



Appendix for Test report



1 Appendix_A: Transmit Output Power Data

Part I - Test Results

Adapter Mode

Test Band	Test Mode	Test Channel	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.39	32.36	38.5	PASS
		MCH	32.18	32.15	38.5	PASS
		HCH	31.97	31.83	38.5	PASS
	GSM/TM2	LCH	25.94	25.80	38.5	PASS
		MCH	25.98	25.83	38.5	PASS
		HCH	26.03	26.02	38.5	PASS
WCDMA850	UMTS/TM1	LCH	22.67	22.61	38.5	PASS
		MCH	22.92	22.84	38.5	PASS
		HCH	23.06	23.04	38.5	PASS
Test Band	Test Mode	Test Channel	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.11	31.91	33	PASS
		MCH	28.77	31.64	33	PASS
		HCH	28.87	31.75	33	PASS
	GSM/TM2	LCH	24.71	27.68	33	PASS
		MCH	24.79	27.67	33	PASS
		HCH	24.71	27.62	33	PASS
WCDMA1900	UMTS/TM1	LCH	22.36	25.29	33	PASS
		MCH	21.91	24.83	33	PASS
		HCH	21.61	24.43	33	PASS

Battery mode

Test Band	Test Mode	Test Channel	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	30.99	30.90	38.5	PASS
		MCH	30.98	30.84	38.5	PASS
		HCH	30.98	30.87	38.5	PASS
	GSM/TM2	LCH	26.04	26.00	38.5	PASS
		MCH	26.11	26.03	38.5	PASS
		HCH	26.08	26.02	38.5	PASS

Test Band	Test Mode	Test Channel	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
-----------	-----------	--------------	---------------	------------	-------------	---------



GSM1900	GSM/TM1	LCH	28.69	31.55	33	PASS
		MCH	28.62	31.58	33	PASS
		HCH	28.63	31.50	33	PASS
	GSM/TM2	LCH	25.14	28.08	33	PASS
		MCH	24.95	27.94	33	PASS
		HCH	24.61	27.43	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
BAND5	LTE/TM1	5	LCH	RB1#0	22.71	22.76	38.5	PASS
				RB1#13	23.3	23.16	38.5	PASS
				RB1#24	22.92	22.81	38.5	PASS
				RB12#0	22.1	22.00	38.5	PASS
				RB12#6	22.24	22.10	38.5	PASS
				RB12#13	22.27	22.20	38.5	PASS
			RB25#0	22.23	22.15	38.5	PASS	
			MCH	RB1#0	22.89	22.78	38.5	PASS
				RB1#13	22.95	22.91	38.5	PASS
				RB1#24	22.71	22.65	38.5	PASS
				RB12#0	22.19	22.10	38.5	PASS
				RB12#6	22.18	22.08	38.5	PASS
		RB12#13		22	21.99	38.5	PASS	
		RB25#0	22.21	22.12	38.5	PASS		
		HCH	RB1#0	22.77	22.67	38.5	PASS	
			RB1#13	23.33	23.29	38.5	PASS	
			RB1#24	22.58	22.55	38.5	PASS	
			RB12#0	22.2	22.17	38.5	PASS	
			RB12#6	22.42	22.40	38.5	PASS	
			RB12#13	22.2	22.11	38.5	PASS	
		RB25#0	22.13	21.98	38.5	PASS		
		10	LCH	RB1#0	22.62	22.47	38.5	PASS
				RB1#25	23.33	23.31	38.5	PASS
				RB1#49	23.07	23.04	38.5	PASS
RB25#0	21.98			21.94	38.5	PASS		
RB25#13	22.19			22.17	38.5	PASS		
RB25#25	21.95			21.84	38.5	PASS		
RB50#0	22.02		21.93	38.5	PASS			
MCH	RB1#0		22.65	22.50	38.5	PASS		
	RB1#25		23.11	23.06	38.5	PASS		
	RB1#49		22.78	22.75	38.5	PASS		
	RB25#0		22.01	21.93	38.5	PASS		



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	21.62	26.78	33	PASS
				RB1#13	21.86	26.96	33	PASS
				RB1#24	21.57	26.74	33	PASS
				RB12#0	21.25	26.42	33	PASS
				RB12#6	21.31	26.49	33	PASS
				RB12#13	21.27	26.31	33	PASS
				RB25#0	21.24	26.31	33	PASS
			MCH	RB1#0	21.27	26.37	33	PASS
				RB1#13	21.82	26.86	33	PASS
				RB1#24	21.57	26.72	33	PASS
				RB12#0	21.01	26.03	33	PASS
				RB12#6	21.17	26.20	33	PASS
				RB12#13	21.36	26.47	33	PASS
				RB25#0	21.28	26.37	33	PASS
			HCH	RB1#0	21.09	26.16	33	PASS
				RB1#13	21.4	26.42	33	PASS
				RB1#24	21.02	26.14	33	PASS
				RB12#0	20.96	26.14	33	PASS
				RB12#6	21.05	26.13	33	PASS
RB12#13	20.97	26.06		33	PASS			
RB25#0	20.93	26.11		33	PASS			
10	LCH	RB1#0	21.27	26.36	33	PASS		
		RB1#25	22.09	27.22	33	PASS		
		RB1#49	21.59	26.69	33	PASS		
		RB25#0	21.16	26.29	33	PASS		
		RB25#13	21.42	26.60	33	PASS		
		RB25#25	21.1	26.25	33	PASS		
		RB50#0	21.06	26.21	33	PASS		



		MCH	RB1#0	21.09	26.22	33	PASS
			RB1#25	22	27.05	33	PASS
			RB1#49	21.67	26.84	33	PASS
			RB25#0	20.9	26.00	33	PASS
			RB25#13	21.35	26.44	33	PASS
			RB25#25	21.17	26.17	33	PASS
			RB50#0	21.09	26.21	33	PASS
		HCH	RB1#0	21.13	26.28	33	PASS
			RB1#25	21.63	26.66	33	PASS
			RB1#49	21.3	26.42	33	PASS
			RB25#0	20.84	25.98	33	PASS
			RB25#13	21.03	26.04	33	PASS
			RB25#25	20.82	25.89	33	PASS
			RB50#0	20.82	26.00	33	PASS
	15	LCH	RB1#0	21.47	26.52	33	PASS
			RB1#38	21.93	26.93	33	PASS
			RB1#74	21.63	26.82	33	PASS
			RB36#0	21.33	26.41	33	PASS
			RB36#18	21.51	26.71	33	PASS
			RB36#39	21.24	26.28	33	PASS
			RB75#0	21.23	26.28	33	PASS
		MCH	RB1#0	21.16	26.21	33	PASS
			RB1#38	21.89	26.97	33	PASS
			RB1#74	22.06	27.18	33	PASS
			RB36#0	21.06	26.21	33	PASS
			RB36#18	21.28	26.29	33	PASS
			RB36#39	21.38	26.54	33	PASS
			RB75#0	21.25	26.36	33	PASS
	HCH	RB1#0	21.35	26.54	33	PASS	
		RB1#38	21.6	26.73	33	PASS	
RB1#74		21.4	26.48	33	PASS		
RB36#0		21	26.19	33	PASS		
RB36#18		21.14	26.18	33	PASS		
RB36#39		21.06	26.15	33	PASS		
RB75#0		21.1	26.25	33	PASS		
20	LCH	RB1#0	21.53	26.61	33	PASS	
		RB1#50	21.92	26.94	33	PASS	
		RB1#99	21.37	26.45	33	PASS	
		RB50#0	21.27	26.32	33	PASS	
		RB50#25	21.31	26.38	33	PASS	
		RB50#50	21.08	26.10	33	PASS	



				RB100#0	21.11	26.19	33	PASS
			MCH	RB1#0	21.21	26.36	33	PASS
				RB1#50	22.02	27.18	33	PASS
				RB1#99	21.91	27.03	33	PASS
				RB50#0	21.13	26.21	33	PASS
				RB50#25	21.35	26.40	33	PASS
				RB50#50	21.49	26.57	33	PASS
				RB100#0	21.24	26.35	33	PASS
			HCH	RB1#0	21.46	26.60	33	PASS
				RB1#50	21.73	26.91	33	PASS
				RB1#99	21.53	26.70	33	PASS
				RB50#0	21.12	26.15	33	PASS
				RB50#25	21.16	26.26	33	PASS
				RB50#50	20.97	26.16	33	PASS
	RB100#0	21.09		26.21	33	PASS		
	LTE/TM2	5	LCH	RB1#0	21.2	26.21	33	PASS
				RB1#13	21.48	26.61	33	PASS
				RB1#24	21.19	26.33	33	PASS
				RB12#0	20.75	25.76	33	PASS
				RB12#6	20.85	25.85	33	PASS
				RB12#13	20.8	25.98	33	PASS
				RB25#0	20.64	25.82	33	PASS
			MCH	RB1#0	20.94	26.09	33	PASS
				RB1#13	21.46	26.63	33	PASS
				RB1#24	21.18	26.21	33	PASS
				RB12#0	20.69	25.85	33	PASS
				RB12#6	20.89	25.96	33	PASS
				RB12#13	20.92	26.03	33	PASS
RB25#0				20.81	25.88	33	PASS	
HCH	RB1#0	20.87	25.91	33	PASS			
	RB1#13	21.24	26.40	33	PASS			
	RB1#24	20.85	25.96	33	PASS			
	RB12#0	20.62	25.62	33	PASS			
	RB12#6	20.73	25.76	33	PASS			
	RB12#13	20.68	25.74	33	PASS			
	RB25#0	20.57	25.75	33	PASS			
10	LCH	RB1#0	21.21	26.27	33	PASS		
		RB1#25	22	27.03	33	PASS		
		RB1#49	21.51	26.63	33	PASS		
		RB25#0	20.72	25.84	33	PASS		
		RB25#13	20.96	25.96	33	PASS		



				RB25#25	20.63	25.82	33	PASS
				RB50#0	20.58	25.63	33	PASS
			MCH	RB1#0	20.92	25.98	33	PASS
				RB1#25	21.84	27.01	33	PASS
				RB1#49	21.59	26.72	33	PASS
				RB25#0	20.42	25.52	33	PASS
				RB25#13	20.86	26.05	33	PASS
				RB25#25	20.64	25.80	33	PASS
			RB50#0	20.55	25.58	33	PASS	
			HCH	RB1#0	20.82	26.00	33	PASS
				RB1#25	21.42	26.61	33	PASS
				RB1#49	21.09	26.21	33	PASS
				RB25#0	20.42	25.45	33	PASS
				RB25#13	20.64	25.83	33	PASS
	RB25#25	20.45		25.57	33	PASS		
	RB50#0	20.37	25.54	33	PASS			
	15	LCH	RB1#0	21.33	26.37	33	PASS	
			RB1#38	21.65	26.69	33	PASS	
			RB1#74	21.43	26.51	33	PASS	
			RB36#0	20.74	25.75	33	PASS	
			RB36#18	20.93	26.10	33	PASS	
			RB36#39	20.72	25.84	33	PASS	
			RB75#0	20.7	25.88	33	PASS	
		MCH	RB1#0	20.85	25.98	33	PASS	
			RB1#38	21.61	26.68	33	PASS	
			RB1#74	21.64	26.70	33	PASS	
			RB36#0	20.49	25.50	33	PASS	
			RB36#18	20.71	25.74	33	PASS	
RB36#39			20.8	25.98	33	PASS		
RB75#0			20.68	25.71	33	PASS		
HCH	RB1#0	21.03	26.18	33	PASS			
	RB1#38	21.35	26.44	33	PASS			
	RB1#74	21.18	26.33	33	PASS			
	RB36#0	20.55	25.62	33	PASS			
	RB36#18	20.66	25.69	33	PASS			
	RB36#39	20.59	25.74	33	PASS			
	RB75#0	20.58	25.66	33	PASS			
20	LCH	RB1#0	21.23	26.31	33	PASS		
		RB1#50	21.52	26.63	33	PASS		
		RB1#99	21.05	26.09	33	PASS		
		RB50#0	20.71	25.88	33	PASS		

				RB50#25	20.74	25.76	33	PASS
				RB50#50	20.54	25.59	33	PASS
				RB100#0	20.55	25.64	33	PASS
			MCH	RB1#0	20.83	25.87	33	PASS
				RB1#50	21.59	26.66	33	PASS
				RB1#99	21.49	26.55	33	PASS
				RB50#0	20.52	25.55	33	PASS
				RB50#25	20.73	25.83	33	PASS
				RB50#50	20.86	26.04	33	PASS
				RB100#0	20.63	25.77	33	PASS
			HCH	RB1#0	21.18	26.23	33	PASS
				RB1#50	21.51	26.68	33	PASS
				RB1#99	21.44	26.48	33	PASS
				RB50#0	20.6	25.60	33	PASS
				RB50#25	20.64	25.65	33	PASS
				RB50#50	20.5	25.65	33	PASS
				RB100#0	20.61	25.64	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,

$$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

$$EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]$$

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

Adapter Mode

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	0.49	13	PASS
		MCH	0.5	13	PASS
		HCH	0.48	13	PASS
	GSM/TM2	LCH	2.96	13	PASS
		MCH	2.99	13	PASS
		HCH	3.14	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	3.22	13	PASS
		MCH	3.33	13	PASS
		HCH	3.07	13	PASS

Battery Mode

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	0.73	13	PASS
		MCH	0.8	13	PASS
		HCH	0.74	13	PASS
	GSM/TM2	LCH	2.79	13	PASS
		MCH	2.88	13	PASS
		HCH	3.12	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
BAND5	LTE/TM1	5	LCH	RB1#0	3.77	13	PASS
				RB1#13	3.39	13	PASS
				RB1#24	3.72	13	PASS
				RB12#0	3.99	13	PASS
				RB12#6	4.02	13	PASS
				RB12#13	4.21	13	PASS
			MCH	RB25#0	5.28	13	PASS
				RB1#0	3.81	13	PASS
				RB1#13	3.51	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
				RB1#24	3.74	13	PASS
				RB12#0	4.11	13	PASS
				RB12#6	4.07	13	PASS
				RB12#13	4.17	13	PASS
				RB25#0	4.62	13	PASS
			HCH	RB1#0	3.7	13	PASS
				RB1#13	3.42	13	PASS
				RB1#24	3.39	13	PASS
				RB12#0	4.29	13	PASS
				RB12#6	4.24	13	PASS
				RB12#13	4.04	13	PASS
				RB25#0	4.54	13	PASS
		LCH	RB1#0	3.6	13	PASS	
			RB1#25	3.54	13	PASS	
			RB1#49	3.56	13	PASS	
			RB25#0	4.26	13	PASS	
			RB25#13	4.21	13	PASS	
			RB25#25	4.39	13	PASS	
			RB50#0	5.13	13	PASS	
		MCH	RB1#0	3.61	13	PASS	
			RB1#25	3.34	13	PASS	
			RB1#49	3.63	13	PASS	
			RB25#0	4.31	13	PASS	
			RB25#13	4.16	13	PASS	
	RB25#25		4.27	13	PASS		
	RB50#0		5.16	13	PASS		
	HCH	RB1#0	3.74	13	PASS		
		RB1#25	3.53	13	PASS		
		RB1#49	3.56	13	PASS		
		RB25#0	4.31	13	PASS		
RB25#13		4.27	13	PASS			
RB25#25		4.35	13	PASS			
RB50#0		5.21	13	PASS			
LCH	RB1#0	4.42	13	PASS			
	RB1#13	4.24	13	PASS			
	RB1#24	4.07	13	PASS			
	RB12#0	4.41	13	PASS			
	RB12#6	4.59	13	PASS			
	RB12#13	4.58	13	PASS			
	RB25#0	5.13	13	PASS			
	LTE/TM2	5	LCH	RB1#0	4.42	13	PASS
				RB1#13	4.24	13	PASS
				RB1#24	4.07	13	PASS
				RB12#0	4.41	13	PASS
				RB12#6	4.59	13	PASS
				RB12#13	4.58	13	PASS
				RB25#0	5.13	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.3	13	PASS
				RB1#13	4.35	13	PASS
				RB1#24	3.9	13	PASS
				RB12#0	4.5	13	PASS
				RB12#6	4.44	13	PASS
				RB12#13	4.39	13	PASS
				RB25#0	5.23	13	PASS
			HCH	RB1#0	4.78	13	PASS
				RB1#13	4.11	13	PASS
				RB1#24	3.86	13	PASS
				RB12#0	4.62	13	PASS
				RB12#6	4.37	13	PASS
				RB12#13	4.47	13	PASS
				RB25#0	5.51	13	PASS
		10	LCH	RB1#0	4.18	13	PASS
				RB1#25	4.08	13	PASS
				RB1#49	4.19	13	PASS
				RB25#0	4.63	13	PASS
				RB25#13	4.55	13	PASS
				RB25#25	4.64	13	PASS
				RB50#0	5.4	13	PASS
			MCH	RB1#0	4.34	13	PASS
				RB1#25	3.95	13	PASS
				RB1#49	4.16	13	PASS
				RB25#0	4.62	13	PASS
				RB25#13	4.39	13	PASS
				RB25#25	4.53	13	PASS
				RB50#0	5.58	13	PASS
HCH	RB1#0	4.71	13	PASS			
	RB1#25	3.88	13	PASS			
	RB1#49	4.37	13	PASS			
	RB25#0	4.66	13	PASS			
	RB25#13	4.65	13	PASS			
	RB25#25	4.63	13	PASS			
	RB50#0	5.35	13	PASS			
BAND 7	LTE/TM1	5	LCH	RB1#0	3.57	13	PASS
				RB1#13	3.33	13	PASS
				RB1#24	3.47	13	PASS
				RB12#0	3.99	13	PASS
				RB12#6	3.88	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict		
				RB12#13	3.99	13	PASS		
				RB25#0	4.64	13	PASS		
			MCH	RB1#0	3.7	13	PASS		
				RB1#13	3.26	13	PASS		
				RB1#24	3.39	13	PASS		
				RB12#0	3.94	13	PASS		
				RB12#6	3.79	13	PASS		
				RB12#13	3.95	13	PASS		
			HCH	RB25#0	4.81	13	PASS		
				RB1#0	3.68	13	PASS		
				RB1#13	3.44	13	PASS		
				RB1#24	3.41	13	PASS		
				RB12#0	3.95	13	PASS		
				RB12#6	3.94	13	PASS		
					LCH	RB12#13	3.95	13	PASS
						RB25#0	4.88	13	PASS
						RB1#0	3.67	13	PASS
						RB1#25	3.31	13	PASS
						RB1#49	3.86	13	PASS
						RB25#0	4	13	PASS
						RB25#13	3.75	13	PASS
				MCH	RB25#25	4.05	13	PASS	
					RB50#0	5.04	13	PASS	
					RB1#0	3.61	13	PASS	
					RB1#25	3.3	13	PASS	
					RB1#49	3.46	13	PASS	
					RB25#0	3.99	13	PASS	
					RB25#13	3.84	13	PASS	
		HCH	RB25#25	3.99	13	PASS			
			RB50#0	4.93	13	PASS			
			RB1#0	3.82	13	PASS			
			RB1#25	3.4	13	PASS			
			RB1#49	3.63	13	PASS			
RB25#0	4.04		13	PASS					
RB25#13	3.91		13	PASS					
15	LCH	RB25#25	4.03	13	PASS				
		RB50#0	4.65	13	PASS				
		RB1#0	3.74	13	PASS				
				RB1#38	3.34	13	PASS		
				RB1#74	3.54	13	PASS		



