Appendix for test report

1Appendix_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	32.83	29.71	38.5	PASS
		MCH	32.89	29.77	38.5	PASS
		HCH	32.76	29.64	38.5	PASS
	GSM/TM2	LCH	27.21	24.09	38.5	PASS
		MCH	27.16	24.04	38.5	PASS
		HCH	27.08	23.96	38.5	PASS
WCDMA850	UMTS/TM1	LCH	23.87	20.75	38.5	PASS
		MCH	23.99	20.87	38.5	PASS
		HCH	23.8	20.68	38.5	PASS

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
WCDMA1700	UMTS/TM1	LCH	23.34	24.01	30	PASS
		MCH	23.4	24.07	30	PASS
		HCH	23.18	23.85	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND4	LTE/TM1	1.4	LCH	RB1#0	22.75	23.45	30	PASS
				RB1#3	22.93	23.63	30	PASS
				RB1#5	22.85	23.55	30	PASS
				RB3#0	22.75	23.45	30	PASS
				RB3#2	22.84	23.54	30	PASS
				RB3#3	22.82	23.52	30	PASS
				RB6#0	21.78	22.48	30	PASS
			MCH	RB1#0	22.63	23.33	30	PASS
				RB1#3	22.81	23.51	30	PASS
				RB1#5	22.7	23.4	30	PASS
				RB3#0	22.66	23.36	30	PASS
				RB3#2	22.74	23.44	30	PASS
				RB3#3	22.7	23.4	30	PASS
				RB6#0	21.69	22.39	30	PASS
			HCH	RB1#0	22.53	23.23	30	PASS
				RB1#3	22.92	23.62	30	PASS
				RB1#5	22.82	23.52	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB3#0	22.79	23.49	30	PASS
				RB3#2	22.85	23.55	30	PASS
				RB3#3	22.82	23.52	30	PASS
				RB6#0	21.86	22.56	30	PASS
			LCH	RB1#0	22.41	23.11	30	PASS
				RB1#7	22.86	23.56	30	PASS
				RB1#14	22.67	23.37	30	PASS
				RB8#0	21.62	22.32	30	PASS
				RB8#4	21.77	22.47	30	PASS
				RB8#7	21.75	22.45	30	PASS
		3		RB15#0	21.69	22.39	30	PASS
			MCH	RB1#0	22.3	23	30	PASS
				RB1#7	22.8	23.5	30	PASS
				RB1#14	22.54	23.24	30	PASS
				RB8#0	21.5	22.2	30	PASS
				RB8#4	21.64	22.34	30	PASS
				RB8#7	21.74	22.44	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB15#0	21.54	22.24	30	PASS
			HCH	RB1#0	22.4	23.1	30	PASS
				RB1#7	22.78	23.48	30	PASS
				RB1#14	22.67	23.37	30	PASS
				RB8#0	21.6	22.3	30	PASS
				RB8#4	21.62	22.32	30	PASS
				RB8#7	21.83	22.53	30	PASS
				RB15#0	21.53	22.23	30	PASS
		5	LCH	RB1#0	22.23	22.93	30	PASS
				RB1#13	22.95	23.65	30	PASS
				RB1#24	22.23	22.93	30	PASS
				RB12#0	21.58	22.28	30	PASS
				RB12#6	21.82	22.52	30	PASS
				RB12#13	21.6	22.3	30	PASS
				RB25#0	21.58	22.28	30	PASS
			MCH	RB1#0	22.13	22.83	30	PASS
				RB1#13	23.17	23.87	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#24	22.59	23.29	30	PASS
				RB12#0	21.83	22.53	30	PASS
				RB12#6	22.04	22.74	30	PASS
				RB12#13	21.89	22.59	30	PASS
				RB25#0	21.79	22.49	30	PASS
			HCH	RB1#0	22.56	23.26	30	PASS
				RB1#13	23.2	23.9	30	PASS
				RB1#24	22.6	23.3	30	PASS
				RB12#0	21.93	22.63	30	PASS
				RB12#6	22.14	22.84	30	PASS
				RB12#13	21.79	22.49	30	PASS
				RB25#0	21.8	22.5	30	PASS
		10	LCH	RB1#0	22.17	22.87	30	PASS
				RB1#25	22.89	23.59	30	PASS
				RB1#49	21.38	22.08	30	PASS
				RB25#0	21.78	22.48	30	PASS
				RB25#13	21.94	22.64	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.62	22.32	30	PASS
				RB50#0	21.69	22.39	30	PASS
			MCH	RB1#0	22.25	22.95	30	PASS
				RB1#25	23.17	23.87	30	PASS
				RB1#49	22.29	22.99	30	PASS
				RB25#0	21.59	22.29	30	PASS
				RB25#13	21.79	22.49	30	PASS
				RB25#25	21.83	22.53	30	PASS
				RB50#0	21.7	22.4	30	PASS
			HCH	RB1#0	22.99	23.69	30	PASS
				RB1#25	23.21	23.91	30	PASS
				RB1#49	22.04	22.74	30	PASS
				RB25#0	21.96	22.66	30	PASS
				RB25#13	21.9	22.6	30	PASS
				RB25#25	21.5	22.2	30	PASS
				RB50#0	21.72	22.42	30	PASS
		15	LCH	RB1#0	22.96	23.66	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#38	23.08	23.78	30	PASS
				RB1#74	22.2	22.9	30	PASS
				RB38#0	21.91	22.61	30	PASS
				RB38#19	22.02	22.72	30	PASS
				RB38#39	21.75	22.45	30	PASS
				RB75#0	21.84	22.54	30	PASS
			MCH	RB1#0	22.7	23.4	30	PASS
				RB1#38	23.1	23.8	30	PASS
				RB1#74	22.76	23.46	30	PASS
				RB38#0	21.76	22.46	30	PASS
				RB38#19	22	22.7	30	PASS
				RB38#39	22.06	22.76	30	PASS
				RB75#0	21.77	22.47	30	PASS
			HCH	RB1#0	23.42	24.12	30	PASS
				RB1#38	23.4	24.1	30	PASS
				RB1#74	22.5	23.2	30	PASS
				RB38#0	22.27	22.97	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB38#19	22.27	22.97	30	PASS
				RB38#39	21.69	22.39	30	PASS
				RB75#0	22.1	22.8	30	PASS
			LCH	RB1#0	23.43	24.13	30	PASS
				RB1#50	23.07	23.77	30	PASS
				RB1#99	22.82	23.52	30	PASS
				RB50#0	22.2	22.9	30	PASS
				RB50#25	21.88	22.58	30	PASS
				RB50#50	21.95	22.65	30	PASS
		20		RB100#0	22.07	22.77	30	PASS
			MCH	RB1#0	23.31	24.01	30	PASS
				RB1#50	23.14	23.84	30	PASS
				RB1#99	23.42	24.12	30	PASS
				RB50#0	21.97	22.67	30	PASS
				RB50#25	22.01	22.71	30	PASS
				RB50#50	22.27	22.97	30	PASS
				RB100#0	22.05	22.75	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	23.92	24.62	30	PASS
				RB1#50	23.67	24.37	30	PASS
				RB1#99	22.81	23.51	30	PASS
				RB50#0	22.54	23.24	30	PASS
				RB50#25	22.31	23.01	30	PASS
				RB50#50	22.13	22.83	30	PASS
				RB100#0	22.32	23.02	30	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.79	22.49	30	PASS
				RB1#3	22.14	22.84	30	PASS
				RB1#5	22.05	22.75	30	PASS
				RB3#0	21.83	22.53	30	PASS
				RB3#2	21.93	22.63	30	PASS
				RB3#3	22.04	22.74	30	PASS
				RB6#0	20.95	21.65	30	PASS
			MCH	RB1#0	21.91	22.61	30	PASS
				RB1#3	22.11	22.81	30	PASS
				RB1#5	22	22.7	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB3#0	21.77	22.47	30	PASS
				RB3#2	22.03	22.73	30	PASS
				RB3#3	21.83	22.53	30	PASS
				RB6#0	20.93	21.63	30	PASS
			HCH	RB1#0	21.91	22.61	30	PASS
				RB1#3	22.13	22.83	30	PASS
				RB1#5	22.21	22.91	30	PASS
				RB3#0	22.06	22.76	30	PASS
				RB3#2	22.17	22.87	30	PASS
				RB3#3	22.14	22.84	30	PASS
				RB6#0	21.16	21.86	30	PASS
		3	LCH	RB1#0	21.8	22.5	30	PASS
				RB1#7	22.39	23.09	30	PASS
				RB1#14	22.05	22.75	30	PASS
				RB8#0	20.85	21.55	30	PASS
				RB8#4	21.01	21.71	30	PASS
				RB8#7	21	21.7	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB15#0	20.86	21.56	30	PASS
			MCH	RB1#0	21.69	22.39	30	PASS
				RB1#7	22.23	22.93	30	PASS
				RB1#14	21.89	22.59	30	PASS
				RB8#0	20.74	21.44	30	PASS
				RB8#4	20.92	21.62	30	PASS
				RB8#7	21.01	21.71	30	PASS
				RB15#0	20.76	21.46	30	PASS
			HCH	RB1#0	21.61	22.31	30	PASS
				RB1#7	22.13	22.83	30	PASS
				RB1#14	21.89	22.59	30	PASS
				RB8#0	20.9	21.6	30	PASS
				RB8#4	20.85	21.55	30	PASS
				RB8#7	21.08	21.78	30	PASS
				RB15#0	20.78	21.48	30	PASS
		5	LCH	RB1#0	21.24	21.94	30	PASS
				RB1#13	21.98	22.68	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#24	21.25	21.95	30	PASS
				RB12#0	20.29	20.99	30	PASS
				RB12#6	20.54	21.24	30	PASS
				RB12#13	20.32	21.02	30	PASS
				RB25#0	20.19	20.89	30	PASS
			MCH	RB1#0	21.49	22.19	30	PASS
				RB1#13	22.14	22.84	30	PASS
				RB1#24	21.58	22.28	30	PASS
				RB12#0	20.79	21.49	30	PASS
				RB12#6	21	21.7	30	PASS
				RB12#13	20.83	21.53	30	PASS
				RB25#0	20.66	21.36	30	PASS
			HCH	RB1#0	21.86	22.56	30	PASS
				RB1#13	22.48	23.18	30	PASS
				RB1#24	21.9	22.6	30	PASS
				RB12#0	20.82	21.52	30	PASS
				RB12#6	21.03	21.73	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#13	20.68	21.38	30	PASS
				RB25#0	20.65	21.35	30	PASS
			LCH	RB1#0	21.75	22.45	30	PASS
				RB1#25	22.41	23.11	30	PASS
				RB1#49	20.99	21.69	30	PASS
				RB25#0	20.66	21.36	30	PASS
				RB25#13	20.82	21.52	30	PASS
				RB25#25	20.5	21.2	30	PASS
				RB50#0	20.53	21.23	30	PASS
		10		RB1#0	21.46	22.16	30	PASS
				RB1#25	22.37	23.07	30	PASS
				RB1#49	21.47	22.17	30	PASS
			MCH	RB25#0	20.49	21.19	30	PASS
				RB25#13	20.67	21.37	30	PASS
				RB25#25	20.75	21.45	30	PASS
				RB50#0	20.55	21.25	30	PASS
			HCH	RB1#0	22.14	22.84	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#25	22.4	23.1	30	PASS
				RB1#49	21.2	21.9	30	PASS
				RB25#0	20.87	21.57	30	PASS
				RB25#13	20.81	21.51	30	PASS
				RB25#25	20.42	21.12	30	PASS
				RB50#0	20.65	21.35	30	PASS
		15	LCH	RB1#0	22.06	22.76	30	PASS
				RB1#38	22.18	22.88	30	PASS
				RB1#74	21.31	22.01	30	PASS
				RB38#0	20.83	21.53	30	PASS
				RB38#19	20.93	21.63	30	PASS
				RB38#39	20.67	21.37	30	PASS
				RB75#0	20.72	21.42	30	PASS
			MCH	RB1#0	21.8	22.5	30	PASS
				RB1#38	22.19	22.89	30	PASS
				RB1#74	21.87	22.57	30	PASS
				RB38#0	20.67	21.37	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB38#19	20.92	21.62	30	PASS
				RB38#39	20.99	21.69	30	PASS
				RB75#0	20.65	21.35	30	PASS
			HCH	RB1#0	22.6	23.3	30	PASS
				RB1#38	22.59	23.29	30	PASS
				RB1#74	21.72	22.42	30	PASS
				RB38#0	21.21	21.91	30	PASS
				RB38#19	21.19	21.89	30	PASS
				RB38#39	20.63	21.33	30	PASS
				RB75#0	21.02	21.72	30	PASS
		20	LCH	RB1#0	22.87	23.57	30	PASS
				RB1#50	22.49	23.19	30	PASS
				RB1#99	22.26	22.96	30	PASS
				RB50#0	21.17	21.87	30	PASS
				RB50#25	20.84	21.54	30	PASS
				RB50#50	20.92	21.62	30	PASS
				RB100#0	21.04	21.74	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.64	23.34	30	PASS
				RB1#50	22.46	23.16	30	PASS
				RB1#99	22.76	23.46	30	PASS
				RB50#0	20.85	21.55	30	PASS
				RB50#25	20.88	21.58	30	PASS
				RB50#50	21.16	21.86	30	PASS
				RB100#0	20.92	21.62	30	PASS
			HCH	RB1#0	23.33	24.03	30	PASS
				RB1#50	23.03	23.73	30	PASS
				RB1#99	22.23	22.93	30	PASS
				RB50#0	21.42	22.12	30	PASS
				RB50#25	21.19	21.89	30	PASS
				RB50#50	21.02	21.72	30	PASS
				RB100#0	21.21	21.91	30	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

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM850	GSM/TM1	LCH	0.22	13	PASS
		MCH	0.22	13	PASS
		HCH	0.21	13	PASS
	GSM/TM2	LCH	2.82	13	PASS
		MCH	2.72	13	PASS
		HCH	2.84	13	PASS
Test Band	**Test Mode**	**Test Channel**	**Measured[dB]**	**Limit [dB]**	**Verdict**
WCDMA850	UMTS/TM1	LCH	2.75	13	PASS
		MCH	2.88	13	PASS
		HCH	2.66	13	PASS
WCDMA1700	UMTS/TM1	LCH	2.72	13	PASS
		MCH	2.72	13	PASS
		HCH	2.76	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND4	LTE/TM1	1.4	LCH	RB1#0	4.49	13	PASS
				RB1#3	4.34	13	PASS
				RB1#5	4.43	13	PASS
				RB3#0	5.04	13	PASS
				RB3#2	4.77	13	PASS
				RB3#3	4.96	13	PASS
				RB6#0	5.79	13	PASS
			MCH	RB1#0	4.96	13	PASS
				RB1#3	4.84	13	PASS
				RB1#5	4.92	13	PASS
				RB3#0	5.55	13	PASS
				RB3#2	5.33	13	PASS
				RB3#3	5.43	13	PASS
				RB6#0	5.68	13	PASS
			HCH	RB1#0	4.24	13	PASS
				RB1#3	4.03	13	PASS
				RB1#5	4.09	13	PASS
				RB3#0	4.58	13	PASS
				RB3#2	4.56	13	PASS
				RB3#3	4.76	13	PASS
				RB6#0	5.35	13	PASS
		3	LCH	RB1#0	4.45	13	PASS
				RB1#7	4.38	13	PASS
				RB1#14	4.31	13	PASS
				RB8#0	5.52	13	PASS
				RB8#4	5.52	13	PASS
				RB8#7	5.68	13	PASS
				RB15#0	5.68	13	PASS
			MCH	RB1#0	5.01	13	PASS
				RB1#7	4.64	13	PASS
				RB1#14	4.83	13	PASS
				RB8#0	5.69	13	PASS
				RB8#4	6.03	13	PASS
				RB8#7	6.11	13	PASS
				RB15#0	5.81	13	PASS
			HCH	RB1#0	4.48	13	PASS
				RB1#7	4.15	13	PASS
				RB1#14	4.15	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	5.5	13	PASS
				RB8#4	5.54	13	PASS
				RB8#7	5.42	13	PASS
				RB15#0	5.77	13	PASS
		5	LCH	RB1#0	4.91	13	PASS
				RB1#13	4.29	13	PASS
				RB1#24	4.72	13	PASS
				RB12#0	5.73	13	PASS
				RB12#6	5.54	13	PASS
				RB12#13	5.77	13	PASS
				RB25#0	5.85	13	PASS
			MCH	RB1#0	5.17	13	PASS
				RB1#13	4.81	13	PASS
				RB1#24	5.06	13	PASS
				RB12#0	6.35	13	PASS
				RB12#6	6.13	13	PASS
				RB12#13	6.19	13	PASS
				RB25#0	6.05	13	PASS
			HCH	RB1#0	4.64	13	PASS
				RB1#13	4.14	13	PASS
				RB1#24	4.39	13	PASS
				RB12#0	5.6	13	PASS
				RB12#6	5.41	13	PASS
				RB12#13	5.57	13	PASS
				RB25#0	5.86	13	PASS
		10	LCH	RB1#0	4.62	13	PASS
				RB1#25	4.25	13	PASS
				RB1#49	4.83	13	PASS
				RB25#0	6.03	13	PASS
				RB25#13	5.81	13	PASS
				RB25#25	6.14	13	PASS
				RB50#0	6.19	13	PASS
			MCH	RB1#0	4.98	13	PASS
				RB1#25	4.59	13	PASS
				RB1#49	4.91	13	PASS
				RB25#0	6.46	13	PASS
				RB25#13	6.26	13	PASS
				RB25#25	6.4	13	PASS
				RB50#0	6.47	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	4.61	13	PASS
				RB1#25	4.28	13	PASS
				RB1#49	4.77	13	PASS
				RB25#0	6.05	13	PASS
				RB25#13	5.86	13	PASS
				RB25#25	6.09	13	PASS
				RB50#0	6.2	13	PASS
		15	LCH	RB1#0	4.19	13	PASS
				RB1#38	4.23	13	PASS
				RB1#74	4.79	13	PASS
				RB38#0	5.99	13	PASS
				RB38#19	5.89	13	PASS
				RB38#39	6.23	13	PASS
				RB75#0	6.38	13	PASS
			MCH	RB1#0	4.76	13	PASS
				RB1#38	4.59	13	PASS
				RB1#74	4.63	13	PASS
				RB38#0	6.5	13	PASS
				RB38#19	6.23	13	PASS
				RB38#39	6.31	13	PASS
				RB75#0	6.54	13	PASS
			HCH	RB1#0	4.43	13	PASS
				RB1#38	4.15	13	PASS
				RB1#74	4.41	13	PASS
				RB38#0	6.05	13	PASS
				RB38#19	5.82	13	PASS
				RB38#39	6.14	13	PASS
				RB75#0	6.17	13	PASS
		20	LCH	RB1#0	4.13	13	PASS
				RB1#50	4.49	13	PASS
				RB1#99	4.92	13	PASS
				RB50#0	5.9	13	PASS
				RB50#25	6.16	13	PASS
				RB50#50	6.33	13	PASS
				RB100#0	6.34	13	PASS
			MCH	RB1#0	4.64	13	PASS
				RB1#50	4.83	13	PASS
				RB1#99	4.53	13	PASS
				RB50#0	6.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#25	6.31	13	PASS
				RB50#50	6.2	13	PASS
				RB100#0	6.5	13	PASS
			HCH	RB1#0	4.3	13	PASS
				RB1#50	4.12	13	PASS
				RB1#99	4.35	13	PASS
				RB50#0	5.99	13	PASS
				RB50#25	5.93	13	PASS
				RB50#50	5.97	13	PASS
				RB100#0	6.29	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.17	13	PASS
				RB1#3	5.22	13	PASS
				RB1#5	5.33	13	PASS
				RB3#0	5.82	13	PASS
				RB3#2	5.68	13	PASS
				RB3#3	5.77	13	PASS
				RB6#0	6.61	13	PASS
			MCH	RB1#0	5.94	13	PASS
				RB1#3	5.82	13	PASS
				RB1#5	5.89	13	PASS
				RB3#0	6.44	13	PASS
				RB3#2	6.24	13	PASS
				RB3#3	6.44	13	PASS
				RB6#0	6.56	13	PASS
			HCH	RB1#0	5.23	13	PASS
				RB1#3	4.83	13	PASS
				RB1#5	5.01	13	PASS
				RB3#0	5.48	13	PASS
				RB3#2	5.54	13	PASS
				RB3#3	5.47	13	PASS
				RB6#0	6.56	13	PASS
		3	LCH	RB1#0	5.45	13	PASS
				RB1#7	5.05	13	PASS
				RB1#14	5.28	13	PASS
				RB8#0	6.34	13	PASS
				RB8#4	6.26	13	PASS
				RB8#7	6.25	13	PASS
				RB15#0	6.6	13	PASS
			MCH	RB1#0	6.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#7	5.75	13	PASS
				RB1#14	5.87	13	PASS
				RB8#0	7	13	PASS
				RB8#4	6.42	13	PASS
				RB8#7	6.38	13	PASS
				RB15#0	6.96	13	PASS
			HCH	RB1#0	5.77	13	PASS
				RB1#7	5.09	13	PASS
				RB1#14	5.16	13	PASS
				RB8#0	6.26	13	PASS
				RB8#4	6.63	13	PASS
				RB8#7	6.5	13	PASS
				RB15#0	6.59	13	PASS
			LCH	RB1#0	5.48	13	PASS
				RB1#13	5.03	13	PASS
				RB1#24	5.47	13	PASS
				RB12#0	6.67	13	PASS
				RB12#6	6.64	13	PASS
				RB12#13	6.69	13	PASS
				RB25#0	6.6	13	PASS
		5	MCH	RB1#0	5.9	13	PASS
				RB1#13	5.59	13	PASS
				RB1#24	5.71	13	PASS
				RB12#0	7.09	13	PASS
				RB12#6	7.16	13	PASS
				RB12#13	7.05	13	PASS
				RB25#0	7.09	13	PASS
			HCH	RB1#0	5.51	13	PASS
				RB1#13	4.94	13	PASS
				RB1#24	5.24	13	PASS
				RB12#0	6.67	13	PASS
				RB12#6	6.52	13	PASS
				RB12#13	6.69	13	PASS
				RB25#0	6.94	13	PASS
		10	LCH	RB1#0	5.61	13	PASS
				RB1#25	5.18	13	PASS
				RB1#49	6.36	13	PASS
				RB25#0	6.76	13	PASS
				RB25#13	6.66	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	7	13	PASS
				RB50#0	7.19	13	PASS
			MCH	RB1#0	6.15	13	PASS
				RB1#25	5.54	13	PASS
				RB1#49	6.13	13	PASS
				RB25#0	7.34	13	PASS
				RB25#13	7.24	13	PASS
				RB25#25	7.2	13	PASS
				RB50#0	7.48	13	PASS
			HCH	RB1#0	5.48	13	PASS
				RB1#25	5.04	13	PASS
				RB1#49	5.59	13	PASS
				RB25#0	7.15	13	PASS
				RB25#13	6.92	13	PASS
				RB25#25	7.25	13	PASS
				RB50#0	7.07	13	PASS
			LCH	RB1#0	5.5	13	PASS
				RB1#38	5.45	13	PASS
				RB1#74	6.19	13	PASS
				RB38#0	6.88	13	PASS
				RB38#19	6.79	13	PASS
				RB38#39	7.13	13	PASS
				RB75#0	7.35	13	PASS
		15	MCH	RB1#0	5.81	13	PASS
				RB1#38	5.61	13	PASS
				RB1#74	5.71	13	PASS
				RB38#0	7.45	13	PASS
				RB38#19	7.27	13	PASS
				RB38#39	7.24	13	PASS
				RB75#0	7.61	13	PASS
			HCH	RB1#0	5.26	13	PASS
				RB1#38	5.01	13	PASS
				RB1#74	5.31	13	PASS
				RB38#0	7	13	PASS
				RB38#19	6.78	13	PASS
				RB38#39	7.11	13	PASS
				RB75#0	7.16	13	PASS
		20	LCH	RB1#0	4.86	13	PASS
				RB1#50	5.26	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	5.65	13	PASS
				RB50#0	6.85	13	PASS
				RB50#25	7.08	13	PASS
				RB50#50	7.22	13	PASS
				RB100#0	7.19	13	PASS
			MCH	RB1#0	5.3	13	PASS
				RB1#50	5.31	13	PASS
				RB1#99	5.09	13	PASS
				RB50#0	7.26	13	PASS
				RB50#25	7.28	13	PASS
				RB50#50	7.07	13	PASS
				RB100#0	7.26	13	PASS
			HCH	RB1#0	4.9	13	PASS
				RB1#50	4.78	13	PASS
				RB1#99	5.02	13	PASS
				RB50#0	6.9	13	PASS
				RB50#25	6.76	13	PASS
				RB50#50	6.82	13	PASS
				RB100#0	6.98	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
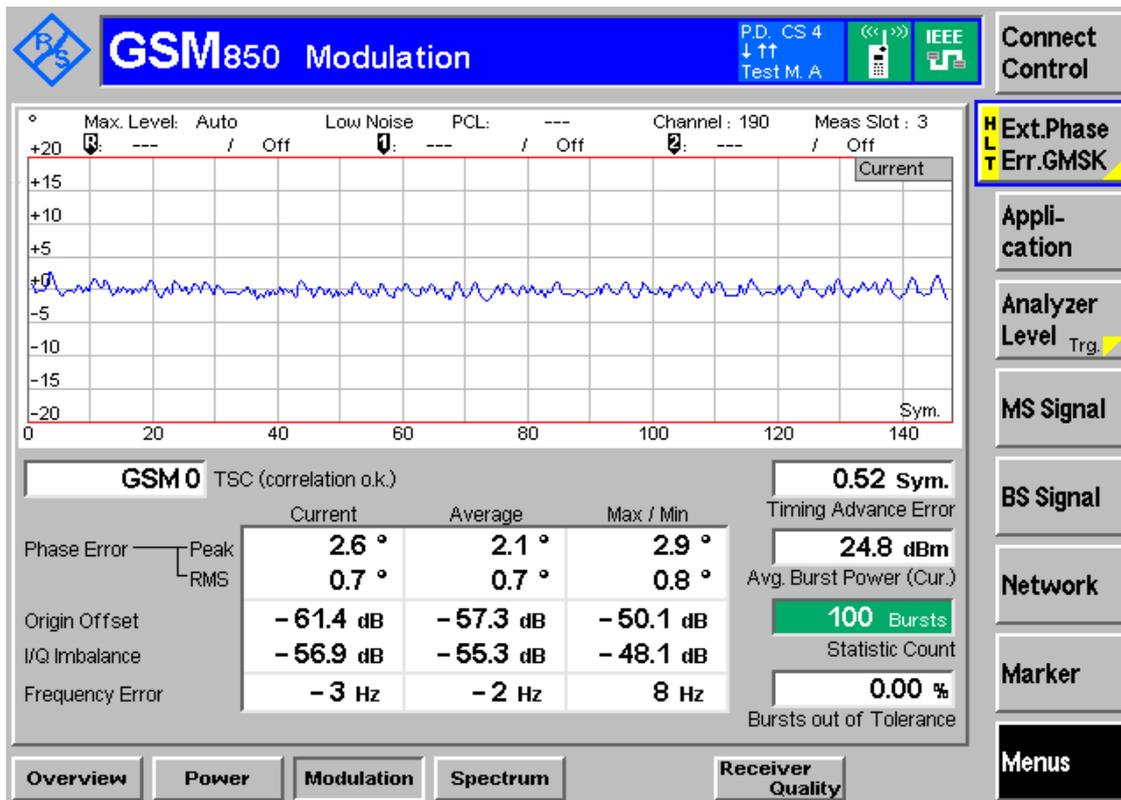
3.1.1.2 Test Mode = GSM/TM2

