



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]	ERP [dBm]	Limit [dBm]	Verdict
BAND12	LTE/TM1	1.4	LCH	RB1#0	22.81	18.36	34.7	PASS
				RB1#3	23.04	18.59	34.7	PASS
				RB1#5	22.99	18.54	34.7	PASS
				RB3#0	22.91	18.46	34.7	PASS
				RB3#2	22.94	18.49	34.7	PASS
				RB3#3	22.93	18.48	34.7	PASS
				RB6#0	21.99	17.54	34.7	PASS
			MCH	RB1#0	22.8	18.35	34.7	PASS
				RB1#3	22.95	18.5	34.7	PASS
				RB1#5	23.04	18.59	34.7	PASS
				RB3#0	22.94	18.49	34.7	PASS
				RB3#2	23.08	18.63	34.7	PASS
				RB3#3	23.05	18.6	34.7	PASS
				RB6#0	21.95	17.5	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.76	18.31	34.7	PASS
				RB1#3	23.19	18.74	34.7	PASS
				RB1#5	22.84	18.39	34.7	PASS
				RB3#0	22.8	18.35	34.7	PASS
				RB3#2	22.99	18.54	34.7	PASS
				RB3#3	22.83	18.38	34.7	PASS
				RB6#0	21.96	17.51	34.7	PASS
		3	LCH	RB1#0	23	18.55	34.7	PASS
				RB1#7	23.22	18.77	34.7	PASS
				RB1#14	23.04	18.59	34.7	PASS
				RB8#0	22.03	17.58	34.7	PASS
				RB8#4	21.96	17.51	34.7	PASS
				RB8#7	21.87	17.42	34.7	PASS
				RB15#0	21.96	17.51	34.7	PASS
			MCH	RB1#0	23.07	18.62	34.7	PASS
				RB1#7	22.98	18.53	34.7	PASS
				RB1#14	22.81	18.36	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	22.04	17.59	34.7	PASS
				RB8#4	22.05	17.6	34.7	PASS
				RB8#7	22.03	17.58	34.7	PASS
				RB15#0	21.94	17.49	34.7	PASS
			HCH	RB1#0	23.02	18.57	34.7	PASS
				RB1#7	23.15	18.7	34.7	PASS
				RB1#14	23.07	18.62	34.7	PASS
				RB8#0	21.97	17.52	34.7	PASS
				RB8#4	21.86	17.41	34.7	PASS
				RB8#7	21.87	17.42	34.7	PASS
				RB15#0	21.96	17.51	34.7	PASS
		5	LCH	RB1#0	22.75	18.3	34.7	PASS
				RB1#13	23.03	18.58	34.7	PASS
				RB1#24	22.82	18.37	34.7	PASS
				RB12#0	21.95	17.5	34.7	PASS
				RB12#6	21.95	17.5	34.7	PASS
				RB12#13	21.88	17.43	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.9	17.45	34.7	PASS
			MCH	RB1#0	22.73	18.28	34.7	PASS
				RB1#13	23.05	18.6	34.7	PASS
				RB1#24	22.81	18.36	34.7	PASS
				RB12#0	21.99	17.54	34.7	PASS
				RB12#6	21.97	17.52	34.7	PASS
				RB12#13	22.03	17.58	34.7	PASS
				RB25#0	21.97	17.52	34.7	PASS
			HCH	RB1#0	22.72	18.27	34.7	PASS
				RB1#13	22.64	18.19	34.7	PASS
				RB1#24	22.47	18.02	34.7	PASS
				RB12#0	21.83	17.38	34.7	PASS
				RB12#6	21.85	17.4	34.7	PASS
				RB12#13	21.81	17.36	34.7	PASS
				RB25#0	21.9	17.45	34.7	PASS
		10	LCH	RB1#0	22.88	18.43	34.7	PASS
				RB1#25	23.27	18.82	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	23.09	18.64	34.7	PASS
				RB25#0	21.96	17.51	34.7	PASS
				RB25#13	21.95	17.5	34.7	PASS
				RB25#25	21.97	17.52	34.7	PASS
				RB50#0	22.01	17.56	34.7	PASS
			MCH	RB1#0	22.75	18.3	34.7	PASS
				RB1#25	23.01	18.56	34.7	PASS
				RB1#49	22.68	18.23	34.7	PASS
				RB25#0	21.91	17.46	34.7	PASS
				RB25#13	22.02	17.57	34.7	PASS
				RB25#25	21.86	17.41	34.7	PASS
				RB50#0	21.94	17.49	34.7	PASS
			HCH	RB1#0	22.94	18.49	34.7	PASS
				RB1#25	23.06	18.61	34.7	PASS
				RB1#49	22.79	18.34	34.7	PASS
				RB25#0	22.05	17.6	34.7	PASS
				RB25#13	21.94	17.49	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.96	17.51	34.7	PASS
				RB50#0	21.91	17.46	34.7	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.54	17.09	34.7	PASS
				RB1#3	21.87	17.42	34.7	PASS
				RB1#5	21.36	16.91	34.7	PASS
				RB3#0	21.71	17.26	34.7	PASS
				RB3#2	21.79	17.34	34.7	PASS
				RB3#3	21.79	17.34	34.7	PASS
				RB6#0	20.83	16.38	34.7	PASS
			MCH	RB1#0	22.21	17.76	34.7	PASS
				RB1#3	22.25	17.8	34.7	PASS
				RB1#5	22.2	17.75	34.7	PASS
				RB3#0	21.91	17.46	34.7	PASS
				RB3#2	21.75	17.3	34.7	PASS
				RB3#3	21.75	17.3	34.7	PASS
				RB6#0	20.92	16.47	34.7	PASS
			HCH	RB1#0	21.54	17.09	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	21.61	17.16	34.7	PASS
				RB1#5	21.63	17.18	34.7	PASS
				RB3#0	21.46	17.01	34.7	PASS
				RB3#2	21.65	17.2	34.7	PASS
				RB3#3	21.93	17.48	34.7	PASS
				RB6#0	20.81	16.36	34.7	PASS
		3	LCH	RB1#0	21.85	17.4	34.7	PASS
				RB1#7	22.06	17.61	34.7	PASS
				RB1#14	21.96	17.51	34.7	PASS
				RB8#0	20.9	16.45	34.7	PASS
				RB8#4	20.92	16.47	34.7	PASS
				RB8#7	20.94	16.49	34.7	PASS
				RB15#0	20.91	16.46	34.7	PASS
			MCH	RB1#0	22.08	17.63	34.7	PASS
				RB1#7	22.43	17.98	34.7	PASS
				RB1#14	22.18	17.73	34.7	PASS
				RB8#0	21.15	16.7	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#4	20.84	16.39	34.7	PASS
				RB8#7	20.83	16.38	34.7	PASS
				RB15#0	20.96	16.51	34.7	PASS
			HCH	RB1#0	21.99	17.54	34.7	PASS
				RB1#7	22.22	17.77	34.7	PASS
				RB1#14	21.95	17.5	34.7	PASS
				RB8#0	21.18	16.73	34.7	PASS
				RB8#4	21.01	16.56	34.7	PASS
				RB8#7	20.97	16.52	34.7	PASS
				RB15#0	20.83	16.38	34.7	PASS
		5	LCH	RB1#0	21.54	17.09	34.7	PASS
				RB1#13	21.7	17.25	34.7	PASS
				RB1#24	21.44	16.99	34.7	PASS
				RB12#0	20.76	16.31	34.7	PASS
				RB12#6	20.95	16.5	34.7	PASS
				RB12#13	20.96	16.51	34.7	PASS
				RB25#0	20.91	16.46	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.11	16.66	34.7	PASS
				RB1#13	21.52	17.07	34.7	PASS
				RB1#24	21.2	16.75	34.7	PASS
				RB12#0	20.76	16.31	34.7	PASS
				RB12#6	20.74	16.29	34.7	PASS
				RB12#13	20.7	16.25	34.7	PASS
				RB25#0	21.17	16.72	34.7	PASS
			HCH	RB1#0	22.21	17.76	34.7	PASS
				RB1#13	22.07	17.62	34.7	PASS
				RB1#24	21.8	17.35	34.7	PASS
				RB12#0	20.93	16.48	34.7	PASS
				RB12#6	21.02	16.57	34.7	PASS
				RB12#13	20.89	16.44	34.7	PASS
				RB25#0	20.9	16.45	34.7	PASS
		10	LCH	RB1#0	21.86	17.41	34.7	PASS
				RB1#25	22.11	17.66	34.7	PASS
				RB1#49	21.91	17.46	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.98	16.53	34.7	PASS
				RB25#13	21.01	16.56	34.7	PASS
				RB25#25	20.93	16.48	34.7	PASS
				RB50#0	21	16.55	34.7	PASS
			MCH	RB1#0	21.66	17.21	34.7	PASS
				RB1#25	22.23	17.78	34.7	PASS
				RB1#49	21.73	17.28	34.7	PASS
				RB25#0	21.08	16.63	34.7	PASS
				RB25#13	21.08	16.63	34.7	PASS
				RB25#25	20.95	16.5	34.7	PASS
				RB50#0	20.99	16.54	34.7	PASS
			HCH	RB1#0	21.65	17.2	34.7	PASS
				RB1#25	22.04	17.59	34.7	PASS
				RB1#49	21.37	16.92	34.7	PASS
				RB25#0	21.03	16.58	34.7	PASS
				RB25#13	21.18	16.73	34.7	PASS
				RB25#25	21.2	16.75	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.96	16.51	34.7	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:

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

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

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

$$\text{SET Sweep time} = \text{auto-couple.}$$

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
BAND12	LTE/TM1	1.4	LCH	RB1#0	3.85	13	PASS
				RB1#3	3.8	13	PASS
				RB1#5	3.86	13	PASS
				RB3#0	4.19	13	PASS
				RB3#2	4.07	13	PASS
				RB3#3	4.19	13	PASS
				RB6#0	5.24	13	PASS
			MCH	RB1#0	3.68	13	PASS
				RB1#3	3.65	13	PASS
				RB1#5	3.76	13	PASS
				RB3#0	3.93	13	PASS
				RB3#2	3.71	13	PASS
				RB3#3	3.91	13	PASS
				RB6#0	4.86	13	PASS
			HCH	RB1#0	3.74	13	PASS
				RB1#3	3.51	13	PASS
				RB1#5	3.62	13	PASS
				RB3#0	3.86	13	PASS
				RB3#2	3.66	13	PASS
				RB3#3	3.78	13	PASS
				RB6#0	4.83	13	PASS
		3	LCH	RB1#0	3.95	13	PASS
				RB1#7	3.89	13	PASS
				RB1#14	3.94	13	PASS
				RB8#0	4.64	13	PASS
				RB8#4	4.56	13	PASS
				RB8#7	4.76	13	PASS
				RB15#0	4.96	13	PASS
			MCH	RB1#0	3.64	13	PASS
				RB1#7	3.65	13	PASS
				RB1#14	3.84	13	PASS
				RB8#0	4.45	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	4.34	13	PASS
				RB8#7	4.53	13	PASS
				RB15#0	5.1	13	PASS
			HCH	RB1#0	3.96	13	PASS
				RB1#7	3.63	13	PASS
				RB1#14	3.55	13	PASS
				RB8#0	4.59	13	PASS
				RB8#4	4.45	13	PASS
				RB8#7	4.5	13	PASS
				RB15#0	4.98	13	PASS
		5	LCH	RB1#0	3.79	13	PASS
				RB1#13	3.81	13	PASS
				RB1#24	3.82	13	PASS
				RB12#0	4.61	13	PASS
				RB12#6	4.5	13	PASS
				RB12#13	4.61	13	PASS
				RB25#0	4.97	13	PASS
			MCH	RB1#0	3.75	13	PASS
				RB1#13	3.6	13	PASS
				RB1#24	3.97	13	PASS
				RB12#0	4.31	13	PASS
				RB12#6	4.19	13	PASS
				RB12#13	4.48	13	PASS
				RB25#0	5.08	13	PASS
			HCH	RB1#0	4.18	13	PASS
				RB1#13	3.94	13	PASS
				RB1#24	3.83	13	PASS
				RB12#0	4.66	13	PASS
				RB12#6	4.47	13	PASS
				RB12#13	4.5	13	PASS
				RB25#0	5.05	13	PASS
		10	LCH	RB1#0	3.95	13	PASS
				RB1#25	3.59	13	PASS
				RB1#49	3.75	13	PASS
				RB25#0	4.65	13	PASS
				RB25#13	4.41	13	PASS
				RB25#25	4.47	13	PASS
				RB50#0	5.22	13	PASS
			MCH	RB1#0	3.99	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#25	3.59	13	PASS
				RB1#49	4.09	13	PASS
				RB25#0	4.41	13	PASS
				RB25#13	4.33	13	PASS
				RB25#25	4.61	13	PASS
				RB50#0	5.25	13	PASS
			HCH	RB1#0	3.61	13	PASS
				RB1#25	3.91	13	PASS
				RB1#49	3.6	13	PASS
				RB25#0	4.61	13	PASS
				RB25#13	4.57	13	PASS
				RB25#25	4.66	13	PASS
				RB50#0	5.36	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.86	13	PASS
				RB1#3	4.88	13	PASS
				RB1#5	4.97	13	PASS
				RB3#0	5.14	13	PASS
				RB3#2	5.1	13	PASS
				RB3#3	5.2	13	PASS
				RB6#0	5.8	13	PASS
			MCH	RB1#0	4.59	13	PASS
				RB1#3	4.68	13	PASS
				RB1#5	4.69	13	PASS
				RB3#0	4.75	13	PASS
				RB3#2	4.58	13	PASS
				RB3#3	4.76	13	PASS
				RB6#0	5.51	13	PASS
		3	HCH	RB1#0	4.6	13	PASS
				RB1#3	4.39	13	PASS
				RB1#5	4.42	13	PASS
				RB3#0	4.77	13	PASS
				RB3#2	4.48	13	PASS
				RB3#3	4.65	13	PASS
				RB6#0	5.89	13	PASS
			LCH	RB1#0	4.6	13	PASS
				RB1#7	4.7	13	PASS
				RB1#14	4.77	13	PASS
				RB8#0	5.56	13	PASS
				RB8#4	5.43	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#7	5.64	13	PASS
				RB15#0	6.18	13	PASS
			MCH	RB1#0	4.41	13	PASS
				RB1#7	4.39	13	PASS
				RB1#14	4.64	13	PASS
				RB8#0	5.15	13	PASS
				RB8#4	5.18	13	PASS
				RB8#7	5.25	13	PASS
				RB15#0	5.73	13	PASS
			HCH	RB1#0	5.03	13	PASS
				RB1#7	4.84	13	PASS
				RB1#14	4.76	13	PASS
				RB8#0	5.6	13	PASS
				RB8#4	5.38	13	PASS
				RB8#7	5.32	13	PASS
				RB15#0	5.78	13	PASS
		5	LCH	RB1#0	4.92	13	PASS
				RB1#13	4.93	13	PASS
				RB1#24	5.02	13	PASS
				RB12#0	5.51	13	PASS
				RB12#6	5.37	13	PASS
				RB12#13	5.48	13	PASS
				RB25#0	5.92	13	PASS
			MCH	RB1#0	4.66	13	PASS
				RB1#13	4.66	13	PASS
				RB1#24	5.09	13	PASS
				RB12#0	5.16	13	PASS
				RB12#6	5.09	13	PASS
				RB12#13	5.31	13	PASS
				RB25#0	6.09	13	PASS
			HCH	RB1#0	4.61	13	PASS
				RB1#13	4.49	13	PASS
				RB1#24	4.41	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.35	13	PASS
				RB12#13	5.32	13	PASS
				RB25#0	6.03	13	PASS
		10	LCH	RB1#0	4.98	13	PASS
				RB1#25	4.49	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.92	13	PASS
				RB25#0	5.63	13	PASS
				RB25#13	5.31	13	PASS
				RB25#25	5.44	13	PASS
				RB50#0	5.9	13	PASS
			MCH	RB1#0	5.01	13	PASS
				RB1#25	4.67	13	PASS
				RB1#49	5.26	13	PASS
				RB25#0	5.3	13	PASS
				RB25#13	5.17	13	PASS
				RB25#25	5.46	13	PASS
				RB50#0	5.73	13	PASS
			HCH	RB1#0	4.49	13	PASS
				RB1#25	4.79	13	PASS
				RB1#49	4.71	13	PASS
				RB25#0	5.4	13	PASS
				RB25#13	5.4	13	PASS
				RB25#25	5.43	13	PASS
				RB50#0	5.81	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

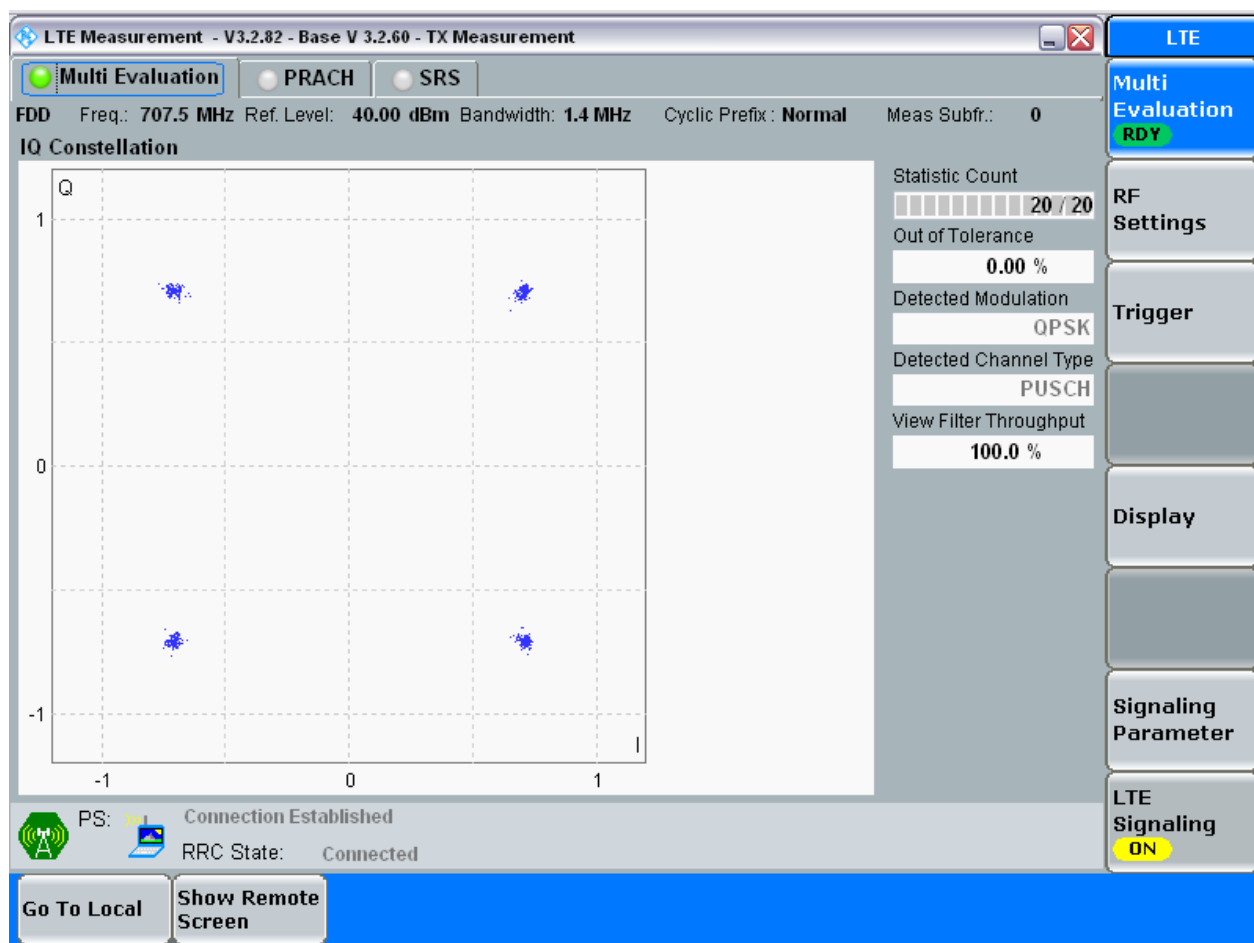
3.1.1 Test Band = BAND12

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

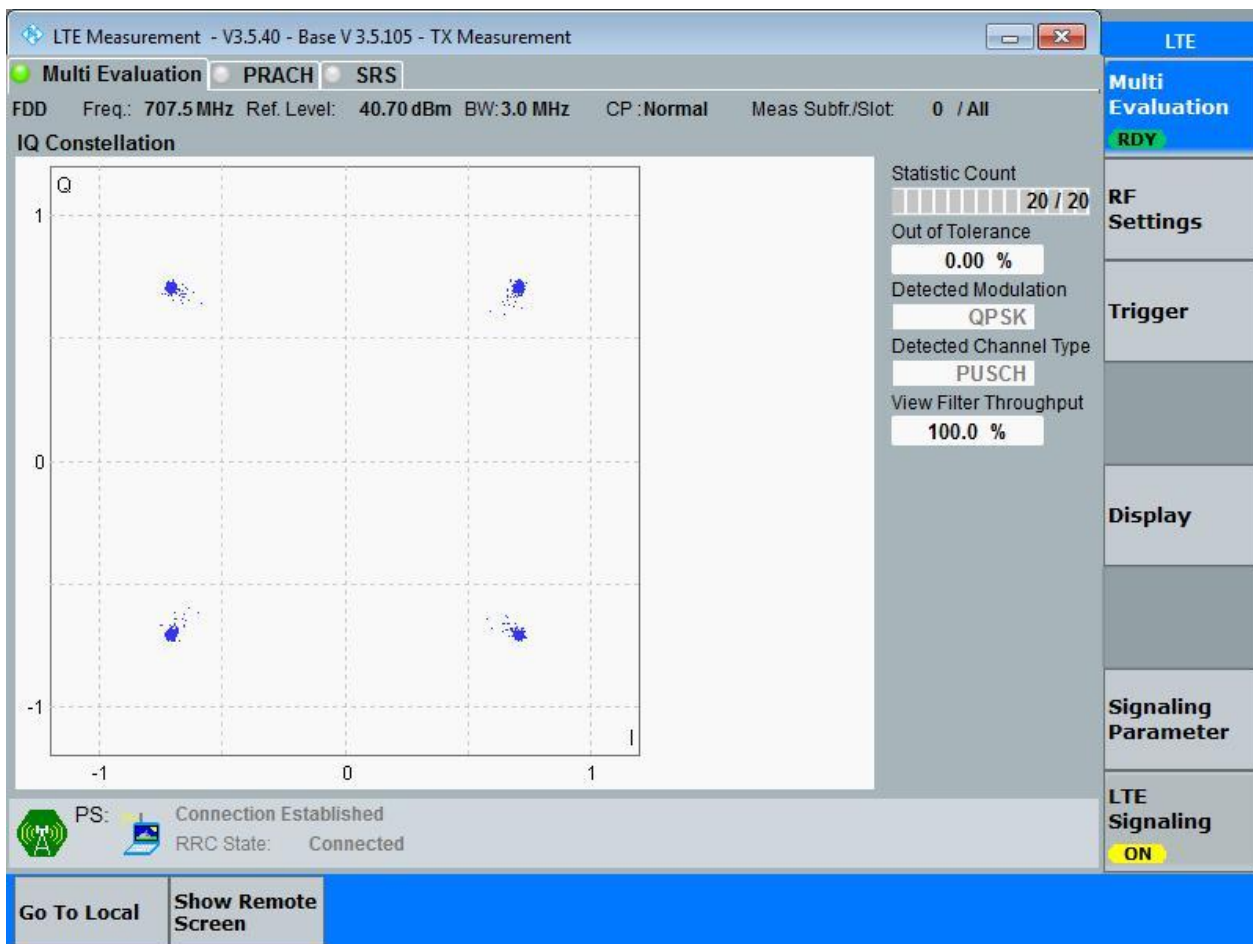
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

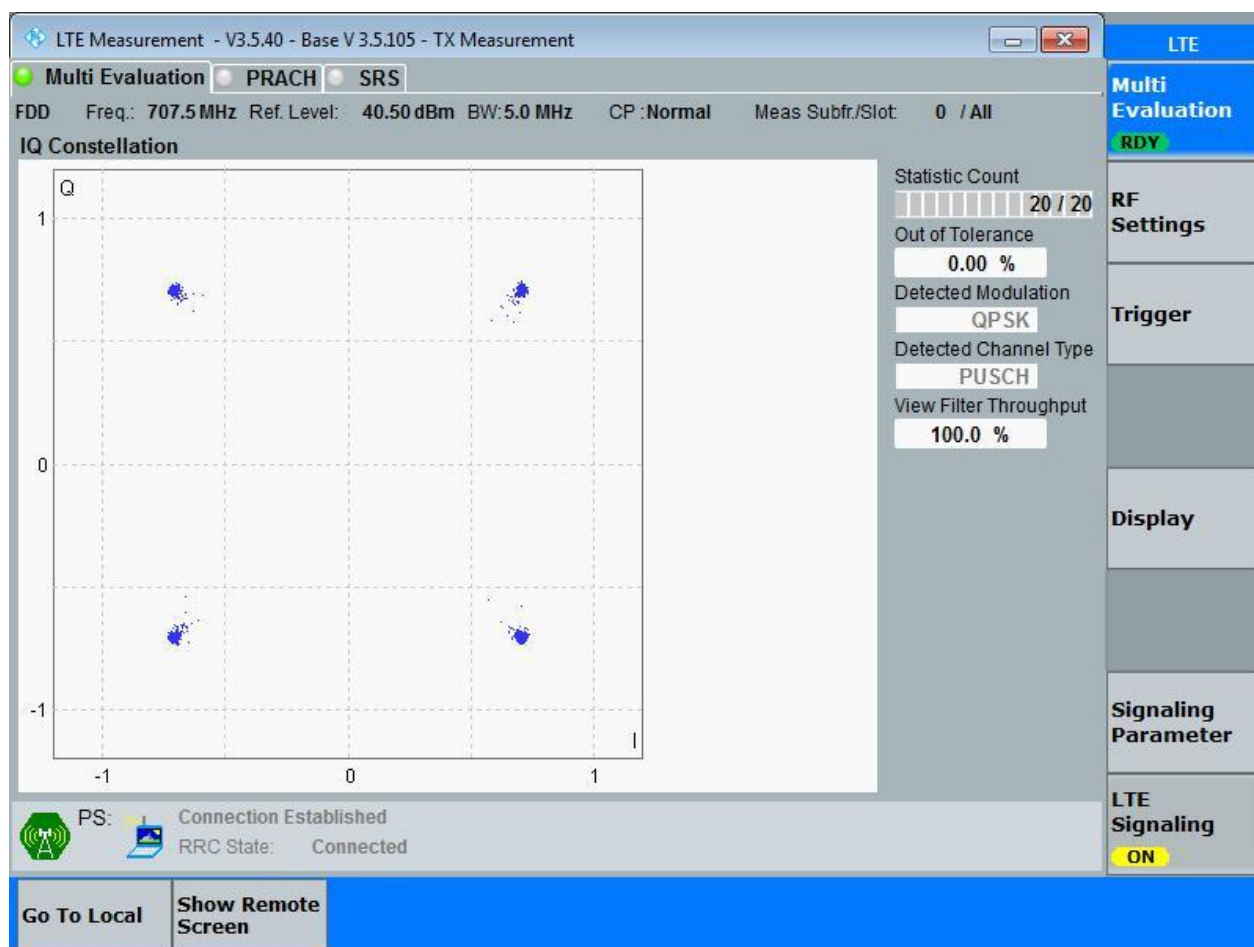
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

