



Appendix for test report



1 Appendix_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	23.14	20.07	38.5	PASS
		MCH	23.12	20.05	38.5	PASS
		HCH	23.21	20.14	38.5	PASS
	CDMA/1X/TM3	LCH	23.20	20.13	38.5	PASS
		MCH	23.24	20.17	38.5	PASS
		HCH	23.19	20.12	38.5	PASS
BC1	CDMA/1X/TM1	LCH	23.58	24.65	33	PASS
		MCH	23.53	24.6	33	PASS
		HCH	23.36	24.43	33	PASS
	CDMA/1X/TM3	LCH	23.49	24.56	33	PASS
		MCH	23.54	24.61	33	PASS
		HCH	23.37	24.44	33	PASS



Test Band	Test Mode	Test Channel	Measured[dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.64	29.57	38.5	PASS
		MCH	32.55	29.48	38.5	PASS
		HCH	32.57	29.5	38.5	PASS
	GSM/TM2	LCH	25.88	22.81	38.5	PASS
		MCH	25.85	22.78	38.5	PASS
		HCH	25.81	22.74	38.5	PASS
GSM1900	GSM/TM1	LCH	29.07	30.14	33	PASS
		MCH	28.96	30.03	33	PASS
		HCH	29.08	30.15	33	PASS
	GSM/TM2	LCH	24.35	25.42	33	PASS
		MCH	24.32	25.39	33	PASS
		HCH	24.31	25.38	33	PASS



Test Band	Test Mode	Test Channel	Measured [dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
WCDMA1900	UMTS/TM1	LCH	23.48	24.55	33	PASS
		MCH	23.37	24.44	33	PASS
		HCH	23.23	24.3	33	PASS
WCDMA850	UMTS/TM1	LCH	23.79	20.72	38.5	PASS
		MCH	23.68	20.61	38.5	PASS
		HCH	23.77	20.7	38.5	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	3.41	13	PASS
		MCH	3.26	13	PASS
		HCH	2.88	13	PASS
	CDMA/1X/TM3	LCH	2.98	13	PASS
		MCH	2.89	13	PASS
		HCH	2.52	13	PASS
BC1	CDMA/EV-DO/Subtype0	LCH	3.12	13	PASS
	CDMA/EV-DO/Subtype2	LCH	3.67	13	PASS
		MCH	3.41	13	PASS
		HCH	2.95	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	0.18	13	PASS
		MCH	0.16	13	PASS
		HCH	0.15	13	PASS
	GSM/TM2	LCH	3.37	13	PASS
		MCH	3.23	13	PASS
		HCH	3.18	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	2.9	13	PASS
		MCH	3.01	13	PASS
		HCH	2.93	13	PASS

3Appendix_C: Modulation Characteristics

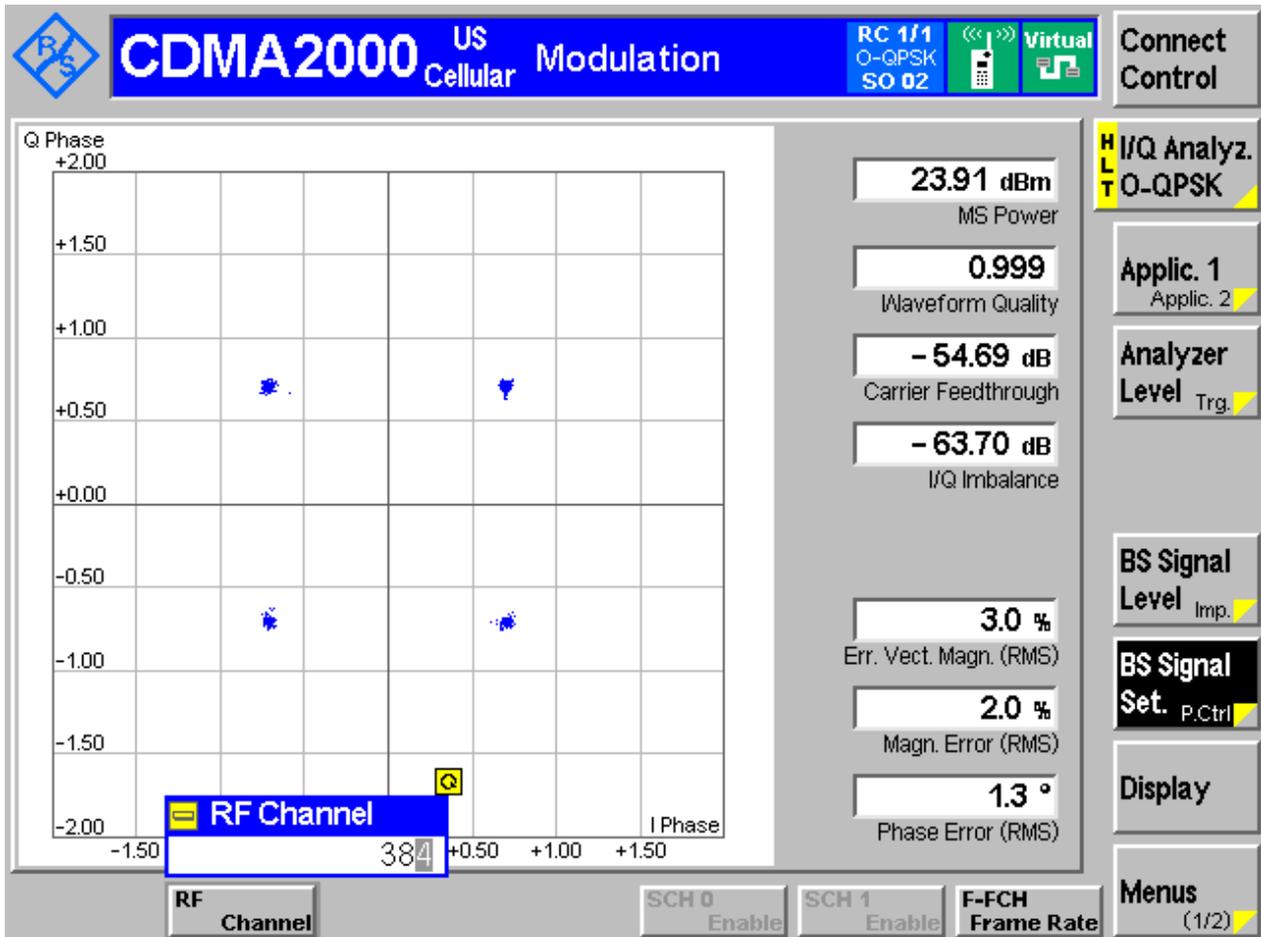
Part I - Test Plots

3.1 For CDMA

3.1.1 Test Band = BC0

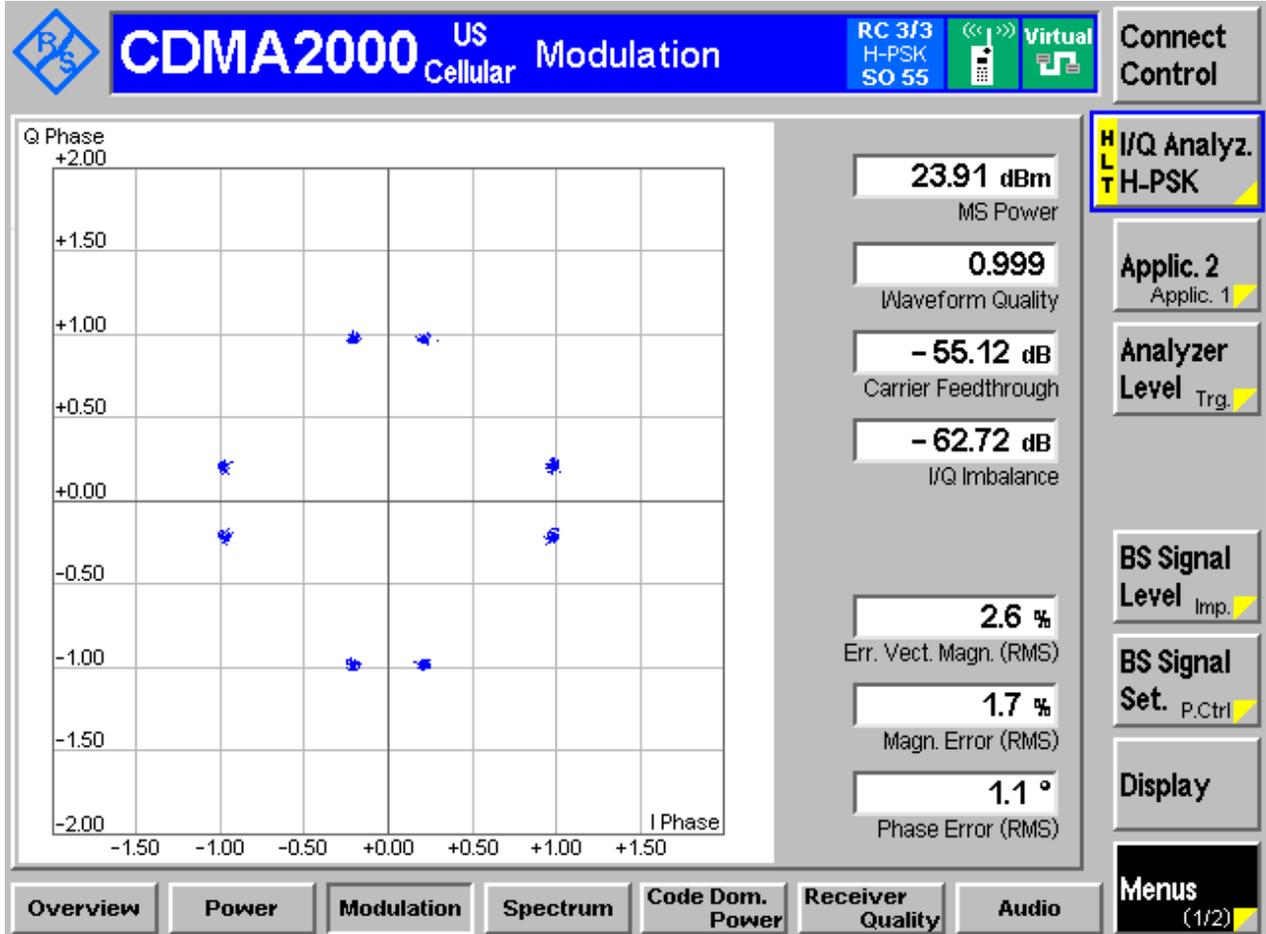
3.1.1.1 Test Mode = CDMA/1X/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = CDMA/1X/TM3

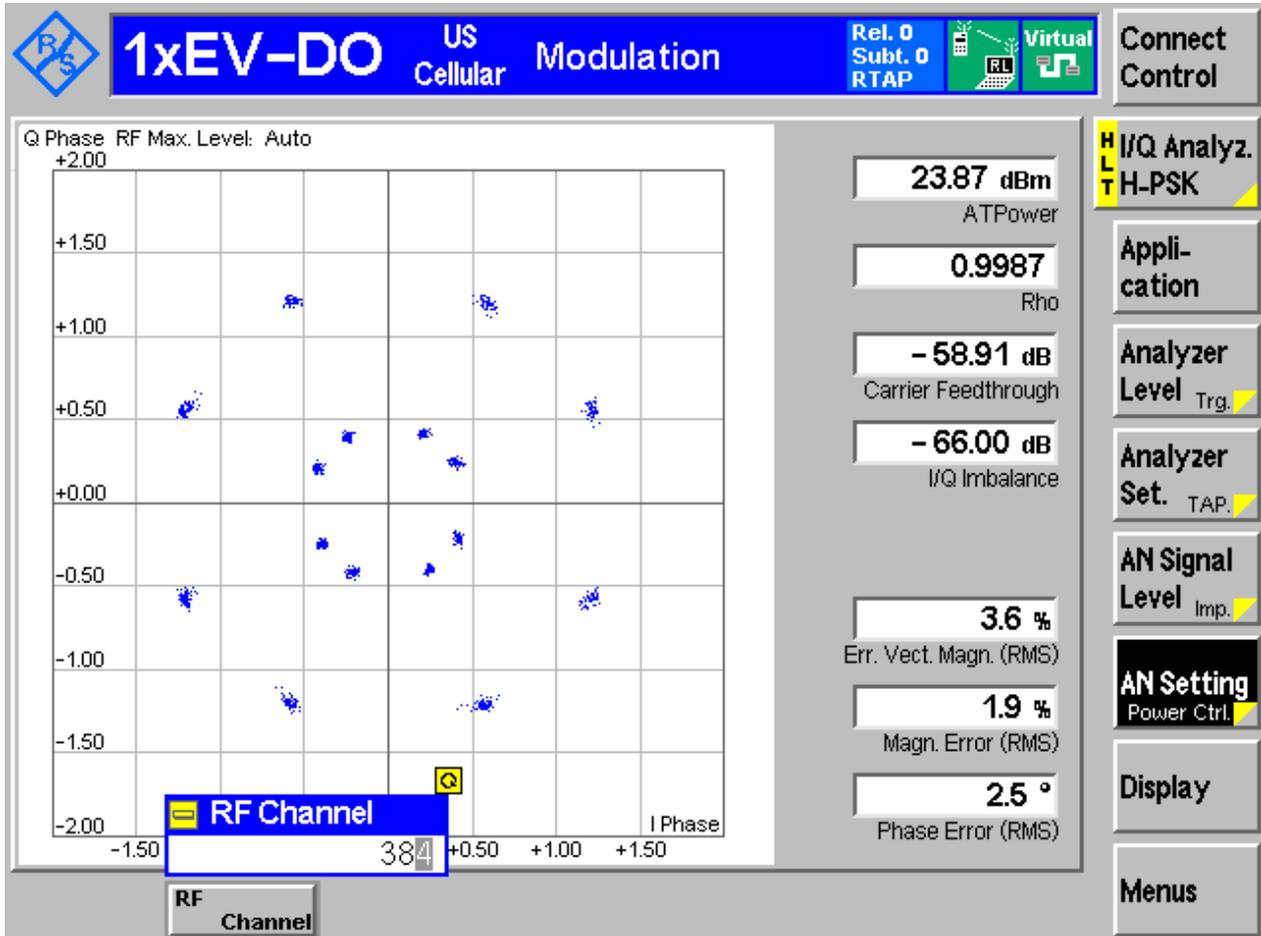
3.1.1.2.1 Test Channel = MCH





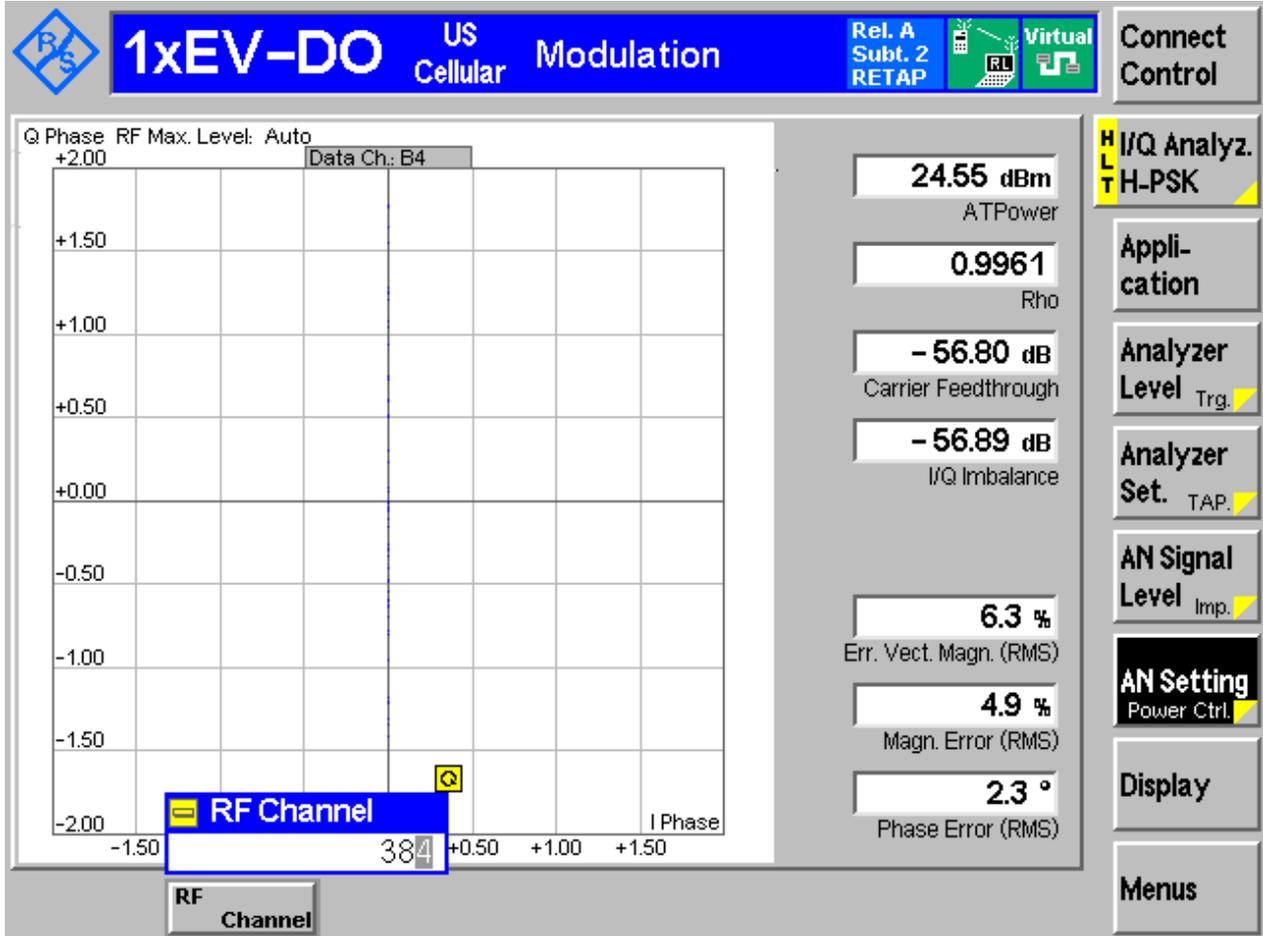
3.1.1.3 Test Mode = CDMA/EV-DO/Subtype0

3.1.1.3.1 Test Channel = MCH



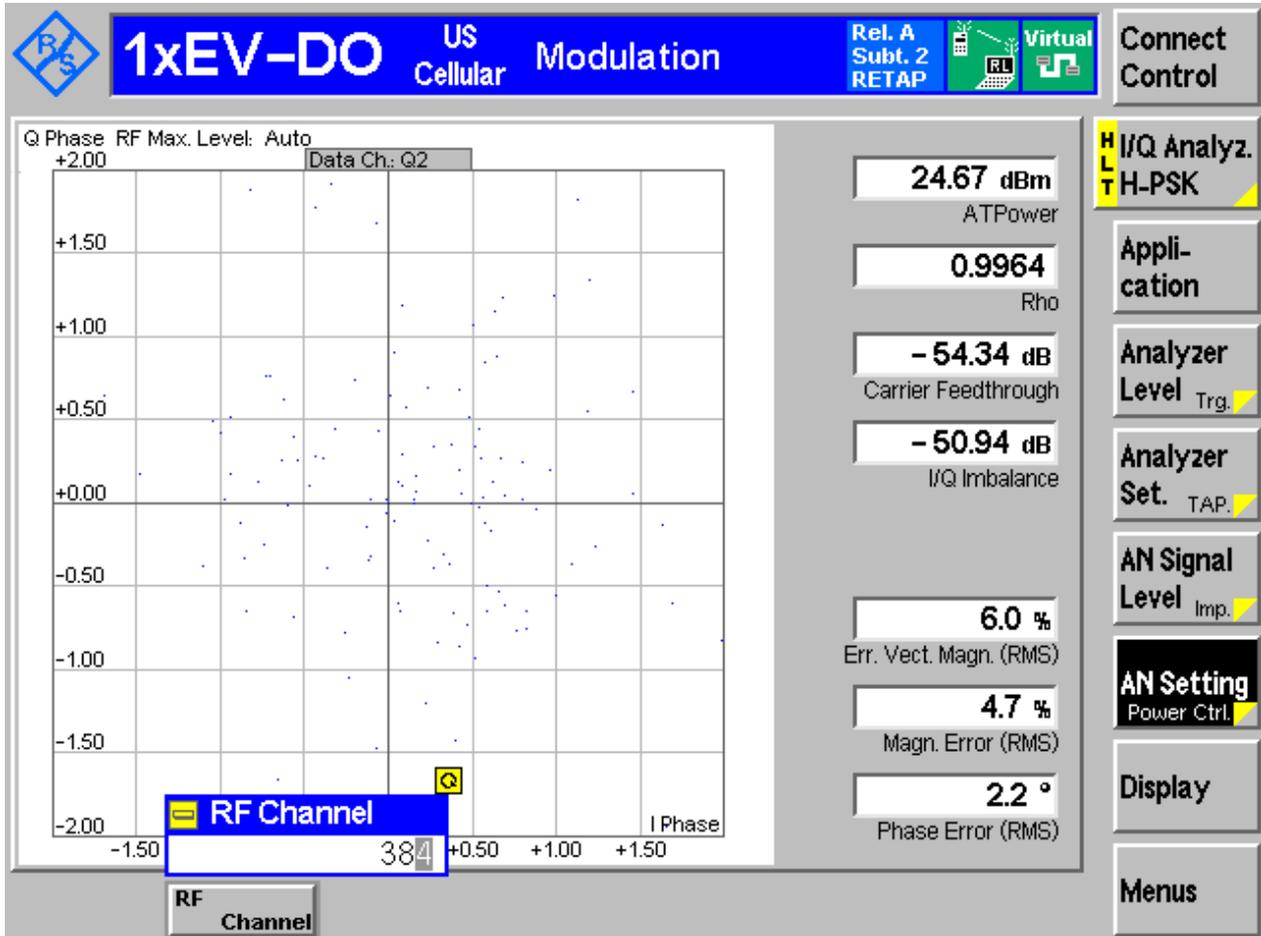
3.1.1.4 Test Mode = CDMA/EV-DO/Subtype2/256

3.1.1.4.1 Test Channel = MCH



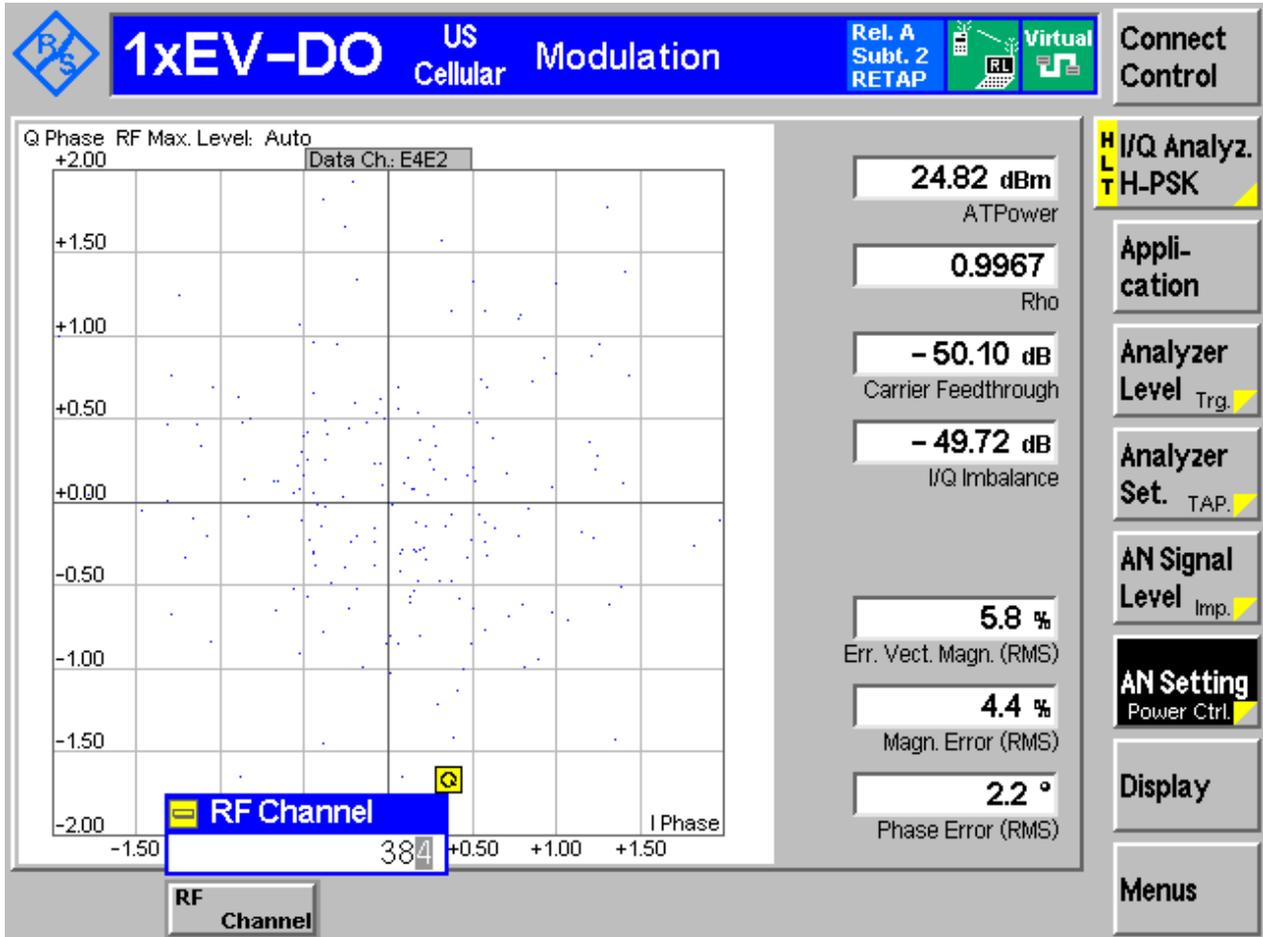
3.1.1.5 Test Mode = CDMA/EV-DO/Subtype2/4096

