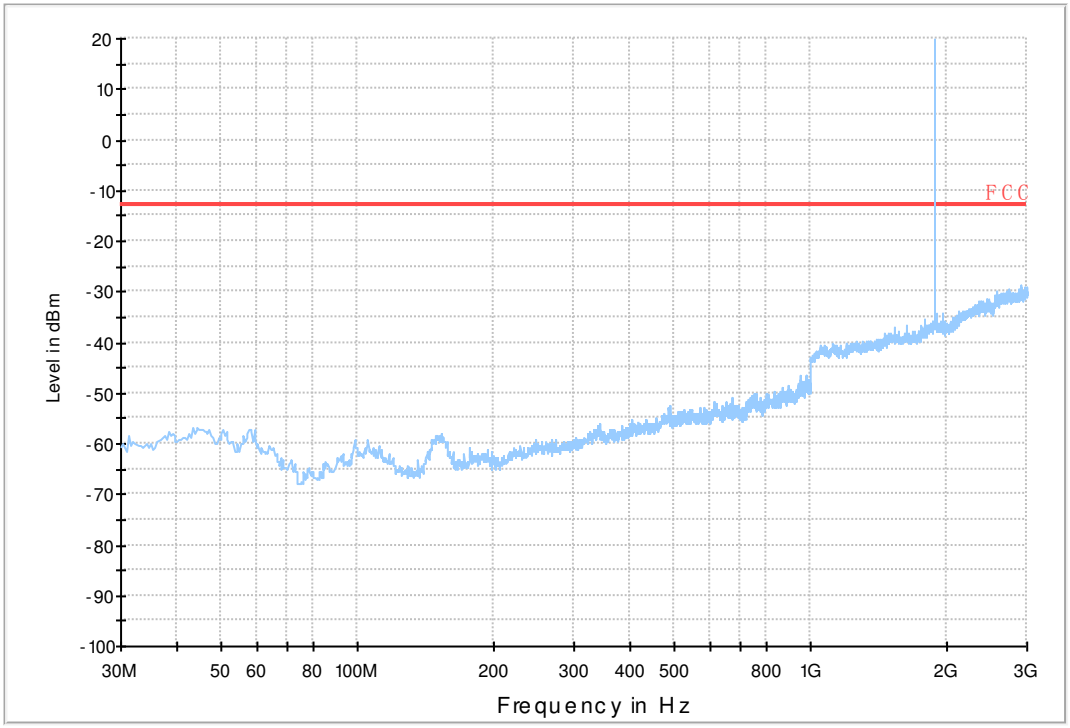
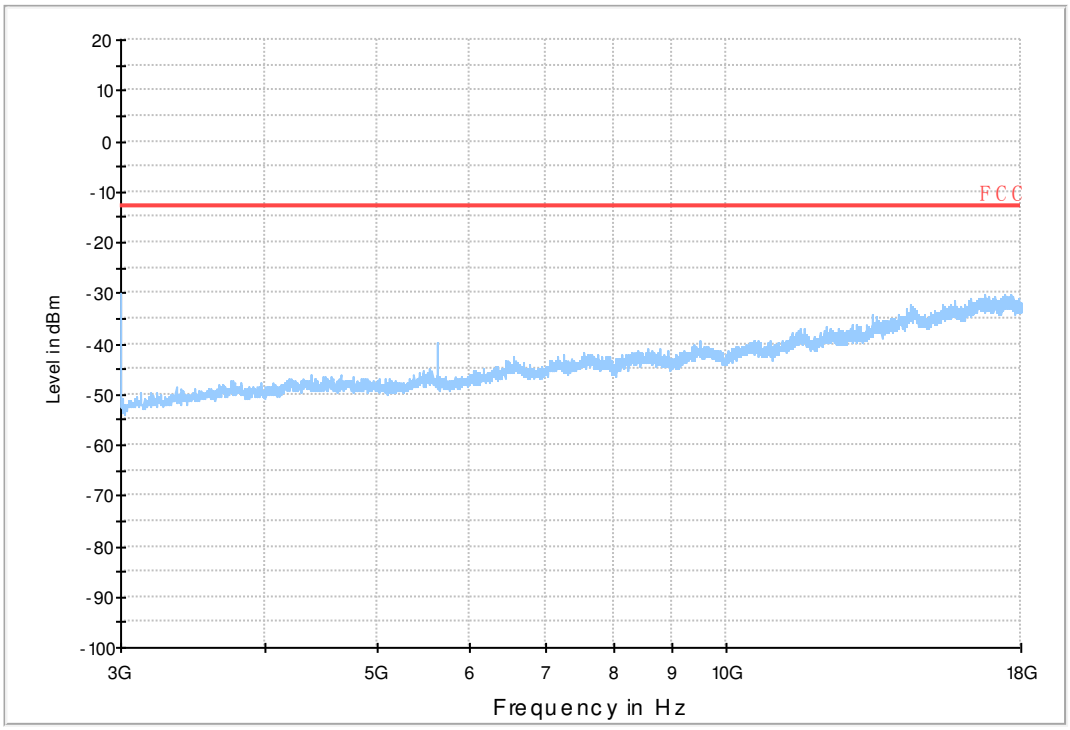
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



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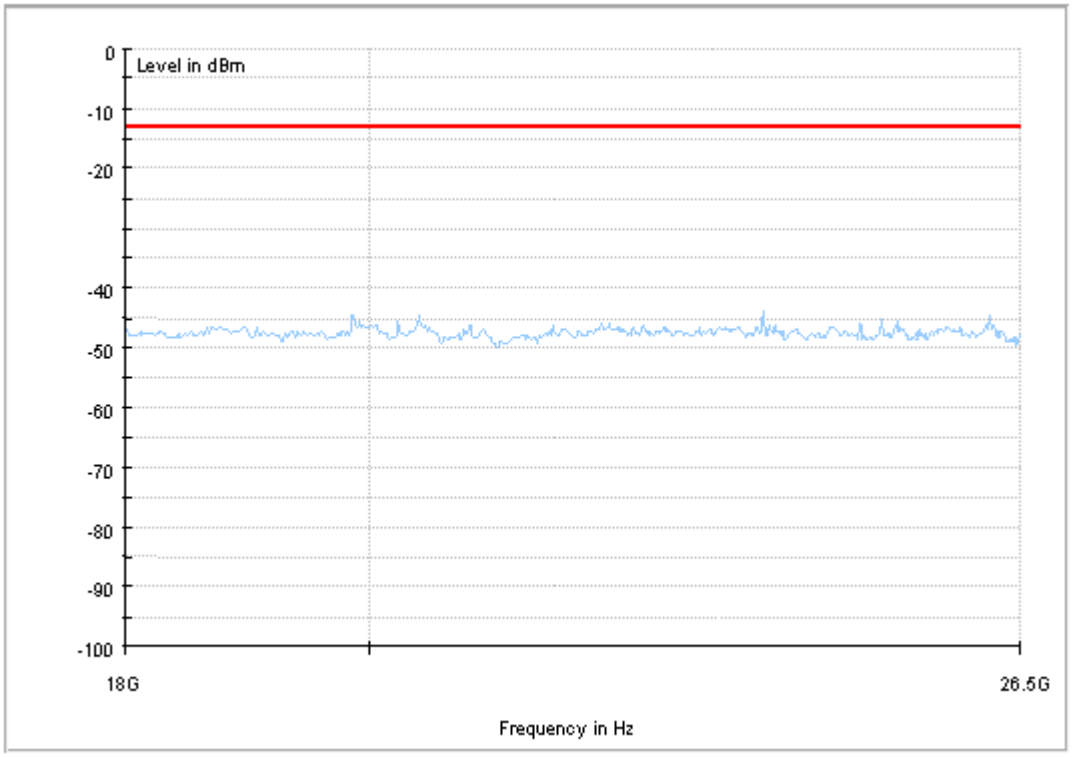

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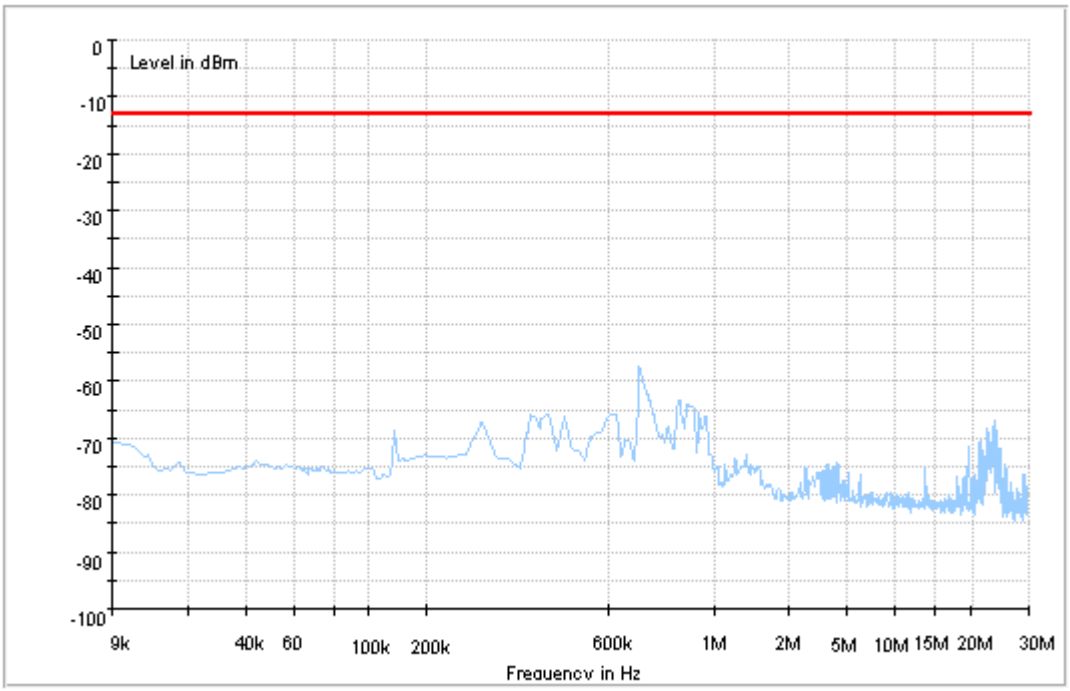
7.1.1.2 Test Bandwidth = 20