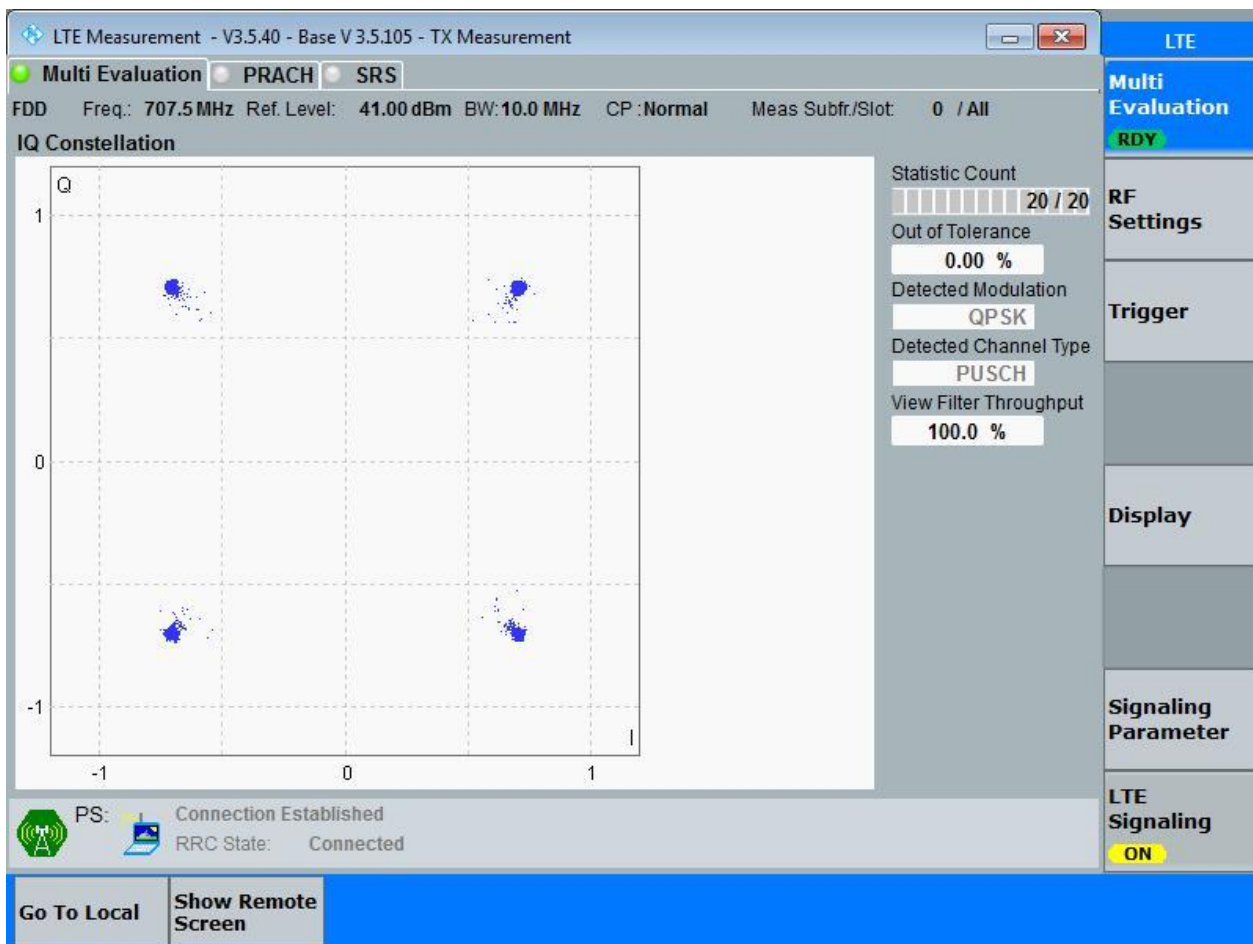
3.1.1.1.3.1.1 Test RB = RB25#0



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

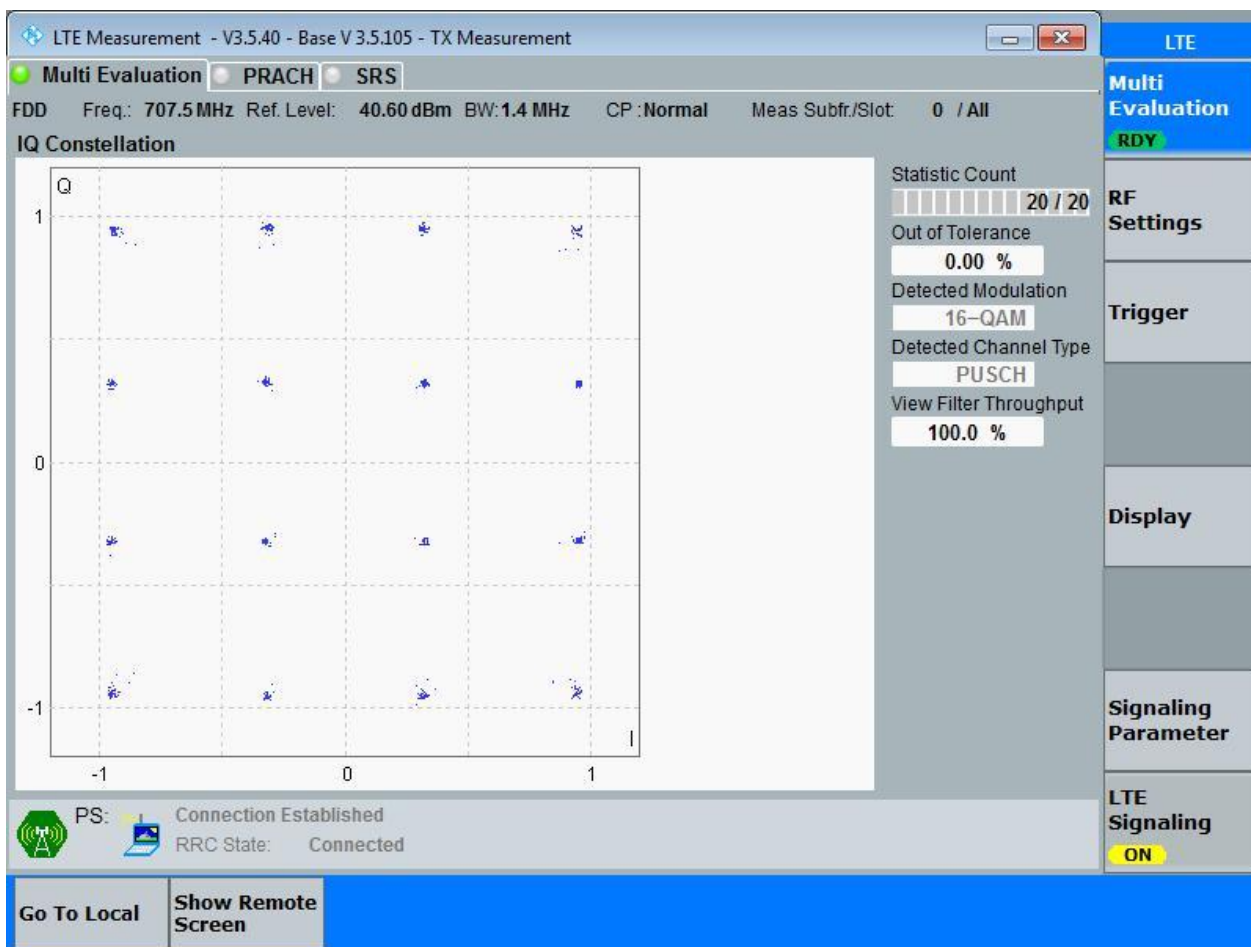


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

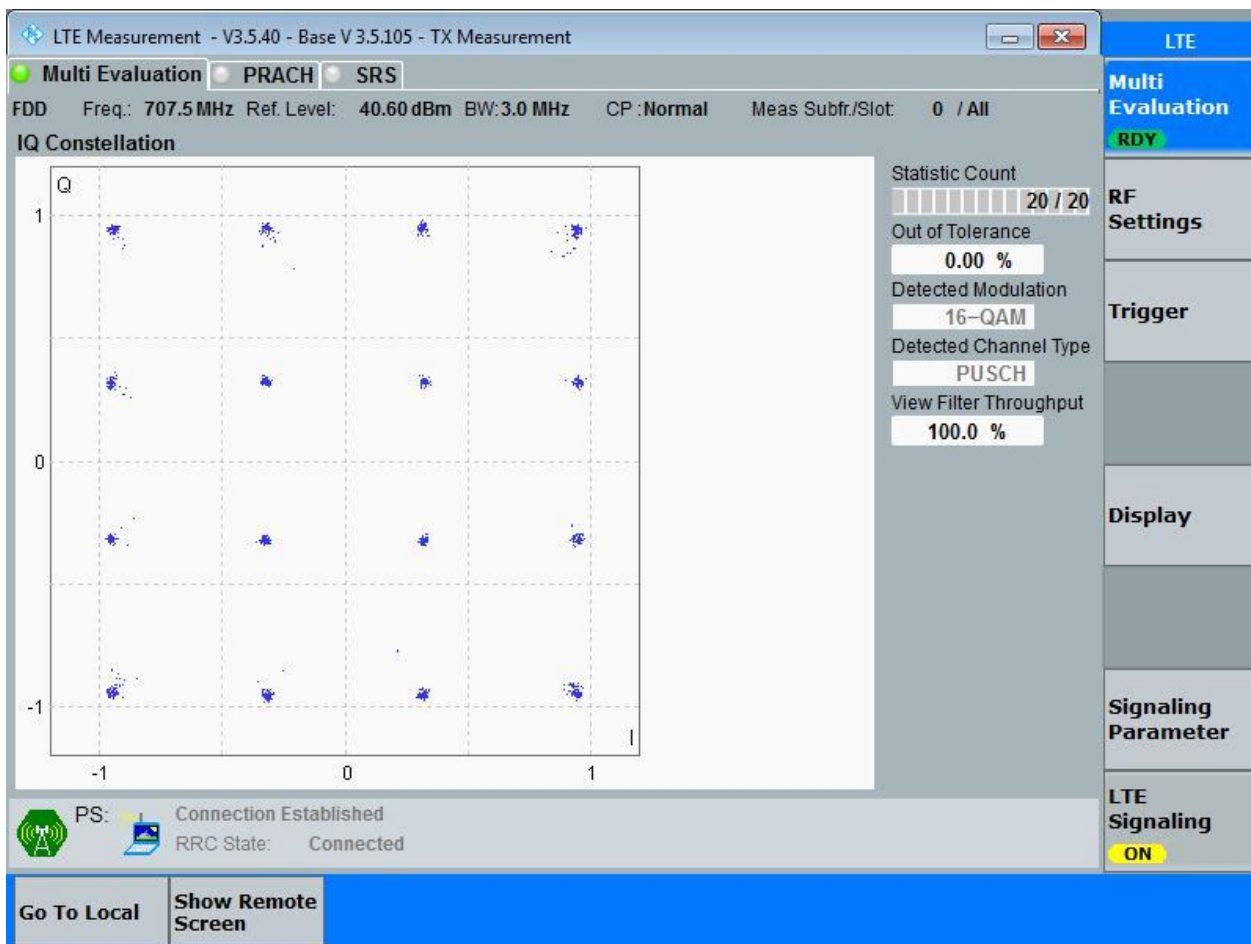
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

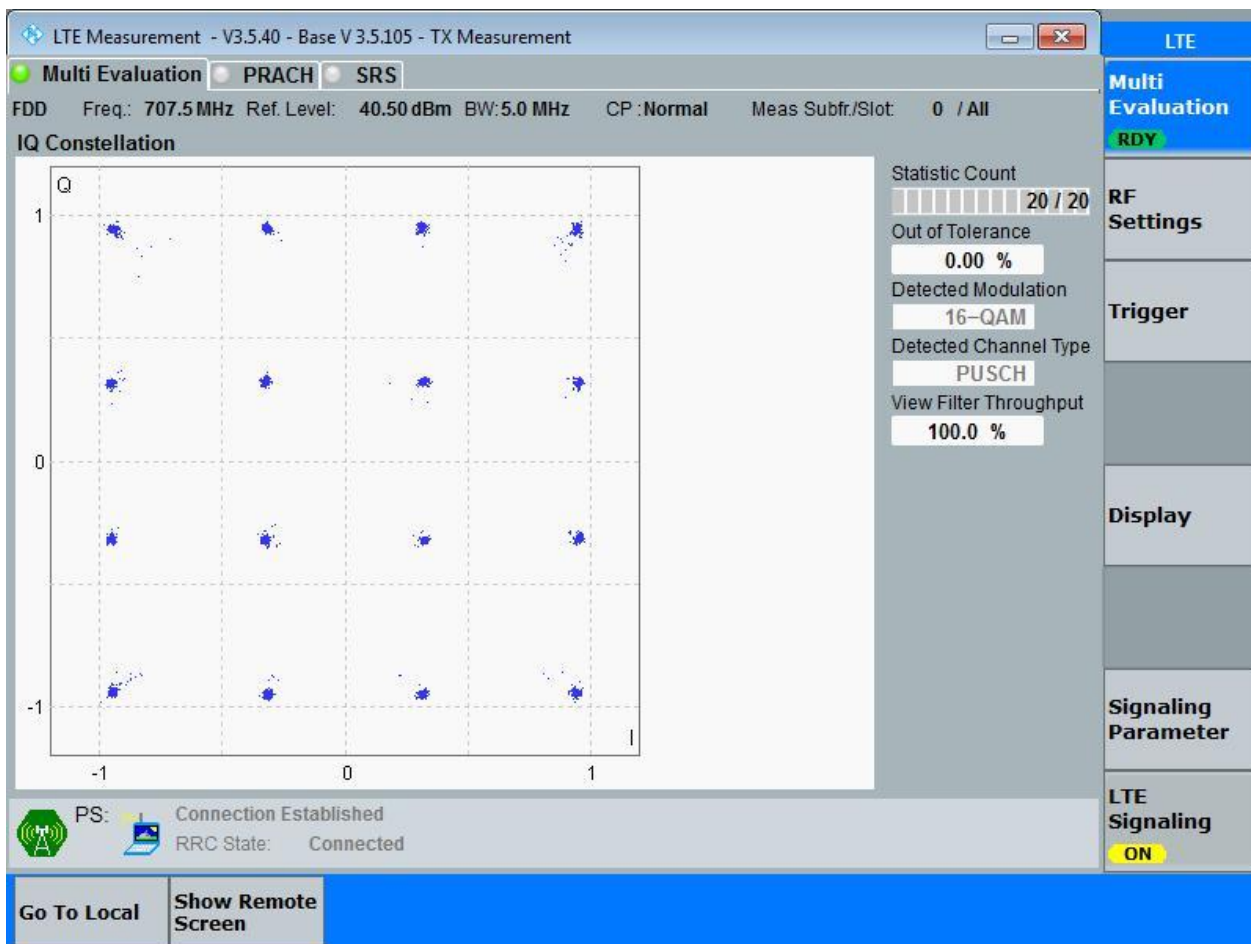
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

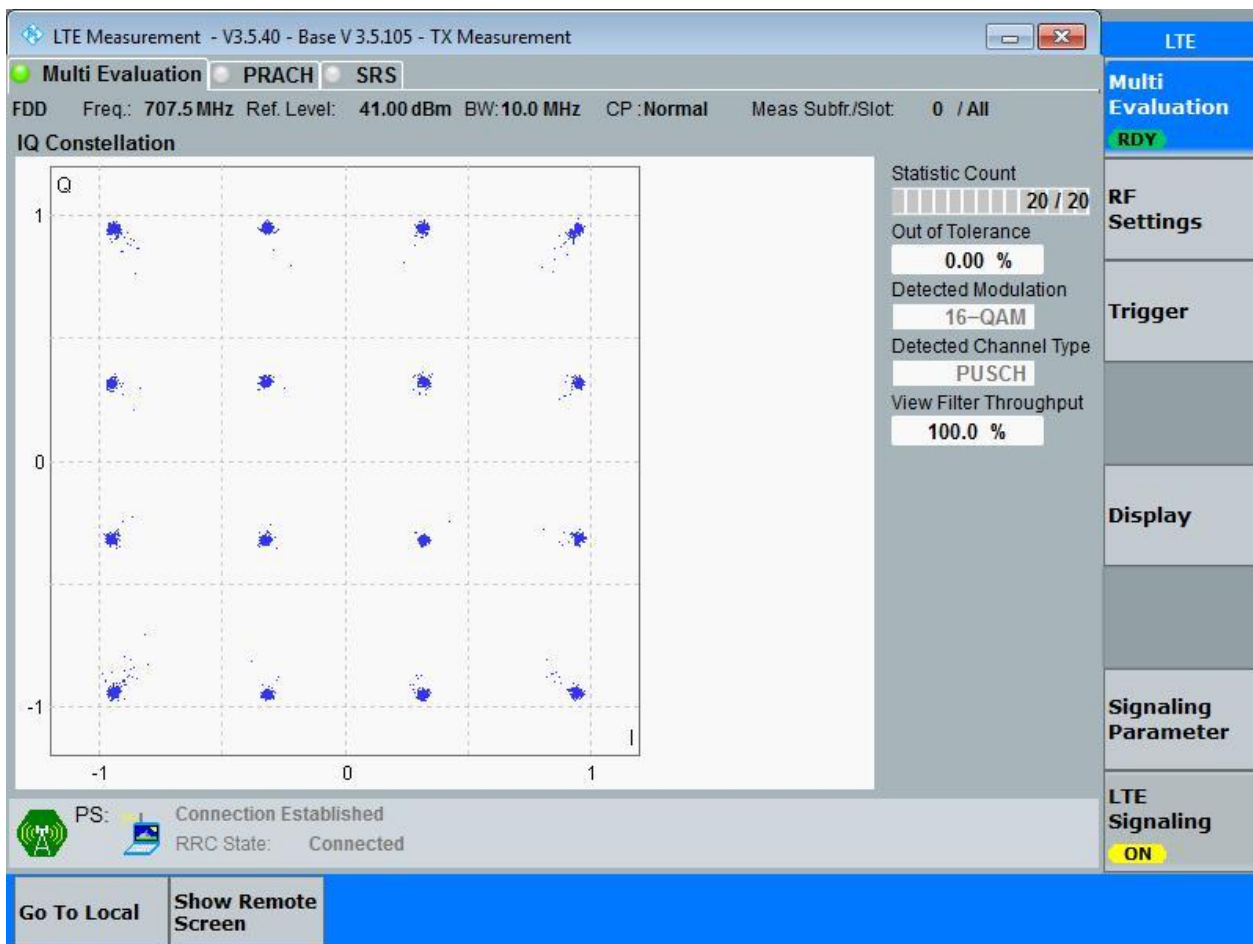
3.1.1.2.3.1.1 Test RB = RB25#0



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



4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND12	LTE/TM1	1.4	LCH	RB6#0	1.09	1.27	Pass
			MCH	RB6#0	1.08	1.26	Pass
			HCH	RB6#0	1.09	1.25	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.93	Pass
			HCH	RB15#0	2.70	2.92	Pass
		5	LCH	RB25#0	4.49	4.87	Pass
			MCH	RB25#0	4.49	4.86	Pass
			HCH	RB25#0	4.49	4.85	Pass
		10	LCH	RB50#0	8.96	9.57	Pass
			MCH	RB50#0	8.96	9.54	Pass
			HCH	RB50#0	8.97	9.57	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.27	Pass
			MCH	RB6#0	1.09	1.26	Pass
			HCH	RB6#0	1.09	1.27	Pass
		3	LCH	RB15#0	2.70	2.92	Pass
			MCH	RB15#0	2.71	2.95	Pass
			HCH	RB15#0	2.70	2.94	Pass
		5	LCH	RB25#0	4.50	4.85	Pass
			MCH	RB25#0	4.49	4.82	Pass
			HCH	RB25#0	4.49	4.84	Pass
		10	LCH	RB50#0	8.95	9.55	Pass
			MCH	RB50#0	8.98	9.54	Pass
			HCH	RB50#0	8.95	9.55	Pass



Part II - Test Plots

4.1 For LTE

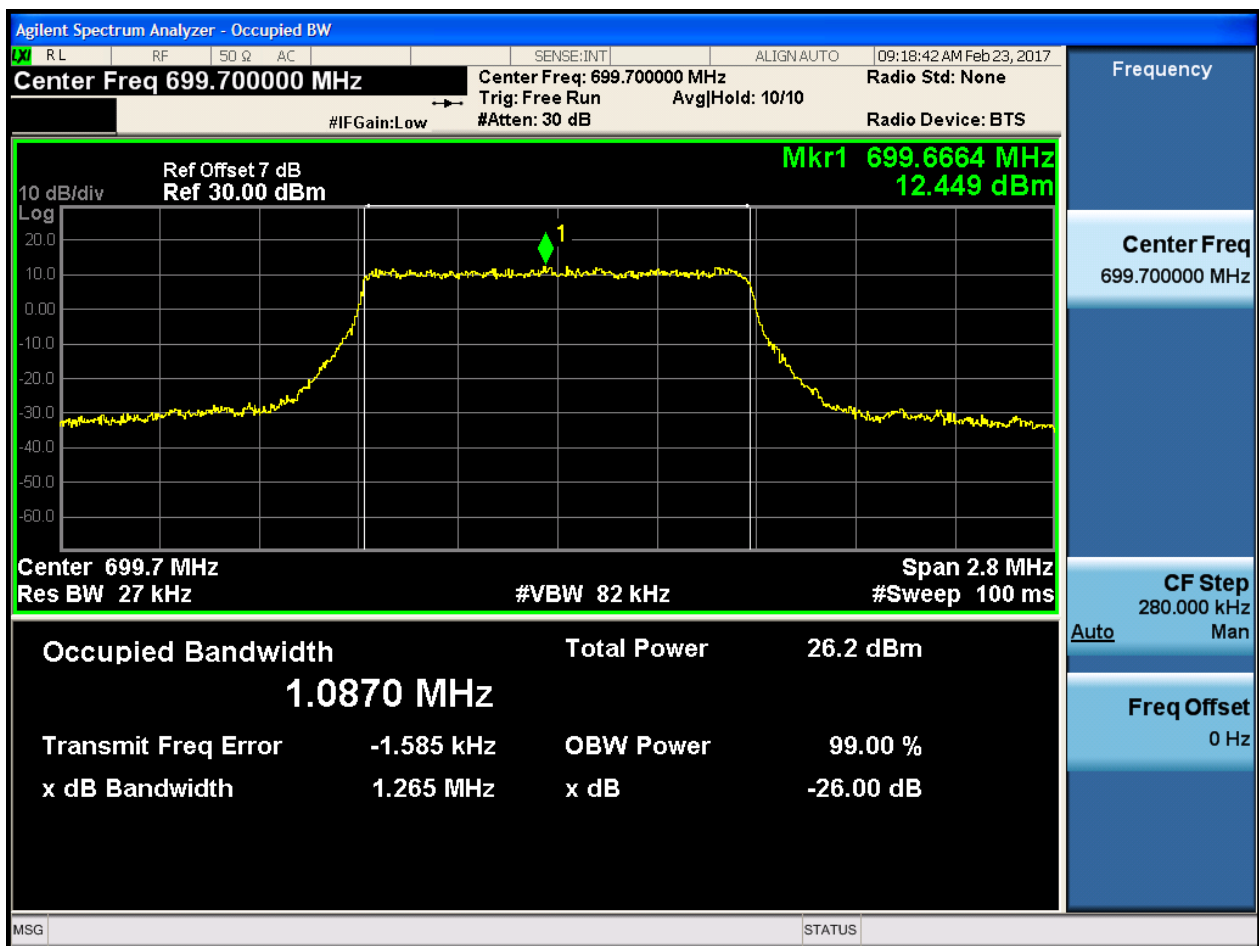
4.1.1 Test Band = BAND12

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

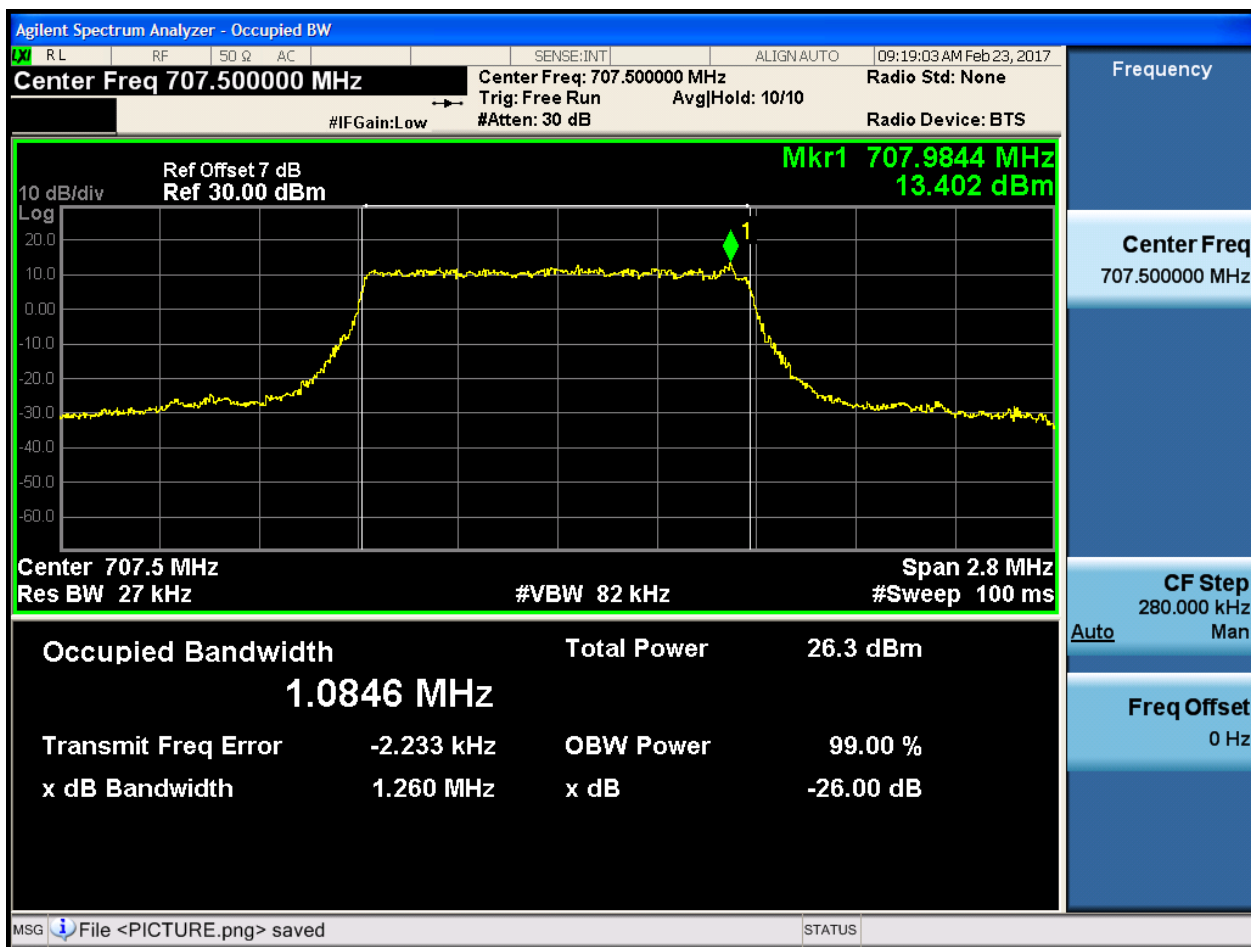
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB6#0



