



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

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	21.48	21.55	30	PASS
				RB1#3	21.51	21.60	30	PASS
				RB1#5	21.34	21.48	30	PASS
				RB3#0	21.51	21.56	30	PASS
				RB3#2	21.46	21.55	30	PASS
				RB3#3	21.39	21.52	30	PASS
				RB6#0	20.57	20.69	30	PASS
			MCH	RB1#0	21.97	22.10	30	PASS
				RB1#3	22.02	22.16	30	PASS
				RB1#5	21.99	22.04	30	PASS
				RB3#0	22	22.09	30	PASS
				RB3#2	22.01	22.09	30	PASS
				RB3#3	21.97	22.11	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB6#0	21.08	21.14	30	PASS
			HCH	RB1#0	22.14	22.23	30	PASS
				RB1#3	22.22	22.35	30	PASS
				RB1#5	22.21	22.27	30	PASS
				RB3#0	22.17	22.26	30	PASS
				RB3#2	22.24	22.35	30	PASS
				RB3#3	22.18	22.23	30	PASS
				RB6#0	21.17	21.31	30	PASS
		3	LCH	RB1#0	21.32	21.45	30	PASS
				RB1#7	21.46	21.59	30	PASS
				RB1#14	21.14	21.20	30	PASS
				RB8#0	20.53	20.65	30	PASS
				RB8#4	20.5	20.61	30	PASS
				RB8#7	20.44	20.50	30	PASS
				RB15#0	20.45	20.58	30	PASS
			MCH	RB1#0	21.88	21.97	30	PASS
				RB1#7	22.11	22.16	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#14	21.76	21.84	30	PASS
				RB8#0	21.06	21.11	30	PASS
				RB8#4	21.07	21.12	30	PASS
				RB8#7	20.97	21.07	30	PASS
				RB15#0	21.02	21.10	30	PASS
			HCH	RB1#0	21.92	22.03	30	PASS
				RB1#7	22.2	22.32	30	PASS
				RB1#14	22.04	22.17	30	PASS
				RB8#0	21.05	21.19	30	PASS
				RB8#4	21.08	21.21	30	PASS
				RB8#7	21.05	21.15	30	PASS
				RB15#0	21.03	21.09	30	PASS
		5	LCH	RB1#0	21.99	22.08	30	PASS
				RB1#13	21.91	22.05	30	PASS
				RB1#24	21.83	21.97	30	PASS
				RB12#0	20.87	21.01	30	PASS
				RB12#6	20.93	21.00	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#13	20.75	20.82	30	PASS
				RB25#0	20.8	20.90	30	PASS
			MCH	RB1#0	22.39	22.47	30	PASS
				RB1#13	22.45	22.53	30	PASS
				RB1#24	22.26	22.33	30	PASS
				RB12#0	21.37	21.45	30	PASS
				RB12#6	21.49	21.58	30	PASS
				RB12#13	21.31	21.43	30	PASS
				RB25#0	21.34	21.40	30	PASS
			HCH	RB1#0	22.4	22.55	30	PASS
				RB1#13	22.48	22.56	30	PASS
				RB1#24	22.48	22.61	30	PASS
				RB12#0	21.4	21.54	30	PASS
				RB12#6	21.51	21.59	30	PASS
				RB12#13	21.44	21.51	30	PASS
				RB25#0	21.3	21.43	30	PASS
		10	LCH	RB1#0	21.92	22.06	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#25	21.94	22.06	30	PASS
				RB1#49	21.95	22.03	30	PASS
				RB25#0	20.8	20.88	30	PASS
				RB25#13	20.96	21.10	30	PASS
				RB25#25	20.86	20.98	30	PASS
				RB50#0	20.77	20.91	30	PASS
			MCH	RB1#0	22.41	22.47	30	PASS
				RB1#25	22.51	22.63	30	PASS
				RB1#49	22.35	22.40	30	PASS
				RB25#0	21.26	21.40	30	PASS
				RB25#13	21.39	21.51	30	PASS
				RB25#25	21.24	21.37	30	PASS
				RB50#0	21.25	21.39	30	PASS
			HCH	RB1#0	22.18	22.29	30	PASS
				RB1#25	22.36	22.41	30	PASS
				RB1#49	22.62	22.69	30	PASS
				RB25#0	21.2	21.31	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.37	21.50	30	PASS
				RB25#25	21.34	21.46	30	PASS
				RB50#0	21.22	21.34	30	PASS
		15	LCH	RB1#0	21.98	22.10	30	PASS
				RB1#38	21.99	22.08	30	PASS
				RB1#74	22.31	22.40	30	PASS
				RB38#0	20.92	20.99	30	PASS
				RB38#19	21.06	21.12	30	PASS
				RB38#39	21.04	21.17	30	PASS
				RB75#0	20.94	21.06	30	PASS
			MCH	RB1#0	22.39	22.53	30	PASS
				RB1#38	22.44	22.51	30	PASS
				RB1#74	22.38	22.47	30	PASS
				RB38#0	21.32	21.44	30	PASS
				RB38#19	21.34	21.49	30	PASS
				RB38#39	21.32	21.46	30	PASS
				RB75#0	21.31	21.36	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.21	22.30	30	PASS
				RB1#38	22.3	22.35	30	PASS
				RB1#74	22.7	22.84	30	PASS
				RB38#0	21.25	21.35	30	PASS
				RB38#19	21.29	21.37	30	PASS
				RB38#39	21.24	21.36	30	PASS
				RB75#0	21.29	21.40	30	PASS
		20	LCH	RB1#0	21.91	22.05	30	PASS
				RB1#50	22.14	22.27	30	PASS
				RB1#99	22.22	22.36	30	PASS
				RB50#0	20.91	21.04	30	PASS
				RB50#25	21.05	21.14	30	PASS
				RB50#50	21.07	21.17	30	PASS
				RB100#0	21	21.14	30	PASS
			MCH	RB1#0	22.17	22.28	30	PASS
				RB1#50	22.48	22.58	30	PASS
				RB1#99	21.98	22.09	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.22	21.30	30	PASS
				RB50#25	21.39	21.49	30	PASS
				RB50#50	21.33	21.48	30	PASS
				RB100#0	21.22	21.34	30	PASS
			HCH	RB1#0	22.25	22.38	30	PASS
				RB1#50	22.16	22.29	30	PASS
				RB1#99	22.32	22.40	30	PASS
				RB50#0	21.27	21.34	30	PASS
	LTE/TM2	1.4	LCH	RB50#25	21.29	21.43	30	PASS
				RB50#50	21.13	21.26	30	PASS
				RB100#0	21.28	21.36	30	PASS
				RB1#0	20.69	20.75	30	PASS
				RB1#3	20.61	20.72	30	PASS
				RB1#5	20.5	20.65	30	PASS
				RB3#0	20.55	20.62	30	PASS
				RB3#2	20.55	20.60	30	PASS
				RB3#3	20.49	20.64	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB6#0	20.57	20.67	30	PASS
			MCH	RB1#0	21.17	21.27	30	PASS
				RB1#3	21.26	21.40	30	PASS
				RB1#5	21.16	21.22	30	PASS
				RB3#0	21.22	21.30	30	PASS
				RB3#2	21.22	21.33	30	PASS
				RB3#3	21.21	21.35	30	PASS
				RB6#0	21.13	21.28	30	PASS
			HCH	RB1#0	21.31	21.45	30	PASS
				RB1#3	21.35	21.43	30	PASS
				RB1#5	21.3	21.37	30	PASS
				RB3#0	21.08	21.15	30	PASS
				RB3#2	21.14	21.19	30	PASS
				RB3#3	21.08	21.13	30	PASS
				RB6#0	21.12	21.23	30	PASS
		3	LCH	RB1#0	20.59	20.66	30	PASS
				RB1#7	20.63	20.70	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#14	20.38	20.47	30	PASS
				RB8#0	20.53	20.60	30	PASS
				RB8#4	20.46	20.53	30	PASS
				RB8#7	20.38	20.45	30	PASS
				RB15#0	20.48	20.54	30	PASS
			MCH	RB1#0	20.86	21.01	30	PASS
				RB1#7	21.11	21.20	30	PASS
				RB1#14	20.86	21.00	30	PASS
				RB8#0	21.1	21.24	30	PASS
				RB8#4	21.11	21.23	30	PASS
				RB8#7	21	21.07	30	PASS
				RB15#0	21.07	21.16	30	PASS
			HCH	RB1#0	21.09	21.16	30	PASS
				RB1#7	21.35	21.48	30	PASS
				RB1#14	21.2	21.32	30	PASS
				RB8#0	21.02	21.14	30	PASS
				RB8#4	21.03	21.16	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB8#7	21	21.11	30	PASS
				RB15#0	20.92	21.06	30	PASS
		5	LCH	RB1#0	21.26	21.37	30	PASS
				RB1#13	21.14	21.27	30	PASS
				RB1#24	21.11	21.23	30	PASS
				RB12#0	20.91	20.96	30	PASS
				RB12#6	20.94	21.01	30	PASS
				RB12#13	20.8	20.92	30	PASS
				RB25#0	20.76	20.83	30	PASS
			MCH	RB1#0	21.68	21.77	30	PASS
				RB1#13	21.72	21.82	30	PASS
				RB1#24	21.5	21.57	30	PASS
				RB12#0	21.32	21.46	30	PASS
				RB12#6	21.42	21.53	30	PASS
				RB12#13	21.25	21.37	30	PASS
				RB25#0	21.28	21.41	30	PASS
			HCH	RB1#0	21.8	21.91	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	21.87	21.96	30	PASS
				RB1#24	21.88	21.96	30	PASS
				RB12#0	21.35	21.41	30	PASS
				RB12#6	21.44	21.52	30	PASS
				RB12#13	21.37	21.52	30	PASS
				RB25#0	21.24	21.33	30	PASS
		10	LCH	RB1#0	20.95	21.06	30	PASS
				RB1#25	21.28	21.34	30	PASS
				RB1#49	21.17	21.23	30	PASS
				RB25#0	20.81	20.93	30	PASS
				RB25#13	20.95	21.09	30	PASS
				RB25#25	20.85	20.99	30	PASS
				RB50#0	20.71	20.76	30	PASS
			MCH	RB1#0	21.59	21.68	30	PASS
				RB1#25	21.63	21.69	30	PASS
				RB1#49	21.46	21.57	30	PASS
				RB25#0	21.2	21.29	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.31	21.40	30	PASS
				RB25#25	21.21	21.35	30	PASS
				RB50#0	21.18	21.31	30	PASS
			HCH	RB1#0	21.43	21.49	30	PASS
				RB1#25	21.66	21.81	30	PASS
				RB1#49	21.77	21.84	30	PASS
				RB25#0	21.13	21.19	30	PASS
				RB25#13	21.26	21.38	30	PASS
				RB25#25	21.23	21.30	30	PASS
				RB50#0	21.14	21.19	30	PASS
		15	LCH	RB1#0	20.96	21.08	30	PASS
				RB1#38	21.11	21.16	30	PASS
				RB1#74	21.39	21.50	30	PASS
				RB38#0	20.84	20.97	30	PASS
				RB38#19	20.98	21.04	30	PASS
				RB38#39	21.02	21.17	30	PASS
				RB75#0	20.92	21.04	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.65	21.74	30	PASS
				RB1#38	21.73	21.82	30	PASS
				RB1#74	21.65	21.74	30	PASS
				RB38#0	21.27	21.36	30	PASS
				RB38#19	21.29	21.38	30	PASS
				RB38#39	21.26	21.35	30	PASS
				RB75#0	21.24	21.29	30	PASS
			HCH	RB1#0	21.56	21.63	30	PASS
				RB1#38	21.53	21.62	30	PASS
				RB1#74	21.78	21.88	30	PASS
				RB38#0	21.18	21.25	30	PASS
				RB38#19	21.22	21.29	30	PASS
				RB38#39	21.14	21.20	30	PASS
				RB75#0	21.2	21.33	30	PASS
		20	LCH	RB1#0	21.1	21.21	30	PASS
				RB1#50	21.43	21.57	30	PASS
				RB1#99	21.45	21.58	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.83	20.97	30	PASS
				RB50#25	20.99	21.08	30	PASS
				RB50#50	21.02	21.15	30	PASS
				RB100#0	20.93	21.02	30	PASS
			MCH	RB1#0	21.45	21.53	30	PASS
				RB1#50	21.88	22.01	30	PASS
				RB1#99	21.2	21.33	30	PASS
				RB50#0	21.17	21.28	30	PASS
				RB50#25	21.33	21.40	30	PASS
				RB50#50	21.25	21.35	30	PASS
				RB100#0	21.18	21.28	30	PASS
			HCH	RB1#0	21.43	21.53	30	PASS
				RB1#50	21.35	21.43	30	PASS
				RB1#99	21.46	21.56	30	PASS
				RB50#0	21.23	21.29	30	PASS
				RB50#25	21.23	21.35	30	PASS
				RB50#50	21.1	21.23	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	21.16	21.25	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,

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

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

b, SGP=Signal Generator Level

Note2:

$$\text{SET Span} = 1.5 * \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed } 1\text{MHz}$$

$$\text{SET VBW} \geq 3 * \text{RBW}$$

SET Sweep time=auto-couple.

Detector:RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

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	4.73	13	PASS
				RB1#3	4.69	13	PASS
				RB1#5	4.78	13	PASS
				RB3#0	4.98	13	PASS
				RB3#2	4.99	13	PASS
				RB3#3	5	13	PASS
				RB6#0	5.67	13	PASS
			MCH	RB1#0	4.74	13	PASS
				RB1#3	4.68	13	PASS
				RB1#5	4.76	13	PASS
				RB3#0	5.44	13	PASS
				RB3#2	5.39	13	PASS
				RB3#3	5.41	13	PASS
				RB6#0	5.76	13	PASS
			HCH	RB1#0	4.23	13	PASS
				RB1#3	4.13	13	PASS
				RB1#5	4.18	13	PASS
				RB3#0	4.63	13	PASS
				RB3#2	4.47	13	PASS
				RB3#3	4.57	13	PASS
				RB6#0	5.46	13	PASS
		3	LCH	RB1#0	4.8	13	PASS
				RB1#7	4.58	13	PASS
				RB1#14	4.96	13	PASS
				RB8#0	5.45	13	PASS
				RB8#4	5.52	13	PASS
				RB8#7	5.49	13	PASS
				RB15#0	5.65	13	PASS
			MCH	RB1#0	4.64	13	PASS
				RB1#7	4.46	13	PASS
				RB1#14	4.72	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	5.77	13	PASS
				RB8#4	5.65	13	PASS
				RB8#7	5.75	13	PASS
				RB15#0	5.91	13	PASS
			HCH	RB1#0	4.63	13	PASS
				RB1#7	4.19	13	PASS
				RB1#14	4.45	13	PASS
				RB8#0	5.4	13	PASS
				RB8#4	5.29	13	PASS
				RB8#7	5.37	13	PASS
				RB15#0	5.46	13	PASS
		5	LCH	RB1#0	4.39	13	PASS
				RB1#13	4.53	13	PASS
				RB1#24	4.68	13	PASS
				RB12#0	5.67	13	PASS
				RB12#6	5.58	13	PASS
				RB12#13	5.75	13	PASS
				RB25#0	5.91	13	PASS
			MCH	RB1#0	4.54	13	PASS
				RB1#13	4.56	13	PASS
				RB1#24	4.6	13	PASS
				RB12#0	5.76	13	PASS
				RB12#6	5.75	13	PASS
				RB12#13	5.63	13	PASS
				RB25#0	6.13	13	PASS
			HCH	RB1#0	4.72	13	PASS
				RB1#13	4.43	13	PASS
				RB1#24	4.21	13	PASS
				RB12#0	5.51	13	PASS
				RB12#6	5.4	13	PASS
				RB12#13	5.46	13	PASS
				RB25#0	5.78	13	PASS
		10	LCH	RB1#0	4.38	13	PASS
				RB1#25	4.63	13	PASS
				RB1#49	4.59	13	PASS
				RB25#0	5.75	13	PASS
				RB25#13	5.83	13	PASS
				RB25#25	5.77	13	PASS
				RB50#0	6.13	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.63	13	PASS
				RB1#25	4.52	13	PASS
				RB1#49	4.58	13	PASS
				RB25#0	5.99	13	PASS
				RB25#13	5.86	13	PASS
				RB25#25	5.7	13	PASS
				RB50#0	6.03	13	PASS
			HCH	RB1#0	4.59	13	PASS
				RB1#25	4.39	13	PASS
				RB1#49	4.02	13	PASS
				RB25#0	5.6	13	PASS
				RB25#13	5.58	13	PASS
				RB25#25	5.61	13	PASS
				RB50#0	5.94	13	PASS
		15	LCH	RB1#0	4.45	13	PASS
				RB1#38	4.65	13	PASS
				RB1#74	4.68	13	PASS
				RB38#0	5.93	13	PASS
				RB38#19	5.88	13	PASS
				RB38#39	5.97	13	PASS
				RB75#0	6.44	13	PASS
			MCH	RB1#0	4.66	13	PASS
				RB1#38	4.62	13	PASS
				RB1#74	4.55	13	PASS
				RB38#0	6.09	13	PASS
				RB38#19	6.01	13	PASS
				RB38#39	5.91	13	PASS
				RB75#0	6.37	13	PASS
			HCH	RB1#0	4.68	13	PASS
				RB1#38	4.71	13	PASS
				RB1#74	4.18	13	PASS
				RB38#0	5.84	13	PASS
				RB38#19	5.73	13	PASS
				RB38#39	5.83	13	PASS
				RB75#0	6.11	13	PASS
		20	LCH	RB1#0	4.71	13	PASS
				RB1#50	4.4	13	PASS
				RB1#99	4.76	13	PASS
				RB50#0	5.95	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#25	5.98	13	PASS
				RB50#50	6.06	13	PASS
				RB100#0	6.22	13	PASS
			MCH	RB1#0	4.76	13	PASS
				RB1#50	4.57	13	PASS
				RB1#99	4.62	13	PASS
				RB50#0	6.09	13	PASS
				RB50#25	6.06	13	PASS
				RB50#50	5.88	13	PASS
				RB100#0	6.24	13	PASS
			HCH	RB1#0	4.85	13	PASS
				RB1#50	4.34	13	PASS
				RB1#99	4.43	13	PASS
				RB50#0	5.8	13	PASS
				RB50#25	5.74	13	PASS
				RB50#50	5.89	13	PASS
				RB100#0	6.31	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.24	13	PASS
				RB1#3	5.29	13	PASS
				RB1#5	5.24	13	PASS
				RB3#0	5.69	13	PASS
				RB3#2	5.59	13	PASS
				RB3#3	5.65	13	PASS
				RB6#0	6.03	13	PASS
			MCH	RB1#0	5.61	13	PASS
				RB1#3	5.72	13	PASS
				RB1#5	5.6	13	PASS
				RB3#0	5.68	13	PASS
				RB3#2	5.8	13	PASS
				RB3#3	5.78	13	PASS
				RB6#0	6.04	13	PASS
		3	HCH	RB1#0	4.77	13	PASS
				RB1#3	4.67	13	PASS
				RB1#5	4.67	13	PASS
				RB3#0	5.34	13	PASS
				RB3#2	5.37	13	PASS
				RB3#3	5.39	13	PASS
				RB6#0	5.84	13	PASS
		3	LCH	RB1#0	5.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#7	5.34	13	PASS
				RB1#14	5.8	13	PASS
				RB8#0	5.92	13	PASS
				RB8#4	5.94	13	PASS
				RB8#7	6.09	13	PASS
				RB15#0	6.33	13	PASS
			MCH	RB1#0	5.63	13	PASS
				RB1#7	5.28	13	PASS
				RB1#14	5.61	13	PASS
				RB8#0	6.04	13	PASS
				RB8#4	6.2	13	PASS
				RB8#7	6.18	13	PASS
				RB15#0	6.18	13	PASS
			HCH	RB1#0	5.15	13	PASS
				RB1#7	4.85	13	PASS
				RB1#14	5.06	13	PASS
				RB8#0	5.67	13	PASS
				RB8#4	5.63	13	PASS
				RB8#7	5.65	13	PASS
				RB15#0	5.94	13	PASS
		5	LCH	RB1#0	5.41	13	PASS
				RB1#13	5.62	13	PASS
				RB1#24	5.59	13	PASS
				RB12#0	5.97	13	PASS
				RB12#6	5.98	13	PASS
				RB12#13	6.08	13	PASS
				RB25#0	6.57	13	PASS
			MCH	RB1#0	5.36	13	PASS
				RB1#13	5.67	13	PASS
				RB1#24	5.56	13	PASS
				RB12#0	5.98	13	PASS
				RB12#6	5.96	13	PASS
				RB12#13	6.03	13	PASS
				RB25#0	6.38	13	PASS
			HCH	RB1#0	5.13	13	PASS
				RB1#13	5.1	13	PASS
				RB1#24	4.78	13	PASS
				RB12#0	5.78	13	PASS
				RB12#6	5.62	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10		RB12#13	5.66	13	PASS
				RB25#0	6.23	13	PASS
			LCH	RB1#0	5.26	13	PASS
				RB1#25	5.36	13	PASS
				RB1#49	5.34	13	PASS
				RB25#0	6.26	13	PASS
				RB25#13	6.18	13	PASS
				RB25#25	6.31	13	PASS
				RB50#0	6.53	13	PASS
			MCH	RB1#0	5.58	13	PASS
				RB1#25	5.63	13	PASS
				RB1#49	5.72	13	PASS
				RB25#0	6.55	13	PASS
				RB25#13	6.35	13	PASS
				RB25#25	6.21	13	PASS
				RB50#0	6.76	13	PASS
			HCH	RB1#0	5.24	13	PASS
				RB1#25	5.03	13	PASS
				RB1#49	4.8	13	PASS
				RB25#0	5.89	13	PASS
				RB25#13	5.9	13	PASS
				RB25#25	5.92	13	PASS
				RB50#0	6.49	13	PASS
		15	LCH	RB1#0	5.46	13	PASS
				RB1#38	5.76	13	PASS
				RB1#74	5.6	13	PASS
				RB38#0	6.21	13	PASS
				RB38#19	6.25	13	PASS
				RB38#39	6.35	13	PASS
				RB75#0	6.84	13	PASS
			MCH	RB1#0	5.5	13	PASS
				RB1#38	5.65	13	PASS
				RB1#74	5.65	13	PASS
				RB38#0	6.47	13	PASS
				RB38#19	6.46	13	PASS
				RB38#39	6.27	13	PASS
				RB75#0	6.9	13	PASS
			HCH	RB1#0	5.35	13	PASS
				RB1#38	5.28	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#74	4.86	13	PASS
				RB38#0	6.11	13	PASS
				RB38#19	6.04	13	PASS
				RB38#39	6.16	13	PASS
				RB75#0	6.57	13	PASS
		20	LCH	RB1#0	5.25	13	PASS
				RB1#50	5.47	13	PASS
				RB1#99	5.58	13	PASS
				RB50#0	6.27	13	PASS
				RB50#25	6.34	13	PASS
				RB50#50	6.44	13	PASS
				RB100#0	6.93	13	PASS
			MCH	RB1#0	5.65	13	PASS
				RB1#50	5.56	13	PASS
				RB1#99	5.67	13	PASS
				RB50#0	6.57	13	PASS
				RB50#25	6.3	13	PASS
				RB50#50	6.24	13	PASS
				RB100#0	6.72	13	PASS
			HCH	RB1#0	5.39	13	PASS
				RB1#50	5.14	13	PASS
				RB1#99	5.02	13	PASS
				RB50#0	6.17	13	PASS
				RB50#25	6.17	13	PASS
				RB50#50	6.22	13	PASS
				RB100#0	6.78	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

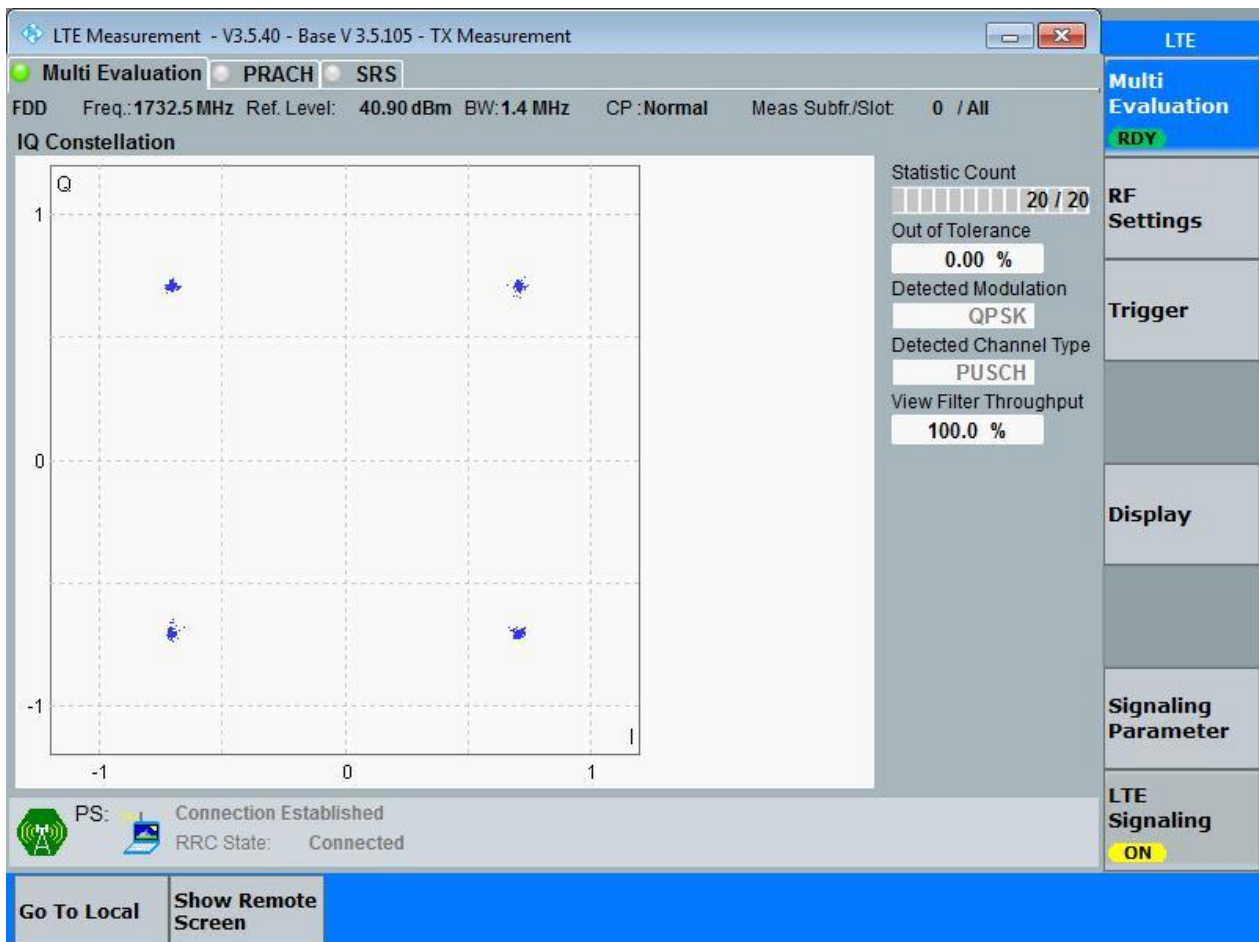
3.1.1 Test Band = BAND4

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

3.1.1.1.1.1 Test Channel = MCH

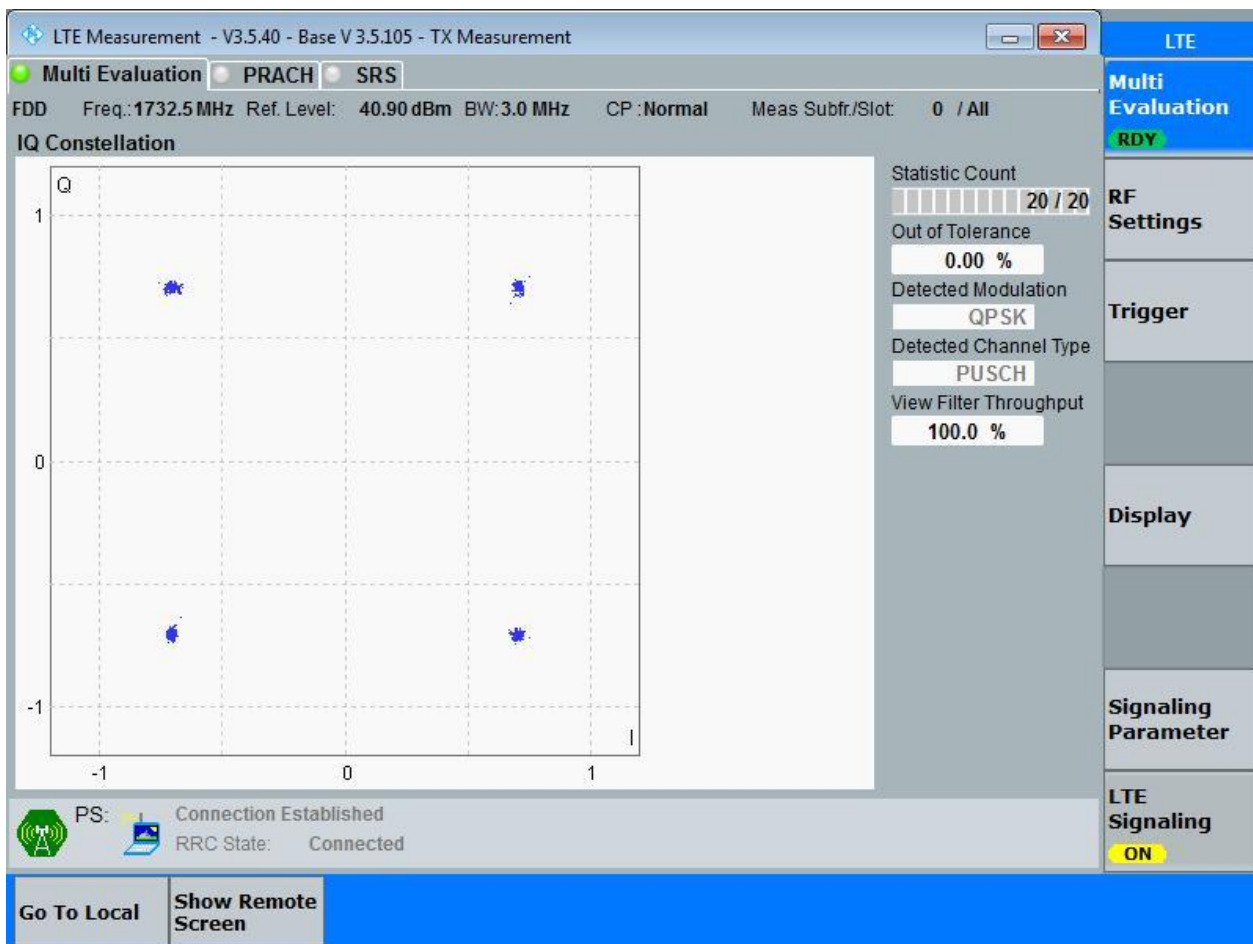
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

