



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	23.39	19.79	38.5	PASS
				RB1#3	23.43	19.83	38.5	PASS
				RB1#5	23.4	19.8	38.5	PASS
				RB3#0	23.35	19.75	38.5	PASS
				RB3#2	23.49	19.89	38.5	PASS
				RB3#3	23.48	19.88	38.5	PASS
			MCH	RB6#0	22.41	18.81	38.5	PASS
				RB1#0	23.06	19.46	38.5	PASS
				RB1#3	23.37	19.77	38.5	PASS
				RB1#5	23.45	19.85	38.5	PASS
				RB3#0	23.34	19.74	38.5	PASS
				RB3#2	23.43	19.83	38.5	PASS
				RB3#3	23.32	19.72	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB6#0	22.27	18.67	38.5	PASS
			HCH	RB1#0	23.24	19.64	38.5	PASS
				RB1#3	23.24	19.64	38.5	PASS
				RB1#5	23.07	19.47	38.5	PASS
				RB3#0	23.33	19.73	38.5	PASS
				RB3#2	23.3	19.7	38.5	PASS
				RB3#3	23.2	19.6	38.5	PASS
				RB6#0	22.25	18.65	38.5	PASS
		3	LCH	RB1#0	23.42	19.82	38.5	PASS
				RB1#7	23.58	19.98	38.5	PASS
				RB1#14	23.47	19.87	38.5	PASS
				RB8#0	22.39	18.79	38.5	PASS
				RB8#4	22.43	18.83	38.5	PASS
				RB8#7	22.42	18.82	38.5	PASS
				RB15#0	22.38	18.78	38.5	PASS
			MCH	RB1#0	23.42	19.82	38.5	PASS
				RB1#7	23.5	19.9	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#14	23.38	19.78	38.5	PASS
				RB8#0	22.43	18.83	38.5	PASS
				RB8#4	22.37	18.77	38.5	PASS
				RB8#7	22.4	18.8	38.5	PASS
				RB15#0	22.42	18.82	38.5	PASS
			HCH	RB1#0	23.37	19.77	38.5	PASS
				RB1#7	23.32	19.72	38.5	PASS
				RB1#14	23.42	19.82	38.5	PASS
				RB8#0	22.31	18.71	38.5	PASS
				RB8#4	22.27	18.67	38.5	PASS
				RB8#7	22.47	18.87	38.5	PASS
				RB15#0	22.38	18.78	38.5	PASS
		5	LCH	RB1#0	23.3	19.7	38.5	PASS
				RB1#13	23.38	19.78	38.5	PASS
				RB1#24	23.33	19.73	38.5	PASS
				RB12#0	22.36	18.76	38.5	PASS
				RB12#6	22.46	18.86	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#13	22.42	18.82	38.5	PASS
				RB25#0	22.37	18.77	38.5	PASS
			MCH	RB1#0	23.25	19.65	38.5	PASS
				RB1#13	23.21	19.61	38.5	PASS
				RB1#24	23.3	19.7	38.5	PASS
				RB12#0	22.42	18.82	38.5	PASS
				RB12#6	22.45	18.85	38.5	PASS
				RB12#13	22.41	18.81	38.5	PASS
				RB25#0	22.37	18.77	38.5	PASS
			HCH	RB1#0	23.02	19.42	38.5	PASS
				RB1#13	23.13	19.53	38.5	PASS
				RB1#24	22.93	19.33	38.5	PASS
				RB12#0	22.35	18.75	38.5	PASS
				RB12#6	22.44	18.84	38.5	PASS
				RB12#13	22.29	18.69	38.5	PASS
				RB25#0	22.32	18.72	38.5	PASS
		10	LCH	RB1#0	23.41	19.81	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#25	23.88	20.28	38.5	PASS
				RB1#49	23.54	19.94	38.5	PASS
				RB25#0	22.47	18.87	38.5	PASS
				RB25#13	22.5	18.9	38.5	PASS
				RB25#25	22.39	18.79	38.5	PASS
				RB50#0	22.44	18.84	38.5	PASS
			MCH	RB1#0	23.32	19.72	38.5	PASS
				RB1#25	23.62	20.02	38.5	PASS
				RB1#49	23.49	19.89	38.5	PASS
				RB25#0	22.46	18.86	38.5	PASS
				RB25#13	22.48	18.88	38.5	PASS
				RB25#25	22.35	18.75	38.5	PASS
				RB50#0	22.37	18.77	38.5	PASS
			HCH	RB1#0	23.21	19.61	38.5	PASS
				RB1#25	23.65	20.05	38.5	PASS
				RB1#49	23.25	19.65	38.5	PASS
				RB25#0	22.43	18.83	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#13	22.45	18.85	38.5	PASS
				RB25#25	22.29	18.69	38.5	PASS
				RB50#0	22.31	18.71	38.5	PASS
	LTE/TM2	1.4	LCH	RB1#0	22.19	18.59	38.5	PASS
				RB1#3	22.29	18.69	38.5	PASS
				RB1#5	22.27	18.67	38.5	PASS
				RB3#0	22.45	18.85	38.5	PASS
				RB3#2	22.57	18.97	38.5	PASS
				RB3#3	22.55	18.95	38.5	PASS
				RB6#0	21.61	18.01	38.5	PASS
			MCH	RB1#0	22.61	19.01	38.5	PASS
				RB1#3	22.69	19.09	38.5	PASS
				RB1#5	22.63	19.03	38.5	PASS
				RB3#0	22.21	18.61	38.5	PASS
				RB3#2	22.42	18.82	38.5	PASS
				RB3#3	22.23	18.63	38.5	PASS
				RB6#0	21.23	17.63	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.43	17.83	38.5	PASS
				RB1#3	21.73	18.13	38.5	PASS
				RB1#5	22.13	18.53	38.5	PASS
				RB3#0	22.63	19.03	38.5	PASS
				RB3#2	22.46	18.86	38.5	PASS
				RB3#3	22.24	18.64	38.5	PASS
				RB6#0	21.07	17.47	38.5	PASS
		3	LCH	RB1#0	22.56	18.96	38.5	PASS
				RB1#7	22.48	18.88	38.5	PASS
				RB1#14	22.43	18.83	38.5	PASS
				RB8#0	21.26	17.66	38.5	PASS
				RB8#4	21.2	17.6	38.5	PASS
				RB8#7	21.21	17.61	38.5	PASS
				RB15#0	21.18	17.58	38.5	PASS
			MCH	RB1#0	22.29	18.69	38.5	PASS
				RB1#7	22.42	18.82	38.5	PASS
				RB1#14	22.52	18.92	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB8#0	21.42	17.82	38.5	PASS
				RB8#4	21.34	17.74	38.5	PASS
				RB8#7	21.28	17.68	38.5	PASS
				RB15#0	21.19	17.59	38.5	PASS
			HCH	RB1#0	22.22	18.62	38.5	PASS
				RB1#7	22.08	18.48	38.5	PASS
				RB1#14	22.22	18.62	38.5	PASS
				RB8#0	21.33	17.73	38.5	PASS
				RB8#4	21.22	17.62	38.5	PASS
				RB8#7	20.99	17.39	38.5	PASS
				RB15#0	20.97	17.37	38.5	PASS
		5	LCH	RB1#0	22.2	18.6	38.5	PASS
				RB1#13	21.92	18.32	38.5	PASS
				RB1#24	21.77	18.17	38.5	PASS
				RB12#0	21.18	17.58	38.5	PASS
				RB12#6	21.13	17.53	38.5	PASS
				RB12#13	21.33	17.73	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.41	17.81	38.5	PASS
			MCH	RB1#0	21.86	18.26	38.5	PASS
				RB1#13	21.87	18.27	38.5	PASS
				RB1#24	21.6	18	38.5	PASS
				RB12#0	21.29	17.69	38.5	PASS
				RB12#6	21.13	17.53	38.5	PASS
				RB12#13	21.08	17.48	38.5	PASS
				RB25#0	21.39	17.79	38.5	PASS
			HCH	RB1#0	22.29	18.69	38.5	PASS
				RB1#13	22.28	18.68	38.5	PASS
				RB1#24	22.17	18.57	38.5	PASS
				RB12#0	21.26	17.66	38.5	PASS
				RB12#6	21.27	17.67	38.5	PASS
				RB12#13	21.1	17.5	38.5	PASS
				RB25#0	21.12	17.52	38.5	PASS
		10	LCH	RB1#0	22.51	18.91	38.5	PASS
				RB1#25	22.41	18.81	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#49	21.64	18.04	38.5	PASS
				RB25#0	21.25	17.65	38.5	PASS
				RB25#13	21.57	17.97	38.5	PASS
				RB25#25	21.29	17.69	38.5	PASS
				RB50#0	21.34	17.74	38.5	PASS
			MCH	RB1#0	22.61	19.01	38.5	PASS
				RB1#25	22.76	19.16	38.5	PASS
				RB1#49	22.3	18.7	38.5	PASS
				RB25#0	21.57	17.97	38.5	PASS
				RB25#13	21.58	17.98	38.5	PASS
				RB25#25	21.45	17.85	38.5	PASS
				RB50#0	21.4	17.8	38.5	PASS
			HCH	RB1#0	21.99	18.39	38.5	PASS
				RB1#25	22.23	18.63	38.5	PASS
				RB1#49	22.16	18.56	38.5	PASS
				RB25#0	21.52	17.92	38.5	PASS
				RB25#13	21.52	17.92	38.5	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.26	17.66	38.5	PASS
				RB50#0	21.29	17.69	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:

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

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

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

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

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	3.76	13	PASS
				RB1#3	3.71	13	PASS
				RB1#5	3.78	13	PASS
				RB3#0	4.18	13	PASS
				RB3#2	4.13	13	PASS
				RB3#3	4.14	13	PASS
				RB6#0	5.23	13	PASS
			MCH	RB1#0	3.79	13	PASS
				RB1#3	3.7	13	PASS
				RB1#5	3.75	13	PASS
				RB3#0	4.08	13	PASS
				RB3#2	3.95	13	PASS
				RB3#3	4.01	13	PASS
				RB6#0	5.07	13	PASS
			HCH	RB1#0	3.75	13	PASS
				RB1#3	3.72	13	PASS
				RB1#5	3.77	13	PASS
				RB3#0	3.99	13	PASS
				RB3#2	3.8	13	PASS
				RB3#3	3.91	13	PASS
				RB6#0	4.98	13	PASS
		3	LCH	RB1#0	3.86	13	PASS
				RB1#7	3.8	13	PASS
				RB1#14	3.95	13	PASS
				RB8#0	4.81	13	PASS
				RB8#4	4.75	13	PASS
				RB8#7	4.88	13	PASS
				RB15#0	5.14	13	PASS
			MCH	RB1#0	3.89	13	PASS
				RB1#7	3.76	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#14	3.78	13	PASS
				RB8#0	4.65	13	PASS
				RB8#4	4.52	13	PASS
				RB8#7	4.63	13	PASS
				RB15#0	5.19	13	PASS
			HCH	RB1#0	3.89	13	PASS
				RB1#7	3.61	13	PASS
				RB1#14	3.53	13	PASS
				RB8#0	4.69	13	PASS
				RB8#4	4.58	13	PASS
				RB8#7	4.59	13	PASS
				RB15#0	5.06	13	PASS
		5	LCH	RB1#0	3.88	13	PASS
				RB1#13	3.94	13	PASS
				RB1#24	3.91	13	PASS
				RB12#0	4.67	13	PASS
				RB12#6	4.66	13	PASS
				RB12#13	4.75	13	PASS
				RB25#0	5.08	13	PASS
			MCH	RB1#0	3.92	13	PASS
				RB1#13	3.78	13	PASS
				RB1#24	3.78	13	PASS
				RB12#0	4.67	13	PASS
				RB12#6	4.49	13	PASS
				RB12#13	4.56	13	PASS
				RB25#0	5.18	13	PASS
			HCH	RB1#0	4.02	13	PASS
				RB1#13	3.9	13	PASS
				RB1#24	3.77	13	PASS
				RB12#0	4.71	13	PASS
				RB12#6	4.54	13	PASS
				RB12#13	4.57	13	PASS
				RB25#0	5.08	13	PASS
		10	LCH	RB1#0	3.84	13	PASS
				RB1#25	3.8	13	PASS
				RB1#49	3.92	13	PASS
				RB25#0	4.74	13	PASS
				RB25#13	4.75	13	PASS
				RB25#25	4.78	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.28	13	PASS
			MCH	RB1#0	4.07	13	PASS
				RB1#25	3.7	13	PASS
				RB1#49	3.82	13	PASS
				RB25#0	4.72	13	PASS
				RB25#13	4.59	13	PASS
				RB25#25	4.61	13	PASS
				RB50#0	5.11	13	PASS
			HCH	RB1#0	3.89	13	PASS
				RB1#25	3.73	13	PASS
				RB1#49	3.84	13	PASS
				RB25#0	4.7	13	PASS
				RB25#13	4.67	13	PASS
				RB25#25	4.68	13	PASS
				RB50#0	4.85	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	4.82	13	PASS
				RB1#3	4.82	13	PASS
				RB1#5	4.77	13	PASS
				RB3#0	5.2	13	PASS
				RB3#2	5.13	13	PASS
				RB3#3	5.28	13	PASS
				RB6#0	5.71	13	PASS
			MCH	RB1#0	4.78	13	PASS
				RB1#3	4.71	13	PASS
				RB1#5	4.72	13	PASS
				RB3#0	4.82	13	PASS
				RB3#2	4.59	13	PASS
				RB3#3	4.79	13	PASS
				RB6#0	5.71	13	PASS
			HCH	RB1#0	4.33	13	PASS
				RB1#3	4.5	13	PASS
				RB1#5	4.22	13	PASS
				RB3#0	4.79	13	PASS
				RB3#2	4.64	13	PASS
				RB3#3	4.77	13	PASS
				RB6#0	5.97	13	PASS
		3	LCH	RB1#0	4.63	13	PASS
				RB1#7	4.62	13	PASS
				RB1#14	4.84	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	5.66	13	PASS
				RB8#4	5.61	13	PASS
				RB8#7	5.64	13	PASS
				RB15#0	6.24	13	PASS
			MCH	RB1#0	4.84	13	PASS
				RB1#7	4.71	13	PASS
				RB1#14	4.8	13	PASS
				RB8#0	5.5	13	PASS
				RB8#4	5.52	13	PASS
				RB8#7	5.49	13	PASS
				RB15#0	5.98	13	PASS
			HCH	RB1#0	4.87	13	PASS
				RB1#7	4.5	13	PASS
				RB1#14	4.63	13	PASS
				RB8#0	5.61	13	PASS
				RB8#4	5.49	13	PASS
				RB8#7	5.52	13	PASS
				RB15#0	5.89	13	PASS
		5	LCH	RB1#0	5.06	13	PASS
				RB1#13	5.05	13	PASS
				RB1#24	5.21	13	PASS
				RB12#0	5.63	13	PASS
				RB12#6	5.61	13	PASS
				RB12#13	5.79	13	PASS
				RB25#0	6.11	13	PASS
			MCH	RB1#0	5	13	PASS
				RB1#13	4.83	13	PASS
				RB1#24	4.87	13	PASS
				RB12#0	5.61	13	PASS
				RB12#6	5.48	13	PASS
				RB12#13	5.53	13	PASS
				RB25#0	6.19	13	PASS
			HCH	RB1#0	4.76	13	PASS
				RB1#13	4.67	13	PASS
				RB1#24	4.61	13	PASS
				RB12#0	5.55	13	PASS
				RB12#6	5.43	13	PASS
				RB12#13	5.46	13	PASS
				RB25#0	6.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10	LCH	RB1#0	4.87	13	PASS
				RB1#25	4.85	13	PASS
				RB1#49	4.97	13	PASS
				RB25#0	5.84	13	PASS
				RB25#13	5.71	13	PASS
				RB25#25	5.84	13	PASS
				RB50#0	6.7	13	PASS
			MCH	RB1#0	5.05	13	PASS
				RB1#25	4.79	13	PASS
				RB1#49	4.91	13	PASS
				RB25#0	5.61	13	PASS
				RB25#13	5.41	13	PASS
				RB25#25	5.48	13	PASS
				RB50#0	6.28	13	PASS
			HCH	RB1#0	4.4	13	PASS
				RB1#25	4.46	13	PASS
				RB1#49	4.35	13	PASS
				RB25#0	5.5	13	PASS
				RB25#13	5.52	13	PASS
				RB25#25	5.65	13	PASS
				RB50#0	6.16	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

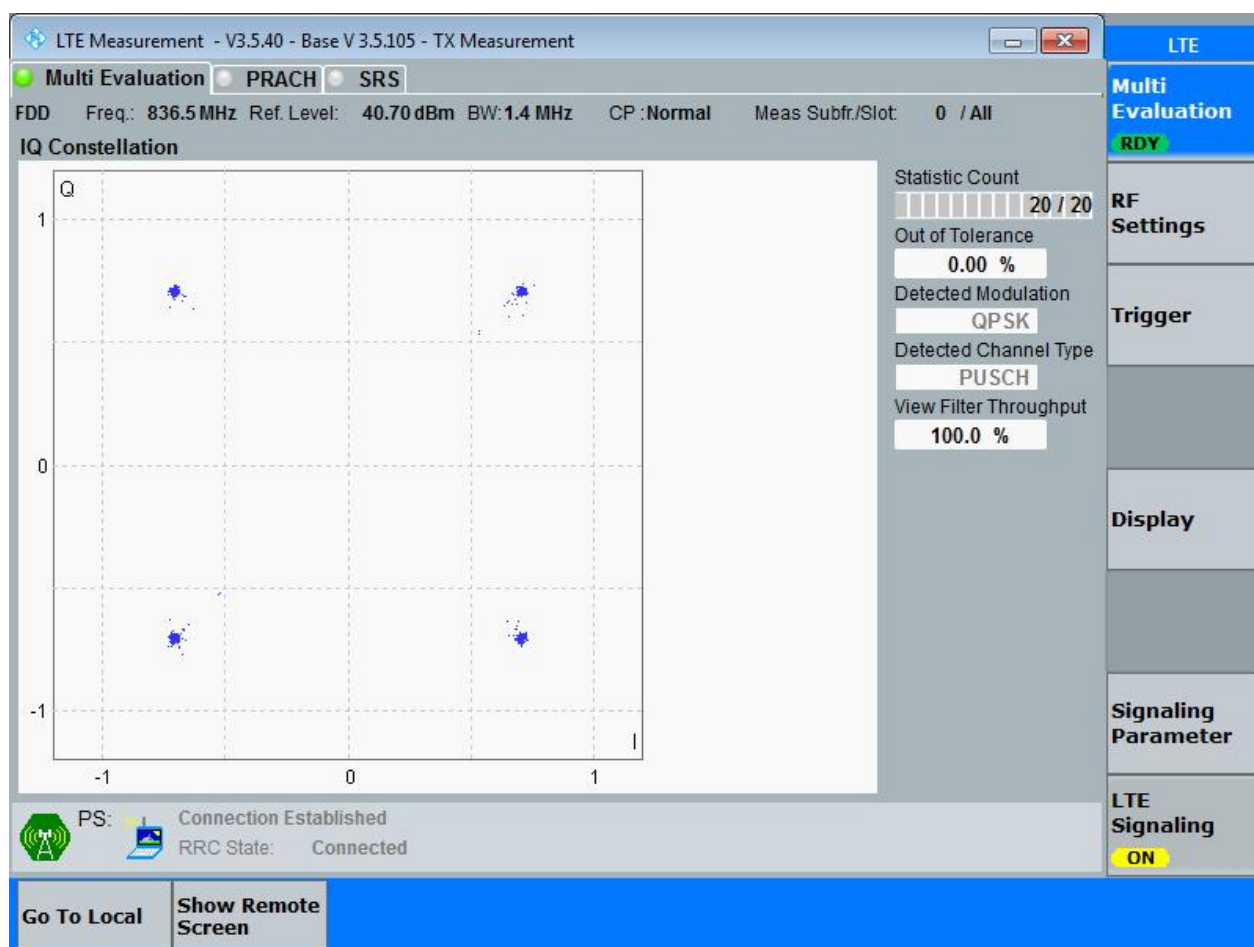
3.1.1 Test Band = BAND5

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

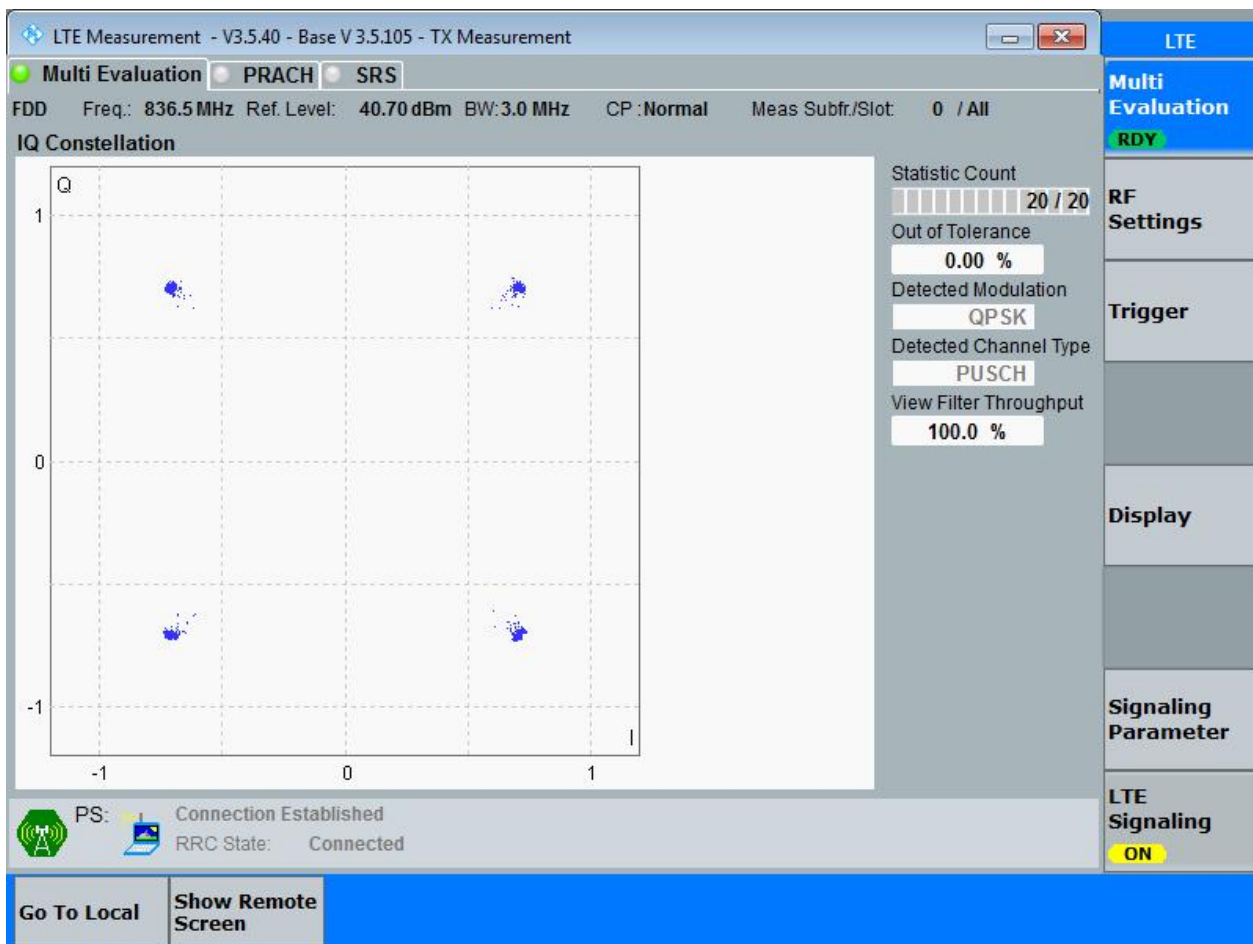
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

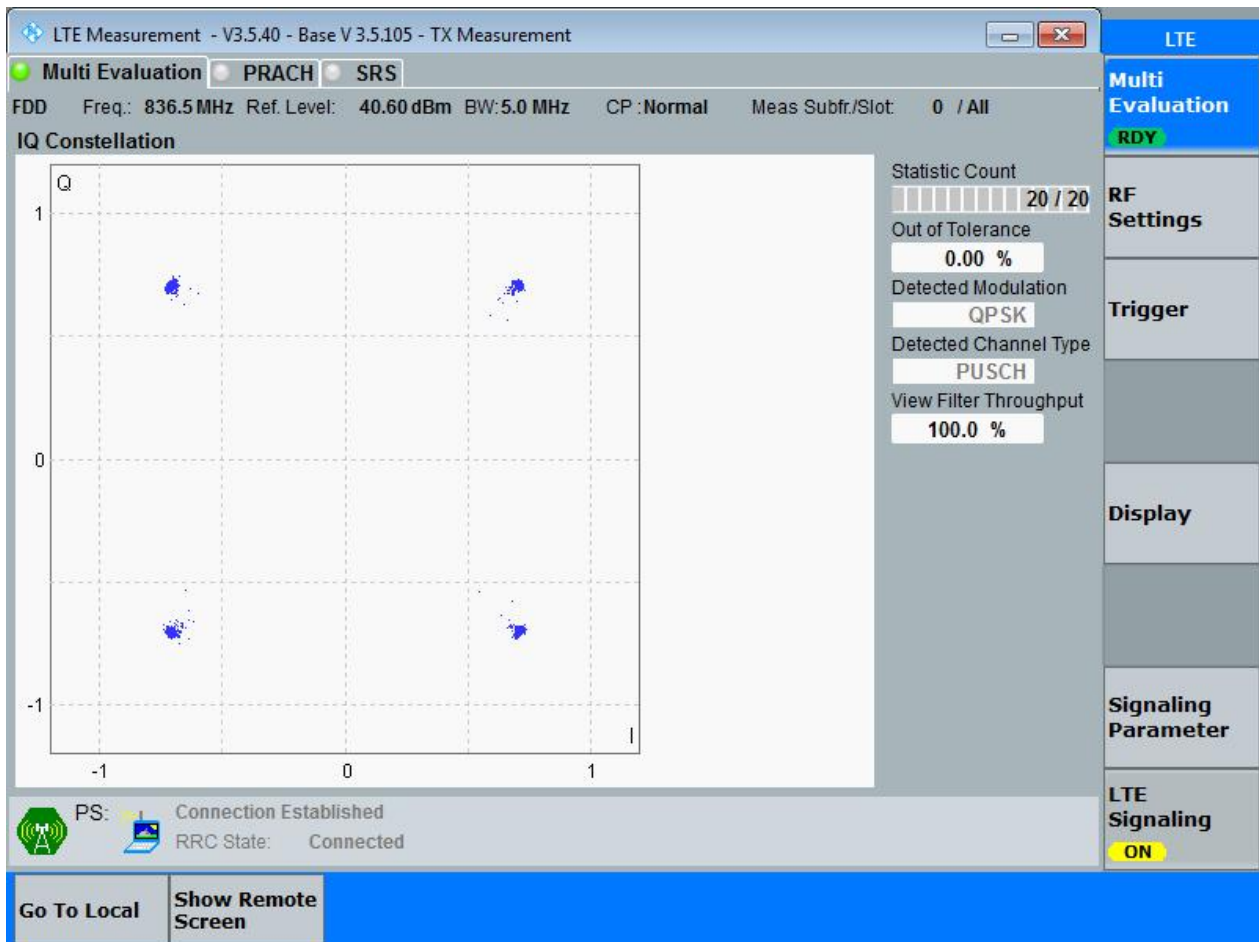
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

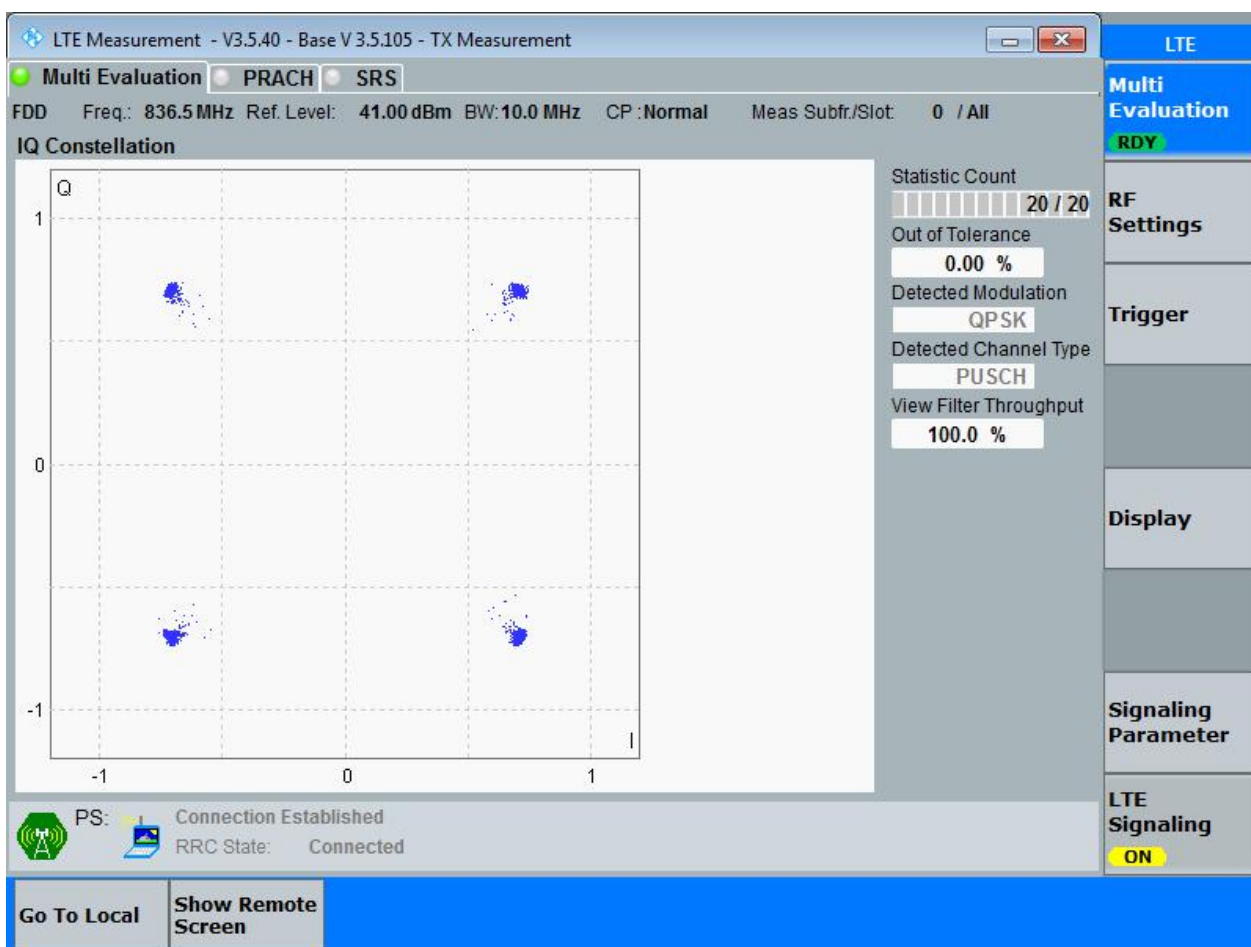
3.1.1.1.3.1.1 Test RB = RB25#0



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

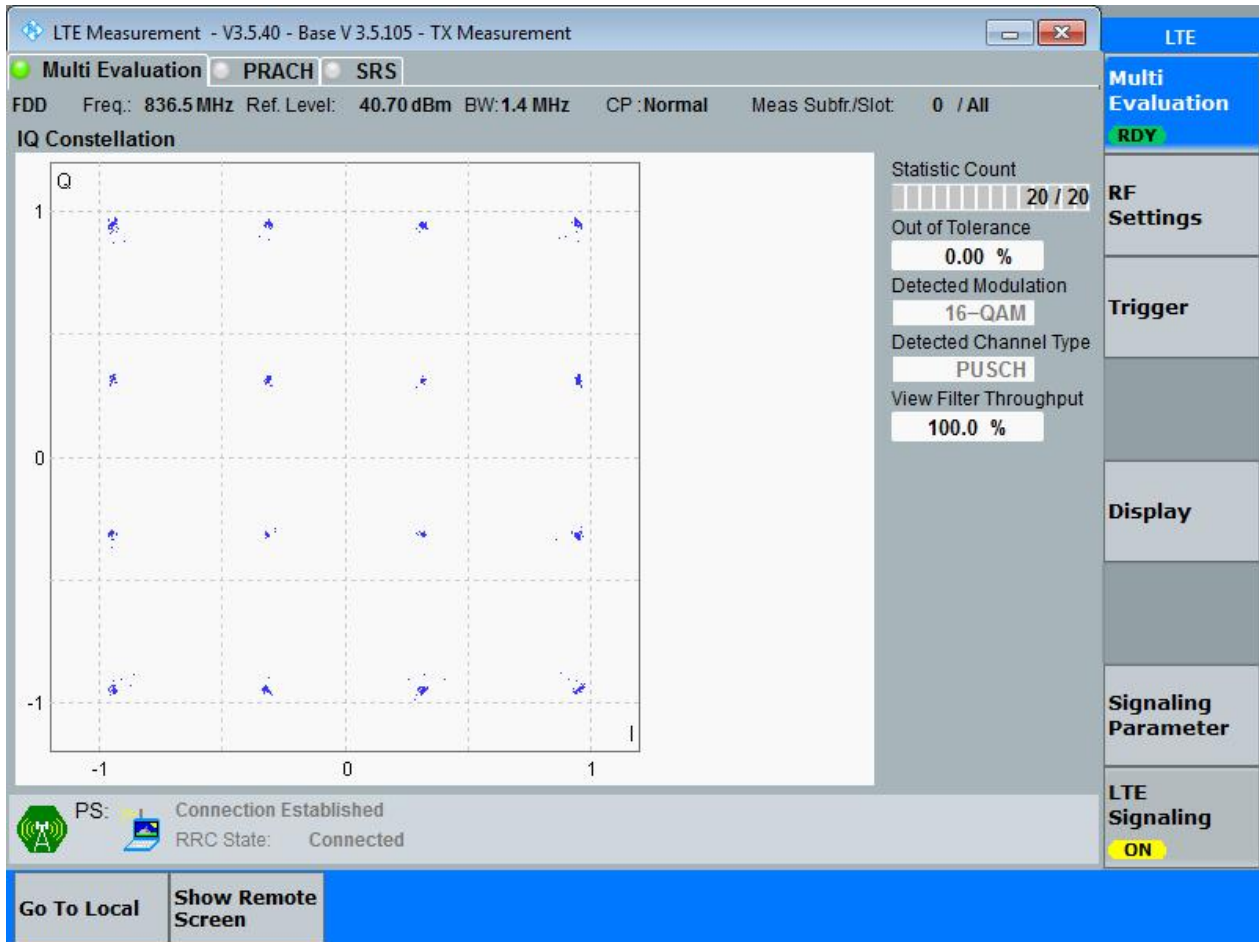


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

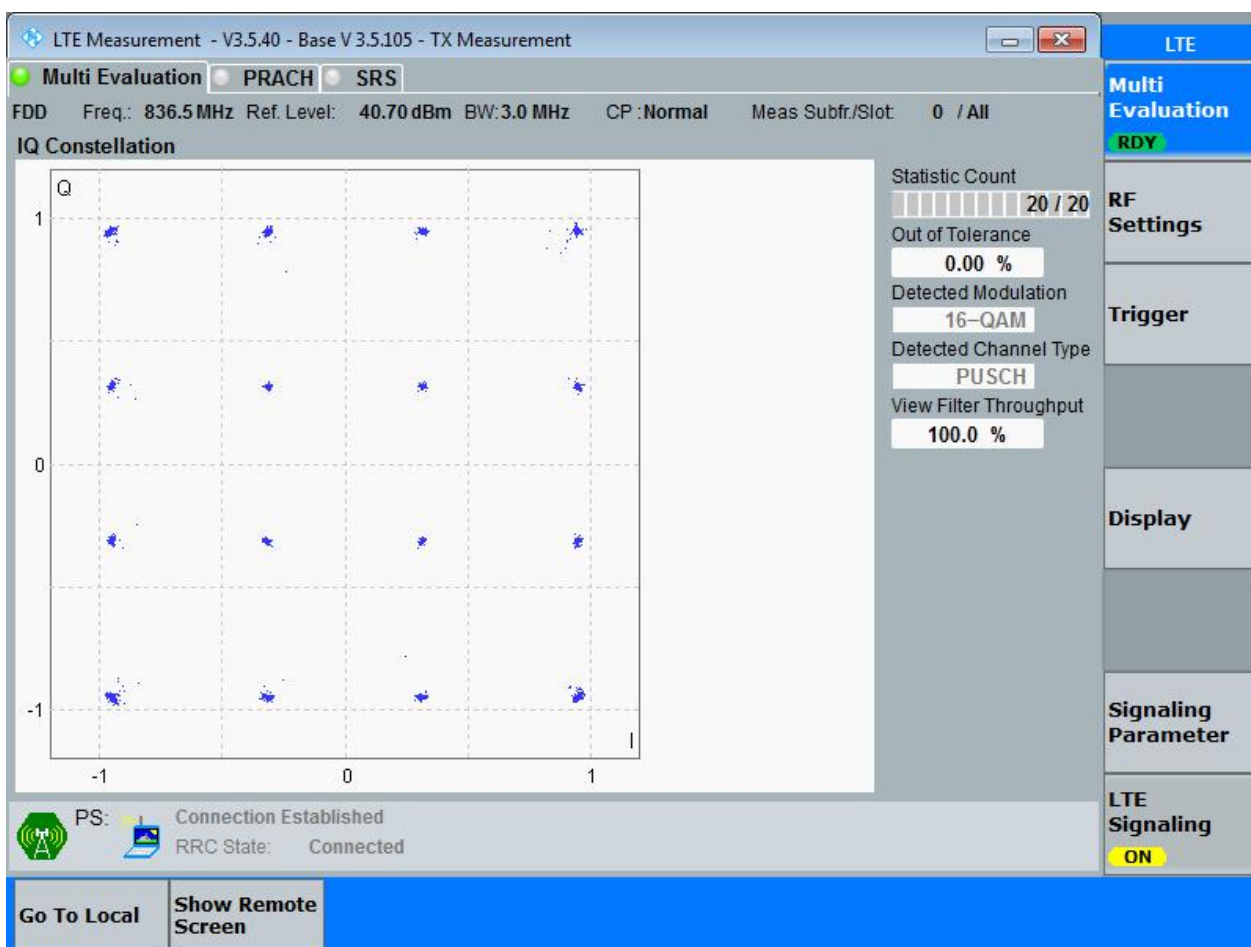
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

