



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dBm]	ERP/EIRP[dBm]	Limit [dBm]	Verdict
BC0	CDMA/1X/TM1	LCH	24.20	21.05	38.5	PASS
		MCH	24.14	20.99	38.5	PASS
		HCH	24.19	21.04	38.5	PASS
	CDMA/1X/TM3	LCH	24.18	21.03	38.5	PASS
		MCH	24.15	21	38.5	PASS
		HCH	24.16	21.01	38.5	PASS
BC0	CDMA/EV-DO/Subtype0	LCH	24.05	20.9	38.5	PASS
		MCH	24.01	20.86	38.5	PASS
		HCH	24.09	20.94	38.5	PASS
	CDMA/EV-DO/Subtype2	LCH	23.64	20.49	38.5	PASS
		MCH	23.65	20.5	38.5	PASS
		HCH	23.63	20.48	38.5	PASS
BC1	CDMA/1X/TM1	LCH	22.07	22.65	33	PASS

Test Band	Test Mode	Test Channel	Measured[dBm]	ERP/EIRP[dBm]	Limit [dBm]	Verdict
		MCH	22.23	22.81	33	PASS
		HCH	22.22	22.8	33	PASS
	CDMA/1X/TM3	LCH	22.07	22.65	33	PASS
		MCH	21.98	22.56	33	PASS
		HCH	22.18	22.76	33	PASS
BC1	CDMA/EV-DO/Subtype0	LCH	21.87	22.45	33	PASS
		MCH	21.69	22.27	33	PASS
		HCH	21.75	22.33	33	PASS
	CDMA/EV-DO/Subtype2	LCH	21.52	22.1	33	PASS
		MCH	21.3	21.88	33	PASS
		HCH	21.34	21.92	33	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,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
BC1	CDMA/1X/TM1	LCH	3.87	13	PASS
		MCH	4.45	13	PASS
		HCH	4.1	13	PASS
	CDMA/1X/TM3	LCH	3.56	13	PASS
		MCH	3.97	13	PASS
		HCH	3.74	13	PASS
BC1	CDMA/EV-DO/Subtype0	LCH	3.85	13	PASS
		MCH	3.71	13	PASS
		HCH	3.82	13	PASS
	CDMA/EV-DO/Subtype2	LCH	4.25	13	PASS
		MCH	4.78	13	PASS
		HCH	4.67	13	PASS

3Appendix_C: Modulation Characteristics

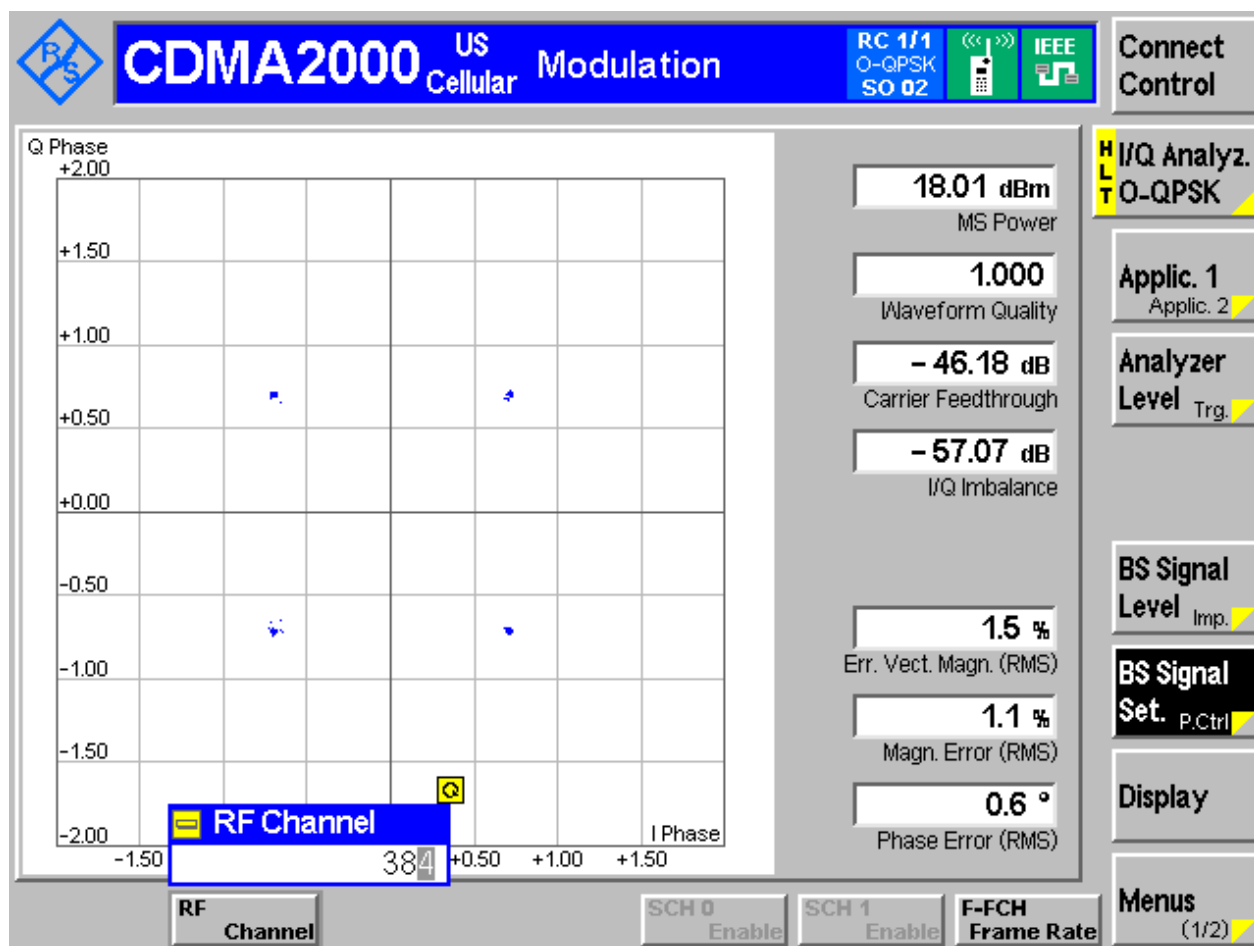
Part I - Test Plots

3.1 For CDMA

3.1.1 Test Band = BC0

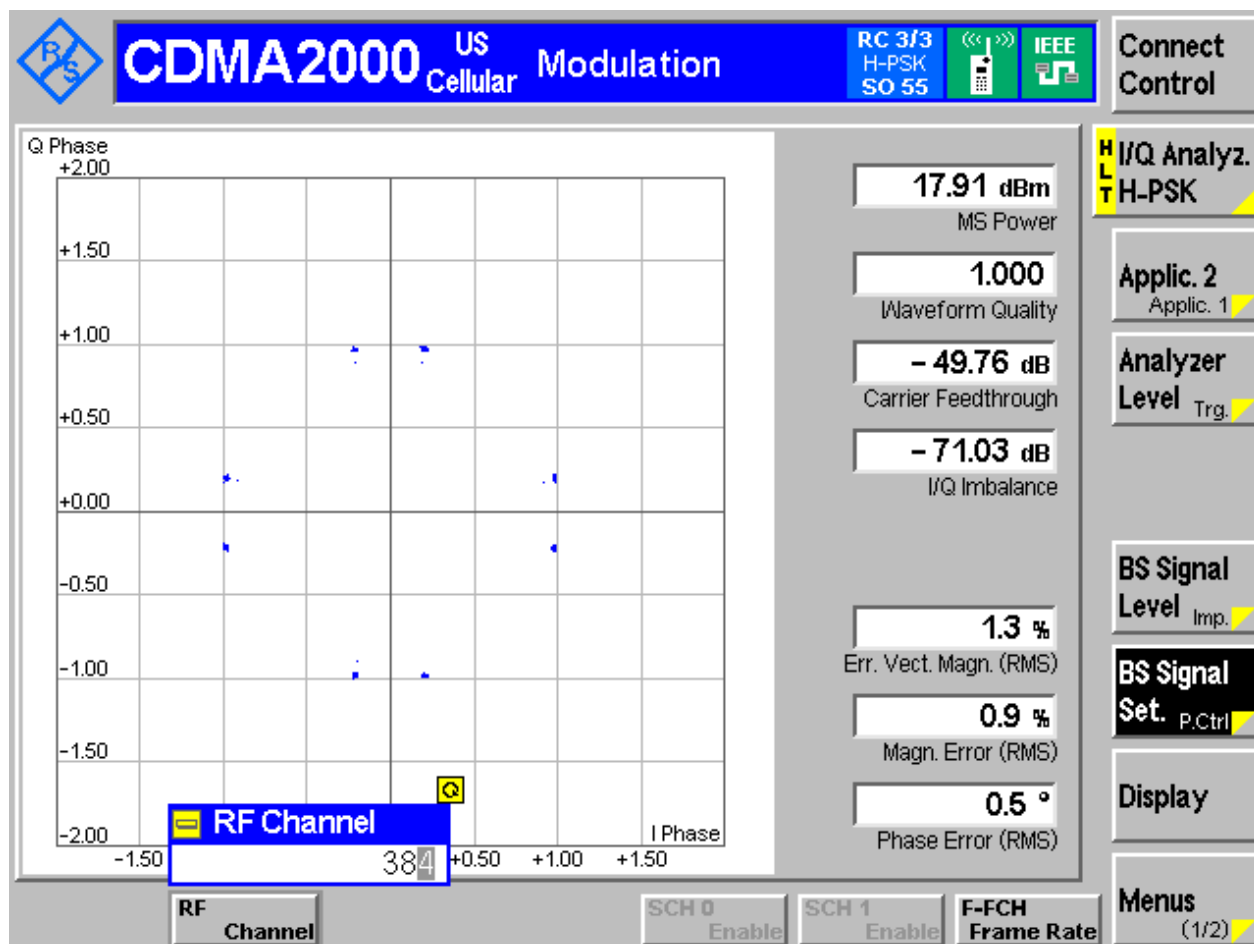
3.1.1.1 Test Mode = CDMA/1X/TM1

3.1.1.1.1 Test Channel = MCH



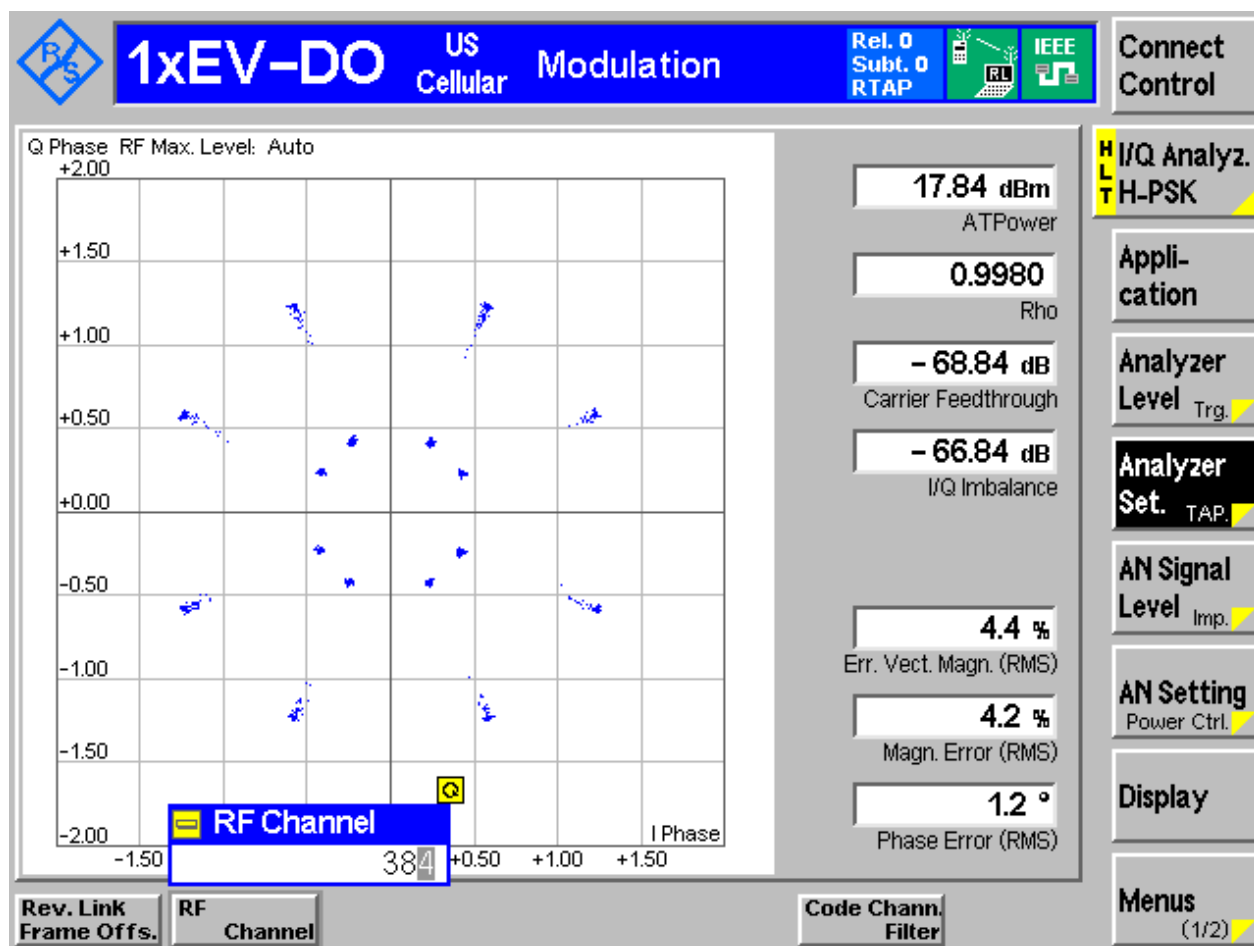
3.1.1.2 Test Mode = CDMA/1X/TM3

3.1.1.2.1 Test Channel = MCH



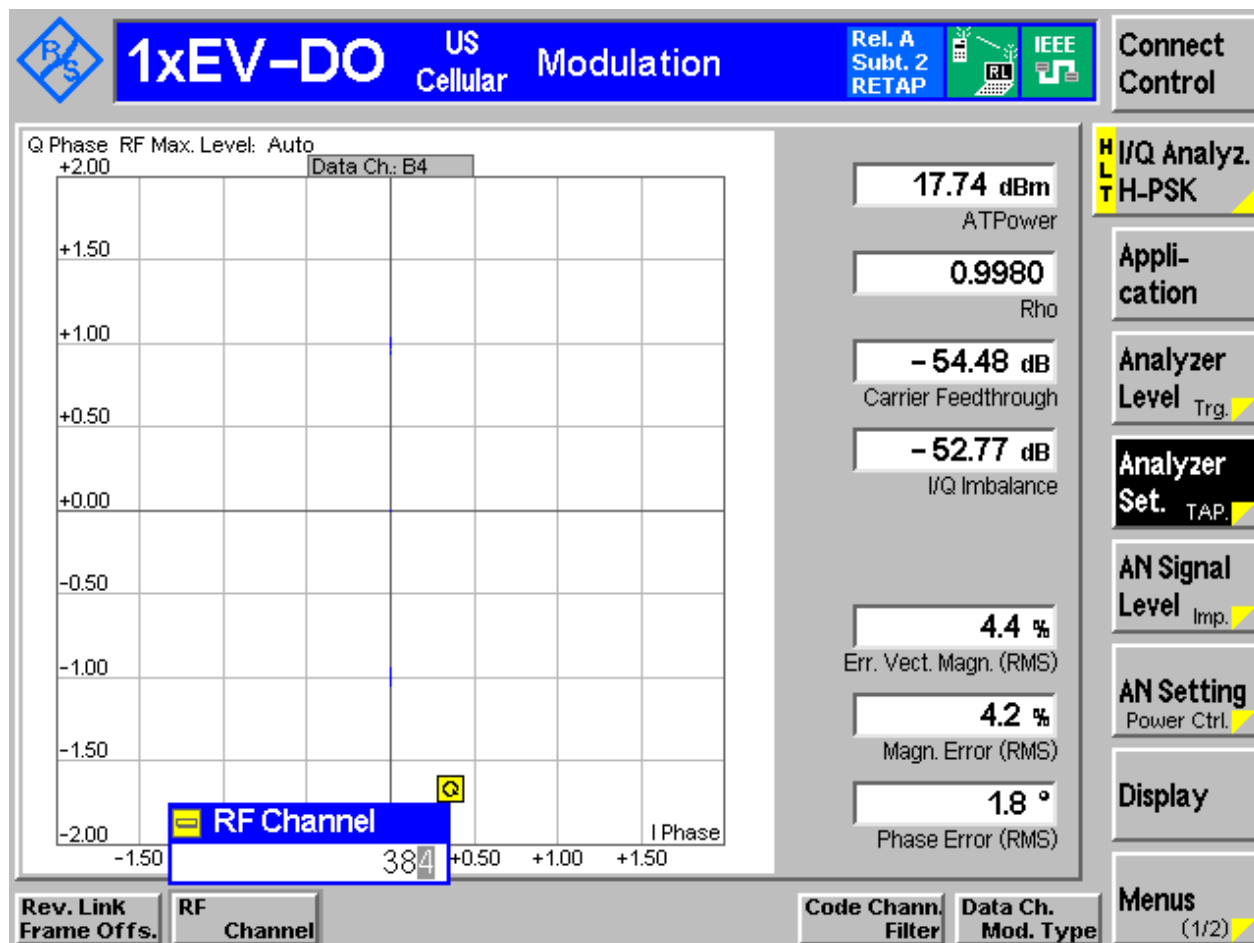
3.1.1.3 Test Mode = CDMA/EV-DO/Subtype0

3.1.1.3.1 Test Channel = MCH



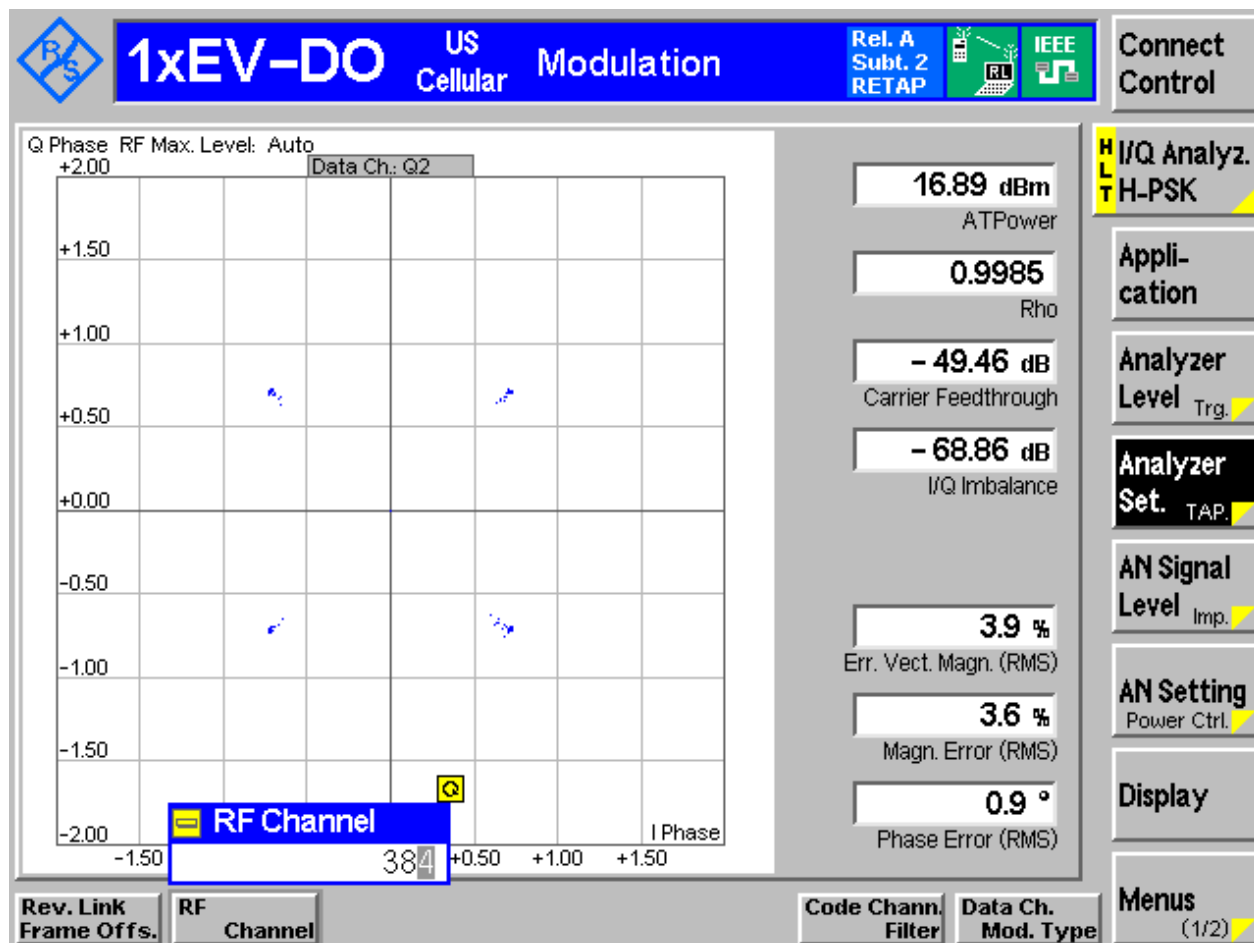
3.1.1.4 Test Mode = CDMA/EV-DO/Subtype2/256

3.1.1.4.1 Test Channel = MCH



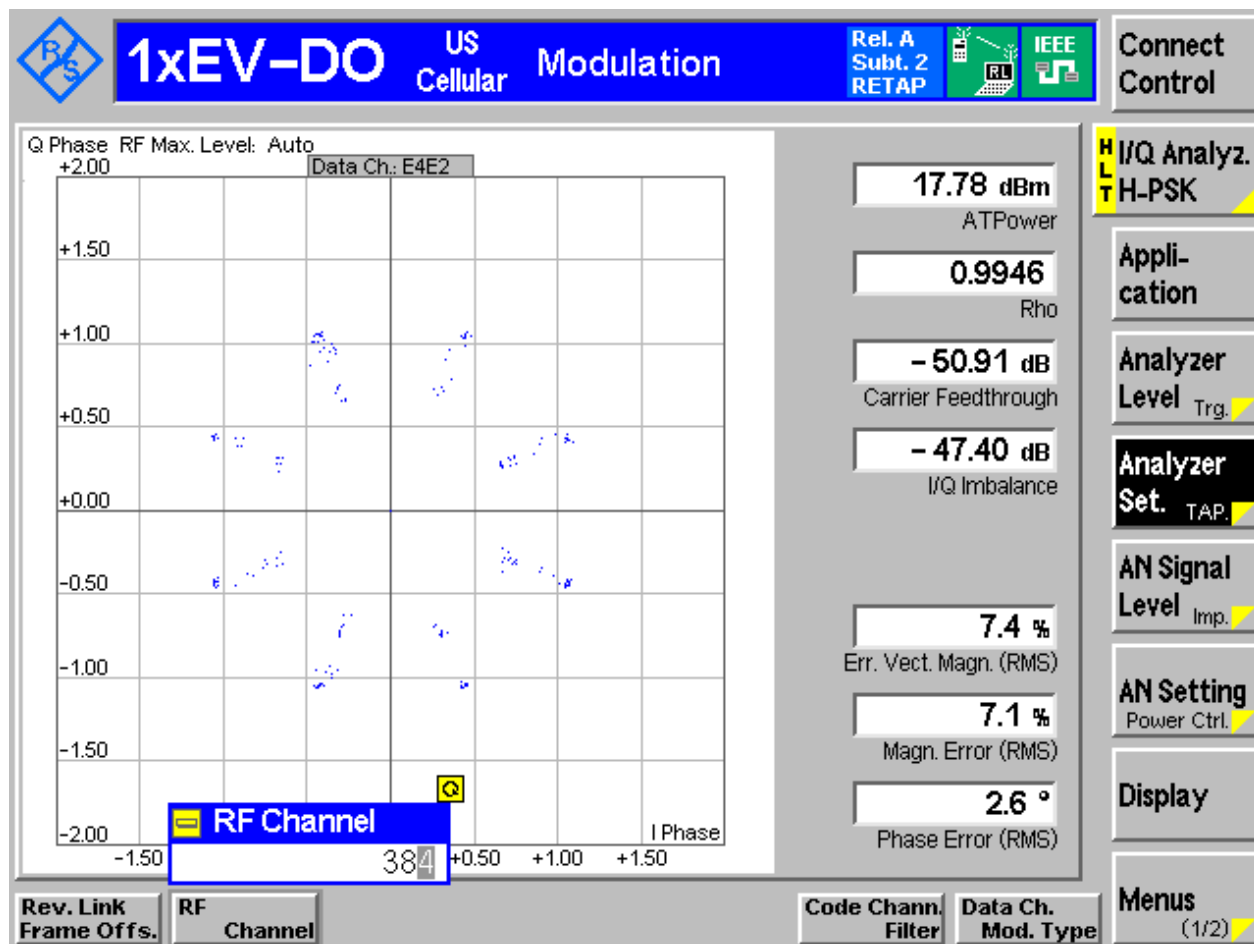
3.1.1.5 Test Mode = CDMA/EV-DO/Subtype2/4096

3.1.1.5.1 Test Channel = MCH



3.1.1.6 Test Mode = CDMA/EV-DO/Subtype2/12288

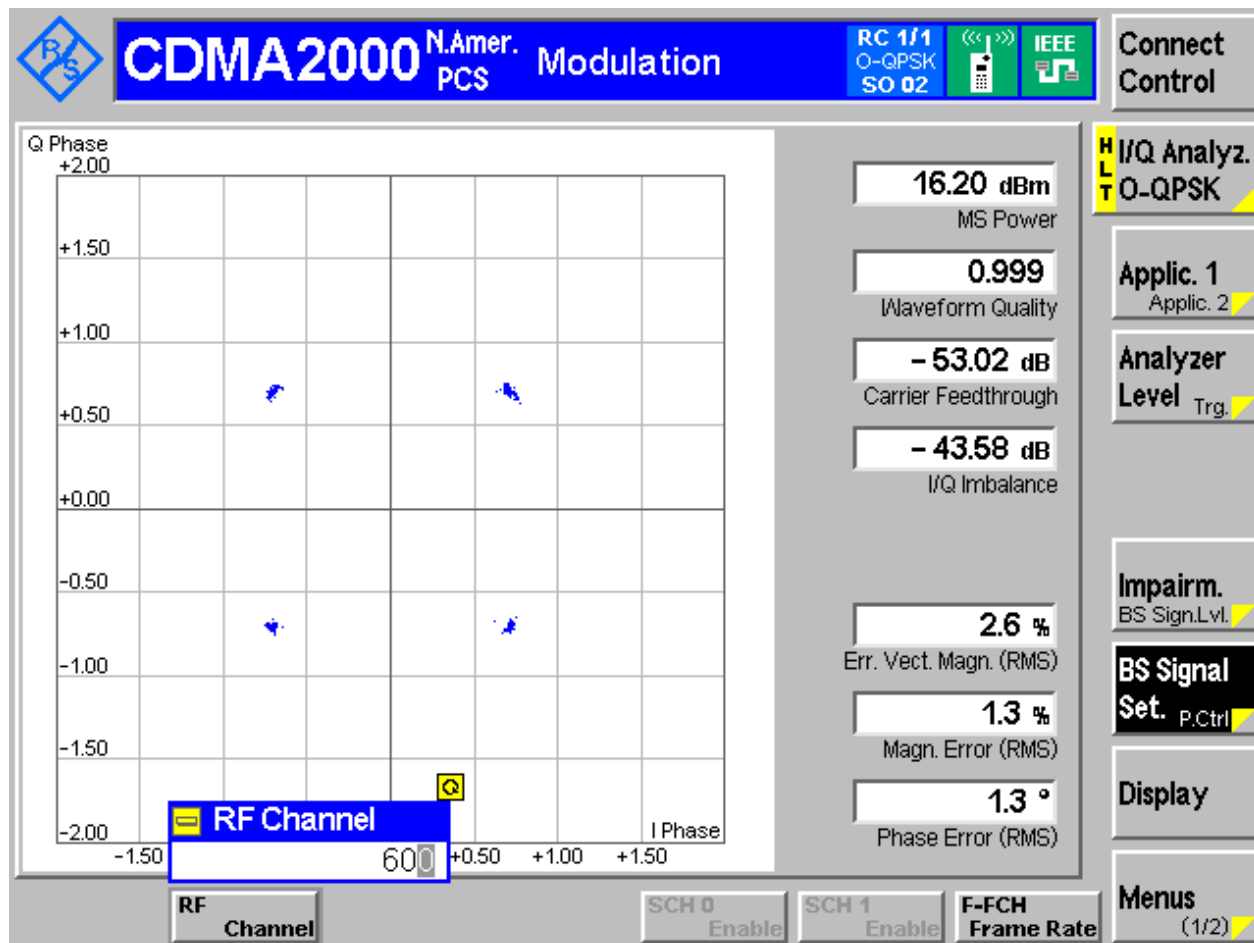
3.1.1.6.1 Test Channel = MCH



3.1.2 Test Band = BC1

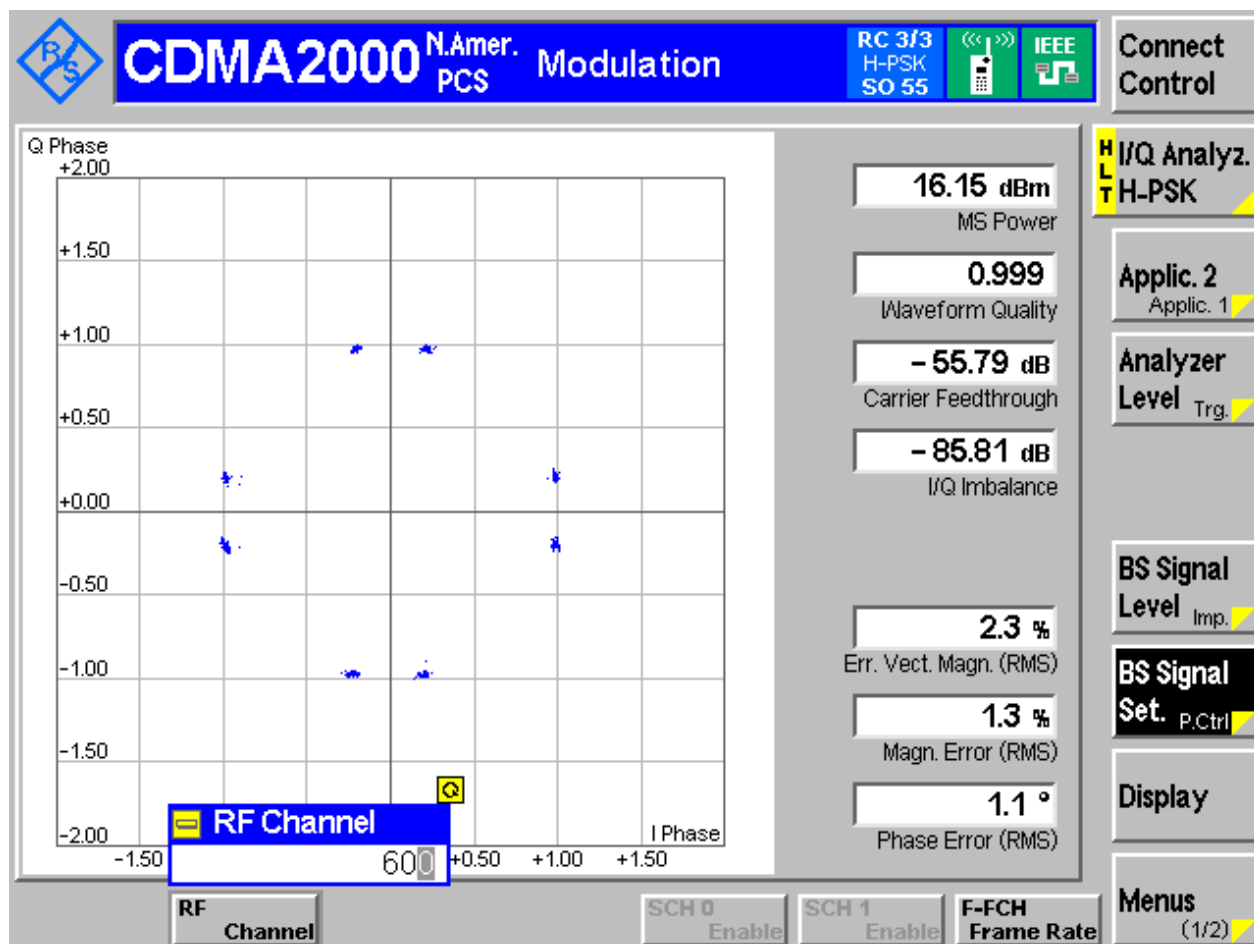
3.1.2.1 Test Mode = CDMA/1X/TM1

3.1.2.2.1 Test Channel = MCH



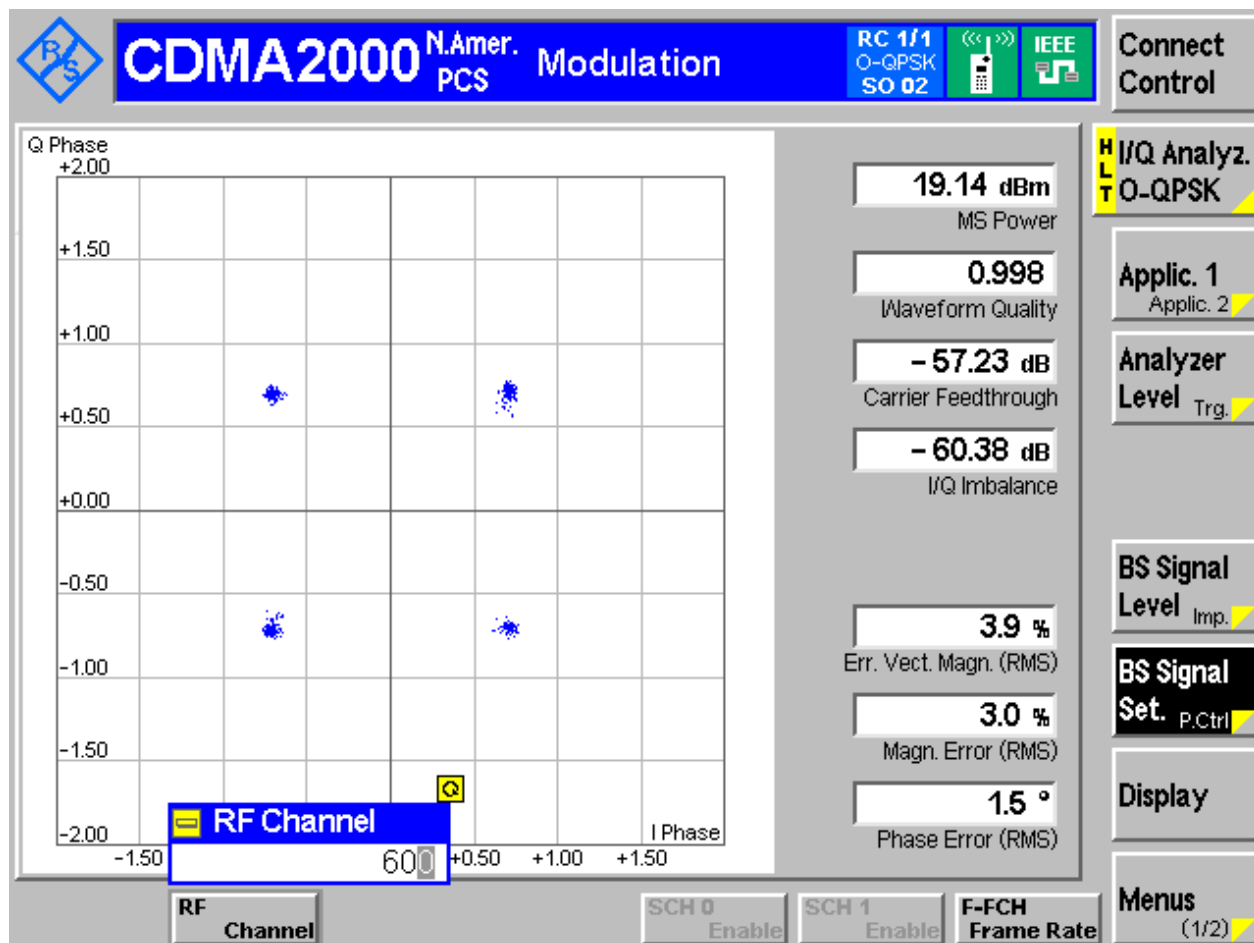
3.1.2.2 Test Mode = CDMA/1X/TM3

3.1.2.2.1 Test Channel = MCH



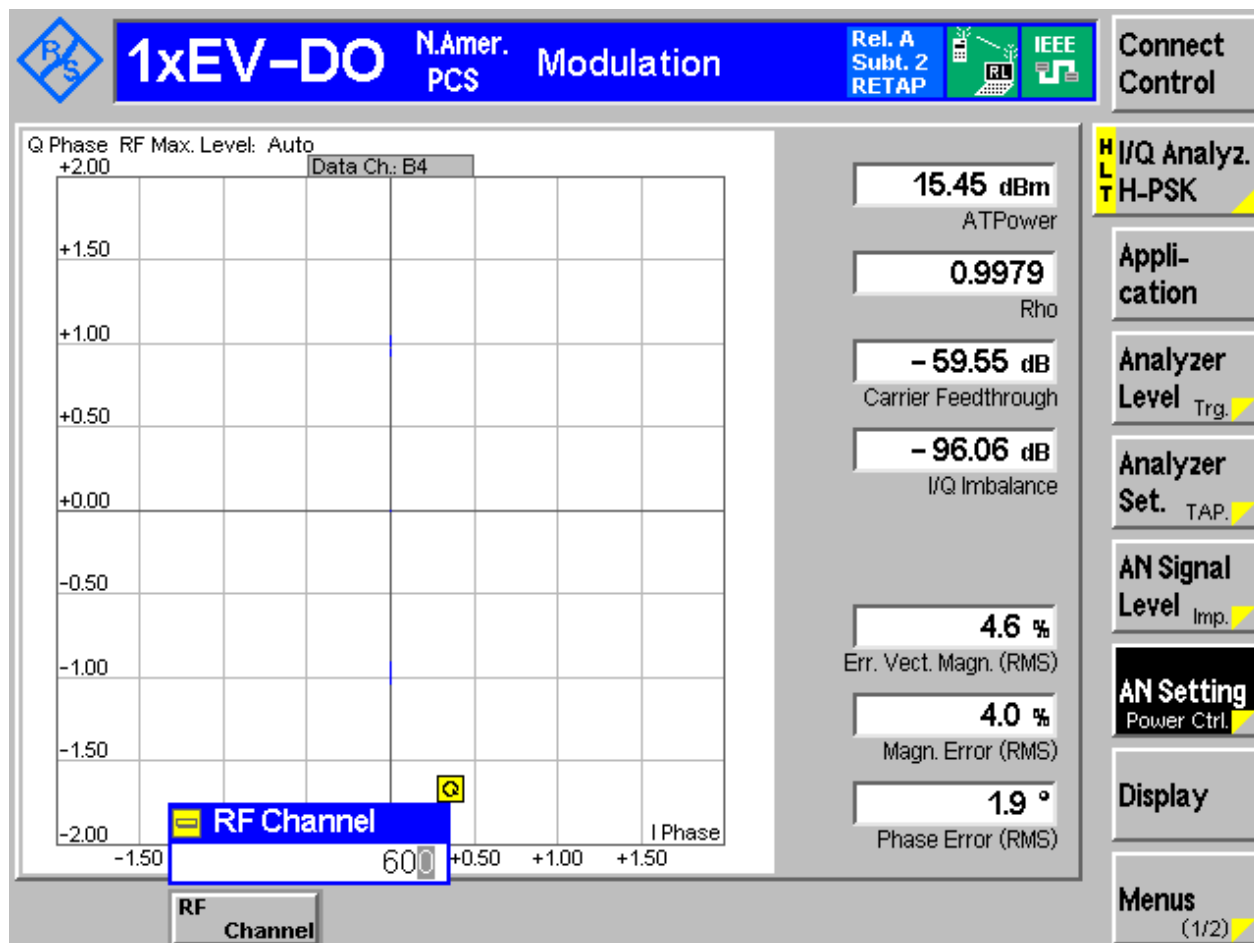
3.1.2.3 Test Mode = CDMA/EV-DO/Subtype0

3.1.2.3.1 Test Channel = MCH



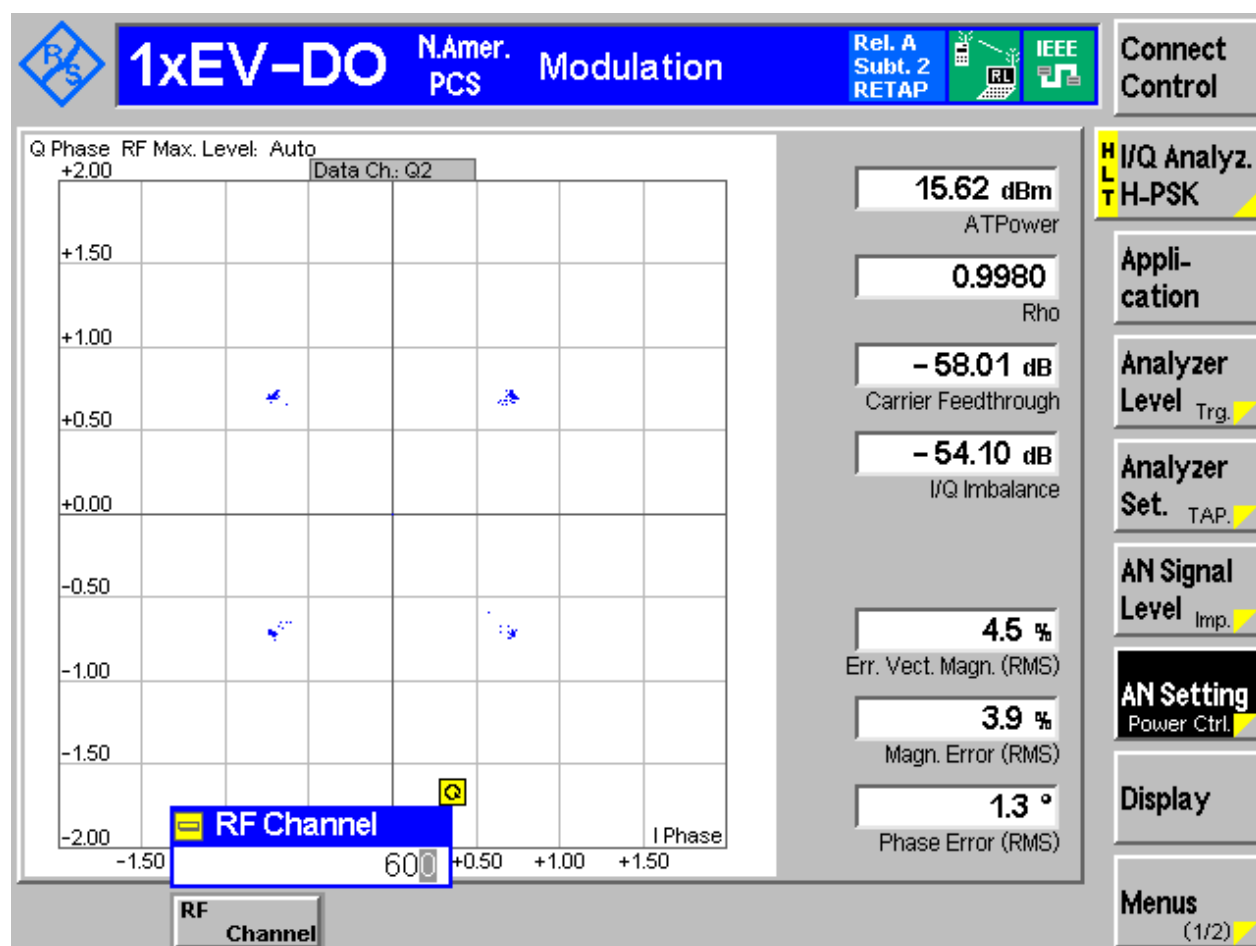
3.1.2.4 Test Mode = CDMA/EV-DO/Subtype2/256

3.1.2.4.1 Test Channel = MCH



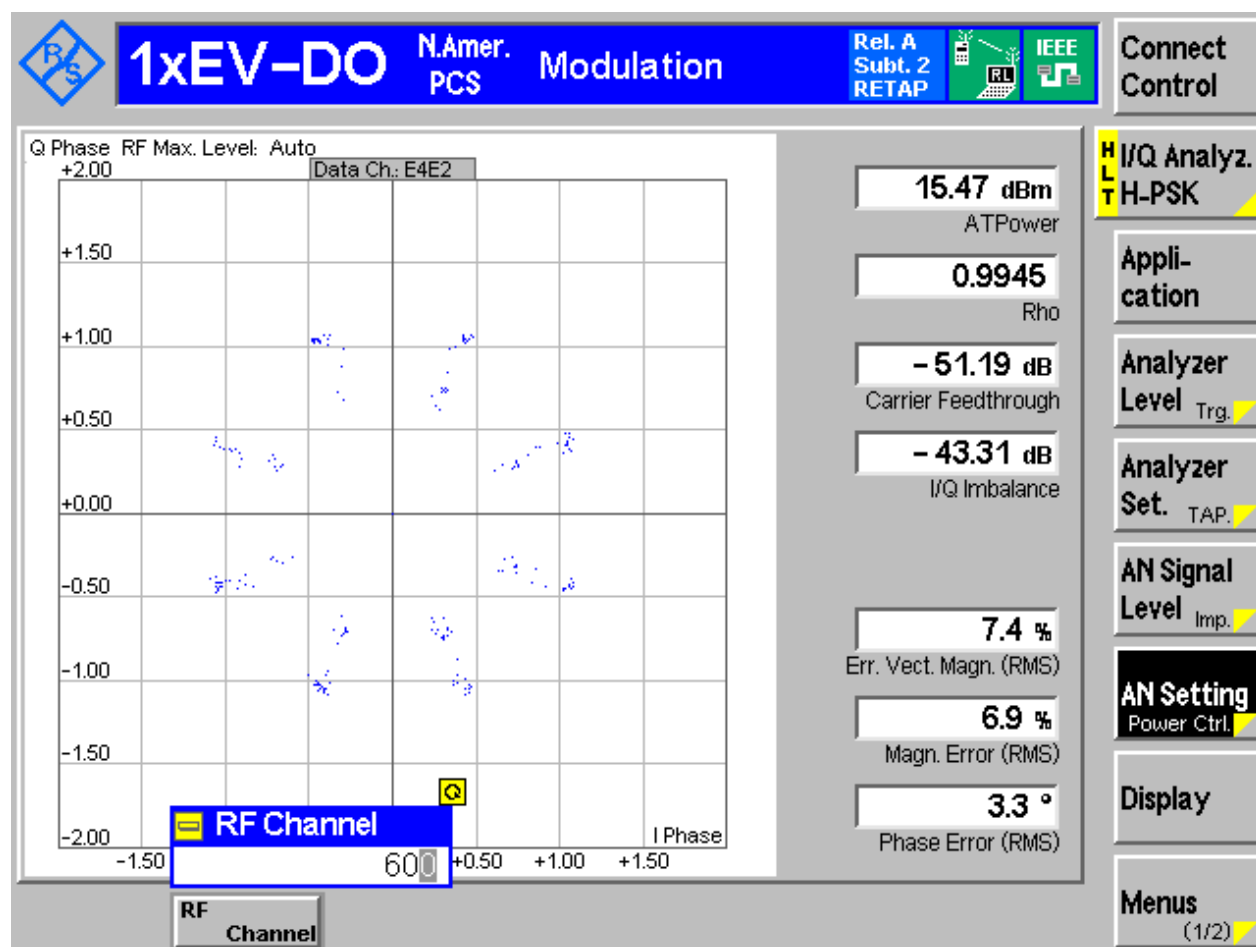
3.1.2.5 Test Mode = CDMA/EV-DO/Subtype2/4096