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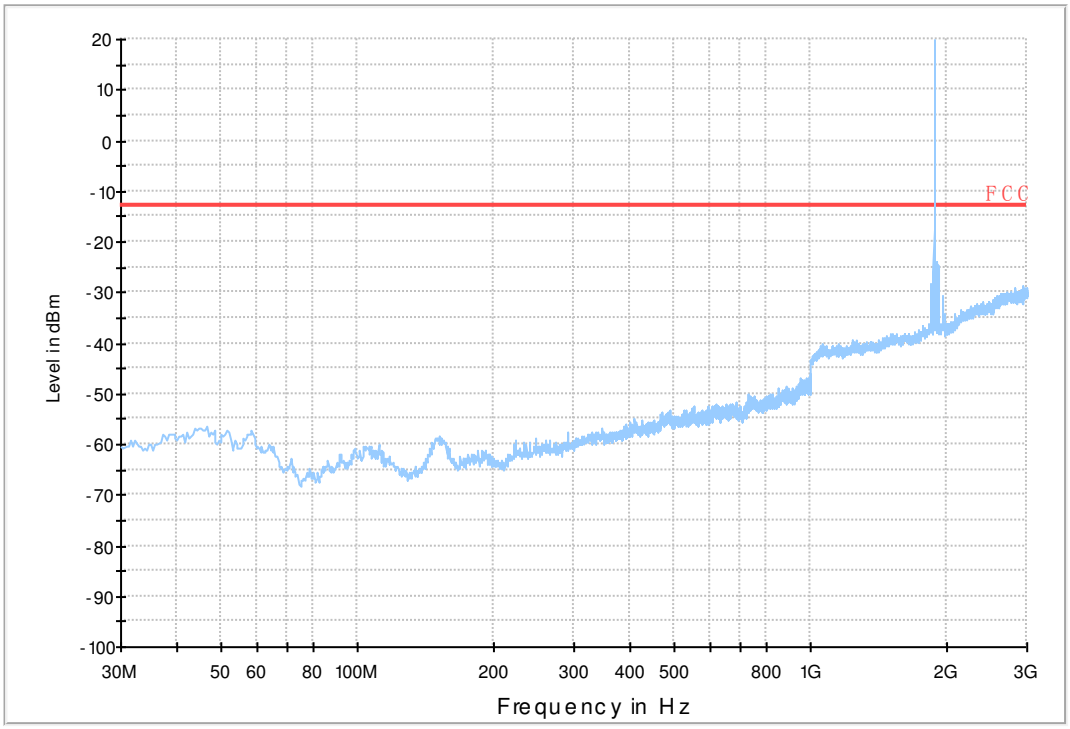

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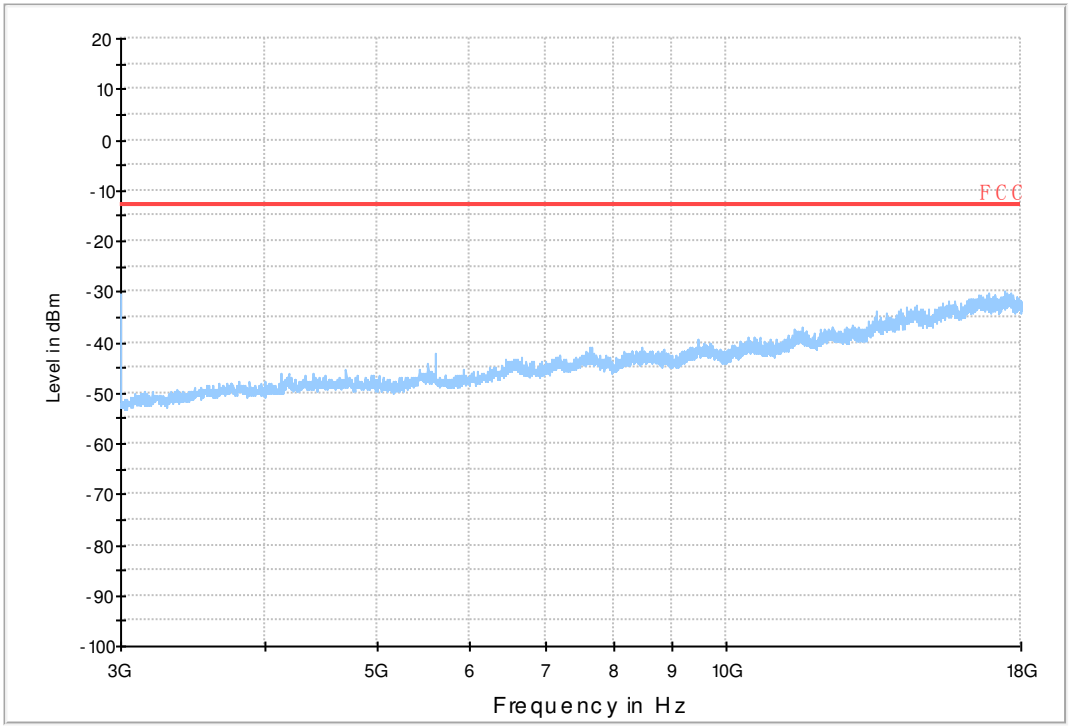

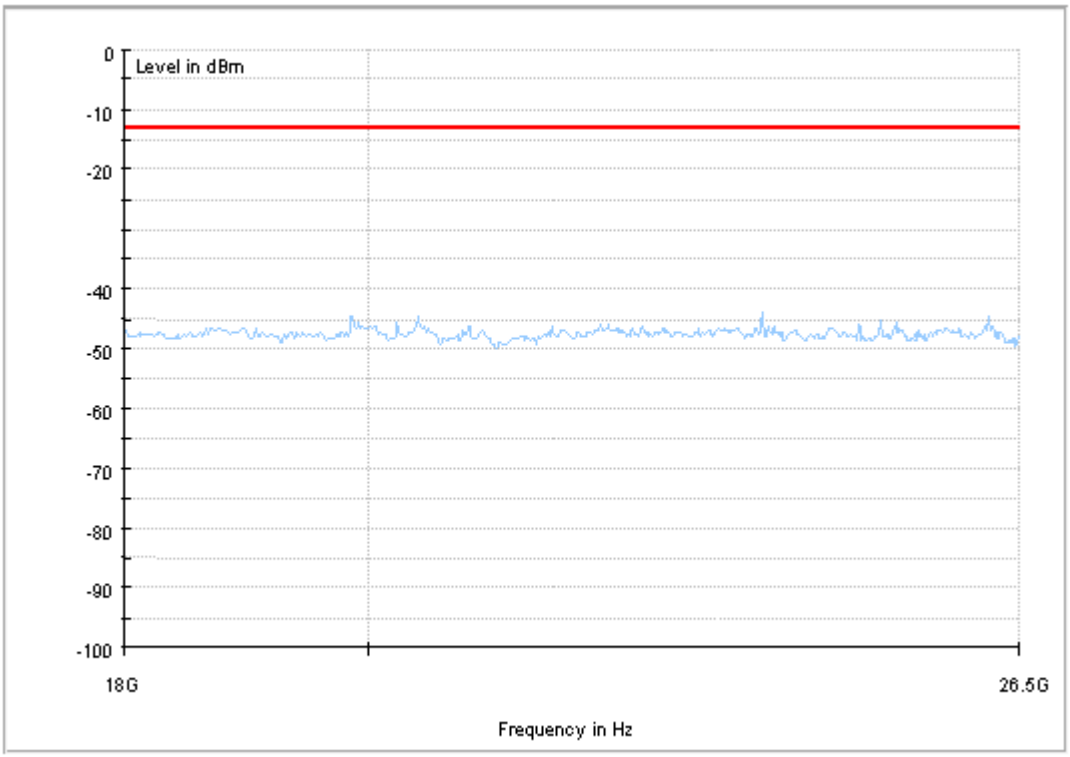

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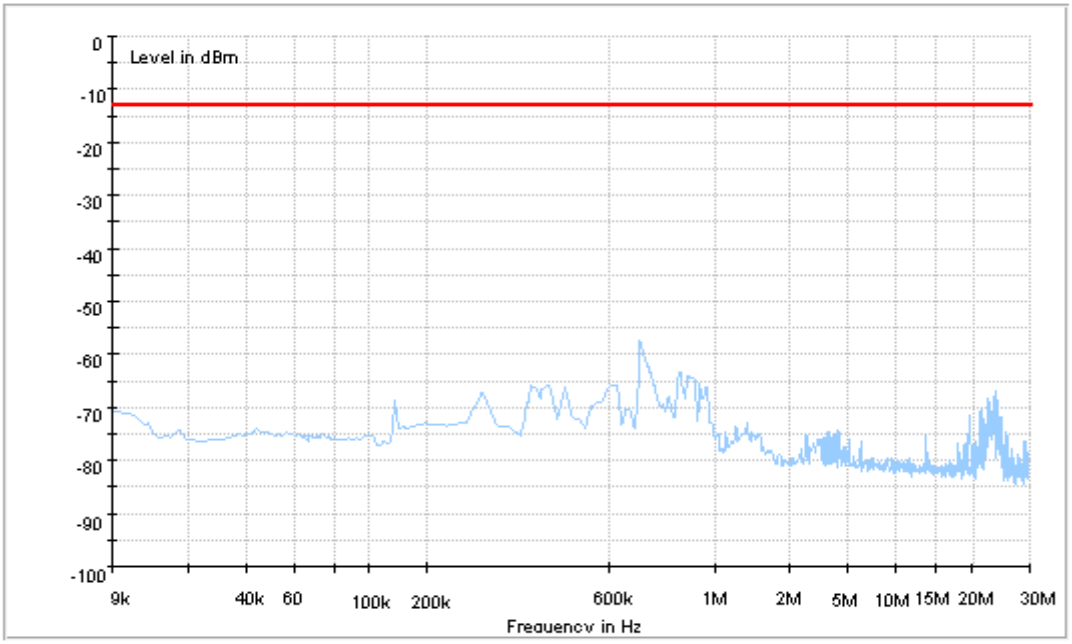
7.1.2 Test Band = BAND4

