



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	22.34	19.00	34.7	PASS
				RB1#3	22.45	19.01	34.7	PASS
				RB1#5	22.45	18.99	34.7	PASS
				RB3#0	22.33	19.06	34.7	PASS
				RB3#2	22.41	18.91	34.7	PASS
				RB3#3	22.37	18.89	34.7	PASS
				RB6#0	21.36	18.10	34.7	PASS
			MCH	RB1#0	22.74	19.47	34.7	PASS
				RB1#3	22.69	19.26	34.7	PASS
				RB1#5	22.57	19.17	34.7	PASS
				RB3#0	22.61	19.31	34.7	PASS
				RB3#2	22.55	19.28	34.7	PASS
				RB3#3	22.53	19.22	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB6#0	21.69	18.30	34.7	PASS
			HCH	RB1#0	23.01	19.46	34.7	PASS
				RB1#3	22.94	19.69	34.7	PASS
				RB1#5	22.78	19.27	34.7	PASS
				RB3#0	22.96	19.45	34.7	PASS
				RB3#2	22.87	19.58	34.7	PASS
				RB3#3	22.79	19.25	34.7	PASS
				RB6#0	21.96	18.58	34.7	PASS
		3	LCH	RB1#0	22.14	18.67	34.7	PASS
				RB1#7	22.73	19.47	34.7	PASS
				RB1#14	22.57	19.21	34.7	PASS
				RB8#0	21.35	17.97	34.7	PASS
				RB8#4	21.6	18.30	34.7	PASS
				RB8#7	21.68	18.29	34.7	PASS
				RB15#0	21.51	18.23	34.7	PASS
			MCH	RB1#0	22.55	19.27	34.7	PASS
				RB1#7	22.64	19.19	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#14	22.43	18.88	34.7	PASS
				RB8#0	21.73	18.35	34.7	PASS
				RB8#4	21.69	18.37	34.7	PASS
				RB8#7	21.67	18.14	34.7	PASS
				RB15#0	21.73	18.28	34.7	PASS
			HCH	RB1#0	22.85	19.32	34.7	PASS
				RB1#7	23.13	19.63	34.7	PASS
				RB1#14	22.55	19.06	34.7	PASS
				RB8#0	22.01	18.57	34.7	PASS
				RB8#4	22.11	18.65	34.7	PASS
				RB8#7	21.88	18.37	34.7	PASS
				RB15#0	21.99	18.67	34.7	PASS
		5	LCH	RB1#0	22.75	19.46	34.7	PASS
				RB1#13	23.49	19.98	34.7	PASS
				RB1#24	23.46	19.91	34.7	PASS
				RB12#0	22.04	18.77	34.7	PASS
				RB12#6	22.37	19.06	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#13	22.43	18.97	34.7	PASS
				RB25#0	22.28	18.87	34.7	PASS
			MCH	RB1#0	23.06	19.59	34.7	PASS
				RB1#13	23.16	19.88	34.7	PASS
				RB1#24	23.07	19.81	34.7	PASS
				RB12#0	22.34	18.98	34.7	PASS
				RB12#6	22.35	19.02	34.7	PASS
				RB12#13	22.14	18.76	34.7	PASS
				RB25#0	22.25	18.96	34.7	PASS
			HCH	RB1#0	23.19	19.74	34.7	PASS
				RB1#13	23.61	20.10	34.7	PASS
				RB1#24	23.17	19.87	34.7	PASS
				RB12#0	22.36	19.07	34.7	PASS
				RB12#6	22.55	19.11	34.7	PASS
				RB12#13	22.48	19.00	34.7	PASS
				RB25#0	22.43	19.00	34.7	PASS
		10	LCH	RB1#0	22.51	19.18	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#25	23.41	20.05	34.7	PASS
				RB1#49	22.8	19.30	34.7	PASS
				RB25#0	22.06	18.54	34.7	PASS
				RB25#13	22.4	18.94	34.7	PASS
				RB25#25	21.99	18.64	34.7	PASS
				RB50#0	22.08	18.62	34.7	PASS
			MCH	RB1#0	23.1	19.56	34.7	PASS
				RB1#25	23.07	19.76	34.7	PASS
				RB1#49	23.05	19.79	34.7	PASS
				RB25#0	22.13	18.71	34.7	PASS
				RB25#13	22.08	18.78	34.7	PASS
				RB25#25	21.8	18.48	34.7	PASS
				RB50#0	22.02	18.51	34.7	PASS
			HCH	RB1#0	22.85	19.46	34.7	PASS
				RB1#25	23.44	20.15	34.7	PASS
				RB1#49	22.94	19.50	34.7	PASS
				RB25#0	21.99	18.66	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#13	22.12	18.81	34.7	PASS
				RB25#25	22.09	18.68	34.7	PASS
				RB50#0	21.95	18.45	34.7	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.47	18.08	34.7	PASS
				RB1#3	21.52	18.11	34.7	PASS
				RB1#5	21.5	18.13	34.7	PASS
				RB3#0	21.34	17.87	34.7	PASS
				RB3#2	21.47	18.08	34.7	PASS
				RB3#3	21.32	17.98	34.7	PASS
				RB6#0	20.52	17.03	34.7	PASS
			MCH	RB1#0	21.87	18.37	34.7	PASS
				RB1#3	21.84	18.56	34.7	PASS
				RB1#5	21.78	18.48	34.7	PASS
				RB3#0	21.72	18.42	34.7	PASS
				RB3#2	21.69	18.36	34.7	PASS
				RB3#3	21.66	18.17	34.7	PASS
				RB6#0	20.77	17.24	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.09	18.83	34.7	PASS
				RB1#3	22	18.65	34.7	PASS
				RB1#5	21.82	18.46	34.7	PASS
				RB3#0	21.86	18.50	34.7	PASS
				RB3#2	21.79	18.38	34.7	PASS
				RB3#3	21.71	18.32	34.7	PASS
				RB6#0	21.02	17.68	34.7	PASS
		3	LCH	RB1#0	21.33	17.88	34.7	PASS
				RB1#7	21.74	18.28	34.7	PASS
				RB1#14	21.63	18.24	34.7	PASS
				RB8#0	20.51	17.18	34.7	PASS
				RB8#4	20.61	17.11	34.7	PASS
				RB8#7	20.68	17.35	34.7	PASS
				RB15#0	20.44	17.16	34.7	PASS
			MCH	RB1#0	21.65	18.26	34.7	PASS
				RB1#7	21.78	18.52	34.7	PASS
				RB1#14	21.67	18.21	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	20.8	17.26	34.7	PASS
				RB8#4	20.71	17.37	34.7	PASS
				RB8#7	20.73	17.38	34.7	PASS
				RB15#0	20.72	17.27	34.7	PASS
			HCH	RB1#0	22.08	18.79	34.7	PASS
				RB1#7	22.38	19.10	34.7	PASS
				RB1#14	21.74	18.42	34.7	PASS
				RB8#0	20.94	17.48	34.7	PASS
				RB8#4	21.07	17.54	34.7	PASS
				RB8#7	20.9	17.44	34.7	PASS
				RB15#0	20.87	17.61	34.7	PASS
		5	LCH	RB1#0	21.91	18.48	34.7	PASS
				RB1#13	22.68	19.32	34.7	PASS
				RB1#24	22.66	19.26	34.7	PASS
				RB12#0	21.06	17.69	34.7	PASS
				RB12#6	21.39	17.90	34.7	PASS
				RB12#13	21.39	17.92	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.25	17.94	34.7	PASS
			MCH	RB1#0	22.34	19.06	34.7	PASS
				RB1#13	22.39	18.88	34.7	PASS
				RB1#24	22.36	18.89	34.7	PASS
				RB12#0	21.45	17.95	34.7	PASS
				RB12#6	21.42	17.98	34.7	PASS
				RB12#13	21.2	17.81	34.7	PASS
				RB25#0	21.34	17.98	34.7	PASS
			HCH	RB1#0	22.5	19.00	34.7	PASS
				RB1#13	22.93	19.63	34.7	PASS
				RB1#24	22.55	19.26	34.7	PASS
				RB12#0	21.45	18.02	34.7	PASS
				RB12#6	21.56	18.14	34.7	PASS
				RB12#13	21.44	18.13	34.7	PASS
				RB25#0	21.3	17.92	34.7	PASS
		10	LCH	RB1#0	21.7	18.26	34.7	PASS
				RB1#25	22.7	19.31	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.97	18.48	34.7	PASS
				RB25#0	21	17.55	34.7	PASS
				RB25#13	21.3	17.94	34.7	PASS
				RB25#25	20.91	17.65	34.7	PASS
				RB50#0	20.97	17.50	34.7	PASS
			MCH	RB1#0	22.11	18.66	34.7	PASS
				RB1#25	22.1	18.81	34.7	PASS
				RB1#49	22.04	18.73	34.7	PASS
				RB25#0	21.09	17.77	34.7	PASS
				RB25#13	21.13	17.88	34.7	PASS
				RB25#25	20.8	17.38	34.7	PASS
				RB50#0	20.94	17.64	34.7	PASS
			HCH	RB1#0	21.87	18.51	34.7	PASS
				RB1#25	22.51	19.18	34.7	PASS
				RB1#49	22	18.64	34.7	PASS
				RB25#0	21.04	17.57	34.7	PASS
				RB25#13	21.15	17.66	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.05	17.78	34.7	PASS
				RB50#0	21.04	17.68	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,

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

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

b, SGP=Signal Generator Level

Note2:

SET Span=1.5*OBW

SET RBW=1%of the OBW,not to wxceed 1MHz

SET VBW>= 3*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
BAND12	LTE/TM1	1.4	LCH	RB1#0	4.74	13	PASS
				RB1#3	4.98	13	PASS
				RB1#5	4.85	13	PASS
				RB3#0	5.1	13	PASS
				RB3#2	4.88	13	PASS
				RB3#3	5.19	13	PASS
				RB6#0	6.1	13	PASS
			MCH	RB1#0	3.92	13	PASS
				RB1#3	3.88	13	PASS
				RB1#5	4.15	13	PASS
				RB3#0	4.15	13	PASS
				RB3#2	4.09	13	PASS
				RB3#3	4.52	13	PASS
				RB6#0	5.5	13	PASS
			HCH	RB1#0	3.66	13	PASS
				RB1#3	3.49	13	PASS
				RB1#5	3.51	13	PASS
				RB3#0	3.87	13	PASS
				RB3#2	3.68	13	PASS
				RB3#3	3.86	13	PASS
				RB6#0	5.08	13	PASS
		3	LCH	RB1#0	4.54	13	PASS
				RB1#7	4.4	13	PASS
				RB1#14	4.49	13	PASS
				RB8#0	5.73	13	PASS
				RB8#4	5.61	13	PASS
				RB8#7	5.66	13	PASS
				RB15#0	5.71	13	PASS
			MCH	RB1#0	3.82	13	PASS
				RB1#7	3.78	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#14	4.28	13	PASS
				RB8#0	5.1	13	PASS
				RB8#4	5.07	13	PASS
				RB8#7	5.2	13	PASS
				RB15#0	5.32	13	PASS
			HCH	RB1#0	4.24	13	PASS
				RB1#7	3.89	13	PASS
				RB1#14	3.89	13	PASS
				RB8#0	5.12	13	PASS
				RB8#4	4.85	13	PASS
				RB8#7	4.86	13	PASS
				RB15#0	5.42	13	PASS
		5	LCH	RB1#0	4.56	13	PASS
				RB1#13	4.21	13	PASS
				RB1#24	3.71	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.25	13	PASS
				RB12#13	5.11	13	PASS
				RB25#0	5.71	13	PASS
			MCH	RB1#0	3.55	13	PASS
				RB1#13	3.69	13	PASS
				RB1#24	4.34	13	PASS
				RB12#0	4.73	13	PASS
				RB12#6	4.61	13	PASS
				RB12#13	5.25	13	PASS
				RB25#0	5.37	13	PASS
			HCH	RB1#0	4.72	13	PASS
				RB1#13	3.9	13	PASS
				RB1#24	3.34	13	PASS
				RB12#0	5.62	13	PASS
				RB12#6	5.03	13	PASS
				RB12#13	4.82	13	PASS
				RB25#0	5.36	13	PASS
		10	LCH	RB1#0	4.41	13	PASS
				RB1#25	3.6	13	PASS
				RB1#49	4.1	13	PASS
				RB25#0	5.44	13	PASS
				RB25#13	4.8	13	PASS
				RB25#25	4.92	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.49	13	PASS
			MCH	RB1#0	3.82	13	PASS
				RB1#25	3.55	13	PASS
				RB1#49	4.31	13	PASS
				RB25#0	4.91	13	PASS
				RB25#13	4.96	13	PASS
				RB25#25	5.6	13	PASS
				RB50#0	5.73	13	PASS
			HCH	RB1#0	3.75	13	PASS
				RB1#25	4.44	13	PASS
				RB1#49	3.4	13	PASS
				RB25#0	5.43	13	PASS
				RB25#13	5.5	13	PASS
				RB25#25	5.34	13	PASS
				RB50#0	5.6	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.67	13	PASS
				RB1#3	5.5	13	PASS
				RB1#5	5.57	13	PASS
				RB3#0	6.02	13	PASS
				RB3#2	6.01	13	PASS
				RB3#3	6.11	13	PASS
				RB6#0	6.61	13	PASS
			MCH	RB1#0	4.71	13	PASS
				RB1#3	4.76	13	PASS
				RB1#5	4.87	13	PASS
				RB3#0	5.02	13	PASS
				RB3#2	5.23	13	PASS
				RB3#3	5.15	13	PASS
				RB6#0	6.17	13	PASS
			HCH	RB1#0	4.44	13	PASS
				RB1#3	4.42	13	PASS
				RB1#5	4.22	13	PASS
				RB3#0	4.96	13	PASS
				RB3#2	4.87	13	PASS
				RB3#3	4.91	13	PASS
				RB6#0	6.02	13	PASS
		3	LCH	RB1#0	5.66	13	PASS
				RB1#7	5.33	13	PASS
				RB1#14	5.67	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	6.44	13	PASS
				RB8#4	6.3	13	PASS
				RB8#7	6.31	13	PASS
				RB15#0	6.78	13	PASS
			MCH	RB1#0	4.59	13	PASS
				RB1#7	4.61	13	PASS
				RB1#14	5.05	13	PASS
				RB8#0	5.54	13	PASS
				RB8#4	5.59	13	PASS
				RB8#7	5.68	13	PASS
				RB15#0	6.12	13	PASS
			HCH	RB1#0	5.26	13	PASS
				RB1#7	4.46	13	PASS
				RB1#14	4.27	13	PASS
				RB8#0	6.01	13	PASS
				RB8#4	5.69	13	PASS
				RB8#7	5.69	13	PASS
				RB15#0	5.95	13	PASS
		5	LCH	RB1#0	5.44	13	PASS
				RB1#13	5.31	13	PASS
				RB1#24	4.58	13	PASS
				RB12#0	6.32	13	PASS
				RB12#6	6.12	13	PASS
				RB12#13	5.96	13	PASS
				RB25#0	6.47	13	PASS
			MCH	RB1#0	4.35	13	PASS
				RB1#13	4.43	13	PASS
				RB1#24	4.95	13	PASS
				RB12#0	5.33	13	PASS
				RB12#6	5.33	13	PASS
				RB12#13	5.83	13	PASS
				RB25#0	6.15	13	PASS
			HCH	RB1#0	5.15	13	PASS
				RB1#13	4.46	13	PASS
				RB1#24	3.82	13	PASS
				RB12#0	6.1	13	PASS
				RB12#6	5.72	13	PASS
				RB12#13	5.52	13	PASS
				RB25#0	6.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10	LCH	RB1#0	5.01	13	PASS
				RB1#25	4.36	13	PASS
				RB1#49	4.63	13	PASS
				RB25#0	6.21	13	PASS
				RB25#13	5.78	13	PASS
				RB25#25	5.83	13	PASS
				RB50#0	6.3	13	PASS
			MCH	RB1#0	4.63	13	PASS
				RB1#25	4.57	13	PASS
				RB1#49	5.07	13	PASS
				RB25#0	5.67	13	PASS
				RB25#13	5.72	13	PASS
				RB25#25	6.41	13	PASS
				RB50#0	6.49	13	PASS
			HCH	RB1#0	4.36	13	PASS
				RB1#25	4.76	13	PASS
				RB1#49	4.14	13	PASS
				RB25#0	6.34	13	PASS
				RB25#13	6.43	13	PASS
				RB25#25	6.39	13	PASS
				RB50#0	6.68	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

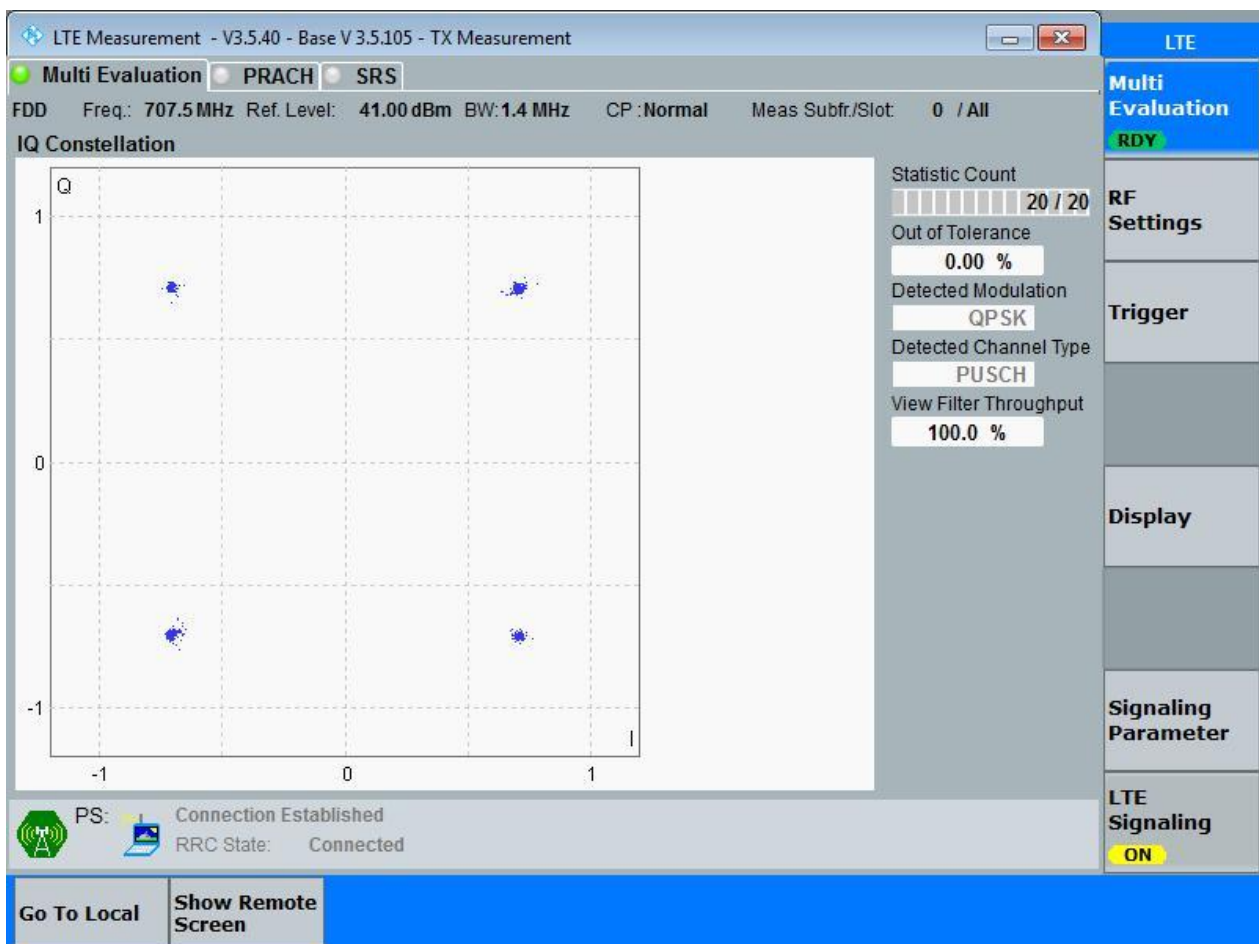
3.1.1 Test Band = BAND12

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

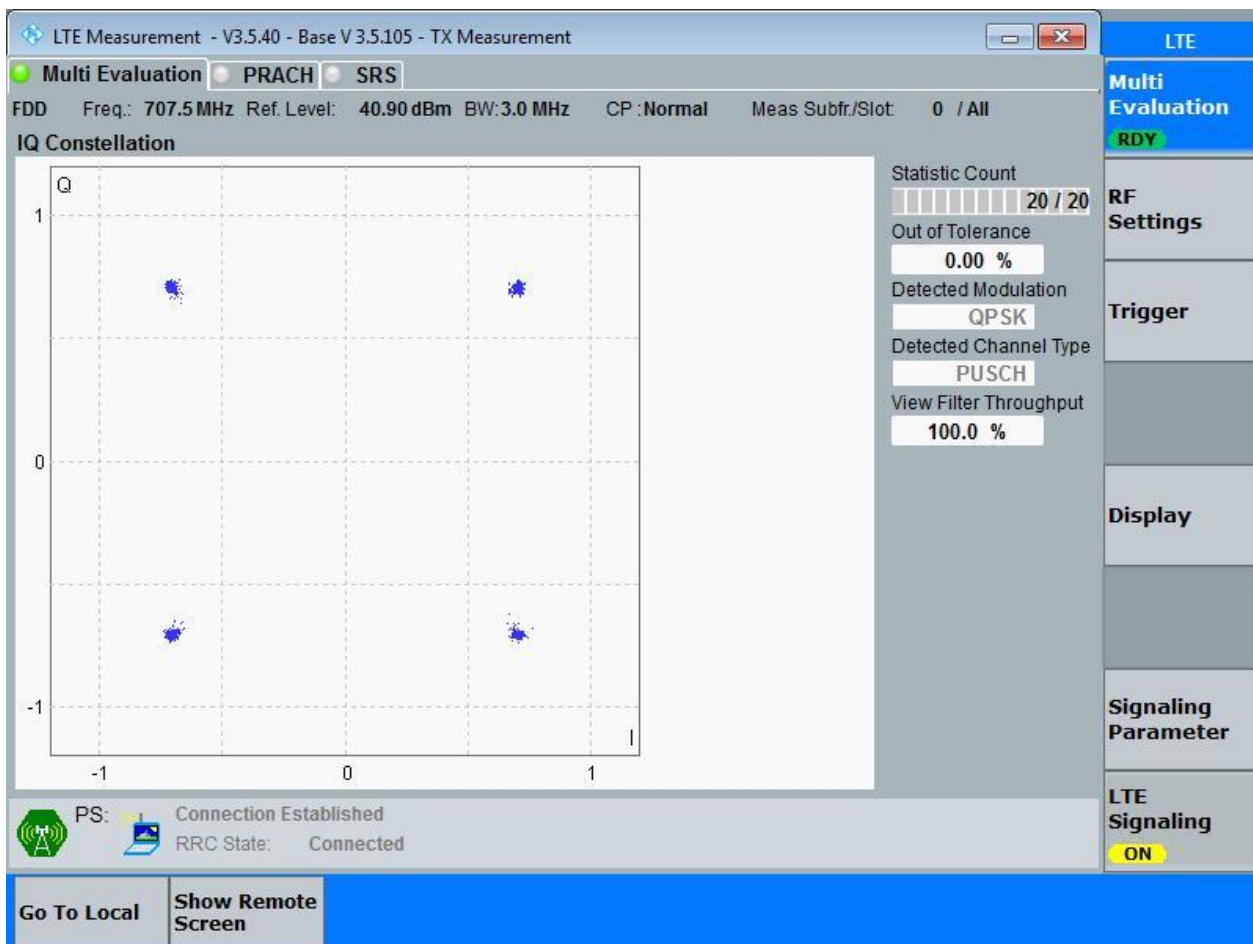
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

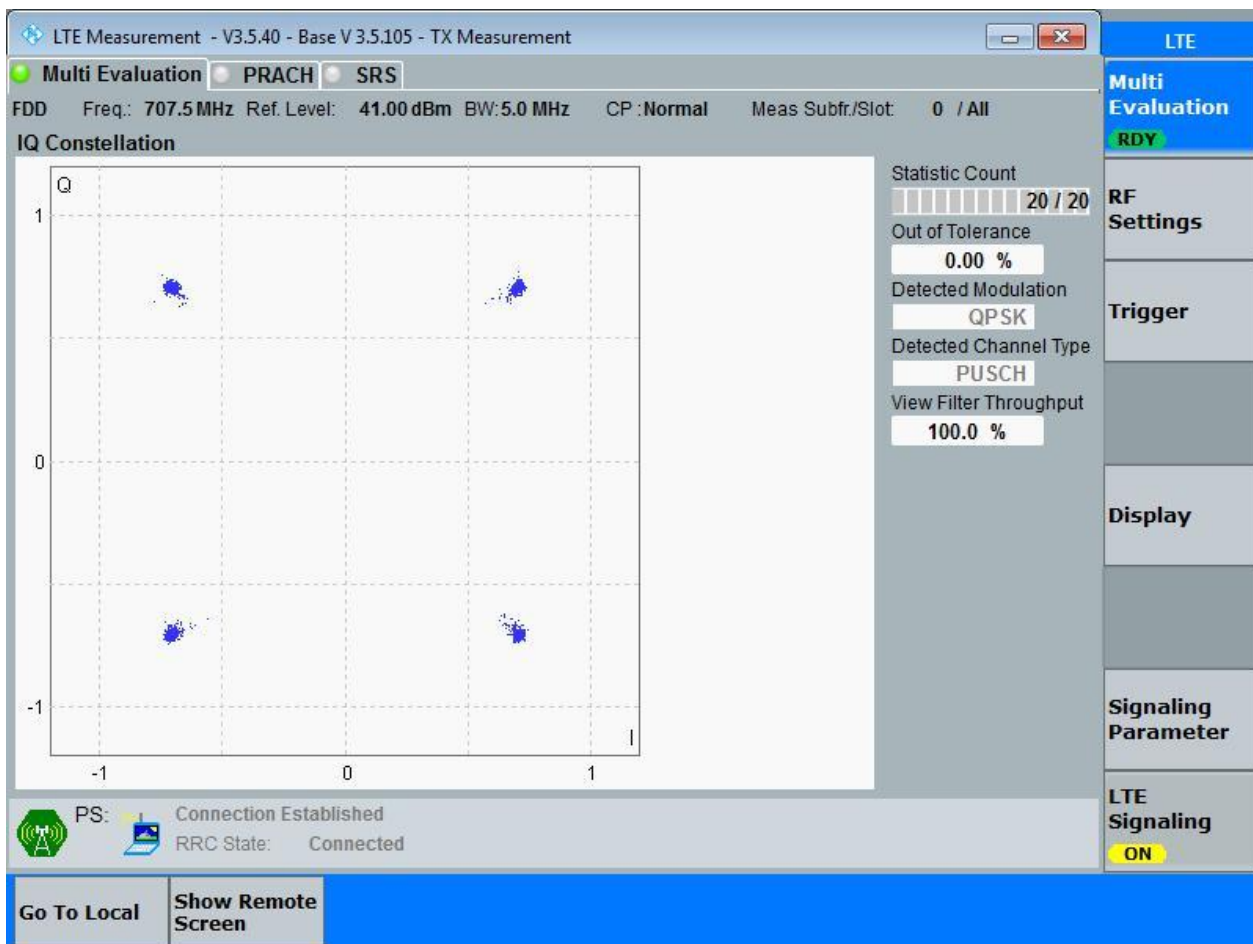
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