3.1.2.5.1 Test Channel = MCH



3.1.2.6 Test Mode = CDMA/EV-DO/Subtype2/12288

3.1.2.6.1 Test Channel = MCH



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BC0	CDMA/1X/TM1	LCH	1.29	1.46	Pass
		MCH	1.30	1.45	Pass
		HCH	1.30	1.46	Pass
	CDMA/1X/TM3	LCH	1.29	1.46	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.45	Pass
BC0	CDMA/EV-DO/ Subtype0	LCH	1.28	1.45	Pass
		MCH	1.28	1.44	Pass
		HCH	1.29	1.45	Pass
	CDMA/EV-DO/ Subtype2/256	LCH	1.28	1.45	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.45	Pass
	CDMA/EV-DO/ Subtype2/409 6	LCH	1.28	1.45	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.45	Pass
	CDMA/EV-DO/ Subtype2/122 88	LCH	1.29	1.46	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.46	Pass
BC1	CDMA/1X/TM1	LCH	1.30	1.48	Pass
		MCH	1.29	1.45	Pass
		HCH	1.30	1.47	Pass
	CDMA/1X/TM3	LCH	1.29	1.46	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.46	Pass
BC1	CDMA/EV-DO/ Subtype0	LCH	1.28	1.45	Pass
		MCH	1.28	1.44	Pass
		HCH	1.29	1.45	Pass
	CDMA/EV-DO/ Subtype2/256	LCH	1.28	1.45	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.46	Pass
	CDMA/EV-DO/ Subtype2/409	LCH	1.29	1.45	Pass
		MCH	1.28	1.45	Pass



Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	6	HCH	1.28	1.45	Pass
	CDMA/EV-DO/ Subtype2/122 88	LCH	1.28	1.46	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.45	Pass