7.1.2.1 Test Bandwidth = 1.4



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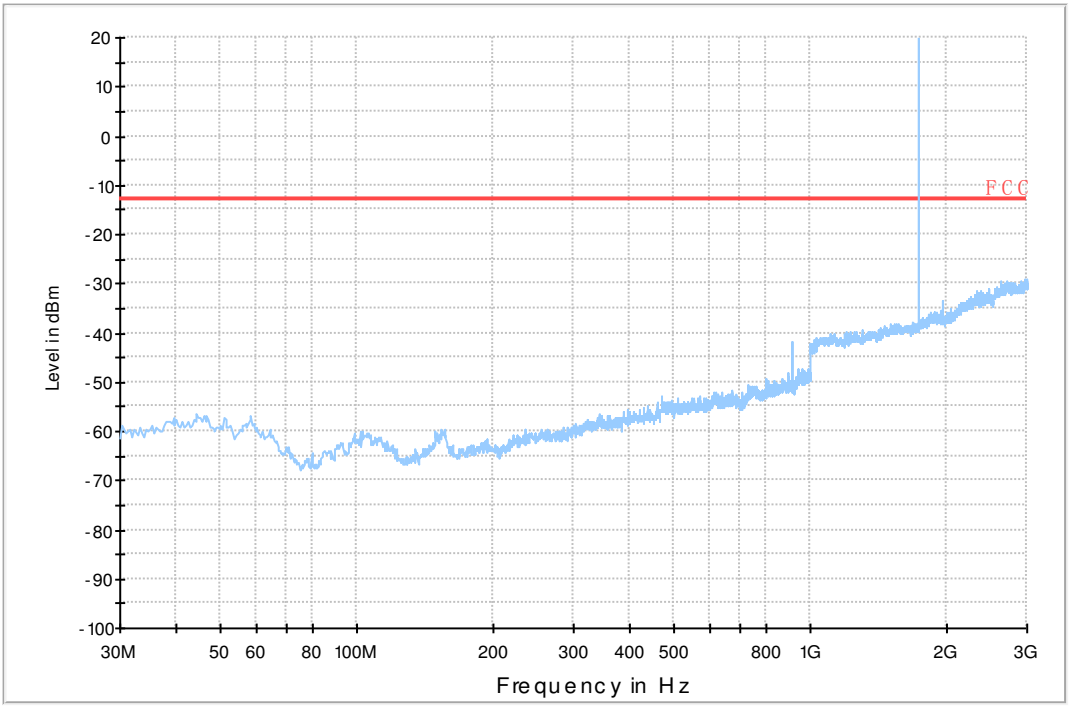

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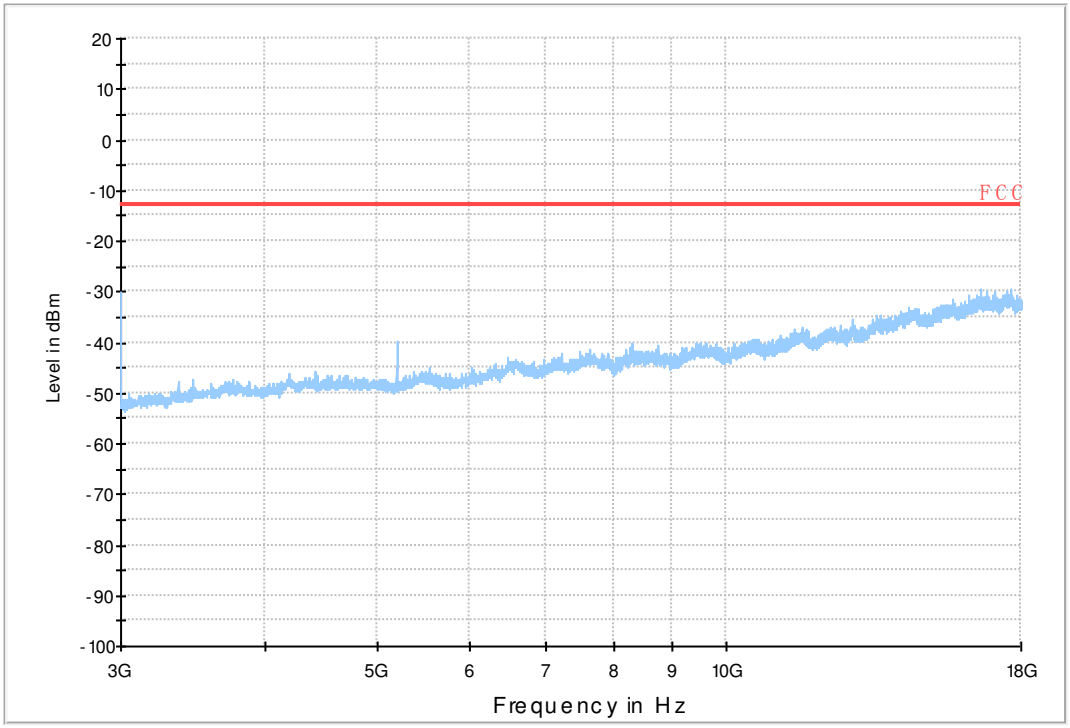

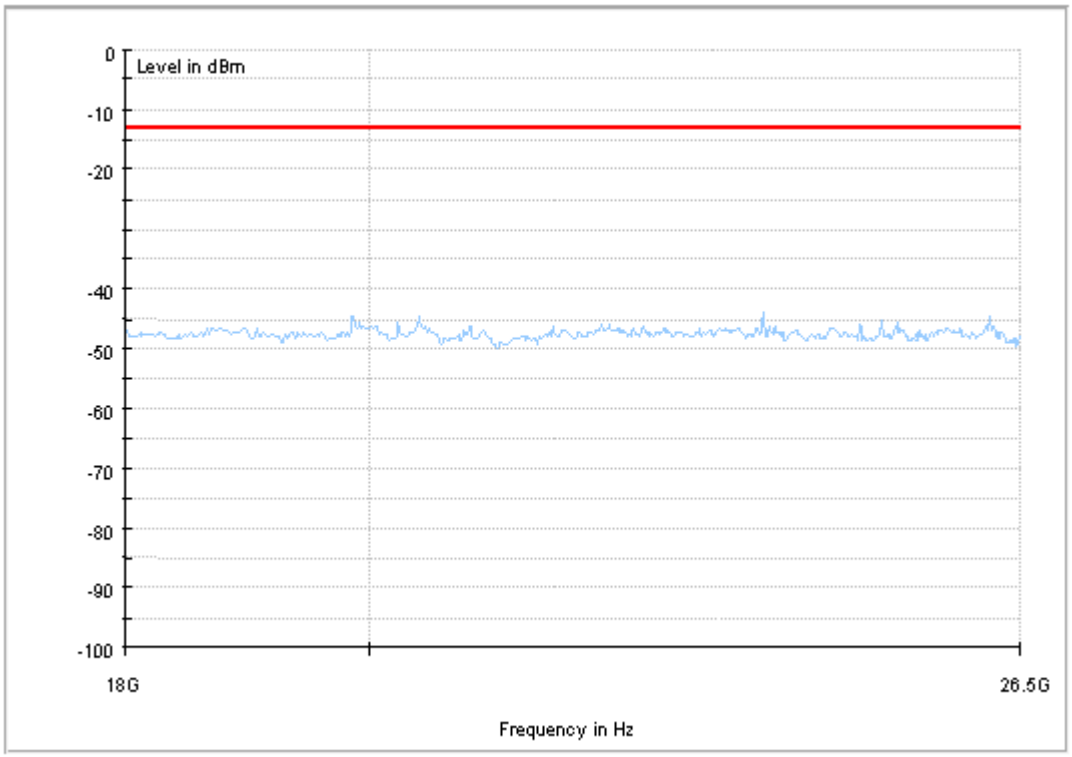

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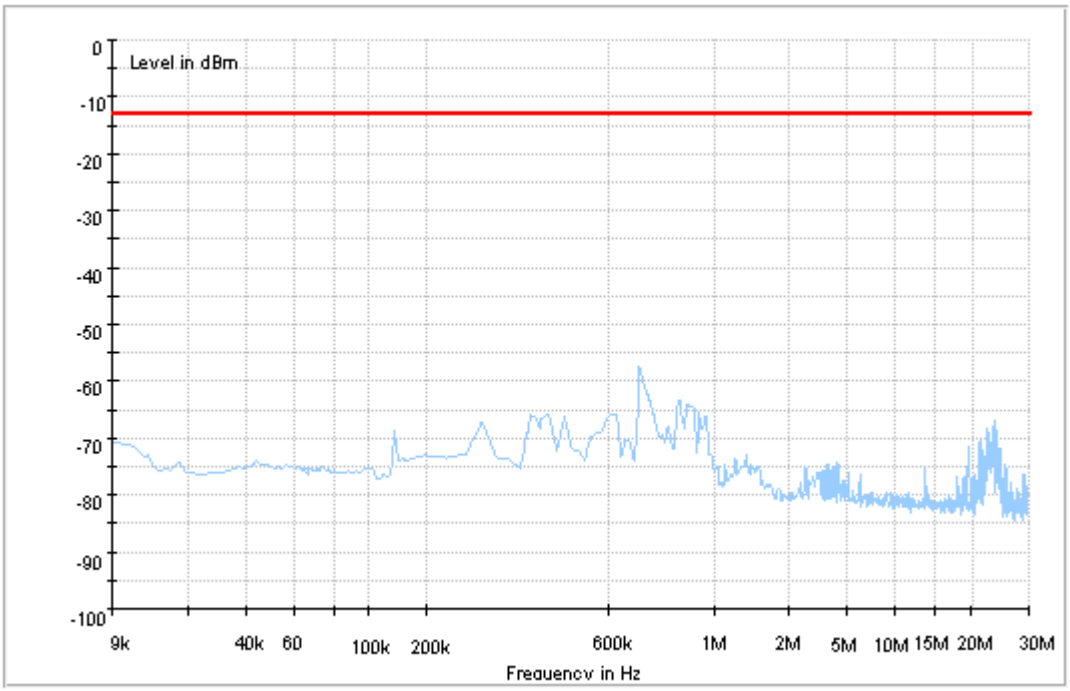
7.1.2.2 Test Bandwidth = 20