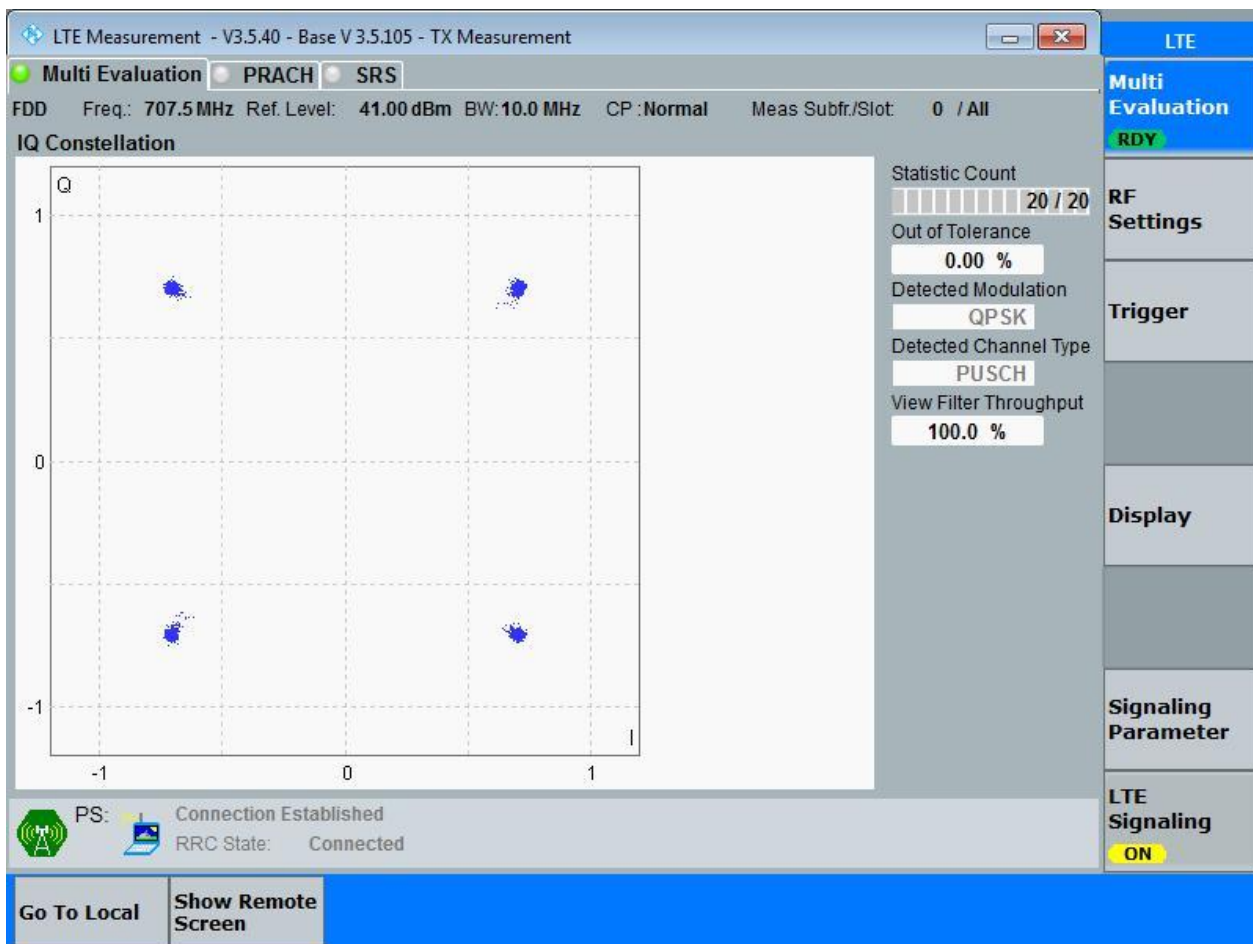
3.1.1.1.3.1.1 Test RB = RB25#0



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

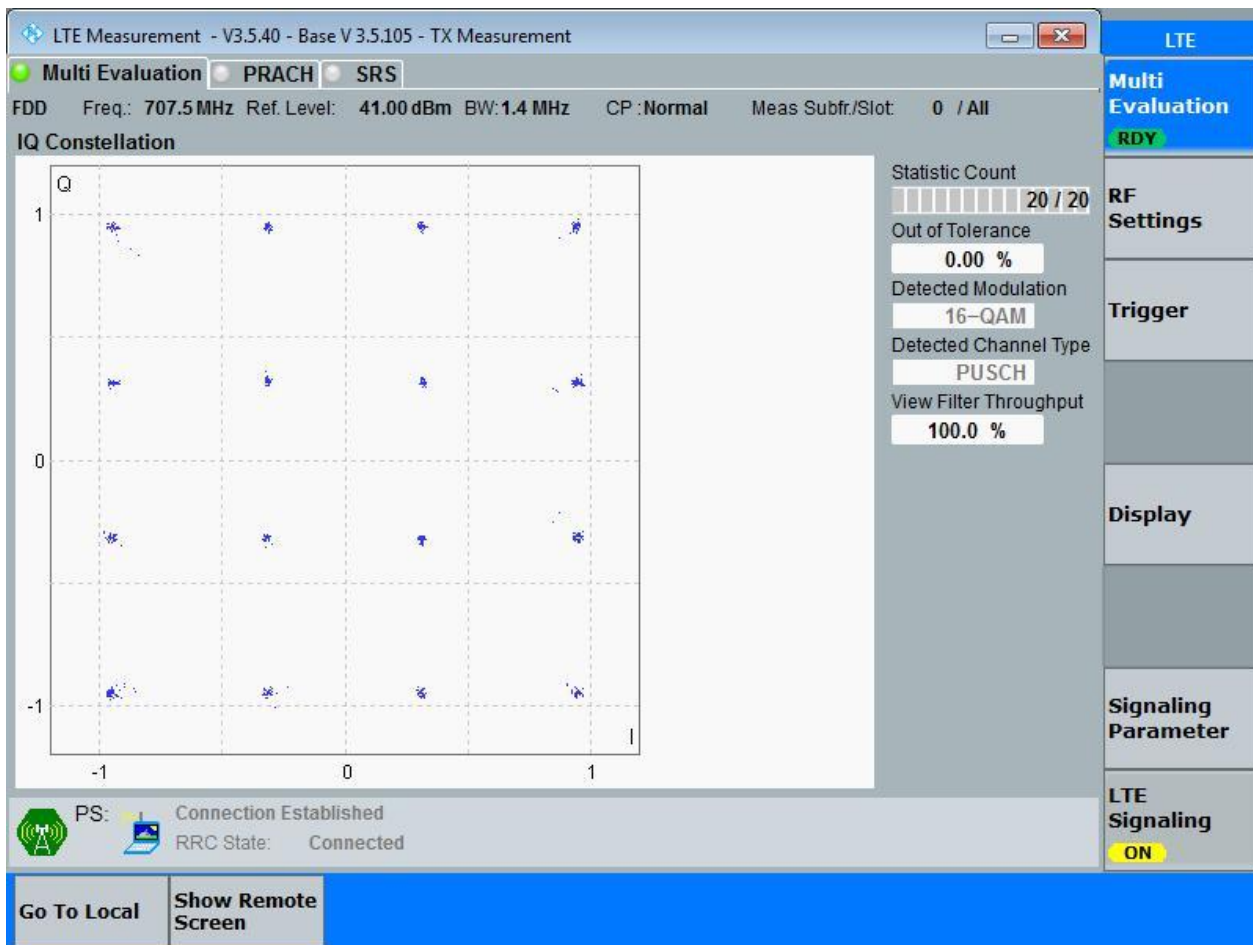


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

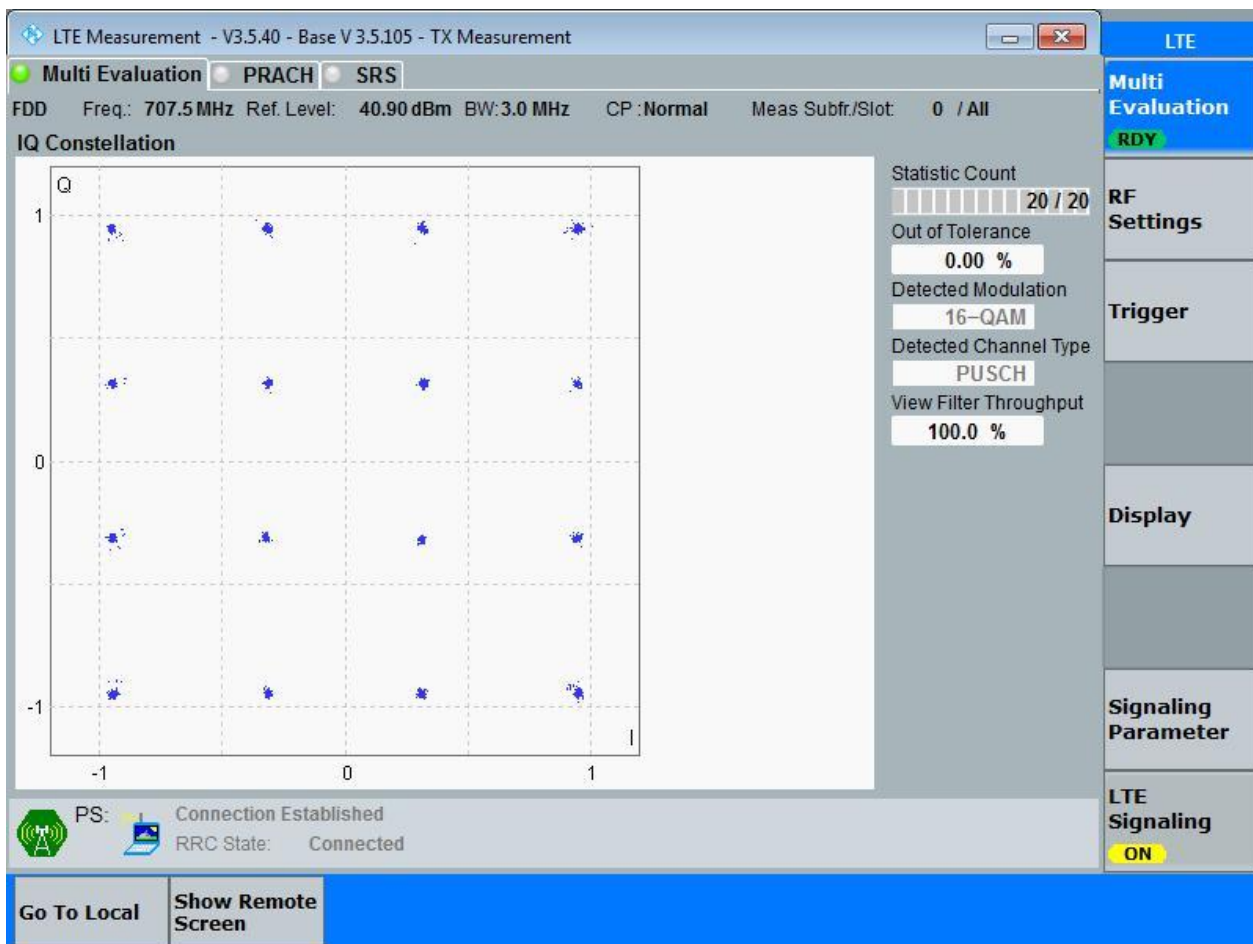
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

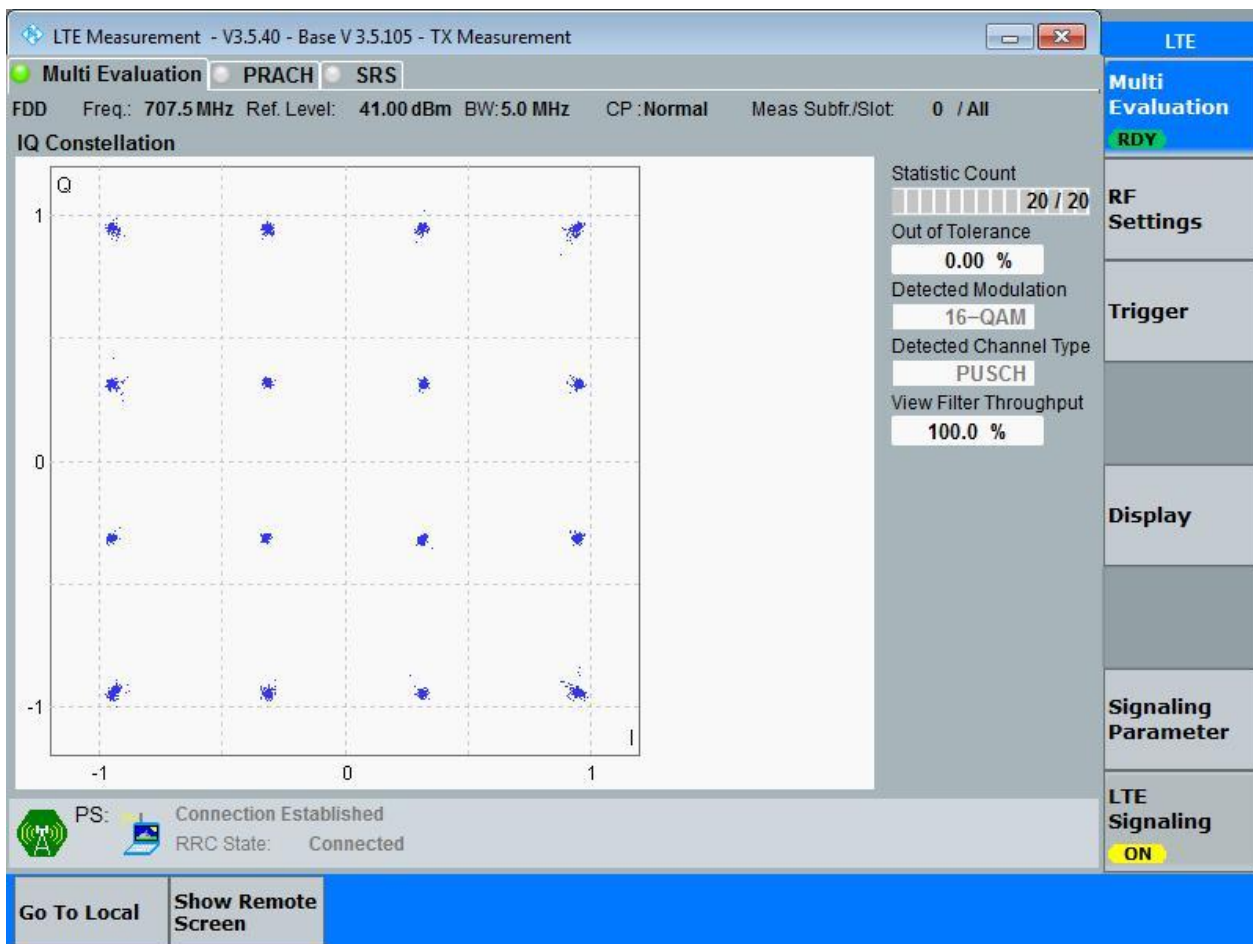
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

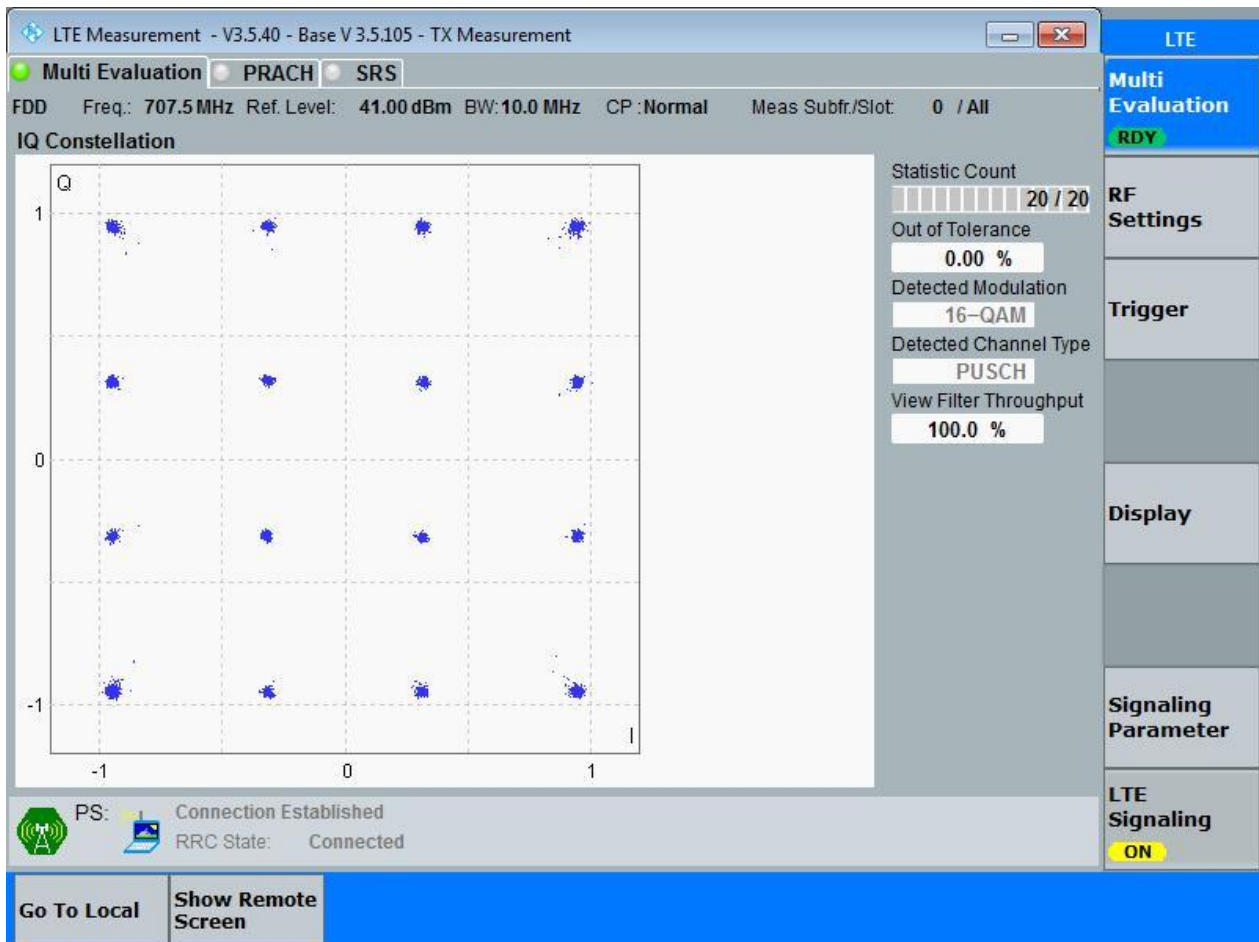
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.24	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.70	2.97	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.70	2.98	Pass
		5	LCH	RB25#0	4.52	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.51	4.95	Pass
		10	LCH	RB50#0	8.95	9.87	Pass
			MCH	RB50#0	8.98	9.89	Pass
			HCH	RB50#0	9.01	9.94	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.24	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.10	1.24	Pass
		3	LCH	RB15#0	2.71	2.97	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.70	2.99	Pass
		5	LCH	RB25#0	4.51	4.97	Pass
			MCH	RB25#0	4.53	4.98	Pass
			HCH	RB25#0	4.52	4.97	Pass
		10	LCH	RB50#0	8.97	9.79	Pass
			MCH	RB50#0	9.00	9.96	Pass
			HCH	RB50#0	9.00	9.96	Pass



Part II - Test Plots

4.1 For LTE

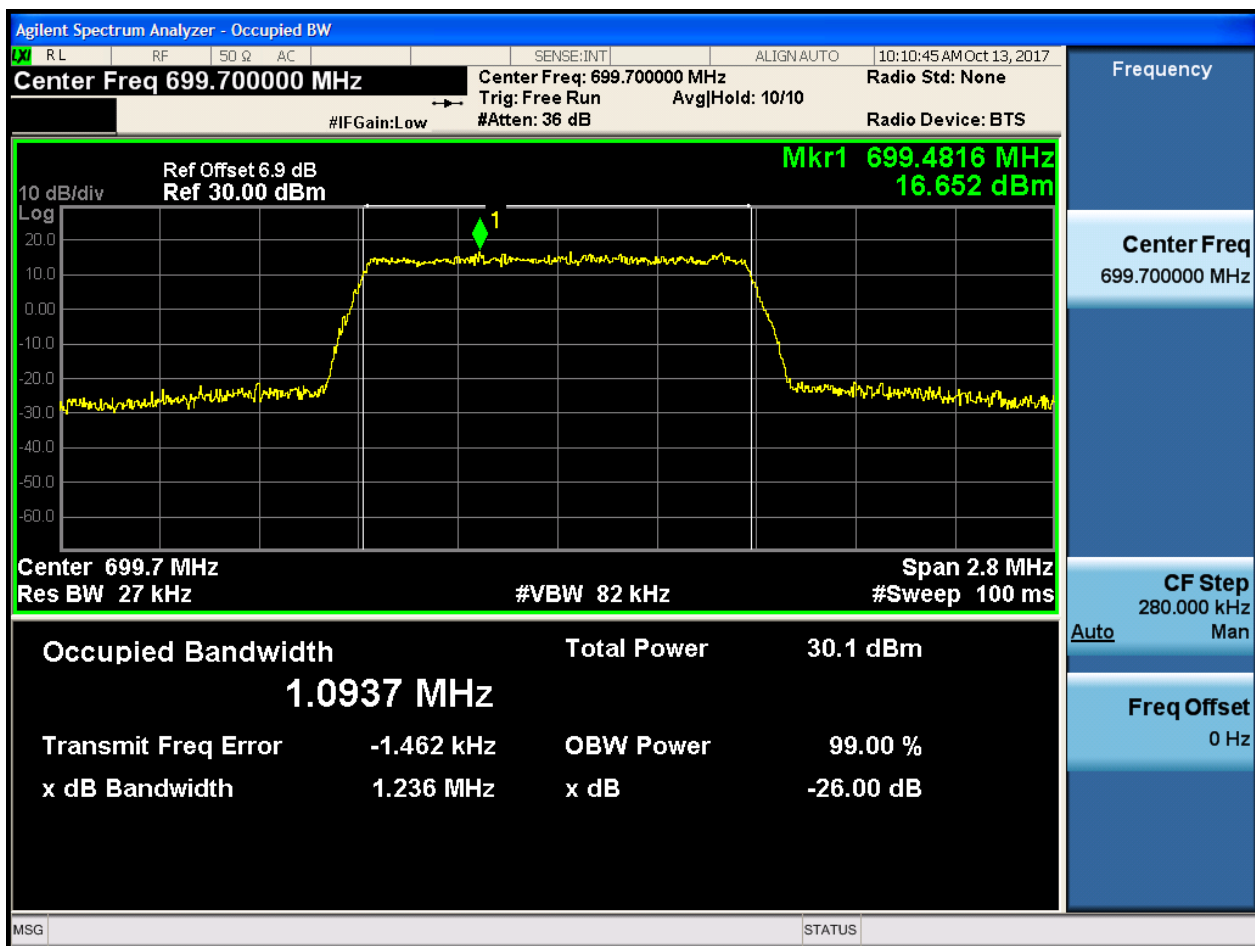
4.1.1 Test Band = BAND12

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

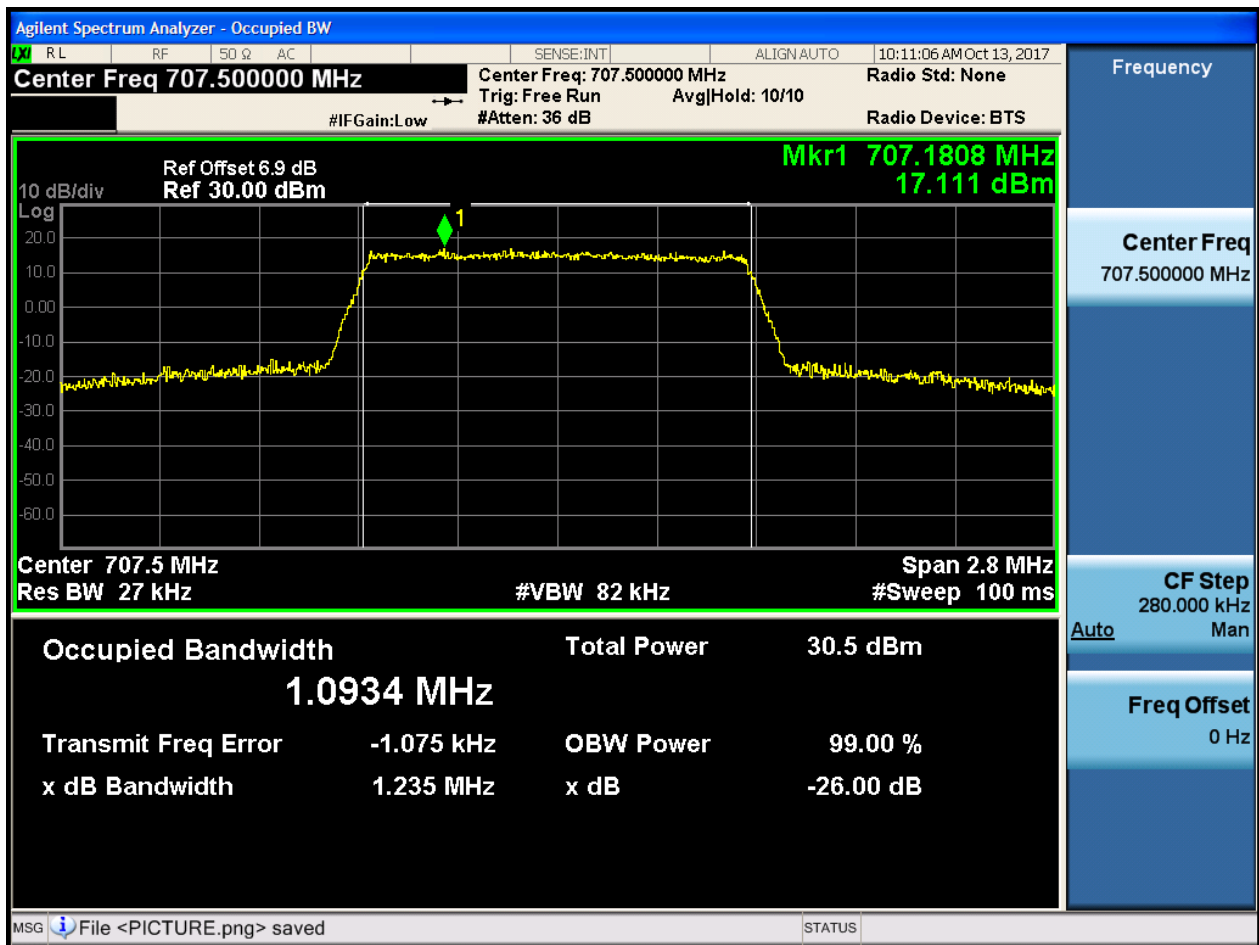
4.1.1.1.1.1.1 Test RB = RB6#0





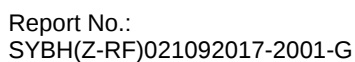
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB6#0