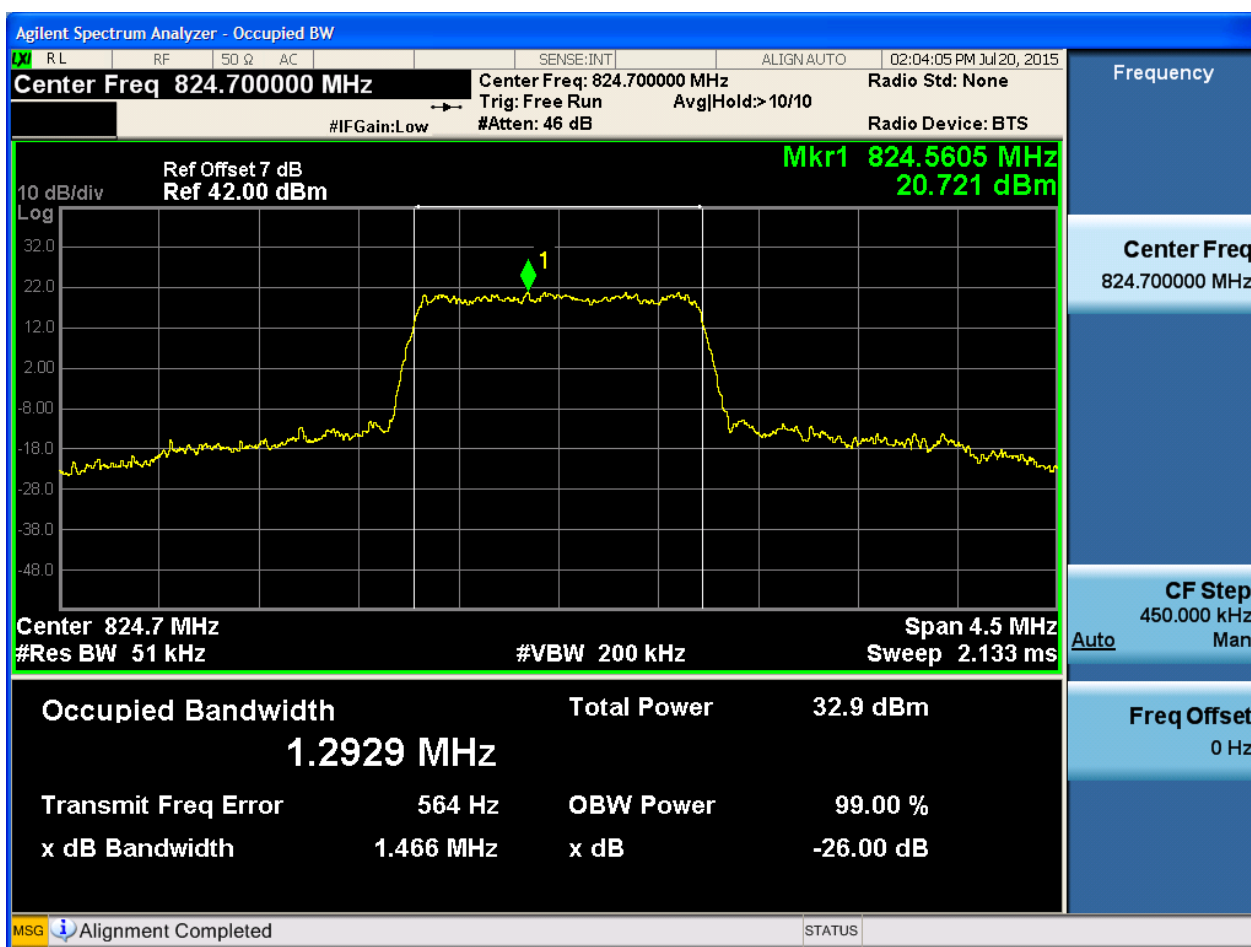
Part II - Test Plots

4.1 For CDMA

4.1.1 Test Band = BC0

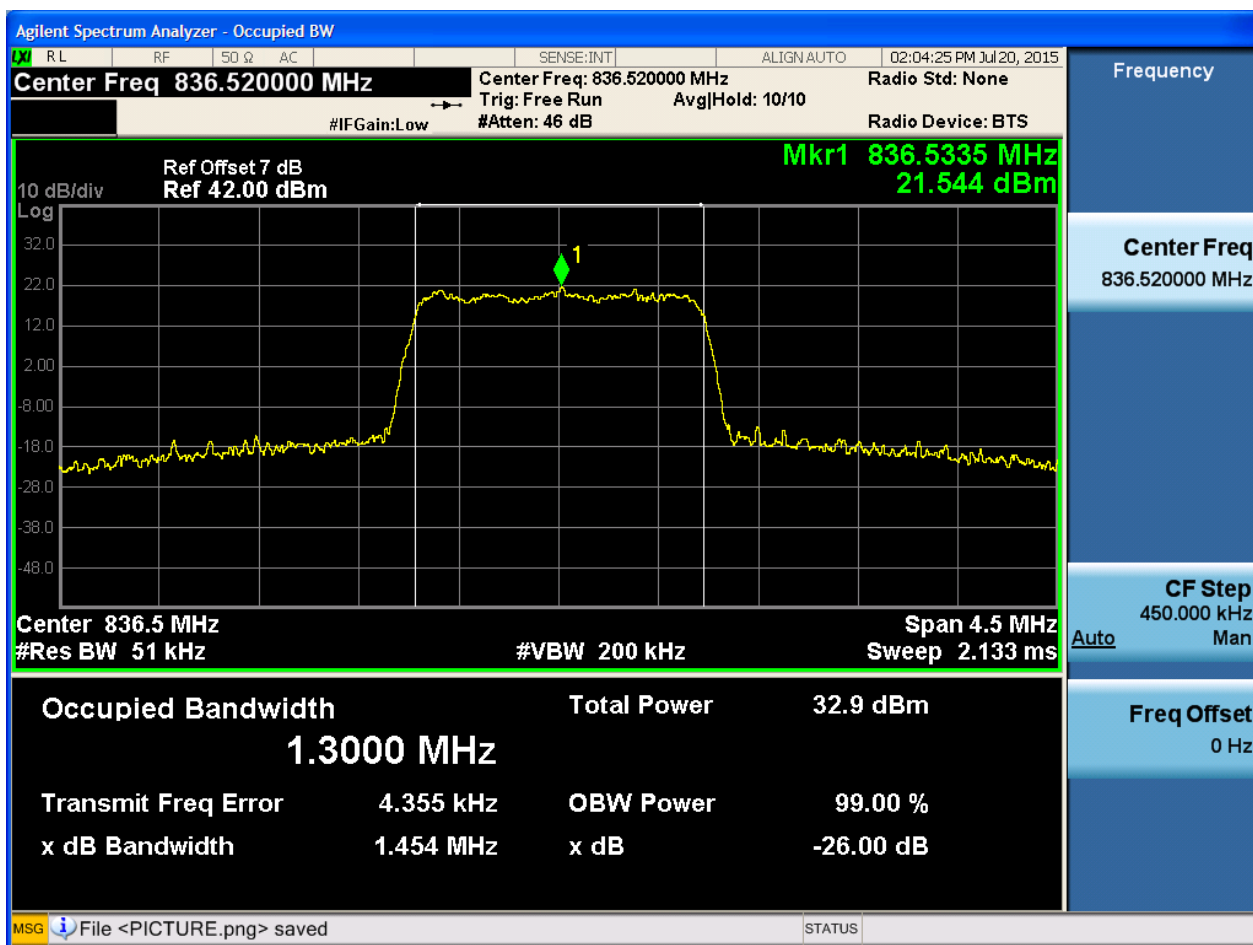
4.1.1.1 Test Mode = CDMA/1X/TM1

4.1.1.1.1 Test Channel = LCH



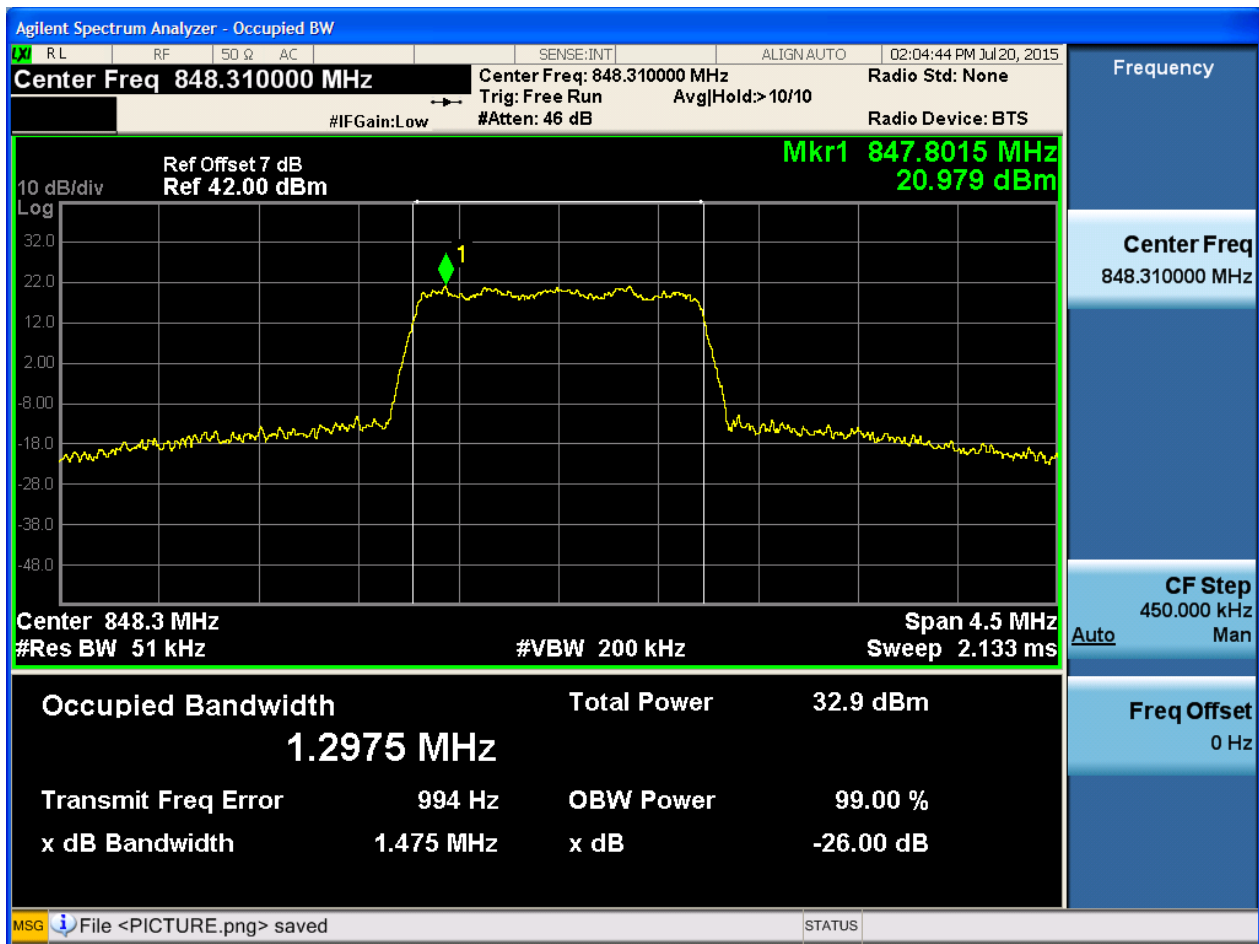


4.1.1.1.2 Test Channel = MCH





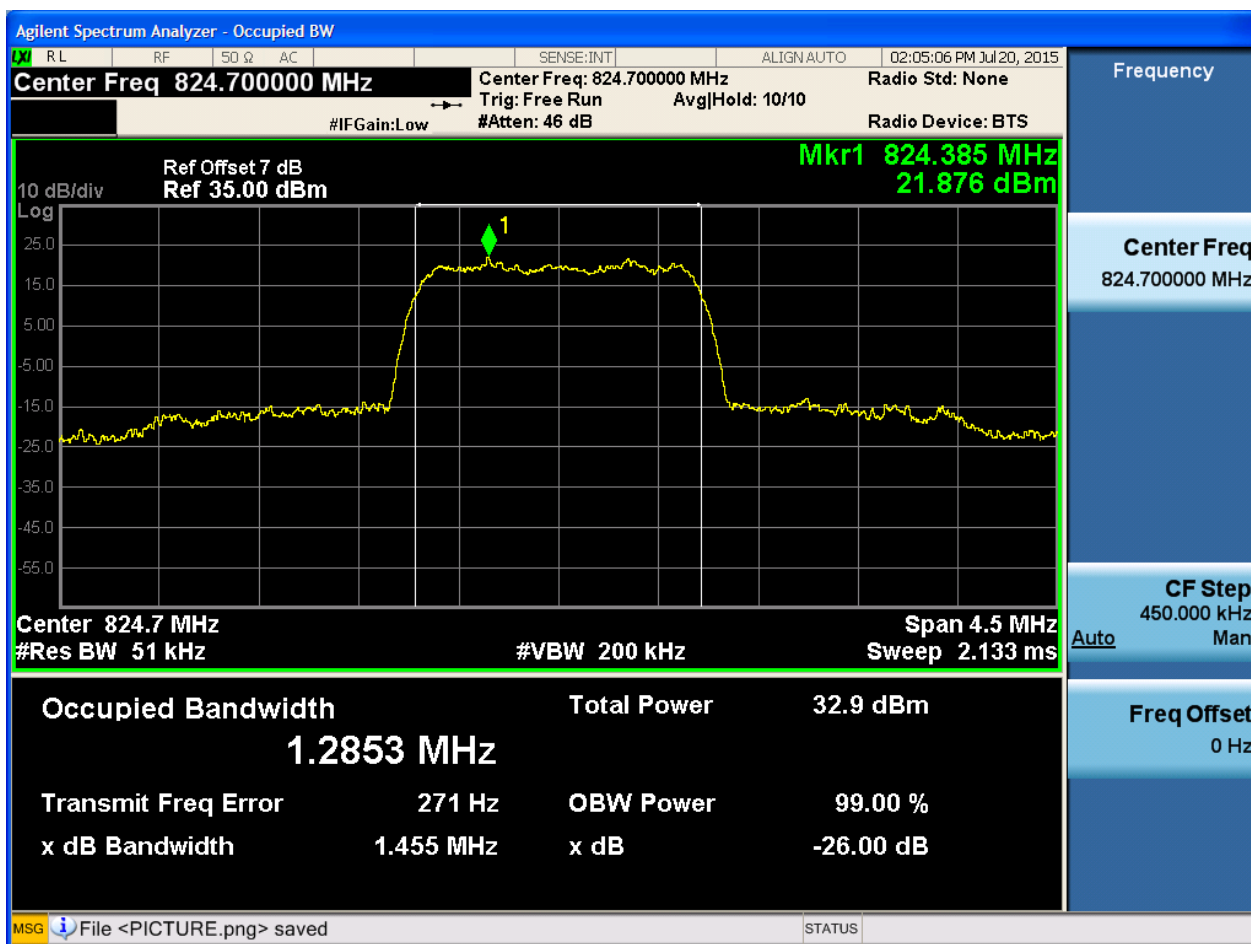
4.1.1.1.3 Test Channel = HCH





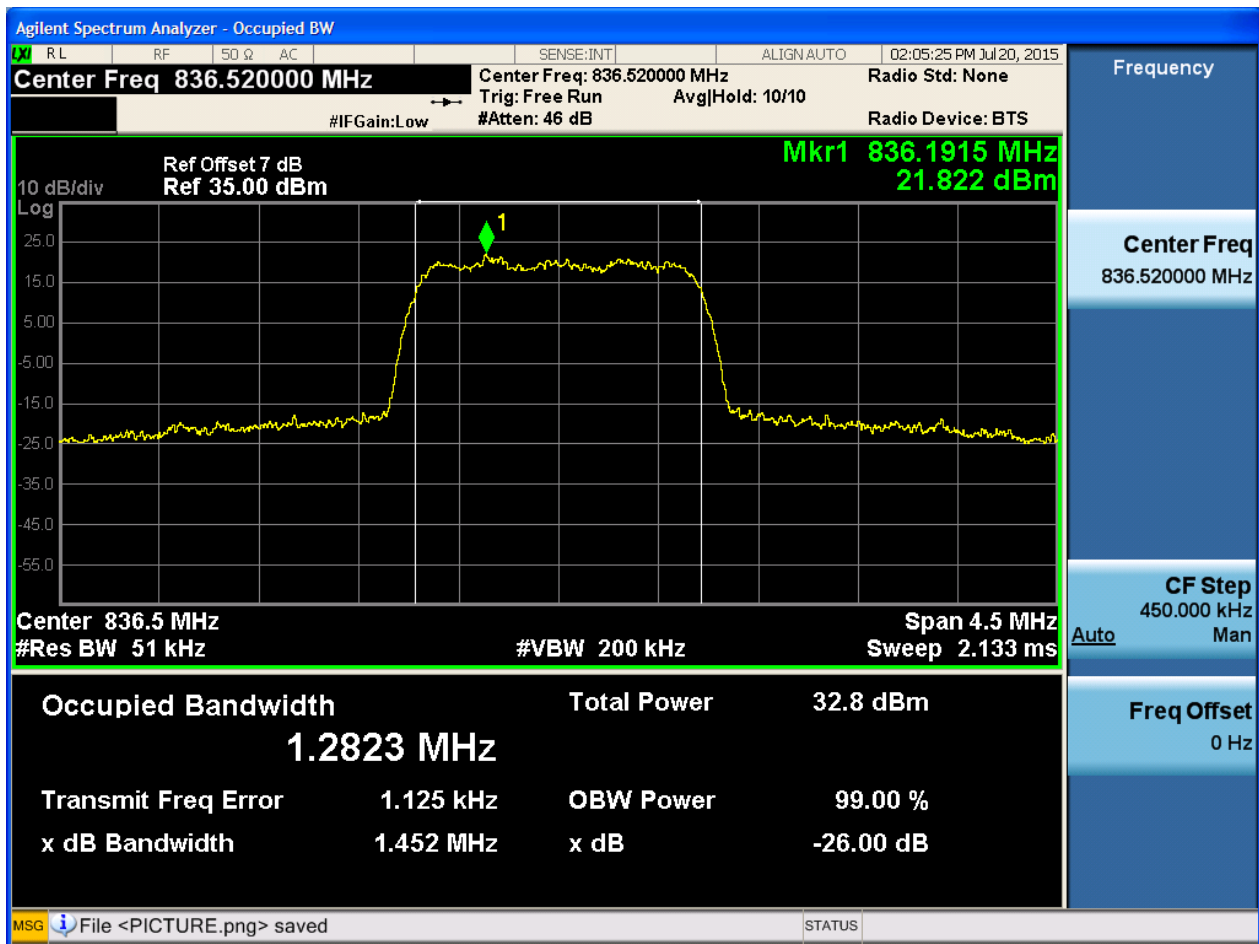
4.1.1.2 Test Mode = CDMA/1X/TM3

4.1.1.2.1 Test Channel = LCH



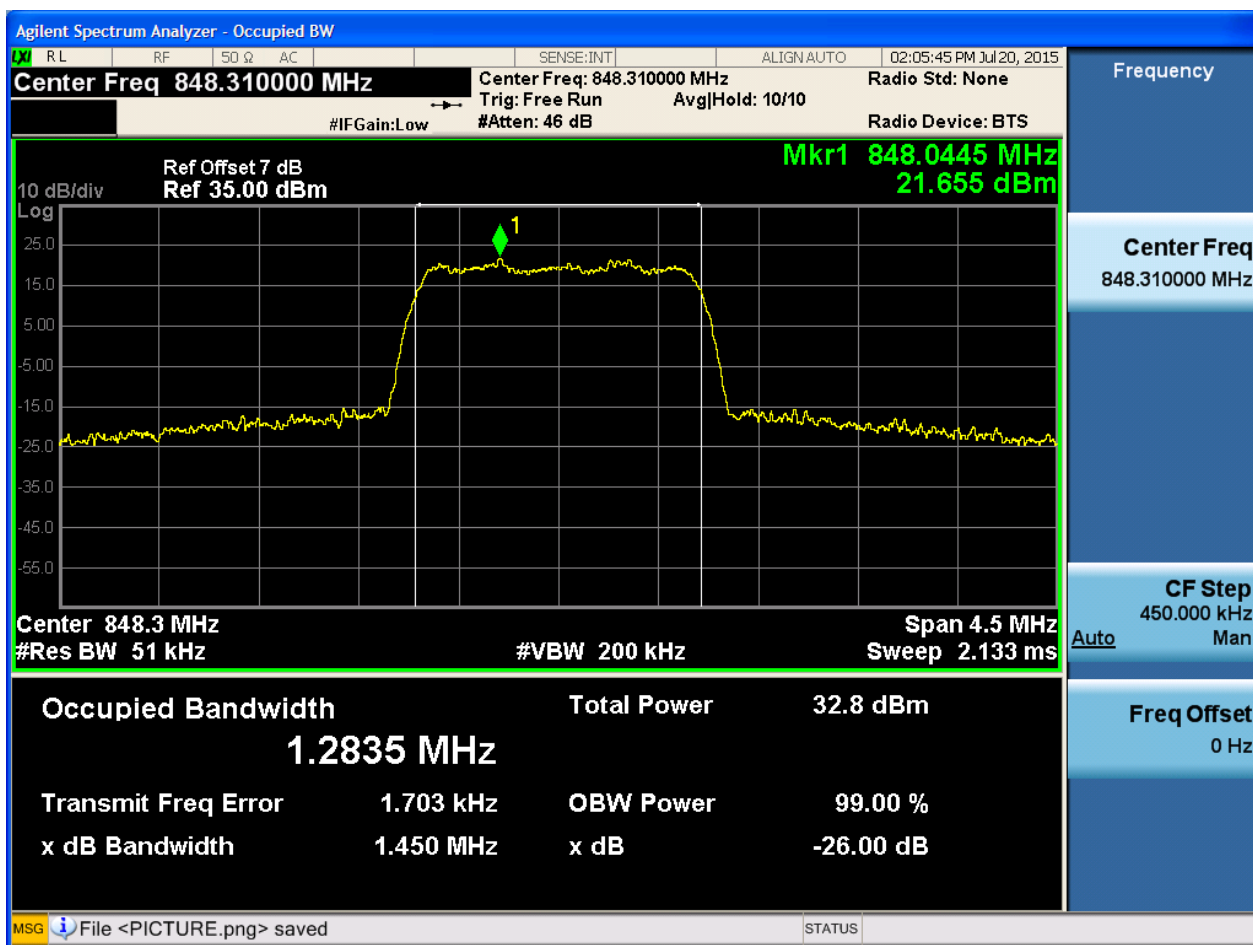


4.1.1.2.2 Test Channel = MCH



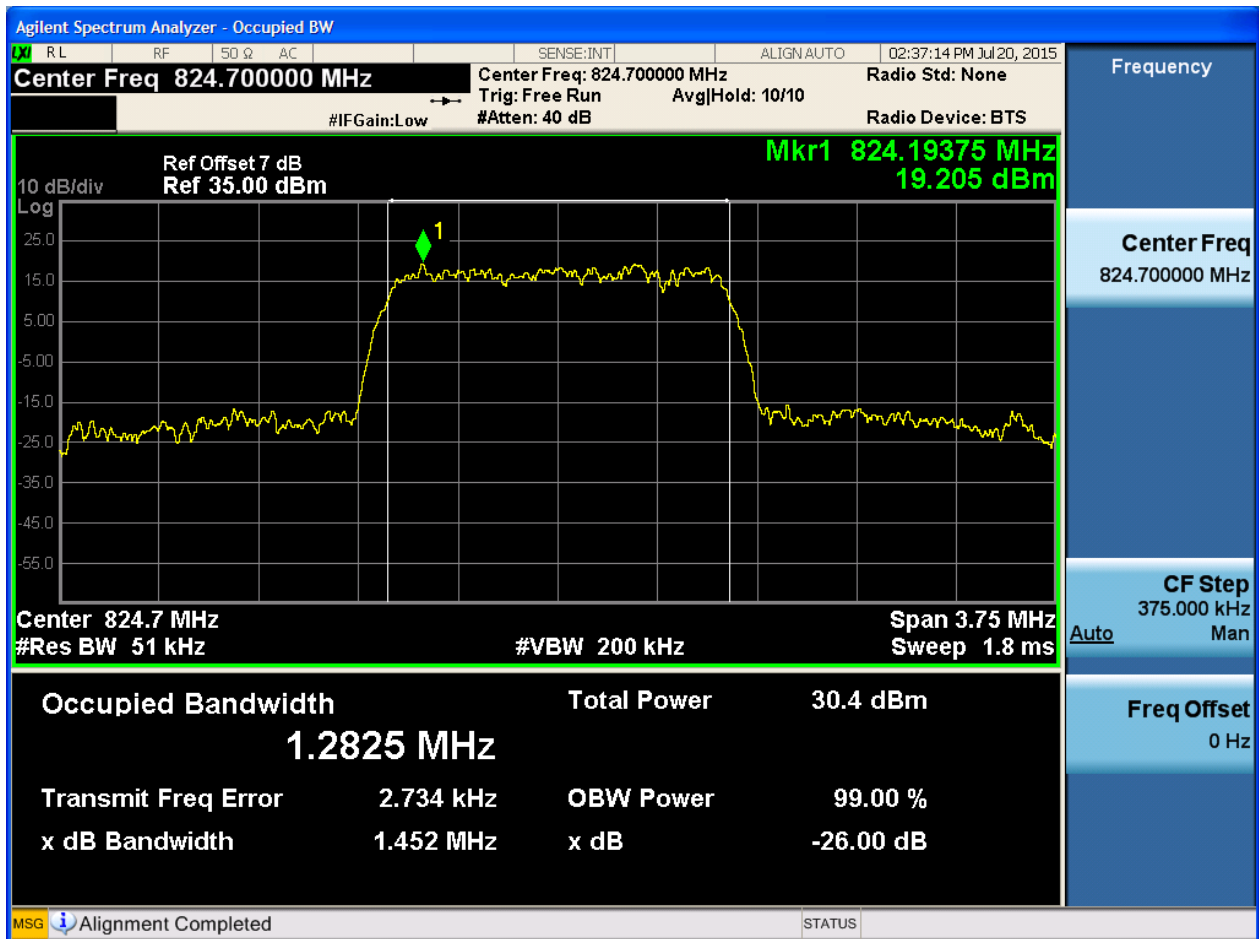


4.1.1.2.3 Test Channel = HCH

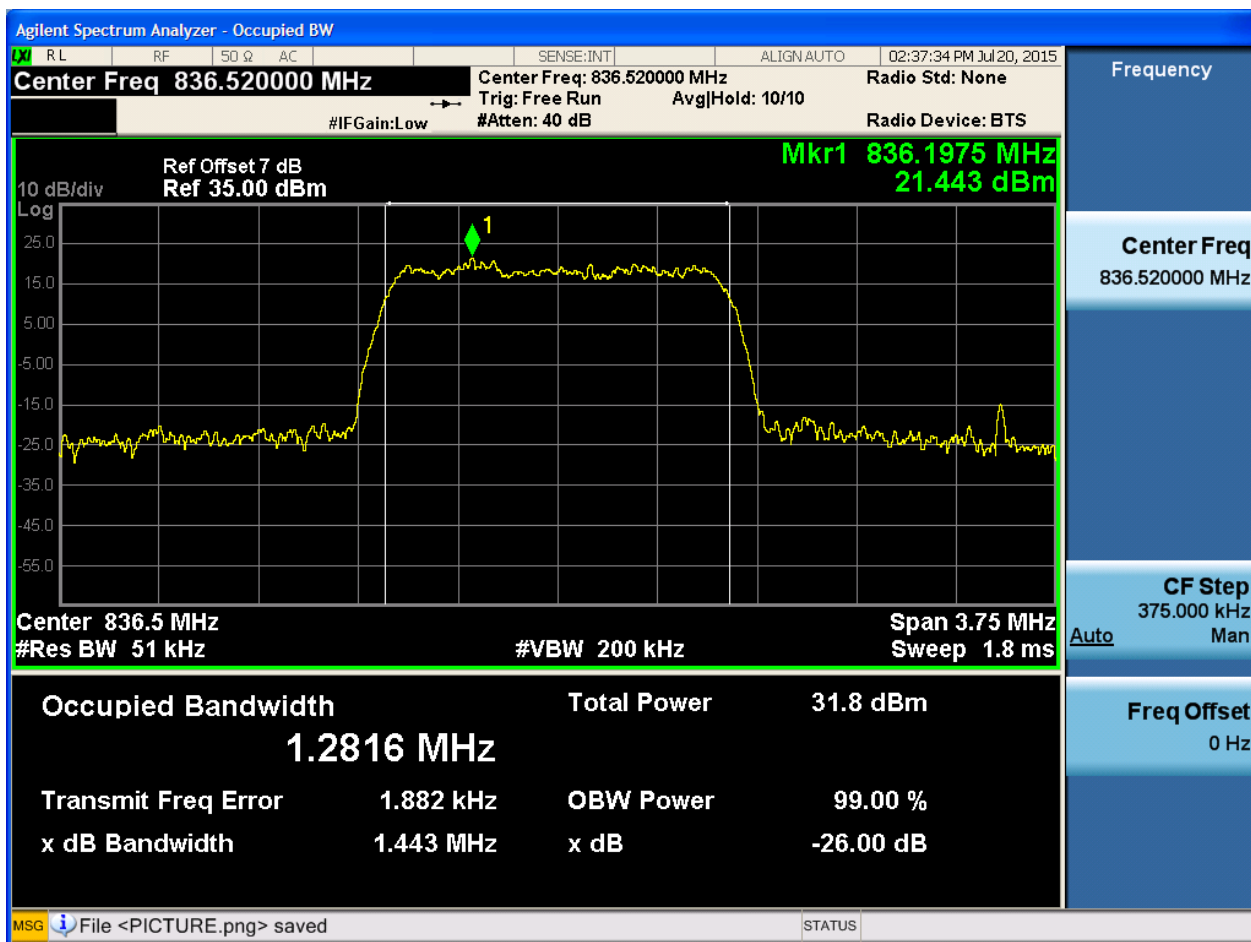


4.1.1.3 Test Mode = CDMA/EV-DO/Subtype0

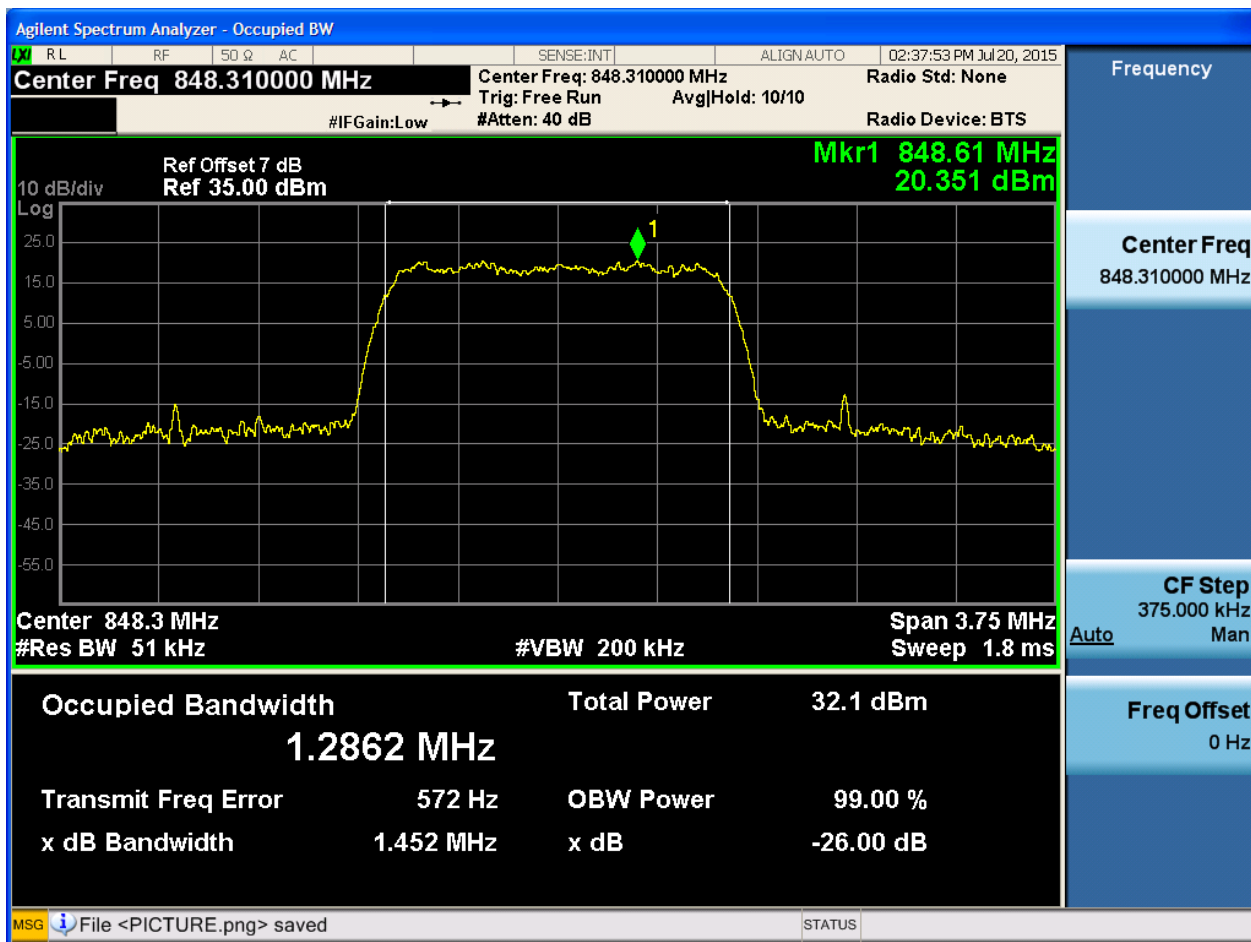
4.1.1.3.1 Test Channel = LCH



4.1.1.3.2 Test Channel = MCH



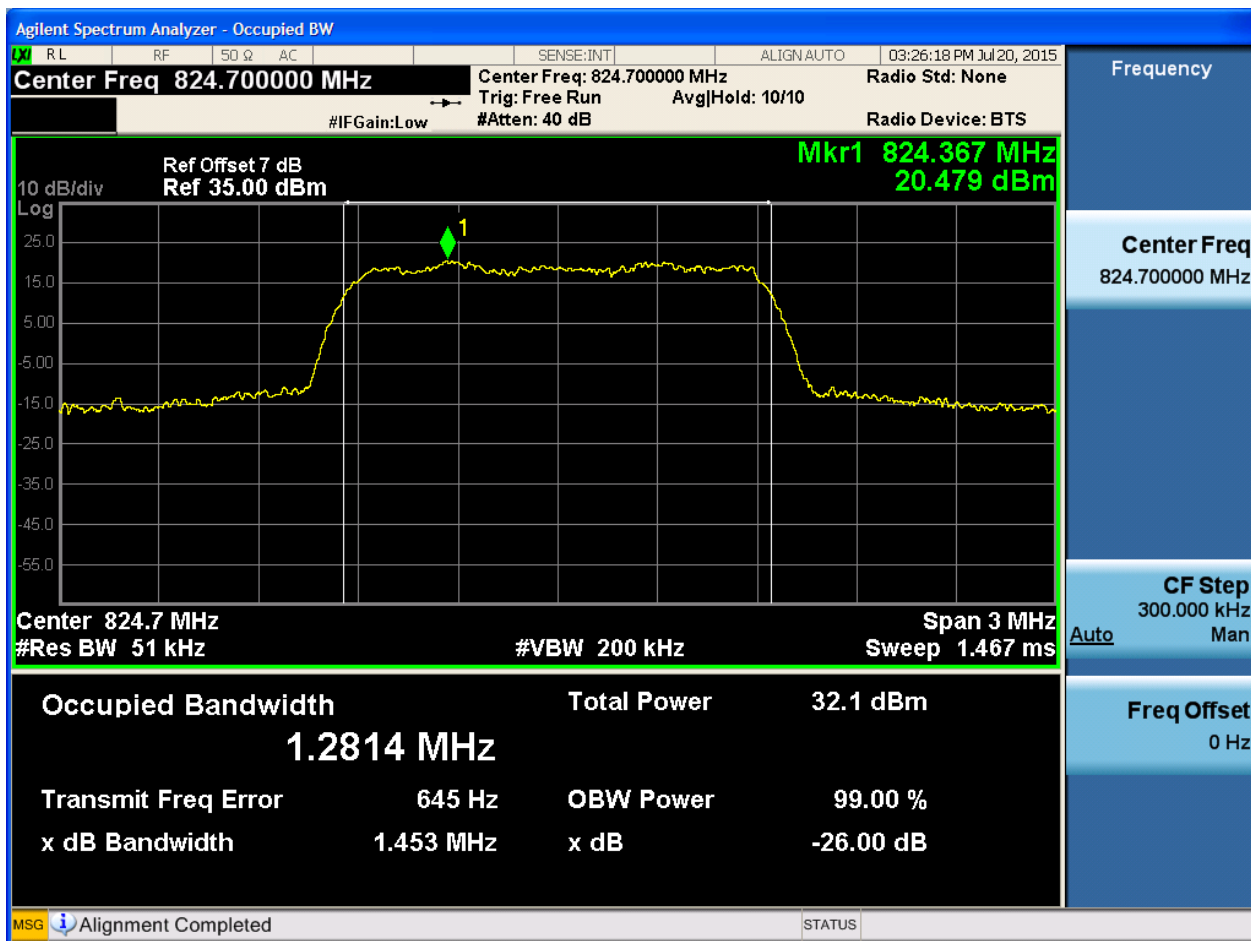
4.1.1.3.3 Test Channel = HCH



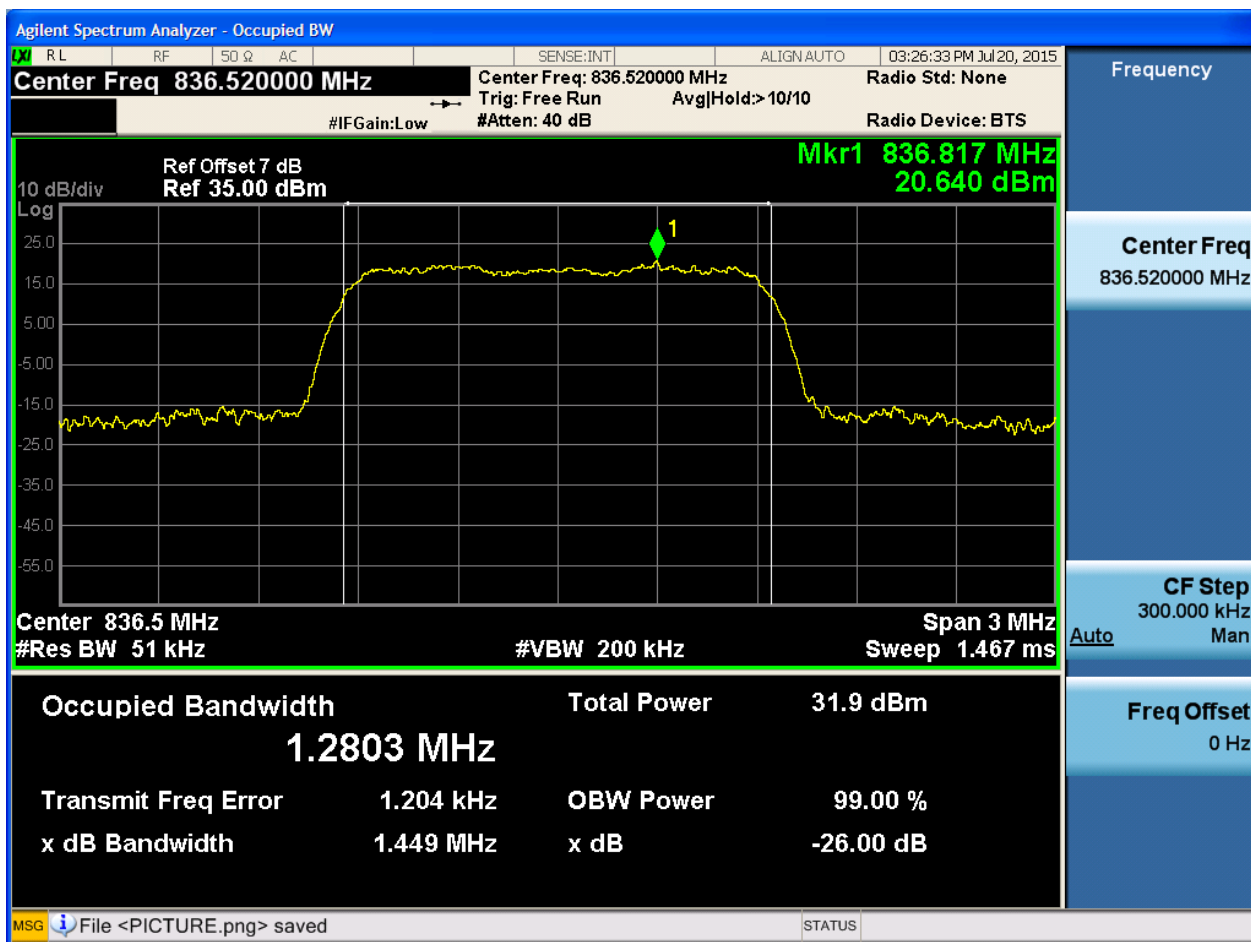


4.1.1.4 Test Mode = CDMA/EV-DO/Subtype2/256

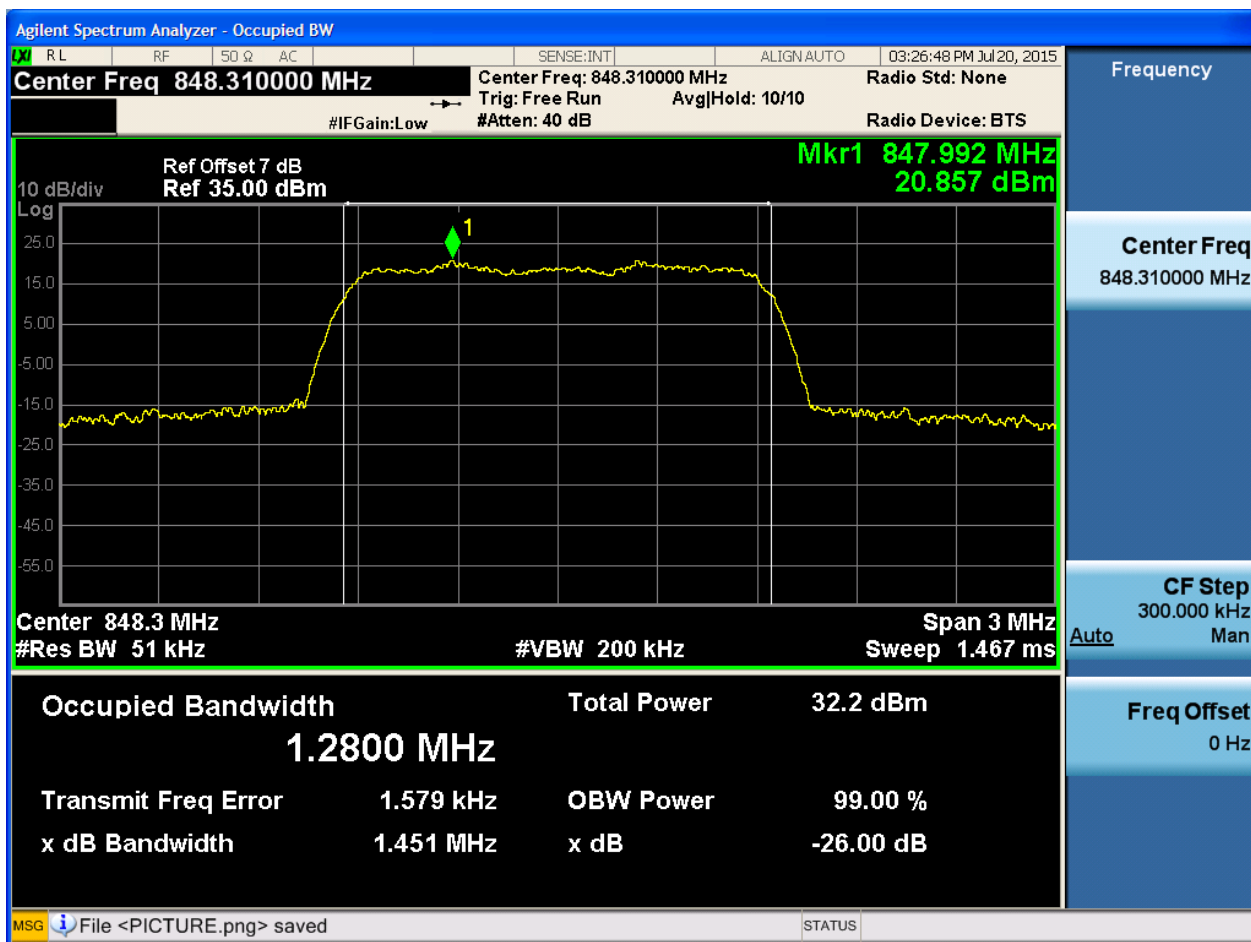
4.1.1.4.1 Test Channel = LCH



4.1.1.4.2 Test Channel = MCH

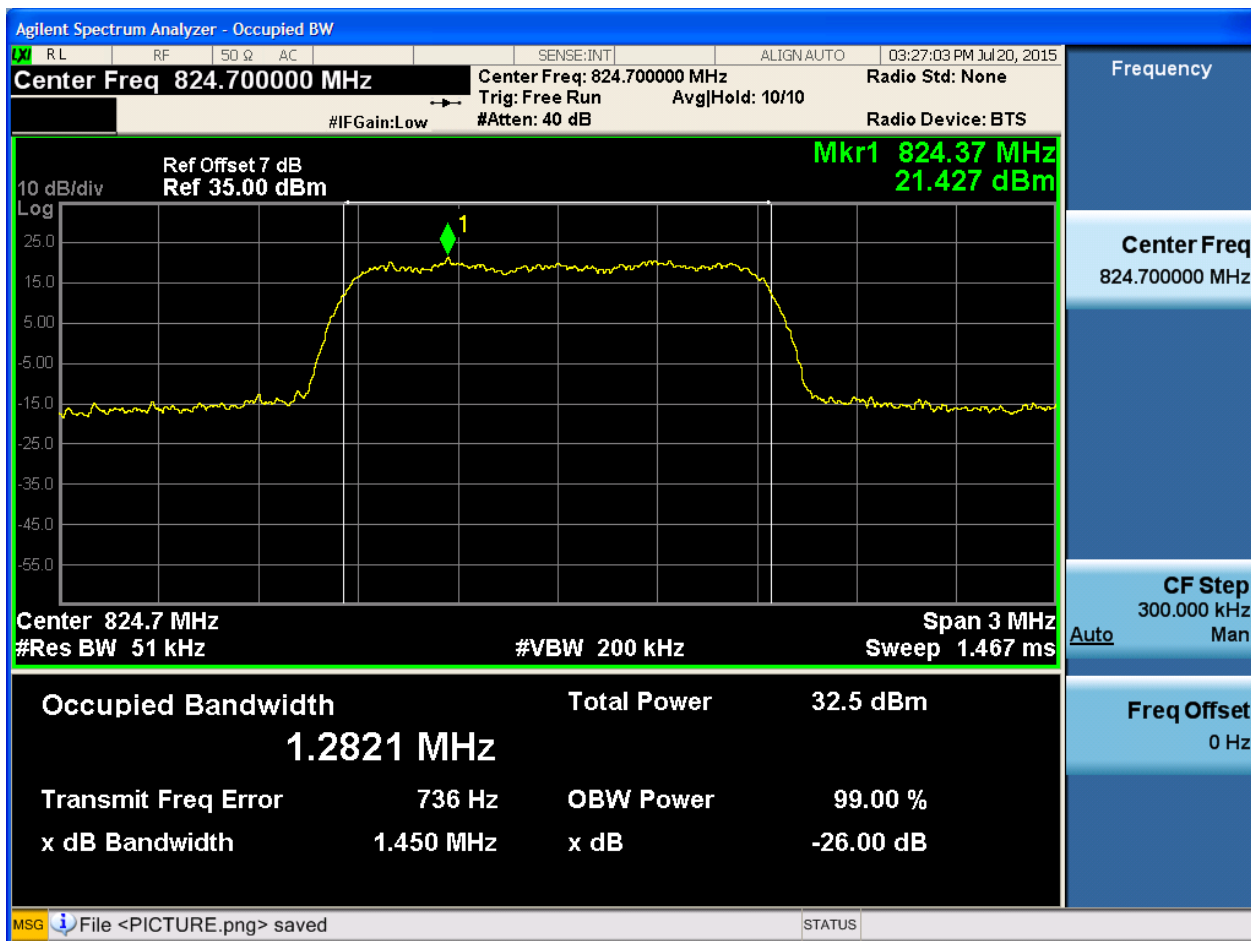


4.1.1.4.3 Test Channel = HCH

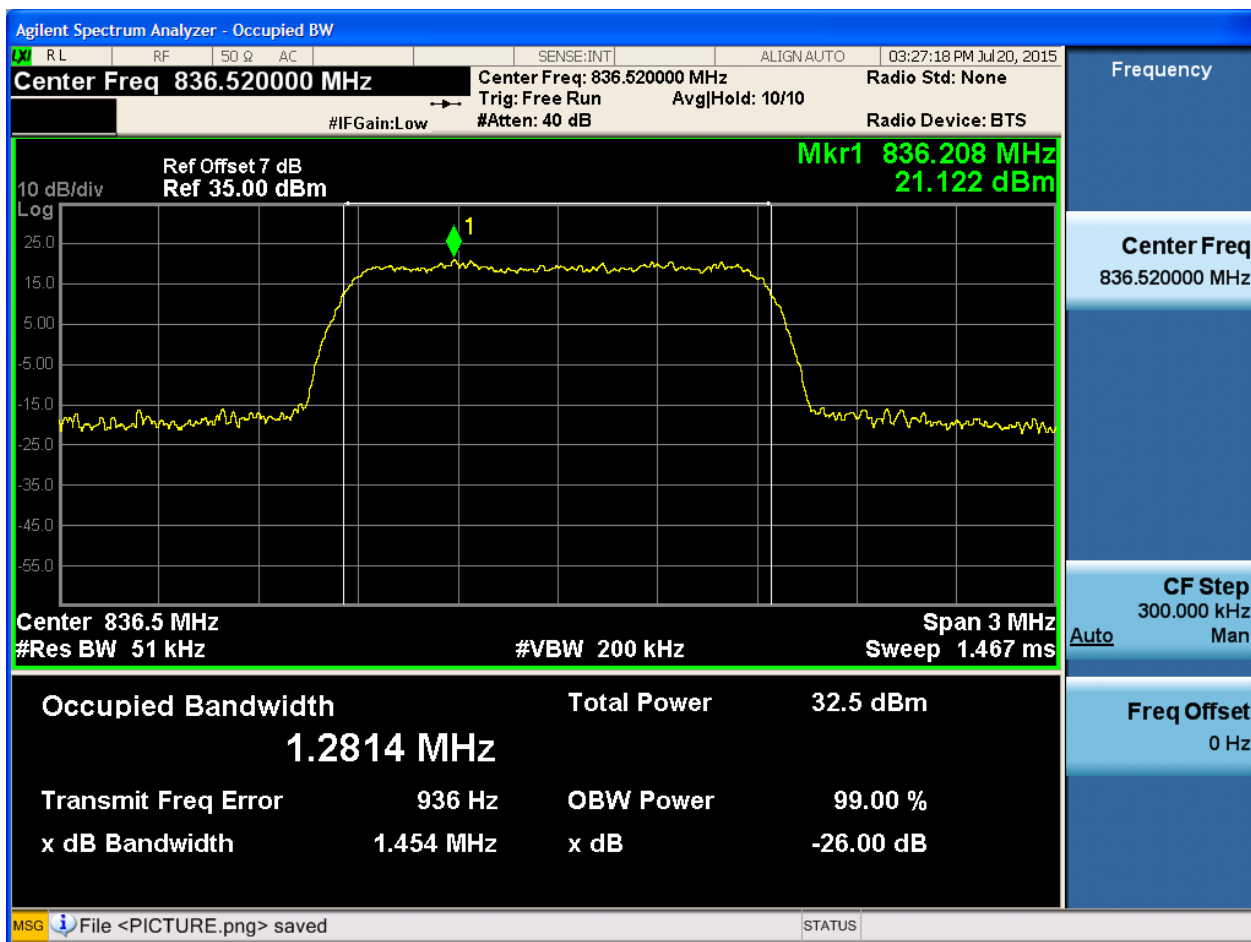


4.1.1.5 Test Mode = CDMA/EV-DO/Subtype2/4096

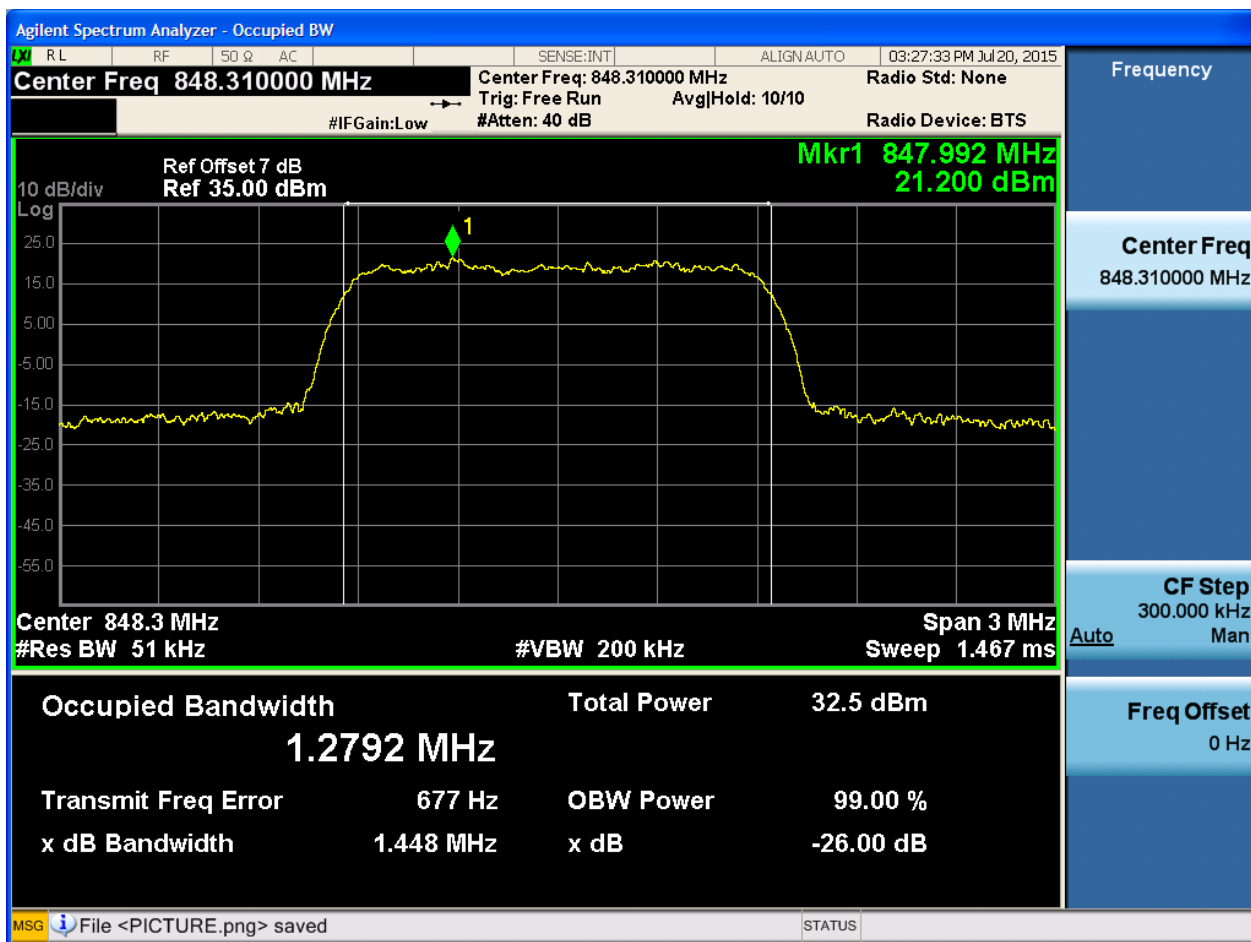
4.1.1.5.1 Test Channel = LCH



4.1.1.5.2 Test Channel = MCH

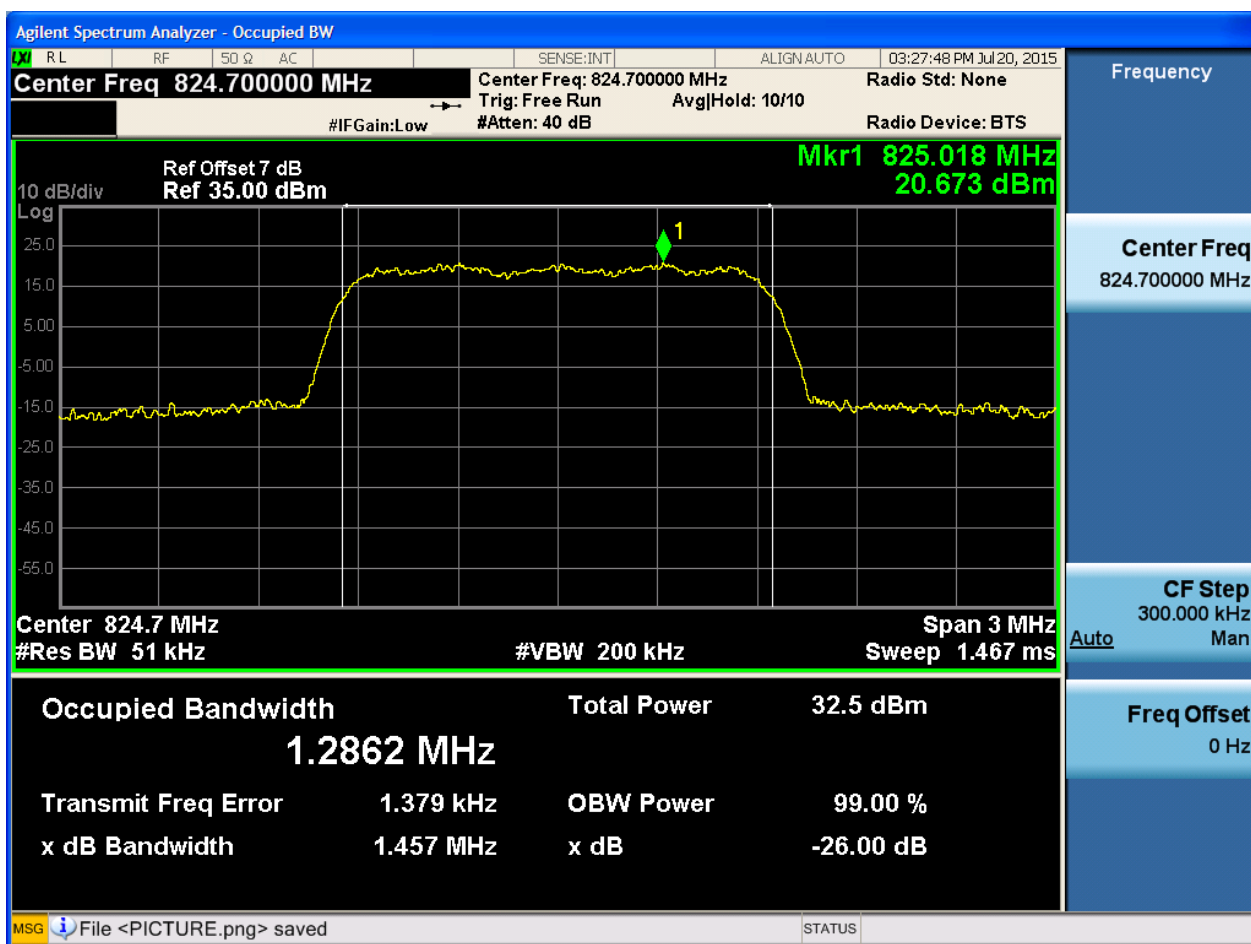


4.1.1.5.3 Test Channel = HCH

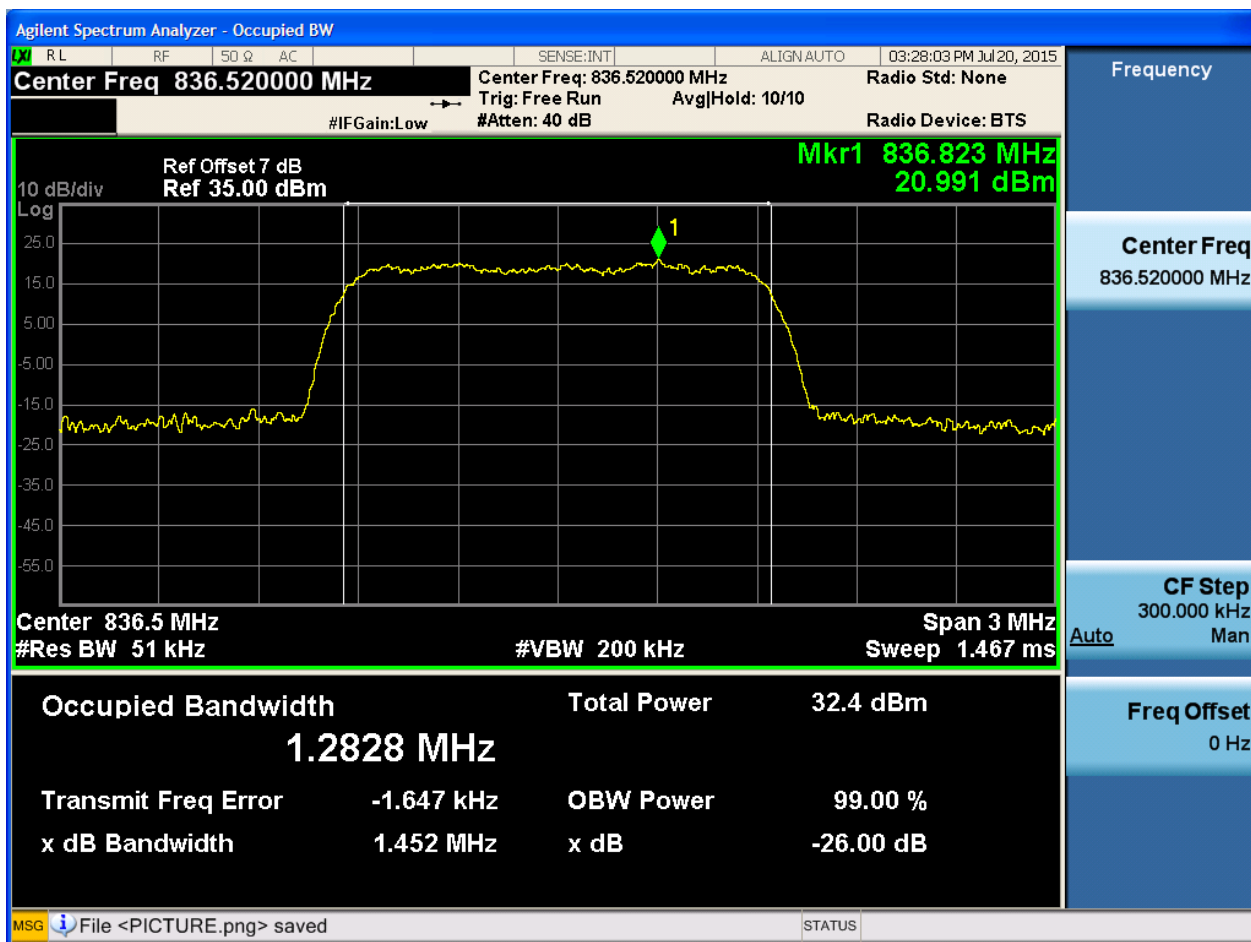


4.1.1.6 Test Mode = CDMA/EV-DO/Subtype2/12288

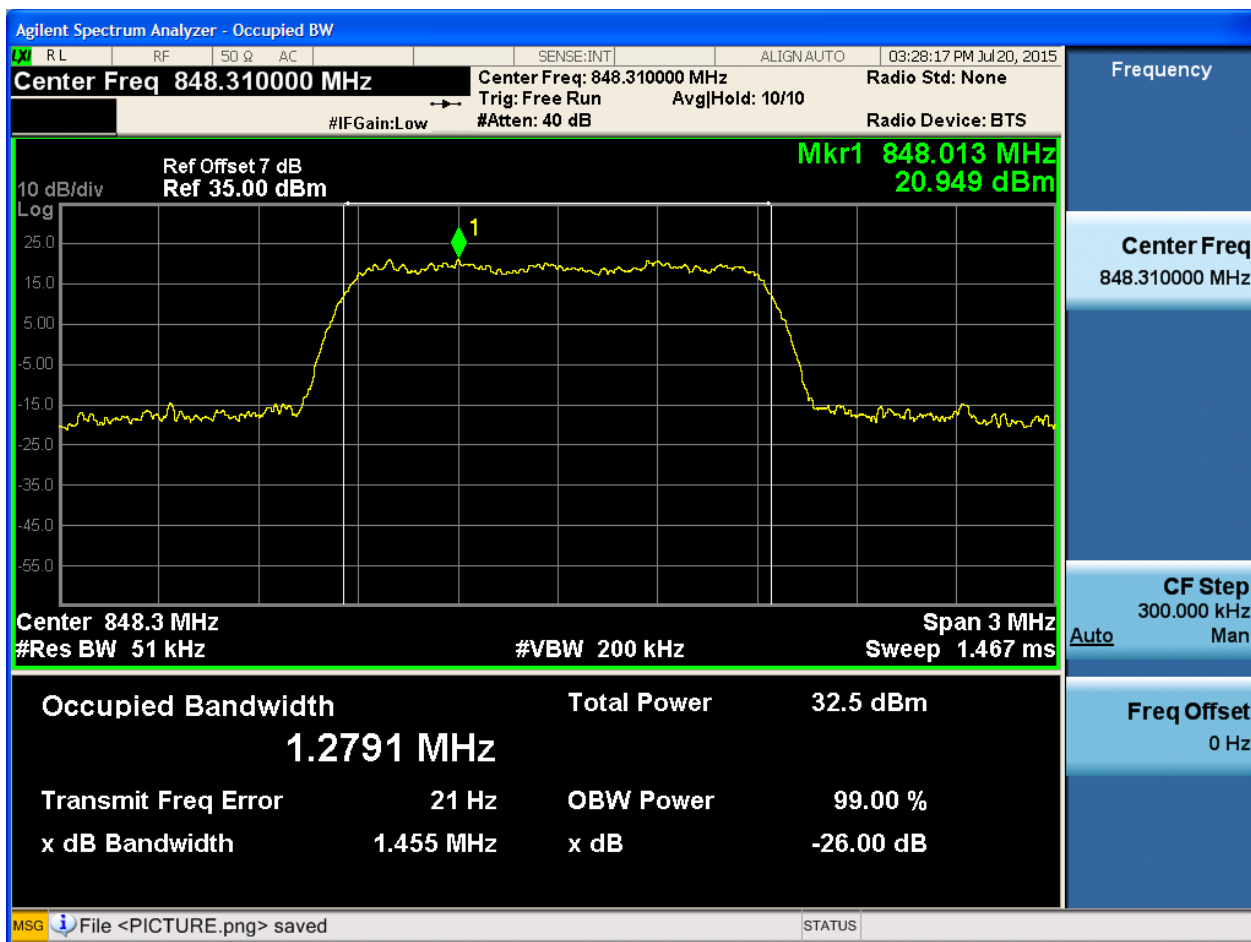
4.1.1.6.1 Test Channel = LCH



4.1.1.6.2 Test Channel = MCH



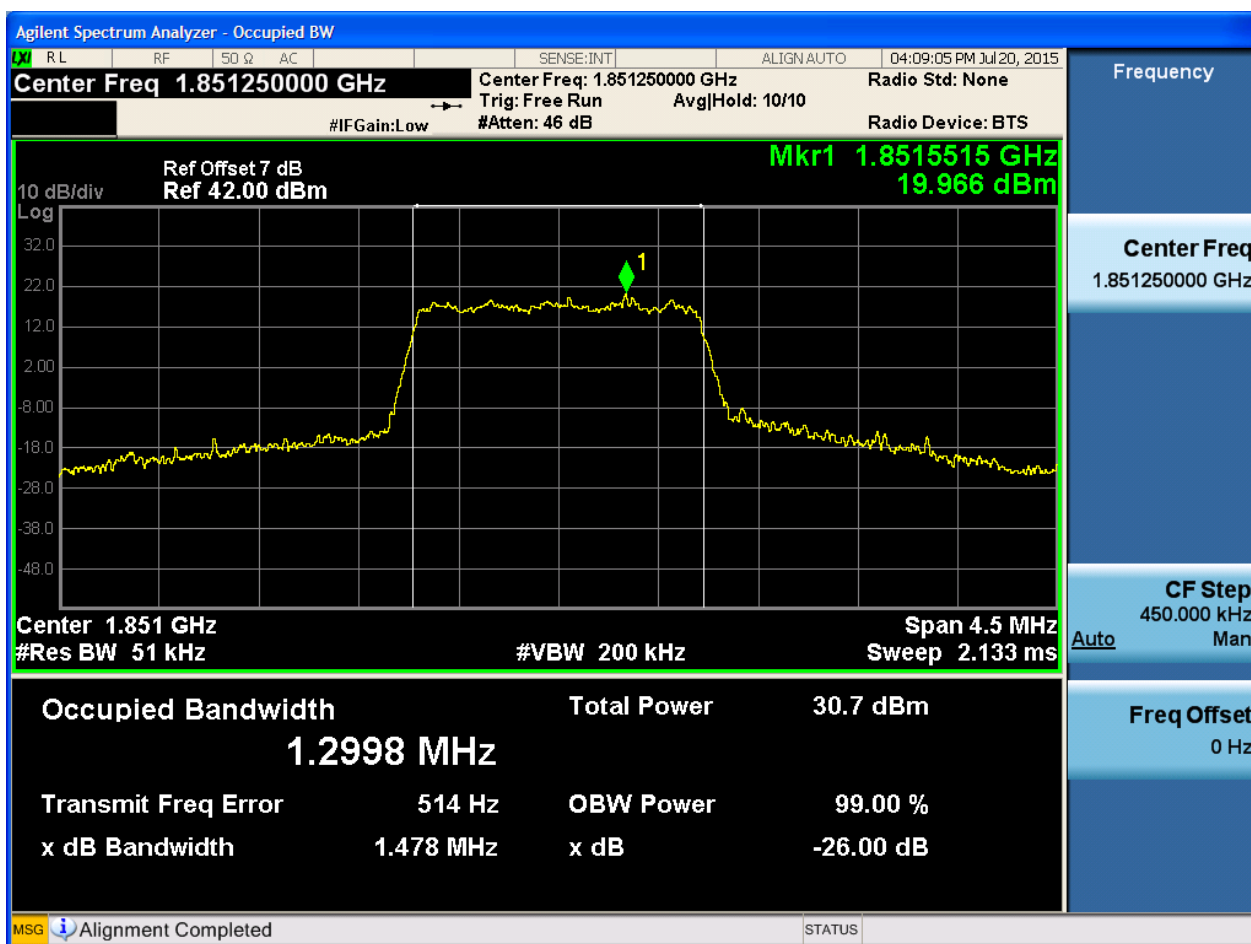
4.1.1.6.3 Test Channel = HCH



4.1.2 Test Band = BC1

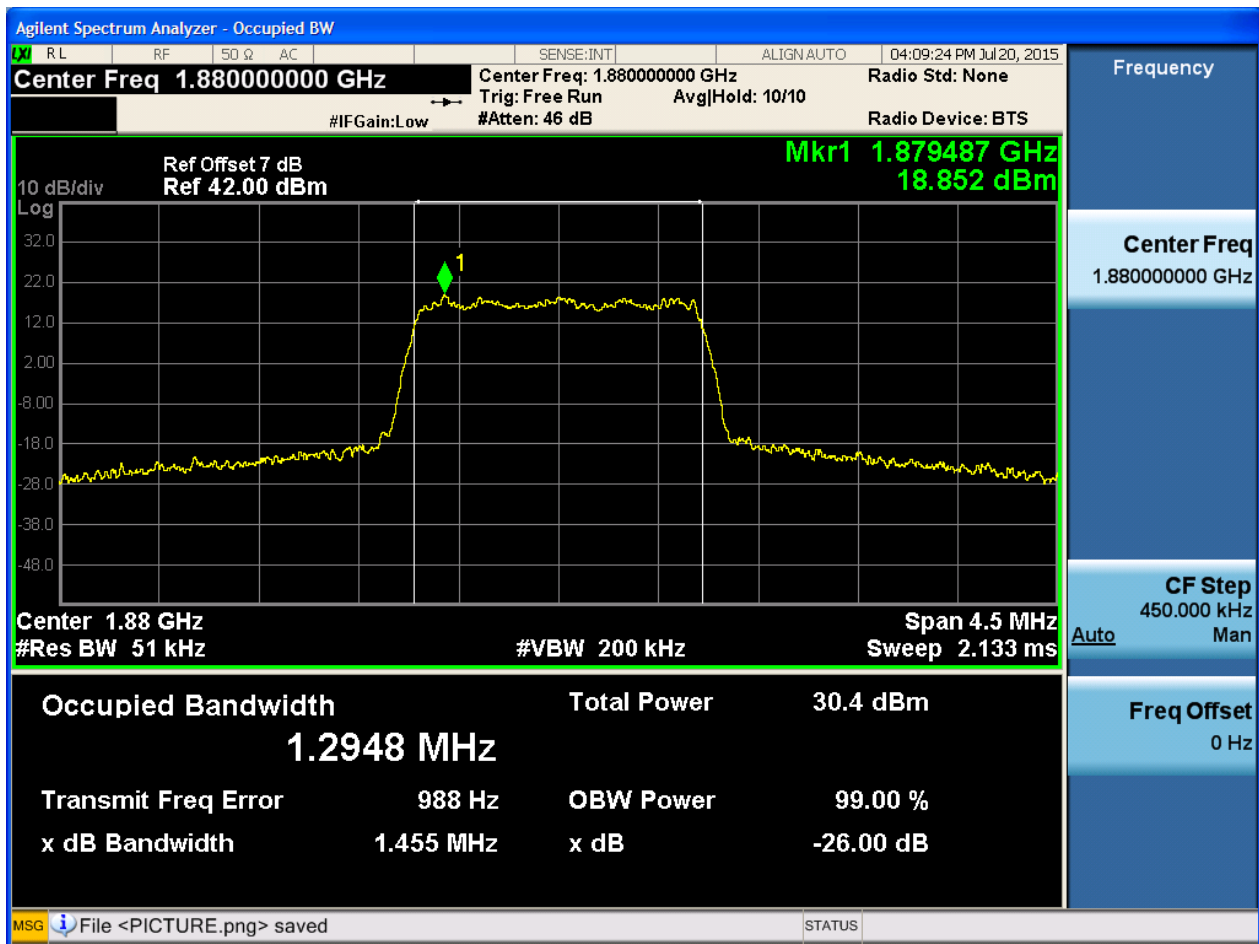
4.1.2.1 Test Mode = CDMA/1X/TM1

4.1.2.1.1 Test Channel = LCH