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

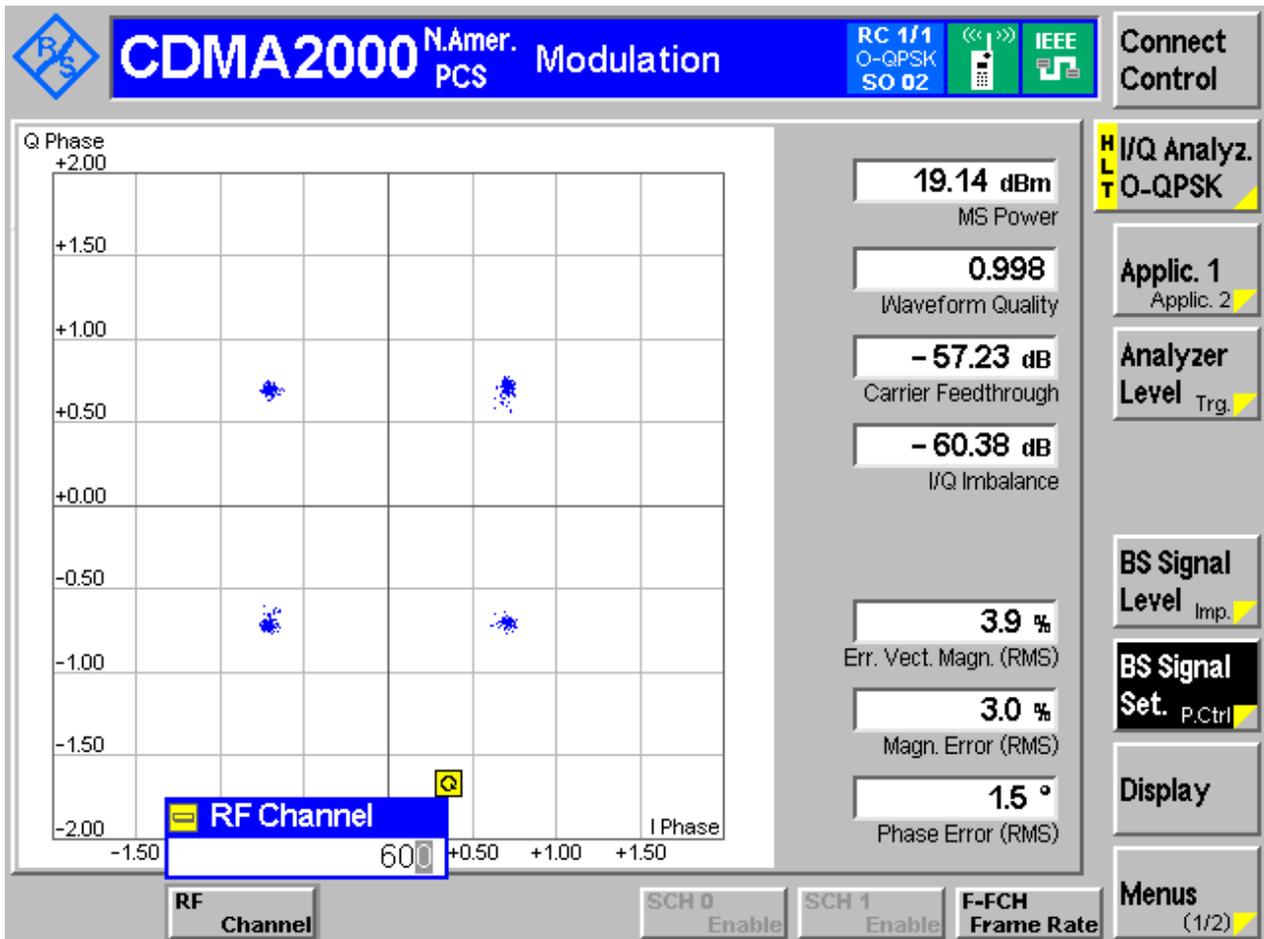




3.1.2 Test Band = BC1

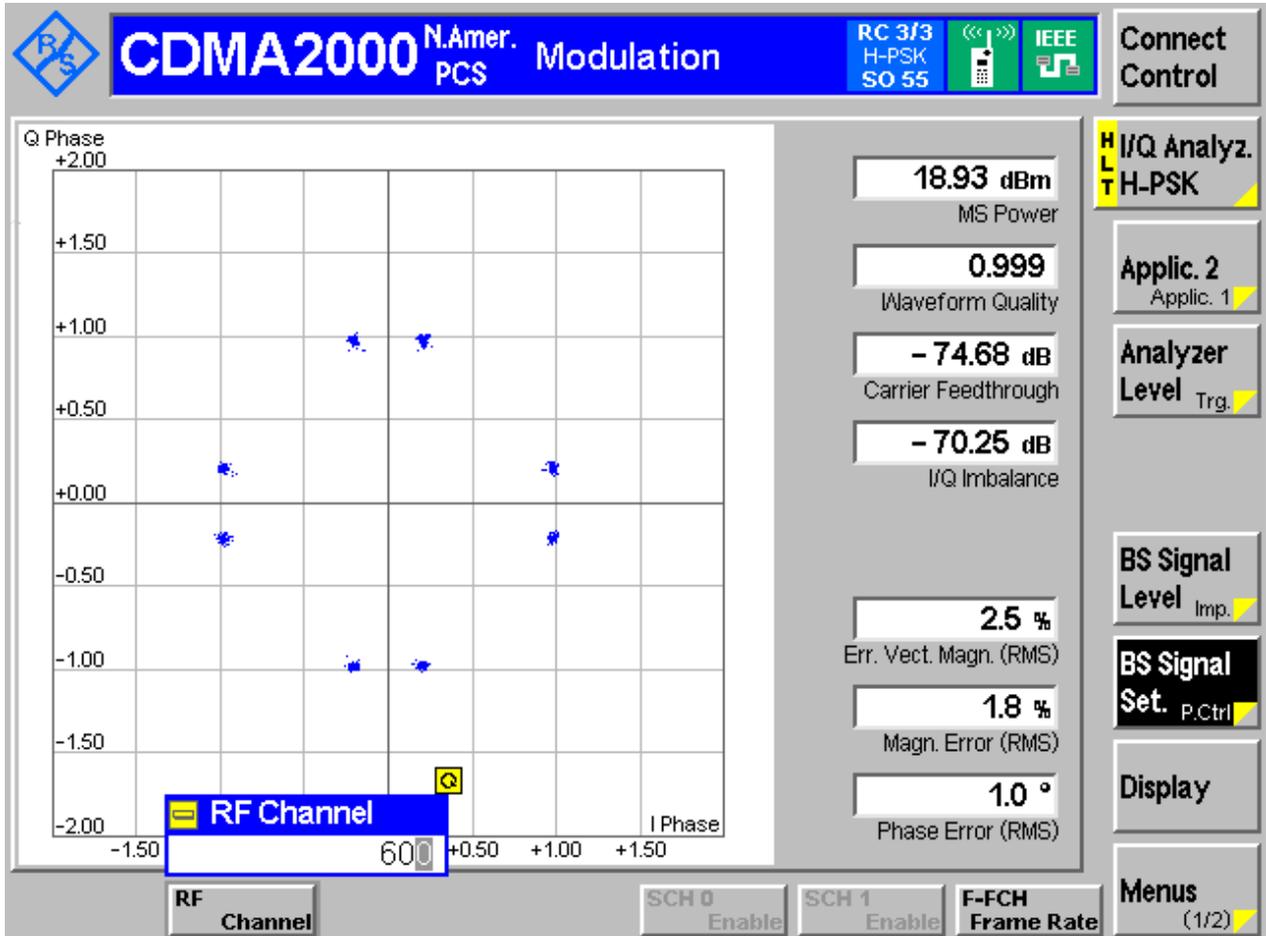
3.1.2.1 Test Mode = CDMA/1X/TM1

3.1.2.1.1 Test Channel = MCH



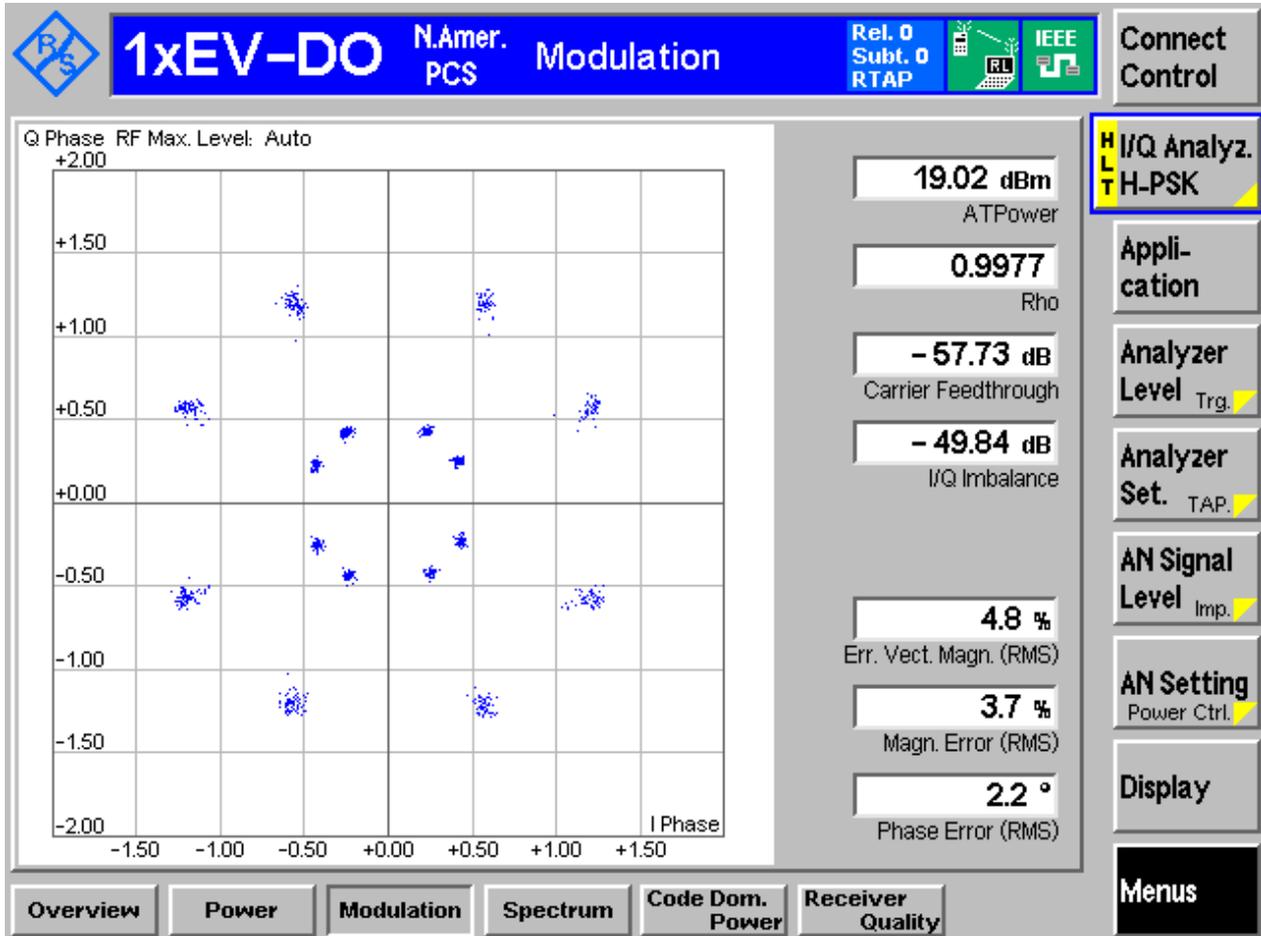
3.1.2.2 Test Mode = CDMA/1X/TM3

3.1.2.2.1 Test Channel = MCH



3.1.2.3 Test Mode = CDMA/EV-DO/Subtype0

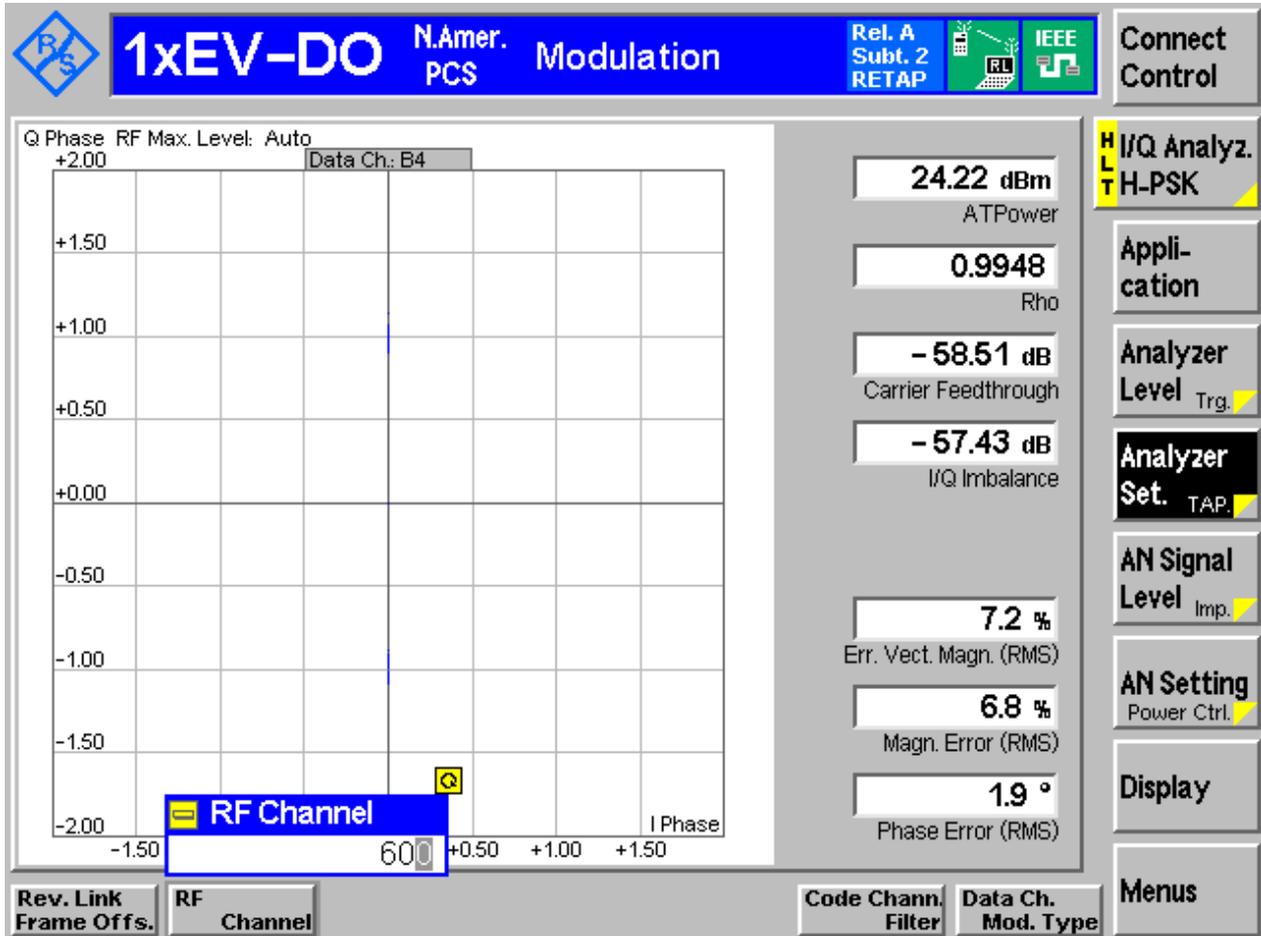
3.1.2.3.1 Test Channel = MCH





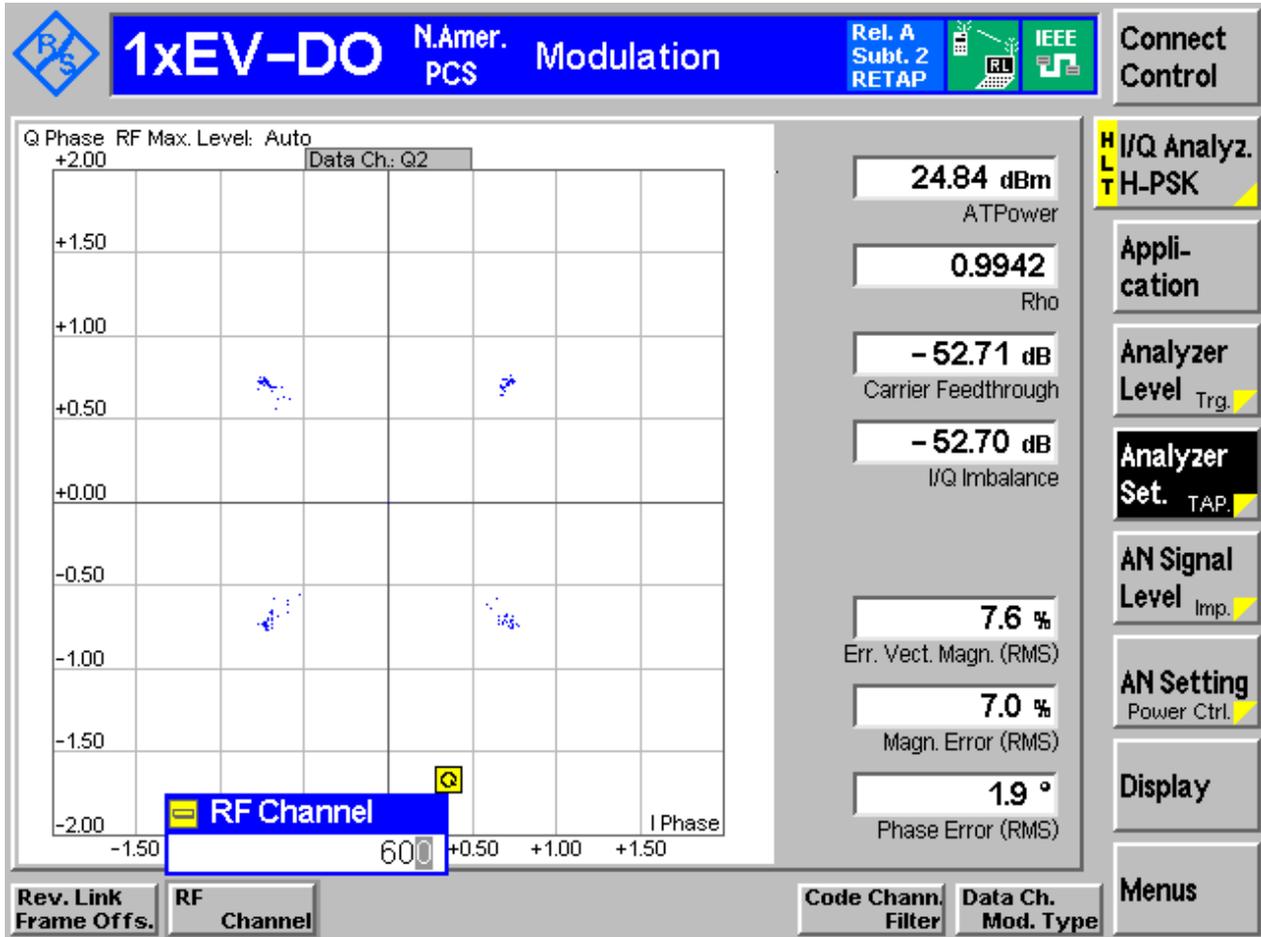
3.1.2.4 Test Mode = CDMA/EV-DO/Subtype2/256

3.1.2.4.1 Test Channel = MCH



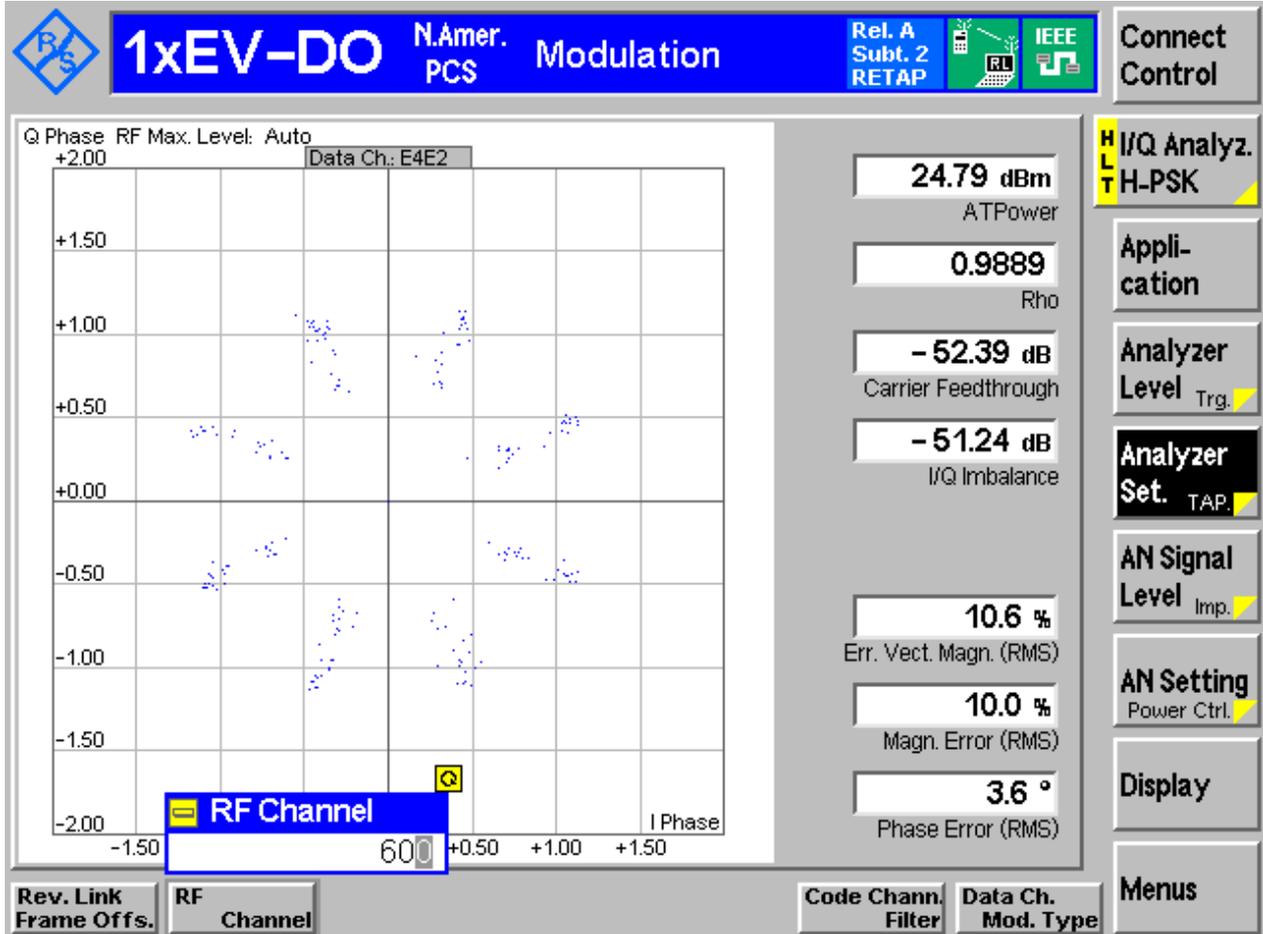
3.1.2.5 Test Mode = CDMA/EV-DO/Subtype2/4096