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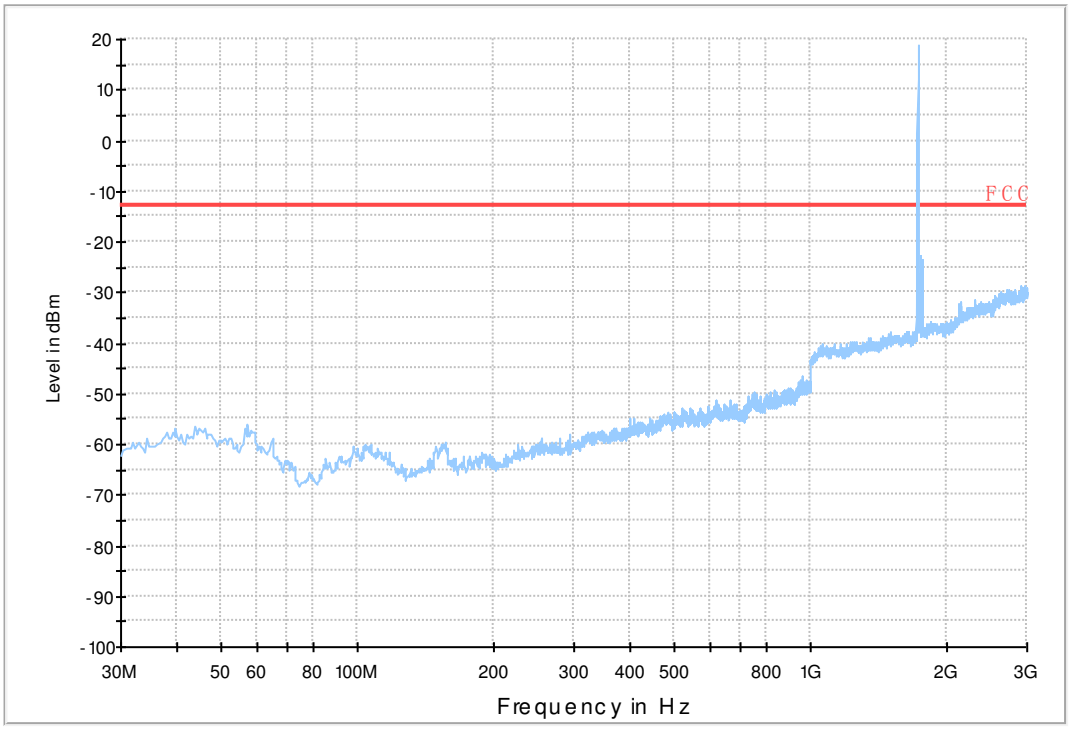

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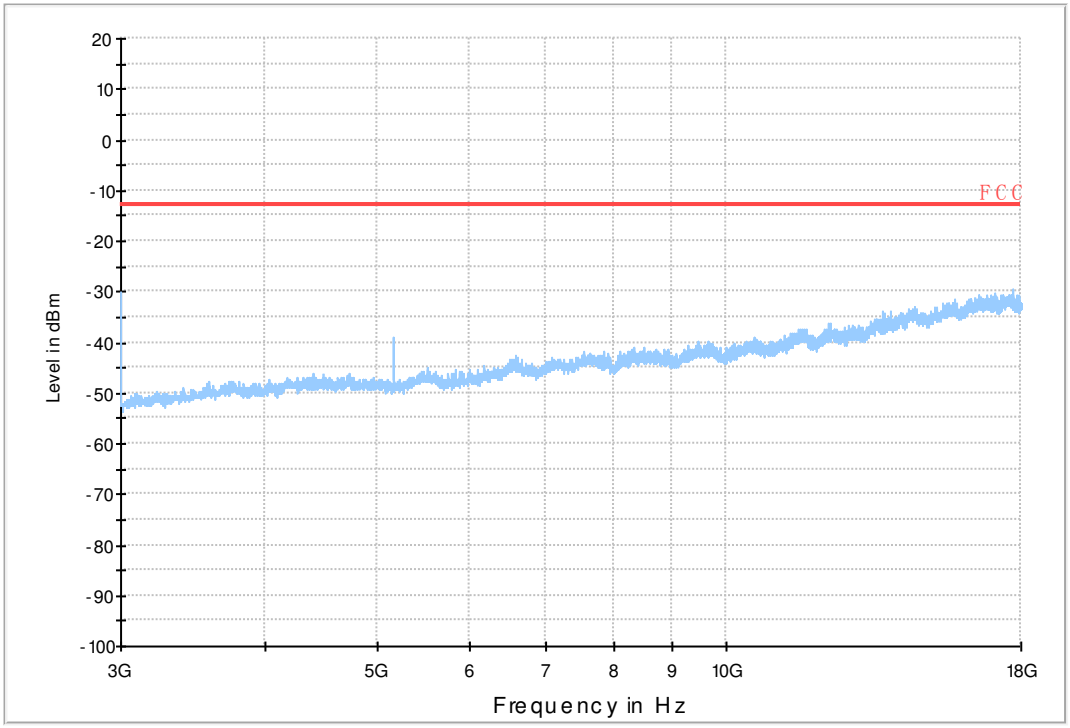

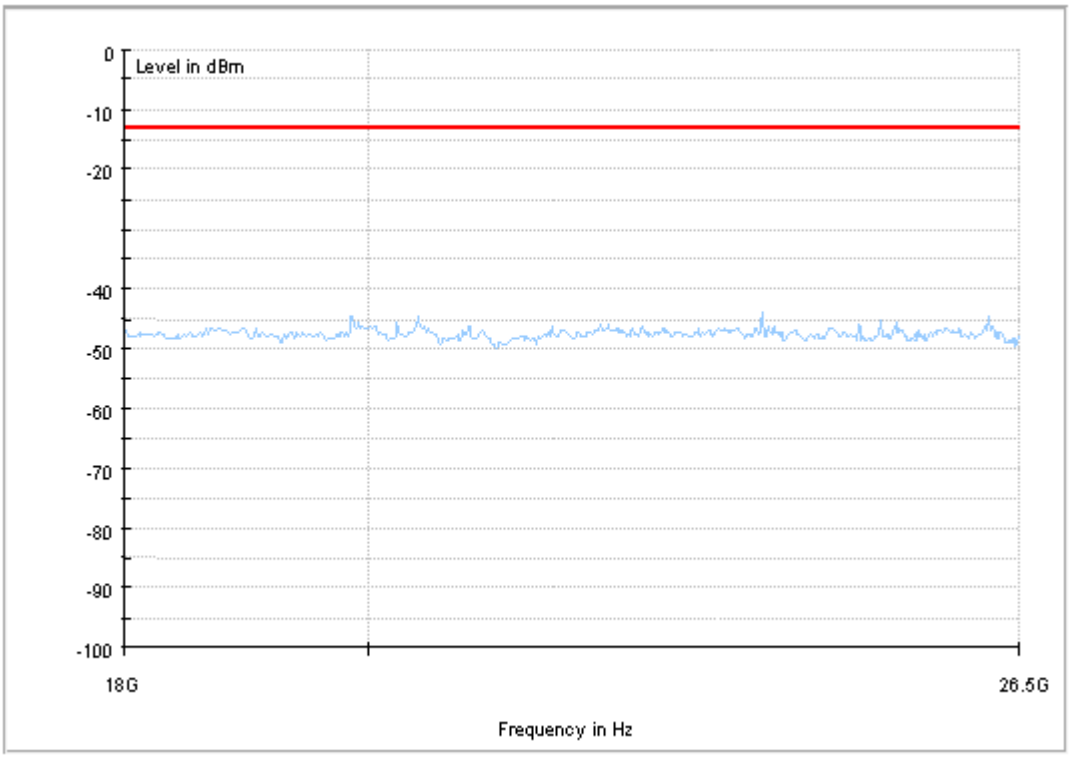

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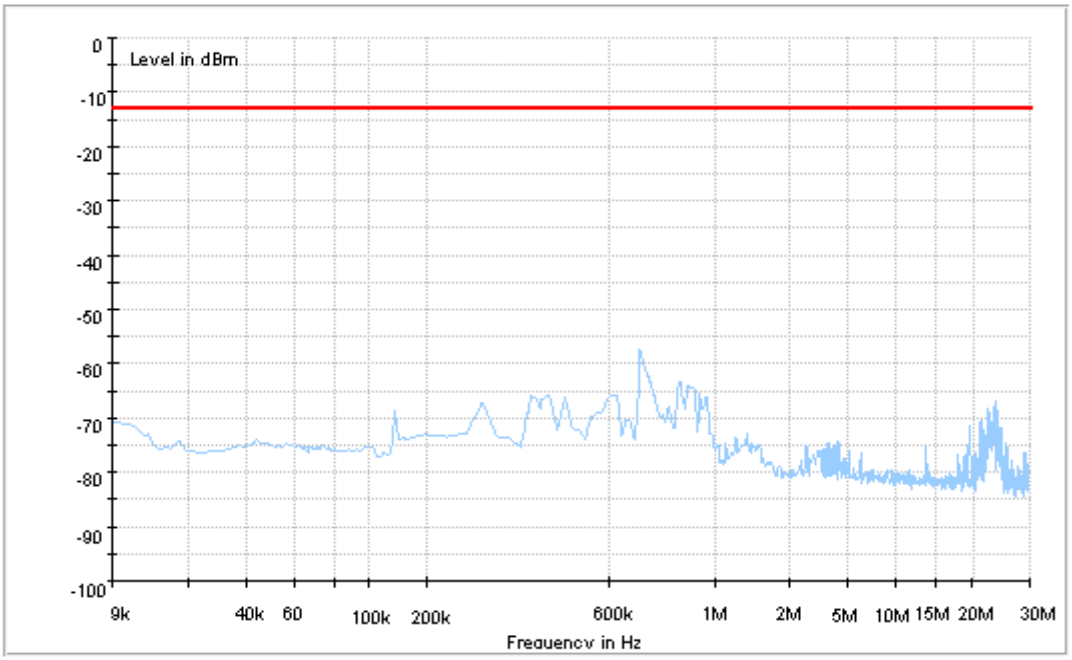
7.1.3 Test Band = BAND5