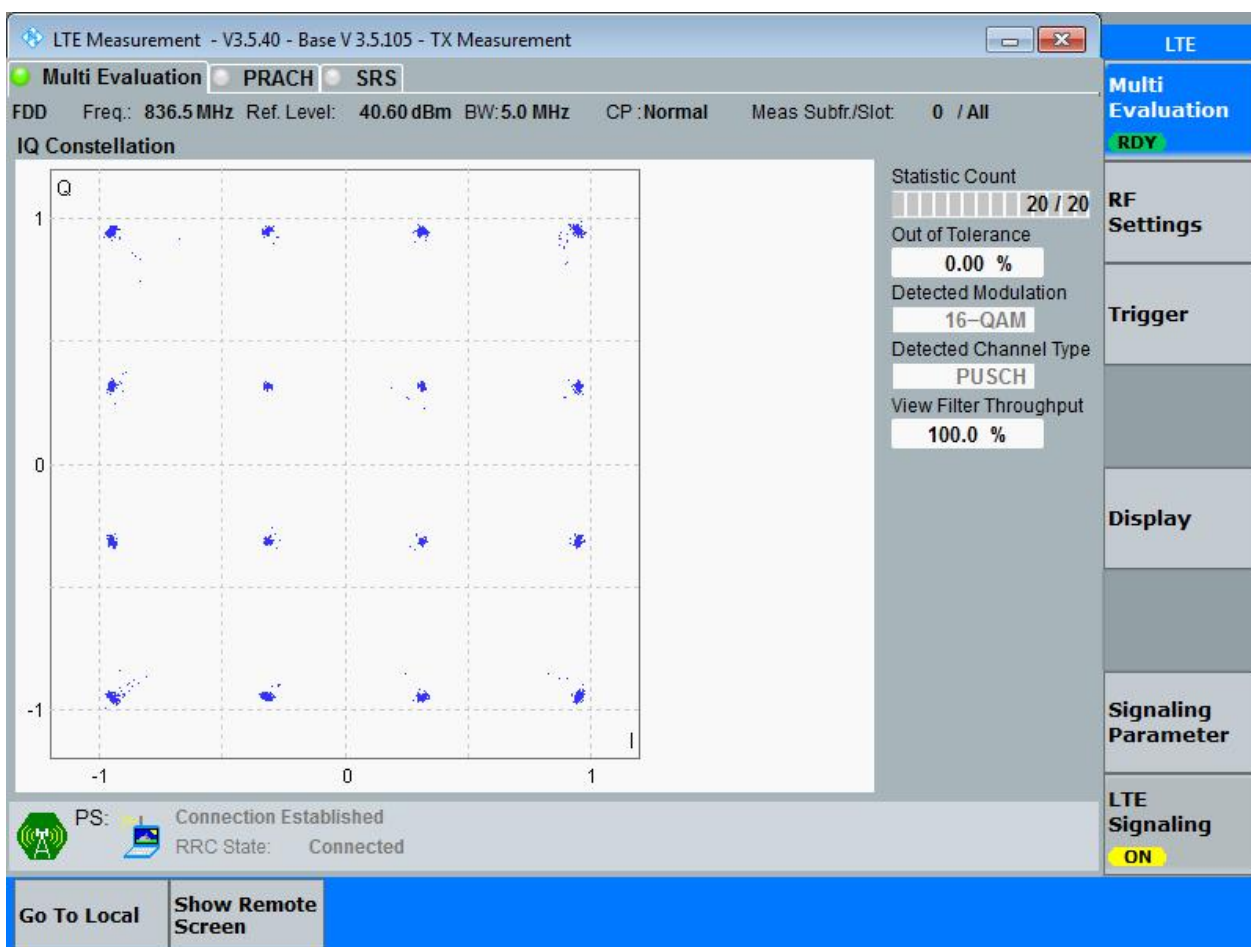
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

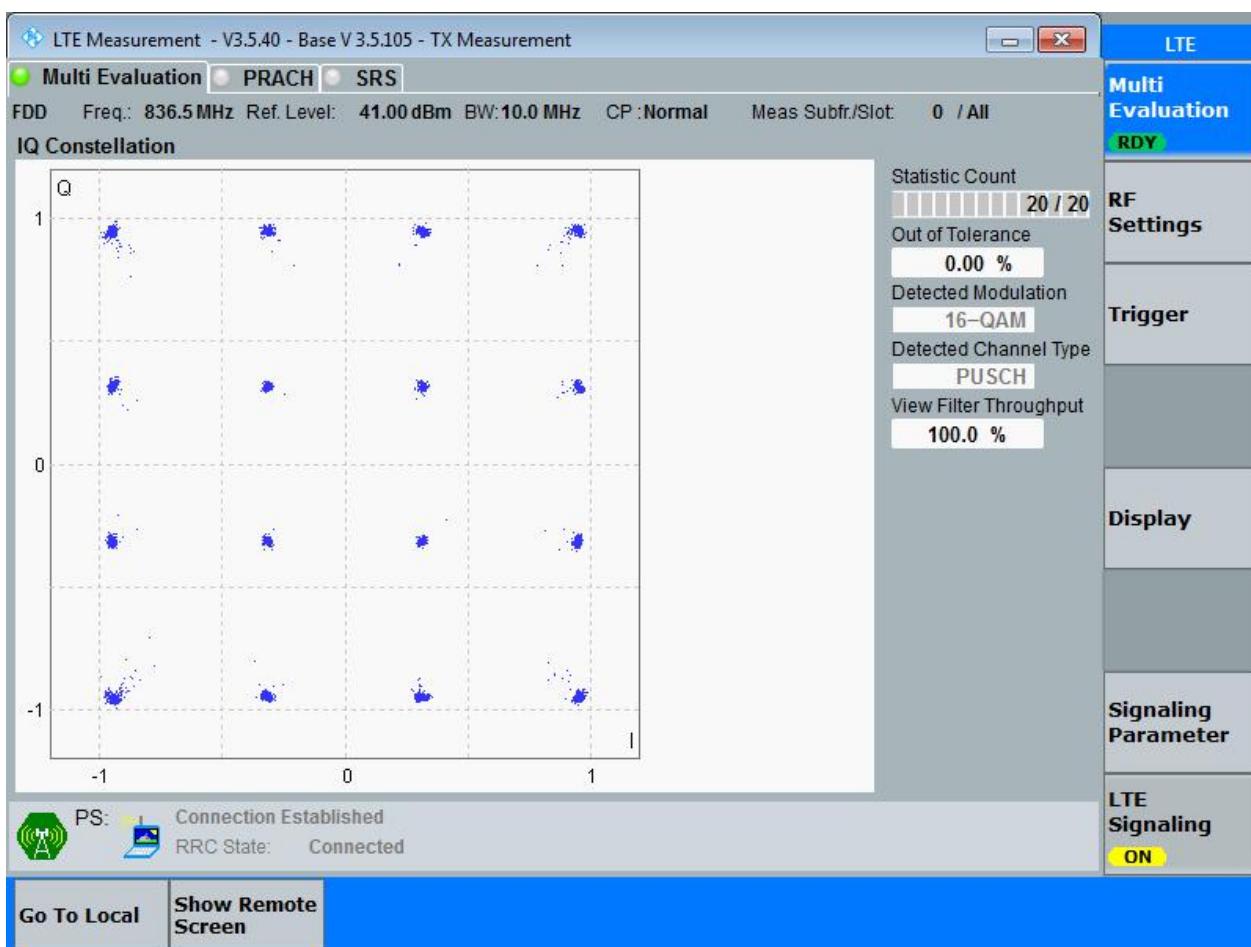
3.1.1.2.3.1.1 Test RB = RB25#0



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	1.30	Pass
			MCH	RB6#0	1.09	1.30	Pass
			HCH	RB6#0	1.09	1.30	Pass
		3	LCH	RB15#0	2.70	3.00	Pass
			MCH	RB15#0	2.71	3.00	Pass
			HCH	RB15#0	2.70	2.98	Pass
		5	LCH	RB25#0	4.52	5.02	Pass
			MCH	RB25#0	4.50	4.99	Pass
			HCH	RB25#0	4.50	5.02	Pass
		10	LCH	RB50#0	8.97	9.90	Pass
			MCH	RB50#0	8.96	9.89	Pass
			HCH	RB50#0	8.97	9.87	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.31	Pass
			MCH	RB6#0	1.09	1.29	Pass
			HCH	RB6#0	1.09	1.30	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.70	3.00	Pass
			HCH	RB15#0	2.70	2.99	Pass
		5	LCH	RB25#0	4.51	5.04	Pass
			MCH	RB25#0	4.49	4.99	Pass
			HCH	RB25#0	4.50	5.01	Pass
		10	LCH	RB50#0	8.97	9.96	Pass
			MCH	RB50#0	8.98	9.86	Pass
			HCH	RB50#0	8.96	9.94	Pass

Part II - Test Plots

4.1 For LTE

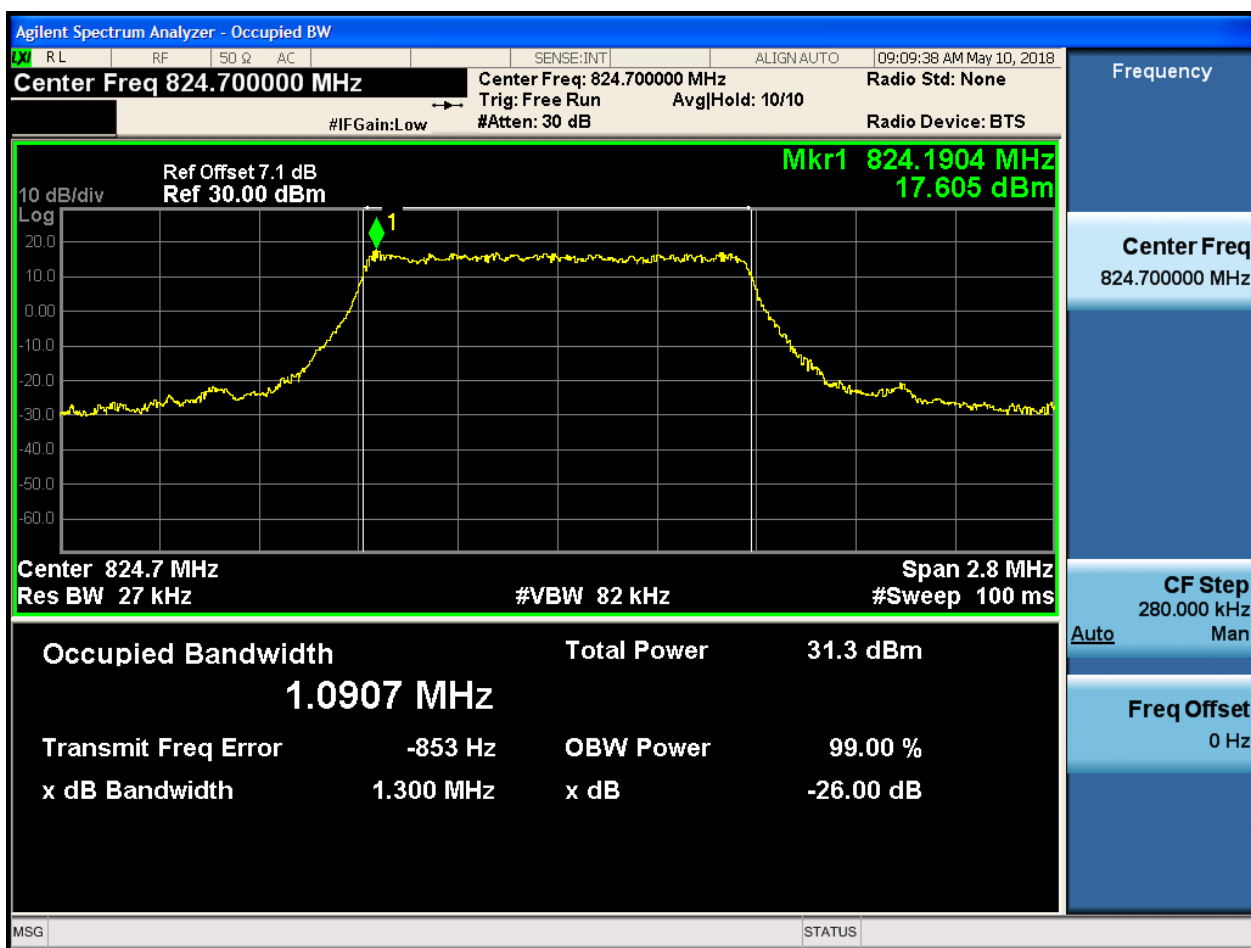
4.1.1 Test Band = BAND5

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

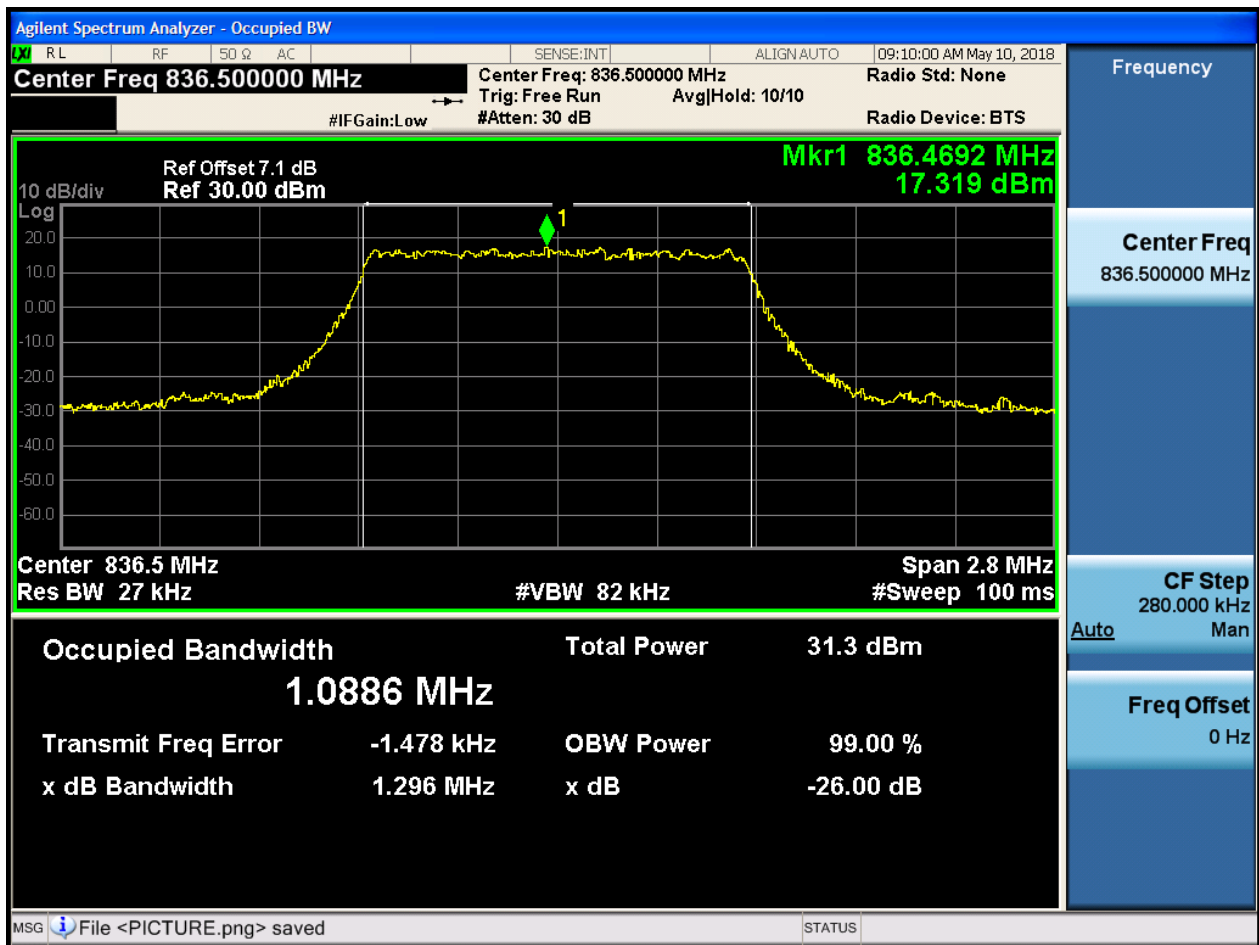
4.1.1.1.1.1.1 Test RB = RB6#0





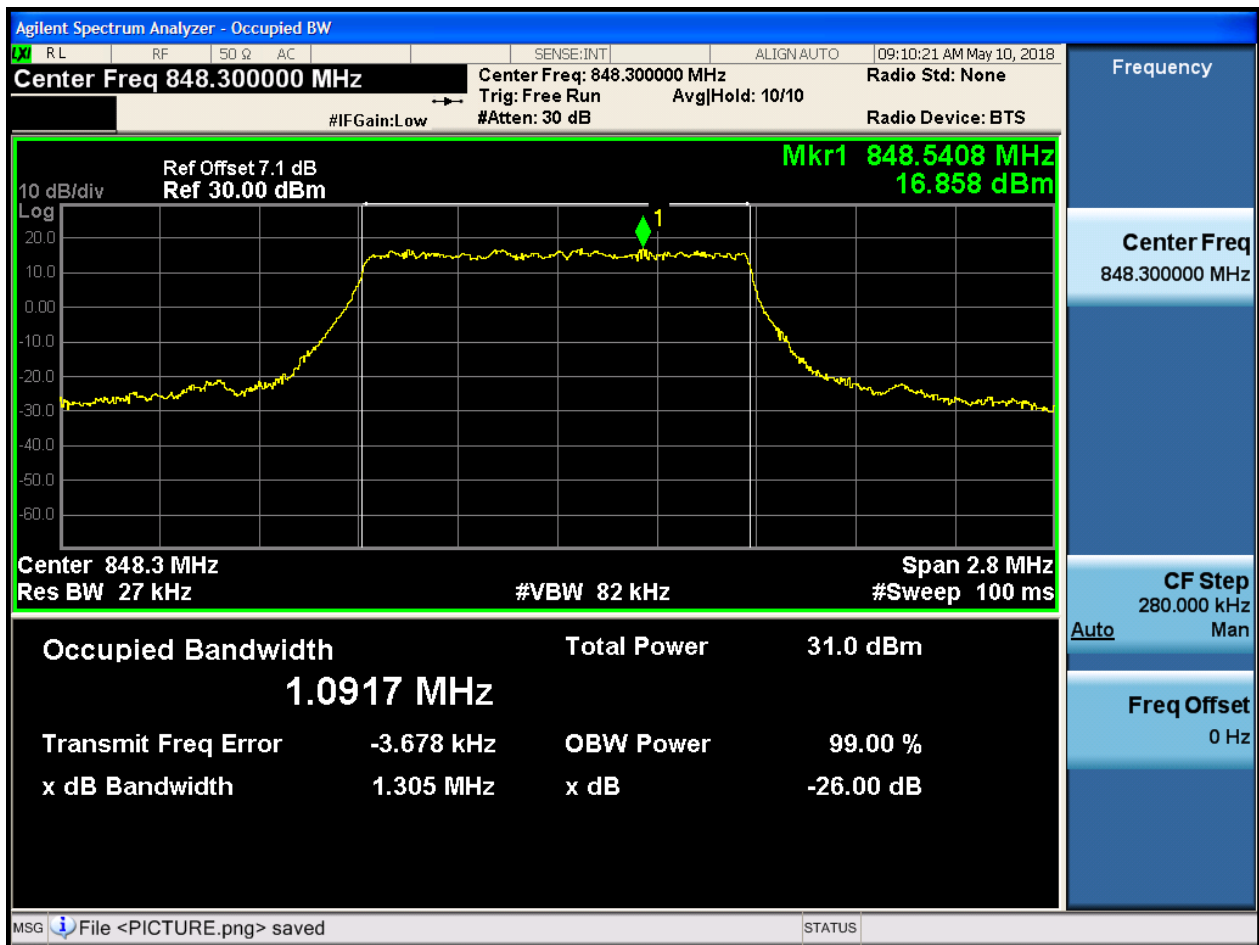
4.1.1.1.1.2 Test Channel = MCH

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

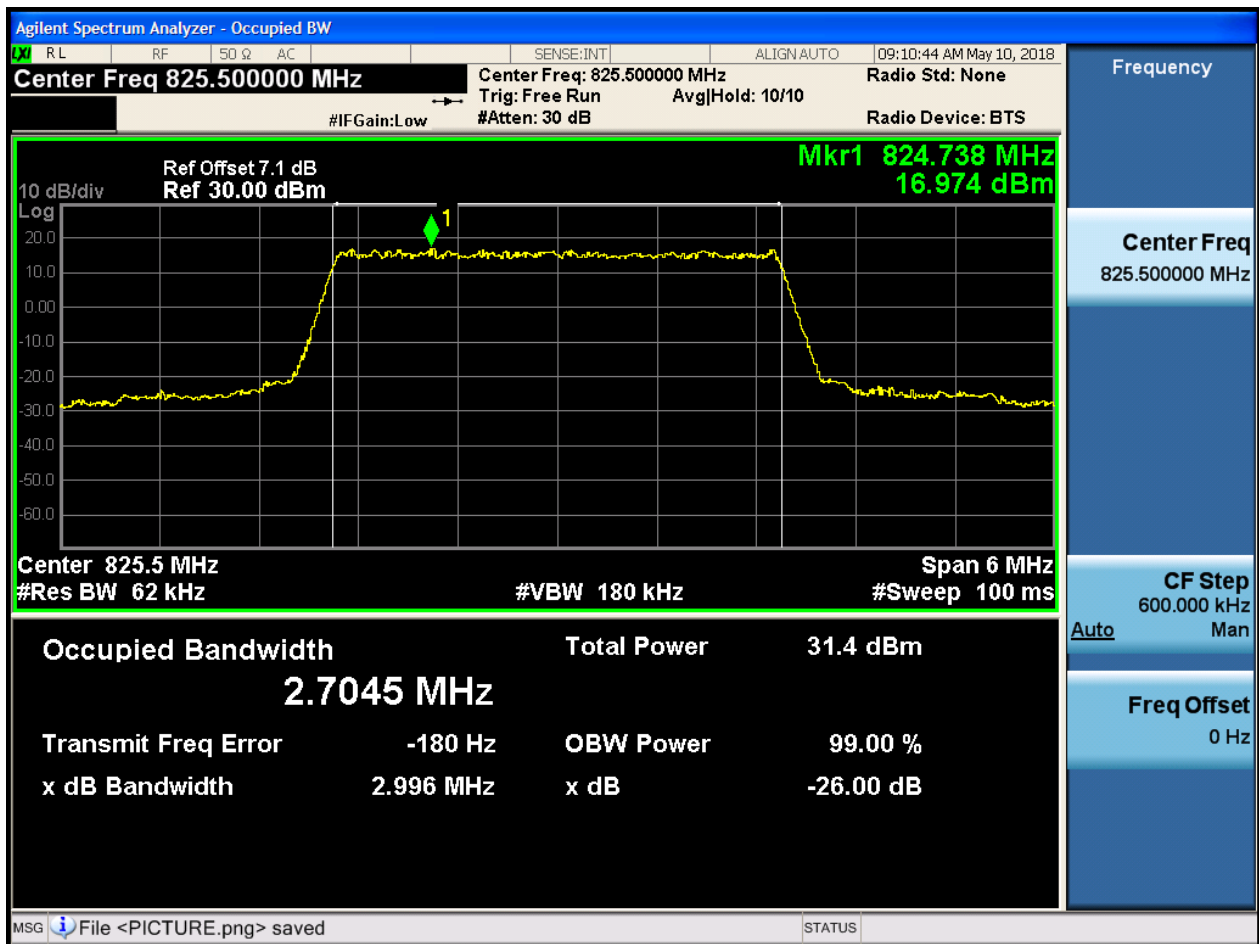




4.1.1.1.2 Test Bandwidth = 3

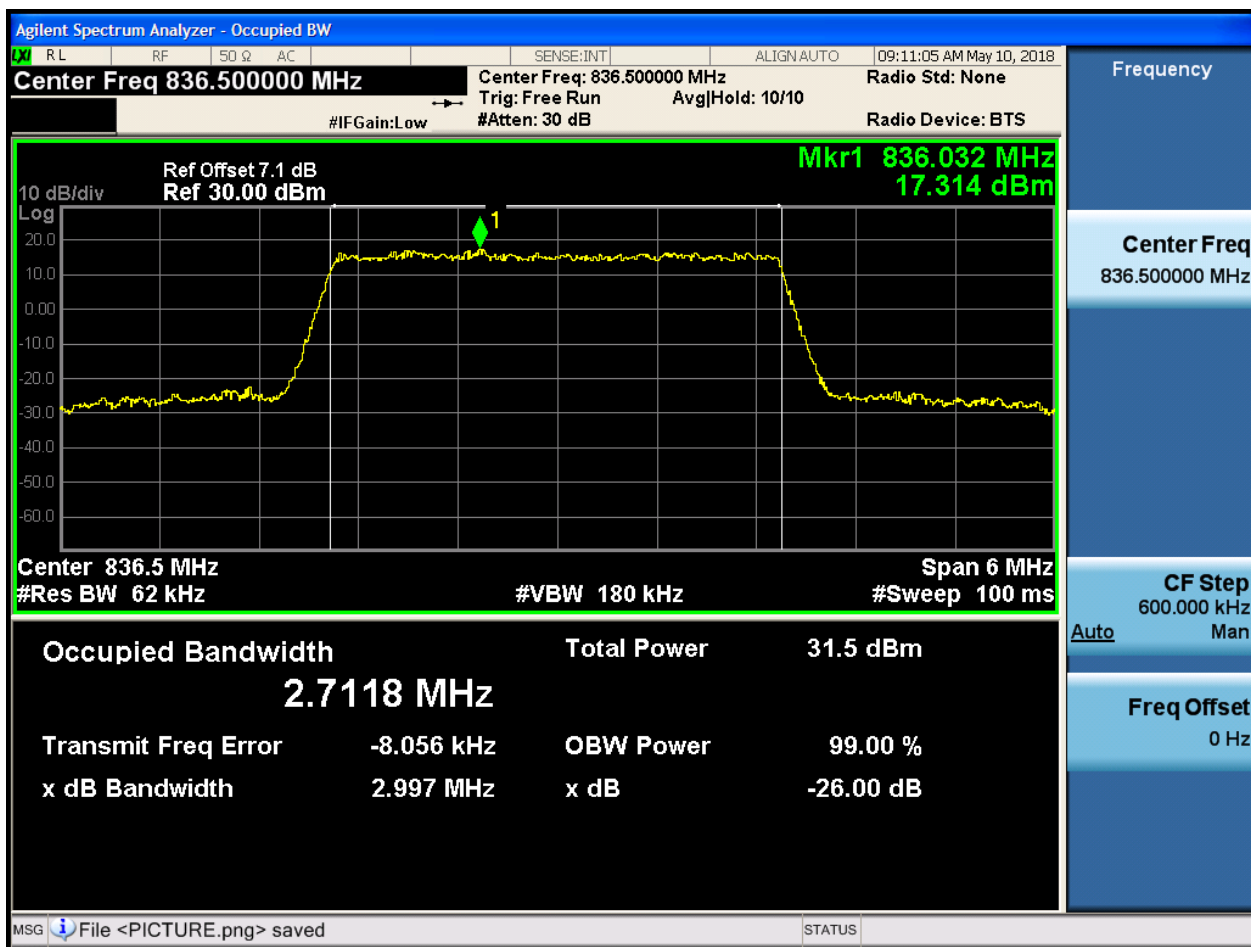
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB15#0



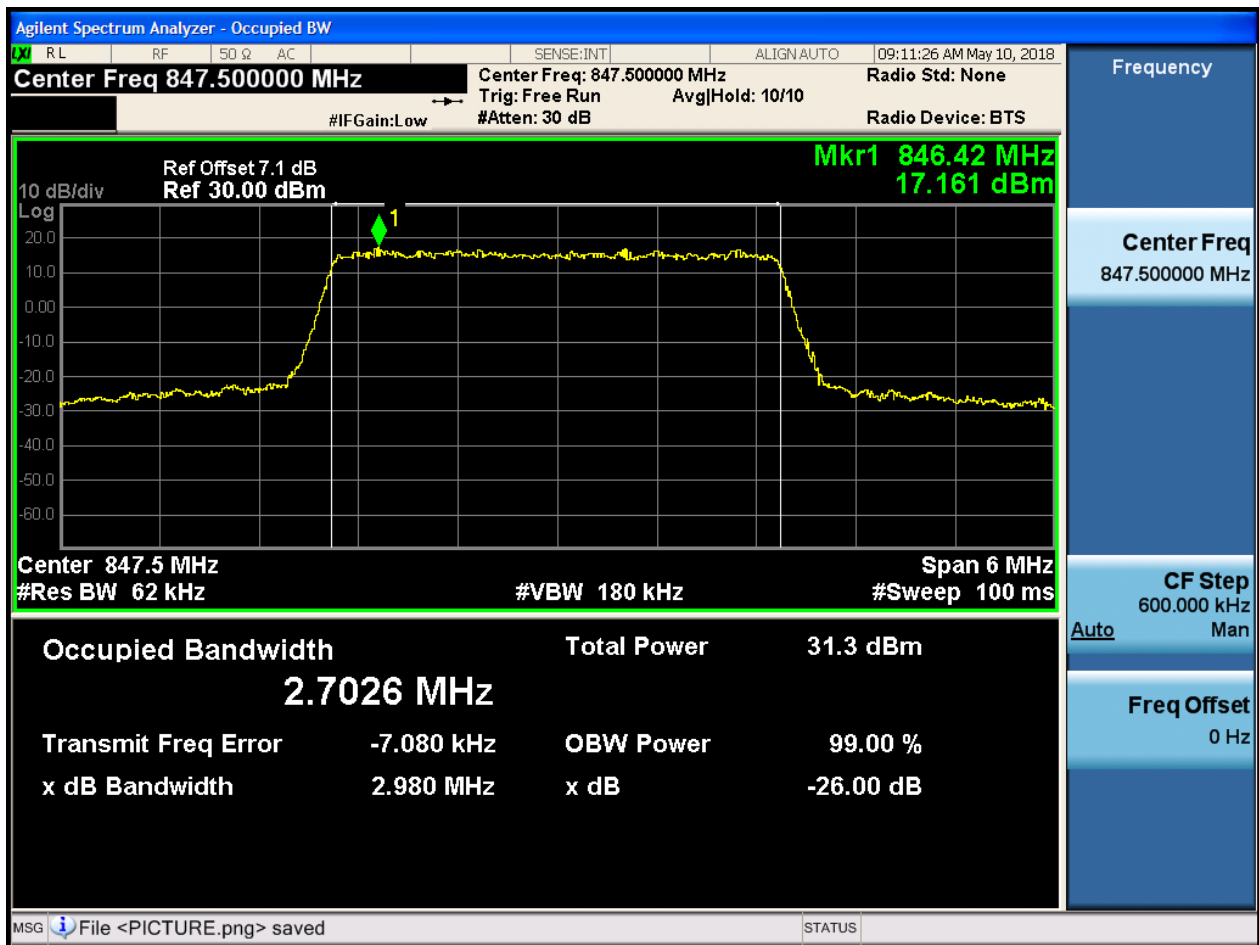
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB15#0