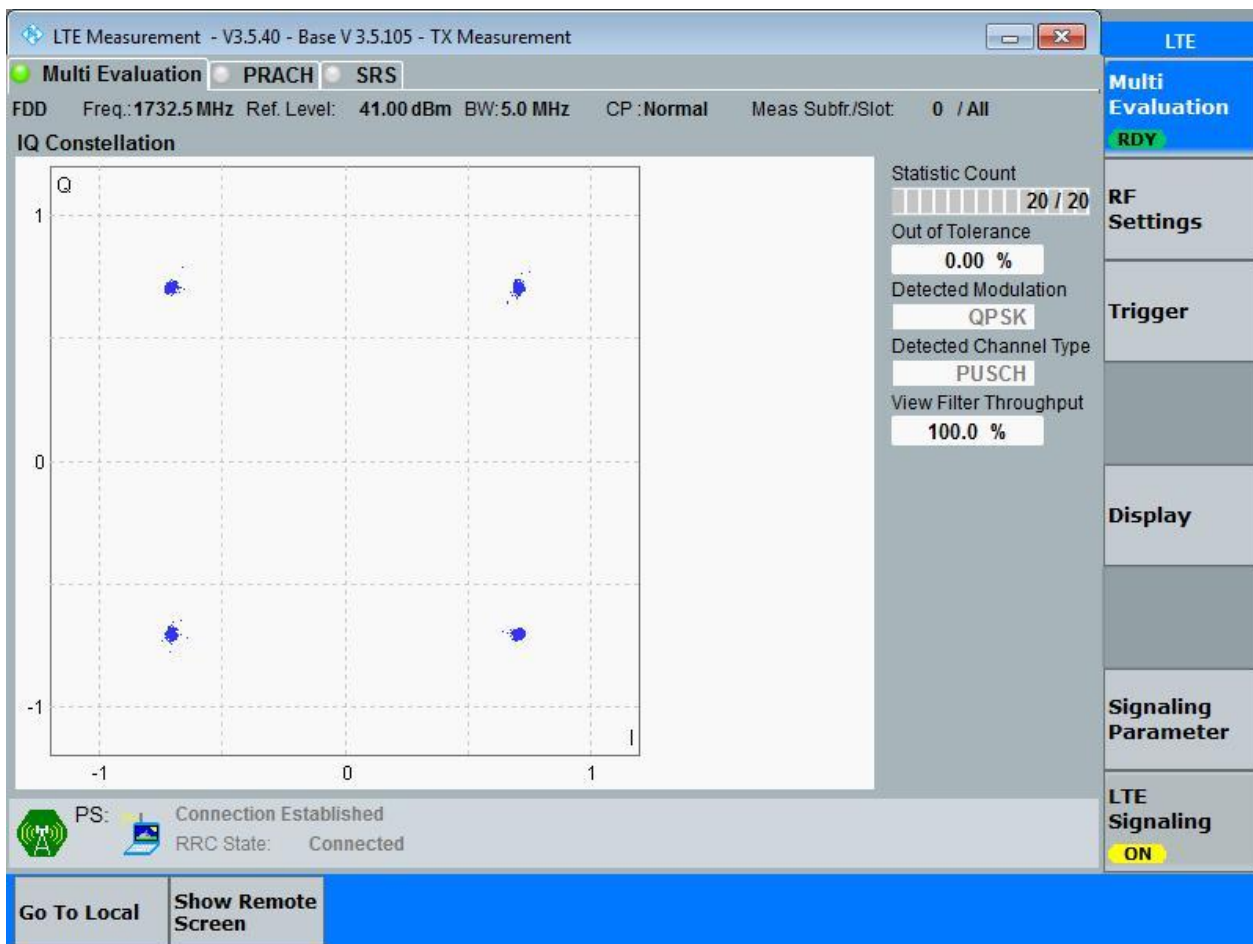
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

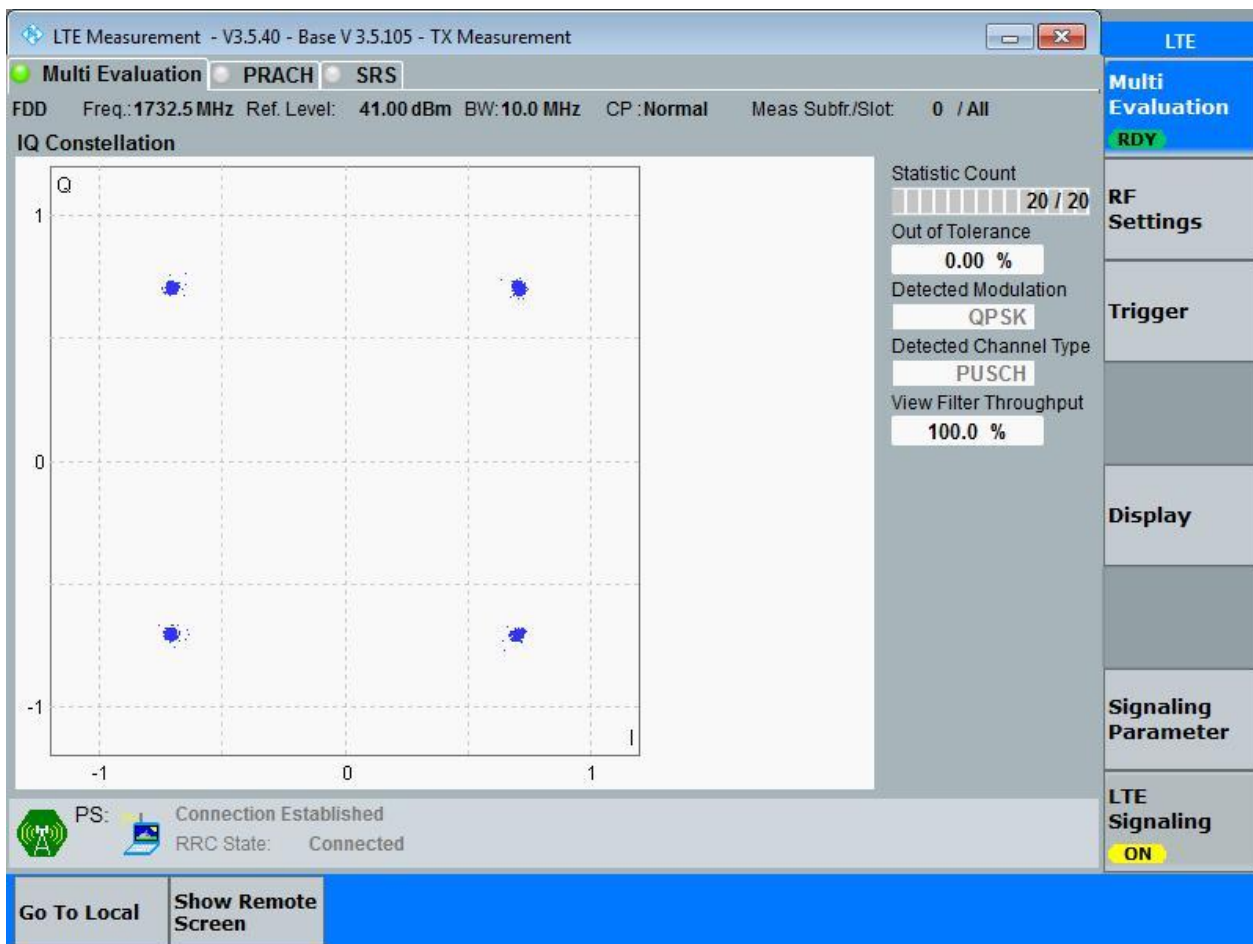
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

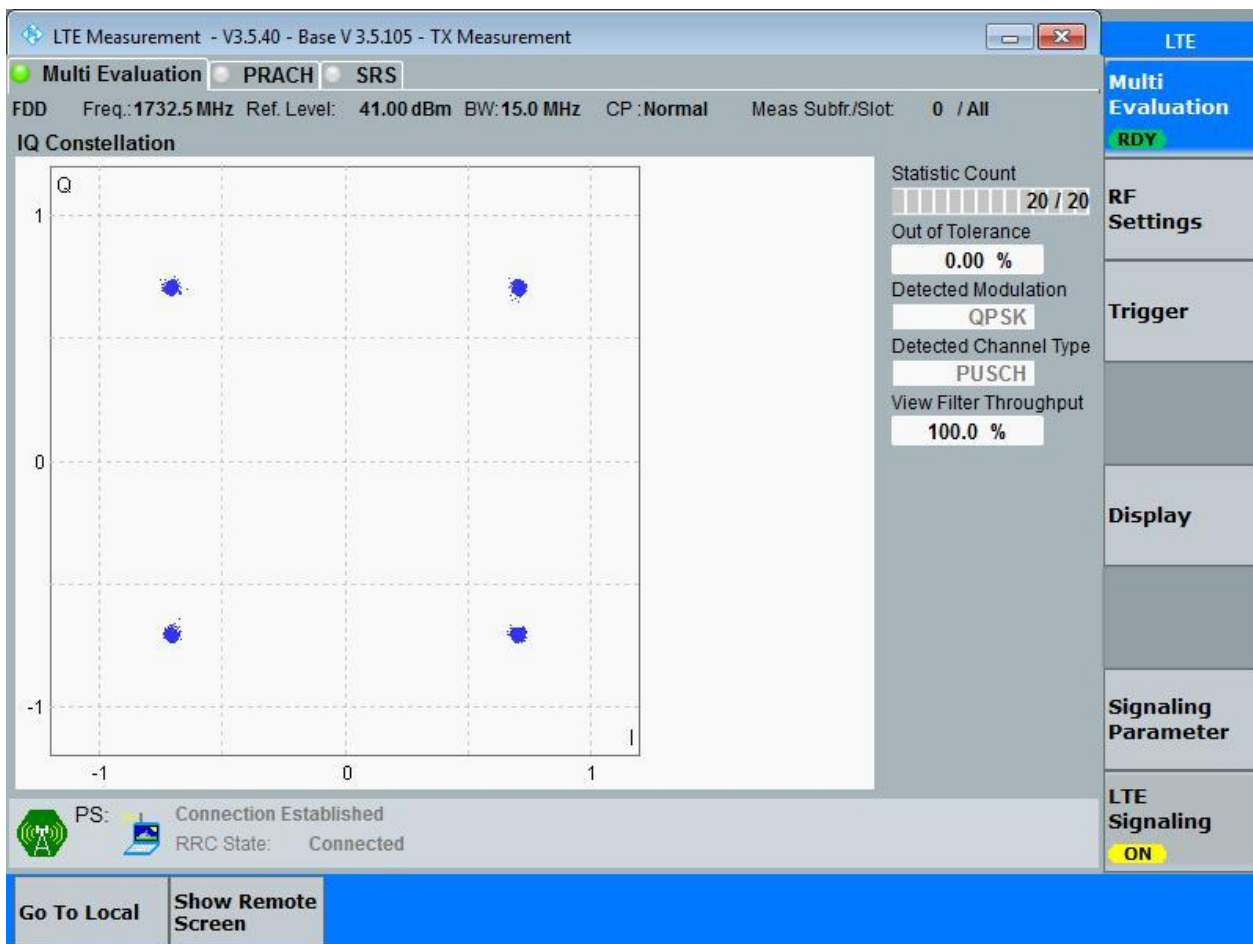
3.1.1.1.4.1.1 Test RB = RB50#0



3.1.1.1.5 Test Bandwidth = 15

3.1.1.1.5.1 Test Channel = MCH

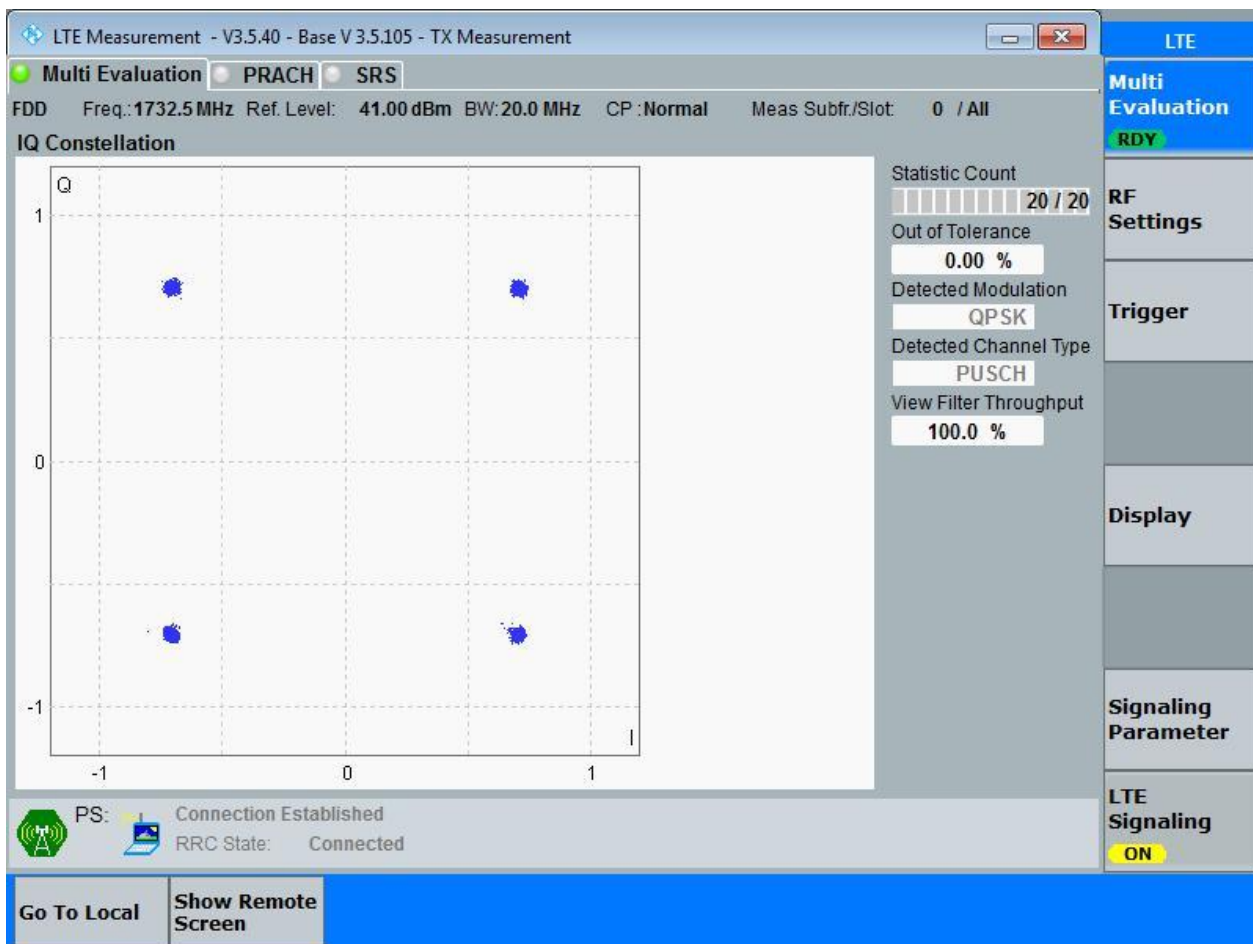
3.1.1.1.5.1.1 Test RB = RB75#0



3.1.1.1.6 Test Bandwidth = 20

3.1.1.1.6.1 Test Channel = MCH

3.1.1.1.6.1.1 Test RB = RB100#0

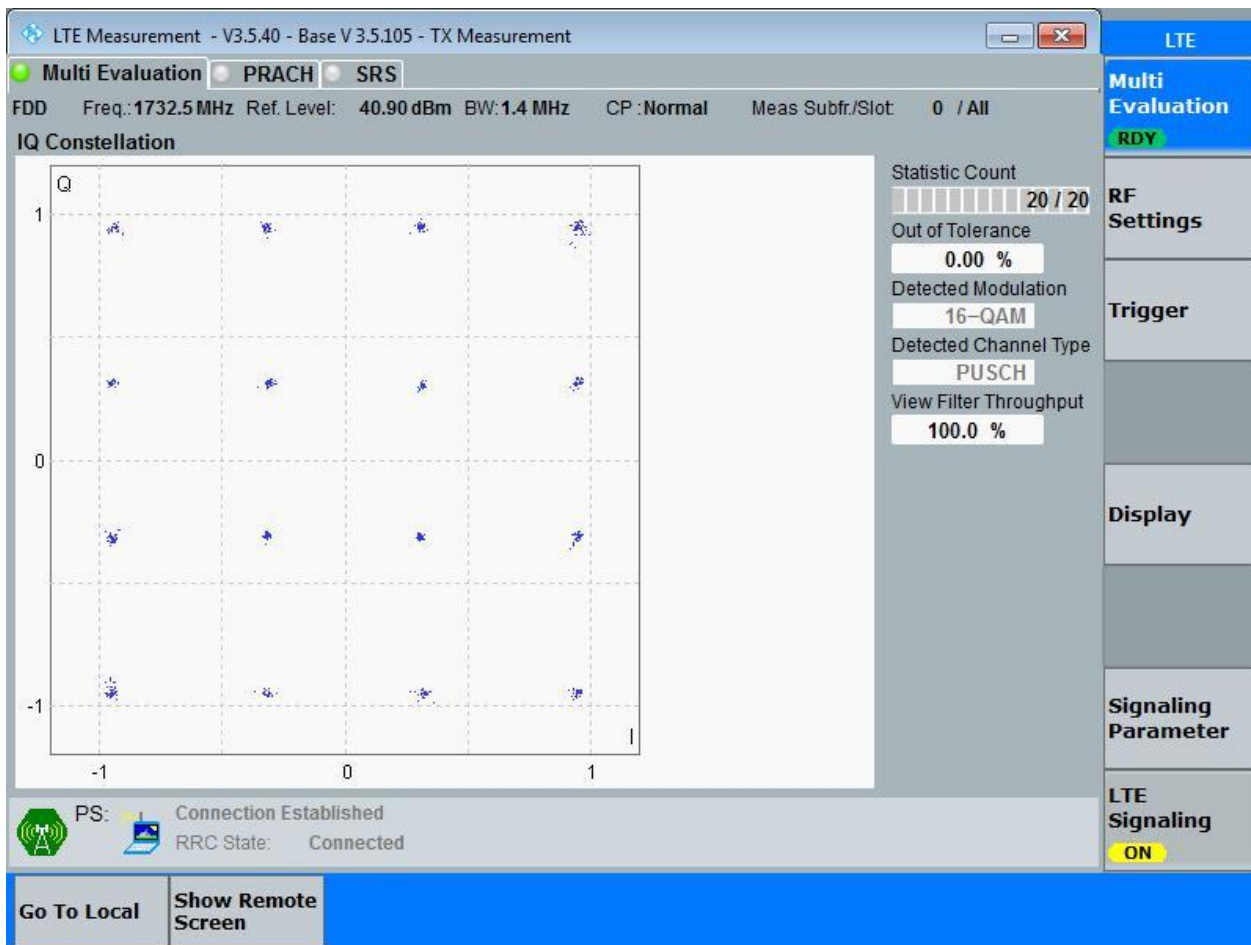


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

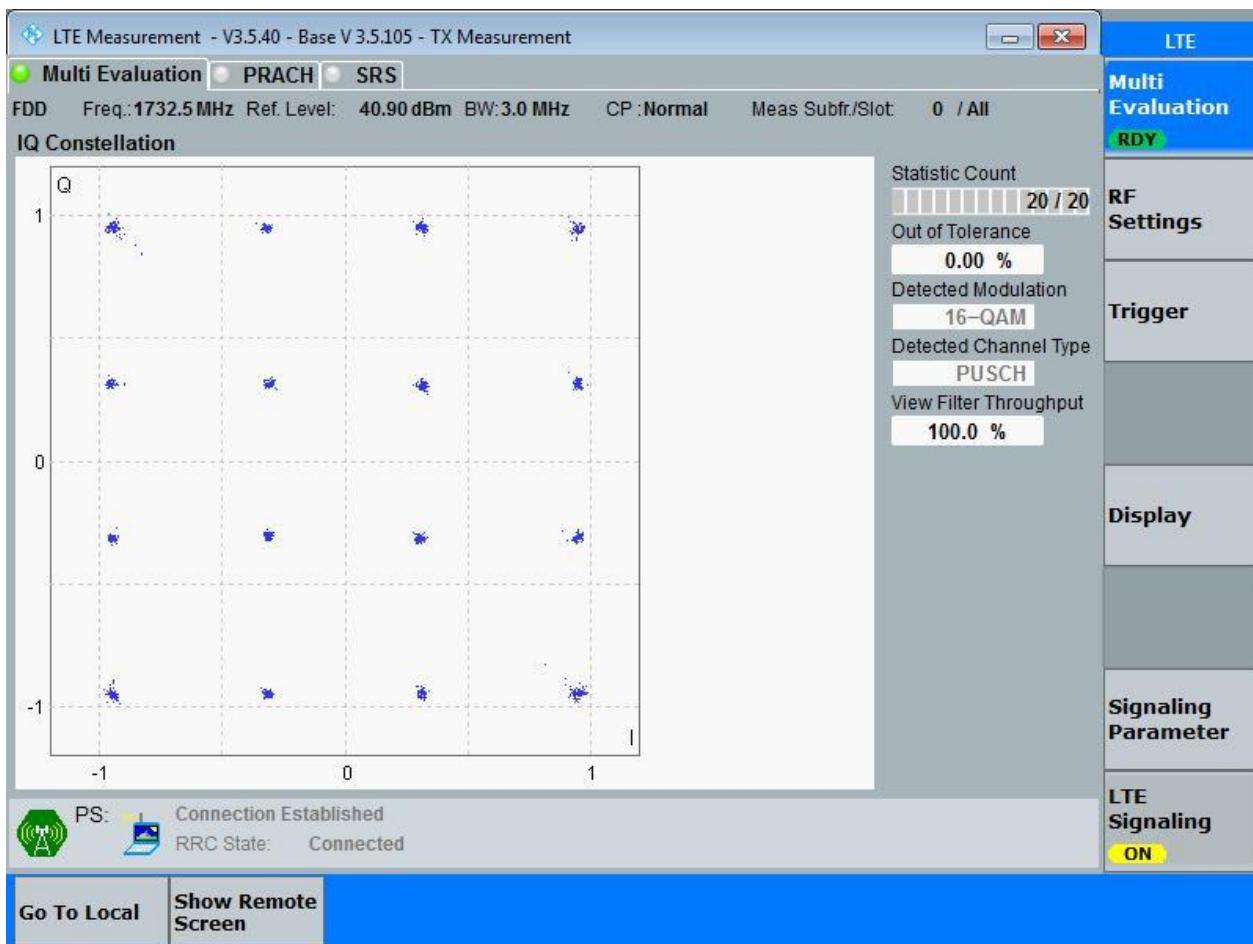
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

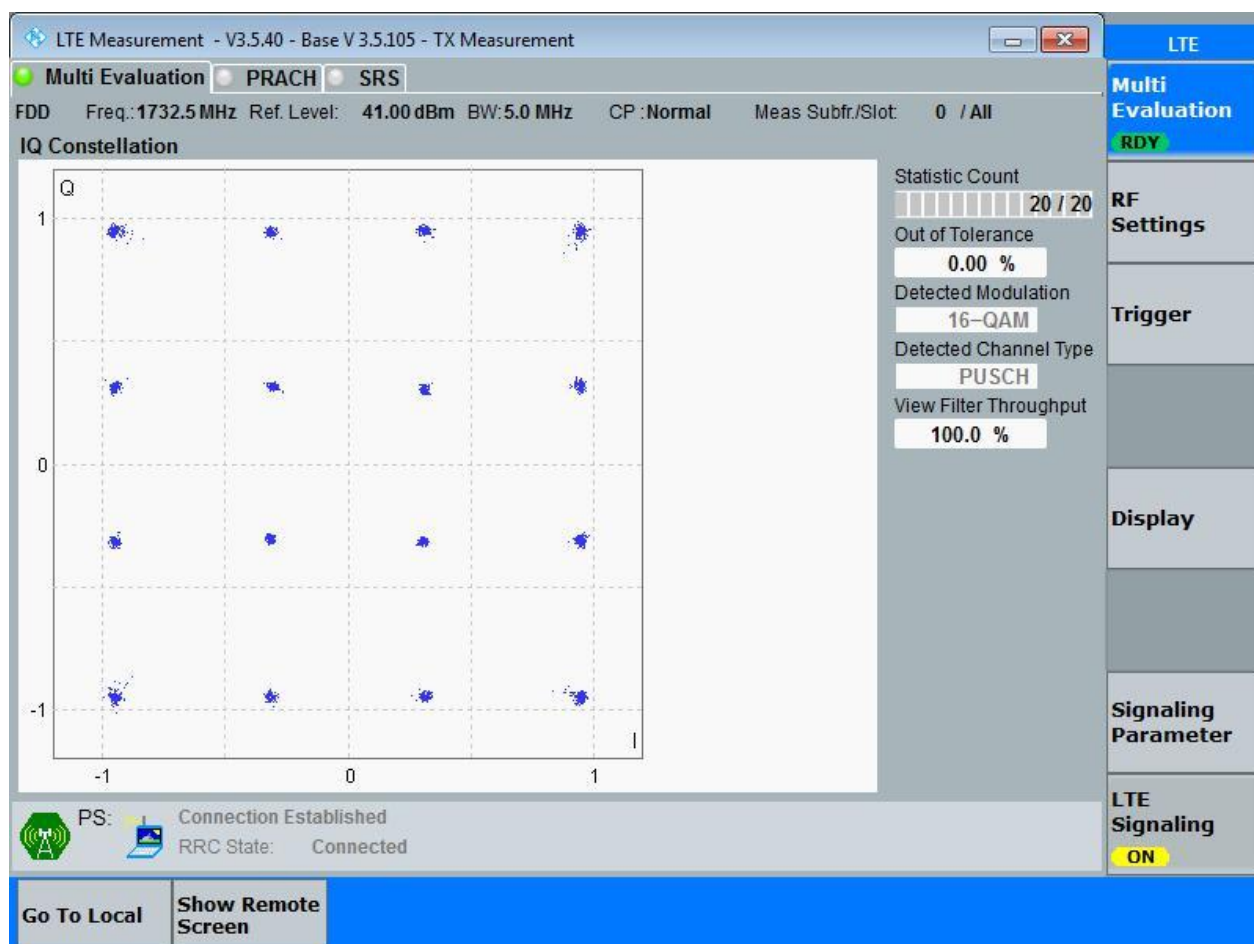
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

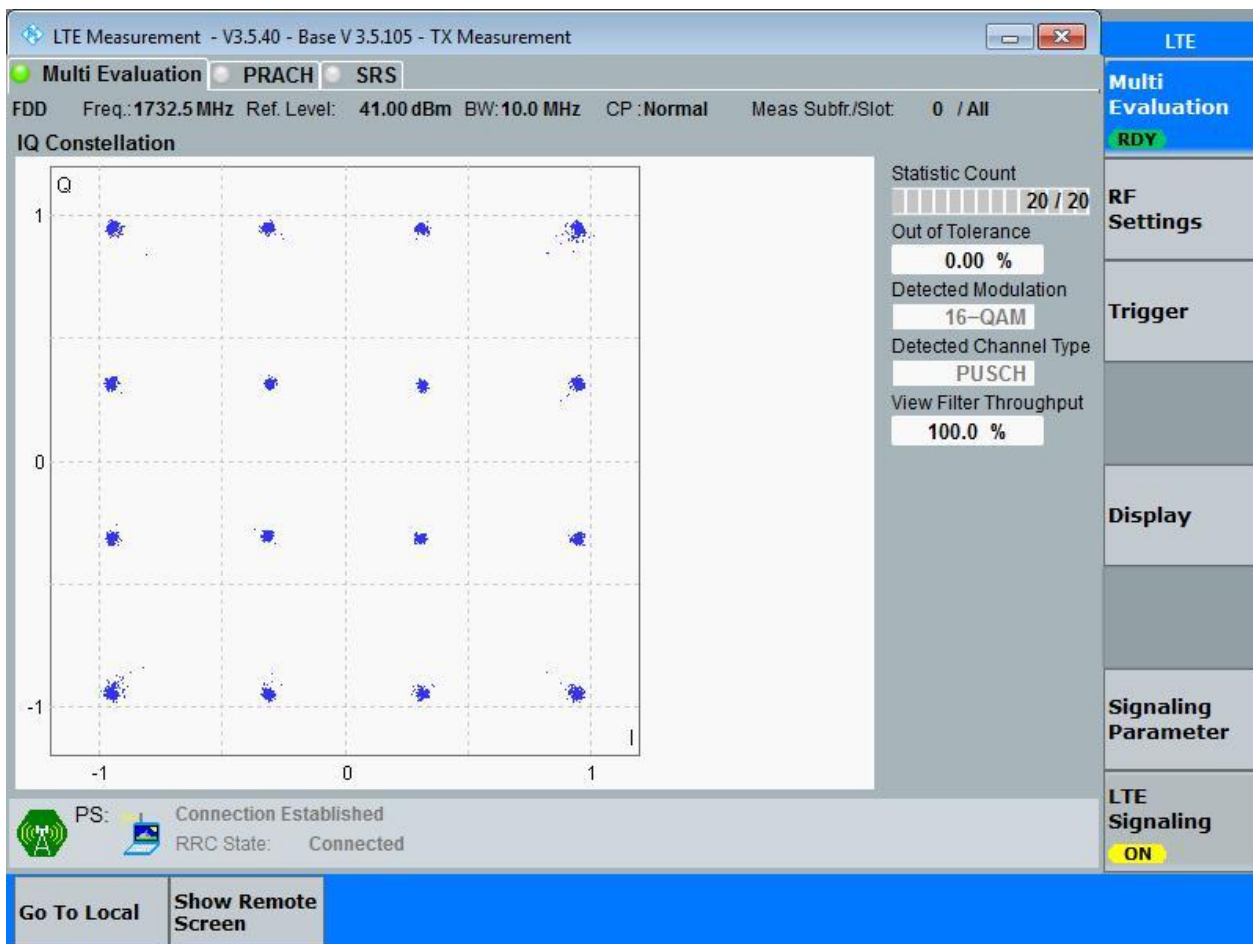
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