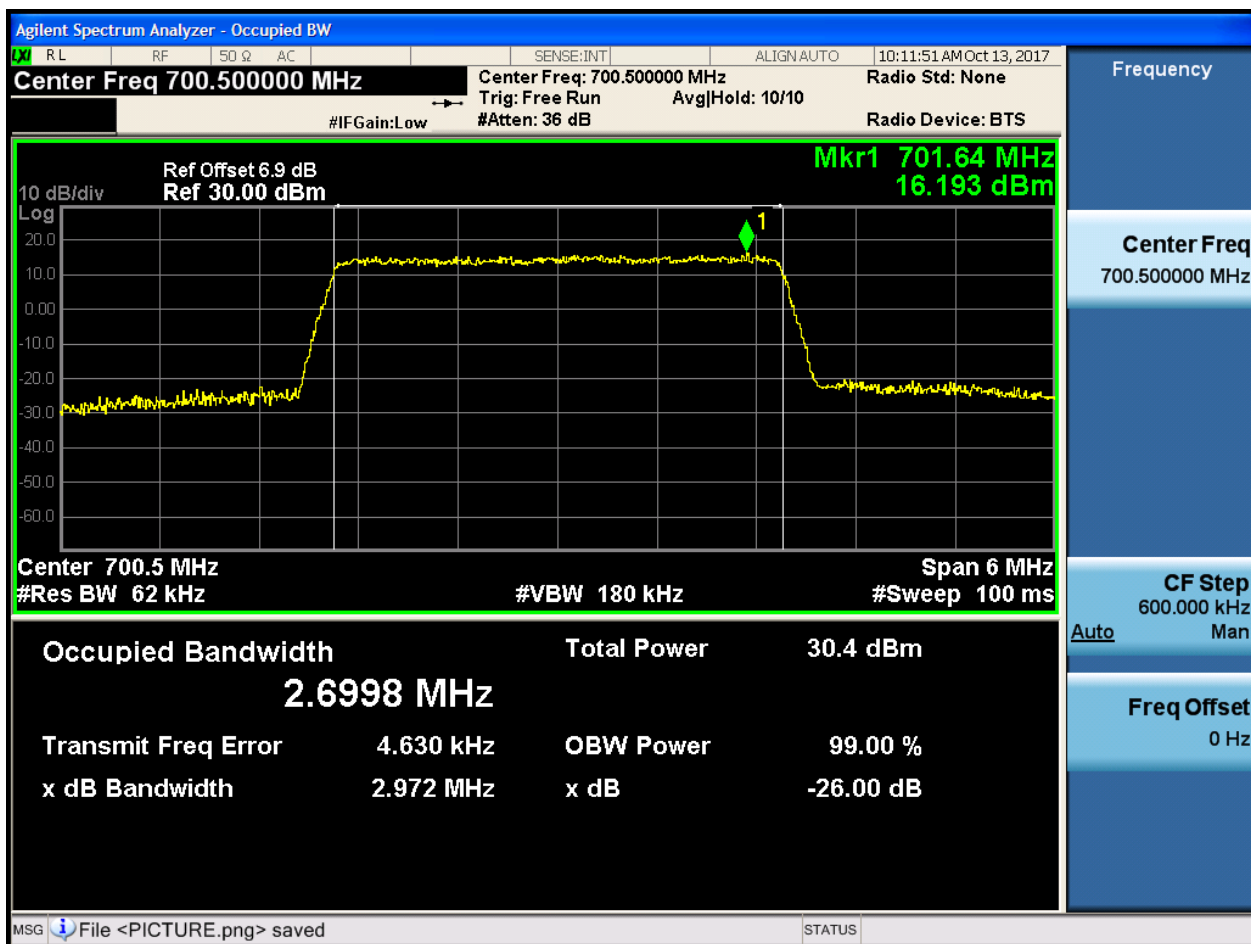
4.1.1.1.1.3.1 Test RB = RB6#0



4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

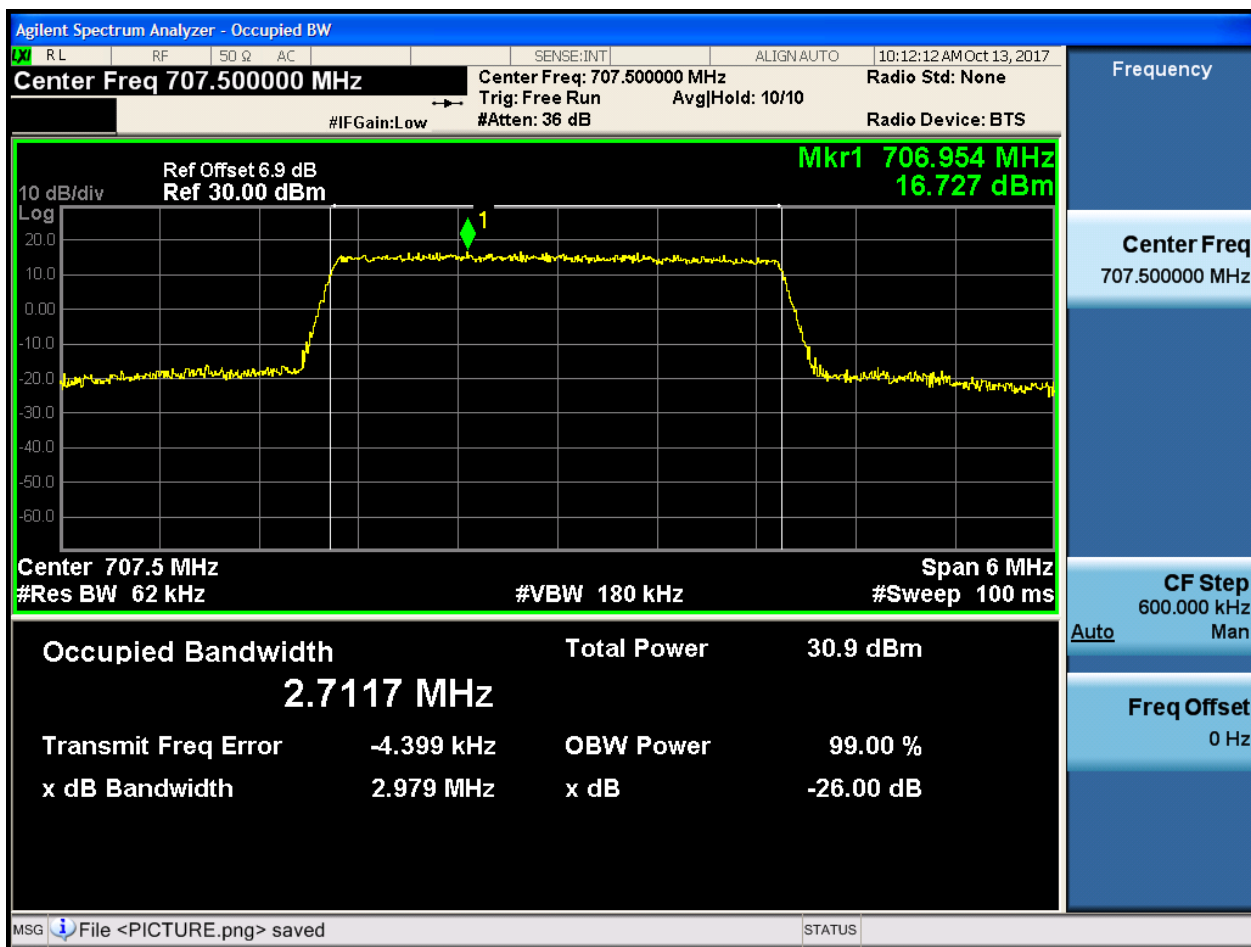
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

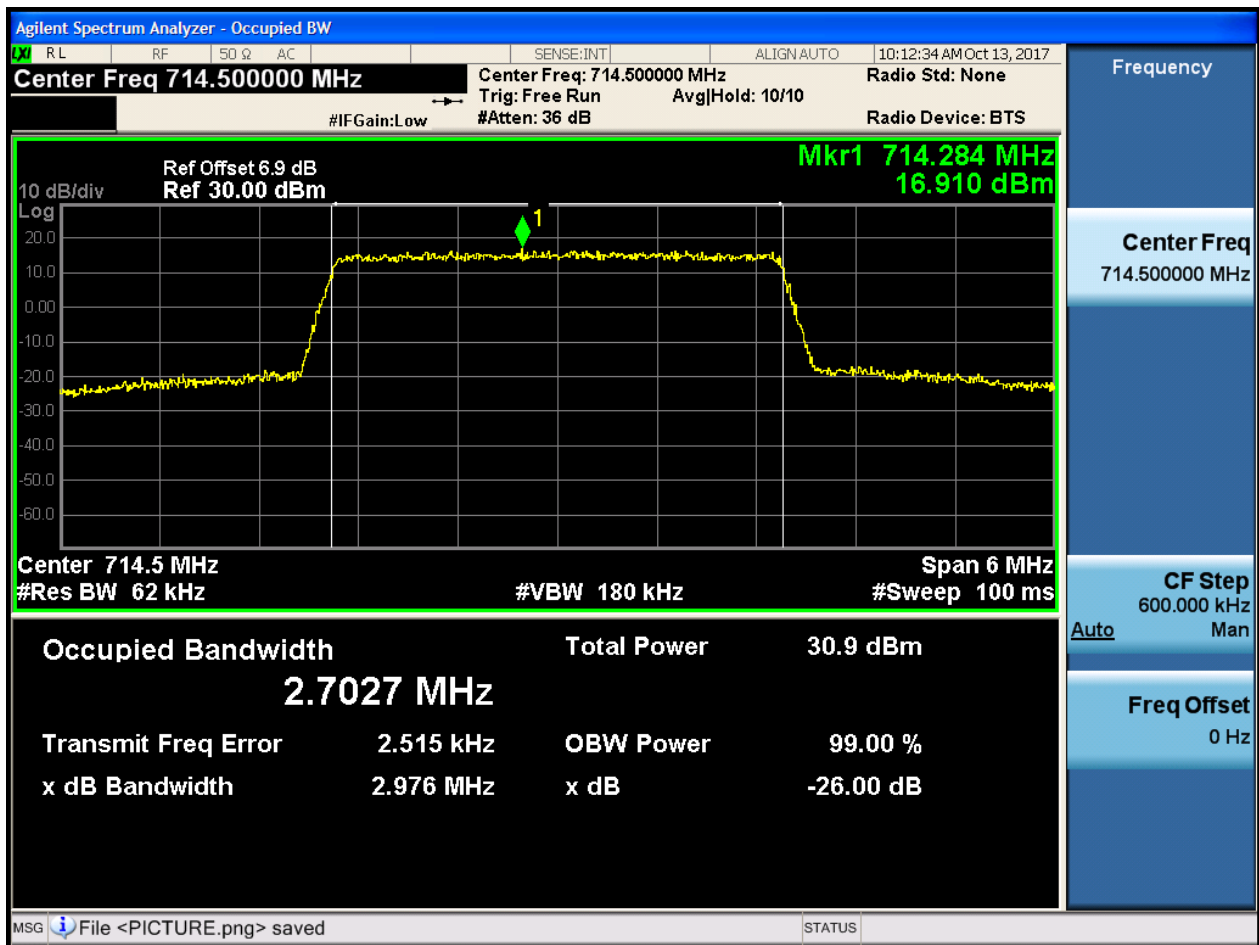
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