3.1.1.2.1 Test Channel = MCH
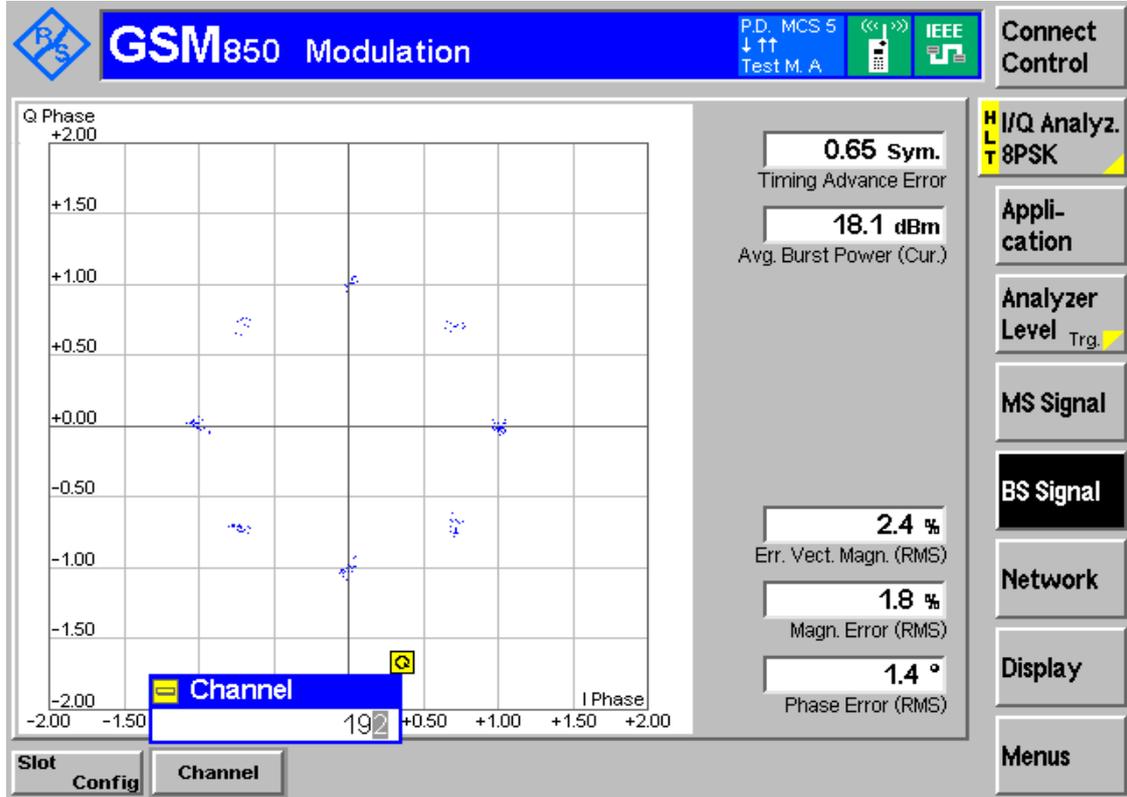
3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

3.2.1.1.1 Test Channel = MCH
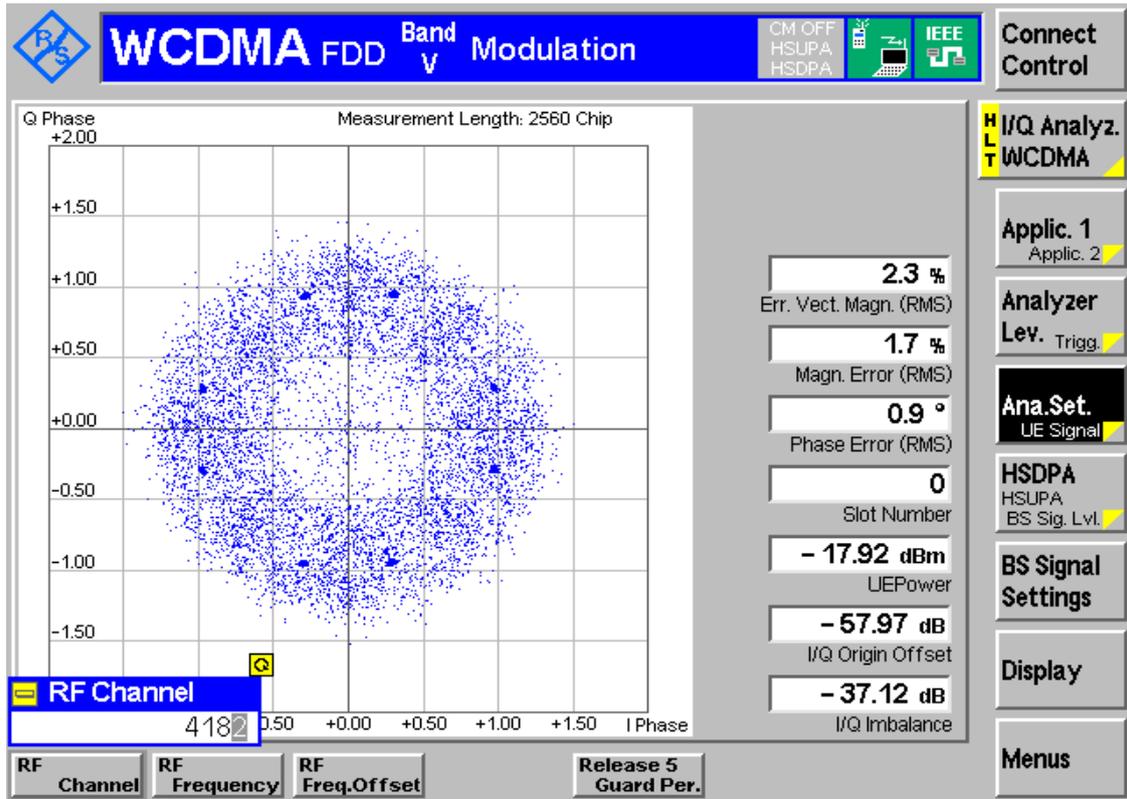
3.2.2 Test Band = WCDMA1700

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH
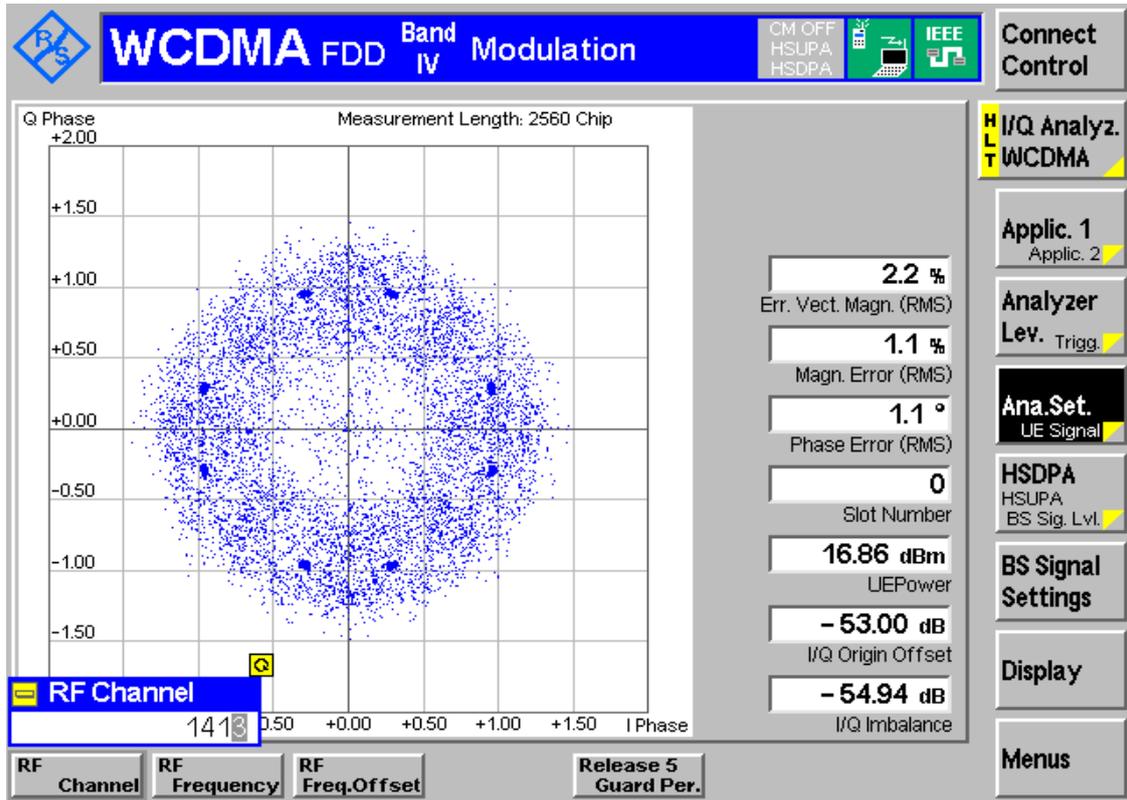
3.3 For LTE