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

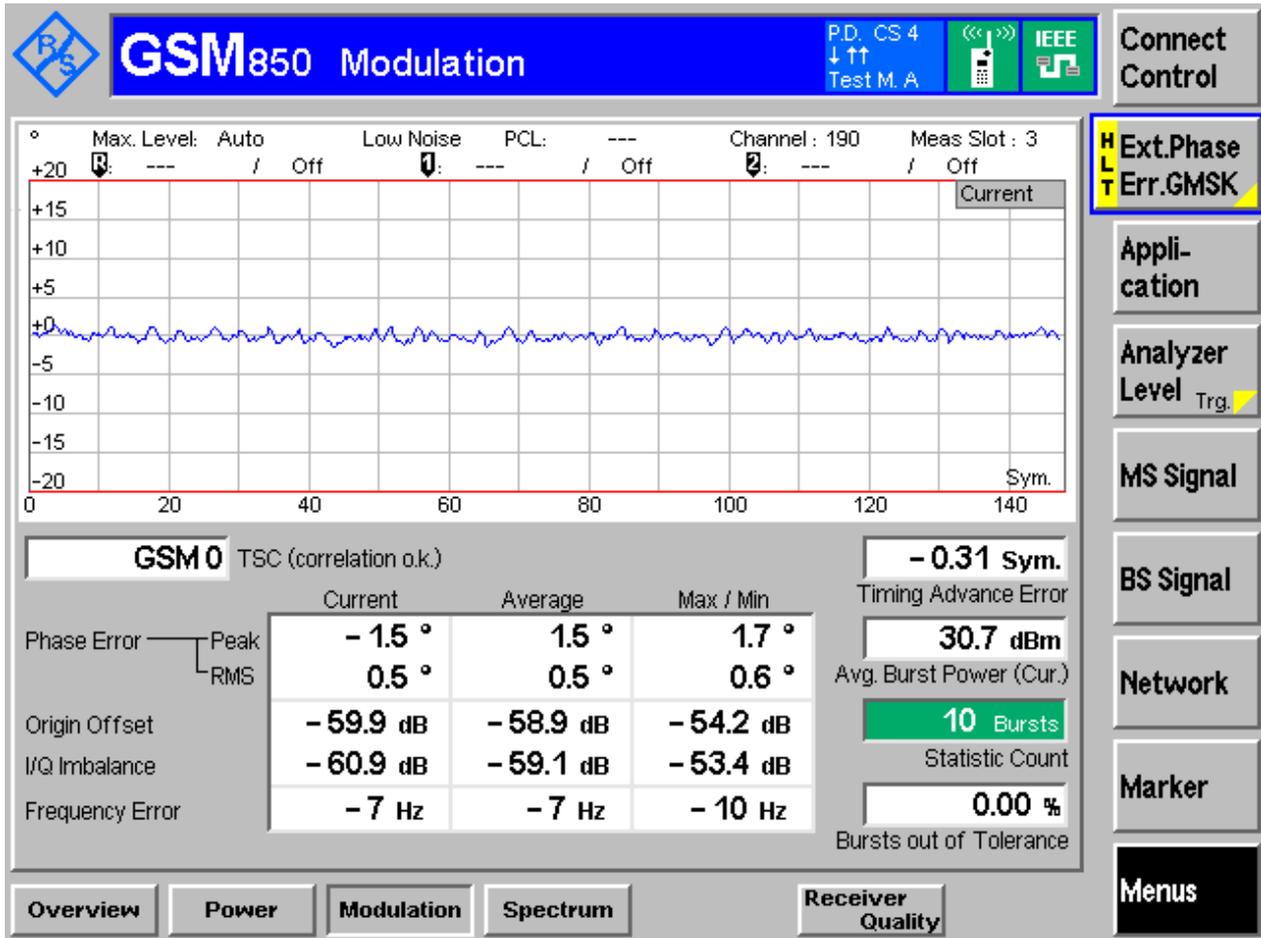


3.2 For GSM

3.2.1 Test Band = GSM850

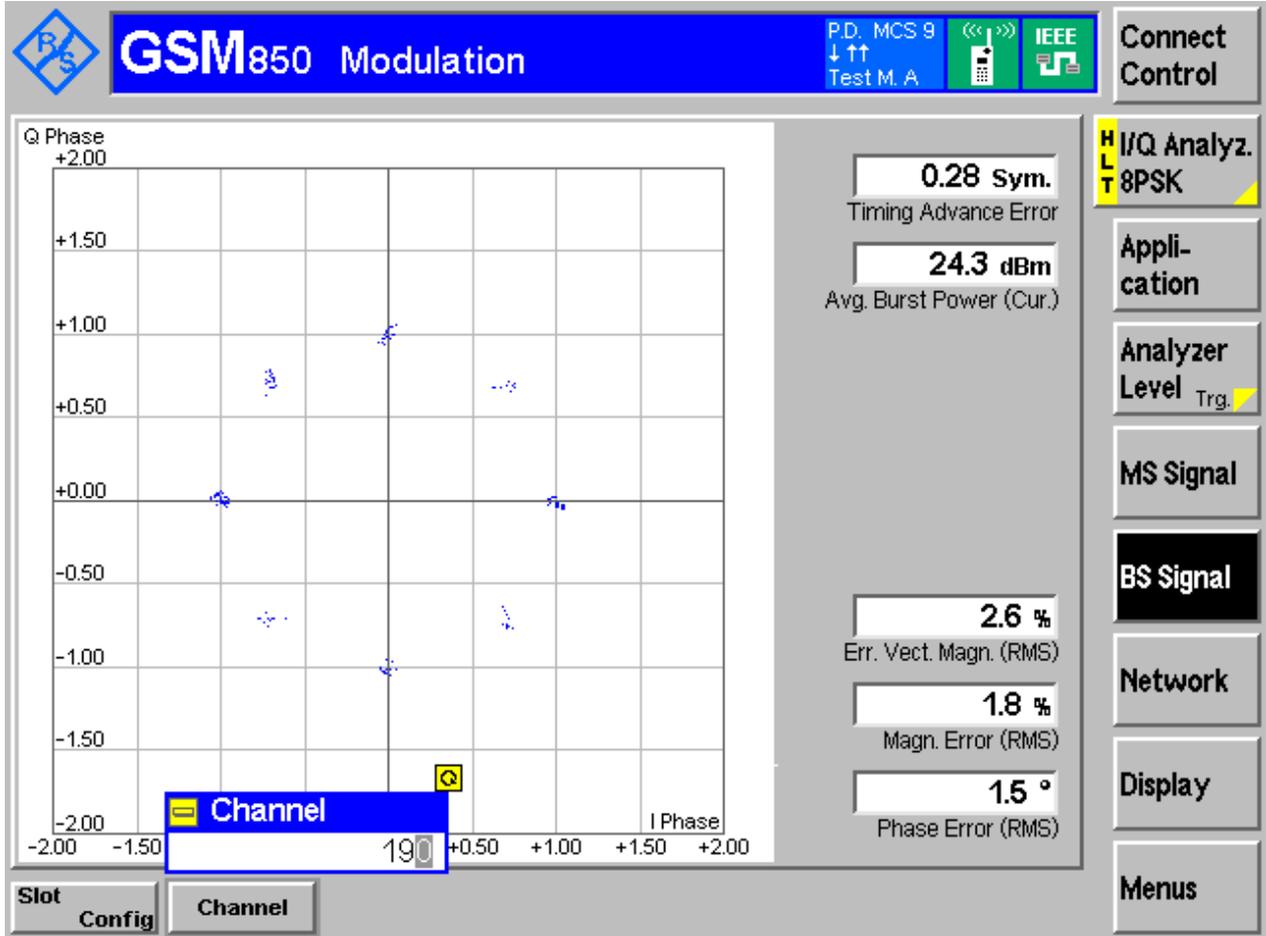
3.2.1.1 Test Mode = GSM/TM2

3.2.1.1.1 Test Channel = MCH



3.2.1.2 Test Mode = GSM/TM2

3.2.1.2.1 Test Channel = MCH

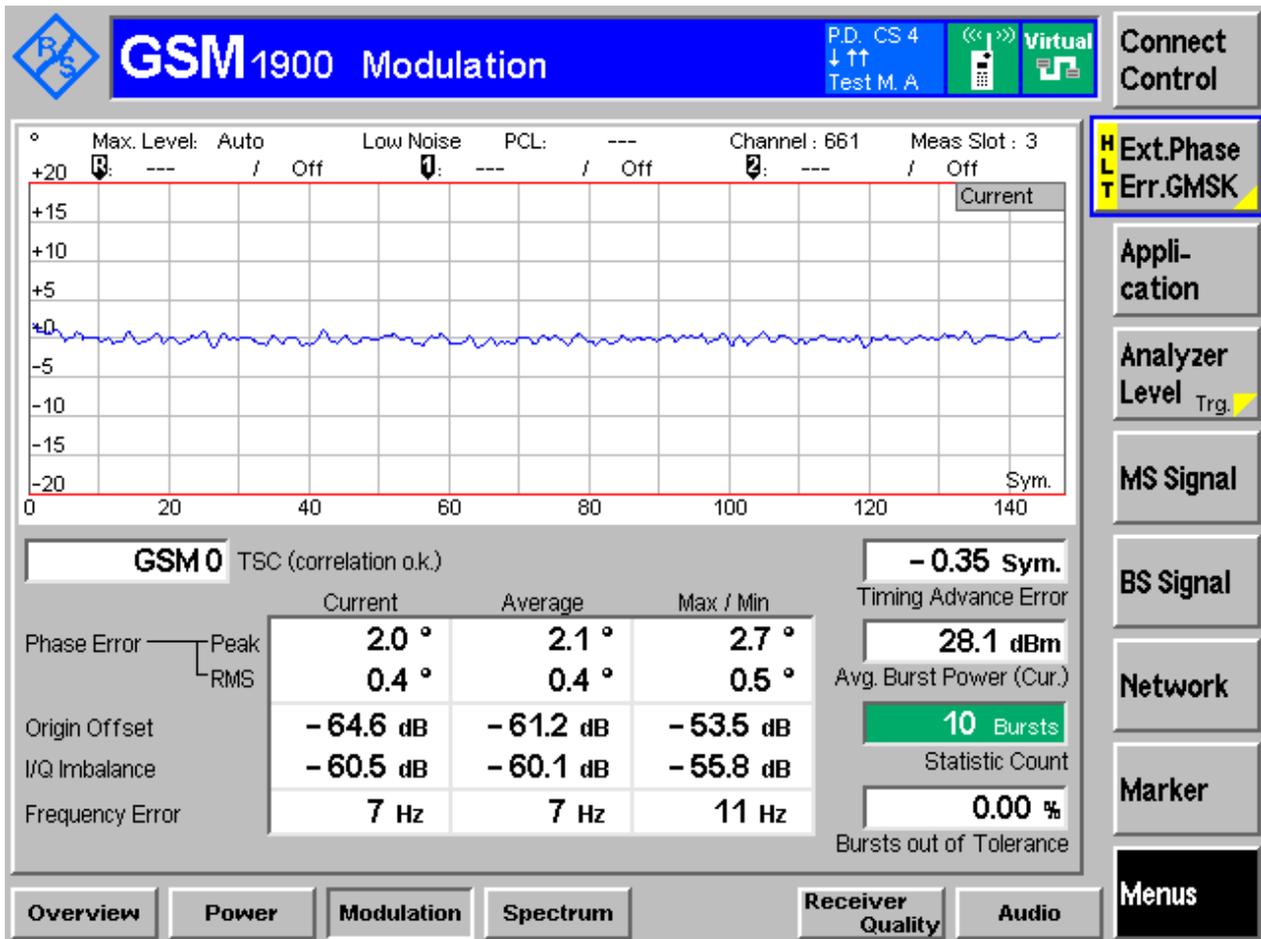




3.2.2 Test Band = GSM1900

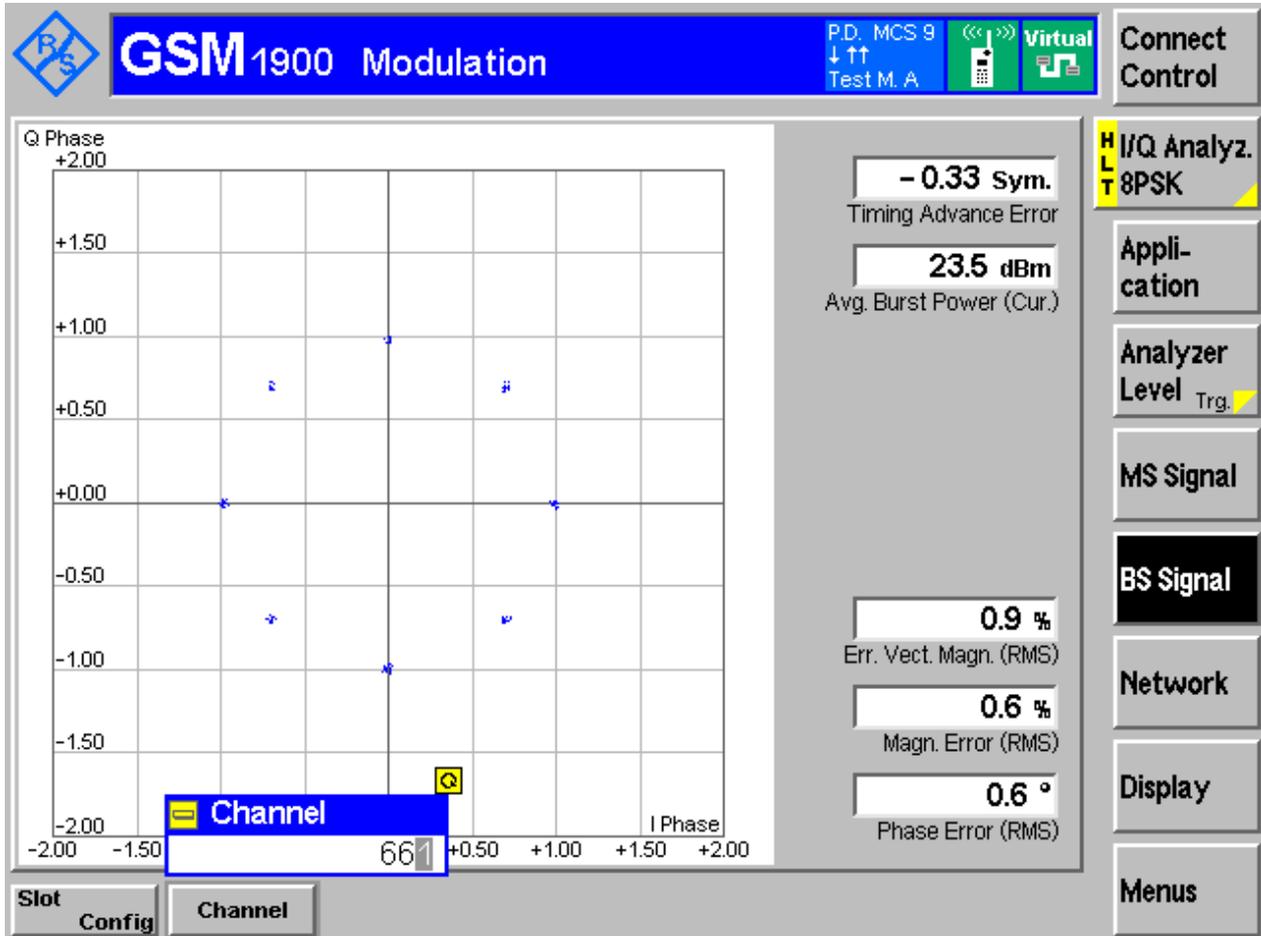
3.2.2.1 Test Mode = GSM/TM1

3.2.2.1.1 Test Channel = MCH



3.2.2.2 Test Mode = GSM/TM2

3.2.2.2.1 Test Channel = MCH

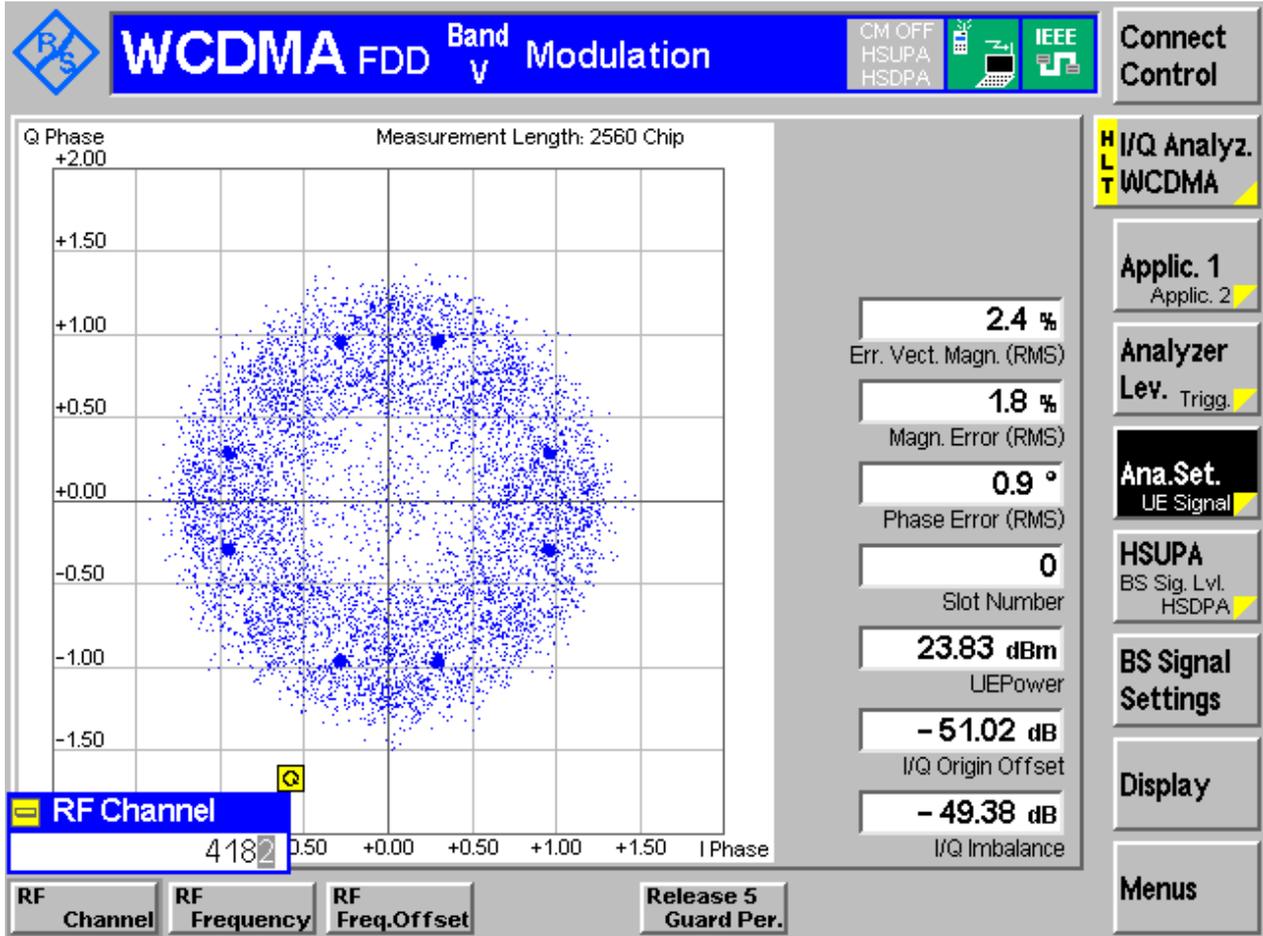


3.3 For UMTS

3.3.1 Test Band = WCDMA850

3.3.1.1 Test Mode = UMTS/TM1

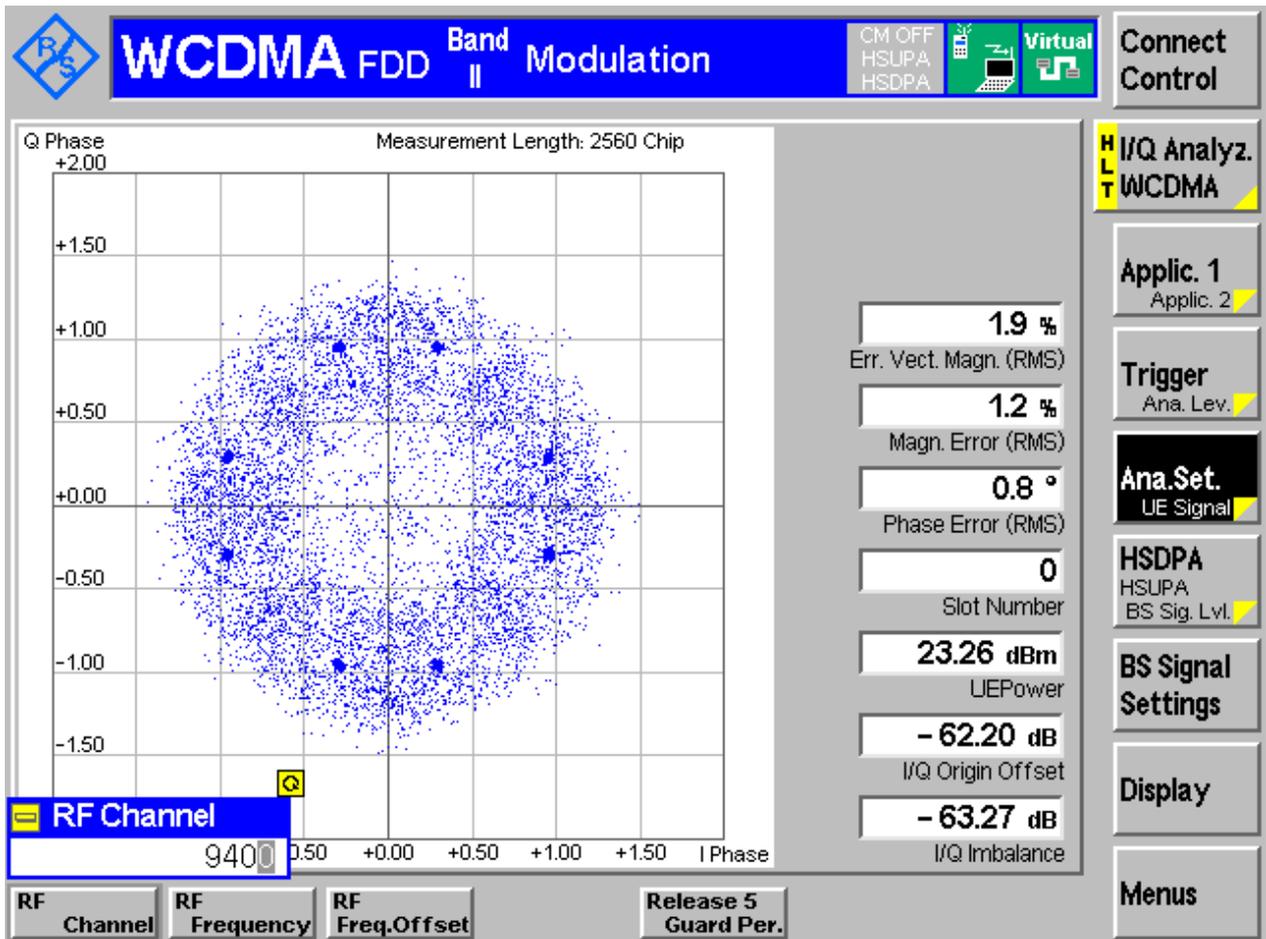
3.3.1.1.1 Test Channel = MCH



3.3.1 Test Band = WCDMA1900

3.3.1.1 Test Mode = UMTS/TM1

3.3.1.1.1 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	1.30	1.47	Pass
		MCH	1.30	1.48	Pass
		HCH	1.31	1.49	Pass
	CDMA/1X/TM3	LCH	1.28	1.46	Pass
		MCH	1.28	1.46	Pass
		HCH	1.29	1.46	Pass
BC1	CDMA/1X/TM1	LCH	1.31	1.48	Pass
		MCH	1.31	1.49	Pass
		HCH	1.32	1.64	Pass
	CDMA/1X/TM3	LCH	1.28	1.46	Pass
		MCH	1.29	1.46	Pass
		HCH	1.30	1.49	Pass

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	245.38	314.61	Pass
		MCH	244.53	314.67	Pass
		HCH	243.70	318.20	Pass
	GSM/TM2	LCH	242.64	307.10	Pass
		MCH	244.60	306.73	Pass
		HCH	239.03	305.61	Pass
GSM1900	GSM/TM1	LCH	246.81	319.34	Pass
		MCH	244.37	314.48	Pass
		HCH	246.03	314.04	Pass
	GSM/TM2	LCH	243.33	303.82	Pass
		MCH	244.60	312.81	Pass
		HCH	243.14	302.10	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.15	4.74	Pass
		MCH	4.12	4.72	Pass
		HCH	4.12	4.72	Pass



Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA1900	UMTS/TM1	LCH	4.15	4.73	Pass
		MCH	4.16	4.73	Pass
		HCH	4.17	4.76	Pass



