



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
BAND7	LTE/TM1	5	LCH	RB1#0	22.41	24.21	33	PASS
				RB1#13	22.96	24.76	33	PASS
				RB1#24	22.18	23.98	33	PASS
				RB12#0	22.02	23.82	33	PASS
				RB12#6	22.04	23.84	33	PASS
				RB12#13	21.9	23.7	33	PASS
				RB25#0	21.96	23.76	33	PASS
			MCH	RB1#0	22.72	24.52	33	PASS
				RB1#13	23.13	24.93	33	PASS
				RB1#24	22.5	24.3	33	PASS
				RB12#0	22.17	23.97	33	PASS
				RB12#6	22.25	24.05	33	PASS
				RB12#13	22.03	23.83	33	PASS
				RB25#0	22.05	23.85	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.56	24.36	33	PASS
				RB1#13	22.73	24.53	33	PASS
				RB1#24	22.44	24.24	33	PASS
				RB12#0	21.89	23.69	33	PASS
				RB12#6	21.9	23.7	33	PASS
				RB12#13	21.76	23.56	33	PASS
				RB25#0	21.83	23.63	33	PASS
		10	LCH	RB1#0	22.52	24.32	33	PASS
				RB1#25	22.87	24.67	33	PASS
				RB1#49	22.25	24.05	33	PASS
				RB25#0	21.95	23.75	33	PASS
				RB25#13	21.87	23.67	33	PASS
				RB25#25	21.81	23.61	33	PASS
				RB50#0	21.92	23.72	33	PASS
			MCH	RB1#0	22.72	24.52	33	PASS
				RB1#25	23.09	24.89	33	PASS
				RB1#49	22.67	24.47	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	22.12	23.92	33	PASS
				RB25#13	22.08	23.88	33	PASS
				RB25#25	22.1	23.9	33	PASS
				RB50#0	22.02	23.82	33	PASS
			HCH	RB1#0	22.52	24.32	33	PASS
				RB1#25	22.7	24.5	33	PASS
				RB1#49	22.6	24.4	33	PASS
				RB25#0	21.82	23.62	33	PASS
				RB25#13	21.76	23.56	33	PASS
				RB25#25	21.79	23.59	33	PASS
				RB50#0	21.77	23.57	33	PASS
		15	LCH	RB1#0	22.43	24.23	33	PASS
				RB1#38	22.82	24.62	33	PASS
				RB1#74	22.49	24.29	33	PASS
				RB36#0	21.98	23.78	33	PASS
				RB36#18	21.96	23.76	33	PASS
				RB36#39	21.77	23.57	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.85	23.65	33	PASS
			MCH	RB1#0	22.54	24.34	33	PASS
				RB1#38	23.09	24.89	33	PASS
				RB1#74	22.64	24.44	33	PASS
				RB36#0	22.12	23.92	33	PASS
				RB36#18	22.18	23.98	33	PASS
				RB36#39	22.08	23.88	33	PASS
				RB75#0	22.07	23.87	33	PASS
			HCH	RB1#0	22.55	24.35	33	PASS
				RB1#38	22.6	24.4	33	PASS
				RB1#74	22.58	24.38	33	PASS
				RB36#0	21.87	23.67	33	PASS
				RB36#18	21.89	23.69	33	PASS
				RB36#39	21.77	23.57	33	PASS
				RB75#0	21.93	23.73	33	PASS
		20	LCH	RB1#0	21.97	23.77	33	PASS
				RB1#50	22.8	24.6	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.79	24.59	33	PASS
				RB50#0	22.09	23.89	33	PASS
				RB50#25	21.85	23.65	33	PASS
				RB50#50	21.77	23.57	33	PASS
				RB100#0	21.99	23.79	33	PASS
			MCH	RB1#0	22.94	24.74	33	PASS
				RB1#50	23.14	24.94	33	PASS
				RB1#99	23.12	24.92	33	PASS
				RB50#0	22.03	23.83	33	PASS
				RB50#25	22.12	23.92	33	PASS
				RB50#50	22.14	23.94	33	PASS
				RB100#0	22.13	23.93	33	PASS
			HCH	RB1#0	22.78	24.58	33	PASS
				RB1#50	22.63	24.43	33	PASS
				RB1#99	22.81	24.61	33	PASS
				RB50#0	22.18	23.98	33	PASS
				RB50#25	22.1	23.9	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.91	23.71	33	PASS
				RB100#0	22.18	23.98	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.85	23.65	33	PASS
				RB1#13	22.31	24.11	33	PASS
				RB1#24	21.7	23.5	33	PASS
				RB12#0	21.2	23	33	PASS
				RB12#6	21.22	23.02	33	PASS
				RB12#13	21	22.8	33	PASS
				RB25#0	21.05	22.85	33	PASS
			MCH	RB1#0	22.19	23.99	33	PASS
				RB1#13	22.44	24.24	33	PASS
				RB1#24	21.93	23.73	33	PASS
				RB12#0	21.18	22.98	33	PASS
				RB12#6	21.26	23.06	33	PASS
				RB12#13	21.1	22.9	33	PASS
				RB25#0	21.13	22.93	33	PASS
			HCH	RB1#0	22.05	23.85	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	22.24	24.04	33	PASS
				RB1#24	21.94	23.74	33	PASS
				RB12#0	21.1	22.9	33	PASS
				RB12#6	21.13	22.93	33	PASS
				RB12#13	20.98	22.78	33	PASS
				RB25#0	21.02	22.82	33	PASS
		10	LCH	RB1#0	21.69	23.49	33	PASS
				RB1#25	22.1	23.9	33	PASS
				RB1#49	21.62	23.42	33	PASS
				RB25#0	21.05	22.85	33	PASS
				RB25#13	20.97	22.77	33	PASS
				RB25#25	20.92	22.72	33	PASS
				RB50#0	20.99	22.79	33	PASS
			MCH	RB1#0	21.83	23.63	33	PASS
				RB1#25	22.23	24.03	33	PASS
				RB1#49	21.83	23.63	33	PASS
				RB25#0	21.13	22.93	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	21.1	22.9	33	PASS
				RB25#25	21.11	22.91	33	PASS
				RB50#0	21.01	22.81	33	PASS
			HCH	RB1#0	21.74	23.54	33	PASS
				RB1#25	22.03	23.83	33	PASS
				RB1#49	21.91	23.71	33	PASS
				RB25#0	20.96	22.76	33	PASS
				RB25#13	20.96	22.76	33	PASS
				RB25#25	20.96	22.76	33	PASS
				RB50#0	20.96	22.76	33	PASS
		15	LCH	RB1#0	21.59	23.39	33	PASS
				RB1#38	21.96	23.76	33	PASS
				RB1#74	21.61	23.41	33	PASS
				RB36#0	21.04	22.84	33	PASS
				RB36#18	21.03	22.83	33	PASS
				RB36#39	20.84	22.64	33	PASS
				RB75#0	20.92	22.72	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.85	23.65	33	PASS
				RB1#38	22.37	24.17	33	PASS
				RB1#74	22.09	23.89	33	PASS
				RB36#0	21.11	22.91	33	PASS
				RB36#18	21.16	22.96	33	PASS
				RB36#39	21.11	22.91	33	PASS
				RB75#0	21.02	22.82	33	PASS
			HCH	RB1#0	21.68	23.48	33	PASS
				RB1#38	22.11	23.91	33	PASS
				RB1#74	21.88	23.68	33	PASS
				RB36#0	20.95	22.75	33	PASS
				RB36#18	20.97	22.77	33	PASS
				RB36#39	20.96	22.76	33	PASS
				RB75#0	21.07	22.87	33	PASS
		20	LCH	RB1#0	22.2	24	33	PASS
				RB1#50	22.29	24.09	33	PASS
				RB1#99	22.36	24.16	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	21.17	22.97	33	PASS
				RB50#25	20.94	22.74	33	PASS
				RB50#50	20.82	22.62	33	PASS
				RB100#0	21.06	22.86	33	PASS
			MCH	RB1#0	22.22	24.02	33	PASS
				RB1#50	22.54	24.34	33	PASS
				RB1#99	22.51	24.31	33	PASS
				RB50#0	21.06	22.86	33	PASS
				RB50#25	21.12	22.92	33	PASS
				RB50#50	21.14	22.94	33	PASS
				RB100#0	21.1	22.9	33	PASS
			HCH	RB1#0	22	23.8	33	PASS
				RB1#50	22.07	23.87	33	PASS
				RB1#99	22.27	24.07	33	PASS
				RB50#0	21.26	23.06	33	PASS
				RB50#25	21.16	22.96	33	PASS
				RB50#50	21.02	22.82	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	21.21	23.01	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:

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

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

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

SET Sweep time=auto-couple.

Detector:RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	4.6	13	PASS
				RB1#13	4.56	13	PASS
				RB1#24	4.78	13	PASS
				RB12#0	5.64	13	PASS
				RB12#6	5.63	13	PASS
				RB12#13	5.77	13	PASS
				RB25#0	5.75	13	PASS
			MCH	RB1#0	4.62	13	PASS
				RB1#13	4.57	13	PASS
				RB1#24	4.76	13	PASS
				RB12#0	5.68	13	PASS
				RB12#6	5.63	13	PASS
				RB12#13	5.68	13	PASS
				RB25#0	6	13	PASS
			HCH	RB1#0	4.68	13	PASS
				RB1#13	4.53	13	PASS
				RB1#24	4.75	13	PASS
				RB12#0	5.53	13	PASS
				RB12#6	5.49	13	PASS
				RB12#13	5.53	13	PASS
				RB25#0	5.67	13	PASS
		10	LCH	RB1#0	4.6	13	PASS
				RB1#25	4.62	13	PASS
				RB1#49	4.87	13	PASS
				RB25#0	5.82	13	PASS
				RB25#13	5.85	13	PASS
				RB25#25	5.98	13	PASS
				RB50#0	5.95	13	PASS
			MCH	RB1#0	4.61	13	PASS
				RB1#25	4.51	13	PASS
				RB1#49	4.71	13	PASS
				RB25#0	5.68	13	PASS
				RB25#13	5.7	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.78	13	PASS
				RB50#0	5.97	13	PASS
			HCH	RB1#0	4.65	13	PASS
				RB1#25	4.49	13	PASS
				RB1#49	4.57	13	PASS
				RB25#0	5.64	13	PASS
				RB25#13	5.54	13	PASS
				RB25#25	5.7	13	PASS
				RB50#0	5.84	13	PASS
		15	LCH	RB1#0	4.9	13	PASS
				RB1#38	5.04	13	PASS
				RB1#74	5.25	13	PASS
				RB36#0	5.89	13	PASS
				RB36#18	5.96	13	PASS
				RB36#39	6.09	13	PASS
				RB75#0	6.36	13	PASS
			MCH	RB1#0	4.93	13	PASS
				RB1#38	4.58	13	PASS
				RB1#74	4.96	13	PASS
				RB36#0	5.98	13	PASS
				RB36#18	5.71	13	PASS
				RB36#39	5.9	13	PASS
				RB75#0	6.13	13	PASS
			HCH	RB1#0	5.22	13	PASS
				RB1#38	4.92	13	PASS
				RB1#74	4.95	13	PASS
				RB36#0	5.93	13	PASS
				RB36#18	5.75	13	PASS
				RB36#39	5.85	13	PASS
				RB75#0	6.09	13	PASS
		20	LCH	RB1#0	4.7	13	PASS
				RB1#50	5	13	PASS
				RB1#99	5.13	13	PASS
				RB50#0	5.93	13	PASS
				RB50#25	6.12	13	PASS
				RB50#50	6.08	13	PASS
				RB100#0	6.18	13	PASS
			MCH	RB1#0	4.95	13	PASS
				RB1#50	4.65	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.92	13	PASS
				RB50#0	5.89	13	PASS
				RB50#25	5.8	13	PASS
				RB50#50	5.9	13	PASS
				RB100#0	6.41	13	PASS
			HCH	RB1#0	4.93	13	PASS
				RB1#50	4.54	13	PASS
				RB1#99	4.59	13	PASS
				RB50#0	5.91	13	PASS
				RB50#25	5.71	13	PASS
				RB50#50	5.77	13	PASS
				RB100#0	6.27	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.31	13	PASS
				RB1#13	5.17	13	PASS
				RB1#24	5.53	13	PASS
				RB12#0	6.35	13	PASS
				RB12#6	6.27	13	PASS
				RB12#13	6.55	13	PASS
				RB25#0	6.76	13	PASS
			MCH	RB1#0	5.54	13	PASS
				RB1#13	5.27	13	PASS
				RB1#24	5.48	13	PASS
				RB12#0	6.39	13	PASS
				RB12#6	6.4	13	PASS
				RB12#13	6.49	13	PASS
				RB25#0	6.81	13	PASS
			HCH	RB1#0	5.39	13	PASS
				RB1#13	5.37	13	PASS
				RB1#24	5.44	13	PASS
				RB12#0	6.13	13	PASS
				RB12#6	5.98	13	PASS
				RB12#13	6.12	13	PASS
				RB25#0	6.43	13	PASS
		10	LCH	RB1#0	5.28	13	PASS
				RB1#25	5.45	13	PASS
				RB1#49	5.77	13	PASS
				RB25#0	6.54	13	PASS
				RB25#13	6.66	13	PASS
				RB25#25	6.7	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.89	13	PASS
				RB1#0	5.51	13	PASS
			MCH	RB1#25	5.23	13	PASS
				RB1#49	5.41	13	PASS
				RB25#0	6.57	13	PASS
				RB25#13	6.47	13	PASS
				RB25#25	6.48	13	PASS
				RB50#0	6.77	13	PASS
			HCH	RB1#0	5.64	13	PASS
				RB1#25	5.55	13	PASS
				RB1#49	5.54	13	PASS
				RB25#0	6.31	13	PASS
				RB25#13	6.39	13	PASS
				RB25#25	6.3	13	PASS
				RB50#0	6.72	13	PASS
		15	LCH	RB1#0	5.68	13	PASS
				RB1#38	5.68	13	PASS
				RB1#74	5.85	13	PASS
				RB36#0	6.63	13	PASS
				RB36#18	6.76	13	PASS
				RB36#39	6.76	13	PASS
				RB75#0	7.22	13	PASS
			MCH	RB1#0	5.82	13	PASS
				RB1#38	5.26	13	PASS
				RB1#74	5.57	13	PASS
				RB36#0	6.67	13	PASS
				RB36#18	6.65	13	PASS
				RB36#39	6.64	13	PASS
				RB75#0	6.99	13	PASS
			HCH	RB1#0	5.8	13	PASS
				RB1#38	5.52	13	PASS
				RB1#74	5.52	13	PASS
				RB36#0	6.64	13	PASS
				RB36#18	6.47	13	PASS
				RB36#39	6.4	13	PASS
				RB75#0	6.98	13	PASS
		20	LCH	RB1#0	4.96	13	PASS
				RB1#50	5.15	13	PASS
				RB1#99	5.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.65	13	PASS
				RB50#25	6.87	13	PASS
				RB50#50	6.79	13	PASS
				RB100#0	7.29	13	PASS
			MCH	RB1#0	5.5	13	PASS
				RB1#50	4.86	13	PASS
				RB1#99	5.19	13	PASS
				RB50#0	6.82	13	PASS
				RB50#25	6.6	13	PASS
				RB50#50	6.7	13	PASS
				RB100#0	7.04	13	PASS
			HCH	RB1#0	5.63	13	PASS
				RB1#50	5.28	13	PASS
				RB1#99	5.35	13	PASS
				RB50#0	6.64	13	PASS
				RB50#25	6.38	13	PASS
				RB50#50	6.32	13	PASS
				RB100#0	7	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

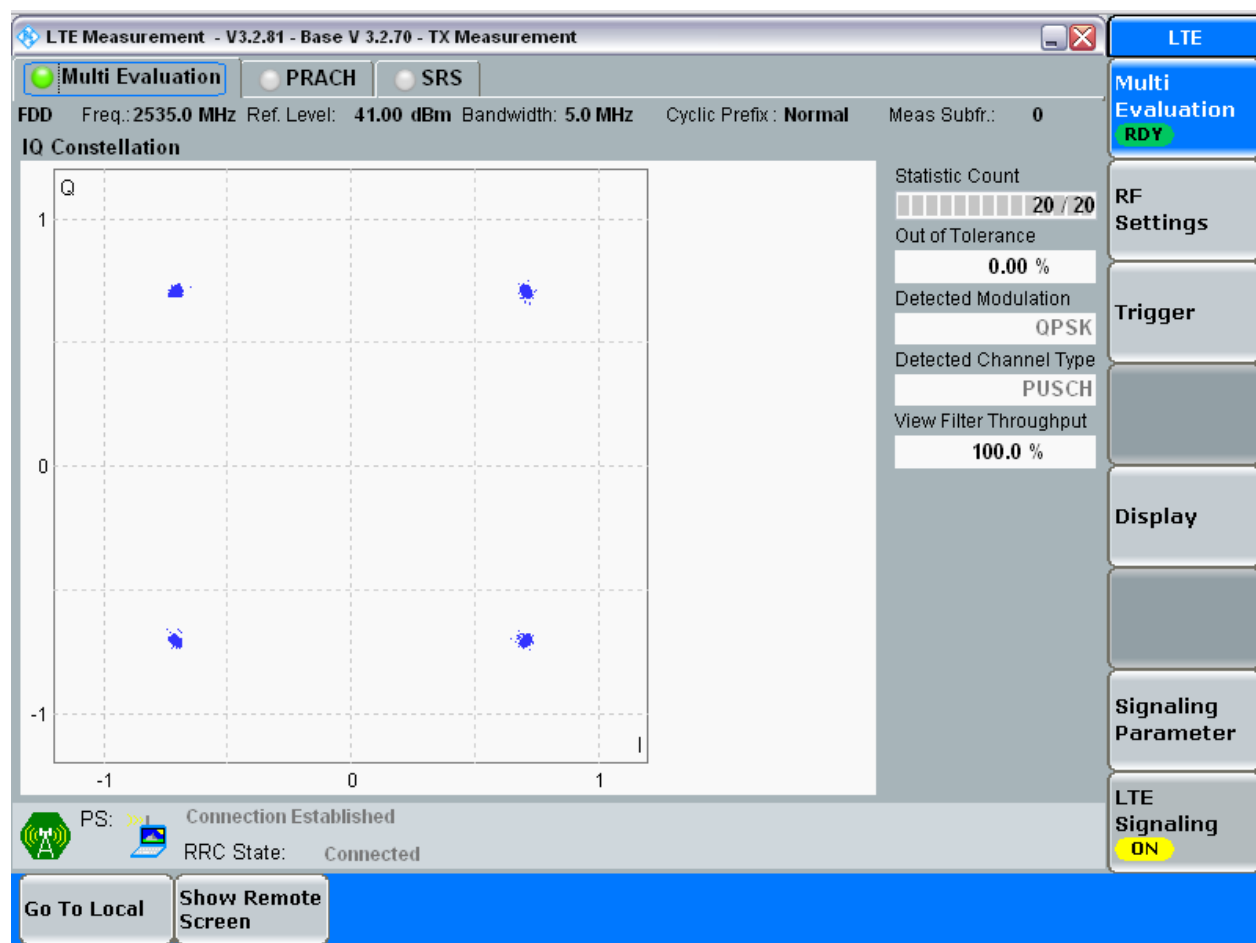
3.1.1 Test Band = BAND7

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

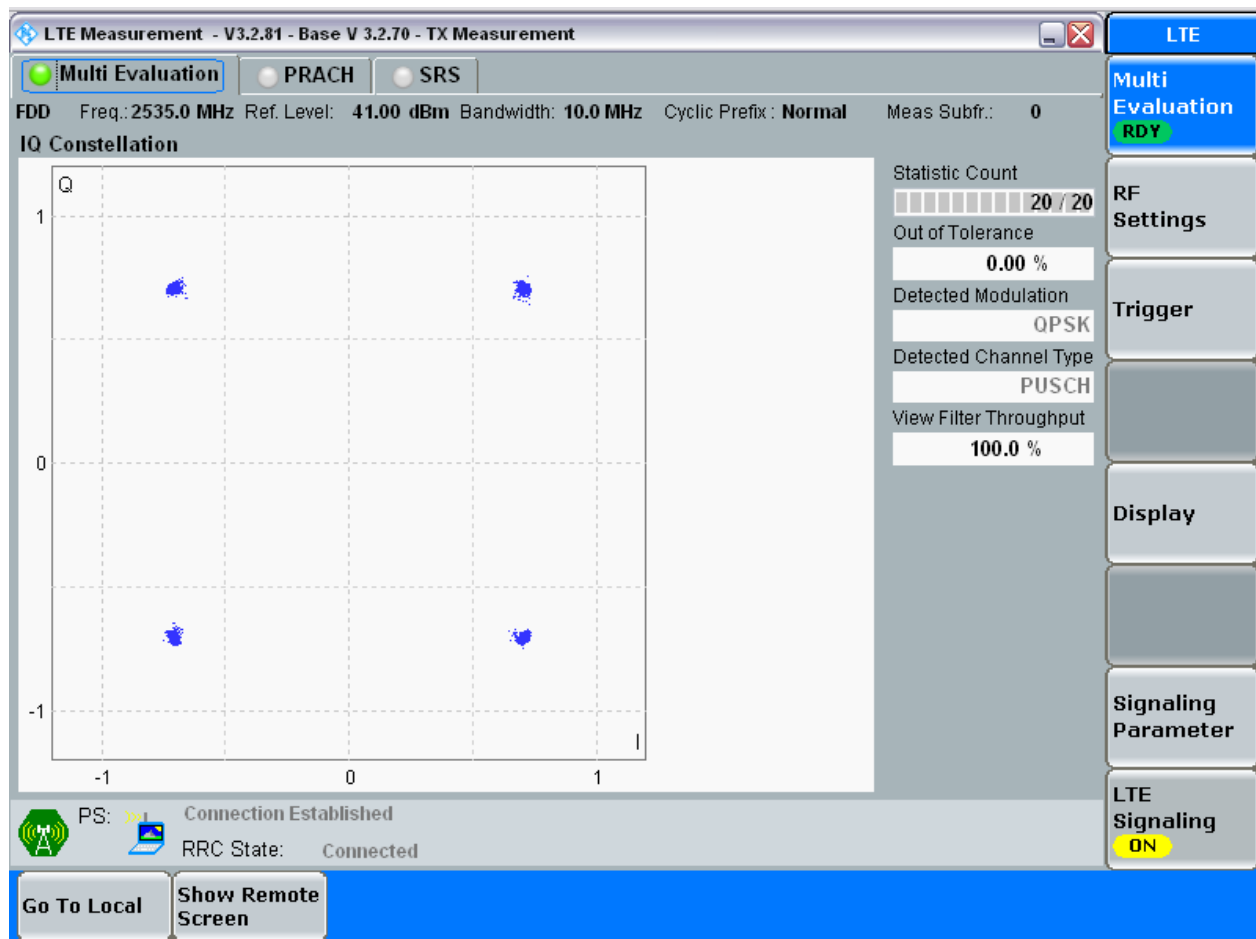
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

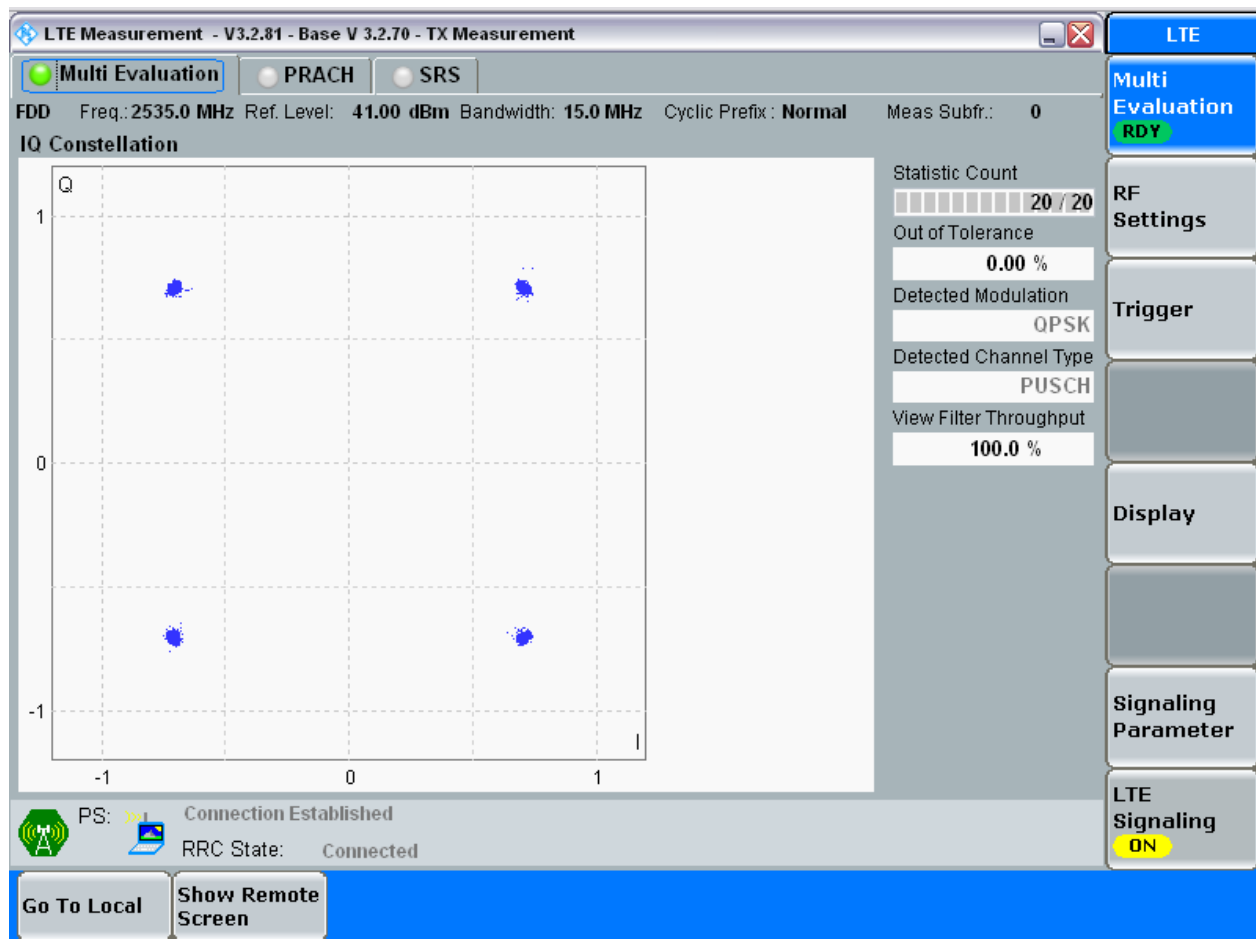
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

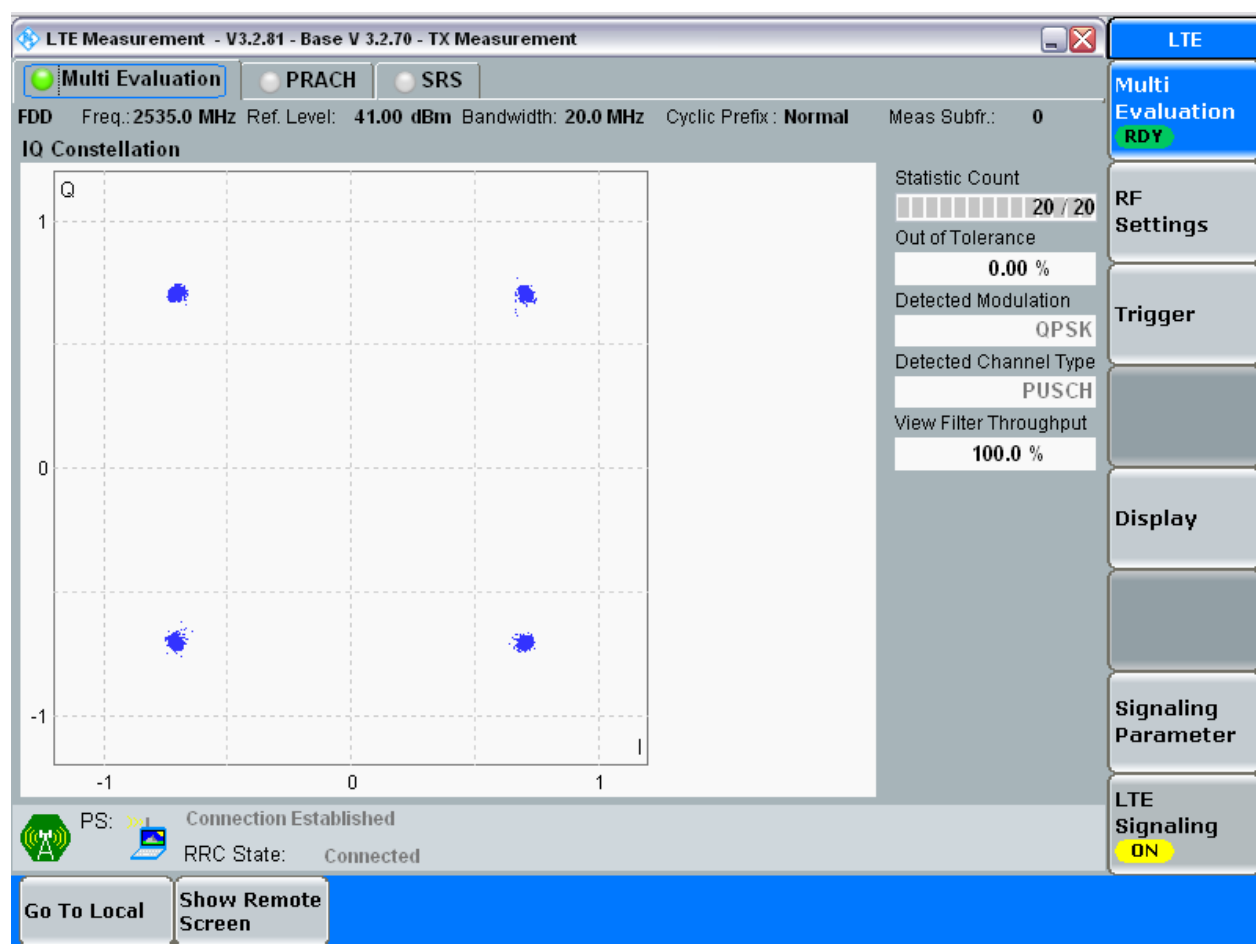
3.1.1.1.3.1.1 Test RB = RB75#0



3.1.1.1.4 Test Bandwidth = 20

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB100#0

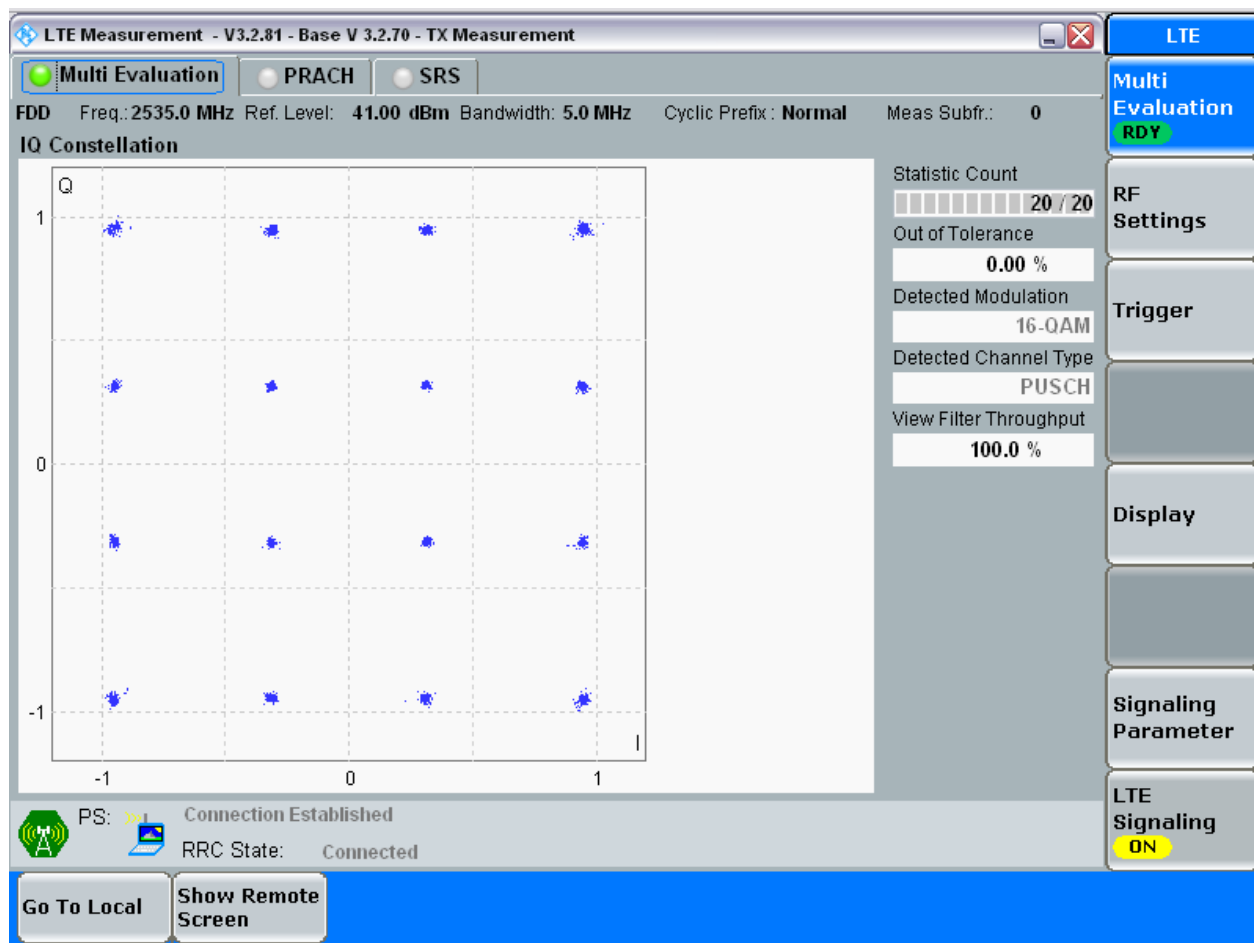


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

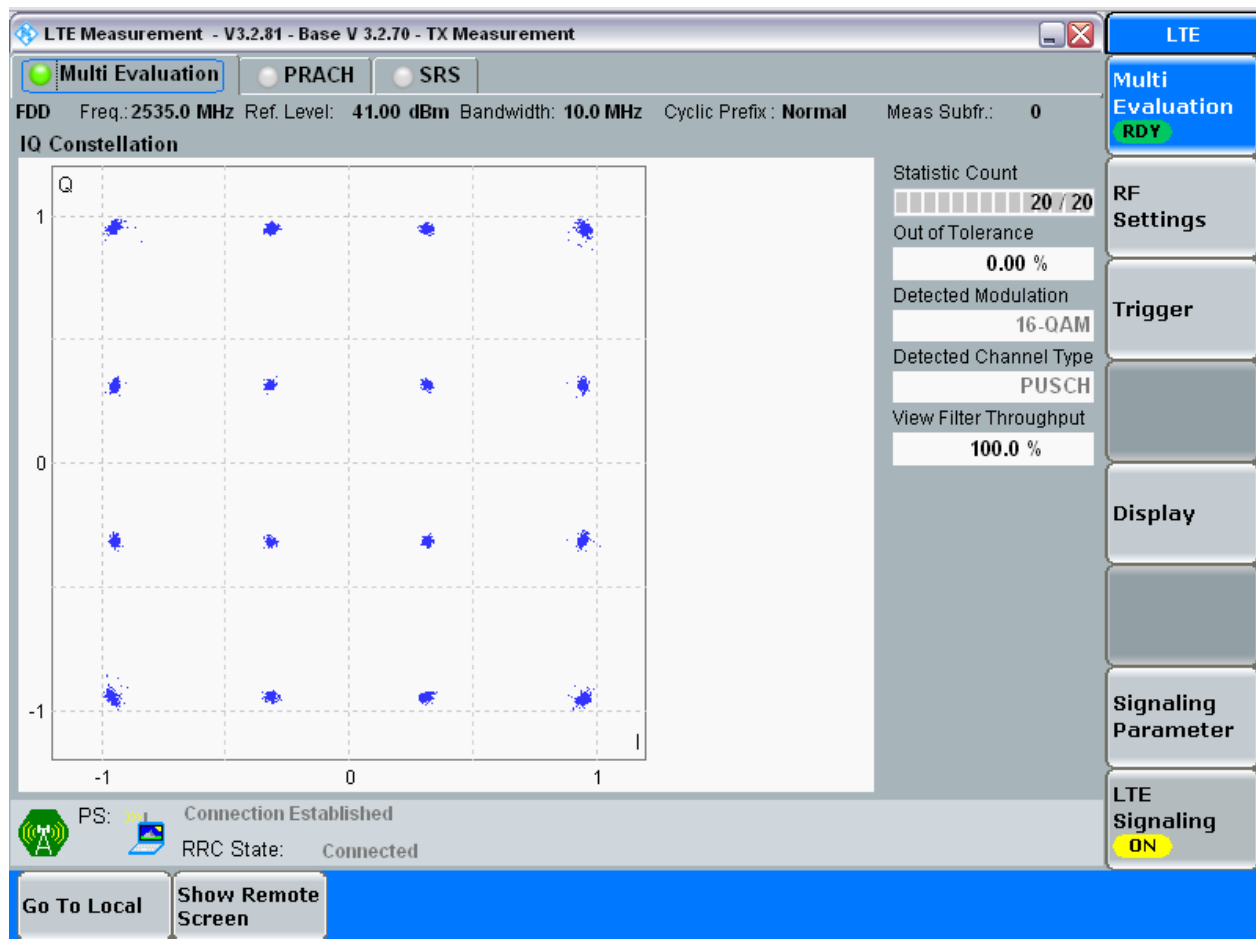
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