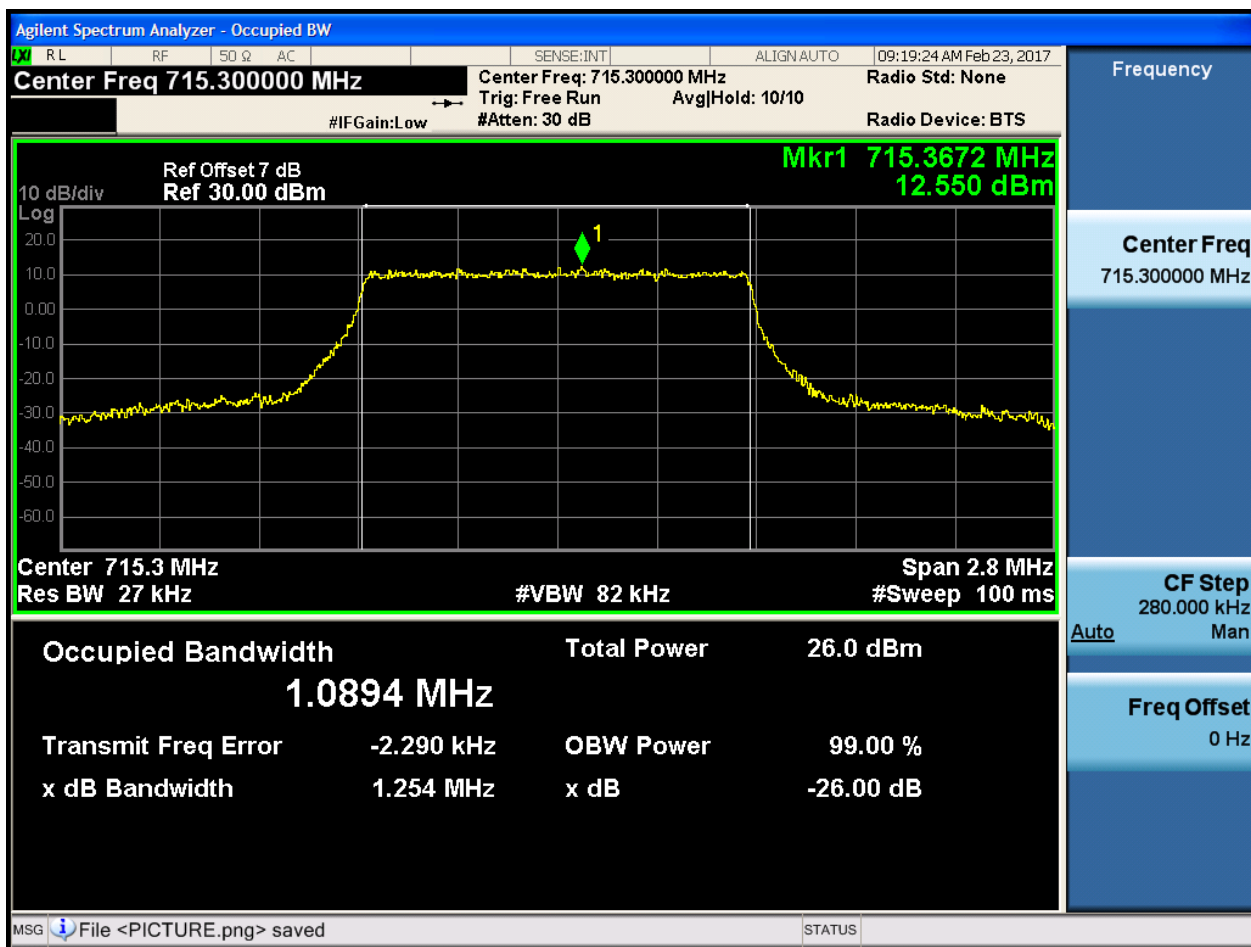
4.1.1.1.1.2 Test Channel = MCH

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

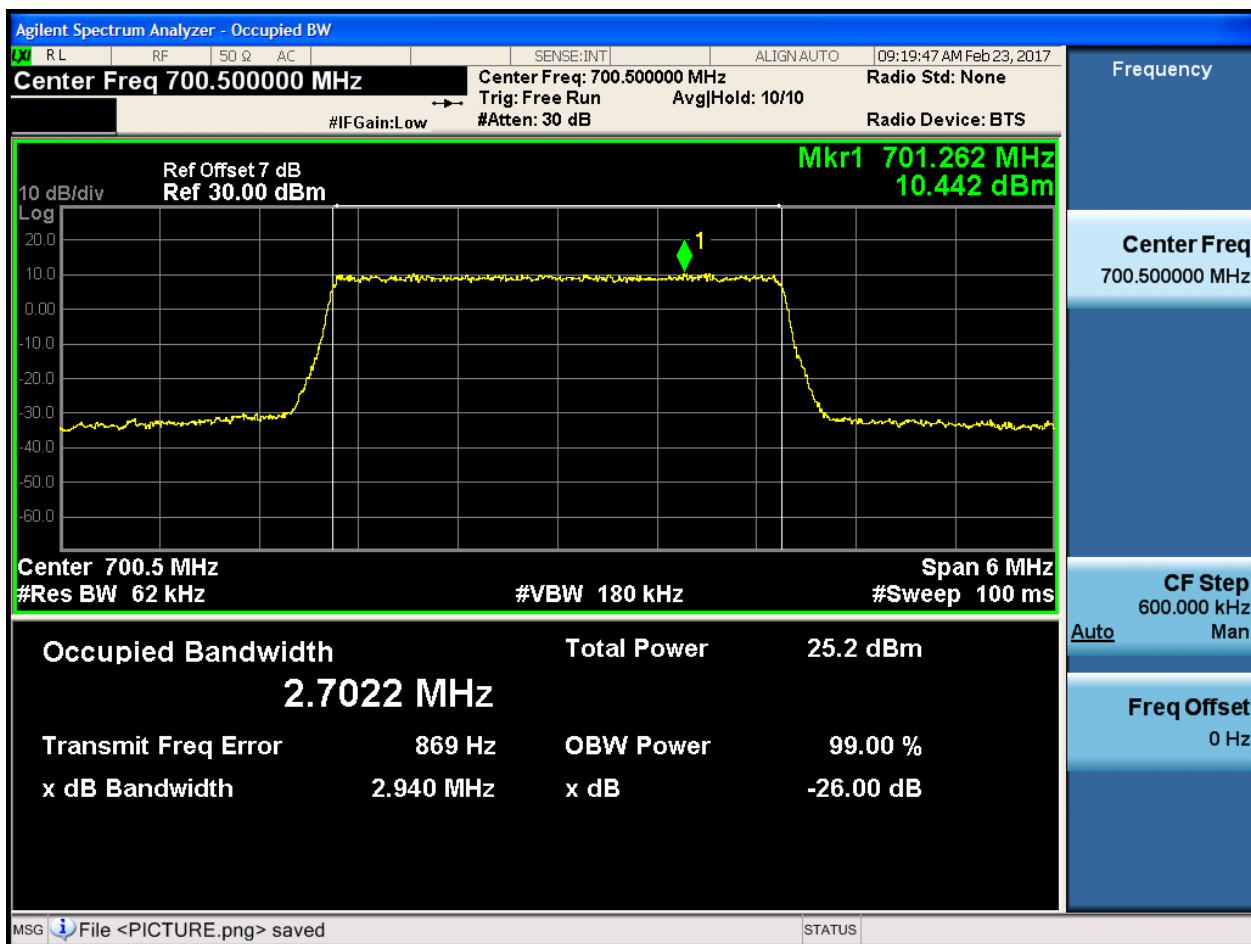




4.1.1.1.2 Test Bandwidth = 3

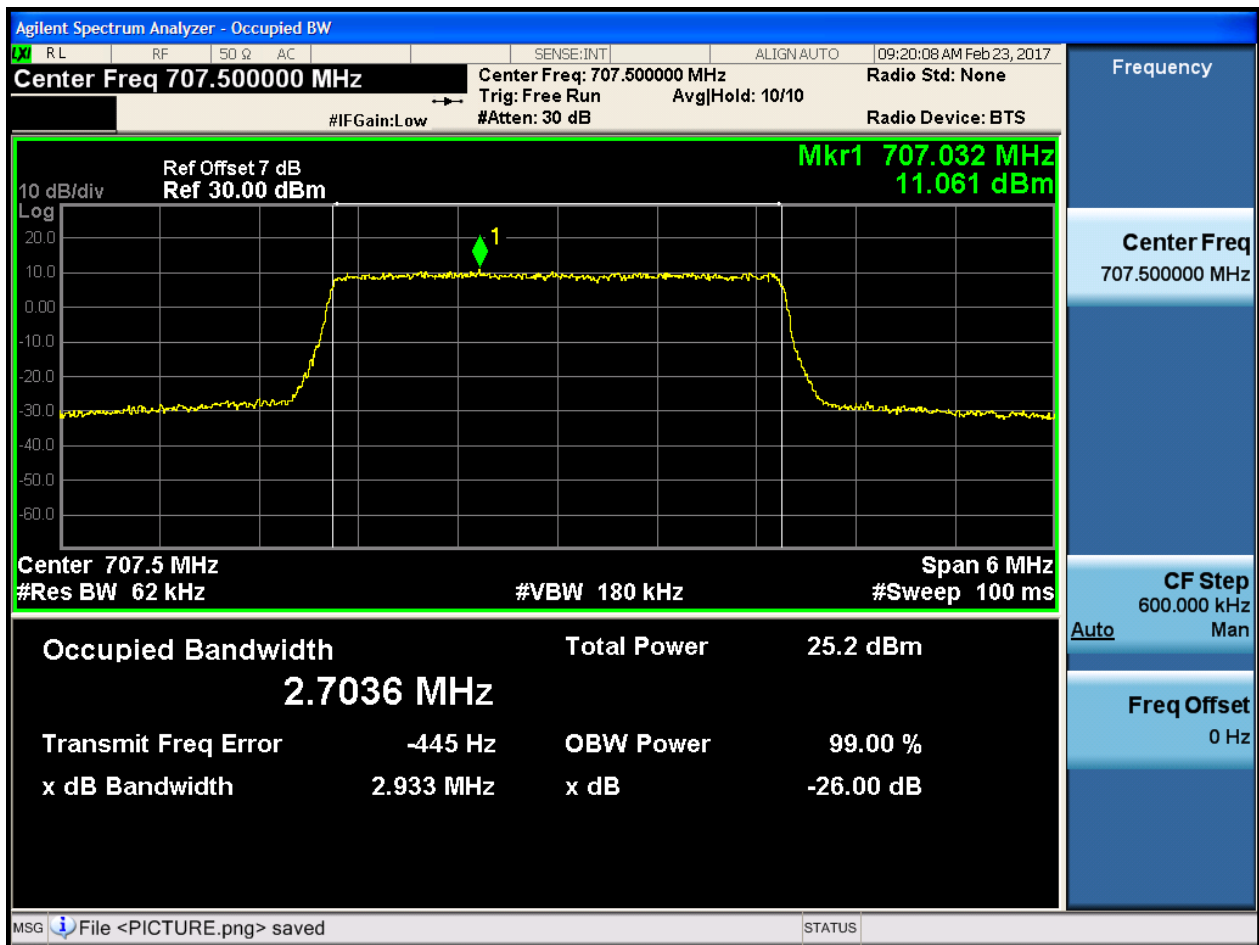
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



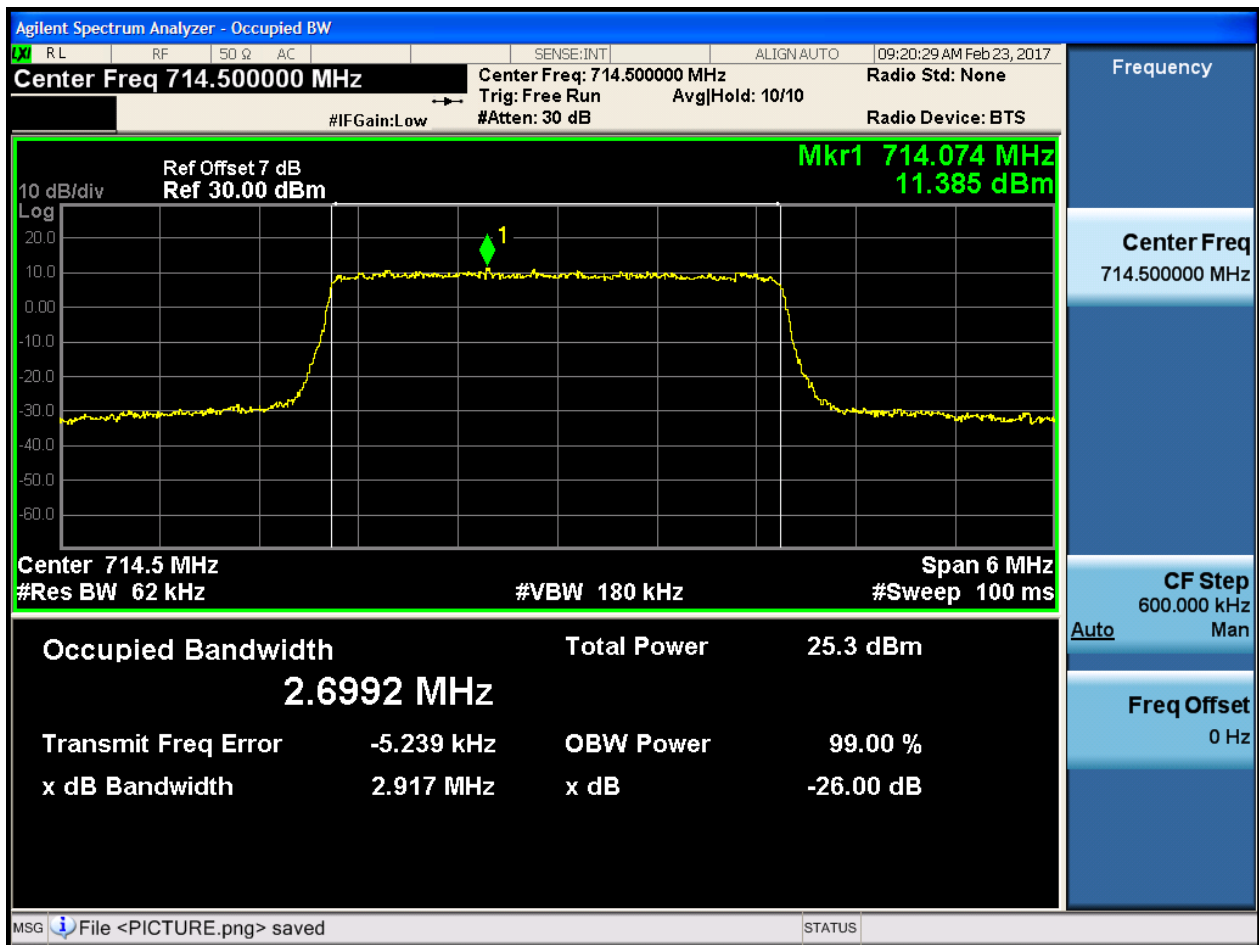
4.1.1.1.2.2 Test Channel = MCH

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

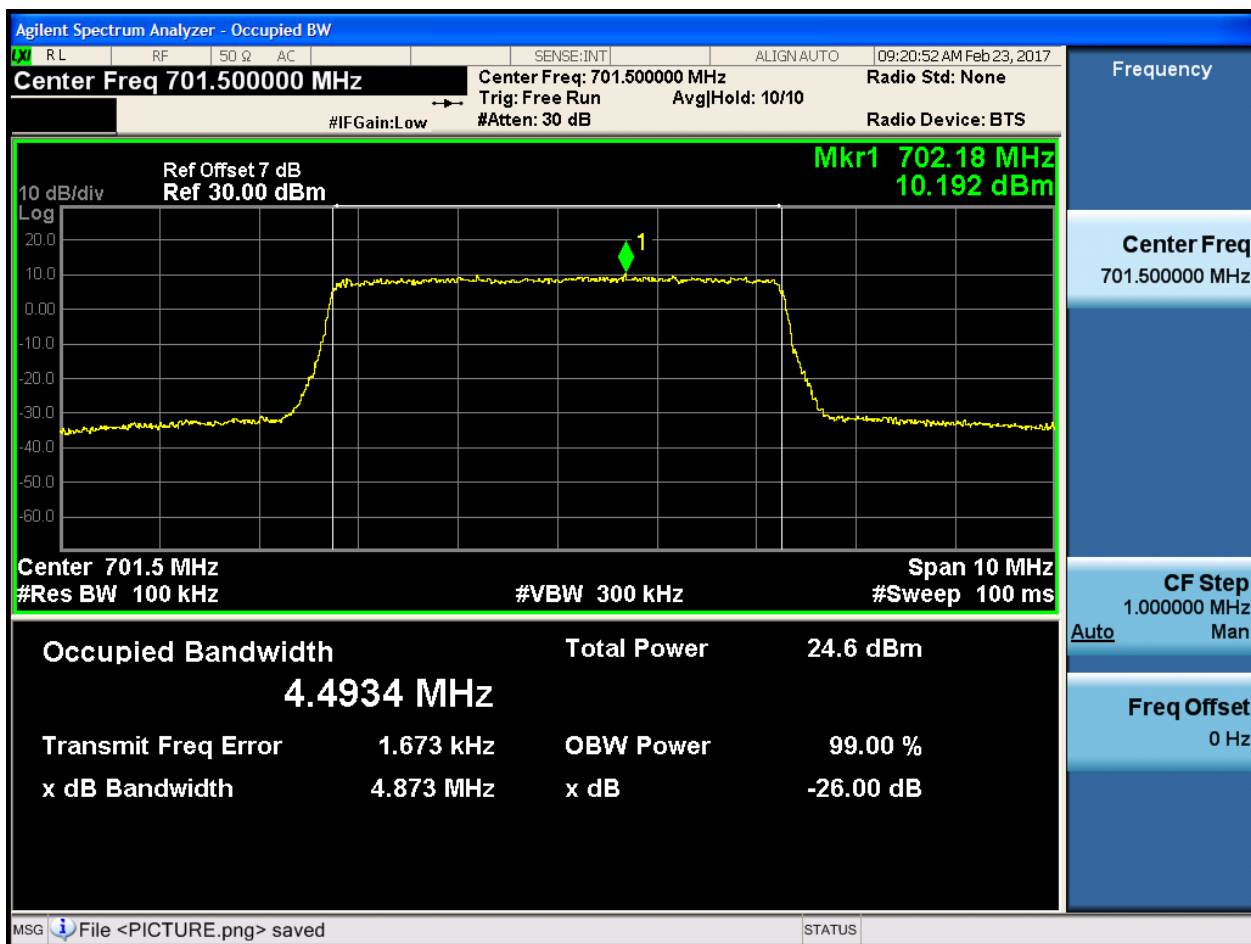




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

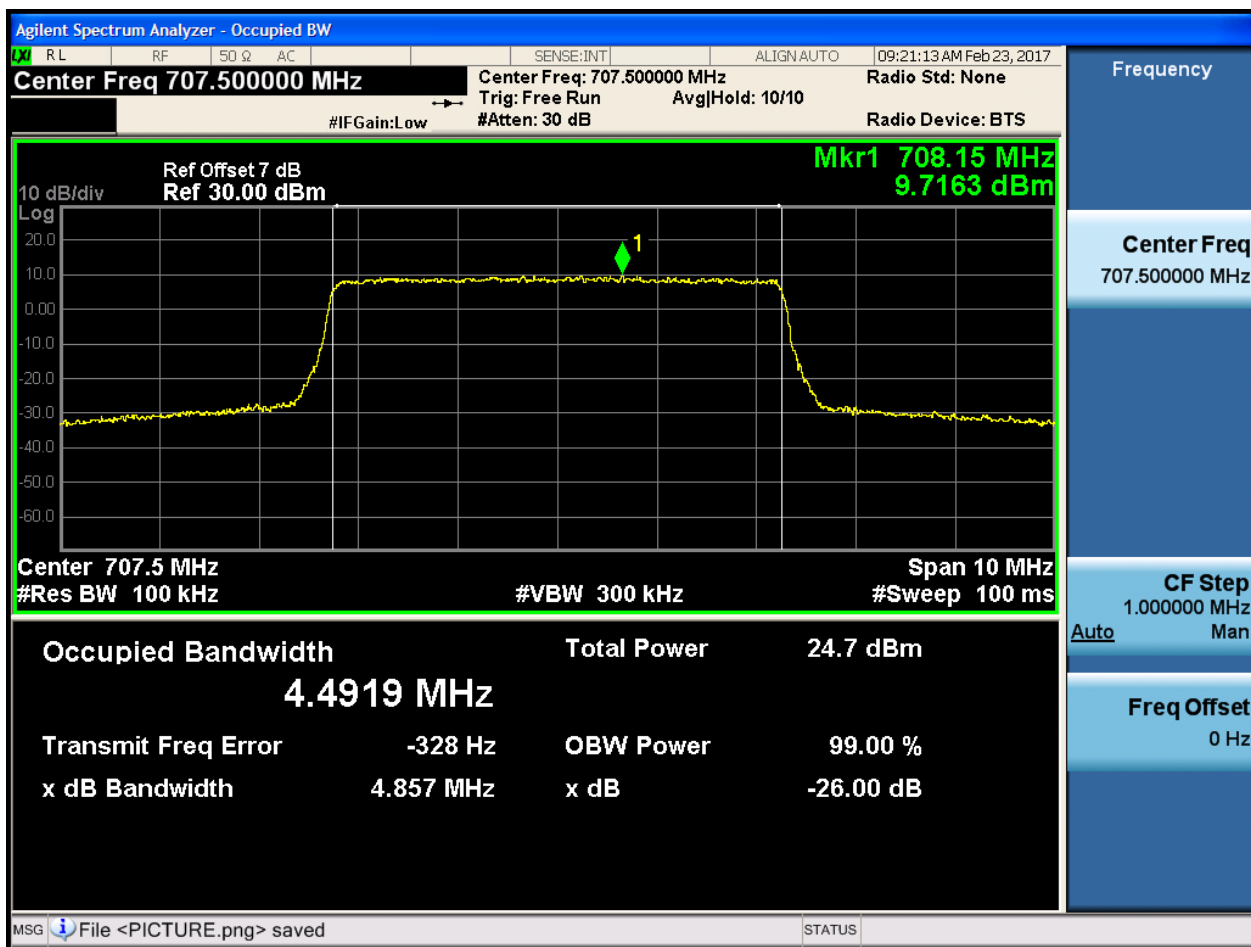
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

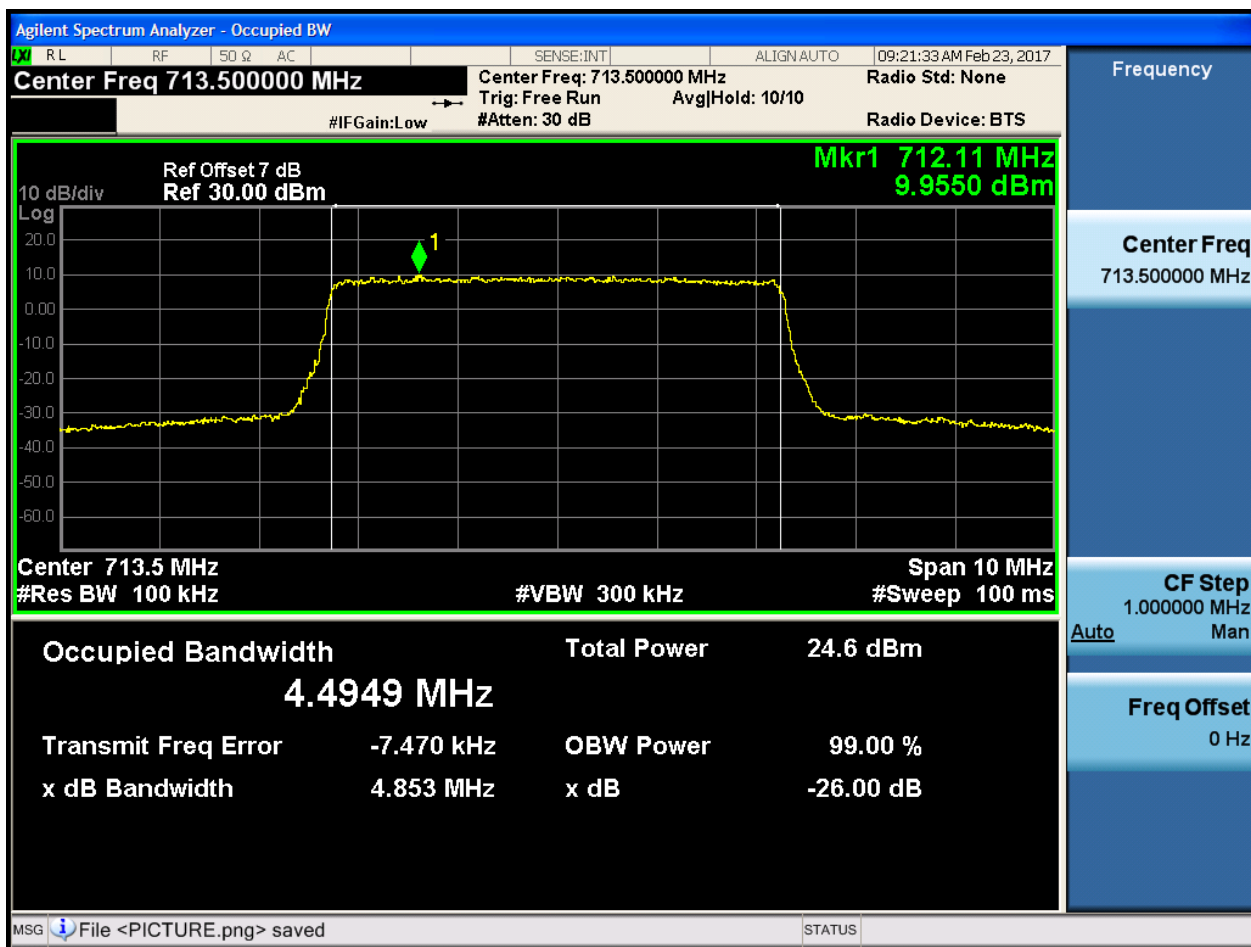
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