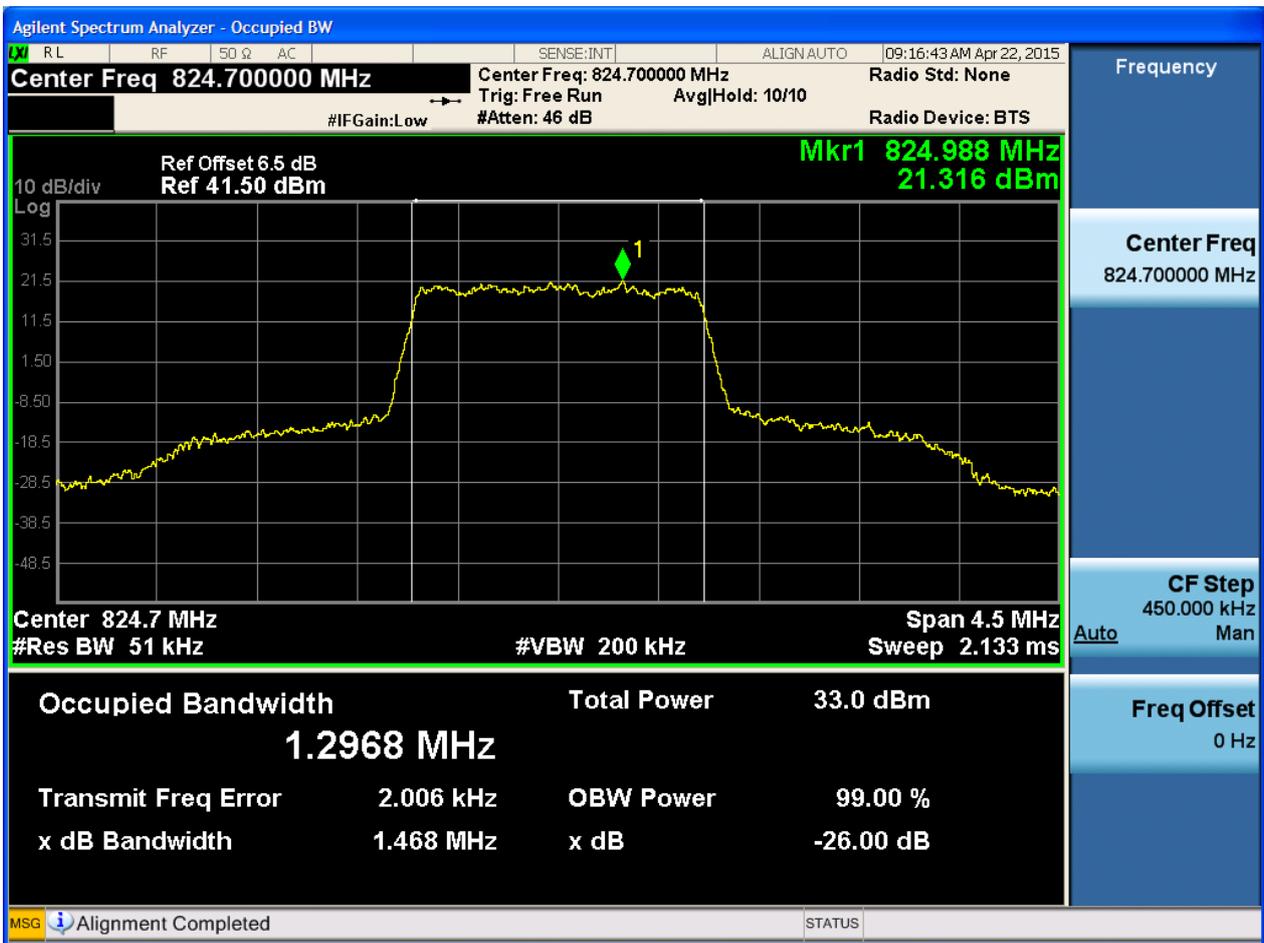
Part II - Test Plots

4.1 For CDMA1X

4.1.1 Test Band = BC0

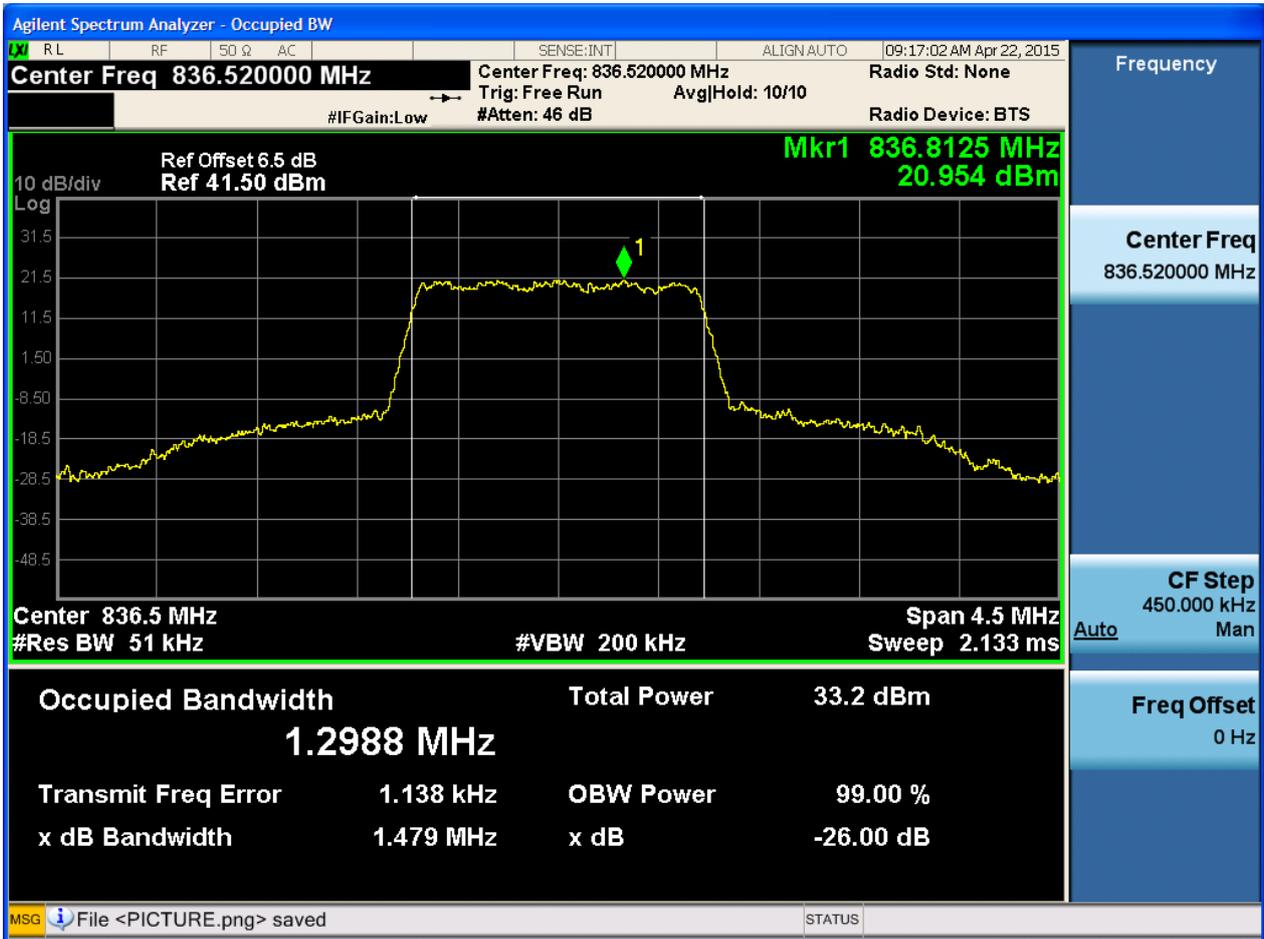
4.1.1.1 Test Mode = CDMA1X/TM1

4.1.1.1.1 Test Channel = LCH



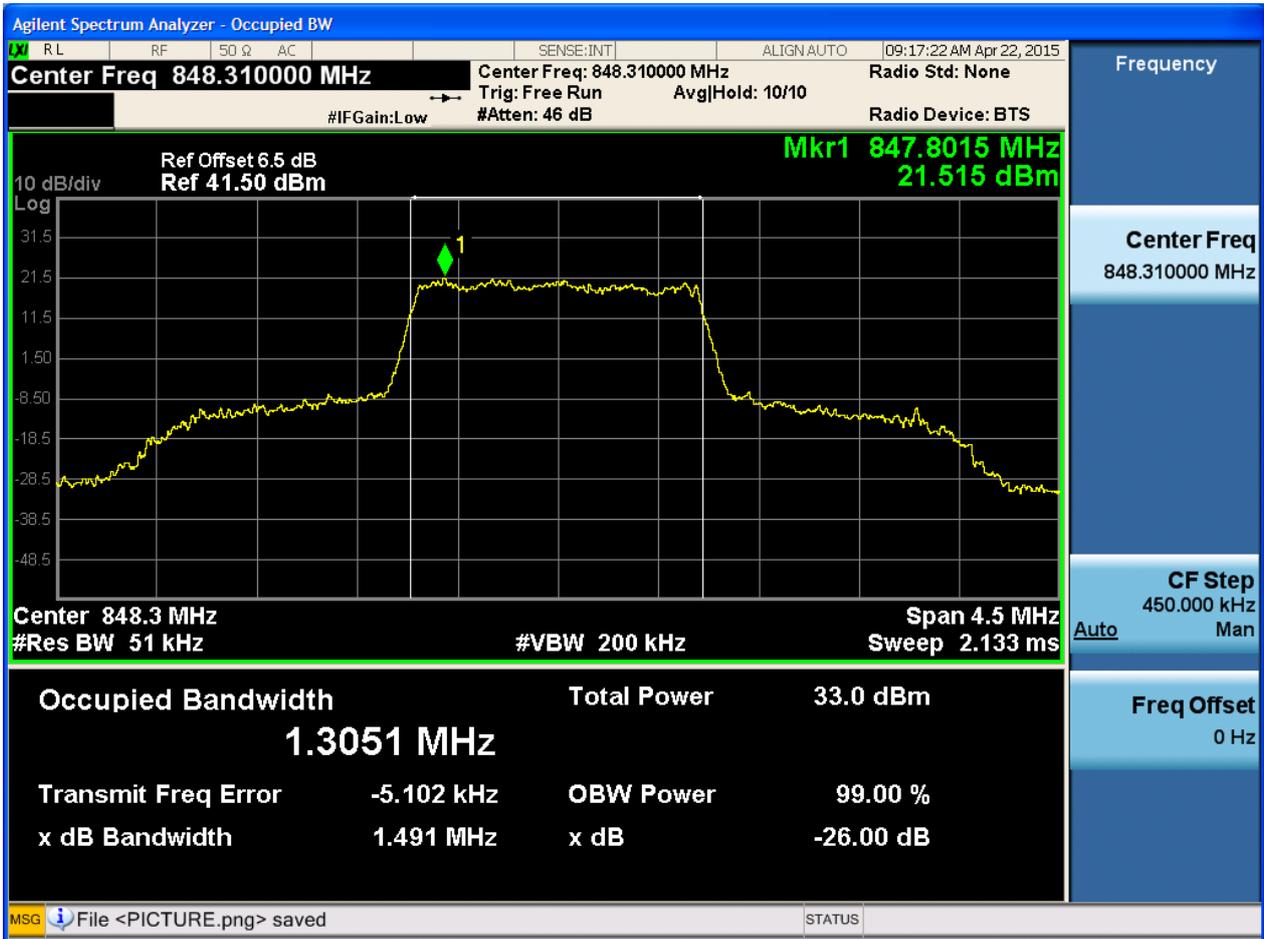


4.1.1.1.2 Test Channel = MCH





4.1.1.1.3 Test Channel = HCH





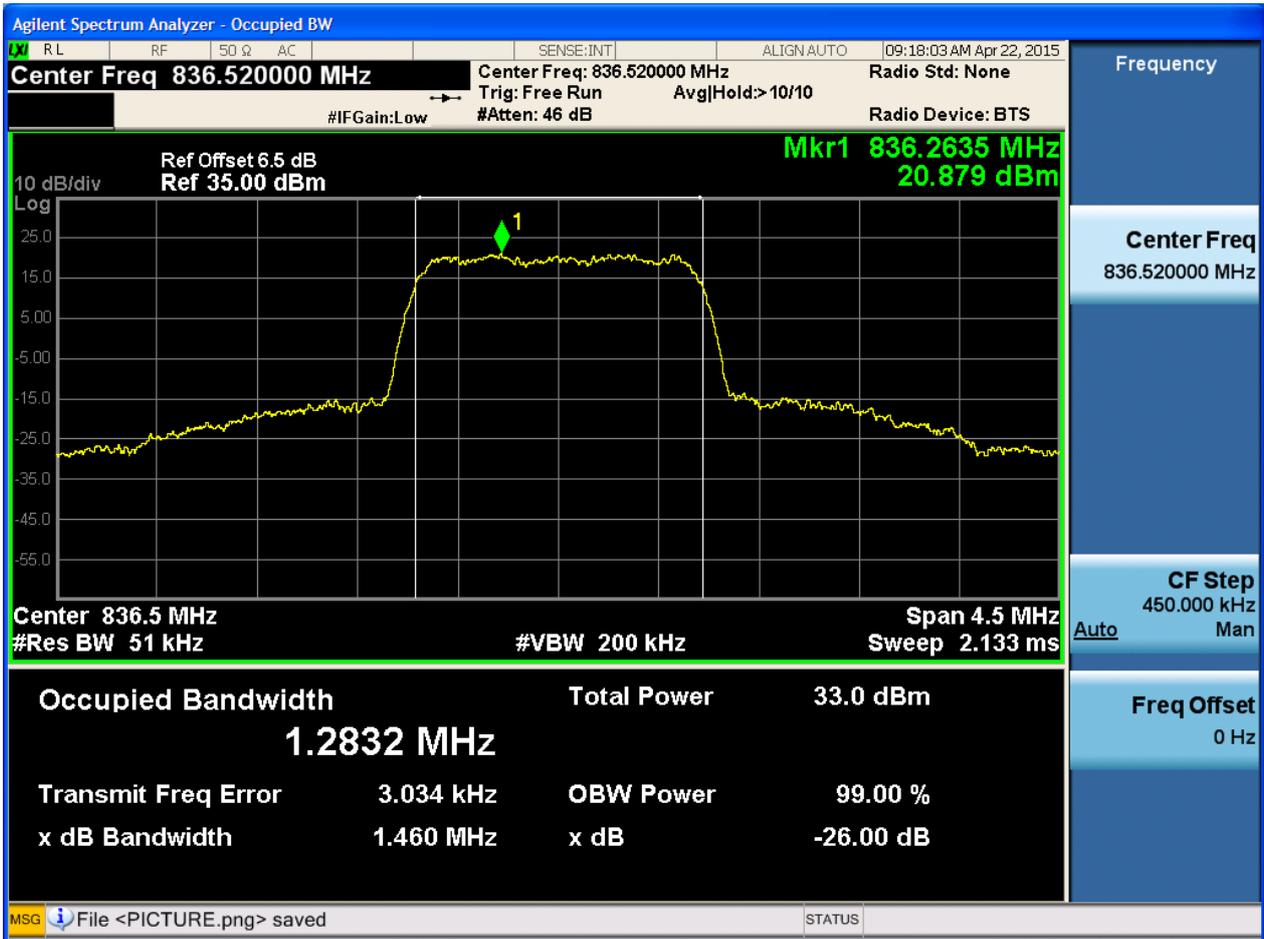
4.1.1.2 Test Mode = CDMA/1X/TM3

4.1.1.2.1 Test Channel = LCH



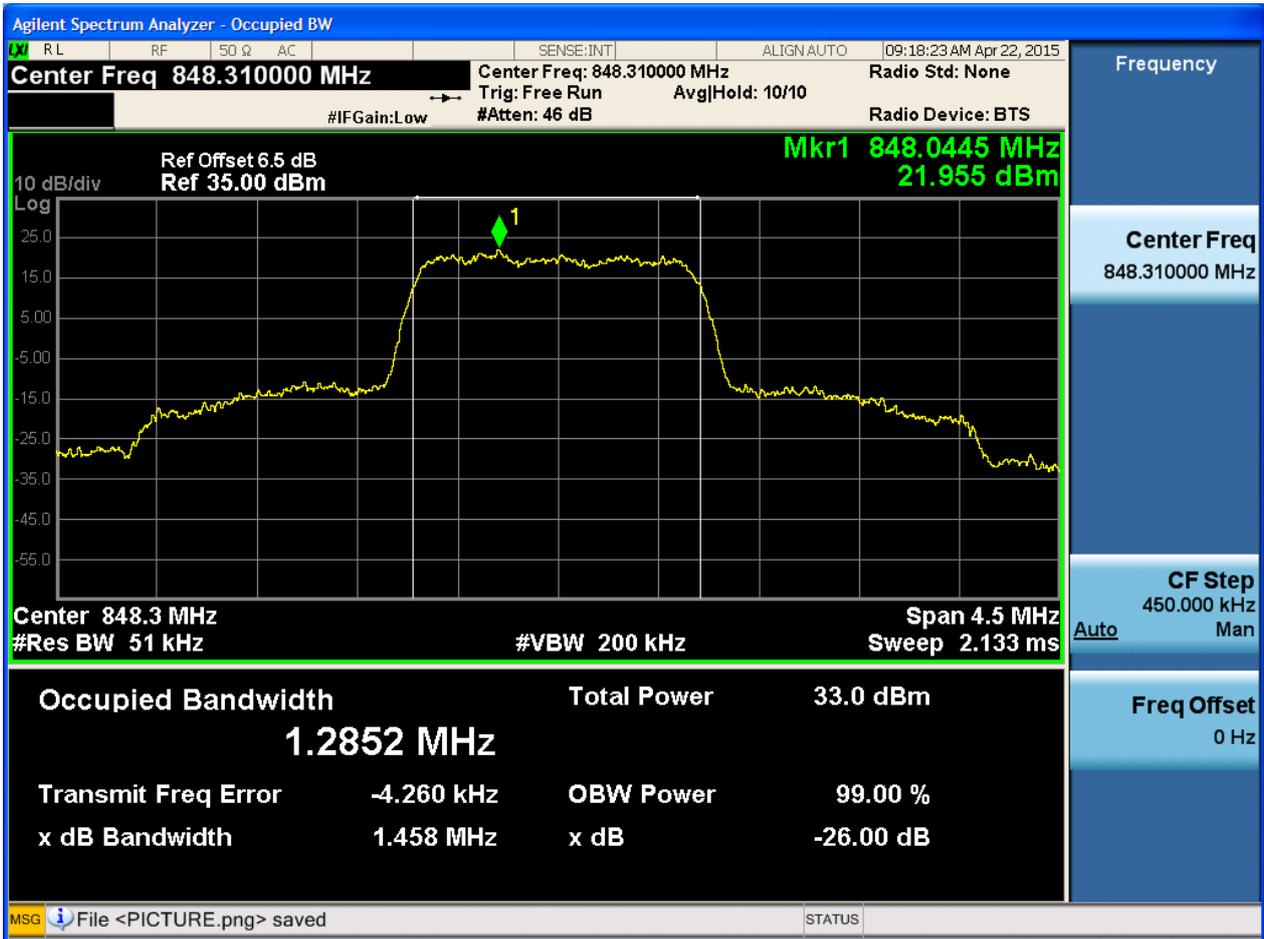


4.1.1.2.2 Test Channel = MCH





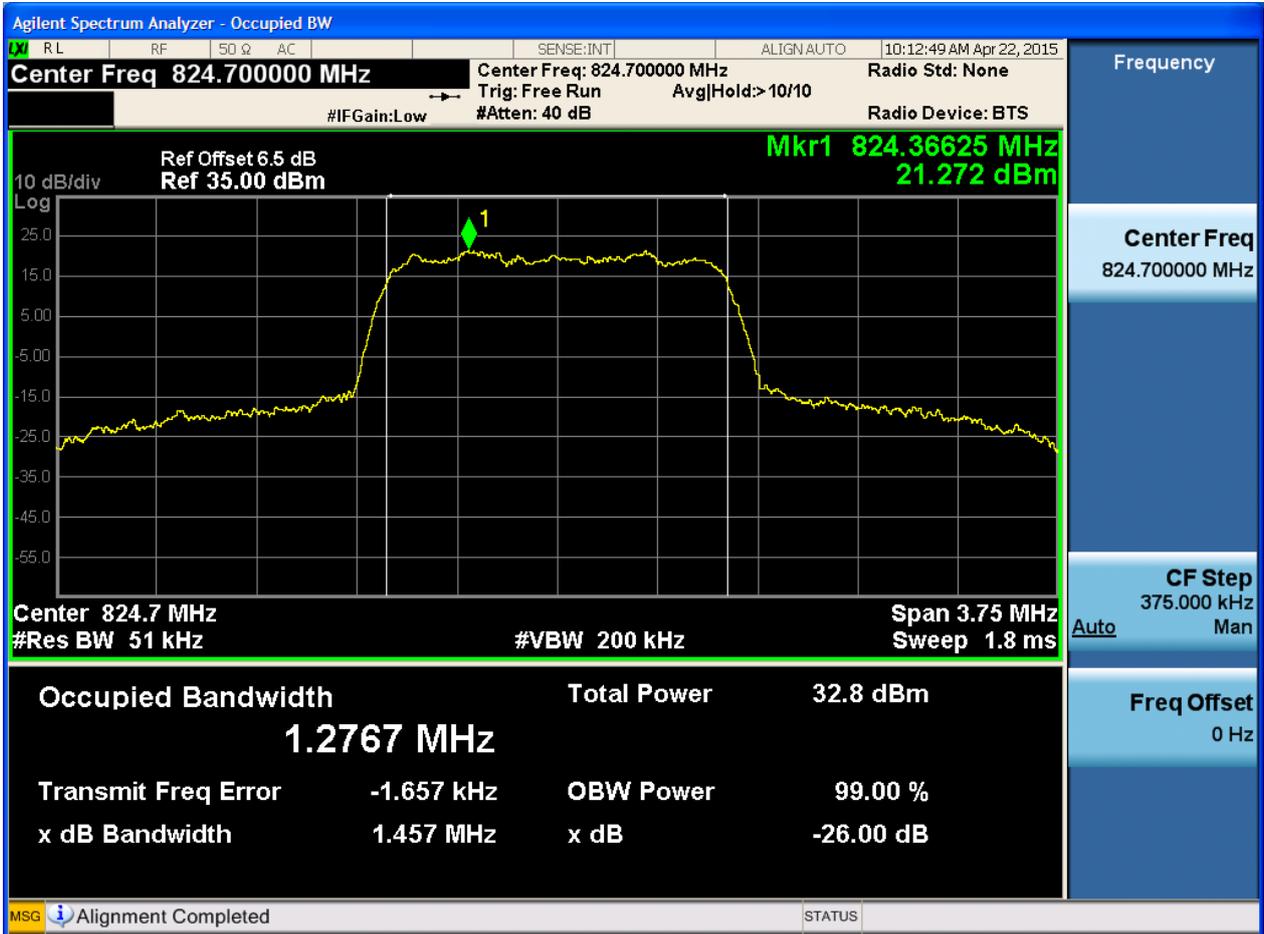
4.1.1.2.3 Test Channel = HCH





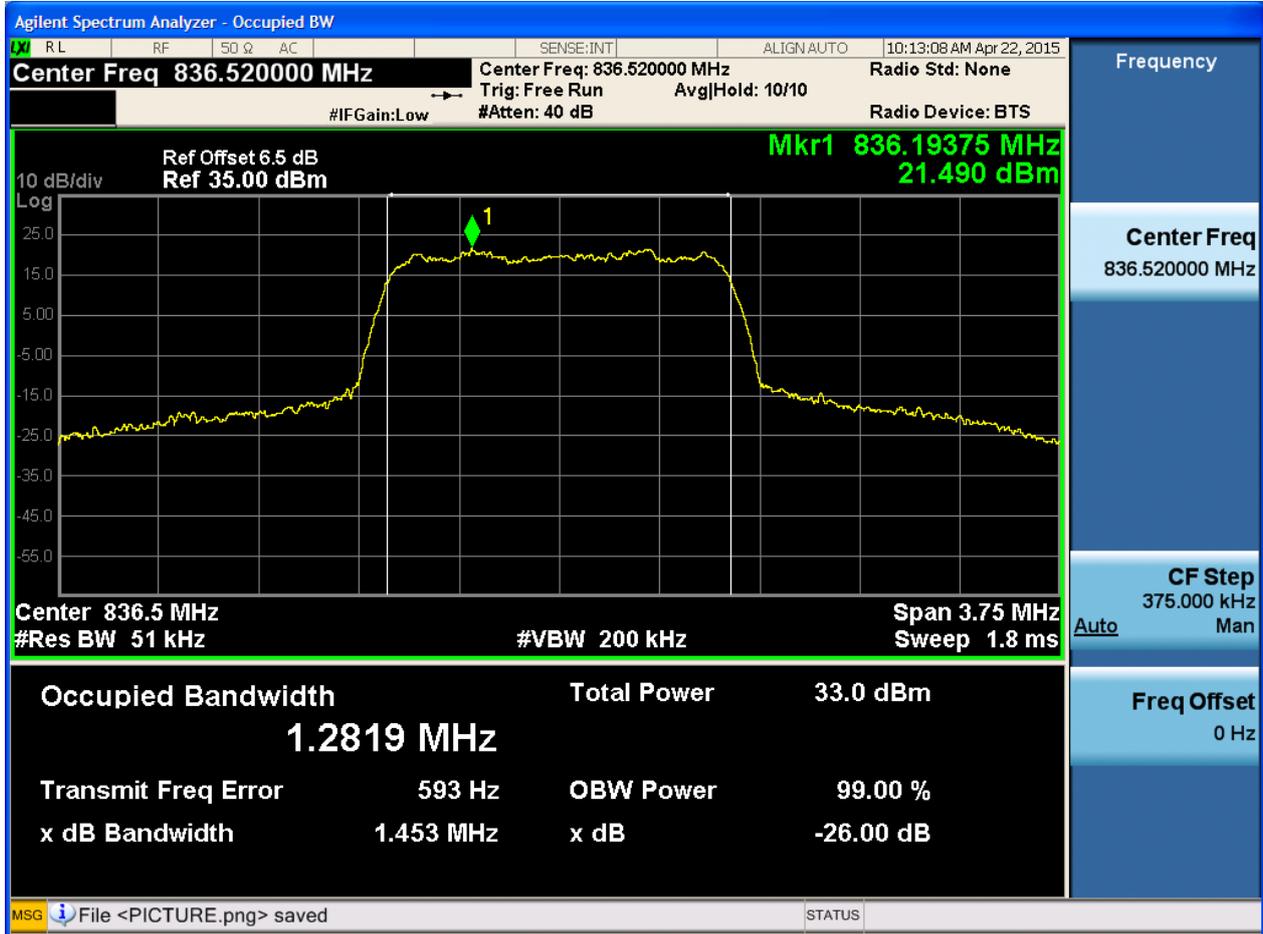
4.1.1.3 Test Mode = CDMA/EV-DO/Subtype0

4.1.1.3.1 Test Channel = LCH



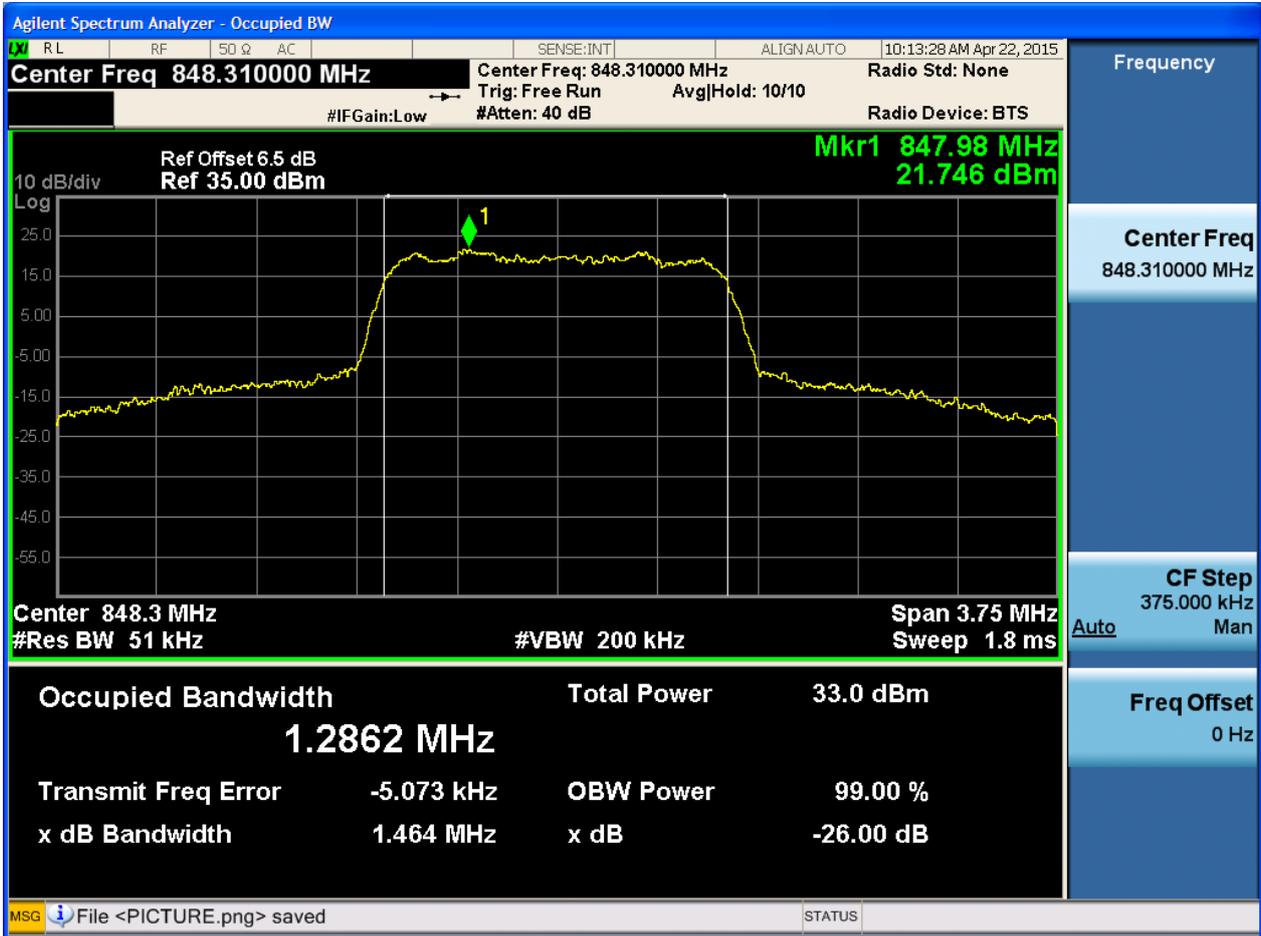


4.1.1.3.2 Test Channel = MCH





4.1.1.3.3 Test Channel = HCH





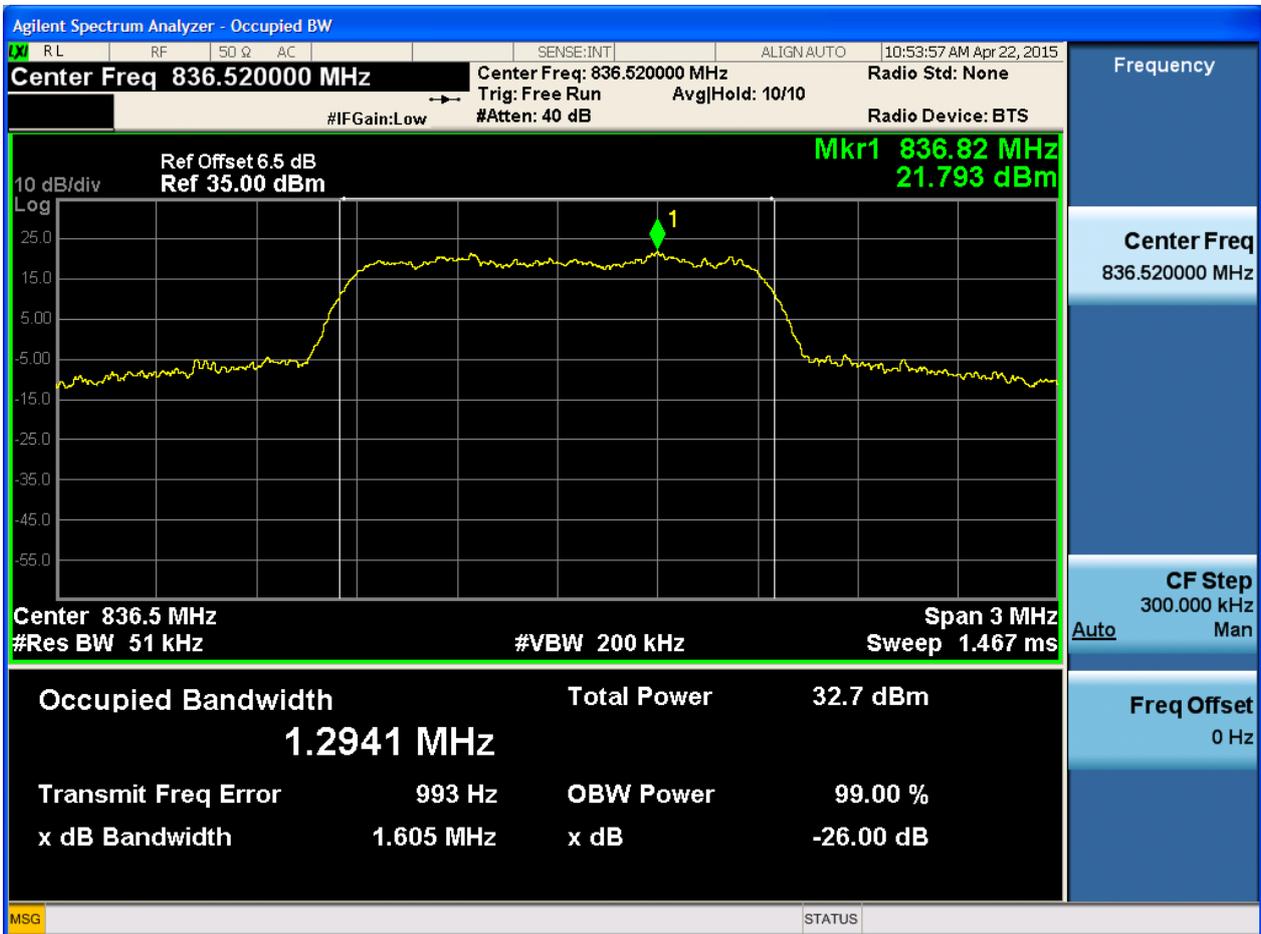
4.1.1.4 Test Mode = CDMA/EV-DO/Subtype2/256

4.1.1.4.1 Test Channel = LCH





4.1.1.4.2 Test Channel = MCH





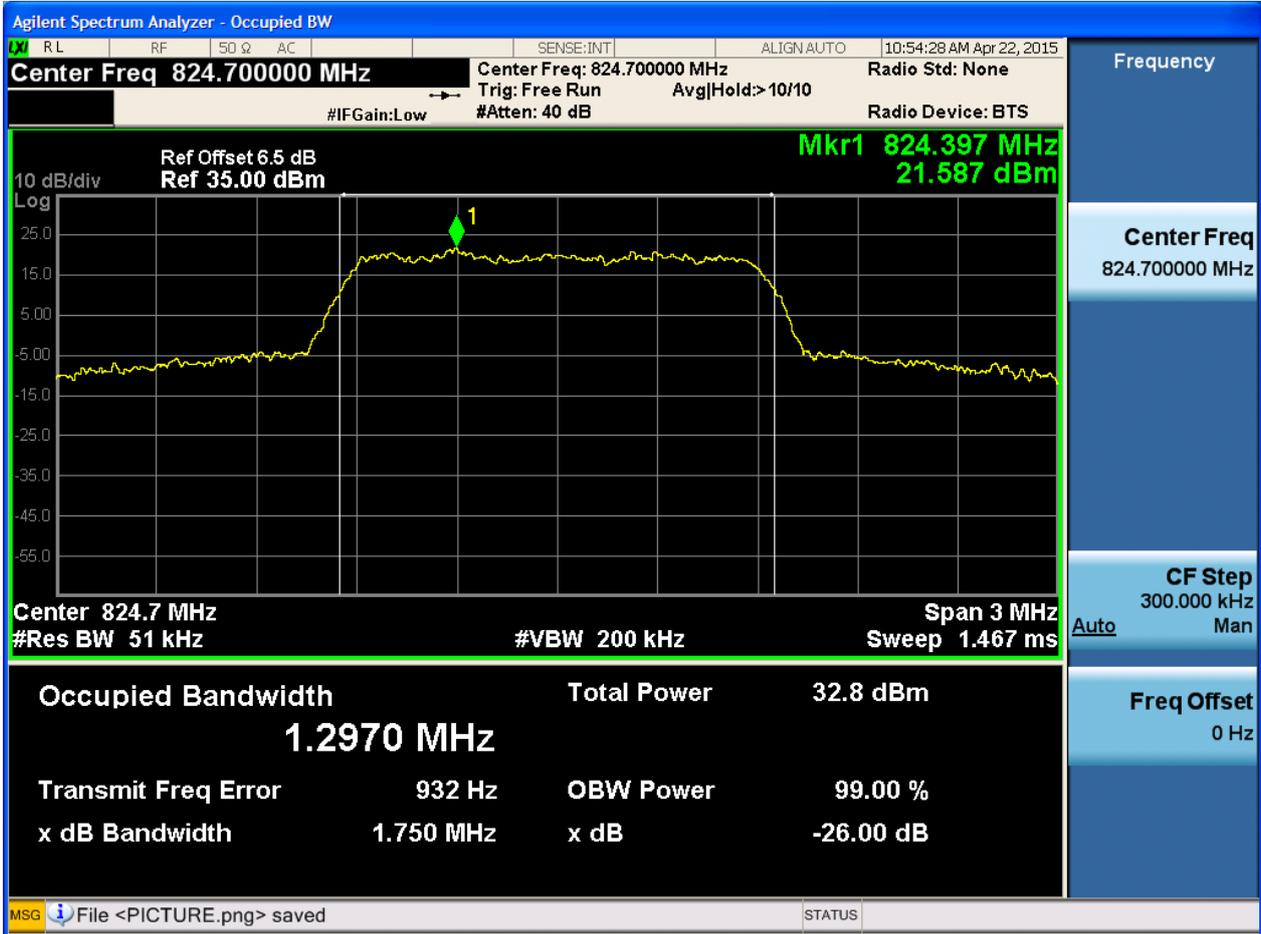
4.1.1.4.3 Test Channel = HCH





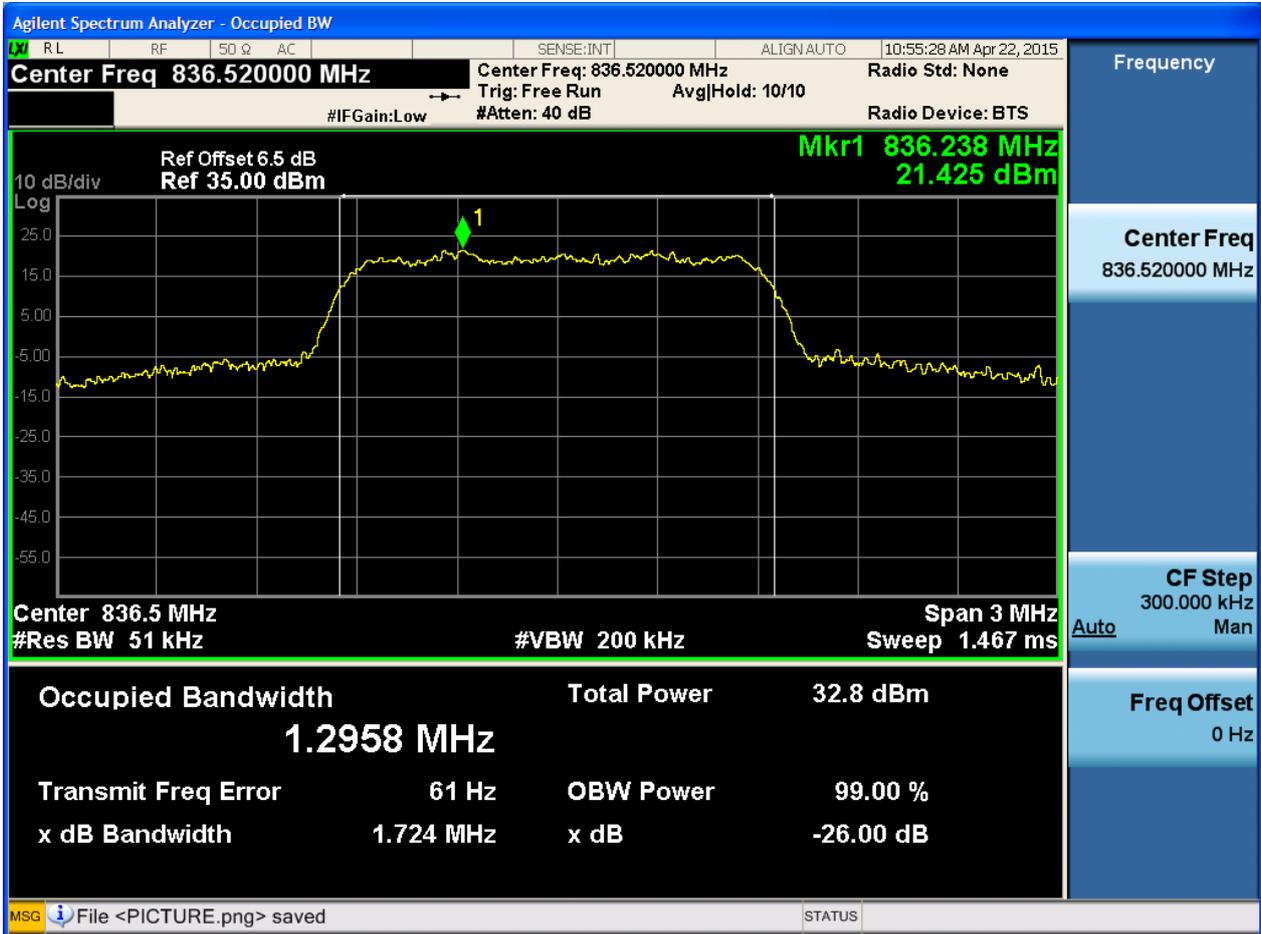
4.1.1.5 Test Mode = CDMA/EV-DO/Subtype2/4096