3.3.1 Test Band = BAND4

3.3.1.1 Test Mode = LTE/TM1

3.3.1.1.1 Test Bandwidth = 1.4

3.3.1.1.1.1 Test Channel = MCH

3.3.1.1.1.1.1 Test RB = RB6#0
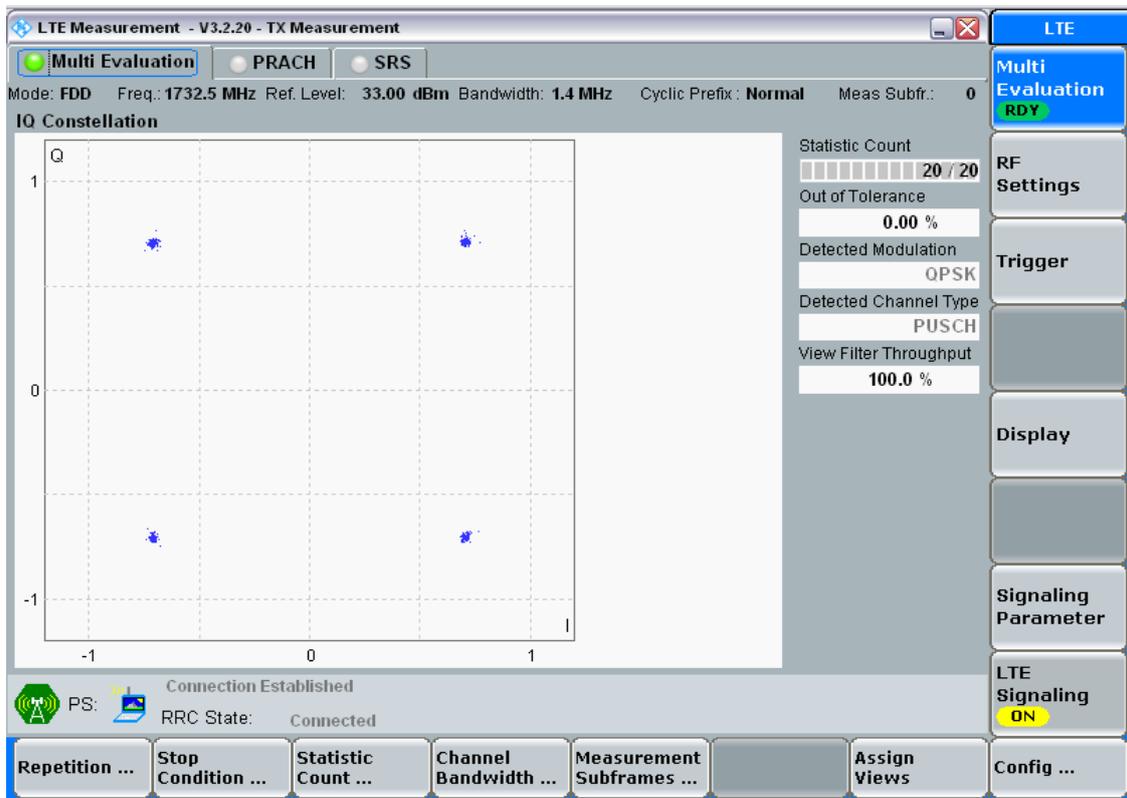
3.3.1.1.2 Test Bandwidth = 3

3.3.1.1.2.1 Test Channel = MCH

3.3.1.1.2.1.1 Test RB = RB15#0
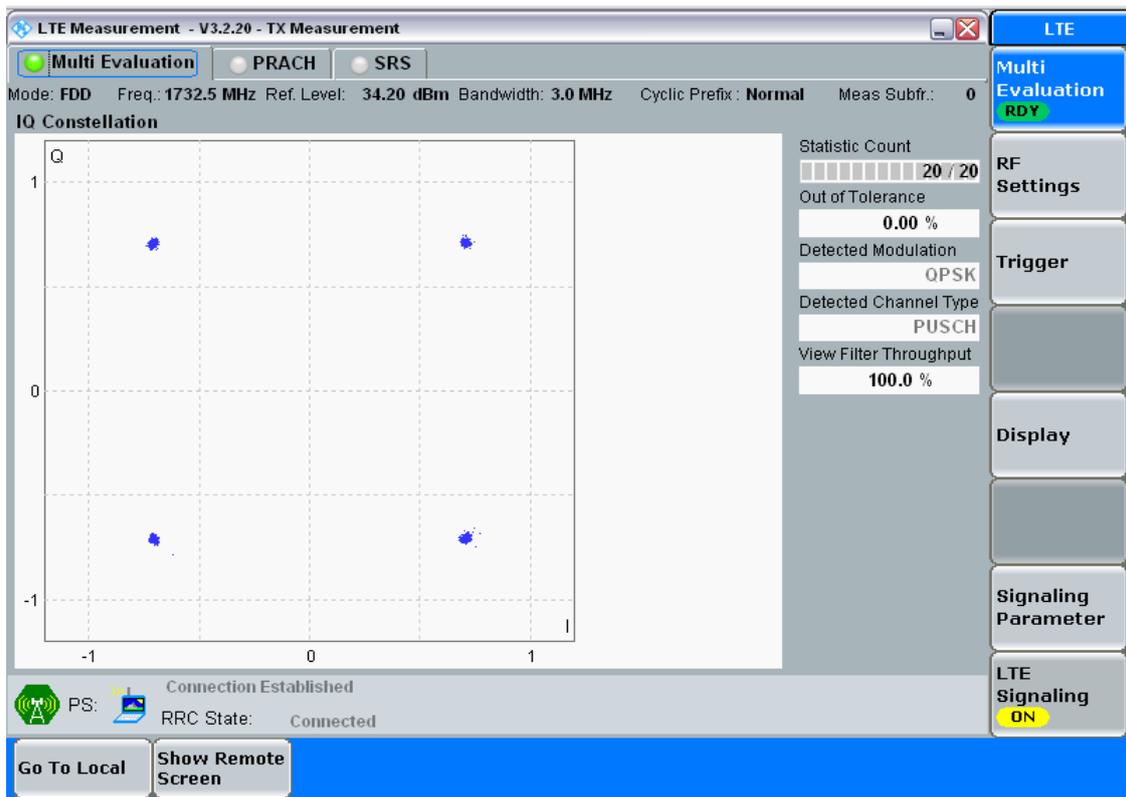
3.3.1.1.3 Test Bandwidth = 5

3.3.1.1.3.1 Test Channel = MCH

3.3.1.1.3.1.1 Test RB = RB25#0
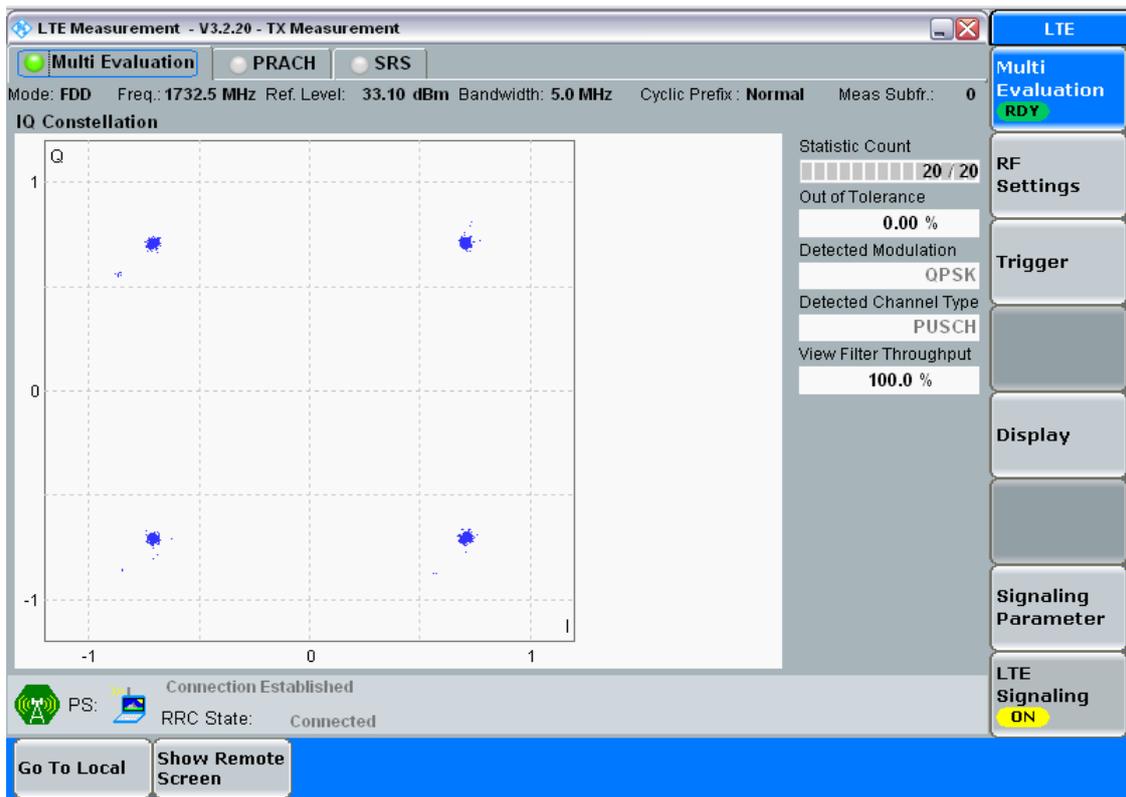
3.3.1.1.4 Test Bandwidth = 10

3.3.1.1.4.1 Test Channel = MCH

3.3.1.1.4.1.1 Test RB = RB50#0
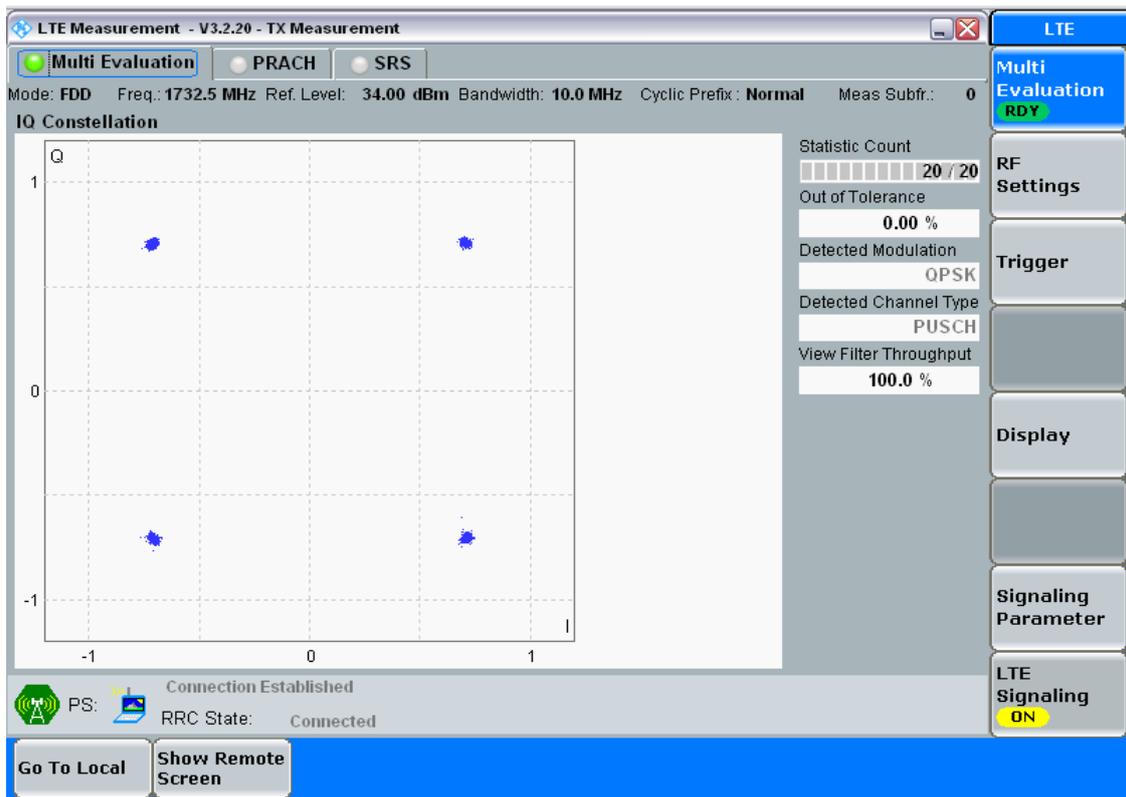
3.3.1.1.5 Test Bandwidth = 15

3.3.1.1.5.1 Test Channel = MCH

3.3.1.1.5.1.1 Test RB = RB75#0
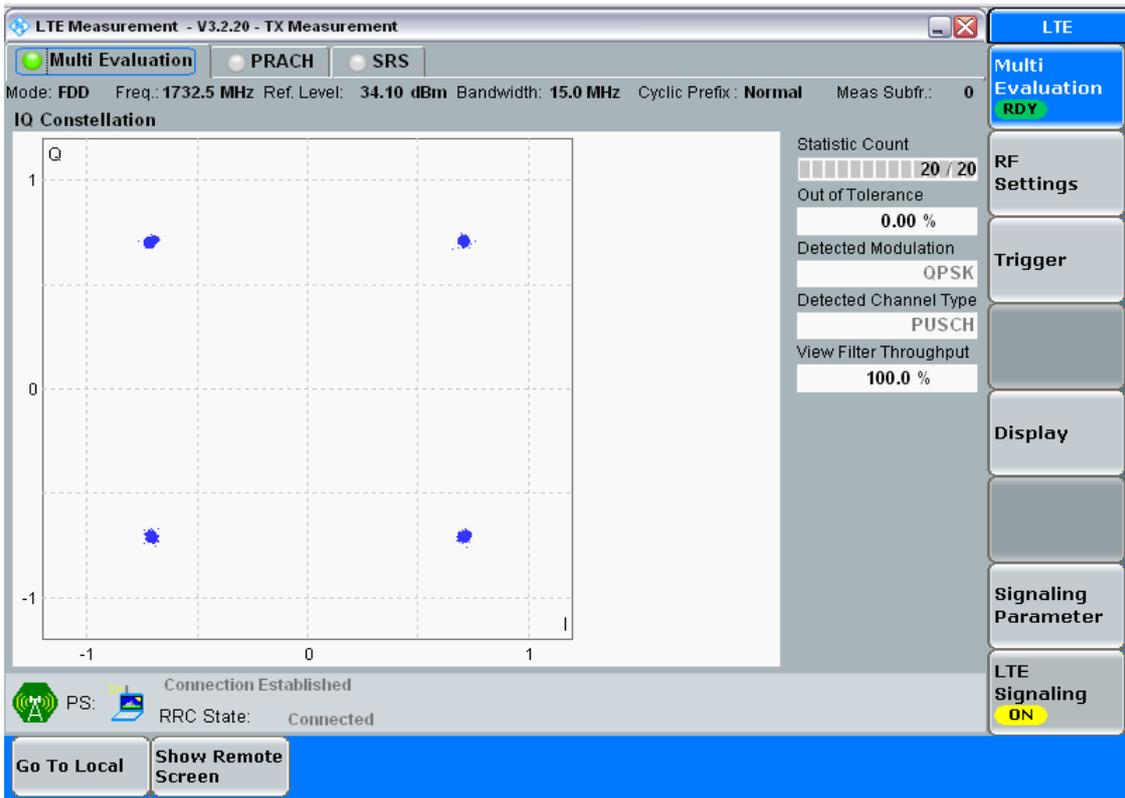
3.3.1.1.6 Test Bandwidth = 20

3.3.1.1.6.1 Test Channel = MCH

3.3.1.1.6.1.1 Test RB = RB100#0
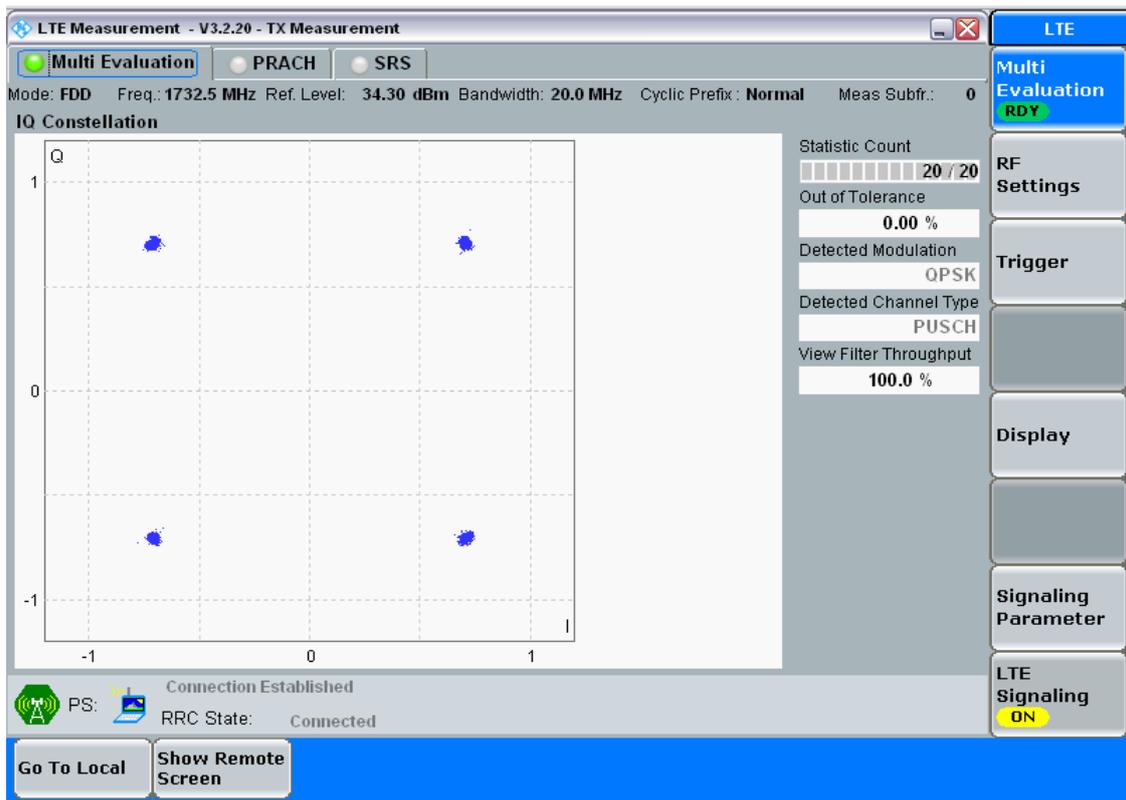
3.3.1.2 Test Mode = LTE/TM2

3.3.1.2.1 Test Bandwidth = 1.4

3.3.1.2.1.1 Test Channel = MCH

3.3.1.2.1.1.1 Test RB = RB6#0
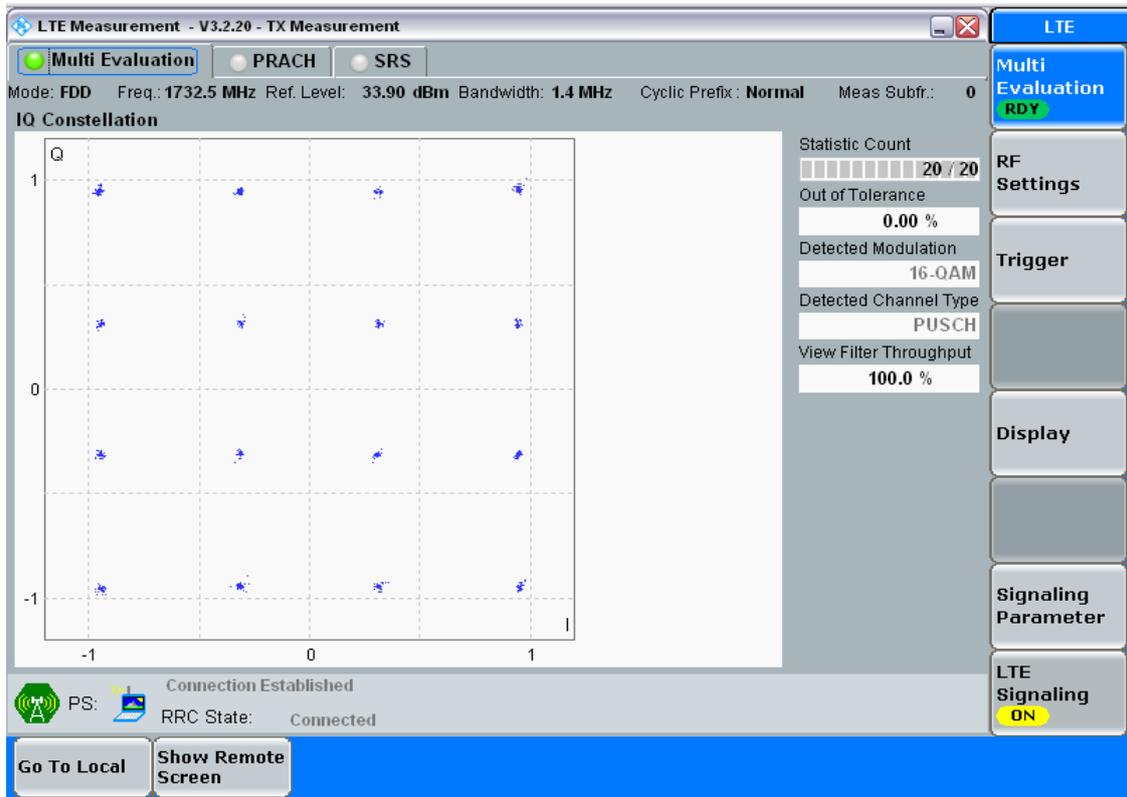
3.3.1.2.2 Test Bandwidth = 3

3.3.1.2.2.1 Test Channel = MCH

3.3.1.2.2.1.1 Test RB = RB15#0
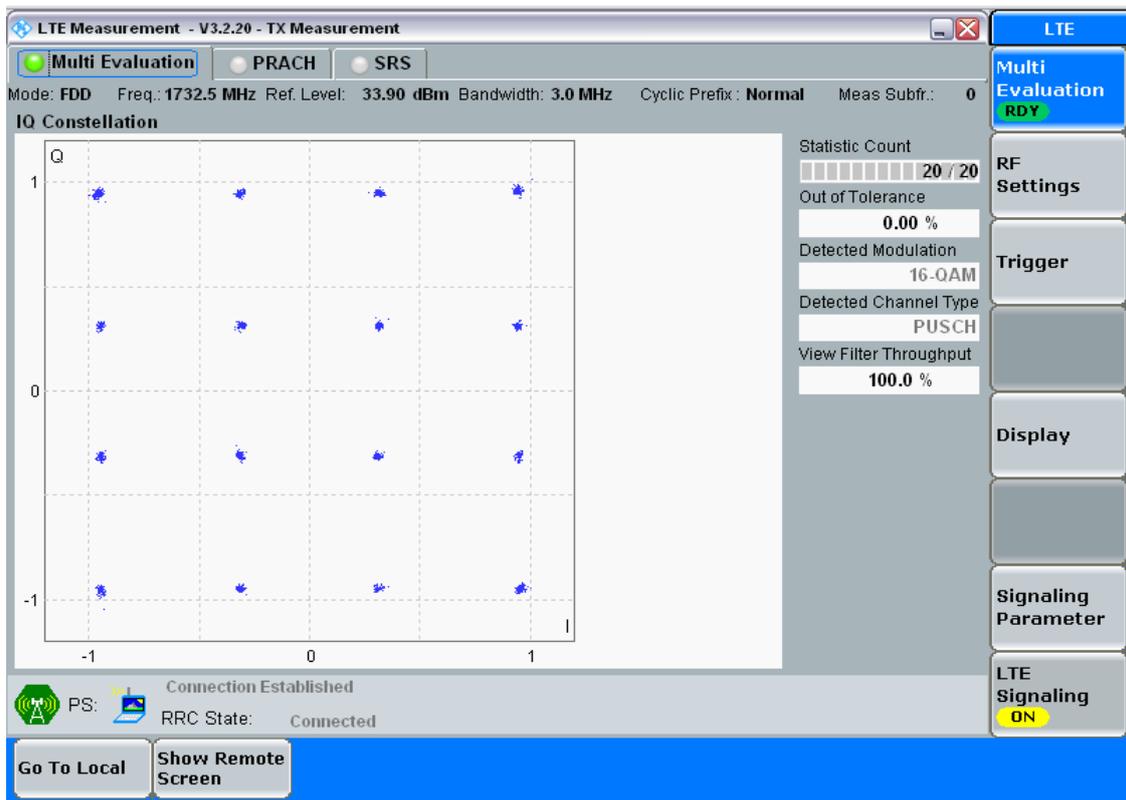
3.3.1.2.3 Test Bandwidth = 5

3.3.1.2.3.1 Test Channel = MCH

3.3.1.2.3.1.1 Test RB = RB25#0
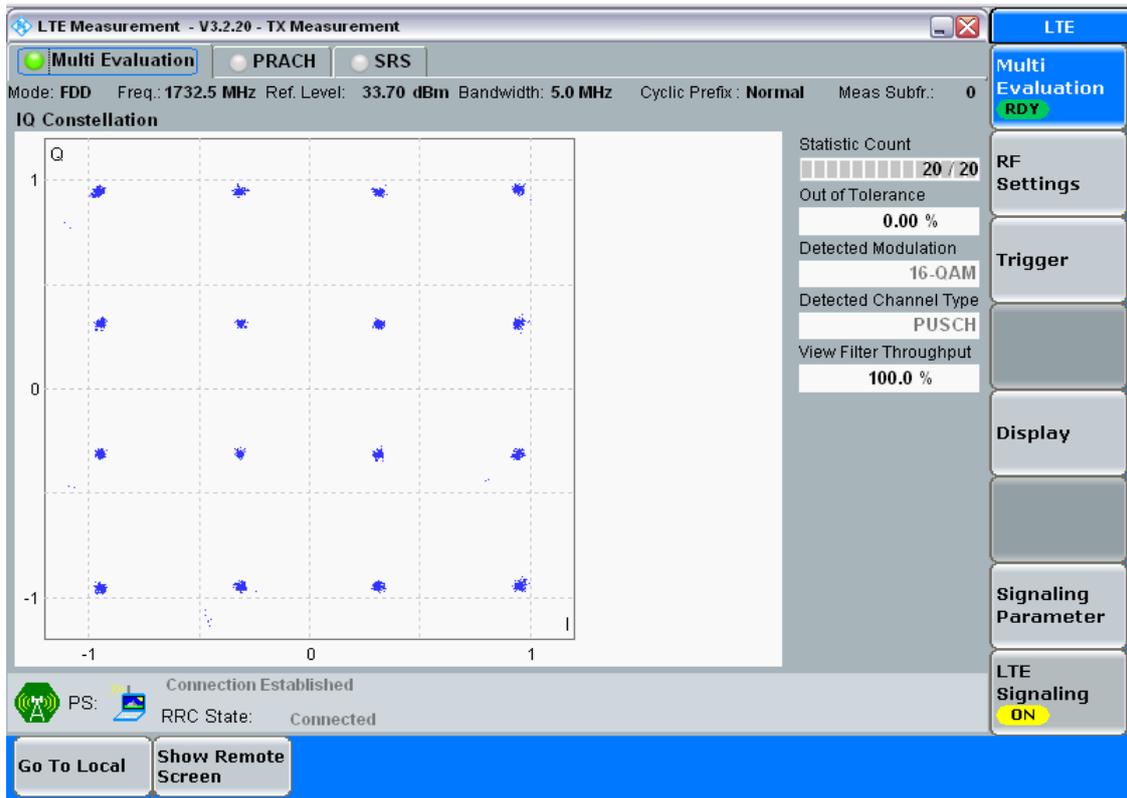
3.3.1.2.4 Test Bandwidth = 10

3.3.1.2.4.1 Test Channel = MCH

3.3.1.2.4.1.1 Test RB = RB50#0
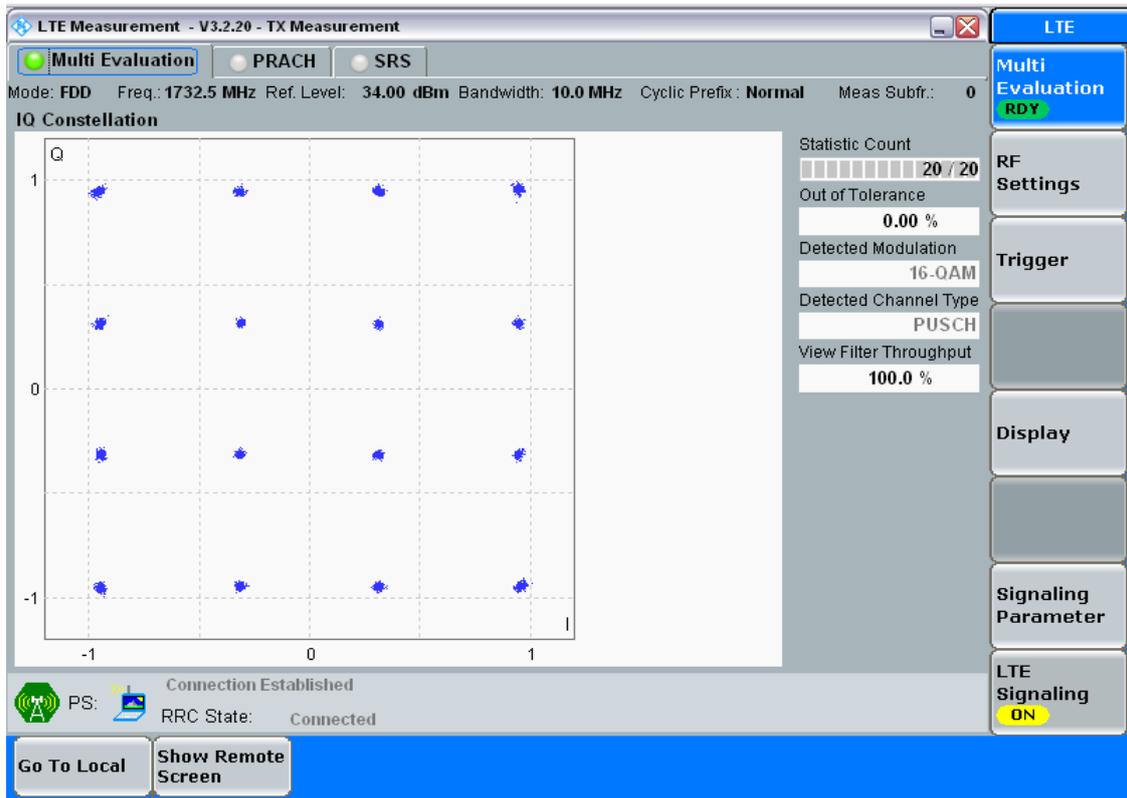
3.3.1.2.5 Test Bandwidth = 15

3.3.1.2.5.1 Test Channel = MCH

3.3.1.2.5.1.1 Test RB = RB75#0
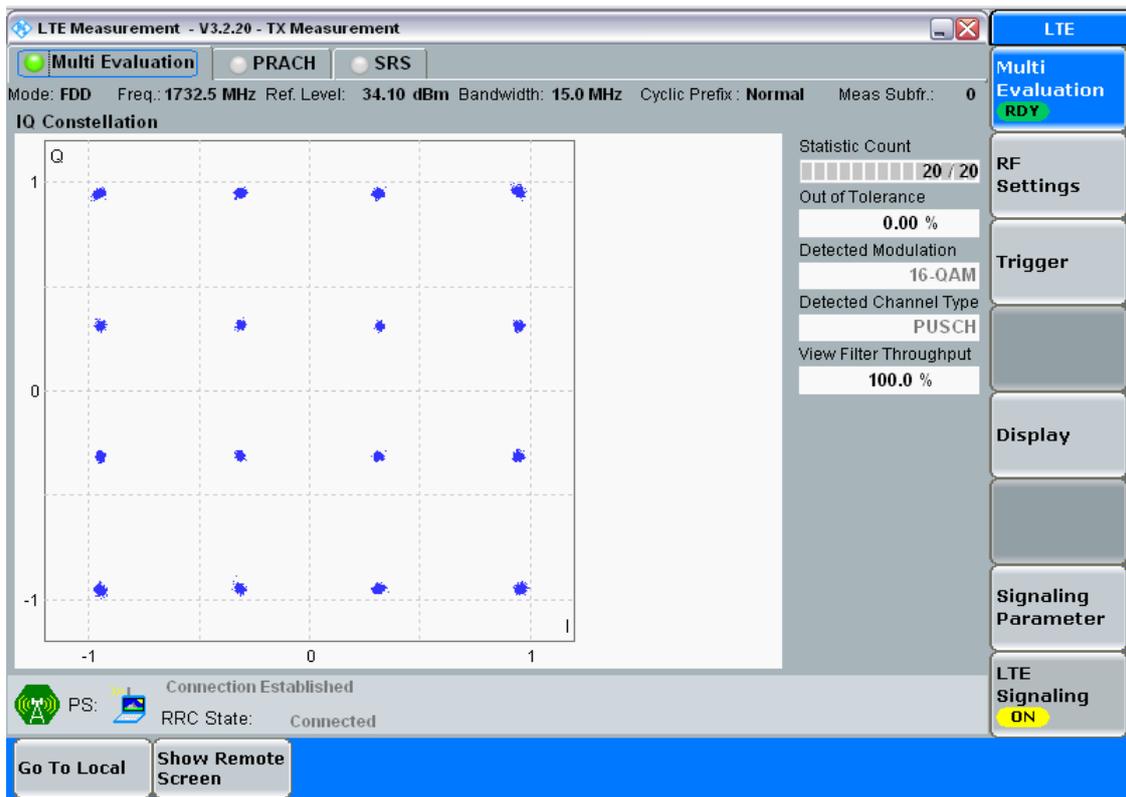
3.3.1.2.6 Test Bandwidth = 20

3.3.1.2.6.1 Test Channel = MCH

3.3.1.2.6.1.1 Test RB = RB100#0
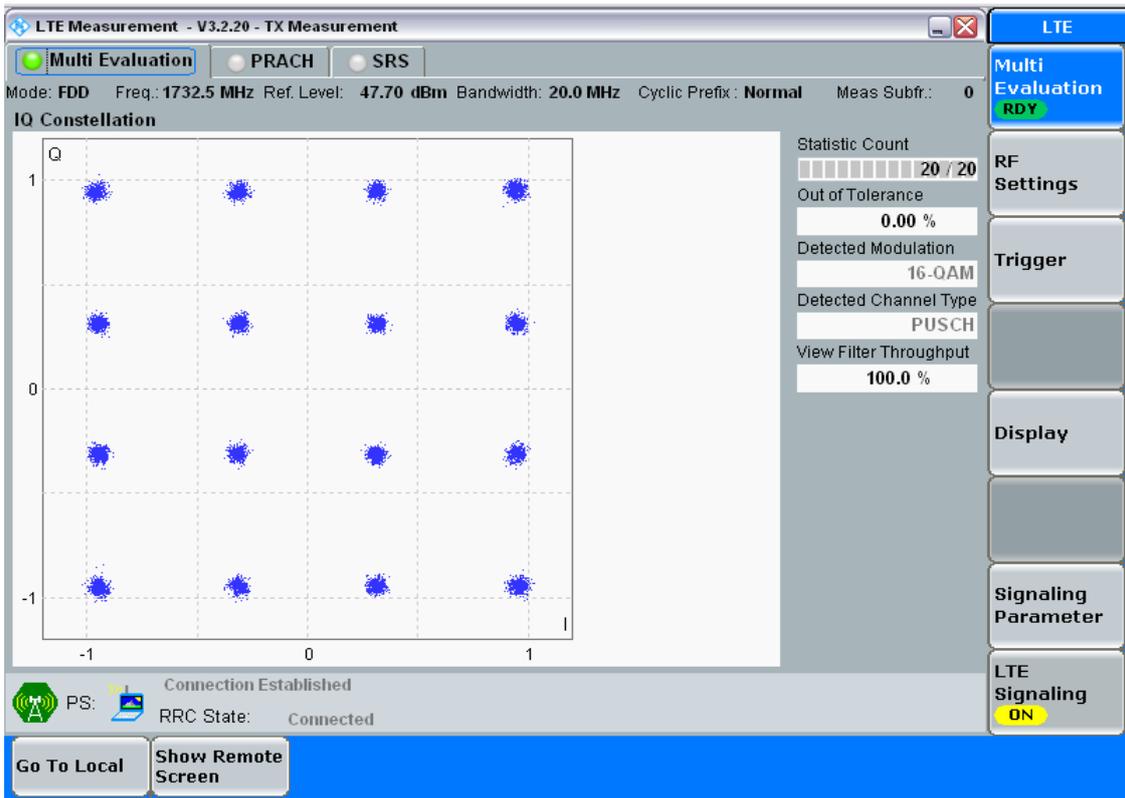
4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	245.16	316.66	Pass
		MCH	240.39	315.33	Pass
		HCH	243.43	307.49	Pass
	GSM/TM2	LCH	248.27	314.50	Pass
		MCH	250.81	315.44	Pass
		HCH	248.58	325.27	Pass

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.16	4.71	Pass
		MCH	4.17	4.72	Pass
		HCH	4.15	4.73	Pass
WCDMA1700	UMTS/TM1	LCH	4.16	4.72	Pass
		MCH	4.16	4.72	Pass
		HCH	4.16	4.74	Pass

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND4	LTE/TM1	1.4	LCH	RB6#0	1.09	1.22	Pass
			MCH	RB6#0	1.09	1.22	Pass
			HCH	RB6#0	1.09	1.23	Pass
		3	LCH	RB15#0	2.70	2.90	Pass
			MCH	RB15#0	2.71	2.93	Pass
			HCH	RB15#0	2.70	2.93	Pass
		5	LCH	RB25#0	4.49	4.84	Pass
			MCH	RB25#0	4.49	4.86	Pass
			HCH	RB25#0	4.49	4.85	Pass
		10	LCH	RB50#0	8.99	9.66	Pass
			MCH	RB50#0	8.99	9.65	Pass
			HCH	RB50#0	9.00	9.61	Pass
		15	LCH	RB75#0	13.47	14.35	Pass
			MCH	RB75#0	13.48	14.43	Pass
			HCH	RB75#0	13.49	14.39	Pass
		20	LCH	RB100#0	17.99	19.10	Pass
			MCH	RB100#0	18.01	19.16	Pass
			HCH	RB100#0	17.98	19.12	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.23	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.23	Pass
		3	LCH	RB15#0	2.70	2.92	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.71	2.94	Pass
		5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.49	4.88	Pass
			HCH	RB25#0	4.50	4.88	Pass
		10	LCH	RB50#0	9.01	9.68	Pass
			MCH	RB50#0	9.00	9.72	Pass
			HCH	RB50#0	9.00	9.65	Pass
		15	LCH	RB75#0	13.49	14.48	Pass
			MCH	RB75#0	13.50	14.40	Pass
			HCH	RB75#0	13.48	14.42	Pass
		20	LCH	RB100#0	17.99	19.08	Pass
			MCH	RB100#0	18.00	19.08	Pass
			HCH	RB100#0	17.99	19.18	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
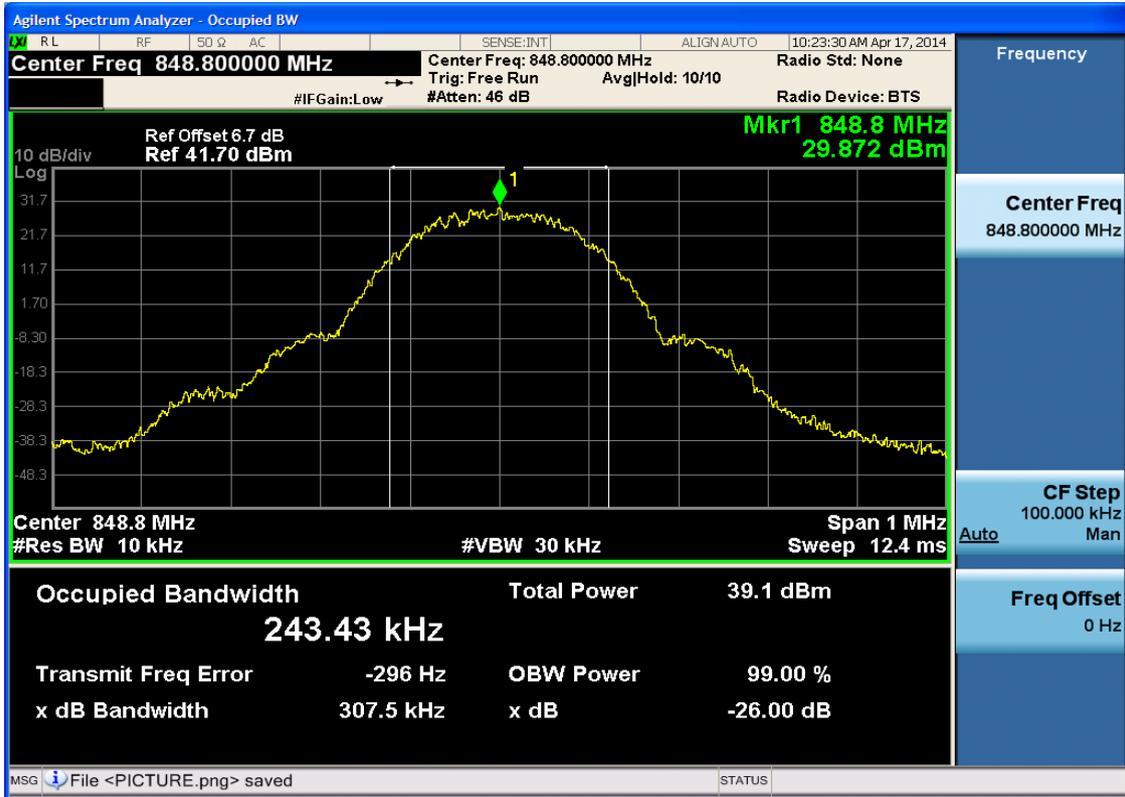
4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH
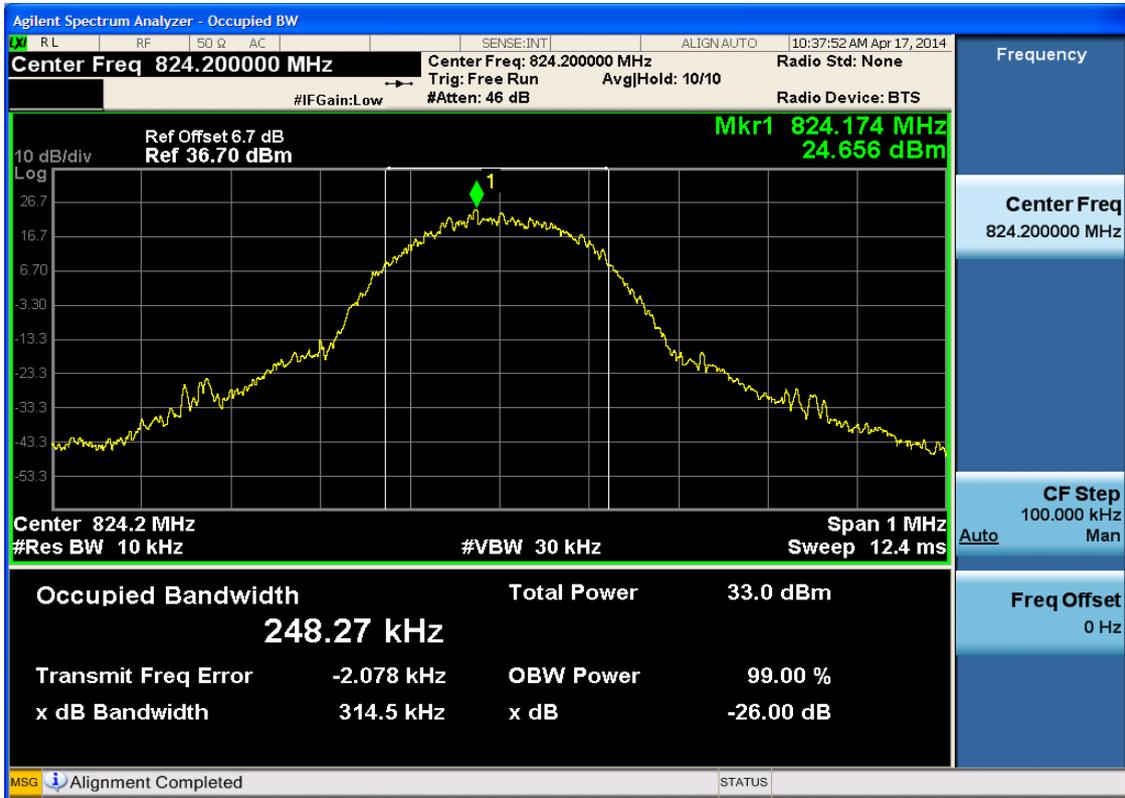
4.1.1.2.2 Test Channel = MCH
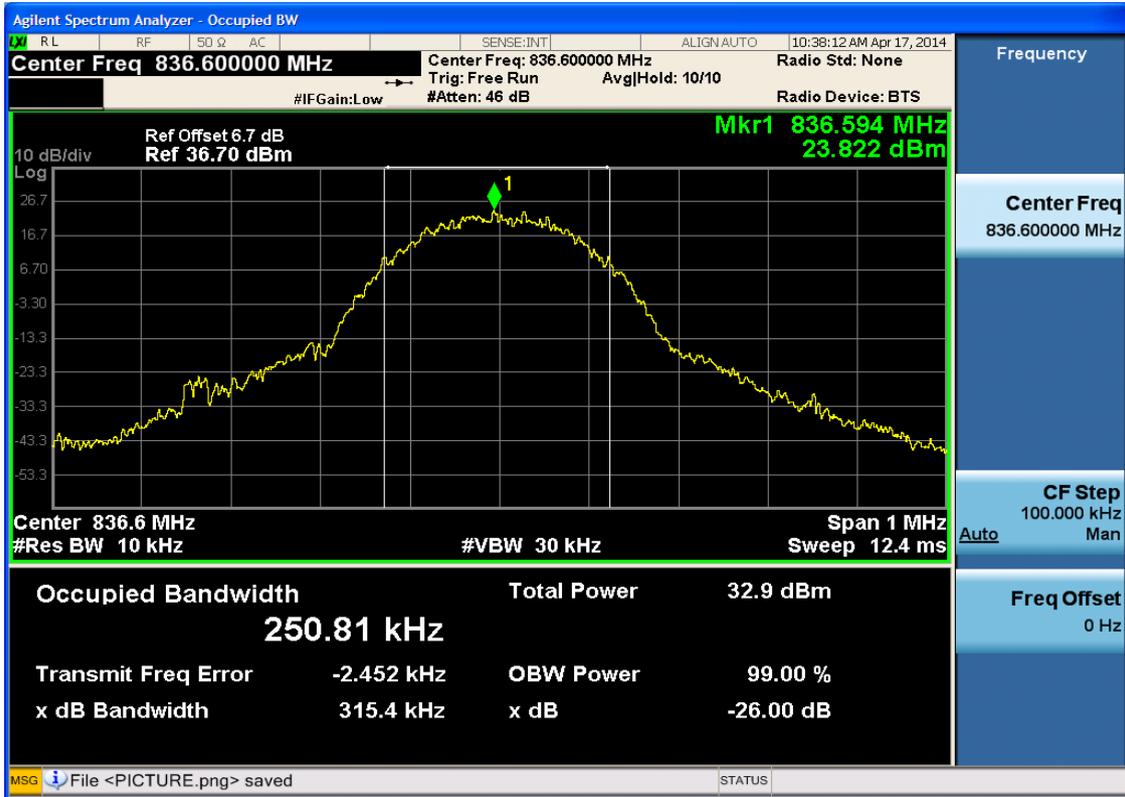
4.1.1.2.3 Test Channel = HCH

