



Appendix for test report

1 Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.35	31.2	38.5	PASS
		MCH	32.75	31.6	38.5	PASS
		HCH	32.91	31.76	38.5	PASS
	GSM/TM2	LCH	25.98	24.83	38.5	PASS
		MCH	25.97	24.82	38.5	PASS
		HCH	25.89	24.74	38.5	PASS
WCDMA850	UMTS/TM1	LCH	21.95	20.8	38.5	PASS
		MCH	22.04	20.89	38.5	PASS
		HCH	21.86	20.71	38.5	PASS
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.37	32.37	33	PASS
		MCH	29	32	33	PASS
		HCH	28.88	31.88	33	PASS
	GSM/TM2	LCH	25.61	28.61	33	PASS
		MCH	25.57	28.57	33	PASS
		HCH	25.61	28.61	33	PASS
WCDMA1900	UMTS/TM1	LCH	22.36	25.36	33	PASS
		MCH	22.01	25.01	33	PASS
		HCH	21.85	24.85	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP/EIR P [dBm]	Limit [dBm]	Verdict
BAND5	LTE/TM1	5	LCH	RB1#0	22.12	20.97	38.5	PASS
				RB1#13	22.83	21.68	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
				RB1#24	22.16	21.01	38.5	PASS
				RB12#0	21.59	20.44	38.5	PASS
				RB12#6	21.79	20.64	38.5	PASS
				RB12#13	21.61	20.46	38.5	PASS
				RB25#0	21.6	20.45	38.5	PASS
			MCH	RB1#0	21.9	20.75	38.5	PASS
				RB1#13	22.69	21.54	38.5	PASS
				RB1#24	22.17	21.02	38.5	PASS
				RB12#0	21.81	20.66	38.5	PASS
				RB12#6	22	20.85	38.5	PASS
				RB12#13	21.78	20.63	38.5	PASS
				RB25#0	21.78	20.63	38.5	PASS
			HCH	RB1#0	22.21	21.06	38.5	PASS
				RB1#13	22.81	21.66	38.5	PASS
				RB1#24	22.02	20.87	38.5	PASS
				RB12#0	21.69	20.54	38.5	PASS
				RB12#6	21.93	20.78	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
				RB12#13	21.6	20.45	38.5	PASS
				RB25#0	21.7	20.55	38.5	PASS
		10	LCH	RB1#0	21.95	20.8	38.5	PASS
				RB1#25	22.65	21.5	38.5	PASS
				RB1#49	22.15	21	38.5	PASS
				RB25#0	21.14	19.99	38.5	PASS
				RB25#13	21.44	20.29	38.5	PASS
				RB25#25	21.3	20.15	38.5	PASS
				RB50#0	21.21	20.06	38.5	PASS
			MCH	RB1#0	22.21	21.06	38.5	PASS
				RB1#25	22.67	21.52	38.5	PASS
				RB1#49	22.07	20.92	38.5	PASS
				RB25#0	21.32	20.17	38.5	PASS
				RB25#13	21.45	20.3	38.5	PASS
				RB25#25	21.17	20.02	38.5	PASS
			HCH	RB50#0	21.18	20.03	38.5	PASS
				RB1#0	21.73	20.58	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP/EIR P [dBm]	Limit [dBm]	Verdict
				RB1#25	22.61	21.46	38.5	PASS
				RB1#49	22.03	20.88	38.5	PASS
				RB25#0	21.26	20.11	38.5	PASS
				RB25#13	21.44	20.29	38.5	PASS
				RB25#25	21.21	20.06	38.5	PASS
				RB50#0	21.17	20.02	38.5	PASS
BAND5	LTE/TM2	5	LCH	RB1#0	22.11	20.96	38.5	PASS
				RB1#13	22.82	21.67	38.5	PASS
				RB1#24	22.22	21.07	38.5	PASS
				RB12#0	21.43	20.28	38.5	PASS
				RB12#6	21.64	20.49	38.5	PASS
				RB12#13	21.47	20.32	38.5	PASS
			MCH	RB25#0	21.43	20.28	38.5	PASS
				RB1#0	22.44	21.29	38.5	PASS
				RB1#13	22.84	21.69	38.5	PASS
				RB1#24	22.15	21	38.5	PASS
				RB12#0	21.48	20.33	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP/EIR P [dBm]	Limit [dBm]	Verdict
				RB12#6	21.66	20.51	38.5	PASS
				RB12#13	21.48	20.33	38.5	PASS
				RB25#0	21.47	20.32	38.5	PASS
			HCH	RB1#0	22.26	21.11	38.5	PASS
				RB1#13	22.82	21.67	38.5	PASS
				RB1#24	22.09	20.94	38.5	PASS
				RB12#0	21.42	20.27	38.5	PASS
				RB12#6	21.63	20.48	38.5	PASS
				RB12#13	21.32	20.17	38.5	PASS
				RB25#0	21.42	20.27	38.5	PASS
		10	LCH	RB1#0	22.07	20.92	38.5	PASS
				RB1#25	22.67	21.52	38.5	PASS
				RB1#49	22.26	21.11	38.5	PASS
				RB25#0	21.04	19.89	38.5	PASS
RB25#13	21.32			20.17	38.5	PASS		
RB25#25	21.16			20.01	38.5	PASS		
RB50#0	21.08			19.93	38.5	PASS		



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP/EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.28	21.13	38.5	PASS
				RB1#25	22.58	21.43	38.5	PASS
				RB1#49	22.12	20.97	38.5	PASS
				RB25#0	21.11	19.96	38.5	PASS
				RB25#13	21.23	20.08	38.5	PASS
				RB25#25	20.98	19.83	38.5	PASS
				RB50#0	20.99	19.84	38.5	PASS
			HCH	RB1#0	21.77	20.62	38.5	PASS
				RB1#25	22.73	21.58	38.5	PASS
				RB1#49	22.09	20.94	38.5	PASS
				RB25#0	21.04	19.89	38.5	PASS
				RB25#13	21.21	20.06	38.5	PASS
				RB25#25	20.98	19.83	38.5	PASS
				RB50#0	20.96	19.81	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict
----------------	-----------	----------------	--------------	---------	----------------	-----------	-------------	---------



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	21.33	24.33	33	PASS
				RB1#13	22.22	25.22	33	PASS
				RB1#24	21.72	24.72	33	PASS
				RB12#0	21.25	24.25	33	PASS
				RB12#6	21.51	24.51	33	PASS
				RB12#13	21.25	24.25	33	PASS
				RB25#0	21.3	24.3	33	PASS
			MCH	RB1#0	21.75	24.75	33	PASS
				RB1#13	22.38	25.38	33	PASS
				RB1#24	21.66	24.66	33	PASS
				RB12#0	21.41	24.41	33	PASS
				RB12#6	21.62	24.62	33	PASS
				RB12#13	21.38	24.38	33	PASS
				RB25#0	21.39	24.39	33	PASS
			HCH	RB1#0	21.49	24.49	33	PASS
				RB1#13	21.85	24.85	33	PASS
				RB1#24	21.14	24.14	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict	
				RB12#0	21.01	24.01	33	PASS	
				RB12#6	21.16	24.16	33	PASS	
				RB12#13	20.84	23.84	33	PASS	
				RB25#0	20.92	23.92	33	PASS	
		10	LCH	RB1#0	21.88	24.88	33	PASS	
				RB1#25	22.4	25.4	33	PASS	
				RB1#49	21.98	24.98	33	PASS	
				RB25#0	21.18	24.18	33	PASS	
				RB25#13	21.39	24.39	33	PASS	
				RB25#25	21.09	24.09	33	PASS	
				RB50#0	21.24	24.24	33	PASS	
				MCH	RB1#0	22.06	25.06	33	PASS
					RB1#25	22.56	25.56	33	PASS
					RB1#49	21.89	24.89	33	PASS
					RB25#0	21.36	24.36	33	PASS
					RB25#13	21.56	24.56	33	PASS
					RB25#25	21.24	24.24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#0	21.31	24.31	33	PASS
			HCH	RB1#0	21.95	24.95	33	PASS
				RB1#25	22.11	25.11	33	PASS
				RB1#49	21.42	24.42	33	PASS
				RB25#0	20.92	23.92	33	PASS
				RB25#13	21.13	24.13	33	PASS
				RB25#25	20.81	23.81	33	PASS
				RB50#0	20.98	23.98	33	PASS
		15	LCH	RB1#0	22.09	25.09	33	PASS
				RB1#38	22.56	25.56	33	PASS
				RB1#74	21.7	24.7	33	PASS
				RB36#0	21.37	24.37	33	PASS
				RB36#18	21.44	24.44	33	PASS
				RB36#39	21.23	24.23	33	PASS
				RB75#0	21.23	24.23	33	PASS
			MCH	RB1#0	22.24	25.24	33	PASS
				RB1#38	22.47	25.47	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict	
				RB1#74	21.53	24.53	33	PASS	
				RB36#0	21.47	24.47	33	PASS	
				RB36#18	21.57	24.57	33	PASS	
				RB36#39	21.27	24.27	33	PASS	
				RB75#0	21.38	24.38	33	PASS	
			HCH	RB1#0	22.08	25.08	33	PASS	
				RB1#38	22.23	25.23	33	PASS	
				RB1#74	21.08	24.08	33	PASS	
				RB36#0	21.13	24.13	33	PASS	
				RB36#18	21.18	24.18	33	PASS	
				RB36#39	20.93	23.93	33	PASS	
				RB75#0	21.09	24.09	33	PASS	
			20	LCH	RB1#0	21.95	24.95	33	PASS
					RB1#50	21.86	24.86	33	PASS
		RB1#99			22.02	25.02	33	PASS	
		RB50#0			20.7	23.7	33	PASS	
		RB50#25			20.64	23.64	33	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict			
				RB50#50	20.76	23.76	33	PASS			
				RB100#0	20.83	23.83	33	PASS			
			MCH	RB1#0	22.09	25.09	33	PASS			
				RB1#50	21.93	24.93	33	PASS			
				RB1#99	21.74	24.74	33	PASS			
				RB50#0	20.82	23.82	33	PASS			
				RB50#25	20.76	23.76	33	PASS			
				RB50#50	20.66	23.66	33	PASS			
				RB100#0	20.74	23.74	33	PASS			
				HCH	RB1#0	21.87	24.87	33	PASS		
			RB1#50		21.67	24.67	33	PASS			
			RB1#99		21.39	24.39	33	PASS			
			RB50#0		20.78	23.78	33	PASS			
			RB50#25		20.66	23.66	33	PASS			
			RB50#50		20.45	23.45	33	PASS			
							RB100#0	20.63	23.63	33	PASS
				LTE/TM2	5	LCH	RB1#0	21.31	24.31	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#13	22	25	33	PASS
				RB1#24	21.52	24.52	33	PASS
				RB12#0	20.95	23.95	33	PASS
				RB12#6	21.44	24.44	33	PASS
				RB12#13	21.17	24.17	33	PASS
				RB25#0	21.22	24.22	33	PASS
			MCH	RB1#0	21.71	24.71	33	PASS
				RB1#13	22.31	25.31	33	PASS
				RB1#24	21.64	24.64	33	PASS
				RB12#0	21.16	24.16	33	PASS
				RB12#6	21.37	24.37	33	PASS
				RB12#13	21.13	24.13	33	PASS
				RB25#0	21.1	24.1	33	PASS
			HCH	RB1#0	21.48	24.48	33	PASS
				RB1#13	22.05	25.05	33	PASS
				RB1#24	21.35	24.35	33	PASS
				RB12#0	21	24	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict	
				RB12#6	21.14	24.14	33	PASS	
				RB12#13	20.83	23.83	33	PASS	
				RB25#0	20.88	23.88	33	PASS	
		10	LCH	RB1#0	21.86	24.86	33	PASS	
				RB1#25	22.4	25.4	33	PASS	
				RB1#49	21.91	24.91	33	PASS	
				RB25#0	21.14	24.14	33	PASS	
				RB25#13	21.34	24.34	33	PASS	
				RB25#25	21.06	24.06	33	PASS	
				RB50#0	21.2	24.2	33	PASS	
				MCH	RB1#0	22.2	25.2	33	PASS
					RB1#25	22.68	25.68	33	PASS
					RB1#49	22.09	25.09	33	PASS
					RB25#0	21.34	24.34	33	PASS
					RB25#13	21.54	24.54	33	PASS
RB25#25	21.24	24.24	33		PASS				
RB50#0	21.28	24.28	33		PASS				

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.99	24.99	33	PASS
				RB1#25	22.3	25.3	33	PASS
				RB1#49	21.66	24.66	33	PASS
				RB25#0	20.97	23.97	33	PASS
				RB25#13	21.16	24.16	33	PASS
				RB25#25	20.87	23.87	33	PASS
				RB50#0	20.99	23.99	33	PASS
		15	LCH	RB1#0	22.11	25.11	33	PASS
				RB1#38	22.59	25.59	33	PASS
				RB1#74	21.77	24.77	33	PASS
				RB36#0	21.25	24.25	33	PASS
				RB36#18	21.33	24.33	33	PASS
				RB36#39	21.11	24.11	33	PASS
				RB75#0	21.12	24.12	33	PASS
		MCH	RB1#0	22.21	25.21	33	PASS	
			RB1#38	22.46	25.46	33	PASS	
			RB1#74	21.55	24.55	33	PASS	

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB36#0	21.31	24.31	33	PASS
				RB36#18	21.4	24.4	33	PASS
				RB36#39	21.11	24.11	33	PASS
				RB75#0	21.23	24.23	33	PASS
			HCH	RB1#0	22.2	25.2	33	PASS
				RB1#38	22.34	25.34	33	PASS
				RB1#74	21.42	24.42	33	PASS
				RB36#0	21.19	24.19	33	PASS
			RB36#18	21.24	24.24	33	PASS	
			RB36#39	20.99	23.99	33	PASS	
			RB75#0	21.17	24.17	33	PASS	
			20	LCH	RB1#0	21.88	24.88	33
		RB1#50			21.81	24.81	33	PASS
		RB1#99			21.97	24.97	33	PASS
		RB50#0			20.54	23.54	33	PASS
		RB50#25			20.49	23.49	33	PASS
		RB50#50			20.61	23.61	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB100#0	20.67	23.67	33	PASS
			MCH	RB1#0	22.14	25.14	33	PASS
				RB1#50	21.95	24.95	33	PASS
				RB1#99	21.82	24.82	33	PASS
				RB50#0	20.68	23.68	33	PASS
				RB50#25	20.62	23.62	33	PASS
				RB50#50	20.53	23.53	33	PASS
				RB100#0	20.59	23.59	33	PASS
				HCH	RB1#0	21.83	24.83	33
			RB1#50		21.64	24.64	33	PASS
			RB1#99		21.39	24.39	33	PASS
			RB50#0		20.86	23.86	33	PASS
			RB50#25		20.75	23.75	33	PASS
			RB50#50		20.55	23.55	33	PASS
			RB100#0		20.71	23.71	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
GSM850	GSM/TM1	LCH	0.37	13	PASS
		MCH	0.38	13	PASS
		HCH	0.34	13	PASS
	GSM/TM2	LCH	2.75	13	PASS
		MCH	2.75	13	PASS
		HCH	2.81	13	PASS
GSM1900	GSM/TM1	LCH	0.33	13	PASS
		MCH	0.28	13	PASS
		HCH	0.26	13	PASS
	GSM/TM2	LCH	2.78	13	PASS
		MCH	2.69	13	PASS
		HCH	2.6	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA850	UMTS/TM1	LCH	2.82	13	PASS
		MCH	2.72	13	PASS
		HCH	2.63	13	PASS
WCDMA1900	UMTS/TM1	LCH	2.85	13	PASS
		MCH	2.83	13	PASS
		HCH	2.8	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	4.58	13	PASS
				RB1#13	4.32	13	PASS
				RB1#24	4.58	13	PASS
				RB12#0	5.65	13	PASS
				RB12#6	5.53	13	PASS
				RB12#13	5.79	13	PASS
			RB25#0	5.59	13	PASS	
			MCH	RB1#0	4.07	13	PASS
				RB1#13	3.4	13	PASS
				RB1#24	4.12	13	PASS
				RB12#0	4.88	13	PASS
				RB12#6	4.56	13	PASS
				RB12#13	5	13	PASS
			RB25#0	5.36	13	PASS	
			HCH	RB1#0	4.31	13	PASS
				RB1#13	3.42	13	PASS
				RB1#24	3.73	13	PASS
				RB12#0	5.07	13	PASS
		RB12#6		4.51	13	PASS	
		RB12#13		4.72	13	PASS	
		RB25#0	5.44	13	PASS		
		10	LCH	RB1#0	4.42	13	PASS
				RB1#25	4.02	13	PASS
				RB1#49	3.77	13	PASS
				RB25#0	5.81	13	PASS
				RB25#13	5.43	13	PASS
				RB25#25	5.43	13	PASS
			RB50#0	5.84	13	PASS	
			MCH	RB1#0	3.85	13	PASS
				RB1#25	3.55	13	PASS
RB1#49	4.34			13	PASS		
RB25#0	5.22			13	PASS		
RB25#13	5.01			13	PASS		
RB25#25	5.53	13		PASS			
RB50#0	5.87	13	PASS				
HCH	RB1#0	4.34	13	PASS			
	RB1#25	3.89	13	PASS			
	RB1#49	3.71	13	PASS			

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2	5		RB25#0	5.72	13	PASS
				RB25#13	5.24	13	PASS
				RB25#25	5.36	13	PASS
				RB50#0	5.73	13	PASS
			LCH	RB1#0	5.14	13	PASS
				RB1#13	4.64	13	PASS
				RB1#24	5.02	13	PASS
				RB12#0	5.89	13	PASS
				RB12#6	5.43	13	PASS
				RB12#13	5.75	13	PASS
			MCH	RB25#0	6.1	13	PASS
				RB1#0	4.15	13	PASS
				RB1#13	3.6	13	PASS
				RB1#24	4.44	13	PASS
				RB12#0	5.04	13	PASS
				RB12#6	4.7	13	PASS
		HCH	RB12#13	5.16	13	PASS	
			RB25#0	5.61	13	PASS	
			RB1#0	4.41	13	PASS	
			RB1#13	3.61	13	PASS	
			RB1#24	3.8	13	PASS	
			RB12#0	5.19	13	PASS	
		10	LCH	RB12#6	4.63	13	PASS
				RB12#13	4.82	13	PASS
				RB25#0	5.8	13	PASS
				RB1#0	4.69	13	PASS
				RB1#25	4.2	13	PASS
				RB1#49	4.03	13	PASS
			MCH	RB25#0	6.17	13	PASS
				RB25#13	5.69	13	PASS
				RB25#25	5.69	13	PASS
				RB50#0	6.22	13	PASS
RB1#0	4.09			13	PASS		
RB1#25	3.73			13	PASS		
	RB1#49		4.6	13	PASS		
	RB25#0		5.36	13	PASS		
	RB25#13		5.09	13	PASS		
	RB25#25		5.74	13	PASS		
		RB50#0	6.09	13	PASS		

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	4.64	13	PASS
				RB1#25	4.13	13	PASS
				RB1#49	4.15	13	PASS
				RB25#0	5.98	13	PASS
				RB25#13	5.52	13	PASS
				RB25#25	5.6	13	PASS
				RB50#0	6.25	13	PASS
BAND7	LTE/TM1	5	LCH	RB1#0	3.69	13	PASS
				RB1#13	2.86	13	PASS
				RB1#24	3.49	13	PASS
				RB12#0	4.41	13	PASS
				RB12#6	4.05	13	PASS
				RB12#13	4.35	13	PASS
			RB25#0	5.09	13	PASS	
			MCH	RB1#0	3.76	13	PASS
				RB1#13	3.1	13	PASS
				RB1#24	3.59	13	PASS
				RB12#0	4.55	13	PASS
				RB12#6	4.19	13	PASS
		RB12#13		4.54	13	PASS	
		HCH	RB1#0	3.56	13	PASS	
			RB1#13	3	13	PASS	
			RB1#24	3.45	13	PASS	
			RB12#0	4.57	13	PASS	
			RB12#6	4.21	13	PASS	
			RB12#13	4.52	13	PASS	
		10	LCH	RB1#0	3.17	13	PASS
				RB1#25	2.84	13	PASS
RB1#49	3.52			13	PASS		
RB25#0	4.53			13	PASS		
RB25#13	4.26			13	PASS		
RB25#25	4.69			13	PASS		
RB50#0	5.07		13	PASS			
MCH	RB1#0		3.31	13	PASS		
	RB1#25		2.91	13	PASS		
	RB1#49		3.42	13	PASS		
	RB25#0		4.54	13	PASS		

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict	
				RB25#13	4.15	13	PASS	
				RB25#25	4.55	13	PASS	
				RB50#0	5.06	13	PASS	
			HCH	RB1#0	3.42	13	PASS	
				RB1#25	3.01	13	PASS	
				RB1#49	3.37	13	PASS	
				RB25#0	4.94	13	PASS	
				RB25#13	4.42	13	PASS	
				RB25#25	4.72	13	PASS	
				RB50#0	5.24	13	PASS	
				LCH	RB1#0	3.15	13	PASS
					RB1#38	3.04	13	PASS
		RB1#74	3.84		13	PASS		
		RB36#0	4.57		13	PASS		
		RB36#18	4.25		13	PASS		
		RB36#39	4.82		13	PASS		
		RB75#0	5.18		13	PASS		
		MCH	RB1#0	3.34	13	PASS		
			RB1#38	3.06	13	PASS		
			RB1#74	3.67	13	PASS		
			RB36#0	4.63	13	PASS		
			RB36#18	4.23	13	PASS		
			RB36#39	4.68	13	PASS		
			RB75#0	5.28	13	PASS		
		HCH	RB1#0	3.53	13	PASS		
			RB1#38	3.22	13	PASS		
			RB1#74	3.51	13	PASS		
			RB36#0	4.75	13	PASS		
			RB36#18	4.54	13	PASS		
			RB36#39	4.74	13	PASS		
			RB75#0	5.36	13	PASS		
		20	LCH	RB1#0	3.54	13	PASS	
				RB1#50	3.63	13	PASS	
RB1#99	3.79			13	PASS			
RB50#0	5.03			13	PASS			
RB50#25	5.11			13	PASS			
RB50#50	5.4			13	PASS			
RB100#0	5.64			13	PASS			
MCH	RB1#0		3.87	13	PASS			

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict			
				RB1#50	3.43	13	PASS			
				RB1#99	3.97	13	PASS			
				RB50#0	5.1	13	PASS			
				RB50#25	4.9	13	PASS			
				RB50#50	5.13	13	PASS			
				RB100#0	5.53	13	PASS			
			HCH	RB1#0	3.72	13	PASS			
				RB1#50	3.69	13	PASS			
				RB1#99	3.61	13	PASS			
				RB50#0	5.18	13	PASS			
				RB50#25	5.01	13	PASS			
				RB50#50	5.12	13	PASS			
					5	LCH	RB1#0	4.28	13	PASS
							RB1#13	3.29	13	PASS
	RB1#24	3.91					13	PASS		
	RB12#0	4.66					13	PASS		
	RB12#6	4.26					13	PASS		
	RB12#13	4.62					13	PASS		
	MCH	RB25#0				5.32	13	PASS		
		RB1#0				4.19	13	PASS		
		RB1#13				3.57	13	PASS		
		RB1#24				4.09	13	PASS		
		RB12#0				4.86	13	PASS		
		RB12#6				4.41	13	PASS		
	HCH	RB12#13				4.85	13	PASS		
		RB25#0				5.35	13	PASS		
		RB1#0				3.95	13	PASS		
		RB1#13				3.3	13	PASS		
		RB1#24	3.86	13	PASS					
		RB12#0	4.85	13	PASS					
		10	LCH	RB12#6	4.39	13	PASS			
				RB12#13	4.76	13	PASS			
				RB25#0	5.35	13	PASS			
				RB1#0	3.68	13	PASS			
				RB1#25	3.19	13	PASS			
				RB1#49	3.92	13	PASS			
				RB25#0	4.77	13	PASS			
				RB25#13	4.48	13	PASS			

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	4.96	13	PASS
				RB50#0	5.52	13	PASS
			MCH	RB1#0	3.75	13	PASS
				RB1#25	3.35	13	PASS
				RB1#49	3.74	13	PASS
				RB25#0	4.8	13	PASS
				RB25#13	4.33	13	PASS
				RB25#25	4.79	13	PASS
			RB50#0	5.52	13	PASS	
			HCH	RB1#0	3.76	13	PASS
				RB1#25	3.28	13	PASS
				RB1#49	3.75	13	PASS
				RB25#0	5.11	13	PASS
				RB25#13	4.61	13	PASS
		RB25#25		4.91	13	PASS	
		RB50#0	5.54	13	PASS		
		15	LCH	RB1#0	3.82	13	PASS
				RB1#38	3.35	13	PASS
				RB1#74	4.07	13	PASS
				RB36#0	4.84	13	PASS
				RB36#18	4.6	13	PASS
				RB36#39	5.02	13	PASS
			RB75#0	5.6	13	PASS	
			MCH	RB1#0	3.94	13	PASS
				RB1#38	3.4	13	PASS
				RB1#74	4.04	13	PASS
				RB36#0	4.84	13	PASS
				RB36#18	4.41	13	PASS
				RB36#39	4.84	13	PASS
			RB75#0	5.64	13	PASS	
		HCH	RB1#0	3.91	13	PASS	
			RB1#38	3.39	13	PASS	
			RB1#74	3.83	13	PASS	
RB36#0	5.04		13	PASS			
RB36#18	4.81		13	PASS			
RB36#39	4.98		13	PASS			
RB75#0	5.8	13	PASS				
20	LCH	RB1#0	3.88	13	PASS		
		RB1#50	3.68	13	PASS		

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.08	13	PASS
				RB50#0	5.24	13	PASS
				RB50#25	5.25	13	PASS
				RB50#50	5.68	13	PASS
				RB100#0	6.14	13	PASS
			MCH	RB1#0	4.13	13	PASS
				RB1#50	3.49	13	PASS
				RB1#99	4.28	13	PASS
				RB50#0	5.36	13	PASS
				RB50#25	5.1	13	PASS
				RB50#50	5.39	13	PASS
				RB100#0	6.06	13	PASS
			HCH	RB1#0	3.82	13	PASS
				RB1#50	3.76	13	PASS
				RB1#99	3.69	13	PASS
				RB50#0	5.41	13	PASS
				RB50#25	5.17	13	PASS
				RB50#50	5.35	13	PASS
				RB100#0	5.94	13	PASS

3Appendix_C: Modulation Characteristics

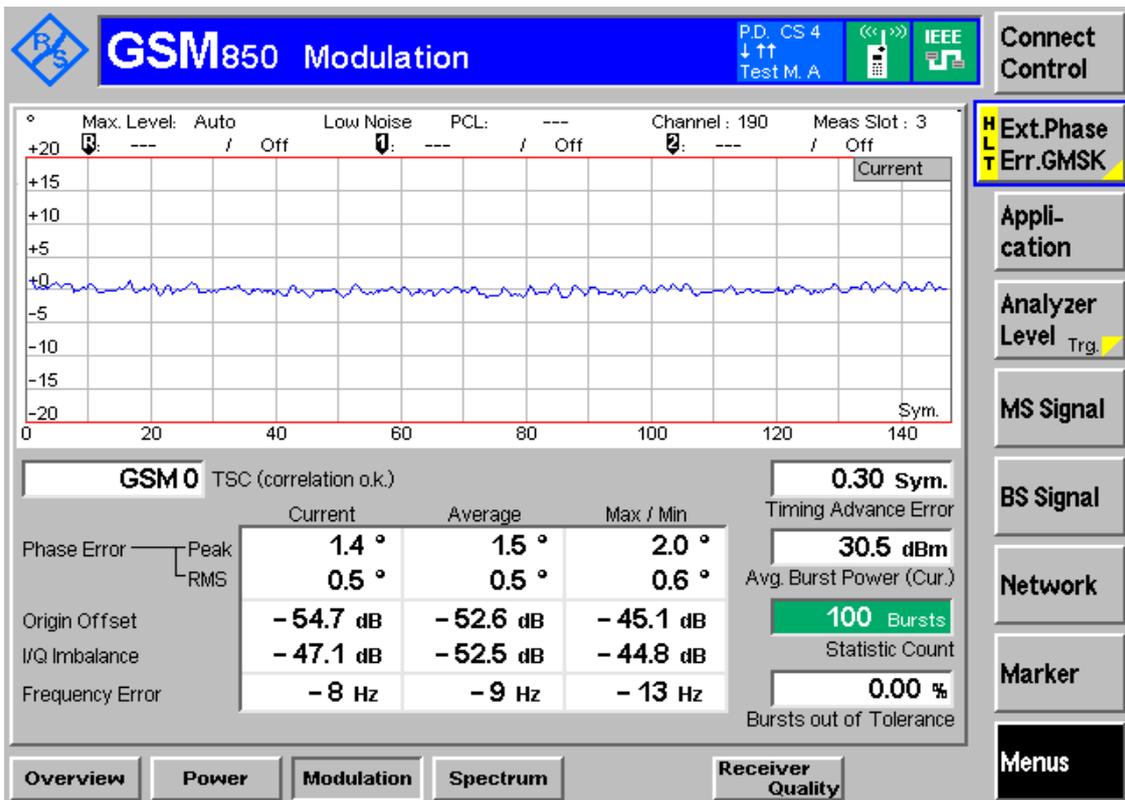
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

