



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]	EIRP [dBm]	Limit [dBm]	Verdict
BAND2	LTE/TM1	1.4	LCH	RB1#0	21.62	21.09	33	PASS
				RB1#3	21.73	21.37	33	PASS
				RB1#5	21.65	21.12	33	PASS
				RB3#0	21.67	21.27	33	PASS
				RB3#2	21.69	21.22	33	PASS
				RB3#3	21.65	21.34	33	PASS
				RB6#0	20.8	20.32	33	PASS
			MCH	RB1#0	22.18	21.73	33	PASS
				RB1#3	22.18	21.68	33	PASS
				RB1#5	22.1	21.64	33	PASS
				RB3#0	22.2	21.79	33	PASS
				RB3#2	22.16	21.75	33	PASS
				RB3#3	22.1	21.63	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB6#0	21.16	20.79	33	PASS
			HCH	RB1#0	22.09	21.69	33	PASS
				RB1#3	22.08	21.59	33	PASS
				RB1#5	22	21.47	33	PASS
				RB3#0	22.09	21.71	33	PASS
				RB3#2	22.03	21.69	33	PASS
				RB3#3	21.96	21.66	33	PASS
				RB6#0	21.08	20.79	33	PASS
		3	LCH	RB1#0	21.45	21.17	33	PASS
				RB1#7	21.81	21.48	33	PASS
				RB1#14	21.62	21.11	33	PASS
				RB8#0	20.81	20.56	33	PASS
				RB8#4	20.89	20.62	33	PASS
				RB8#7	20.86	20.61	33	PASS
				RB15#0	20.85	20.59	33	PASS
			MCH	RB1#0	22.06	21.59	33	PASS
				RB1#7	22.26	21.76	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#14	21.94	21.45	33	PASS
				RB8#0	21.16	20.76	33	PASS
				RB8#4	21.14	20.77	33	PASS
				RB8#7	21.06	20.62	33	PASS
				RB15#0	21.13	20.85	33	PASS
			HCH	RB1#0	22.03	21.66	33	PASS
				RB1#7	22.17	21.69	33	PASS
				RB1#14	21.84	21.30	33	PASS
				RB8#0	21.21	20.90	33	PASS
				RB8#4	21.19	20.76	33	PASS
				RB8#7	21.03	20.51	33	PASS
				RB15#0	21.18	20.81	33	PASS
		5	LCH	RB1#0	22.21	21.79	33	PASS
				RB1#13	22.67	22.27	33	PASS
				RB1#24	22.52	22.23	33	PASS
				RB12#0	21.39	20.87	33	PASS
				RB12#6	21.53	21.26	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#13	21.38	21.13	33	PASS
				RB25#0	21.4	21.05	33	PASS
			MCH	RB1#0	22.54	22.10	33	PASS
				RB1#13	22.75	22.26	33	PASS
				RB1#24	22.53	22.22	33	PASS
				RB12#0	21.7	21.27	33	PASS
				RB12#6	21.78	21.50	33	PASS
				RB12#13	21.57	21.02	33	PASS
				RB25#0	21.67	21.14	33	PASS
			HCH	RB1#0	22.47	22.12	33	PASS
				RB1#13	22.67	22.30	33	PASS
				RB1#24	22.47	22.16	33	PASS
				RB12#0	21.73	21.19	33	PASS
				RB12#6	21.83	21.38	33	PASS
				RB12#13	21.63	21.22	33	PASS
				RB25#0	21.77	21.35	33	PASS
		10	LCH	RB1#0	22.17	21.81	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#25	22.7	22.40	33	PASS
				RB1#49	22.71	22.42	33	PASS
				RB25#0	21.4	21.04	33	PASS
				RB25#13	21.56	21.25	33	PASS
				RB25#25	21.54	20.99	33	PASS
				RB50#0	21.47	21.04	33	PASS
			MCH	RB1#0	22.65	22.40	33	PASS
				RB1#25	22.87	22.51	33	PASS
				RB1#49	22.52	22.05	33	PASS
				RB25#0	21.72	21.35	33	PASS
				RB25#13	21.73	21.35	33	PASS
				RB25#25	21.57	21.20	33	PASS
				RB50#0	21.65	21.38	33	PASS
			HCH	RB1#0	22.59	22.19	33	PASS
				RB1#25	22.69	22.33	33	PASS
				RB1#49	22.54	22.27	33	PASS
				RB25#0	21.82	21.33	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.7	21.25	33	PASS
				RB25#25	21.68	21.28	33	PASS
				RB50#0	21.77	21.33	33	PASS
		15	LCH	RB1#0	22.22	21.88	33	PASS
				RB1#38	22.87	22.35	33	PASS
				RB1#74	22.42	21.98	33	PASS
				RB38#0	21.5	20.97	33	PASS
				RB38#19	21.71	21.29	33	PASS
				RB38#39	21.63	21.28	33	PASS
				RB75#0	21.61	21.21	33	PASS
			MCH	RB1#0	22.74	22.42	33	PASS
				RB1#38	22.85	22.53	33	PASS
				RB1#74	22.43	21.96	33	PASS
				RB38#0	21.76	21.31	33	PASS
				RB38#19	21.81	21.45	33	PASS
				RB38#39	21.6	21.06	33	PASS
				RB75#0	21.71	21.23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.78	22.30	33	PASS
				RB1#38	22.84	22.55	33	PASS
				RB1#74	22.43	22.02	33	PASS
				RB38#0	21.72	21.27	33	PASS
				RB38#19	21.92	21.51	33	PASS
				RB38#39	21.59	21.08	33	PASS
				RB75#0	21.86	21.42	33	PASS
		20	LCH	RB1#0	22.03	21.49	33	PASS
				RB1#50	22.67	22.27	33	PASS
				RB1#99	22.49	22.17	33	PASS
				RB50#0	21.37	20.95	33	PASS
				RB50#25	21.63	21.29	33	PASS
				RB50#50	21.48	21.02	33	PASS
				RB100#0	21.43	21.15	33	PASS
			MCH	RB1#0	22.56	22.05	33	PASS
				RB1#50	22.74	22.45	33	PASS
				RB1#99	22.31	22.04	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.62	21.25	33	PASS
				RB50#25	21.62	21.14	33	PASS
				RB50#50	21.35	21.10	33	PASS
				RB100#0	21.49	21.17	33	PASS
			HCH	RB1#0	22.44	22.16	33	PASS
				RB1#50	22.79	22.41	33	PASS
				RB1#99	22.28	21.87	33	PASS
				RB50#0	21.59	21.27	33	PASS
				RB50#25	21.78	21.29	33	PASS
				RB50#50	21.57	21.11	33	PASS
				RB100#0	21.71	21.19	33	PASS
	LTE/TM2	1.4	LCH	RB1#0	20.88	20.36	33	PASS
				RB1#3	20.68	20.25	33	PASS
				RB1#5	20.94	20.52	33	PASS
				RB3#0	20.92	20.42	33	PASS
				RB3#2	20.95	20.62	33	PASS
				RB3#3	20.92	20.66	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB6#0	20.82	20.51	33	PASS
			MCH	RB1#0	21.34	20.85	33	PASS
				RB1#3	21.36	20.94	33	PASS
				RB1#5	21.24	20.97	33	PASS
				RB3#0	21.23	20.74	33	PASS
				RB3#2	21.2	20.68	33	PASS
				RB3#3	21.17	20.83	33	PASS
				RB6#0	21.21	20.90	33	PASS
			HCH	RB1#0	21.34	20.84	33	PASS
				RB1#3	21.37	20.90	33	PASS
				RB1#5	21.21	20.89	33	PASS
				RB3#0	21.15	20.65	33	PASS
				RB3#2	21.04	20.73	33	PASS
				RB3#3	20.97	20.58	33	PASS
				RB6#0	21.03	20.63	33	PASS
		3	LCH	RB1#0	20.79	20.54	33	PASS
				RB1#7	20.74	20.22	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#14	20.89	20.49	33	PASS
				RB8#0	20.8	20.30	33	PASS
				RB8#4	20.87	20.58	33	PASS
				RB8#7	20.82	20.32	33	PASS
				RB15#0	20.73	20.37	33	PASS
			MCH	RB1#0	21.15	20.84	33	PASS
				RB1#7	21.22	20.68	33	PASS
				RB1#14	20.94	20.41	33	PASS
				RB8#0	21.18	20.78	33	PASS
				RB8#4	21.16	20.74	33	PASS
				RB8#7	21.08	20.64	33	PASS
				RB15#0	21.16	20.79	33	PASS
			HCH	RB1#0	21.52	21.25	33	PASS
				RB1#7	21.63	21.17	33	PASS
				RB1#14	21.25	20.88	33	PASS
				RB8#0	21.17	20.91	33	PASS
				RB8#4	21.13	20.73	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB8#7	21.02	20.69	33	PASS
				RB15#0	21.17	20.76	33	PASS
		5	LCH	RB1#0	21.1	20.66	33	PASS
				RB1#13	21.54	21.22	33	PASS
				RB1#24	21.48	21.16	33	PASS
				RB12#0	21.37	21.05	33	PASS
				RB12#6	21.51	21.19	33	PASS
				RB12#13	21.36	20.87	33	PASS
				RB25#0	21.37	21.01	33	PASS
			MCH	RB1#0	21.76	21.44	33	PASS
				RB1#13	21.98	21.73	33	PASS
				RB1#24	21.8	21.44	33	PASS
				RB12#0	21.64	21.10	33	PASS
				RB12#6	21.75	21.21	33	PASS
				RB12#13	21.53	21.02	33	PASS
				RB25#0	21.62	21.20	33	PASS
			HCH	RB1#0	21.85	21.59	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	22.15	21.60	33	PASS
				RB1#24	21.9	21.44	33	PASS
				RB12#0	21.65	21.38	33	PASS
				RB12#6	21.71	21.37	33	PASS
				RB12#13	21.55	21.27	33	PASS
				RB25#0	21.6	21.18	33	PASS
		10	LCH	RB1#0	21.18	20.93	33	PASS
				RB1#25	21.72	21.18	33	PASS
				RB1#49	21.61	21.27	33	PASS
				RB25#0	21.35	21.10	33	PASS
				RB25#13	21.48	20.95	33	PASS
				RB25#25	21.47	21.12	33	PASS
				RB50#0	21.35	20.80	33	PASS
			MCH	RB1#0	21.85	21.38	33	PASS
				RB1#25	22.04	21.50	33	PASS
				RB1#49	21.63	21.31	33	PASS
				RB25#0	21.65	21.22	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.7	21.29	33	PASS
				RB25#25	21.55	21.03	33	PASS
				RB50#0	21.63	21.29	33	PASS
			HCH	RB1#0	21.88	21.46	33	PASS
				RB1#25	22.01	21.68	33	PASS
				RB1#49	21.91	21.60	33	PASS
				RB25#0	21.72	21.24	33	PASS
				RB25#13	21.63	21.38	33	PASS
				RB25#25	21.63	21.35	33	PASS
				RB50#0	21.7	21.35	33	PASS
		15	LCH	RB1#0	21.34	21.01	33	PASS
				RB1#38	21.84	21.56	33	PASS
				RB1#74	21.57	21.32	33	PASS
				RB38#0	21.36	21.00	33	PASS
				RB38#19	21.56	21.28	33	PASS
				RB38#39	21.48	20.98	33	PASS
				RB75#0	21.45	21.15	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.94	21.42	33	PASS
				RB1#38	22.11	21.61	33	PASS
				RB1#74	21.65	21.29	33	PASS
				RB38#0	21.7	21.15	33	PASS
				RB38#19	21.74	21.33	33	PASS
				RB38#39	21.54	21.13	33	PASS
				RB75#0	21.63	21.15	33	PASS
			HCH	RB1#0	22.06	21.76	33	PASS
				RB1#38	22.16	21.91	33	PASS
				RB1#74	21.65	21.20	33	PASS
				RB38#0	21.65	21.14	33	PASS
				RB38#19	21.72	21.42	33	PASS
				RB38#39	21.51	21.24	33	PASS
				RB75#0	21.78	21.46	33	PASS
		20	LCH	RB1#0	21.22	20.70	33	PASS
				RB1#50	21.88	21.35	33	PASS
				RB1#99	21.63	21.35	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.27	20.88	33	PASS
				RB50#25	21.51	21.10	33	PASS
				RB50#50	21.37	21.02	33	PASS
				RB100#0	21.29	20.81	33	PASS
			MCH	RB1#0	21.79	21.52	33	PASS
				RB1#50	22.06	21.76	33	PASS
				RB1#99	21.7	21.16	33	PASS
				RB50#0	21.57	21.02	33	PASS
				RB50#25	21.58	21.11	33	PASS
				RB50#50	21.31	20.98	33	PASS
				RB100#0	21.44	21.05	33	PASS
			HCH	RB1#0	21.68	21.17	33	PASS
				RB1#50	22.05	21.72	33	PASS
				RB1#99	21.49	20.96	33	PASS
				RB50#0	21.52	21.12	33	PASS
				RB50#25	21.71	21.45	33	PASS
				RB50#50	21.5	21.00	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	21.64	21.27	33	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:

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

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

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

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

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
BAND2	LTE/TM1	1.4	LCH	RB1#0	4.39	13	PASS
				RB1#3	4.67	13	PASS
				RB1#5	4.31	13	PASS
				RB3#0	4.85	13	PASS
				RB3#2	5.03	13	PASS
				RB3#3	4.99	13	PASS
				RB6#0	5.69	13	PASS
			MCH	RB1#0	4.5	13	PASS
				RB1#3	4.39	13	PASS
				RB1#5	4.51	13	PASS
				RB3#0	4.9	13	PASS
				RB3#2	4.86	13	PASS
				RB3#3	4.92	13	PASS
				RB6#0	5.68	13	PASS
			HCH	RB1#0	4.08	13	PASS
				RB1#3	4.04	13	PASS
				RB1#5	4.04	13	PASS
				RB3#0	4.37	13	PASS
				RB3#2	4.29	13	PASS
				RB3#3	4.43	13	PASS
				RB6#0	5.37	13	PASS
		3	LCH	RB1#0	4.76	13	PASS
				RB1#7	4.01	13	PASS
				RB1#14	4.66	13	PASS
				RB8#0	5.41	13	PASS
				RB8#4	5.43	13	PASS
				RB8#7	5.43	13	PASS
				RB15#0	5.98	13	PASS
			MCH	RB1#0	4.57	13	PASS
				RB1#7	4.42	13	PASS
				RB1#14	4.73	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	5.51	13	PASS
				RB8#4	5.5	13	PASS
				RB8#7	5.54	13	PASS
				RB15#0	5.78	13	PASS
			HCH	RB1#0	4.24	13	PASS
				RB1#7	3.97	13	PASS
				RB1#14	4.42	13	PASS
				RB8#0	5.24	13	PASS
				RB8#4	5.18	13	PASS
				RB8#7	5.33	13	PASS
				RB15#0	5.41	13	PASS
		5	LCH	RB1#0	4.76	13	PASS
				RB1#13	4.5	13	PASS
				RB1#24	4.51	13	PASS
				RB12#0	5.47	13	PASS
				RB12#6	5.32	13	PASS
				RB12#13	5.4	13	PASS
				RB25#0	5.68	13	PASS
			MCH	RB1#0	4.33	13	PASS
				RB1#13	4.29	13	PASS
				RB1#24	4.5	13	PASS
				RB12#0	5.39	13	PASS
				RB12#6	5.32	13	PASS
				RB12#13	5.5	13	PASS
				RB25#0	5.68	13	PASS
			HCH	RB1#0	4.03	13	PASS
				RB1#13	3.73	13	PASS
				RB1#24	3.82	13	PASS
				RB12#0	5.07	13	PASS
				RB12#6	4.85	13	PASS
				RB12#13	5.04	13	PASS
				RB25#0	5.36	13	PASS
		10	LCH	RB1#0	4.64	13	PASS
				RB1#25	4.16	13	PASS
				RB1#49	4.04	13	PASS
				RB25#0	5.44	13	PASS
				RB25#13	5.37	13	PASS
				RB25#25	5.37	13	PASS
				RB50#0	5.8	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.03	13	PASS
				RB1#25	3.93	13	PASS
				RB1#49	4.39	13	PASS
				RB25#0	5.43	13	PASS
				RB25#13	5.4	13	PASS
				RB25#25	5.61	13	PASS
				RB50#0	5.95	13	PASS
			HCH	RB1#0	4.03	13	PASS
				RB1#25	3.6	13	PASS
				RB1#49	3.71	13	PASS
				RB25#0	5.02	13	PASS
				RB25#13	5.01	13	PASS
				RB25#25	5.13	13	PASS
				RB50#0	5.57	13	PASS
		15	LCH	RB1#0	4.55	13	PASS
				RB1#38	3.94	13	PASS
				RB1#74	4.17	13	PASS
				RB38#0	5.5	13	PASS
				RB38#19	5.27	13	PASS
				RB38#39	5.26	13	PASS
				RB75#0	5.89	13	PASS
			MCH	RB1#0	4.08	13	PASS
				RB1#38	4.13	13	PASS
				RB1#74	4.68	13	PASS
				RB38#0	5.39	13	PASS
				RB38#19	5.44	13	PASS
				RB38#39	5.72	13	PASS
				RB75#0	6.12	13	PASS
			HCH	RB1#0	4.37	13	PASS
				RB1#38	3.84	13	PASS
				RB1#74	4.13	13	PASS
				RB38#0	5.39	13	PASS
				RB38#19	4.94	13	PASS
				RB38#39	5.3	13	PASS
				RB75#0	5.82	13	PASS
		20	LCH	RB1#0	4.83	13	PASS
				RB1#50	4.06	13	PASS
				RB1#99	4.18	13	PASS
				RB50#0	5.63	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2	1.4		RB50#25	5.27	13	PASS
				RB50#50	5.37	13	PASS
				RB100#0	5.82	13	PASS
			MCH	RB1#0	4.13	13	PASS
				RB1#50	4.23	13	PASS
				RB1#99	4.96	13	PASS
				RB50#0	5.39	13	PASS
				RB50#25	5.58	13	PASS
				RB50#50	5.8	13	PASS
				RB100#0	6.09	13	PASS
			HCH	RB1#0	4.72	13	PASS
				RB1#50	3.92	13	PASS
				RB1#99	4.3	13	PASS
				RB50#0	5.61	13	PASS
				RB50#25	5.24	13	PASS
				RB50#50	5.4	13	PASS
				RB100#0	5.84	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.54	13	PASS
				RB1#3	5.76	13	PASS
				RB1#5	5.49	13	PASS
				RB3#0	5.59	13	PASS
				RB3#2	5.67	13	PASS
				RB3#3	5.59	13	PASS
				RB6#0	6.17	13	PASS
			MCH	RB1#0	5.25	13	PASS
				RB1#3	5.33	13	PASS
				RB1#5	5.27	13	PASS
				RB3#0	5.54	13	PASS
				RB3#2	5.62	13	PASS
				RB3#3	5.53	13	PASS
				RB6#0	6.06	13	PASS
		3	LCH	RB1#0	4.7	13	PASS
				RB1#3	4.92	13	PASS
				RB1#5	4.9	13	PASS
				RB3#0	5.41	13	PASS
				RB3#2	5.39	13	PASS
				RB3#3	5.45	13	PASS
				RB6#0	5.91	13	PASS
				RB1#0	5.73	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#7	5.21	13	PASS
				RB1#14	5.65	13	PASS
				RB8#0	5.93	13	PASS
				RB8#4	5.97	13	PASS
				RB8#7	5.9	13	PASS
				RB15#0	6.1	13	PASS
			MCH	RB1#0	5.63	13	PASS
				RB1#7	5.56	13	PASS
				RB1#14	5.68	13	PASS
				RB8#0	5.74	13	PASS
				RB8#4	5.77	13	PASS
				RB8#7	5.83	13	PASS
				RB15#0	6.4	13	PASS
			HCH	RB1#0	4.8	13	PASS
				RB1#7	4.61	13	PASS
				RB1#14	4.8	13	PASS
				RB8#0	5.48	13	PASS
				RB8#4	5.35	13	PASS
				RB8#7	5.61	13	PASS
				RB15#0	5.97	13	PASS
		5	LCH	RB1#0	5.46	13	PASS
				RB1#13	5.37	13	PASS
				RB1#24	5.15	13	PASS
				RB12#0	5.77	13	PASS
				RB12#6	5.65	13	PASS
				RB12#13	5.92	13	PASS
				RB25#0	6.2	13	PASS
			MCH	RB1#0	5.06	13	PASS
				RB1#13	5.1	13	PASS
				RB1#24	5.16	13	PASS
				RB12#0	5.49	13	PASS
				RB12#6	5.41	13	PASS
				RB12#13	5.66	13	PASS
				RB25#0	6.08	13	PASS
			HCH	RB1#0	4.6	13	PASS
				RB1#13	4.41	13	PASS
				RB1#24	4.5	13	PASS
				RB12#0	5.3	13	PASS
				RB12#6	4.95	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB12#13	5.25	13	PASS
				RB25#0	5.84	13	PASS
		10	LCH	RB1#0	5.43	13	PASS
				RB1#25	5.01	13	PASS
				RB1#49	4.9	13	PASS
				RB25#0	5.96	13	PASS
				RB25#13	5.79	13	PASS
				RB25#25	5.81	13	PASS
				RB50#0	6.33	13	PASS
			MCH	RB1#0	4.92	13	PASS
				RB1#25	4.95	13	PASS
				RB1#49	5.32	13	PASS
				RB25#0	5.65	13	PASS
				RB25#13	5.59	13	PASS
				RB25#25	5.83	13	PASS
				RB50#0	6.39	13	PASS
			HCH	RB1#0	4.8	13	PASS
				RB1#25	4.49	13	PASS
				RB1#49	4.51	13	PASS
				RB25#0	5.27	13	PASS
				RB25#13	5.16	13	PASS
				RB25#25	5.27	13	PASS
				RB50#0	5.86	13	PASS
		15	LCH	RB1#0	5.28	13	PASS
				RB1#38	4.78	13	PASS
				RB1#74	4.78	13	PASS
				RB38#0	5.88	13	PASS
				RB38#19	5.58	13	PASS
				RB38#39	5.66	13	PASS
				RB75#0	6.4	13	PASS
			MCH	RB1#0	4.8	13	PASS
				RB1#38	4.89	13	PASS
				RB1#74	5.38	13	PASS
				RB38#0	5.59	13	PASS
				RB38#19	5.56	13	PASS
				RB38#39	5.98	13	PASS
				RB75#0	6.44	13	PASS
			HCH	RB1#0	4.82	13	PASS
				RB1#38	4.35	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#74	4.73	13	PASS
				RB38#0	5.58	13	PASS
				RB38#19	5.11	13	PASS
				RB38#39	5.51	13	PASS
				RB75#0	6.06	13	PASS
		20	LCH	RB1#0	5.5	13	PASS
				RB1#50	4.62	13	PASS
				RB1#99	4.9	13	PASS
				RB50#0	6	13	PASS
				RB50#25	5.57	13	PASS
				RB50#50	5.71	13	PASS
				RB100#0	6.25	13	PASS
			MCH	RB1#0	4.89	13	PASS
				RB1#50	4.97	13	PASS
				RB1#99	5.43	13	PASS
				RB50#0	5.64	13	PASS
				RB50#25	5.74	13	PASS
				RB50#50	6.13	13	PASS
				RB100#0	6.45	13	PASS
			HCH	RB1#0	5.51	13	PASS
				RB1#50	4.74	13	PASS
				RB1#99	4.92	13	PASS
				RB50#0	5.97	13	PASS
				RB50#25	5.45	13	PASS
				RB50#50	5.57	13	PASS
				RB100#0	6.22	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

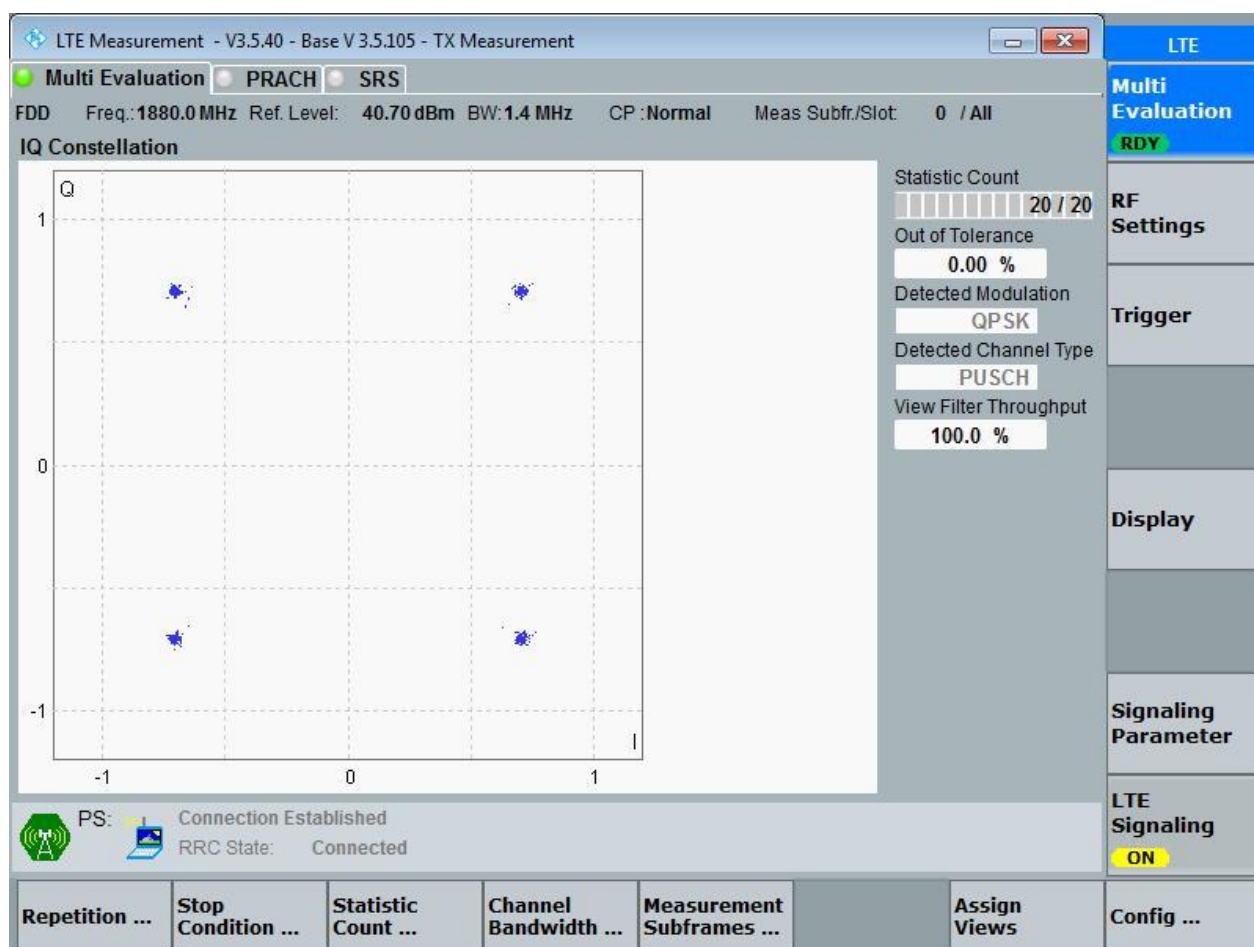
3.1.1 Test Band = BAND2

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

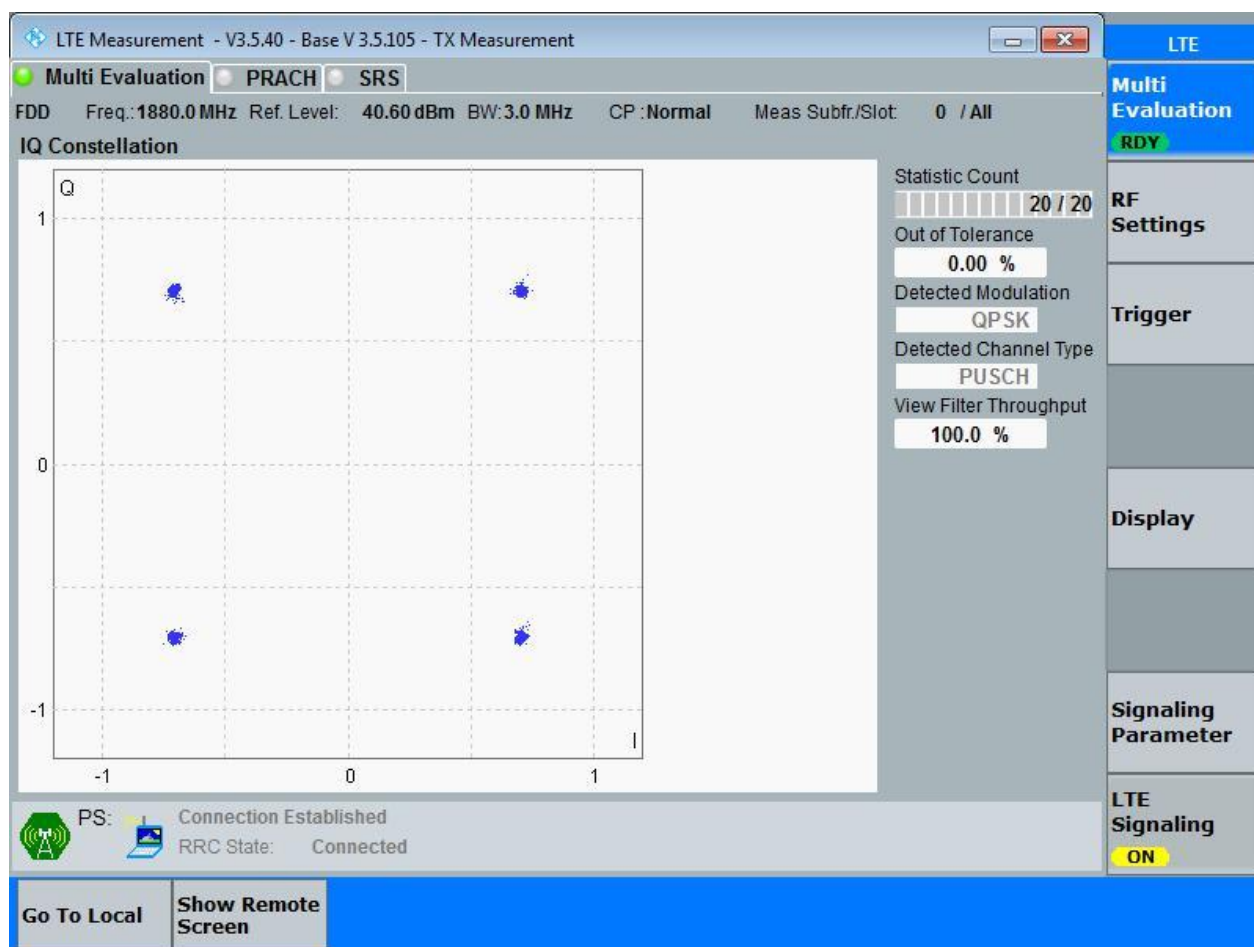
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