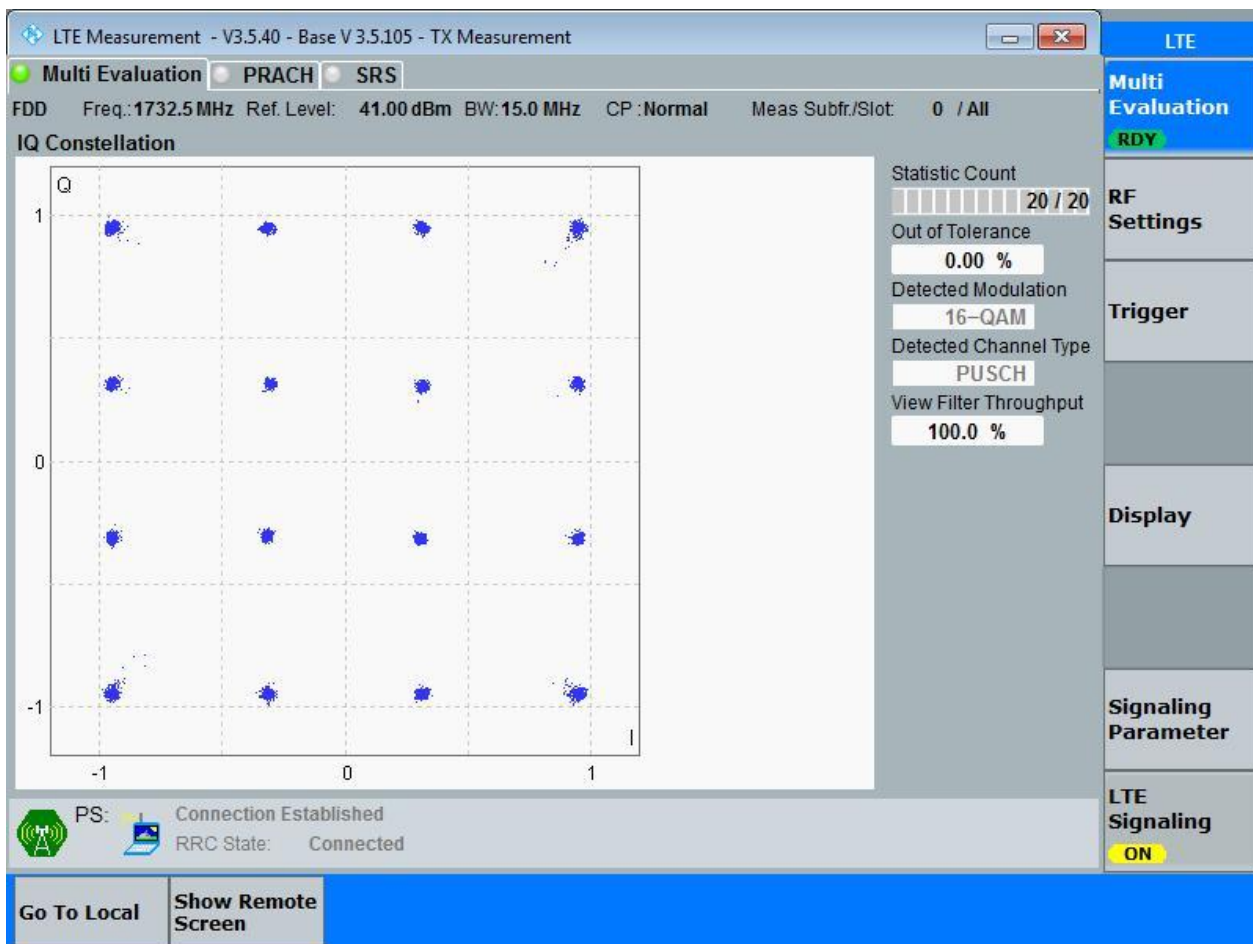
3.1.1.2.4.1.1 Test RB = RB50#0



3.1.1.2.5 Test Bandwidth = 15

3.1.1.2.5.1 Test Channel = MCH

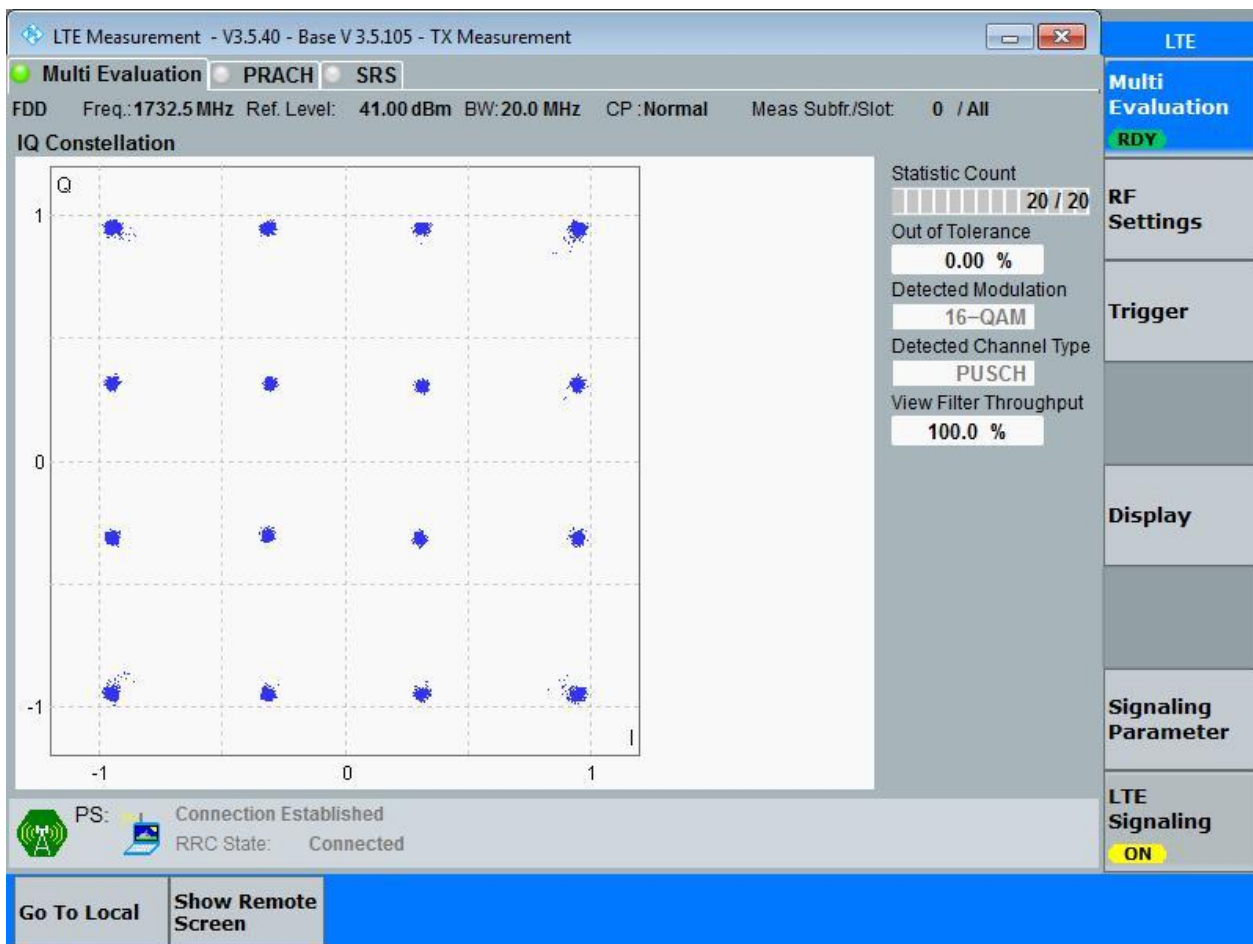
3.1.1.2.5.1.1 Test RB = RB75#0



3.1.1.2.6 Test Bandwidth = 20

3.1.1.2.6.1 Test Channel = MCH

3.1.1.2.6.1.1 Test RB = RB100#0



4Appendix_D: Bandwidth

Part I - Test Results

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	1.23	Pass
			MCH	RB6#0	1.10	1.23	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.71	2.98	Pass
		5	LCH	RB25#0	4.51	4.97	Pass
			MCH	RB25#0	4.51	4.98	Pass
			HCH	RB25#0	4.51	4.95	Pass
		10	LCH	RB50#0	8.98	9.95	Pass
			MCH	RB50#0	8.98	9.87	Pass
			HCH	RB50#0	9.01	9.93	Pass
		15	LCH	RB75#0	13.51	15.06	Pass
			MCH	RB75#0	13.49	15.03	Pass
			HCH	RB75#0	13.50	15.06	Pass
		20	LCH	RB100#0	18.04	19.97	Pass
			MCH	RB100#0	17.97	19.78	Pass
			HCH	RB100#0	18.02	19.91	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	2.97	Pass
			HCH	RB15#0	2.70	2.99	Pass
		5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.51	4.98	Pass
		10	LCH	RB50#0	9.01	9.92	Pass
			MCH	RB50#0	8.99	9.88	Pass
			HCH	RB50#0	8.99	9.90	Pass

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		15	LCH	RB75#0	13.51	15.29	Pass
			MCH	RB75#0	13.49	15.00	Pass
			HCH	RB75#0	13.53	15.07	Pass
		20	LCH	RB100#0	18.02	19.79	Pass
			MCH	RB100#0	17.98	19.75	Pass
			HCH	RB100#0	18.03	19.85	Pass



Part II - Test Plots

4.1 For LTE

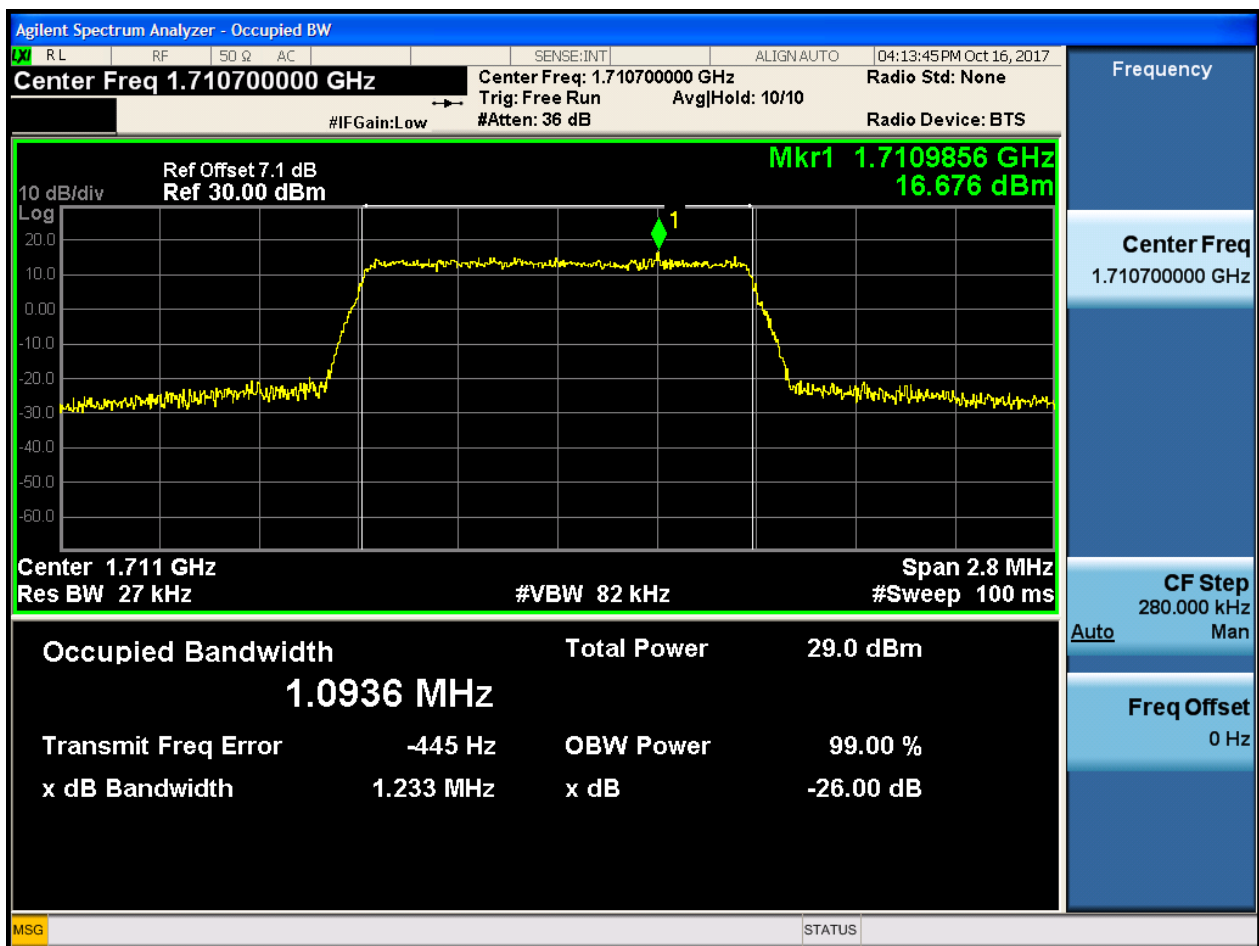
4.1.1 Test Band = BAND4

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

4.1.1.1.1.1 Test Channel = LCH

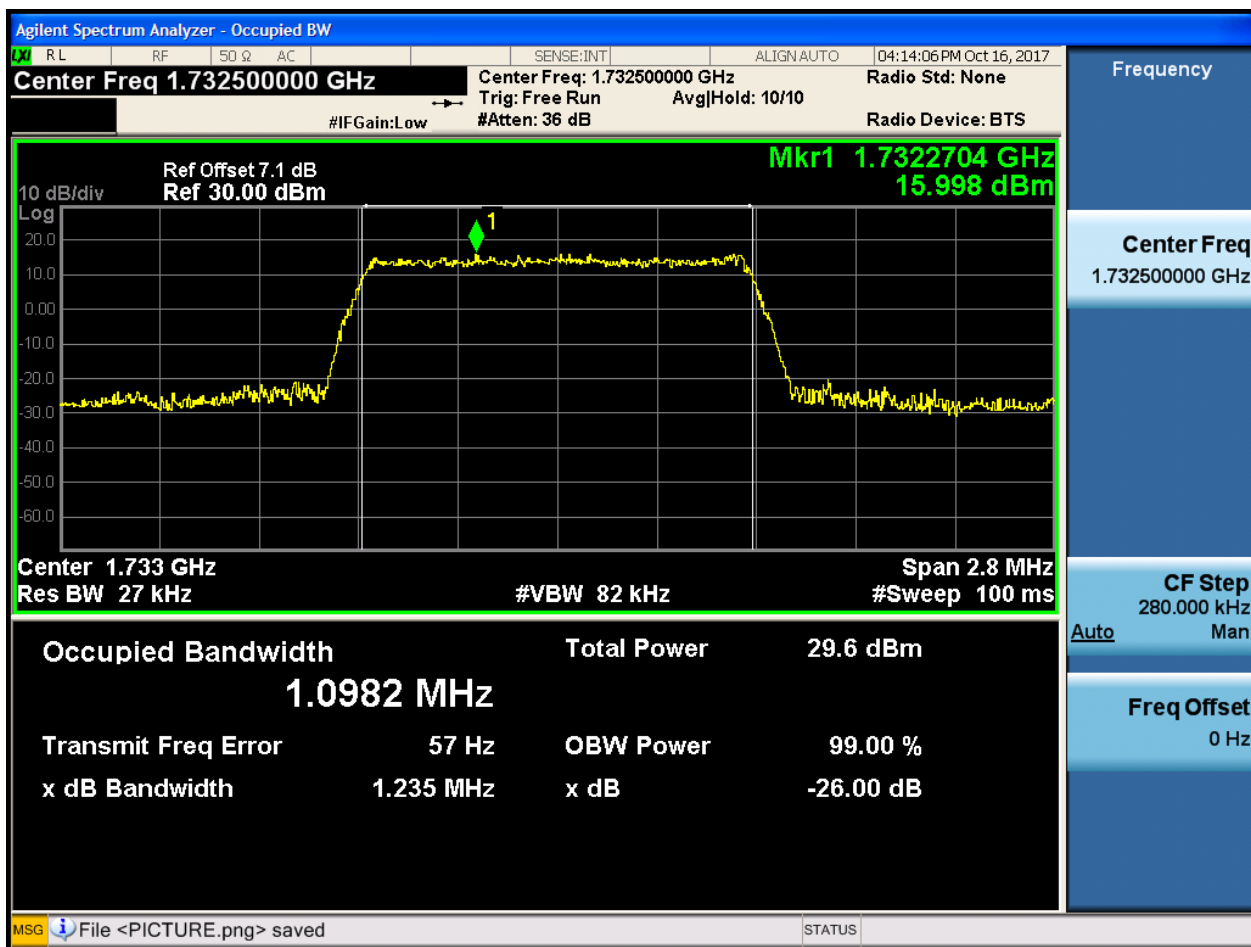
4.1.1.1.1.1.1 Test RB = RB6#0





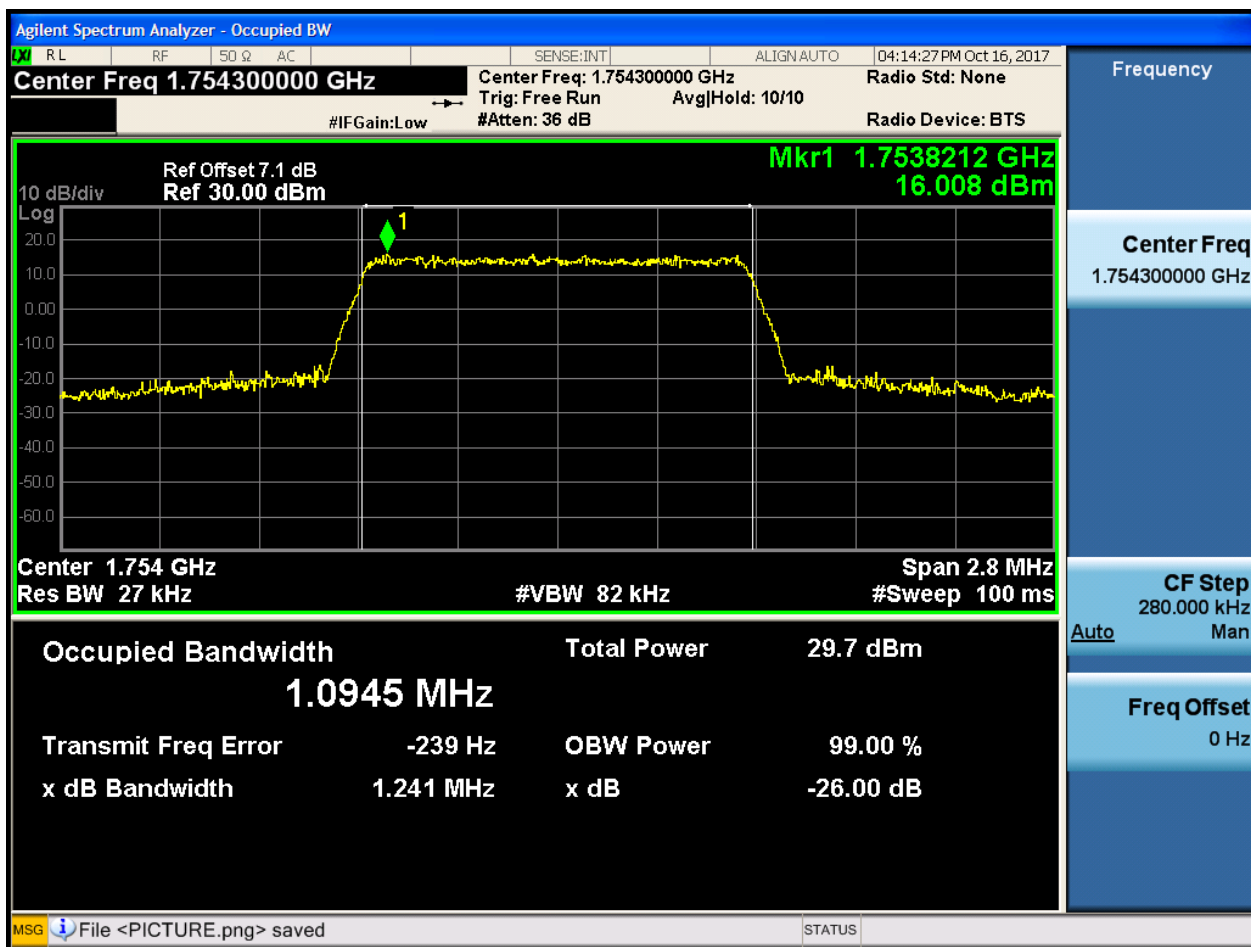
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0



4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

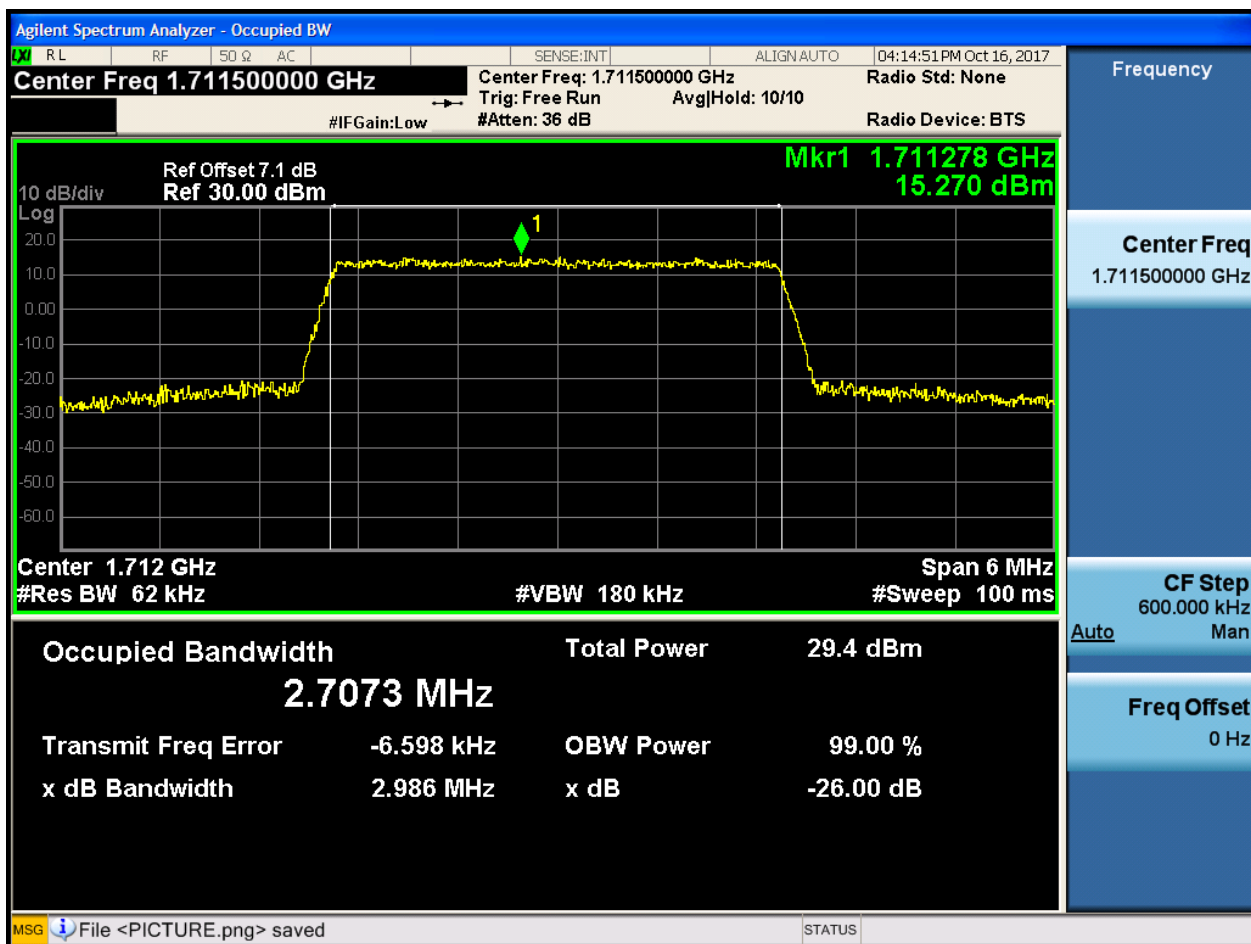




4.1.1.1.2 Test Bandwidth = 3

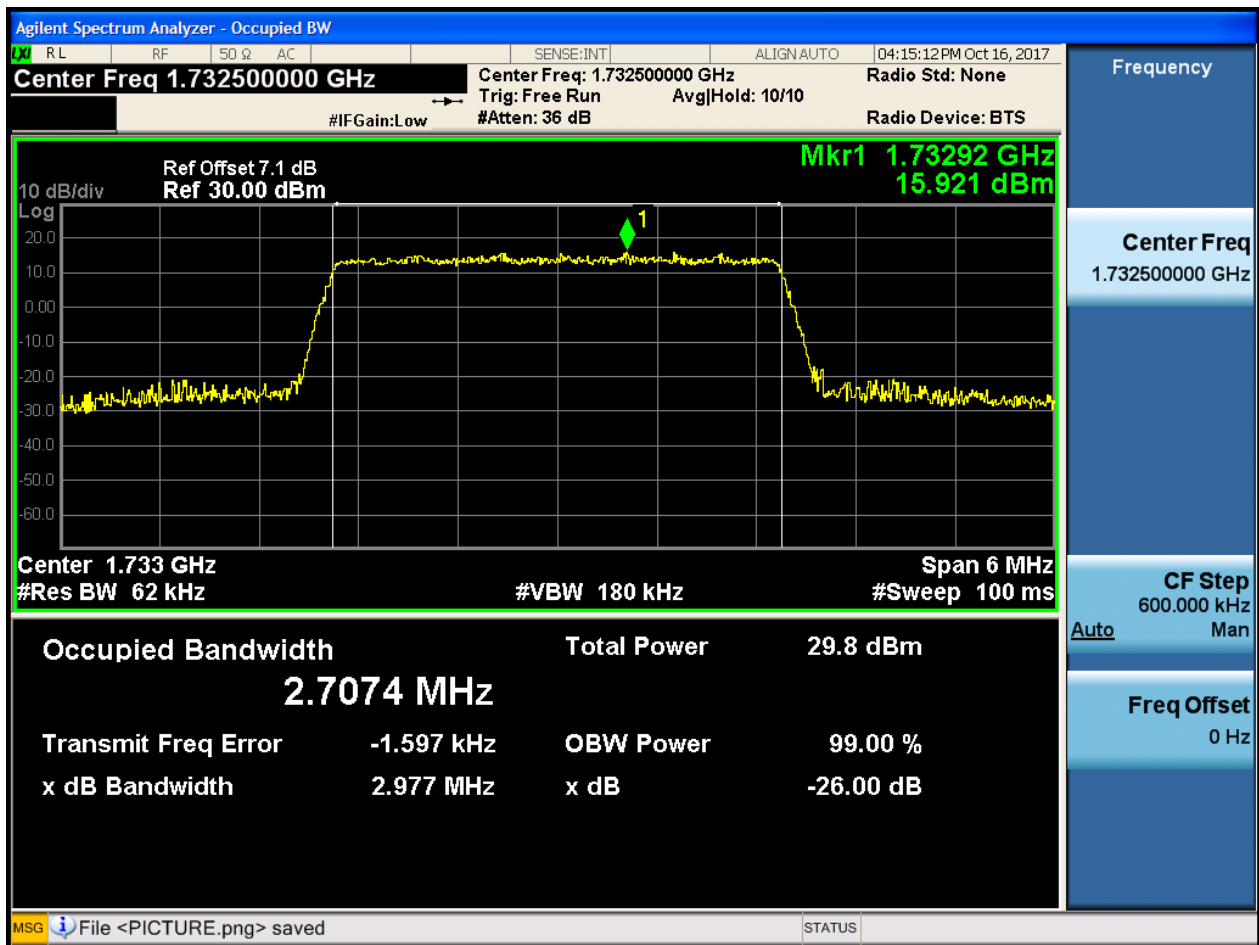
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



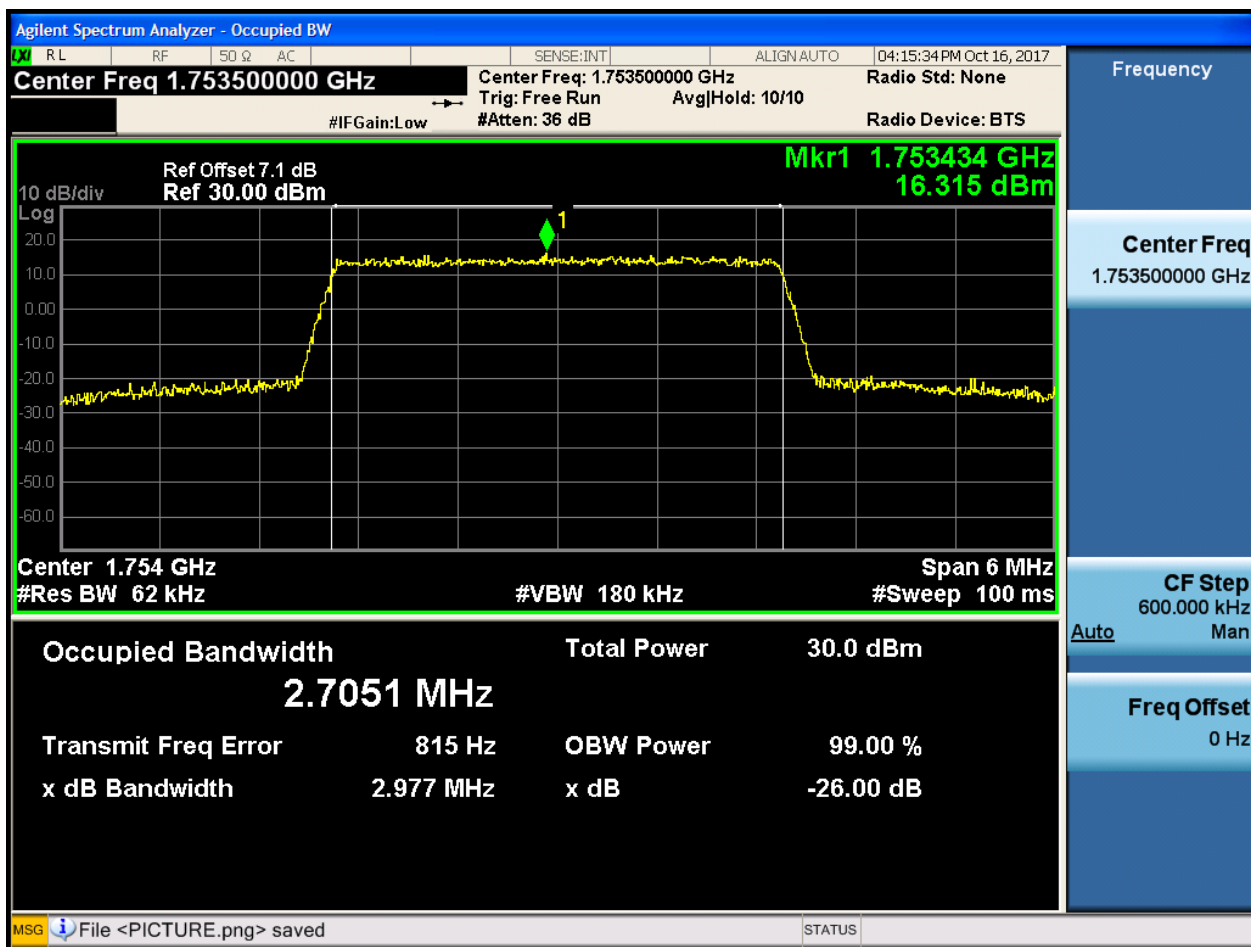
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB15#0