4.1.1.1.2.3 Test Channel = HCH

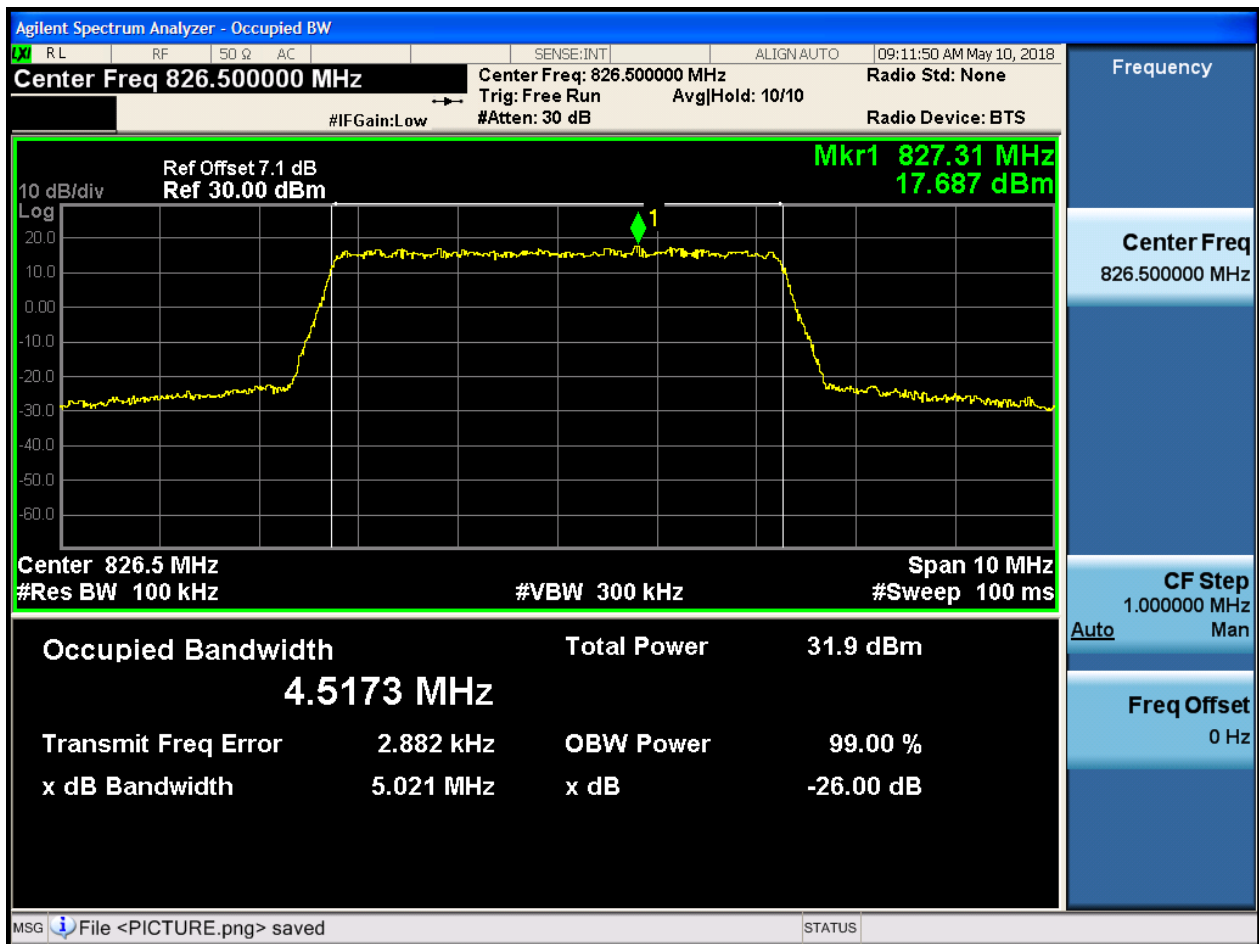
4.1.1.1.2.3.1 Test RB = RB15#0



4.1.1.1.3 Test Bandwidth = 5

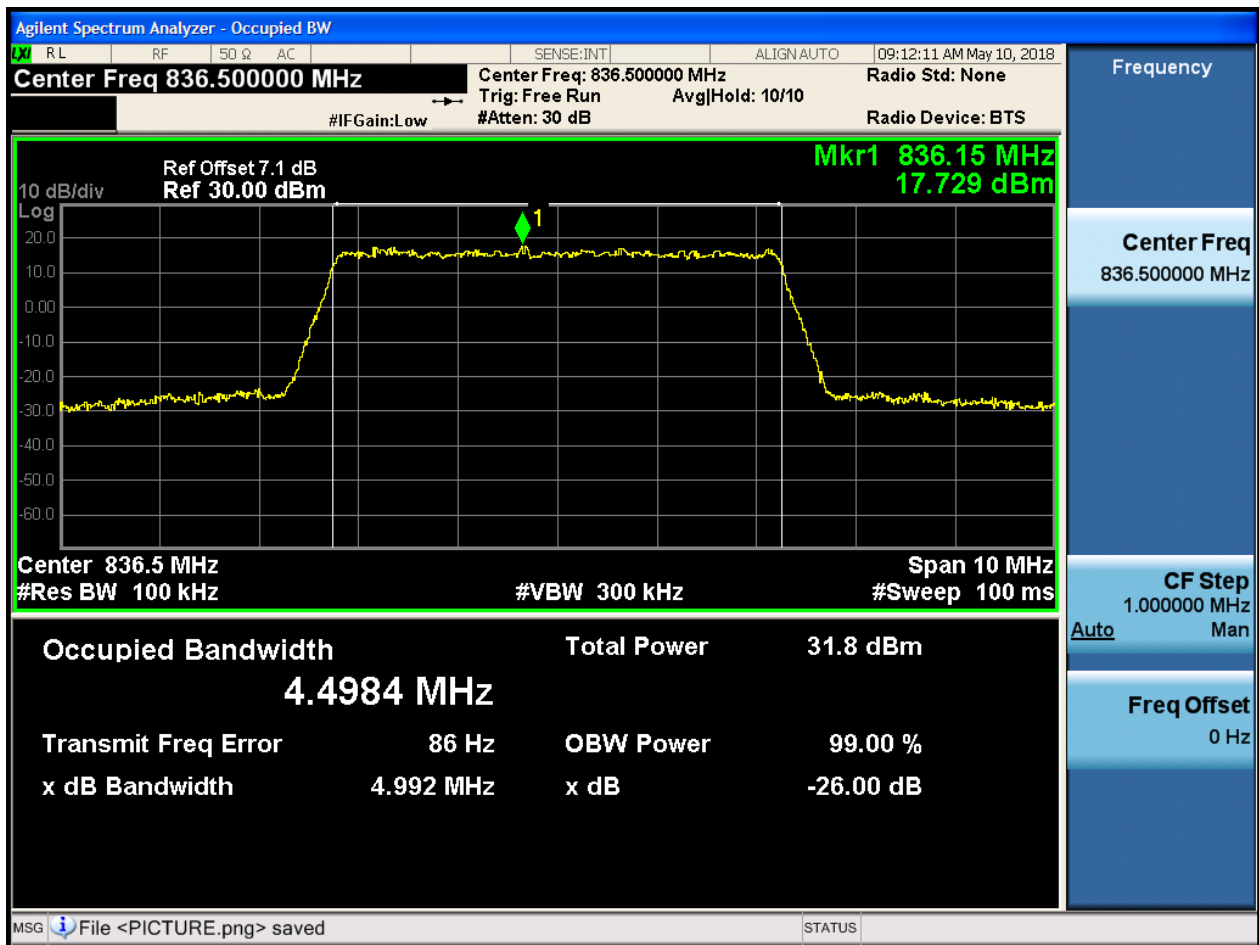
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



4.1.1.1.3.2 Test Channel = MCH

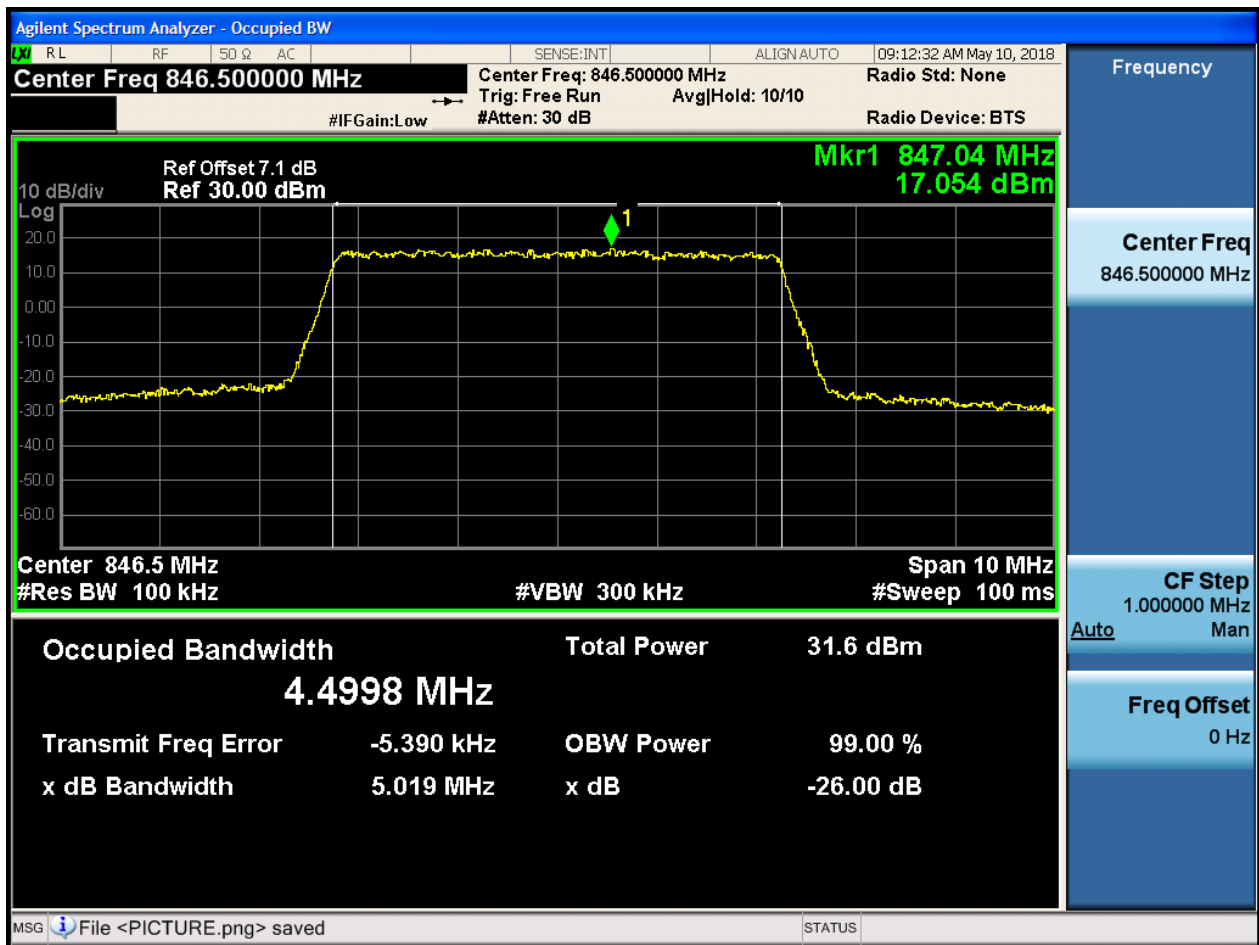
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

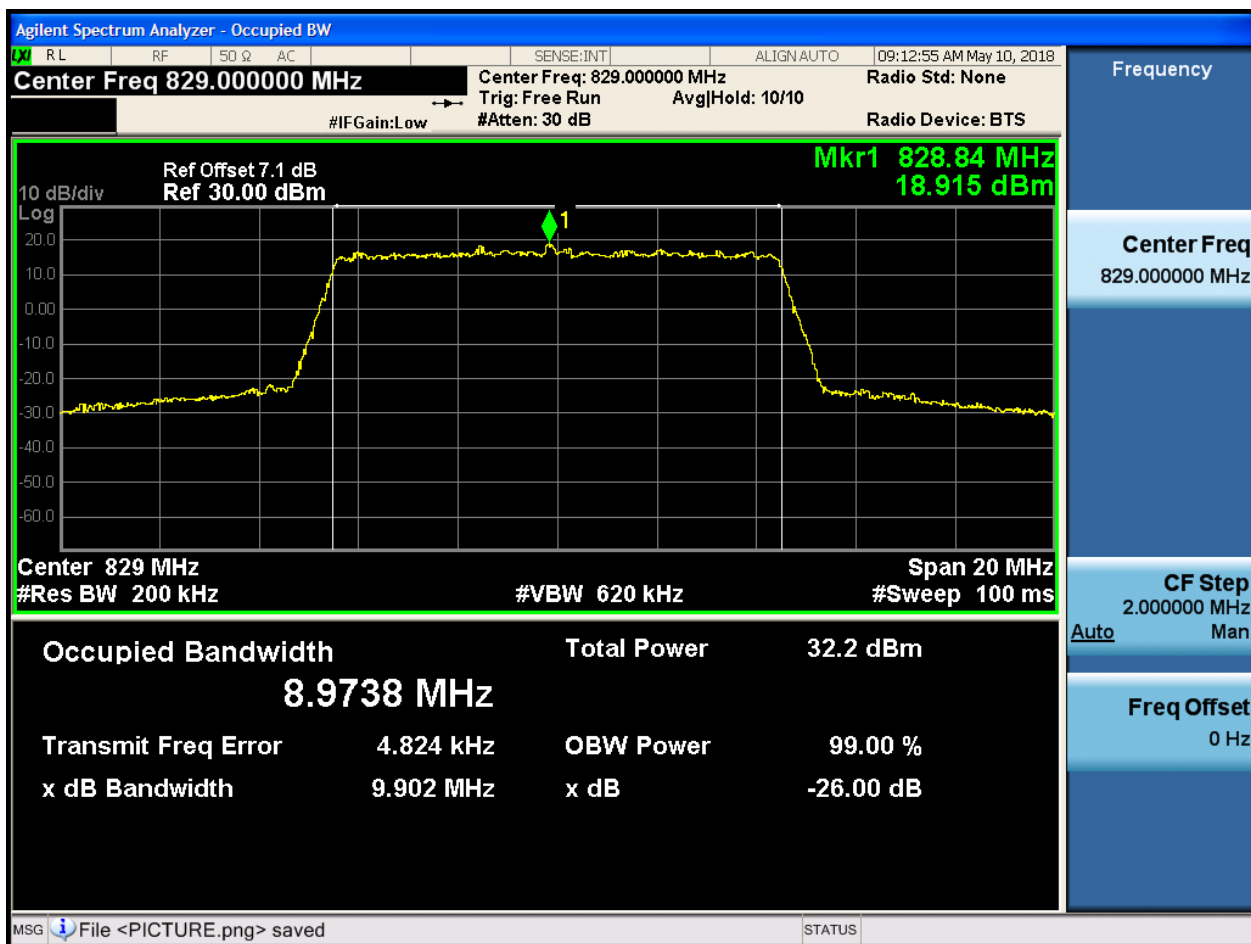
4.1.1.1.3.3.1 Test RB = RB25#0



4.1.1.1.4 Test Bandwidth = 10

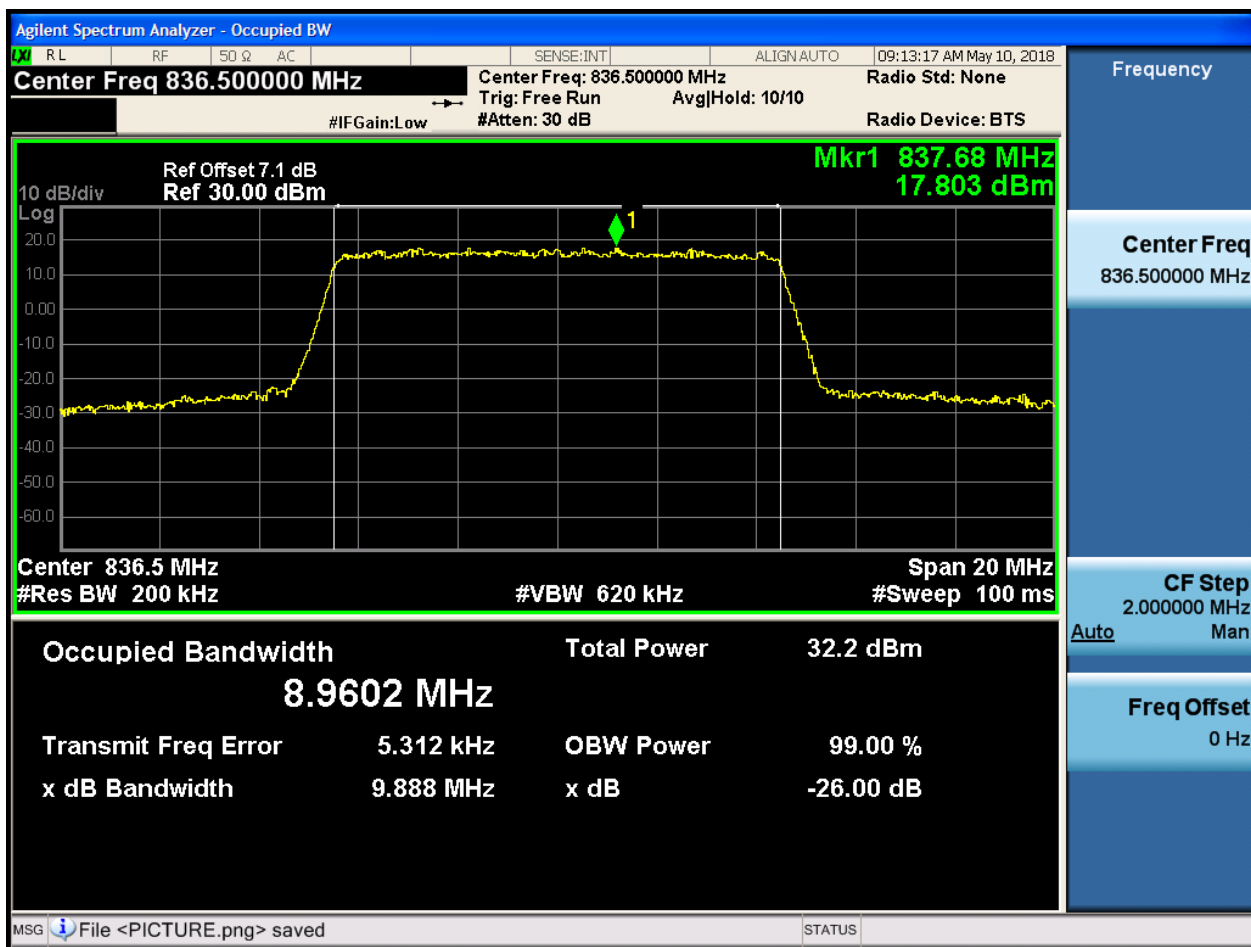
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB50#0



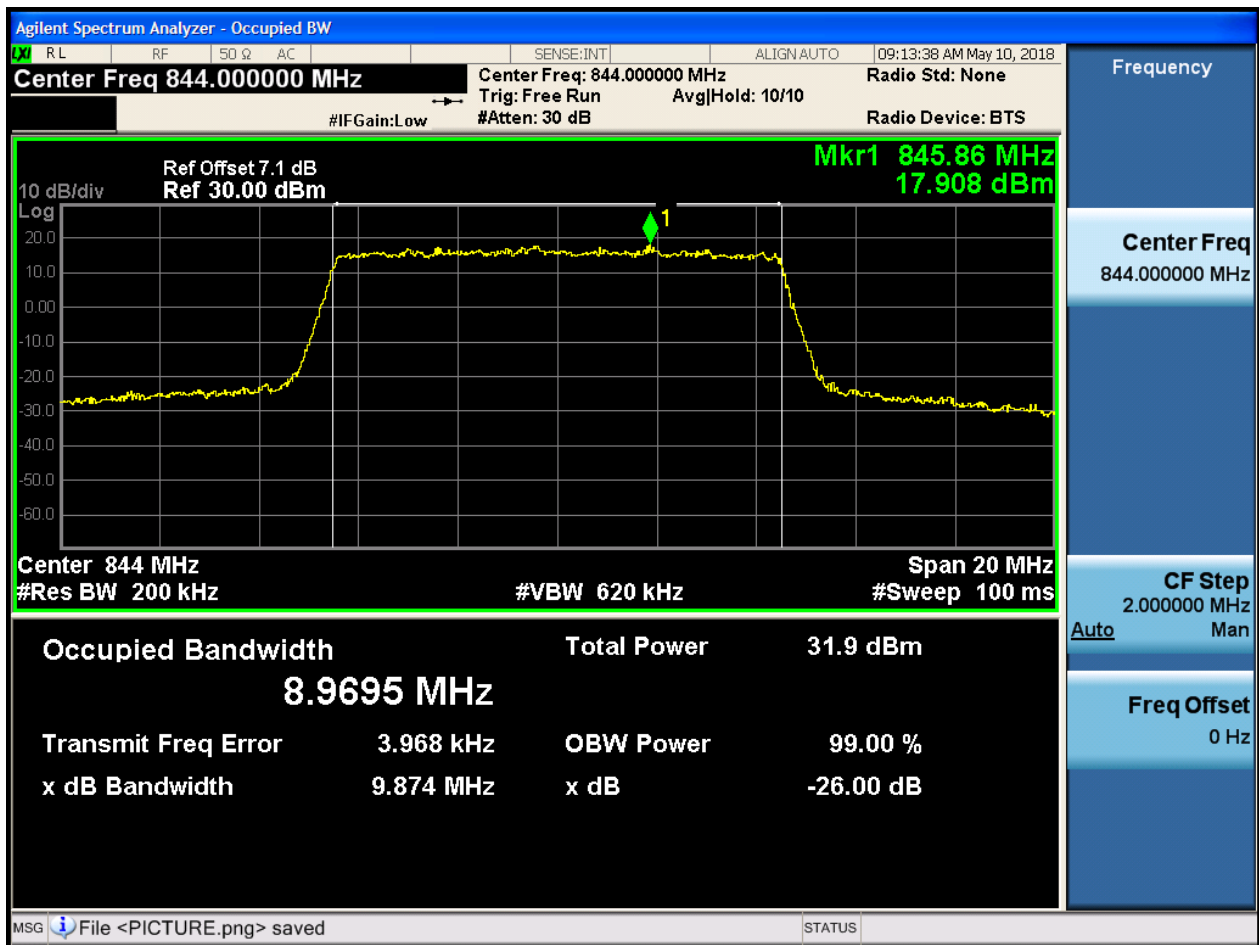
4.1.1.1.4.2 Test Channel = MCH

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

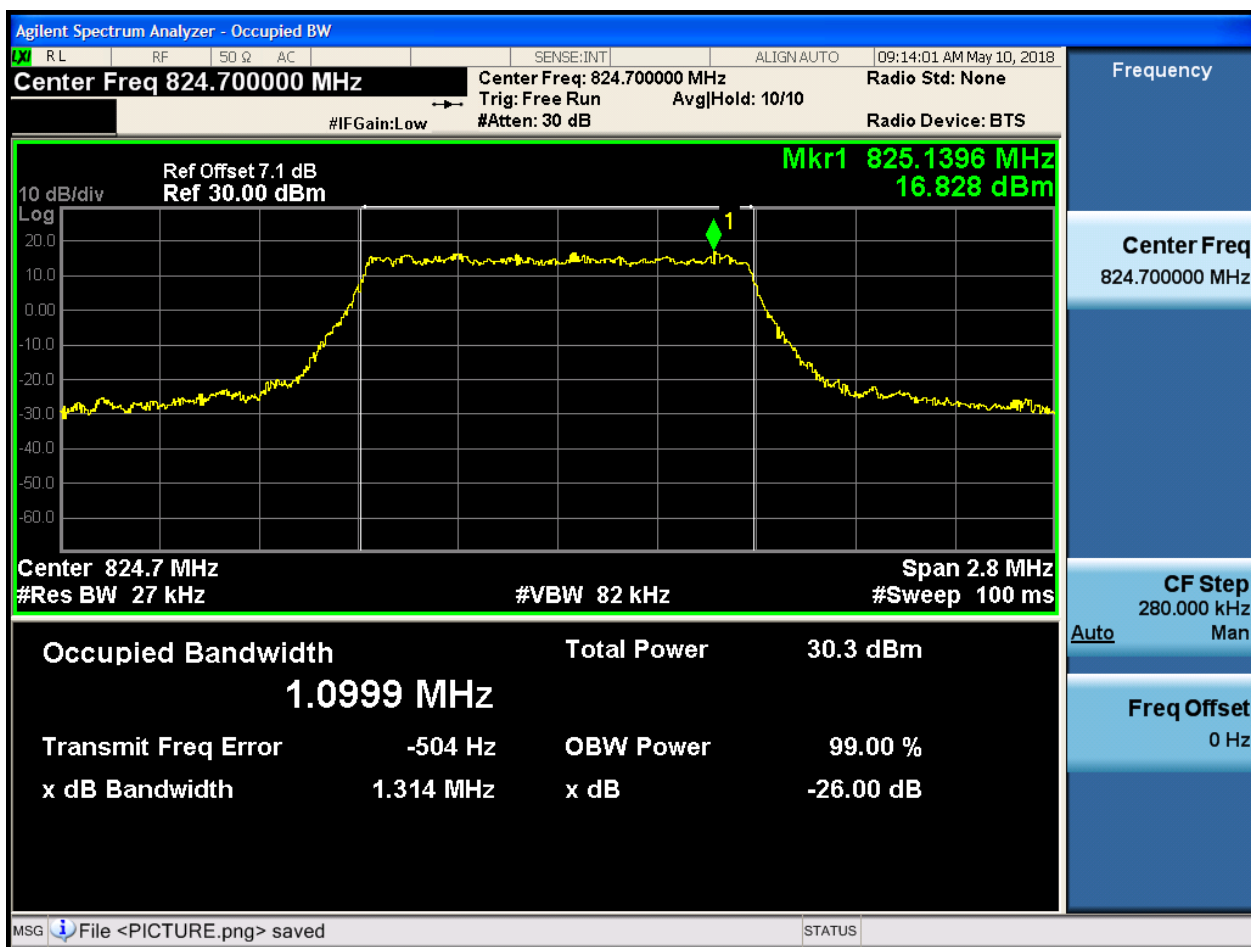


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

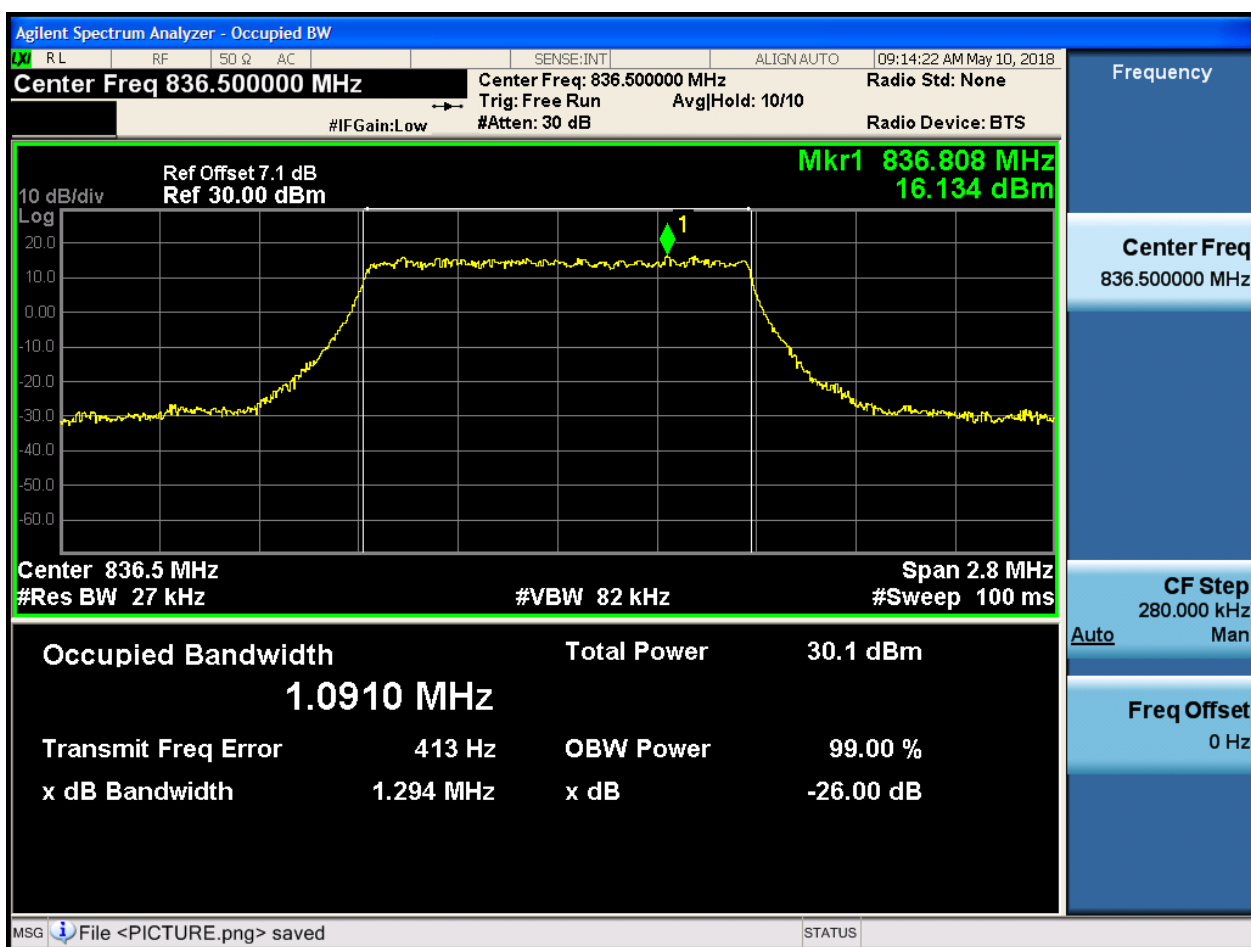
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB6#0



4.1.1.2.1.2 Test Channel = MCH

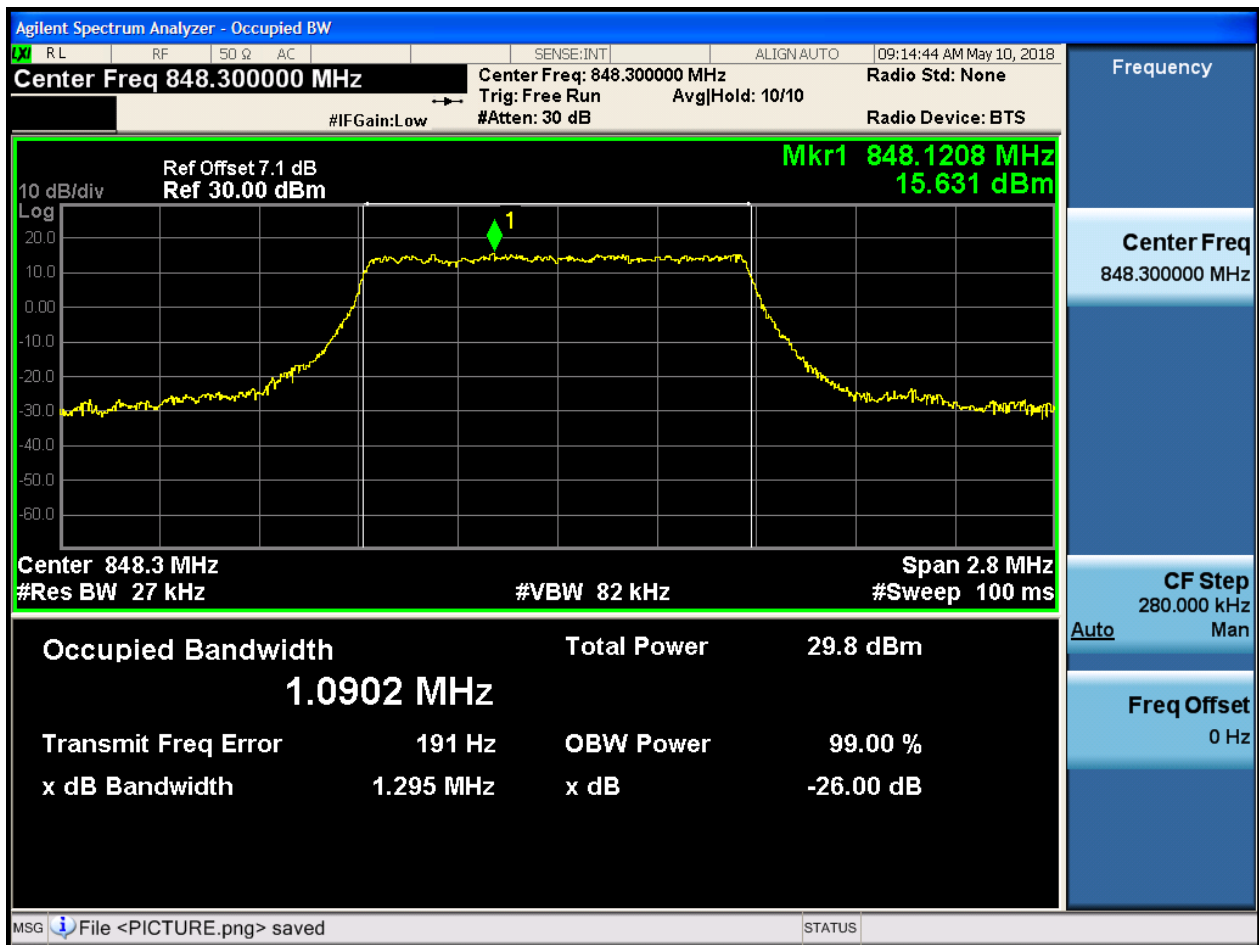
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

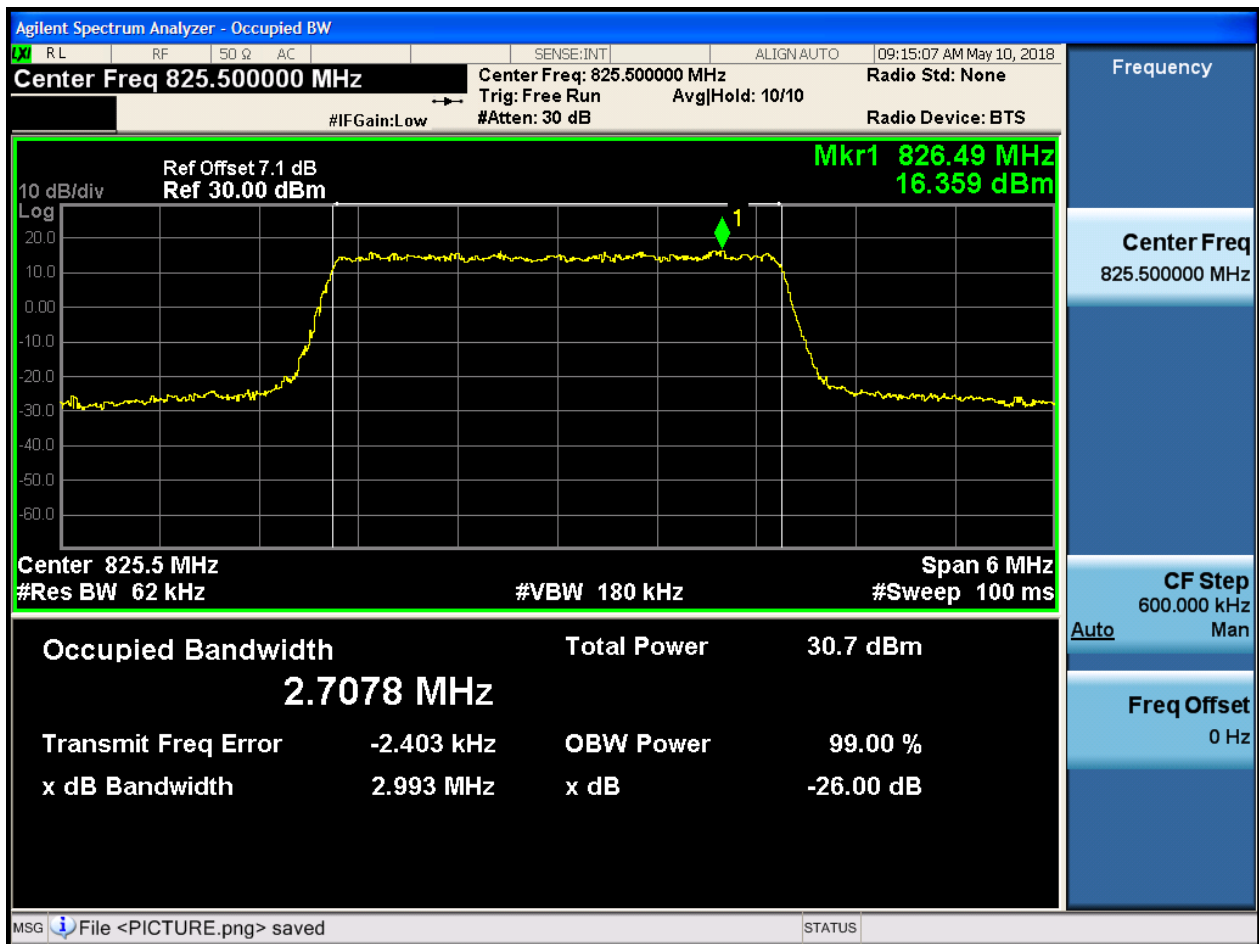
4.1.1.2.1.3.1 Test RB = RB6#0



4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

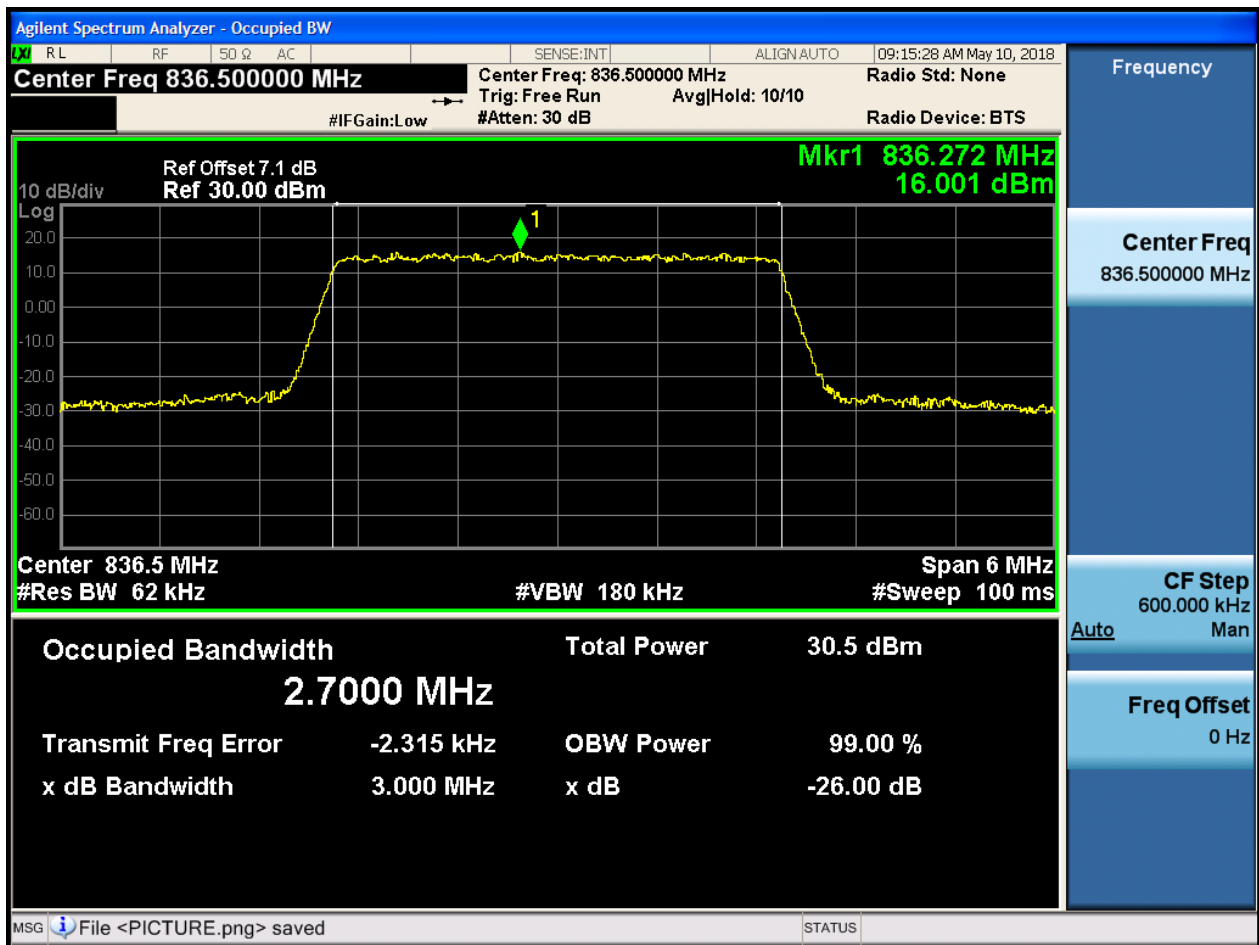
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

