



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	18.07	38.5	PASS
				RB1#3	23.08	18.15	38.5	PASS
				RB1#5	23.07	18.14	38.5	PASS
				RB3#0	23.31	18.38	38.5	PASS
				RB3#2	23.28	18.35	38.5	PASS
				RB3#3	23.29	18.36	38.5	PASS
				RB6#0	22.21	17.28	38.5	PASS
			MCH	RB1#0	23.14	18.21	38.5	PASS
				RB1#3	23.14	18.21	38.5	PASS
				RB1#5	23.14	18.21	38.5	PASS
				RB3#0	23.03	18.1	38.5	PASS
				RB3#2	23.16	18.23	38.5	PASS
				RB3#3	23.17	18.24	38.5	PASS
				RB6#0	22.19	17.26	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	23.09	18.16	38.5	PASS
				RB1#3	23.38	18.45	38.5	PASS
				RB1#5	23.3	18.37	38.5	PASS
				RB3#0	23.11	18.18	38.5	PASS
				RB3#2	23.24	18.31	38.5	PASS
				RB3#3	23.19	18.26	38.5	PASS
				RB6#0	22.14	17.21	38.5	PASS
		3	LCH	RB1#0	23.16	18.23	38.5	PASS
				RB1#7	23.37	18.44	38.5	PASS
				RB1#14	23.23	18.3	38.5	PASS
				RB8#0	22.25	17.32	38.5	PASS
				RB8#4	22.21	17.28	38.5	PASS
				RB8#7	22.2	17.27	38.5	PASS
				RB15#0	22.28	17.35	38.5	PASS
			MCH	RB1#0	23.21	18.28	38.5	PASS
				RB1#7	23.28	18.35	38.5	PASS
				RB1#14	23.29	18.36	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	22.16	17.23	38.5	PASS
				RB8#4	22.16	17.23	38.5	PASS
				RB8#7	22.15	17.22	38.5	PASS
				RB15#0	22.22	17.29	38.5	PASS
			HCH	RB1#0	23.17	18.24	38.5	PASS
				RB1#7	23.41	18.48	38.5	PASS
				RB1#14	23.25	18.32	38.5	PASS
				RB8#0	22.29	17.36	38.5	PASS
				RB8#4	22.21	17.28	38.5	PASS
				RB8#7	22.16	17.23	38.5	PASS
				RB15#0	22.07	17.14	38.5	PASS
		5	LCH	RB1#0	23.17	18.24	38.5	PASS
				RB1#13	23.23	18.3	38.5	PASS
				RB1#24	23.21	18.28	38.5	PASS
				RB12#0	22.27	17.34	38.5	PASS
				RB12#6	22.27	17.34	38.5	PASS
				RB12#13	22.2	17.27	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.31	17.38	38.5	PASS
			MCH	RB1#0	23.14	18.21	38.5	PASS
				RB1#13	23.21	18.28	38.5	PASS
				RB1#24	23.17	18.24	38.5	PASS
				RB12#0	22.19	17.26	38.5	PASS
				RB12#6	22.28	17.35	38.5	PASS
				RB12#13	22.13	17.2	38.5	PASS
				RB25#0	22.17	17.24	38.5	PASS
			HCH	RB1#0	23.25	18.32	38.5	PASS
				RB1#13	23.34	18.41	38.5	PASS
				RB1#24	23.24	18.31	38.5	PASS
				RB12#0	22.14	17.21	38.5	PASS
				RB12#6	22.22	17.29	38.5	PASS
				RB12#13	22.21	17.28	38.5	PASS
				RB25#0	22.17	17.24	38.5	PASS
		10	LCH	RB1#0	22.98	18.05	38.5	PASS
				RB1#25	23.71	18.78	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	23.81	18.88	38.5	PASS
				RB25#0	22.31	17.38	38.5	PASS
				RB25#13	22.42	17.49	38.5	PASS
				RB25#25	22.32	17.39	38.5	PASS
				RB50#0	22.32	17.39	38.5	PASS
			MCH	RB1#0	23.31	18.38	38.5	PASS
				RB1#25	23.62	18.69	38.5	PASS
				RB1#49	23.31	18.38	38.5	PASS
				RB25#0	22.24	17.31	38.5	PASS
				RB25#13	22.31	17.38	38.5	PASS
				RB25#25	22.16	17.23	38.5	PASS
				RB50#0	22.15	17.22	38.5	PASS
			HCH	RB1#0	23.33	18.4	38.5	PASS
				RB1#25	23.57	18.64	38.5	PASS
				RB1#49	23.17	18.24	38.5	PASS
				RB25#0	22.23	17.3	38.5	PASS
				RB25#13	22.24	17.31	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	22.19	17.26	38.5	PASS
				RB50#0	22.26	17.33	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	22.02	17.09	38.5	PASS
				RB1#3	22.01	17.08	38.5	PASS
				RB1#5	22.04	17.11	38.5	PASS
				RB3#0	22.24	17.31	38.5	PASS
				RB3#2	22.17	17.24	38.5	PASS
				RB3#3	22.28	17.35	38.5	PASS
				RB6#0	21.19	16.26	38.5	PASS
			MCH	RB1#0	21.83	16.9	38.5	PASS
				RB1#3	21.87	16.94	38.5	PASS
				RB1#5	21.77	16.84	38.5	PASS
				RB3#0	22.16	17.23	38.5	PASS
				RB3#2	22.31	17.38	38.5	PASS
				RB3#3	22.4	17.47	38.5	PASS
				RB6#0	21.1	16.17	38.5	PASS
			HCH	RB1#0	21.9	16.97	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	22.09	17.16	38.5	PASS
				RB1#5	21.92	16.99	38.5	PASS
				RB3#0	22.05	17.12	38.5	PASS
				RB3#2	22.13	17.2	38.5	PASS
				RB3#3	22.17	17.24	38.5	PASS
				RB6#0	21.21	16.28	38.5	PASS
		3	LCH	RB1#0	22.42	17.49	38.5	PASS
				RB1#7	22.38	17.45	38.5	PASS
				RB1#14	22	17.07	38.5	PASS
				RB8#0	21.16	16.23	38.5	PASS
				RB8#4	21.15	16.22	38.5	PASS
				RB8#7	21.15	16.22	38.5	PASS
				RB15#0	21.24	16.31	38.5	PASS
			MCH	RB1#0	22.17	17.24	38.5	PASS
				RB1#7	22.36	17.43	38.5	PASS
				RB1#14	22.21	17.28	38.5	PASS
				RB8#0	21.14	16.21	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#4	21.14	16.21	38.5	PASS
				RB8#7	21.14	16.21	38.5	PASS
				RB15#0	21.14	16.21	38.5	PASS
			HCH	RB1#0	21.86	16.93	38.5	PASS
				RB1#7	22.12	17.19	38.5	PASS
				RB1#14	21.79	16.86	38.5	PASS
				RB8#0	20.92	15.99	38.5	PASS
				RB8#4	21	16.07	38.5	PASS
				RB8#7	20.99	16.06	38.5	PASS
				RB15#0	20.99	16.06	38.5	PASS
		5	LCH	RB1#0	22.15	17.22	38.5	PASS
				RB1#13	21.91	16.98	38.5	PASS
				RB1#24	22.01	17.08	38.5	PASS
				RB12#0	21.28	16.35	38.5	PASS
				RB12#6	21.44	16.51	38.5	PASS
				RB12#13	21.38	16.45	38.5	PASS
				RB25#0	21.39	16.46	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	22.09	17.16	38.5	PASS
				RB1#13	22.42	17.49	38.5	PASS
				RB1#24	21.82	16.89	38.5	PASS
				RB12#0	21.33	16.4	38.5	PASS
				RB12#6	21.41	16.48	38.5	PASS
				RB12#13	21.35	16.42	38.5	PASS
				RB25#0	21.11	16.18	38.5	PASS
			HCH	RB1#0	22.36	17.43	38.5	PASS
				RB1#13	22.43	17.5	38.5	PASS
				RB1#24	22.38	17.45	38.5	PASS
				RB12#0	21.13	16.2	38.5	PASS
				RB12#6	21.1	16.17	38.5	PASS
				RB12#13	20.95	16.02	38.5	PASS
				RB25#0	21.02	16.09	38.5	PASS
		10	LCH	RB1#0	22.35	17.42	38.5	PASS
				RB1#25	22.5	17.57	38.5	PASS
				RB1#49	22.21	17.28	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.15	16.22	38.5	PASS
				RB25#13	21.26	16.33	38.5	PASS
				RB25#25	21.16	16.23	38.5	PASS
				RB50#0	21.17	16.24	38.5	PASS
			MCH	RB1#0	21.33	16.4	38.5	PASS
				RB1#25	22.43	17.5	38.5	PASS
				RB1#49	21.33	16.4	38.5	PASS
				RB25#0	21.03	16.1	38.5	PASS
				RB25#13	21.32	16.39	38.5	PASS
				RB25#25	21.07	16.14	38.5	PASS
				RB50#0	20.98	16.05	38.5	PASS
			HCH	RB1#0	21.97	17.04	38.5	PASS
				RB1#25	22.04	17.11	38.5	PASS
				RB1#49	21.83	16.9	38.5	PASS
				RB25#0	21.03	16.1	38.5	PASS
				RB25#13	21.03	16.1	38.5	PASS
				RB25#25	21.09	16.16	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.06	16.13	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	4.36	13	PASS
				RB1#3	4.32	13	PASS
				RB1#5	4.35	13	PASS
				RB3#0	4.74	13	PASS
				RB3#2	4.76	13	PASS
				RB3#3	4.75	13	PASS
				RB6#0	5.62	13	PASS
			MCH	RB1#0	4.24	13	PASS
				RB1#3	4.18	13	PASS
				RB1#5	4.26	13	PASS
				RB3#0	4.62	13	PASS
				RB3#2	4.66	13	PASS
				RB3#3	4.64	13	PASS
				RB6#0	5.53	13	PASS
			HCH	RB1#0	4.51	13	PASS
				RB1#3	4.34	13	PASS
				RB1#5	4.28	13	PASS
				RB3#0	4.35	13	PASS
				RB3#2	4.2	13	PASS
				RB3#3	4.23	13	PASS
				RB6#0	5.25	13	PASS
		3	LCH	RB1#0	4.57	13	PASS
				RB1#7	4.49	13	PASS
				RB1#14	4.56	13	PASS
				RB8#0	5.27	13	PASS
				RB8#4	5.19	13	PASS
				RB8#7	5.25	13	PASS
				RB15#0	5.43	13	PASS
			MCH	RB1#0	4.42	13	PASS
				RB1#7	4.57	13	PASS
				RB1#14	4.65	13	PASS
				RB8#0	5.33	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	5.21	13	PASS
				RB8#7	5.3	13	PASS
				RB15#0	5.77	13	PASS
			HCH	RB1#0	4.54	13	PASS
				RB1#7	4.36	13	PASS
				RB1#14	4.29	13	PASS
				RB8#0	5.21	13	PASS
				RB8#4	5.06	13	PASS
				RB8#7	5.12	13	PASS
				RB15#0	5.61	13	PASS
		5	LCH	RB1#0	4.58	13	PASS
				RB1#13	4.52	13	PASS
				RB1#24	4.65	13	PASS
				RB12#0	5.16	13	PASS
				RB12#6	5.08	13	PASS
				RB12#13	5.15	13	PASS
				RB25#0	5.62	13	PASS
			MCH	RB1#0	4.45	13	PASS
				RB1#13	4.3	13	PASS
				RB1#24	4.43	13	PASS
				RB12#0	5.18	13	PASS
				RB12#6	5.01	13	PASS
				RB12#13	5.2	13	PASS
				RB25#0	5.62	13	PASS
			HCH	RB1#0	4.56	13	PASS
				RB1#13	4.4	13	PASS
				RB1#24	4.4	13	PASS
				RB12#0	5	13	PASS
				RB12#6	4.99	13	PASS
				RB12#13	4.97	13	PASS
				RB25#0	5.64	13	PASS
		10	LCH	RB1#0	4.63	13	PASS
				RB1#25	4.43	13	PASS
				RB1#49	4.5	13	PASS
				RB25#0	5.18	13	PASS
				RB25#13	5.12	13	PASS
				RB25#25	5.22	13	PASS
				RB50#0	6.28	13	PASS
			MCH	RB1#0	4.62	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#25	4.52	13	PASS
				RB1#49	4.63	13	PASS
				RB25#0	5.16	13	PASS
				RB25#13	5.14	13	PASS
				RB25#25	5.23	13	PASS
				RB50#0	6.21	13	PASS
			HCH	RB1#0	4.46	13	PASS
				RB1#25	4.51	13	PASS
				RB1#49	4.44	13	PASS
				RB25#0	5.2	13	PASS
				RB25#13	5.1	13	PASS
				RB25#25	5.12	13	PASS
				RB50#0	5.96	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.53	13	PASS
				RB1#3	5.44	13	PASS
				RB1#5	5.53	13	PASS
				RB3#0	5.73	13	PASS
				RB3#2	5.63	13	PASS
				RB3#3	5.74	13	PASS
				RB6#0	6.17	13	PASS
			MCH	RB1#0	5.39	13	PASS
				RB1#3	5.33	13	PASS
				RB1#5	5.39	13	PASS
				RB3#0	5.55	13	PASS
				RB3#2	5.45	13	PASS
				RB3#3	5.57	13	PASS
				RB6#0	5.98	13	PASS
			HCH	RB1#0	5.48	13	PASS
				RB1#3	5.37	13	PASS
				RB1#5	5.18	13	PASS
				RB3#0	5.3	13	PASS
				RB3#2	5.1	13	PASS
				RB3#3	5.08	13	PASS
				RB6#0	6	13	PASS
		3	LCH	RB1#0	5.34	13	PASS
				RB1#7	5.23	13	PASS
				RB1#14	5.44	13	PASS
				RB8#0	6.1	13	PASS
				RB8#4	6.05	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#7	6.09	13	PASS
				RB15#0	6.6	13	PASS
			MCH	RB1#0	5.25	13	PASS
				RB1#7	5.1	13	PASS
				RB1#14	5.25	13	PASS
				RB8#0	5.94	13	PASS
				RB8#4	5.86	13	PASS
				RB8#7	6.02	13	PASS
				RB15#0	6.47	13	PASS
			HCH	RB1#0	5.48	13	PASS
				RB1#7	5.33	13	PASS
				RB1#14	5.38	13	PASS
				RB8#0	6	13	PASS
				RB8#4	6.03	13	PASS
				RB8#7	5.88	13	PASS
				RB15#0	6.42	13	PASS
		5	LCH	RB1#0	5.55	13	PASS
				RB1#13	5.49	13	PASS
				RB1#24	5.62	13	PASS
				RB12#0	6.04	13	PASS
				RB12#6	6.03	13	PASS
				RB12#13	6.02	13	PASS
				RB25#0	6.74	13	PASS
			MCH	RB1#0	4.93	13	PASS
				RB1#13	4.75	13	PASS
				RB1#24	4.93	13	PASS
				RB12#0	6.03	13	PASS
				RB12#6	5.92	13	PASS
				RB12#13	5.98	13	PASS
				RB25#0	6.77	13	PASS
			HCH	RB1#0	5.3	13	PASS
				RB1#13	5.3	13	PASS
				RB1#24	5.37	13	PASS
				RB12#0	5.97	13	PASS
				RB12#6	5.97	13	PASS
				RB12#13	5.93	13	PASS
				RB25#0	6.56	13	PASS
		10	LCH	RB1#0	5.34	13	PASS
				RB1#25	5.34	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	5.43	13	PASS
				RB25#0	6.13	13	PASS
				RB25#13	6.1	13	PASS
				RB25#25	6.15	13	PASS
				RB50#0	6.94	13	PASS
			MCH	RB1#0	5.74	13	PASS
				RB1#25	5.63	13	PASS
				RB1#49	5.74	13	PASS
				RB25#0	6.27	13	PASS
				RB25#13	6.22	13	PASS
				RB25#25	6.32	13	PASS
				RB50#0	6.39	13	PASS
			HCH	RB1#0	5.4	13	PASS
				RB1#25	5.53	13	PASS
				RB1#49	5.46	13	PASS
				RB25#0	6.14	13	PASS
				RB25#13	6	13	PASS
				RB25#25	6.07	13	PASS
				RB50#0	6.68	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

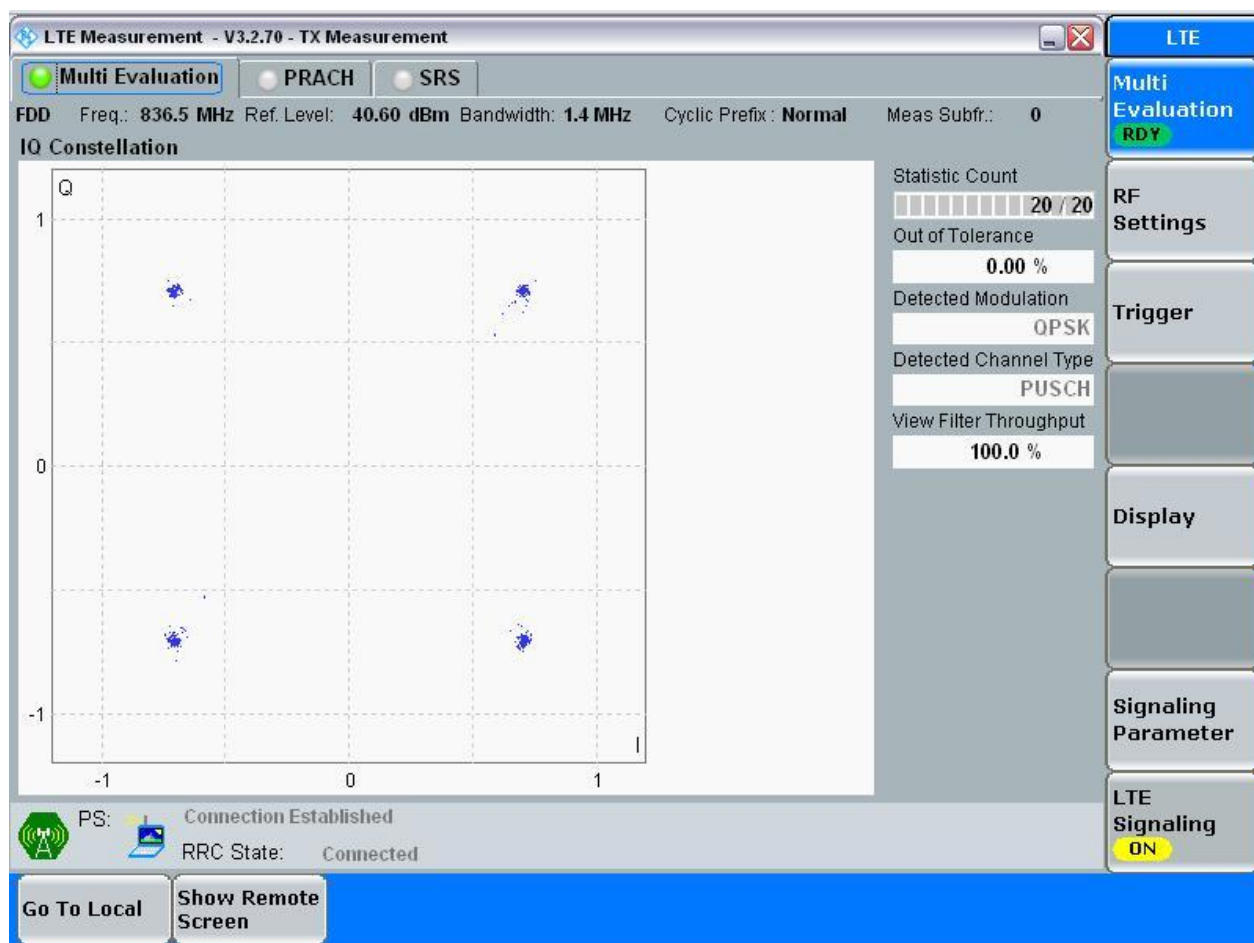
3.1.1 Test Band = BAND5

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

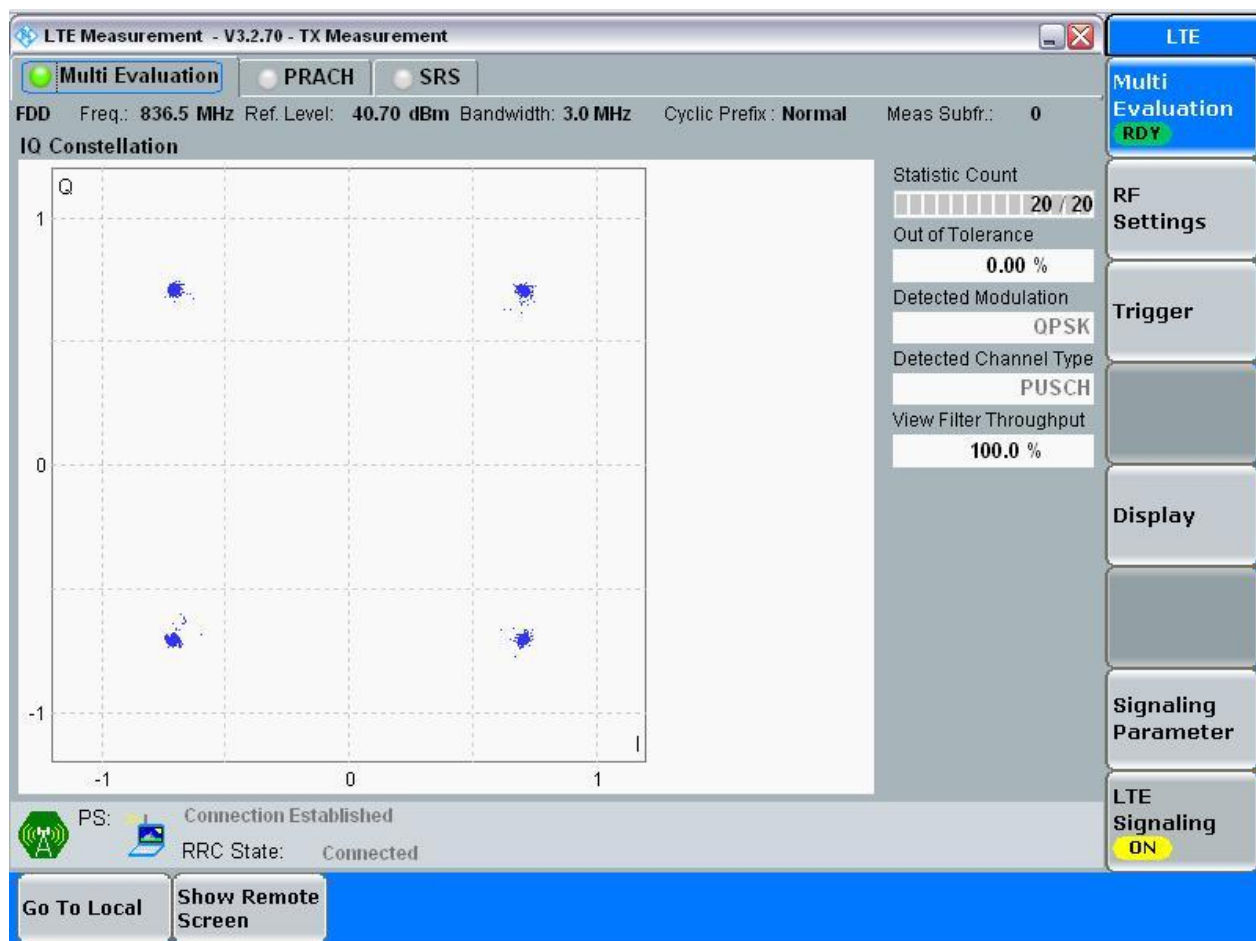
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

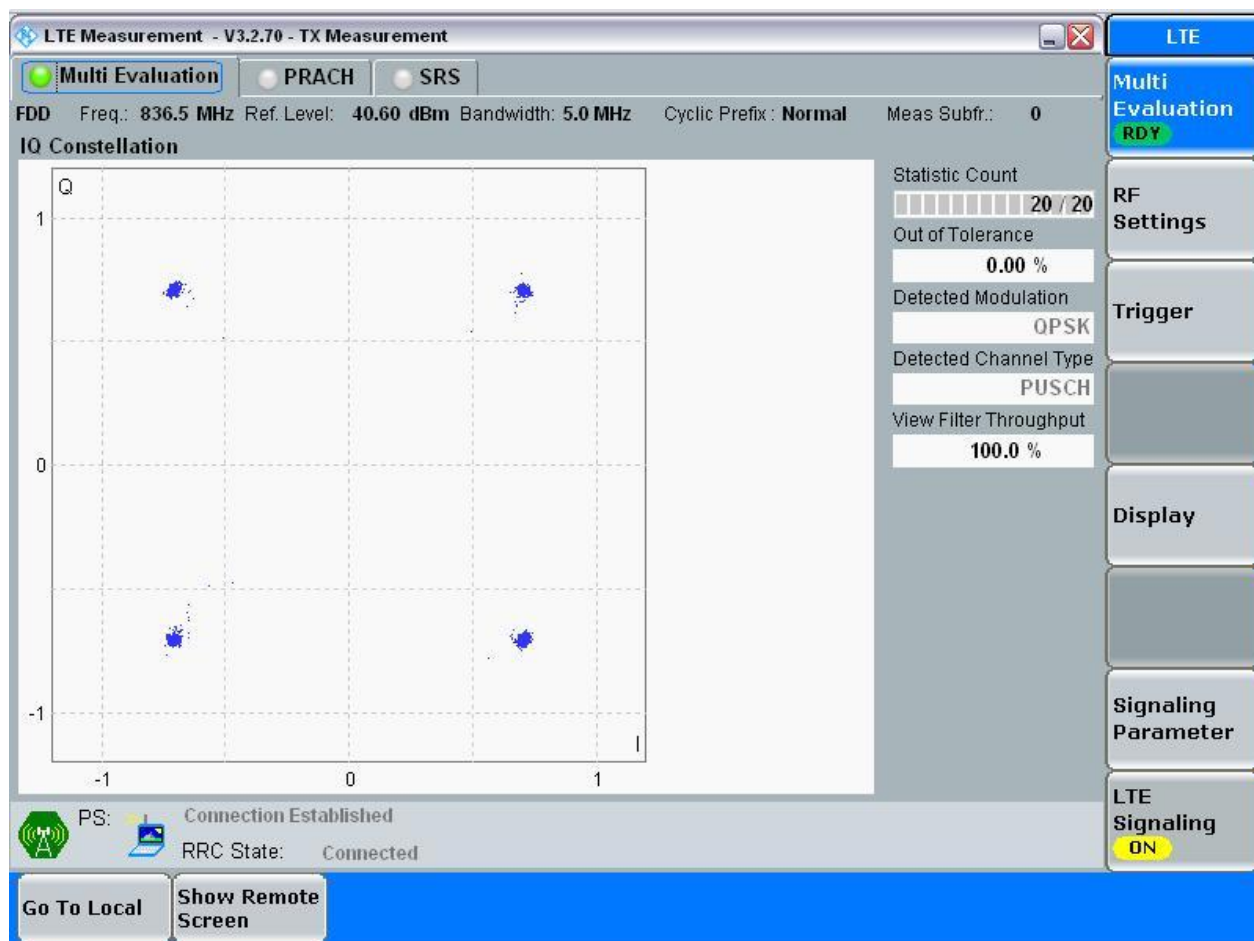
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

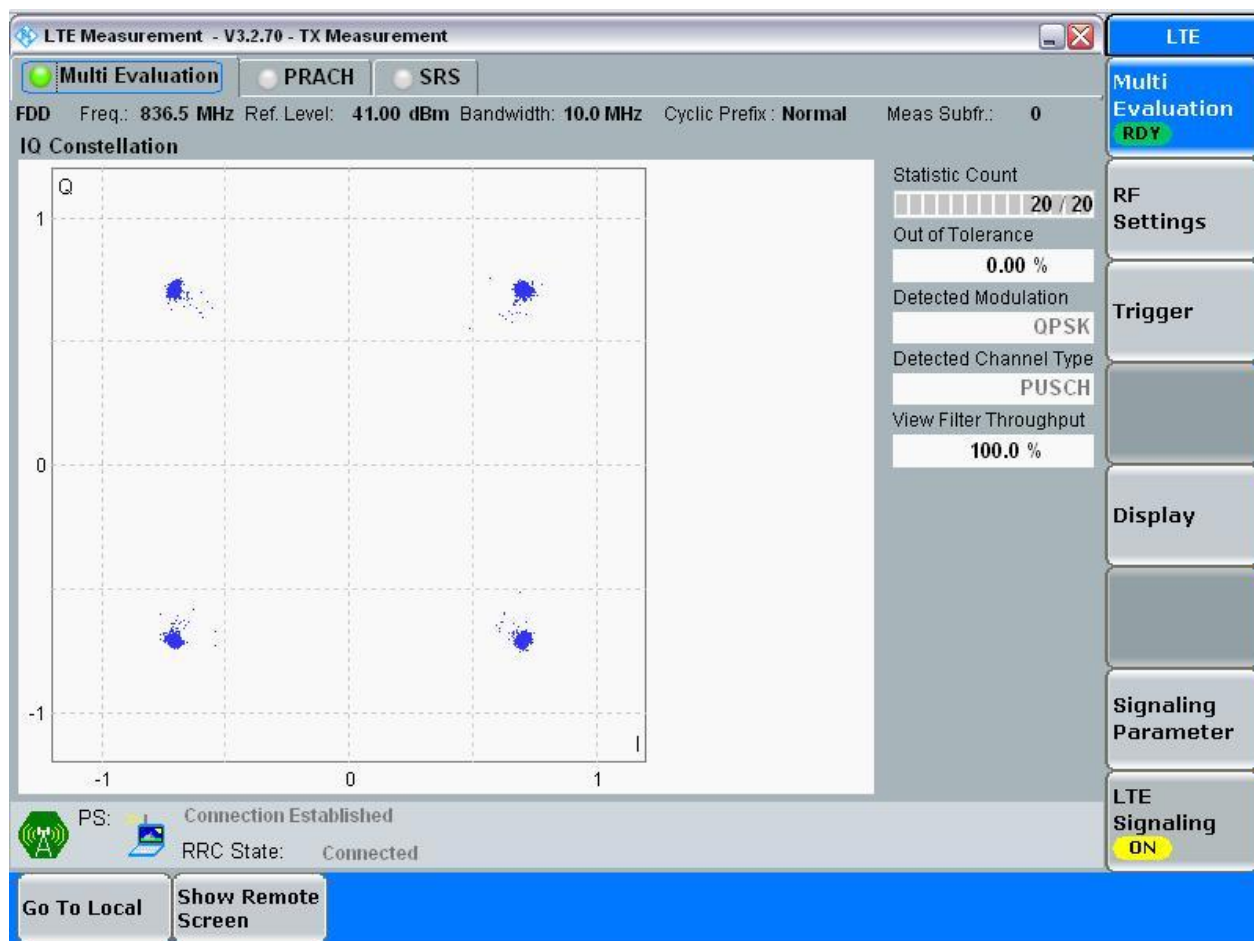
3.1.1.1.3.1.1 Test RB = RB25#0



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

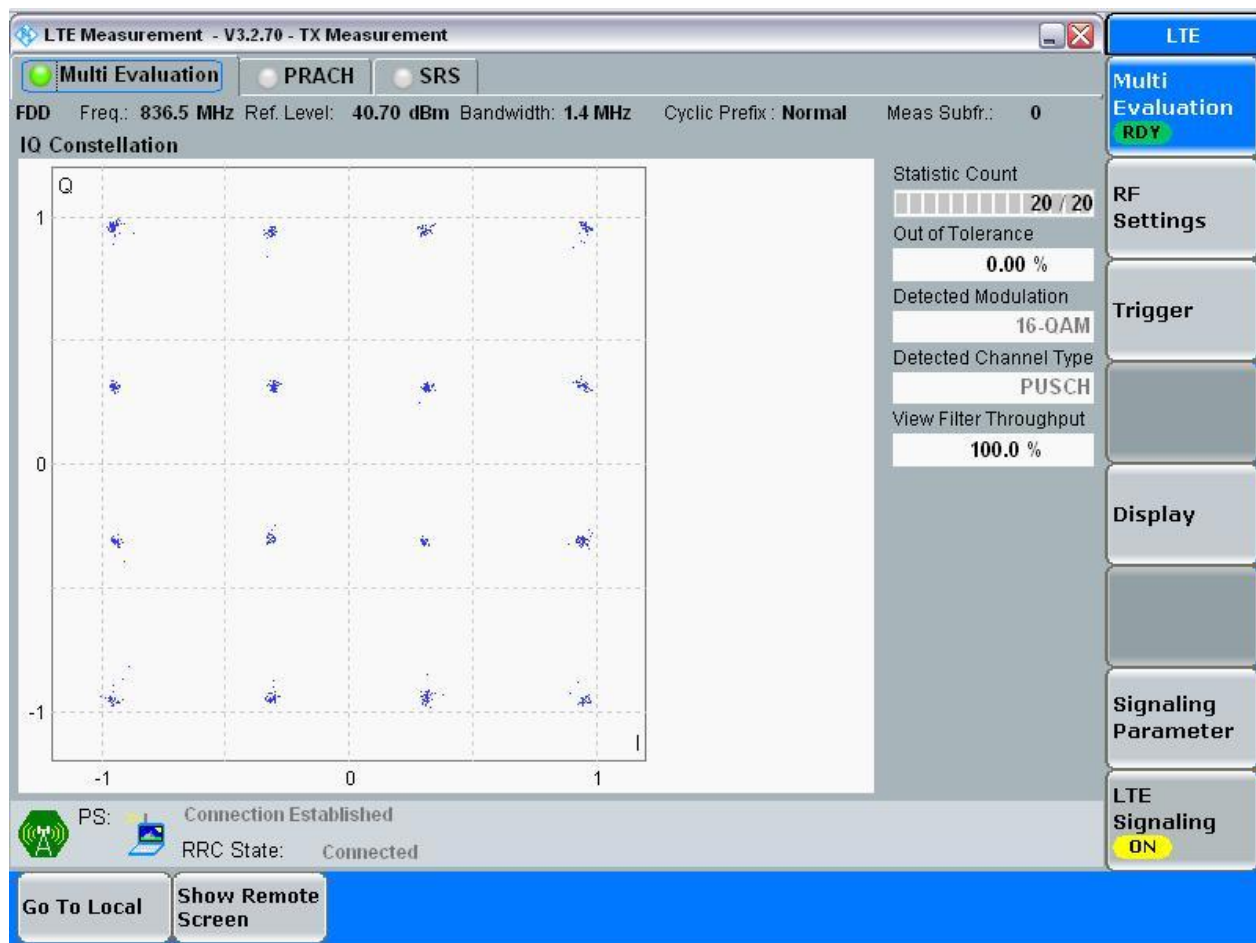


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

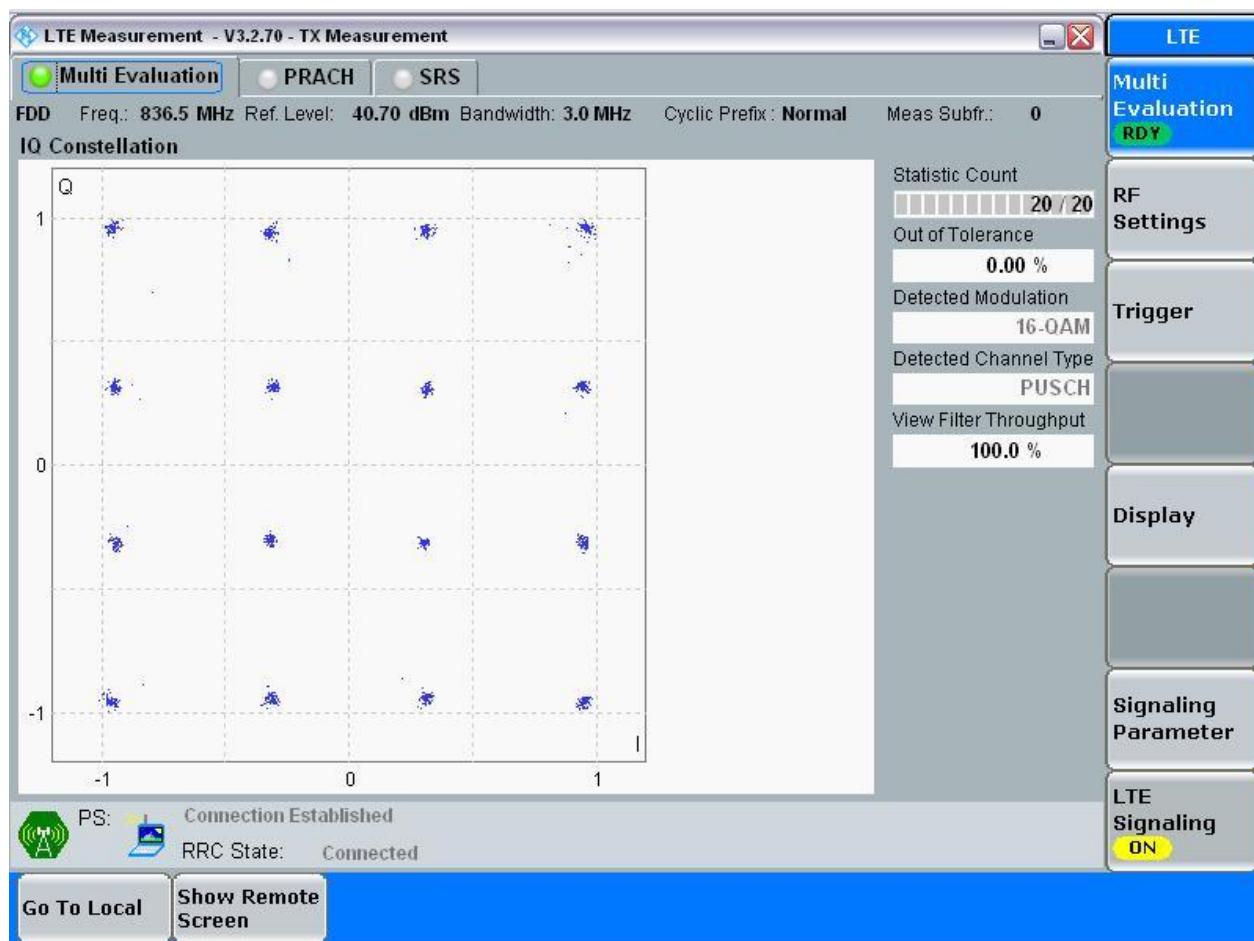
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

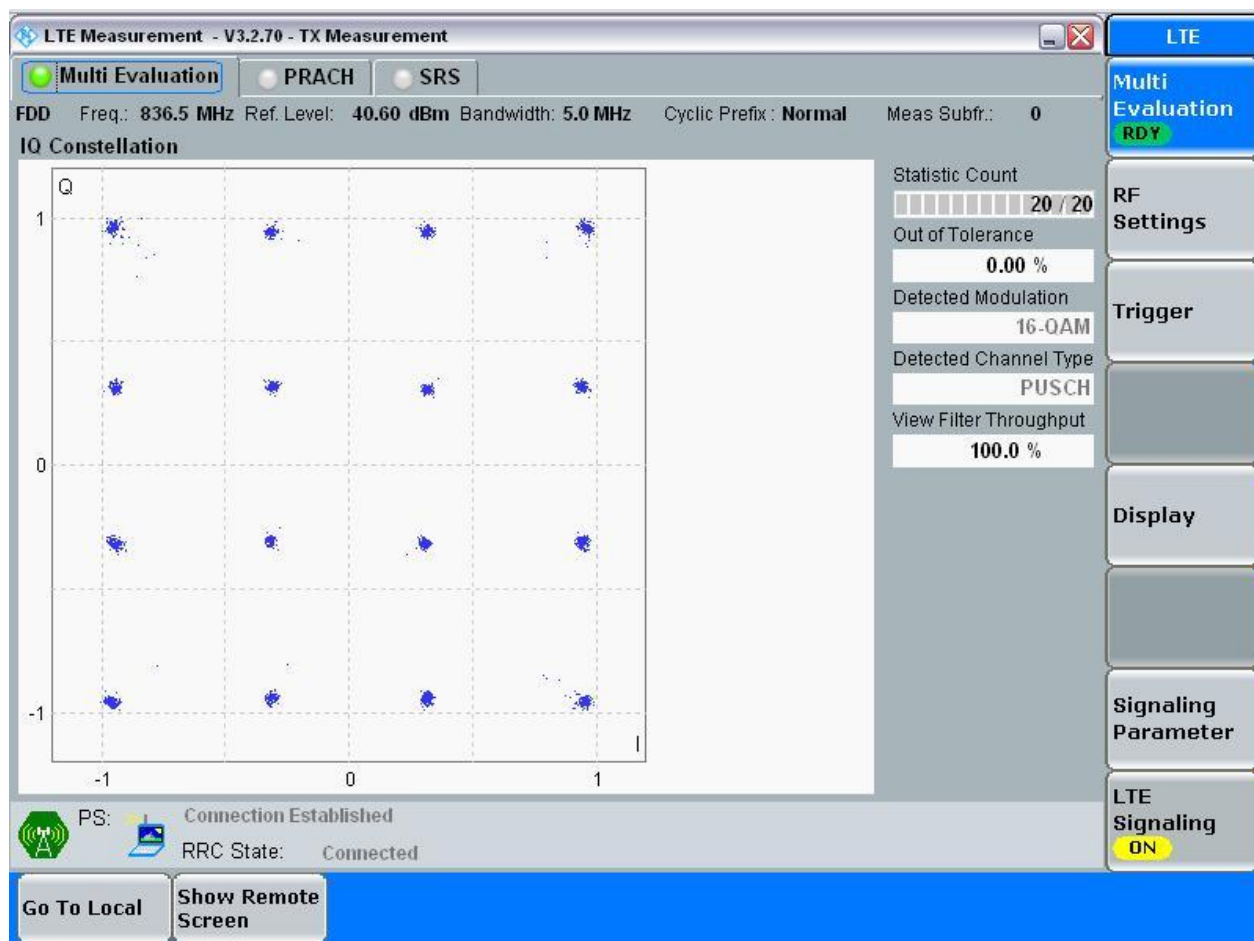
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

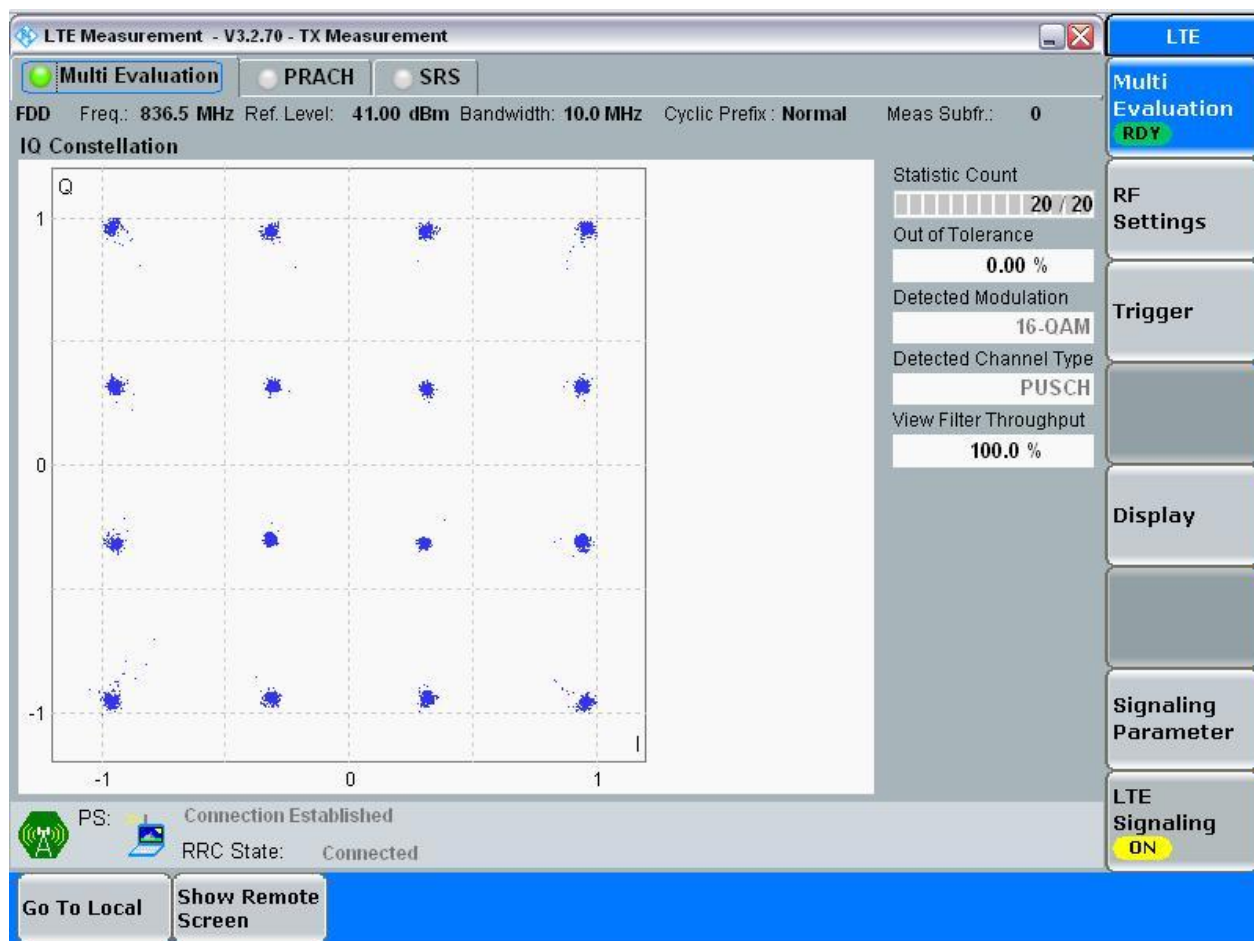
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.28	Pass
			MCH	RB6#0	1.09	1.28	Pass
			HCH	RB6#0	1.09	1.29	Pass
		3	LCH	RB15#0	2.70	2.99	Pass
			MCH	RB15#0	2.70	3.00	Pass
			HCH	RB15#0	2.71	2.99	Pass
		5	LCH	RB25#0	4.51	4.99	Pass
			MCH	RB25#0	4.50	5.00	Pass
			HCH	RB25#0	4.51	5.04	Pass
		10	LCH	RB50#0	8.99	9.91	Pass
			MCH	RB50#0	8.95	9.85	Pass
			HCH	RB50#0	8.98	9.90	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.30	Pass
			MCH	RB6#0	1.10	1.31	Pass
			HCH	RB6#0	1.09	1.31	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.70	3.01	Pass
		5	LCH	RB25#0	4.52	5.04	Pass
			MCH	RB25#0	4.52	5.02	Pass
			HCH	RB25#0	4.52	5.01	Pass
		10	LCH	RB50#0	9.00	9.92	Pass
			MCH	RB50#0	8.96	9.90	Pass
			HCH	RB50#0	9.00	9.96	Pass



Part II - Test Plots

4.1 For LTE

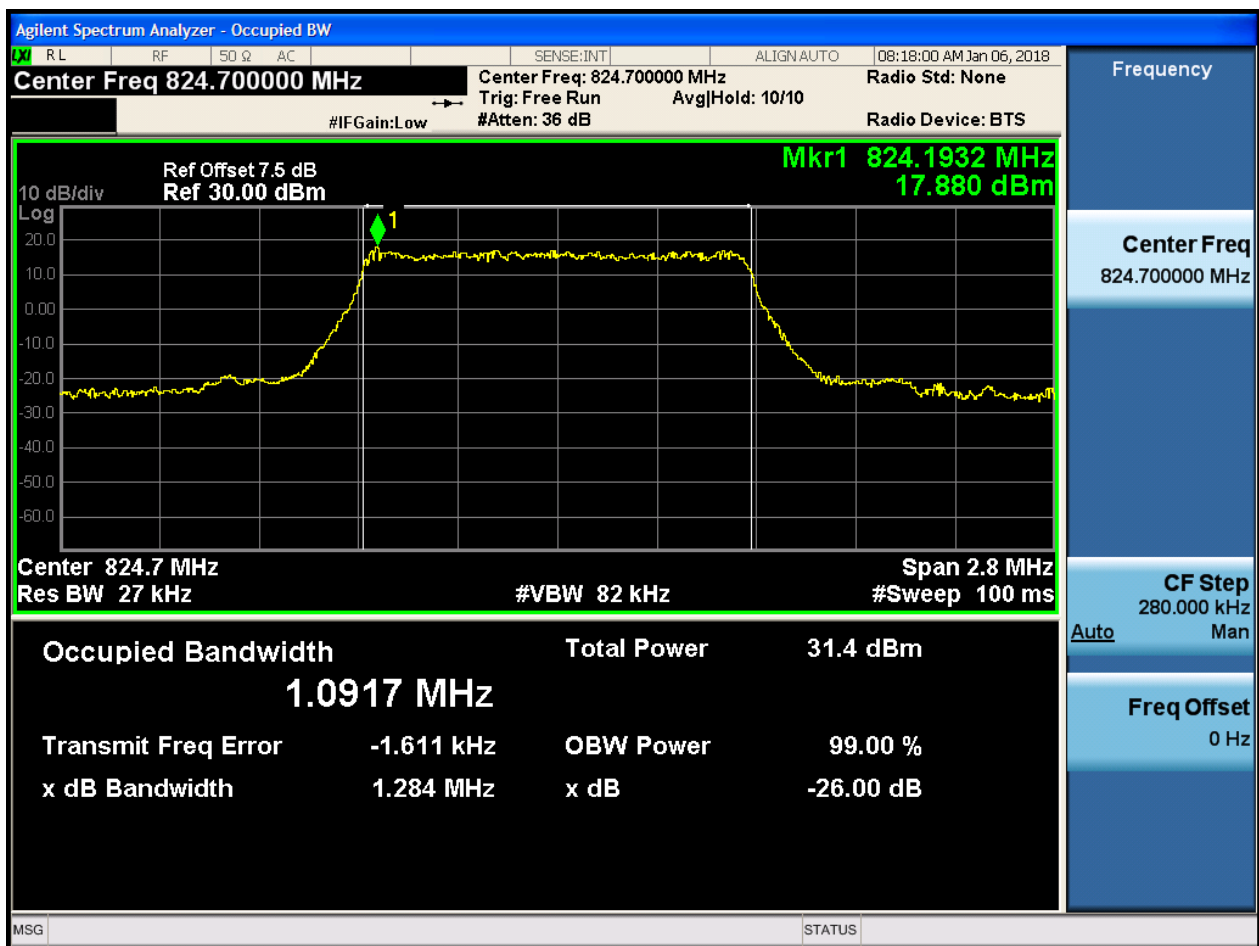
4.1.1 Test Band = BAND5

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

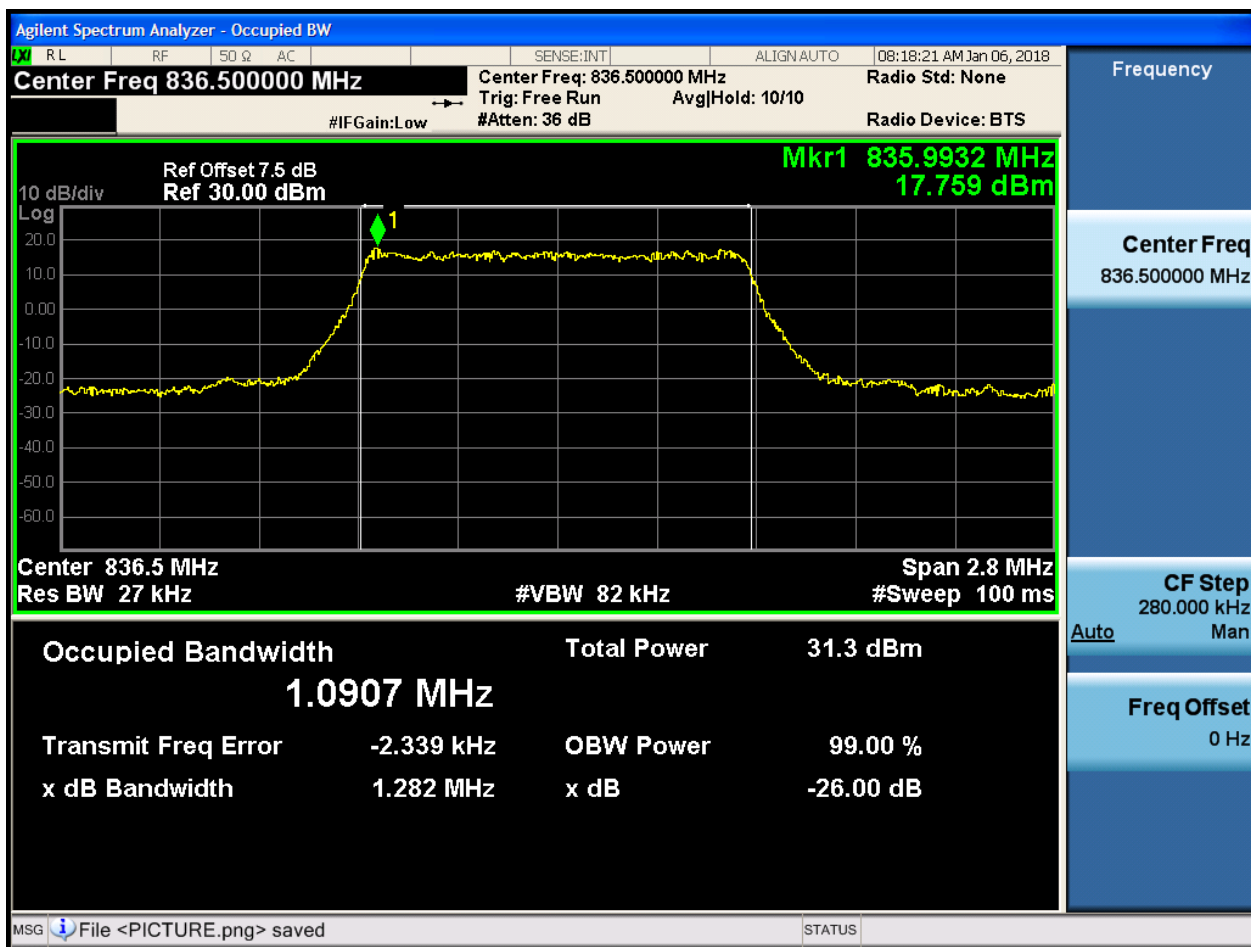
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

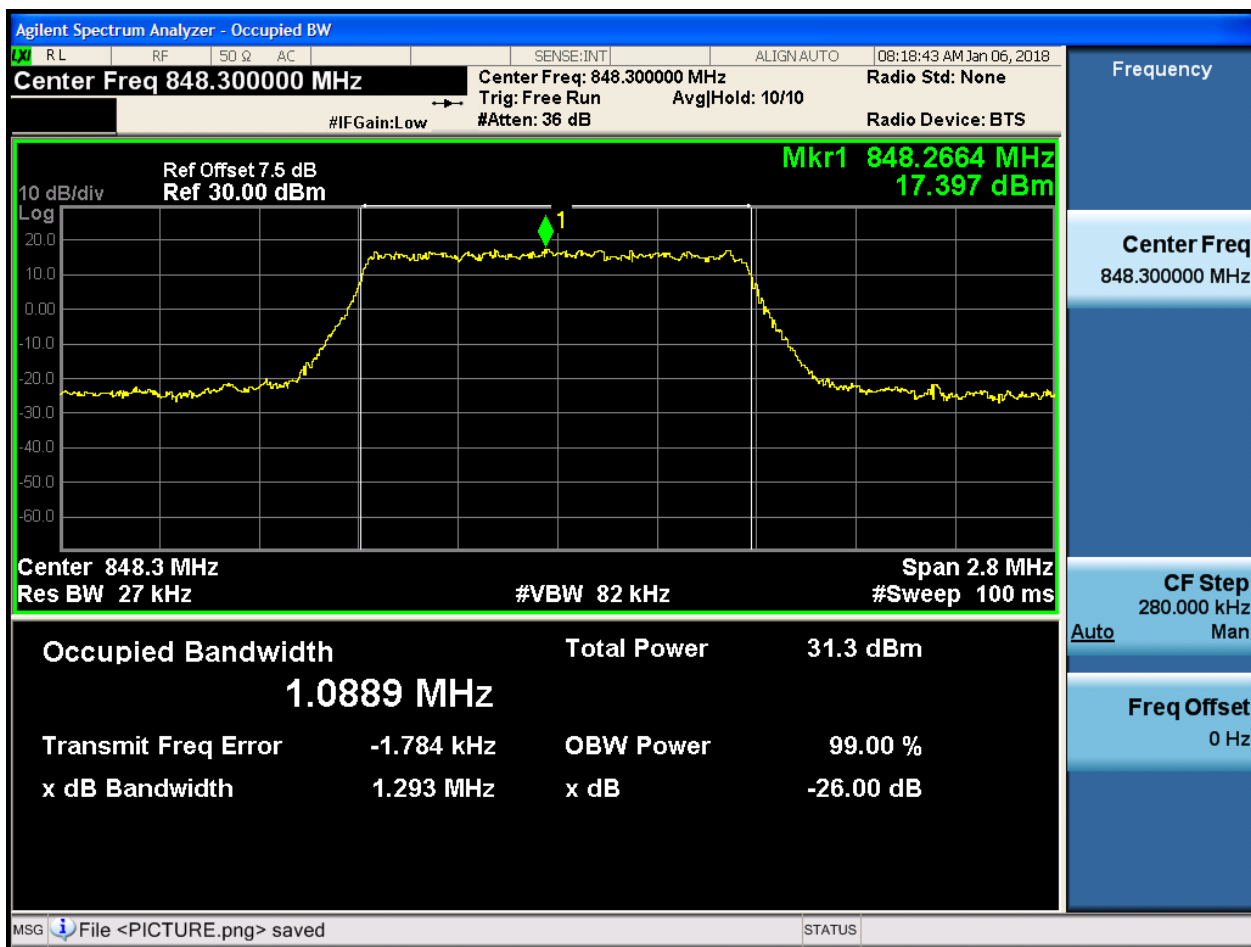
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

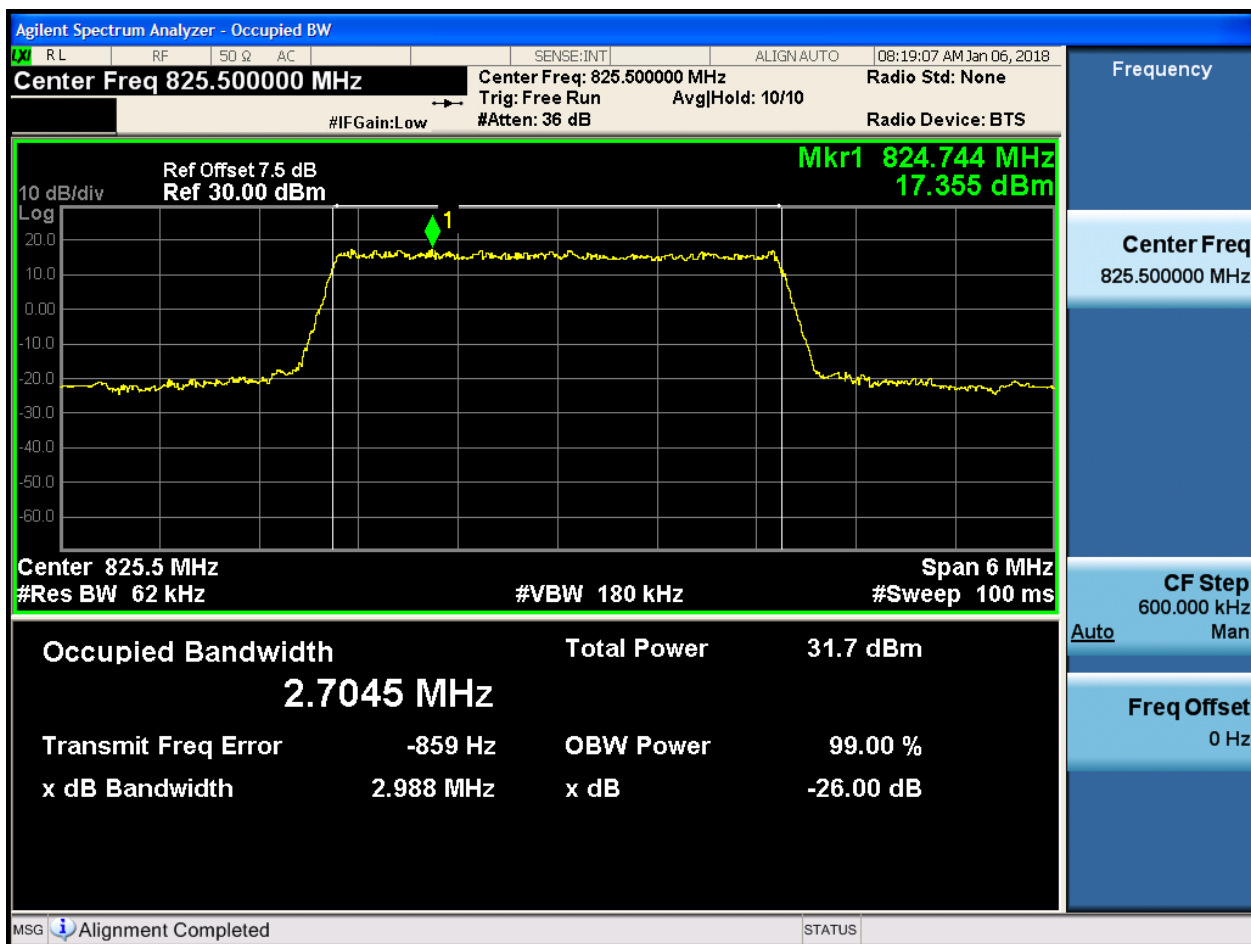




4.1.1.1.2 Test Bandwidth = 3

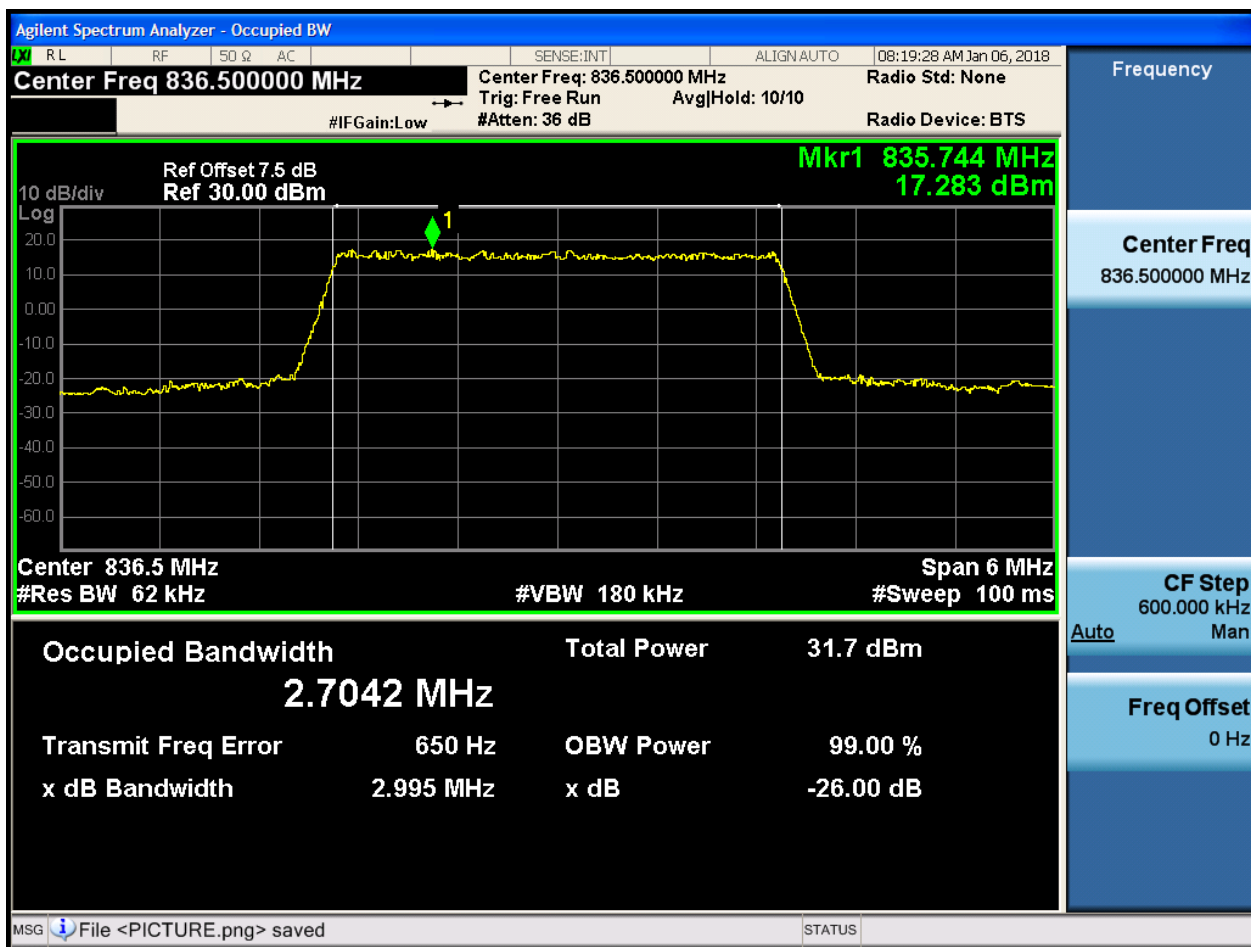
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



4.1.1.1.2.2 Test Channel = MCH

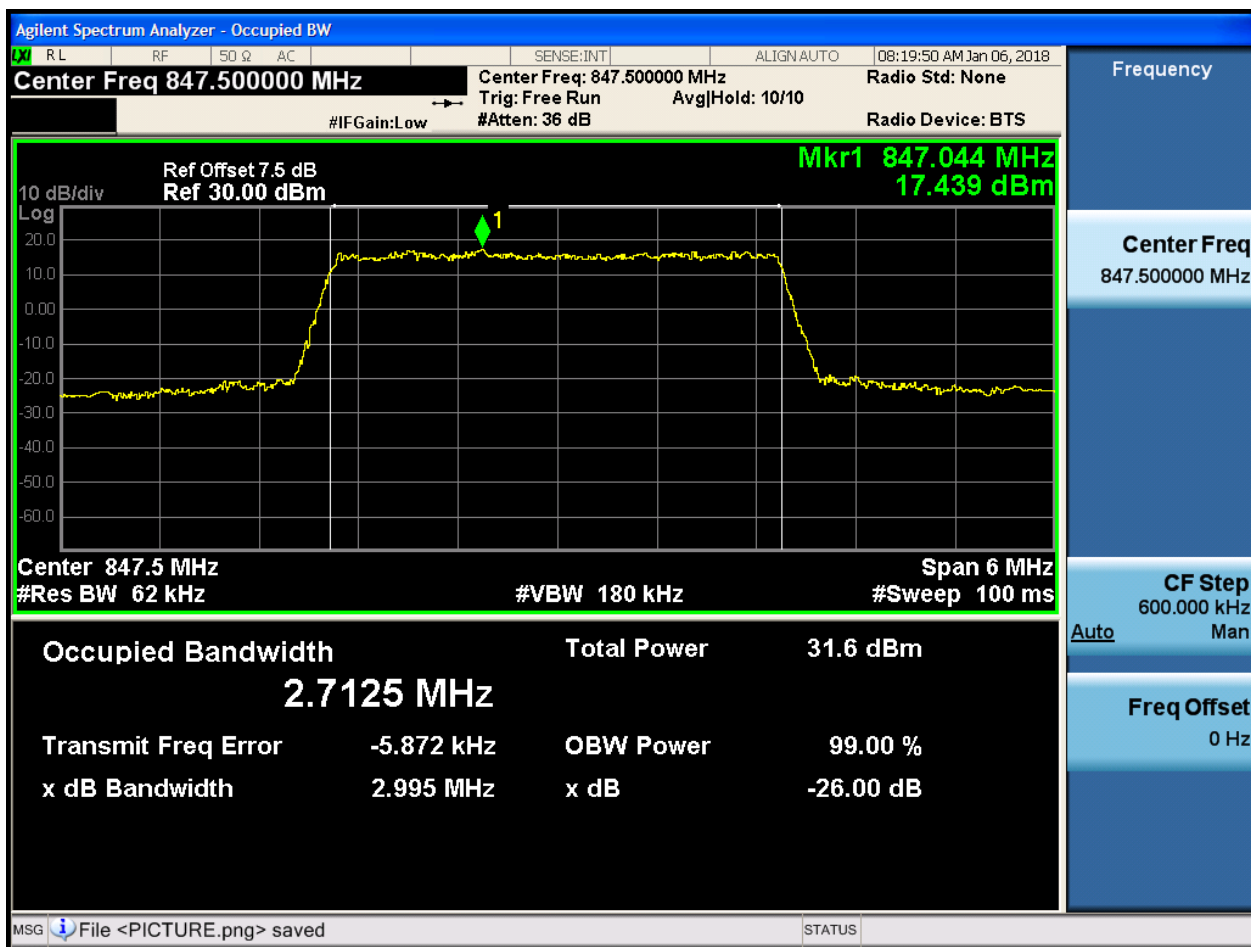
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

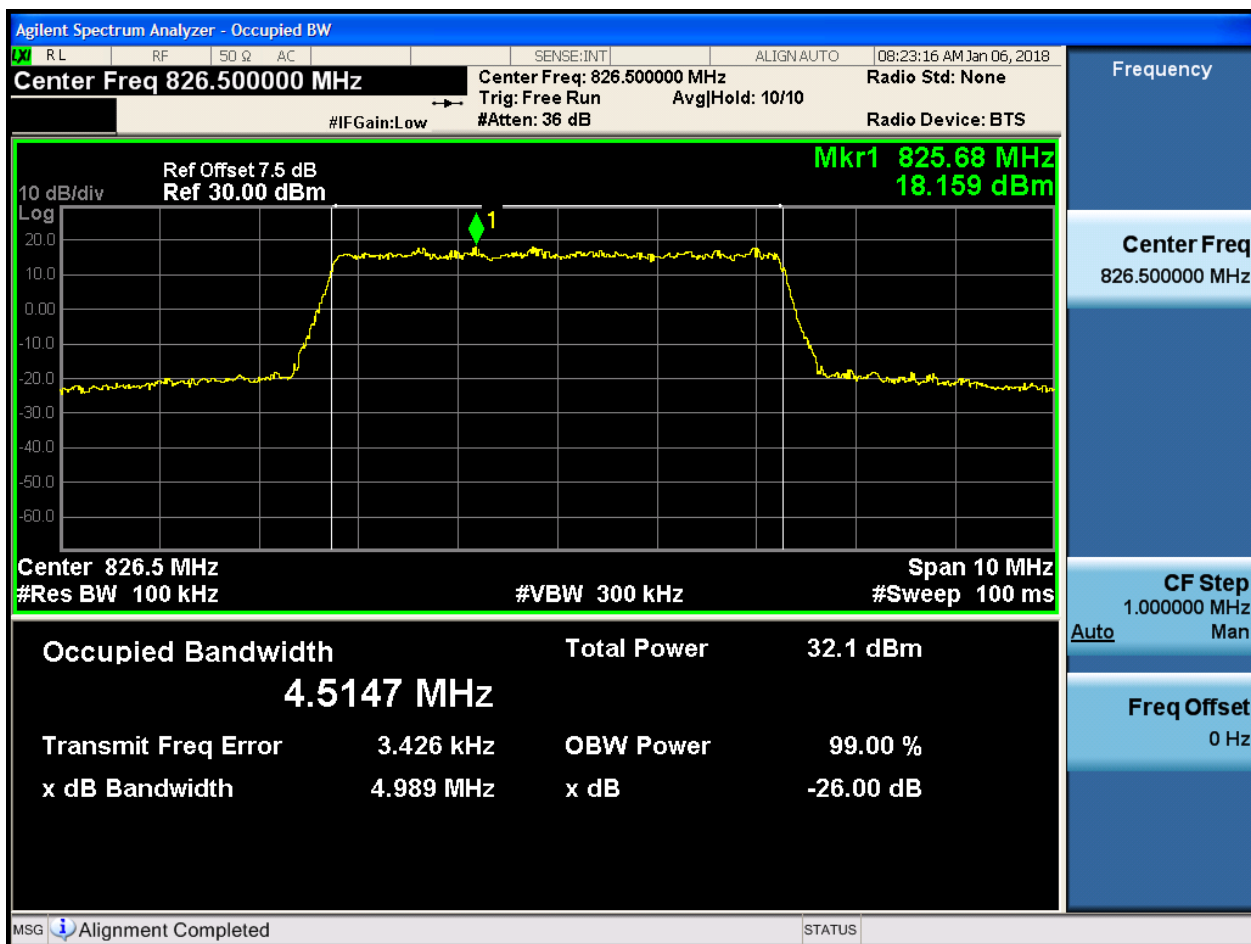




4.1.1.1.3 Test Bandwidth = 5

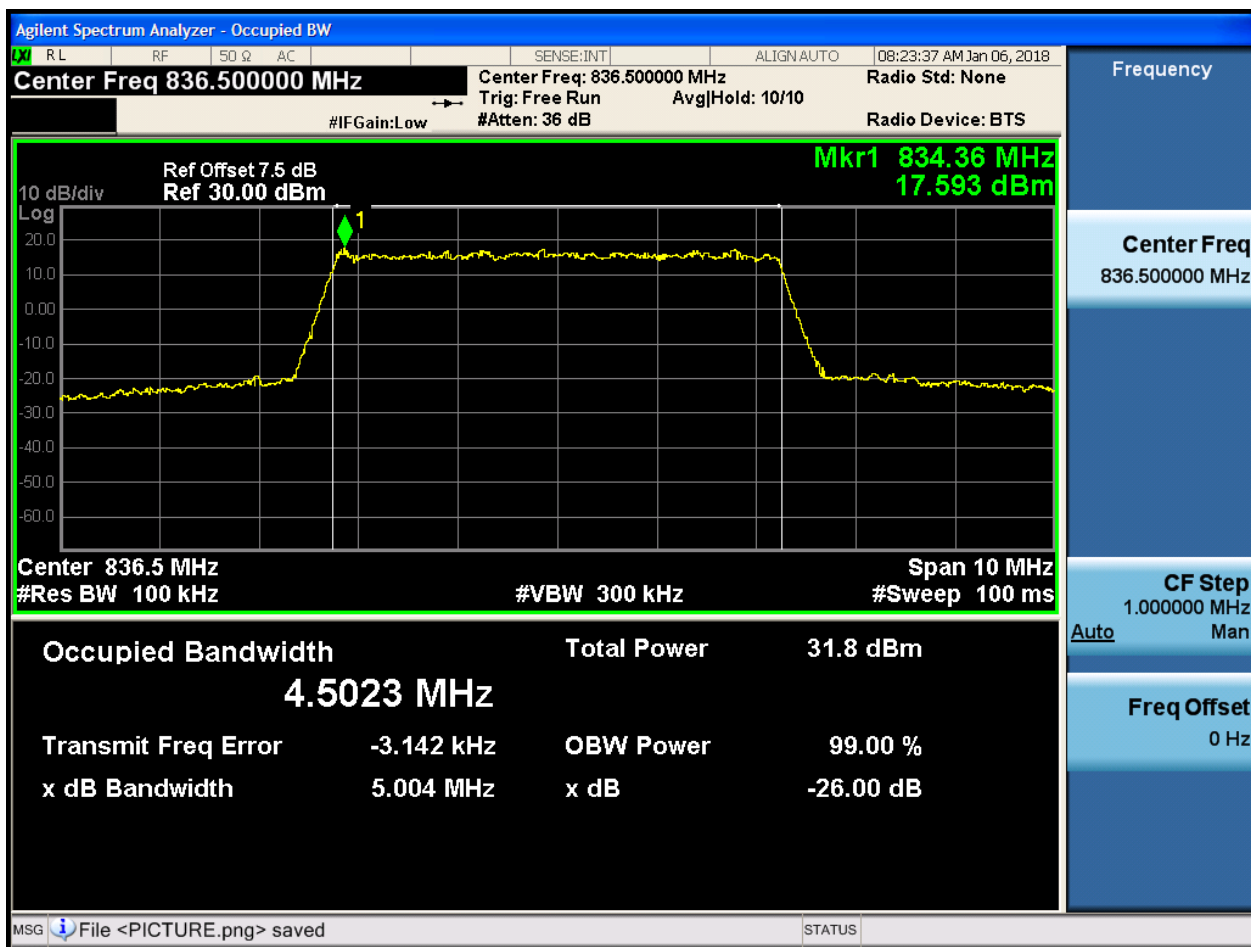
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



4.1.1.1.3.2 Test Channel = MCH

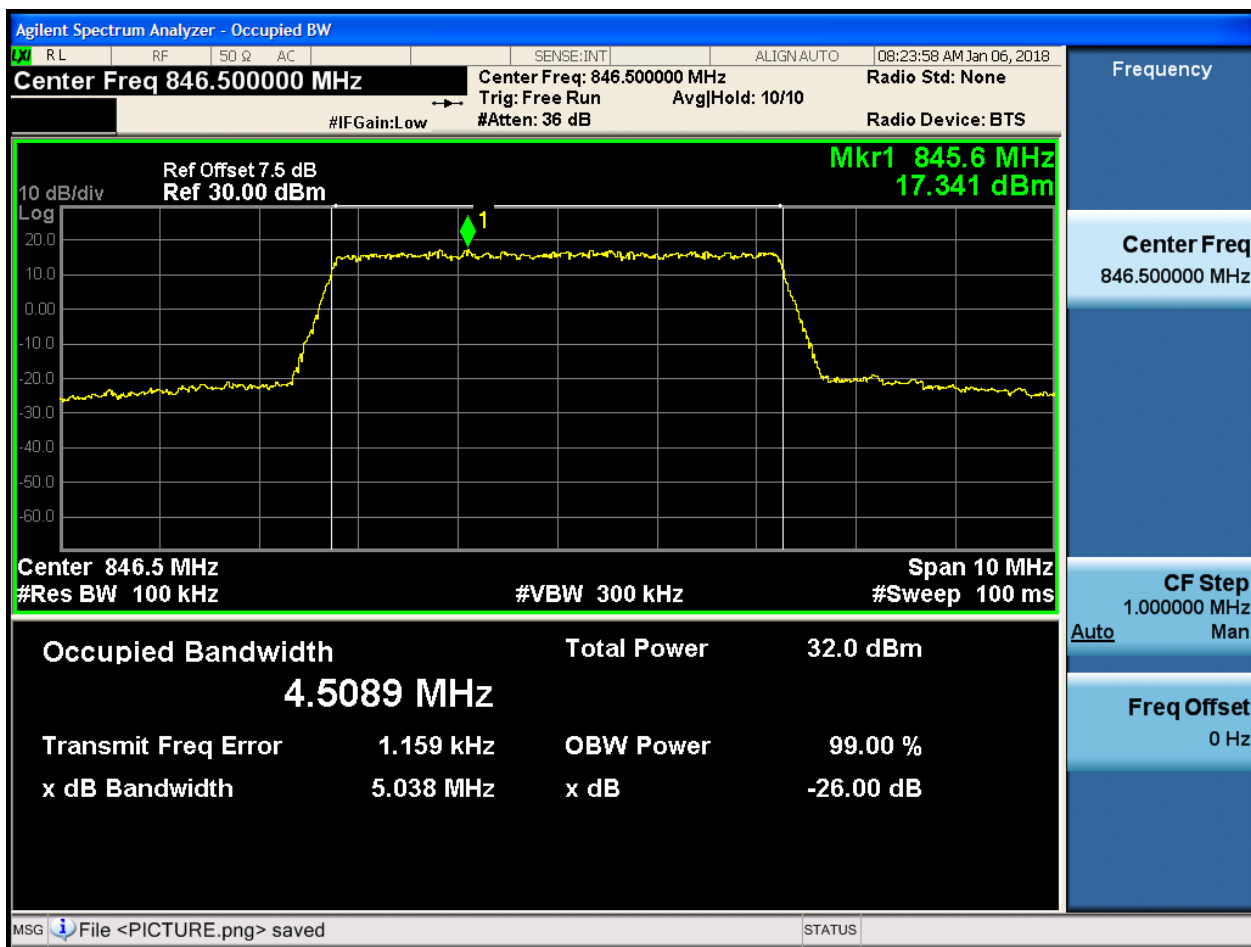
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

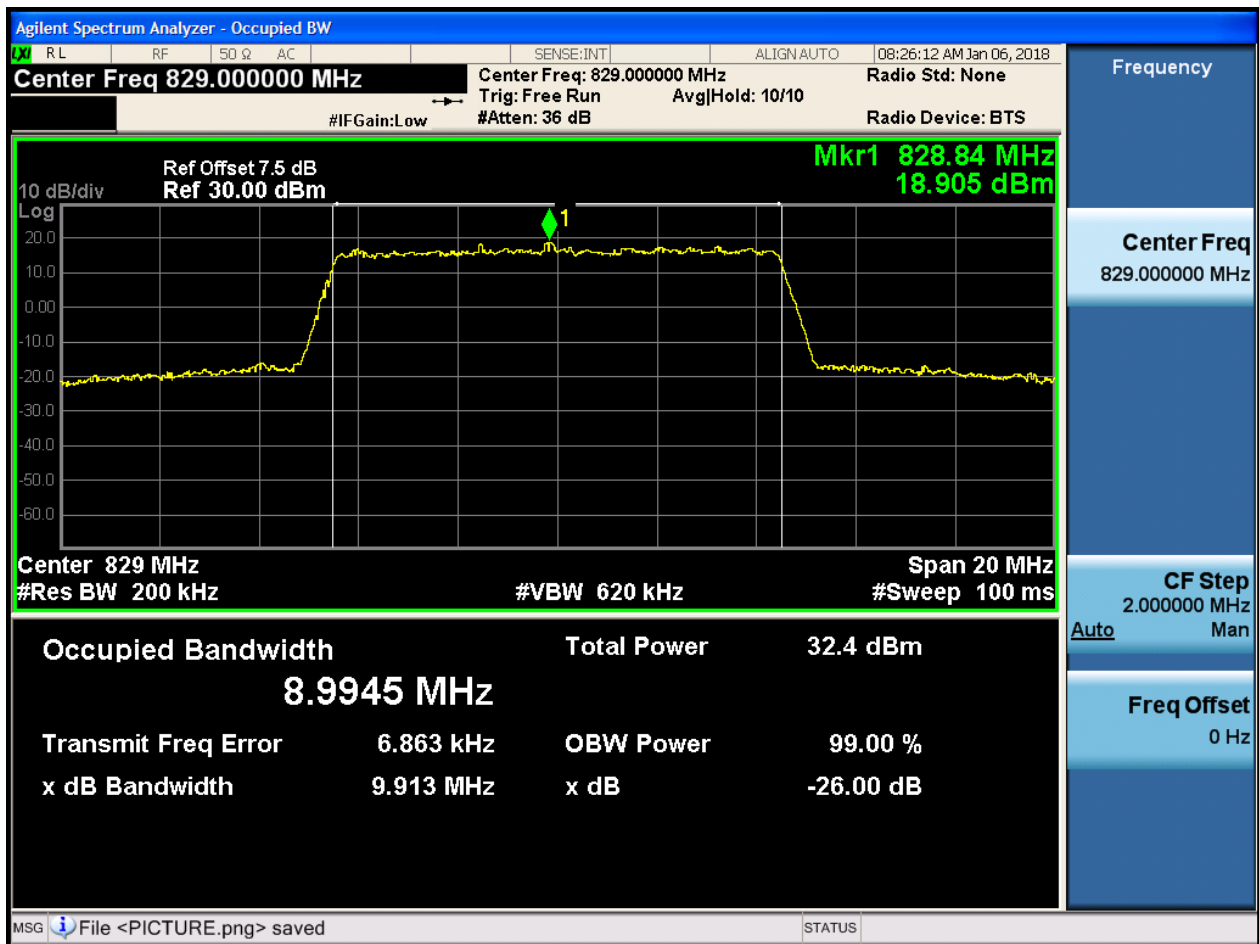




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

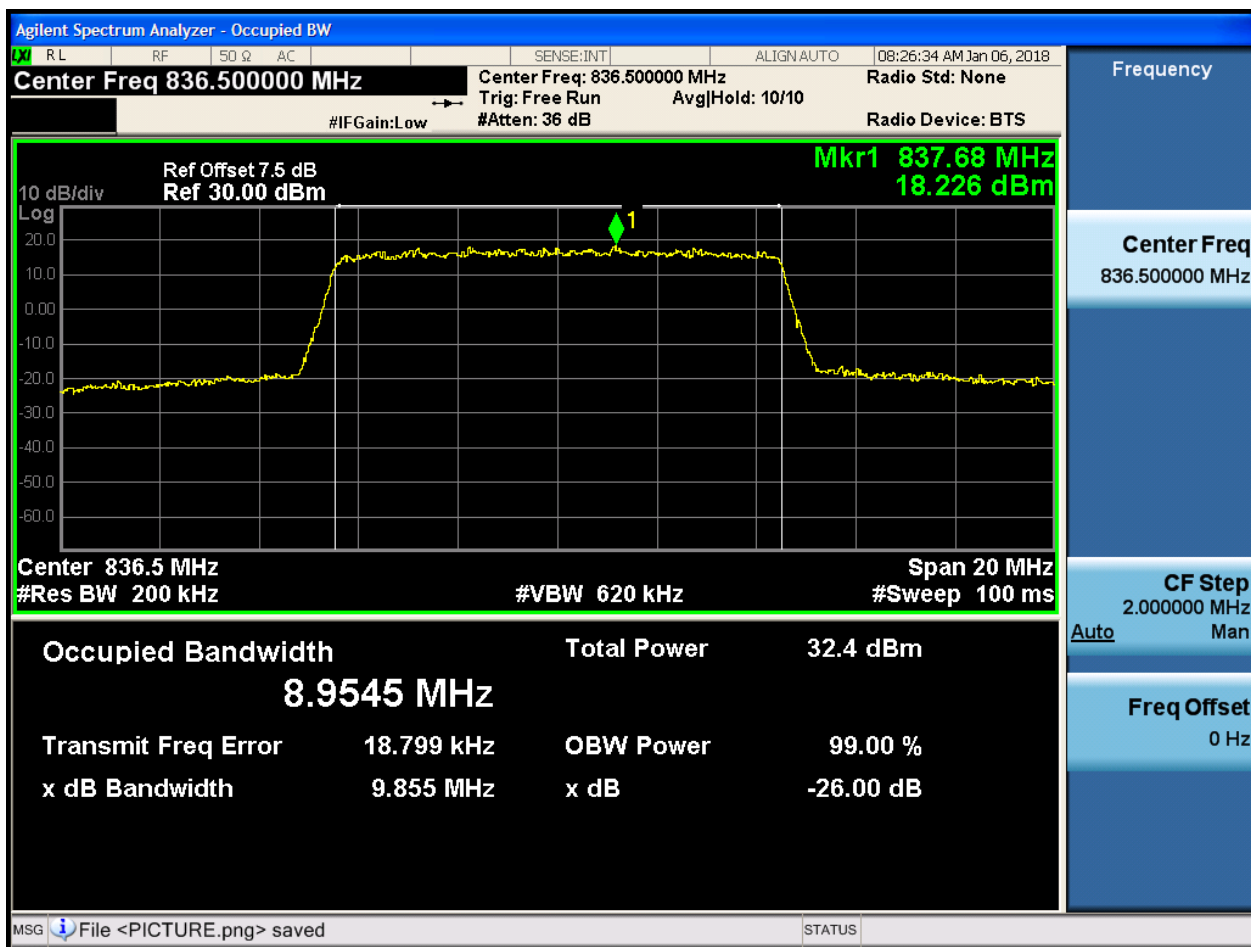
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

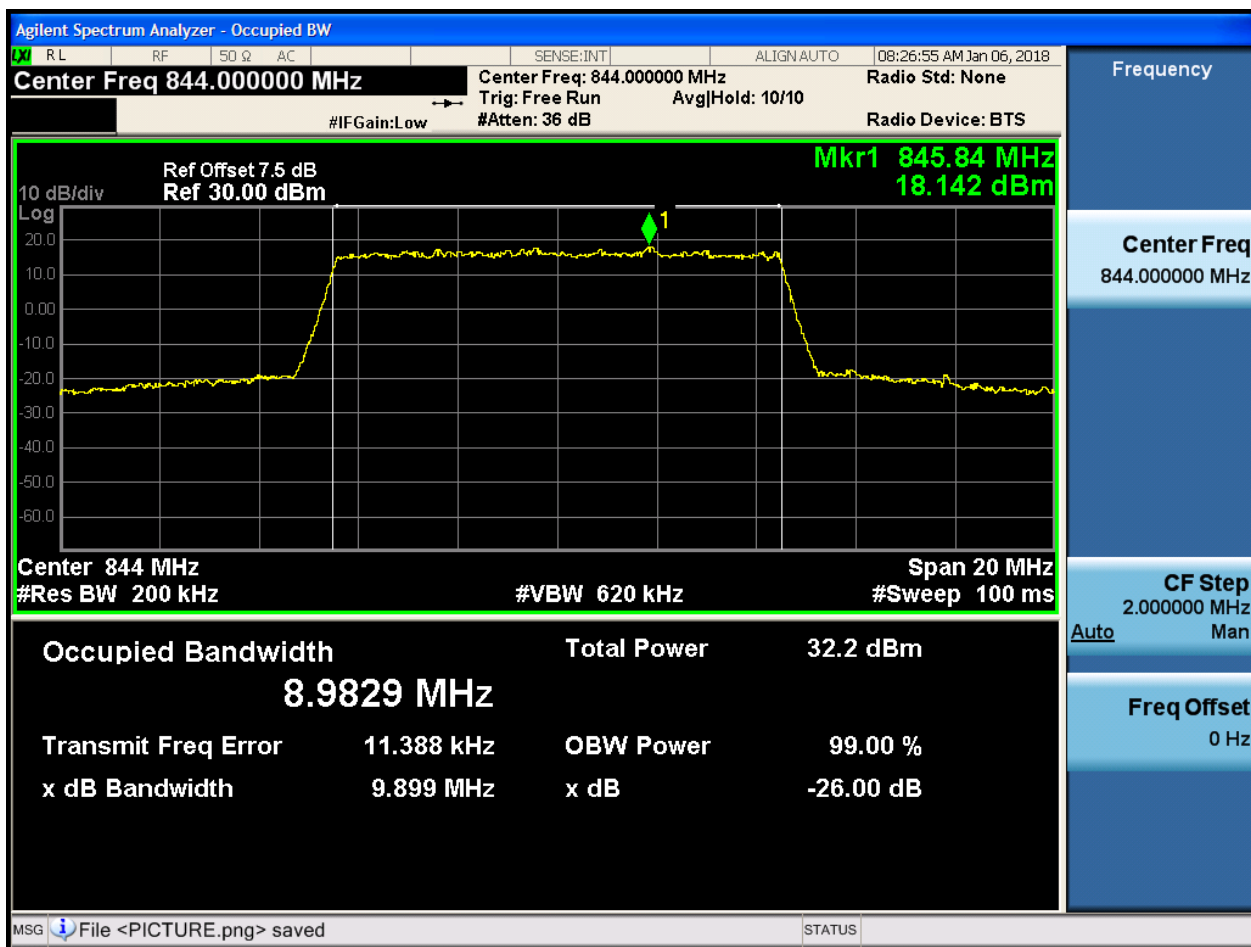
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



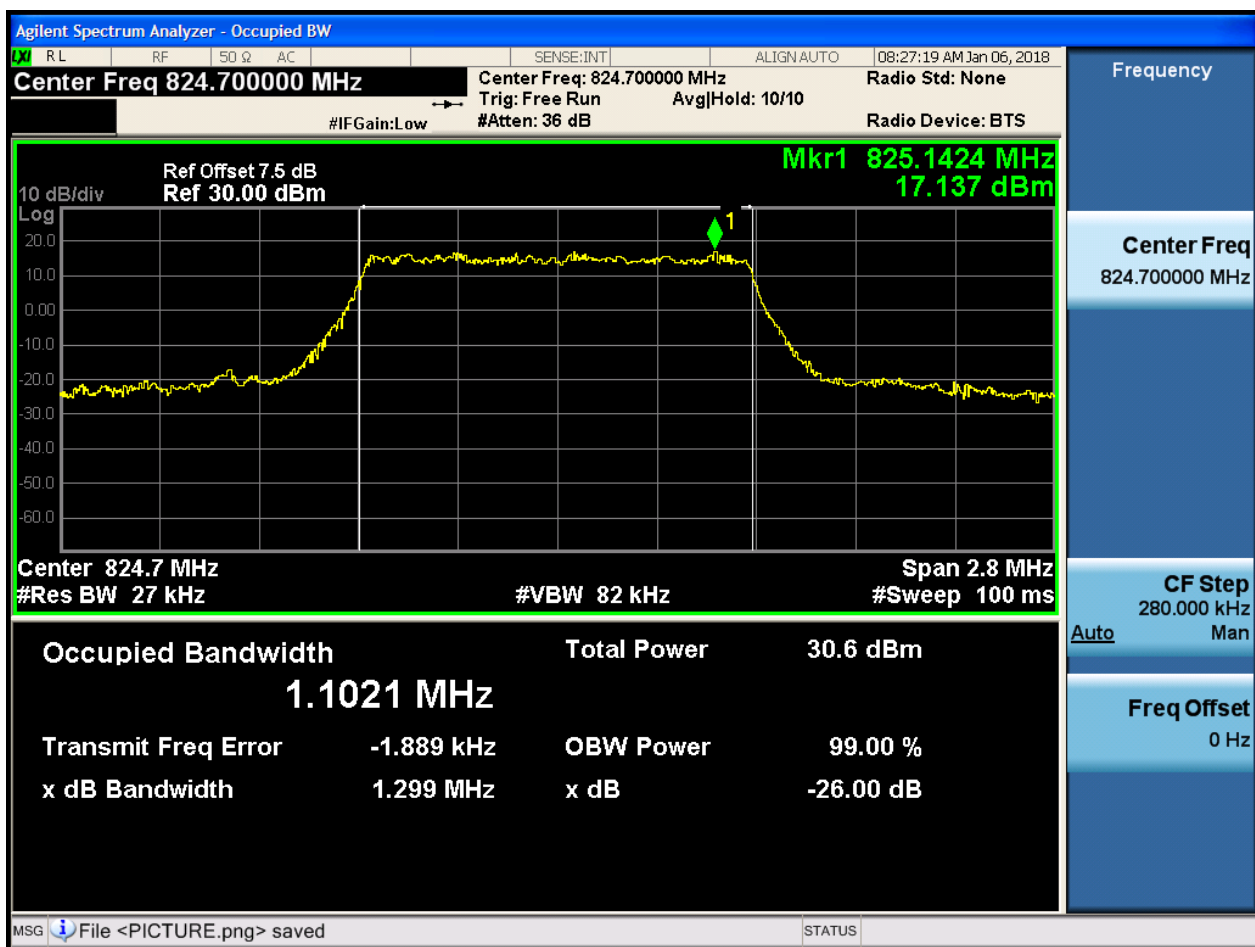


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

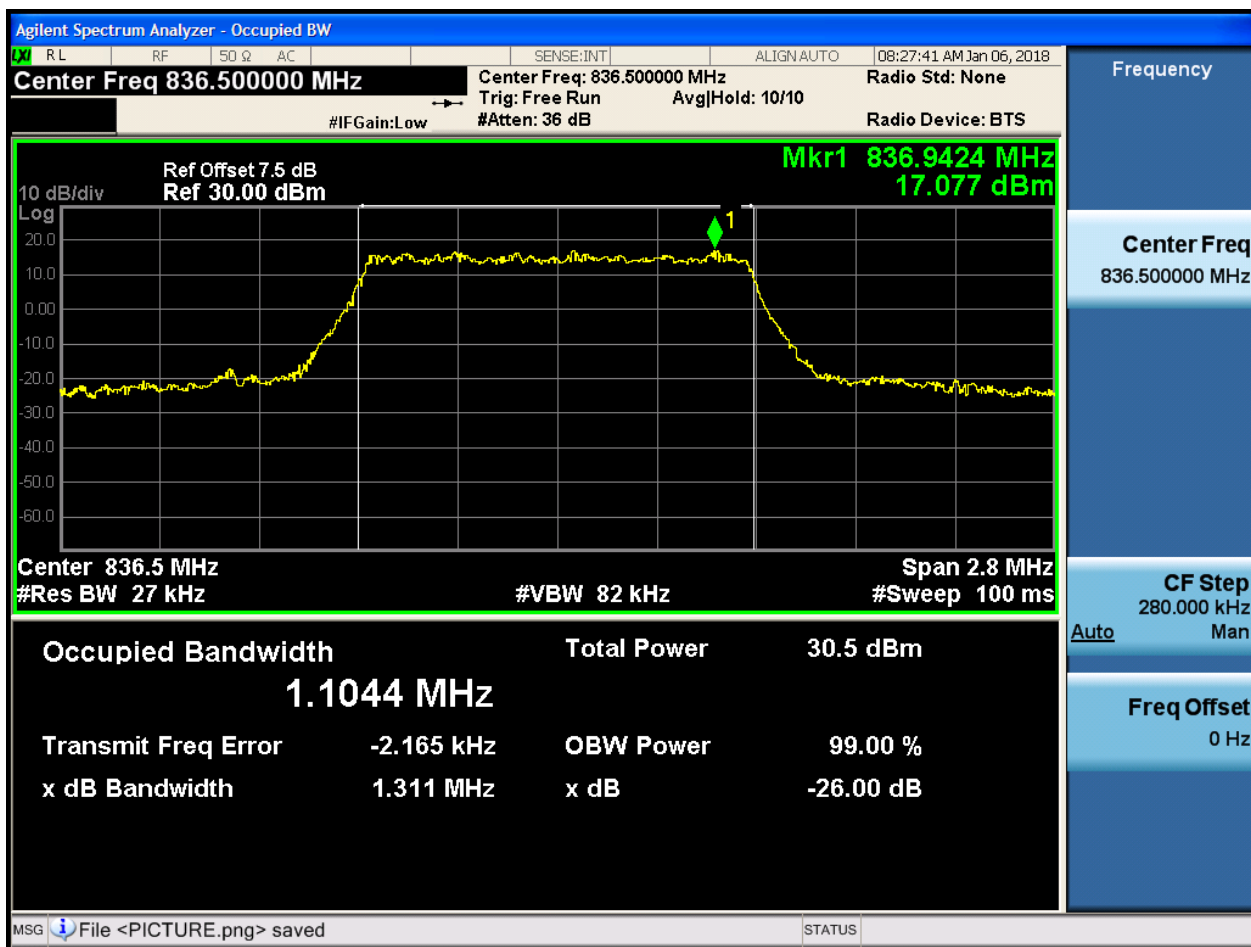
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

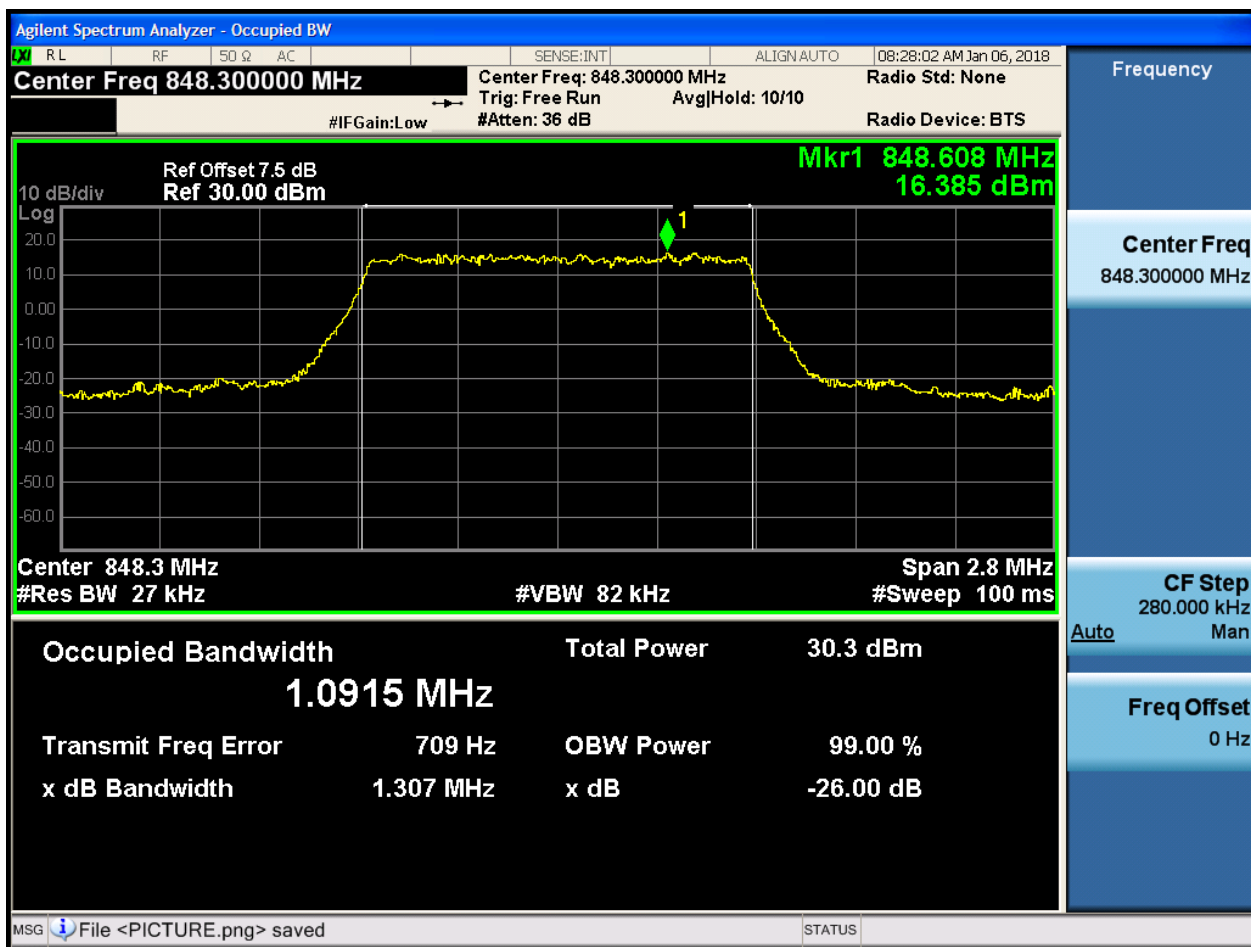
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

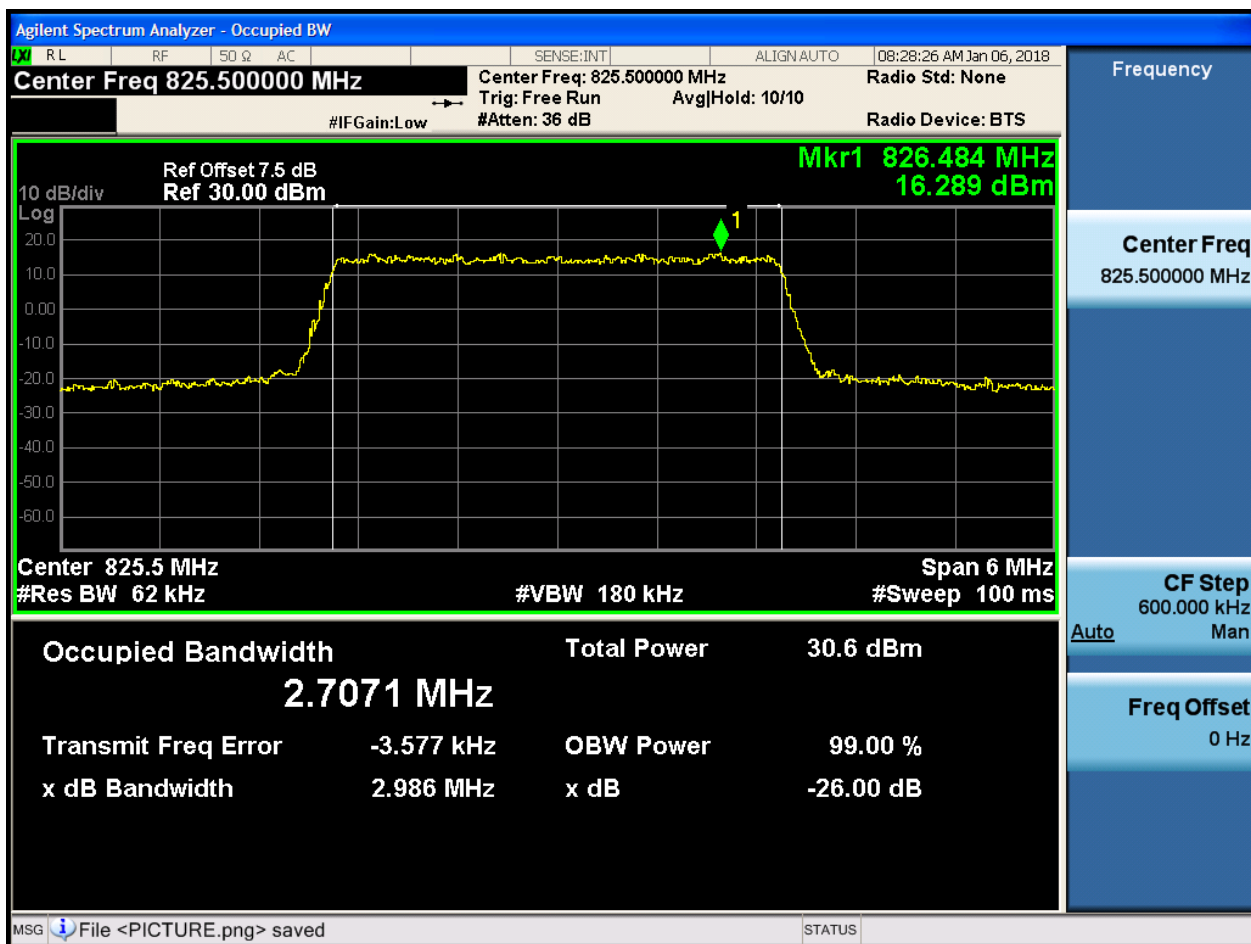




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

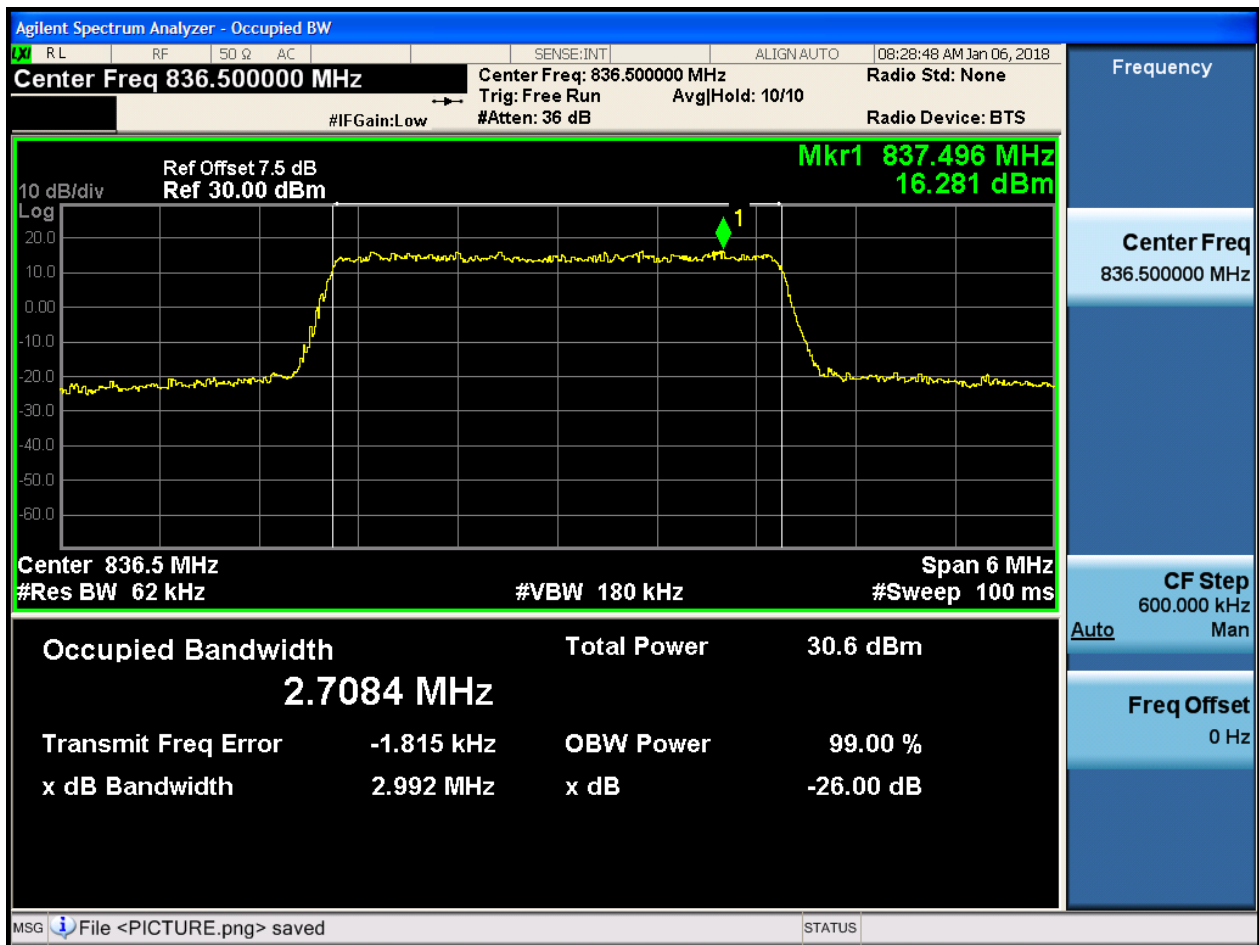
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

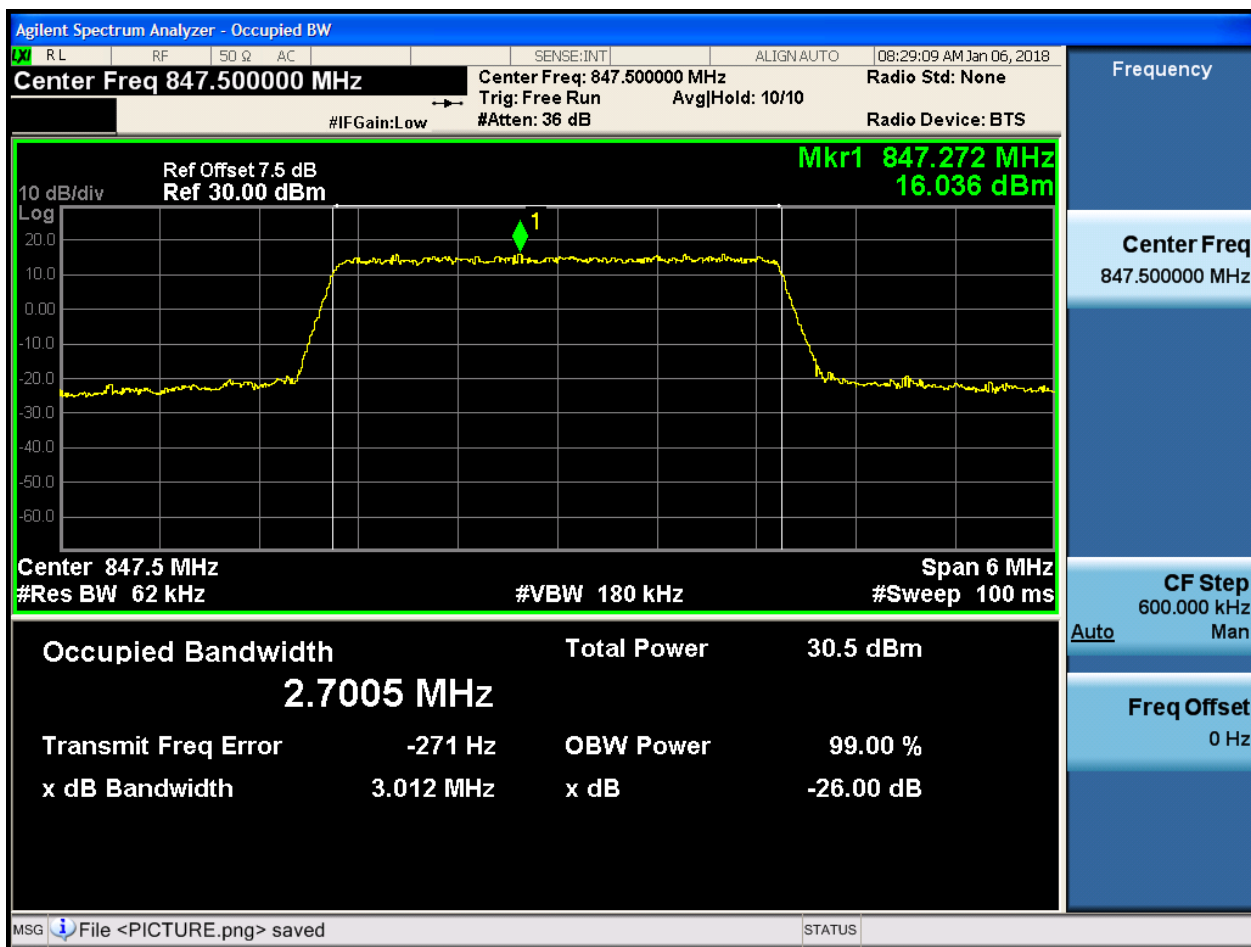
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

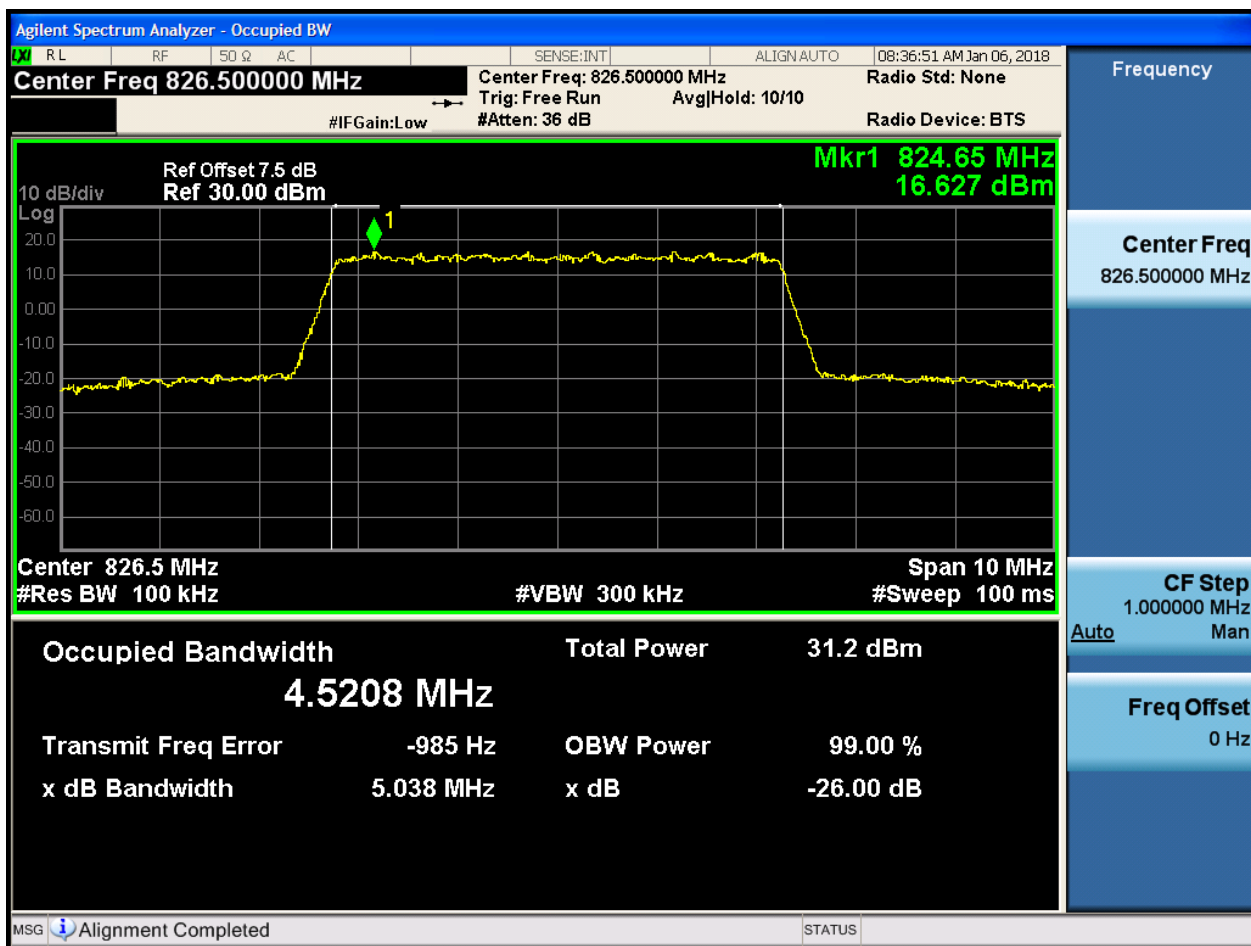




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

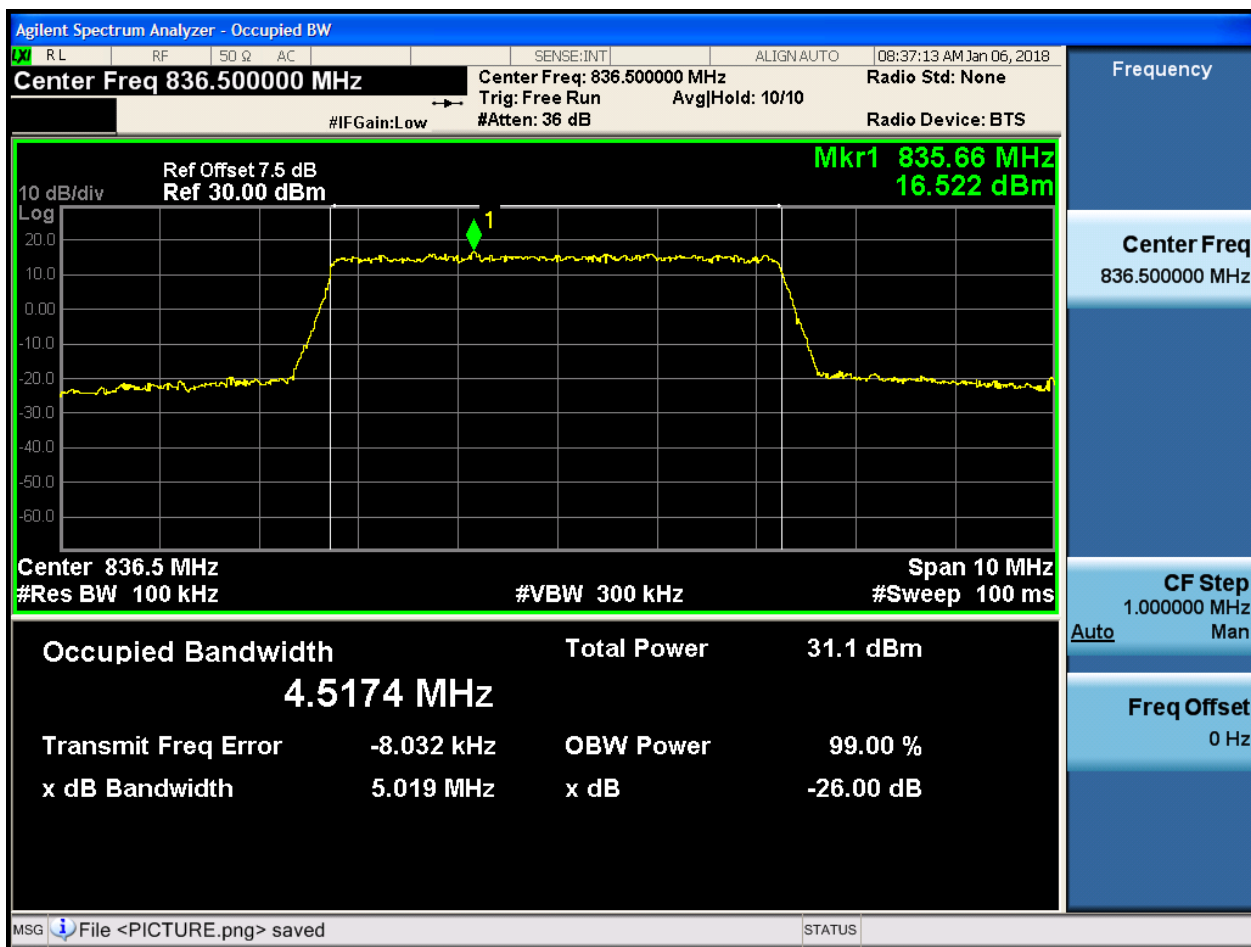
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

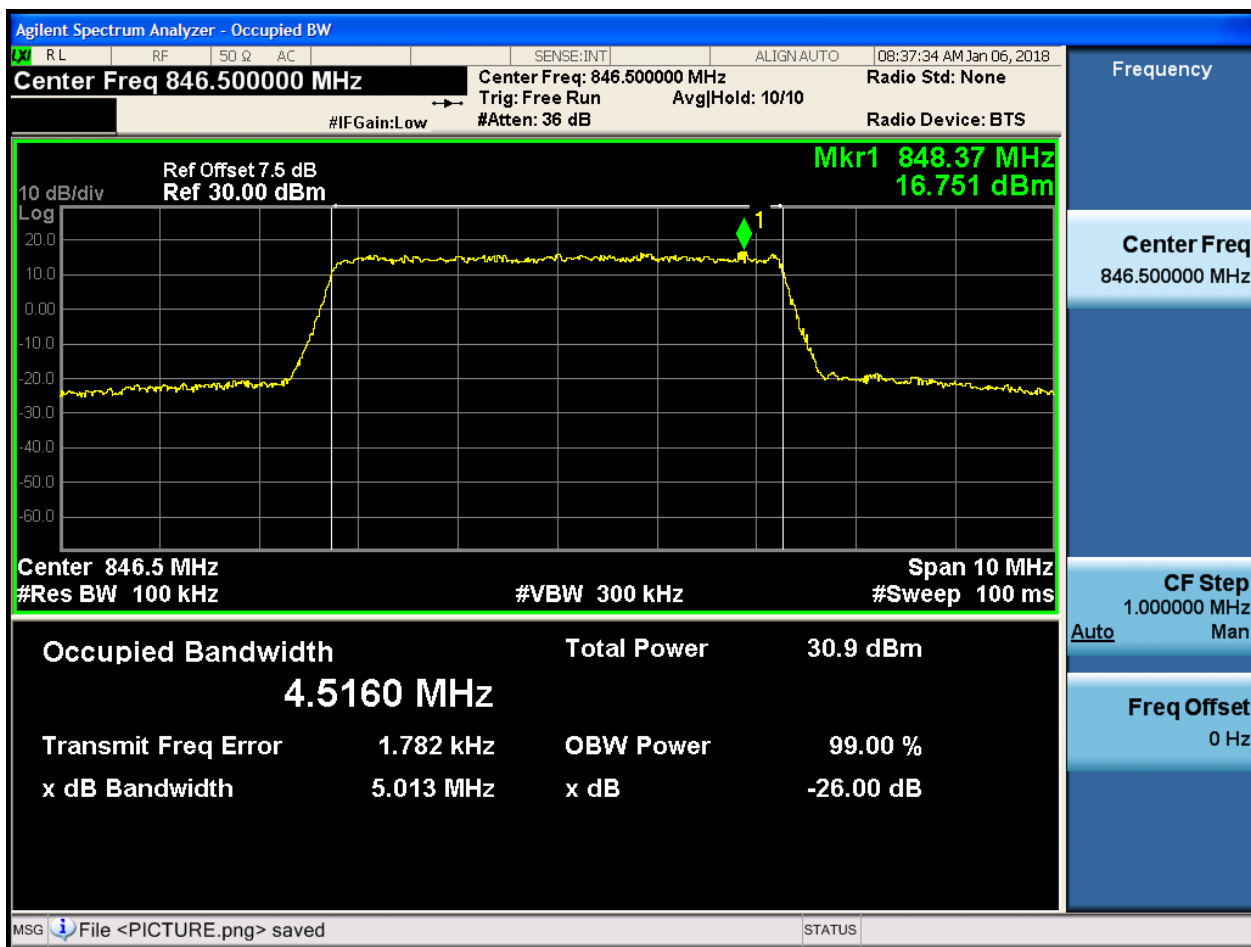
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

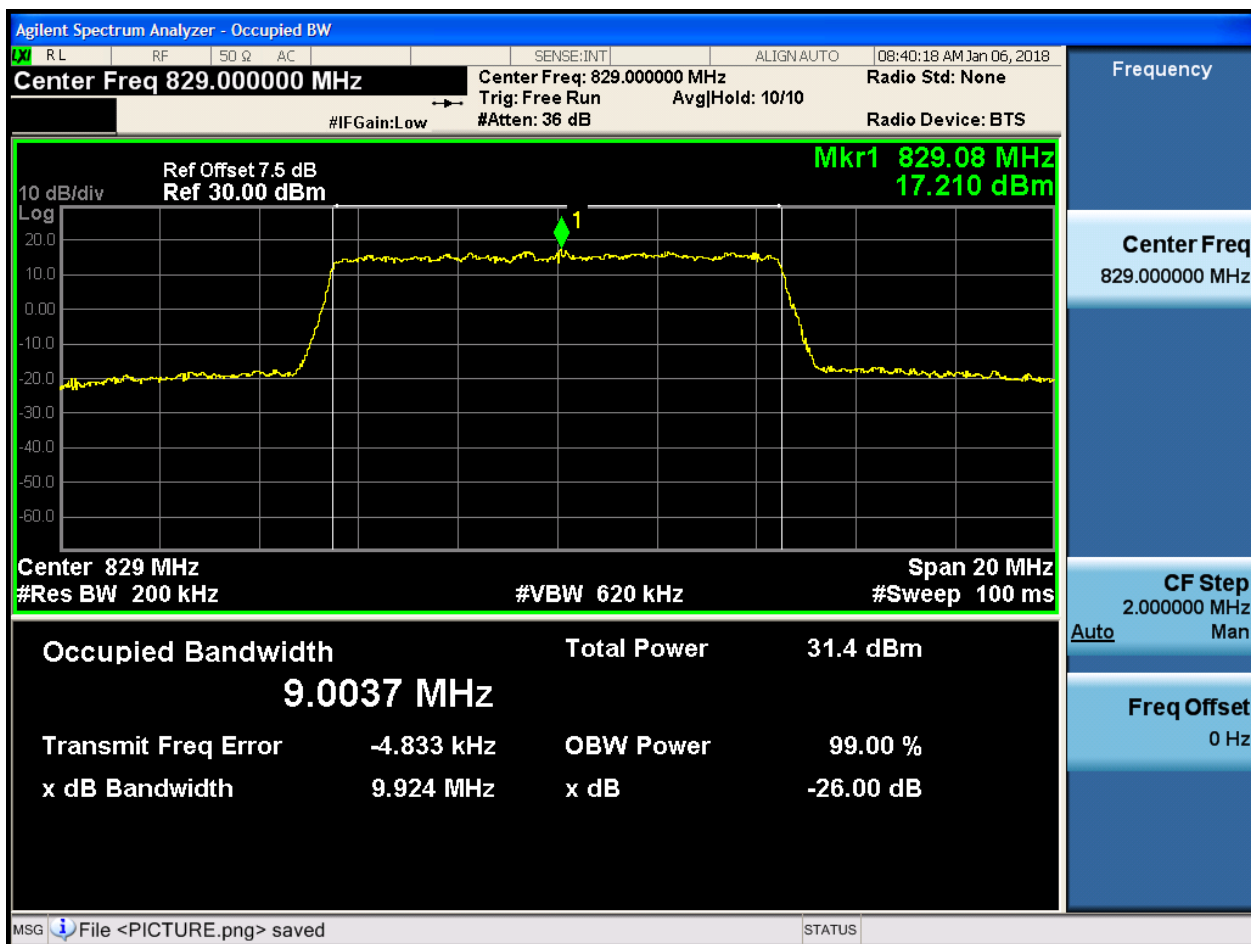




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

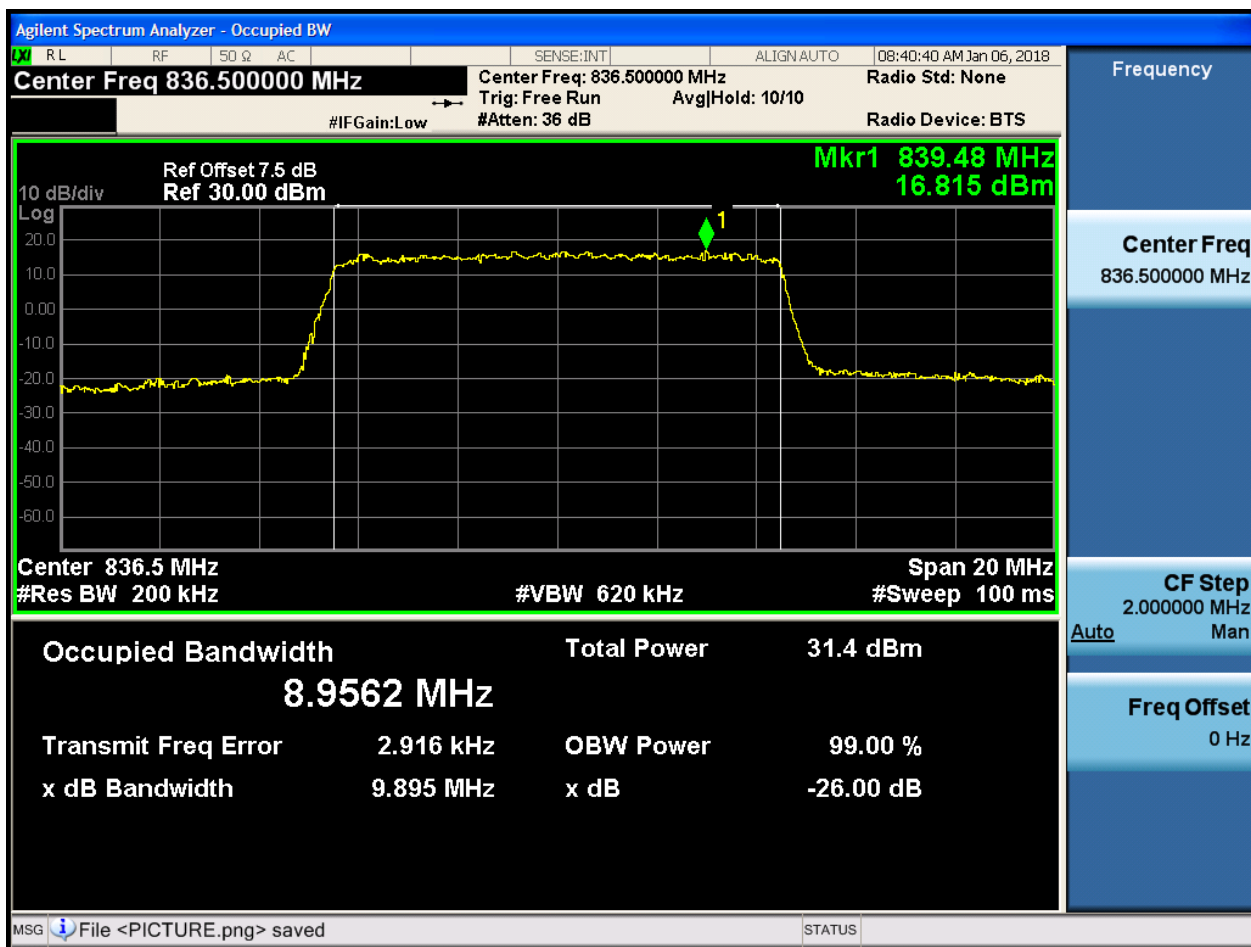
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

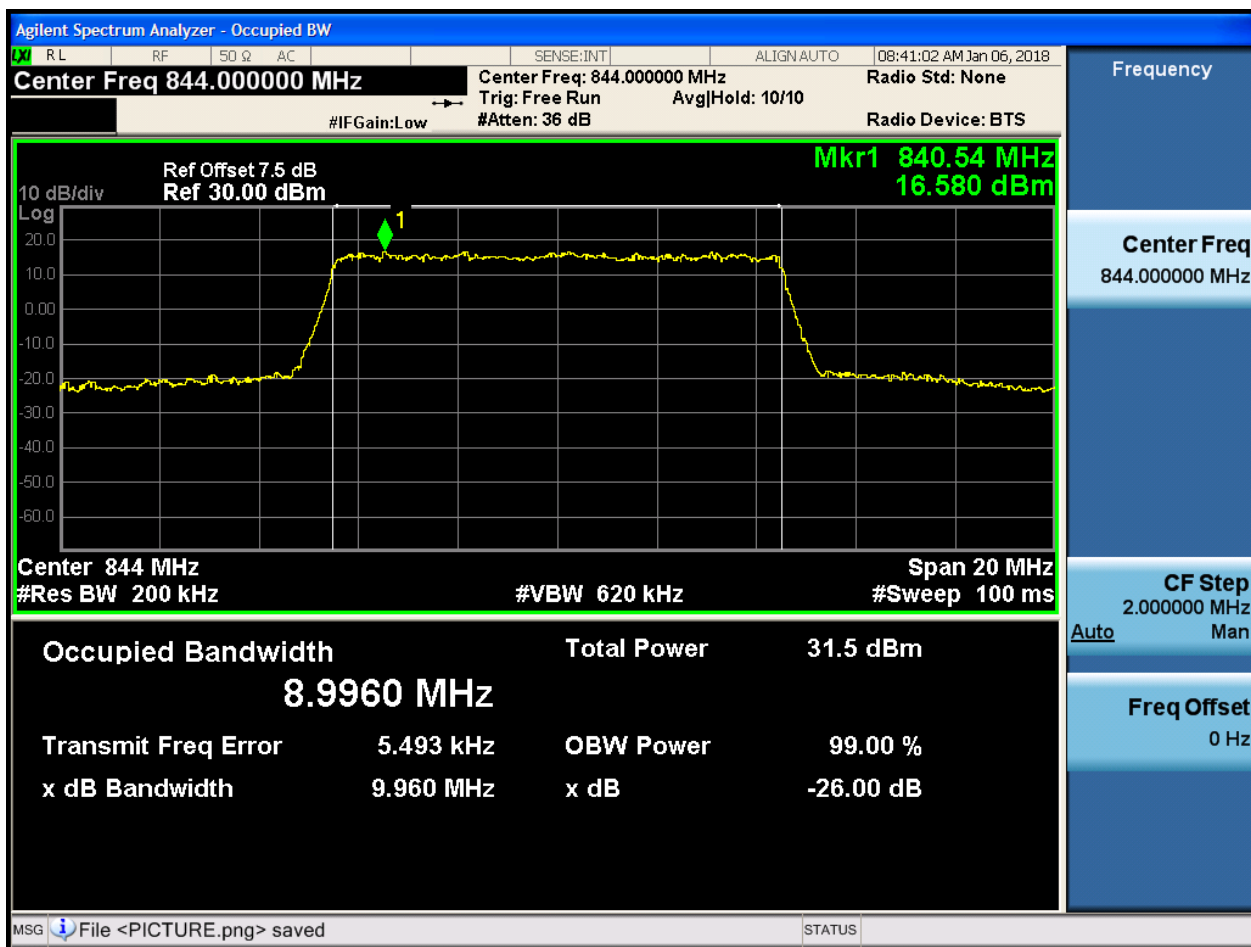
4.1.1.2.4.2.1 Test RB = RB50#0





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

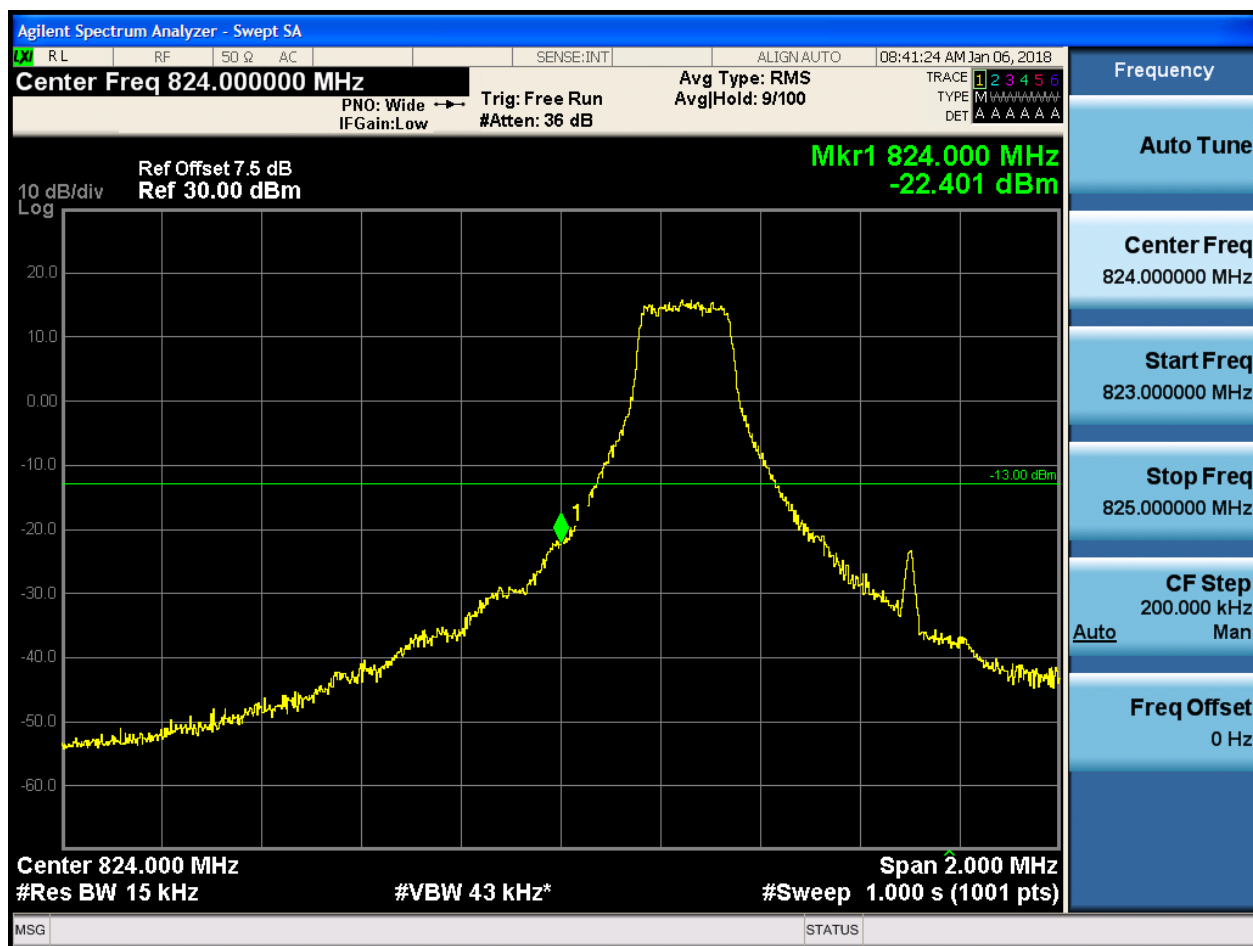
5.1.1 Test Band = BAND5

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



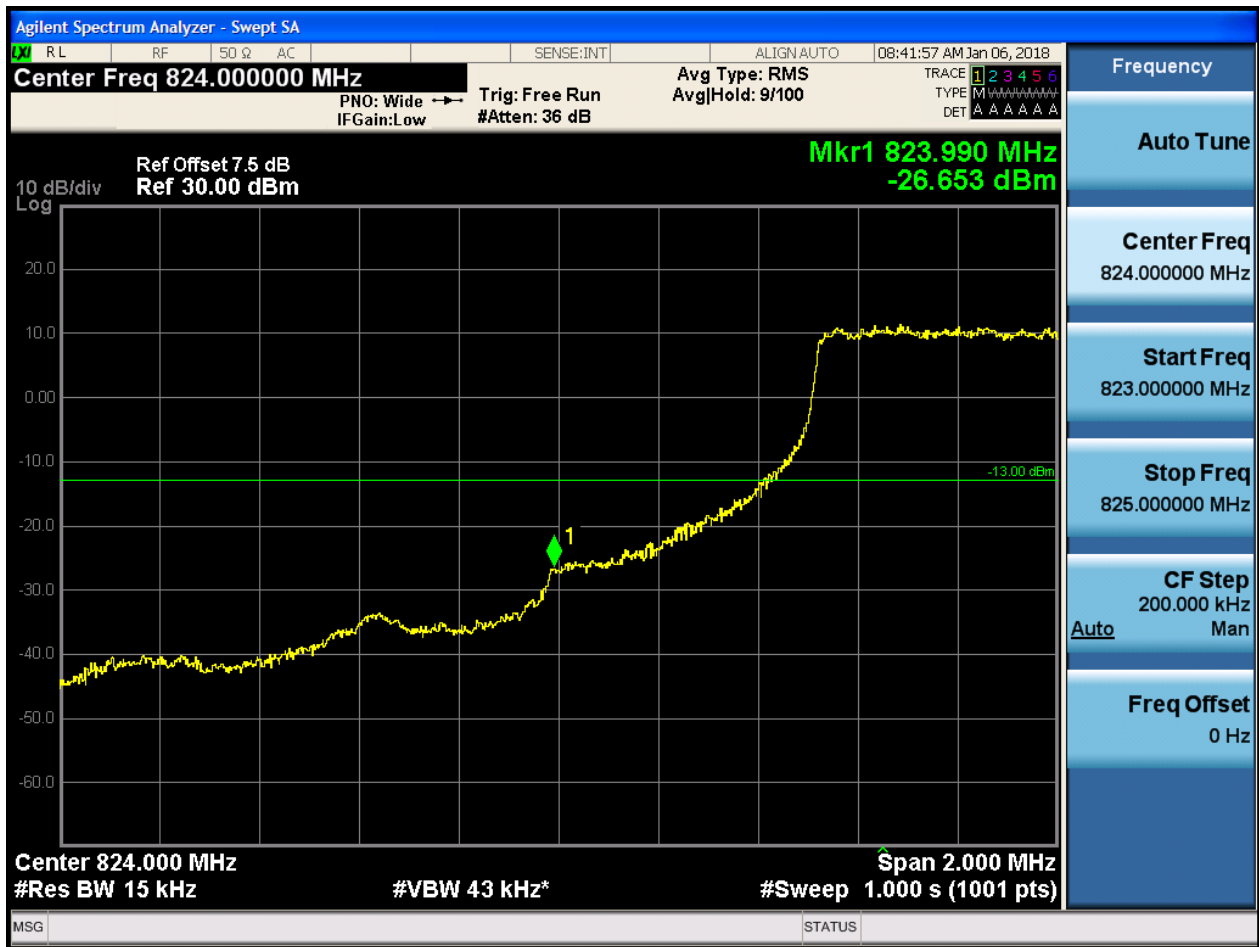


5.1.1.1.1.2 Test RB = RB1#5



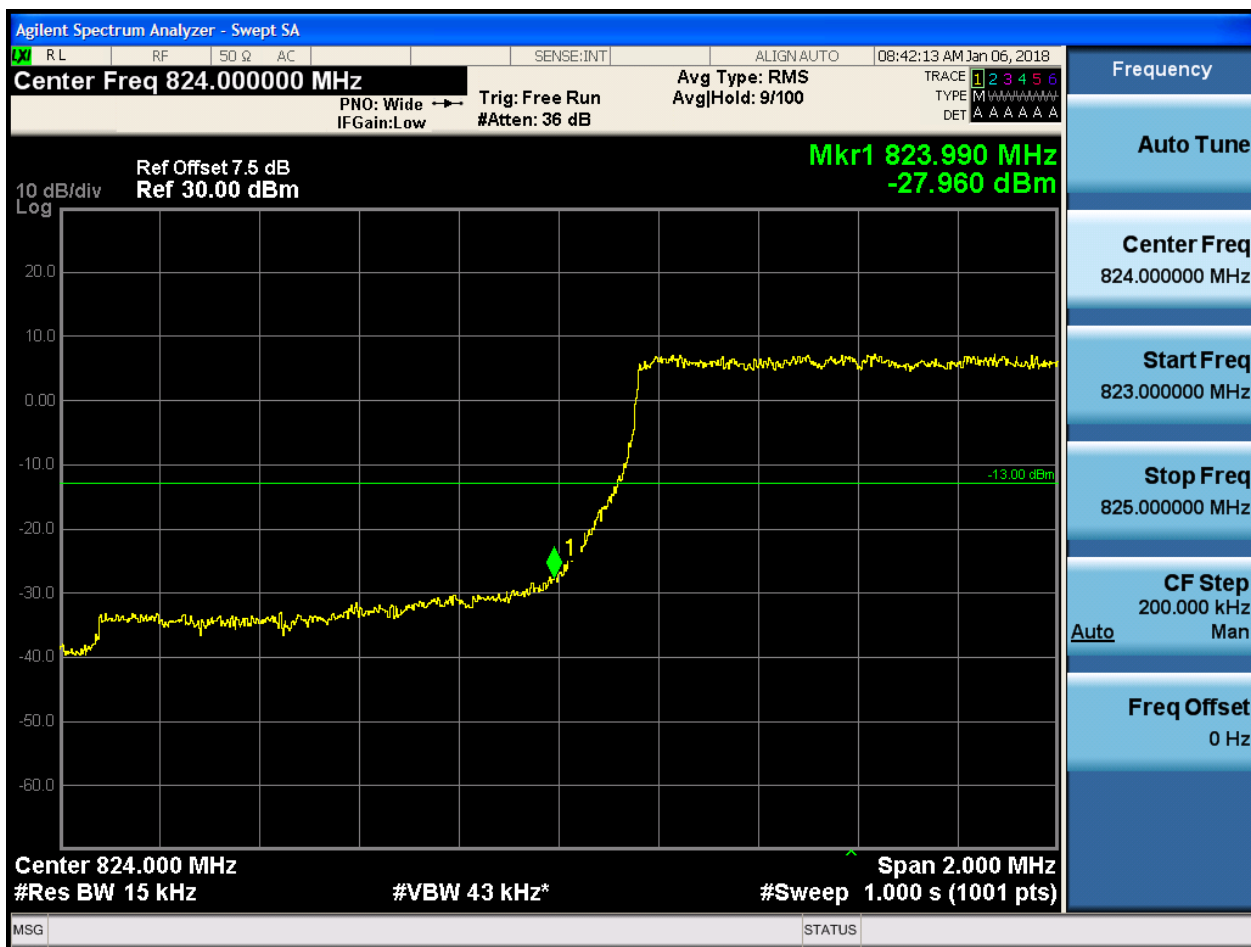


5.1.1.1.1.3 Test RB = RB3#2





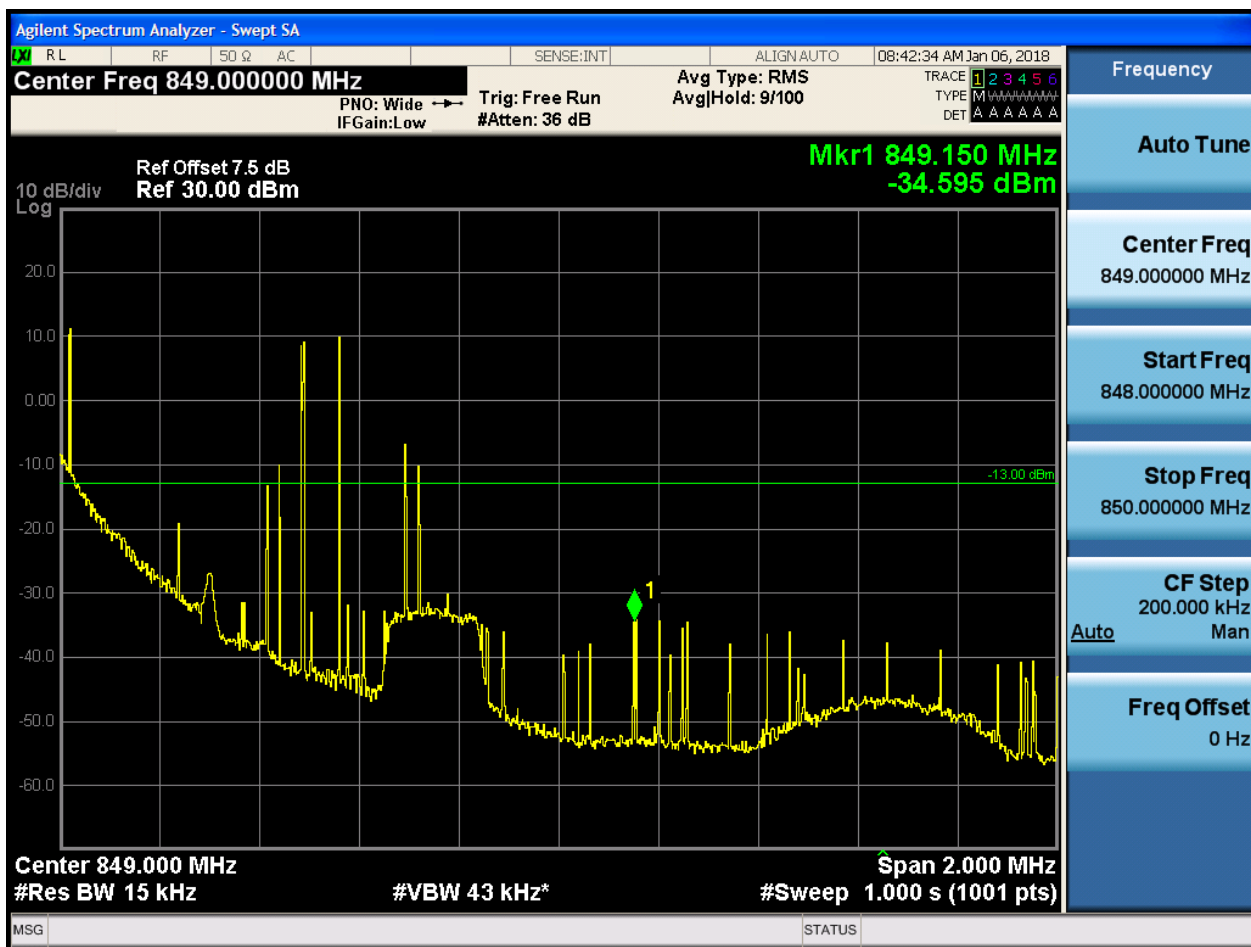
5.1.1.1.1.4 Test RB = RB6#0





5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 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 7.5 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-22.011 dBm

10 dB/div
Log

-13.00 dBm

Center 849.000 MHz
#Res BW 15 kHz

#VBW 43 kHz*

Span 2.000 MHz
#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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 08:43:06 AM Jan 06, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide Trig: Free Run Avg|Hold: 9/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-25.189 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

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

5.1.1.1.1.2.4 Test RB = RB6#0







Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:44:02 AM Jan 06, 2018

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

10 dB/div Log Ref Offset 7.5 dB Ref 30.00 dBm

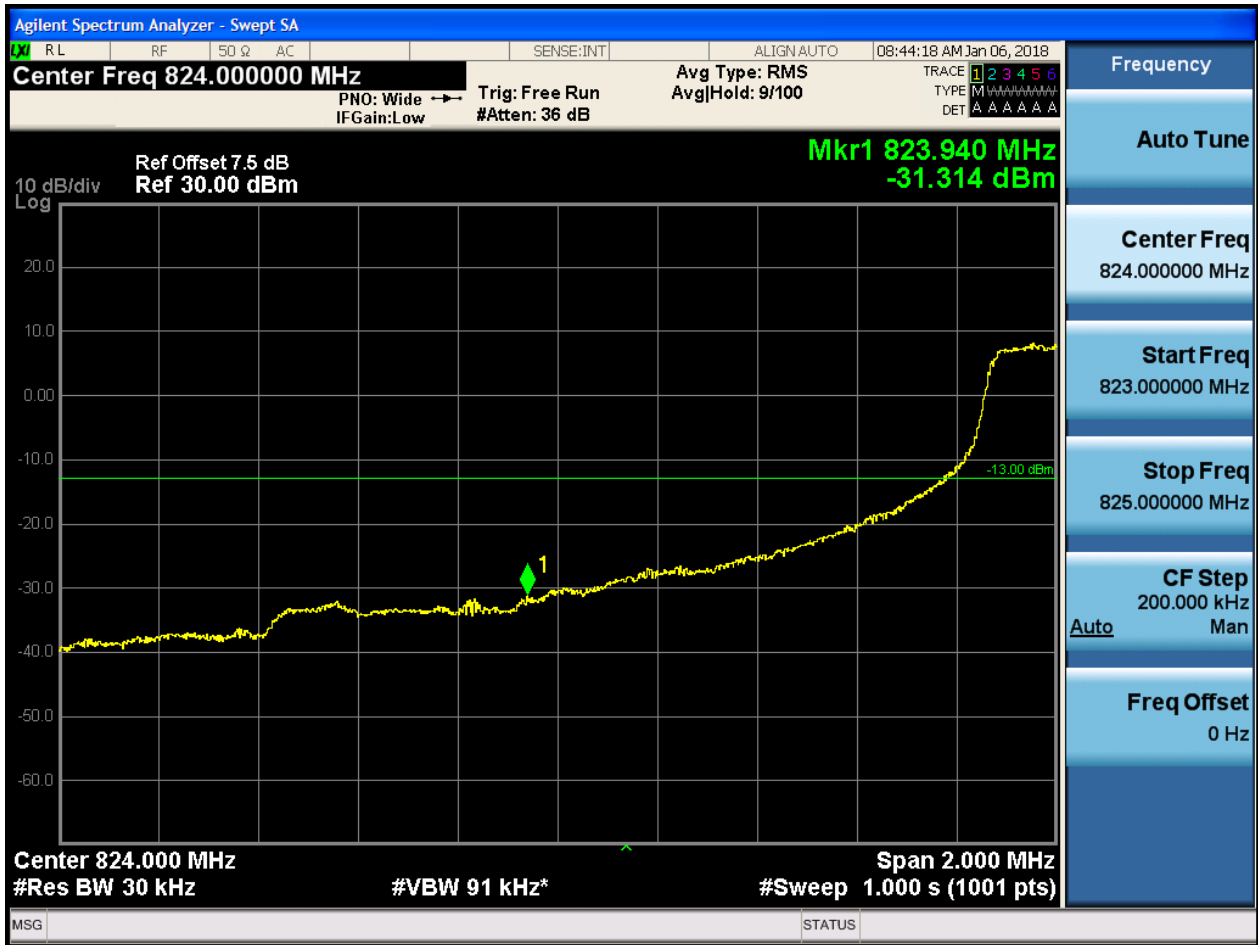
Mkr1 823.010 MHz -43.715 dBm

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

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

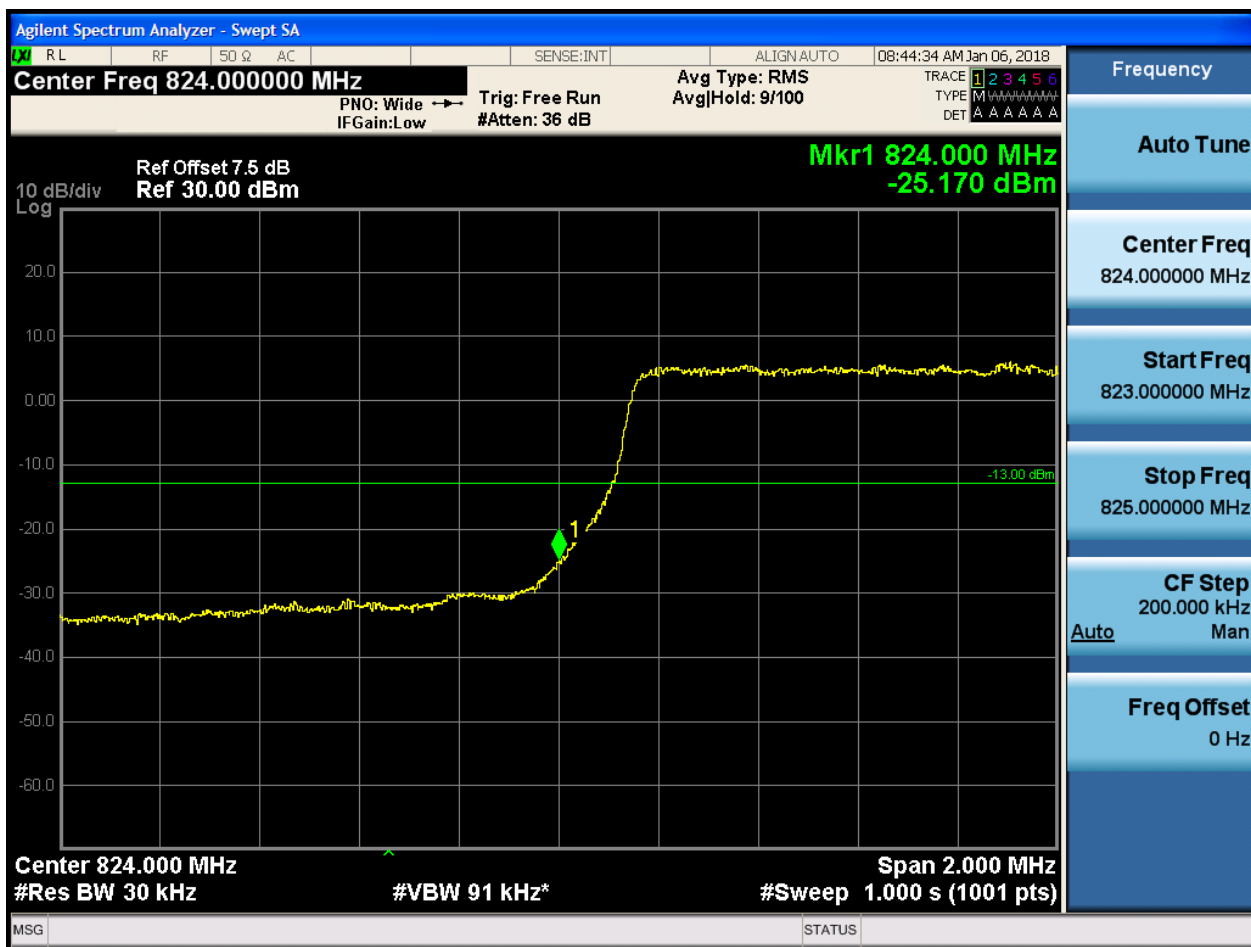
MSG STATUS

5.1.1.1.2.1.3 Test RB = RB8#4



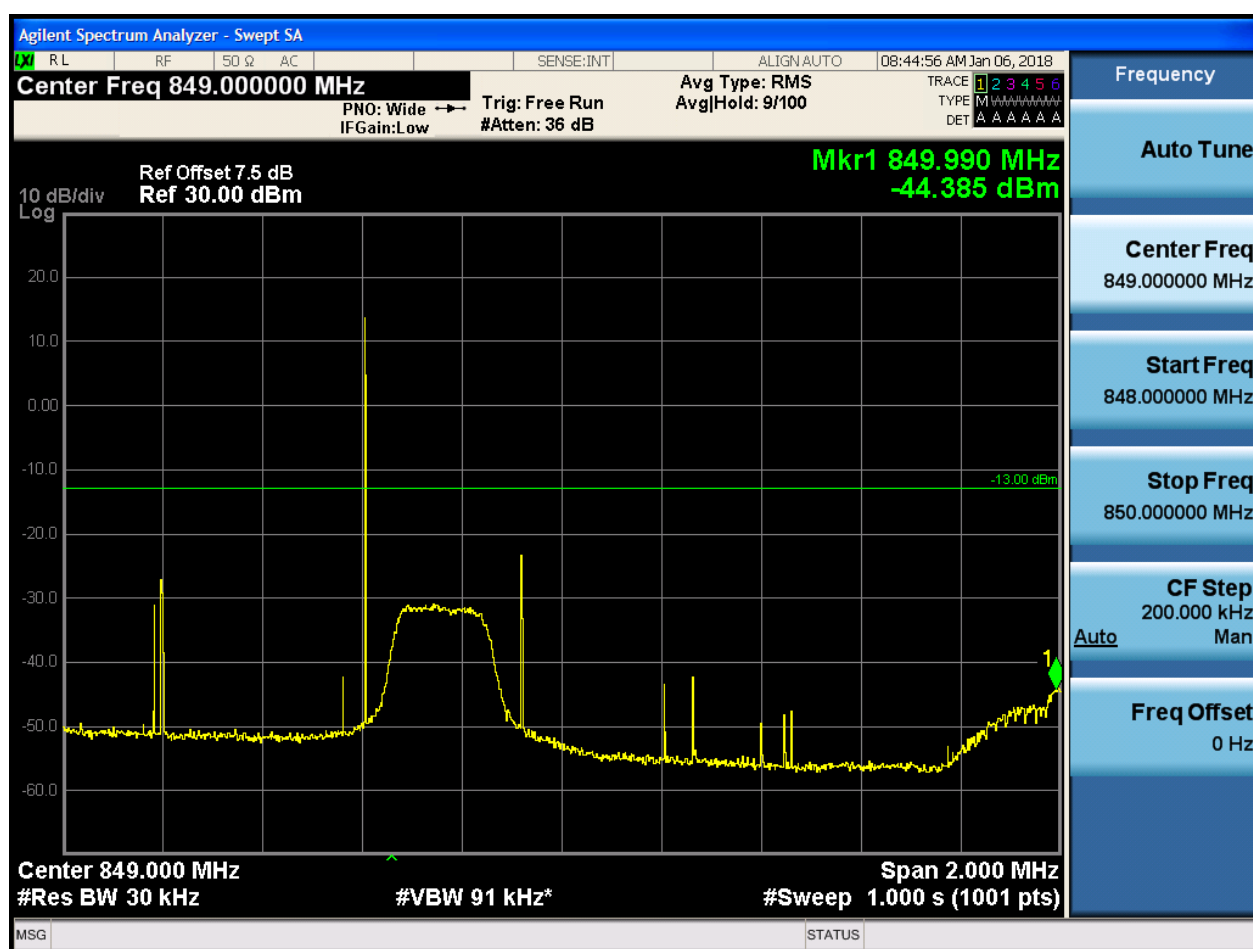


5.1.1.1.2.1.4 Test RB = RB15#0



5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-18.349 dBm

Center 849.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*

Span 2.000 MHz
#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
Auto

Freq Offset
0 Hz

MSG

STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:45:27 AM Jan 06, 2018

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

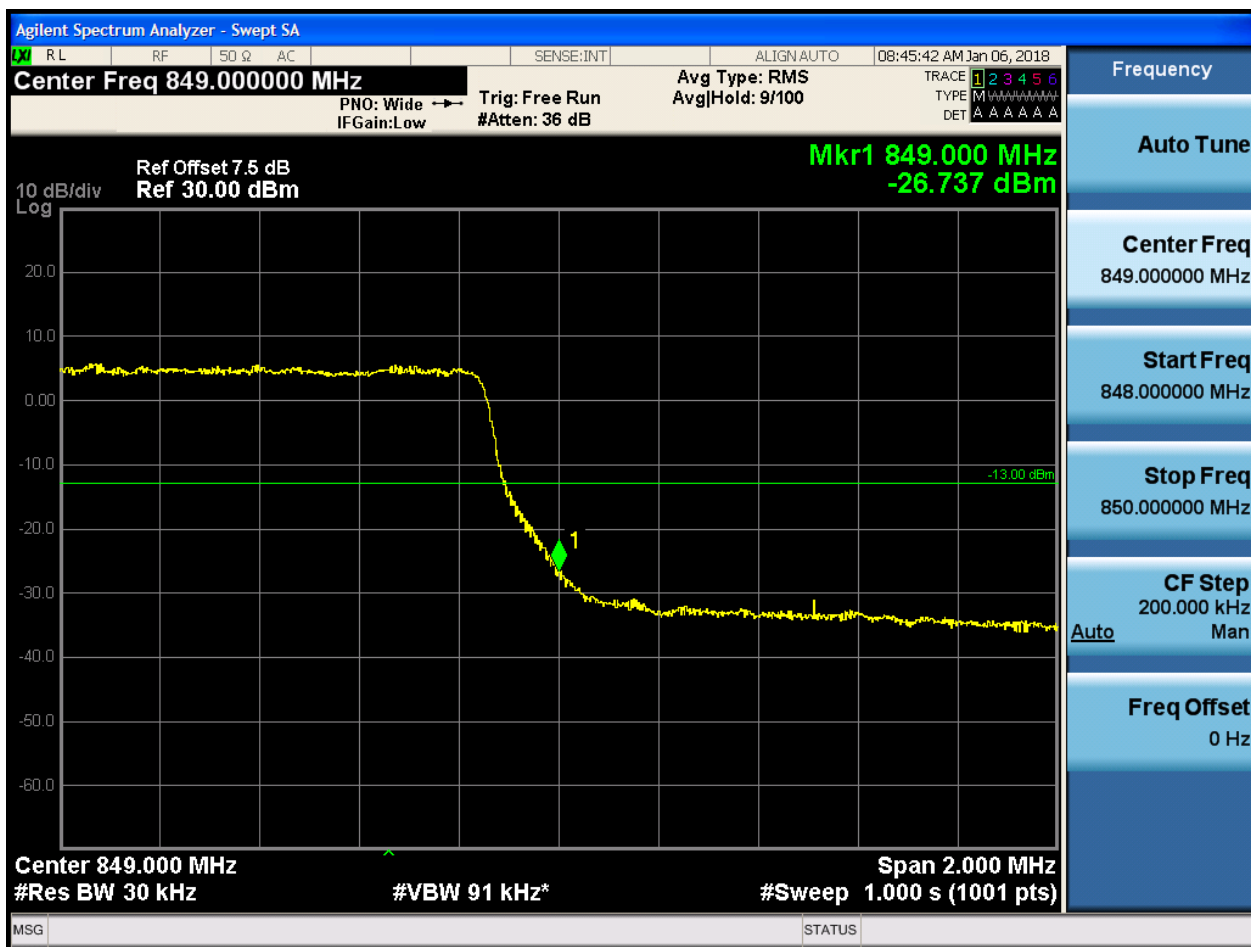
Ref Offset 7.5 dB Mkr1 849.010 MHz
Ref 30.00 dBm -30.810 dBm

10 dB/div Log

Center 849.000 MHz Span 2.000 MHz
#Res BW 30 kHz #VBW 91 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.2.2.4 Test RB = RB15#0

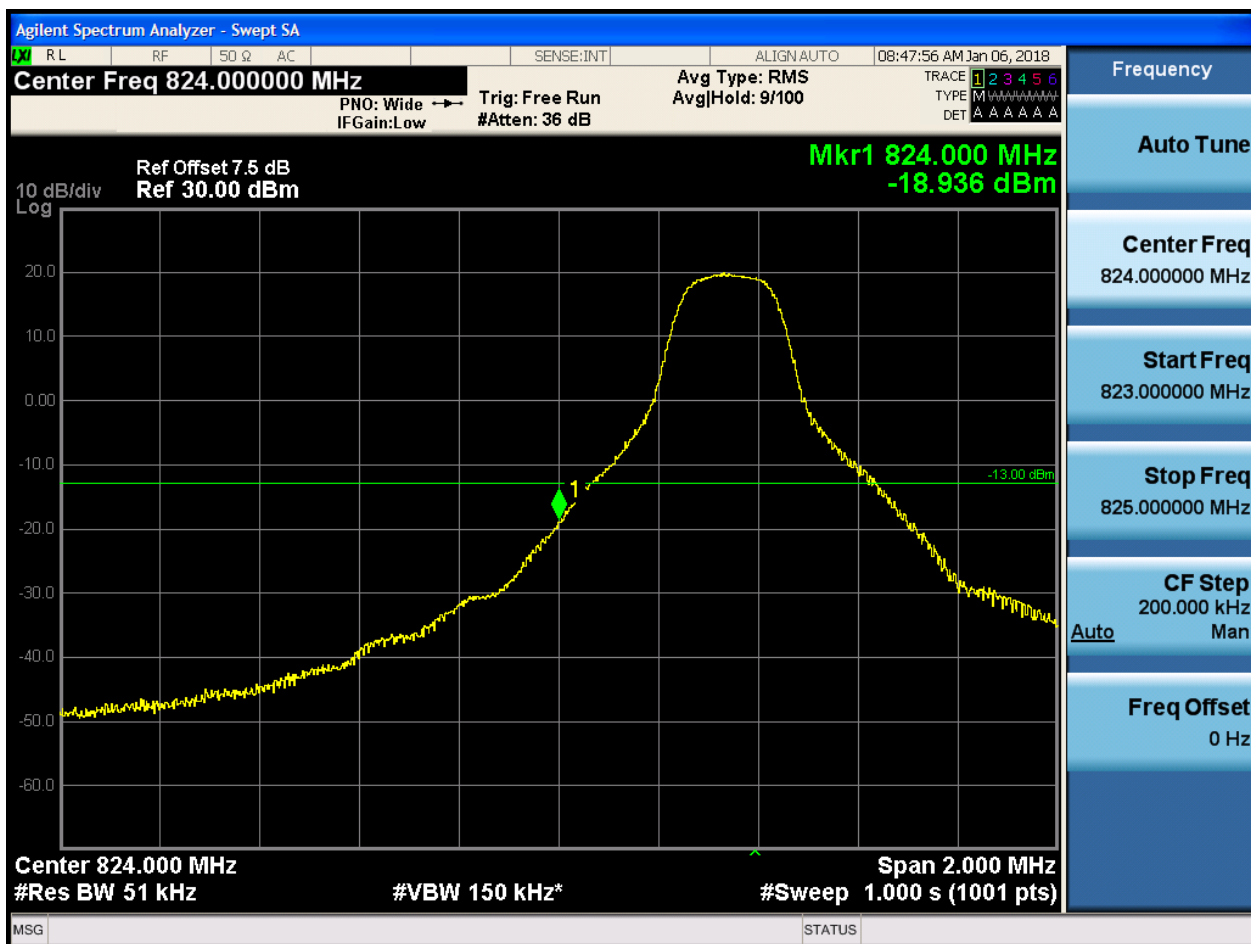




5.1.1.1.3 Test Bandwidth = 5

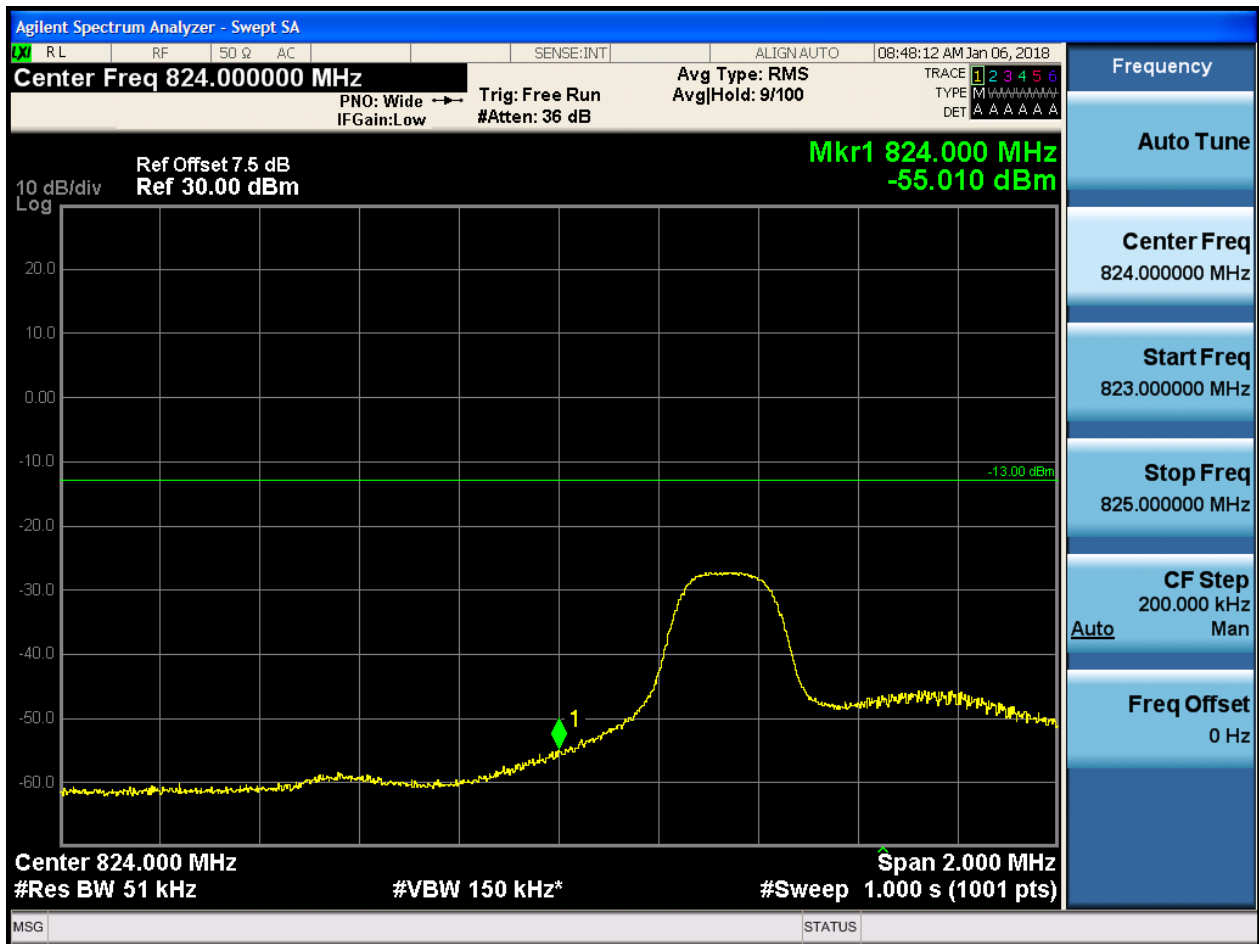
5.1.1.1.3.1 Test Channel = LCH

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 08:48:28 AM Jan 06, 2018

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

Mkr1 824.000 MHz
-30.849 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

Center Freq 824.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 51 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
Auto

Freq Offset
0 Hz

Mkr1 824.000 MHz
-26.462 dBm

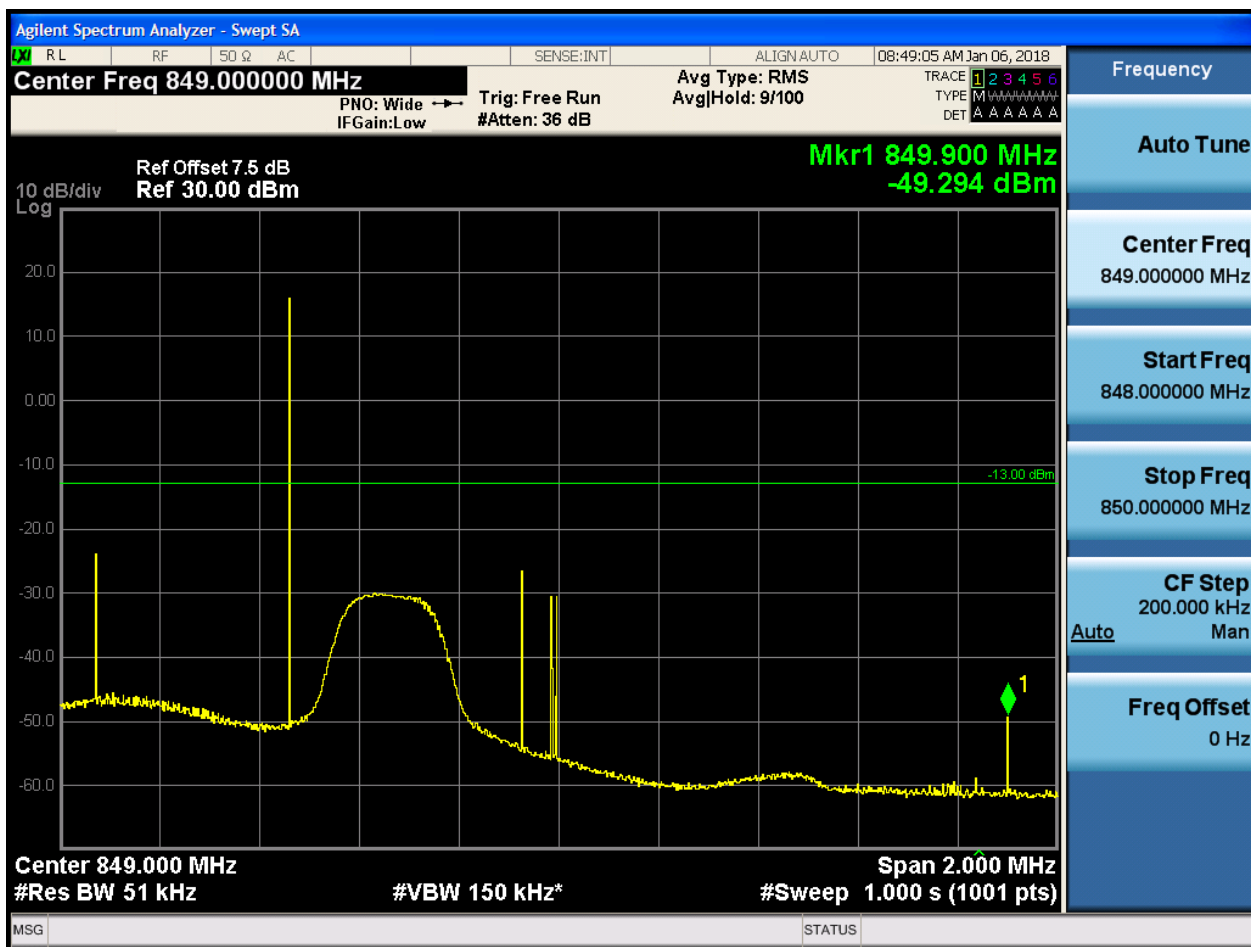
Trig: Free Run
#Atten: 36 dB

Msg: MSG STATUS

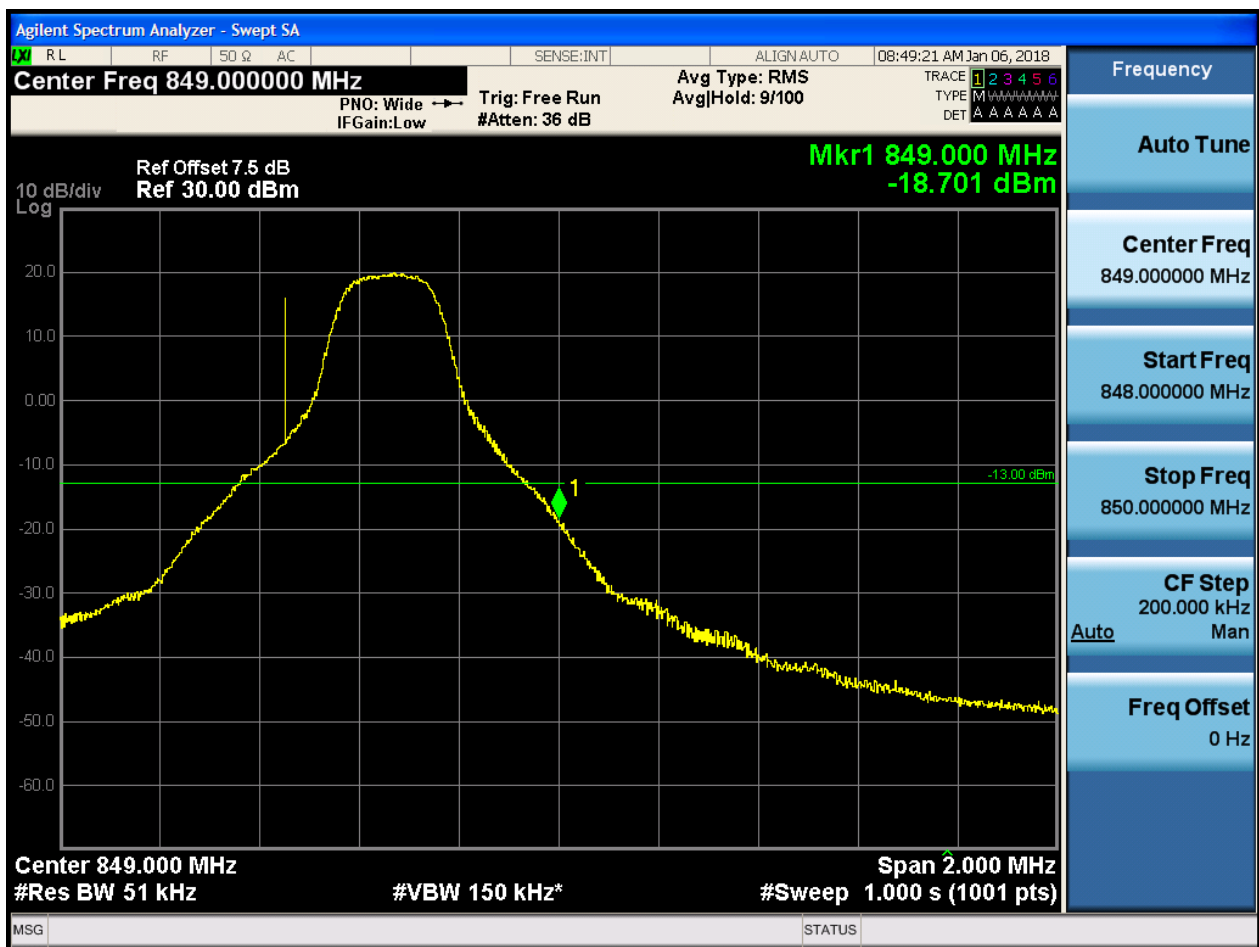
The screenshot displays a spectrum analyzer interface with a central plot area. The plot shows a signal that is relatively flat at -30 dBm from 823 MHz to approximately 824 MHz, then rises sharply to about -13 dBm by 825 MHz. A yellow marker labeled '1' is positioned on the rising edge of the signal. The right side of the interface features a vertical stack of control panels: 'Frequency' (showing Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset), 'Auto Tune', and a 'Msg' status panel at the bottom. The bottom of the interface has a status bar with 'MSG' and 'STATUS' indicators.

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 08:49:37 AM Jan 06, 2018

Center Freq 849.000000 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

Mkr1 849.010 MHz
-31.335 dBm

10 dB/div
Log

-13.00 dBm

Center 849.000 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 849.000000 MHz
Start Freq 848.000000 MHz
Stop Freq 850.000000 MHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Trig: Free Run
#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 A

Mkr1 849.000 MHz
-26.977 dBm

Center 849.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz

MSG STATUS





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
-51.191 dBm

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 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 08:52:34 AM Jan 06, 2018

Center Freq 824.000000 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

10 dB/div
Log

Mkr1 823.950 MHz
-31.124 dBm

-13.00 dBm

1

Center 824.000 MHz
#Res BW 100 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 300 kHz*

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



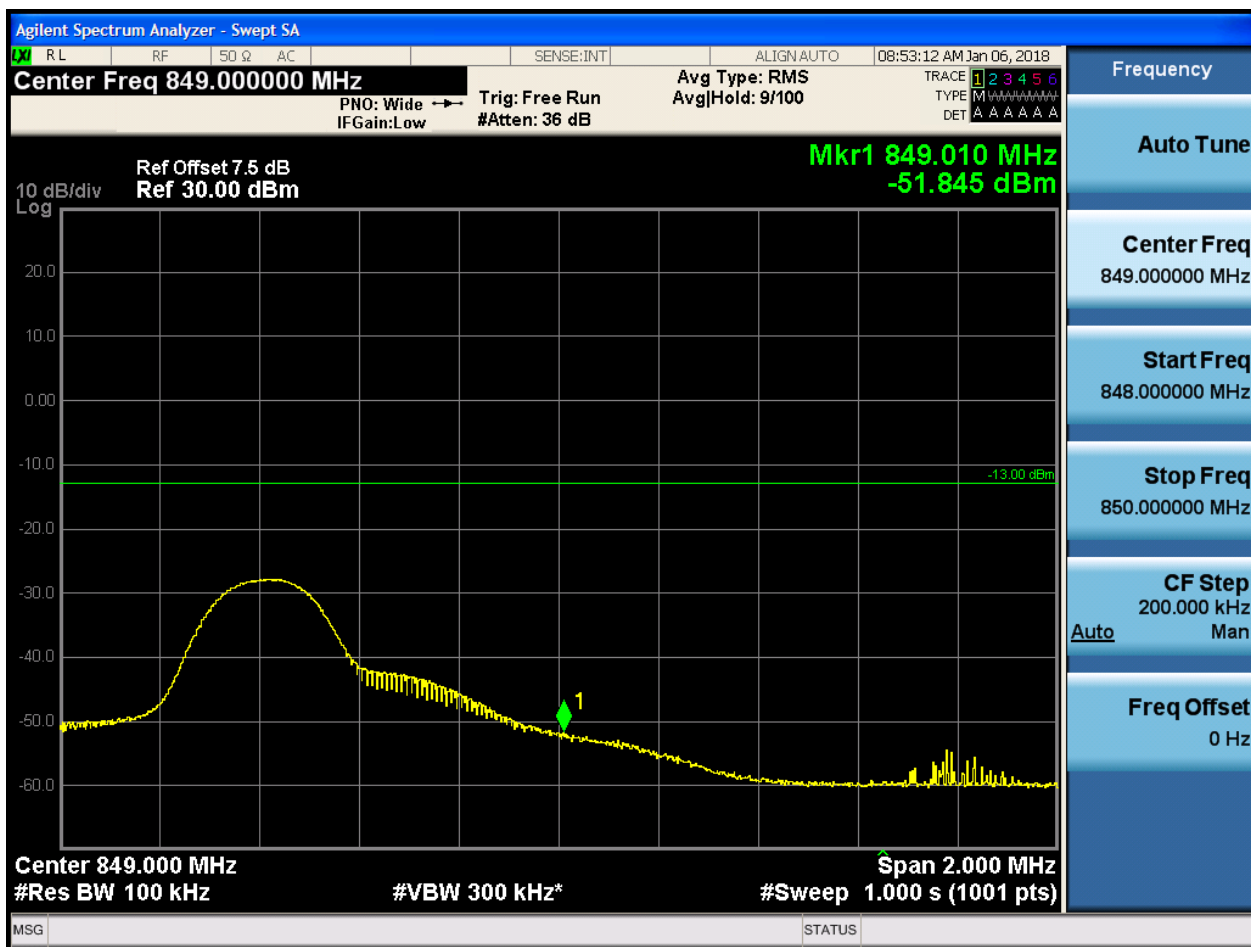
5.1.1.1.4.1.4 Test RB = RB50#0





5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.010 MHz
-30.065 dBm

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#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
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:53:43 AM Jan 06, 2018

Center Freq 849.000000 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

Mkr1 849.260 MHz
-31.844 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



5.1.1.1.4.2.4 Test RB = RB50#0



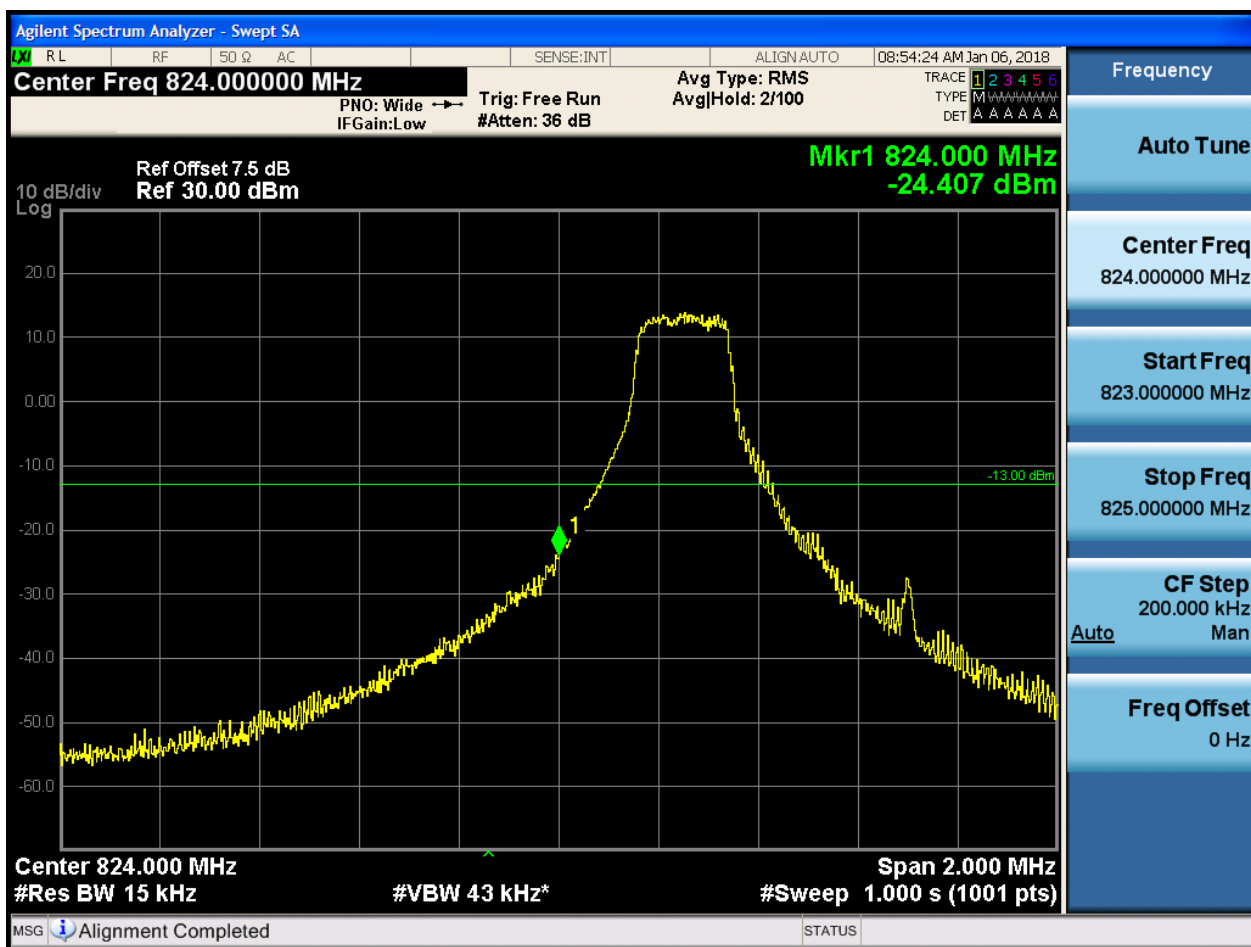


5.1.1.2 Test Mode = LTE/TM2

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

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 08:54:40 AM Jan 06, 2018

Center Freq 824.000000 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

10 dB/div
Log

Mkr1 823.290 MHz
-50.384 dBm

-13.00 dBm

1

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



Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 823.990 MHz
-30.158 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

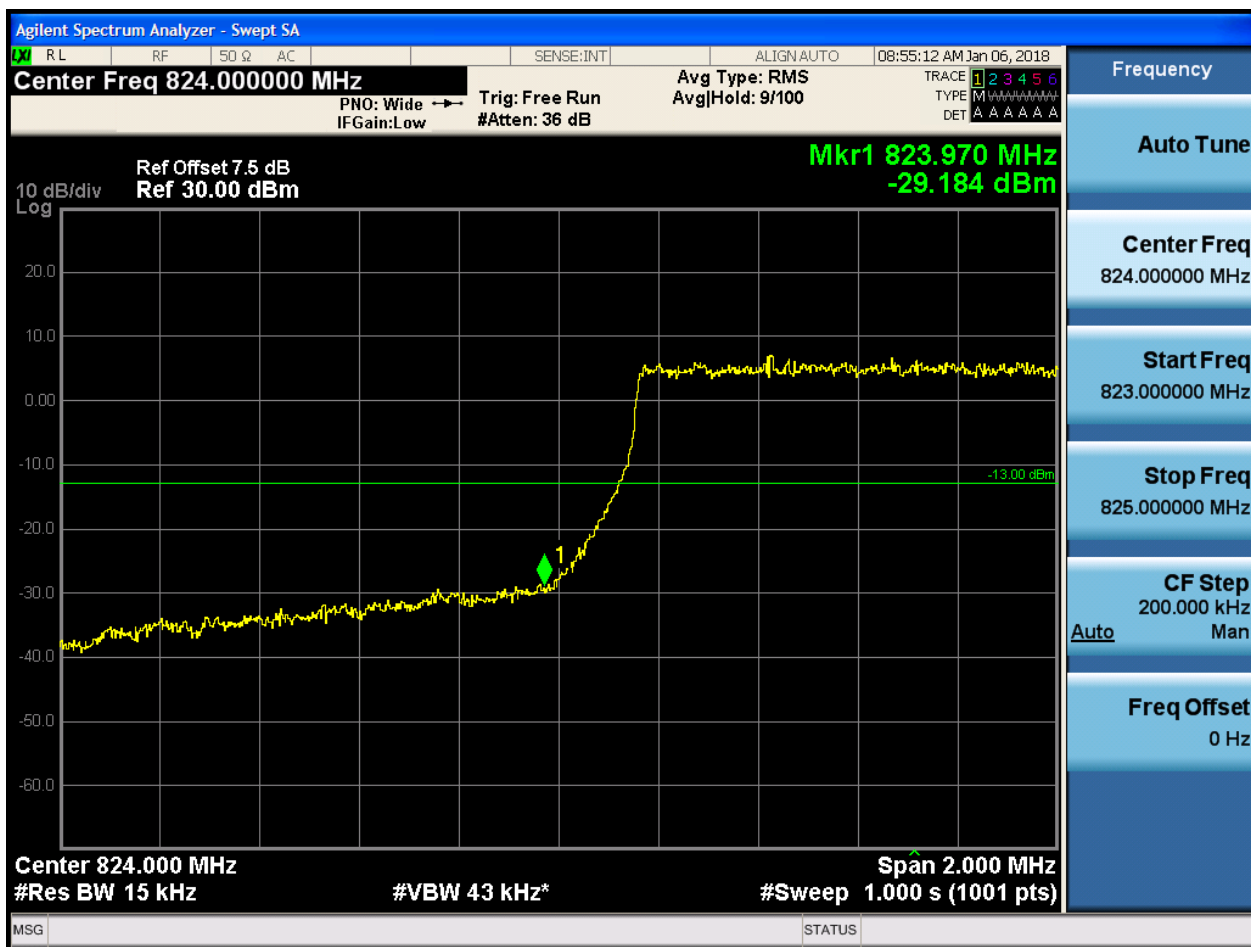
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz



5.1.1.2.1.1.4 Test RB = RB6#0



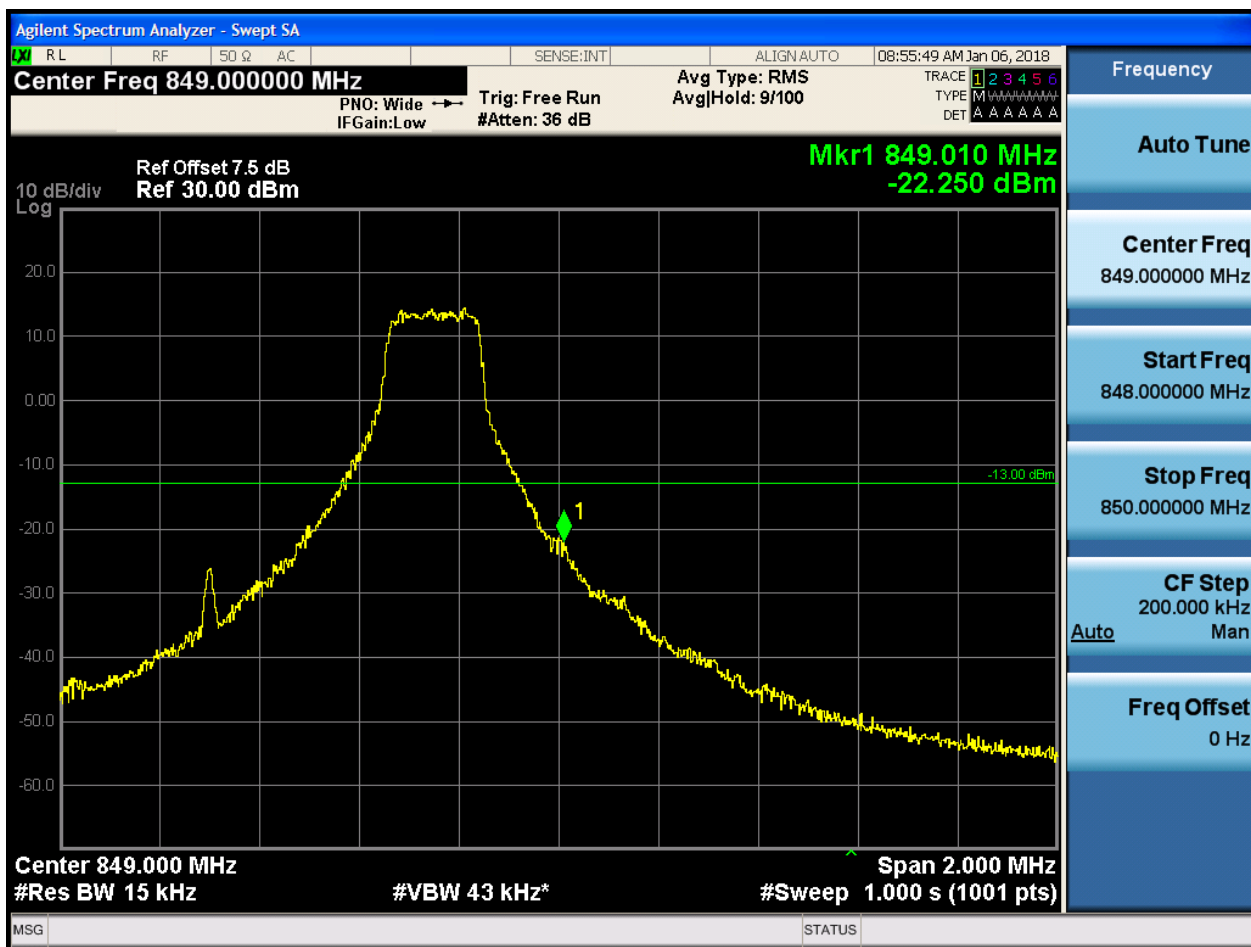
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5





5.1.1.2.1.2.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:56:21 AM Jan 06, 2018

Center Freq 849.000000 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

Mkr1 849.040 MHz
-29.026 dBm

10 dB/div
Log

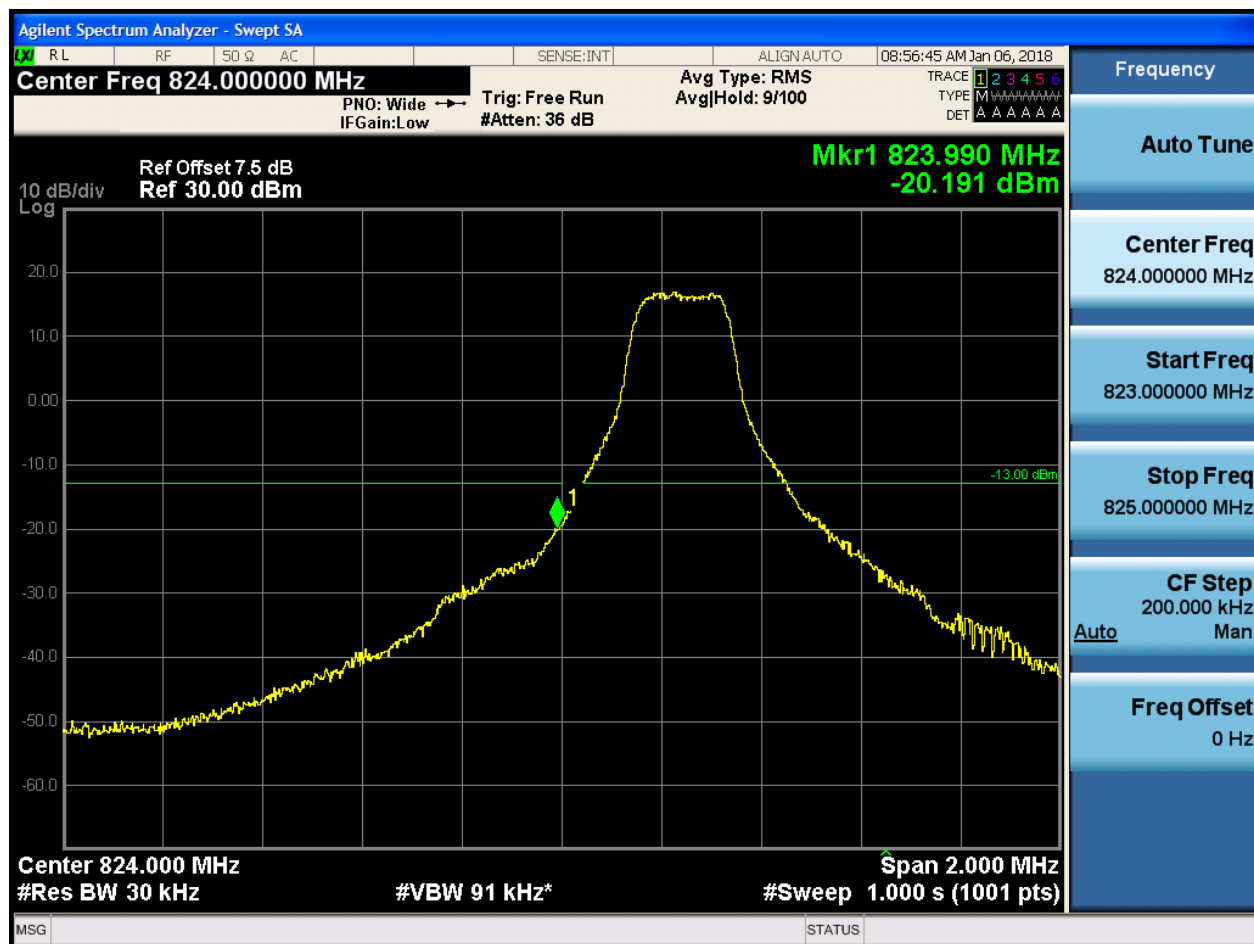
Center 849.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.2.2 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 08:57:01 AM Jan 06, 2018

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

Mkr1 823.010 MHz
-45.149 dBm

10 dB/div
Log

Center 824.000 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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:57:17 AM Jan 06, 2018

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

Mkr1 823.990 MHz
-30.928 dBm

10 dB/div
Log

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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 08:57:33 AM Jan 06, 2018

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 824.000 MHz
-24.809 dBm

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

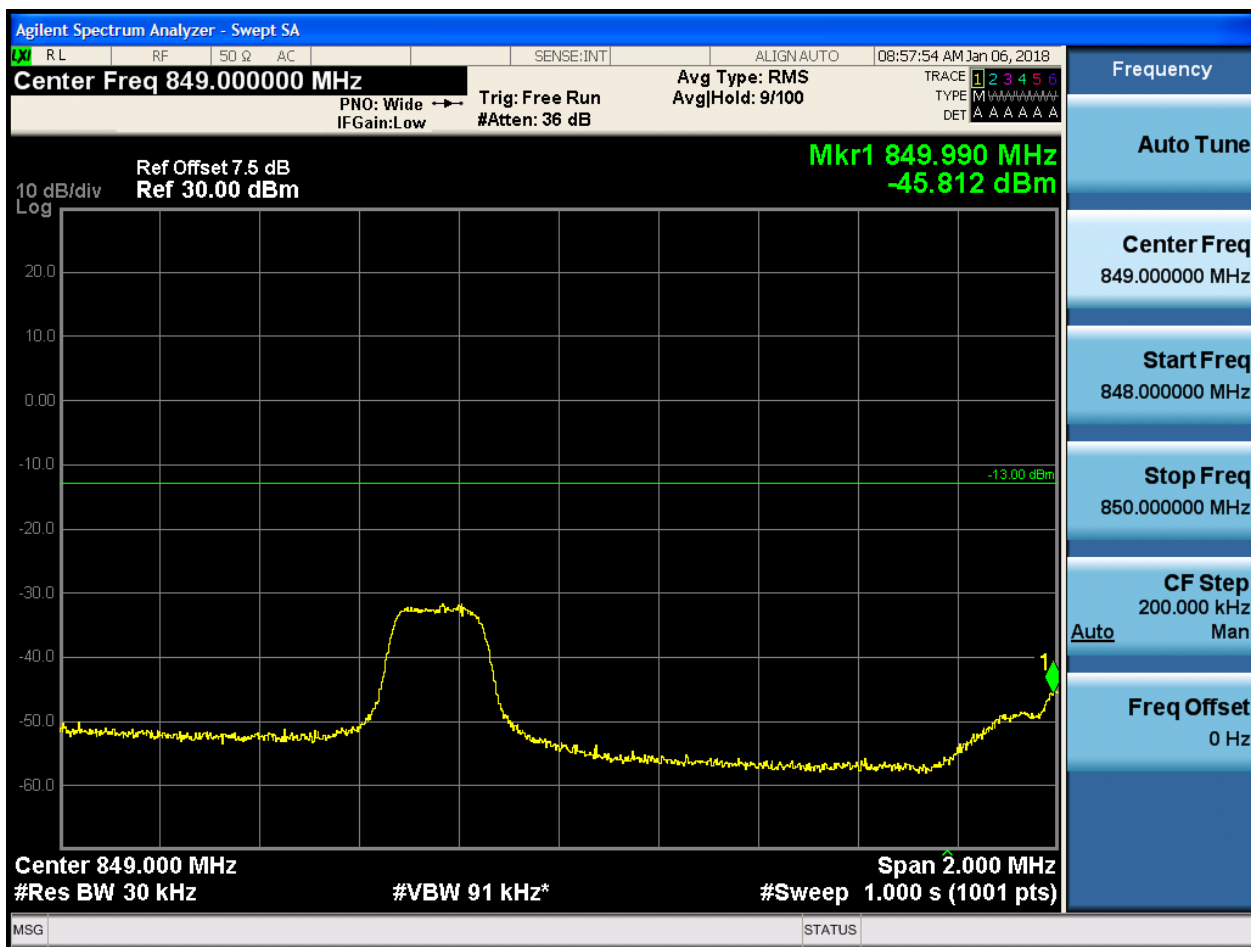
Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



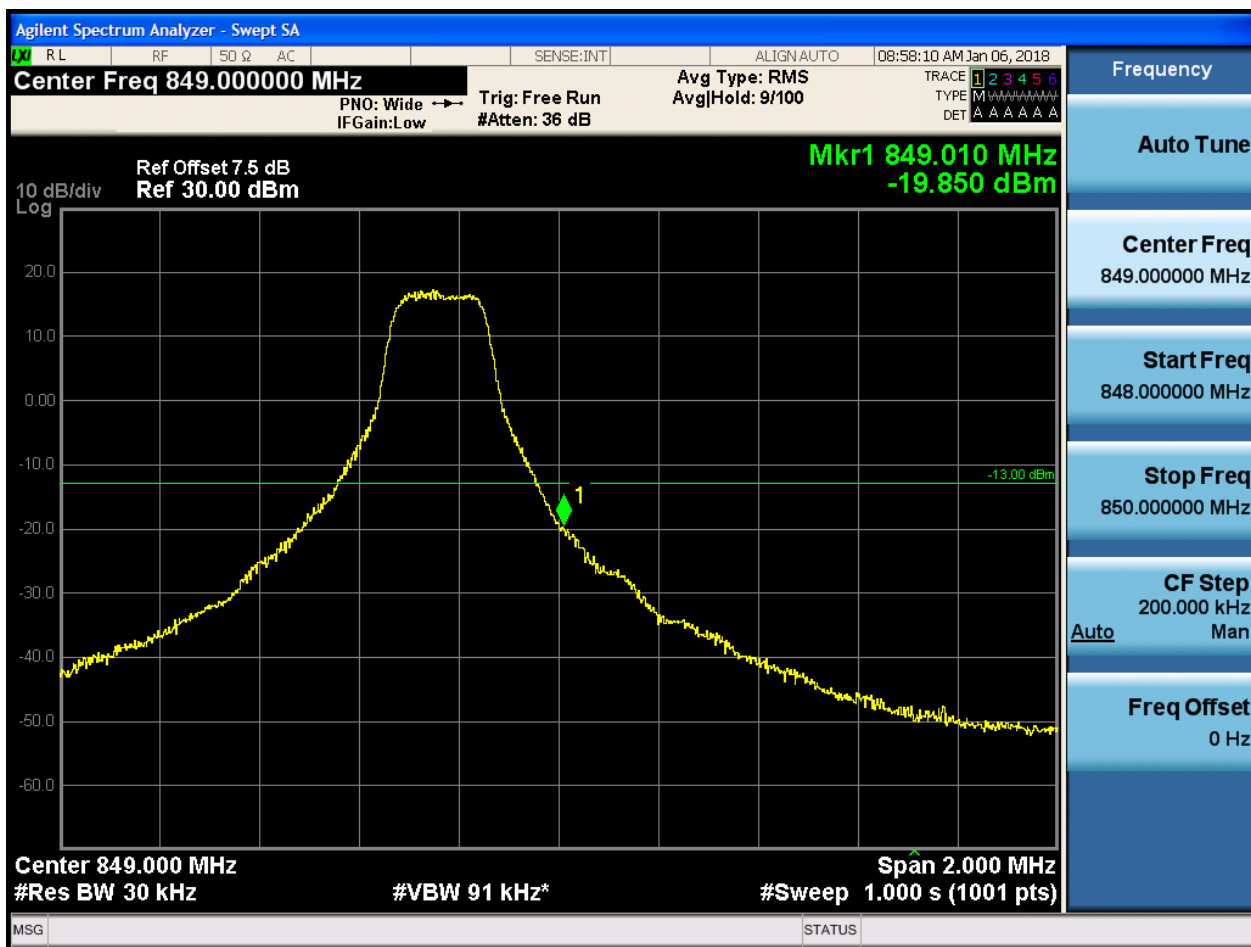
5.1.1.2.2.2 Test Channel = HCH

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 08:58:26 AM Jan 06, 2018

Center Freq 849.000000 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

Mkr1 849.020 MHz
-30.379 dBm

10 dB/div
Log

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

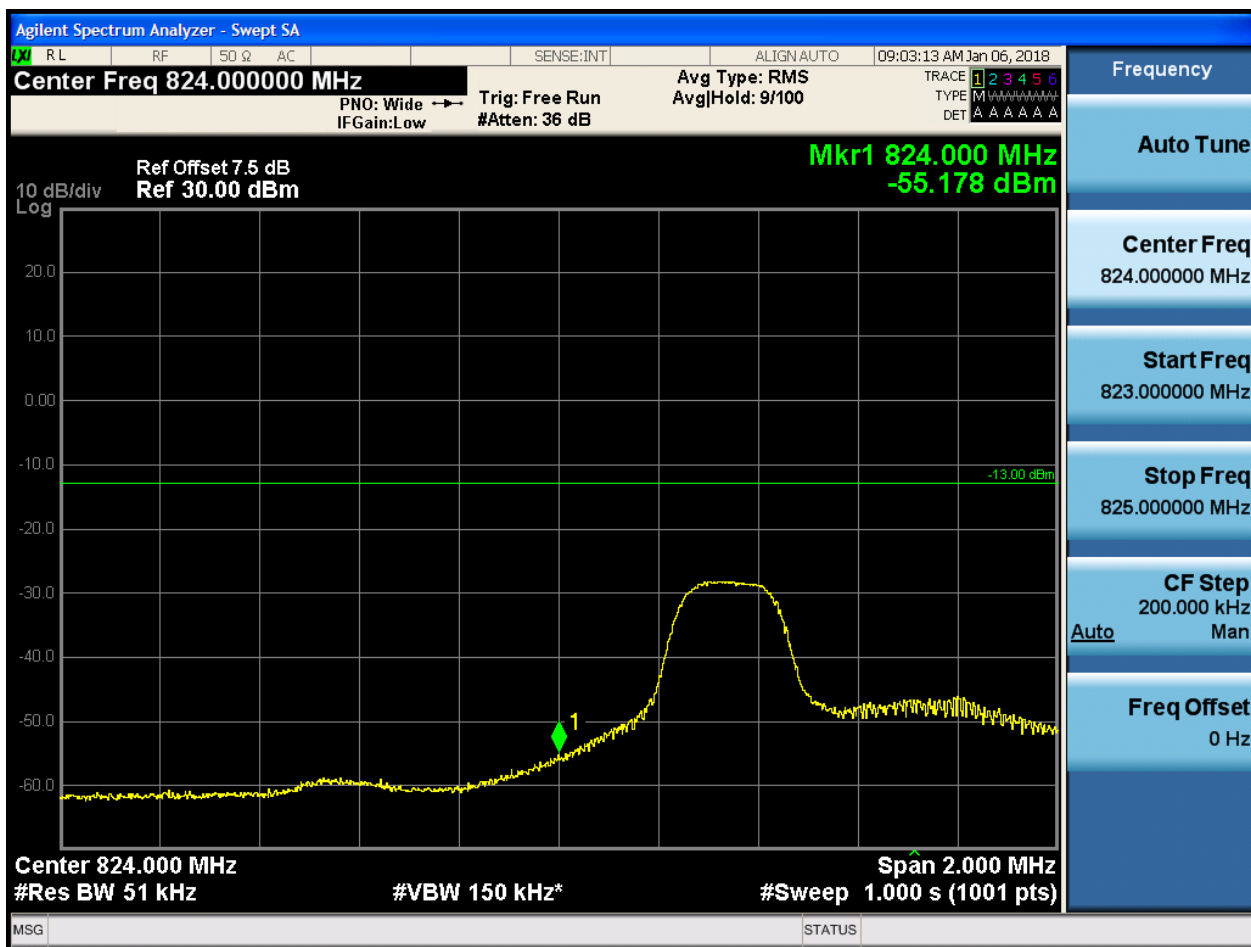


5.1.1.2.2.4 Test RB = RB15#0





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 09:03:29 AM Jan 06, 2018

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

Mkr1 823.990 MHz
-30.570 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 09:03:45 AM Jan 06, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide Trig: Free Run AvgHold: 9/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-26.905 dBm

10 dB/div
Log

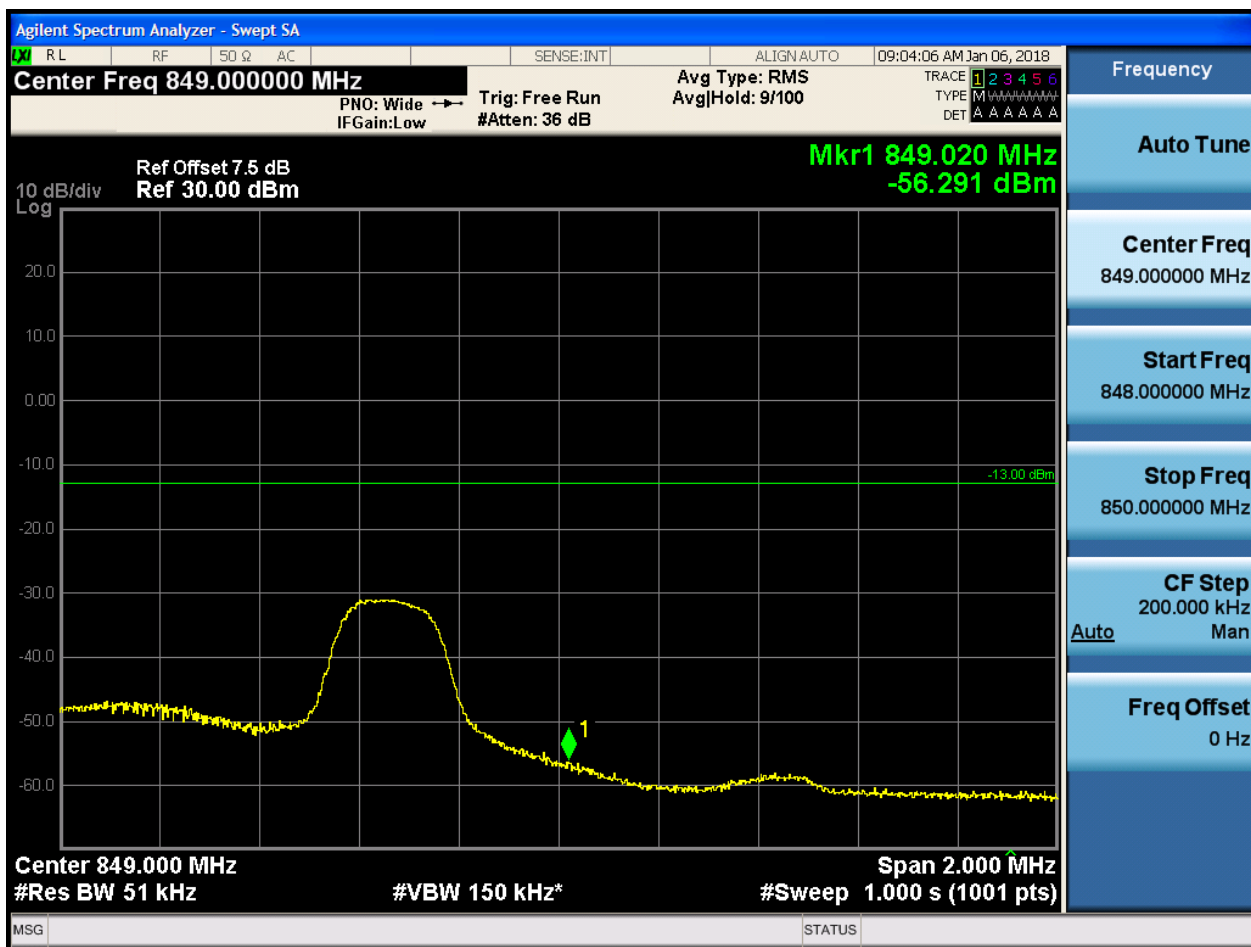
Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

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

RL	RF	50 Ω	AC	SENSE:INT	ALIGN AUTO	09:04:22 AM Jan 06, 2018
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Center Freq 849.000000 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

Mkr1 849.000 MHz
-19.161 dBm

Ref Offset 7.5 dB
Ref 30.00 dBm

Center 849.000 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 849.000000 MHz
Start Freq 848.000000 MHz
Stop Freq 850.000000 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 09:04:38 AM Jan 06, 2018

Center Freq 849.000000 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

Mkr1 849.000 MHz
-31.123 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

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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:04:55 AM Jan 06, 2018

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
-27.566 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)

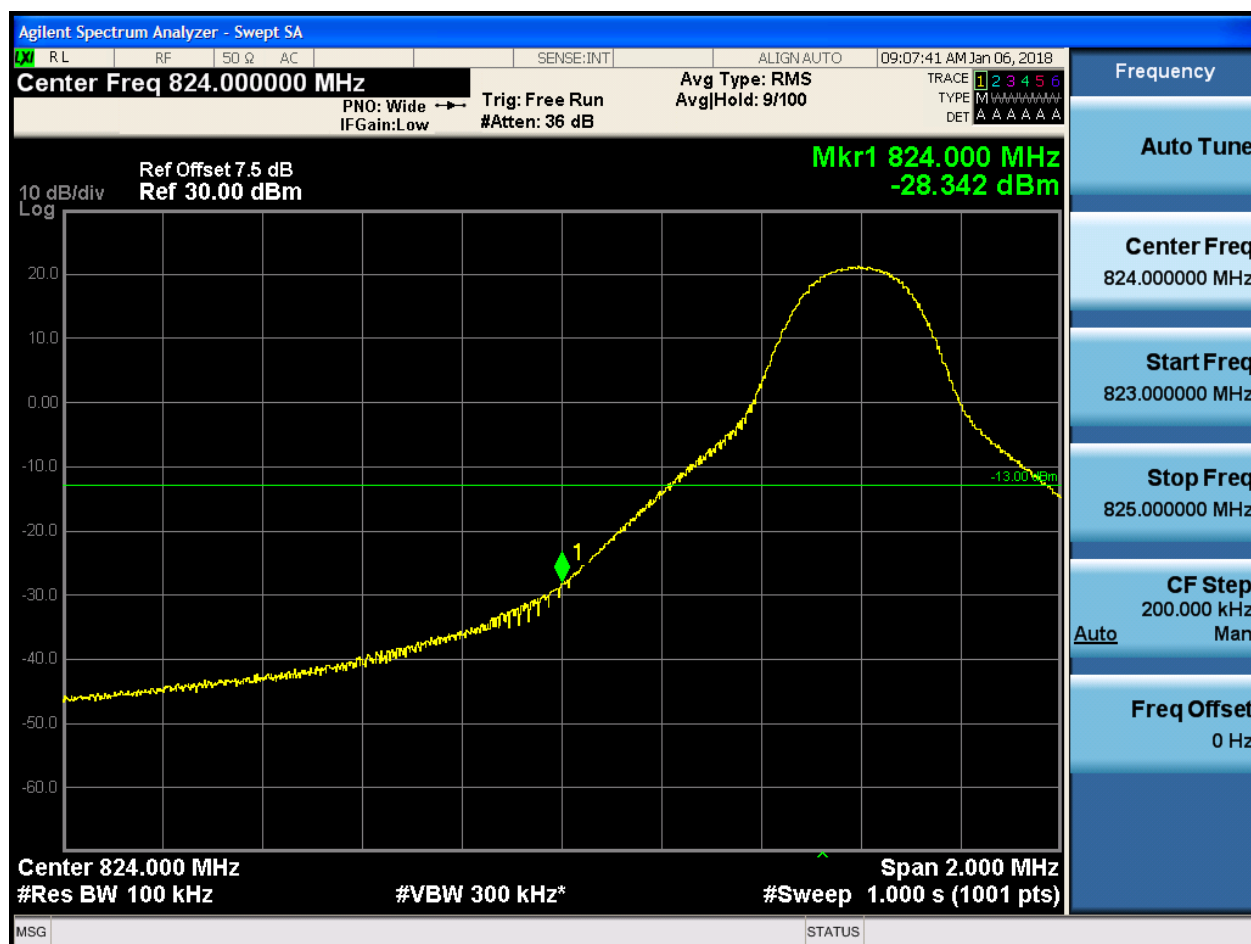
MSG STATUS

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

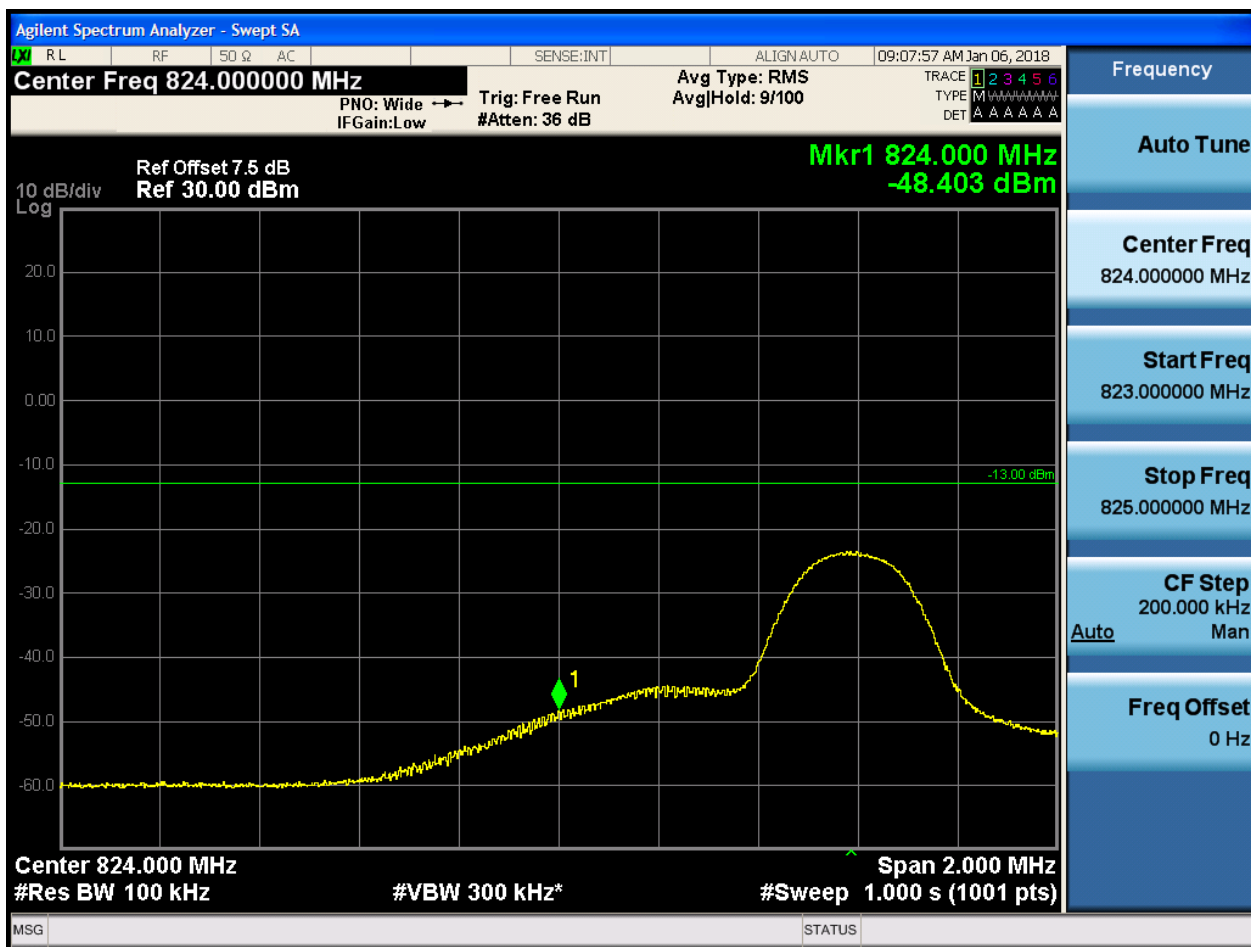
5.1.1.2.4 Test Bandwidth = 10

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0

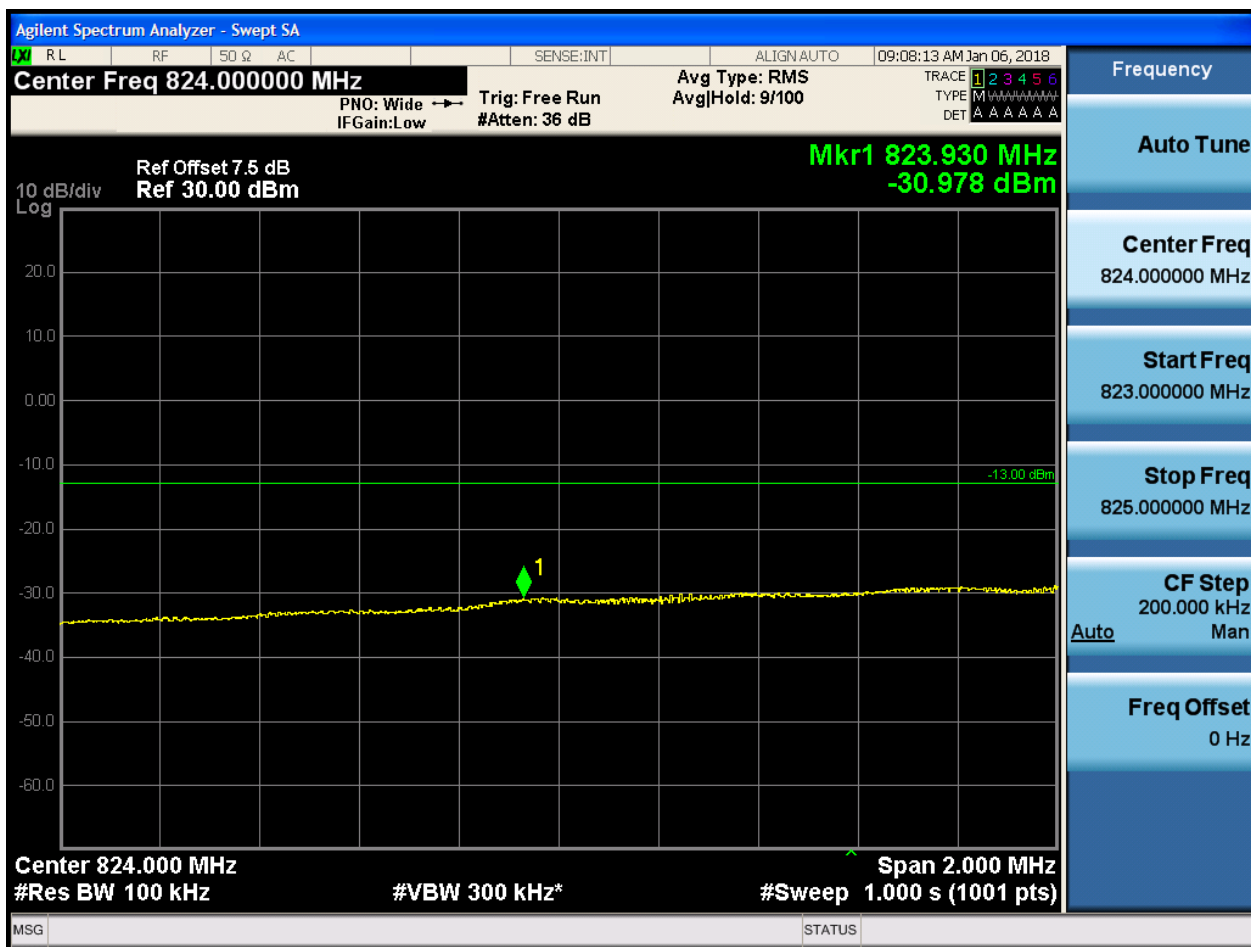


5.1.1.2.4.1.2 Test RB = RB1#49





5.1.1.2.4.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 09:08:29 AM Jan 06, 2018

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 W W
DET A A A A A A

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-29.396 dBm

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

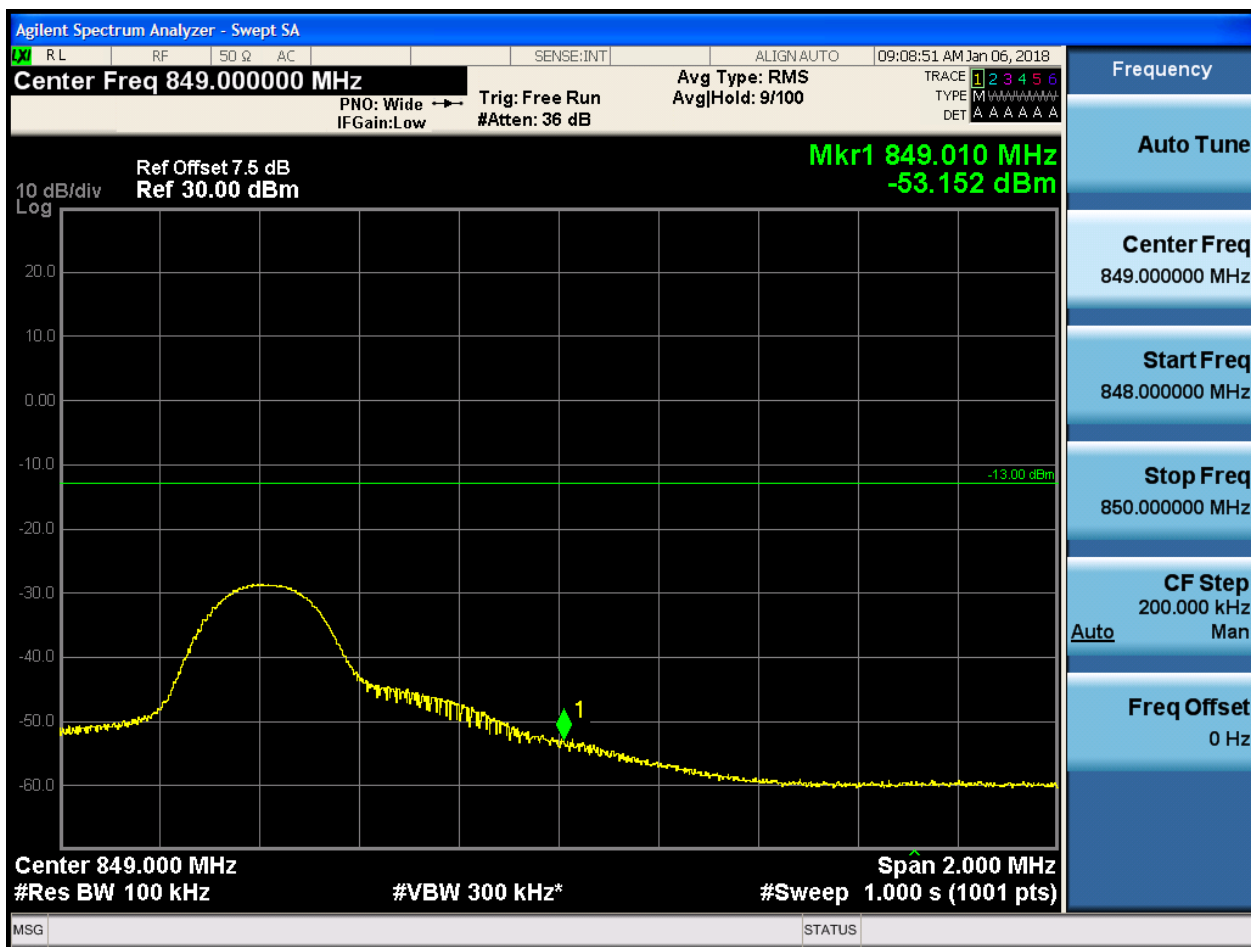
MSG STATUS

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



5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 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

Mkr1 849.000 MHz
-31.221 dBm

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

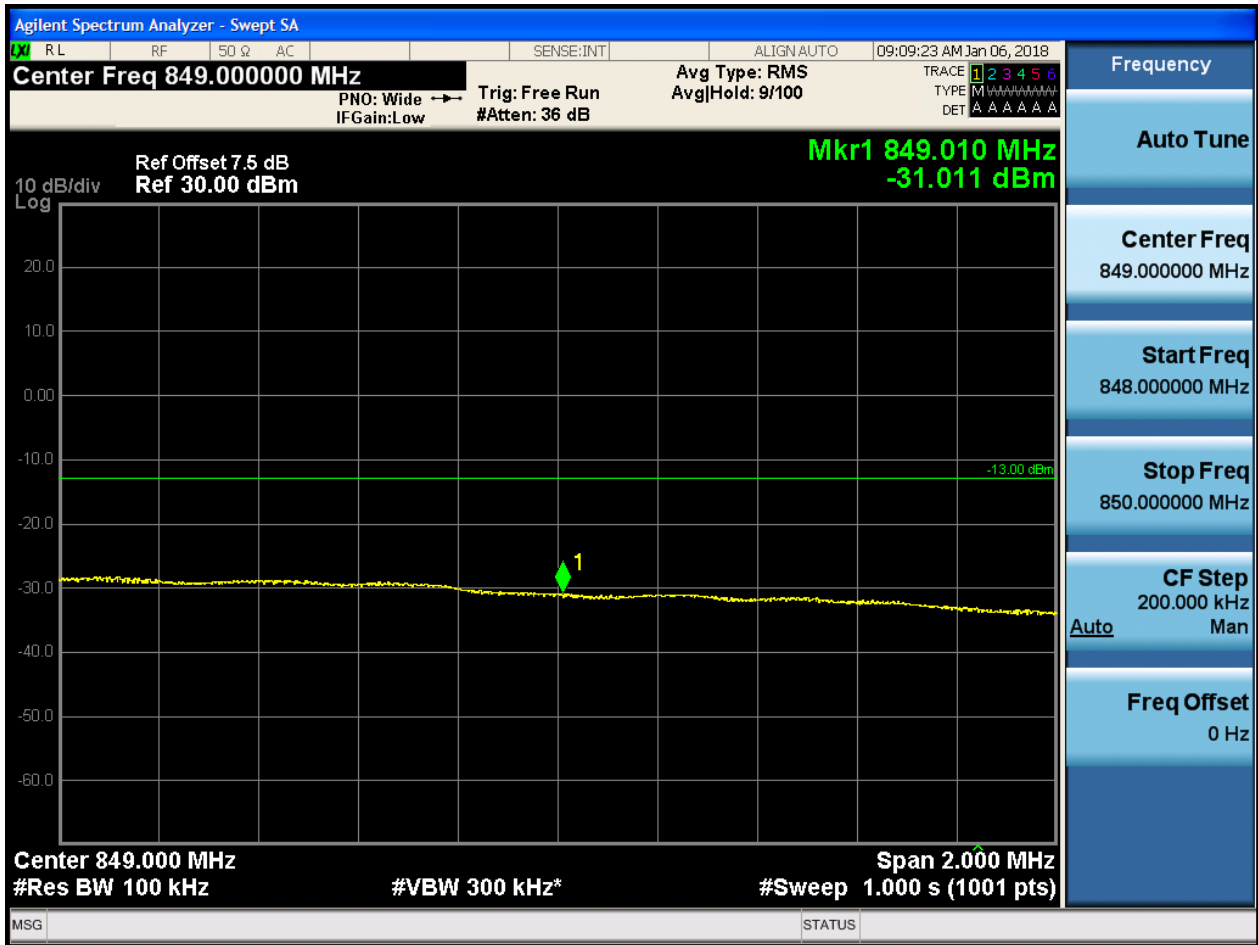
Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS

5.1.1.2.4.2.3 Test RB = RB25#13





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 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg/Hold: 9/100

Mkr1 849.010 MHz
-28.722 dBm

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

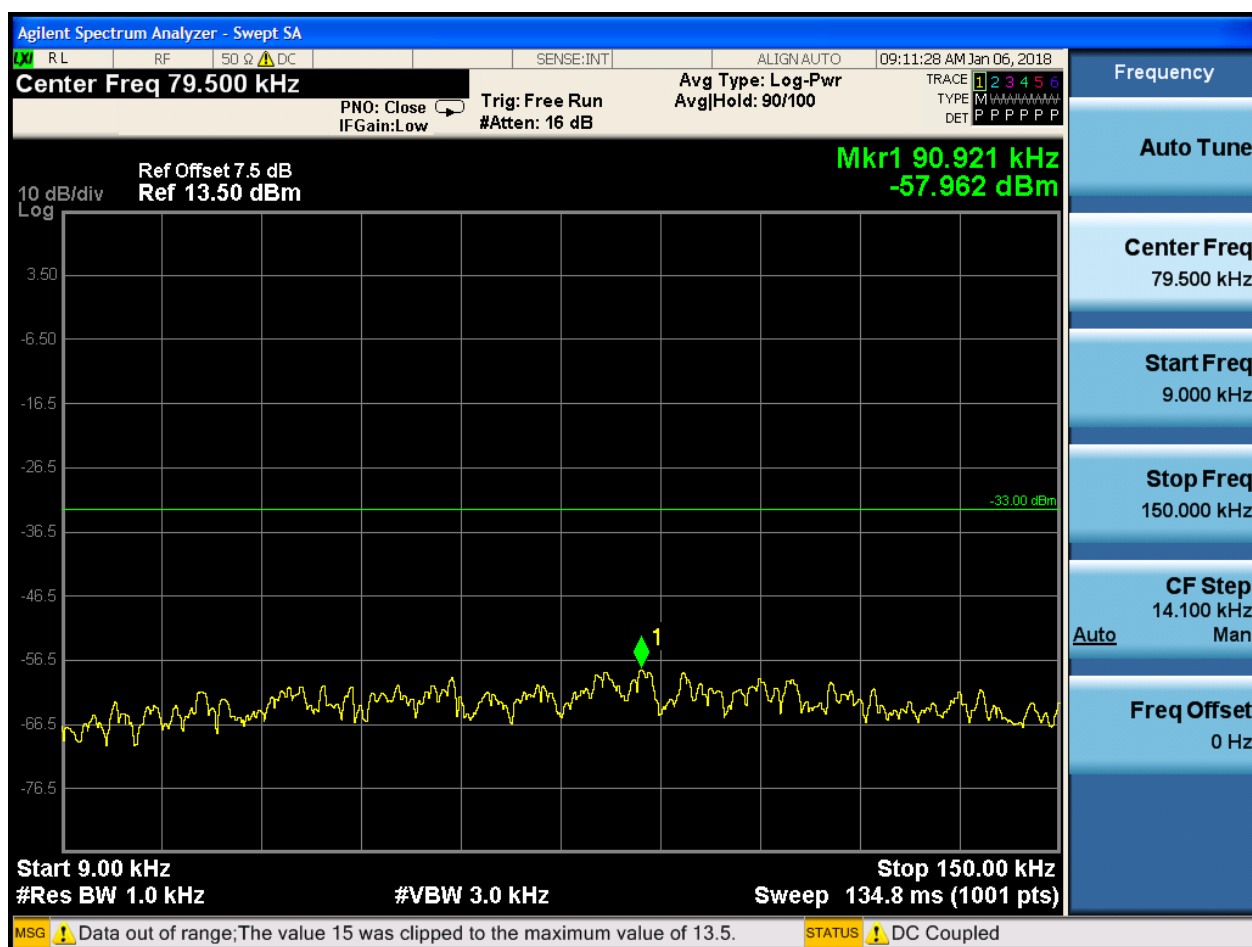
6.1.1 Test Band = BAND5

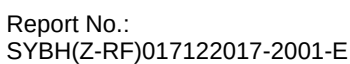
6.1.1.1 Test Mode = LTE/TM1

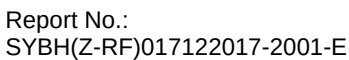
6.1.1.1.1 Test Bandwidth = 1.4

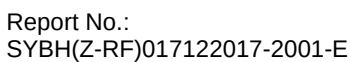
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1 Test RB = RB1#0











6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0

