



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
BAND5	LTE/TM1	1.4	LCH	RB1#0	23.07	18.01	38.5	PASS
				RB1#3	23.11	18.20	38.5	PASS
				RB1#5	23.01	18.22	38.5	PASS
				RB3#0	22.94	17.82	38.5	PASS
				RB3#2	22.99	18.04	38.5	PASS
				RB3#3	23.05	18.25	38.5	PASS
			MCH	RB6#0	21.97	17.11	38.5	PASS
				RB1#0	22.7	17.82	38.5	PASS
				RB1#3	22.71	17.93	38.5	PASS
				RB1#5	22.67	17.76	38.5	PASS
				RB3#0	23.03	18.27	38.5	PASS
				RB3#2	22.97	18.10	38.5	PASS
				RB3#3	22.99	18.22	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB6#0	21.9	16.81	38.5	PASS
				RB1#0	23.04	17.98	38.5	PASS
				RB1#3	23.18	18.41	38.5	PASS
				RB1#5	23.04	18.05	38.5	PASS
				RB3#0	22.98	17.83	38.5	PASS
				RB3#2	22.94	18.05	38.5	PASS
				RB3#3	22.8	17.70	38.5	PASS
				RB6#0	22.02	17.03	38.5	PASS
		3	LCH	RB1#0	23.1	18.28	38.5	PASS
				RB1#7	23.14	18.14	38.5	PASS
				RB1#14	22.81	17.67	38.5	PASS
				RB8#0	22.01	16.98	38.5	PASS
				RB8#4	21.97	17.08	38.5	PASS
				RB8#7	21.95	16.82	38.5	PASS
				RB15#0	22.1	17.21	38.5	PASS
			MCH	RB1#0	22.9	17.83	38.5	PASS
				RB1#7	23.11	17.96	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#14	22.99	18.06	38.5	PASS
				RB8#0	21.97	17.14	38.5	PASS
				RB8#4	21.99	17.15	38.5	PASS
				RB8#7	22.09	16.95	38.5	PASS
				RB15#0	21.99	17.14	38.5	PASS
			HCH	RB1#0	23.01	17.98	38.5	PASS
				RB1#7	23.22	18.16	38.5	PASS
				RB1#14	23.01	18.25	38.5	PASS
				RB8#0	22	16.95	38.5	PASS
				RB8#4	22.02	17.15	38.5	PASS
				RB8#7	21.99	17.19	38.5	PASS
				RB15#0	21.98	16.91	38.5	PASS
		5	LCH	RB1#0	23.01	18.18	38.5	PASS
				RB1#13	23.16	18.07	38.5	PASS
				RB1#24	22.91	17.80	38.5	PASS
				RB12#0	22.02	17.25	38.5	PASS
				RB12#6	22.02	17.20	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#13	22.05	16.90	38.5	PASS
				RB25#0	22.05	17.29	38.5	PASS
			MCH	RB1#0	22.86	17.86	38.5	PASS
				RB1#13	23.18	18.07	38.5	PASS
				RB1#24	22.88	18.11	38.5	PASS
				RB12#0	22.01	16.94	38.5	PASS
				RB12#6	21.96	17.13	38.5	PASS
				RB12#13	21.98	17.04	38.5	PASS
				RB25#0	21.98	17.22	38.5	PASS
			HCH	RB1#0	22.57	17.81	38.5	PASS
				RB1#13	22.77	17.88	38.5	PASS
				RB1#24	22.51	17.49	38.5	PASS
				RB12#0	22.02	16.98	38.5	PASS
				RB12#6	22.05	16.96	38.5	PASS
				RB12#13	22	16.93	38.5	PASS
				RB25#0	22.03	17.05	38.5	PASS
		10	LCH	RB1#0	23.18	18.38	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#25	23.3	18.54	38.5	PASS
				RB1#49	22.89	18.06	38.5	PASS
				RB25#0	22.01	17.24	38.5	PASS
				RB25#13	22.03	16.97	38.5	PASS
				RB25#25	22.06	17.22	38.5	PASS
				RB50#0	22.03	17.26	38.5	PASS
			MCH	RB1#0	22.86	18.09	38.5	PASS
				RB1#25	23.06	18.09	38.5	PASS
				RB1#49	22.81	17.71	38.5	PASS
				RB25#0	21.92	16.85	38.5	PASS
				RB25#13	22.01	16.92	38.5	PASS
				RB25#25	21.98	17.23	38.5	PASS
				RB50#0	21.96	16.91	38.5	PASS
			HCH	RB1#0	22.87	17.88	38.5	PASS
				RB1#25	23.42	18.34	38.5	PASS
				RB1#49	22.95	17.90	38.5	PASS
				RB25#0	21.93	17.06	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#13	22.03	17.11	38.5	PASS
				RB25#25	22.03	17.02	38.5	PASS
				RB50#0	22.04	17.18	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.75	16.89	38.5	PASS
				RB1#3	21.8	16.69	38.5	PASS
				RB1#5	21.82	16.77	38.5	PASS
				RB3#0	21.91	17.03	38.5	PASS
				RB3#2	21.88	16.86	38.5	PASS
				RB3#3	21.9	17.15	38.5	PASS
				RB6#0	21.05	16.09	38.5	PASS
			MCH	RB1#0	22.28	17.14	38.5	PASS
				RB1#3	22.45	17.54	38.5	PASS
				RB1#5	22.3	17.23	38.5	PASS
				RB3#0	21.99	16.91	38.5	PASS
				RB3#2	22.29	17.48	38.5	PASS
				RB3#3	22.21	17.39	38.5	PASS
				RB6#0	21.11	16.06	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.96	17.03	38.5	PASS
				RB1#3	21.82	16.92	38.5	PASS
				RB1#5	21.48	16.35	38.5	PASS
				RB3#0	22.13	17.22	38.5	PASS
				RB3#2	22.13	17.33	38.5	PASS
				RB3#3	22.09	17.07	38.5	PASS
				RB6#0	20.87	16.04	38.5	PASS
		3	LCH	RB1#0	21.97	16.89	38.5	PASS
				RB1#7	22.26	17.27	38.5	PASS
				RB1#14	22	16.90	38.5	PASS
				RB8#0	20.84	15.81	38.5	PASS
				RB8#4	20.94	16.13	38.5	PASS
				RB8#7	20.94	16.14	38.5	PASS
				RB15#0	21.02	16.13	38.5	PASS
			MCH	RB1#0	21.99	16.90	38.5	PASS
				RB1#7	22.3	17.52	38.5	PASS
				RB1#14	21.59	16.70	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	20.83	15.93	38.5	PASS
				RB8#4	20.84	15.86	38.5	PASS
				RB8#7	20.82	15.98	38.5	PASS
				RB15#0	20.85	15.84	38.5	PASS
			HCH	RB1#0	21.58	16.80	38.5	PASS
				RB1#7	22.08	16.99	38.5	PASS
				RB1#14	21.55	16.78	38.5	PASS
				RB8#0	20.73	15.81	38.5	PASS
				RB8#4	20.71	15.82	38.5	PASS
				RB8#7	20.7	15.68	38.5	PASS
				RB15#0	20.76	15.78	38.5	PASS
		5	LCH	RB1#0	21.48	16.61	38.5	PASS
				RB1#13	21.6	16.55	38.5	PASS
				RB1#24	21.7	16.70	38.5	PASS
				RB12#0	20.76	15.61	38.5	PASS
				RB12#6	20.75	15.90	38.5	PASS
				RB12#13	20.85	16.03	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.9	15.80	38.5	PASS
			MCH	RB1#0	21.38	16.43	38.5	PASS
				RB1#13	21.54	16.48	38.5	PASS
				RB1#24	21.25	16.37	38.5	PASS
				RB12#0	20.88	16.07	38.5	PASS
				RB12#6	20.89	15.77	38.5	PASS
				RB12#13	20.92	15.79	38.5	PASS
				RB25#0	20.87	15.74	38.5	PASS
			HCH	RB1#0	22.26	17.48	38.5	PASS
				RB1#13	22.15	17.26	38.5	PASS
				RB1#24	21.66	16.68	38.5	PASS
				RB12#0	20.95	16.03	38.5	PASS
				RB12#6	21.02	16.17	38.5	PASS
				RB12#13	21	15.92	38.5	PASS
				RB25#0	20.91	15.88	38.5	PASS
		10	LCH	RB1#0	22.01	17.14	38.5	PASS
				RB1#25	22.41	17.39	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.78	16.65	38.5	PASS
				RB25#0	20.94	15.87	38.5	PASS
				RB25#13	20.95	15.96	38.5	PASS
				RB25#25	20.97	16.06	38.5	PASS
				RB50#0	21.03	16.07	38.5	PASS
			MCH	RB1#0	21.36	16.39	38.5	PASS
				RB1#25	22.28	17.53	38.5	PASS
				RB1#49	21.26	16.12	38.5	PASS
				RB25#0	21.11	16.15	38.5	PASS
				RB25#13	21.1	16.27	38.5	PASS
				RB25#25	21.07	16.32	38.5	PASS
				RB50#0	20.86	15.85	38.5	PASS
			HCH	RB1#0	21.72	16.66	38.5	PASS
				RB1#25	22.18	17.42	38.5	PASS
				RB1#49	21.54	16.60	38.5	PASS
				RB25#0	21	16.07	38.5	PASS
				RB25#13	21.09	16.21	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	20.99	16.23	38.5	PASS
				RB50#0	21.1	16.12	38.5	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:

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

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

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

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
BAND5	LTE/TM1	1.4	LCH	RB1#0	2.96	13	PASS
				RB1#3	2.95	13	PASS
				RB1#5	3.02	13	PASS
				RB3#0	3.46	13	PASS
				RB3#2	3.31	13	PASS
				RB3#3	3.47	13	PASS
				RB6#0	4.86	13	PASS
			MCH	RB1#0	3.48	13	PASS
				RB1#3	3.35	13	PASS
				RB1#5	3.42	13	PASS
				RB3#0	3.86	13	PASS
				RB3#2	3.71	13	PASS
				RB3#3	3.78	13	PASS
				RB6#0	4.85	13	PASS
			HCH	RB1#0	3.53	13	PASS
				RB1#3	3.38	13	PASS
				RB1#5	3.53	13	PASS
				RB3#0	3.86	13	PASS
				RB3#2	3.75	13	PASS
				RB3#3	3.8	13	PASS
				RB6#0	5.04	13	PASS
		3	LCH	RB1#0	3.08	13	PASS
				RB1#7	3.02	13	PASS
				RB1#14	3.22	13	PASS
				RB8#0	4.11	13	PASS
				RB8#4	3.94	13	PASS
				RB8#7	4.14	13	PASS
				RB15#0	4.72	13	PASS
			MCH	RB1#0	3.49	13	PASS
				RB1#7	3.36	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#14	3.45	13	PASS
				RB8#0	4.49	13	PASS
				RB8#4	4.31	13	PASS
				RB8#7	4.41	13	PASS
				RB15#0	5.24	13	PASS
			HCH	RB1#0	3.5	13	PASS
				RB1#7	3.44	13	PASS
				RB1#14	3.5	13	PASS
				RB8#0	4.45	13	PASS
				RB8#4	4.33	13	PASS
				RB8#7	4.47	13	PASS
				RB15#0	4.94	13	PASS
		5	LCH	RB1#0	2.97	13	PASS
				RB1#13	3.02	13	PASS
				RB1#24	3.25	13	PASS
				RB12#0	4.02	13	PASS
				RB12#6	3.91	13	PASS
				RB12#13	4.21	13	PASS
				RB25#0	4.68	13	PASS
			MCH	RB1#0	3.39	13	PASS
				RB1#13	3.23	13	PASS
				RB1#24	3.34	13	PASS
				RB12#0	4.36	13	PASS
				RB12#6	4.15	13	PASS
				RB12#13	4.3	13	PASS
				RB25#0	5.03	13	PASS
			HCH	RB1#0	3.4	13	PASS
				RB1#13	3.42	13	PASS
				RB1#24	3.55	13	PASS
				RB12#0	4.38	13	PASS
				RB12#6	4.23	13	PASS
				RB12#13	4.4	13	PASS
				RB25#0	5.12	13	PASS
		10	LCH	RB1#0	3.06	13	PASS
				RB1#25	3.24	13	PASS
				RB1#49	3.44	13	PASS
				RB25#0	4.2	13	PASS
				RB25#13	4.26	13	PASS
				RB25#25	4.37	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	4.69	13	PASS
			MCH	RB1#0	3.45	13	PASS
				RB1#25	3.37	13	PASS
				RB1#49	3.38	13	PASS
				RB25#0	4.44	13	PASS
				RB25#13	4.28	13	PASS
				RB25#25	4.36	13	PASS
				RB50#0	5.28	13	PASS
			HCH	RB1#0	3.19	13	PASS
				RB1#25	3.32	13	PASS
				RB1#49	3.45	13	PASS
				RB25#0	4.31	13	PASS
				RB25#13	4.27	13	PASS
				RB25#25	4.51	13	PASS
				RB50#0	5.57	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.02	13	PASS
				RB1#3	3.91	13	PASS
				RB1#5	3.97	13	PASS
				RB3#0	3.99	13	PASS
				RB3#2	3.89	13	PASS
				RB3#3	4.07	13	PASS
				RB6#0	5.26	13	PASS
			MCH	RB1#0	4.37	13	PASS
				RB1#3	4.27	13	PASS
				RB1#5	4.29	13	PASS
				RB3#0	4.48	13	PASS
				RB3#2	4.32	13	PASS
				RB3#3	4.45	13	PASS
				RB6#0	5.46	13	PASS
			HCH	RB1#0	4.18	13	PASS
				RB1#3	4.09	13	PASS
				RB1#5	4.2	13	PASS
				RB3#0	4.54	13	PASS
				RB3#2	4.38	13	PASS
				RB3#3	4.54	13	PASS
				RB6#0	5.96	13	PASS
		3	LCH	RB1#0	3.77	13	PASS
				RB1#7	3.67	13	PASS
				RB1#14	3.98	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	4.89	13	PASS
				RB8#4	4.81	13	PASS
				RB8#7	5	13	PASS
				RB15#0	5.73	13	PASS
			MCH	RB1#0	4.16	13	PASS
				RB1#7	4.12	13	PASS
				RB1#14	4.16	13	PASS
				RB8#0	5.17	13	PASS
				RB8#4	5.08	13	PASS
				RB8#7	5.18	13	PASS
				RB15#0	5.67	13	PASS
			HCH	RB1#0	4.38	13	PASS
				RB1#7	4.29	13	PASS
				RB1#14	4.45	13	PASS
				RB8#0	5.39	13	PASS
				RB8#4	5.23	13	PASS
				RB8#7	5.36	13	PASS
				RB15#0	5.84	13	PASS
		5	LCH	RB1#0	3.87	13	PASS
				RB1#13	4.02	13	PASS
				RB1#24	4.22	13	PASS
				RB12#0	4.92	13	PASS
				RB12#6	4.8	13	PASS
				RB12#13	5.05	13	PASS
				RB25#0	5.49	13	PASS
			MCH	RB1#0	4.31	13	PASS
				RB1#13	4.17	13	PASS
				RB1#24	4.27	13	PASS
				RB12#0	5.18	13	PASS
				RB12#6	5.04	13	PASS
				RB12#13	5.15	13	PASS
				RB25#0	5.98	13	PASS
			HCH	RB1#0	3.92	13	PASS
				RB1#13	3.9	13	PASS
				RB1#24	4.03	13	PASS
				RB12#0	5.16	13	PASS
				RB12#6	5.07	13	PASS
				RB12#13	5.21	13	PASS
				RB25#0	5.93	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10	LCH	RB1#0	4.1	13	PASS
				RB1#25	4.22	13	PASS
				RB1#49	4.53	13	PASS
				RB25#0	5.21	13	PASS
				RB25#13	5.08	13	PASS
				RB25#25	5.34	13	PASS
				RB50#0	6.06	13	PASS
			MCH	RB1#0	4.42	13	PASS
				RB1#25	4.27	13	PASS
				RB1#49	4.43	13	PASS
				RB25#0	5.21	13	PASS
				RB25#13	5.03	13	PASS
				RB25#25	5.13	13	PASS
				RB50#0	5.94	13	PASS
			HCH	RB1#0	3.99	13	PASS
				RB1#25	4.02	13	PASS
				RB1#49	4.21	13	PASS
				RB25#0	5.25	13	PASS
				RB25#13	5.17	13	PASS
				RB25#25	5.31	13	PASS
				RB50#0	6.07	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

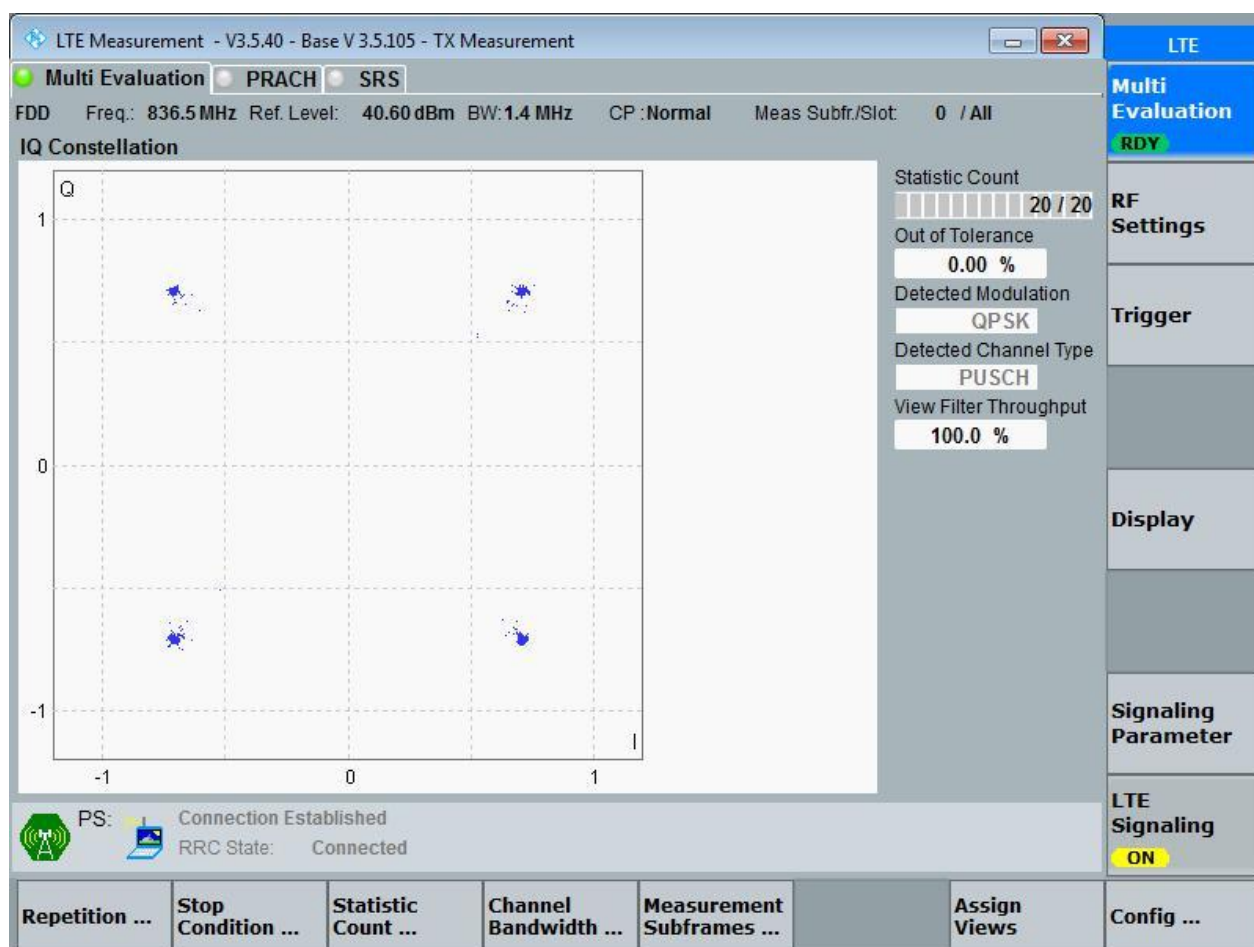
3.1.1 Test Band = BAND5

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

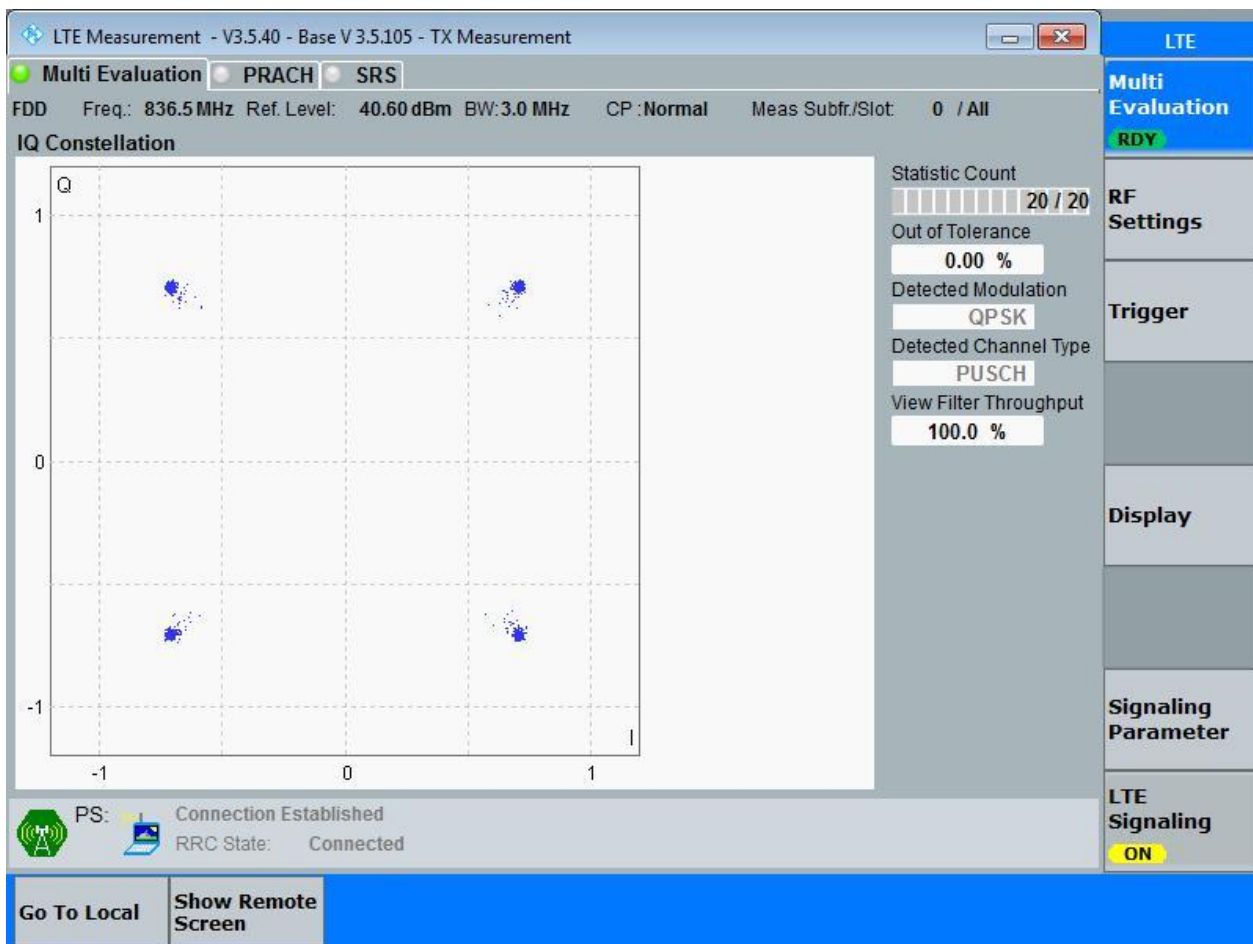
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

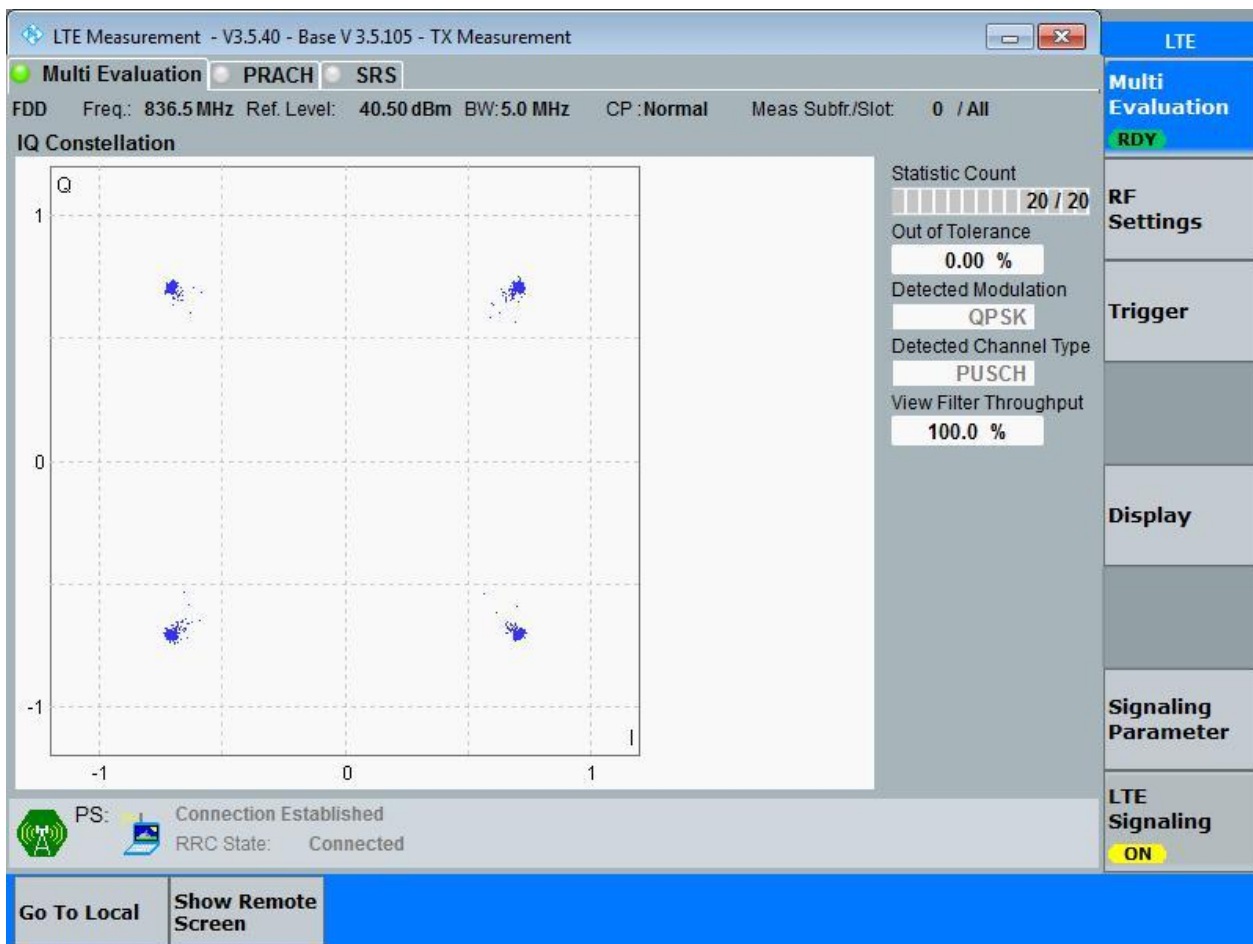
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

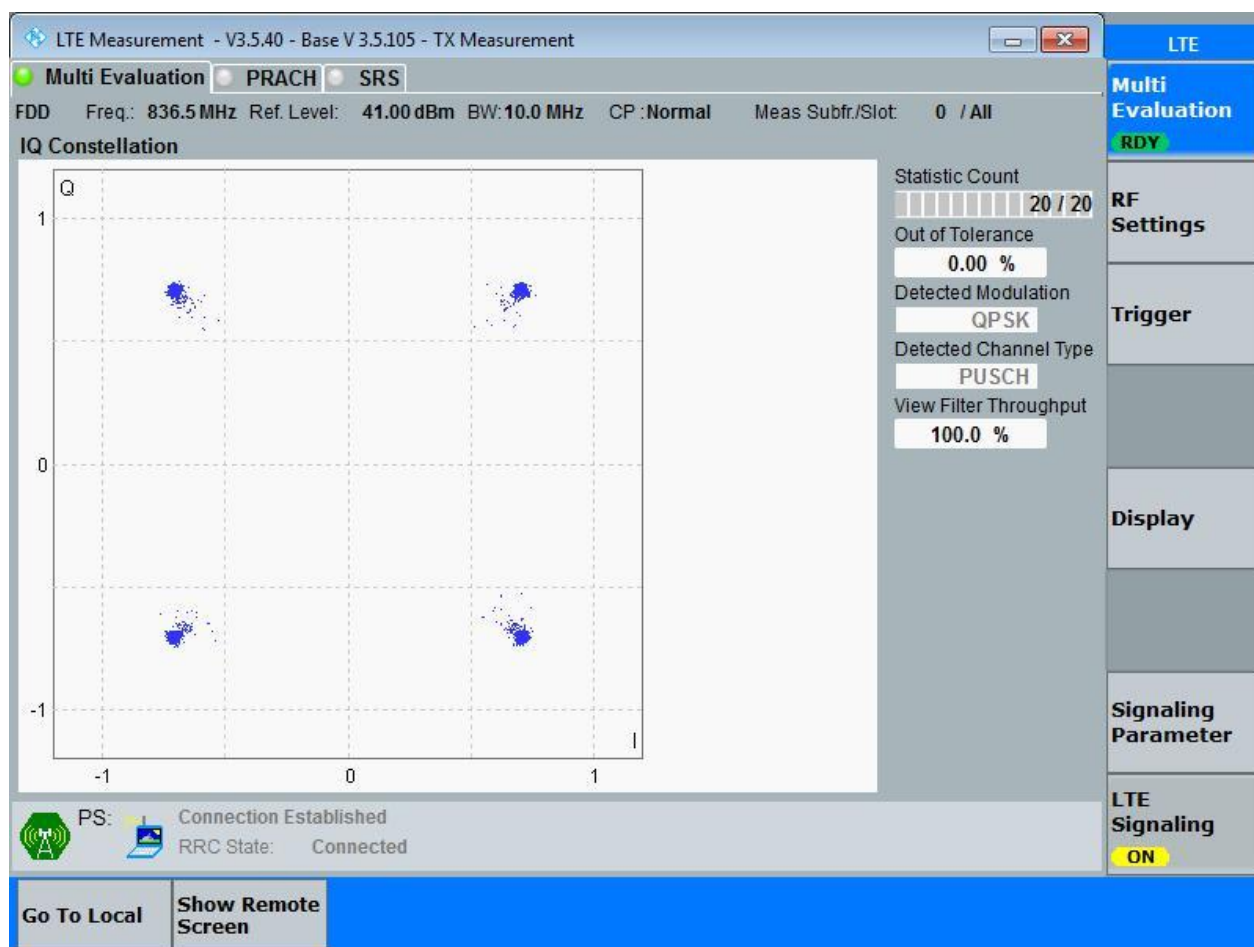
3.1.1.1.3.1.1 Test RB = RB25#0



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

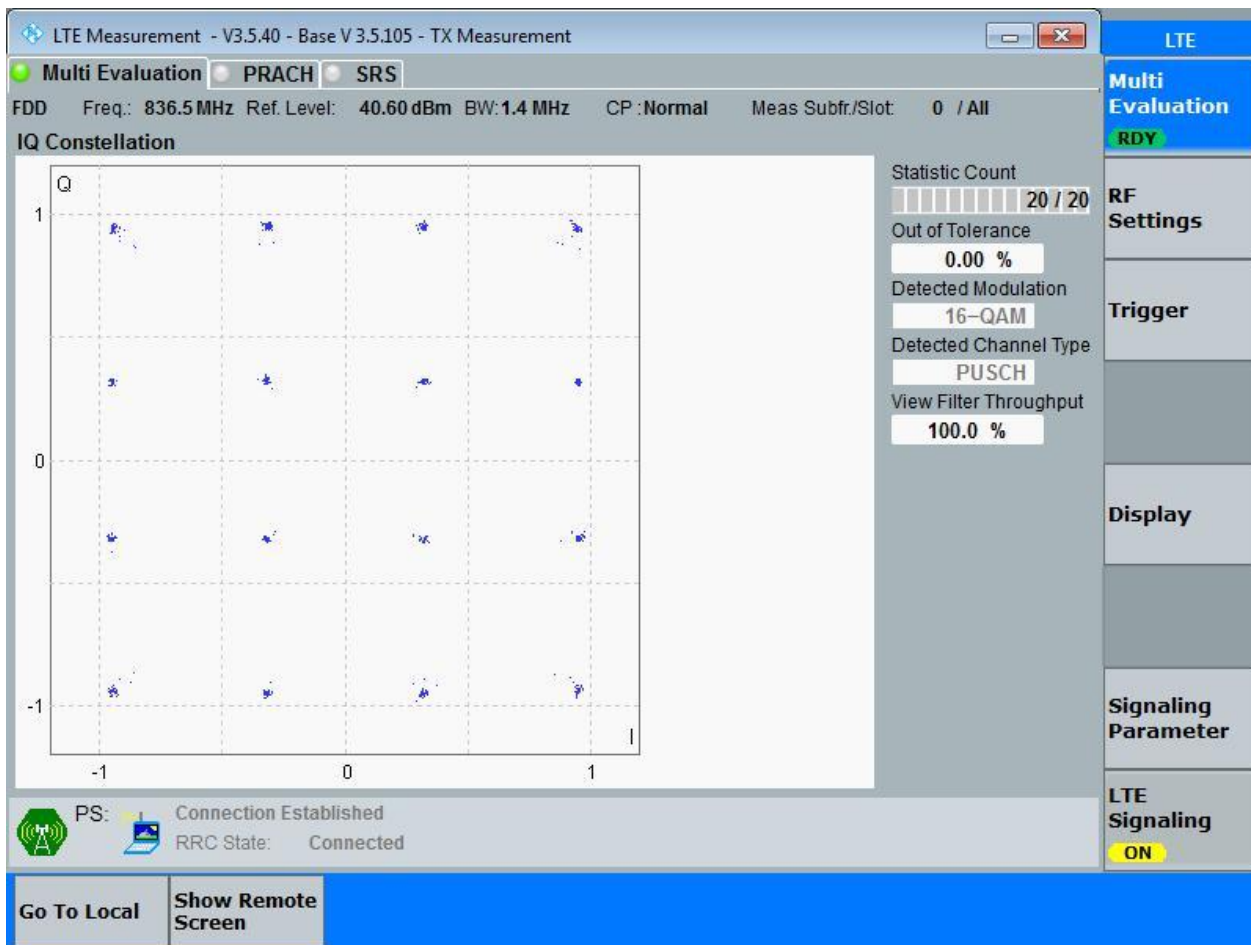


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

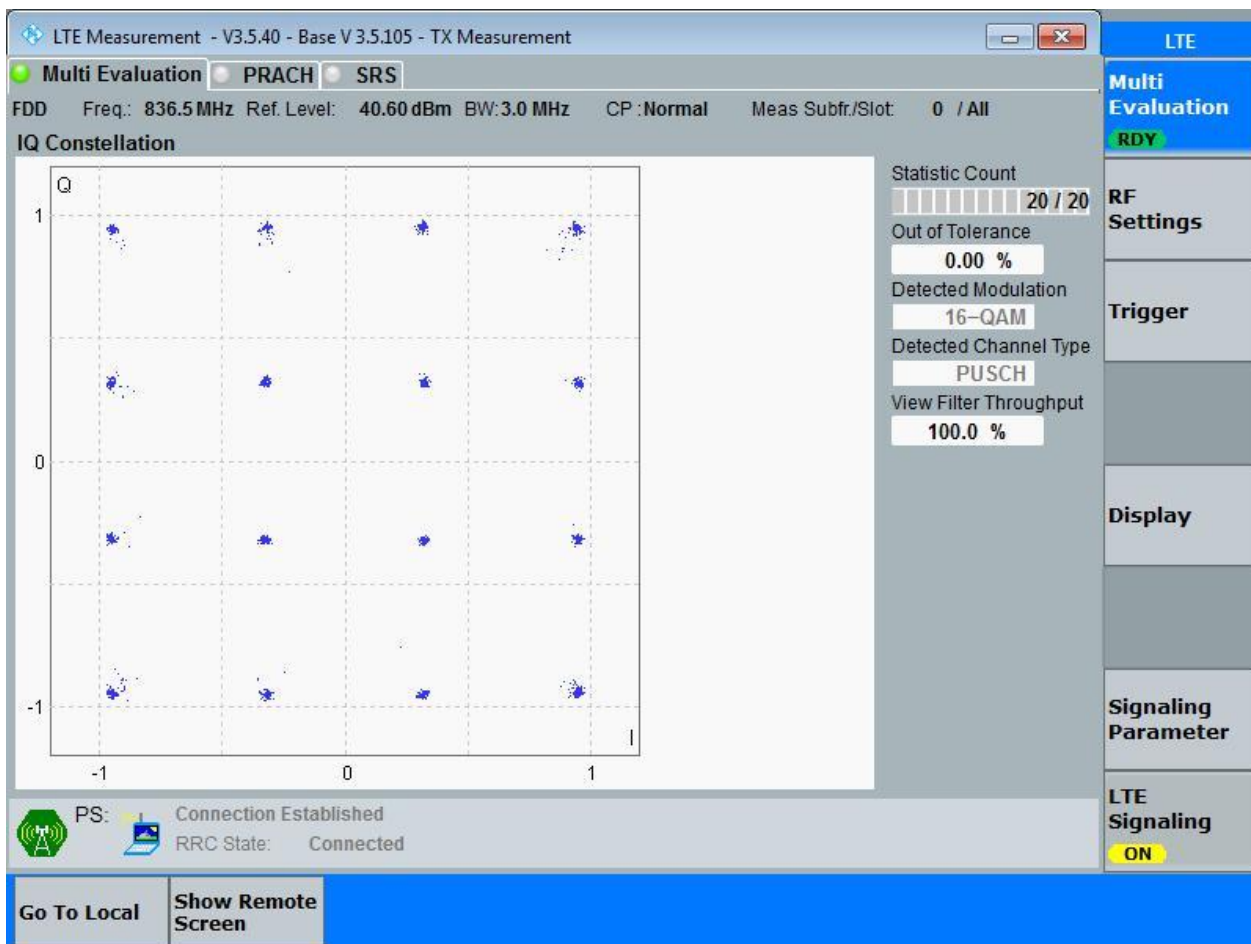
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