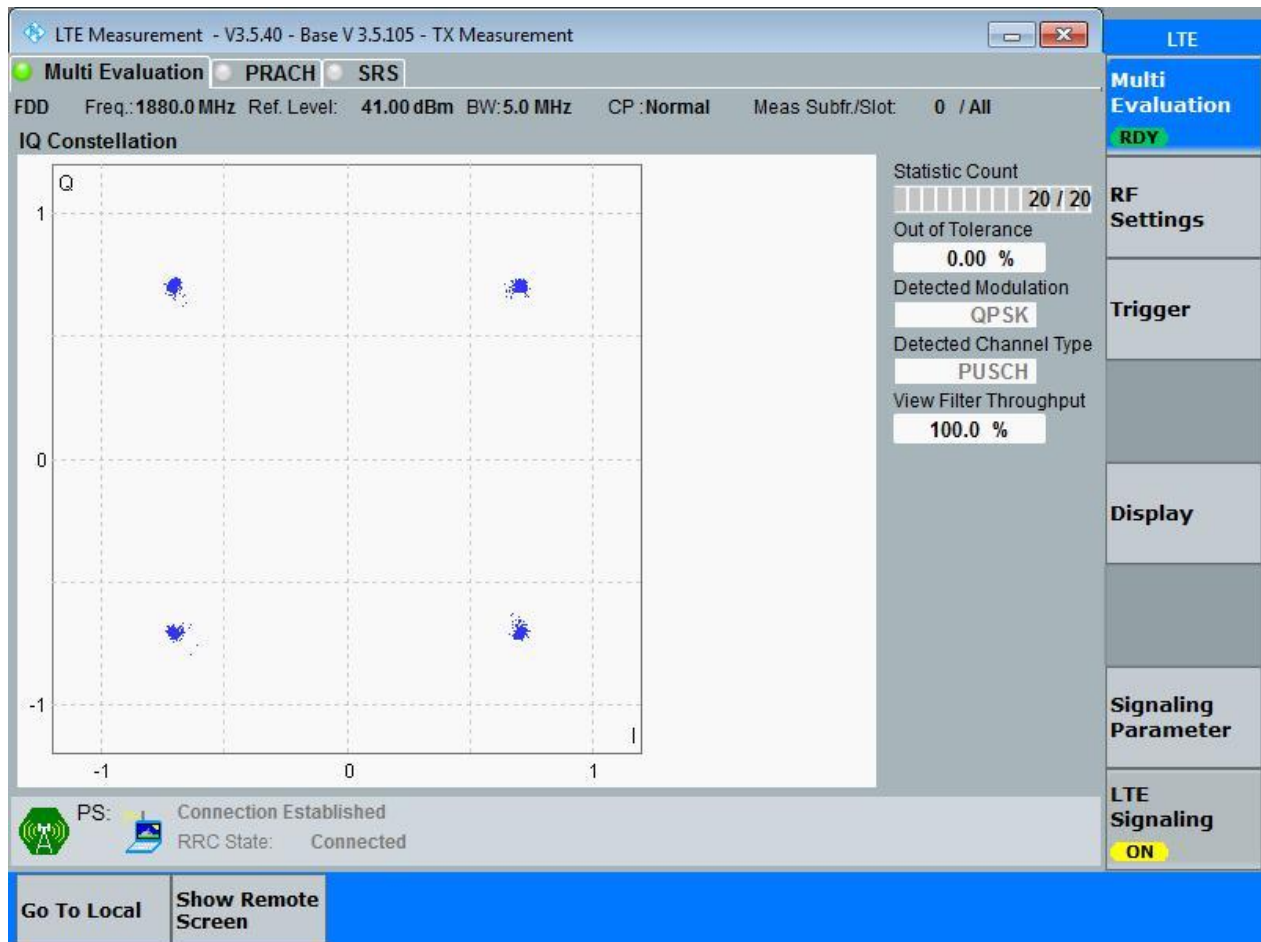
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

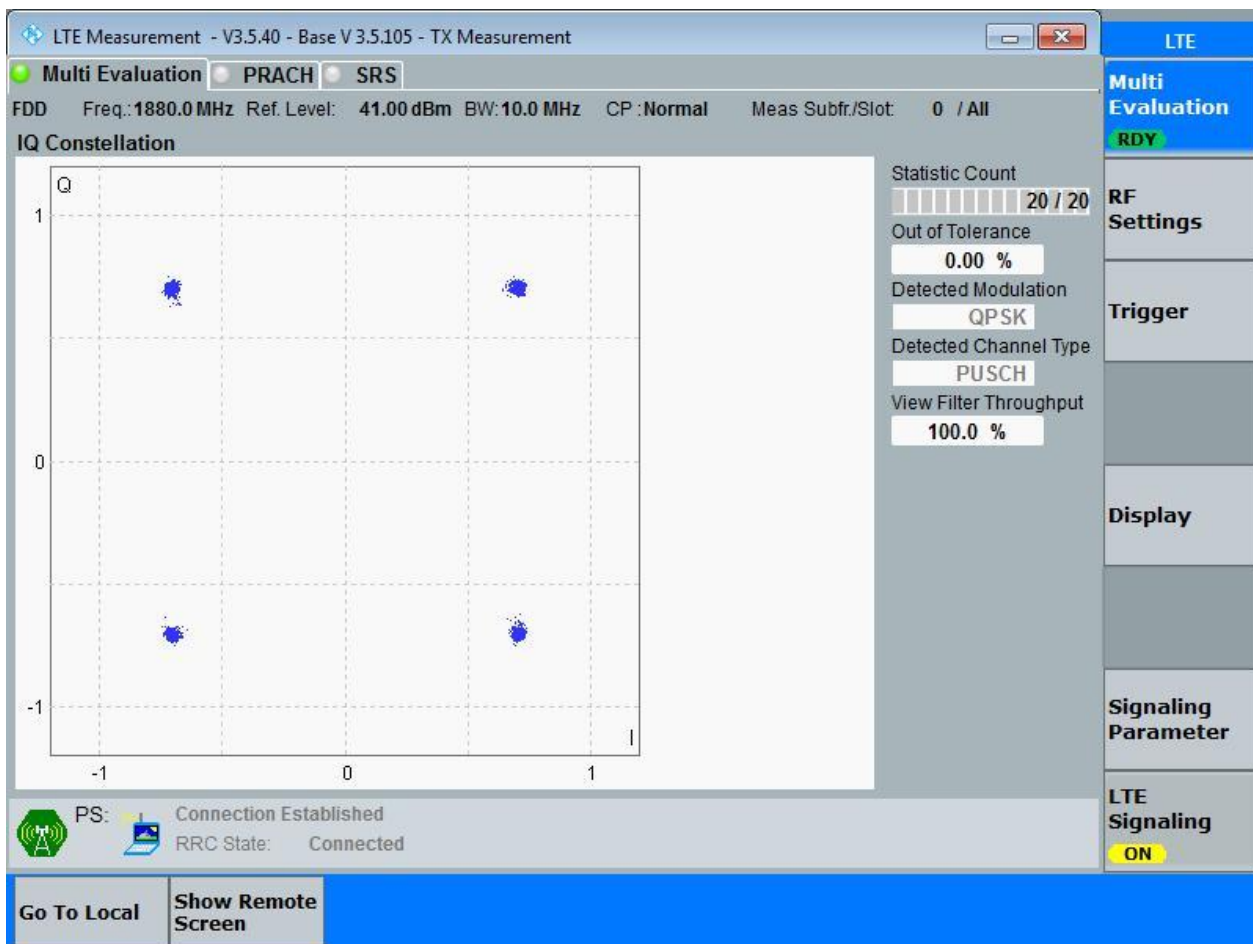
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

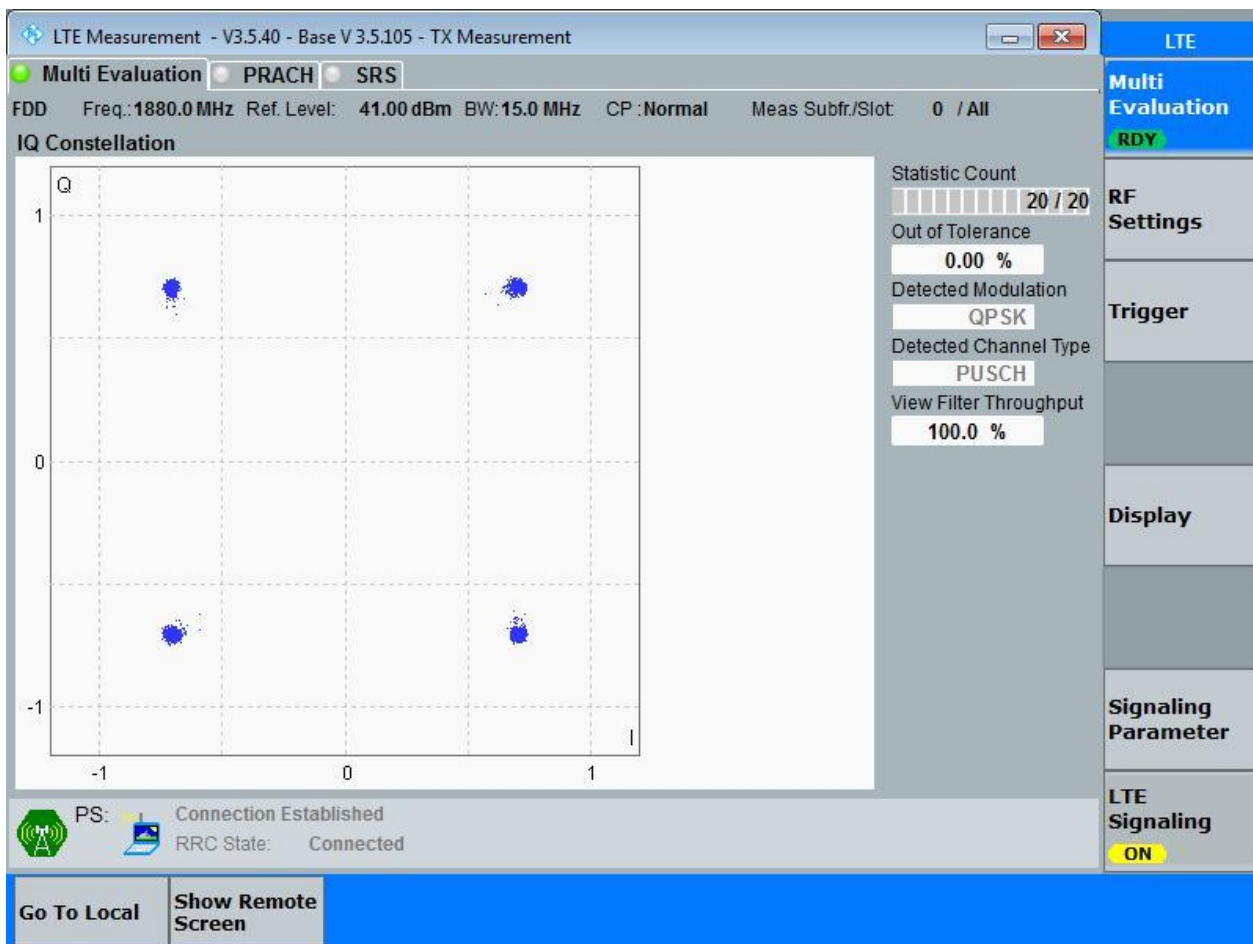
3.1.1.1.4.1.1 Test RB = RB50#0



3.1.1.1.5 Test Bandwidth = 15

3.1.1.1.5.1 Test Channel = MCH

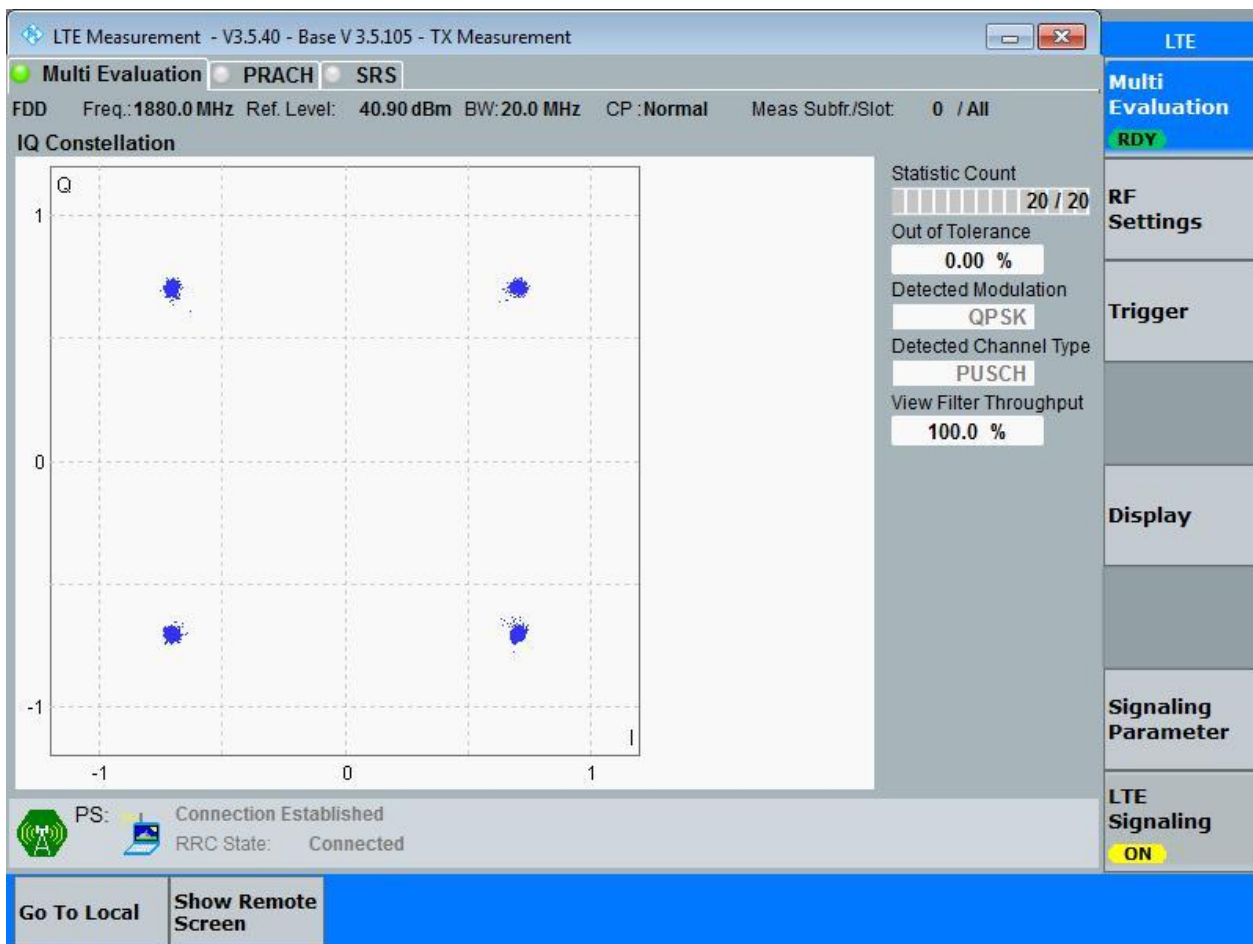
3.1.1.1.5.1.1 Test RB = RB75#0



3.1.1.1.6 Test Bandwidth = 20

3.1.1.1.6.1 Test Channel = MCH

3.1.1.1.6.1.1 Test RB = RB100#0

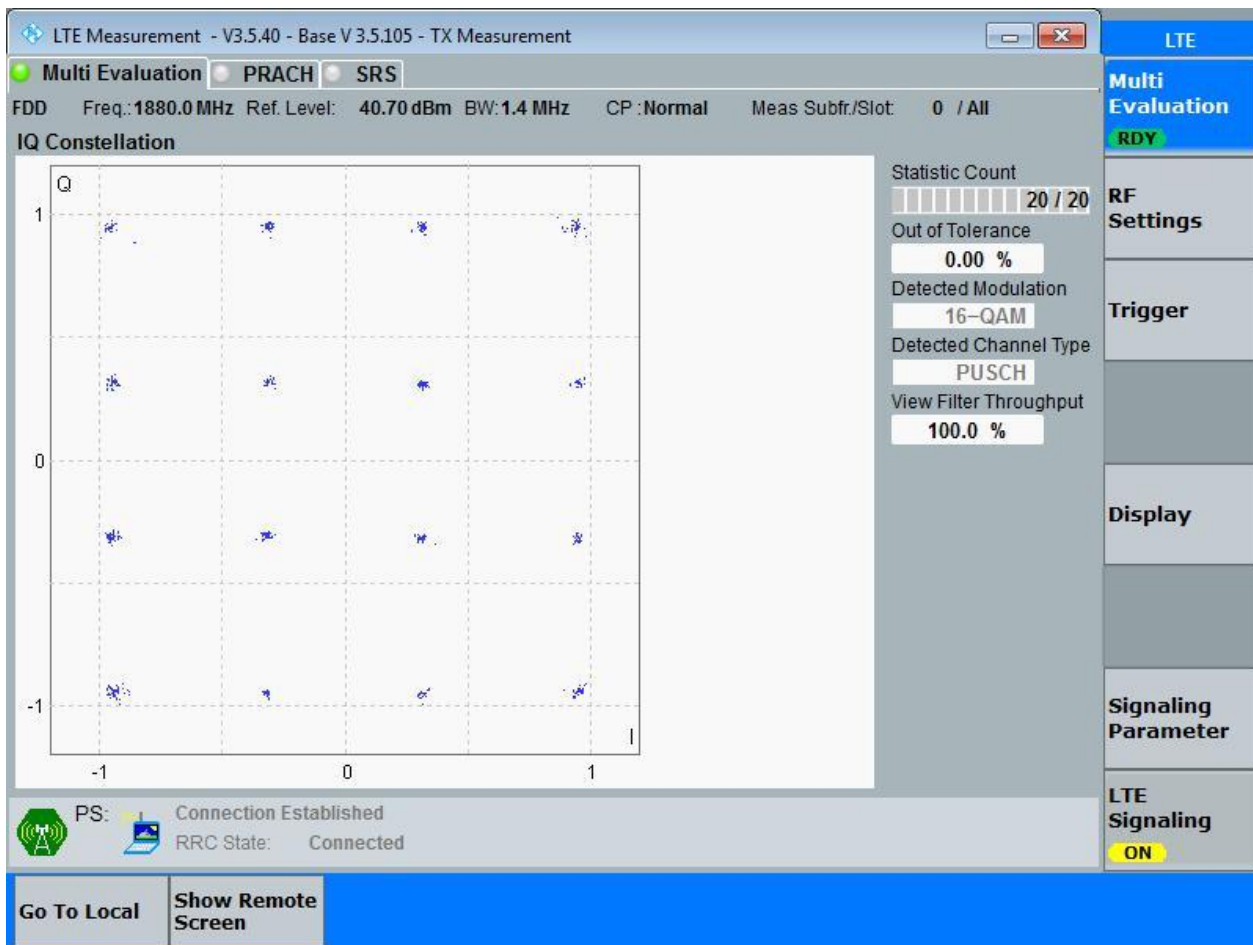


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

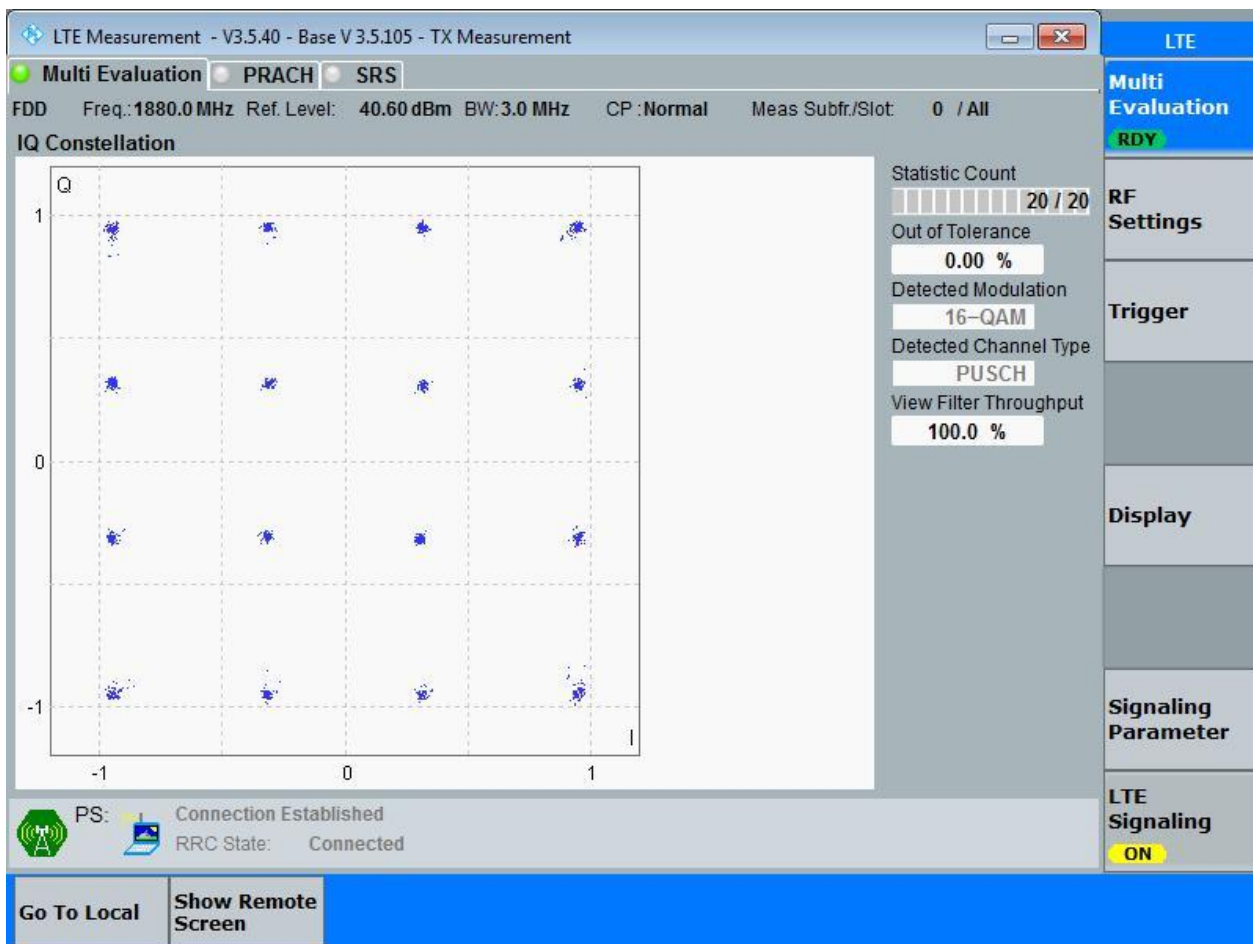
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

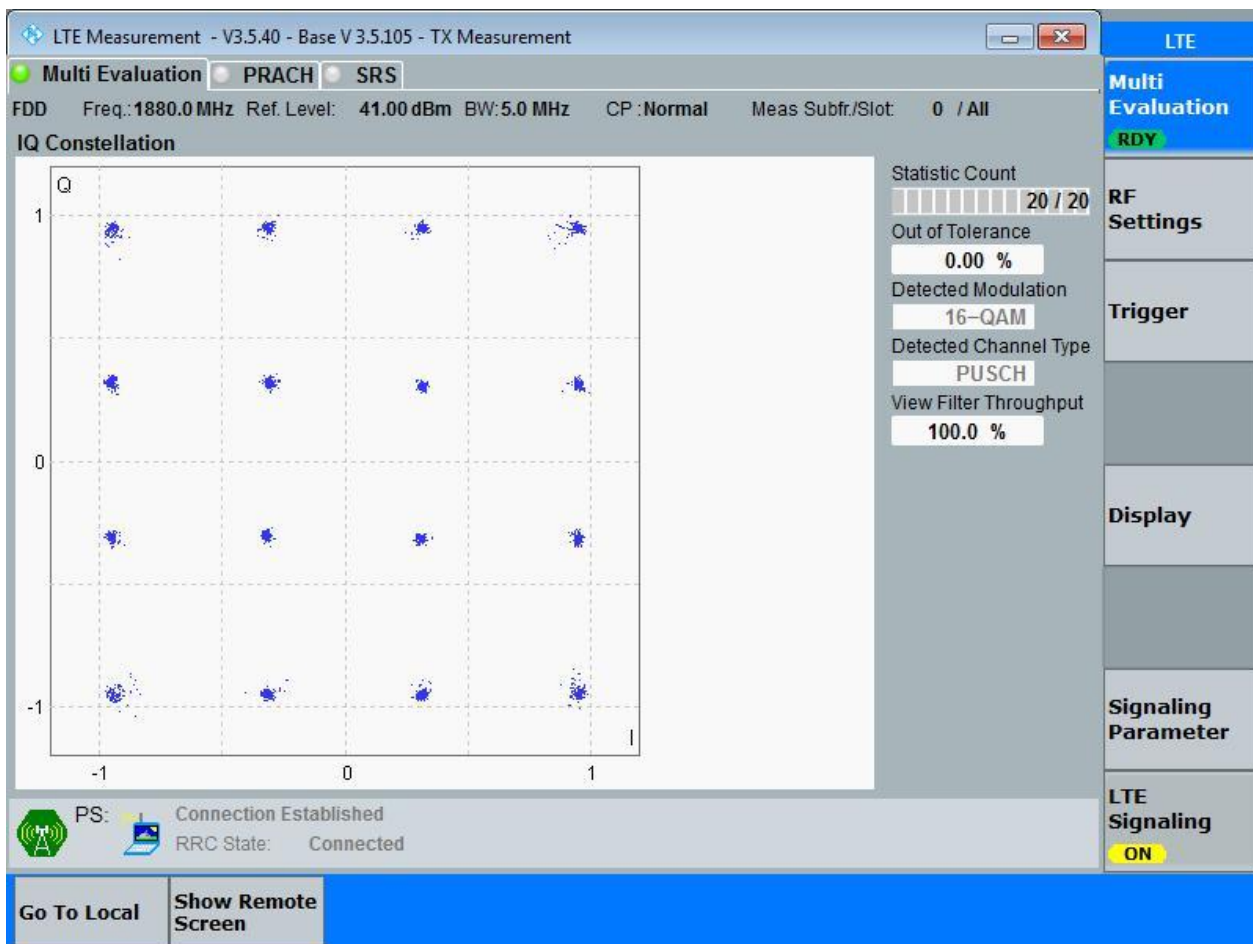
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

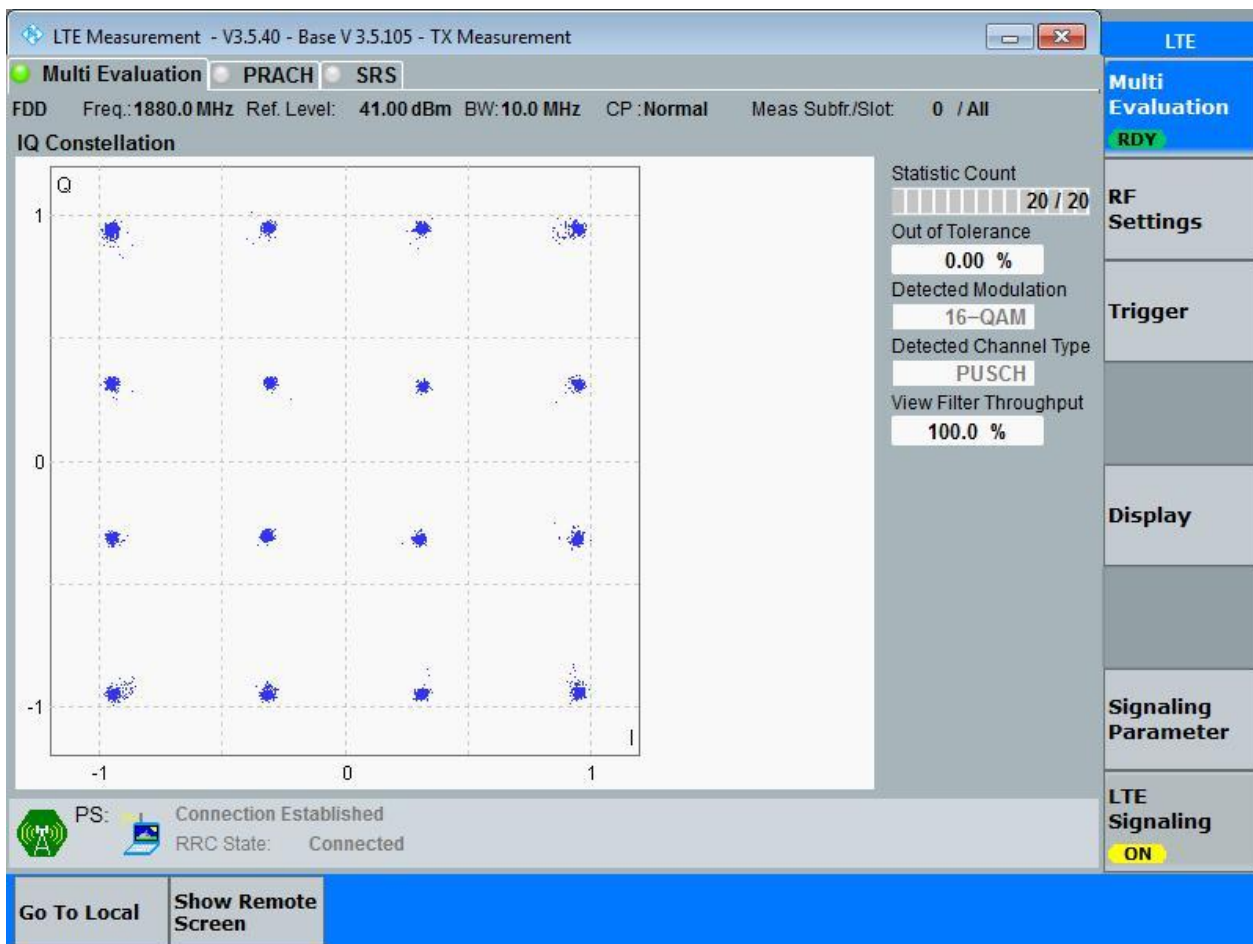
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