4.2 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

Agilent Spectrum Analyzer - Occupied BW			
R L	RF	50 Ω	AC	SENSE:INT	ALIGN AUTO	10:49:43 AM Apr 17, 2014

Center Freq 836.400000 MHz

Center Freq: 836.400000 MHz   Radio Std: None
Trig: Free Run   Avg|Hold: 10/10
#Atten: 46 dB   Radio Device: BTS
#IFGain:Low

Ref Offset 6.7 dB
Ref 36.70 dBm
10 dB/div
Log

Mkr1 837 MHz
18.948 dBm

Center 836.4 MHz   Span 10 MHz
#Res BW 100 kHz   #VBW 300 kHz   Sweep 1.267 ms

Occupied Bandwidth		Total Power	32.2 dBm
4.1675 MHz			
Transmit Freq Error	1.374 kHz	OBW Power	99.00 %
x dB Bandwidth	4.722 MHz	x dB	-26.00 dB

MSG File <PICTURE.png> saved   STATUS

Frequency

Center Freq
836.400000 MHz

CF Step
1.000000 MHz
Auto   Man

Freq Offset
0 Hz

4.2.1.1.3 Test Channel = HCH

4.2.2 Test Band = WCDMA1700

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH
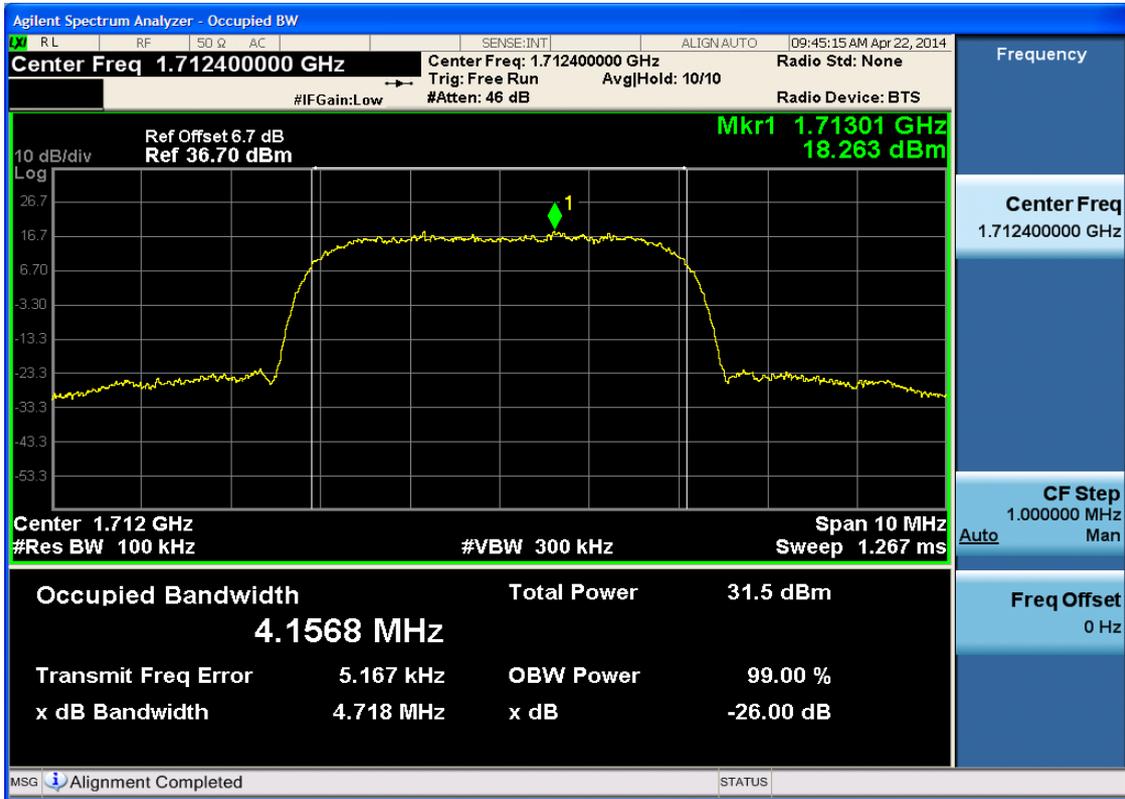
4.2.2.1.2 Test Channel = MCH
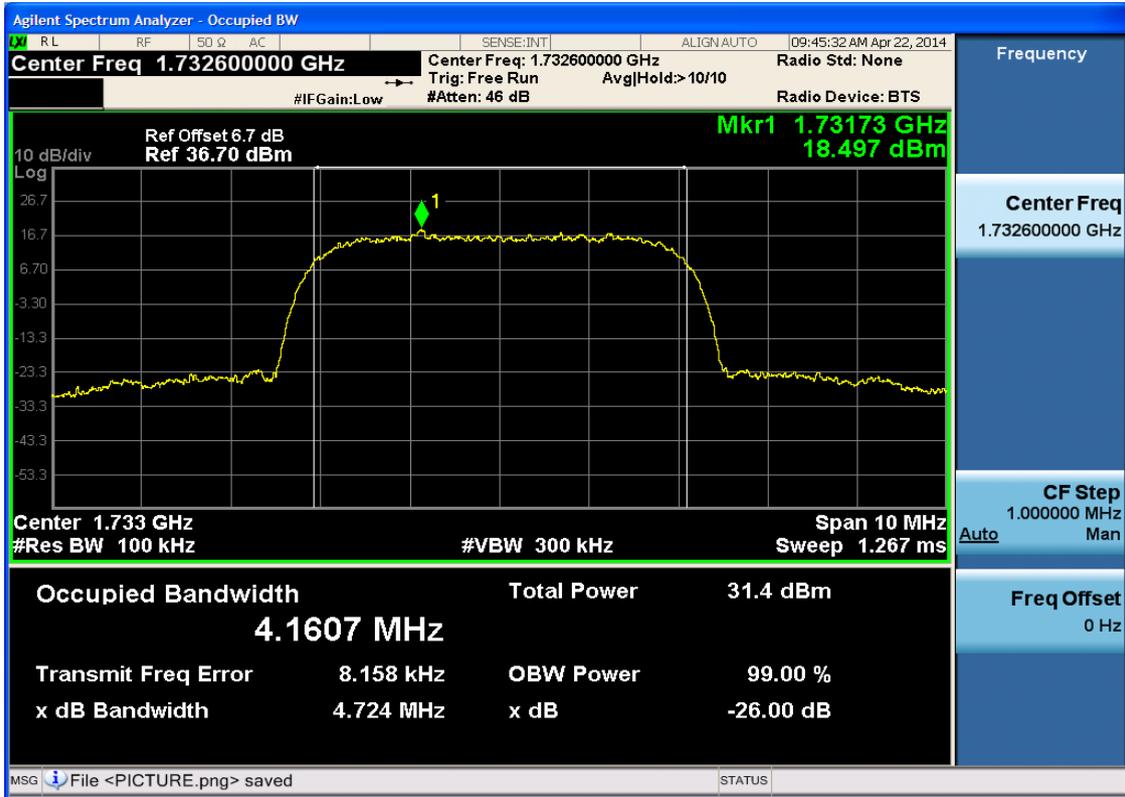
4.2.2.1.3 Test Channel = HCH
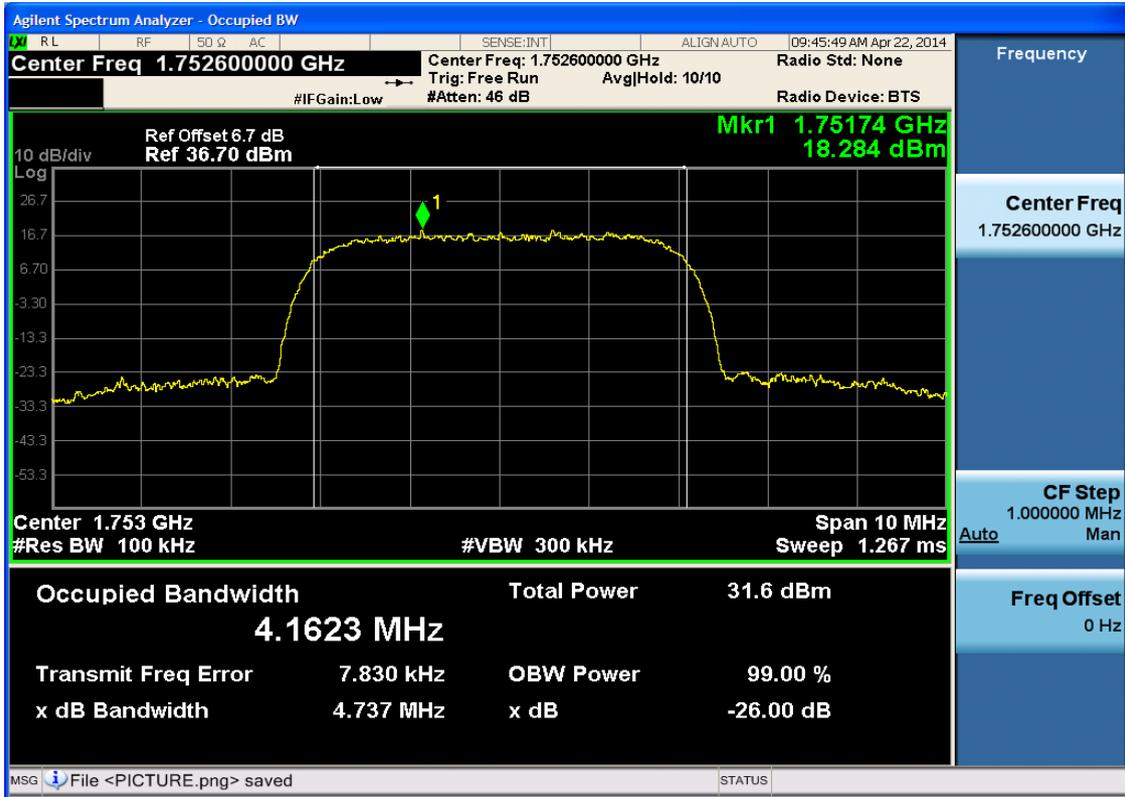
4.3 For LTE

4.3.1 Test Band = BAND4

4.3.1.1 Test Mode = LTE/TM1

4.3.1.1.1 Test Bandwidth = 1.4

4.3.1.1.1.1 Test Channel = LCH

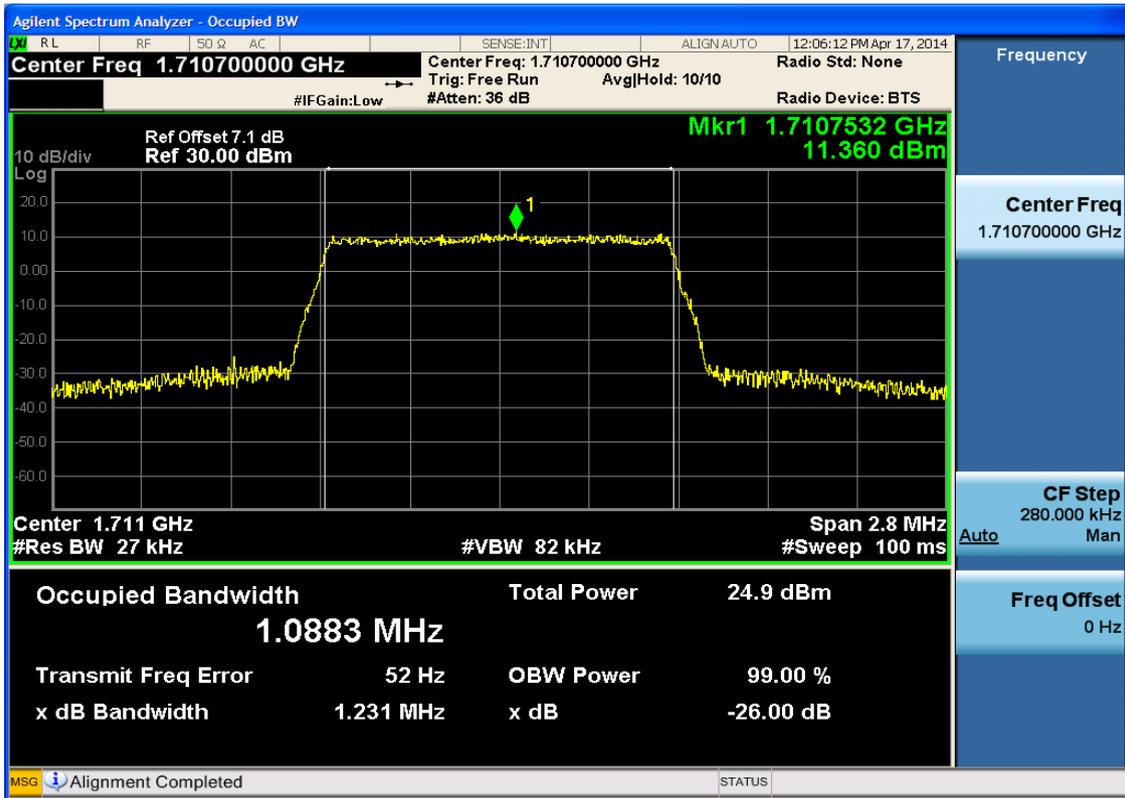**4.3.1.1.1.1.1 Test RB = RB6#0**
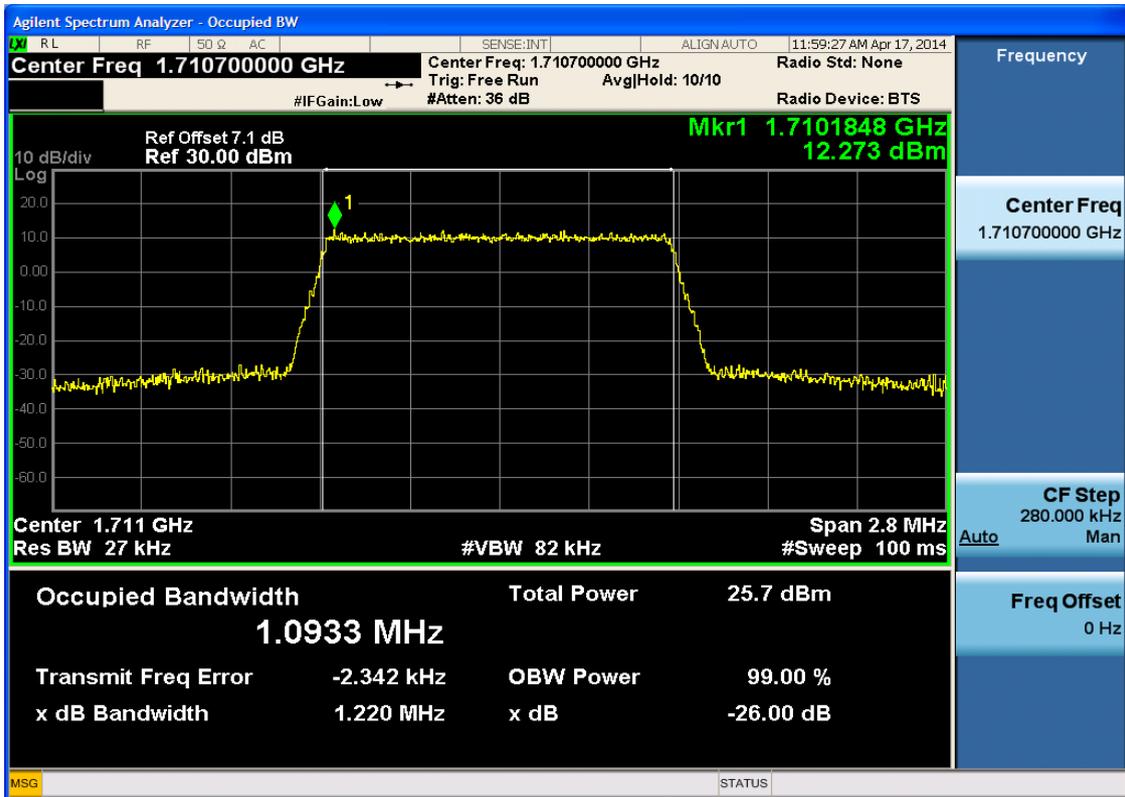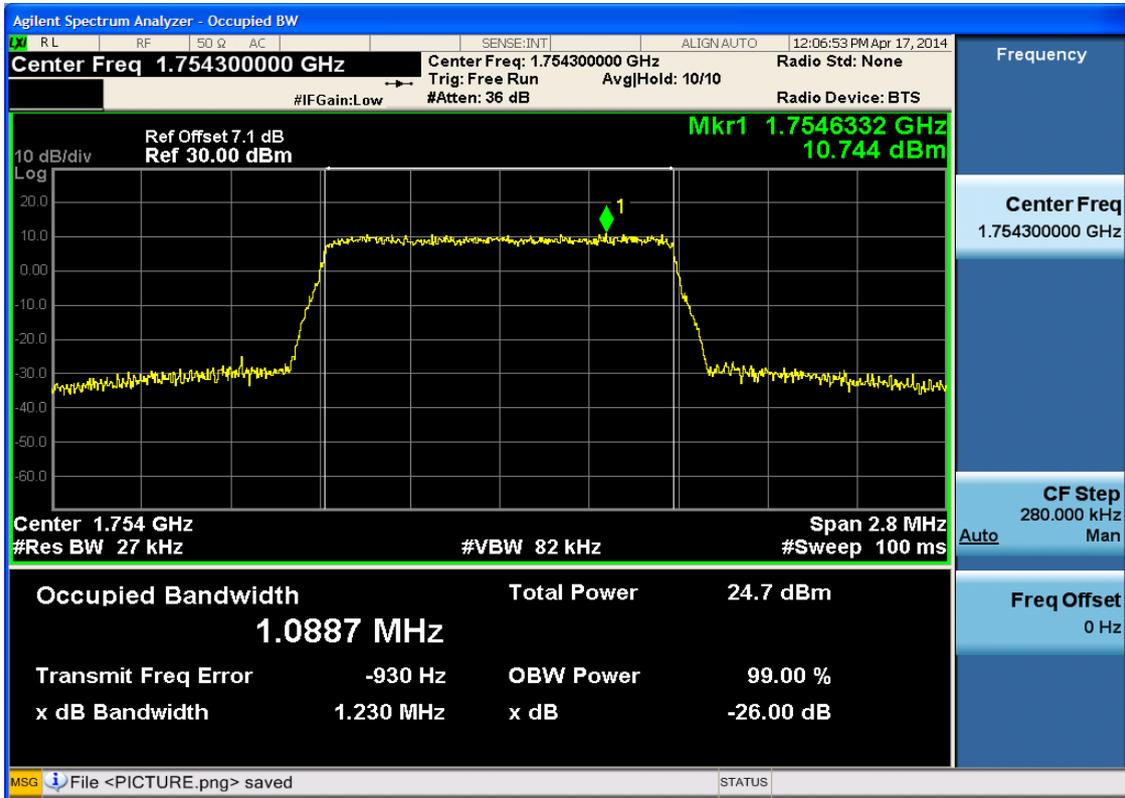
4.3.1.1.1.2 Test Channel = MCH