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
				RB36#0	4.14	13	PASS
				RB36#18	3.88	13	PASS
				RB36#39	4.03	13	PASS
				RB75#0	5.04	13	PASS
			MCH	RB1#0	3.77	13	PASS
				RB1#38	3.34	13	PASS
				RB1#74	3.66	13	PASS
				RB36#0	4.04	13	PASS
				RB36#18	3.79	13	PASS
				RB36#39	4.04	13	PASS
				RB75#0	5	13	PASS
			HCH	RB1#0	3.71	13	PASS
				RB1#38	3.34	13	PASS
				RB1#74	3.71	13	PASS
				RB36#0	4.08	13	PASS
				RB36#18	3.86	13	PASS
				RB36#39	4.05	13	PASS
				RB75#0	5.02	13	PASS
		20	LCH	RB1#0	3.44	13	PASS
				RB1#50	3.37	13	PASS
				RB1#99	3.43	13	PASS
				RB50#0	4.17	13	PASS
				RB50#25	3.91	13	PASS
				RB50#50	4.05	13	PASS
				RB100#0	5.05	13	PASS
			MCH	RB1#0	3.67	13	PASS
				RB1#50	3.38	13	PASS
				RB1#99	3.57	13	PASS
				RB50#0	4.02	13	PASS
				RB50#25	3.82	13	PASS
				RB50#50	4.04	13	PASS
				RB100#0	5.24	13	PASS
			HCH	RB1#0	3.49	13	PASS
RB1#50	3.47	13		PASS			
RB1#99	3.55	13		PASS			
RB50#0	4.1	13		PASS			
RB50#25	4.13	13		PASS			
RB50#50	4.12	13		PASS			
RB100#0	4.94	13		PASS			
LTE/TM2	5	LCH	RB1#0	4.16	13	PASS	



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict	
				RB1#13	3.96	13	PASS	
				RB1#24	3.79	13	PASS	
				RB12#0	4.21	13	PASS	
				RB12#6	4.29	13	PASS	
				RB12#13	4.2	13	PASS	
				RB25#0	5.06	13	PASS	
			MCH	RB1#0	4.61	13	PASS	
				RB1#13	3.62	13	PASS	
				RB1#24	4.23	13	PASS	
				RB12#0	4.15	13	PASS	
				RB12#6	4.17	13	PASS	
				RB12#13	4.11	13	PASS	
			HCH	RB25#0	5.01	13	PASS	
				RB1#0	4.68	13	PASS	
				RB1#13	3.62	13	PASS	
				RB1#24	4.26	13	PASS	
				RB12#0	4.12	13	PASS	
				RB12#6	4.09	13	PASS	
			10	LCH	RB12#13	4.08	13	PASS
					RB25#0	5.29	13	PASS
					RB1#0	4.66	13	PASS
		RB1#25			4.02	13	PASS	
		RB1#49			3.52	13	PASS	
		RB25#0			4.34	13	PASS	
		RB25#13			4.11	13	PASS	
		MCH		RB25#25	4.32	13	PASS	
				RB50#0	4.98	13	PASS	
				RB1#0	4.28	13	PASS	
				RB1#25	3.73	13	PASS	
				RB1#49	3.68	13	PASS	
				RB25#0	4.26	13	PASS	
				RB25#13	4.03	13	PASS	
		HCH		RB25#25	4.27	13	PASS	
				RB50#0	5.04	13	PASS	
				RB1#0	4.56	13	PASS	
				RB1#25	3.79	13	PASS	
RB1#49	3.91			13	PASS			
RB25#0	4.31			13	PASS			
					RB25#13	3.93	13	PASS
			RB25#25		4.23	13	PASS	



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
		15	LCH	RB50#0	5.28	13	PASS
				RB1#0	4.48	13	PASS
				RB1#38	3.57	13	PASS
				RB1#74	4.13	13	PASS
				RB36#0	4.32	13	PASS
				RB36#18	4.21	13	PASS
				RB36#39	4.2	13	PASS
			RB75#0	5.28	13	PASS	
			MCH	RB1#0	5.02	13	PASS
				RB1#38	3.71	13	PASS
				RB1#74	4.27	13	PASS
				RB36#0	4.23	13	PASS
				RB36#18	4.23	13	PASS
				RB36#39	4.26	13	PASS
				RB75#0	5.23	13	PASS
			HCH	RB1#0	4.64	13	PASS
				RB1#38	3.7	13	PASS
				RB1#74	4.18	13	PASS
		RB36#0		4.37	13	PASS	
		RB36#18		4.31	13	PASS	
		RB36#39		4.27	13	PASS	
		RB75#0		5.26	13	PASS	
		20	LCH	RB1#0	4.2	13	PASS
				RB1#50	3.88	13	PASS
				RB1#99	3.98	13	PASS
				RB50#0	4.45	13	PASS
				RB50#25	4.05	13	PASS
				RB50#50	4.33	13	PASS
				RB100#0	5.46	13	PASS
			MCH	RB1#0	4.49	13	PASS
				RB1#50	3.7	13	PASS
				RB1#99	4.08	13	PASS
				RB50#0	4.39	13	PASS
				RB50#25	4.05	13	PASS
				RB50#50	4.41	13	PASS
				RB100#0	5.42	13	PASS
HCH	RB1#0		4.24	13	PASS		
	RB1#50		3.98	13	PASS		
	RB1#99		4.1	13	PASS		
	RB50#0		4.42	13	PASS		



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured [dB]	Limit [dB]	Verdict
				RB50#25	4.1	13	PASS
				RB50#50	4.43	13	PASS
				RB100#0	5.18	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

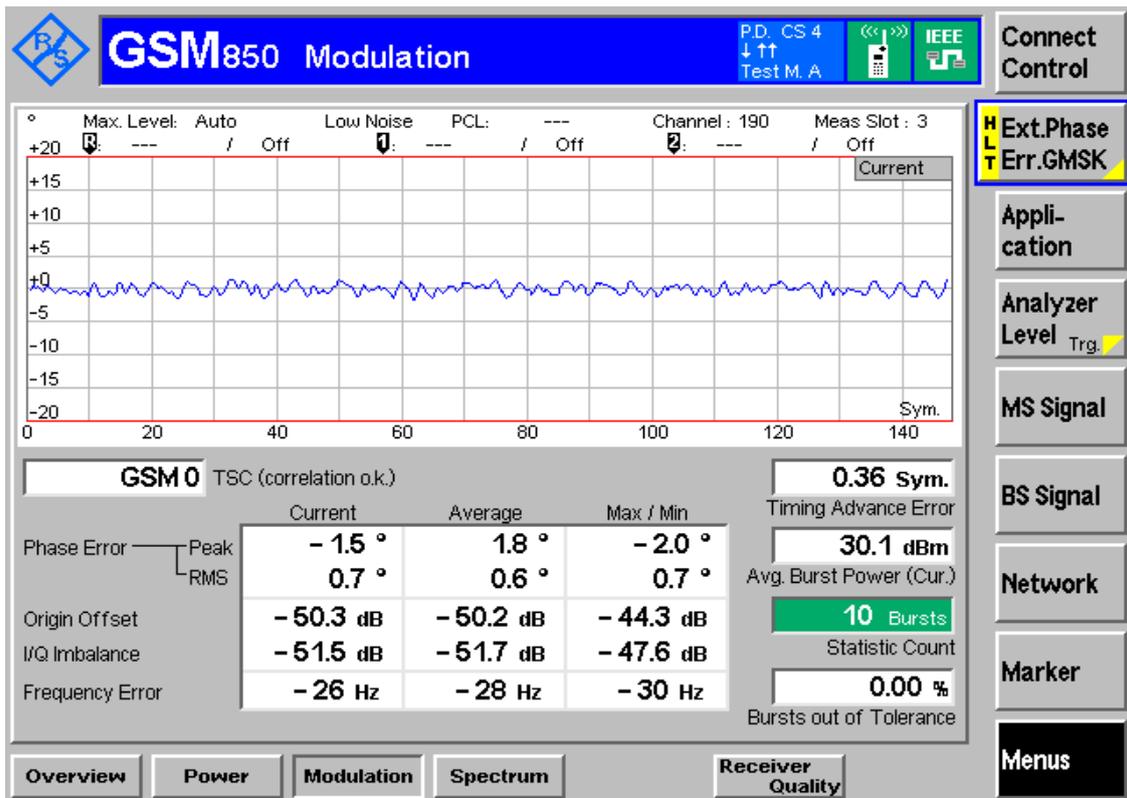
3.1 For GSM

3.1.1 Test Band = GSM850

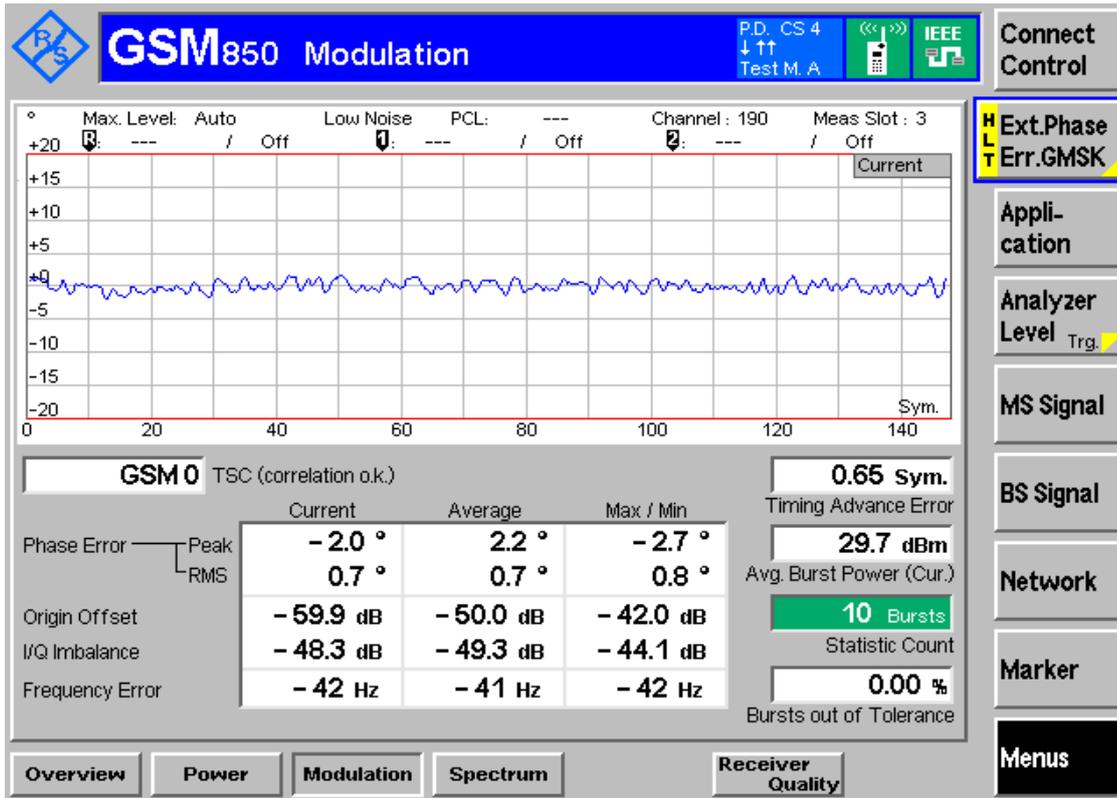
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH

Adapter Mode



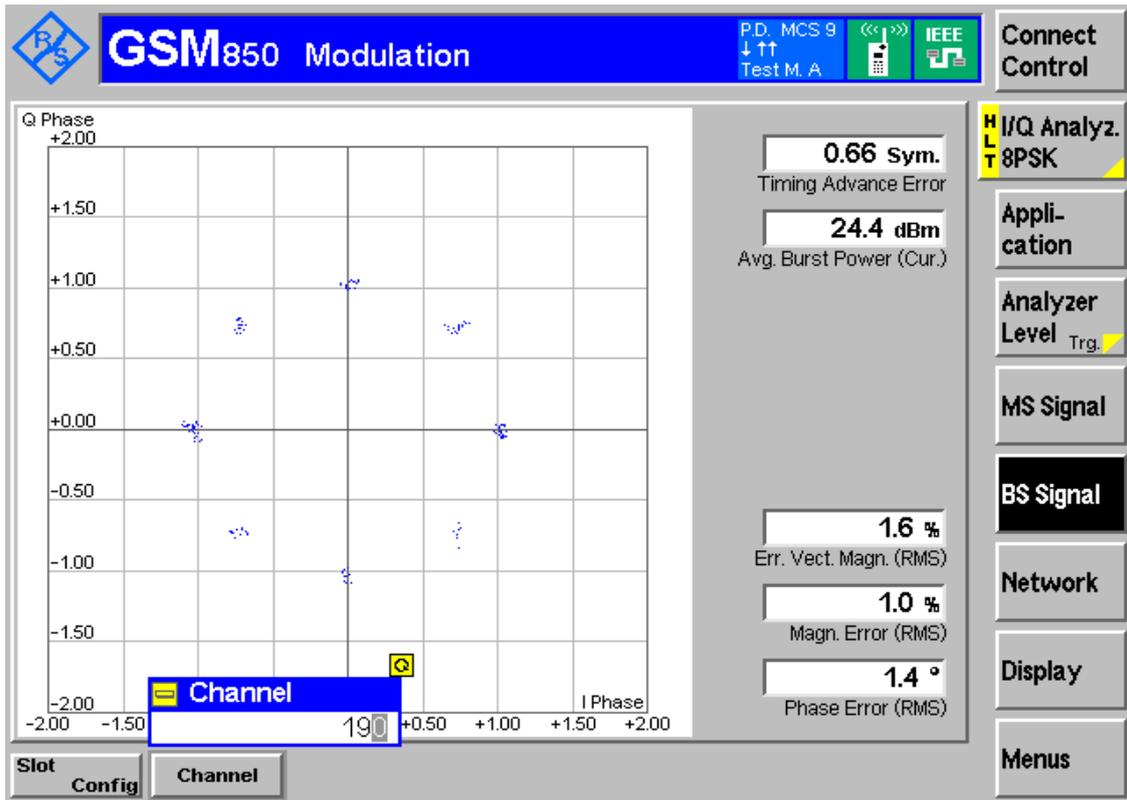
Battery Mode



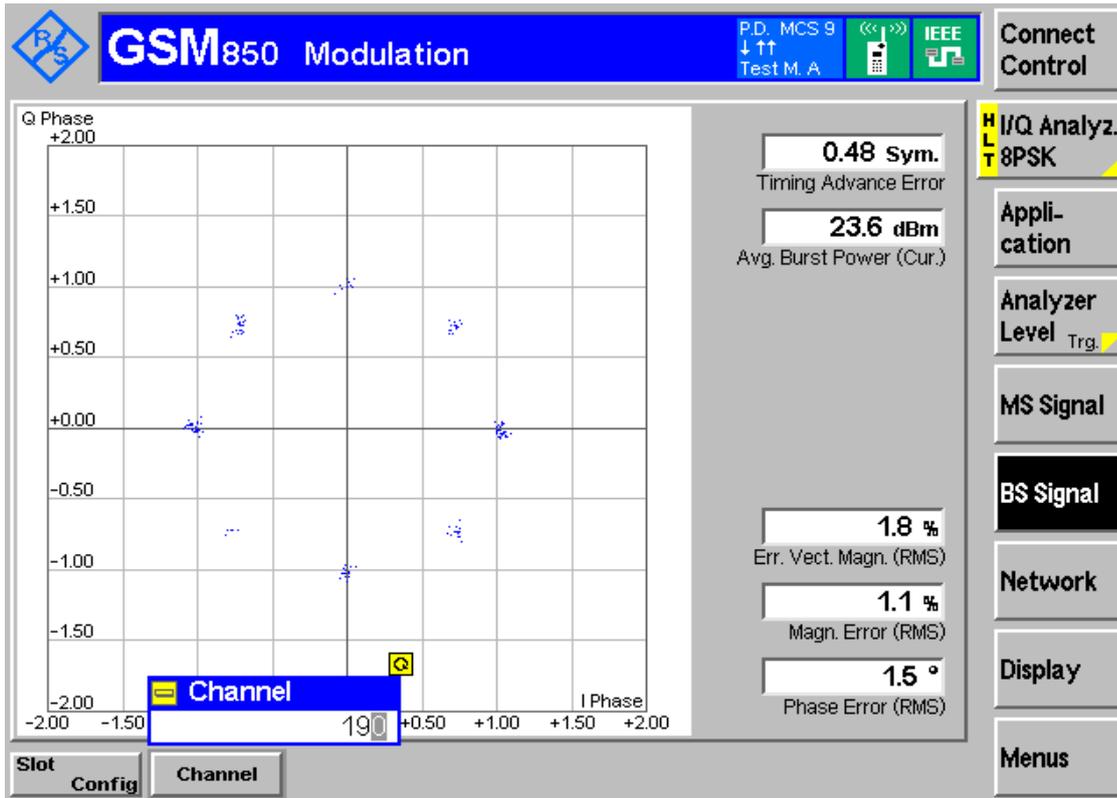
3.1.1.2 Test Mode = GSM/TM2

3.1.1.2.1 Test Channel = MCH

Adapter Mode



Battery Mode

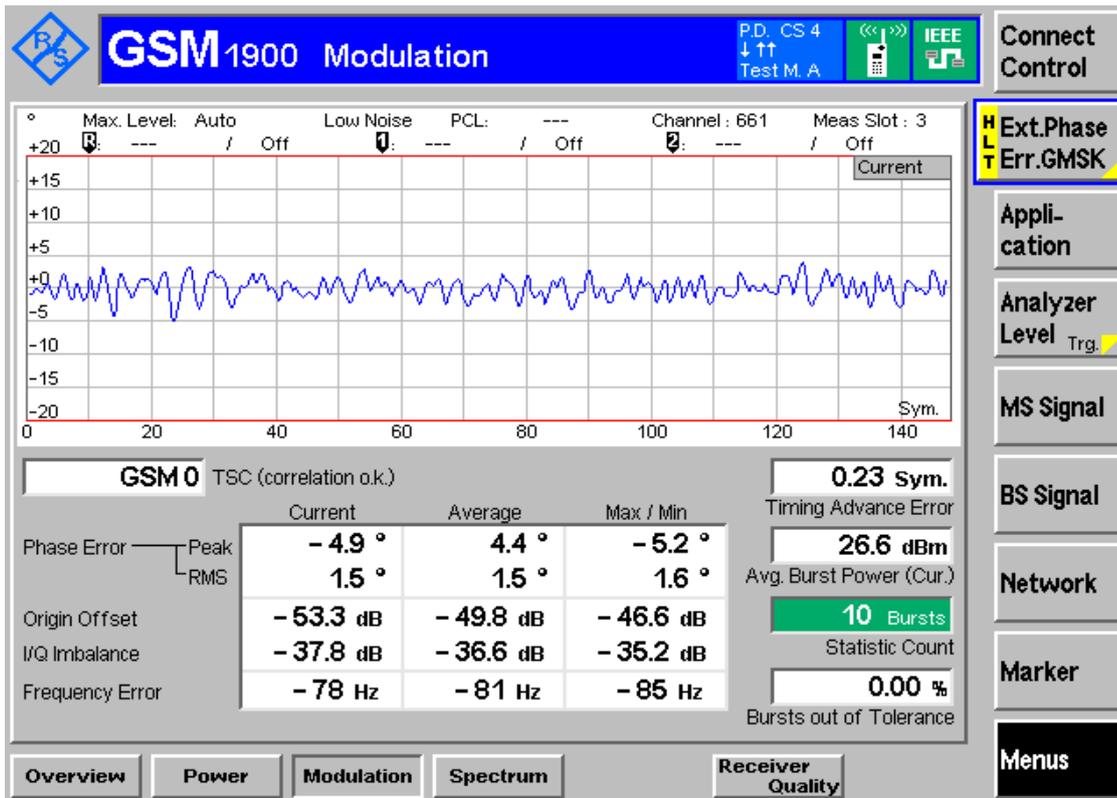


3.1.2 Test Band = GSM1900

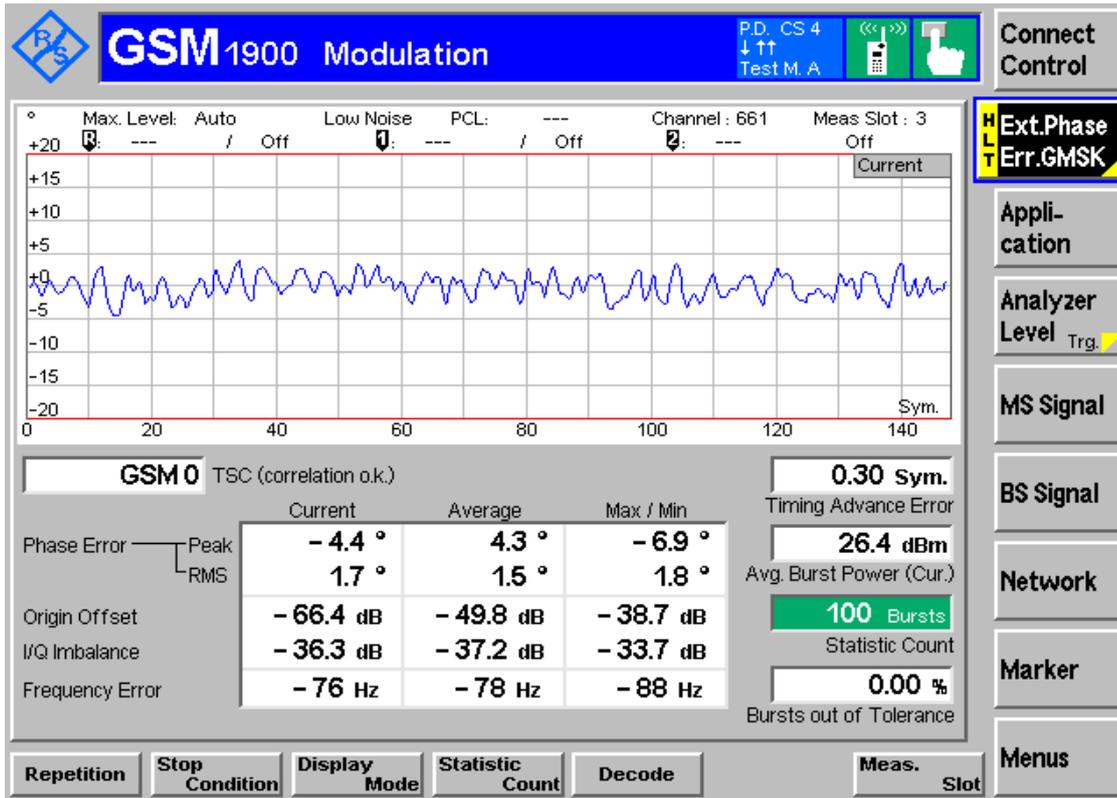
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH

Adapter Mode



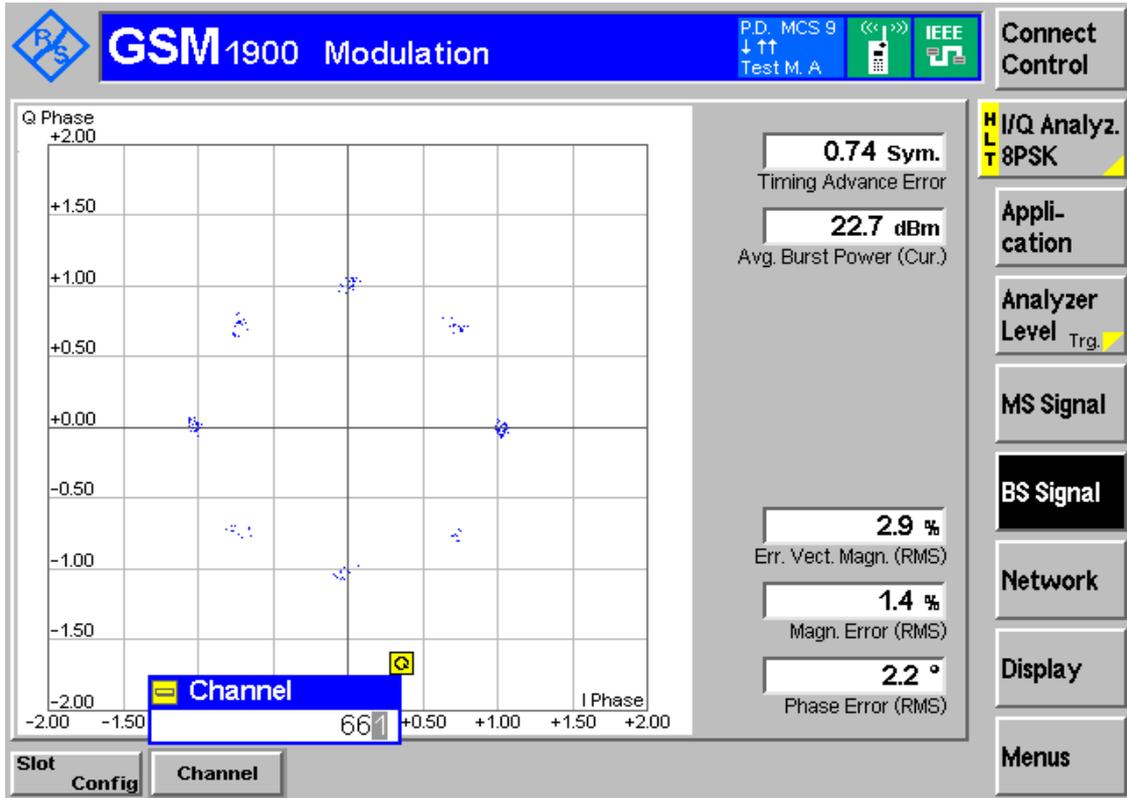
Battery Mode



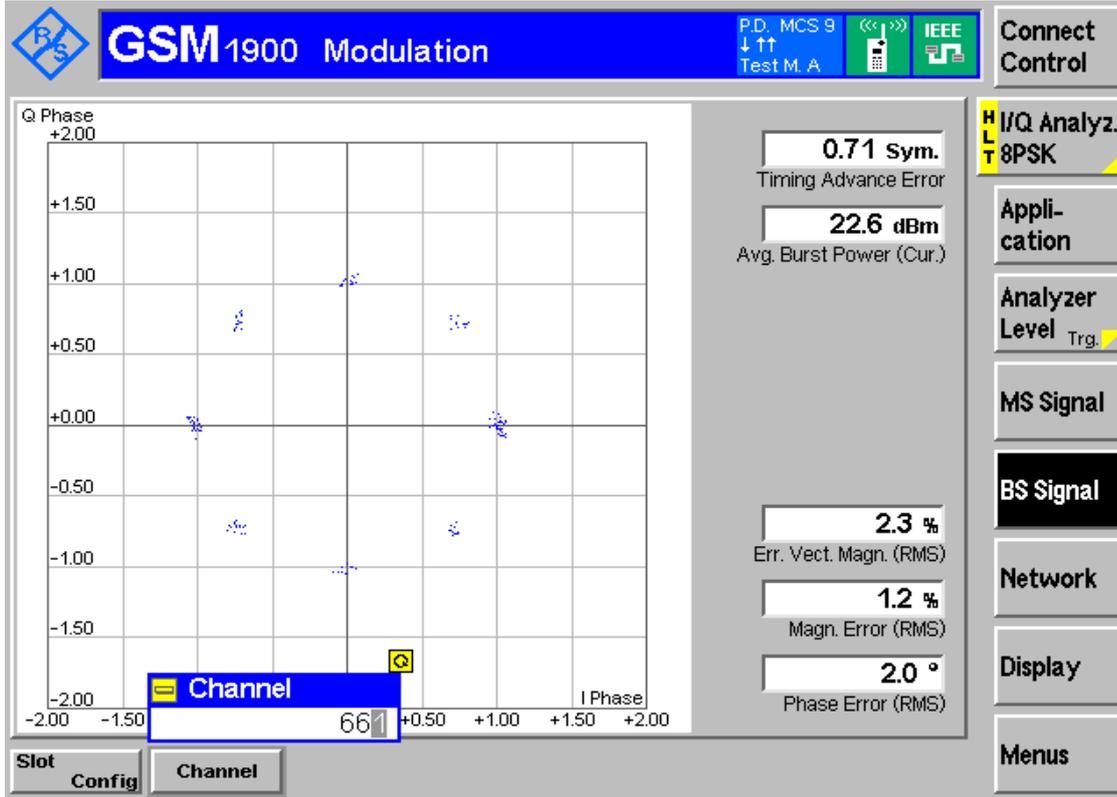
3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