4.1.1.5.1 Test Channel = LCH





4.1.1.5.2 Test Channel = MCH





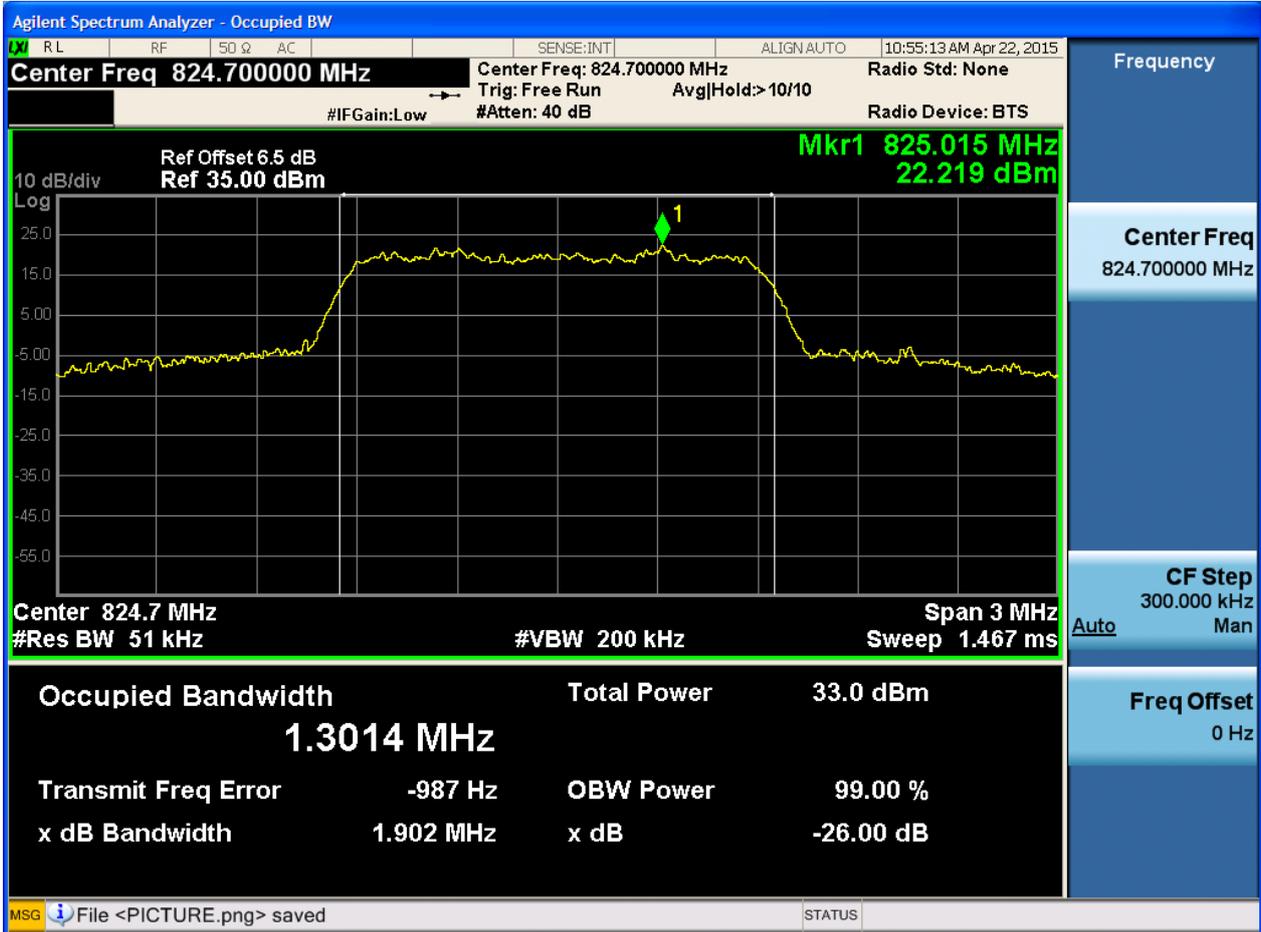
4.1.1.5.3 Test Channel = HCH





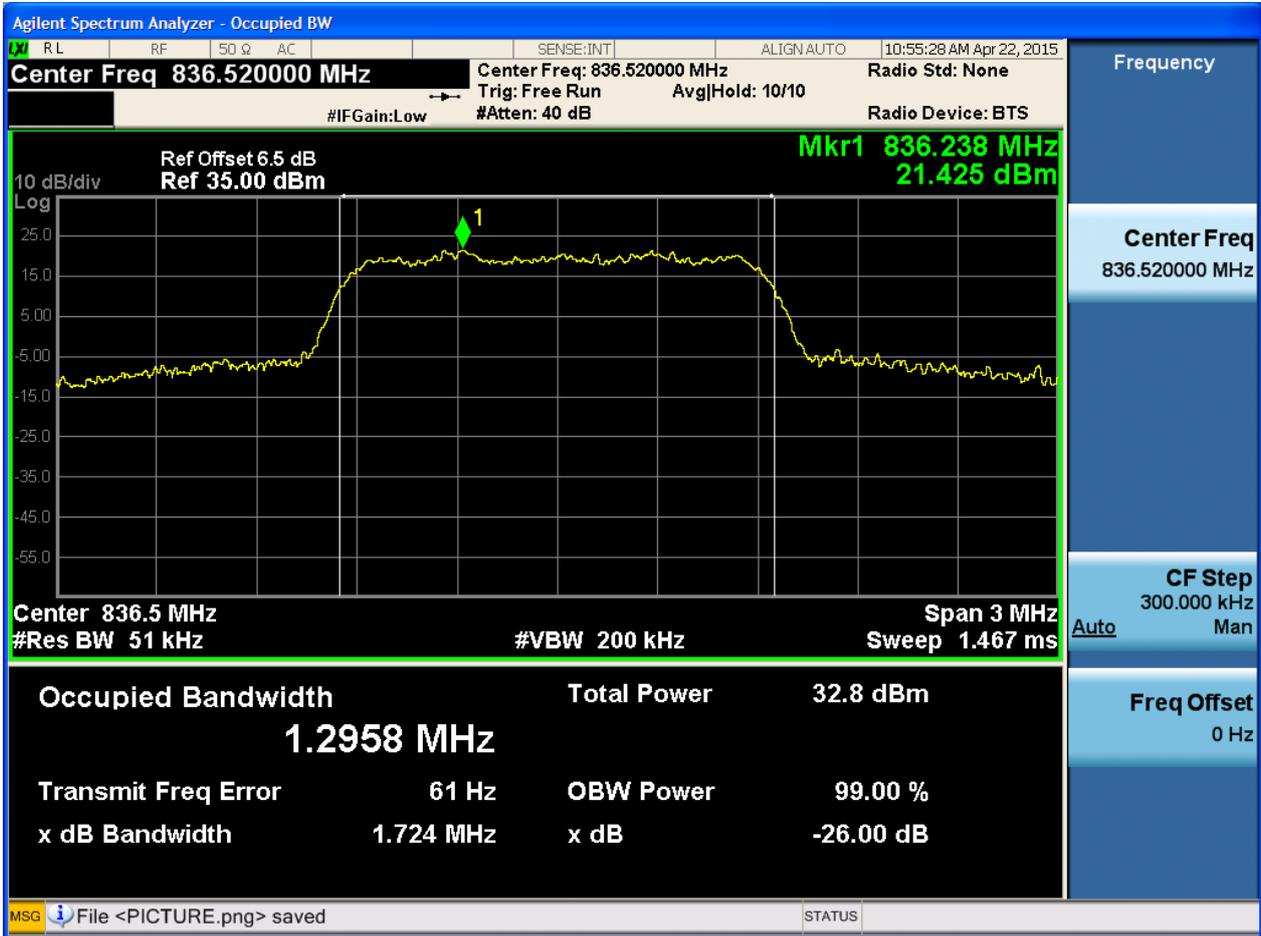
4.1.1.6 Test Mode = CDMA/EV-DO/Subtype2/12288