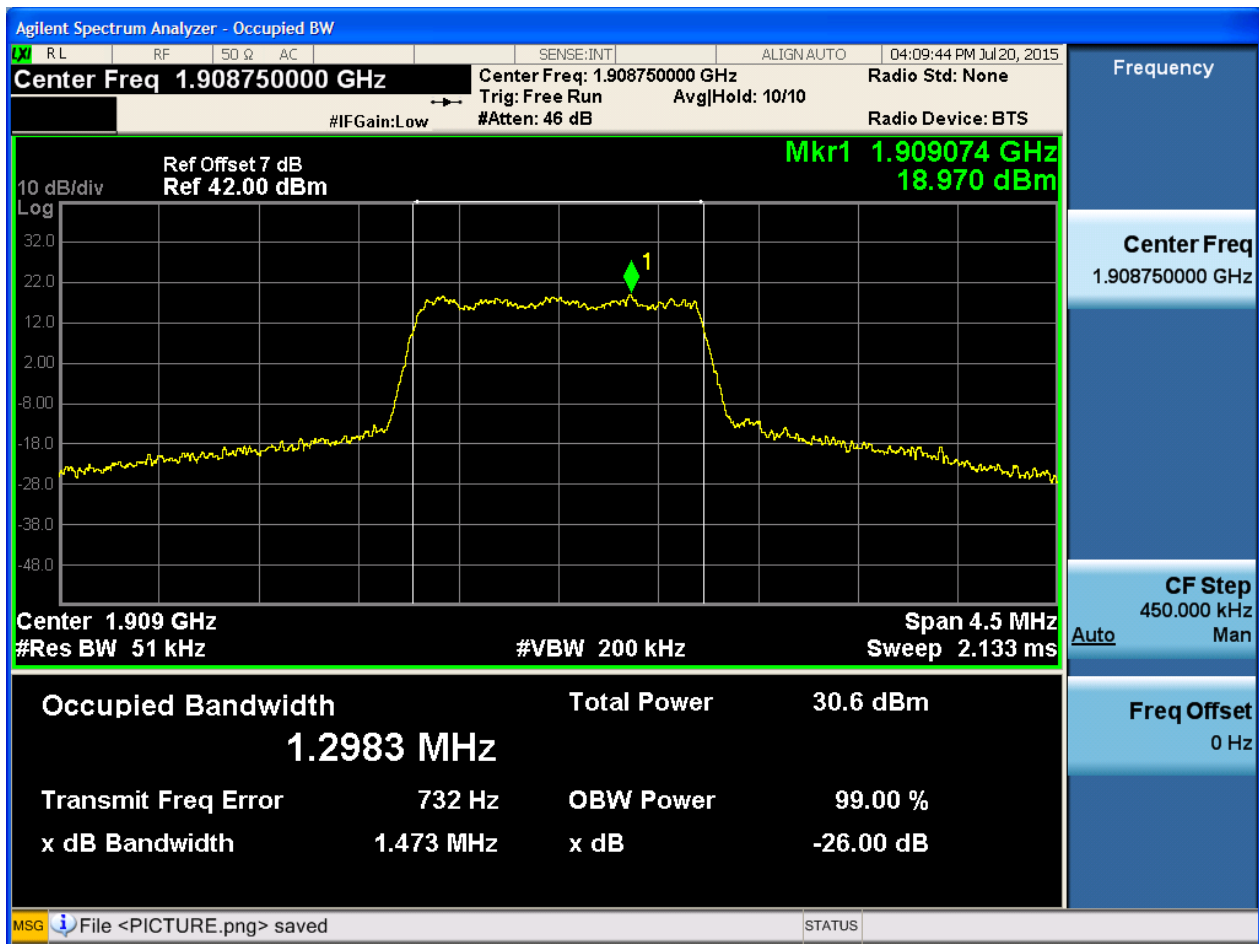


4.1.2.1.2 Test Channel = MCH





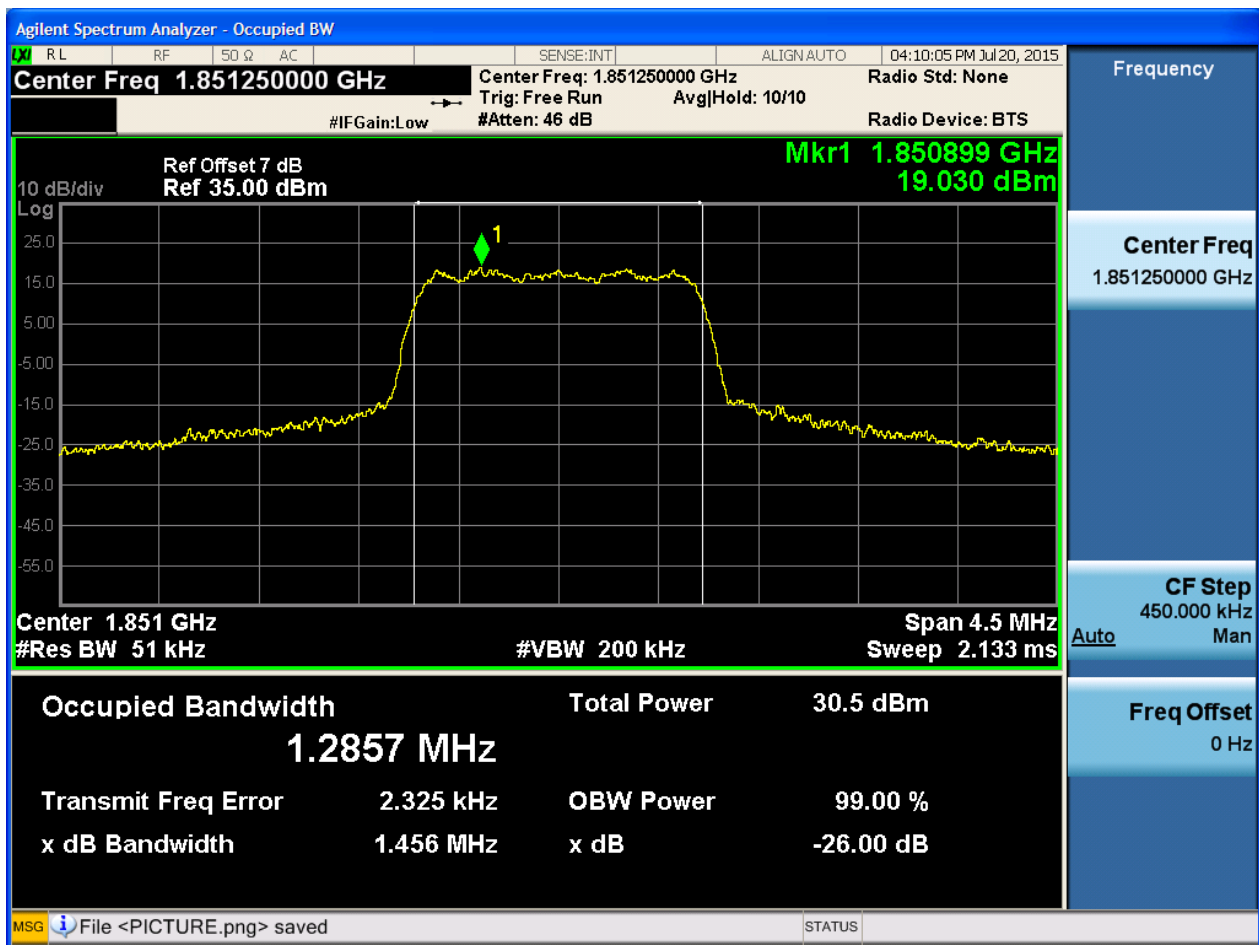
4.1.2.1.3 Test Channel = HCH





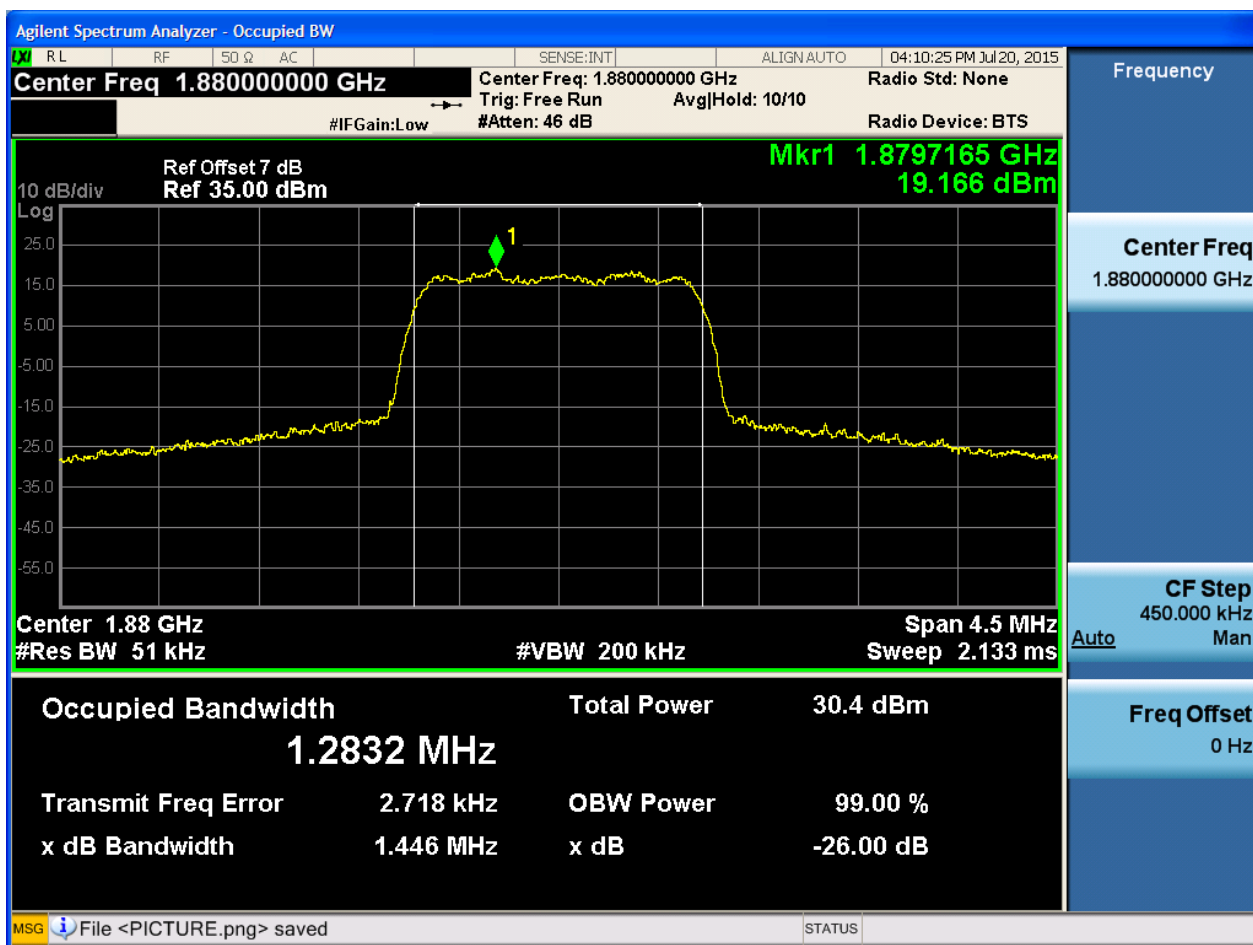
4.1.2.2 Test Mode = CDMA/1X/TM3

4.1.2.2.1 Test Channel = LCH



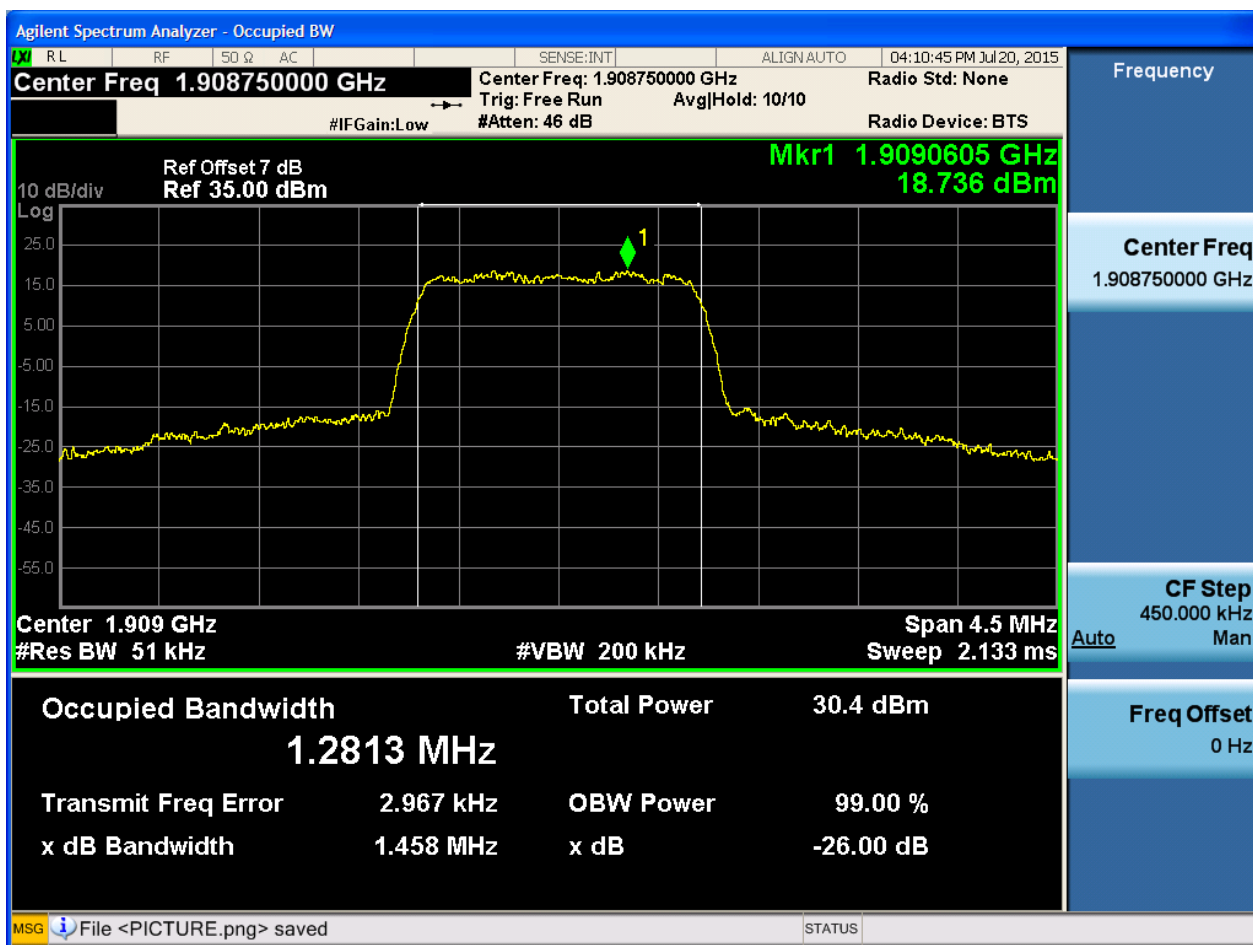


4.1.2.2.2 Test Channel = MCH





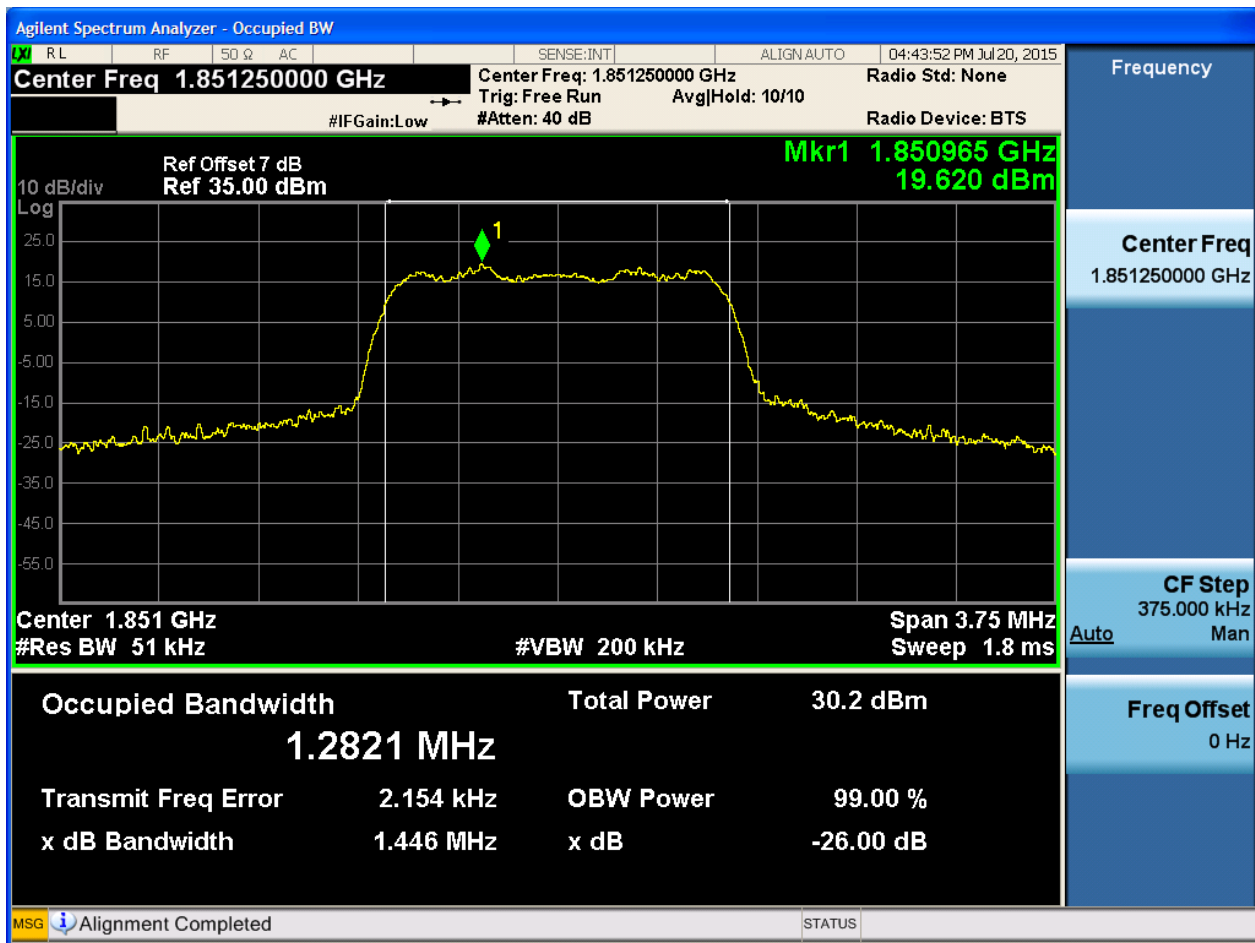
4.1.2.2.3 Test Channel = HCH



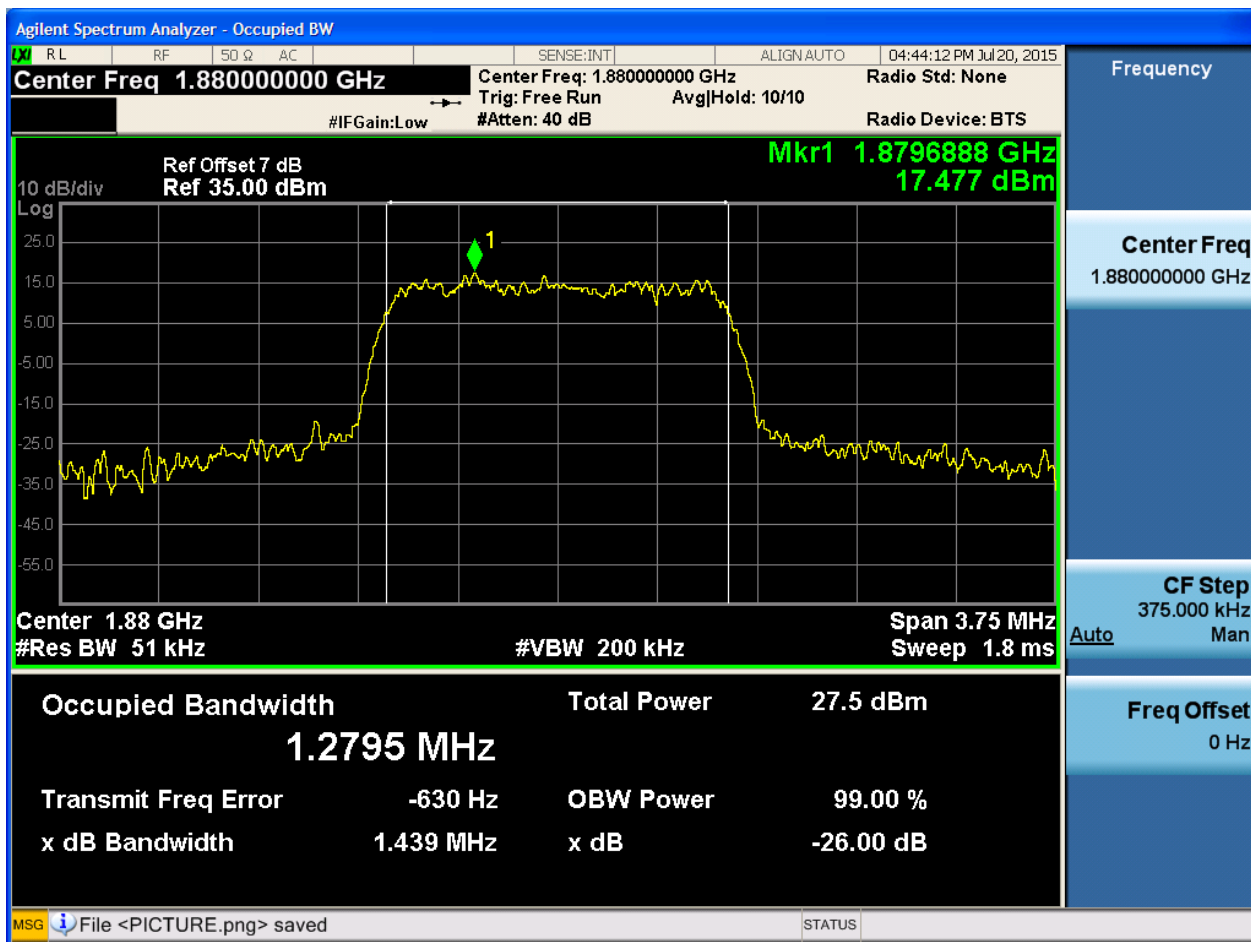


4.1.2.3 Test Mode = CDMA/EV-DO/Subtype0

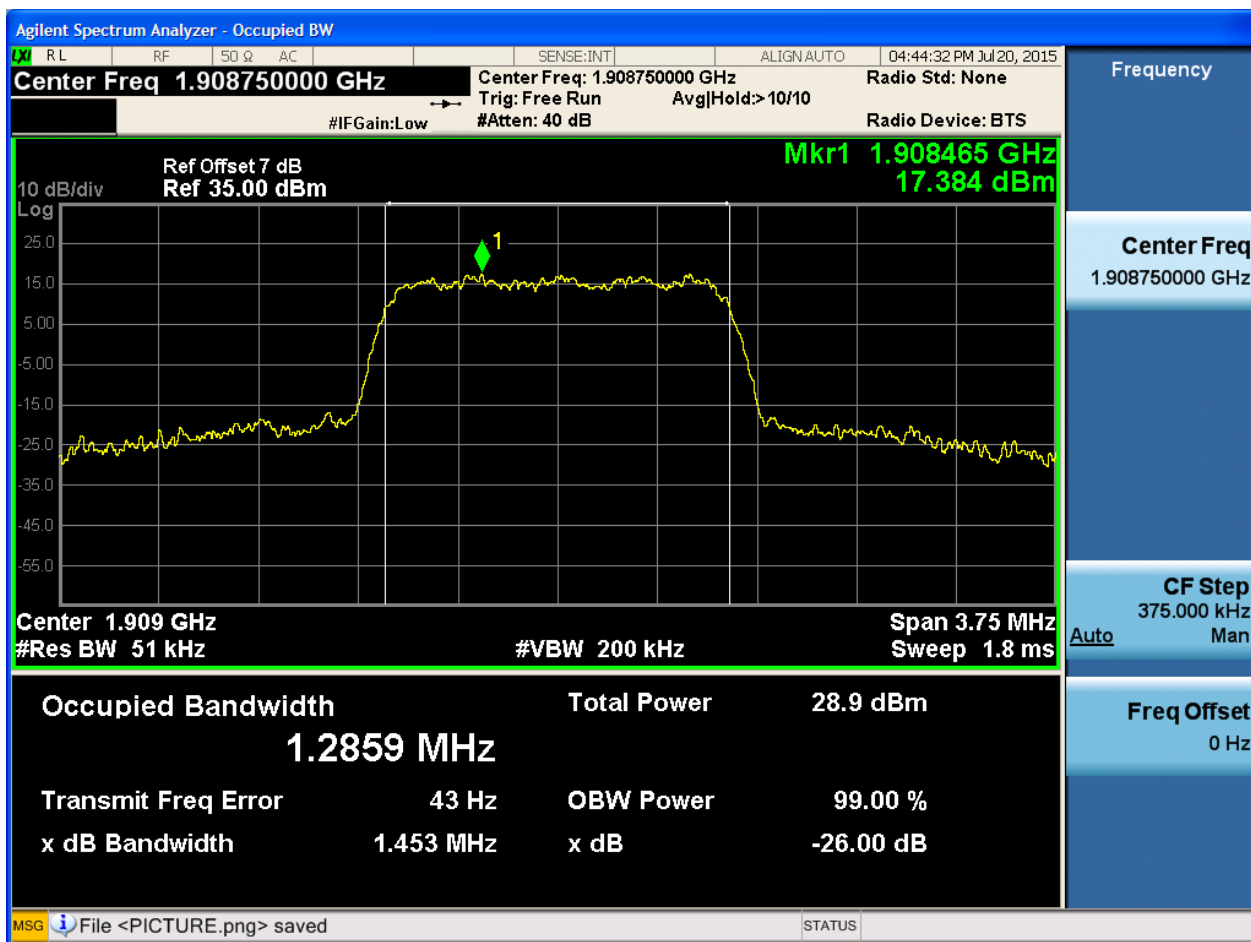
4.1.2.3.1 Test Channel = LCH



4.1.2.3.2 Test Channel = MCH

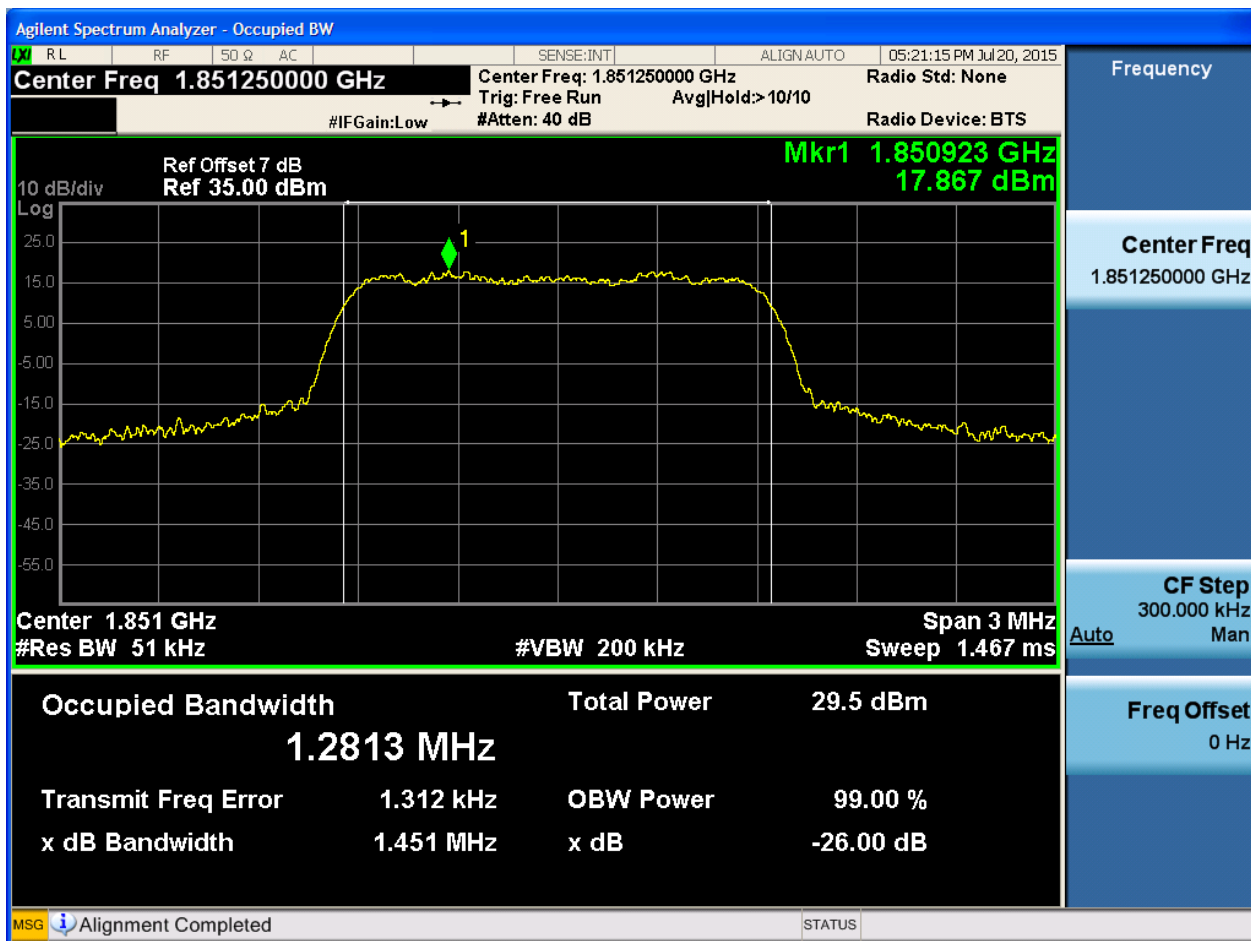


4.1.2.3.3 Test Channel = HCH

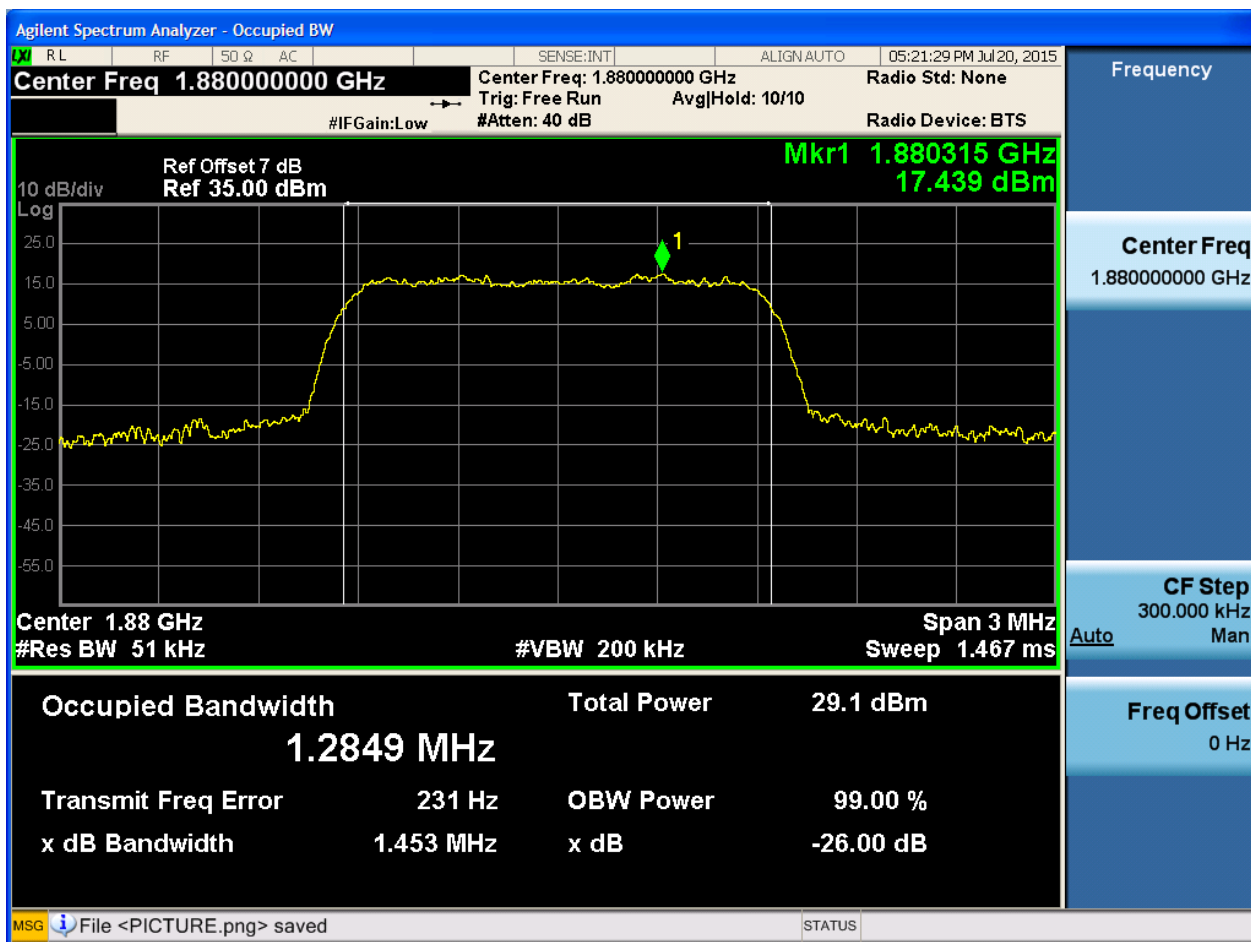


4.1.2.4 Test Mode = CDMA/EV-DO/Subtype2/256

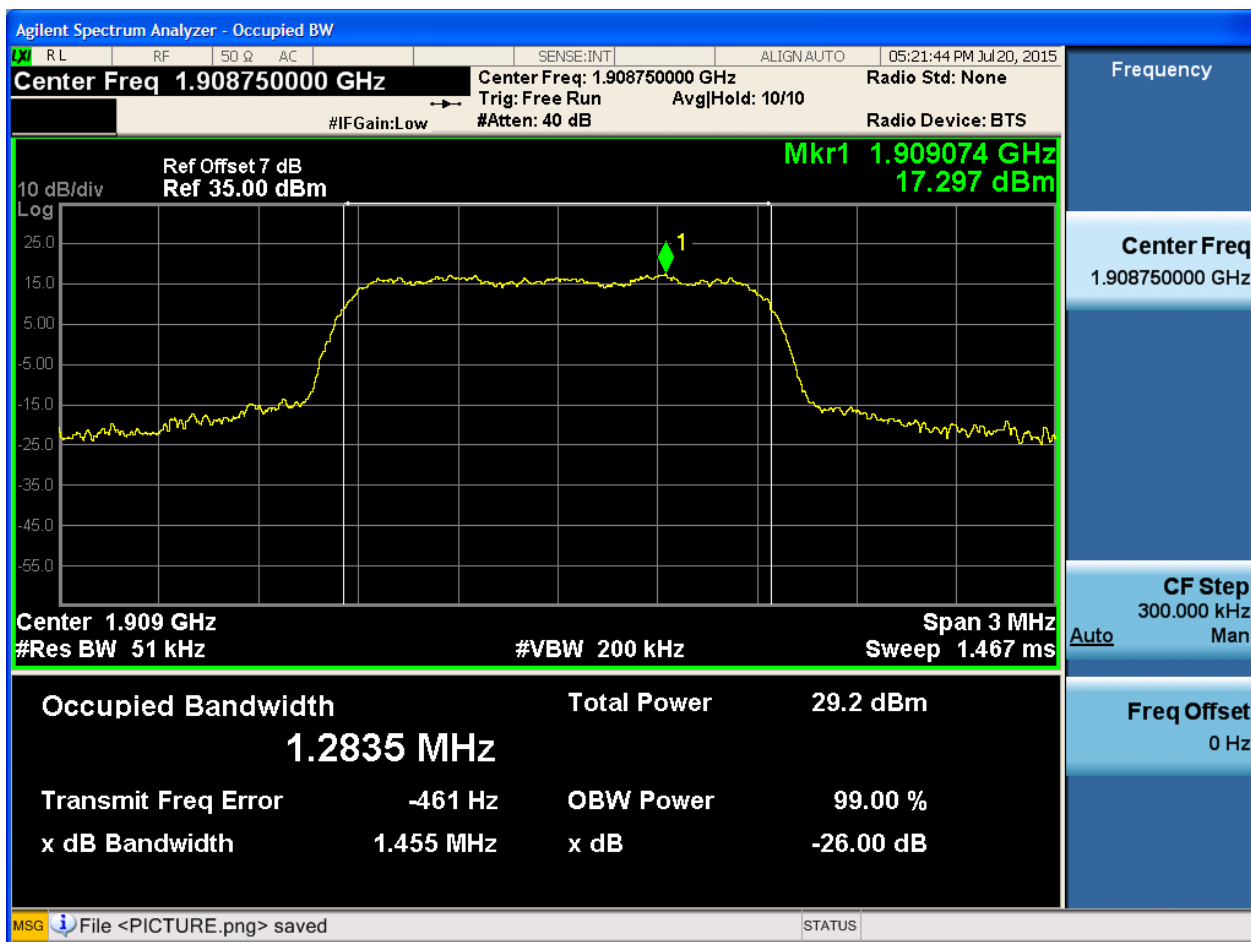
4.1.2.4.1 Test Channel = LCH



4.1.2.4.2 Test Channel = MCH

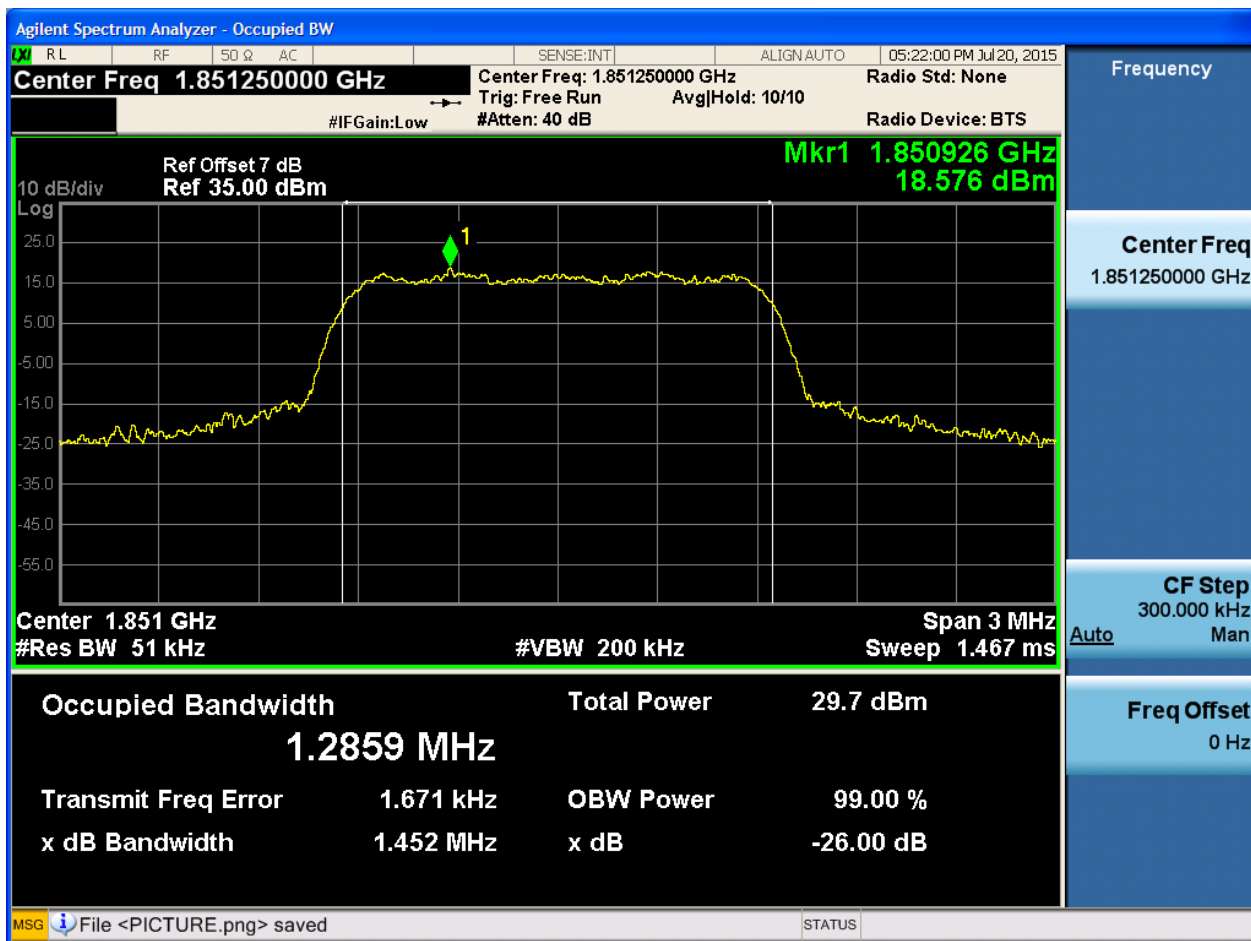


4.1.2.4.3 Test Channel = HCH

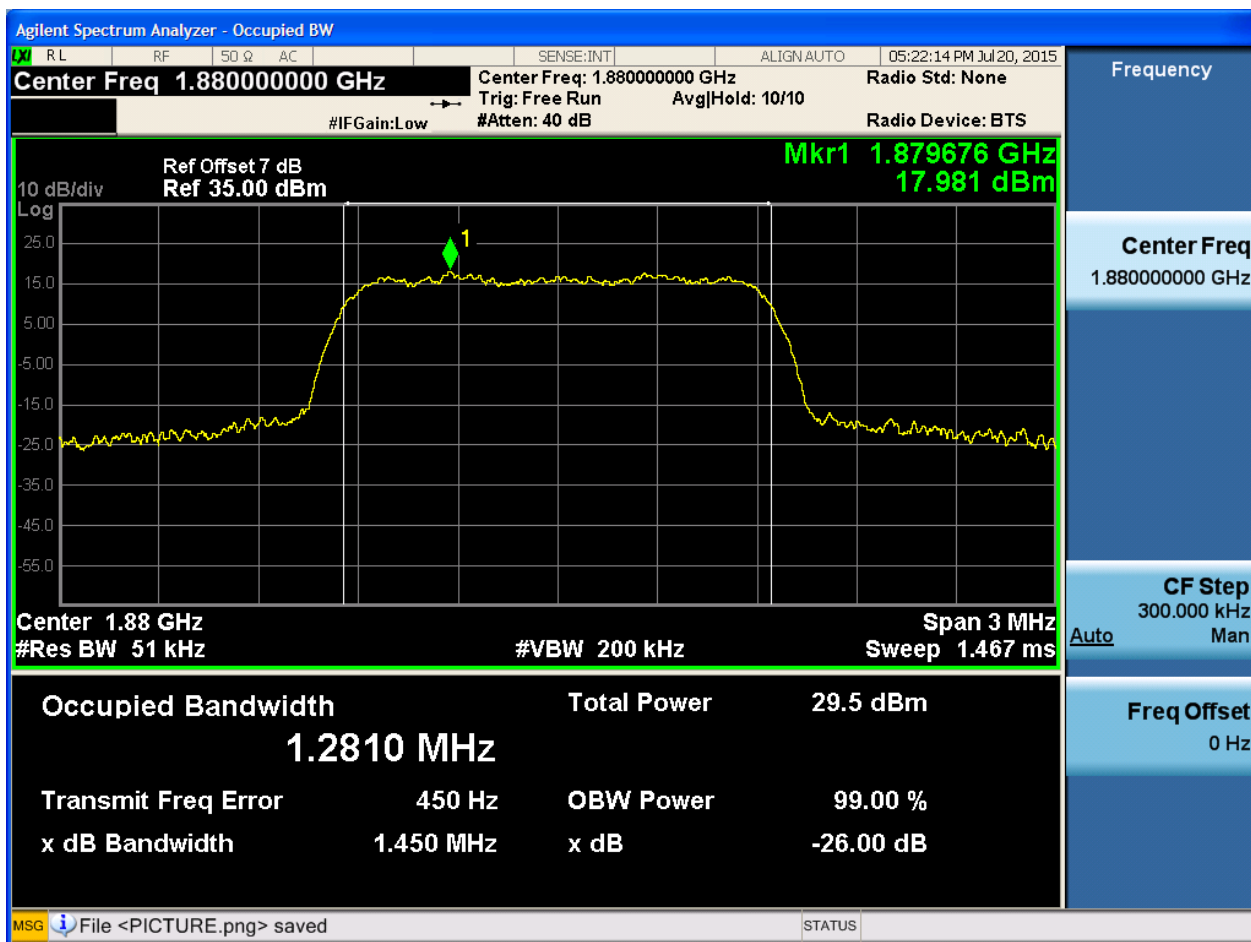


4.1.2.5 Test Mode = CDMA/EV-DO/Subtype2/24096

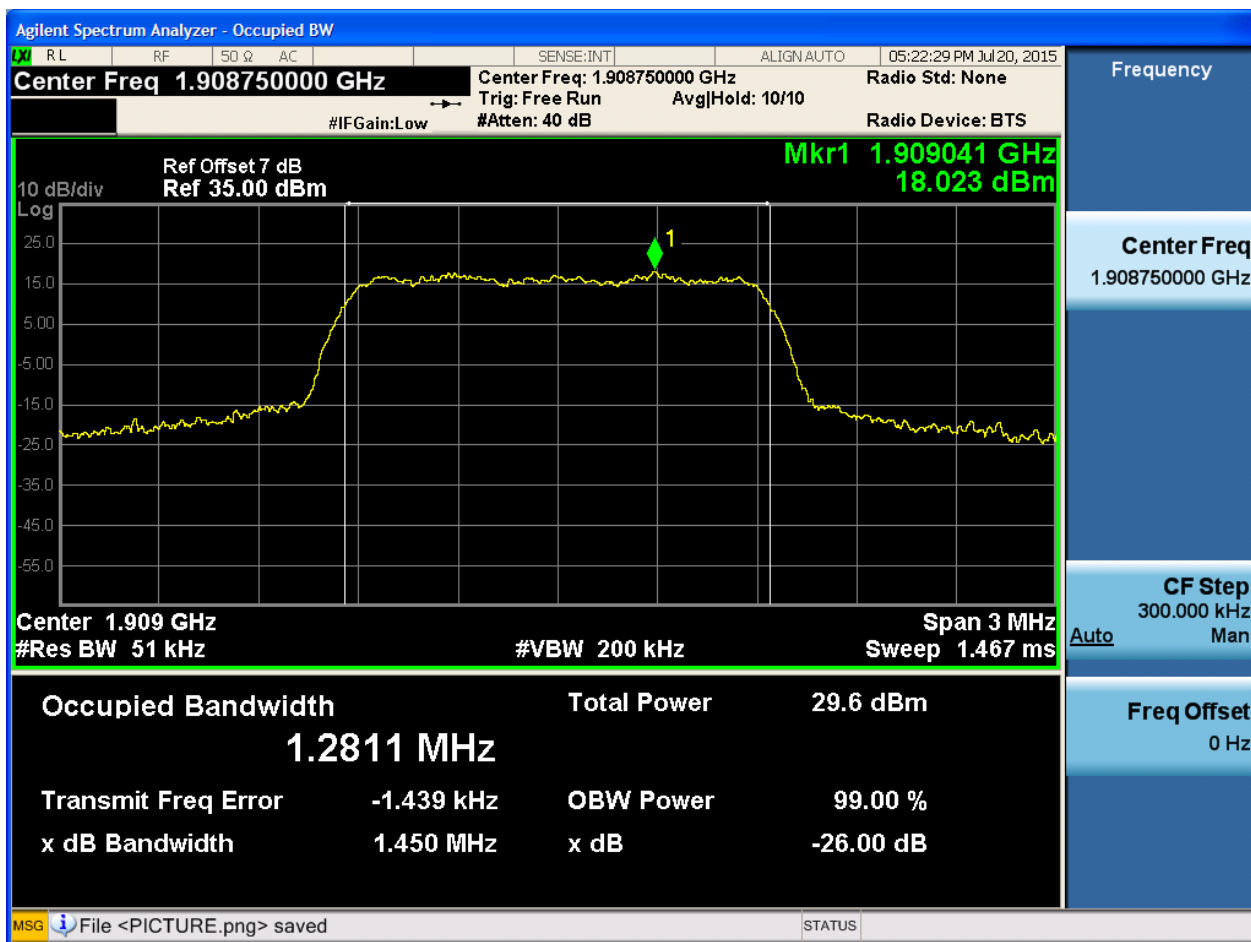
4.1.2.5.1 Test Channel = LCH



4.1.2.5.2 Test Channel = MCH

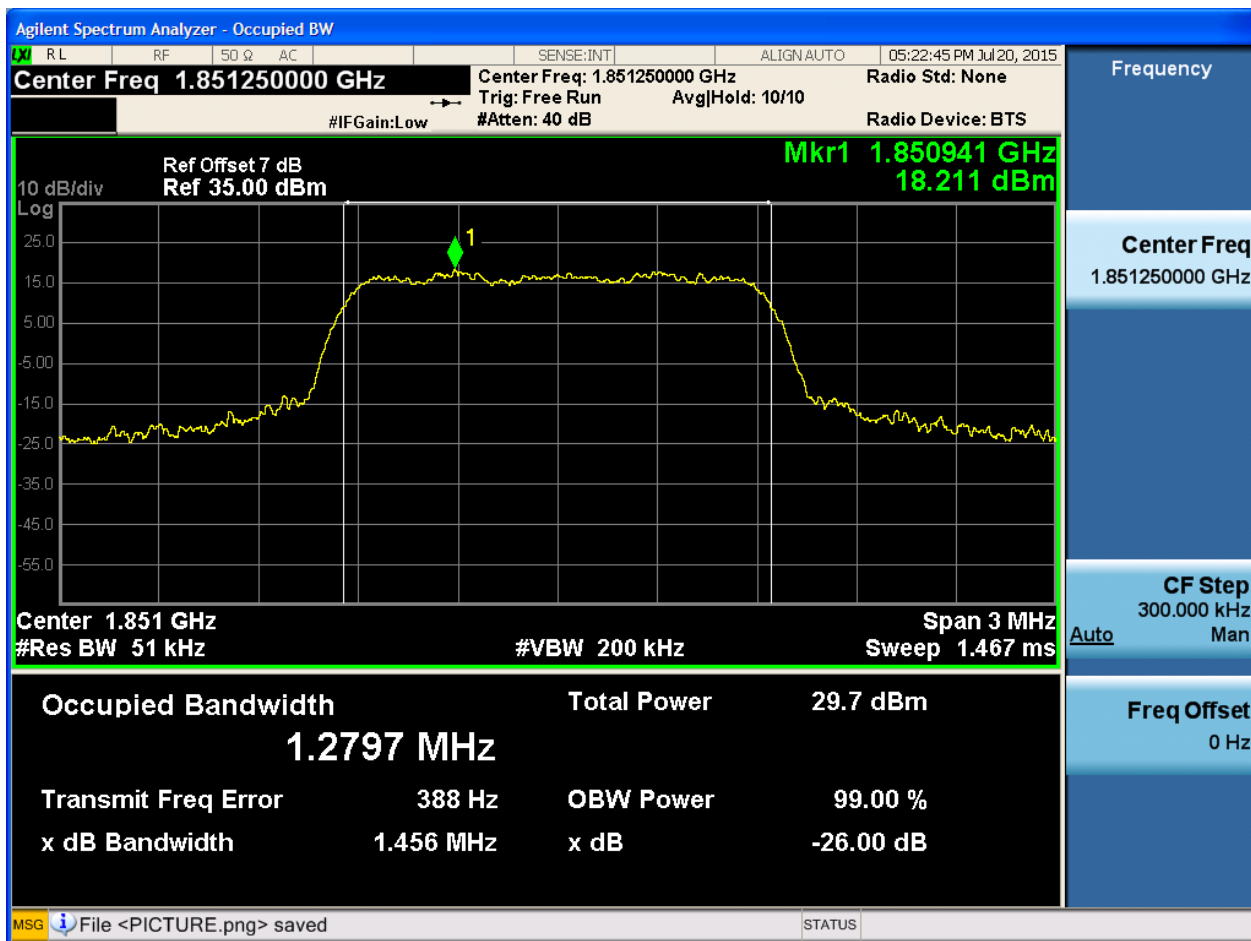


4.1.2.5.3 Test Channel = HCH

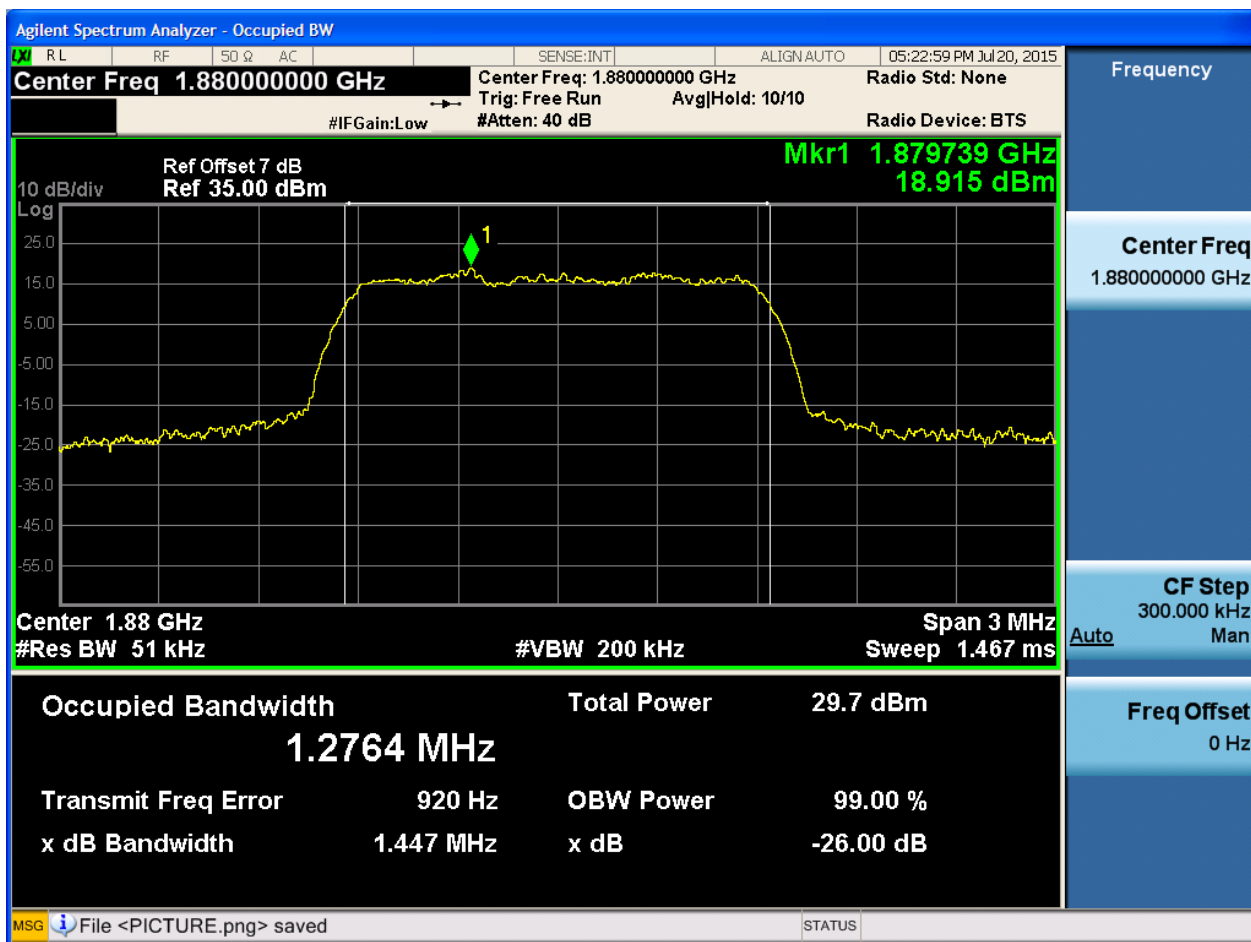


4.1.2.6 Test Mode = CDMA/EV-DO/Subtype2/12288

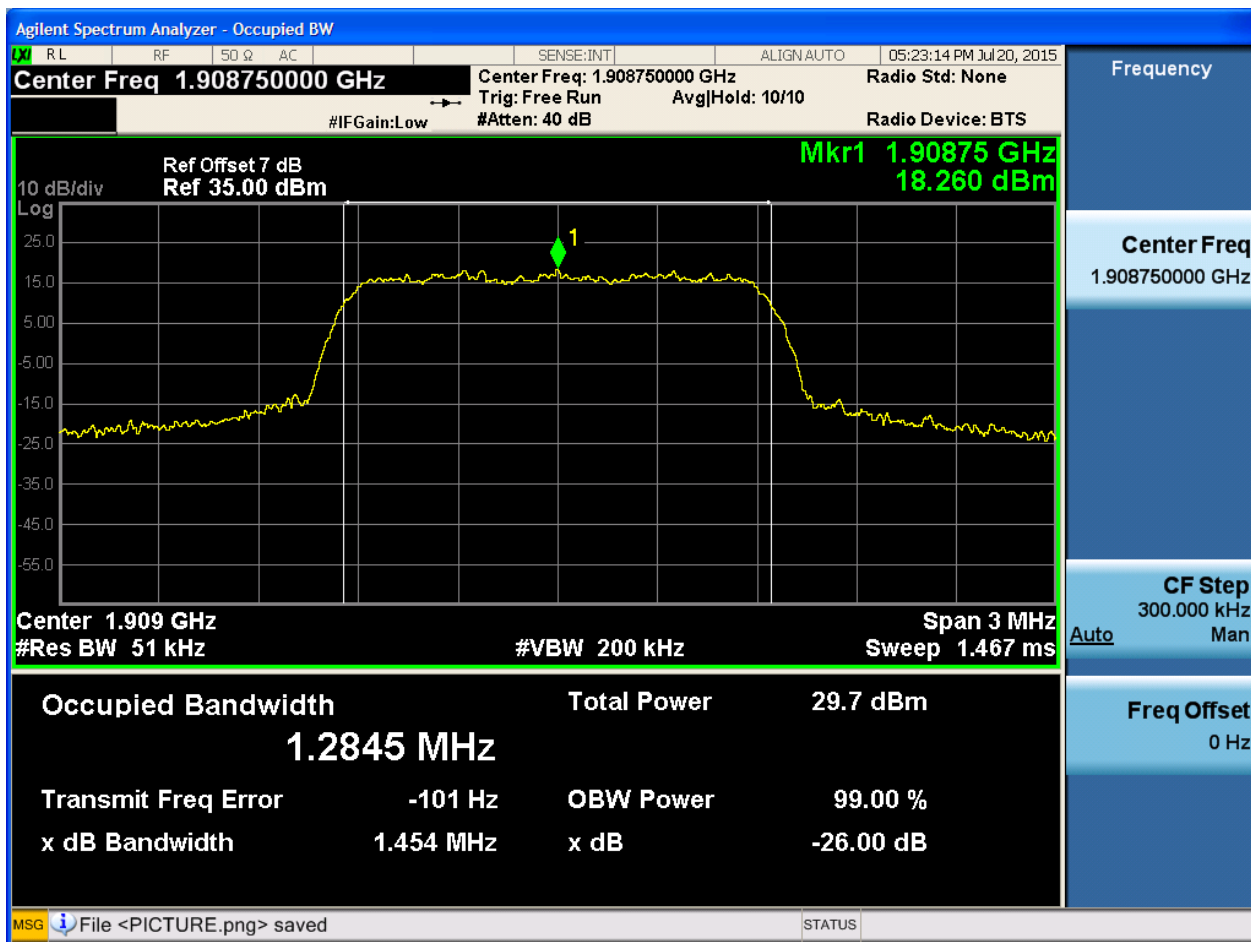
4.1.2.6.1 Test Channel = LCH



4.1.2.6.2 Test Channel = MCH



4.1.2.6.3 Test Channel = HCH



5Appendix_E: Band Edges Compliance

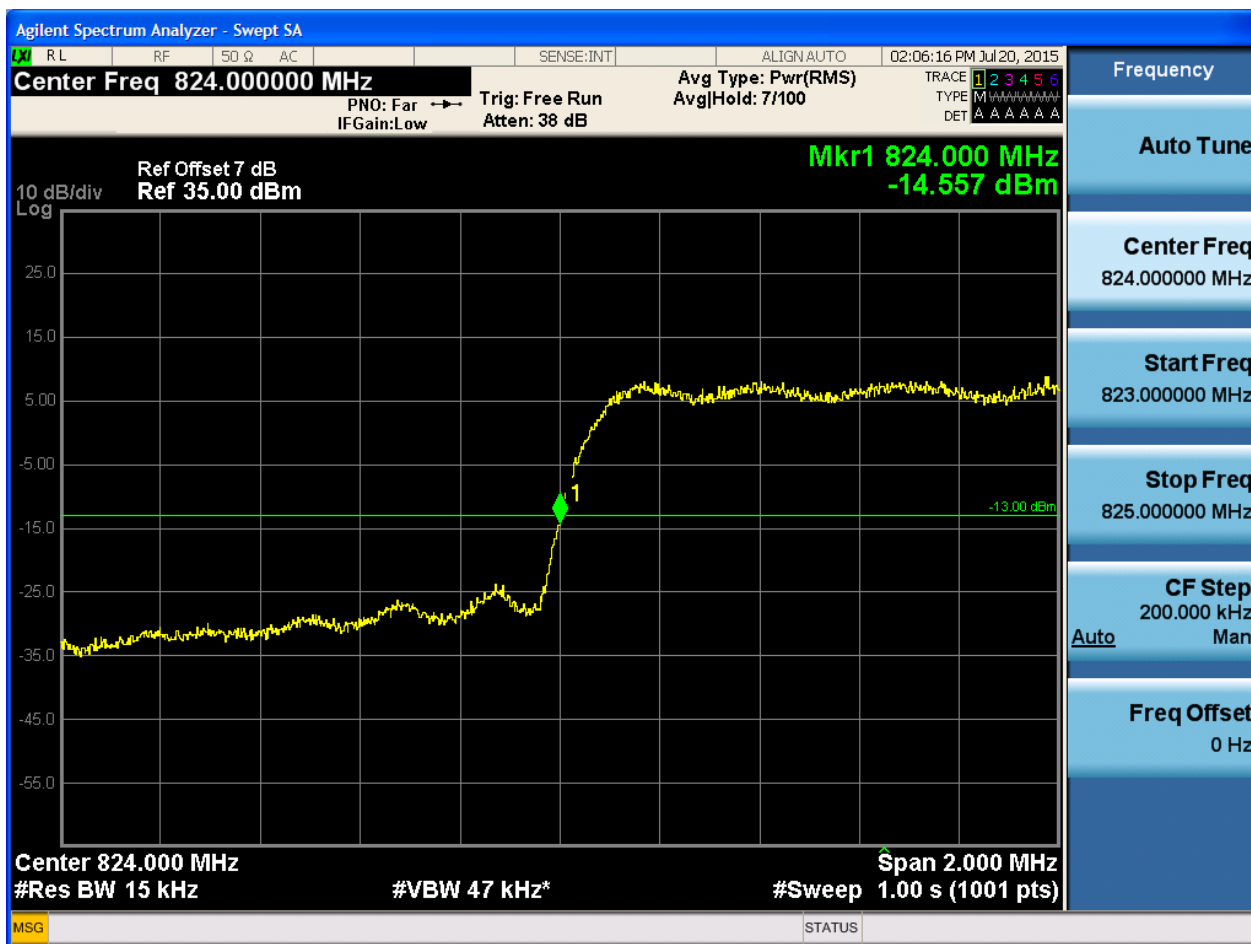
Part I - Test Plots

5.1 For CDMA

5.1.1 Test Band = BC0

5.1.1.1 Test Mode = CDMA/1X/TM1

5.1.1.1.1 Test Channel = LCH

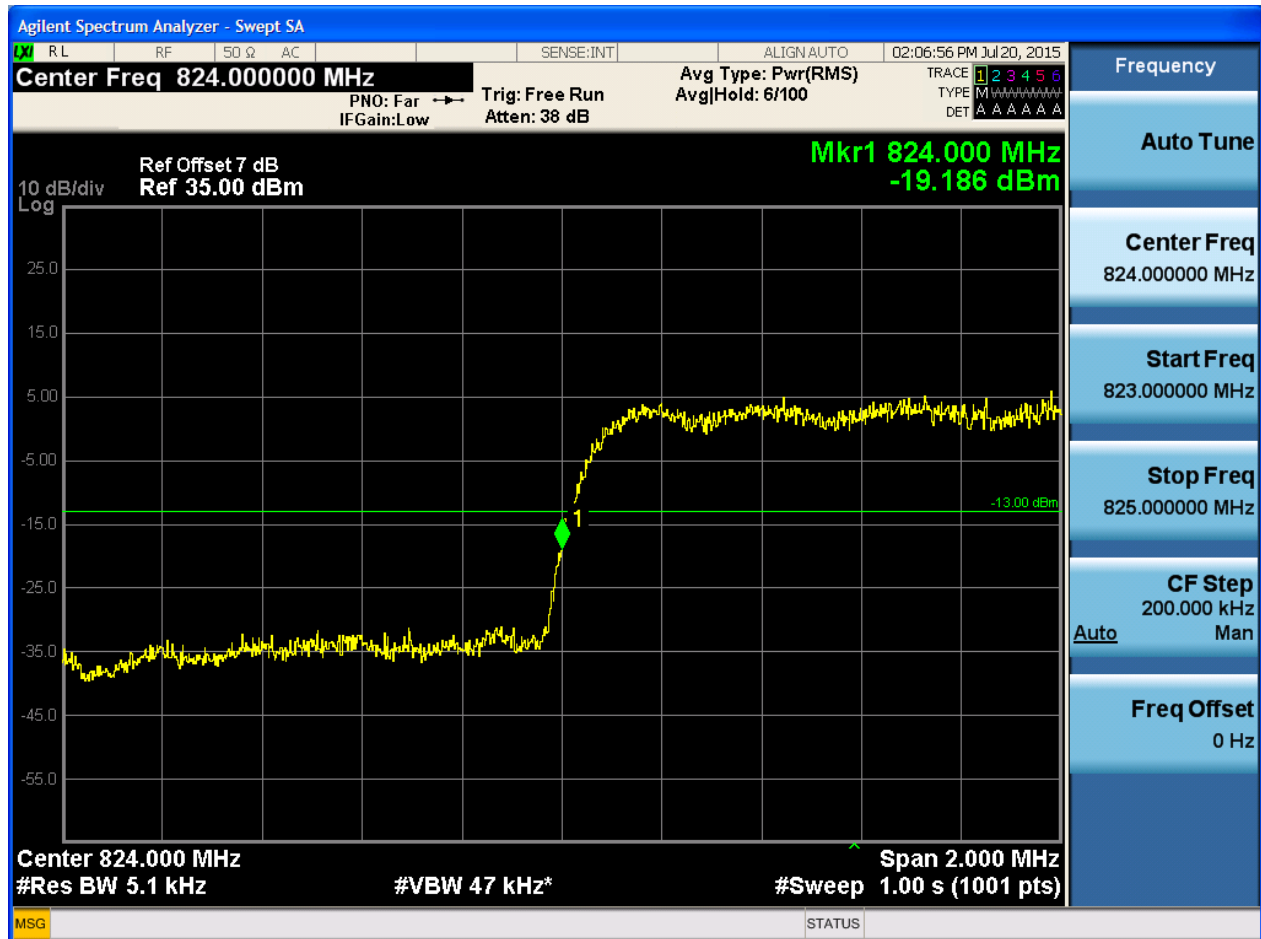


5.1.1.1.2 Test Channel = HCH



5.1.1.2 Test Mode = CDMA/1X/TM3

5.1.1.2.1 Test Channel = LCH

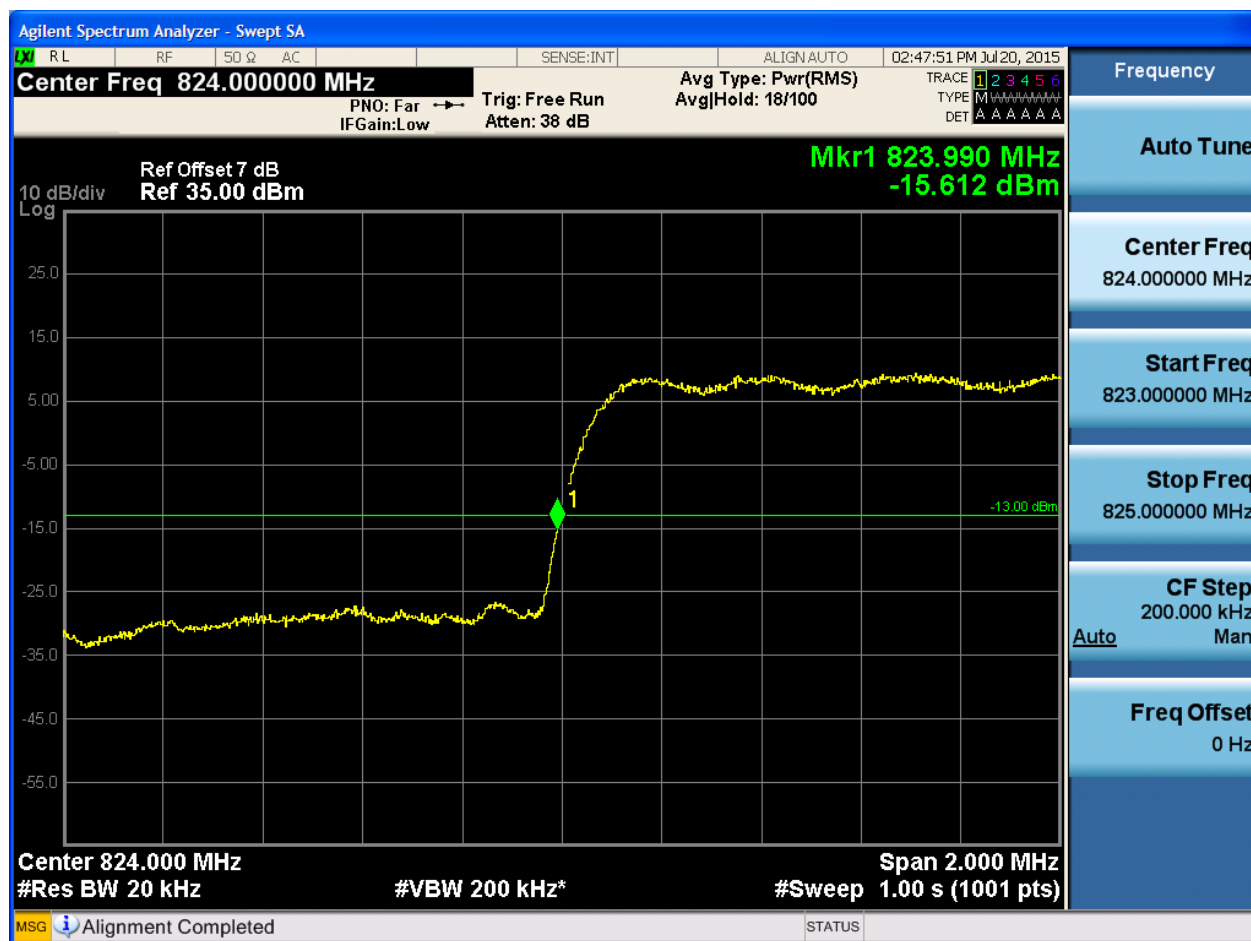