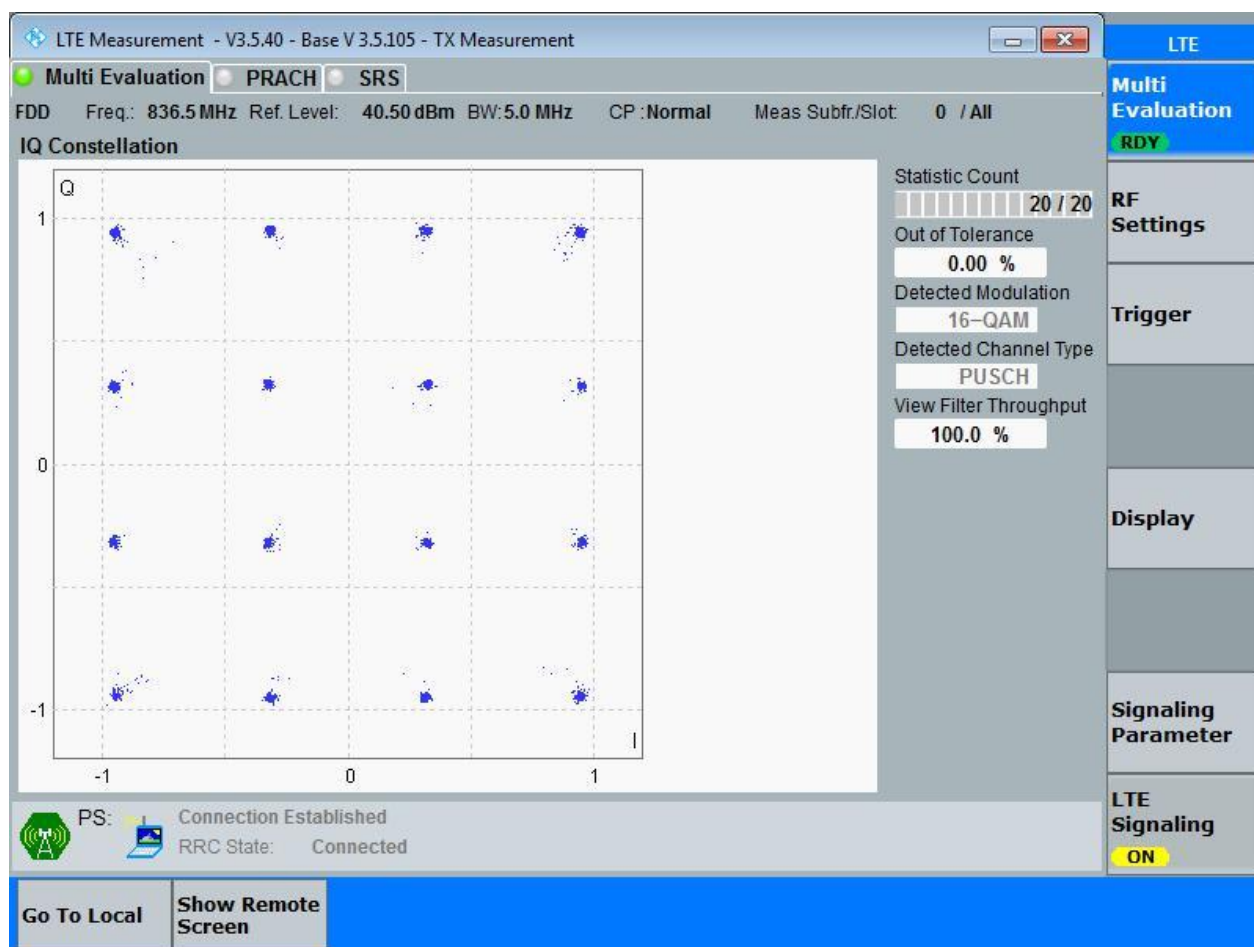
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

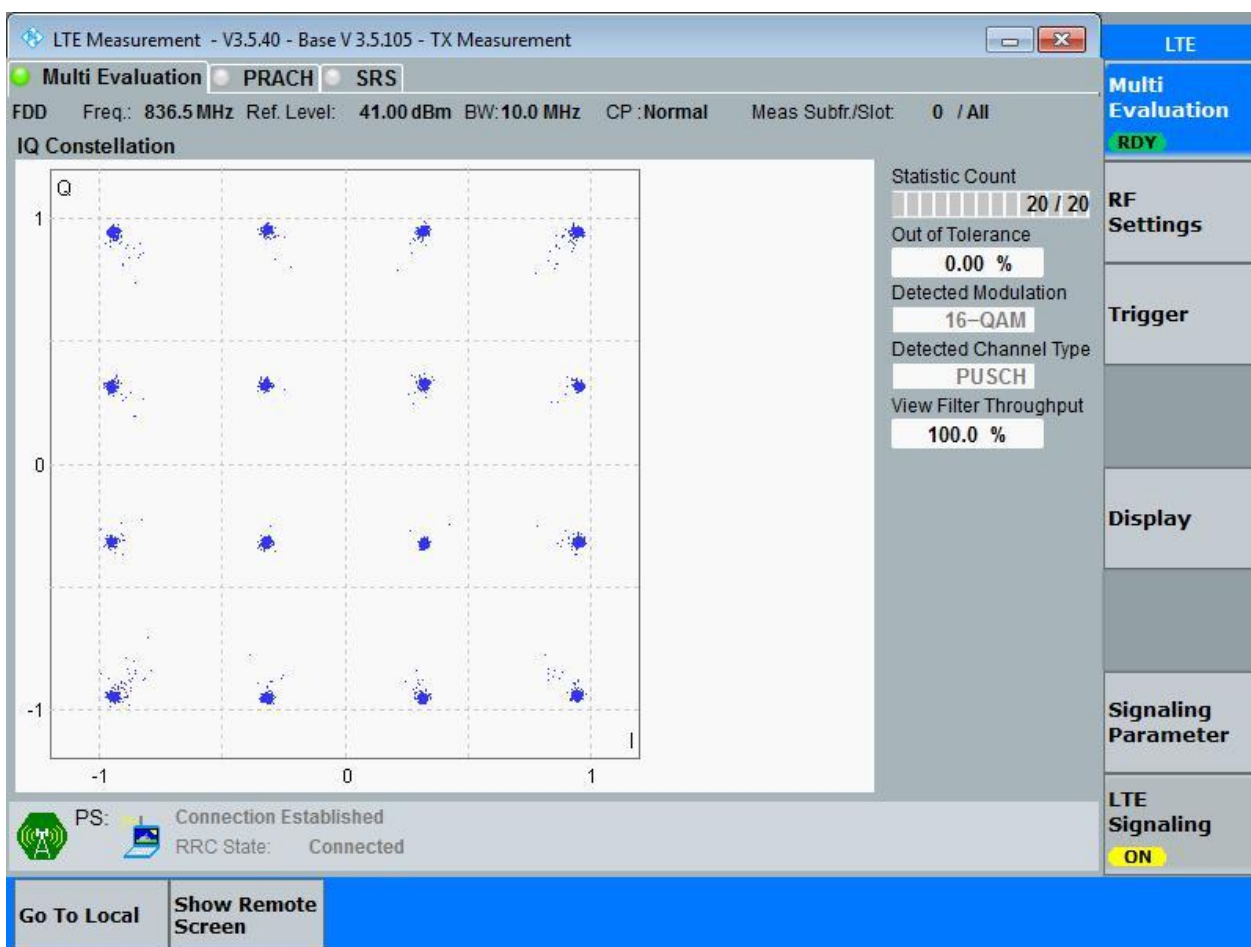
3.1.1.2.3.1.1 Test RB = RB25#0



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
BAND5	LTE/TM1	1.4	LCH	RB6#0	1.09	1.31	Pass
			MCH	RB6#0	1.09	1.29	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.70	2.99	Pass
			MCH	RB15#0	2.71	3.00	Pass
			HCH	RB15#0	2.70	3.01	Pass
		5	LCH	RB25#0	4.52	5.01	Pass
			MCH	RB25#0	4.49	4.98	Pass
			HCH	RB25#0	4.49	5.01	Pass
		10	LCH	RB50#0	9.00	9.96	Pass
			MCH	RB50#0	8.95	9.90	Pass
			HCH	RB50#0	8.99	9.91	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.32	Pass
			MCH	RB6#0	1.09	1.30	Pass
			HCH	RB6#0	1.09	1.22	Pass
		3	LCH	RB15#0	2.71	3.01	Pass
			MCH	RB15#0	2.70	3.00	Pass
			HCH	RB15#0	2.70	2.99	Pass
		5	LCH	RB25#0	4.50	5.05	Pass
			MCH	RB25#0	4.49	4.95	Pass
			HCH	RB25#0	4.49	5.00	Pass
		10	LCH	RB50#0	8.99	10.01	Pass
			MCH	RB50#0	8.98	9.86	Pass
			HCH	RB50#0	8.97	9.91	Pass



Part II - Test Plots

4.1 For LTE

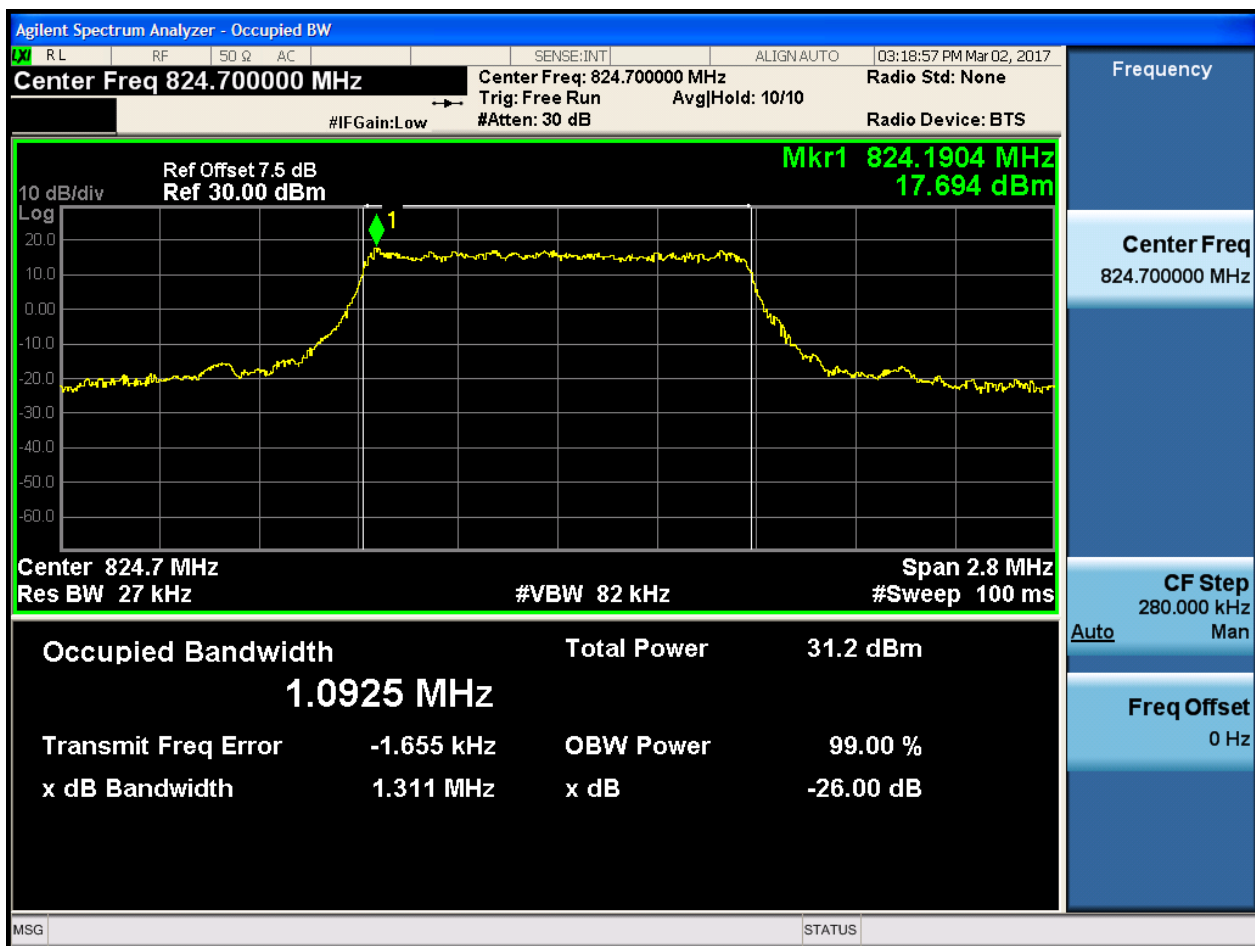
4.1.1 Test Band = BAND5

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

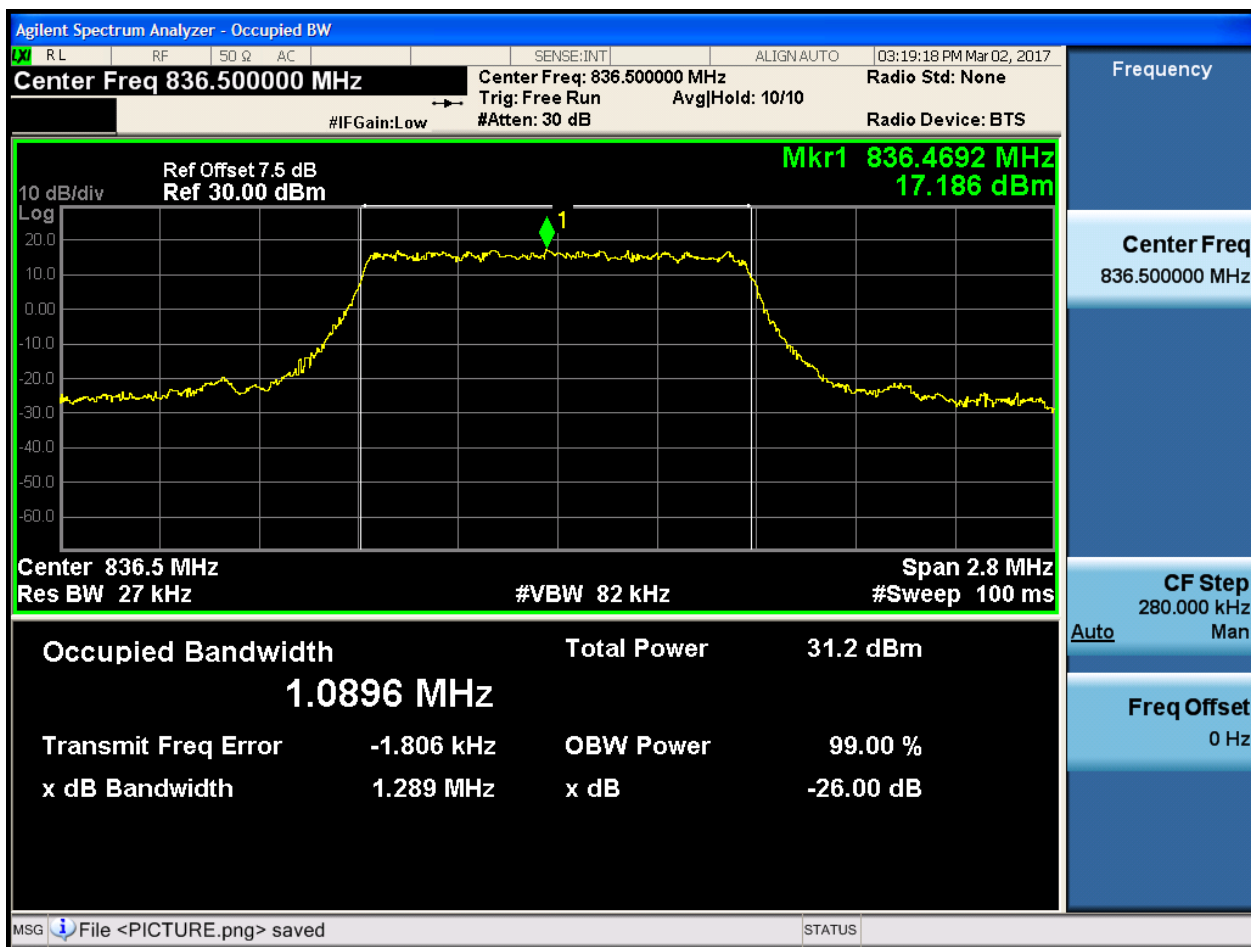
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

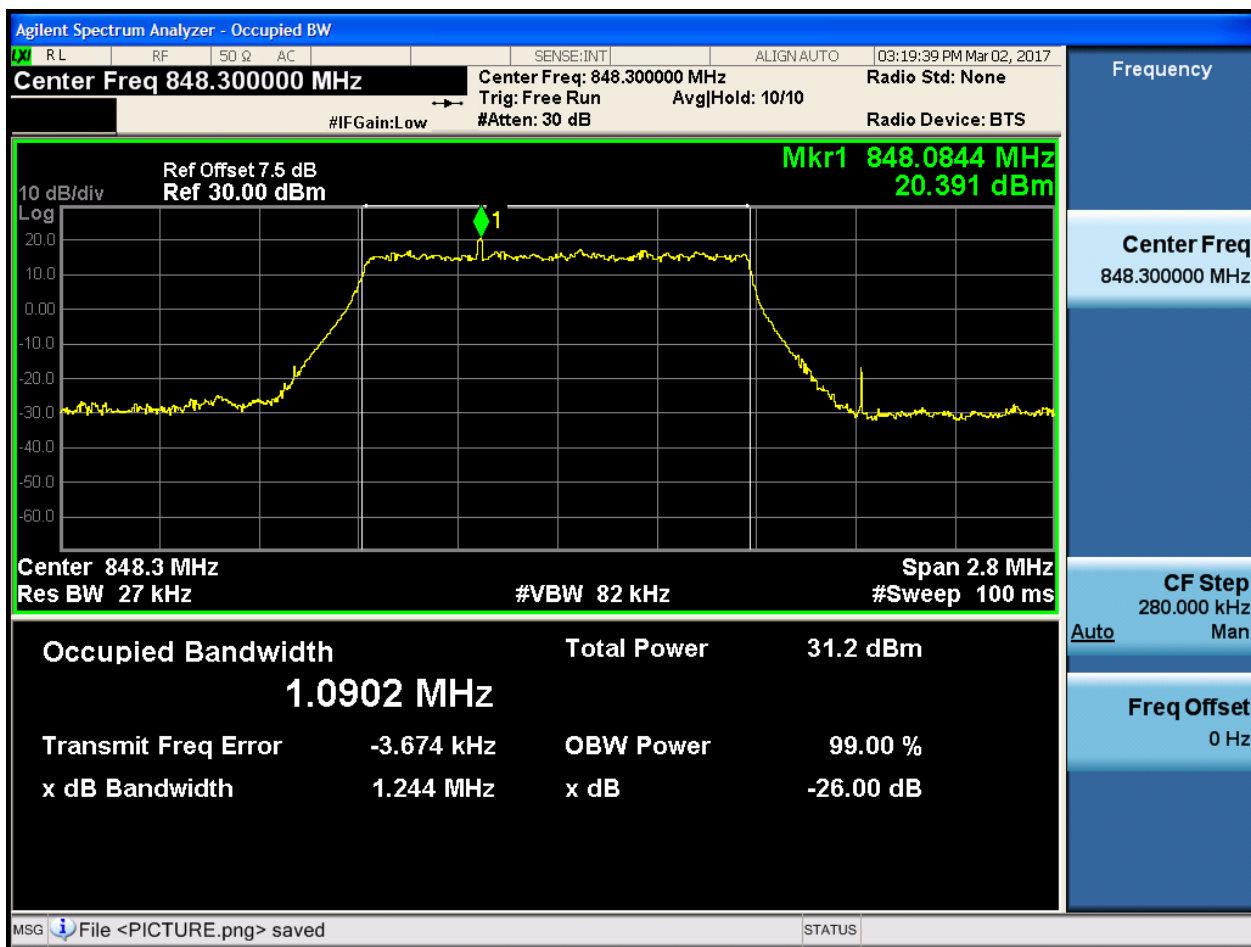
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

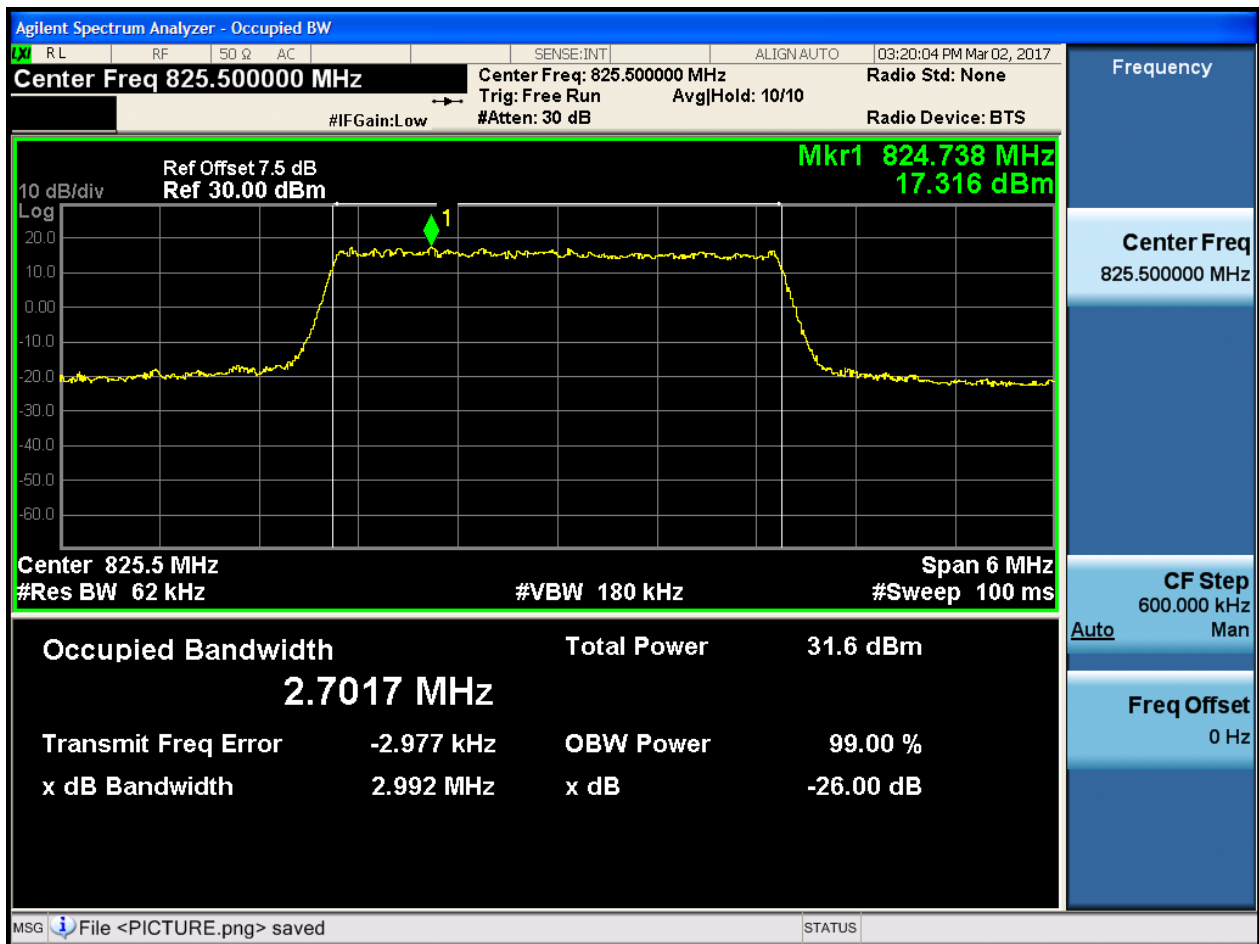




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

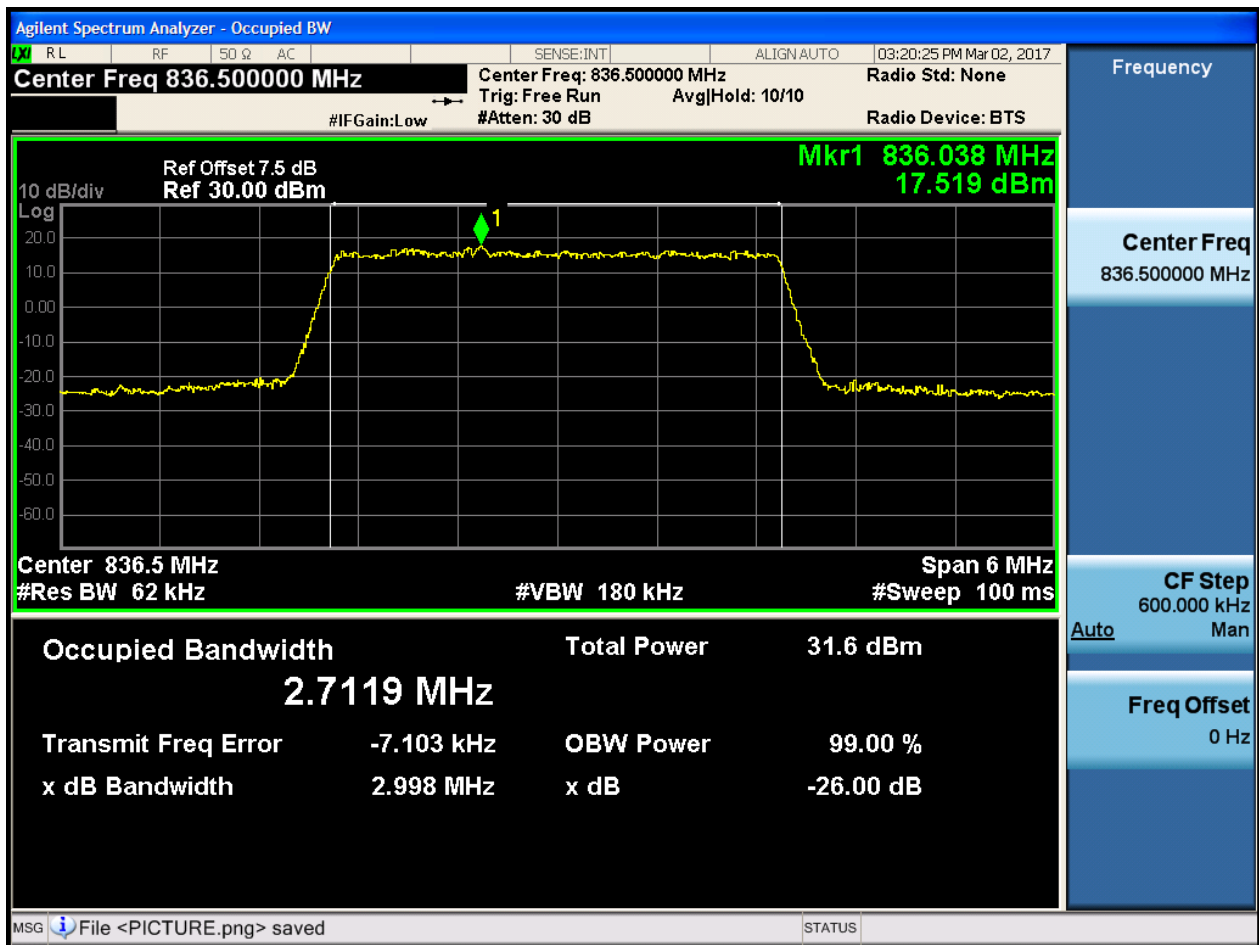
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

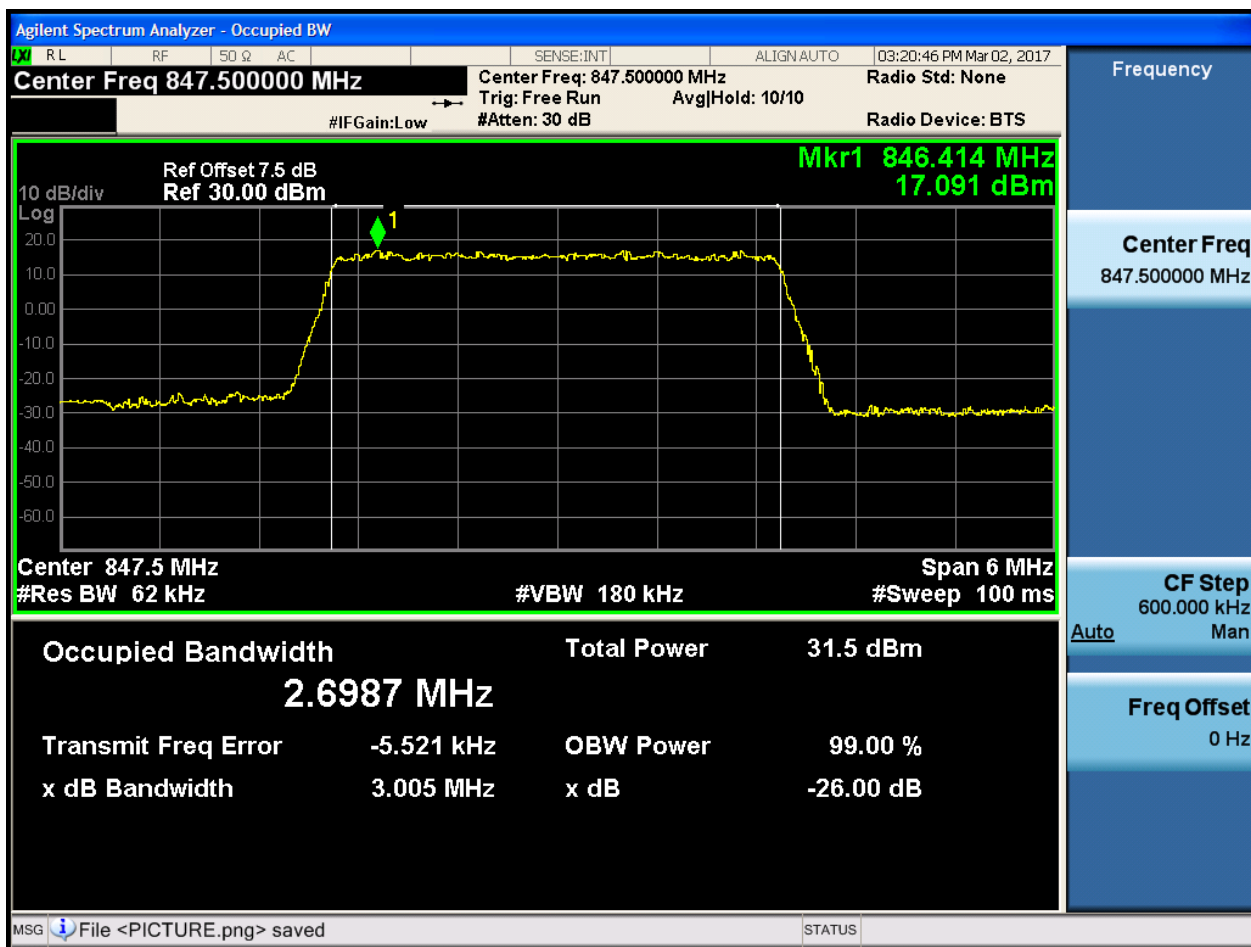
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