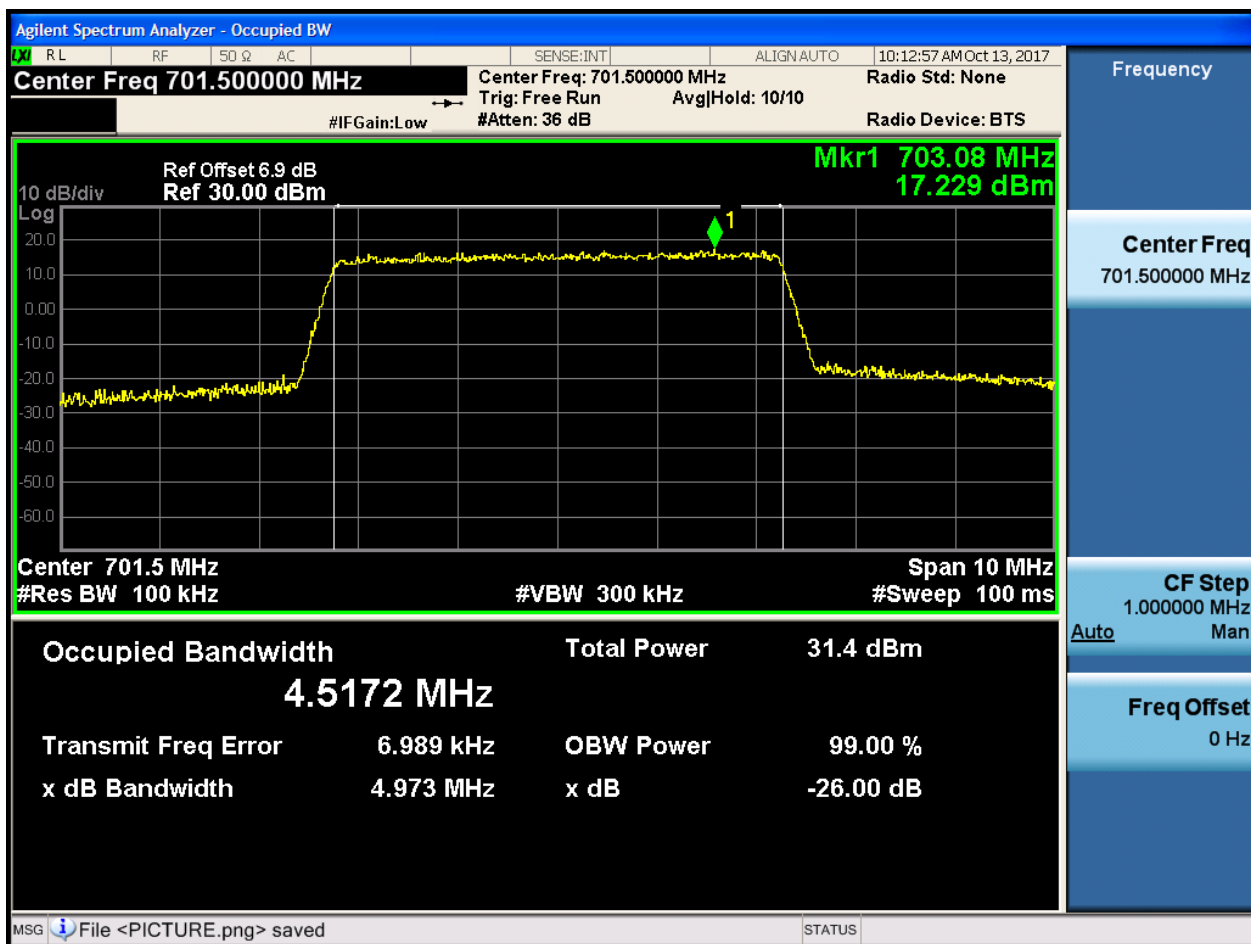




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

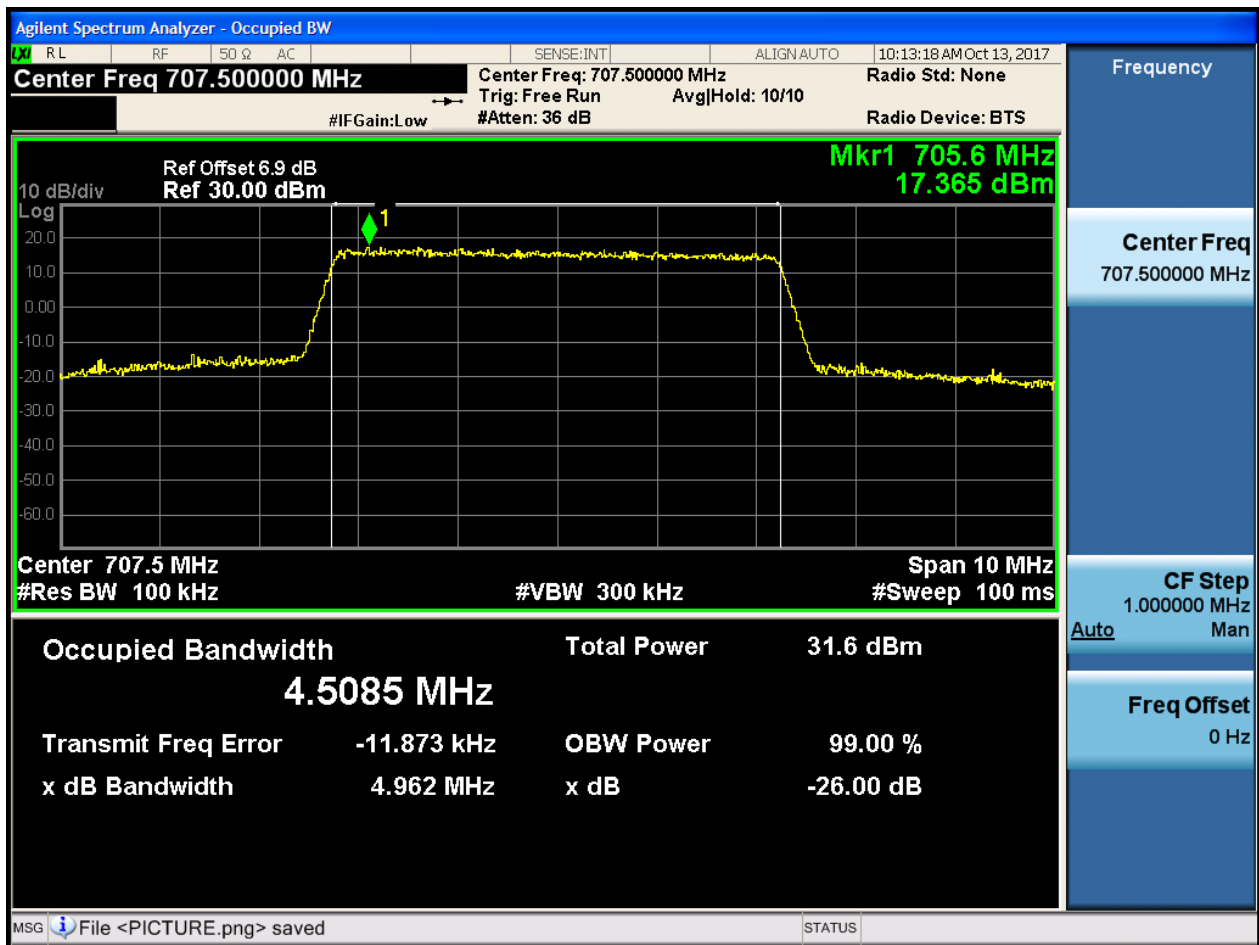
4.1.1.1.3.1.1 Test RB = RB25#0





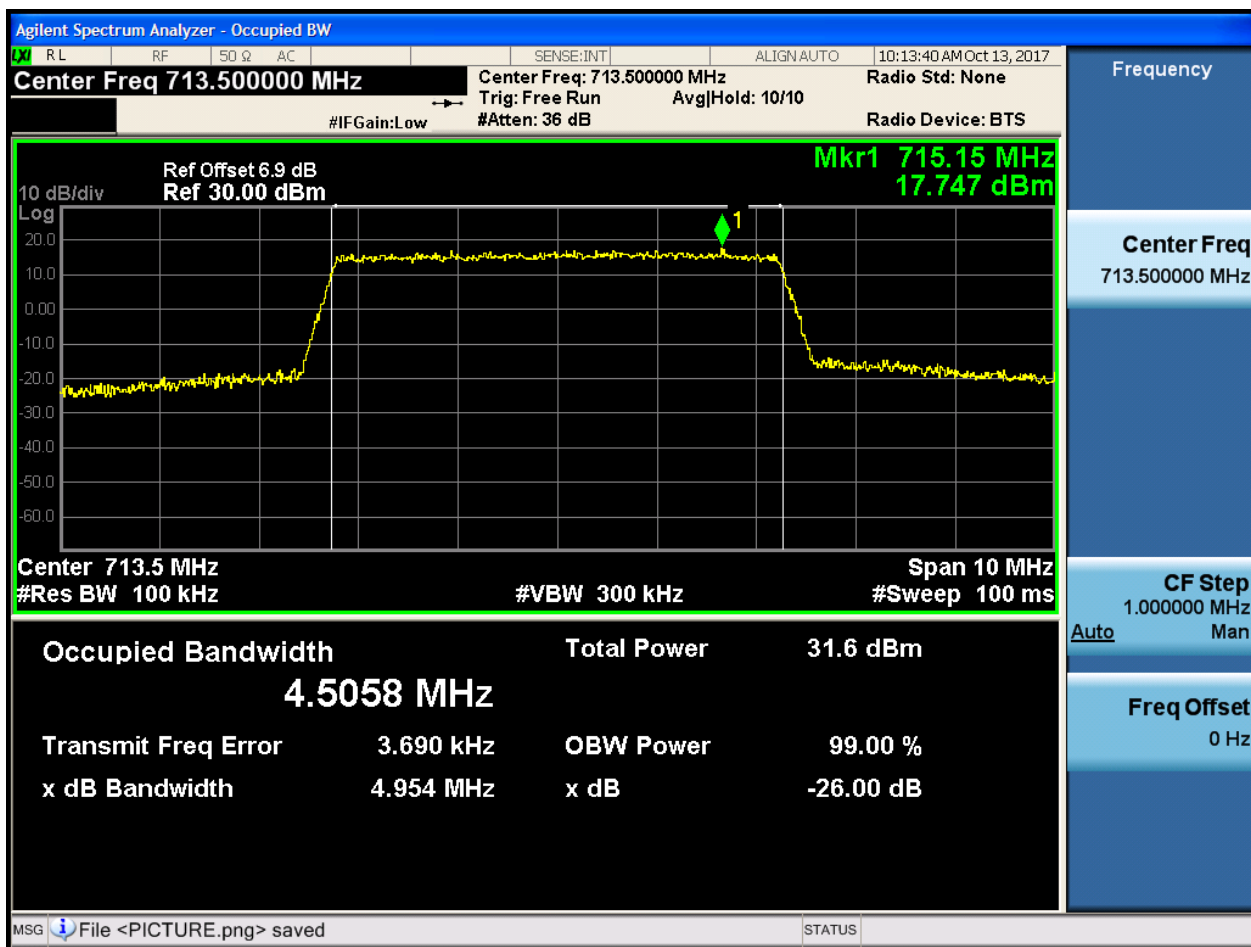
4.1.1.1.3.2 Test Channel = MCH

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

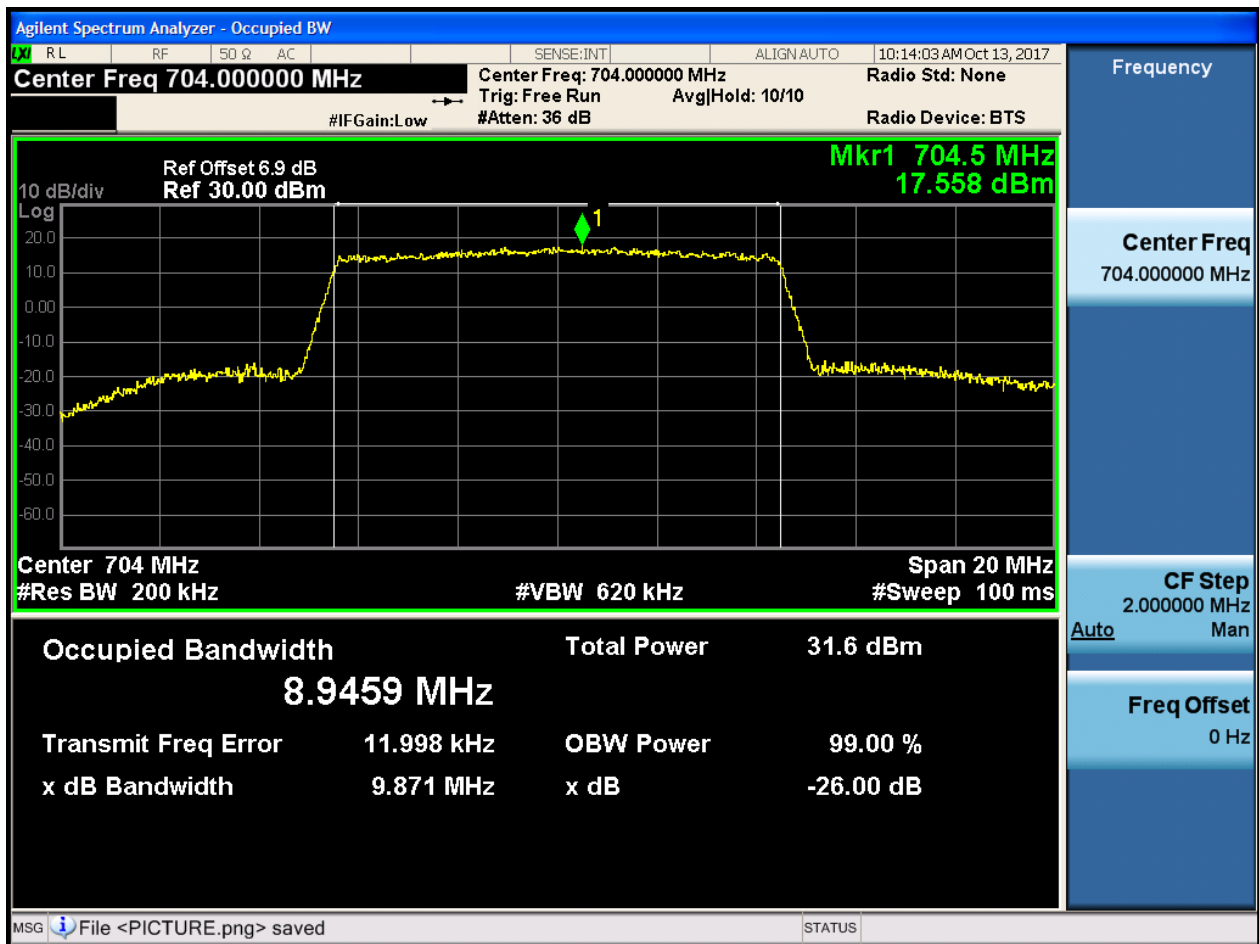




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

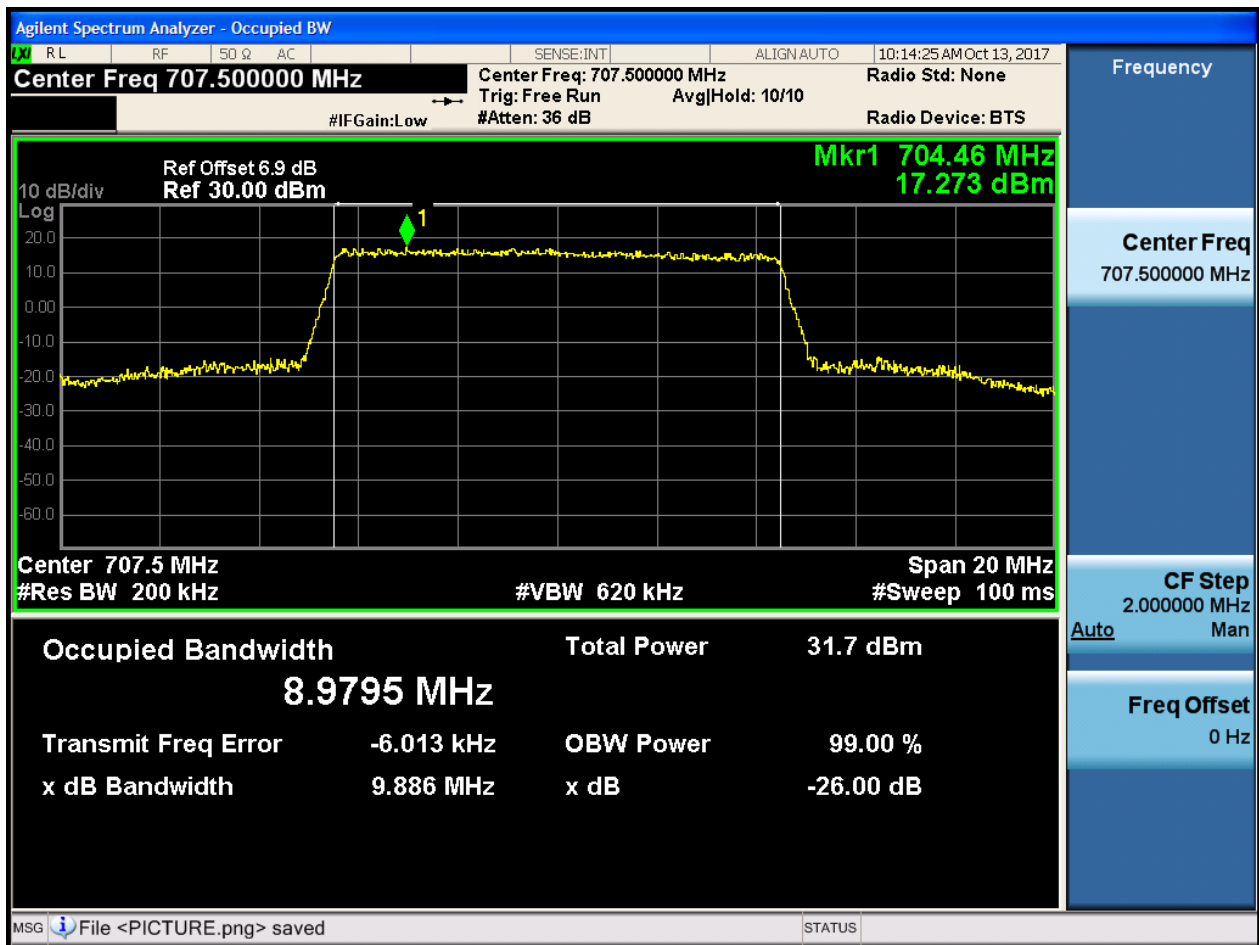
4.1.1.1.4.1.1 Test RB = RB50#0





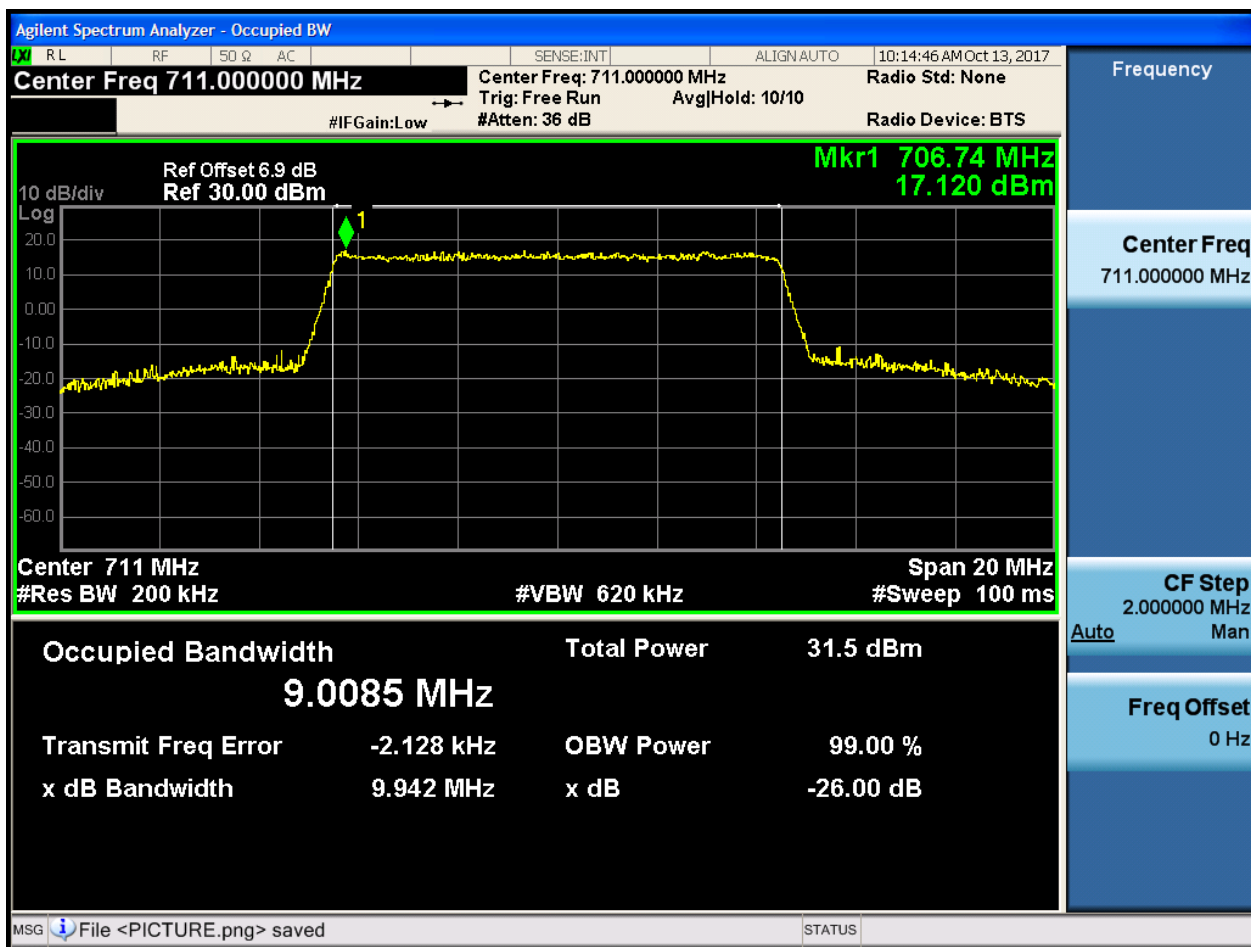
4.1.1.1.4.2 Test Channel = MCH

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



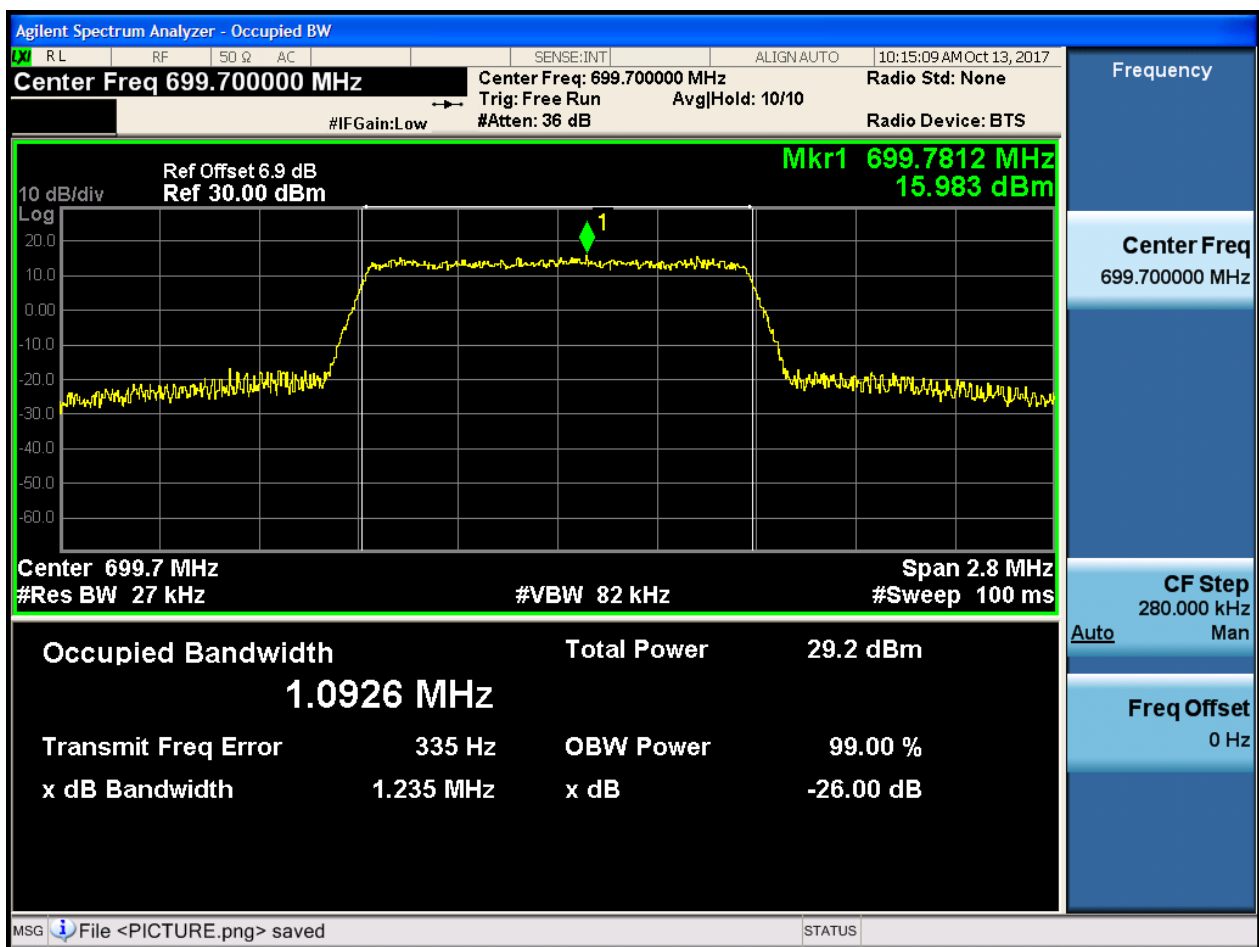


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

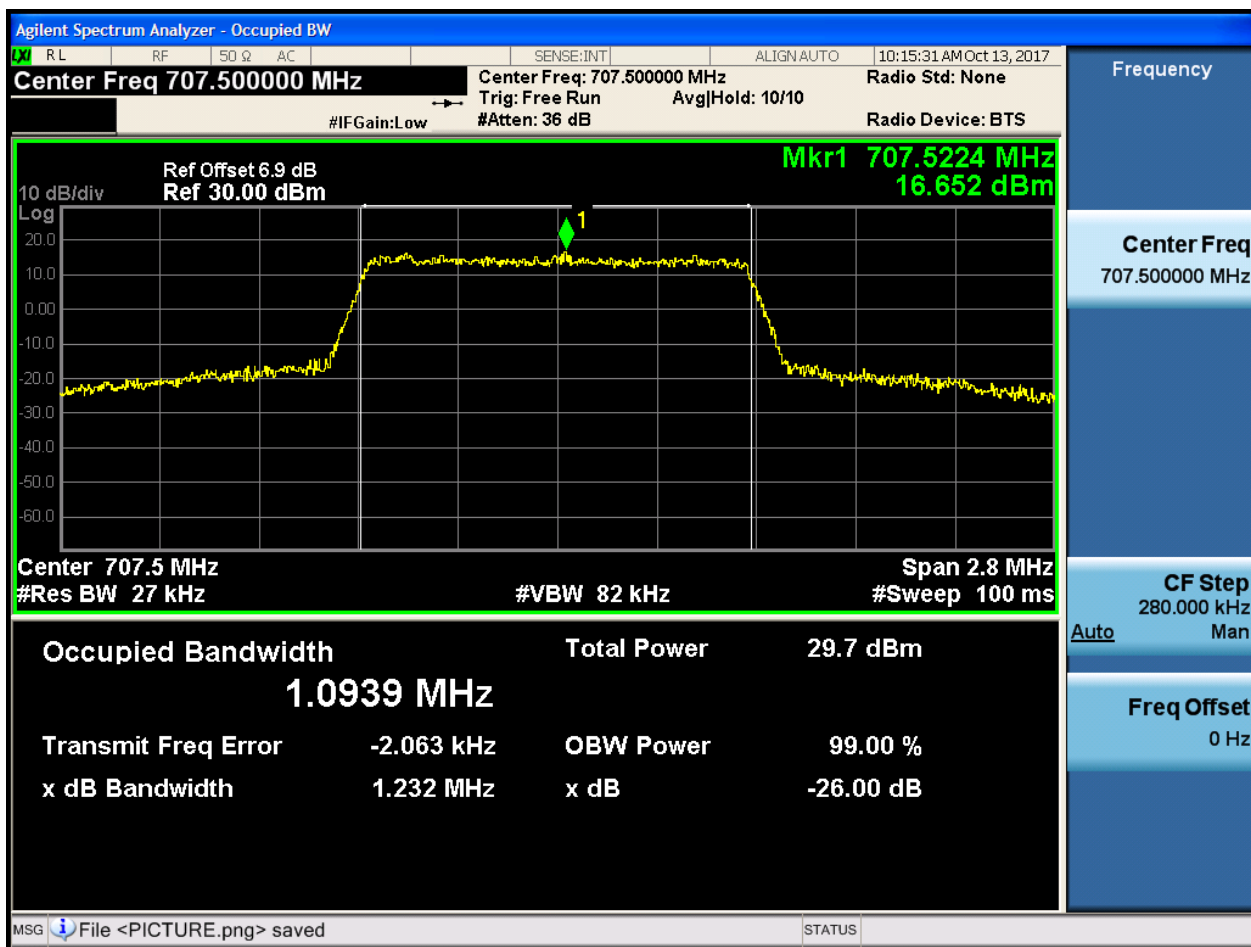
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

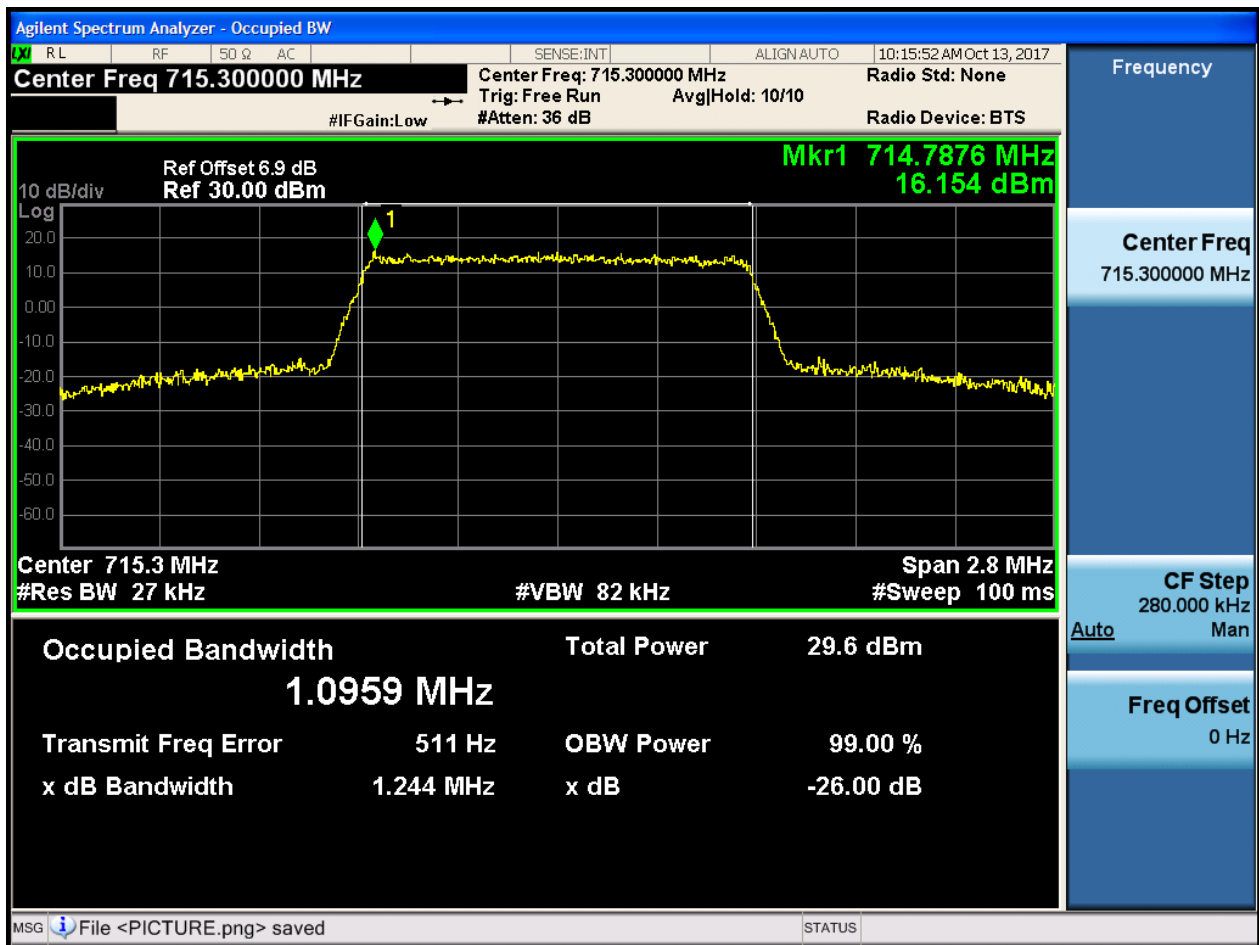
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

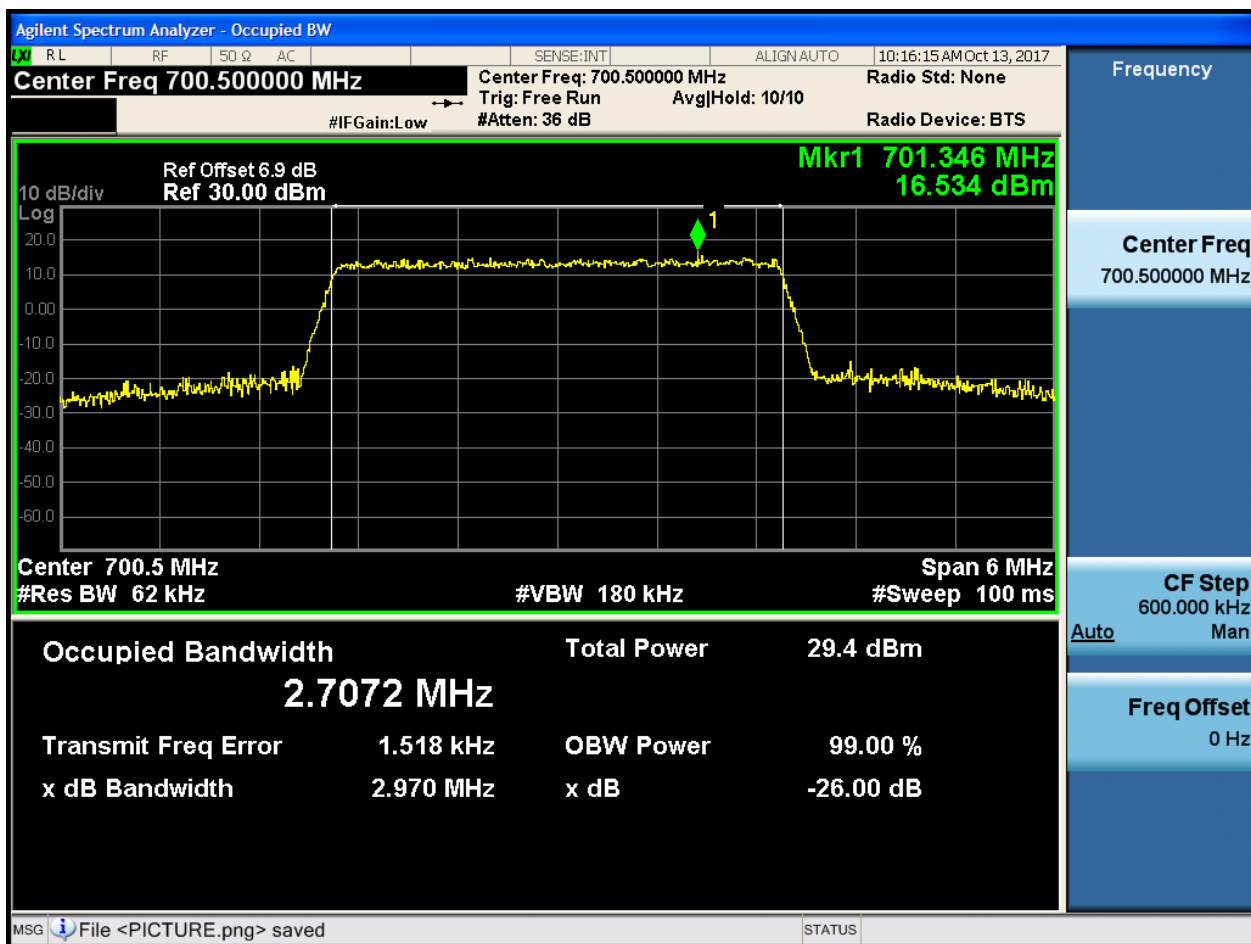




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

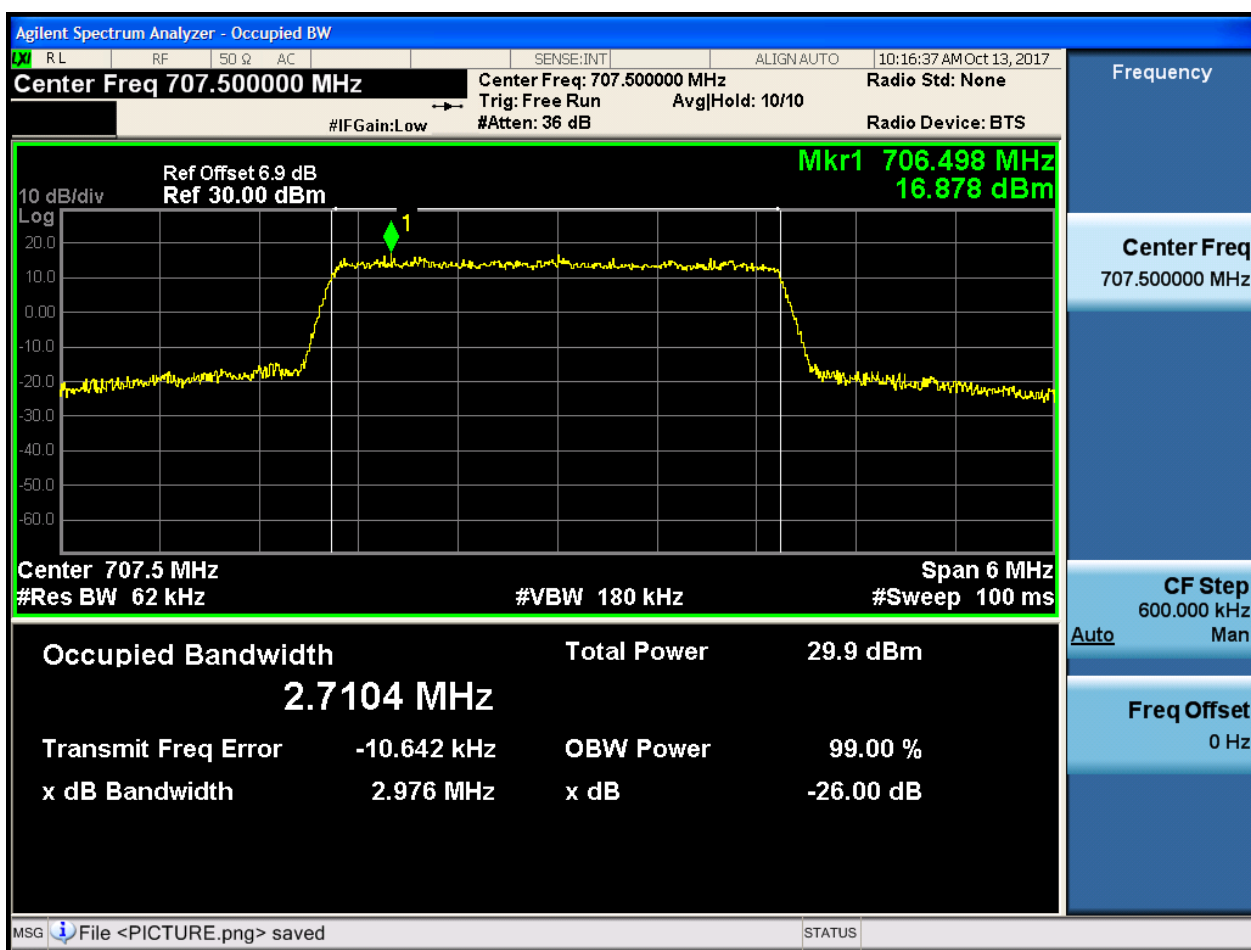
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