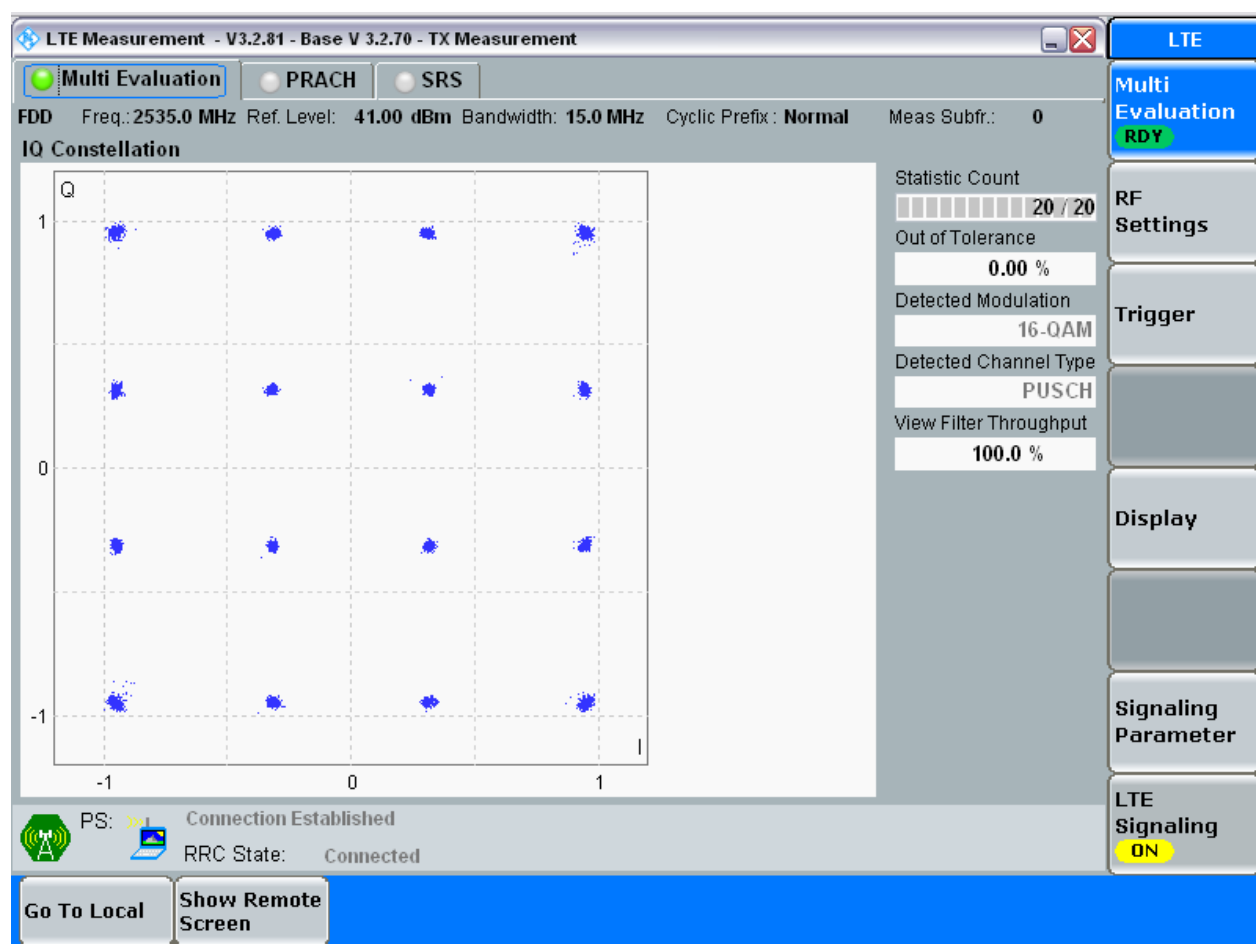
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

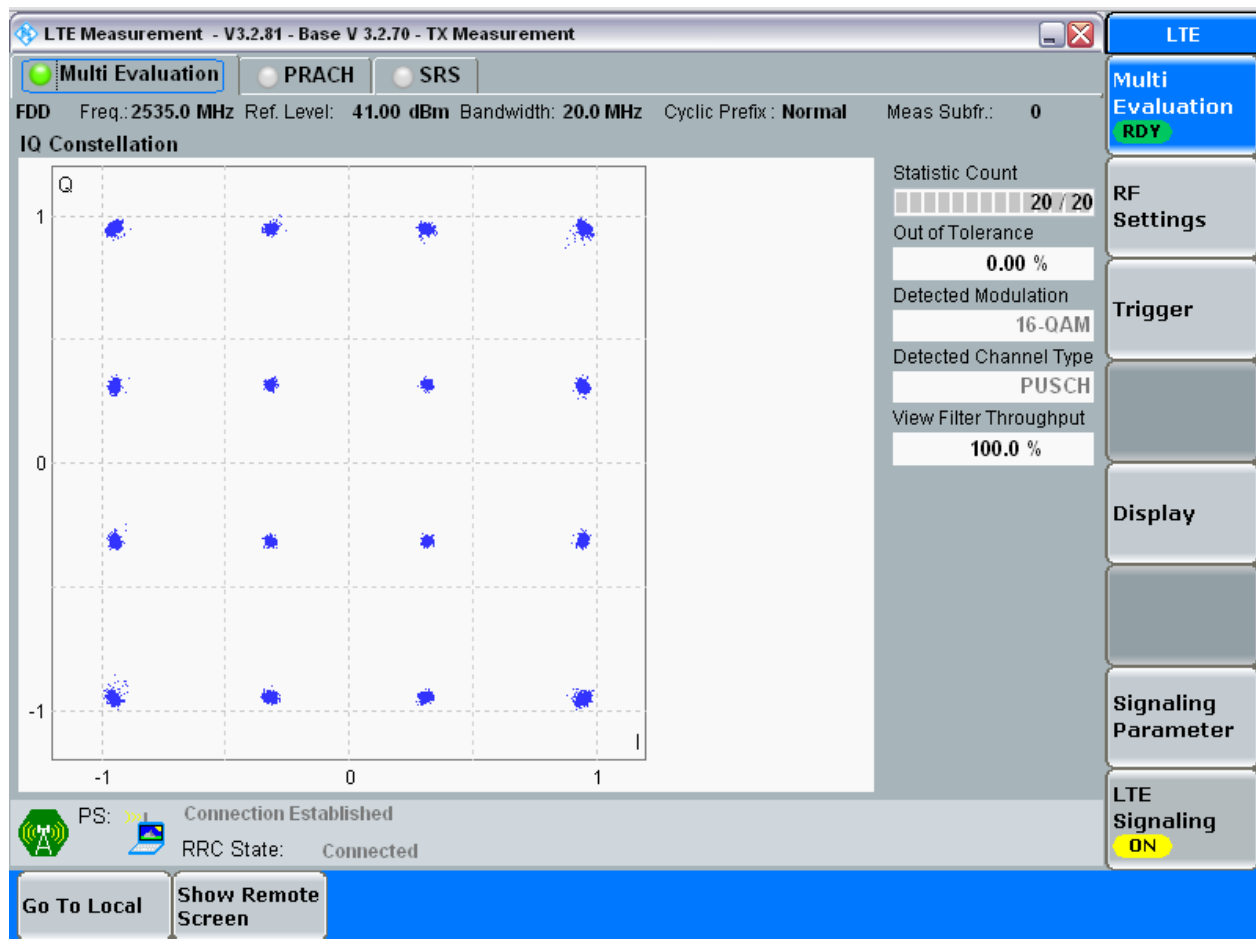
3.1.1.2.3.1.1 Test RB = RB75#0



3.1.1.2.4 Test Bandwidth = 20

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 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
BAND7	LTE/TM1	5	LCH	RB25#0	4.50	4.88	Pass
			MCH	RB25#0	4.50	4.89	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.98	9.60	Pass
			MCH	RB50#0	9.00	9.66	Pass
			HCH	RB50#0	8.99	9.64	Pass
		15	LCH	RB75#0	13.45	14.37	Pass
			MCH	RB75#0	13.45	14.36	Pass
			HCH	RB75#0	13.49	14.39	Pass
		20	LCH	RB100#0	17.95	19.10	Pass
			MCH	RB100#0	17.94	19.07	Pass
			HCH	RB100#0	17.95	19.07	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.88	Pass
			MCH	RB25#0	4.50	4.84	Pass
			HCH	RB25#0	4.51	4.86	Pass
		10	LCH	RB50#0	8.98	9.66	Pass
			MCH	RB50#0	8.98	9.66	Pass
			HCH	RB50#0	8.99	9.61	Pass
		15	LCH	RB75#0	13.45	14.39	Pass
			MCH	RB75#0	13.45	14.37	Pass
			HCH	RB75#0	13.48	14.32	Pass
		20	LCH	RB100#0	17.96	19.04	Pass
			MCH	RB100#0	17.94	19.08	Pass
			HCH	RB100#0	17.98	19.06	Pass



Part II - Test Plots

4.1 For LTE

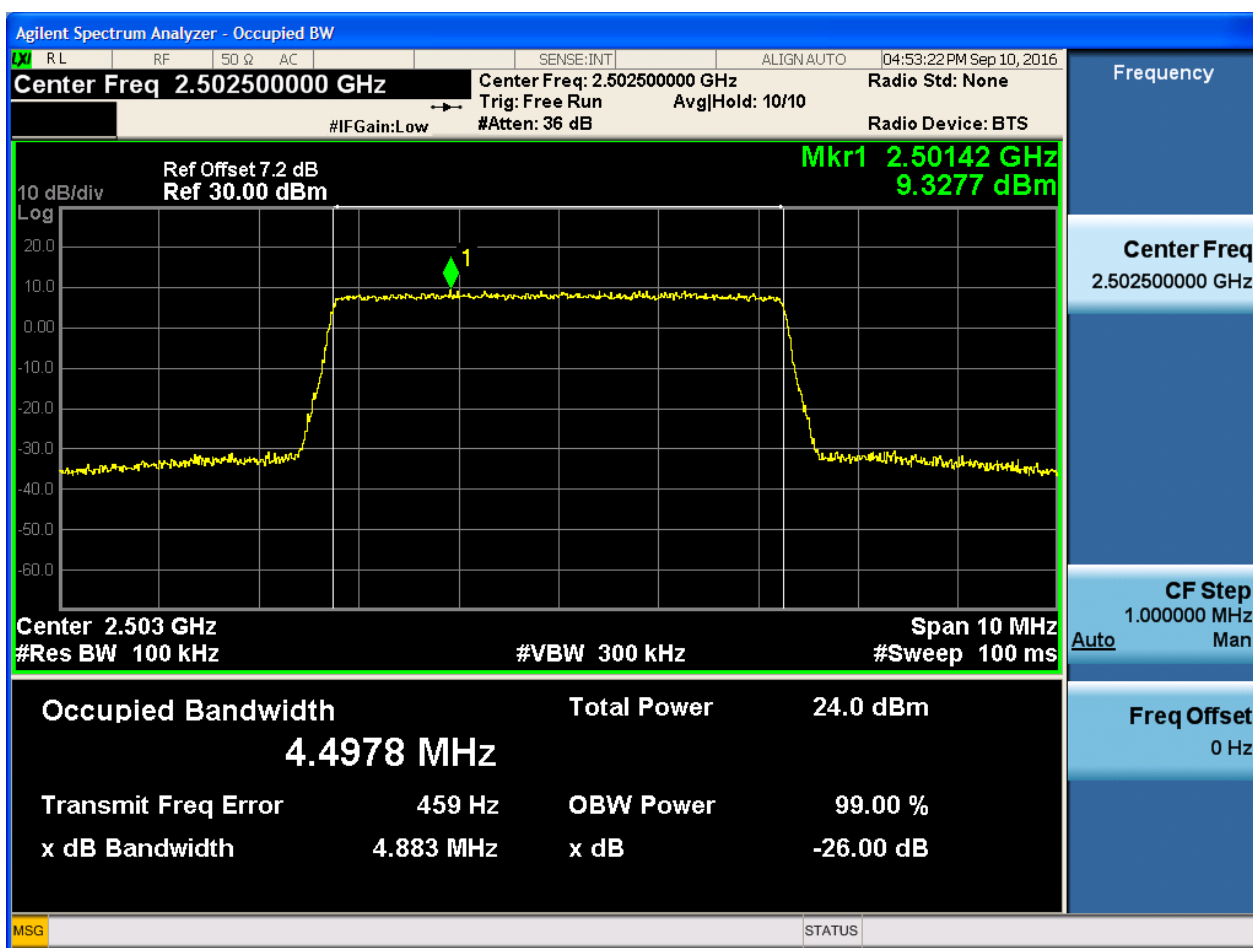
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

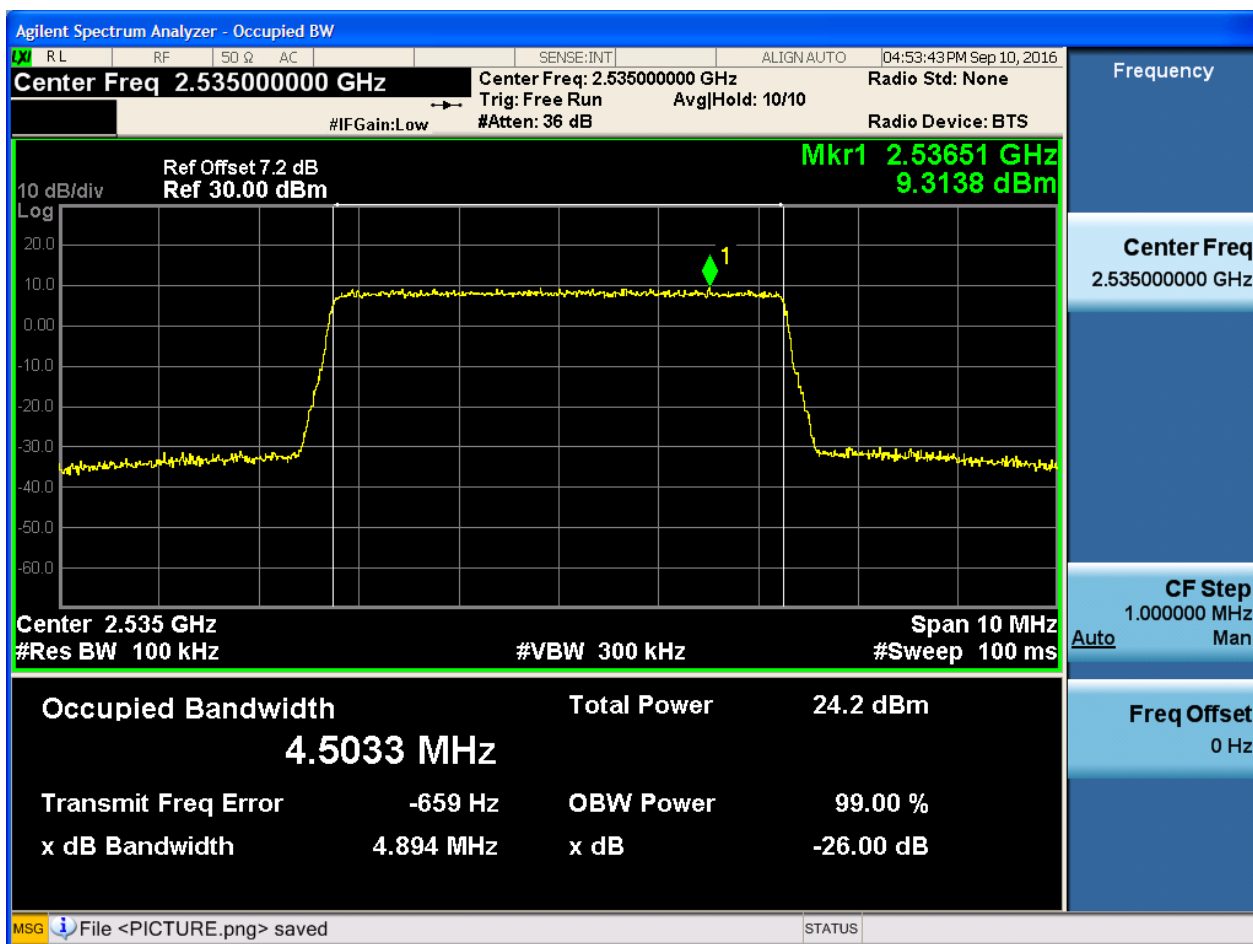
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

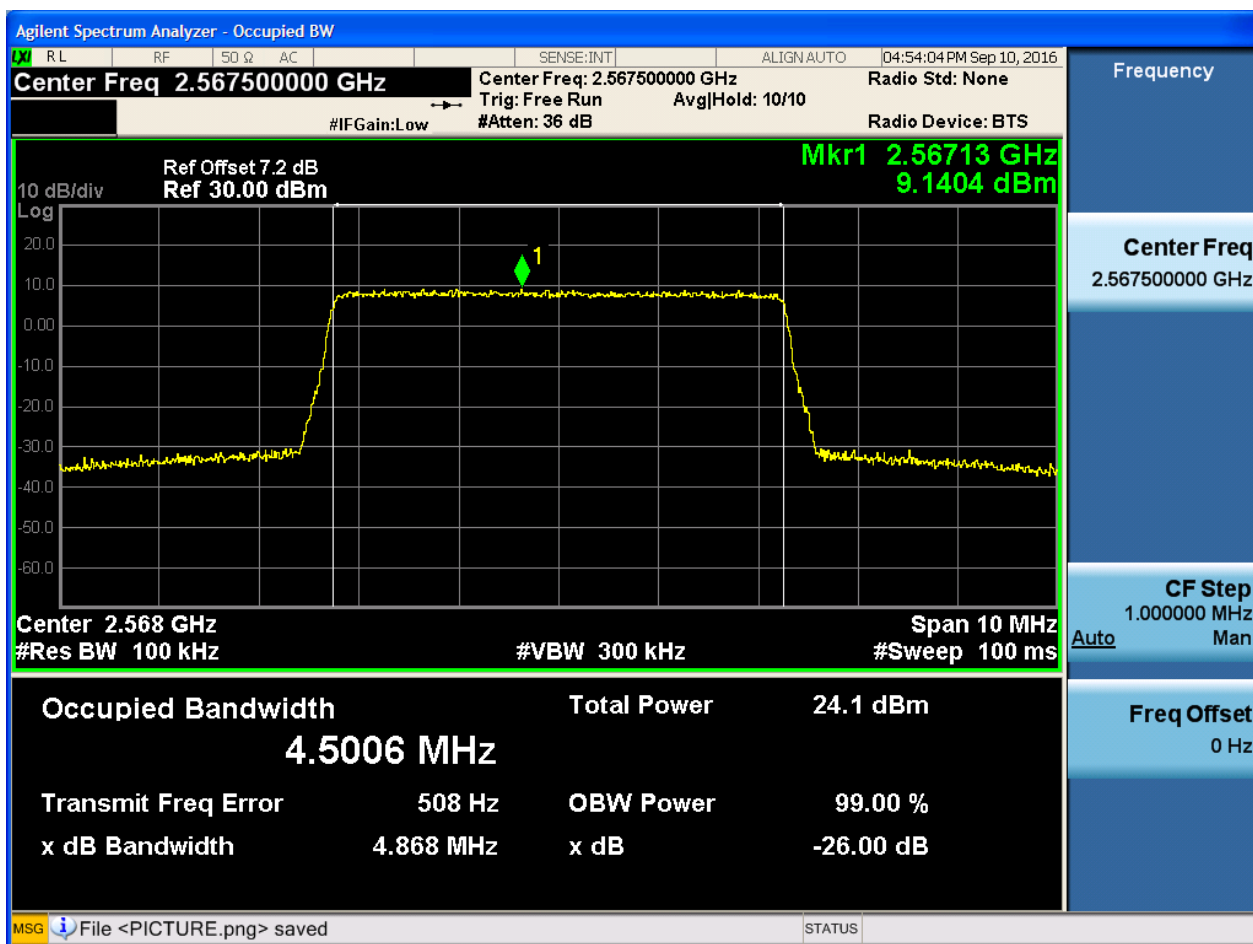
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

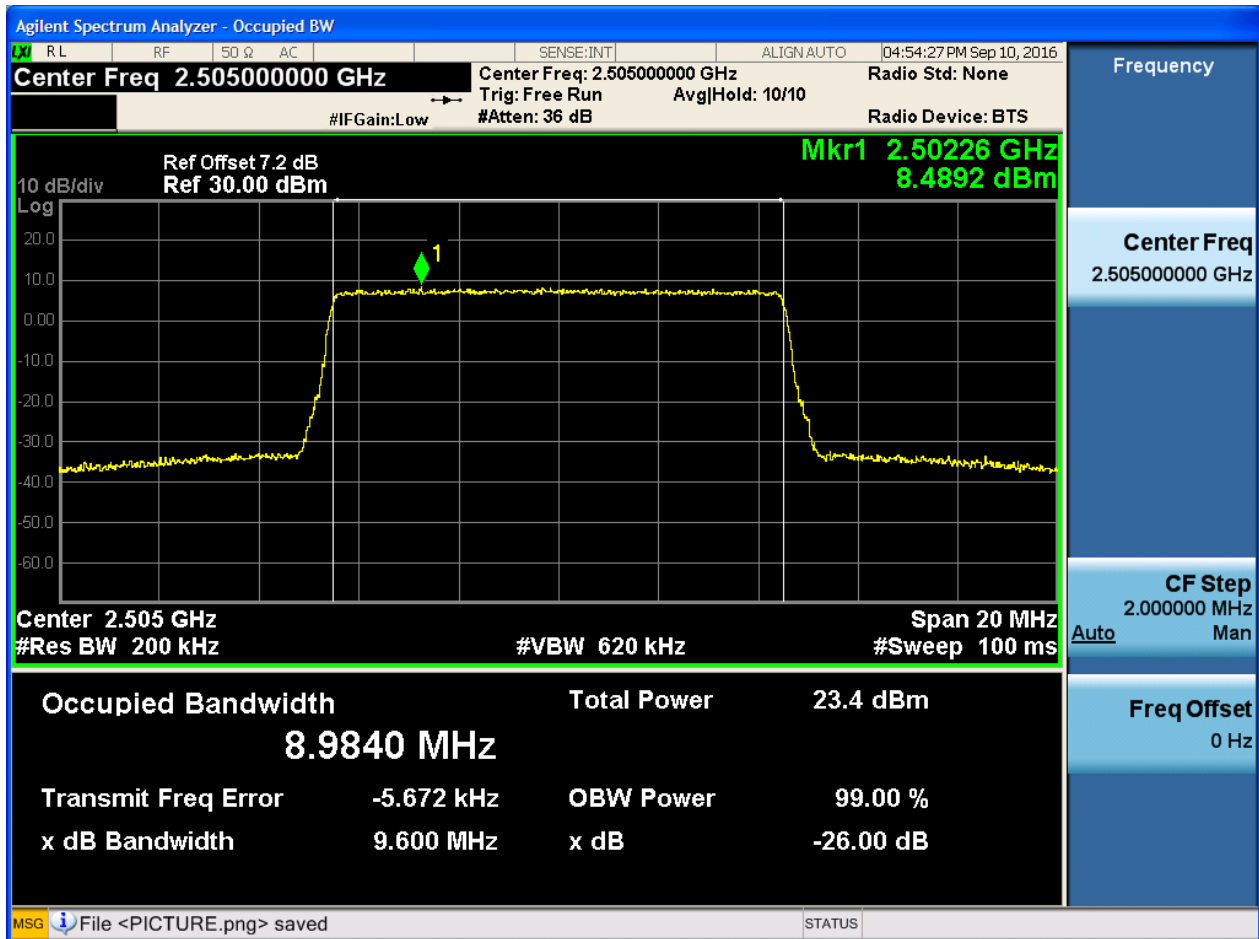




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

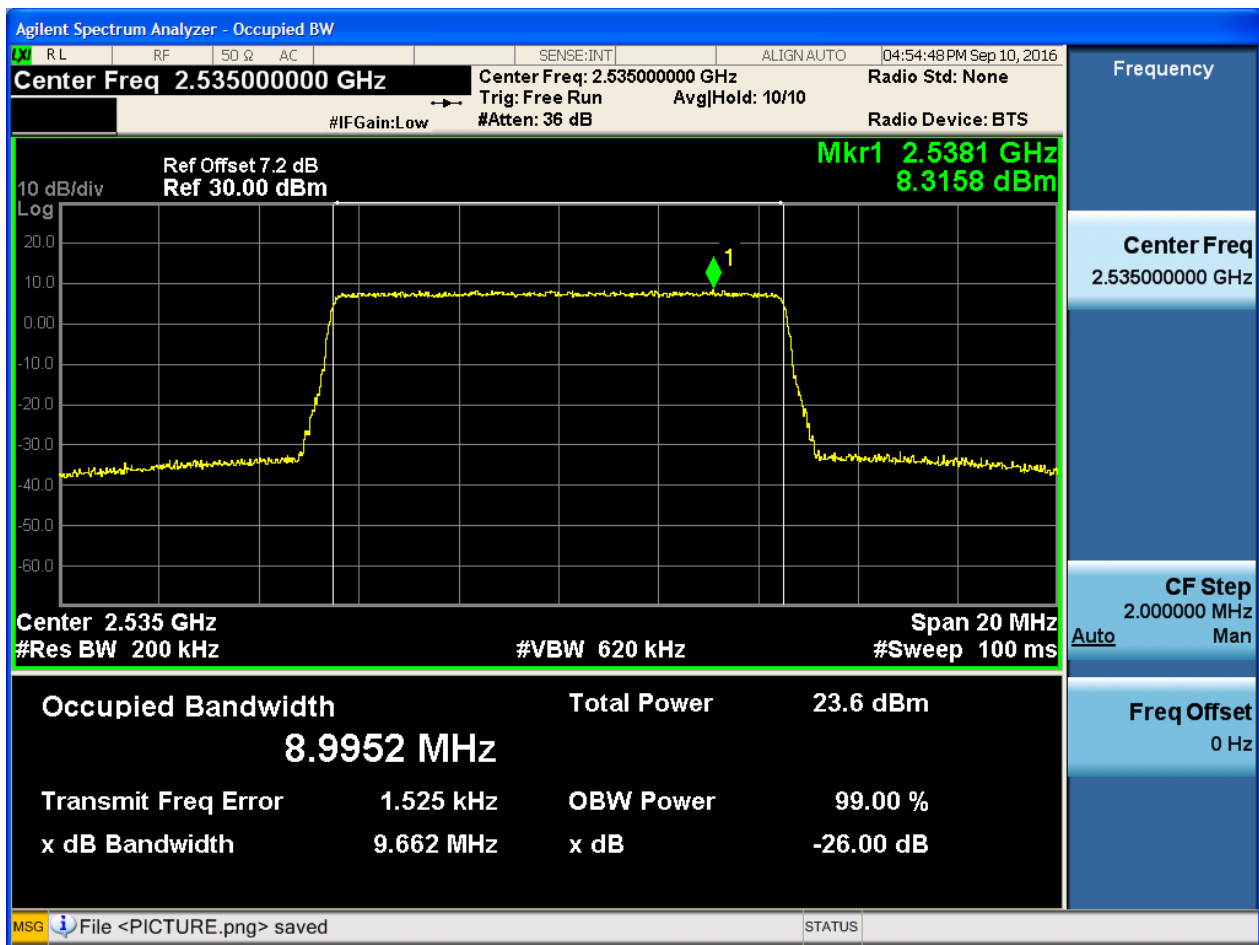
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