4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

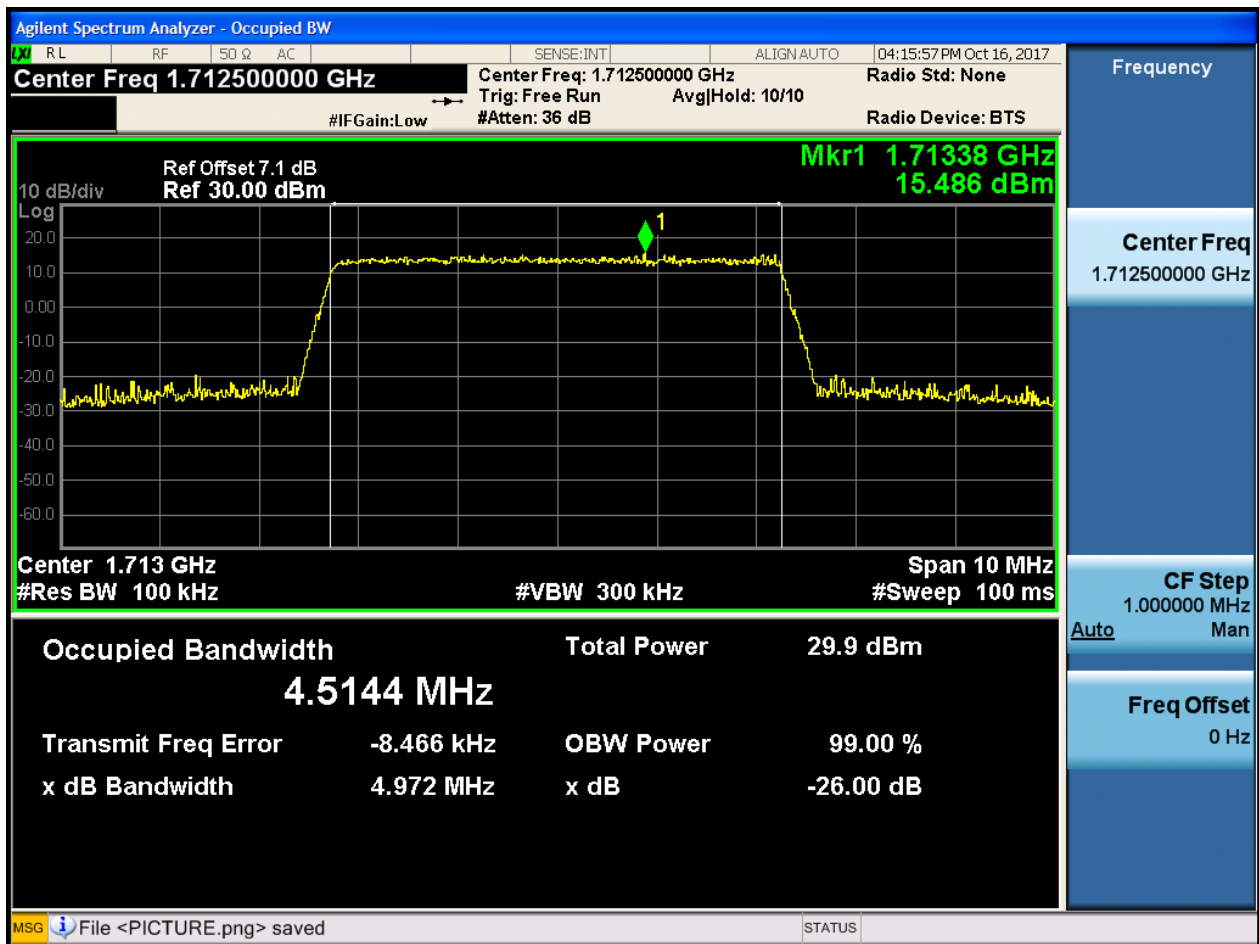




4.1.1.1.3 Test Bandwidth = 5

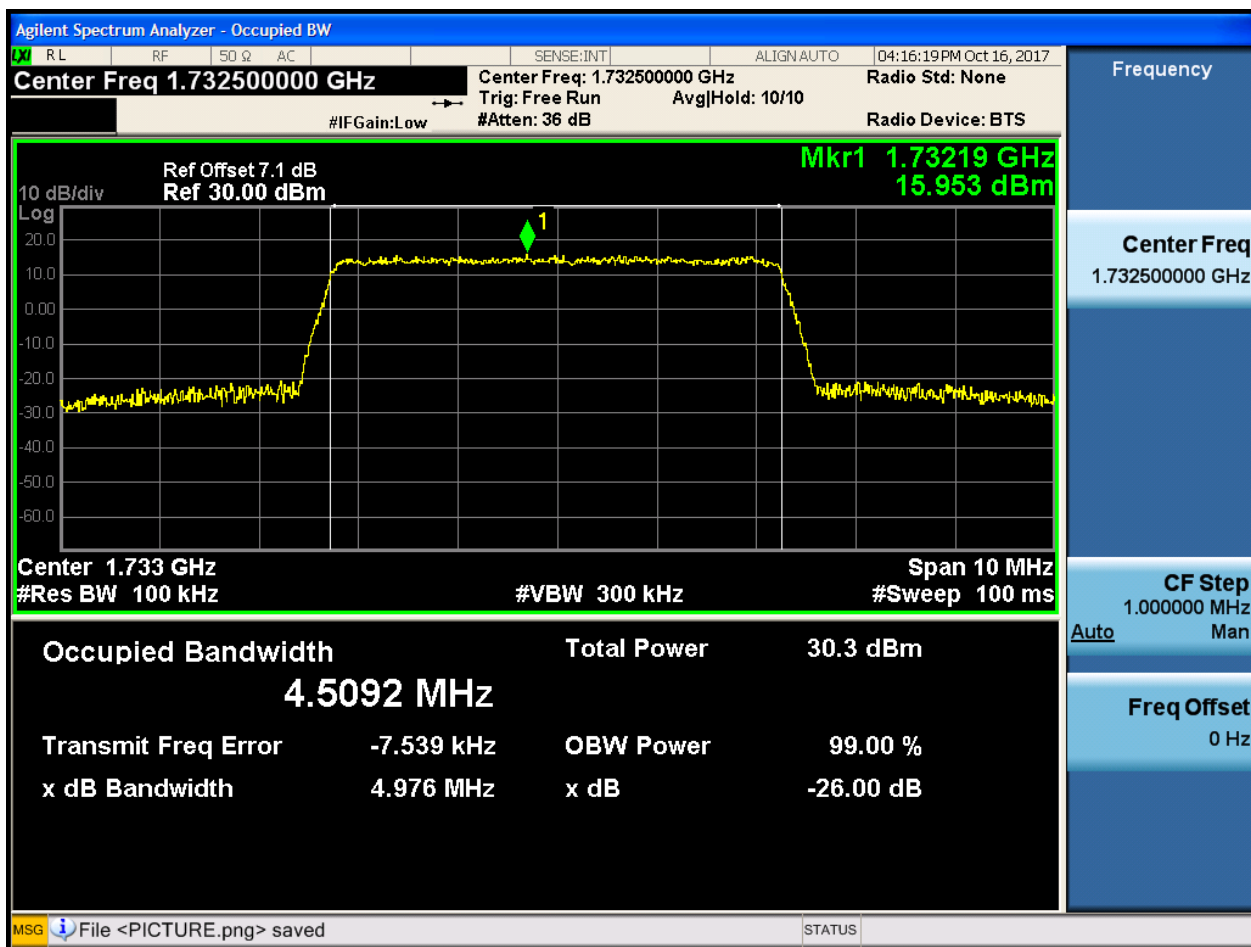
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



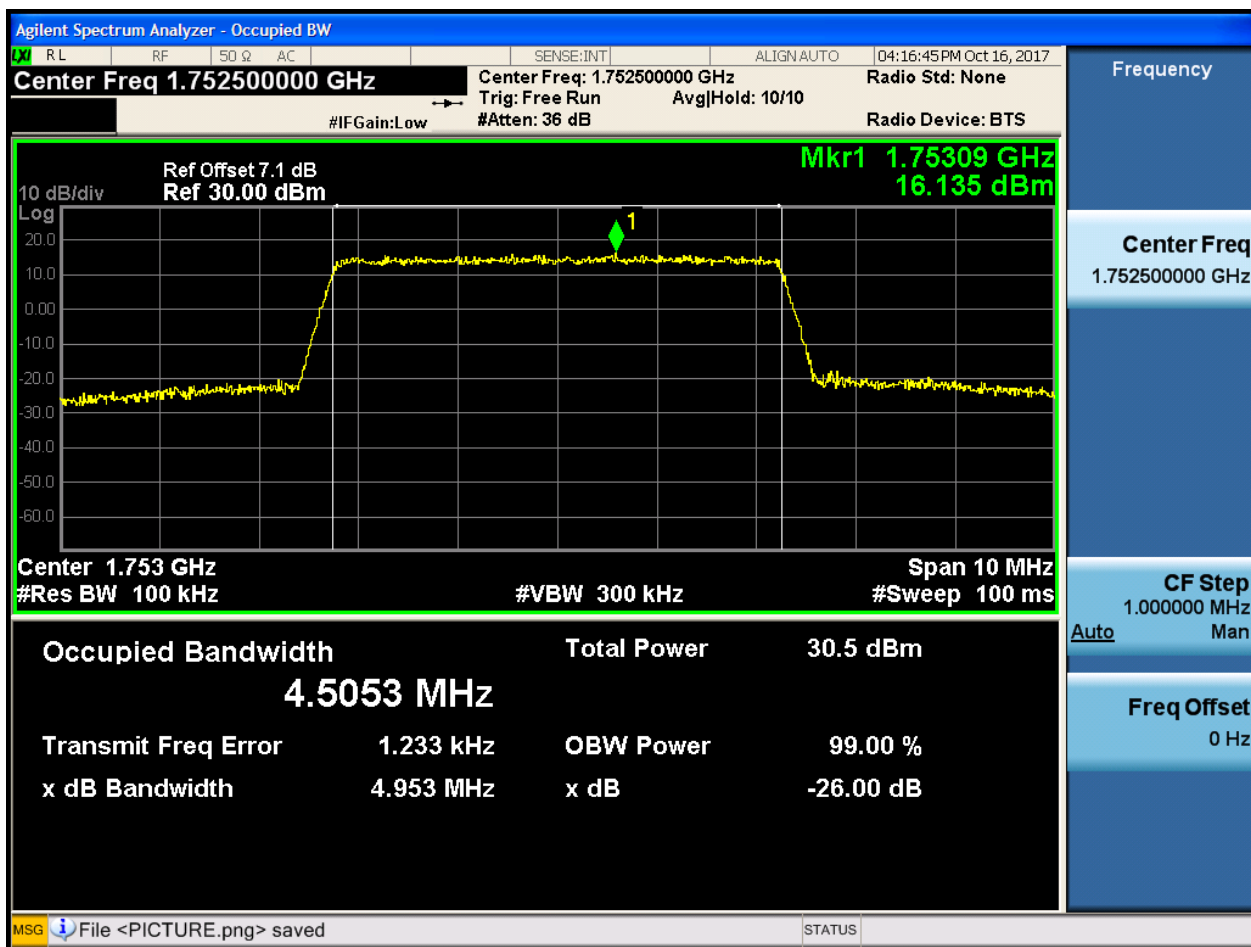
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB25#0



4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

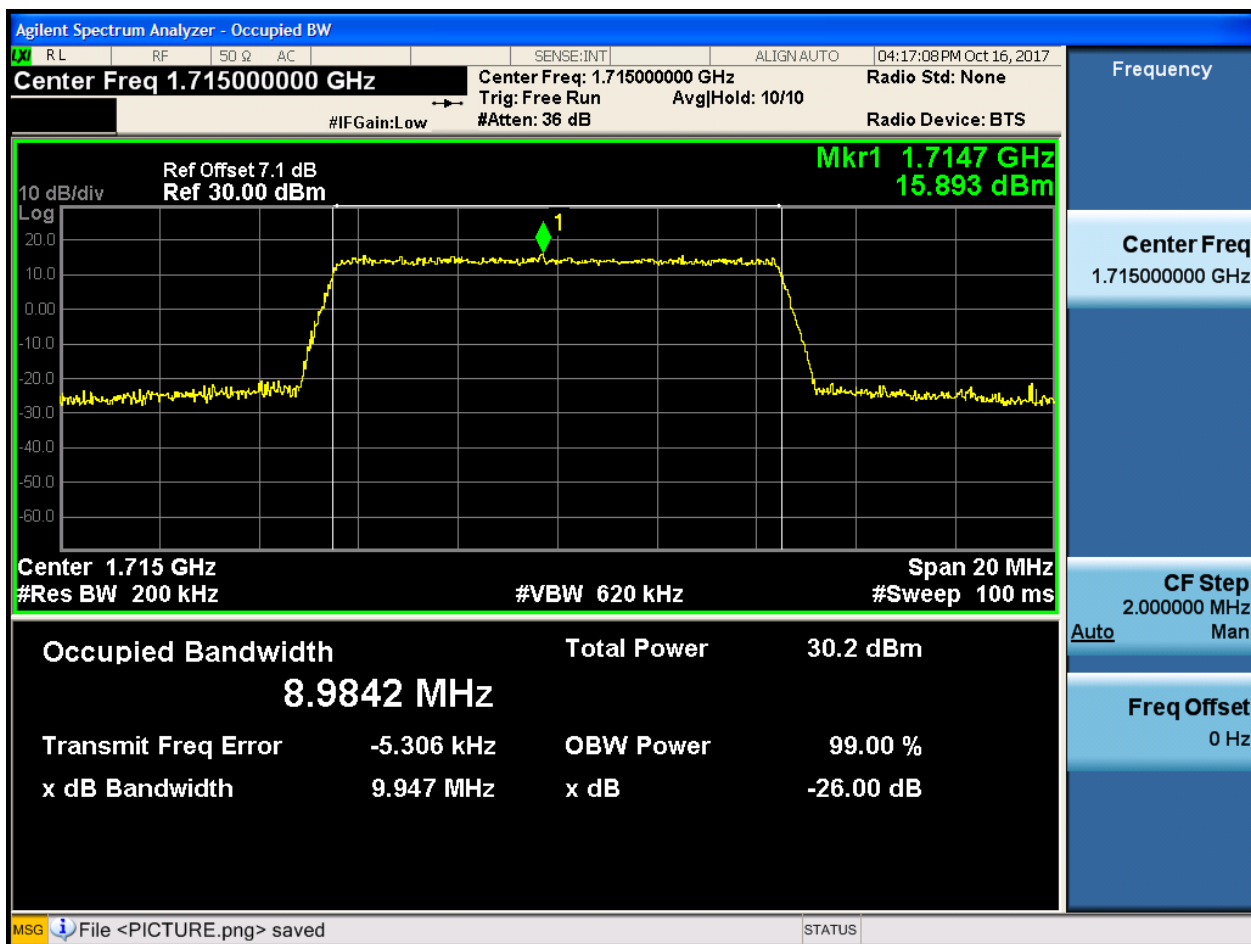




4.1.1.1.4 Test Bandwidth = 10

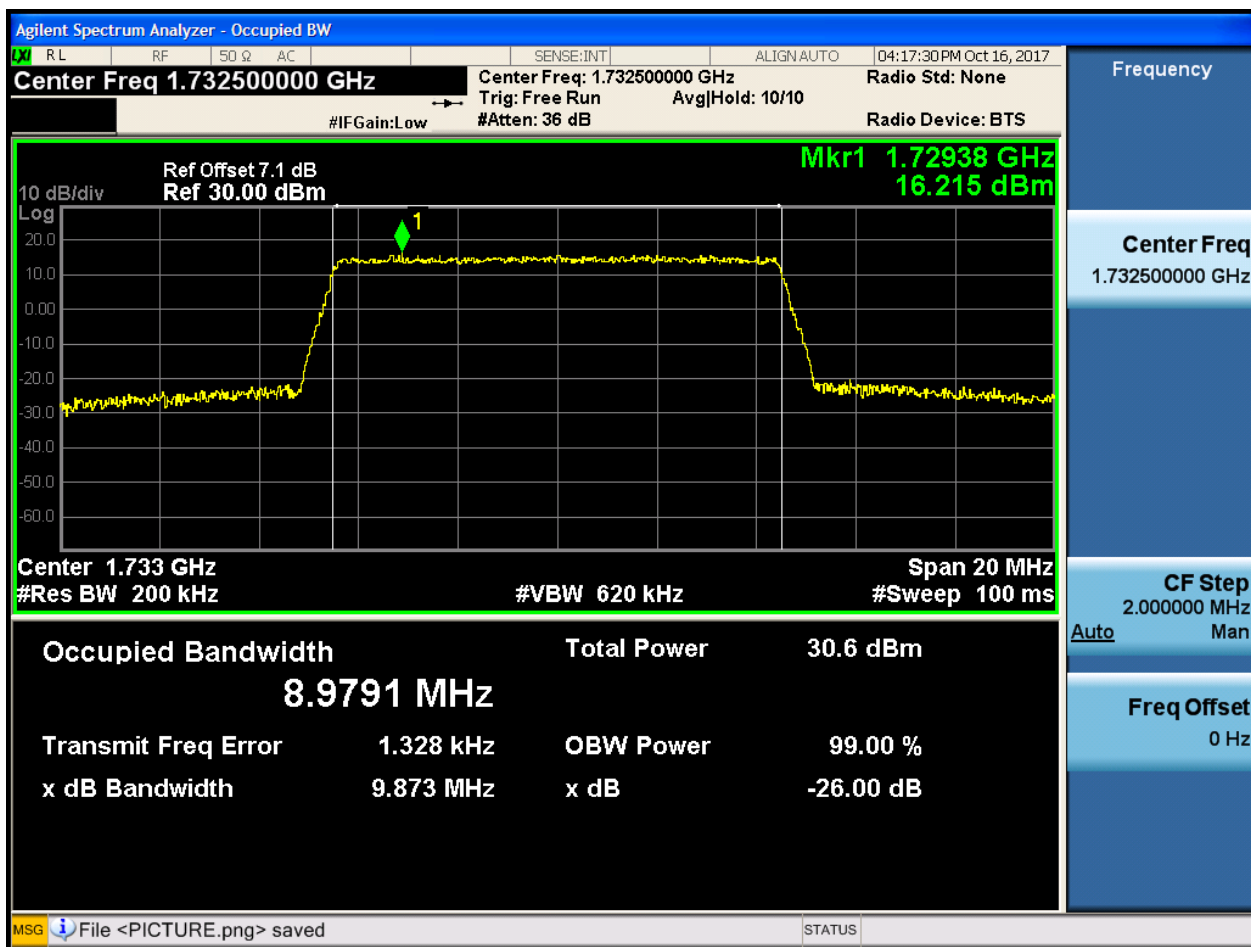
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



4.1.1.1.4.2 Test Channel = MCH

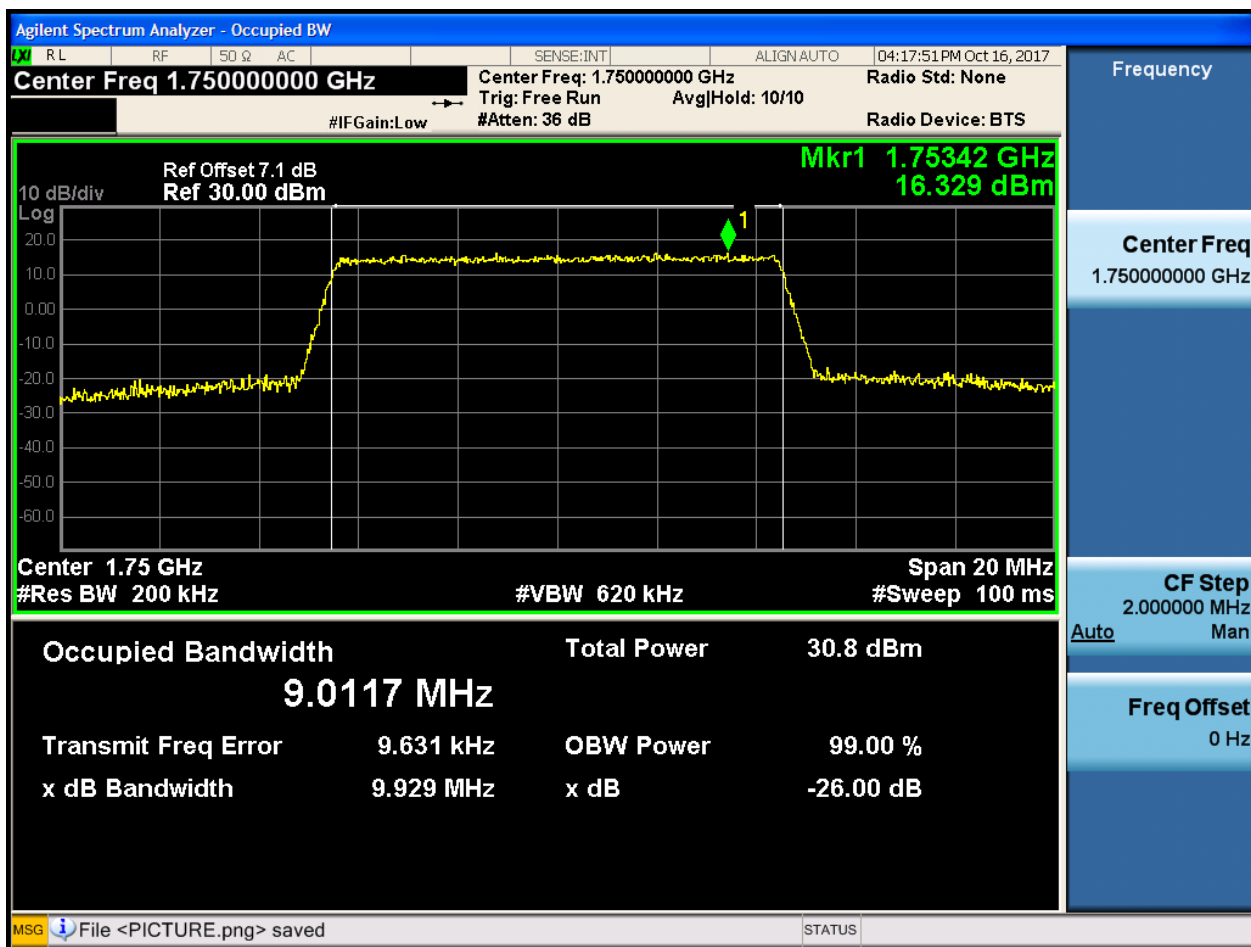
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0