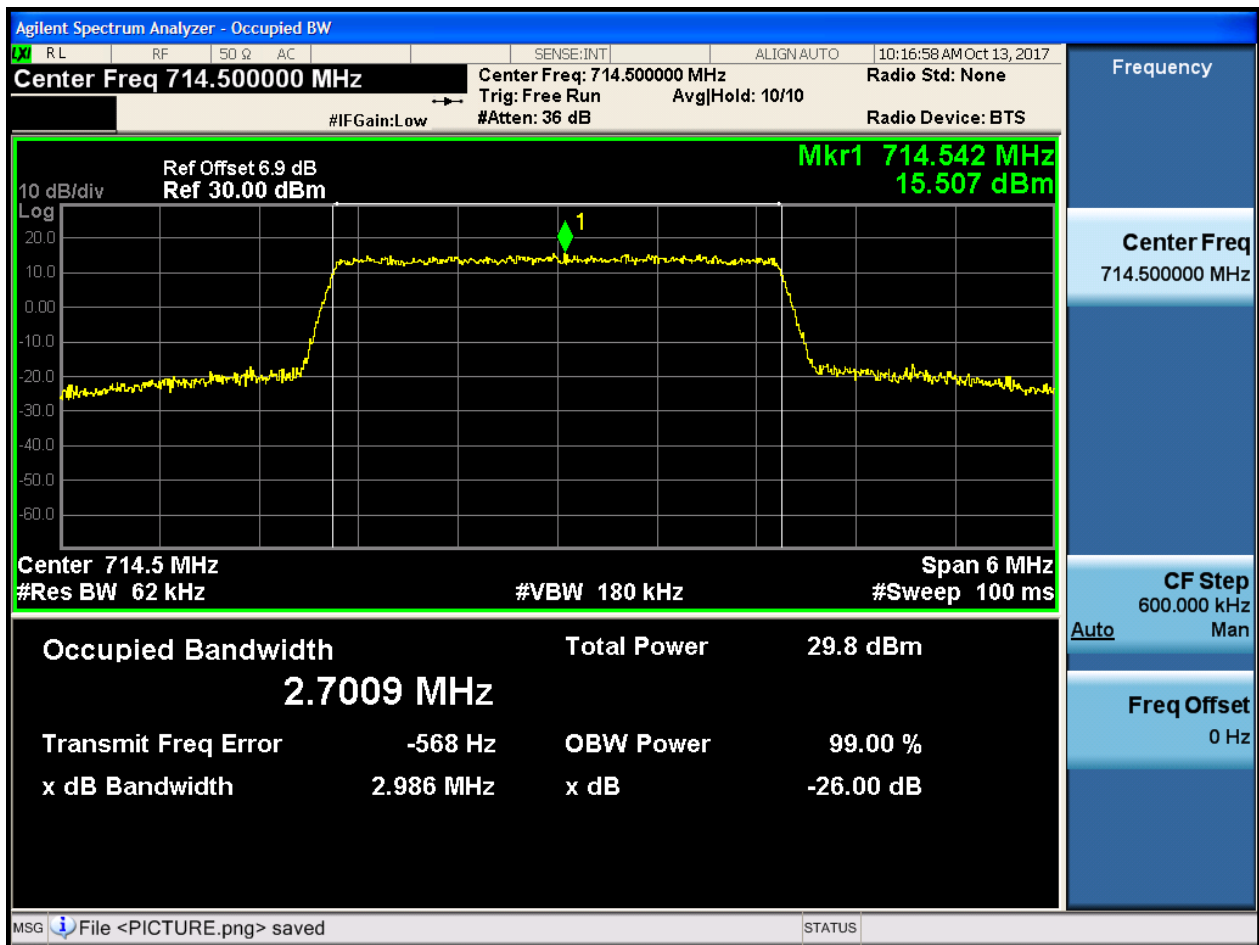
4.1.1.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