Adapter Mode



Battery Mode

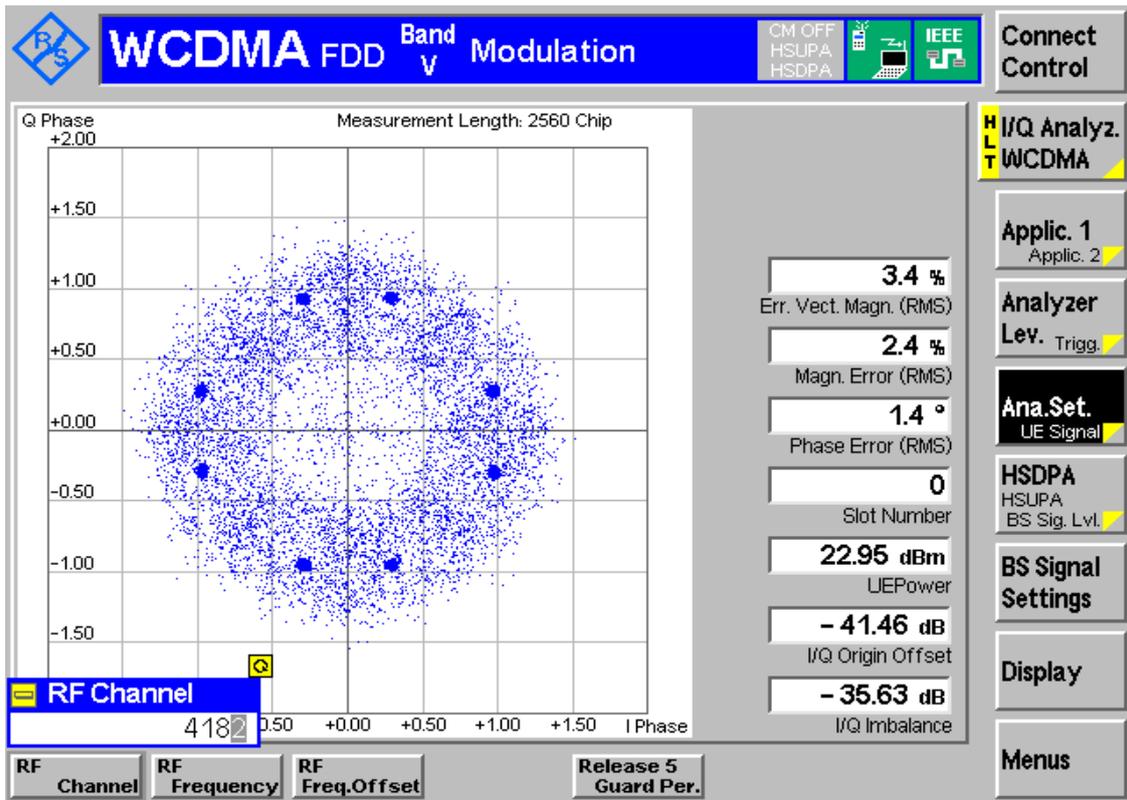


3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

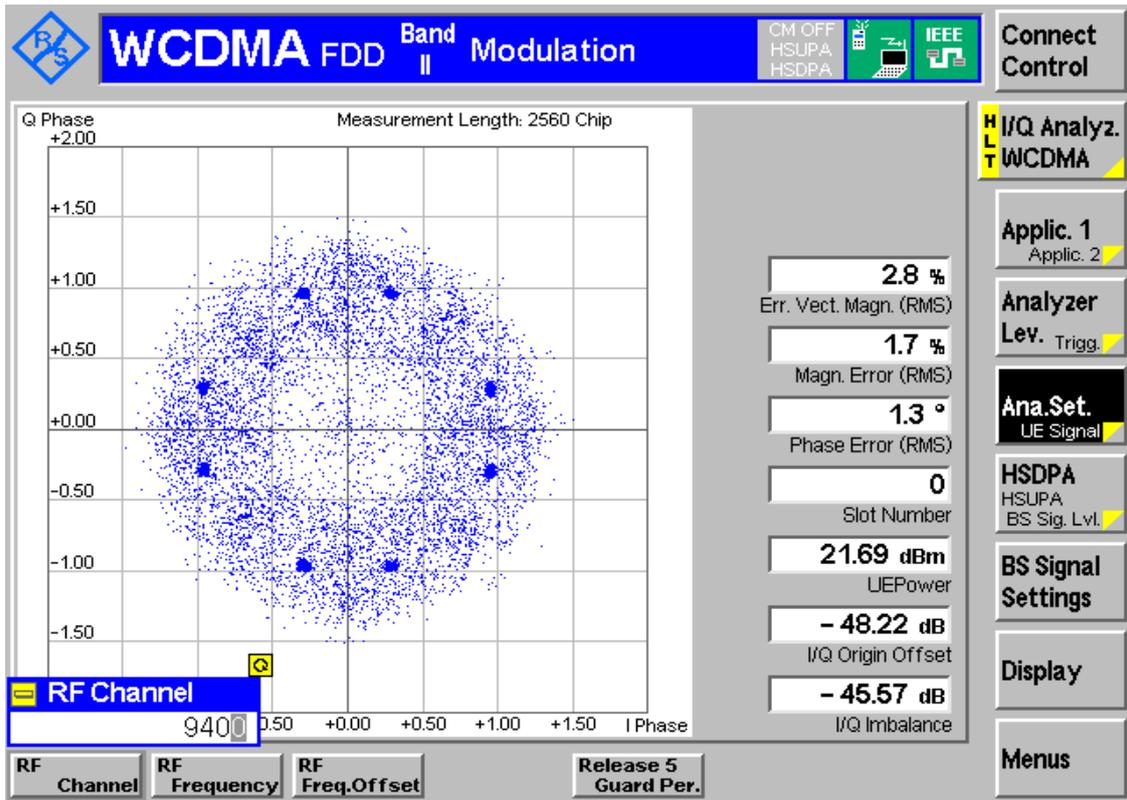
3.2.1.1.1 Test Channel = MCH



3.2.2 Test Band = WCDMA1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH



3.3 For LTE

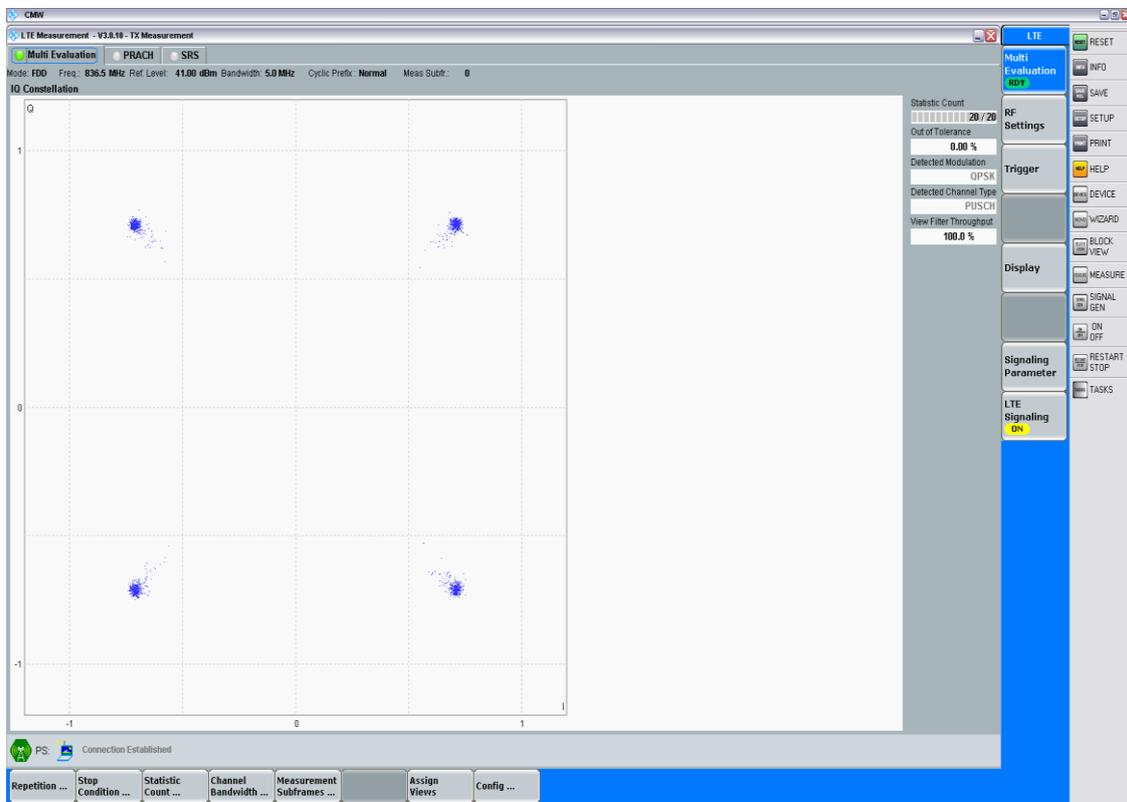
3.3.1 Test Band = BAND5

3.3.1.1 Test Mode = LTE/TM1

3.3.1.1.1 Test Bandwidth = 5

3.3.1.1.1.1 Test Channel = MCH

3.3.1.1.1.1.1 Test RB = RB25#0

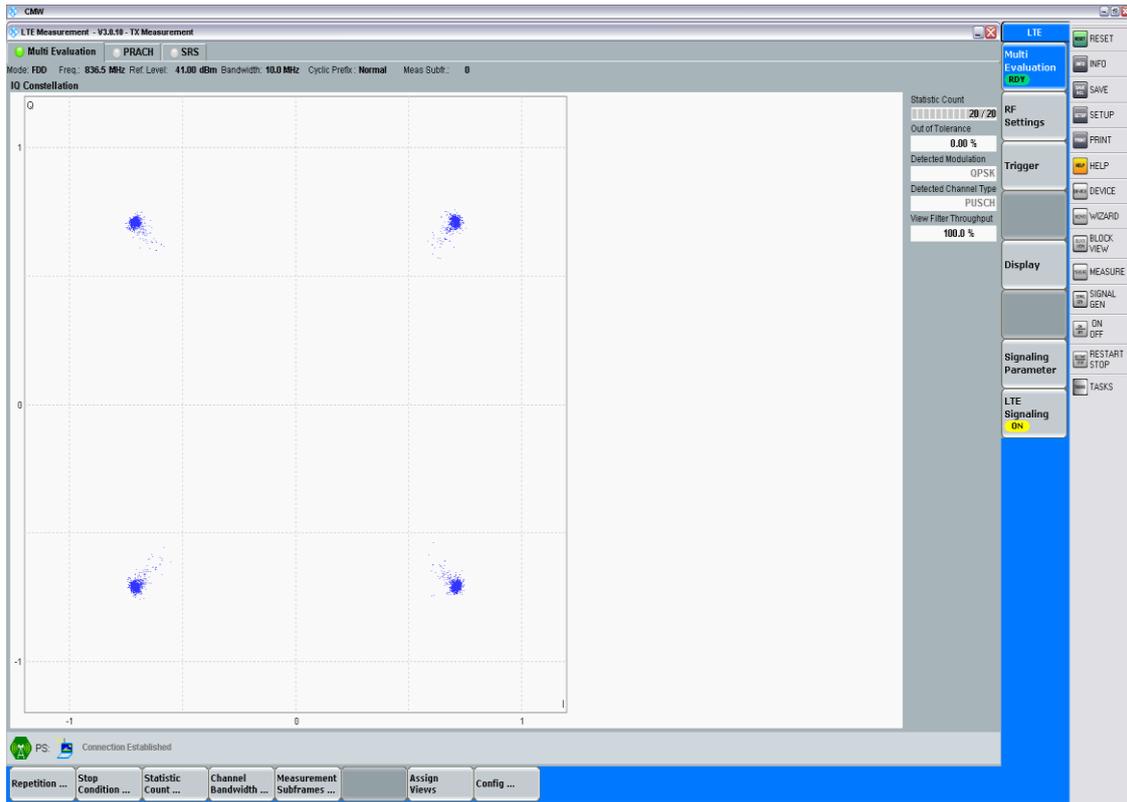




3.3.1.1.2 Test Bandwidth = 10

3.3.1.1.2.1 Test Channel = MCH

3.3.1.1.2.1.1 Test RB = RB50#0

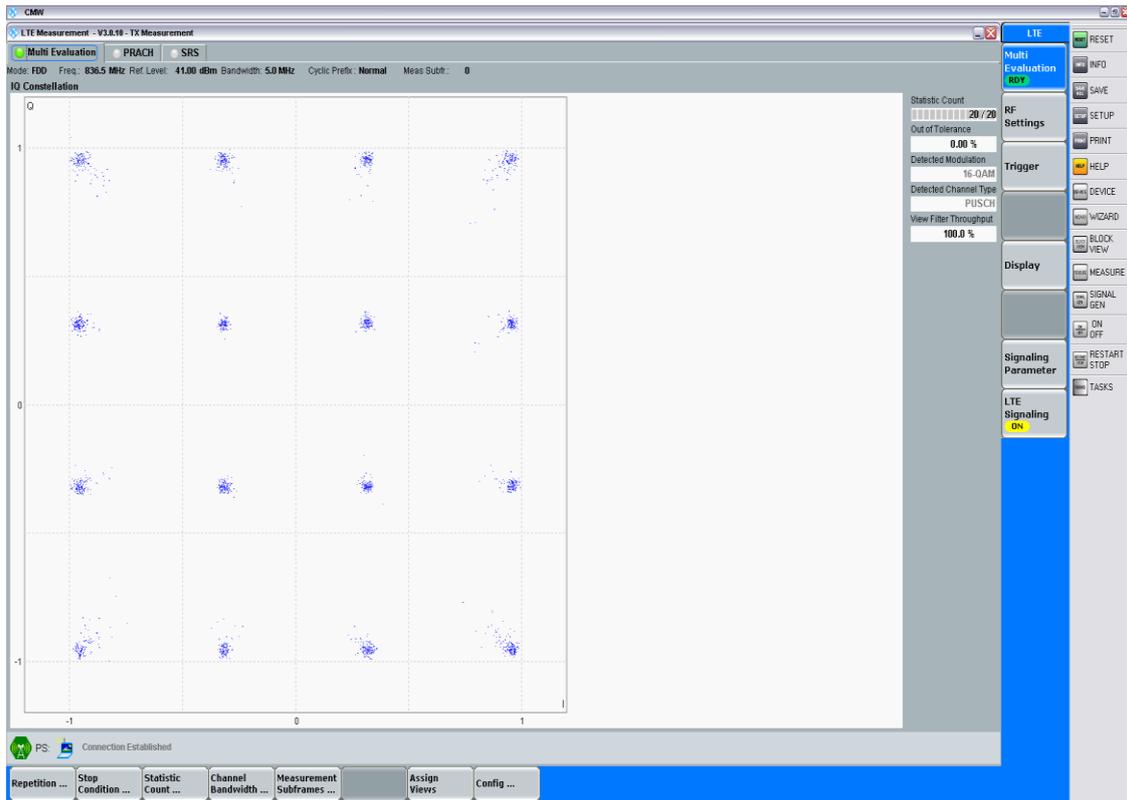


3.3.1.2 Test Mode = LTE/TM2

3.3.1.2.1 Test Bandwidth = 5

3.3.1.2.1.1 Test Channel = MCH

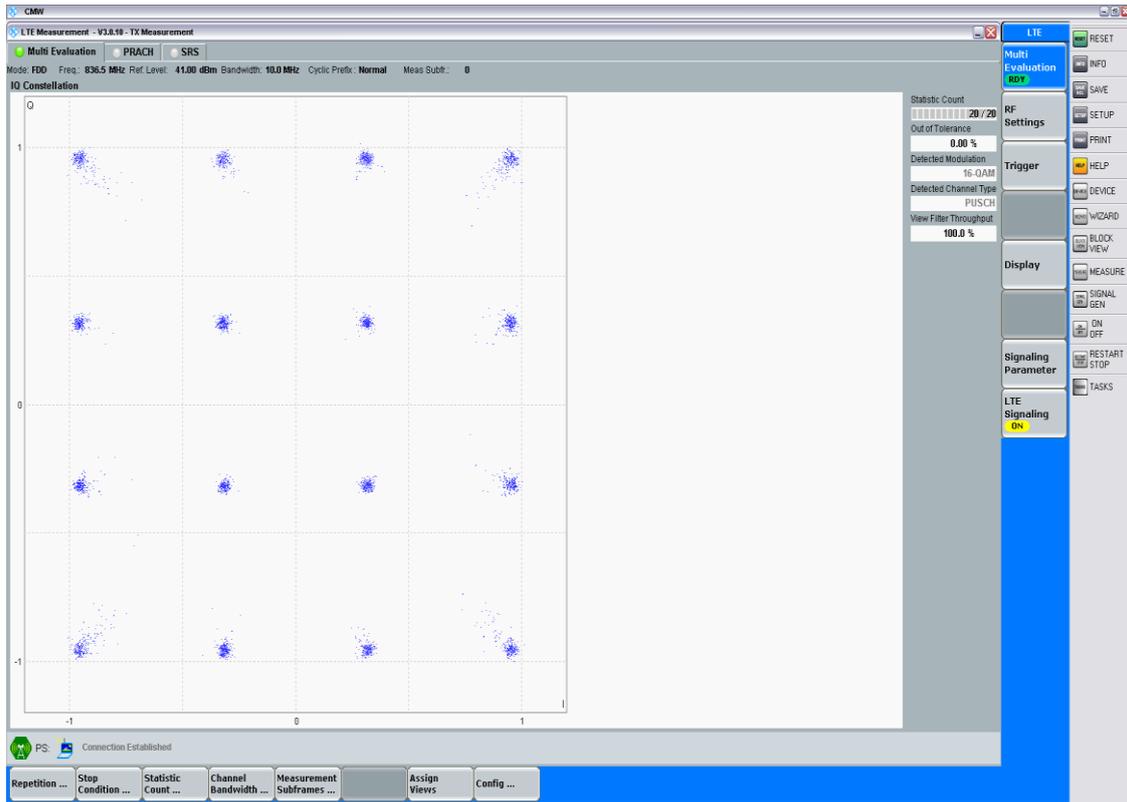
3.3.1.2.1.1.1 Test RB = RB25#0



3.3.1.2.2 Test Bandwidth = 10

3.3.1.2.2.1 Test Channel = MCH

3.3.1.2.2.1.1 Test RB = RB50#0



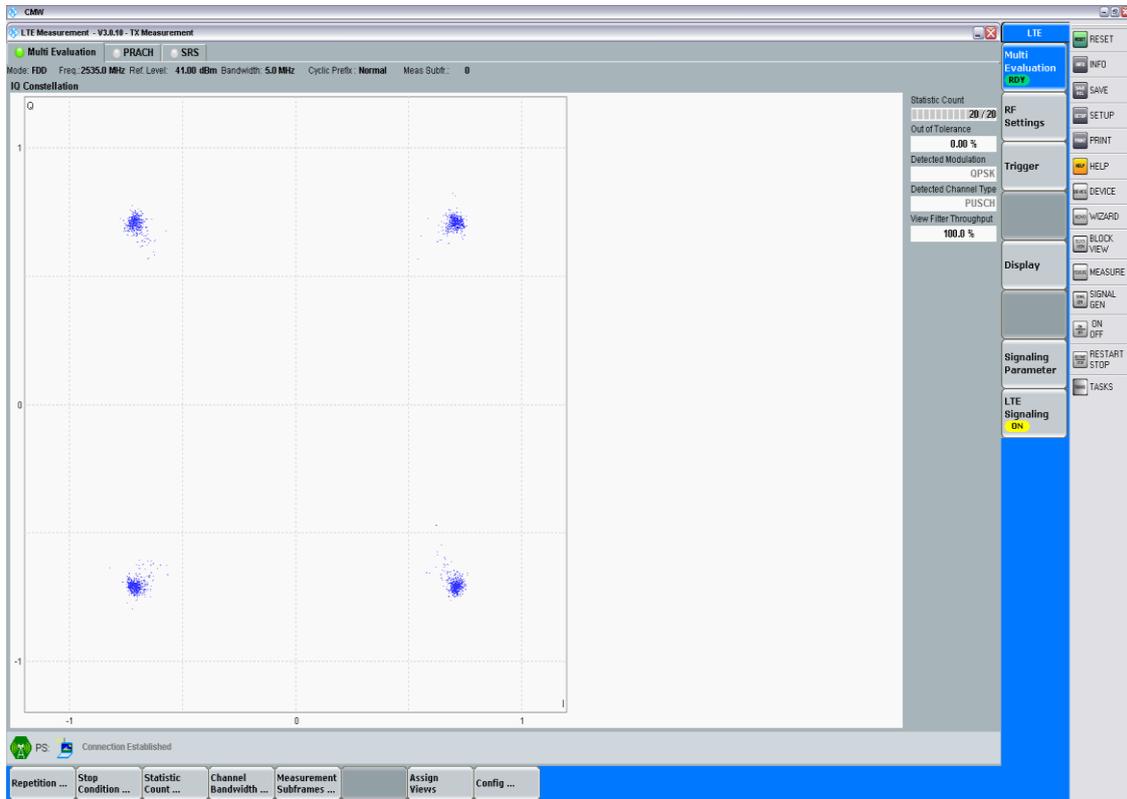
3.3.2 Test Band = BAND7

3.3.2.1 Test Mode = LTE/TM1

3.3.2.1.1 Test Bandwidth = 5

3.3.2.1.1.1 Test Channel = MCH

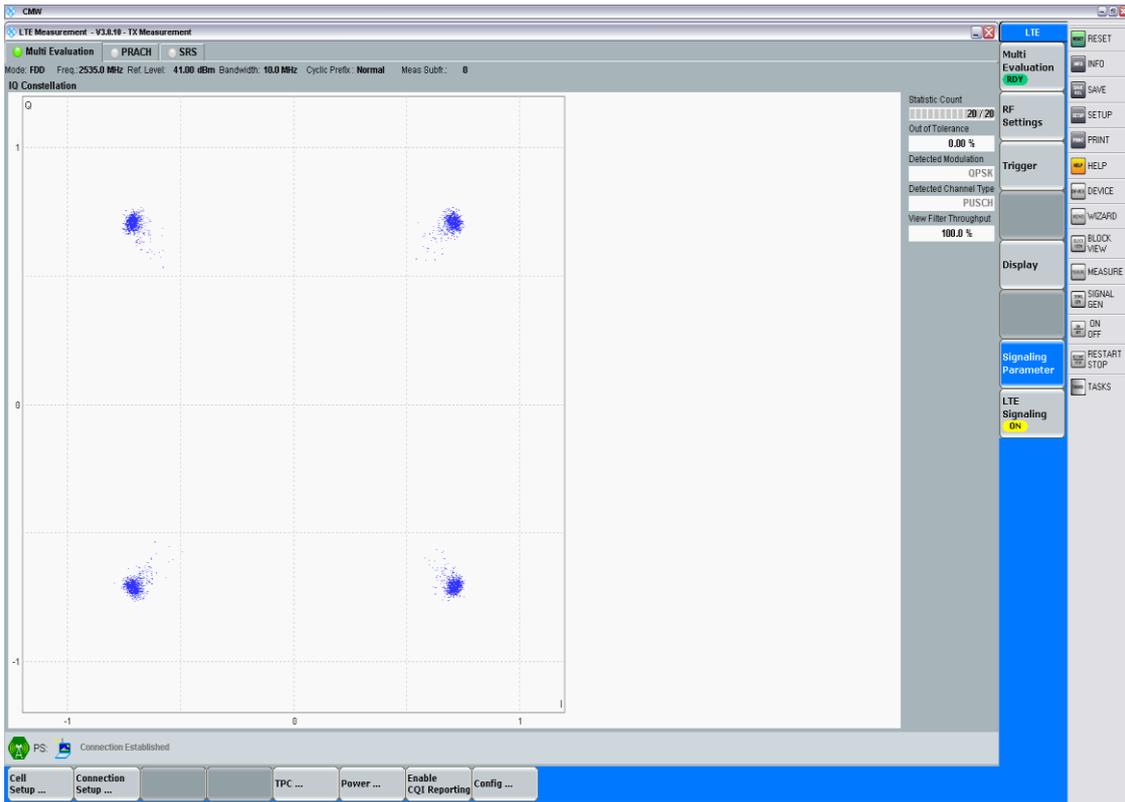
3.3.2.1.1.1.1 Test RB = RB25#0



3.3.2.1.2 Test Bandwidth = 10

3.3.2.1.2.1 Test Channel = MCH

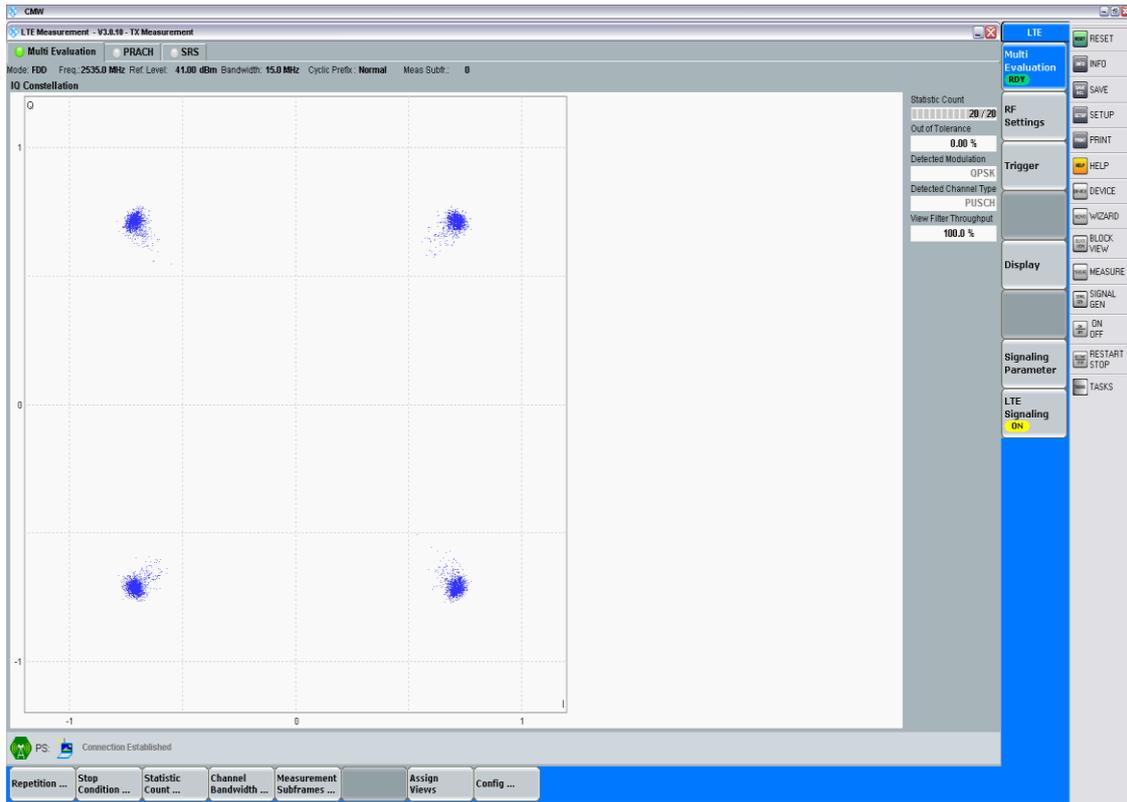
3.3.2.1.2.1.1 Test RB = RB50#0



3.3.2.1.3 Test Bandwidth = 15

3.3.2.1.3.1 Test Channel = MCH

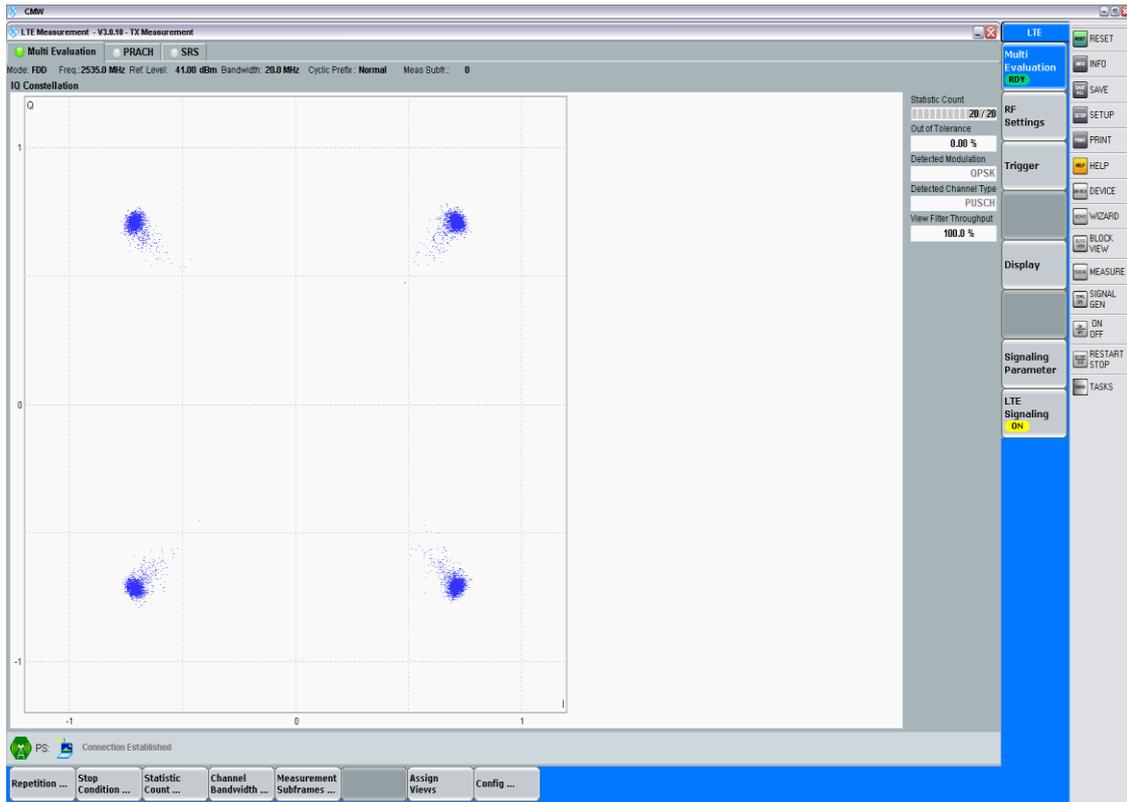
3.3.2.1.3.1.1 Test RB = RB75#0



3.3.2.1.4 Test Bandwidth = 20

3.3.2.1.4.1 Test Channel = MCH

3.3.2.1.4.1.1 Test RB = RB100#0

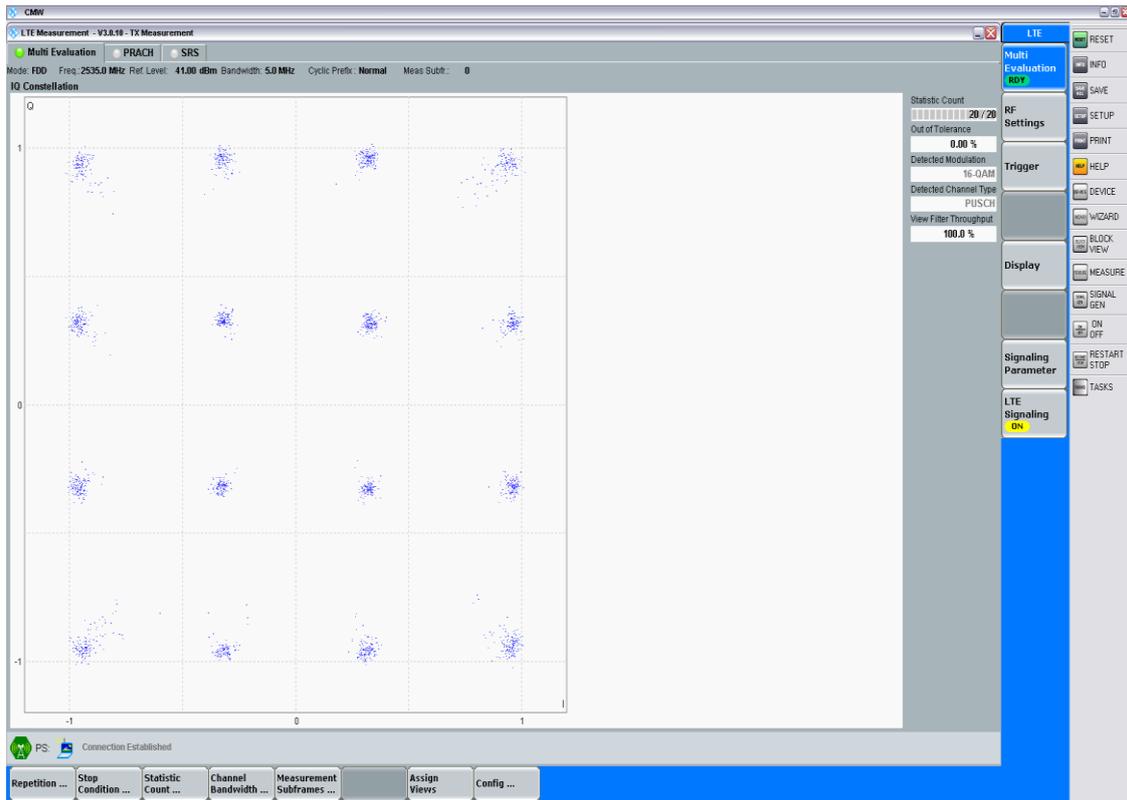


3.3.2.2 Test Mode = LTE/TM2

3.3.2.2.1 Test Bandwidth = 5

3.3.2.2.1.1 Test Channel = MCH

3.3.2.2.1.1.1 Test RB = RB25#0

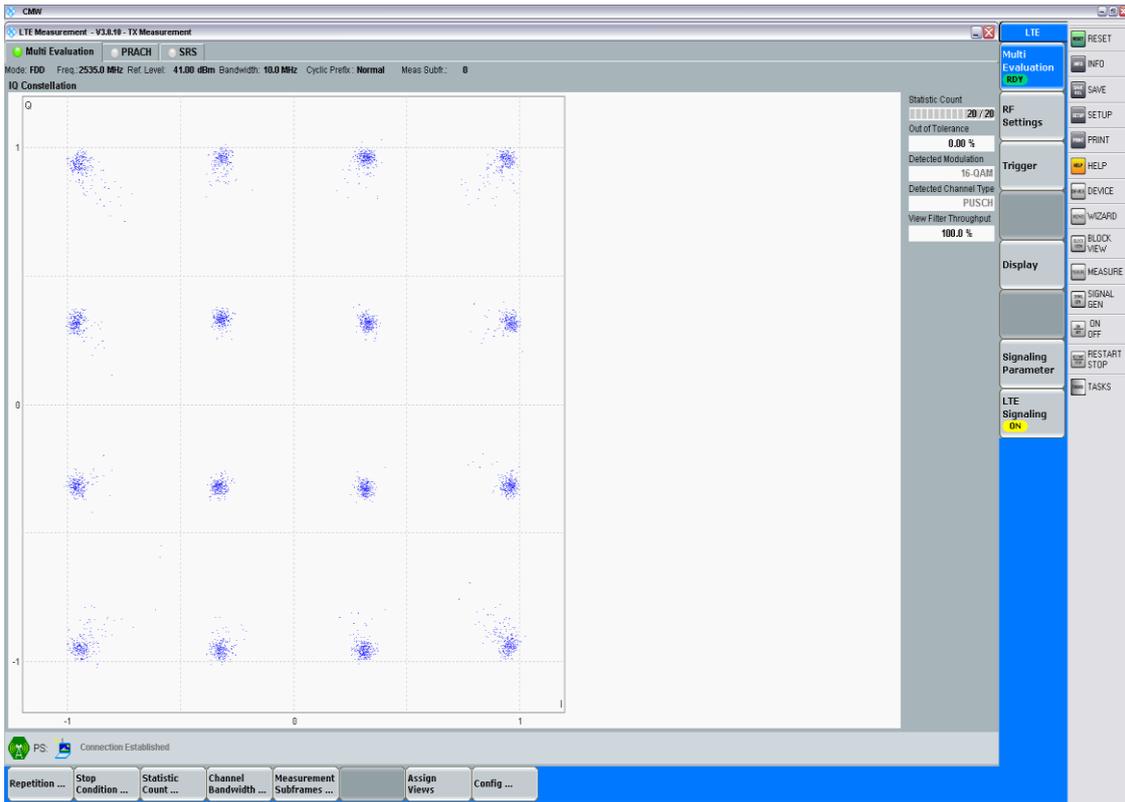




3.3.2.2.2 Test Bandwidth = 10

3.3.2.2.2.1 Test Channel = MCH

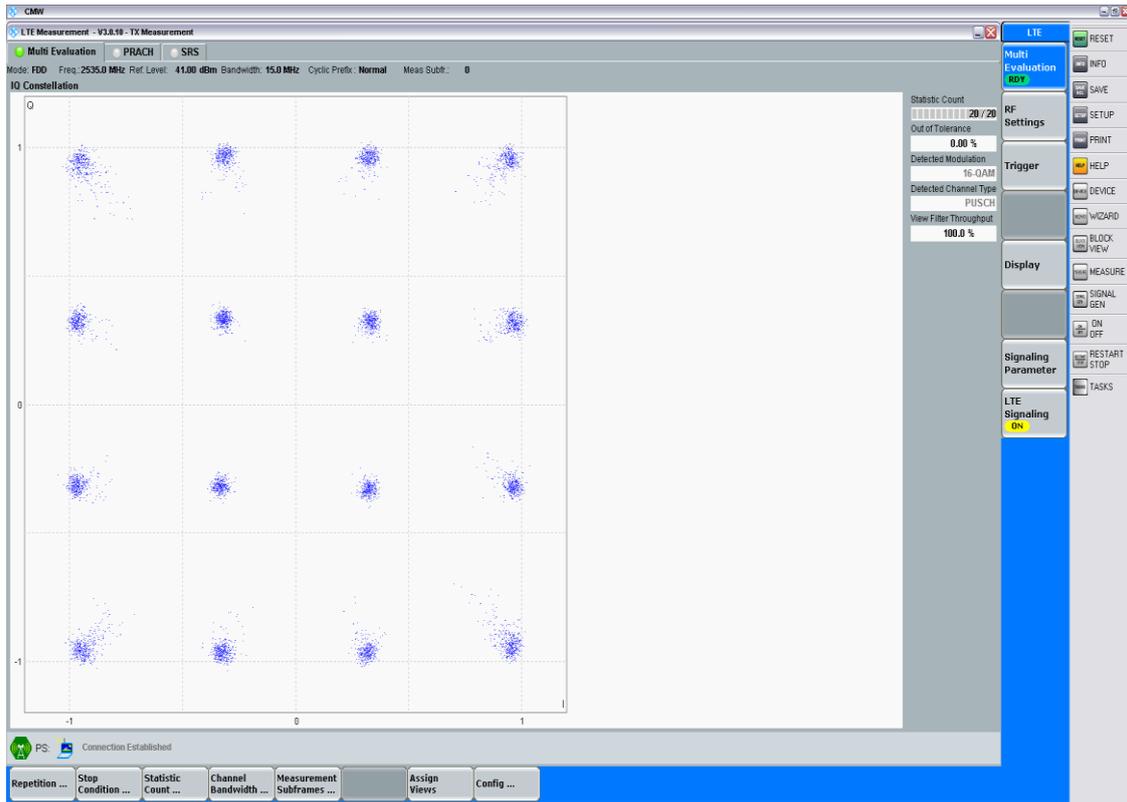
3.3.2.2.2.1.1 Test RB = RB50#0



3.3.2.2.3 Test Bandwidth = 15

3.3.2.2.3.1 Test Channel = MCH

3.3.2.2.3.1.1 Test RB = RB75#0

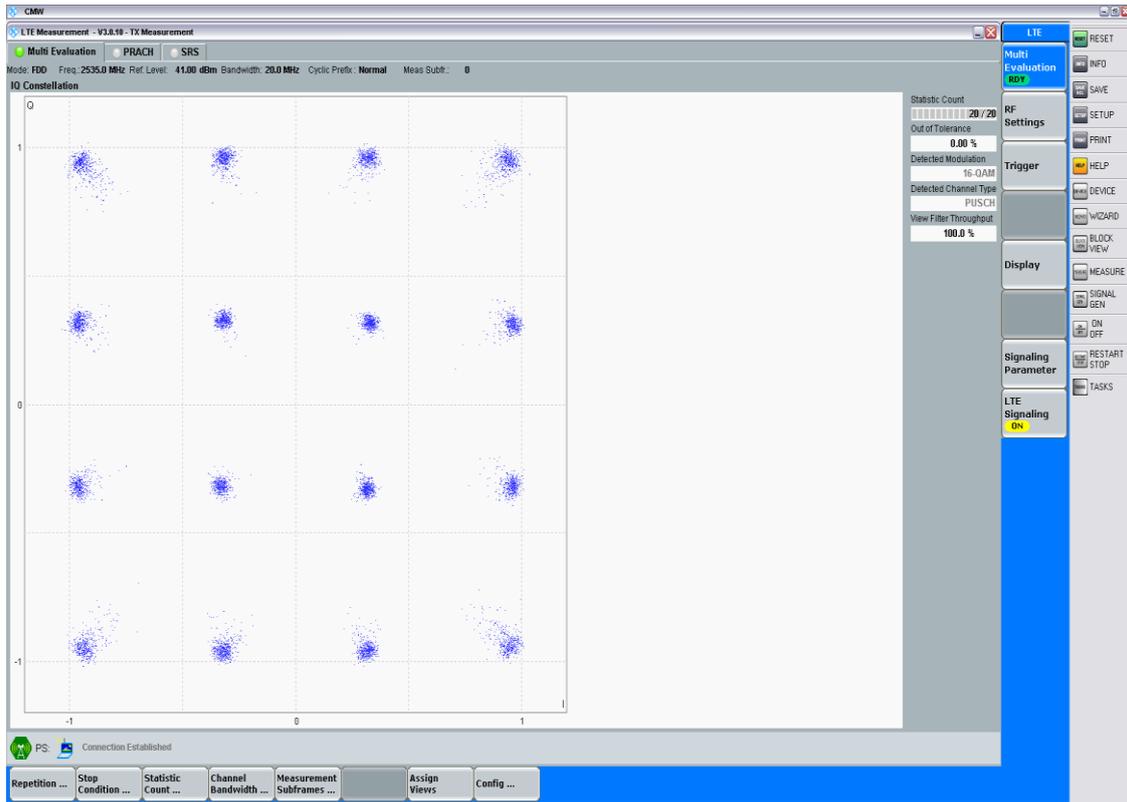




3.3.2.2.4 Test Bandwidth = 20

3.3.2.2.4.1 Test Channel = MCH

3.3.2.2.4.1.1 Test RB = RB100#0





4Appendix_D: Bandwidth

Part I - Test Results

Adapter Mode