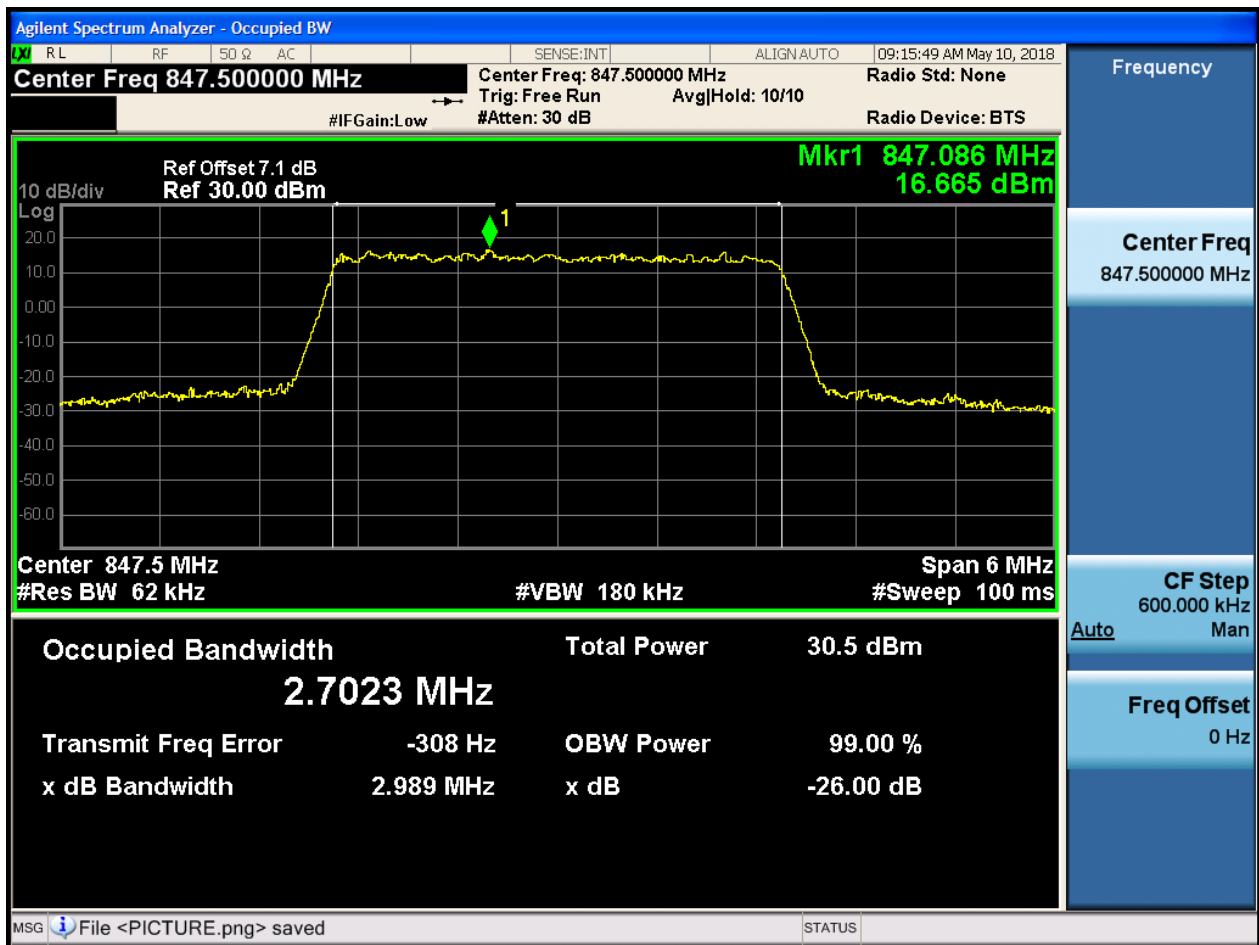
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

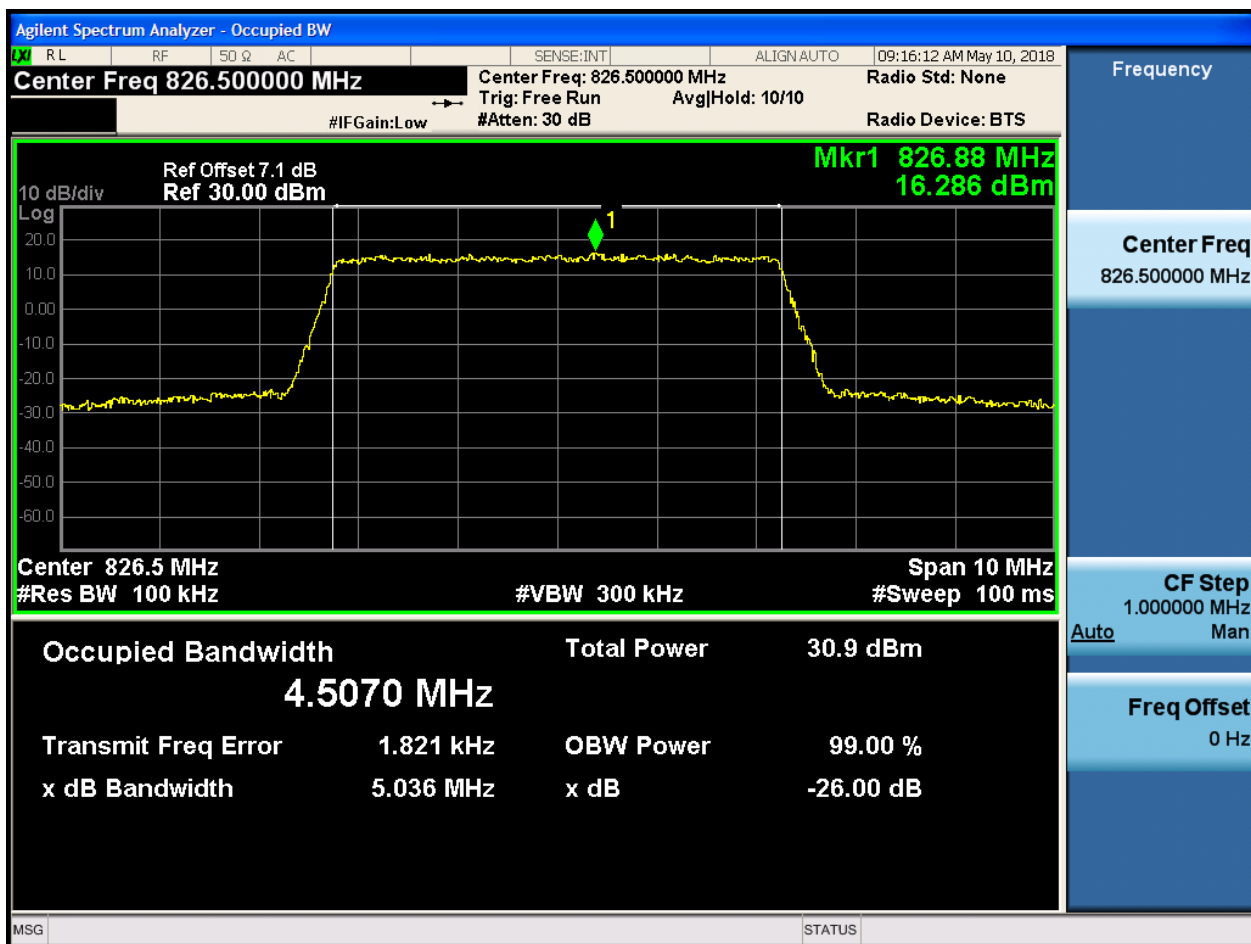




4.1.1.2.3 Test Bandwidth = 5

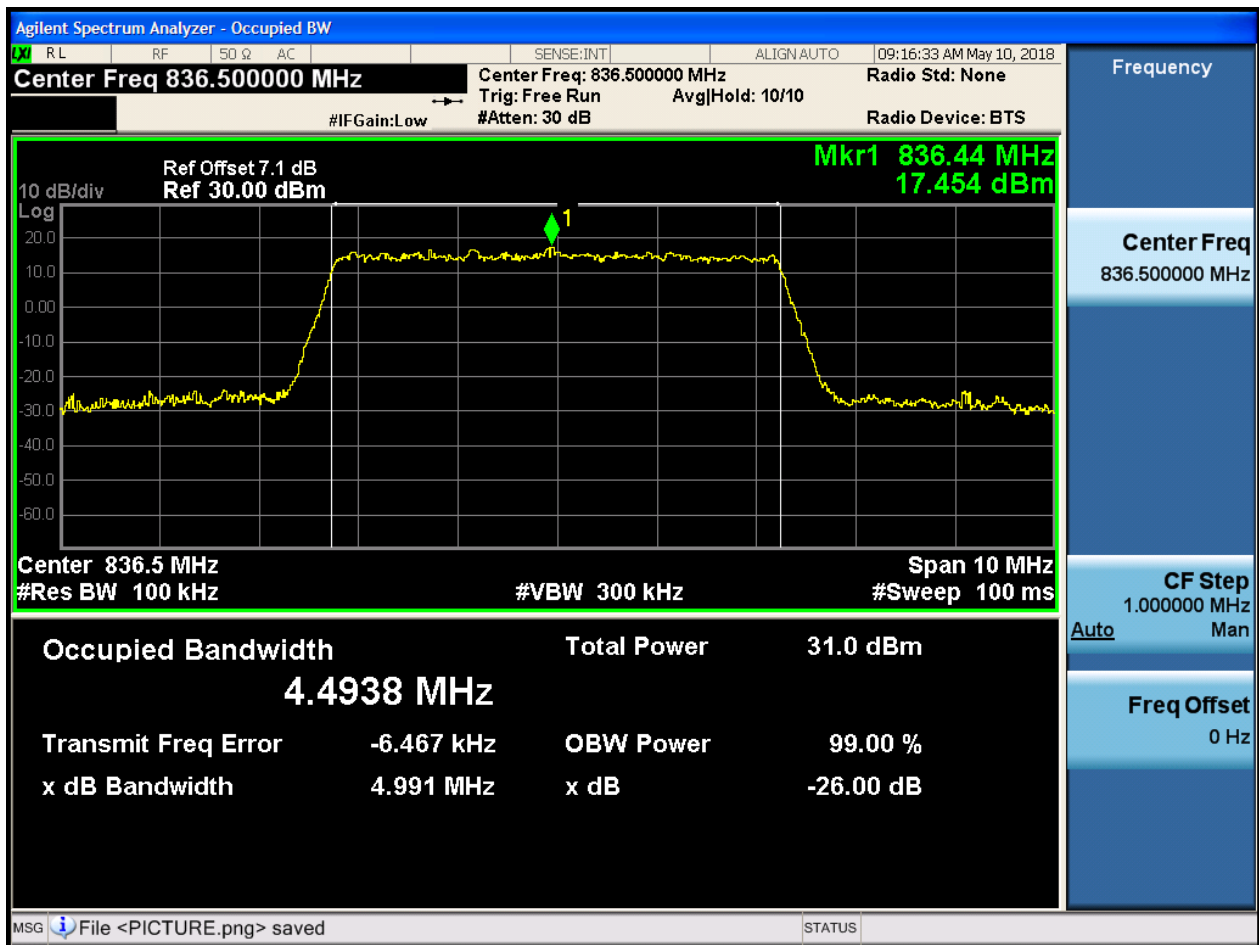
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



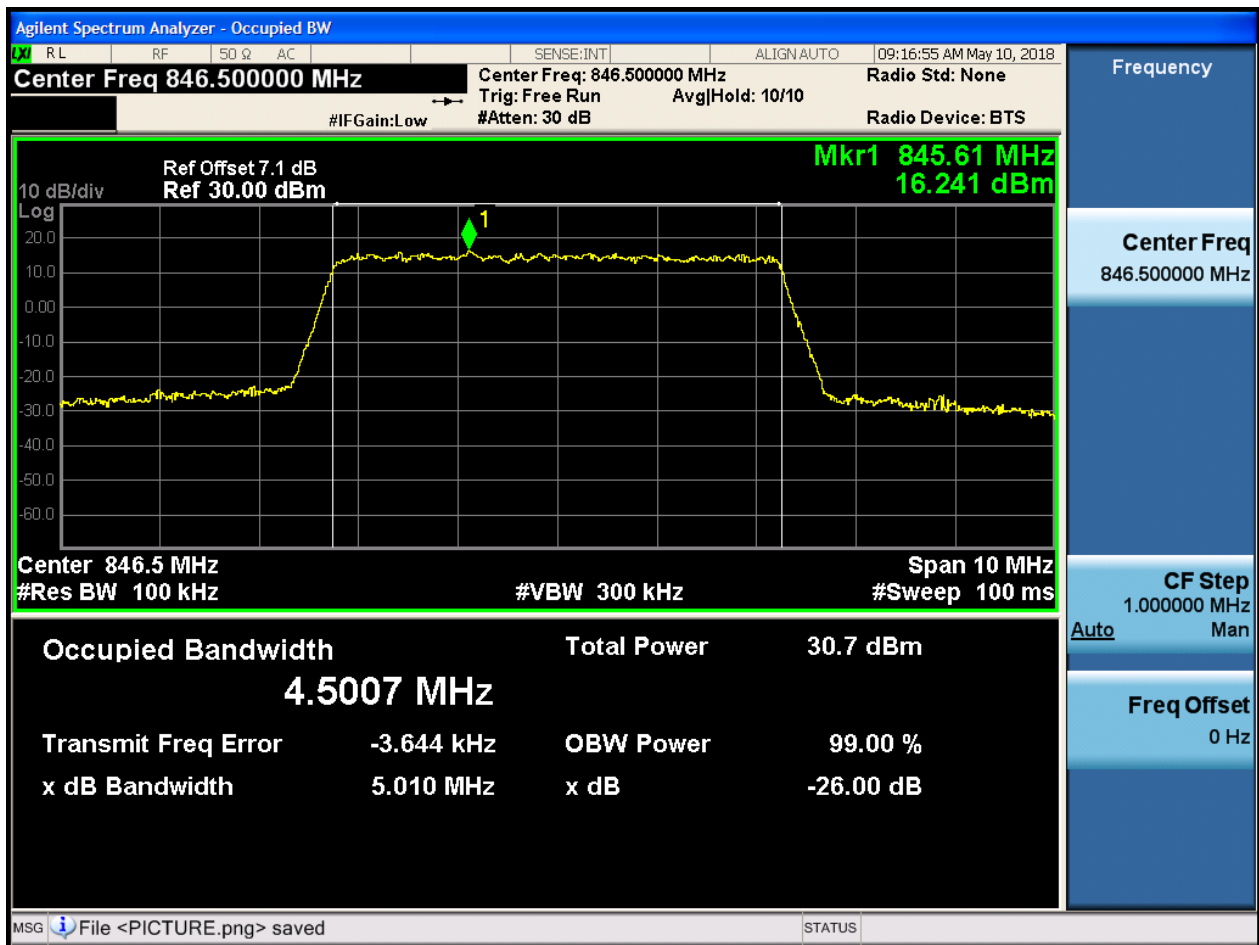
4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB25#0



4.1.1.2.3.3 Test Channel = HCH

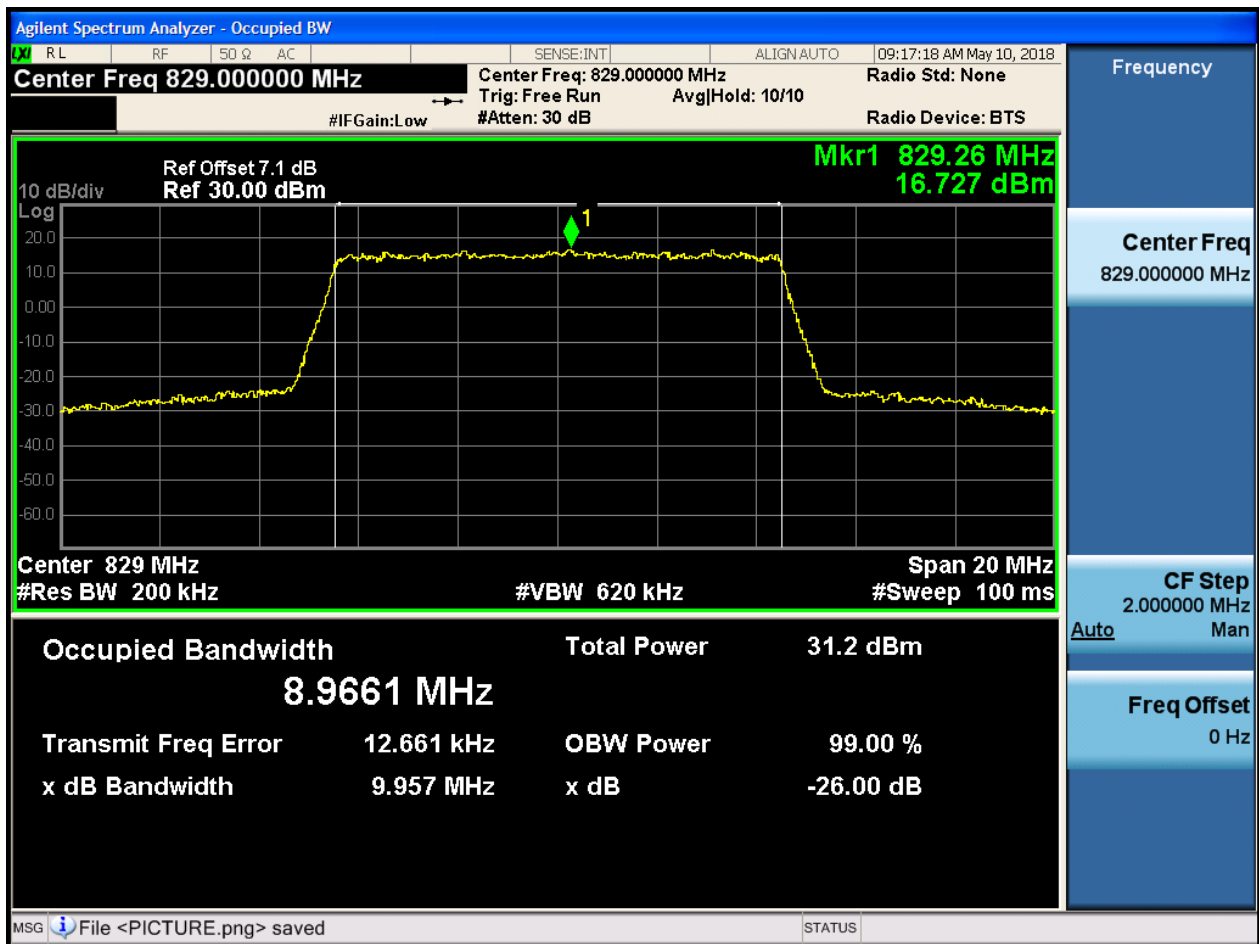
4.1.1.2.3.3.1 Test RB = RB25#0



4.1.1.2.4 Test Bandwidth = 10

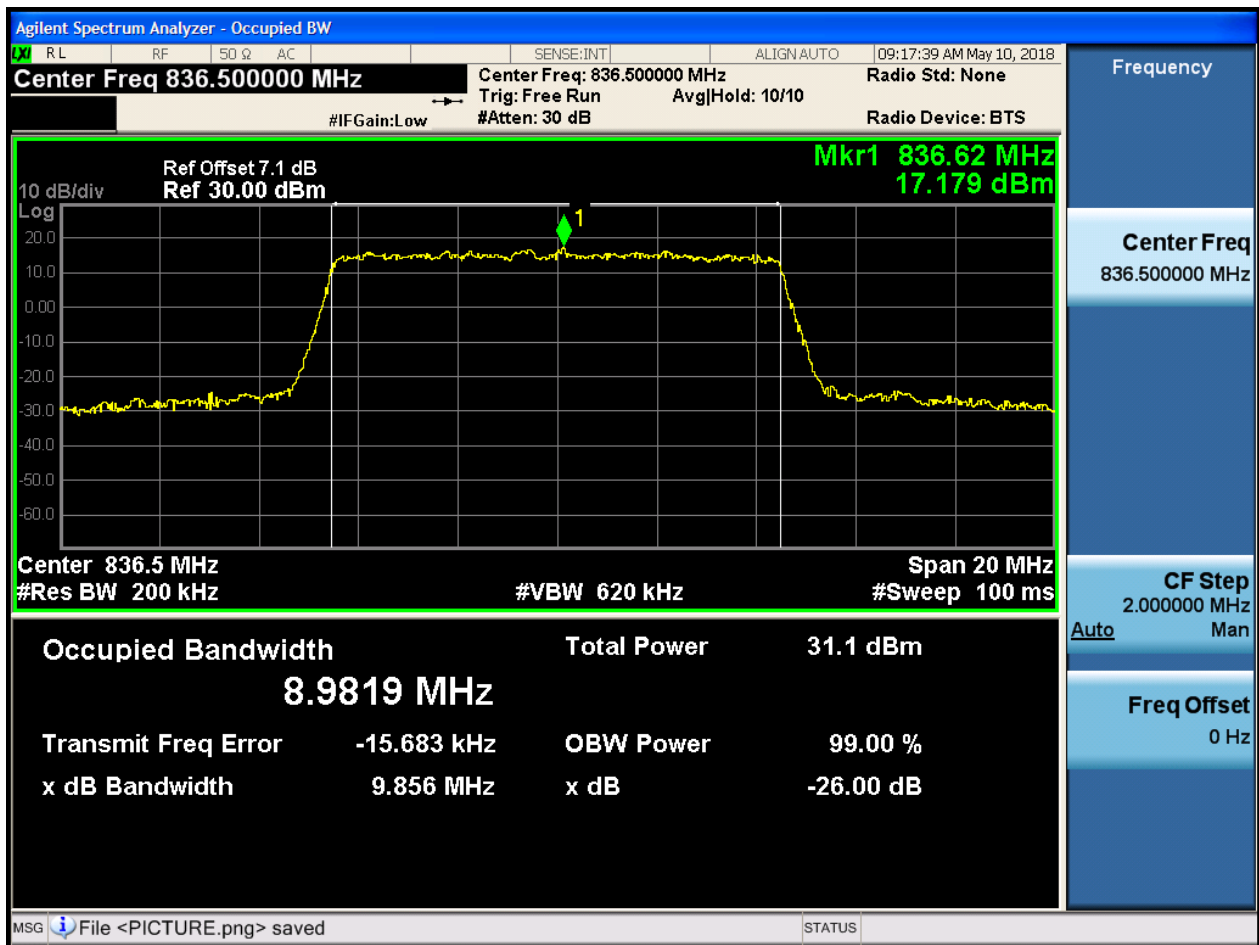
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0



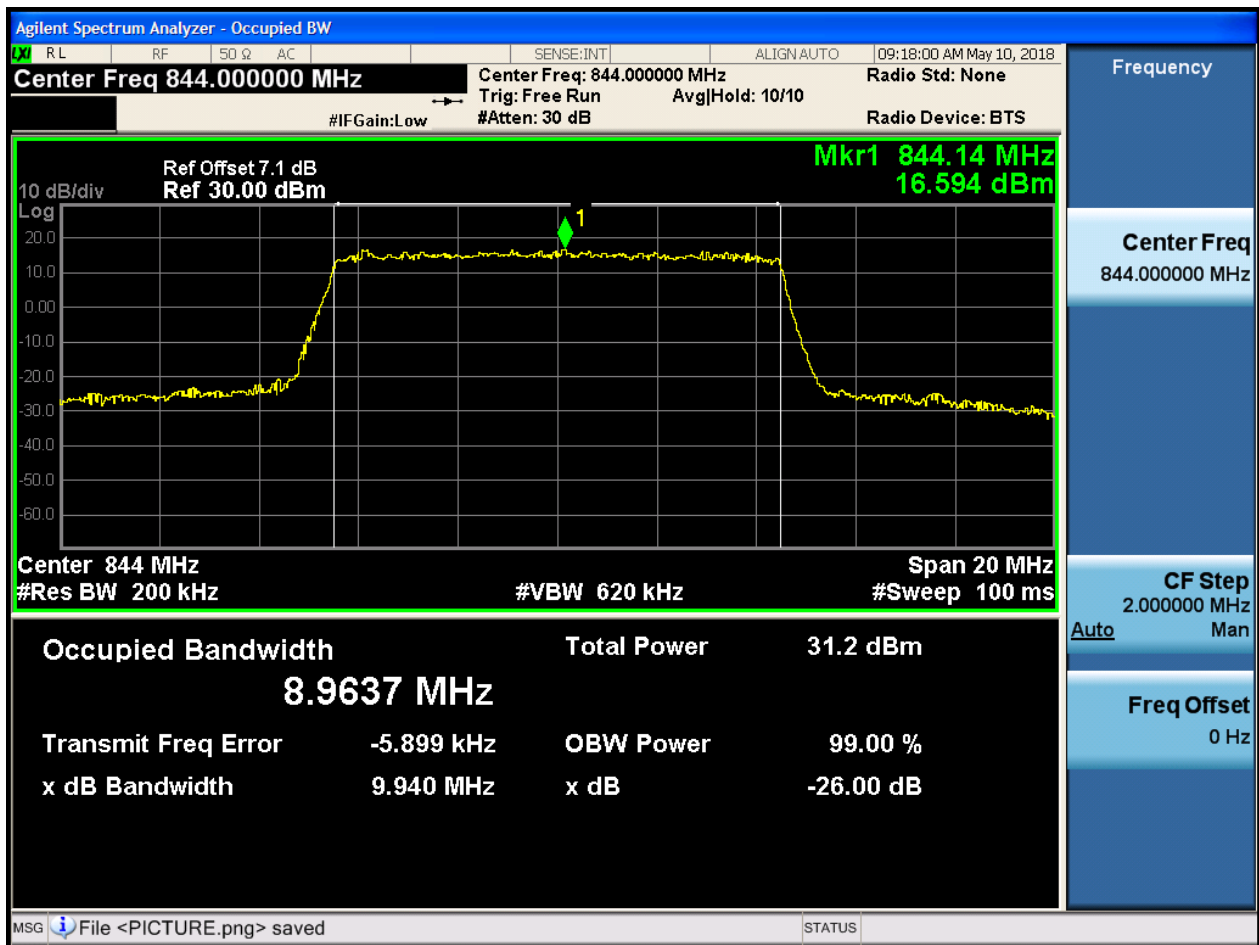
4.1.1.2.4.2 Test Channel = MCH

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

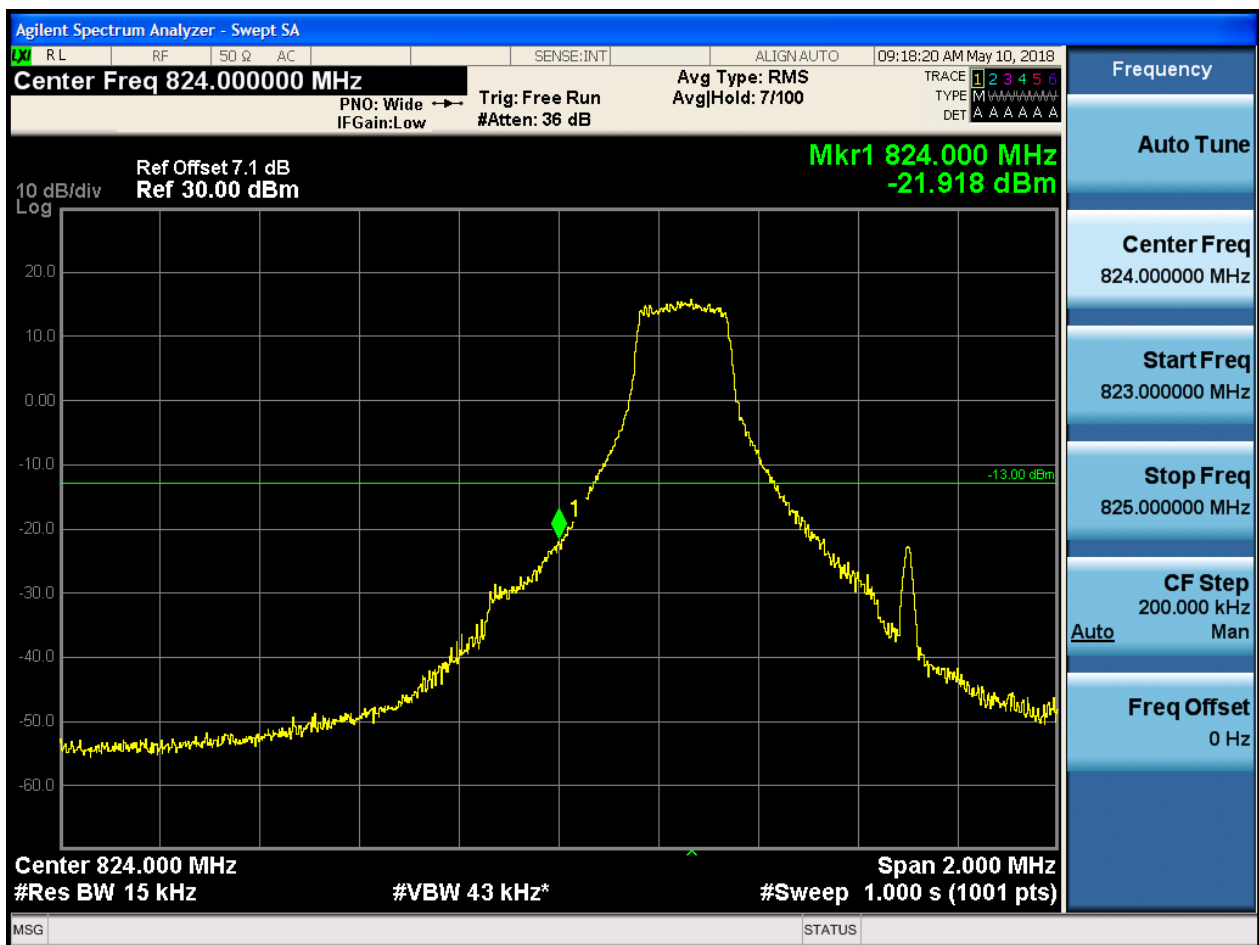
5.1.1 Test Band = BAND5

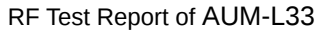
5.1.1.1 Test Mode = LTE/TM1

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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:18:33 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100
#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 7.1 dB
Ref 30.00 dBm