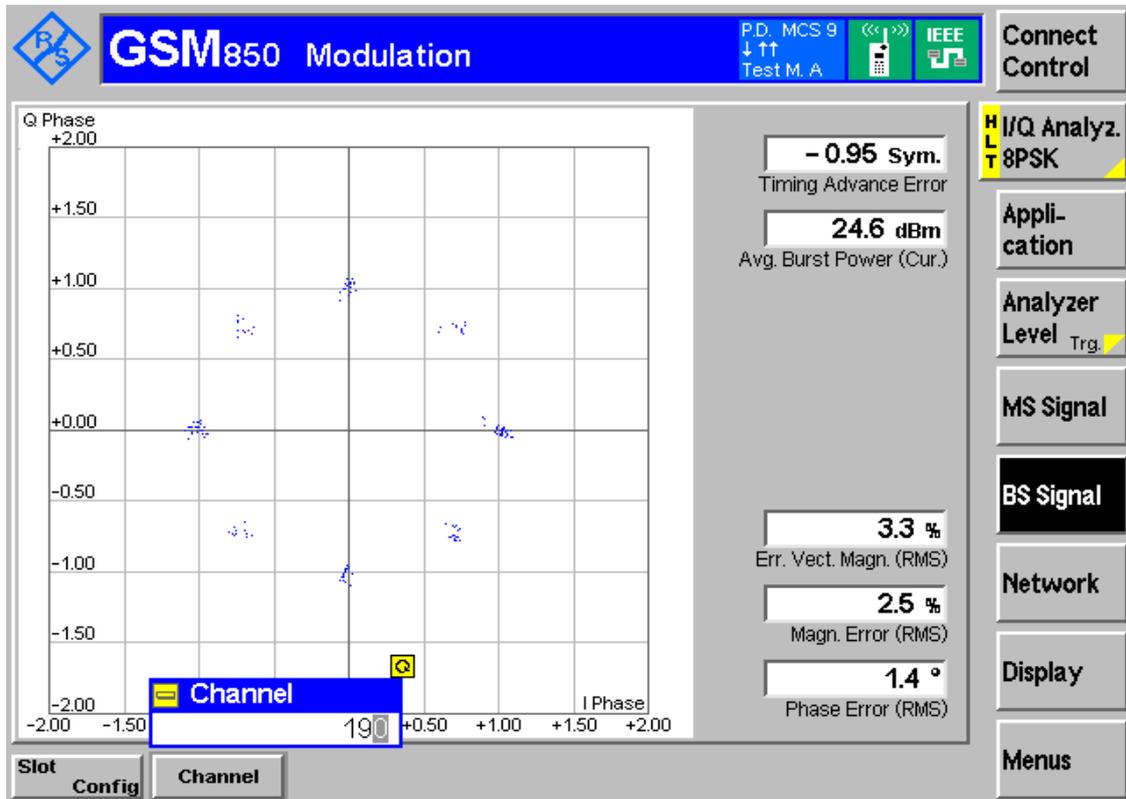
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

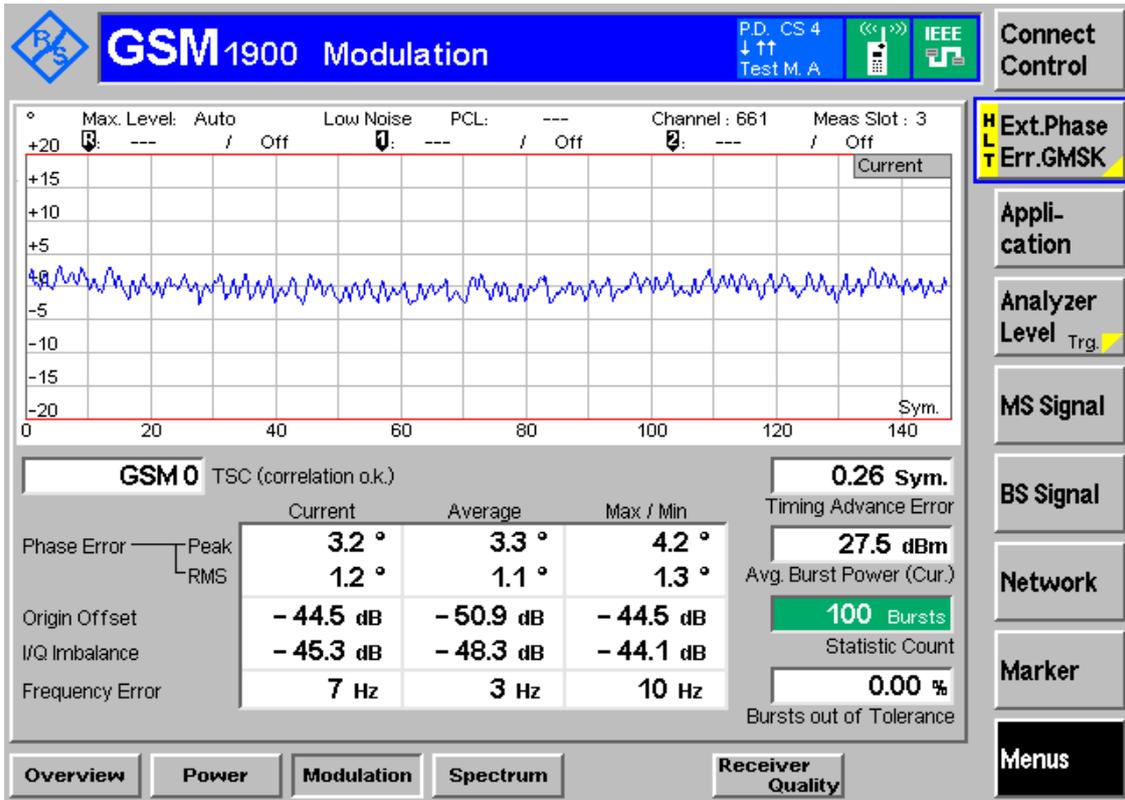
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM1900

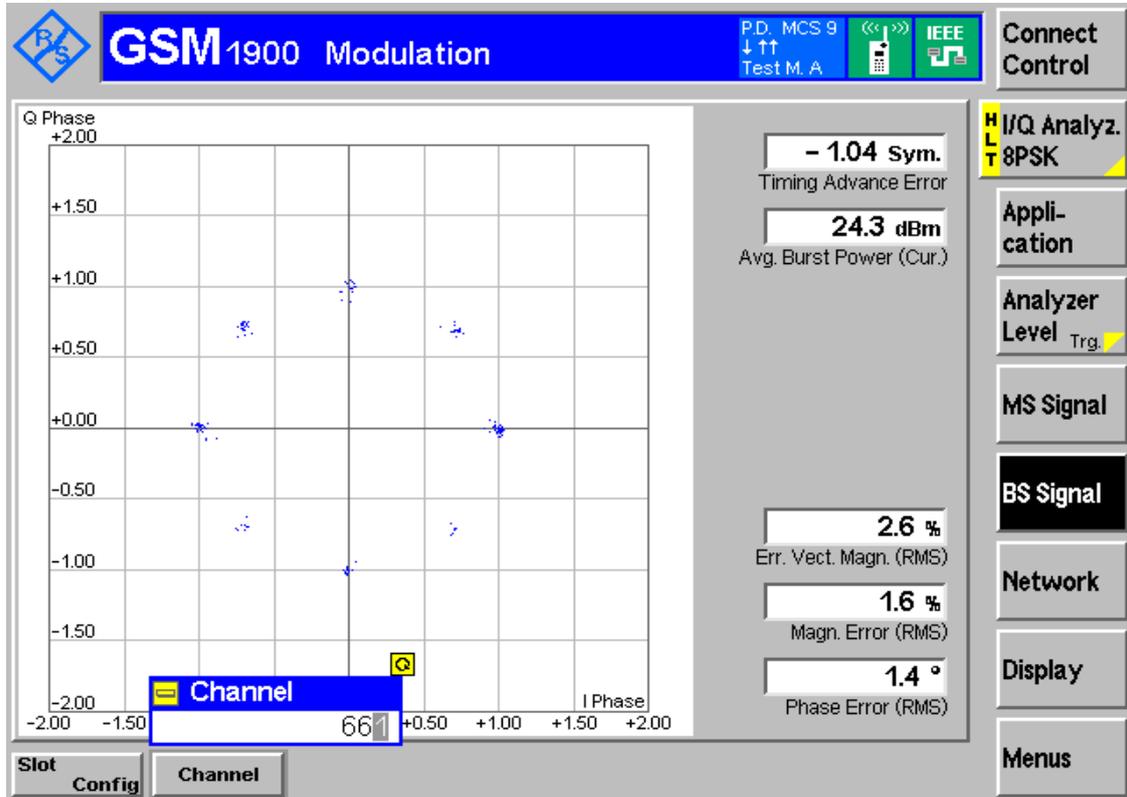
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