4.3.1.1.1.2.1 Test RB = RB6#0
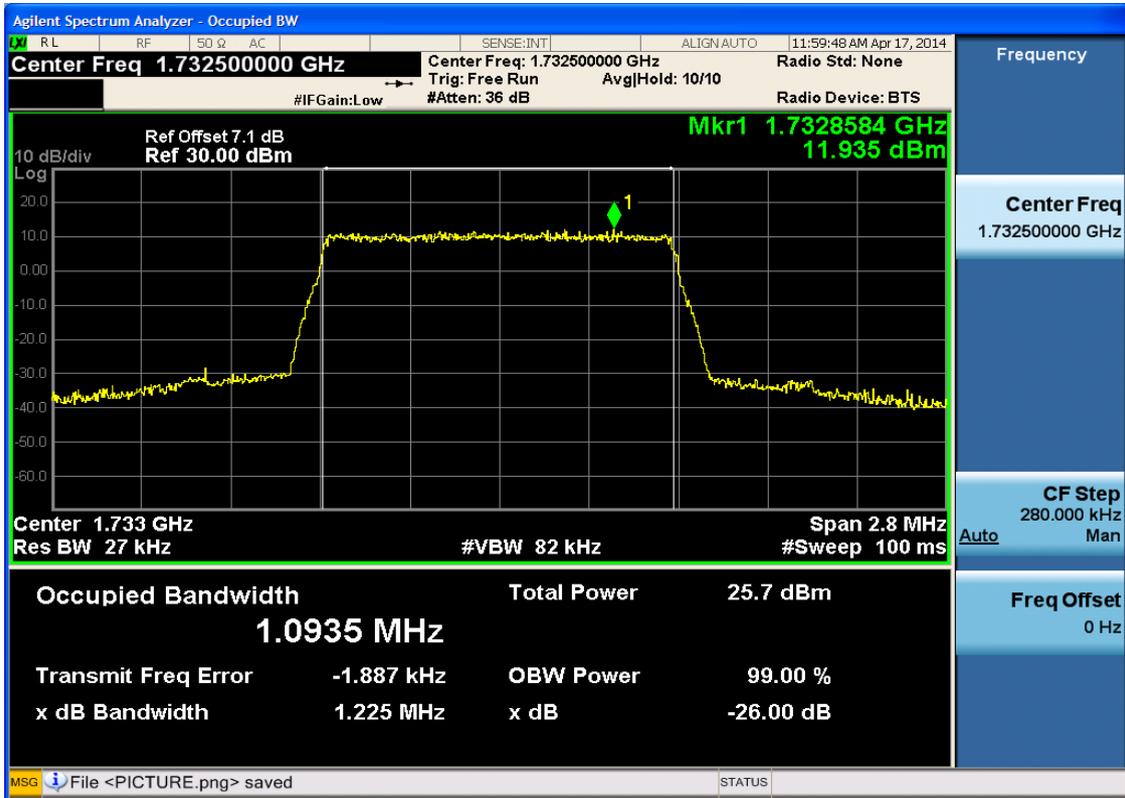
4.3.1.1.1.3 Test Channel = HCH

4.3.1.1.1.3.1 Test RB = RB6#0
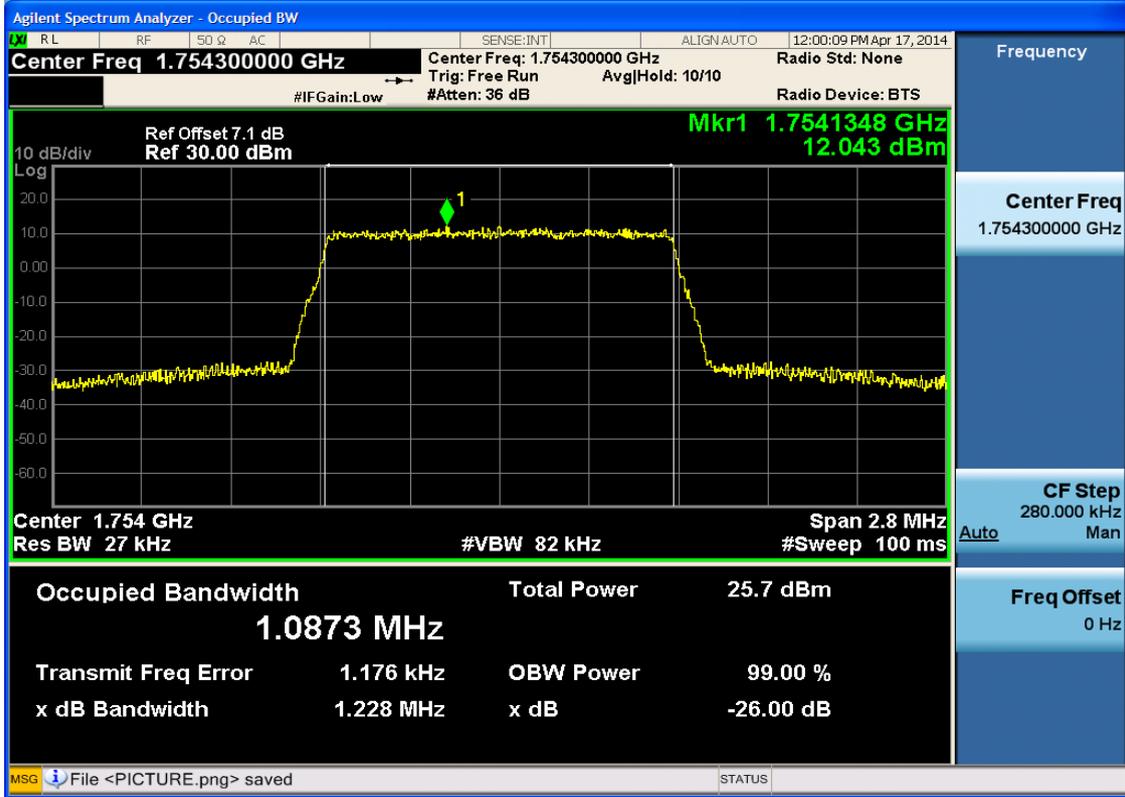
4.3.1.1.2 Test Bandwidth = 3
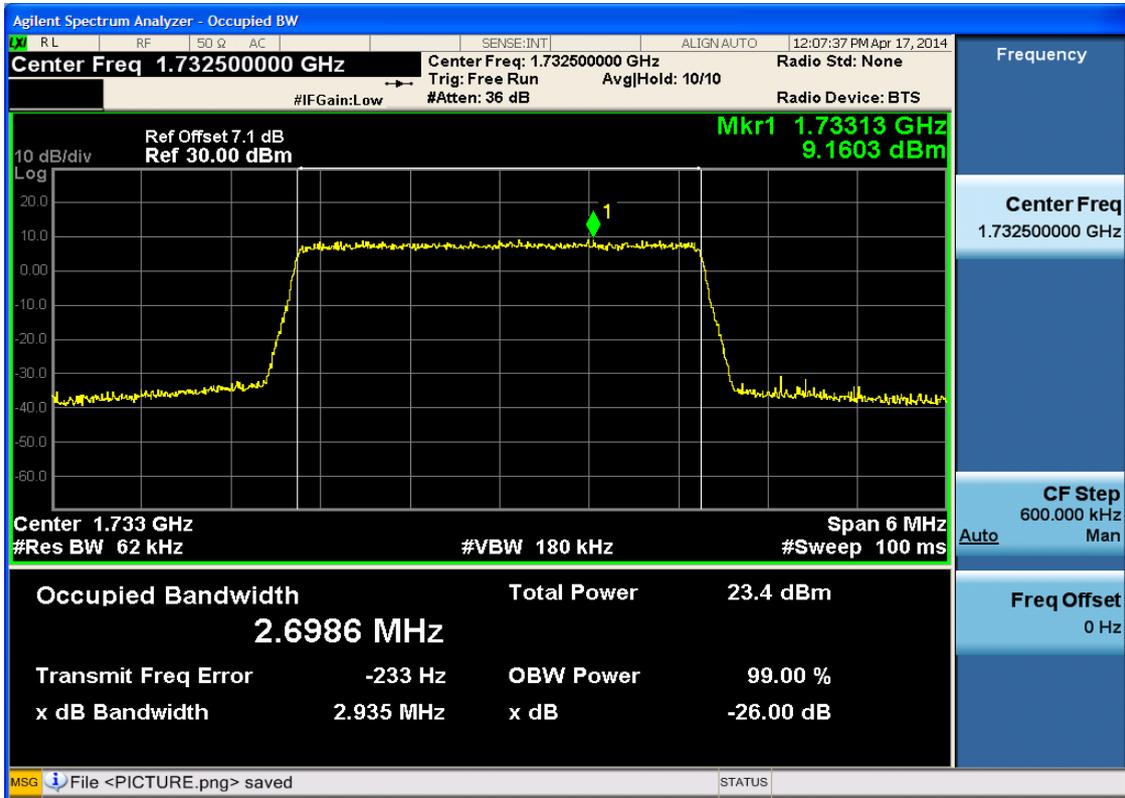
4.3.1.1.2.1 Test Channel = LCH

#### 4.3.1.1.2.1.1 Test RB = RB15#0
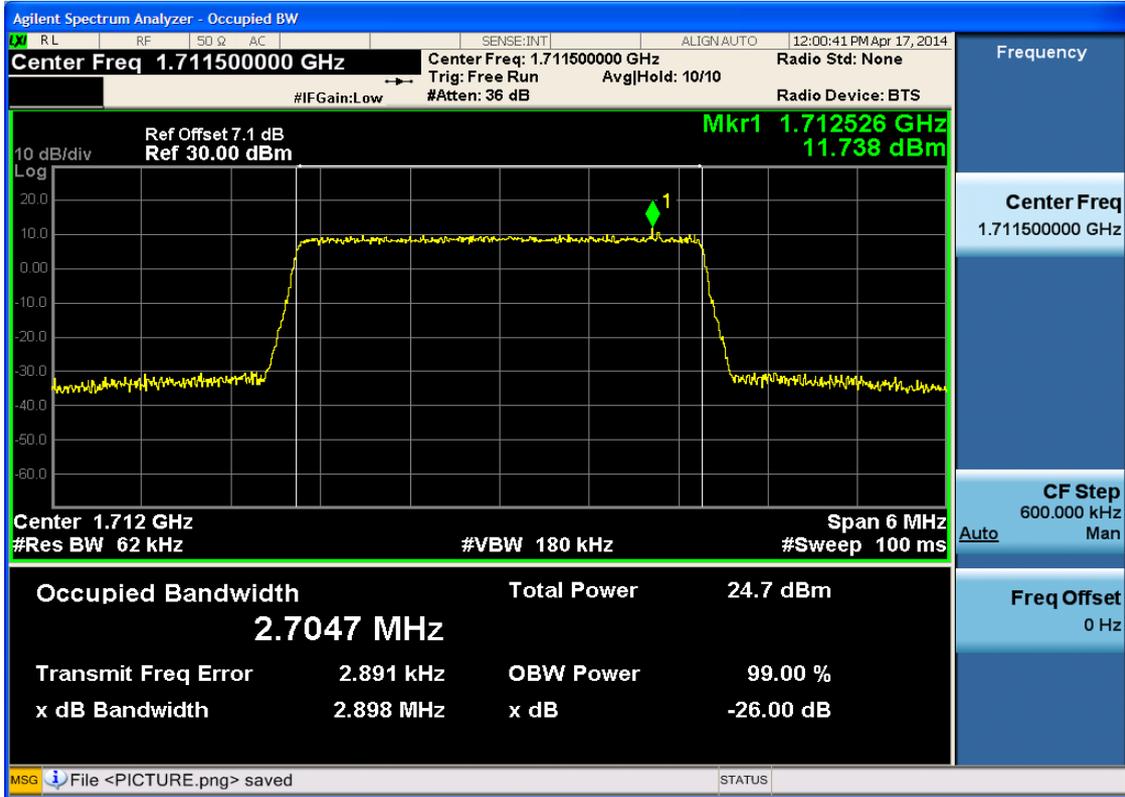
4.3.1.1.2.2 Test Channel = MCH

4.3.1.1.2.2.1 Test RB = RB15#0
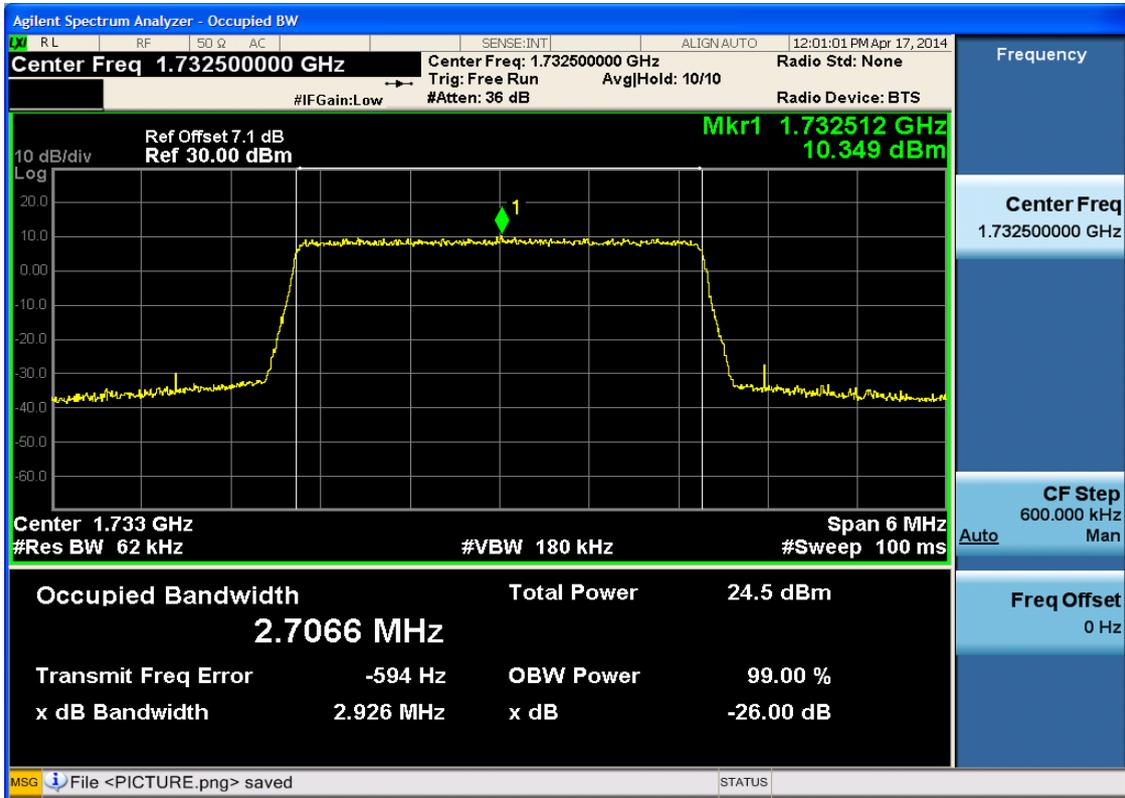
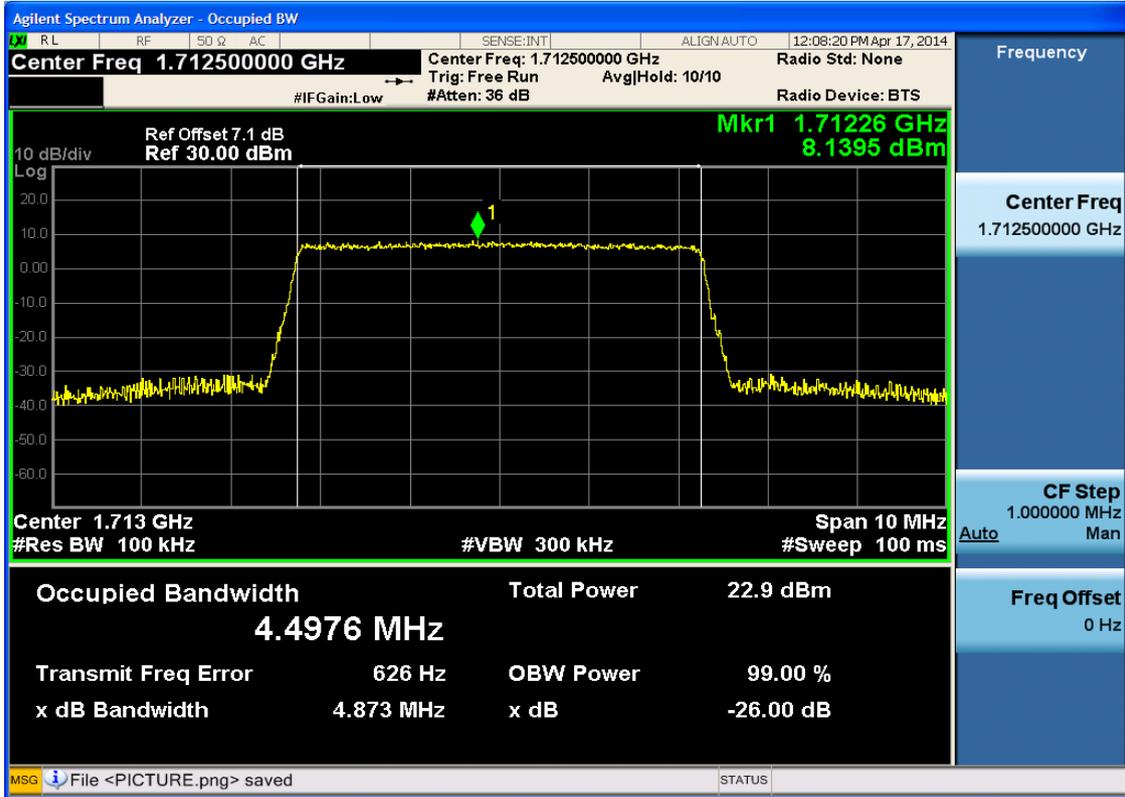## 4.3.1.1.2.3 Test Channel = HCH

4.3.1.1.2.3.1 Test RB = RB15#0
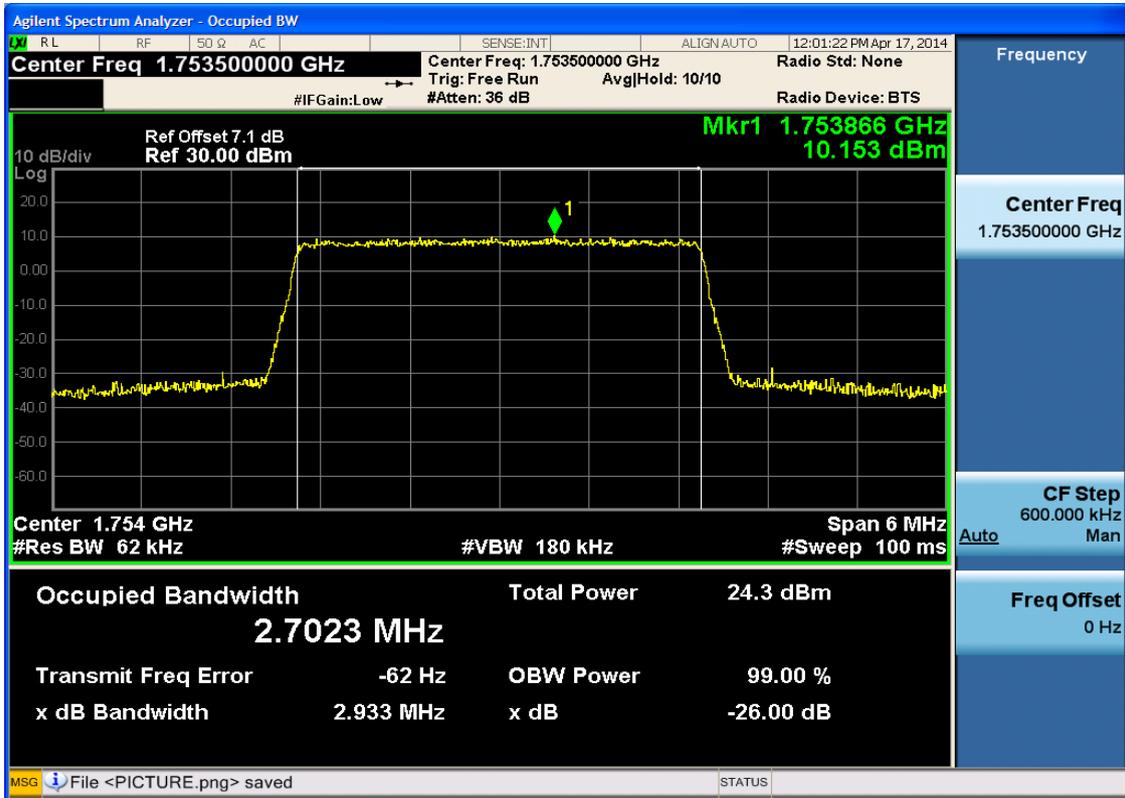
4.3.1.1.3 Test Bandwidth = 5

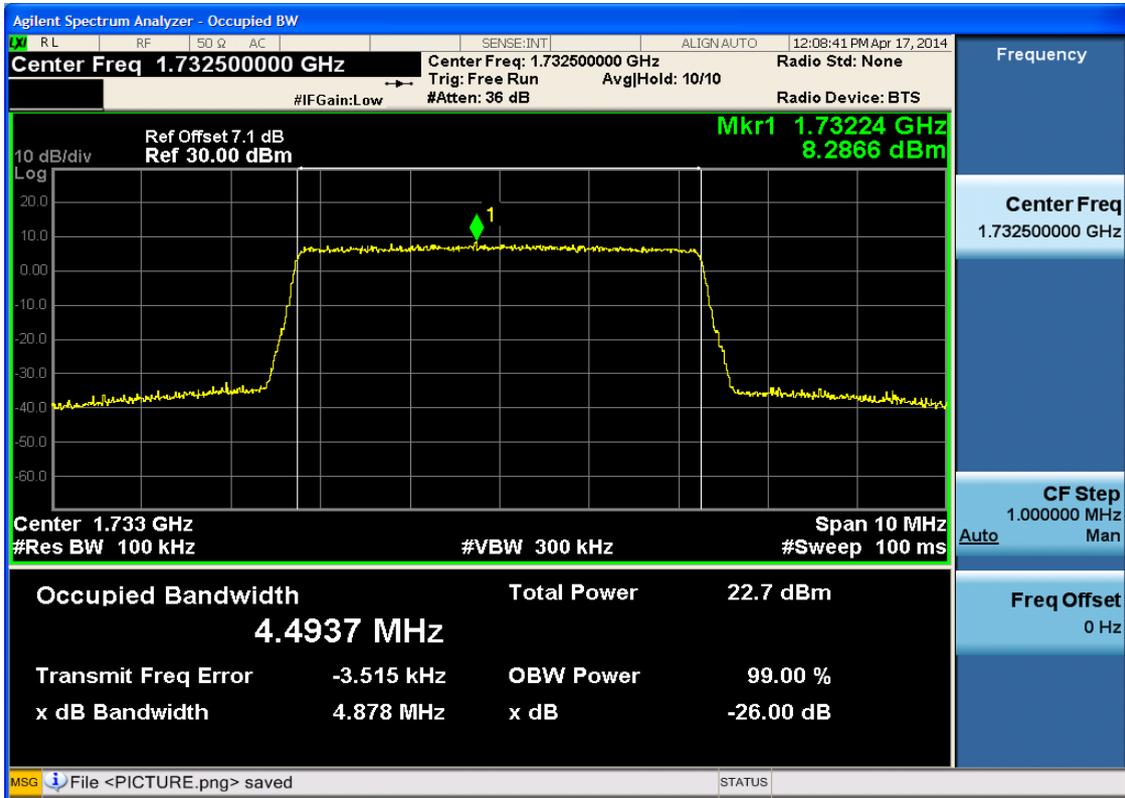### 4.3.1.1.3.1 Test Channel = LCH

4.3.1.1.3.1.1 Test RB = RB25#0
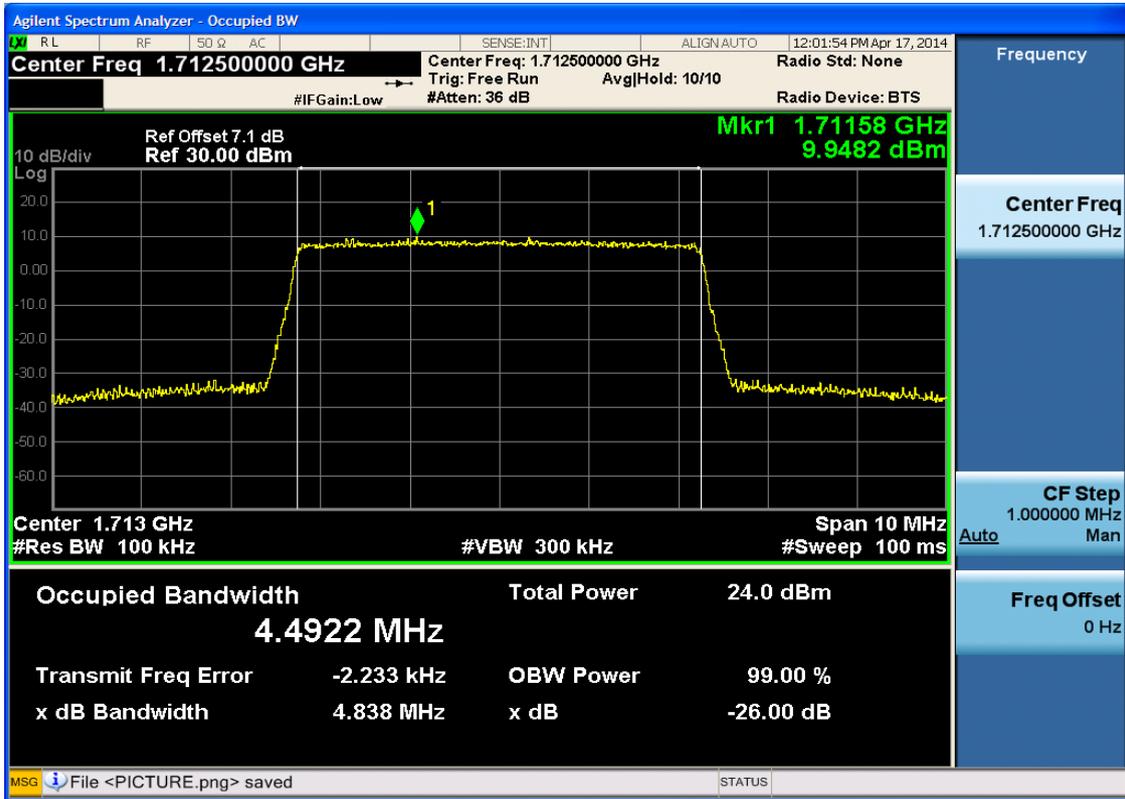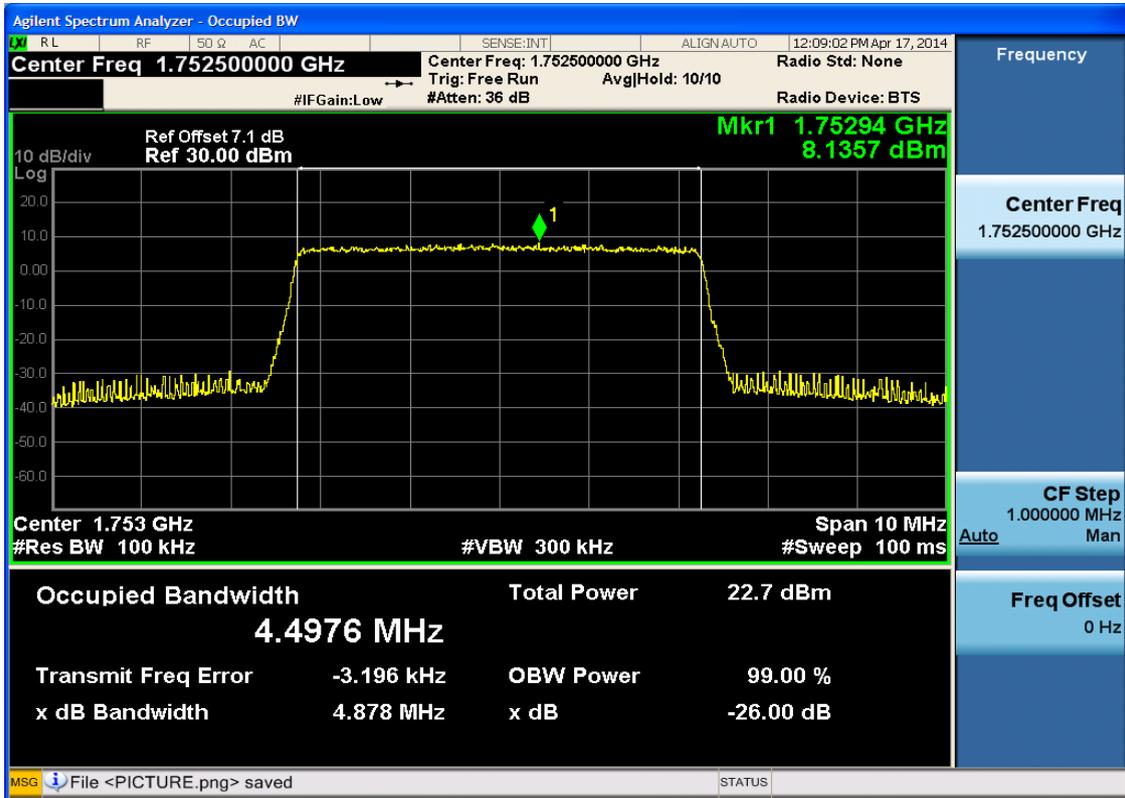
4.3.1.1.3.2 Test Channel = MCH