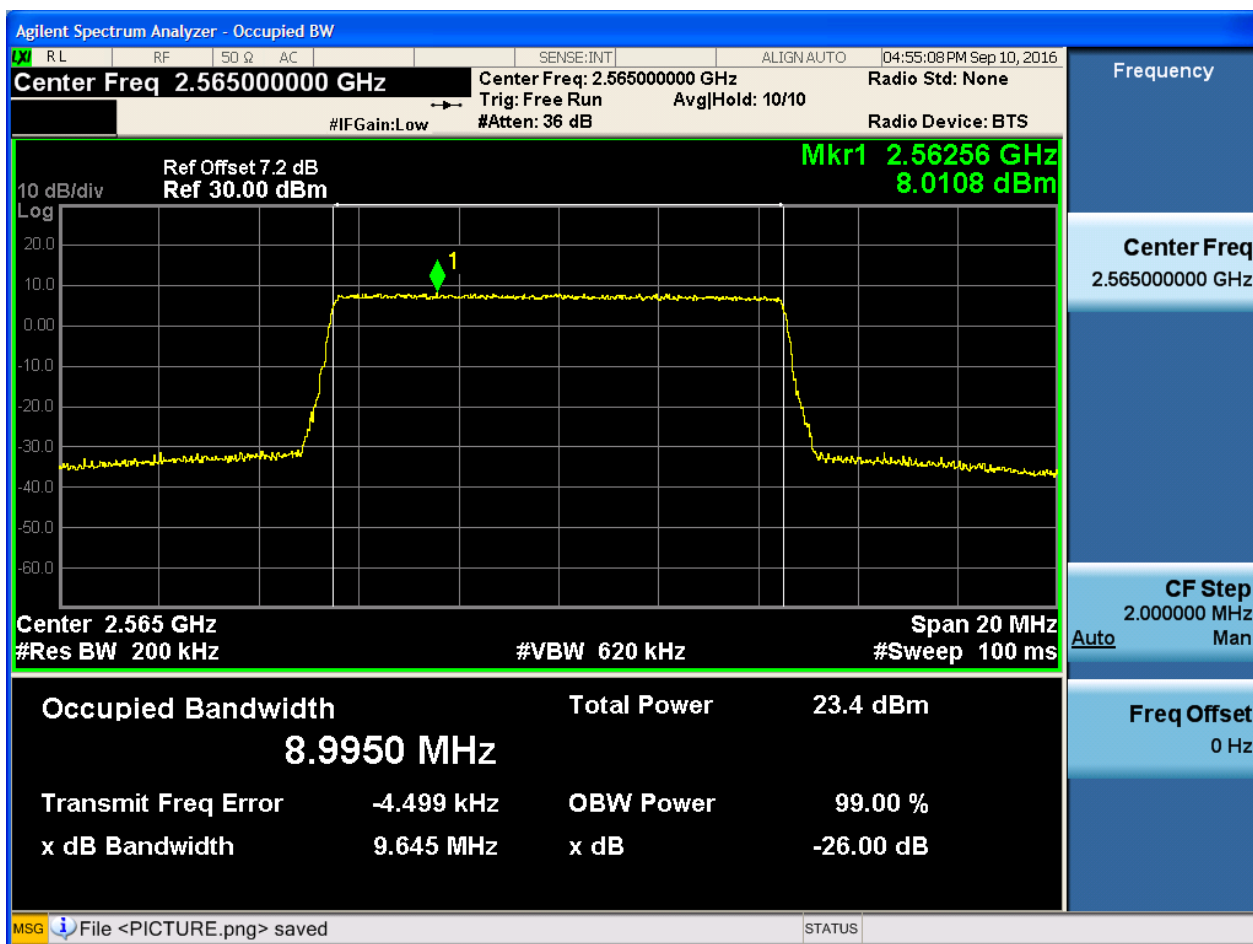
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

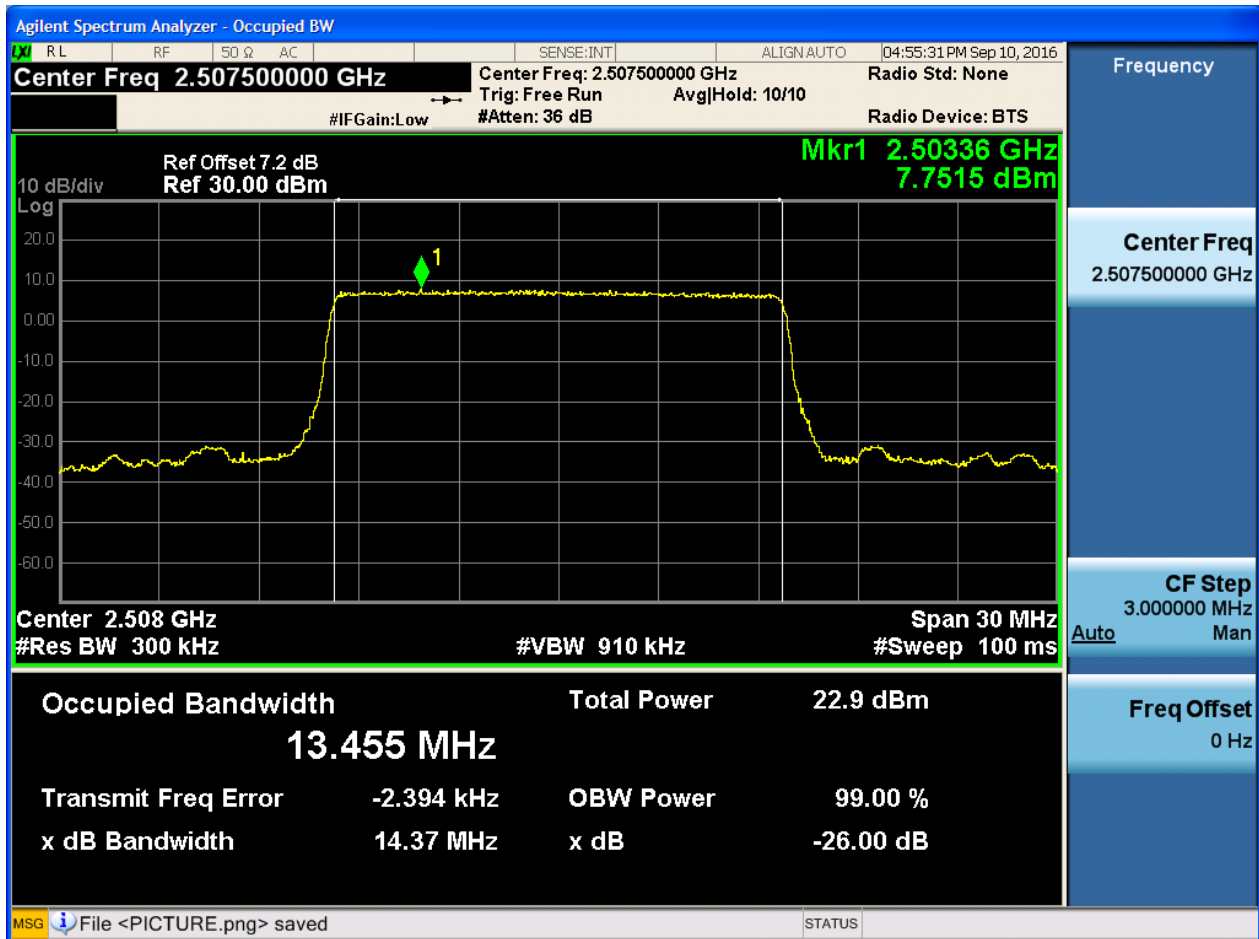




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

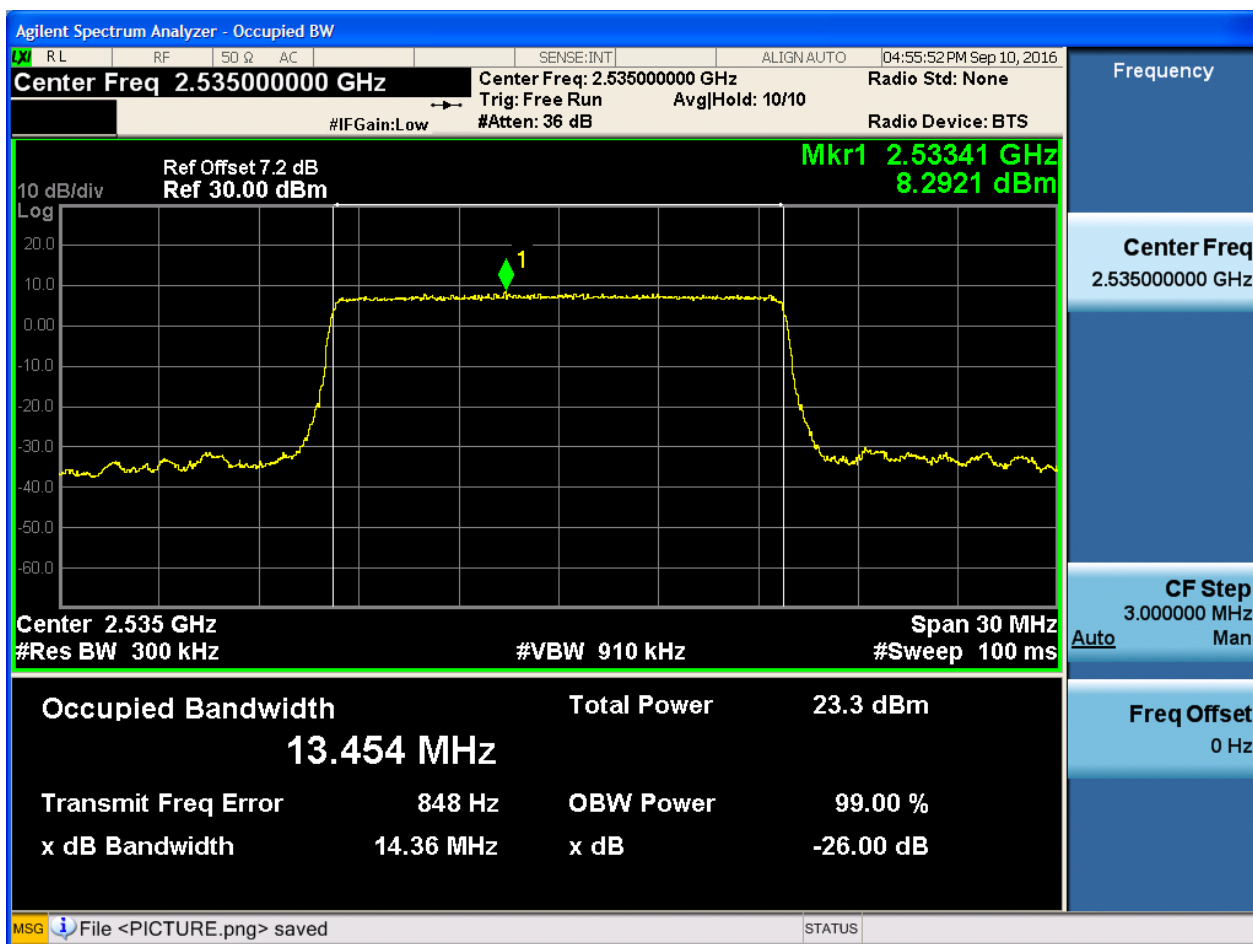
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

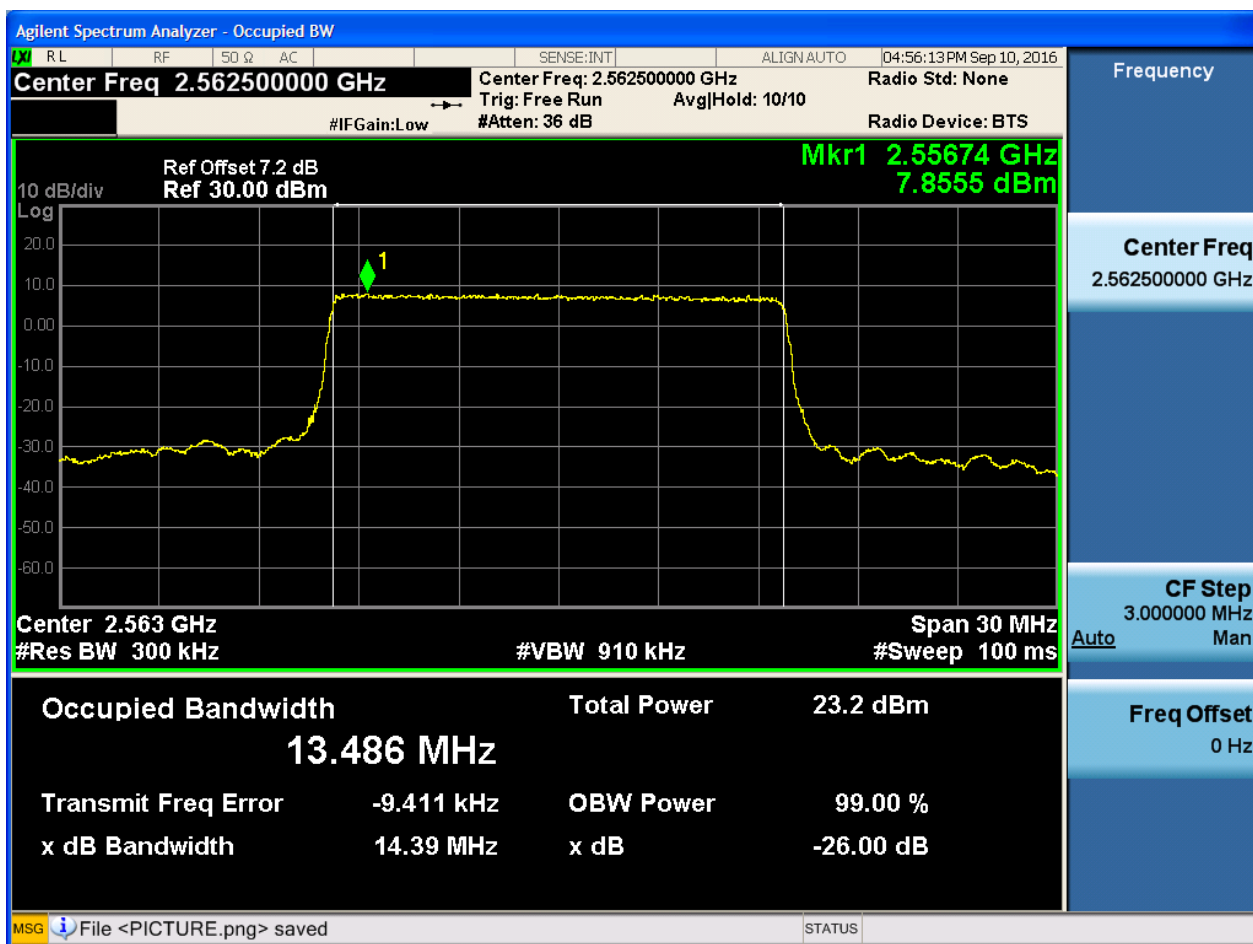
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

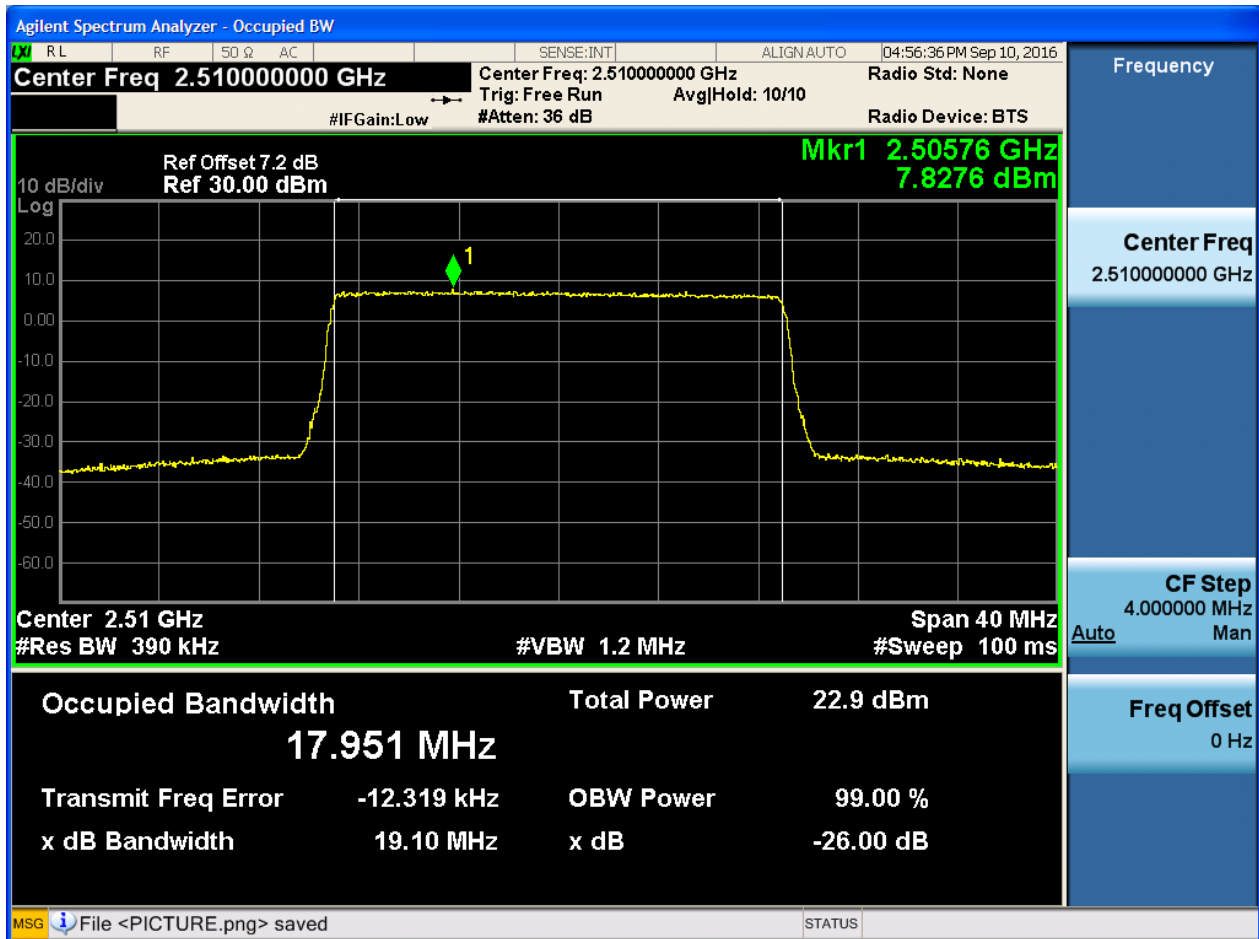




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

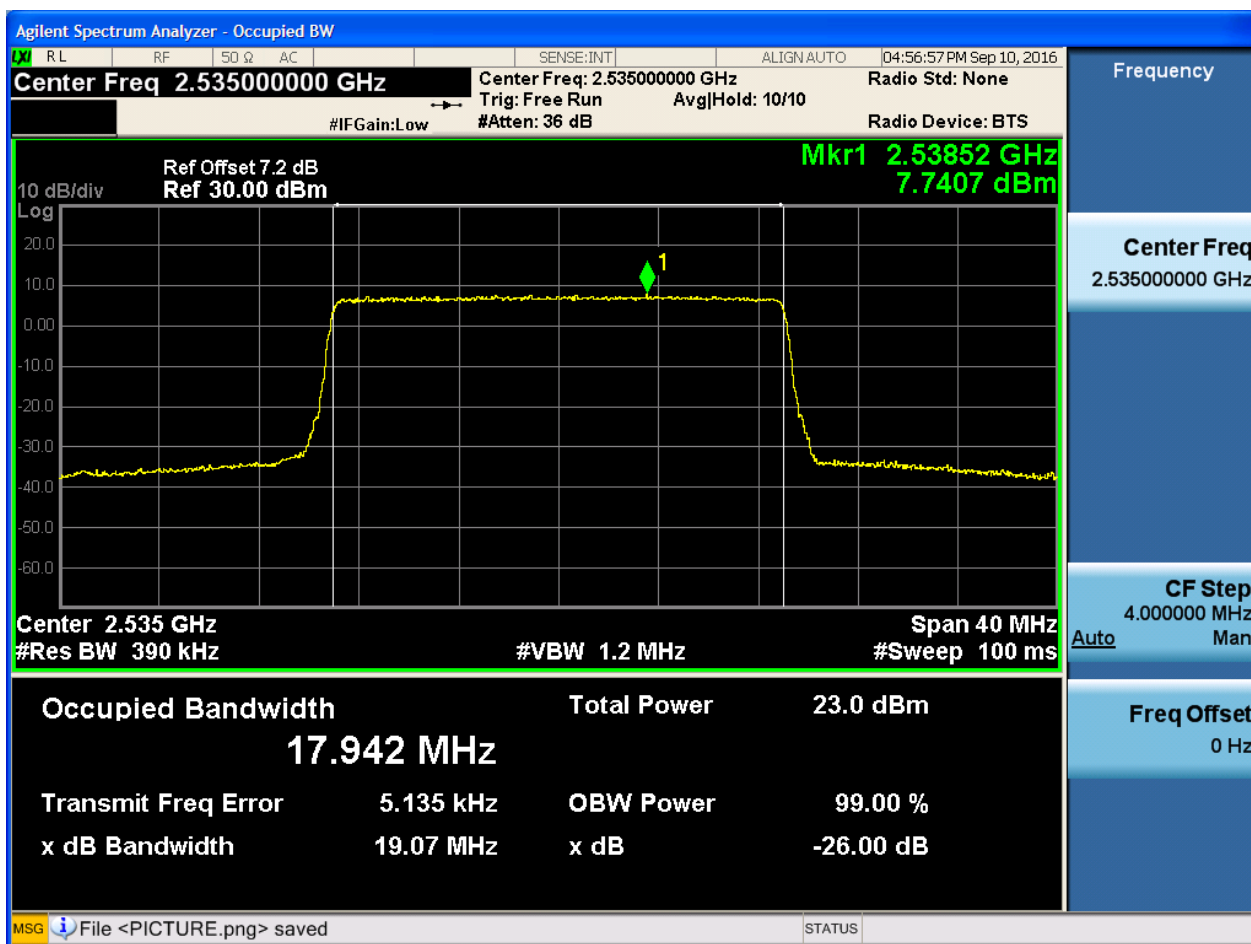
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

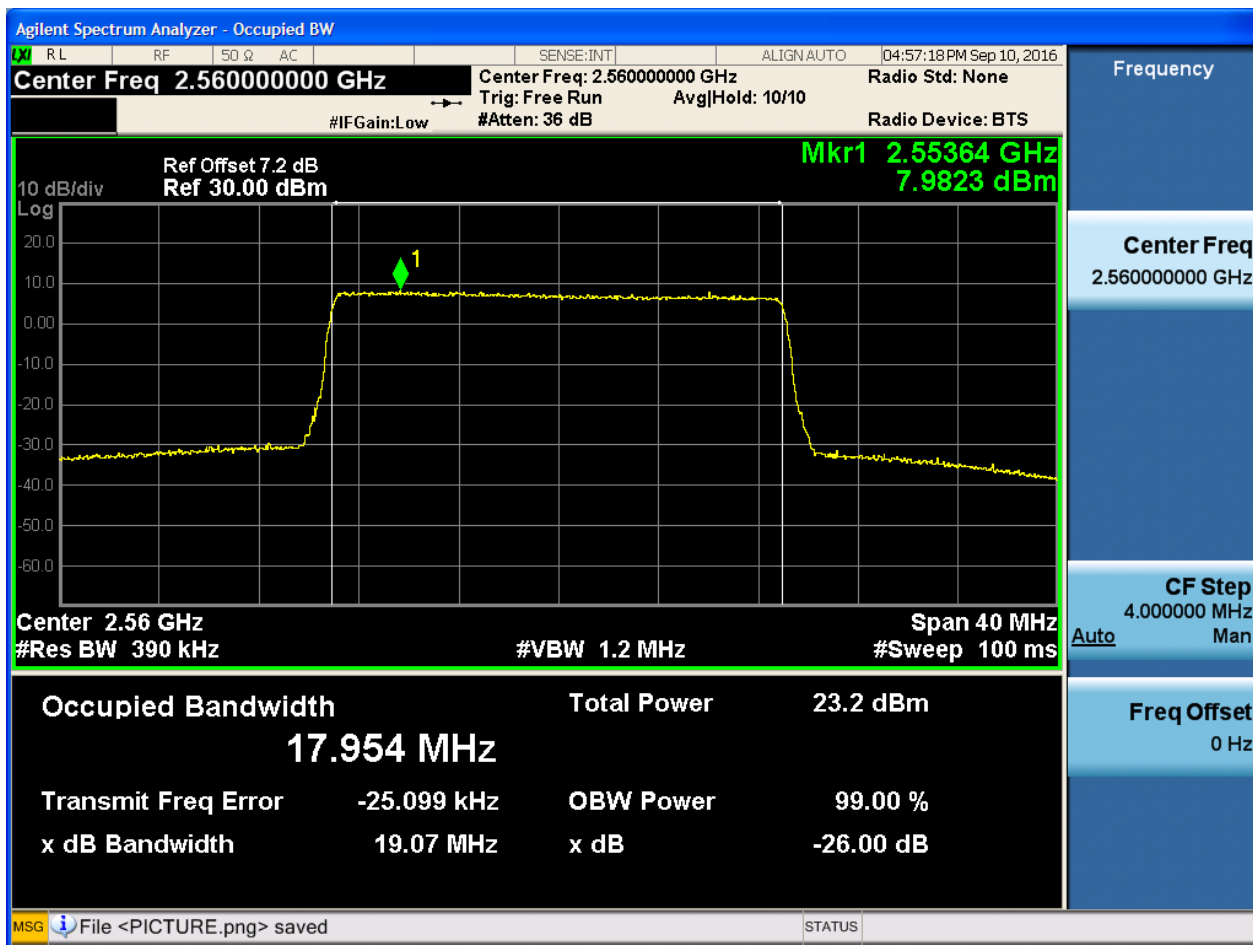
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



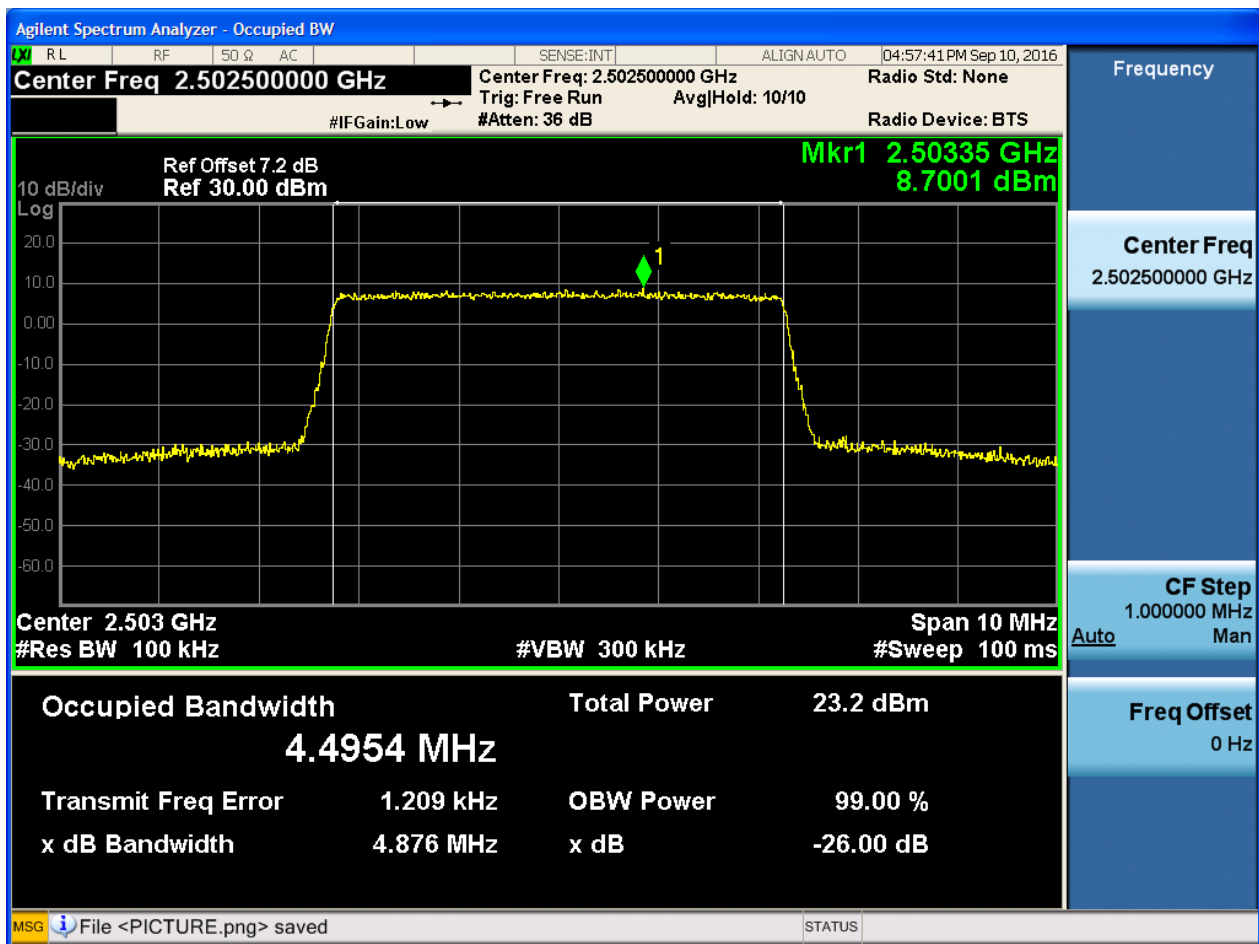


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

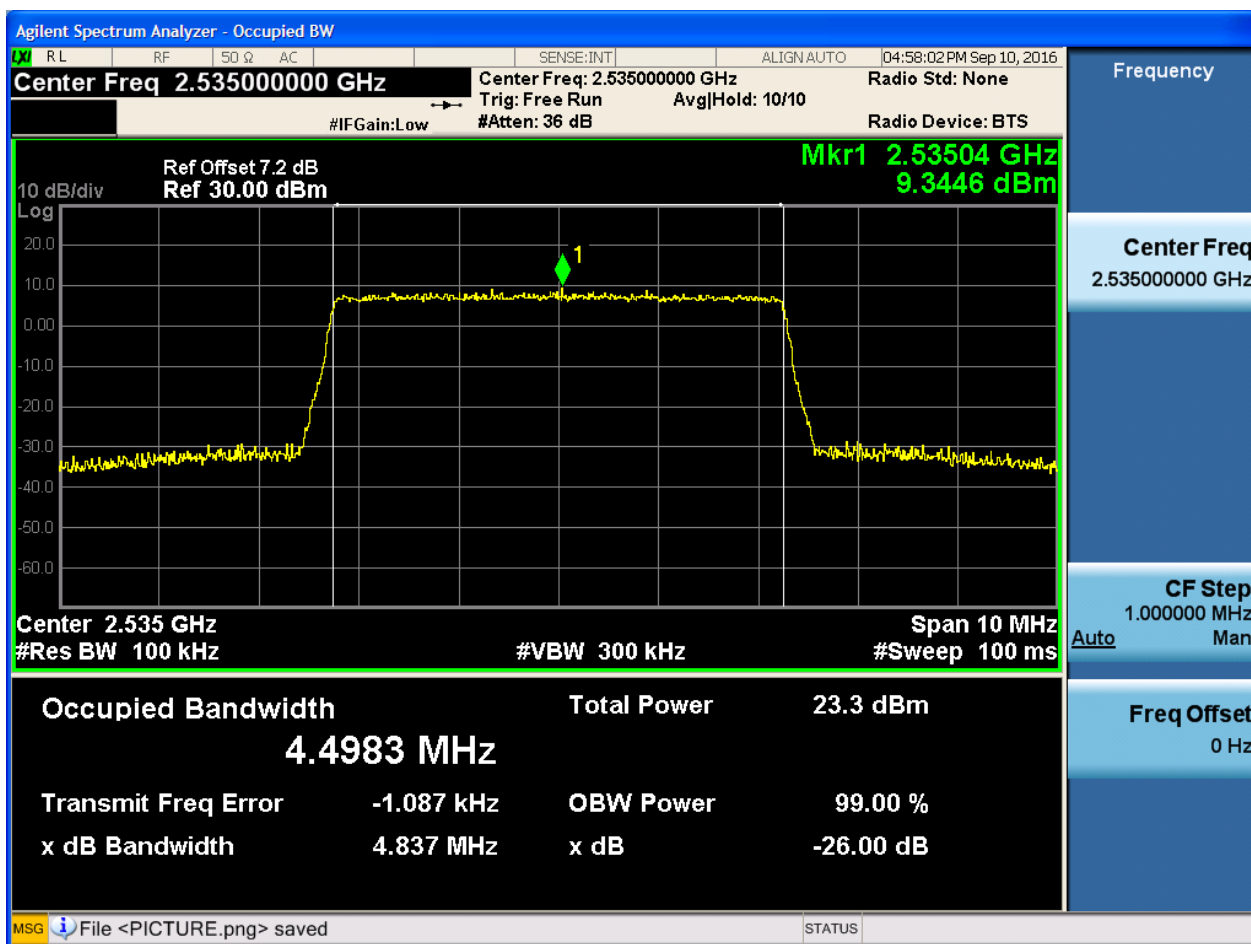
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