7.1.3.1 Test Bandwidth = 1.4



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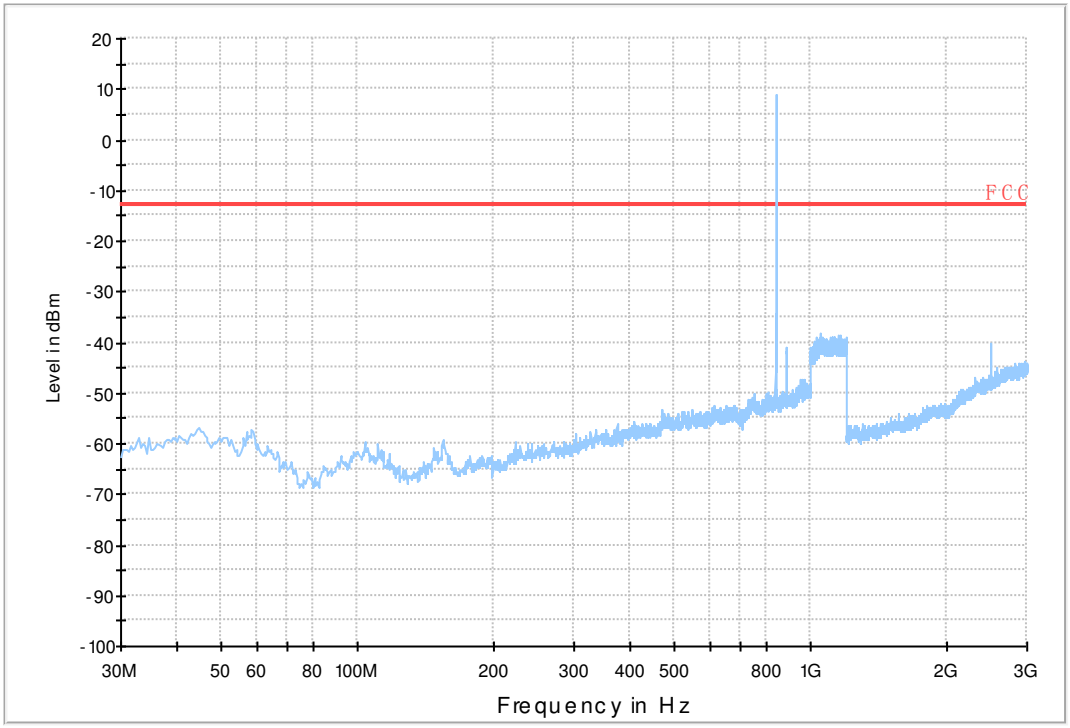

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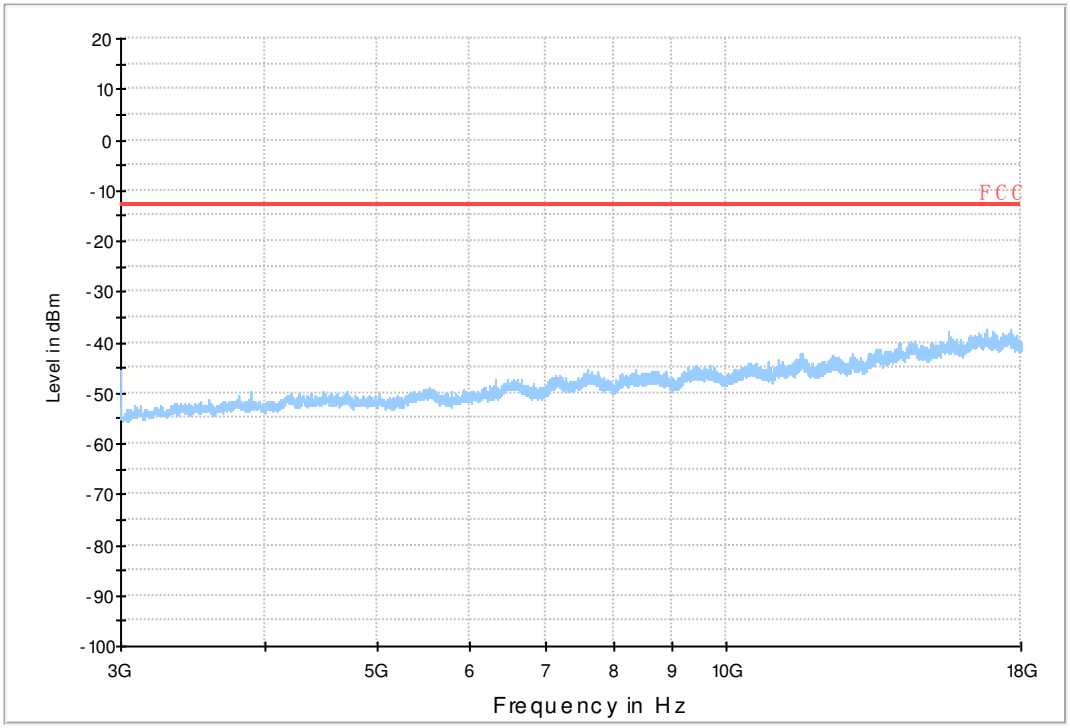

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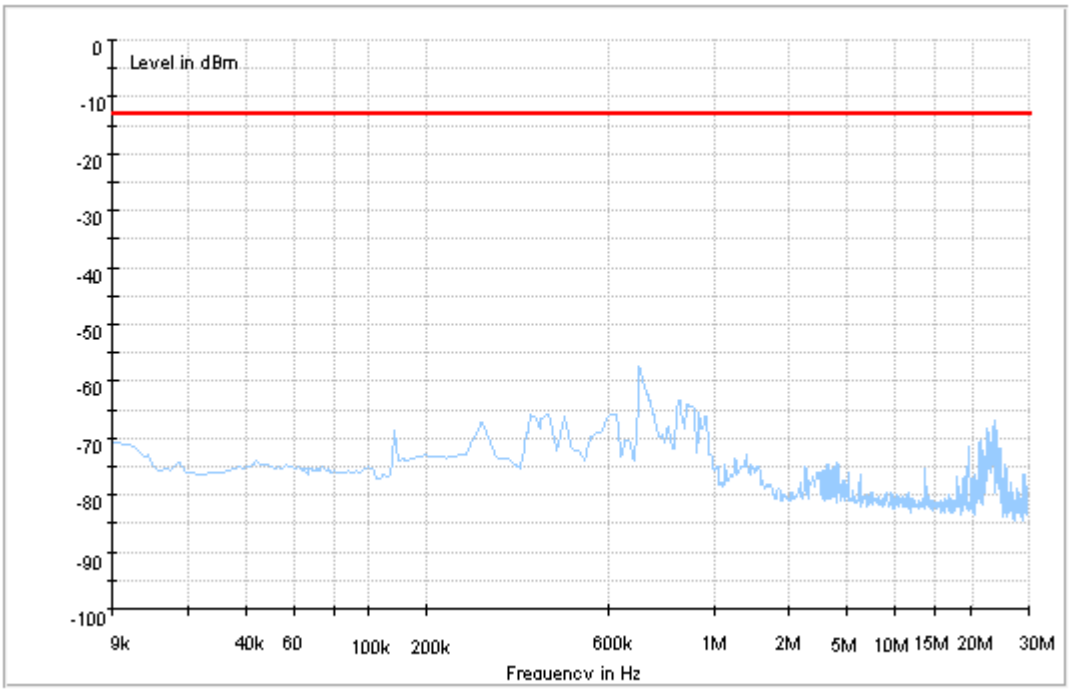
7.1.3.2 Test Bandwidth = 10



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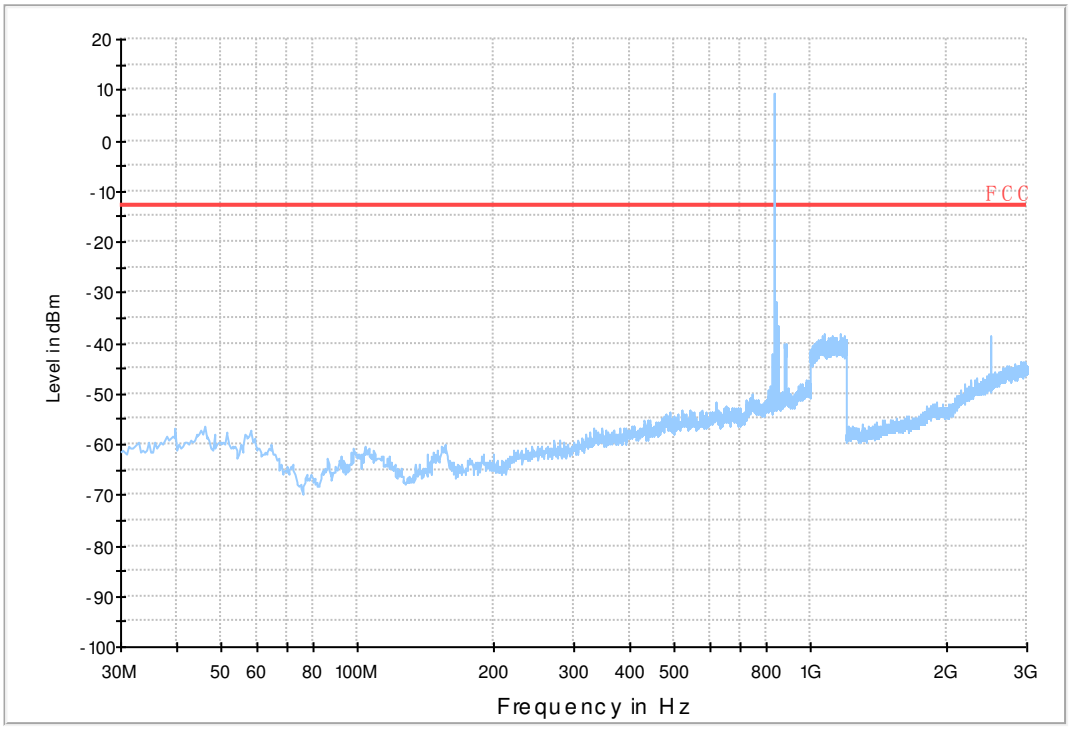