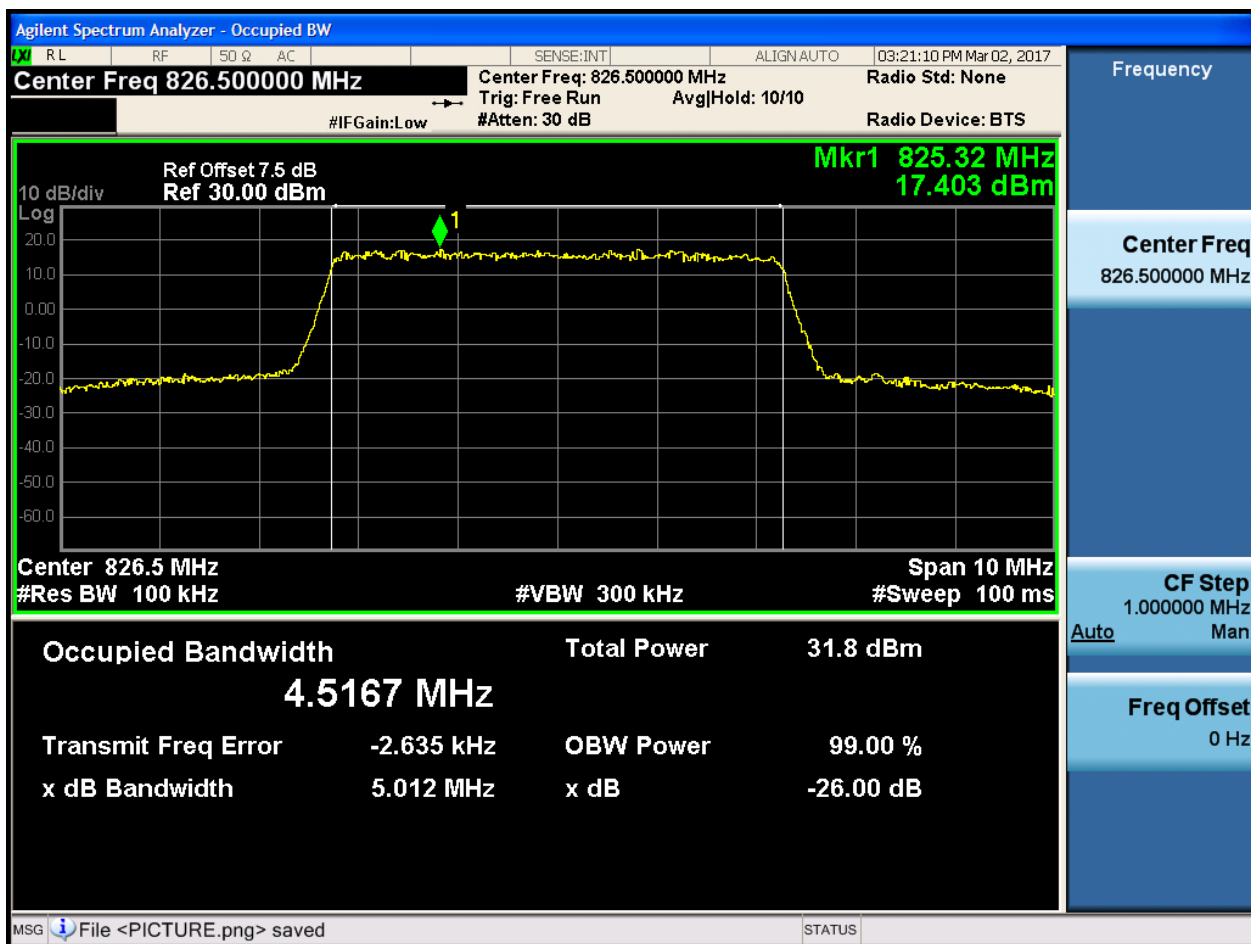




4.1.1.1.3 Test Bandwidth = 5

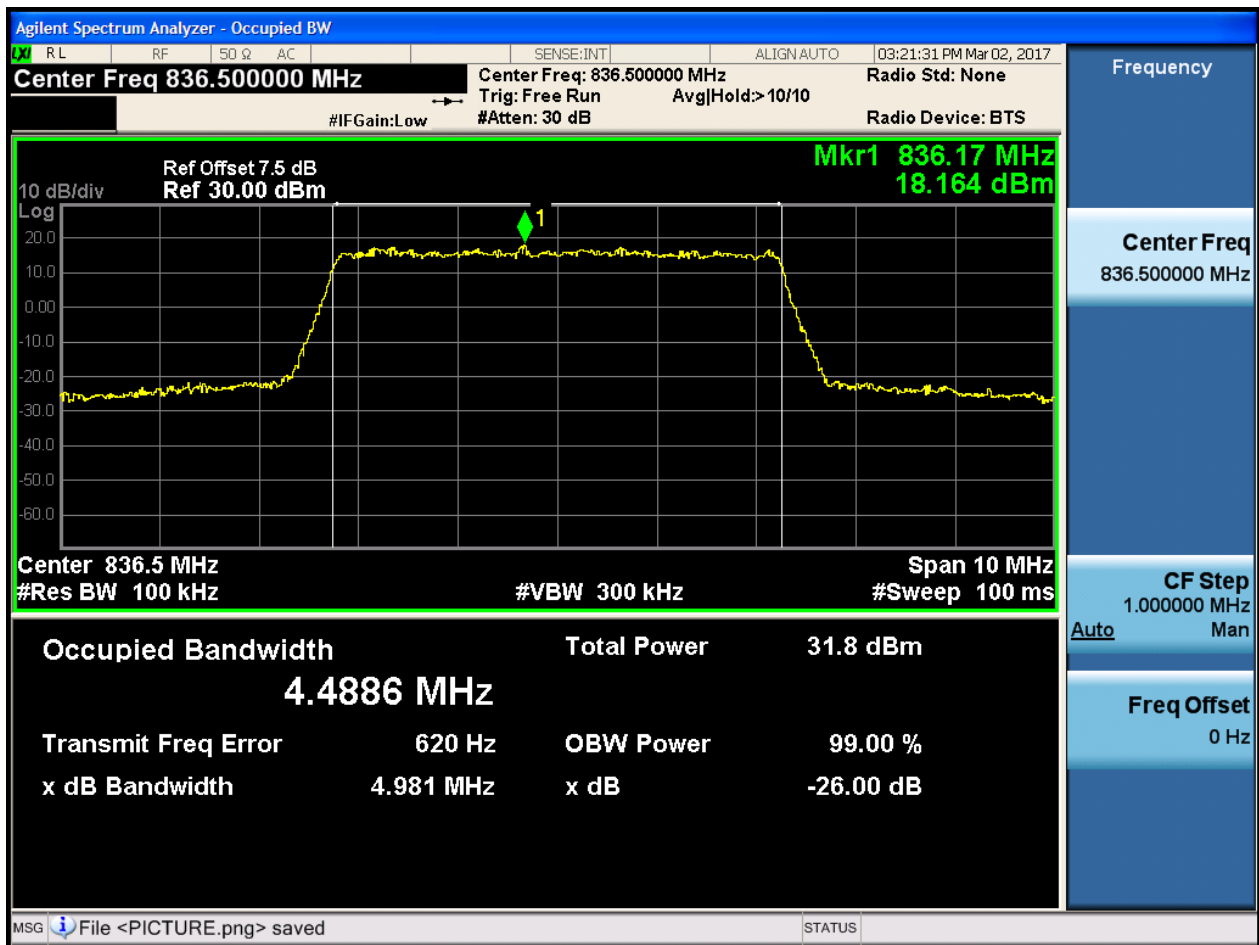
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



4.1.1.1.3.2 Test Channel = MCH

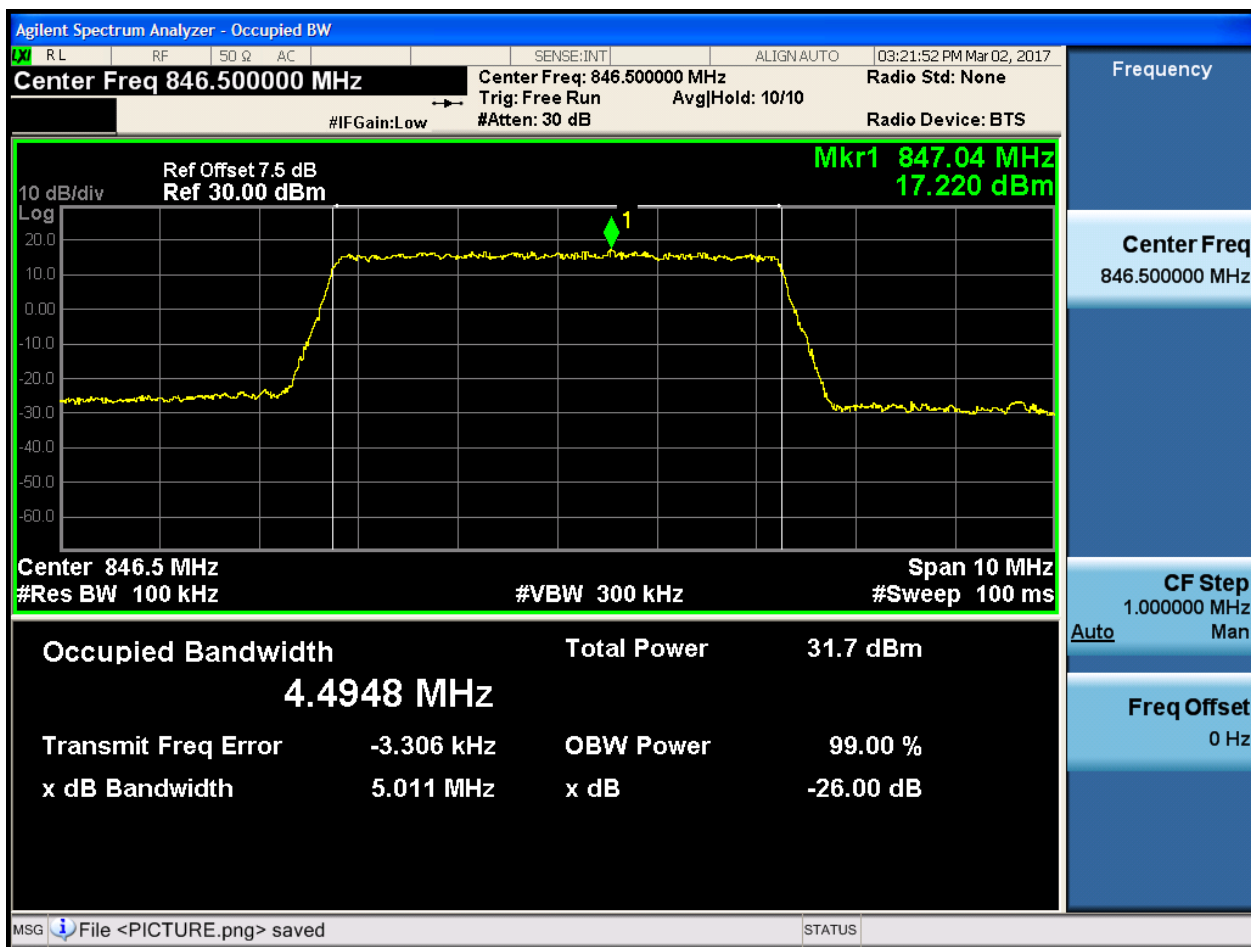
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

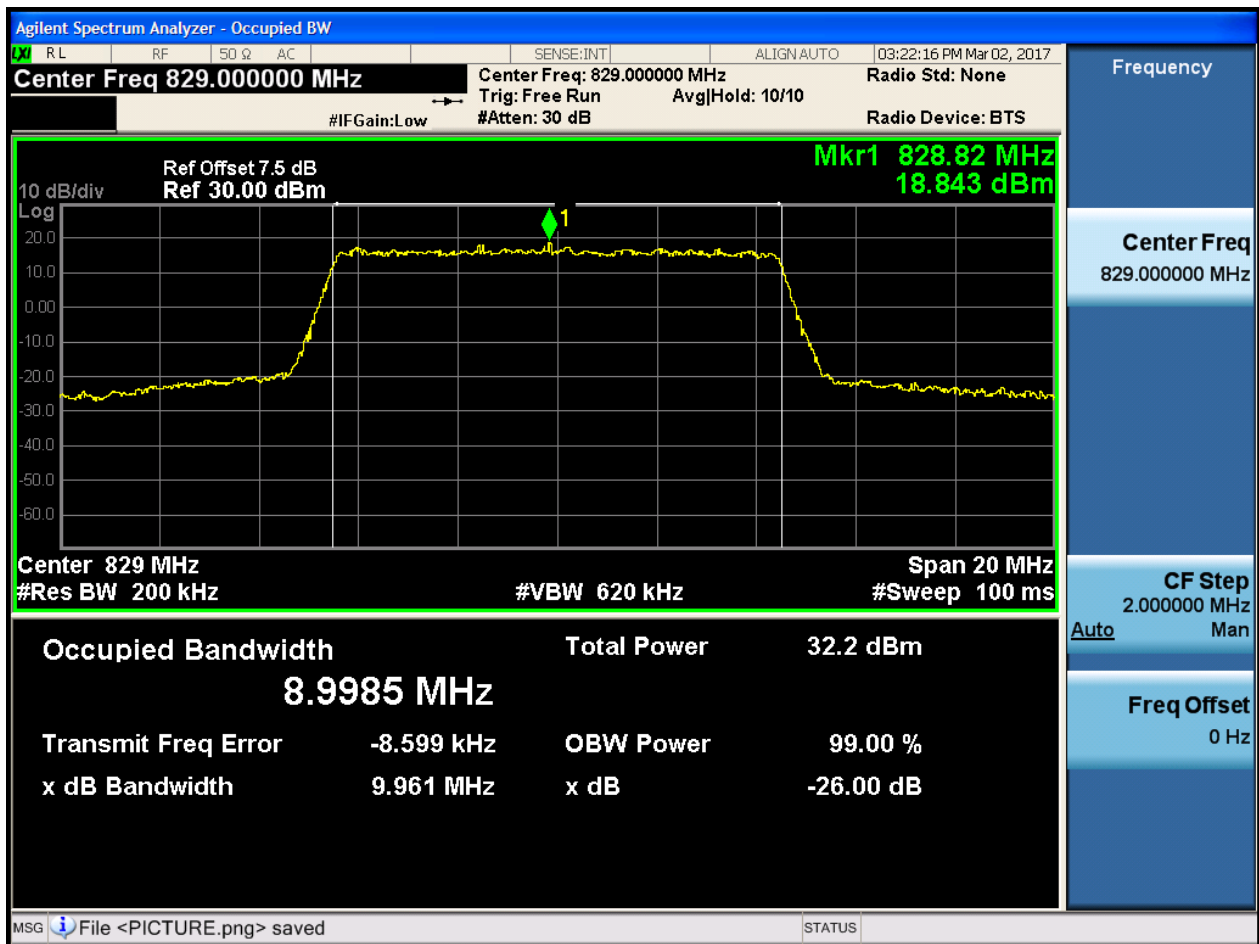




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

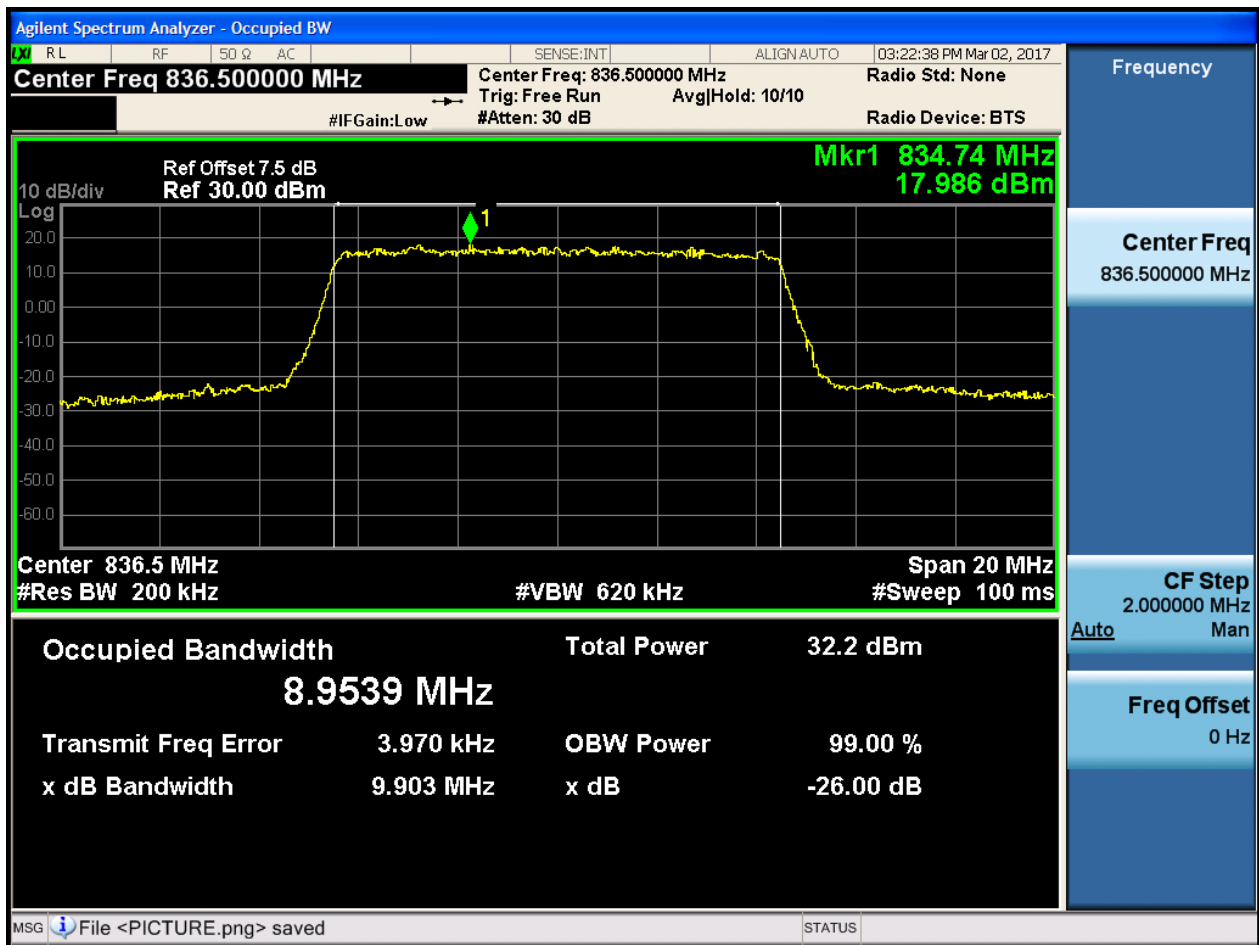
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

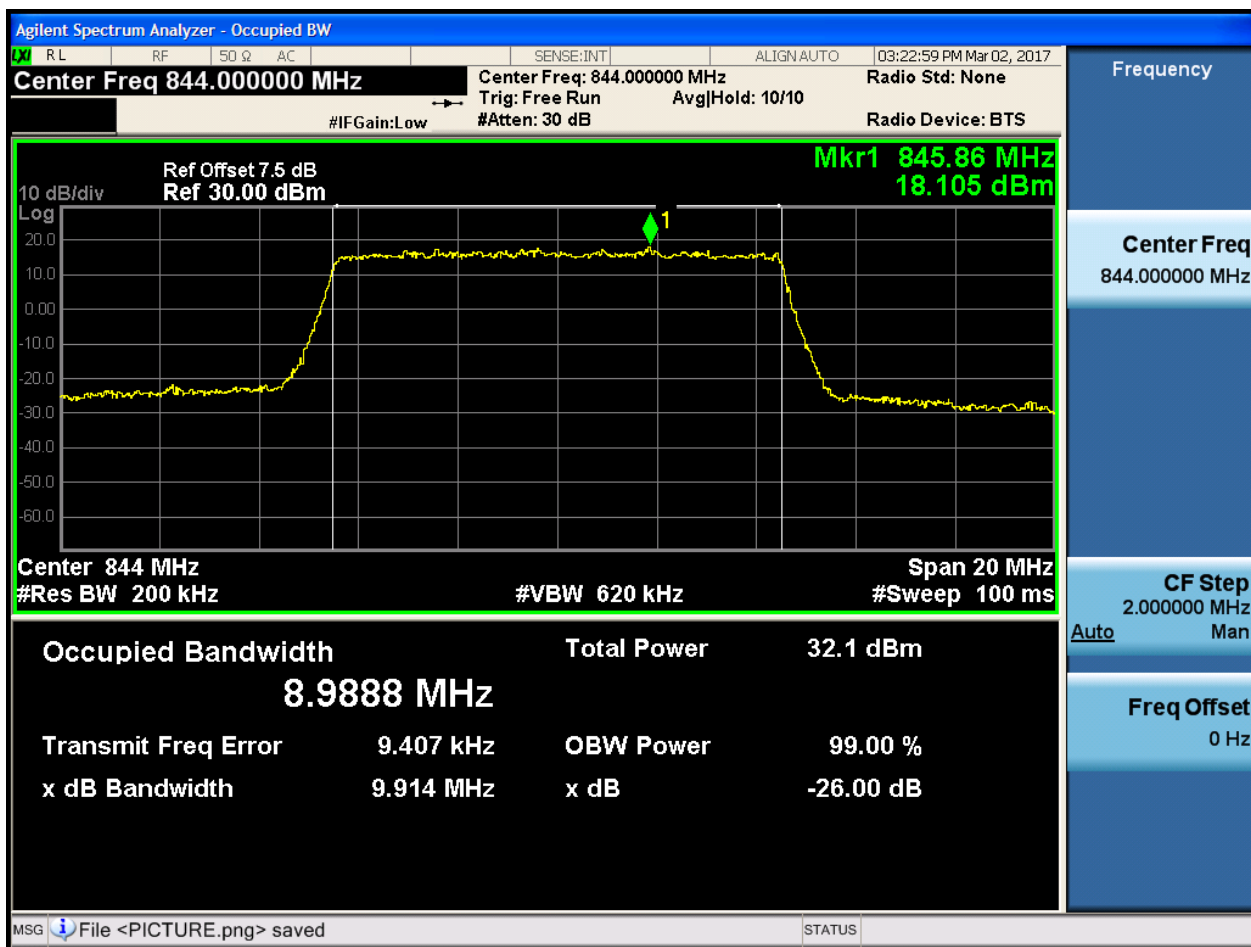
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



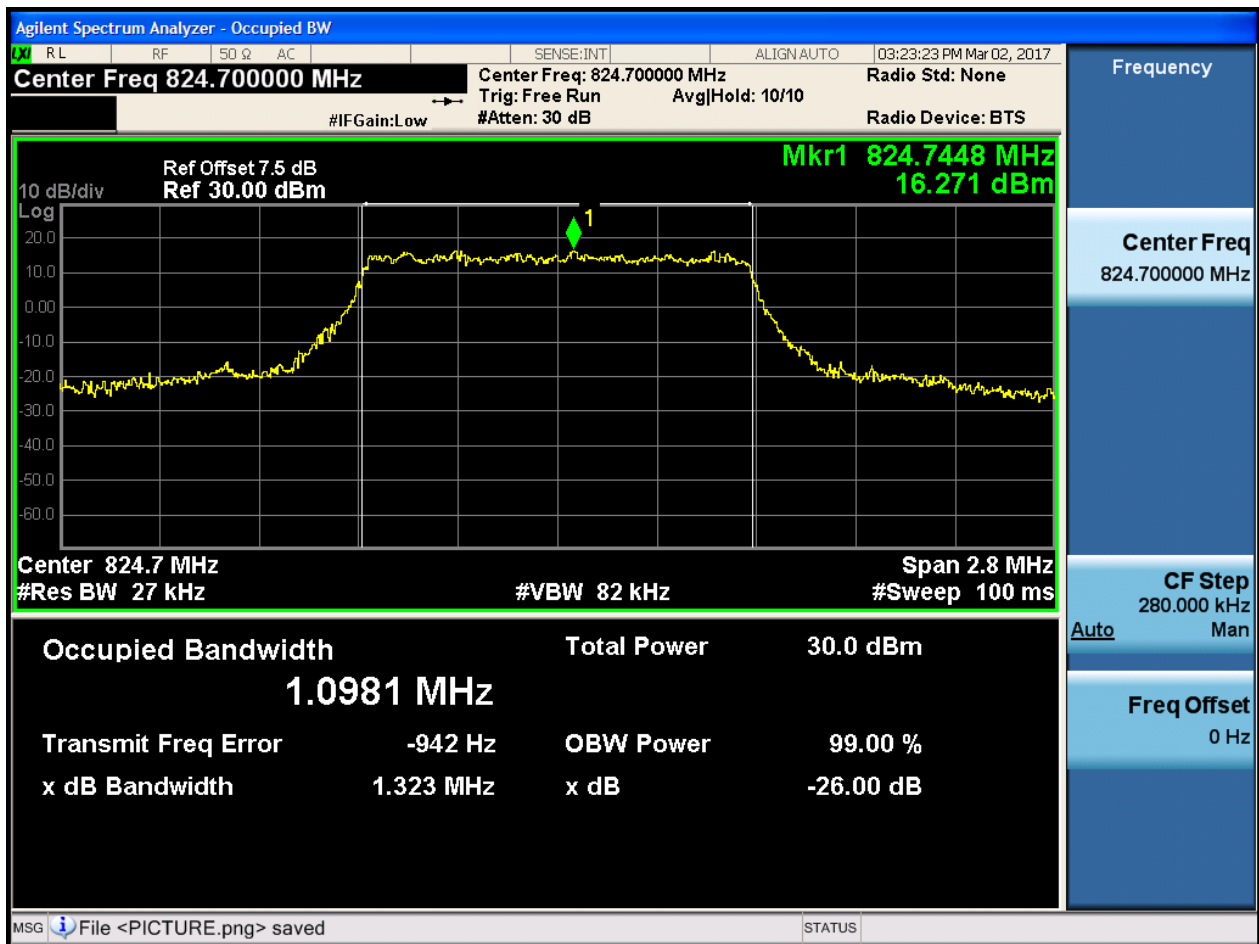


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

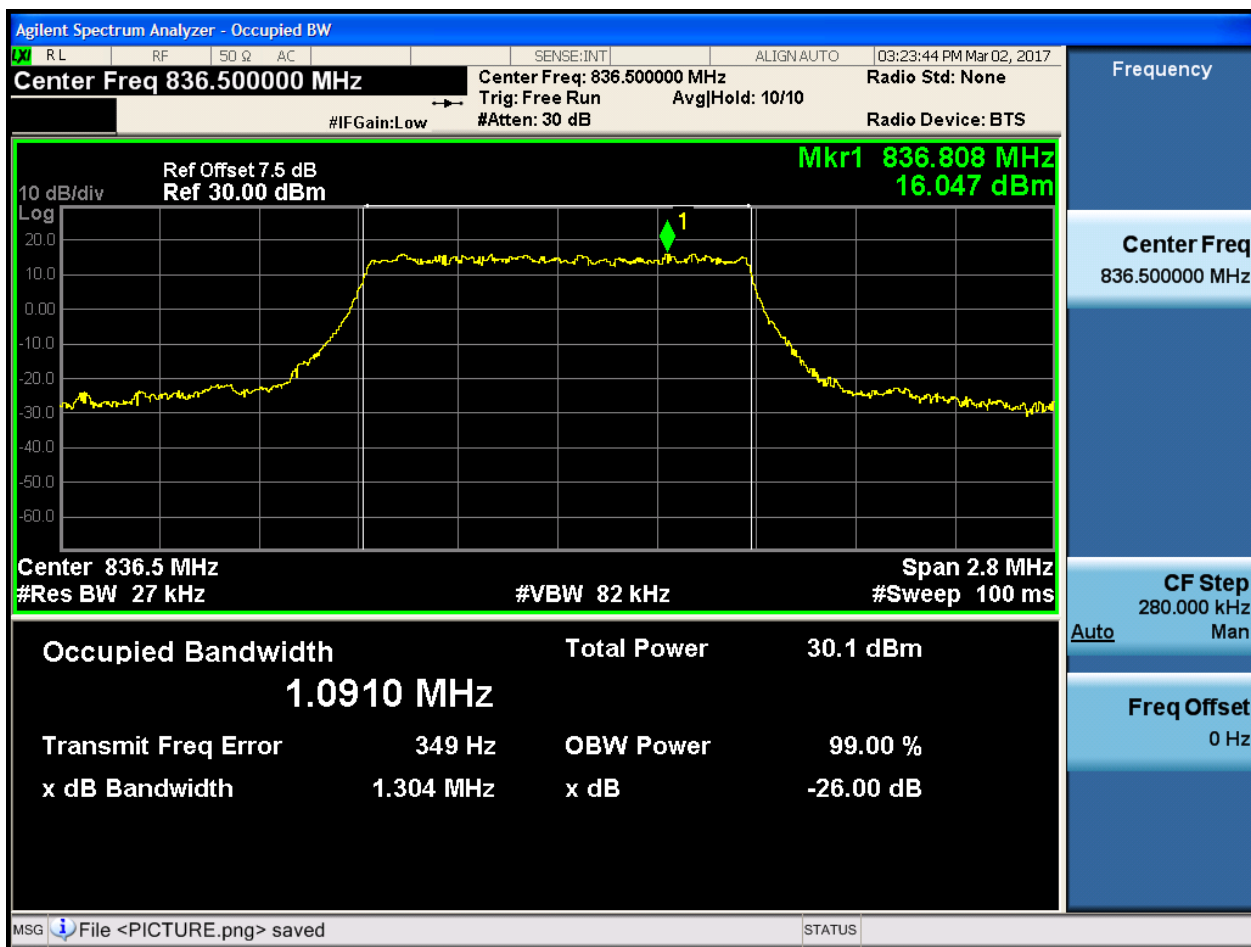
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

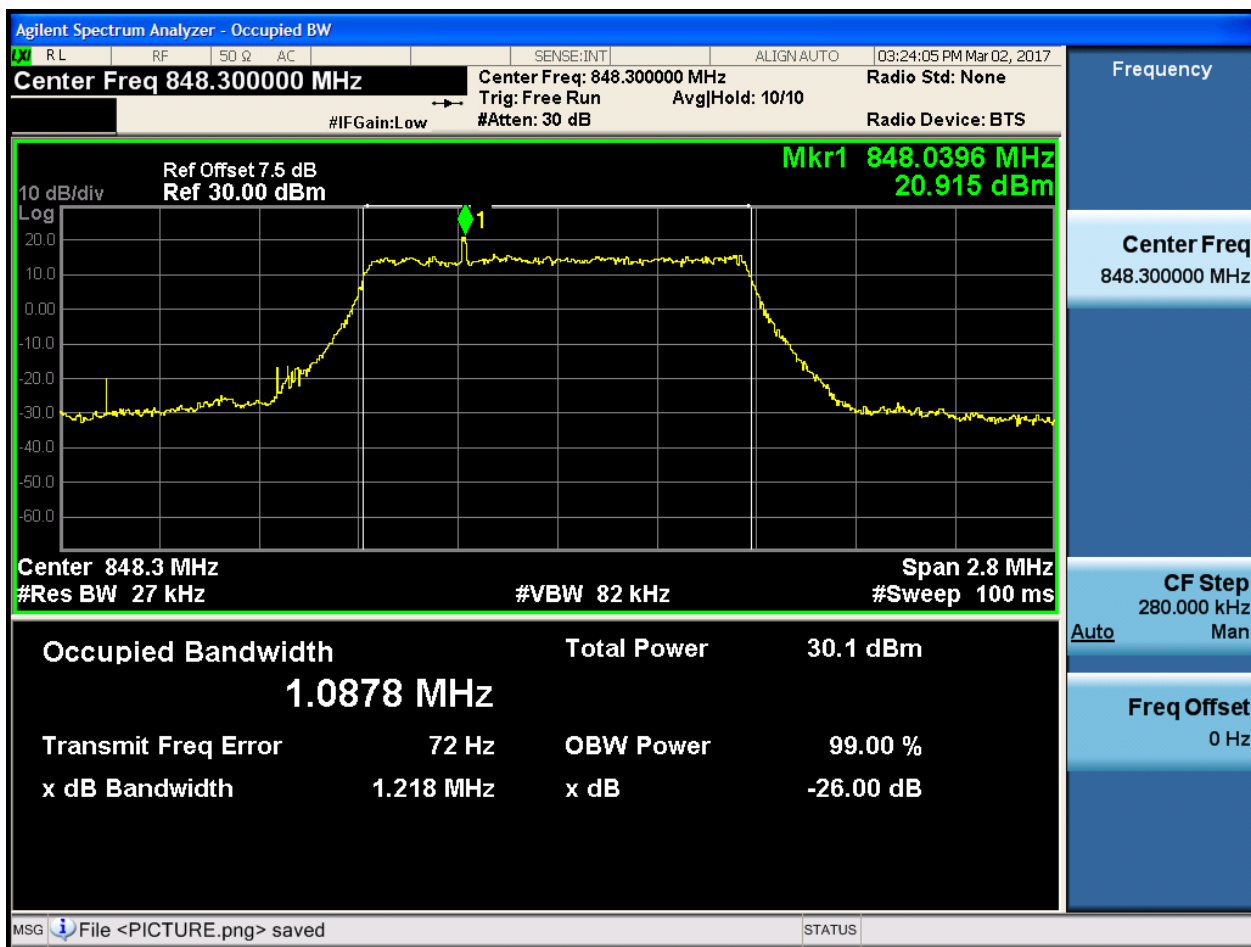
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