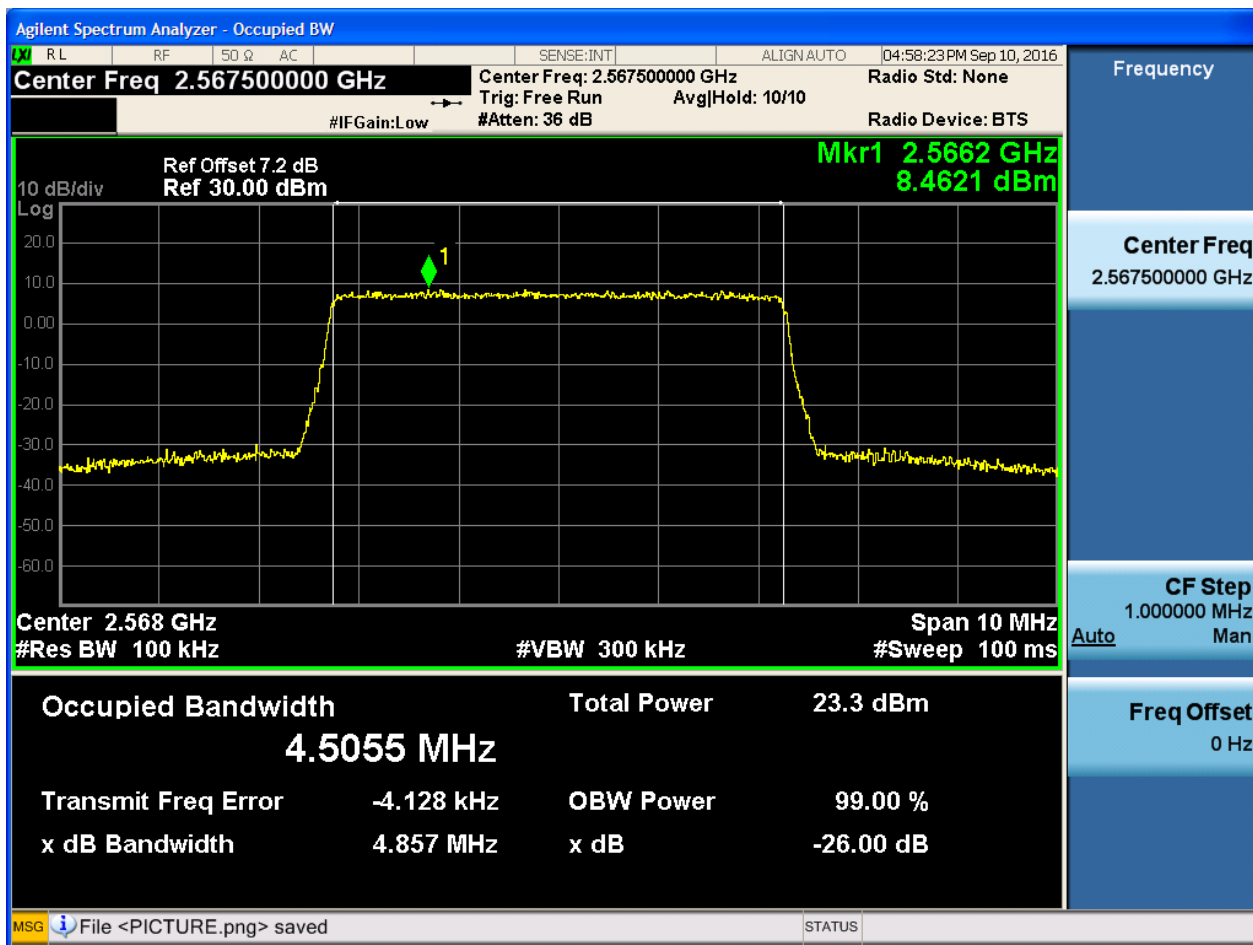
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

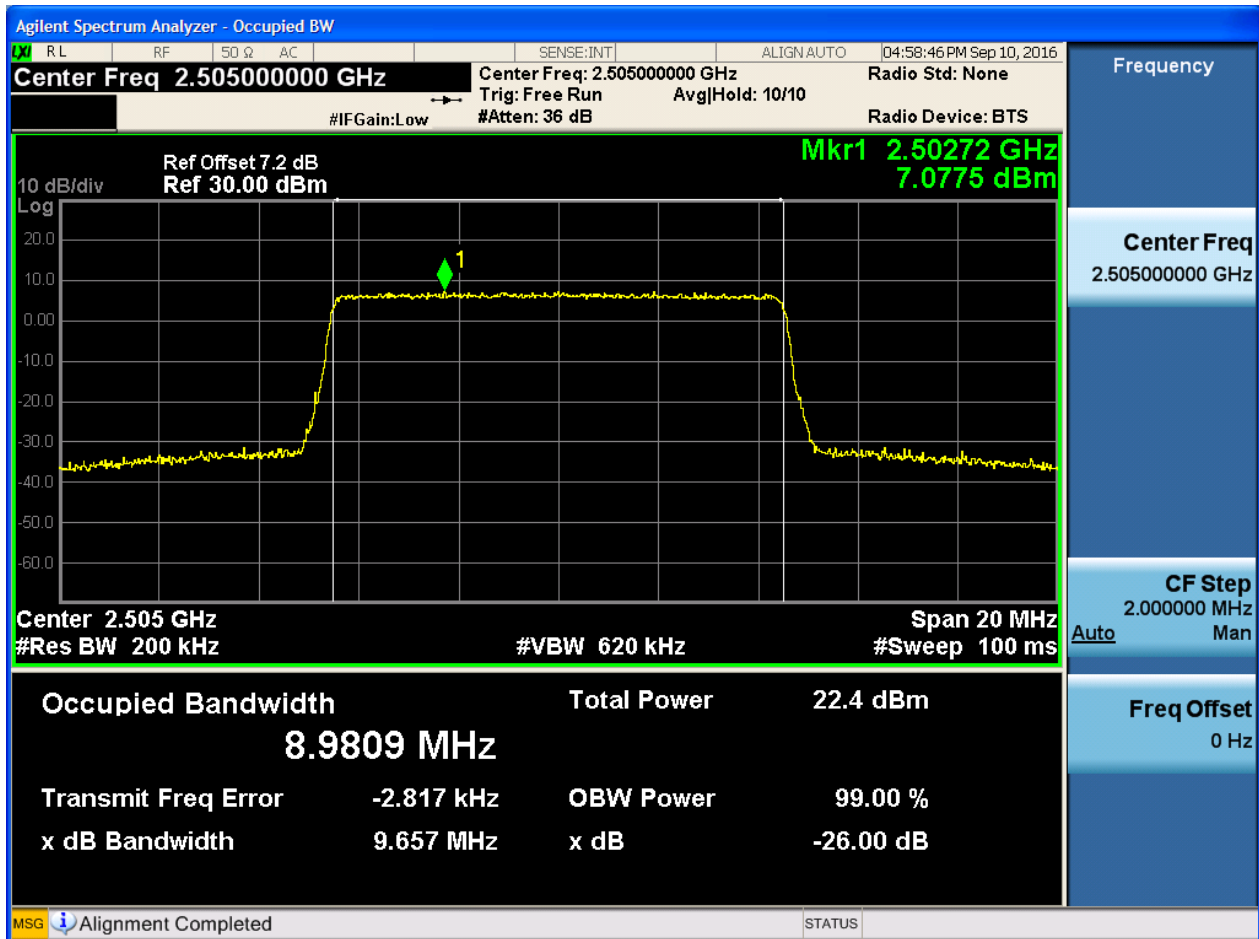




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

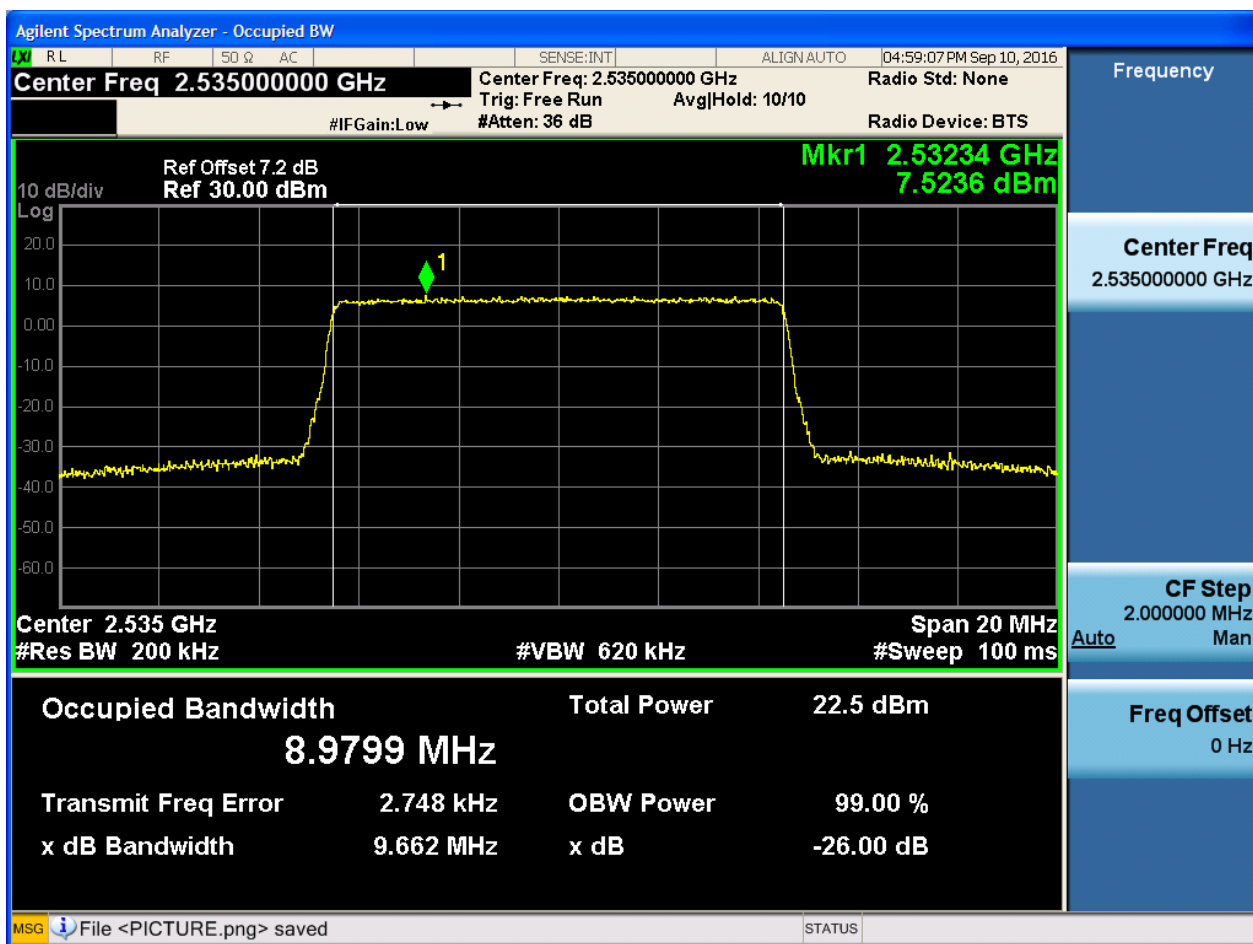
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

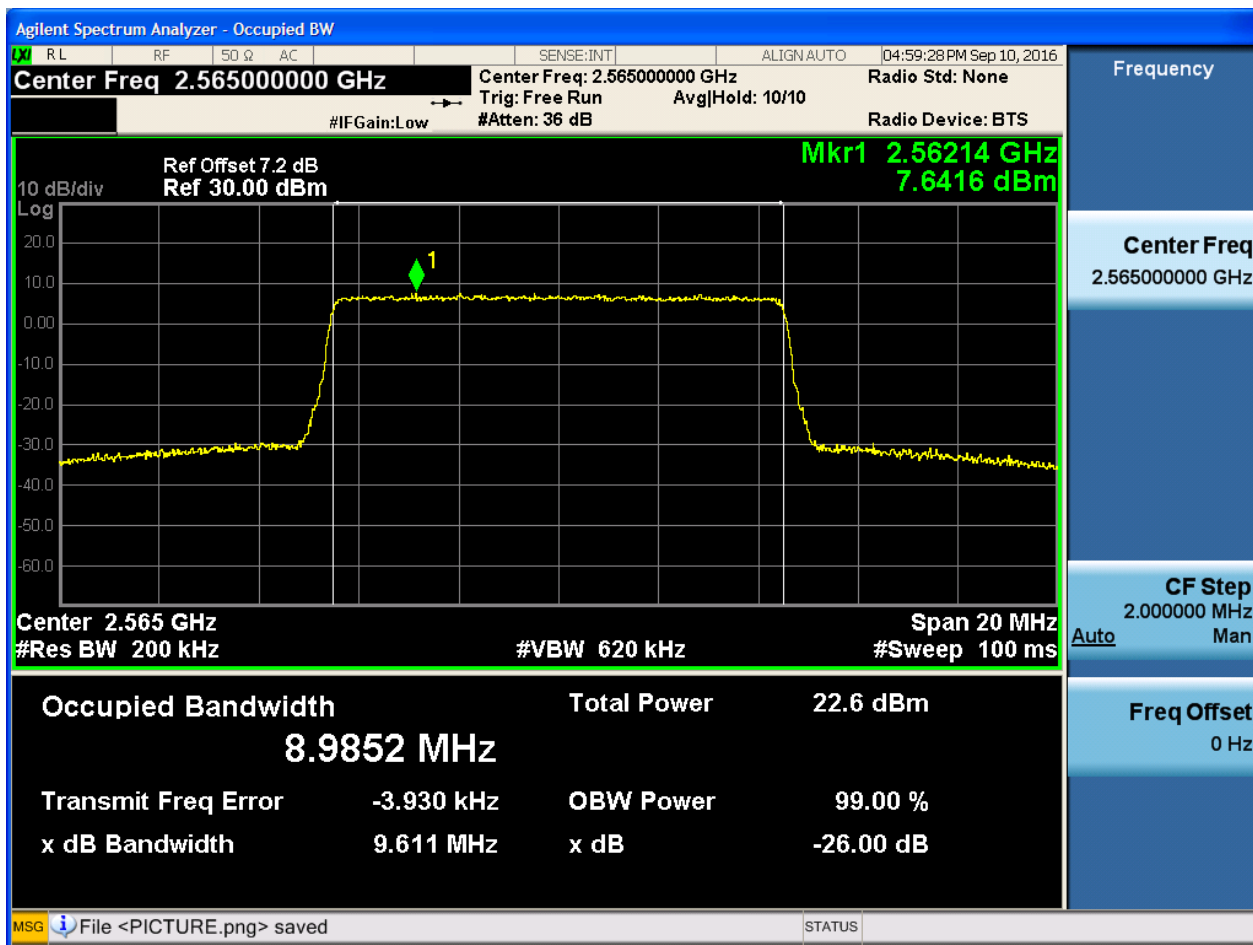
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

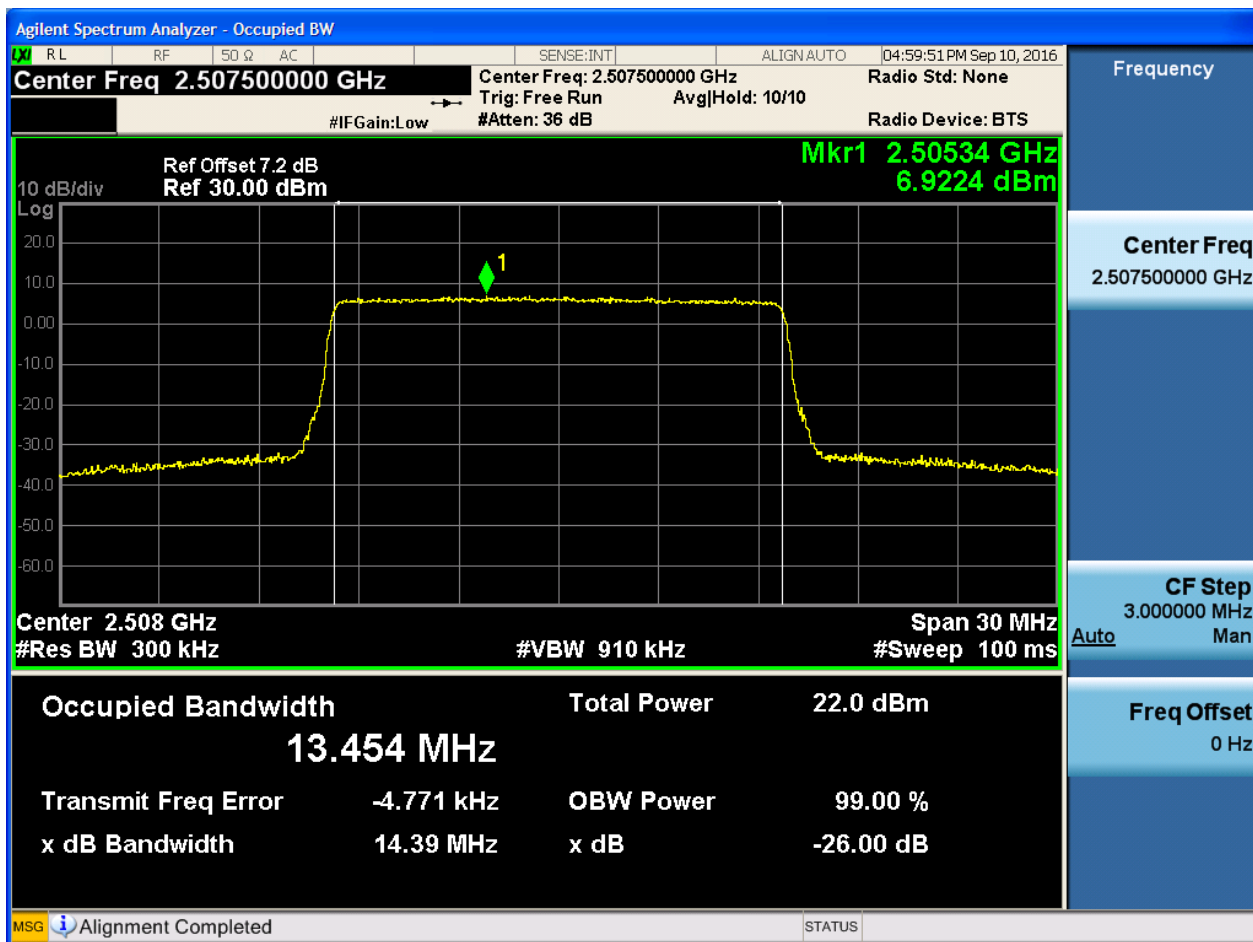




4.1.1.2.3 Test Bandwidth = 15

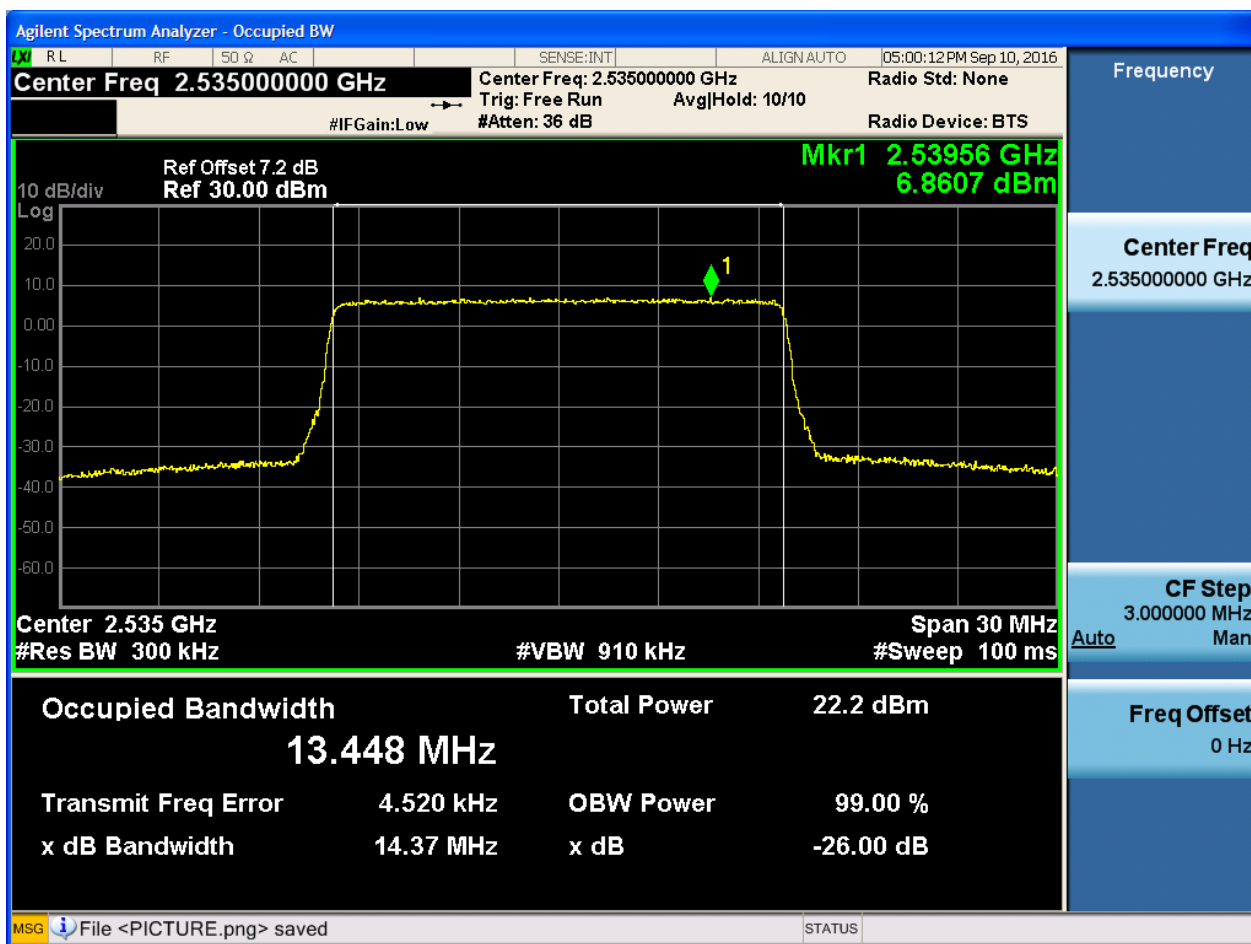
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0





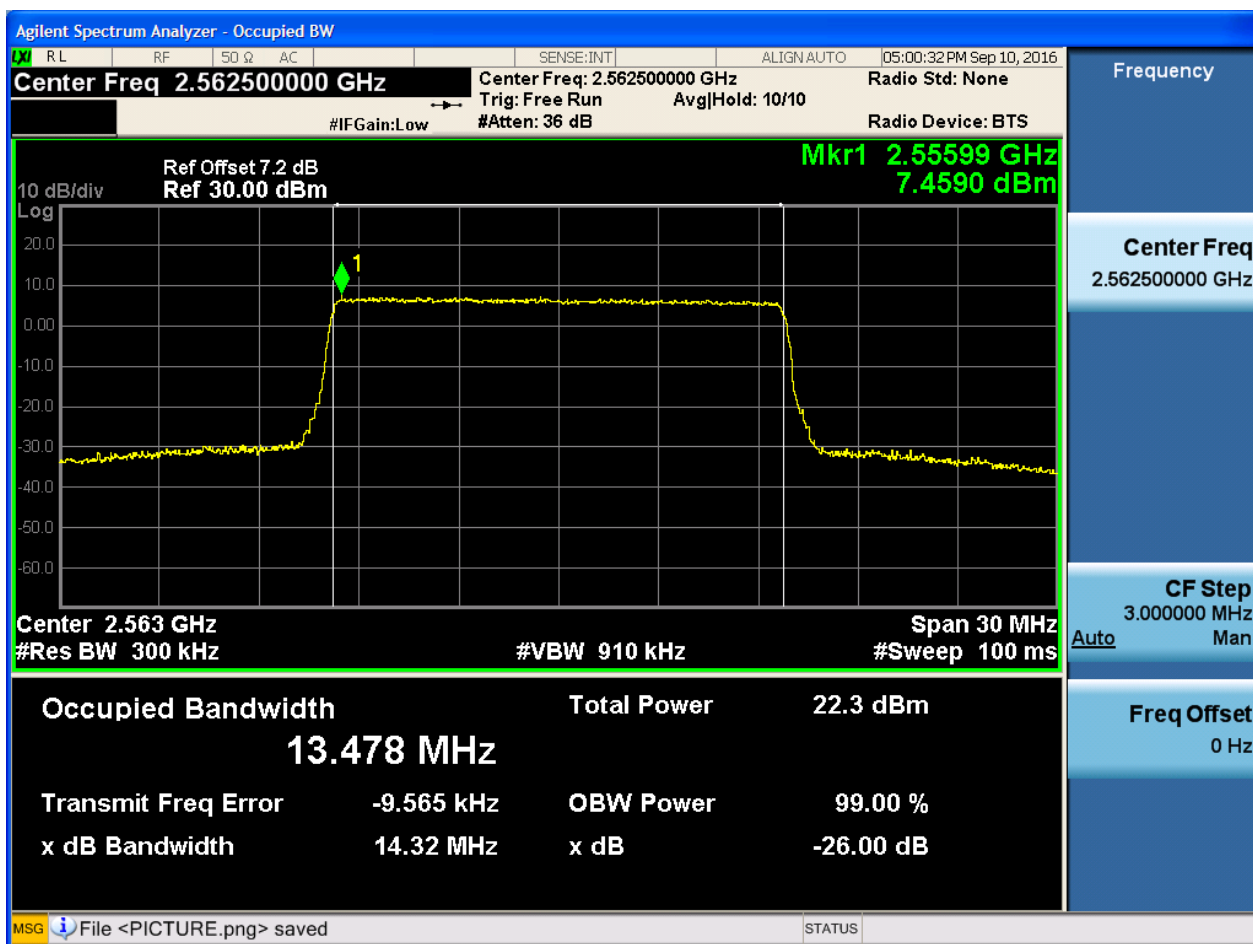
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

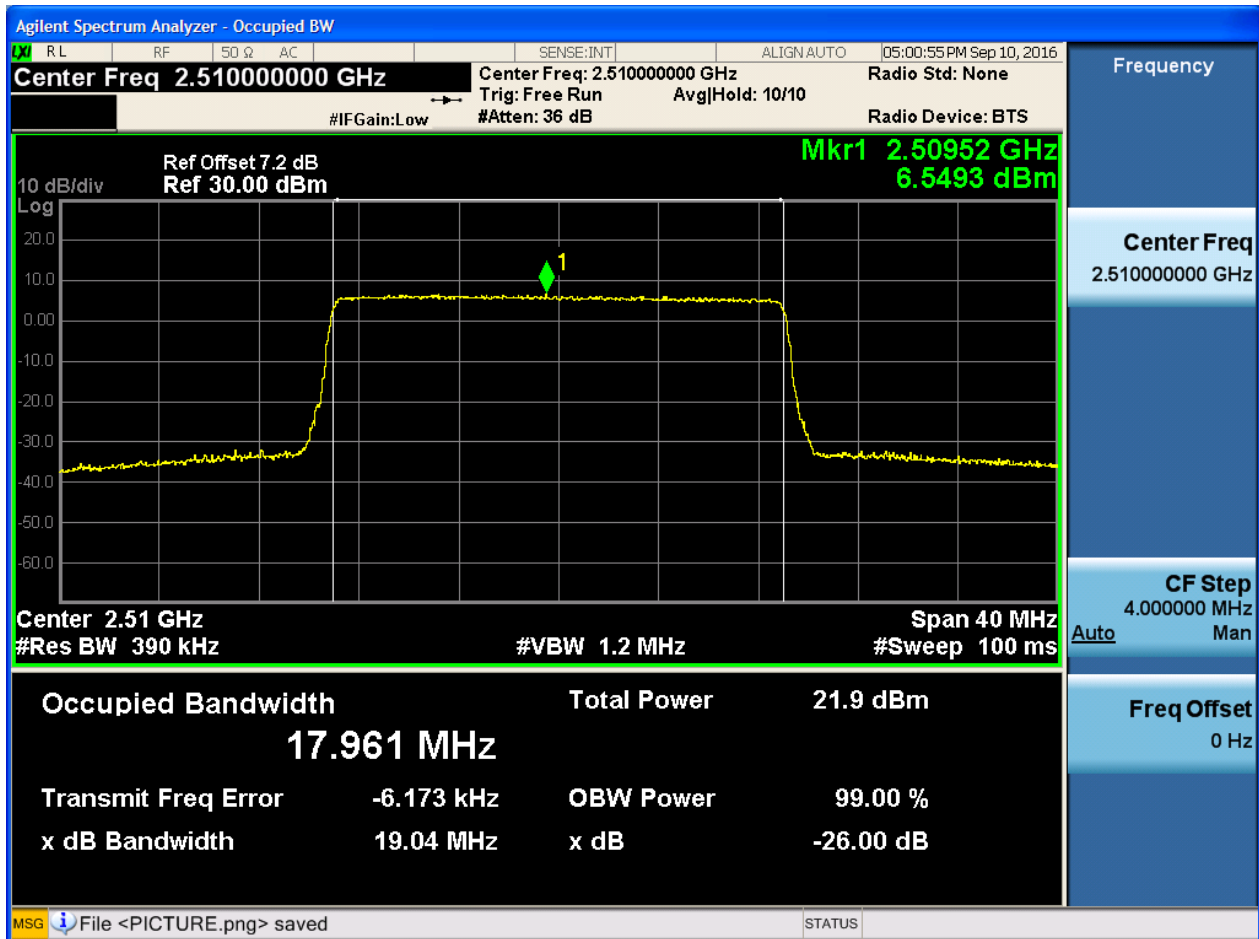




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

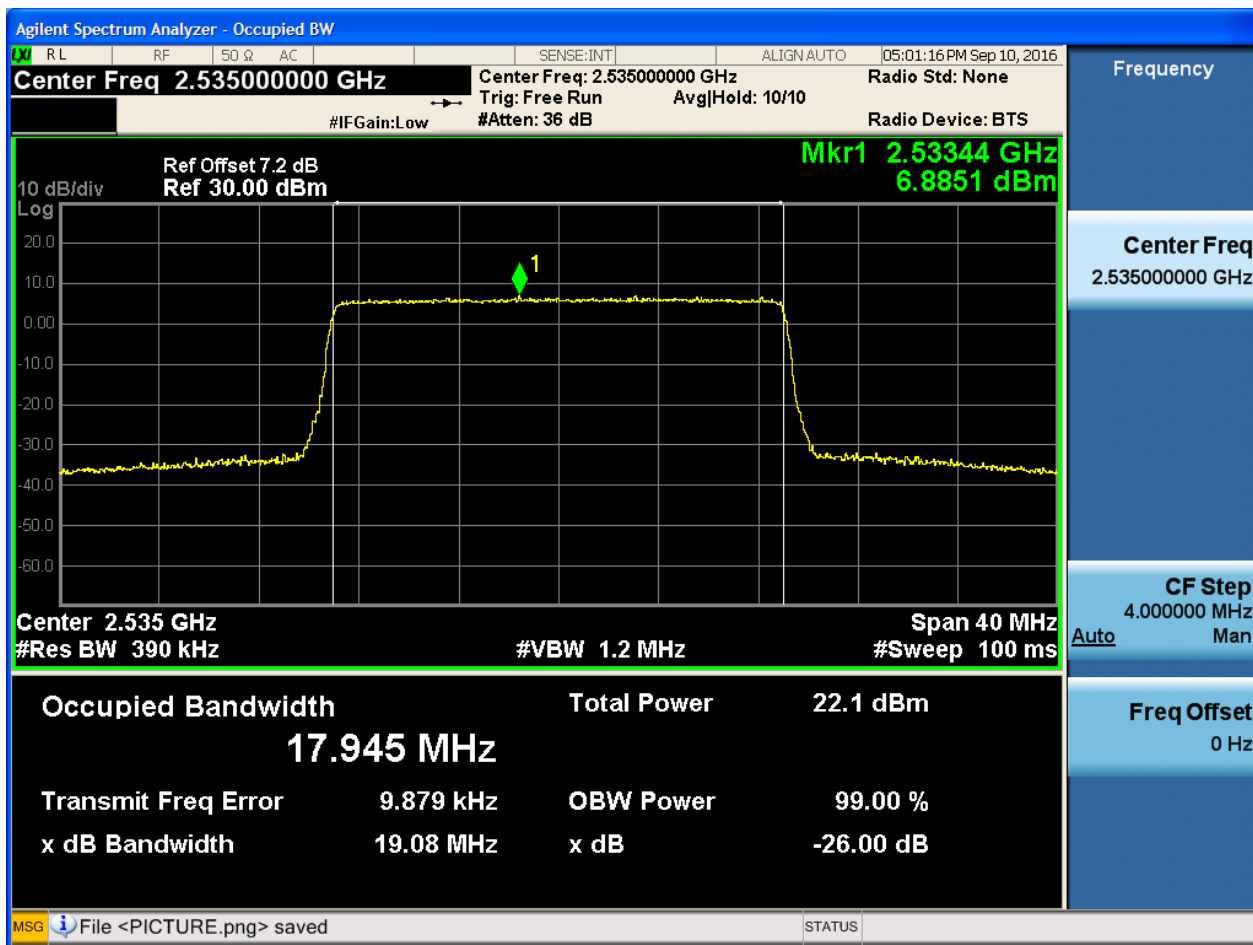
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

