



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	21.62	19.52	33	PASS
				RB1#13	21.6	19.16	33	PASS
				RB1#24	21.56	19.23	33	PASS
				RB12#0	20.49	18.19	33	PASS
				RB12#6	20.49	18.21	33	PASS
				RB12#13	20.49	18.33	33	PASS
				RB25#0	20.44	18.17	33	PASS
			MCH	RB1#0	21.39	19.01	33	PASS
				RB1#13	21.41	19.19	33	PASS
				RB1#24	21.46	19.01	33	PASS
				RB12#0	20.33	18.23	33	PASS
				RB12#6	20.31	18.06	33	PASS
				RB12#13	20.33	18.16	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB25#0	20.28	17.87	33	PASS
			HCH	RB1#0	21.72	19.67	33	PASS
				RB1#13	21.77	19.65	33	PASS
				RB1#24	21.76	19.35	33	PASS
				RB12#0	20.64	18.19	33	PASS
				RB12#6	20.66	18.49	33	PASS
				RB12#13	20.65	18.23	33	PASS
				RB25#0	20.62	18.36	33	PASS
		10	LCH	RB1#0	21.53	19.42	33	PASS
				RB1#25	21.53	19.15	33	PASS
				RB1#49	21.5	19.34	33	PASS
				RB25#0	20.48	18.39	33	PASS
				RB25#13	20.44	18.11	33	PASS
				RB25#25	20.45	18.28	33	PASS
				RB50#0	20.45	18.15	33	PASS
			MCH	RB1#0	21.38	19.19	33	PASS
				RB1#25	21.3	18.88	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#49	21.41	19.01	33	PASS
				RB25#0	20.32	17.97	33	PASS
				RB25#13	20.3	17.87	33	PASS
				RB25#25	20.31	18.00	33	PASS
				RB50#0	20.31	17.91	33	PASS
			HCH	RB1#0	21.58	19.15	33	PASS
				RB1#25	21.66	19.40	33	PASS
				RB1#49	21.66	19.54	33	PASS
				RB25#0	20.57	18.25	33	PASS
				RB25#13	20.57	18.29	33	PASS
				RB25#25	20.61	18.24	33	PASS
				RB50#0	20.59	18.37	33	PASS
		15	LCH	RB1#0	21.59	19.48	33	PASS
				RB1#38	21.49	19.12	33	PASS
				RB1#74	21.46	19.25	33	PASS
				RB36#0	20.61	18.17	33	PASS
				RB36#18	20.58	18.23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB36#39	20.51	18.06	33	PASS
				RB75#0	20.57	18.45	33	PASS
			MCH	RB1#0	21.42	19.35	33	PASS
				RB1#38	21.33	19.17	33	PASS
				RB1#74	21.46	19.24	33	PASS
				RB36#0	20.4	17.98	33	PASS
				RB36#18	20.38	18.25	33	PASS
				RB36#39	20.44	18.05	33	PASS
				RB75#0	20.44	18.22	33	PASS
			HCH	RB1#0	21.54	19.12	33	PASS
				RB1#38	21.62	19.32	33	PASS
				RB1#74	21.67	19.29	33	PASS
				RB36#0	20.63	18.19	33	PASS
				RB36#18	20.67	18.59	33	PASS
				RB36#39	20.68	18.44	33	PASS
				RB75#0	20.66	18.49	33	PASS
		20	LCH	RB1#0	21.61	19.47	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#50	21.51	19.36	33	PASS
				RB1#99	21.53	19.22	33	PASS
				RB50#0	20.49	18.31	33	PASS
				RB50#25	20.44	18.15	33	PASS
				RB50#50	20.44	18.02	33	PASS
				RB100#0	20.45	18.16	33	PASS
			MCH	RB1#0	21.55	19.22	33	PASS
				RB1#50	21.35	18.91	33	PASS
				RB1#99	21.54	19.30	33	PASS
				RB50#0	20.38	17.95	33	PASS
				RB50#25	20.33	17.89	33	PASS
				RB50#50	20.4	18.04	33	PASS
				RB100#0	20.39	18.24	33	PASS
			HCH	RB1#0	21.58	19.21	33	PASS
				RB1#50	21.63	19.29	33	PASS
				RB1#99	21.77	19.34	33	PASS
				RB50#0	20.52	18.08	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#25	20.54	18.42	33	PASS
				RB50#50	20.61	18.38	33	PASS
				RB100#0	20.54	18.31	33	PASS
	LTE/TM2	5	LCH	RB1#0	20.64	18.26	33	PASS
				RB1#13	20.61	18.32	33	PASS
				RB1#24	20.61	18.28	33	PASS