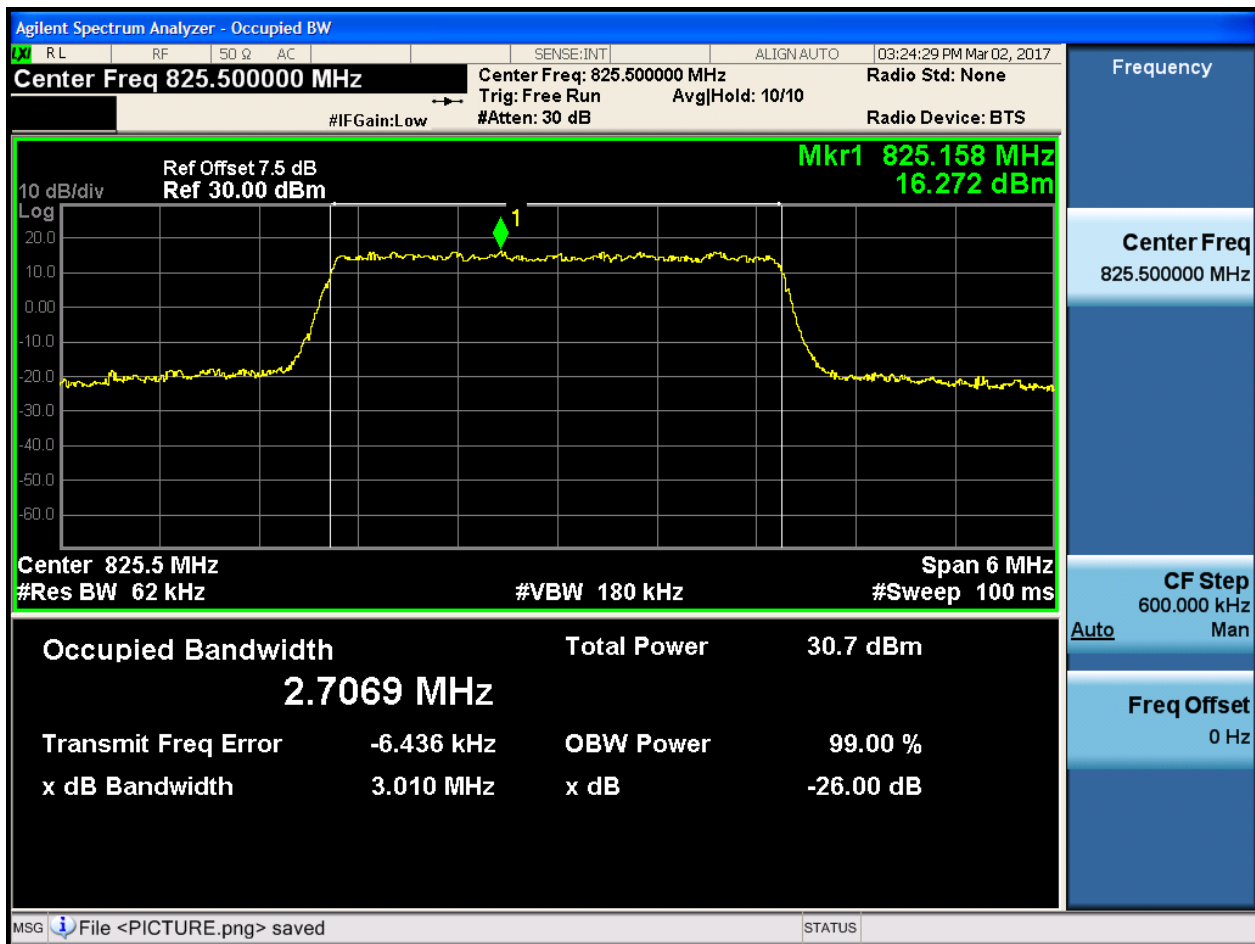




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

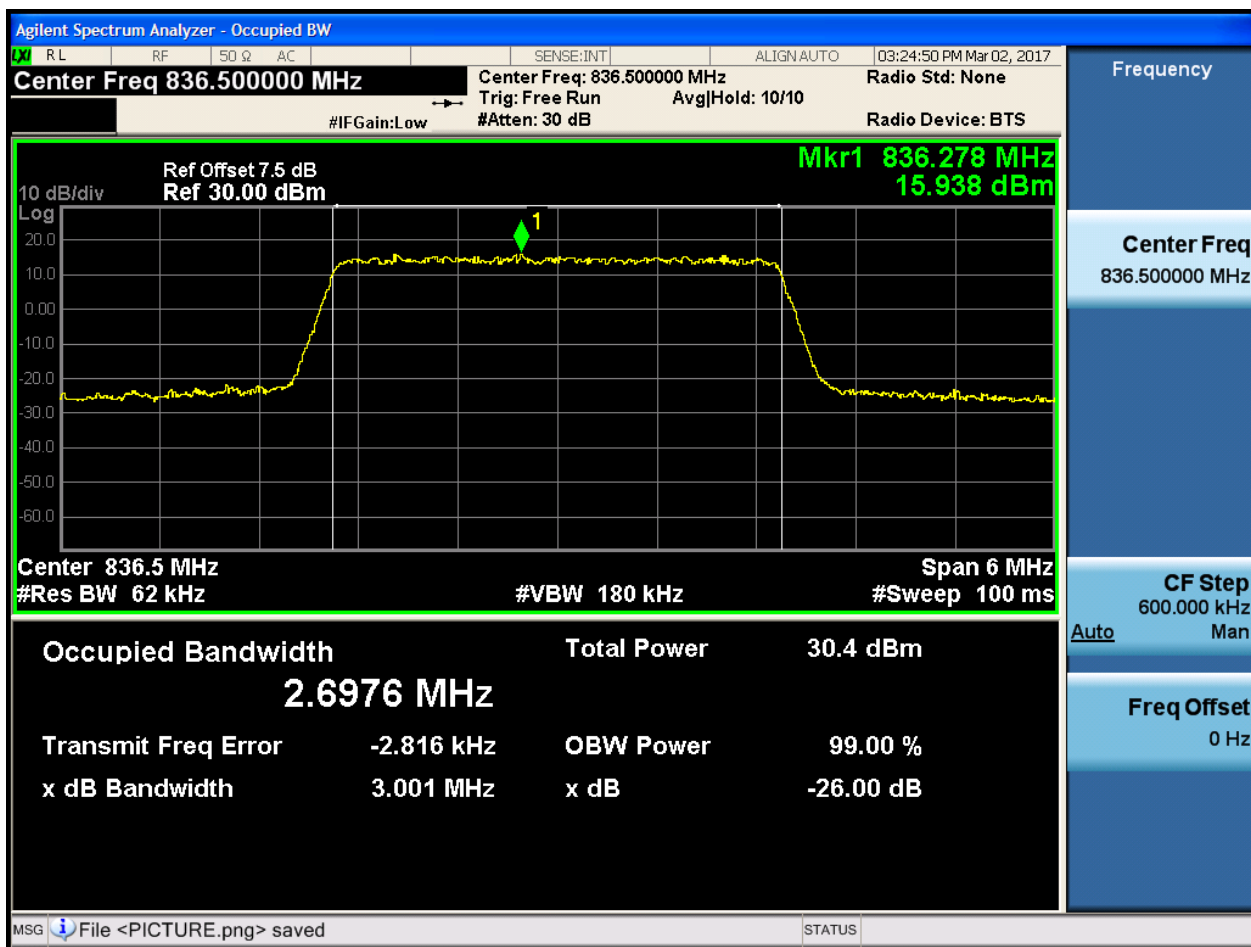
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

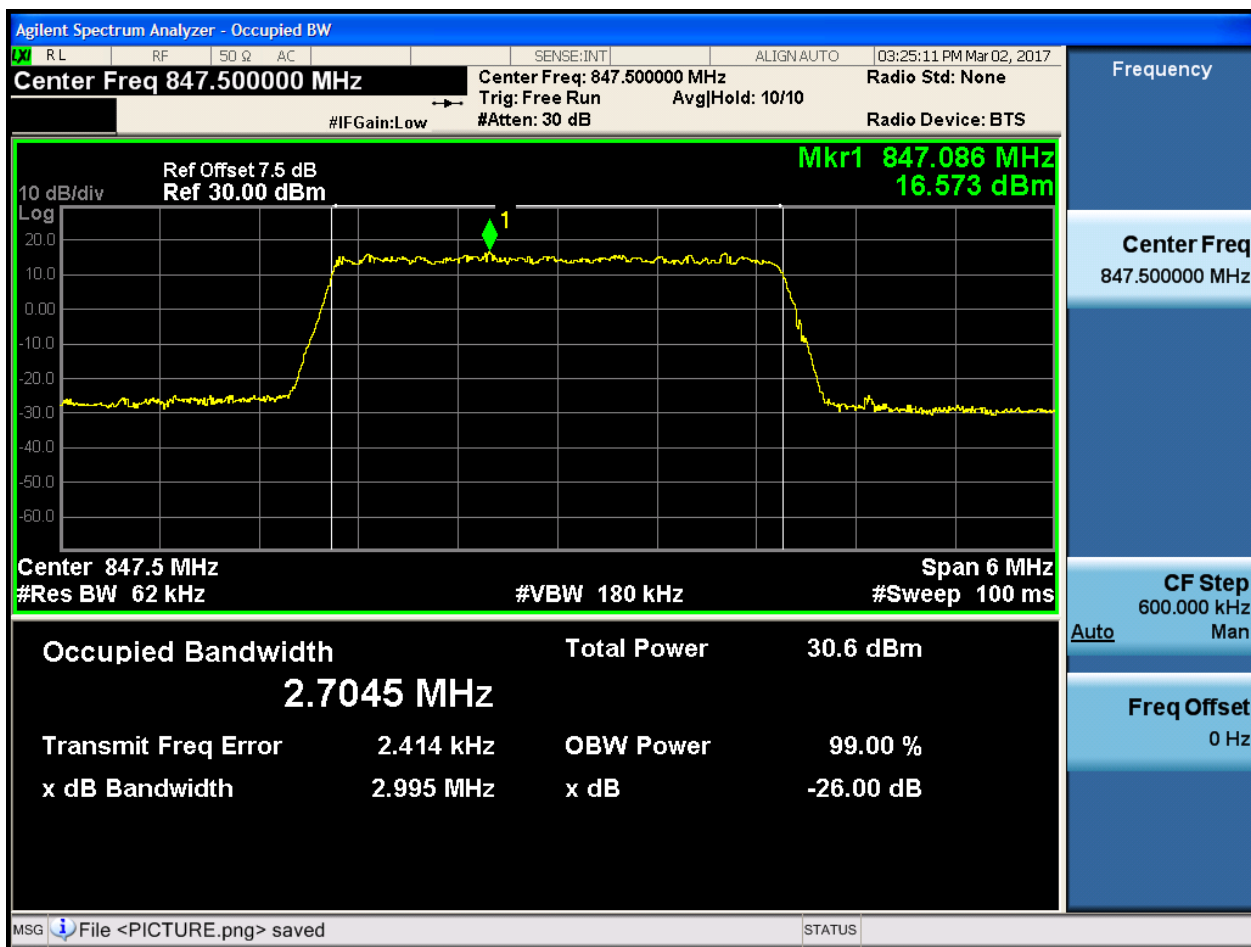
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

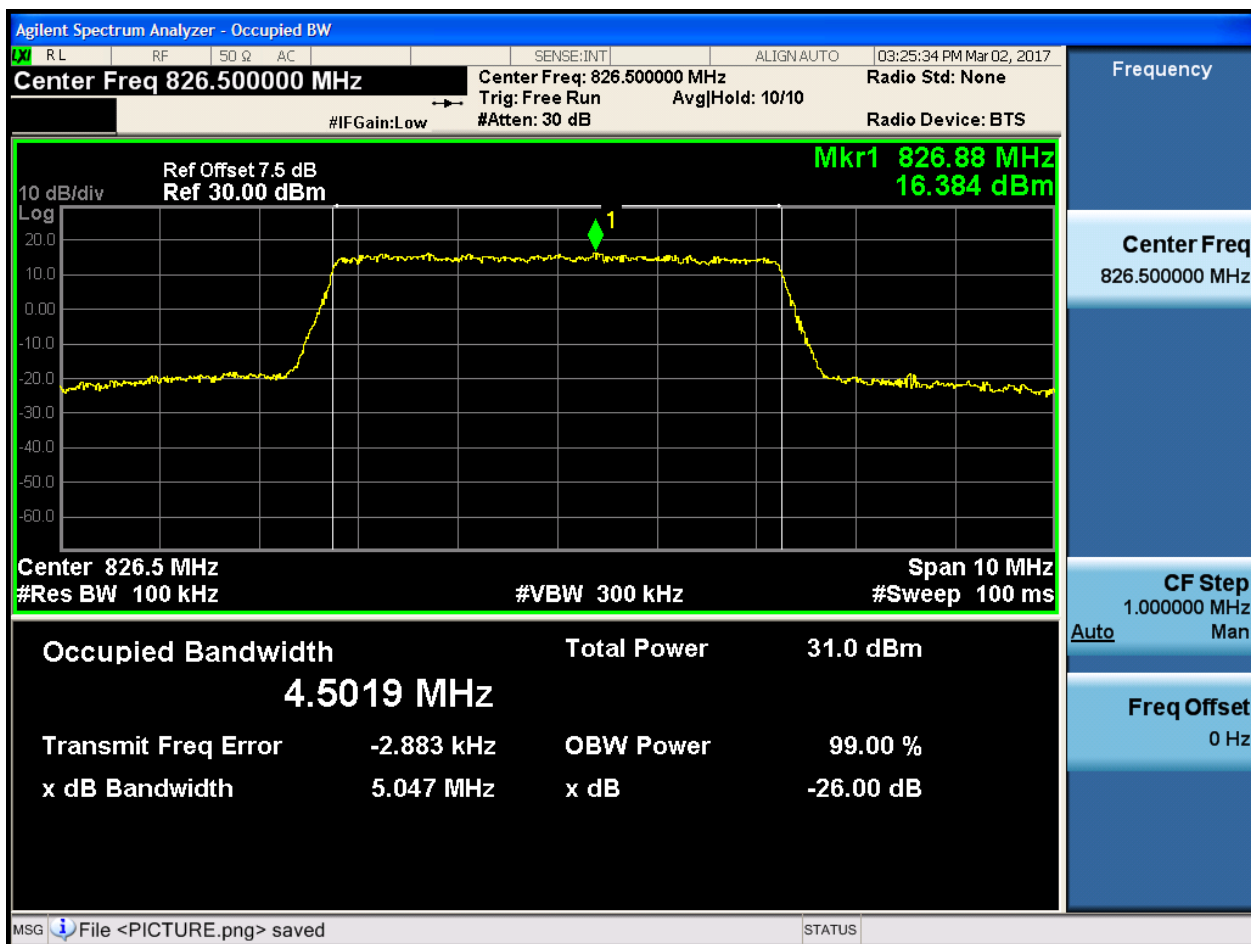




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

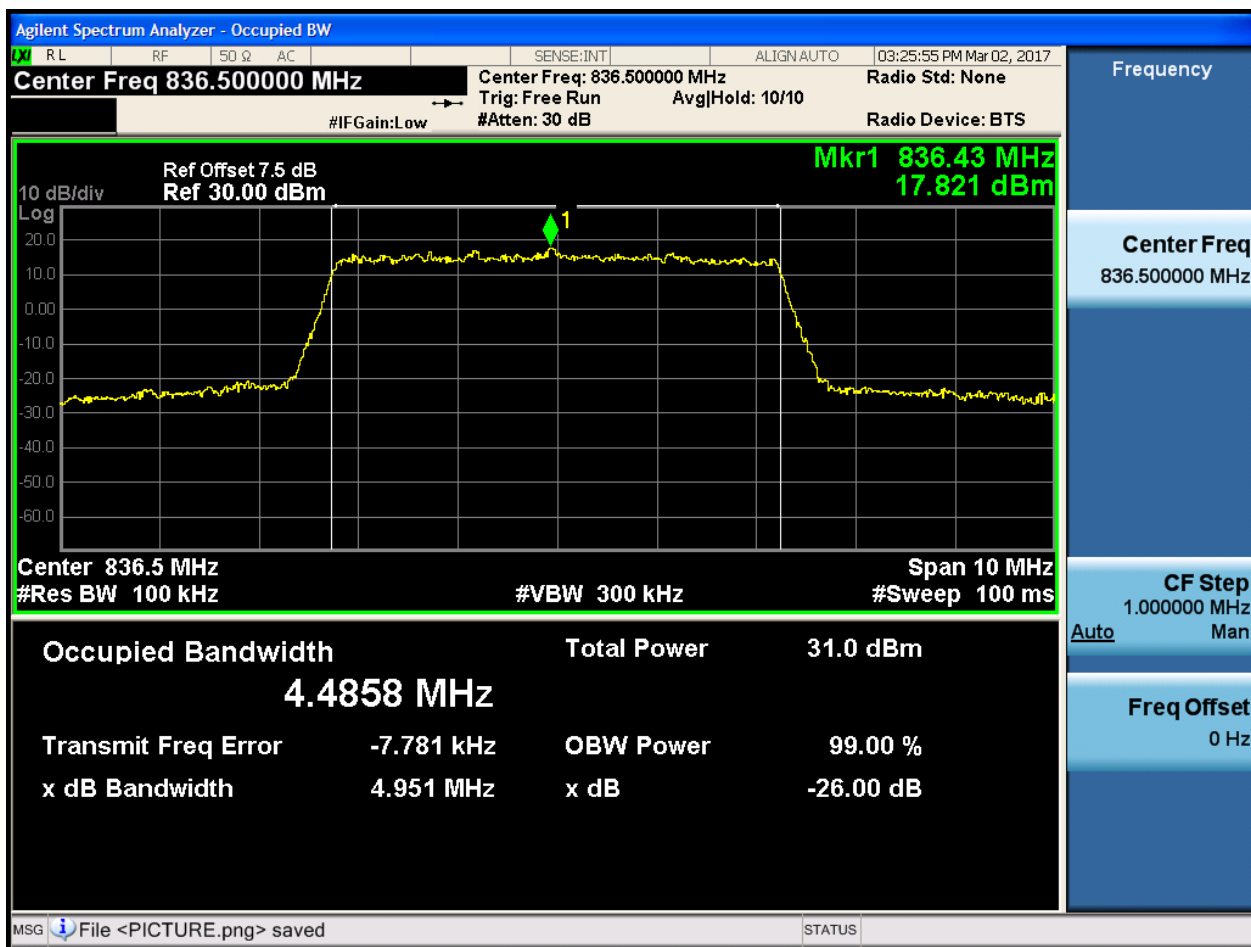
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

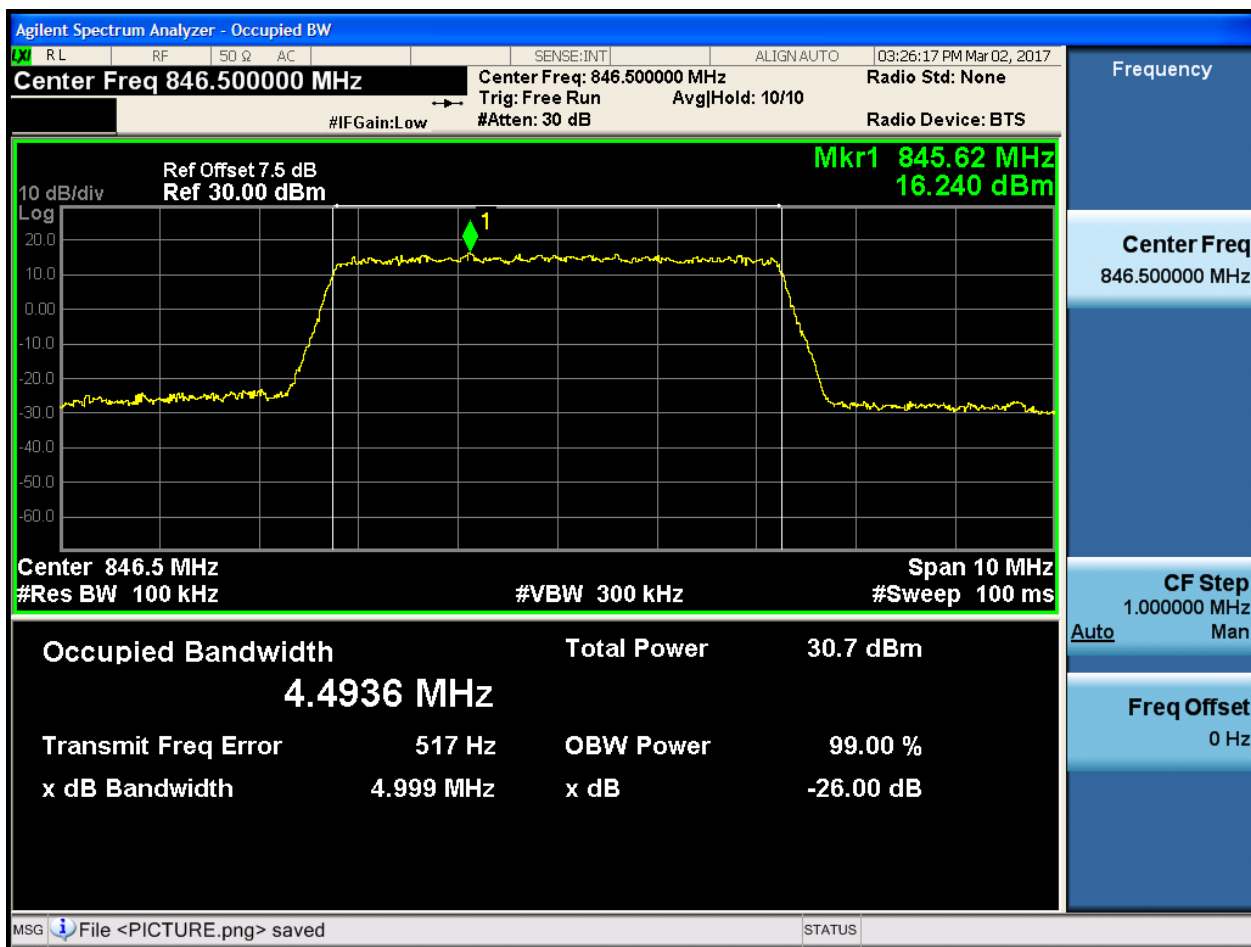
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

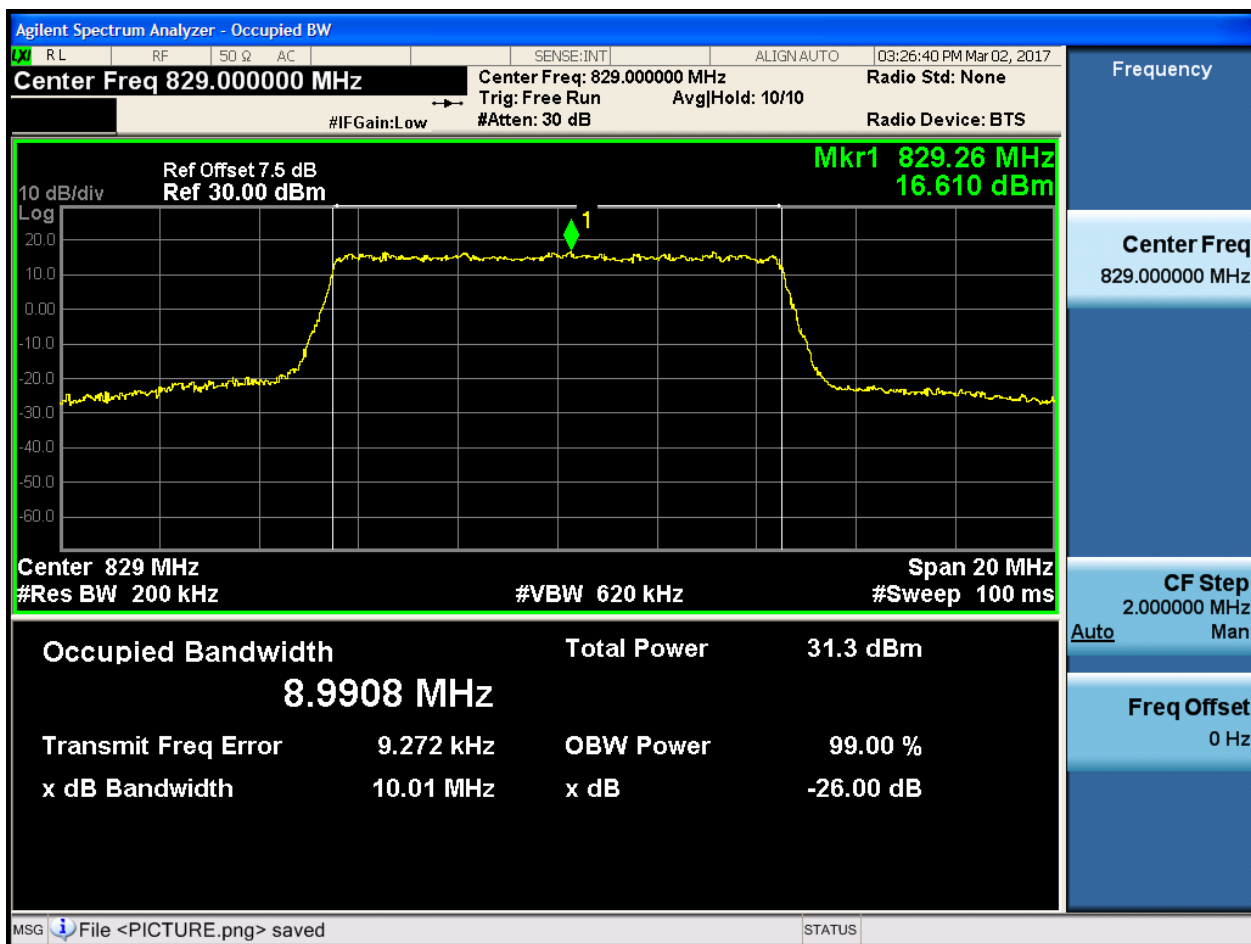




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

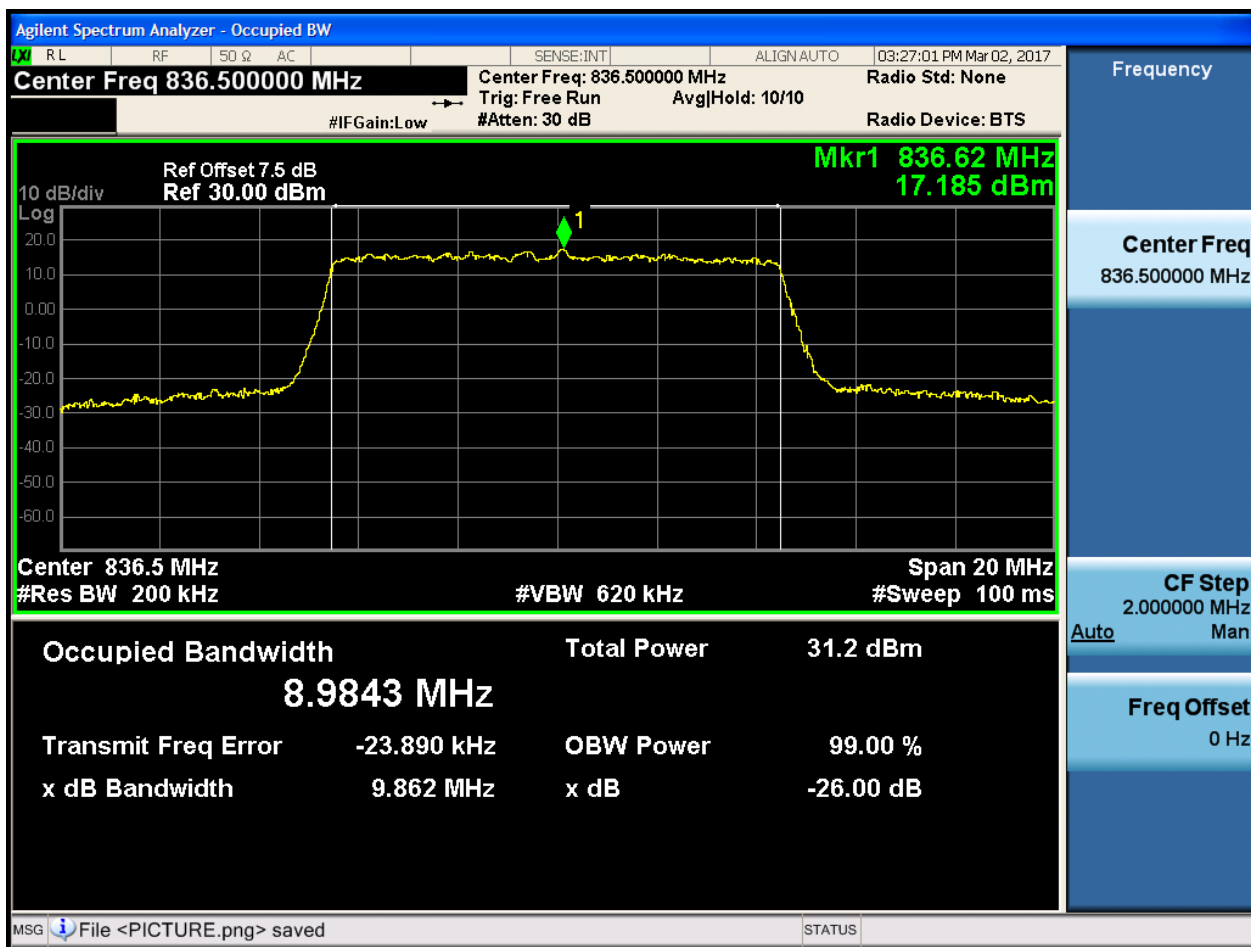
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

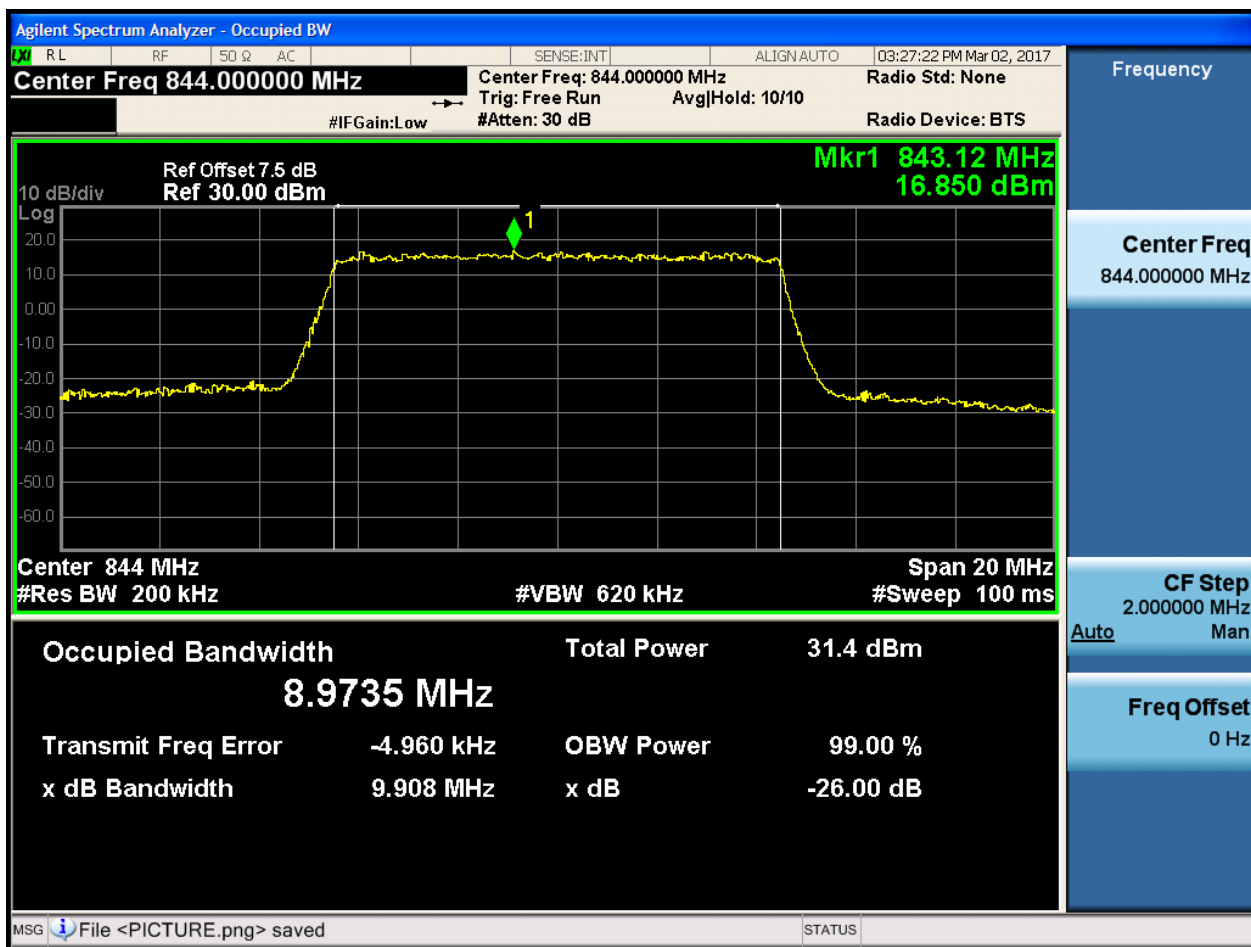
4.1.1.2.4.2.1 Test RB = RB50#0





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

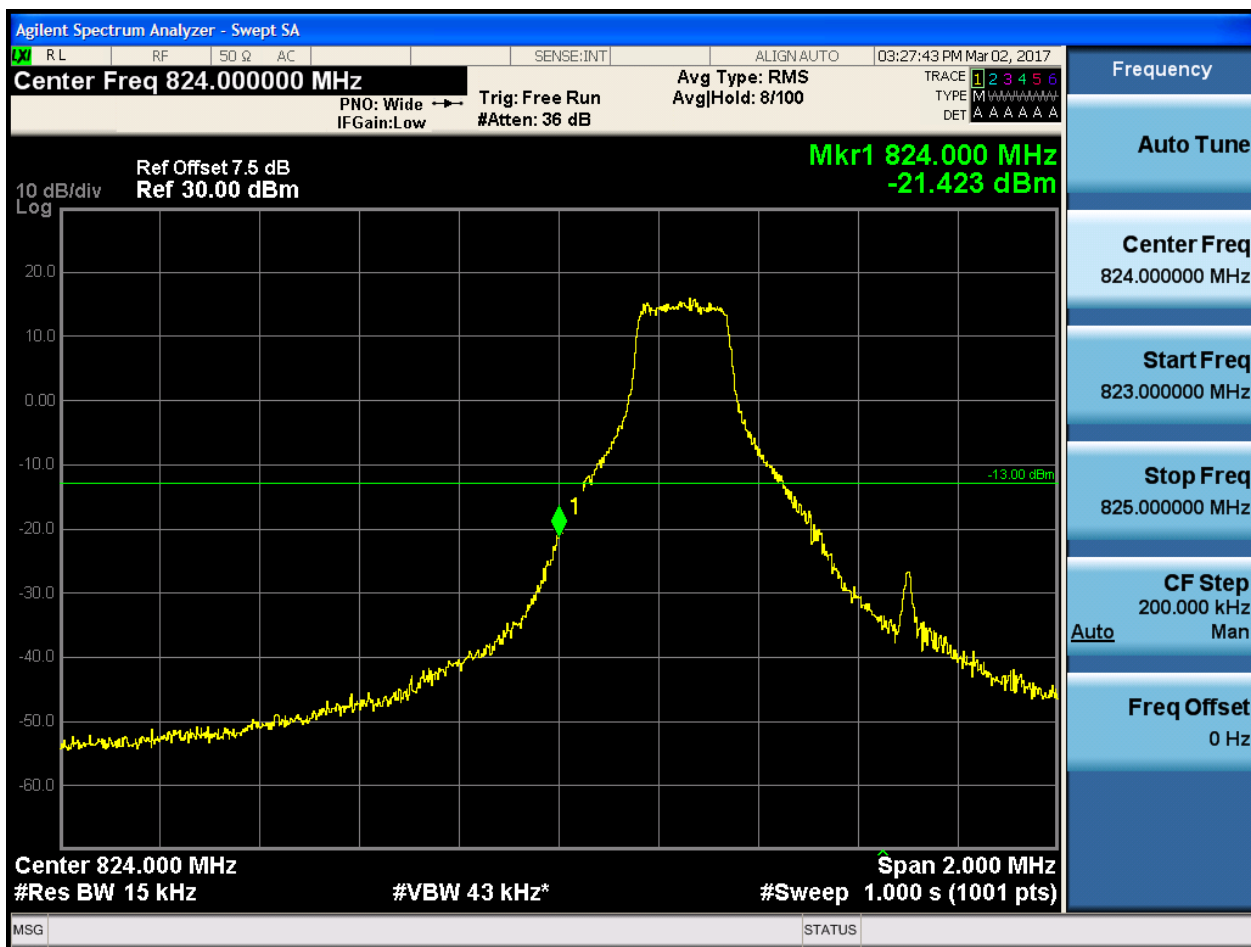
5.1.1 Test Band = BAND5

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

Center Freq 824.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-32.206 dBm

Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

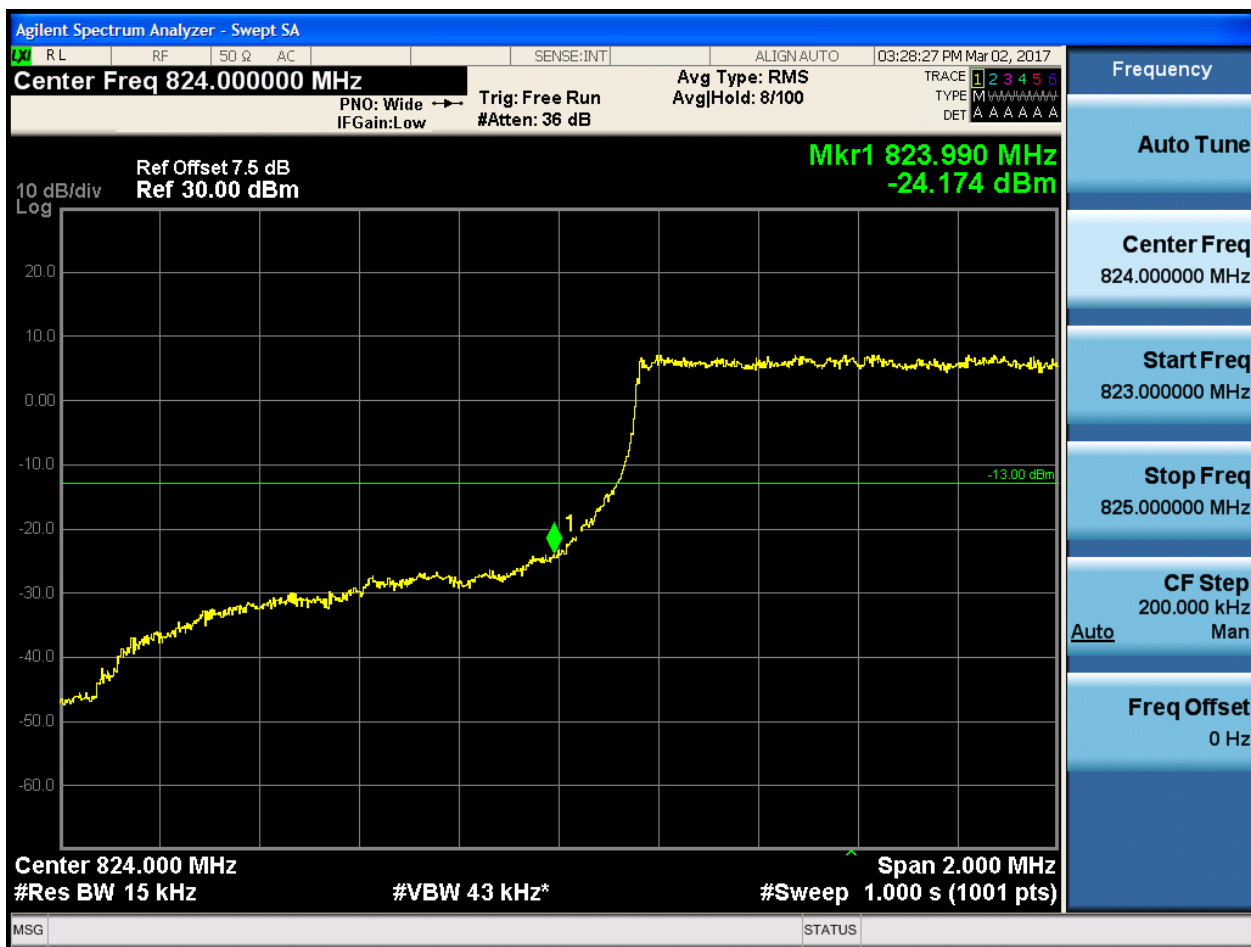
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