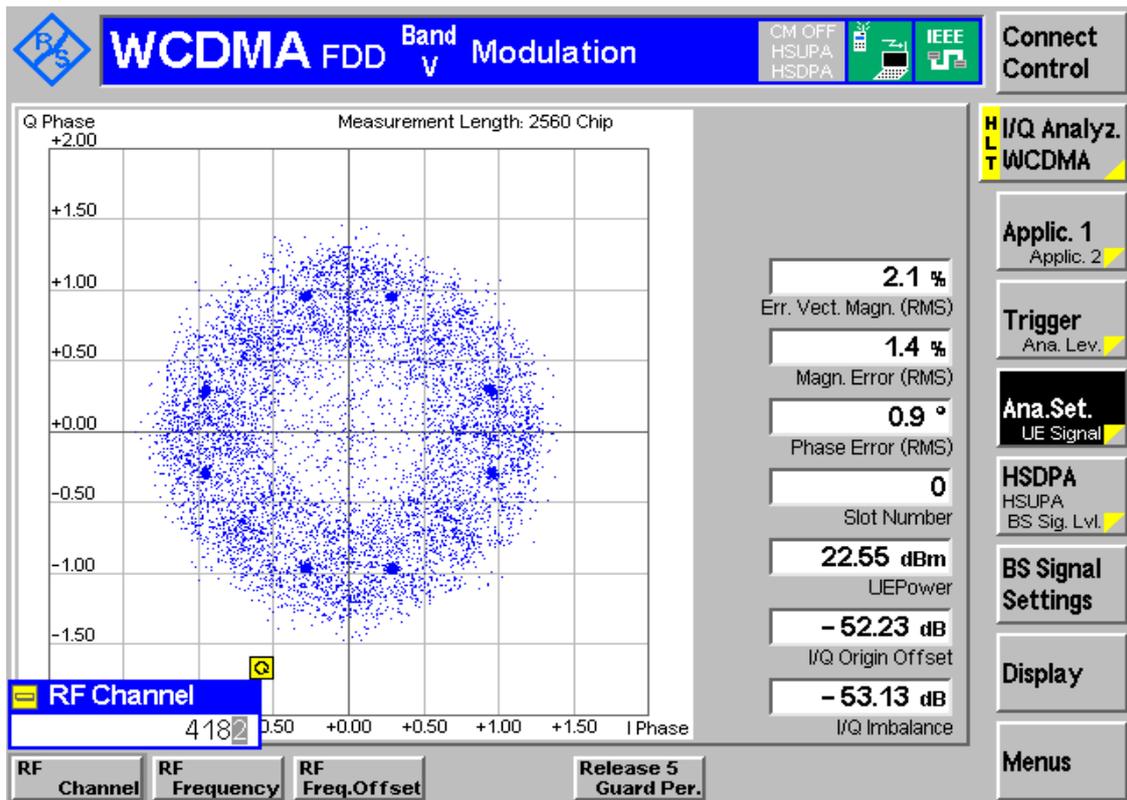


3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

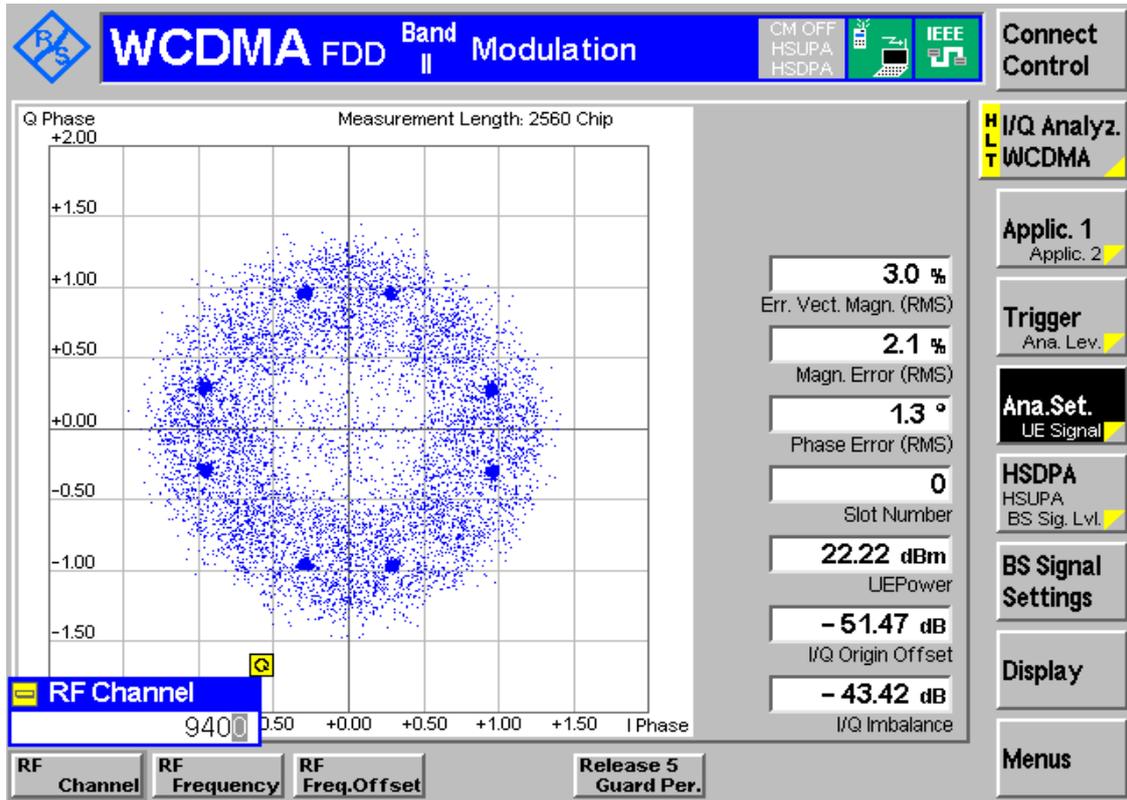
3.2.1.1.1 Test Channel = MCH



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

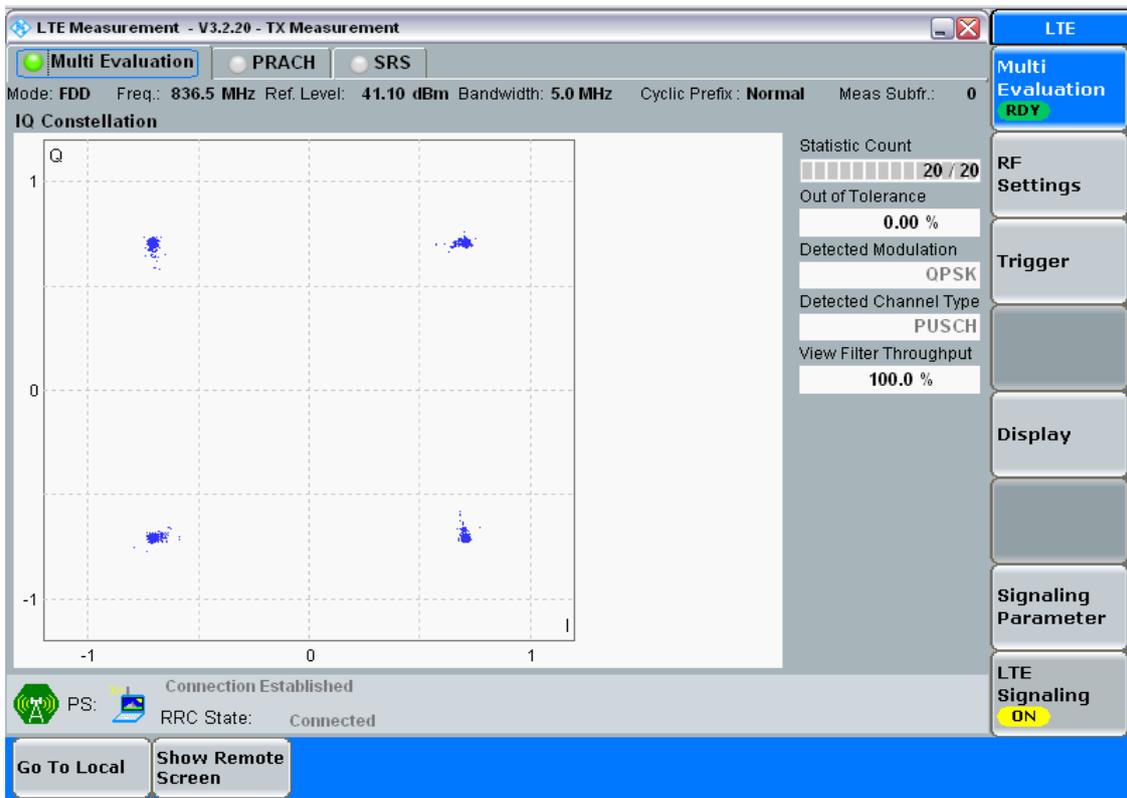
3.3.1 Test Band = BAND5

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

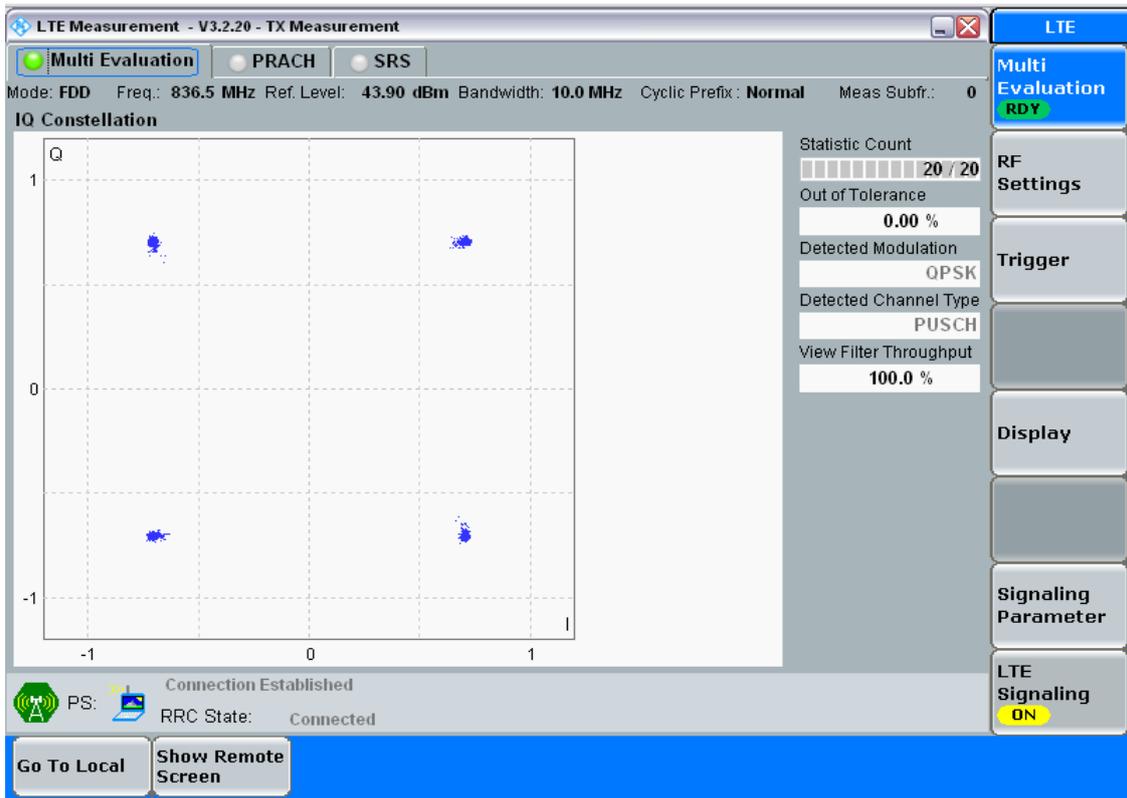
3.3.1.1.1.1.1 Test RB = RB25#0



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

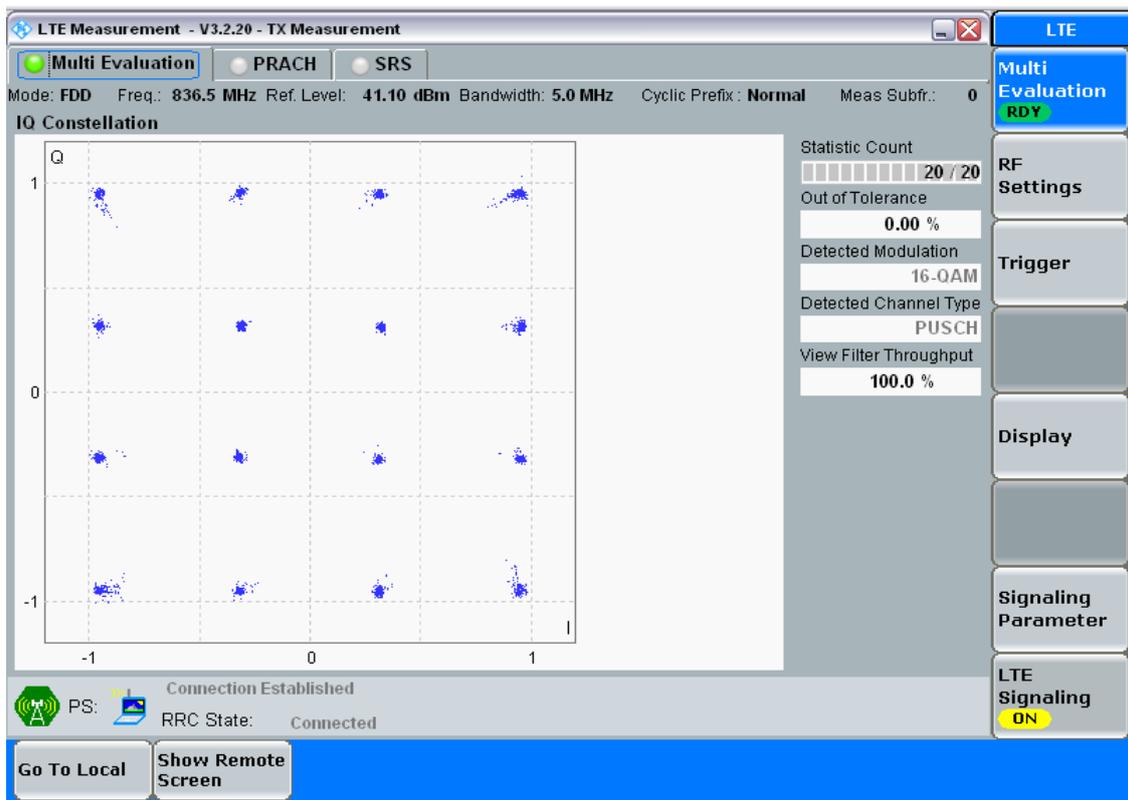


3.3.1.2 Test Mode = LTE/TM2

3.3.1.2.1 Test Bandwidth = 5

3.3.1.2.1.1 Test Channel = MCH

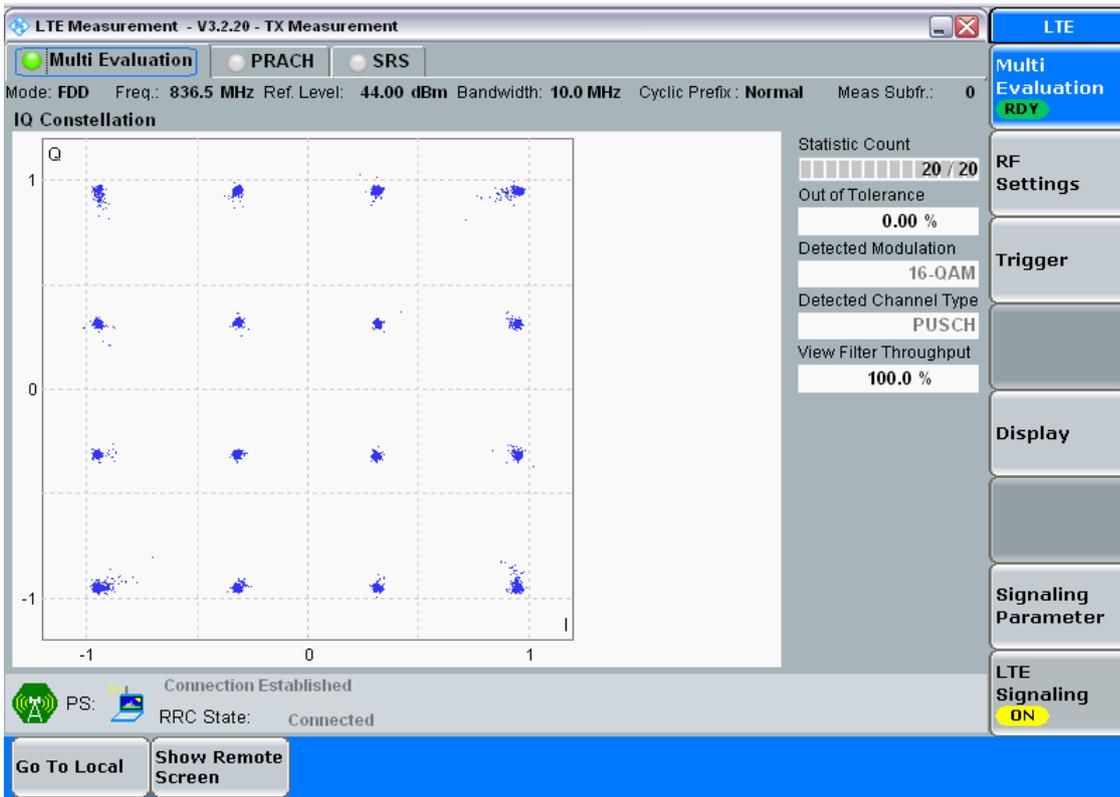
3.3.1.2.1.1.1 Test RB = RB25#0



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



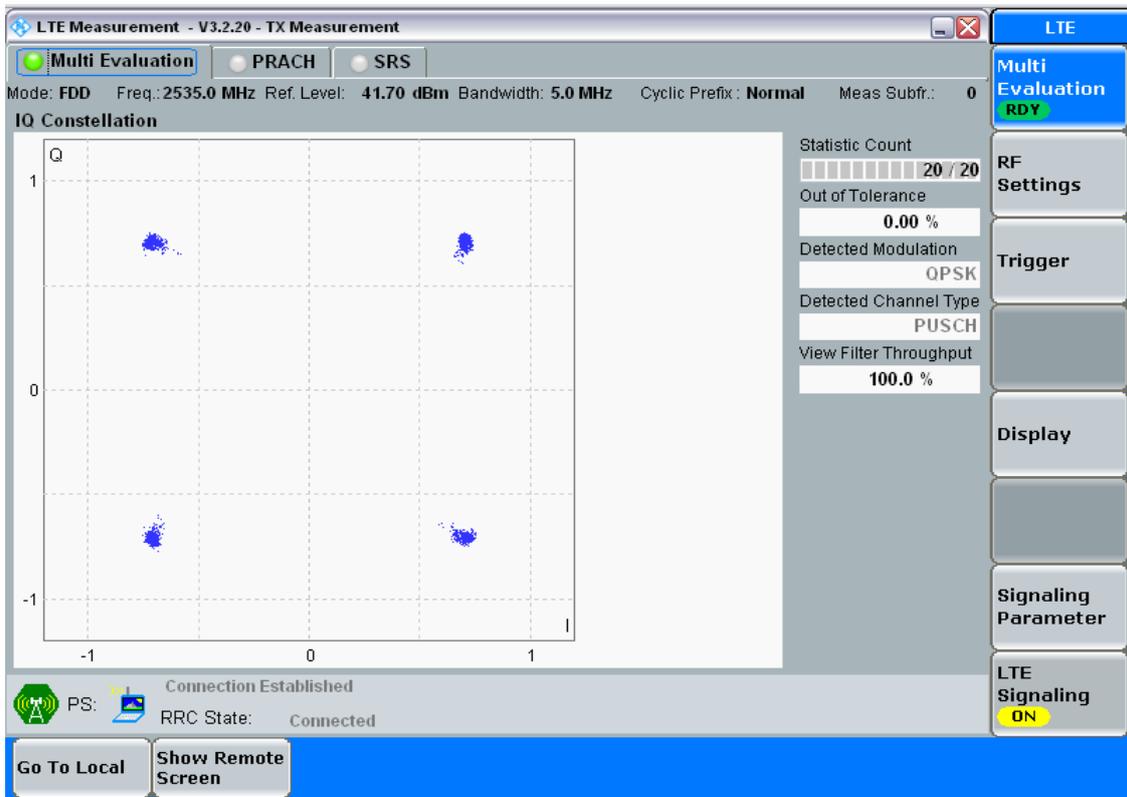
3.3.2 Test Band = BAND7

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

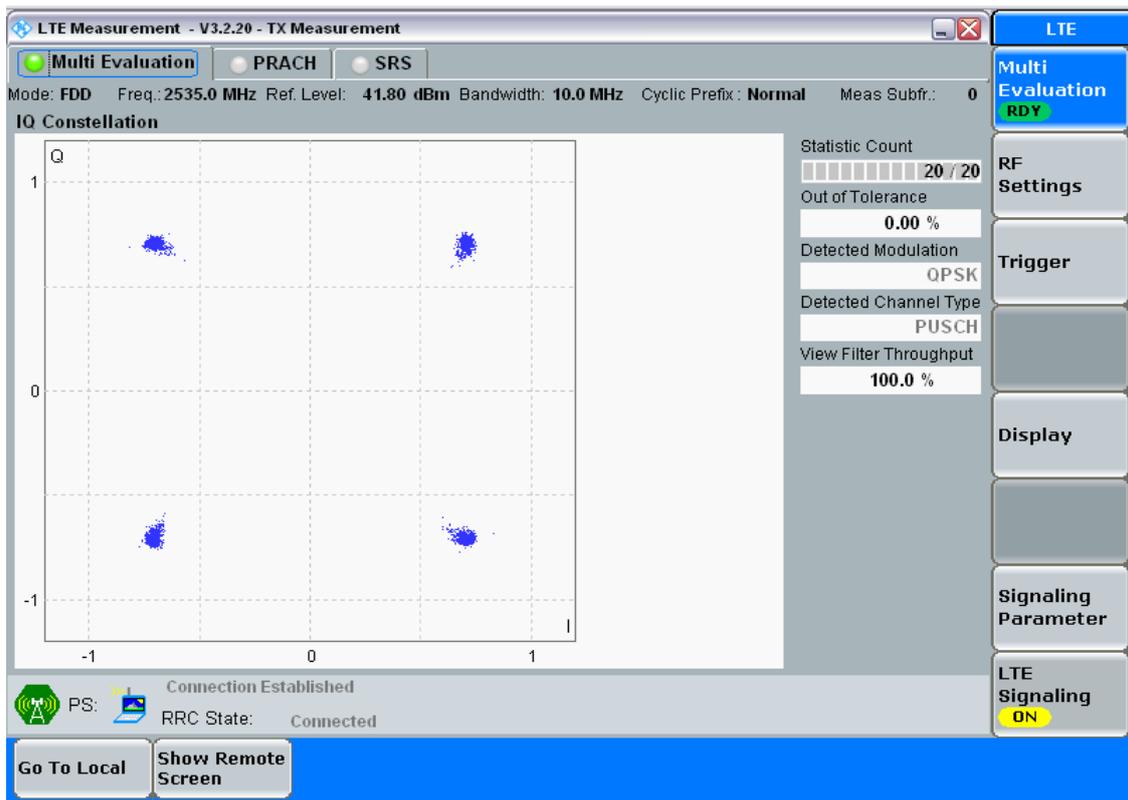
3.3.2.1.1.1.1 Test RB = RB25#0



3.3.2.1.2 Test Bandwidth = 10

3.3.2.1.2.1 Test Channel = MCH

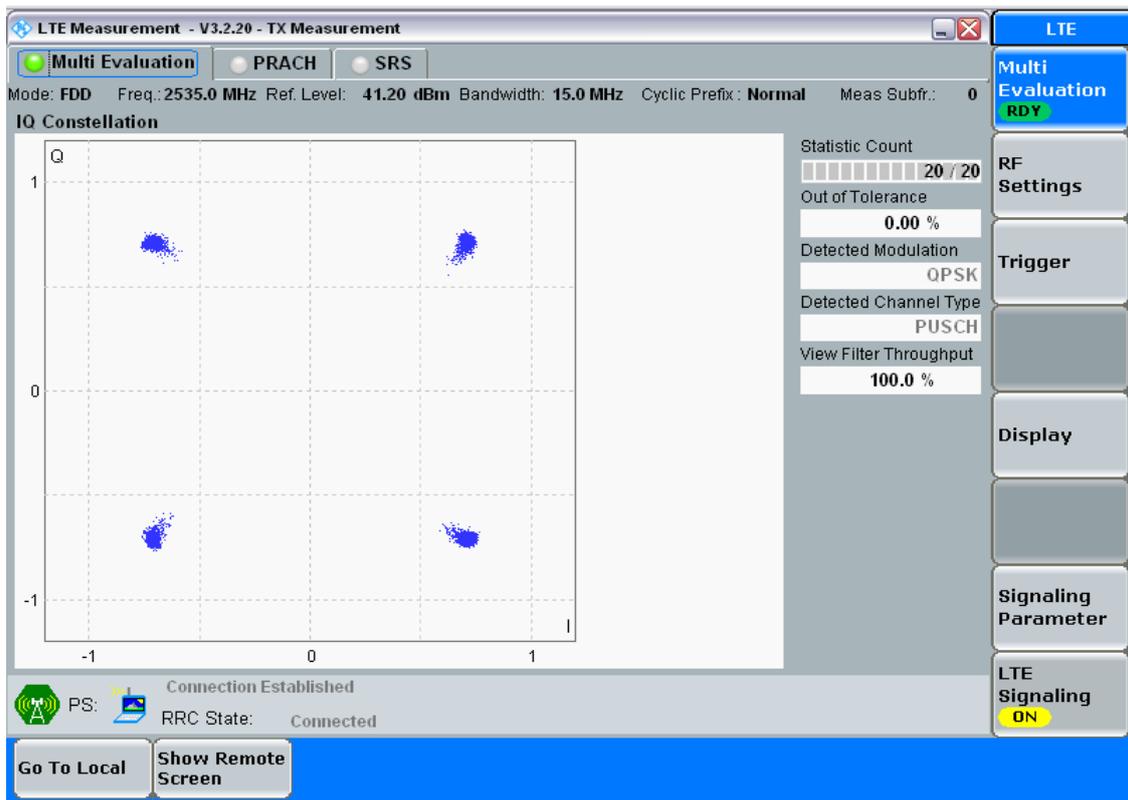
3.3.2.1.2.1.1 Test RB = RB50#0



3.3.2.1.3 Test Bandwidth = 15

3.3.2.1.3.1 Test Channel = MCH

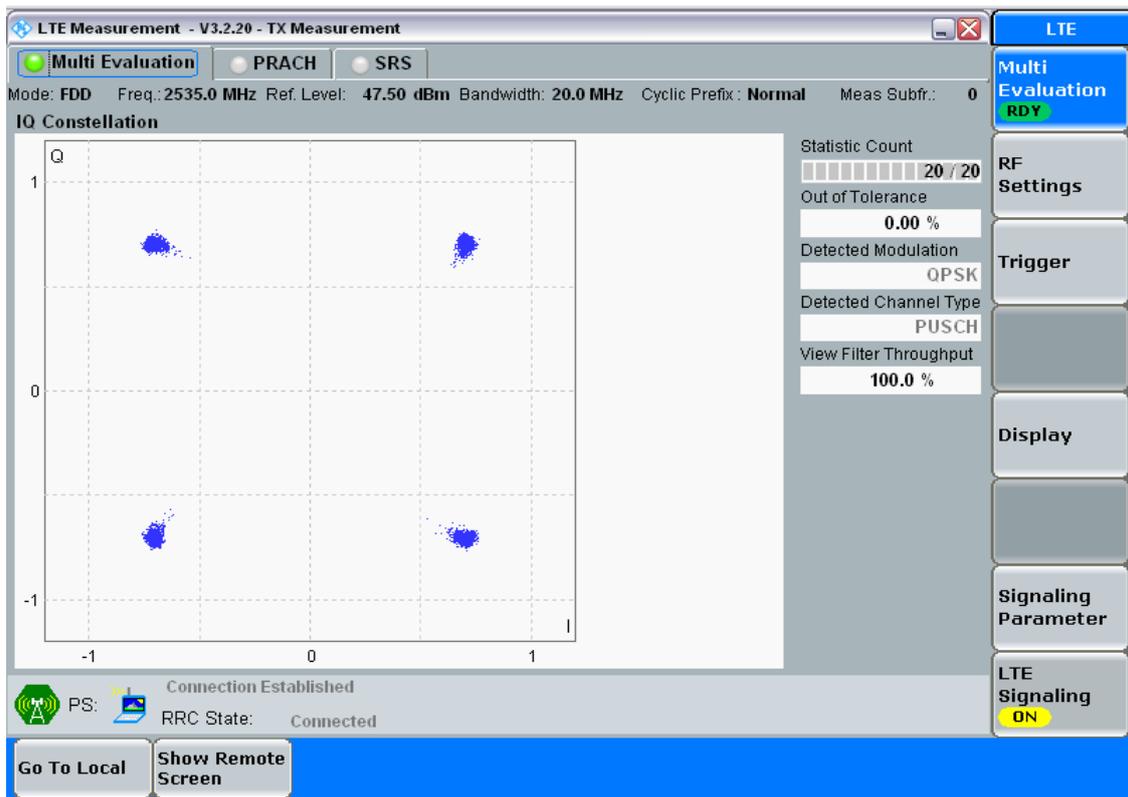
3.3.2.1.3.1.1 Test RB = RB75#0



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

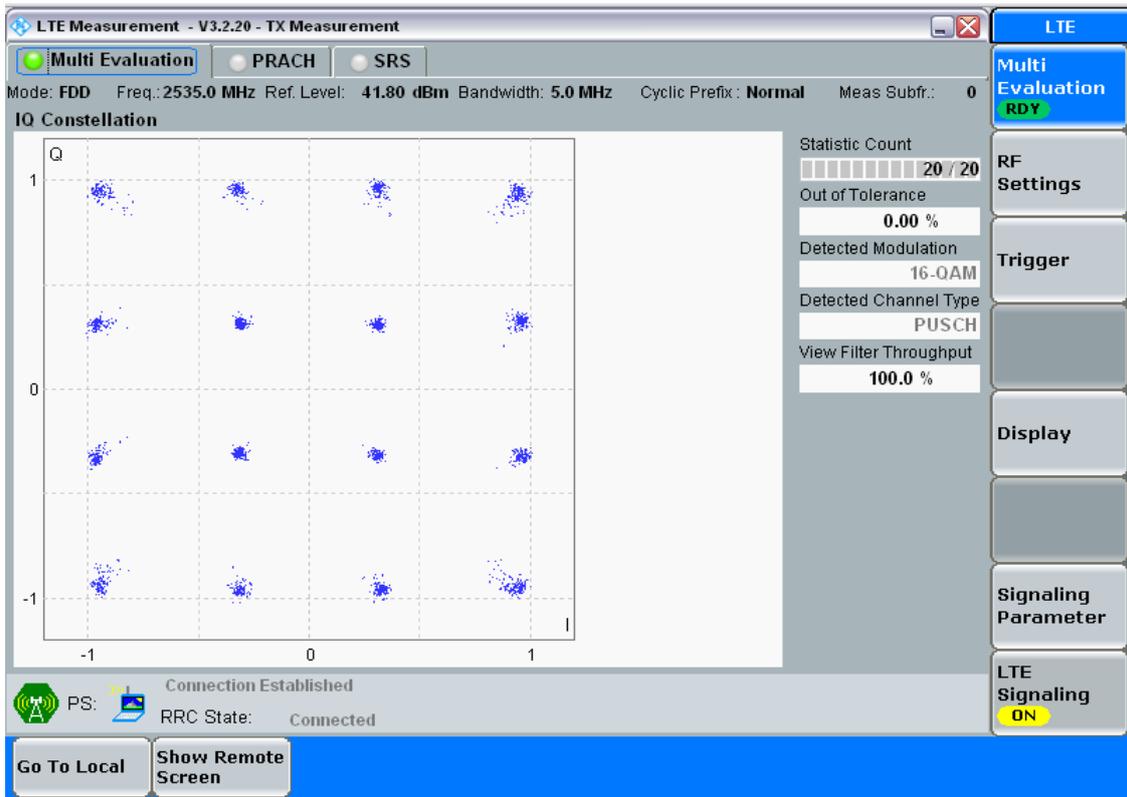


3.3.2.2 Test Mode = LTE/TM2

3.3.2.2.1 Test Bandwidth = 5

3.3.2.2.1.1 Test Channel = MCH

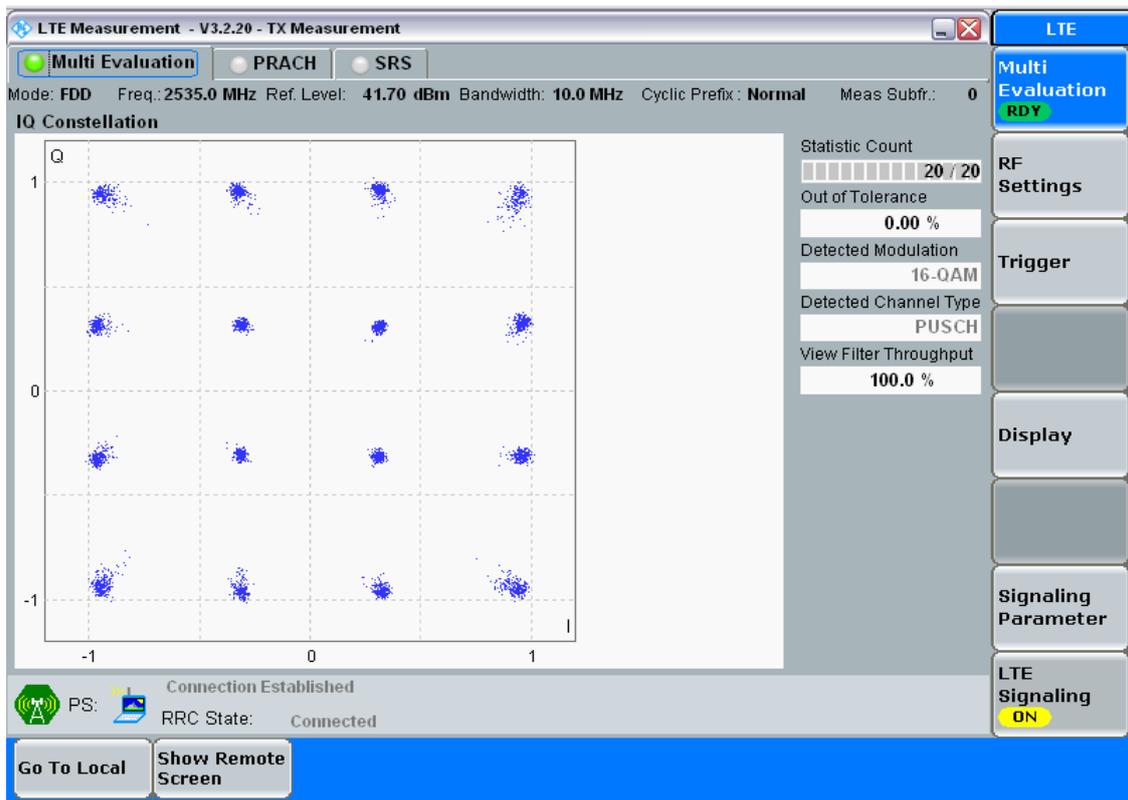
3.3.2.2.1.1.1 Test RB = RB25#0



3.3.2.2.2 Test Bandwidth = 10

3.3.2.2.2.1 Test Channel = MCH

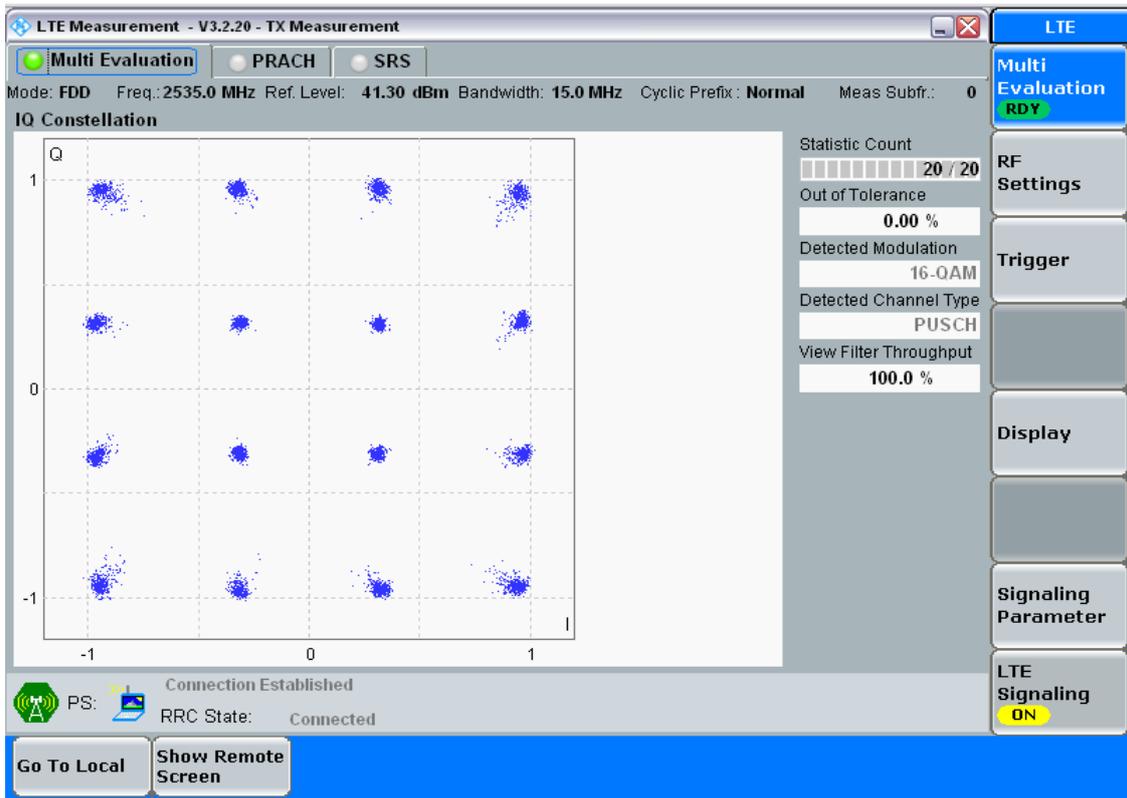
3.3.2.2.2.1.1 Test RB = RB50#0



3.3.2.2.3 Test Bandwidth = 15

3.3.2.2.3.1 Test Channel = MCH

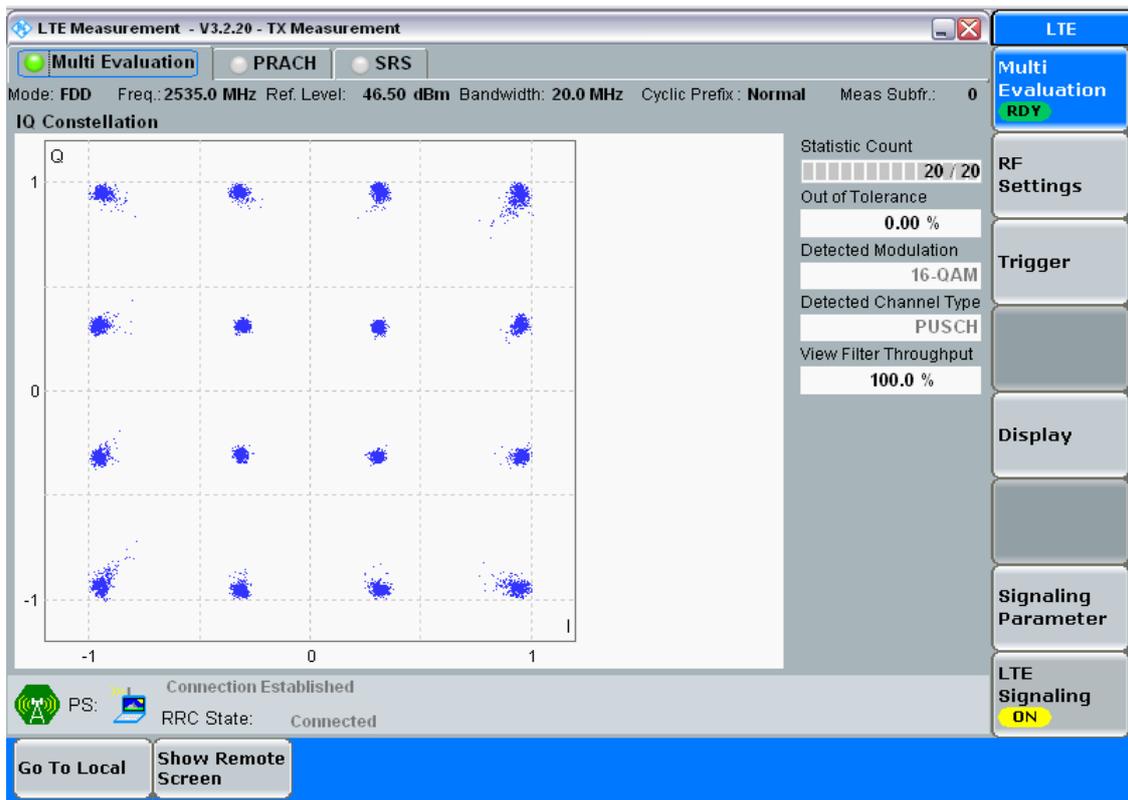
3.3.2.2.3.1.1 Test RB = RB75#0



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

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	241.71	310.79	Pass
		MCH	245.70	320.90	Pass
		HCH	242.33	323.46	Pass
	GSM/TM2	LCH	246.16	307.33	Pass
		MCH	243.86	310.49	Pass
		HCH	239.50	300.21	Pass
GSM1900	GSM/TM1	LCH	239.84	304.93	Pass
		MCH	242.79	312.15	Pass
		HCH	240.15	307.90	Pass
	GSM/TM2	LCH	246.21	316.39	Pass
		MCH	249.19	318.04	Pass
		HCH	247.28	315.82	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.17	4.72	Pass
		MCH	4.17	4.72	Pass
		HCH	4.18	4.74	Pass
WCDMA1900	UMTS/TM1	LCH	4.16	4.73	Pass
		MCH	4.17	4.73	Pass
		HCH	4.17	4.72	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	4.50	4.85	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.50	4.85	Pass
		10	LCH	RB50#0	9.00	9.59	Pass
			MCH	RB50#0	9.01	9.62	Pass
			HCH	RB50#0	8.99	9.62	Pass
	LTE/TM2	5	LCH	RB25#0	4.49	4.85	Pass
			MCH	RB25#0	4.51	4.90	Pass
			HCH	RB25#0	4.50	4.90	Pass
		10	LCH	RB50#0	9.01	9.62	Pass
			MCH	RB50#0	9.00	9.76	Pass
			HCH	RB50#0	9.01	9.65	Pass
BAND7	LTE/TM1	5	LCH	RB25#0	4.50	4.89	Pass
			MCH	RB25#0	4.50	4.89	Pass
			HCH	RB25#0	4.49	4.87	Pass
		10	LCH	RB50#0	9.00	9.64	Pass
			MCH	RB50#0	9.00	9.71	Pass
			HCH	RB50#0	9.00	9.66	Pass
		15	LCH	RB75#0	13.48	14.54	Pass
			MCH	RB75#0	13.49	14.54	Pass
			HCH	RB75#0	13.49	14.56	Pass
		20	LCH	RB100#0	17.96	19.07	Pass
			MCH	RB100#0	17.97	19.16	Pass
			HCH	RB100#0	17.97	19.13	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.51	4.87	Pass
			HCH	RB25#0	4.50	4.89	Pass
		10	LCH	RB50#0	9.01	9.71	Pass
			MCH	RB50#0	9.01	9.68	Pass
			HCH	RB50#0	9.01	9.70	Pass
		15	LCH	RB75#0	13.51	14.54	Pass
			MCH	RB75#0	13.51	14.53	Pass
			HCH	RB75#0	13.51	14.61	Pass
		20	LCH	RB100#0	17.98	19.08	Pass
			MCH	RB100#0	17.97	19.11	Pass
			HCH	RB100#0	17.99	19.05	Pass