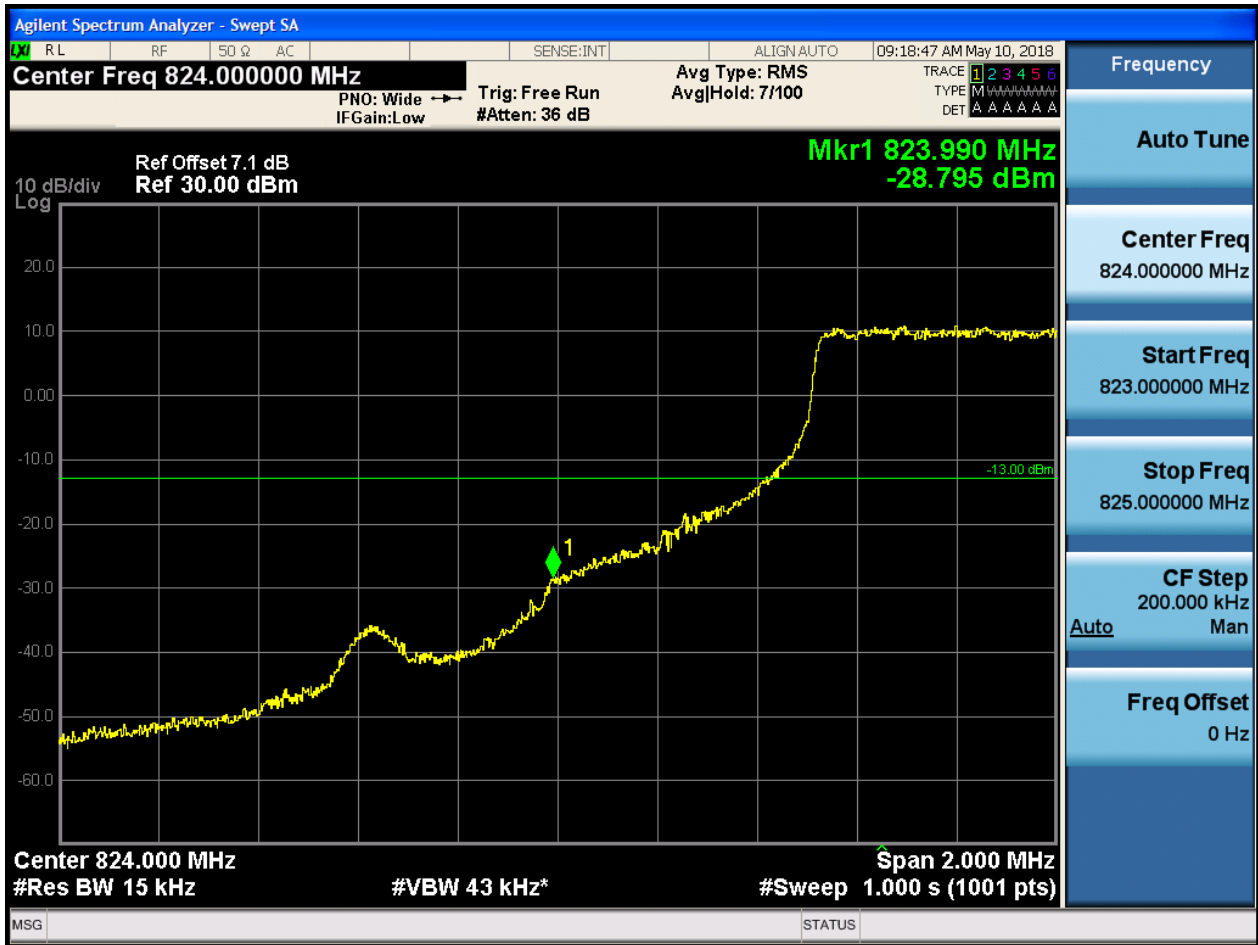
Mkr1 823.450 MHz
-52.201 dBm

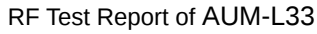
10 dB/div
Log

Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.1.1.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:19:01 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

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

10 dB/div Log

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-27.569 dBm

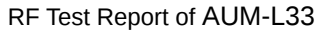
Center 824.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:19:34 AM May 10, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100
#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 7.1 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-21.077 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



5.1.1.1.1.2.3 Test RB = RB3#2





5.1.1.1.2.4 Test RB = RB6#0

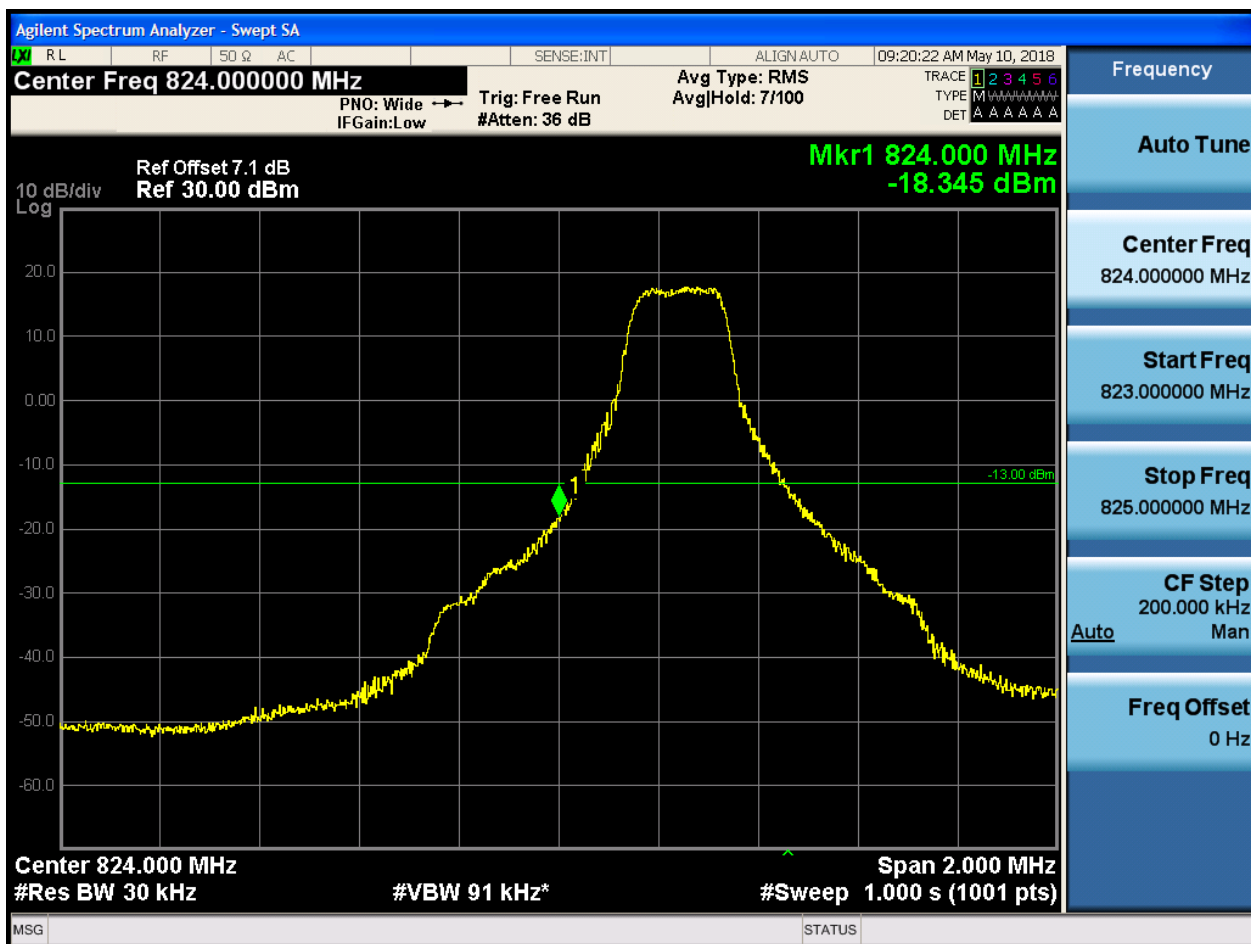


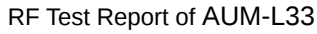


5.1.1.1.2 Test Bandwidth = 3

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:20:36 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100
#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 7.1 dB
Ref 30.00 dBm

Mkr1 823.010 MHz
-44.795 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

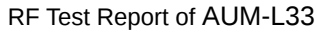
Center Freq
824.000000 MHz

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 09:20:50 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100
#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 7.1 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-32.175 dBm

10 dB/div
Log

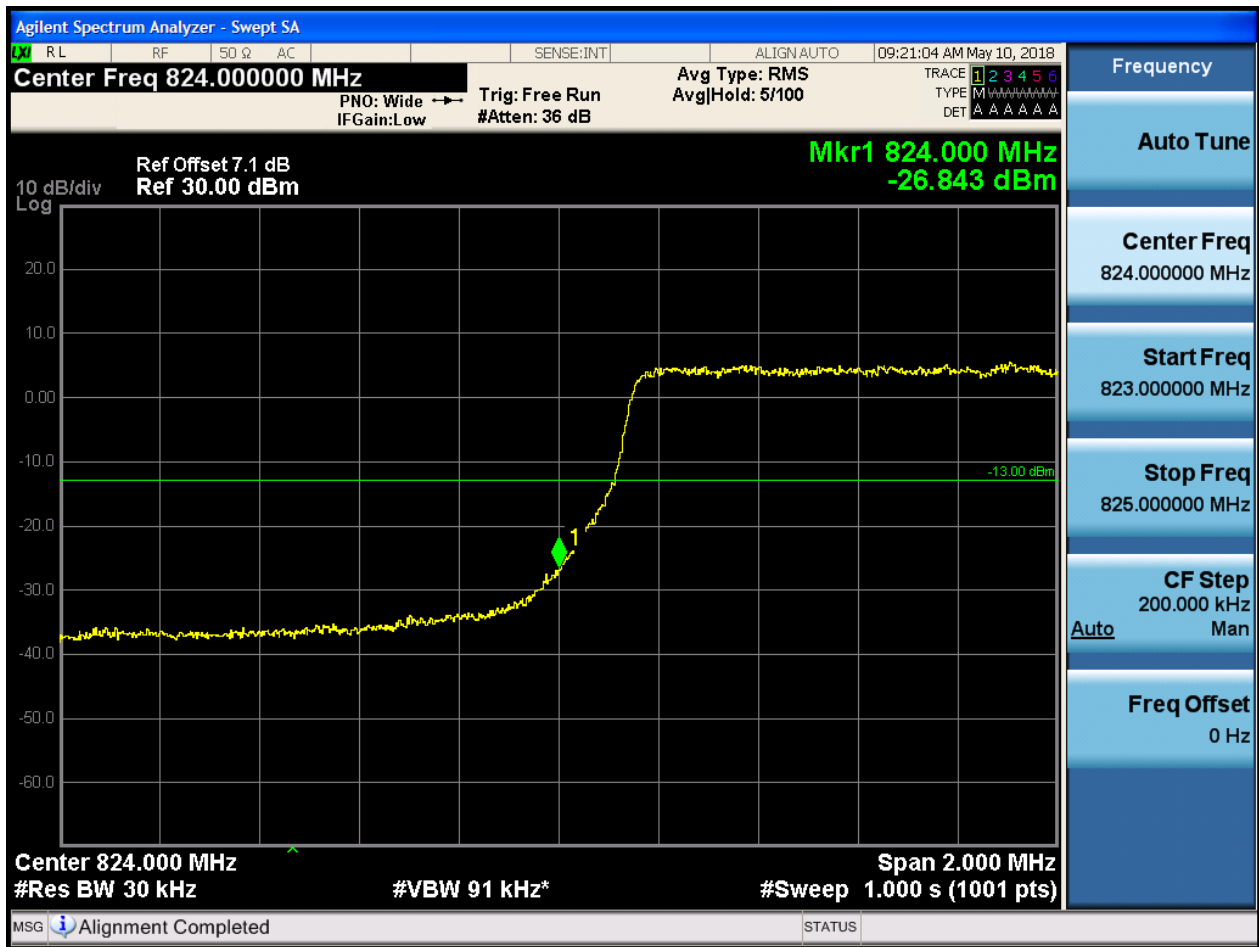
Center 824.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

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

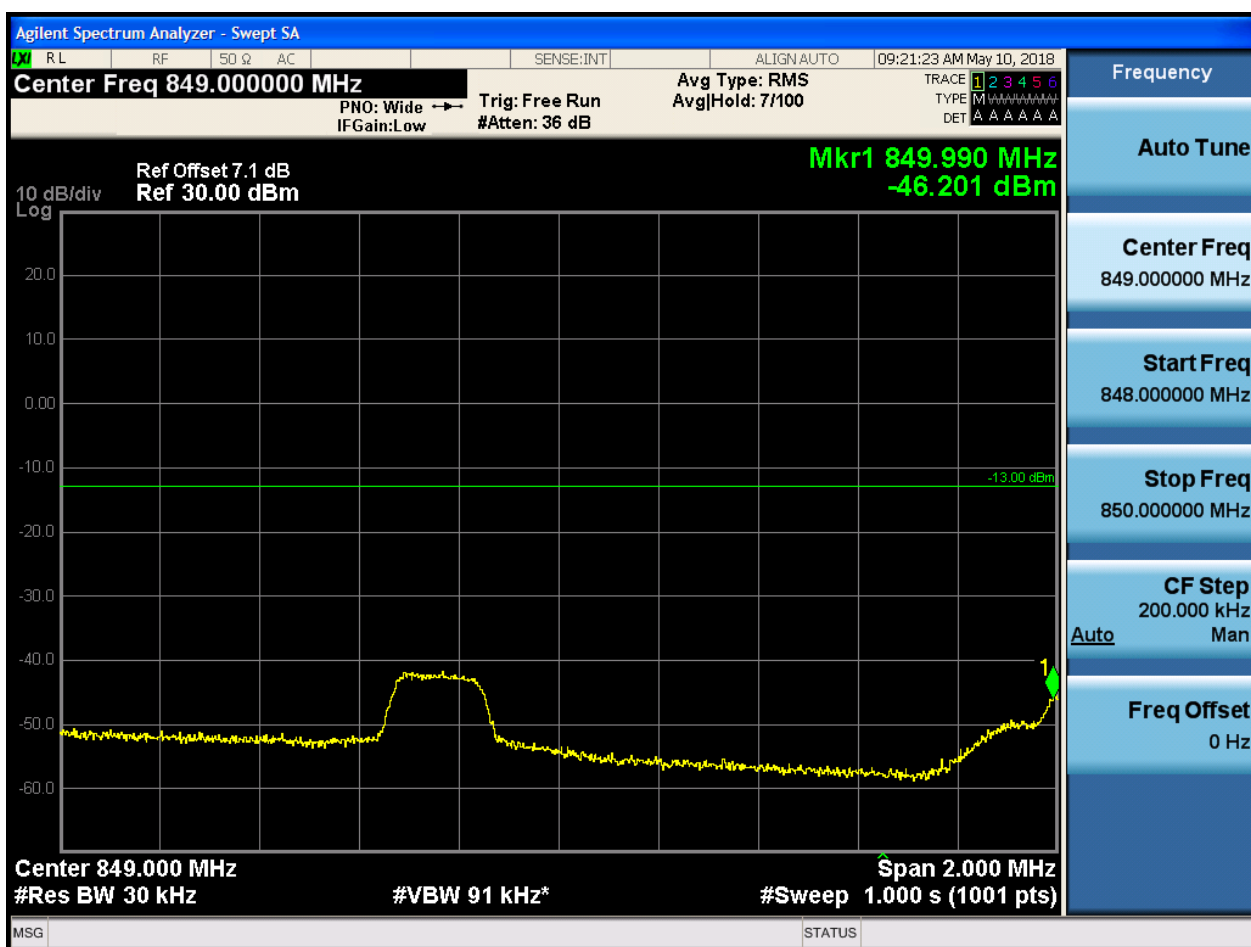


5.1.1.1.2.1.4 Test RB = RB15#0



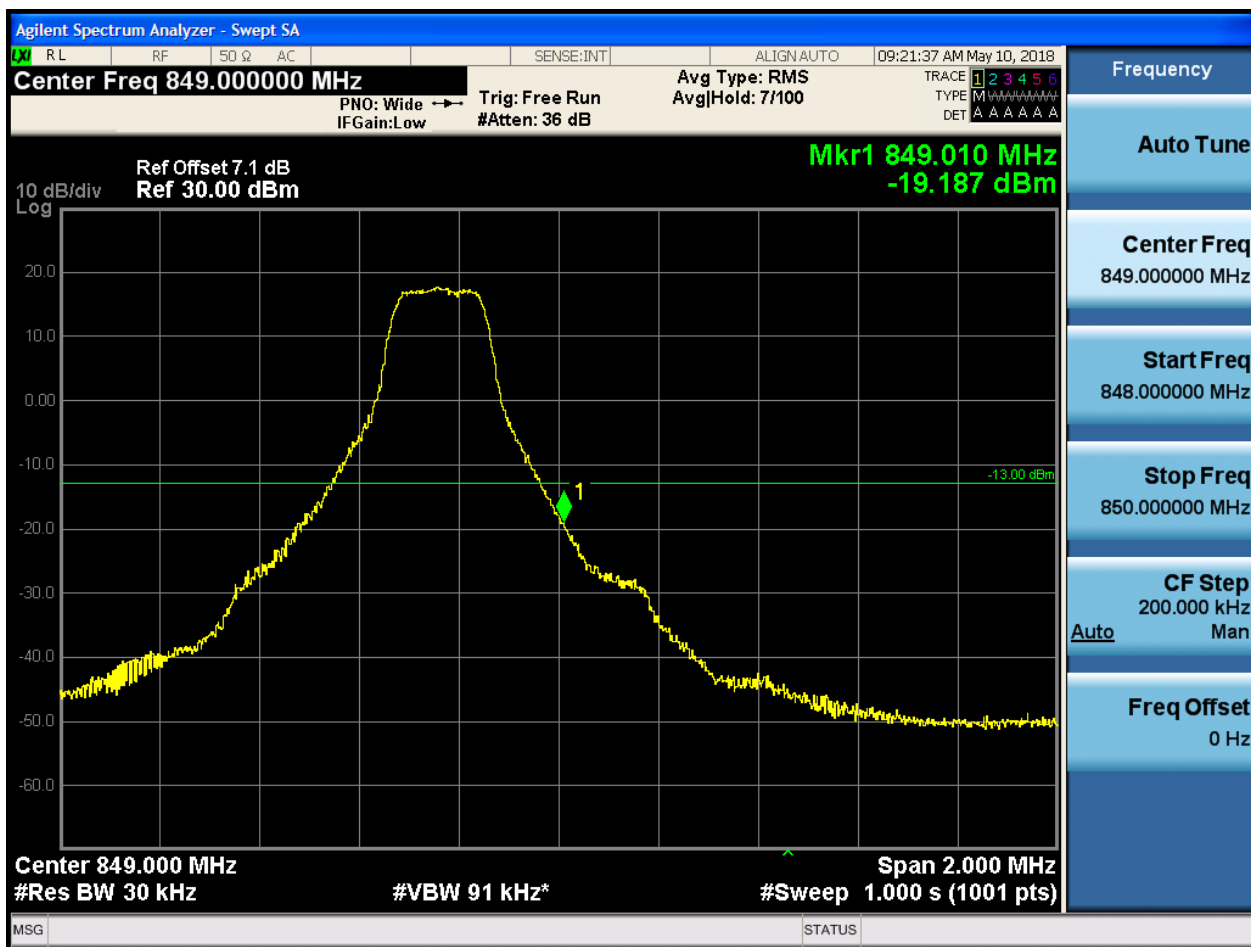
5.1.1.1.2.2 Test Channel = HCH

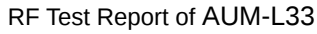
5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:21:50 AM May 10, 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 W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-31.689 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

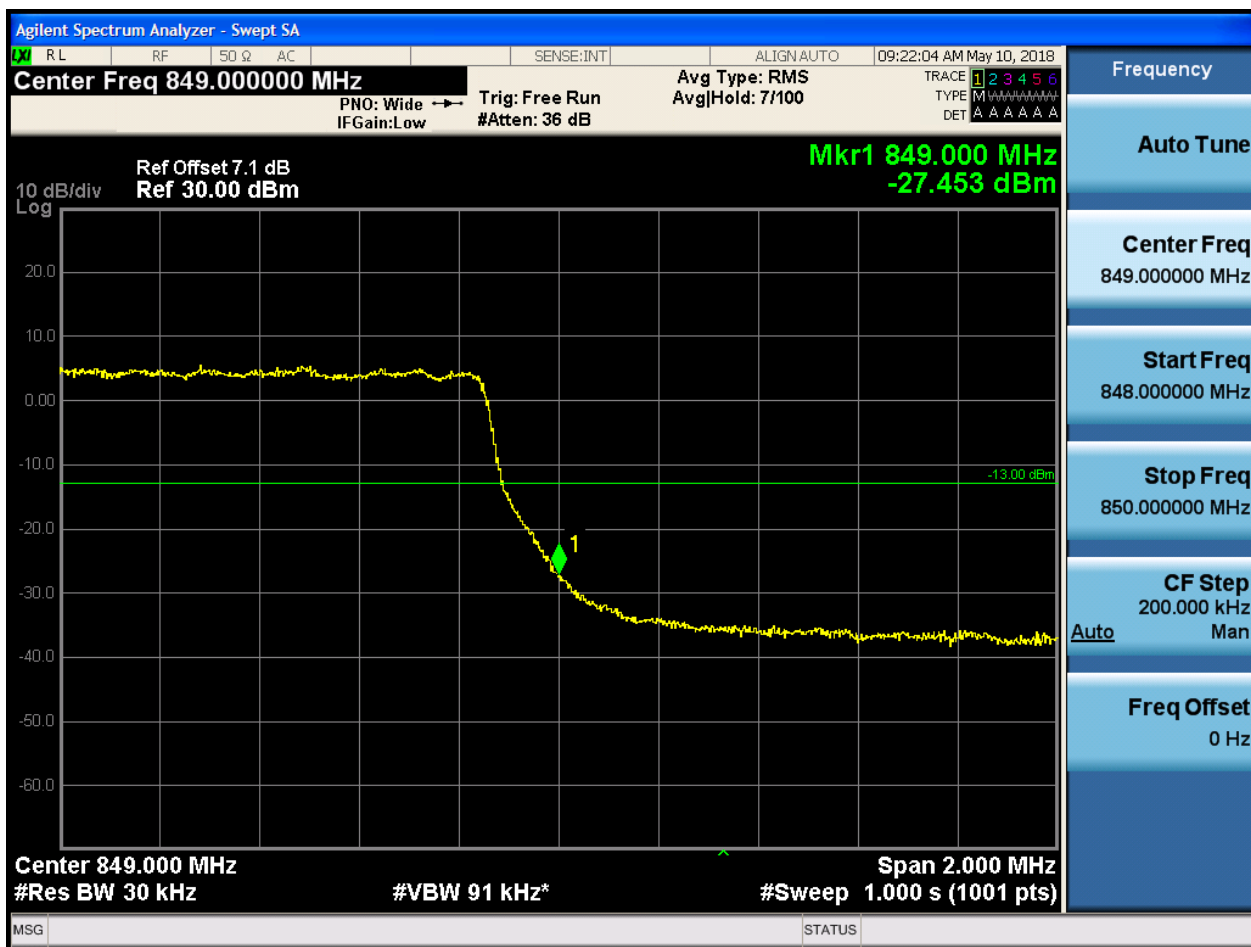
Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

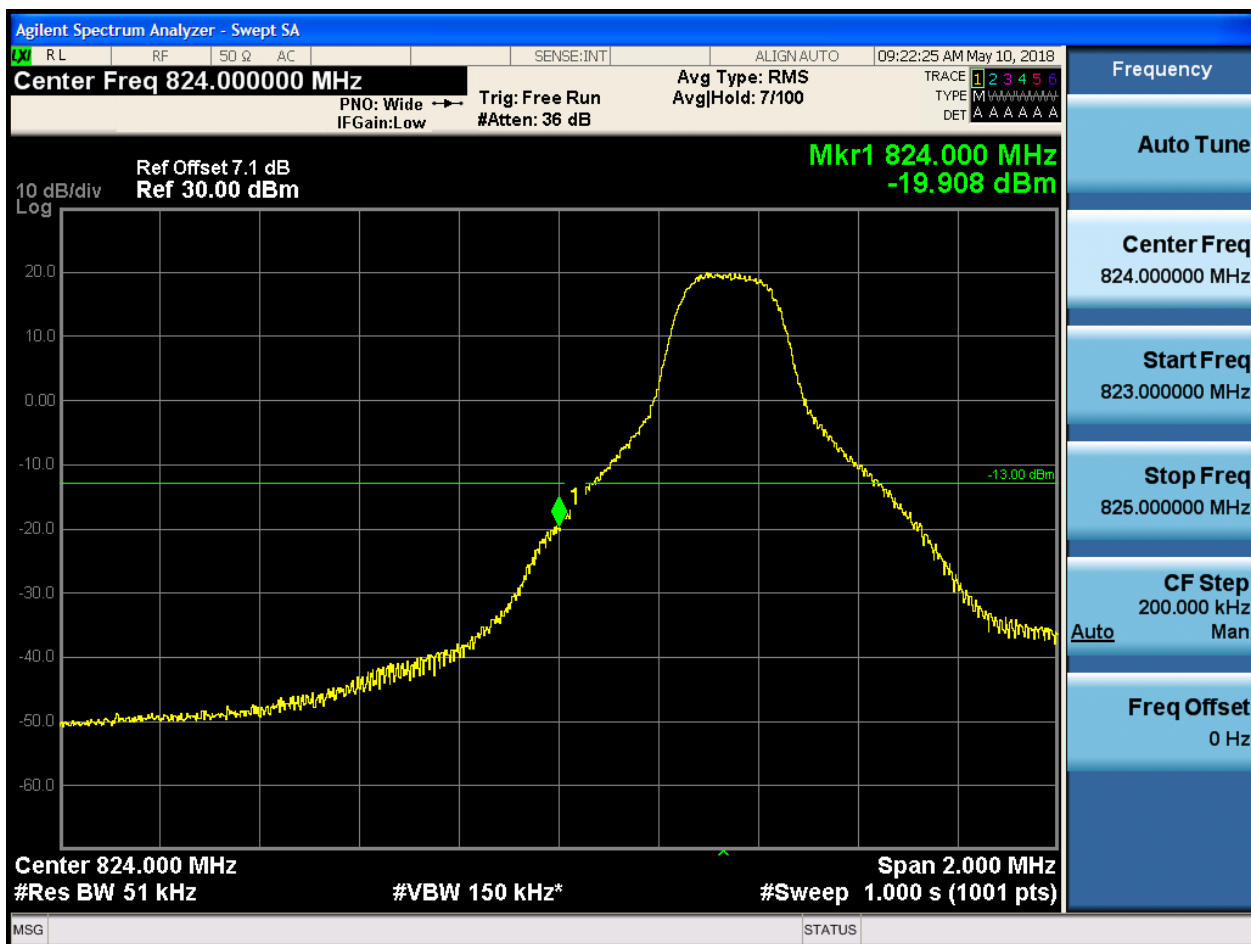
5.1.1.1.2.2.4 Test RB = RB15#0



5.1.1.1.3 Test Bandwidth = 5

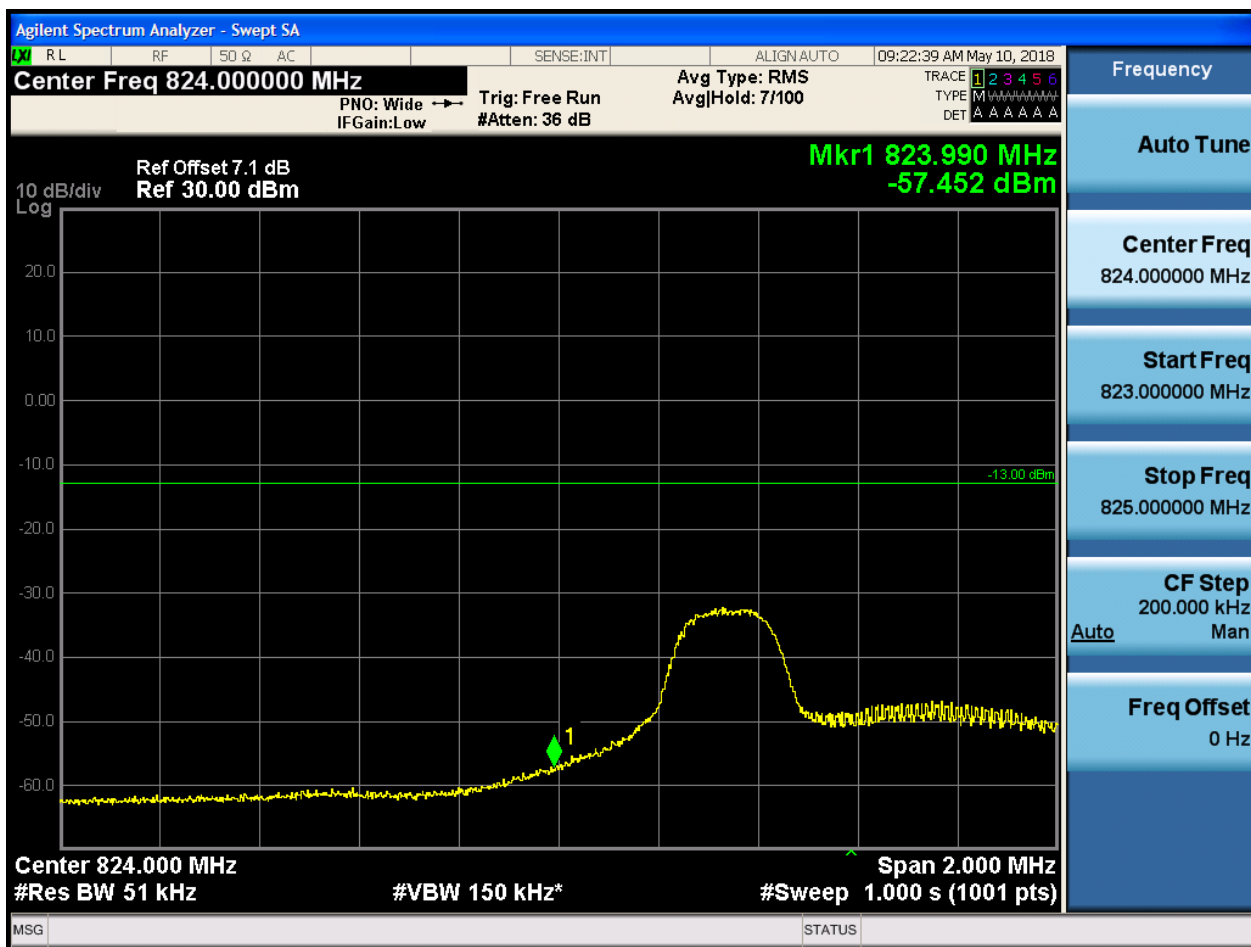
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





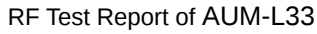
5.1.1.1.3.1.2 Test RB = RB1#24





5.1.1.1.3.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:23:07 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-26.703 dBm

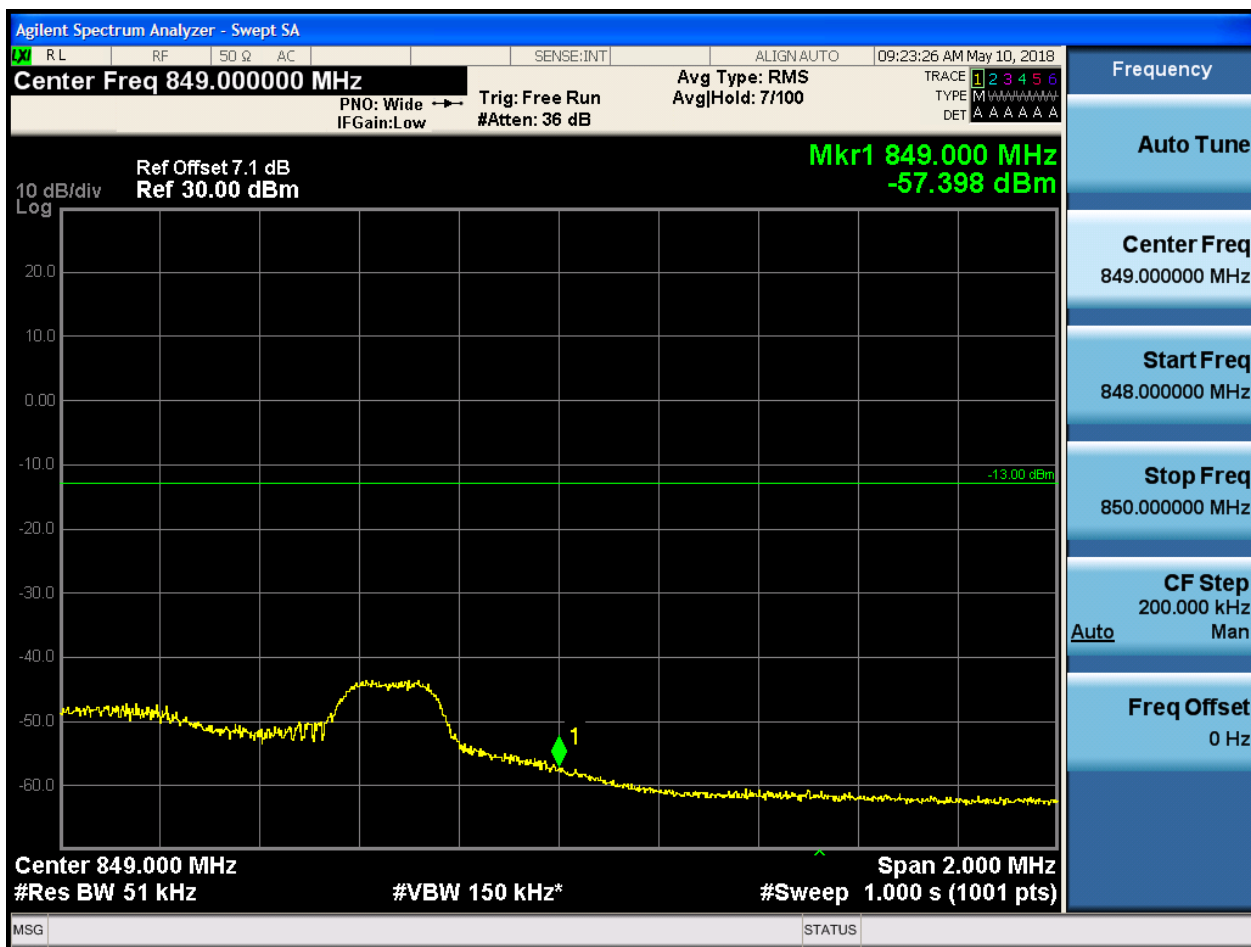
10 dB/div
Log

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

MSG STATUS

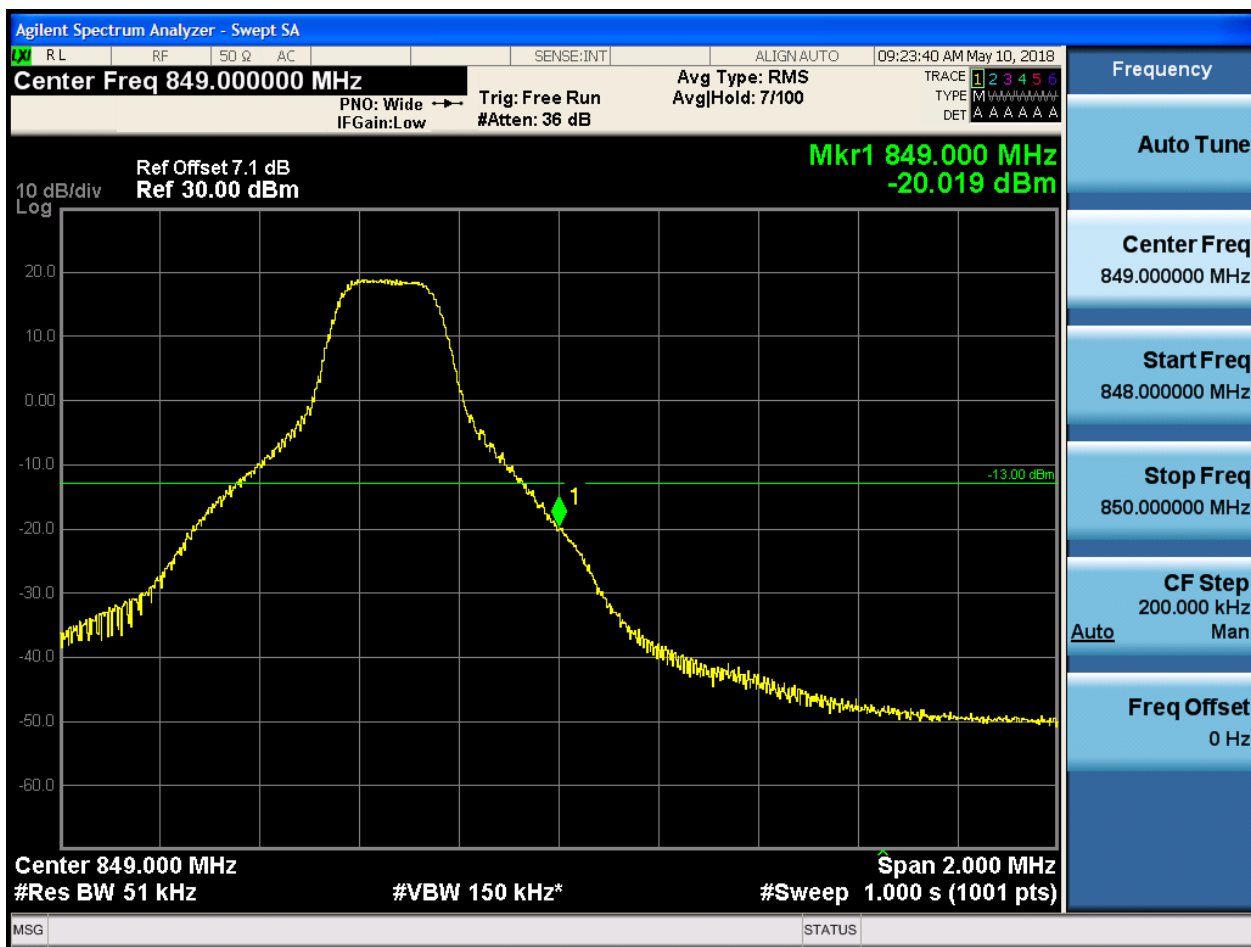
5.1.1.1.3.2 Test Channel = HCH

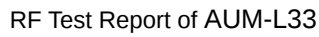
5.1.1.1.3.2.1 Test RB = RB1#0





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 09:23:53 AM May 10, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