5.1.1.2.2 Test Channel = HCH



5.1.1.3 Test Mode = CDMA/EV-DO/Subtype0

5.1.1.3.1 Test Channel = LCH



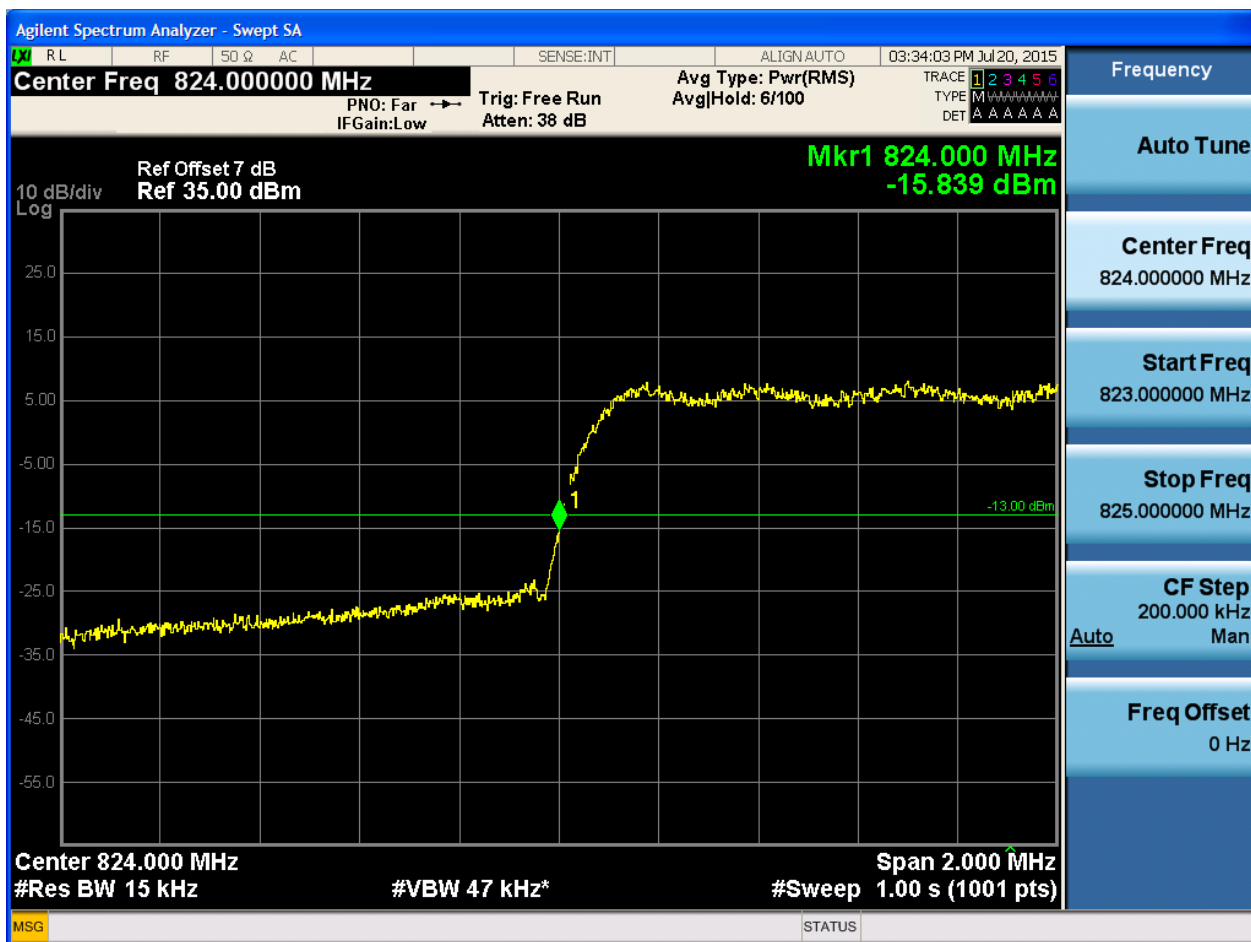


5.1.1.3.2 Test Channel = HCH



5.1.1.4 Test Mode = CDMA/EV-DO/Subtype2/256

5.1.1.4.1 Test Channel = LCH



5.1.1.4.2 Test Channel = HCH



5.1.1.5 Test Mode = CDMA/EV-DO/Subtype2/4096

5.1.1.5.1 Test Channel = LCH

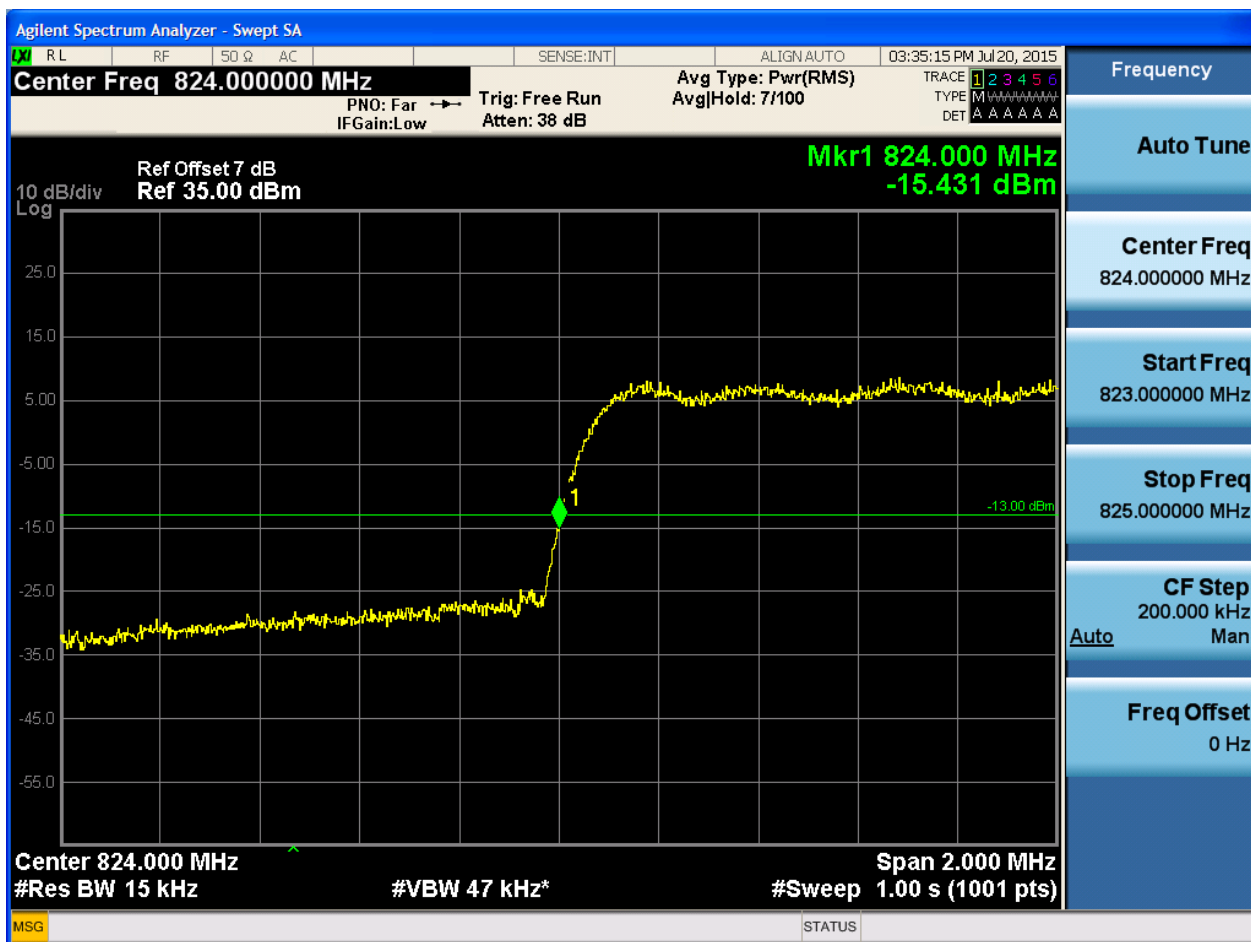


5.1.1.5.2 Test Channel = HCH



5.1.1.6 Test Mode = CDMA/EV-DO/Subtype2/12288

5.1.1.6.1 Test Channel = LCH



5.1.1.6.1 Test Channel = HCH

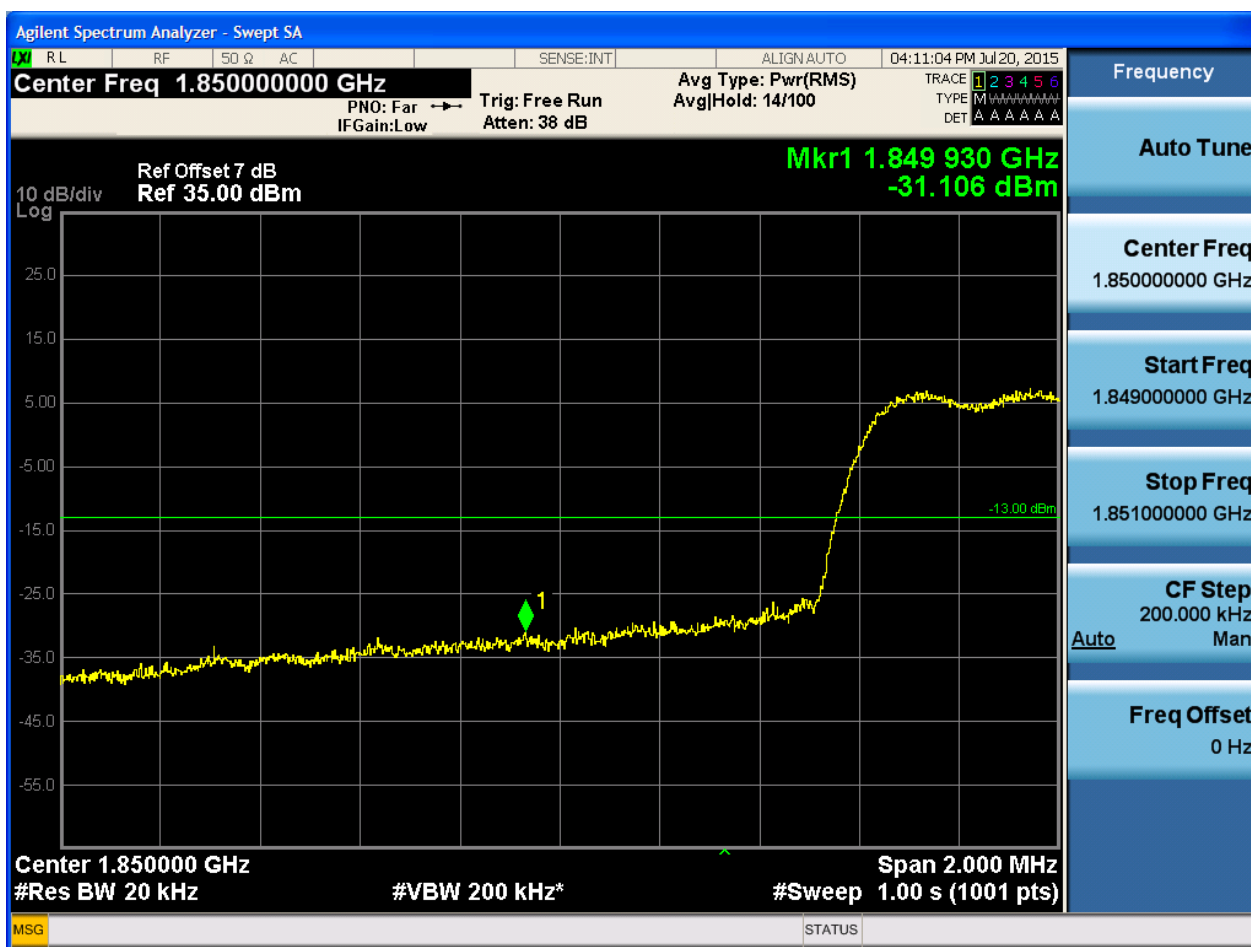




5.1.2 Test Band = BC1

5.1.2.1 Test Mode = CDMA/1X/TM1

5.1.2.1.1 Test Channel = LCH



5.1.2.1.2 Test Channel = HCH



5.1.2.2 Test Mode = CDMA/1X/TM3

5.1.2.2.1 Test Channel = LCH



5.1.2.2.2 Test Channel = HCH



5.1.2.3 Test Mode = CDMA/EV-DO/Subtype0

5.1.2.3.1 Test Channel = LCH





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.91000000 GHz

Ref Offset 7 dB
Ref 35.00 dBm

10 dB/div
Log

Mkr1 1.910 012 GHz
-31.769 dBm

Center 1.910000 GHz
#Res BW 20 kHz
#VBW 200 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.91000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

Center Freq 1.91000000 GHz

Ref Offset 7 dB
Ref 35.00 dBm

10 dB/div
Log

Mkr1 1.910 012 GHz
-31.769 dBm

Center 1.910000 GHz
#Res BW 20 kHz
#VBW 200 kHz*

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
1.91000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

5.1.2.4 Test Mode = CDMA/EV-DO/Subtype2/256

5.1.2.4.1 Test Channel = LCH

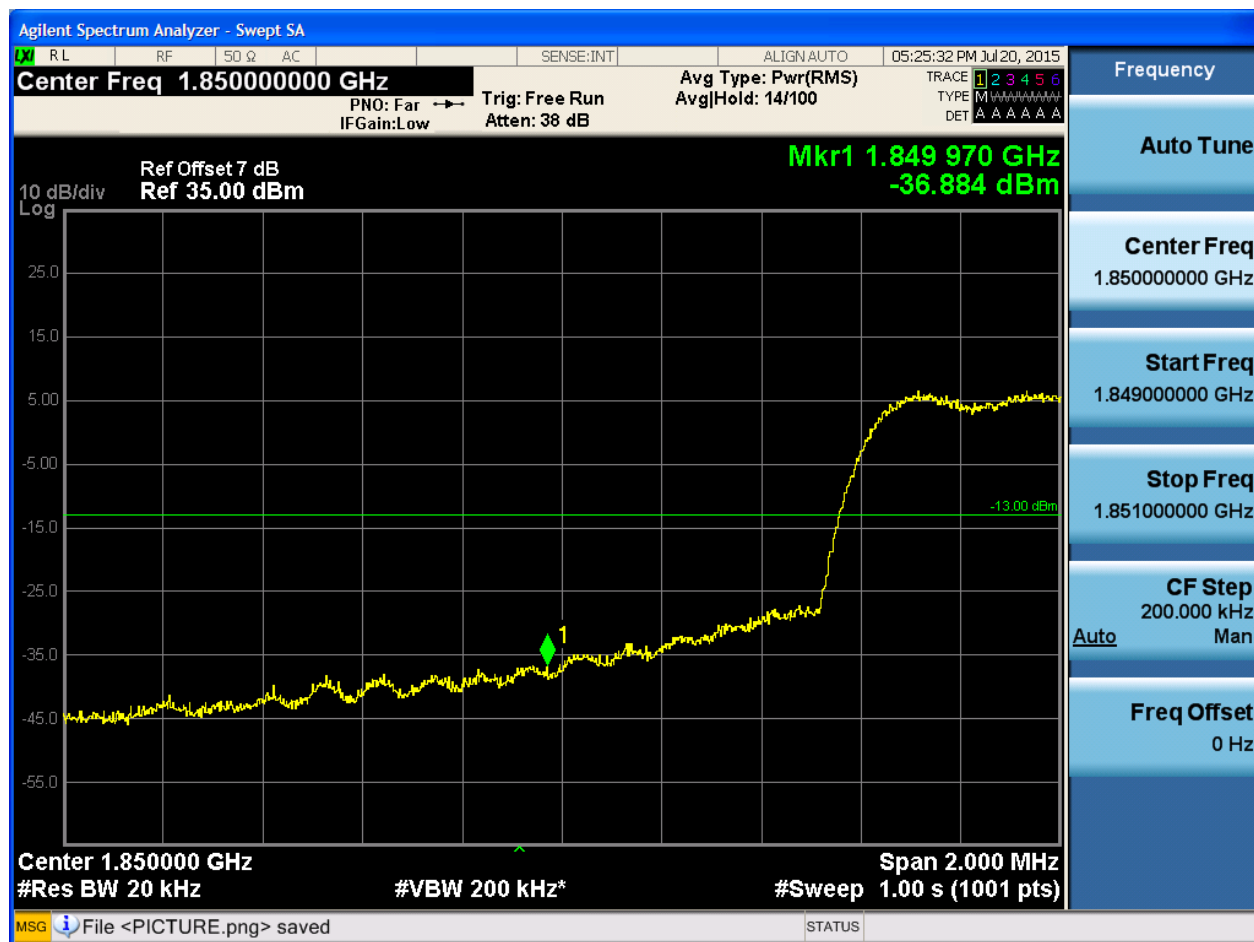


5.1.2.4.2 Test Channel = HCH



5.1.2.5 Test Mode = CDMA/EV-DO/Subtype2/4096

5.1.2.5.1 Test Channel = LCH



5.1.2.5.2 Test Channel = HCH





5.1.2.6.2 Test Channel = HCH



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.