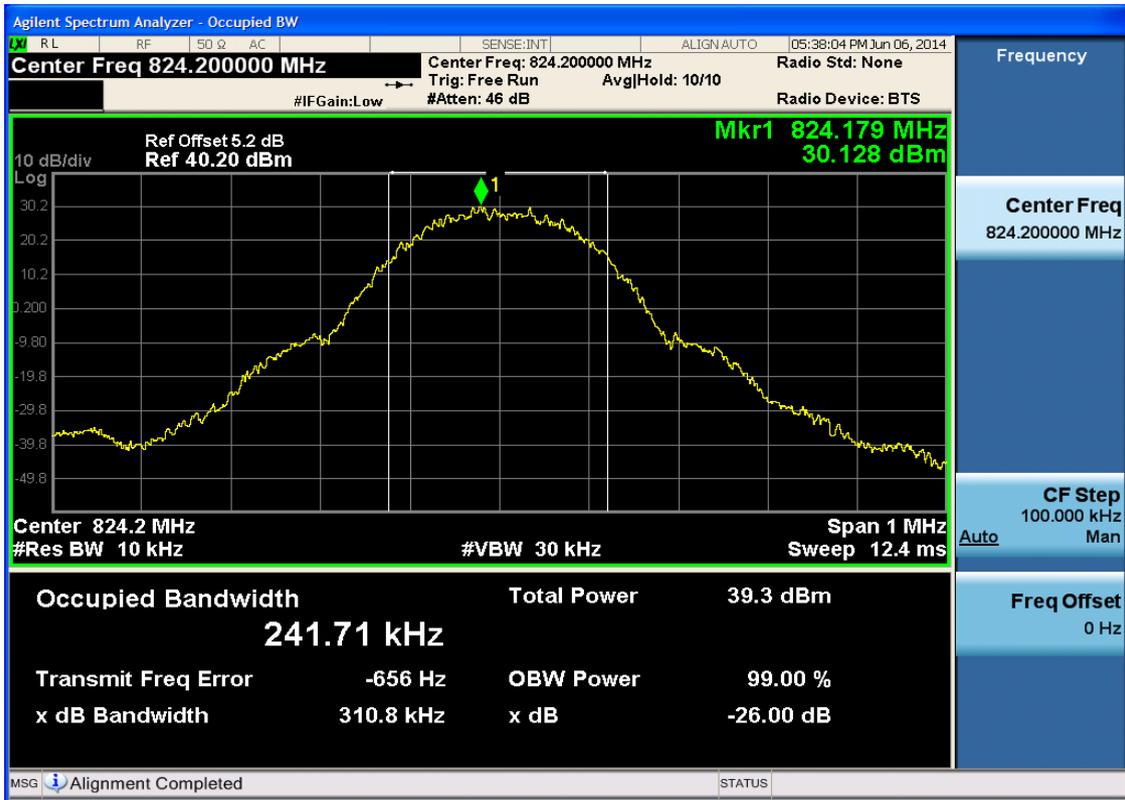
Part II - Test Plots

4.1 For GSM

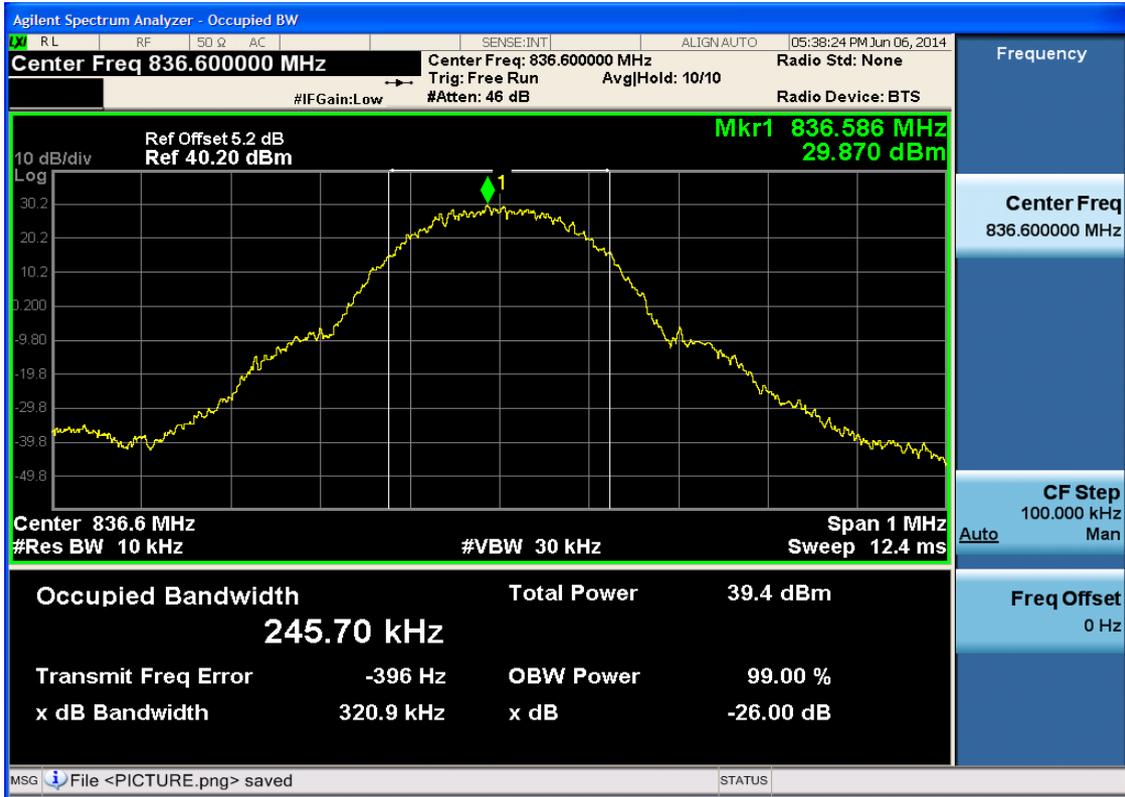
4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH

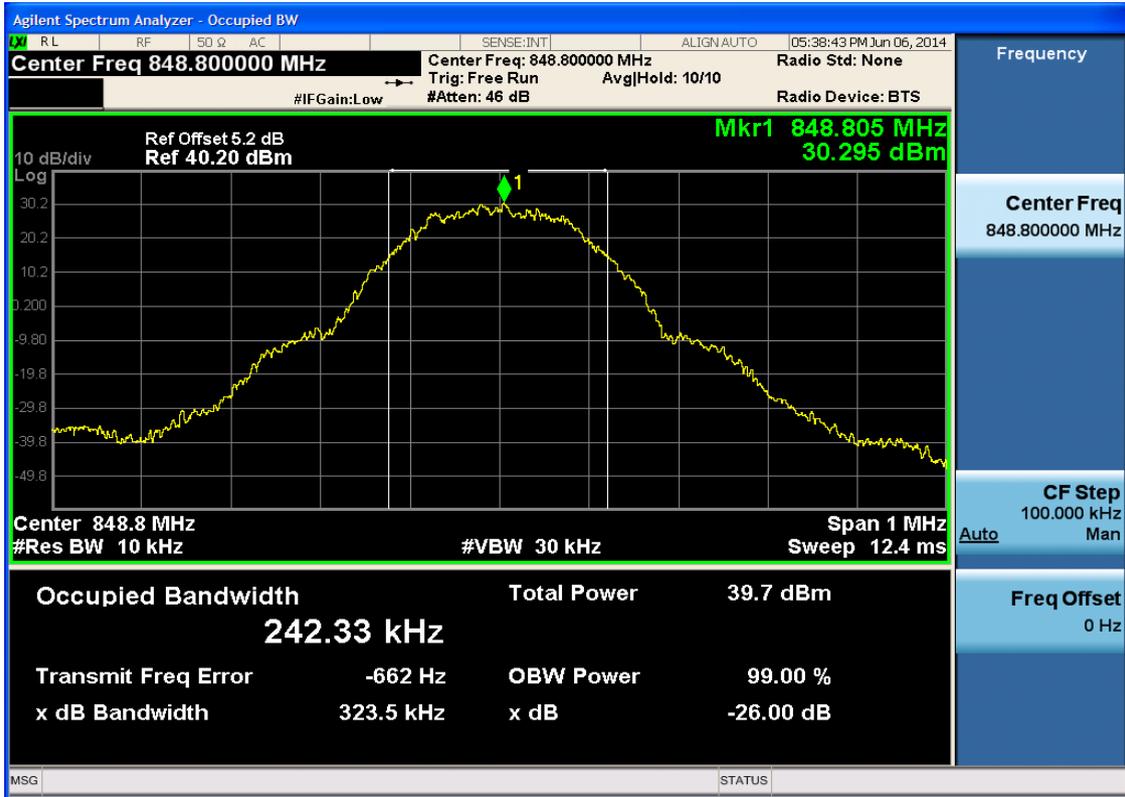


4.1.1.1.2 Test Channel = MCH





4.1.1.1.3 Test Channel = HCH





4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH

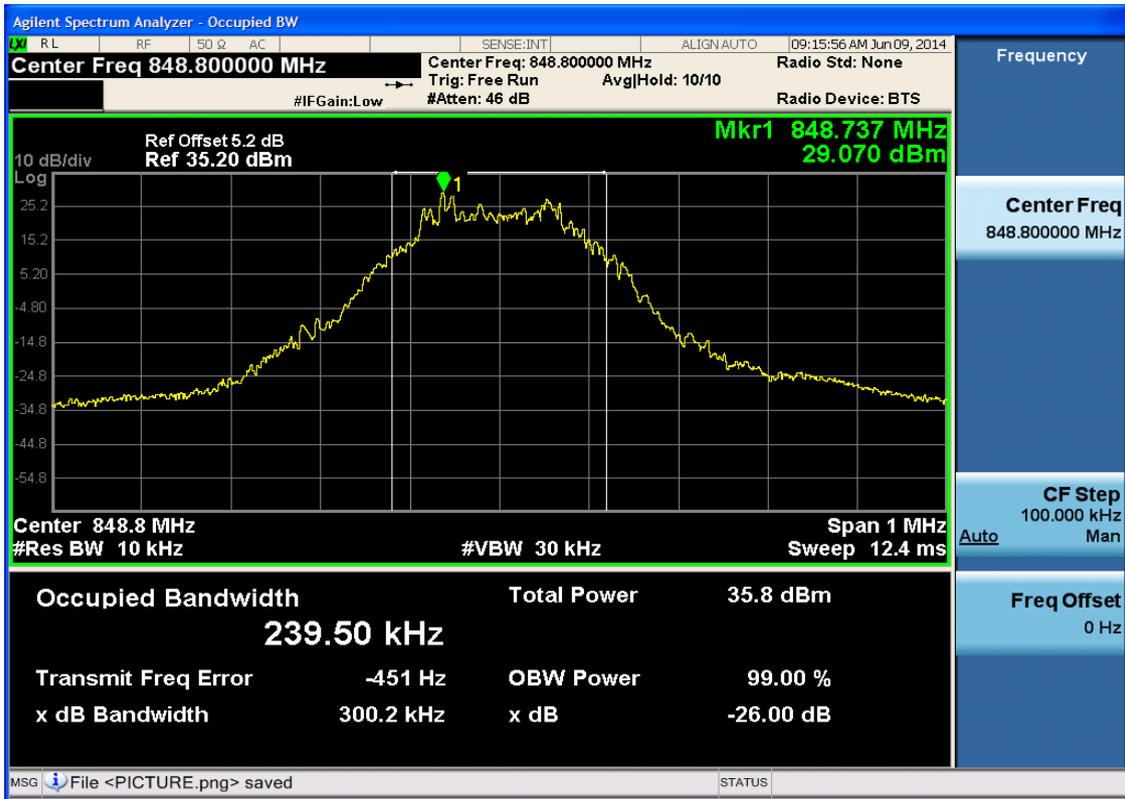


4.1.1.2.2 Test Channel = MCH





4.1.1.2.3 Test Channel = HCH

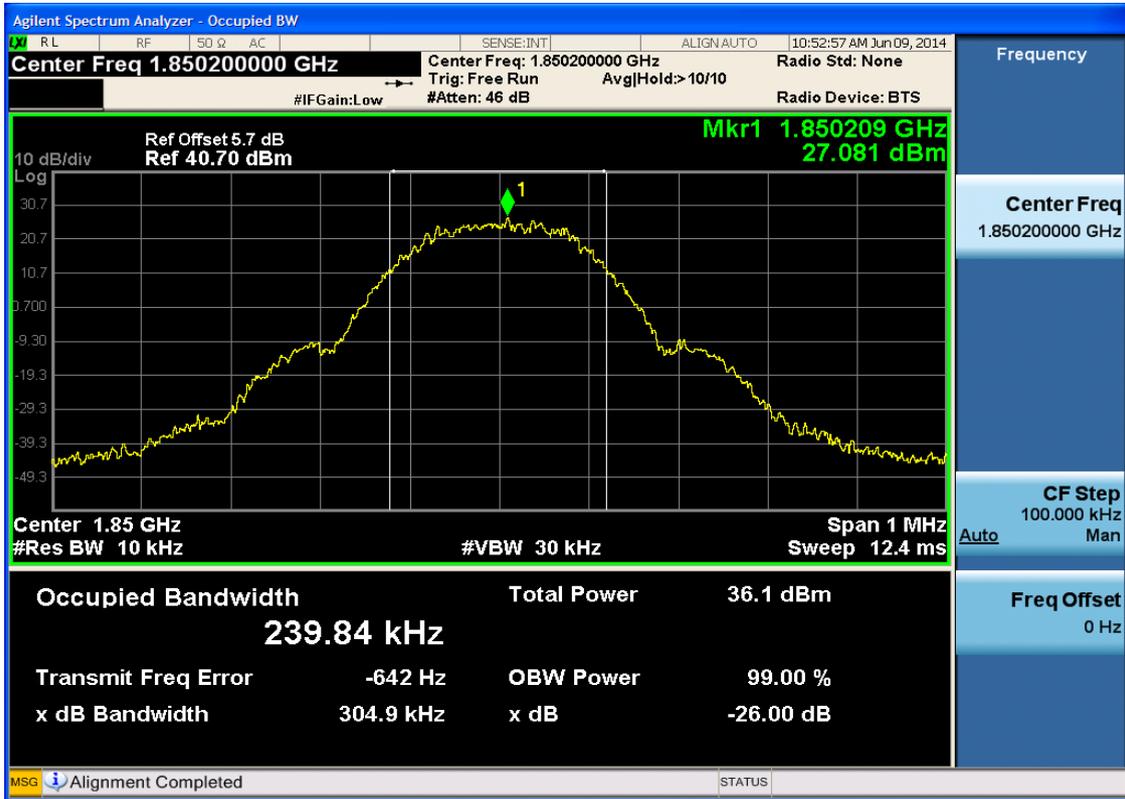




4.1.2 Test Band = GSM1900

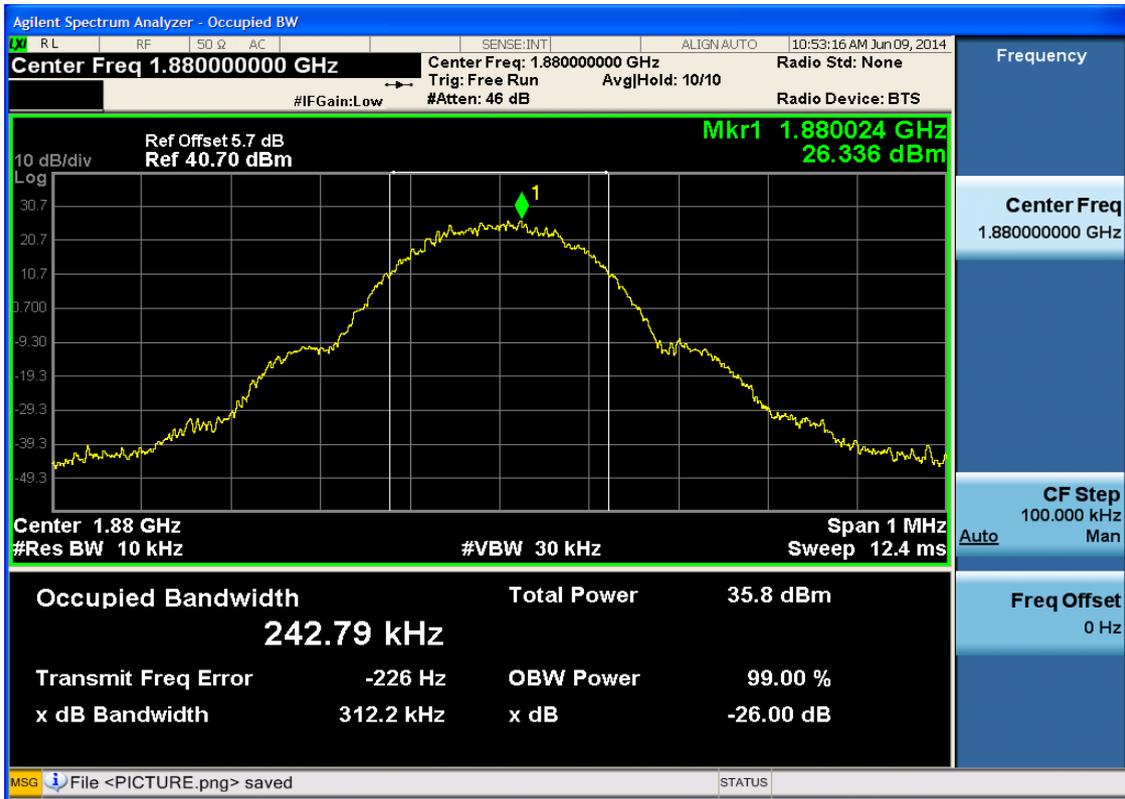
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



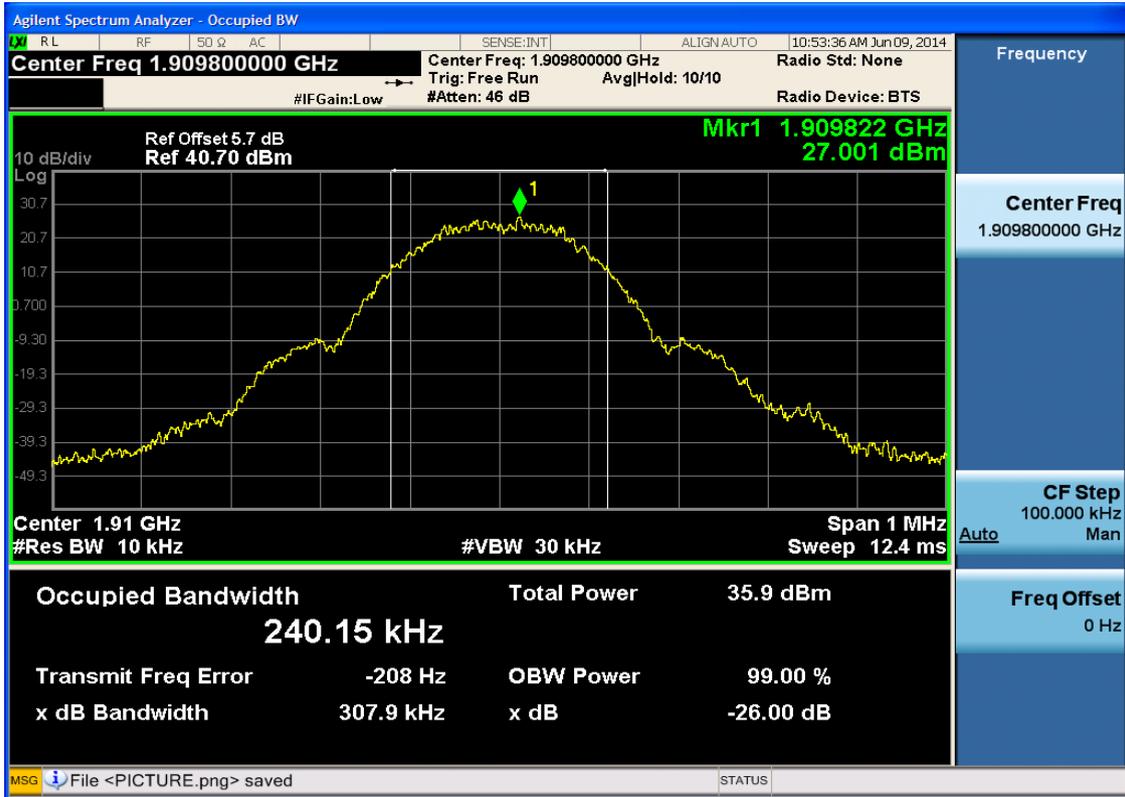


4.1.2.1.2 Test Channel = MCH





4.1.2.1.3 Test Channel = HCH





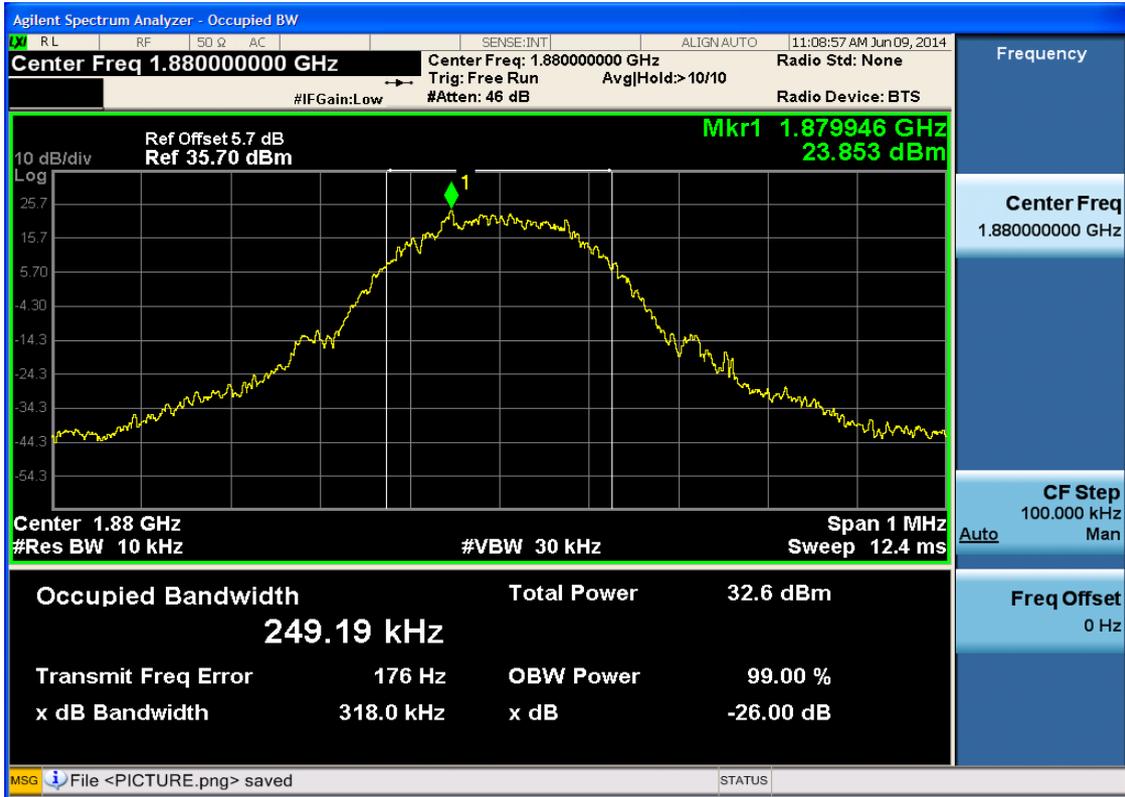
4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