				RB12#0	19.46	17.32	33	PASS
				RB12#6	19.46	17.25	33	PASS
				RB12#13	19.47	17.09	33	PASS
				RB25#0	19.37	17.09	33	PASS
			MCH	RB1#0	20.48	18.34	33	PASS
				RB1#13	20.44	18.13	33	PASS
				RB1#24	20.49	18.18	33	PASS
				RB12#0	19.33	16.91	33	PASS
				RB12#6	19.31	17.07	33	PASS
				RB12#13	19.33	17.23	33	PASS
				RB25#0	19.23	17.11	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	20.78	18.52	33	PASS
				RB1#13	20.77	18.45	33	PASS
				RB1#24	20.81	18.64	33	PASS
				RB12#0	19.63	17.19	33	PASS
				RB12#6	19.64	17.34	33	PASS
				RB12#13	19.64	17.27	33	PASS
				RB25#0	19.56	17.43	33	PASS
		10	LCH	RB1#0	20.79	18.40	33	PASS
				RB1#25	20.78	18.48	33	PASS
				RB1#49	20.76	18.39	33	PASS
				RB25#0	19.43	17.27	33	PASS
				RB25#13	19.37	17.28	33	PASS
				RB25#25	19.41	17.17	33	PASS
				RB50#0	19.43	17.13	33	PASS
			MCH	RB1#0	20.65	18.44	33	PASS
				RB1#25	20.6	18.37	33	PASS
				RB1#49	20.68	18.26	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB25#0	19.29	16.89	33	PASS
				RB25#13	19.25	16.98	33	PASS
				RB25#25	19.27	17.11	33	PASS
				RB50#0	19.32	17.23	33	PASS
			HCH	RB1#0	20.87	18.49	33	PASS
				RB1#25	20.93	18.53	33	PASS
				RB1#49	20.93	18.49	33	PASS
				RB25#0	19.53	17.35	33	PASS
				RB25#13	19.54	17.29	33	PASS
				RB25#25	19.57	17.23	33	PASS
				RB50#0	19.58	17.29	33	PASS
		15	LCH	RB1#0	20.79	18.64	33	PASS
				RB1#38	20.72	18.47	33	PASS
				RB1#74	20.72	18.30	33	PASS
				RB36#0	19.53	17.17	33	PASS
				RB36#18	19.53	17.12	33	PASS
				RB36#39	19.46	17.21	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB75#0	19.51	17.34	33	PASS
			MCH	RB1#0	20.7	18.59	33	PASS
				RB1#38	20.6	18.51	33	PASS
				RB1#74	20.73	18.50	33	PASS
				RB36#0	19.37	17.10	33	PASS
				RB36#18	19.38	17.06	33	PASS
				RB36#39	19.41	17.31	33	PASS
				RB75#0	19.39	17.25	33	PASS
			HCH	RB1#0	20.77	18.36	33	PASS
				RB1#38	20.88	18.72	33	PASS
				RB1#74	20.94	18.53	33	PASS
				RB36#0	19.57	17.45	33	PASS
				RB36#18	19.63	17.41	33	PASS
				RB36#39	19.64	17.20	33	PASS
				RB75#0	19.61	17.46	33	PASS
		20	LCH	RB1#0	21.04	18.69	33	PASS
				RB1#50	20.95	18.85	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#99	20.96	18.71	33	PASS
				RB50#0	19.46	17.39	33	PASS
				RB50#25	19.42	17.02	33	PASS
				RB50#50	19.4	17.21	33	PASS
				RB100#0	19.43	17.32	33	PASS
			MCH	RB1#0	20.97	18.78	33	PASS
				RB1#50	20.81	18.67	33	PASS
				RB1#99	21	18.57	33	PASS
				RB50#0	19.35	17.09	33	PASS
				RB50#25	19.32	17.15	33	PASS
				RB50#50	19.39	17.22	33	PASS
				RB100#0	19.36	17.21	33	PASS
			HCH	RB1#0	21.01	18.61	33	PASS
				RB1#50	21.07	18.64	33	PASS
				RB1#99	21.2	18.92	33	PASS
				RB50#0	19.47	17.13	33	PASS
				RB50#25	19.48	17.08	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#50	19.56	17.32	33	PASS
				RB100#0	19.51	17.17	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:

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

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

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

SET Sweep time=auto-couple.