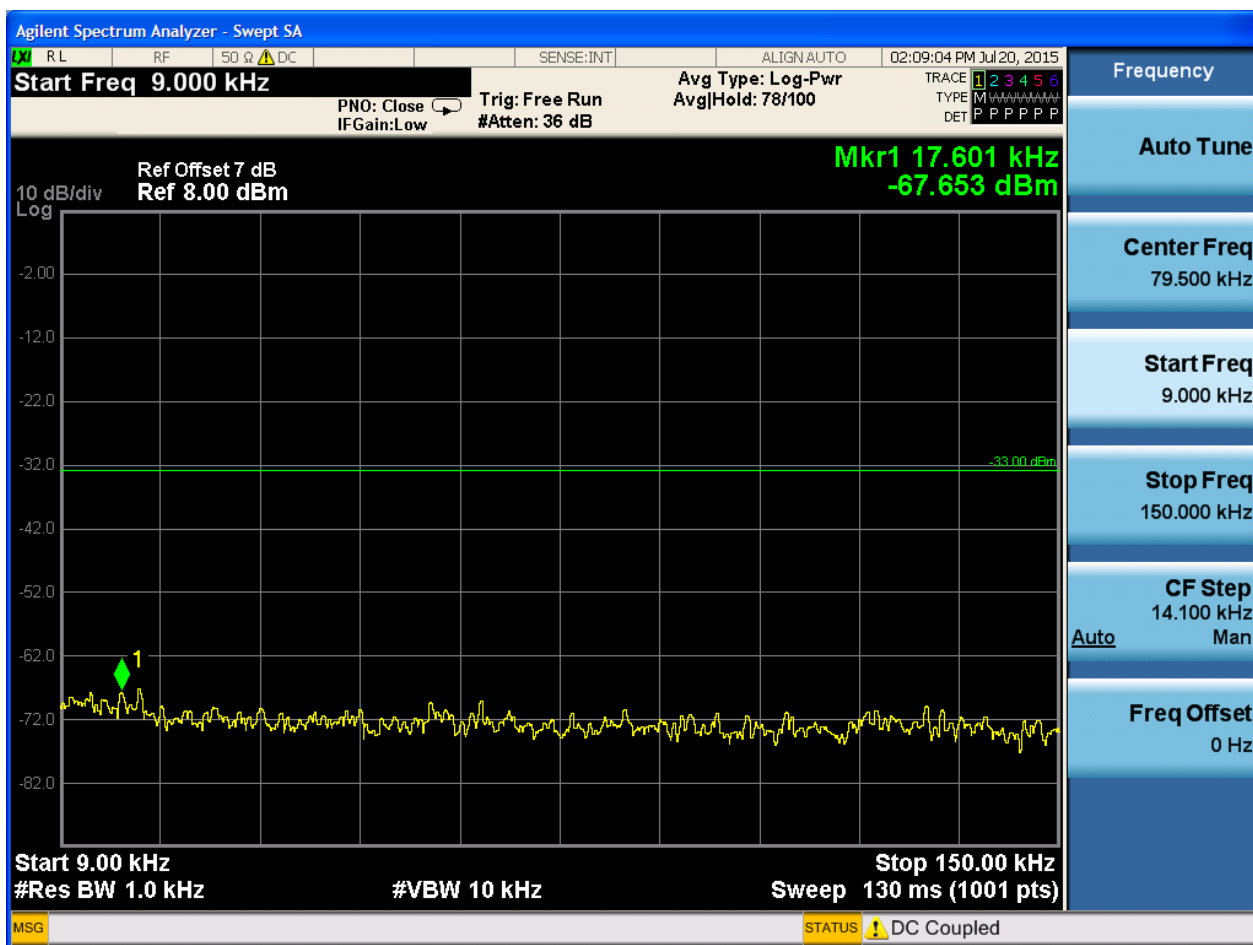
Part I - Test Plots

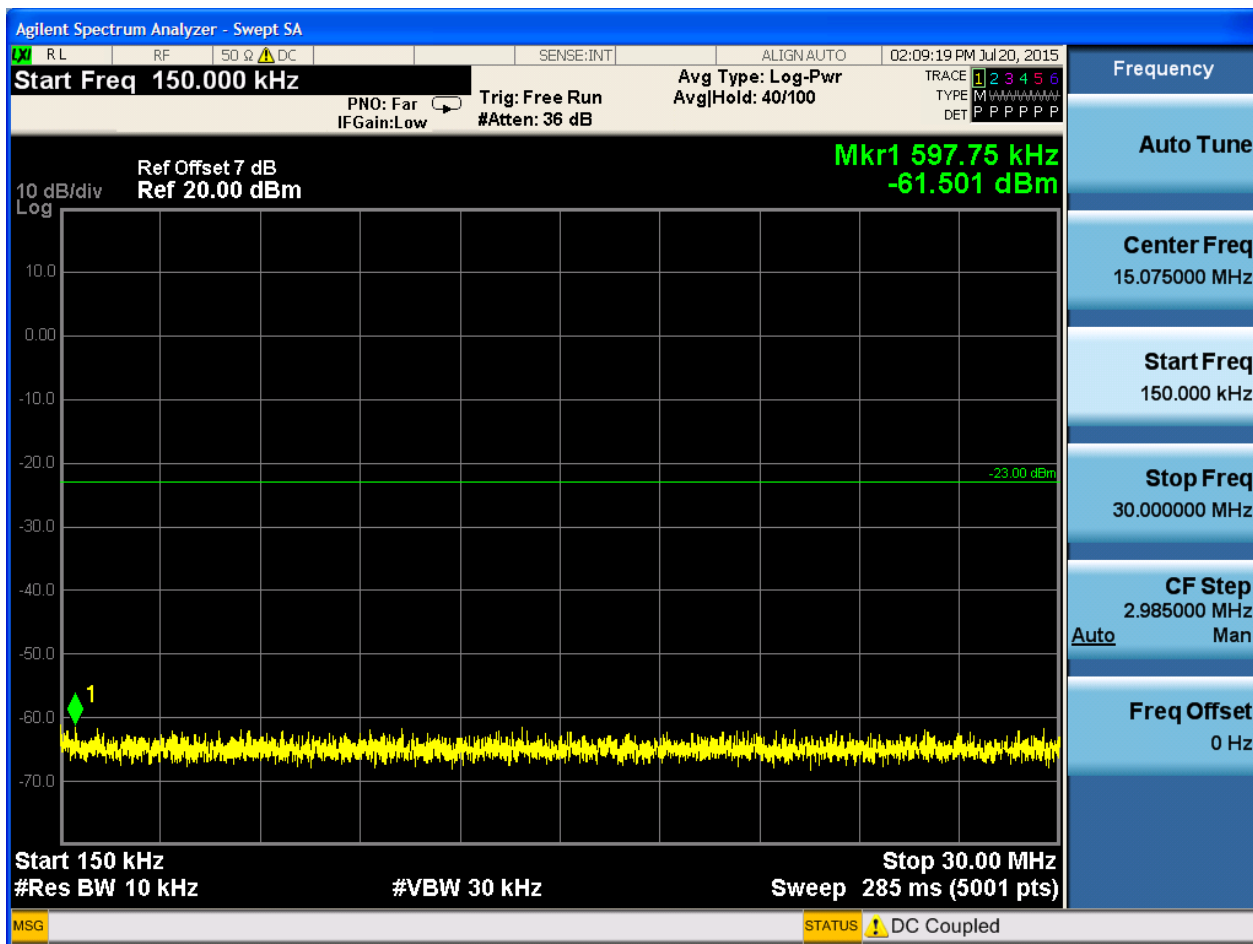
6.1 For CDMA/1X

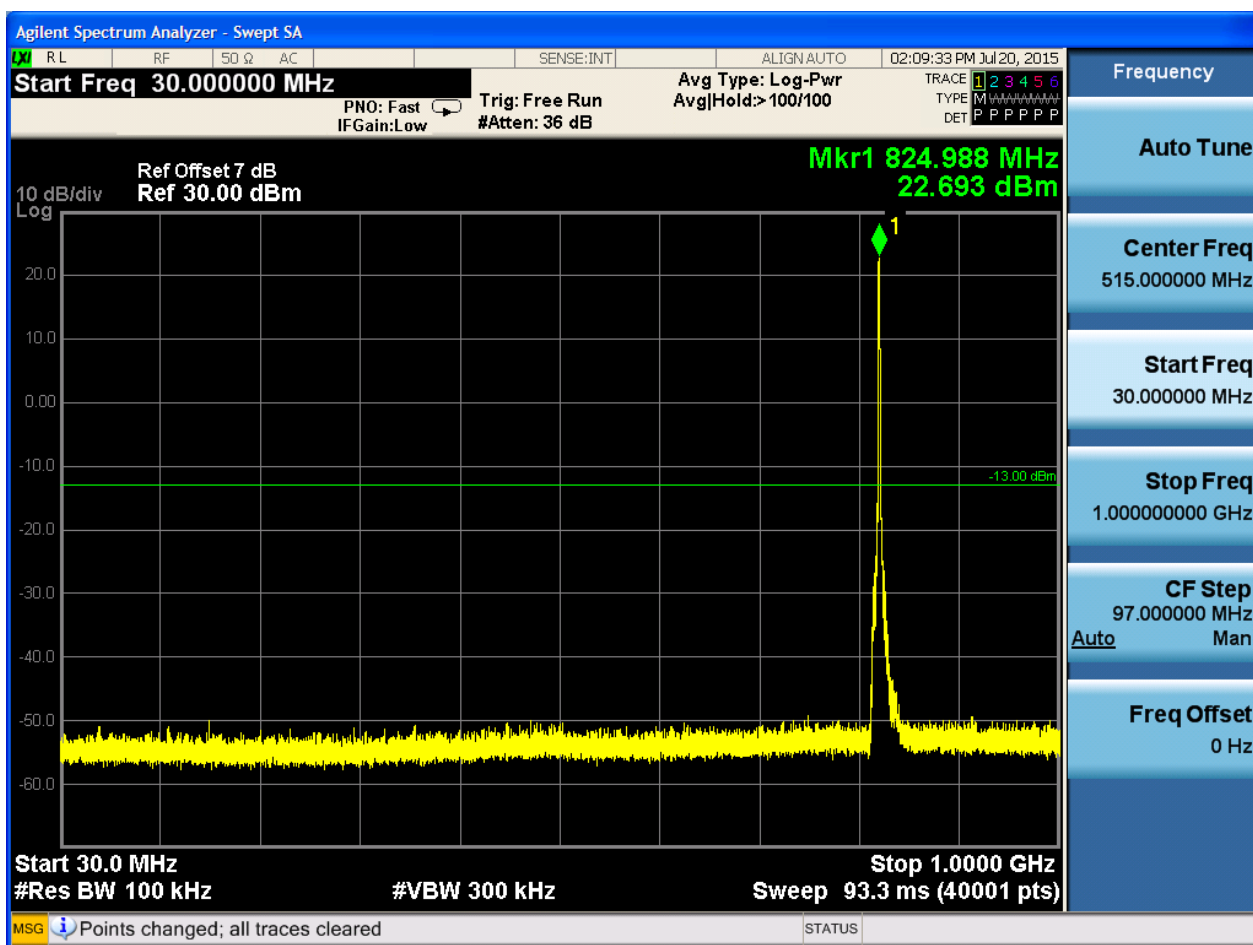
6.1.1 Test Band = BC0

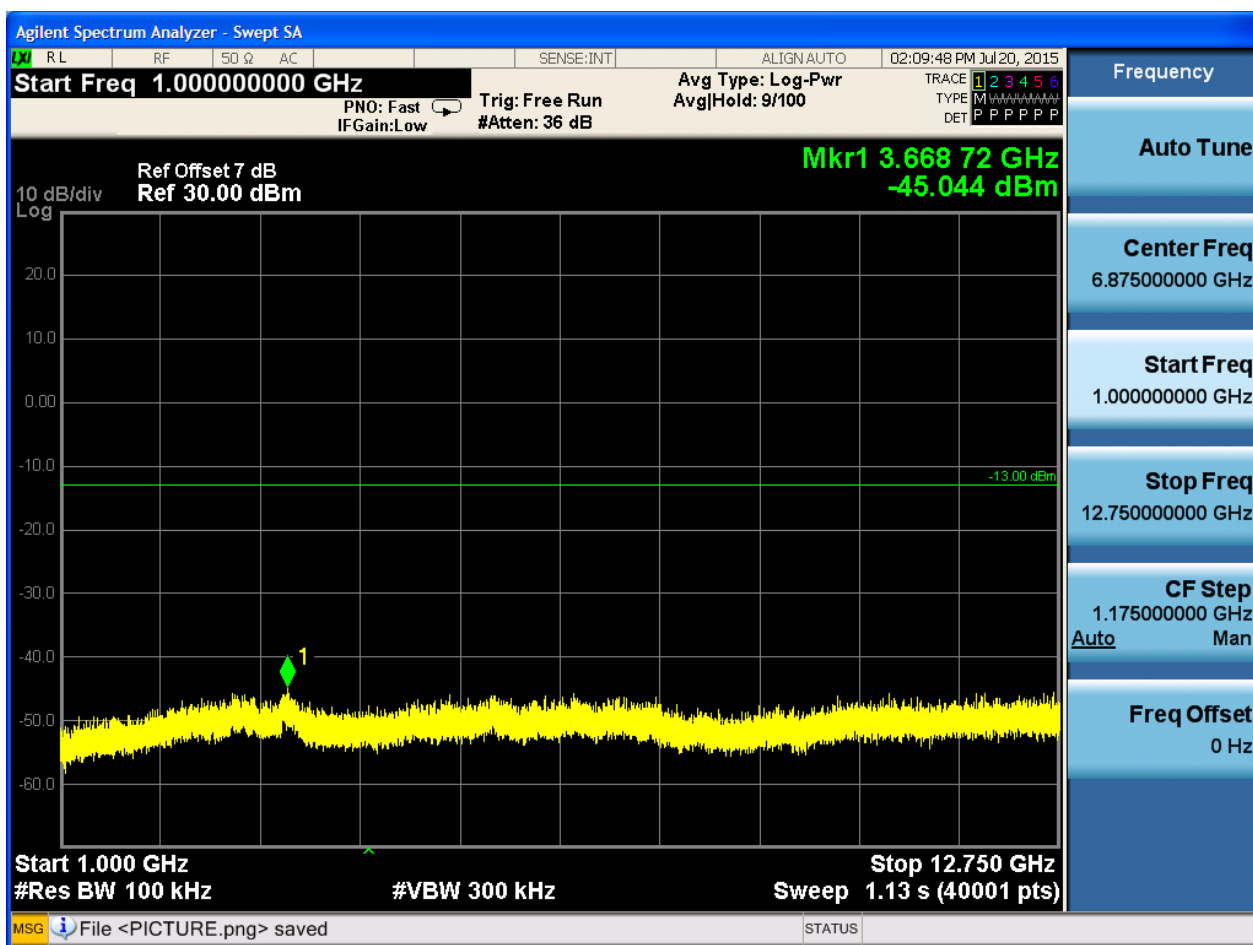
6.1.1.1 Test Mode = CDMA/1X/TM1

6.1.1.1.1 Test Channel = LCH

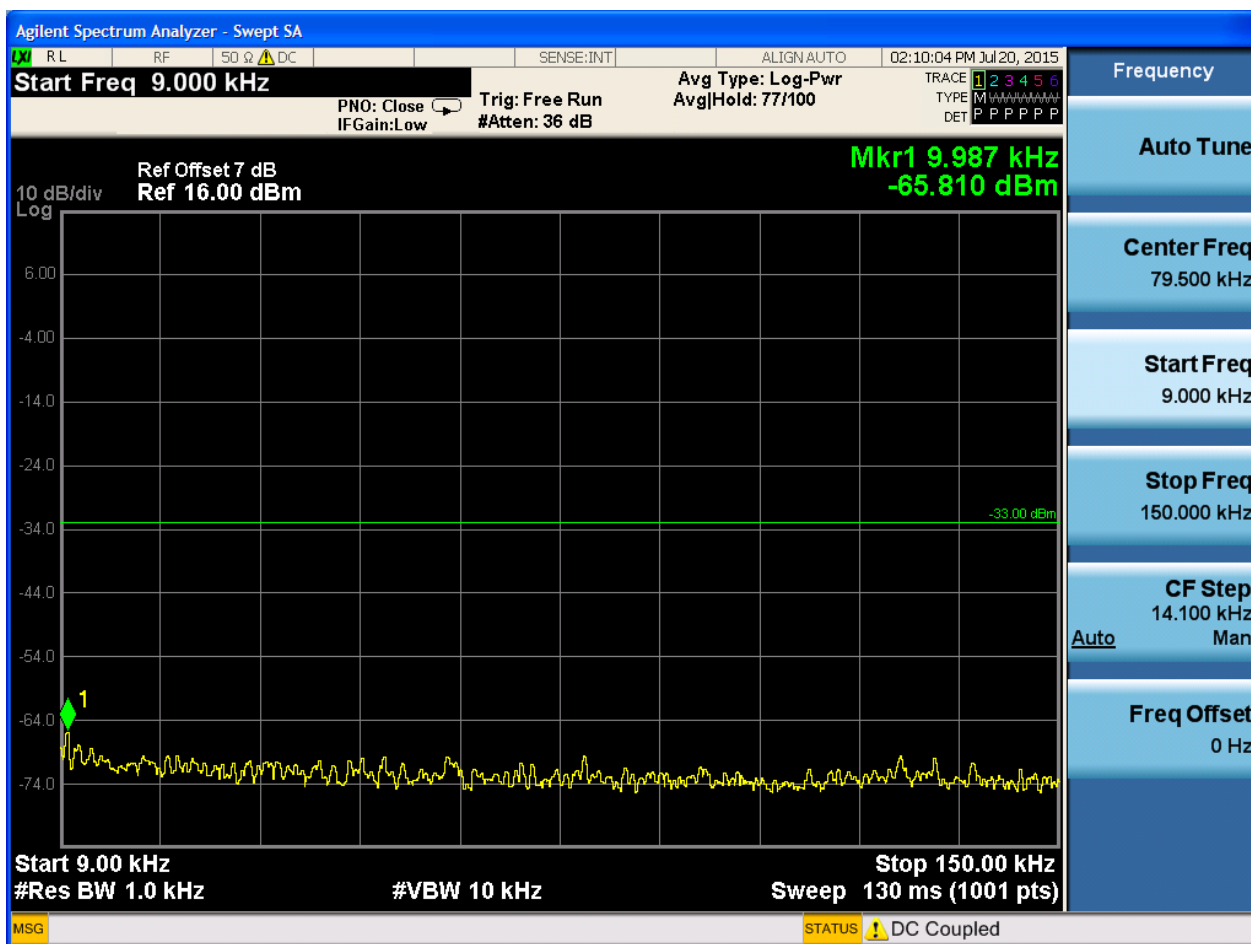


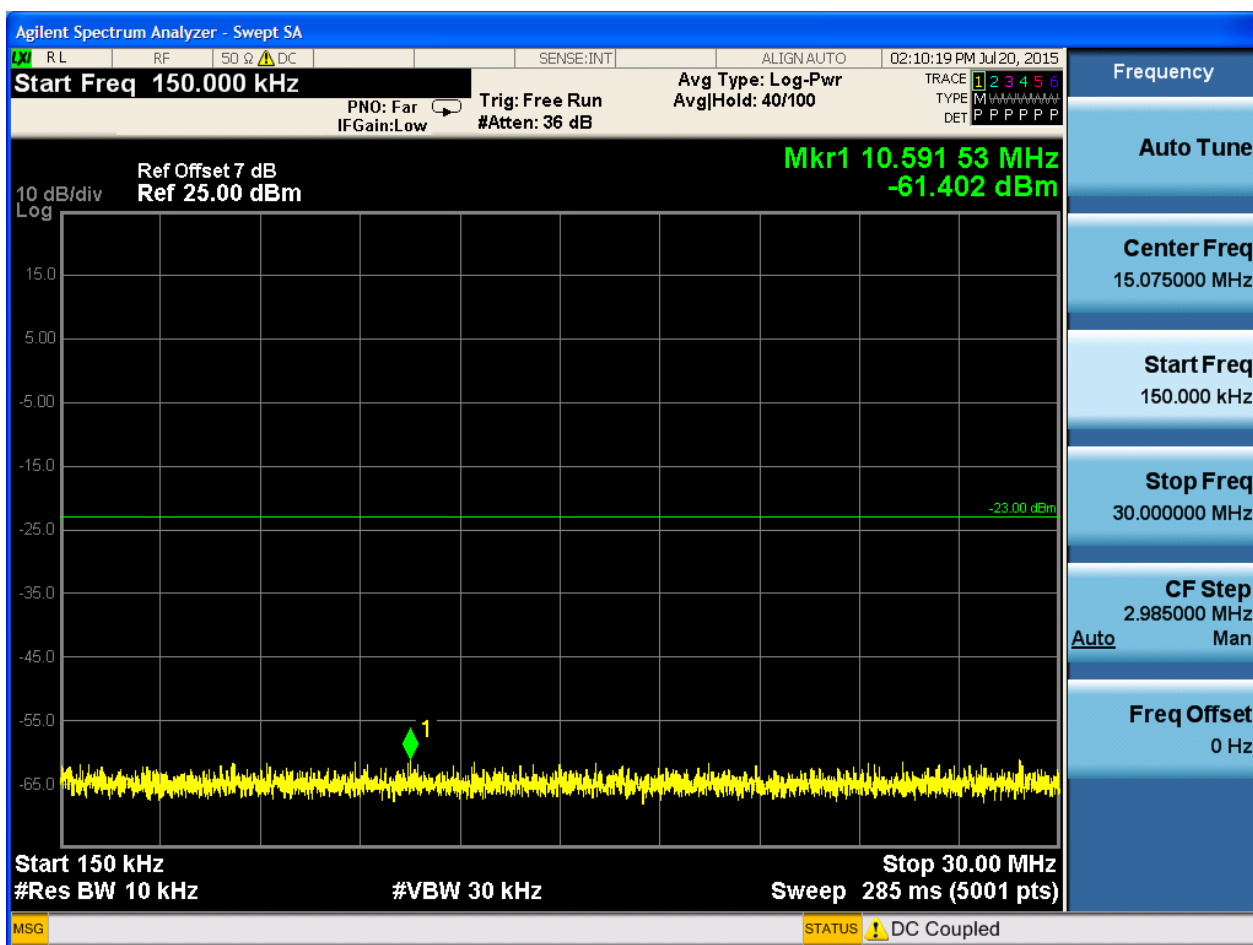


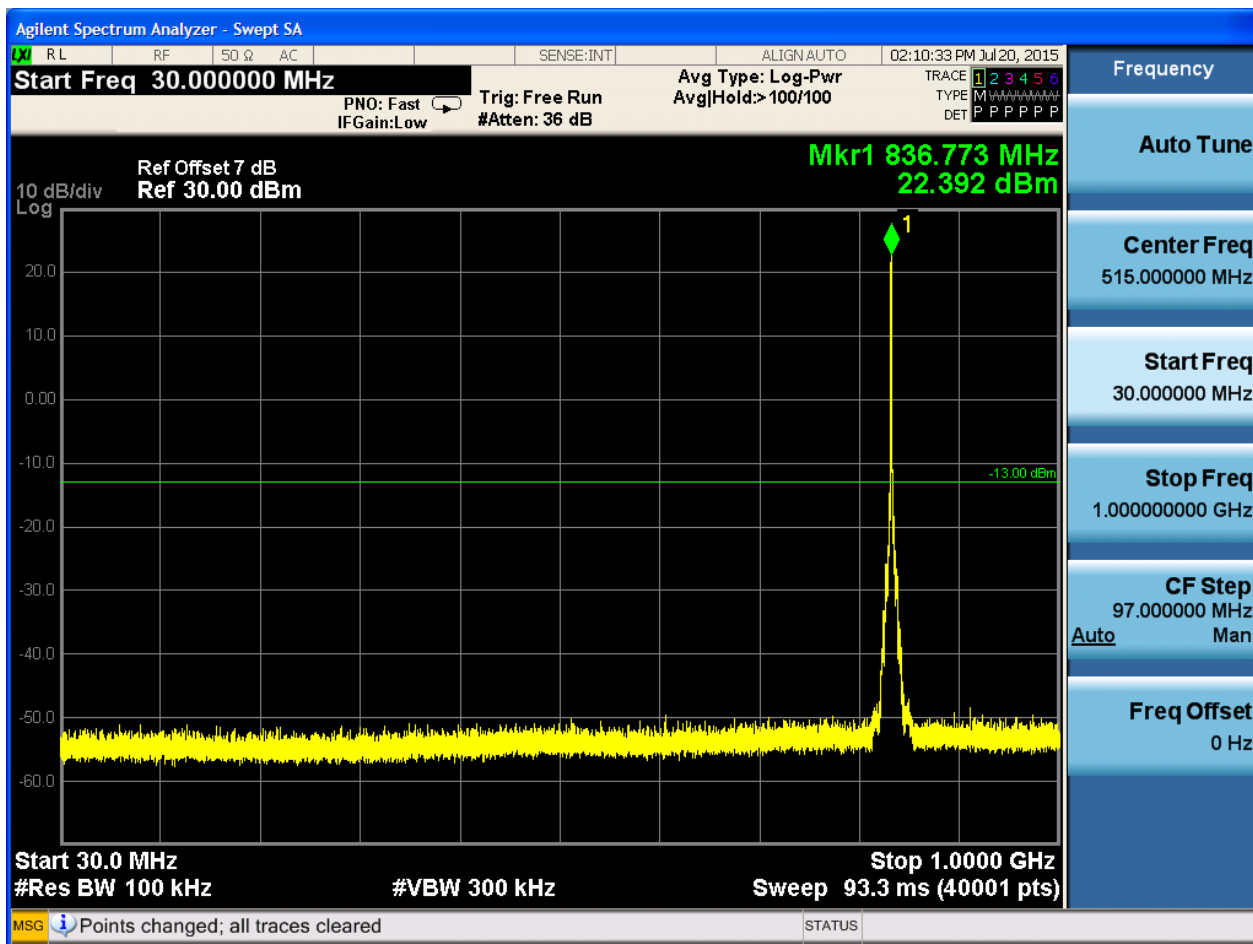


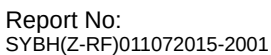


6.1.1.1.2 Test Channel = MCH

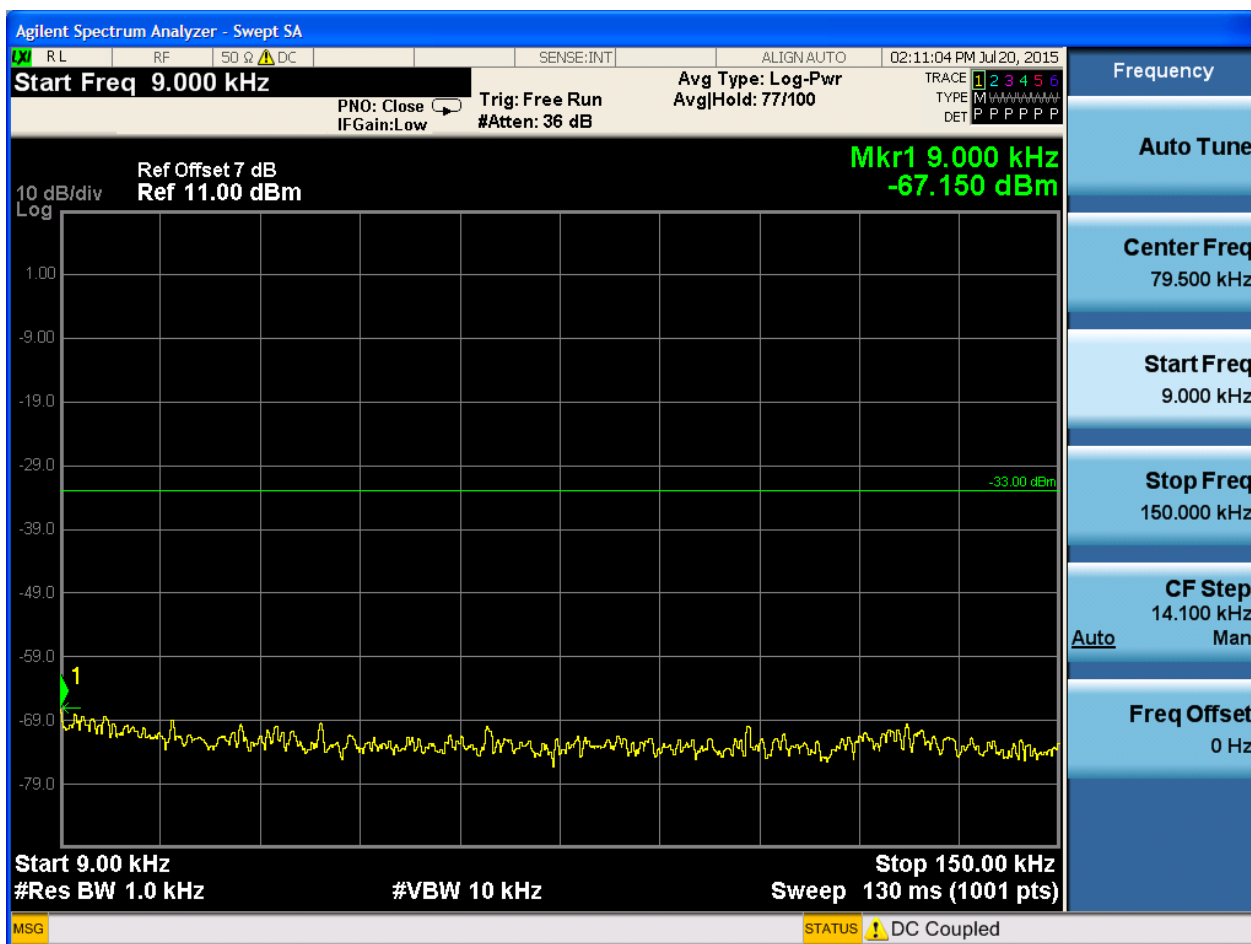


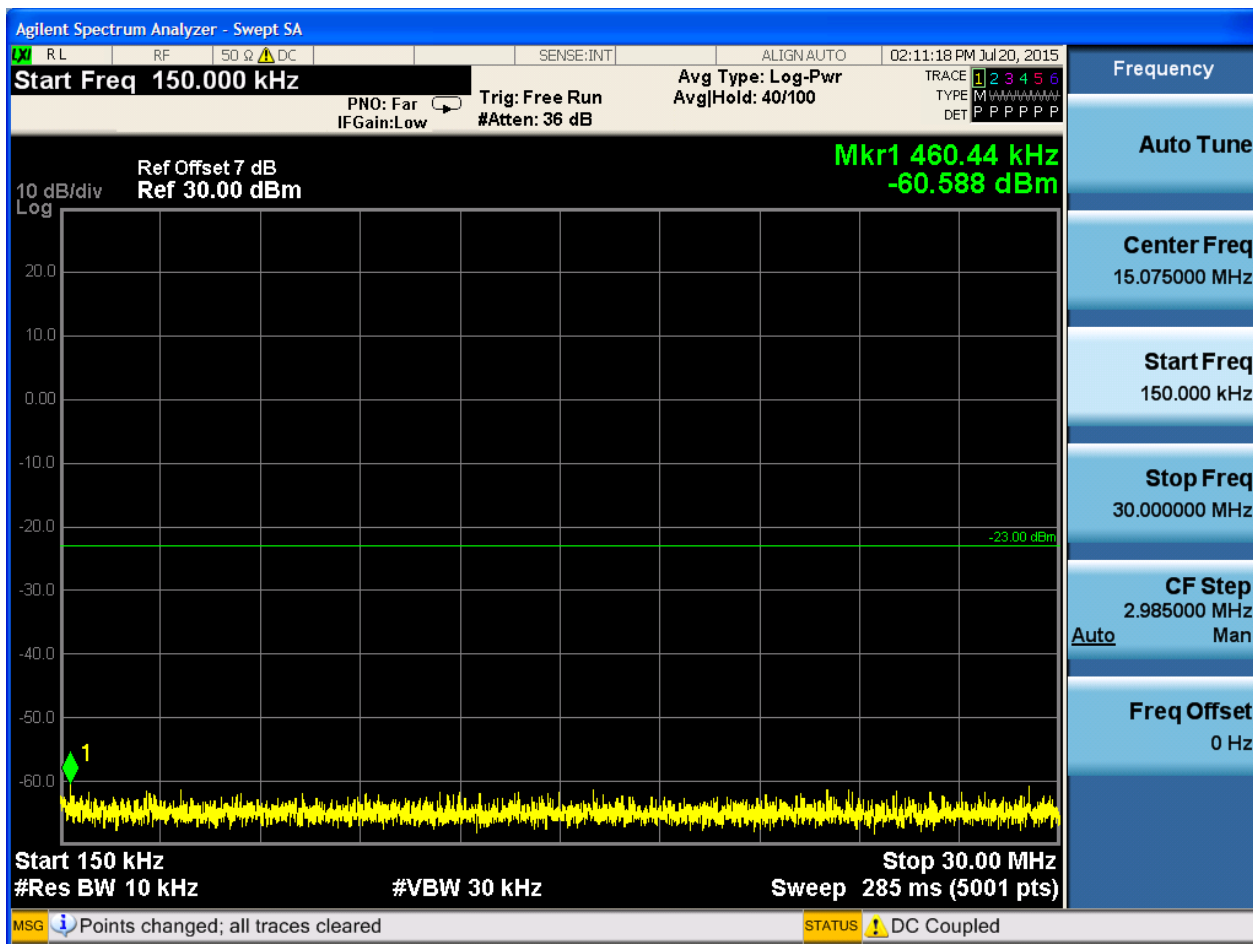


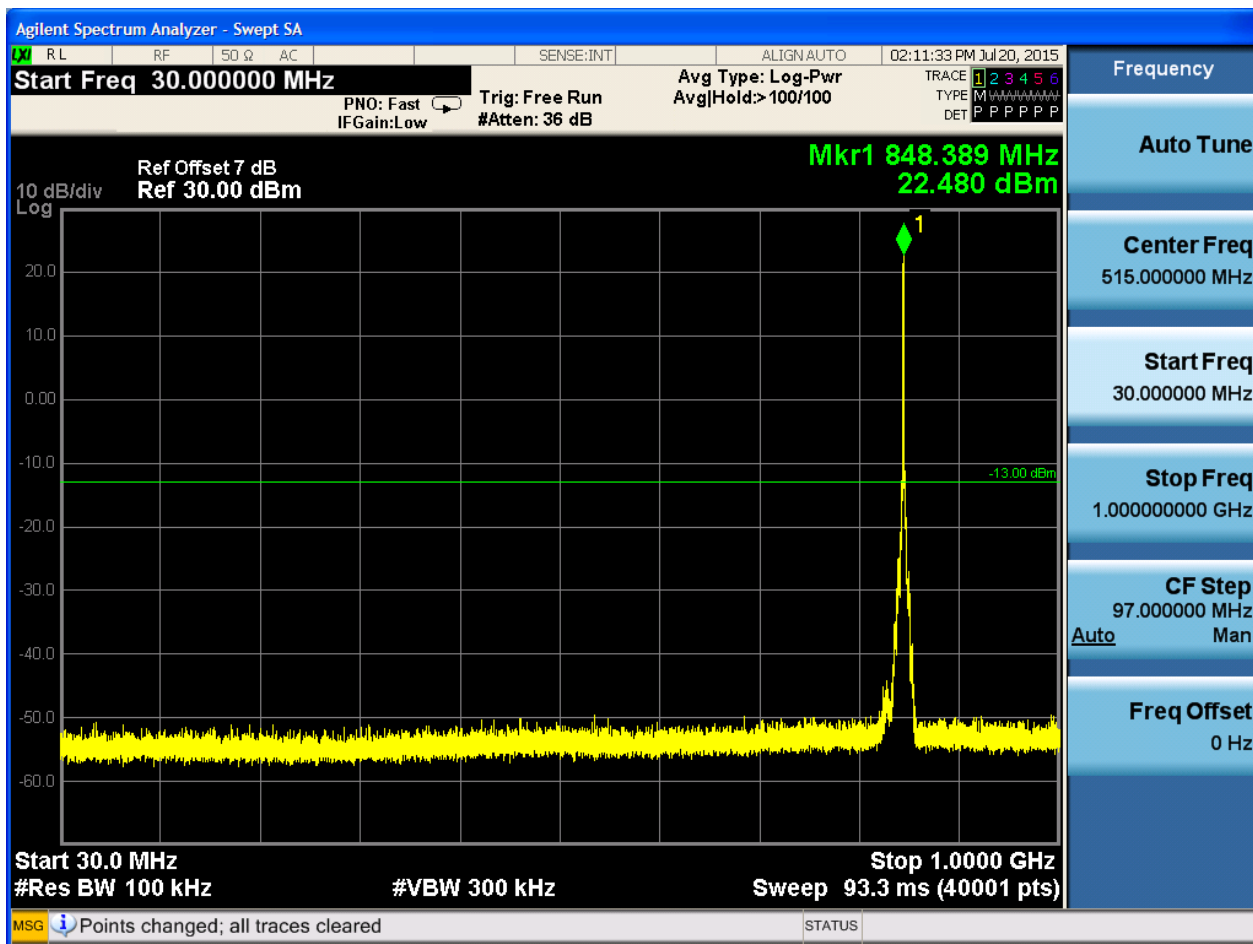


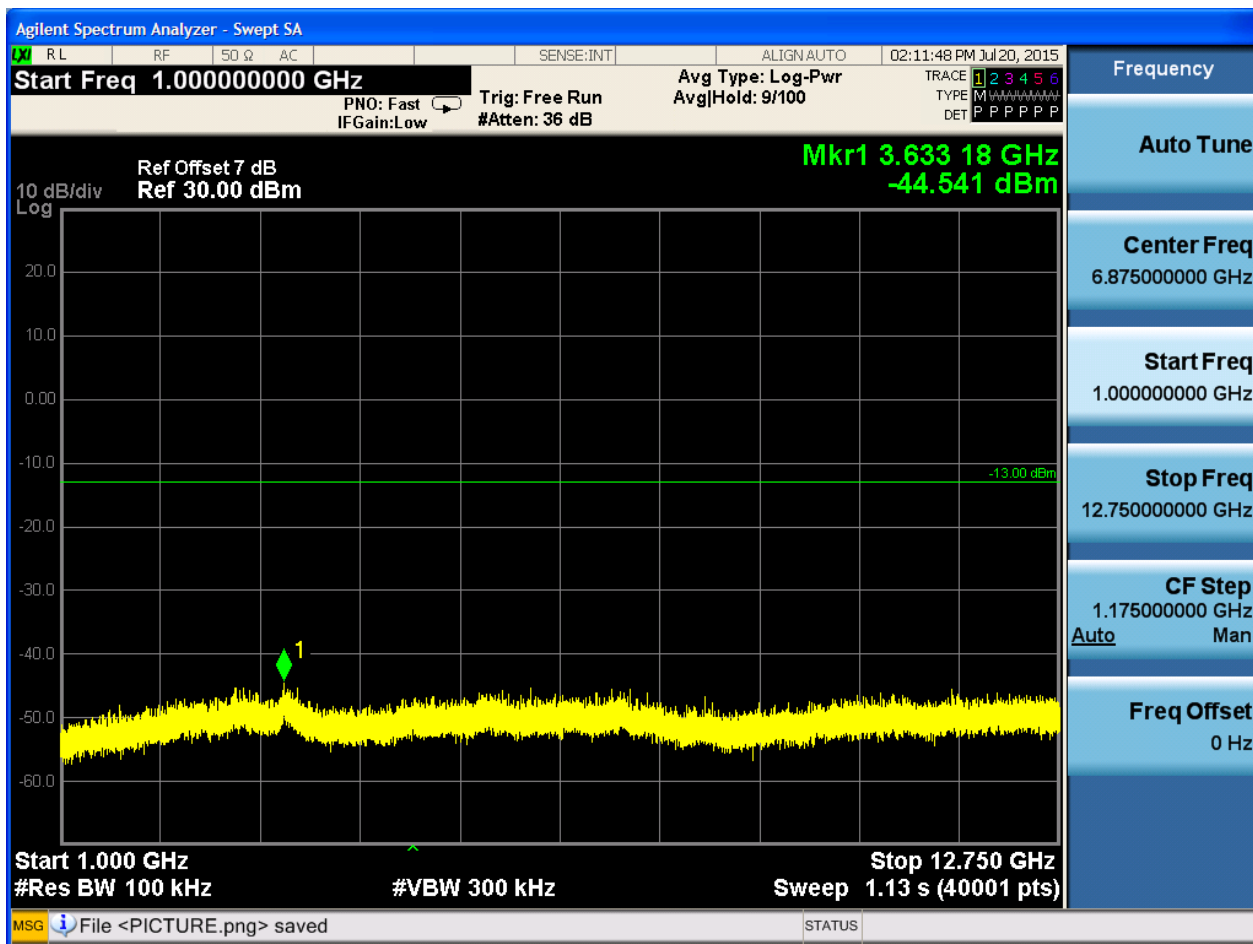


6.1.1.1.3 Test Channel = HCH



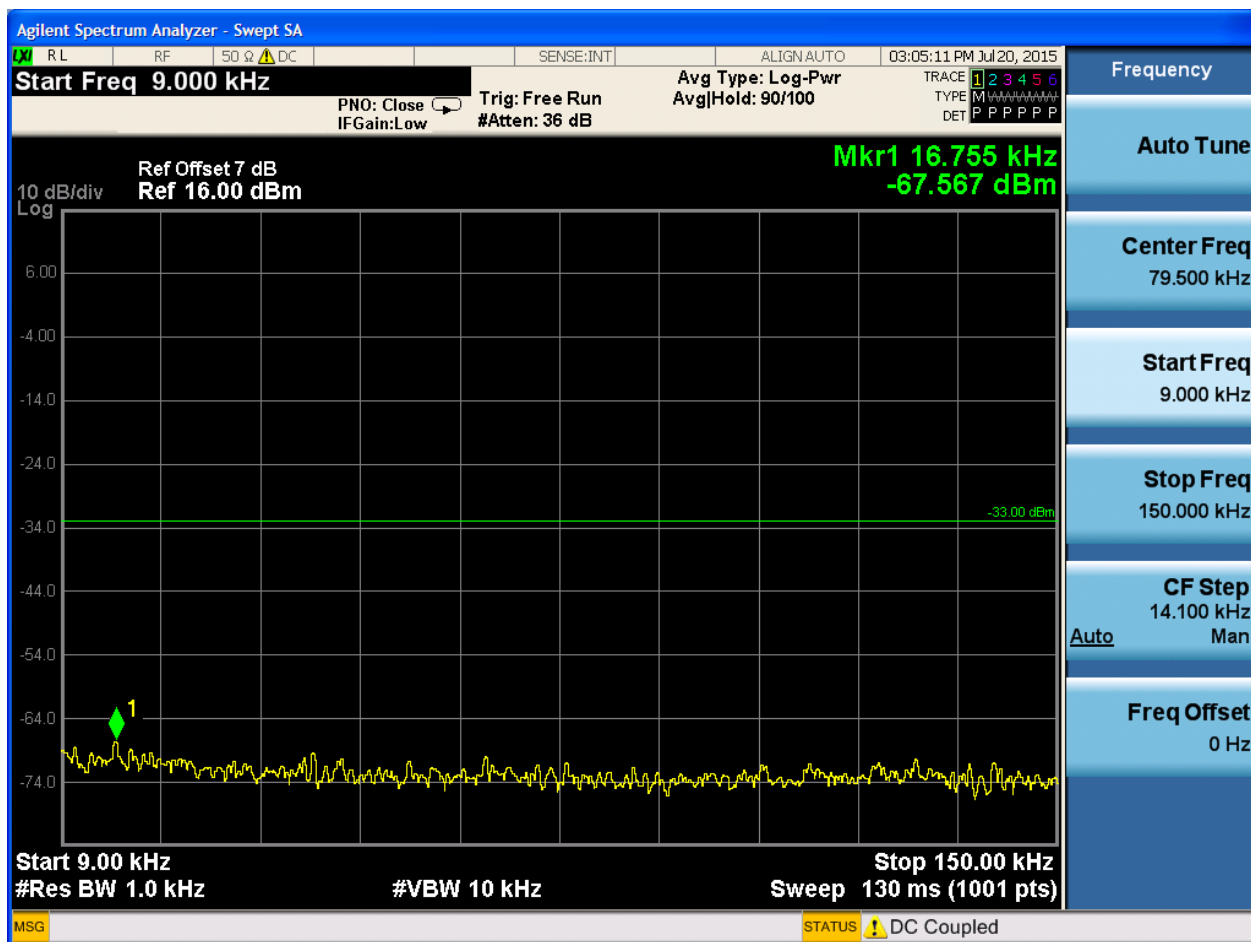


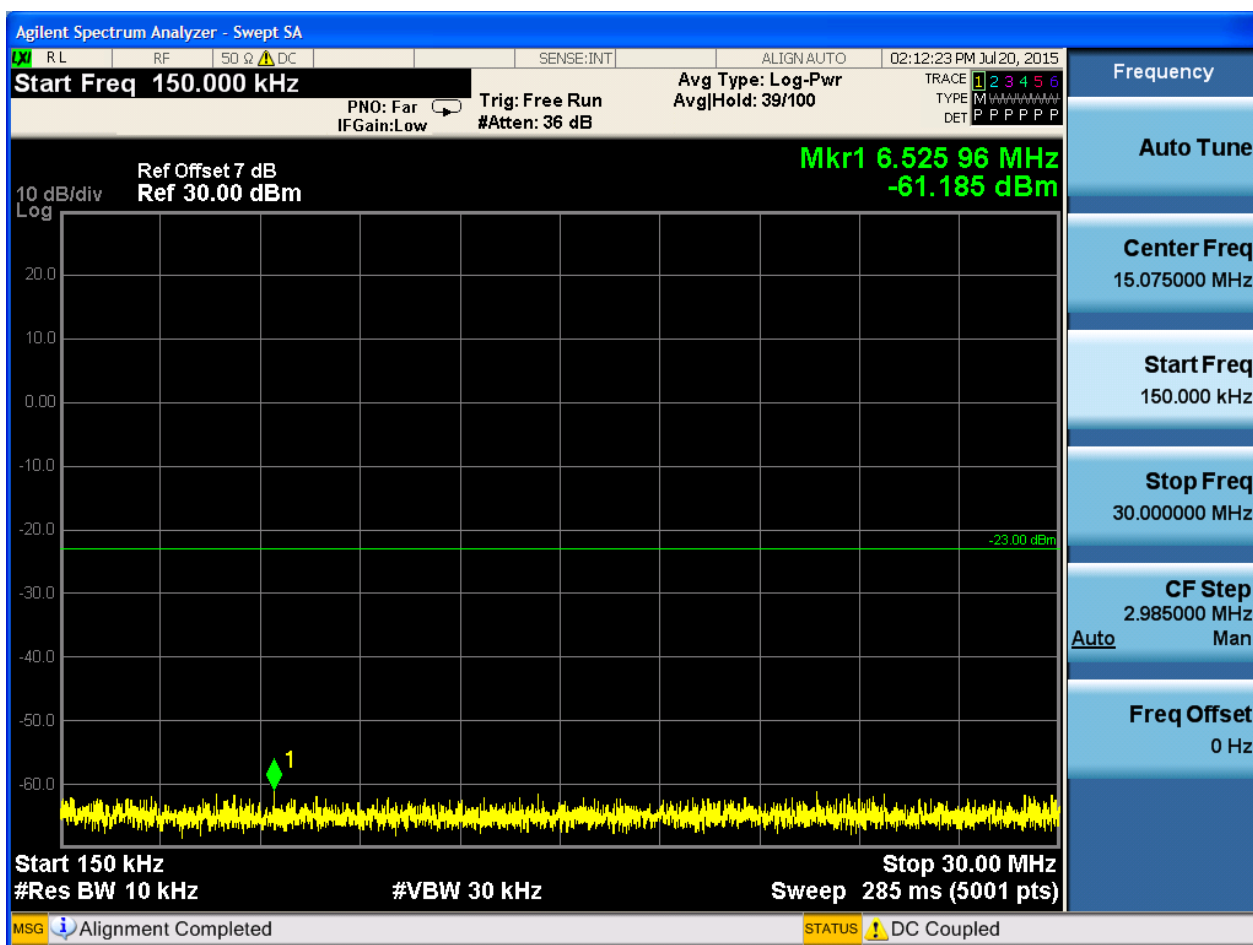


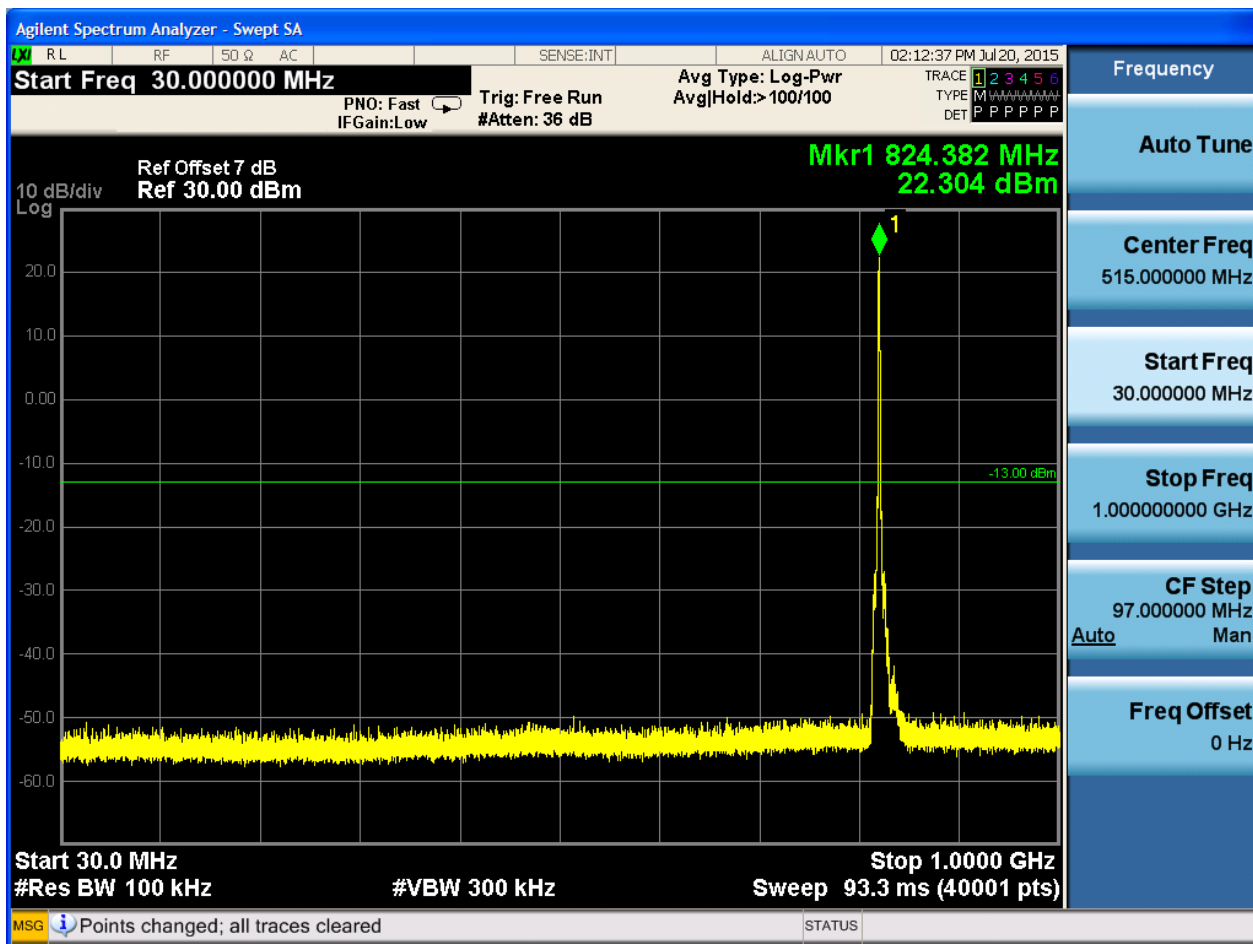


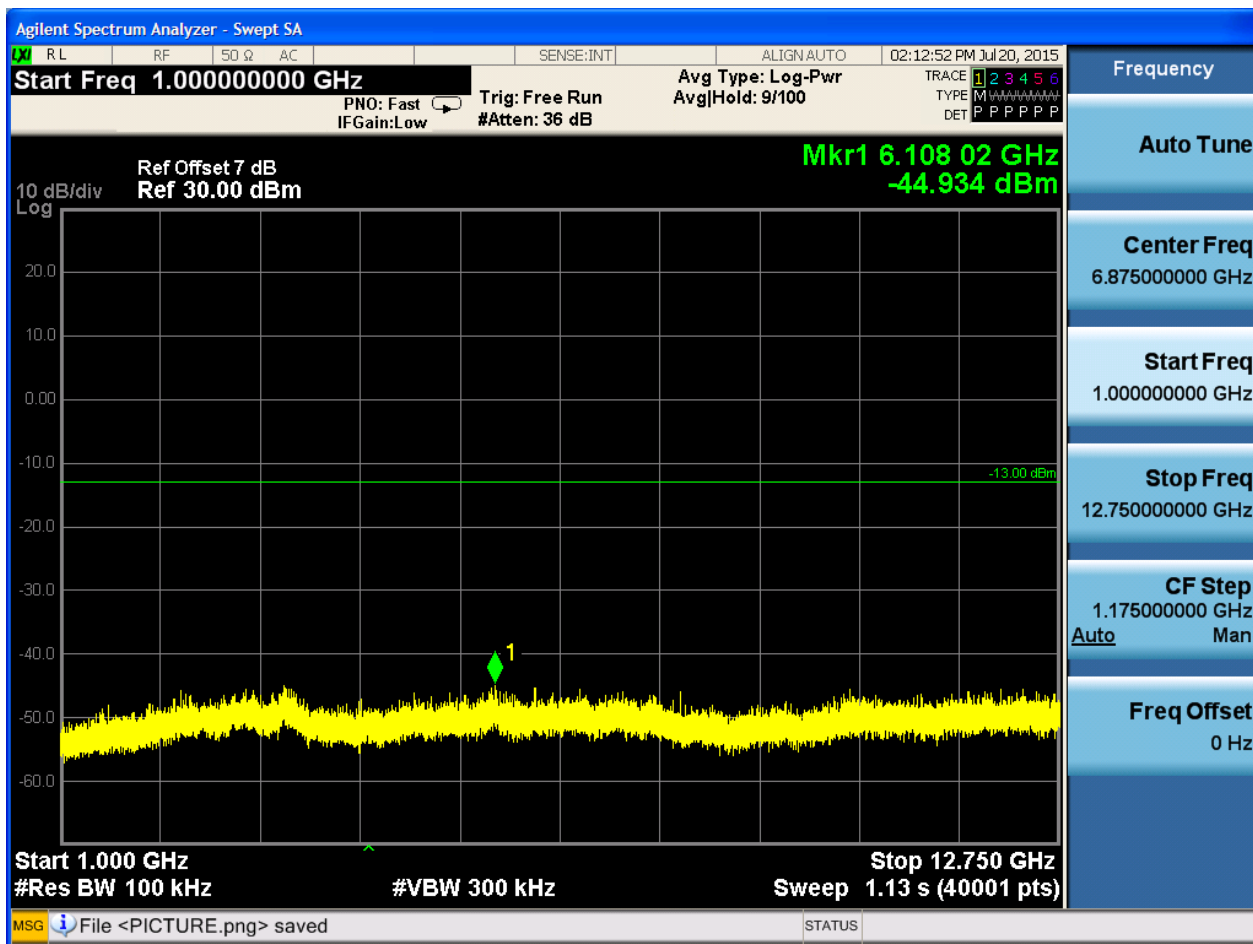
6.1.1.2 Test Mode = CDMA/1X/TM3