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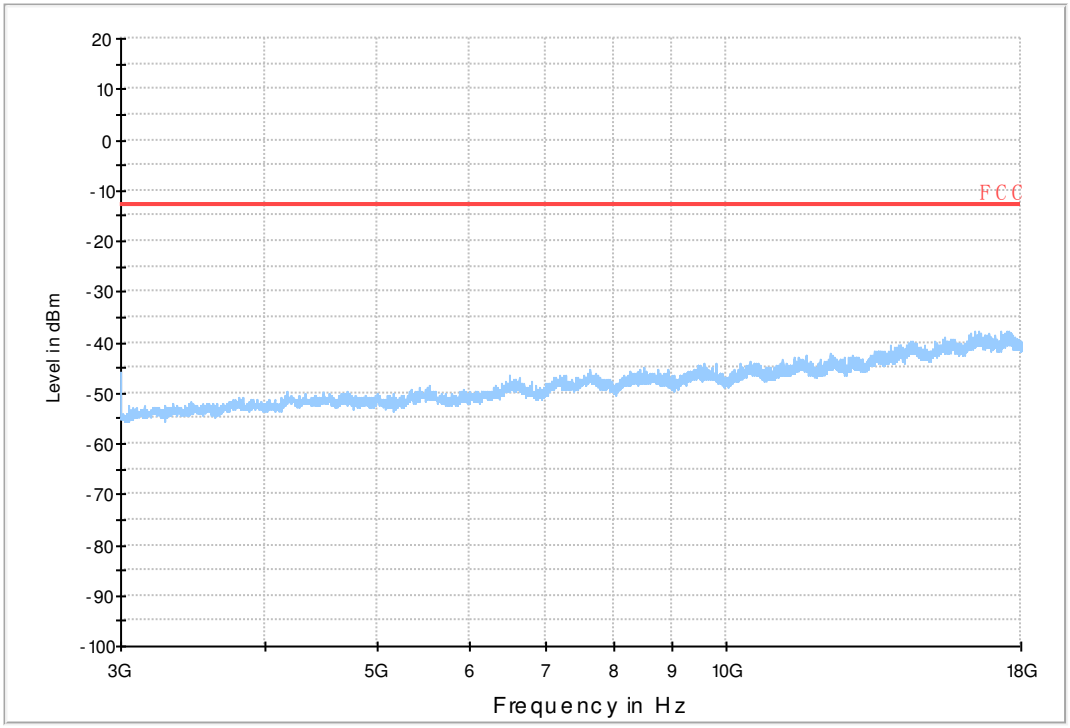

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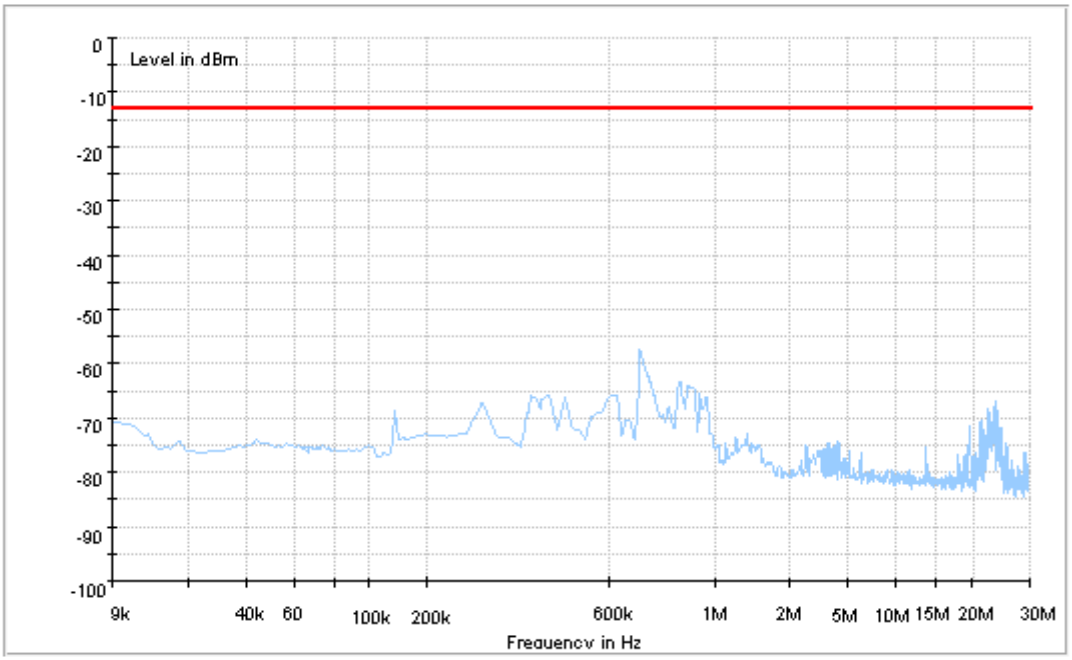
7.1.4 Test Band = BAND7

7.1.4.1 Test Bandwidth = 5



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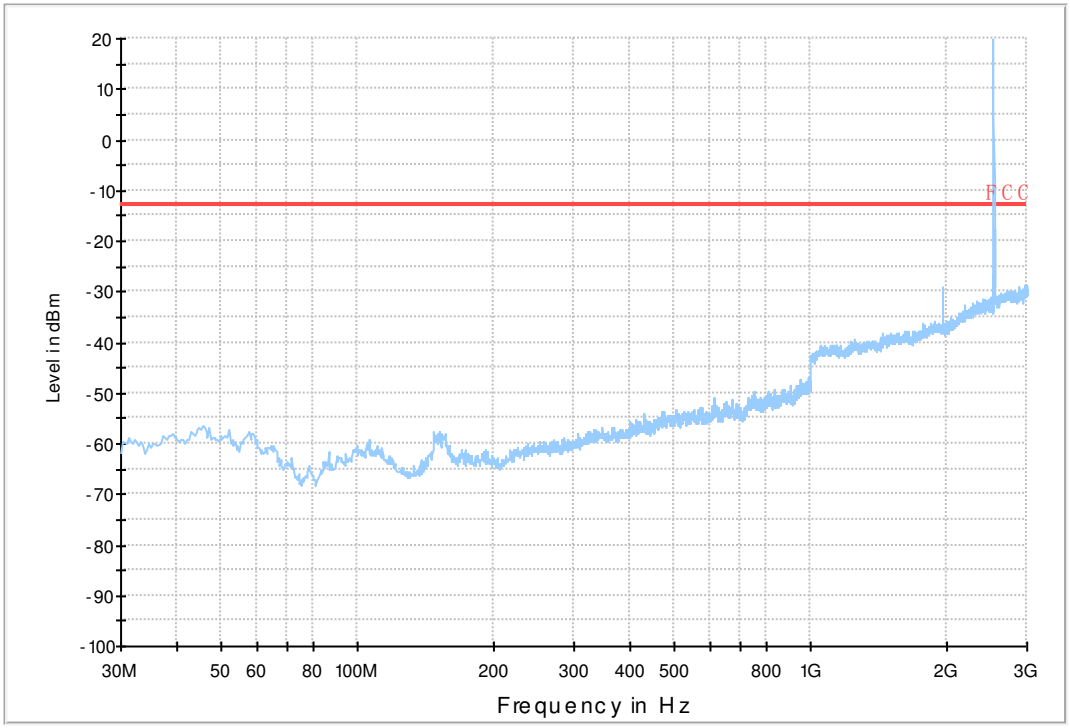

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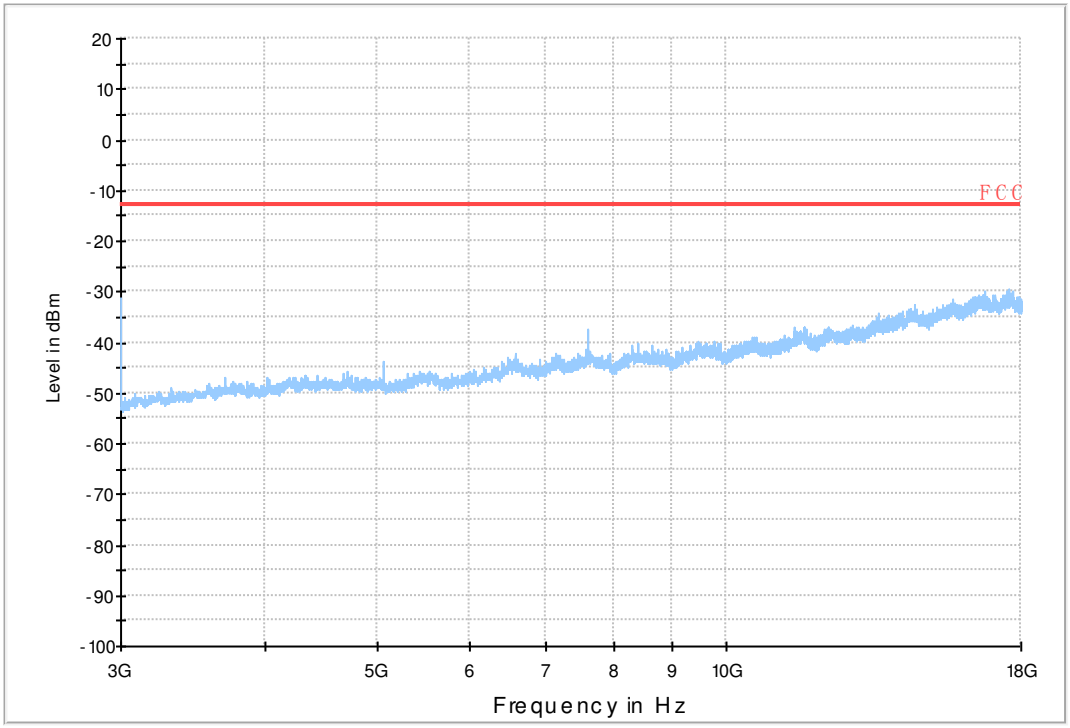