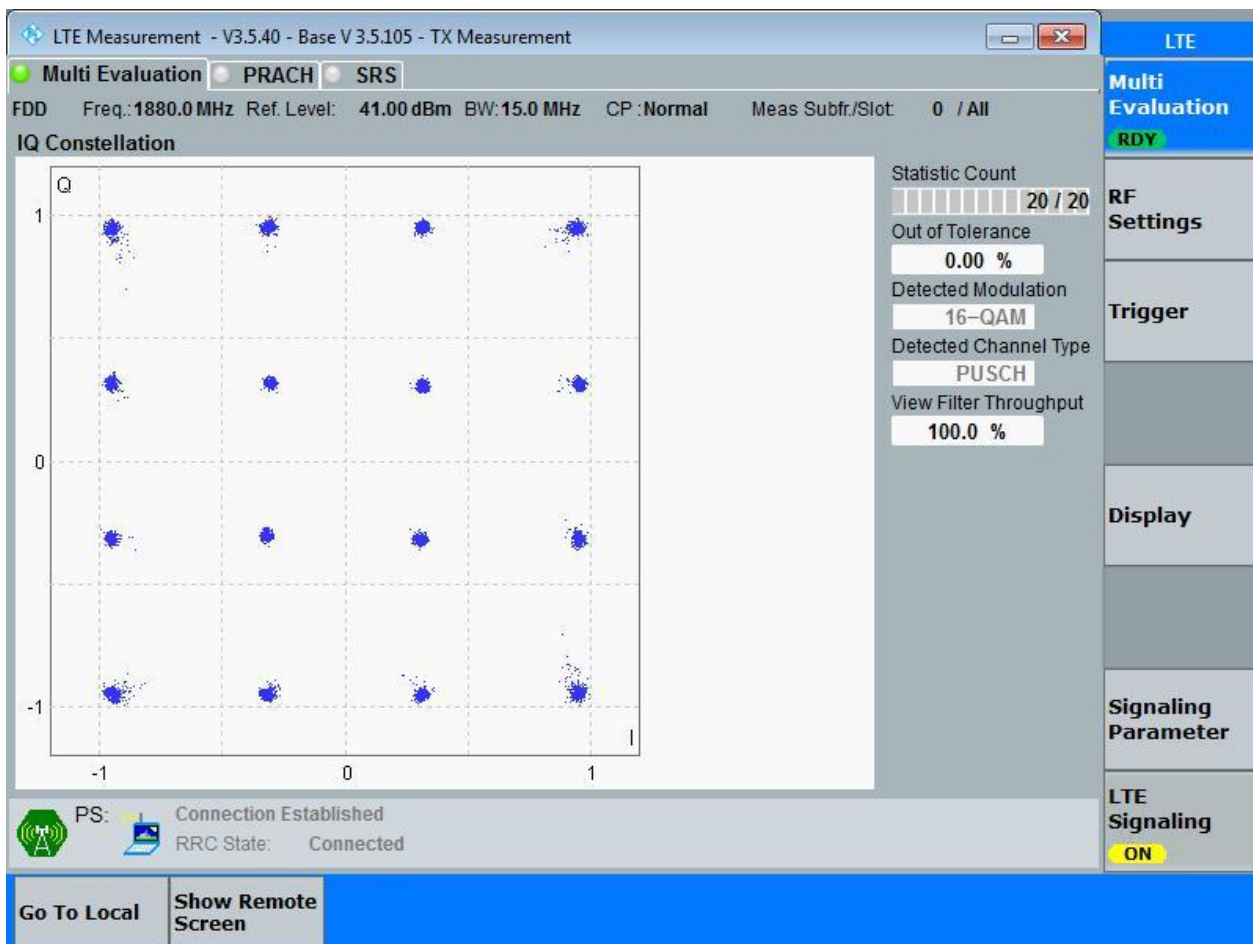
3.1.1.2.4.1.1 Test RB = RB50#0



3.1.1.2.5 Test Bandwidth = 15

3.1.1.2.5.1 Test Channel = MCH

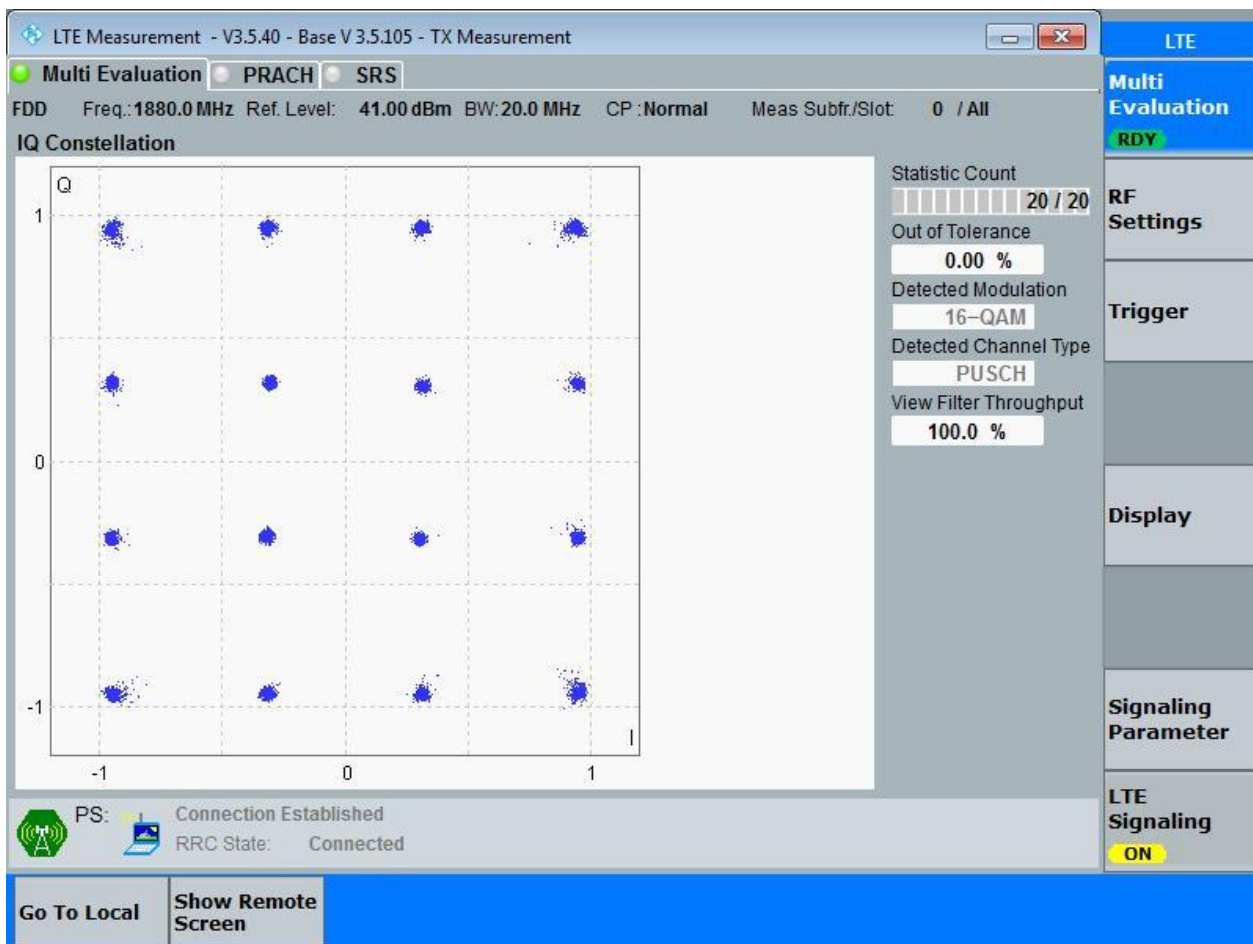
3.1.1.2.5.1.1 Test RB = RB75#0



3.1.1.2.6 Test Bandwidth = 20

3.1.1.2.6.1 Test Channel = MCH

3.1.1.2.6.1.1 Test RB = RB100#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
BAND2	LTE/TM1	1.4	LCH	RB6#0	1.10	1.24	Pass
			MCH	RB6#0	1.09	1.23	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.70	2.97	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.70	2.98	Pass
		5	LCH	RB25#0	4.51	4.97	Pass
			MCH	RB25#0	4.51	4.96	Pass
			HCH	RB25#0	4.51	4.98	Pass
		10	LCH	RB50#0	9.00	9.87	Pass
			MCH	RB50#0	8.99	9.88	Pass
			HCH	RB50#0	8.99	9.91	Pass
		15	LCH	RB75#0	13.48	15.02	Pass
			MCH	RB75#0	13.51	15.10	Pass
			HCH	RB75#0	13.48	14.94	Pass
		20	LCH	RB100#0	17.94	19.79	Pass
			MCH	RB100#0	18.02	19.78	Pass
			HCH	RB100#0	17.94	19.81	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.23	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.10	1.25	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.72	2.98	Pass
		5	LCH	RB25#0	4.51	4.98	Pass
			MCH	RB25#0	4.51	4.97	Pass
			HCH	RB25#0	4.51	4.96	Pass
		10	LCH	RB50#0	9.02	9.90	Pass

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
			MCH	RB50#0	9.01	9.91	Pass
			HCH	RB50#0	9.00	9.95	Pass
		15	LCH	RB75#0	13.49	14.96	Pass
			MCH	RB75#0	13.51	15.01	Pass
			HCH	RB75#0	13.49	14.95	Pass
		20	LCH	RB100#0	17.95	19.70	Pass
			MCH	RB100#0	18.04	19.88	Pass
			HCH	RB100#0	18.00	19.77	Pass



Part II - Test Plots

4.1 For LTE

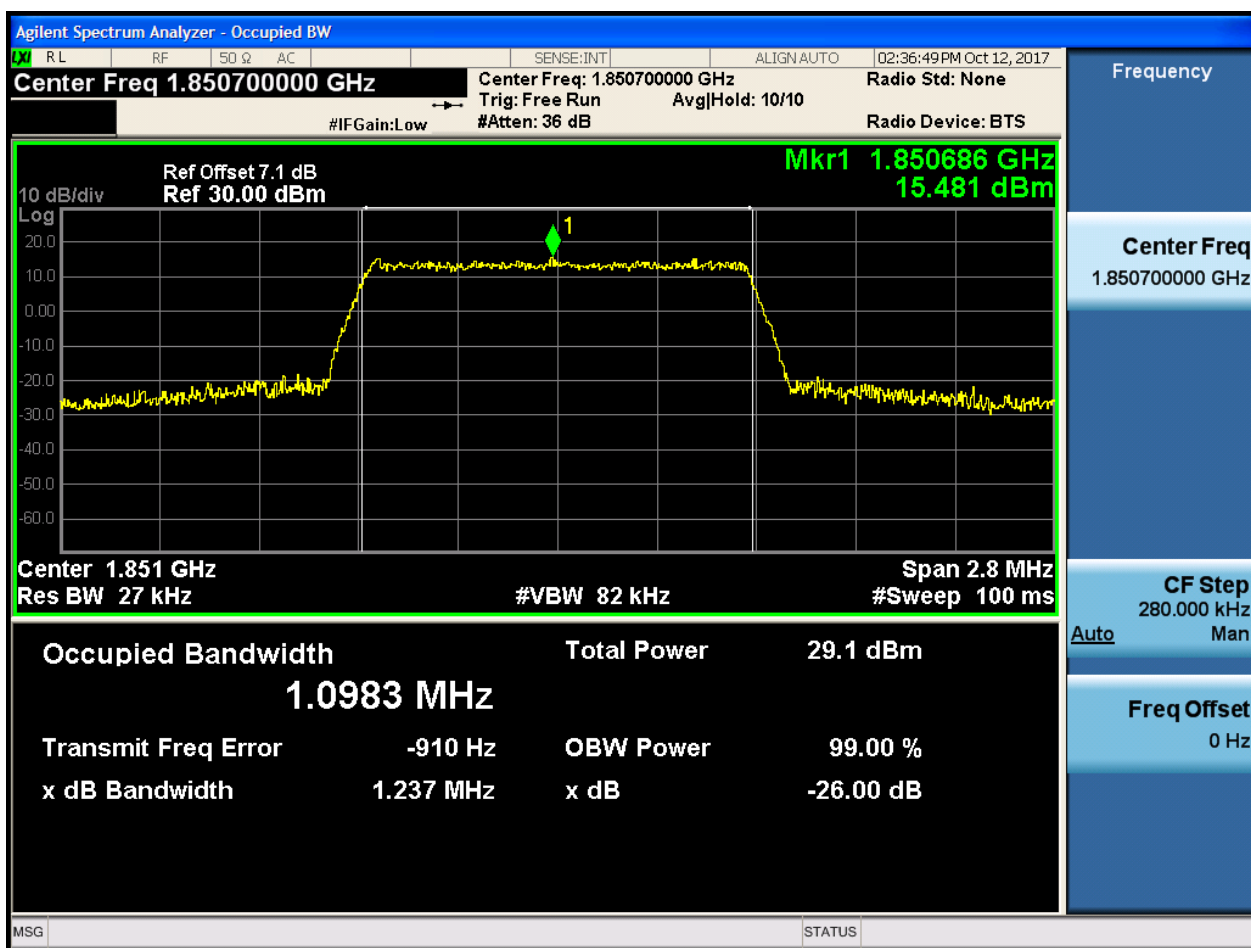
4.1.1 Test Band = BAND2

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

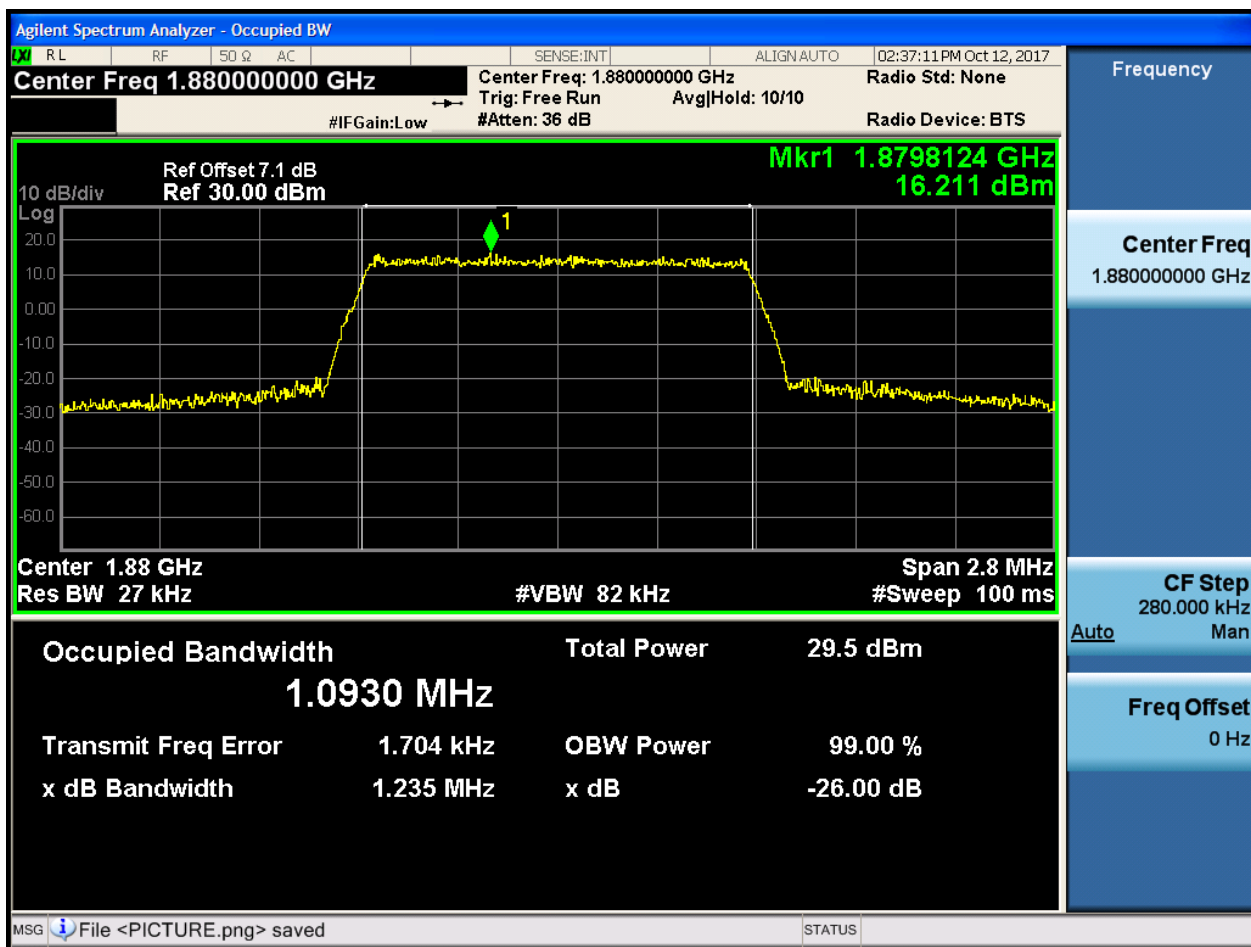
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

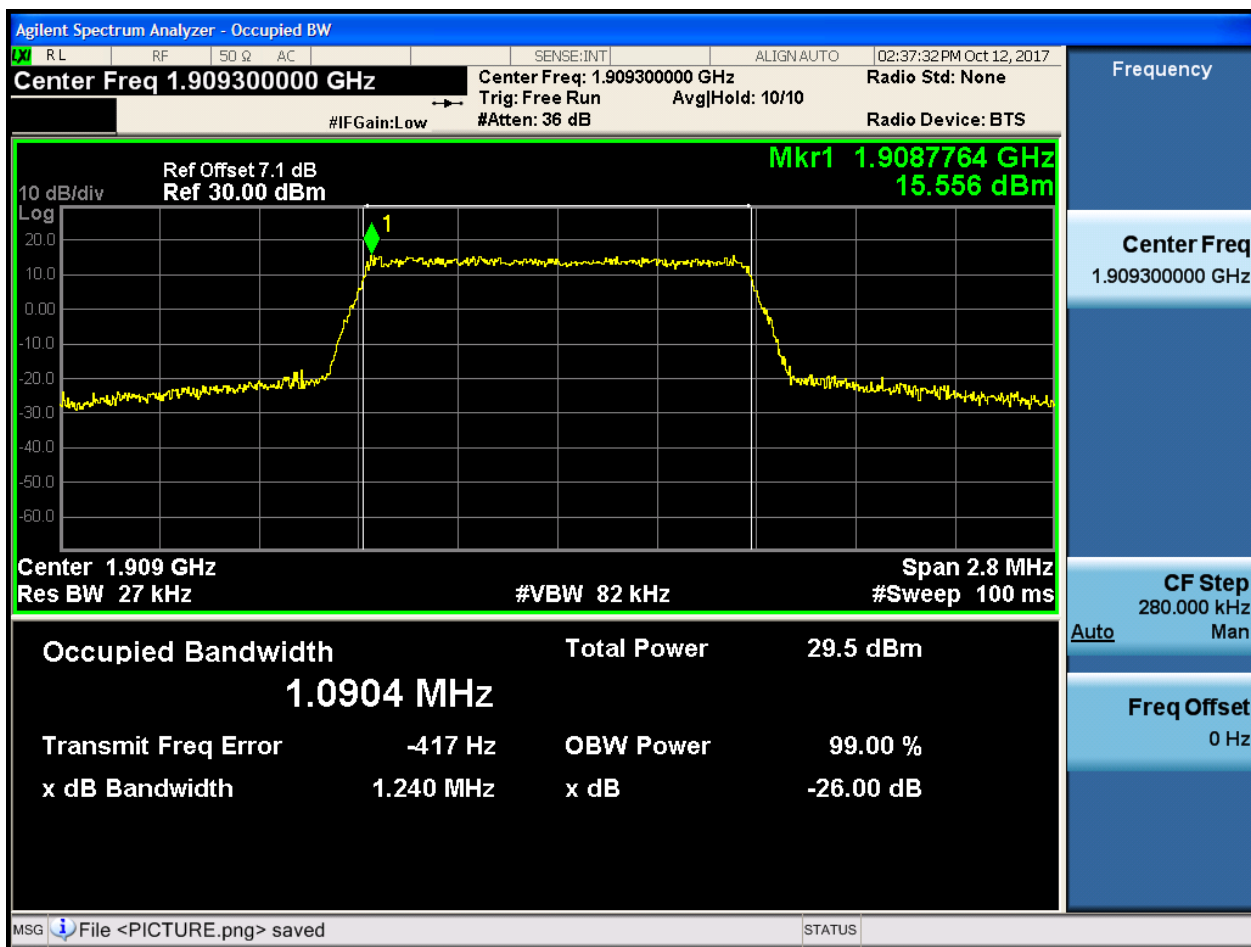
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

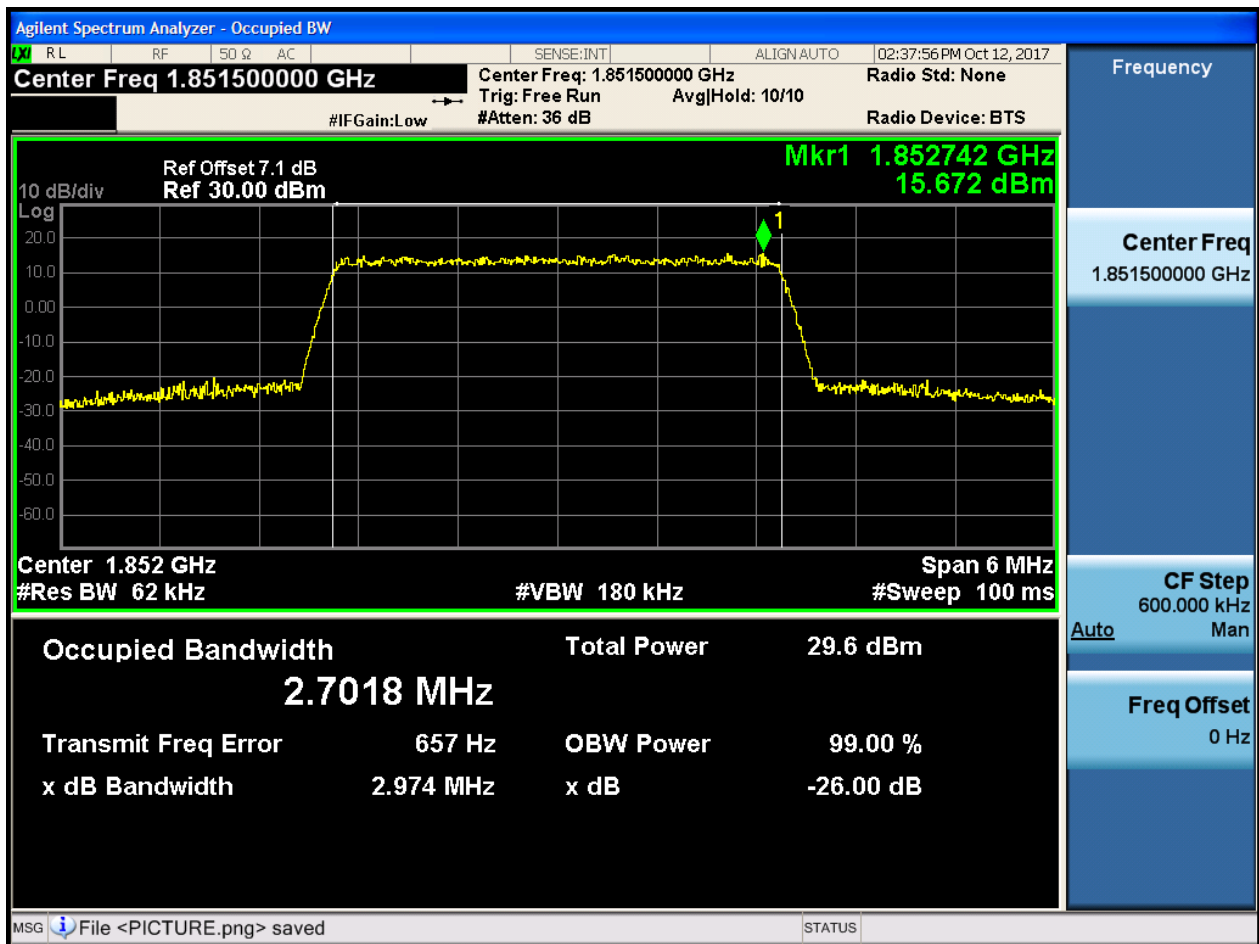




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

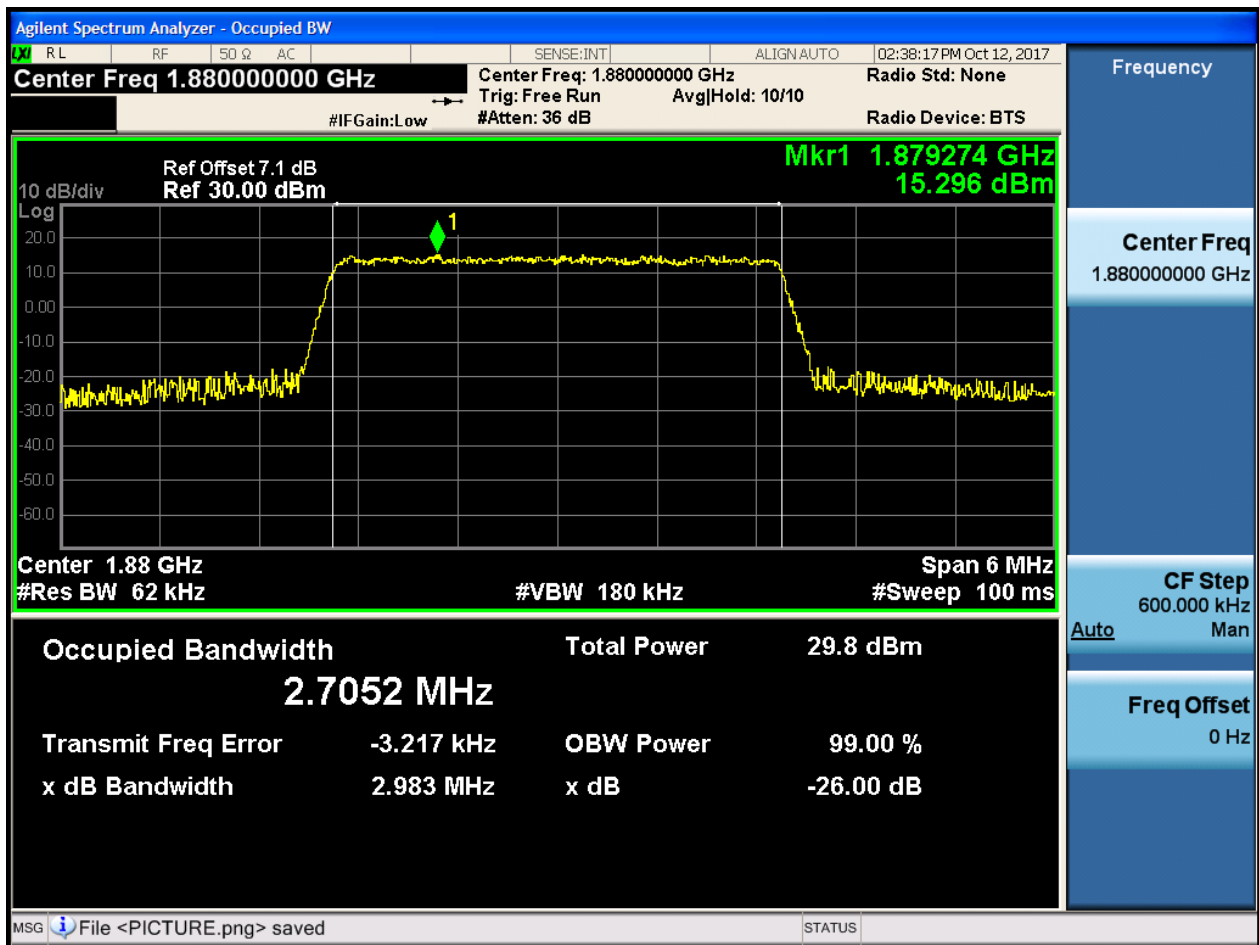
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