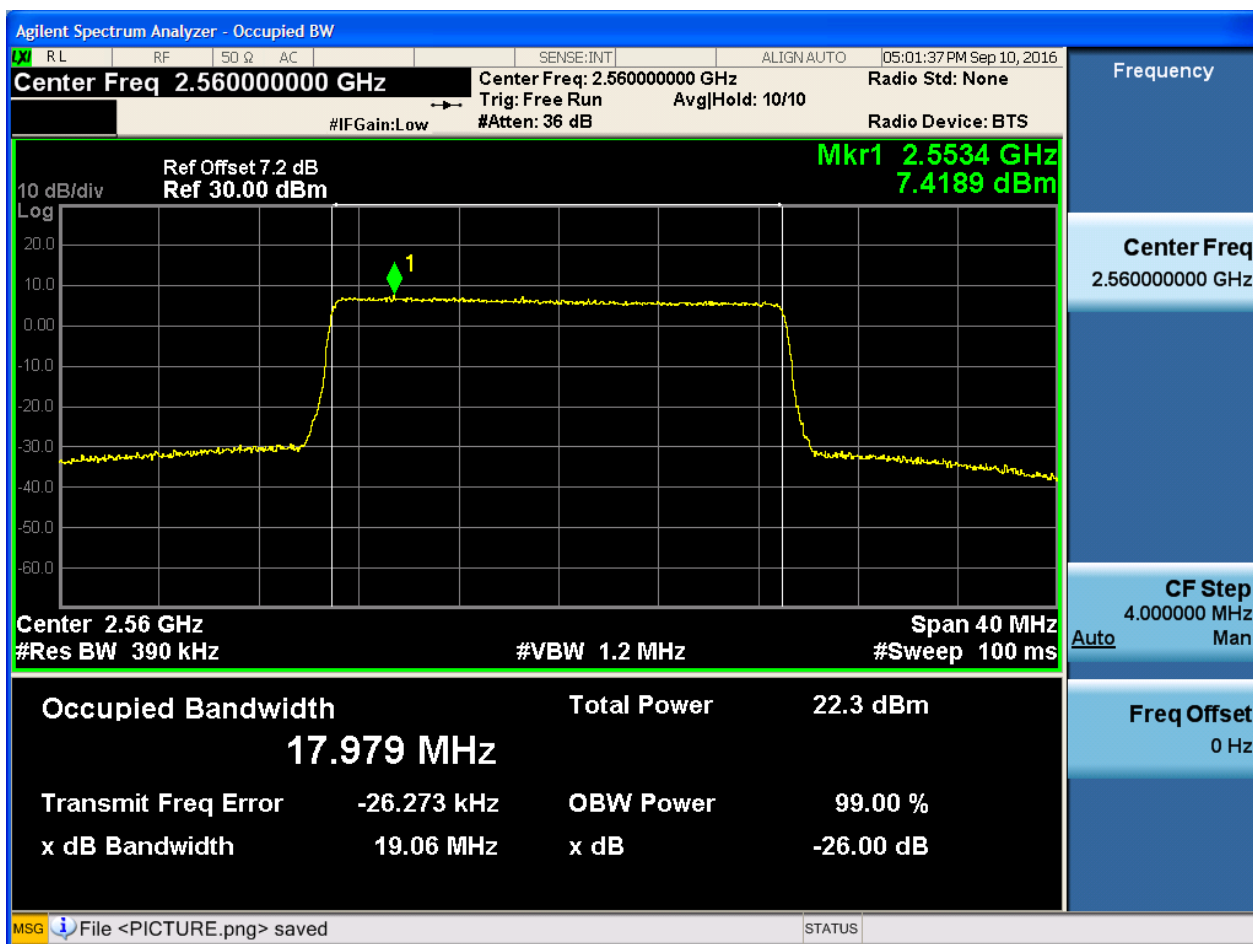
4.1.1.2.4.2.1 Test RB = RB100#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

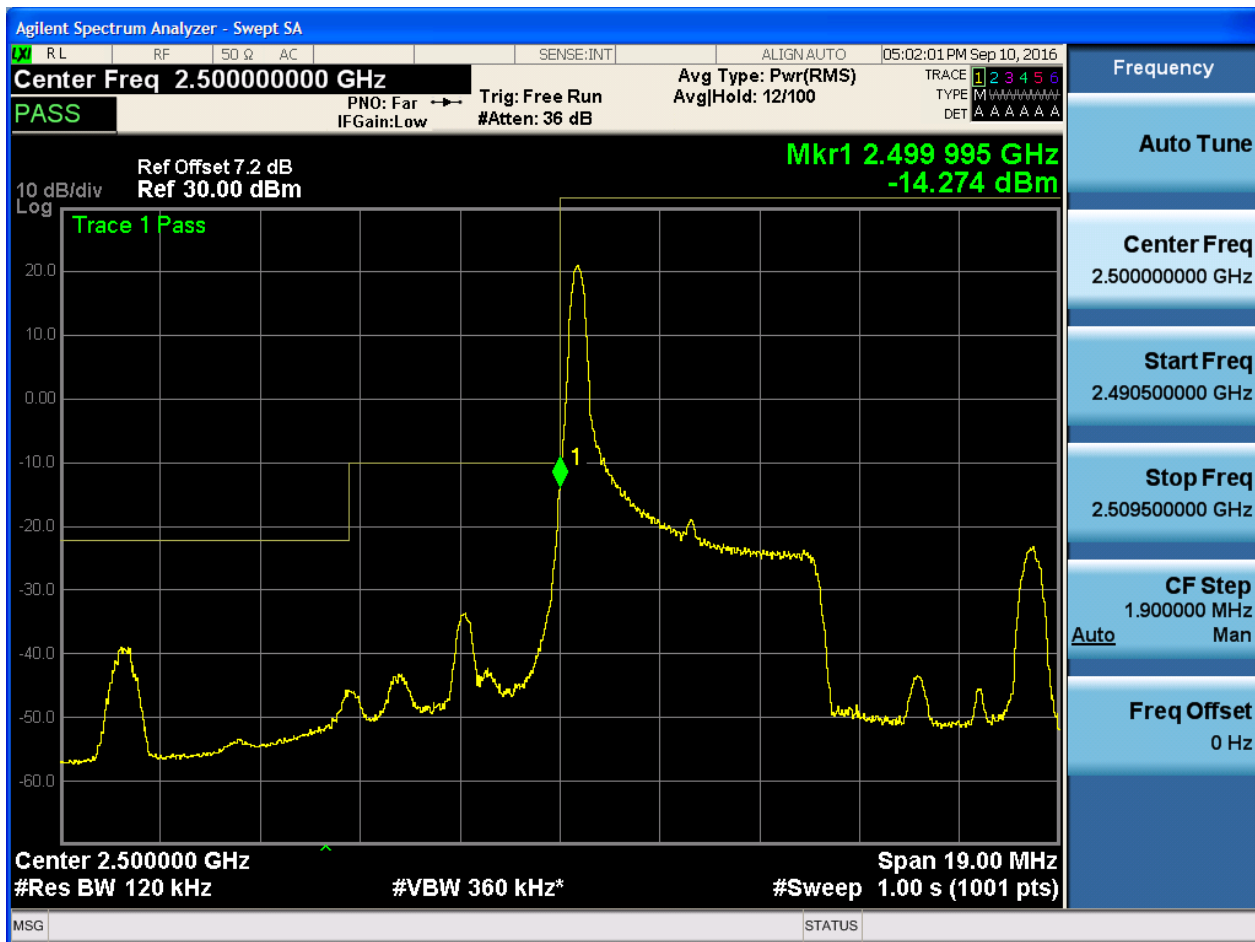
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

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

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.2 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-33.599 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.50000000 GHz

Start Freq
2.490500000 GHz

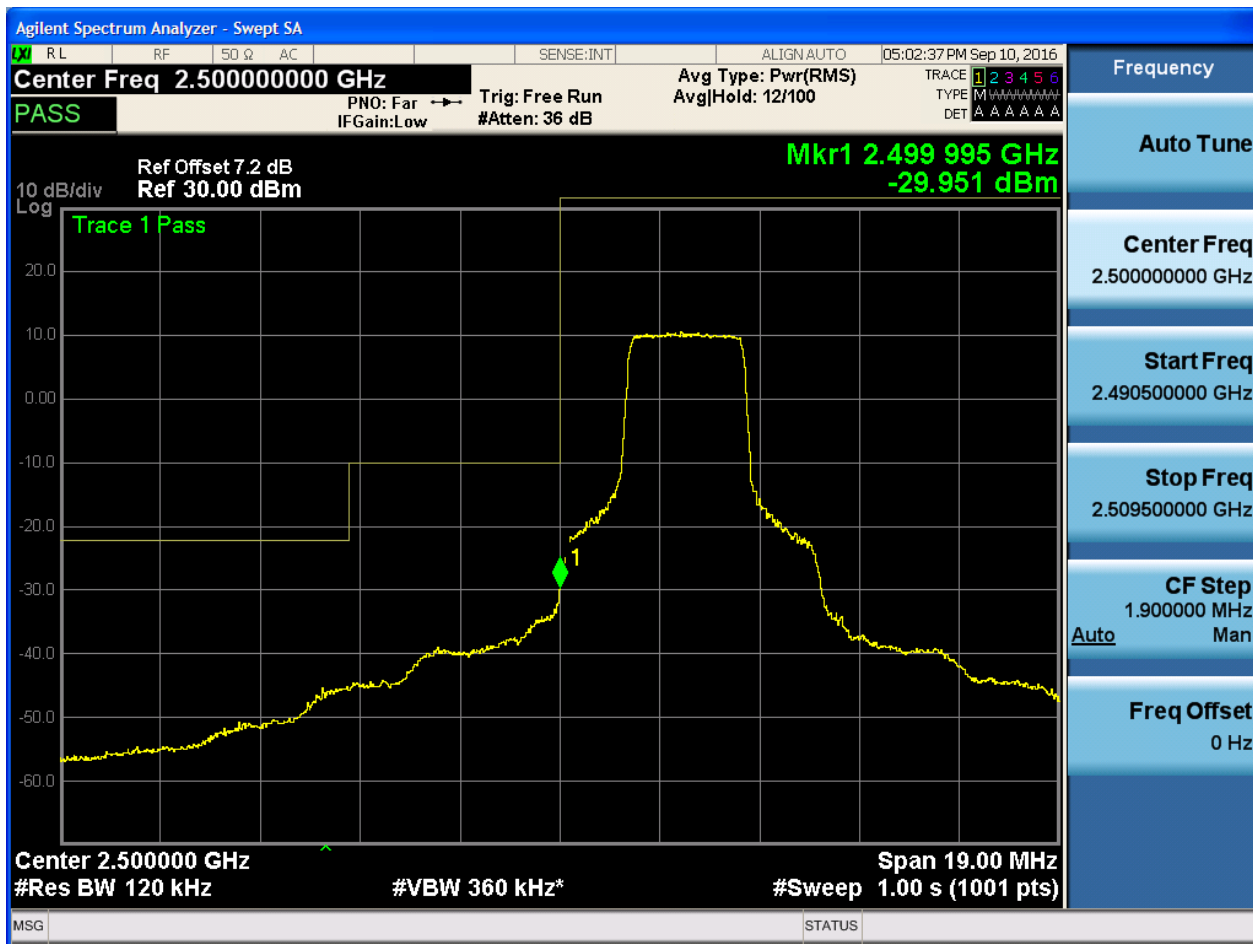
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Man

Freq Offset
0 Hz



5.1.1.1.1.3 Test RB = RB12#6



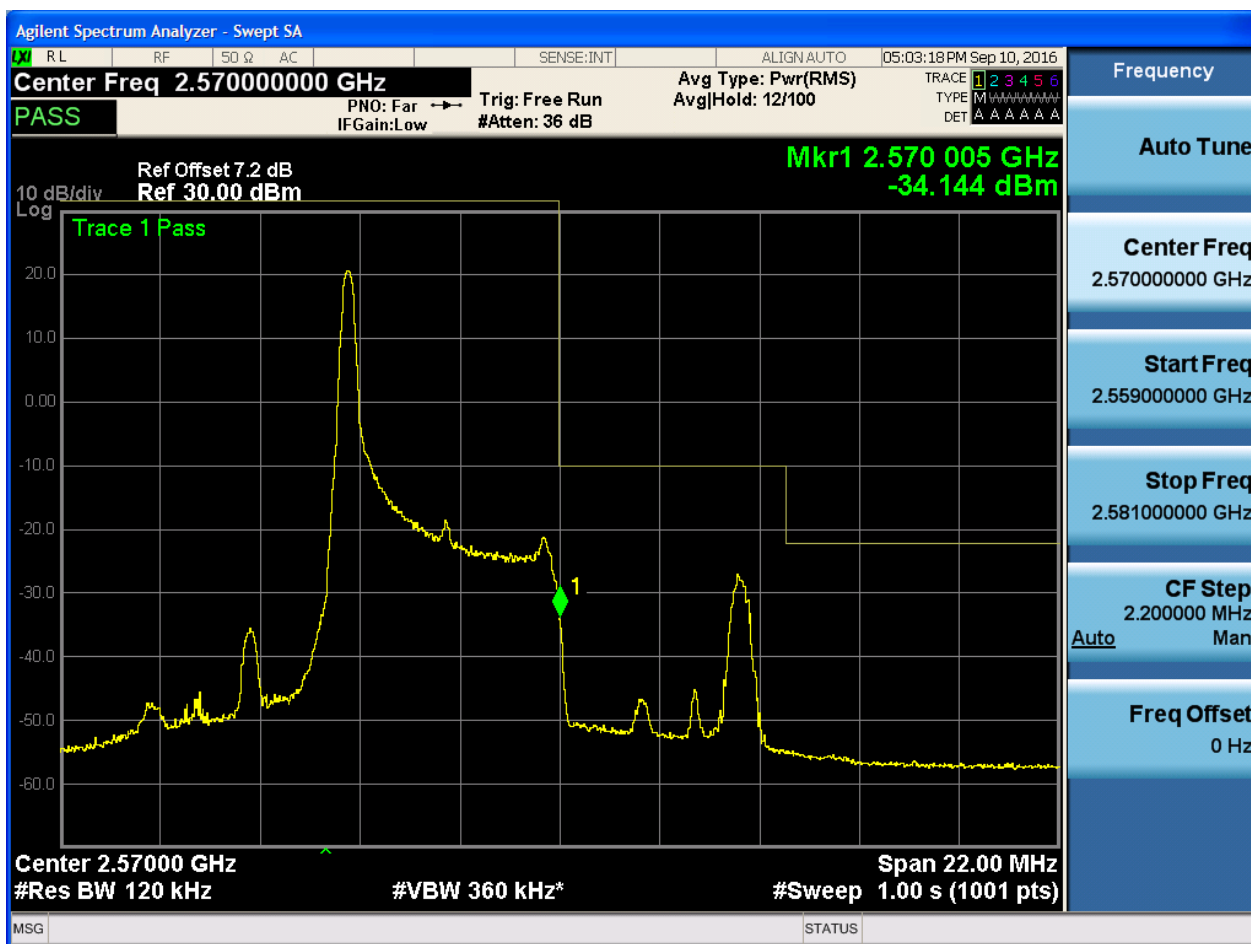


5.1.1.1.1.4 Test RB = RB25#0



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



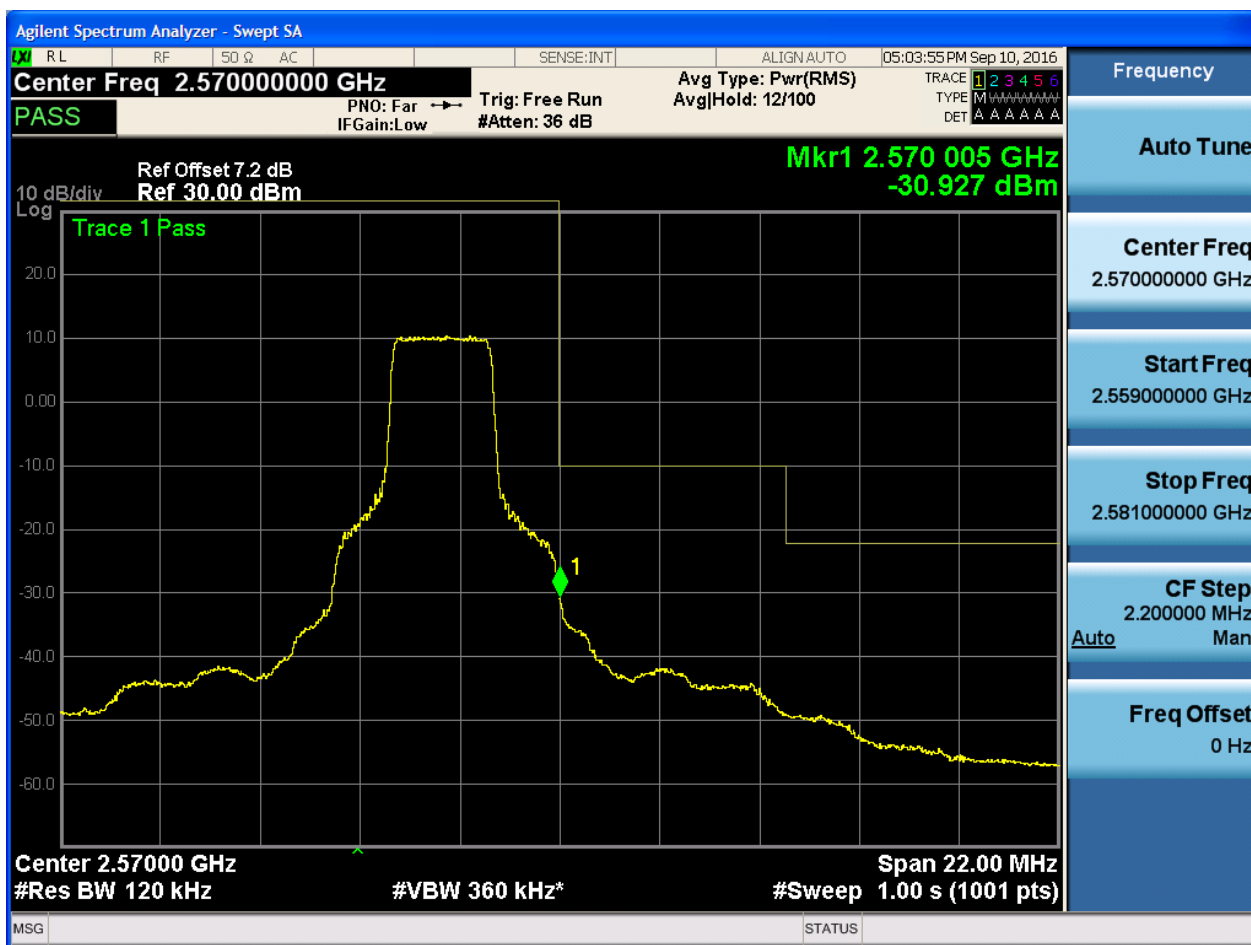


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

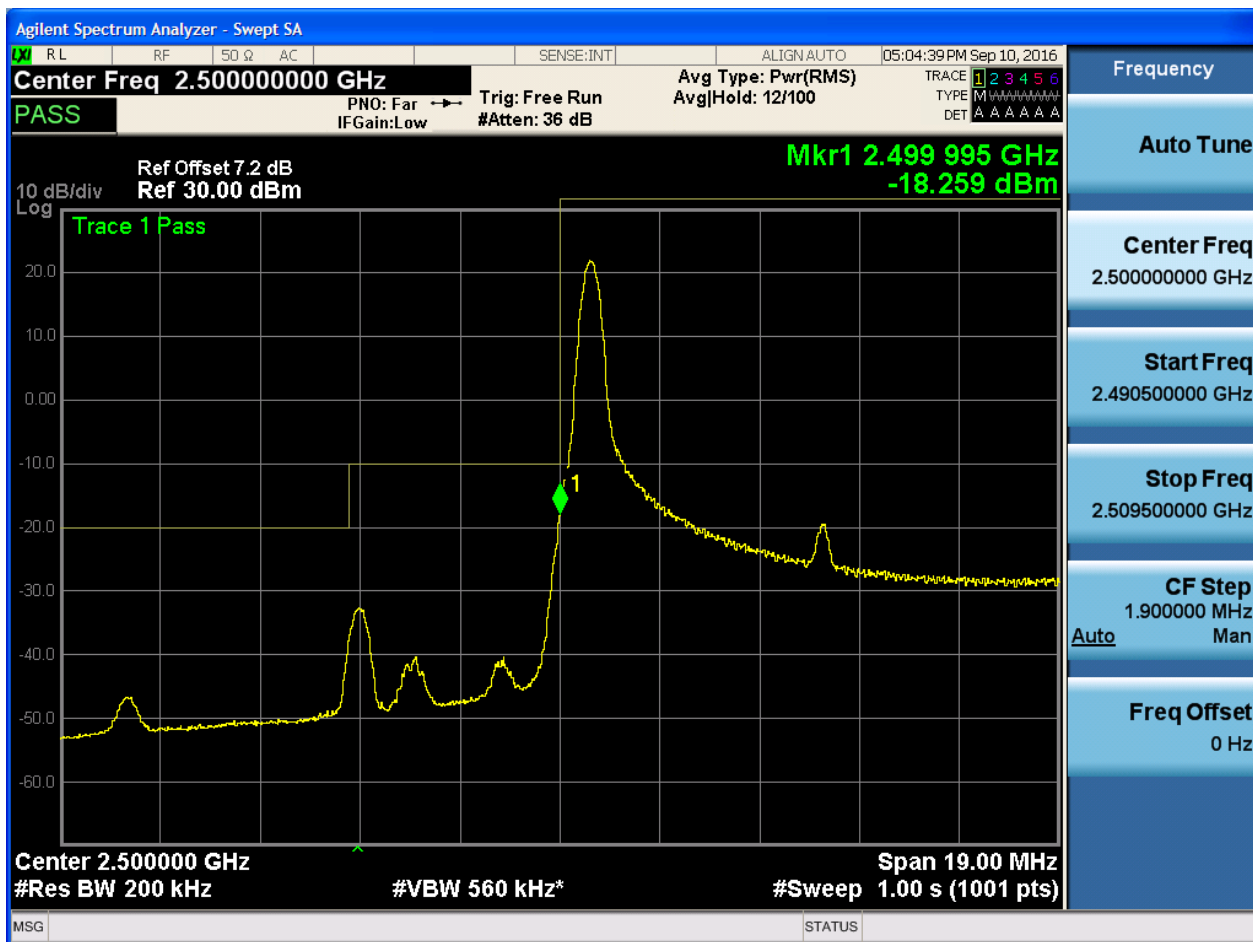




5.1.1.1.2 Test Bandwidth = 10

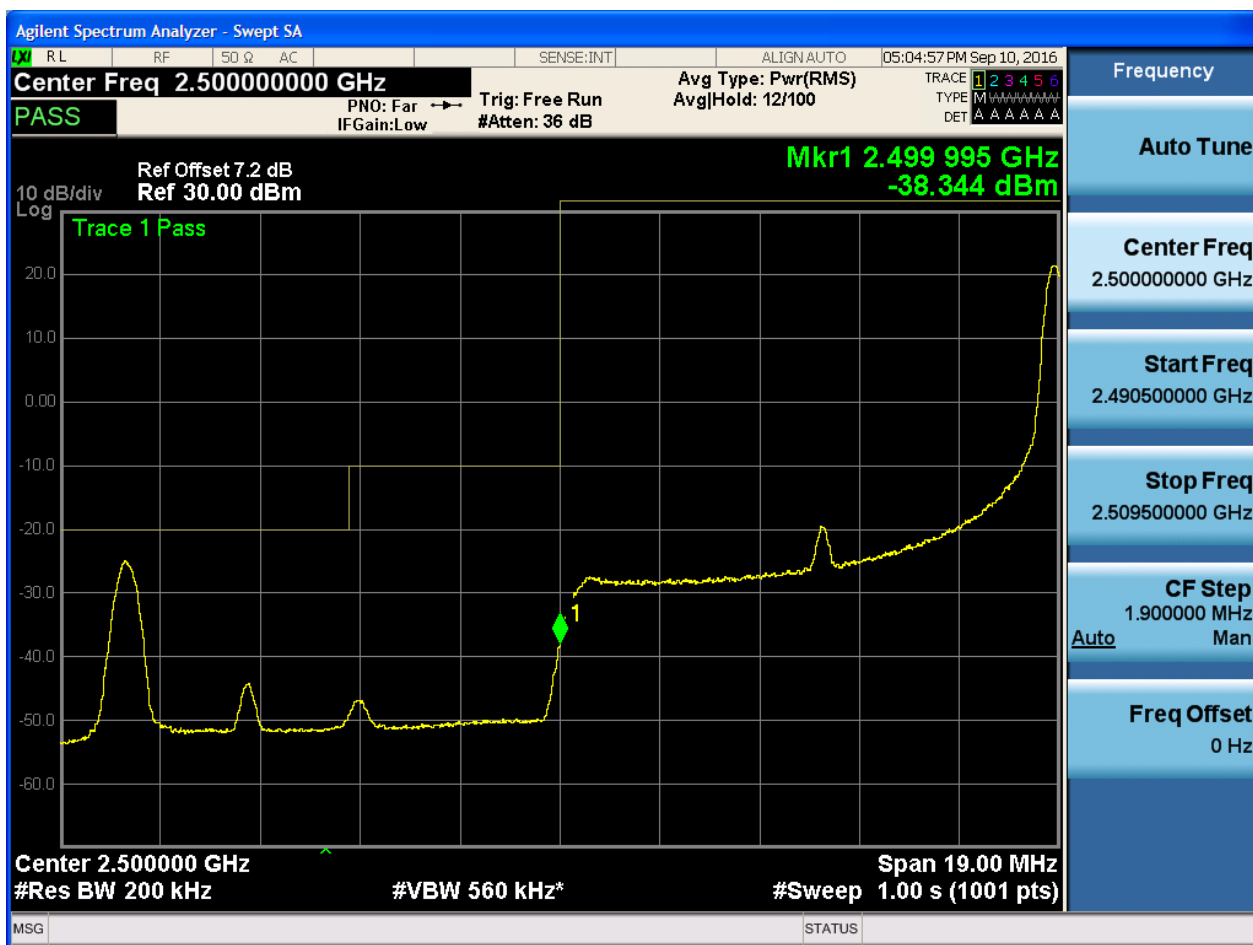
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:05:15 PM Sep 10, 2016

Center Freq 2.500000000 GHz Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
PASS PNO: Far Trig: Free Run TYPE M
IFGain:Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.2 dB Mkr1 2.499 995 GHz
Ref 30.00 dBm -33.916 dBm

10 dB/div Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 560 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

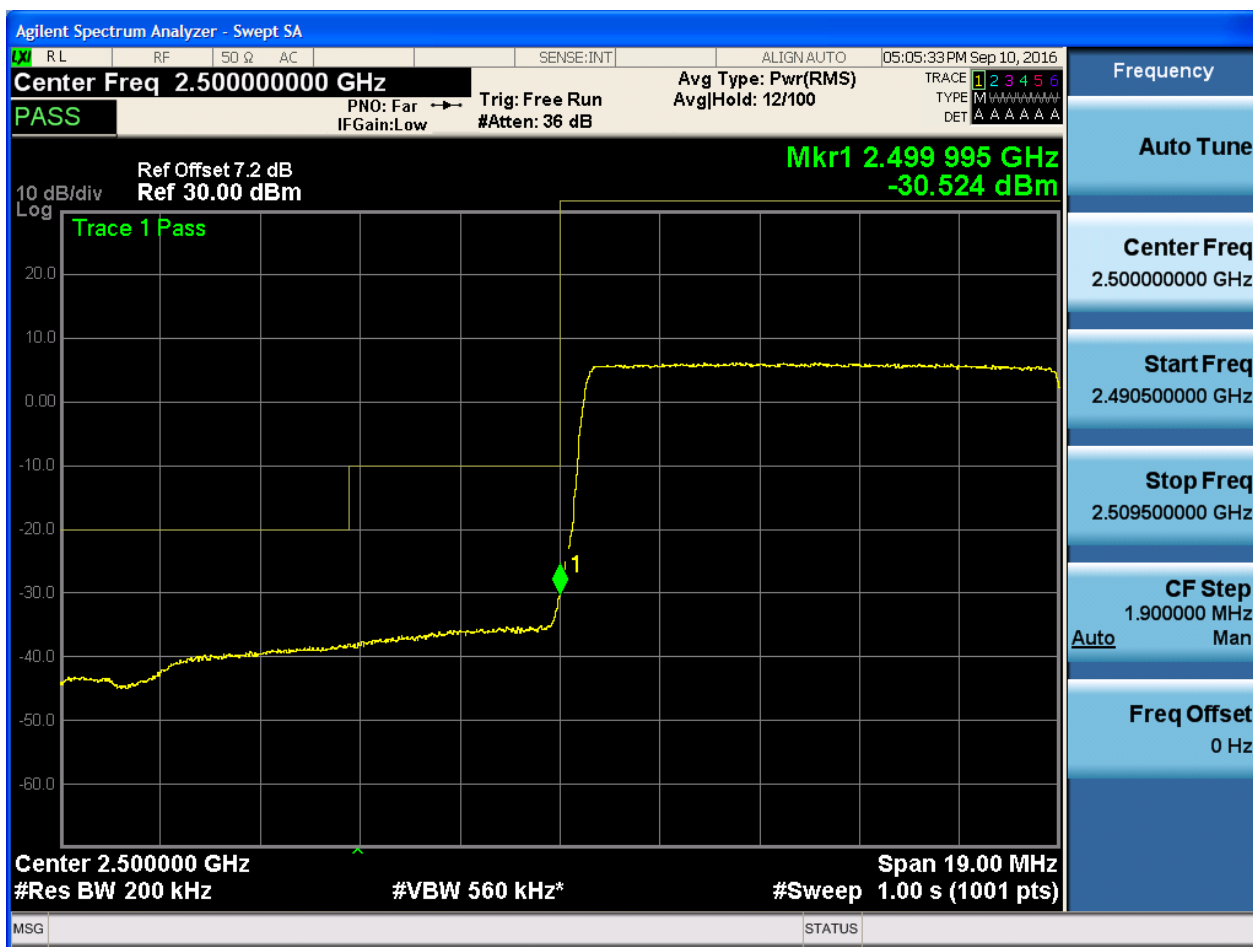
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



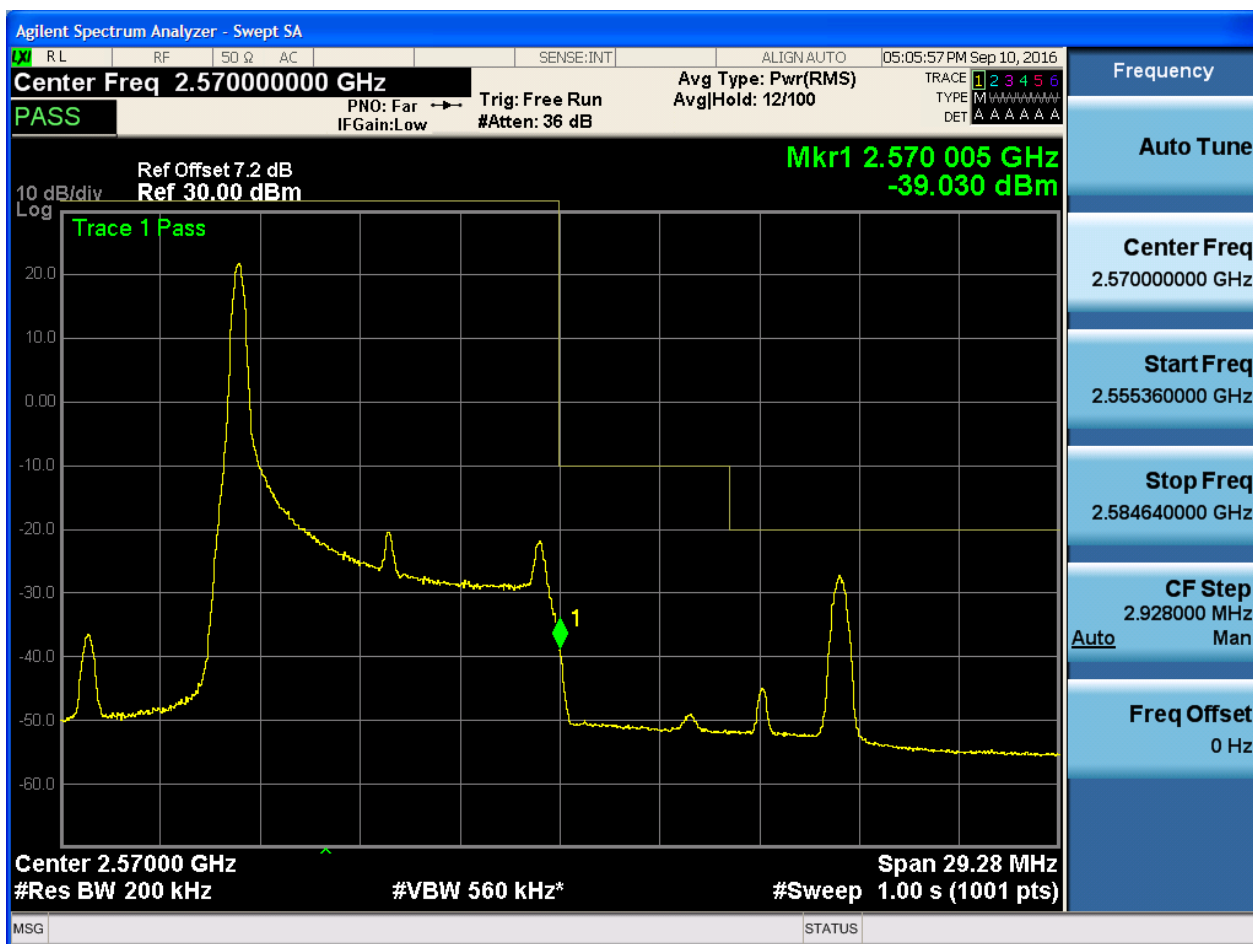
5.1.1.1.2.1.4 Test RB = RB50#0





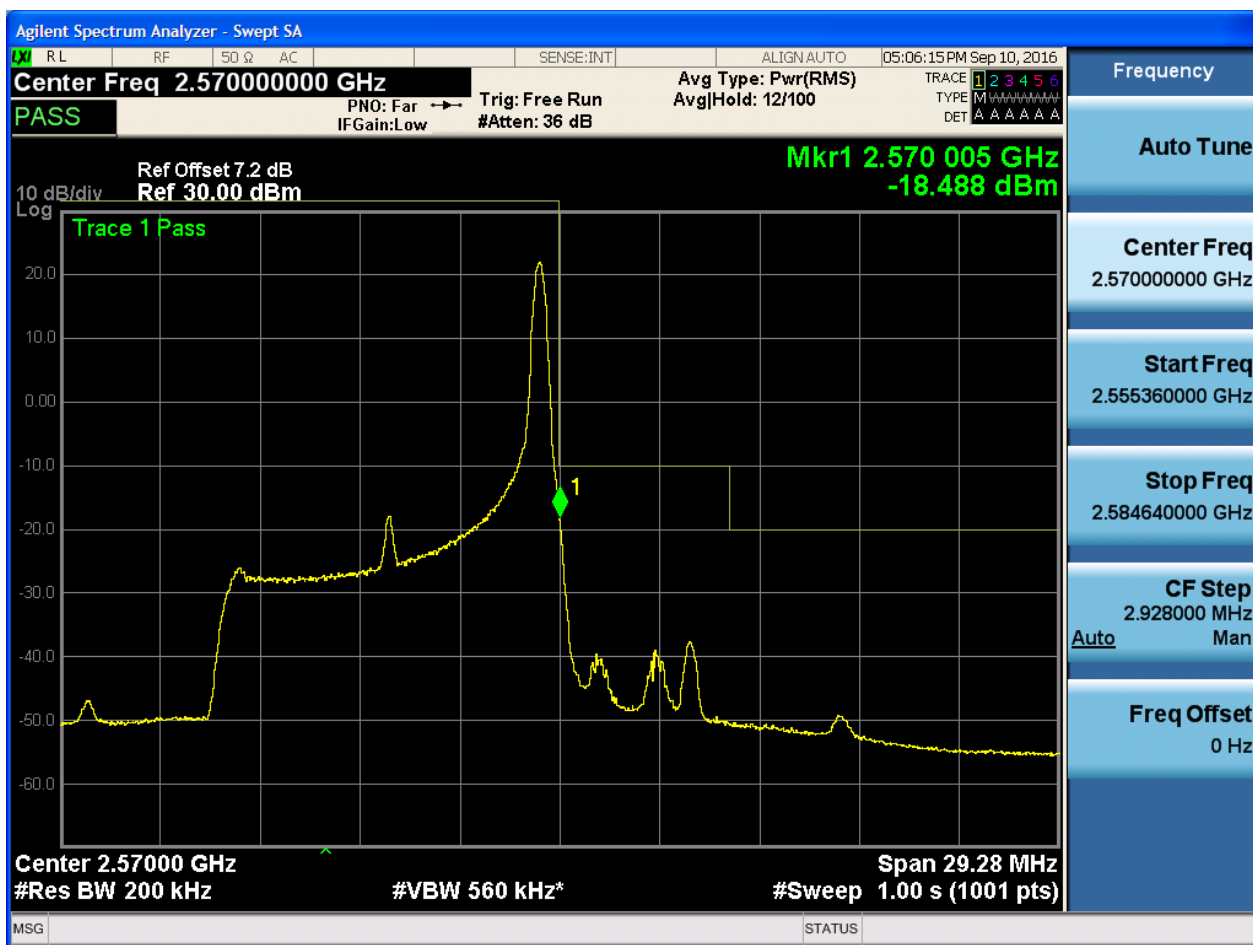
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49