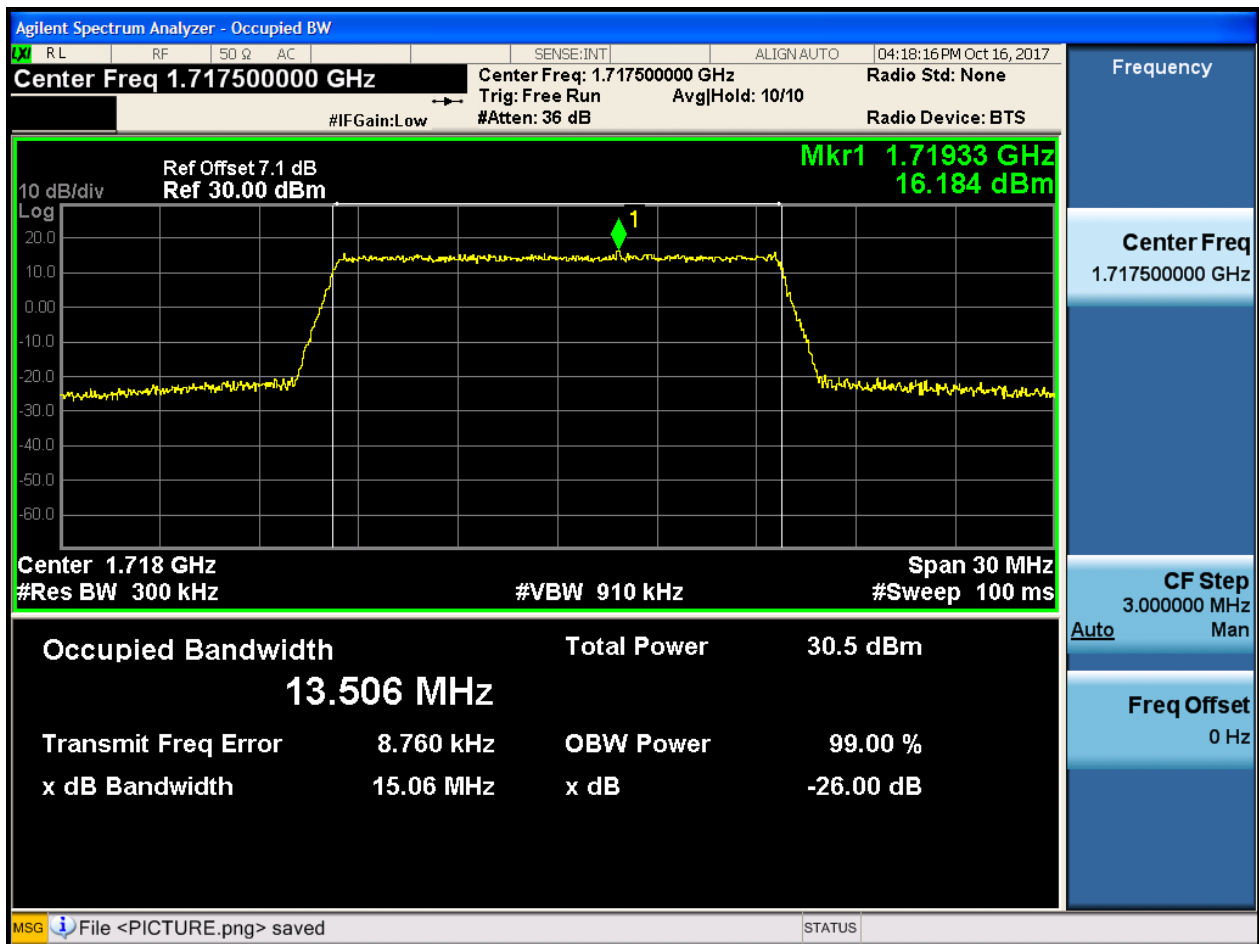




4.1.1.1.5 Test Bandwidth = 15

4.1.1.1.5.1 Test Channel = LCH

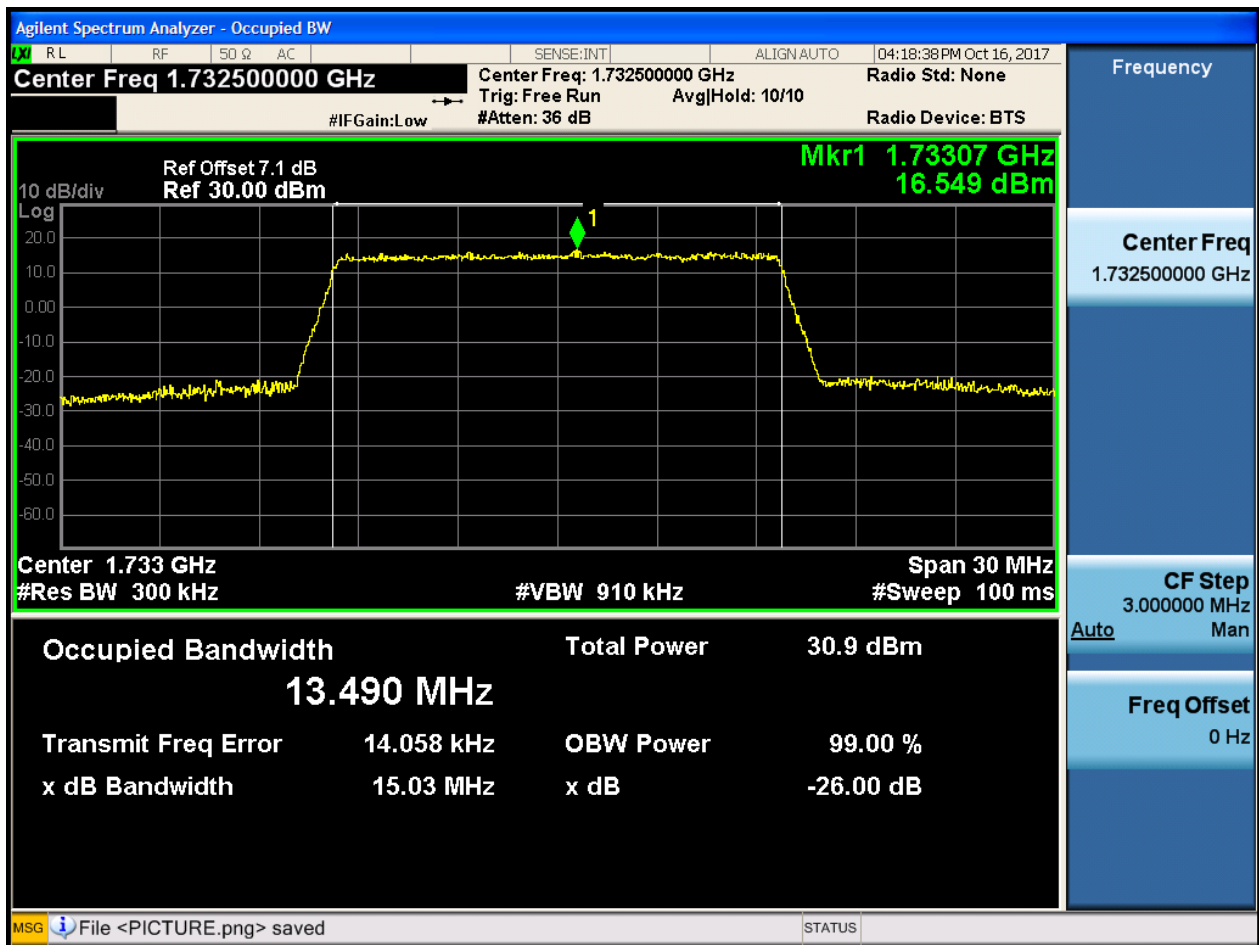
4.1.1.1.5.1.1 Test RB = RB75#0





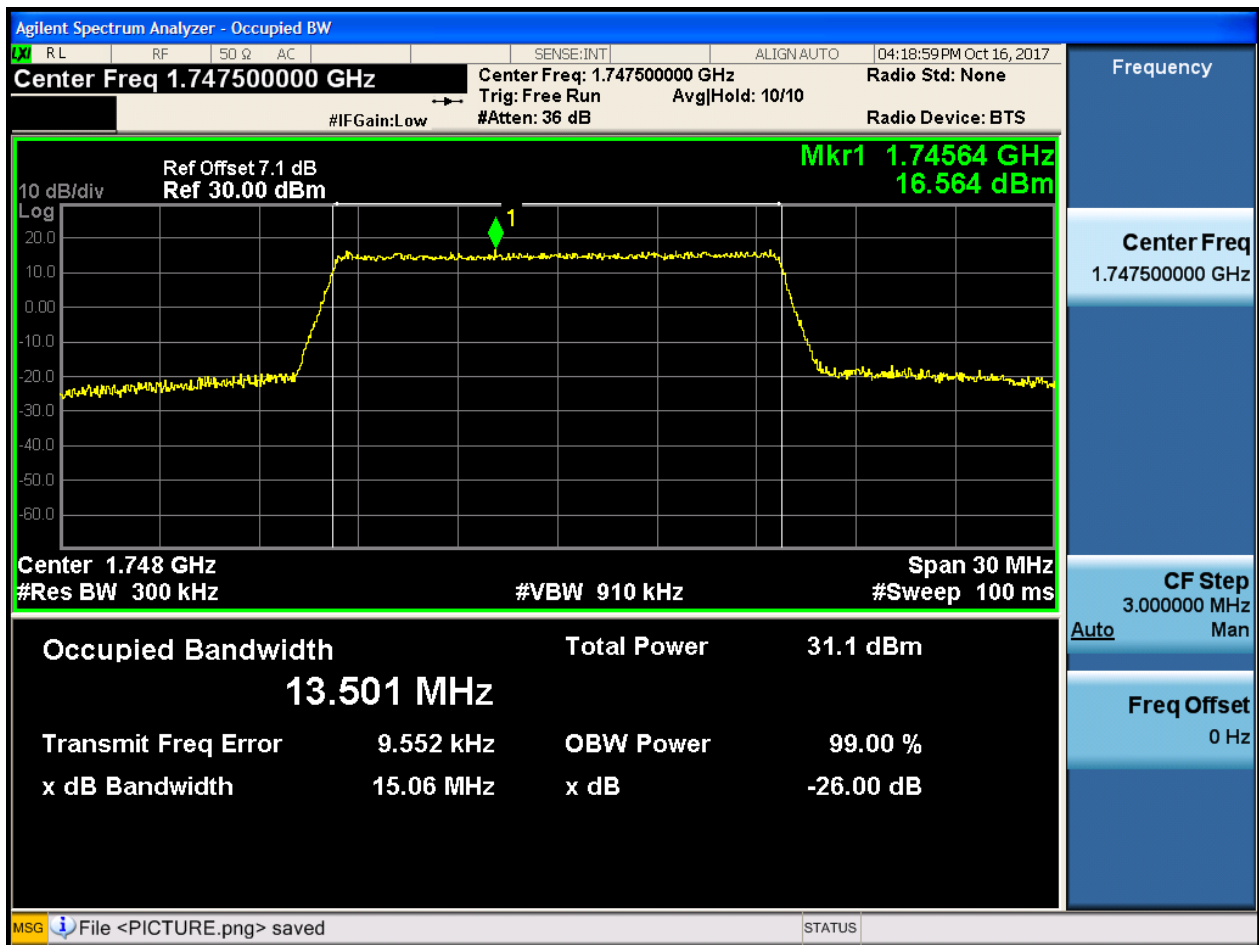
4.1.1.1.5.2 Test Channel = MCH

4.1.1.1.5.2.1 Test RB = RB75#0



4.1.1.1.5.3 Test Channel = HCH

4.1.1.1.5.3.1 Test RB = RB75#0

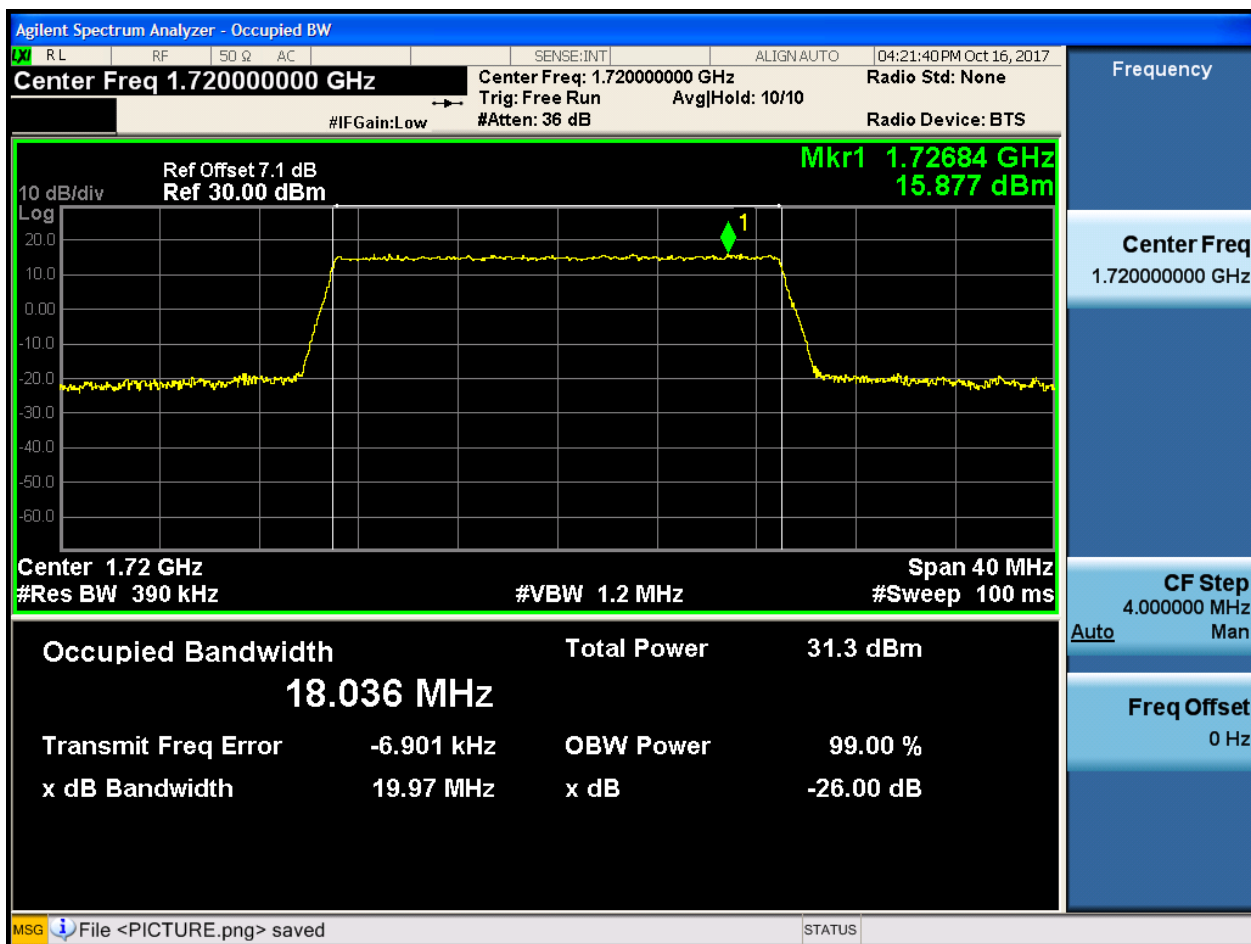




4.1.1.1.6 Test Bandwidth = 20

4.1.1.1.6.1 Test Channel = LCH

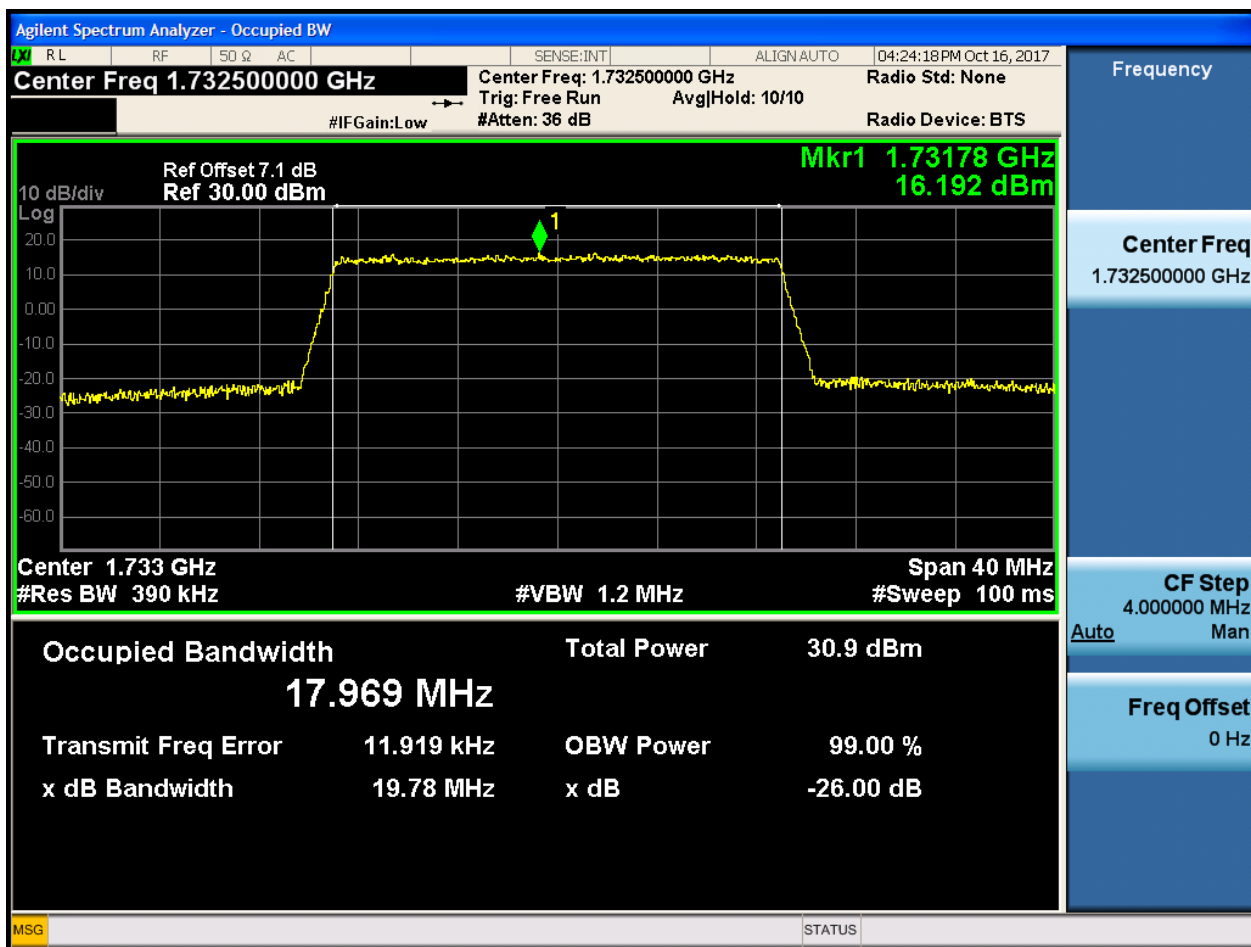
4.1.1.1.6.1.1 Test RB = RB100#0





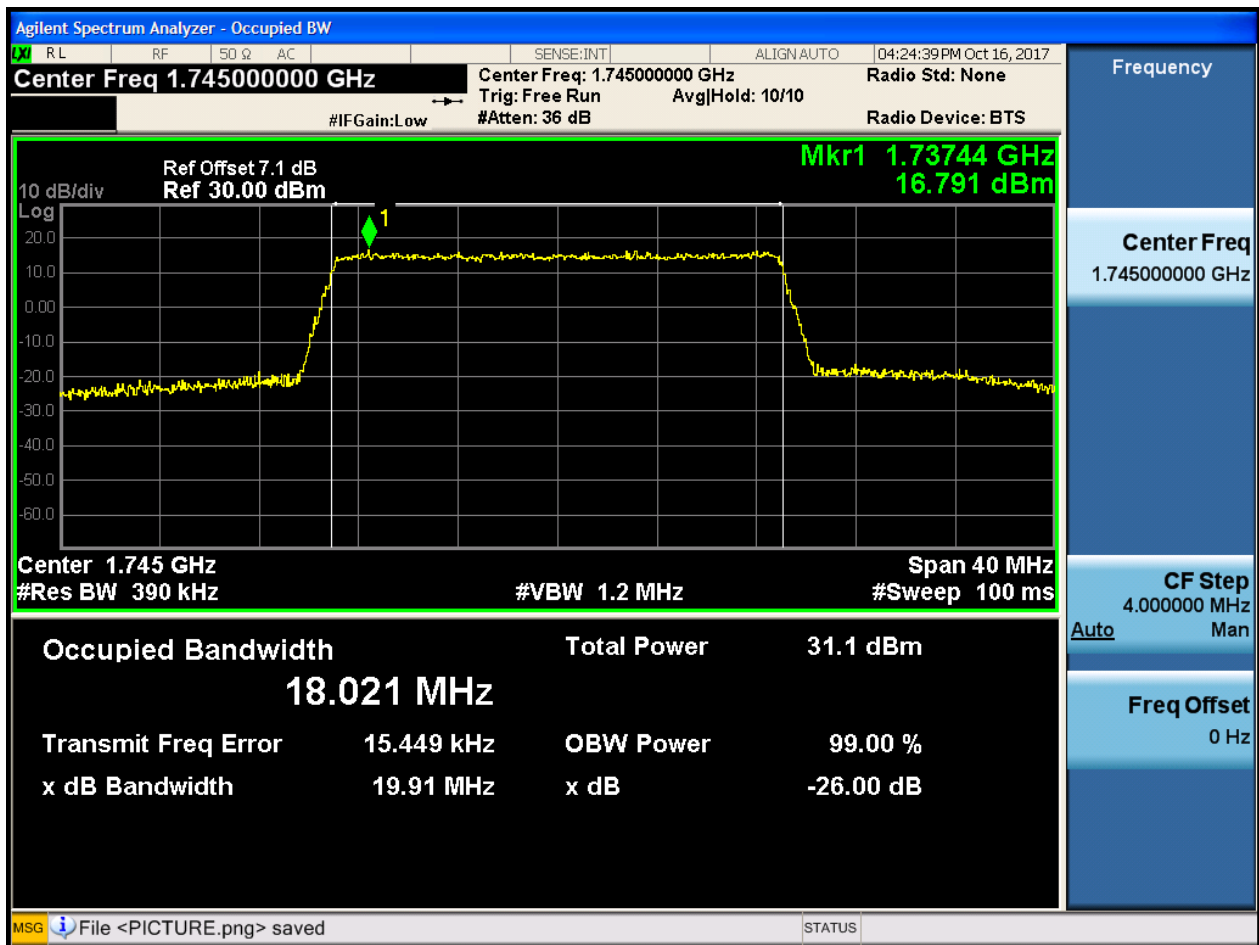
4.1.1.1.6.2 Test Channel = MCH

4.1.1.1.6.2.1 Test RB = RB100#0



4.1.1.1.6.3 Test Channel = HCH

4.1.1.1.6.3.1 Test RB = RB100#0



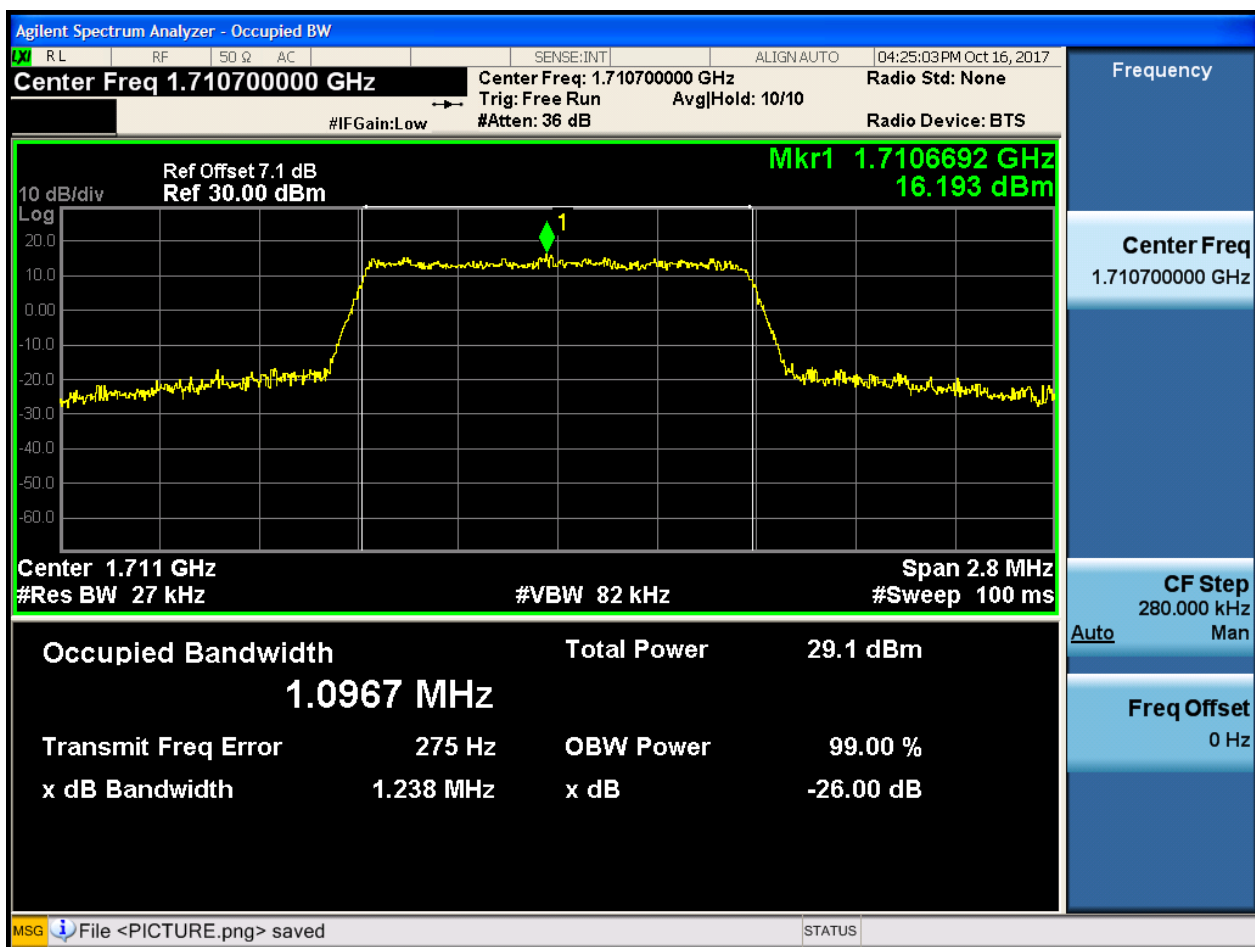


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

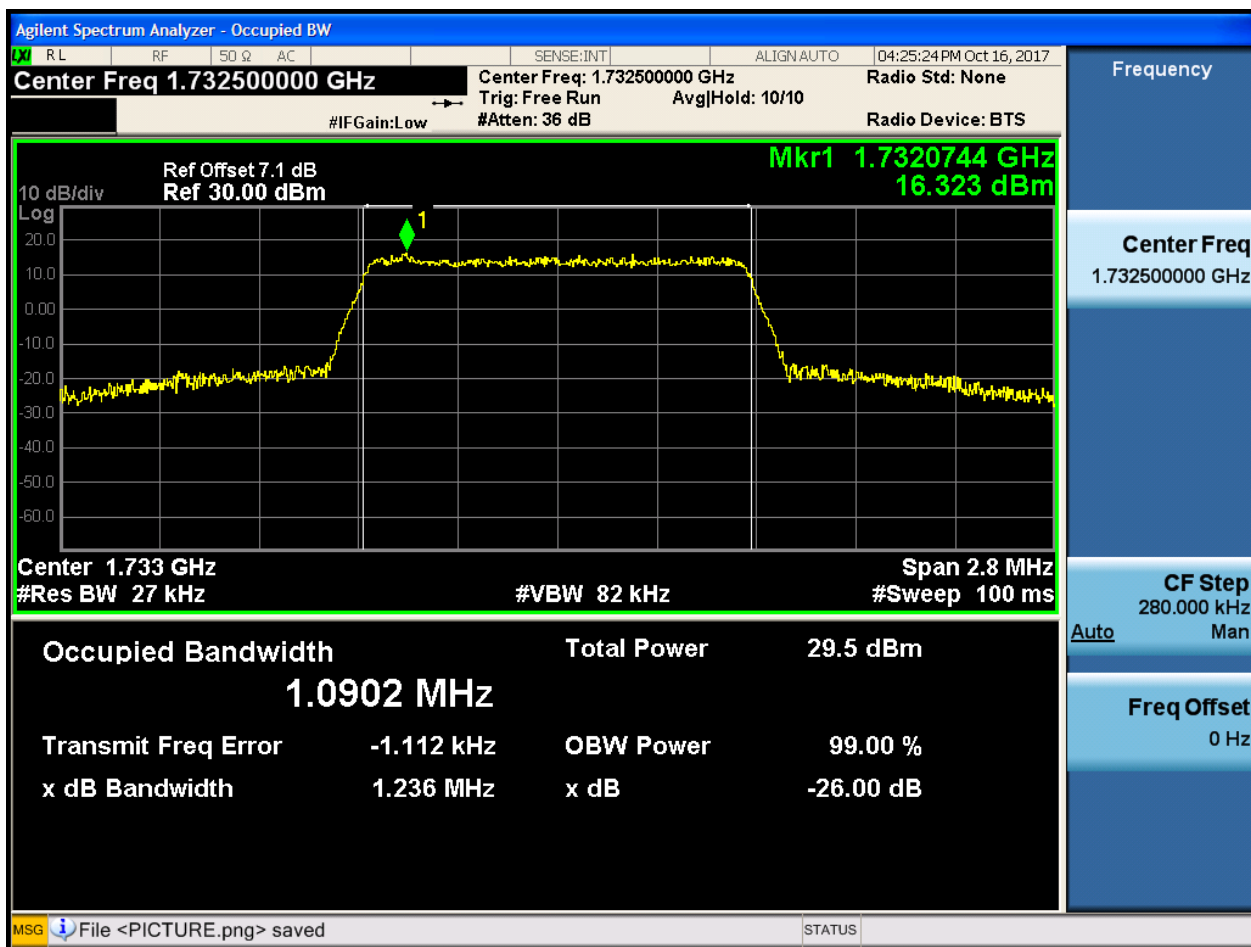
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB6#0



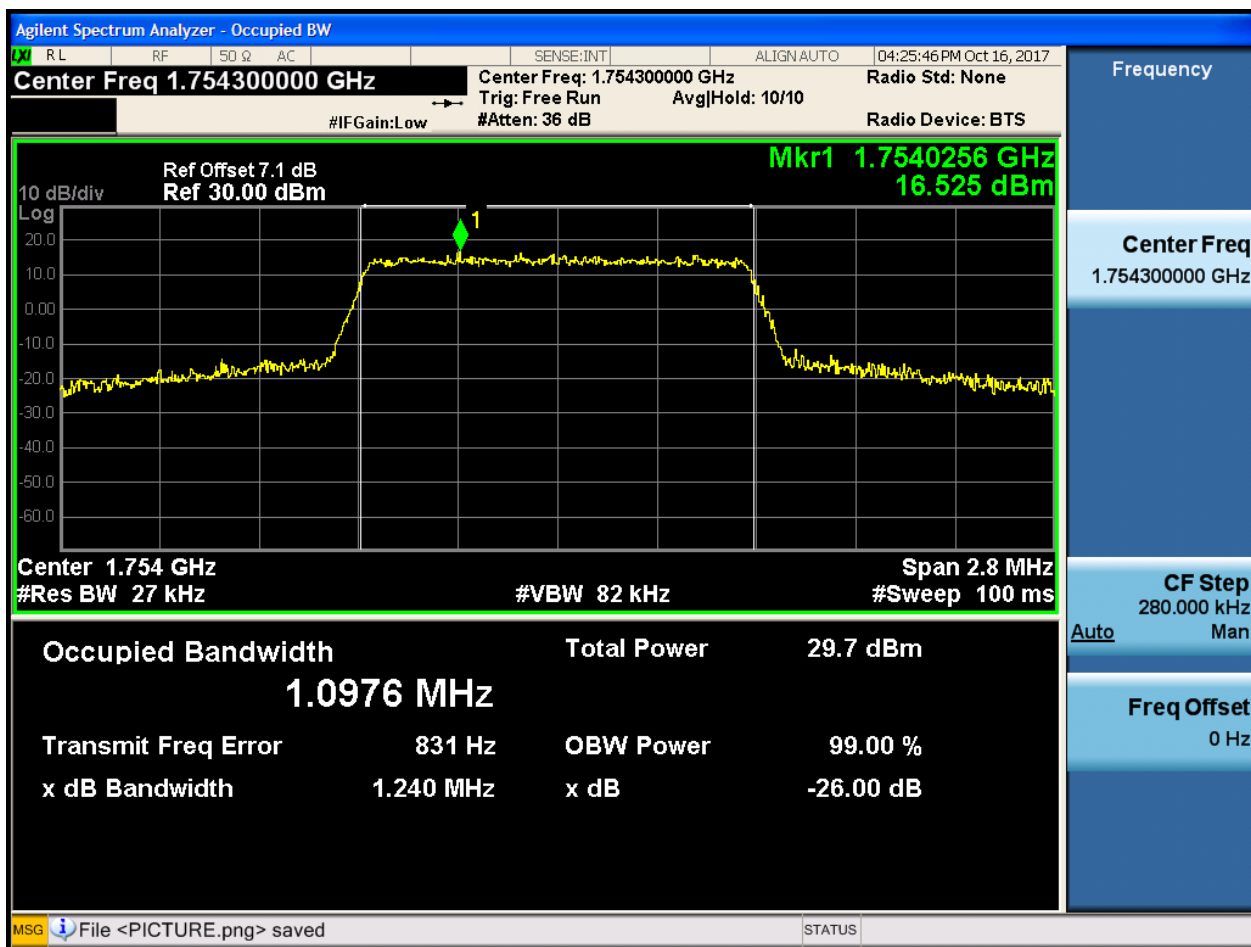
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0



4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

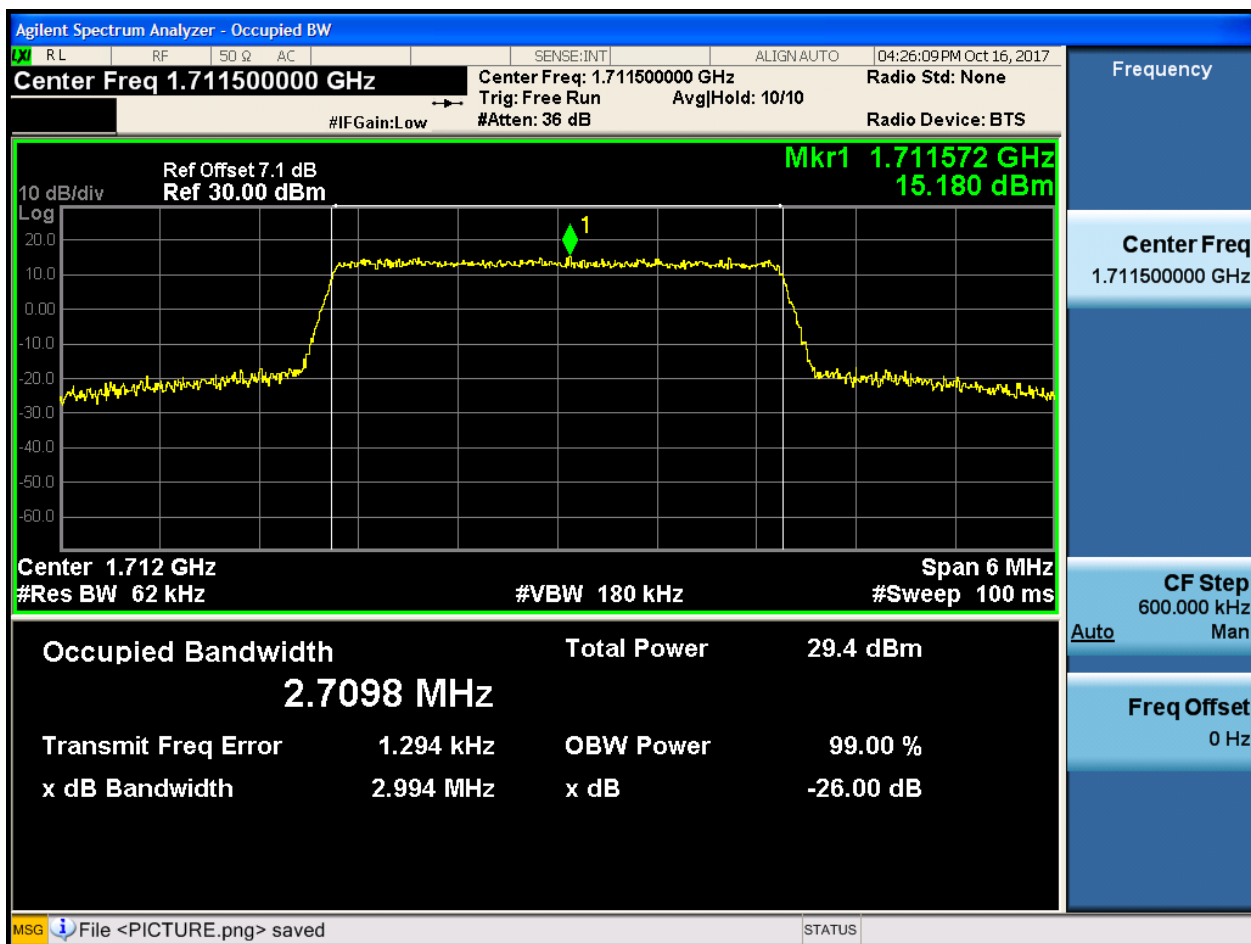




4.1.1.2.2 Test Bandwidth = 3

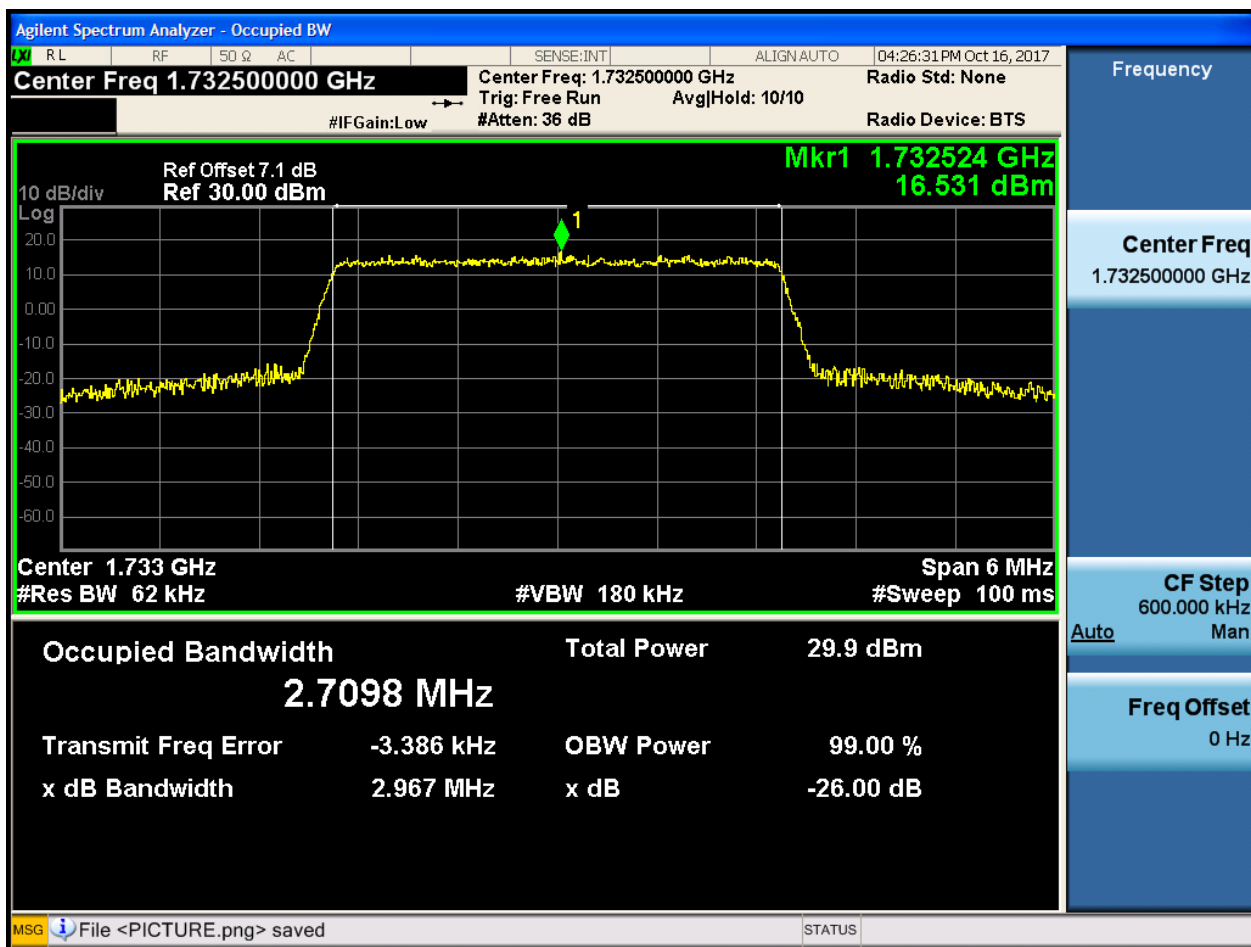
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