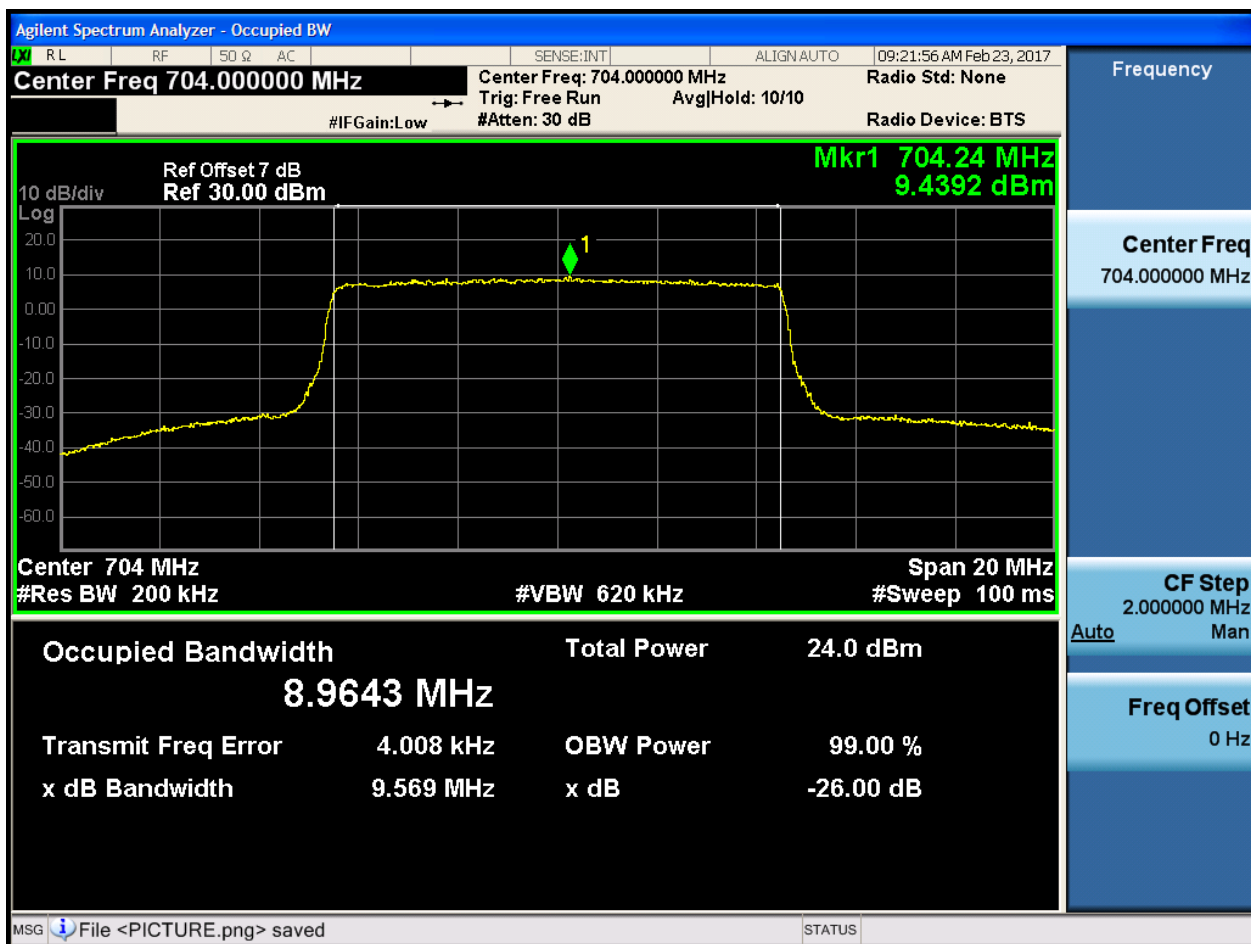




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

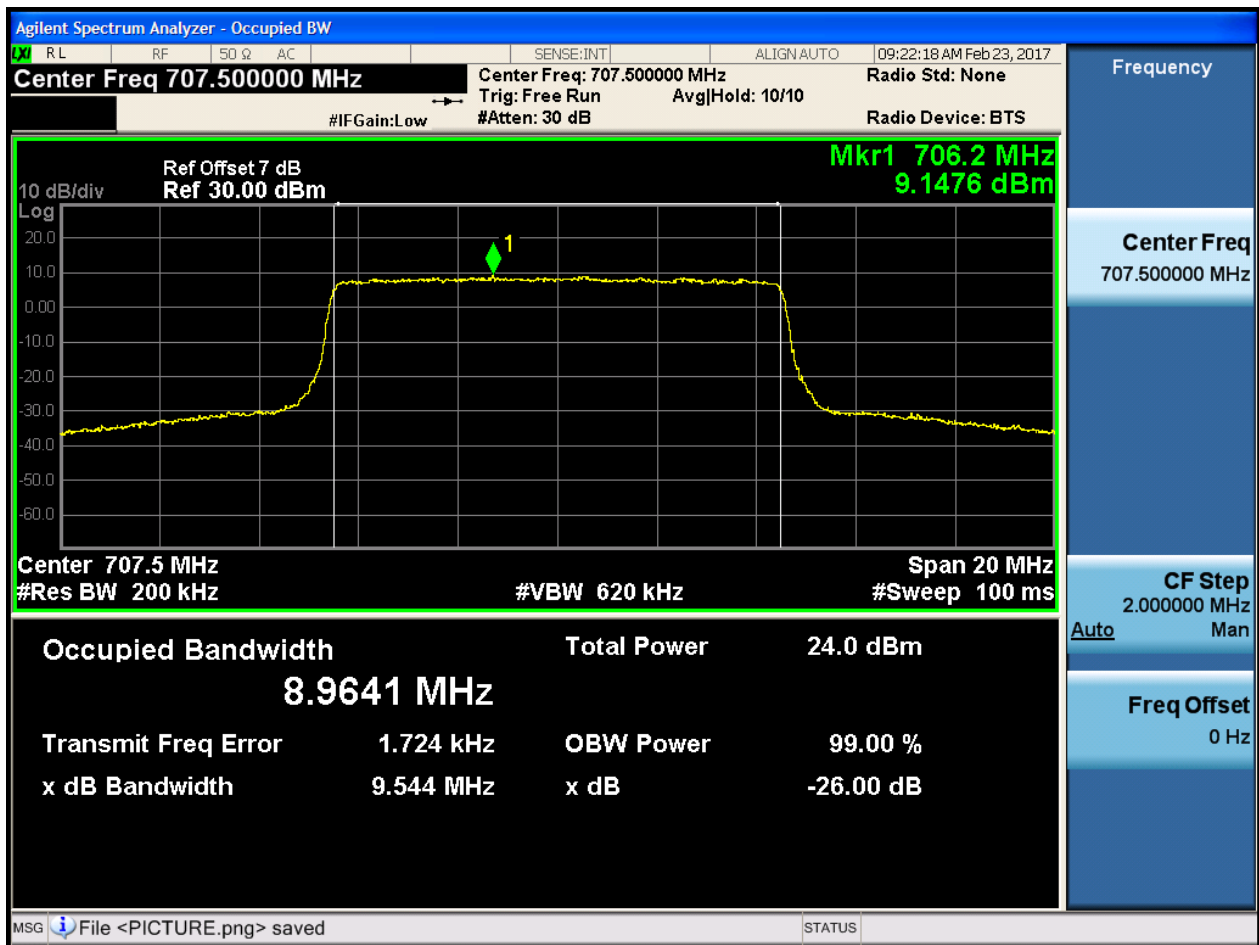
4.1.1.1.4.1.1 Test RB = RB50#0





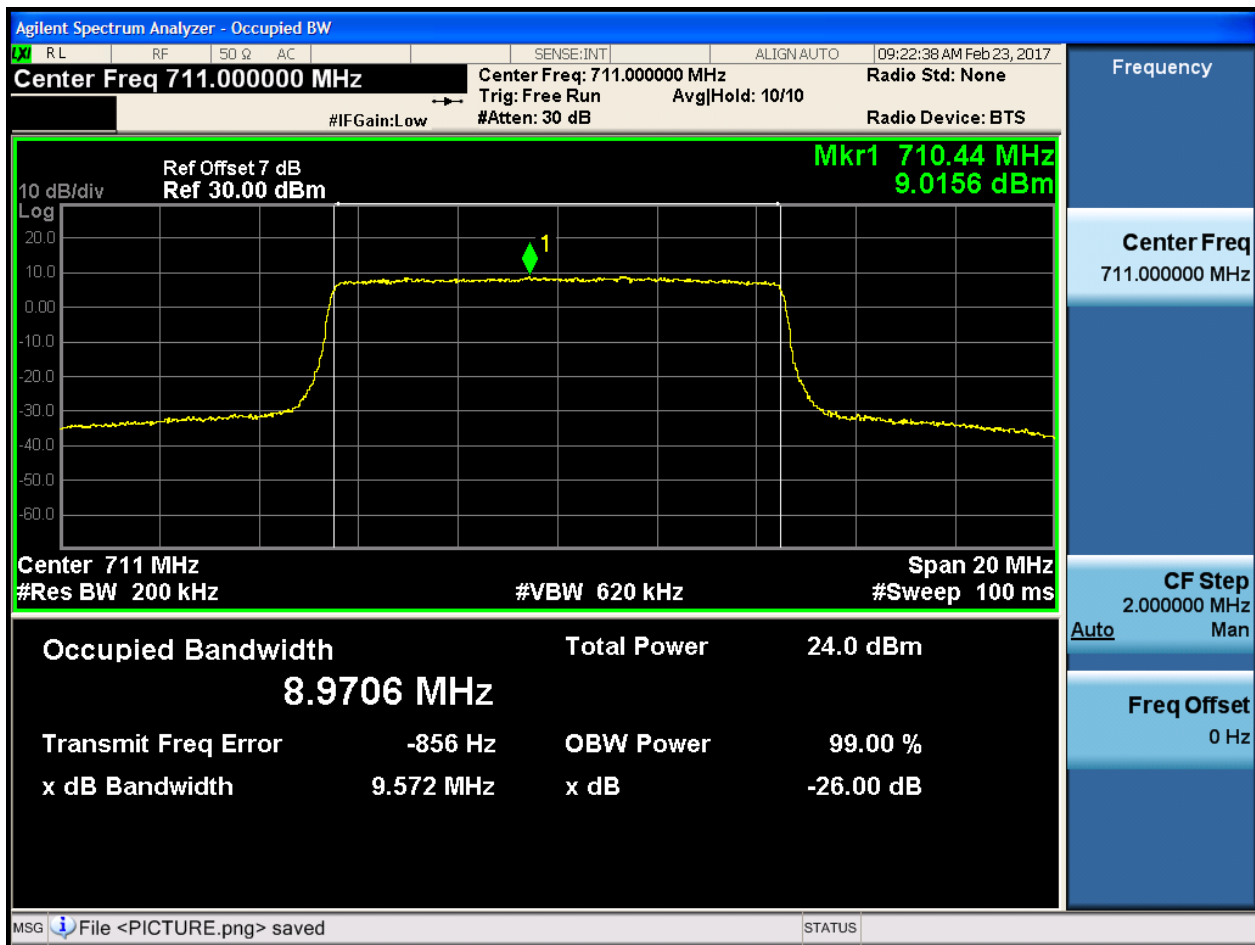
4.1.1.1.4.2 Test Channel = MCH

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

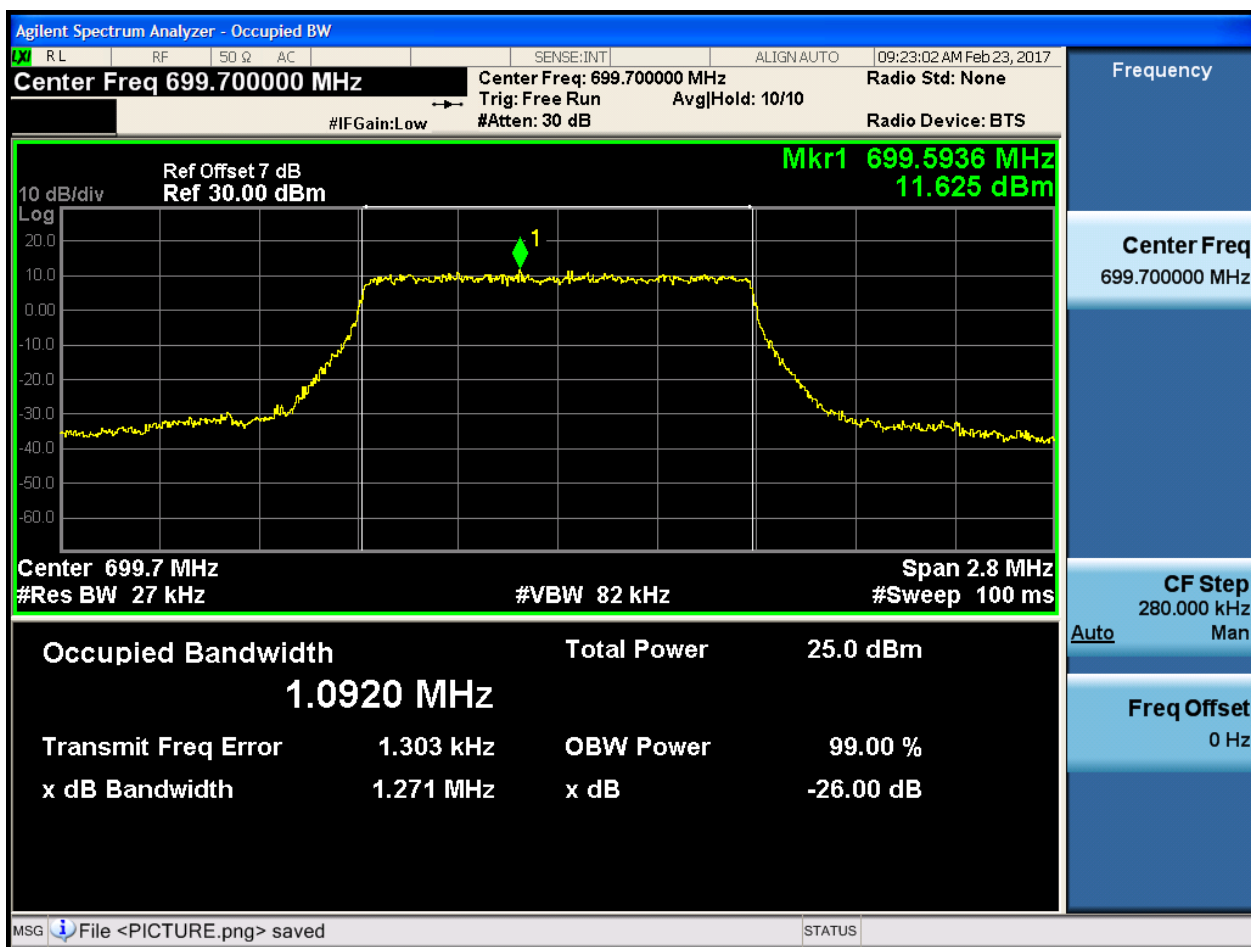


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

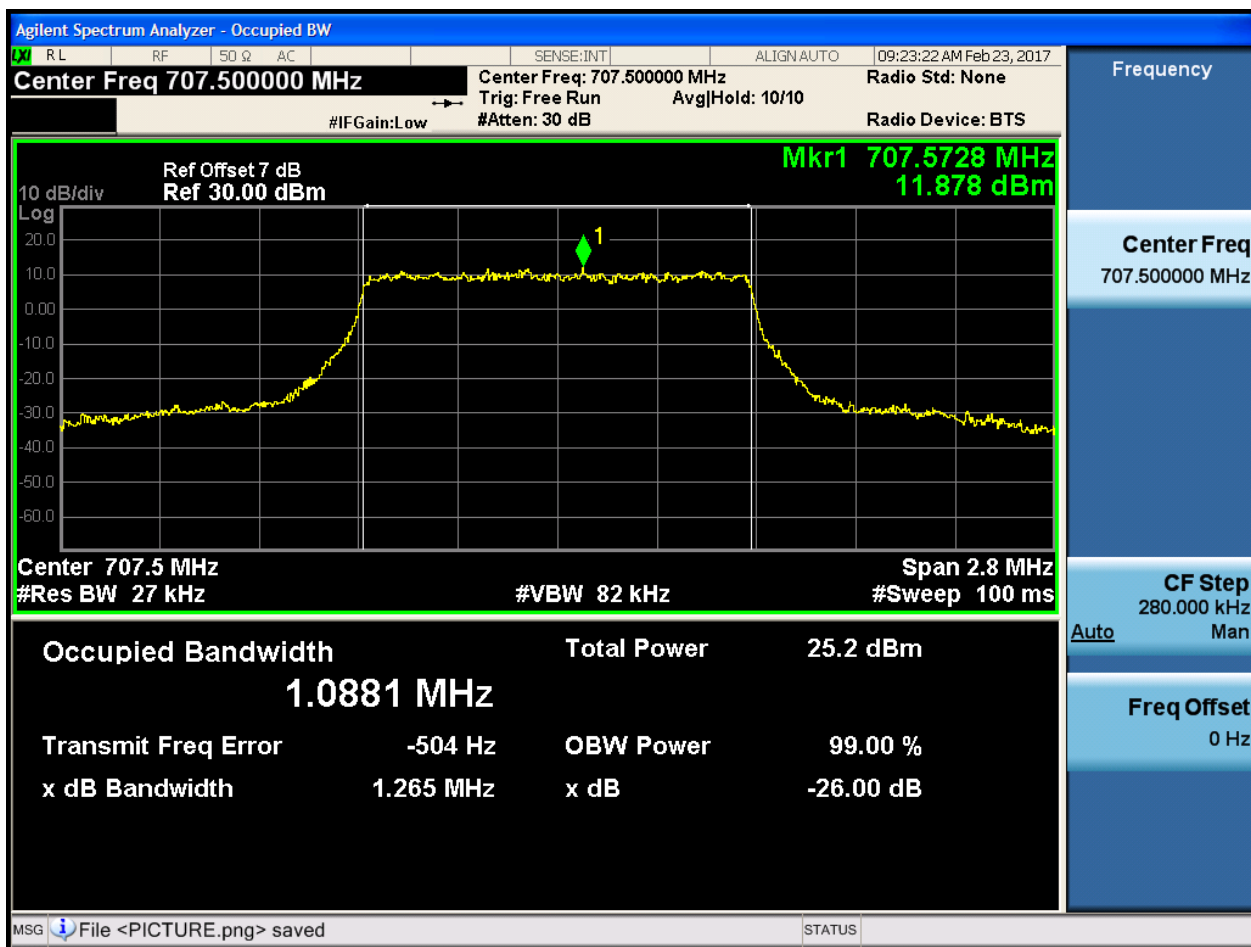
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

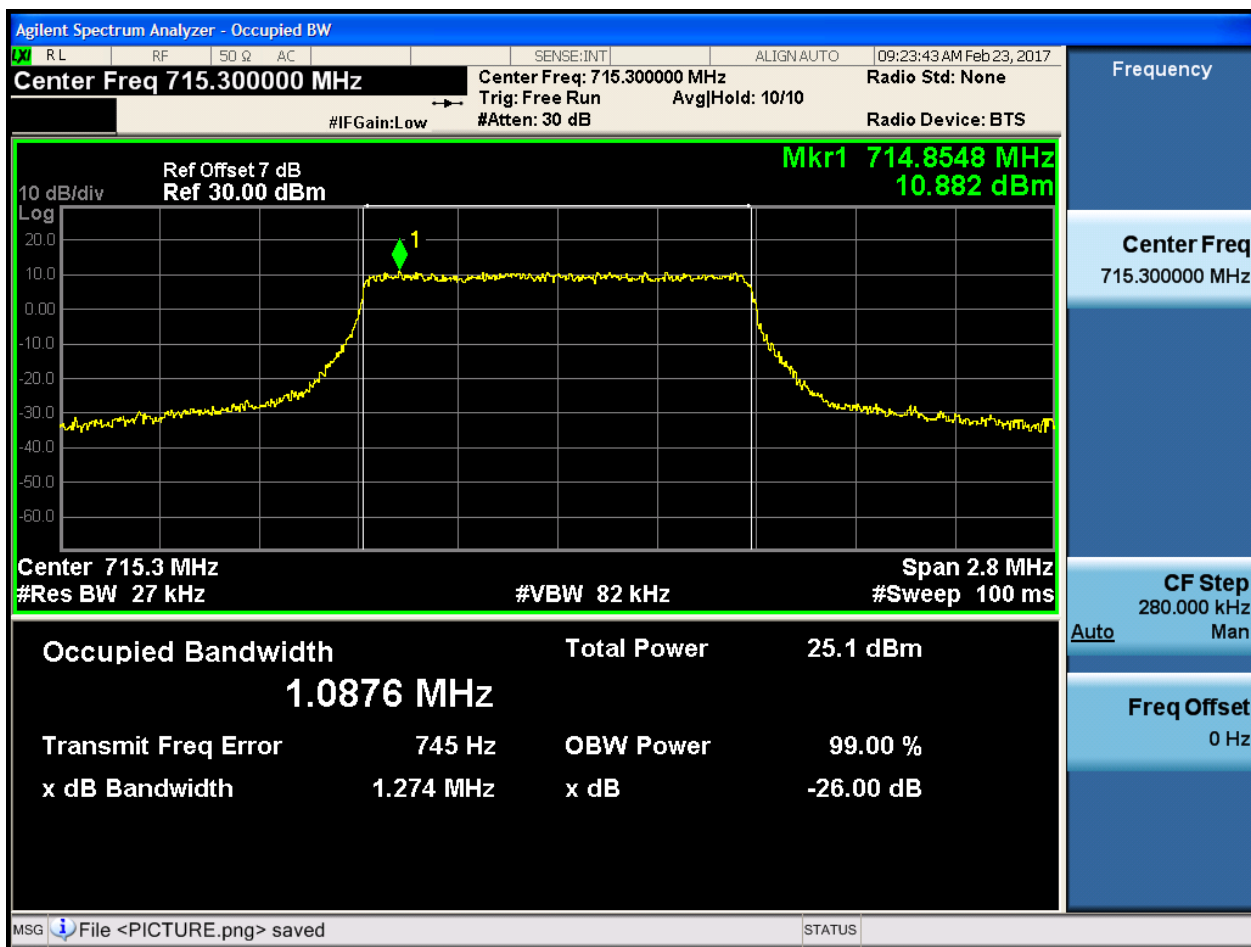
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

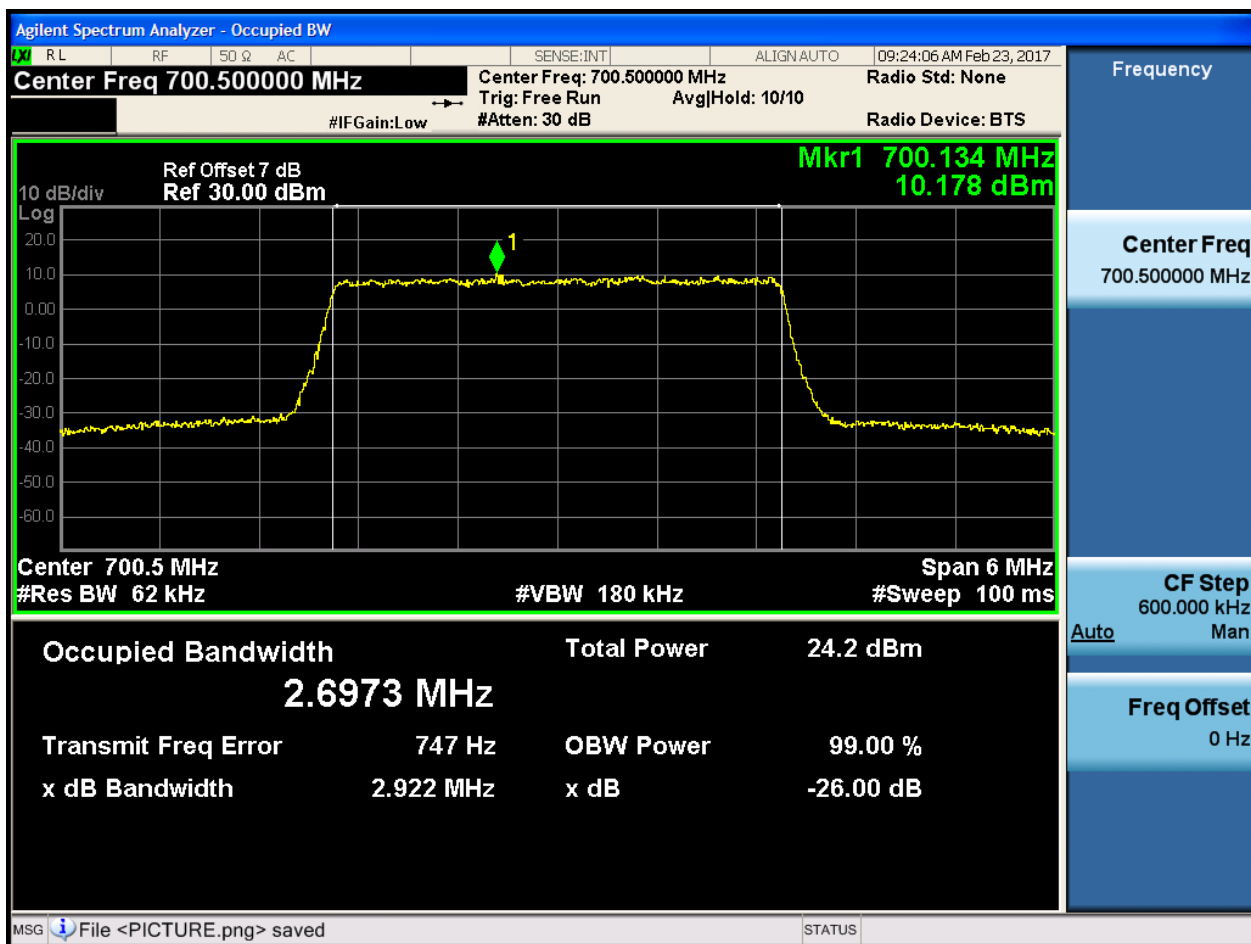




4.1.1.2.2 Test Bandwidth = 3

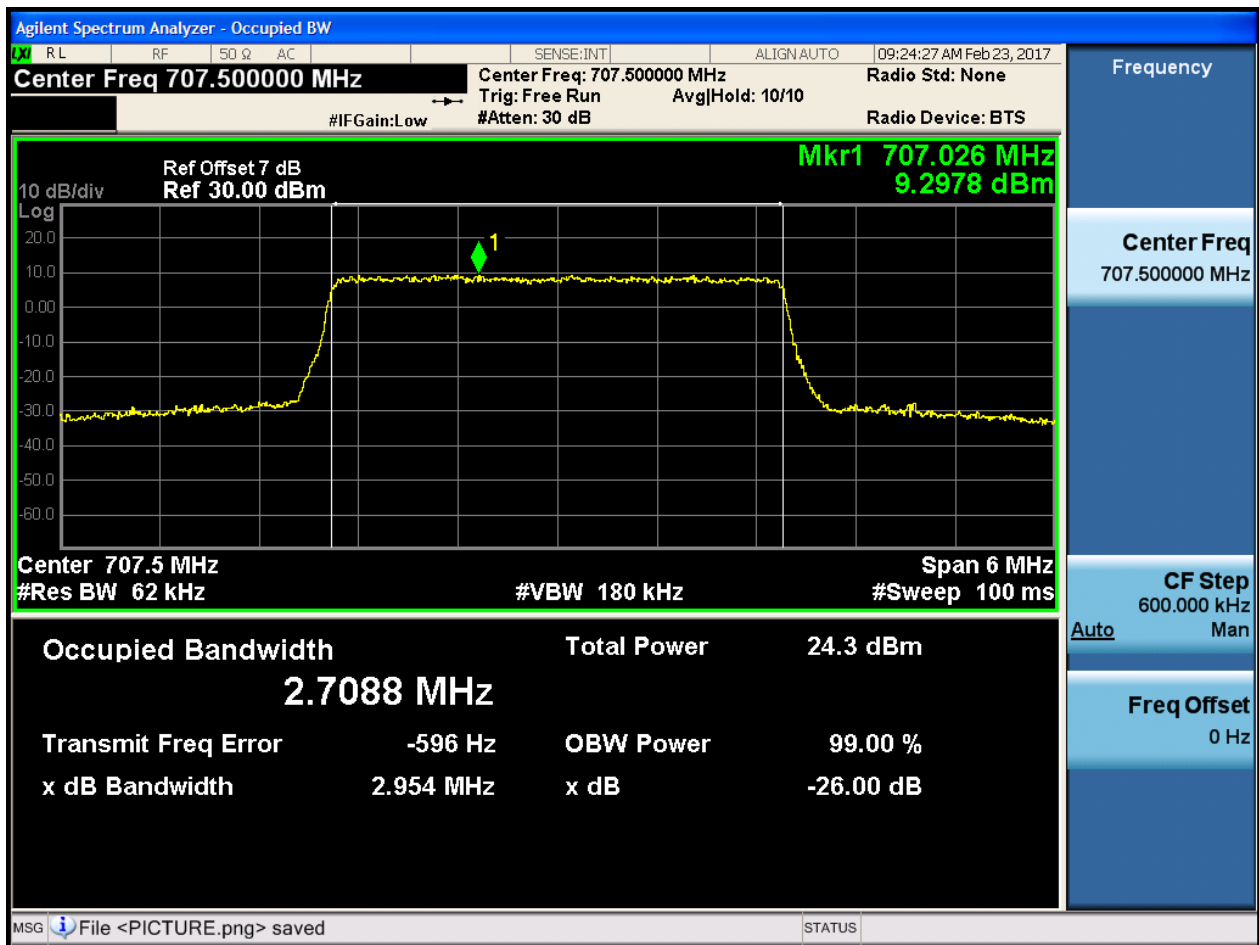
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