4.1.1.6.1 Test Channel = LCH



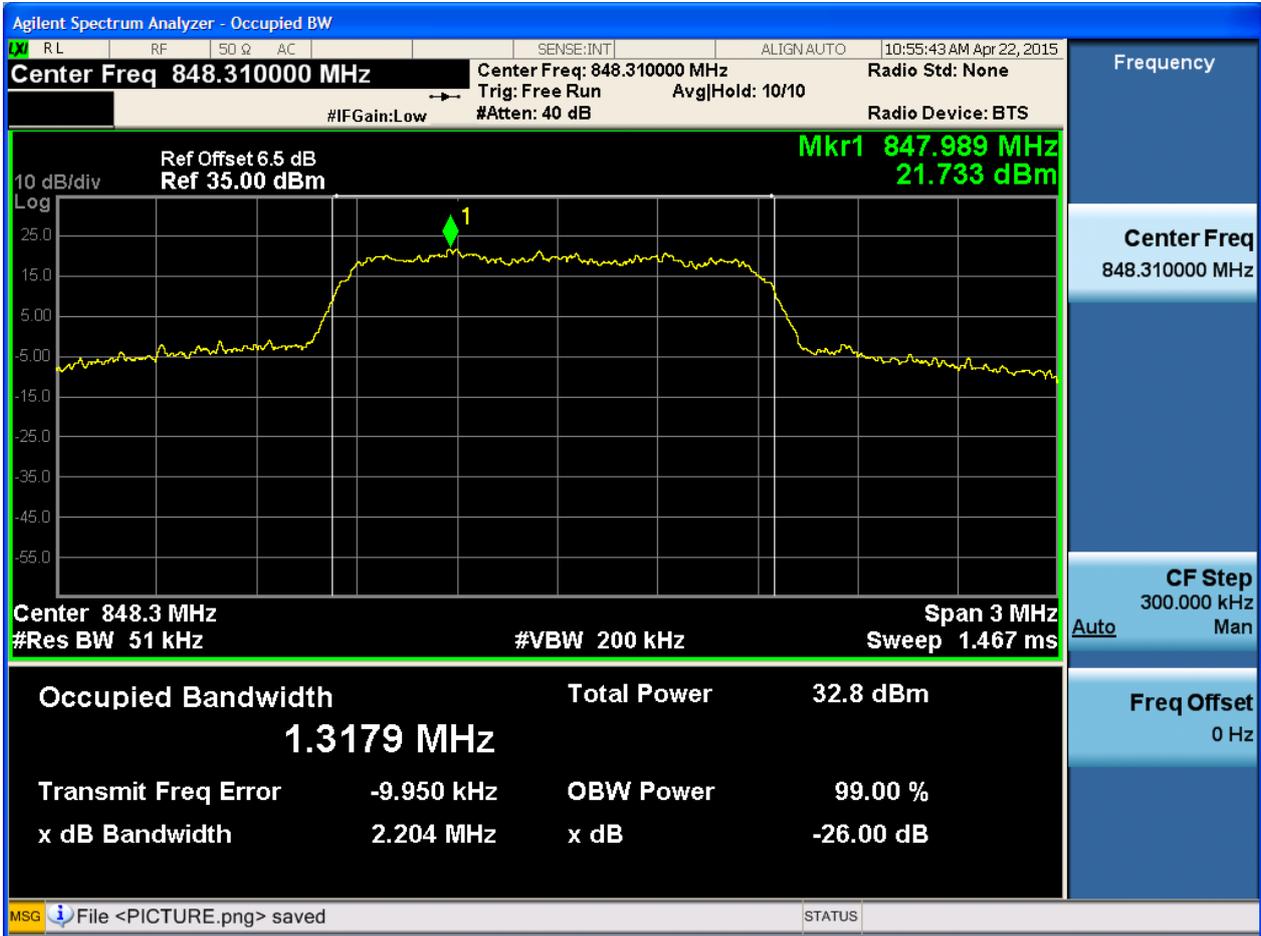


4.1.1.6.1 Test Channel = MCH





4.1.1.6.1 Test Channel = HCH





4.1.2 Test Band = BC1

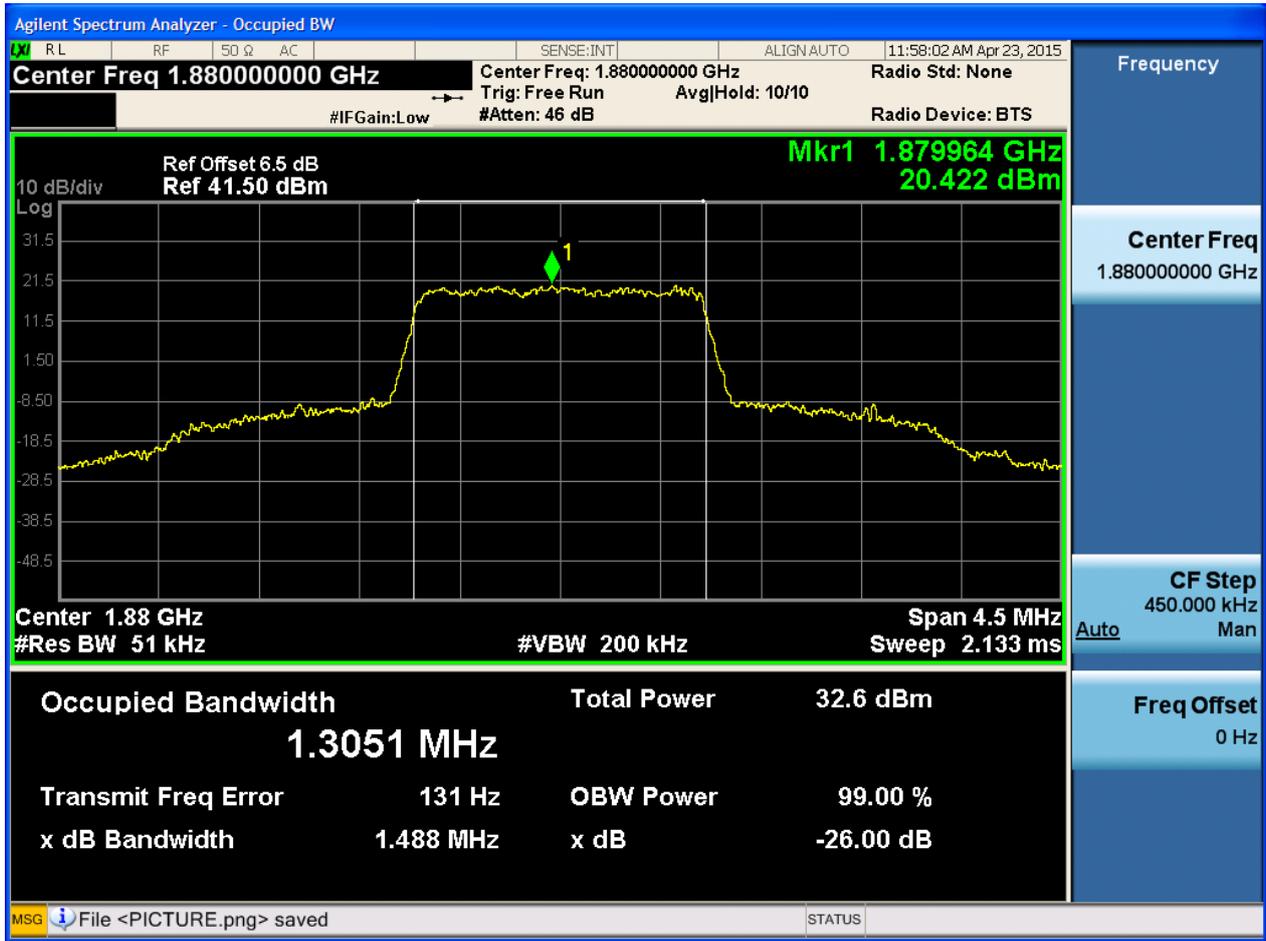
4.1.2.1 Test Mode = CDMA1X/TM1

4.1.2.1.1 Test Channel = LCH



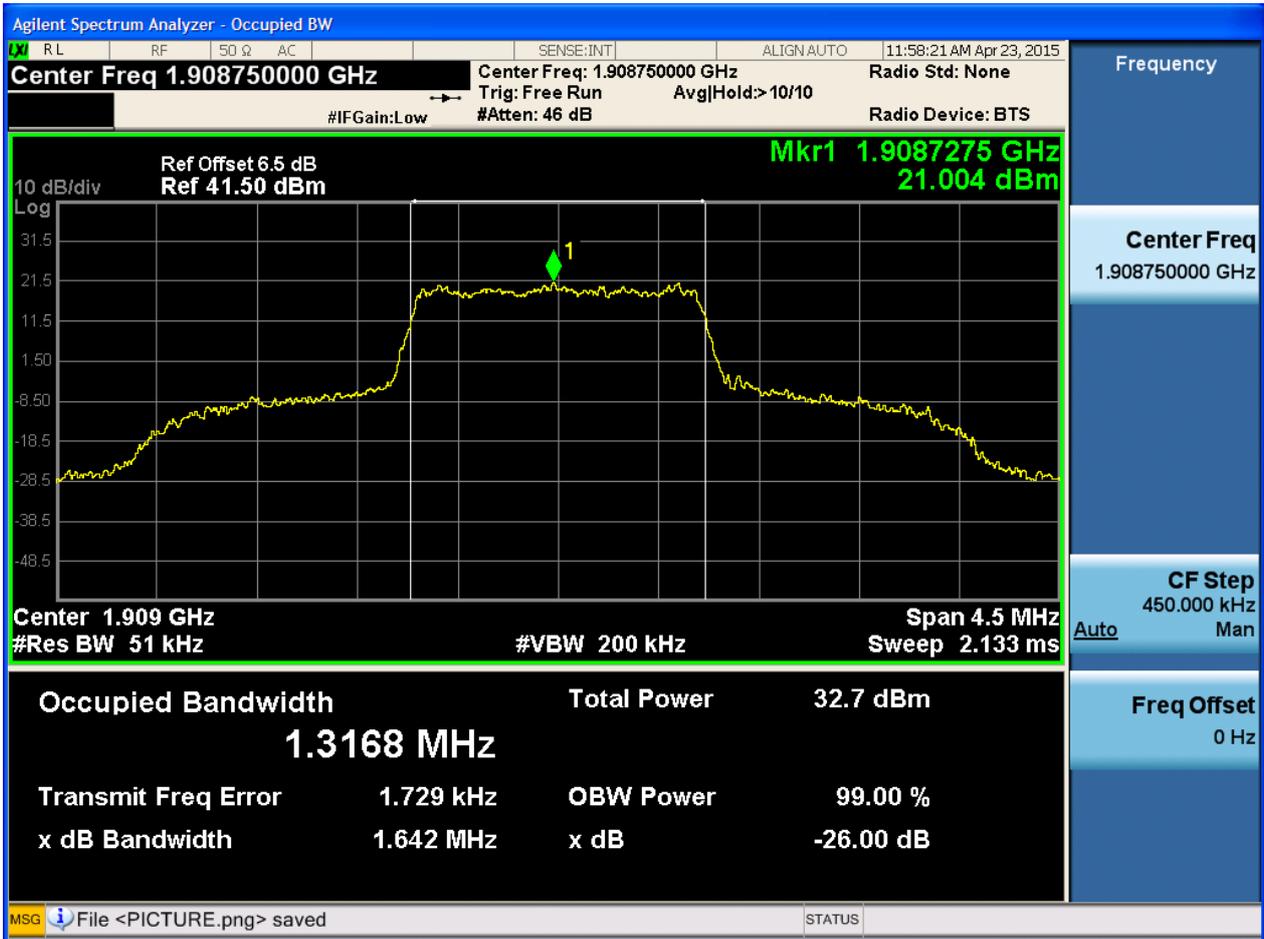


4.1.2.1.2 Test Channel = MCH





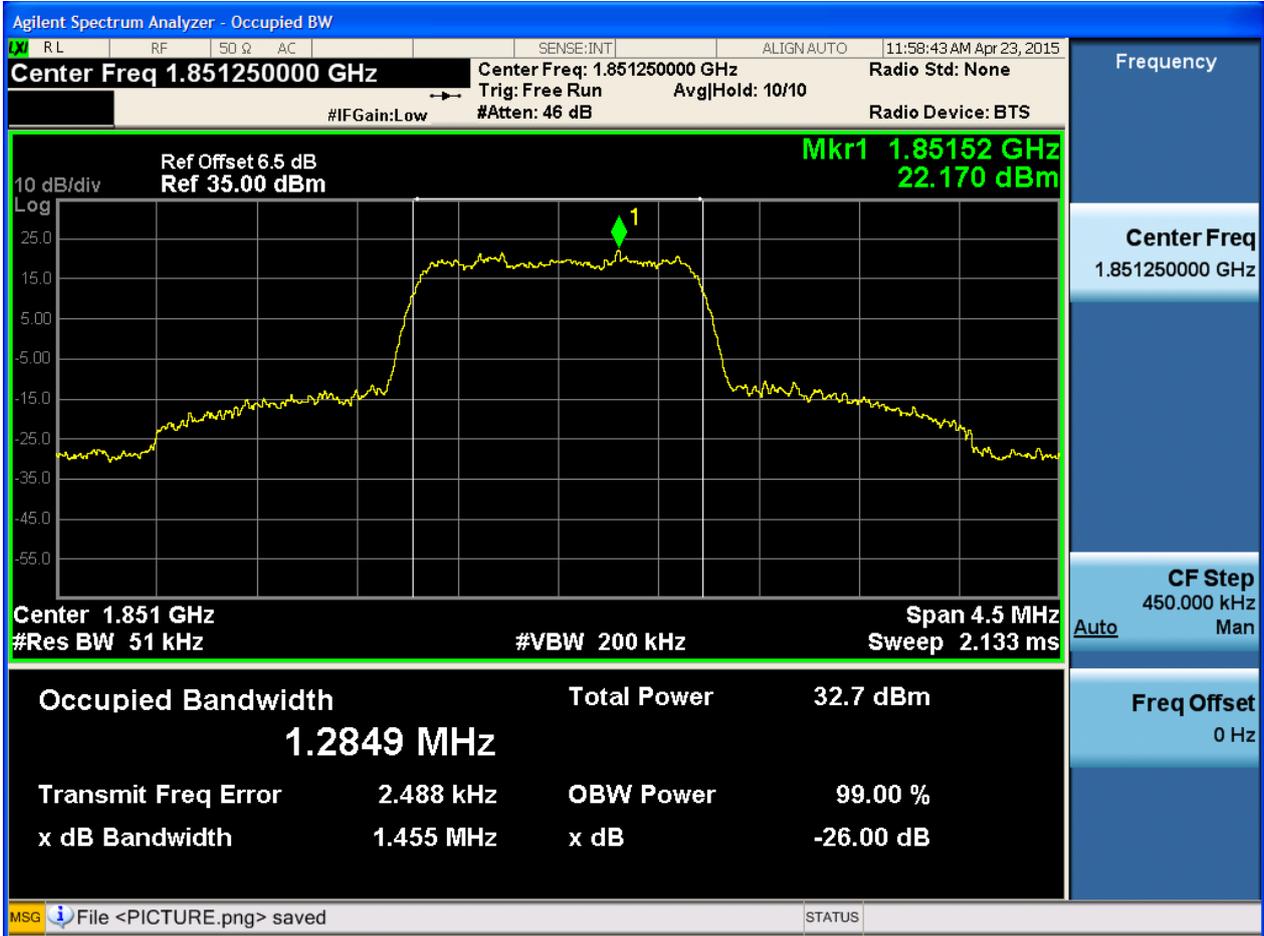
4.1.2.1.3 Test Channel = HCH





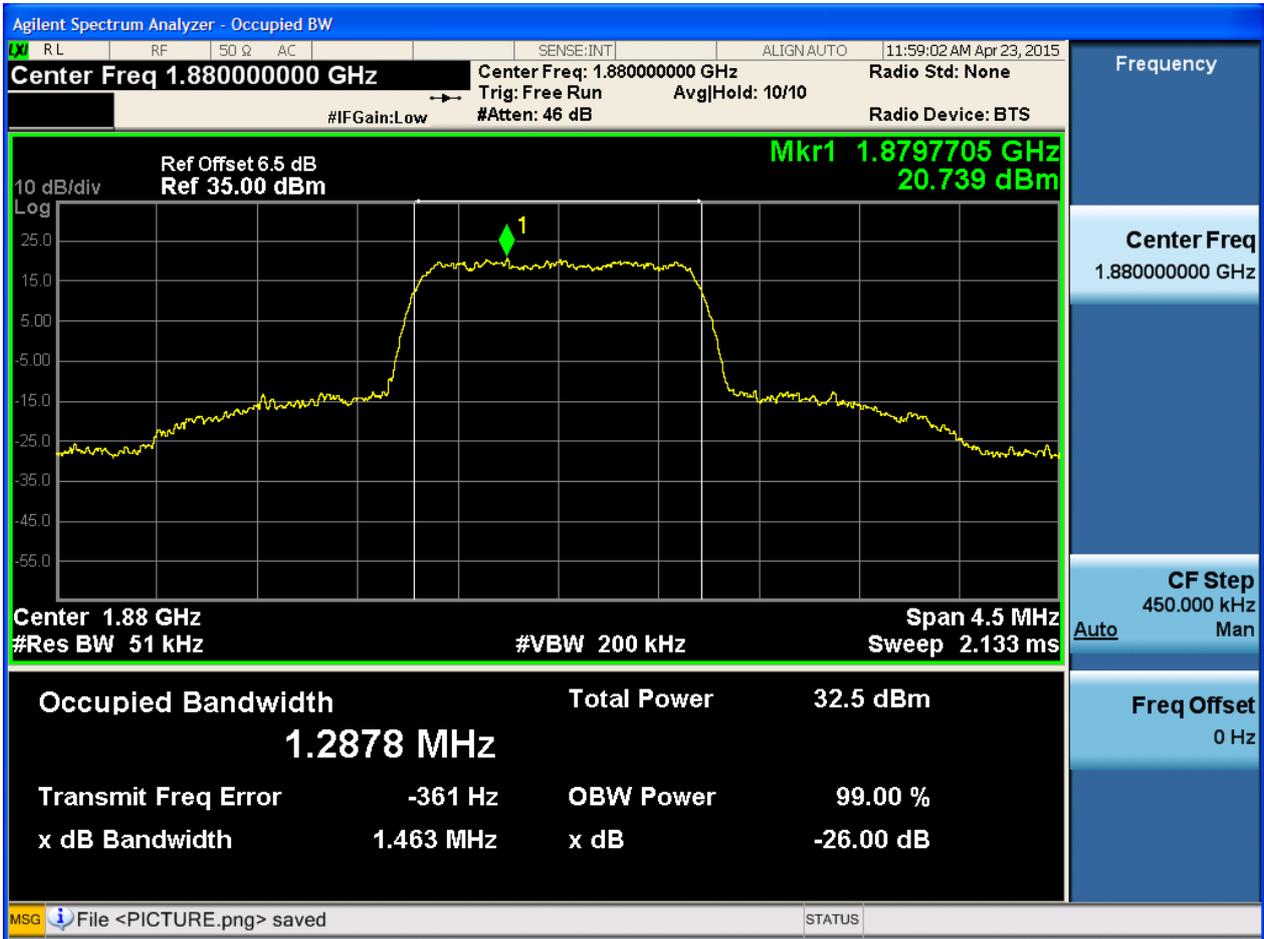
4.1.2.2 Test Mode = CDMA/1X/TM3

4.1.2.2.1 Test Channel = LCH



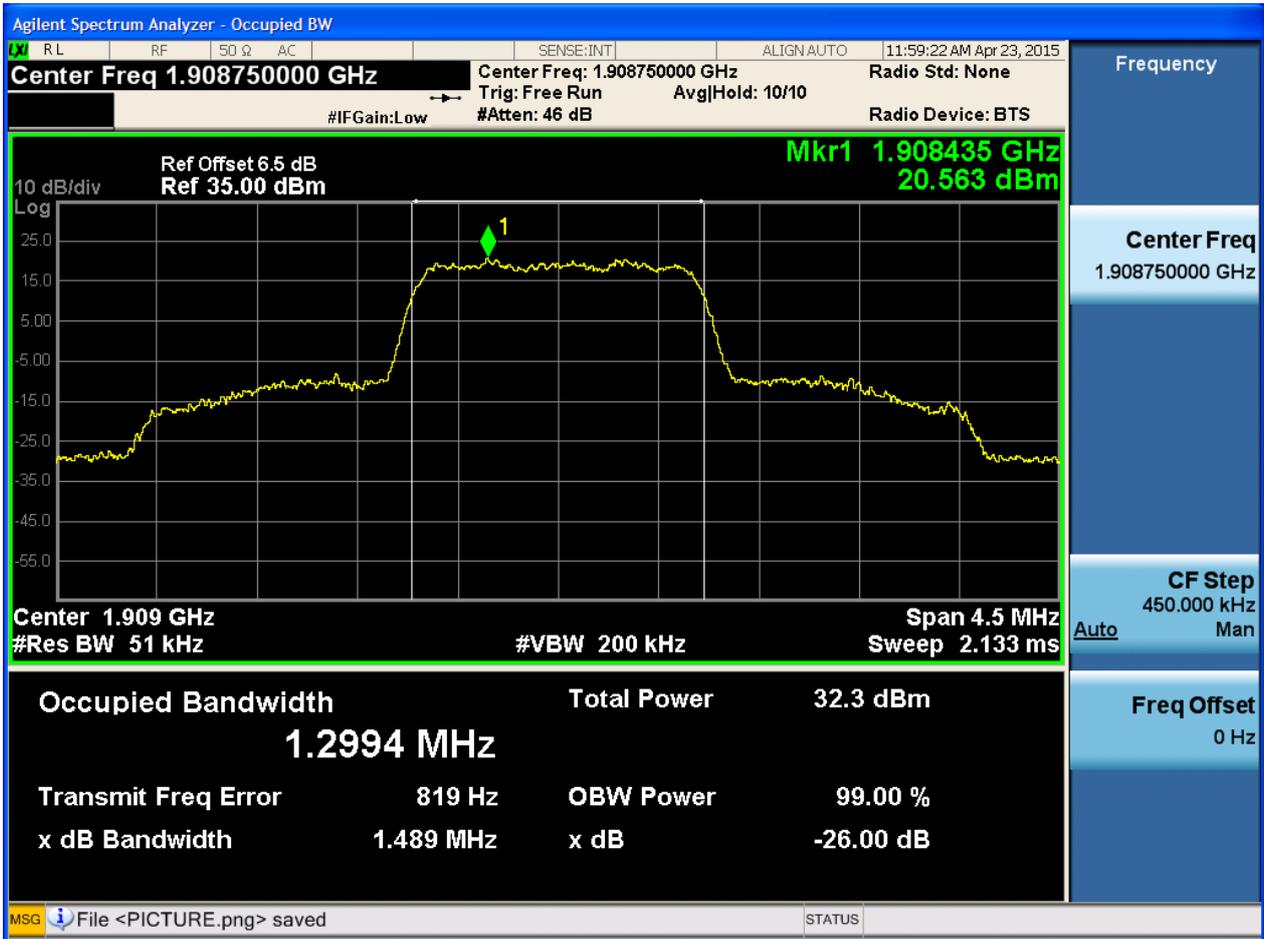


4.1.2.2.2 Test Channel = MCH





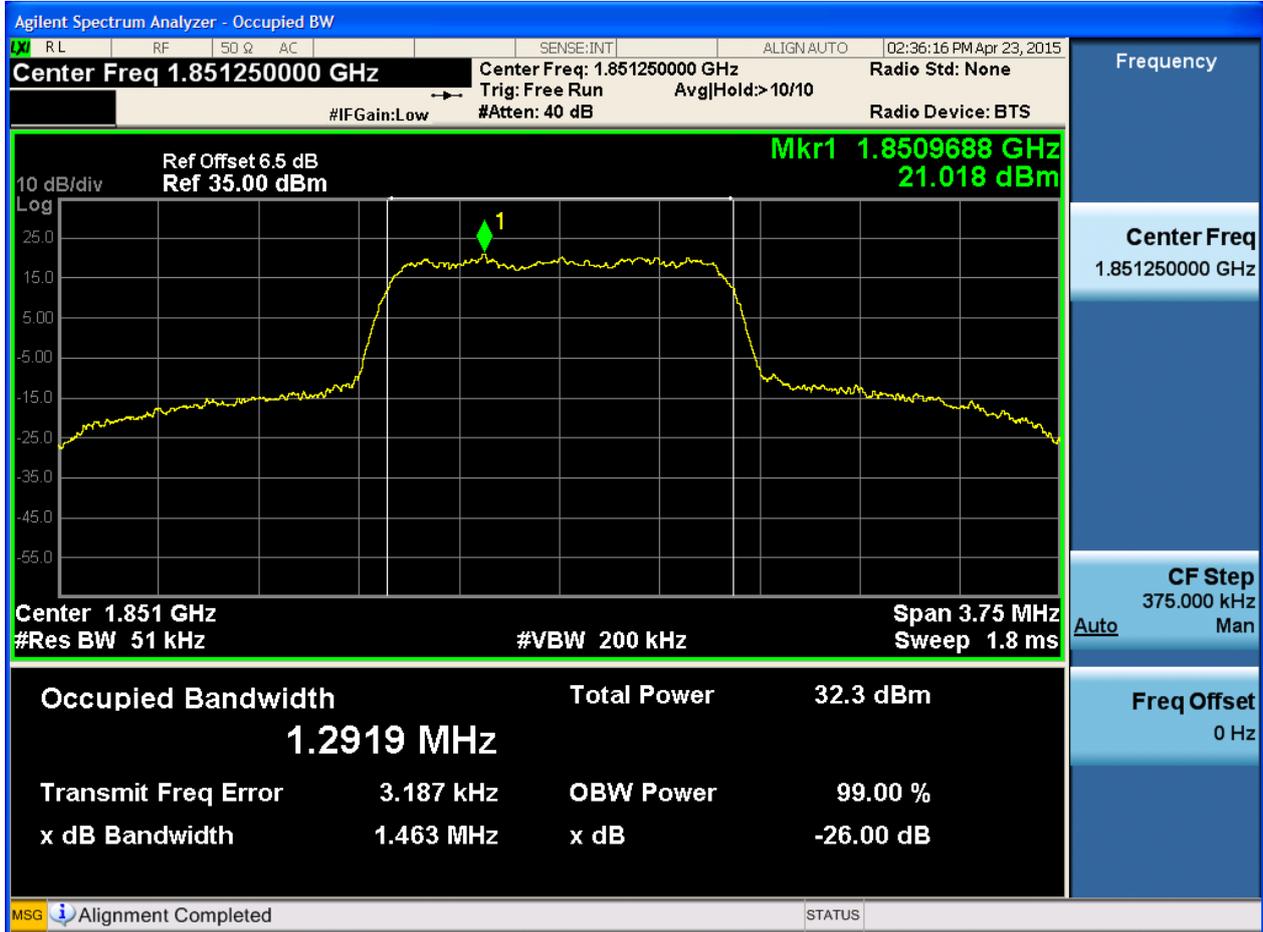
4.1.2.2.3 Test Channel = HCH





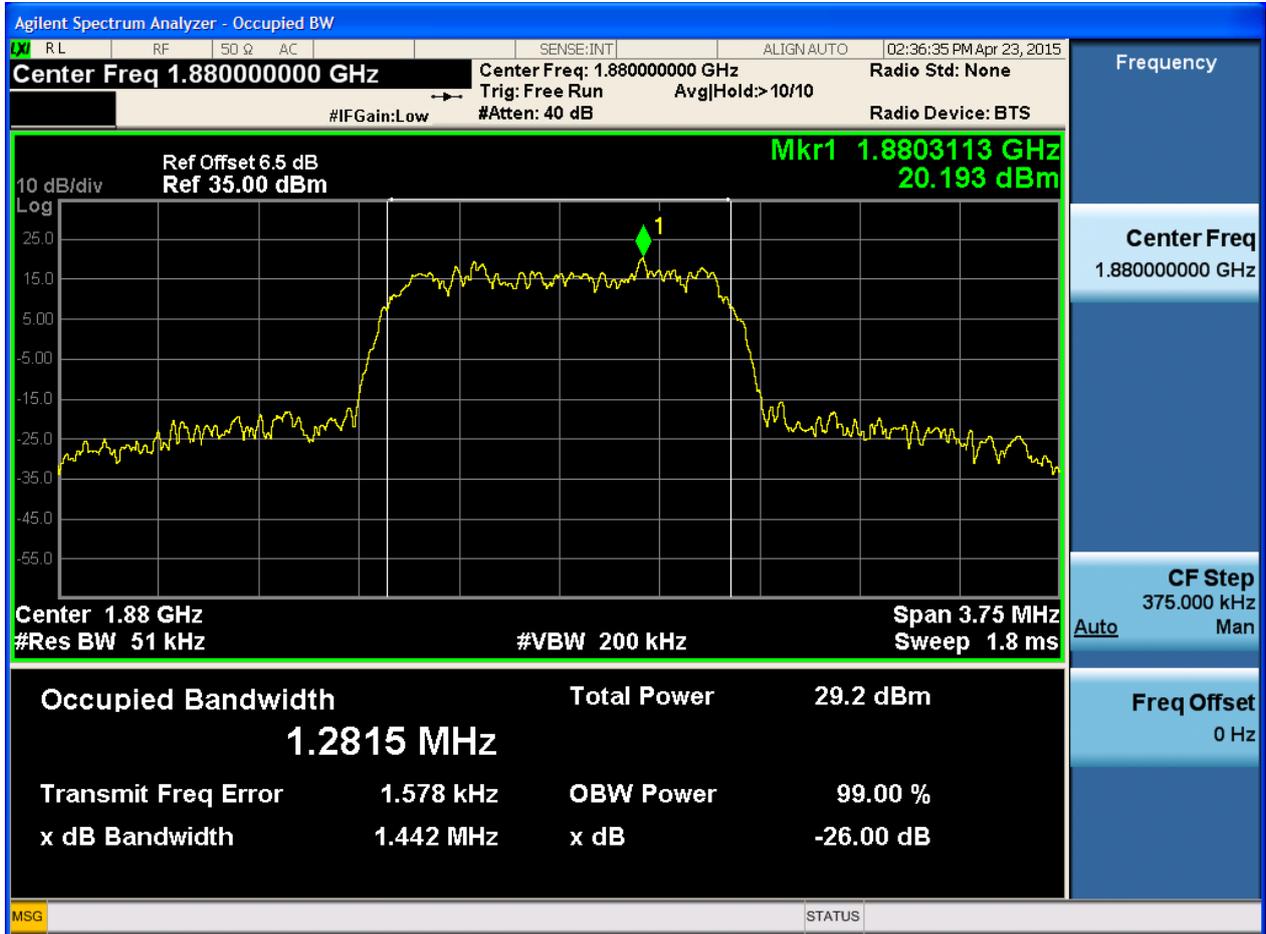
4.1.2.3 Test Mode = CDMA/EV-DO/Subtype0

4.1.2.3.1 Test Channel = LCH





4.1.2.3.2 Test Channel = MCH





4.1.2.3.3 Test Channel = HCH





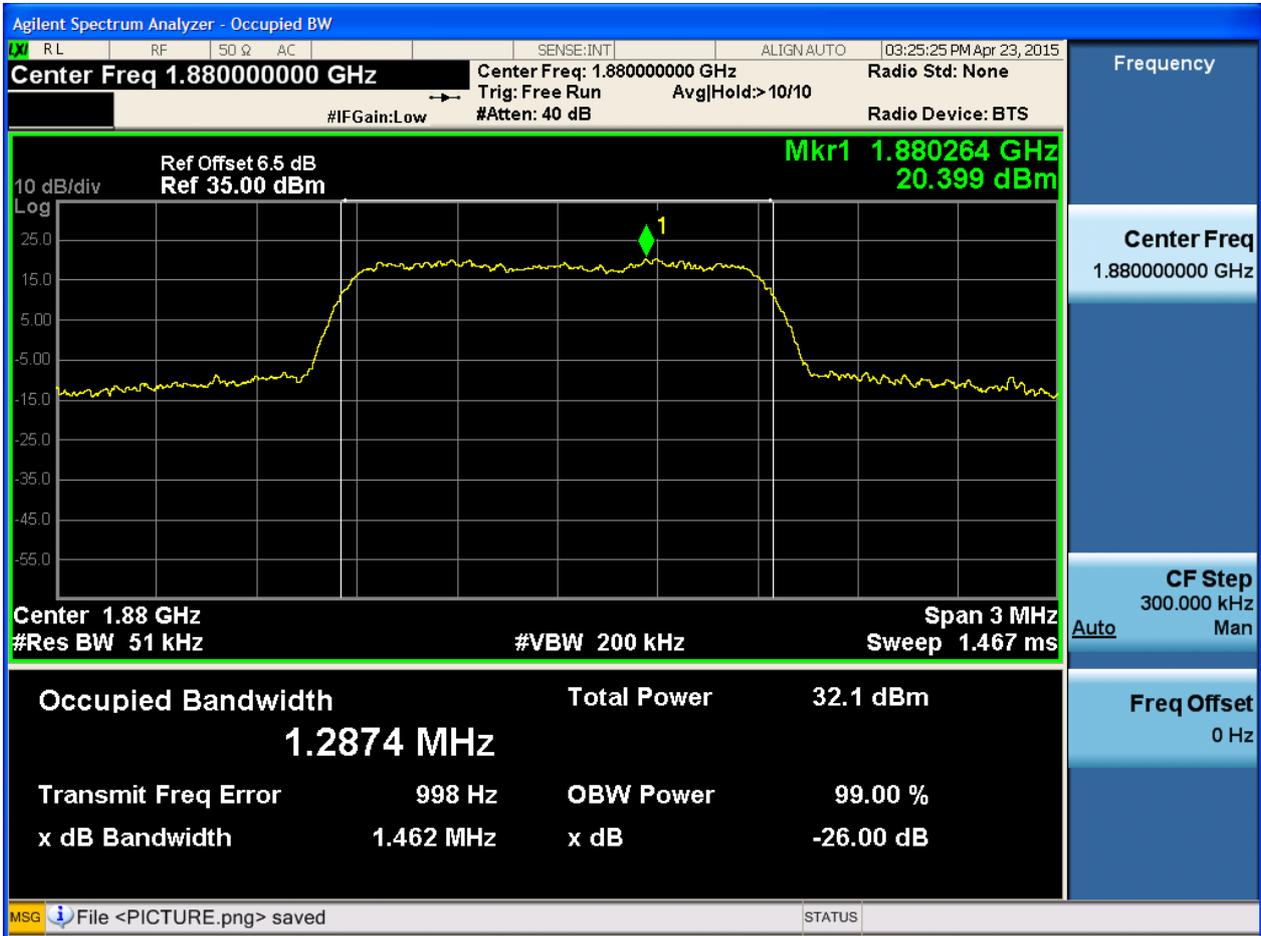
4.1.2.4 Test Mode = CDMA/EV-DO/Subtype2/256

4.1.2.4.1 Test Channel = LCH



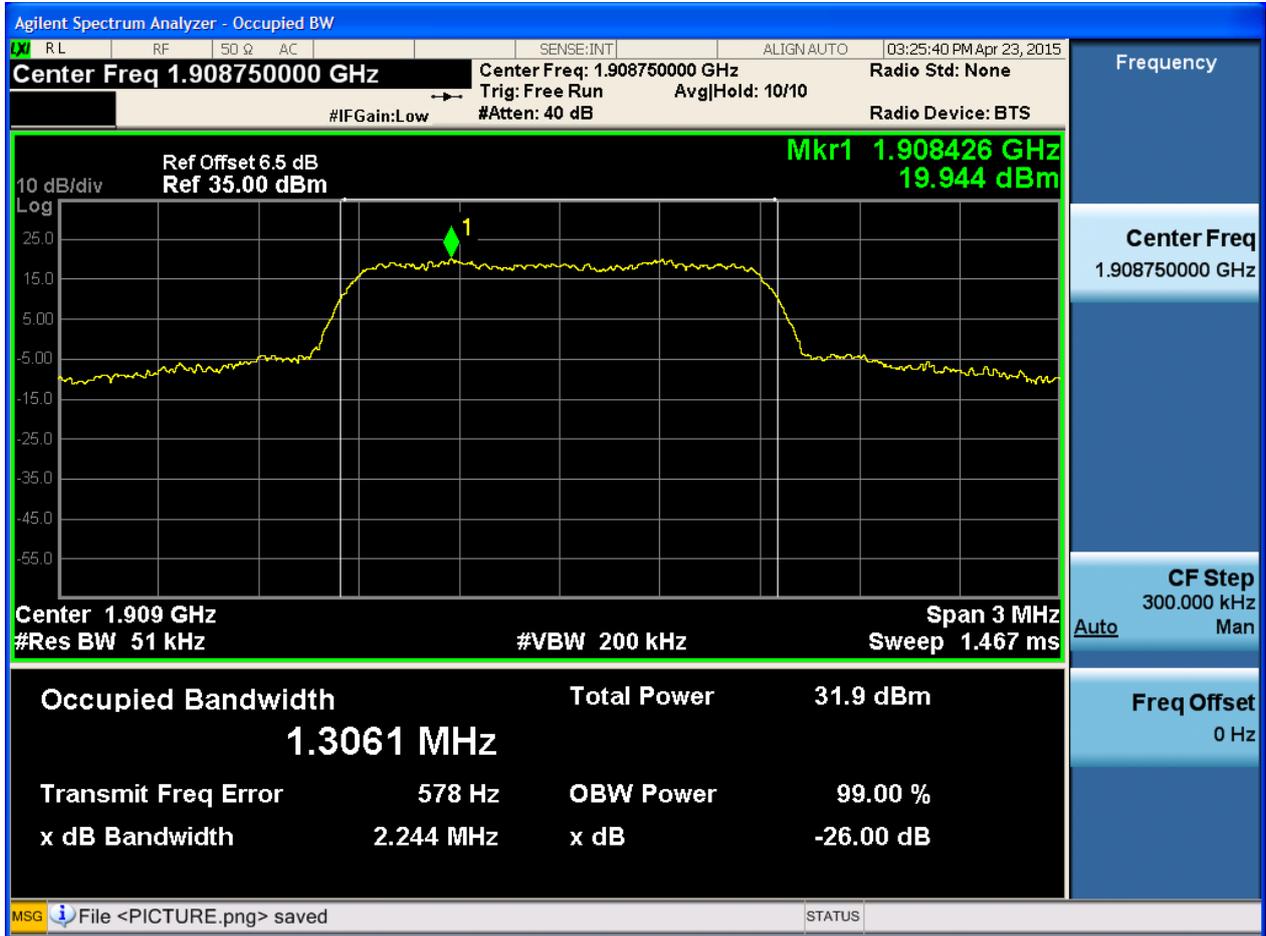


4.1.2.4.2 Test Channel = MCH





4.1.2.4.3 Test Channel = HCH





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

4.1.2.5.1 Test Channel = LCH





4.1.2.5.2 Test Channel = MCH





4.1.2.5.3 Test Channel = HCH





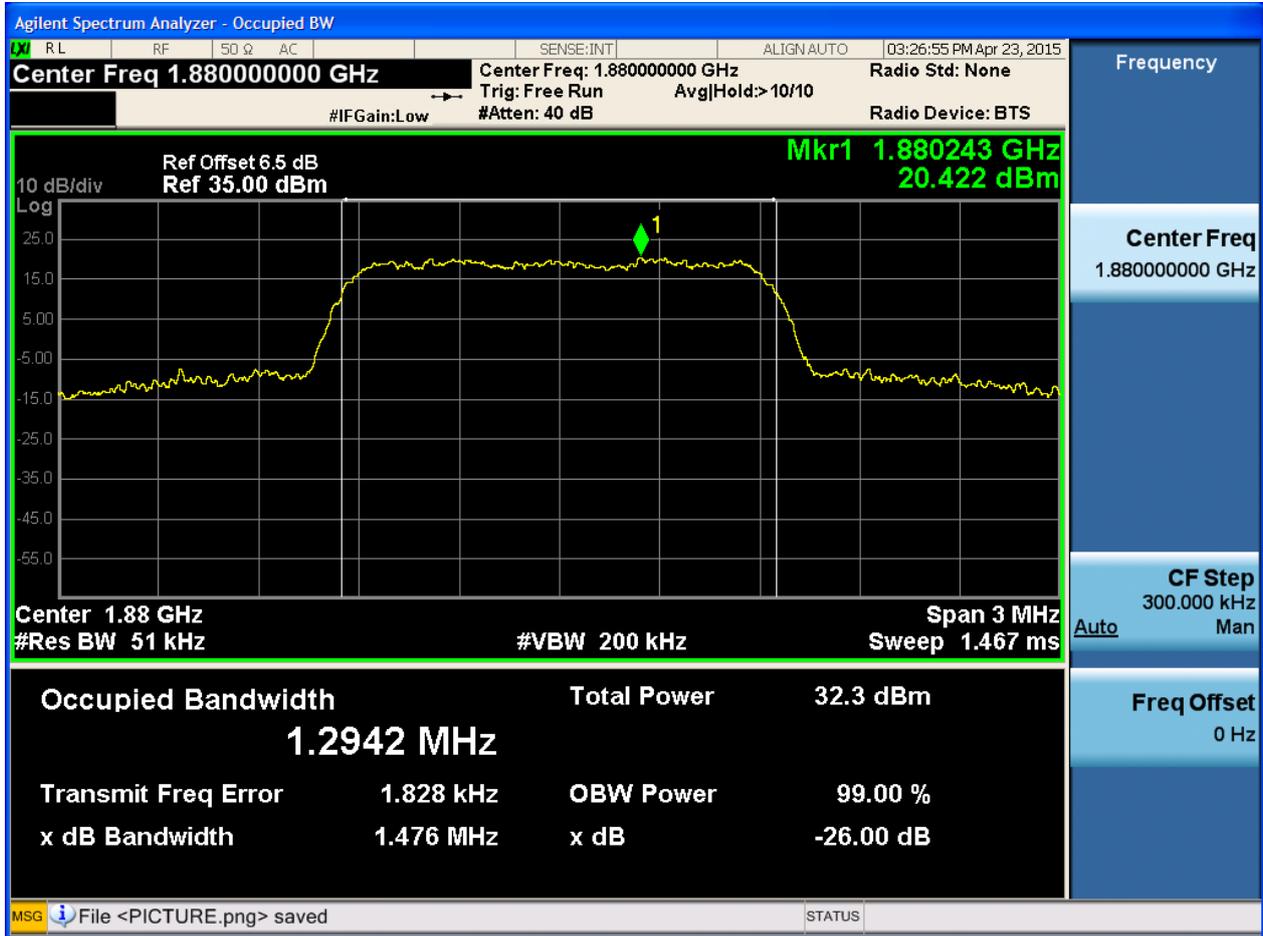
4.1.2.6 Test Mode = CDMA/EV-DO/Subtype2/12288