6.1.1.2.1 Test Channel = LCH

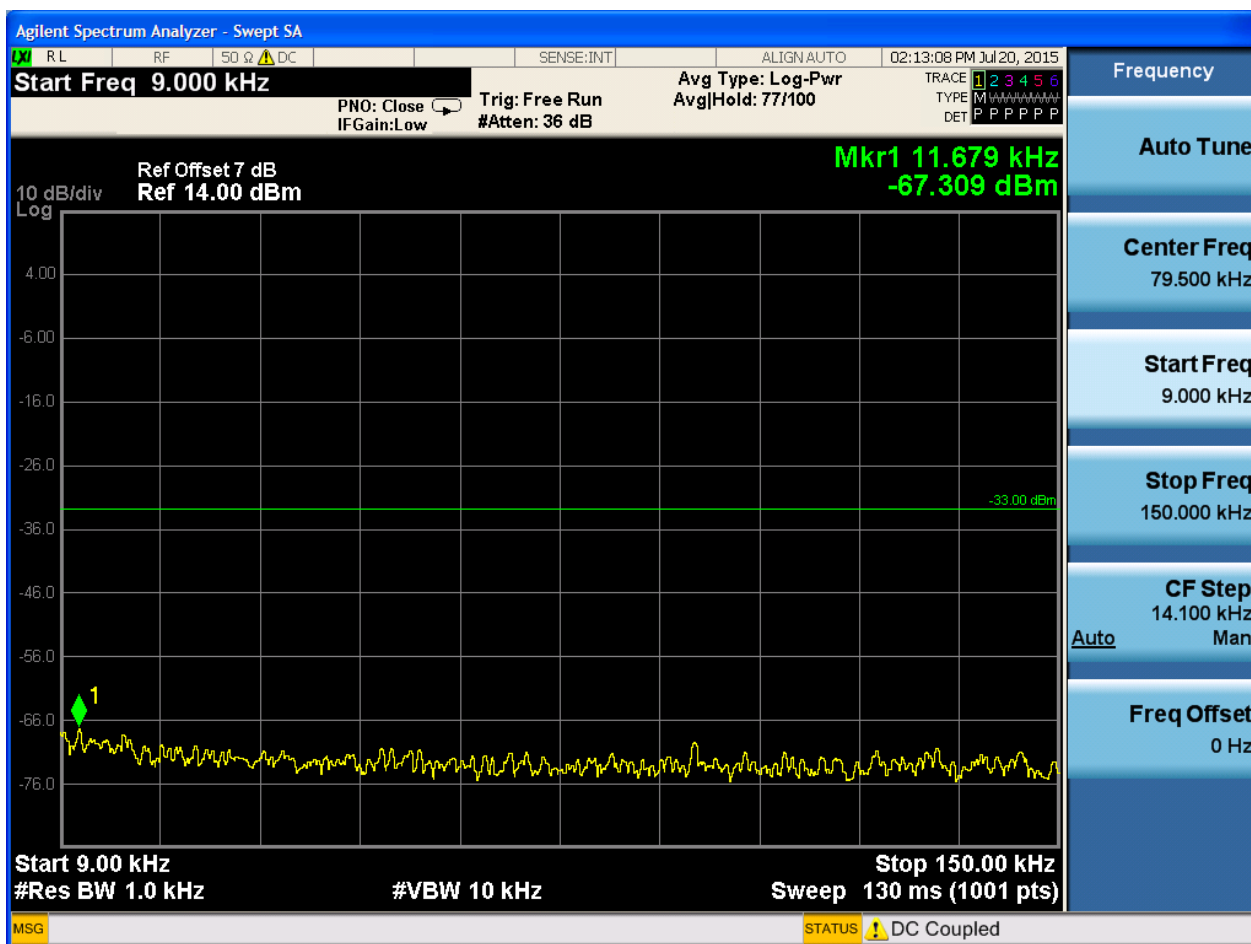


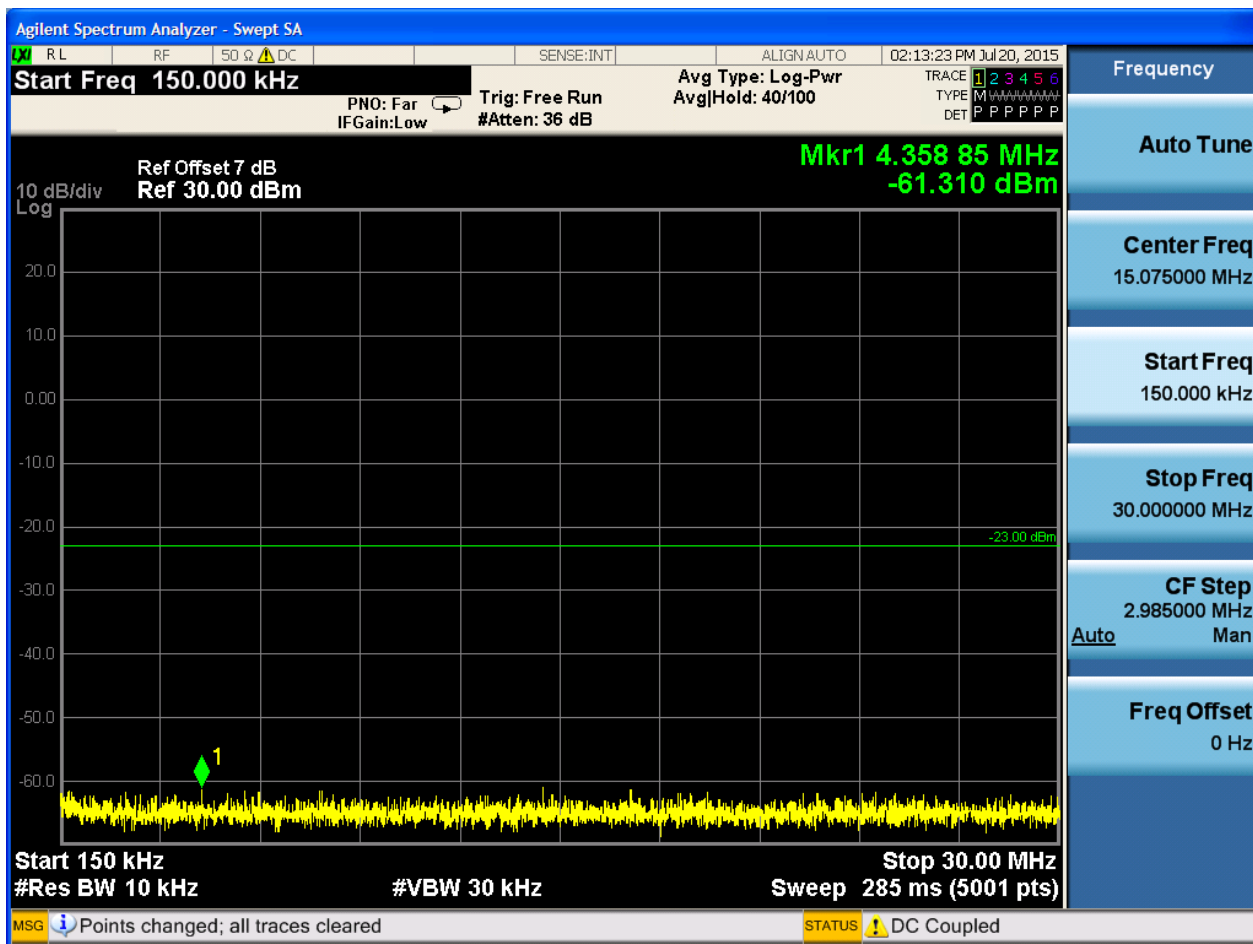


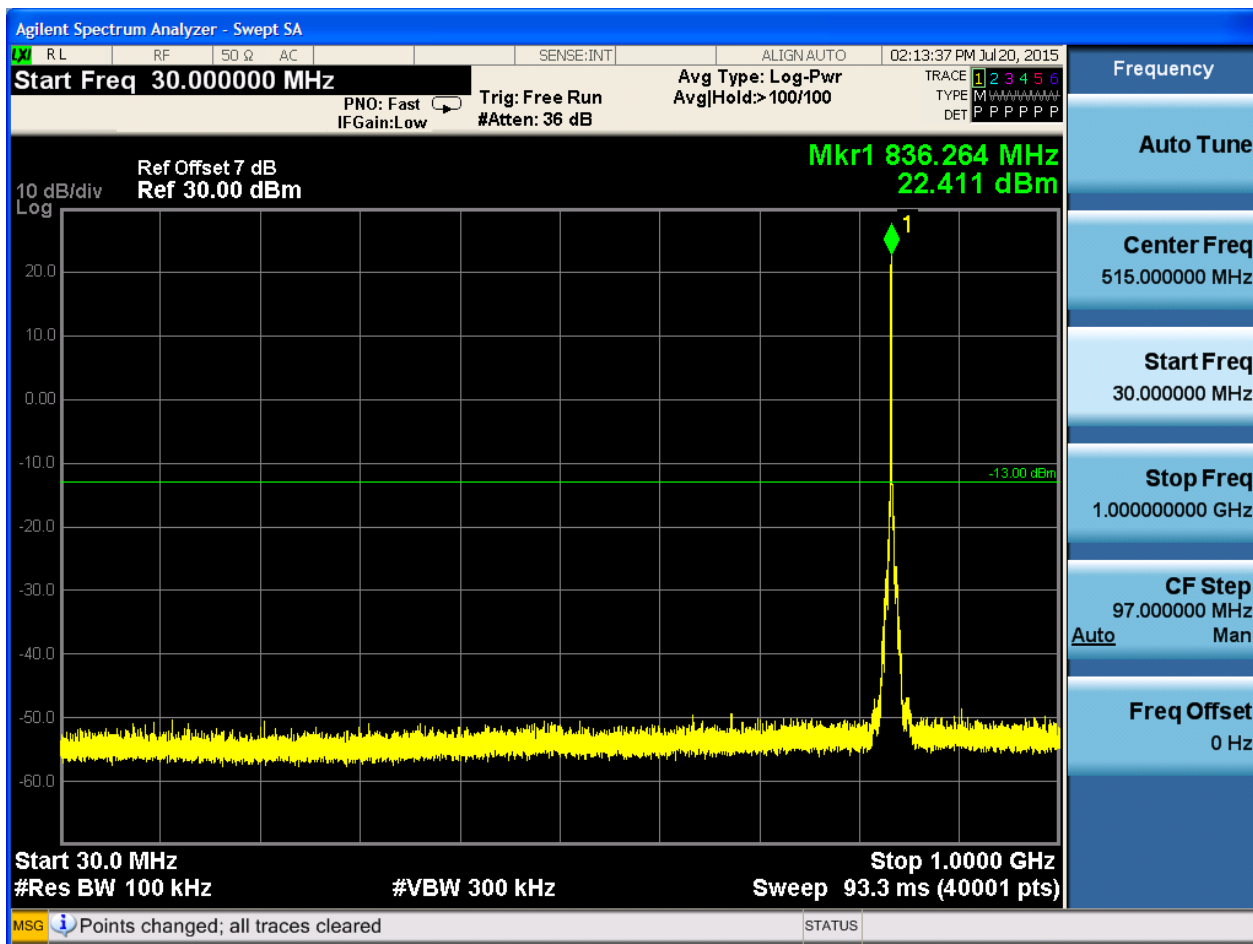


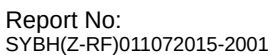


6.1.1.2.2 Test Channel = MCH

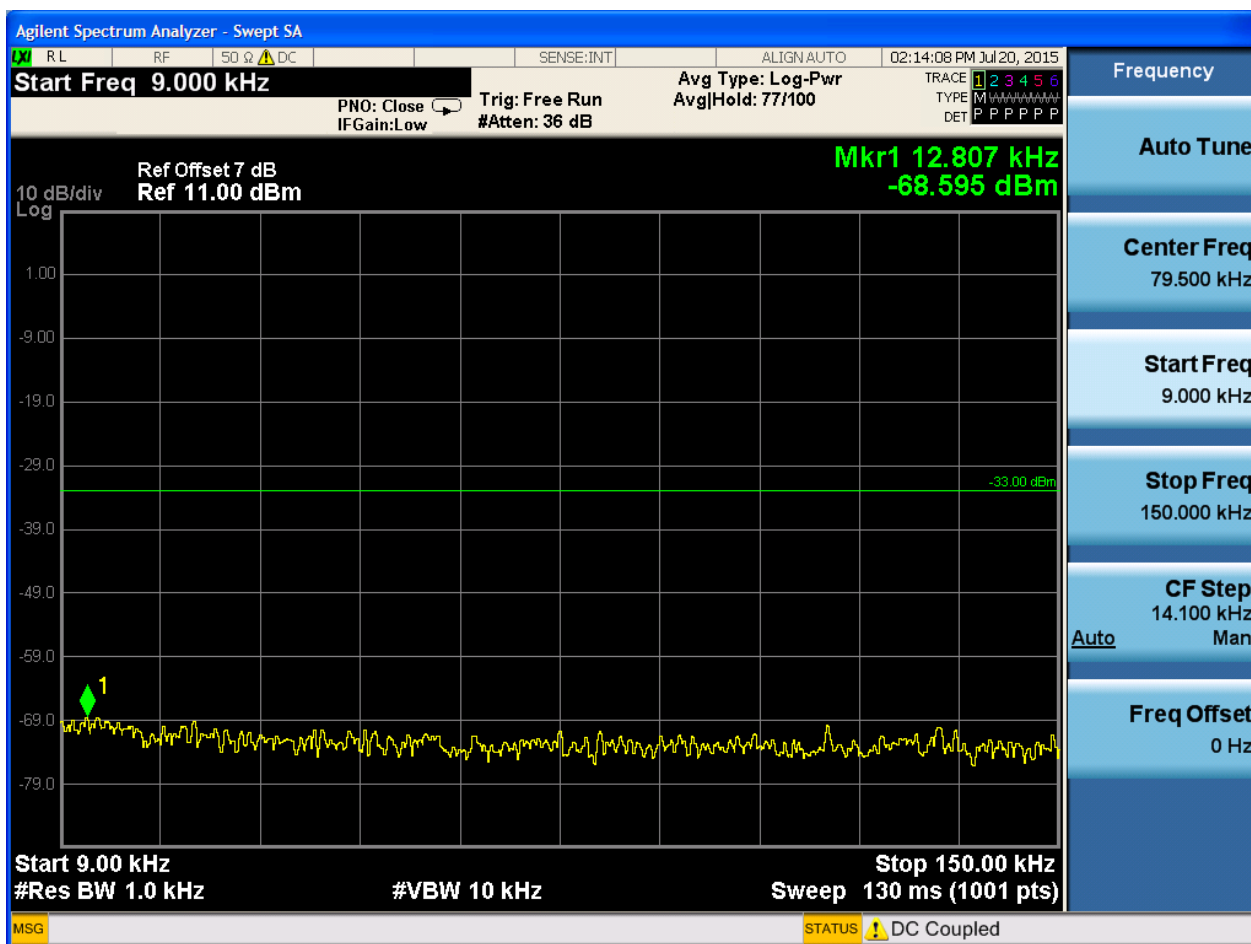


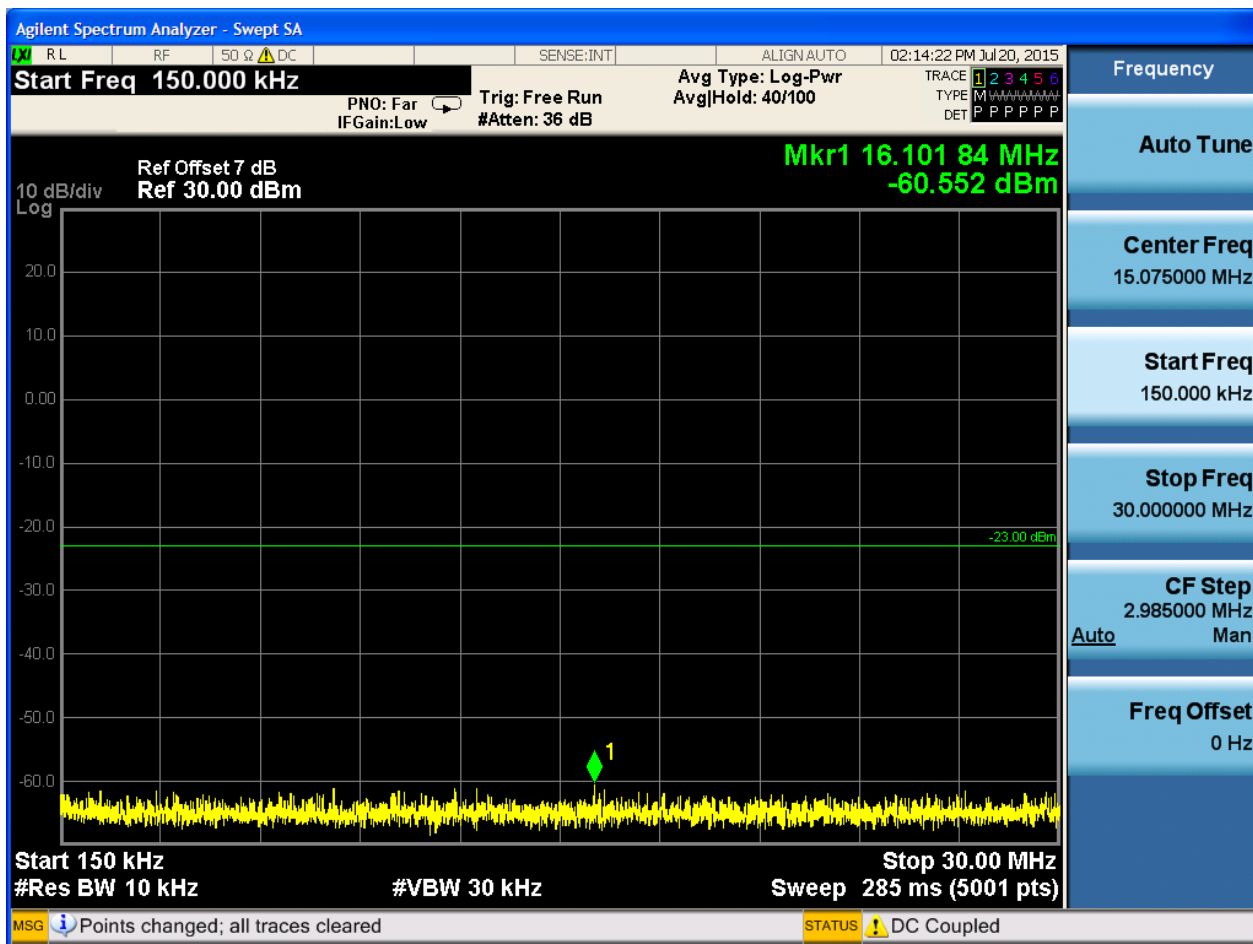


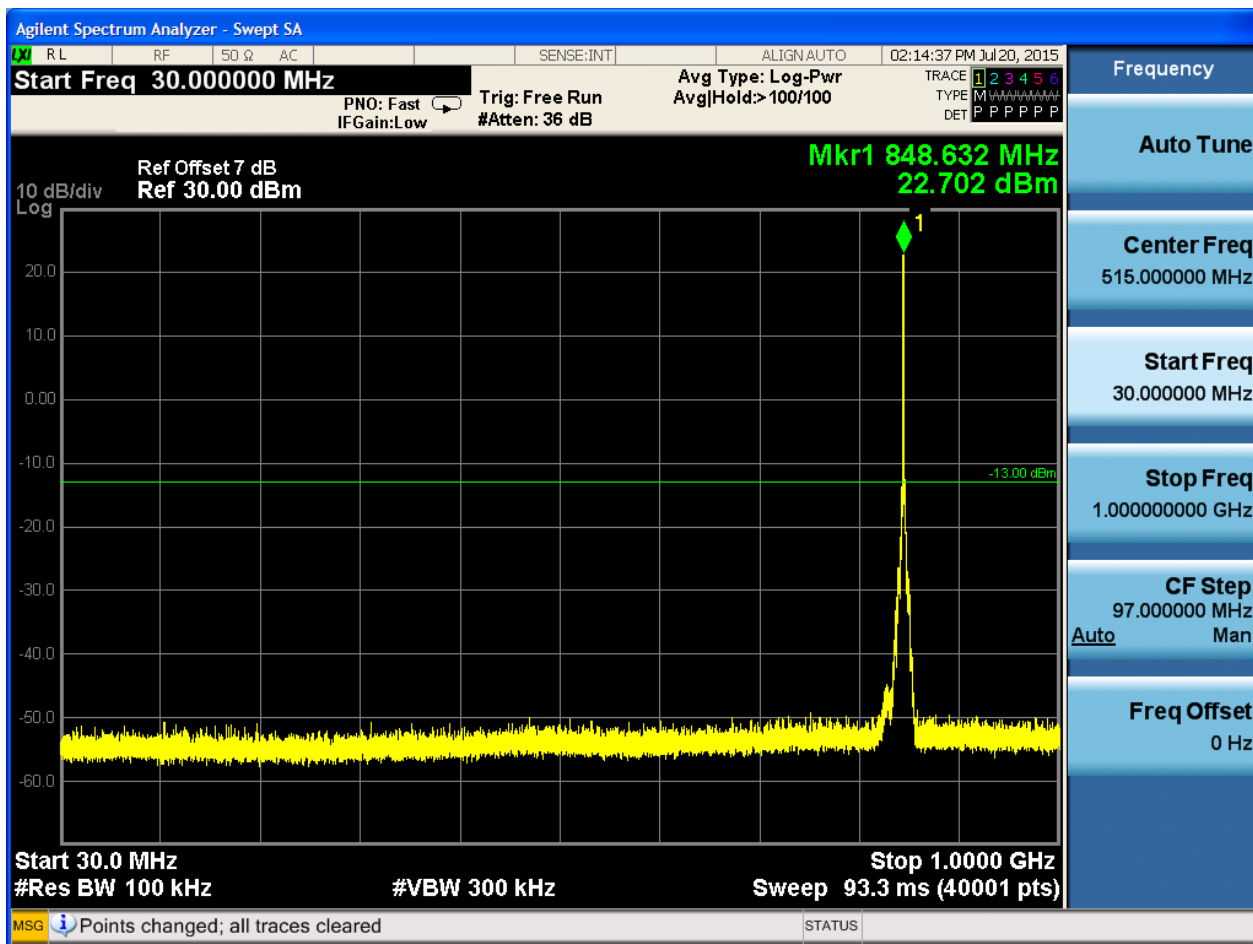


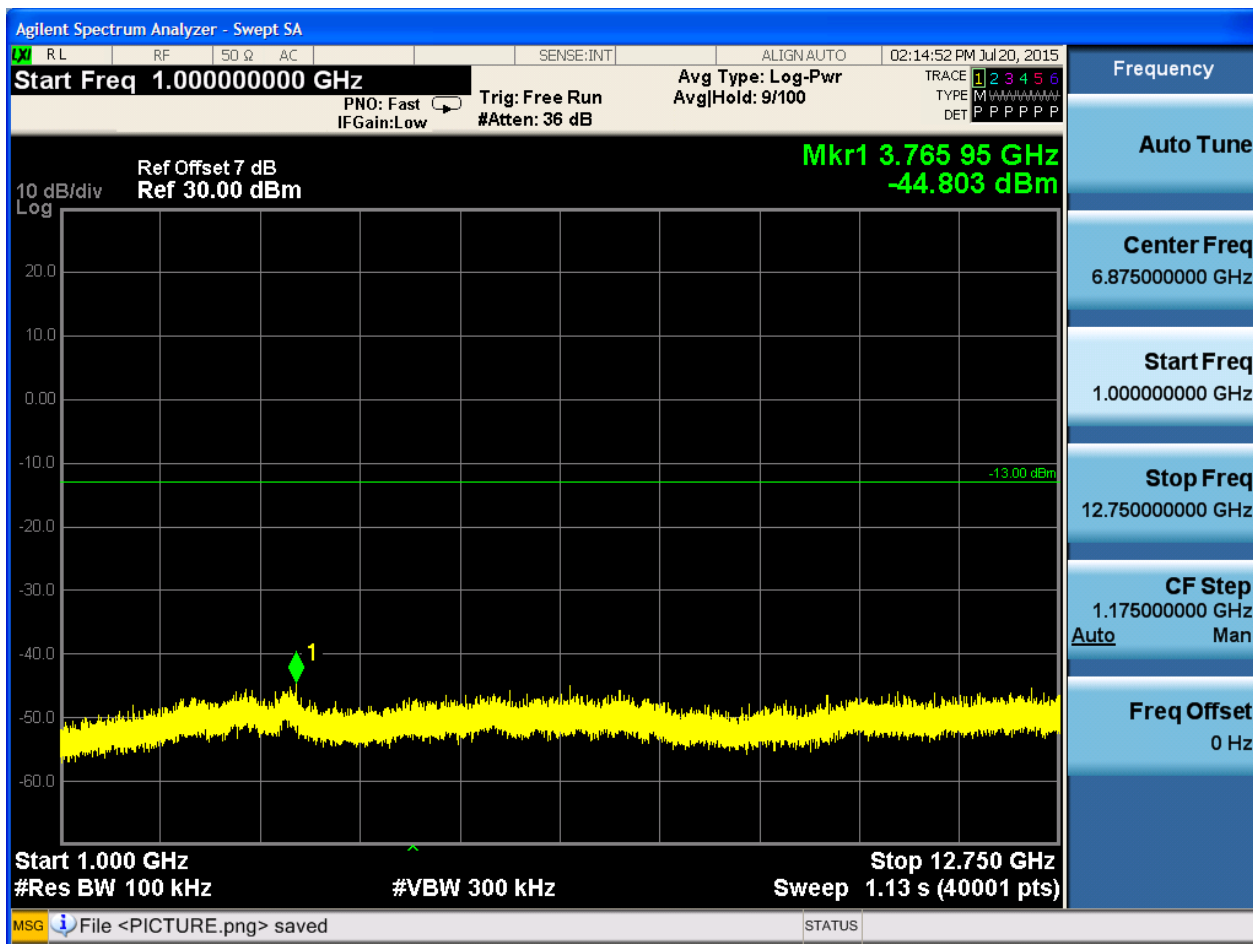


6.1.1.2.3 Test Channel = HCH





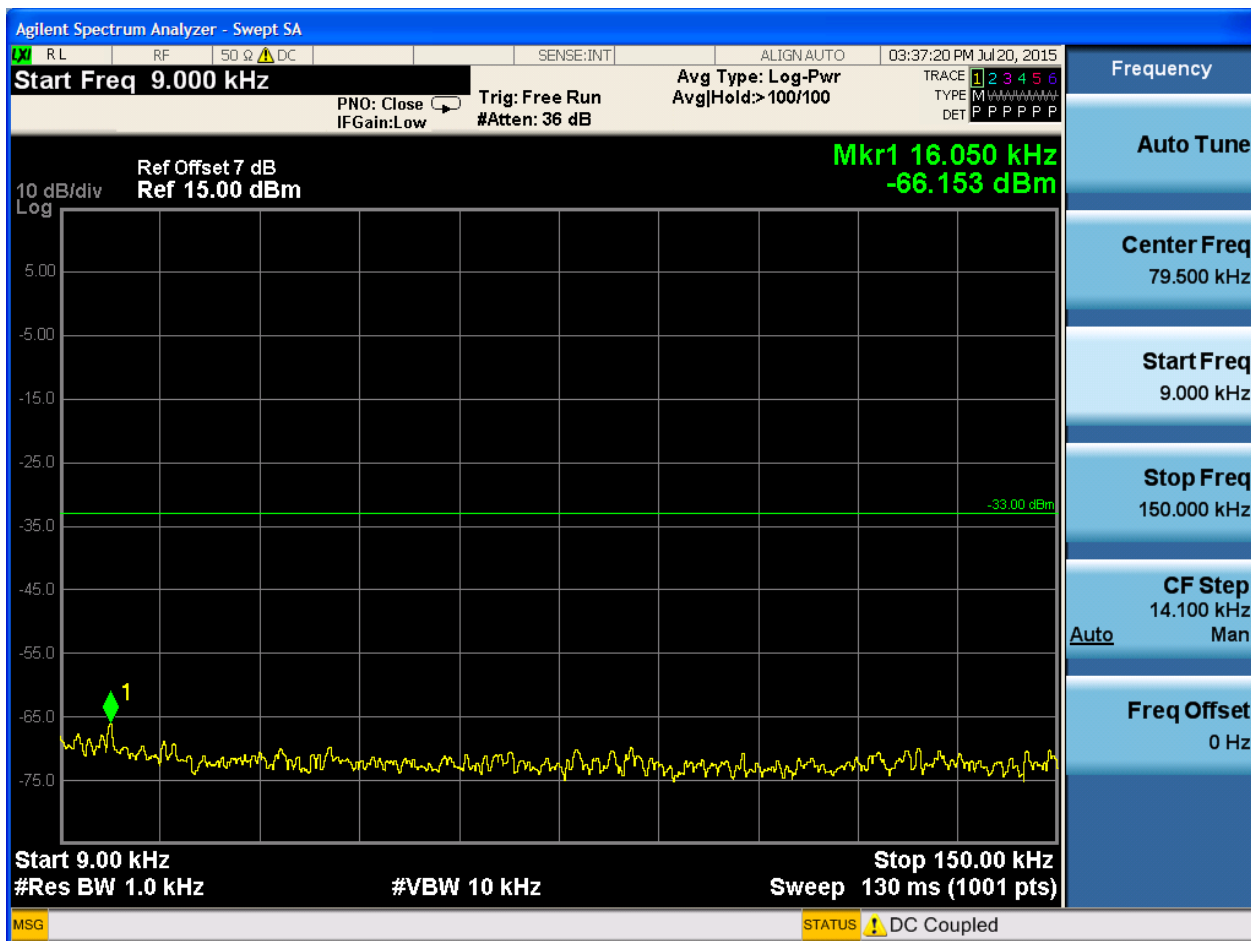


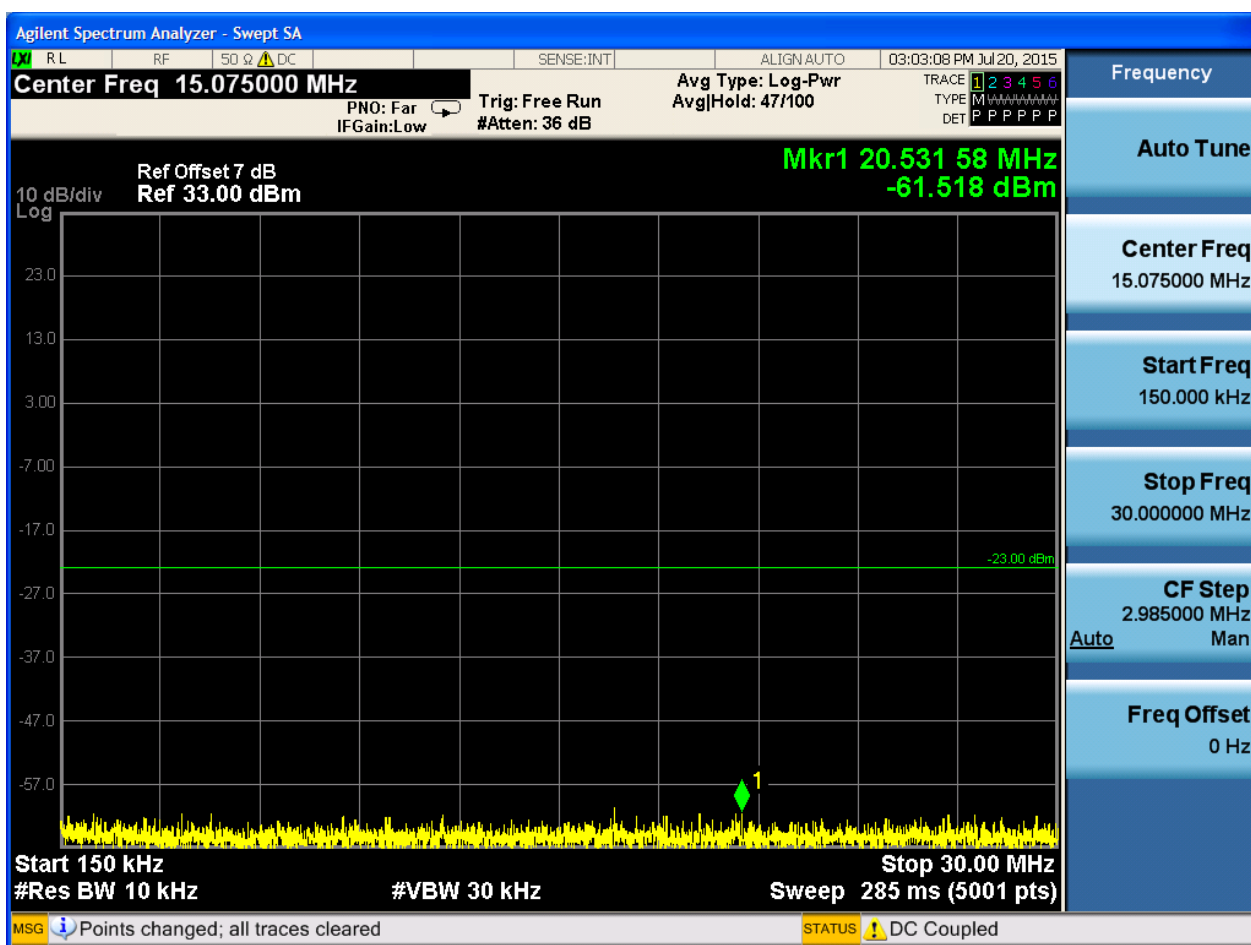


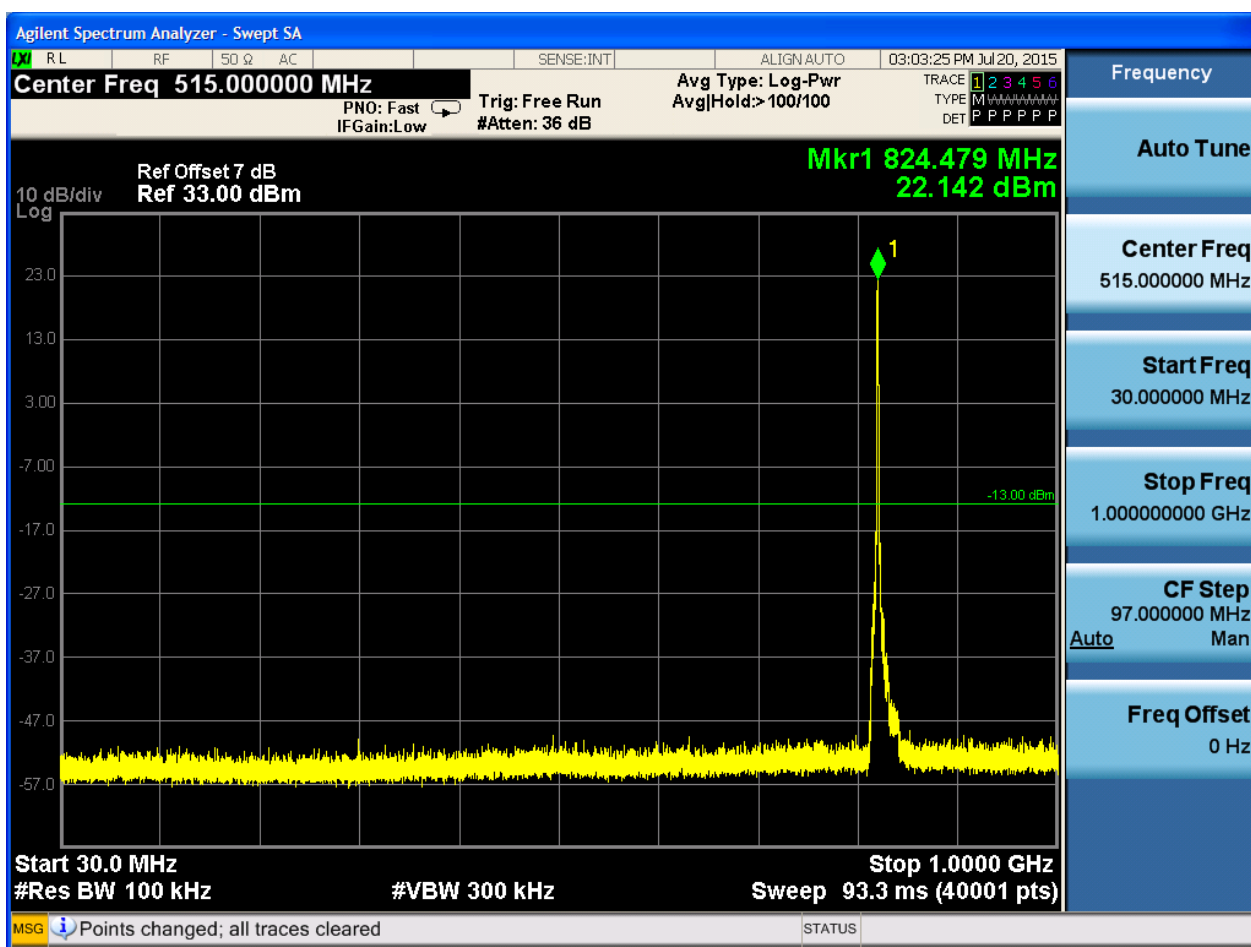


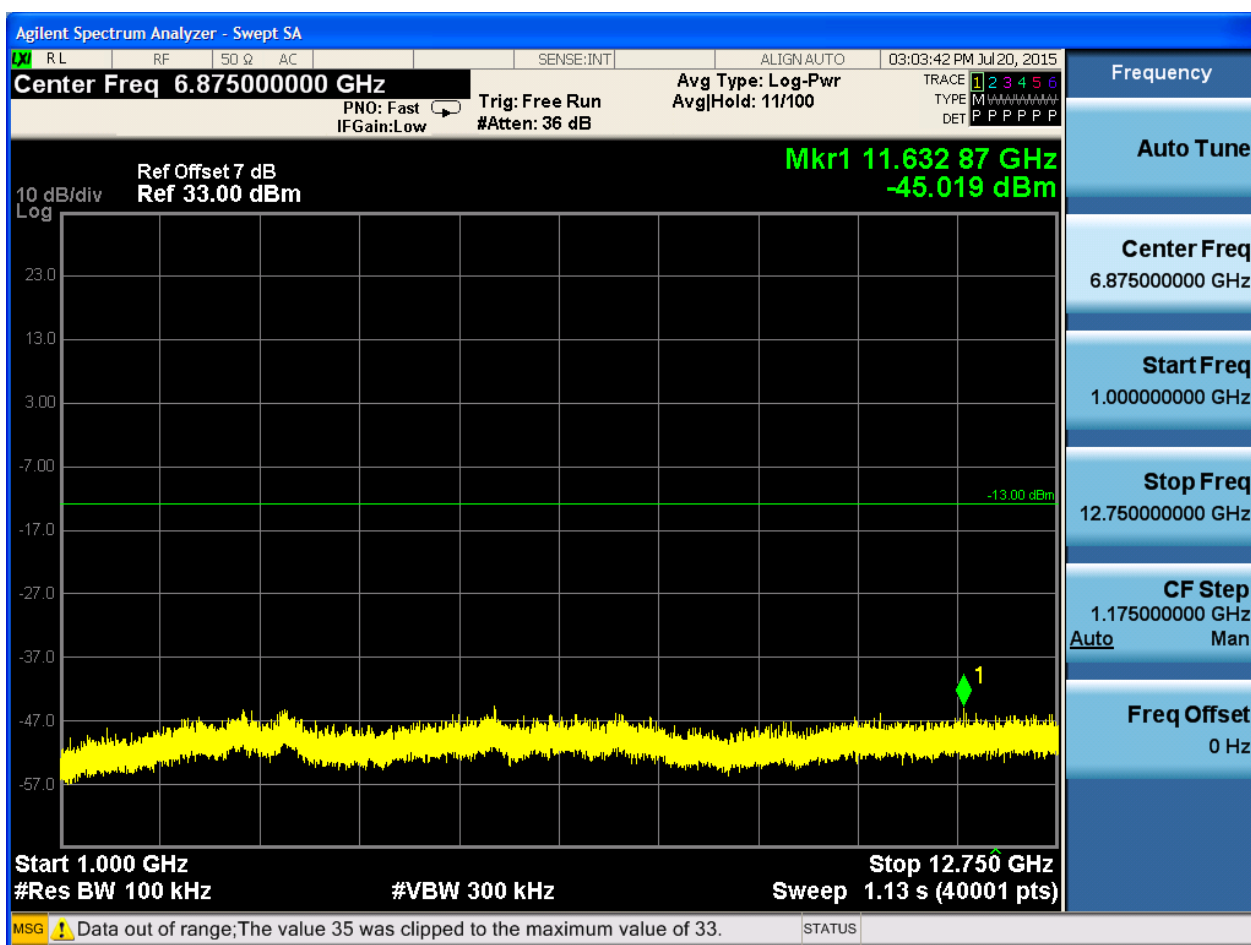
6.1.1.3 Test Mode = CDMA/EV-DO/Subtype0

6.1.1.3.1 Test Channel = LCH

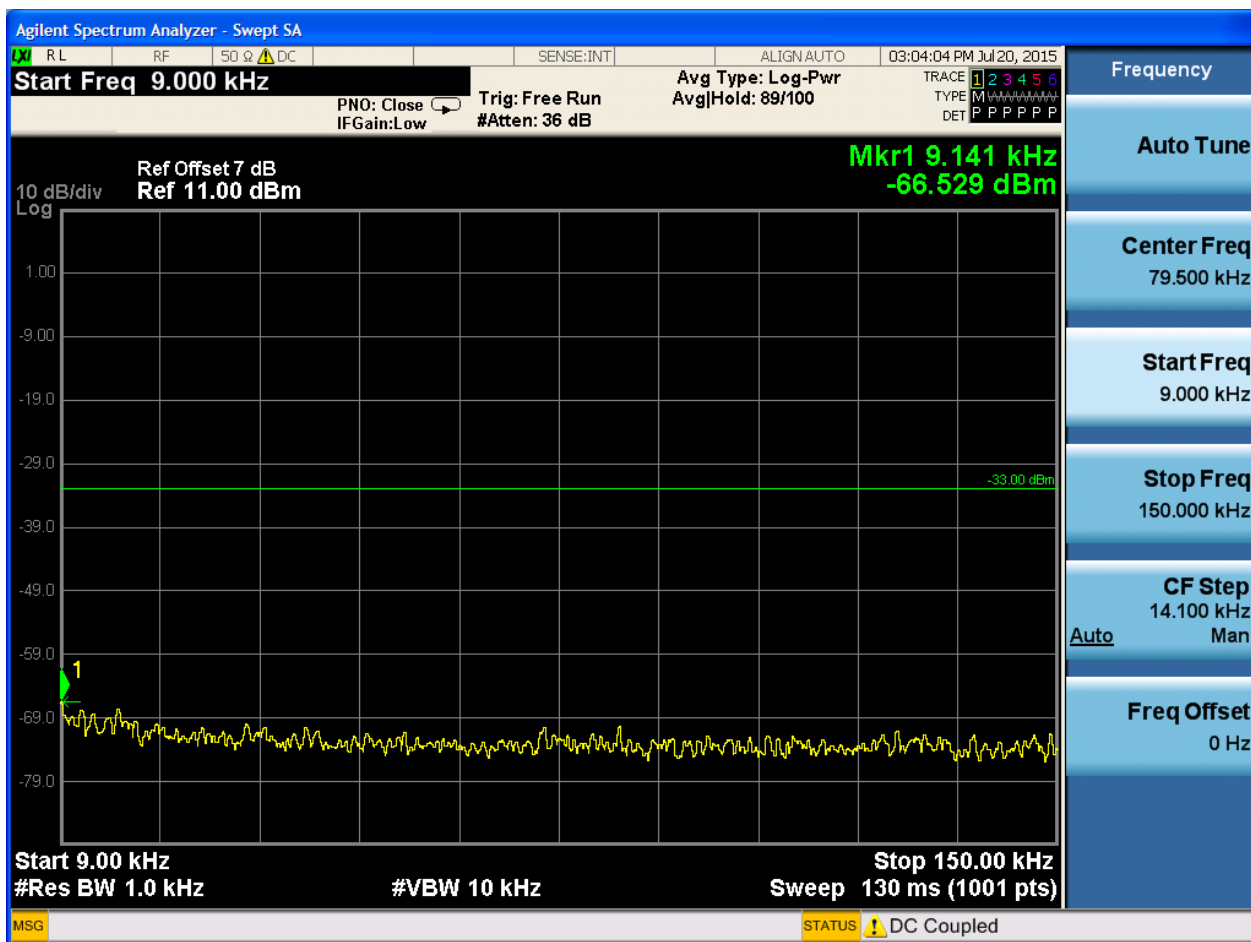


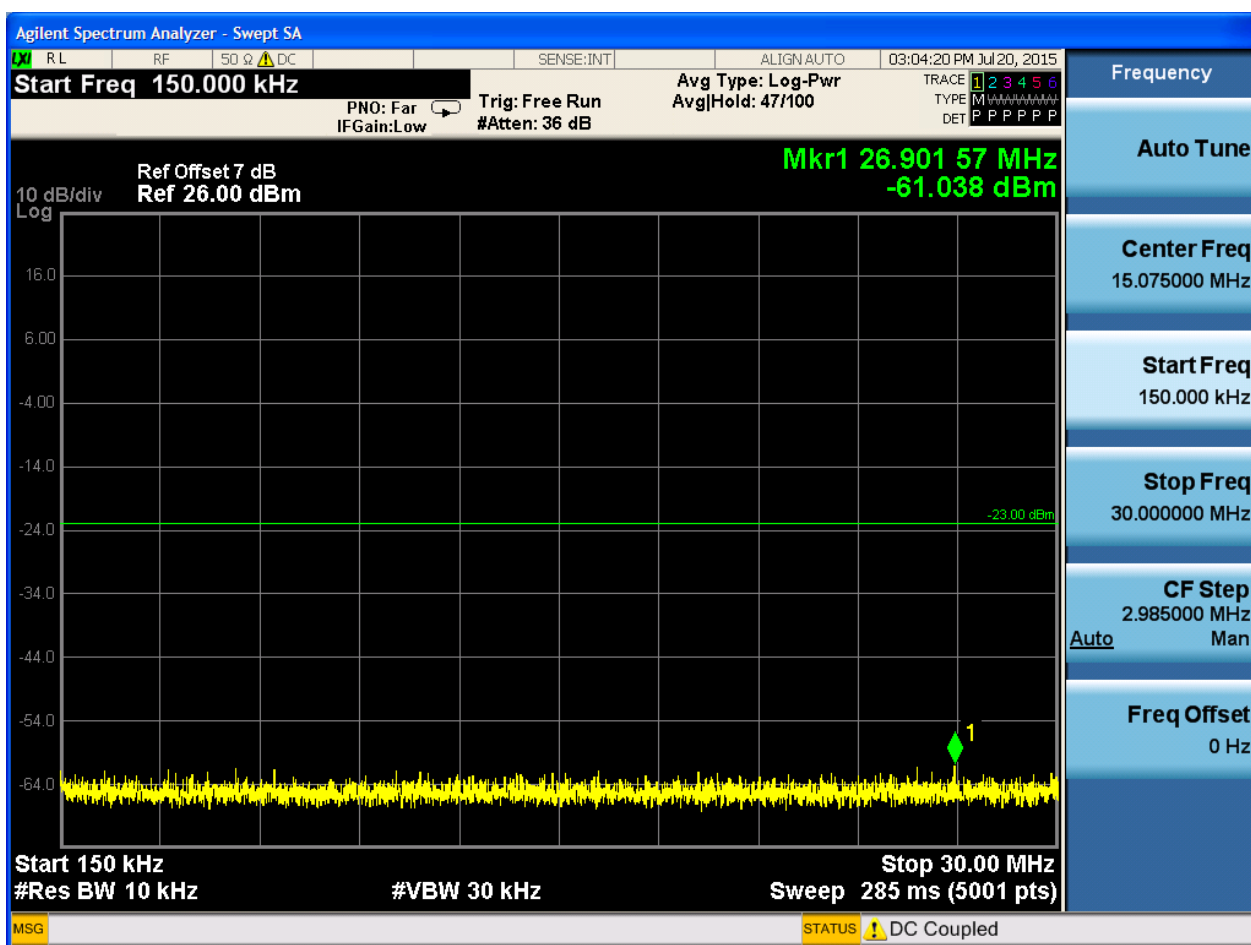


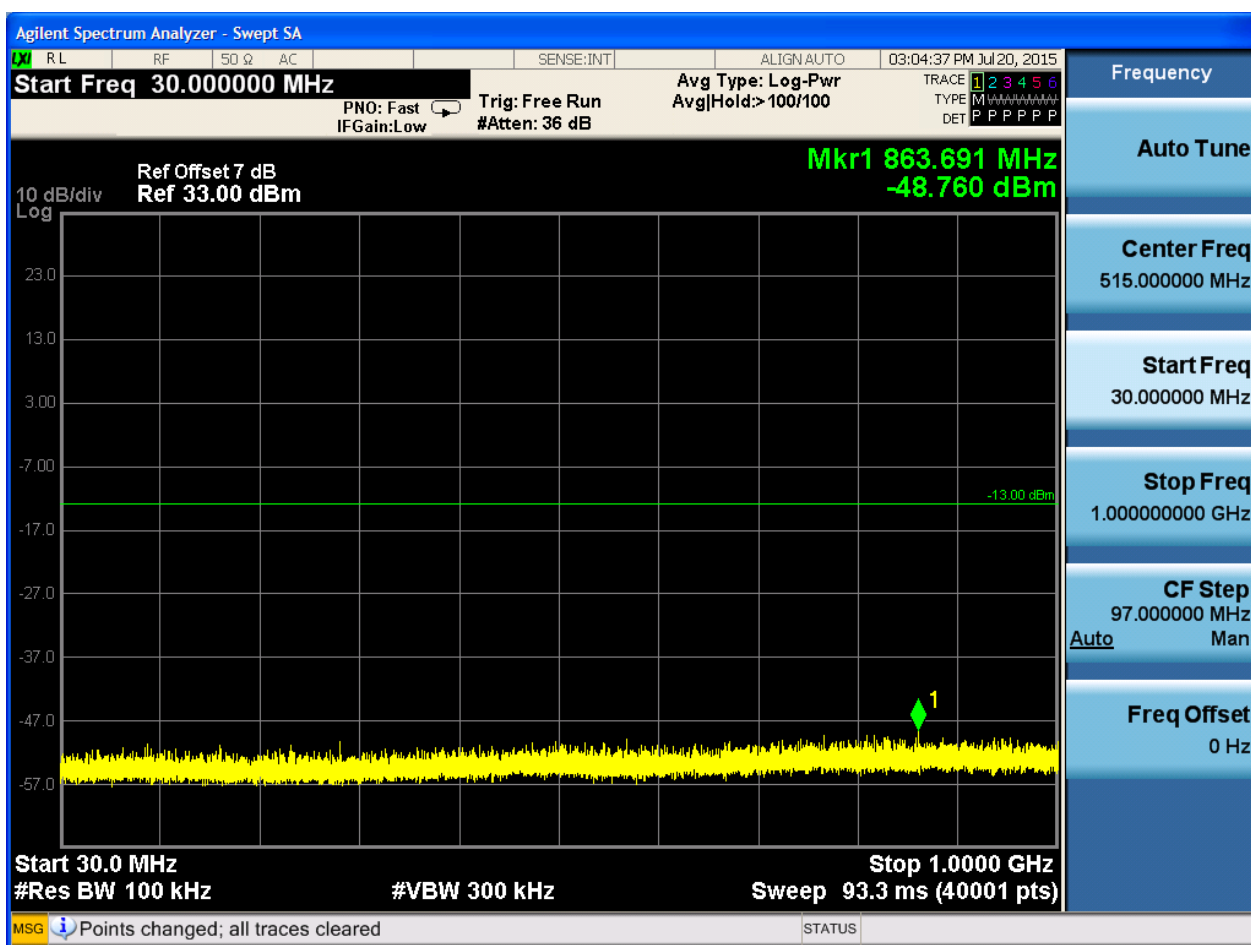


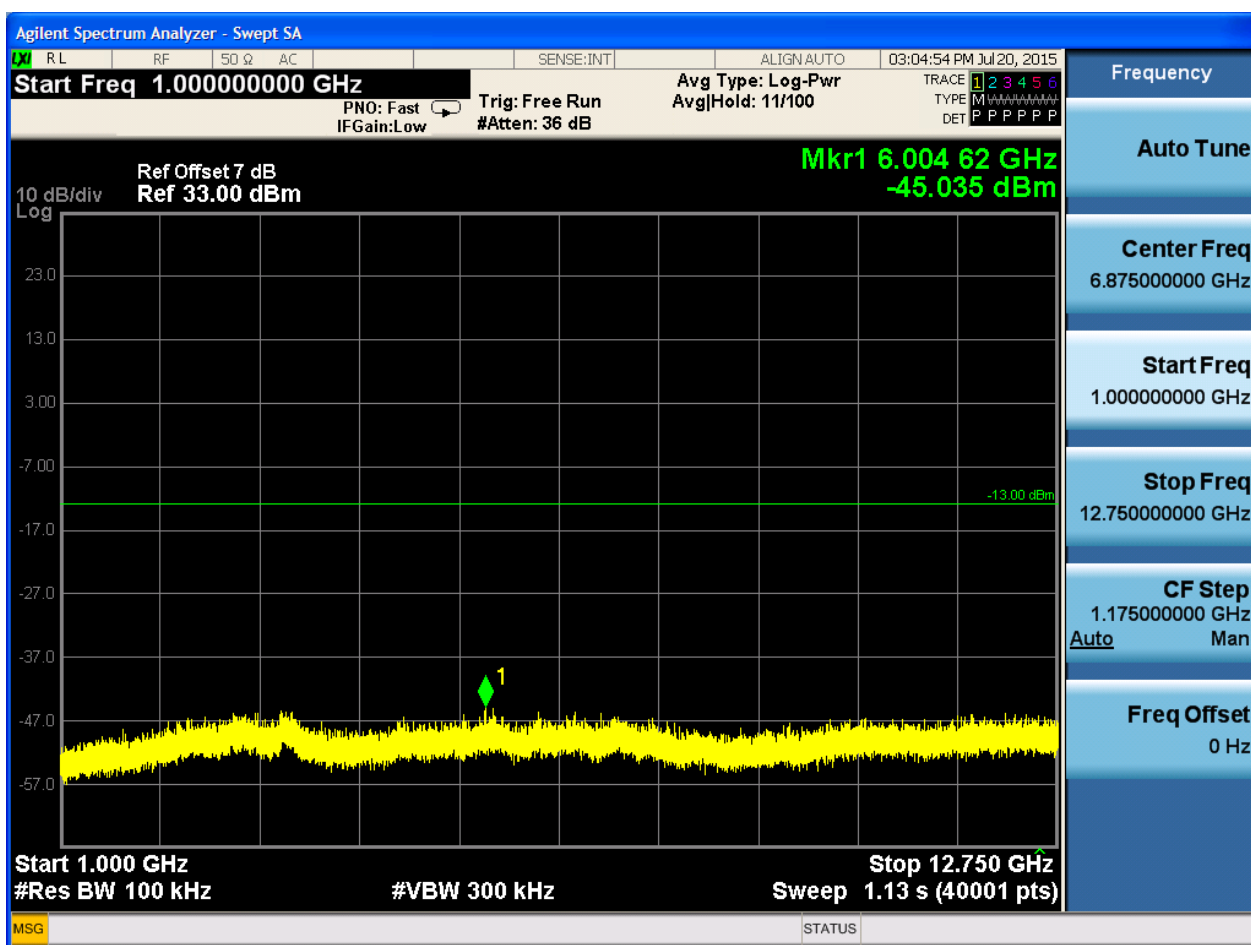


6.1.1.3.2 Test Channel = MCH

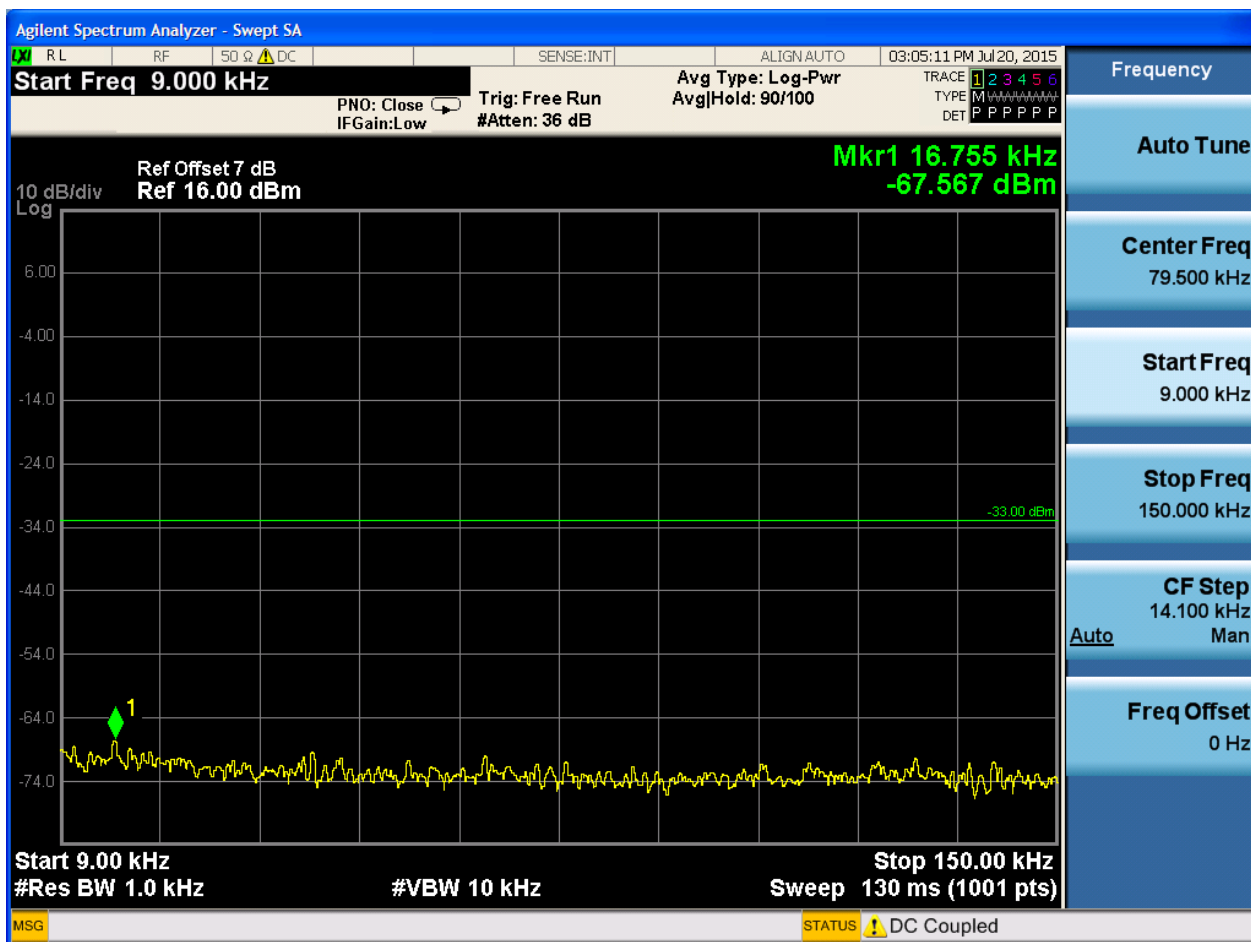