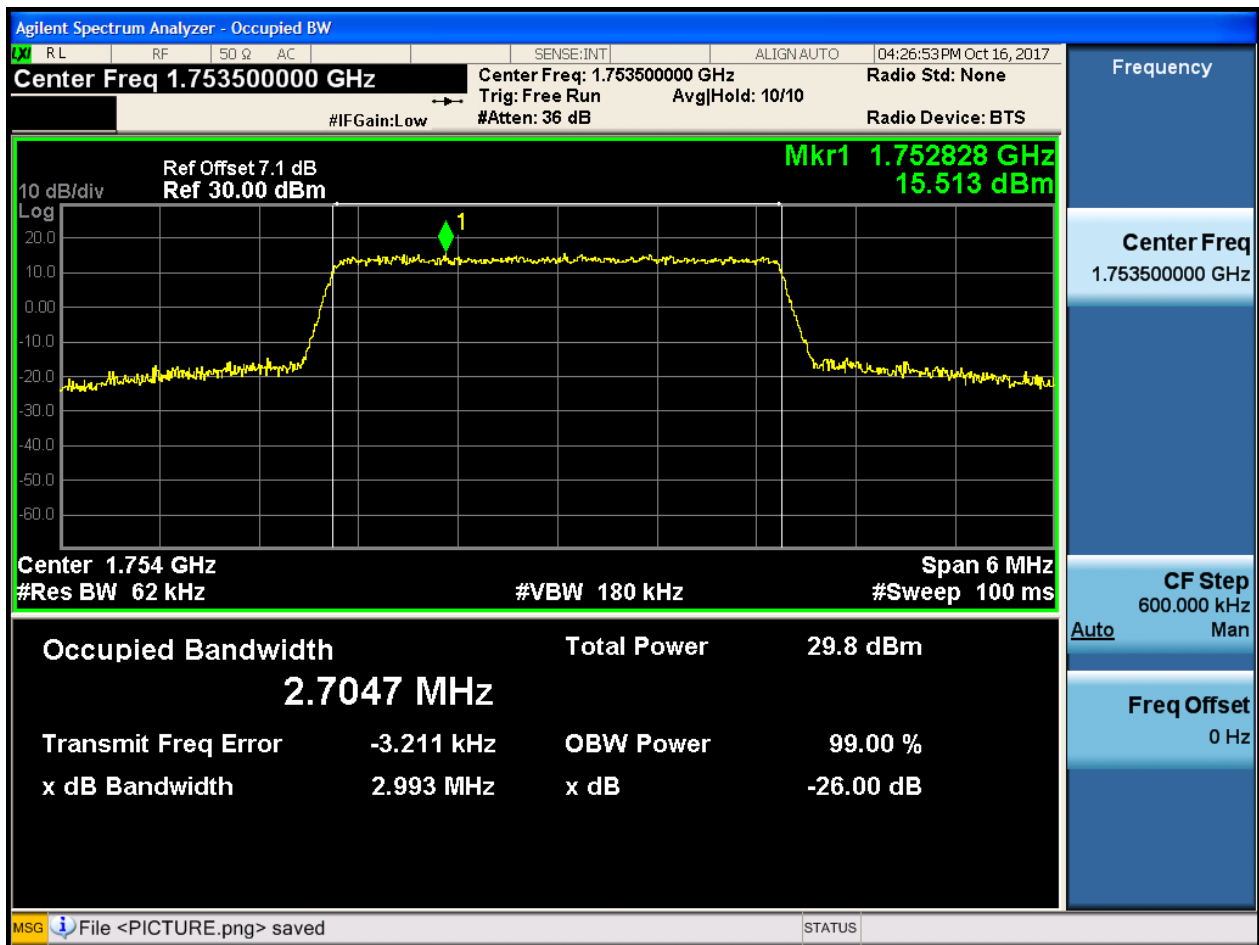
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB15#0



4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

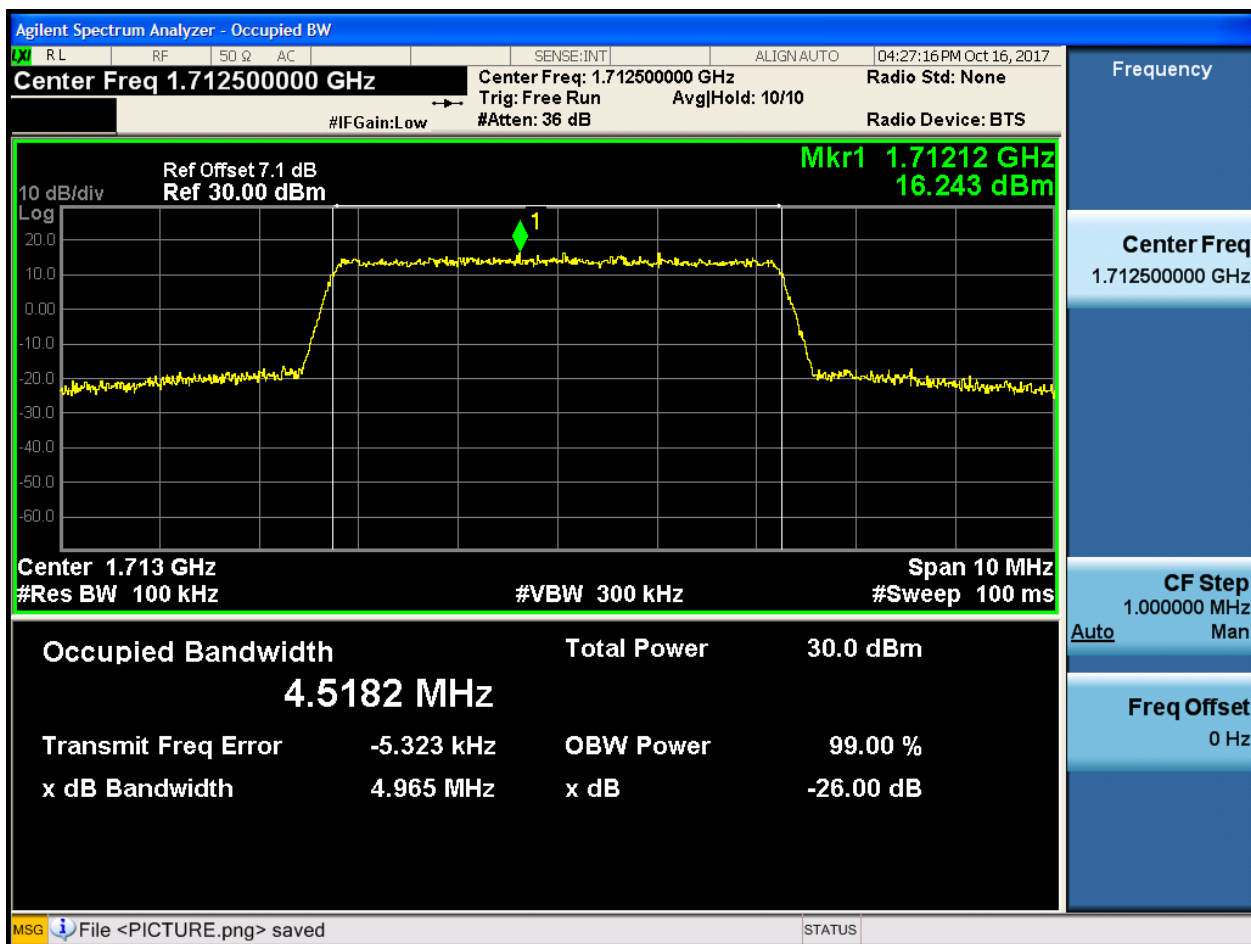




4.1.1.2.3 Test Bandwidth = 5

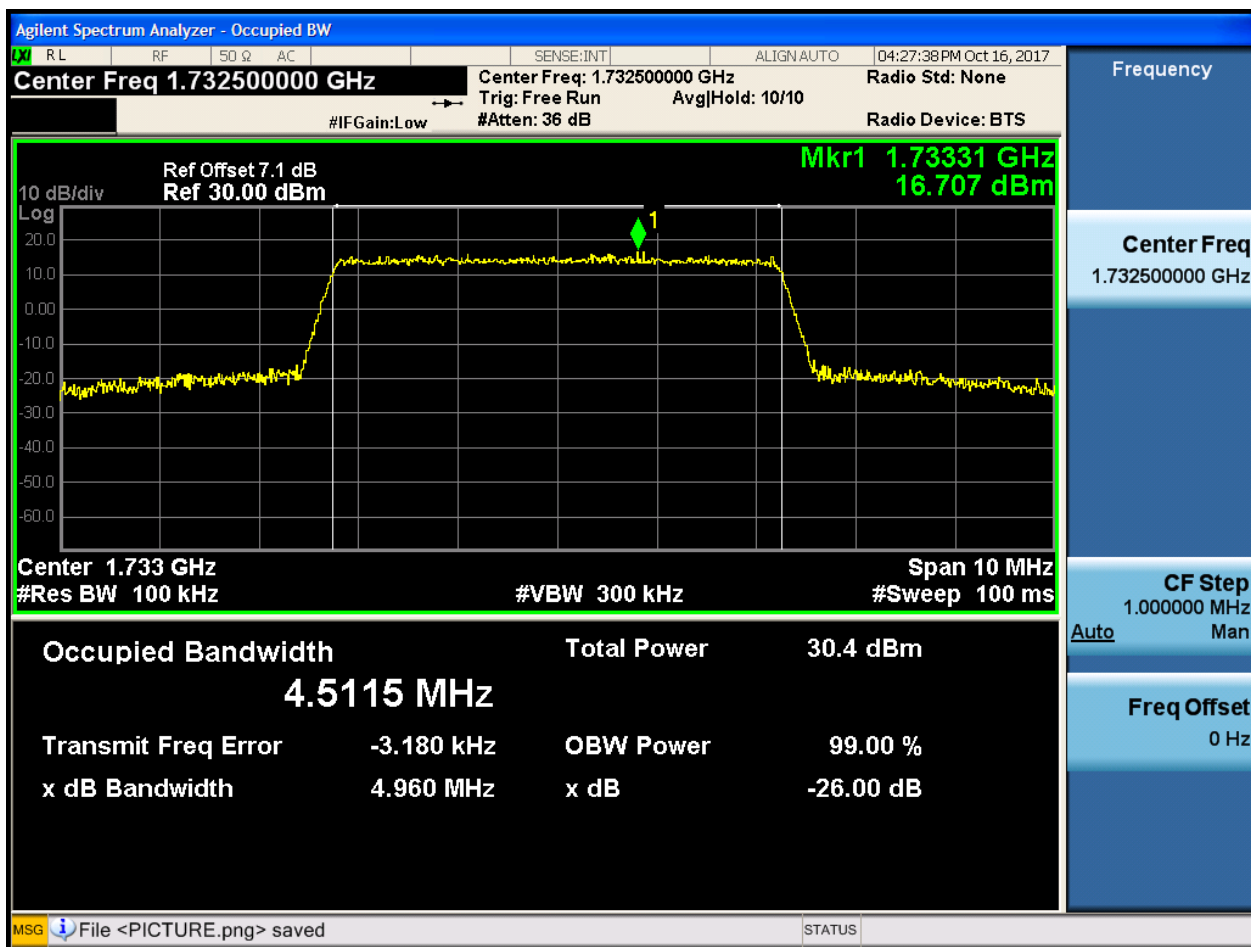
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



4.1.1.2.3.2 Test Channel = MCH

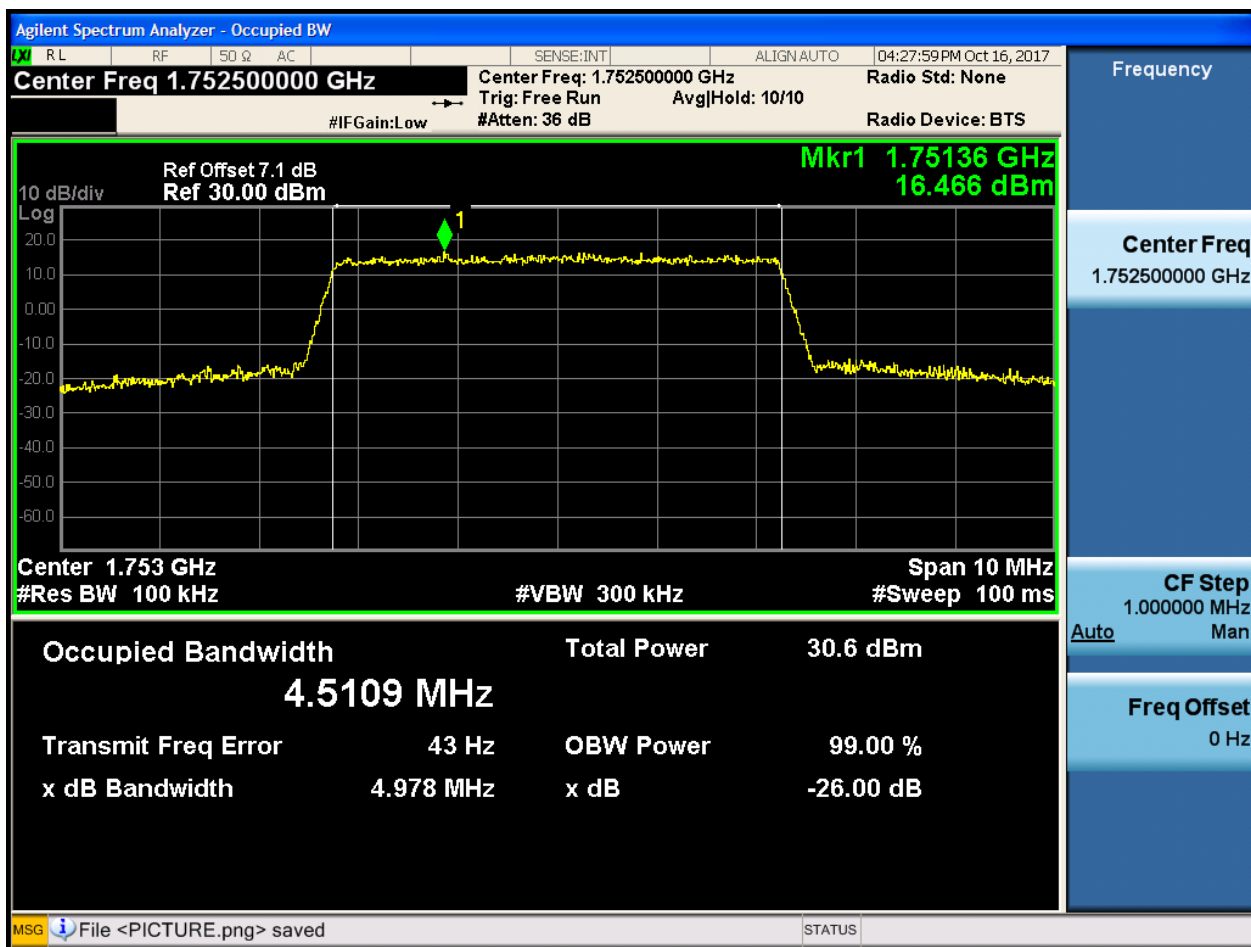
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

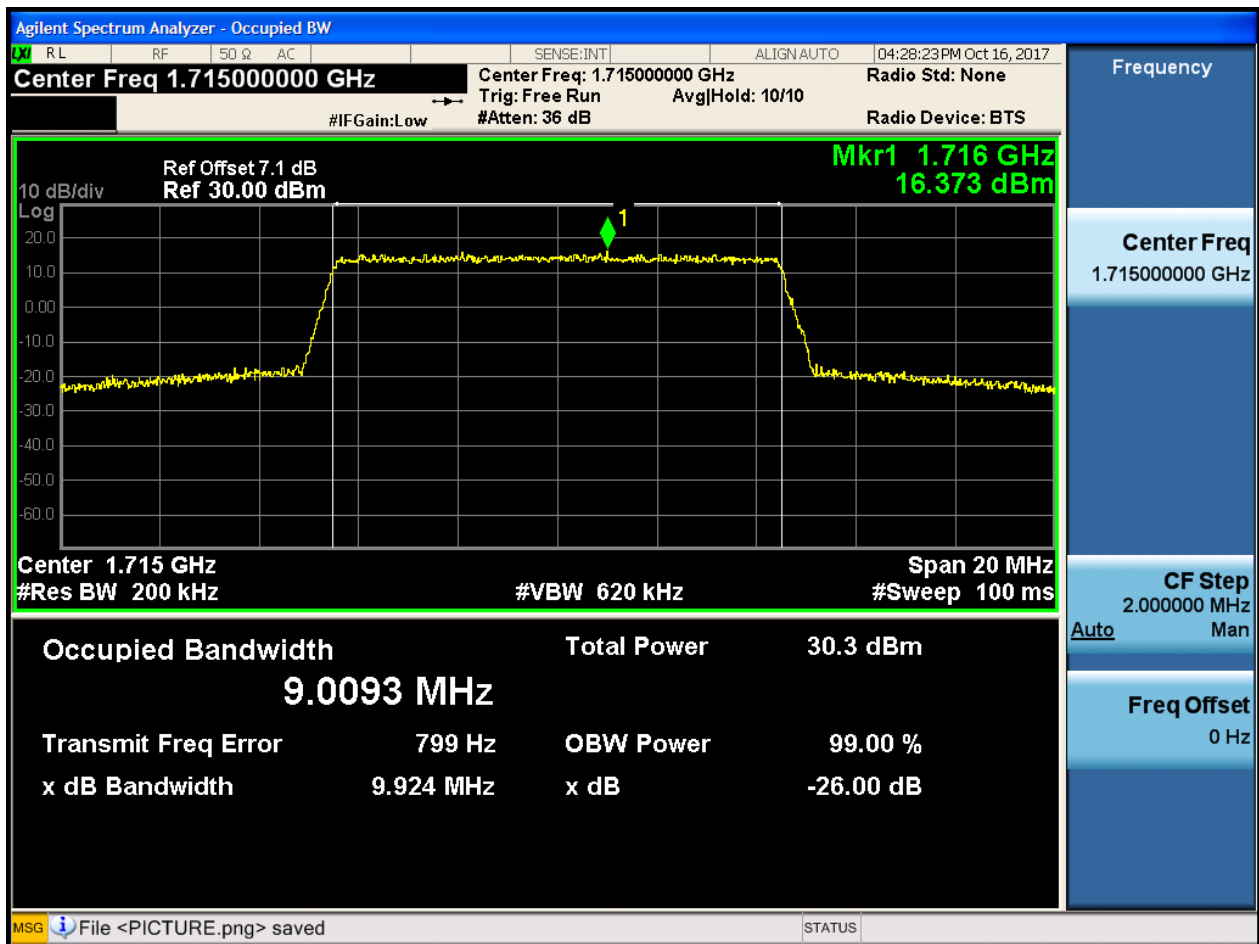




4.1.1.2.4 Test Bandwidth = 10

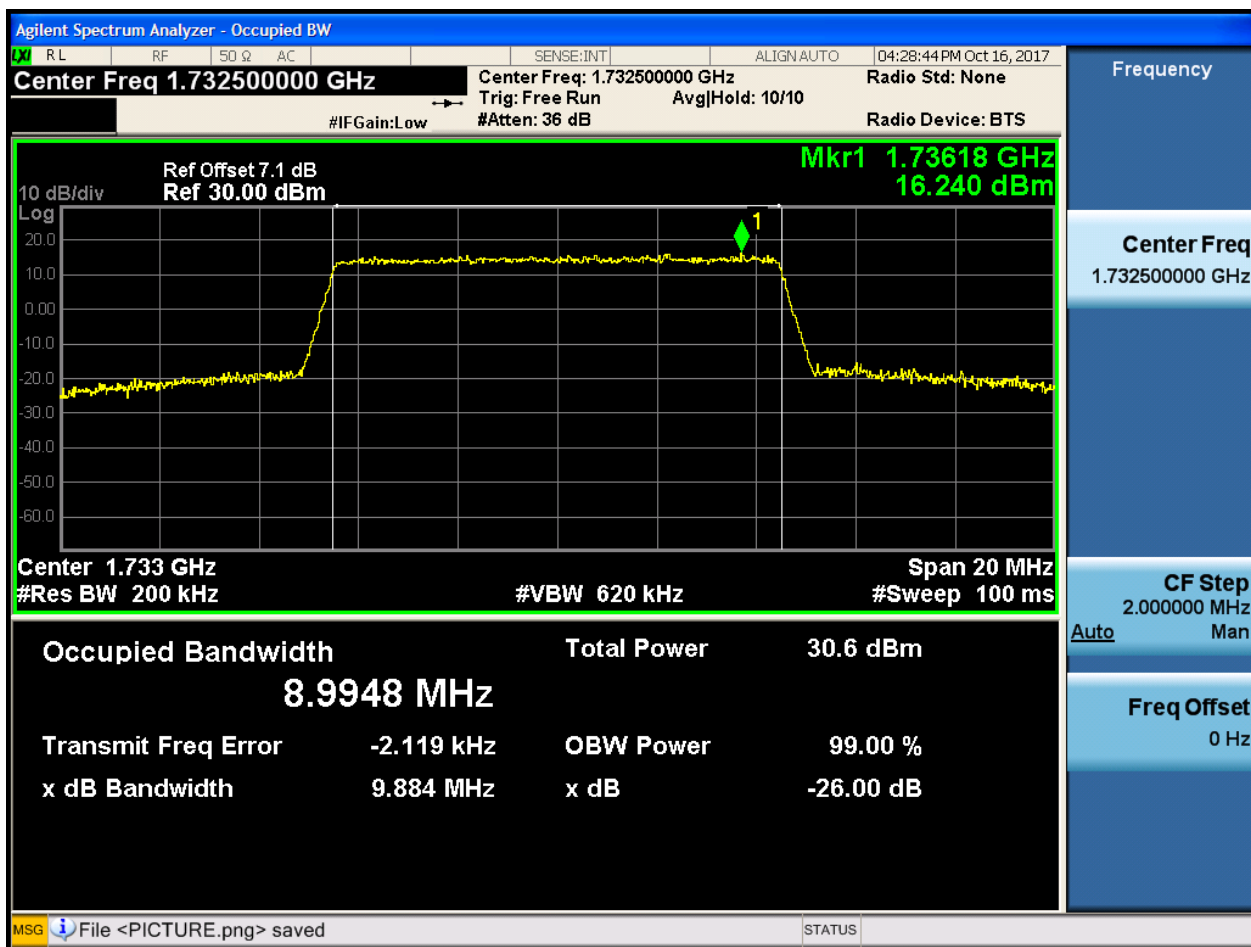
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0



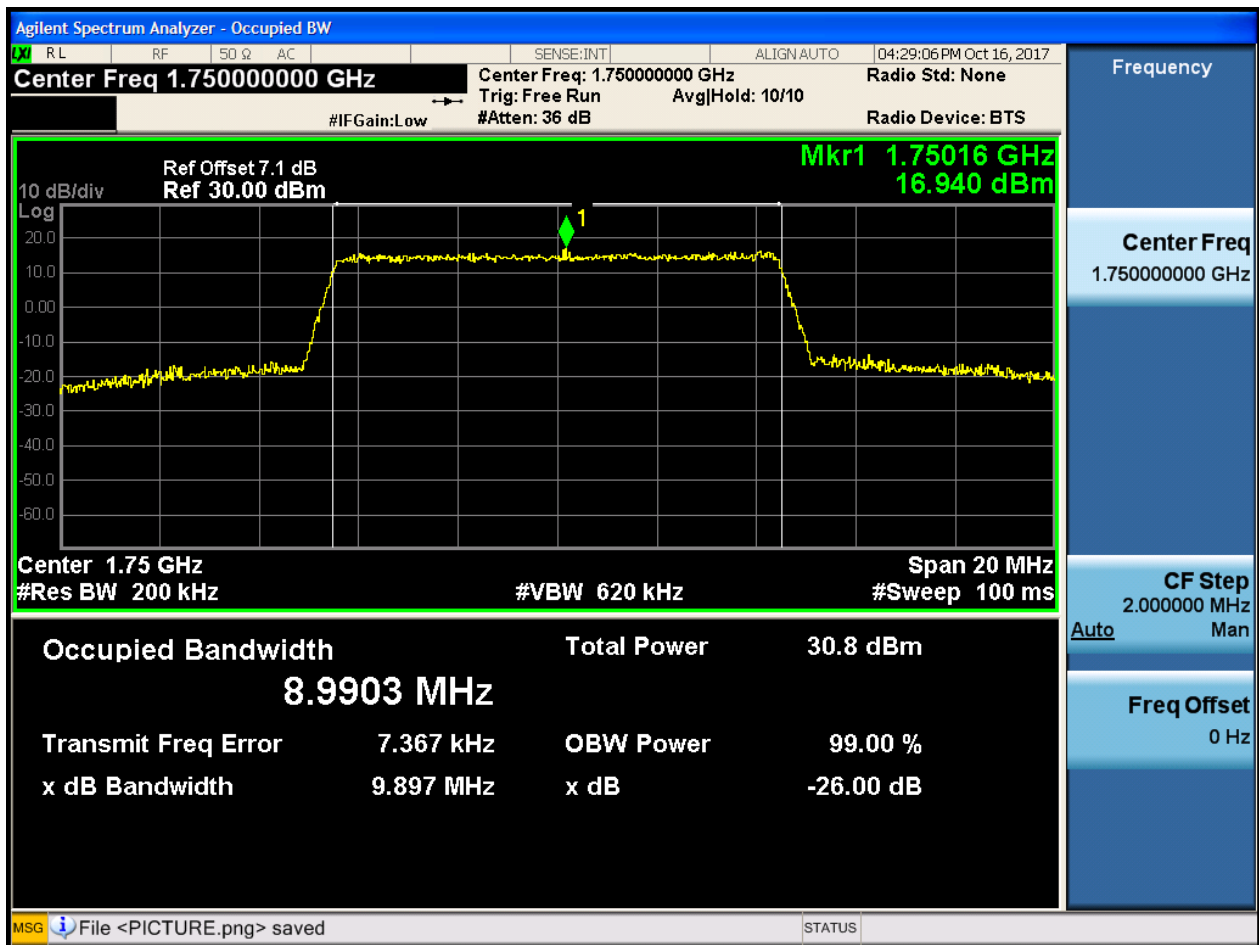
4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB50#0