Detector:RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	3.6	13	PASS
				RB1#13	3.6	13	PASS
				RB1#24	3.53	13	PASS
				RB12#0	5.12	13	PASS
				RB12#6	4.92	13	PASS
				RB12#13	5.02	13	PASS
				RB25#0	5.22	13	PASS
			MCH	RB1#0	3.52	13	PASS
				RB1#13	3.58	13	PASS
				RB1#24	3.56	13	PASS
				RB12#0	5.5	13	PASS
				RB12#6	5.38	13	PASS
				RB12#13	5.46	13	PASS
				RB25#0	5.66	13	PASS
			HCH	RB1#0	3.43	13	PASS
				RB1#13	3.42	13	PASS
				RB1#24	3.38	13	PASS
				RB12#0	5.17	13	PASS
				RB12#6	5.02	13	PASS
				RB12#13	5.18	13	PASS
				RB25#0	5.4	13	PASS
		10	LCH	RB1#0	3.59	13	PASS
				RB1#25	3.51	13	PASS
				RB1#49	3.57	13	PASS
				RB25#0	5.08	13	PASS
				RB25#13	4.92	13	PASS
				RB25#25	5.02	13	PASS
				RB50#0	5.48	13	PASS
			MCH	RB1#0	3.49	13	PASS
				RB1#25	3.49	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	3.54	13	PASS
				RB25#0	5.61	13	PASS
				RB25#13	5.57	13	PASS
				RB25#25	5.62	13	PASS
				RB50#0	6.01	13	PASS
			HCH	RB1#0	3.42	13	PASS
				RB1#25	3.4	13	PASS
				RB1#49	3.29	13	PASS
				RB25#0	5.1	13	PASS
				RB25#13	5.12	13	PASS
				RB25#25	5.23	13	PASS
				RB50#0	5.64	13	PASS
		15	LCH	RB1#0	3.57	13	PASS
				RB1#38	3.61	13	PASS
				RB1#74	3.68	13	PASS
				RB36#0	5.18	13	PASS
				RB36#18	5.08	13	PASS
				RB36#39	5.36	13	PASS
				RB75#0	6.03	13	PASS
			MCH	RB1#0	3.45	13	PASS
				RB1#38	3.5	13	PASS
				RB1#74	3.6	13	PASS
				RB36#0	5.68	13	PASS
				RB36#18	5.64	13	PASS
				RB36#39	5.81	13	PASS
				RB75#0	6.6	13	PASS
			HCH	RB1#0	3.34	13	PASS
				RB1#38	3.4	13	PASS