4.1.1.2.2.2 Test Channel = MCH

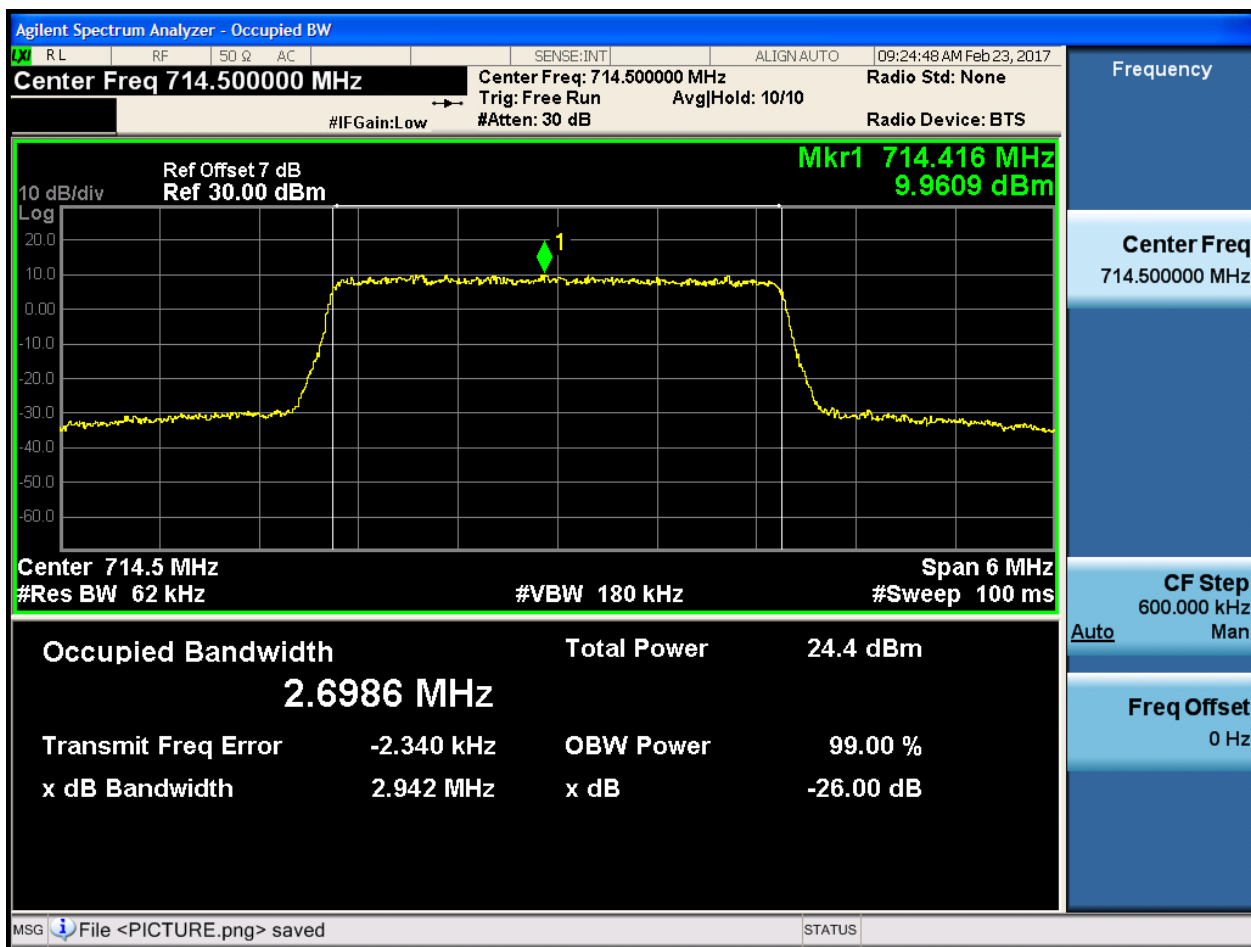
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

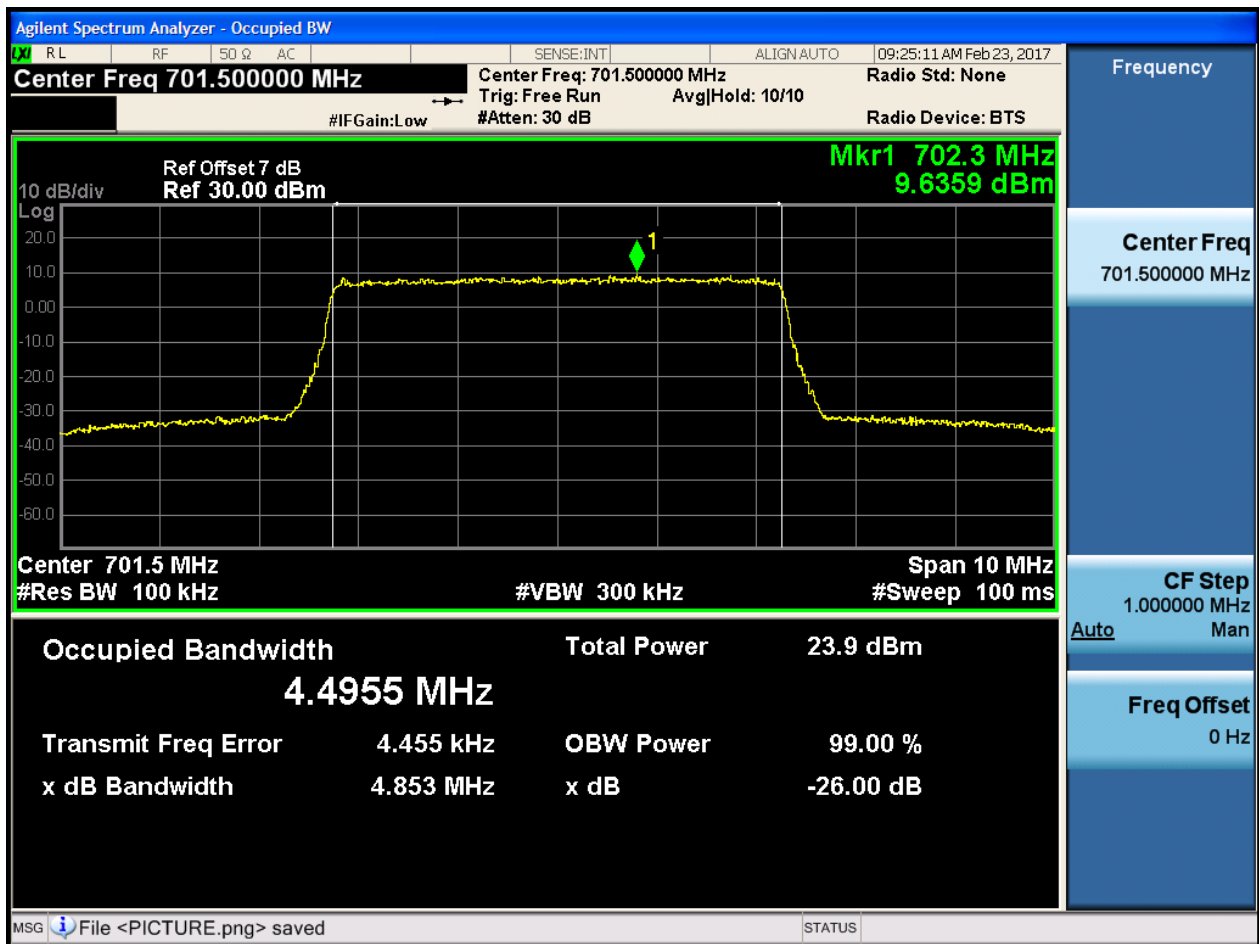
4.1.1.2.2.3.1 Test RB = RB15#0



4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

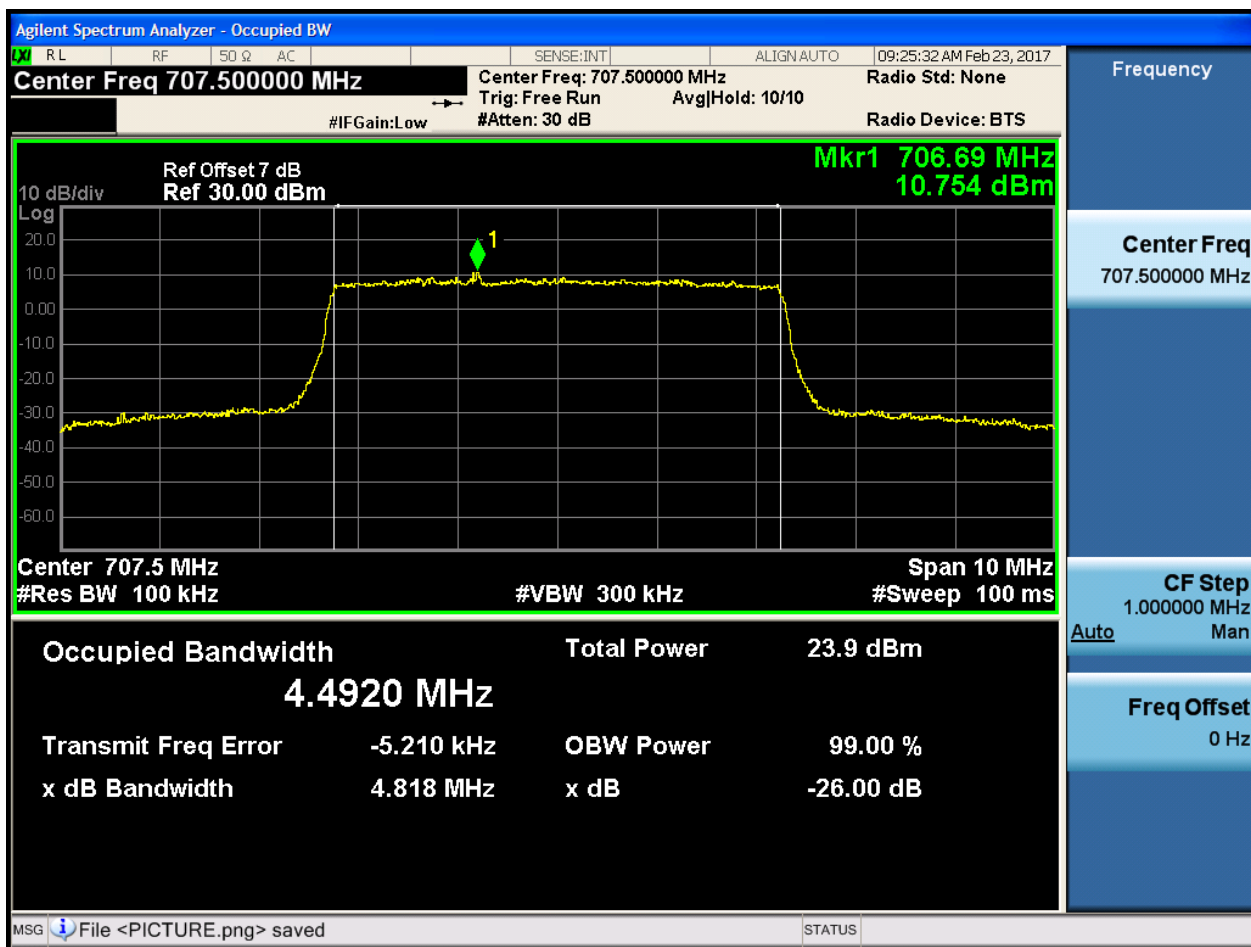
4.1.1.2.3.1.1 Test RB = RB25#0





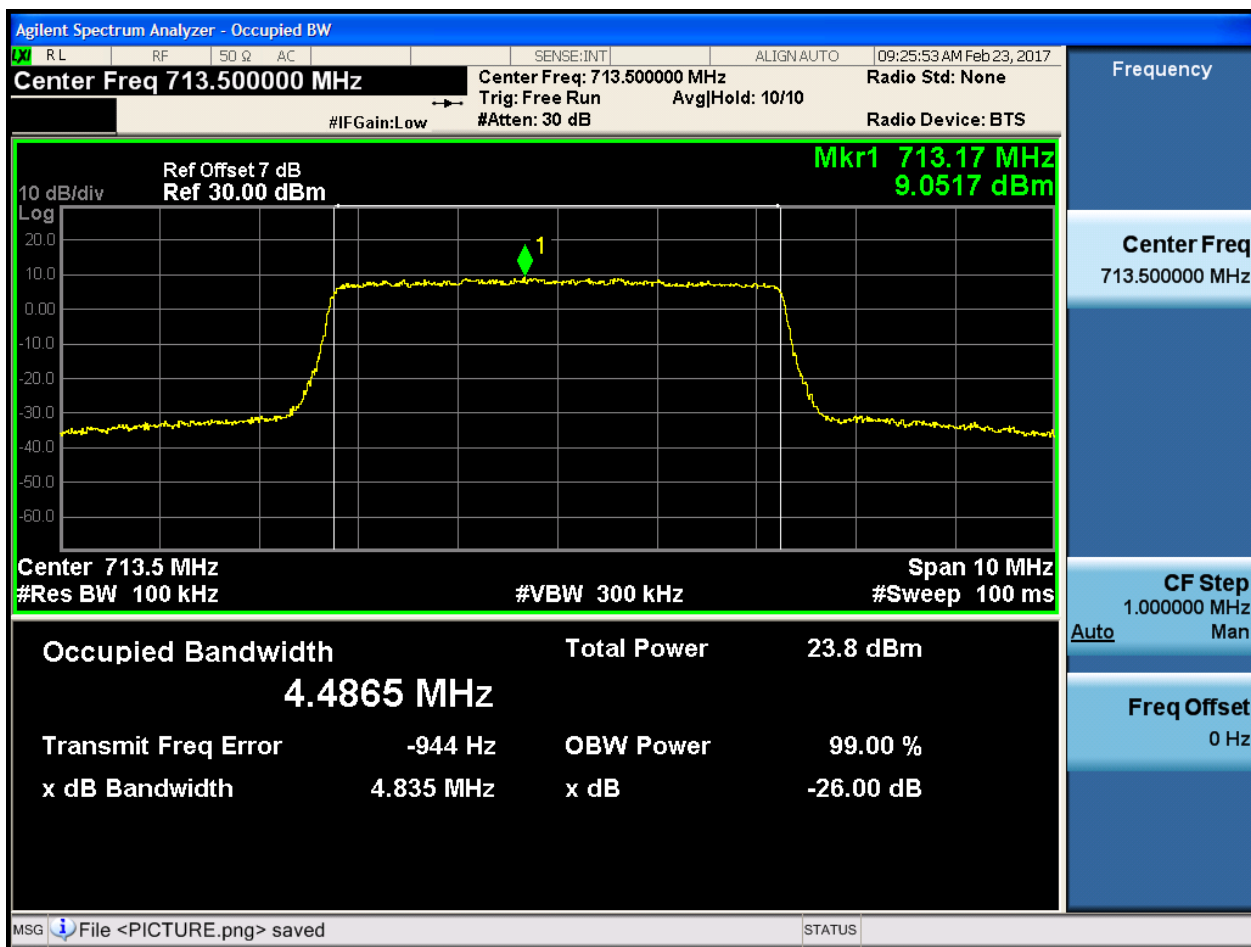
4.1.1.2.3.2 Test Channel = MCH

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

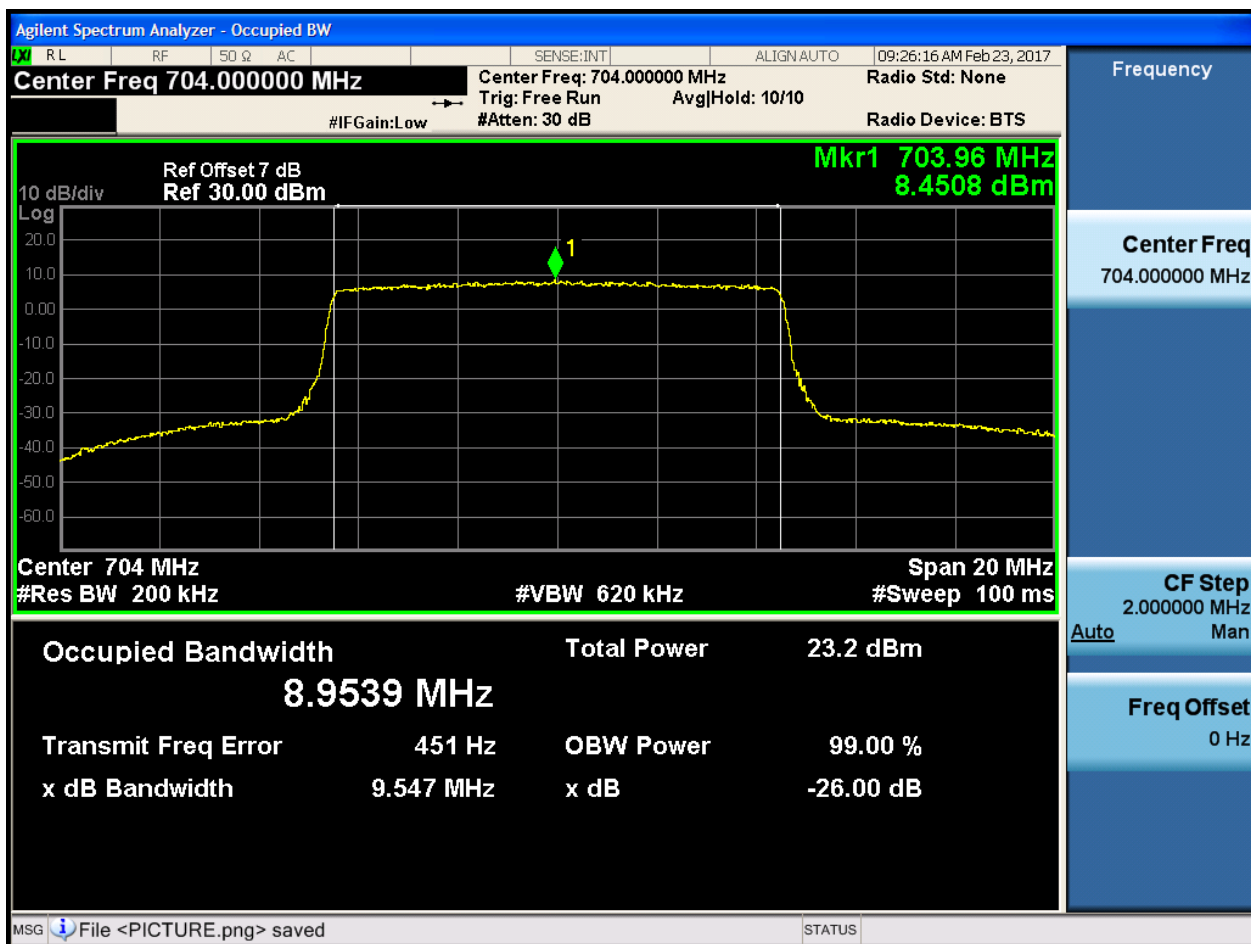




4.1.1.2.4 Test Bandwidth = 10

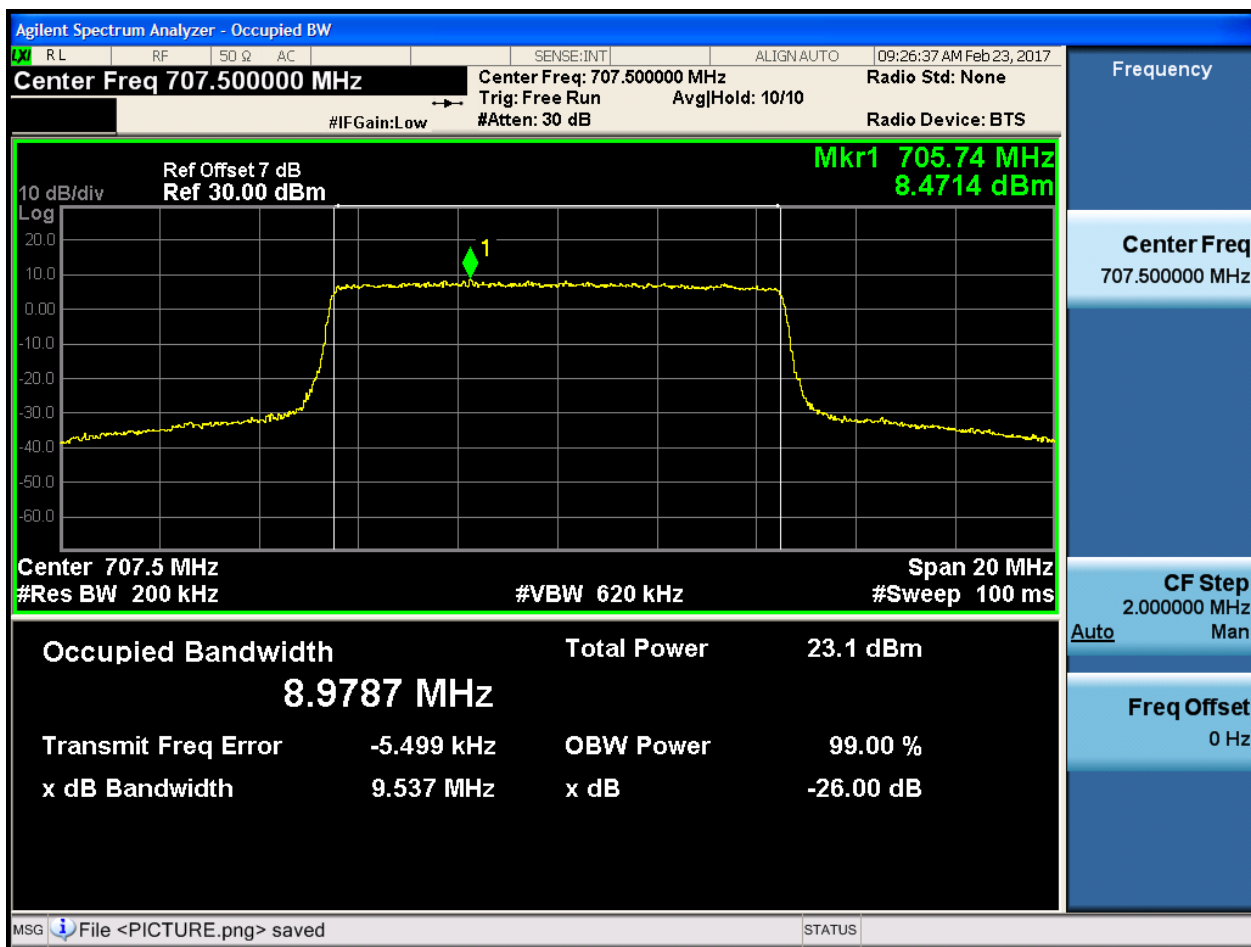
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0



4.1.1.2.4.2 Test Channel = MCH

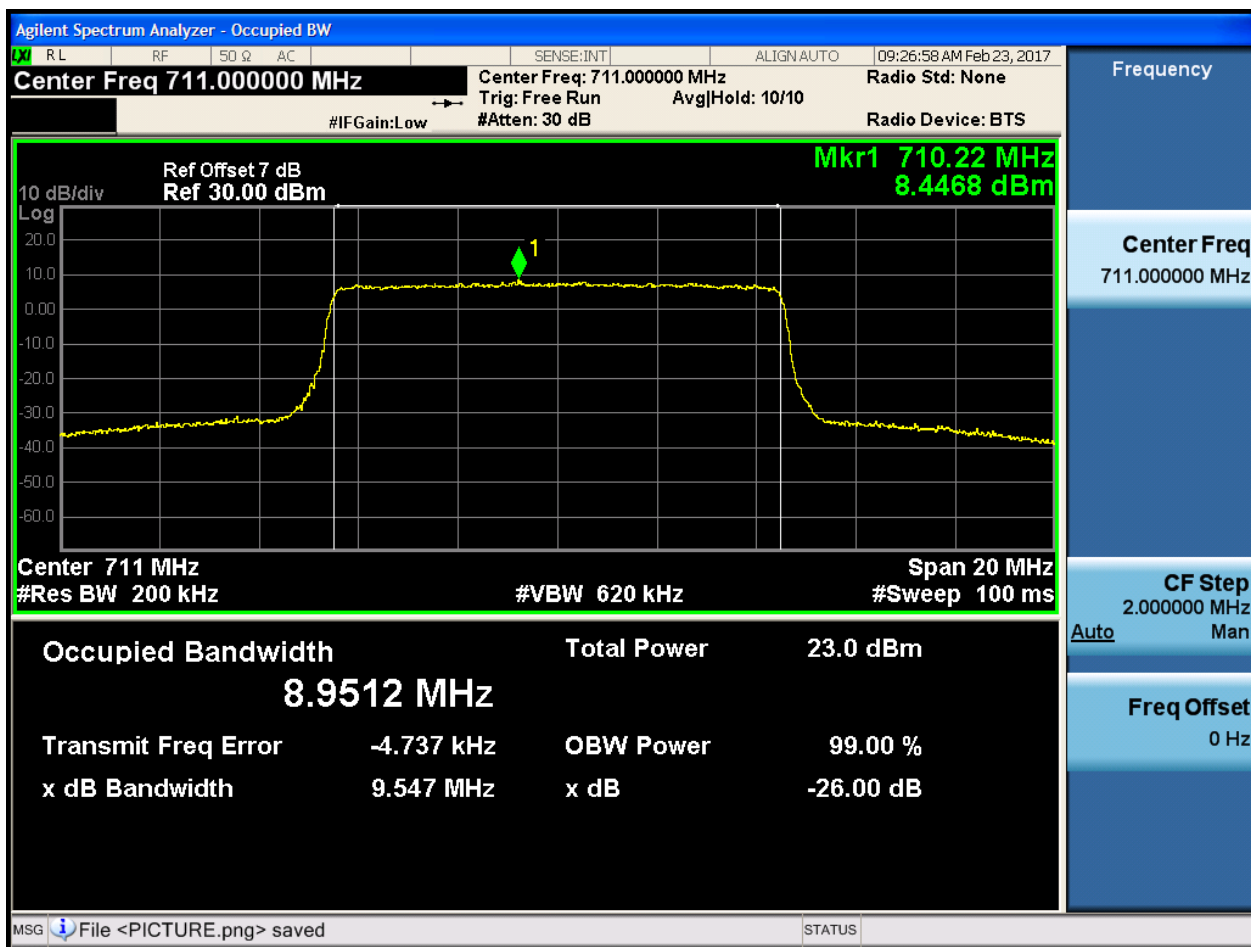
4.1.1.2.4.2.1 Test RB = RB50#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

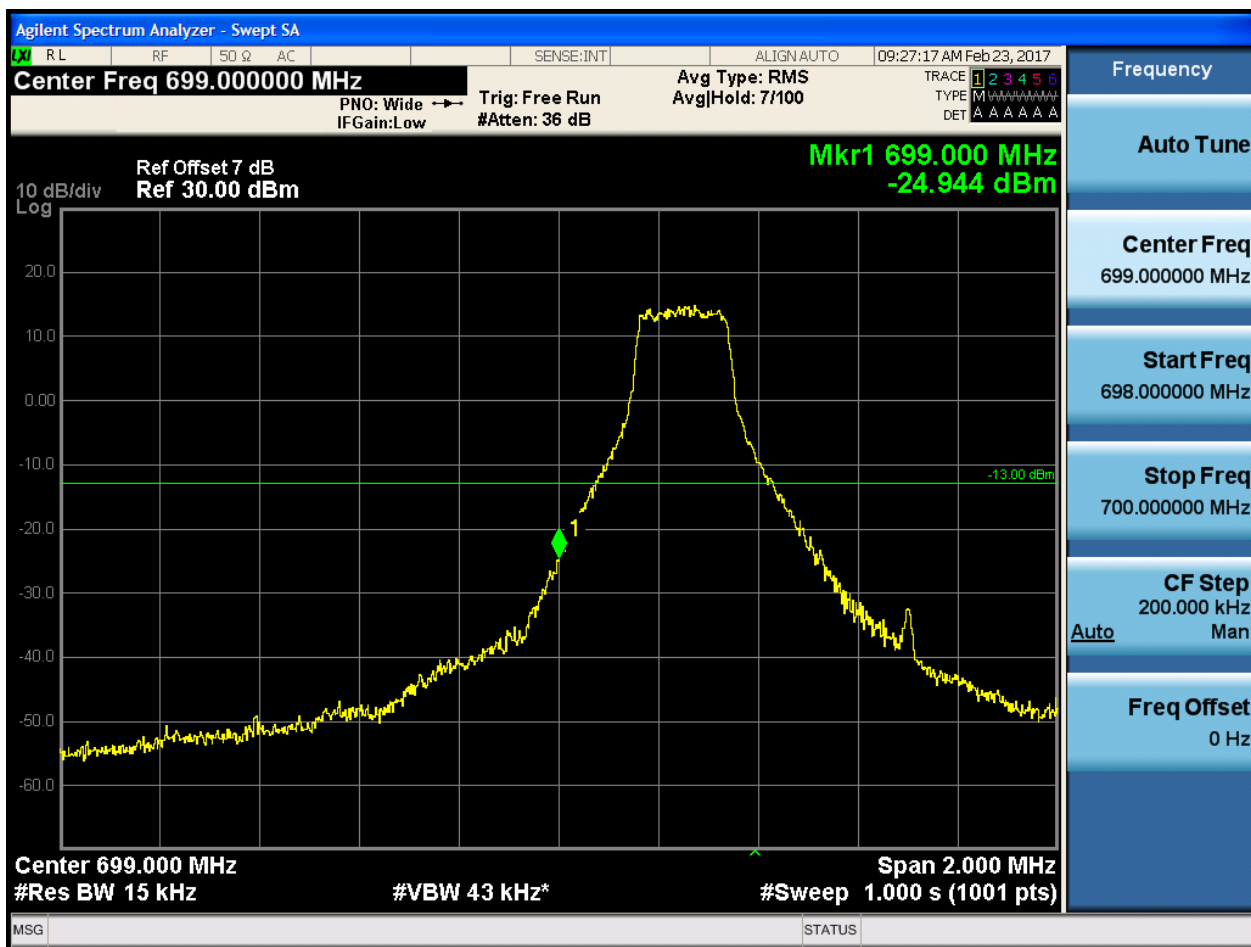
5.1.1 Test Band = BAND12

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 09:27:44 AM Feb 23, 2017

Center Freq 699.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#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 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-35.071 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-29.385 dBm

Center 699.000 MHz
#Res BW 15 kHz

#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

MSG STATUS



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:28:30 AM Feb 23, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#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 A

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-24.602 dBm

Center 716.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.1.2.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-26.695 dBm

Center 716.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto

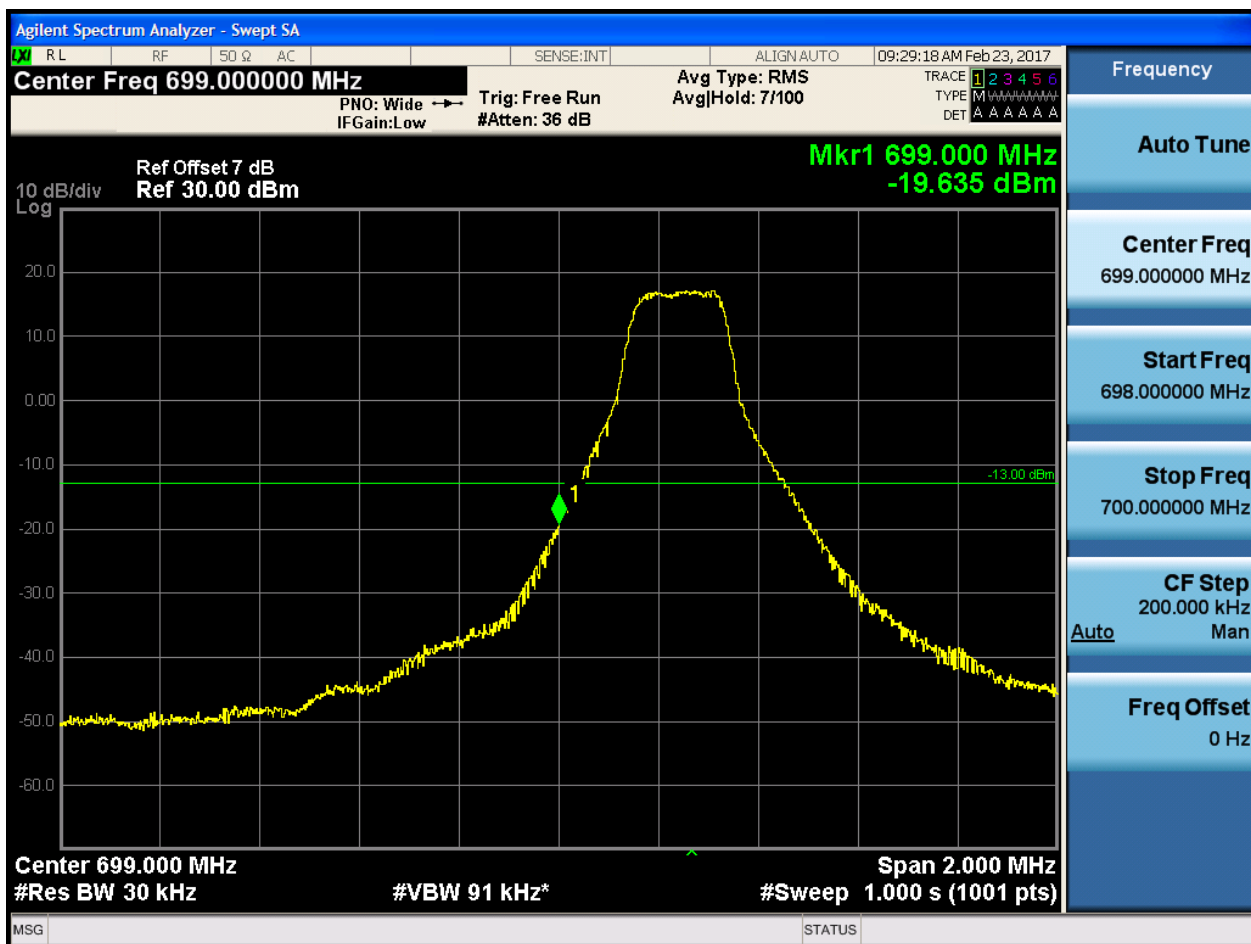
Freq Offset
0 Hz



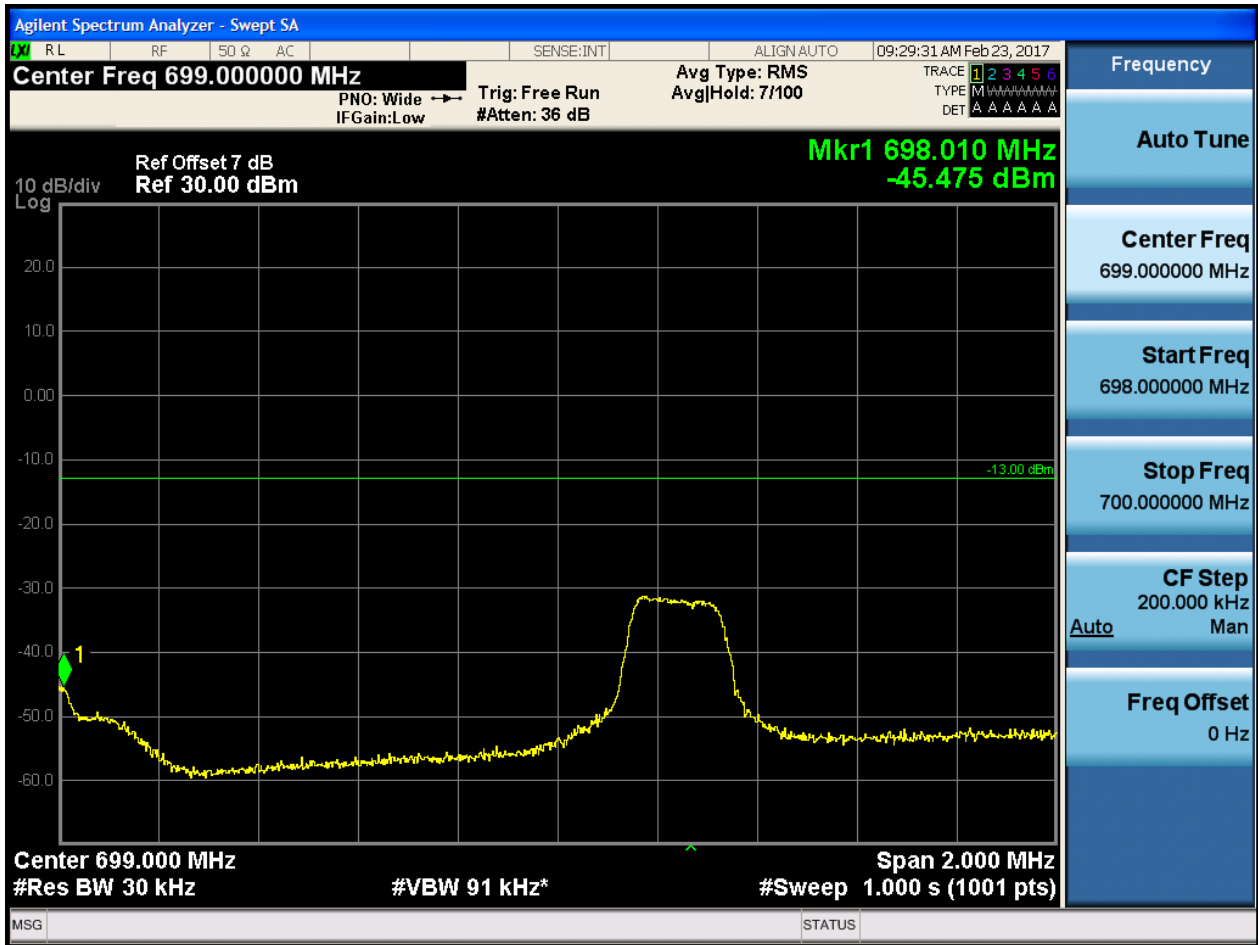
5.1.1.1.2 Test Bandwidth = 3

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:29:45 AM Feb 23, 2017

Center Freq 699.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#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 dB
Ref 30.00 dBm

Mkr1 698.990 MHz
-32.876 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 30 kHz
#VBW 91 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

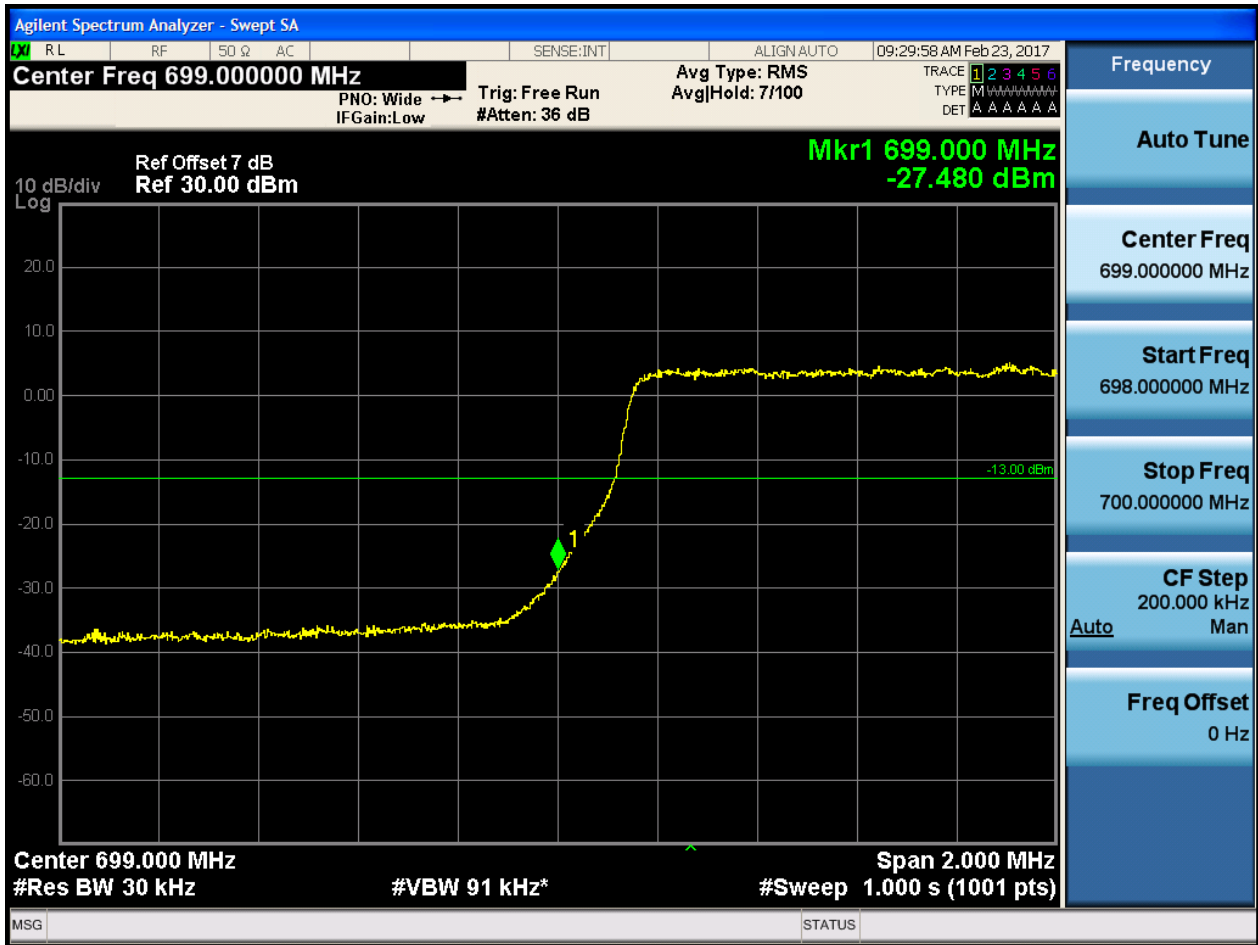
Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

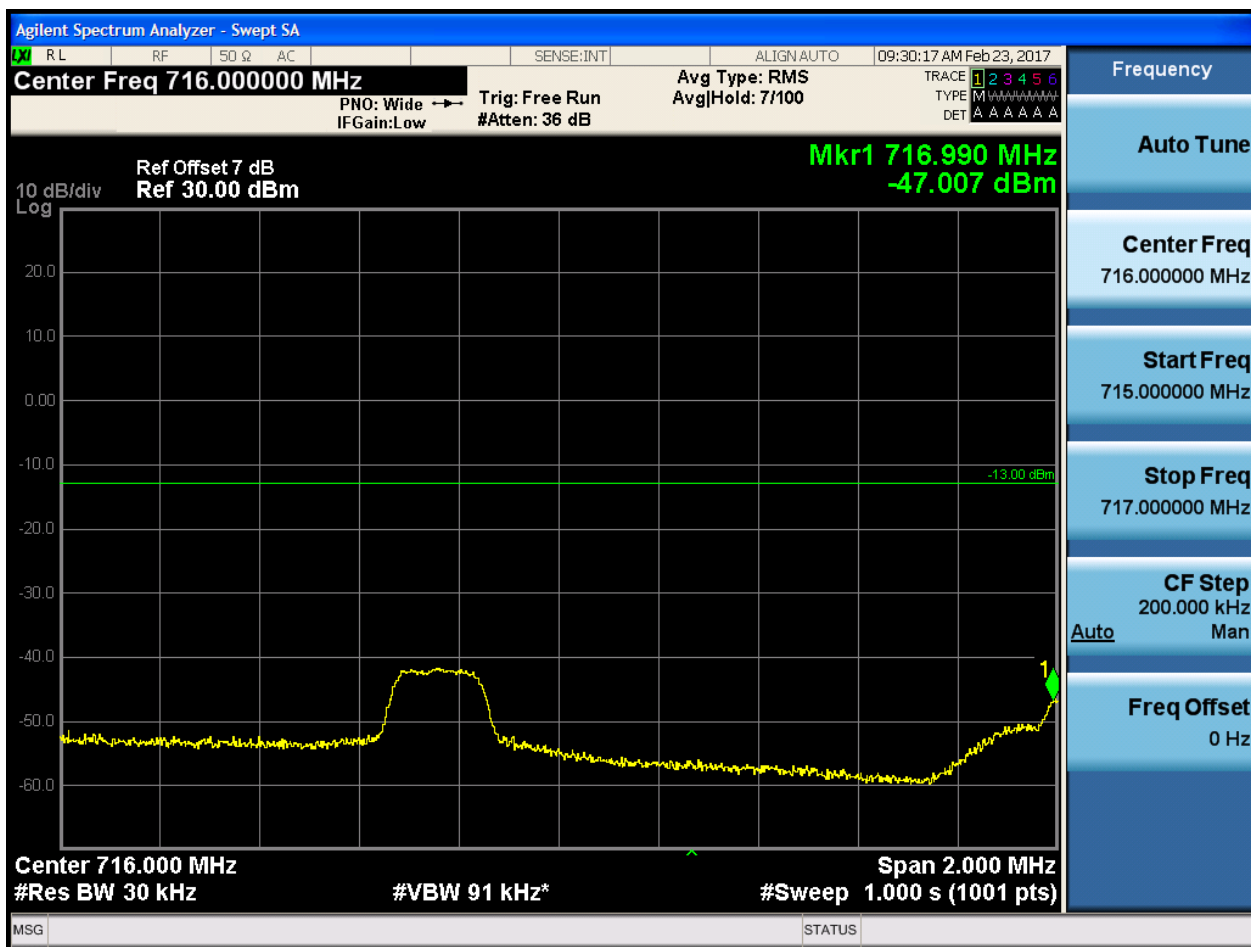
5.1.1.1.2.1.4 Test RB = RB15#0



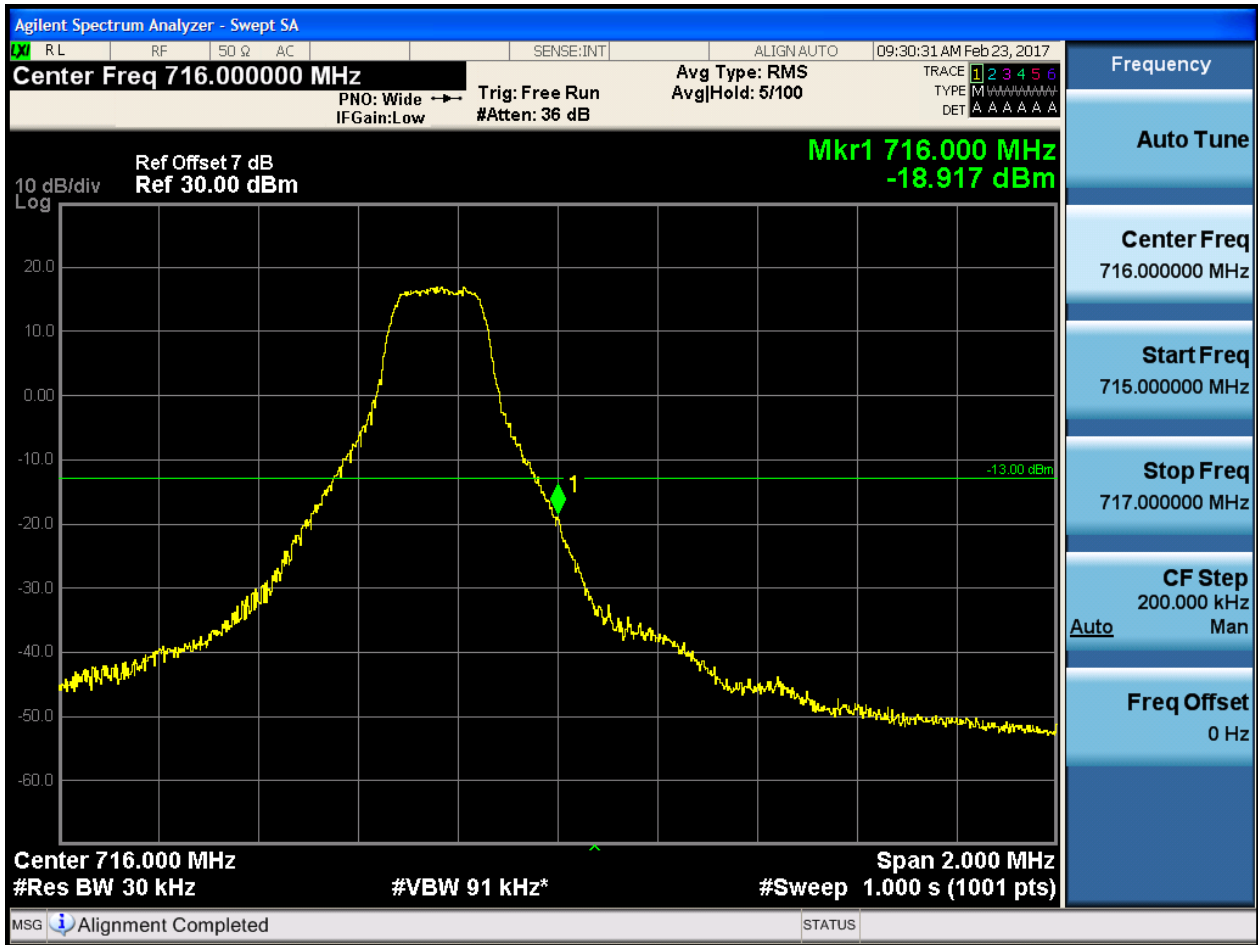


5.1.1.1.2.2 Test Channel = HCH

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

Center Freq 716.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Mkr1 716.000 MHz
-31.349 dBm

-13.00 dBm

MSG STATUS

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

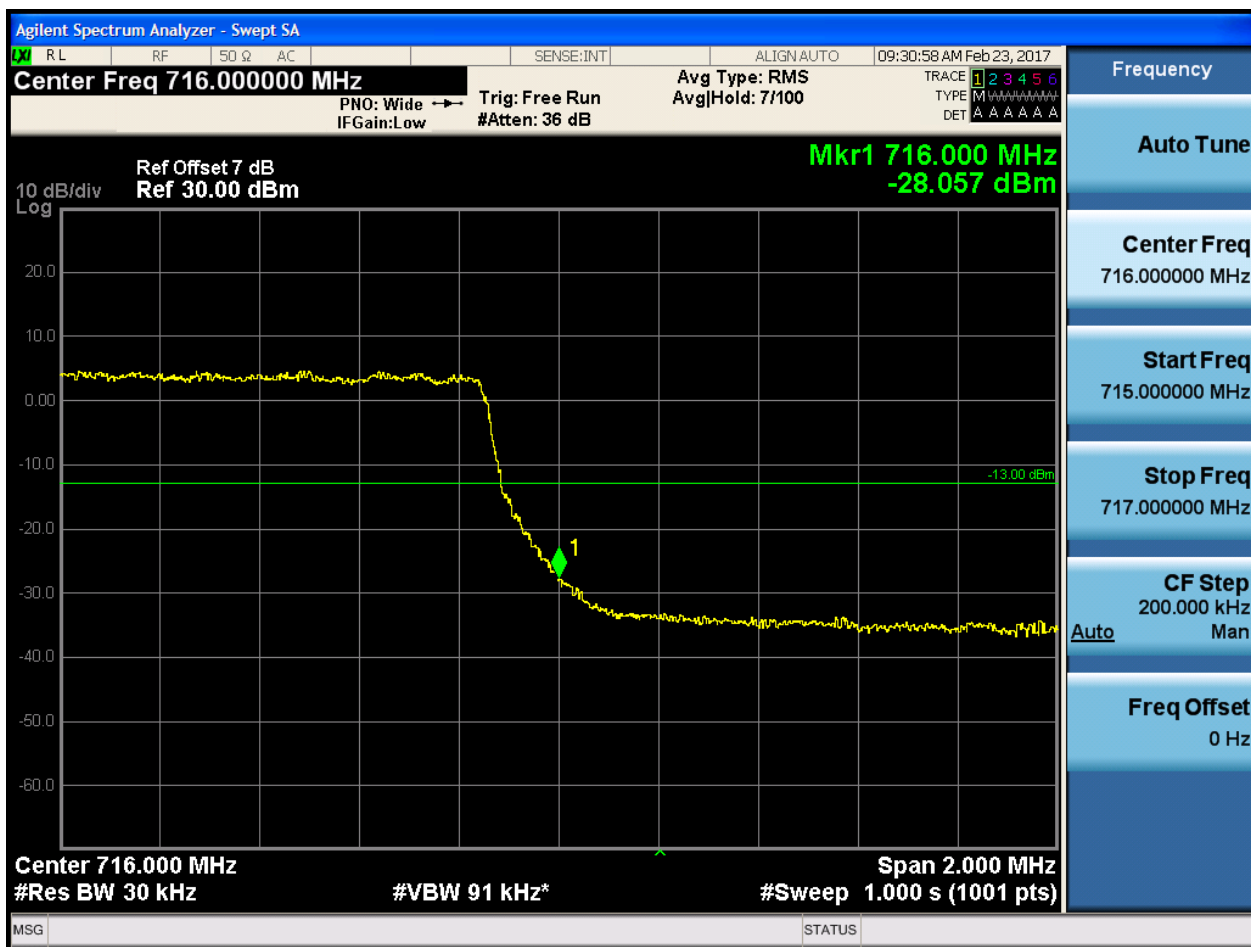
Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.2.4 Test RB = RB15#0