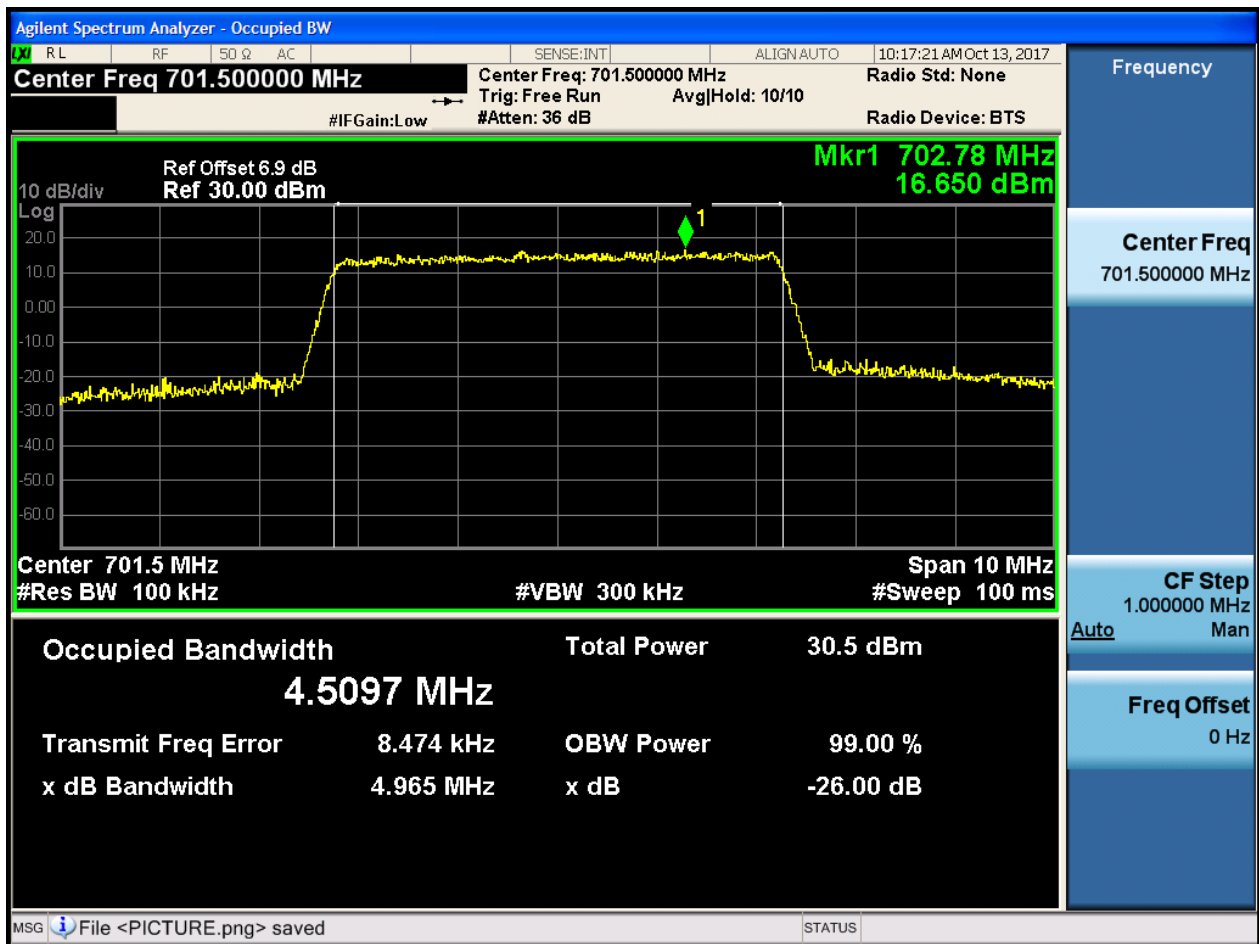




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

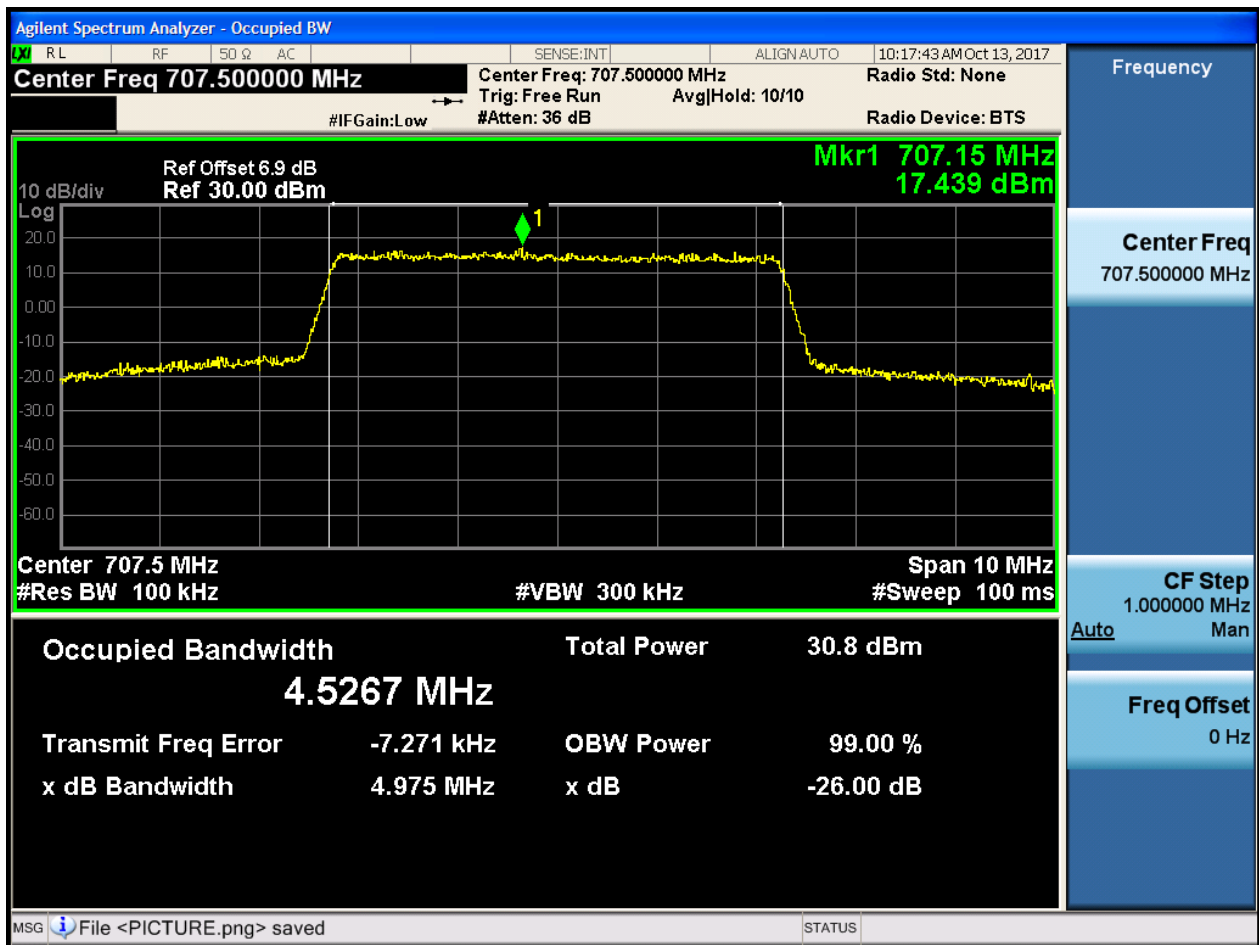
4.1.1.2.3.1.1 Test RB = RB25#0





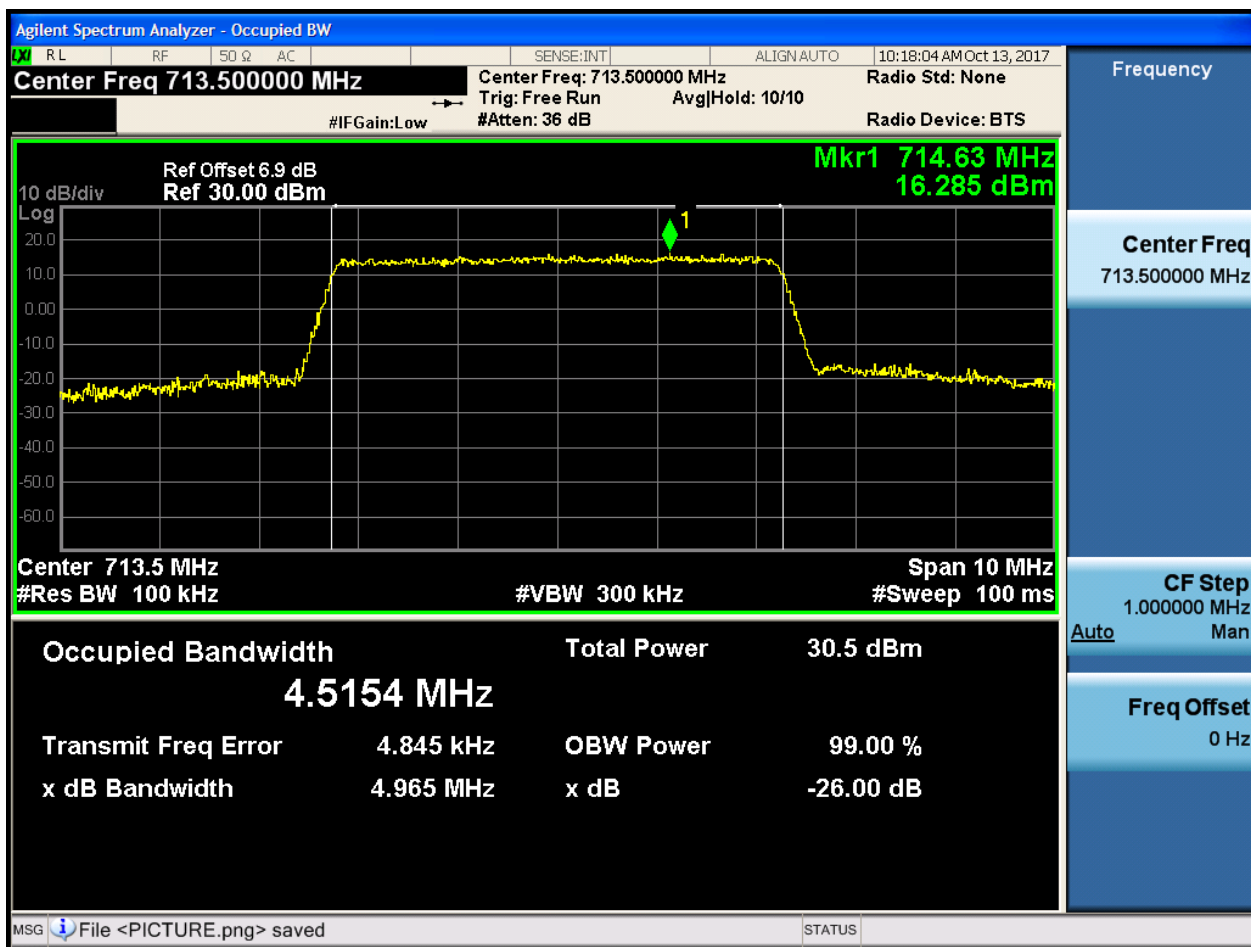
4.1.1.2.3.2 Test Channel = MCH

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

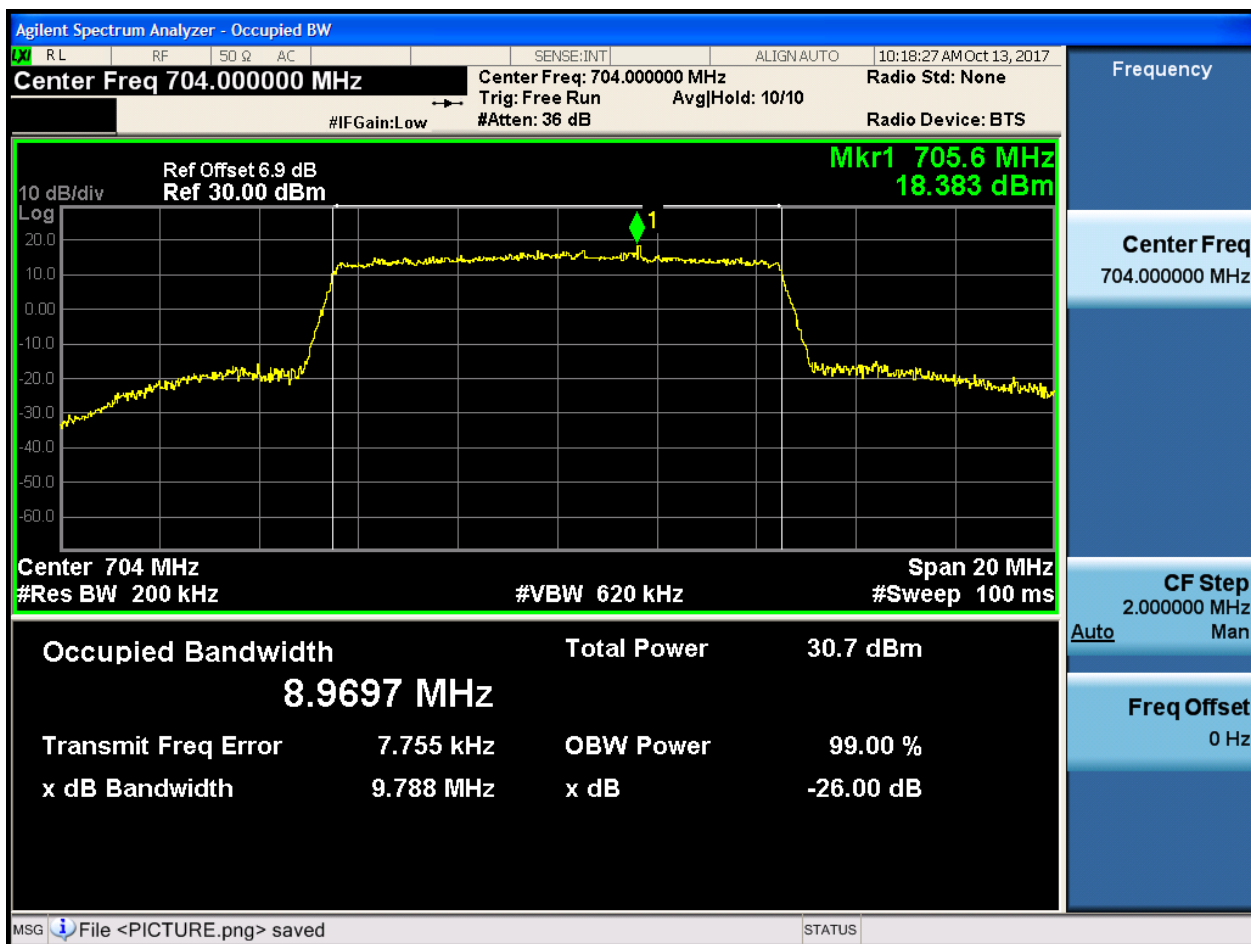




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

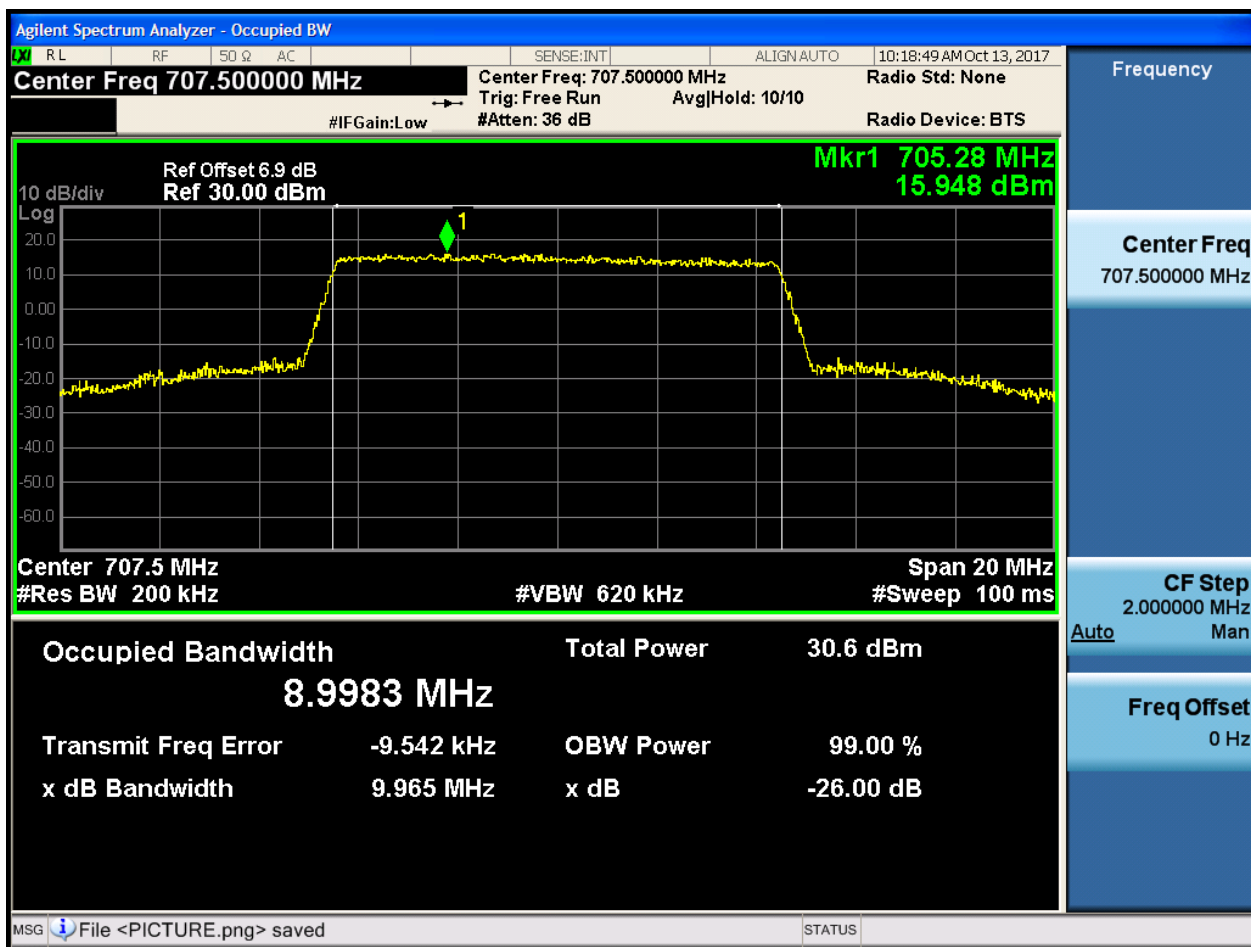
4.1.1.2.4.1.1 Test RB = RB50#0





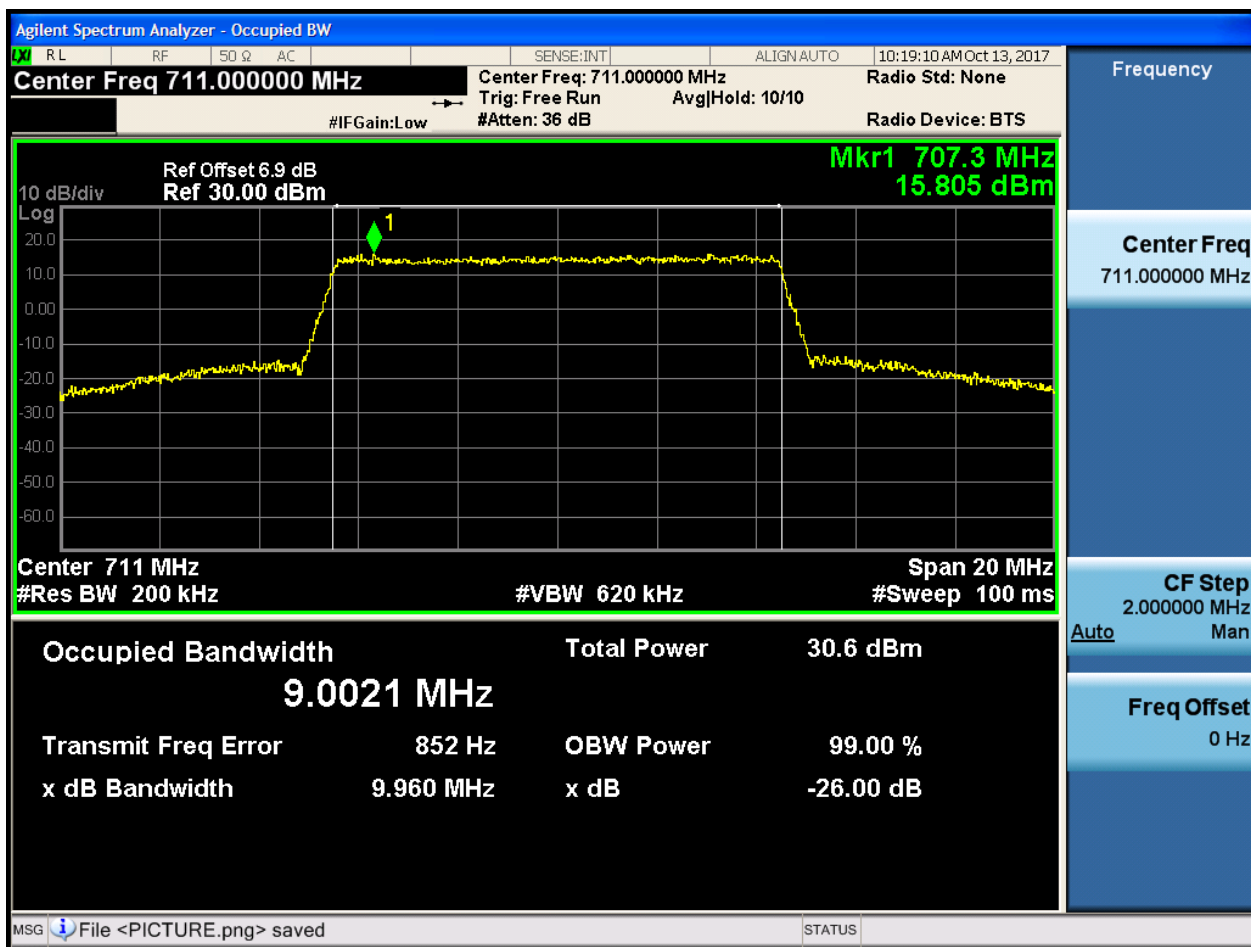
4.1.1.2.4.2 Test Channel = MCH

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

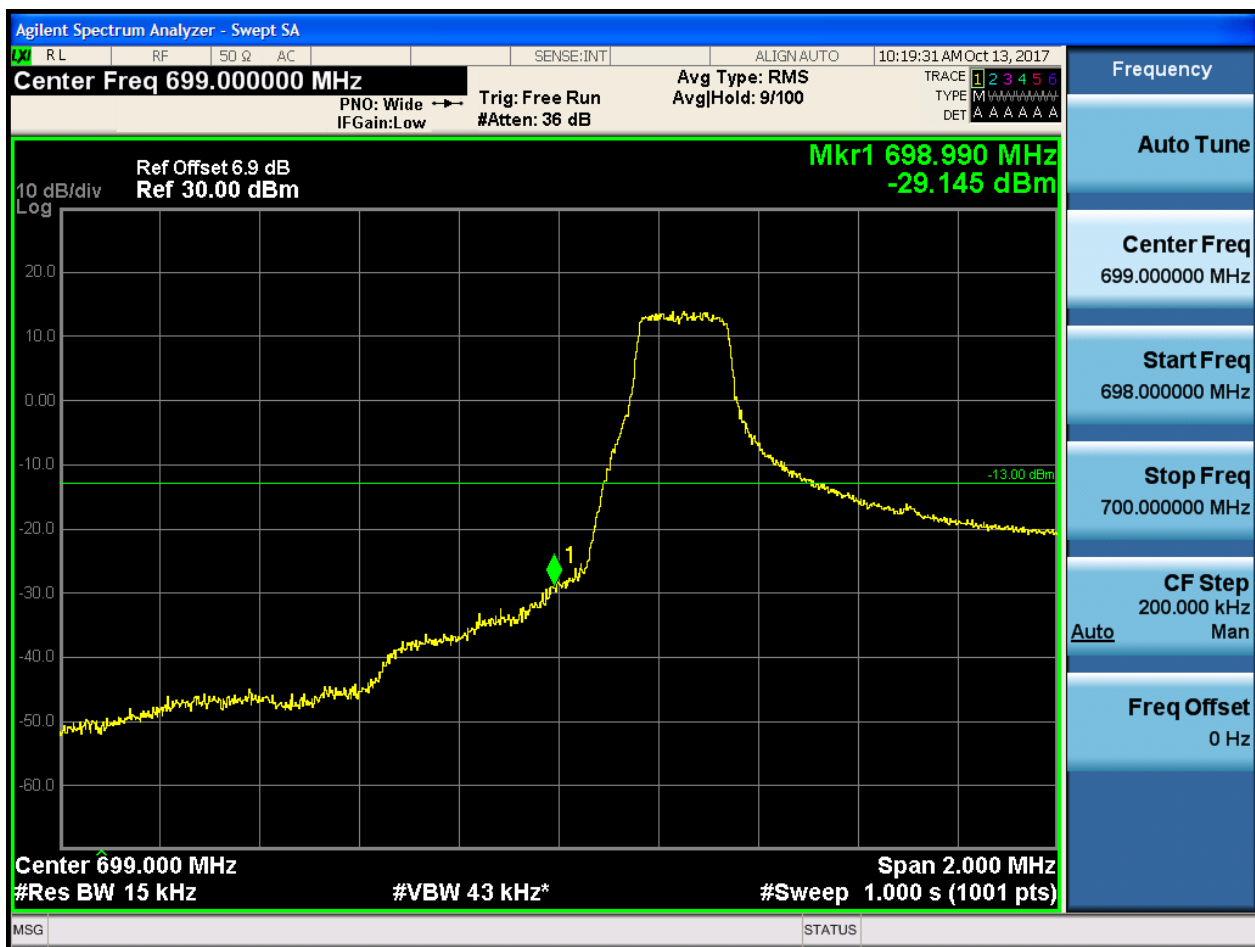
5.1.1 Test Band = BAND12

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





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 698.390 MHz
-37.896 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:20:02 AM Oct 13, 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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-34.089 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

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 10:20:17 AM Oct 13, 2017

Center Freq 699.000000 MHz 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 6.9 dB
Ref 30.00 dBm

Mkr1 698.900 MHz
-35.172 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

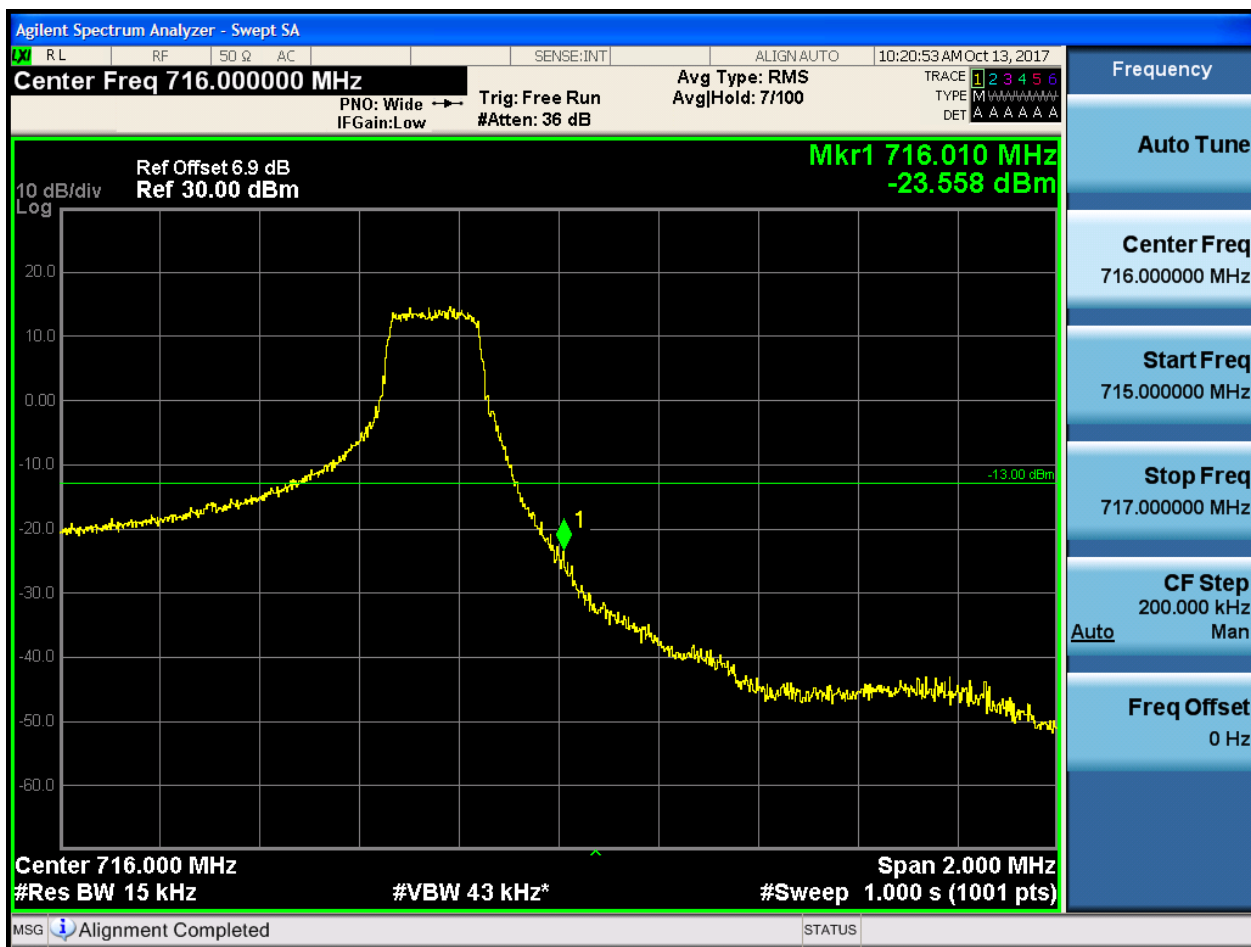
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.1.2.2 Test RB = RB1#5



[illegible]



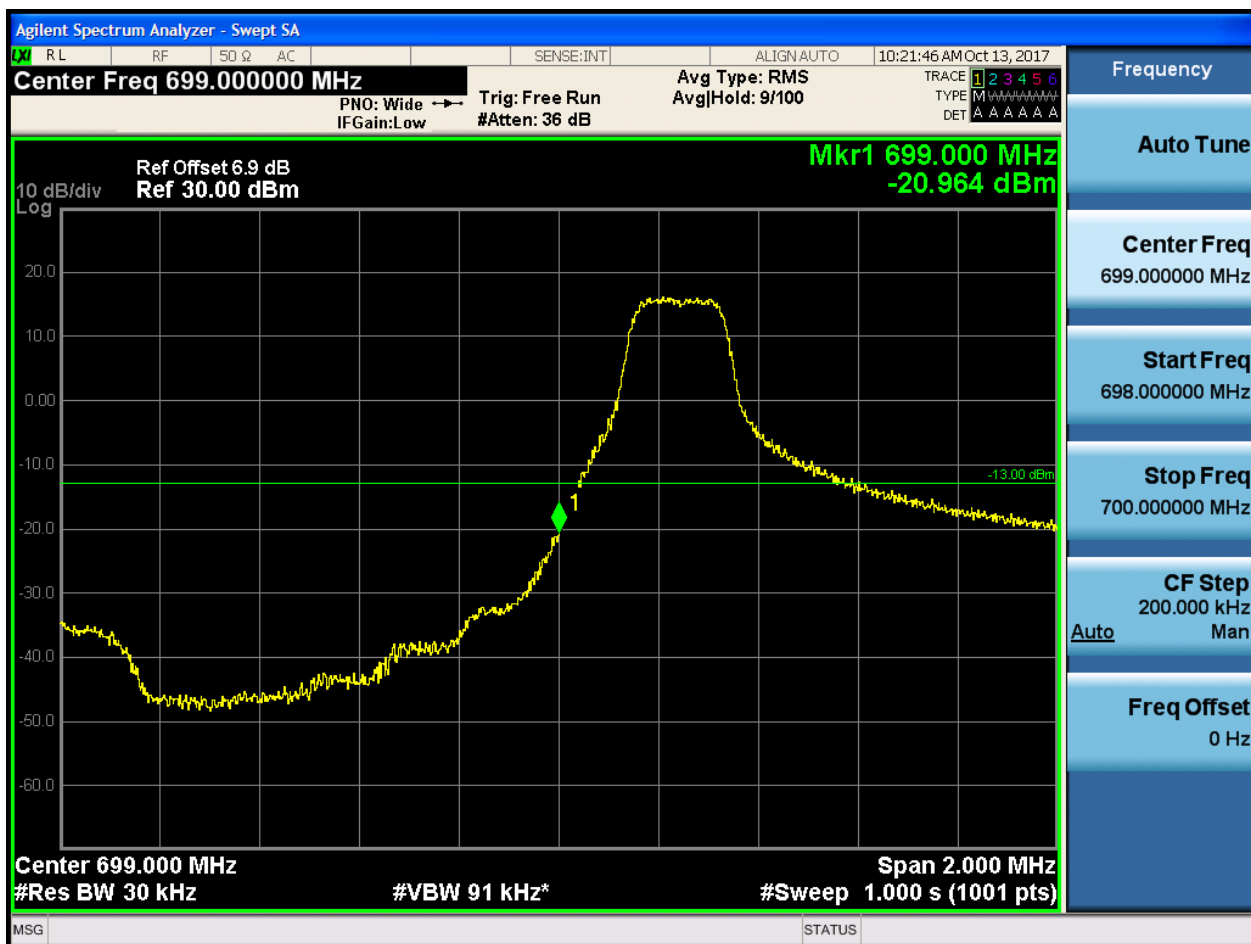
5.1.1.1.2.4 Test RB = RB6#0



5.1.1.1.2 Test Bandwidth = 3

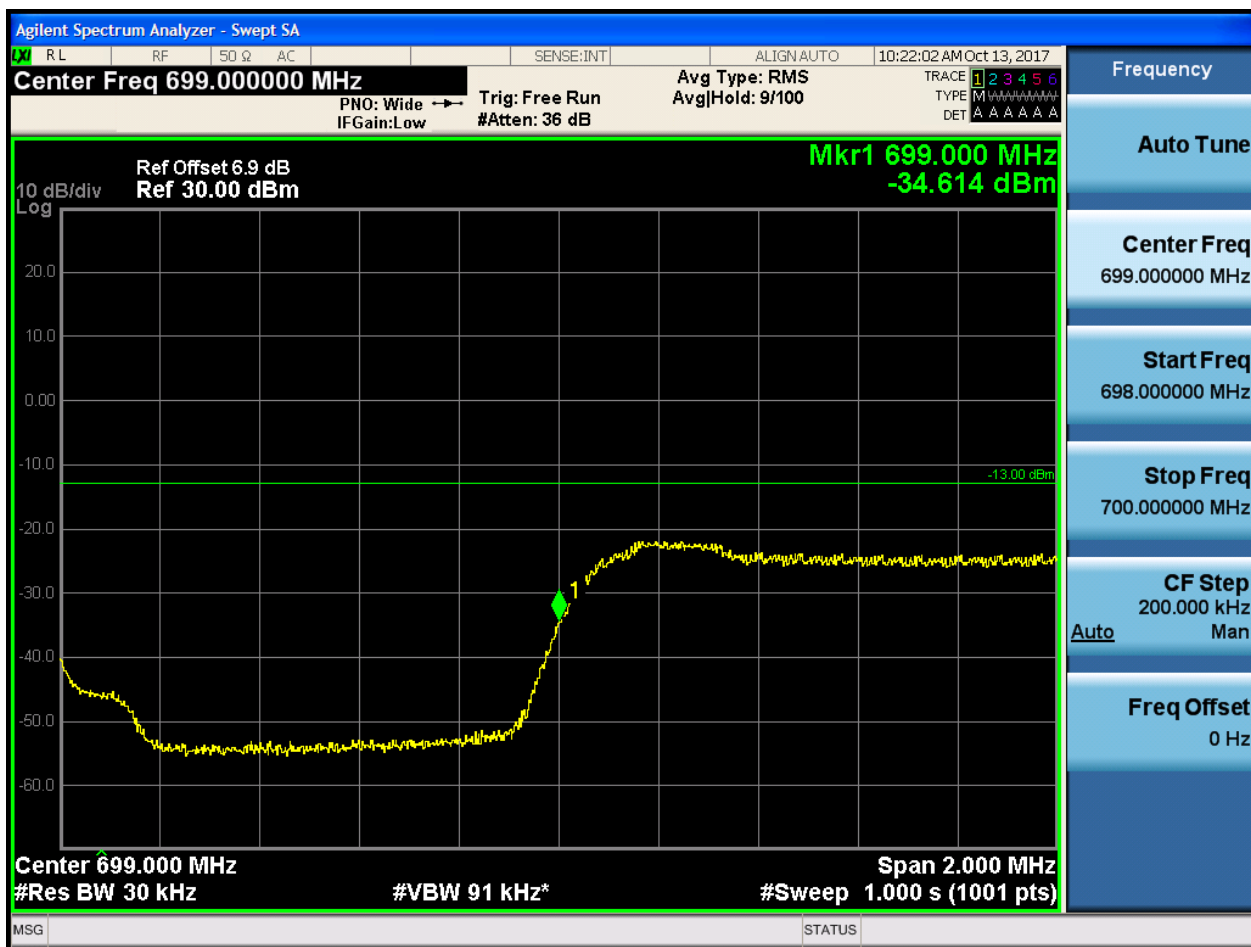
5.1.1.1.2.1 Test Channel = LCH

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

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-35.140 dBm

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
Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:22:32 AM Oct 13, 2017

Center Freq 699.000000 MHz 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 6.9 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-31.260 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

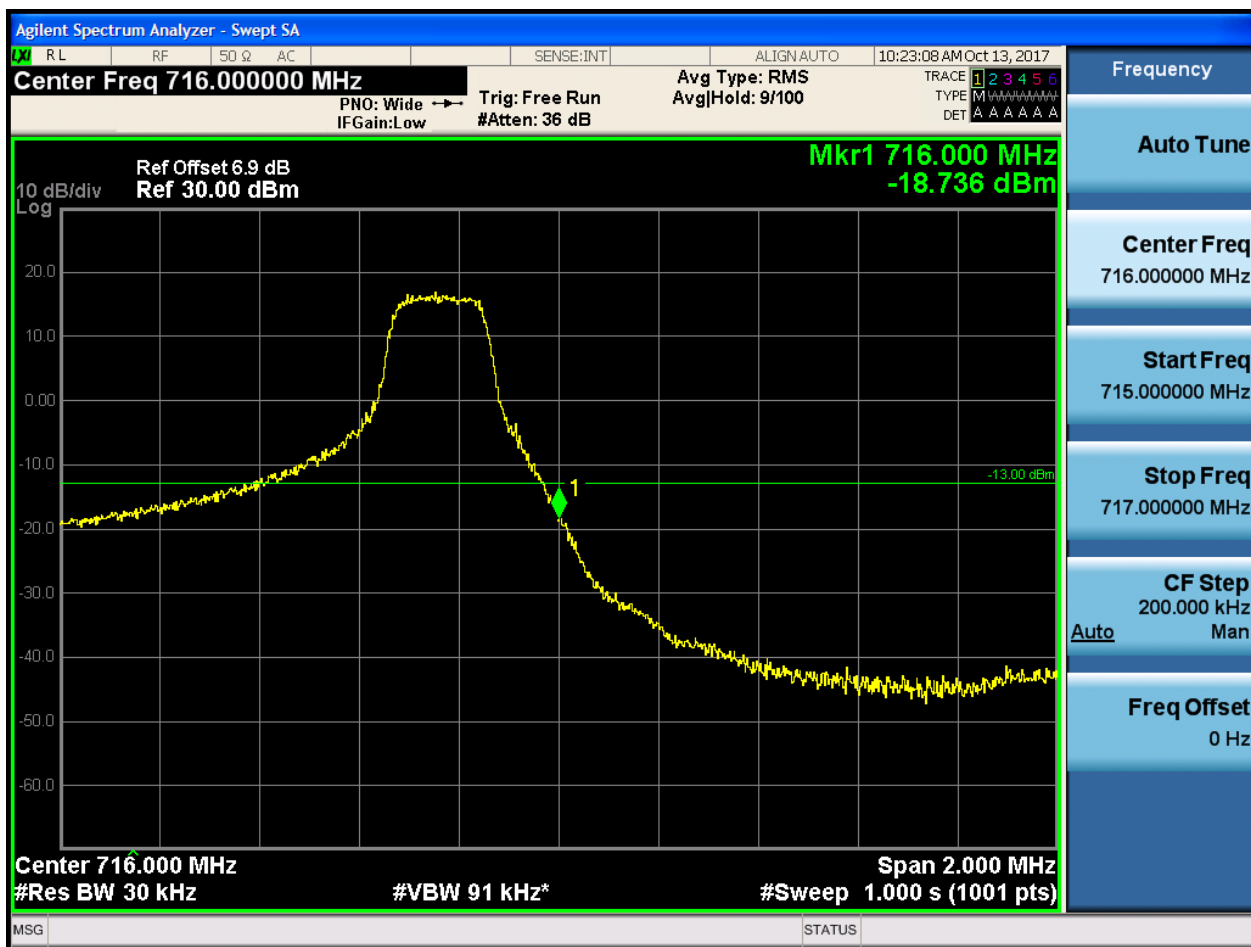
5.1.1.1.2.2 Test Channel = HCH

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 10:23:23 AM Oct 13, 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 6.9 dB
Ref 30.00 dBm

Mkr1 716.010 MHz
-30.289 dBm

10 dB/div
Log

-13.00 dBm

Center 716.000 MHz Span 2.000 MHz
#Res BW 30 kHz #VBW 91 kHz* #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