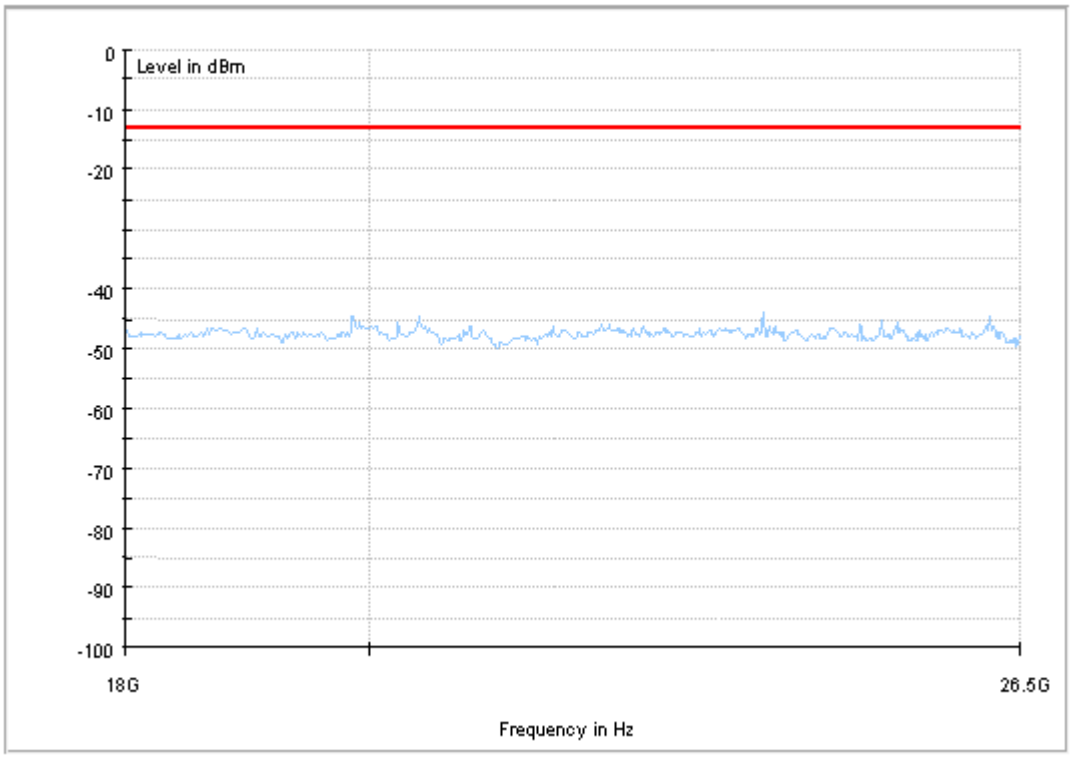

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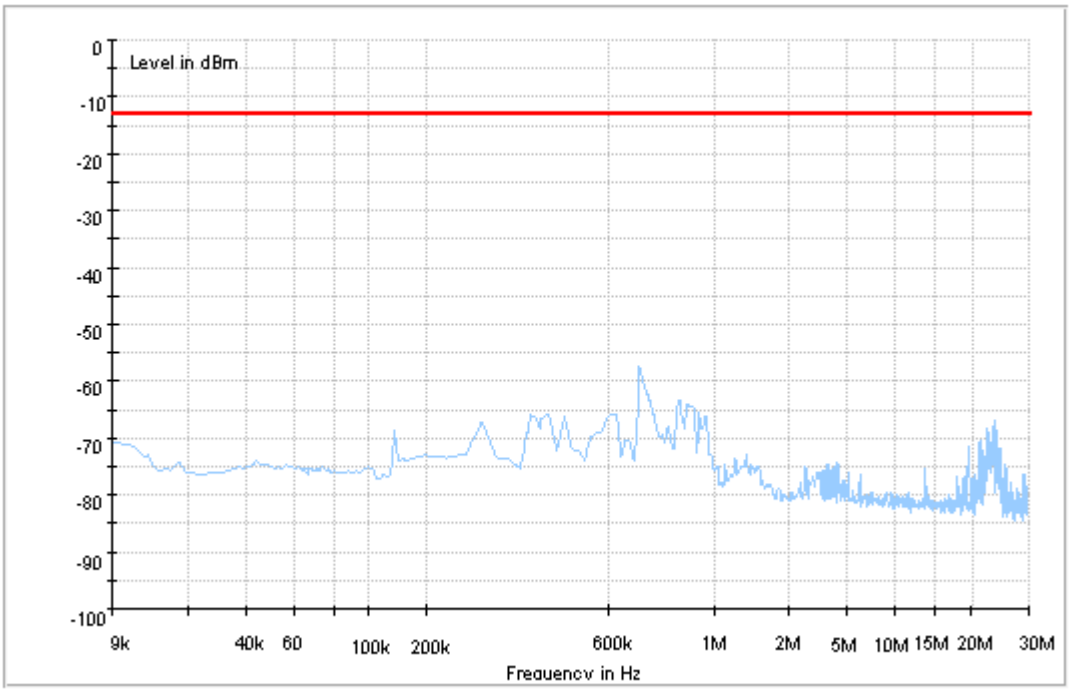
7.1.4.2 Test Bandwidth = 20



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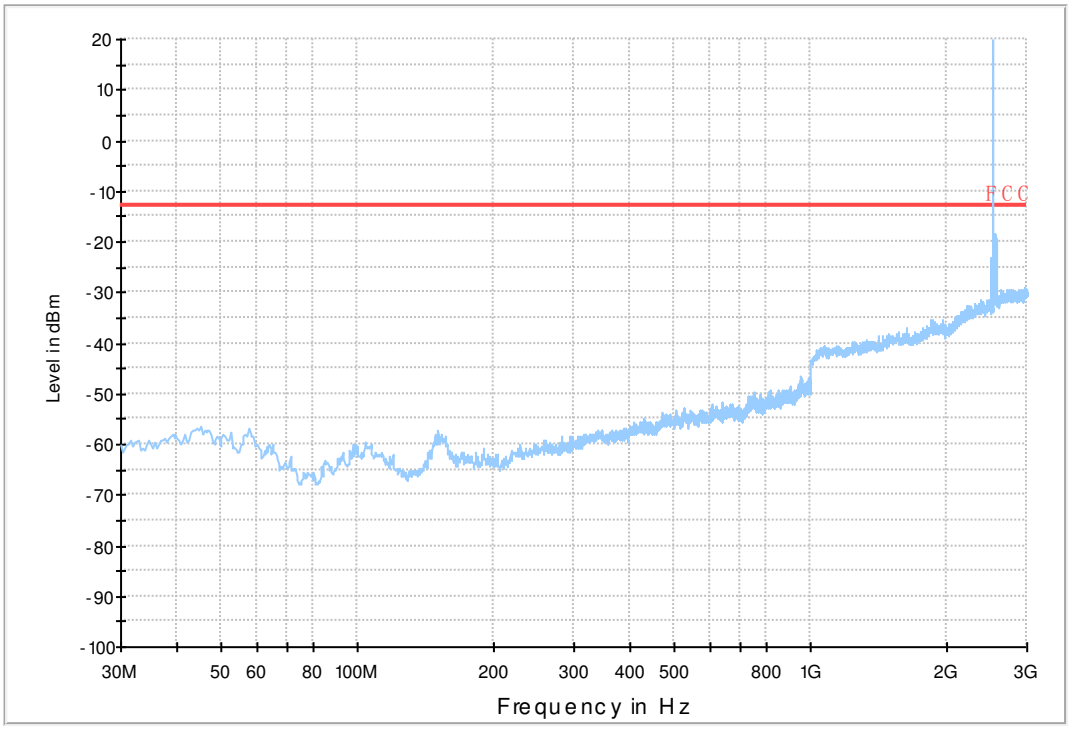