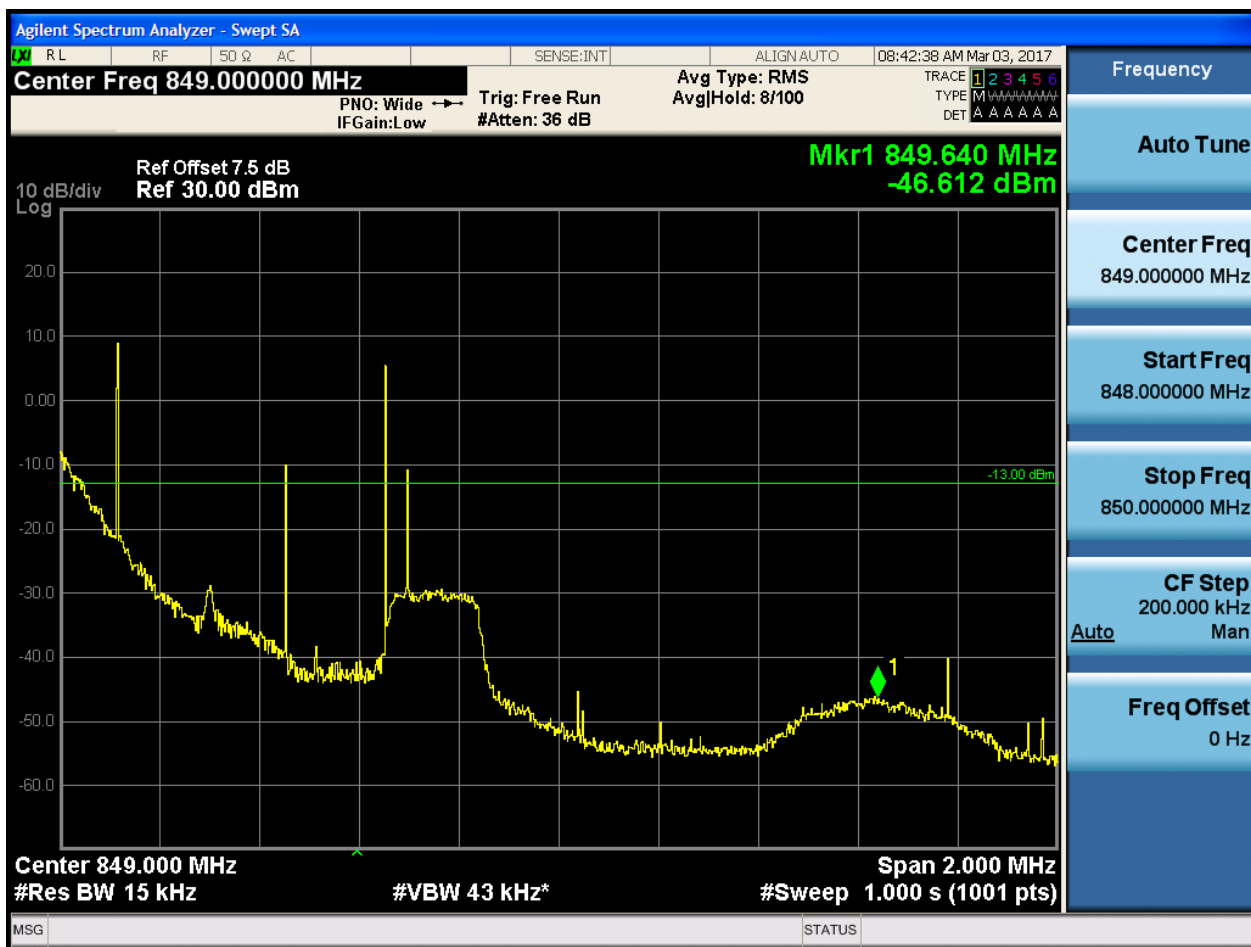
5.1.1.1.1.4 Test RB = RB6#0





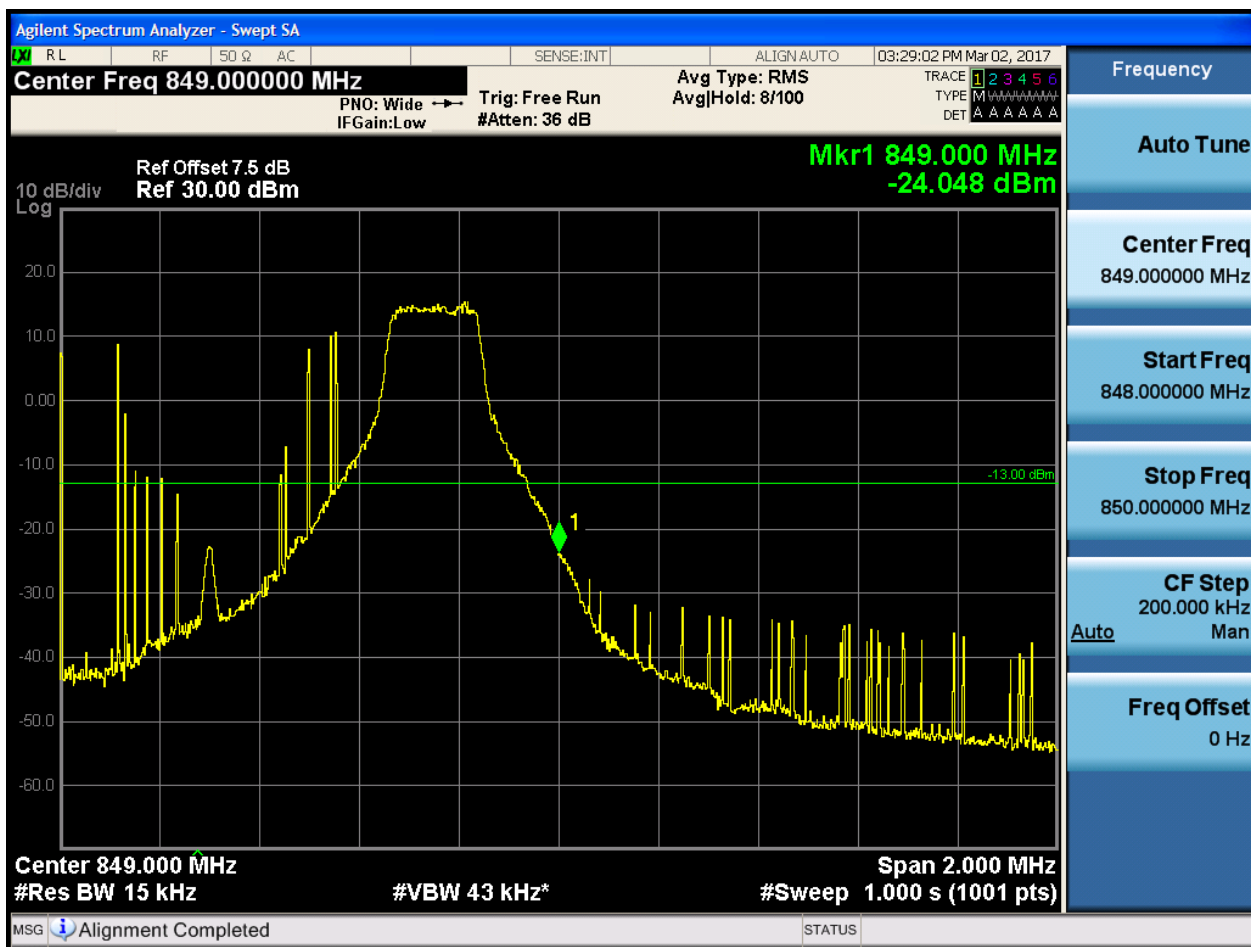
5.1.1.1.1.2 Test Channel = HCH

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

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Mkr1 849.000 MHz
-24.961 dBm

-13.00 dBm

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

MSG

STATUS

The image shows a screenshot of an Agilent Spectrum Analyzer interface. The main display is a frequency spectrum plot with a yellow trace. The x-axis represents frequency, and the y-axis represents power in dBm. A green horizontal line is drawn at -13.00 dBm. A yellow marker labeled '1' is placed on the trace at approximately 849.000 MHz, indicating a power level of -24.961 dBm. The plot shows a signal that is relatively flat around 10 dBm between 848 MHz and 849 MHz, then drops sharply to around -40 dBm by 850 MHz. The interface includes various control panels and status indicators.

Parameter	Value
Center Freq	849.000000 MHz
Ref Offset	7.5 dB
Ref	30.00 dBm
Marker 1 Freq	849.000 MHz
Marker 1 Power	-24.961 dBm
Center	849.000 MHz
#Res BW	15 kHz
#VBW	43 kHz*
Span	2.000 MHz
#Sweep	1.000 s (1001 pts)



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:29:32 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-28.880 dBm

10 dB/div
Log

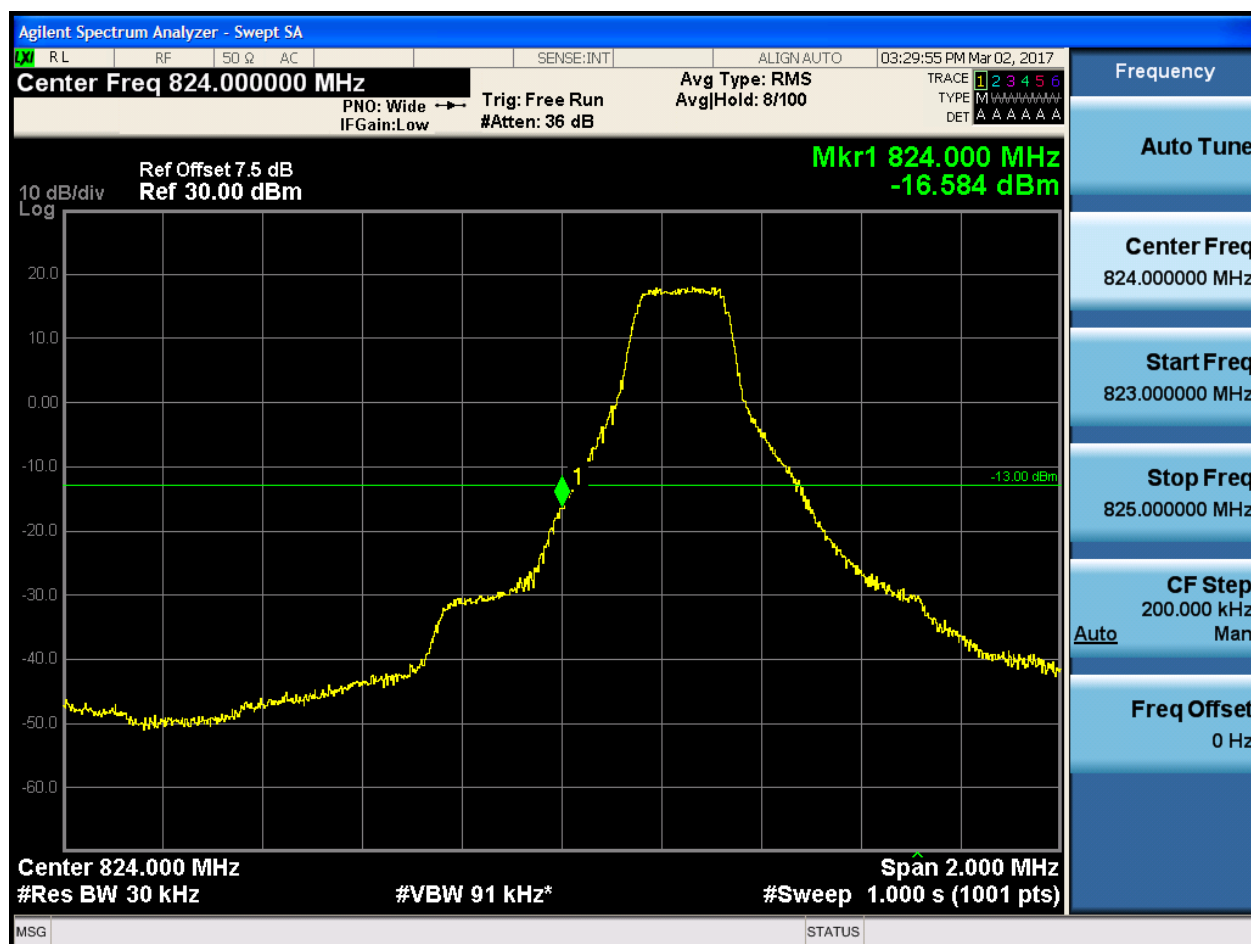
Center 849.000 MHz
#Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.2 Test Bandwidth = 3

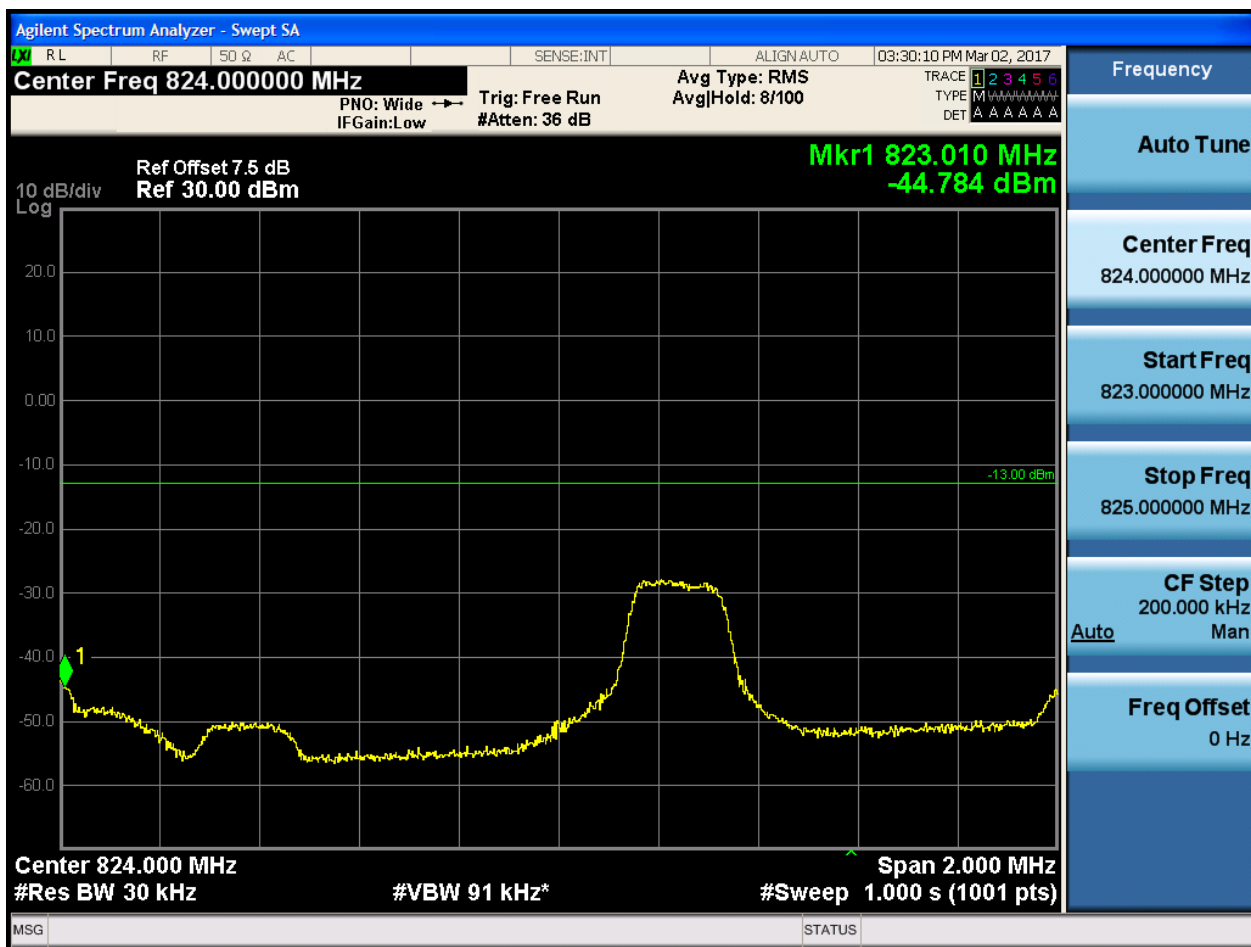
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0

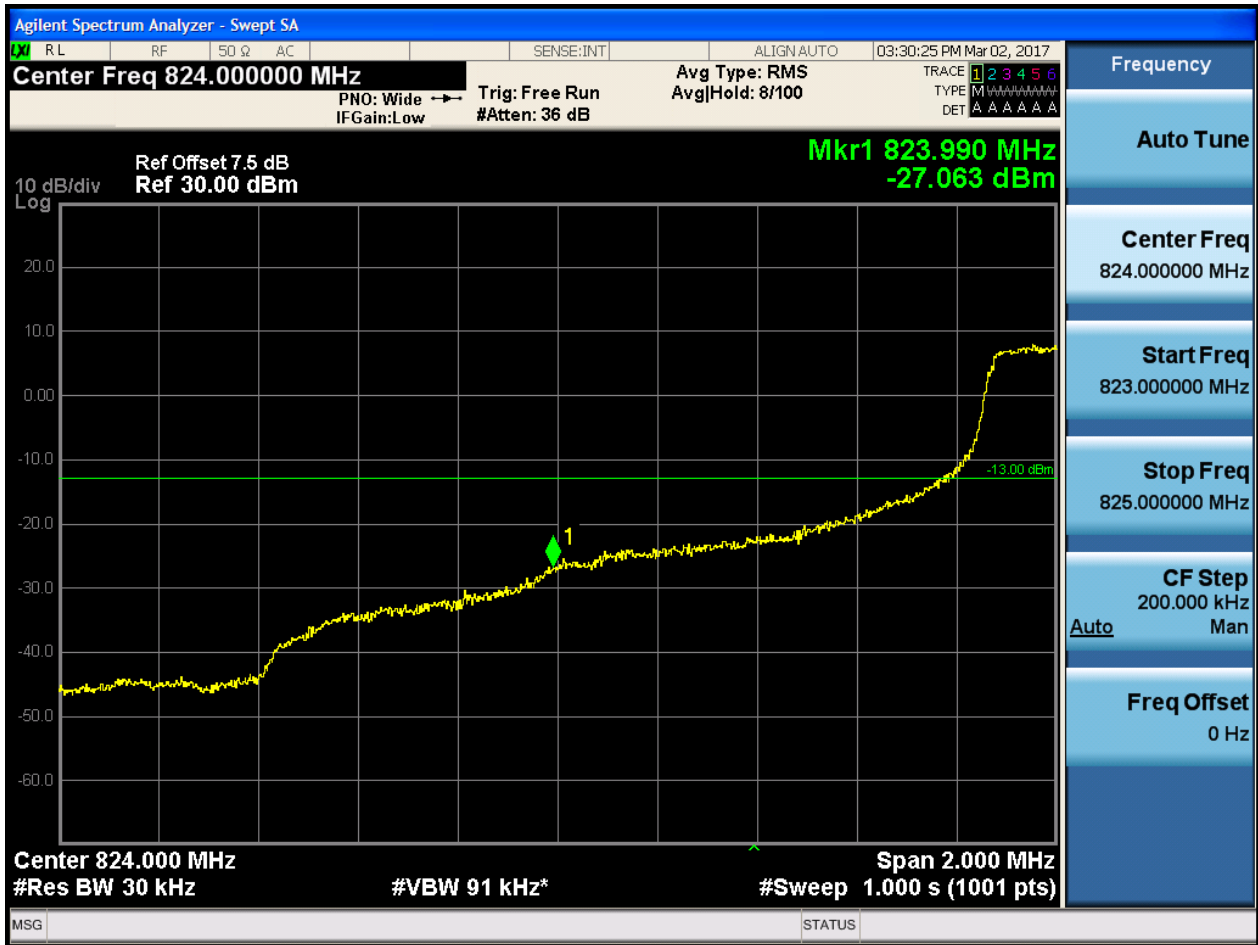




5.1.1.1.2.1.2 Test RB = RB1#14

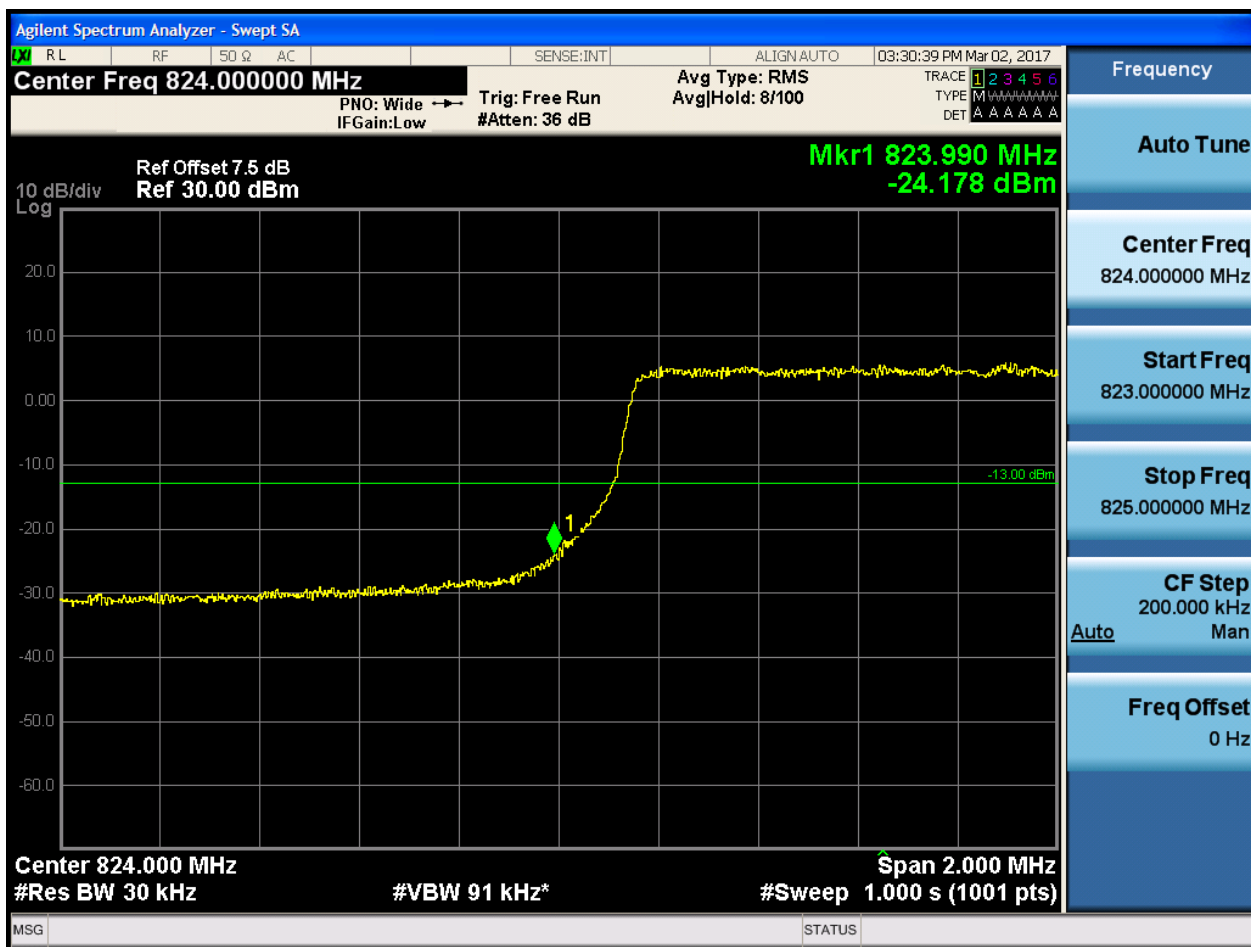


5.1.1.1.2.1.3 Test RB = RB8#4





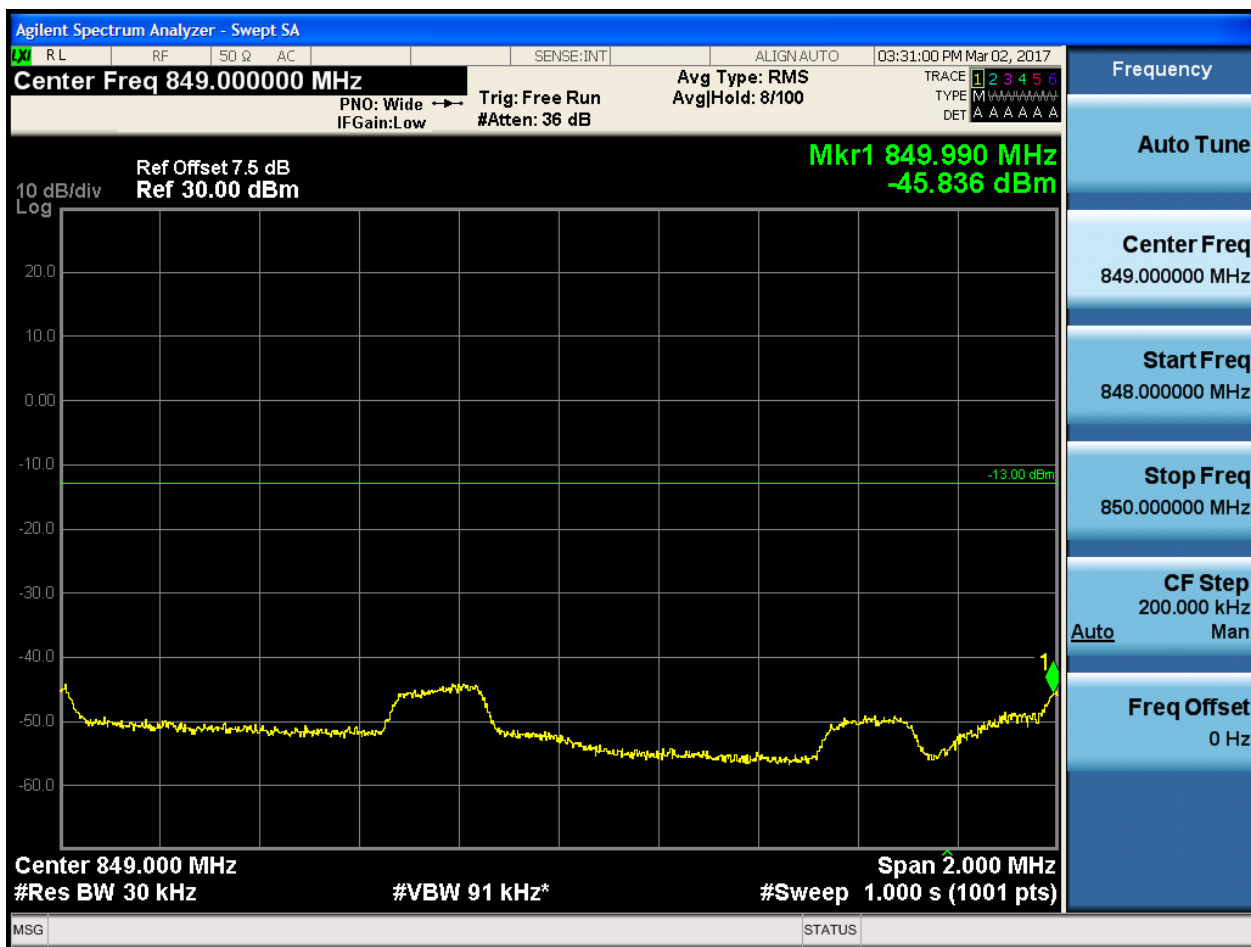
5.1.1.1.2.1.4 Test RB = RB15#0





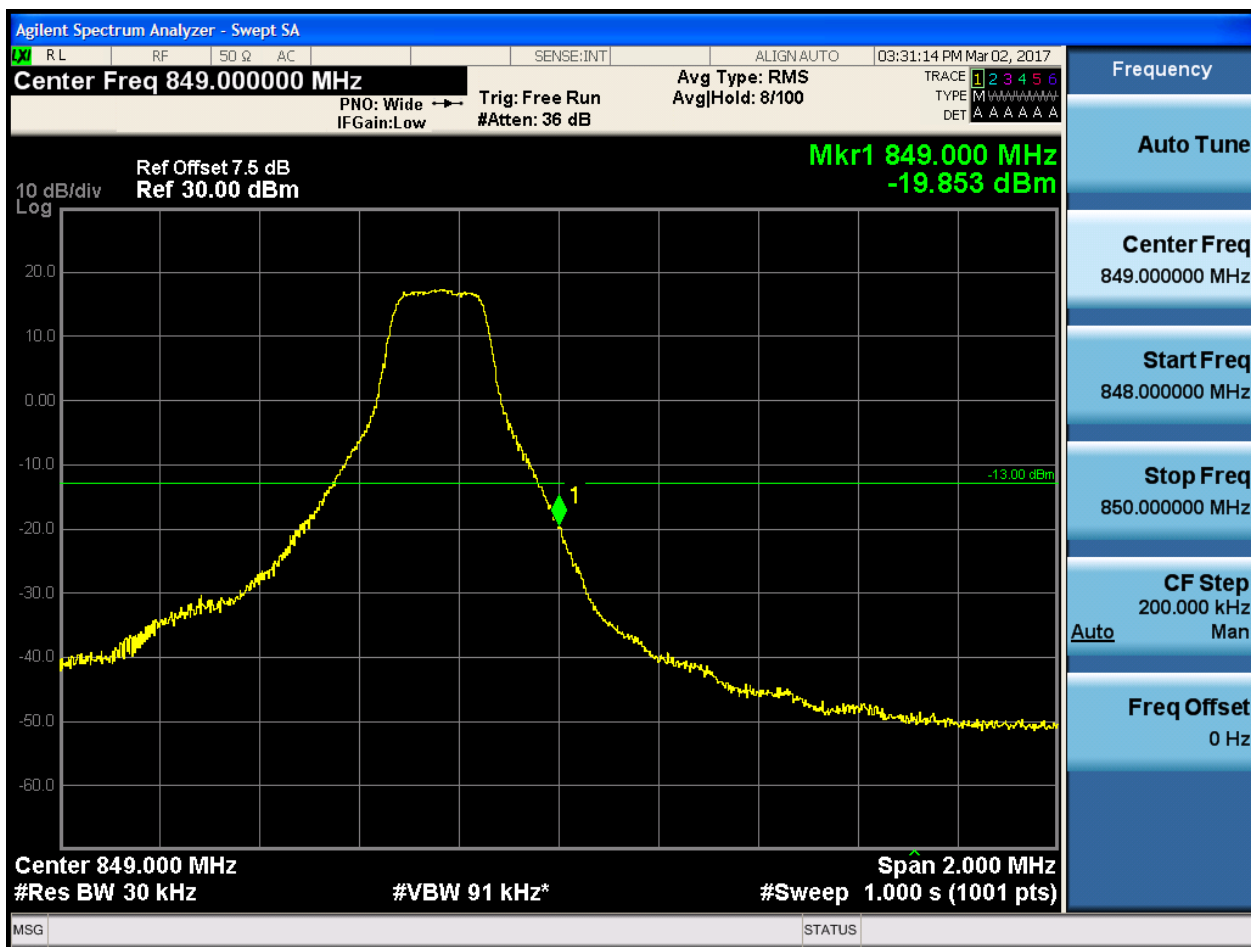
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14



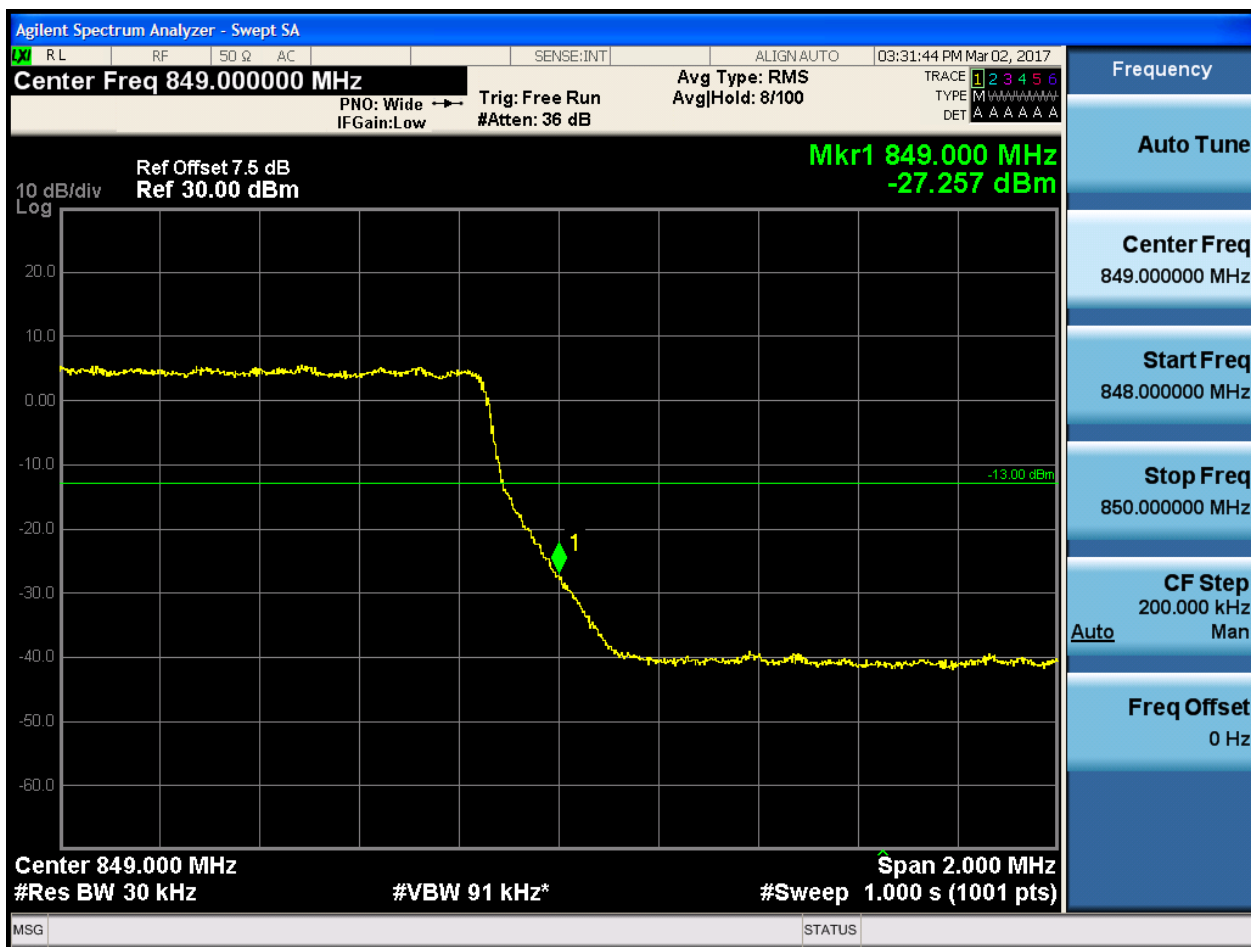


5.1.1.1.2.2.3 Test RB = RB8#4





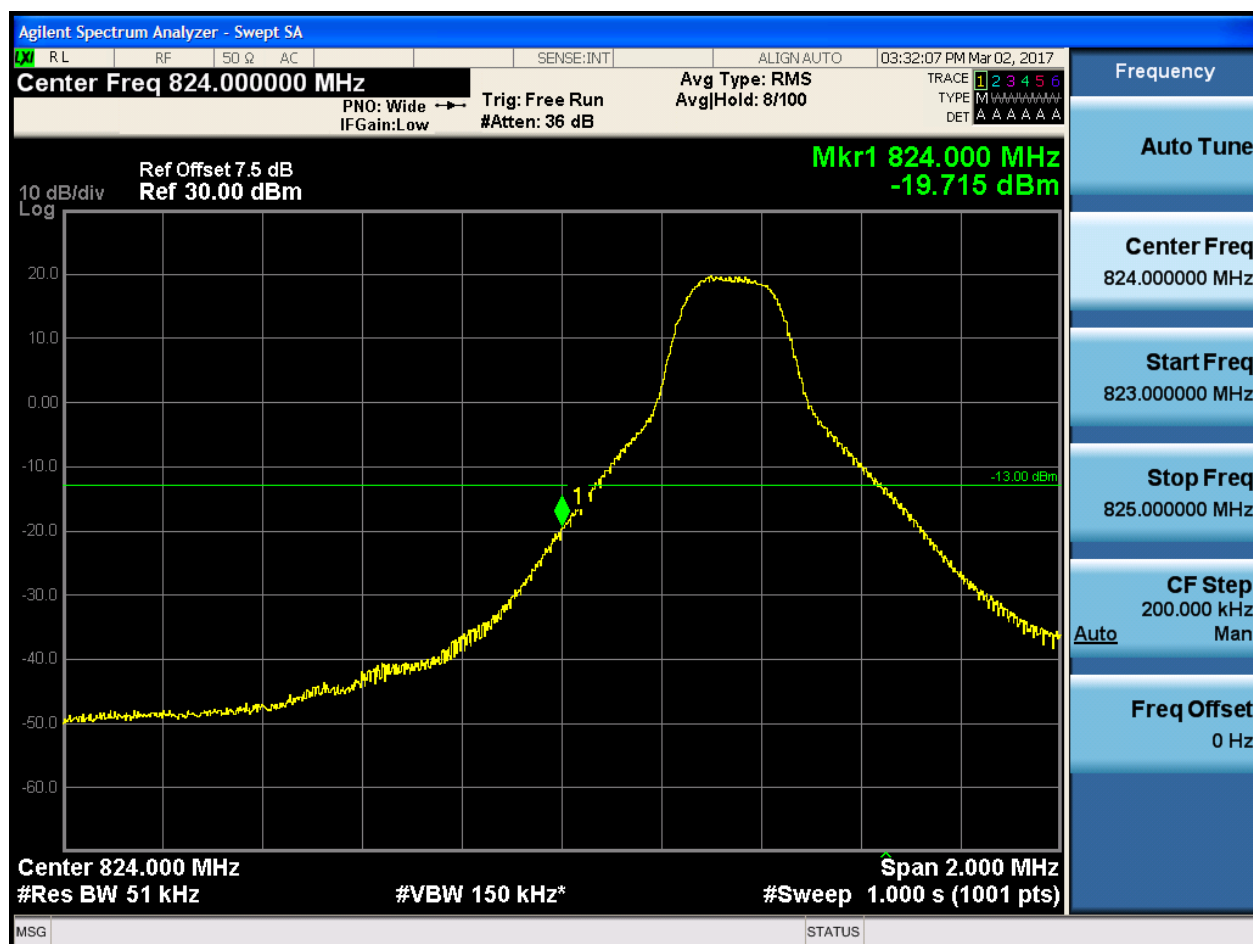
5.1.1.1.2.2.4 Test RB = RB15#0



5.1.1.1.3 Test Bandwidth = 5

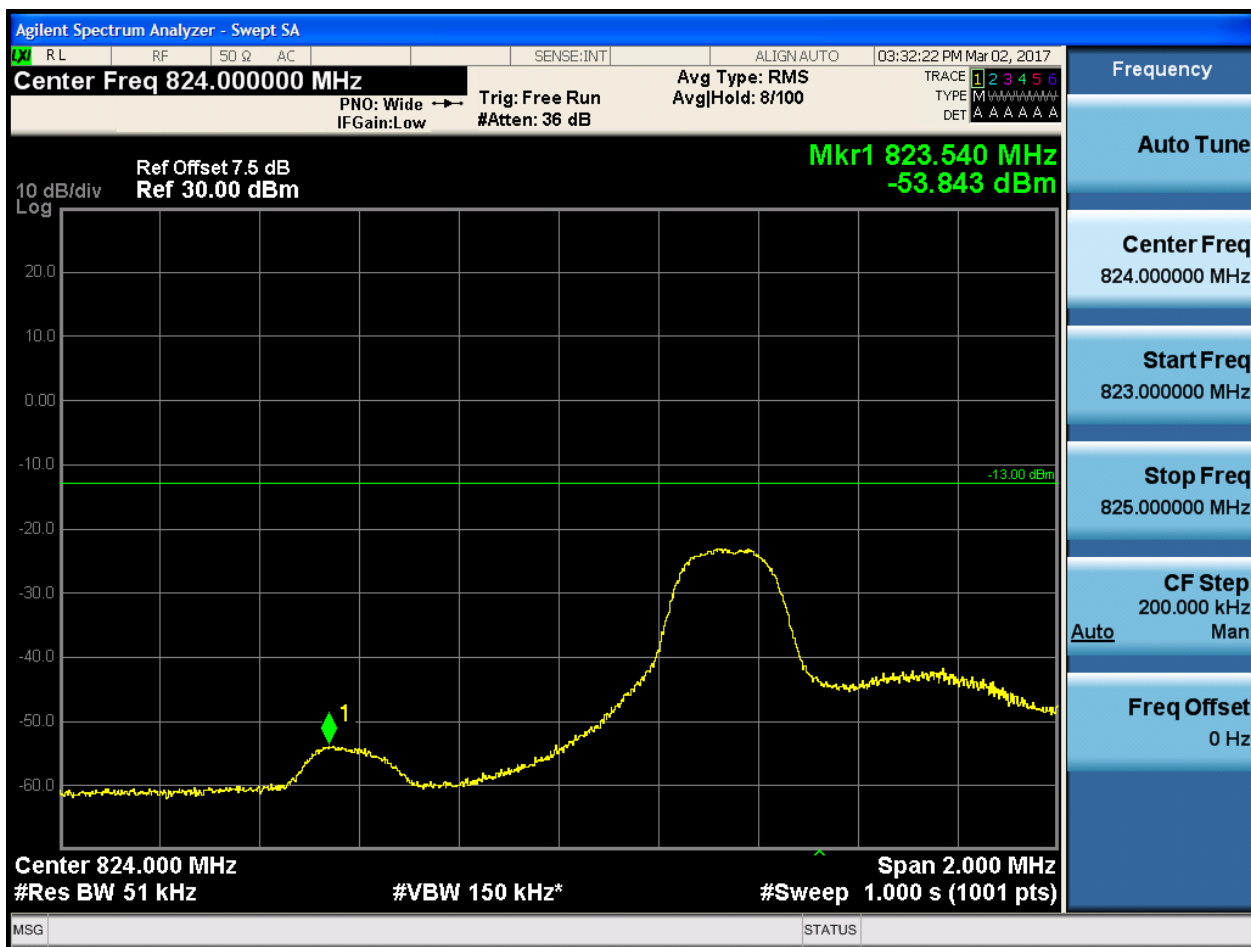
5.1.1.1.3.1 Test Channel = LCH

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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:32:37 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-27.728 dBm

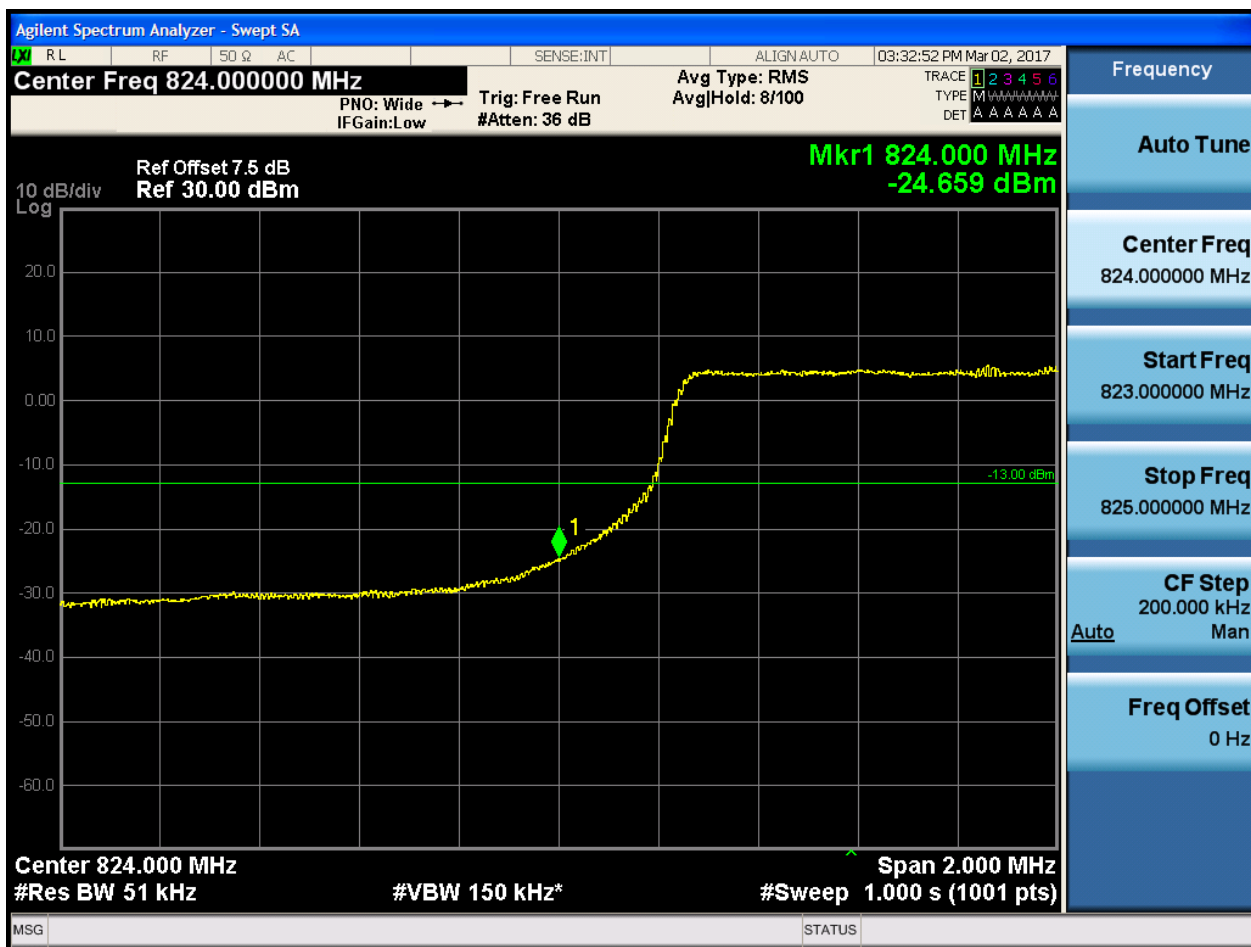
10 dB/div
Log

Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



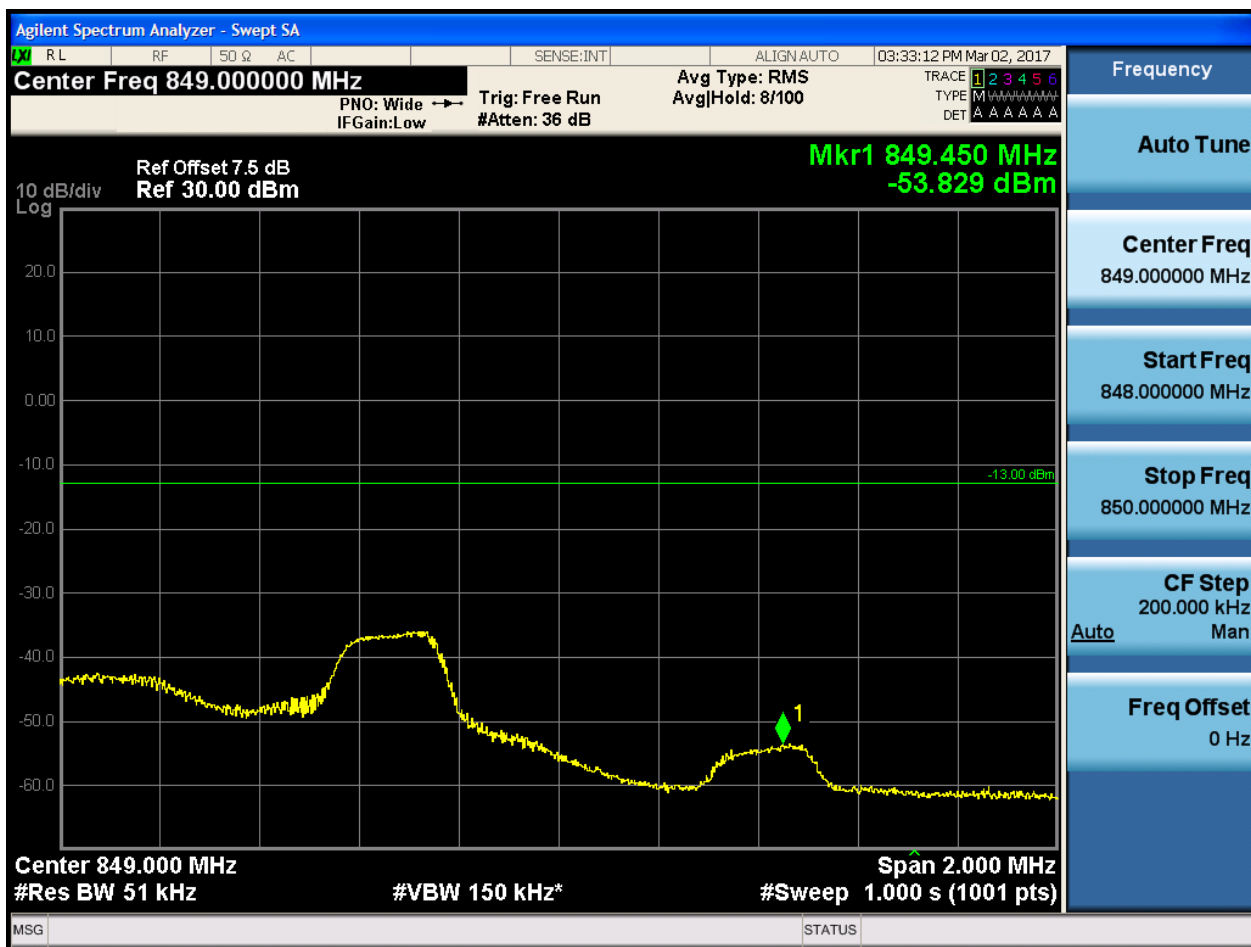
5.1.1.1.3.1.4 Test RB = RB25#0





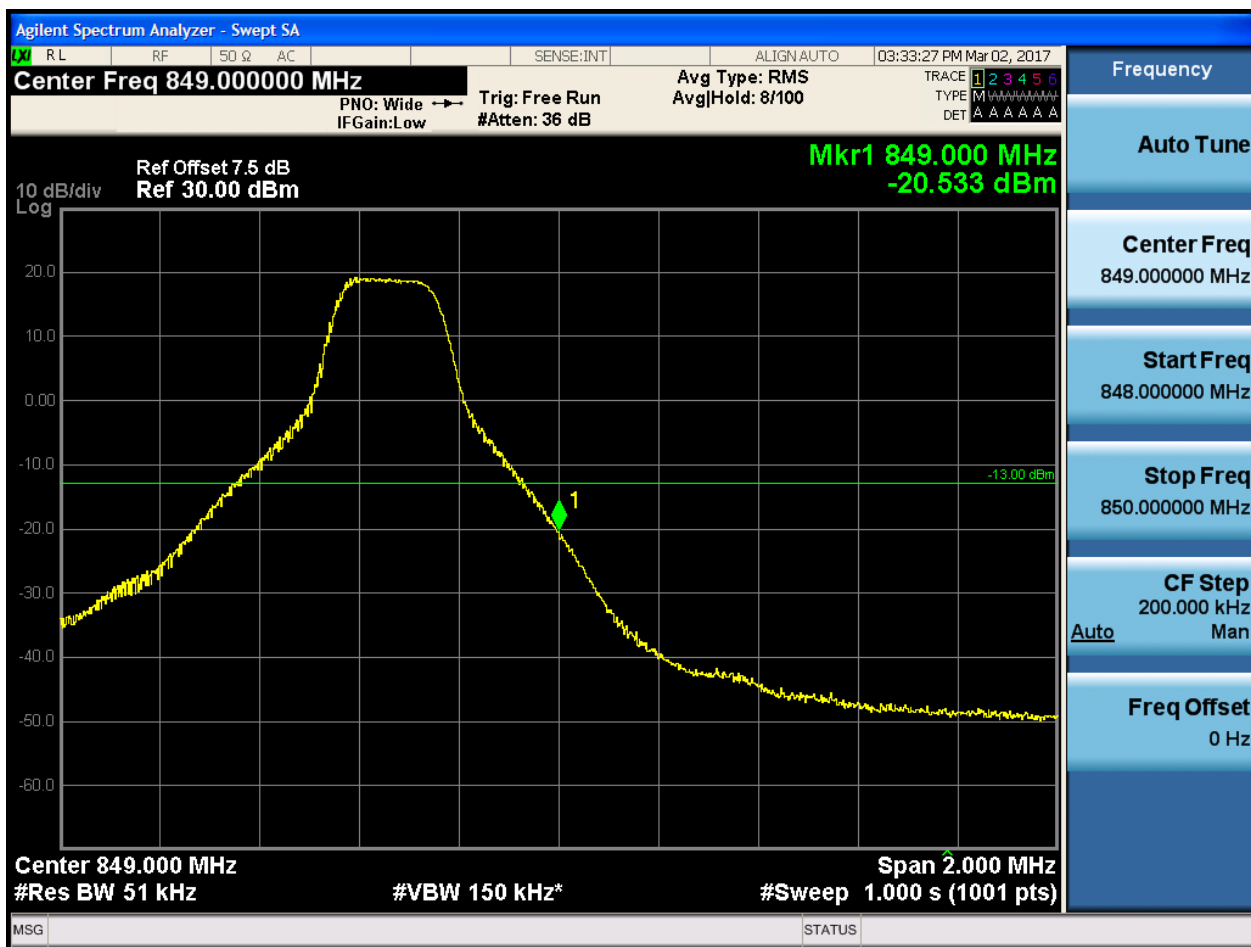
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:33:42 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-33.104 dBm

10 dB/div
Log

Center 849.000 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

Center Freq 849.000000 MHz Avg Type: RMS Trace 1 2 3 4 5 6
 PNO: Wide → Trig: Free Run AvgHold: 8/100
 IFGain: Low #Atten: 36 dB TYPE M W W W W W W W W W
 DET A A A A A A

Ref Offset 7.5 dB Mkr1 849.000 MHz
 Ref 30.00 dBm -27.866 dBm

10 dB/div Log

Center 849.000 MHz Span 2.000 MHz
 #Res BW 51 kHz #VBW 150 kHz* #Sweep 1.000 s (1001 pts)

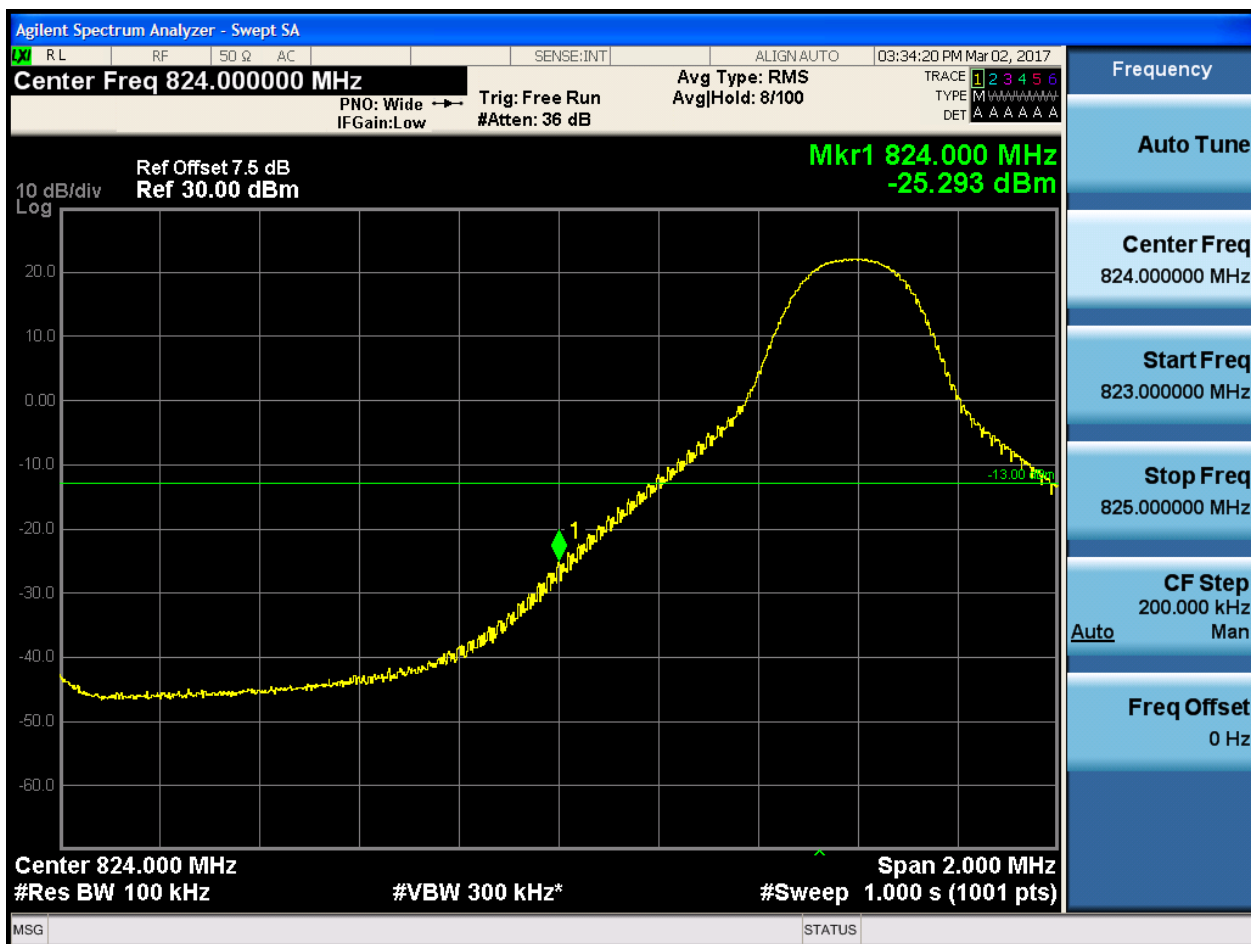
Frequency
Auto Tune
Center Freq 849.000000 MHz
Start Freq 848.000000 MHz
Stop Freq 850.000000 MHz
CF Step 200.000 kHz <u>Auto</u> Man
Freq Offset 0 Hz



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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:34:34 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-46.931 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 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 03:34:49 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-29.528 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



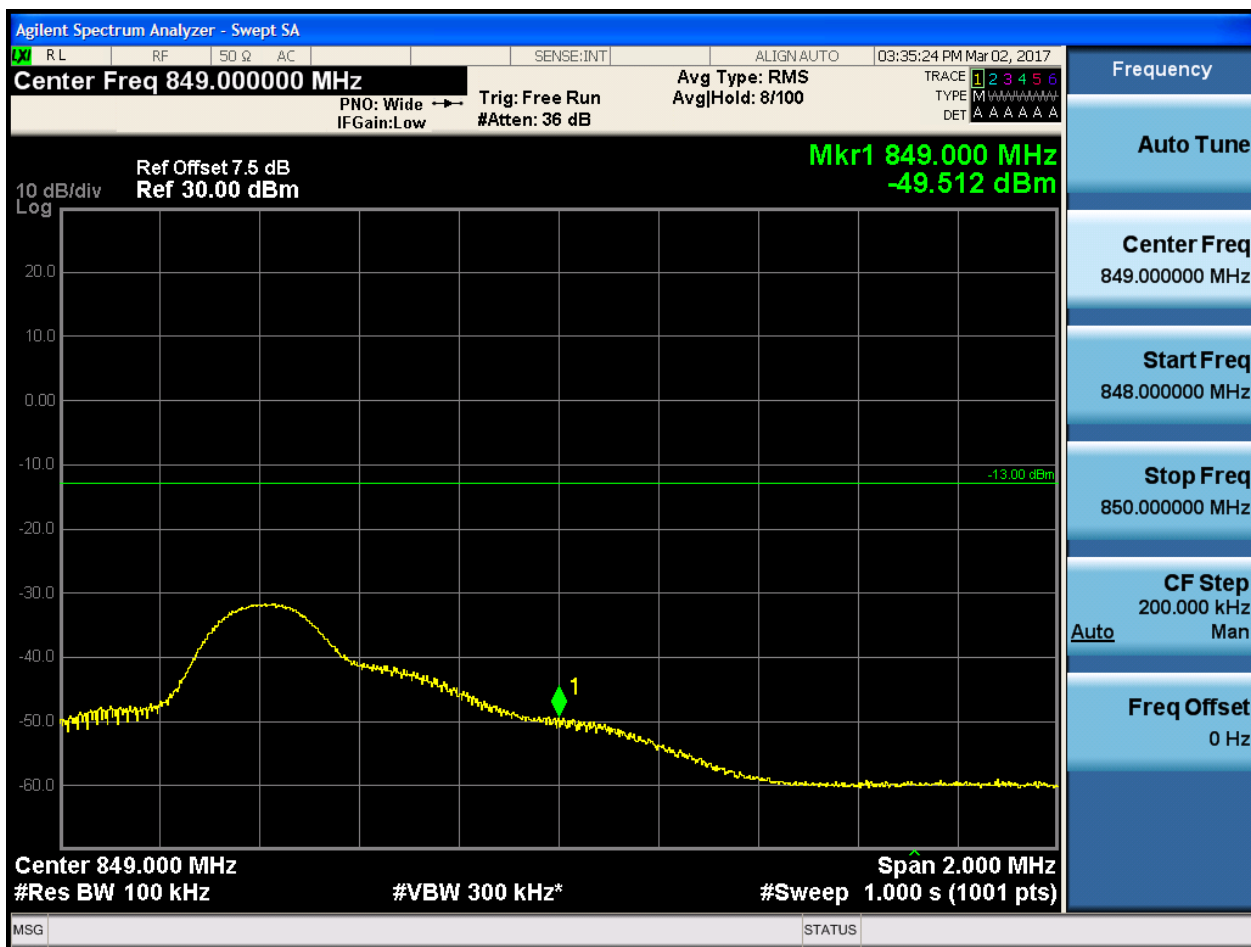
5.1.1.1.4.1.4 Test RB = RB50#0



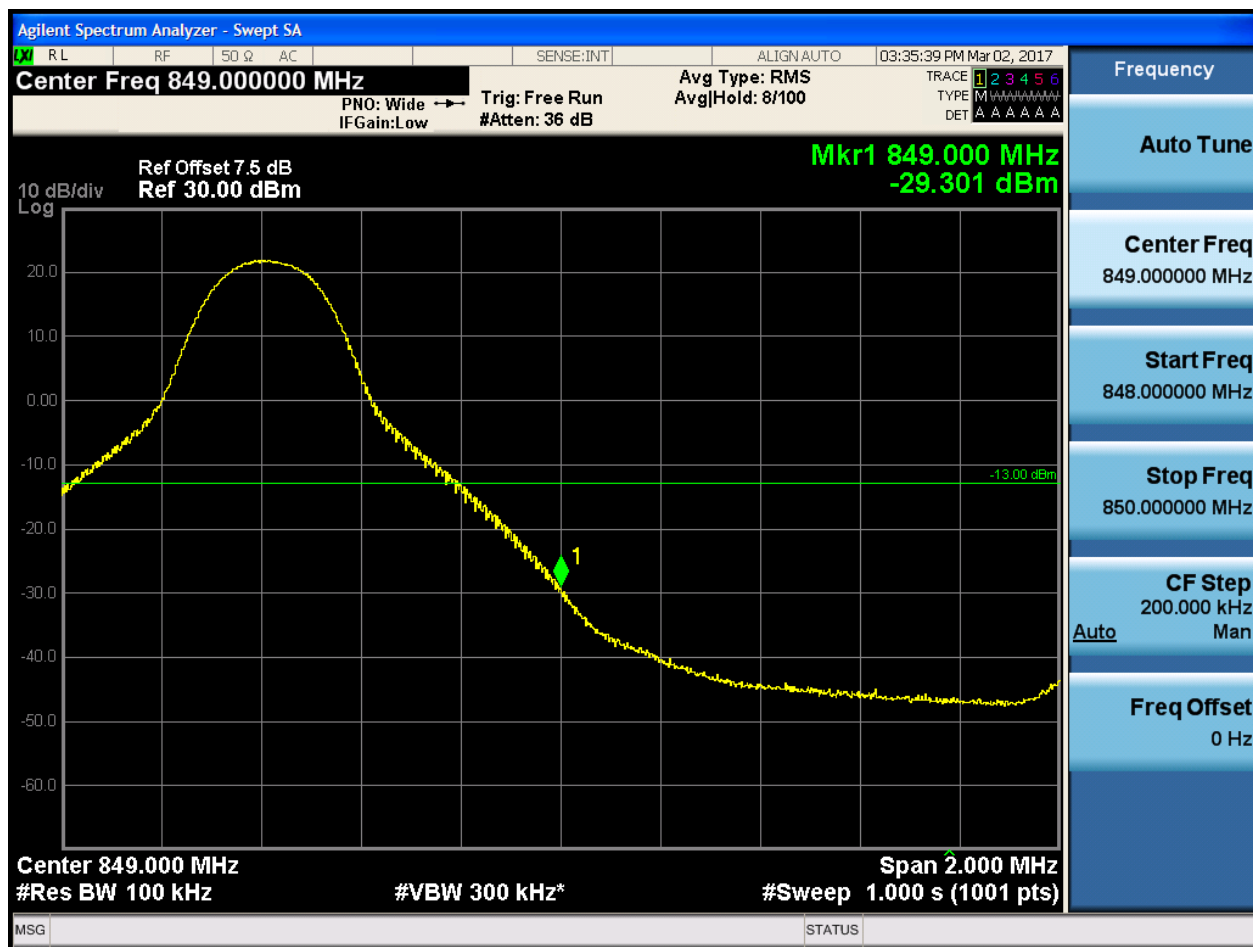


5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



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 03:35:54 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-31.654 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 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 03:36:09 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-29.091 dBm

10 dB/div
Log

Center 849.000 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
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

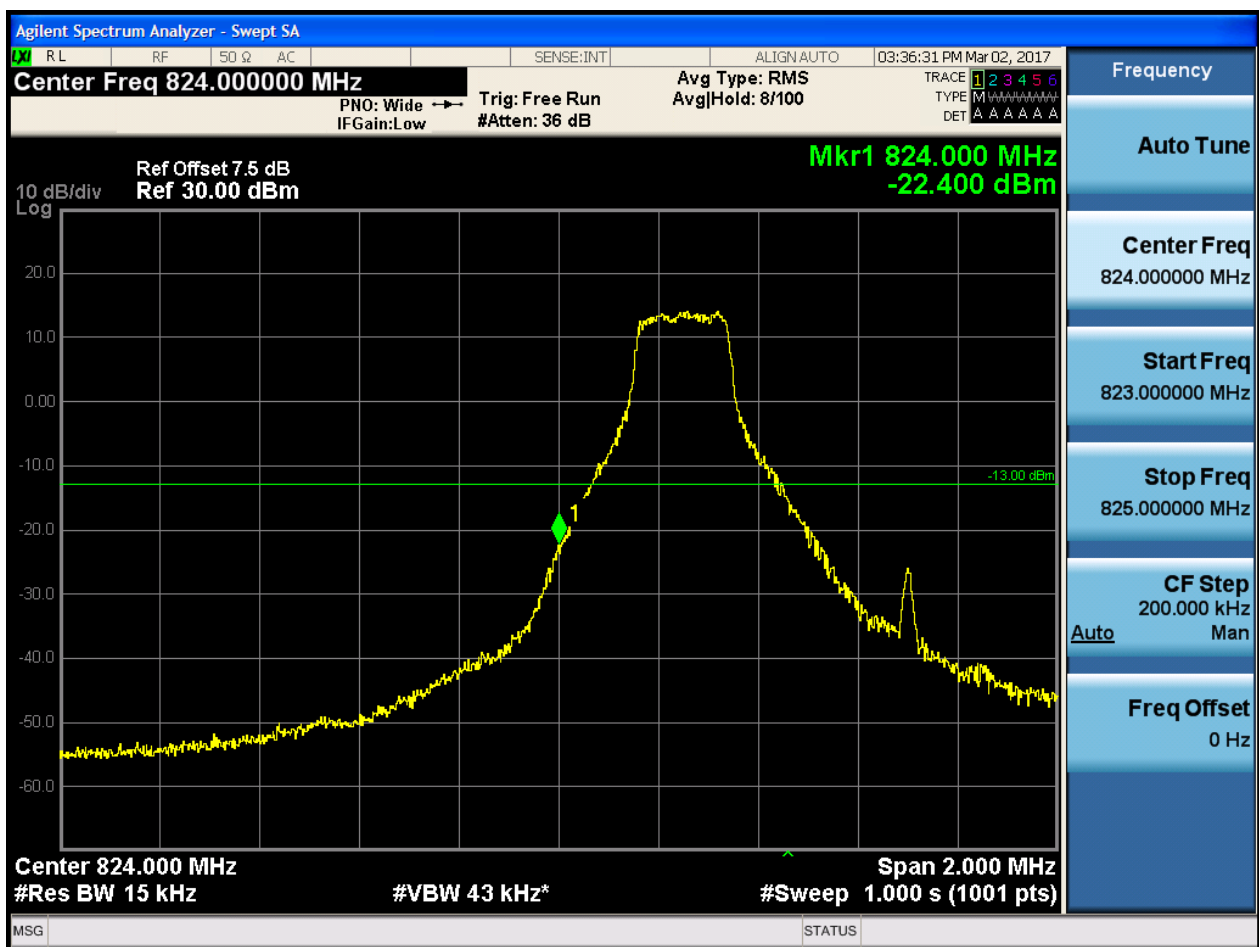


5.1.1.2 Test Mode = LTE/TM2

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

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:37:01 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-35.252 dBm

10 dB/div
Log

Center 824.000 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
824.000000 MHz

Start Freq
823.000000 MHz

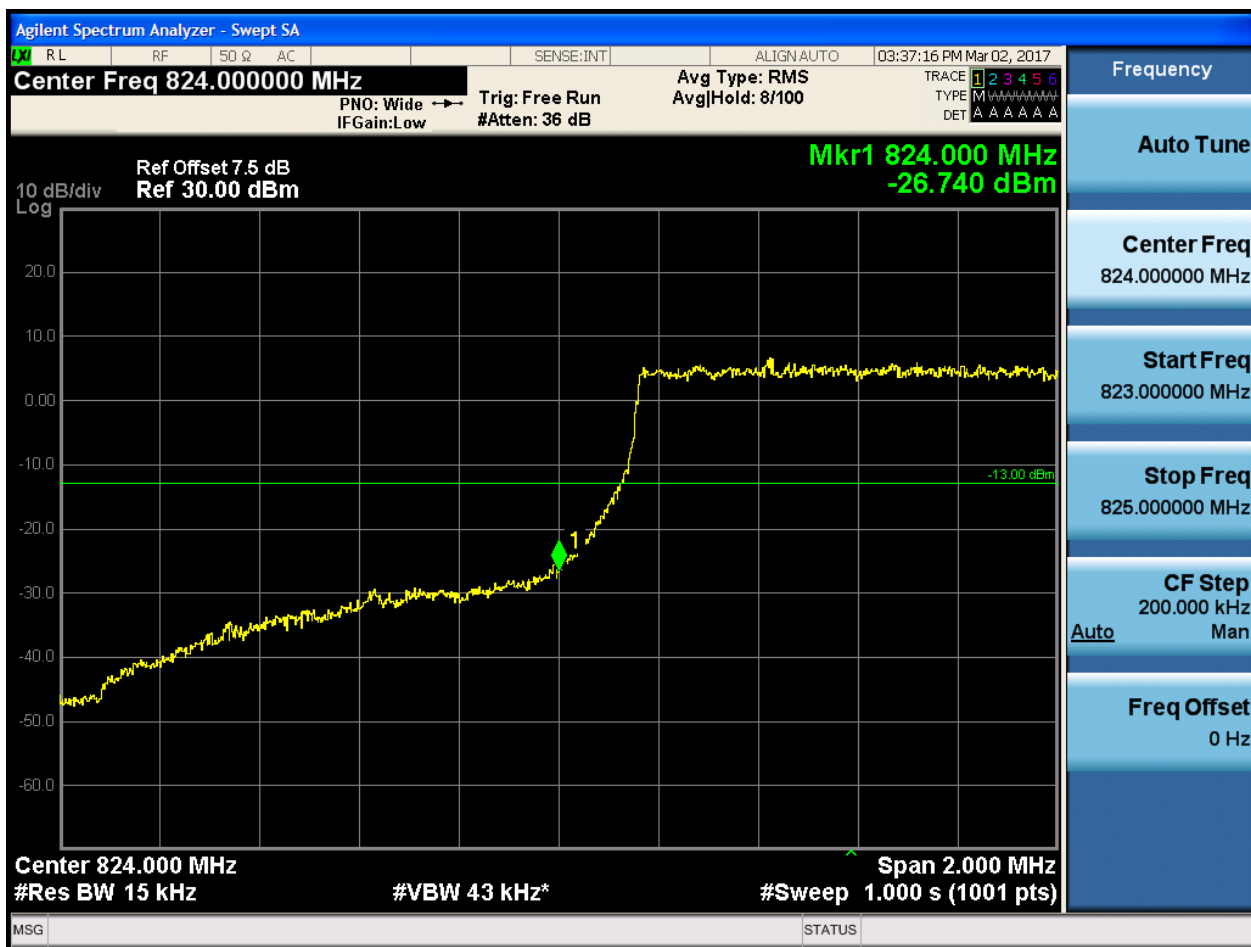
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



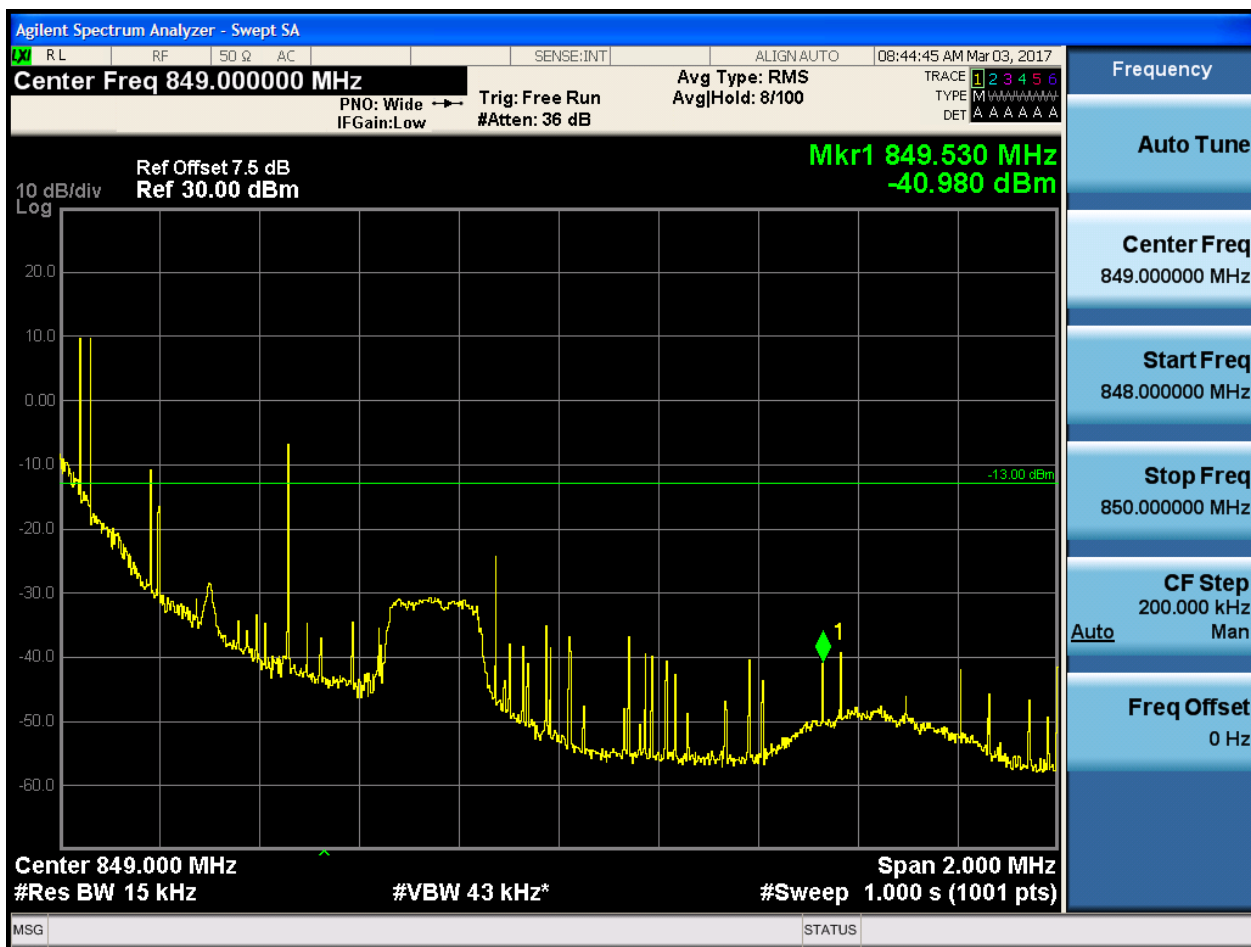
5.1.1.2.1.1.4 Test RB = RB6#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



[illegible]



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:38:06 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-27.033 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.1.2.4 Test RB = RB6#0

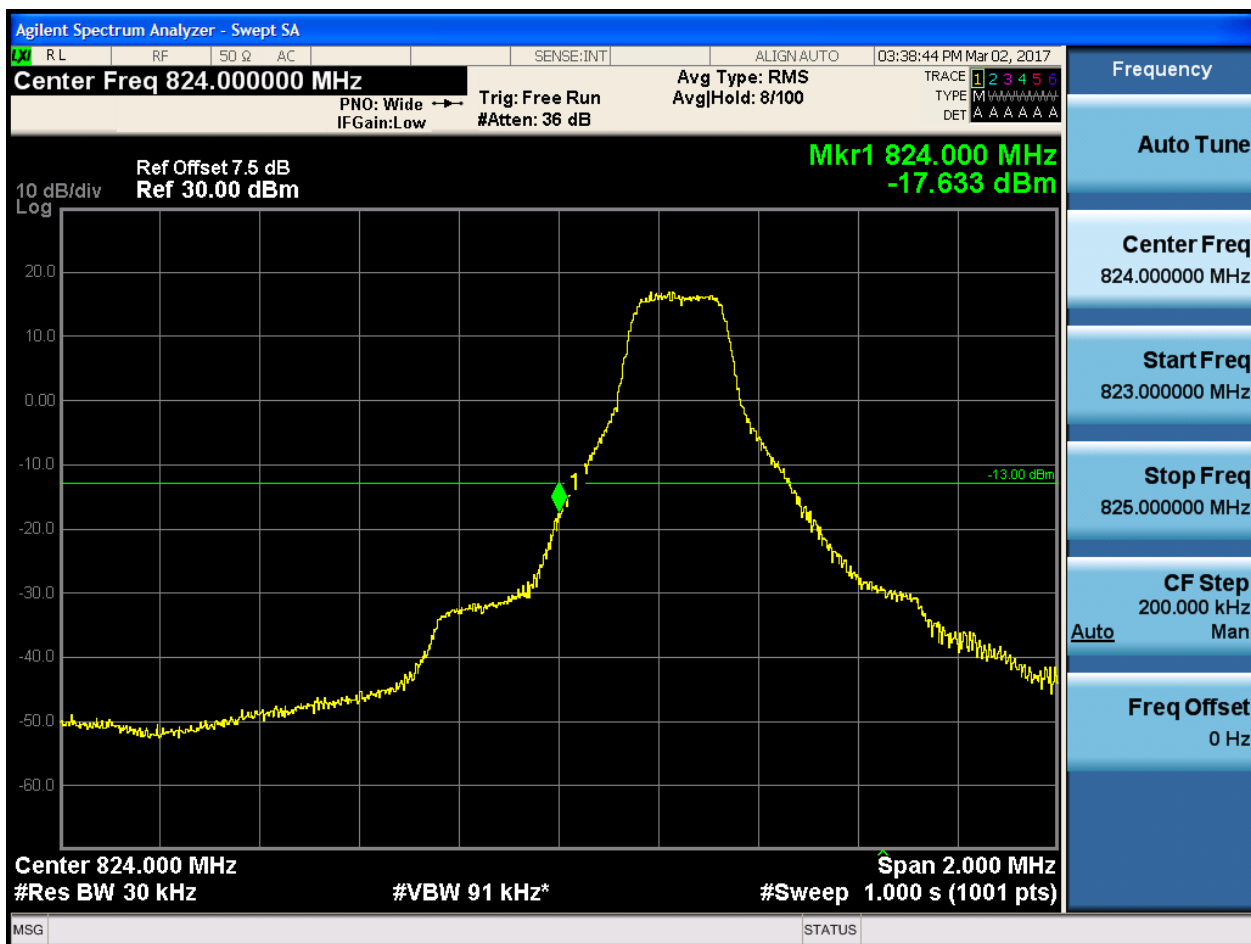




5.1.1.2.2 Test Bandwidth = 3

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

Center Freq 824.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Man

Freq Offset
0 Hz

MSG STATUS

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display area shows a spectrum plot with a yellow trace. A prominent peak is labeled 'Mkr1 823.010 MHz -44.702 dBm'. The plot has a grid with a vertical scale from -60.0 to 20.0 dBm and a horizontal scale from 823.000000 to 825.000000 MHz. The center frequency is set to 824.000000 MHz. The span is 2.000 MHz, and the resolution bandwidth (Res BW) is 30 kHz. The sweep time is 1.000 s (1001 pts). The display includes various settings and status information at the top and bottom, such as 'Center Freq 824.000000 MHz', 'Ref Offset 7.5 dB', 'Ref 30.00 dBm', 'Auto Tune', 'Center Freq 824.000000 MHz', 'Start Freq 823.000000 MHz', 'Stop Freq 825.000000 MHz', 'CF Step 200.000 kHz', 'Freq Offset 0 Hz', 'MSG', and 'STATUS'.



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:39:14 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 823.990 MHz
-29.364 dBm

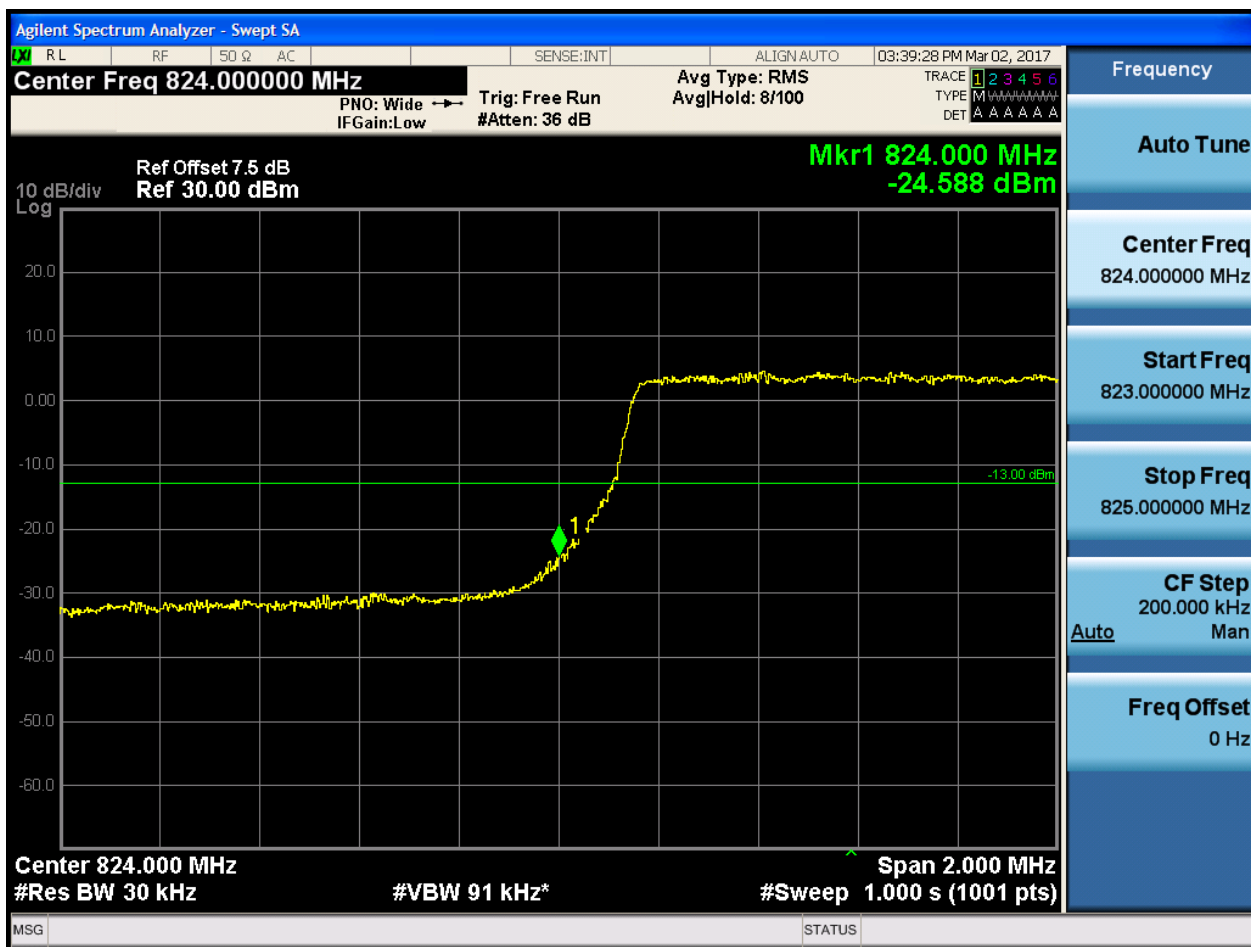
Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq
824.000000 MHz
Start Freq
823.000000 MHz
Stop Freq
825.000000 MHz
CF Step
200.000 kHz
Auto Man
Freq Offset
0 Hz



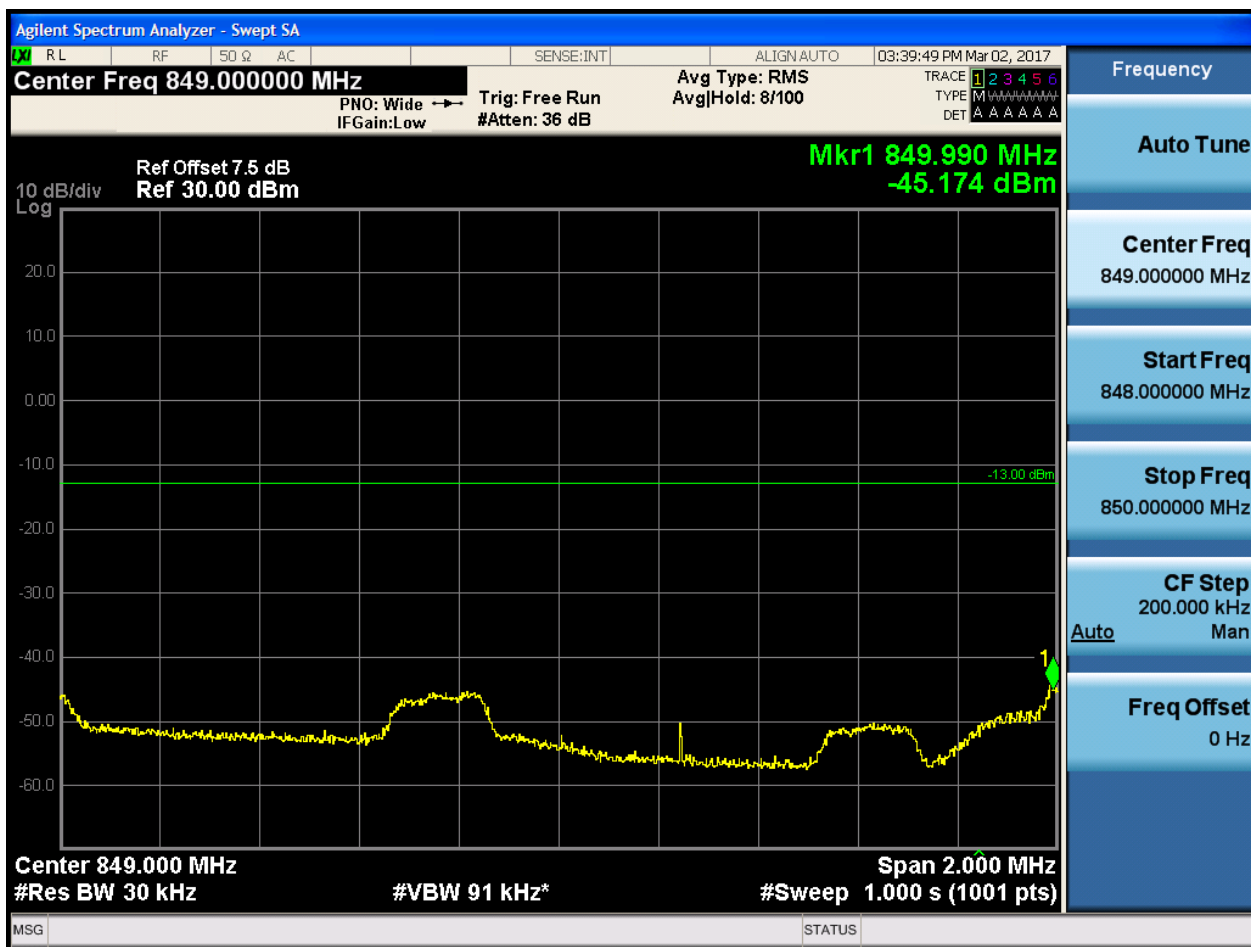
5.1.1.2.2.1.4 Test RB = RB15#0





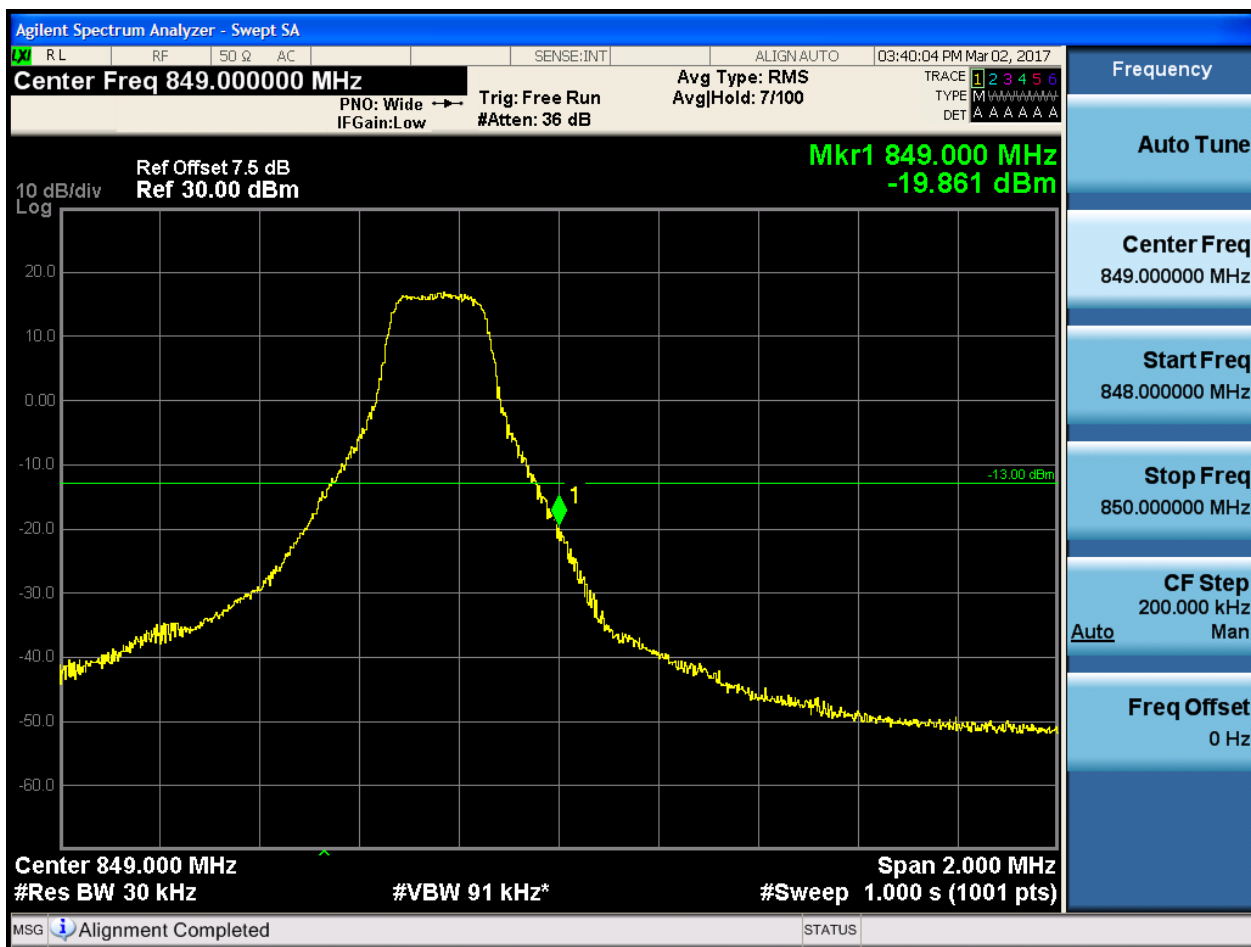
5.1.1.2.2.2 Test Channel = HCH

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 03:40:18 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.010 MHz
-34.630 dBm

-13.00 dBm

1

Center 849.000 MHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 91 kHz*

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 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 03:40:33 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-27.784 dBm

10 dB/div
Log

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

848.000000 MHz
849.000000 MHz
850.000000 MHz

-13.00 dBm

1

Center 849.000 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
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

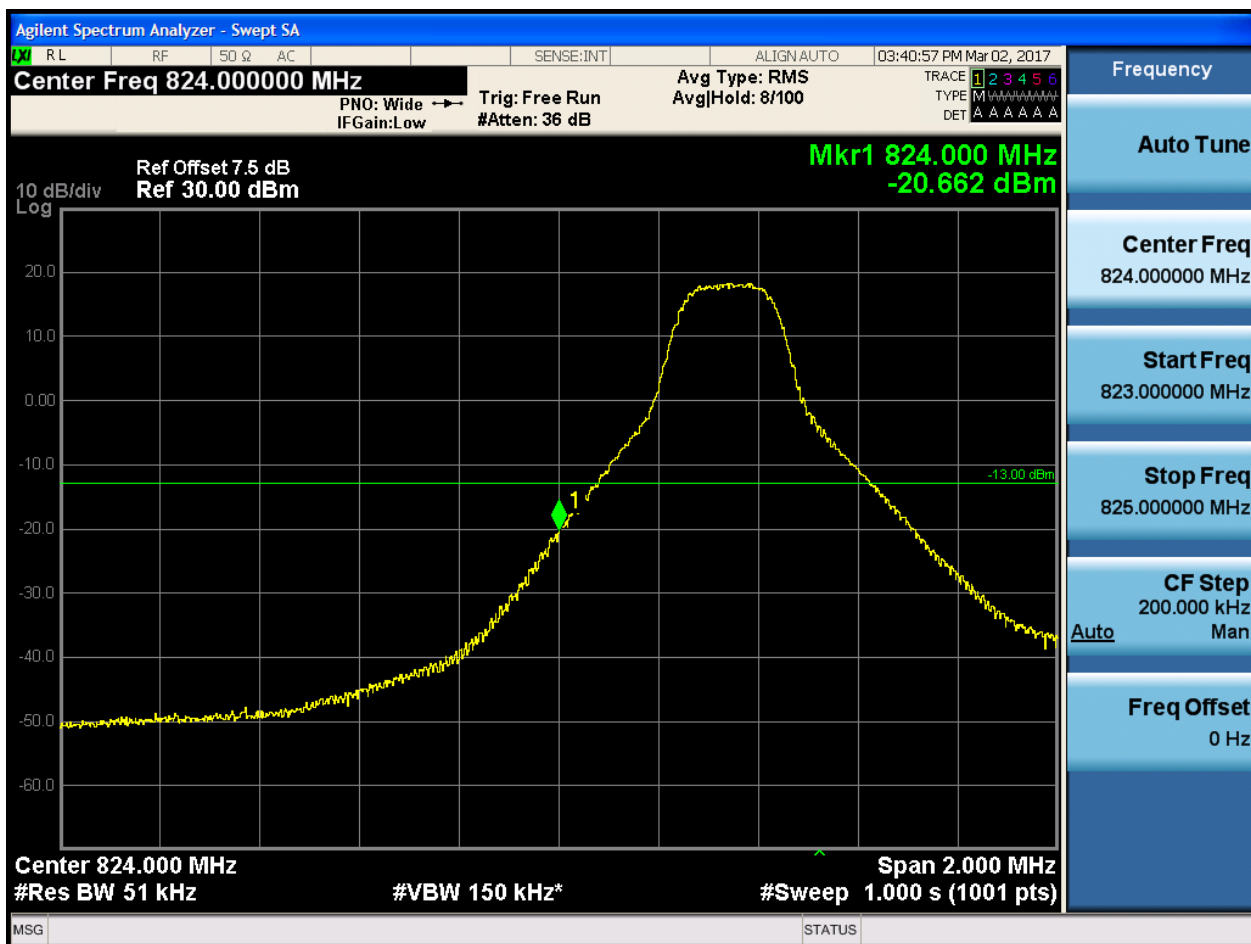
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

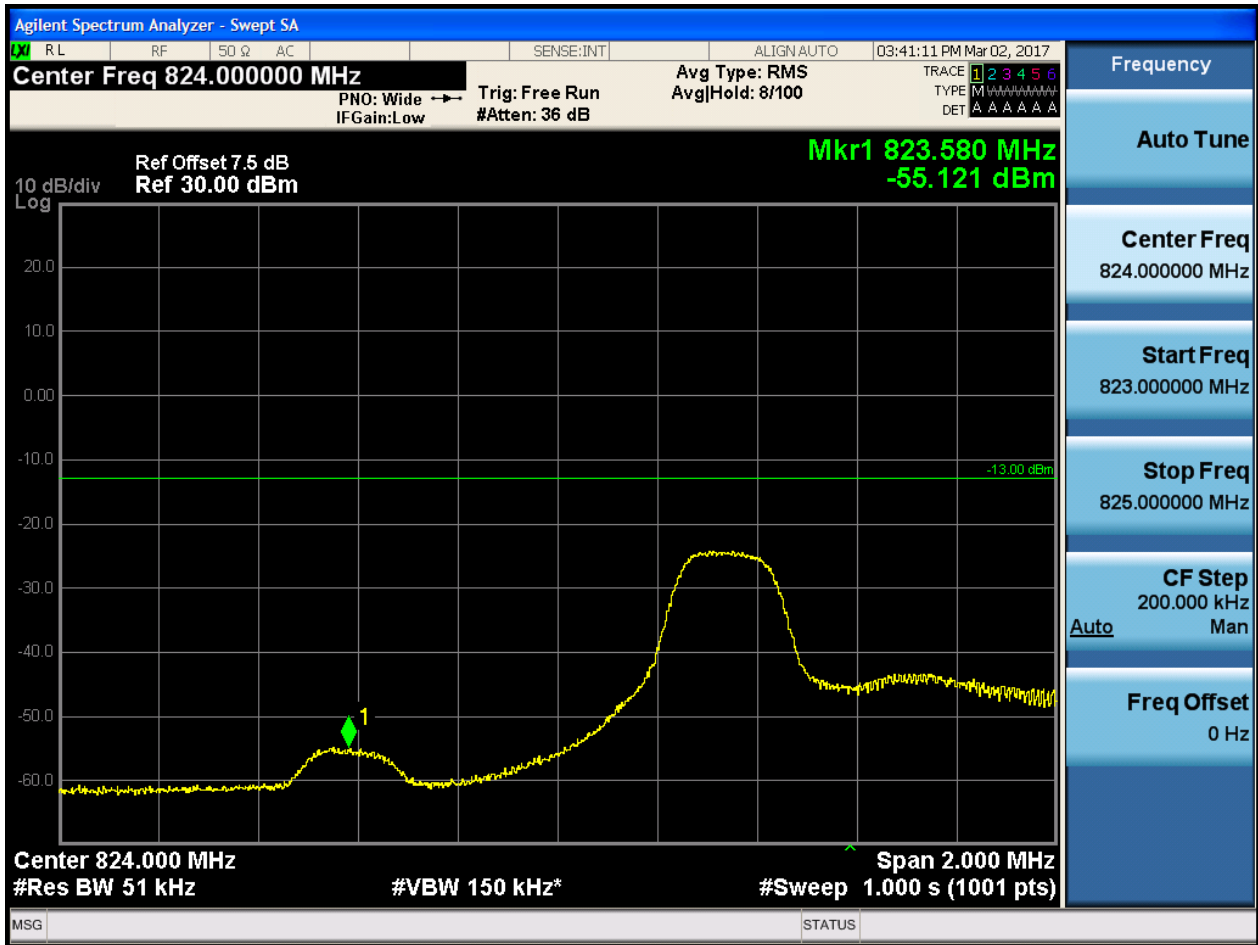
5.1.1.2.3 Test Bandwidth = 5

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 03:41:26 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-30.039 dBm

10 dB/div
Log

Center 824.000 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 03:41:41 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-26.885 dBm

10 dB/div
Log

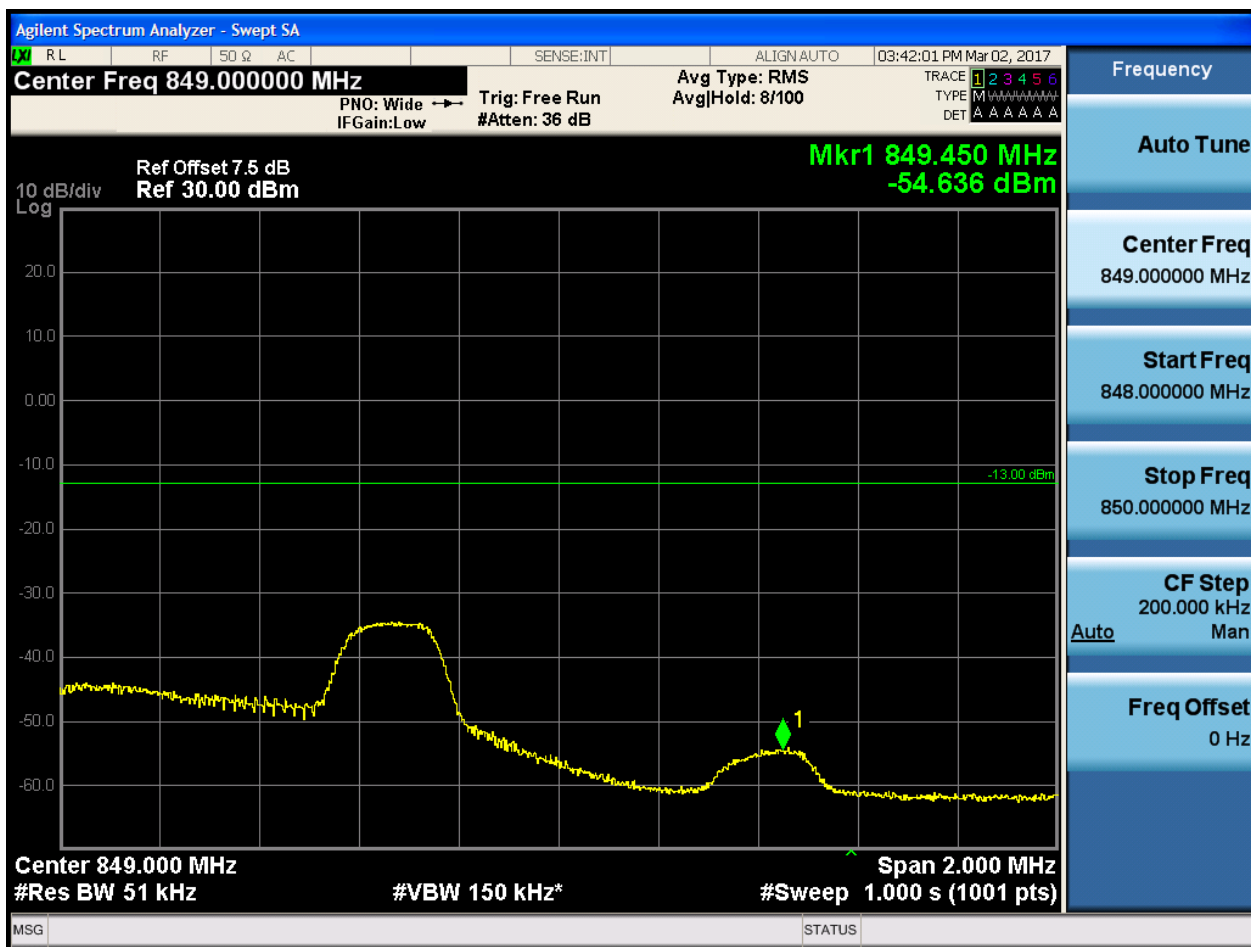
Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

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 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

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

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg/Hold: 8/100

Mkr1 849.000 MHz
-21.269 dBm

-13.00 dBm

1

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 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 03:42:31 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-35.376 dBm

10 dB/div
Log

Center 849.000 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

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Center 849.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Mkr1 849.000 MHz
-28.765 dBm

-13.00 dBm

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

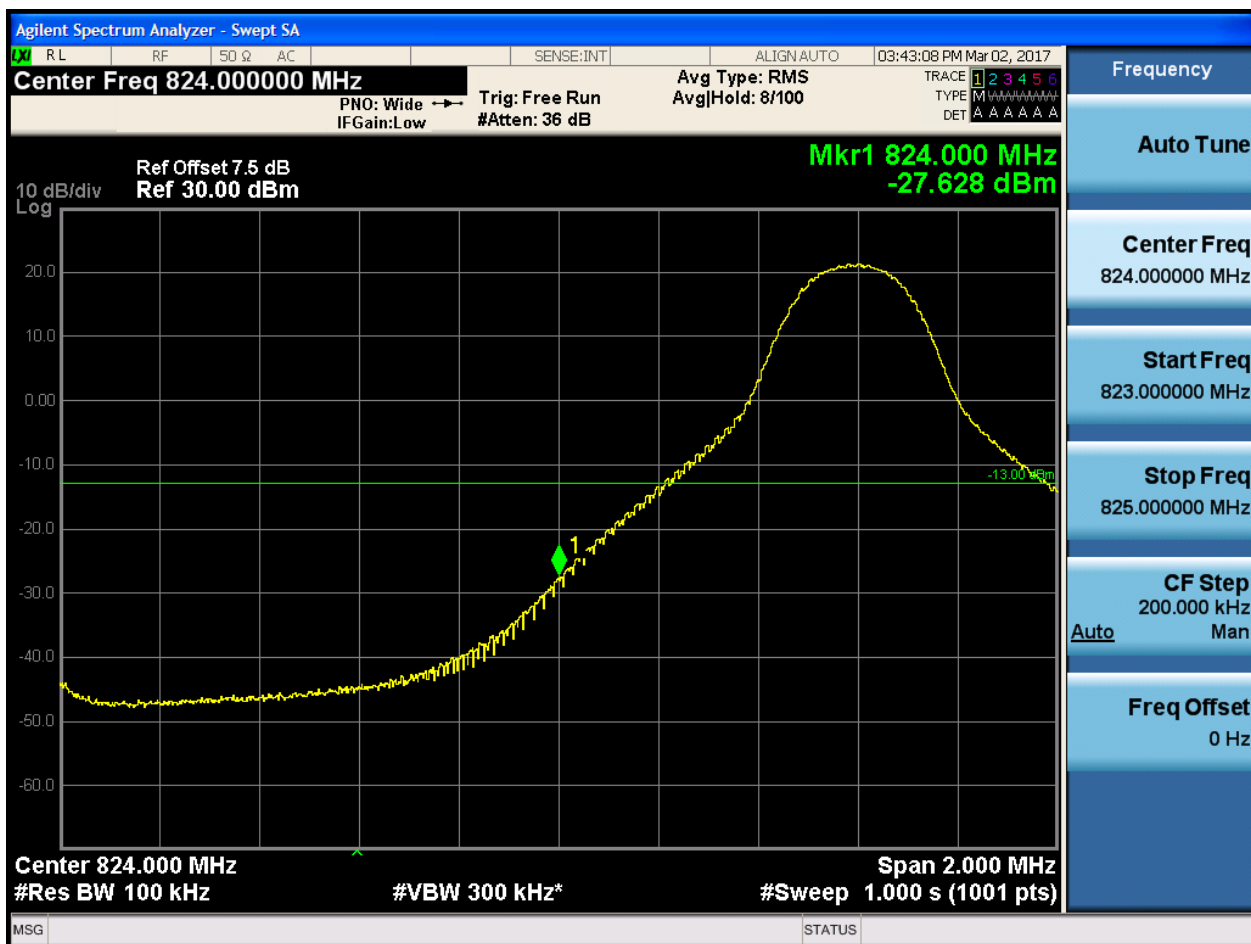
Freq Offset
0 Hz

MSG STATUS

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:43:23 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-46.784 dBm

10 dB/div
Log

Center 824.000 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
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 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 03:43:38 PM Mar 02, 2017

Center Freq 824.000000 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 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 823.990 MHz
-31.851 dBm

-13.00 dBm

1

Center 824.000 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
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

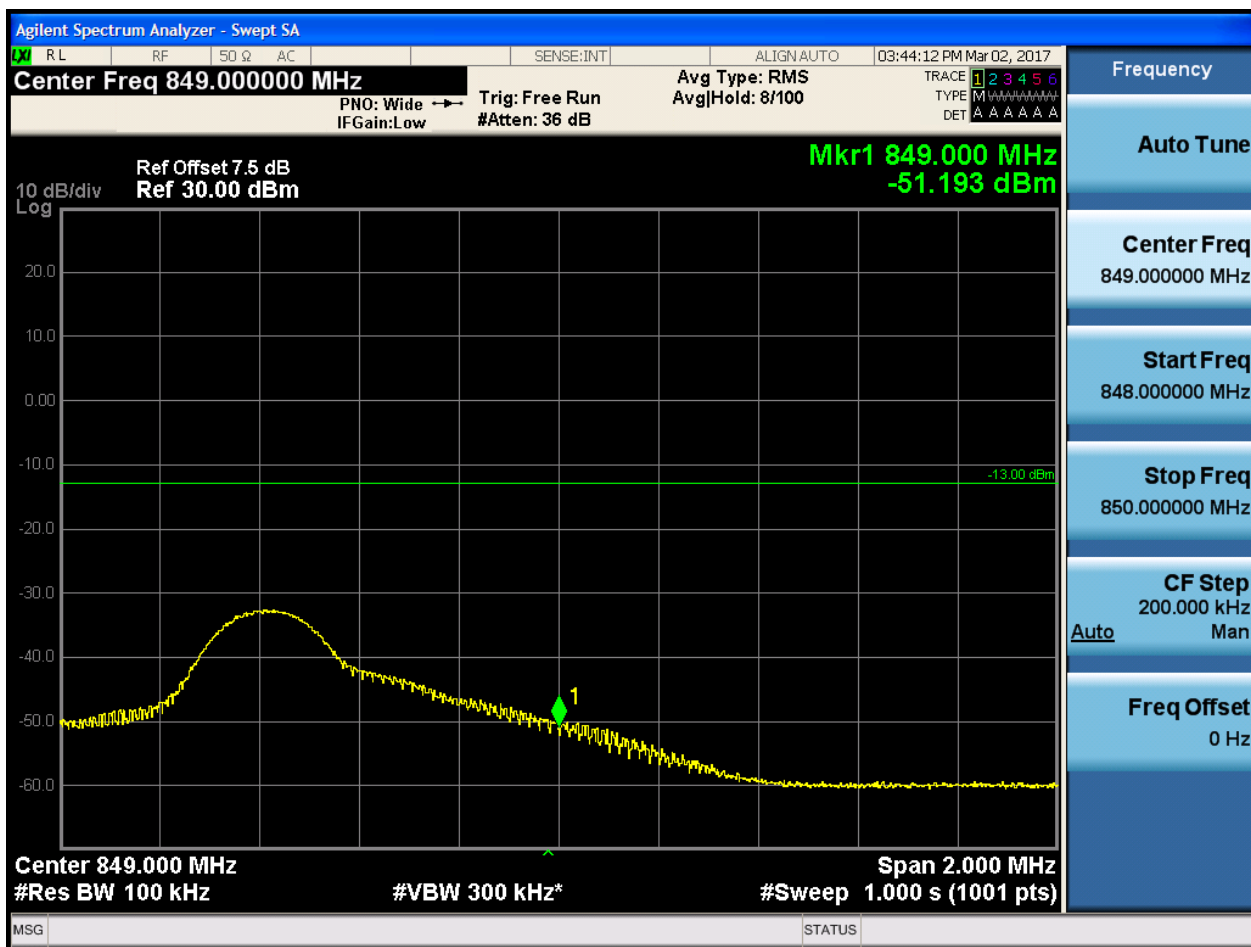


5.1.1.2.4.1.4 Test RB = RB50#0



5.1.1.2.4.2 Test Channel = HCH

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 03:44:41 PM Mar 02, 2017

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide Trg: Free Run Avg|Hold: 8/100
IFGain:Low #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 A

Ref Offset 7.5 dB Mkr1 849.010 MHz
Ref 30.00 dBm -33.828 dBm

10 dB/div Log

Center 849.000 MHz Span 2.000 MHz
#Res BW 100 kHz #VBW 300 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:44:56 PM Mar 02, 2017

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-31.205 dBm

10 dB/div
Log

Center 849.000 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
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

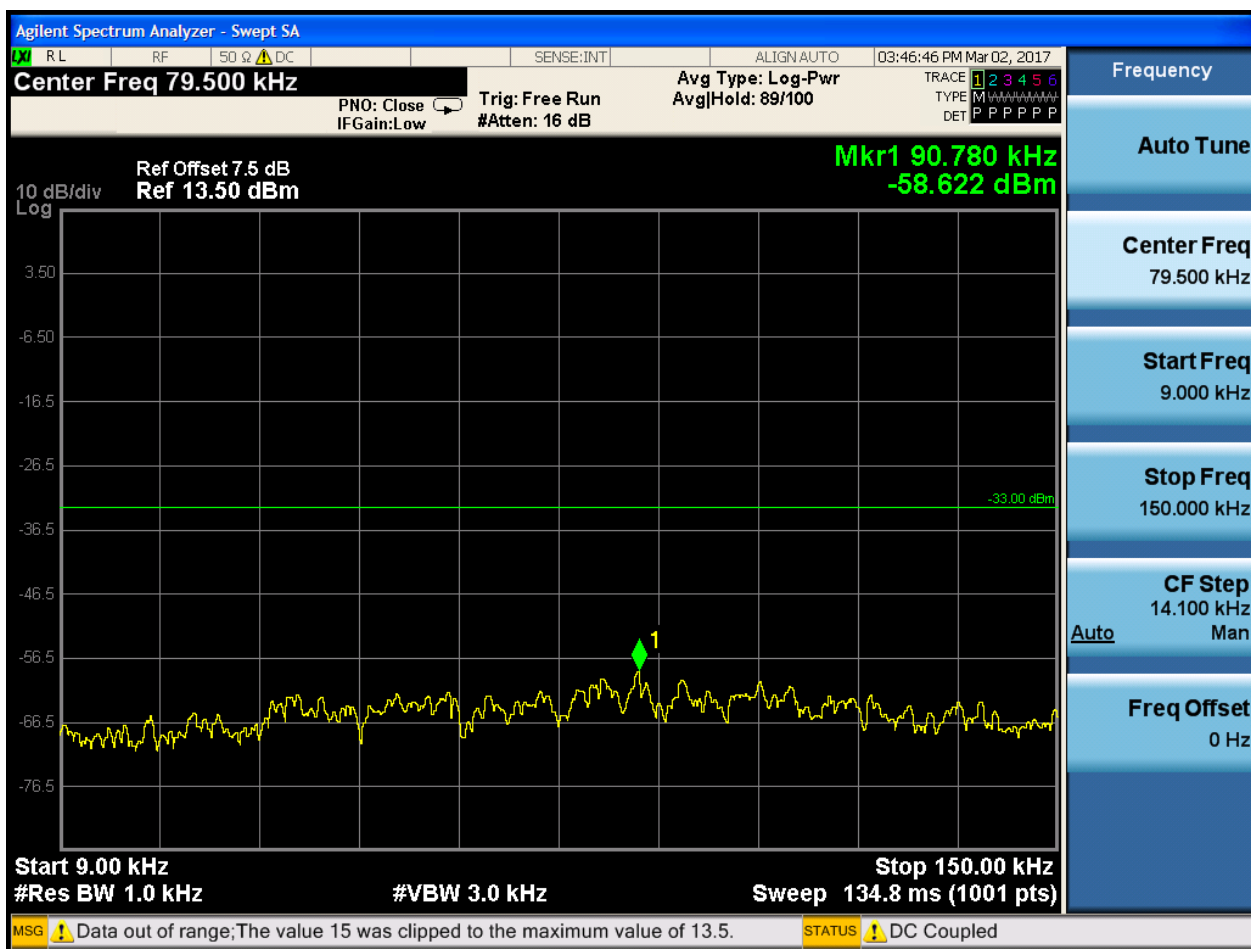
6.1.1 Test Band = BAND5

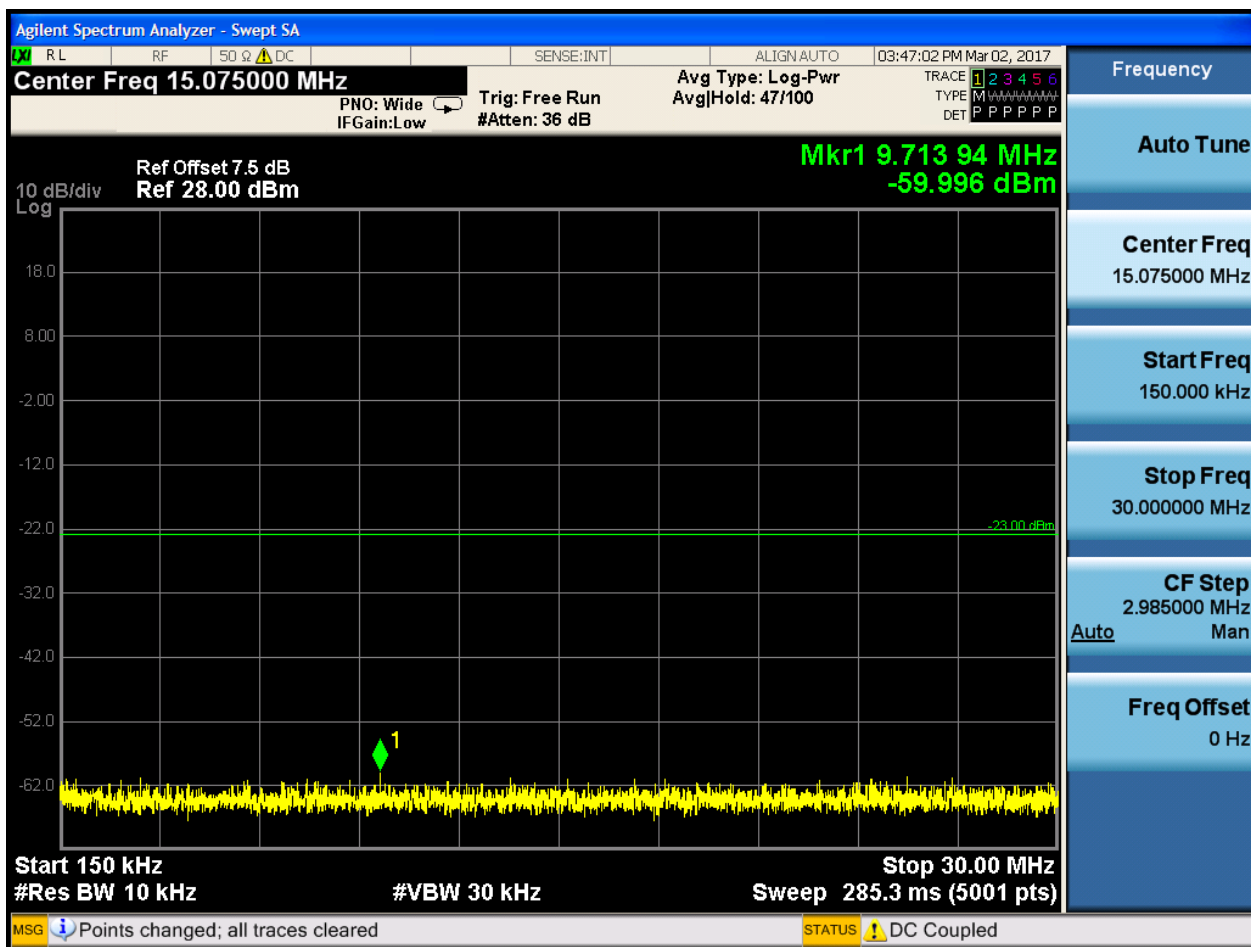
6.1.1.1 Test Mode = LTE/TM1

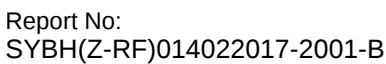
6.1.1.1.1 Test Bandwidth = 1.4

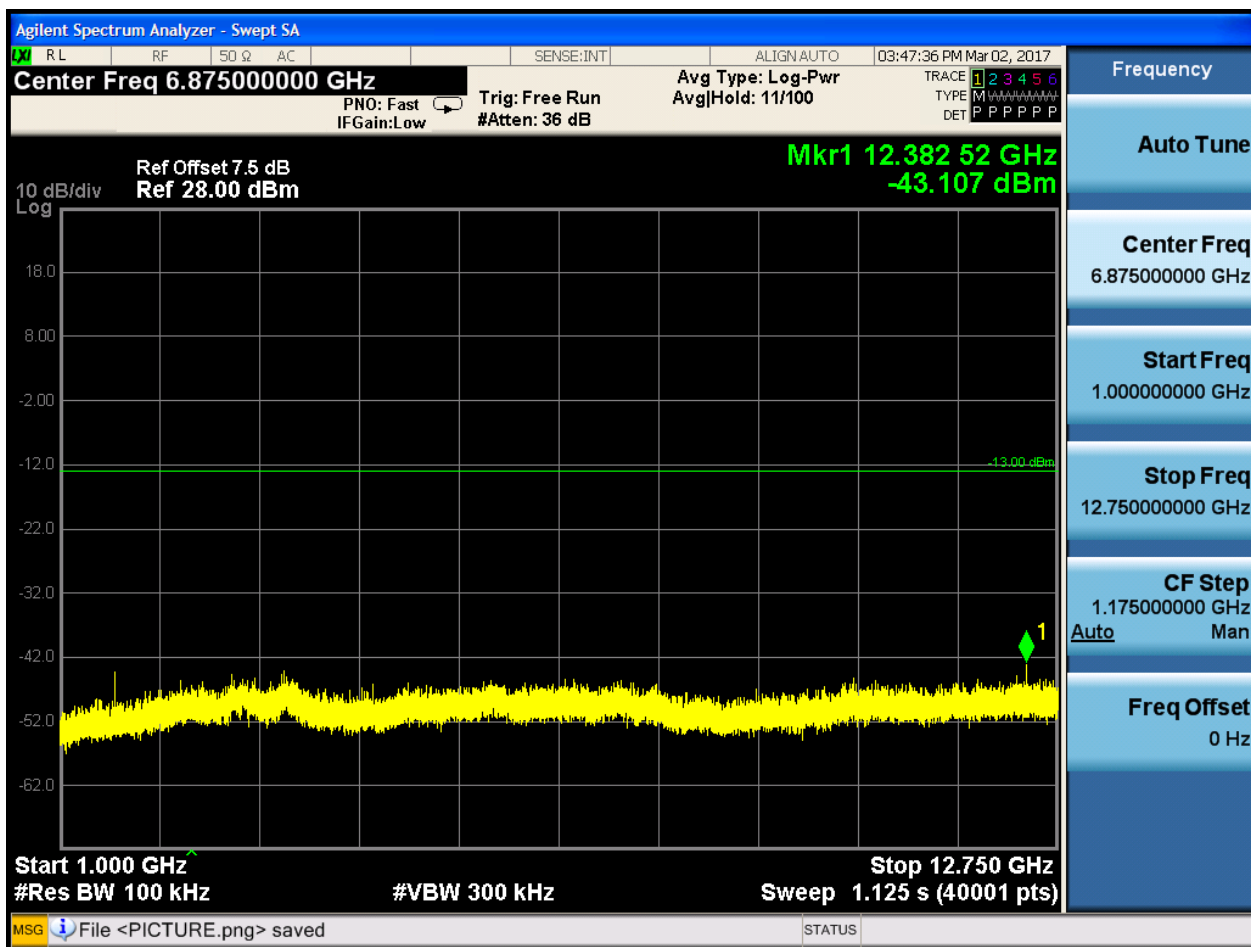
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





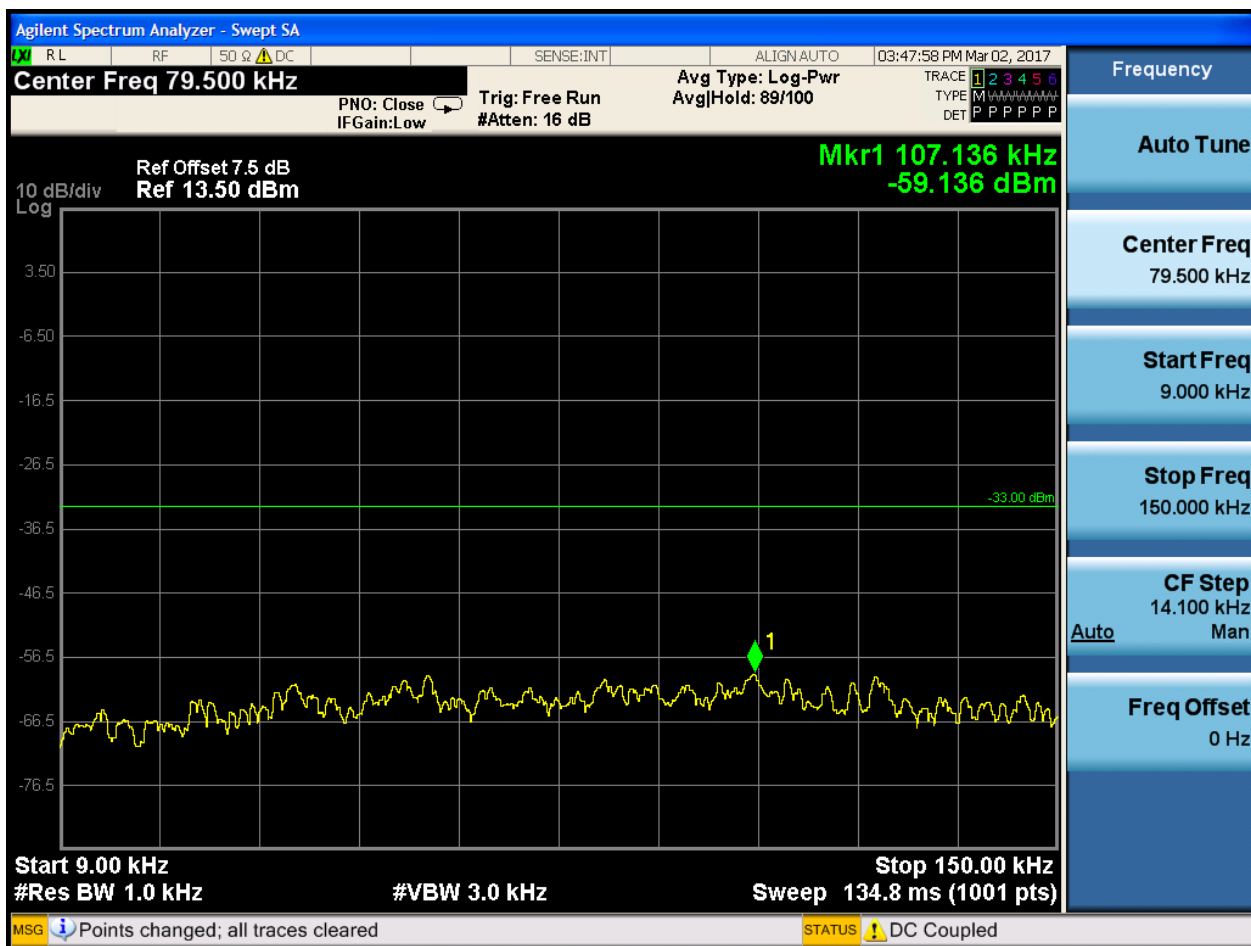


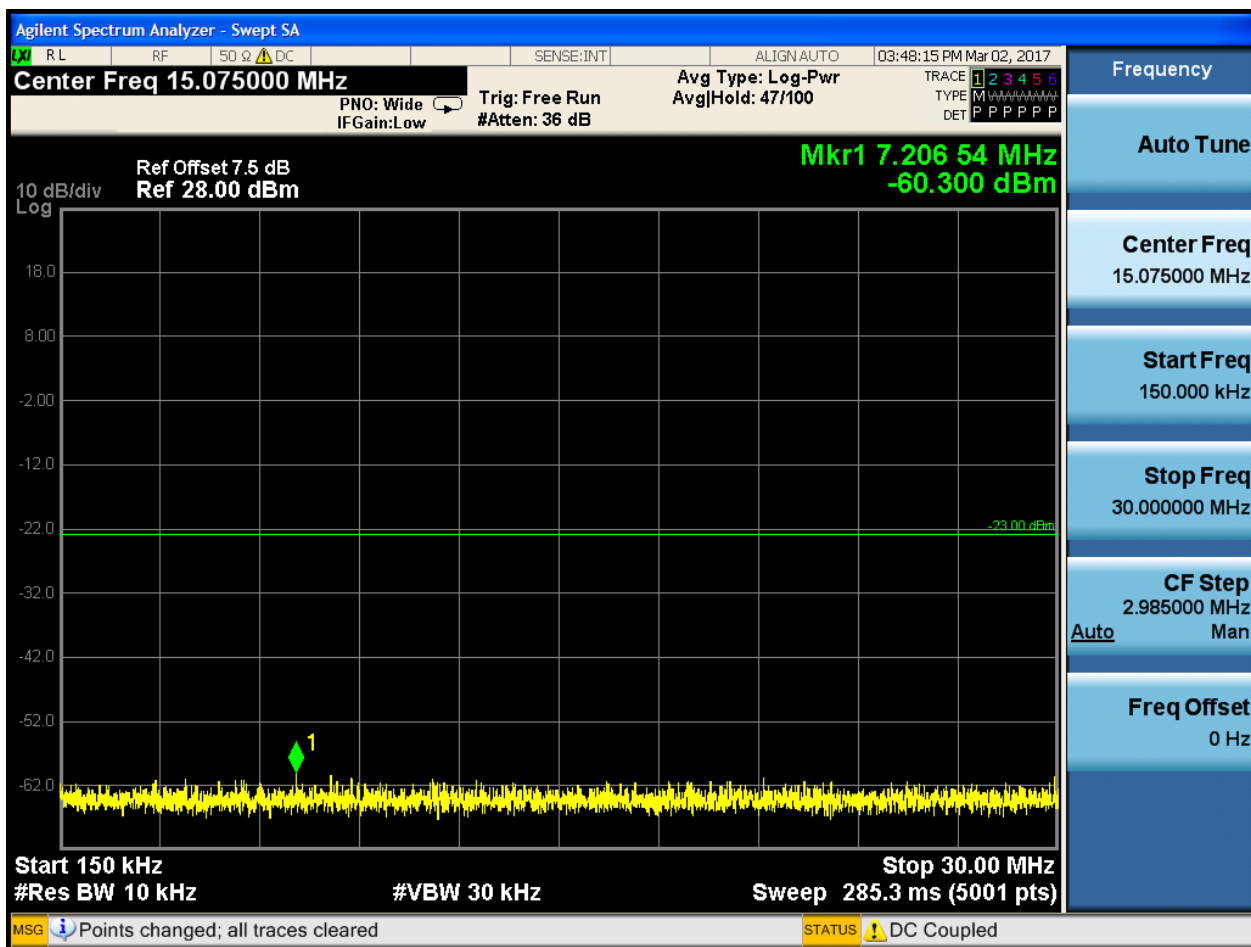


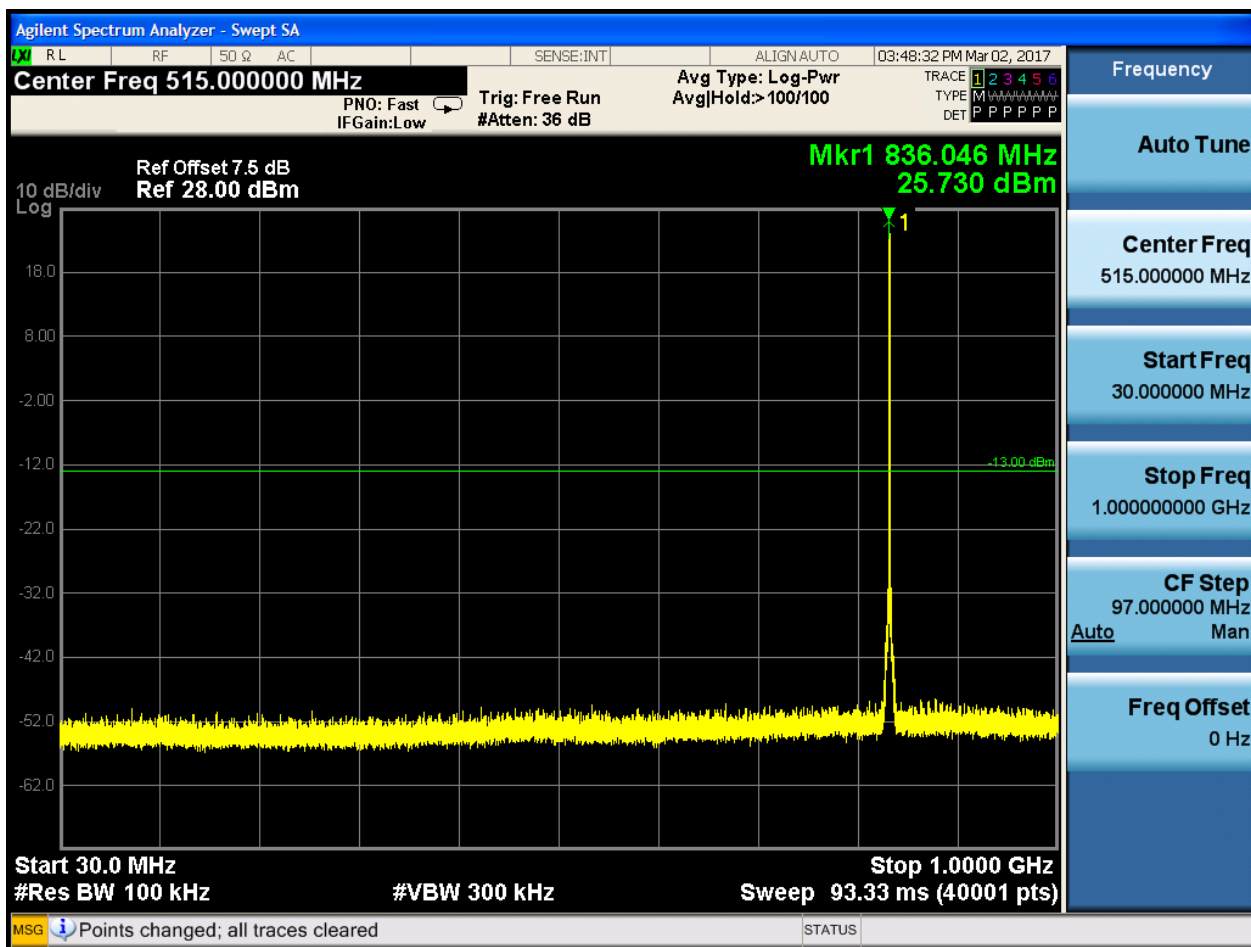


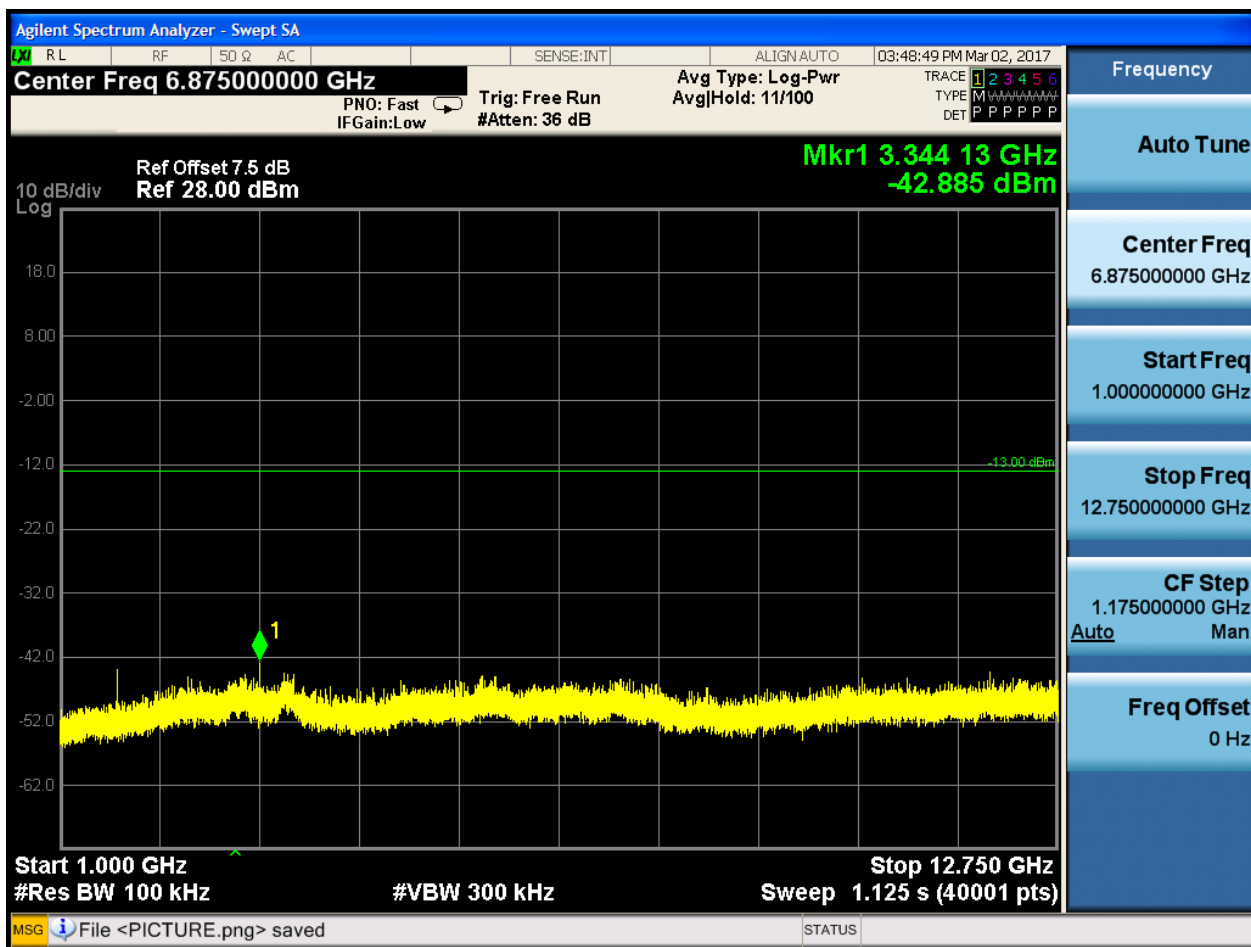
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0









6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0