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	248.33	321.24	Pass
		MCH	243.92	321.45	Pass
		HCH	246.64	318.28	Pass
	GSM/TM2	LCH	253.29	321.78	Pass
		MCH	249.98	310.02	Pass
		HCH	249.81	317.10	Pass
GSM1900	GSM/TM1	LCH	242.33	318.71	Pass
		MCH	245.46	316.62	Pass
		HCH	245.18	319.84	Pass
	GSM/TM2	LCH	245.82	323.15	Pass
		MCH	241.99	310.42	Pass
		HCH	244.95	314.78	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.16	4.74	Pass
		MCH	4.16	4.73	Pass
		HCH	4.15	4.74	Pass
WCDMA1900	UMTS/TM1	LCH	4.16	4.72	Pass
		MCH	4.15	4.73	Pass
		HCH	4.15	4.75	Pass

Battery Mode

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	247.45	317.30	Pass
		MCH	247.61	319.35	Pass
		HCH	245.27	316.43	Pass
	GSM/TM2	LCH	248.08	316.22	Pass
		MCH	247.97	298.01	Pass



Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
		HCH	243.73	288.91	Pass
GSM1900	GSM/TM1	LCH	245.43	314.69	Pass
		MCH	246.70	327.42	Pass
		HCH	245.39	319.53	Pass
	GSM/TM2	LCH	247.46	312.62	Pass
		MCH	246.19	313.46	Pass
		HCH	249.26	310.51	Pass



Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND5	LTE/TM1	5	LCH	RB25#0	4.49	4.85	Pass
			MCH	RB25#0	4.50	4.85	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	8.97	9.58	Pass
			MCH	RB50#0	8.96	9.57	Pass
			HCH	RB50#0	8.97	9.60	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.86	Pass
			MCH	RB25#0	4.50	4.88	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.98	9.57	Pass
			MCH	RB50#0	8.96	9.59	Pass
			HCH	RB50#0	8.96	9.62	Pass
BAND7	LTE/TM1	5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.50	4.89	Pass
			HCH	RB25#0	4.50	4.91	Pass
		10	LCH	RB50#0	8.98	9.62	Pass
			MCH	RB50#0	8.98	9.63	Pass
			HCH	RB50#0	8.98	9.62	Pass
		15	LCH	RB75#0	13.48	14.58	Pass
			MCH	RB75#0	13.48	14.59	Pass
			HCH	RB75#0	13.48	14.61	Pass
		20	LCH	RB100#0	17.96	19.25	Pass
			MCH	RB100#0	17.96	19.17	Pass
			HCH	RB100#0	17.96	19.21	Pass
	LTE/TM2	5	LCH	RB25#0	4.49	4.88	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.50	4.89	Pass
		10	LCH	RB50#0	8.98	9.60	Pass
			MCH	RB50#0	8.97	9.62	Pass
			HCH	RB50#0	8.98	9.65	Pass
		15	LCH	RB75#0	13.48	14.61	Pass
			MCH	RB75#0	13.49	14.60	Pass
			HCH	RB75#0	13.49	14.60	Pass
		20	LCH	RB100#0	17.98	19.23	Pass
			MCH	RB100#0	17.96	19.22	Pass
			HCH	RB100#0	17.97	19.21	Pass