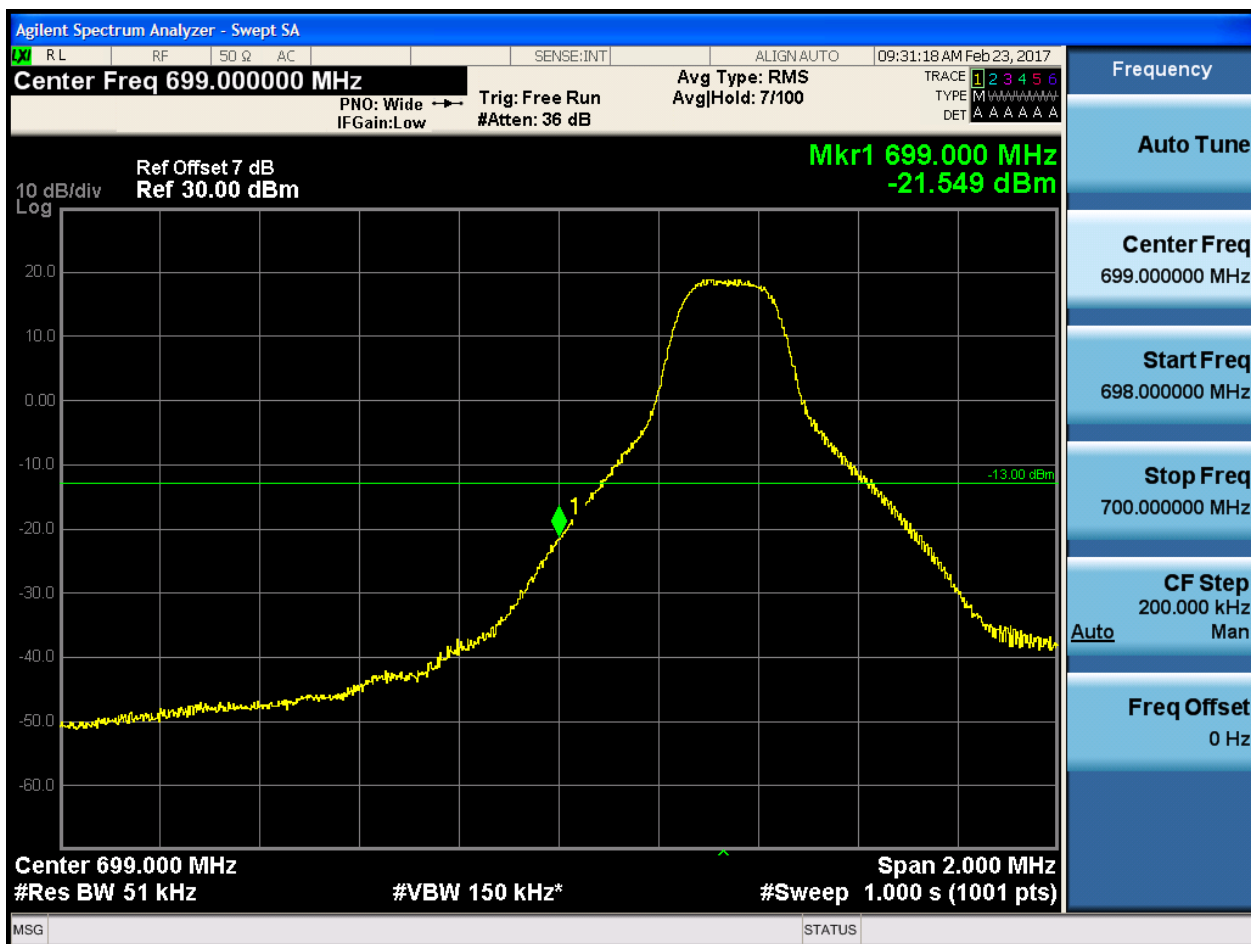




5.1.1.1.3 Test Bandwidth = 5

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:31:32 AM Feb 23, 2017

Center Freq 699.000000 MHz 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 dB
Ref 30.00 dBm

Mkr1 698.890 MHz
-51.735 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG Alignment Completed STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.3.1.3 Test RB = RB12#6



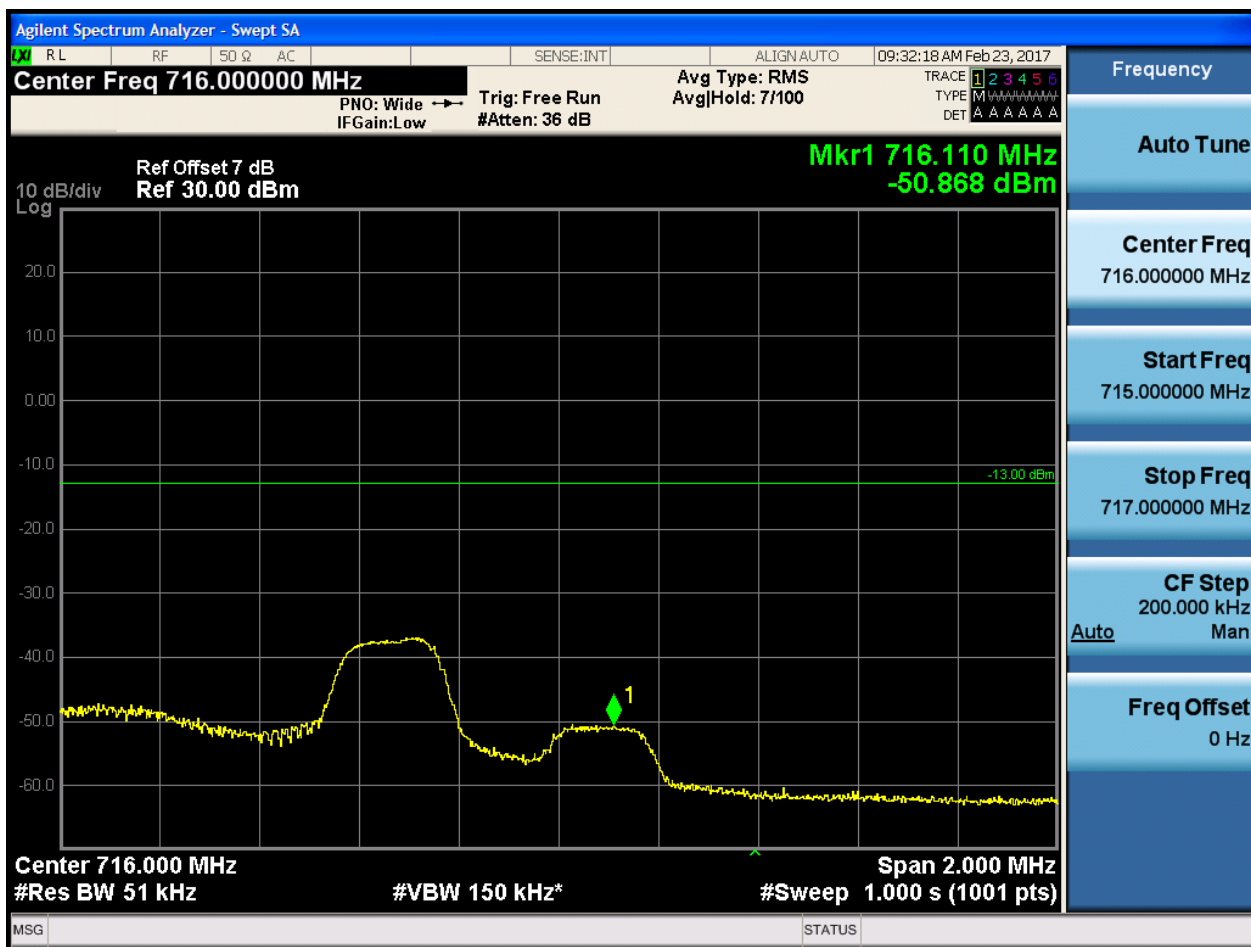
5.1.1.1.3.1.4 Test RB = RB25#0



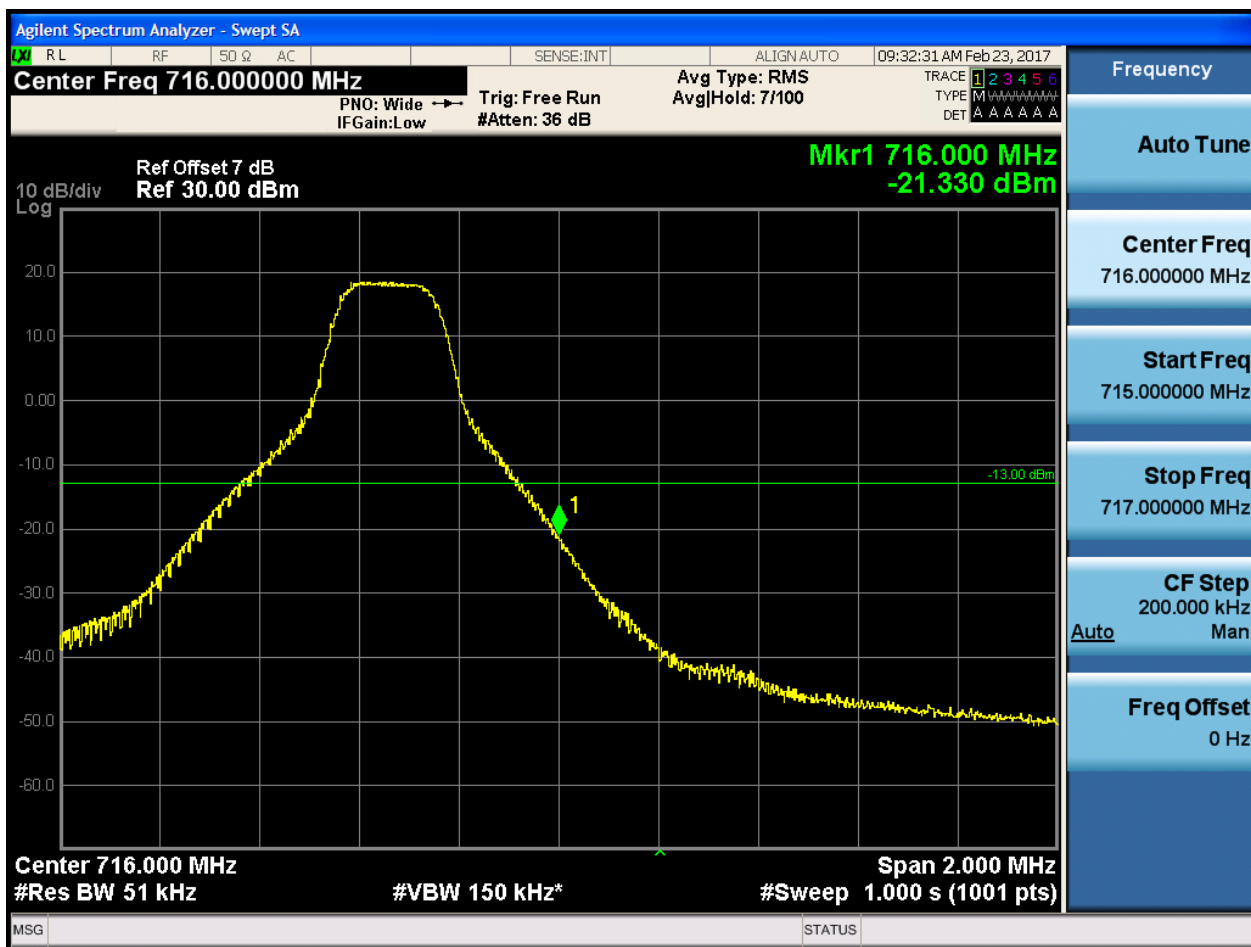


5.1.1.1.3.2 Test Channel = HCH

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





5.1.1.1.3.2.4 Test RB = RB25#0

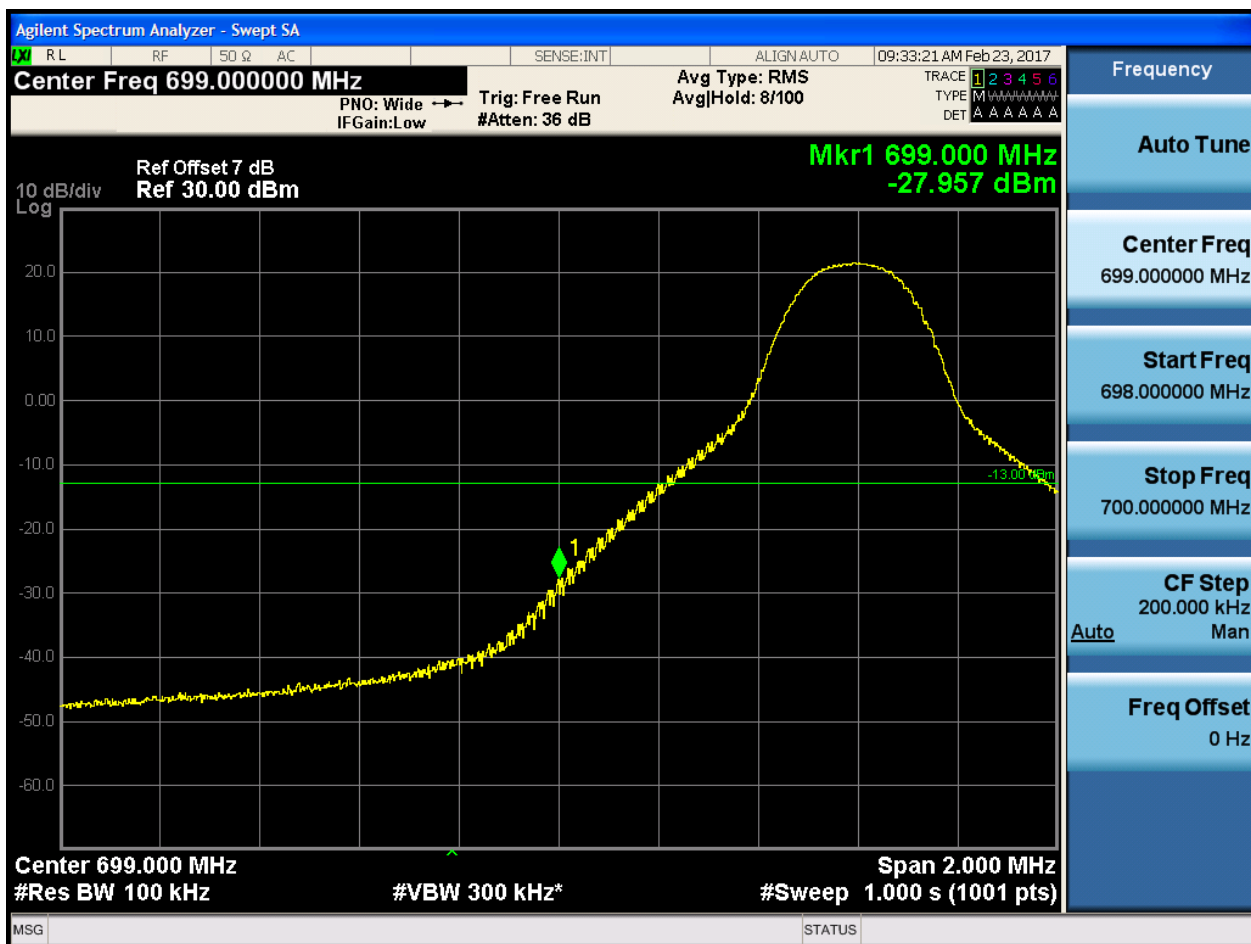




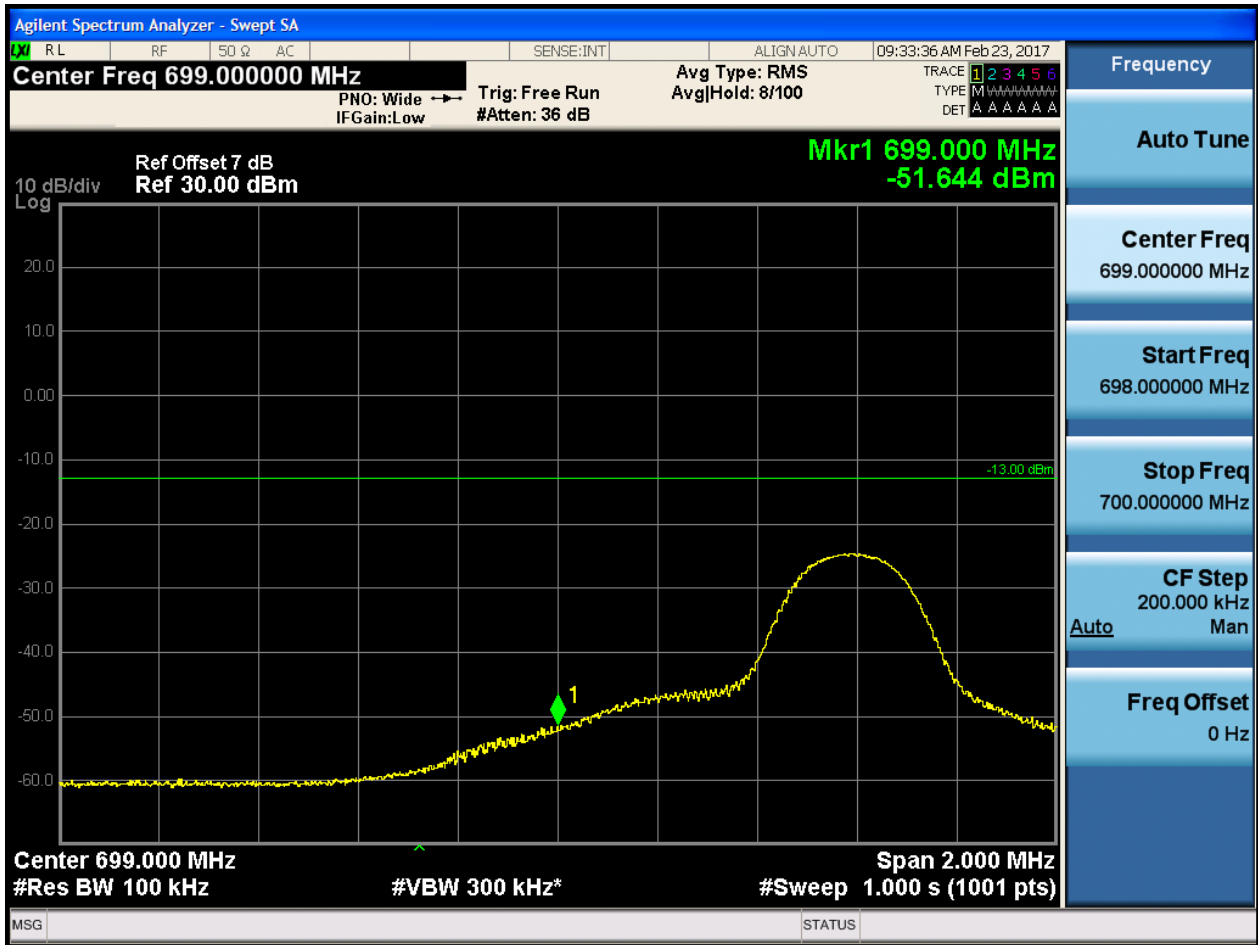
5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0

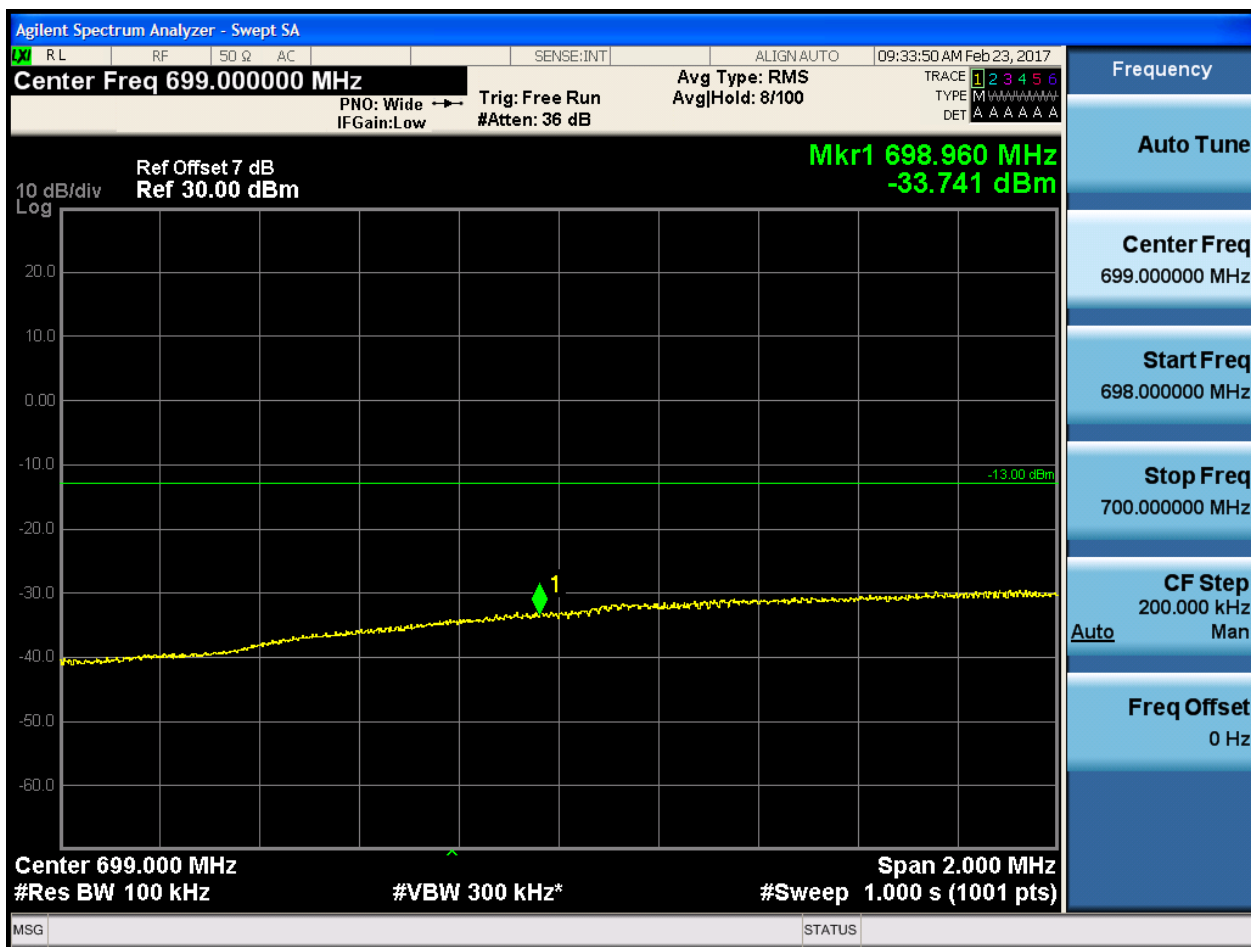


5.1.1.1.4.1.2 Test RB = RB1#49





5.1.1.1.4.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:34:04 AM Feb 23, 2017

Center Freq 699.000000 MHz 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 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-29.498 dBm

10 dB/div
Log

-13.00 dBm

Center 699.000 MHz
#Res BW 100 kHz

#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

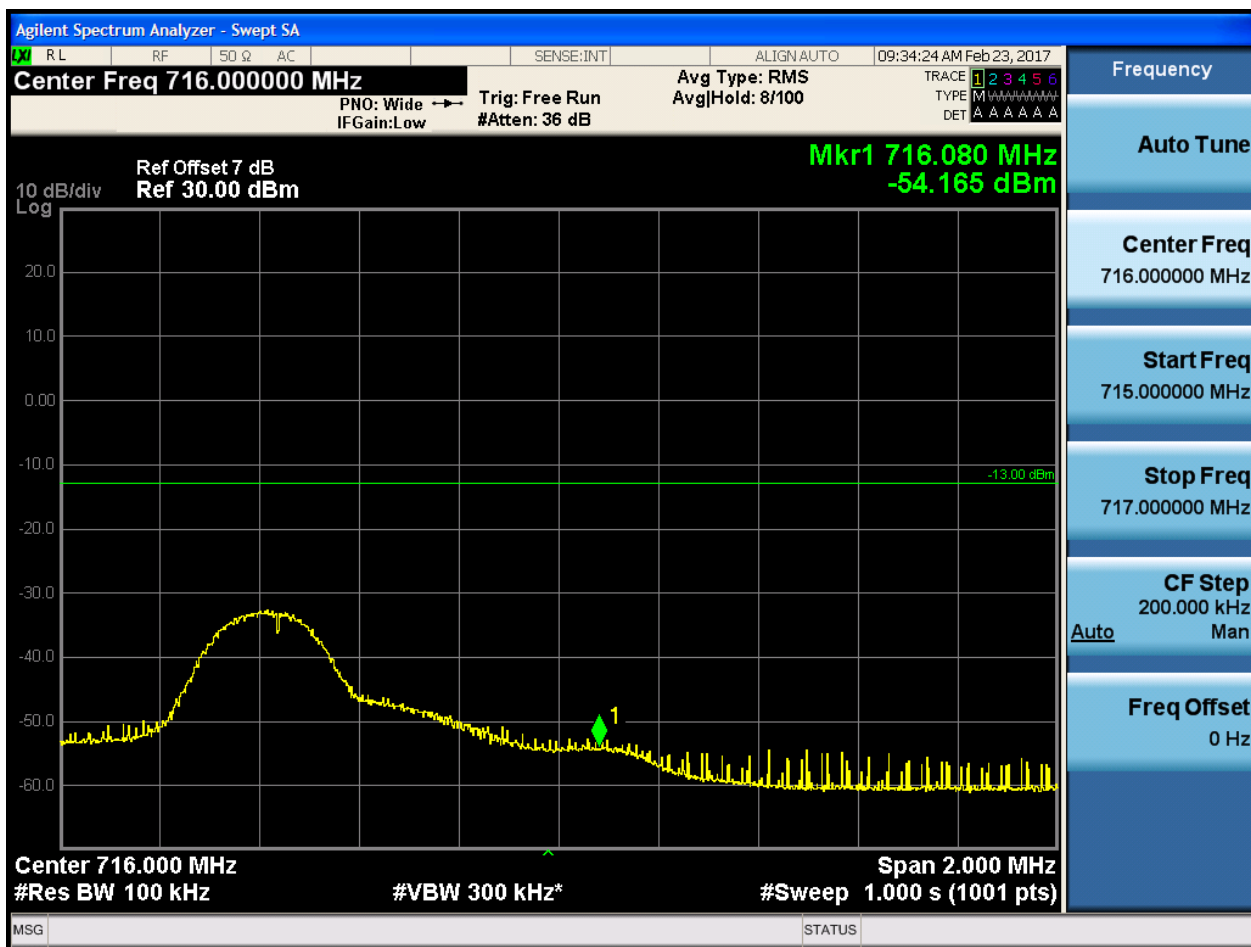
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