4.1.2.6.1 Test Channel = LCH



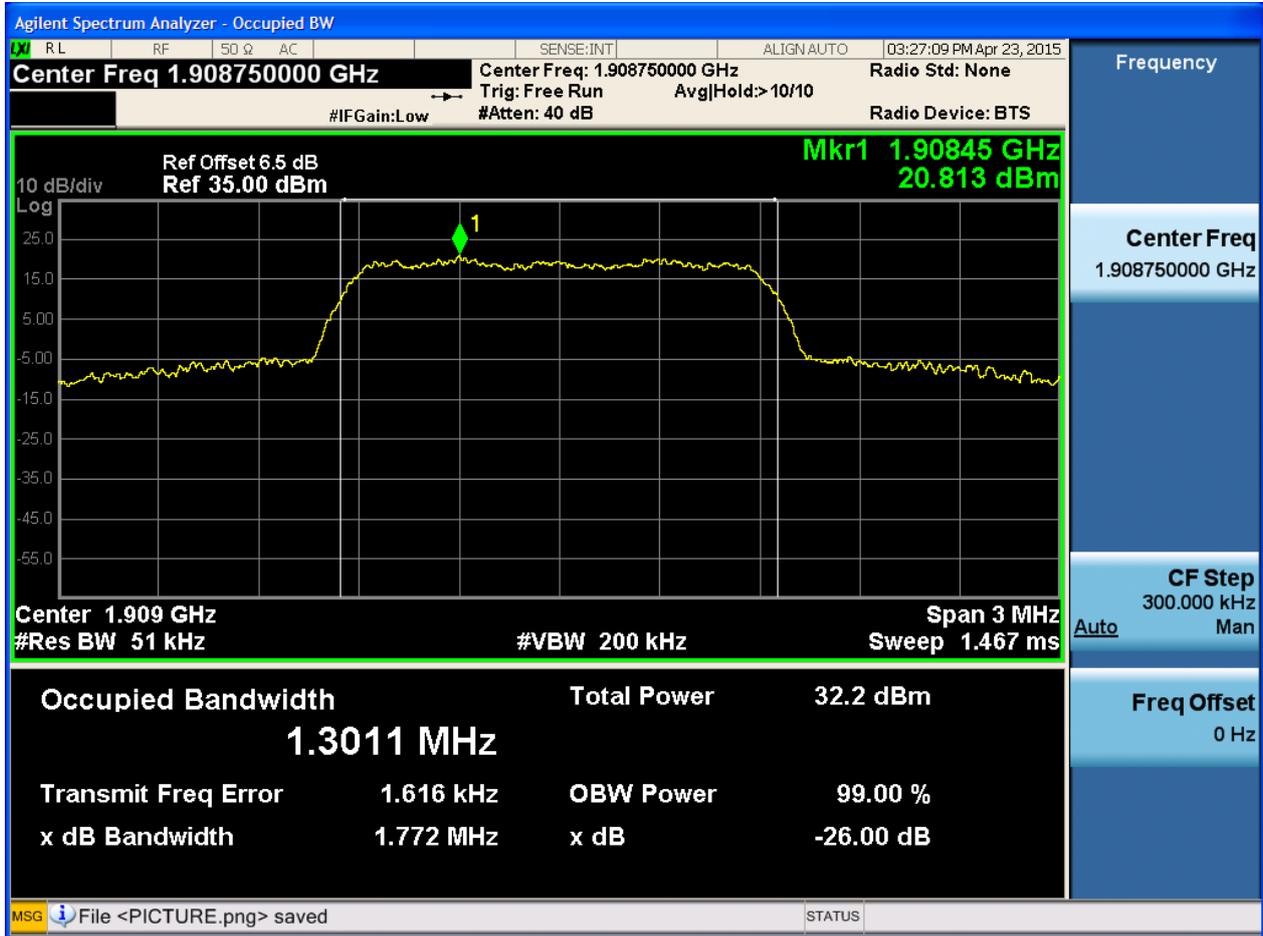


4.1.2.6.2 Test Channel = MCH





4.1.2.6.3 Test Channel = HCH



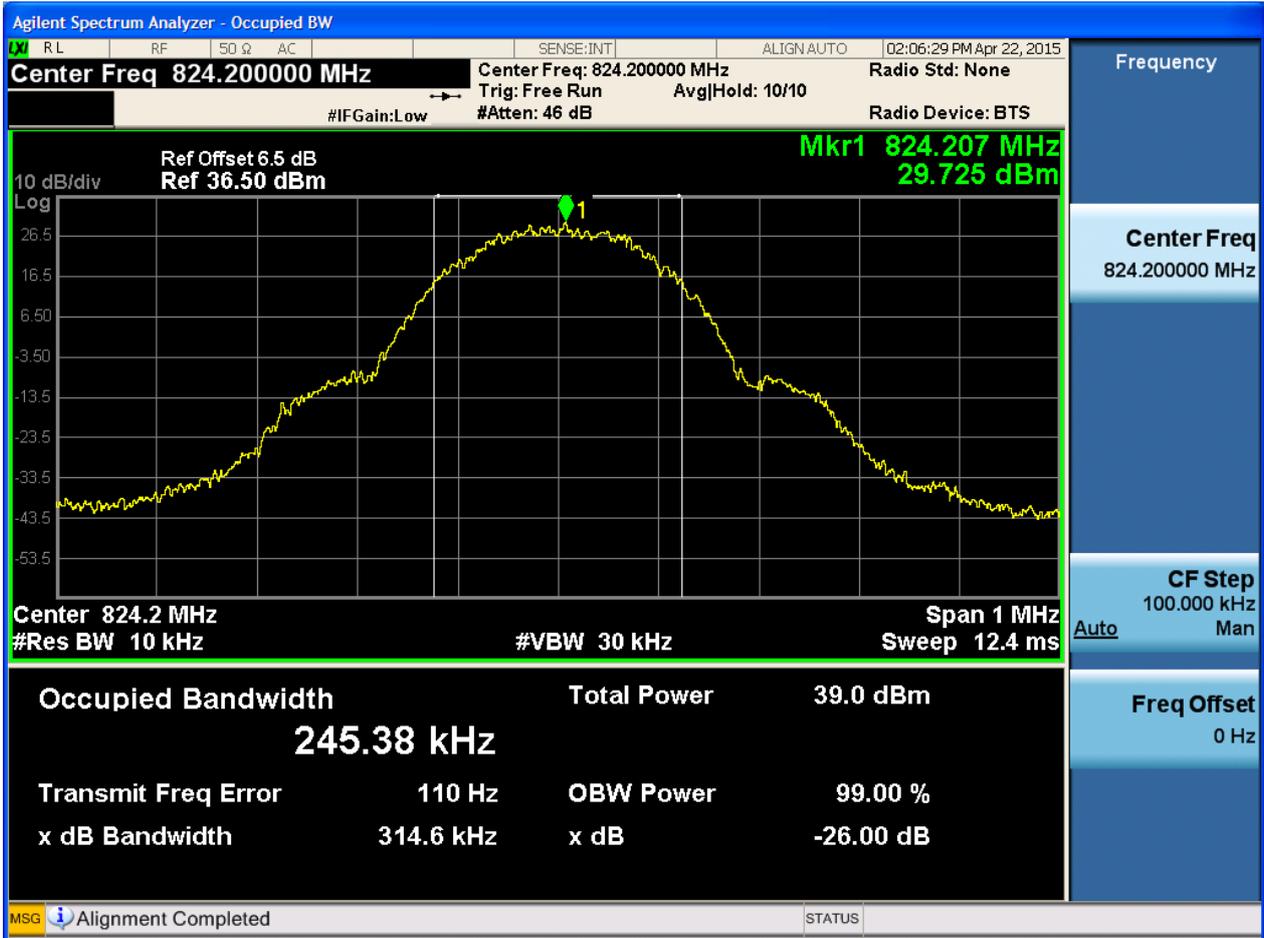


4.2 For GSM

4.2.1 Test Band = GSM850

4.2.1.1 Test Mode = GSM/TM1

4.2.1.1.1 Test Channel = LCH



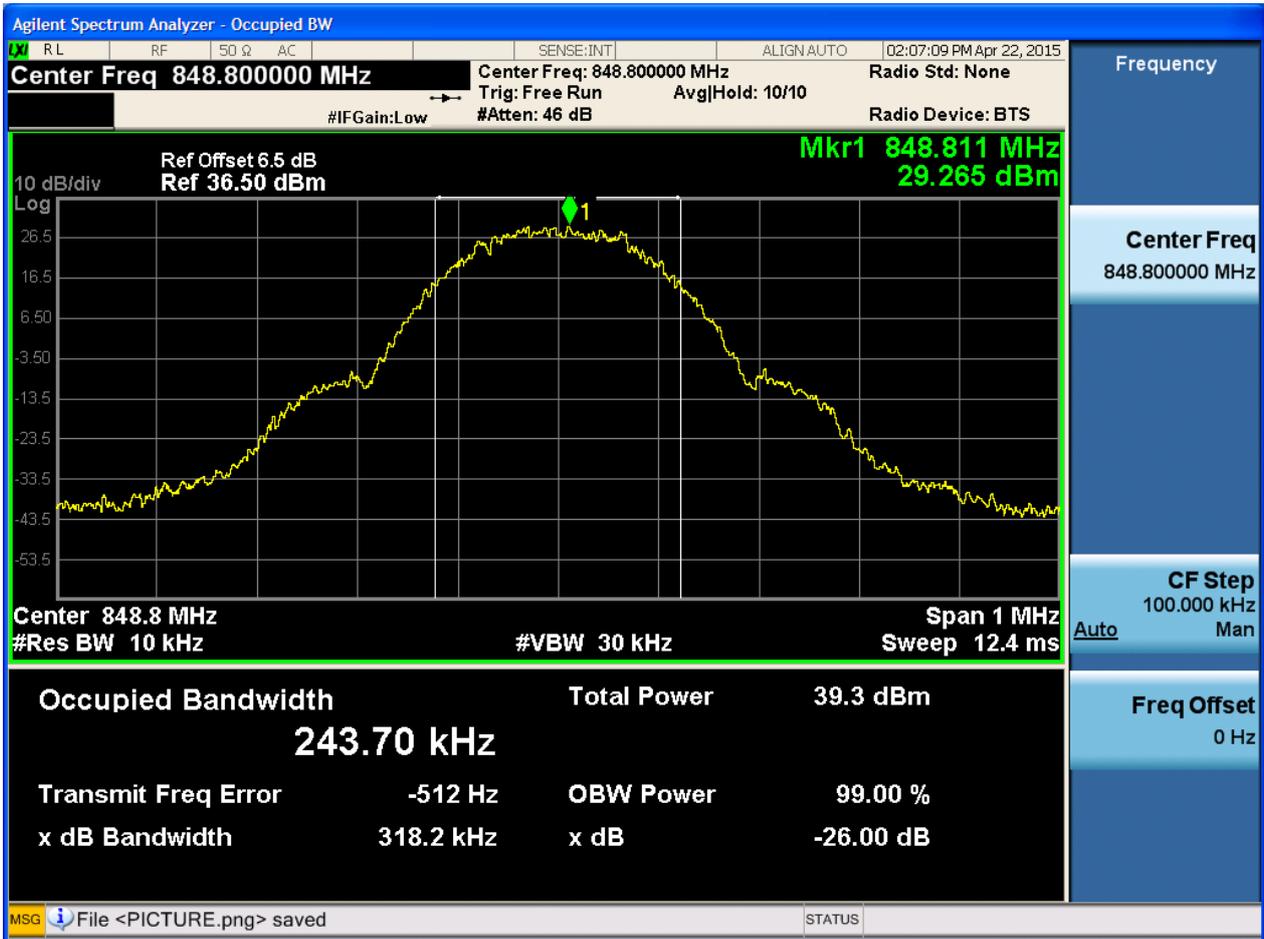


4.2.1.1.2 Test Channel = MCH





4.2.1.1.3 Test Channel = HCH





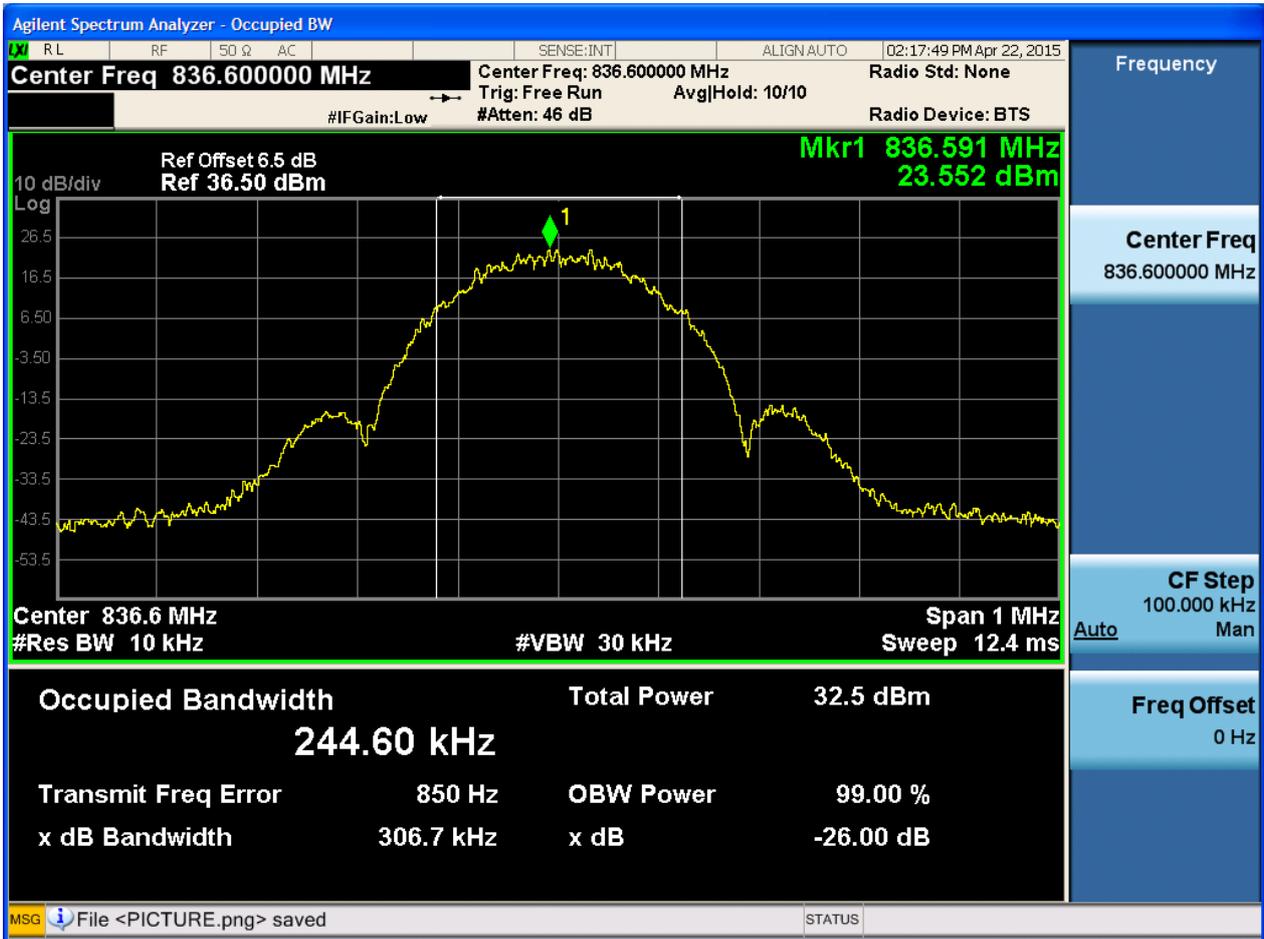
4.2.1.2 Test Mode = GSM/TM2

4.2.1.2.1 Test Channel = LCH



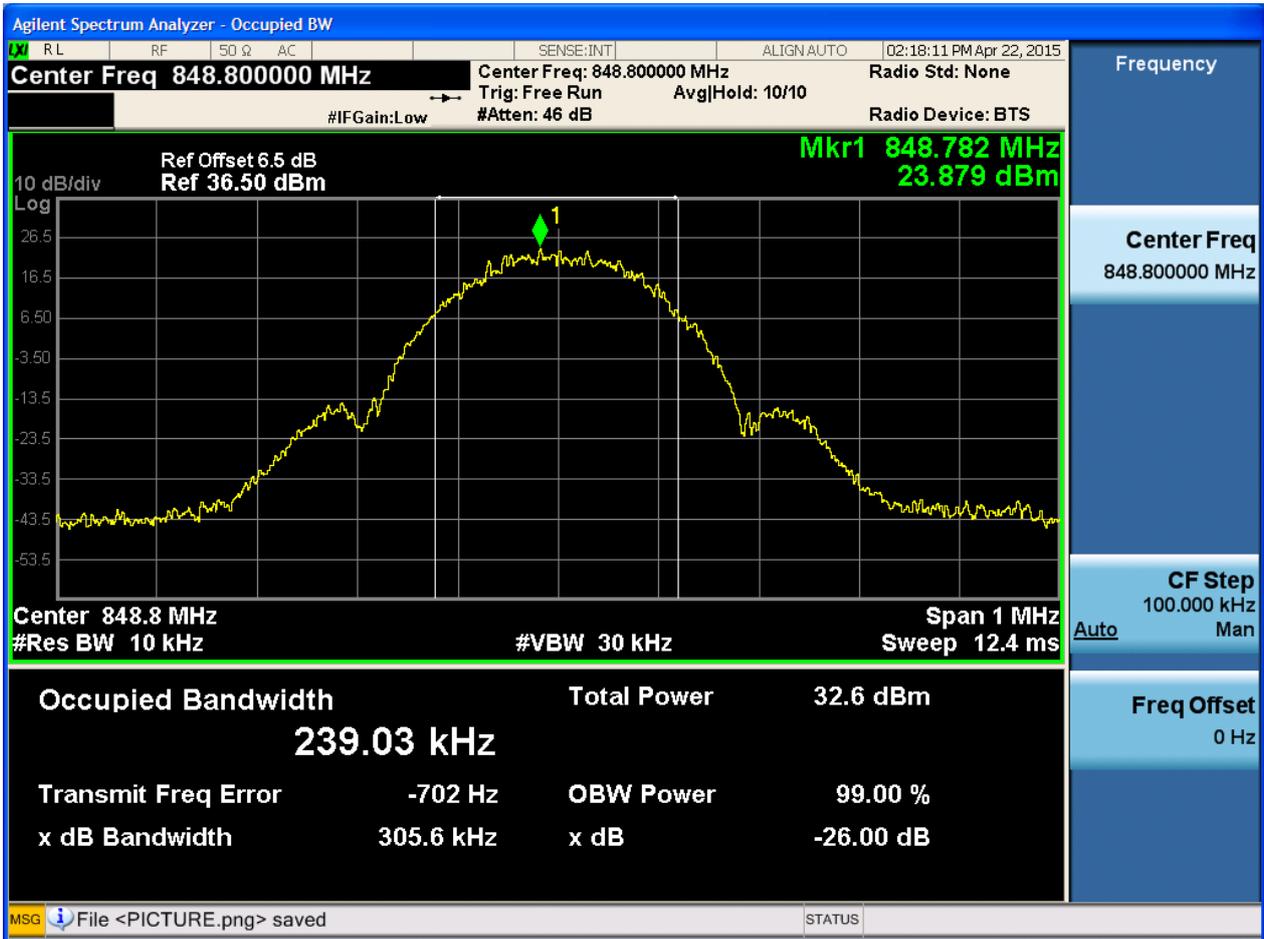


4.2.1.2.2 Test Channel = MCH





4.2.1.2.3 Test Channel = HCH

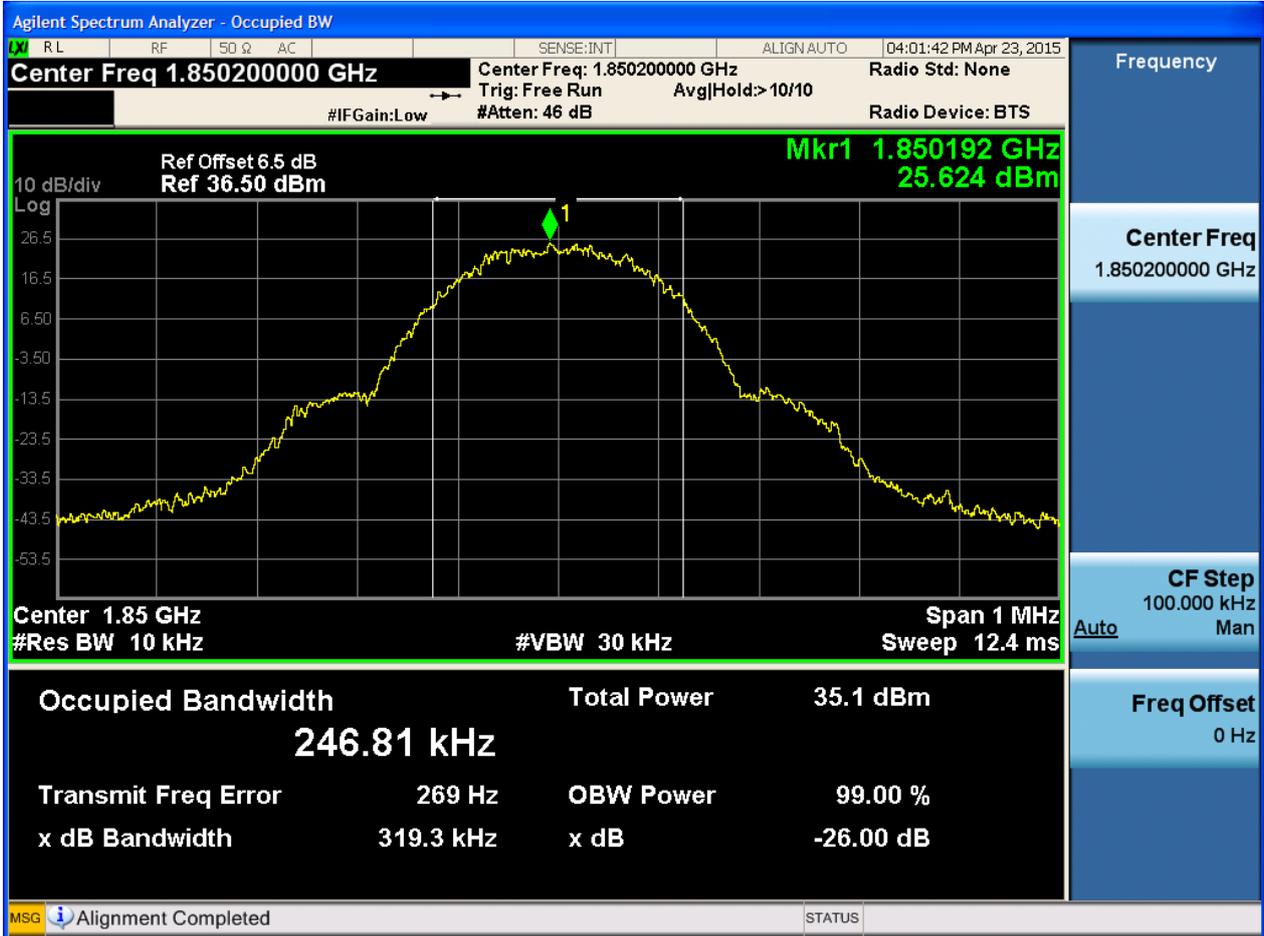




4.2.2 Test Band = GSM1900

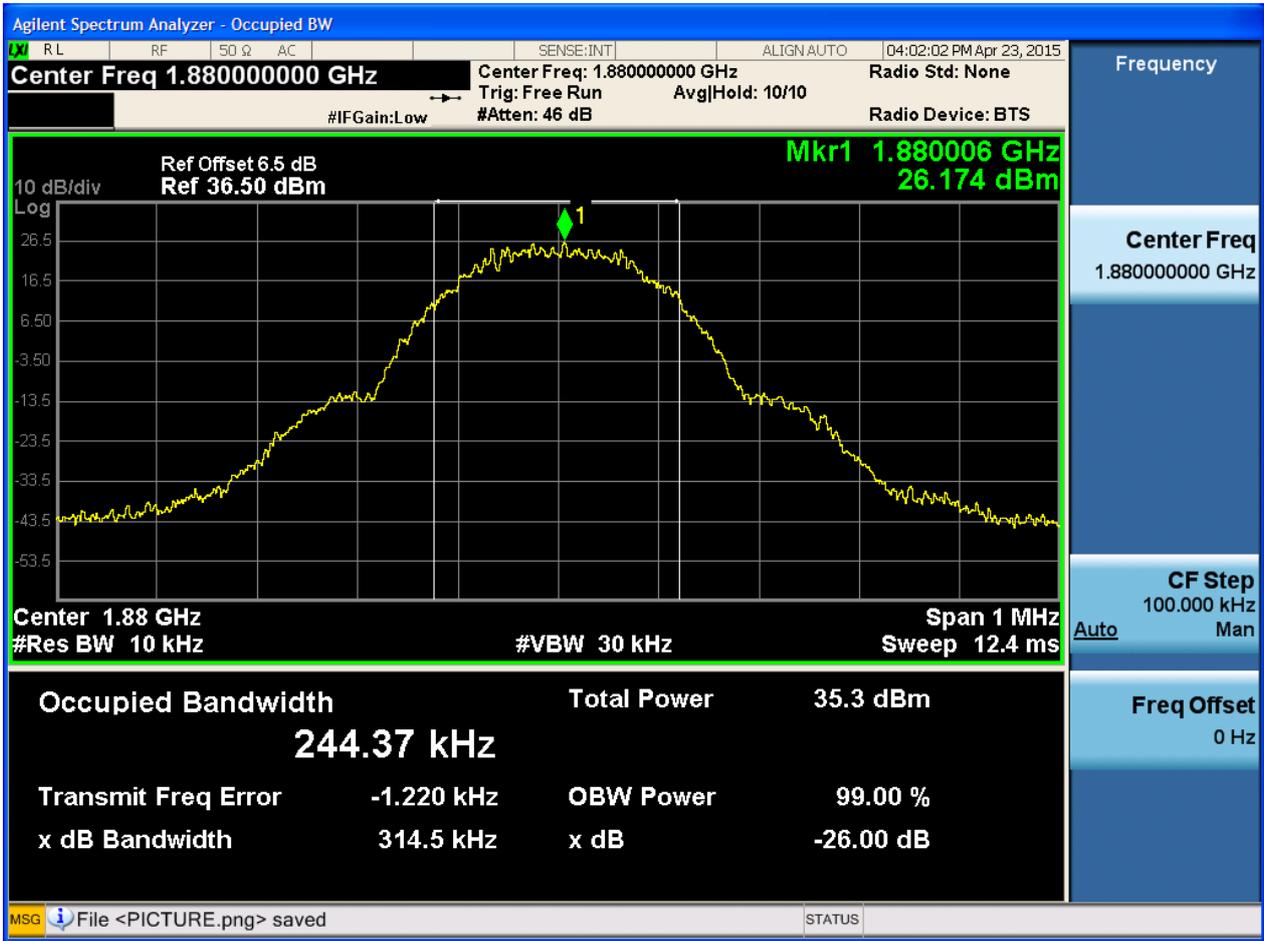
4.2.2.1 Test Mode = GSM/TM1

4.2.2.1.1 Test Channel = LCH



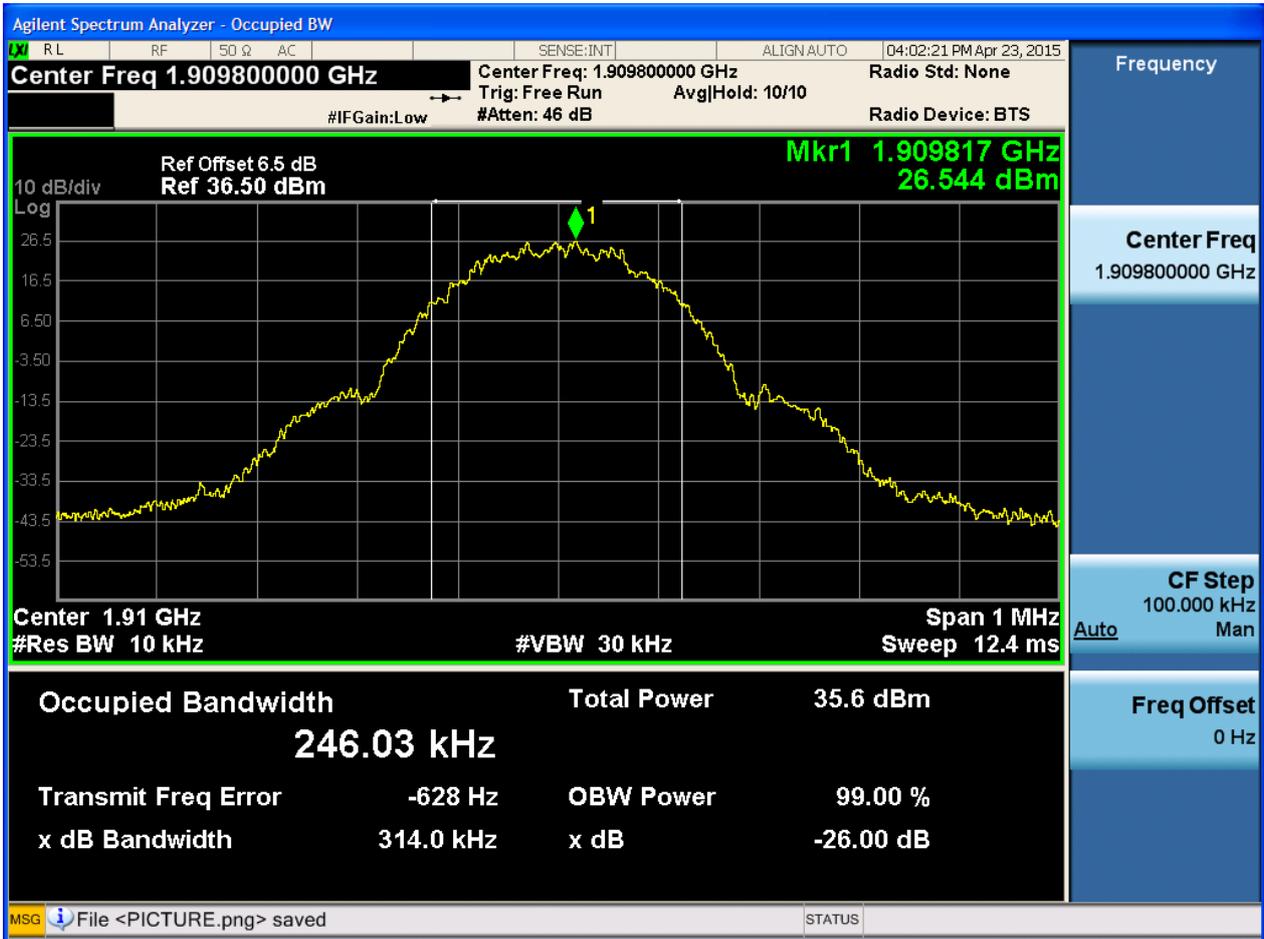


4.2.2.1.2 Test Channel = MCH





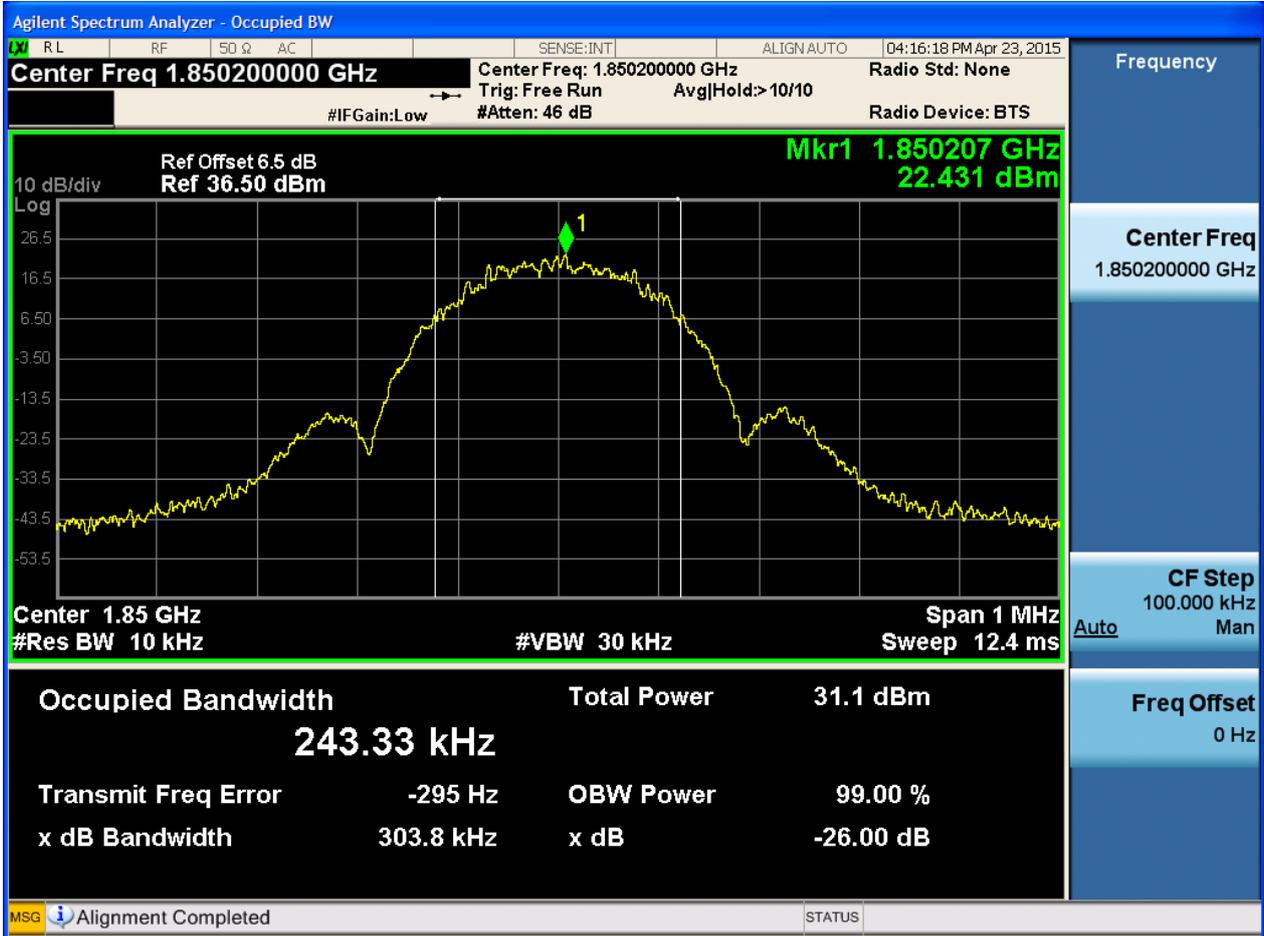
4.2.2.1.3 Test Channel = HCH





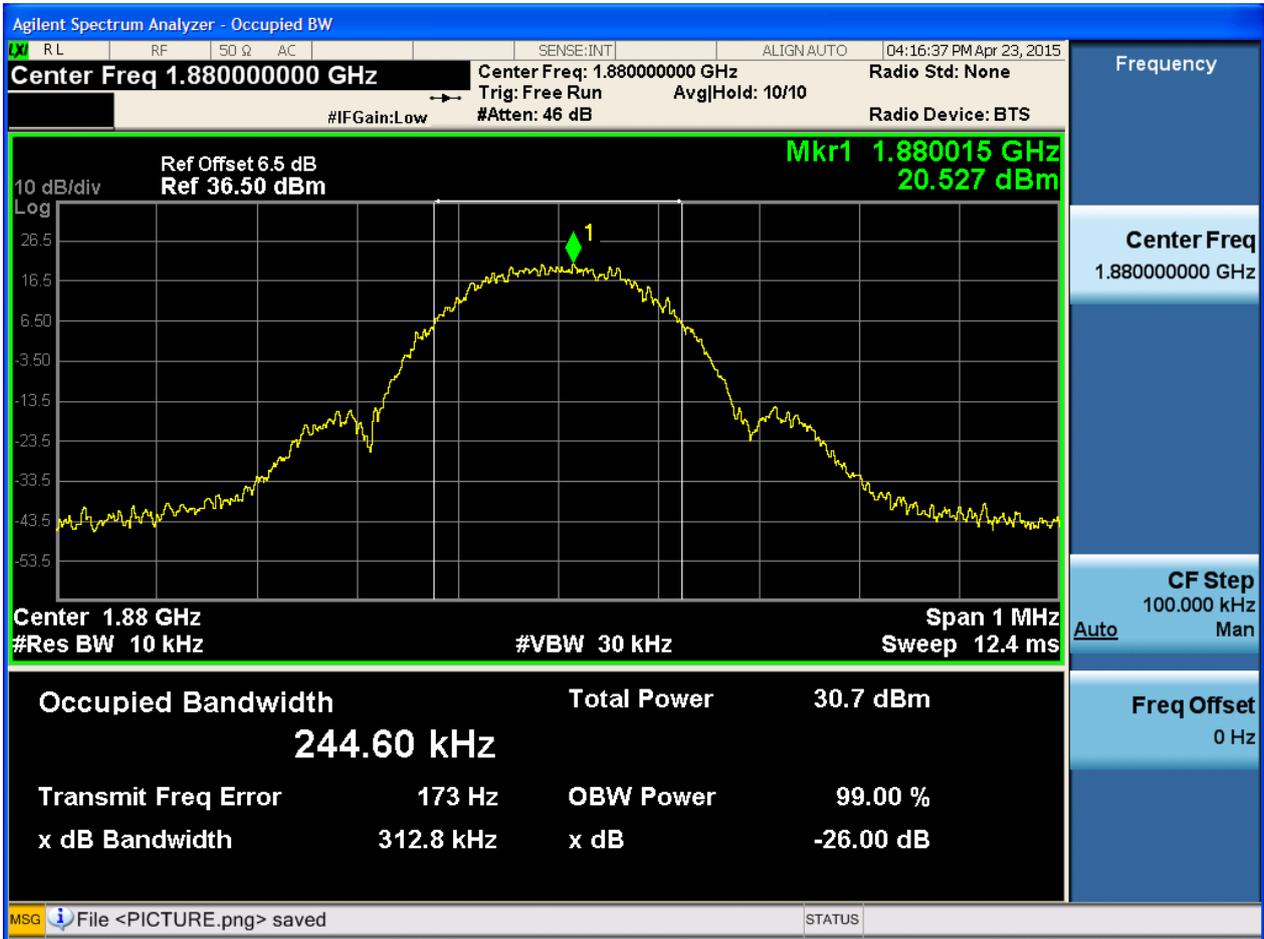
4.2.2.2 Test Mode = GSM/TM2