Part II - Test Plots

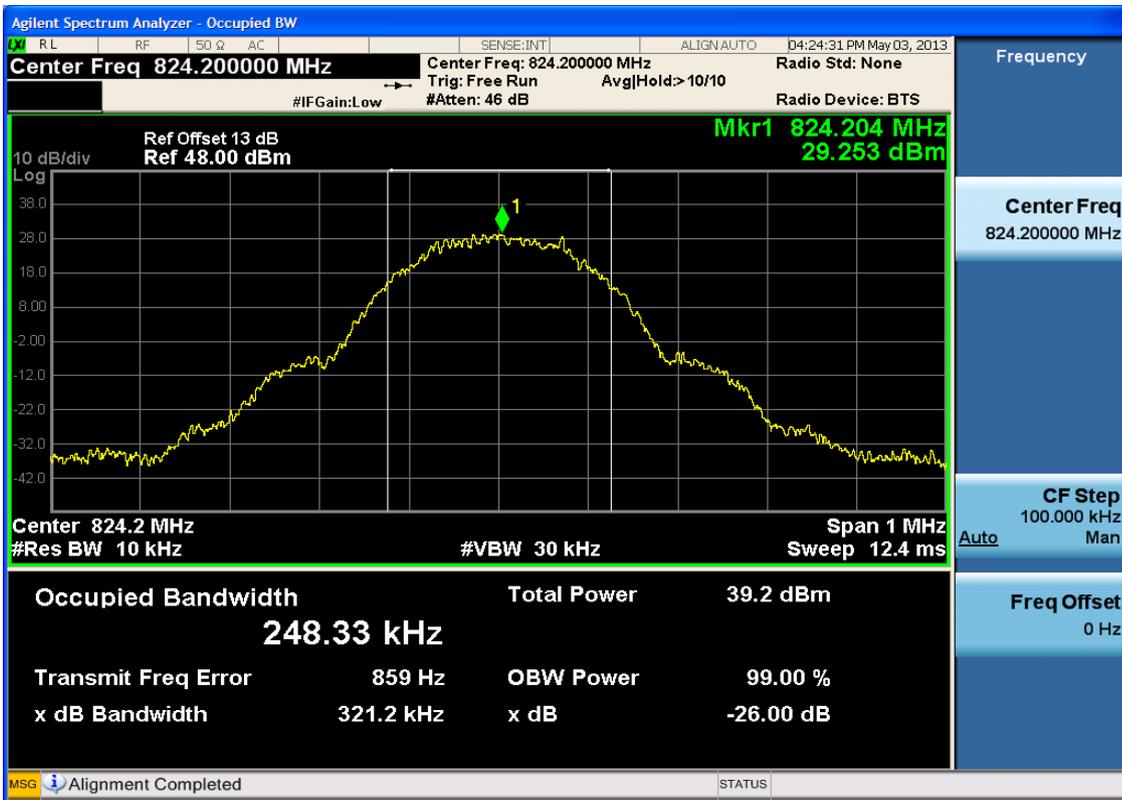
4.1 For GSM

4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH

Adapter Mode



Battery

Mode



4.1.1.1.2 Test Channel = MCH

Adapter Mode



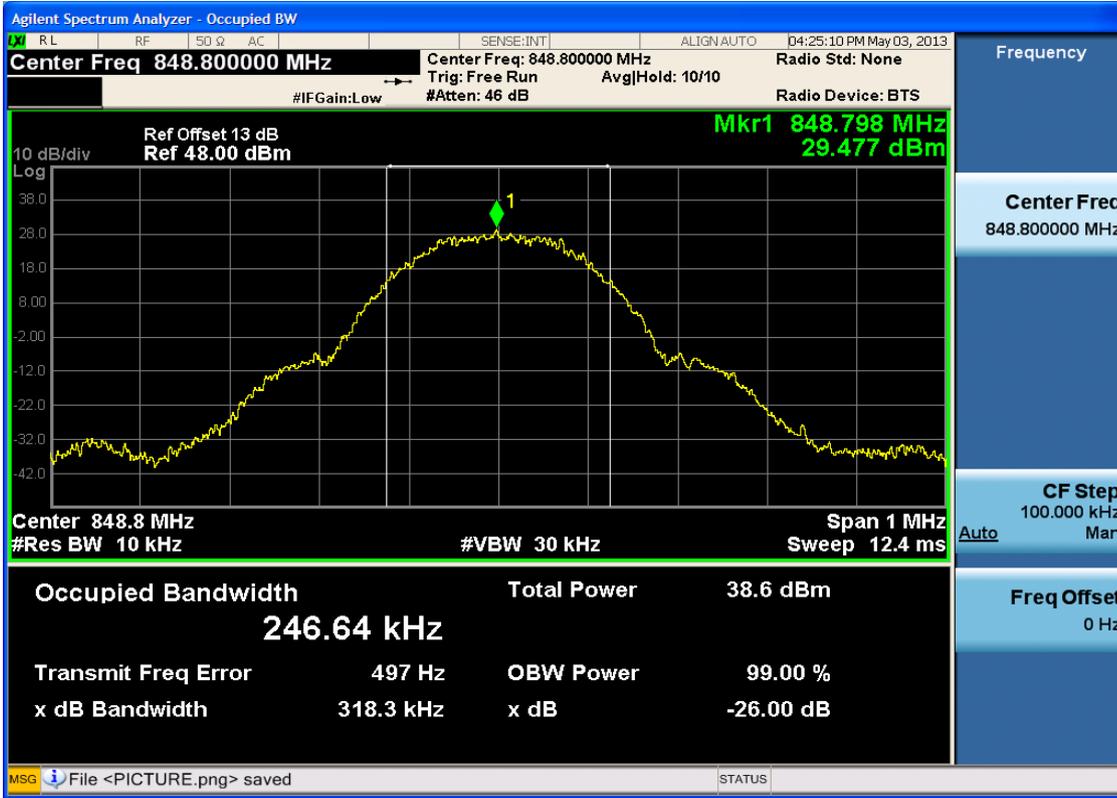
Battery Mode



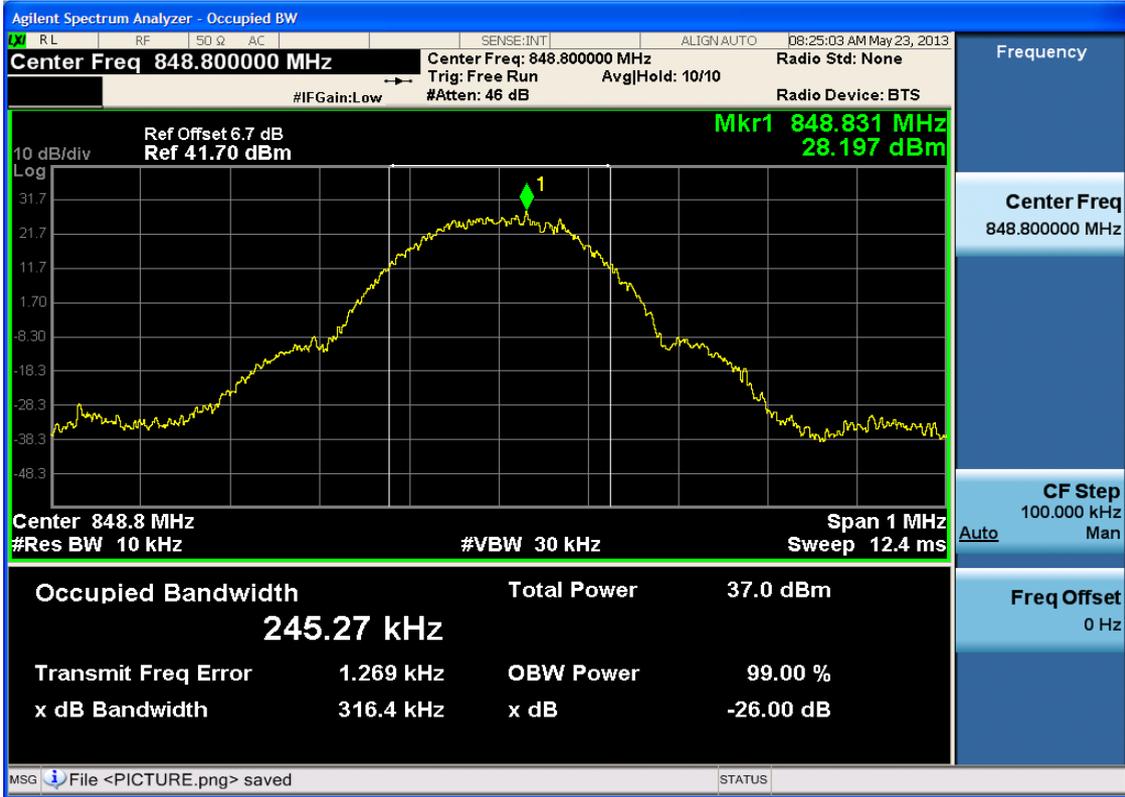


4.1.1.1.3 Test Channel = HCH

Adapter Mode



Mode





4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH

Adapter Mode



Battery

Mode





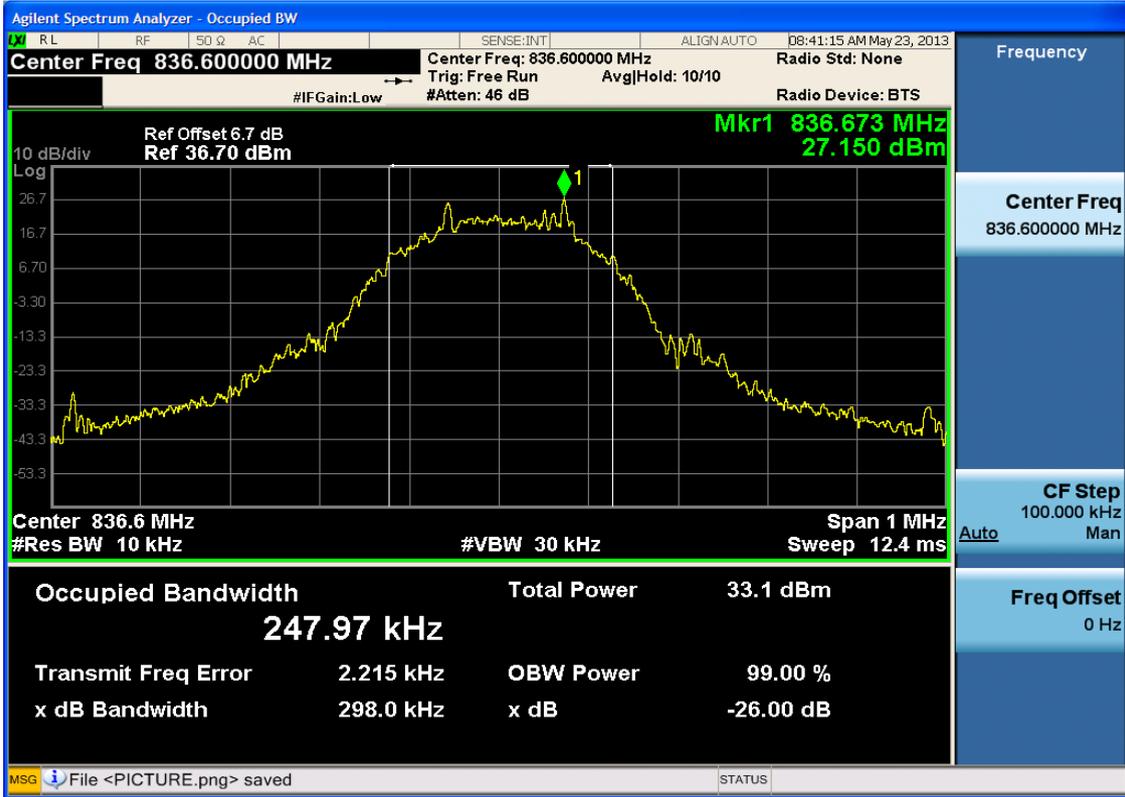
4.1.1.2.2 Test Channel = MCH

Adapter Mode



Battery

Mode





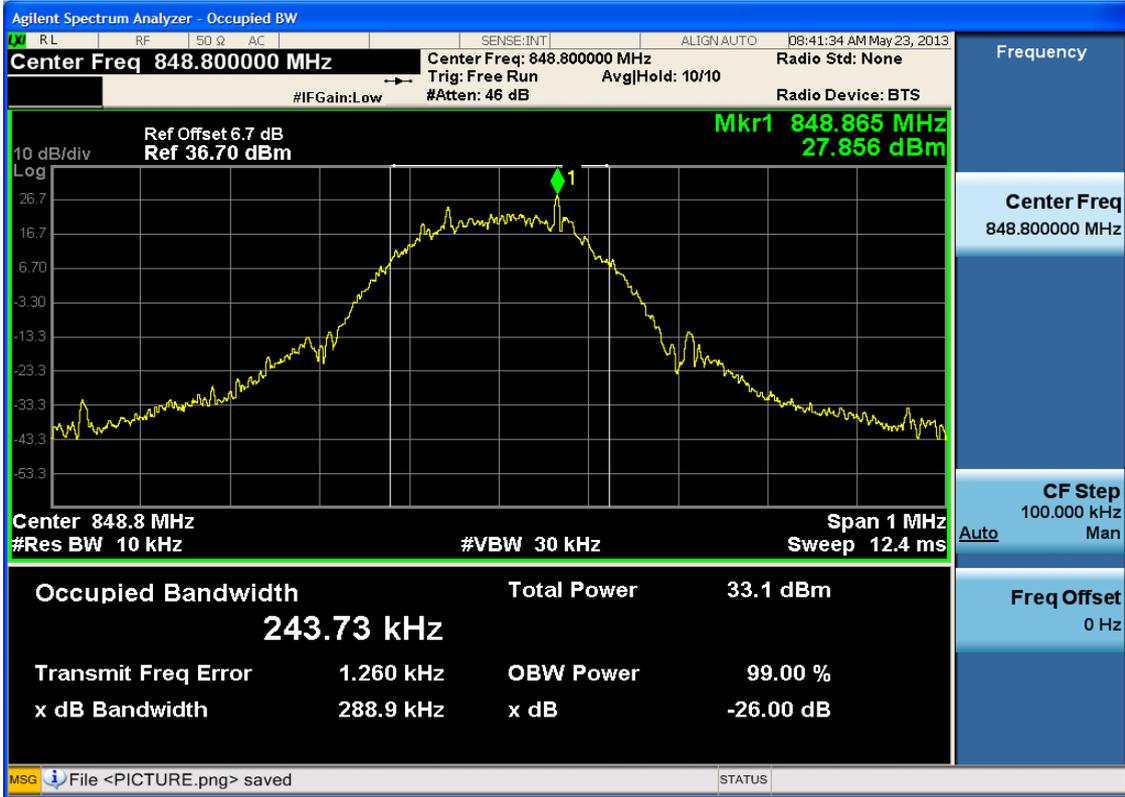
4.1.1.2.3 Test Channel = HCH

Adapter Mode



Battery

Mode



4.1.2 Test Band = GSM1900

4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH

Adapter Mode



Battery Mode





4.1.2.1.2 Test Channel = MCH

Adapter Mode



Battery