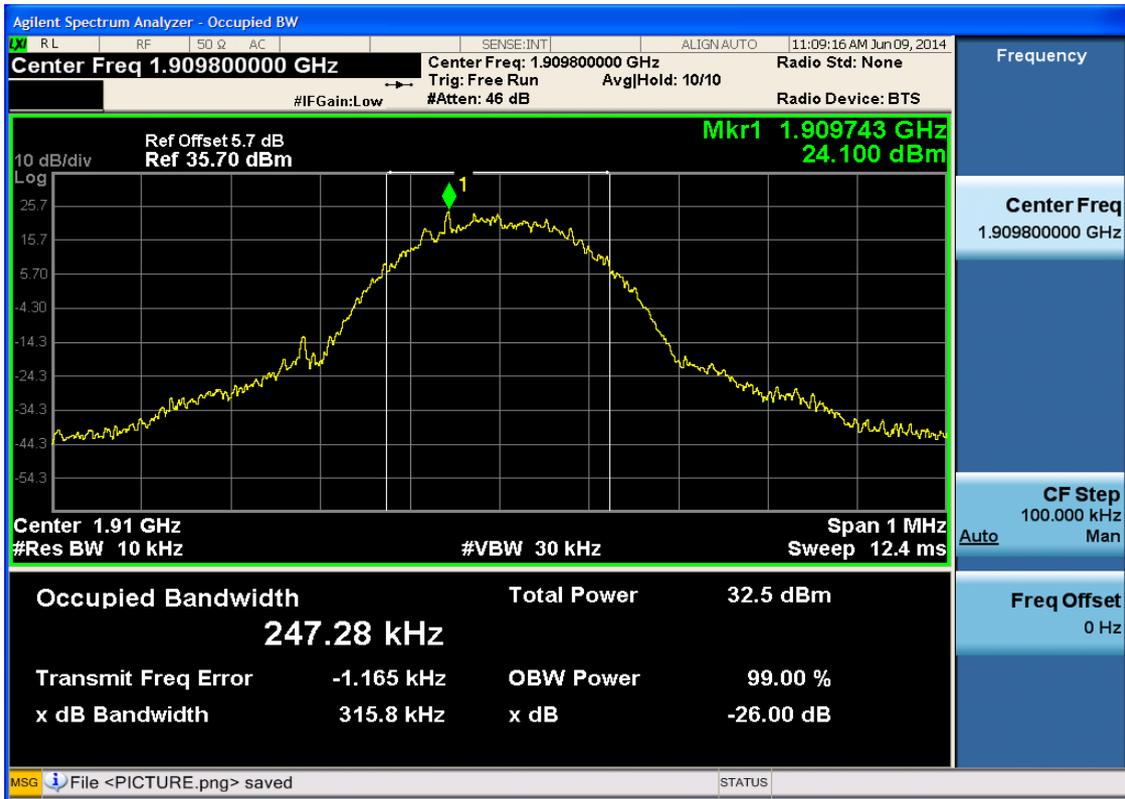


4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH

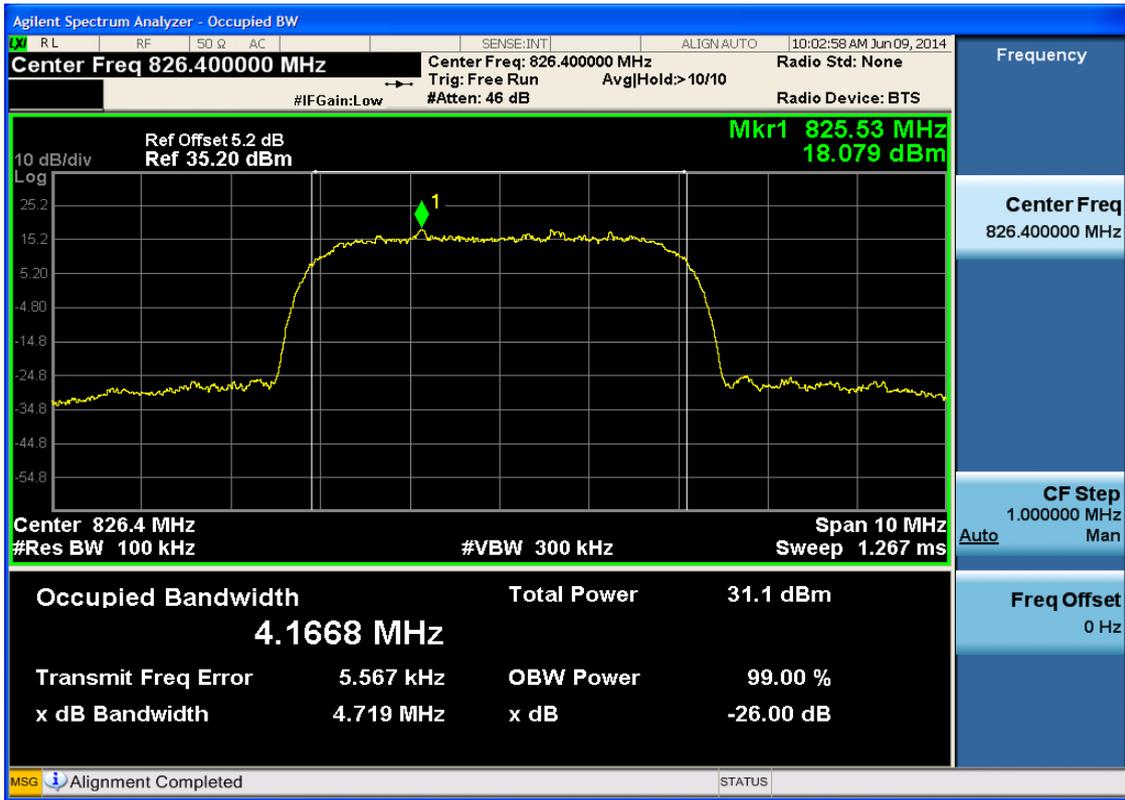


4.2 For UMTS

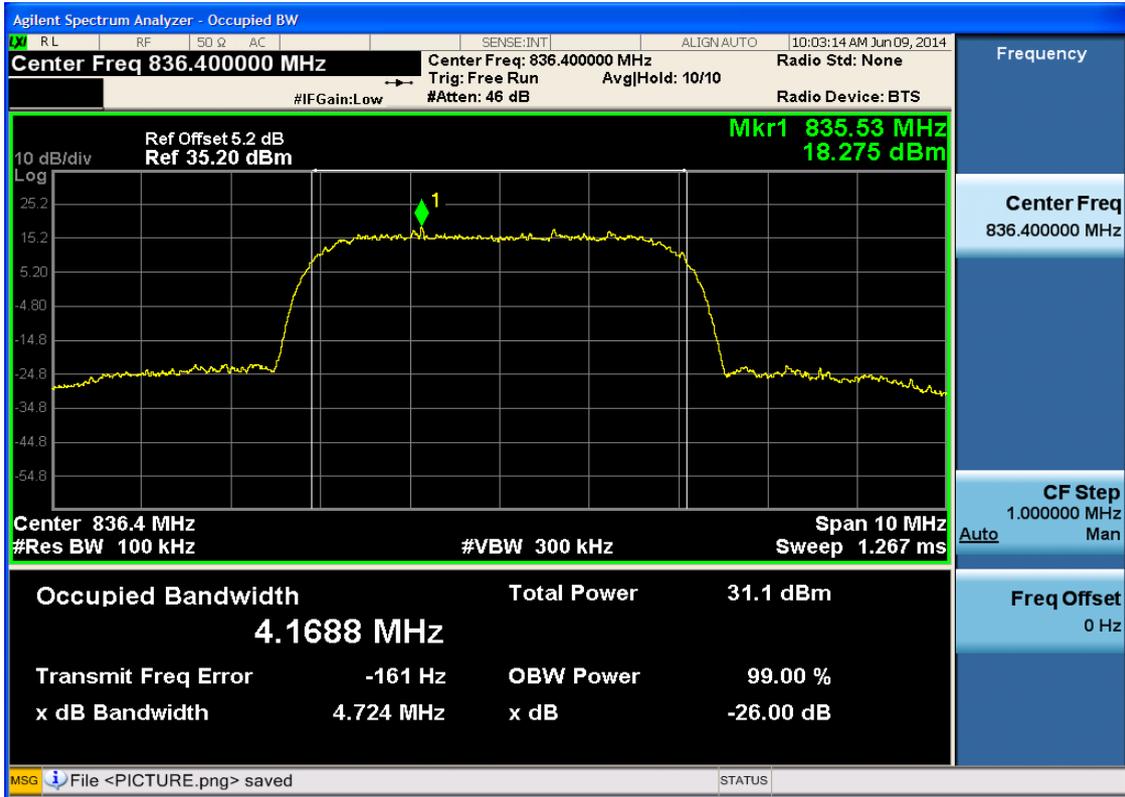
4.2.1 Test Band = WCDMA850

4.2.1.1 Test Mode = UMTS/TM1

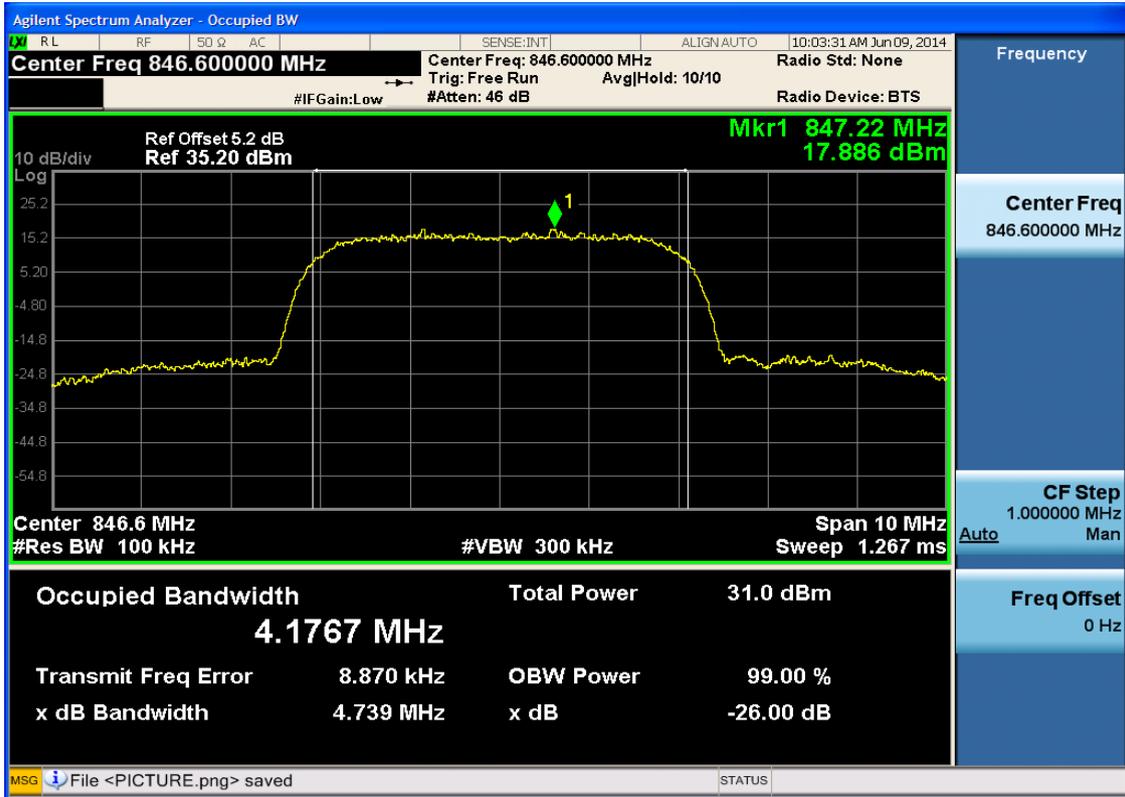
4.2.1.1.1 Test Channel = LCH



4.2.1.1.2 Test Channel = MCH



4.2.1.1.3 Test Channel = HCH

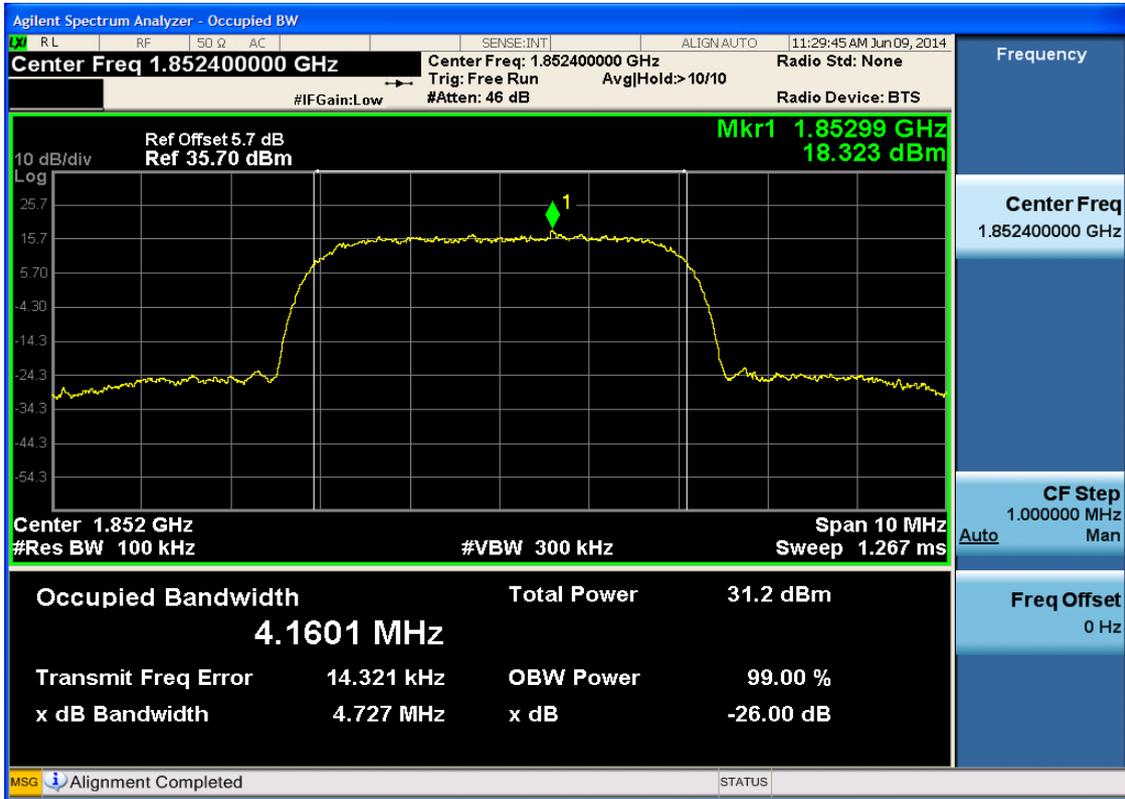




4.2.2 Test Band = WCDMA1900

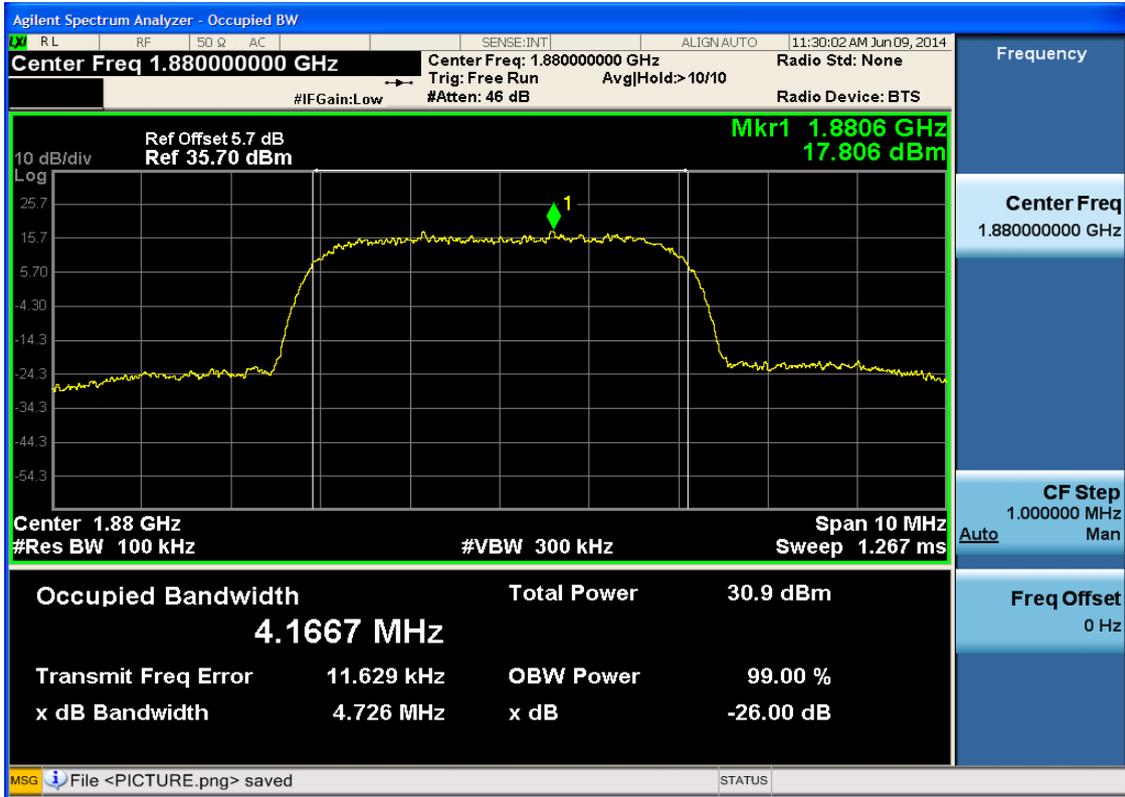
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