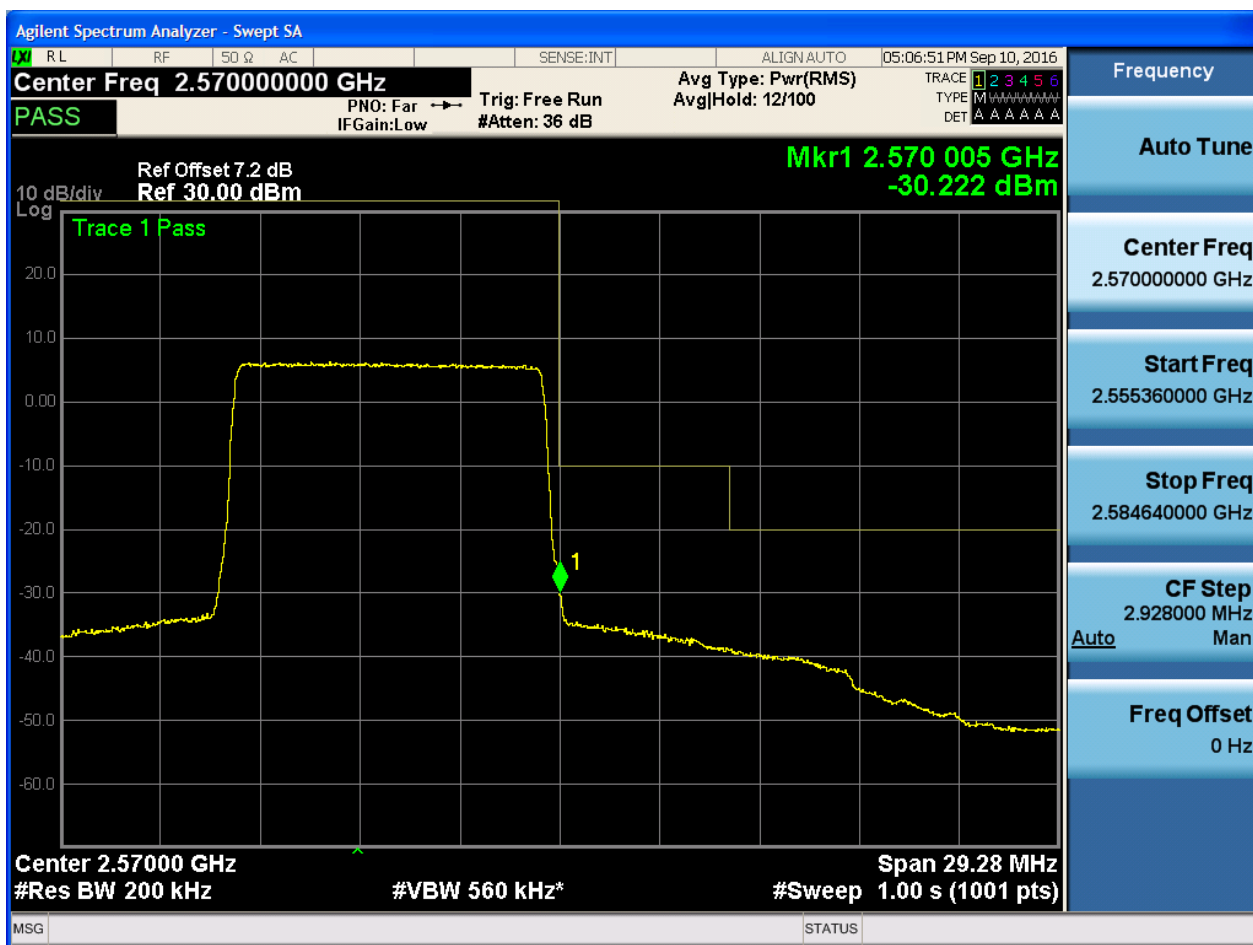


5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0

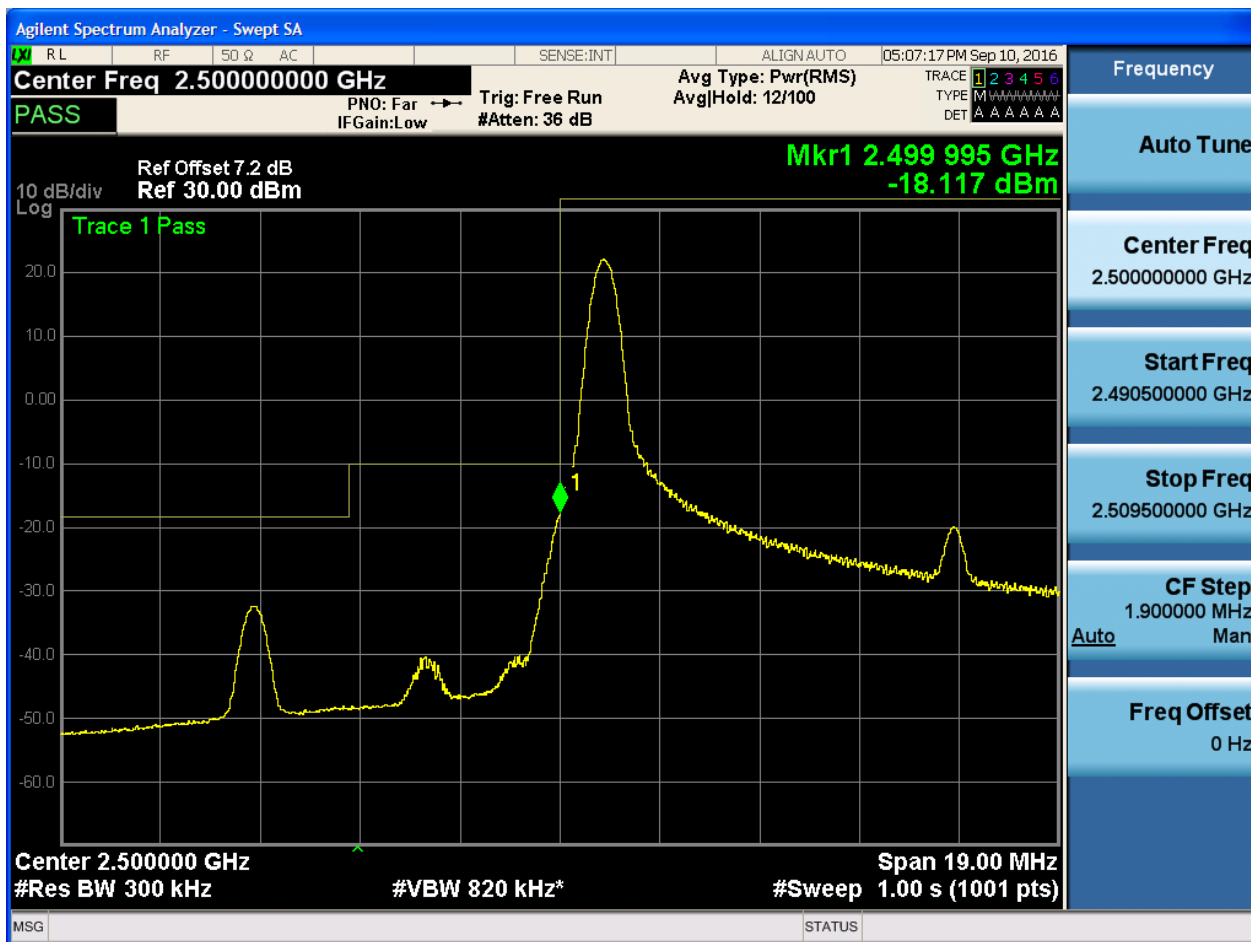




5.1.1.1.3 Test Bandwidth = 15

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#74





5.1.1.1.3.1.3 Test RB = RB36#18





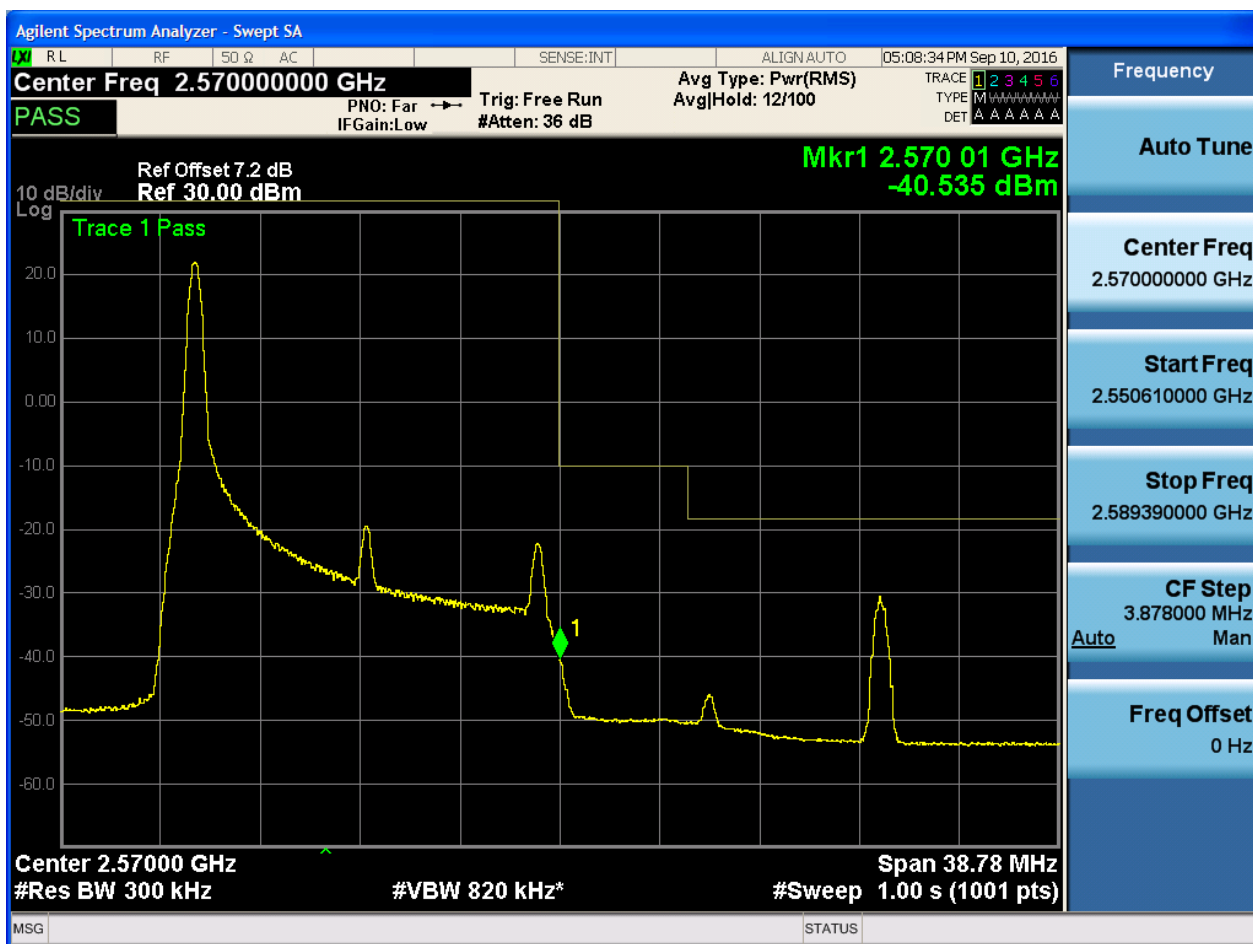
5.1.1.1.3.1.4 Test RB = RB75#0





5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.2 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.5701 GHz
-33.651 dBm

10 dB/div
Log

Center 2.5700 GHz
#Res BW 300 kHz
#VBW 820 kHz*

Span 38.78 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550610000 GHz

Stop Freq
2.589390000 GHz

CF Step
3.878000 MHz
Man

Freq Offset
0 Hz



5.1.1.1.3.2.4 Test RB = RB75#0

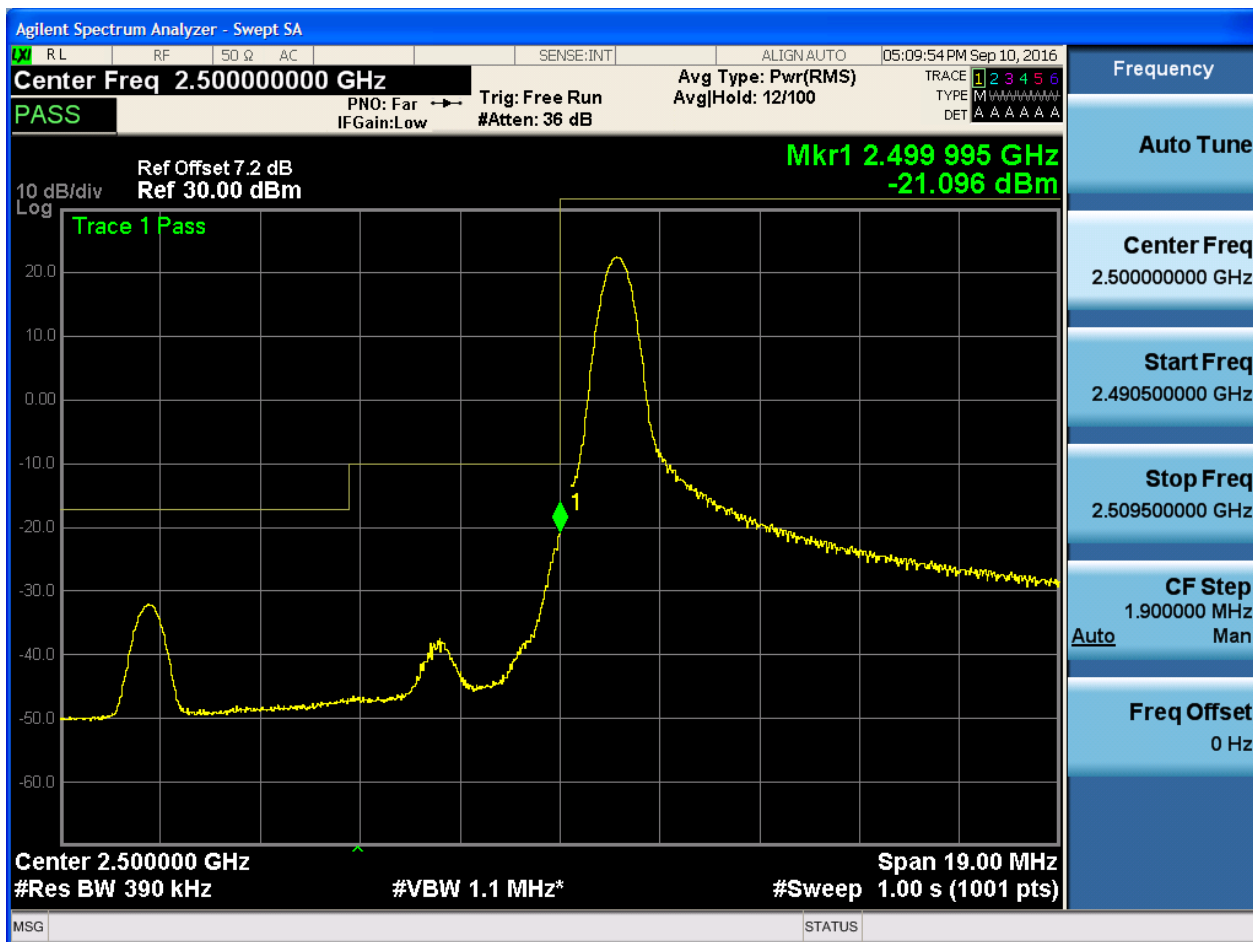




5.1.1.1.4 Test Bandwidth = 20

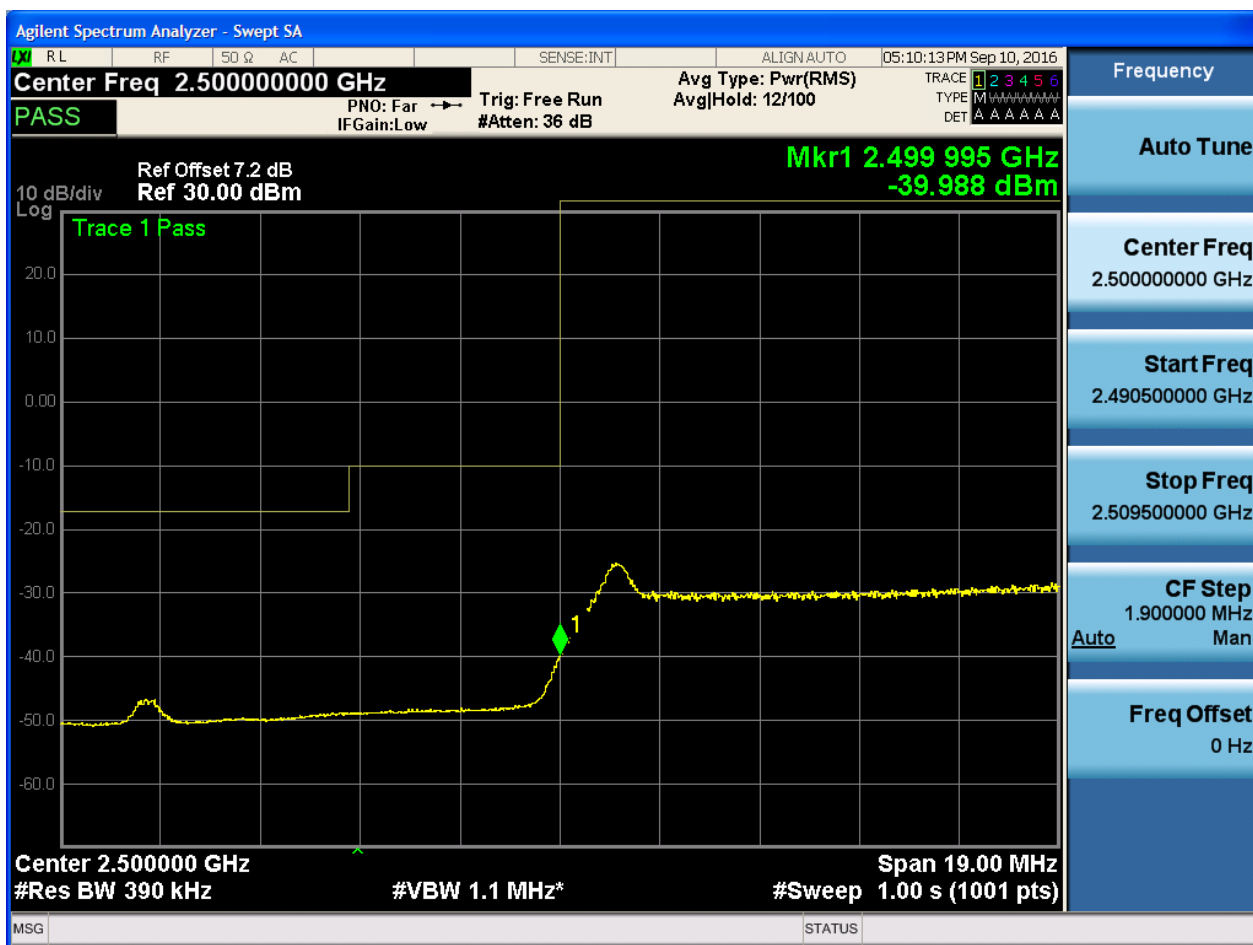
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99



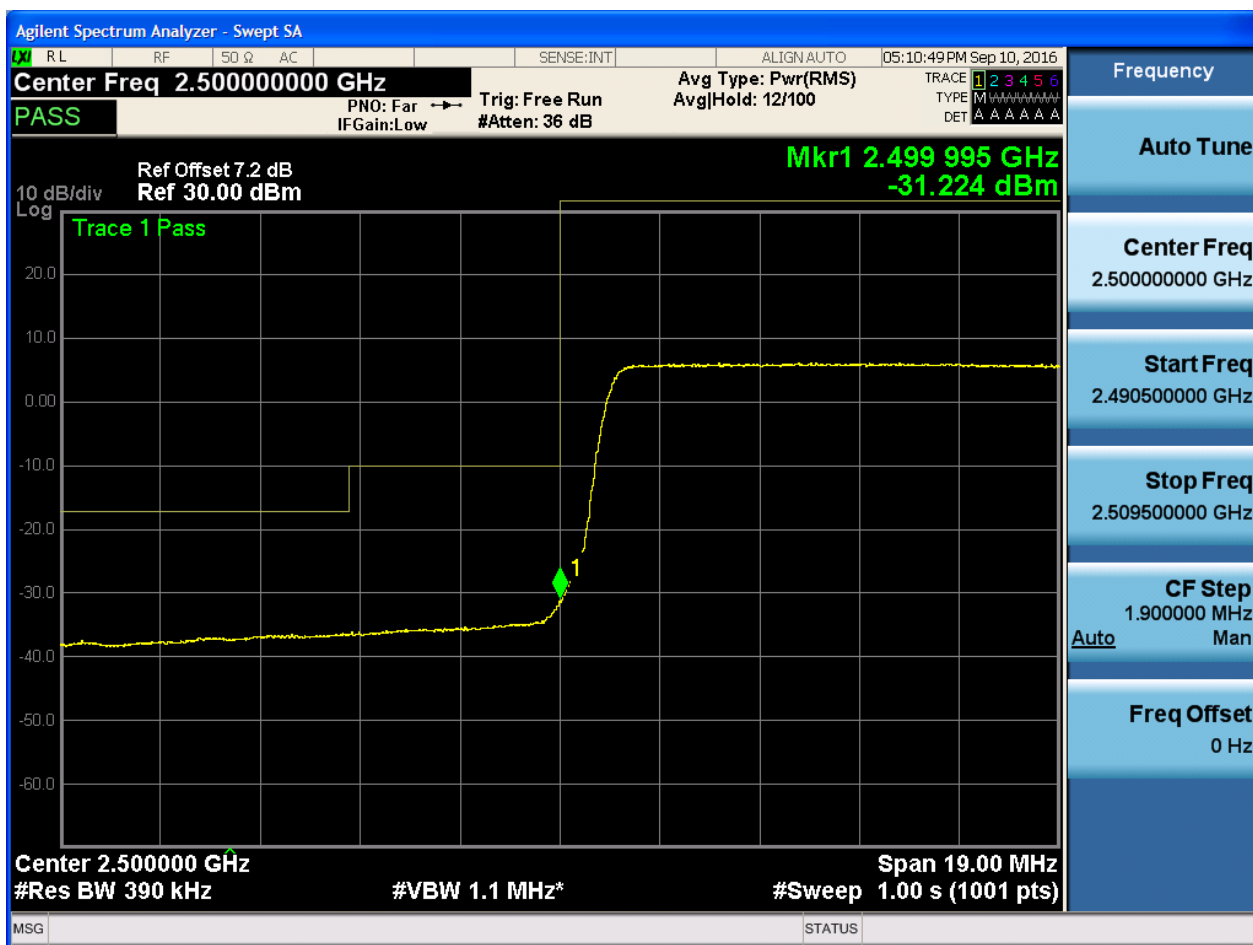


5.1.1.1.4.1.3 Test RB = RB50#25





5.1.1.1.4.1.4 Test RB = RB100#0





5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.2 dB
Ref 30.00 dBm

Mkr1 2.5701 GHz
-34.693 dBm

Trace 1 Pass

Center 2.57000 GHz
#Res BW 390 kHz

Span 48.14 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.545930000 GHz

Stop Freq
2.594070000 GHz

CF Step
4.814000 MHz
Man

Freq Offset
0 Hz



5.1.1.1.4.2.4 Test RB = RB100#0



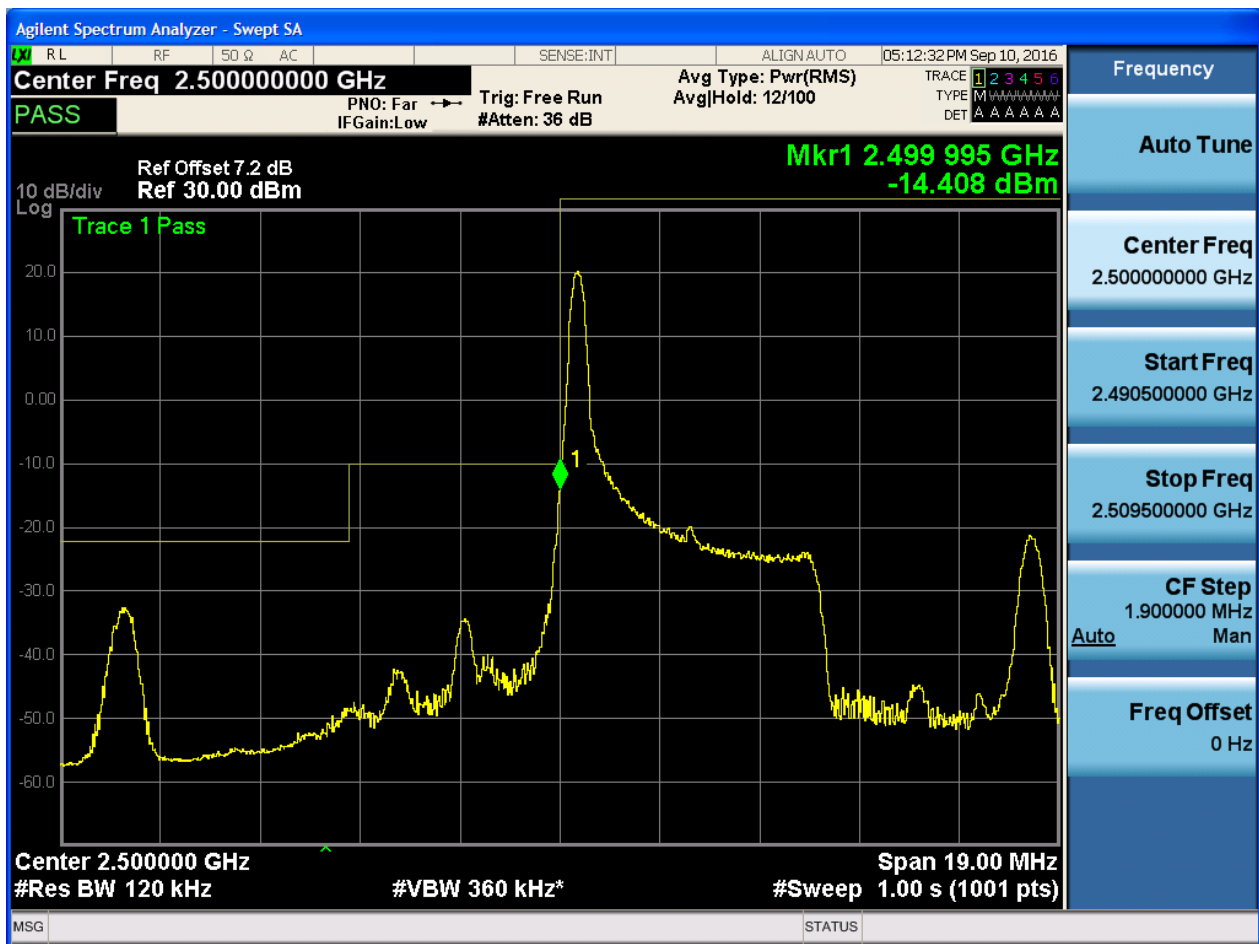


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

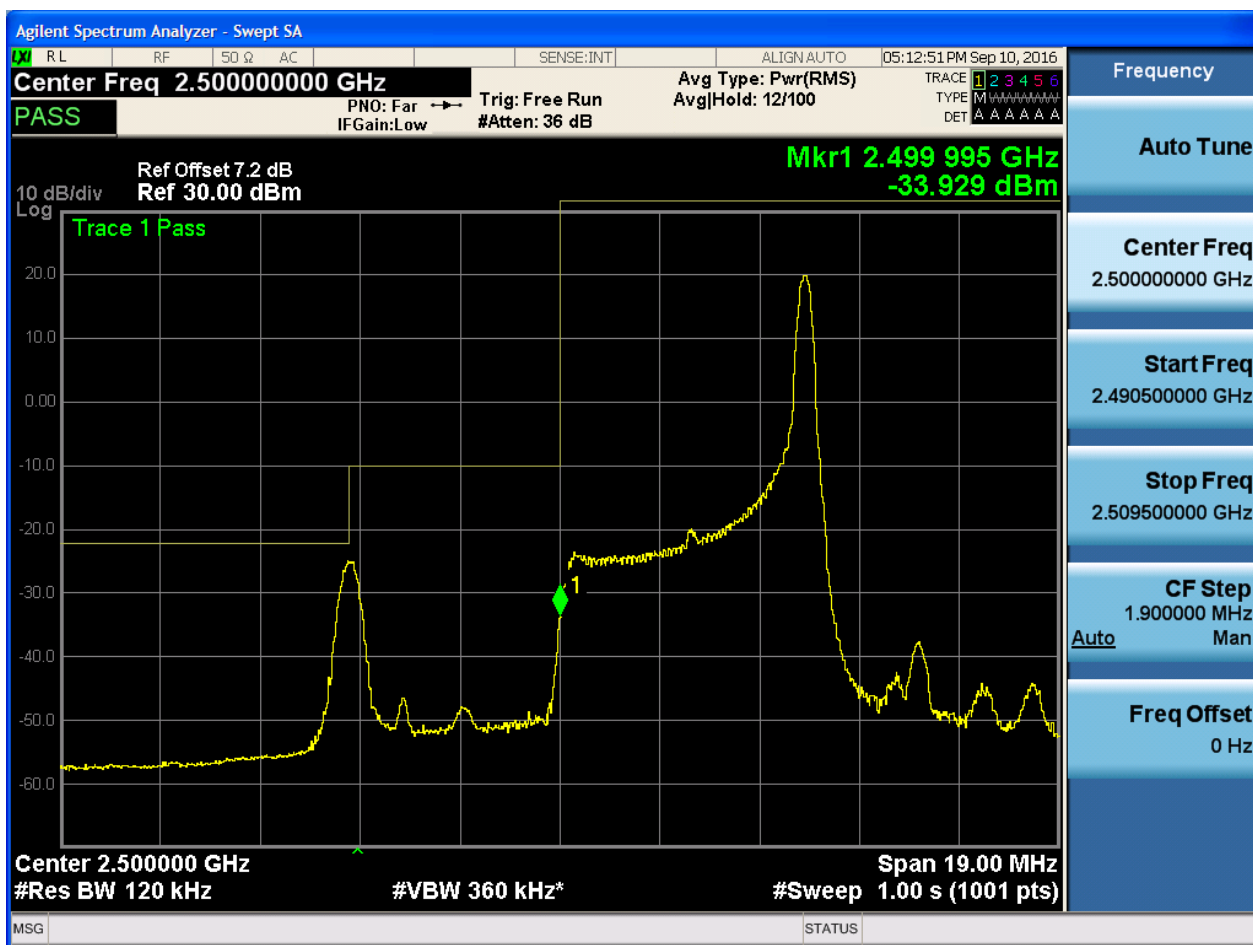
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