5.1.1.1.2.2.4 Test RB = RB15#0

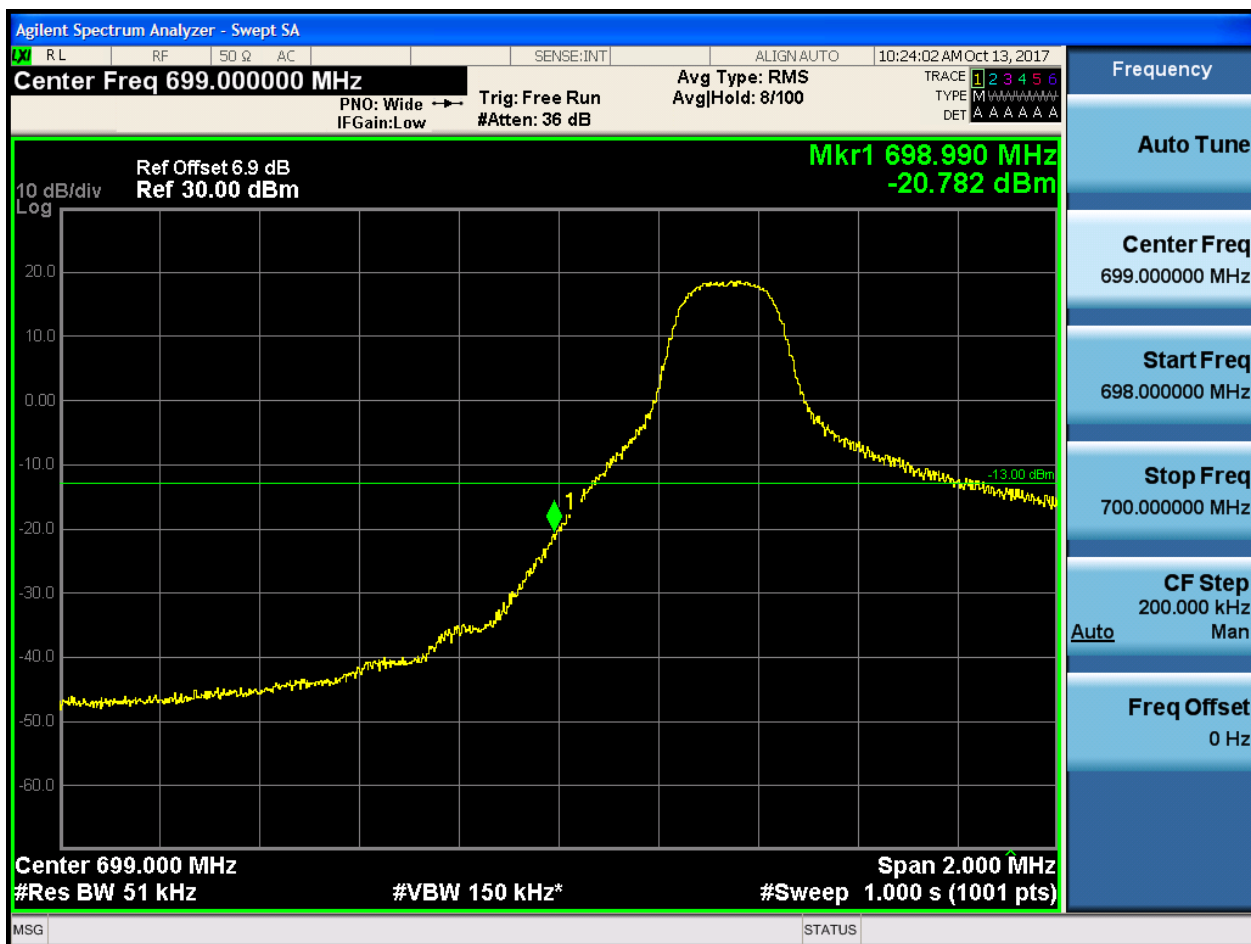




5.1.1.1.3 Test Bandwidth = 5

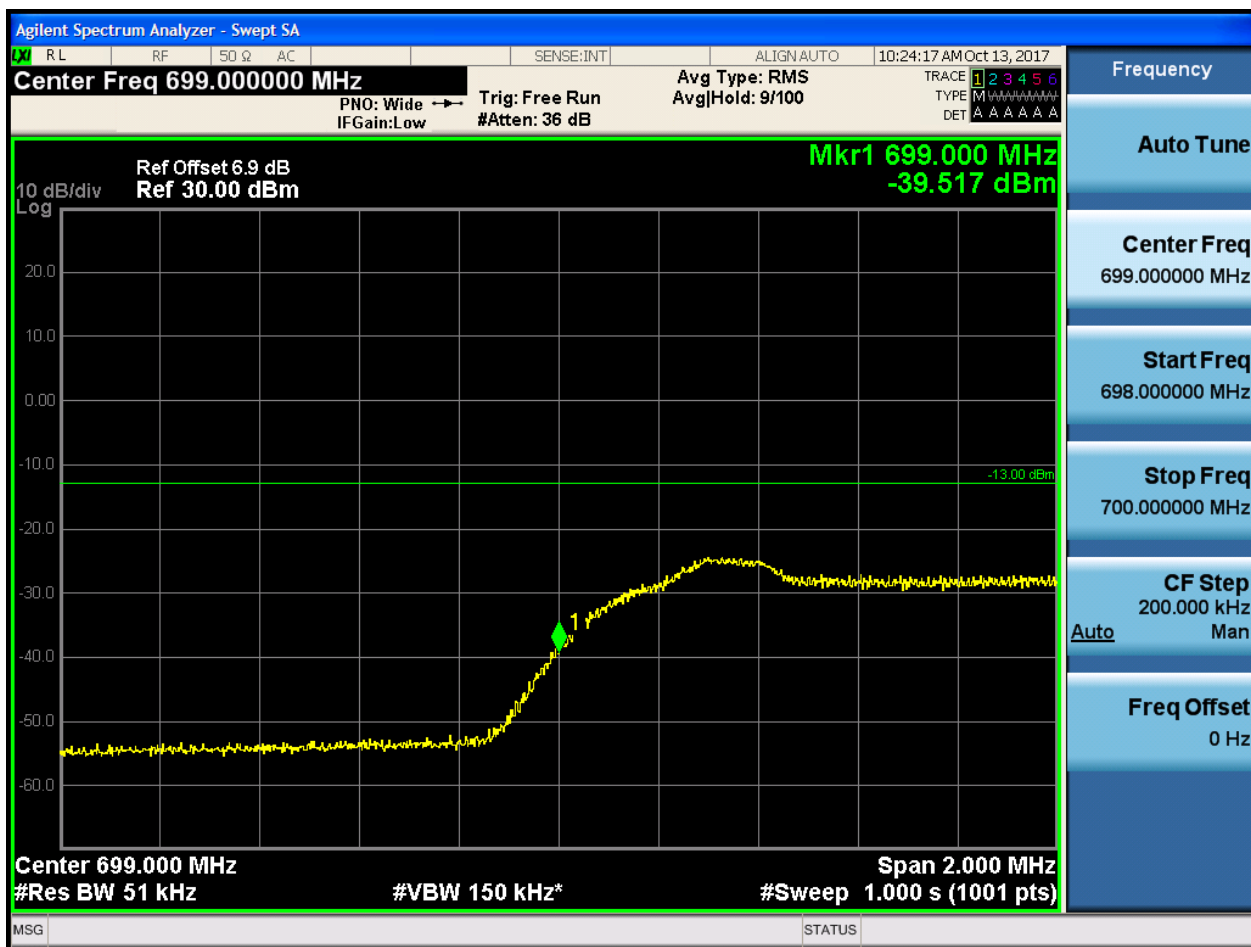
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 698.990 MHz
-35.211 dBm

Center 699.000 MHz
#Res BW 51 kHz

#VBW 150 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

PNO: Wide → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: RMS
Avg/Hold: 9/100

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 6.9 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-30.354 dBm

10 dB/div Log

-13.00 dBm

Center 699.000 MHz
#Res BW 51 kHz

#VBW 150 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

MSG STATUS

5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:25:23 AM Oct 13, 2017

Center Freq 716.000000 MHz

PNO: Wide → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: RMS
Avg/Hold: 9/100

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 6.9 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-17.901 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 51 kHz

#VBW 150 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 <u>Auto</u> Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz

Avg Type: RMS
Avg/Hold: 9/100

PNO: Wide → Trig: Free Run
IFGain: Low #Atten: 36 dB

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-29.946 dBm

10 dB/div Log

-13.00 dBm

Center 716.000 MHz
#Res BW 51 kHz

#VBW 150 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 <u>Auto</u>
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:25:54 AM Oct 13, 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 6.9 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-27.041 dBm

10 dB/div
Log

-13.00 dBm

Center 716.000 MHz Span 2.000 MHz
#Res BW 51 kHz #VBW 150 kHz* #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

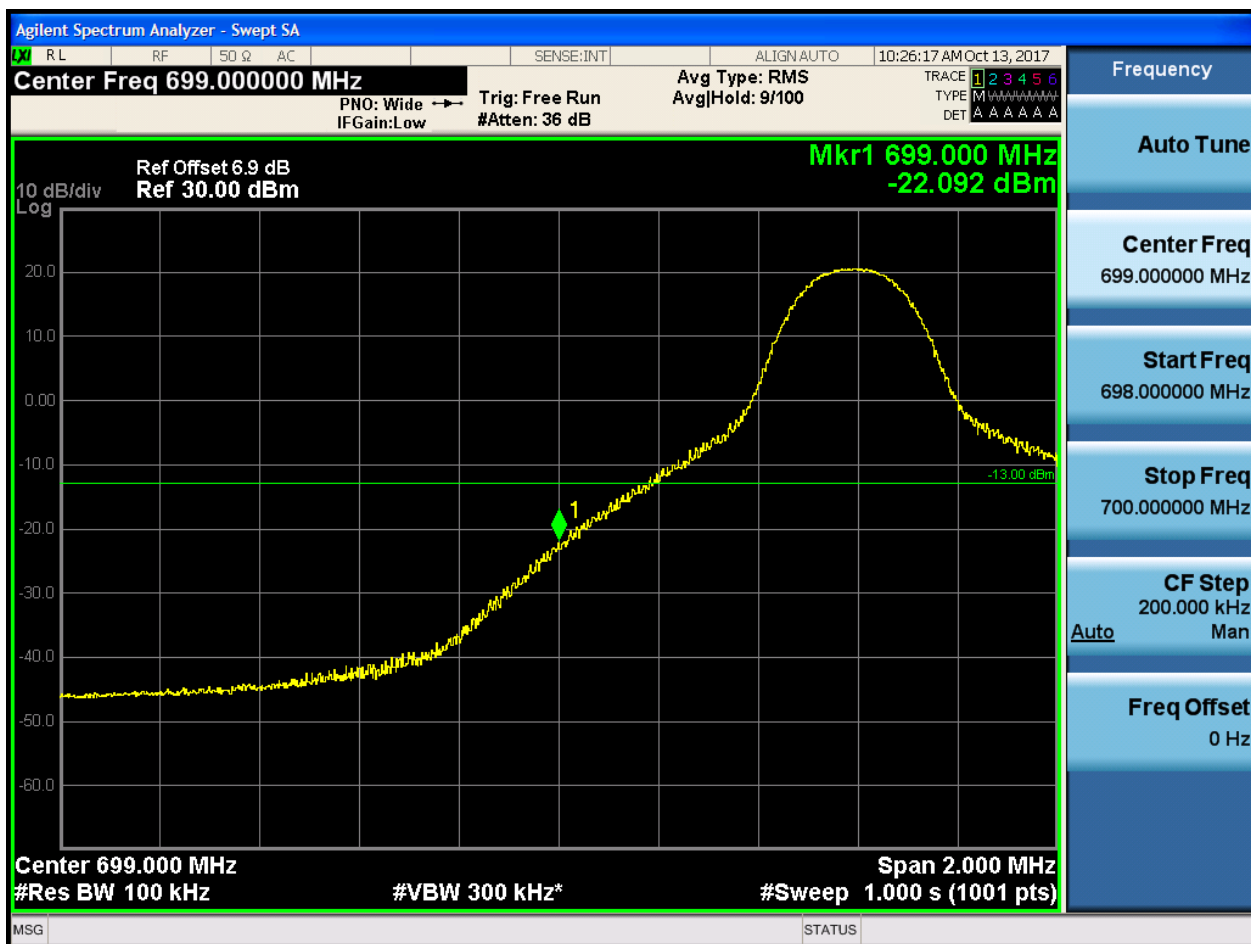
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.4 Test Bandwidth = 10

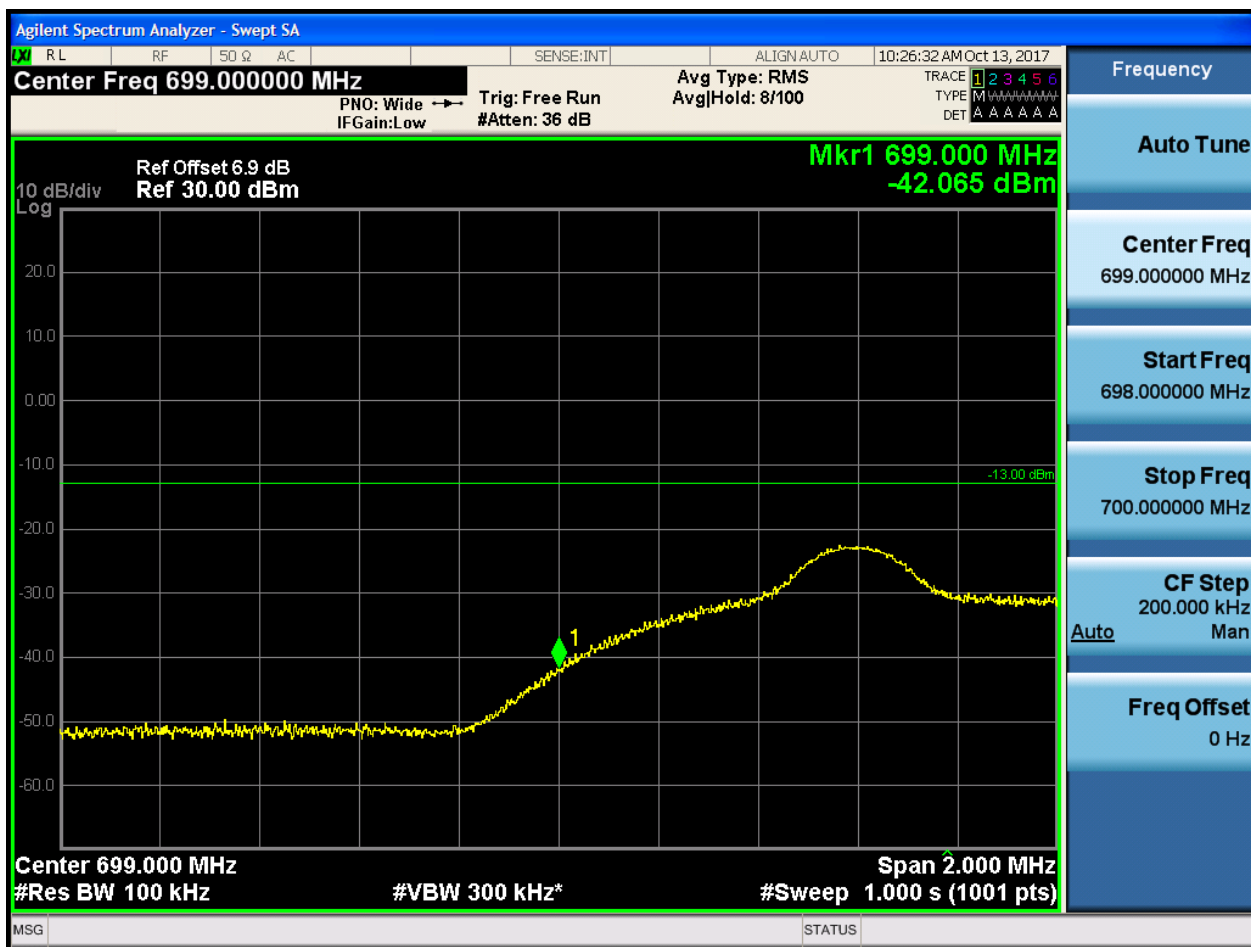
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

PNO: Wide → Trig: Free Run
IFGain: Low #Atten: 36 dB

Avg Type: RMS
Avg/Hold: 9/100

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 6.9 dB
Ref 30.00 dBm

Mkr1 698.940 MHz
-33.781 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-32.251 dBm

Center 699.000 MHz
#Res BW 100 kHz
#VBW 300 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

5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:27:54 AM Oct 13, 2017

Center Freq 716.000000 MHz 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 6.9 dB
Ref 30.00 dBm

Mkr1 716.020 MHz
-32.093 dBm

10 dB/div
Log

The spectrum analyzer display shows a swept spectrum with a yellow trace. A marker labeled '1' is placed on the trace at 716.020 MHz, indicating a power level of -32.093 dBm. The background is black with a white grid. The y-axis is labeled 'Log' and ranges from -60.0 to 20.0 dBm. The x-axis represents frequency, with a center frequency of 716.000 MHz and a span of 2.000 MHz. The resolution bandwidth is 100 kHz and the video bandwidth is 300 kHz. The sweep time is 1.000 s (1001 pts).

Center 716.000 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
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 10:28:09 AM Oct 13, 2017

Center Freq 716.000000 MHz 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
 DET A A A A A A

Ref Offset 6.9 dB
 Ref 30.00 dBm

Mkr1 716.000 MHz
 -29.368 dBm

10 dB/div
 Log

20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

715.000000 MHz
716.000000 MHz
717.000000 MHz

-13.00 dBm

1

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 Man

Freq Offset
 0 Hz

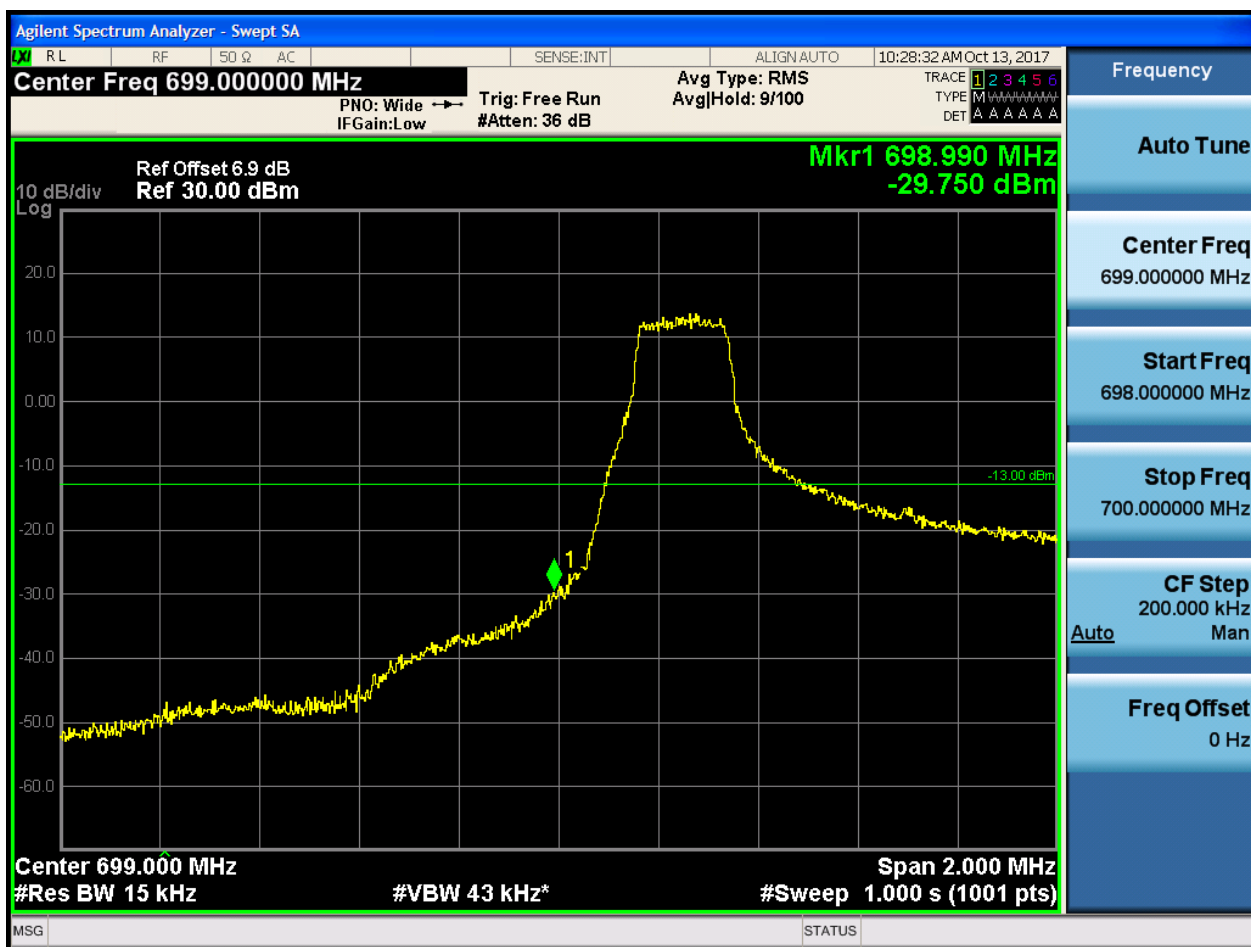
MSG STATUS

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





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 698.320 MHz
-32.524 dBm

-13.00 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:29:03 AM Oct 13, 2017

Center Freq 699.000000 MHz 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 6.9 dB
Ref 30.00 dBm

Mkr1 698.990 MHz
-34.962 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 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 698.990 MHz
-35.040 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

The image shows a screenshot of an Agilent Spectrum Analyzer in swept mode. The main display is a log-frequency plot with a yellow trace. The center frequency is 699.000000 MHz. A marker '1' is placed on the trace at 698.990 MHz with a level of -35.040 dBm. The plot has a 10 dB/div vertical scale and a 2.000 MHz span. The horizontal axis is labeled 'Center 699.000 MHz' and the vertical axis is labeled '10 dB/div Log'. The trace shows a flat noise floor at approximately -40 dBm from 698.0 MHz to 698.8 MHz, then rises sharply to a level of approximately -13 dBm at 699.0 MHz, where it remains relatively flat with some noise. The right side of the screen displays various settings: 'Auto Tune', 'Center Freq 699.000000 MHz', 'Start Freq 698.000000 MHz', 'Stop Freq 700.000000 MHz', 'CF Step 200.000 kHz' (set to 'Auto'), and 'Freq Offset 0 Hz'. The bottom status bar shows 'MSG', 'STATUS', and other parameters like '#Res BW 15 kHz', '#VBW 43 kHz*', and '#Sweep 1.000 s (1001 pts)'.



5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5





5.1.1.2.1.2.3 Test RB = RB3#2





5.1.1.2.1.2.4 Test RB = RB6#0

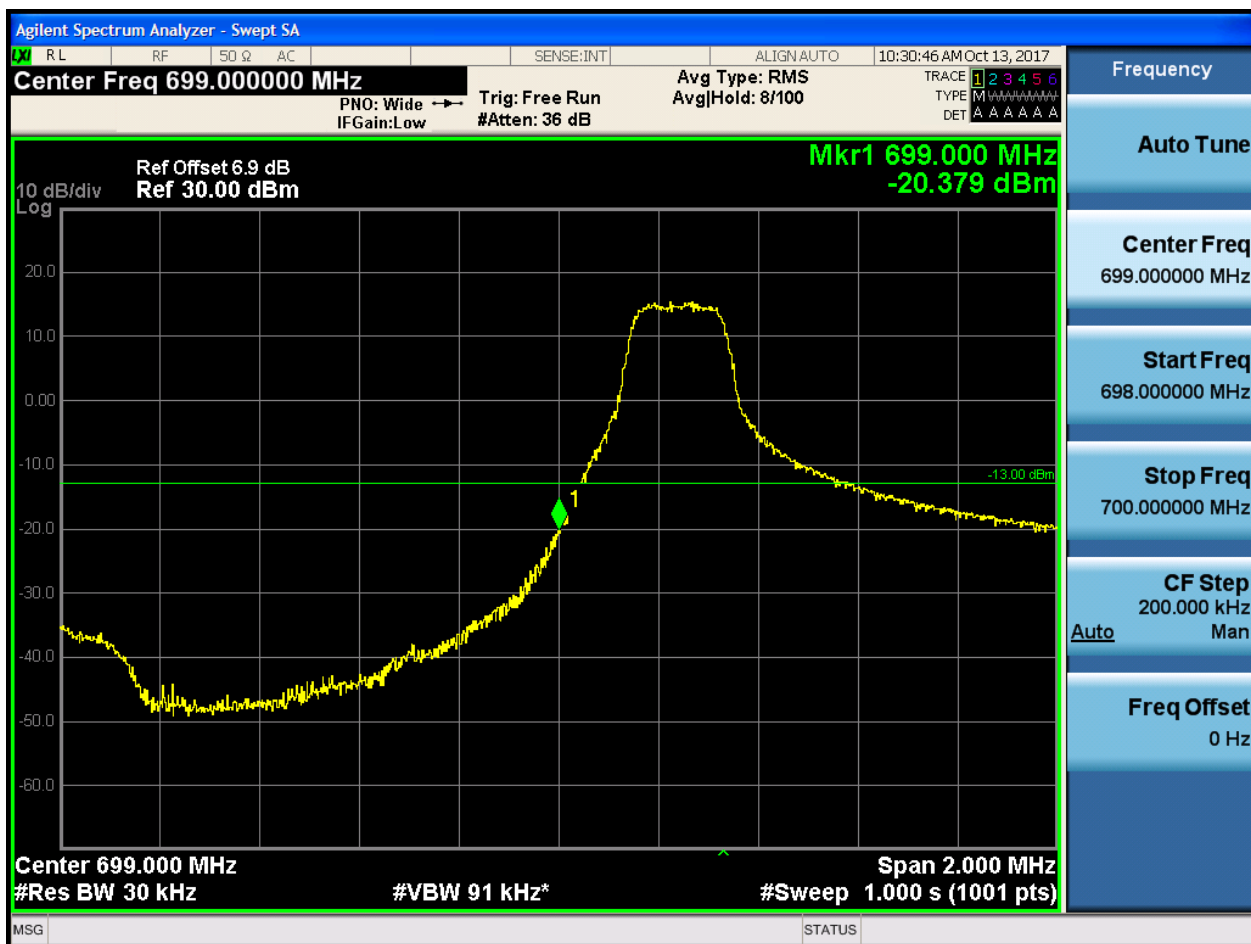




5.1.1.2.2 Test Bandwidth = 3

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 10:31:01 AM Oct 13, 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 6.9 dB
Ref 30.00 dBm

**Mkr1 699.000 MHz
-35.248 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)

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

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:31:16 AM Oct 13, 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 6.9 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-36.070 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 698.990 MHz
-33.585 dBm

Center 699.000 MHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 91 kHz*

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg/Hold: 8/100

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

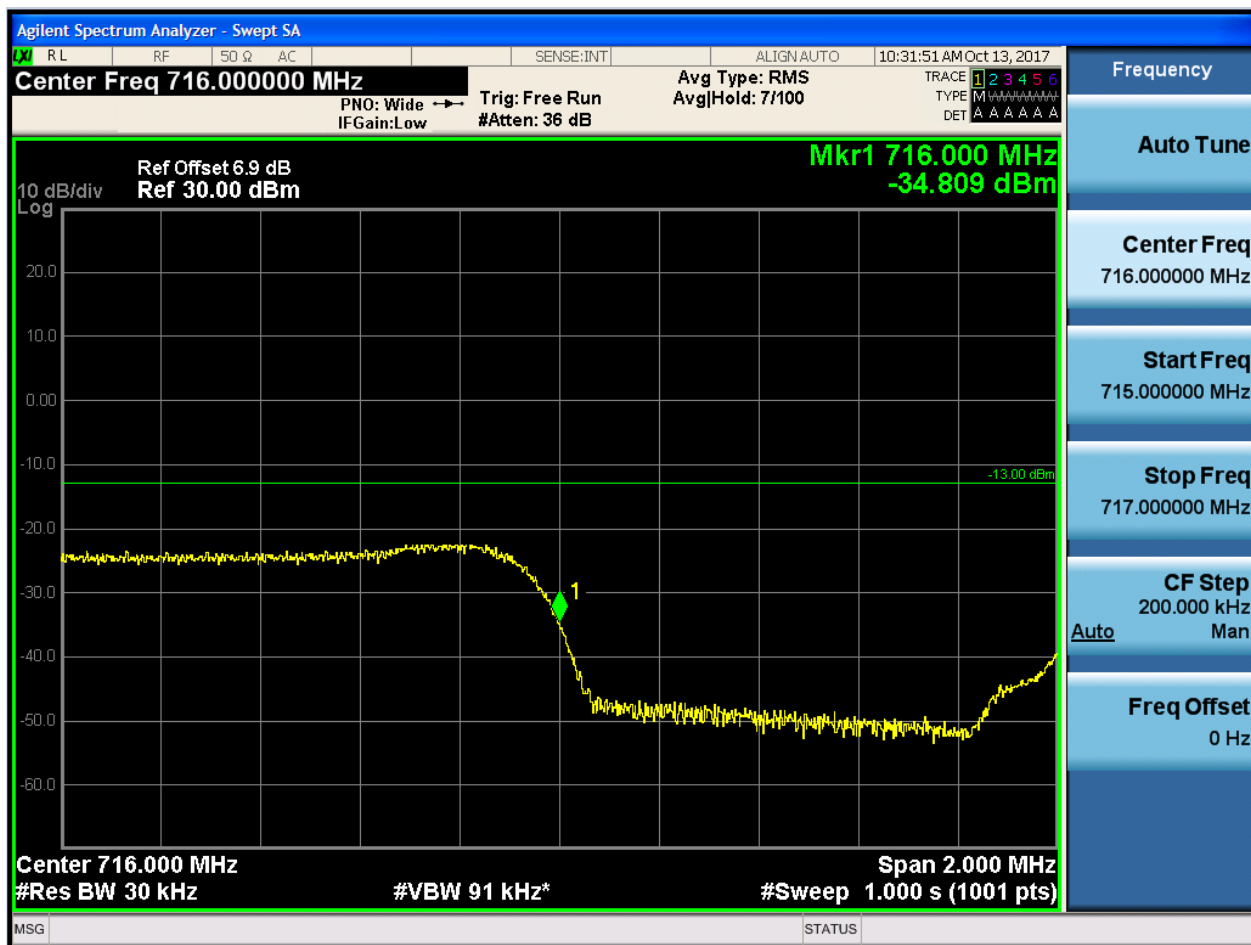
CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

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 (MHz). The center frequency is set to 699.000000 MHz. The reference level is 30.00 dBm, and the offset is 6.9 dB. The plot shows a signal that is flat at approximately -40 dBm from 698.0 MHz to 698.8 MHz, then rises sharply to about 0 dBm at 699.0 MHz, and remains flat thereafter. A marker is placed on the rising edge at 698.990 MHz with a power reading of -33.585 dBm. The right side of the screen contains a control panel with various settings: Frequency (699.000000 MHz), Auto Tune, Center Freq (699.000000 MHz), Start Freq (698.000000 MHz), Stop Freq (700.000000 MHz), CF Step (200.000 kHz, Auto), and Freq Offset (0 Hz). The bottom status bar shows the center frequency (699.000 MHz), resolution bandwidth (30 kHz), video bandwidth (91 kHz), span (2.000 MHz), and sweep time (1.000 s, 1001 pts).