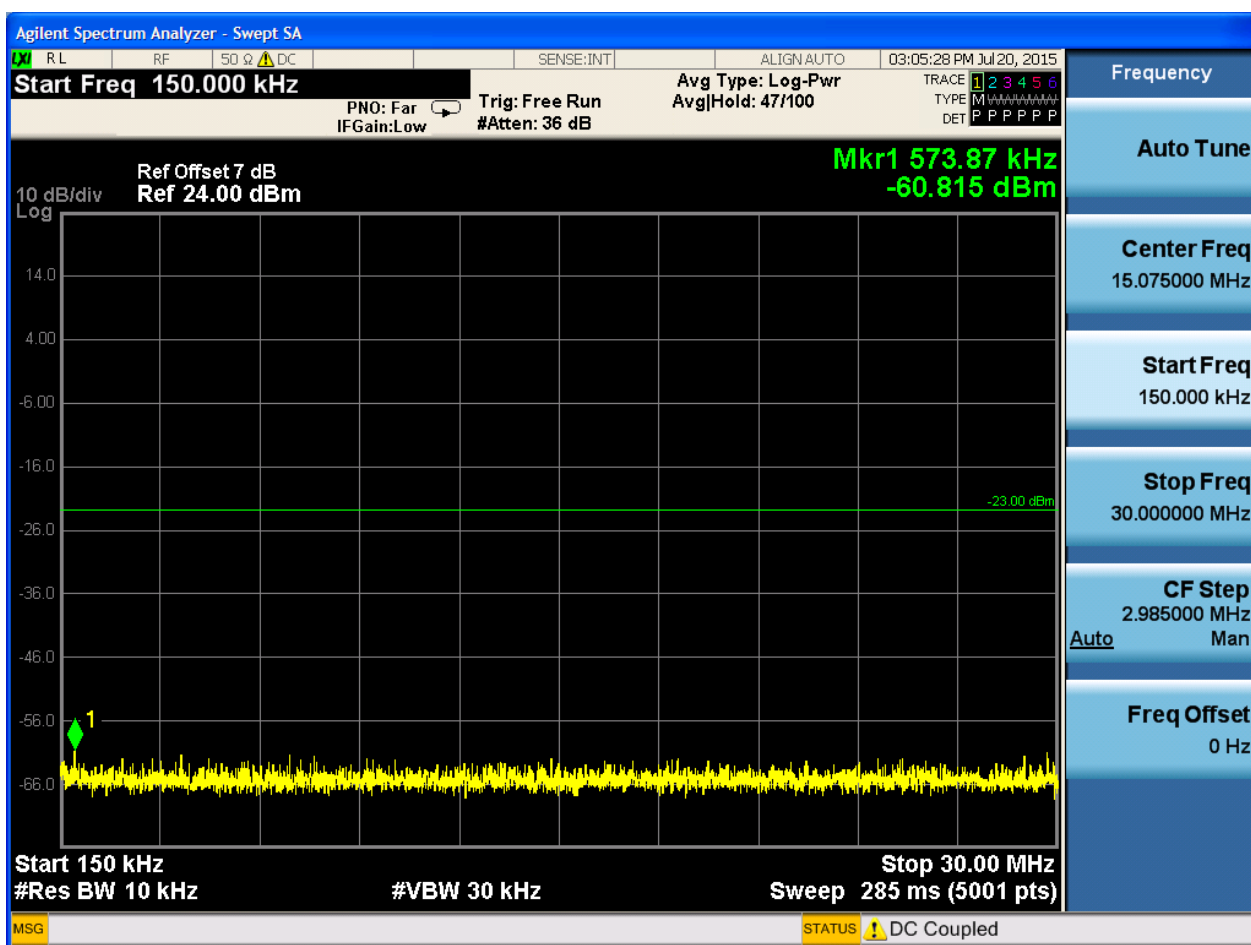


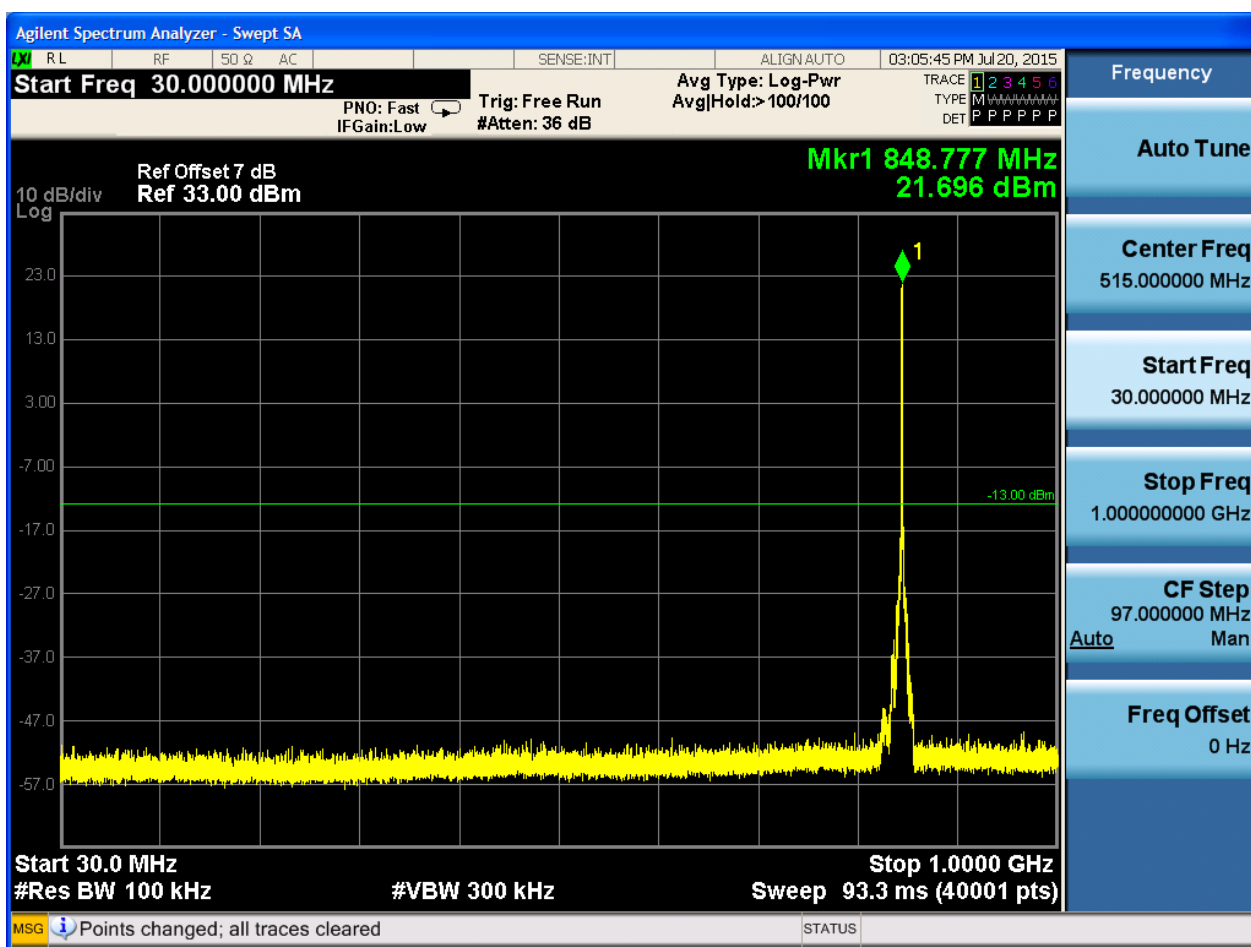


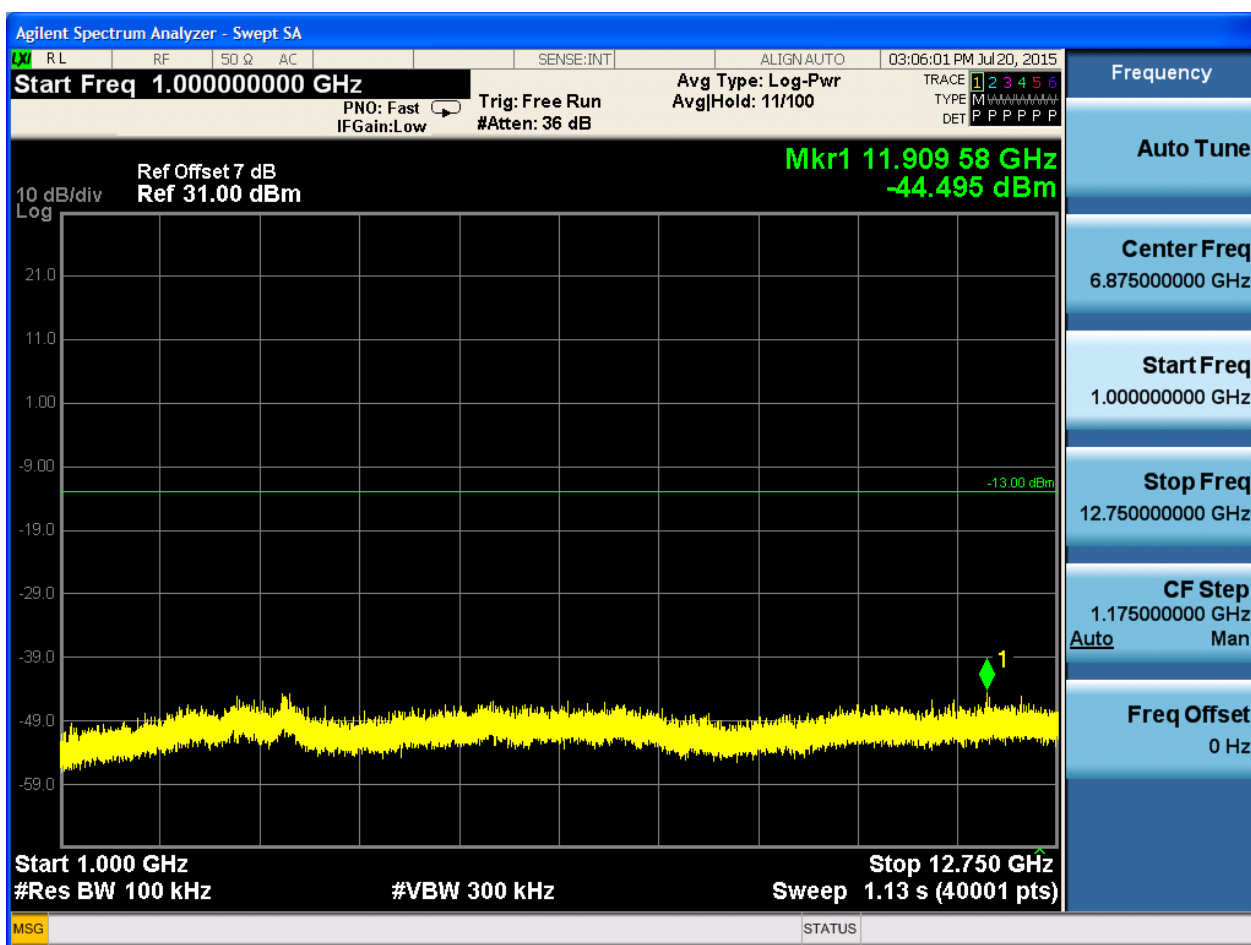


6.1.1.3.3 Test Channel = HCH



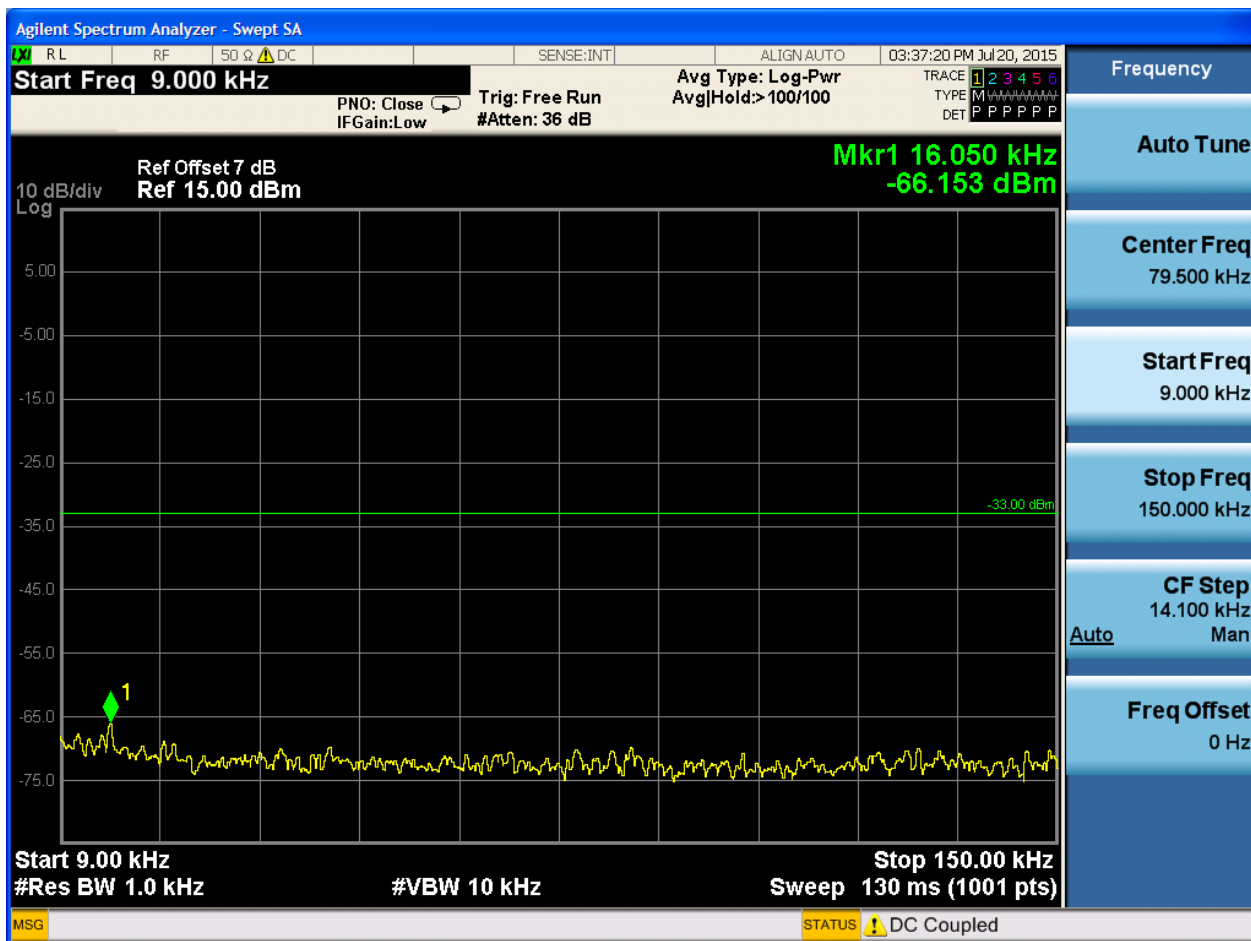


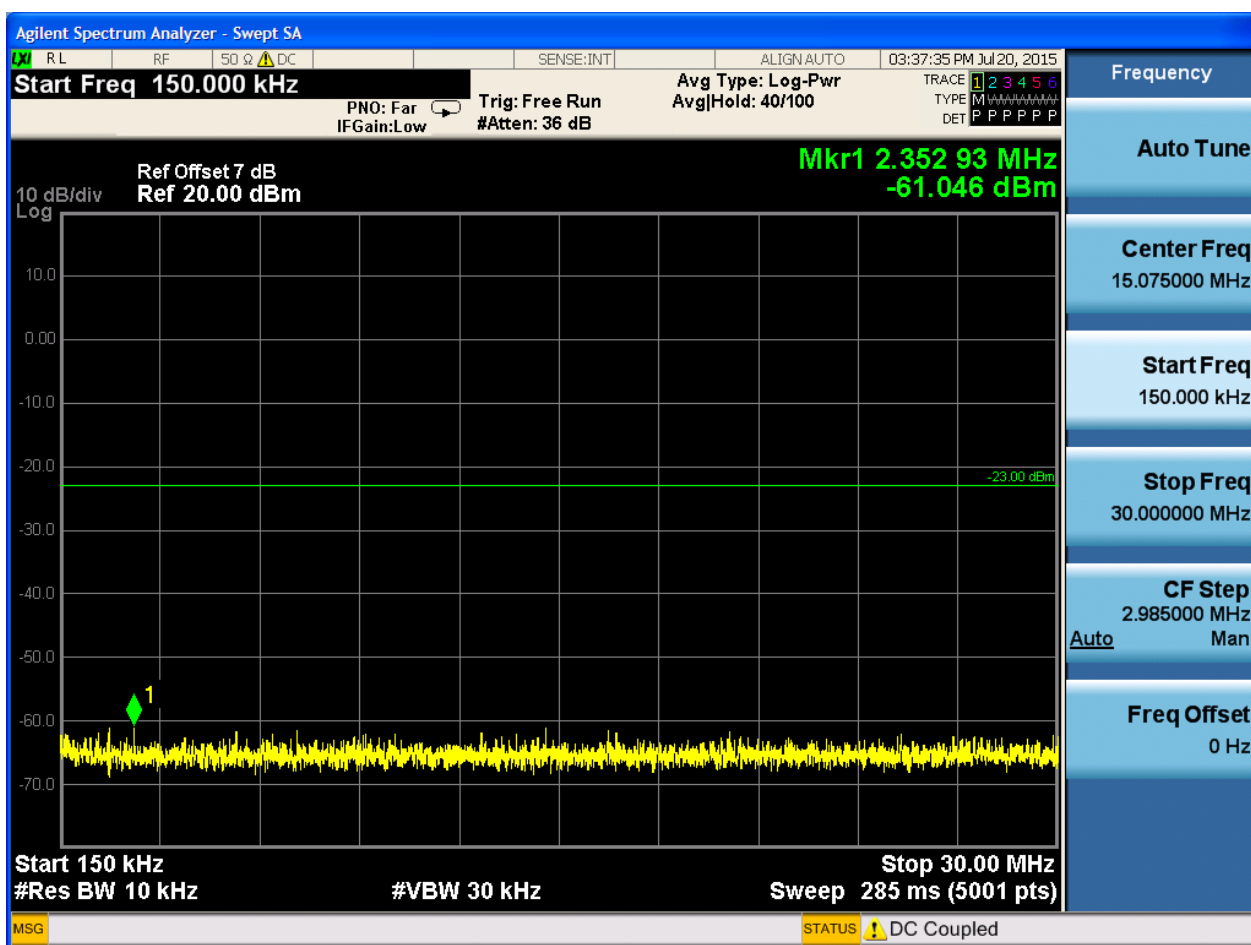


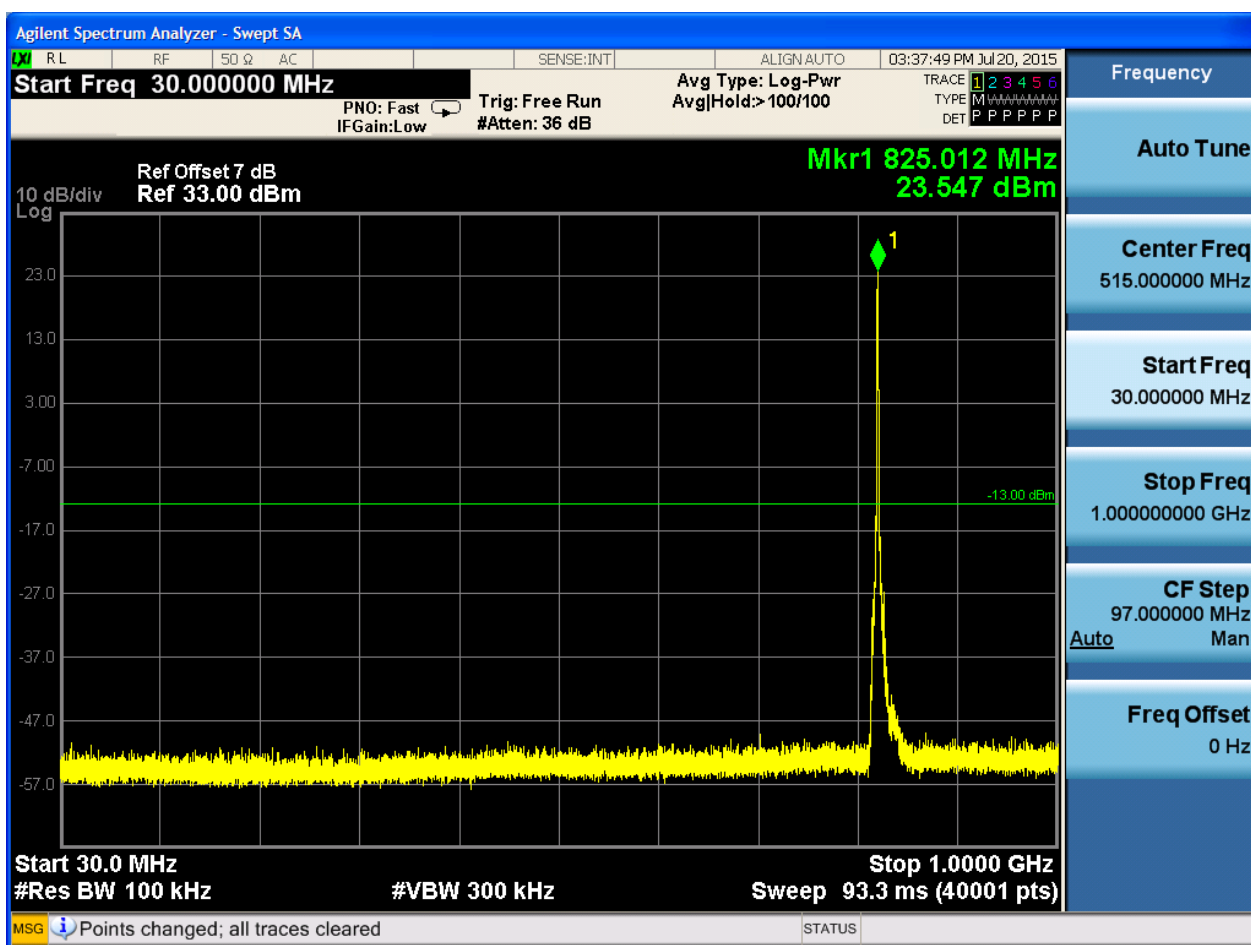


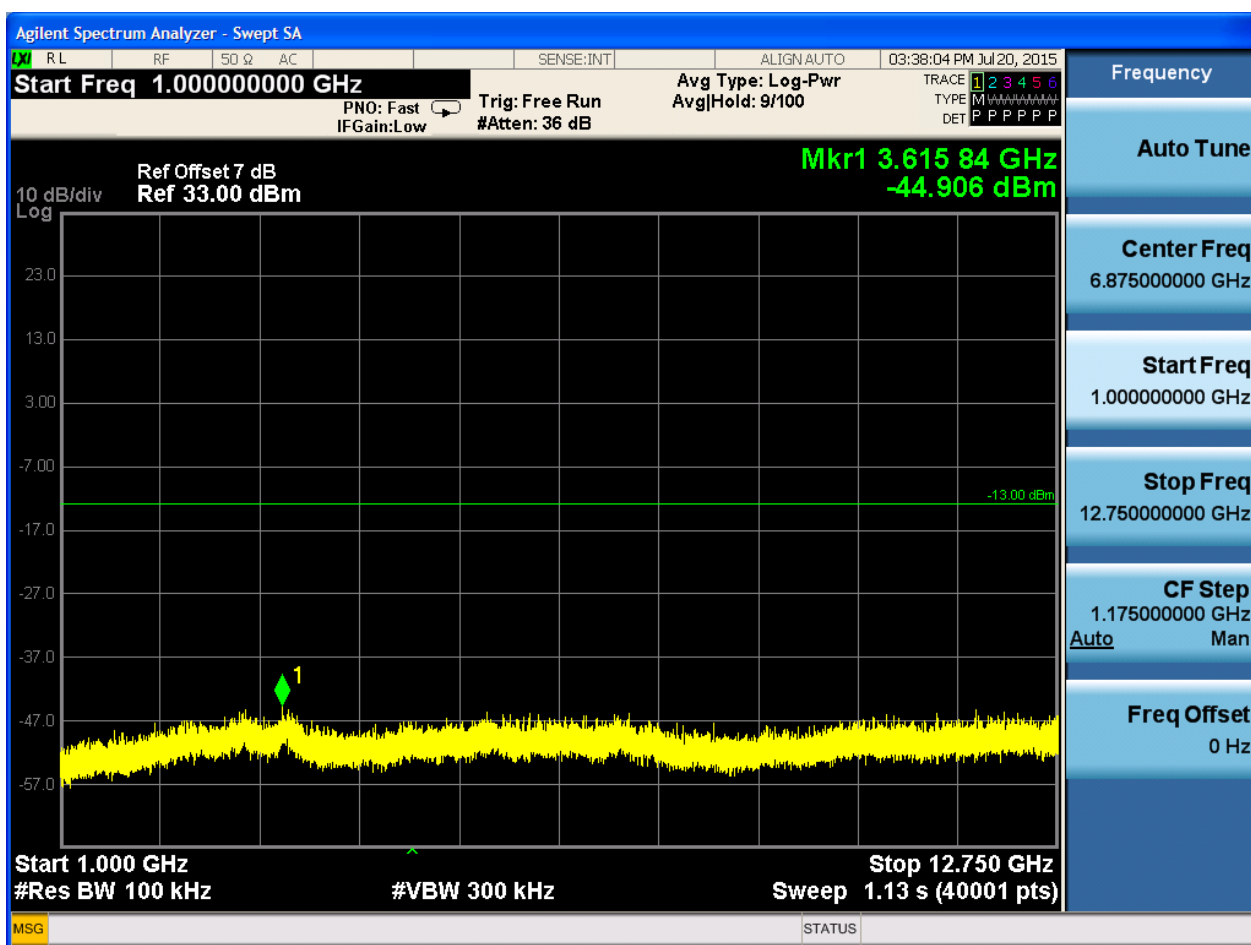
6.1.1.4 Test Mode = CDMA/EV-DO/Subtype2/256

6.1.1.4.1 Test Channel = LCH

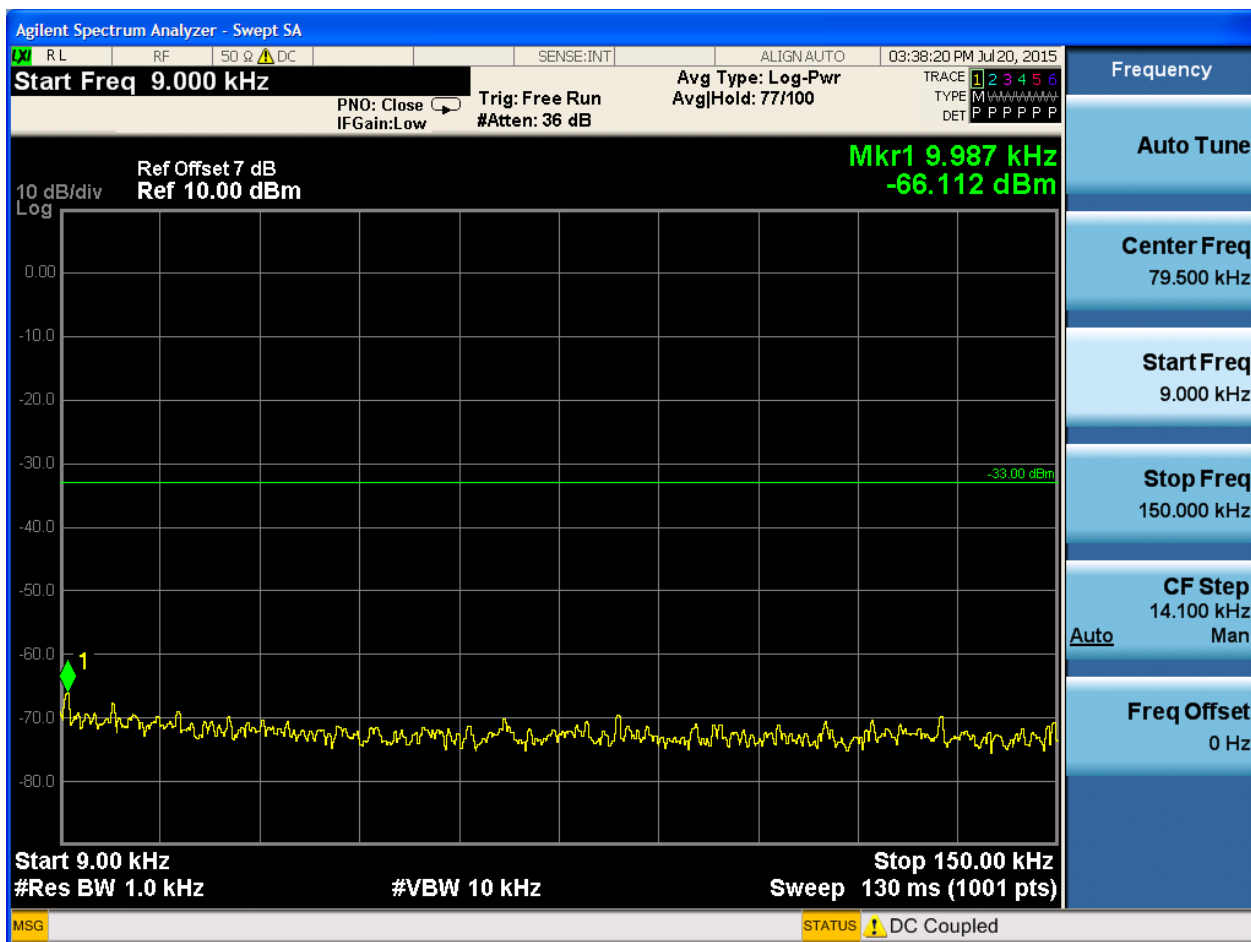


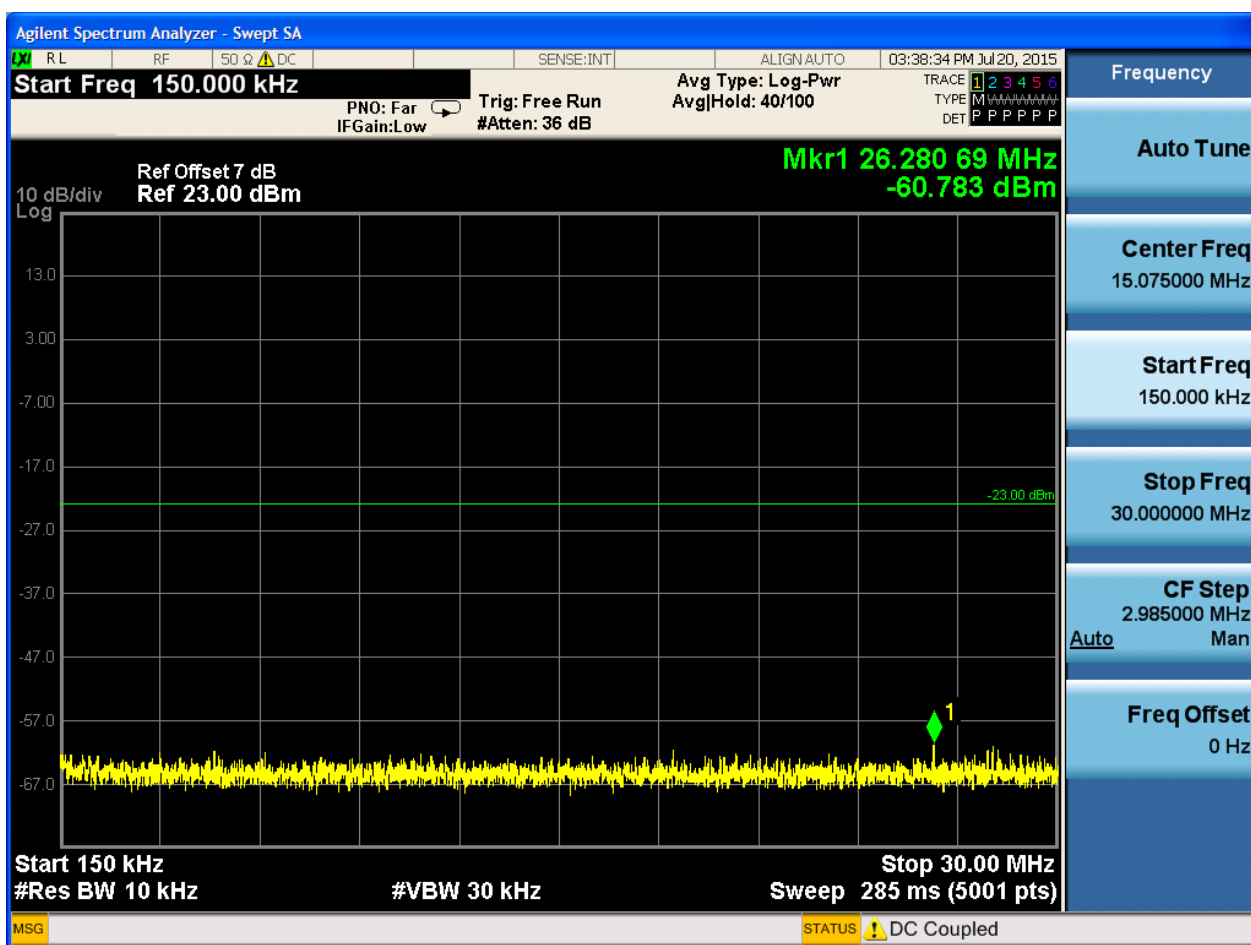


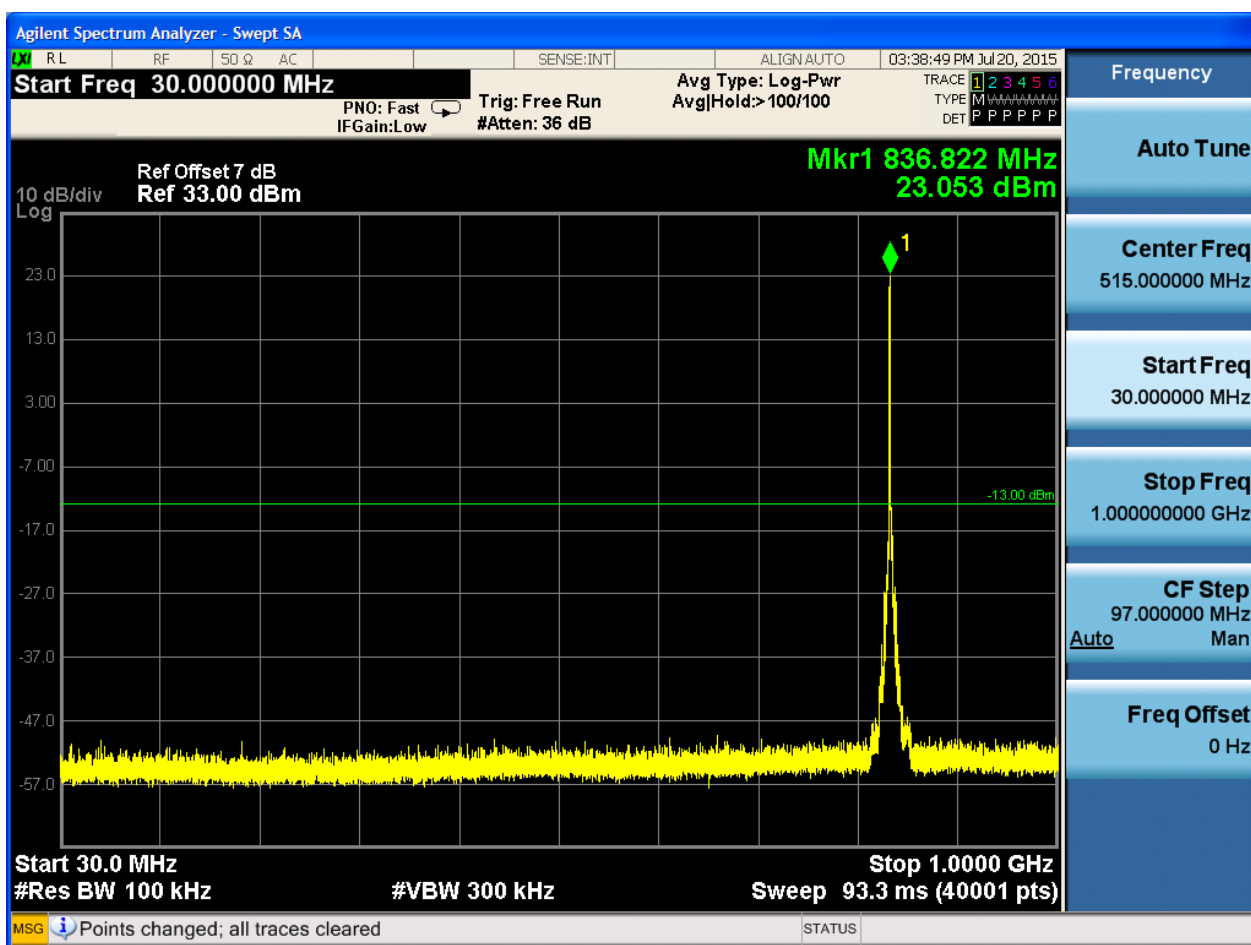


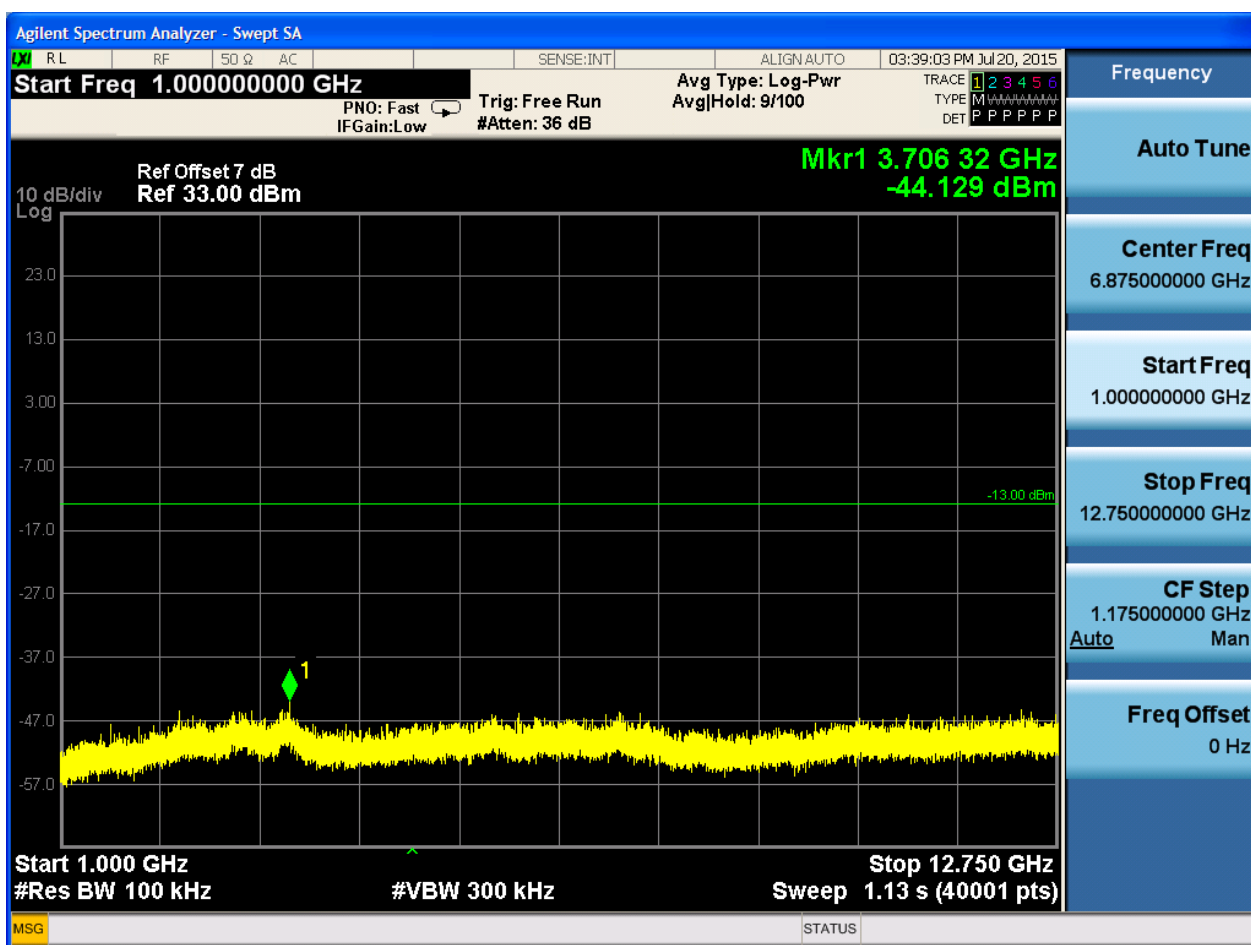


6.1.1.4.2 Test Channel = MCH

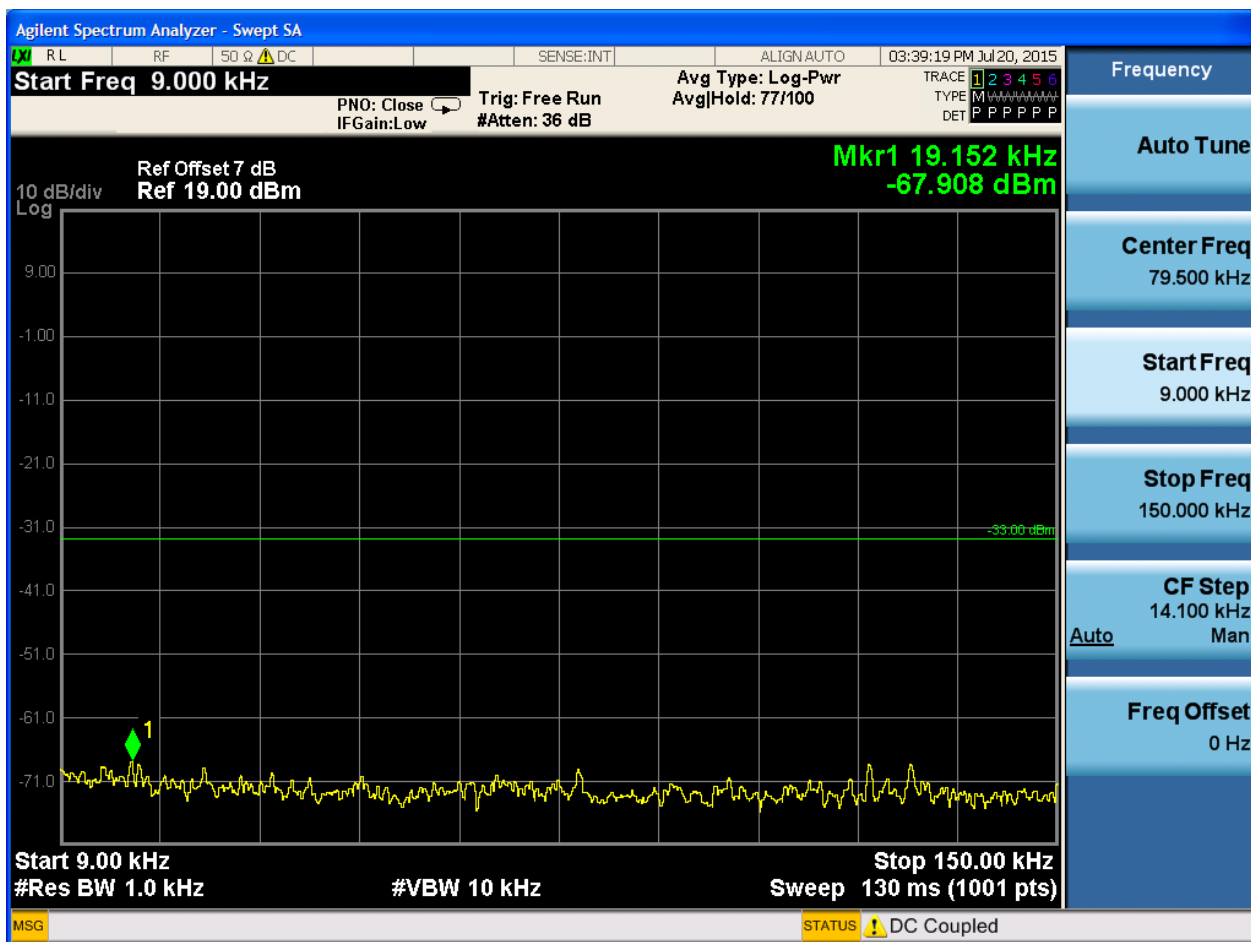


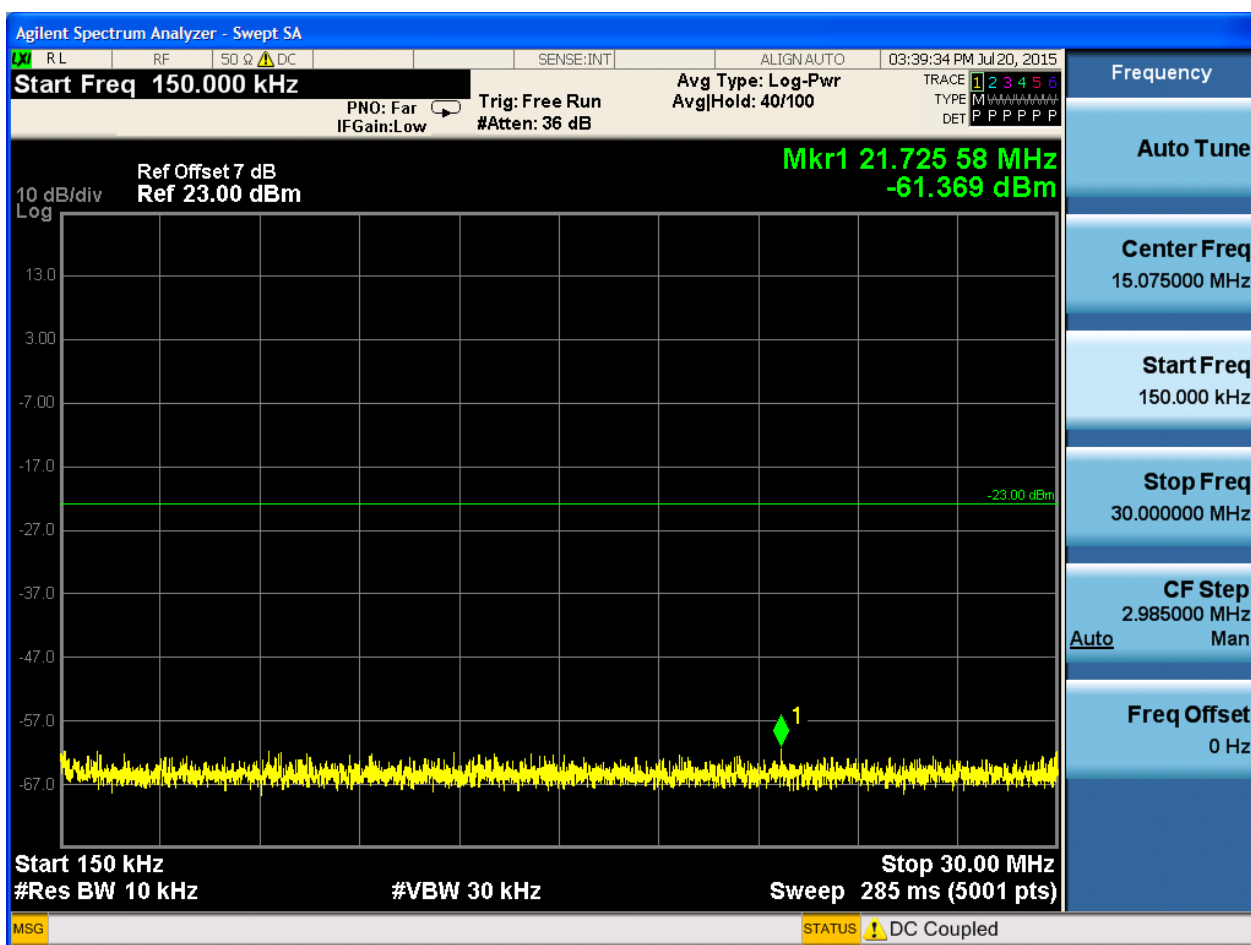


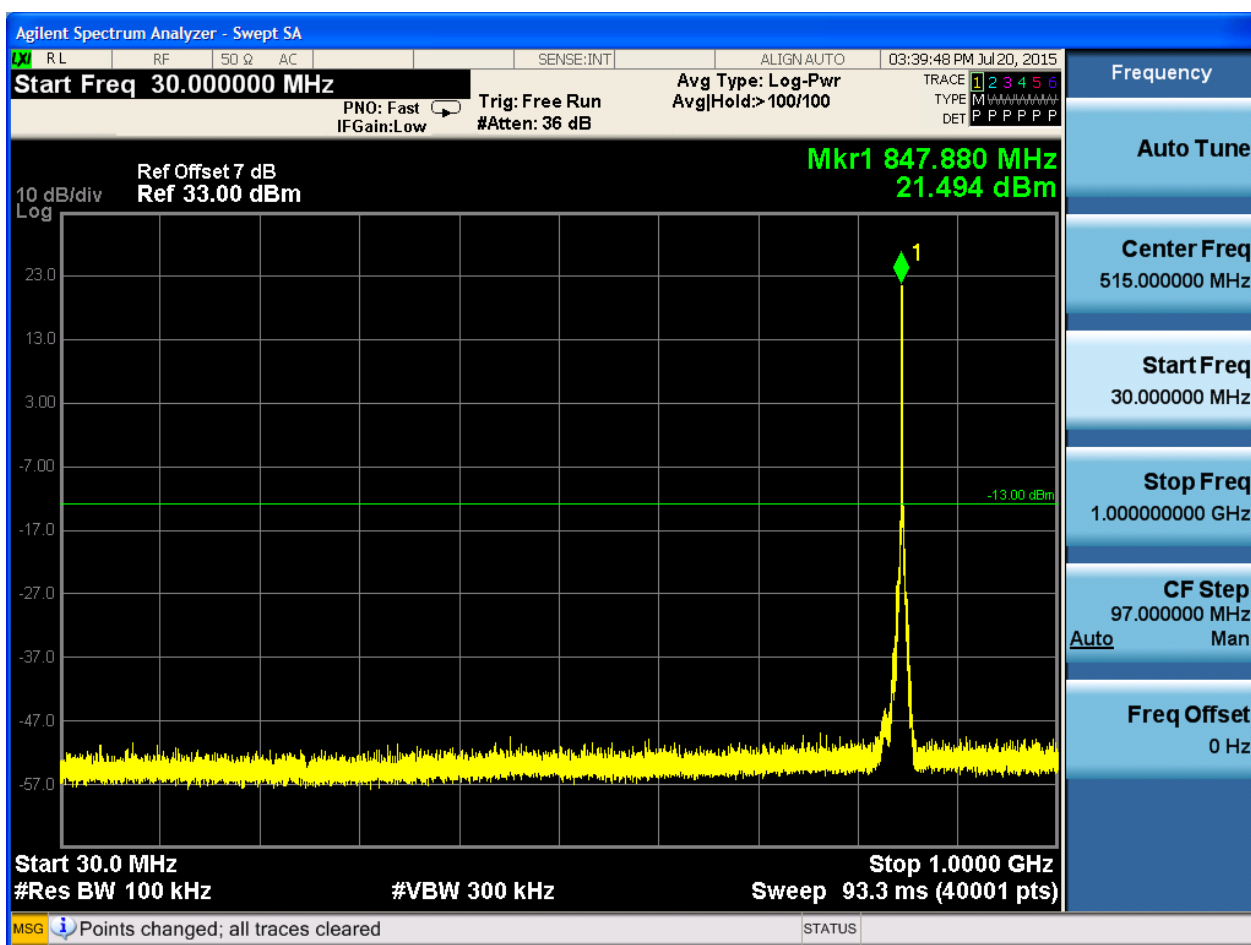


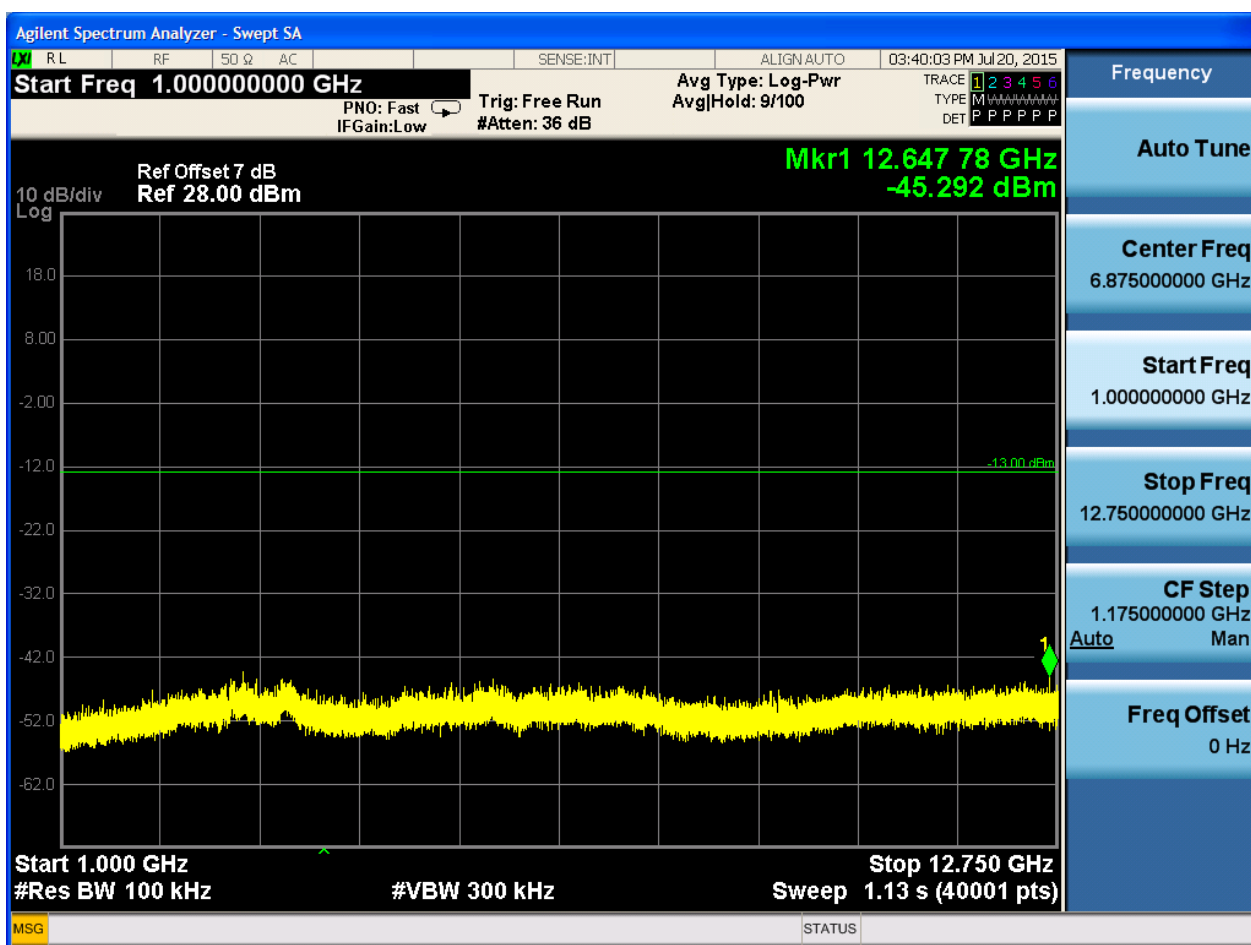


6.1.1.4.3 Test Channel = HCH









6.1.1.5 Test Mode = CDMA/EV-DO/Subtype2/4096

6.1.1.5.1 Test Channel = LCH