4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0

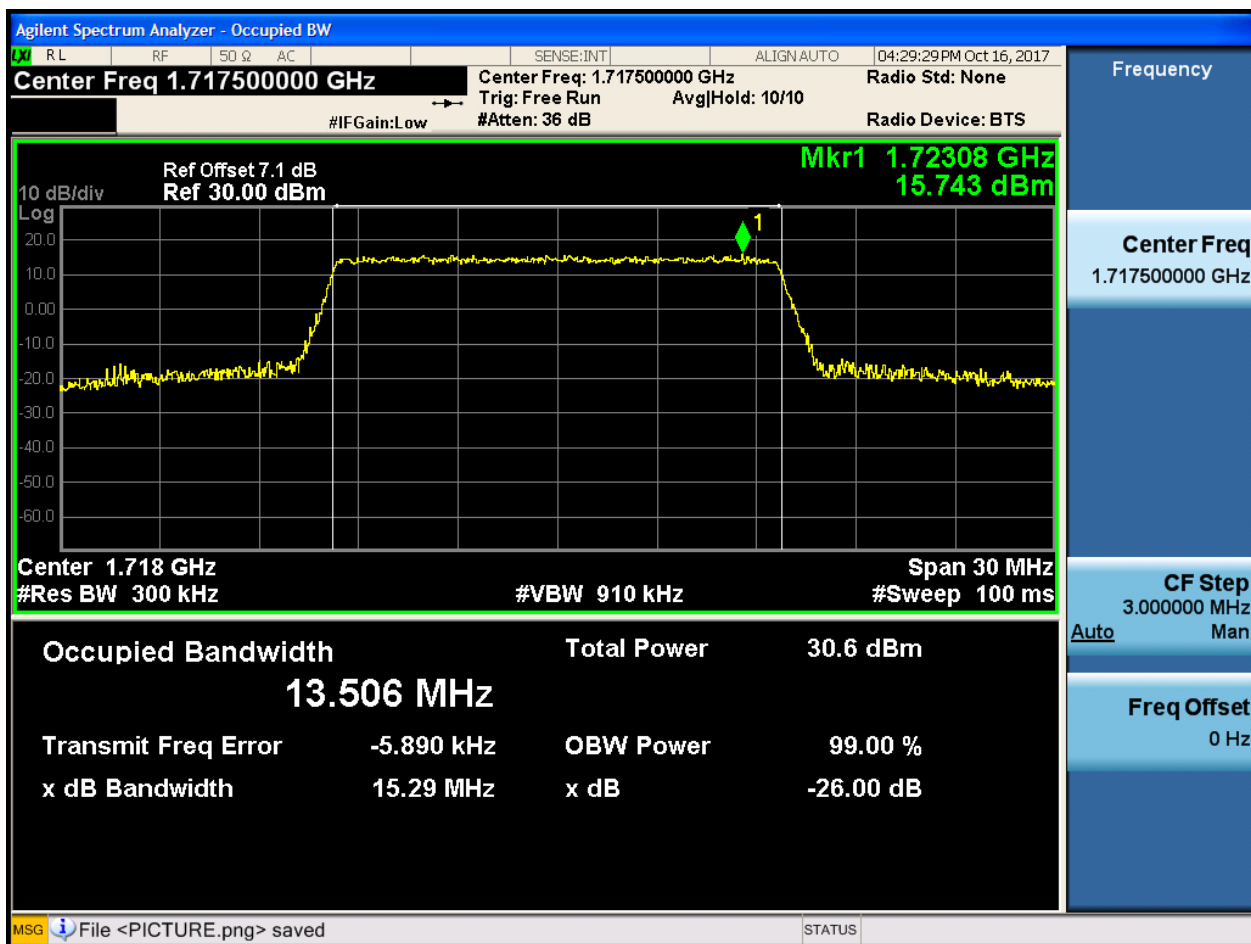




4.1.1.2.5 Test Bandwidth = 15

4.1.1.2.5.1 Test Channel = LCH

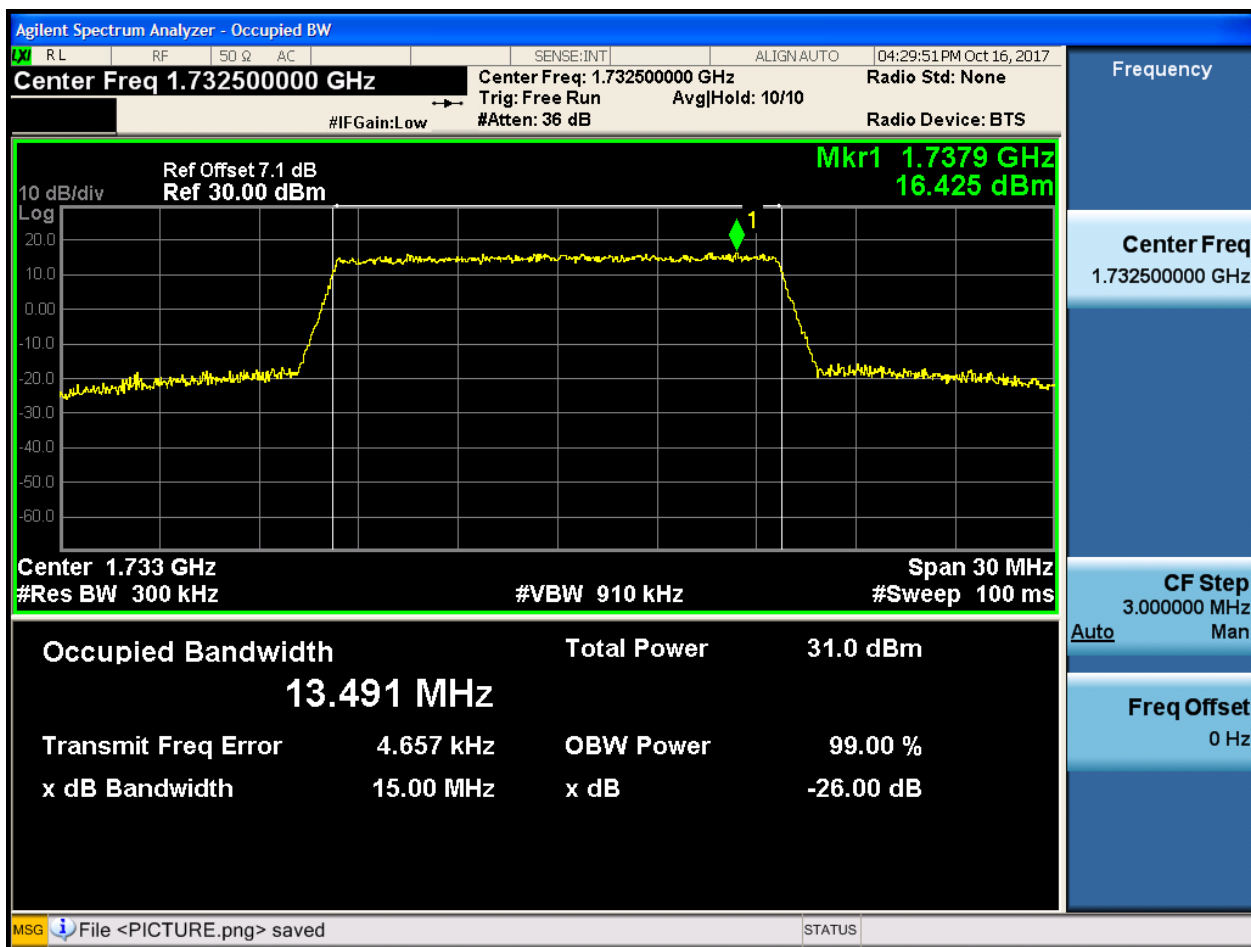
4.1.1.2.5.1.1 Test RB = RB75#0





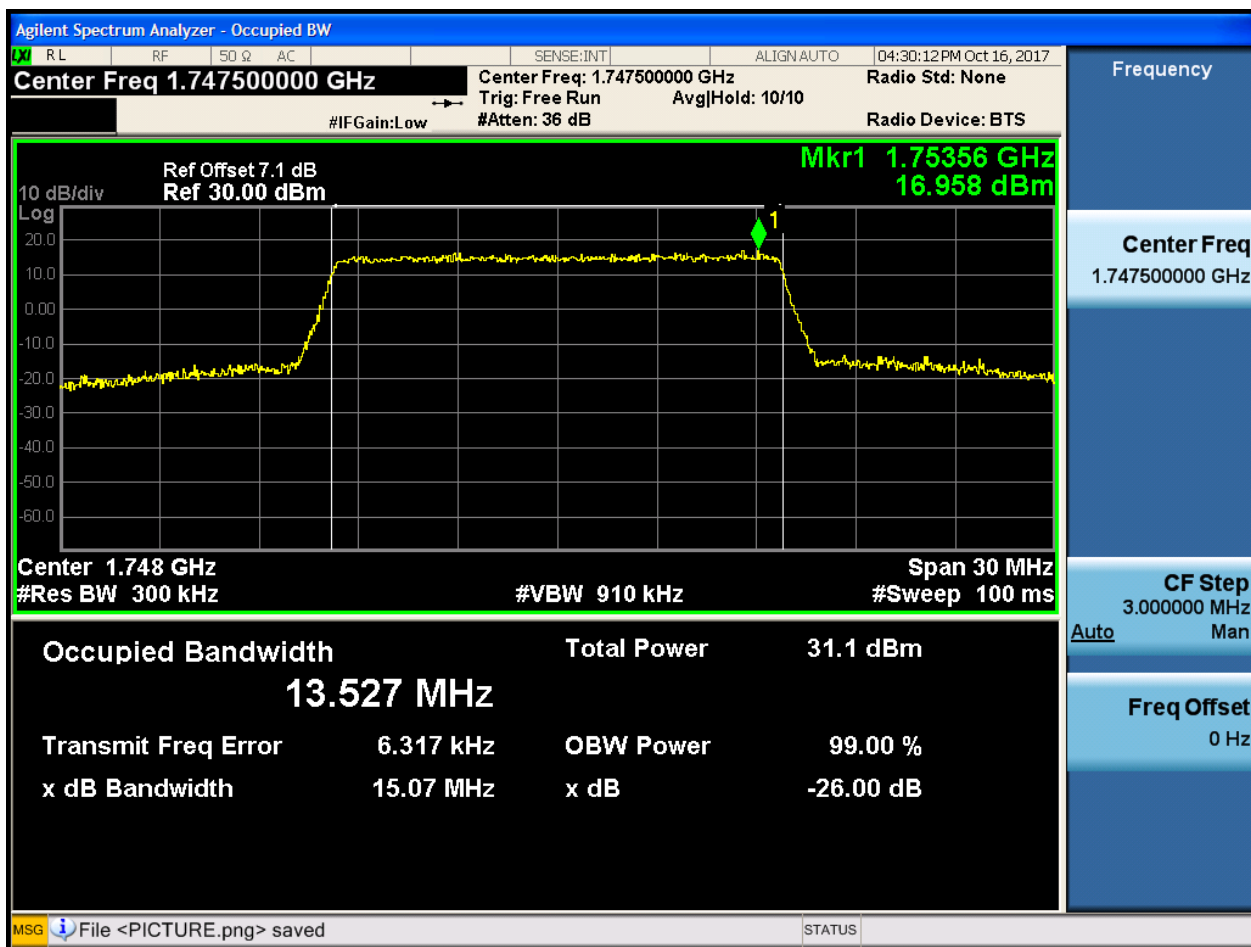
4.1.1.2.5.2 Test Channel = MCH

4.1.1.2.5.2.1 Test RB = RB75#0



4.1.1.2.5.3 Test Channel = HCH

4.1.1.2.5.3.1 Test RB = RB75#0

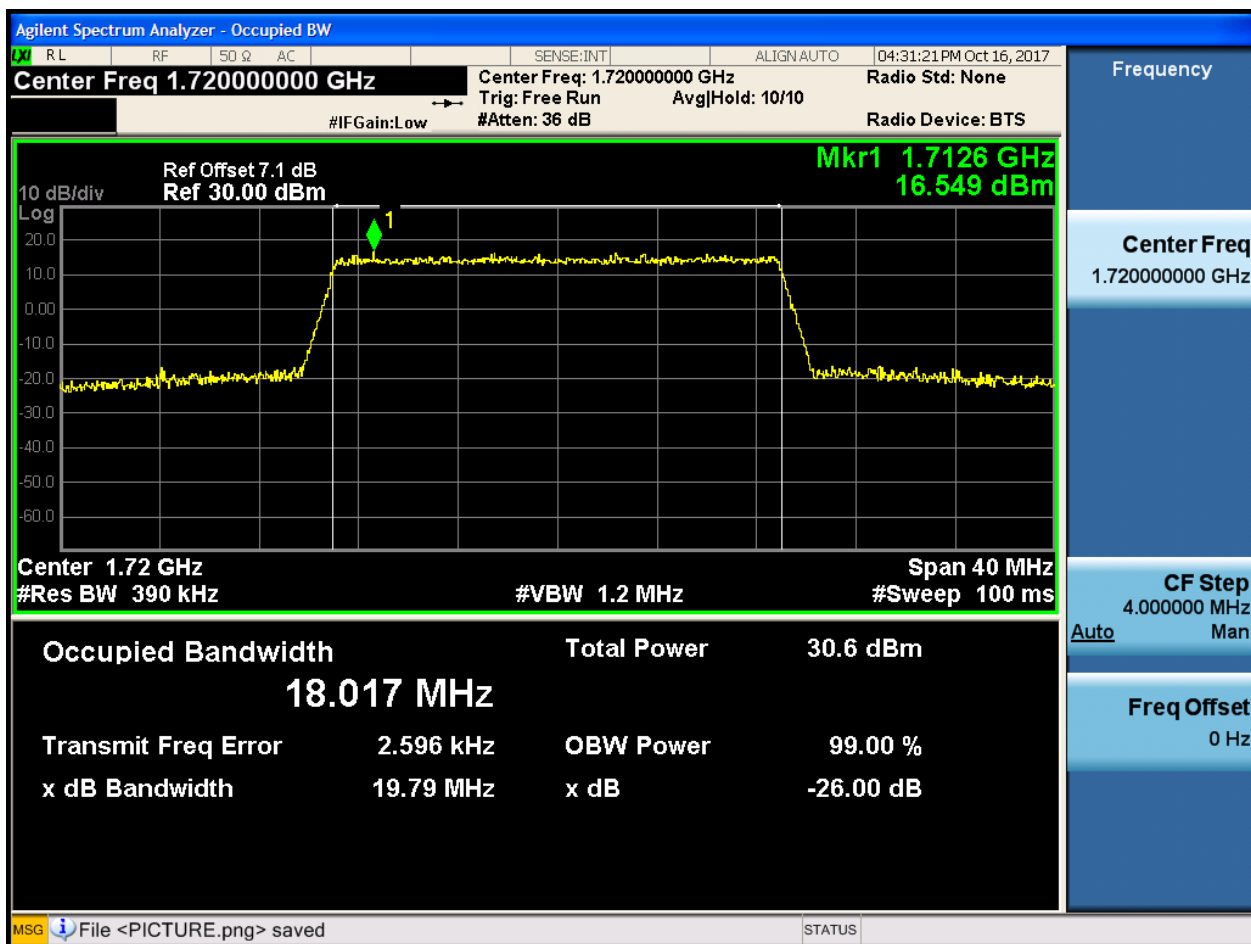




4.1.1.2.6 Test Bandwidth = 20

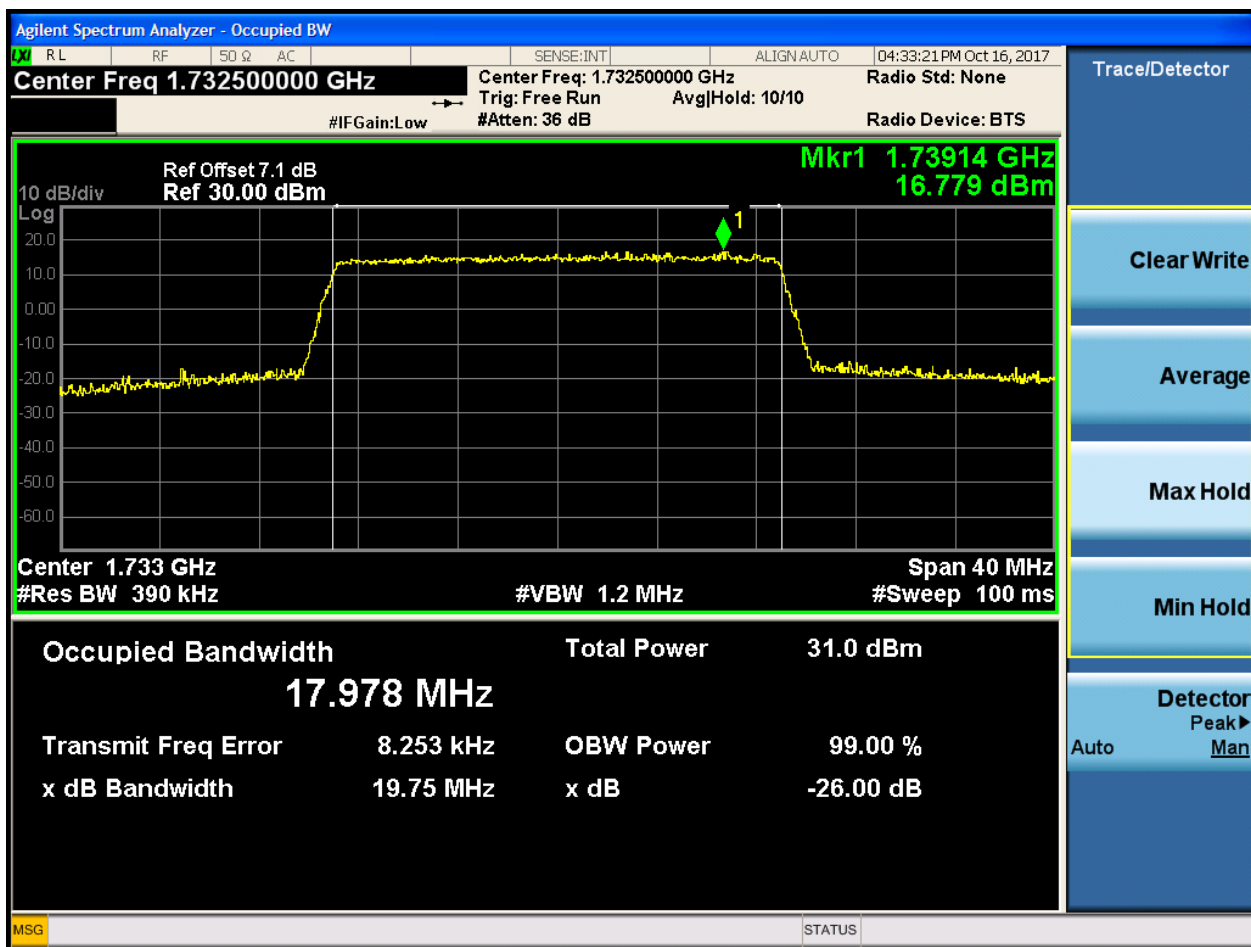
4.1.1.2.6.1 Test Channel = LCH

4.1.1.2.6.1.1 Test RB = RB100#0



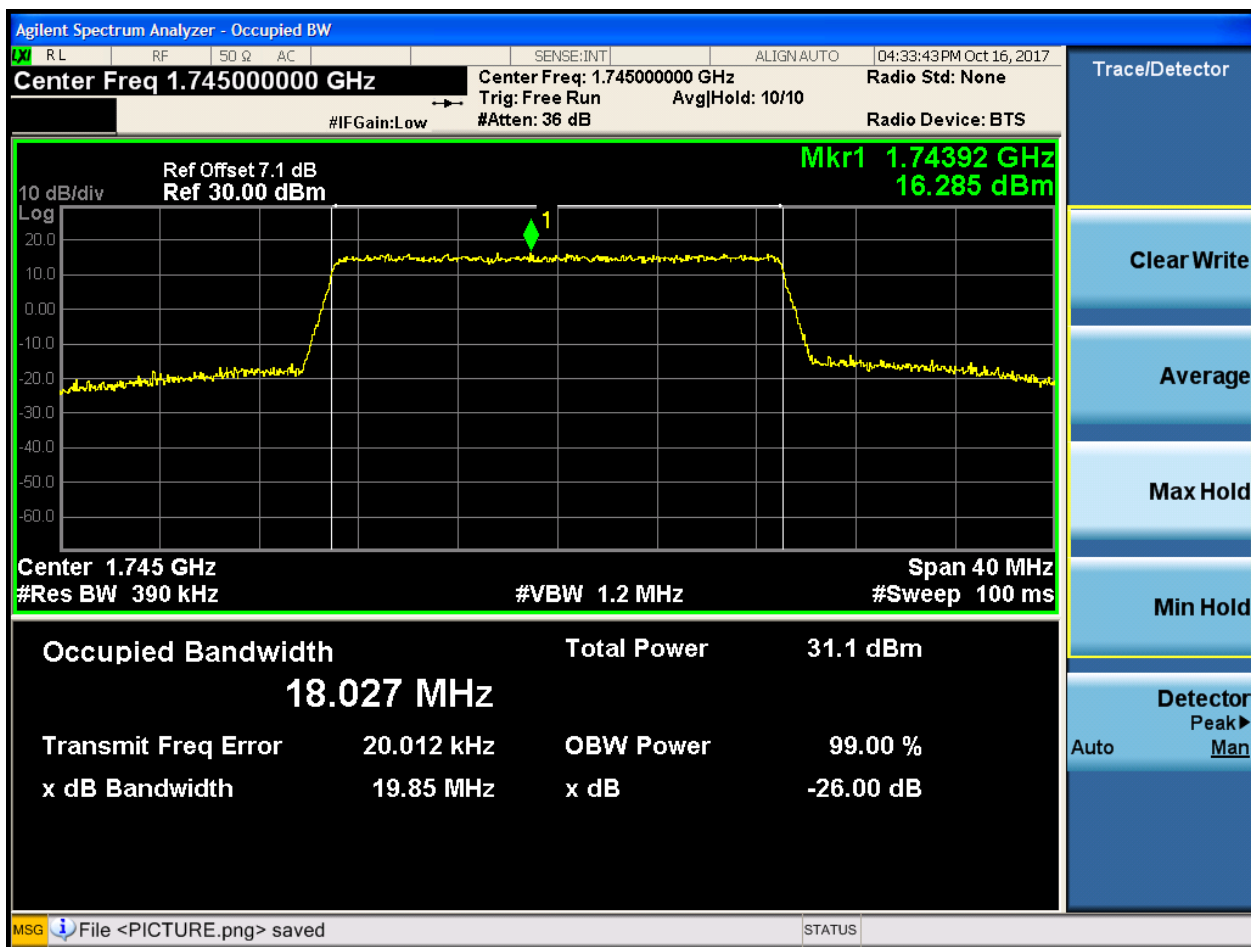
4.1.1.2.6.2 Test Channel = MCH

4.1.1.2.6.2.1 Test RB = RB100#0



4.1.1.2.6.3 Test Channel = HCH

4.1.1.2.6.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

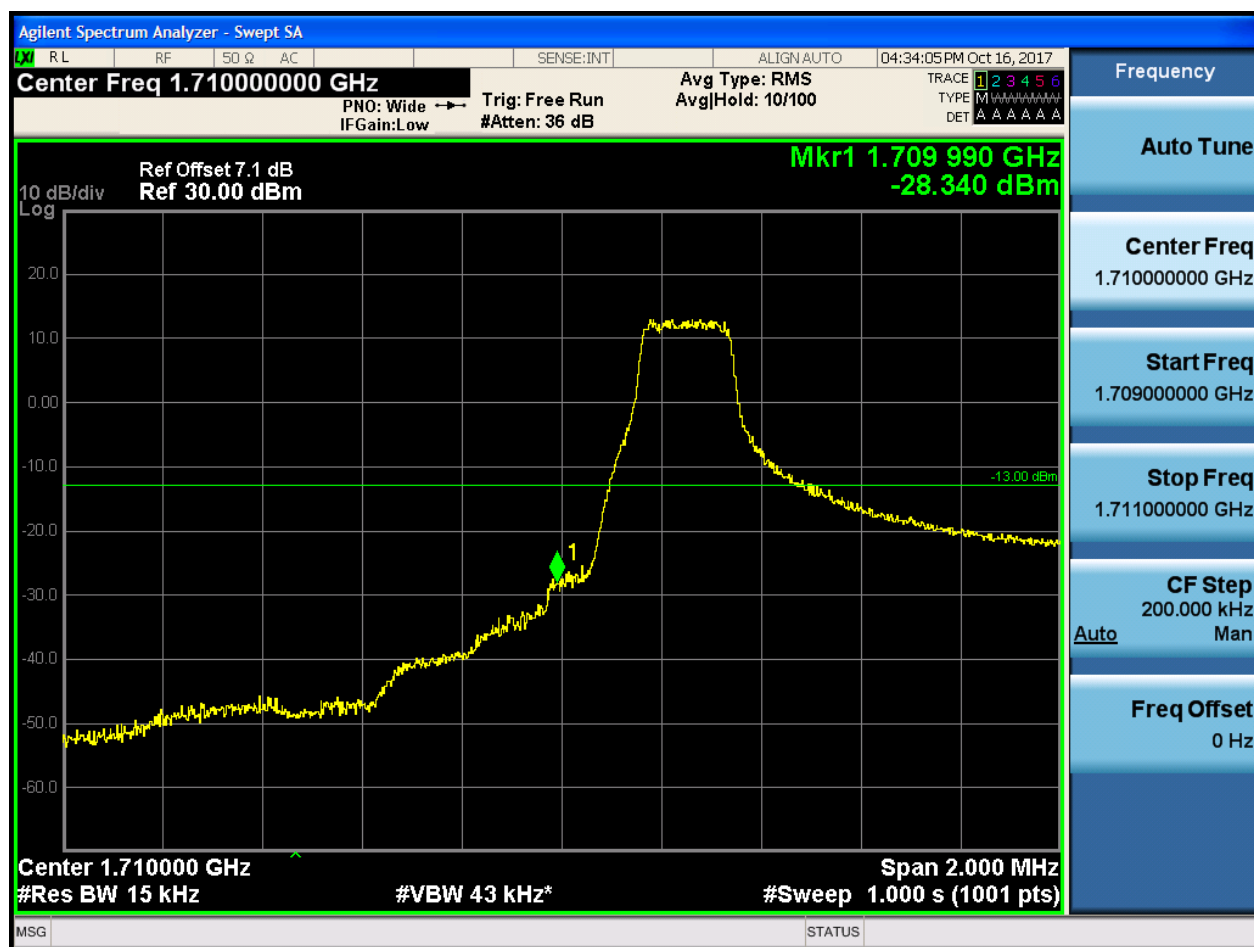
5.1.1 Test Band = BAND4

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0





5.1.1.1.1.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:34:37 PM Oct 16, 2017

Center Freq 1.710000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.709 980 GHz
-33.219 dBm

10 dB/div
Log

Center 1.710000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:34:53 PM Oct 16, 2017

Center Freq 1.710000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.710 000 GHz
-35.545 dBm

10 dB/div
Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

-13.00 dBm

Center 1.710000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

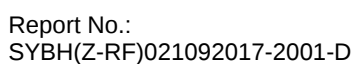
Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:35:47 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 060 GHz
-27.447 dBm

10 dB/div
Log

Center 1.755000 GHz
#Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:36:03 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.755 050 GHz
-32.340 dBm

-13.00 dBm

Center 1.755000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

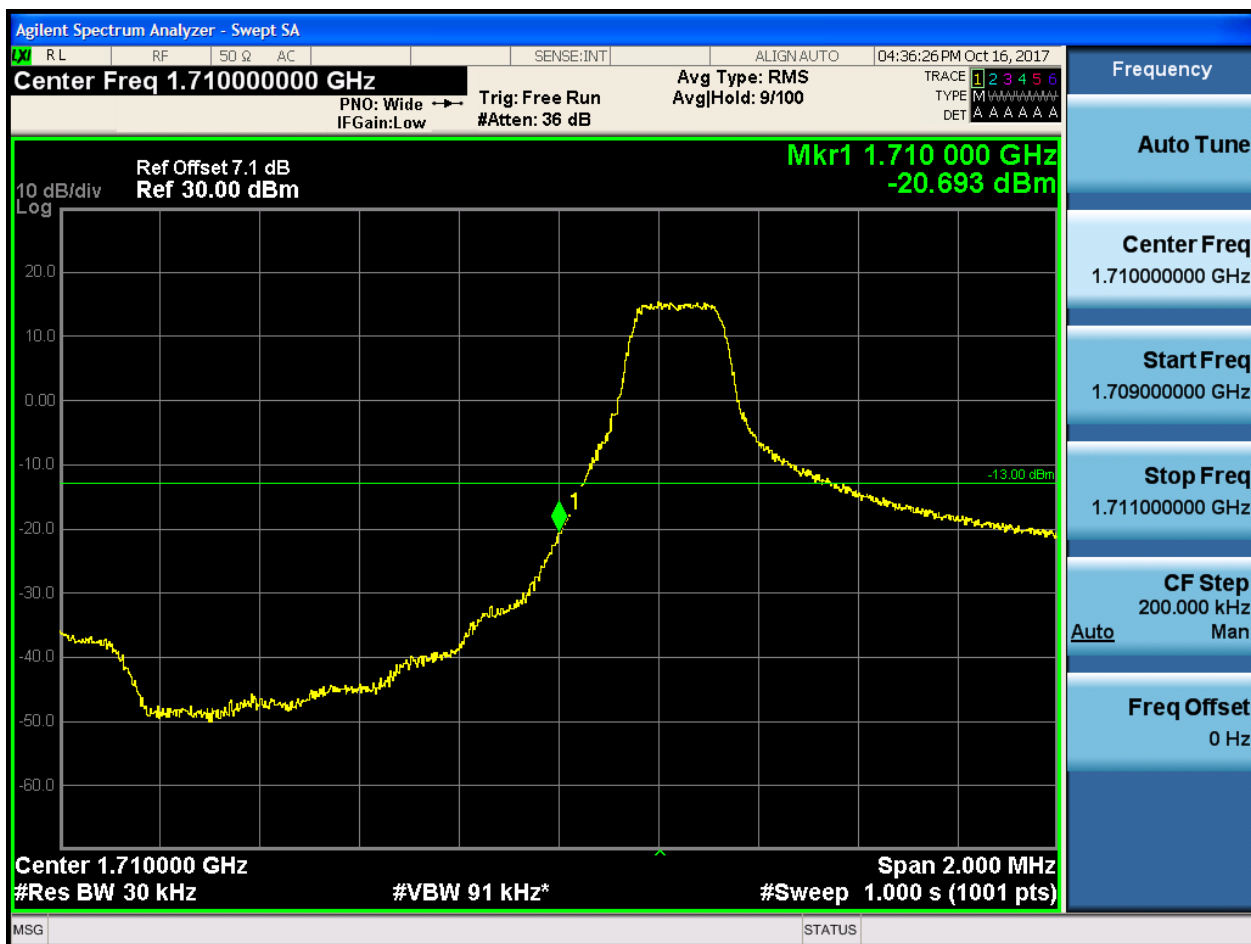
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.2 Test Bandwidth = 3

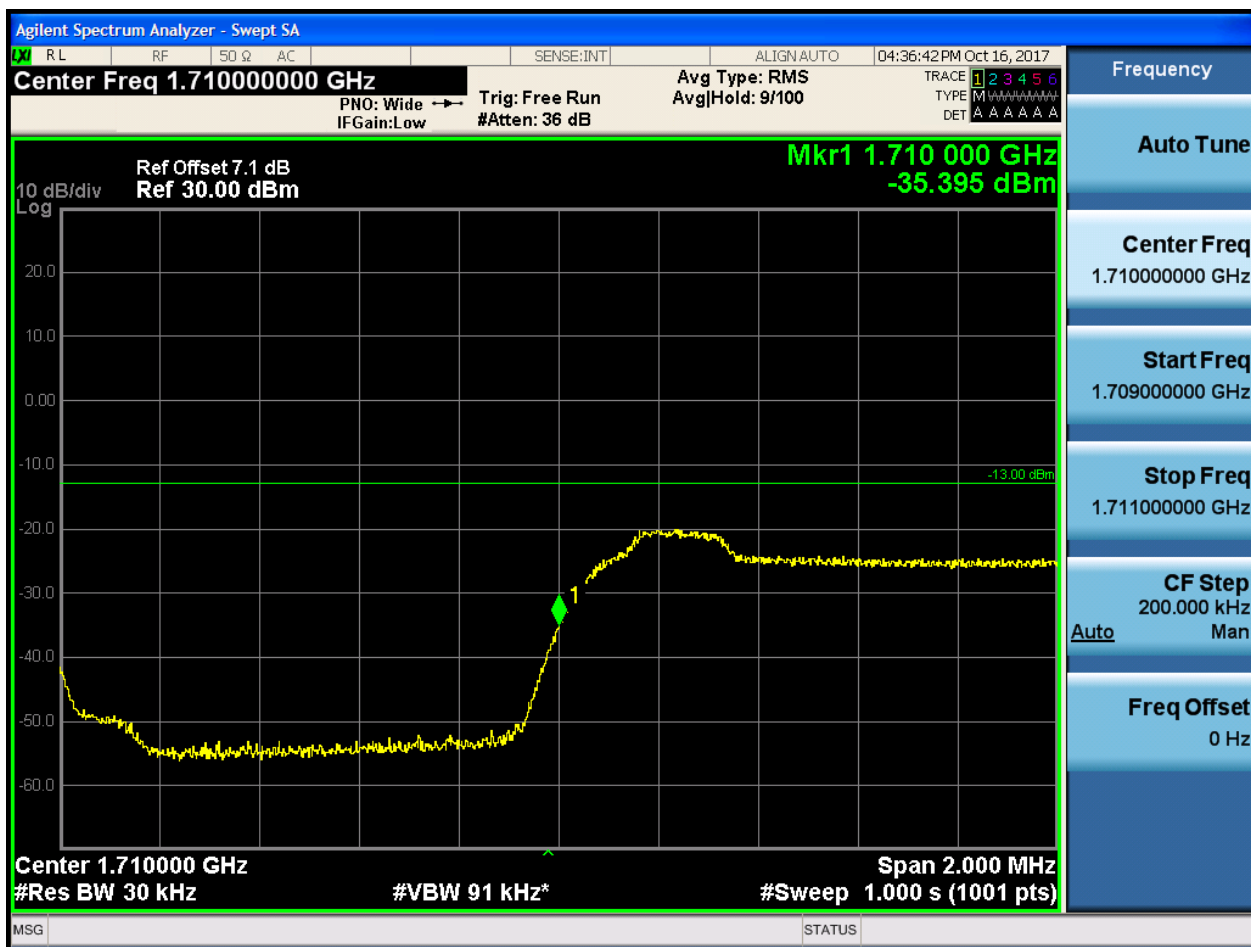
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#14