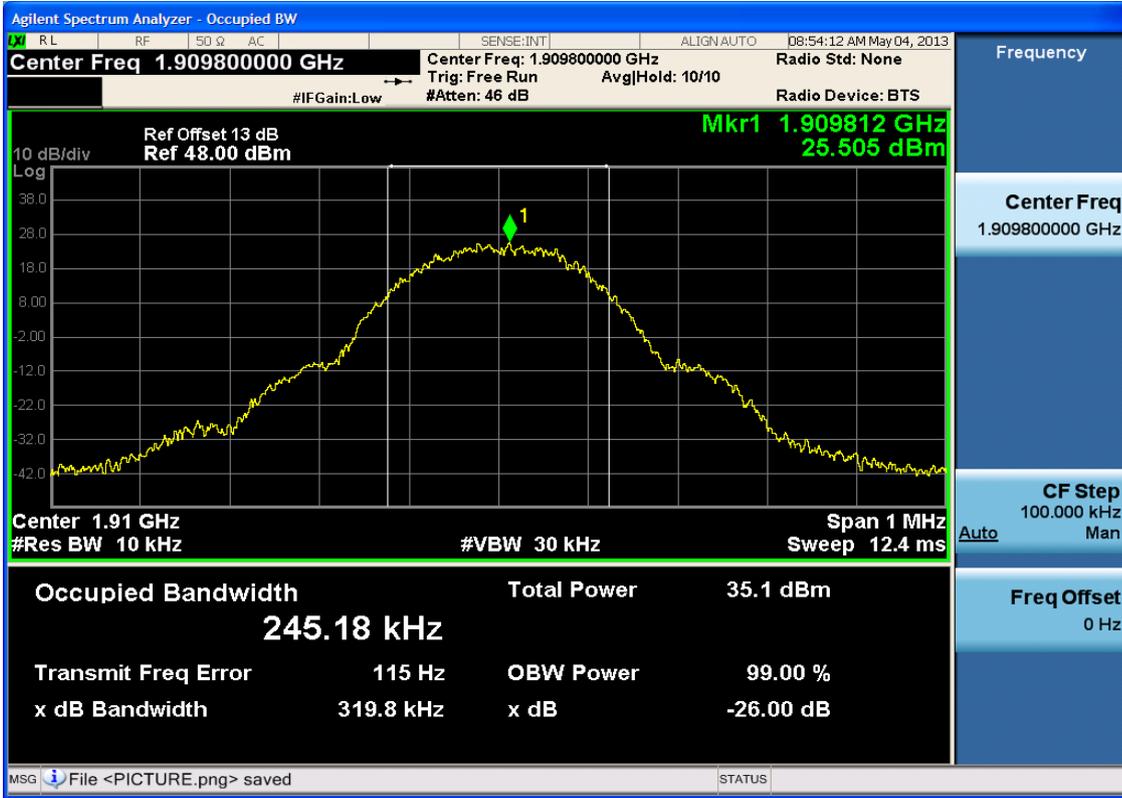
Mode





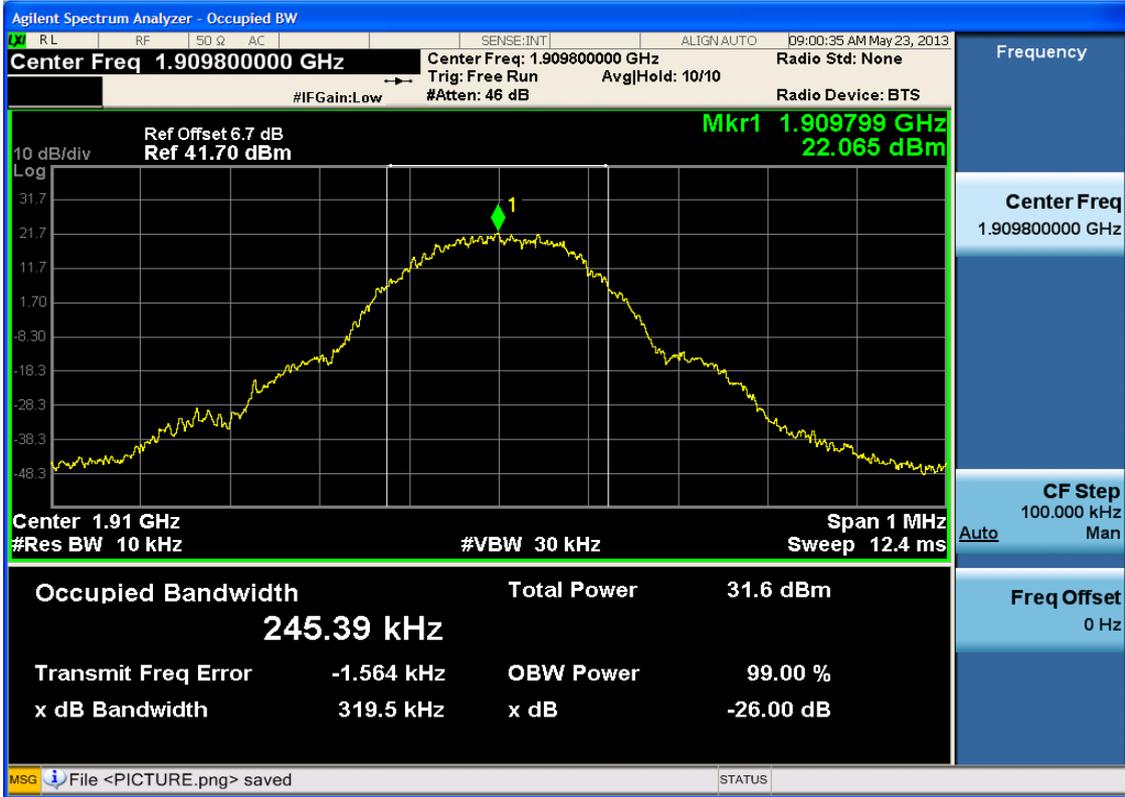
4.1.2.1.3 Test Channel = HCH

Adapter Mode



Battery

Mode





4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH

Adapter Mode



Battery

Mode





4.1.2.2.2 Test Channel = MCH

Adapter Mode



Battery

Mode





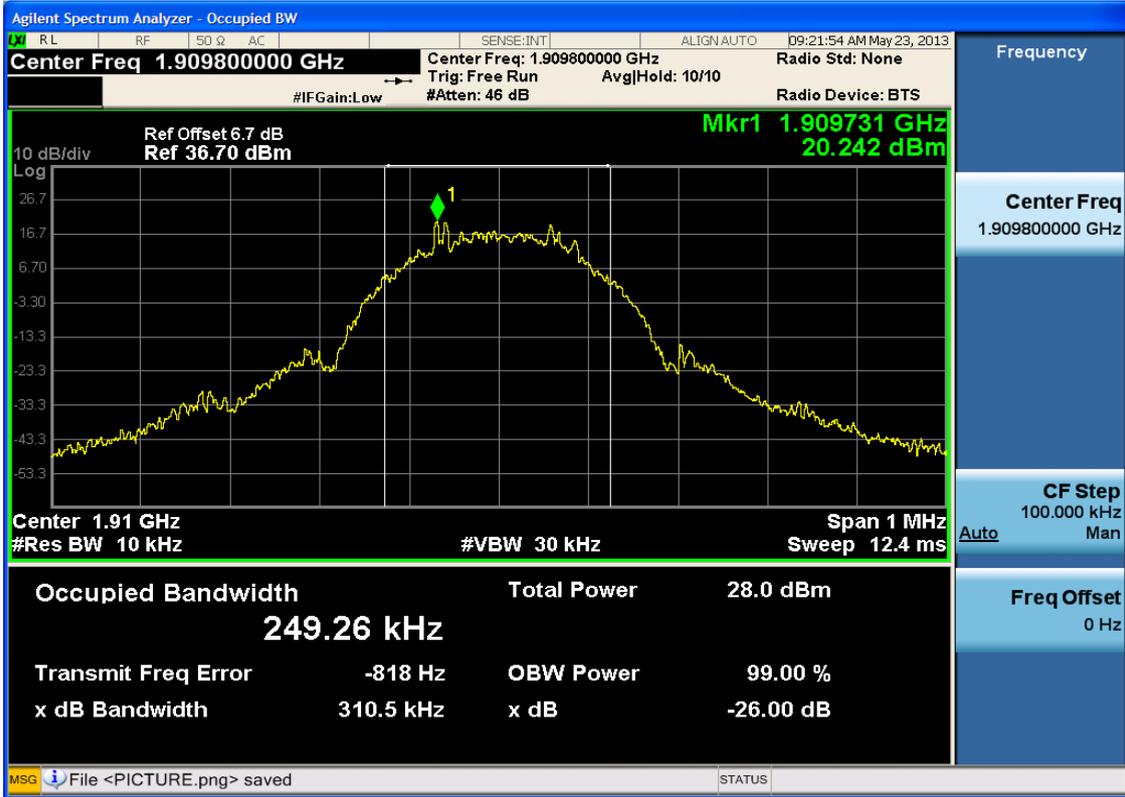
4.1.2.2.3 Test Channel = HCH

Adapter Mode



Battery

Mode

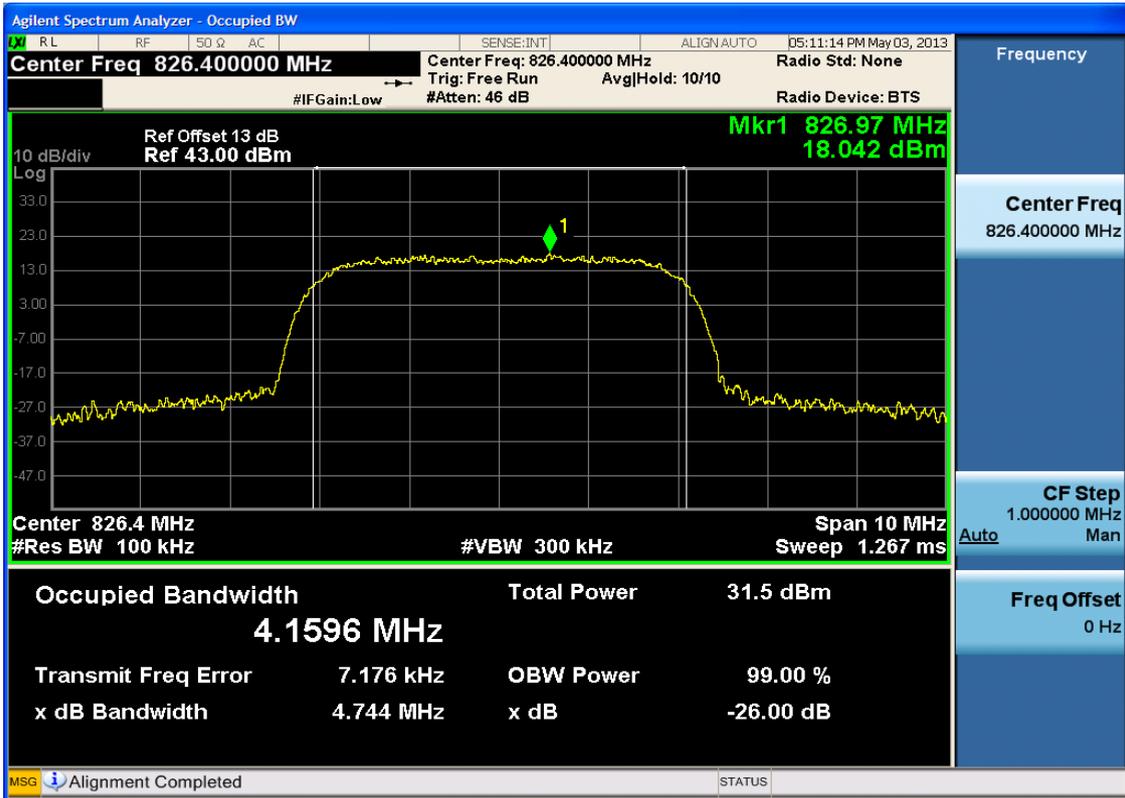


4.2 For UMTS

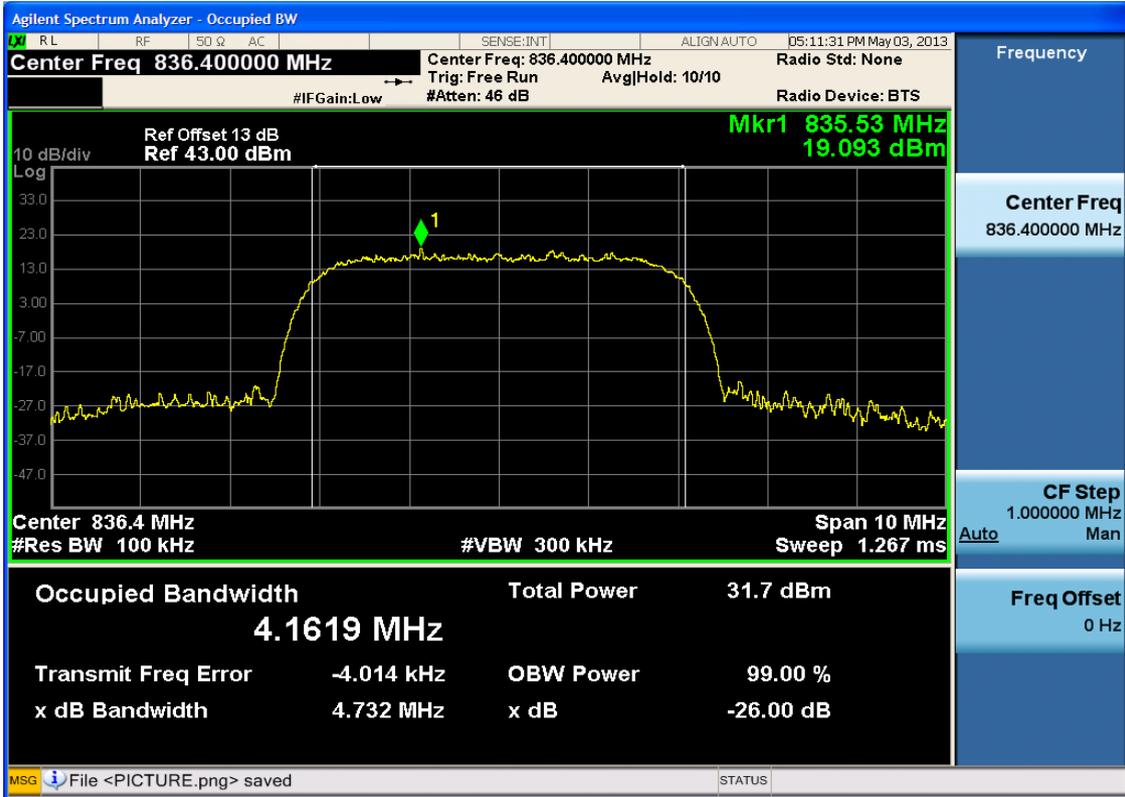
4.2.1 Test Band = WCDMA850

4.2.1.1 Test Mode = UMTS/TM1

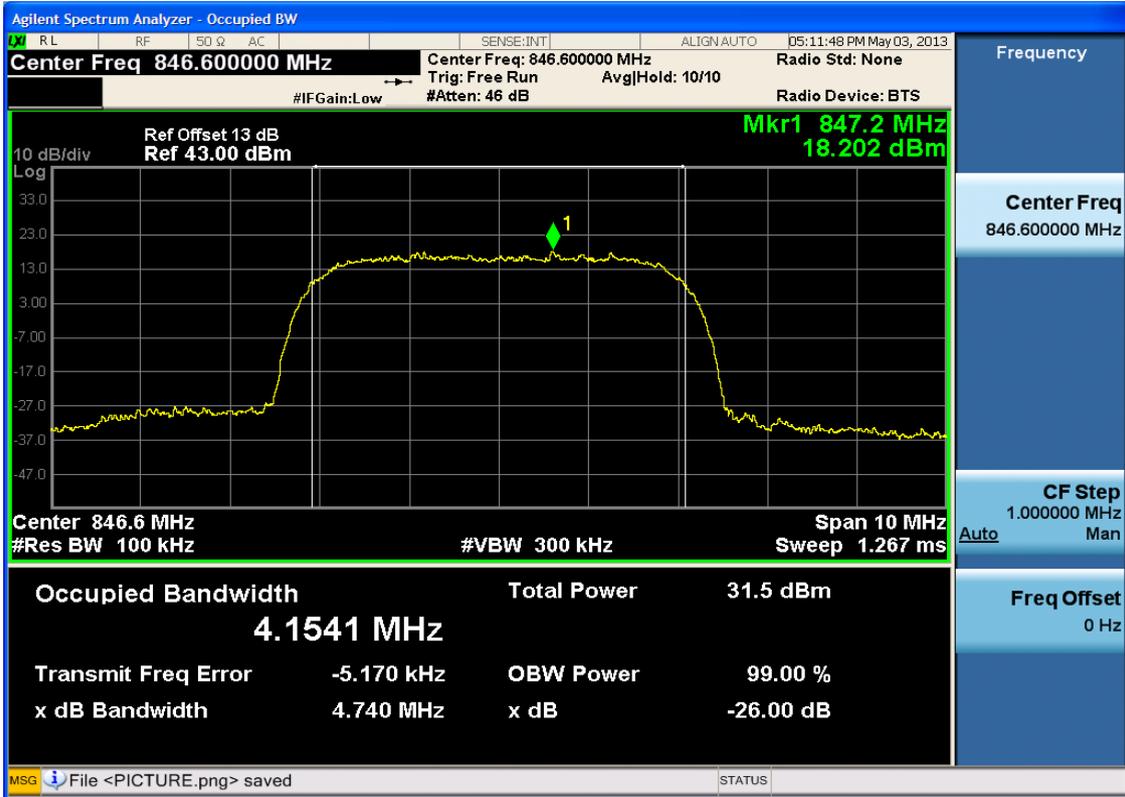
4.2.1.1.1 Test Channel = LCH



4.2.1.1.2 Test Channel = MCH



4.2.1.1.3 Test Channel = HCH

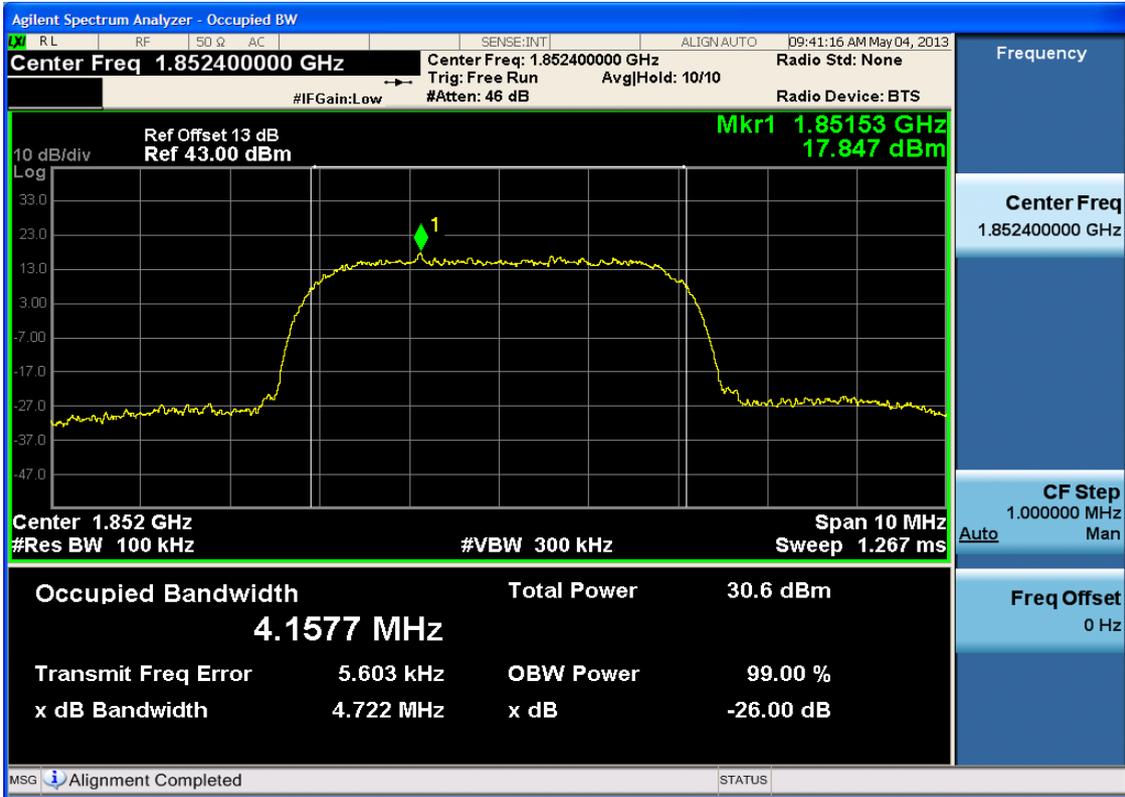




4.2.2 Test Band = WCDMA1900

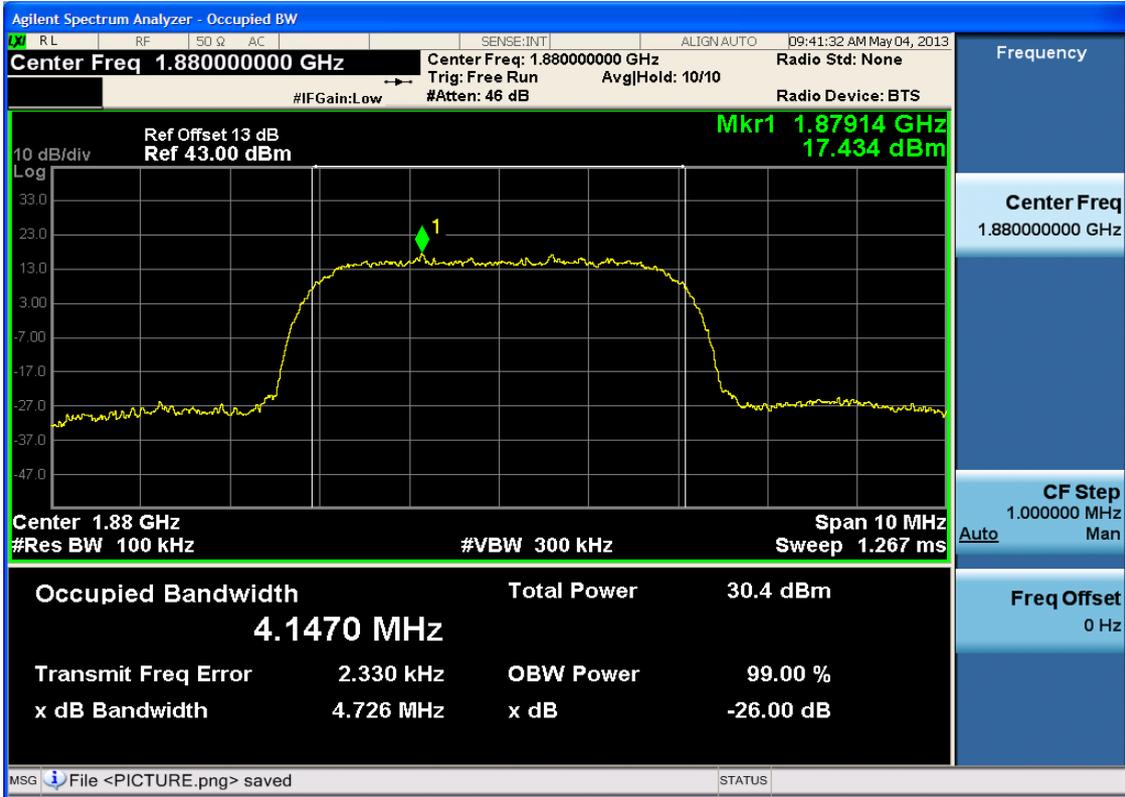
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH

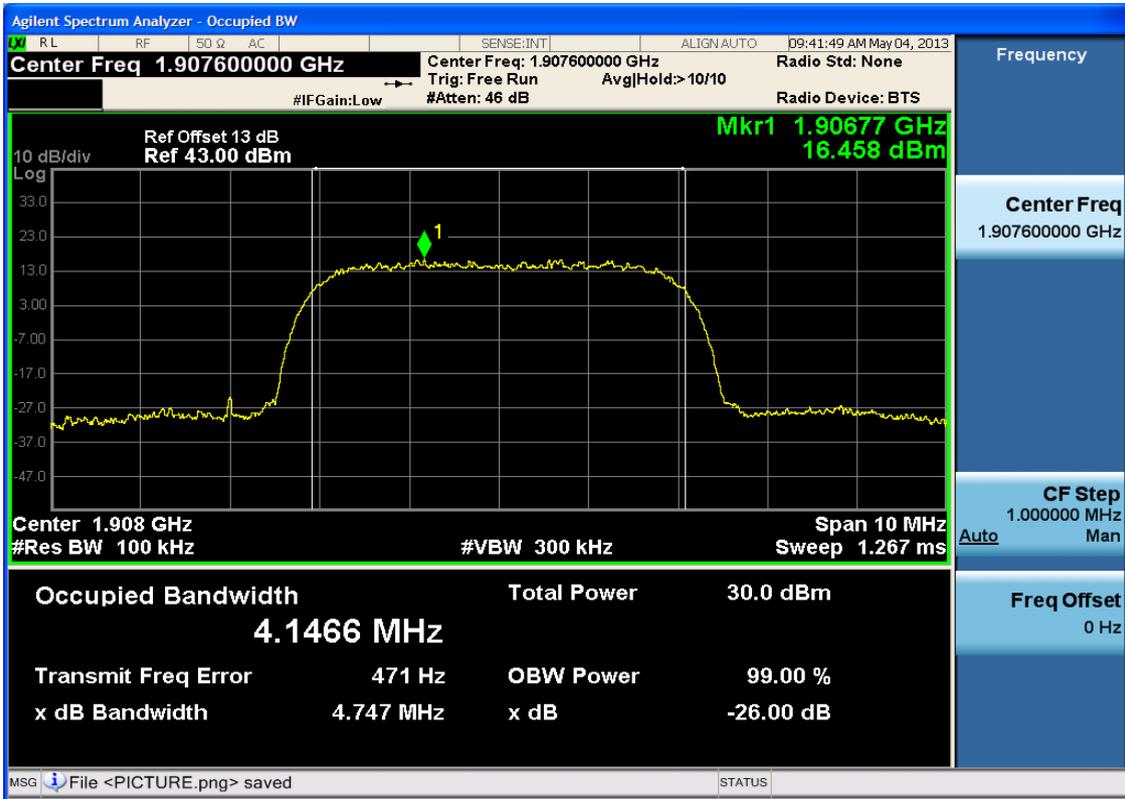




4.2.2.1.2 Test Channel = MCH



4.2.2.1.3 Test Channel = HCH





4.3 For LTE

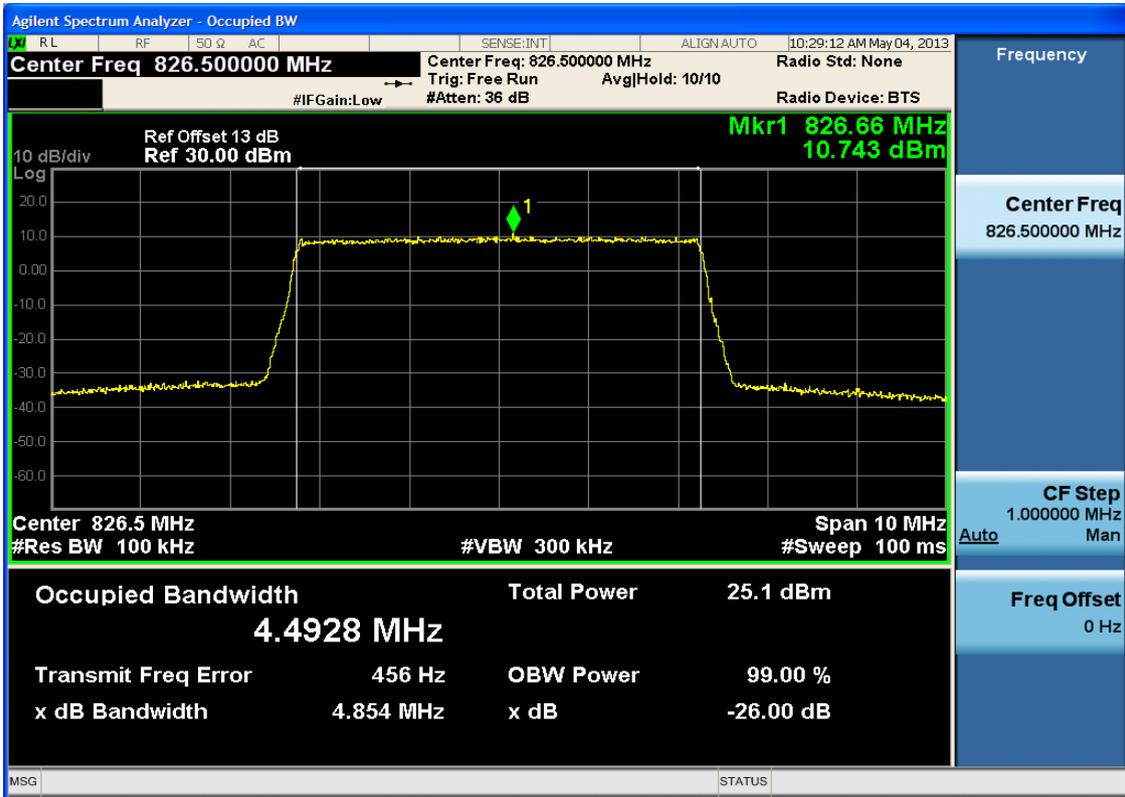
4.3.1 Test Band = BAND5

4.3.1.1 Test Mode = LTE/TM1

4.3.1.1.1 Test Bandwidth = 5

4.3.1.1.1.1 Test Channel = LCH

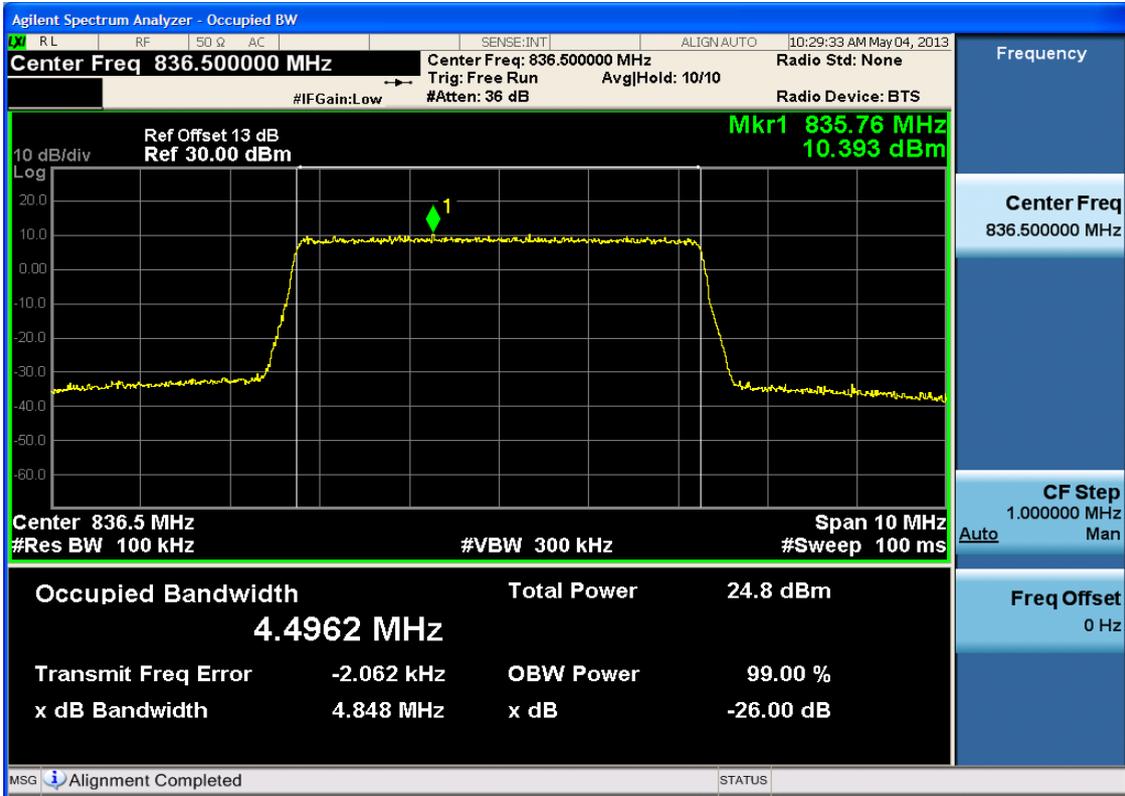
4.3.1.1.1.1.1 Test RB = RB25#0





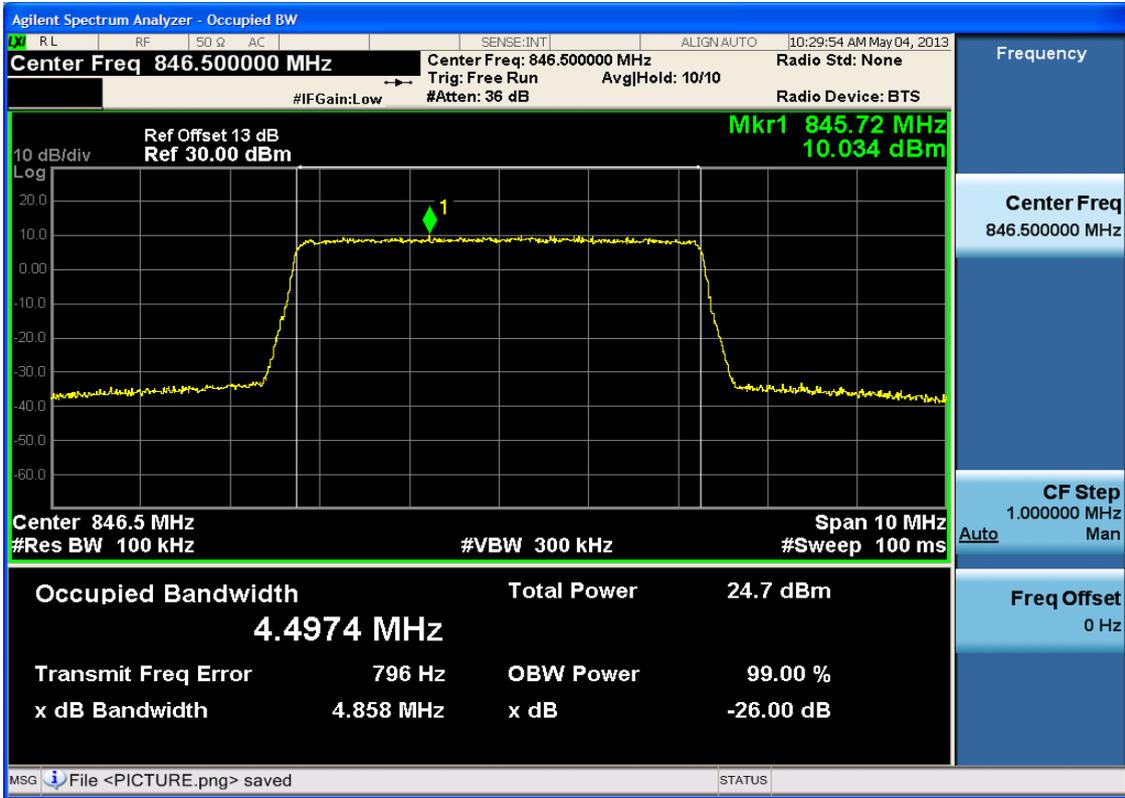
4.3.1.1.1.2 Test Channel = MCH

4.3.1.1.1.2.1 Test RB = RB25#0



4.3.1.1.1.3 Test Channel = HCH

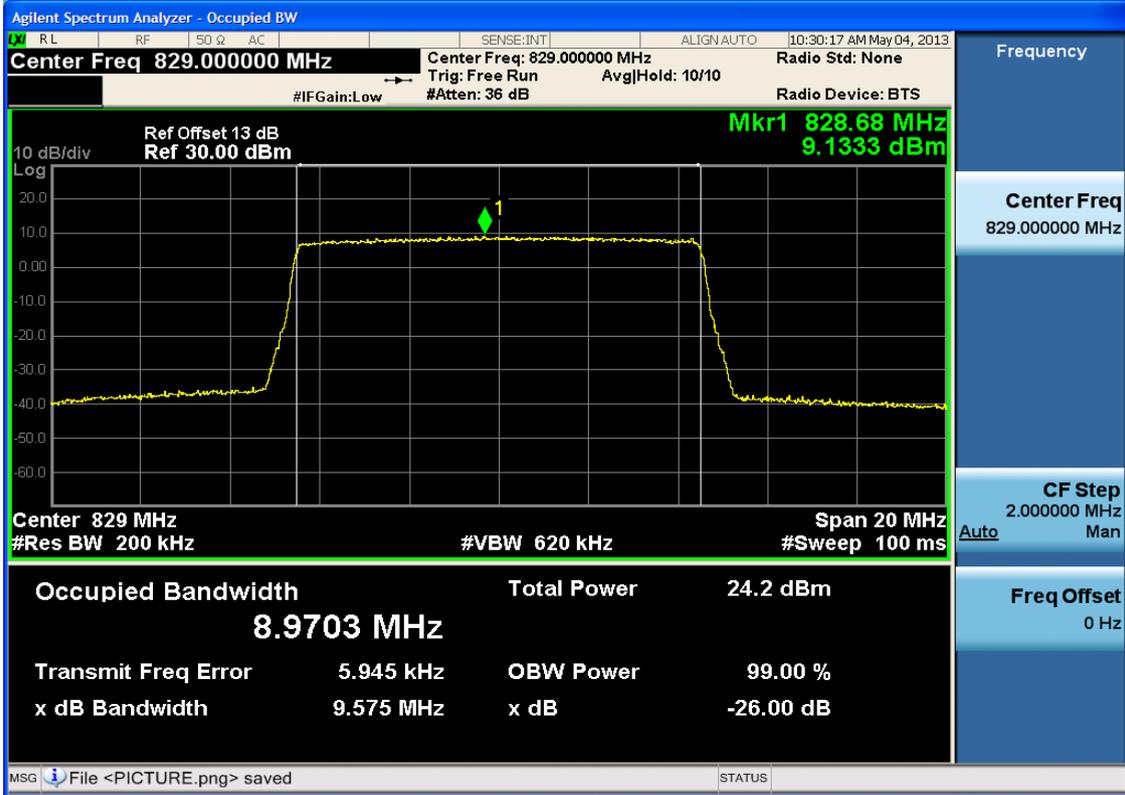
4.3.1.1.1.3.1 Test RB = RB25#0



4.3.1.1.2 Test Bandwidth = 10

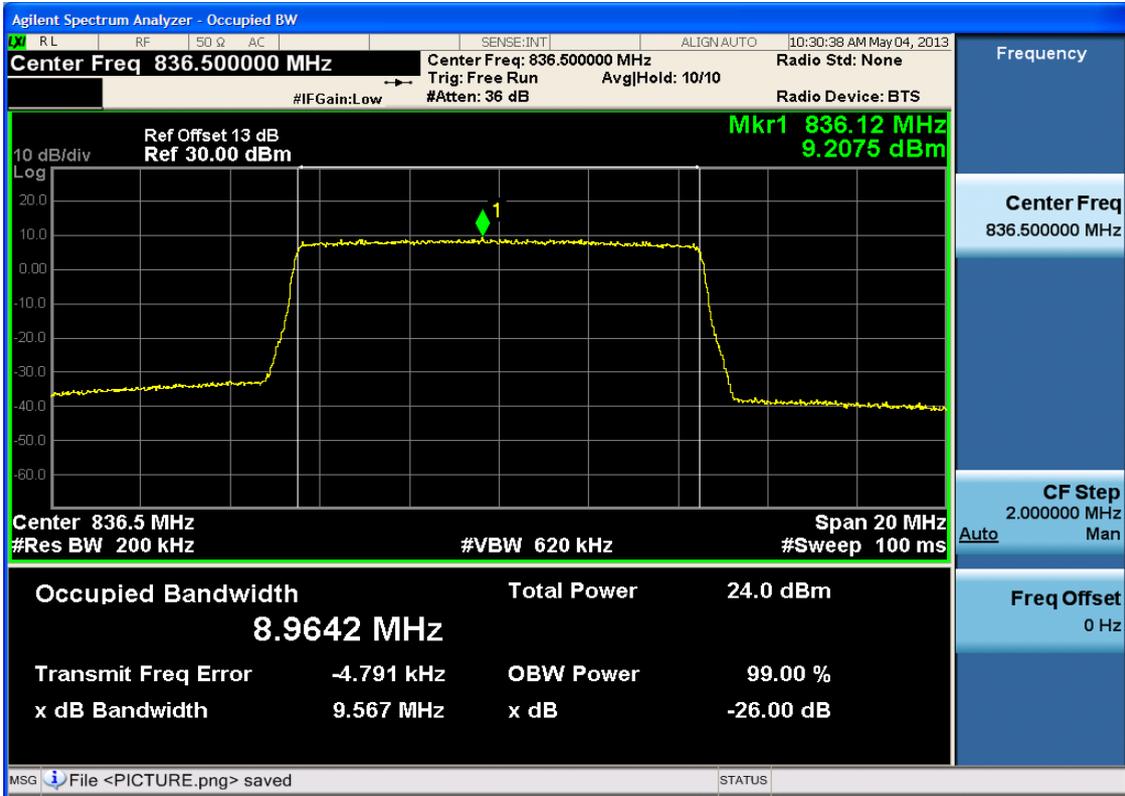
4.3.1.1.2.1 Test Channel = LCH

4.3.1.1.2.1.1 Test RB = RB50#0



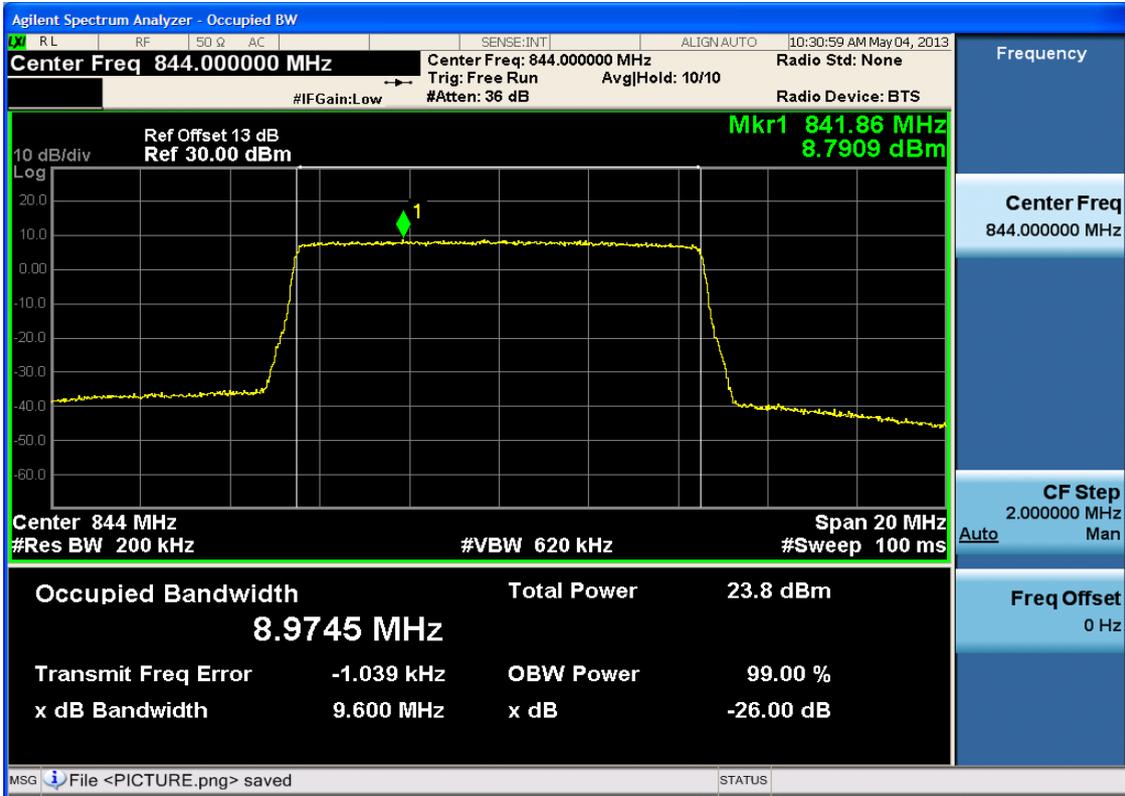
4.3.1.1.2.2 Test Channel = MCH

4.3.1.1.2.2.1 Test RB = RB50#0



4.3.1.1.2.3 Test Channel = HCH

4.3.1.1.2.3.1 Test RB = RB50#0



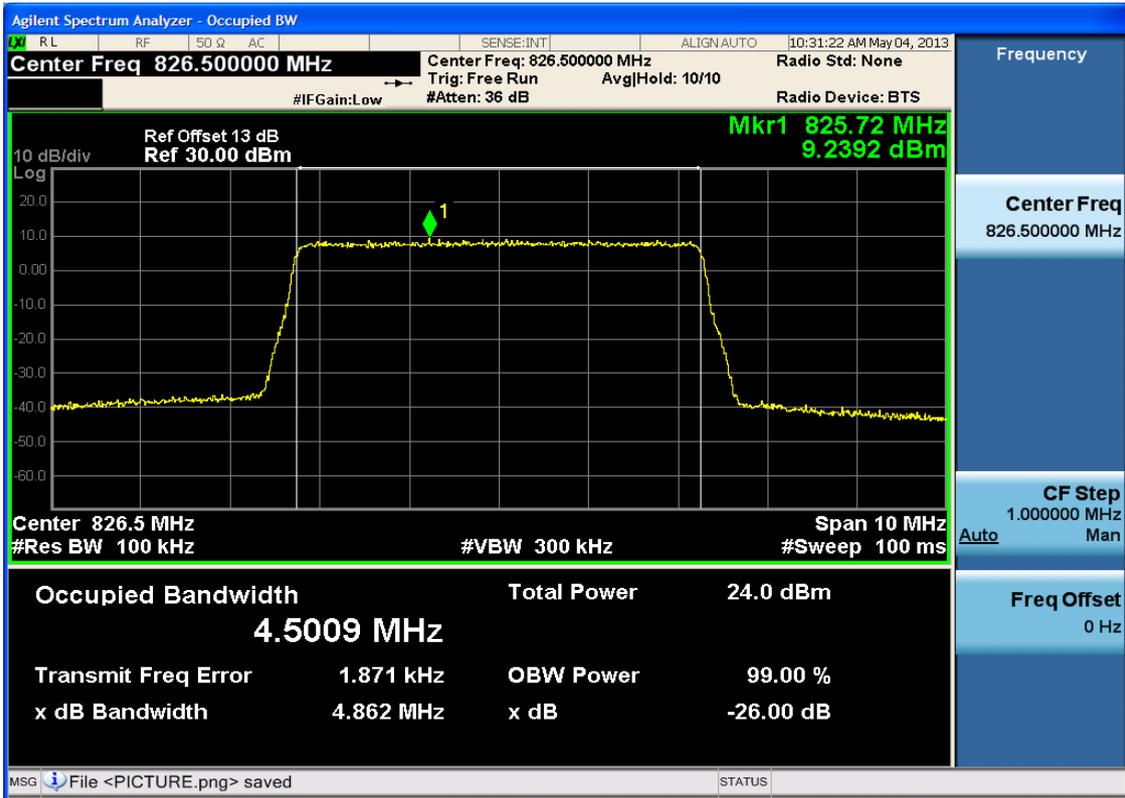


4.3.1.2 Test Mode = LTE/TM2

4.3.1.2.1 Test Bandwidth = 5

4.3.1.2.1.1 Test Channel = LCH

4.3.1.2.1.1.1 Test RB = RB25#0



4.3.1.2.1.2 Test Channel = MCH

4.3.1.2.1.2.1 Test RB = RB25#0