				RB1#74	3.27	13	PASS
				RB36#0	5.05	13	PASS
				RB36#18	5.09	13	PASS
				RB36#39	5.42	13	PASS
				RB75#0	6.12	13	PASS
		20	LCH	RB1#0	3.8	13	PASS
				RB1#50	3.73	13	PASS
				RB1#99	3.88	13	PASS
				RB50#0	5.4	13	PASS
				RB50#25	5.38	13	PASS
				RB50#50	5.63	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	5.67	13	PASS
			MCH	RB1#0	3.78	13	PASS
				RB1#50	3.72	13	PASS
				RB1#99	3.77	13	PASS
				RB50#0	5.97	13	PASS
				RB50#25	5.86	13	PASS
				RB50#50	5.95	13	PASS
				RB100#0	6.07	13	PASS
			HCH	RB1#0	3.59	13	PASS
				RB1#50	3.75	13	PASS
				RB1#99	3.48	13	PASS
				RB50#0	5.22	13	PASS
				RB50#25	5.26	13	PASS
				RB50#50	5.42	13	PASS
				RB100#0	5.67	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.73	13	PASS
				RB1#13	4.44	13	PASS
				RB1#24	4.75	13	PASS
				RB12#0	5.95	13	PASS
				RB12#6	5.75	13	PASS
				RB12#13	5.82	13	PASS
				RB25#0	6.42	13	PASS
			MCH	RB1#0	4.61	13	PASS
				RB1#13	4.62	13	PASS
				RB1#24	4.68	13	PASS
				RB12#0	6.31	13	PASS
				RB12#6	6.27	13	PASS
				RB12#13	6.32	13	PASS
				RB25#0	6.79	13	PASS
			HCH	RB1#0	4.62	13	PASS
				RB1#13	4.49	13	PASS
				RB1#24	4.41	13	PASS
				RB12#0	5.98	13	PASS
				RB12#6	5.87	13	PASS
				RB12#13	5.97	13	PASS
				RB25#0	6.55	13	PASS
		10	LCH	RB1#0	4.95	13	PASS
				RB1#25	4.8	13	PASS
				RB1#49	4.93	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.53	13	PASS
				RB25#13	6.19	13	PASS
				RB25#25	6.26	13	PASS
				RB50#0	6.44	13	PASS
			MCH	RB1#0	4.87	13	PASS
				RB1#25	4.88	13	PASS
				RB1#49	4.97	13	PASS