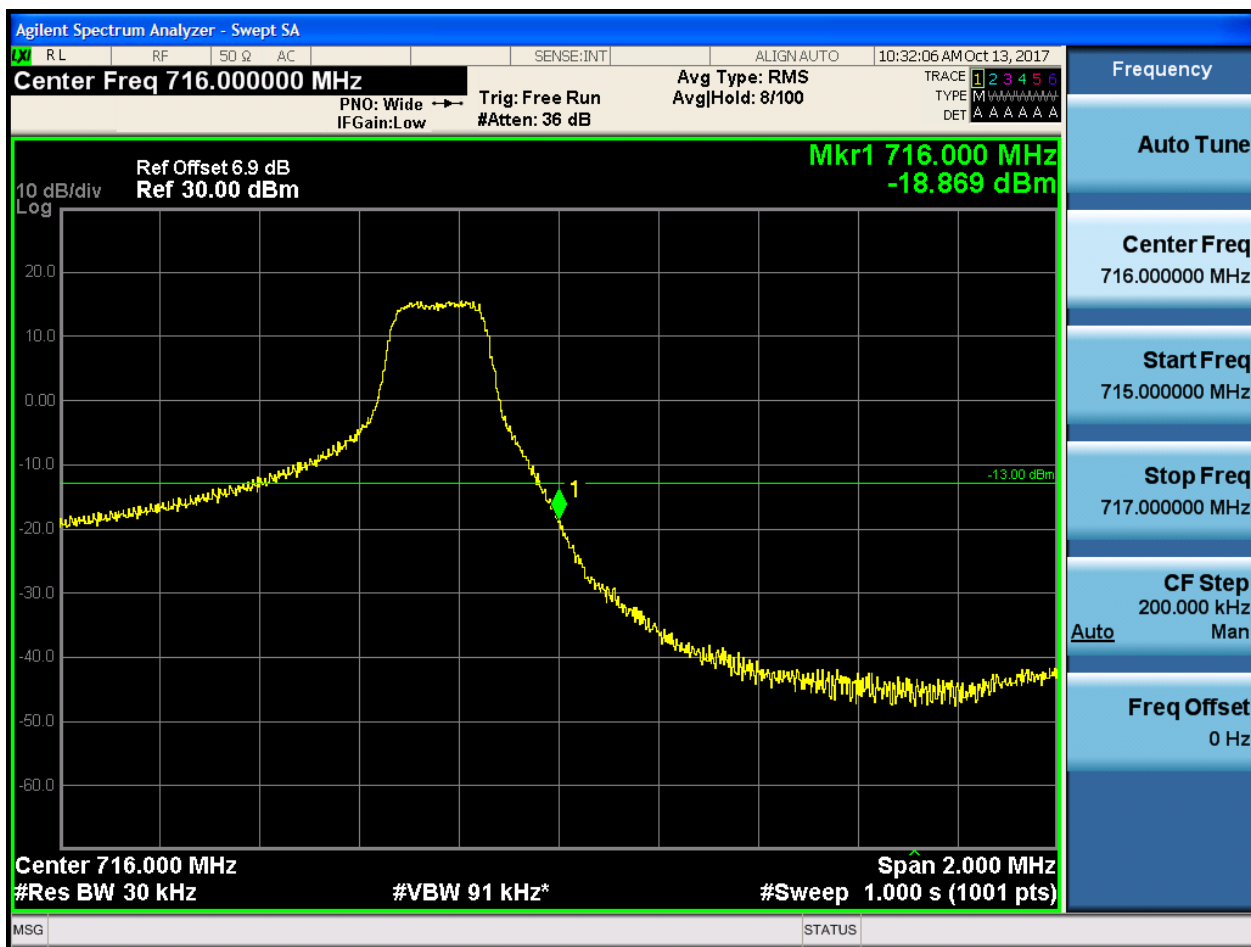
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:32:21 AM Oct 13, 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 6.9 dB
Ref 30.00 dBm

Mkr1 716.000 MHz
-31.276 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)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-29.914 dBm

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

Freq Offset
0 Hz

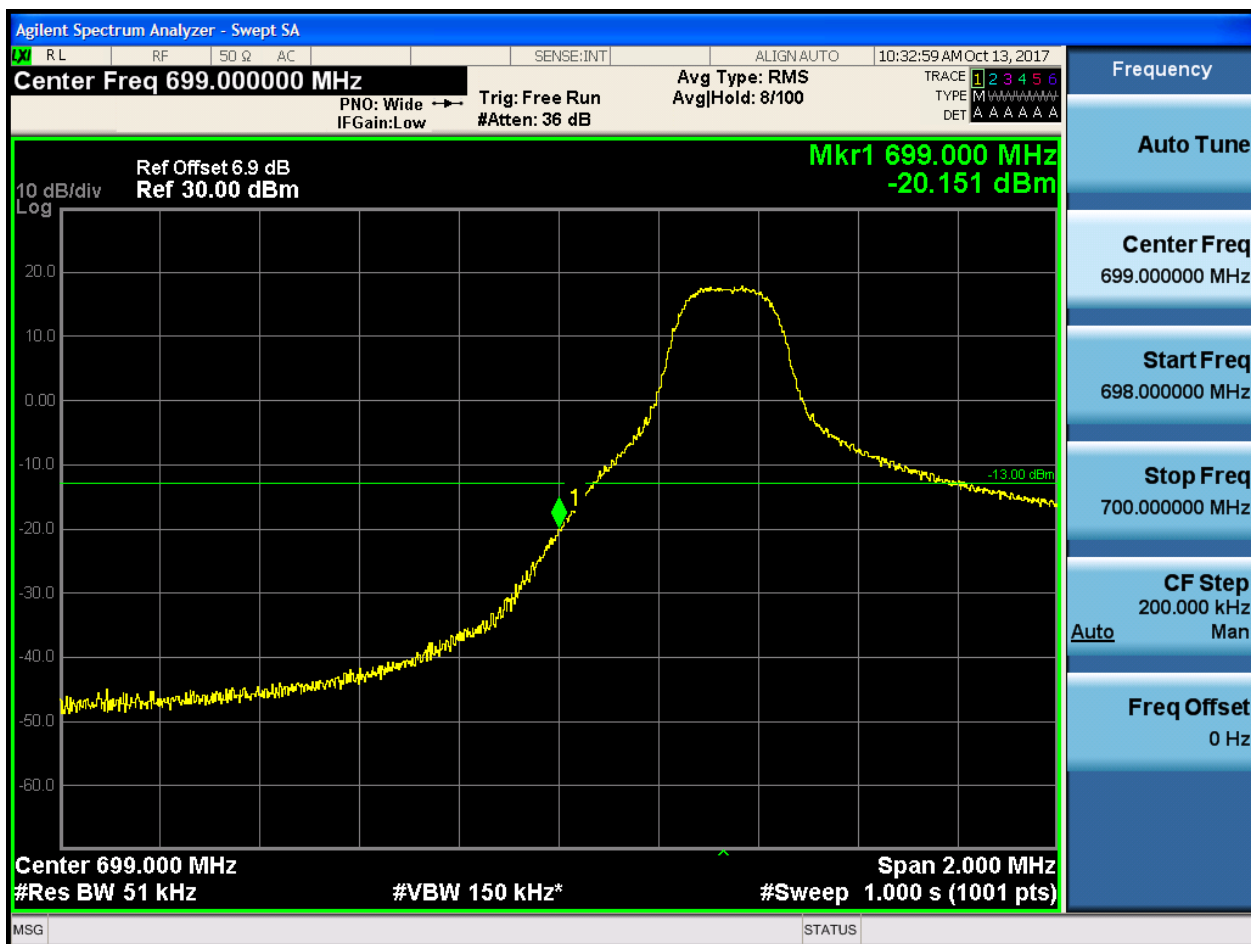
The screenshot displays a swept spectrum on a logarithmic scale. The y-axis represents power in dBm, ranging from -60.0 to 20.0. The x-axis represents frequency in MHz, with a center frequency of 716.000 MHz and a span of 2.000 MHz. A yellow trace shows the signal spectrum, which is relatively flat around 0 dBm until approximately 715.5 MHz, where it drops sharply to about -30 dBm. A green horizontal line is drawn at -13.00 dBm. A green marker labeled '1' is placed on the signal trace at the center frequency. The right side of the screen features a control panel with various settings for frequency, auto-tune, center frequency, start/stop frequencies, CF step, and frequency offset.



5.1.1.2.3 Test Bandwidth = 5

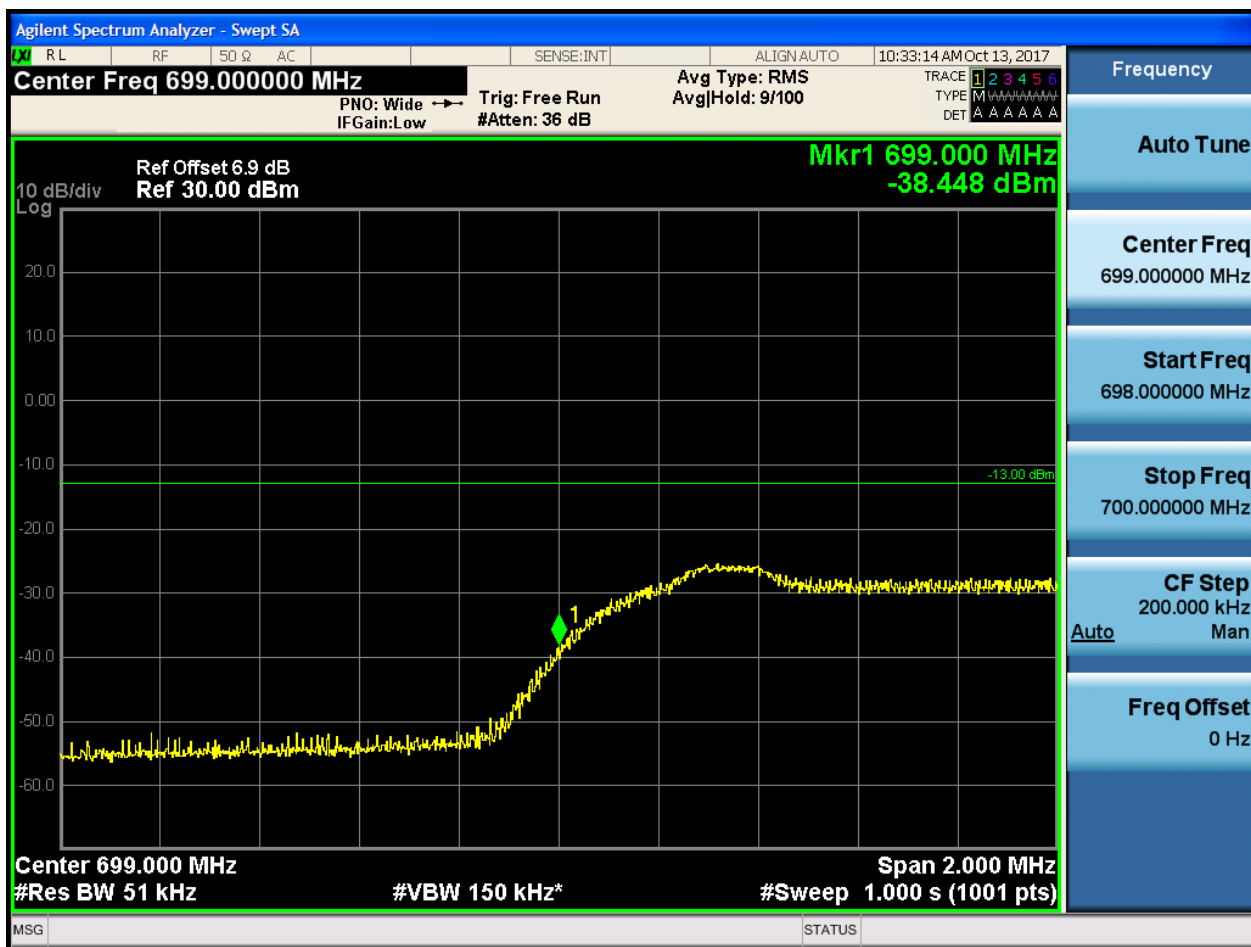
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:33:29 AM Oct 13, 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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-35.437 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 STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 10:33:45 AM Oct 13, 2017

Center Freq 699.000000 MHz 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 6.9 dB
Ref 30.00 dBm

Mkr1 699.000 MHz
-32.317 dBm

10 dB/div
Log

-13.00 dBm

Center 699.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

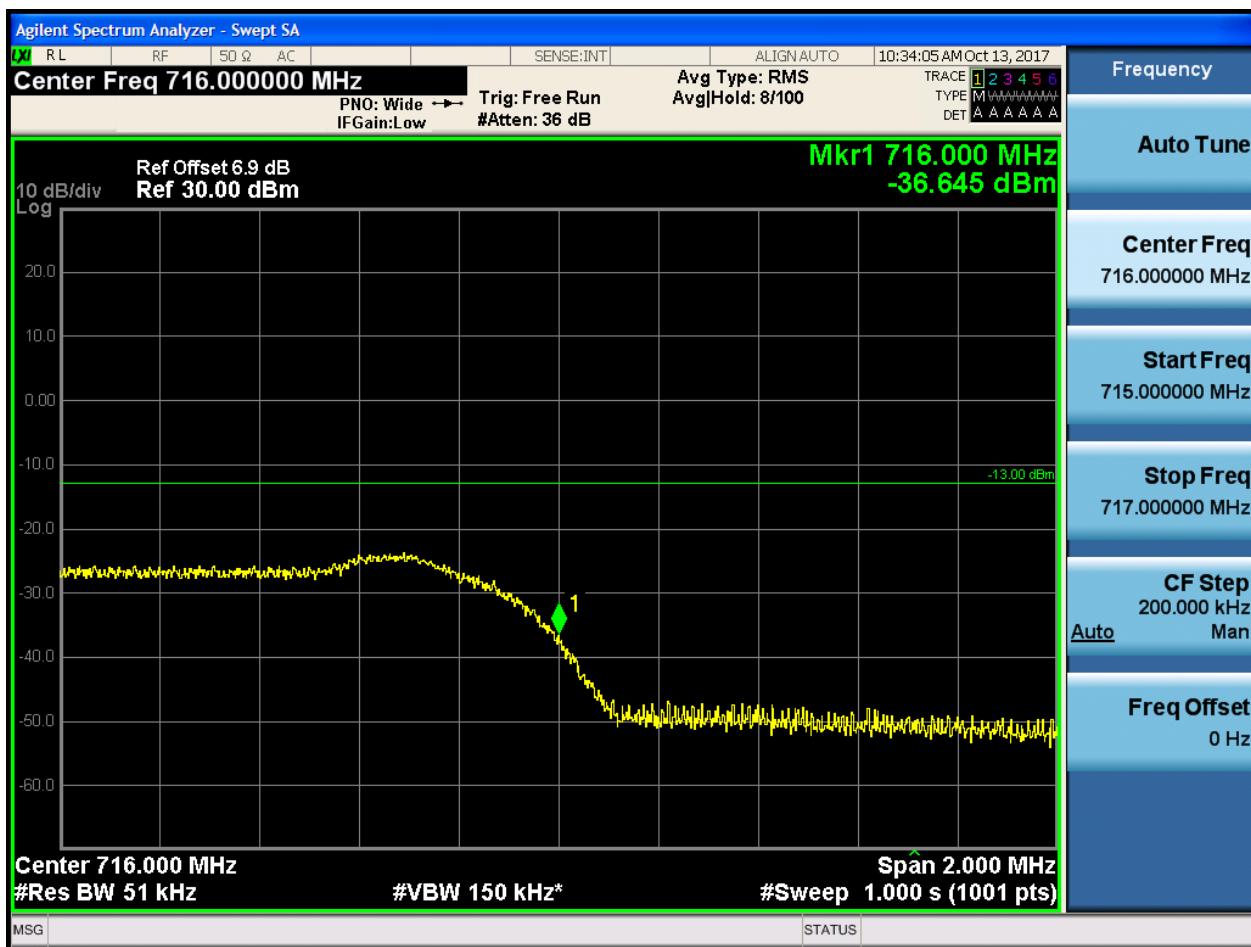
#VBW 150 kHz*

MSG STATUS



5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 716.000 MHz
-19.761 dBm

Center 716.000 MHz
#Res BW 51 kHz
#VBW 150 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



5.1.1.2.3.2.3 Test RB = RB12#6





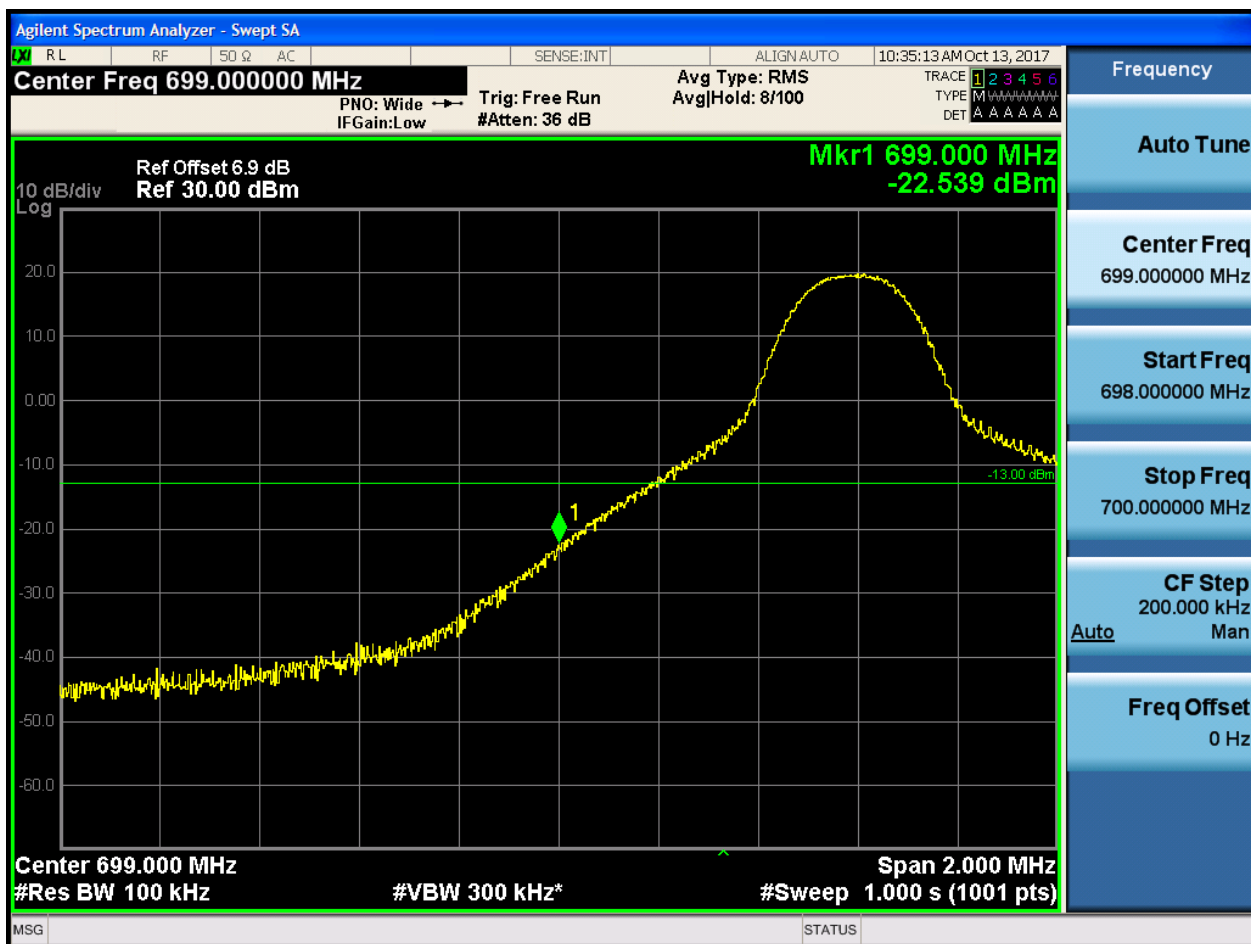
5.1.1.2.3.2.4 Test RB = RB25#0



5.1.1.2.4 Test Bandwidth = 10

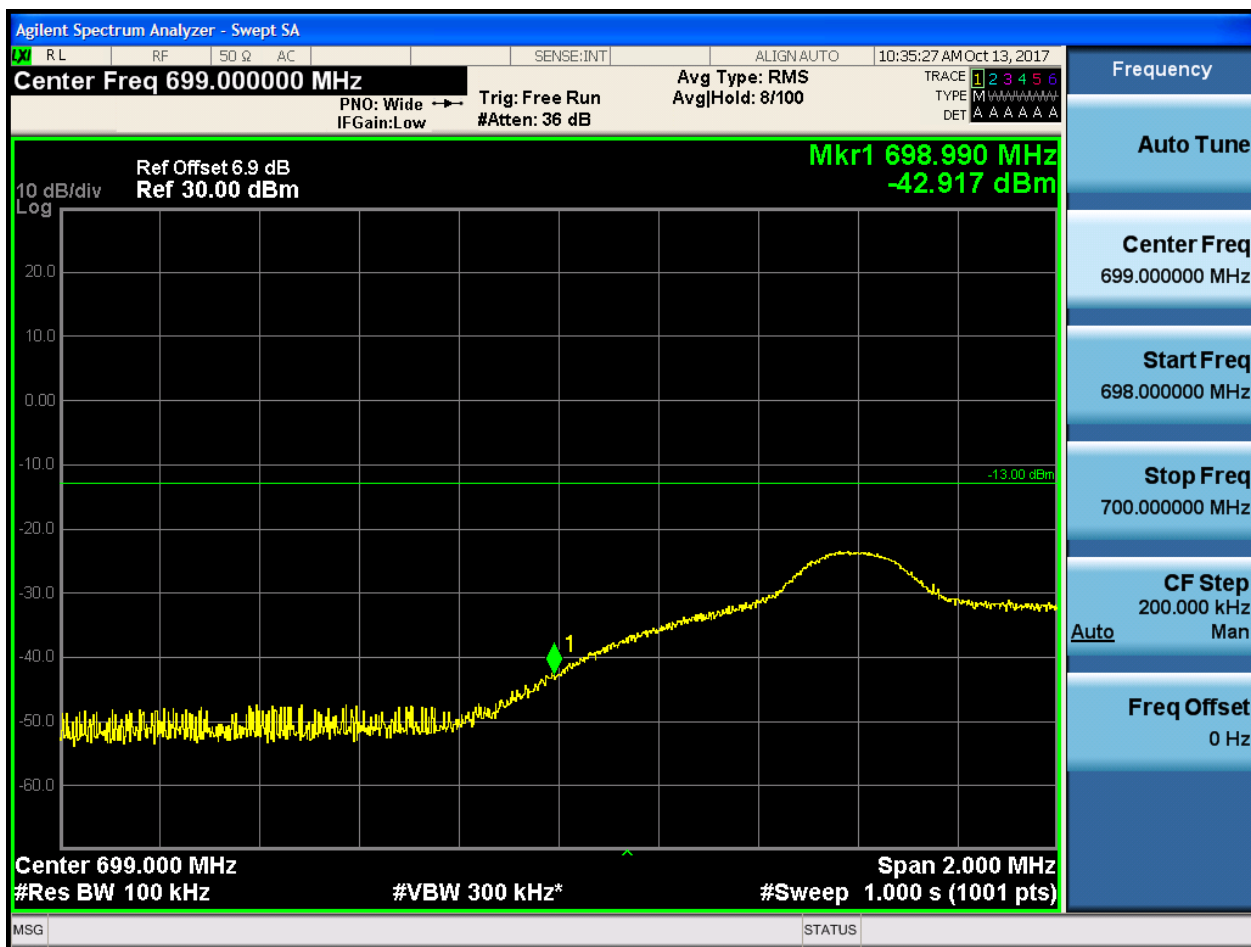
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 698.990 MHz
-35.319 dBm

Center 699.000 MHz
#Res BW 100 kHz

#VBW 300 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

[illegible]



5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 10:36:48 AM Oct 13, 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 6.9 dB
Ref 30.00 dBm

Mkr1 716.030 MHz
-33.697 dBm

10 dB/div
Log

Center 716.000 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
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz