



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	22.55	17.8	38.5	PASS
				RB1#3	22.82	18.07	38.5	PASS
				RB1#5	22.71	17.96	38.5	PASS
				RB3#0	22.65	17.9	38.5	PASS
				RB3#2	22.8	18.05	38.5	PASS
				RB3#3	22.82	18.07	38.5	PASS
				RB6#0	21.79	17.04	38.5	PASS
			MCH	RB1#0	22.22	17.47	38.5	PASS
				RB1#3	22.31	17.56	38.5	PASS
				RB1#5	22.28	17.53	38.5	PASS
				RB3#0	22.17	17.42	38.5	PASS
				RB3#2	22.21	17.46	38.5	PASS
				RB3#3	22.19	17.44	38.5	PASS
				RB6#0	21.2	16.45	38.5	PASS
			HCH	RB1#0	22.23	17.48	38.5	PASS
				RB1#3	22.31	17.56	38.5	PASS
				RB1#5	22.17	17.42	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#0	22.29	17.54	38.5	PASS
				RB3#2	22.3	17.55	38.5	PASS
				RB3#3	22.24	17.49	38.5	PASS
				RB6#0	21.43	16.68	38.5	PASS
		3	LCH	RB1#0	22.41	17.66	38.5	PASS
				RB1#7	22.85	18.1	38.5	PASS
				RB1#14	22.45	17.7	38.5	PASS
				RB8#0	21.72	16.97	38.5	PASS
				RB8#4	21.78	17.03	38.5	PASS
				RB8#7	21.67	16.92	38.5	PASS
				RB15#0	21.71	16.96	38.5	PASS
			MCH	RB1#0	22.03	17.28	38.5	PASS
				RB1#7	22.24	17.49	38.5	PASS
				RB1#14	22.01	17.26	38.5	PASS
				RB8#0	21.22	16.47	38.5	PASS
				RB8#4	21.22	16.47	38.5	PASS
				RB8#7	21.18	16.43	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB15#0	21.16	16.41	38.5	PASS
			HCH	RB1#0	22.39	17.64	38.5	PASS
				RB1#7	22.47	17.72	38.5	PASS
				RB1#14	22.1	17.35	38.5	PASS
				RB8#0	21.51	16.76	38.5	PASS
				RB8#4	21.39	16.64	38.5	PASS
				RB8#7	21.34	16.59	38.5	PASS
				RB15#0	21.52	16.77	38.5	PASS
		5	LCH	RB1#0	22.34	17.59	38.5	PASS
				RB1#13	22.76	18.01	38.5	PASS
				RB1#24	22.2	17.45	38.5	PASS
				RB12#0	21.71	16.96	38.5	PASS
				RB12#6	21.82	17.07	38.5	PASS
				RB12#13	21.56	16.81	38.5	PASS
				RB25#0	21.62	16.87	38.5	PASS
			MCH	RB1#0	21.92	17.17	38.5	PASS
				RB1#13	22.25	17.5	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#24	22.04	17.29	38.5	PASS
				RB12#0	21.24	16.49	38.5	PASS
				RB12#6	21.31	16.56	38.5	PASS
				RB12#13	21.14	16.39	38.5	PASS
				RB25#0	21.08	16.33	38.5	PASS
			HCH	RB1#0	22.67	17.92	38.5	PASS
				RB1#13	22.41	17.66	38.5	PASS
				RB1#24	21.89	17.14	38.5	PASS
				RB12#0	21.75	17	38.5	PASS
				RB12#6	21.72	16.97	38.5	PASS
				RB12#13	21.24	16.49	38.5	PASS
				RB25#0	21.65	16.9	38.5	PASS
		10	LCH	RB1#0	22.89	18.14	38.5	PASS
				RB1#25	22.96	18.21	38.5	PASS
				RB1#49	22.14	17.39	38.5	PASS
				RB25#0	22.1	17.35	38.5	PASS
				RB25#13	21.97	17.22	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.52	16.77	38.5	PASS
				RB50#0	21.83	17.08	38.5	PASS
			MCH	RB1#0	22.28	17.53	38.5	PASS
				RB1#25	22.67	17.92	38.5	PASS
				RB1#49	22.71	17.96	38.5	PASS
				RB25#0	21.52	16.77	38.5	PASS
				RB25#13	21.63	16.88	38.5	PASS
				RB25#25	21.66	16.91	38.5	PASS
				RB50#0	21.51	16.76	38.5	PASS
			HCH	RB1#0	22.54	17.79	38.5	PASS
				RB1#25	23.23	18.48	38.5	PASS
				RB1#49	22.29	17.54	38.5	PASS
				RB25#0	22.09	17.34	38.5	PASS
				RB25#13	22.37	17.62	38.5	PASS
				RB25#25	22.1	17.35	38.5	PASS
				RB50#0	22.24	17.49	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.18	16.43	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	21.44	16.69	38.5	PASS
				RB1#5	21.37	16.62	38.5	PASS
				RB3#0	21.32	16.57	38.5	PASS
				RB3#2	21.45	16.7	38.5	PASS
				RB3#3	21.41	16.66	38.5	PASS
				RB6#0	21.26	16.51	38.5	PASS
			MCH	RB1#0	20.71	15.96	38.5	PASS
				RB1#3	20.82	16.07	38.5	PASS
				RB1#5	20.73	15.98	38.5	PASS
				RB3#0	20.77	16.02	38.5	PASS
				RB3#2	20.77	16.02	38.5	PASS
				RB3#3	20.79	16.04	38.5	PASS
				RB6#0	20.6	15.85	38.5	PASS
			HCH	RB1#0	20.98	16.23	38.5	PASS
				RB1#3	21.06	16.31	38.5	PASS
				RB1#5	20.9	16.15	38.5	PASS
				RB3#0	21.06	16.31	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#2	21.03	16.28	38.5	PASS
				RB3#3	20.99	16.24	38.5	PASS
				RB6#0	20.96	16.21	38.5	PASS
		3	LCH	RB1#0	21.09	16.34	38.5	PASS
				RB1#7	21.53	16.78	38.5	PASS
				RB1#14	21.09	16.34	38.5	PASS
				RB8#0	21.25	16.5	38.5	PASS
				RB8#4	21.29	16.54	38.5	PASS
				RB8#7	21.19	16.44	38.5	PASS
				RB15#0	21.19	16.44	38.5	PASS
			MCH	RB1#0	20.56	15.81	38.5	PASS
				RB1#7	20.87	16.12	38.5	PASS
				RB1#14	20.55	15.8	38.5	PASS
				RB8#0	20.72	15.97	38.5	PASS
				RB8#4	20.72	15.97	38.5	PASS
				RB8#7	20.67	15.92	38.5	PASS
				RB15#0	20.66	15.91	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.18	16.43	38.5	PASS
				RB1#7	21.24	16.49	38.5	PASS
				RB1#14	20.9	16.15	38.5	PASS
				RB8#0	21.12	16.37	38.5	PASS
				RB8#4	21.04	16.29	38.5	PASS
				RB8#7	20.92	16.17	38.5	PASS
				RB15#0	21.05	16.3	38.5	PASS
		5	LCH	RB1#0	21.05	16.3	38.5	PASS
				RB1#13	21.58	16.83	38.5	PASS
				RB1#24	20.96	16.21	38.5	PASS
				RB12#0	21.16	16.41	38.5	PASS
				RB12#6	21.28	16.53	38.5	PASS
				RB12#13	20.97	16.22	38.5	PASS
				RB25#0	21.03	16.28	38.5	PASS
			MCH	RB1#0	20.41	15.66	38.5	PASS
				RB1#13	21.11	16.36	38.5	PASS
				RB1#24	20.71	15.96	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#0	20.67	15.92	38.5	PASS
				RB12#6	20.74	15.99	38.5	PASS
				RB12#13	20.64	15.89	38.5	PASS
				RB25#0	20.49	15.74	38.5	PASS
			HCH	RB1#0	21.55	16.8	38.5	PASS
				RB1#13	21.33	16.58	38.5	PASS
				RB1#24	20.84	16.09	38.5	PASS
				RB12#0	21.2	16.45	38.5	PASS
				RB12#6	21.13	16.38	38.5	PASS
				RB12#13	20.57	15.82	38.5	PASS
				RB25#0	21.06	16.31	38.5	PASS
		10	LCH	RB1#0	21.27	16.52	38.5	PASS
				RB1#25	21.38	16.63	38.5	PASS
				RB1#49	20.54	15.79	38.5	PASS
				RB25#0	21.56	16.81	38.5	PASS
				RB25#13	21.35	16.6	38.5	PASS
				RB25#25	20.94	16.19	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.25	16.5	38.5	PASS
				RB1#0	20.89	16.14	38.5	PASS
			MCH	RB1#25	21.29	16.54	38.5	PASS
				RB1#49	21.31	16.56	38.5	PASS
				RB25#0	20.99	16.24	38.5	PASS
				RB25#13	21.04	16.29	38.5	PASS
				RB25#25	21.03	16.28	38.5	PASS
				RB50#0	20.89	16.14	38.5	PASS
			HCH	RB1#0	21.32	16.57	38.5	PASS
				RB1#25	21.95	17.2	38.5	PASS
				RB1#49	21.05	16.3	38.5	PASS
				RB25#0	21.49	16.74	38.5	PASS
				RB25#13	21.73	16.98	38.5	PASS
				RB25#25	21.46	16.71	38.5	PASS
				RB50#0	21.68	16.93	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,

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

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

b, SGP=Signal Generator Level

Note2:

SET Span=1.5*OBW

SET RBW=1%of the OBW,not to exceed 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
BAND5	LTE/TM1	1.4	LCH	RB1#0	0	13	PASS
				RB1#3	4.41	13	PASS
				RB1#5	4.41	13	PASS
				RB3#0	5.03	13	PASS
				RB3#2	4.67	13	PASS
				RB3#3	4.85	13	PASS
				RB6#0	5.67	13	PASS
			MCH	RB1#0	4.68	13	PASS
				RB1#3	4.74	13	PASS
				RB1#5	4.72	13	PASS
				RB3#0	5.2	13	PASS
				RB3#2	5.26	13	PASS
				RB3#3	5.1	13	PASS
				RB6#0	5.54	13	PASS
			HCH	RB1#0	4.52	13	PASS
				RB1#3	4.54	13	PASS
				RB1#5	4.44	13	PASS
				RB3#0	4.91	13	PASS
				RB3#2	4.82	13	PASS
				RB3#3	4.84	13	PASS
				RB6#0	5.41	13	PASS
		3	LCH	RB1#0	4.64	13	PASS
				RB1#7	4.17	13	PASS
				RB1#14	4.42	13	PASS
				RB8#0	5.28	13	PASS
				RB8#4	5.24	13	PASS
				RB8#7	5.25	13	PASS
				RB15#0	5.58	13	PASS
			MCH	RB1#0	4.85	13	PASS
				RB1#7	4.72	13	PASS
				RB1#14	4.87	13	PASS
				RB8#0	5.4	13	PASS
				RB8#4	5.2	13	PASS
				RB8#7	5.26	13	PASS
				RB15#0	5.59	13	PASS
			HCH	RB1#0	4.37	13	PASS
				RB1#7	4.71	13	PASS
				RB1#14	4.53	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		5		RB8#0	5.38	13	PASS
				RB8#4	5.42	13	PASS
				RB8#7	5.42	13	PASS
				RB15#0	5.53	13	PASS
			LCH	RB1#0	0	13	PASS
				RB1#13	4.25	13	PASS
				RB1#24	4.56	13	PASS
				RB12#0	5.34	13	PASS
				RB12#6	5.19	13	PASS
				RB12#13	5.37	13	PASS
				RB25#0	5.77	13	PASS
			MCH	RB1#0	4.99	13	PASS
				RB1#13	4.92	13	PASS
				RB1#24	5.01	13	PASS
				RB12#0	5.5	13	PASS
				RB12#6	5.37	13	PASS
				RB12#13	5.55	13	PASS
				RB25#0	5.71	13	PASS
			HCH	RB1#0	3.78	13	PASS
				RB1#13	4.53	13	PASS
				RB1#24	4.76	13	PASS
				RB12#0	5.02	13	PASS
				RB12#6	5.11	13	PASS
				RB12#13	5.41	13	PASS
				RB25#0	5.54	13	PASS
		10	LCH	RB1#0	0	13	PASS
				RB1#25	4.35	13	PASS
				RB1#49	4.94	13	PASS
				RB25#0	5.43	13	PASS
				RB25#13	5.41	13	PASS
				RB25#25	5.82	13	PASS
				RB50#0	5.64	13	PASS
			MCH	RB1#0	4.64	13	PASS
				RB1#25	4.92	13	PASS
				RB1#49	4.54	13	PASS
				RB25#0	5.82	13	PASS
				RB25#13	5.68	13	PASS
				RB25#25	5.74	13	PASS
				RB50#0	6.21	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			HCH	RB1#0	4.54	13	PASS
				RB1#25	3.3	13	PASS
				RB1#49	4.22	13	PASS
				RB25#0	5.12	13	PASS
				RB25#13	4.57	13	PASS
				RB25#25	5.03	13	PASS
				RB50#0	5.43	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	0	13	PASS
				RB1#3	5.36	13	PASS
				RB1#5	5.29	13	PASS
				RB3#0	6.12	13	PASS
				RB3#2	6.18	13	PASS
				RB3#3	6.11	13	PASS
				RB6#0	6.16	13	PASS
			MCH	RB1#0	5.62	13	PASS
				RB1#3	5.5	13	PASS
				RB1#5	5.54	13	PASS
				RB3#0	6.16	13	PASS
				RB3#2	6.23	13	PASS
				RB3#3	6.11	13	PASS
				RB6#0	6.64	13	PASS
			HCH	RB1#0	5.62	13	PASS
				RB1#3	5.64	13	PASS
				RB1#5	5.67	13	PASS
				RB3#0	5.87	13	PASS
				RB3#2	5.77	13	PASS
				RB3#3	5.91	13	PASS
				RB6#0	6.35	13	PASS
		3	LCH	RB1#0	5.71	13	PASS
				RB1#7	5.3	13	PASS
				RB1#14	5.51	13	PASS
				RB8#0	6.05	13	PASS
				RB8#4	5.89	13	PASS
				RB8#7	6	13	PASS
				RB15#0	6.23	13	PASS
			MCH	RB1#0	5.8	13	PASS
				RB1#7	5.74	13	PASS
				RB1#14	5.94	13	PASS
				RB8#0	5.97	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	5.94	13	PASS
				RB8#7	5.95	13	PASS
				RB15#0	6.21	13	PASS
			HCH	RB1#0	5.23	13	PASS
				RB1#7	5.23	13	PASS
				RB1#14	5.33	13	PASS
				RB8#0	5.93	13	PASS
				RB8#4	5.85	13	PASS
				RB8#7	5.88	13	PASS
				RB15#0	6.04	13	PASS
		5	LCH	RB1#0	5.84	13	PASS
				RB1#13	5.52	13	PASS
				RB1#24	5.72	13	PASS
				RB12#0	6.24	13	PASS
				RB12#6	5.98	13	PASS
				RB12#13	6.24	13	PASS
				RB25#0	6.44	13	PASS
			MCH	RB1#0	5.59	13	PASS
				RB1#13	5.65	13	PASS
				RB1#24	5.55	13	PASS
				RB12#0	6.12	13	PASS
				RB12#6	6.05	13	PASS
				RB12#13	6.26	13	PASS
				RB25#0	6.5	13	PASS
			HCH	RB1#0	4.71	13	PASS
				RB1#13	5.14	13	PASS
				RB1#24	5.18	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.59	13	PASS
				RB12#13	5.99	13	PASS
				RB25#0	6.21	13	PASS
		10	LCH	RB1#0	0	13	PASS
				RB1#25	5.88	13	PASS
				RB1#49	6.1	13	PASS
				RB25#0	5.98	13	PASS
				RB25#13	6.1	13	PASS
				RB25#25	6.35	13	PASS
				RB50#0	6.46	13	PASS
			MCH	RB1#0	5.8	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#25	5.62	13	PASS
				RB1#49	5.46	13	PASS
				RB25#0	6.25	13	PASS
				RB25#13	6.17	13	PASS
				RB25#25	6.51	13	PASS
				RB50#0	6.68	13	PASS
			HCH	RB1#0	5.58	13	PASS
				RB1#25	4.41	13	PASS
				RB1#49	5.68	13	PASS
				RB25#0	5.73	13	PASS
				RB25#13	5.15	13	PASS
				RB25#25	5.75	13	PASS
				RB50#0	5.97	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

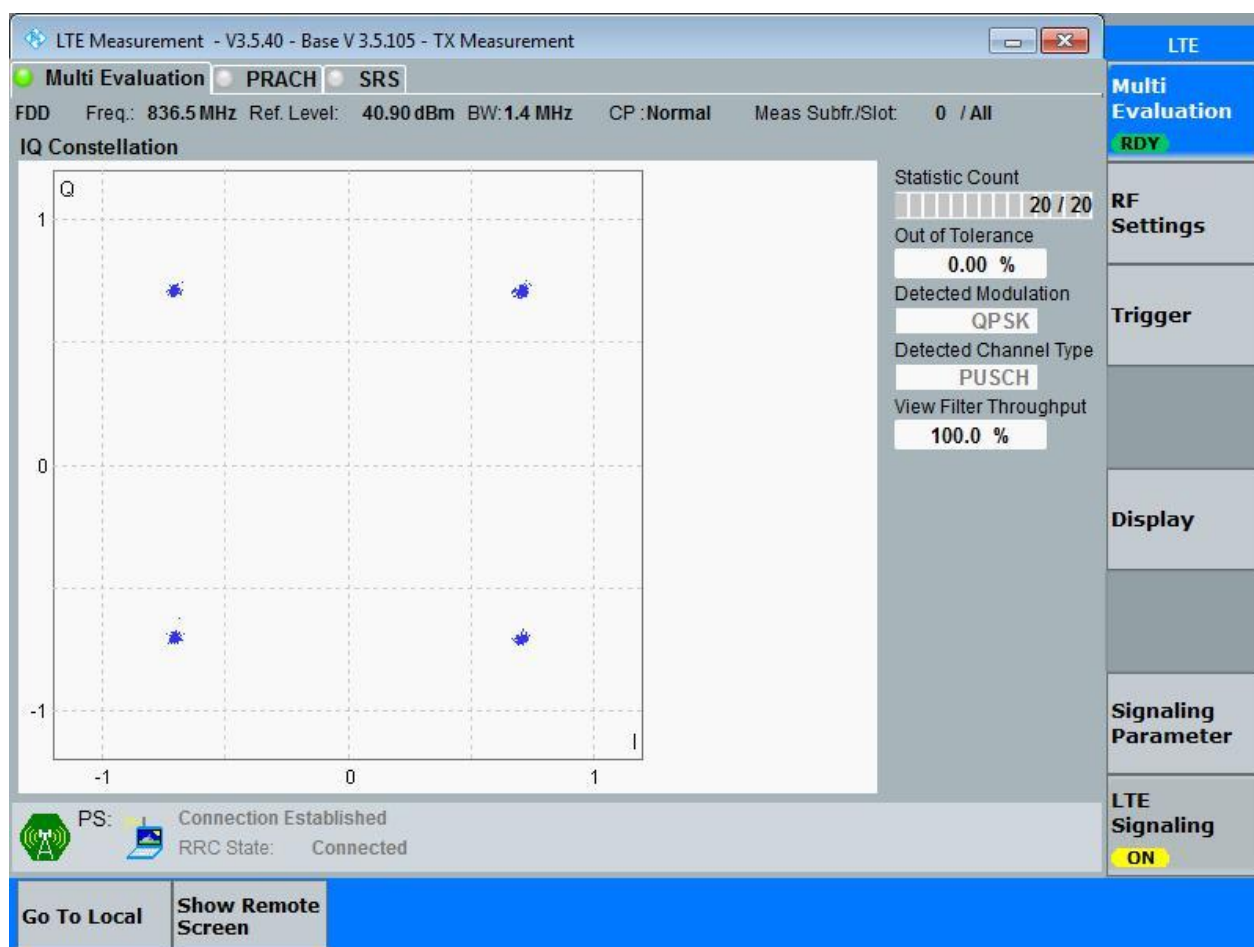
3.1.1 Test Band = BAND5

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

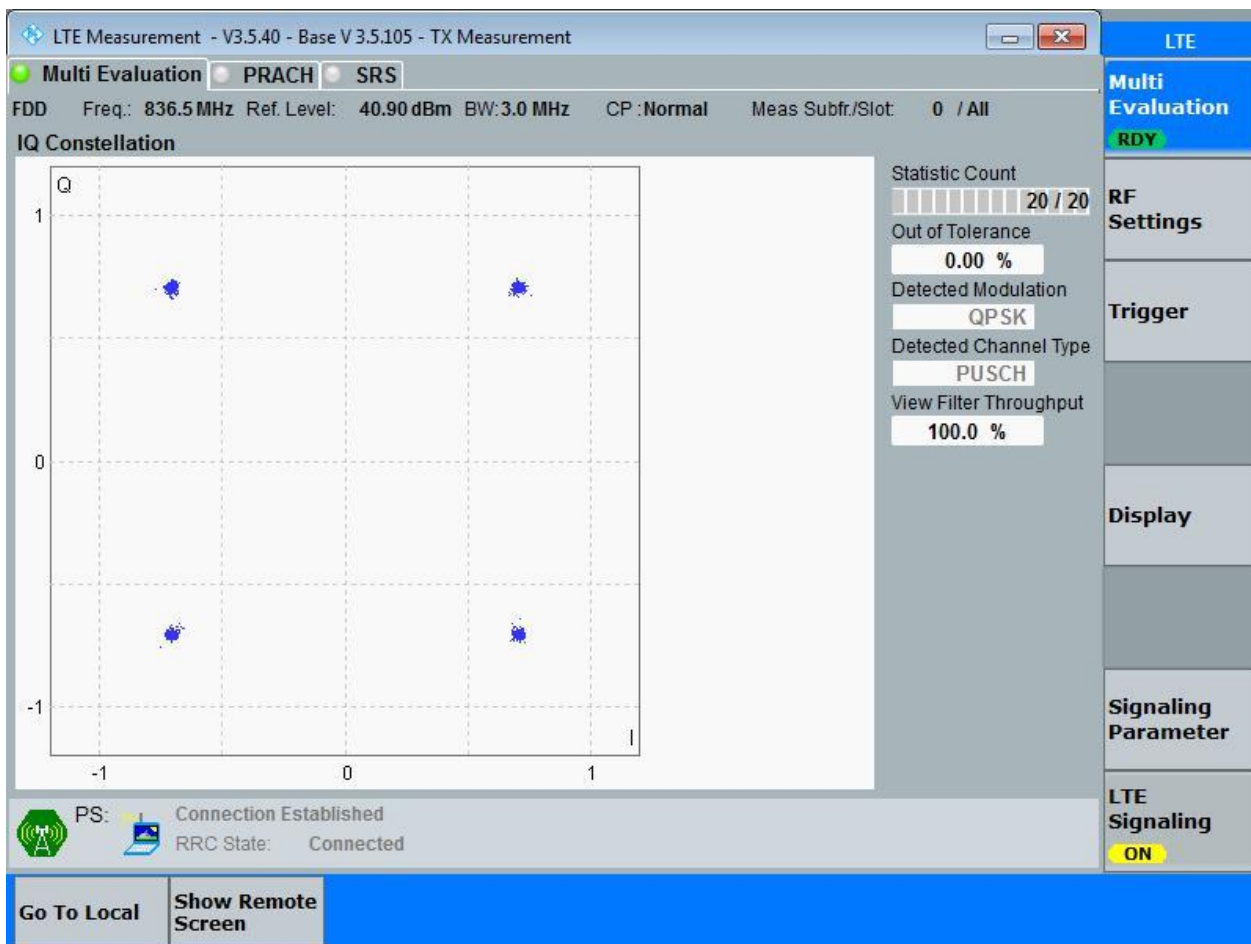
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

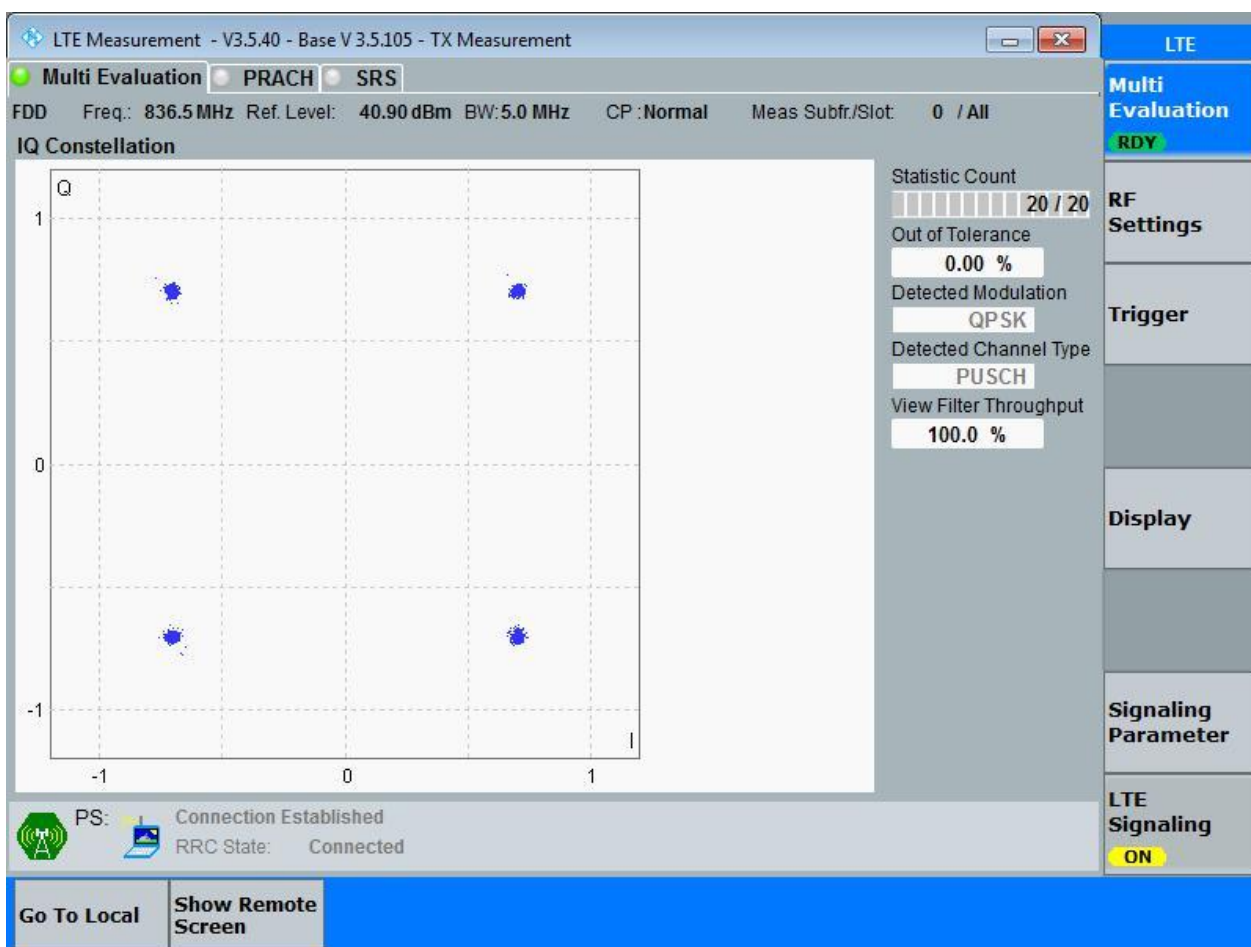
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

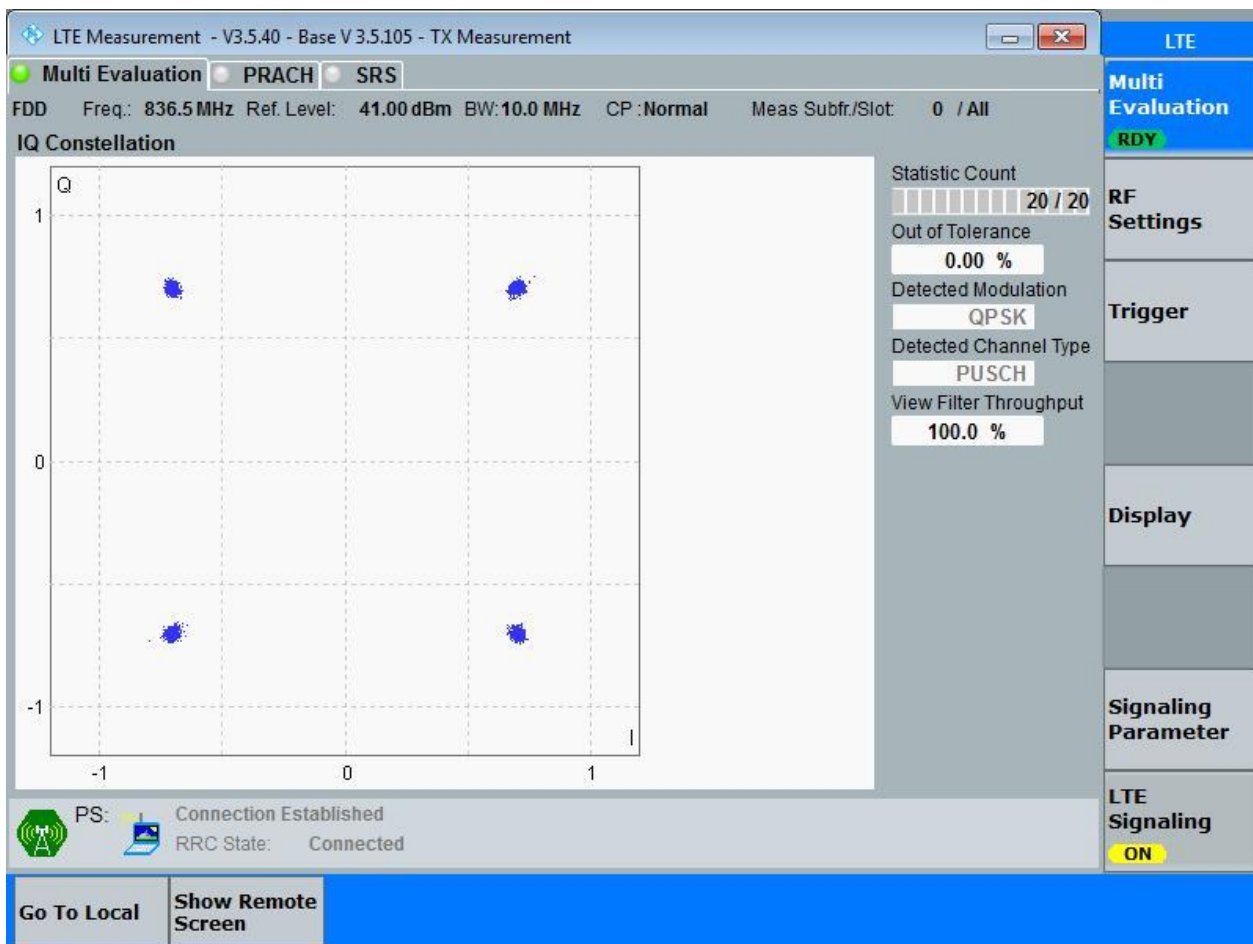
3.1.1.1.3.1.1 Test RB = RB25#0



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

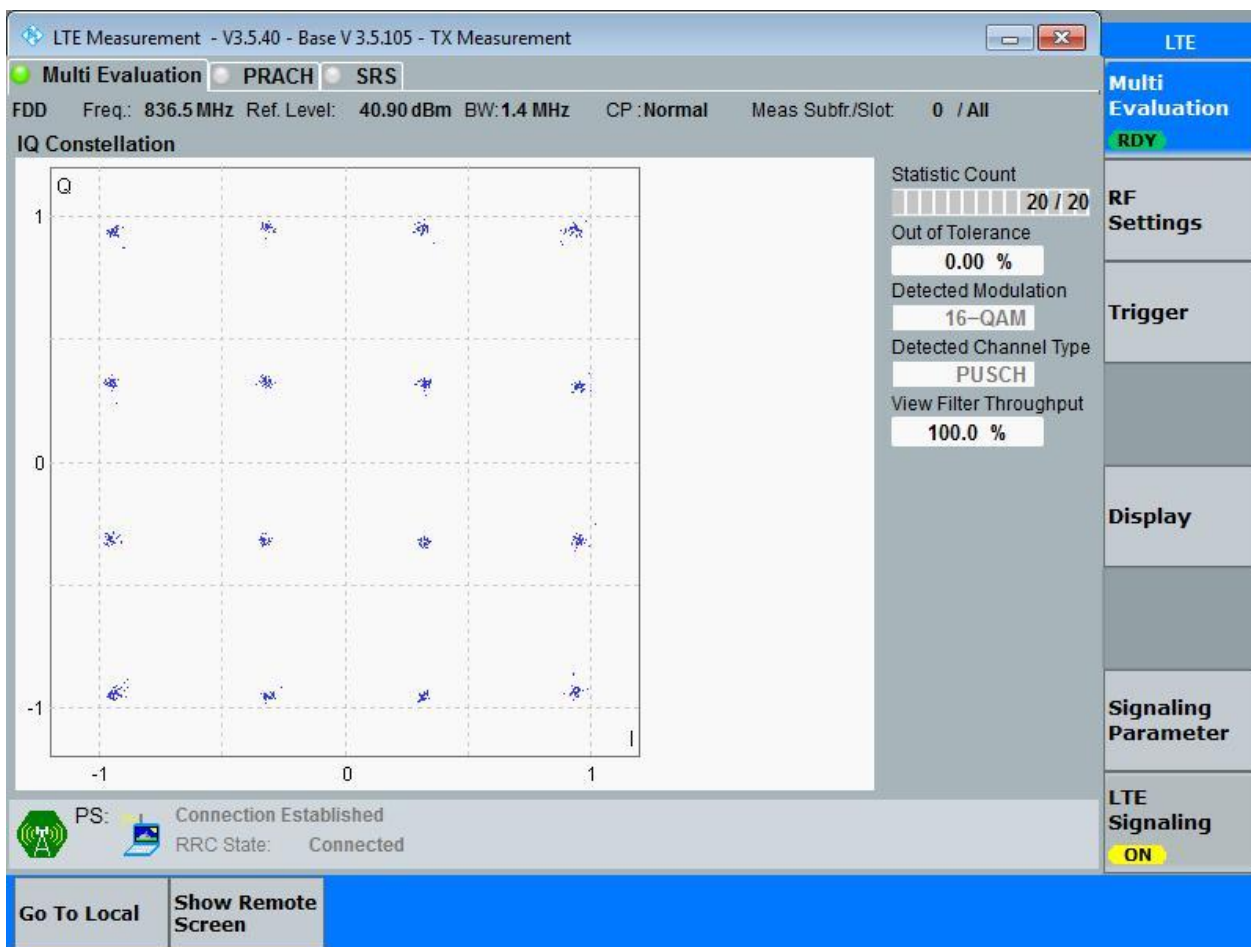


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

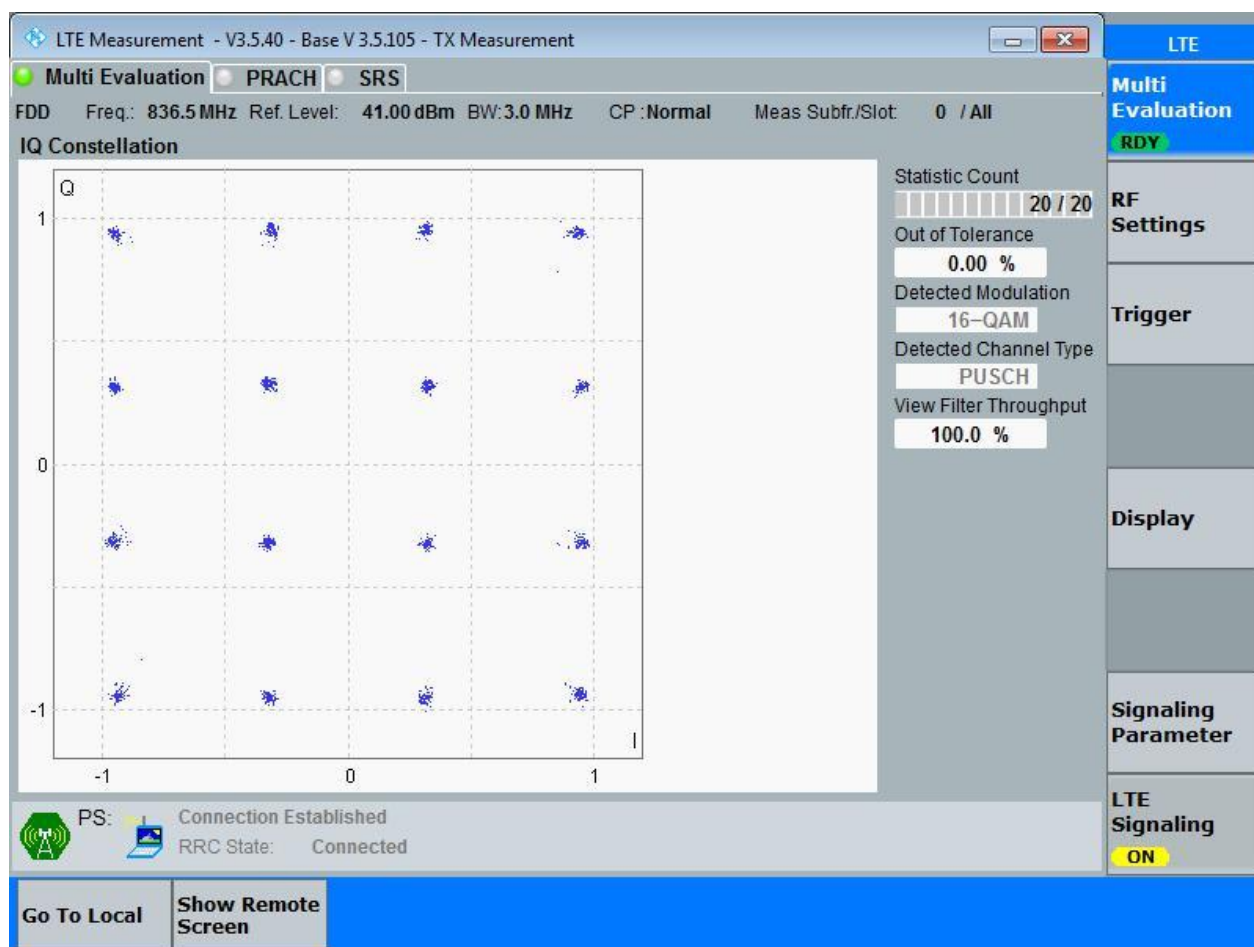
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

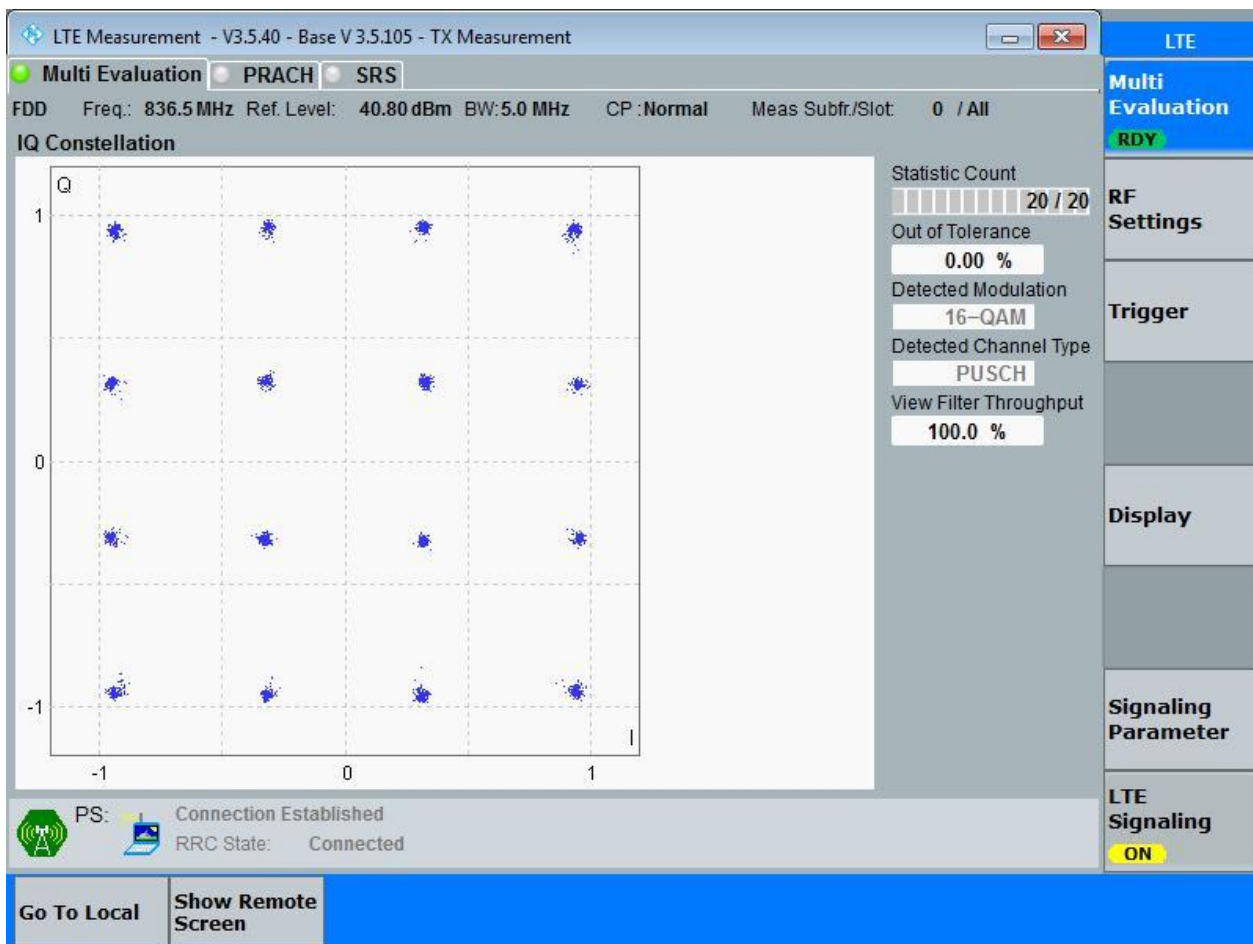
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

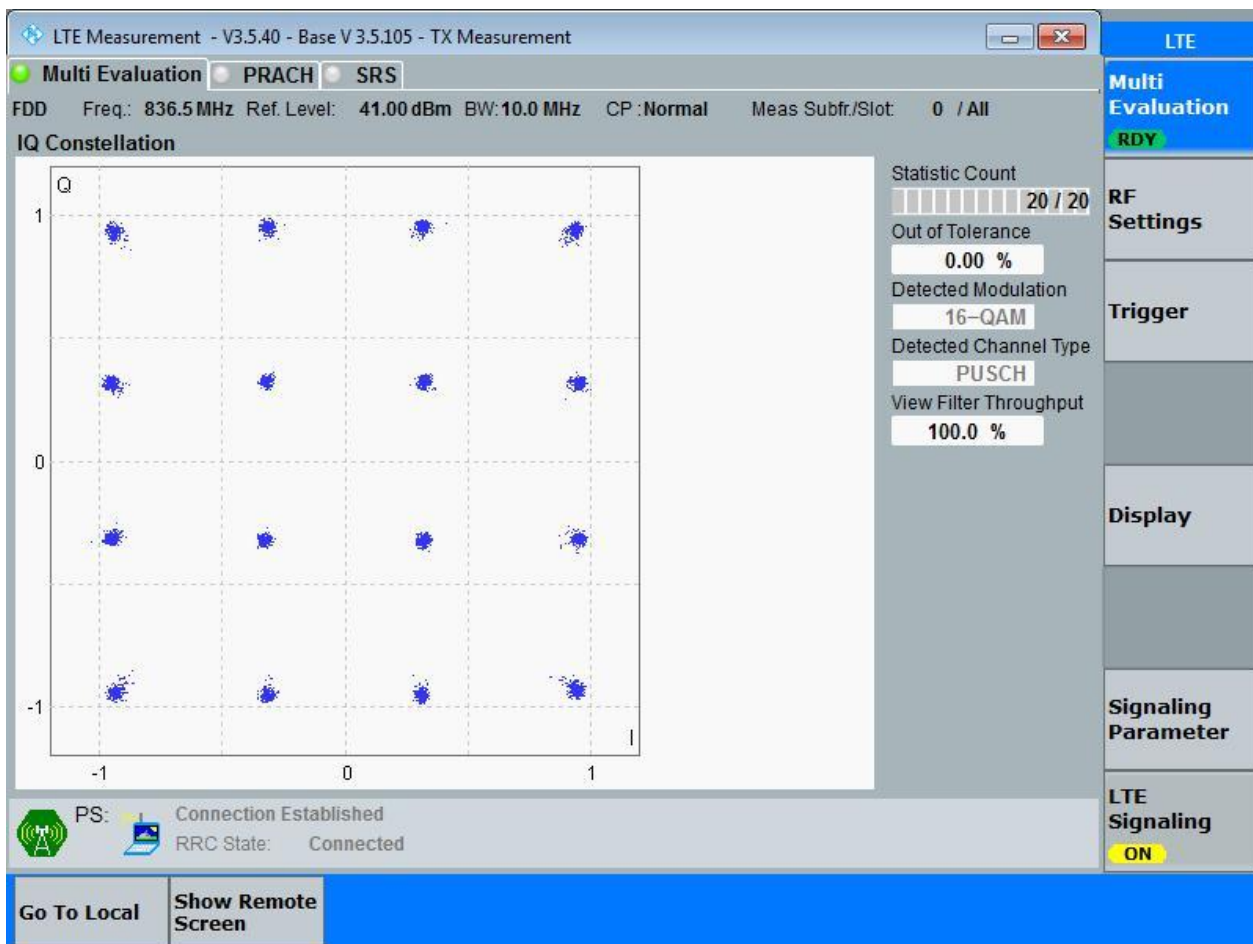
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.23	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.23	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.94	Pass
			HCH	RB15#0	2.70	2.93	Pass
		5	LCH	RB25#0	4.50	4.98	Pass
			MCH	RB25#0	4.52	4.99	Pass
			HCH	RB25#0	4.50	4.86	Pass
		10	LCH	RB50#0	8.99	9.62	Pass
			MCH	RB50#0	9.00	9.63	Pass
			HCH	RB50#0	8.92	9.51	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.22	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.23	Pass
		3	LCH	RB15#0	2.70	2.94	Pass
			MCH	RB15#0	2.70	2.95	Pass
			HCH	RB15#0	2.71	2.94	Pass
		5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.49	4.85	Pass
		10	LCH	RB50#0	8.98	9.64	Pass
			MCH	RB50#0	9.02	9.74	Pass
			HCH	RB50#0	8.94	9.54	Pass



Part II - Test Plots

4.1 For LTE

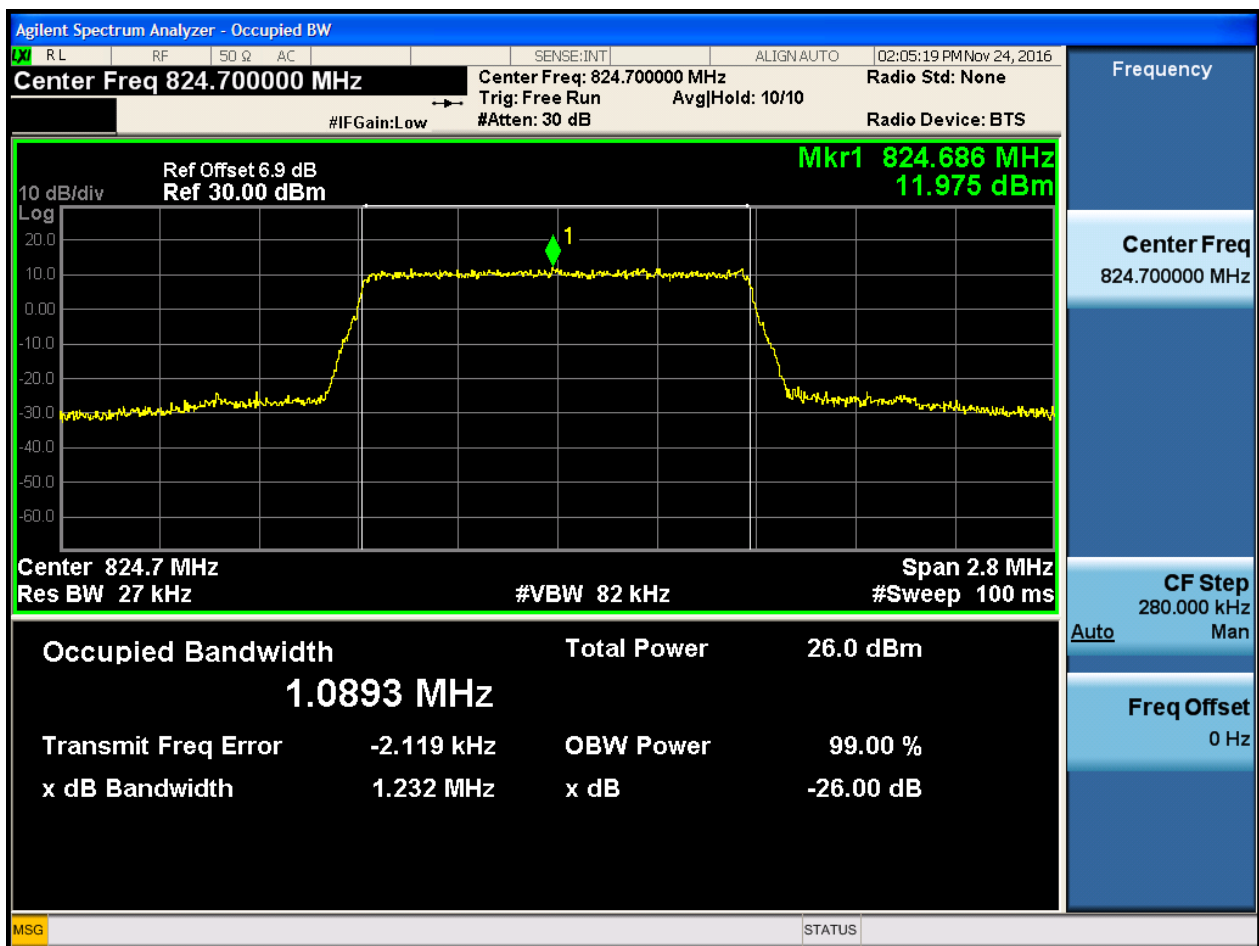
4.1.1 Test Band = BAND5

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

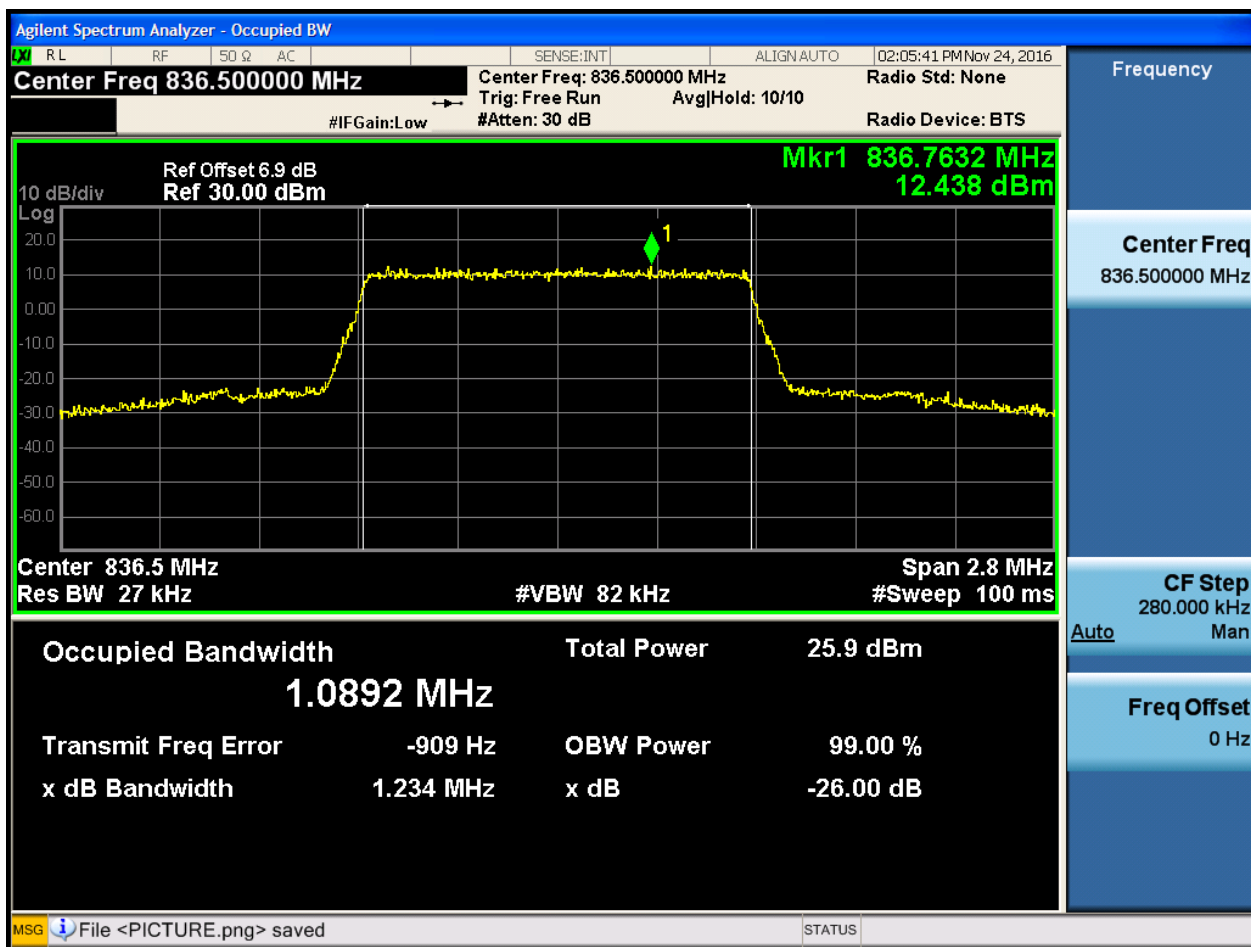
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB6#0



4.1.1.1.1.2 Test Channel = MCH

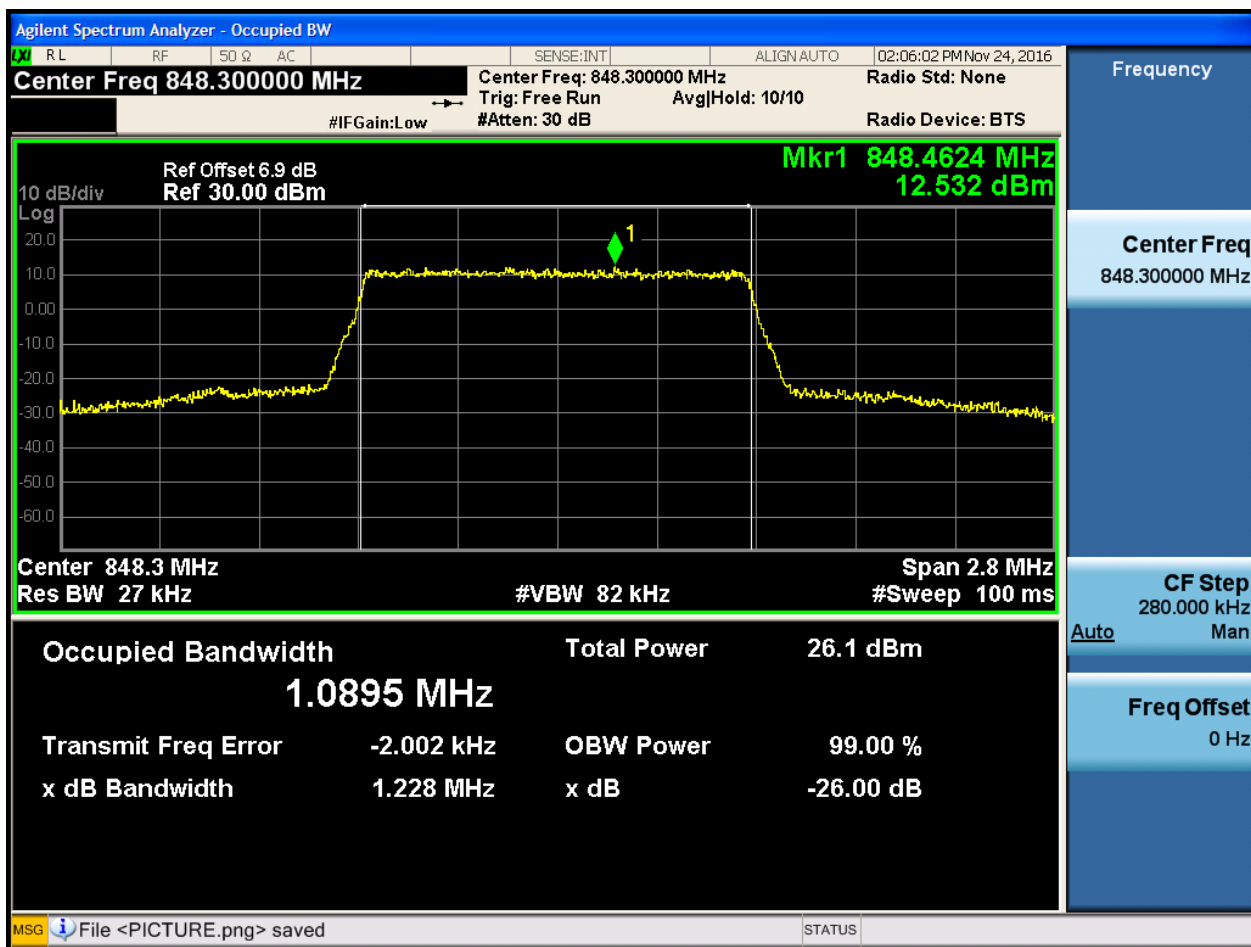
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

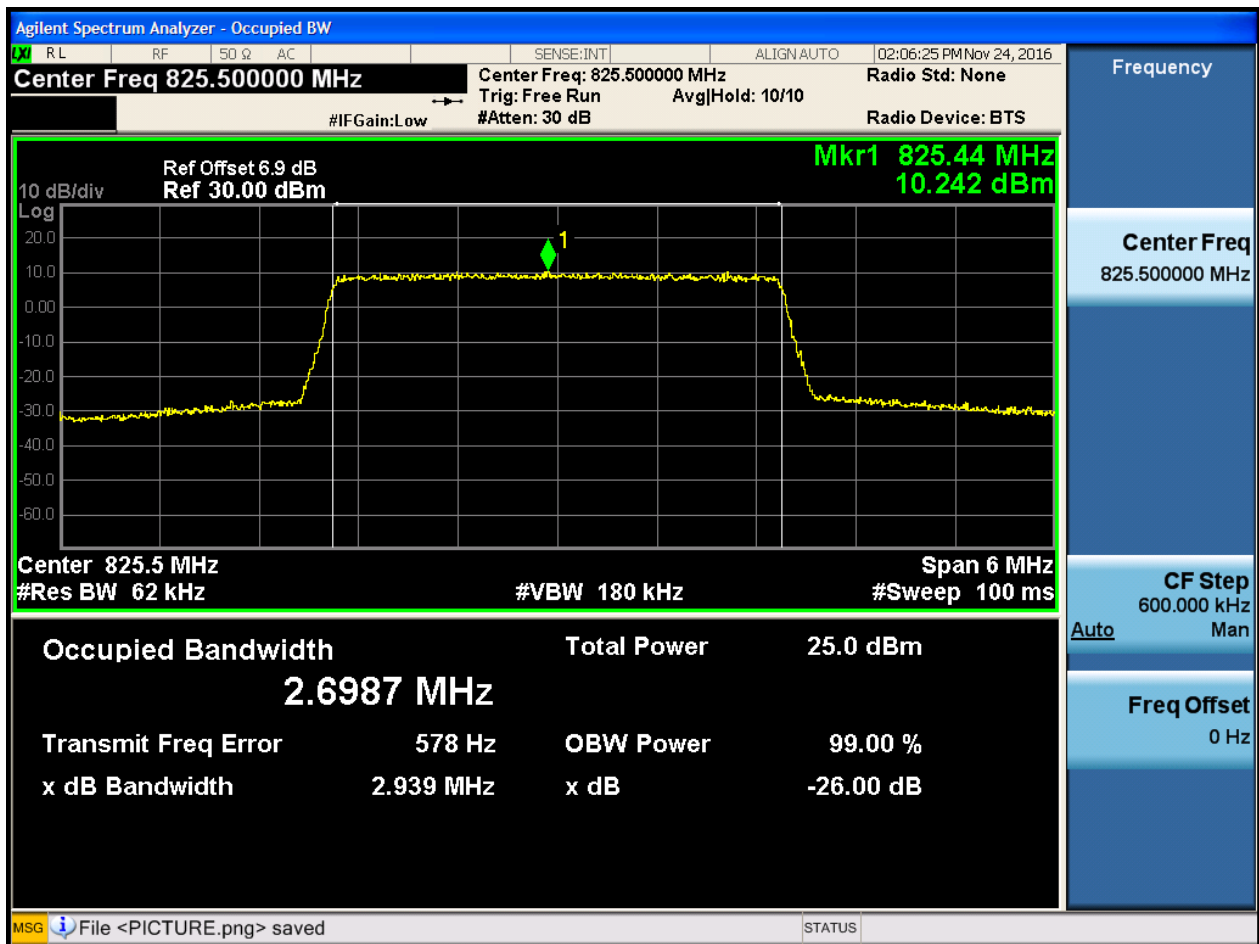




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

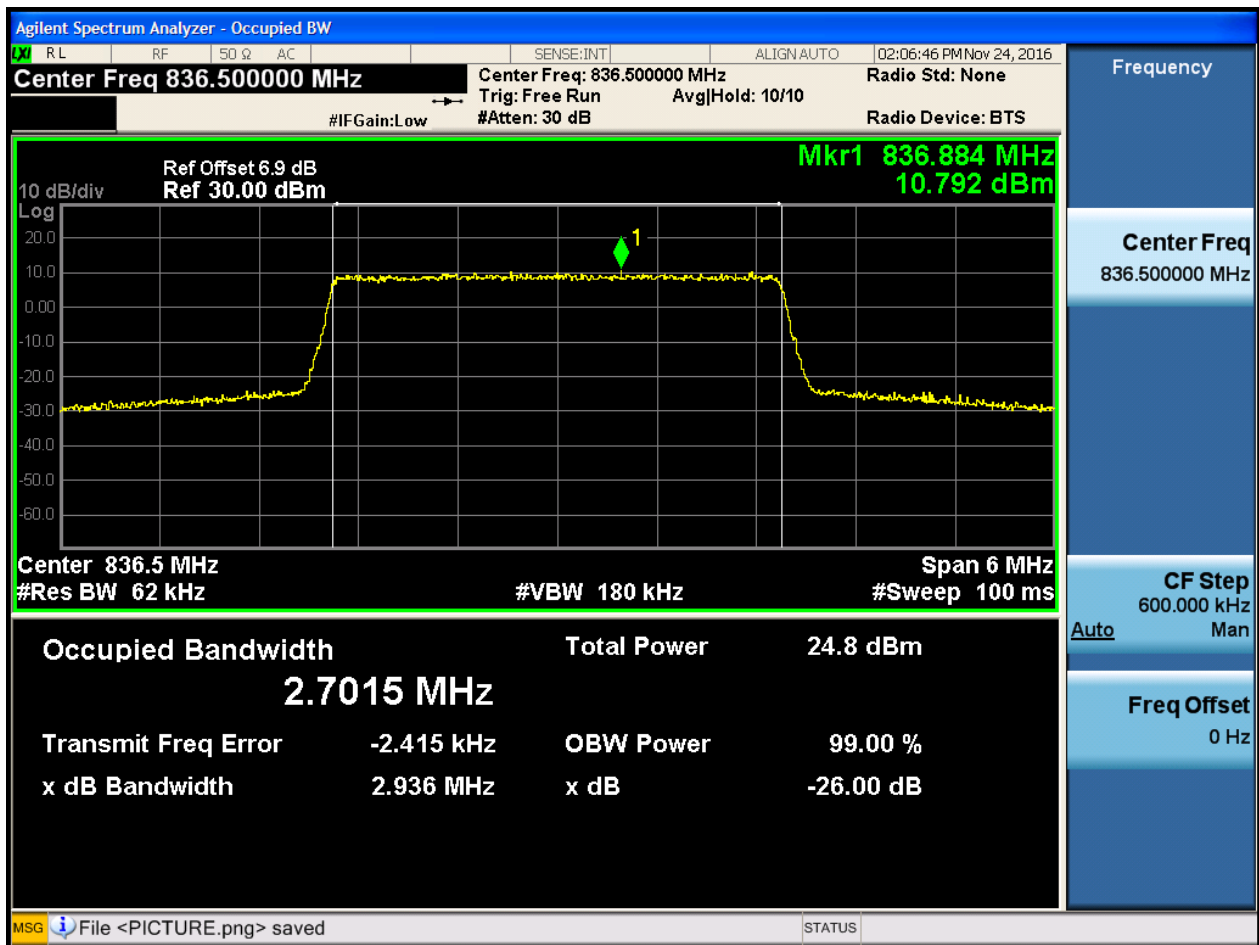
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

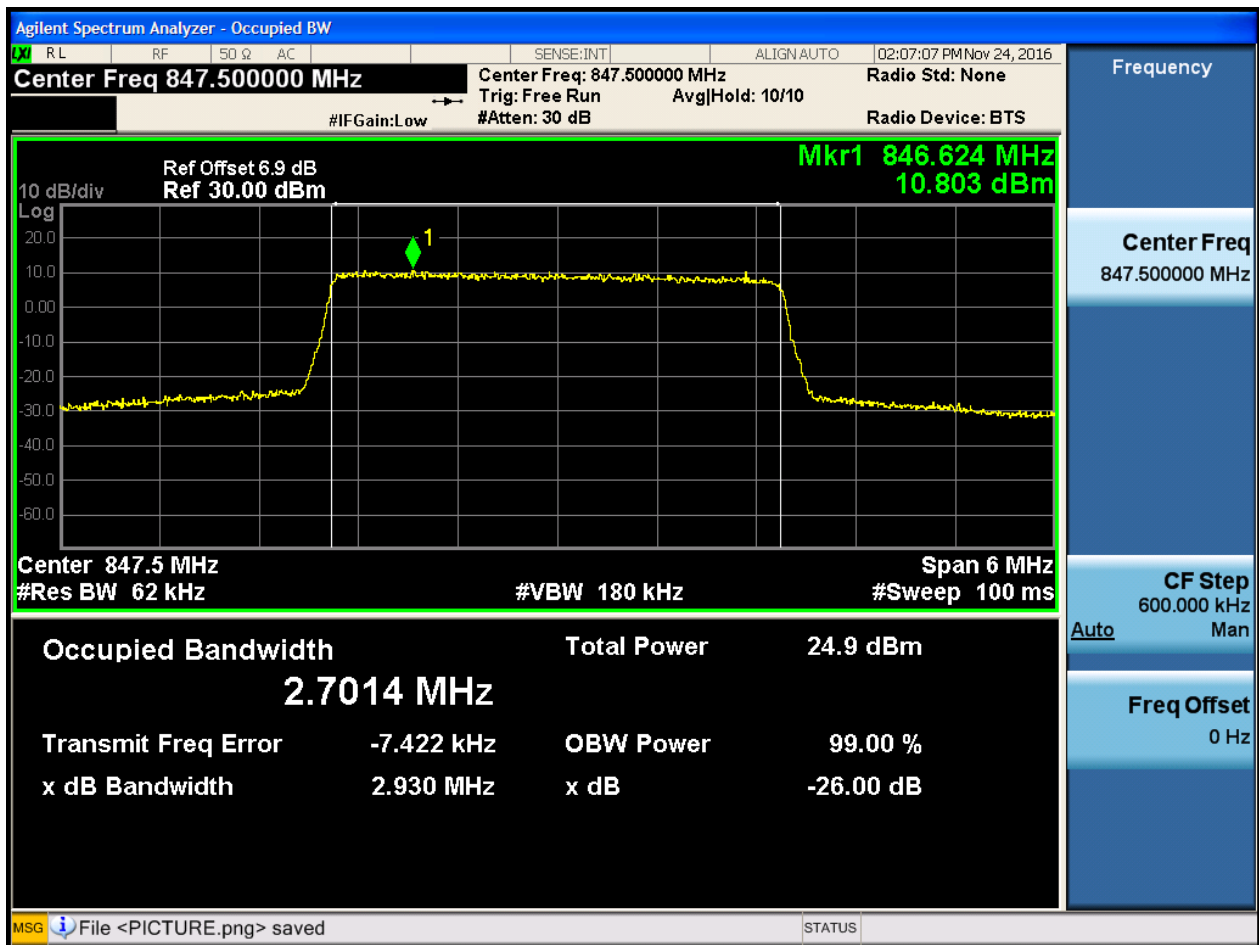
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

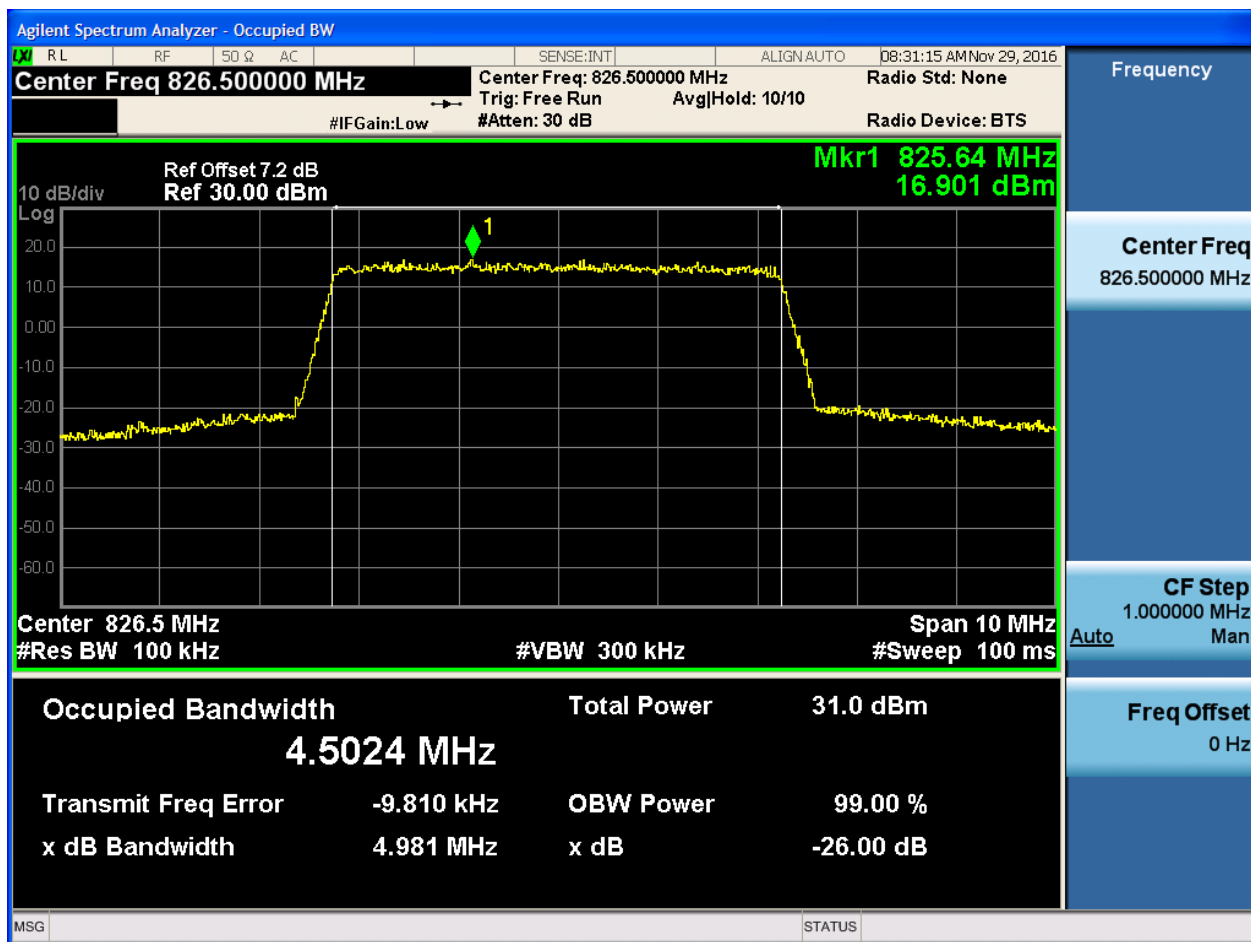




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

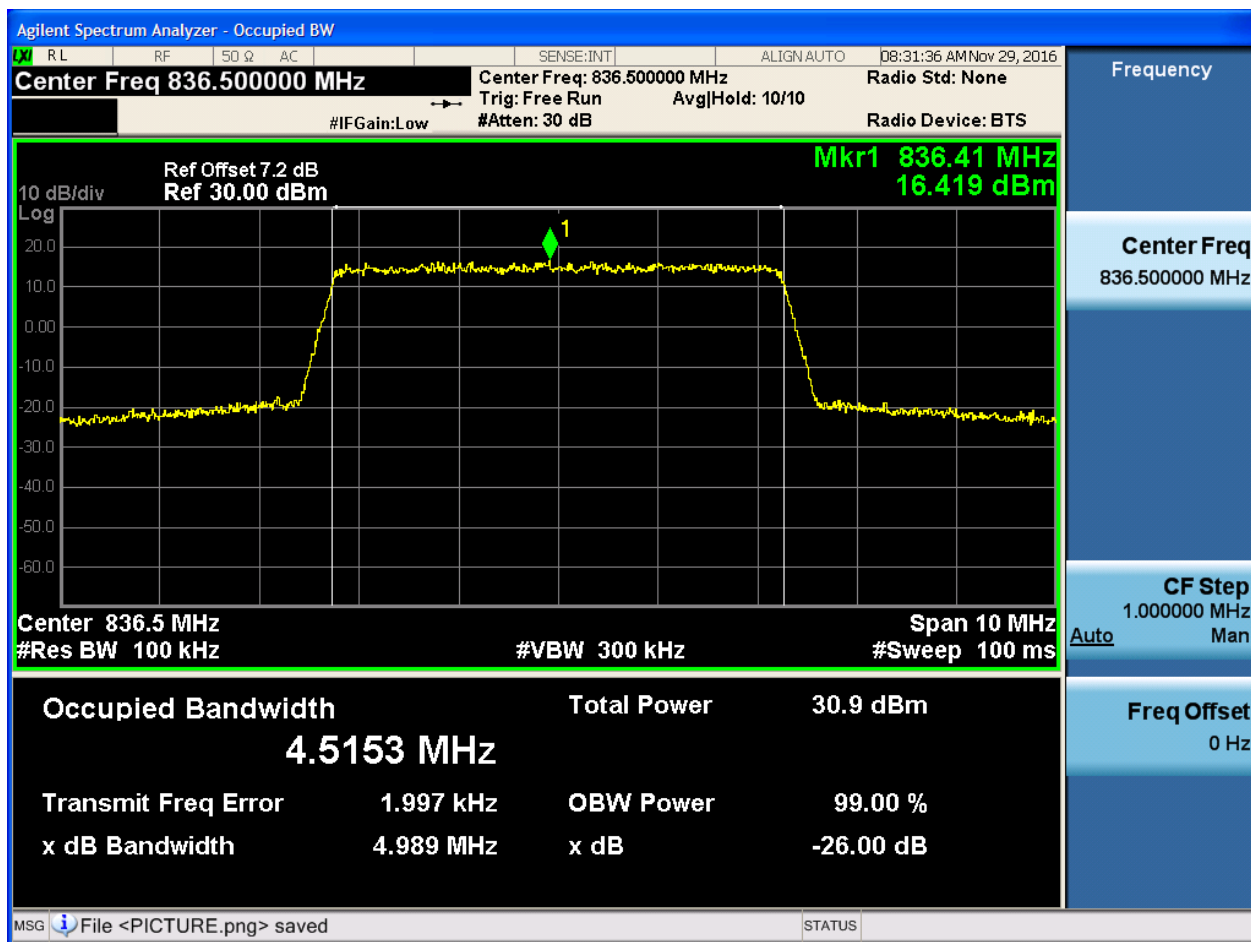
4.1.1.1.3.1.1 Test RB = RB25#0





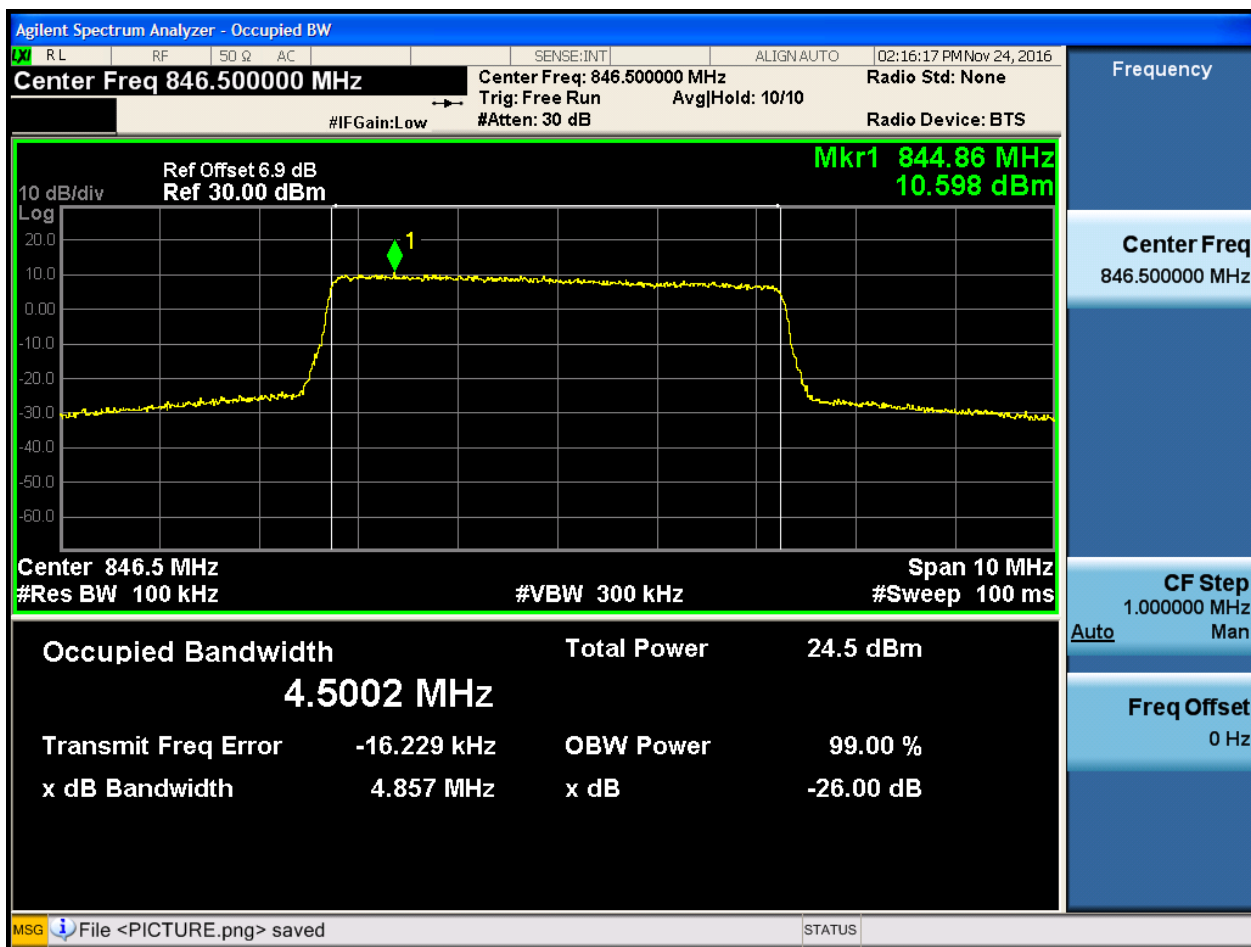
4.1.1.1.3.2 Test Channel = MCH

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

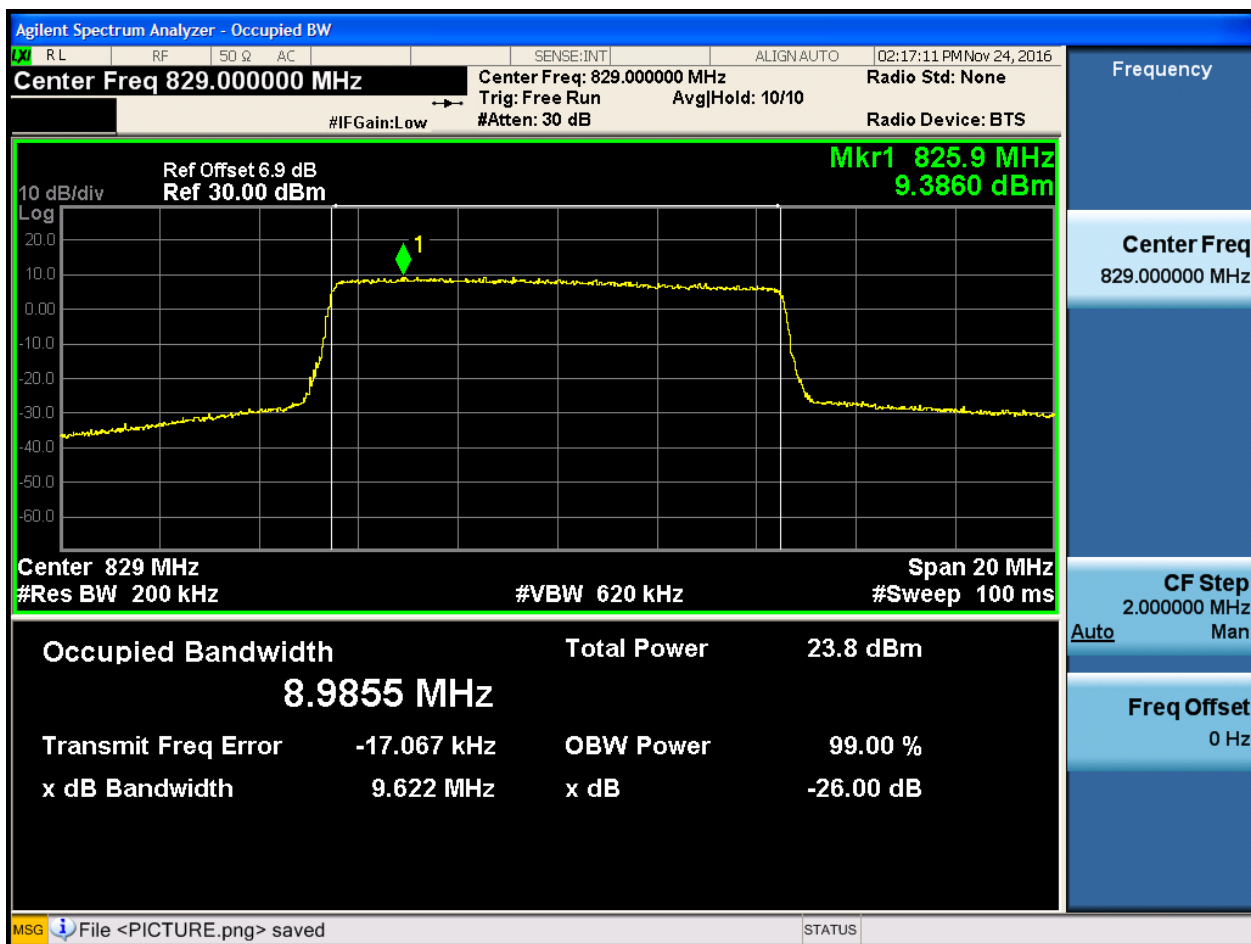




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

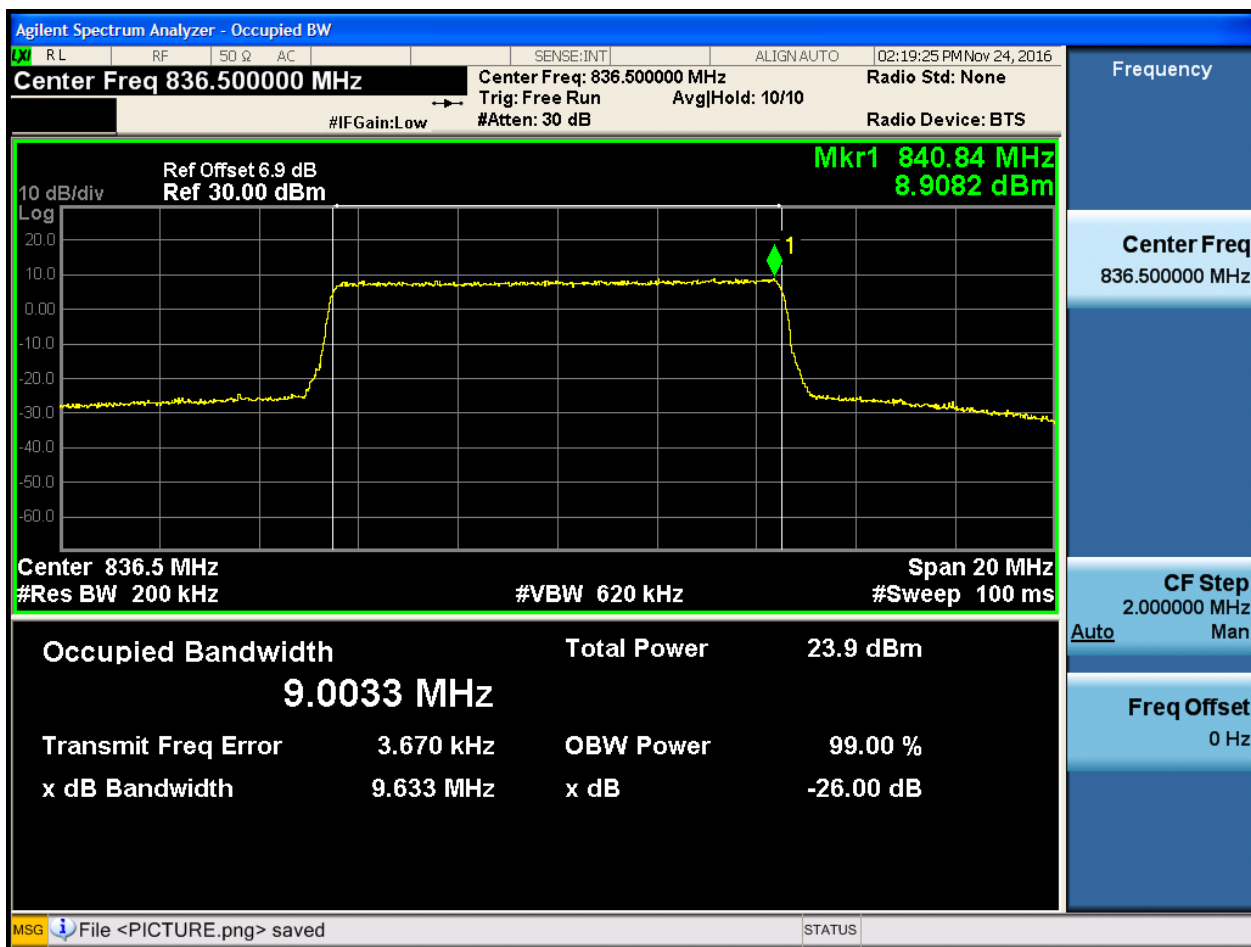
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

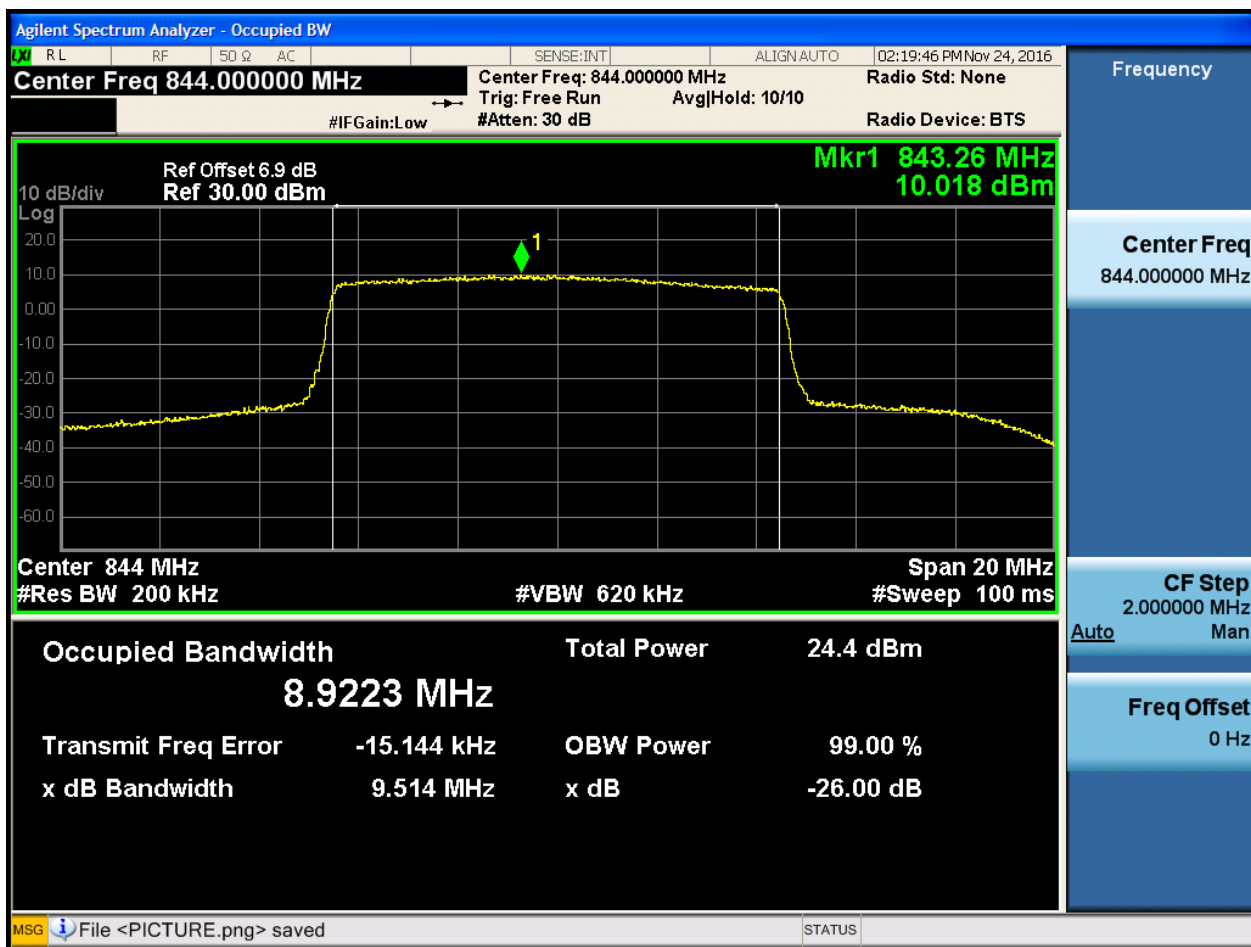
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



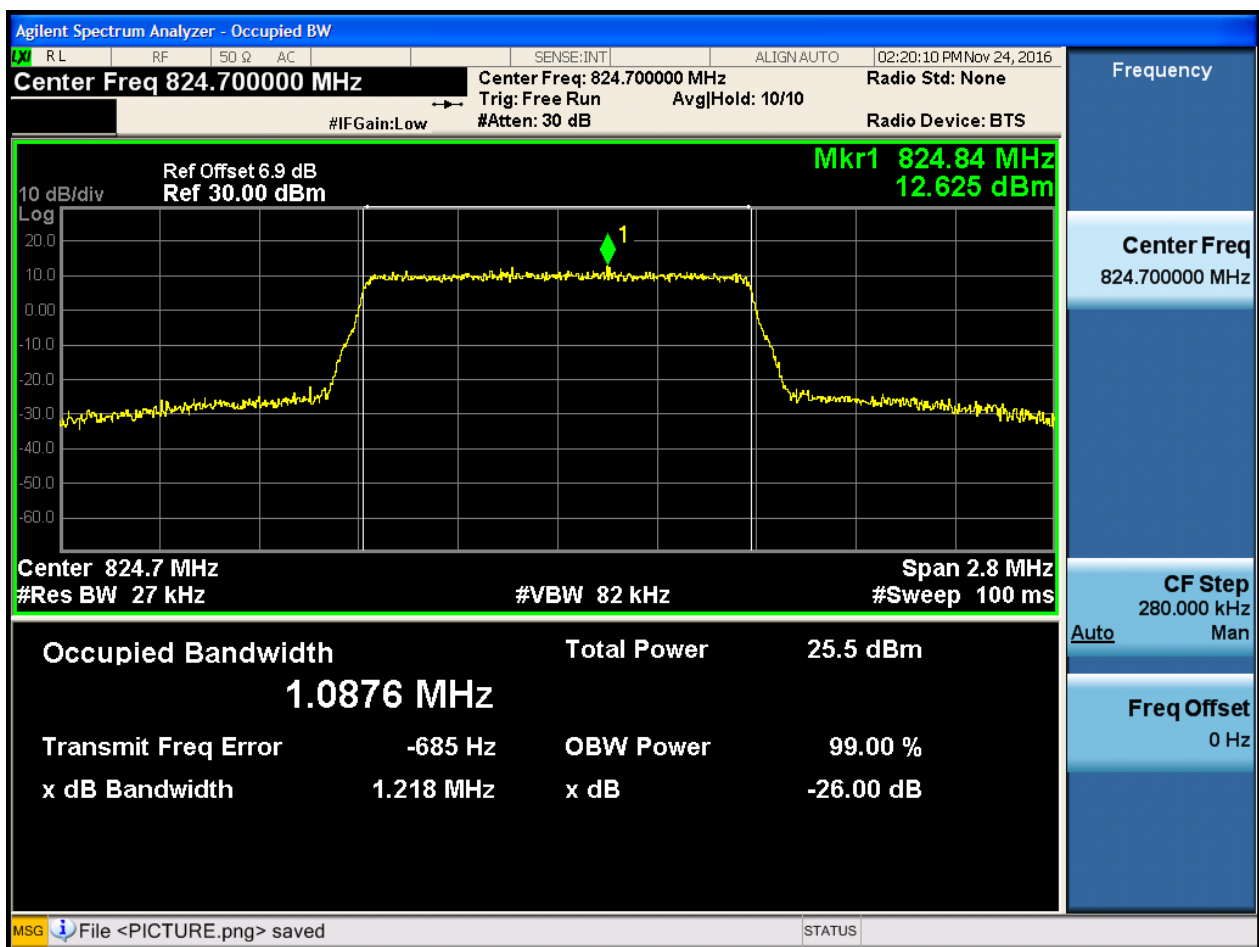


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

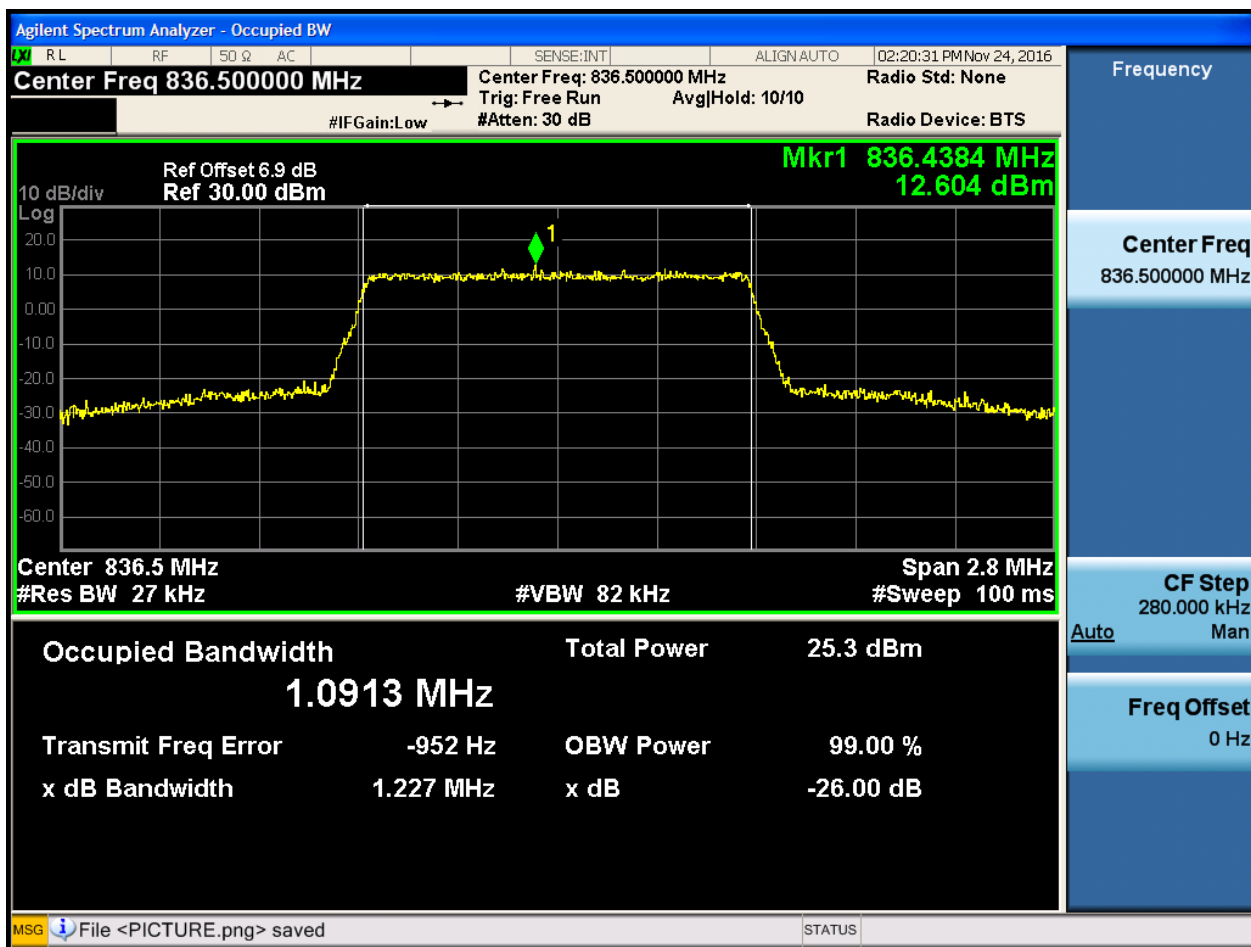
4.1.1.2.1.1.1 Test RB = RB6#0





4.1.1.2.1.2 Test Channel = MCH

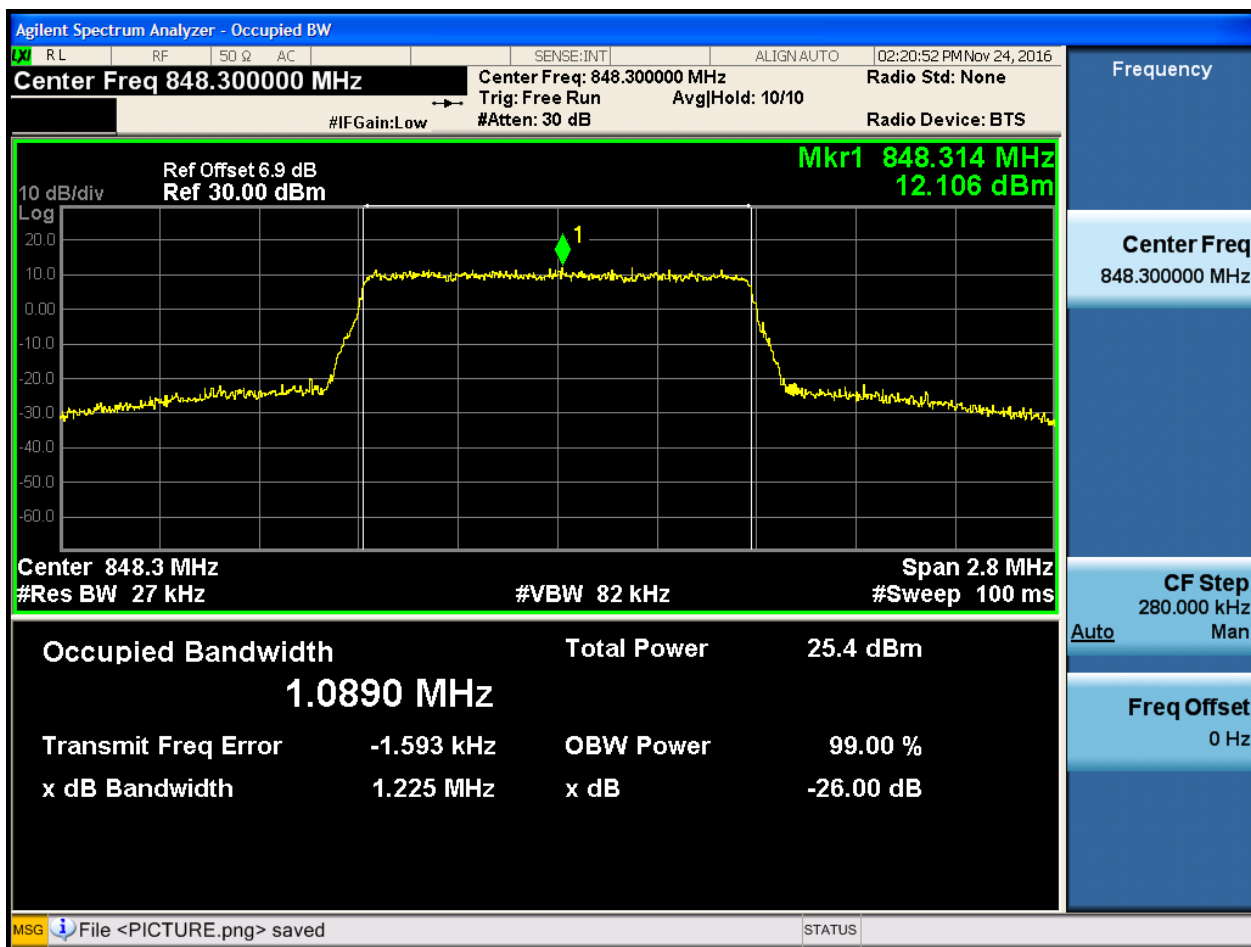
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

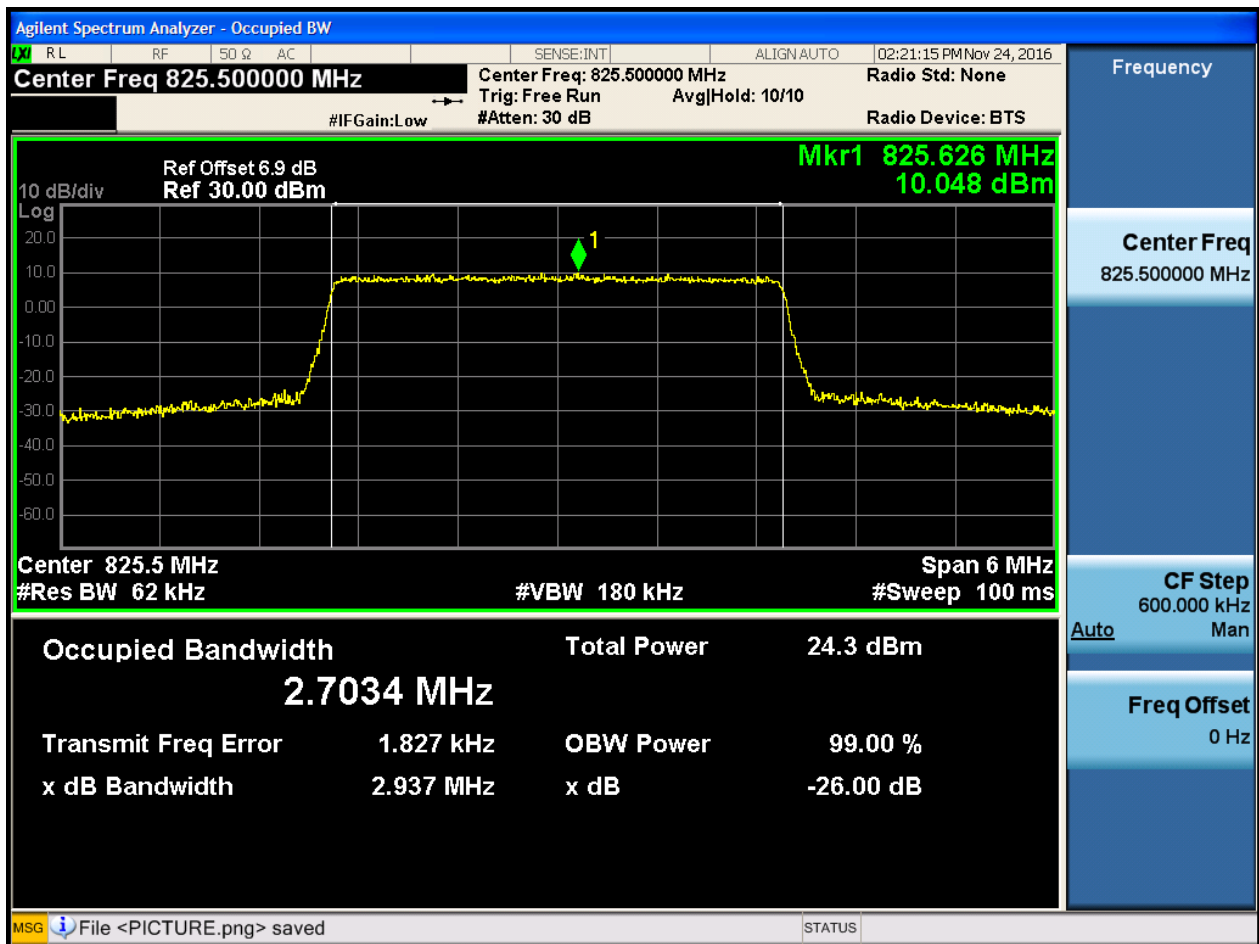




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

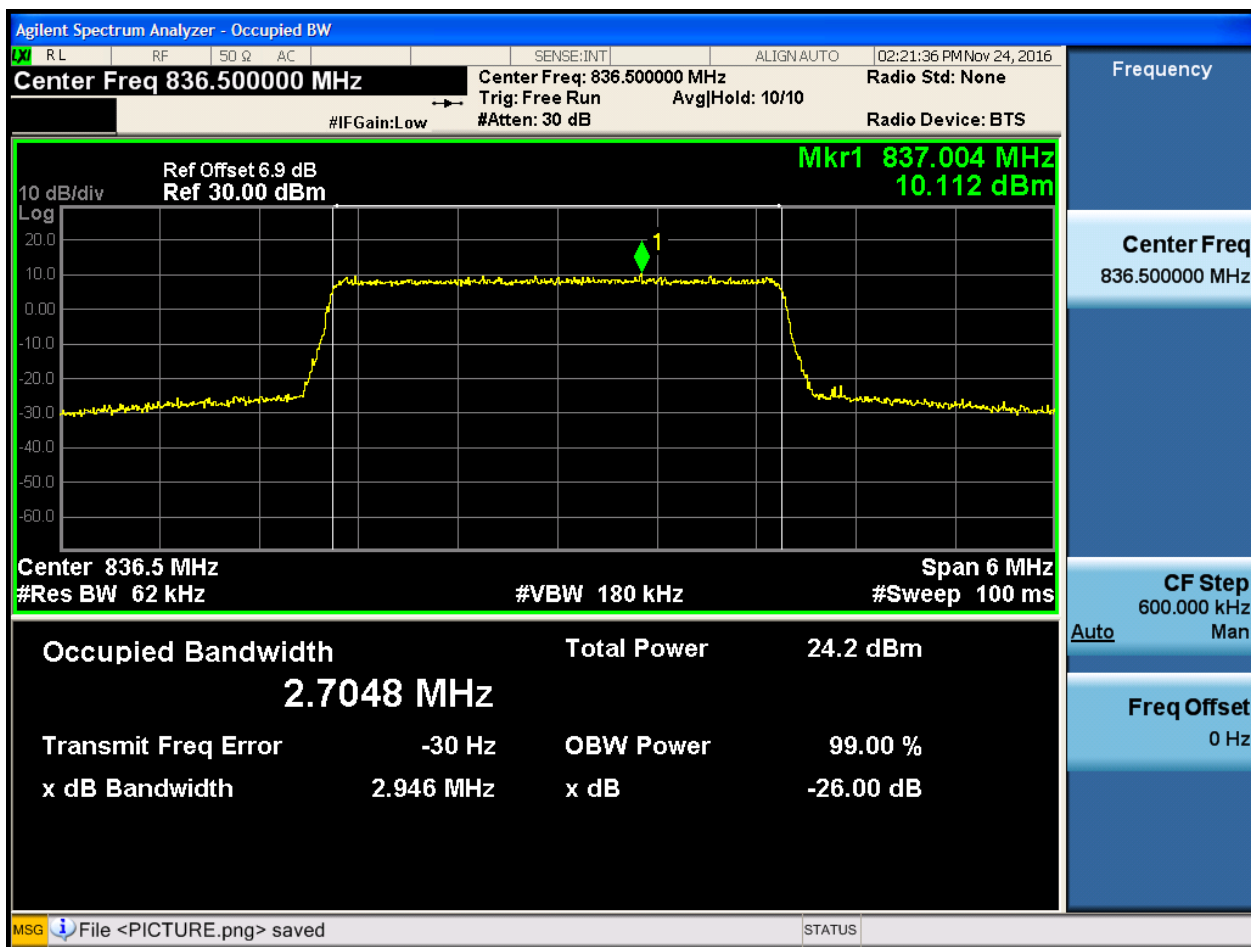
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

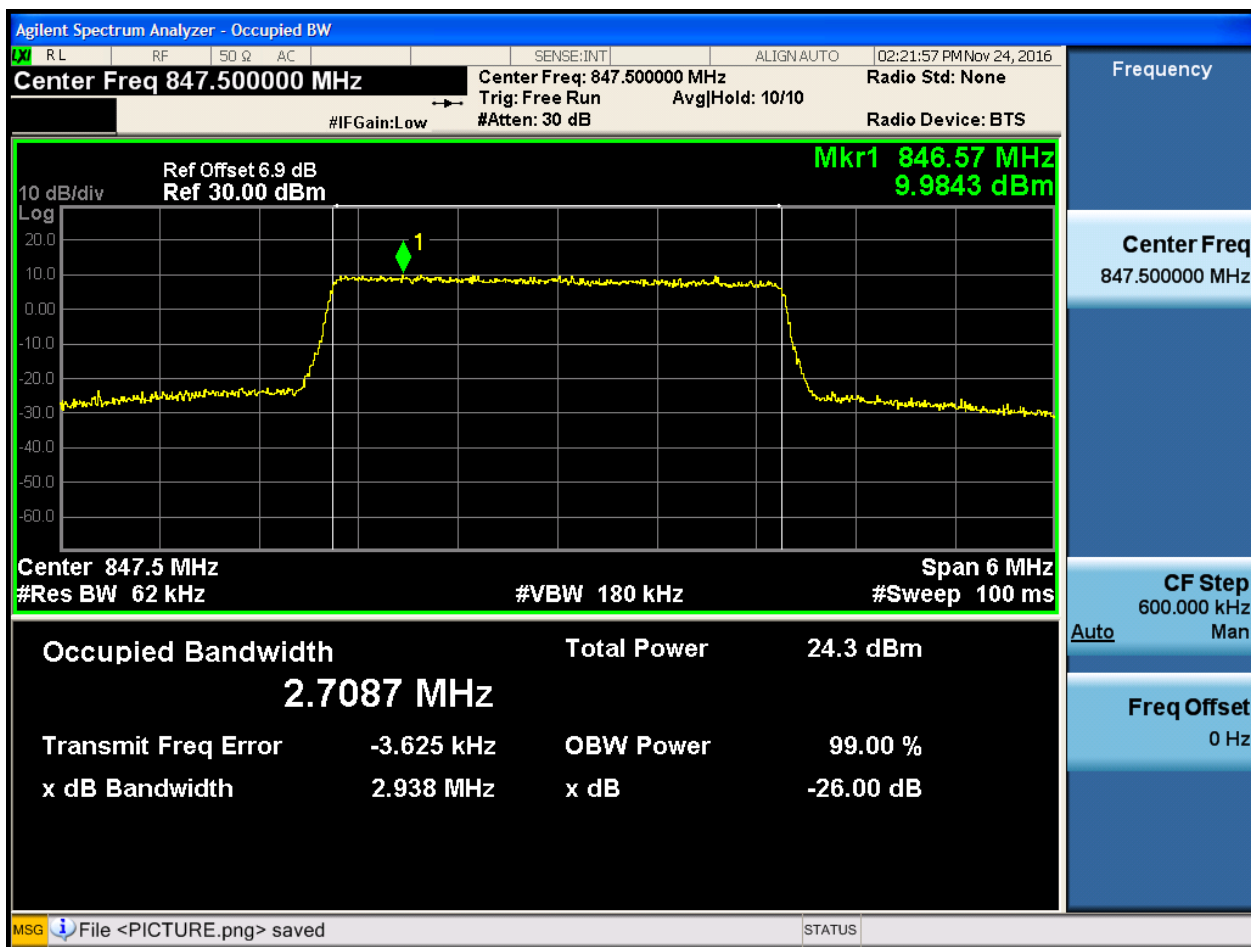
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

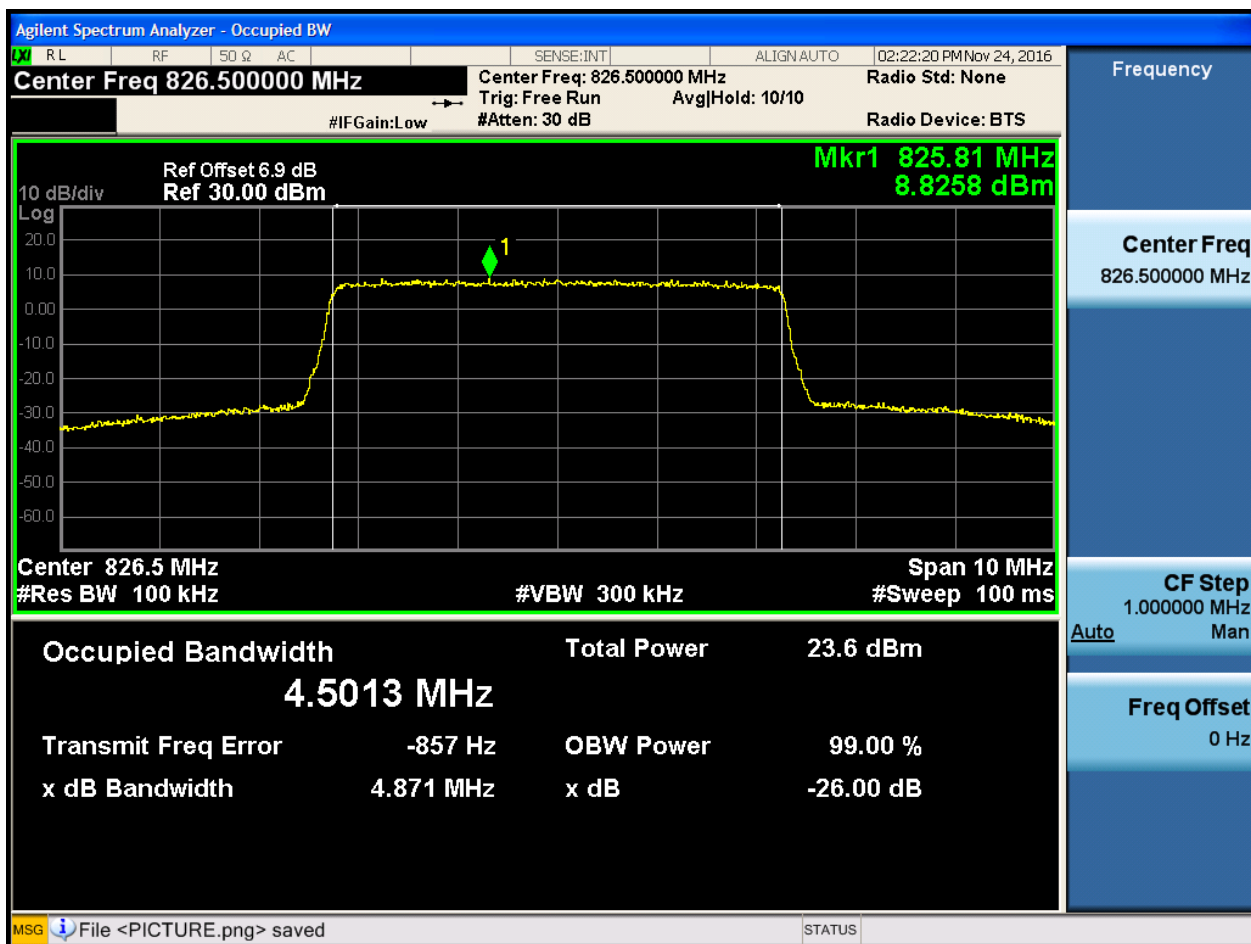




4.1.1.2.3 Test Bandwidth = 5

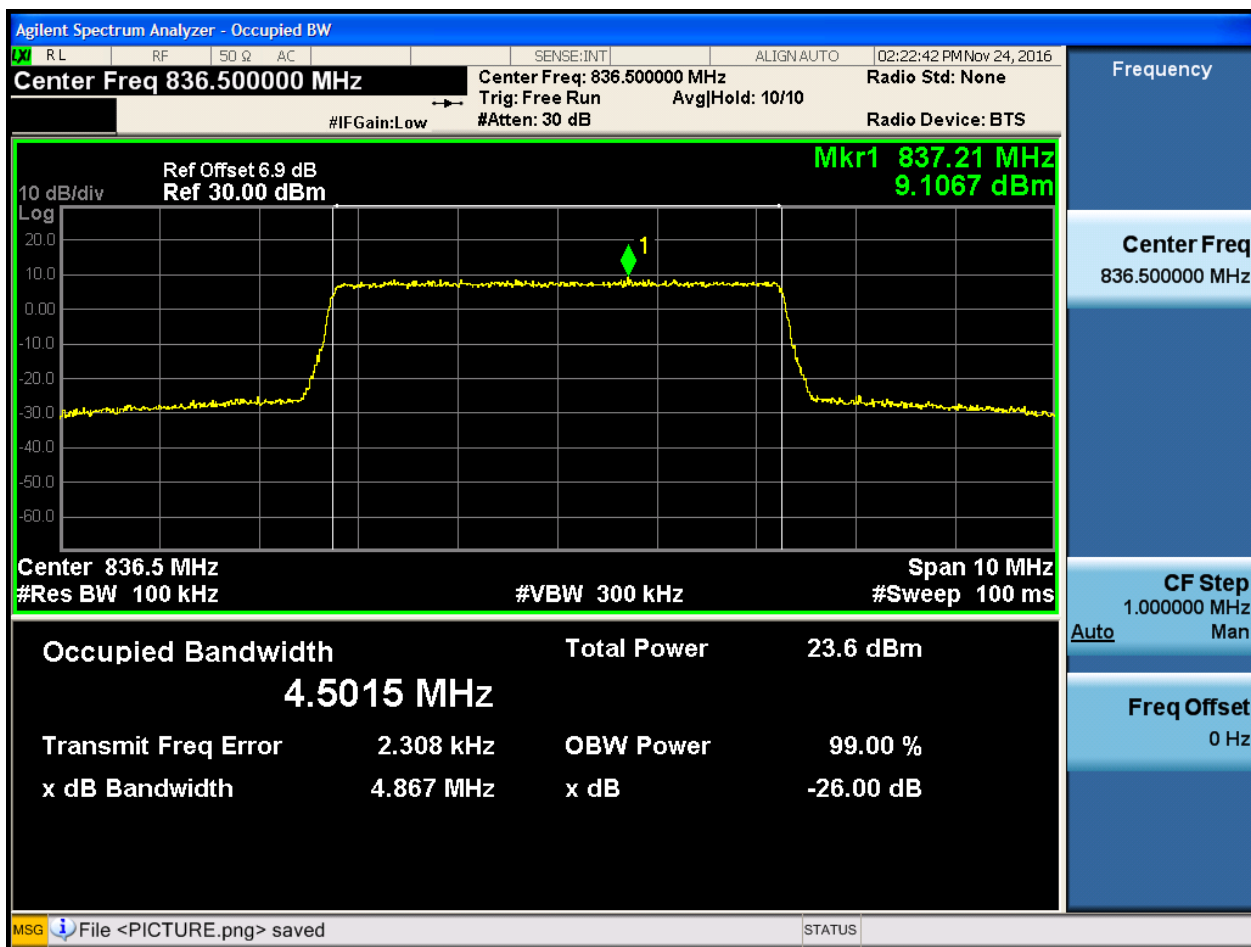
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



4.1.1.2.3.2 Test Channel = MCH

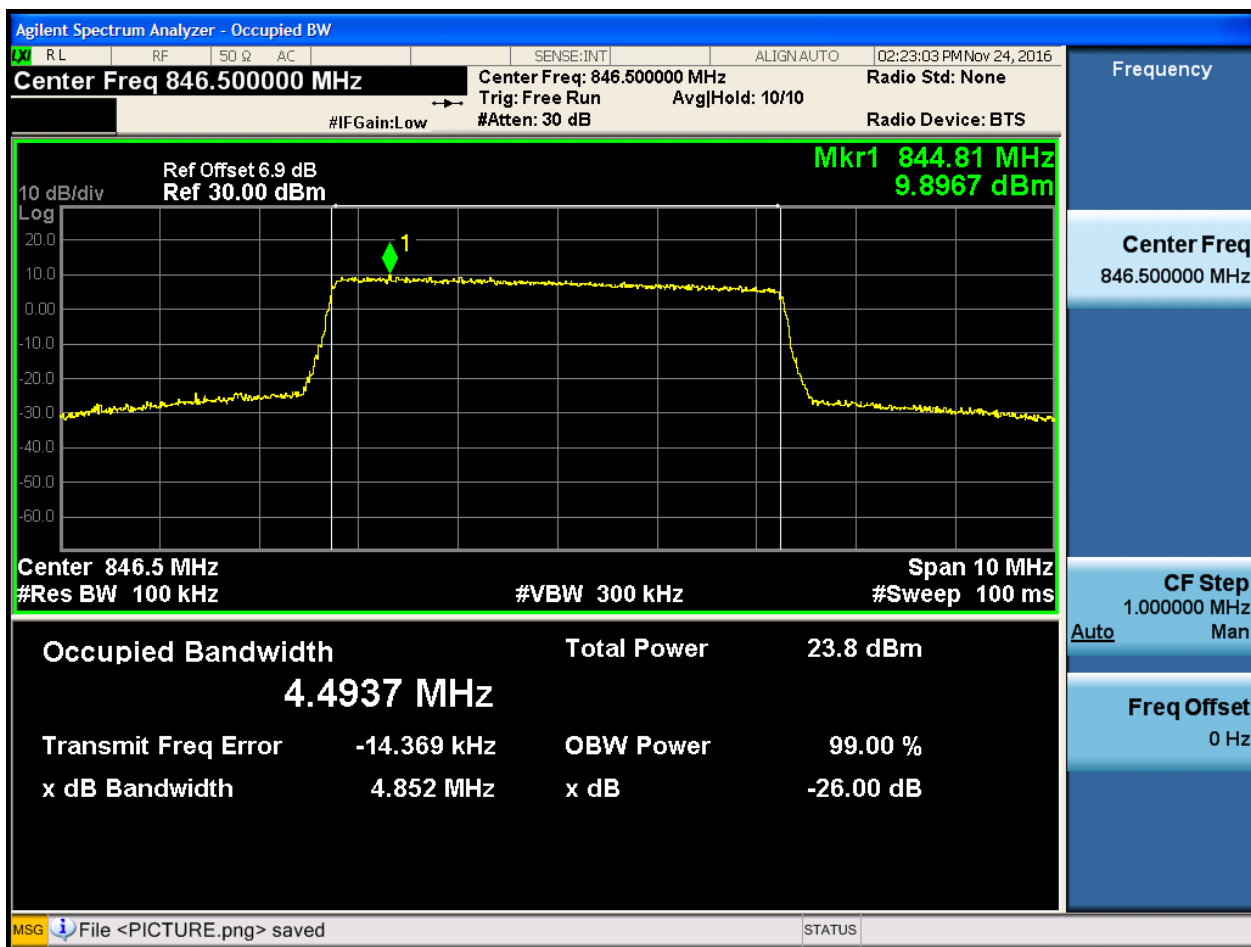
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

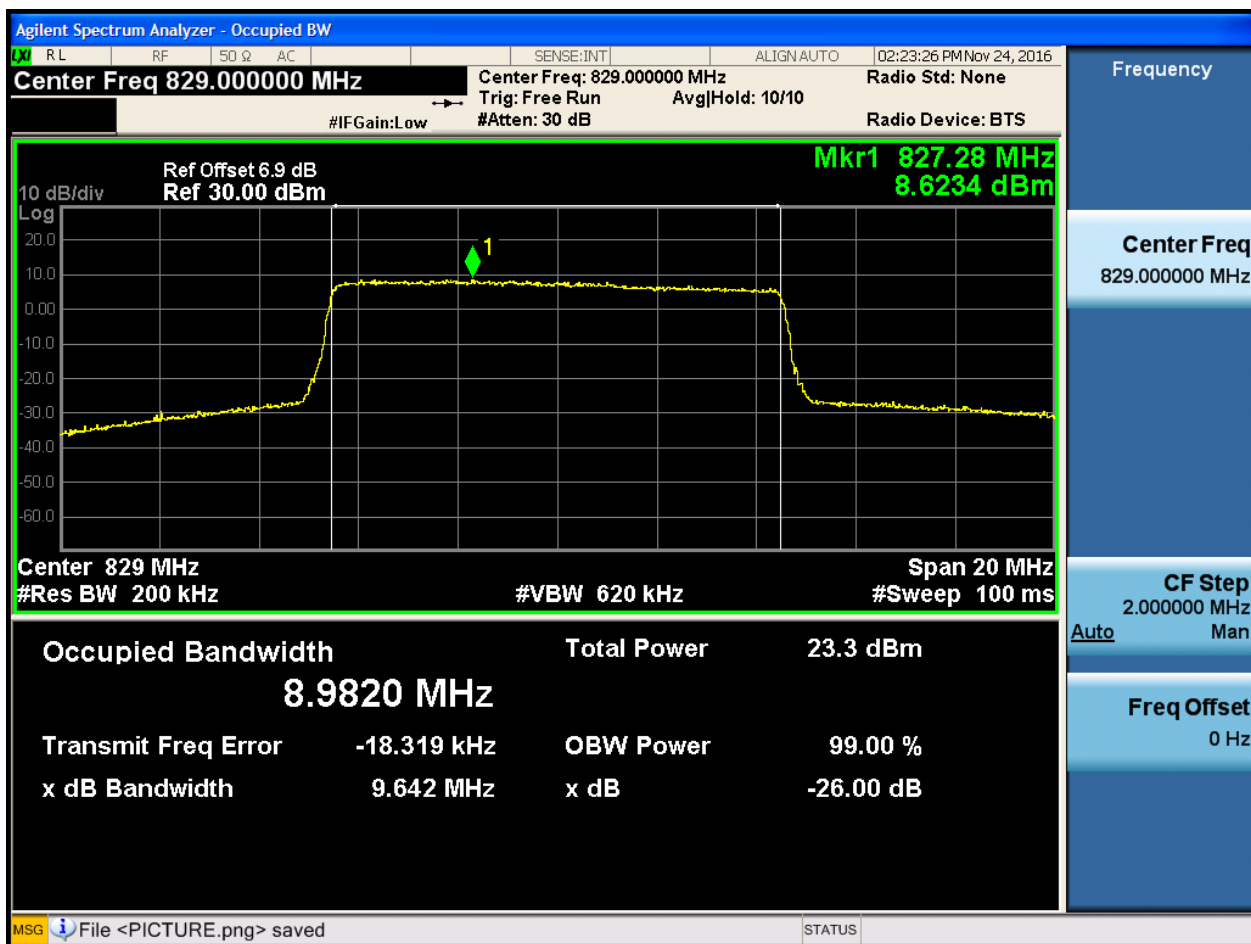




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

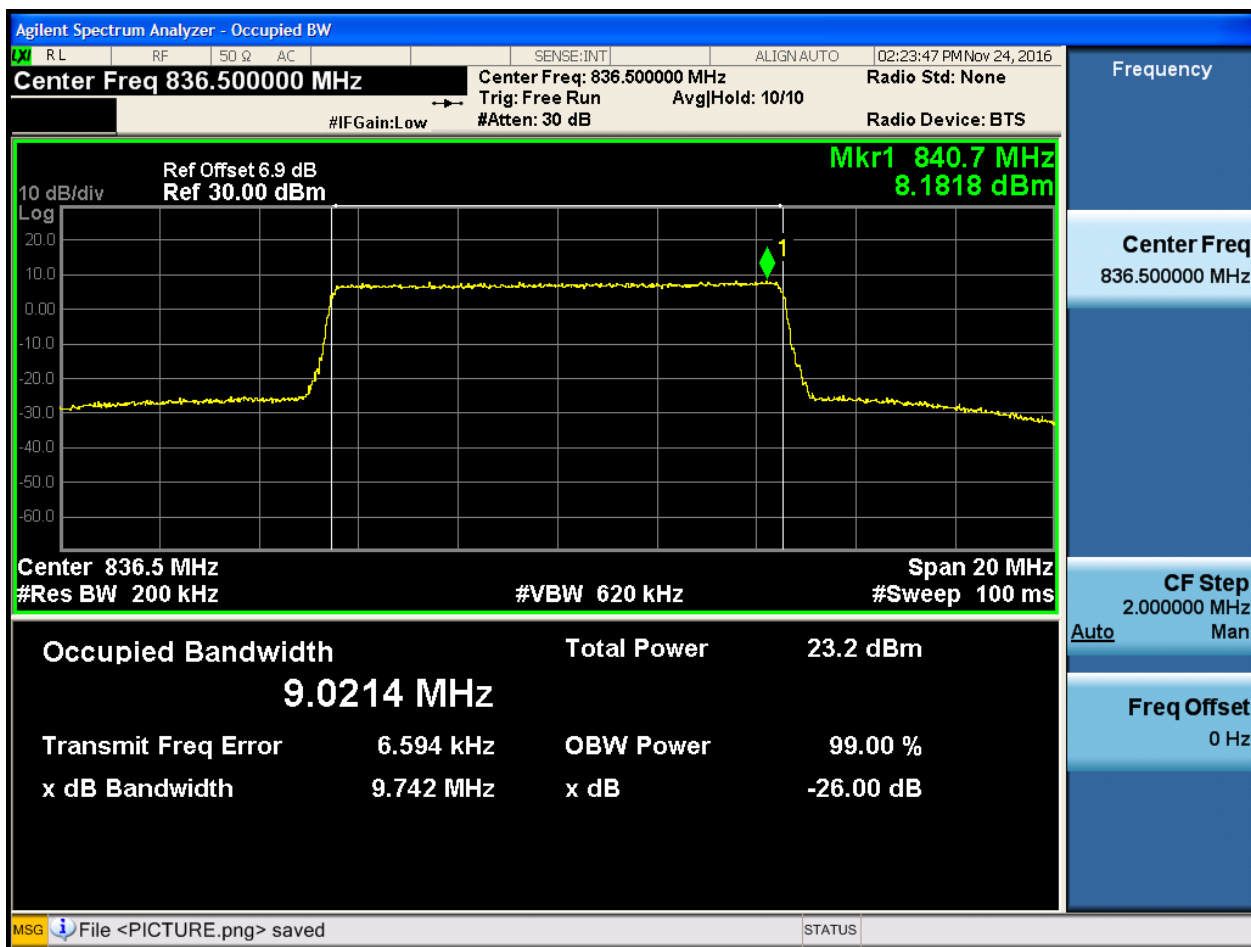
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

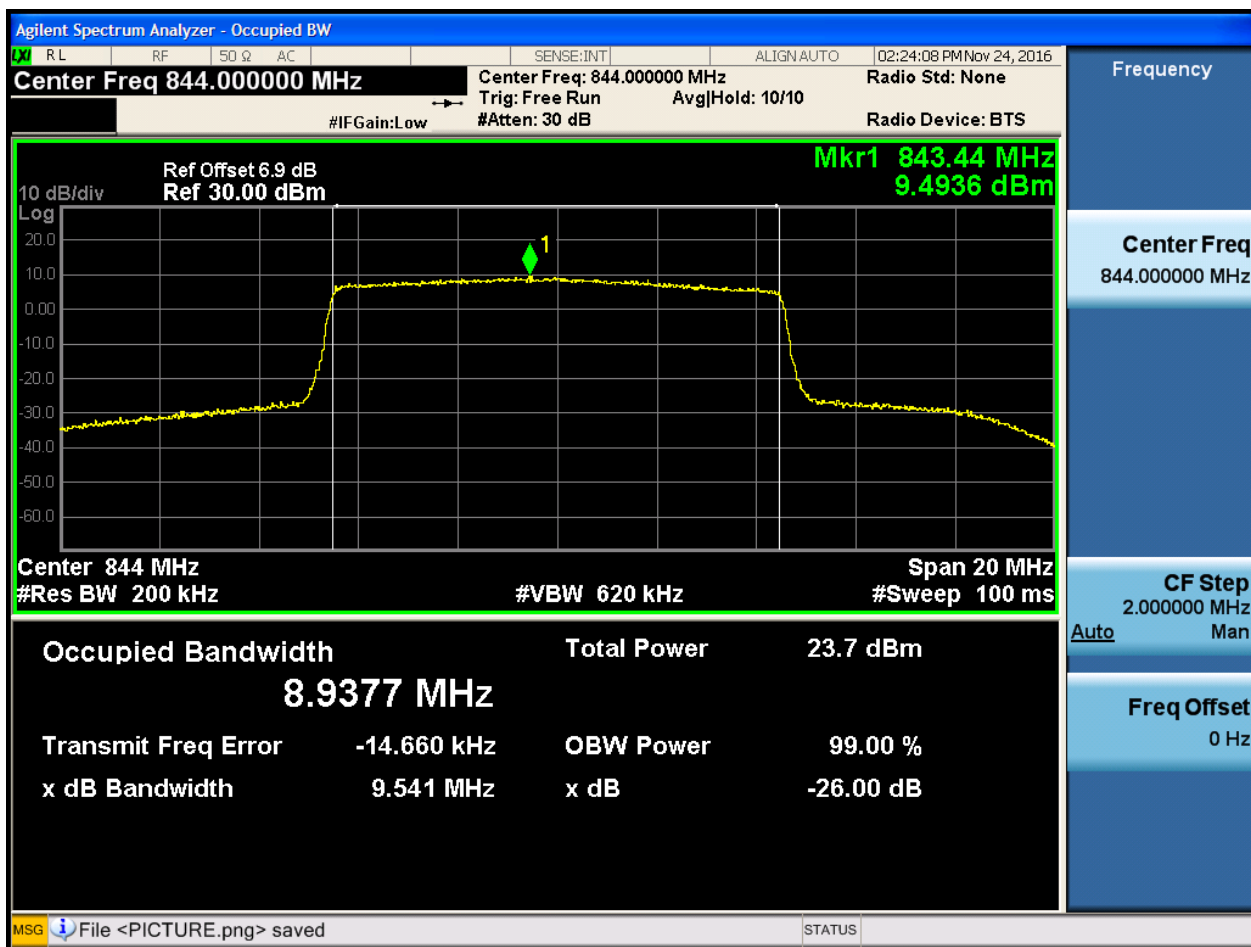
4.1.1.2.4.2.1 Test RB = RB50#0





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

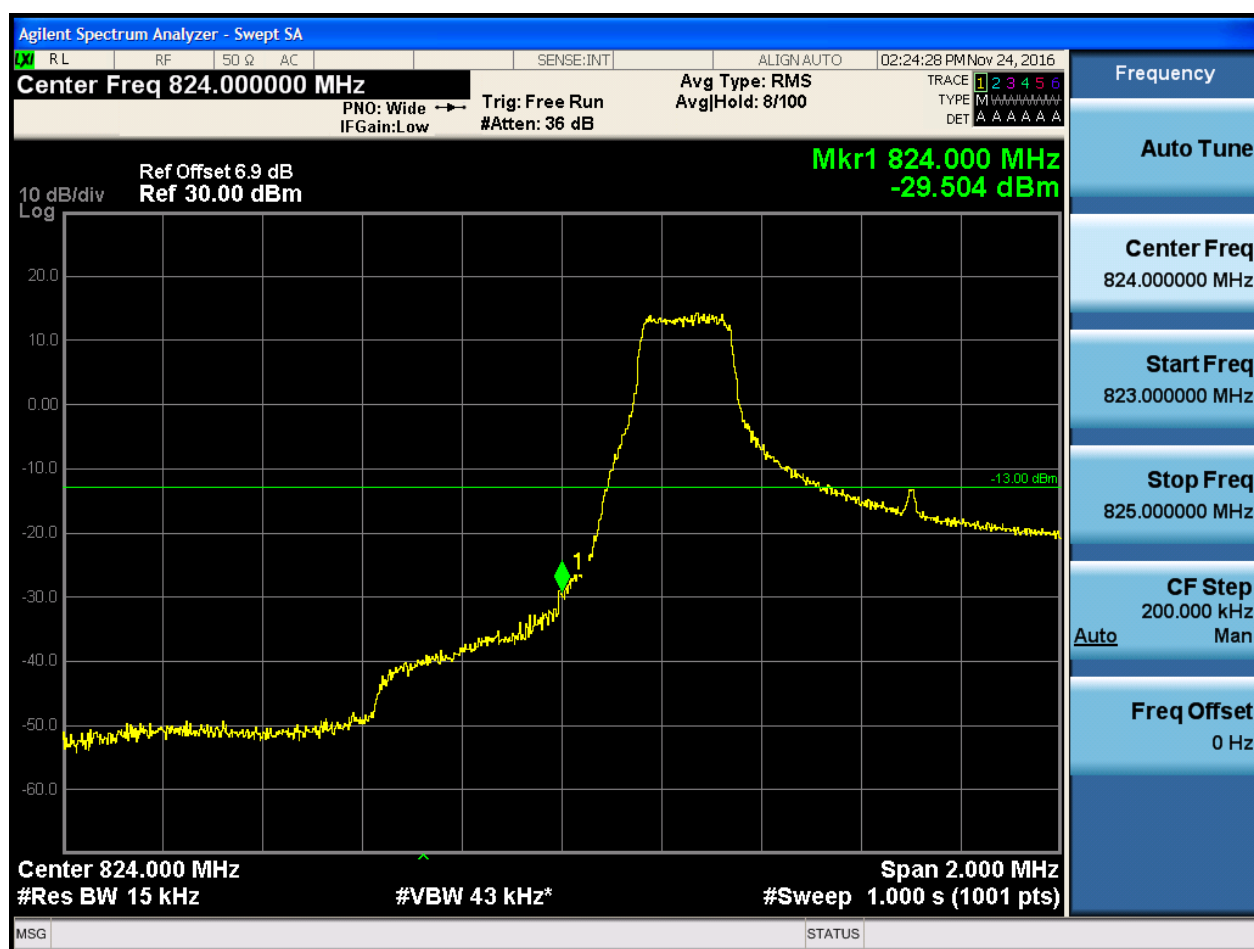
5.1.1 Test Band = BAND5

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

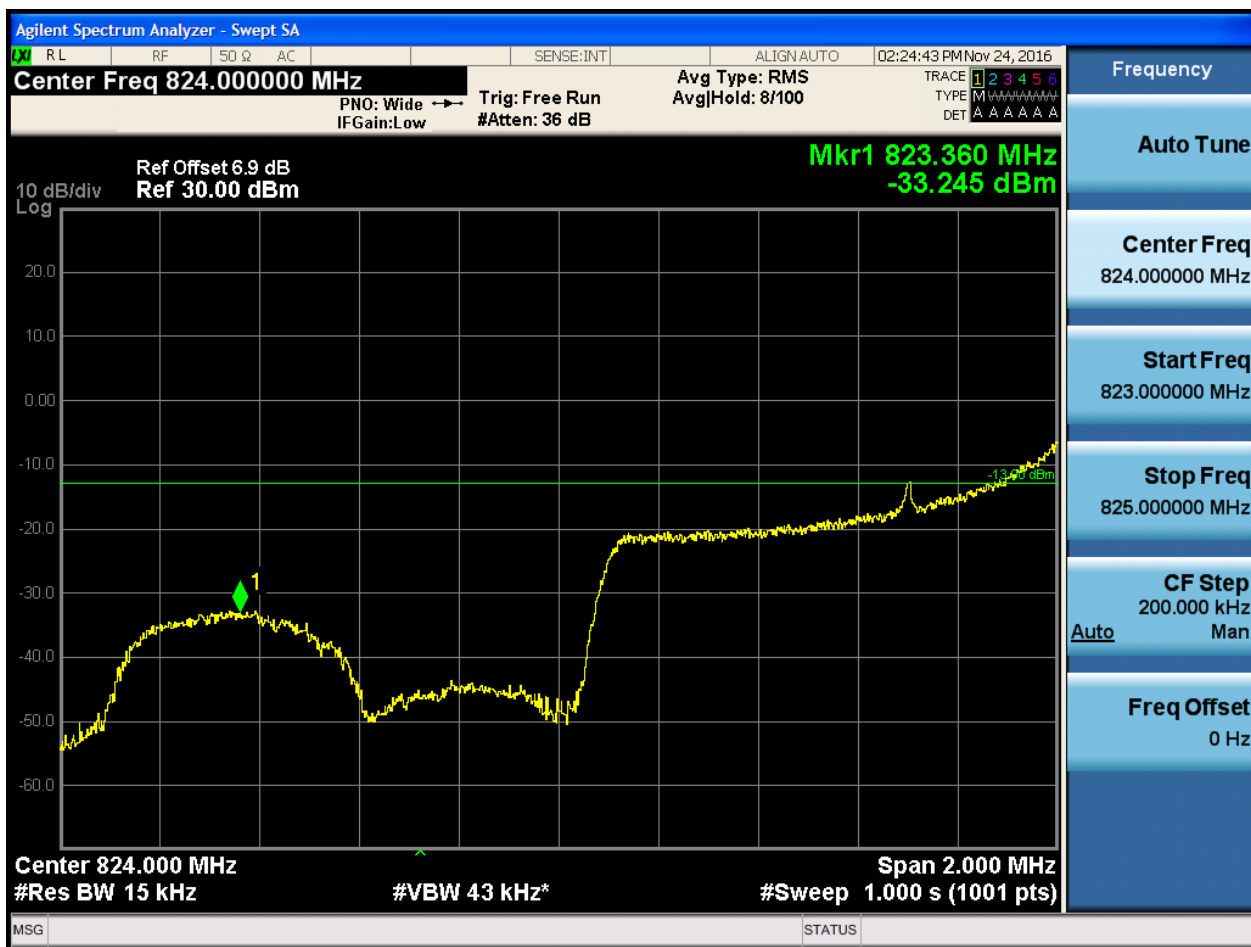
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



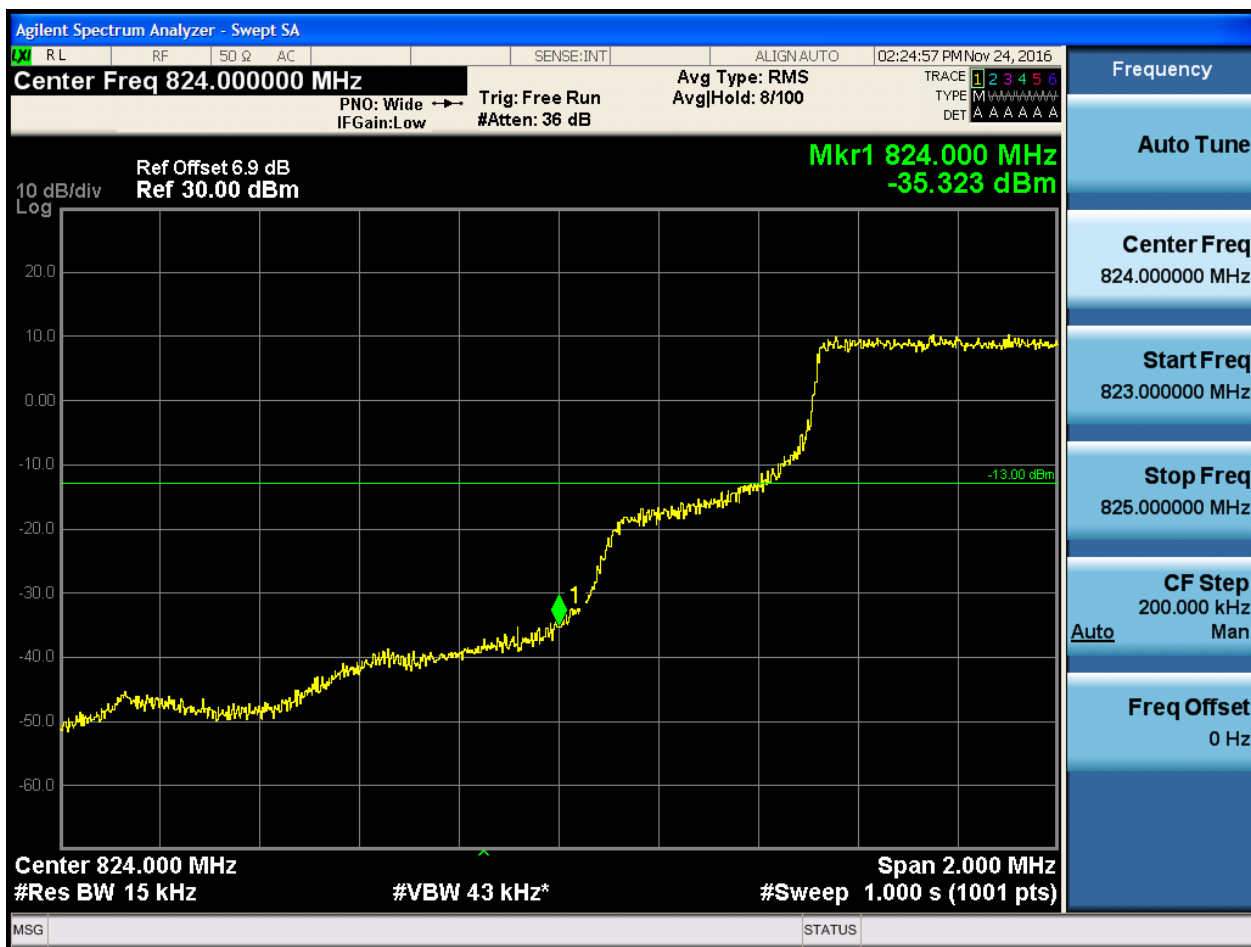


5.1.1.1.1.2 Test RB = RB1#5



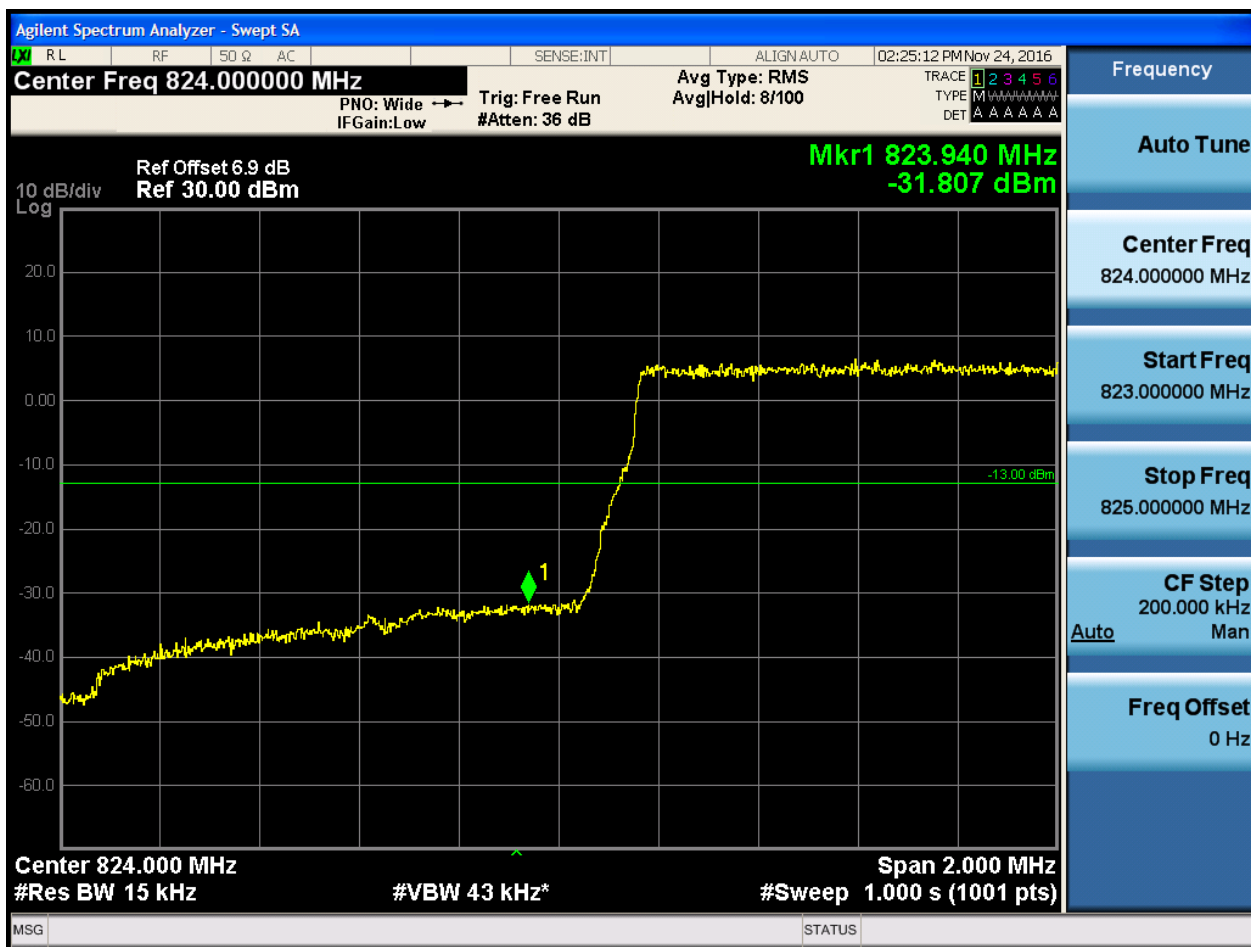


5.1.1.1.1.3 Test RB = RB3#2





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

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:25:46 PM Nov 24, 2016

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

10 dB/div Ref Offset 6.9 dB
Log Ref 30.00 dBm

Mkr1 849.010 MHz
-30.649 dBm

Center 849.000 MHz Span 2.000 MHz
#Res BW 15 kHz #VBW 43 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
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:26:01 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 849.080 MHz
-27.757 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

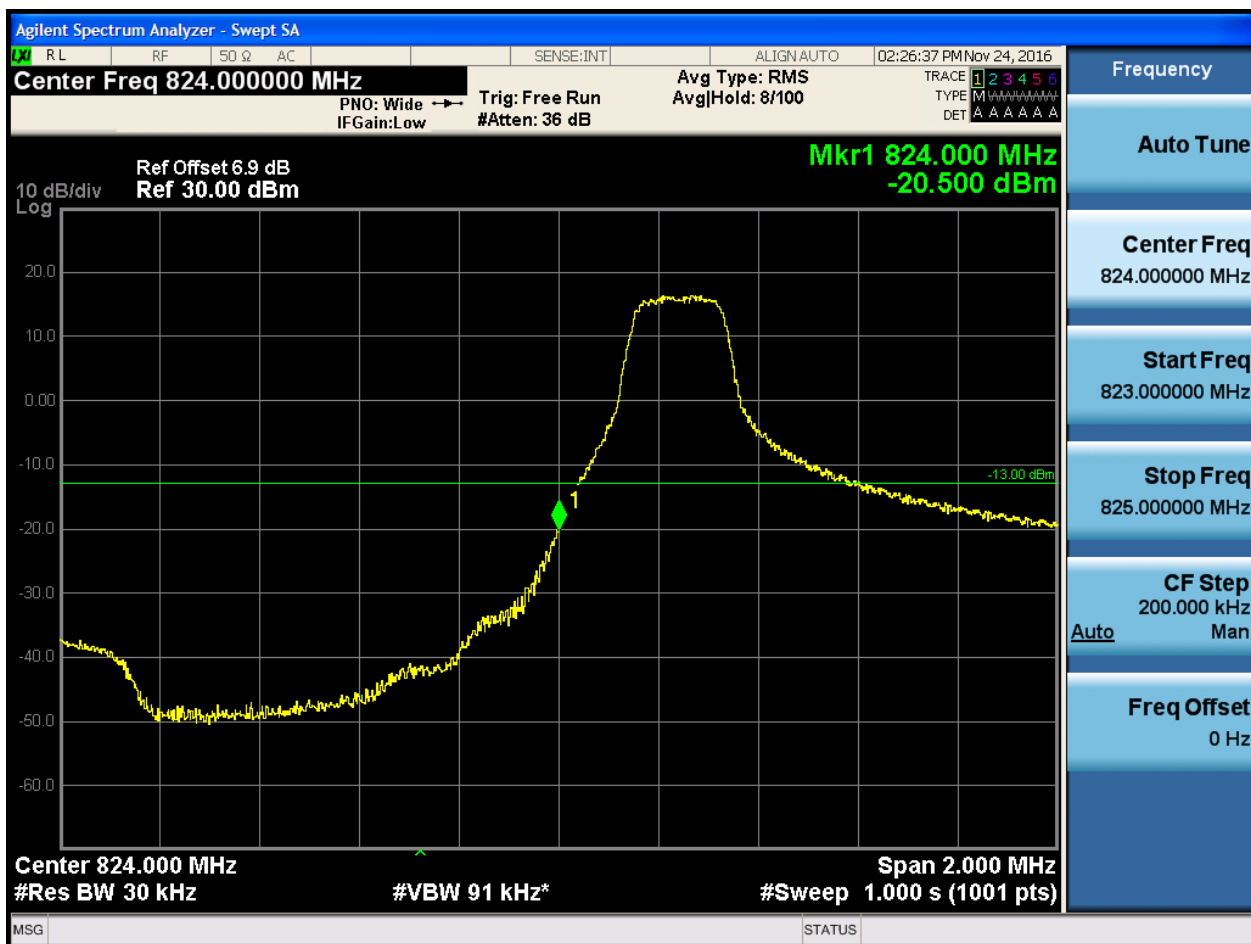




5.1.1.1.2 Test Bandwidth = 3

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:26:52 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-35.240 dBm

10 dB/div
Log

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

-13.00 dBm

Center 824.000 MHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 91 kHz*

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 02:27:06 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-30.936 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

Center Freq 824.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-28.985 dBm

Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 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

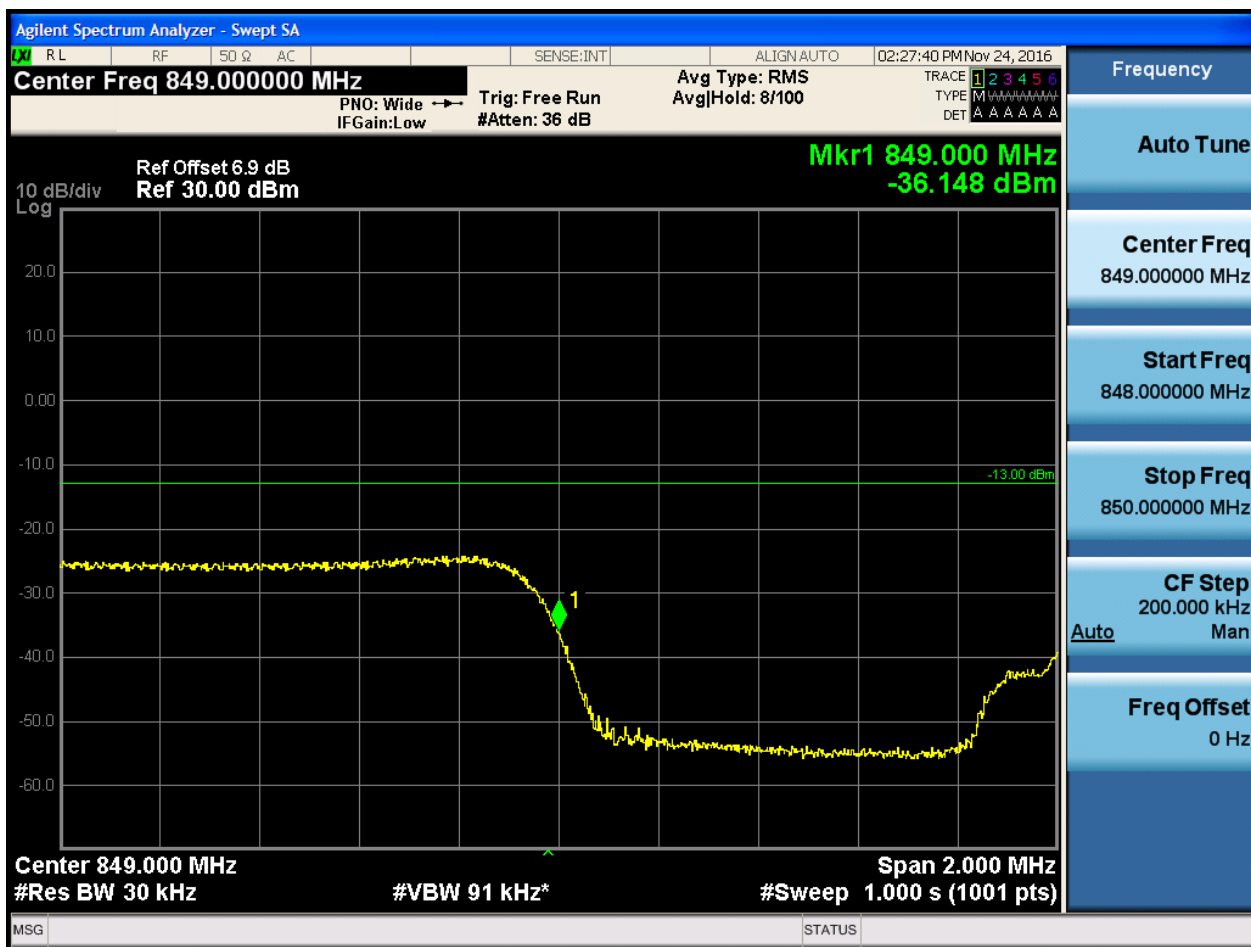
CF Step
200.000 kHz
Auto

Freq Offset
0 Hz



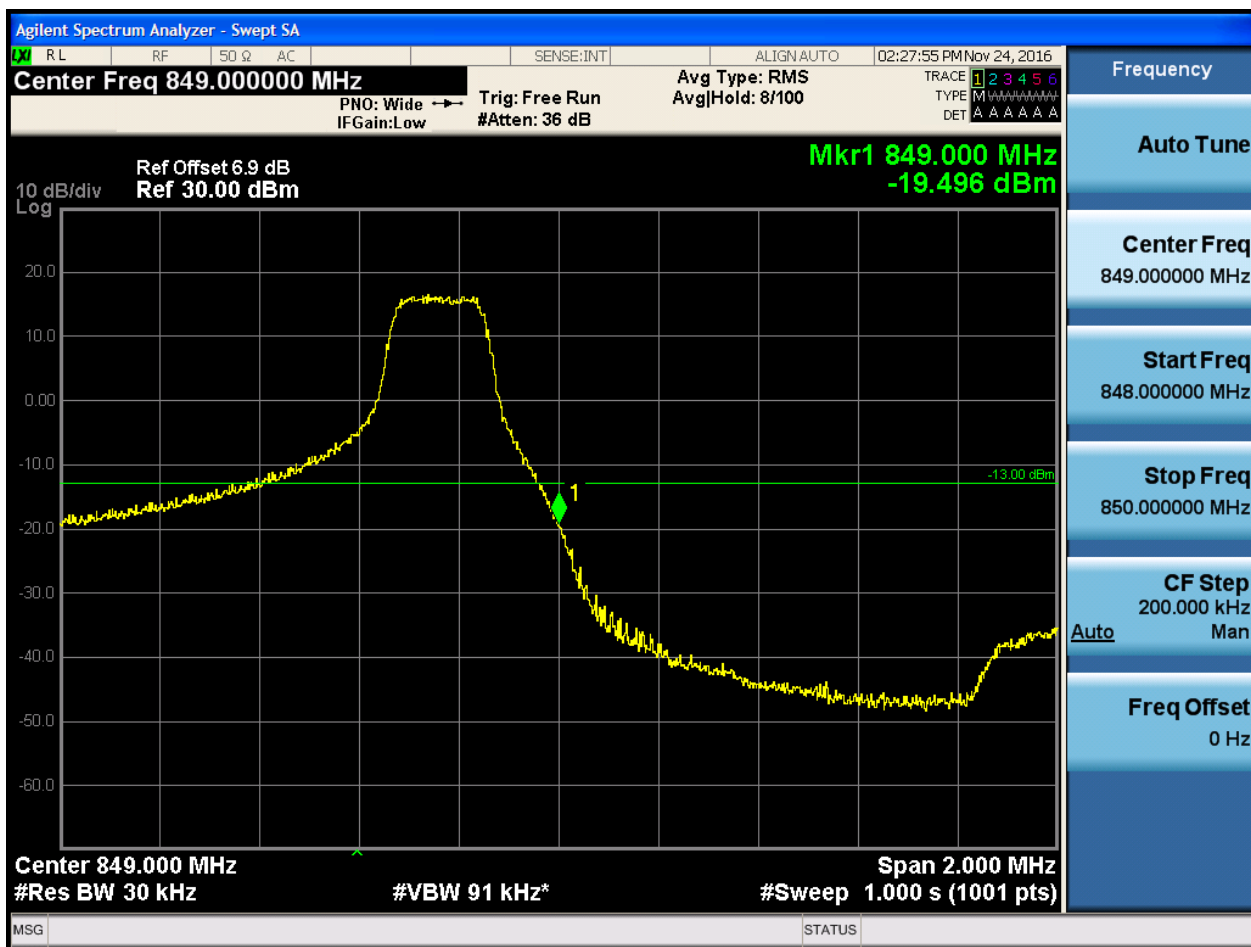
5.1.1.1.2.2 Test Channel = HCH

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 02:28:09 PM Nov 24, 2016

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

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-31.440 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:28:24 PM Nov 24, 2016

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 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 849.000 MHz
-29.059 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)

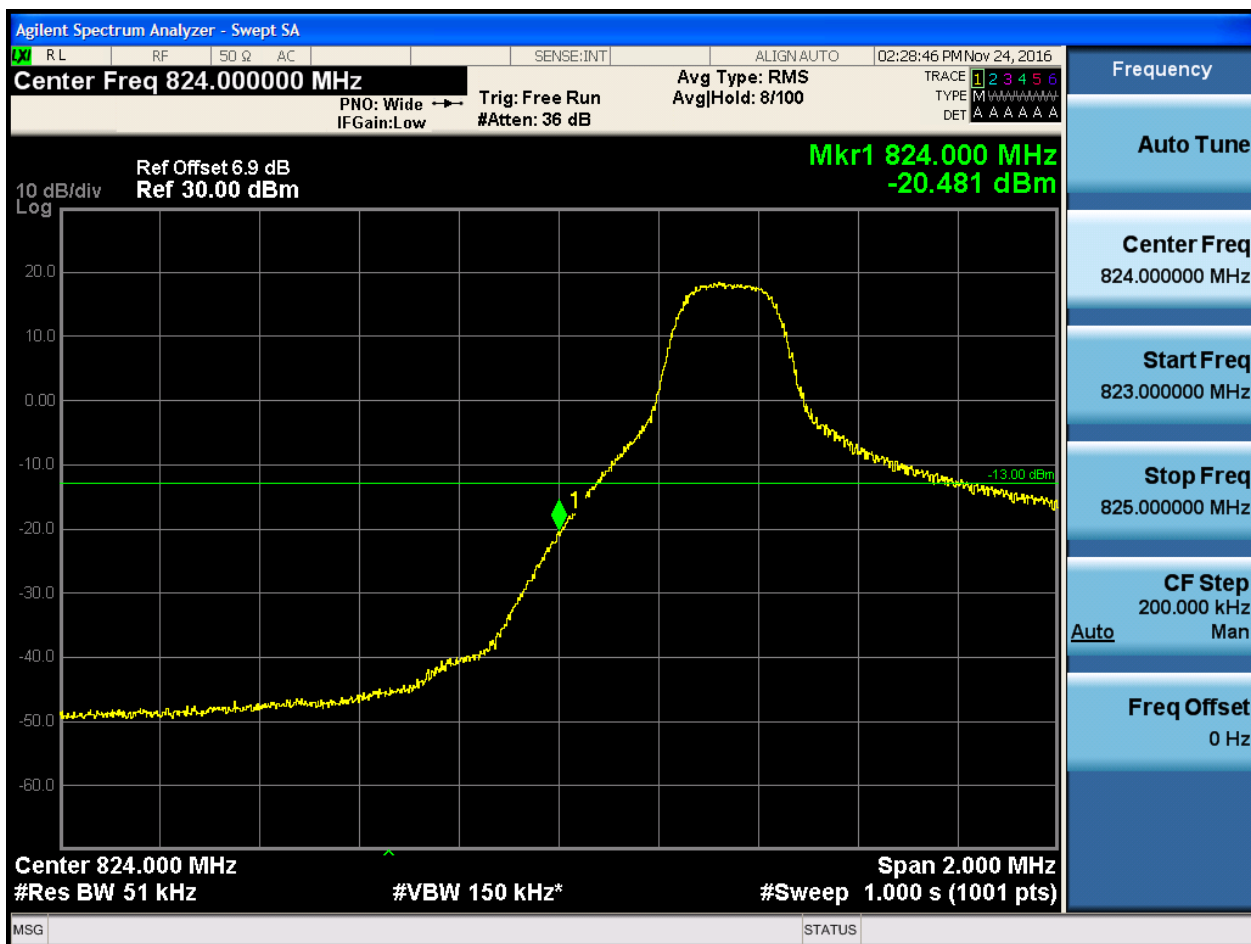
MSG STATUS



5.1.1.1.3 Test Bandwidth = 5

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:29:00 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-39.063 dBm

10 dB/div
Log

-13.00 dBm

Center 824.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 150 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

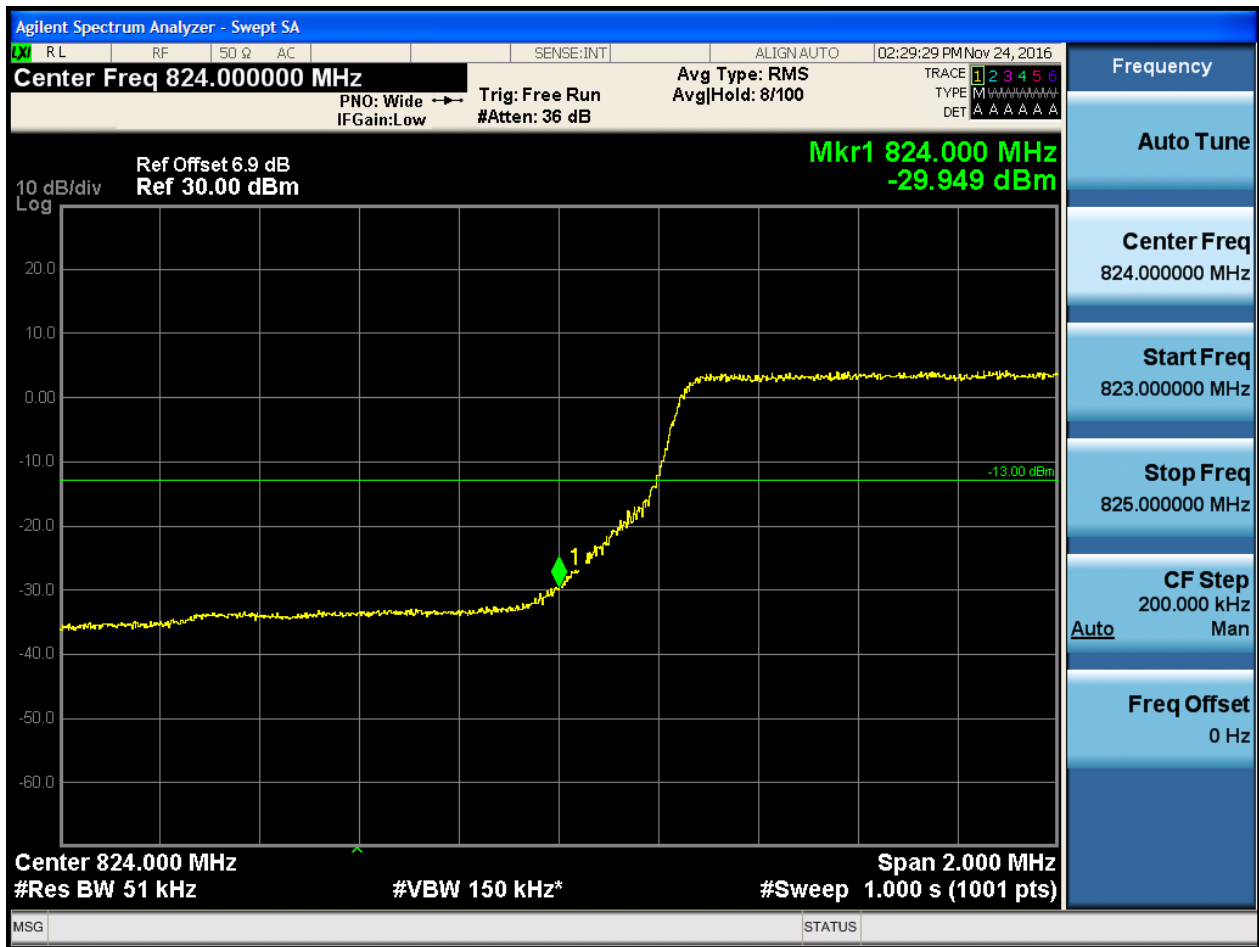
MSG STATUS

5.1.1.1.3.1.3 Test RB = RB12#6





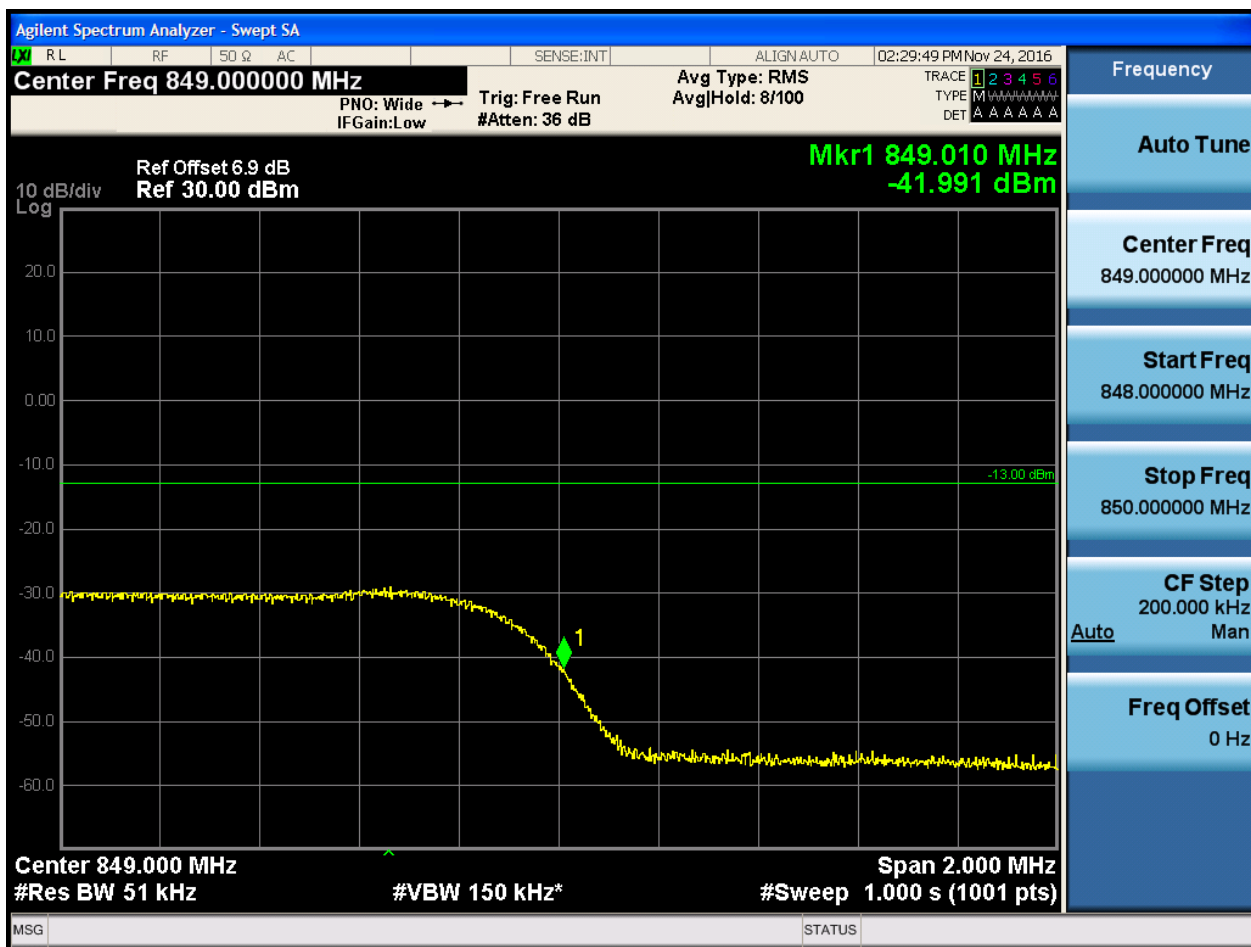
5.1.1.1.3.1.4 Test RB = RB25#0





5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:30:04 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-21.864 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 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 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg|Hold: 8/100

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

Mkr1 849.010 MHz
-31.953 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



5.1.1.1.3.2.4 Test RB = RB25#0

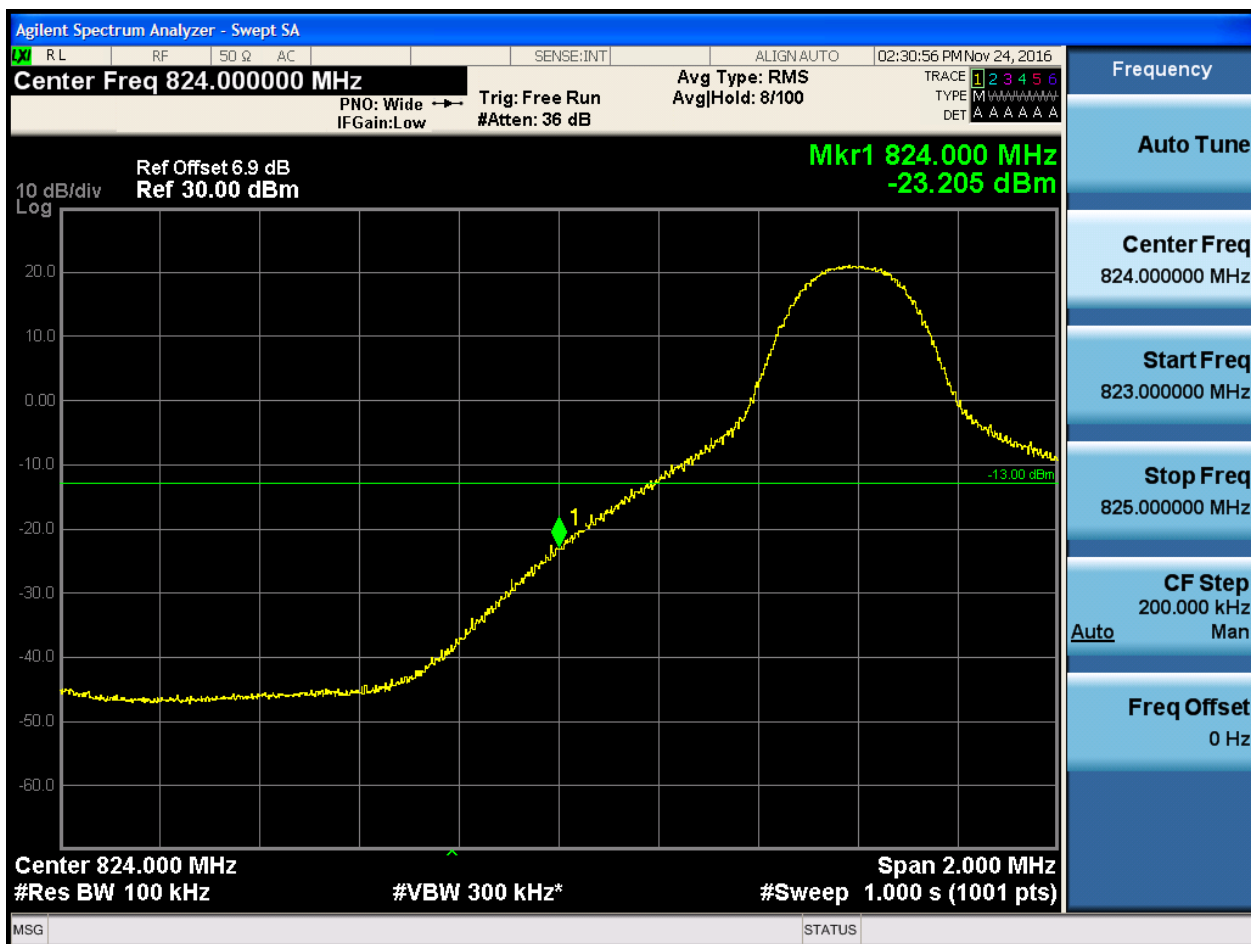




5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:31:10 PM Nov 24, 2016

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
DET A A A A A A

Ref Offset 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-39.970 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

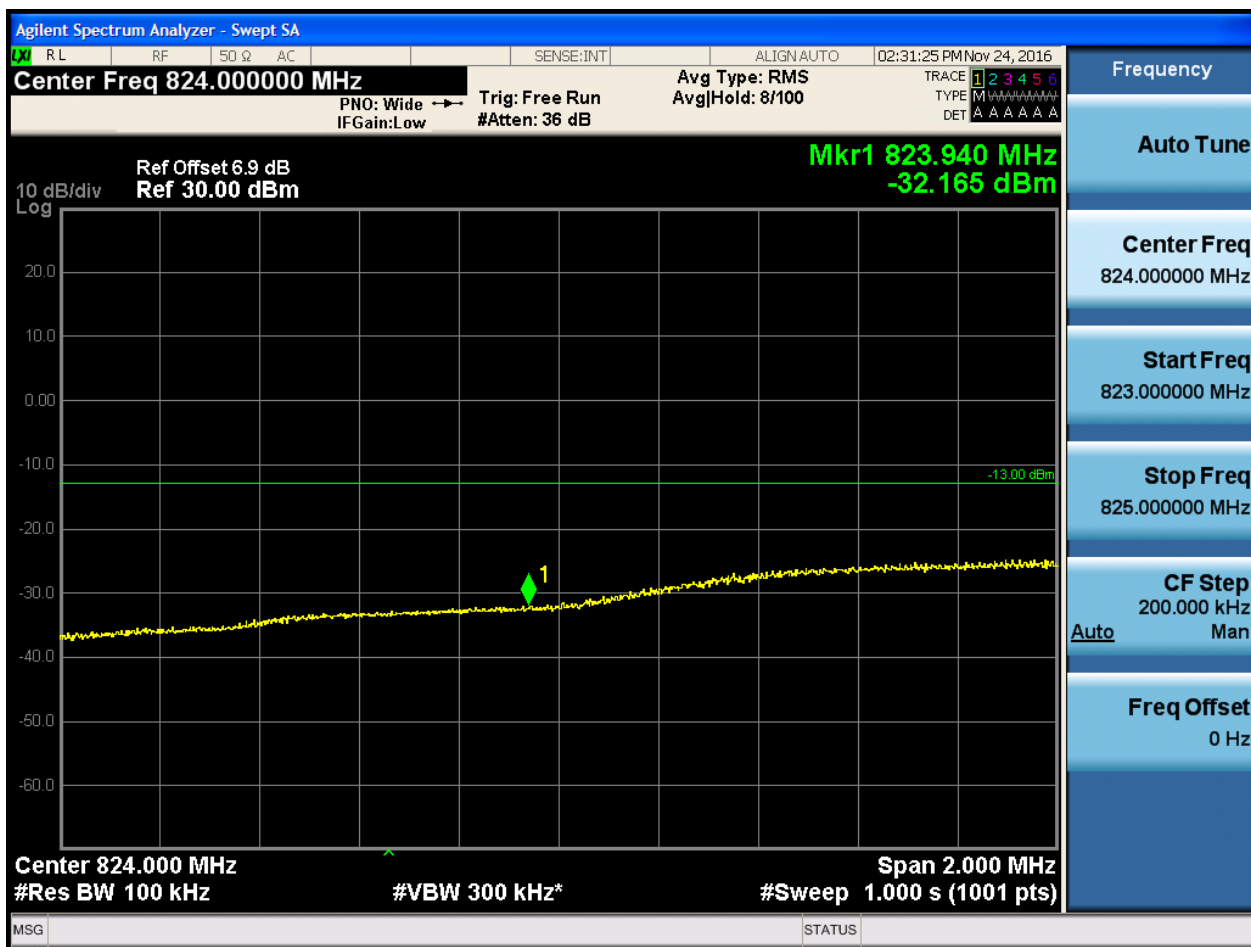
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

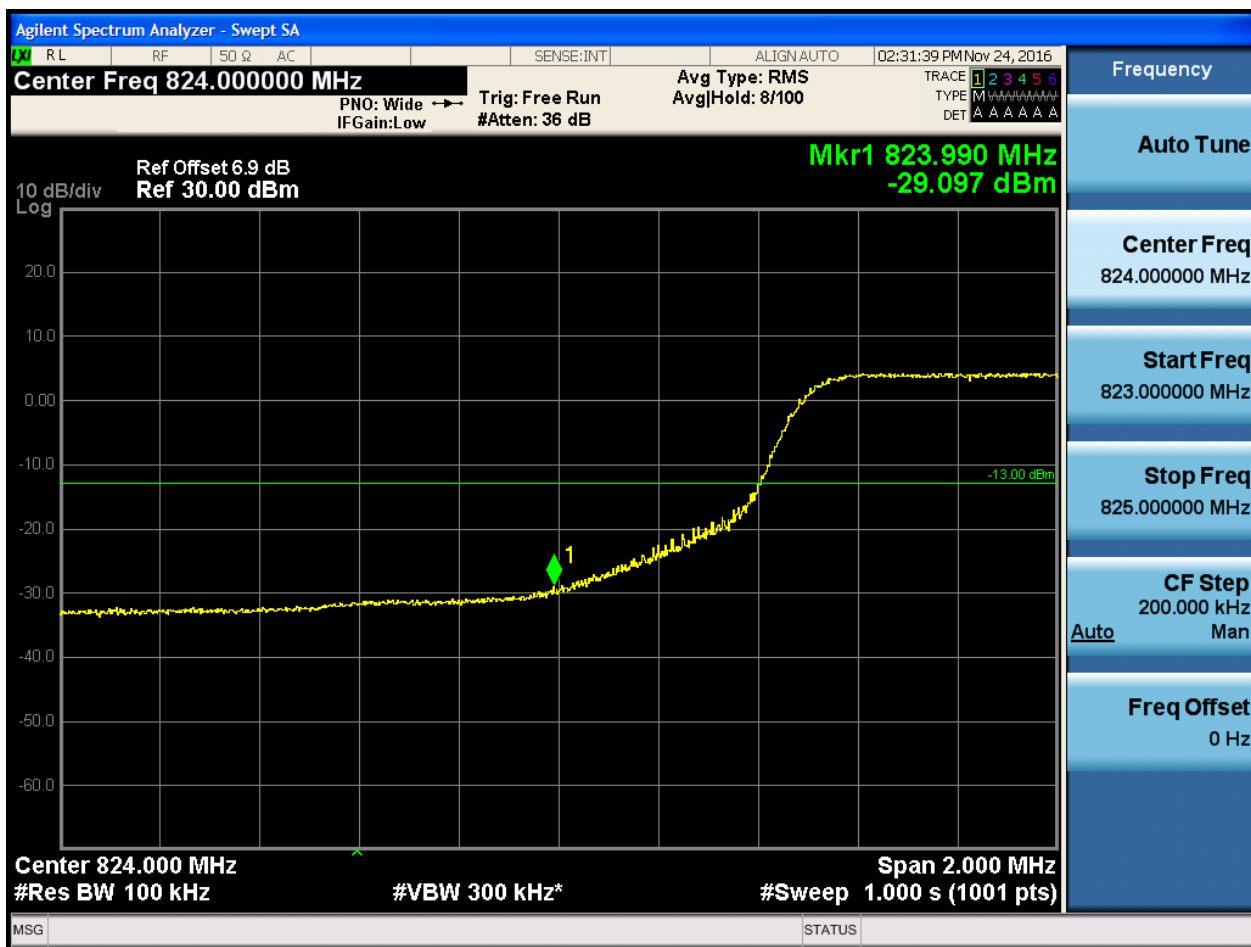


5.1.1.1.4.1.3 Test RB = RB25#13





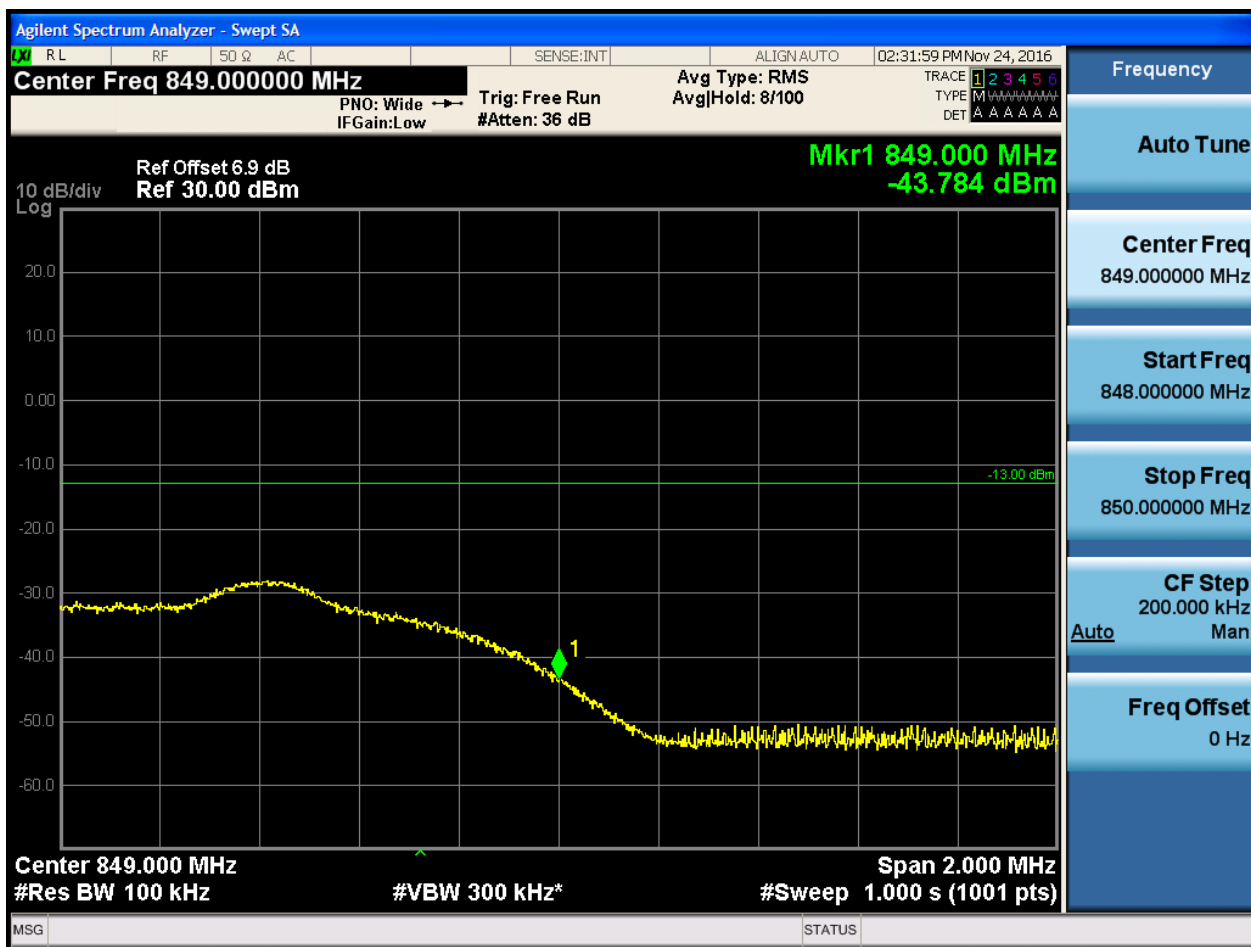
5.1.1.1.4.1.4 Test RB = RB50#0





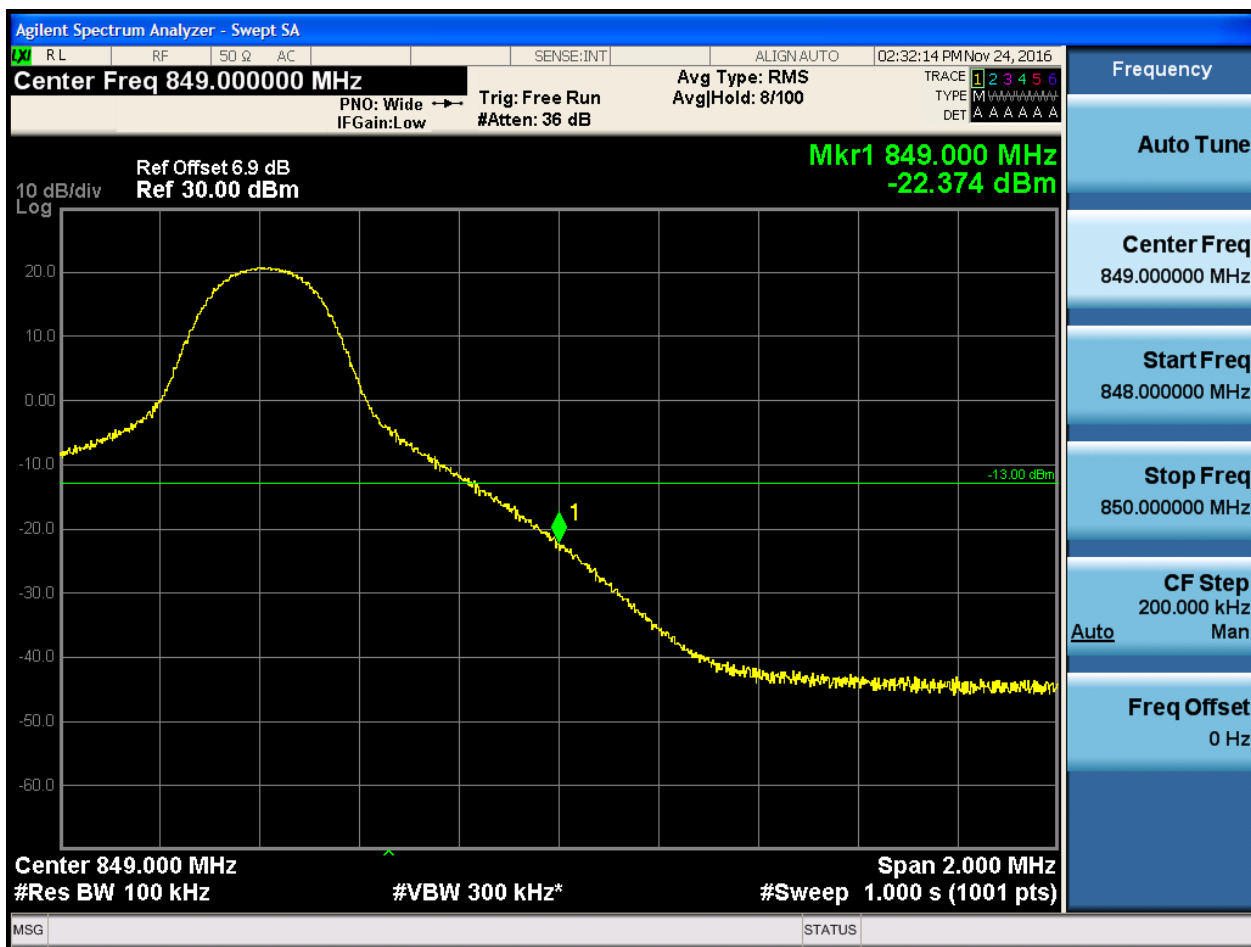
5.1.1.1.4.2 Test Channel = HCH

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

Center Freq 849.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.010 MHz
-31.069 dBm

Center 849.000 MHz
#Res BW 100 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 300 kHz*

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

The image shows a screenshot of an Agilent Spectrum Analyzer in Swept SA mode. The main display area shows a frequency spectrum with a yellow trace. A green horizontal line is drawn across the plot at -13.00 dBm. A yellow marker labeled '1' is placed on the trace at 849.010 MHz, indicating a signal level of -31.069 dBm. The plot has a grid with frequency on the horizontal axis and power in dBm on the vertical axis. The vertical axis is labeled '10 dB/div' and 'Log'. The horizontal axis is labeled 'Center 849.000 MHz' and 'Span 2.000 MHz'. The plot shows a noisy signal that is relatively flat across the span, with a slight downward trend towards the right. The signal level is around -30 dBm. The reference level is set to 30.00 dBm with a 6.9 dB offset. The resolution bandwidth (Res BW) is 100 kHz, and the video bandwidth (VBW) is 300 kHz. The sweep time is 1.000 s, resulting in 1001 points. The display also shows various settings like Center Freq, Start Freq, Stop Freq, CF Step, and Freq Offset. The Auto Tune button is visible on the right side of the plot area.



5.1.1.1.4.2.4 Test RB = RB50#0



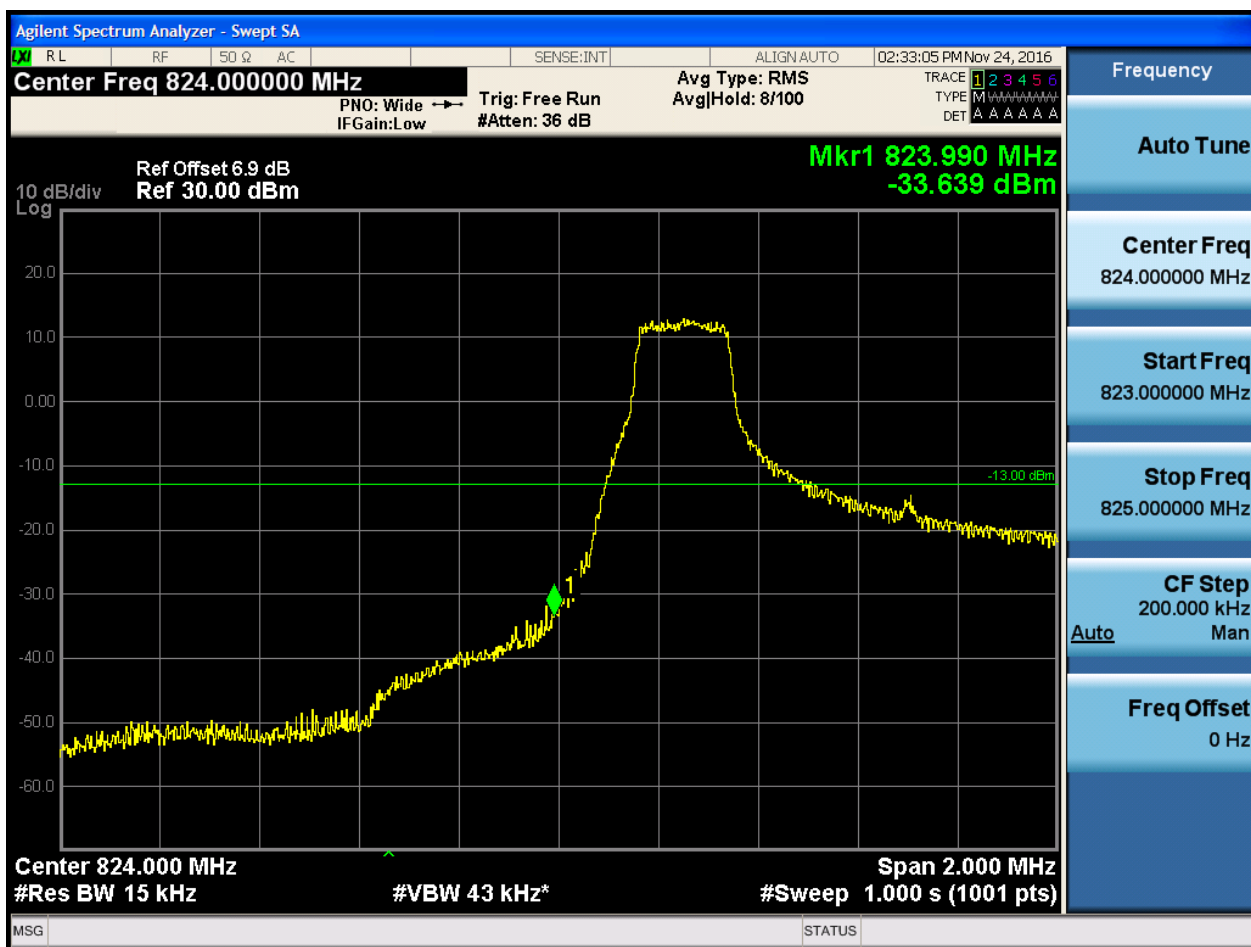


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

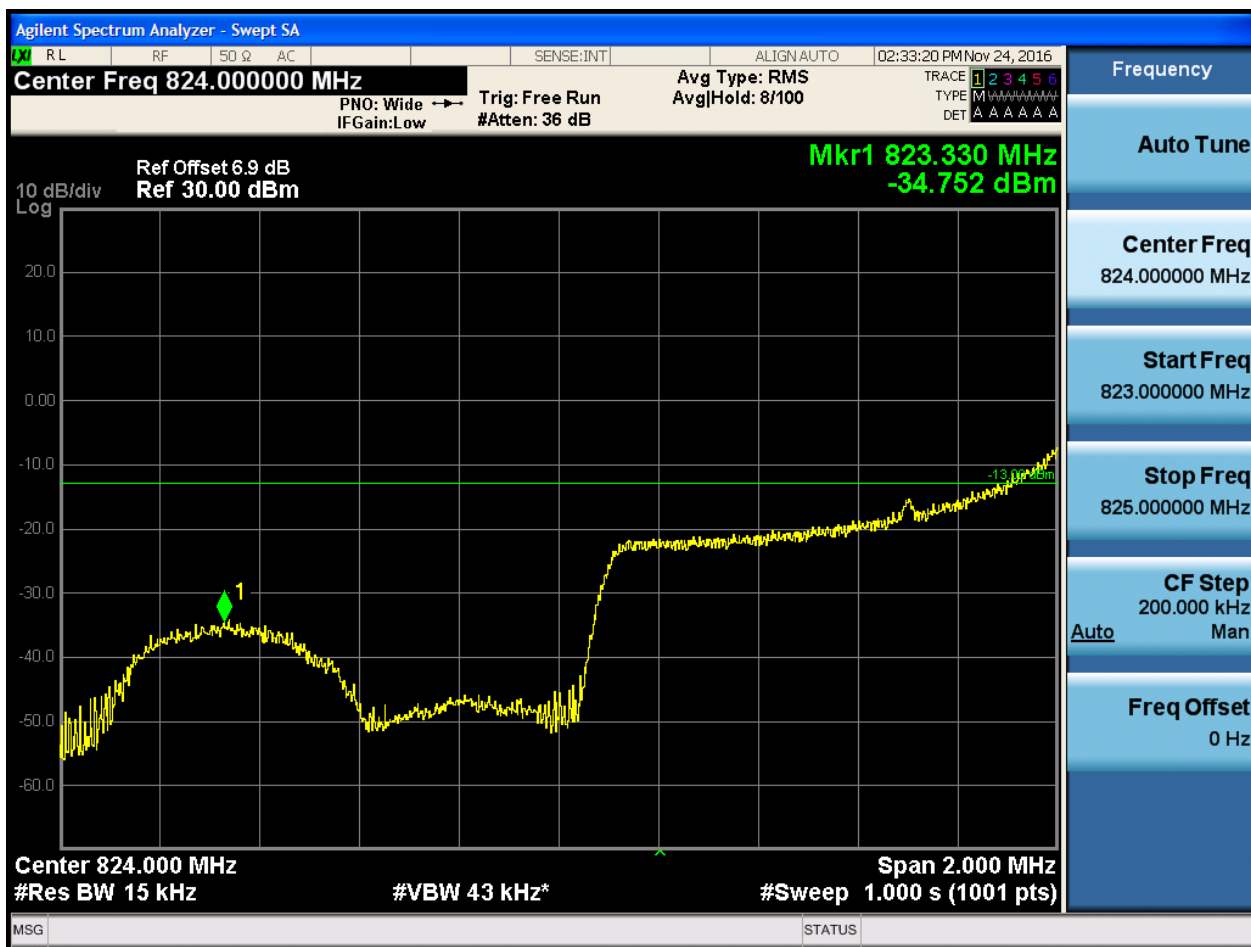
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0

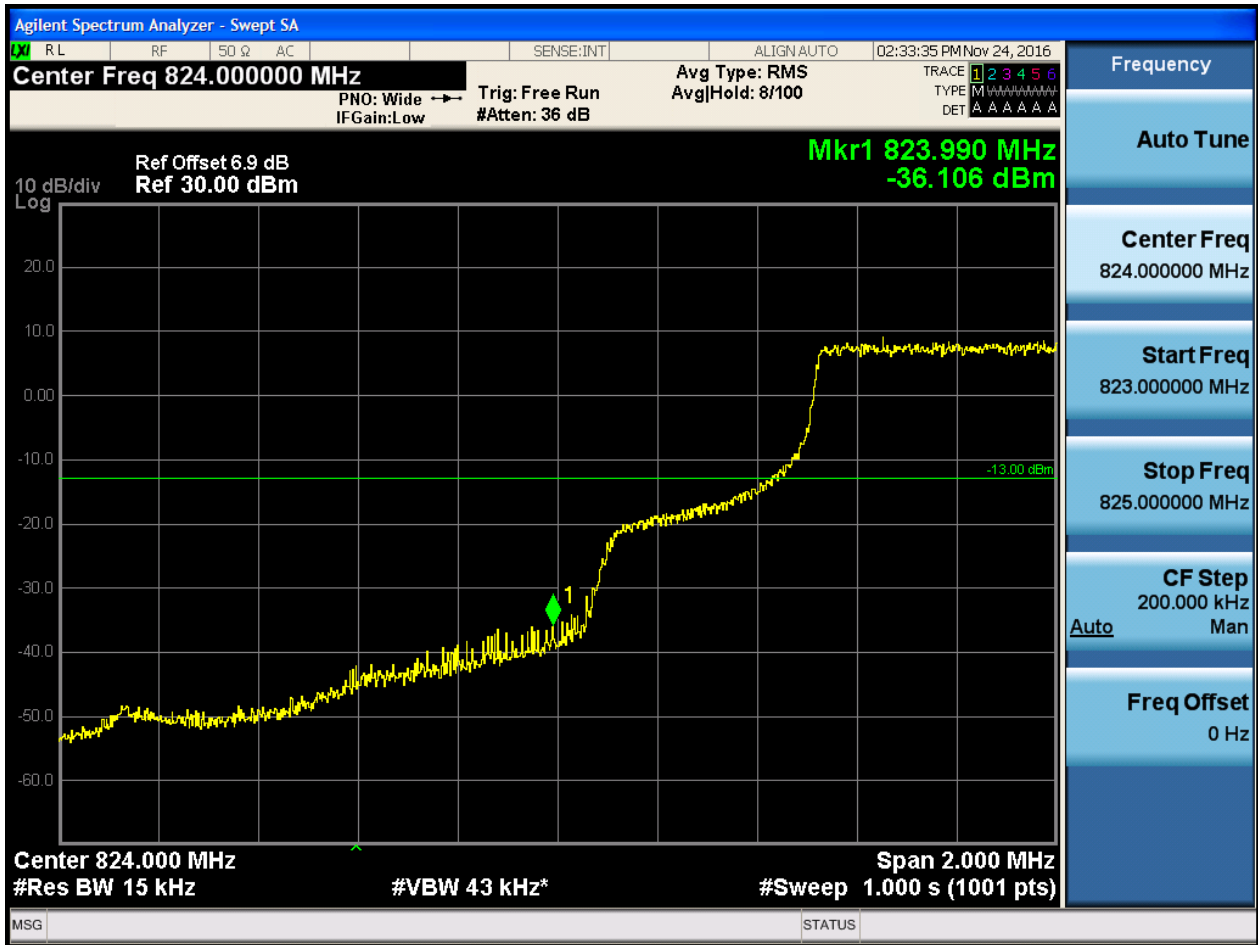




5.1.1.2.1.1.2 Test RB = RB1#5

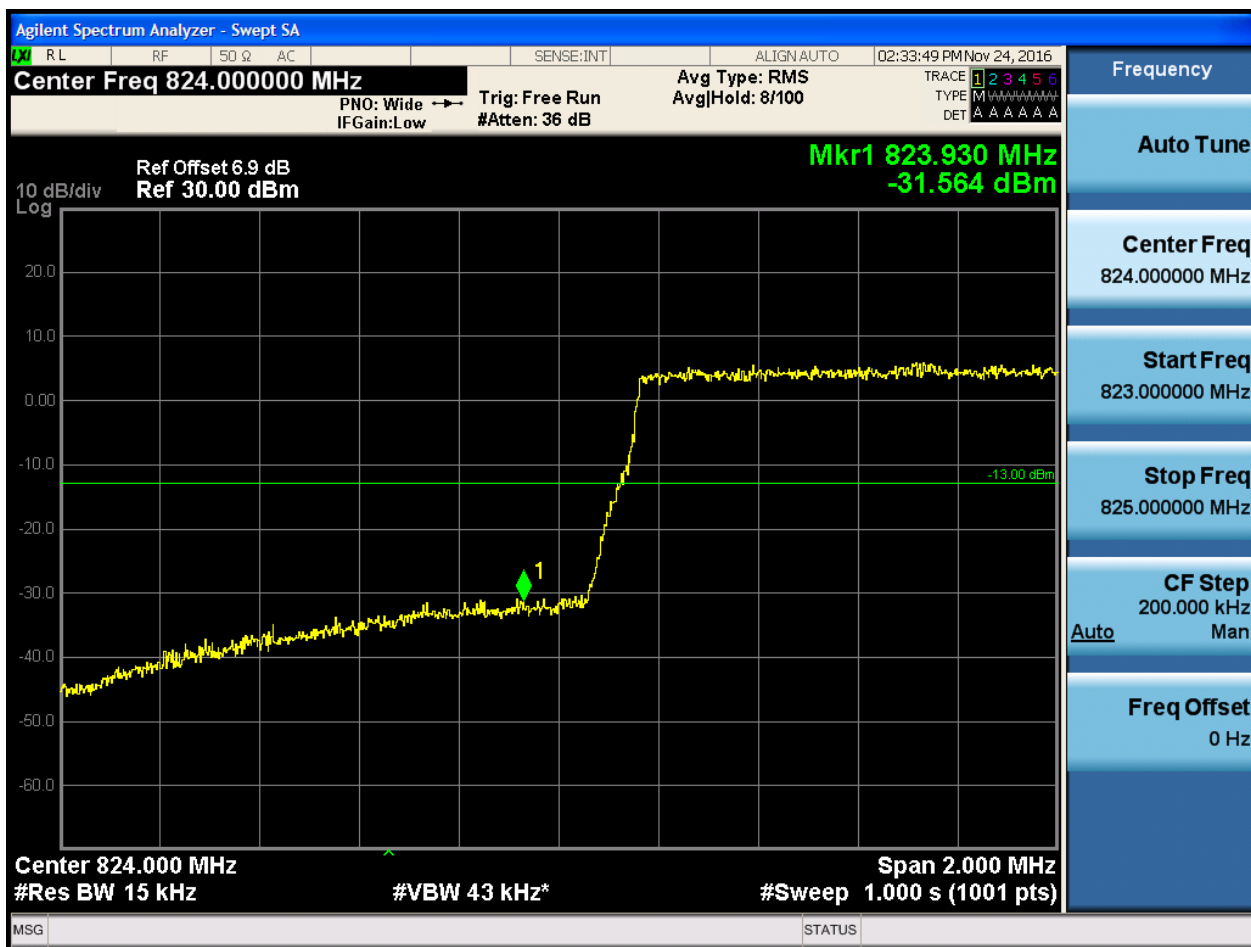


5.1.1.2.1.1.3 Test RB = RB3#2





5.1.1.2.1.1.4 Test RB = RB6#0



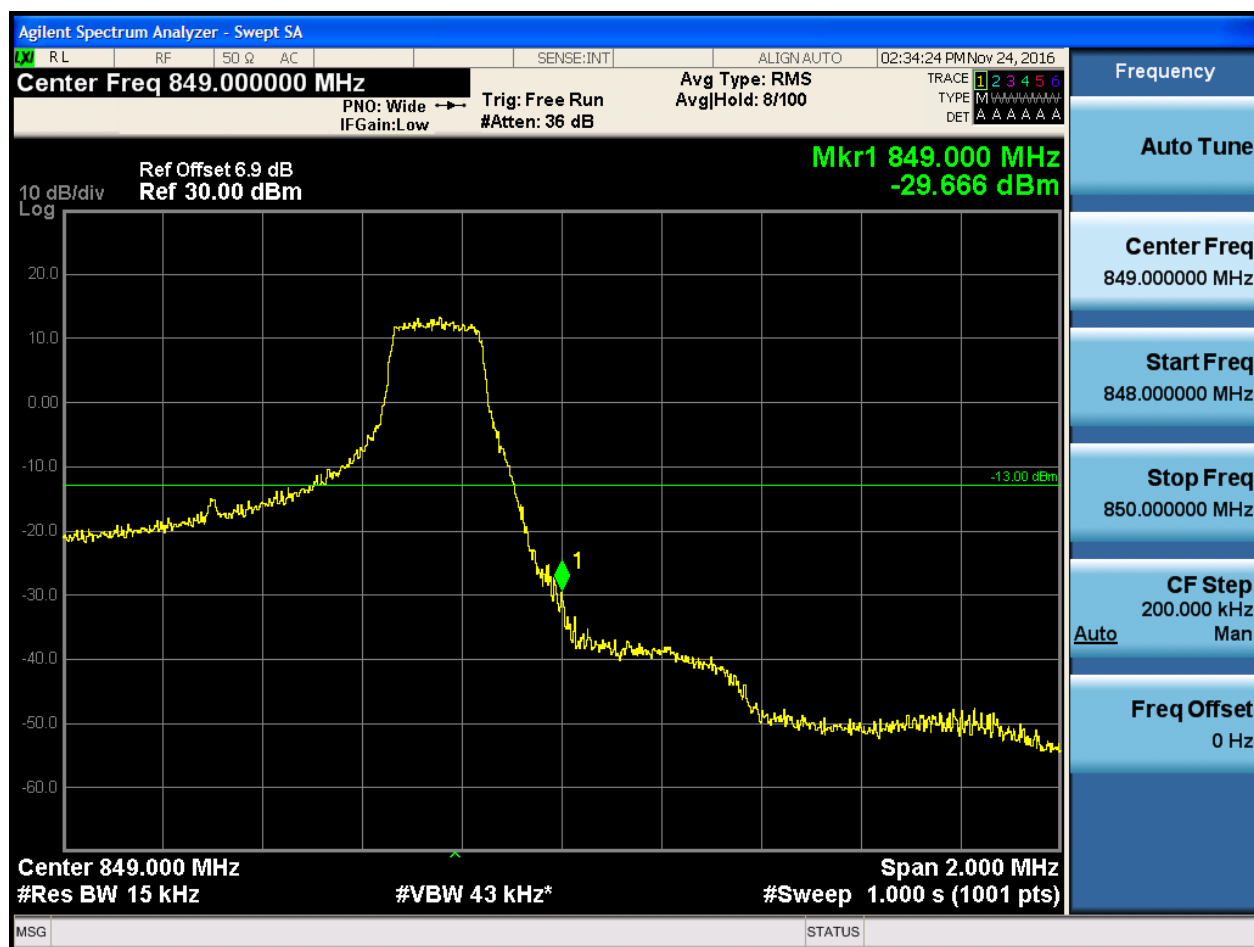


5.1.1.2.1.2 Test Channel = HCH

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





5.1.1.2.1.2.4 Test RB = RB6#0

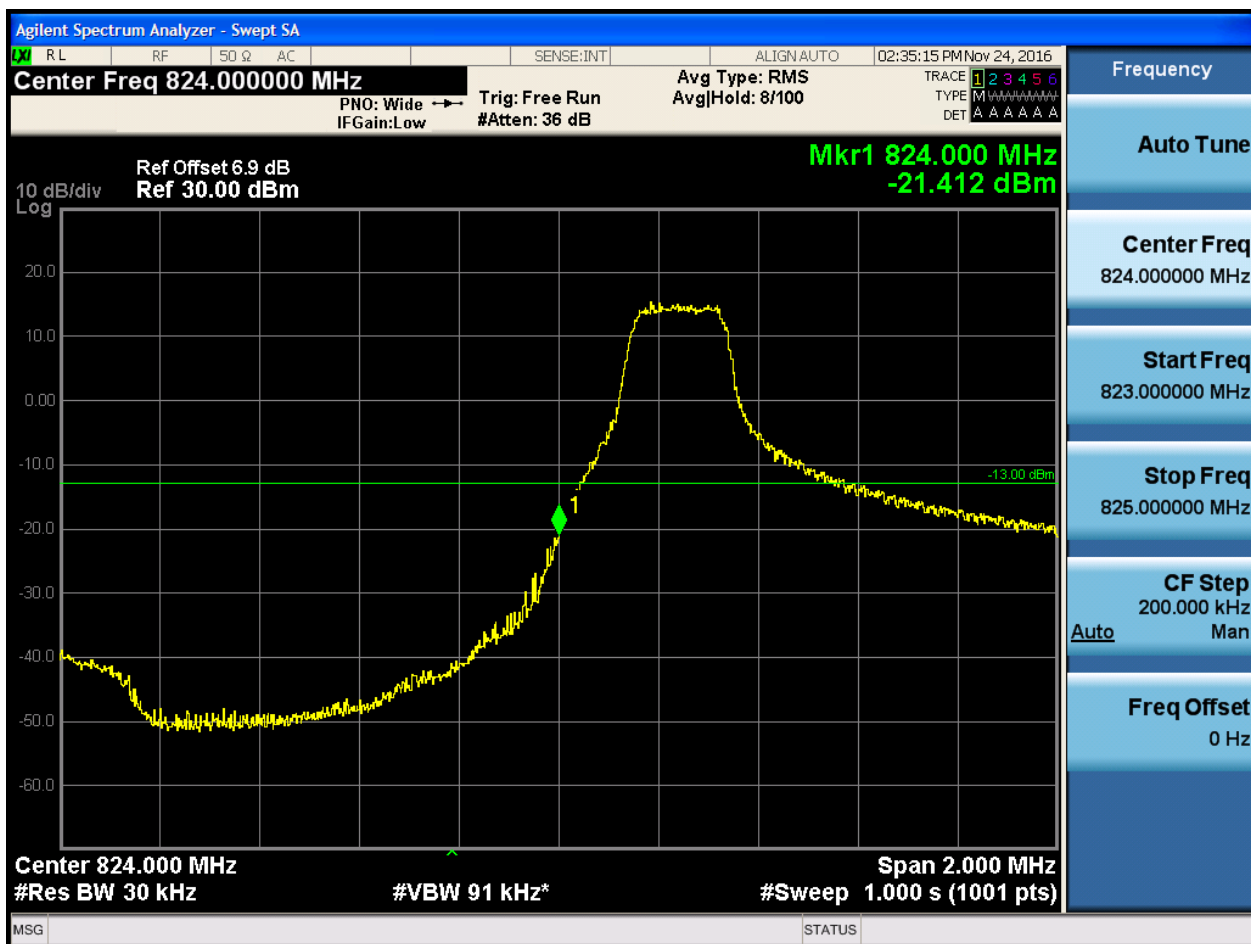




5.1.1.2.2 Test Bandwidth = 3

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 02:35:29 PM Nov 24, 2016

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

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-35.360 dBm

-13.00 dBm

Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:35:44 PM Nov 24, 2016

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide → Trig: Free Run AvgHold: 8/100
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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-32.253 dBm

10 dB/div
Log

Center 824.000 MHz
#Res BW 30 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 02:35:58 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-28.748 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

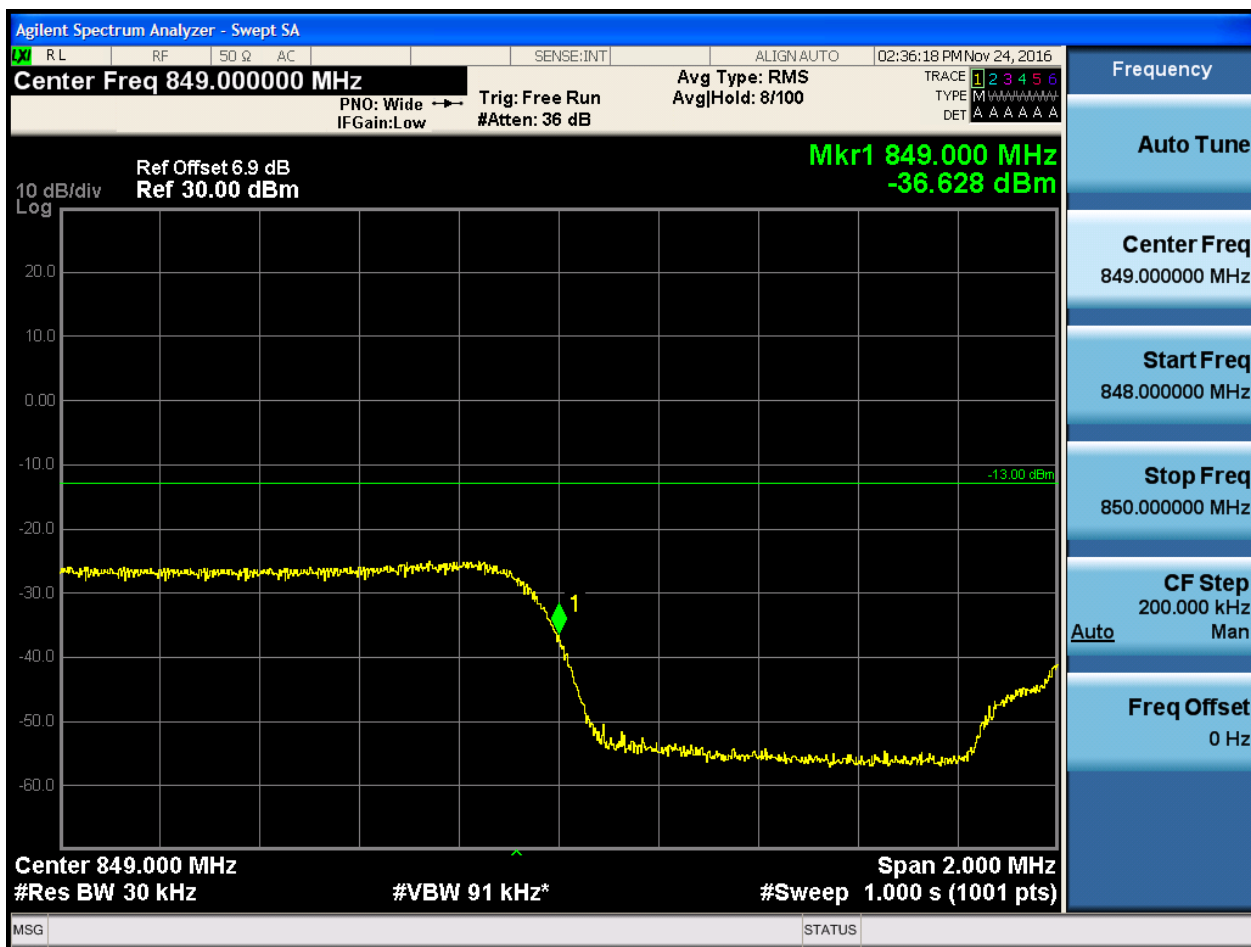
Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



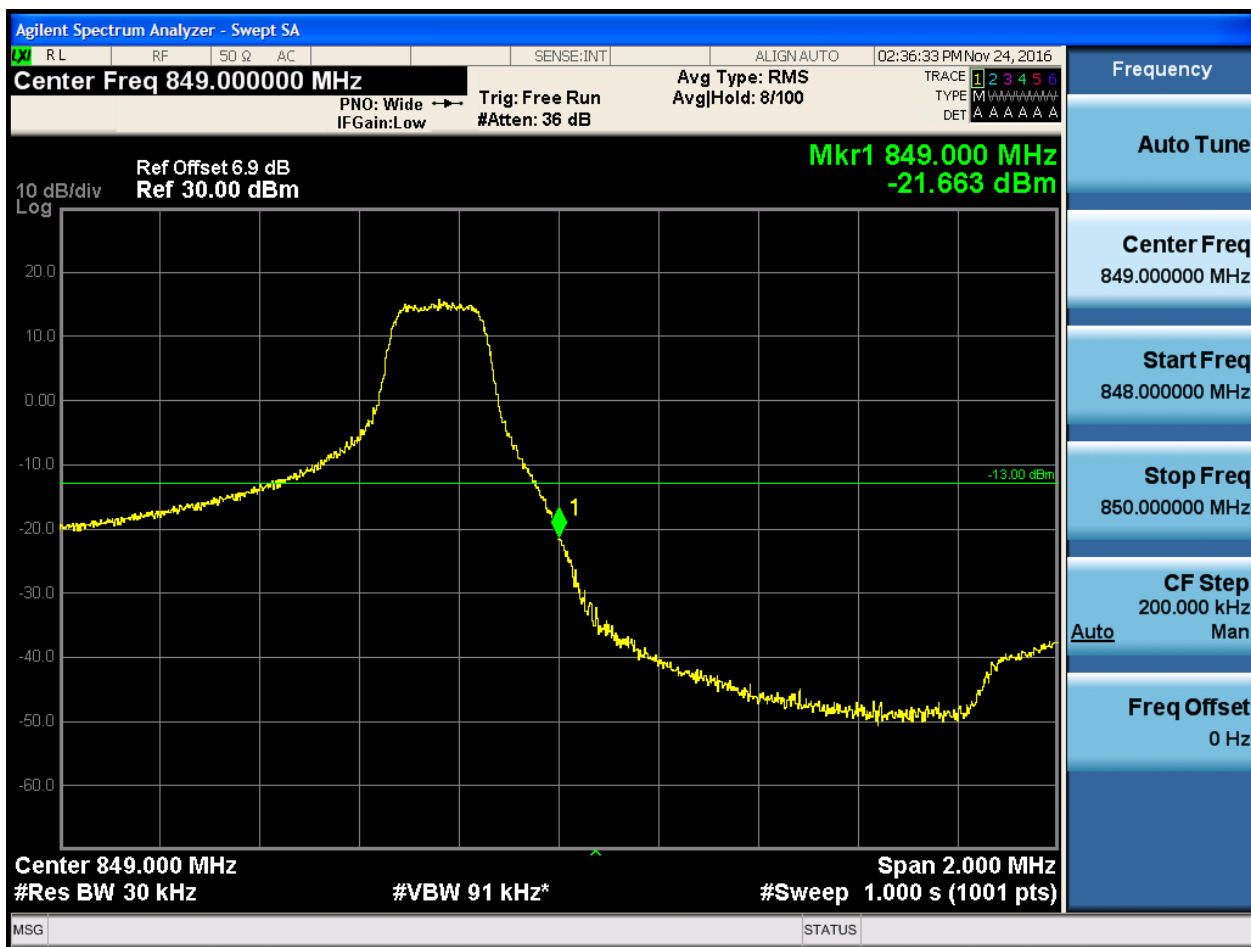
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14

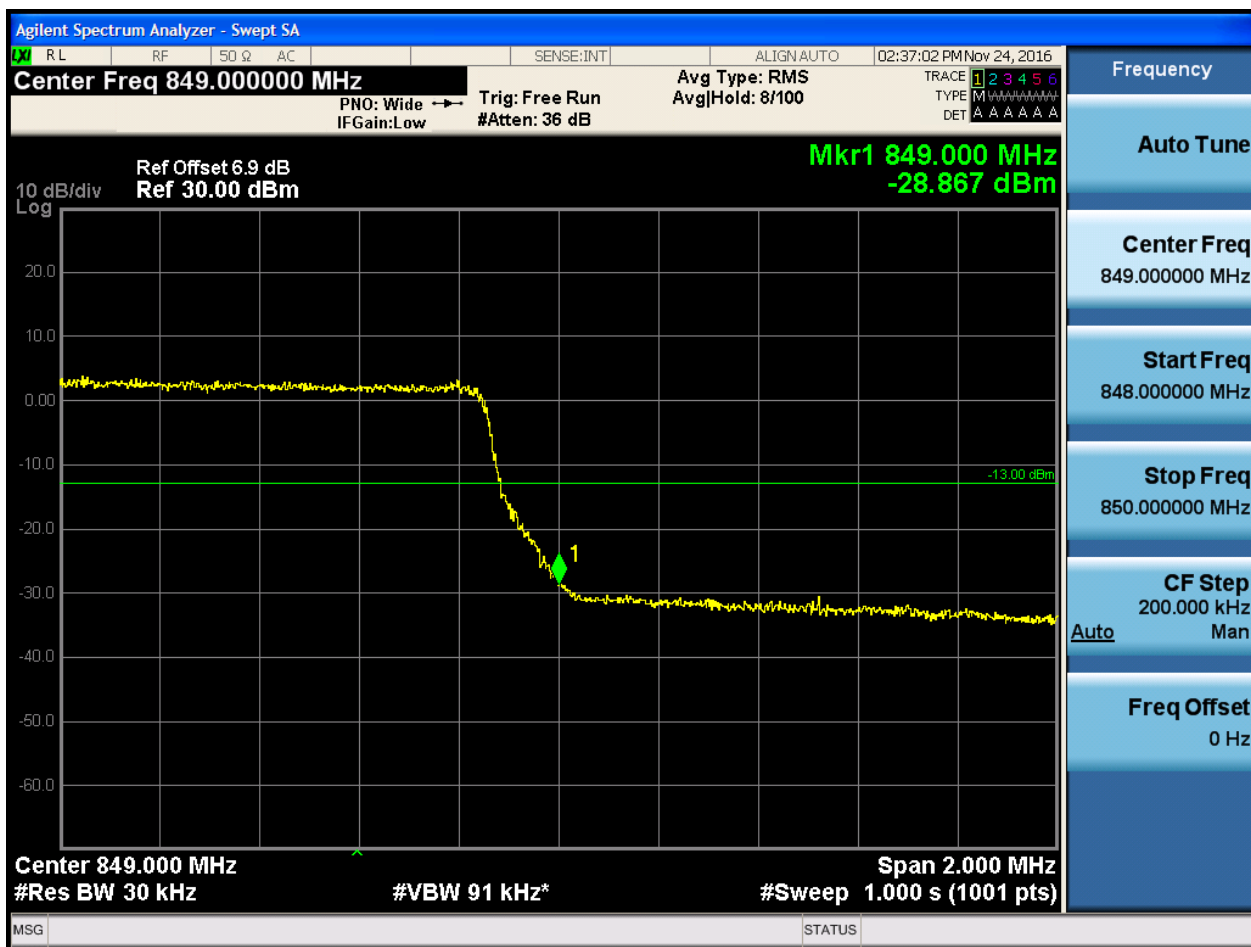


5.1.1.2.2.2.3 Test RB = RB8#4





5.1.1.2.2.4 Test RB = RB15#0

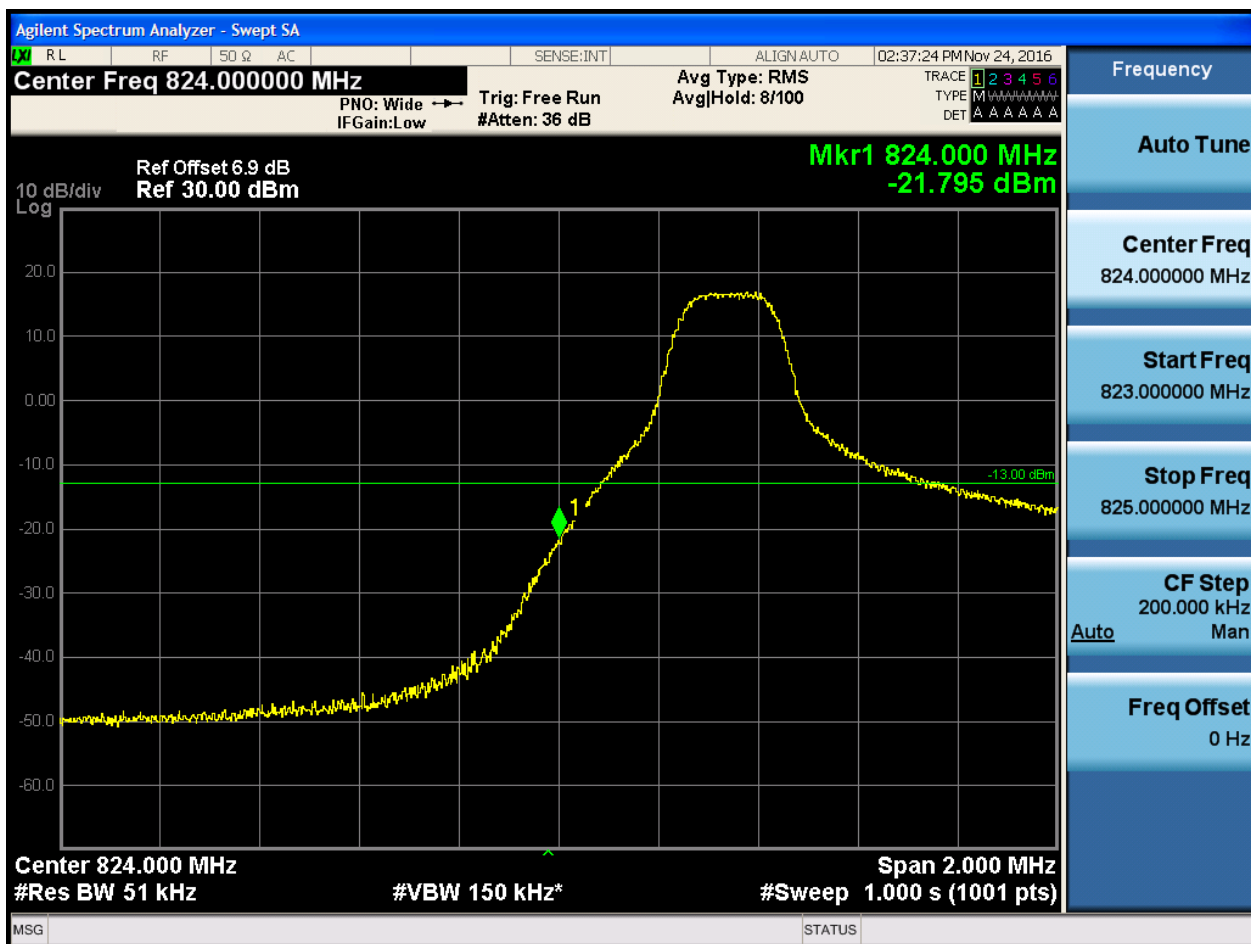




5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:37:38 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-39.386 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)

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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:37:53 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-32.241 dBm

10 dB/div
Log

-13.00 dBm

Center 824.000 MHz
#Res BW 51 kHz
#VBW 150 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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:38:08 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-29.605 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

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

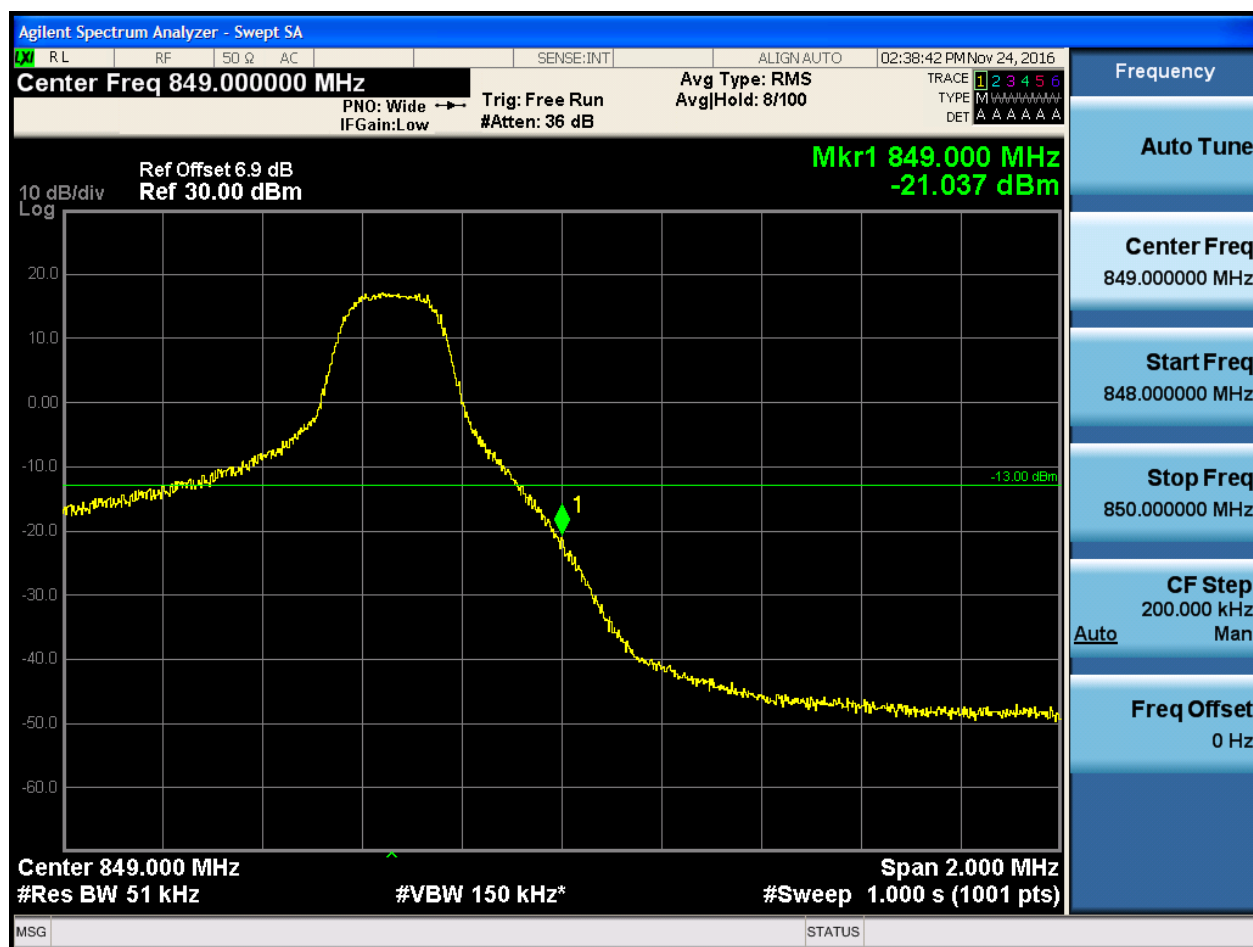


5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



5.1.1.2.3.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:38:57 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-32.754 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



5.1.1.2.3.2.4 Test RB = RB25#0

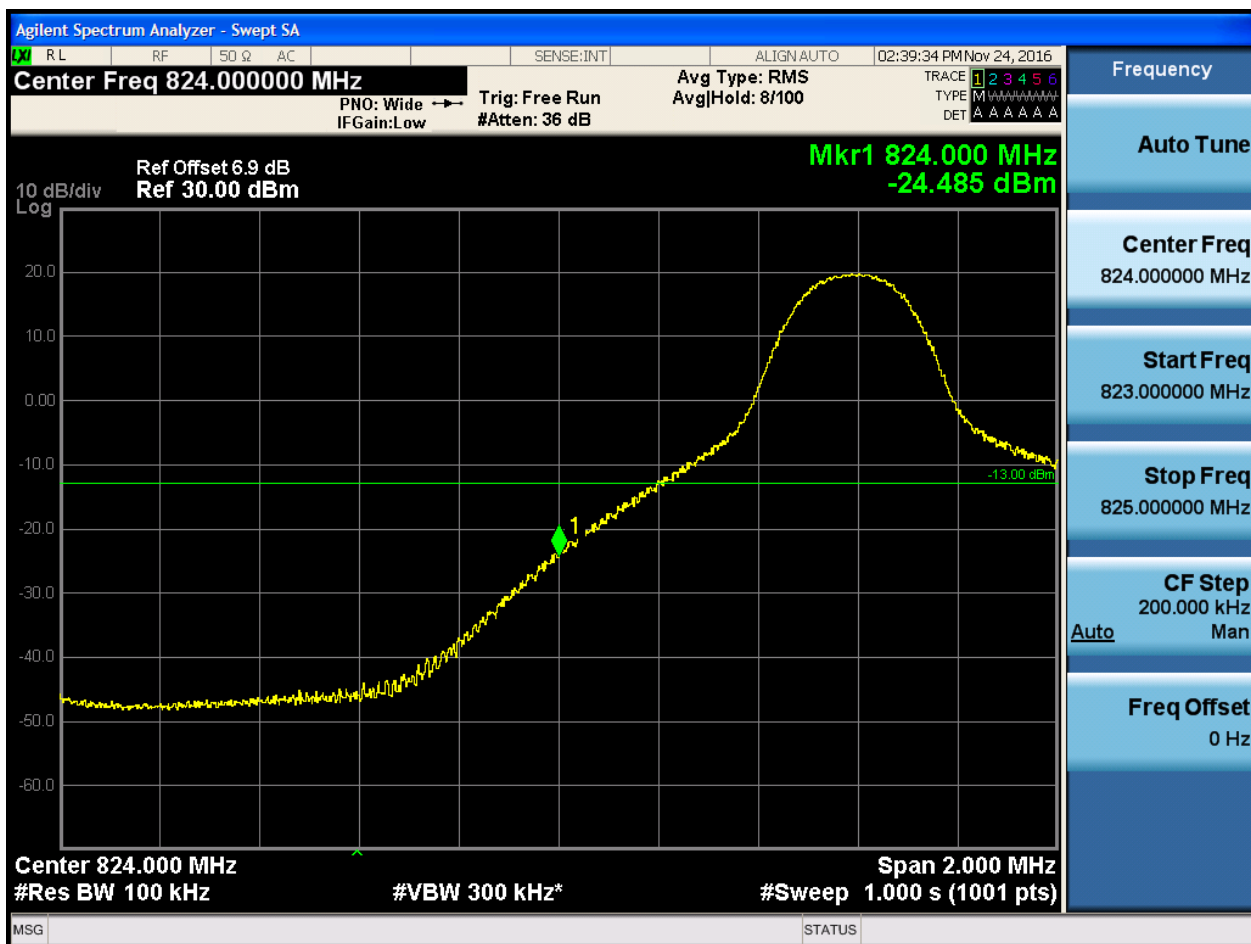




5.1.1.2.4 Test Bandwidth = 10

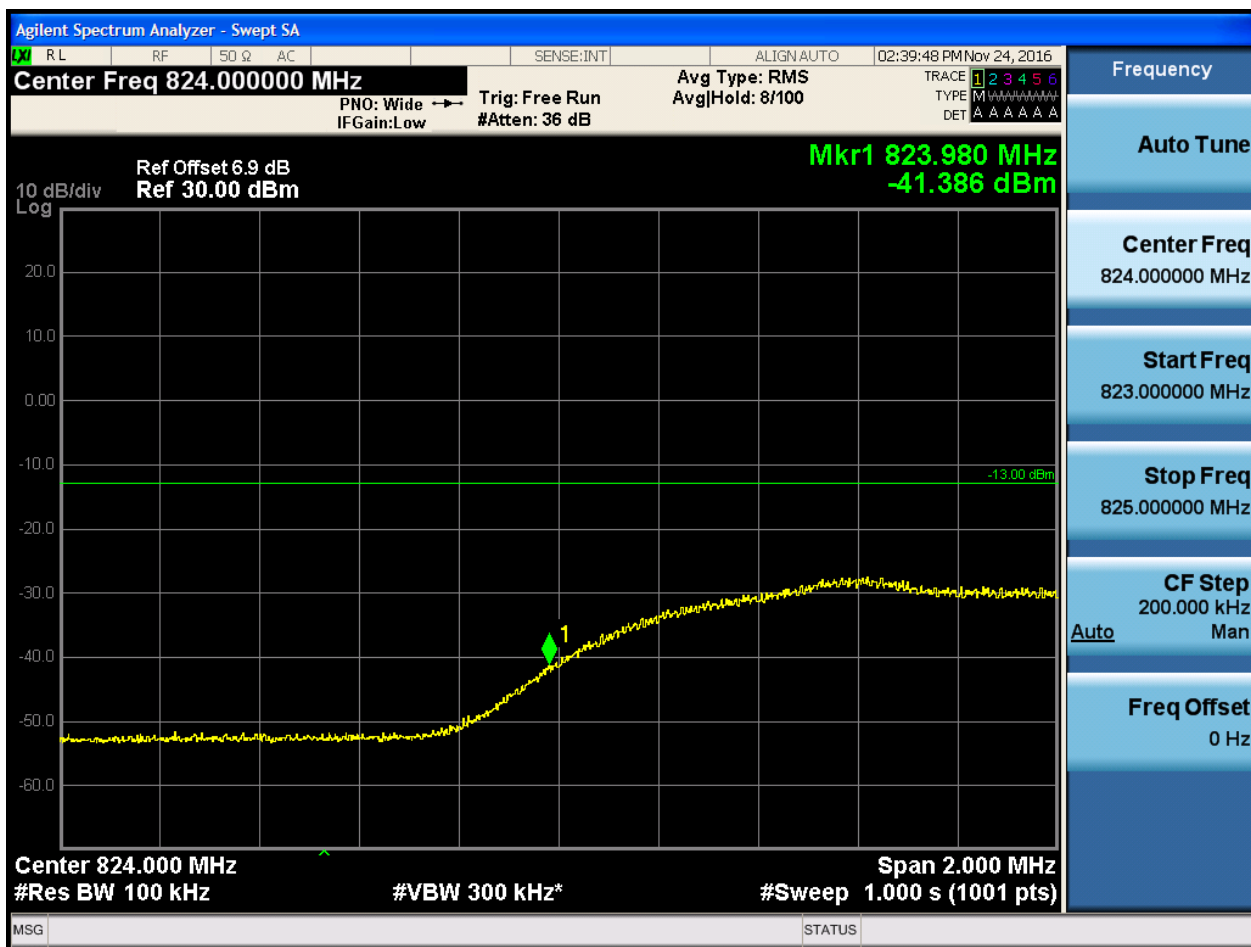
5.1.1.2.4.1 Test Channel = LCH

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 824.000000 MHz

Ref Offset 6.9 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 823.990 MHz
-32.881 dBm

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 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

MSG STATUS



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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:40:52 PM Nov 24, 2016

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 6.9 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-24.464 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



Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz Avg Type: RMS Ref Offset 6.9 dB Ref 30.00 dBm

PNO: Wide → Trig: Free Run IF Gain: Low #Atten: 36 dB Span 2.000 MHz

10 dB/div Log Mkr1 849.020 MHz -32.052 dBm

The spectrum plot shows a wideband noise floor starting around -28 dBm at 848 MHz and decreasing to about -38 dBm at 850 MHz. A green horizontal reference line is set at -13.00 dBm. The x-axis represents frequency from 848 MHz to 850 MHz, and the y-axis represents power level from -60 dBm to 20 dBm.

Parameter	Value
Frequency	849.000000 MHz
Auto Tune	On
Center Freq	849.000000 MHz
Start Freq	848.000000 MHz
Stop Freq	850.000000 MHz
CF Step	200.000 kHz
Freq Offset	0 Hz
Center	849.000 MHz
#Res BW	100 kHz
#VBW	300 kHz*
#Sweep	1.000 s (1001 pts)



5.1.1.2.4.2.4 Test RB = RB50#0



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

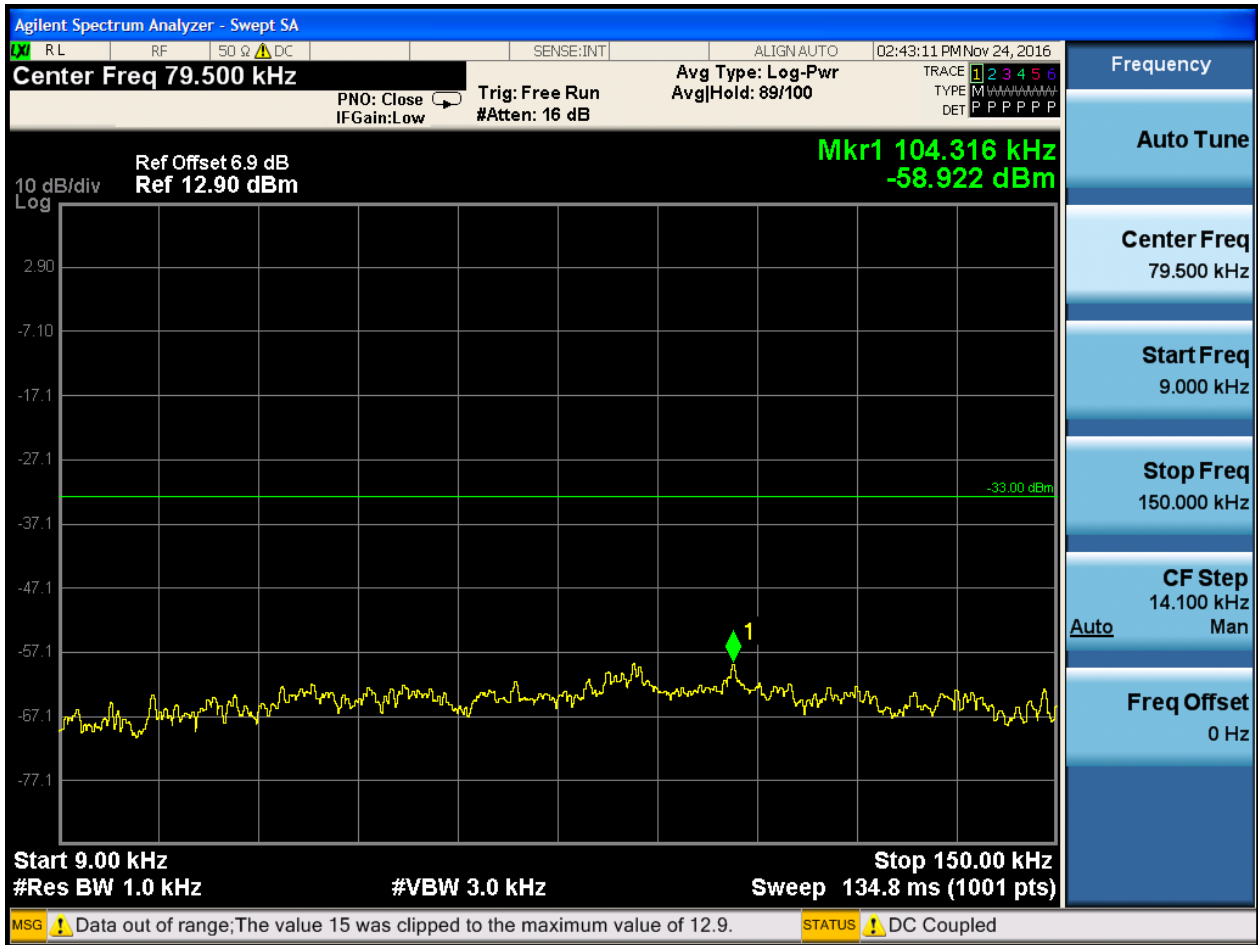
6.1.1 Test Band = BAND5

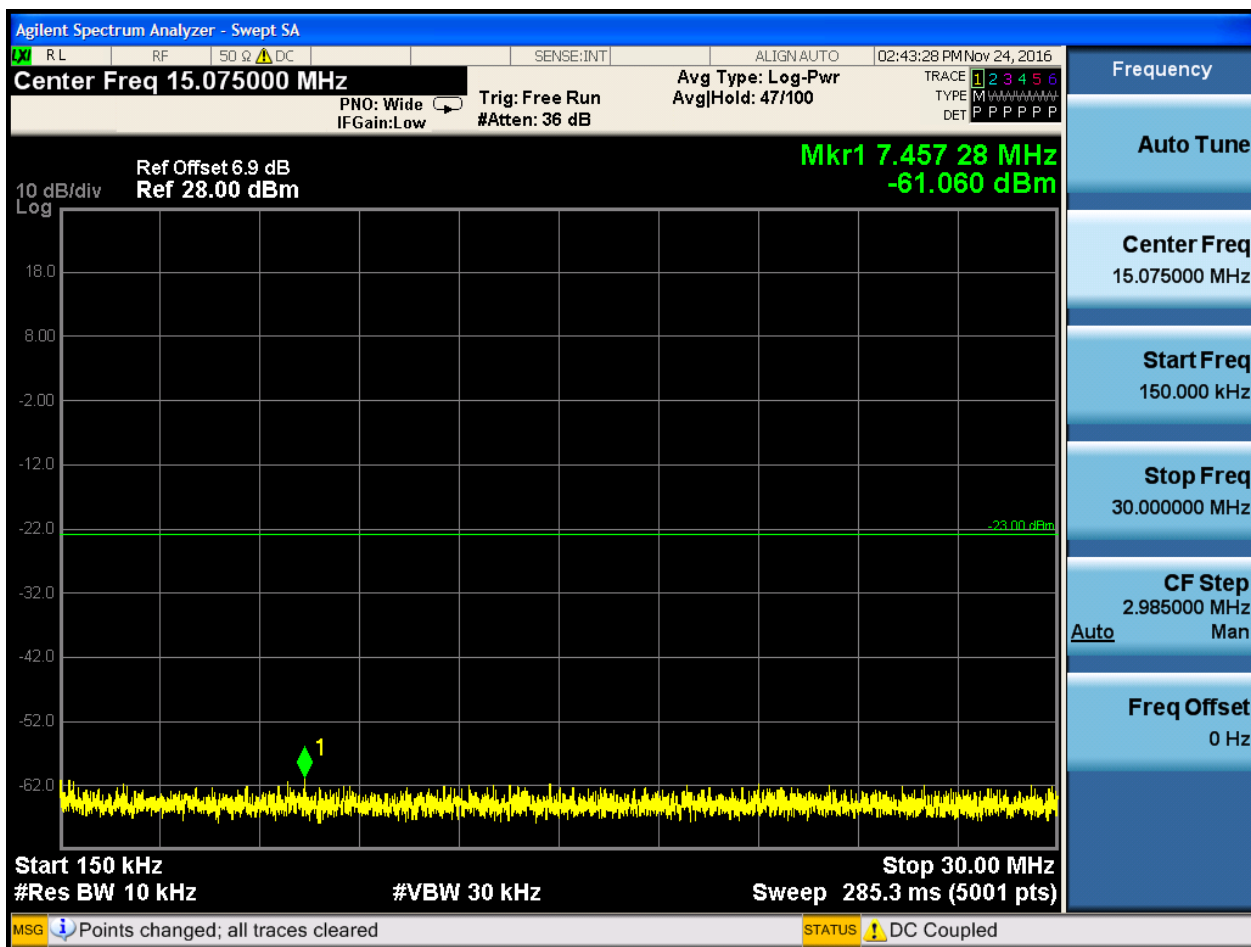
6.1.1.1 Test Mode = LTE/TM1

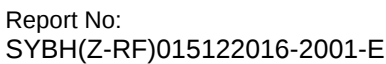
6.1.1.1.1 Test Bandwidth = 1.4

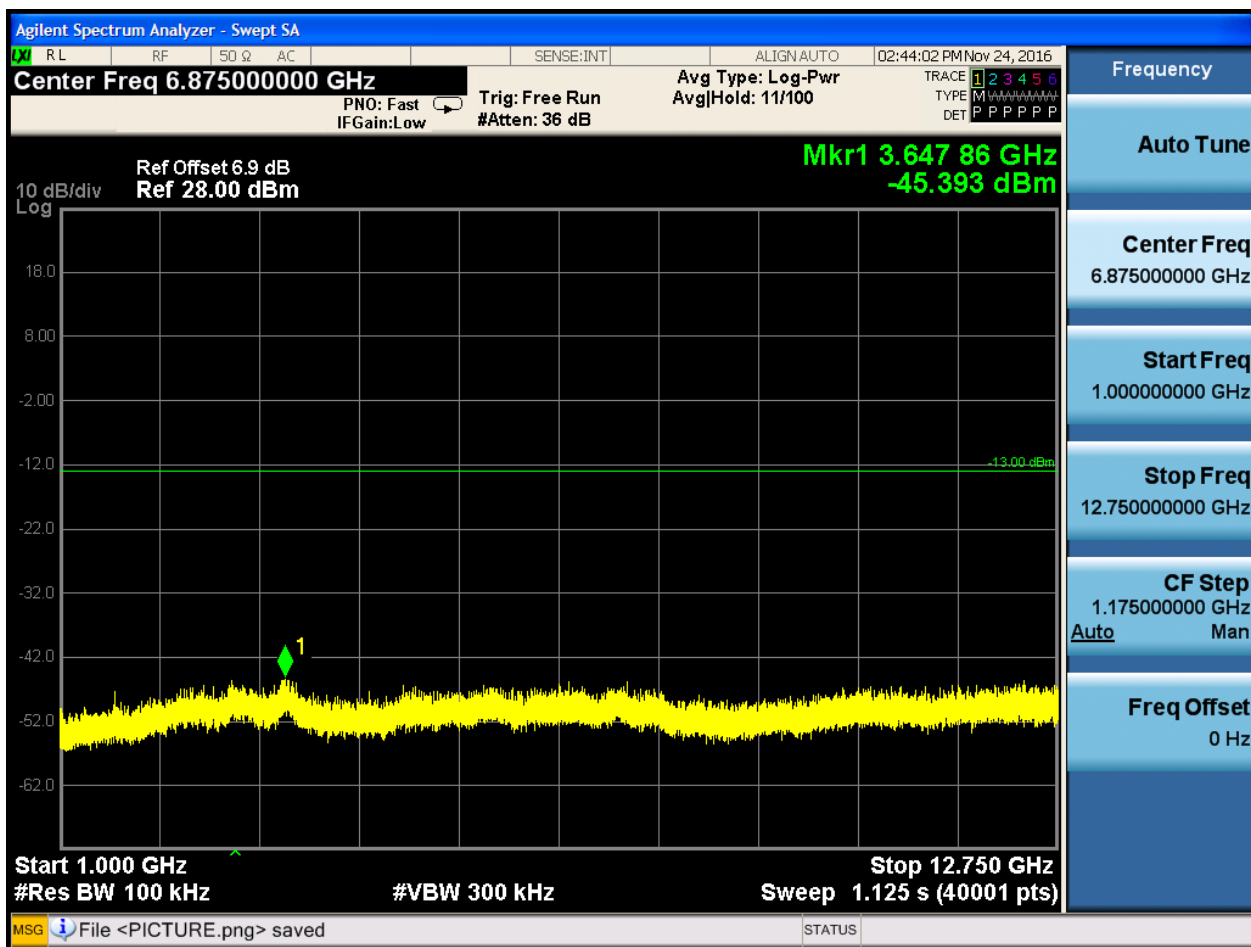
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0





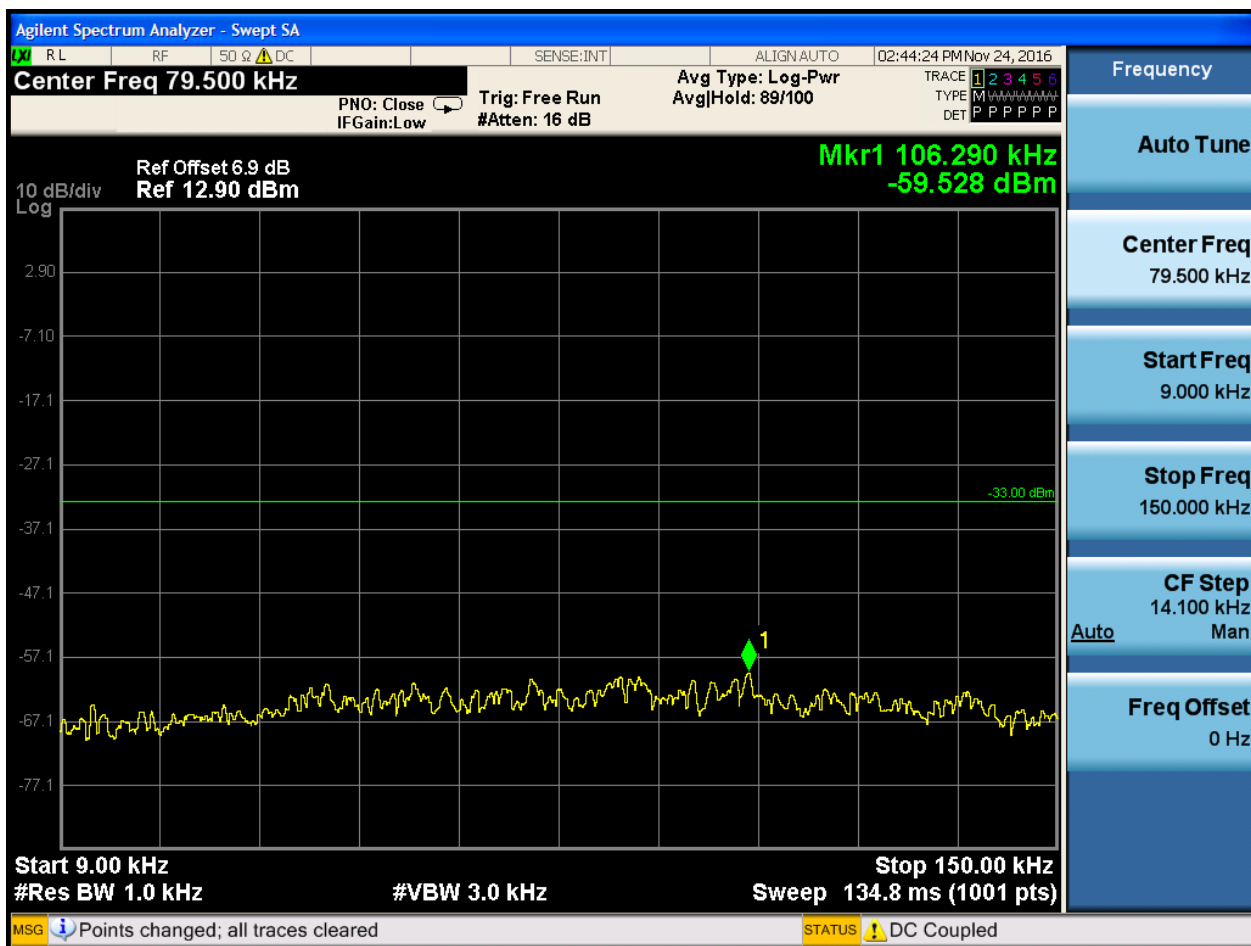


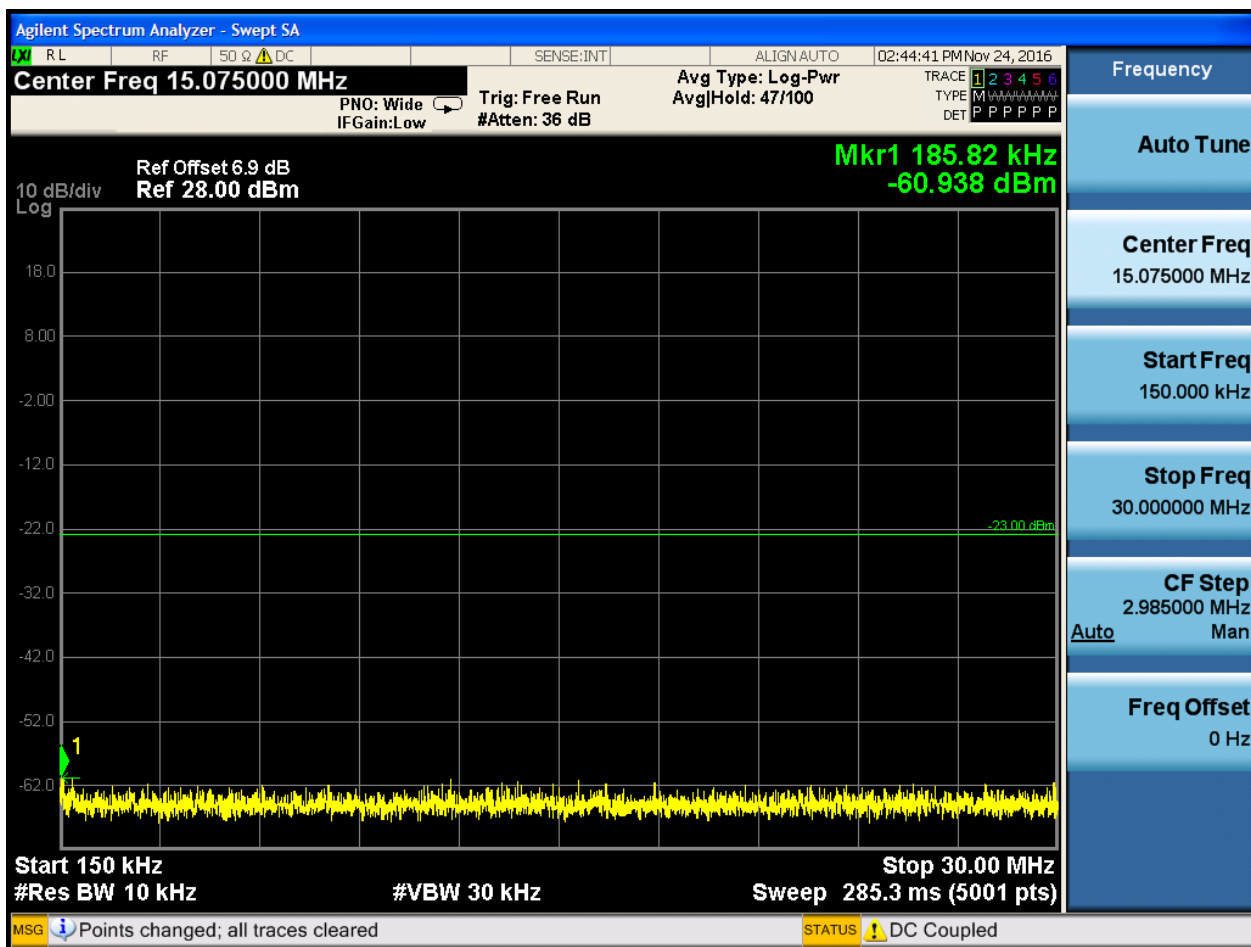


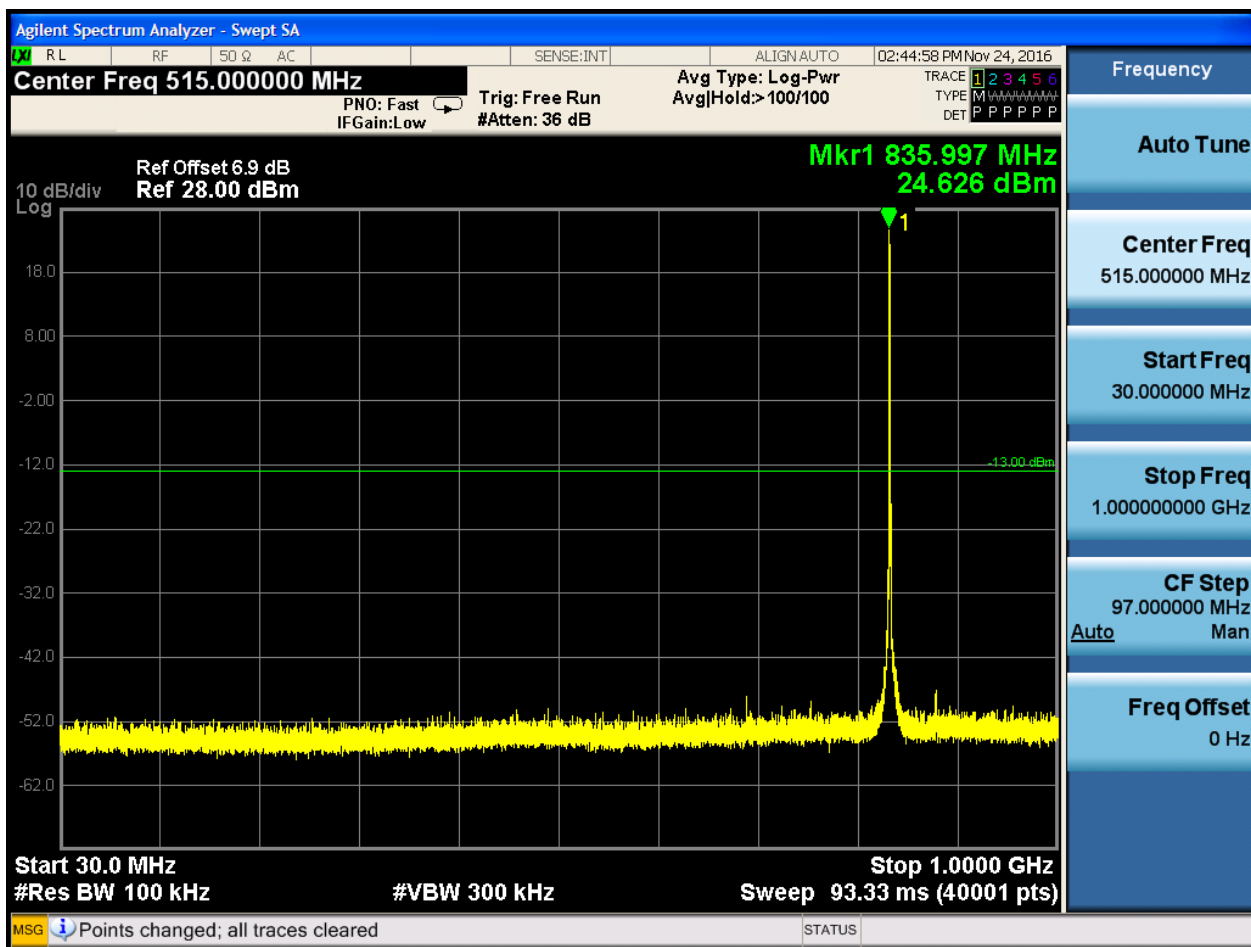


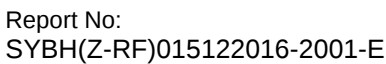
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





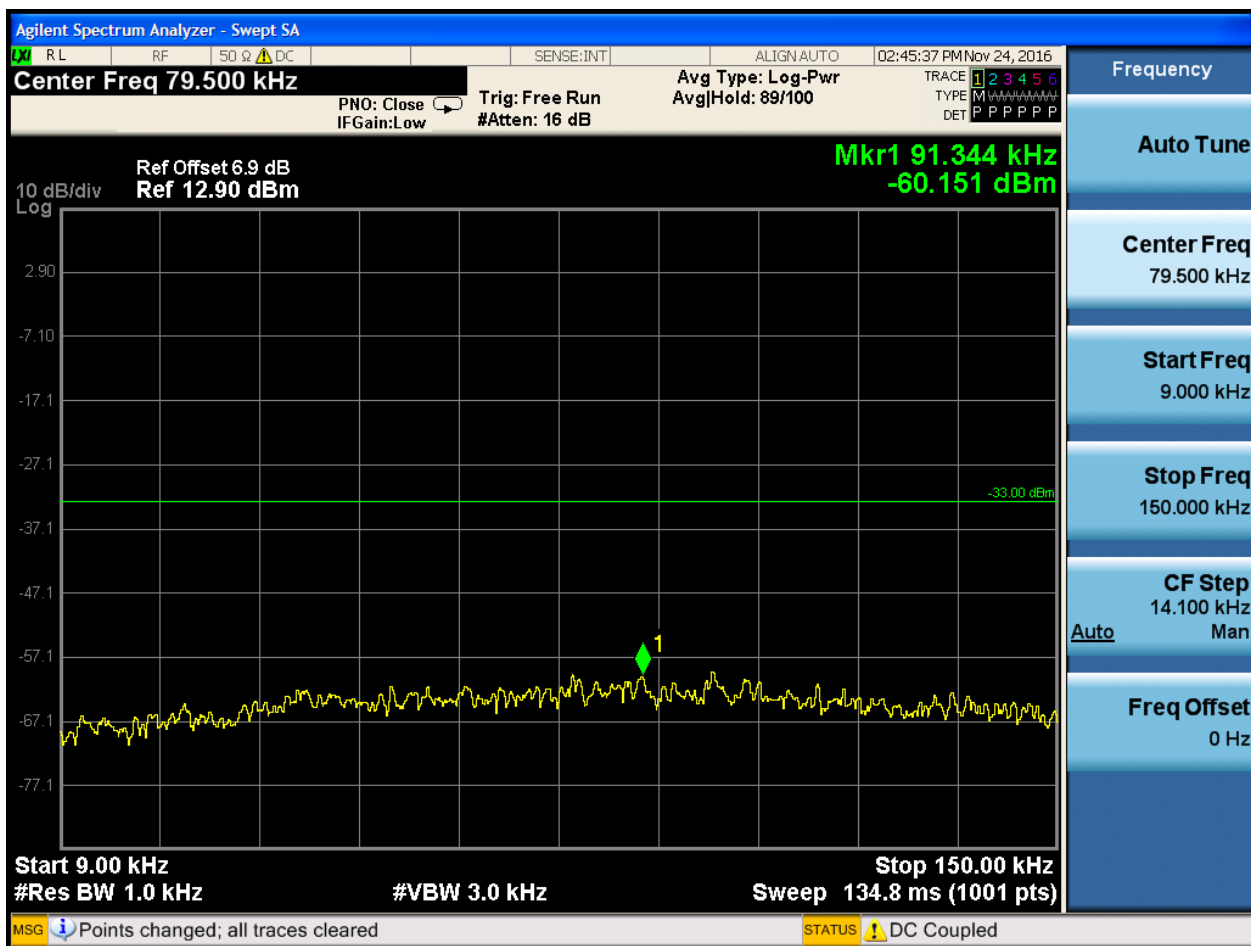


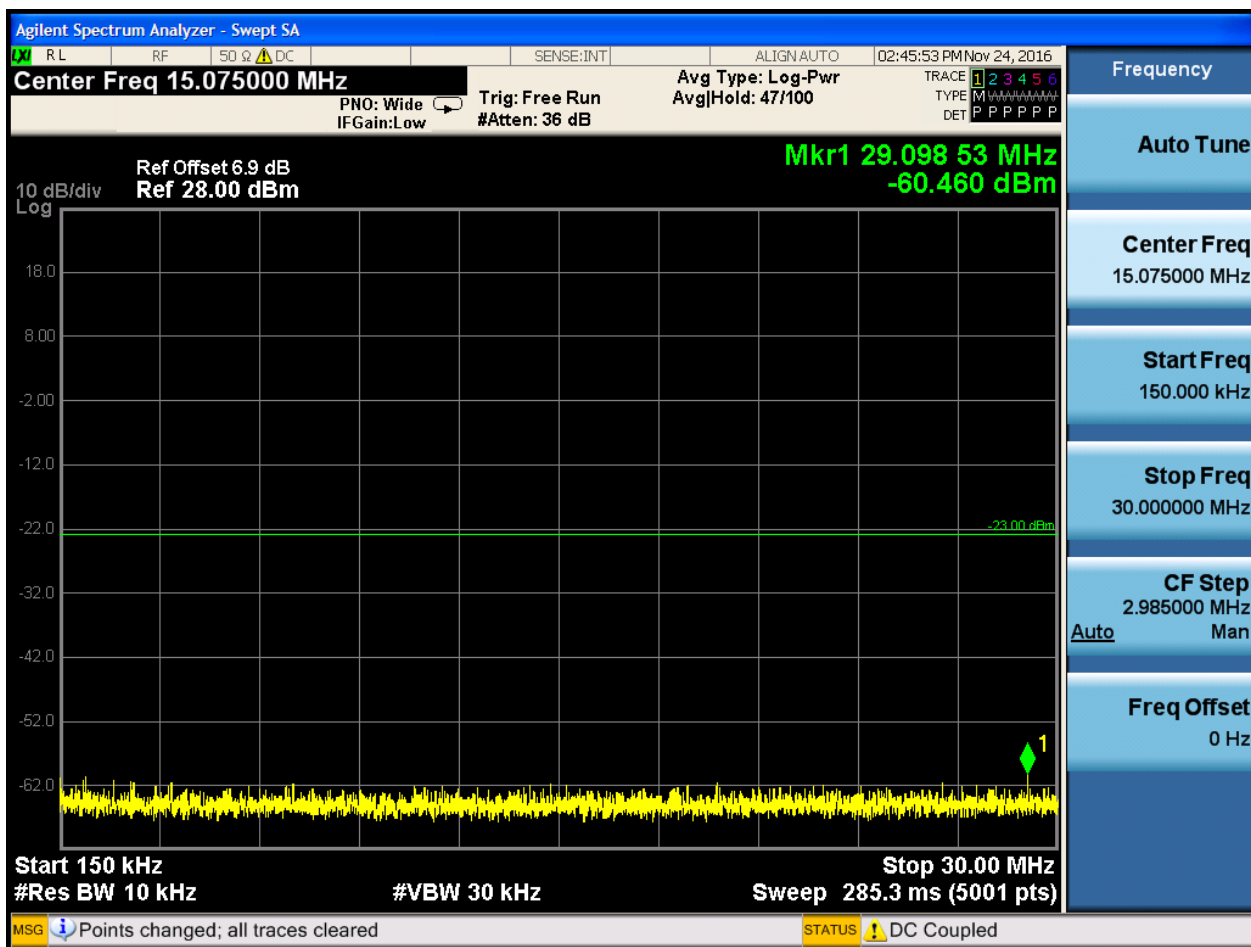


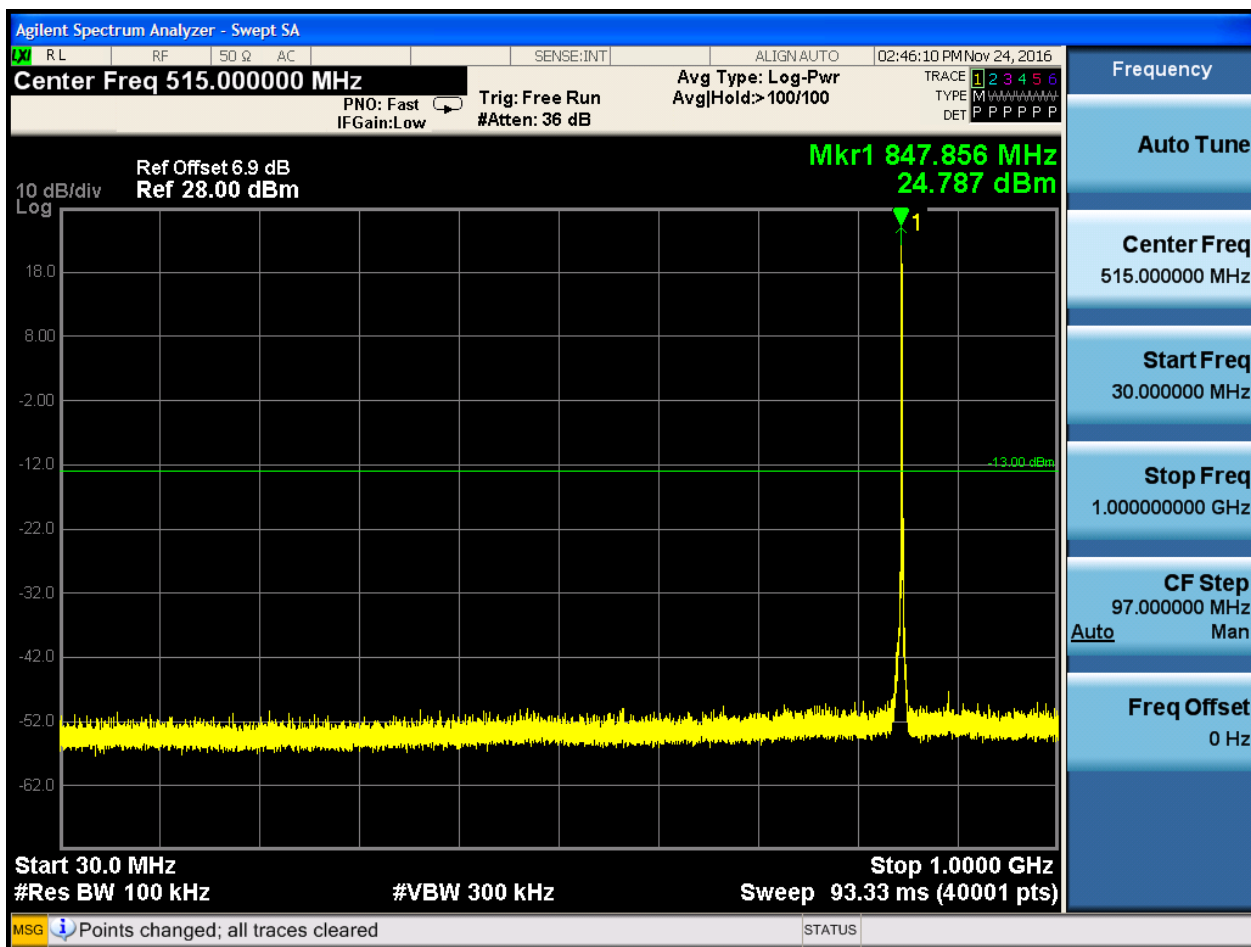


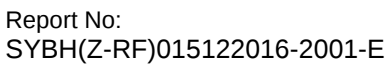
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





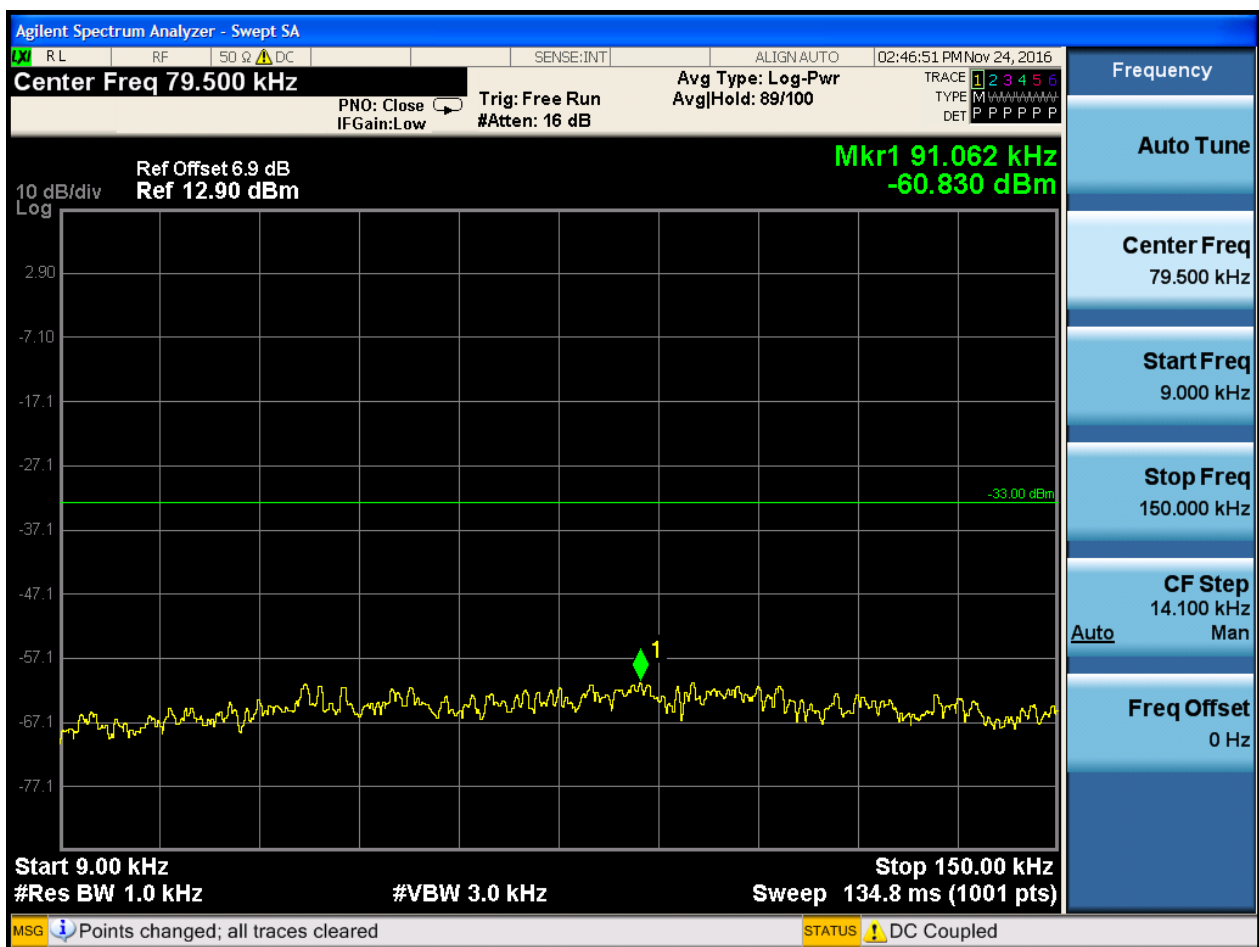


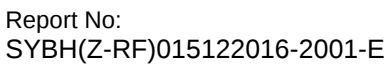


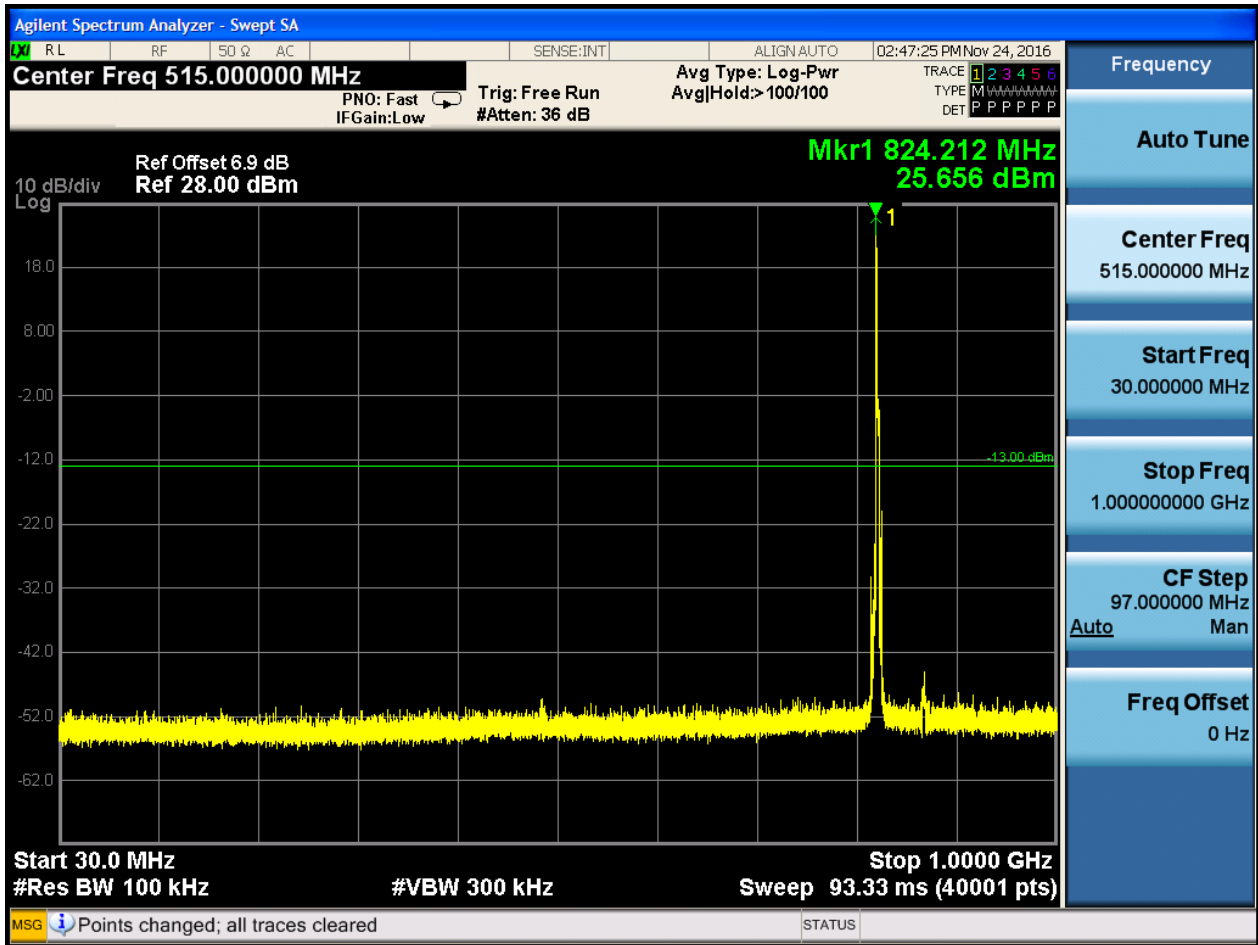
6.1.1.1.2 Test Bandwidth = 3

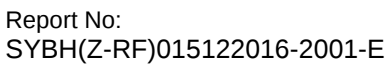
6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0











6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