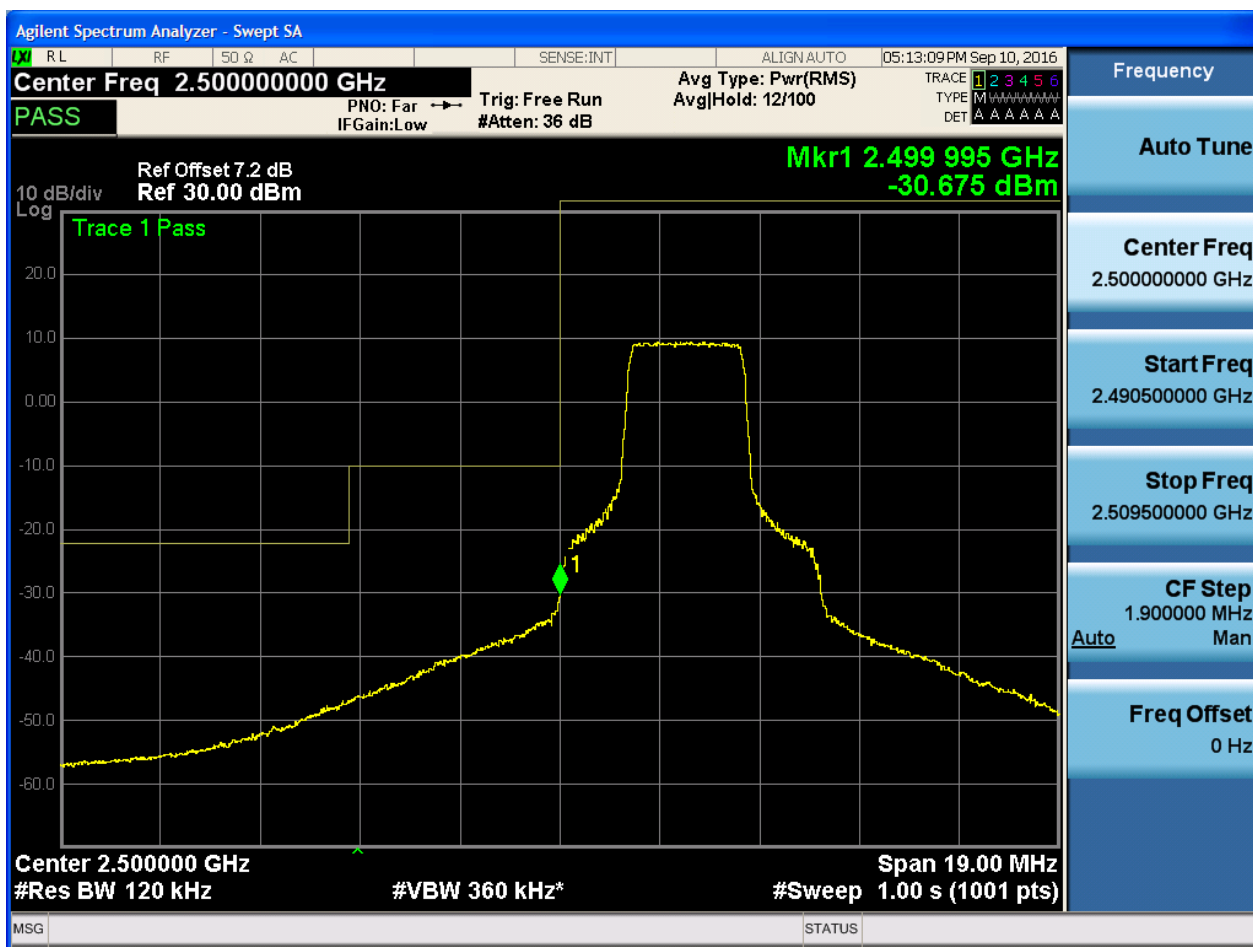


5.1.1.2.1.1.2 Test RB = RB1#24



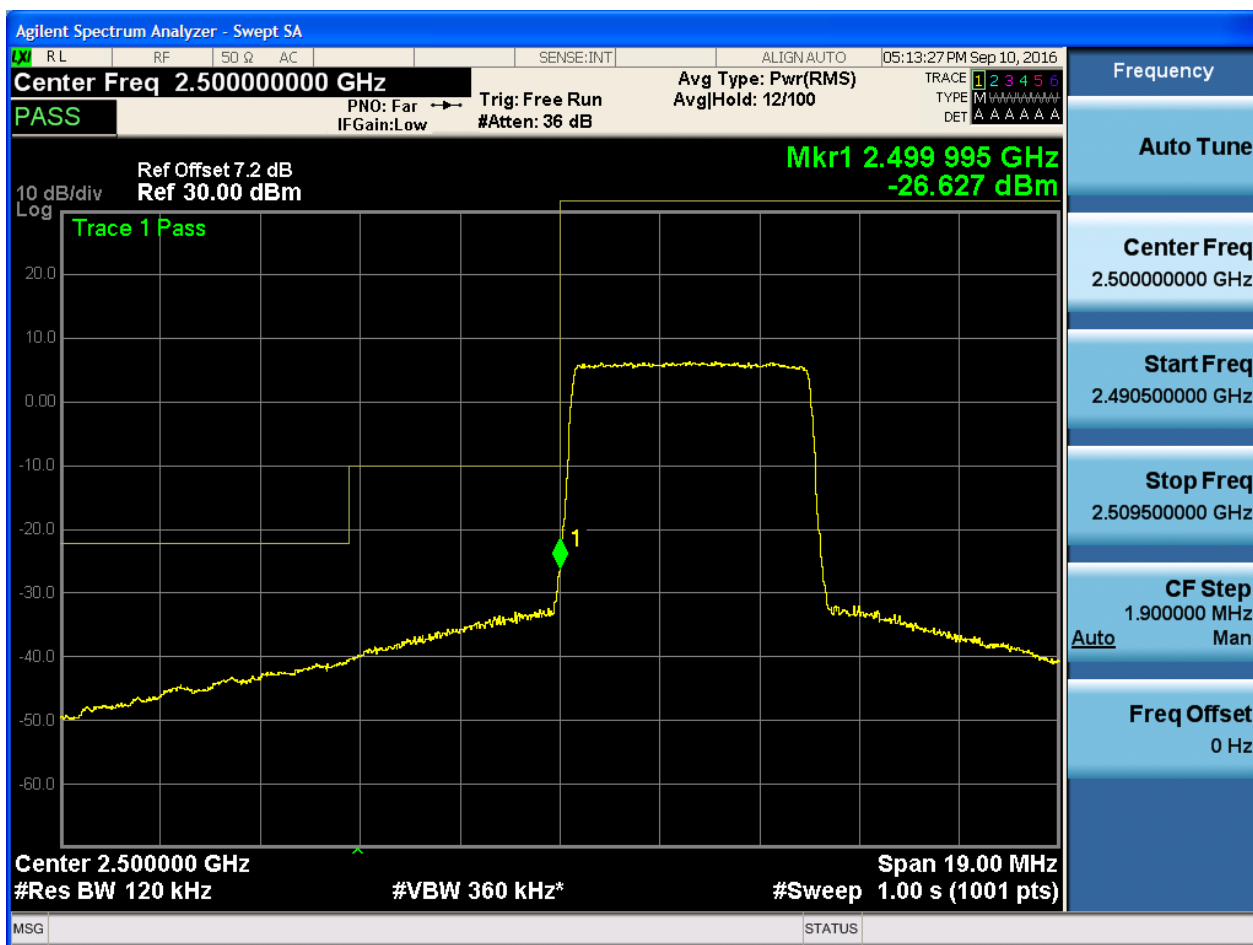


5.1.1.2.1.1.3 Test RB = RB12#6





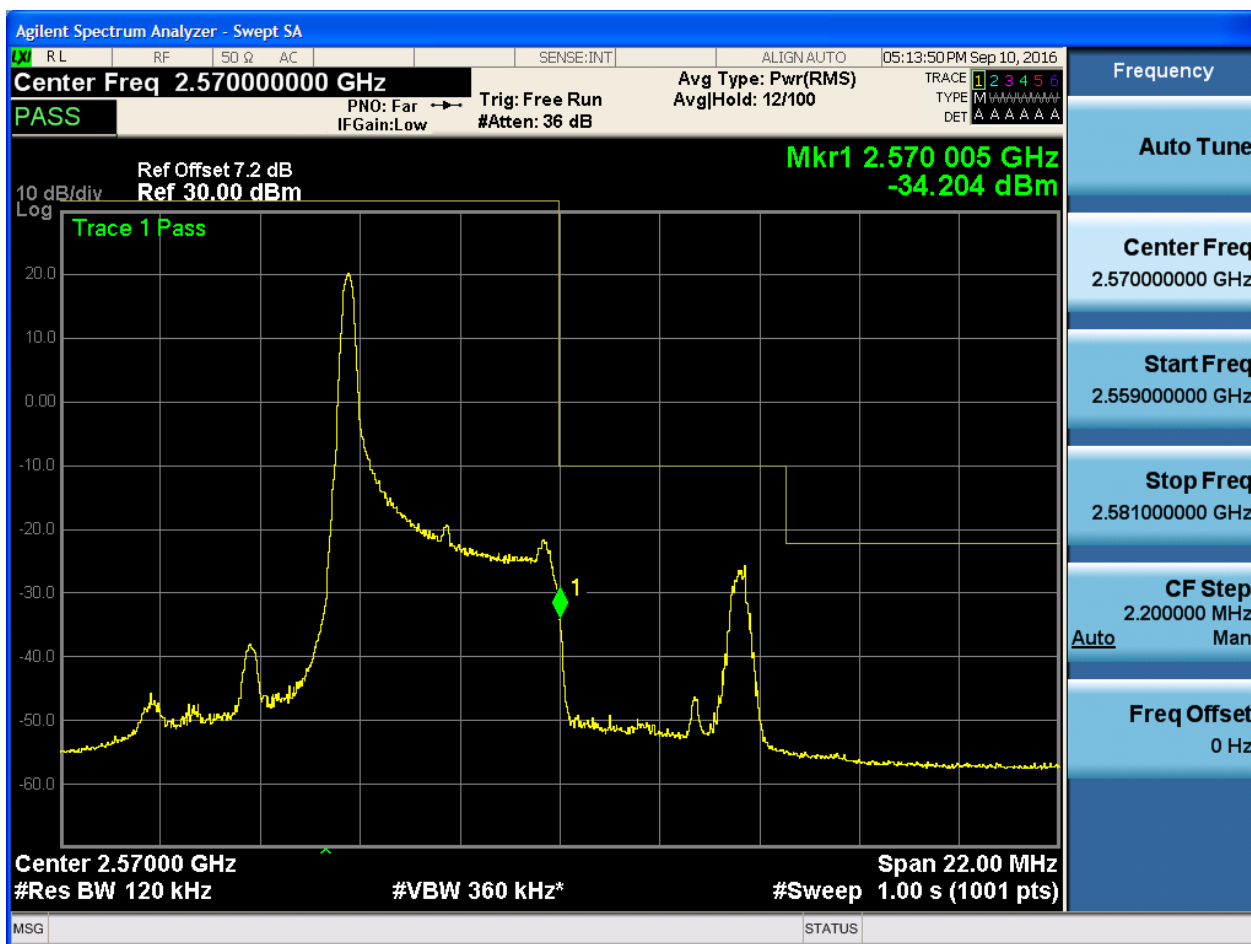
5.1.1.2.1.1.4 Test RB = RB25#0





5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



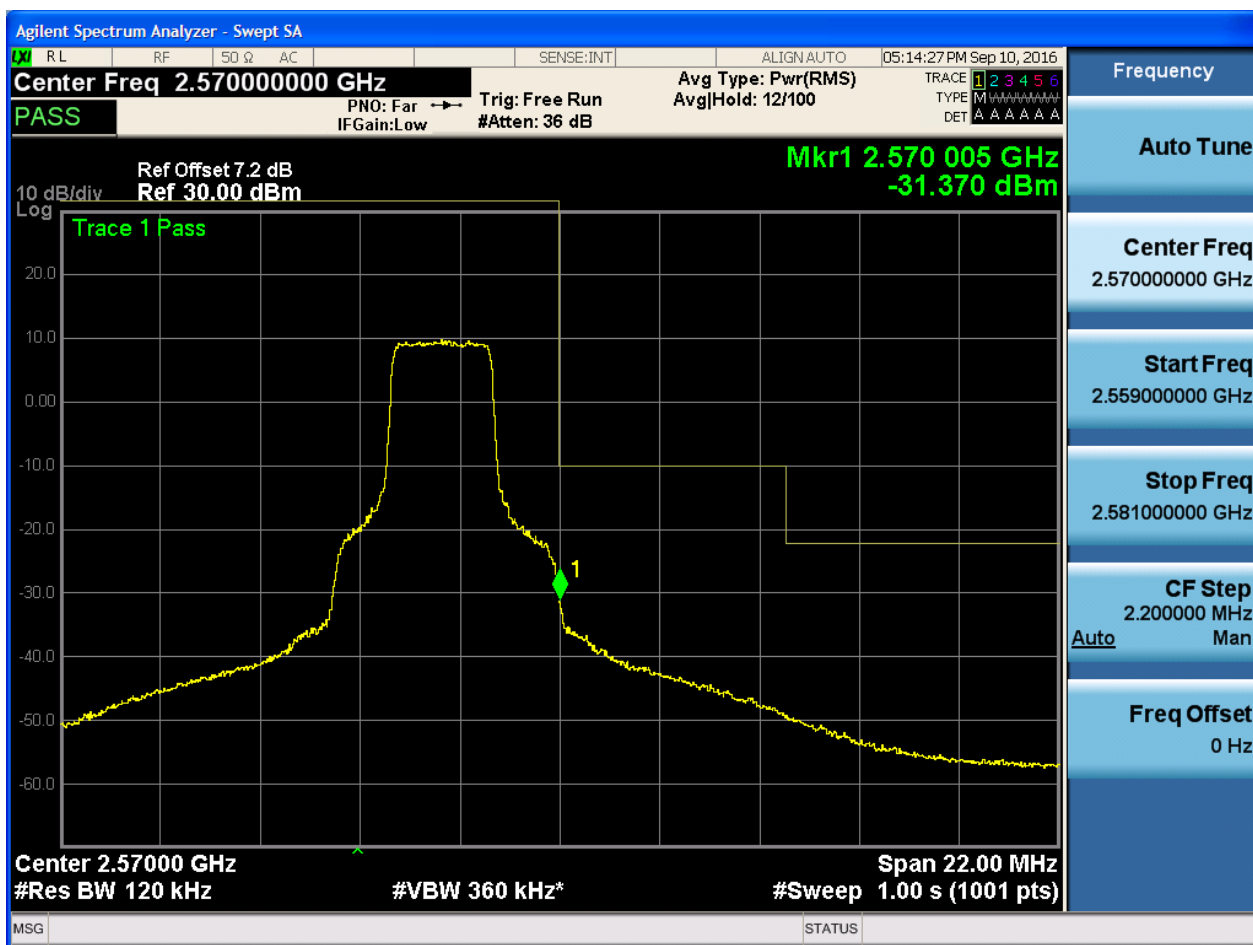


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





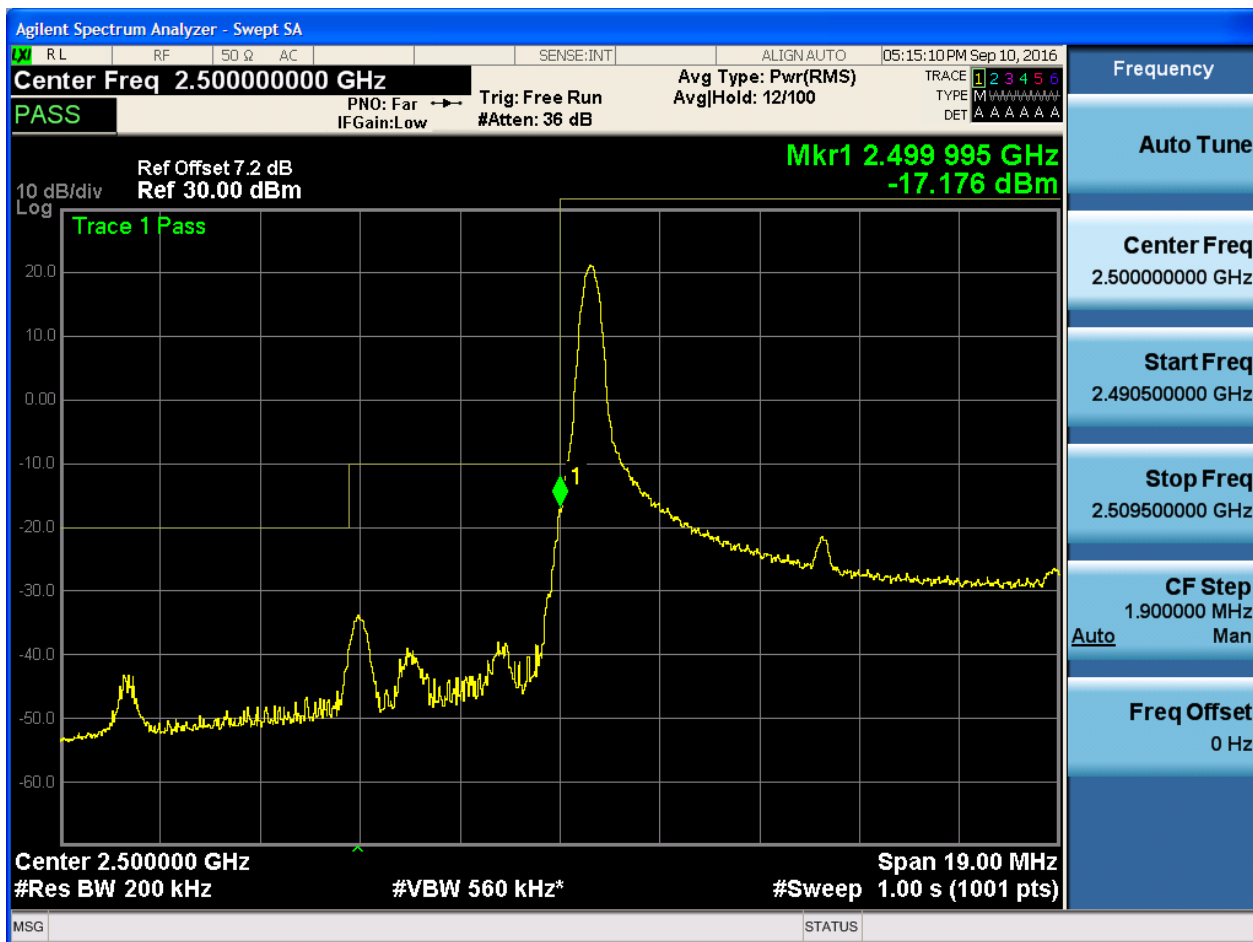
5.1.1.2.1.2.4 Test RB = RB25#0



5.1.1.2.2 Test Bandwidth = 10

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 05:15:29 PM Sep 10, 2016

Center Freq 2.50000000 GHz Avg Type: Pwr(RMS) Avg|Hold: 12/100

PASS PNO: Far 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 7.2 dB Ref 30.00 dBm

Mkr1 2.499 995 GHz -38.439 dBm

10 dB/div Log

Trace 1 Pass

Center 2.500000 GHz #Res BW 200 kHz #VBW 560 kHz* Span 19.00 MHz #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq 2.50000000 GHz

Start Freq 2.490500000 GHz

Stop Freq 2.509500000 GHz

CF Step 1.900000 MHz Man

Auto

Freq Offset 0 Hz

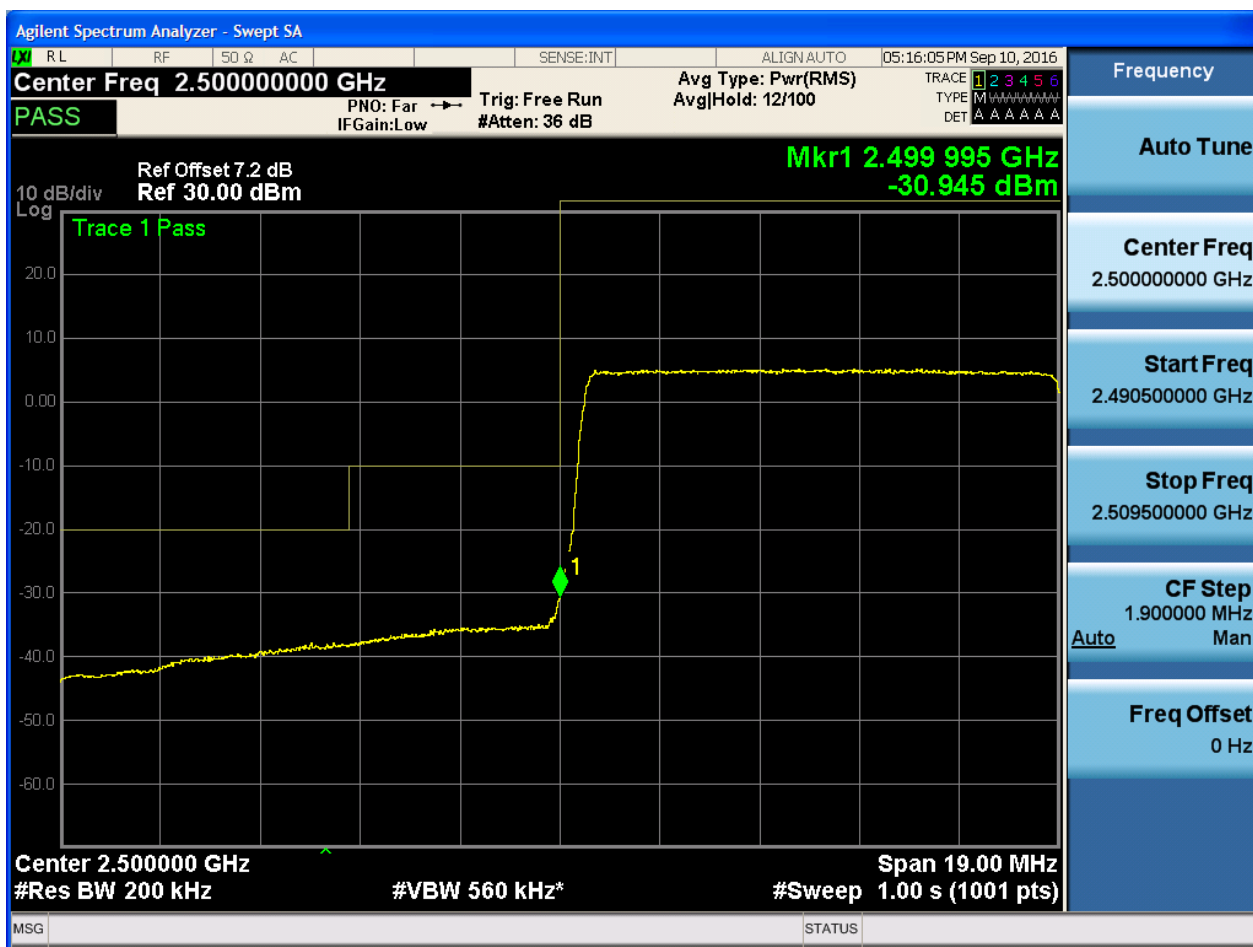


5.1.1.2.2.1.3 Test RB = RB25#13





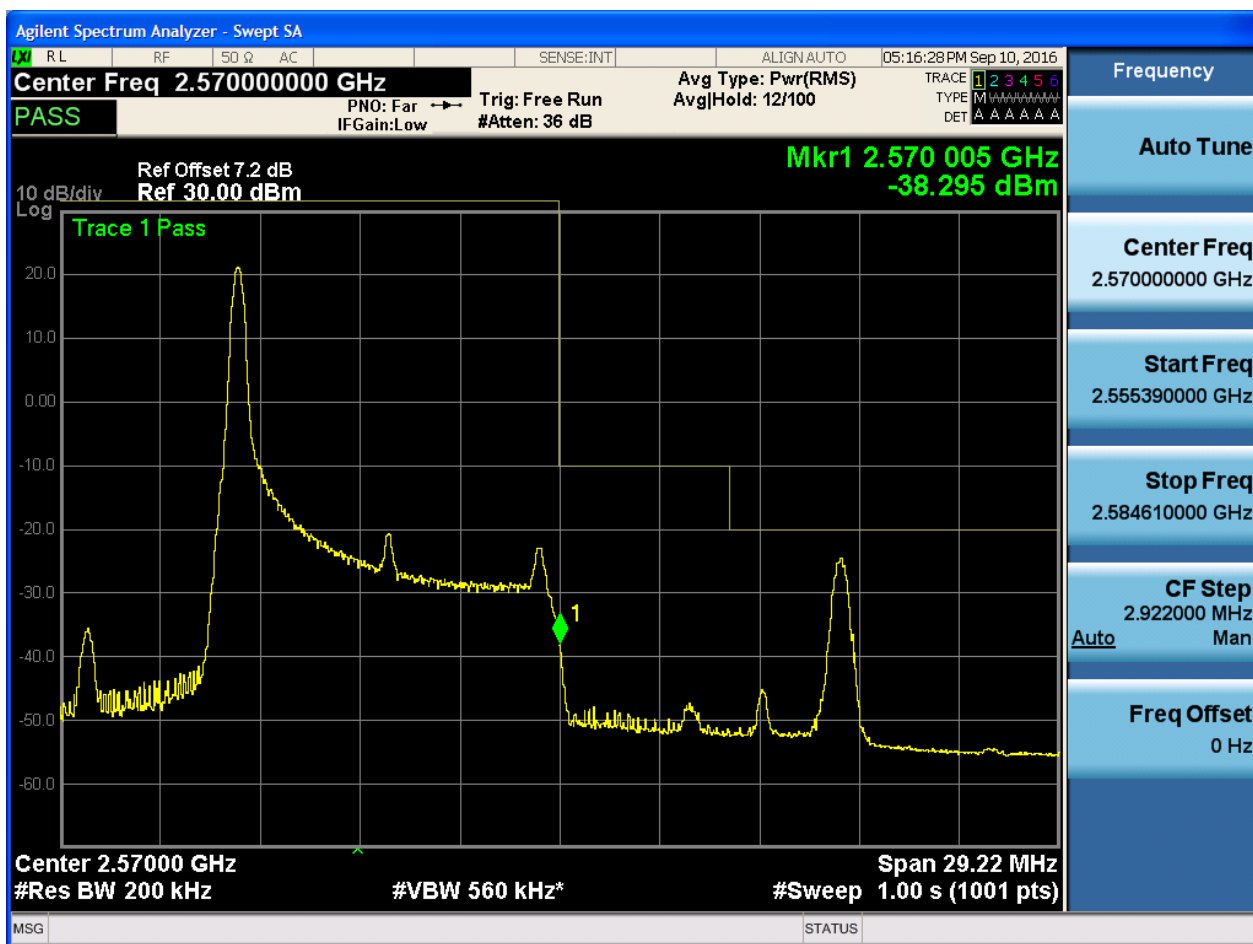
5.1.1.2.2.1.4 Test RB = RB50#0





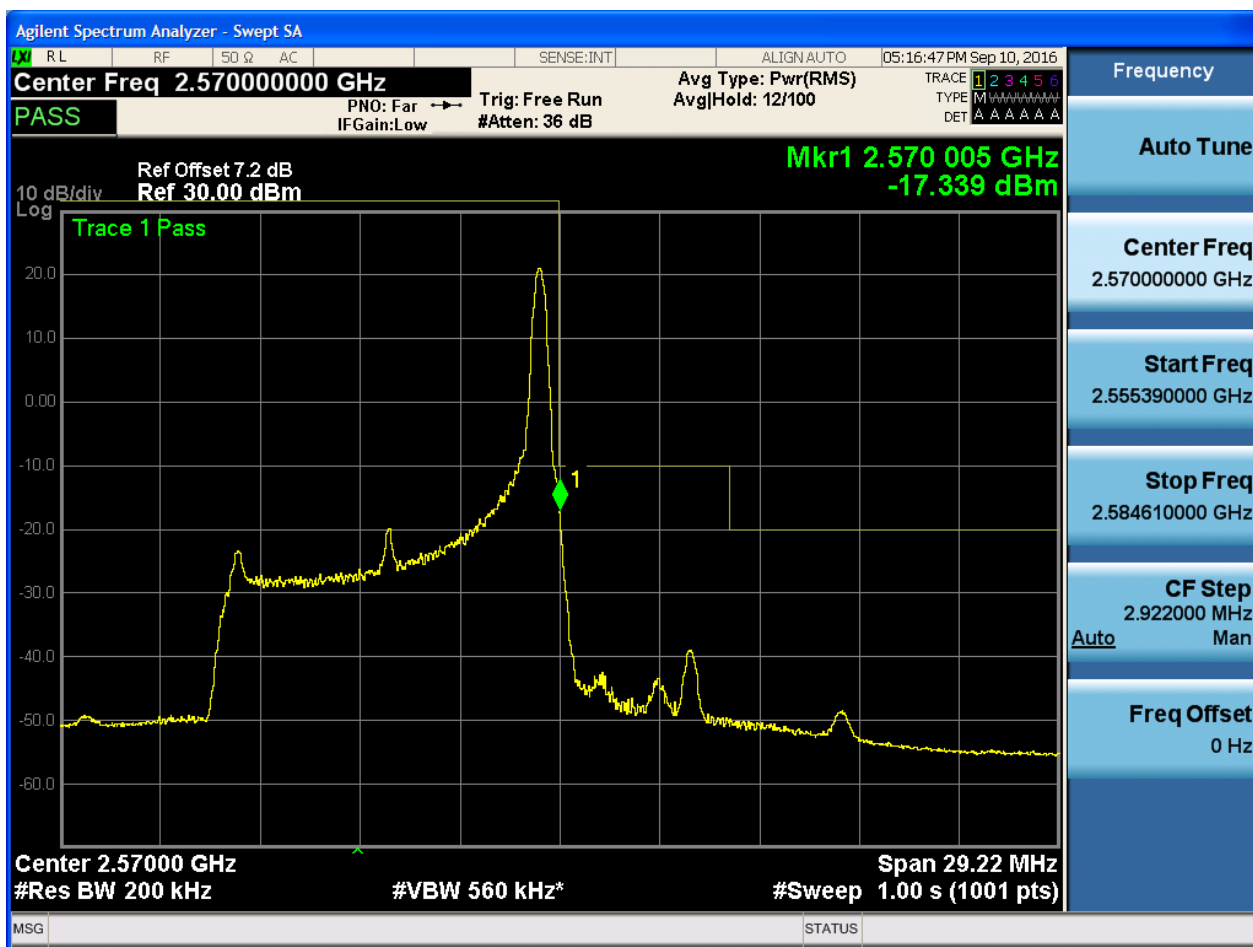
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0