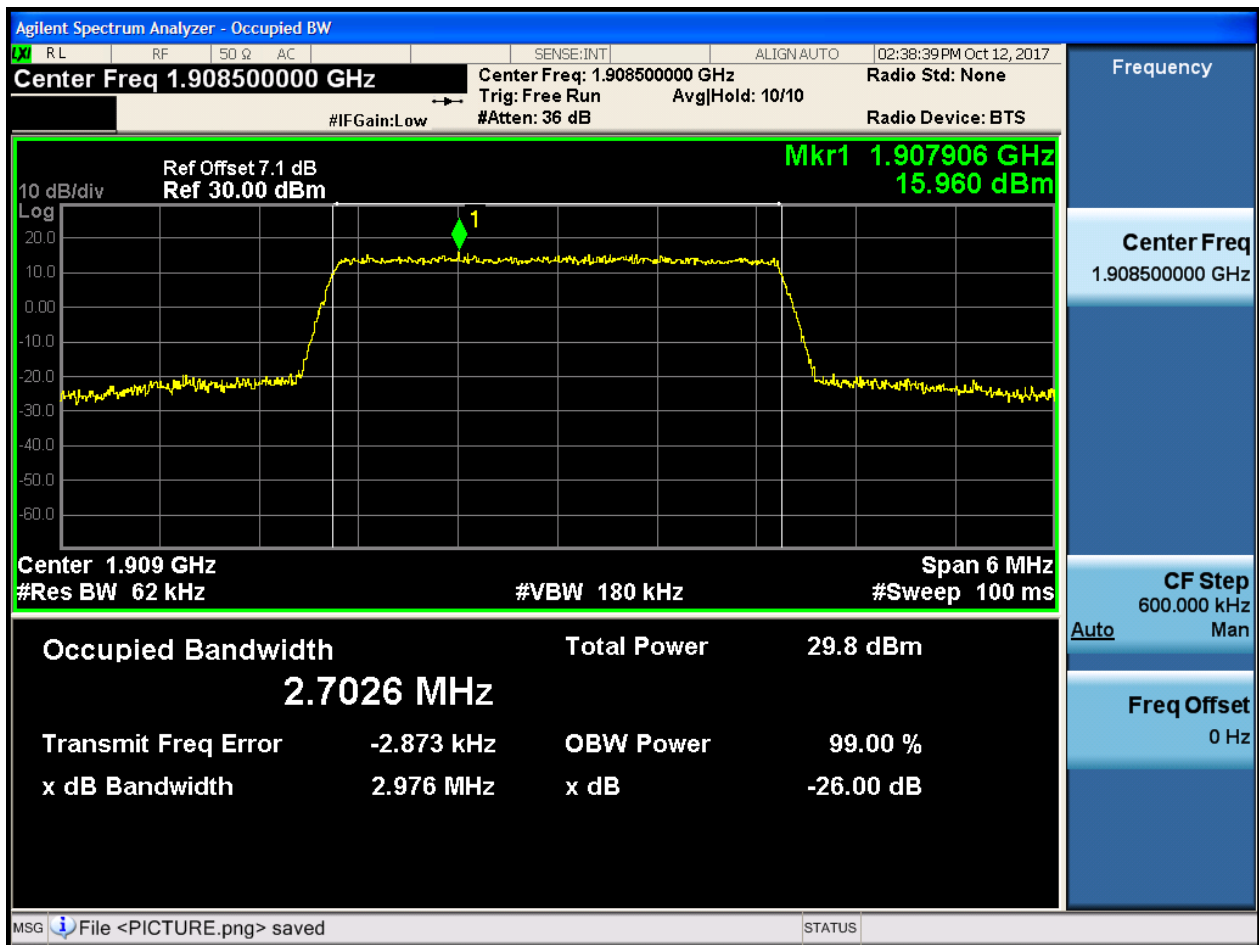
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

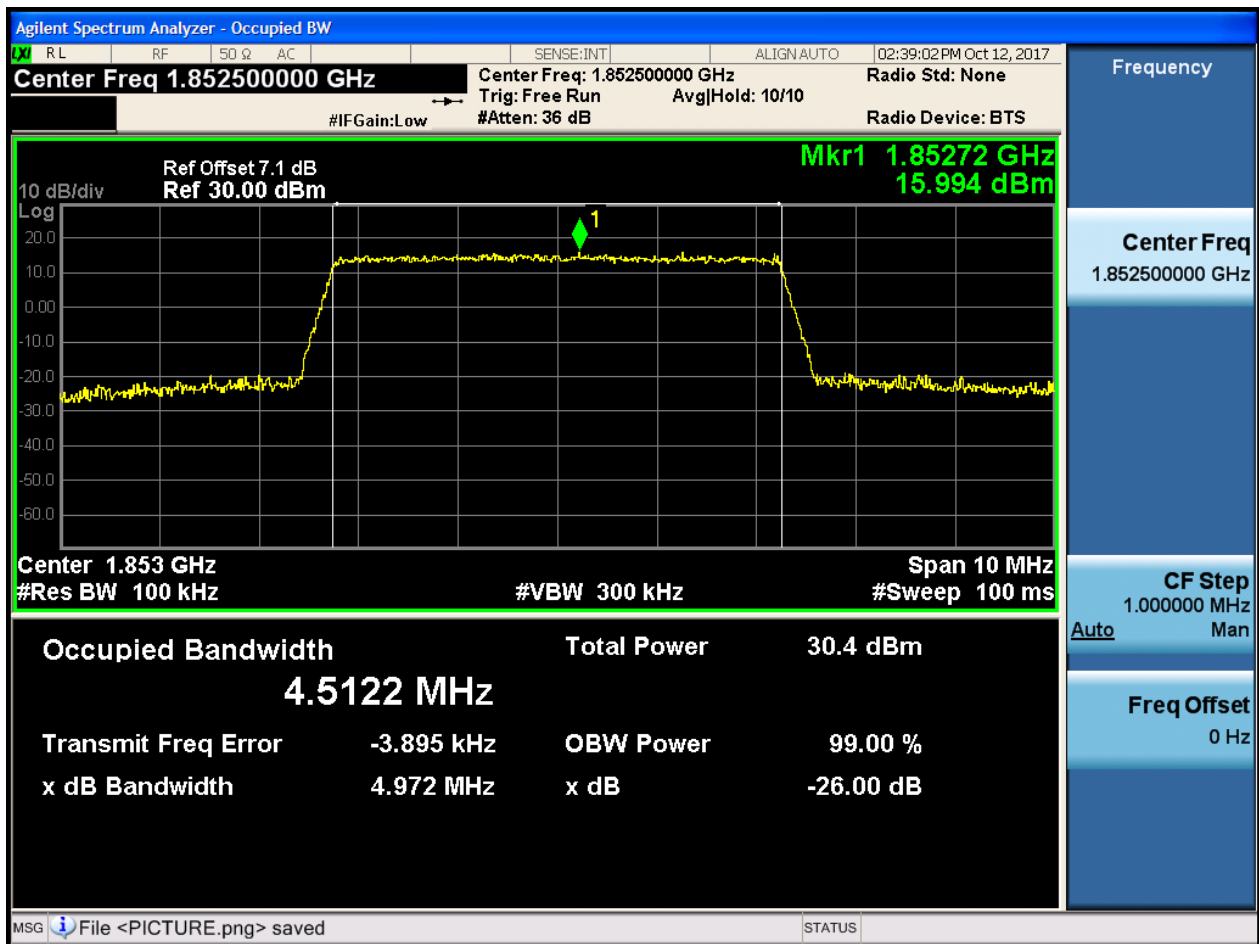




4.1.1.1.3 Test Bandwidth = 5

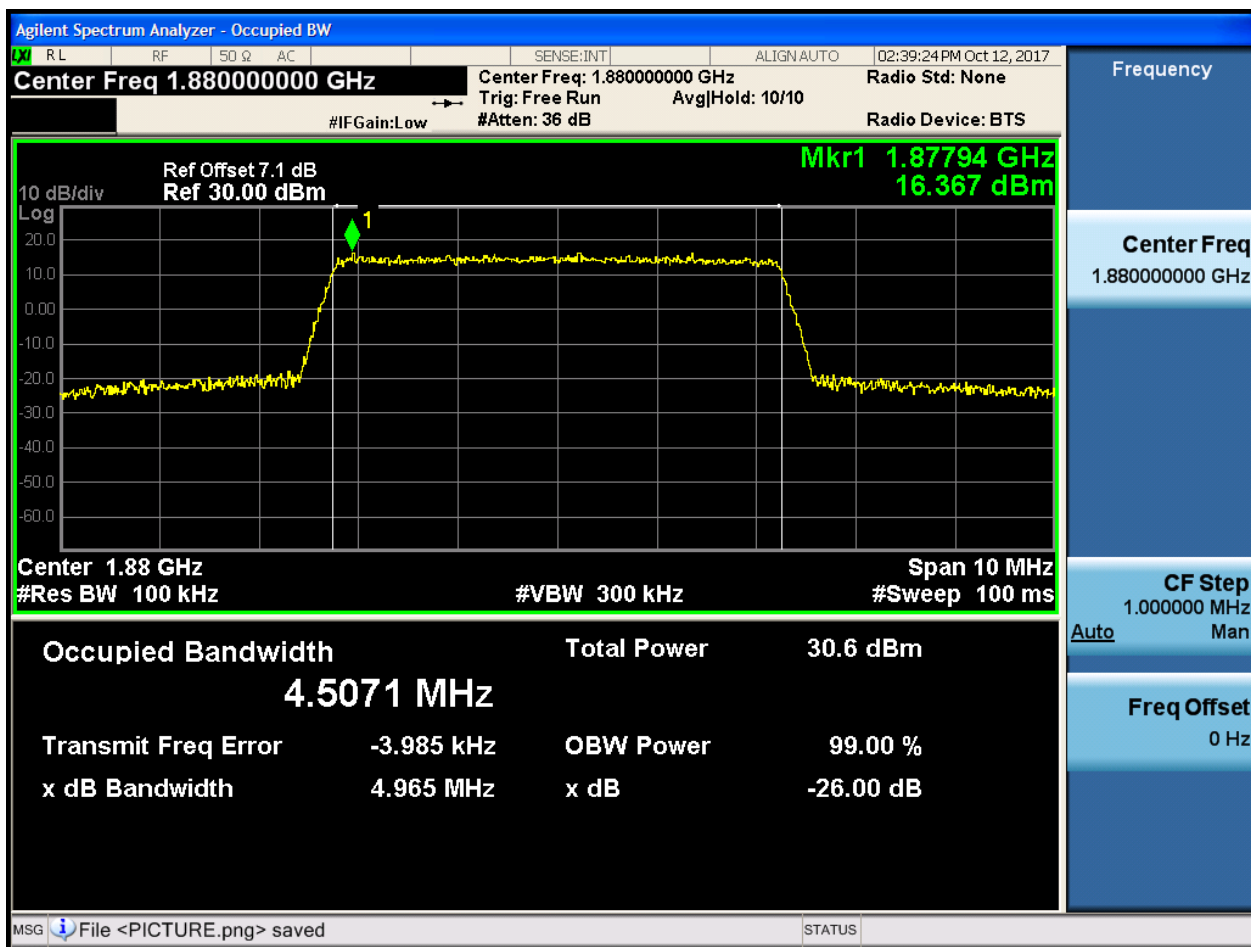
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



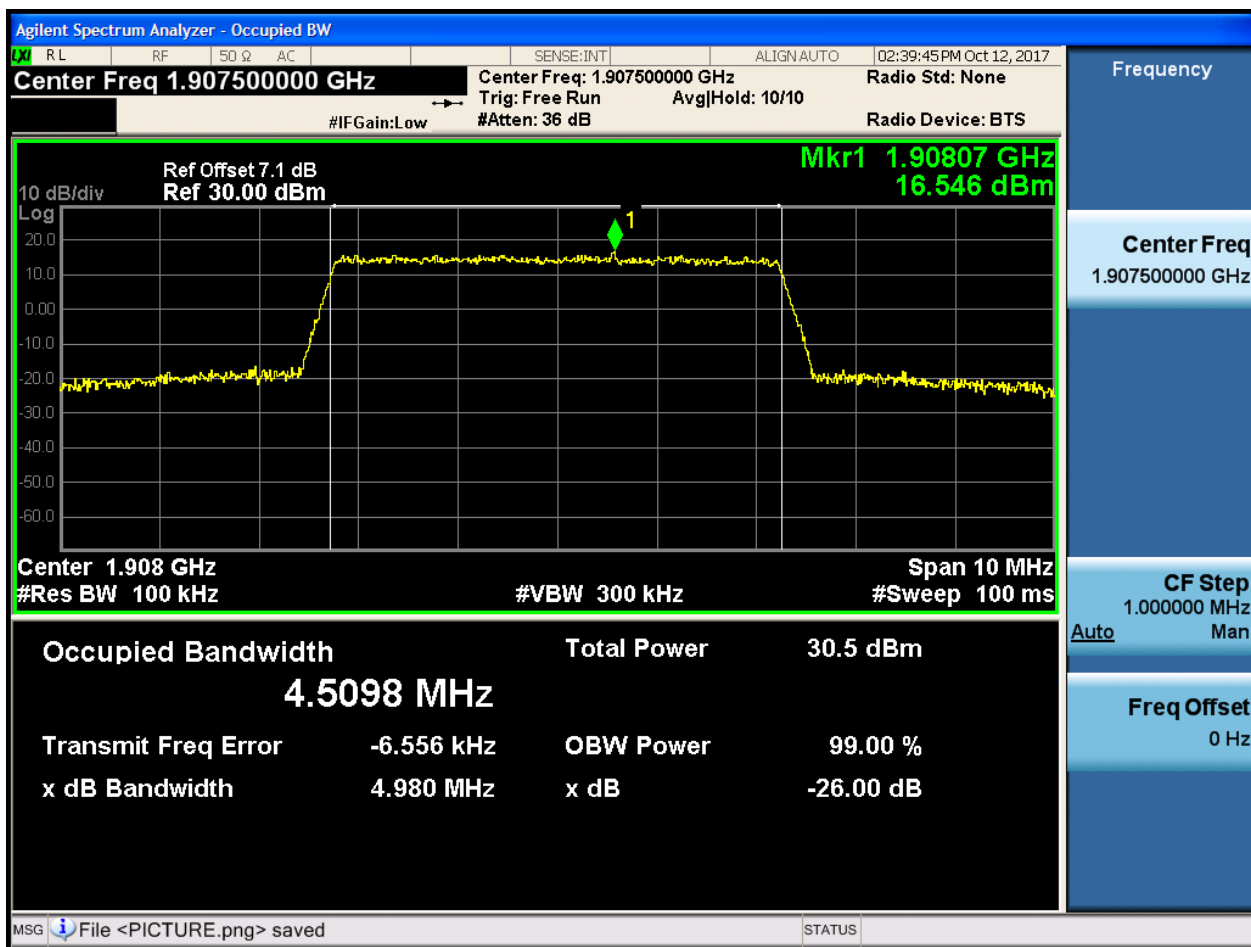
4.1.1.1.3.2 Test Channel = MCH

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

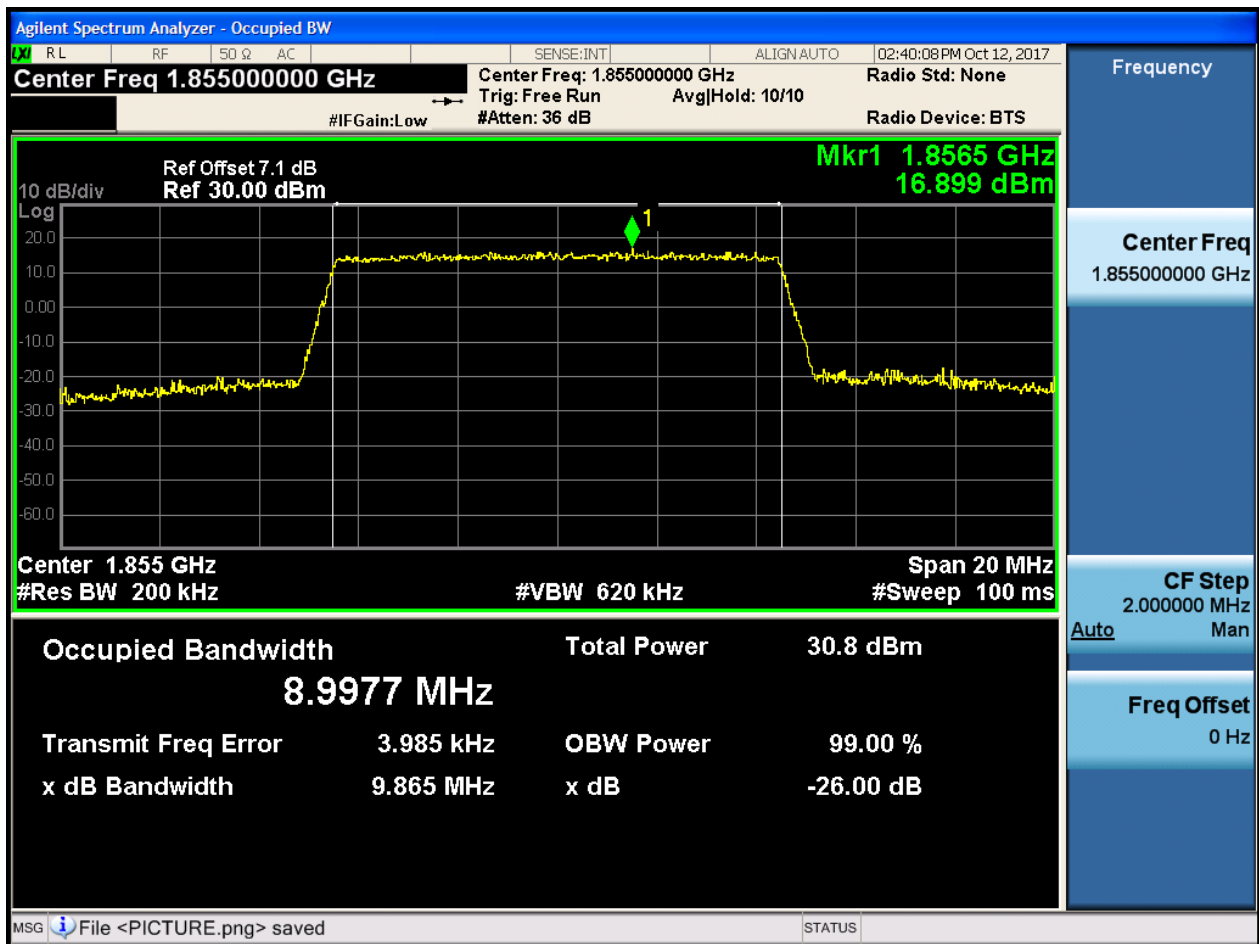




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

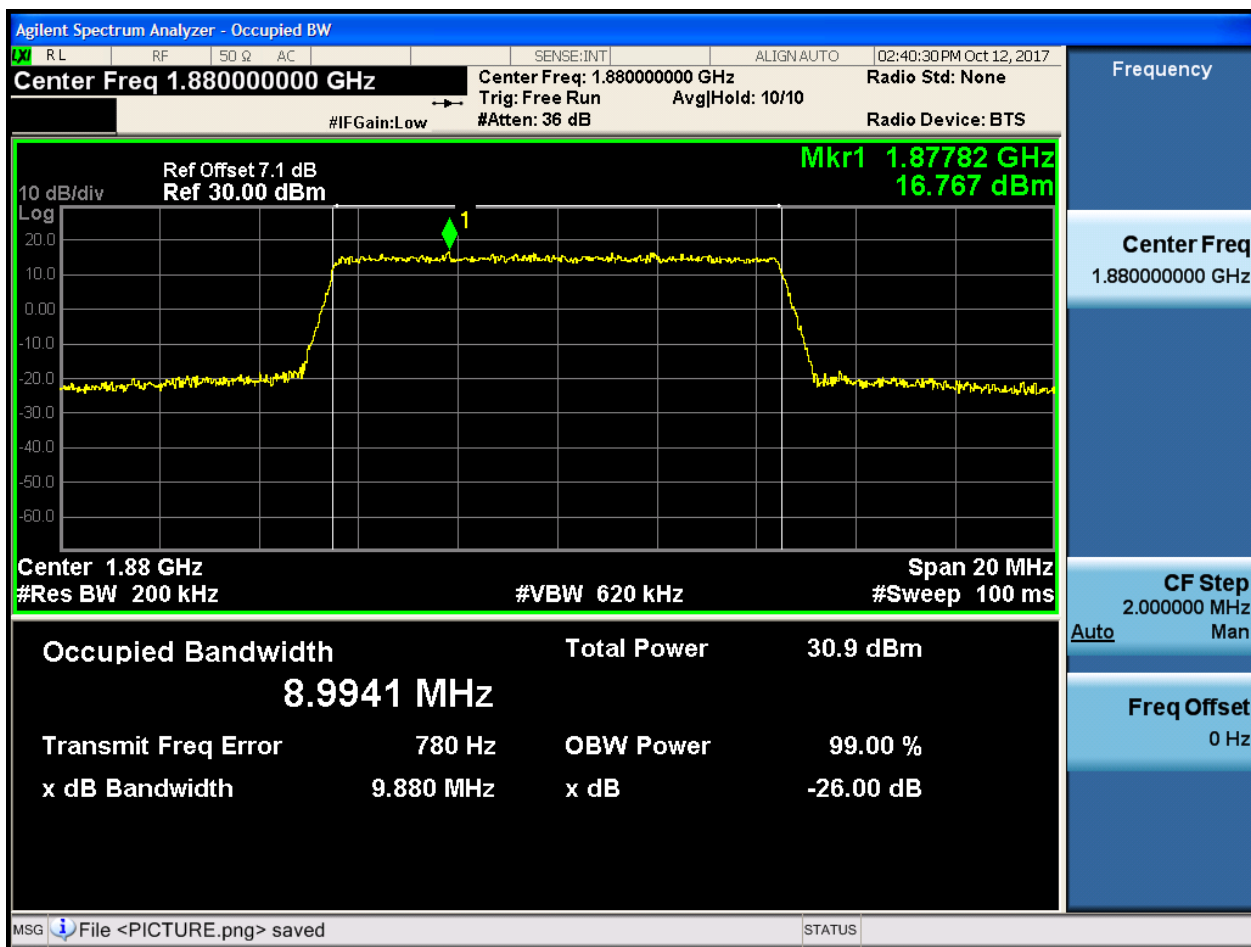
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

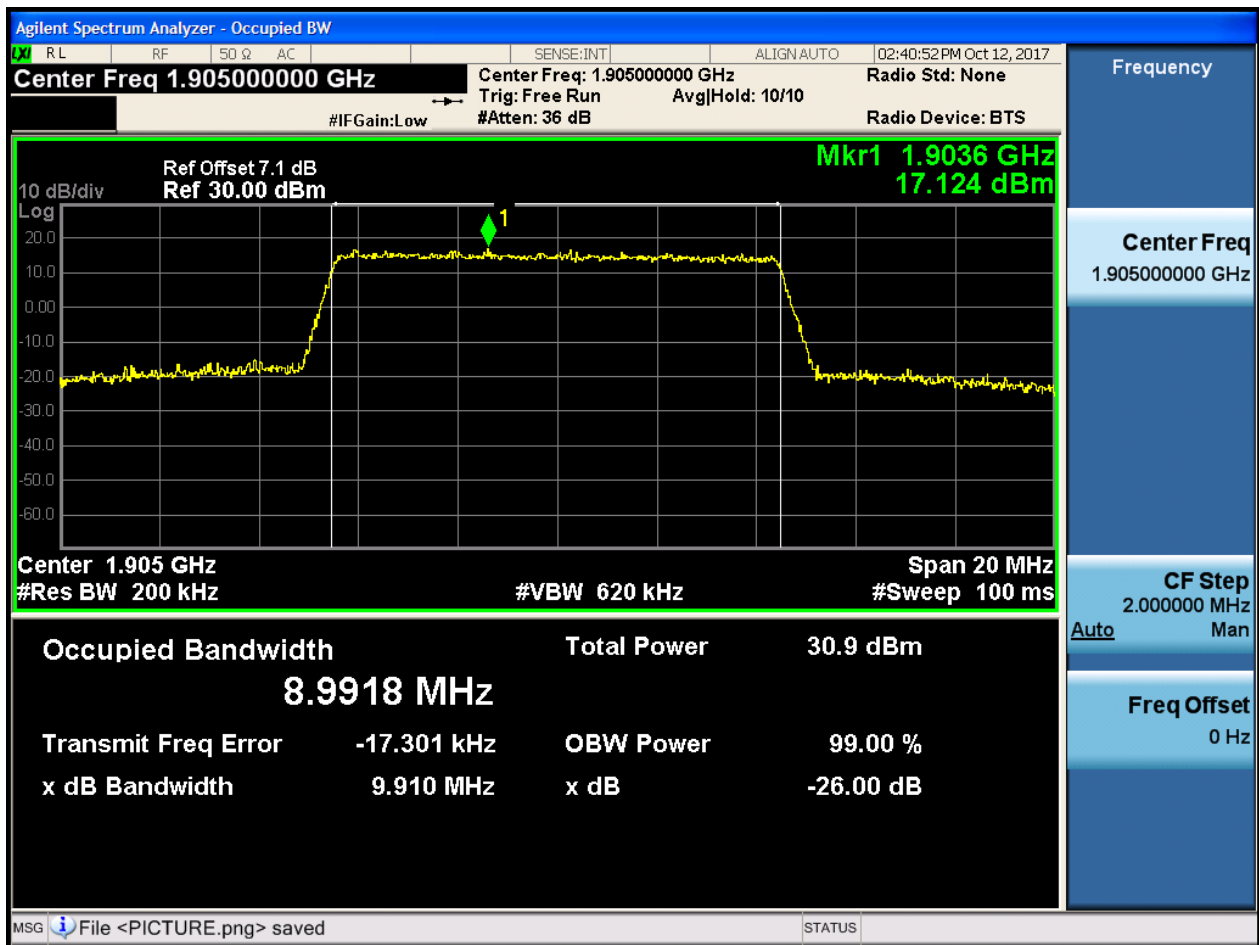
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0