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

10 dB/div
Log

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-34.134 dBm

-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



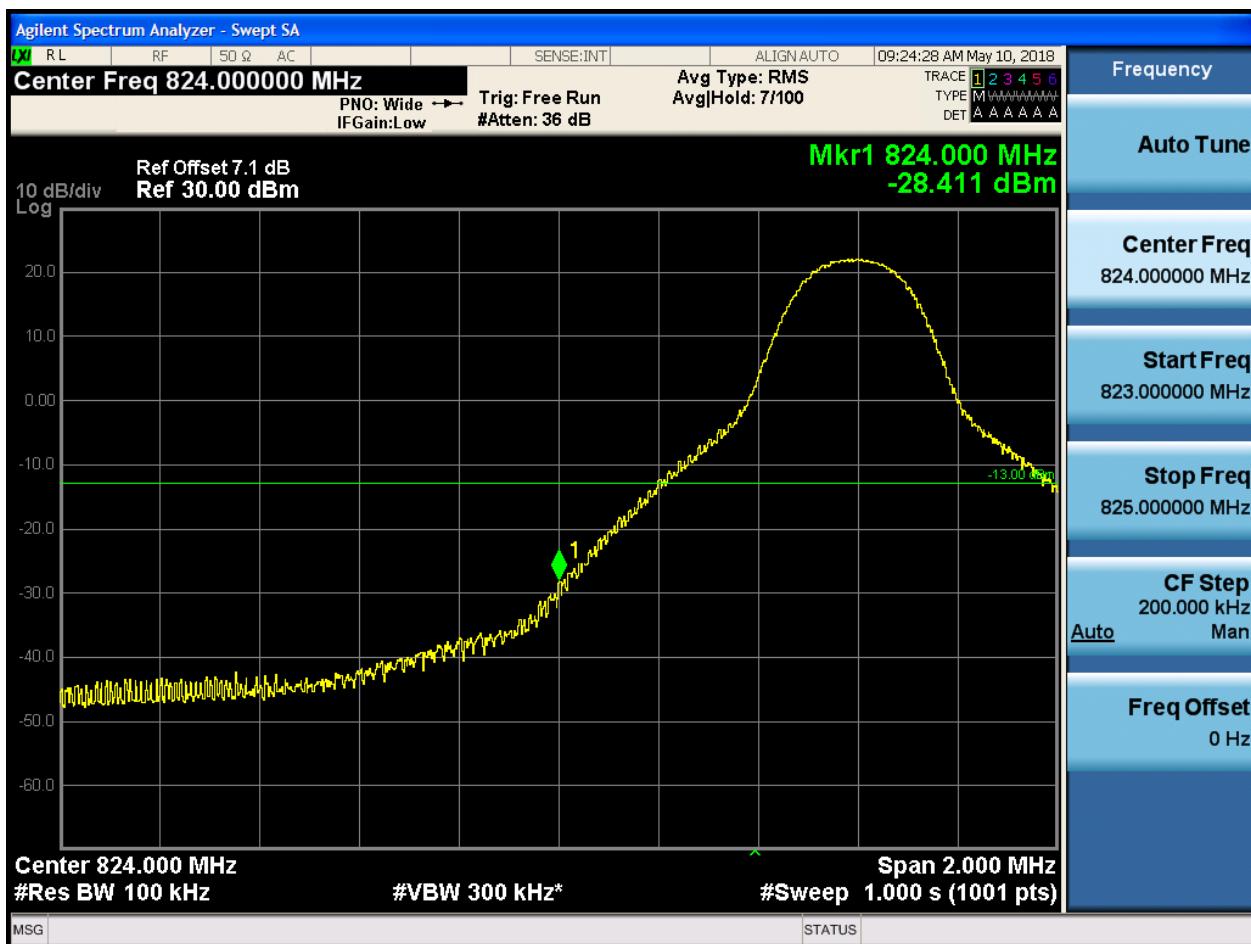
5.1.1.1.3.2.4 Test RB = RB25#0



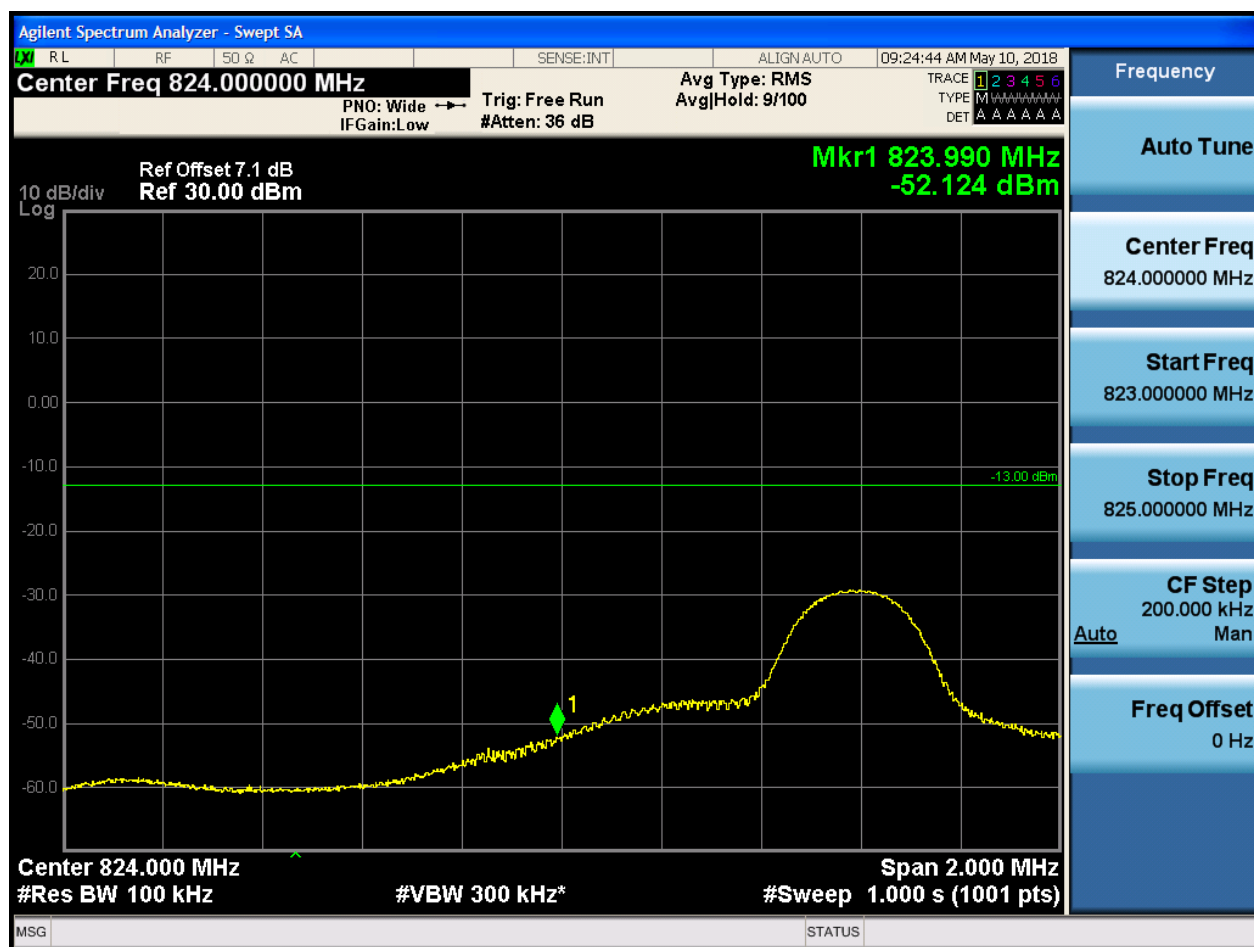
5.1.1.1.4 Test Bandwidth = 10

5.1.1.1.4.1 Test Channel = LCH

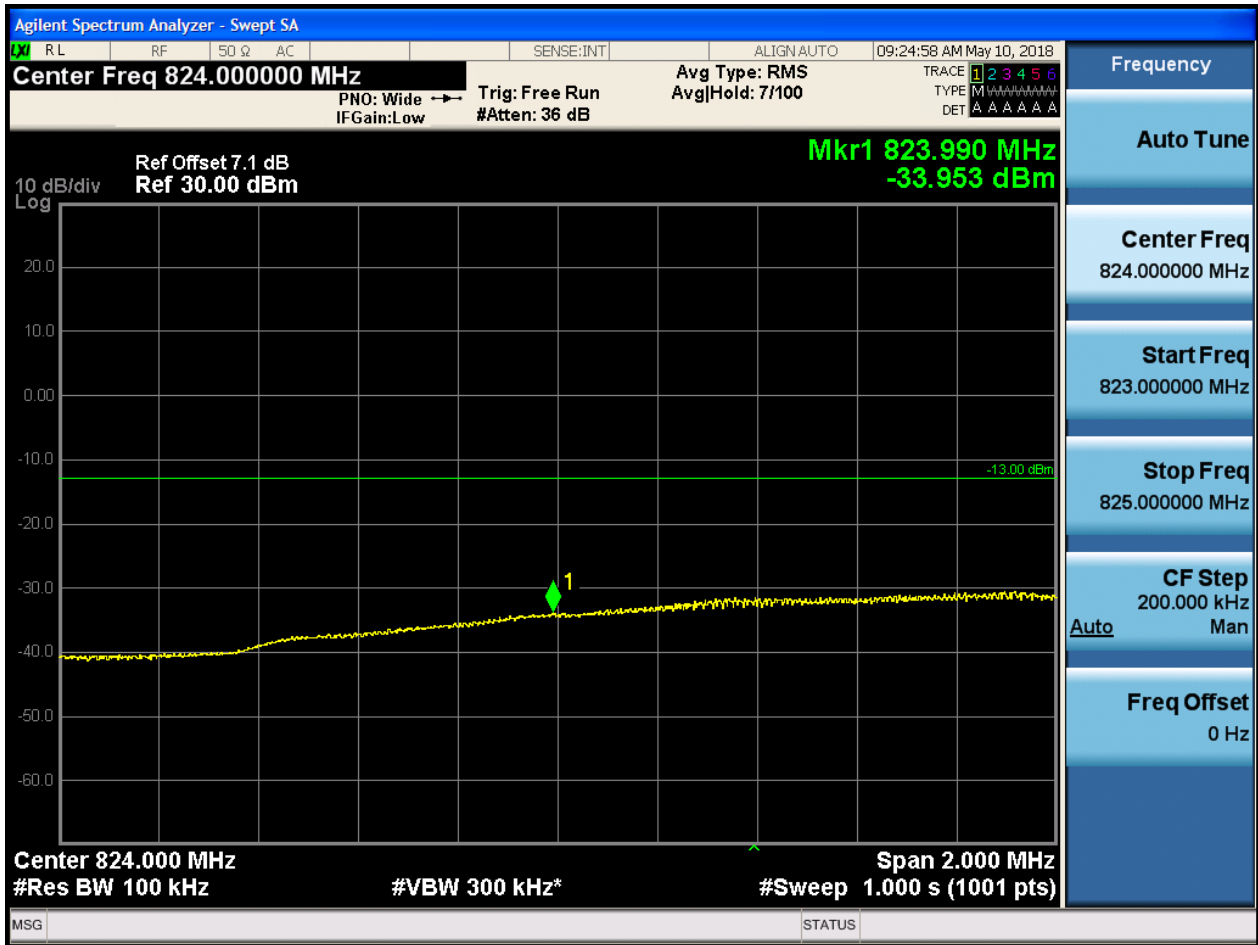
5.1.1.1.4.1.1 Test RB = RB1#0

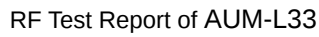


5.1.1.1.4.1.2 Test RB = RB1#49



5.1.1.1.4.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:25:11 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-30.474 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

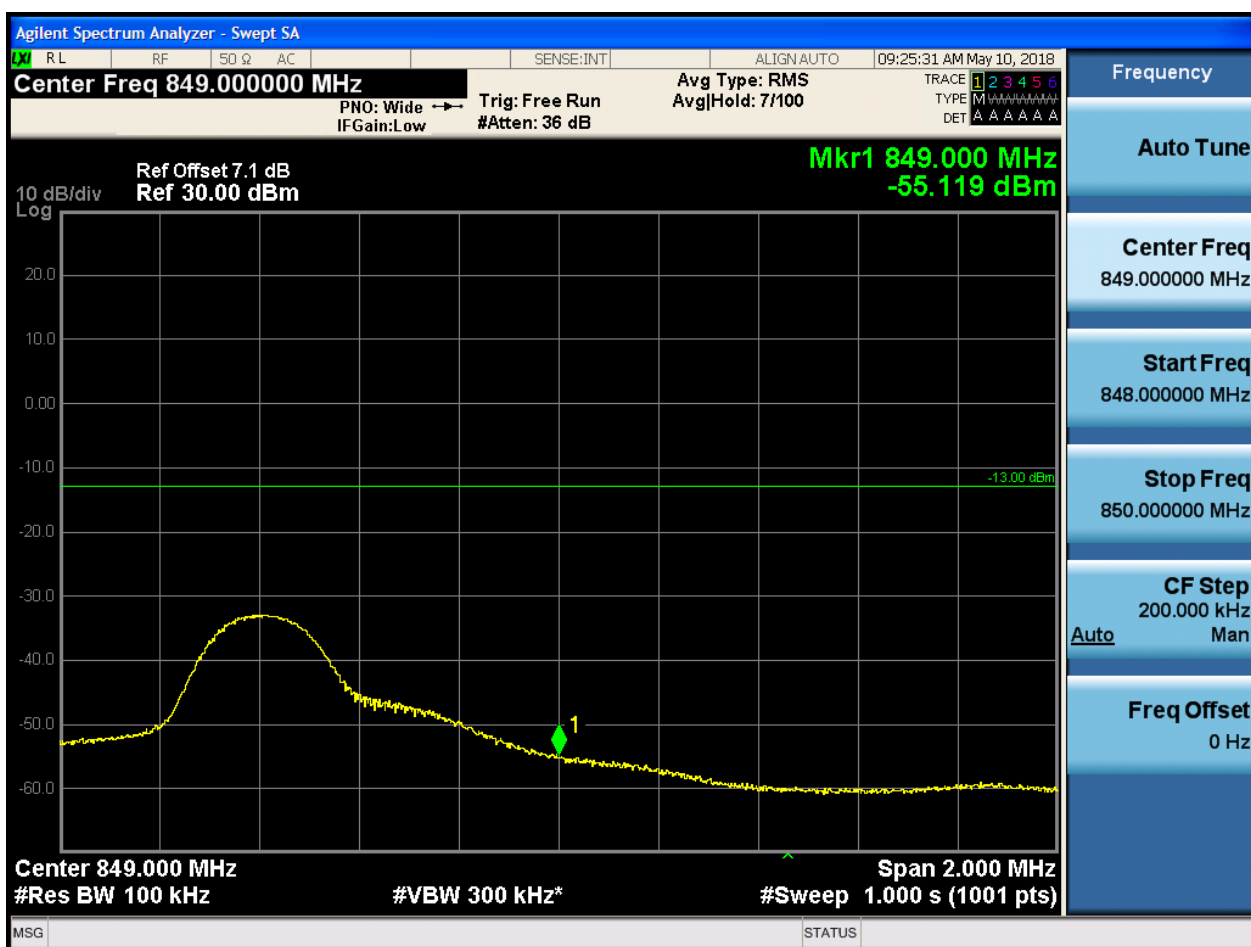
Stop Freq
825.000000 MHz

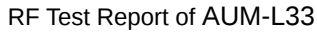
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.4.2 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 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 849.000 MHz
-30.125 dBm

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

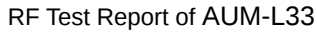
Frequency
Auto Tune
Center Freq
849.000000 MHz
Start Freq
848.000000 MHz
Stop Freq
850.000000 MHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

MSG STATUS



5.1.1.1.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:26:12 AM May 10, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-30.815 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

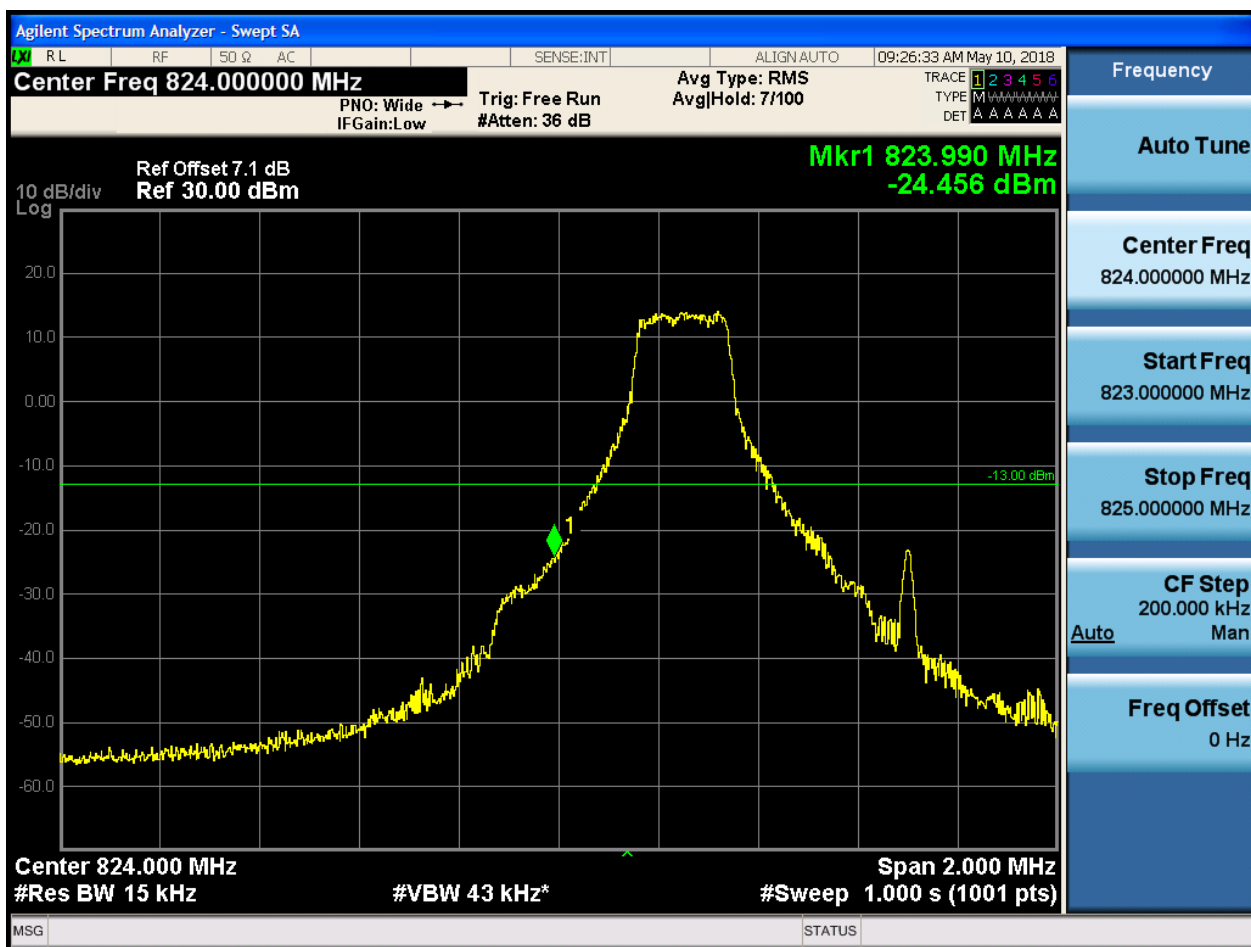
Freq Offset
0 Hz

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

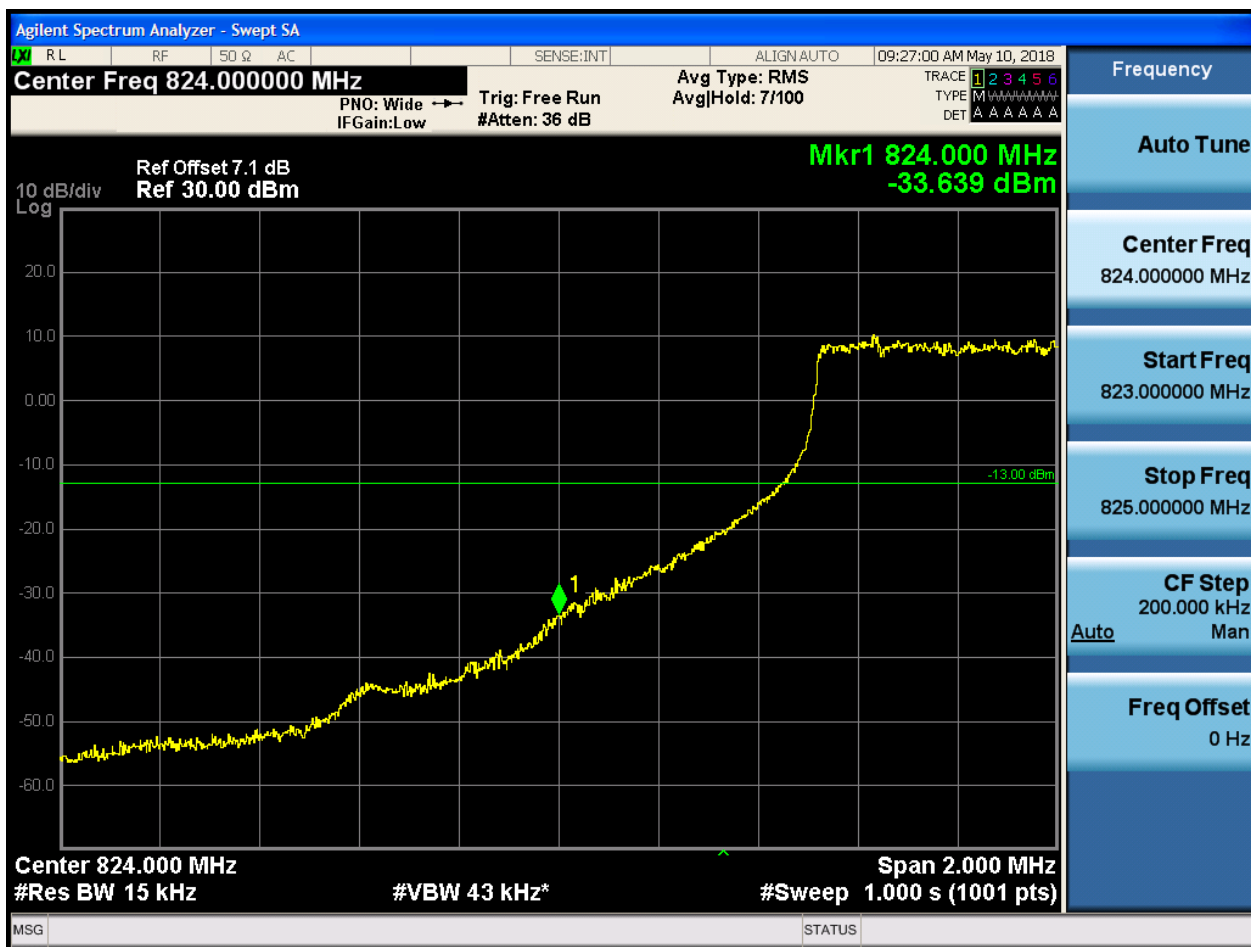


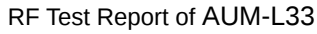
5.1.1.2.1.1.2 Test RB = RB1#5





5.1.1.2.1.1.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:27:14 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-29.721 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



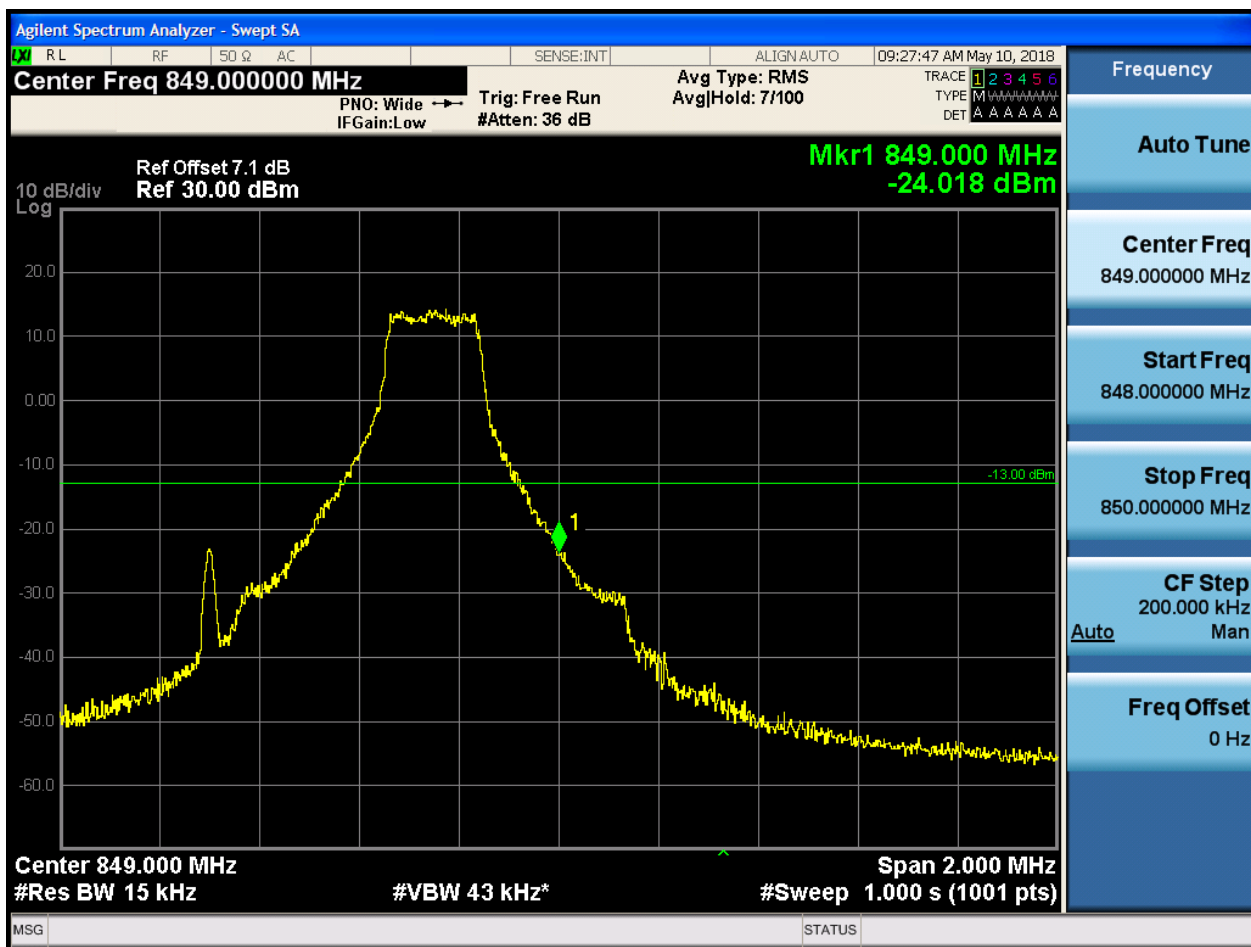
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





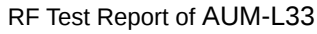
5.1.1.2.1.2.2 Test RB = RB1#5





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 09:28:14 AM May 10, 2018

Center Freq 849.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 849.000 MHz
-28.571 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)

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

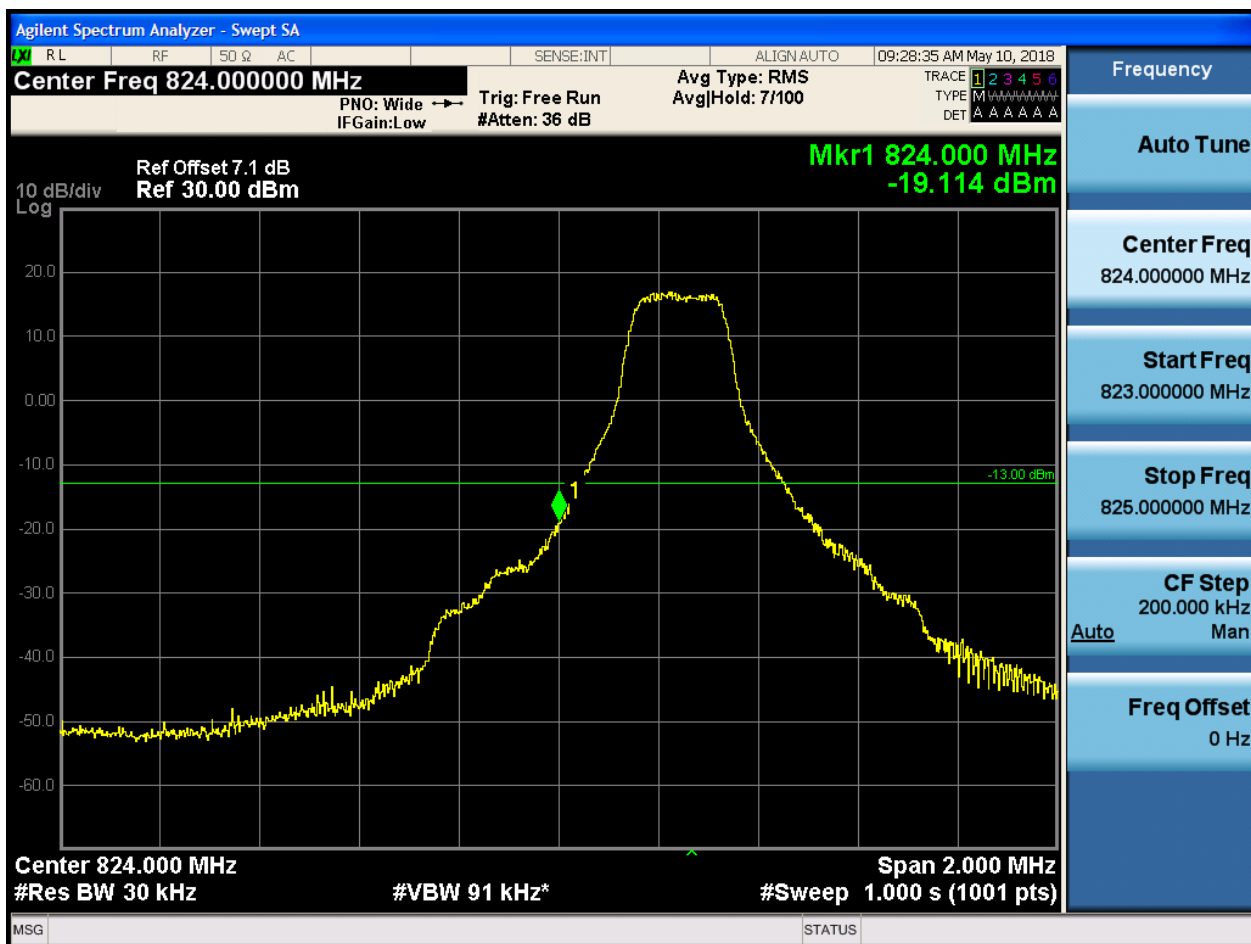
Freq Offset
0 Hz

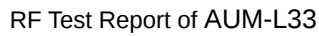


5.1.1.2.2 Test Bandwidth = 3

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 09:28:49 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 71/100
#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 7.1 dB Ref 30.00 dBm

Mkr1 823.010 MHz -45.122 dBm

-13.00 dBm

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

MSG STATUS

Frequency

Auto Tune

Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

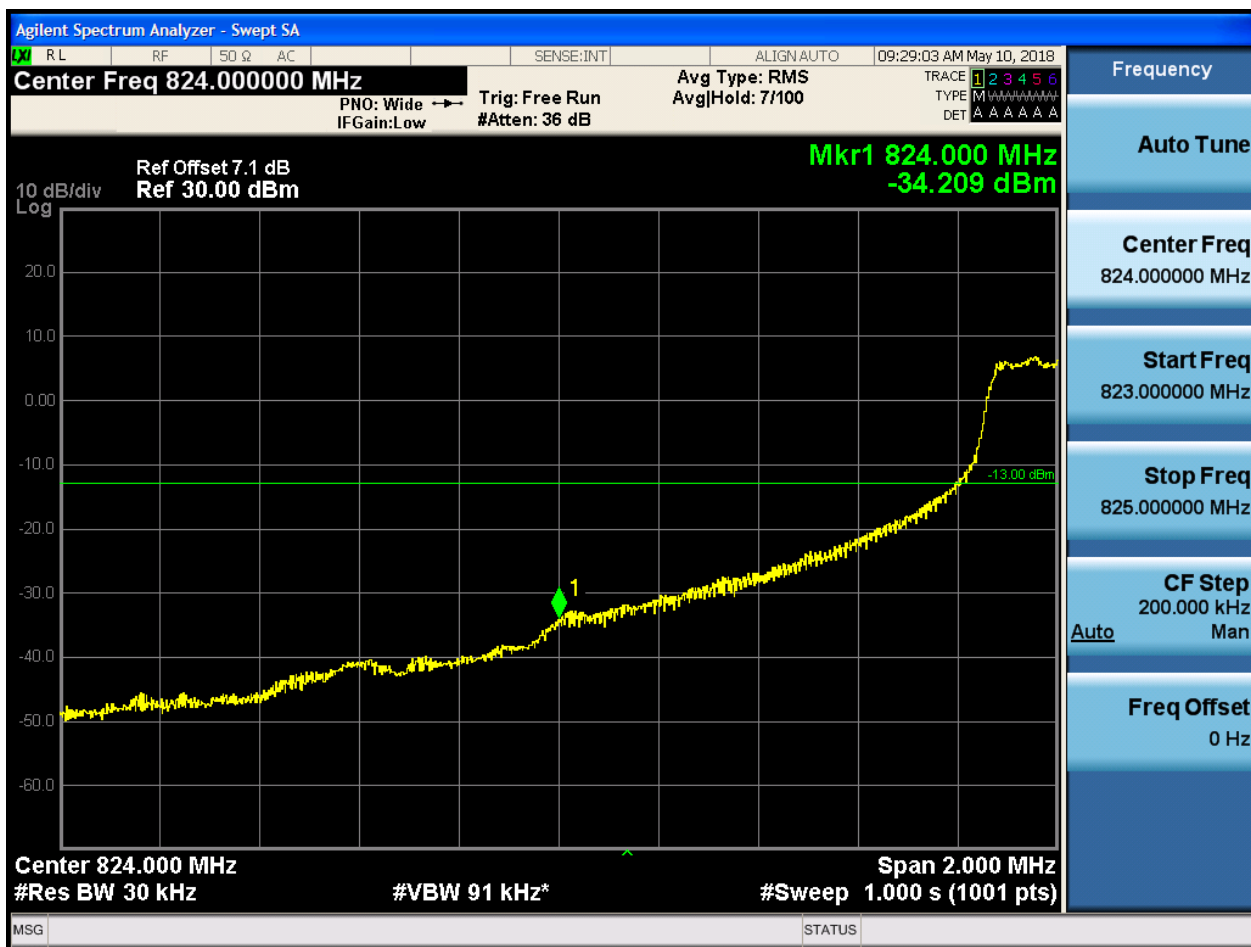
Stop Freq
825.000000 MHz

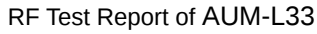
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.2.1.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:29:16 AM May 10, 2018

Center Freq 824.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 7/100
#Atten: 36 dB

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

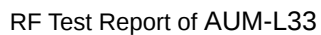
Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 824.000 MHz
-26.353 dBm

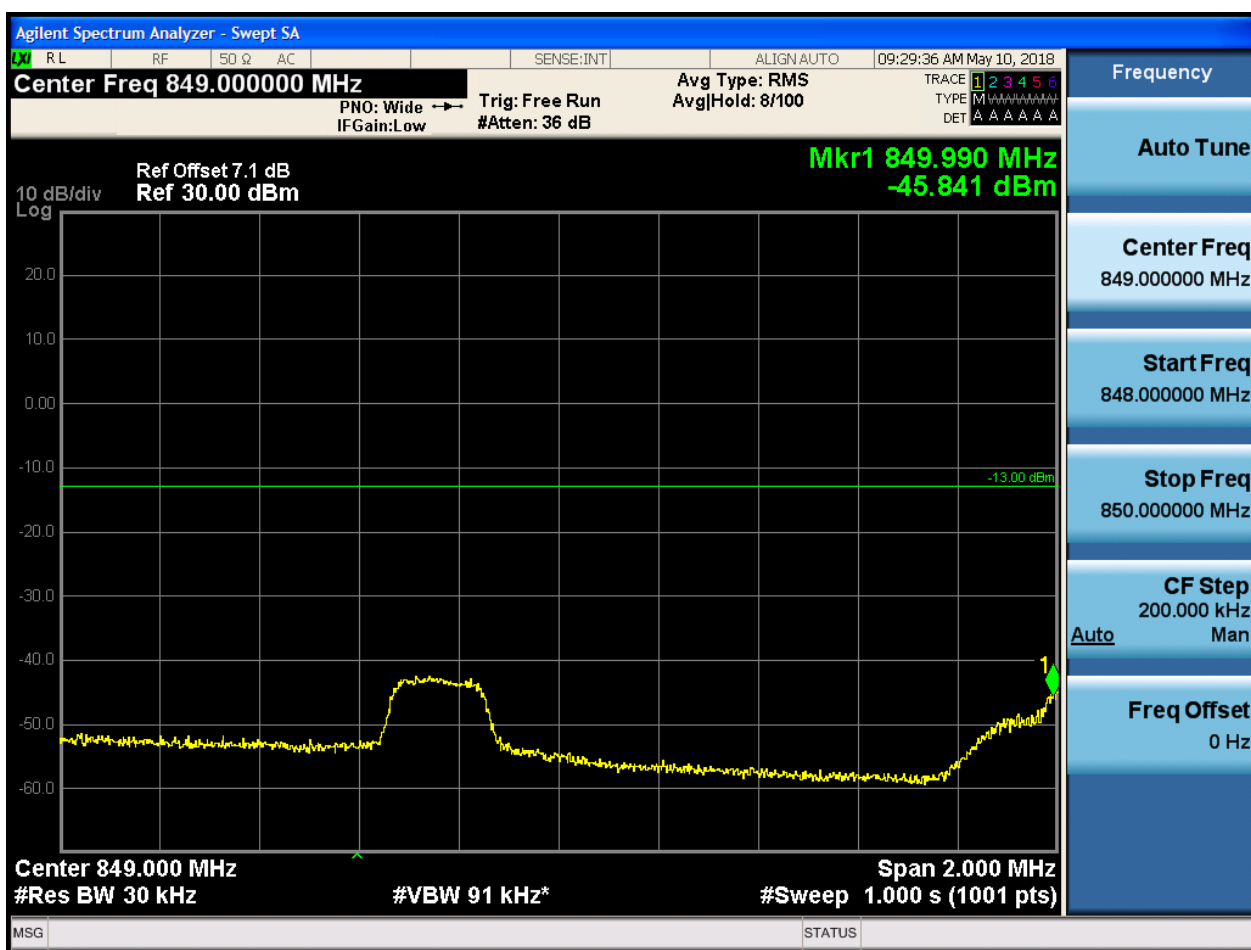
10 dB/div
Log

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

MSG STATUS

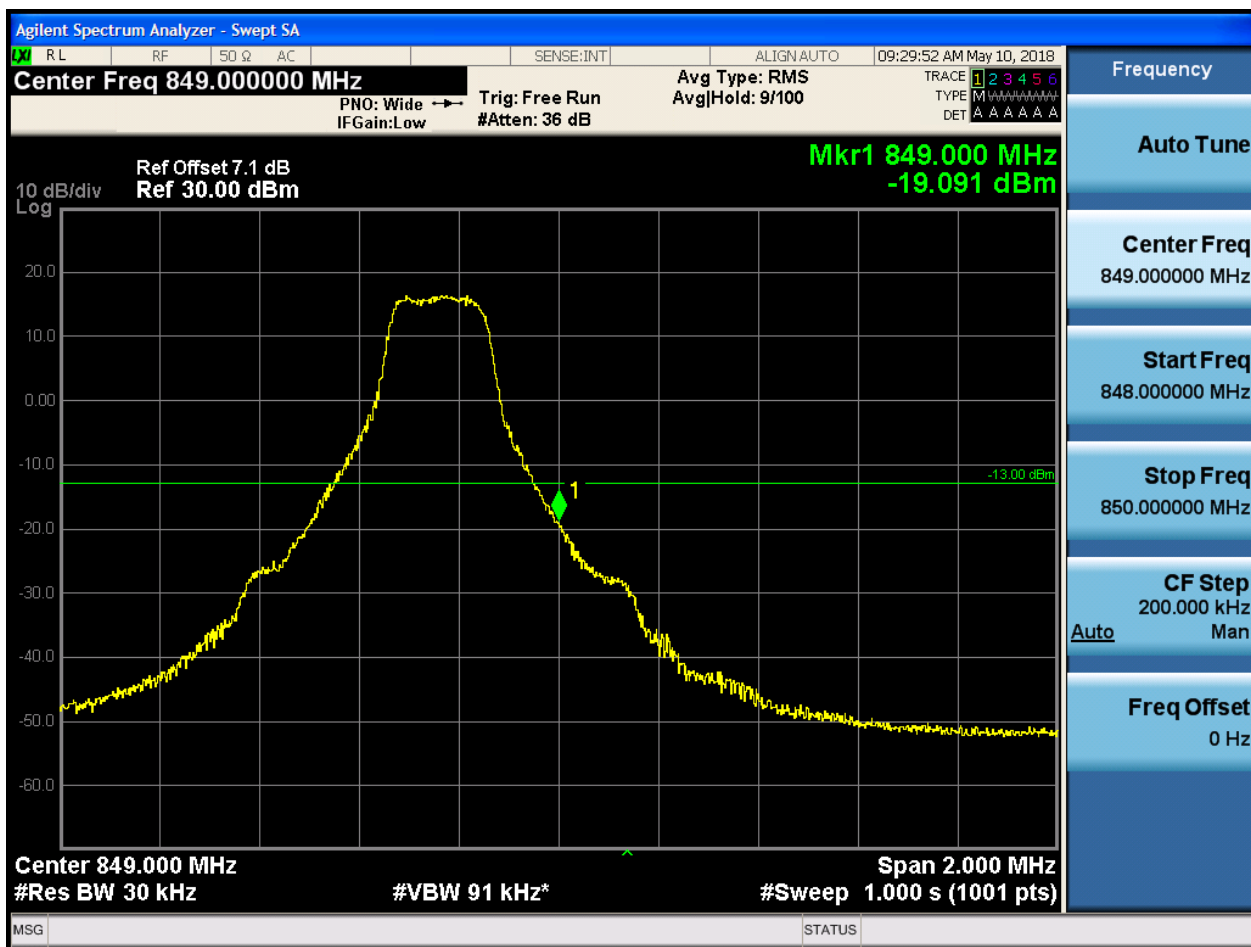


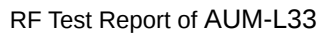
5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:30:07 AM May 10, 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 7.1 dB
 Ref 30.00 dBm

Mkr1 849.010 MHz
 -33.377 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

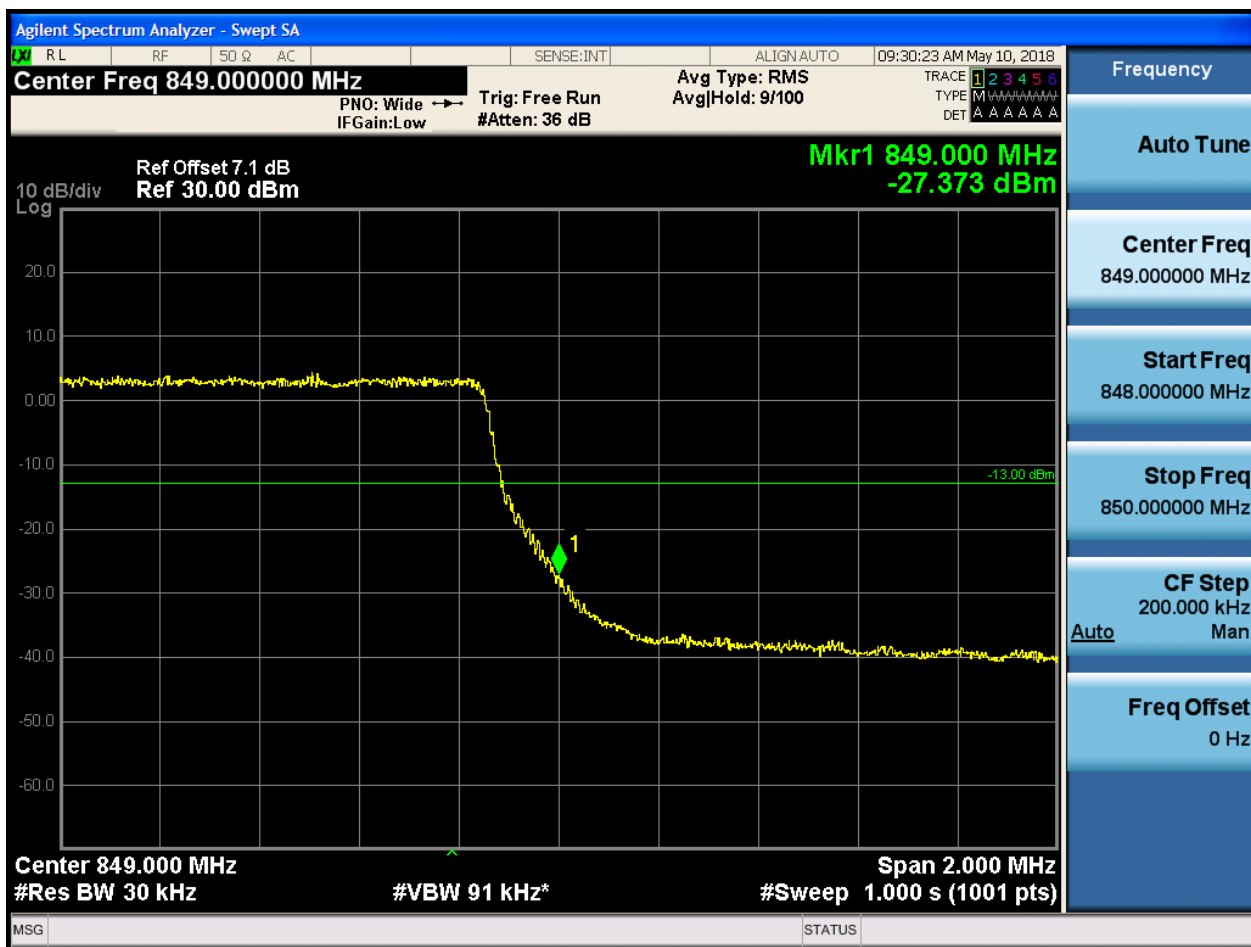
Stop Freq
 850.000000 MHz

CF Step
 200.000 kHz
 Auto Man

Freq Offset
 0 Hz



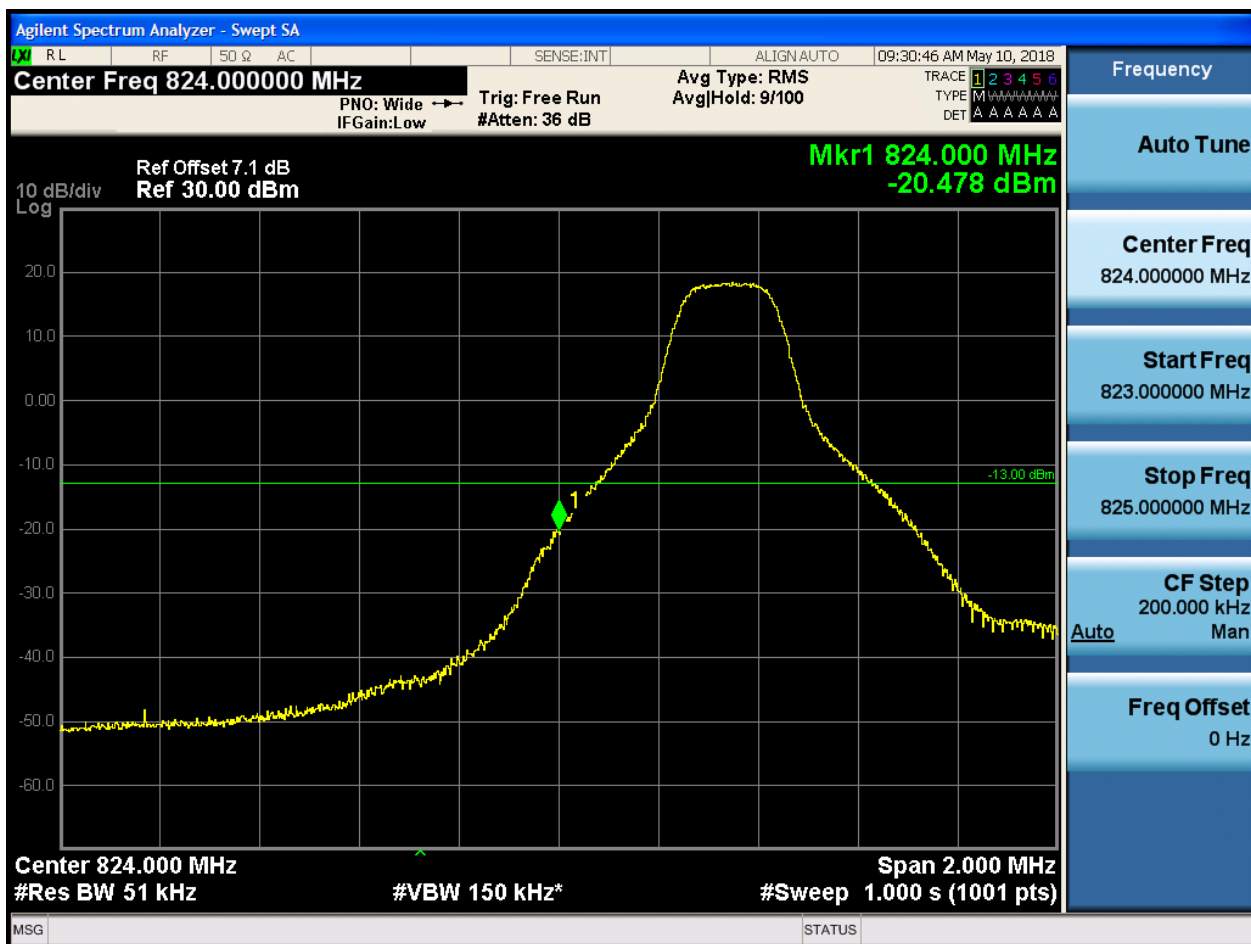
5.1.1.2.2.4 Test RB = RB15#0

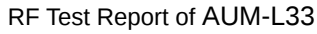


5.1.1.2.3 Test Bandwidth = 5

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 09:31:02 AM May 10, 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 A A A A A A
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 823.990 MHz
-57.572 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

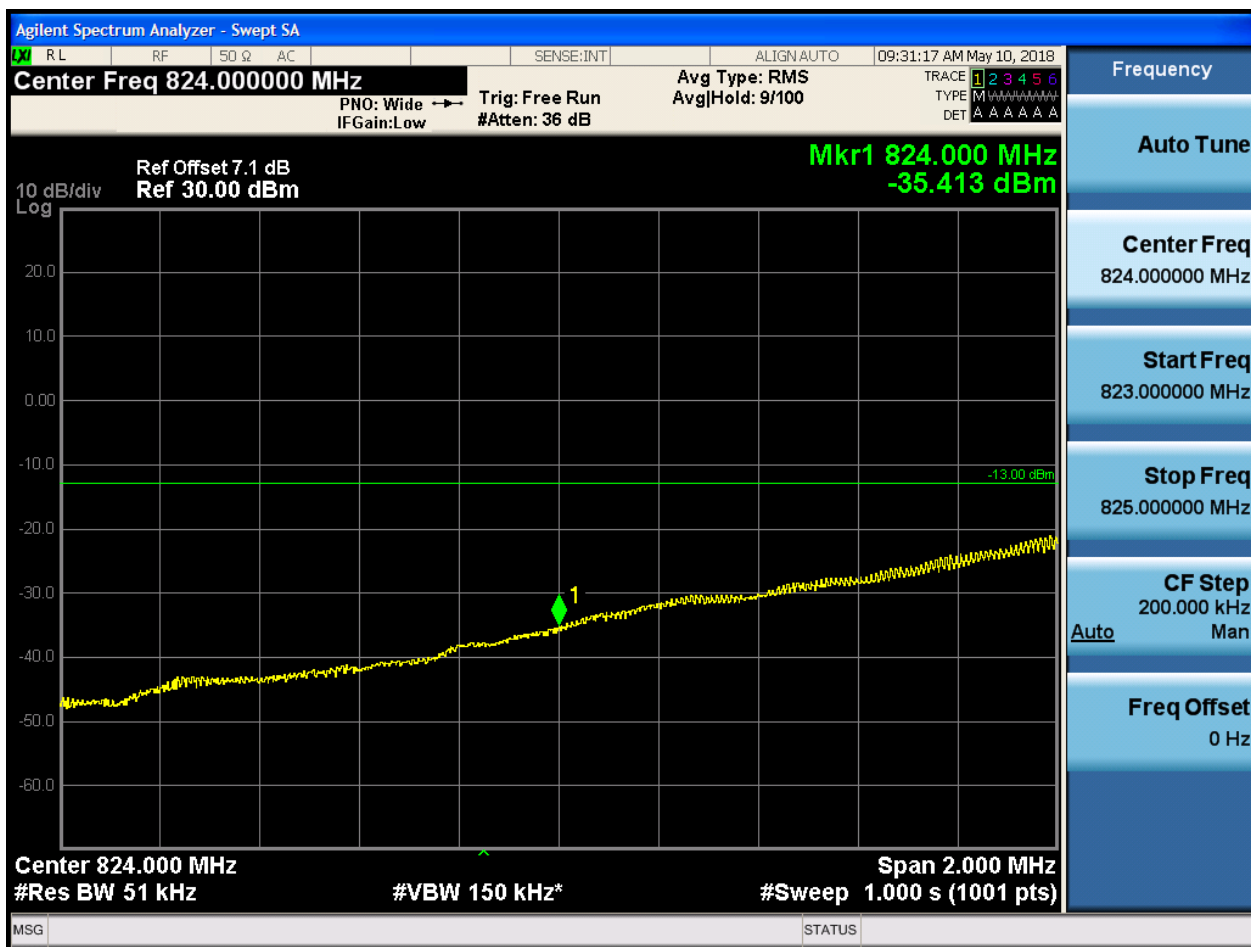
Stop Freq
825.000000 MHz

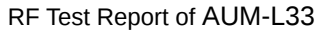
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.3.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-28.241 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

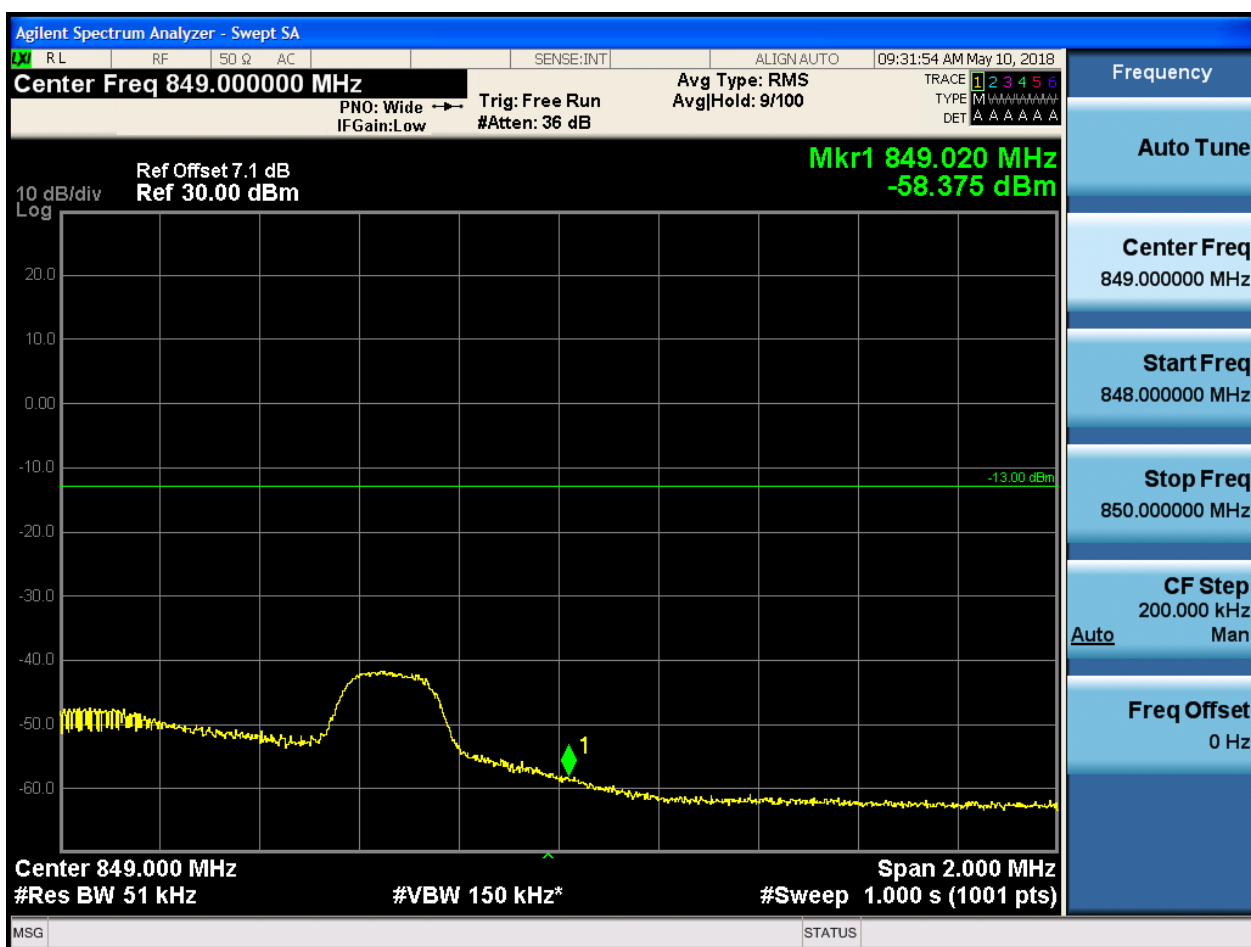
Stop Freq
825.000000 MHz

CF Step
200.000 kHz
Auto

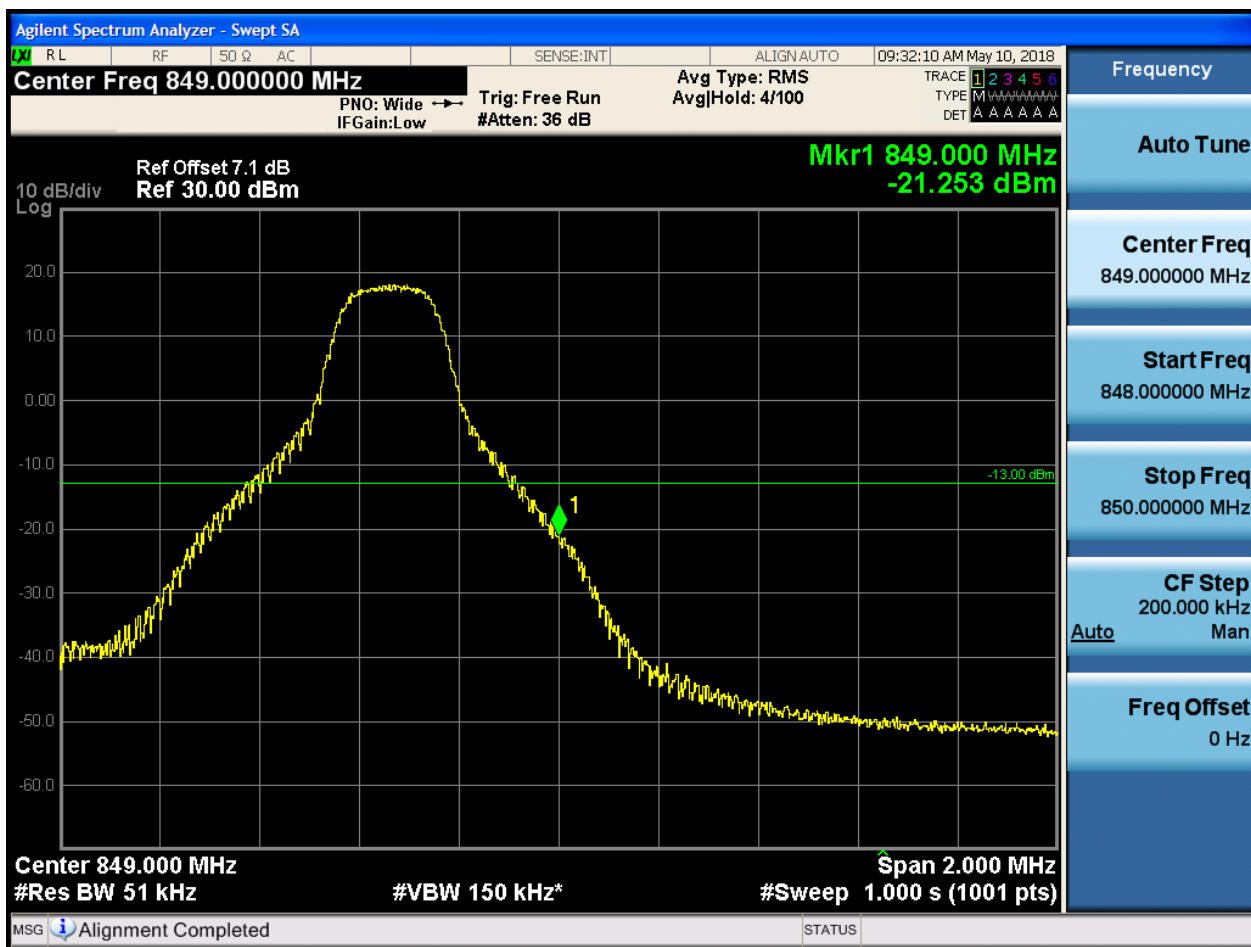
Freq Offset
0 Hz

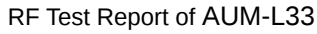
5.1.1.2.3.2 Test Channel = HCH

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 09:32:25 AM May 10, 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 W W
DET A A A A A A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-36.663 dBm

10 dB/div
Log

-13.00 dBm

Center 849.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 150 kHz*

Frequency

Auto Tune

Center Freq
849.000000 MHz

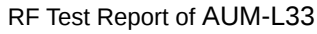
Start Freq
848.000000 MHz

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 09:32:41 AM May 10, 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 7.1 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-29.576 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

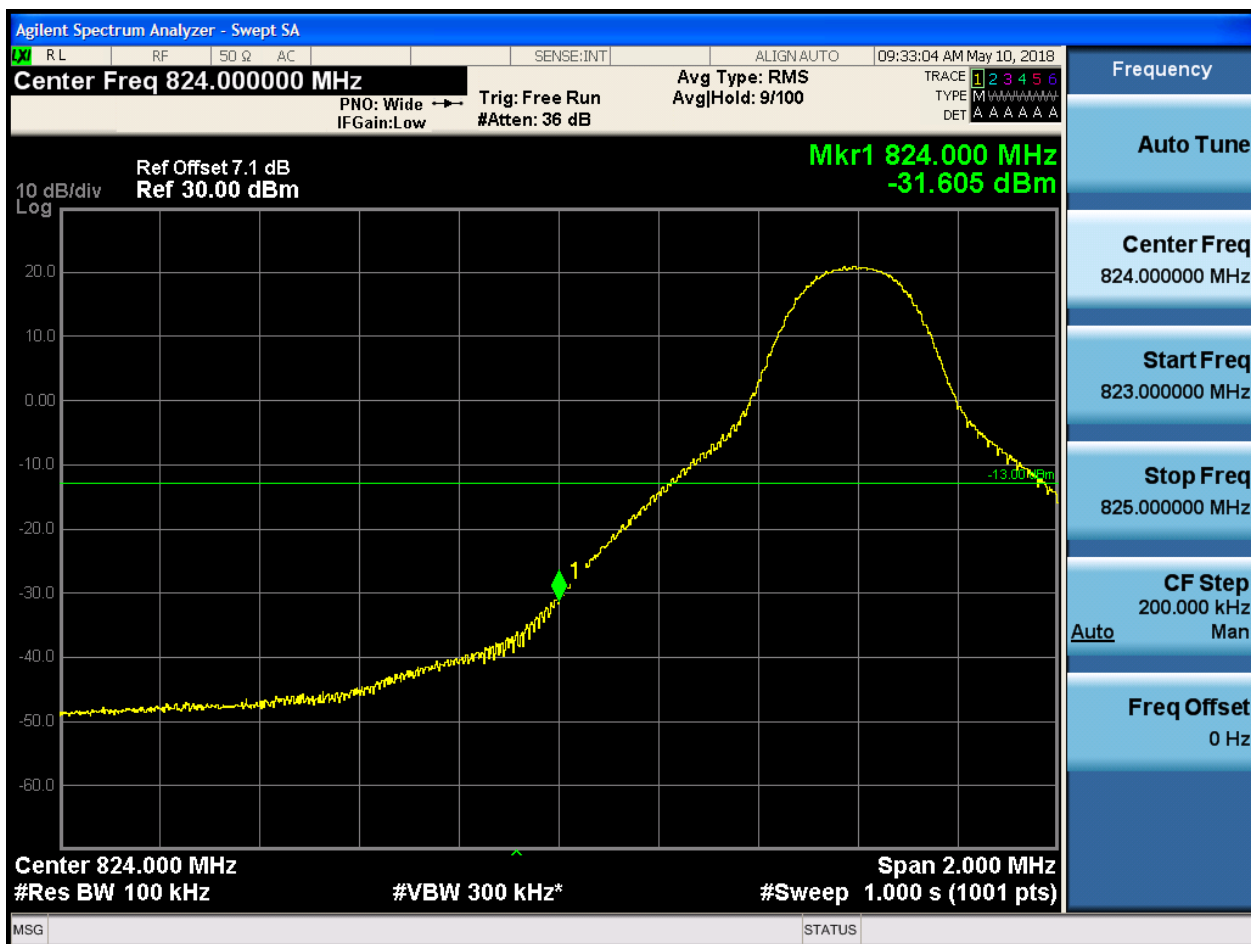
Freq Offset
0 Hz

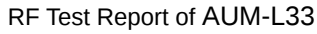


5.1.1.2.4 Test Bandwidth = 10

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:33:19 AM May 10, 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 7.1 dB
Ref 30.00 dBm

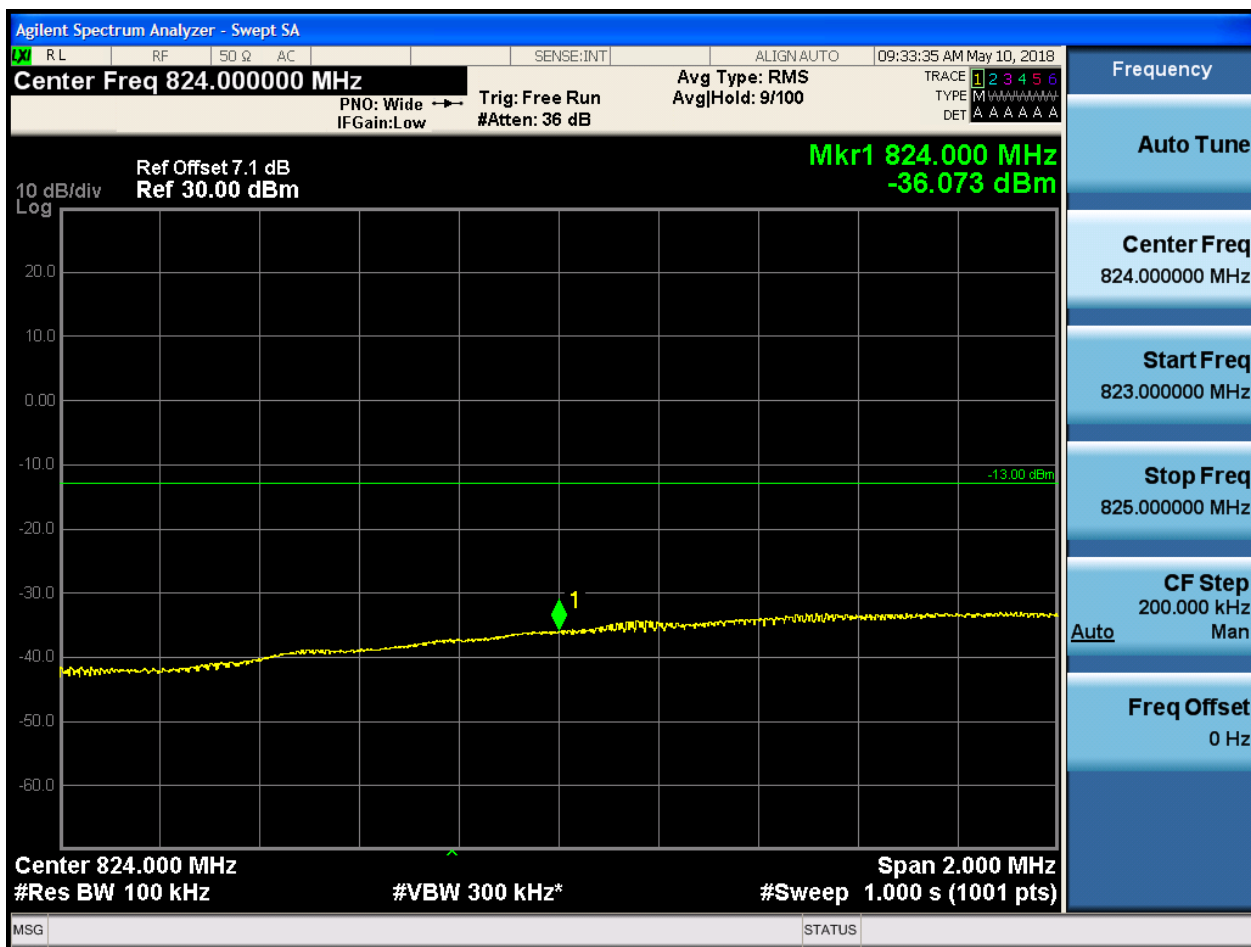
Mkr1 824.000 MHz
-50.868 dBm

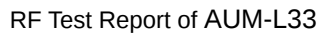
10 dB/div
Log

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

MSG STATUS

5.1.1.2.4.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

Center Freq 824.000000 MHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 824.000 MHz
-32.578 dBm

Center 824.000 MHz
#Res BW 100 kHz
#VBW 300 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

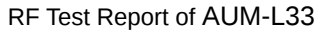
Freq Offset
0 Hz

Frequency	Power (dBm)
823.000000 MHz	-40.00
824.000000 MHz	-32.578
825.000000 MHz	0.00

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 09:34:28 AM May 10, 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 7.1 dB
Ref 30.00 dBm

Mkr1 849.010 MHz
-32.443 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

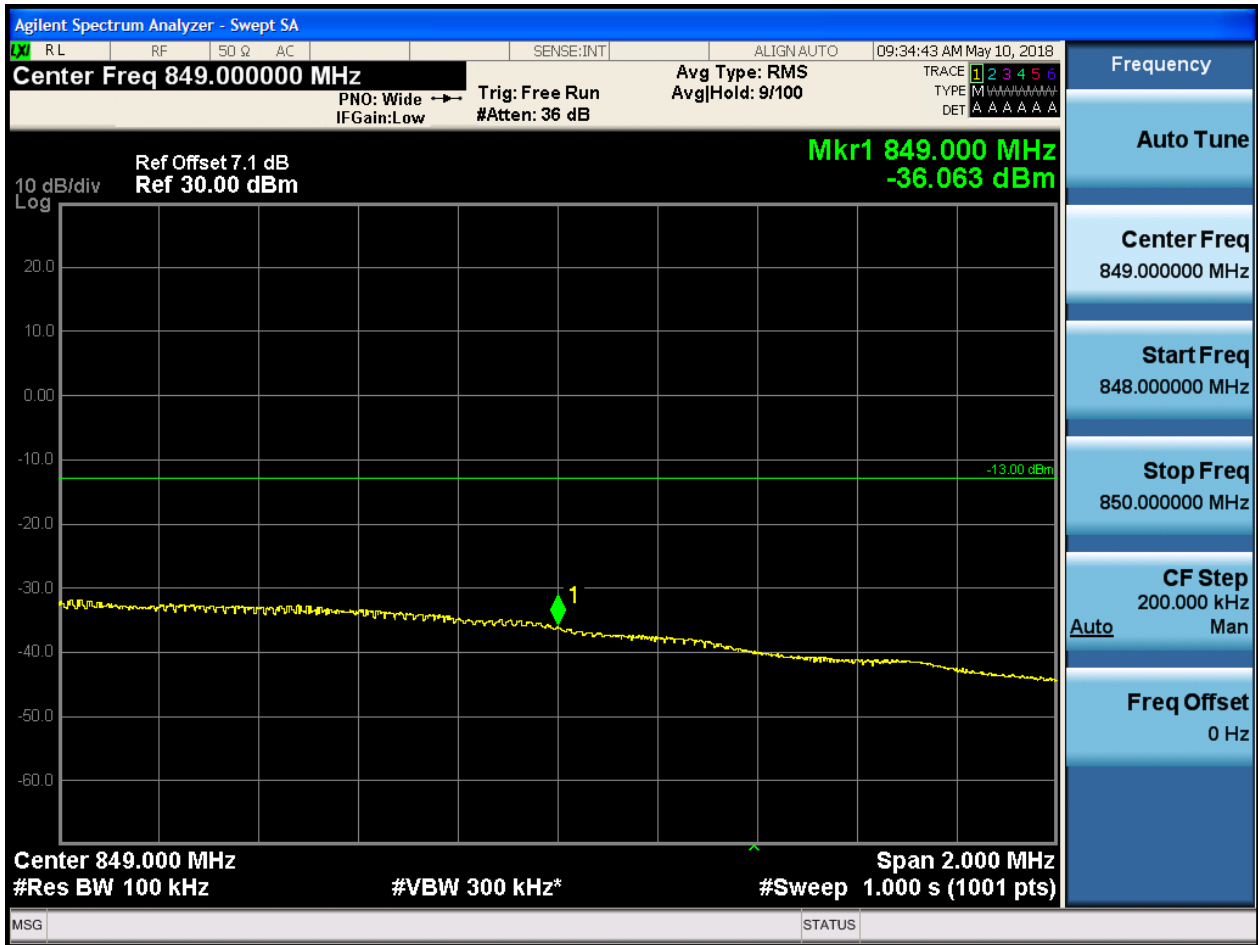
Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

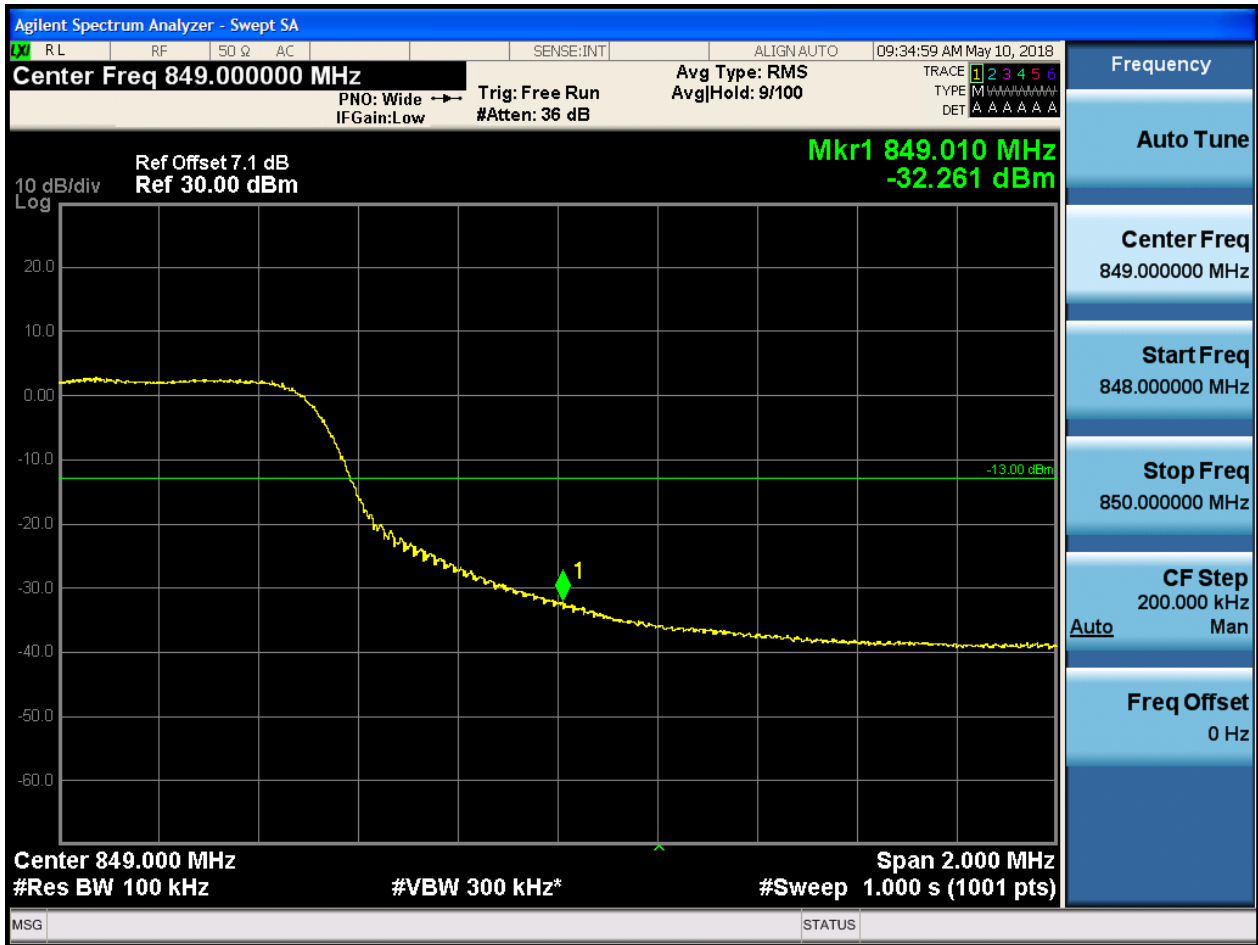
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

5.1.1.2.4.2.3 Test RB = RB25#13



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

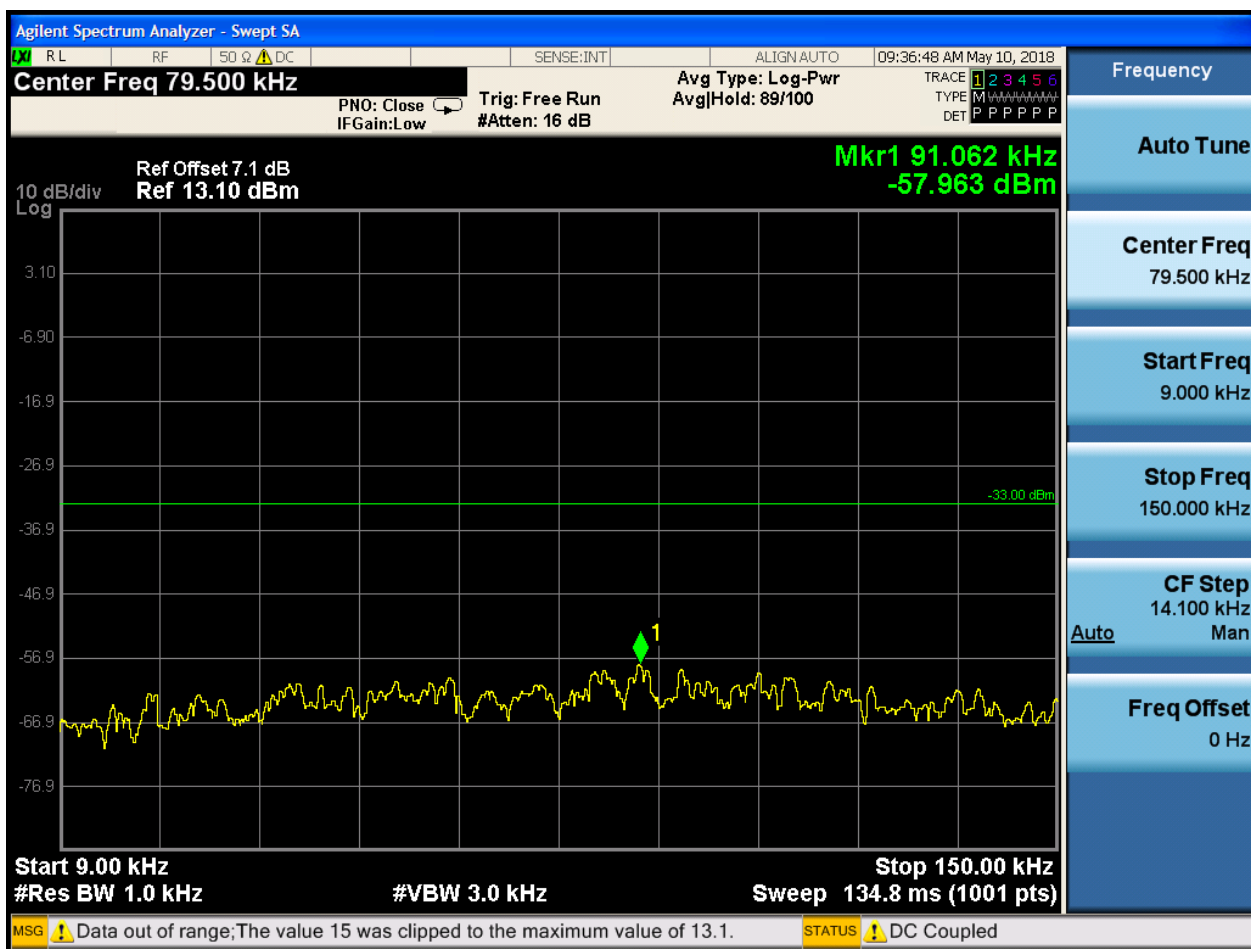
6.1.1 Test Band = BAND5

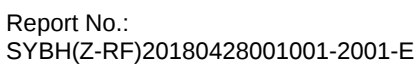
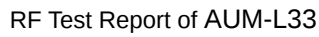
6.1.1.1 Test Mode = LTE/TM1

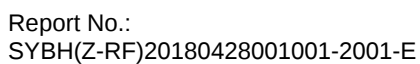
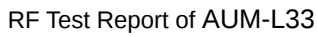
6.1.1.1.1 Test Bandwidth = 1.4

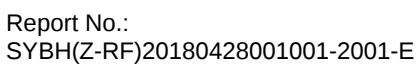
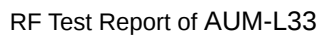
6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



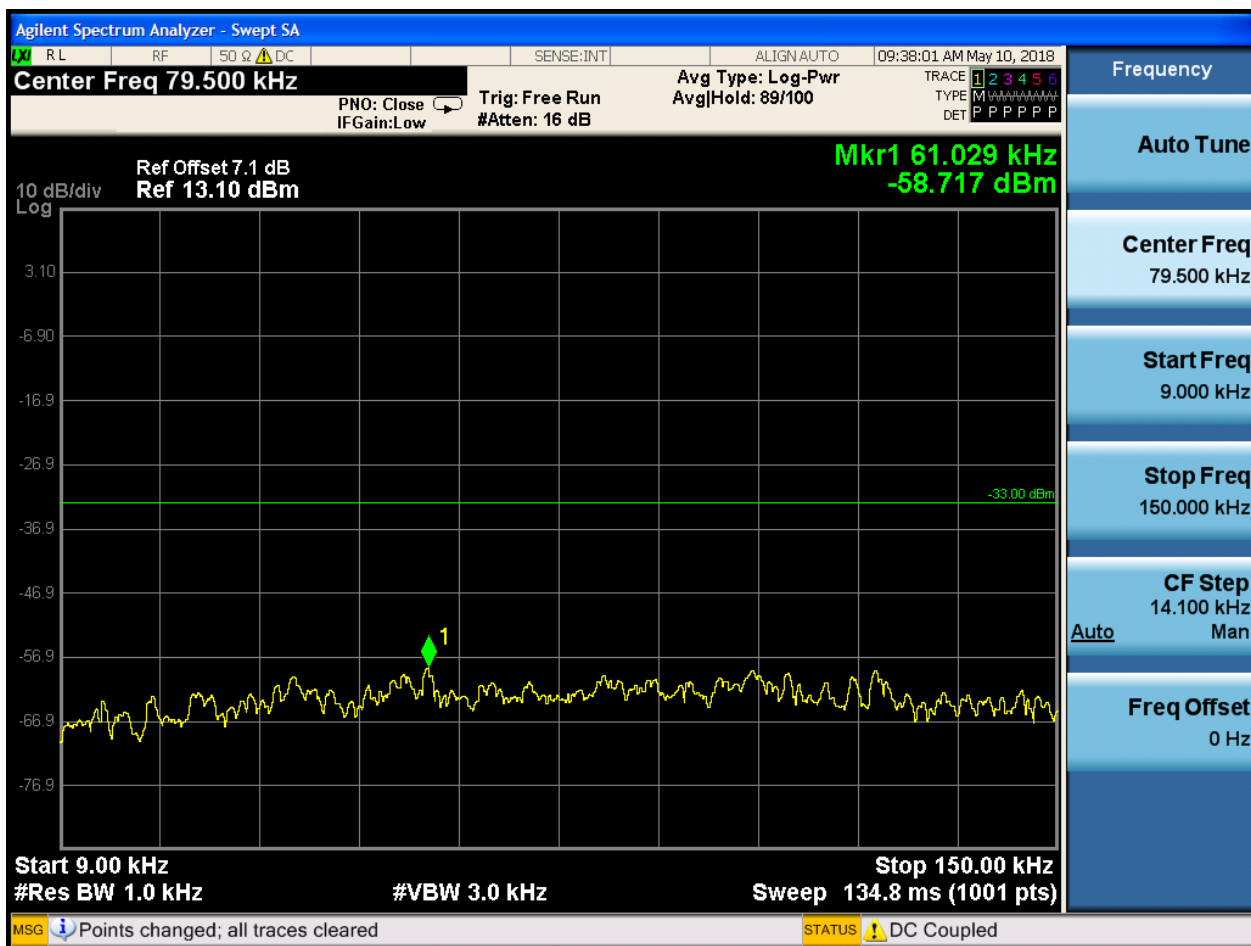


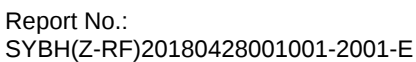
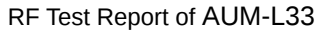


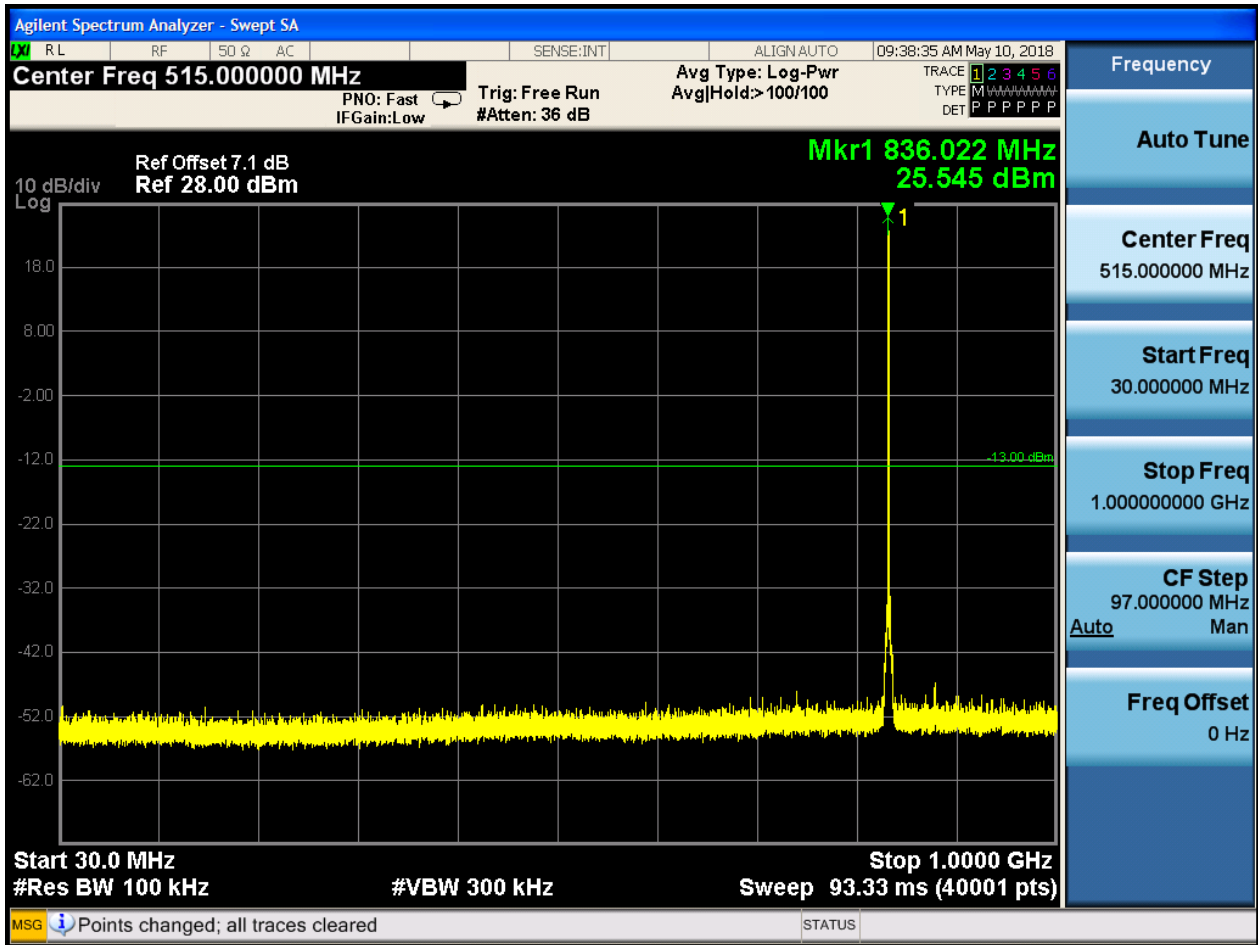


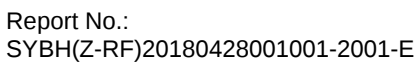
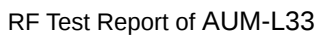
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



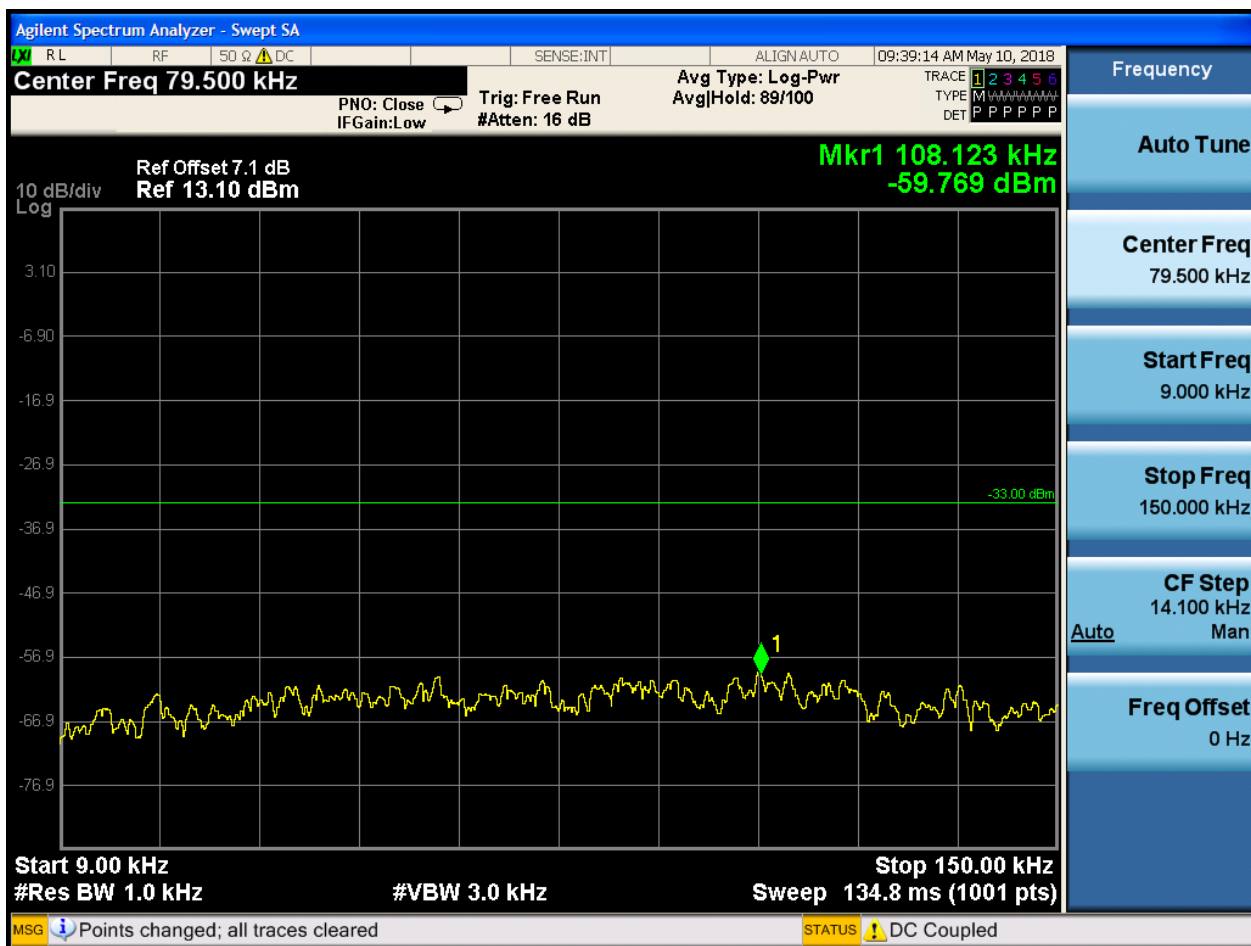


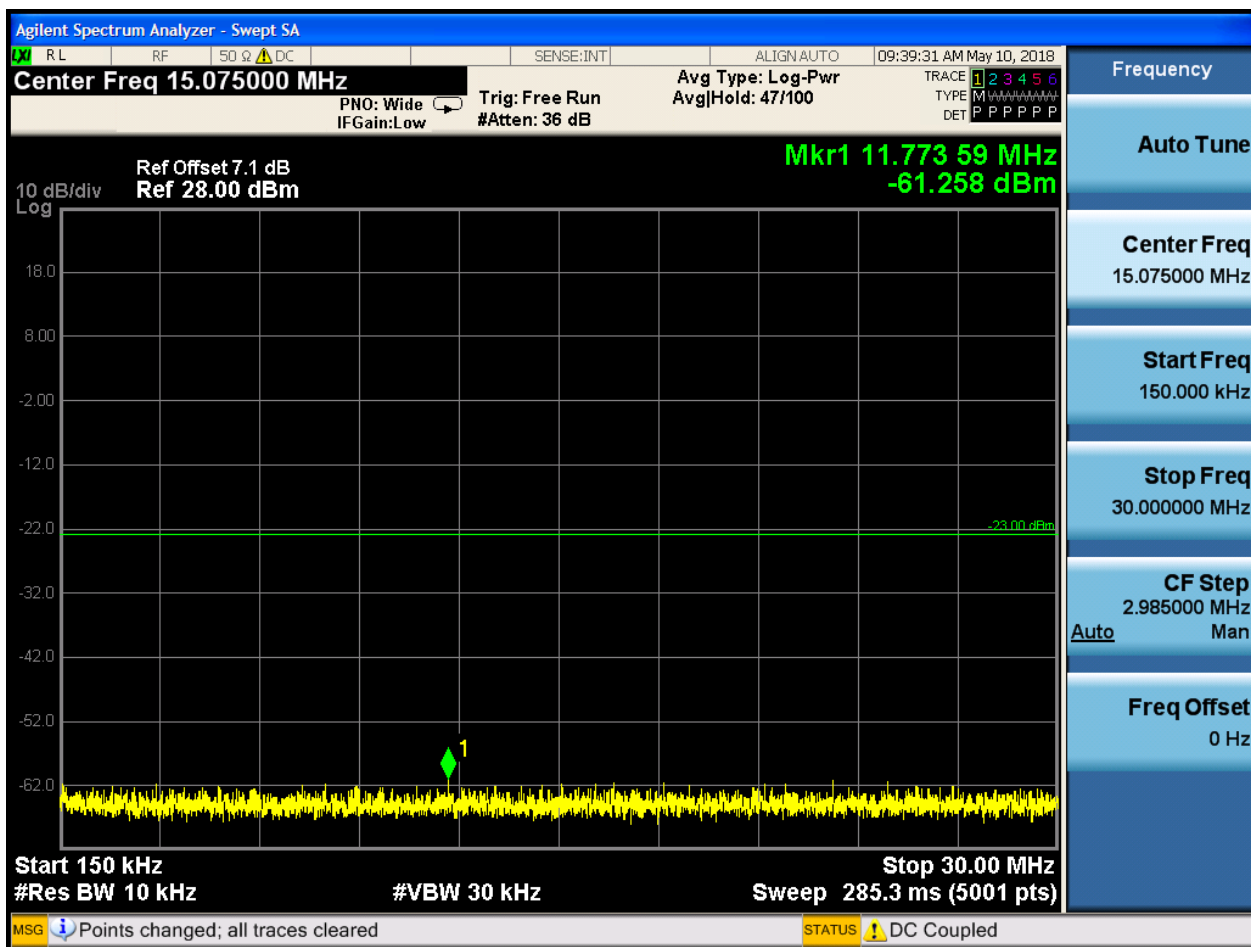


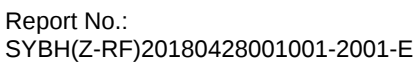
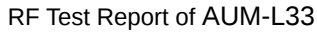


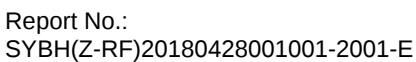
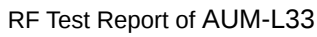
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





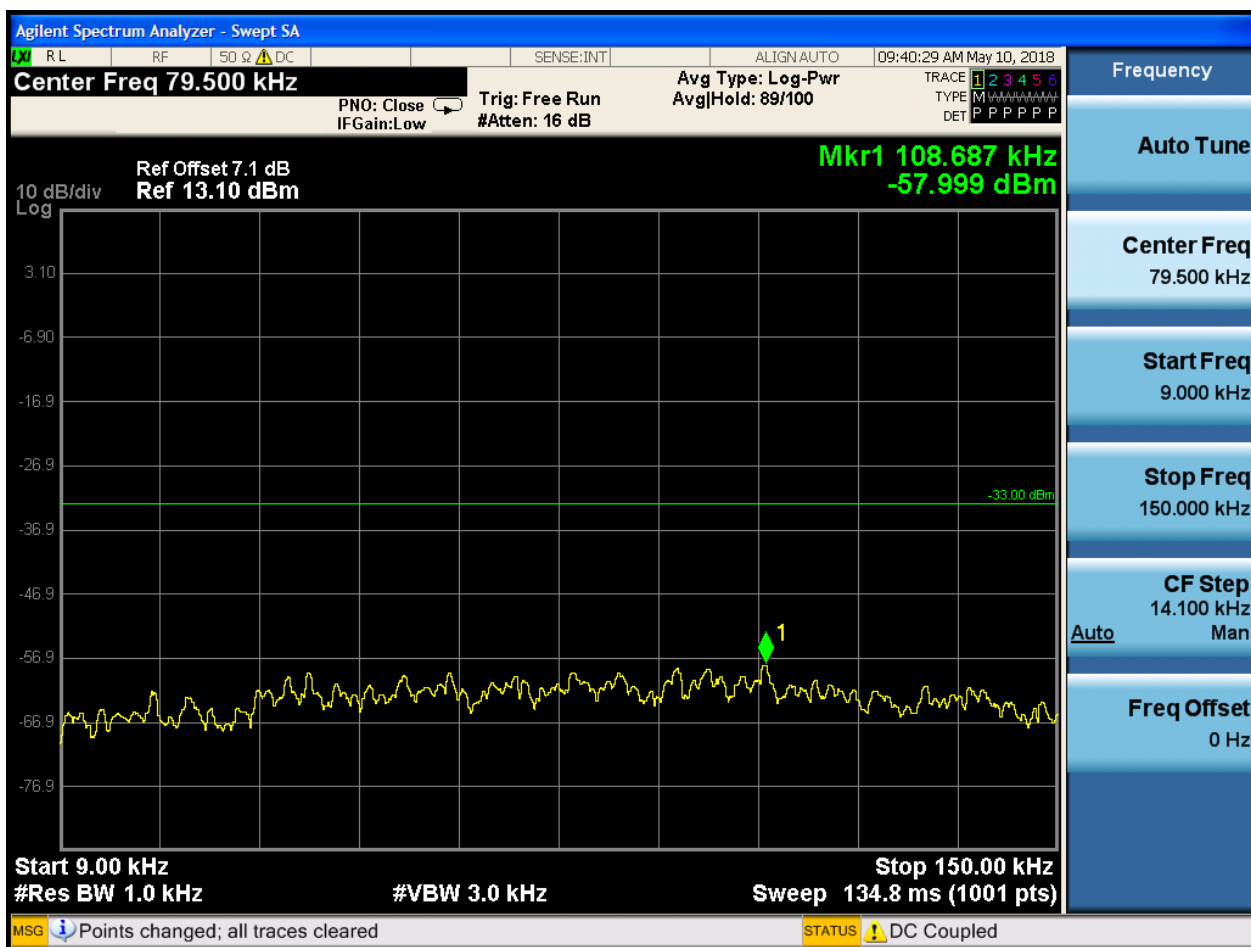


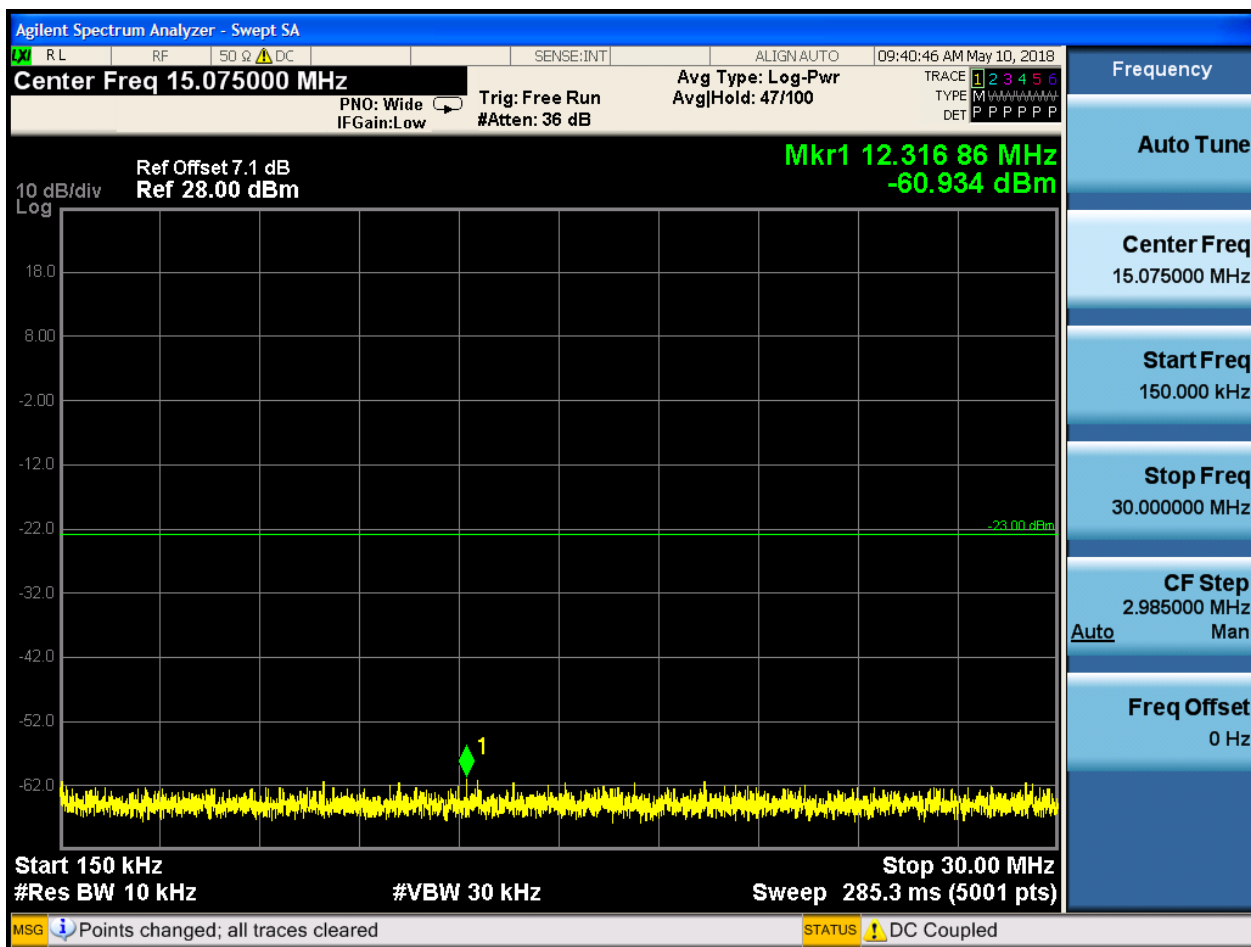


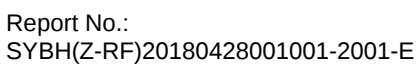
6.1.1.1.2 Test Bandwidth = 3

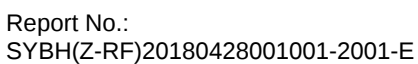
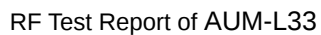
6.1.1.1.2.1 Test Channel = LCH

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