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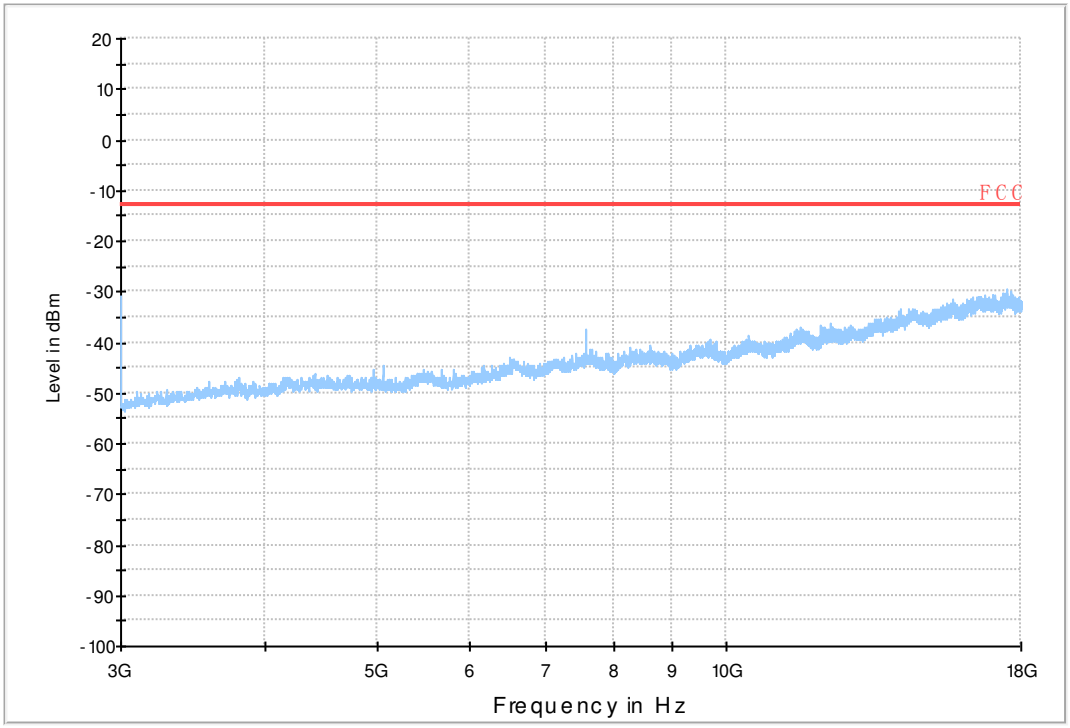

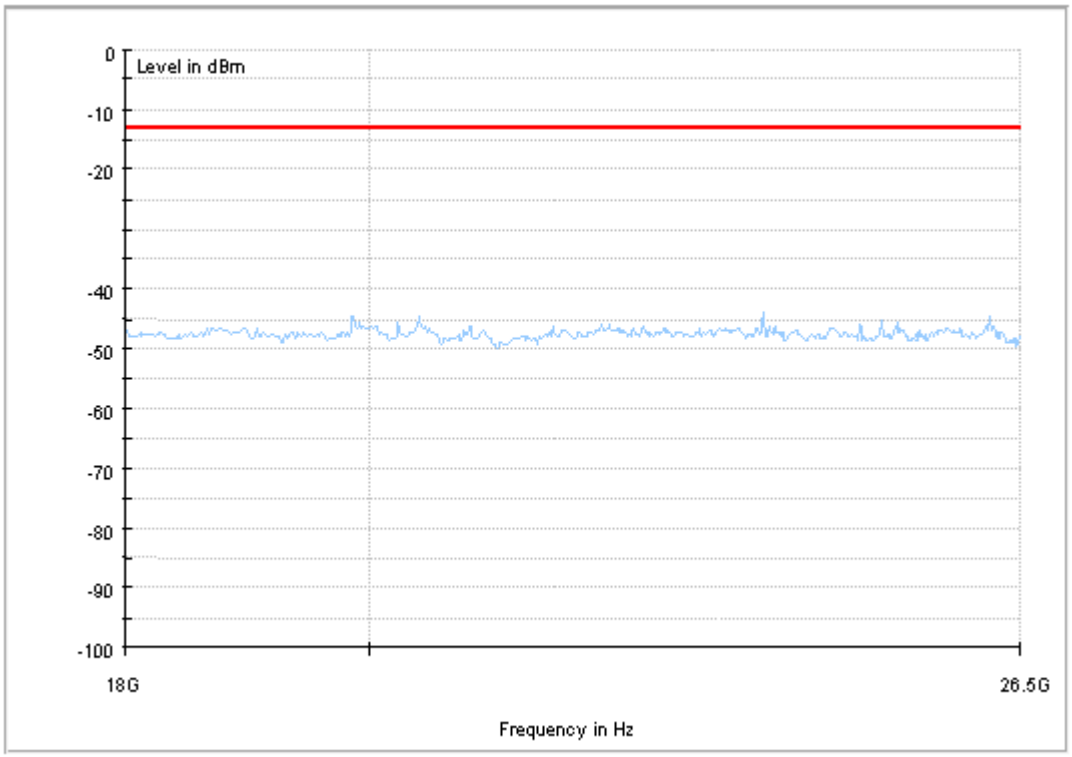

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8Appendix_H: Frequency Stability

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
BAND2	LTE/TM1	1.4	LCH	TN	VL	-4.93	-0.00105	PASS
					VN	-1.14	-0.00077	PASS
					VH	-0.62	0.00039	PASS
			MCH	TN	VL	1.55	0.00021	PASS
					VN	1.21	-0.0022	PASS
					VH	-3.31	0.00278	PASS
			HCH	TN	VL	6.15	0.00278	PASS
					VN	6.15	-0.00197	PASS
					VH	-2.92	-0.00087	PASS
		3	LCH	TN	VL	-0.81	-0.00093	PASS
					VN	-0.92	-0.00086	PASS
					VH	-0.79	-0.00096	PASS
			MCH	TN	VL	-0.98	-0.0003	PASS
					VN	0.25	-0.00066	PASS
					VH	-0.43	0.00103	PASS
			HCH	TN	VL	2.8	-0.00061	PASS
					VN	-0.33	-0.00087	PASS
					VH	-0.82	-0.00161	PASS
		5	LCH	TN	VL	-2.18	-0.00116	PASS
					VN	-1.35	-0.00137	PASS
					VH	-1.74	-0.0007	PASS
			MCH	TN	VL	-0.49	0.0002	PASS
					VN	1.2	-0.0002	PASS
					VH	0.45	0.00203	PASS
			HCH	TN	VL	4.7	2E-05	PASS
					VN	0.88	-0.00007	PASS
					VH	0.7	-0.00196	PASS
		10	LCH	TN	VL	-2.82	-0.00236	PASS
					VN	-3.57	-0.00097	PASS
					VH	-0.99	-0.00052	PASS
			MCH	TN	VL	-0.16	-0.00118	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
					VN	-1.39	-0.00138	PASS
					VH	-1.78	-0.00067	PASS
			HCH	TN	VL	-0.45	-0.00003	PASS
					VN	0.77	0.00102	PASS
					VH	2.78	0.00113	PASS
		15	LCH	TN	VL	2.9	-0.00064	PASS
					VN	-0.38	-0.00072	PASS
					VH	-0.53	0.00244	PASS
			MCH	TN	VL	5.4	-0.00098	PASS
					VN	-1.02	-0.00255	PASS
					VH	-3.98	1E-04	PASS
			HCH	TN	VL	1.02	-0.00029	PASS
					VN	0.28	-0.00072	PASS
					VH	-0.53	-0.00166	PASS
		20	LCH	TN	VL	-2.27	-0.00192	PASS
					VN	-2.77	-0.00105	PASS
					VH	-1.14	-0.00183	PASS
			MCH	TN	VL	-2.62	-0.00126	PASS
					VN	-1.54	-0.00064	PASS
					VH	-0.38	0.00082	PASS
			HCH	TN	VL	2.38	0.00013	PASS
					VN	1.08	-0.00022	PASS
					VH	0.42	-0.00021	PASS
	LTE/TM2	1.4	LCH	TN	VL	0.42	-0.00163	PASS
					VN	-2.21	-0.00389	PASS
					VH	-6.4	-0.00002	PASS
			MCH	TN	VL	0.78	-0.00029	PASS
					VN	0.28	-0.00059	PASS
					VH	-0.29	0.00136	PASS
			HCH	TN	VL	3.44	-0.00018	PASS
					VN	0.5	-0.00133	PASS
					VH	-1.71	0.00061	PASS
		3	LCH	TN	VL	1.93	0.00005	PASS
					VN	0.9	-0.00127	PASS
					VH	-1.54	0.00334	PASS
			MCH	TN	VL	7.1	0.00019	PASS
					VN	1.17	0.0004	PASS
					VH	1.58	0.00328	PASS
			HCH	TN	VL	7.1	0.00133	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
					VN	3.38	-0.00193	PASS
					VH	-2.85	0.00101	PASS
		5	LCH	TN	VL	2.68	-0.00075	PASS
					VN	-0.58	-0.00023	PASS
					VH	0.38	0	PASS
			MCH	TN	VL	0.82	-0.00096	PASS
					VN	-0.98	-0.00135	PASS
					VH	-1.71	0.00303	PASS
			HCH	TN	VL	6.62	0.00014	PASS
					VN	1.11	-0.00027	PASS
					VH	0.32	-0.00136	PASS
		10	LCH	TN	VL	-1.71	-0.00131	PASS
					VN	-1.62	-0.00233	PASS
					VH	-3.52	-0.00101	PASS
			MCH	TN	VL	-1.08	-0.0004	PASS
					VN	0.07	-0.00088	PASS
					VH	-0.84	0.00114	PASS
			HCH	TN	VL	3.01	0.00008	PASS
					VN	0.98	-0.00017	PASS
					VH	0.51	0.00077	PASS
		15	LCH	TN	VL	2.23	-0.00034	PASS
					VN	0.18	-0.00095	PASS
					VH	-0.96	-0.0002	PASS
			MCH	TN	VL	0.44	-0.00206	PASS
					VN	-3.05	-0.0011	PASS
					VH	-1.24	0.00023	PASS
			HCH	TN	VL	1.27	-0.00098	PASS
					VN	-1.04	-0.00061	PASS
					VH	-0.32	-0.00106	PASS
		20	LCH	TN	VL	-1.16	-0.00061	PASS
					VN	-0.32	-0.00386	PASS
					VH	-6.37	-0.00047	PASS
			MCH	TN	VL	-0.06	-0.00138	PASS
					VN	-1.78	-0.00094	PASS
					VH	-0.94	0.00025	PASS
			HCH	TN	VL	1.31	-0.00059	PASS
					VN	-0.29	-0.00055	PASS
					VH	-0.22	-0.0031	PASS

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