4.3.1.1.3.2.1 Test RB = RB25#0
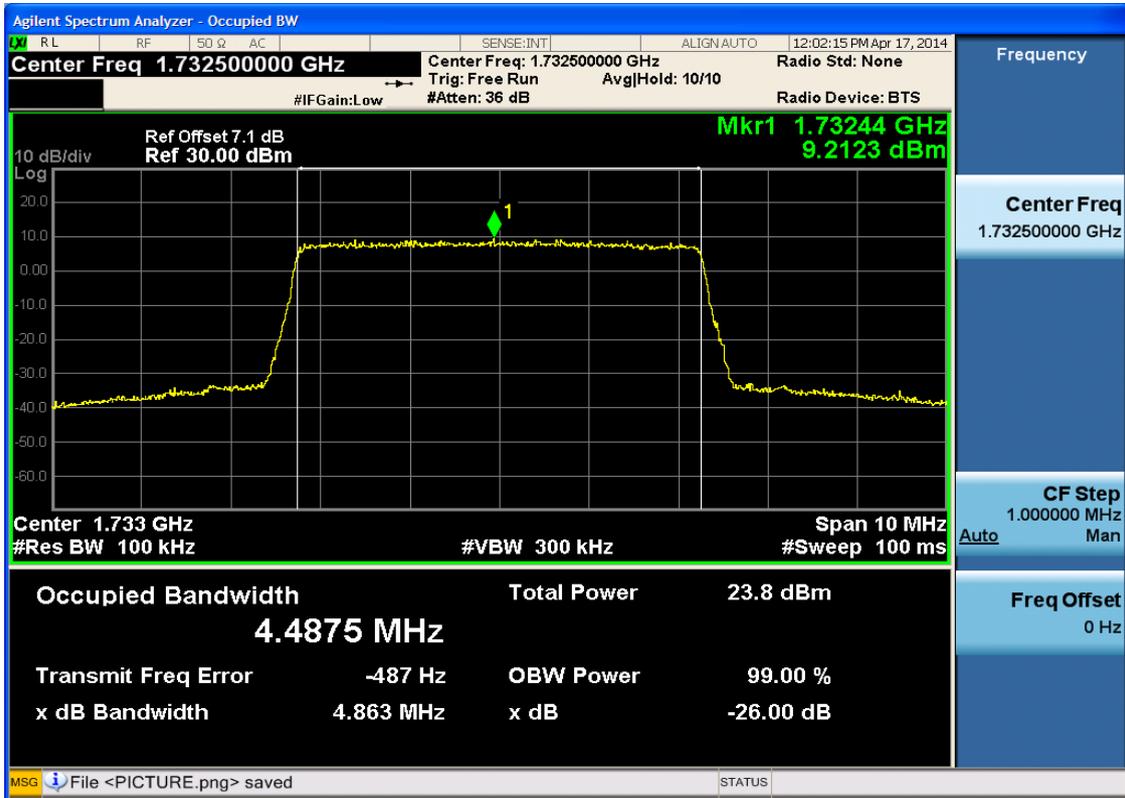
4.3.1.1.3.3 Test Channel = HCH

4.3.1.1.3.3.1 Test RB = RB25#0
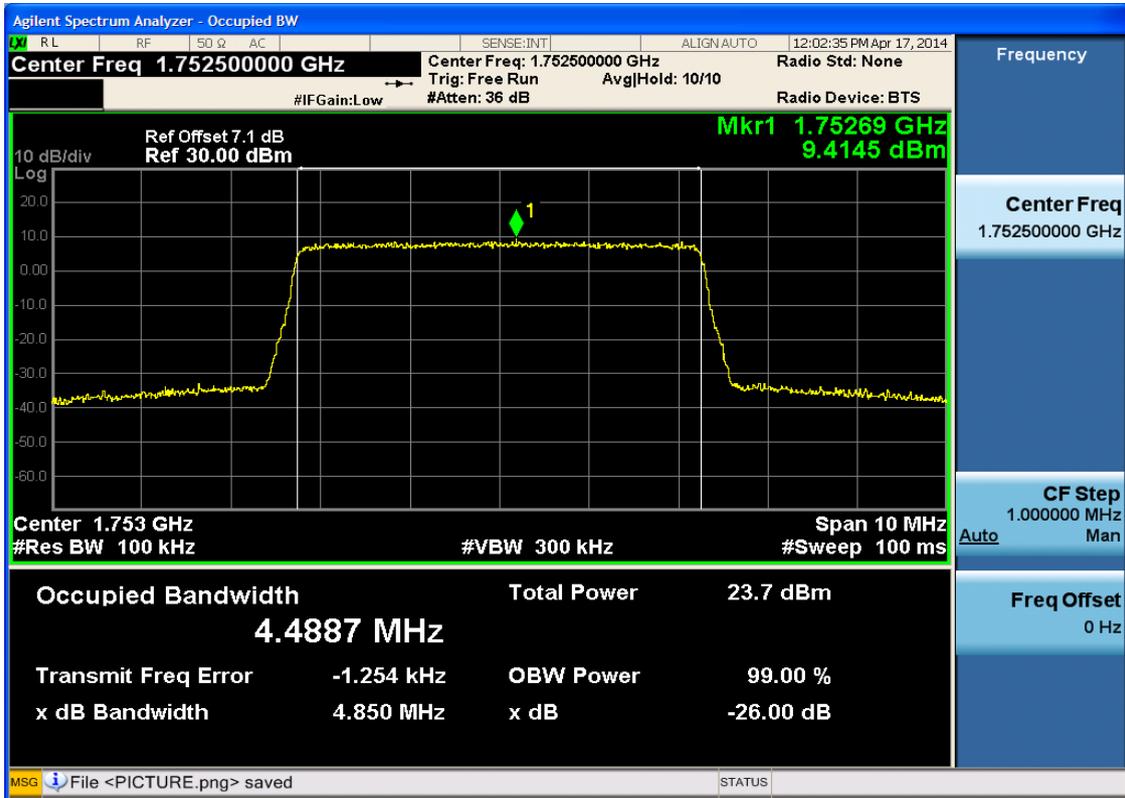
4.3.1.1.4 Test Bandwidth = 10

4.3.1.1.4.1 Test Channel = LCH

4.3.1.1.4.1.1 Test RB = RB50#0
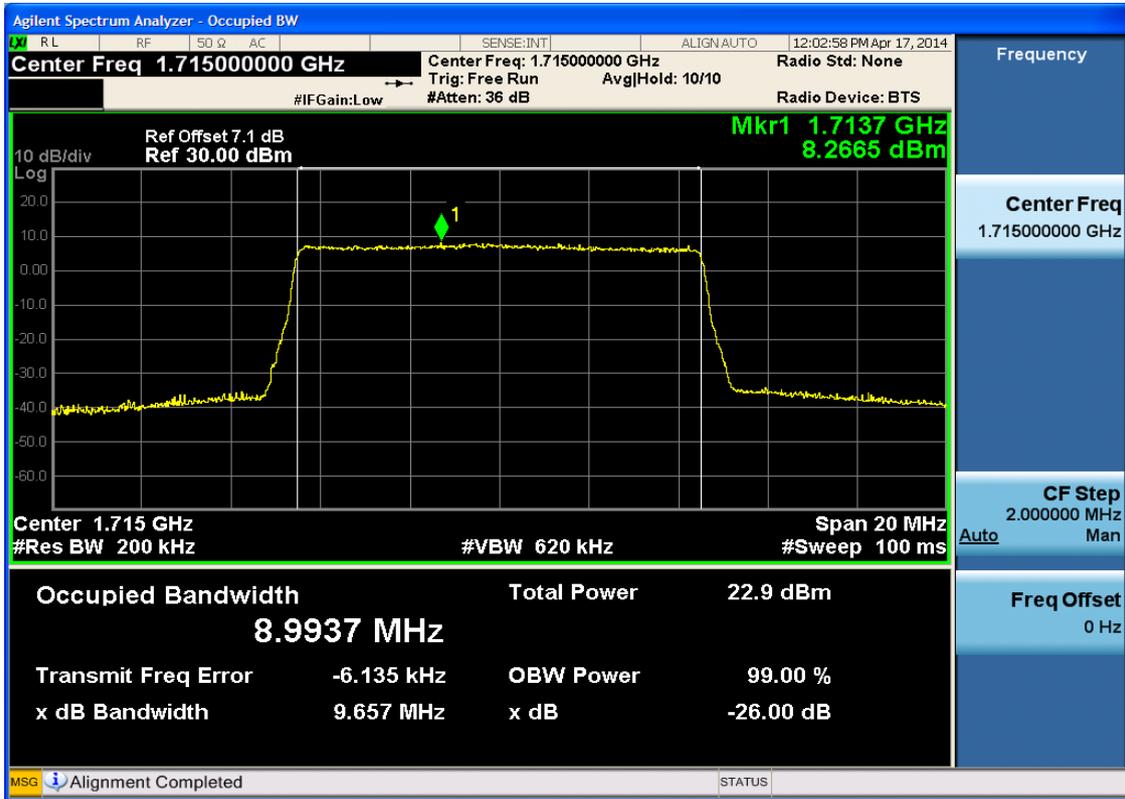
4.3.1.1.4.2 Test Channel = MCH

4.3.1.1.4.2.1 Test RB = RB50#0
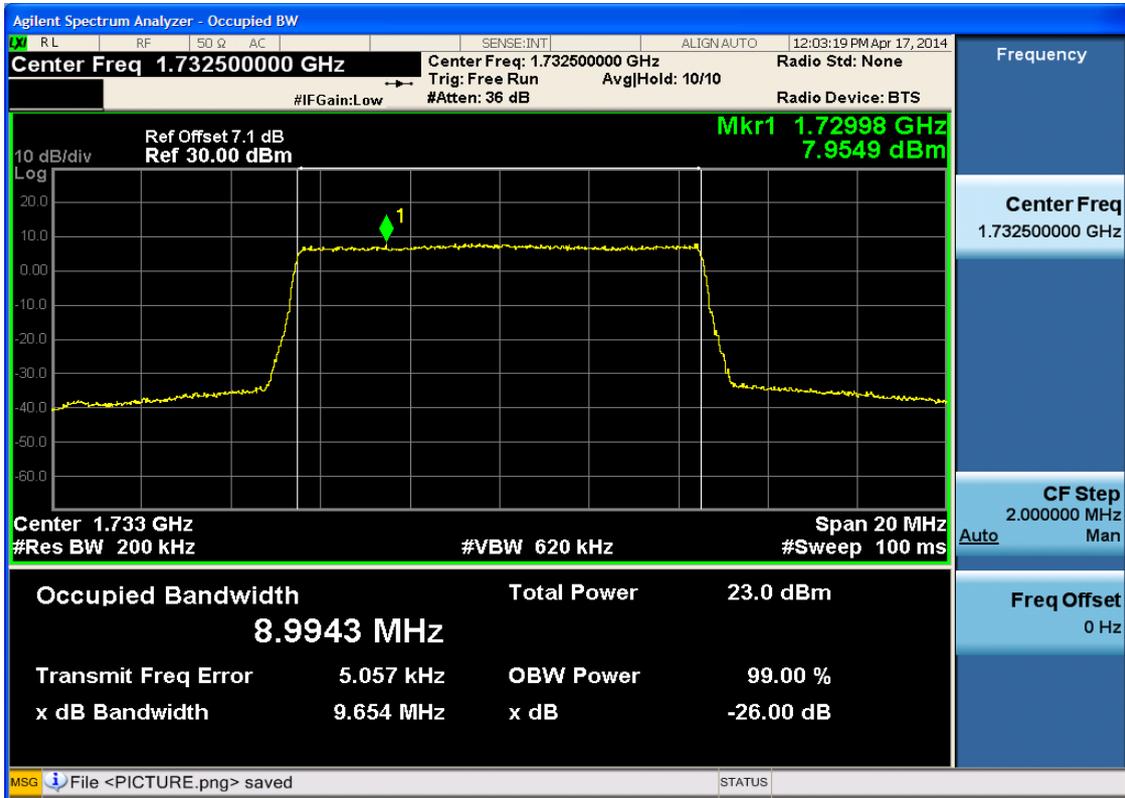
4.3.1.1.4.3 Test Channel = HCH

4.3.1.1.4.3.1 Test RB = RB50#0
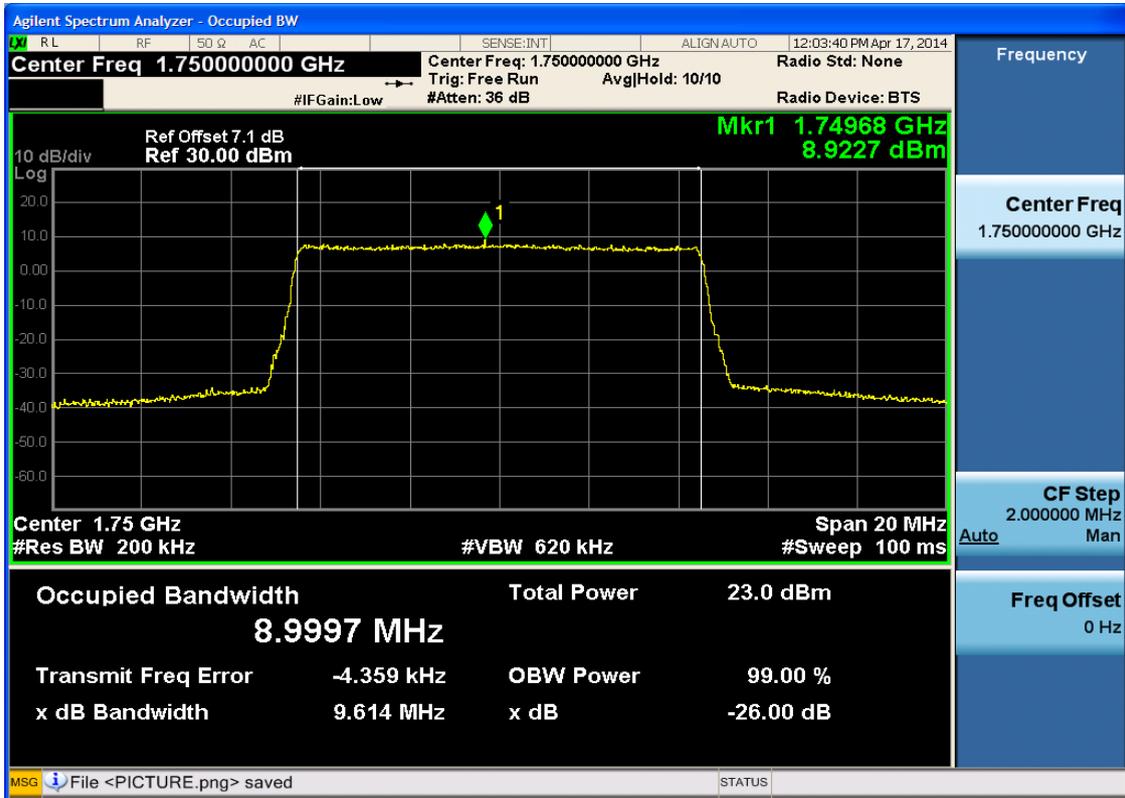
4.3.1.1.5 Test Bandwidth = 15

4.3.1.1.5.1 Test Channel = LCH

4.3.1.1.5.1.1 Test RB = RB75#0
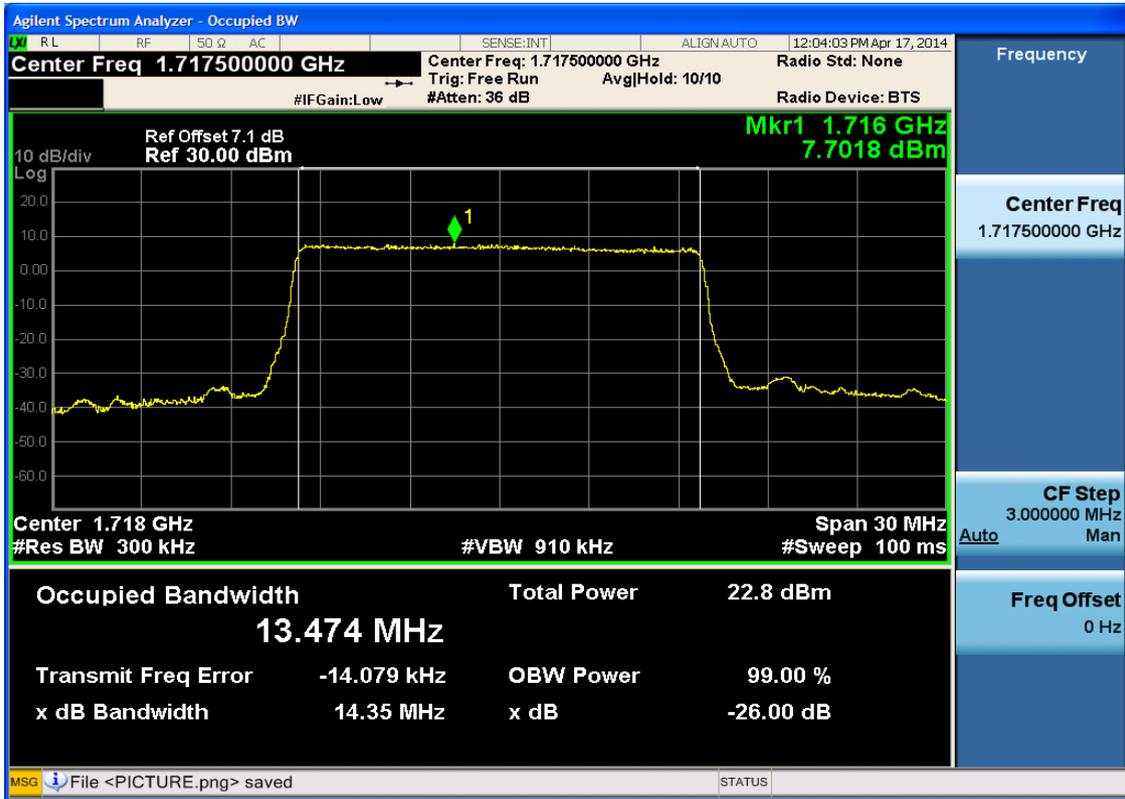
4.3.1.1.5.2 Test Channel = MCH

4.3.1.1.5.2.1 Test RB = RB75#0
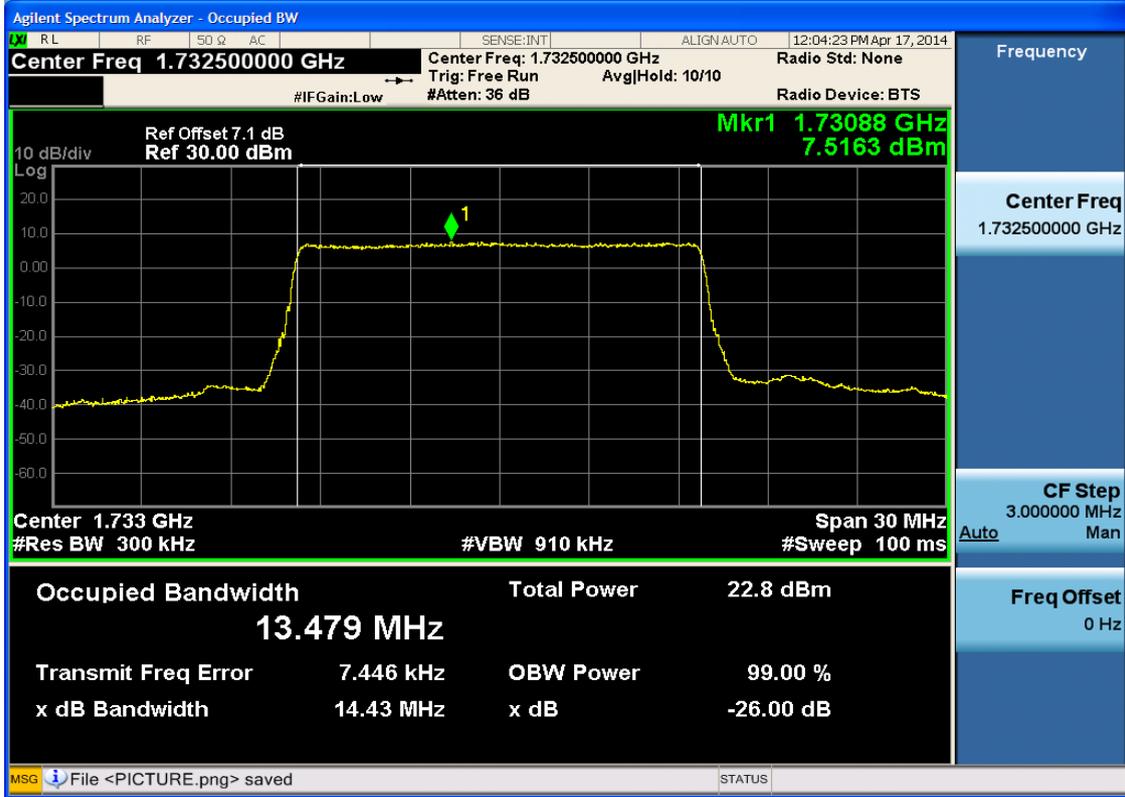
4.3.1.1.5.3 Test Channel = HCH

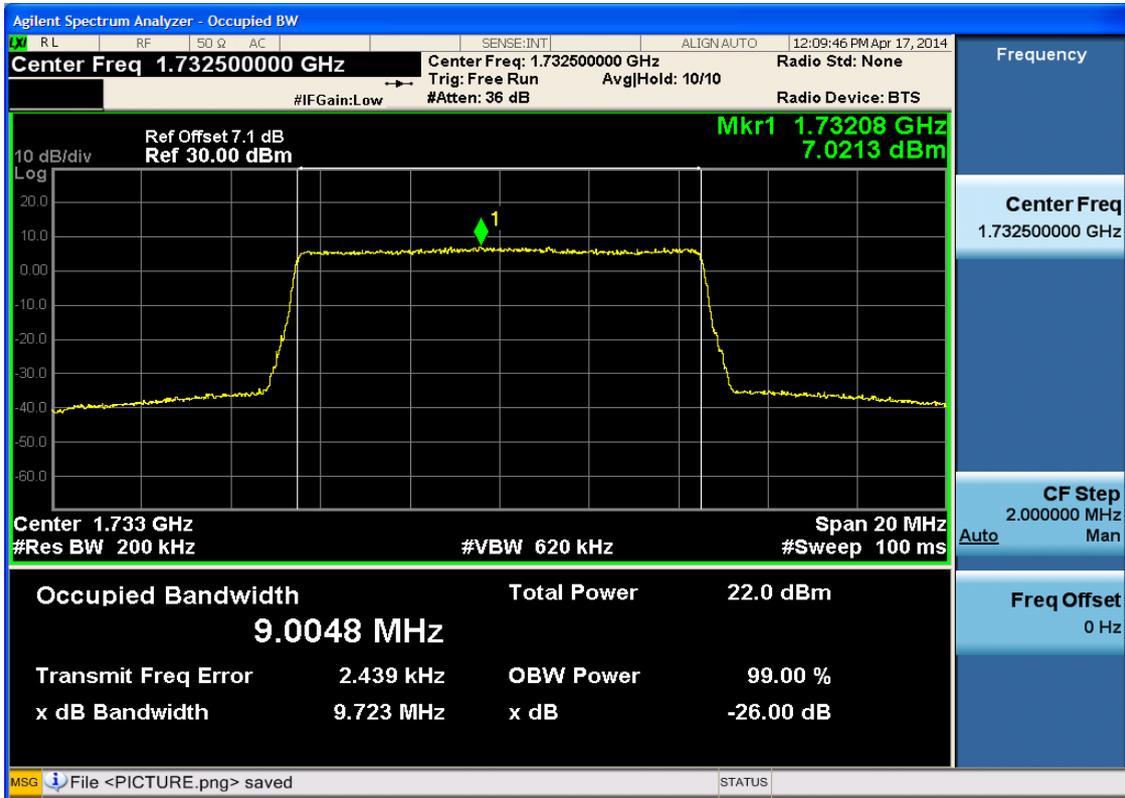## 4.3.1.1.5.3.1 Test RB = RB75#0
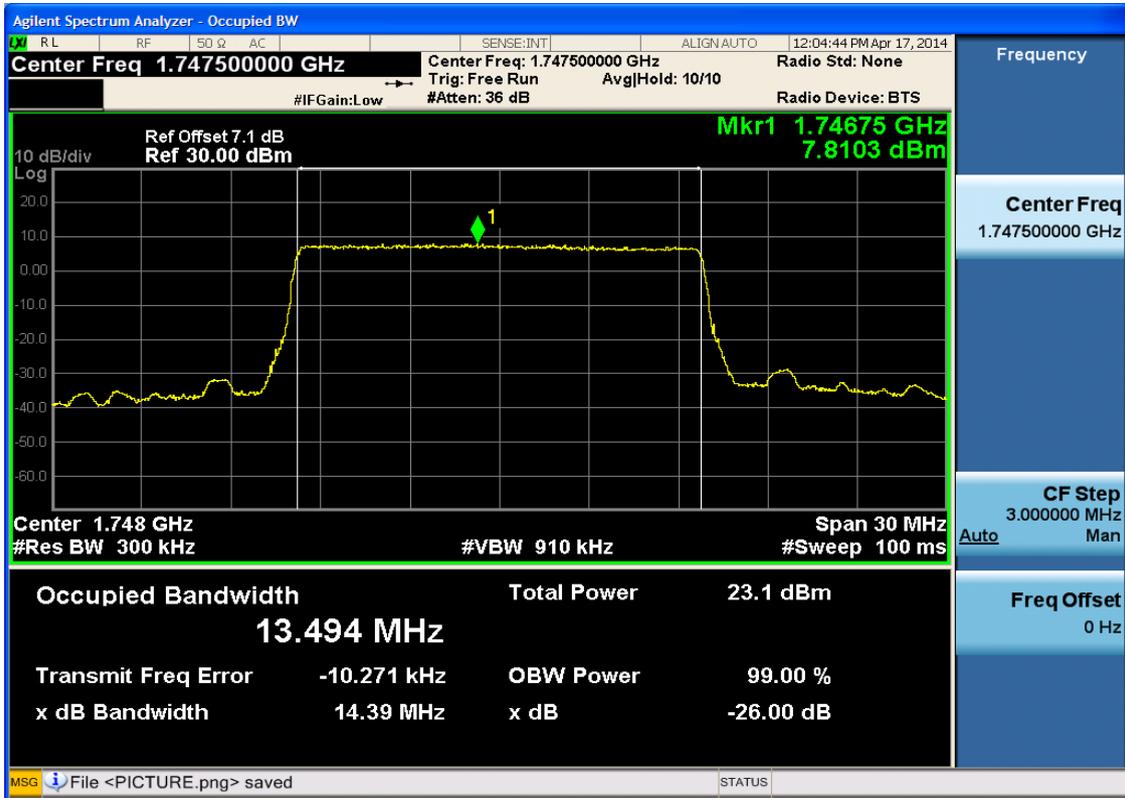
4.3.1.1.6 Test Bandwidth = 20