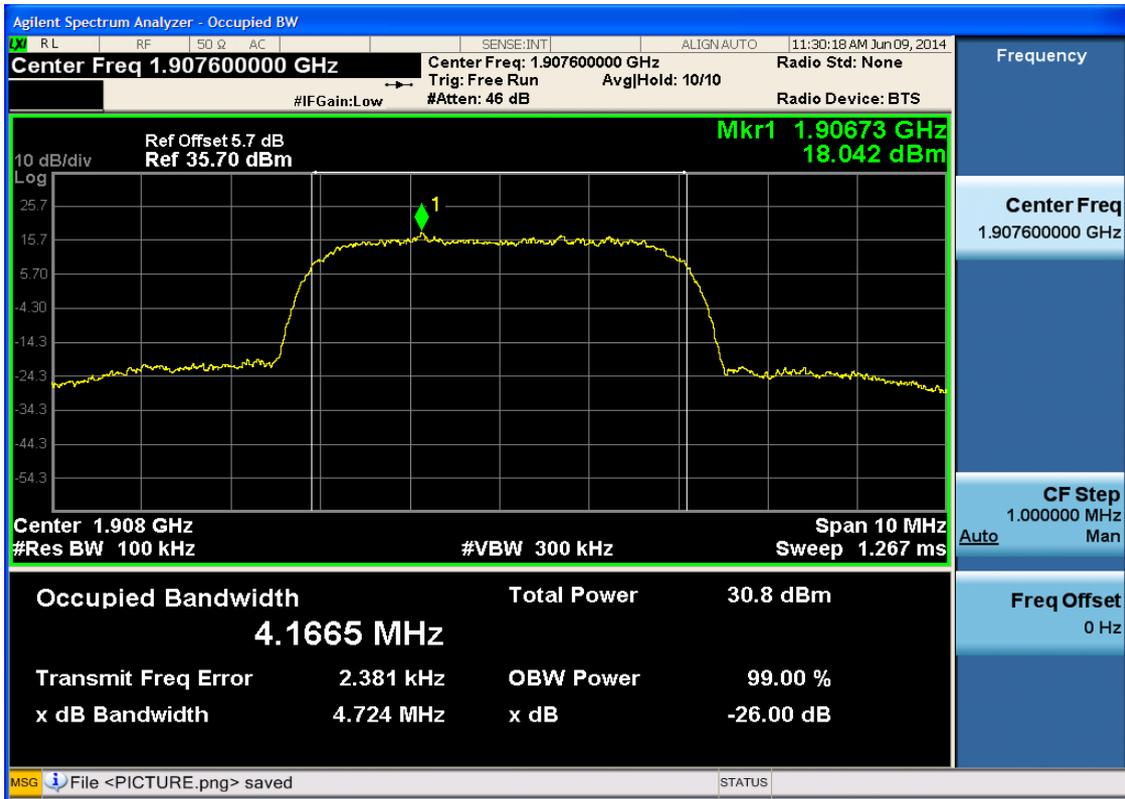


4.2.2.1.2 Test Channel = MCH





4.2.2.1.3 Test Channel = HCH





4.3 For LTE

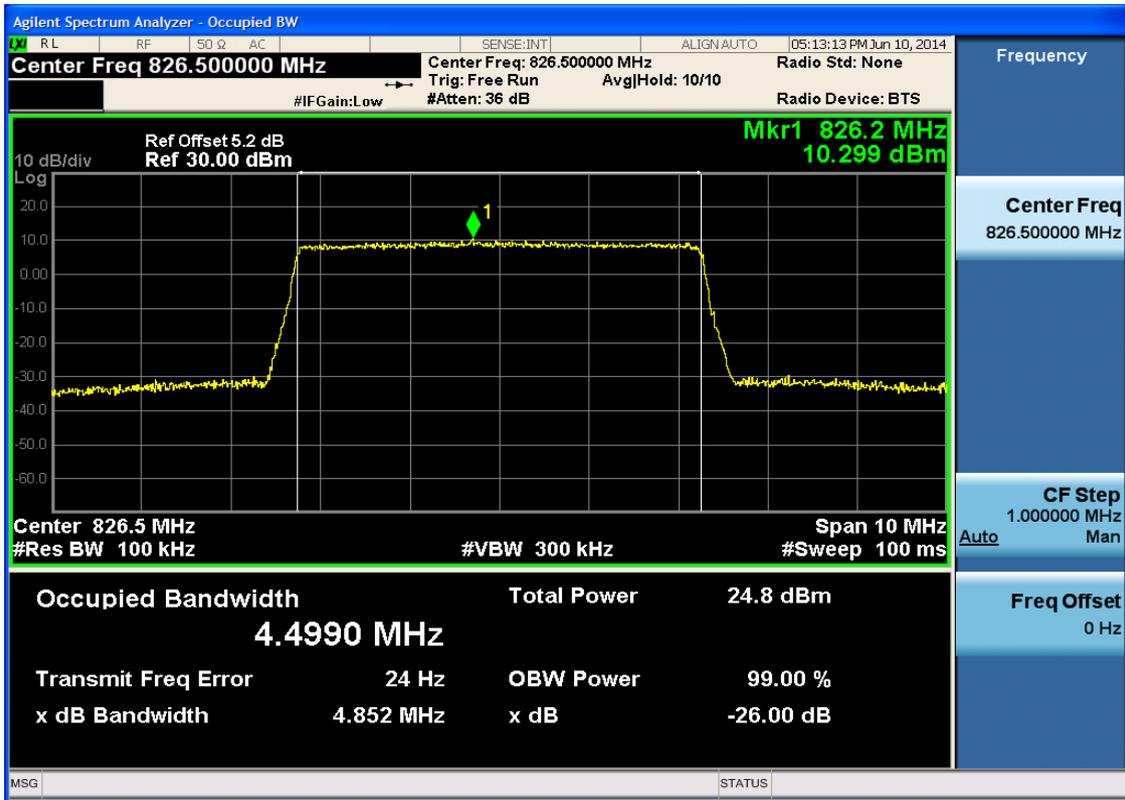
4.3.1 Test Band = BAND5

4.3.1.1 Test Mode = LTE/TM1

4.3.1.1.1 Test Bandwidth = 5

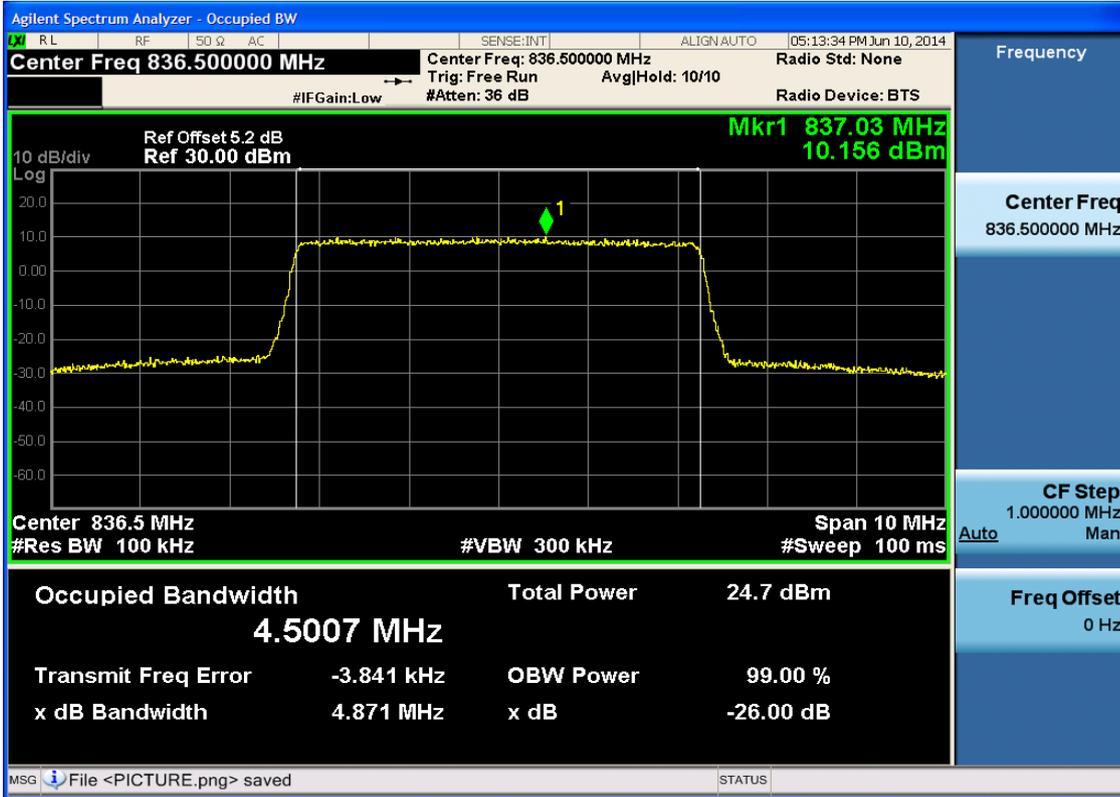
4.3.1.1.1.1 Test Channel = LCH

4.3.1.1.1.1.1 Test RB = RB25#0



4.3.1.1.1.2 Test Channel = MCH

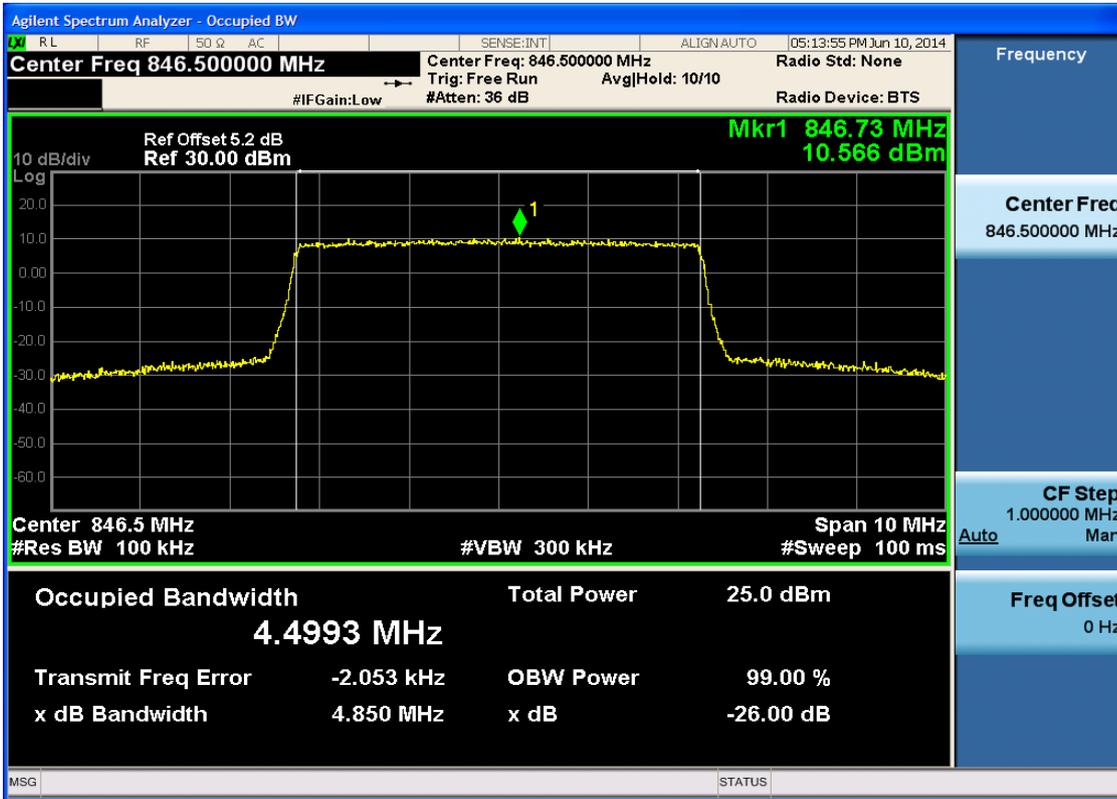
4.3.1.1.1.2.1 Test RB = RB25#0





4.3.1.1.1.3 Test Channel = HCH

4.3.1.1.1.3.1 Test RB = RB25#0

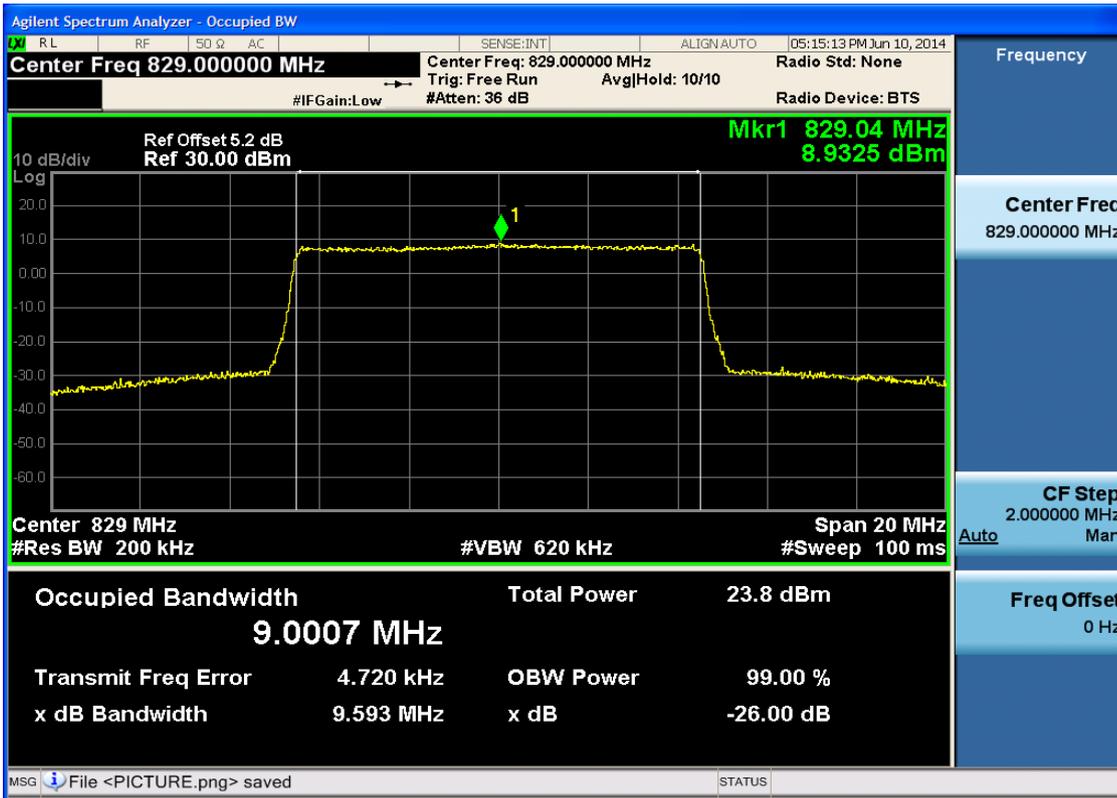




4.3.1.1.2 Test Bandwidth = 10

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

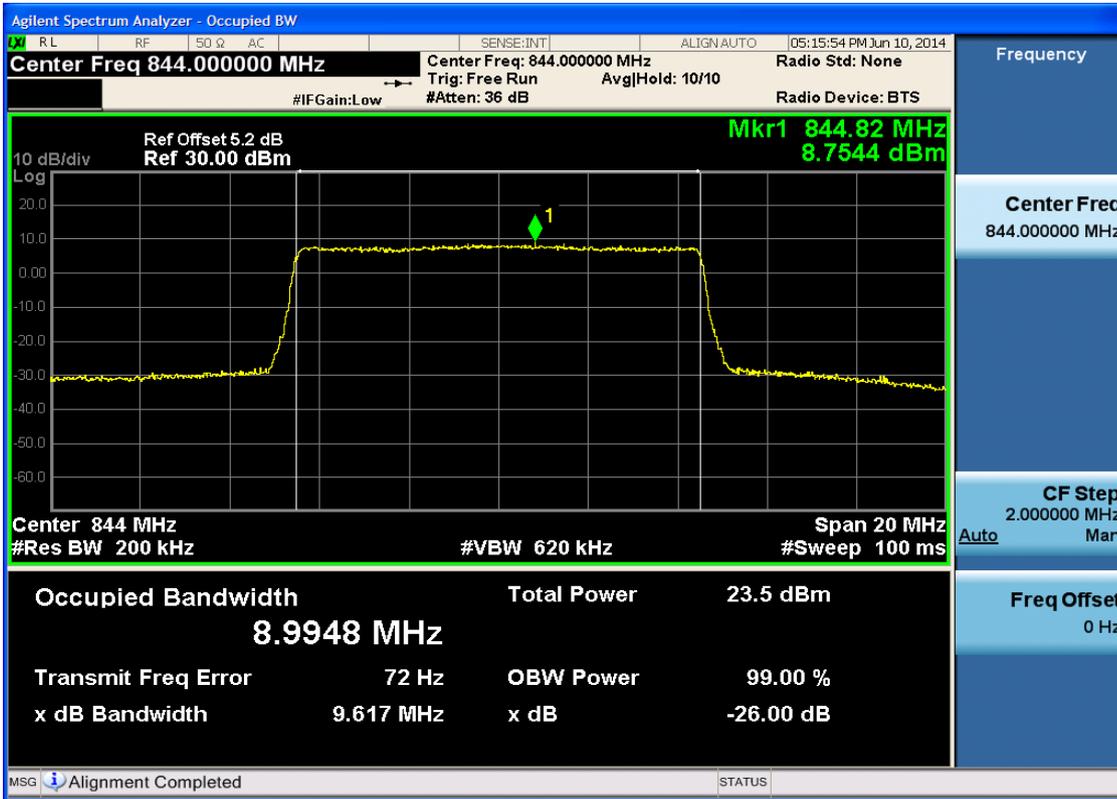
4.3.1.1.2.2.1 Test RB = RB50#0





4.3.1.1.2.3 Test Channel = HCH

4.3.1.1.2.3.1 Test RB = RB50#0



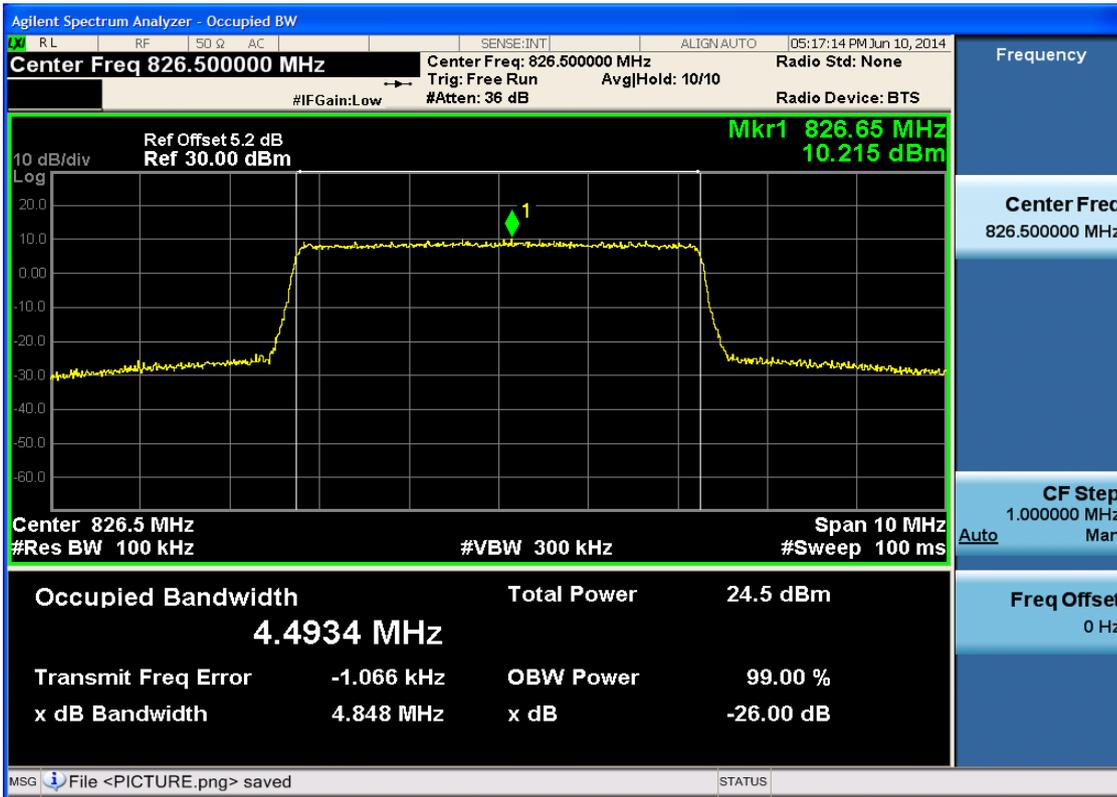


4.3.1.2 Test Mode = LTE/TM2

4.3.1.2.1 Test Bandwidth = 5

4.3.1.2.1.1 Test Channel = LCH

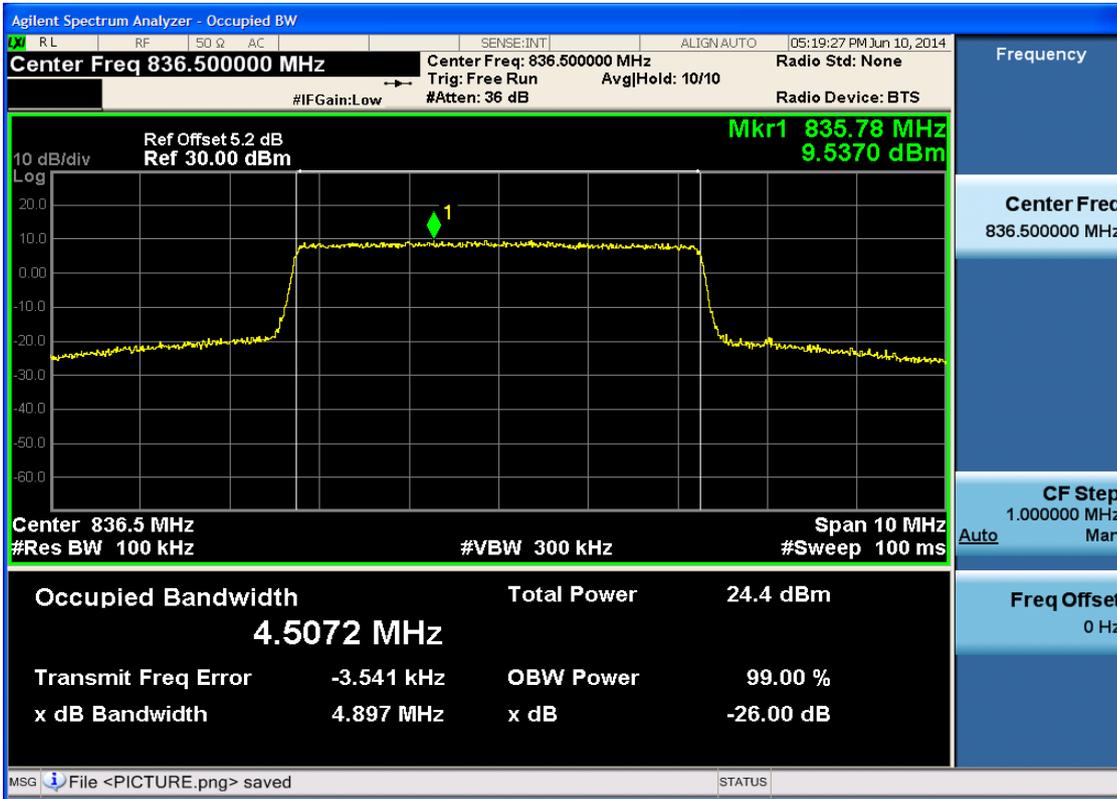
4.3.1.2.1.1.1 Test RB = RB25#0





4.3.1.2.1.2 Test Channel = MCH

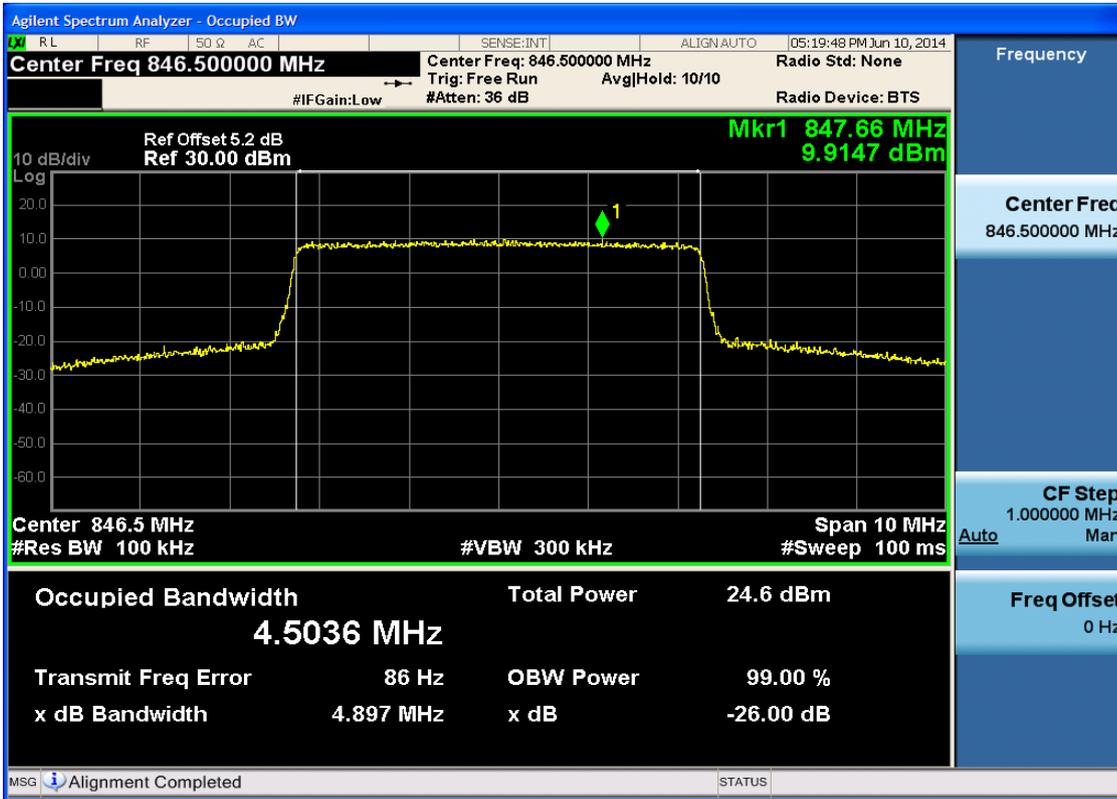
4.3.1.2.1.2.1 Test RB = RB25#0





4.3.1.2.1.3 Test Channel = HCH

4.3.1.2.1.3.1 Test RB = RB25#0

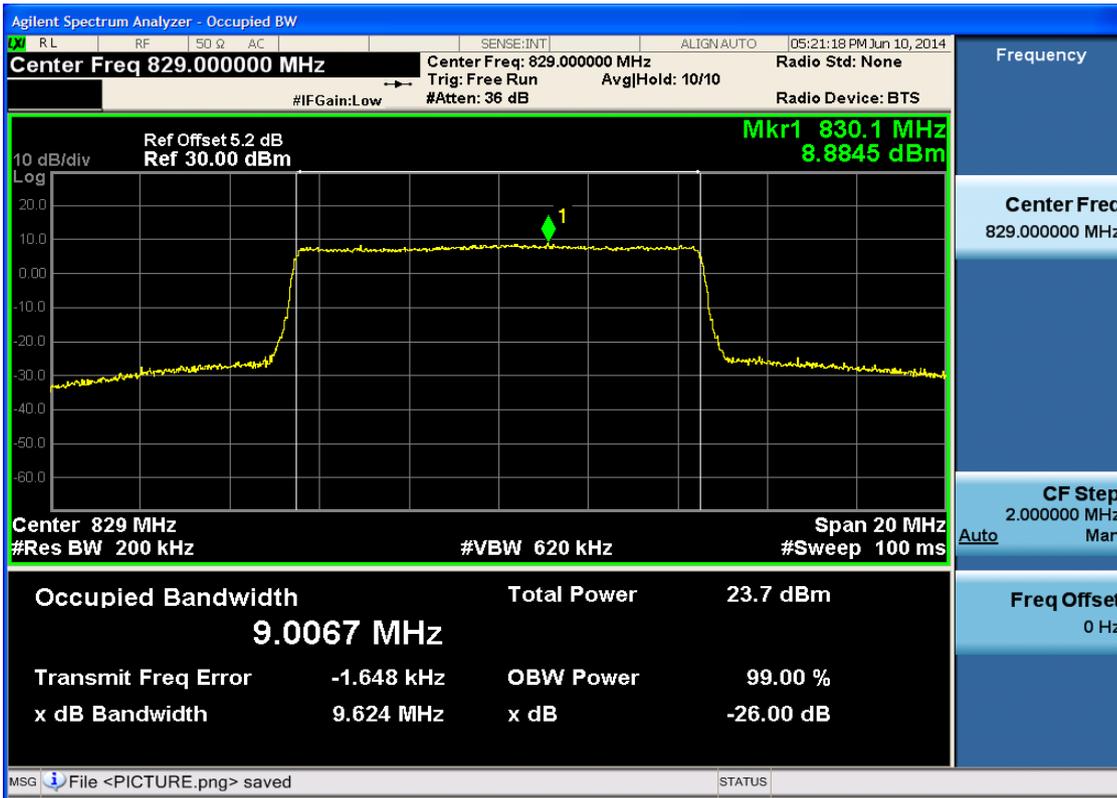




4.3.1.2.2 Test Bandwidth = 10

4.3.1.2.2.1 Test Channel = LCH

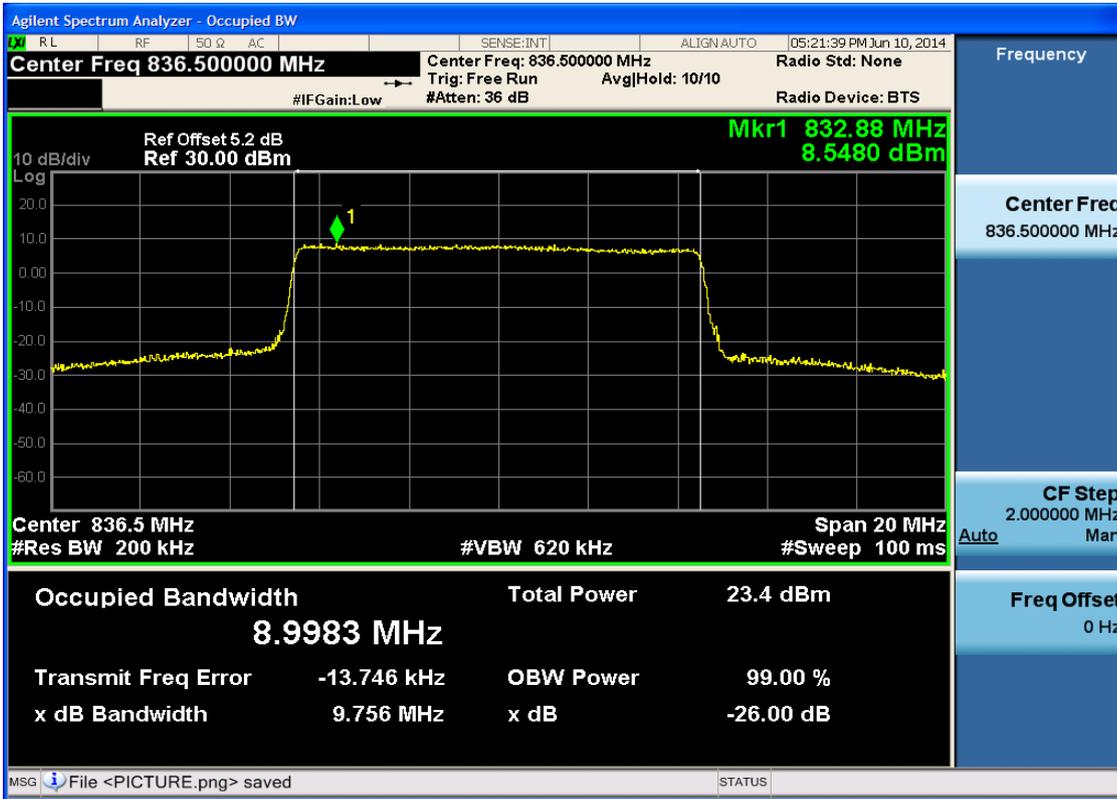
4.3.1.2.2.1.1 Test RB = RB50#0





4.3.1.2.2.2 Test Channel = MCH

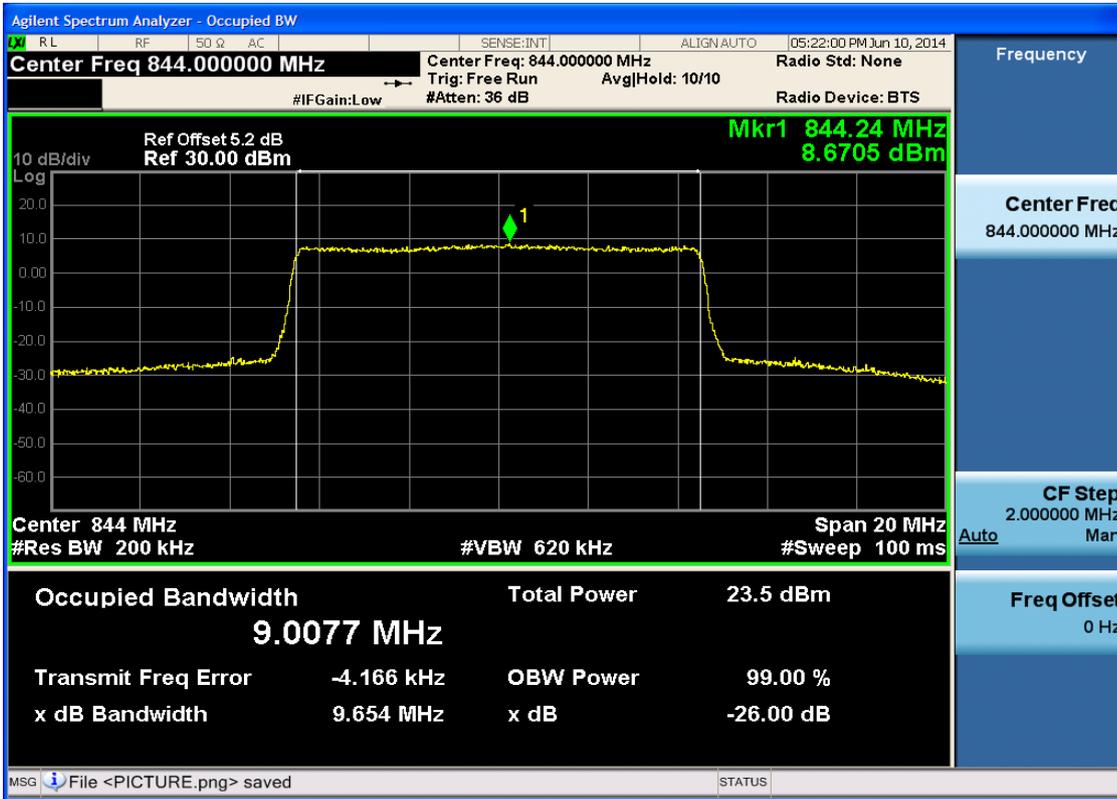
4.3.1.2.2.2.1 Test RB = RB50#0





4.3.1.2.2.3 Test Channel = HCH

4.3.1.2.2.3.1 Test RB = RB50#0





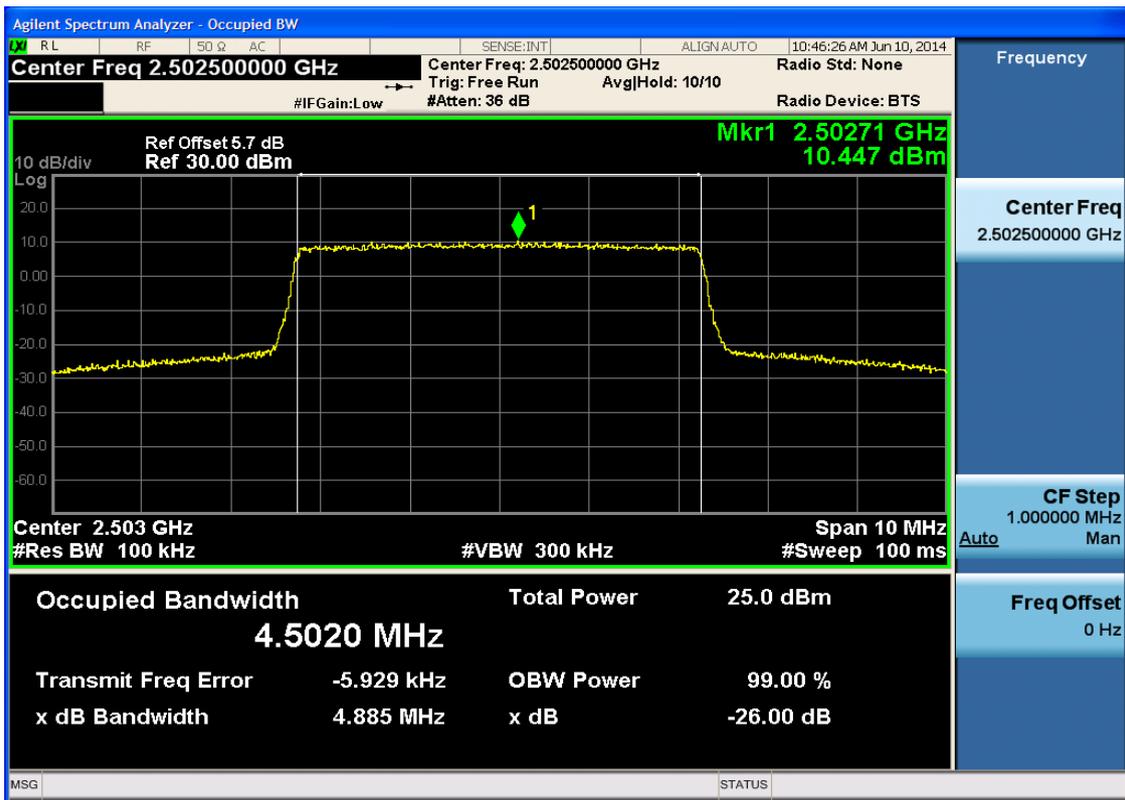
4.3.2 Test Band = BAND7