5.1.1.1.2.1.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:37:15PM Oct 16, 2017

Center Freq 1.710000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.710 000 GHz
-30.980 dBm

10 dB/div
Log

Center 1.710000 GHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

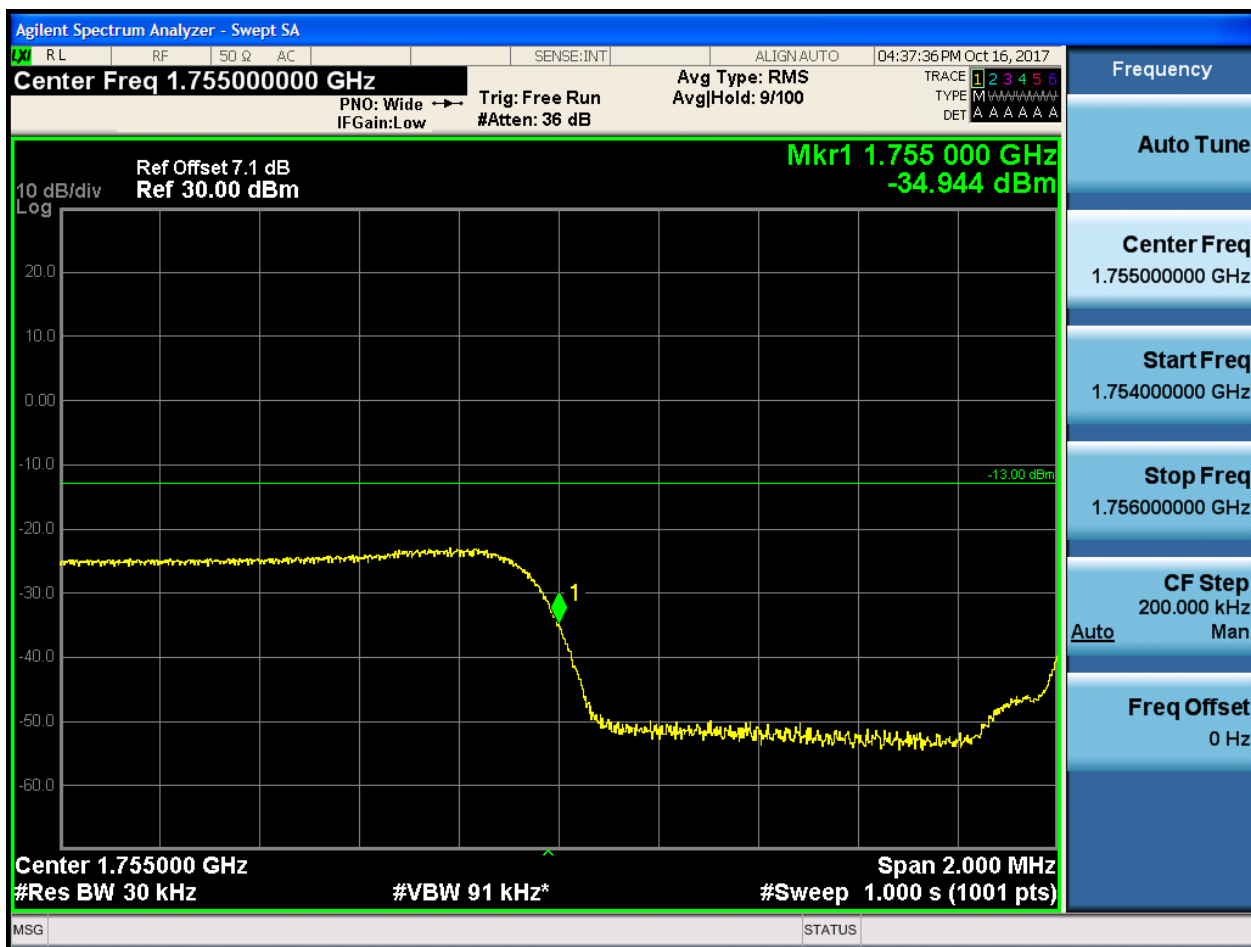
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS

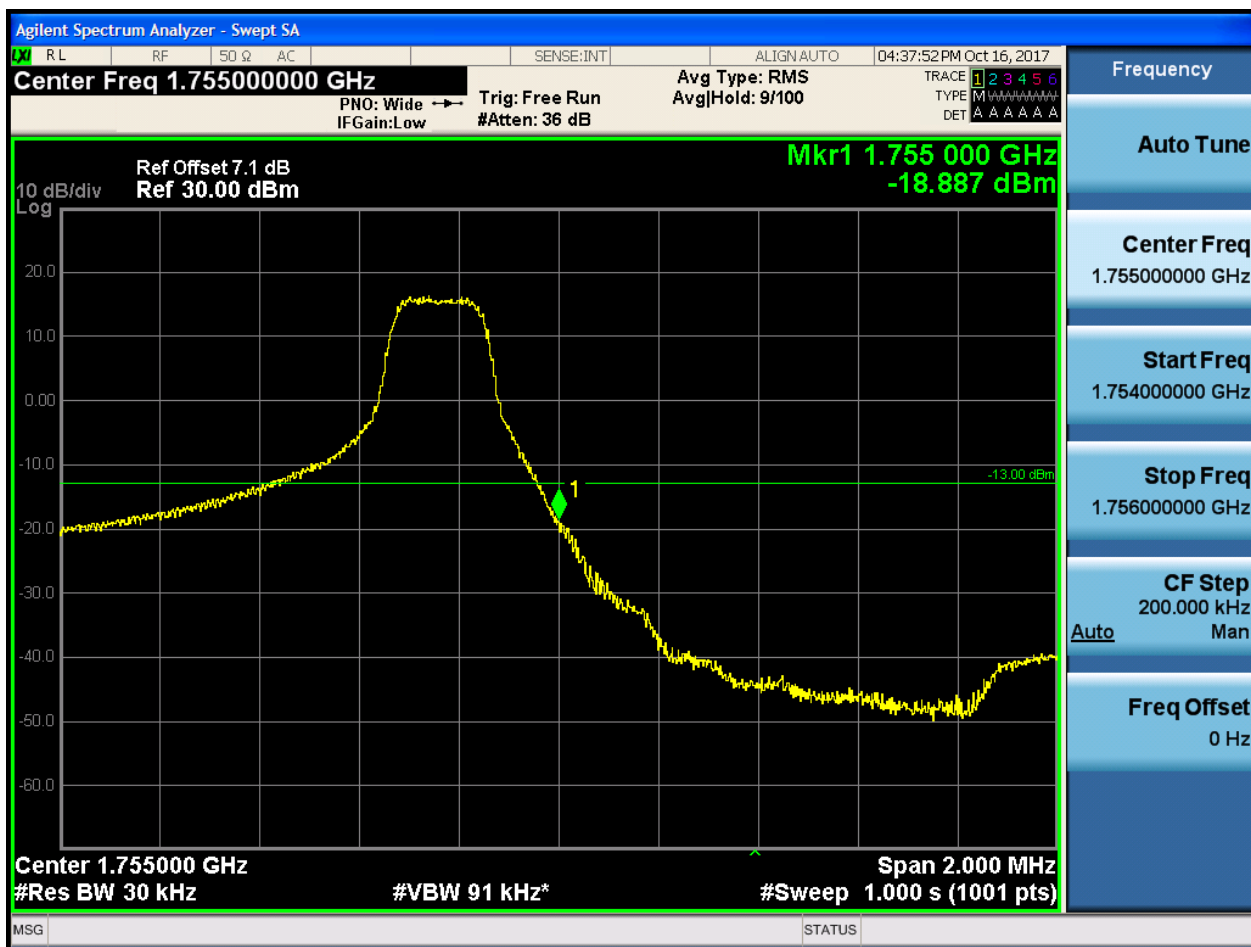
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:38:08 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run AvgHold: 9/100
IFGain:Low #Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 000 GHz
-33.112 dBm

10 dB/div
Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz
#Res BW 30 kHz #VBW 91 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 1.755000000 GHz
Start Freq 1.754000000 GHz
Stop Freq 1.756000000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:38:24 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 000 GHz
-29.341 dBm

10 dB/div
Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz
#Res BW 30 kHz #VBW 91 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

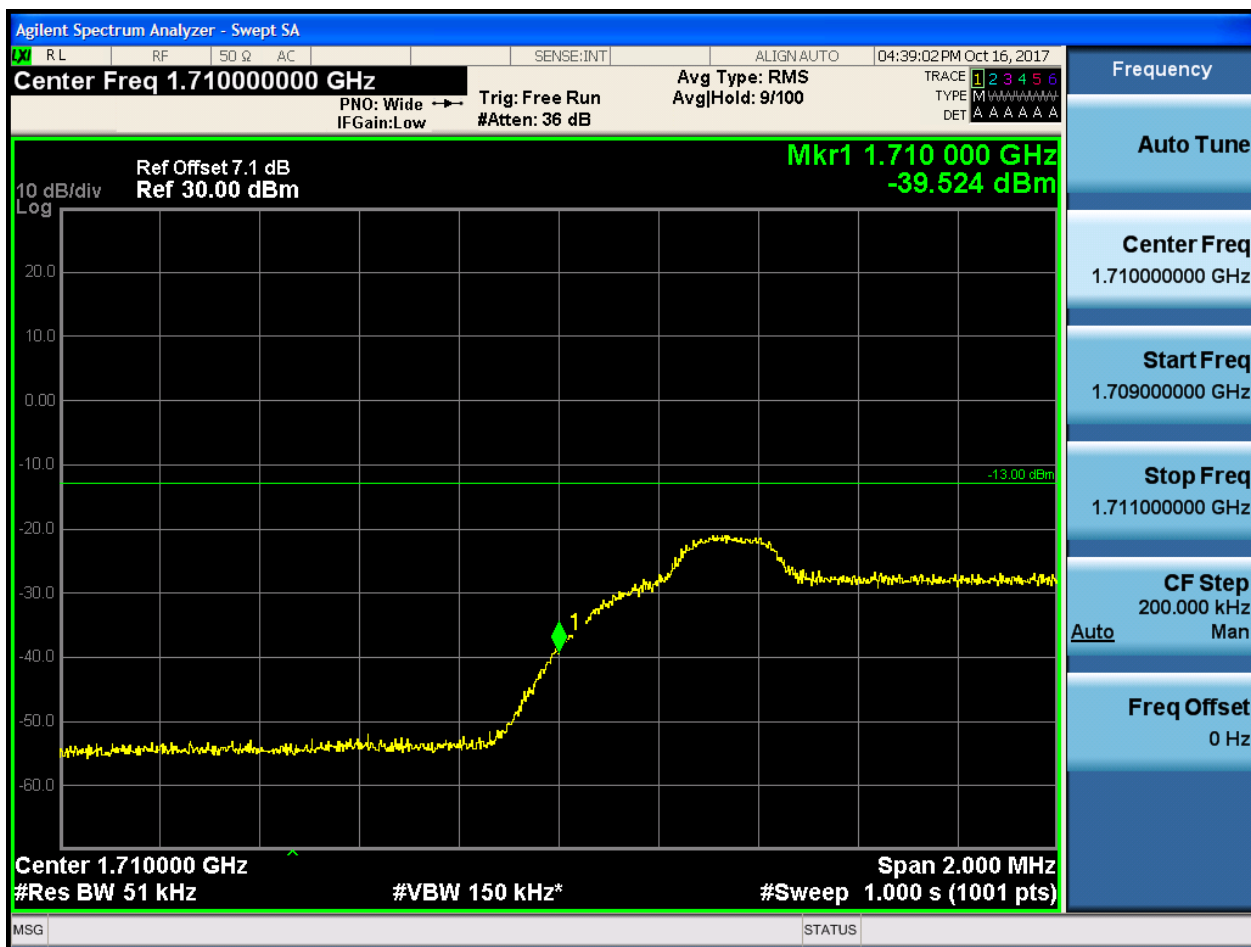
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz





5.1.1.1.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:39:18 PM Oct 16, 2017

Center Freq 1.710000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

10 dB/div Log Ref Offset 7.1 dB Ref 30.00 dBm Mkr1 1.710 000 GHz -34.196 dBm

Center 1.710000 GHz #Res BW 51 kHz #VBW 150 kHz* Span 2.000 MHz #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 1.710000000 GHz

Start Freq 1.709000000 GHz

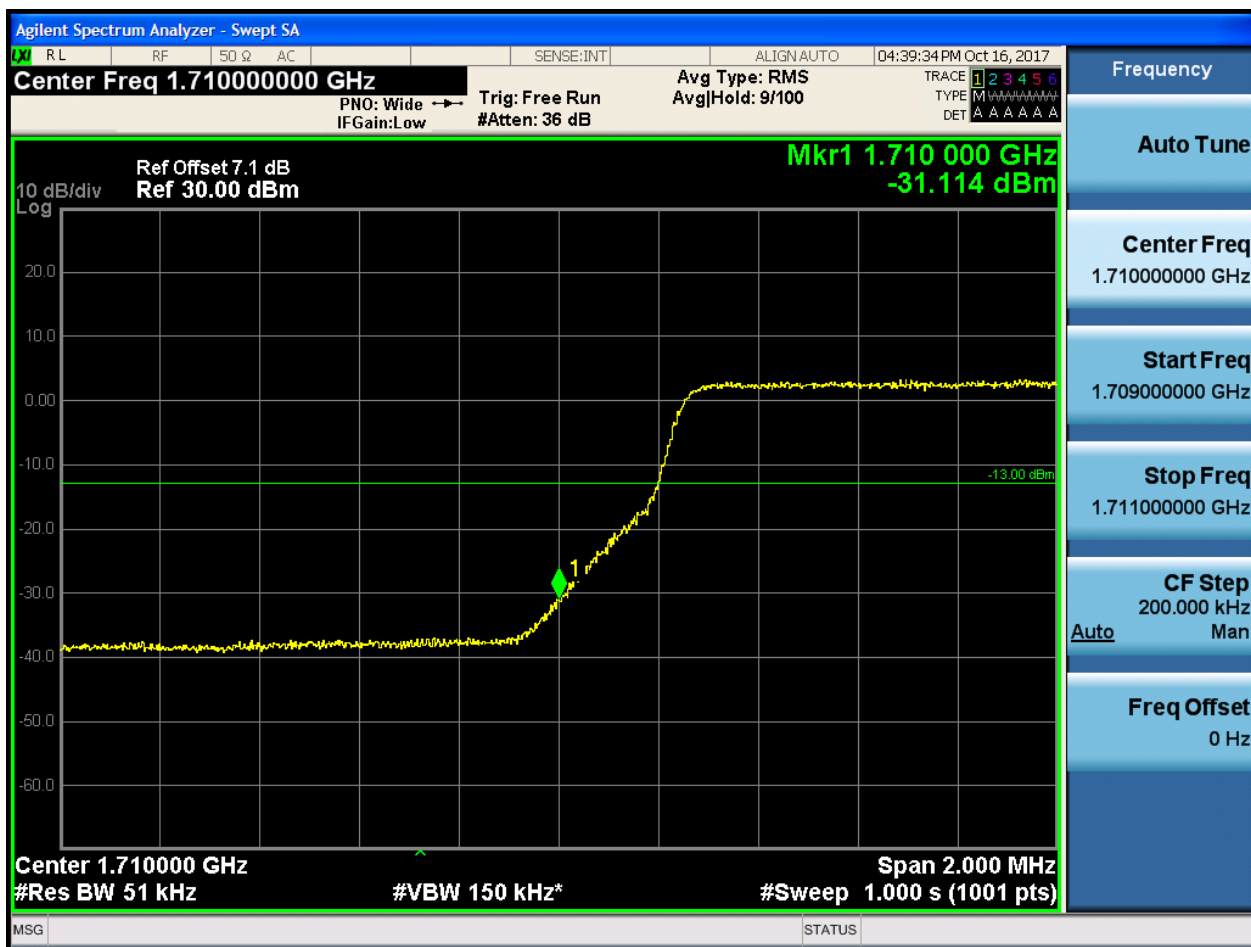
Stop Freq 1.711000000 GHz

CF Step 200.000 kHz Man

Freq Offset 0 Hz

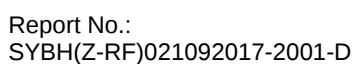


5.1.1.1.3.1.4 Test RB = RB25#0



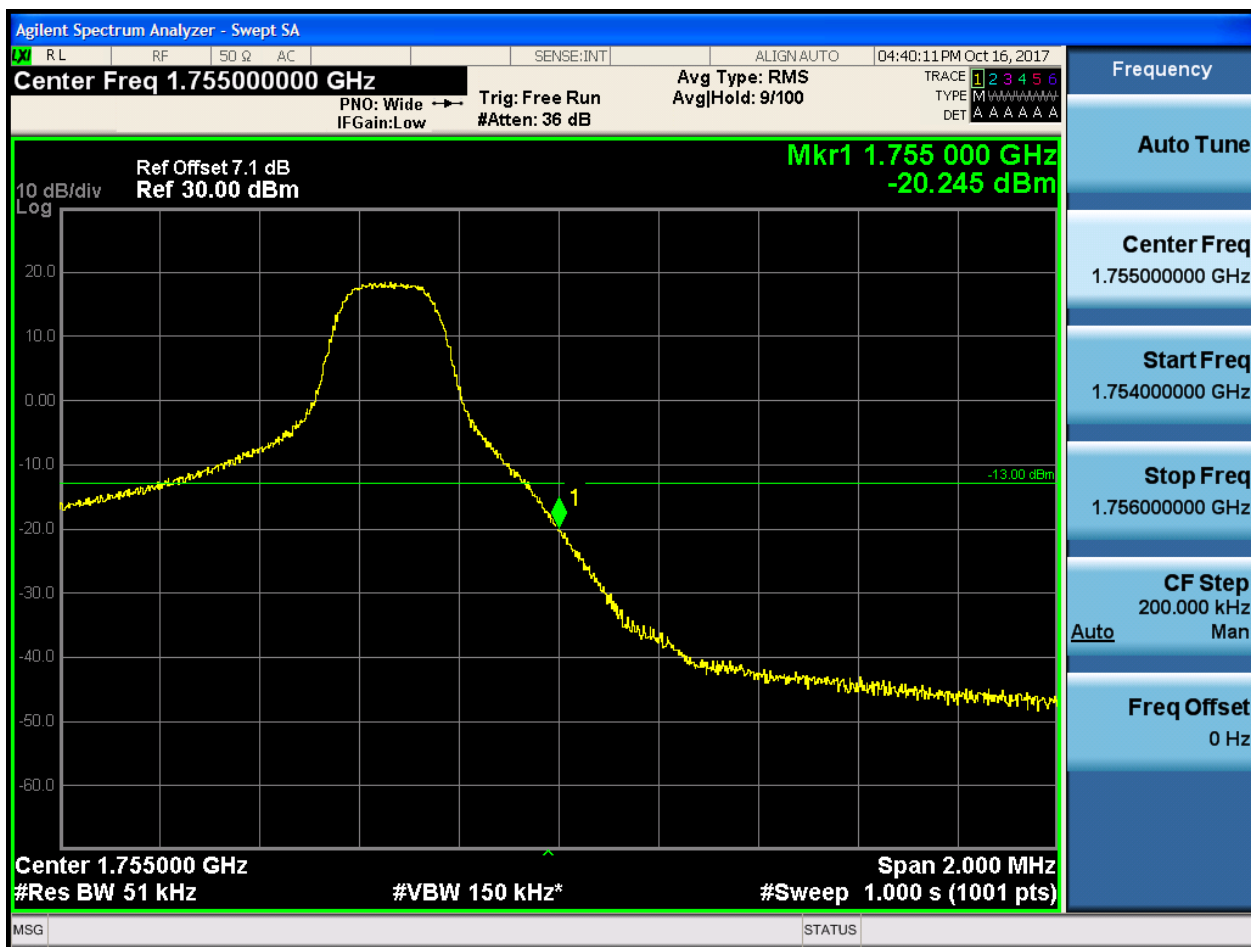


5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





5.1.1.1.3.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:40:42 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
#Atten: 36 dB TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 010 GHz
-30.047 dBm

10 dB/div
Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz
#Res BW 51 kHz #VBW 150 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

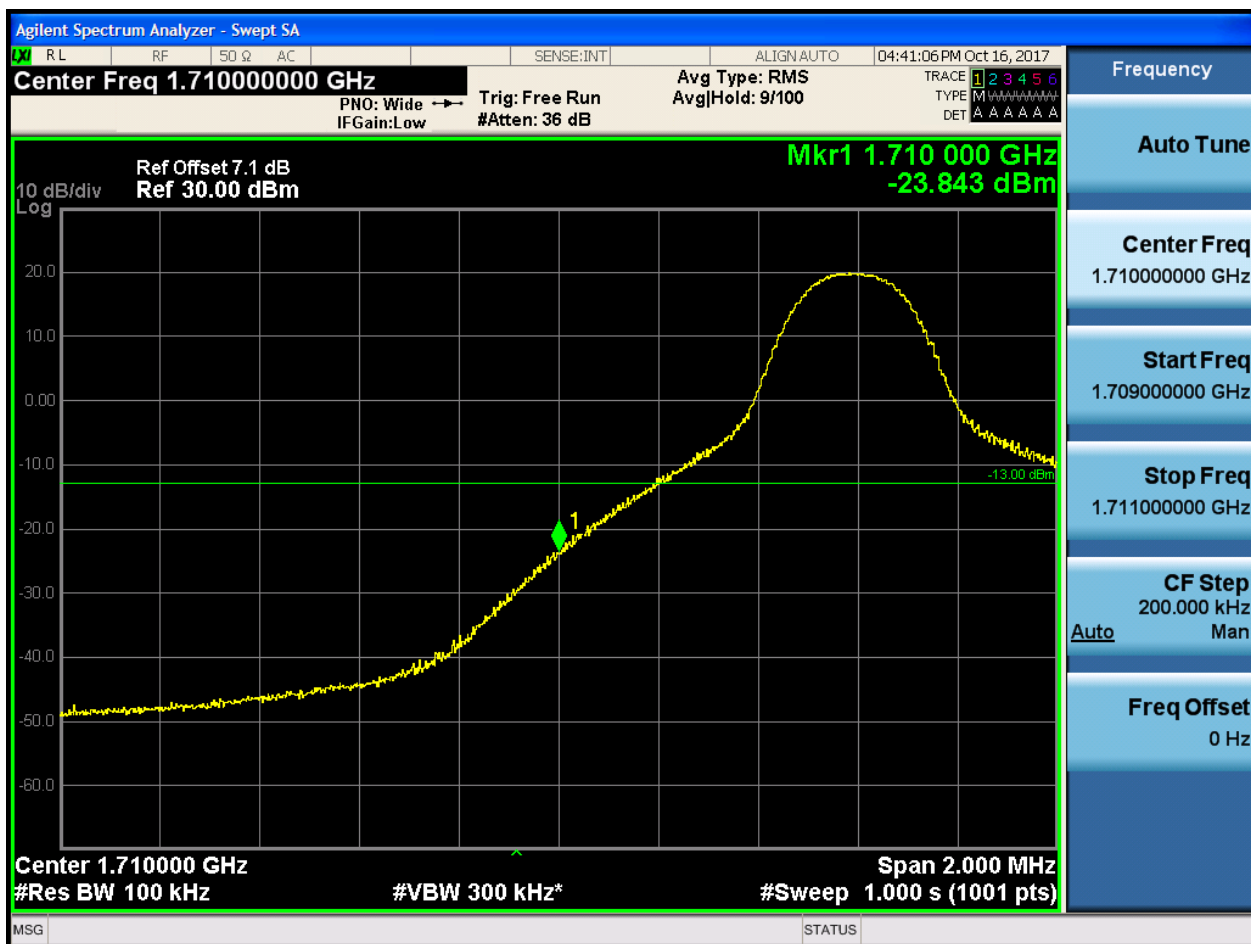
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.710 000 GHz
-42.154 dBm

Center 1.710000 GHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

Frequency
Auto Tune
Center Freq 1.710000000 GHz
Start Freq 1.709000000 GHz
Stop Freq 1.711000000 GHz
CF Step 200.000 kHz Auto
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.710 000 GHz
-36.479 dBm

Center 1.710000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer in Swept SA mode. The main display is a log-scale plot of power (dBm) versus frequency (GHz). The trace is yellow and shows a rising signal level from approximately -40 dBm at 1.709 GHz to -36.5 dBm at 1.710 GHz. A green diamond marker labeled '1' is placed on the trace at the center frequency. The right side of the screen features a control panel with various settings: Frequency (1.710 GHz), Auto Tune, Center Freq (1.710 GHz), Start Freq (1.709 GHz), Stop Freq (1.711 GHz), CF Step (200 kHz), Freq Offset (0 Hz), and a table of markers. The bottom status bar shows the center frequency, resolution bandwidth (100 kHz), video bandwidth (300 kHz), span (2 MHz), and sweep time (1 s). The top status bar displays the instrument name, various input/output settings, and the date/time.

Marker	Freq (GHz)	Power (dBm)
1	1.710000	-36.479



5.1.1.1.4.1.4 Test RB = RB50#0





5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:42:32 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 010 GHz
-23.180 dBm

10 dB/div
Log

Center 1.755000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:42:48 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
 PNO: Wide IFGain:Low Trig: Free Run AvgHold: 9/100
 #Atten: 36 dB

TRACE 1 2 3 4 5 6
 TYPE M
 DET A A A A A A

Ref Offset 7.1 dB
 Ref 30.00 dBm

Mkr1 1.755 970 GHz
-33.423 dBm

10 dB/div
 Log

Center 1.755000 GHz Span 2.000 MHz
 #Res BW 100 kHz #VBW 300 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
 1.755000000 GHz

Start Freq
 1.754000000 GHz

Stop Freq
 1.756000000 GHz

CF Step
 200.000 kHz
Auto Man

Freq Offset
 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:43:04 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 010 GHz
-31.674 dBm

10 dB/div
Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz
#Res BW 100 kHz #VBW 300 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

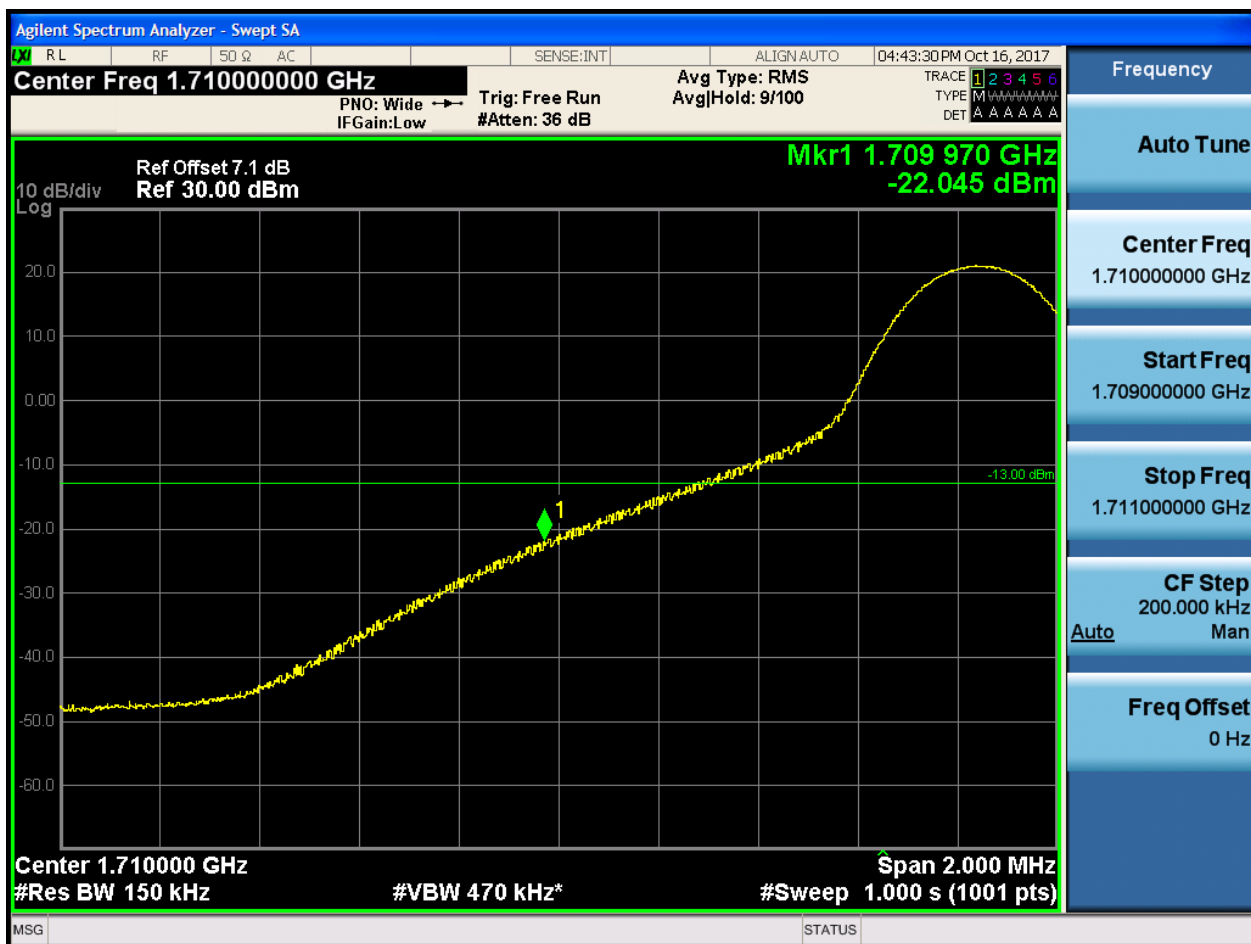
Freq Offset
0 Hz



5.1.1.1.5 Test Bandwidth = 15

5.1.1.1.5.1 Test Channel = LCH

5.1.1.1.5.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.710 000 GHz
-42.842 dBm

Center 1.710000 GHz
#Res BW 150 kHz
#VBW 470 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:46:44 PM Oct 16, 2017

Center Freq 1.710000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 100/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.710 000 GHz
-35.561 dBm

10 dB/div
Log

Center 1.710000 GHz
#Res BW 150 kHz #VBW 470 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 1.710000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.710 000 GHz
-32.645 dBm

Center 1.710000 GHz
#Res BW 150 kHz
#VBW 470 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
1.710000000 GHz

Start Freq
1.709000000 GHz

Stop Freq
1.711000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.5.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:47:37 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 000 GHz
-20.185 dBm

10 dB/div
Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

-13.00 dBm

Center 1.755000 GHz
#Res BW 150 kHz

#VBW 470 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:47:52 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 970 GHz
-32.013 dBm

10 dB/div
Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz
#Res BW 150 kHz #VBW 470 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 04:48:08 PM Oct 16, 2017

Center Freq 1.755000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.755 010 GHz
-29.936 dBm

10 dB/div
Log

-13.00 dBm

Center 1.755000 GHz Span 2.000 MHz
#Res BW 150 kHz #VBW 470 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.755000000 GHz

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.6 Test Bandwidth = 20

5.1.1.1.6.1 Test Channel = LCH

5.1.1.1.6.1.1 Test RB = RB1#0