4.3.1.1.6.1 Test Channel = LCH

4.3.1.1.6.1.1 Test RB = RB100#0
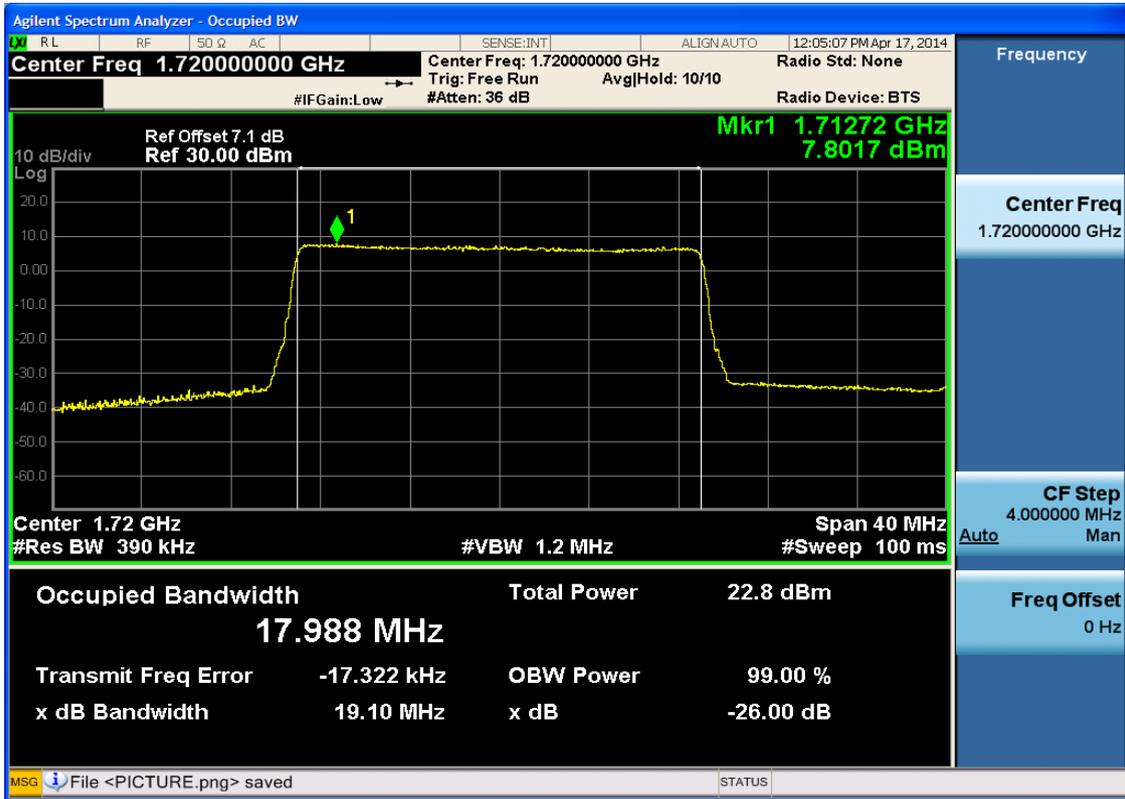
4.3.1.1.6.2 Test Channel = MCH

4.3.1.1.6.2.1 Test RB = RB100#0
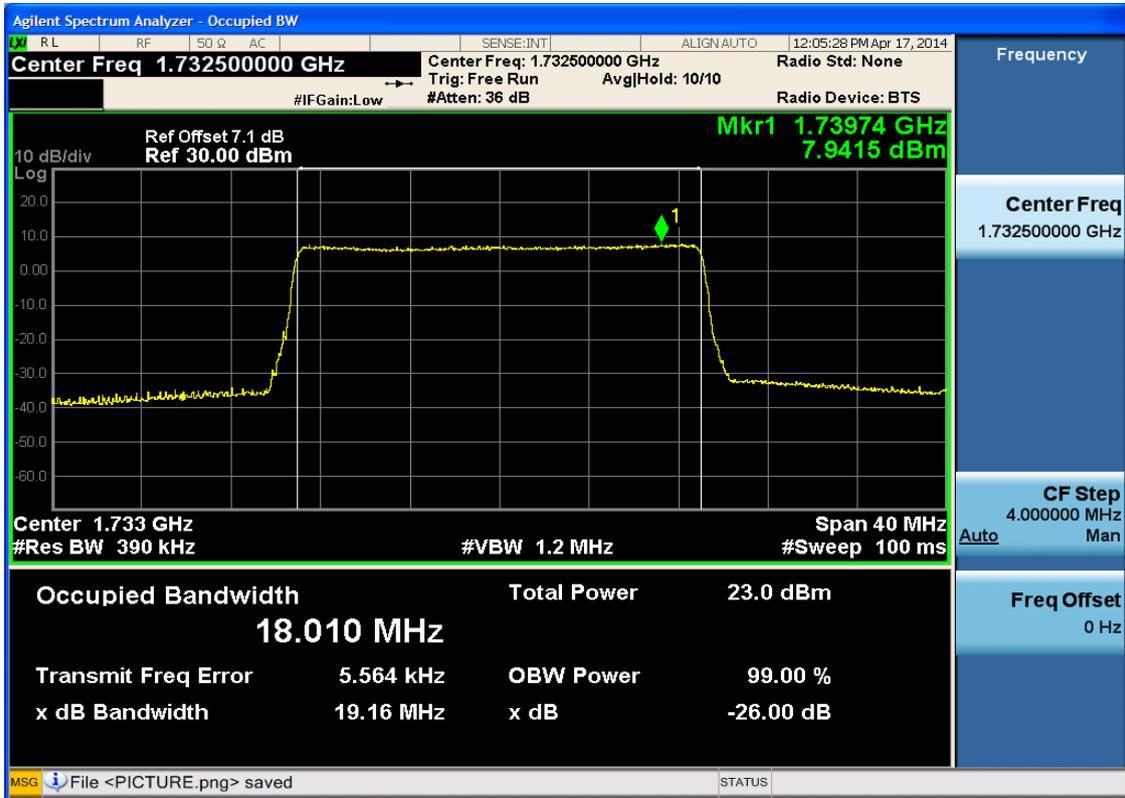
4.3.1.1.6.3 Test Channel = HCH

4.3.1.1.6.3.1 Test RB = RB100#0
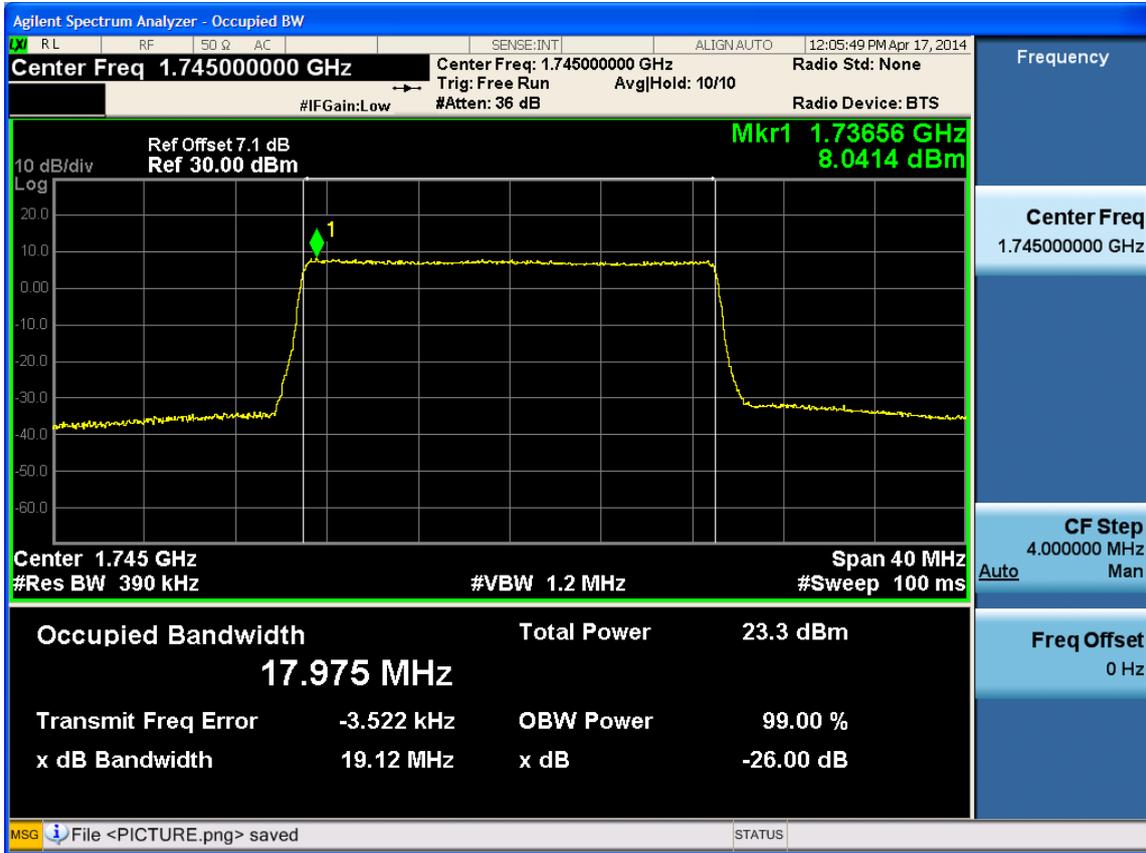
4.3.1.2 Test Mode = LTE/TM2

4.3.1.2.1 Test Bandwidth = 1.4

4.3.1.2.1.1 Test Channel = LCH

4.3.1.2.1.1.1 Test RB = RB6#0

4.3.1.2.1.2 Test Channel = MCH

4.3.1.2.1.2.1 Test RB = RB6#0
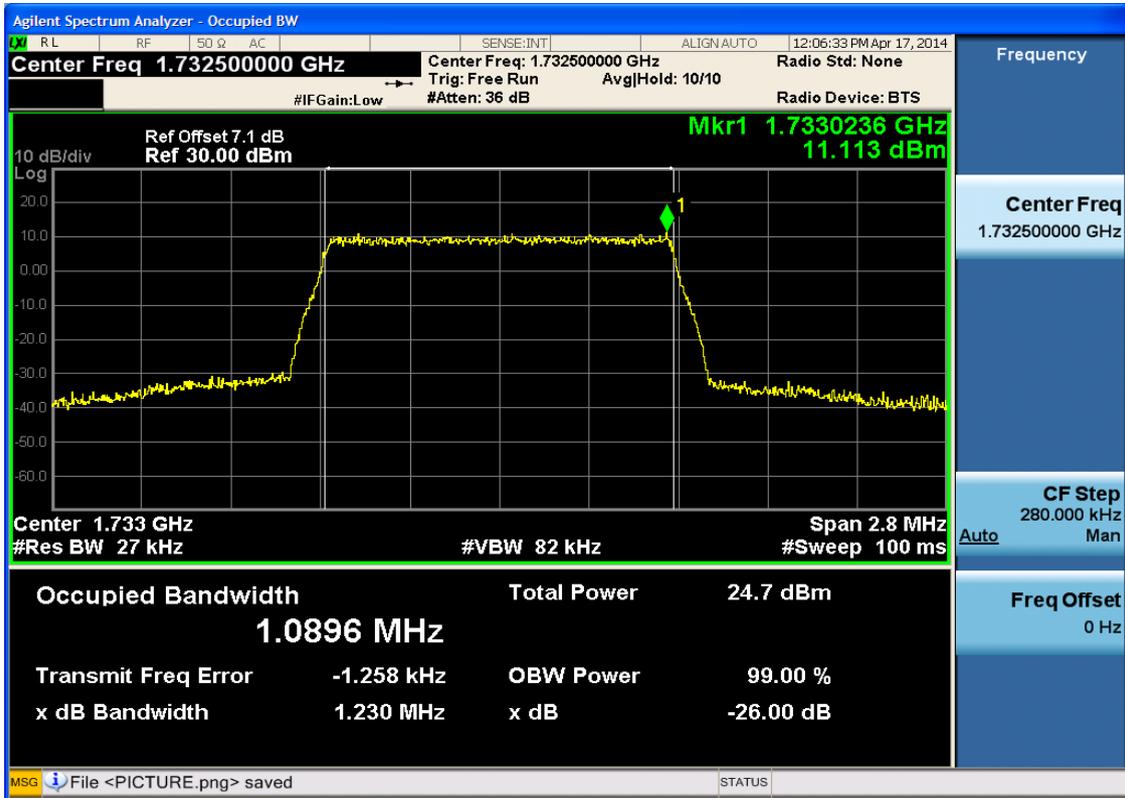
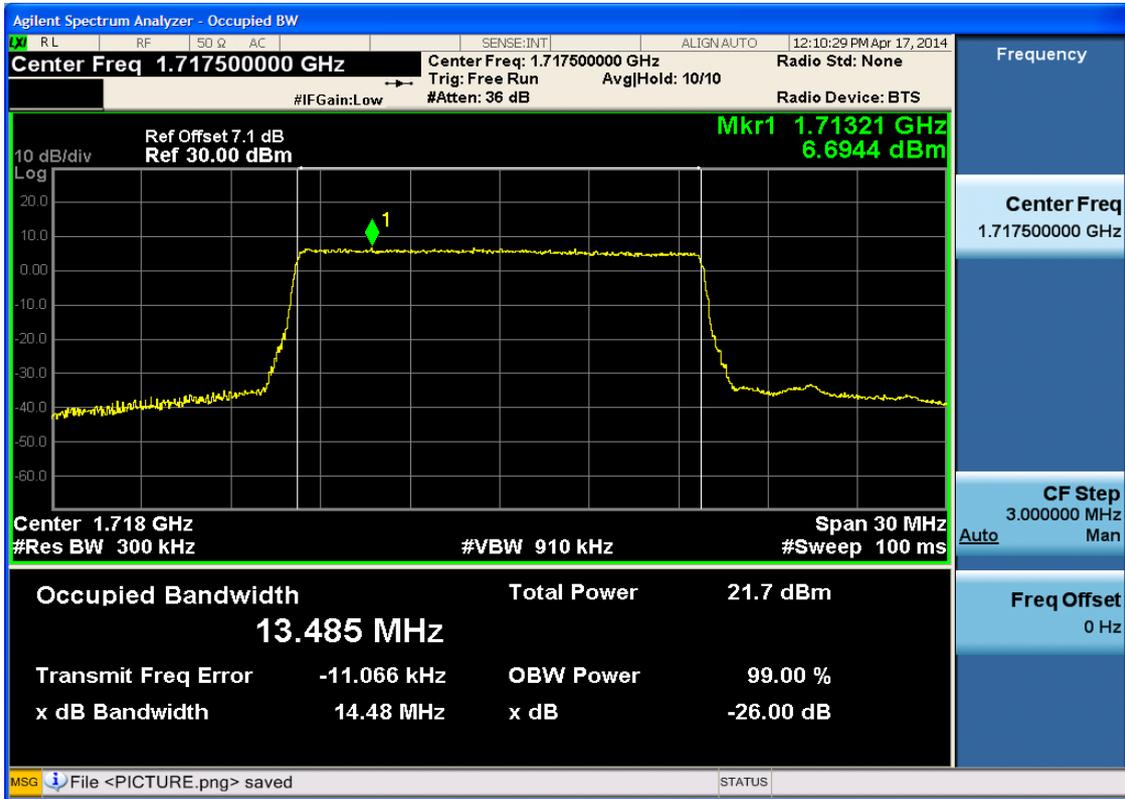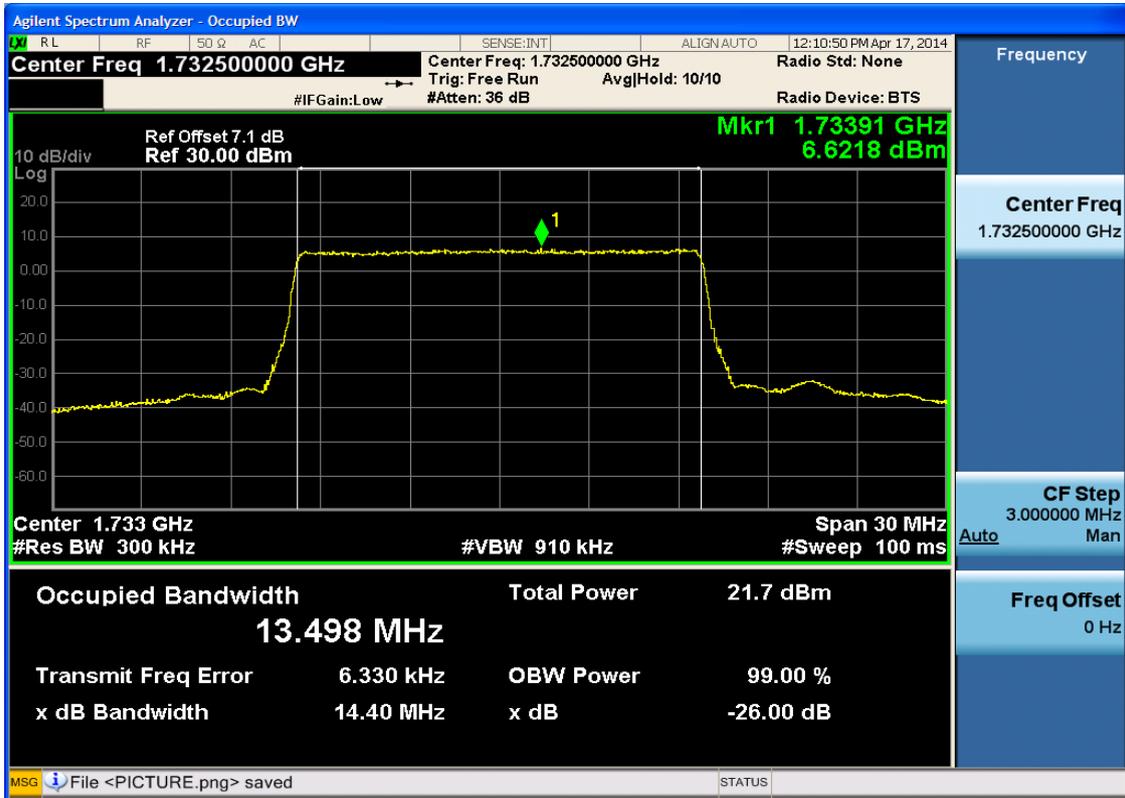## 4.3.1.2.1.3 Test Channel = HCH

4.3.1.2.1.3.1 Test RB = RB6#0

4.3.1.2.2 Test Bandwidth = 3

4.3.1.2.2.1 Test Channel = LCH

4.3.1.2.2.1.1 Test RB = RB15#0
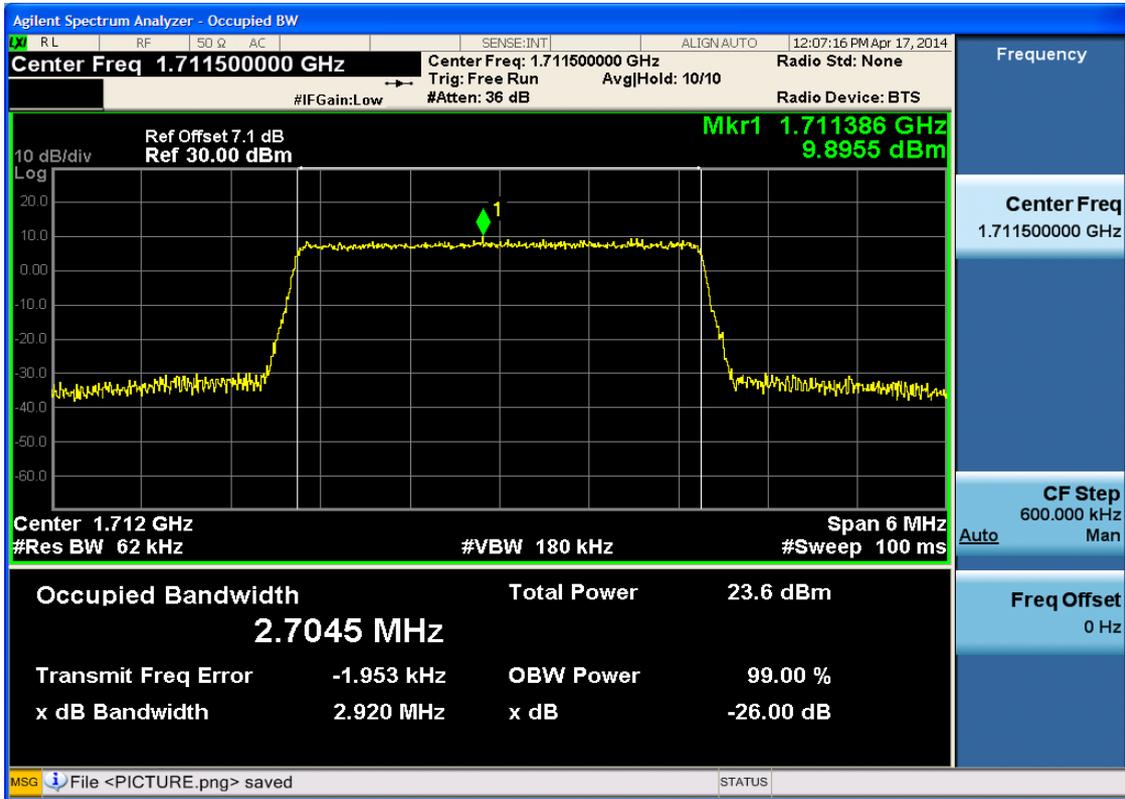
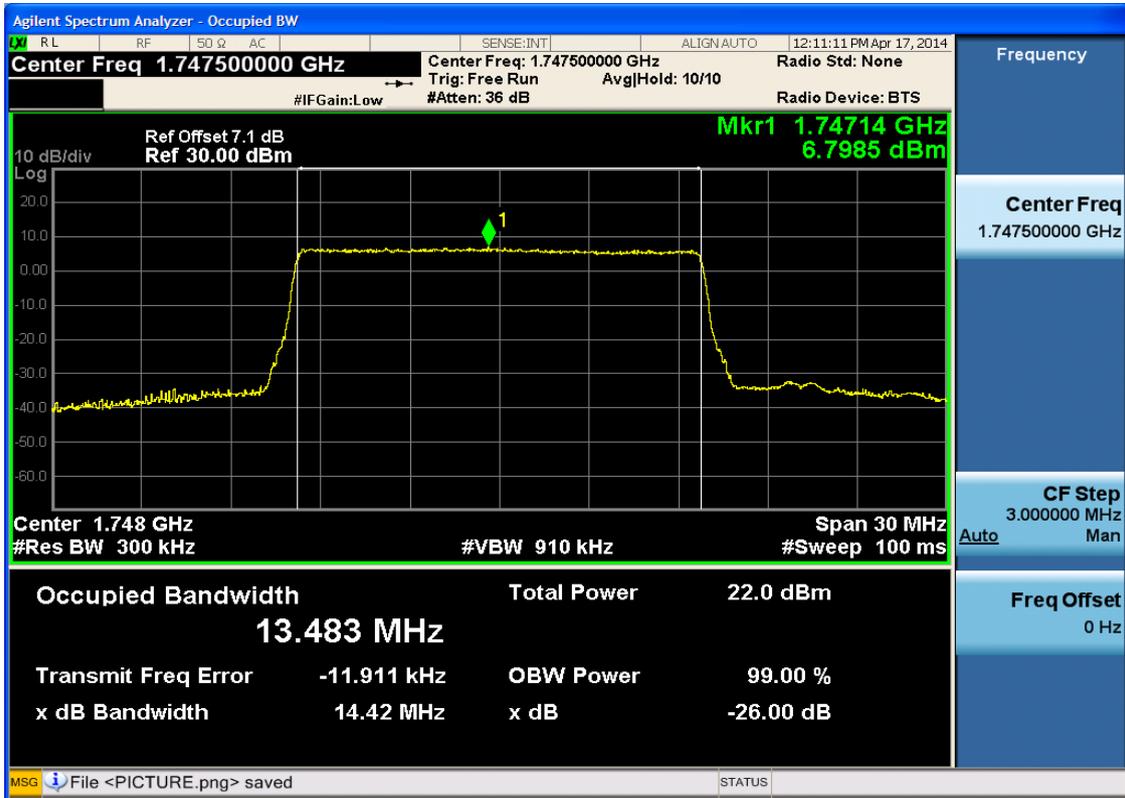## 4.3.1.2.2.2 Test Channel = MCH