4.3.2.1 Test Mode = LTE/TM1

4.3.2.1.1 Test Bandwidth = 5

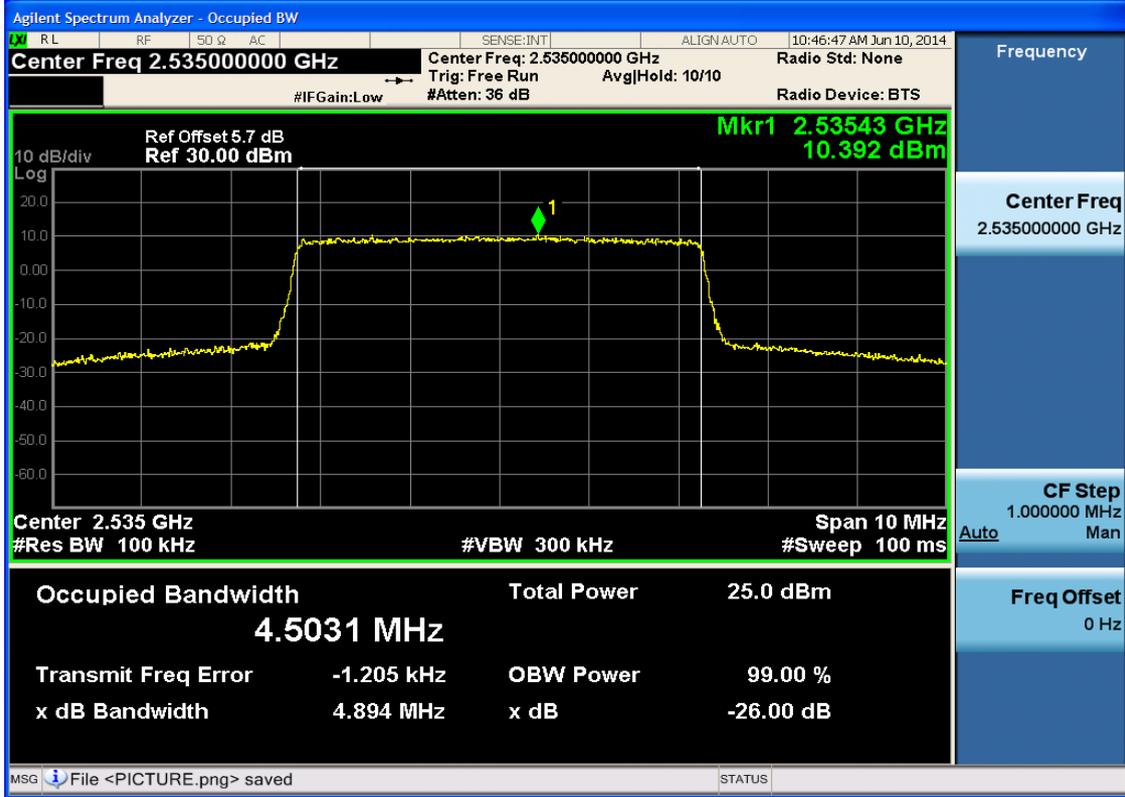
4.3.2.1.1.1 Test Channel = LCH

4.3.2.1.1.1.1 Test RB = RB25#0



4.3.2.1.1.2 Test Channel = MCH

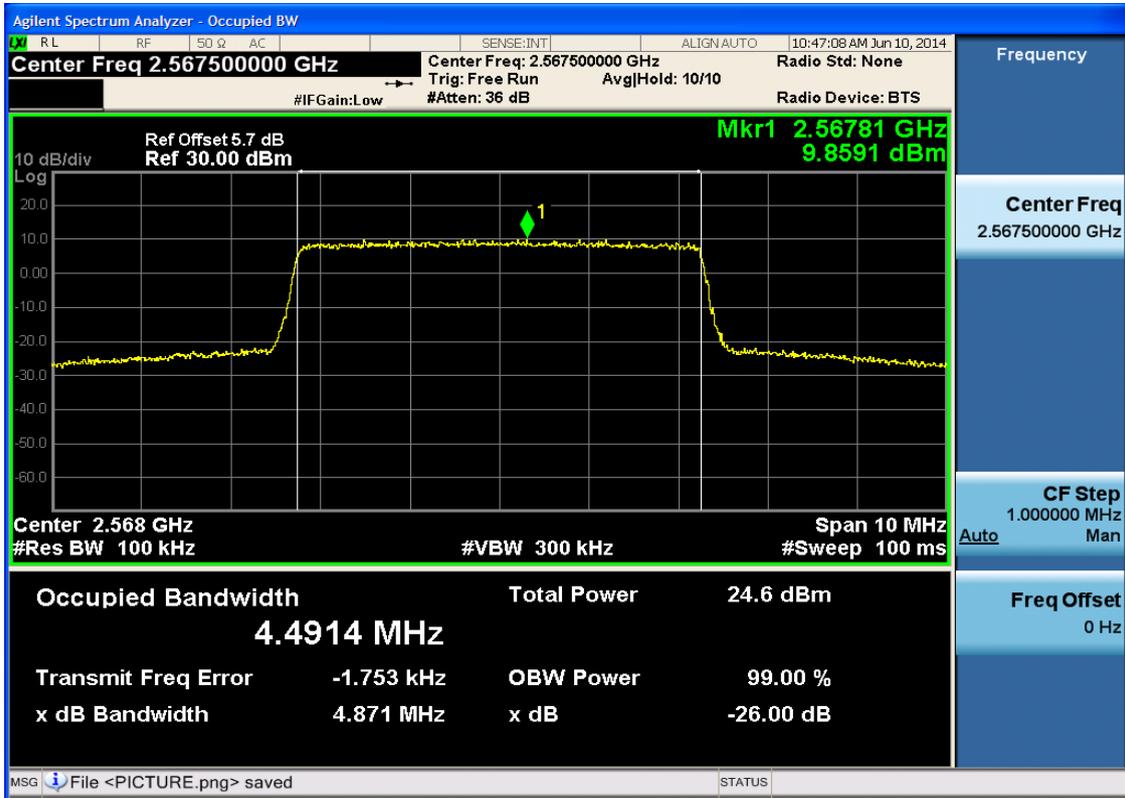
4.3.2.1.1.2.1 Test RB = RB25#0





4.3.2.1.1.3 Test Channel = HCH

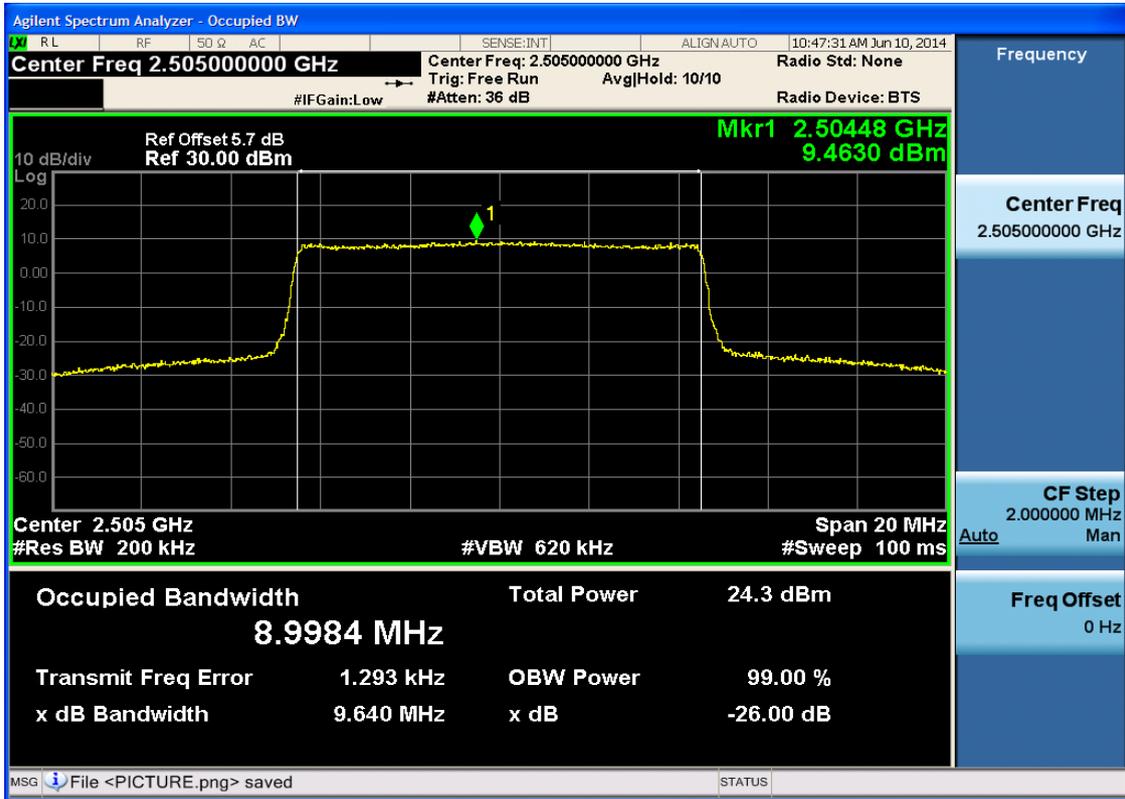
4.3.2.1.1.3.1 Test RB = RB25#0



4.3.2.1.2 Test Bandwidth = 10

4.3.2.1.2.1 Test Channel = LCH

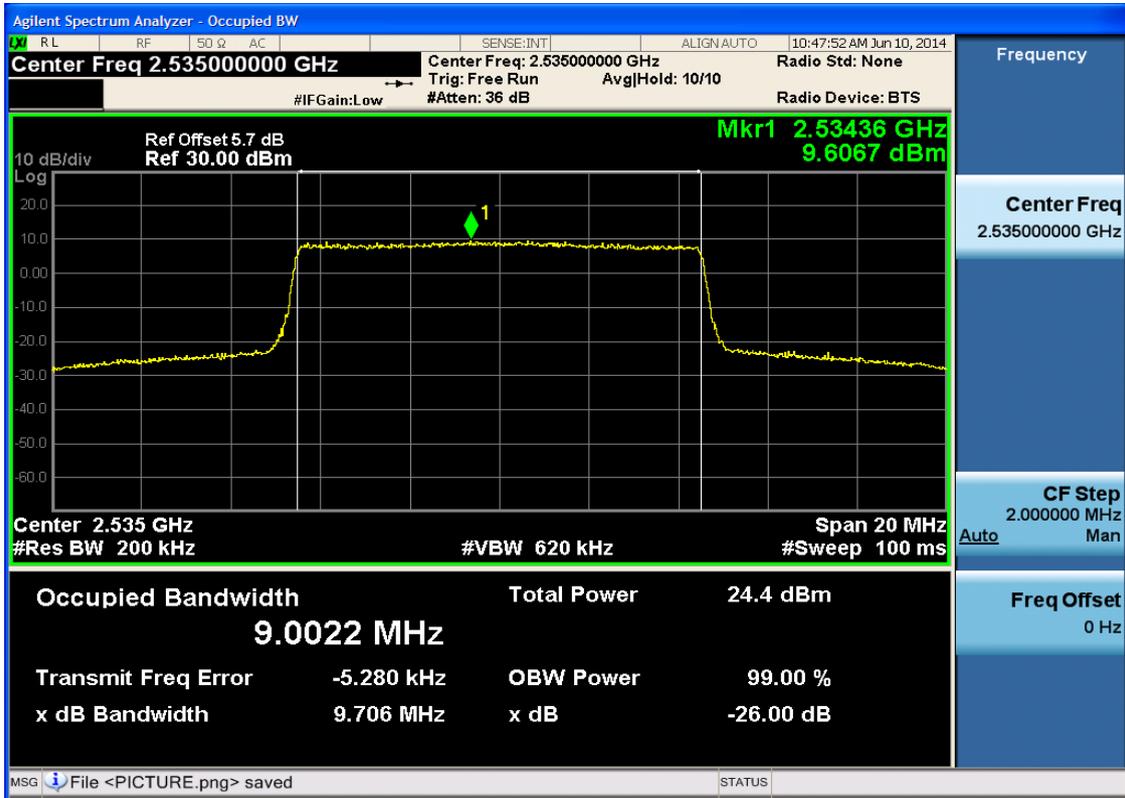
4.3.2.1.2.1.1 Test RB = RB50#0





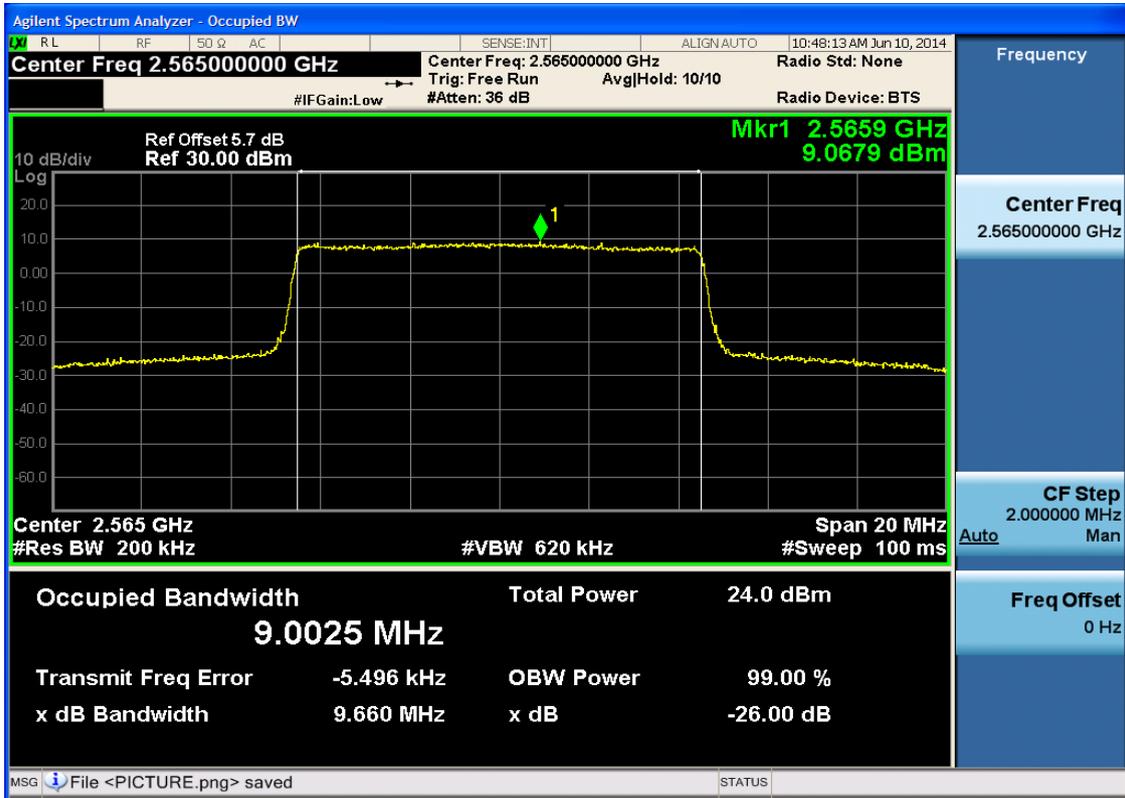
4.3.2.1.2.2 Test Channel = MCH

4.3.2.1.2.2.1 Test RB = RB50#0



4.3.2.1.2.3 Test Channel = HCH

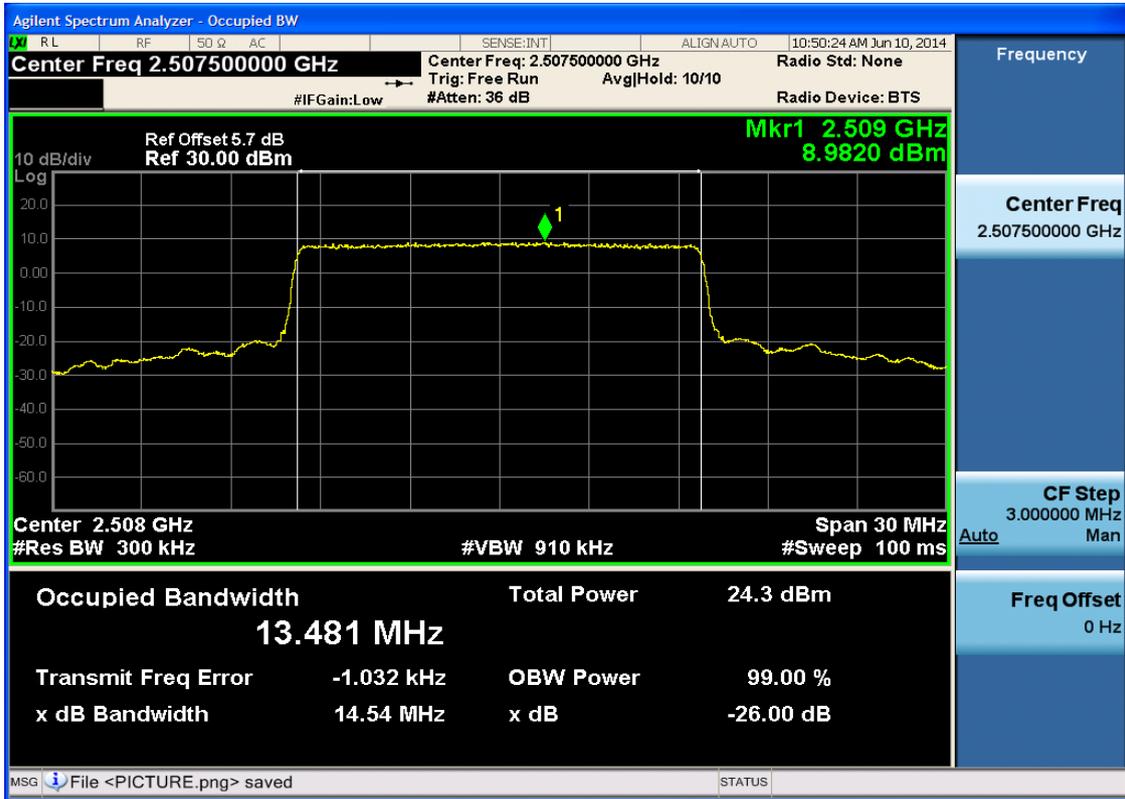
4.3.2.1.2.3.1 Test RB = RB50#0



4.3.2.1.3 Test Bandwidth = 15

4.3.2.1.3.1 Test Channel = LCH

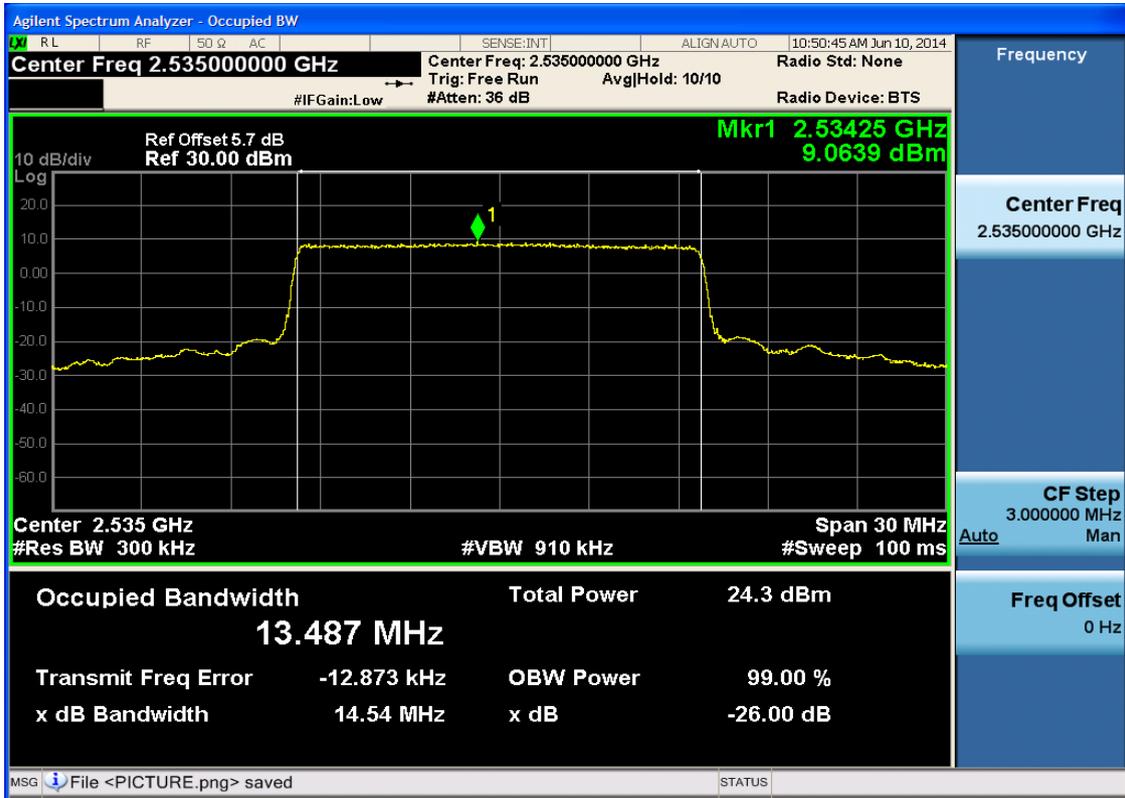
4.3.2.1.3.1.1 Test RB = RB75#0





4.3.2.1.3.2 Test Channel = MCH

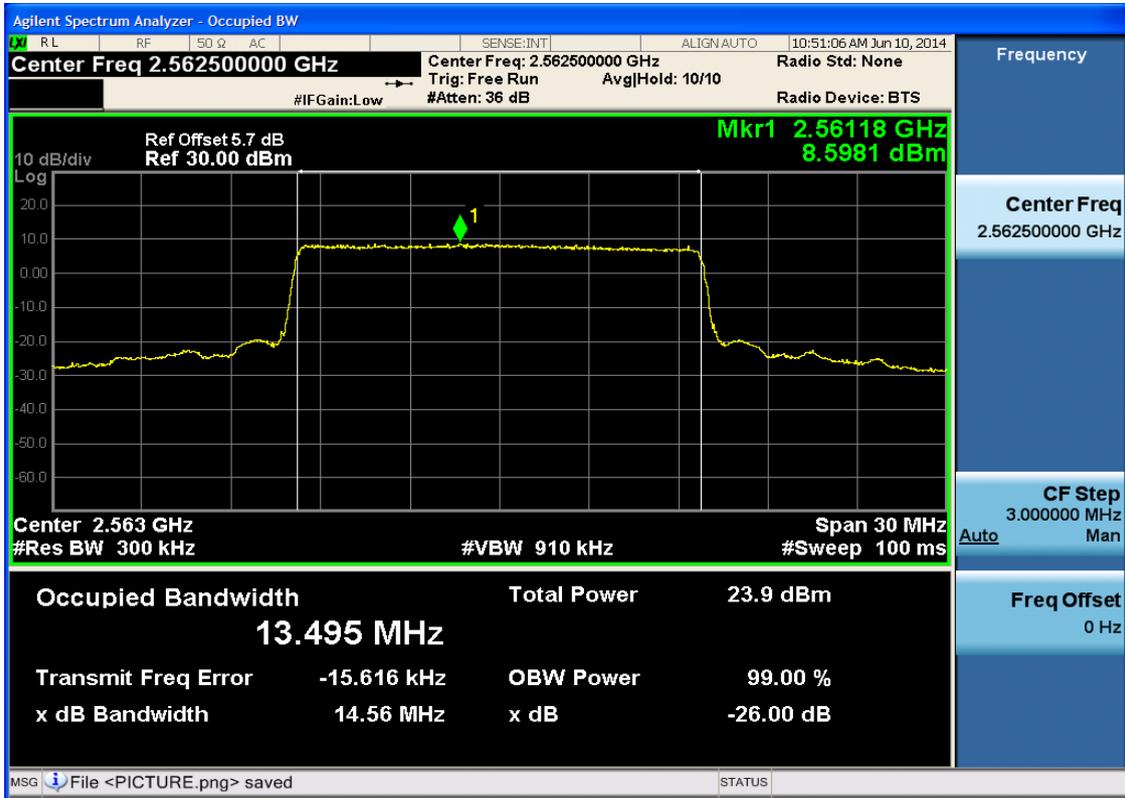
4.3.2.1.3.2.1 Test RB = RB75#0





4.3.2.1.3.3 Test Channel = HCH

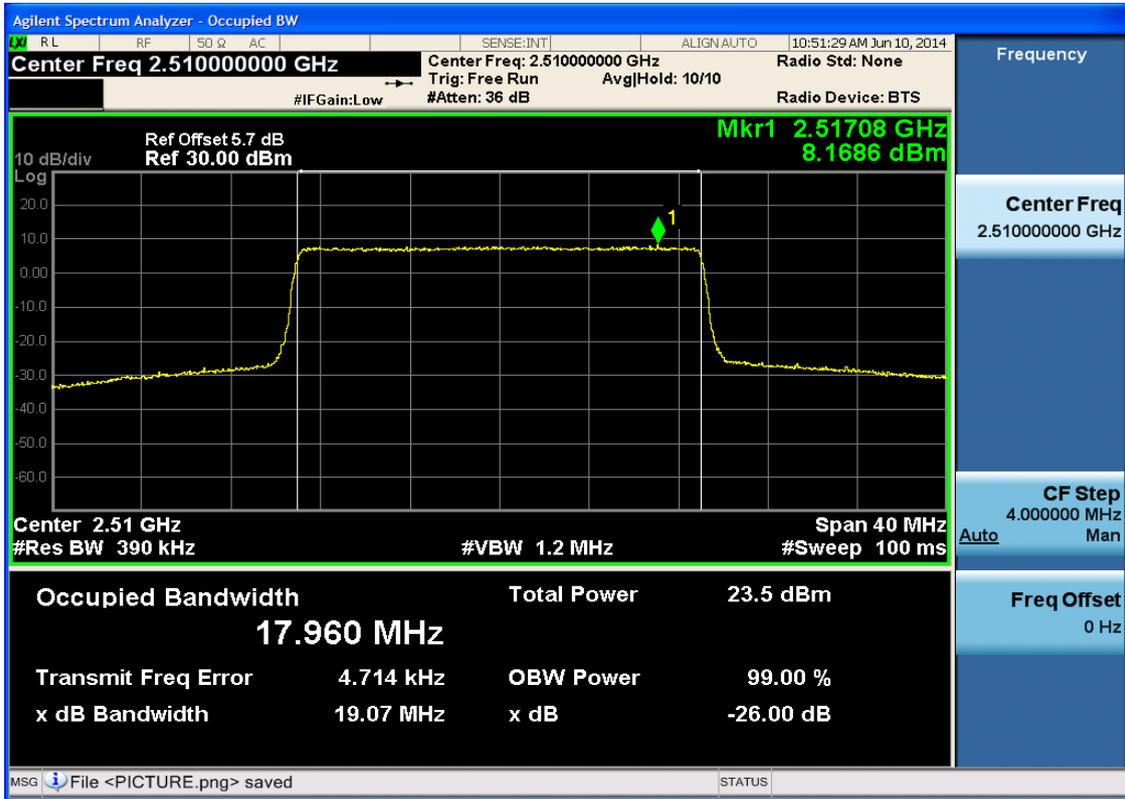
4.3.2.1.3.3.1 Test RB = RB75#0



4.3.2.1.4 Test Bandwidth = 20

4.3.2.1.4.1 Test Channel = LCH

4.3.2.1.4.1.1 Test RB = RB100#0





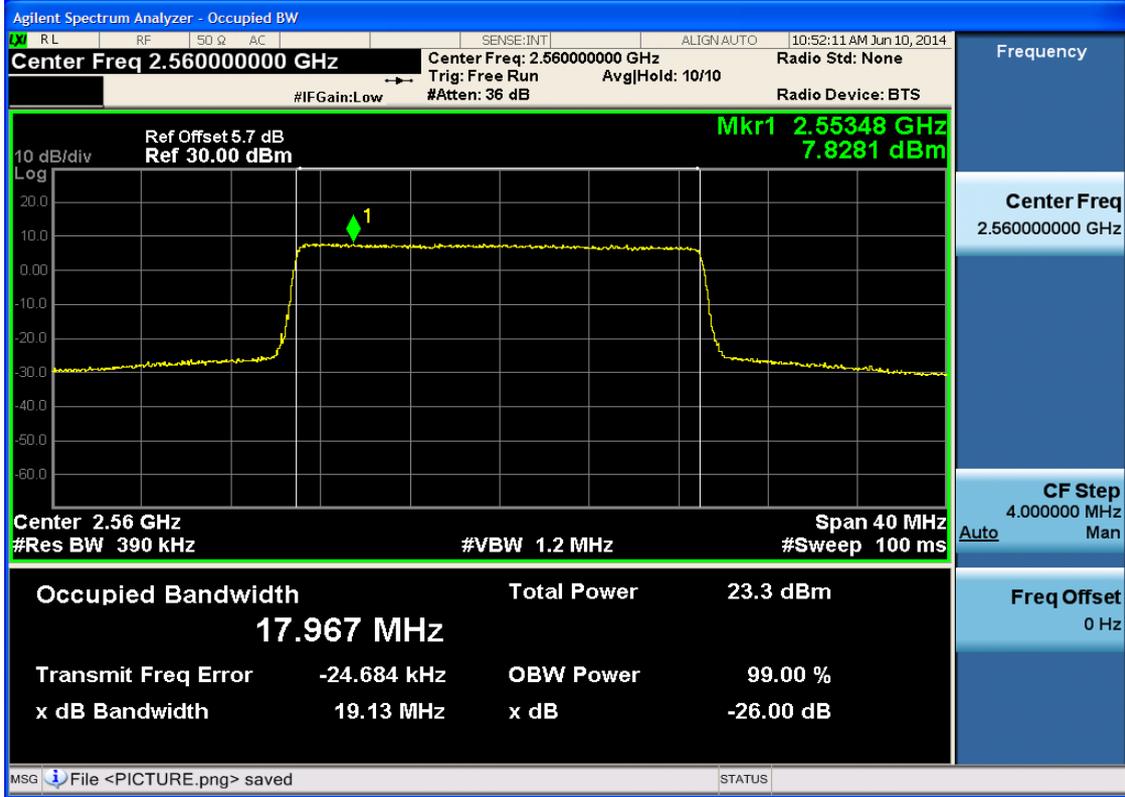
4.3.2.1.4.2 Test Channel = MCH

4.3.2.1.4.2.1 Test RB = RB100#0



4.3.2.1.4.3 Test Channel = HCH

4.3.2.1.4.3.1 Test RB = RB100#0



4.3.2.2 Test Mode = LTE/TM2

4.3.2.2.1 Test Bandwidth = 5

4.3.2.2.1.1 Test Channel = LCH

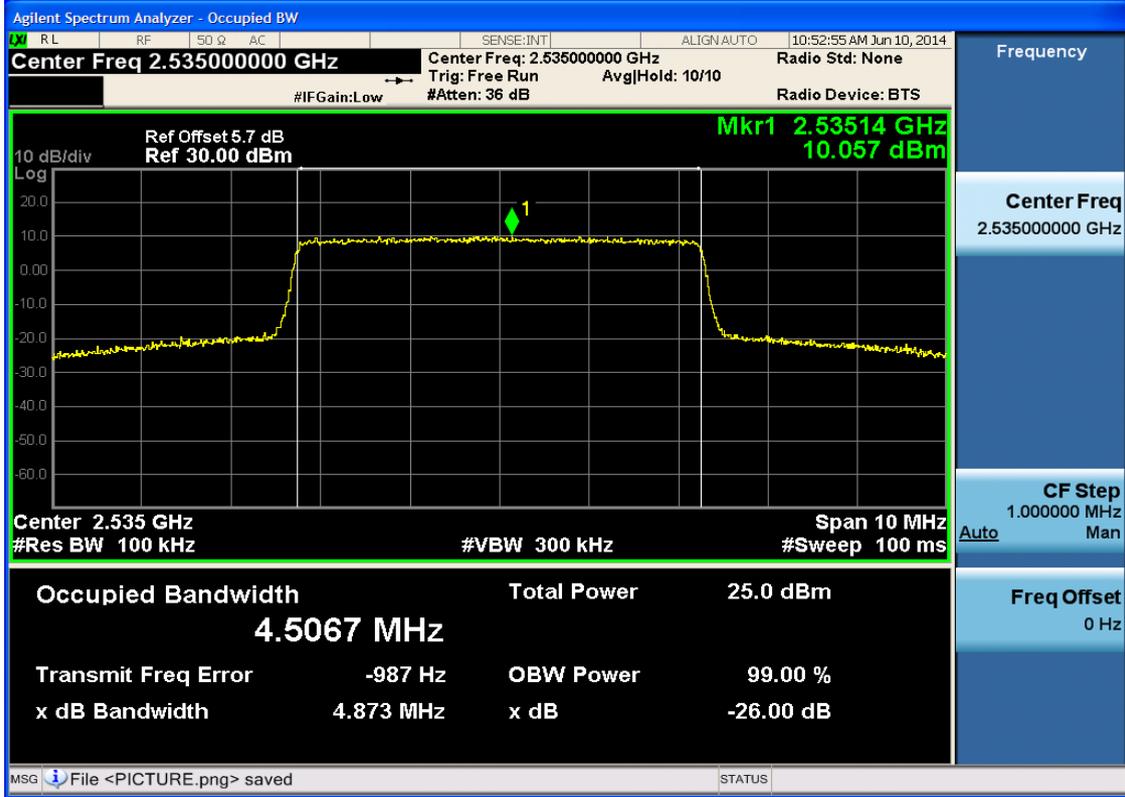
4.3.2.2.1.1.1 Test RB = RB25#0





4.3.2.2.1.2 Test Channel = MCH

4.3.2.2.1.2.1 Test RB = RB25#0