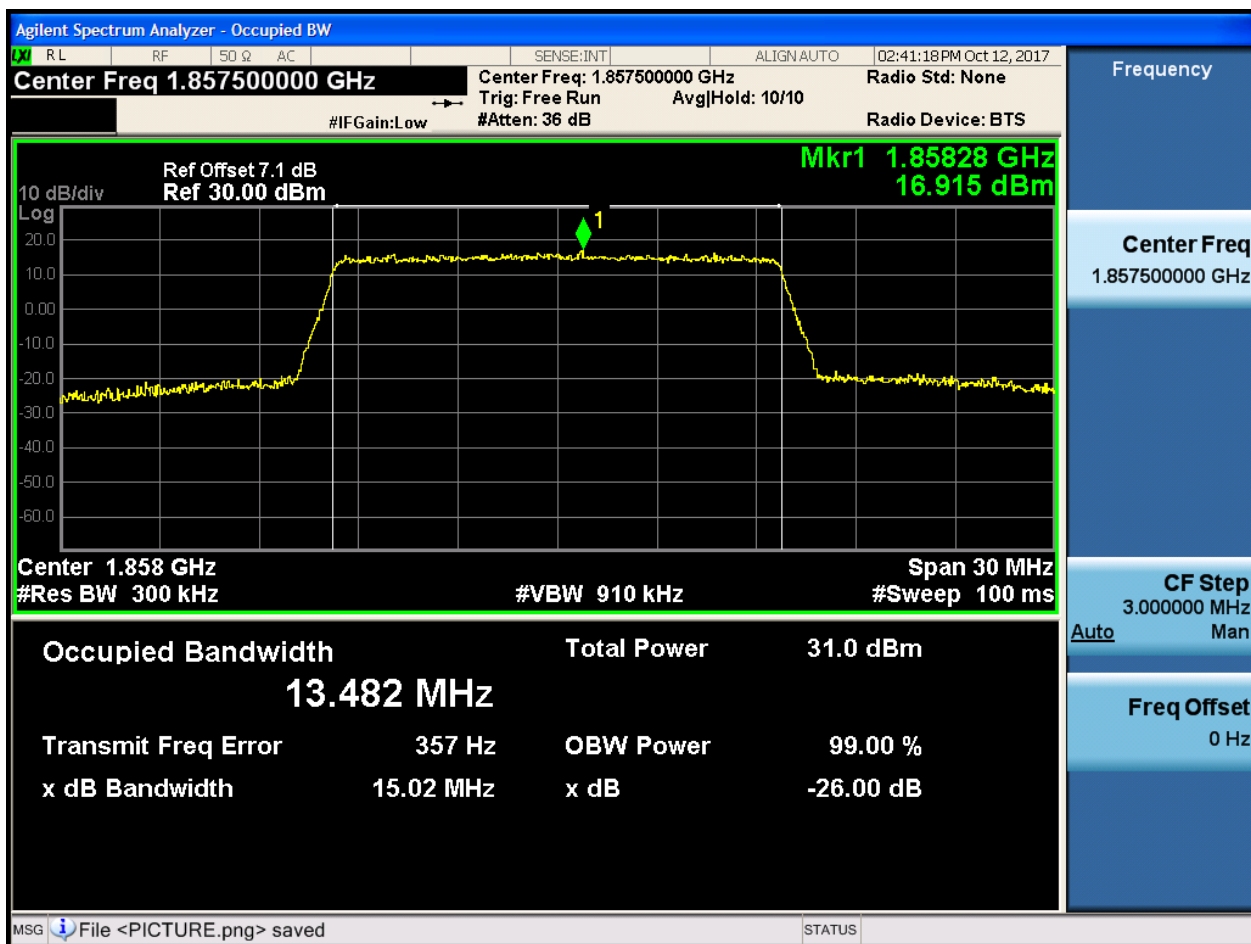




4.1.1.1.5 Test Bandwidth = 15

4.1.1.1.5.1 Test Channel = LCH

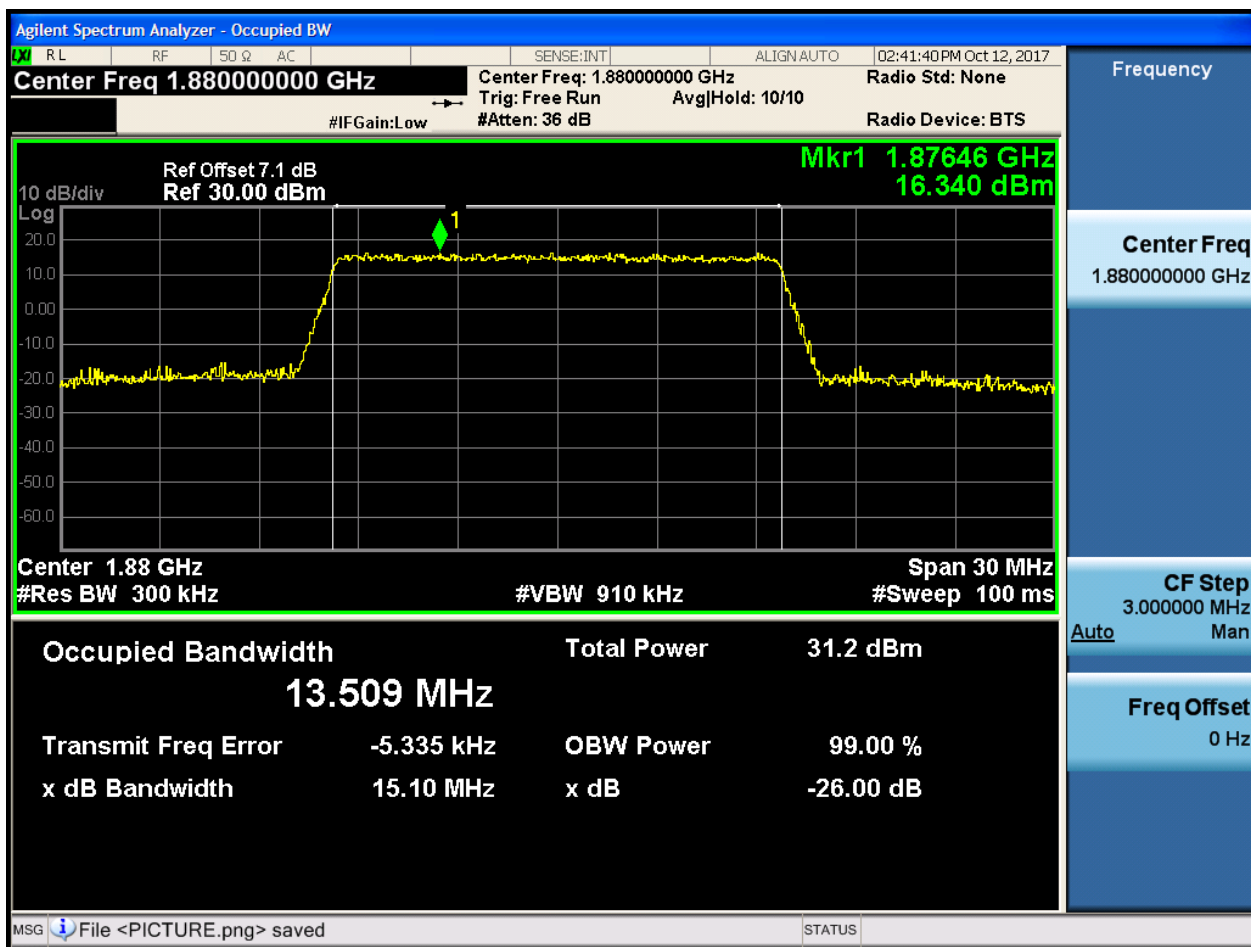
4.1.1.1.5.1.1 Test RB = RB75#0





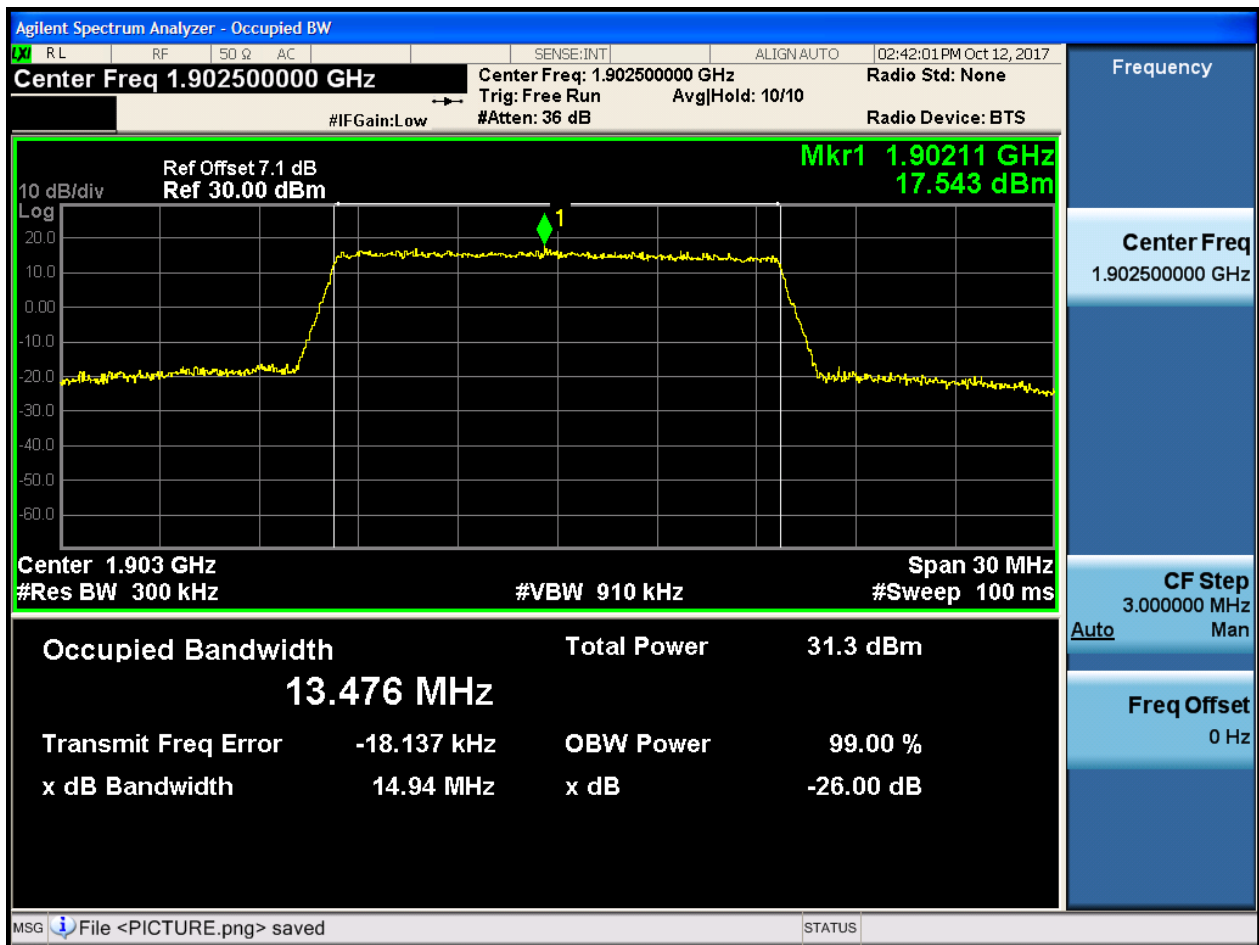
4.1.1.1.5.2 Test Channel = MCH

4.1.1.1.5.2.1 Test RB = RB75#0



4.1.1.1.5.3 Test Channel = HCH

4.1.1.1.5.3.1 Test RB = RB75#0

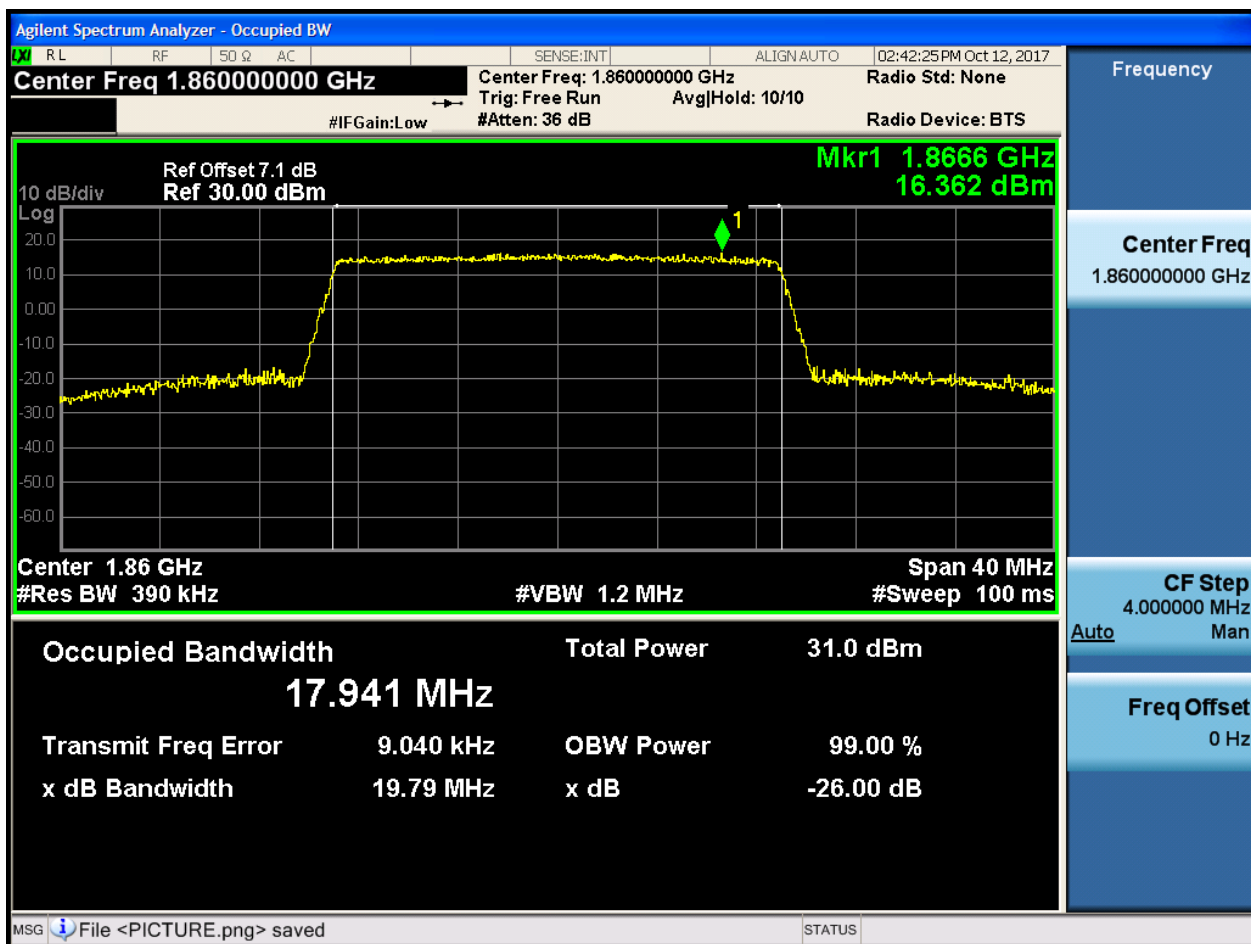




4.1.1.1.6 Test Bandwidth = 20

4.1.1.1.6.1 Test Channel = LCH

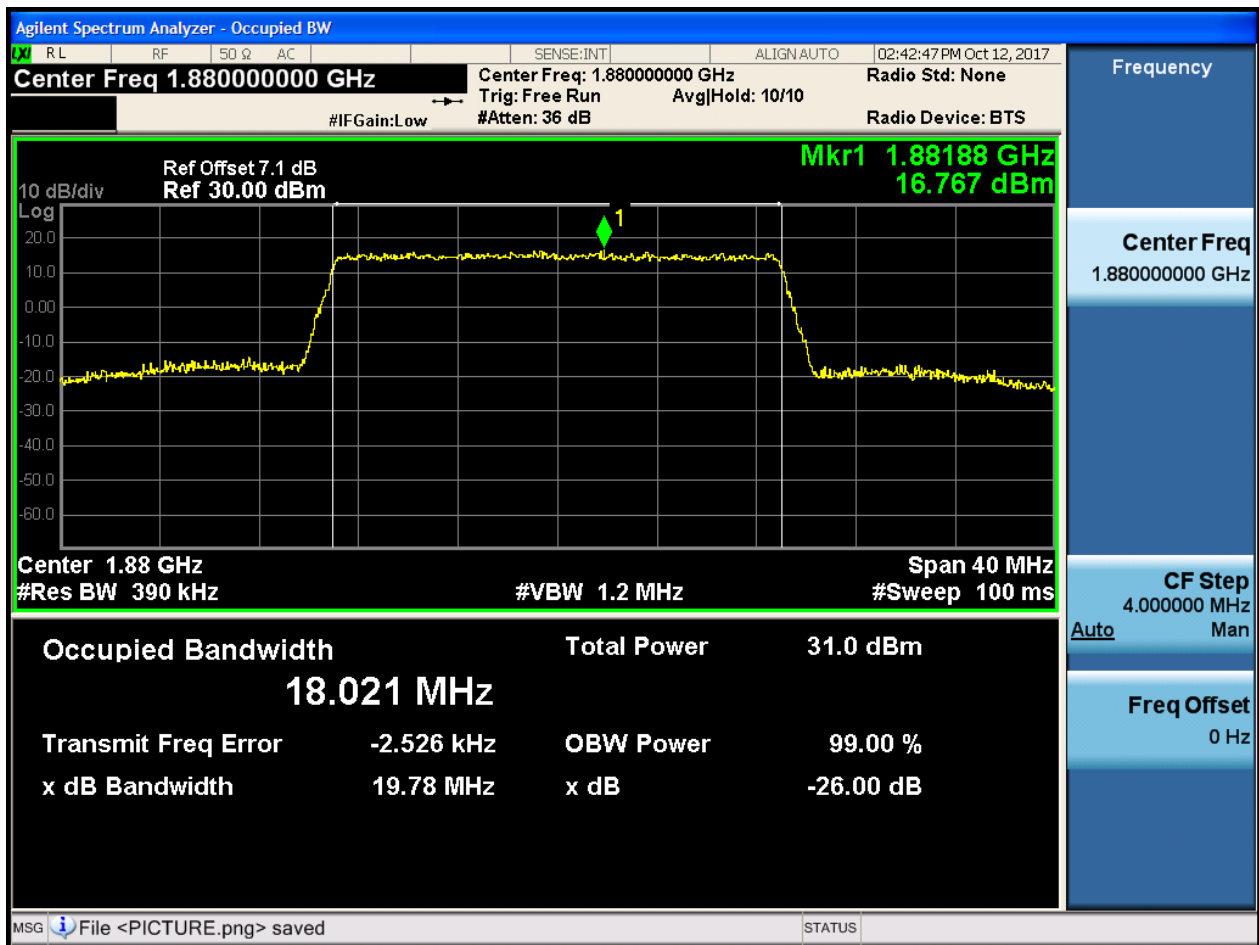
4.1.1.1.6.1.1 Test RB = RB100#0





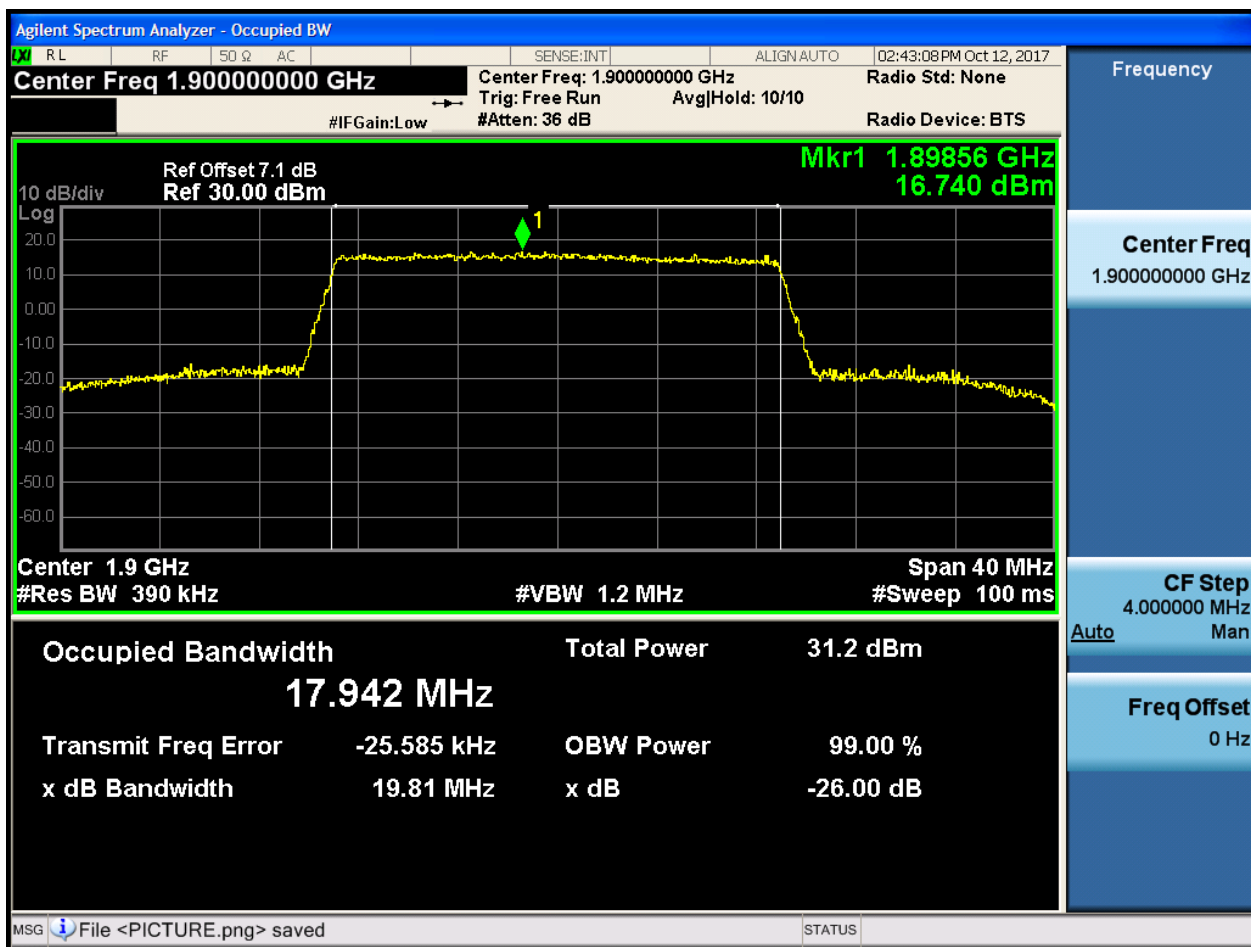
4.1.1.1.6.2 Test Channel = MCH

4.1.1.1.6.2.1 Test RB = RB100#0



4.1.1.1.6.3 Test Channel = HCH

4.1.1.1.6.3.1 Test RB = RB100#0



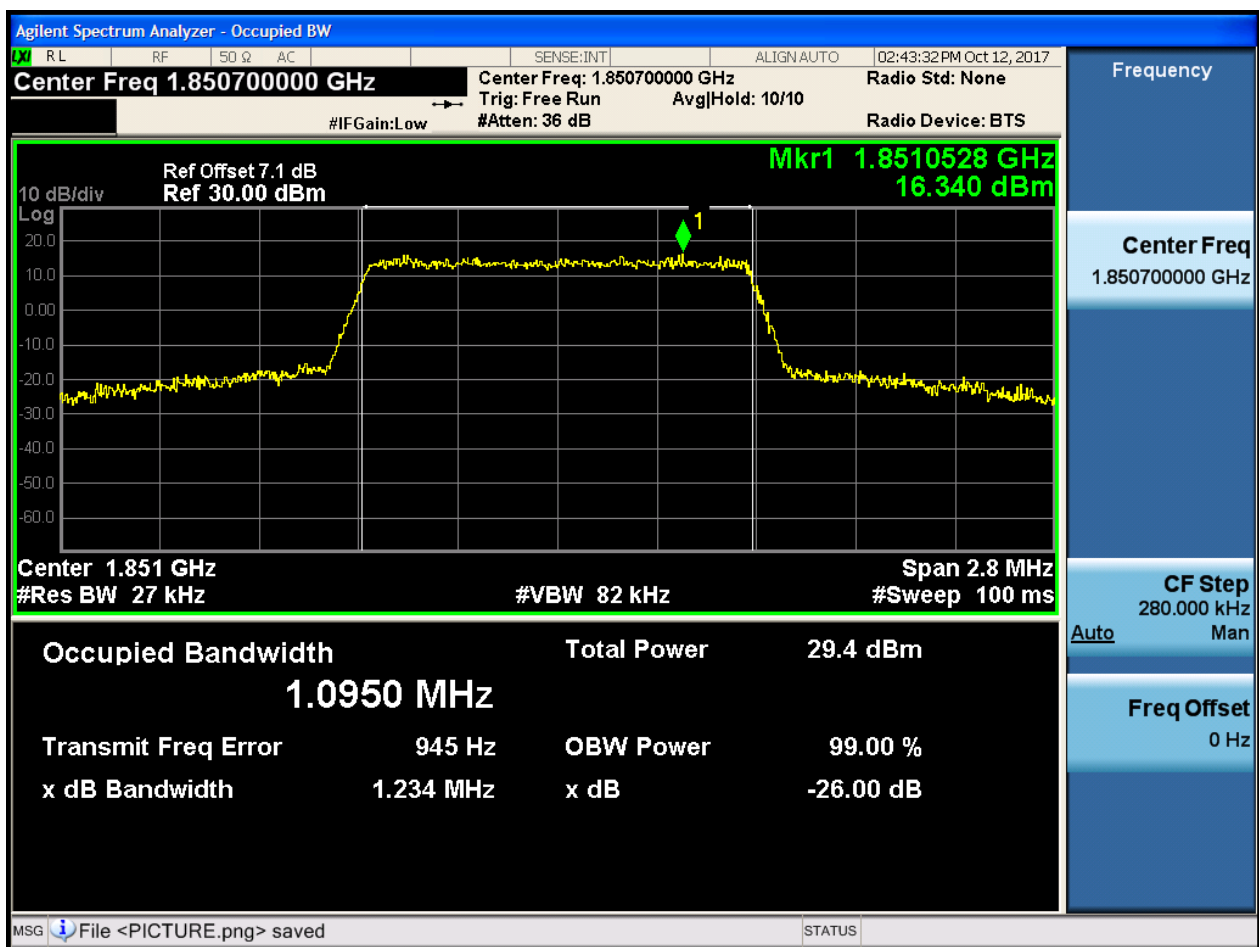


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

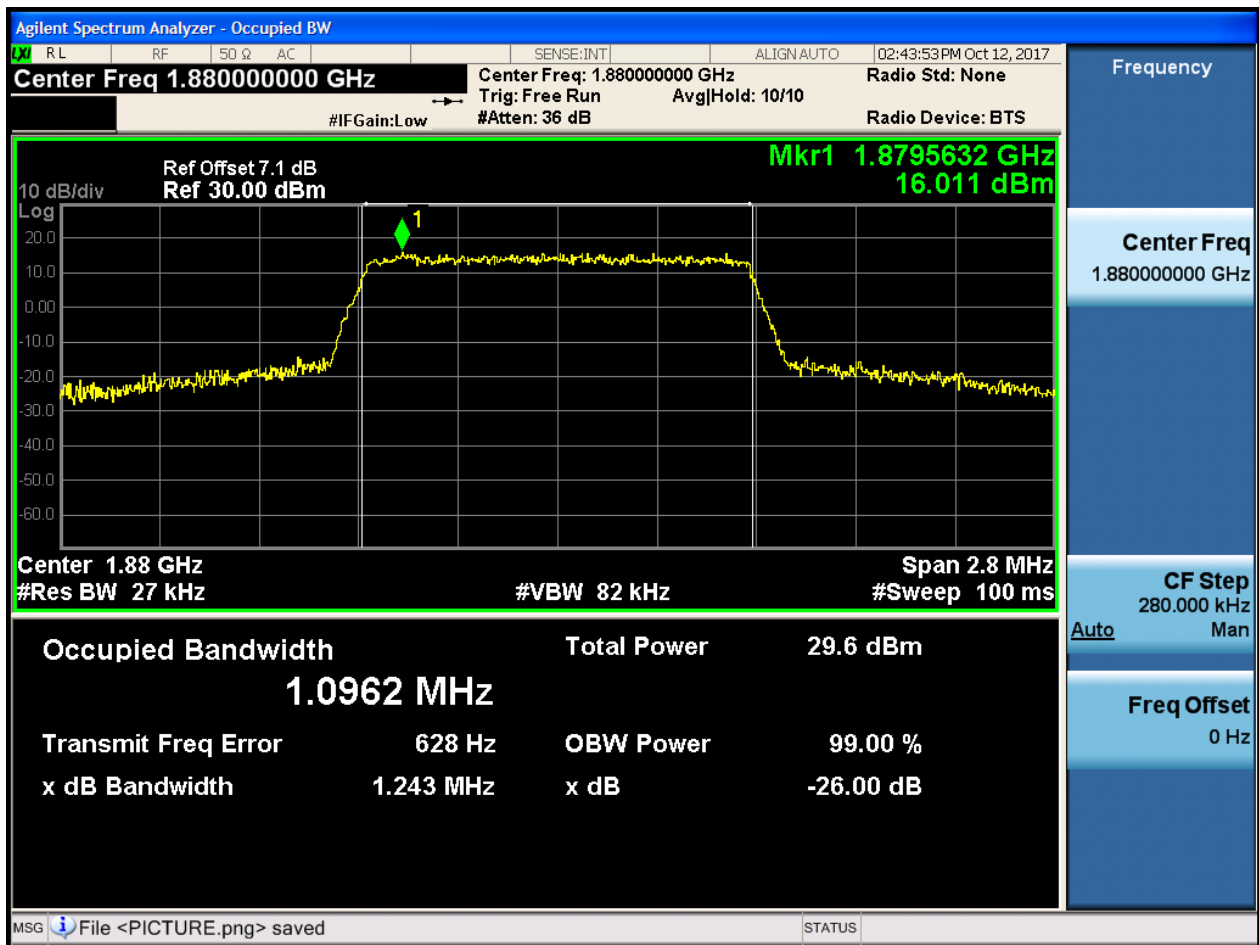
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB6#0



4.1.1.2.1.2 Test Channel = MCH

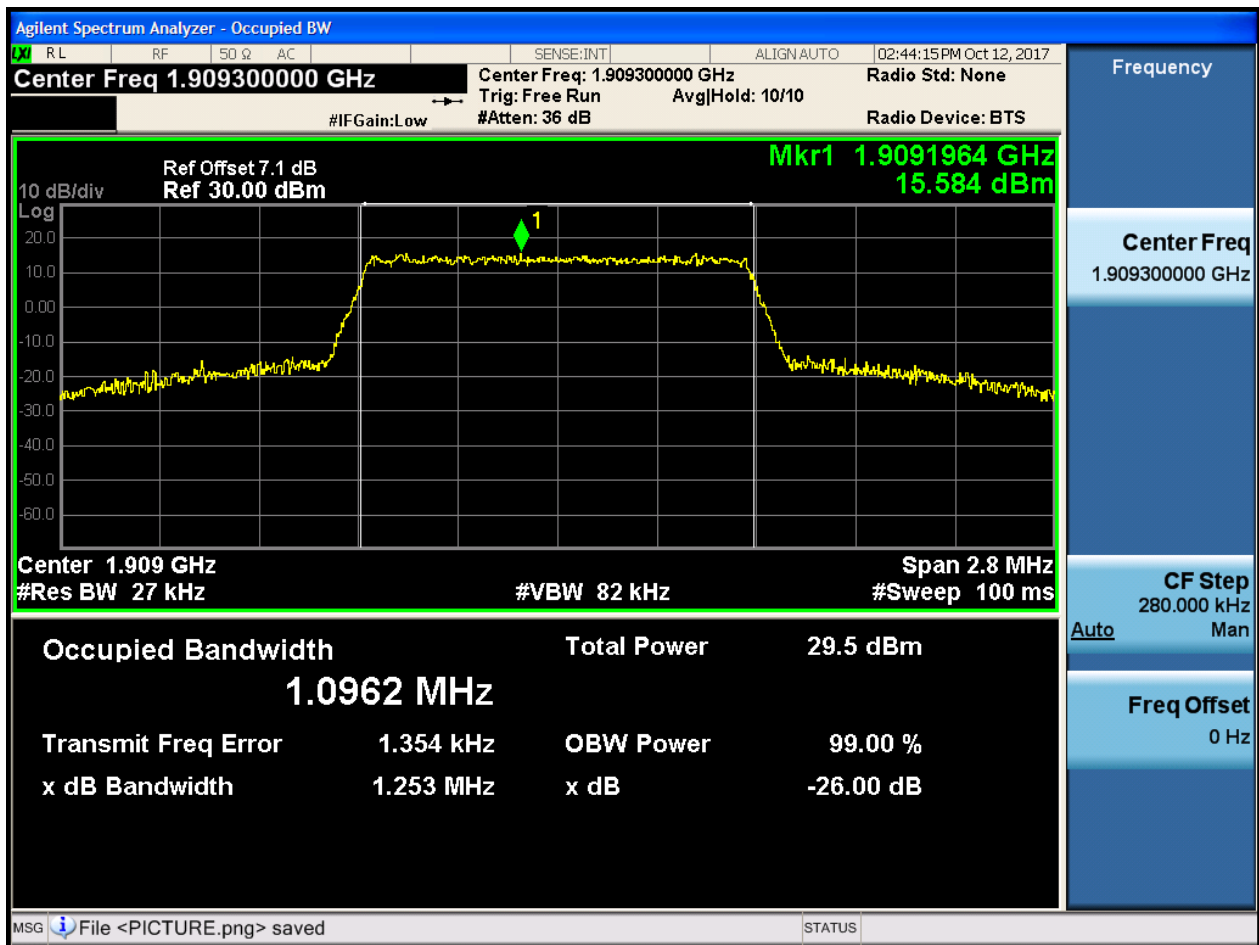
4.1.1.2.1.2.1 Test RB = RB6#0





4.1.1.2.1.3 Test Channel = HCH

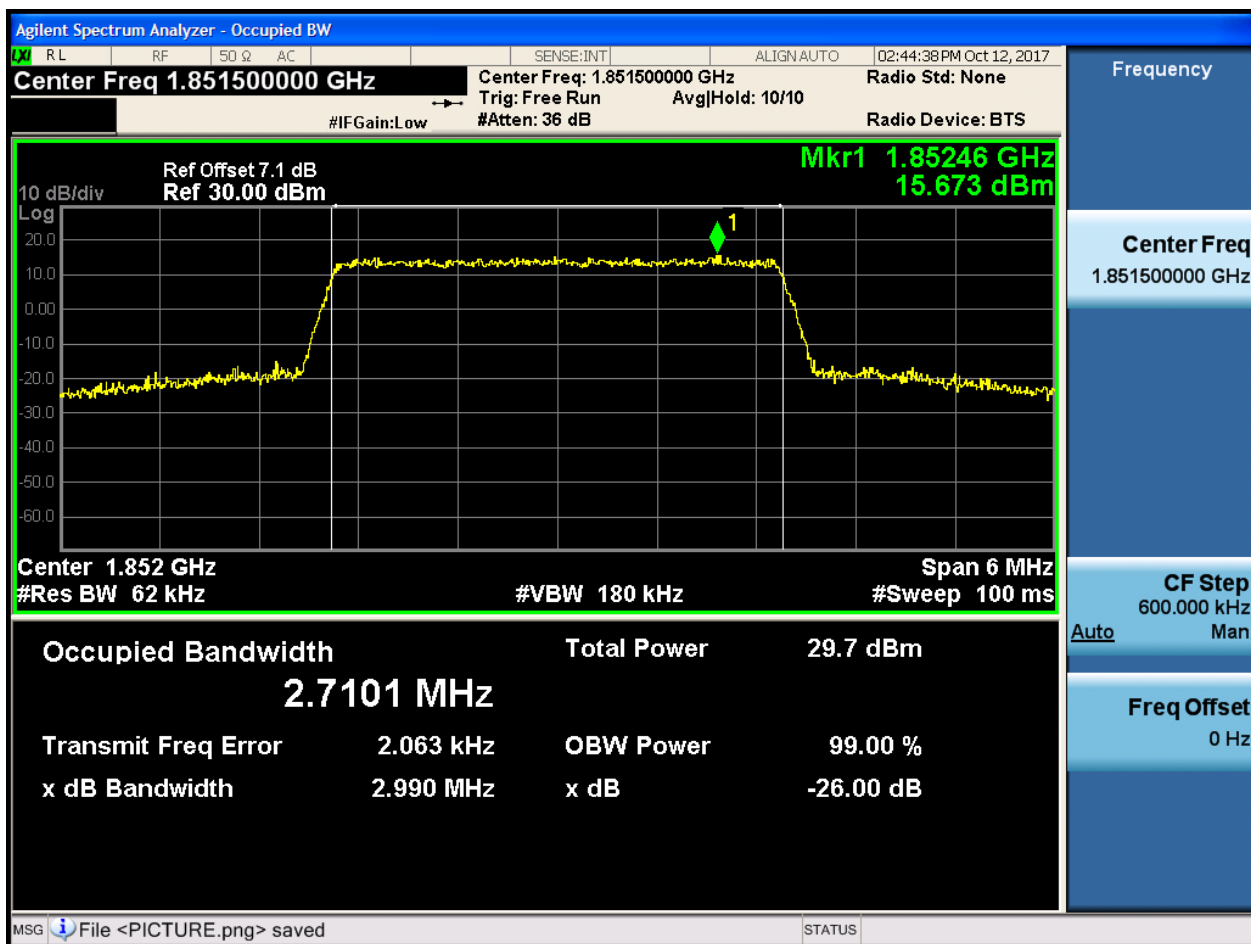
4.1.1.2.1.3.1 Test RB = RB6#0



4.1.1.2.2 Test Bandwidth = 3

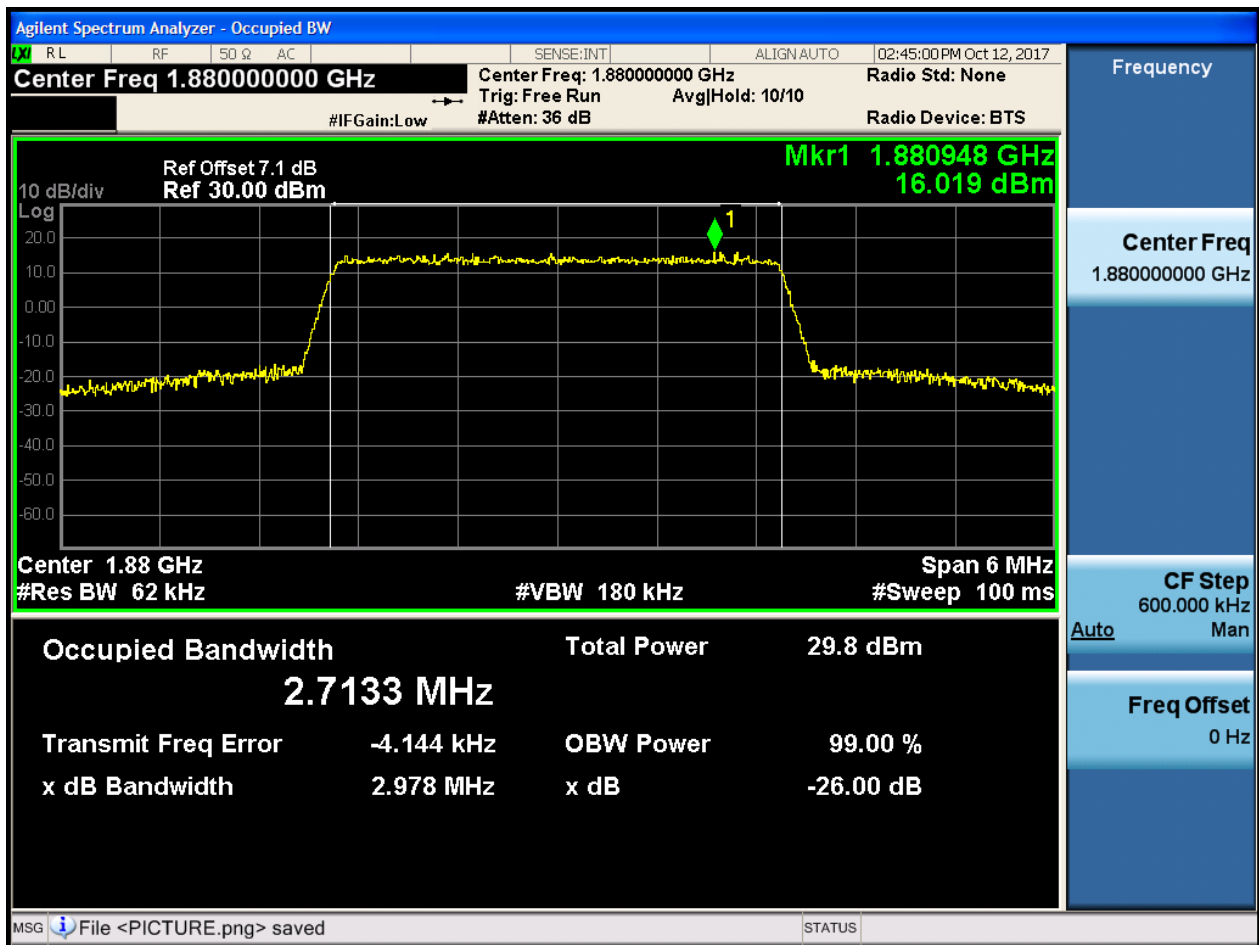
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



4.1.1.2.2.2 Test Channel = MCH

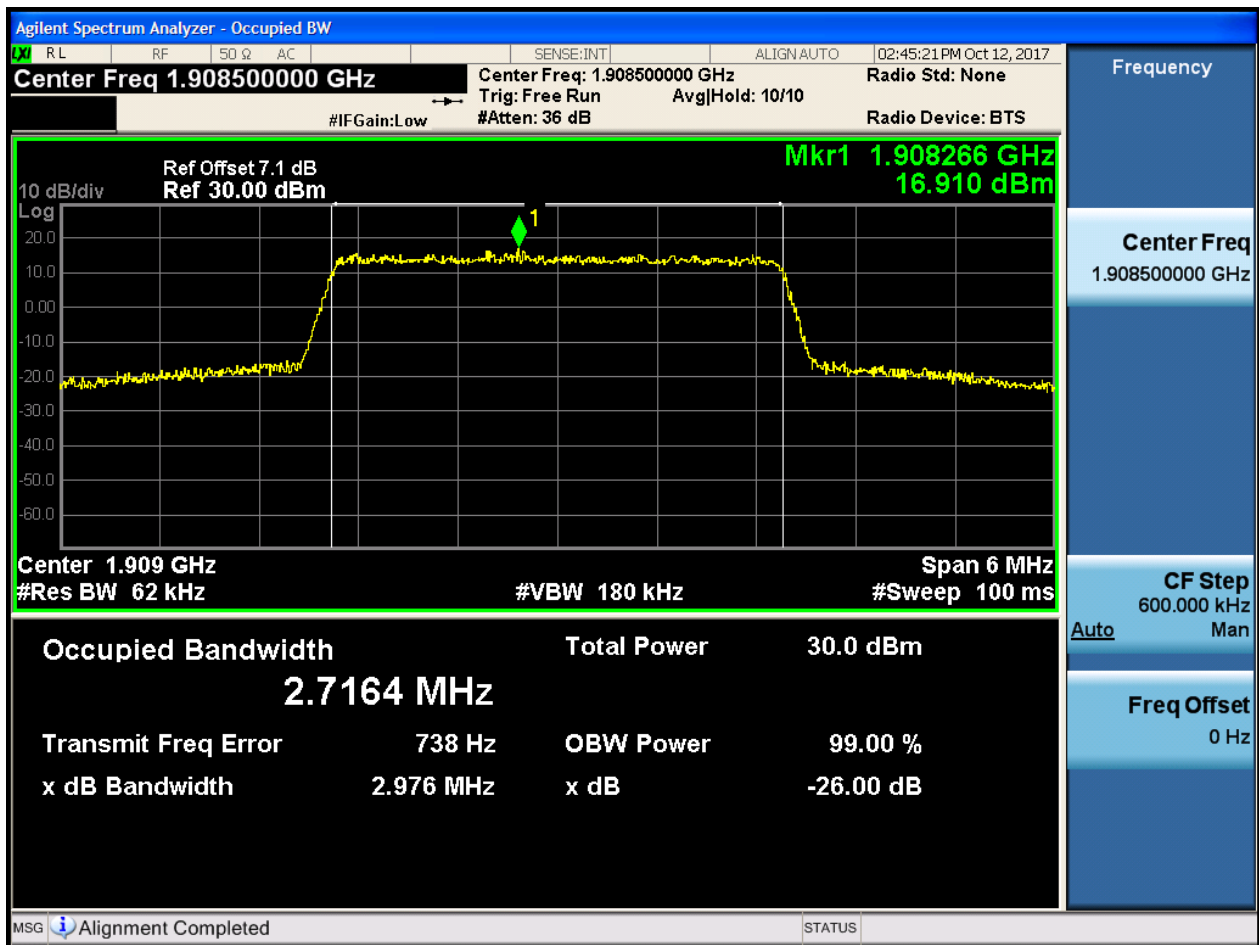
4.1.1.2.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

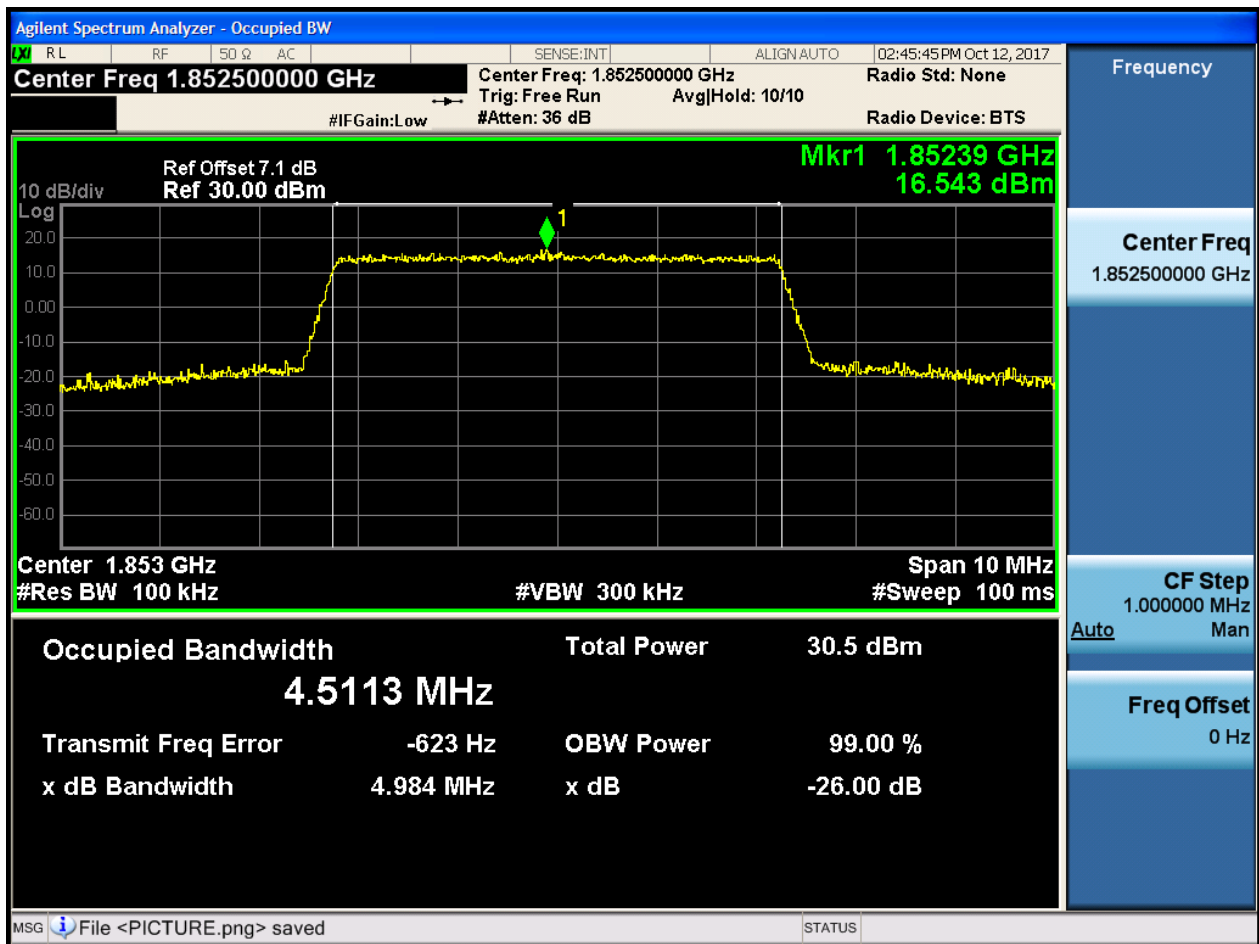




4.1.1.2.3 Test Bandwidth = 5

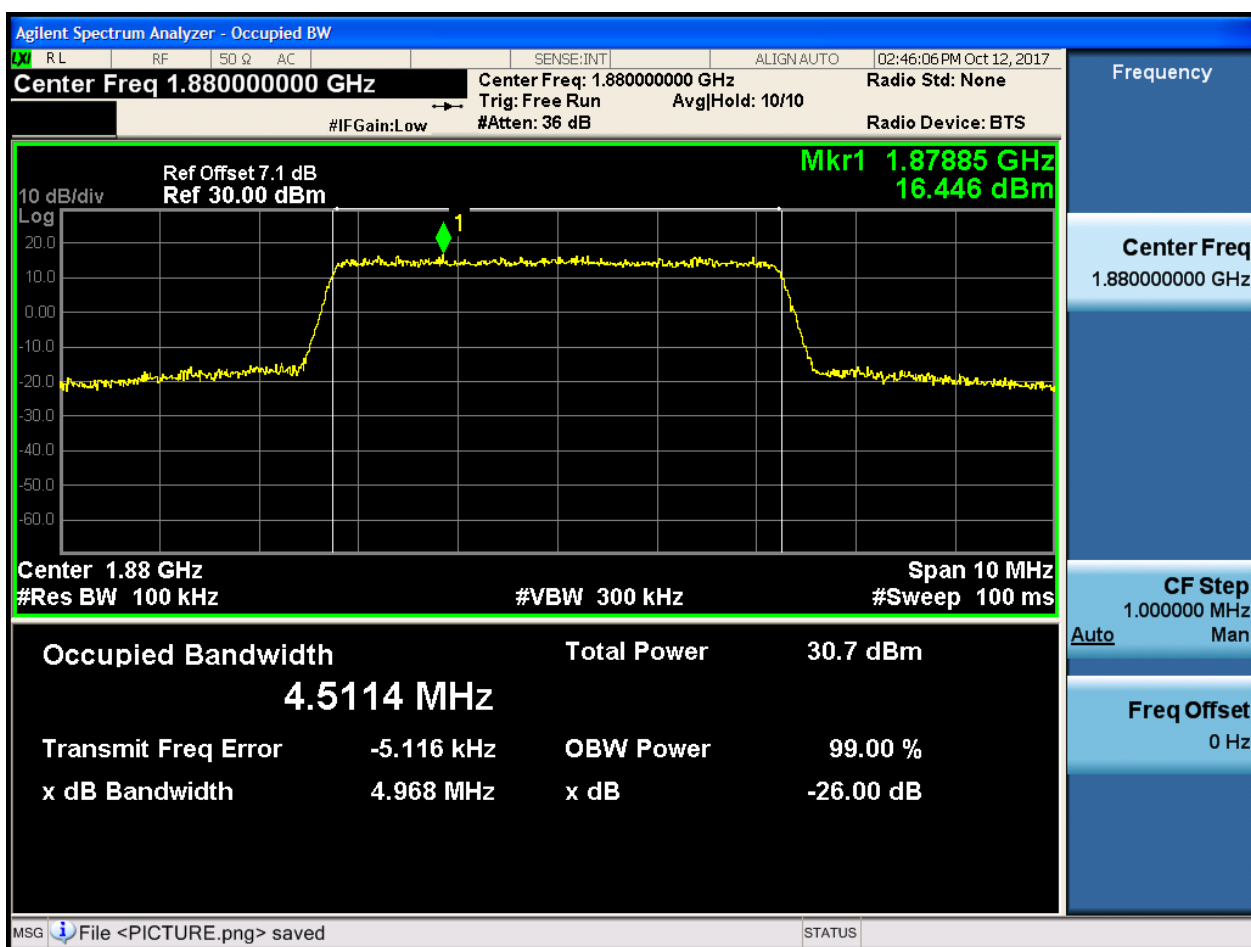
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB25#0



4.1.1.2.3.2 Test Channel = MCH

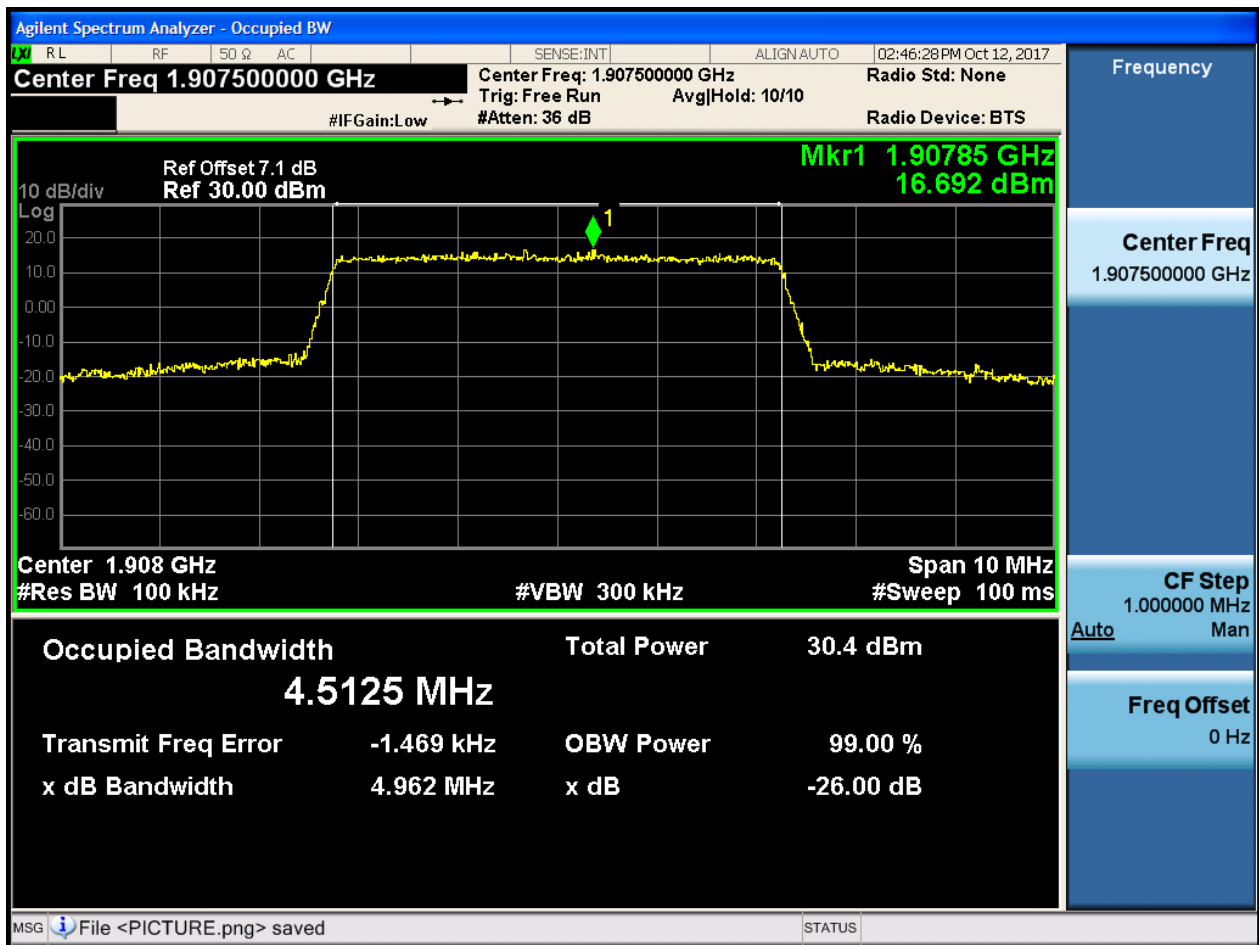
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

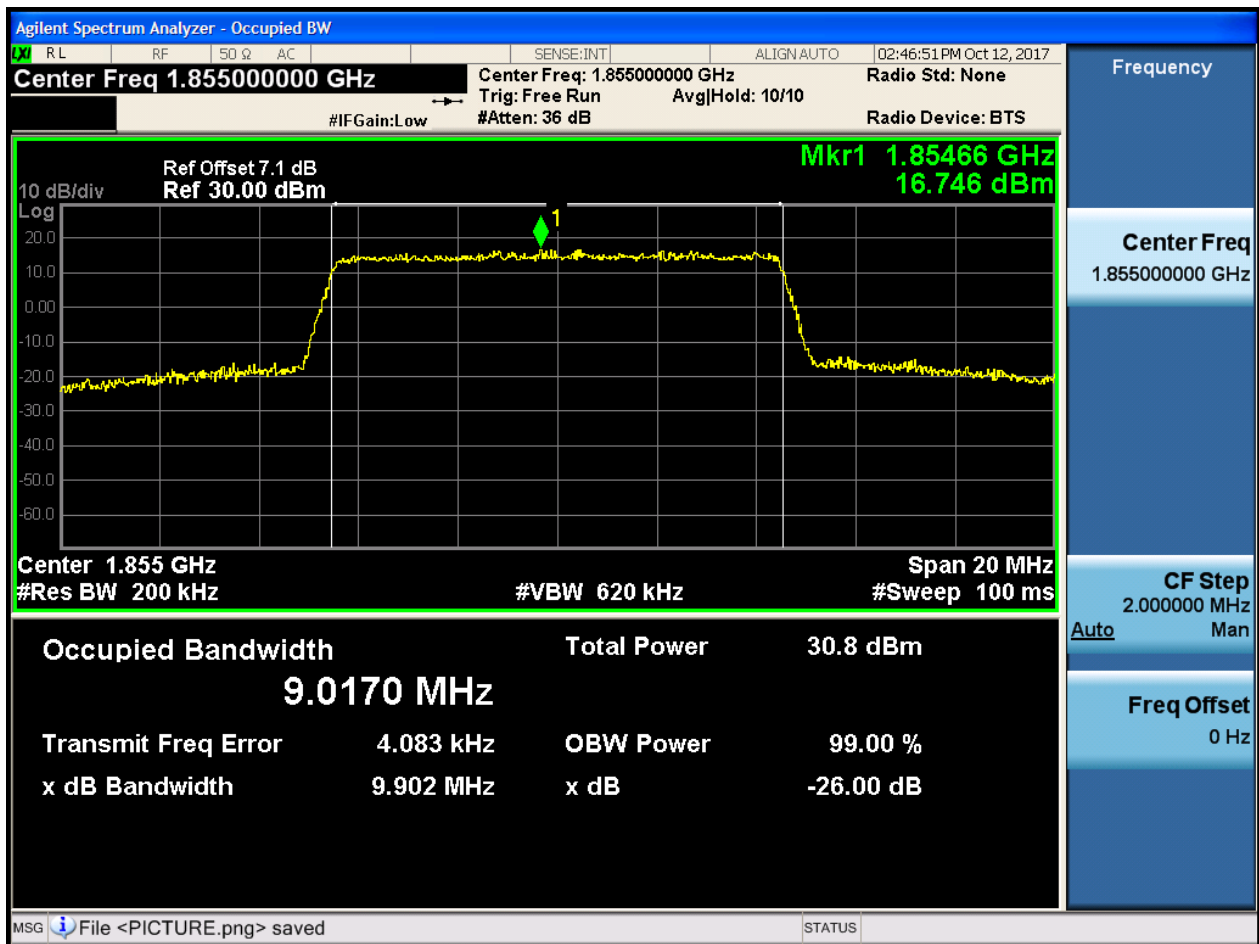




4.1.1.2.4 Test Bandwidth = 10

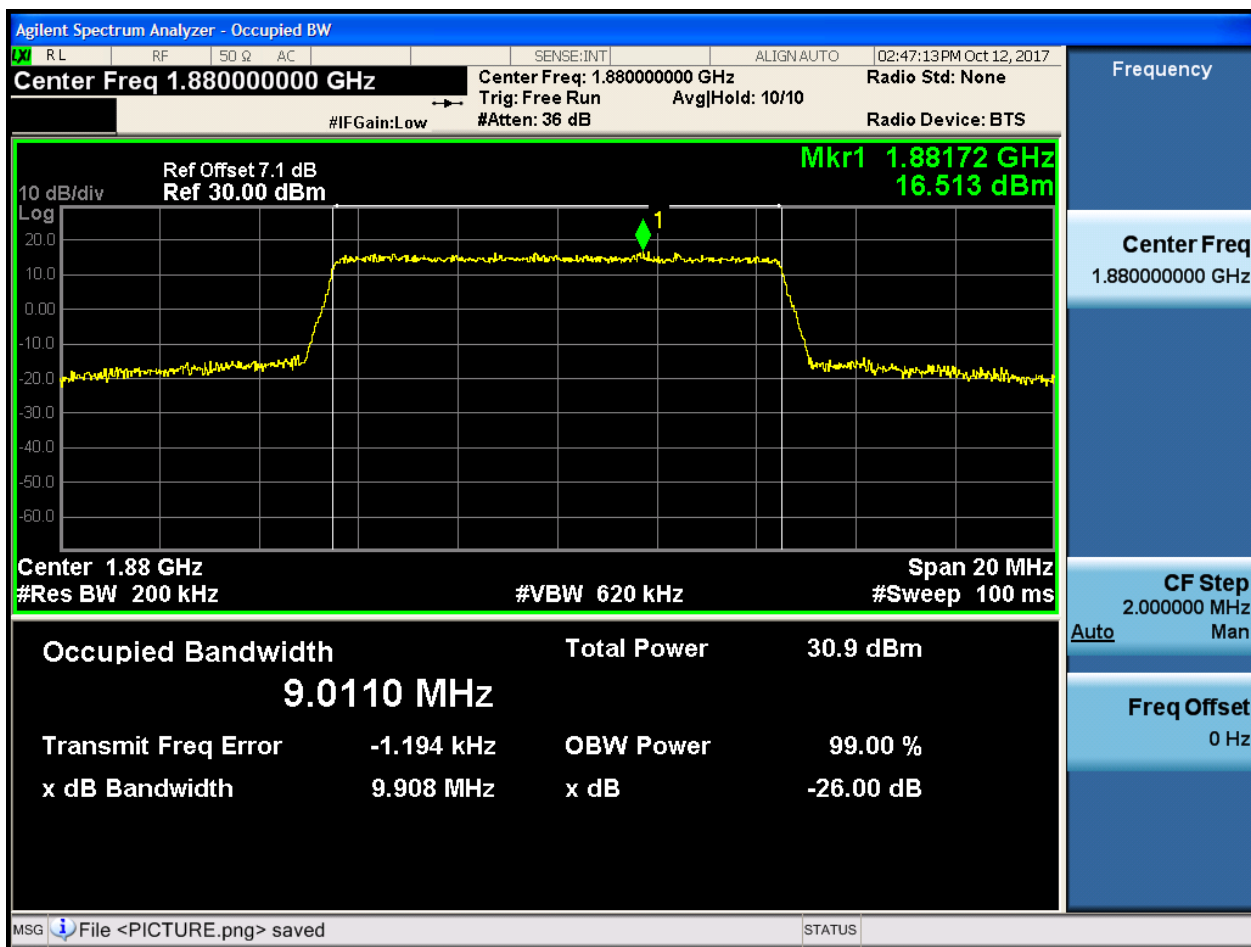
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB50#0



4.1.1.2.4.2 Test Channel = MCH

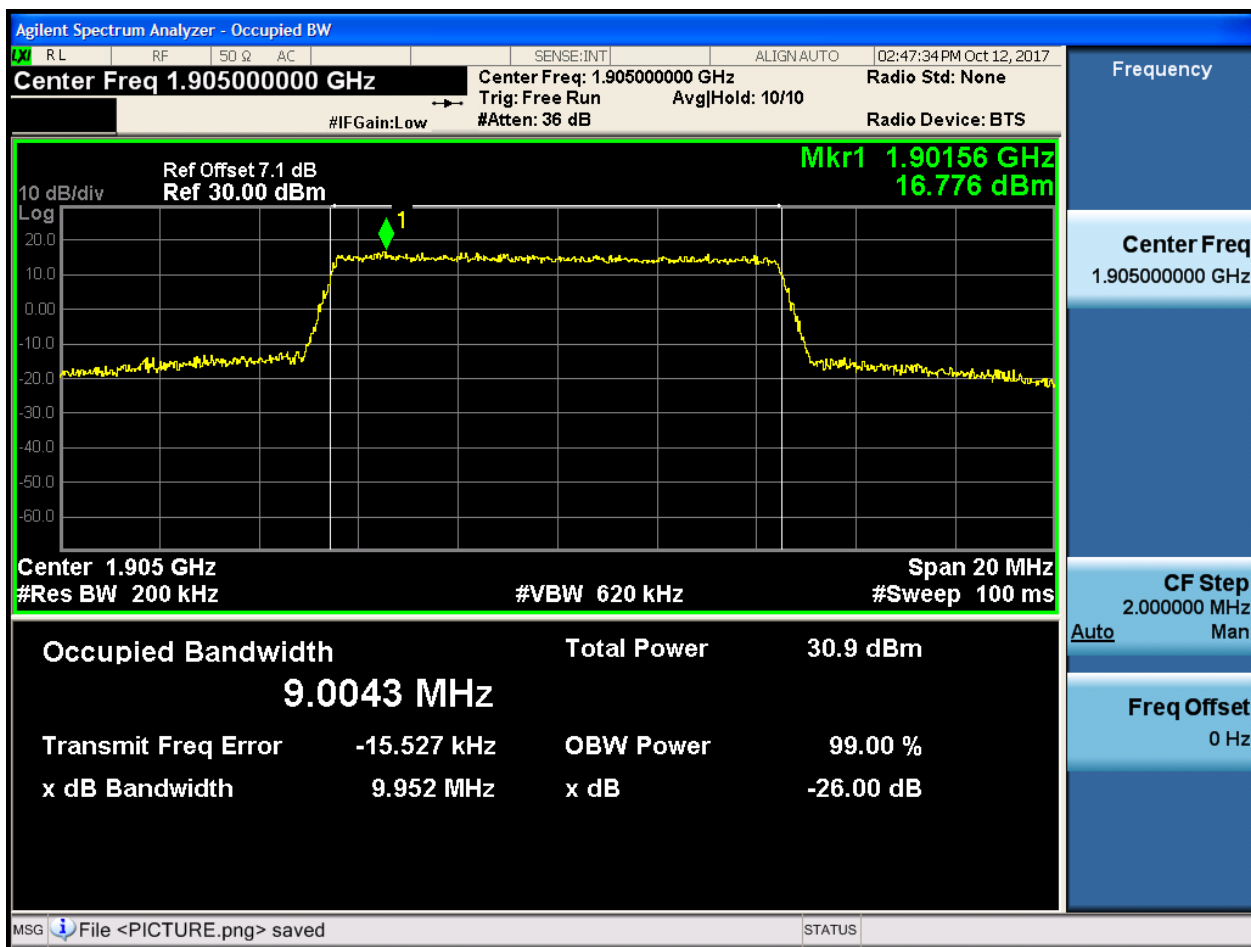
4.1.1.2.4.2.1 Test RB = RB50#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0

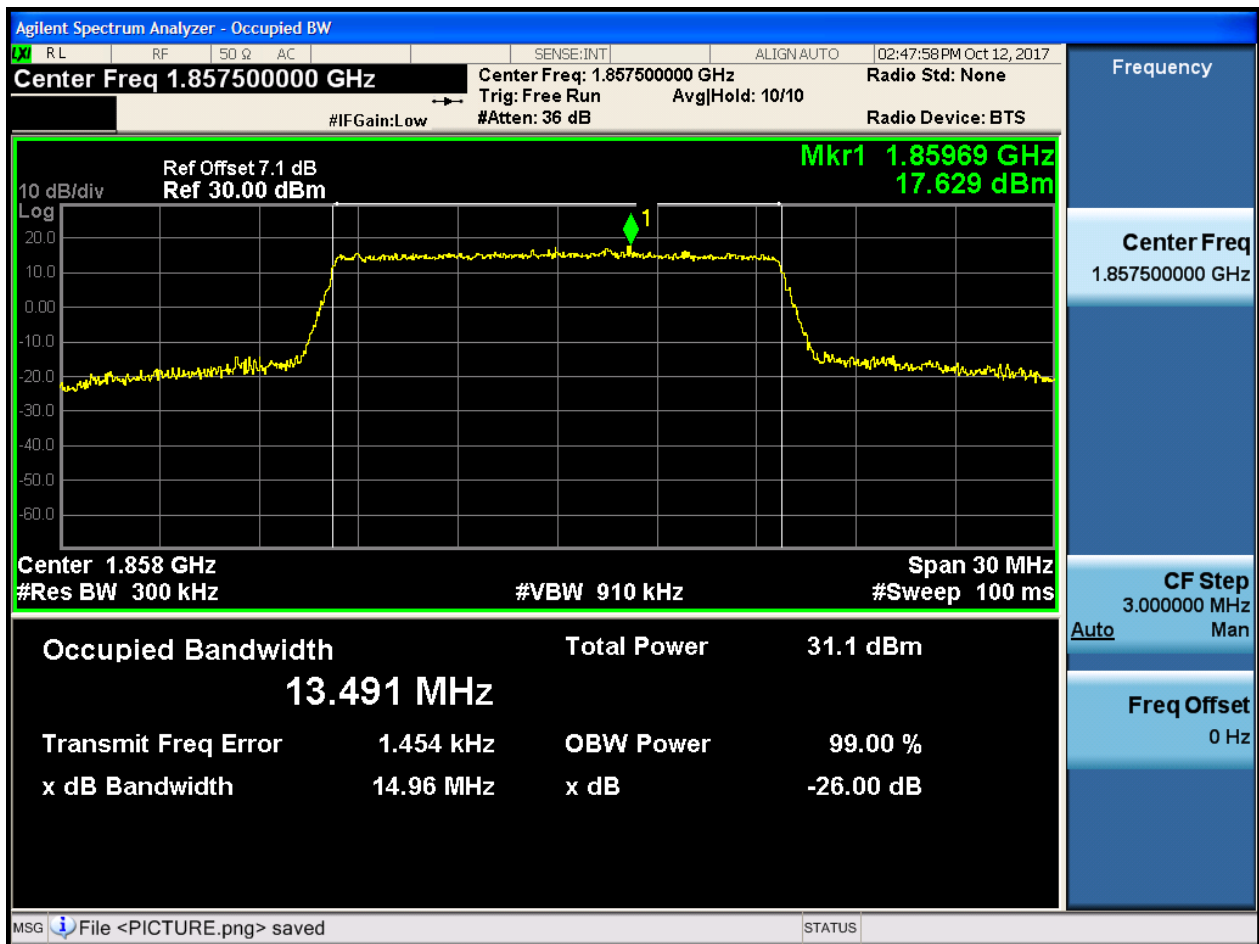




4.1.1.2.5 Test Bandwidth = 15

4.1.1.2.5.1 Test Channel = LCH

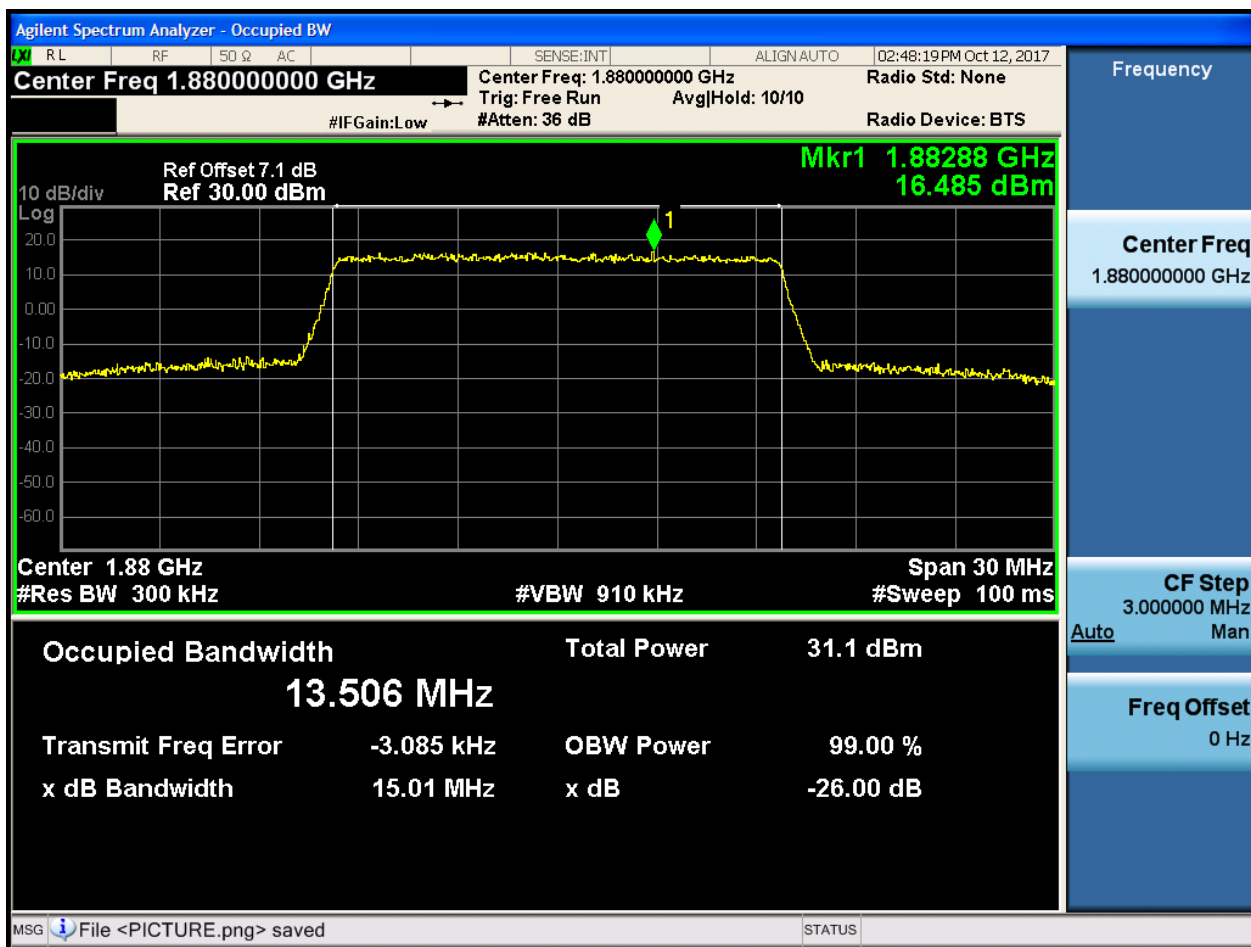
4.1.1.2.5.1.1 Test RB = RB75#0





4.1.1.2.5.2 Test Channel = MCH

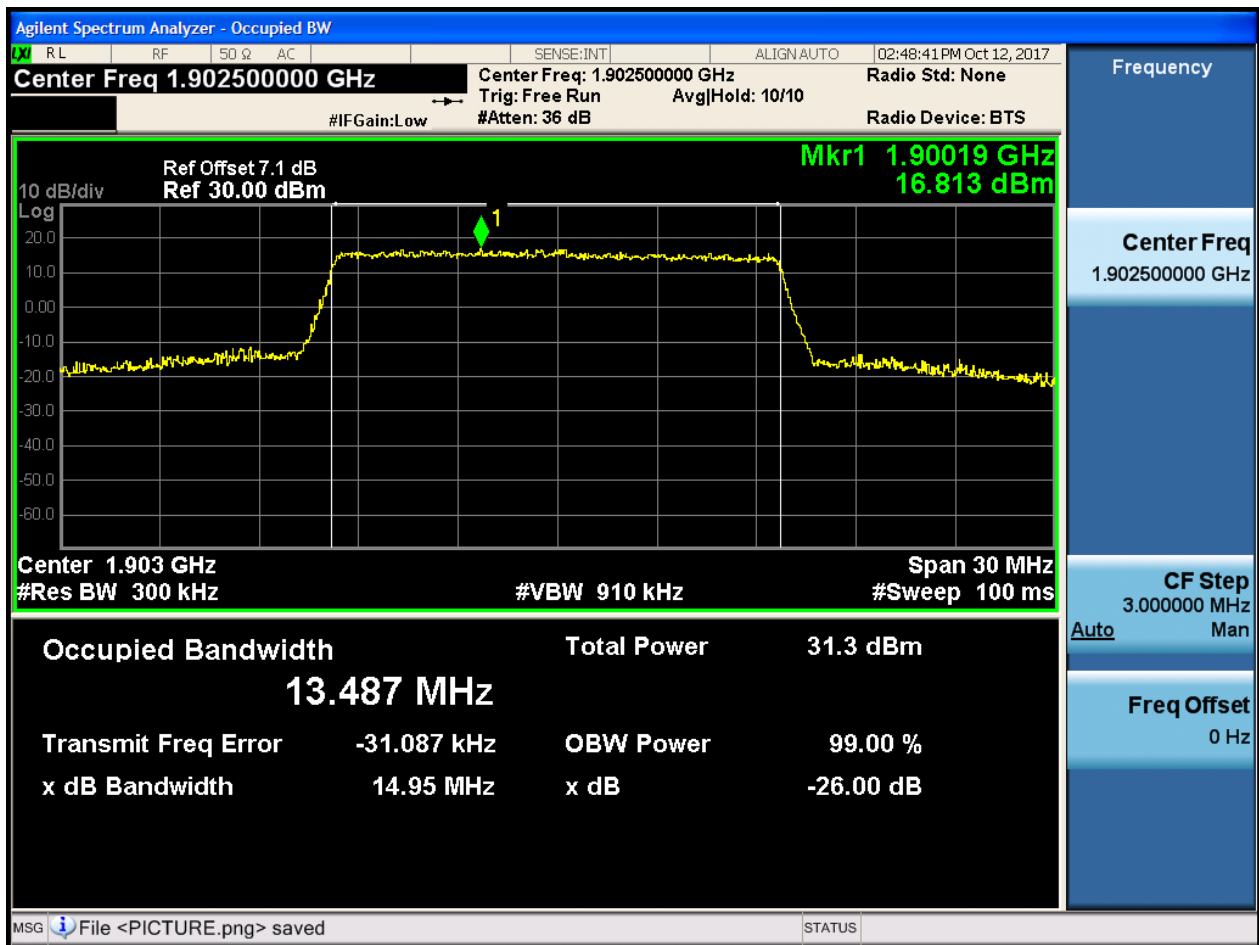
4.1.1.2.5.2.1 Test RB = RB75#0





4.1.1.2.5.3 Test Channel = HCH

4.1.1.2.5.3.1 Test RB = RB75#0

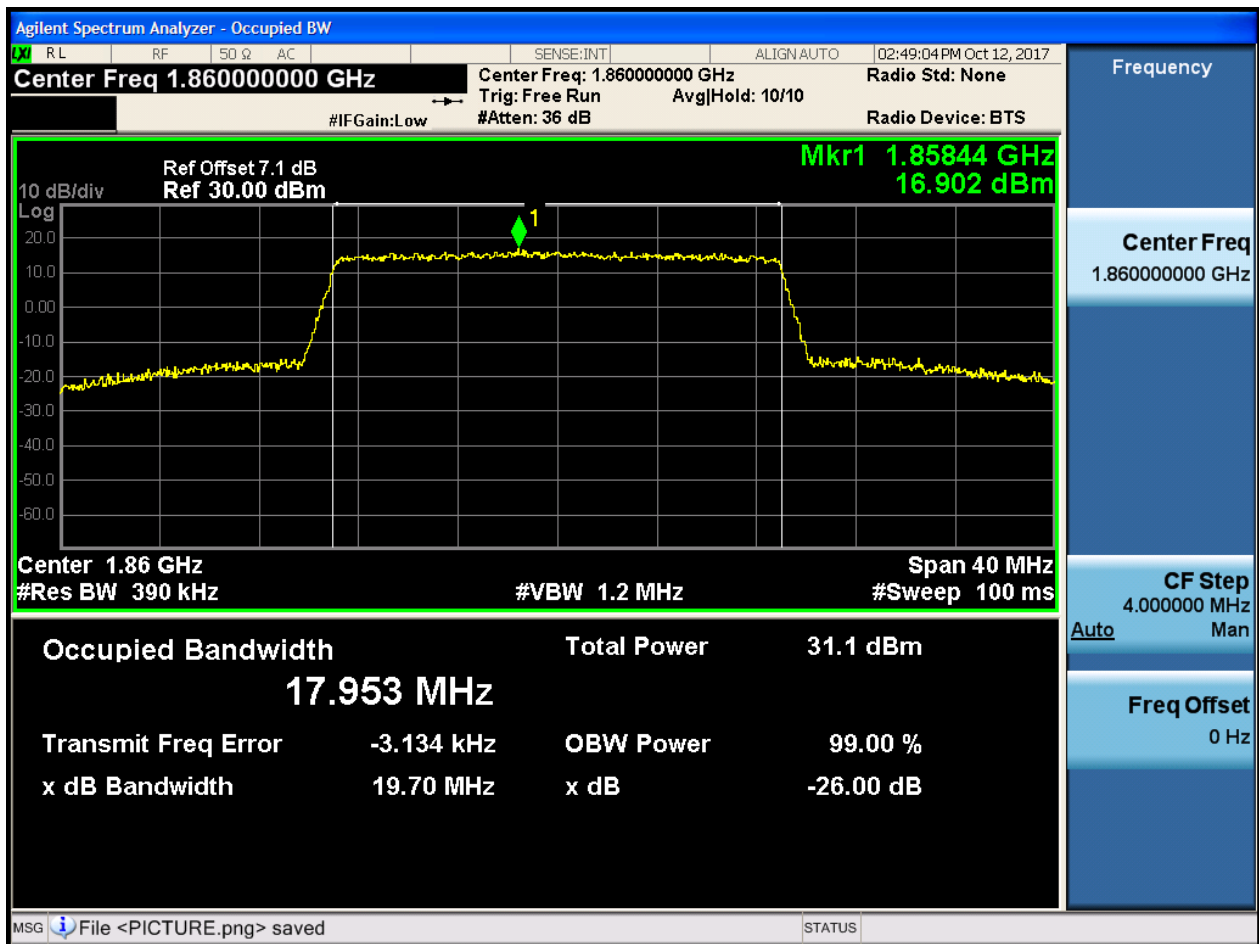




4.1.1.2.6 Test Bandwidth = 20

4.1.1.2.6.1 Test Channel = LCH

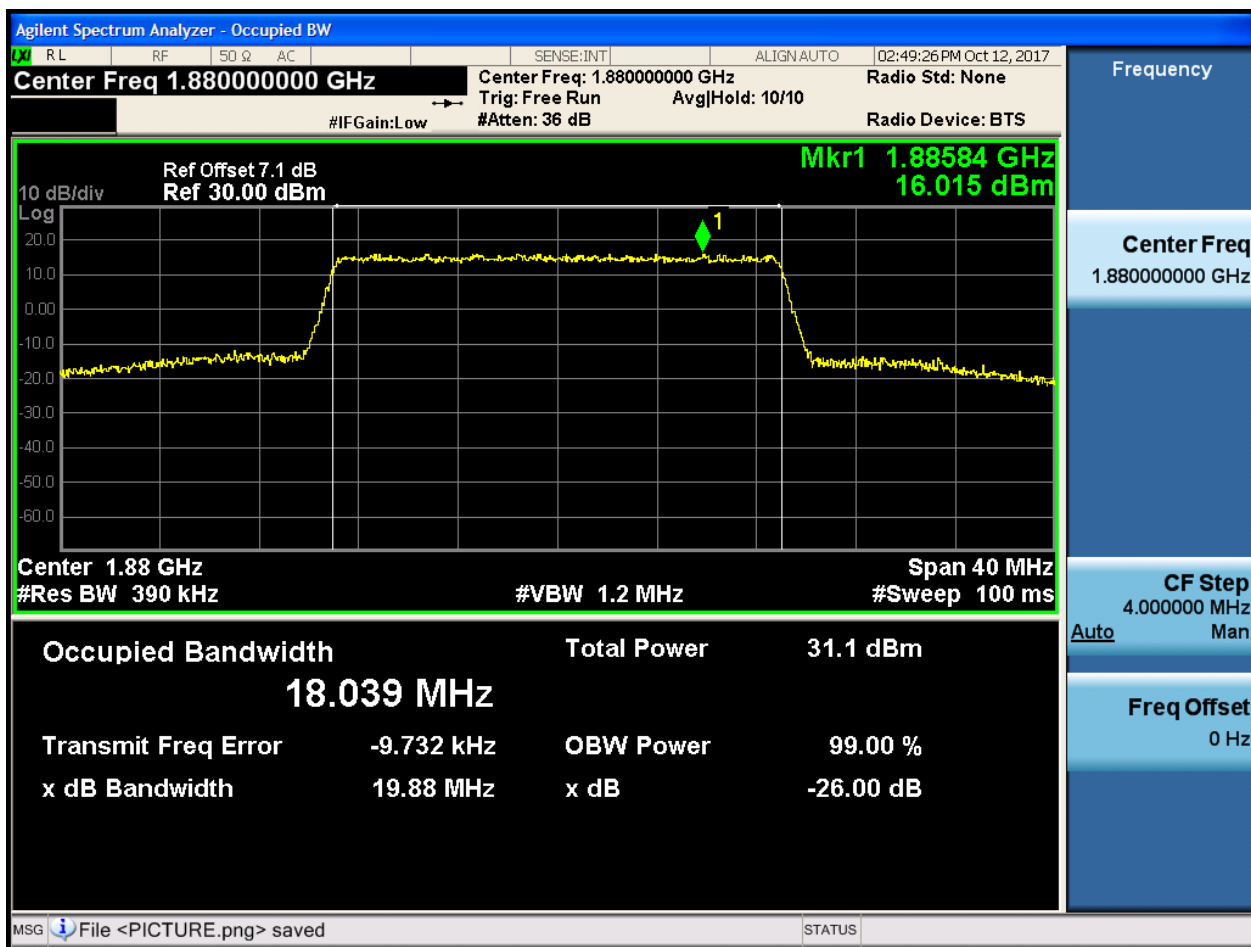
4.1.1.2.6.1.1 Test RB = RB100#0





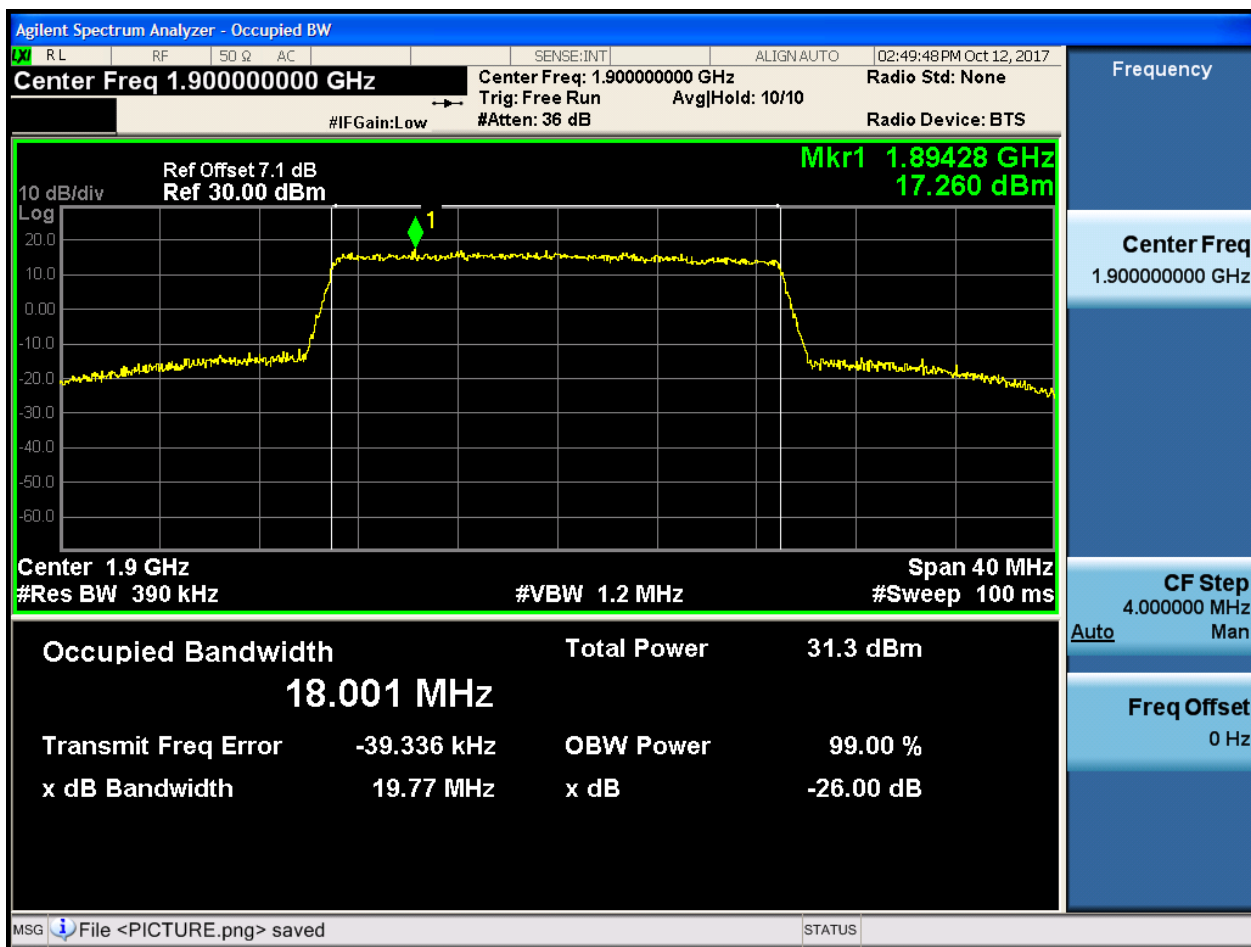
4.1.1.2.6.2 Test Channel = MCH

4.1.1.2.6.2.1 Test RB = RB100#0



4.1.1.2.6.3 Test Channel = HCH

4.1.1.2.6.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

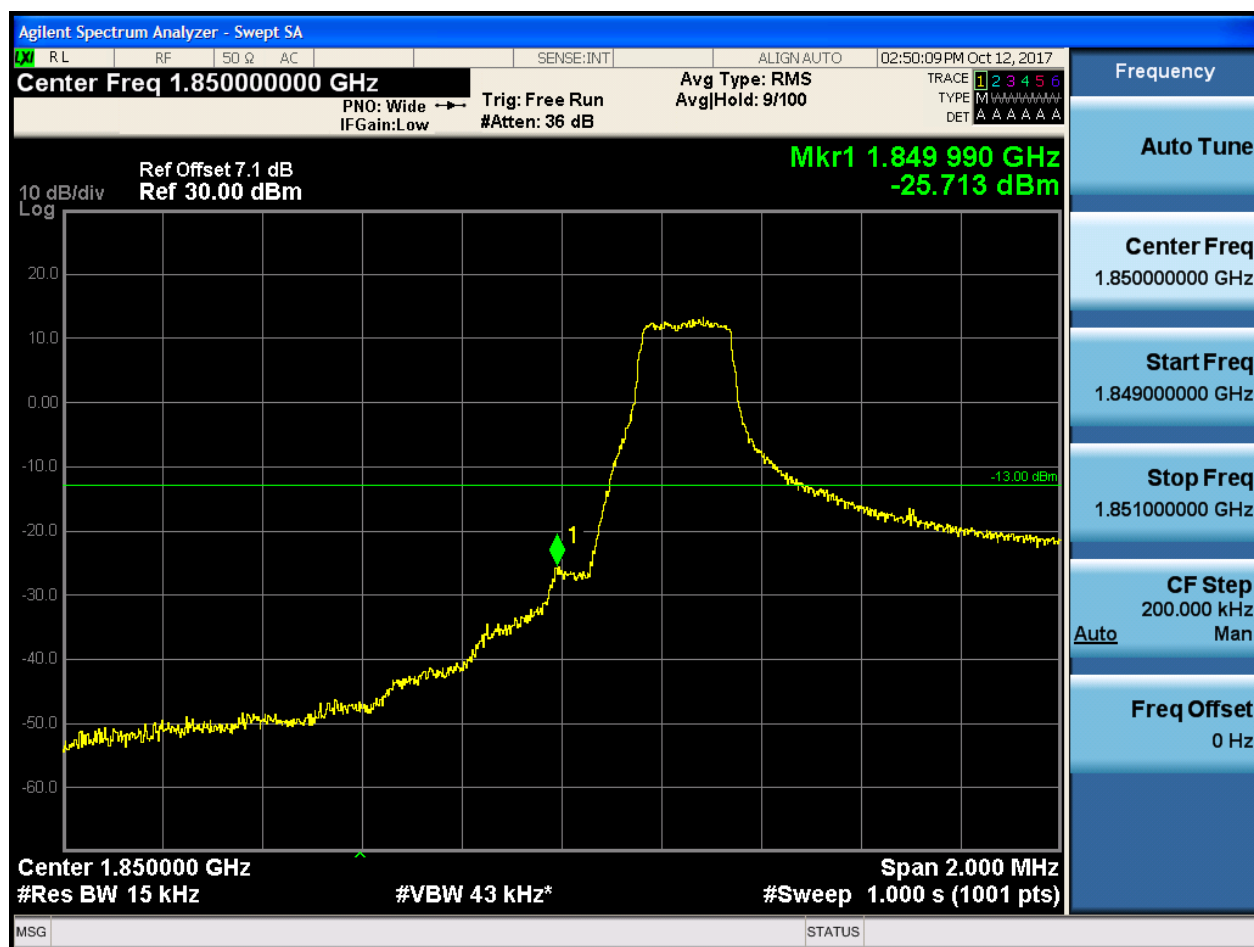
5.1.1 Test Band = BAND2

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 02:50:24 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 1.849 390 GHz
-28.416 dBm

10 dB/div
Log

Center 1.850000 GHz
#Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:50:40 PM Oct 12, 2017

Center Freq 1.850000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run AvgHold: 9/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.849 990 GHz
-30.911 dBm

10 dB/div
Log

Center 1.850000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

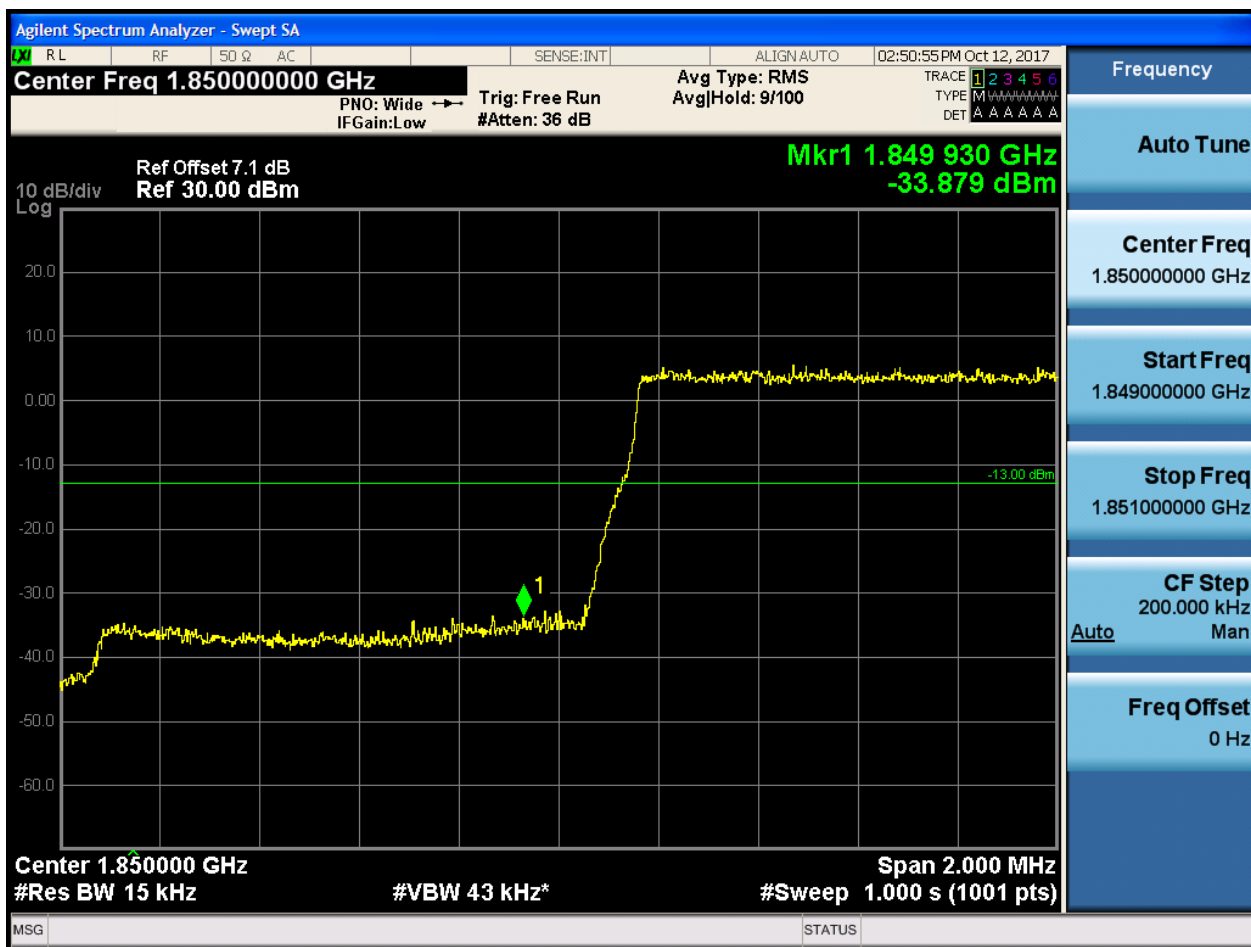
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.1.1.4 Test RB = RB6#0



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:51:32 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 1.910 000 GHz
-27.281 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

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 02:51:47 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 1.910 070 GHz
-28.771 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

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 02:52:03 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.910 040 GHz
-33.557 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

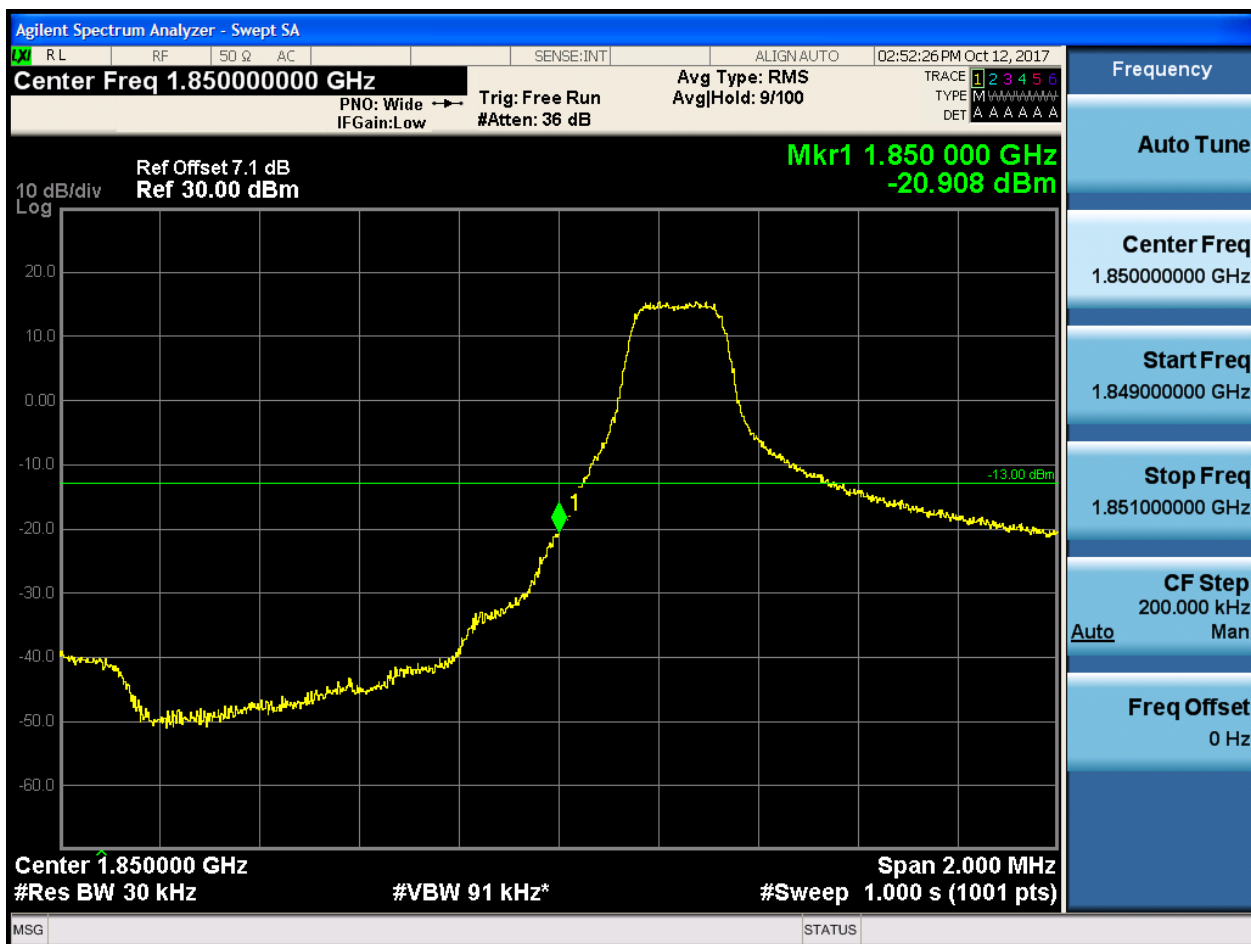
Freq Offset
0 Hz



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 02:52:41 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 1.850 000 GHz
-35.740 dBm

10 dB/div
Log

-13.00 dBm

Center 1.850000 GHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 91 kHz*

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.1.2.1.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:53:12 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 1.850 000 GHz
-31.333 dBm

10 dB/div
Log

-13.00 dBm

Center 1.850000 GHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

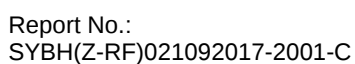
Stop Freq
1.851000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:53:49 PM Oct 12, 2017

Center Freq 1.91000000 GHz 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 1.910 000 GHz
-19.324 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 30 kHz
#VBW 91 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.2.2.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:54:19 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 1.910 000 GHz
-30.852 dBm

10 dB/div
Log

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

-13.00 dBm

Center 1.910000 GHz
#Res BW 30 kHz

#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

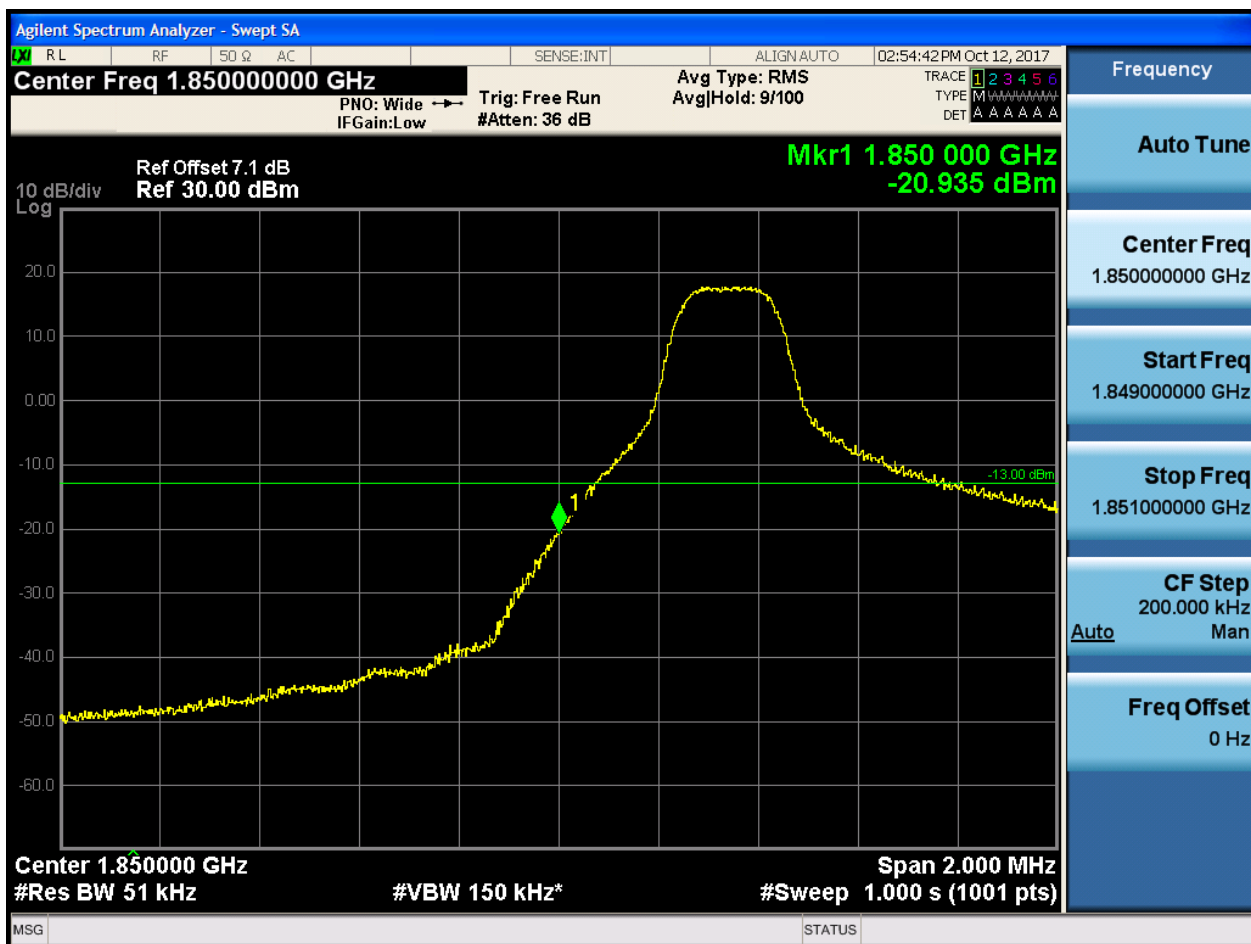
Freq Offset
0 Hz



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 02:54:57 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 1.850 000 GHz
-39.108 dBm

10 dB/div
Log

Center 1.850000 GHz
#Res BW 51 kHz #VBW 150 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

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 02:55:13 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 1.850 000 GHz
-33.675 dBm

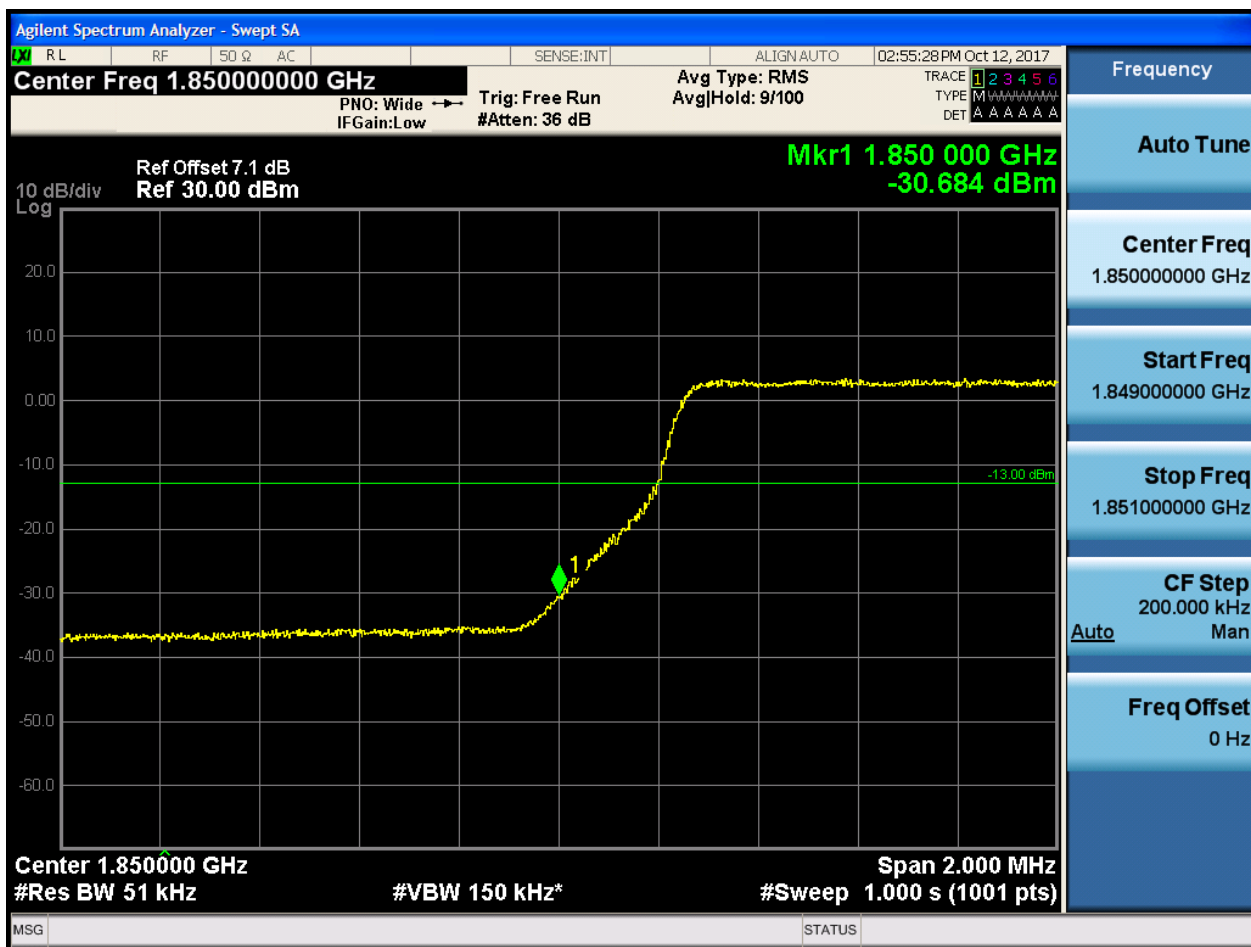
10 dB/div
Log

Center 1.850000 GHz
#Res BW 51 kHz #VBW 150 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

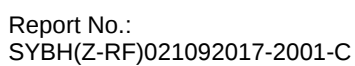


5.1.1.1.3.1.4 Test RB = RB25#0





5.1.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:56:04 PM Oct 12, 2017

Center Freq 1.91000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.910 000 GHz
-19.682 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 1.910000000 GHz
Start Freq 1.909000000 GHz
Stop Freq 1.911000000 GHz
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 02:56:19 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 1.910 030 GHz
-33.353 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:56:35 PM Oct 12, 2017

Center Freq 1.910000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#Atten: 36 dB

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

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.910 010 GHz
-30.436 dBm

10 dB/div
Log

-13.00 dBm

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

Center 1.910000 GHz
#Res BW 51 kHz

#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

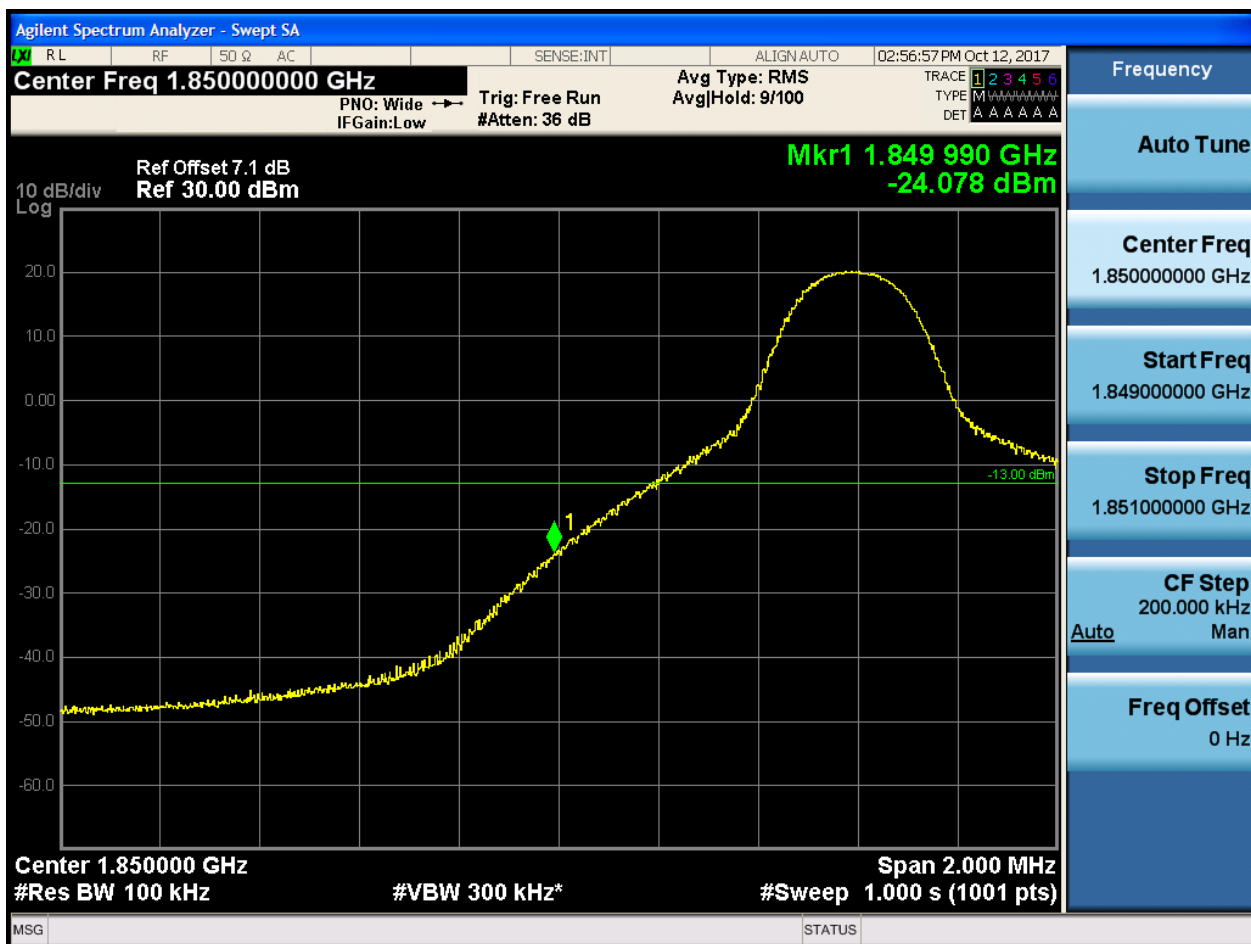
MSG STATUS



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 02:57:13 PM Oct 12, 2017

Center Freq 1.850000000 GHz Avg Type: RMS
PNO: Wide Trig: Free Run AvgHold: 6/100
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 1.850 000 GHz
-41.131 dBm

10 dB/div
Log

Center 1.85000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

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 02:57:35 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 A

Ref Offset 7.1 dB
Ref 30.00 dBm

Mkr1 1.849 990 GHz
-34.763 dBm

10 dB/div
Log

Center 1.850000 GHz
#Res BW 100 kHz #VBW 300 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.4.1.4 Test RB = RB50#0





5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:58:27 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 1.910 000 GHz
-22.442 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



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 02:59:01PM Oct 12, 2017

Center Freq 1.910000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 11/100
#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 1.910 000 GHz
-33.050 dBm

10 dB/div
Log

Center 1.910000 GHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

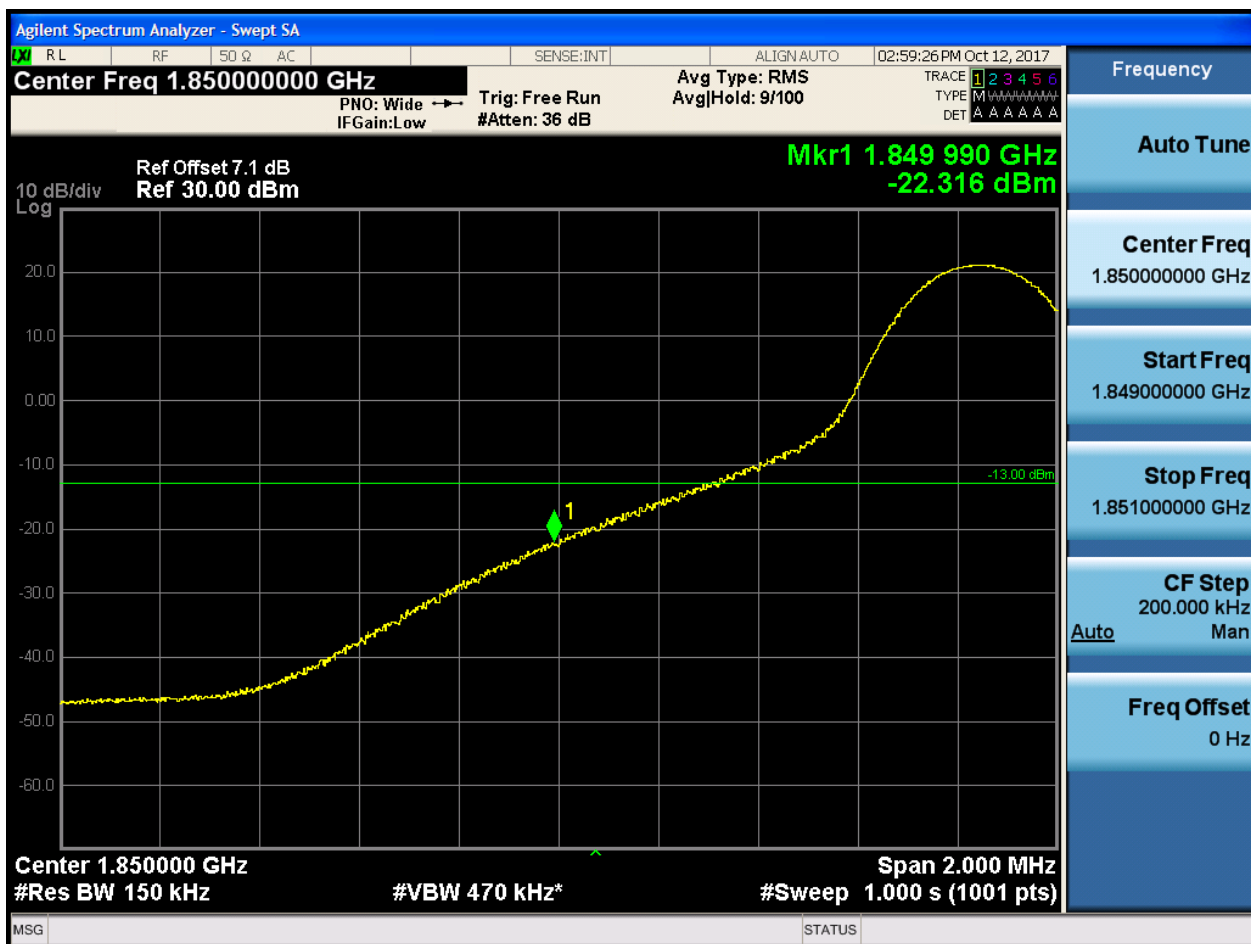
Freq Offset
0 Hz



5.1.1.1.5 Test Bandwidth = 15

5.1.1.1.5.1 Test Channel = LCH

5.1.1.1.5.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:59:45 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 1.849 990 GHz
-43.815 dBm

10 dB/div
Log

Center 1.850000 GHz
#Res BW 150 kHz
#VBW 470 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:00:04 PM Oct 12, 2017

Center Freq 1.850000000 GHz 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 7.1 dB
Ref 30.00 dBm

Mkr1 1.849 980 GHz
-34.533 dBm

10 dB/div
Log

The main display is a spectrum plot with a vertical axis from -60.0 to 20.0 dBm and a horizontal axis from 1.849 GHz to 1.851 GHz. A yellow trace shows a noisy signal level around -35 dBm. A green horizontal line is at -13.00 dBm. A green marker labeled '1' is placed on the signal trace at approximately 1.84998 GHz and -34.5 dBm.

Center 1.850000 GHz
#Res BW 150 kHz
#VBW 470 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:00:25 PM Oct 12, 2017

Center Freq 1.850000000 GHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#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 1.850 000 GHz
-31.663 dBm

10 dB/div
Log

Center 1.850000 GHz Span 2.000 MHz
#Res BW 150 kHz #VBW 470 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.850000000 GHz

Start Freq
1.849000000 GHz

Stop Freq
1.851000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.5.2 Test Channel = HCH

5.1.1.1.5.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 1.910000000 GHz

Ref Offset 7.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 1.910 000 GHz
-21.636 dBm

Center 1.910000 GHz
#Res BW 150 kHz
#VBW 470 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

[X] RL	RF	50 Ω AC		SENSE:INT	ALIGN AUTO	03:01:21PM Oct 12, 2017
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Center Freq 1.910000000 GHz Avg Type: RMS
PNO: Wide → Trig: Free Run AvgHold: 9/100
IFGain:Low #Atten: 36 dB

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

Mkr1 1.910 000 GHz
-33.242 dBm

Ref Offset 7.1 dB
Ref 30.00 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 1.910000 GHz Span 2.000 MHz
#Res BW 150 kHz #VBW 470 kHz* #Sweep 1.000 s (1001 pts)

Frequency	
Auto Tune	
Center Freq	1.910000000 GHz
Start Freq	1.909000000 GHz
Stop Freq	1.911000000 GHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 03:01:36 PM Oct 12, 2017

Center Freq 1.910000000 GHz 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 1.910 010 GHz
-31.981 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

1

Center 1.910000 GHz
#Res BW 150 kHz

#VBW 470 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
1.910000000 GHz

Start Freq
1.909000000 GHz

Stop Freq
1.911000000 GHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.6 Test Bandwidth = 20

5.1.1.1.6.1 Test Channel = LCH

5.1.1.1.6.1.1 Test RB = RB1#0