4.3.1.2.2.2.1 Test RB = RB15#0

4.3.1.2.2.3 Test Channel = HCH

4.3.1.2.2.3.1 Test RB = RB15#0
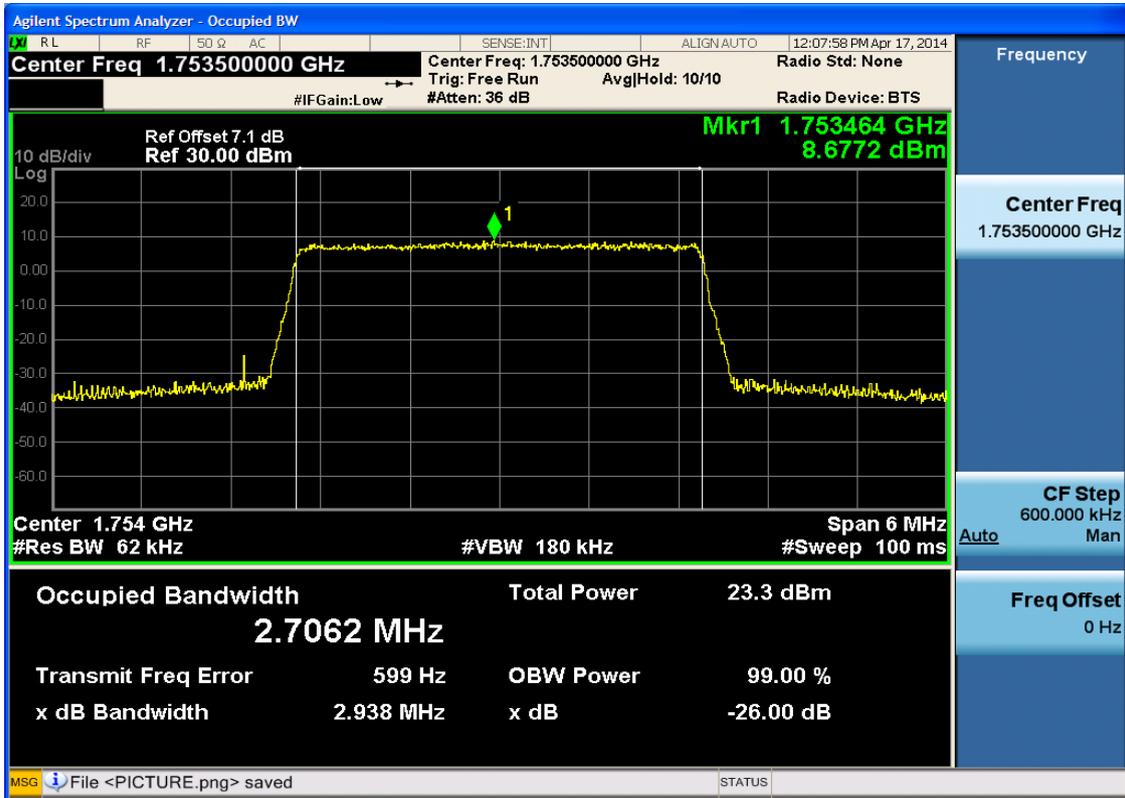
4.3.1.2.3 Test Bandwidth = 5

4.3.1.2.3.1 Test Channel = LCH

4.3.1.2.3.1.1 Test RB = RB25#0

4.3.1.2.3.2 Test Channel = MCH

4.3.1.2.3.2.1 Test RB = RB25#0

4.3.1.2.3.3 Test Channel = HCH

4.3.1.2.3.3.1 Test RB = RB25#0

4.3.1.2.4 Test Bandwidth = 10

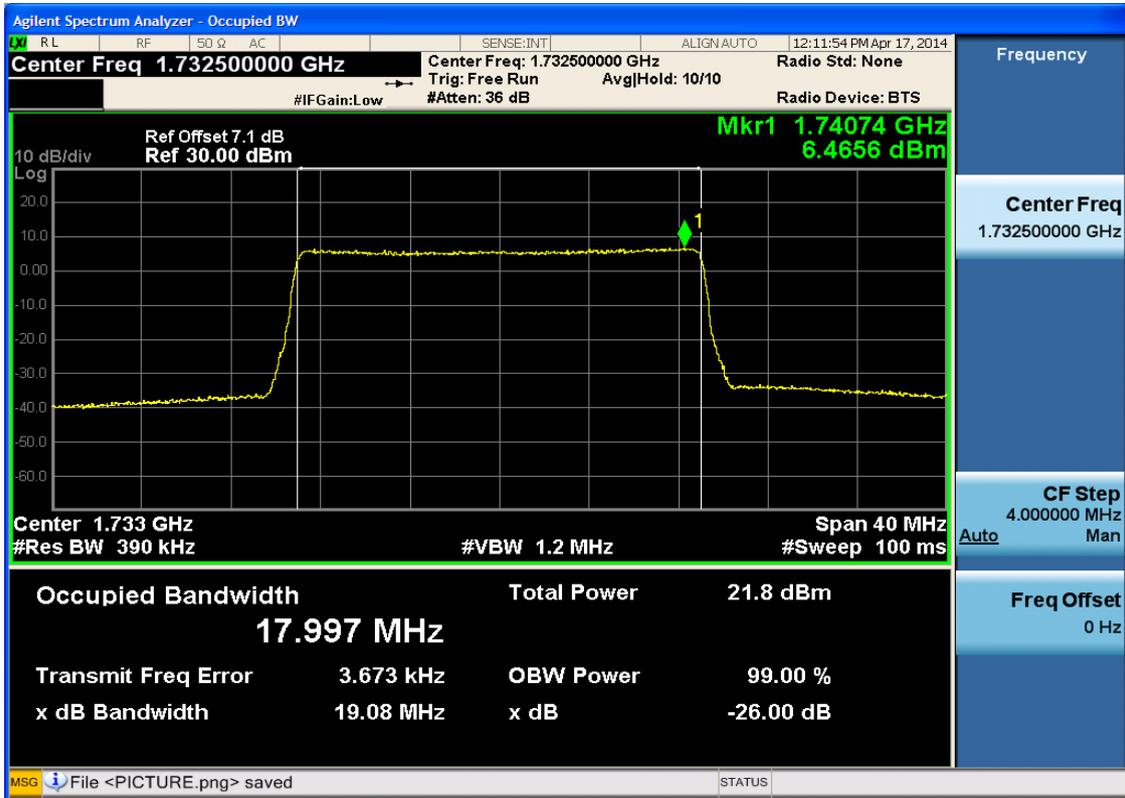## 4.3.1.2.4.1 Test Channel = LCH

4.3.1.2.4.1.1 Test RB = RB50#0
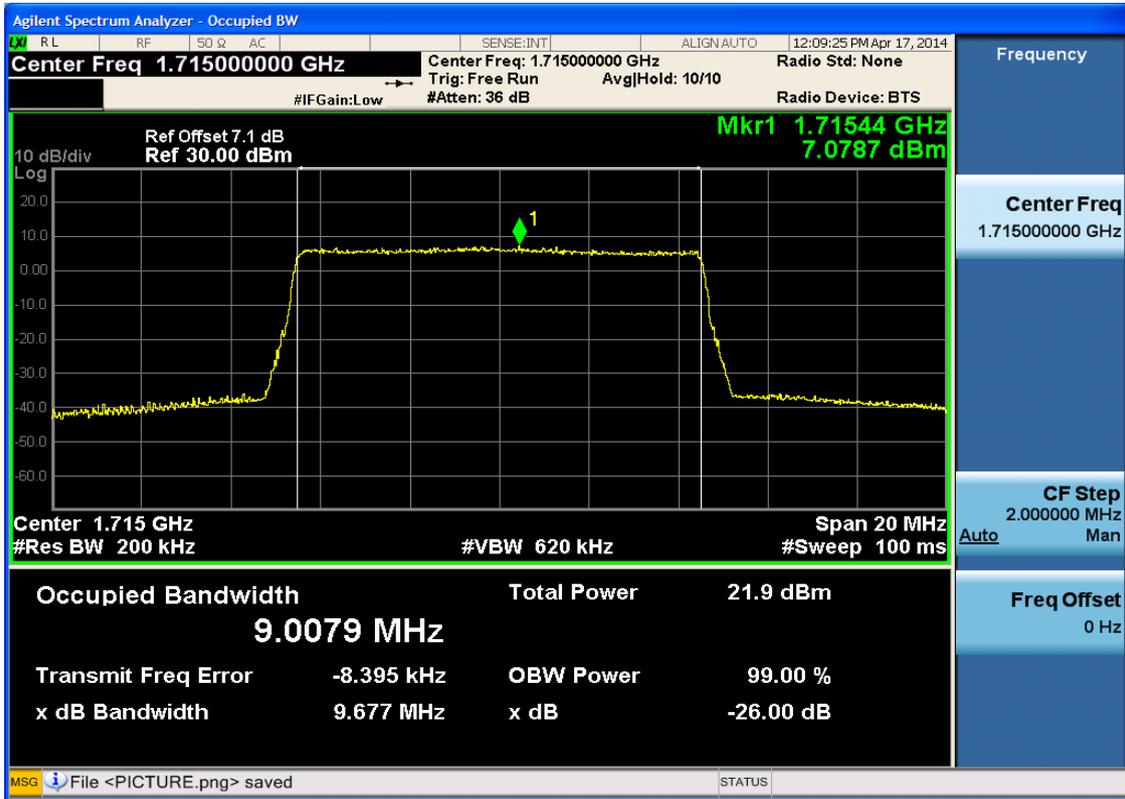
4.3.1.2.4.2 Test Channel = MCH

4.3.1.2.4.2.1 Test RB = RB50#0

4.3.1.2.4.3 Test Channel = HCH

4.3.1.2.4.3.1 Test RB = RB50#0

4.3.1.2.5 Test Bandwidth = 15

4.3.1.2.5.1 Test Channel = LCH

4.3.1.2.5.1.1 Test RB = RB75#0

4.3.1.2.5.2 Test Channel = MCH

4.3.1.2.5.2.1 Test RB = RB75#0

4.3.1.2.5.3 Test Channel = HCH

4.3.1.2.5.3.1 Test RB = RB75#0

4.3.1.2.6 Test Bandwidth = 20

4.3.1.2.6.1 Test Channel = LCH

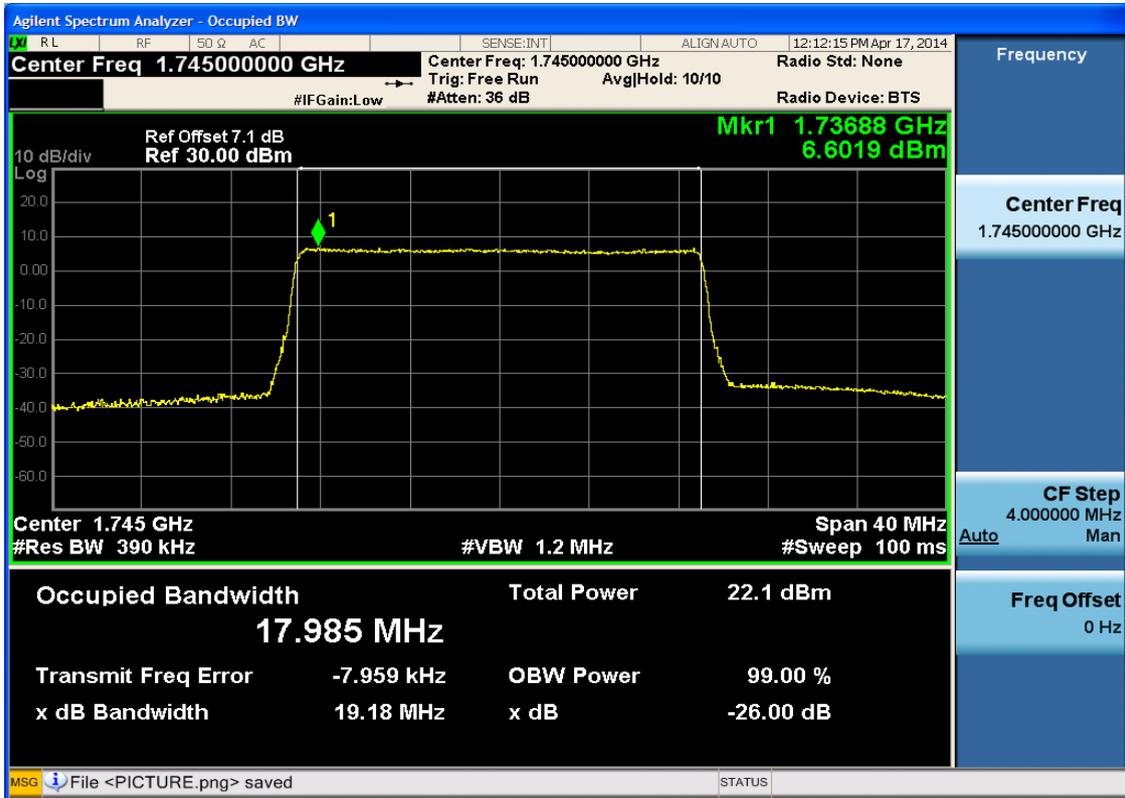## 4.3.1.2.6.1.1 Test RB = RB100#0
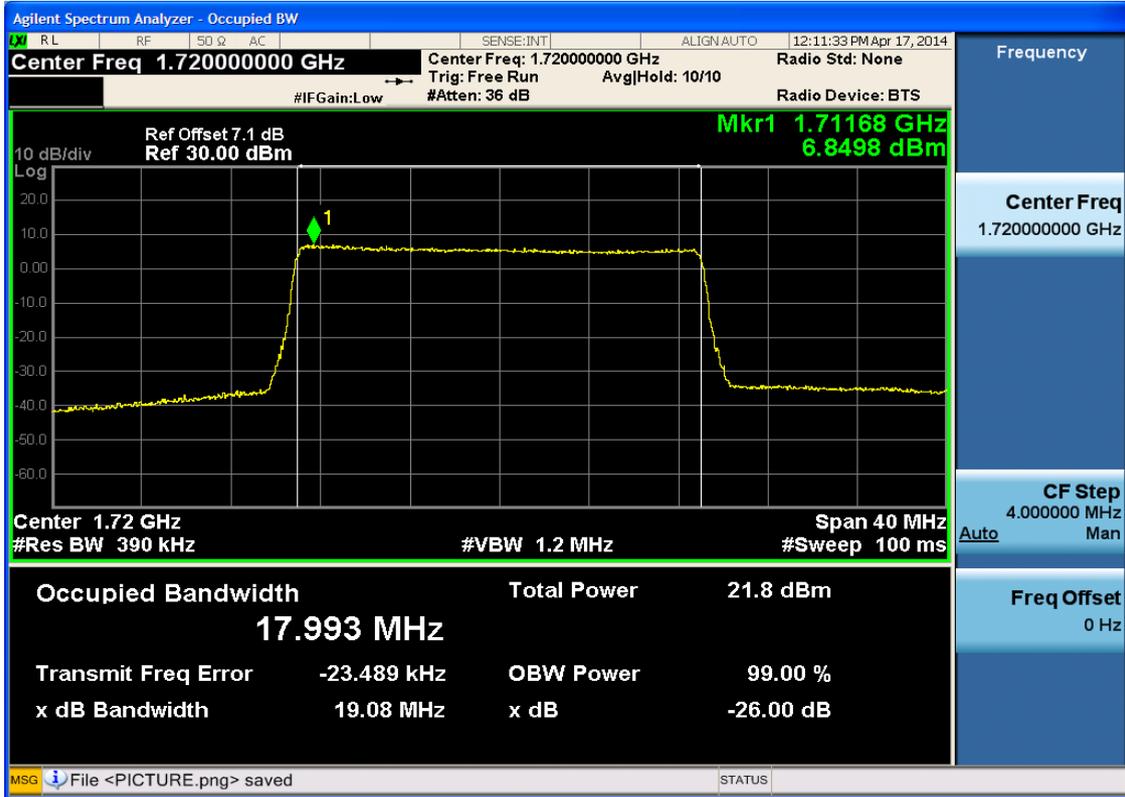
4.3.1.2.6.2 Test Channel = MCH

4.3.1.2.6.2.1 Test RB = RB100#0

4.3.1.2.6.3 Test Channel = HCH

4.3.1.2.6.3.1 Test RB = RB100#0
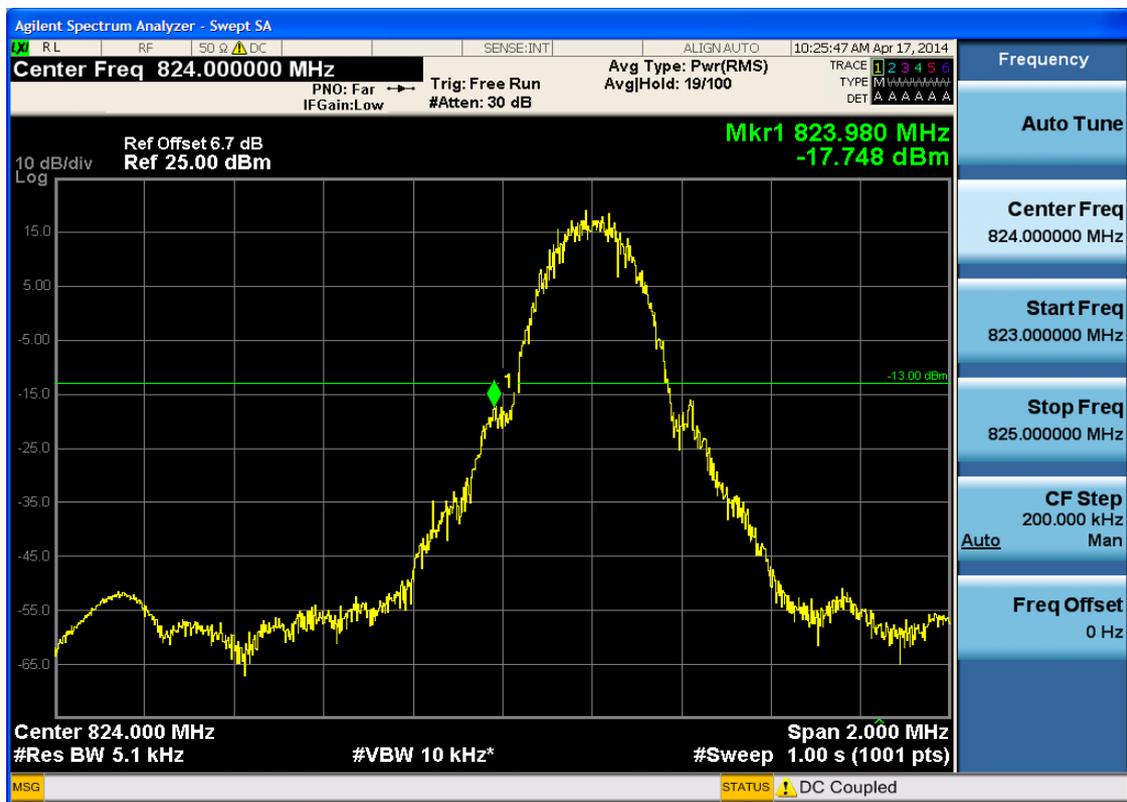
5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

5.1.1.1 Test Mode = GSM/TM1

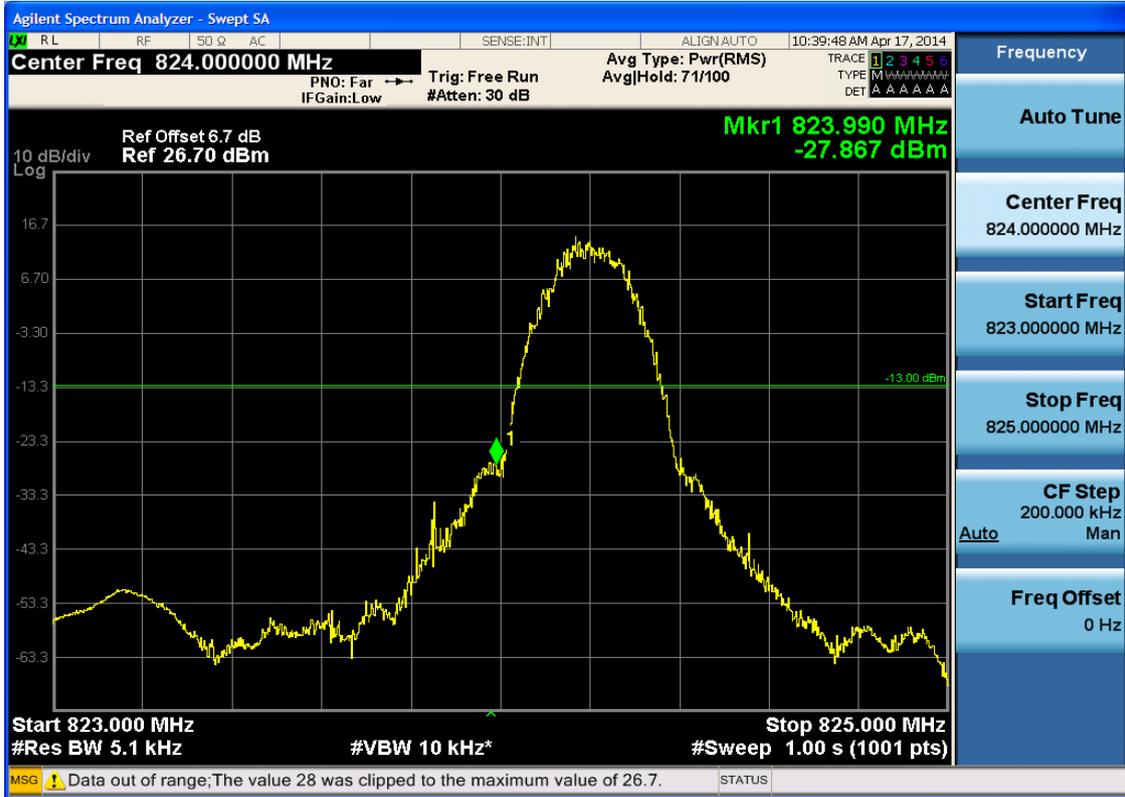**5.1.1.1.1 Test Channel = LCH**
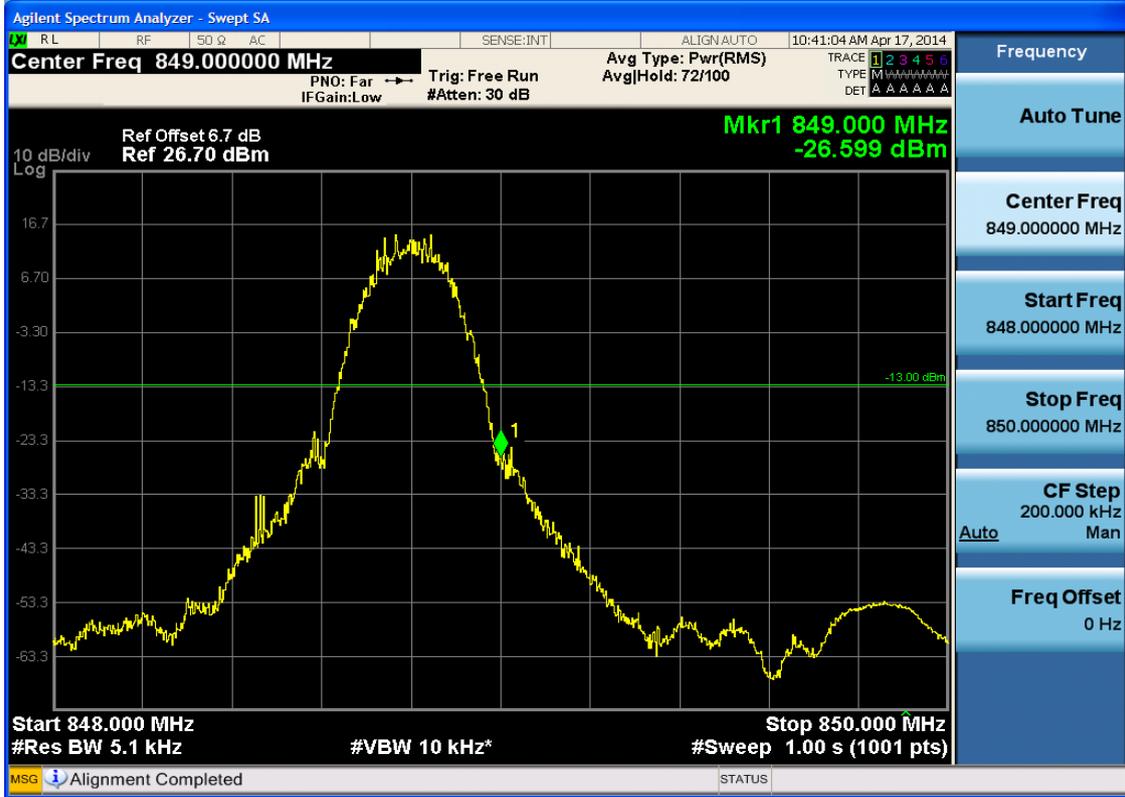
5.1.1.1.2 Test Channel = HCH

5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH

5.1.1.2.2 Test Channel = HCH

5.2 For UMTS

5.2.1 Test Band = WCDMA850

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH

5.2.1.1.2 Test Channel = HCH

5.2.2 Test Band = WCDMA1700

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH

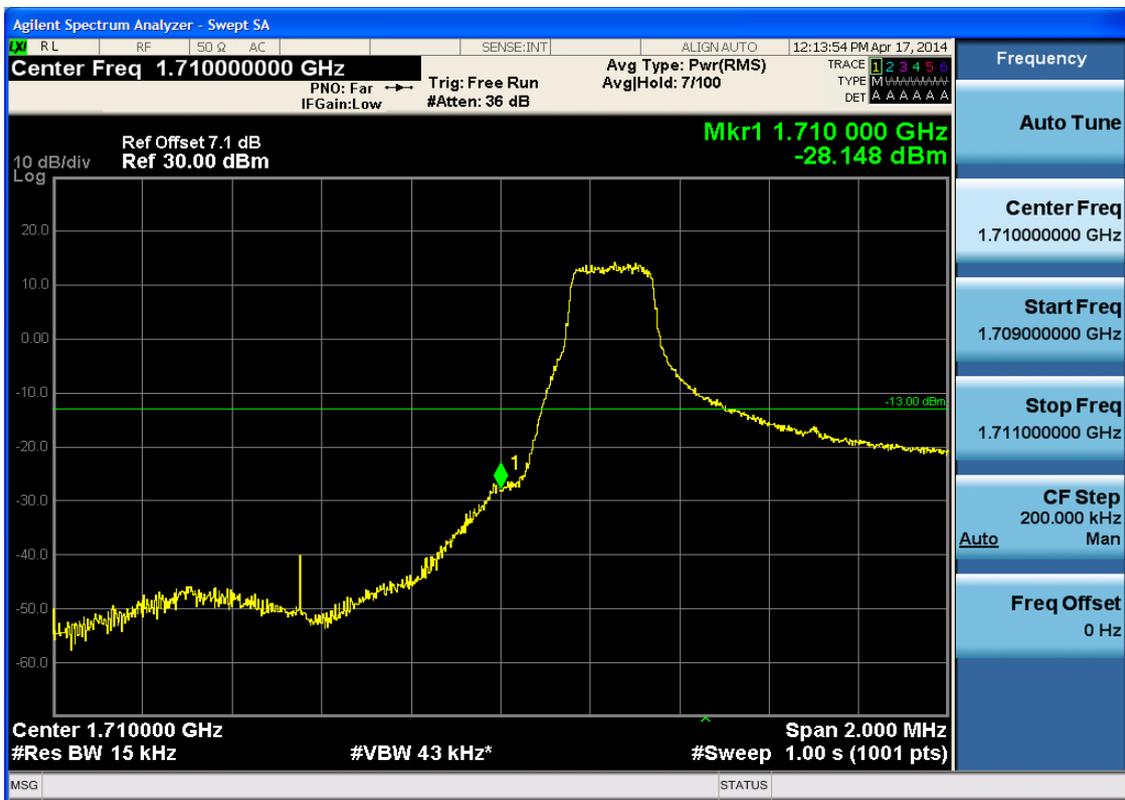## 5.2.2.1.2 Test Channel = HCH

5.3 For LTE

5.3.1 Test Band = BAND4

5.3.1.1 Test Mode = LTE/TM1

5.3.1.1.1 Test Bandwidth = 1.4

5.3.1.1.1.1 Test Channel = LCH
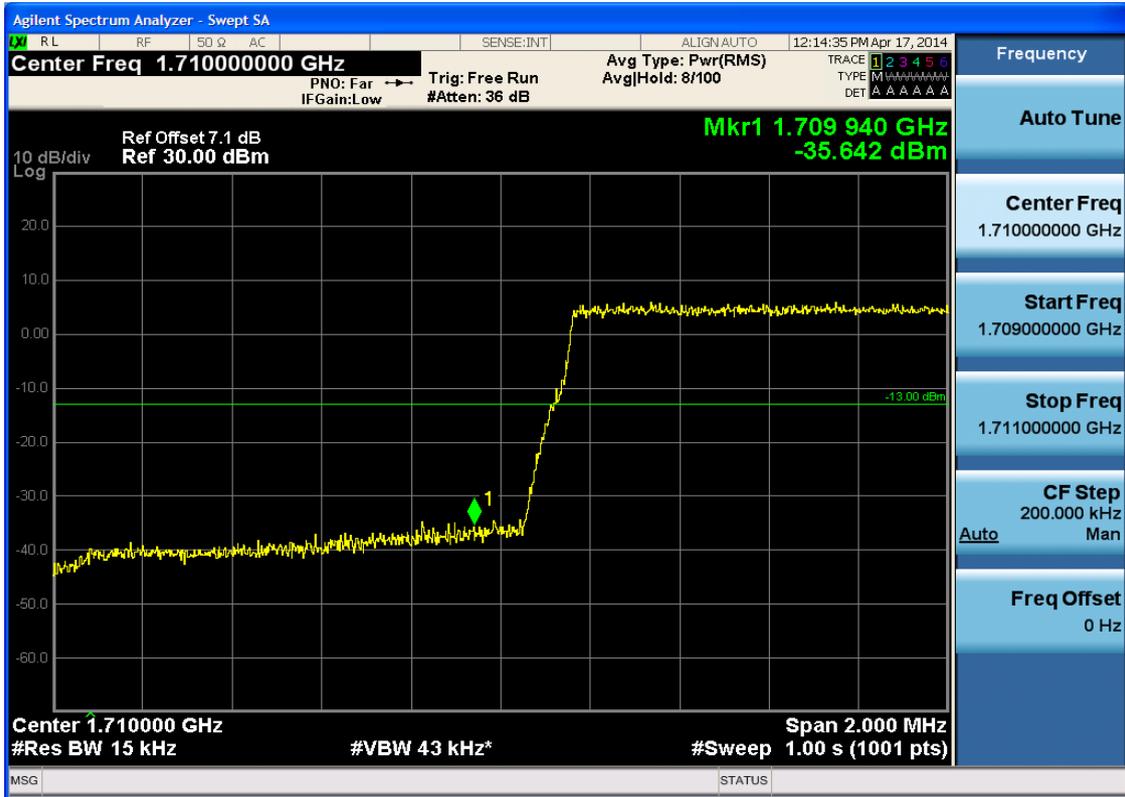
5.3.1.1.1.1.1 Test RB = RB1#0

5.3.1.1.1.1.2 Test RB = RB1#5

5.3.1.1.1.1.3 Test RB = RB3#2

5.3.1.1.1.1.4 Test RB = RB6#0

5.3.1.1.1.2 Test Channel = HCH

5.3.1.1.2.1 Test RB = RB1#0

5.3.1.1.1.2.2 Test RB = RB1#5

5.3.1.1.1.2.3 Test RB = RB3#2