4.3.2.2.1.3 Test Channel = HCH

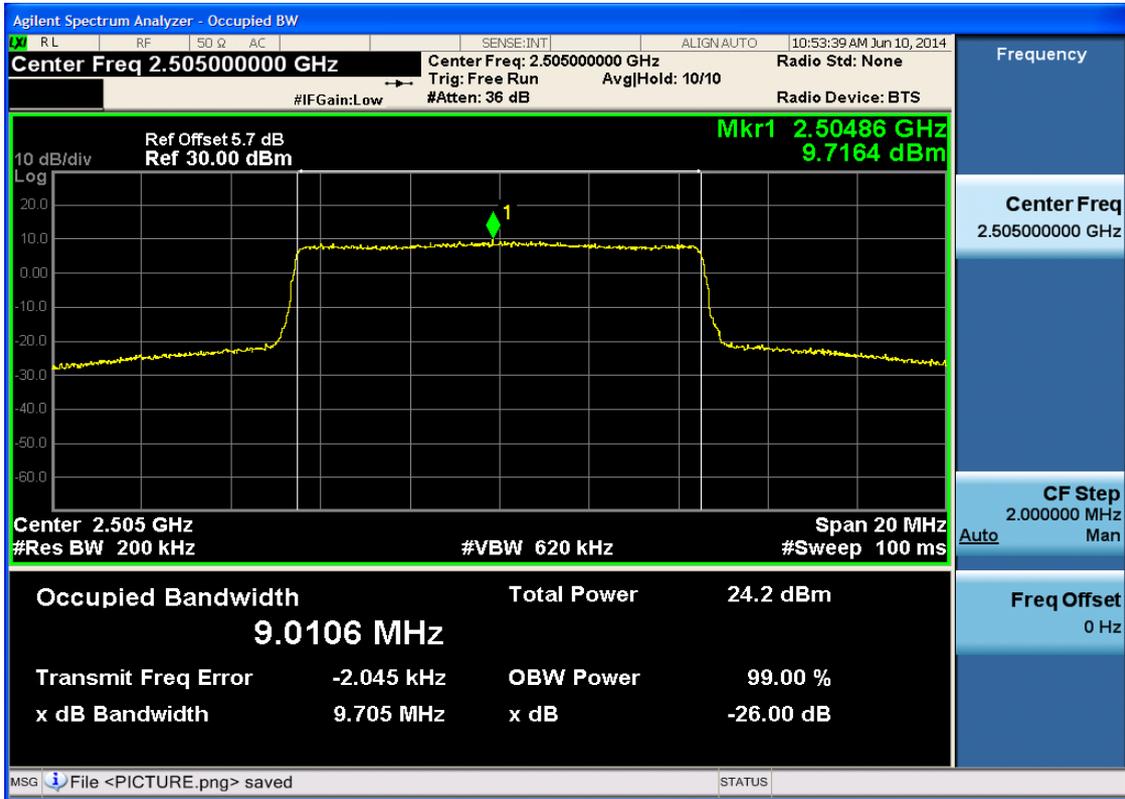
4.3.2.2.1.3.1 Test RB = RB25#0



4.3.2.2.2 Test Bandwidth = 10

4.3.2.2.2.1 Test Channel = LCH

4.3.2.2.2.1.1 Test RB = RB50#0



4.3.2.2.2 Test Channel = MCH

4.3.2.2.2.1 Test RB = RB50#0





4.3.2.2.3 Test Channel = HCH

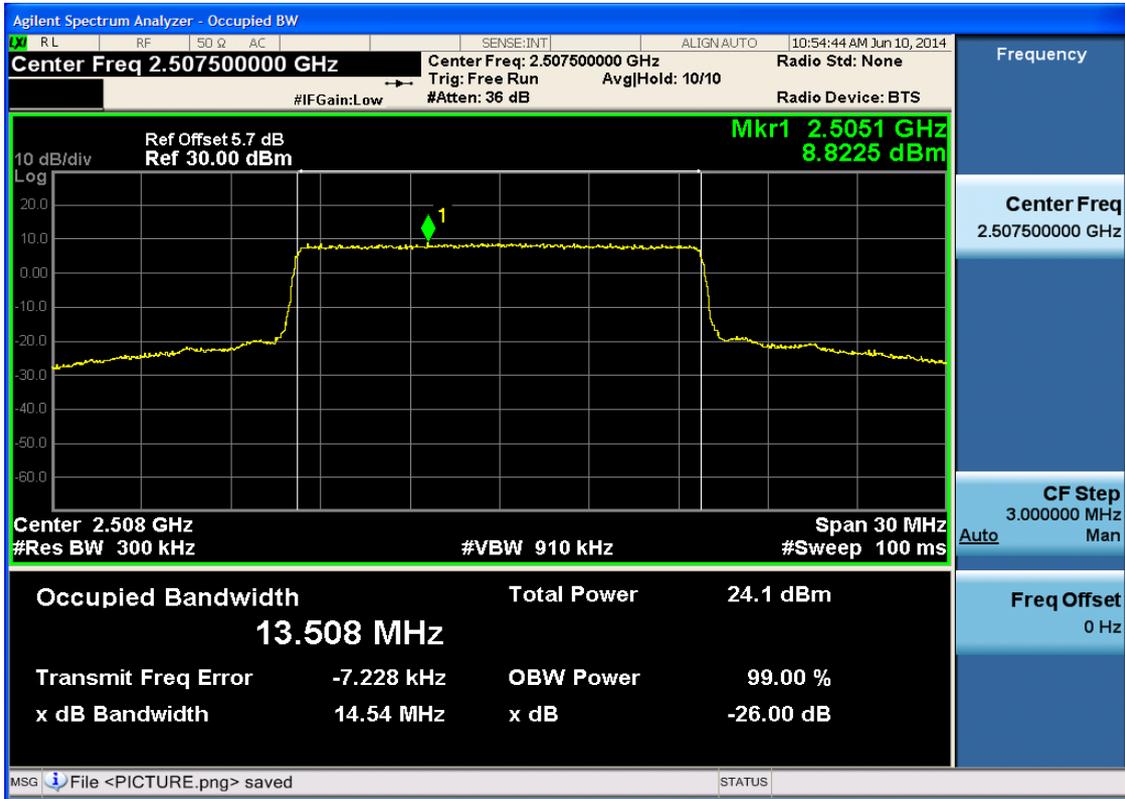
4.3.2.2.3.1 Test RB = RB50#0



4.3.2.2.3 Test Bandwidth = 15

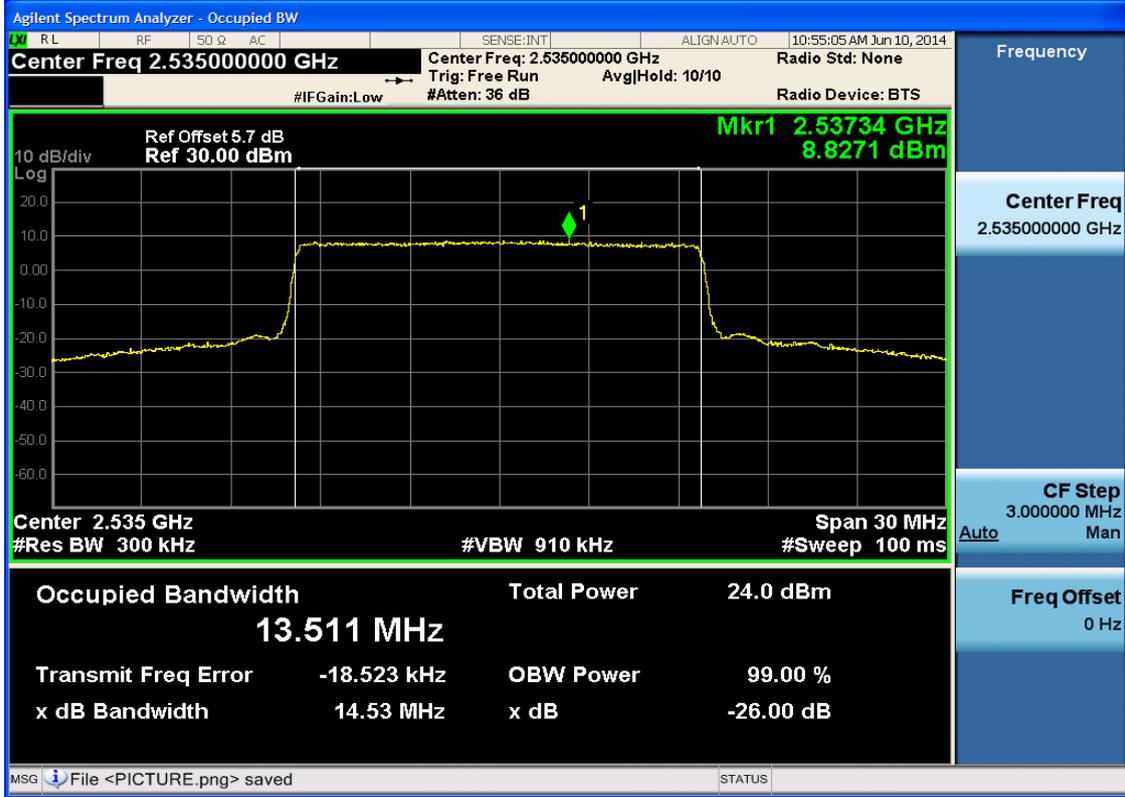
4.3.2.2.3.1 Test Channel = LCH

4.3.2.2.3.1.1 Test RB = RB75#0



4.3.2.2.3.2 Test Channel = MCH

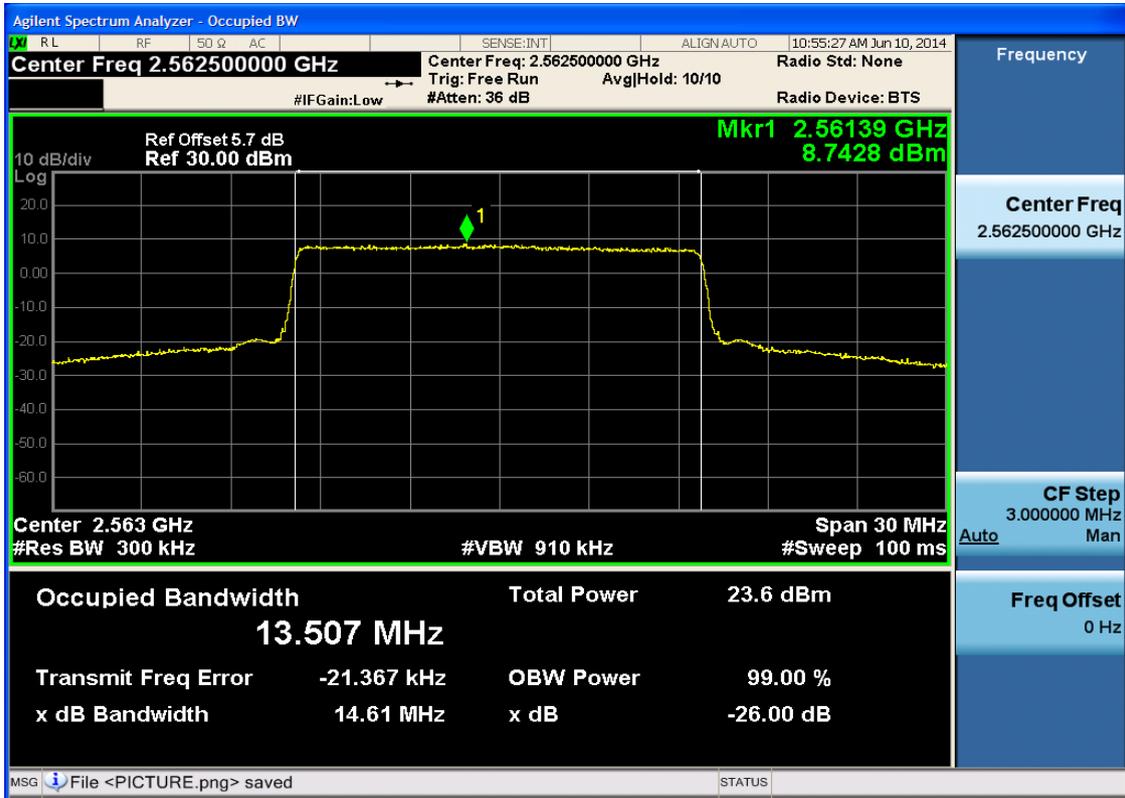
4.3.2.2.3.2.1 Test RB = RB75#0





4.3.2.2.3.3 Test Channel = HCH

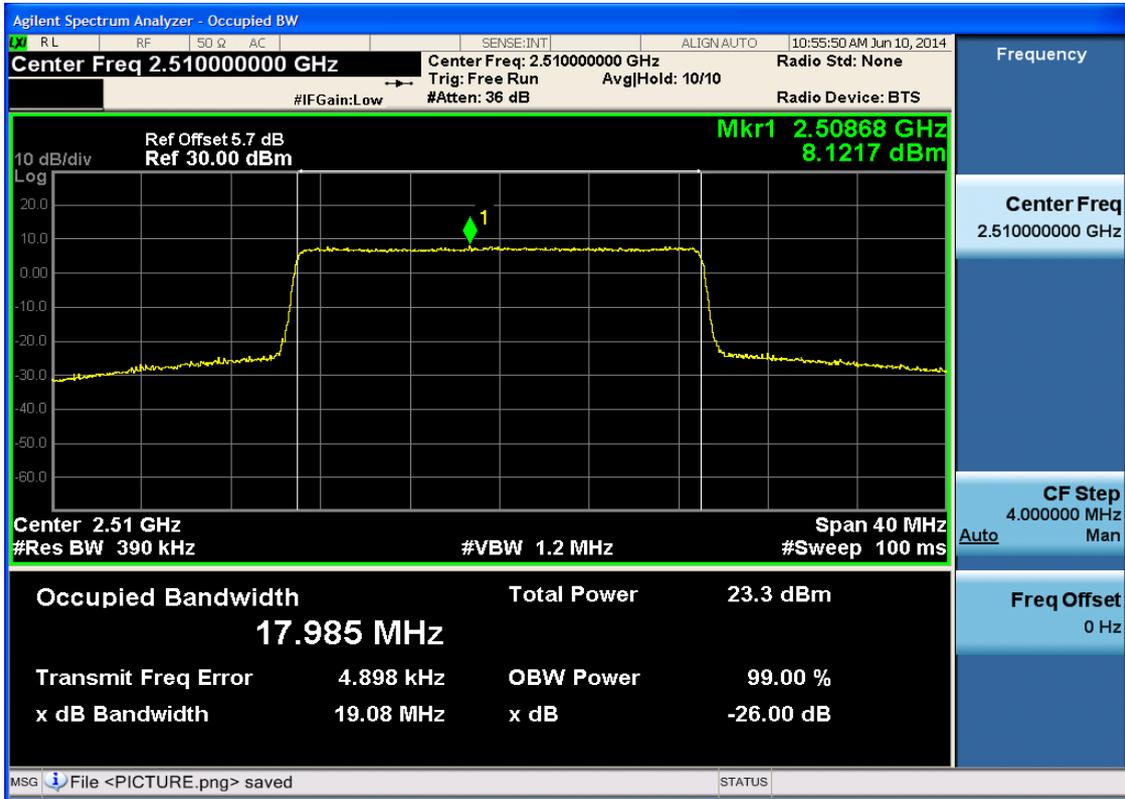
4.3.2.2.3.3.1 Test RB = RB75#0



4.3.2.2.4 Test Bandwidth = 20

4.3.2.2.4.1 Test Channel = LCH

4.3.2.2.4.1.1 Test RB = RB100#0





4.3.2.2.4.2 Test Channel = MCH

4.3.2.2.4.2.1 Test RB = RB100#0





4.3.2.2.4.3 Test Channel = HCH

4.3.2.2.4.3.1 Test RB = RB100#0





5Appendix_E: Band Edges Compliance

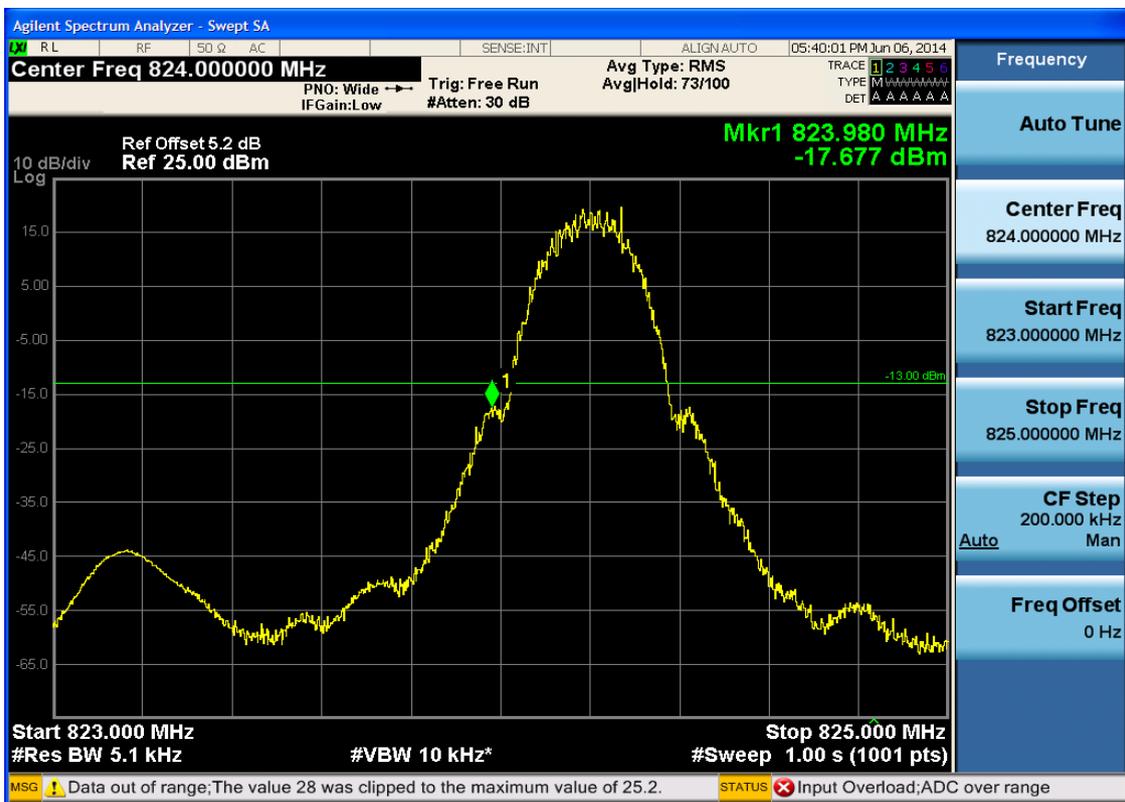
Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

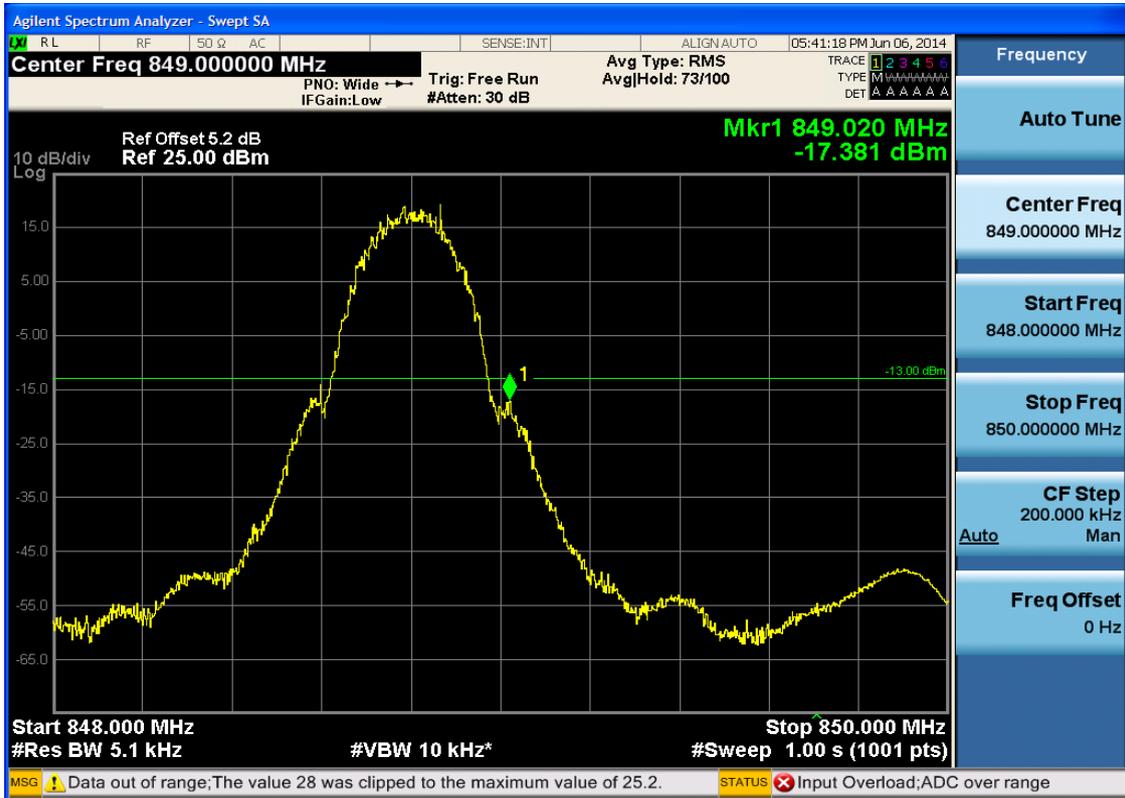
5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH



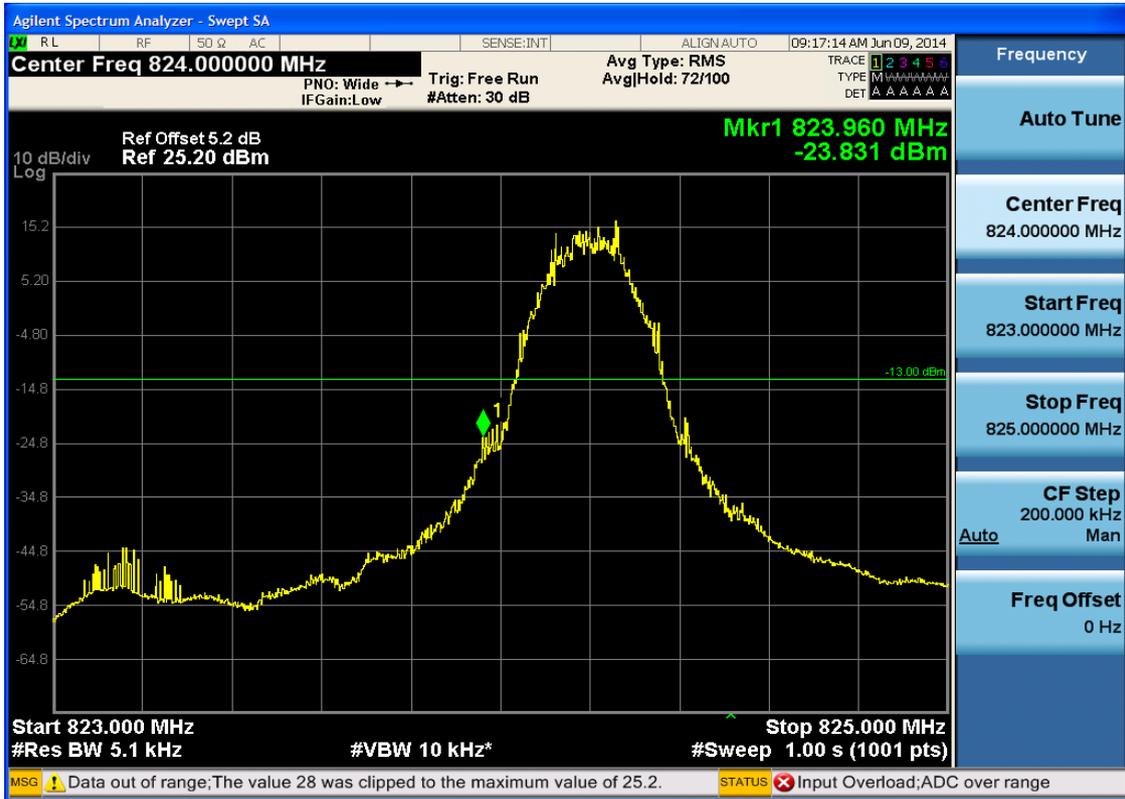


5.1.1.1.2 Test Channel = HCH



5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH



5.1.1.2.2 Test Channel = HCH

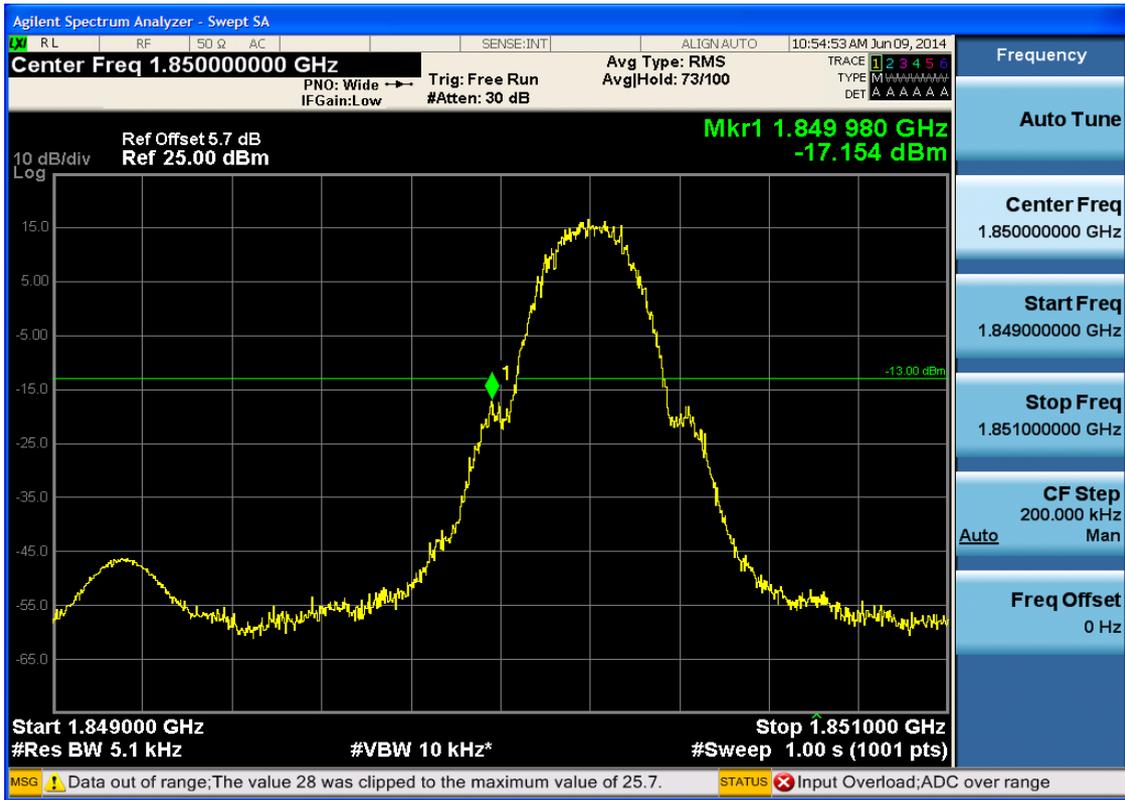




5.1.2 Test Band = GSM1900

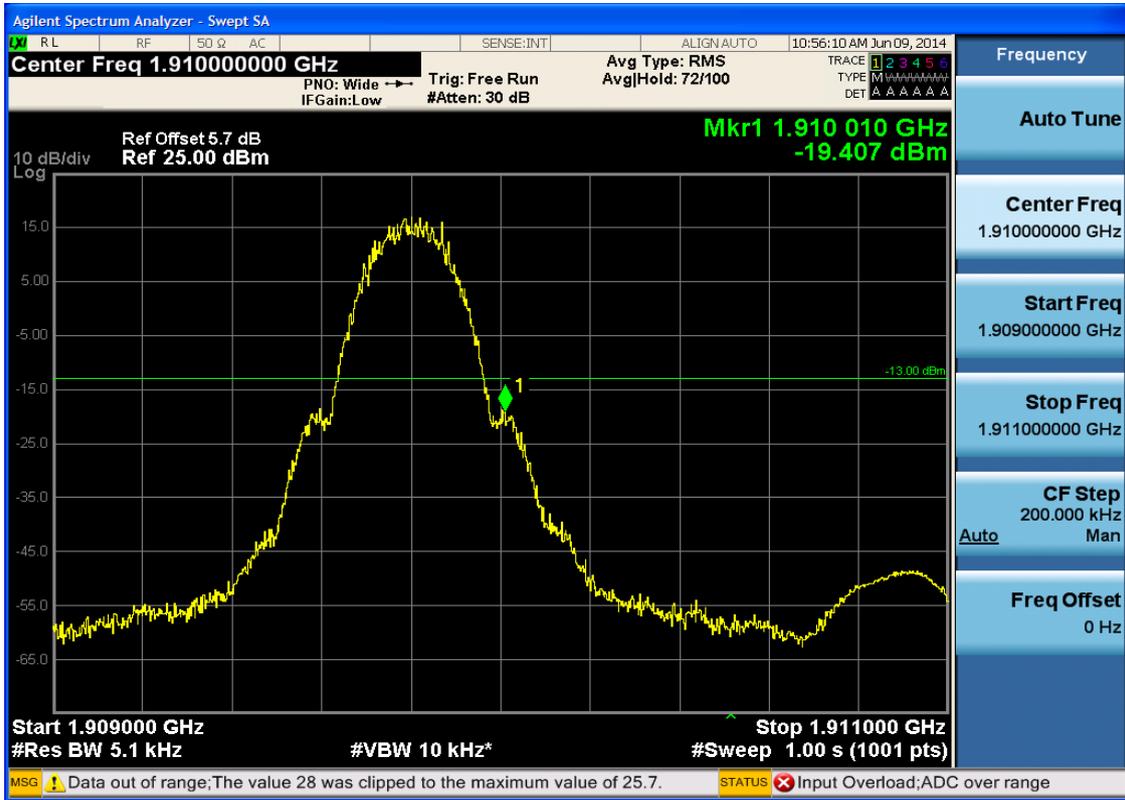
5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH





5.1.2.1.2 Test Channel = HCH



5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH