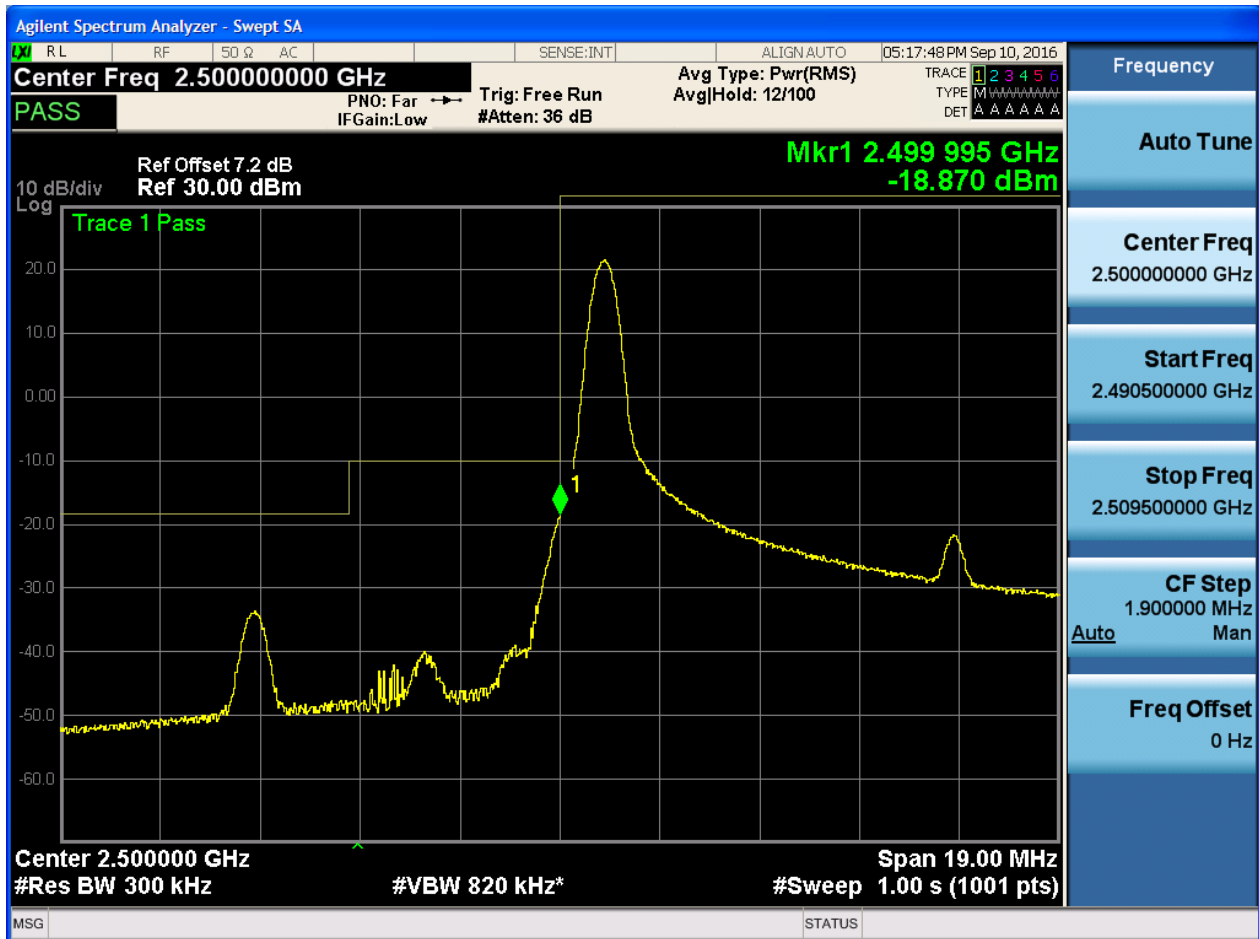




5.1.1.2.3 Test Bandwidth = 15

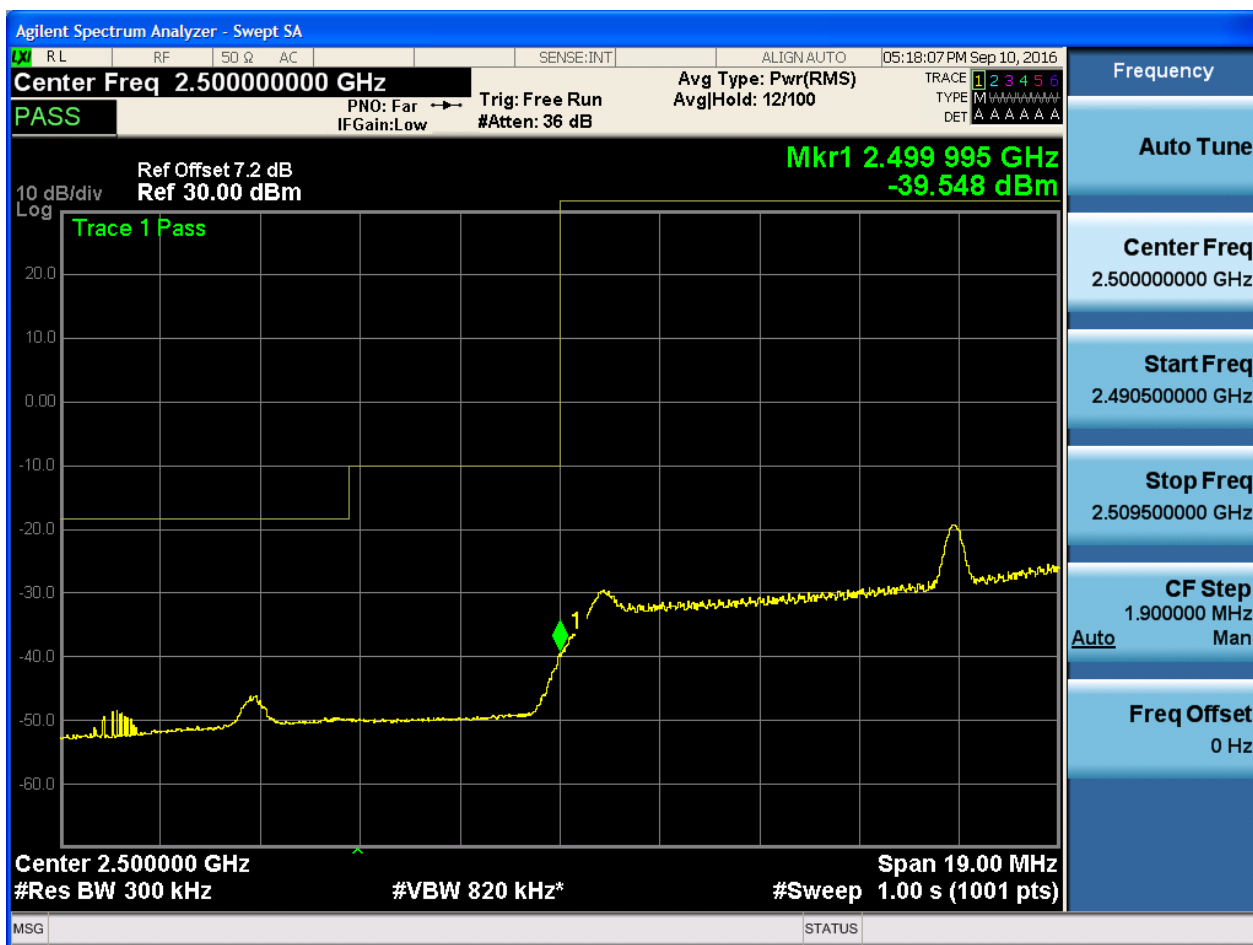
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0





5.1.1.2.3.1.2 Test RB = RB1#74



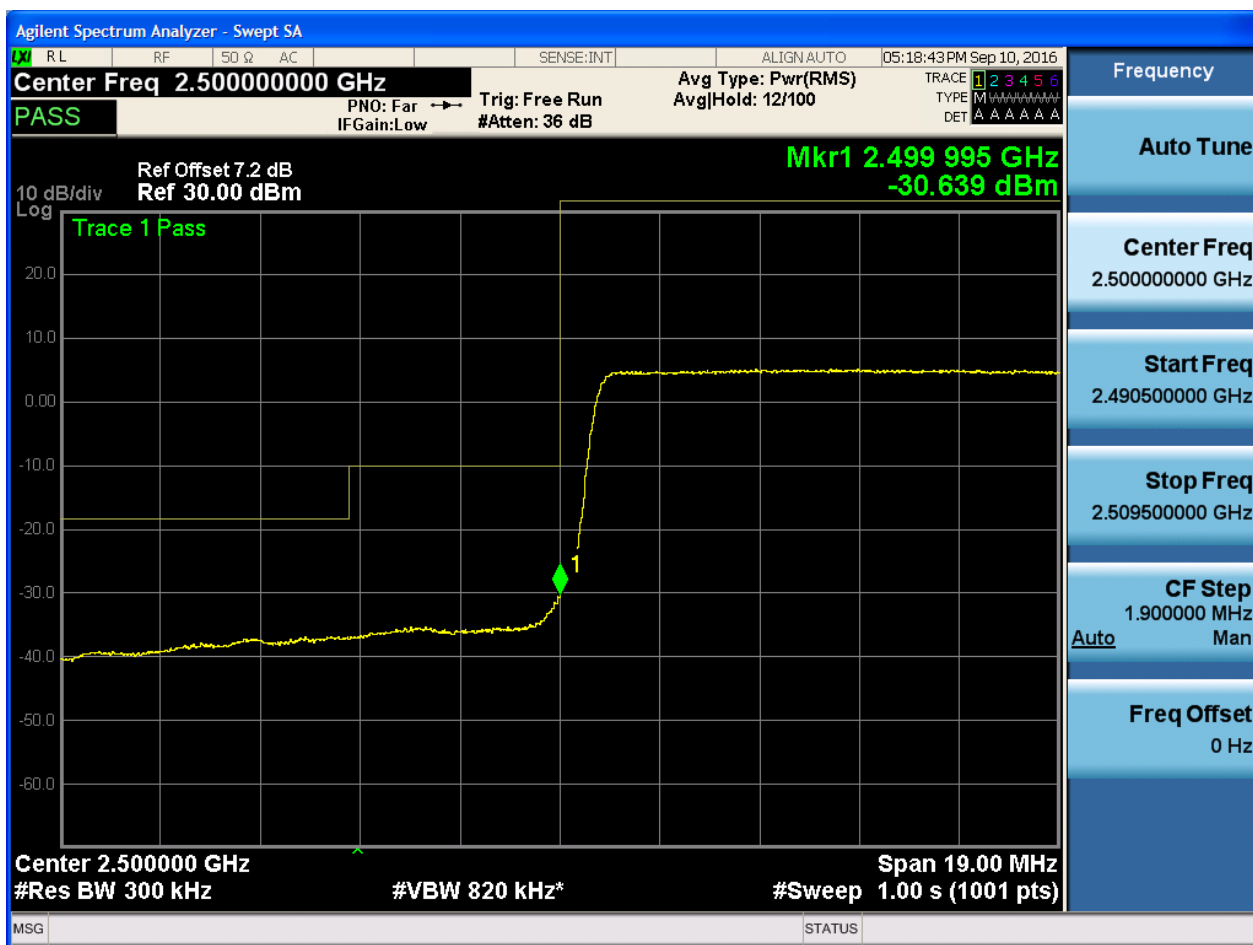


5.1.1.2.3.1.3 Test RB = RB36#18



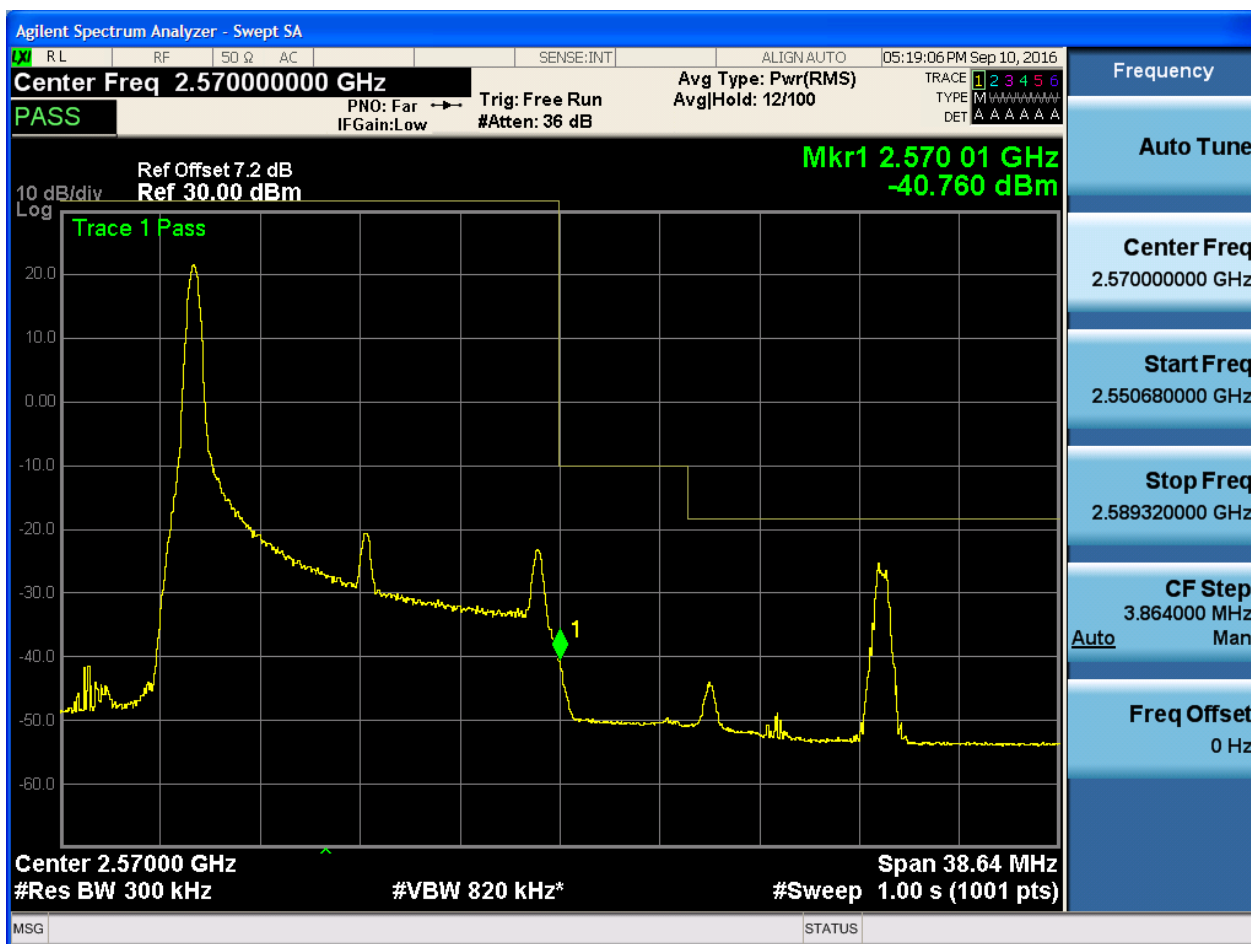


5.1.1.2.3.1.4 Test RB = RB75#0



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#74





5.1.1.2.3.2.3 Test RB = RB36#18





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:20:01 PM Sep 10, 2016

Center Freq 2.57000000 GHz Avg Type: Pwr(RMS) Trace 1 2 3 4 5 6
PASS PNO: Far Trig: Free Run AvgHold: 12/100 TYPE M W W W W W W W
IFGain: Low #Atten: 36 dB DET A A A A A A

Ref Offset 7.2 dB Mkr1 2.570 01 GHz
Ref 30.00 dBm -30.486 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 38.64 MHz
#Res BW 300 kHz #VBW 820 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.550680000 GHz

Stop Freq
2.589320000 GHz

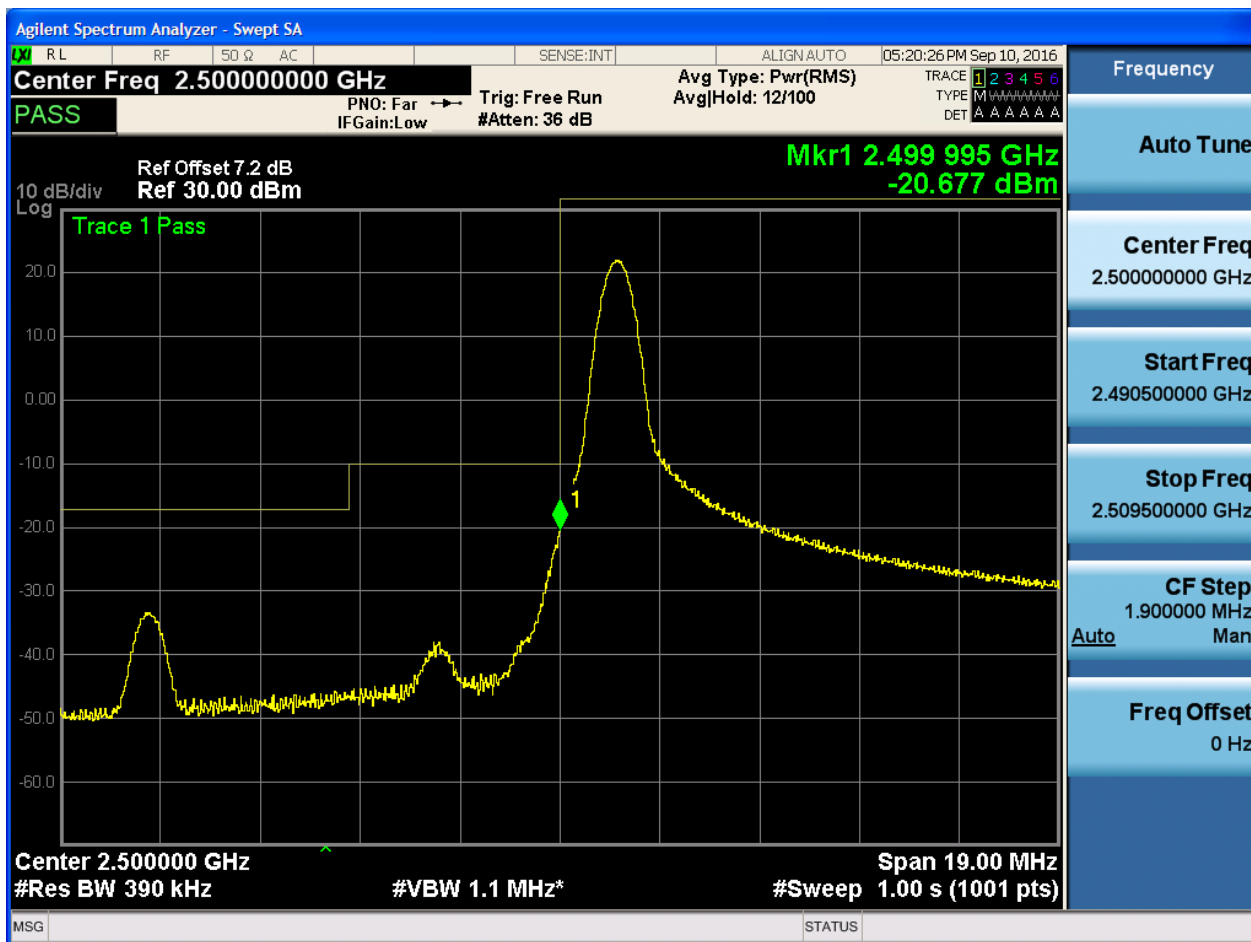
CF Step
3.864000 MHz
Auto Man

Freq Offset
0 Hz

5.1.1.2.4 Test Bandwidth = 20

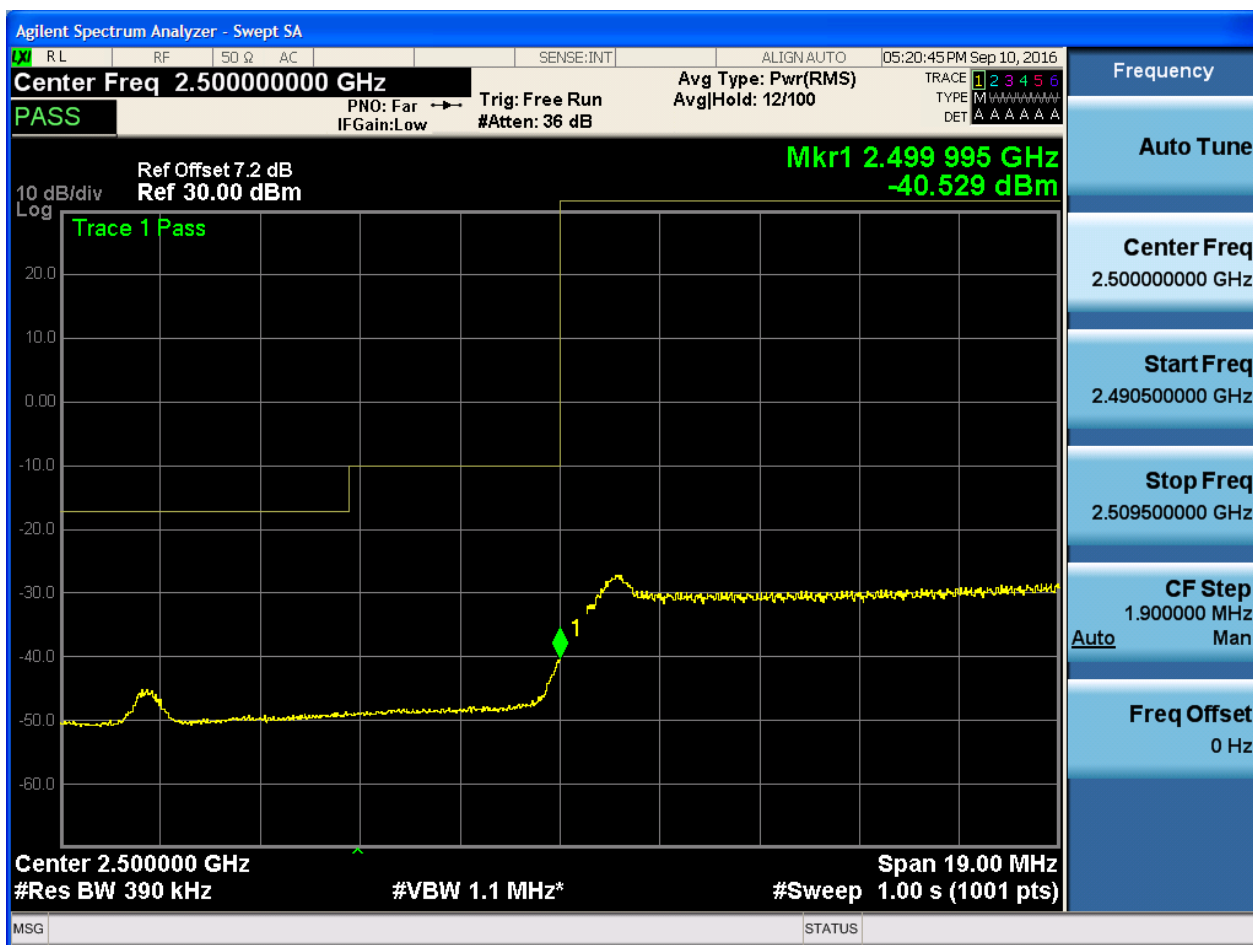
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#99



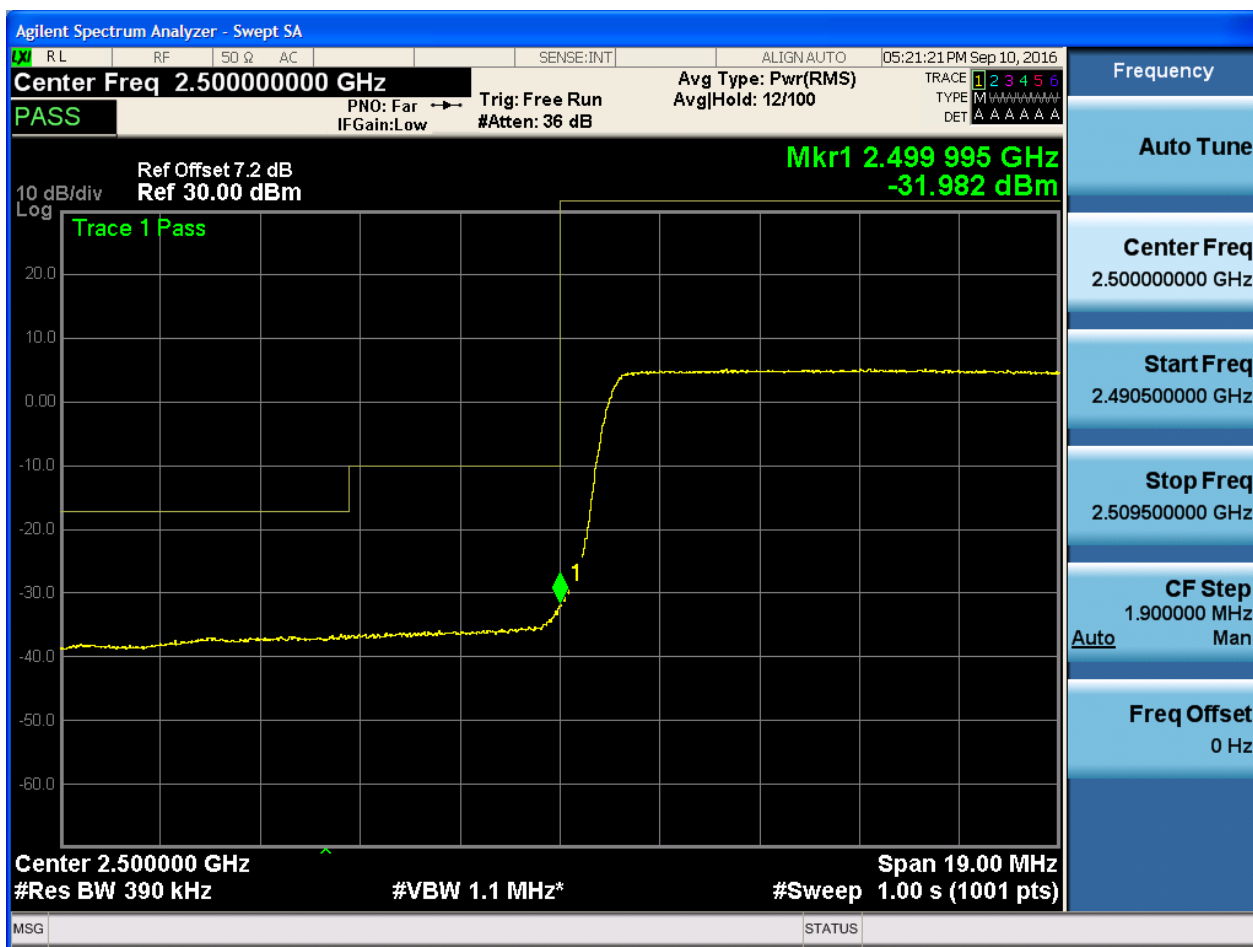


5.1.1.2.4.1.3 Test RB = RB50#25





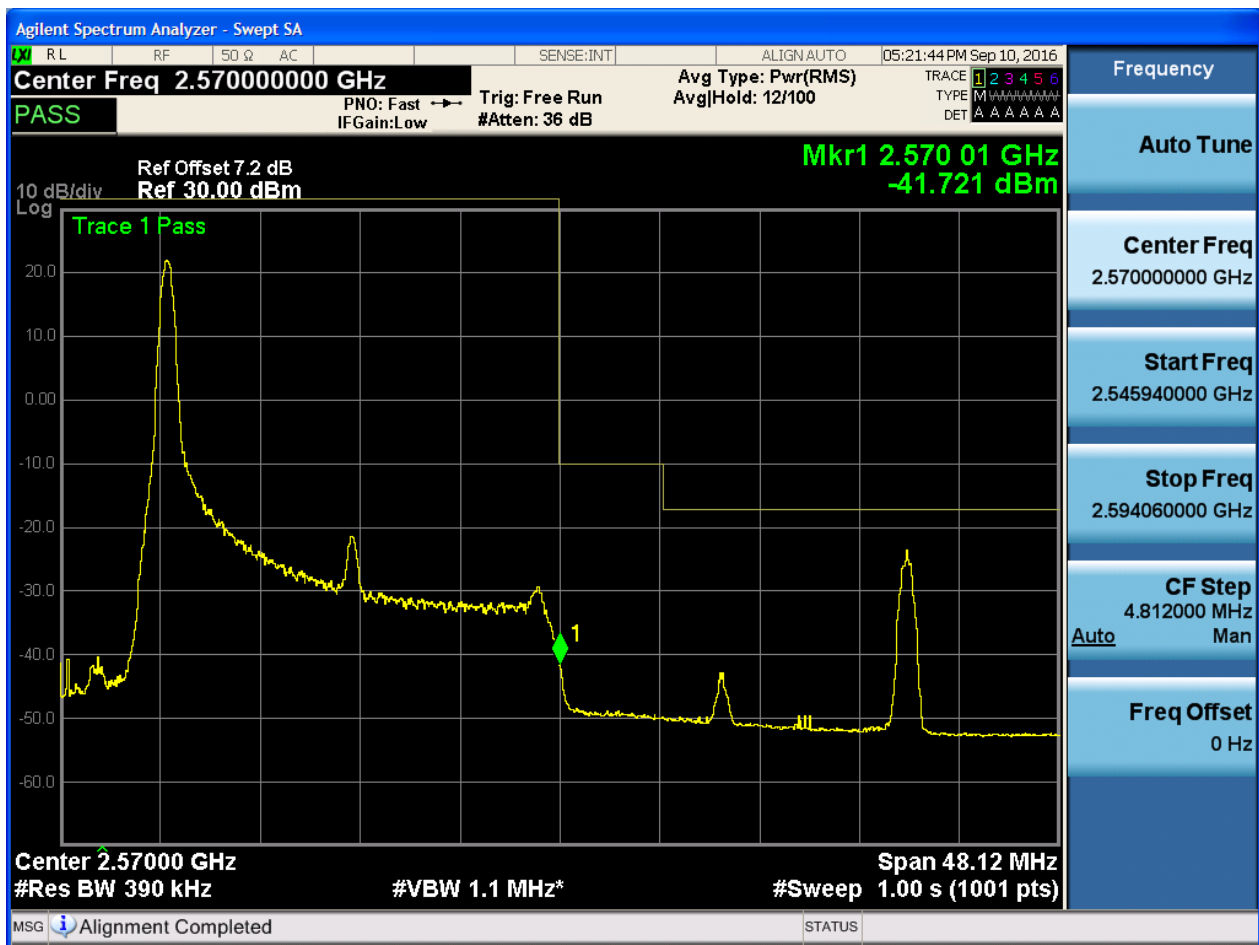
5.1.1.2.4.1.4 Test RB = RB100#0





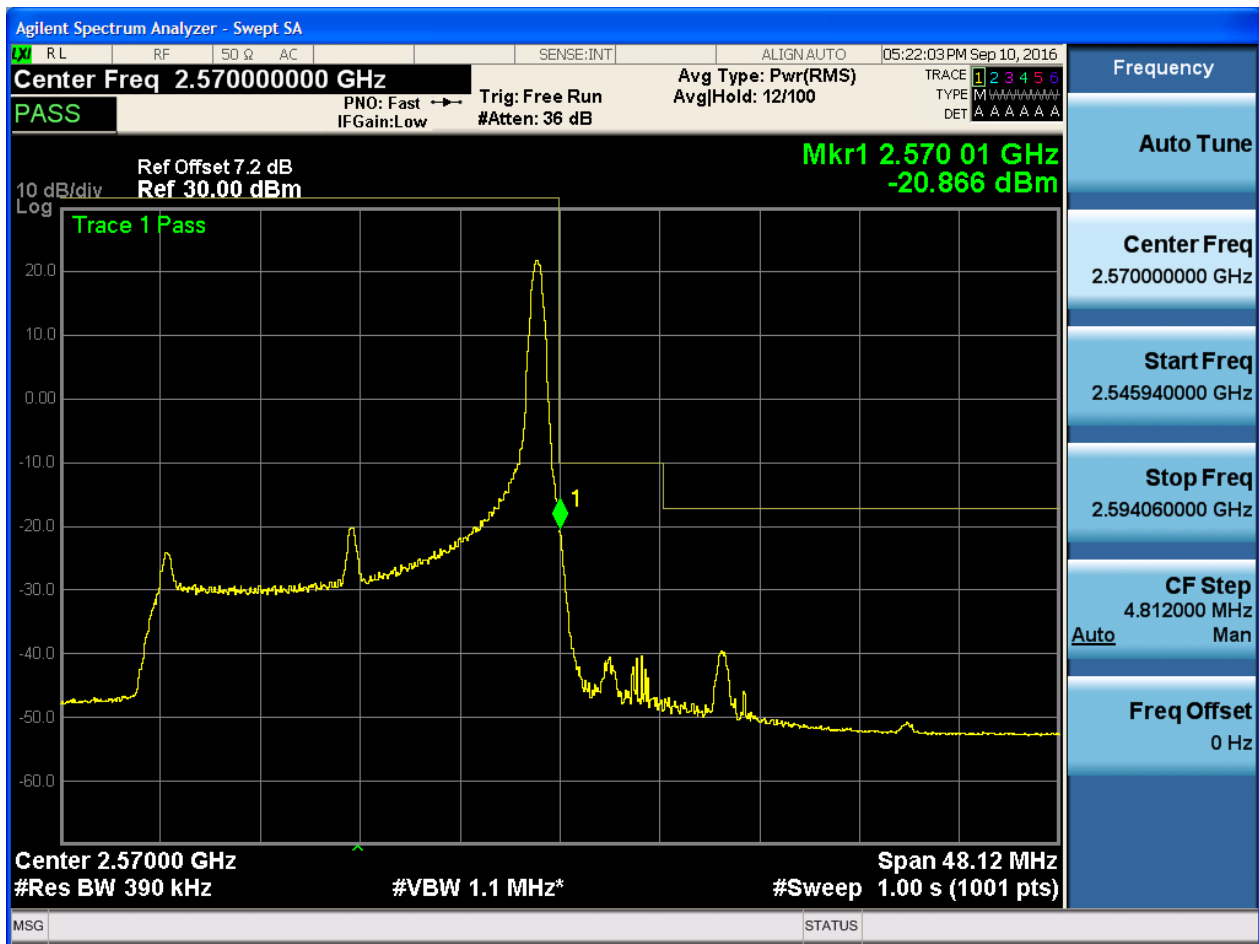
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





5.1.1.2.4.2.2 Test RB = RB1#99





5.1.1.2.4.2.3 Test RB = RB50#25





5.1.1.2.4.2.4 Test RB = RB100#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 = BAND7

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