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

Center Freq 716.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-29.066 dBm

Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
716.000000 MHz

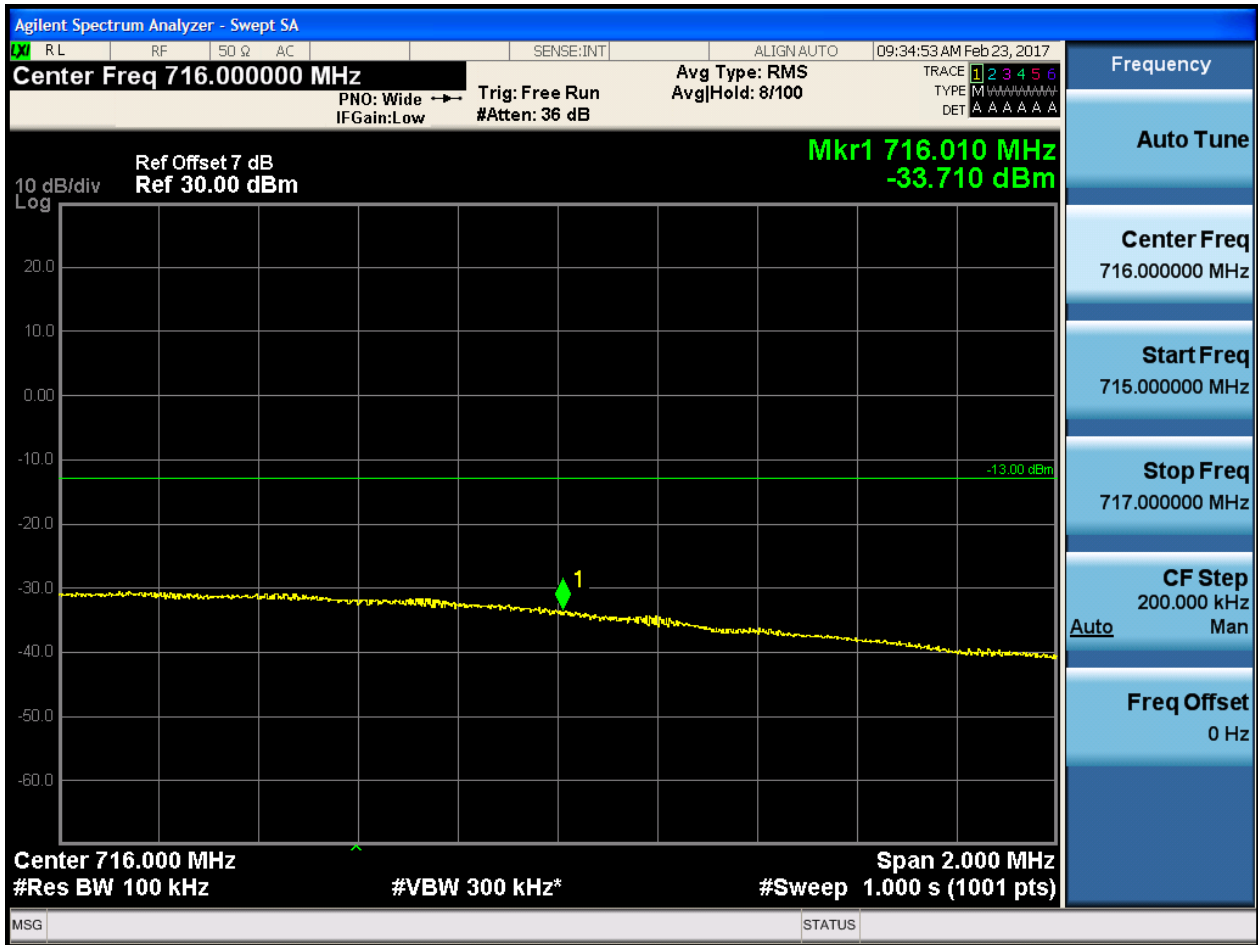
Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

5.1.1.1.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:35:07 AM Feb 23, 2017

Center Freq 716.000000 MHz 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
 DET A A A A A A

Ref Offset 7 dB
 Ref 30.00 dBm

**Mkr1 716.010 MHz
 -30.627 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

1

Center 716.000 MHz
 #Res BW 100 kHz

Span 2.000 MHz
 #Sweep 1.000 s (1001 pts)

#VBW 300 kHz*

Frequency

Auto Tune

Center Freq
 716.000000 MHz

Start Freq
 715.000000 MHz

Stop Freq
 717.000000 MHz

CF Step
 200.000 kHz
 Auto Man

Freq Offset
 0 Hz

MSG STATUS

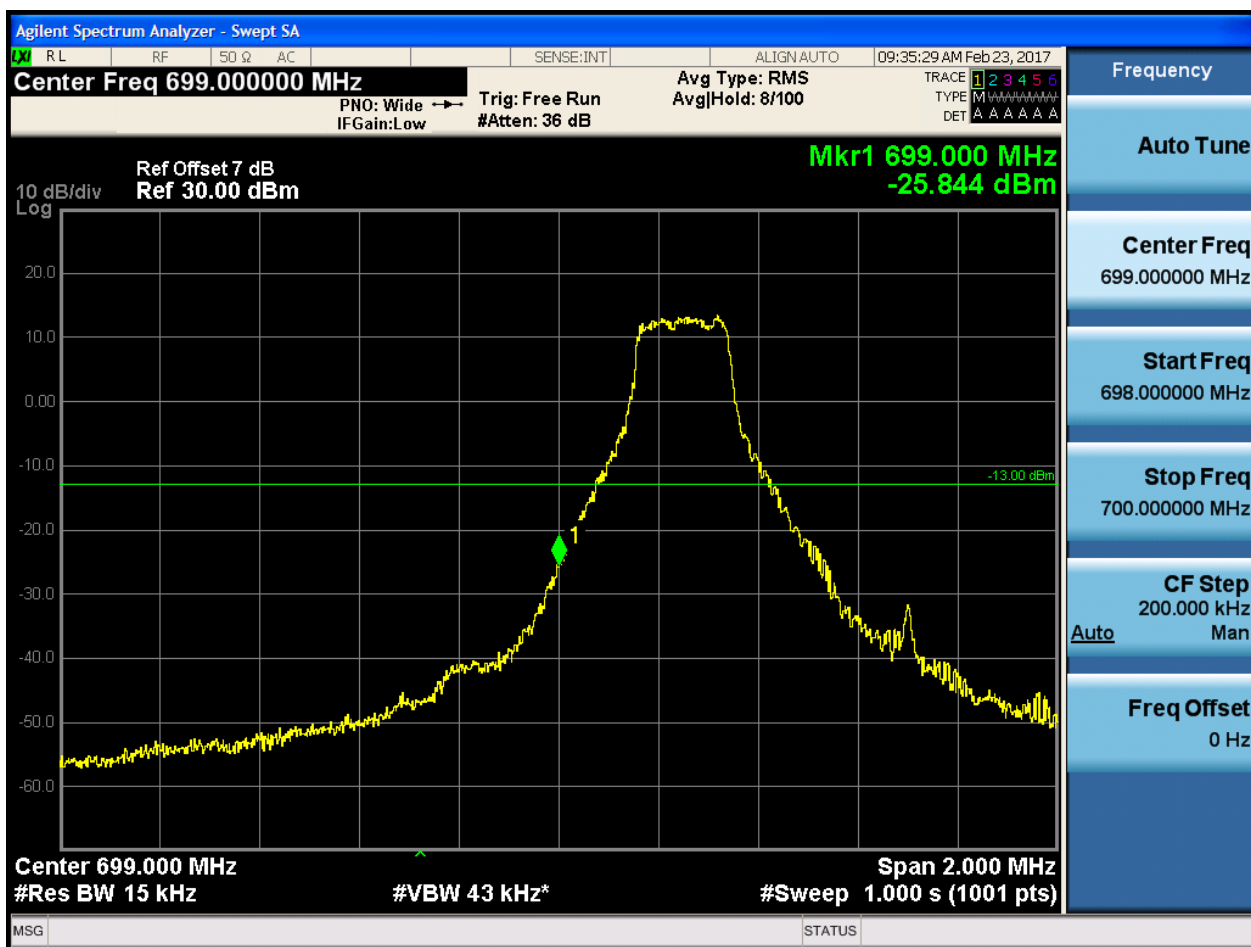


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



5.1.1.2.1.1.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-38.537 dBm

Center 699.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

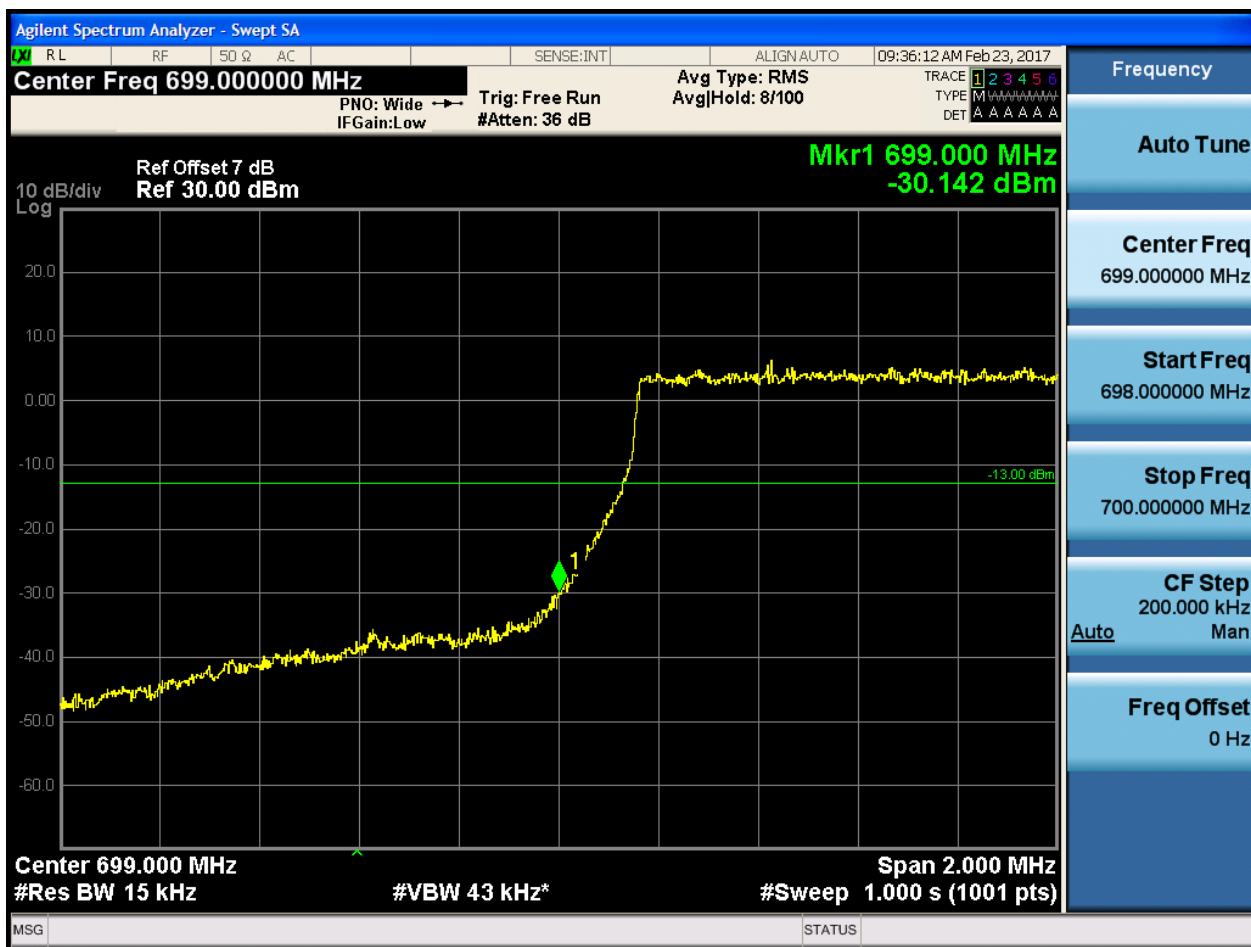
Center 699.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.1.1.4 Test RB = RB6#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:36:45 AM Feb 23, 2017

Center Freq 716.000000 MHz 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 W W
DET A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-24.795 dBm

10 dB/div
Log

Center 716.000 MHz
#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 09:37:00 AM Feb 23, 2017

Center Freq 716.000000 MHz 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 dB
Ref 30.00 dBm

Mkr1 716.010 MHz
-26.981 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.1.2.4 Test RB = RB6#0

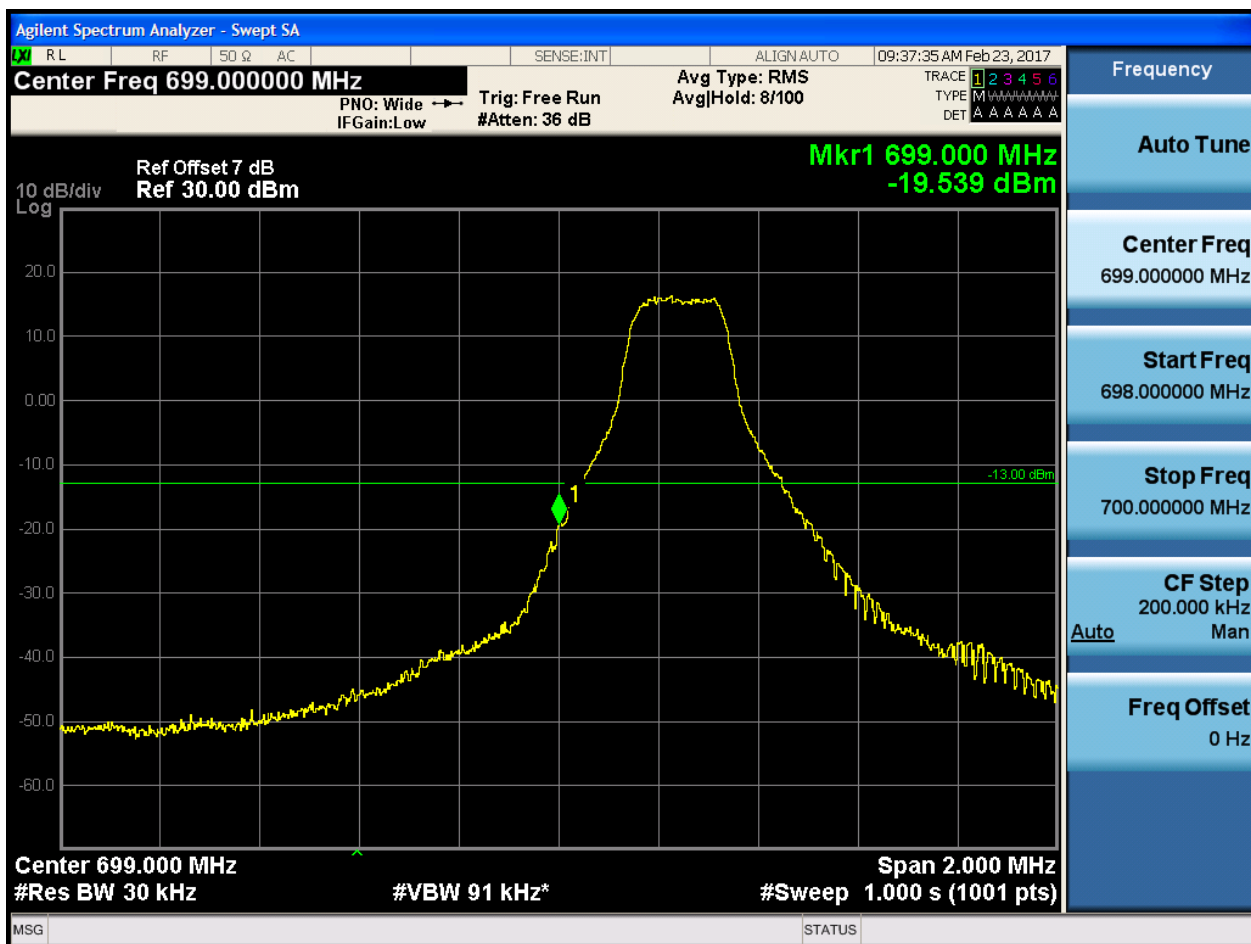




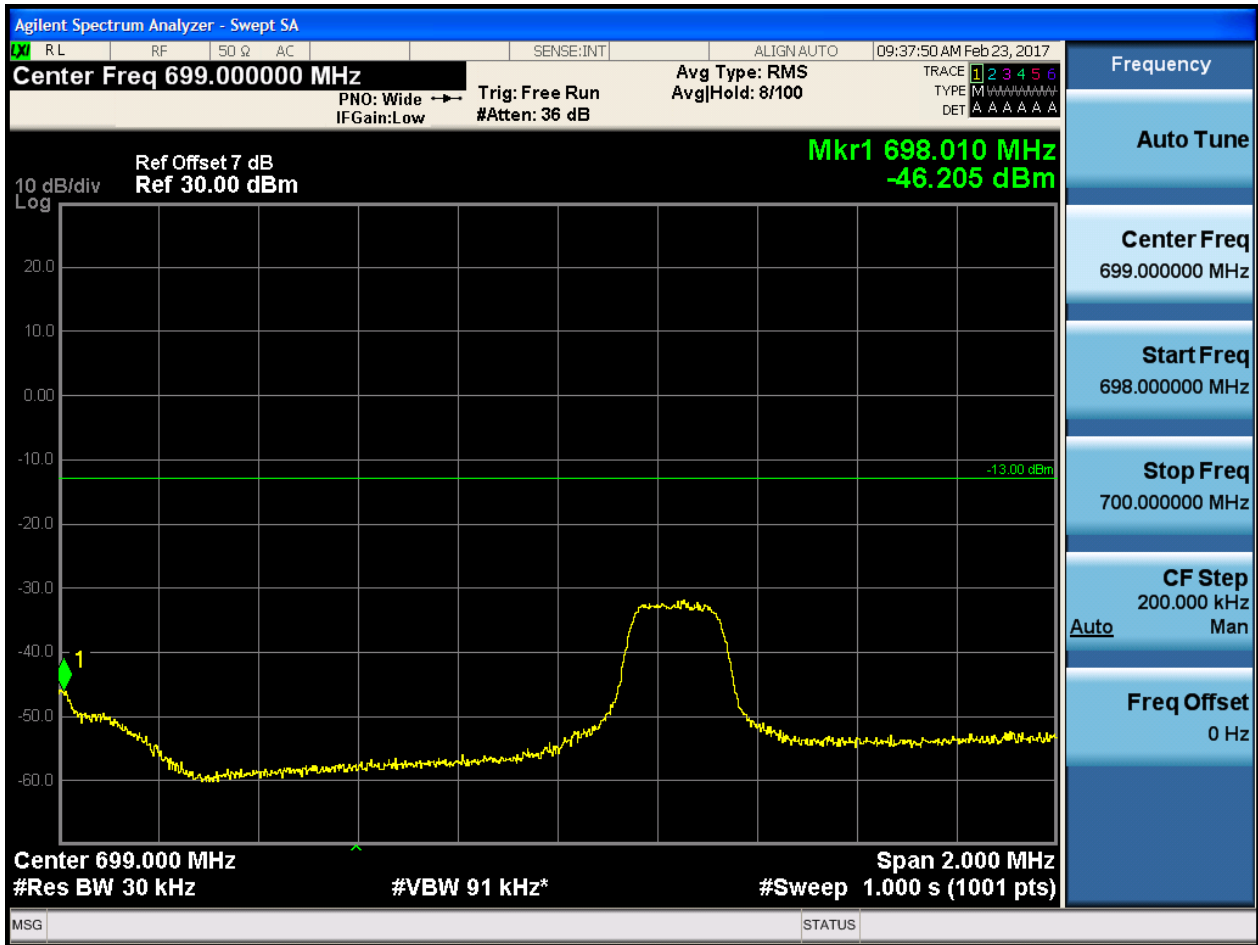
5.1.1.2.2 Test Bandwidth = 3

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



5.1.1.2.2.1.2 Test RB = RB1#14



5.1.1.2.2.1.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 7 dB
Ref 30.00 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

MSG STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

Center 699.000 MHz
#Res BW 30 kHz

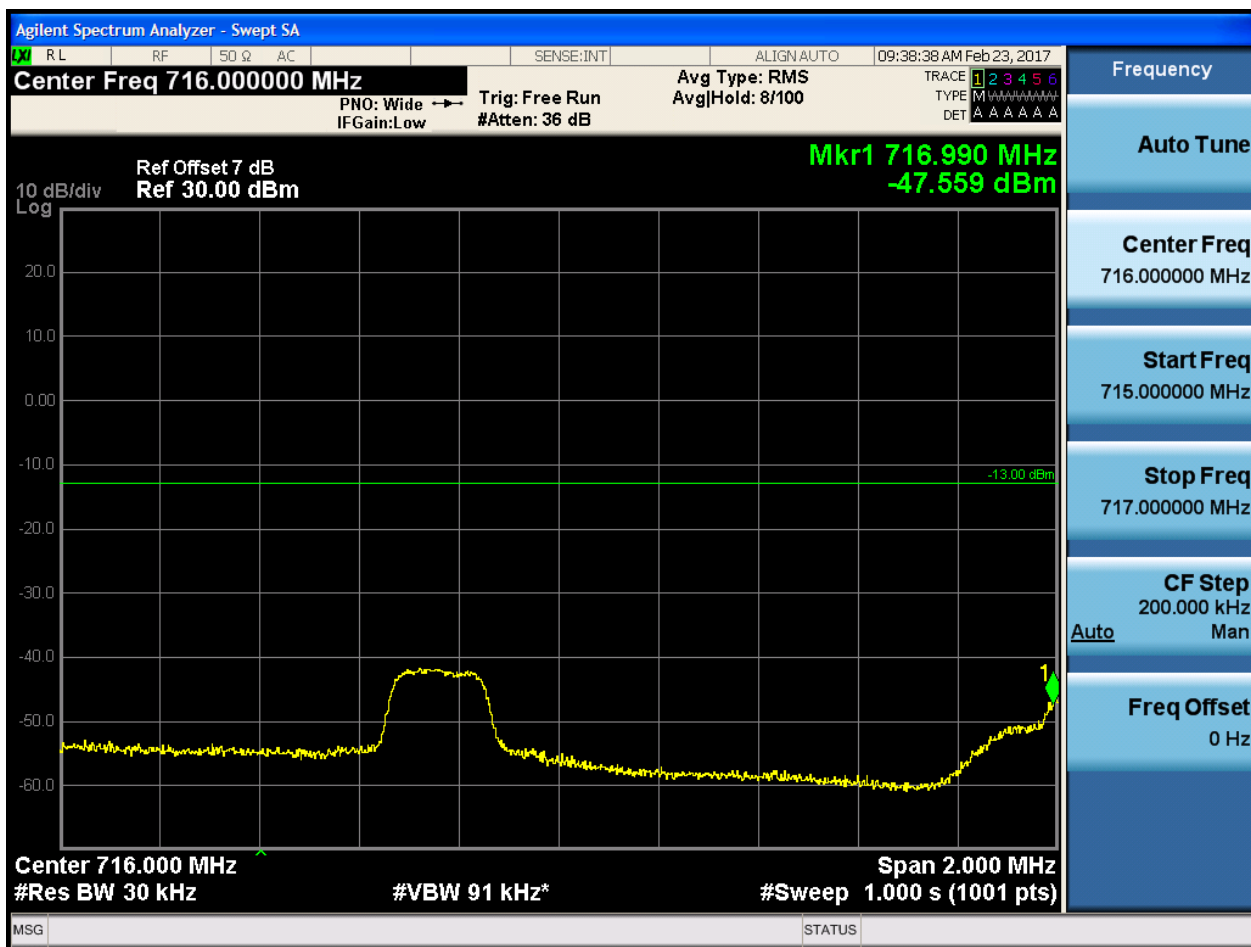
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:38:52 AM Feb 23, 2017

Center Freq 716.000000 MHz 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 W W
DET A A A A A A A

Ref Offset 7 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-20.862 dBm

10 dB/div
Log

-13.00 dBm

Center 716.000 MHz
#Res BW 30 kHz

#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

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 09:39:06 AM Feb 23, 2017

Center Freq 716.000000 MHz 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 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-33.953 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:39:20 AM Feb 23, 2017

Center Freq 716.000000 MHz 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
 DET A A A A A A

Ref Offset 7 dB
 Ref 30.00 dBm

**Mkr1 716.000 MHz
 -28.670 dBm**

10 dB/div
 Log

-13.00 dBm

Center Freq
 716.000000 MHz

Start Freq
 715.000000 MHz

Stop Freq
 717.000000 MHz

CF Step
 200.000 kHz
Auto Man

Freq Offset
 0 Hz

Center 716.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

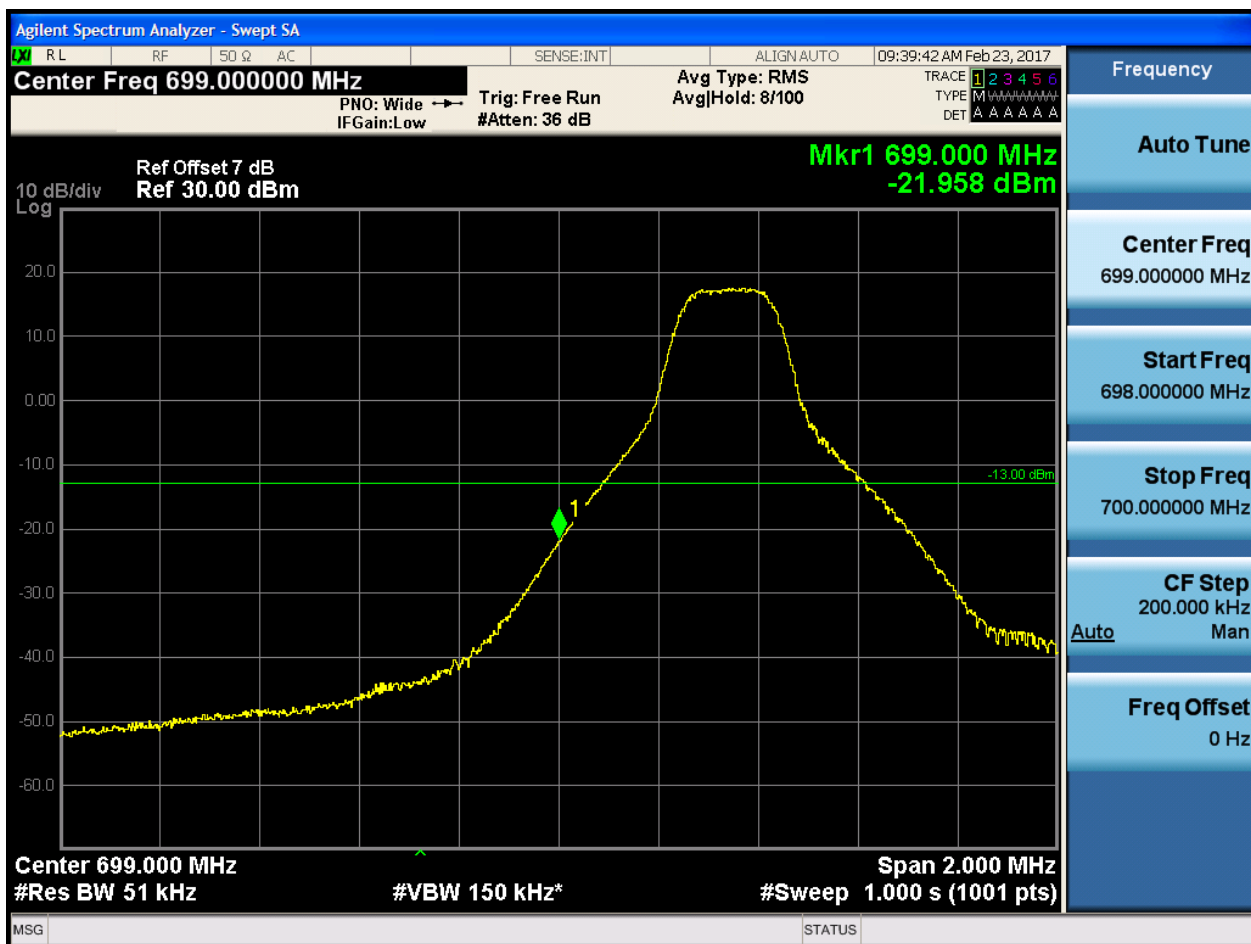
MSG STATUS



5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#24