4.2.2.2.1 Test Channel = LCH



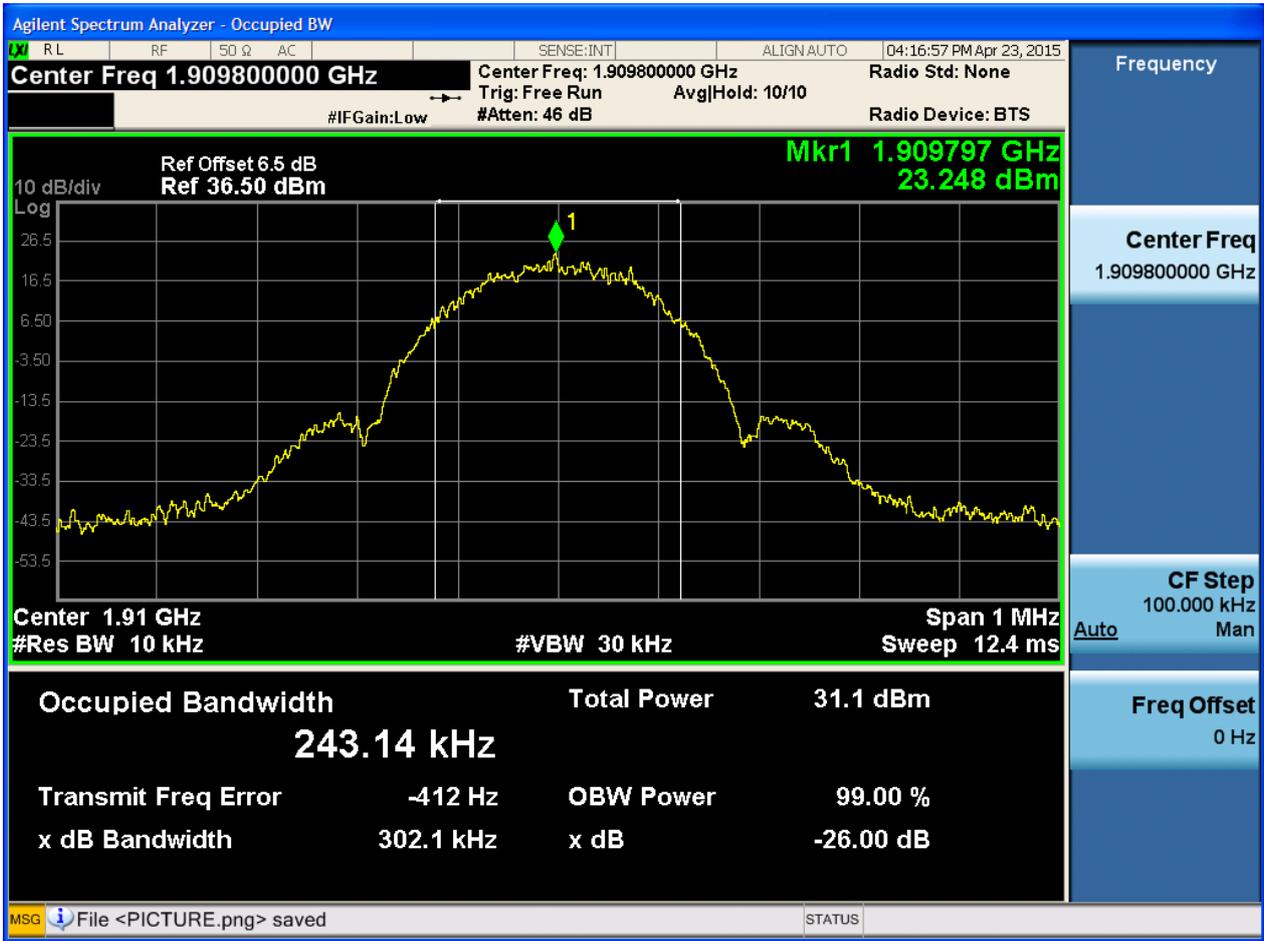


4.2.2.2.2 Test Channel = MCH





4.2.2.2.3 Test Channel = HCH



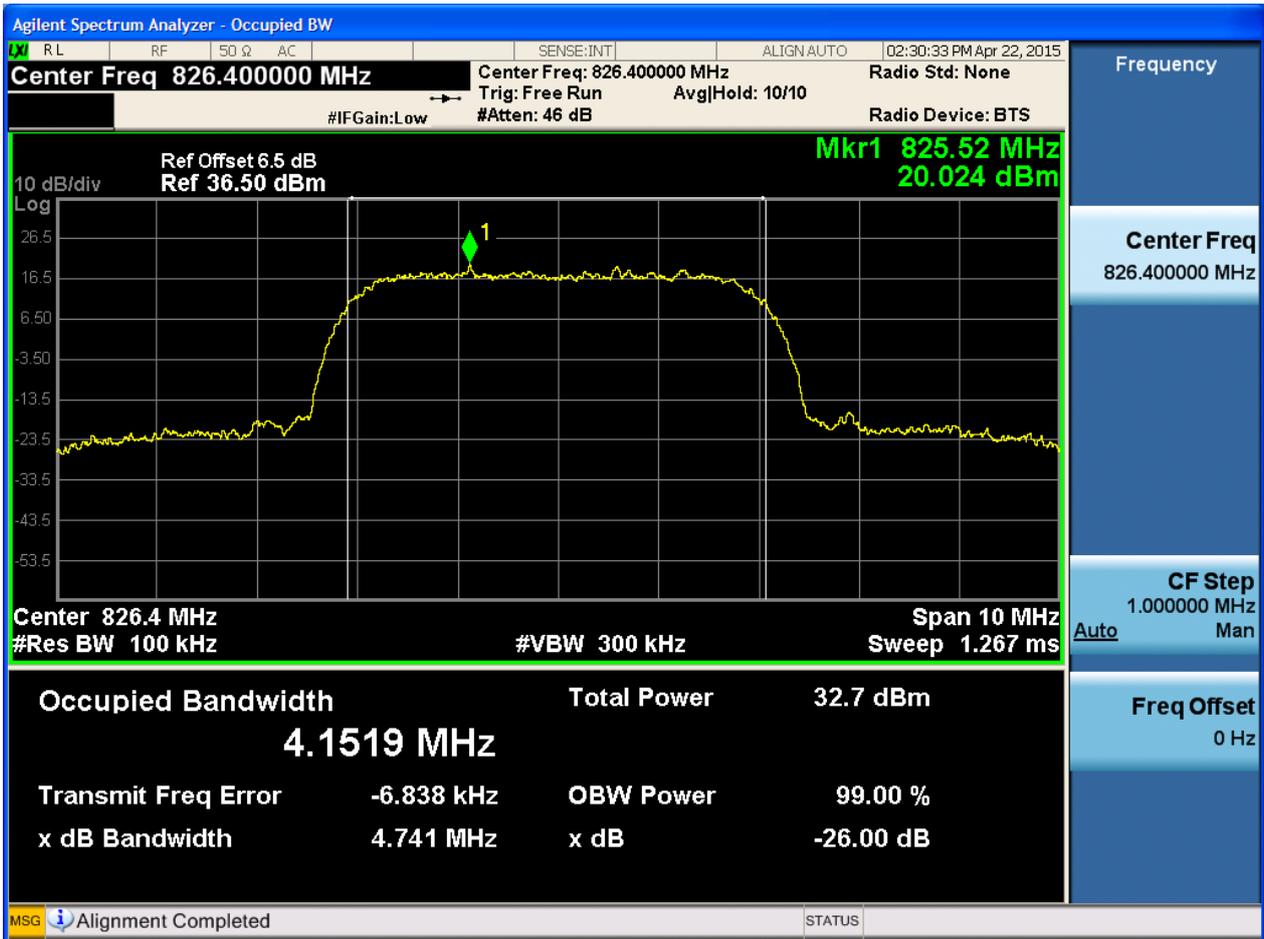


4.3 For UMTS

4.3.1 Test Band = WCDMA850

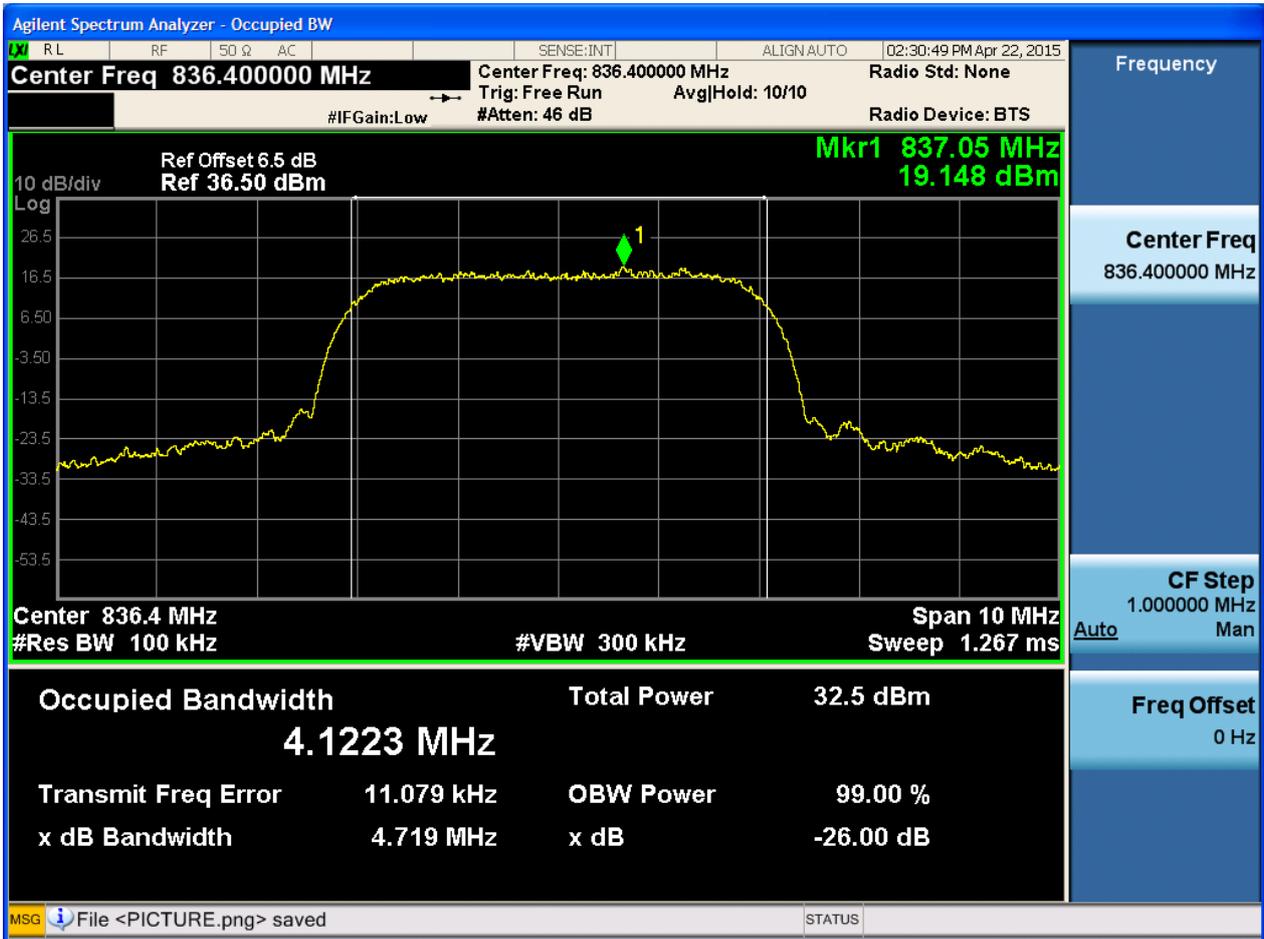
4.3.1.1 Test Mode = UMTS/TM1

4.3.1.1.1 Test Channel = LCH



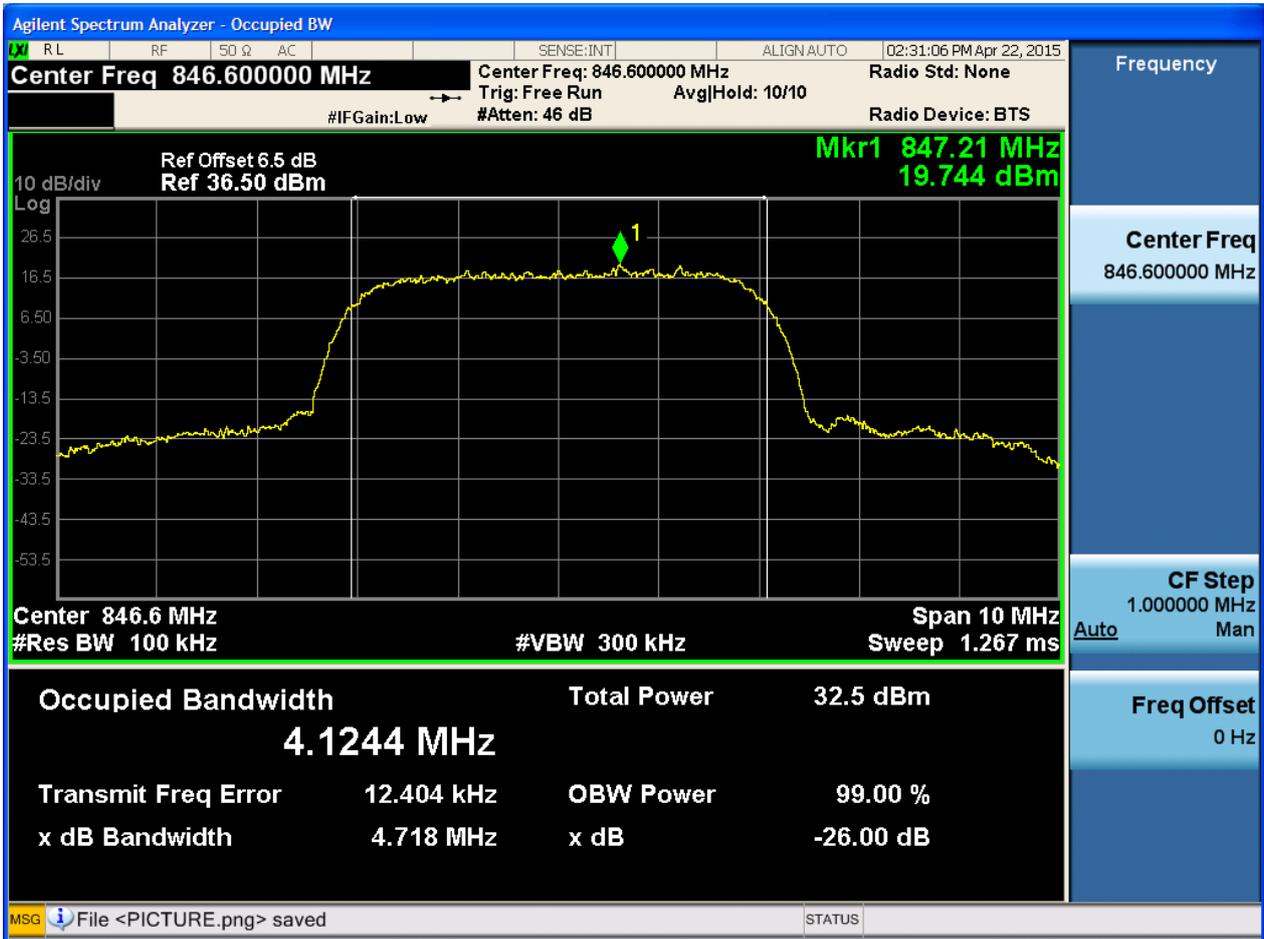


4.3.1.1.2 Test Channel = MCH





4.3.1.1.3 Test Channel = HCH

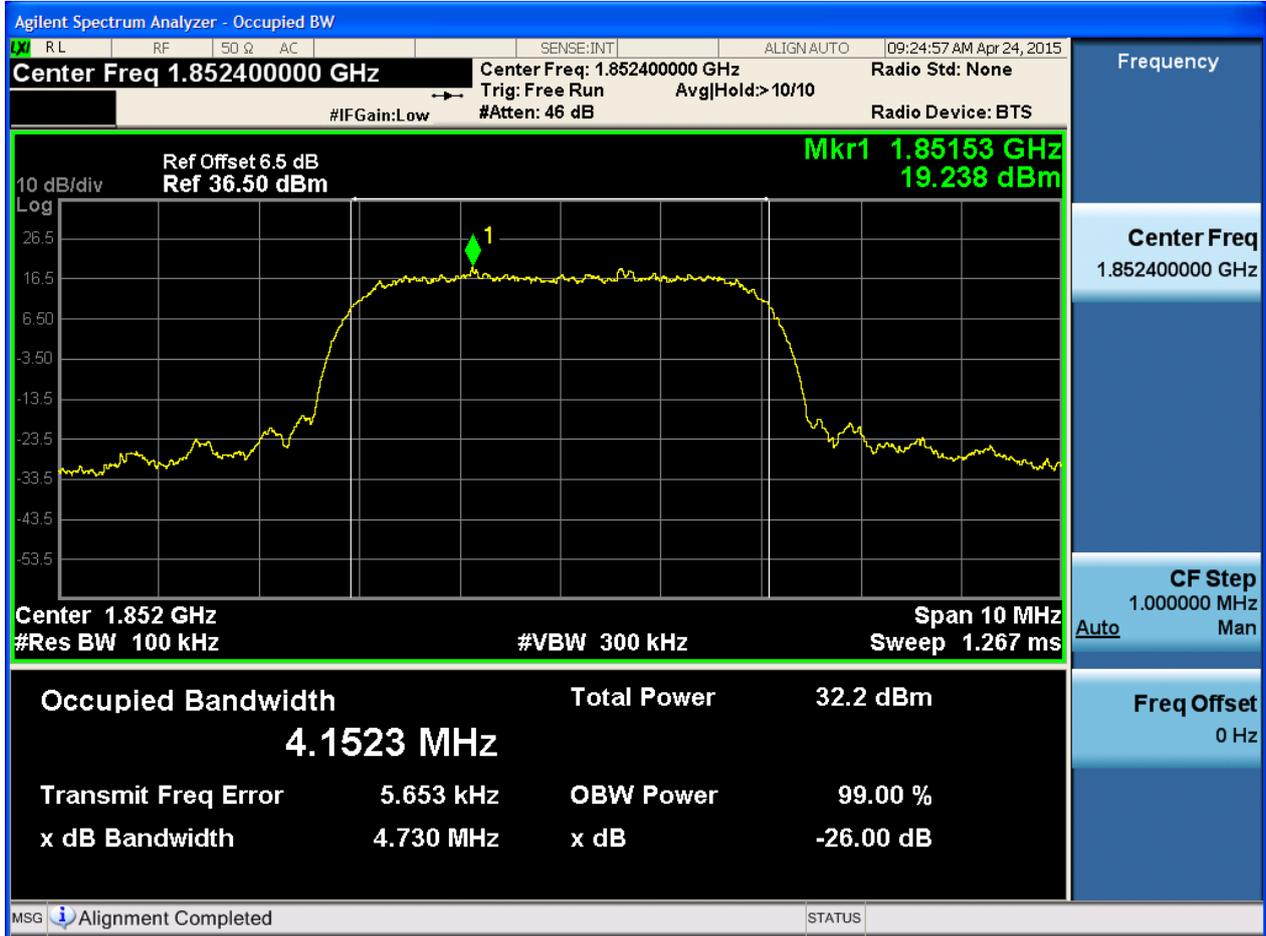




4.3.2 Test Band = WCDMA1900

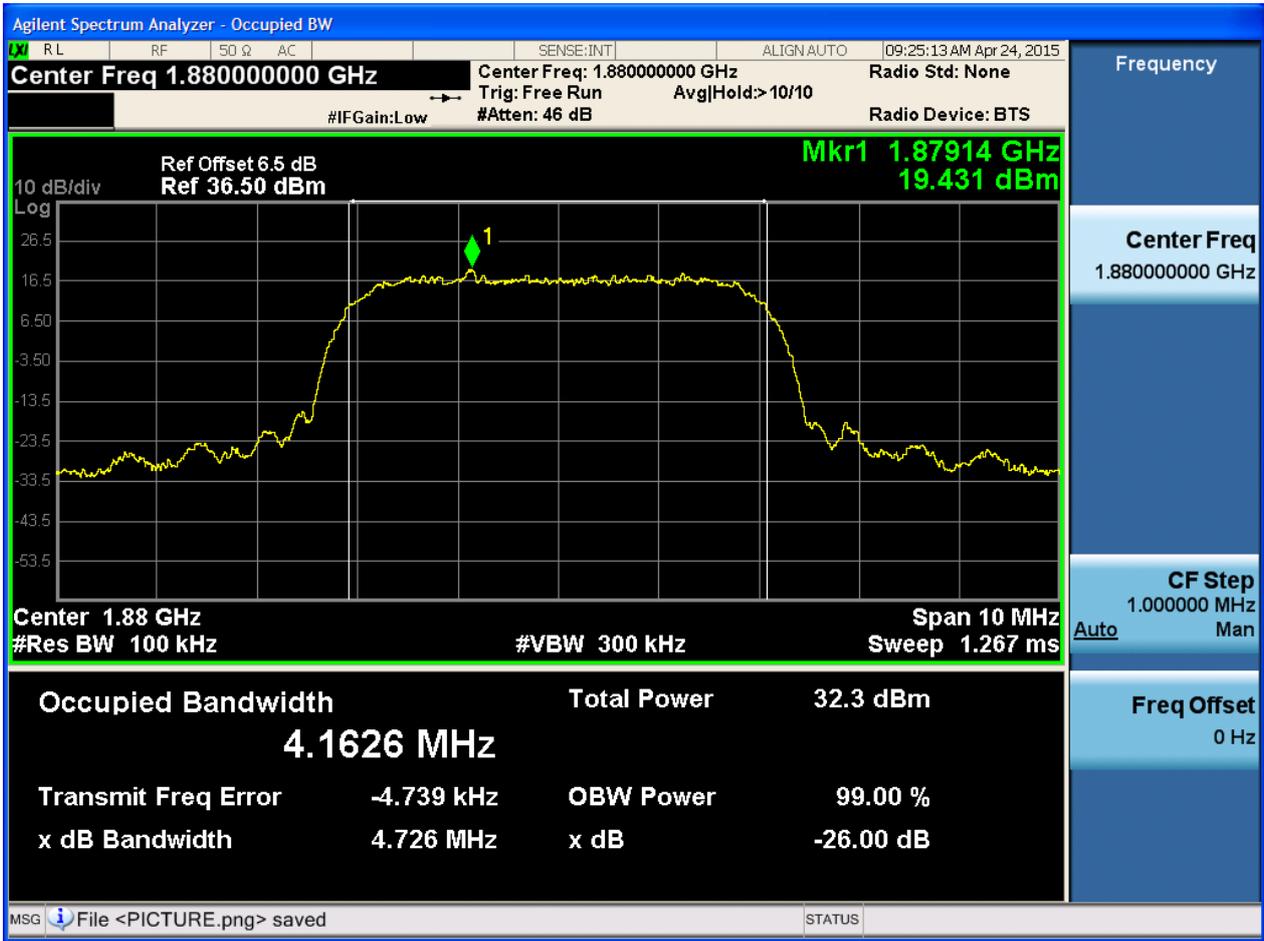
4.3.2.1 Test Mode = UMTS/TM1

4.3.2.1.1 Test Channel = LCH



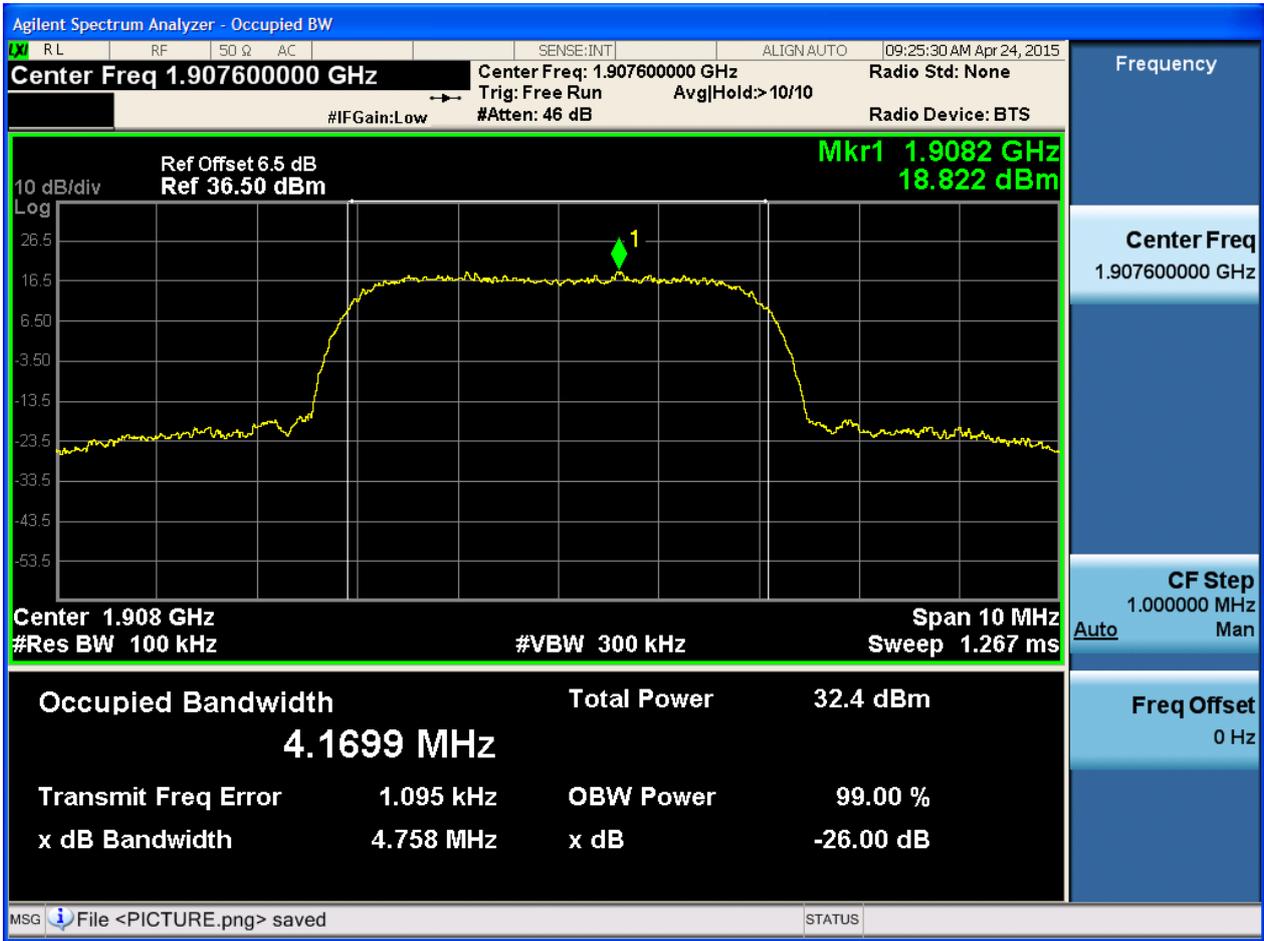


4.3.2.1.2 Test Channel = MCH





4.3.4.1.3 Test Channel = HCH





5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For CDMA/1X

5.1.1 Test Band = BC0

5.1.1.1 Test Mode = CDMA/1X/TM1

5.1.1.1.1 Test Channel = LCH





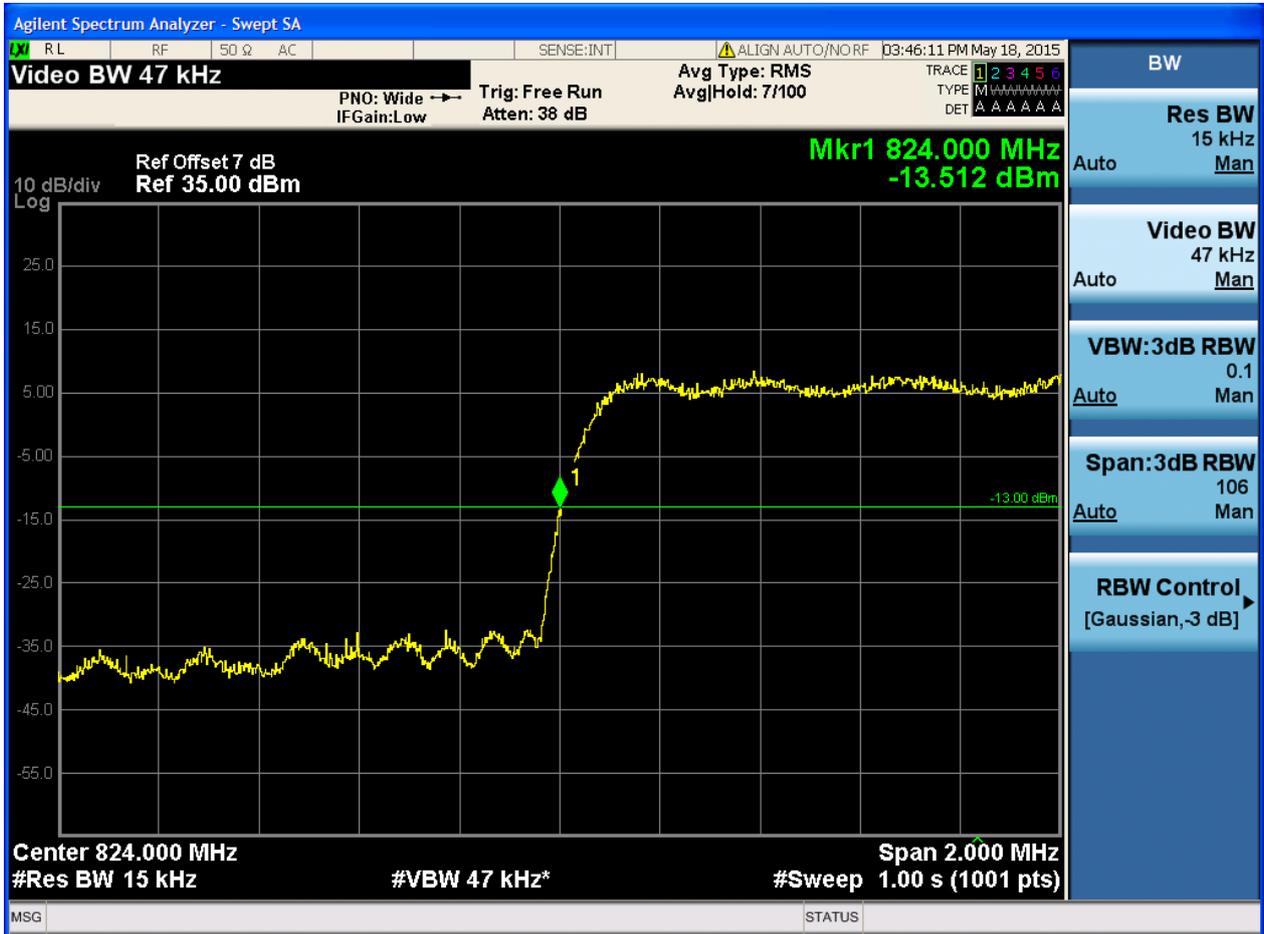
5.1.1.1.2 Test Channel = HCH





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