				RB25#0	6.93	13	PASS
				RB25#13	6.9	13	PASS
				RB25#25	6.9	13	PASS
				RB50#0	6.95	13	PASS
			HCH	RB1#0	4.72	13	PASS
				RB1#25	4.43	13	PASS
				RB1#49	4.72	13	PASS
				RB25#0	6.22	13	PASS
				RB25#13	6.23	13	PASS
				RB25#25	6.43	13	PASS
				RB50#0	6.58	13	PASS
		15	LCH	RB1#0	4.95	13	PASS
				RB1#38	4.95	13	PASS
				RB1#74	5.01	13	PASS
				RB36#0	6.45	13	PASS
				RB36#18	6.28	13	PASS
				RB36#39	6.46	13	PASS
				RB75#0	6.75	13	PASS
			MCH	RB1#0	4.84	13	PASS
				RB1#38	4.99	13	PASS
				RB1#74	4.99	13	PASS
				RB36#0	6.96	13	PASS
				RB36#18	6.9	13	PASS
				RB36#39	6.95	13	PASS
				RB75#0	7.15	13	PASS
			HCH	RB1#0	4.75	13	PASS
				RB1#38	4.72	13	PASS
				RB1#74	4.62	13	PASS
				RB36#0	6.21	13	PASS
				RB36#18	6.06	13	PASS
				RB36#39	6.42	13	PASS
				RB75#0	6.65	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	3.99	13	PASS
				RB1#50	3.87	13	PASS
				RB1#99	4.1	13	PASS
				RB50#0	6.38	13	PASS
				RB50#25	6.38	13	PASS
				RB50#50	6.64	13	PASS
				RB100#0	7.08	13	PASS
			MCH	RB1#0	4.04	13	PASS
				RB1#50	3.99	13	PASS
				RB1#99	4.12	13	PASS
				RB50#0	6.98	13	PASS
				RB50#25	6.88	13	PASS
				RB50#50	6.96	13	PASS
				RB100#0	7.14	13	PASS
			HCH	RB1#0	3.75	13	PASS
				RB1#50	3.75	13	PASS
				RB1#99	3.9	13	PASS
				RB50#0	6.1	13	PASS
				RB50#25	6.06	13	PASS
				RB50#50	6.38	13	PASS
				RB100#0	6.67	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

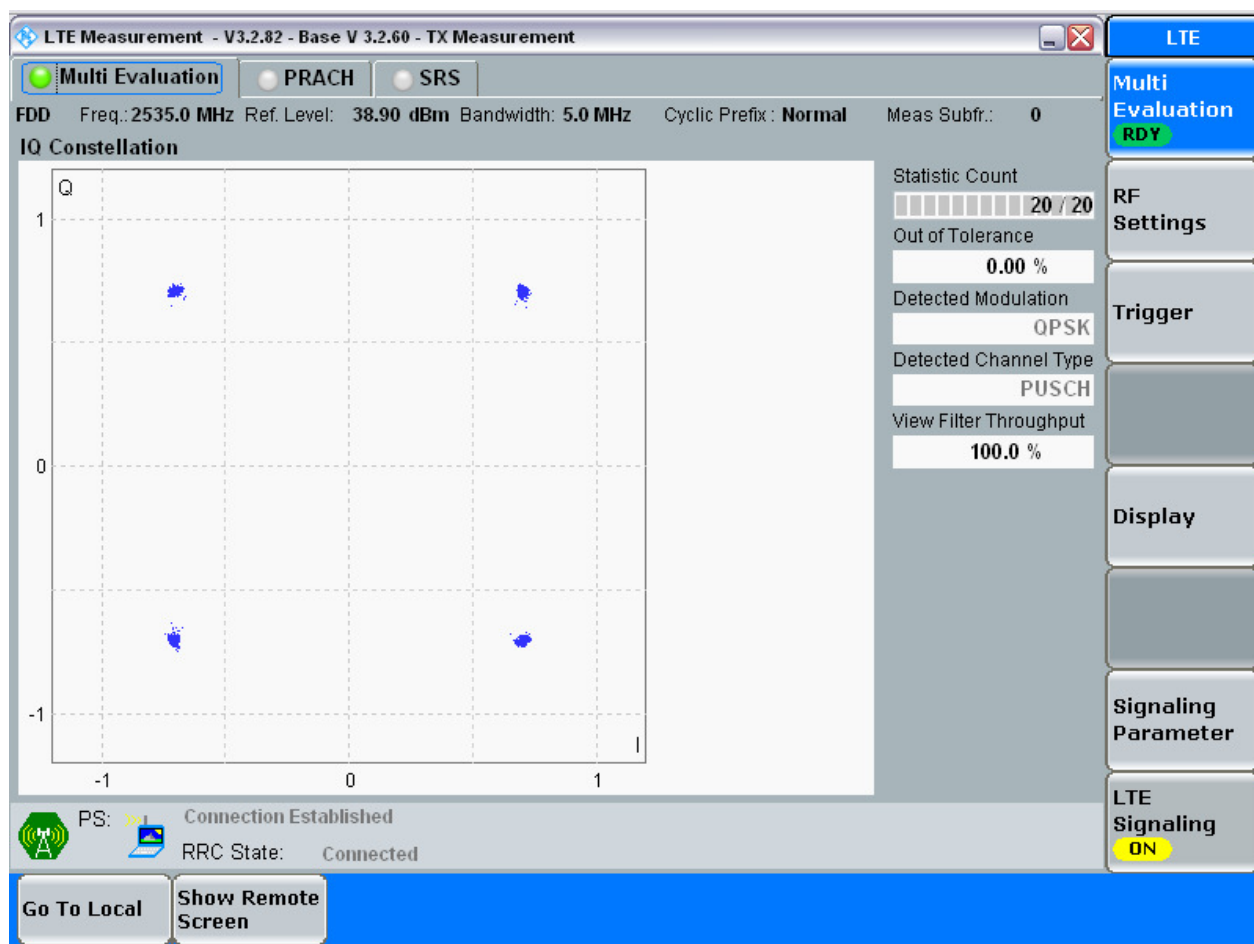
3.1.1 Test Band = BAND7

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

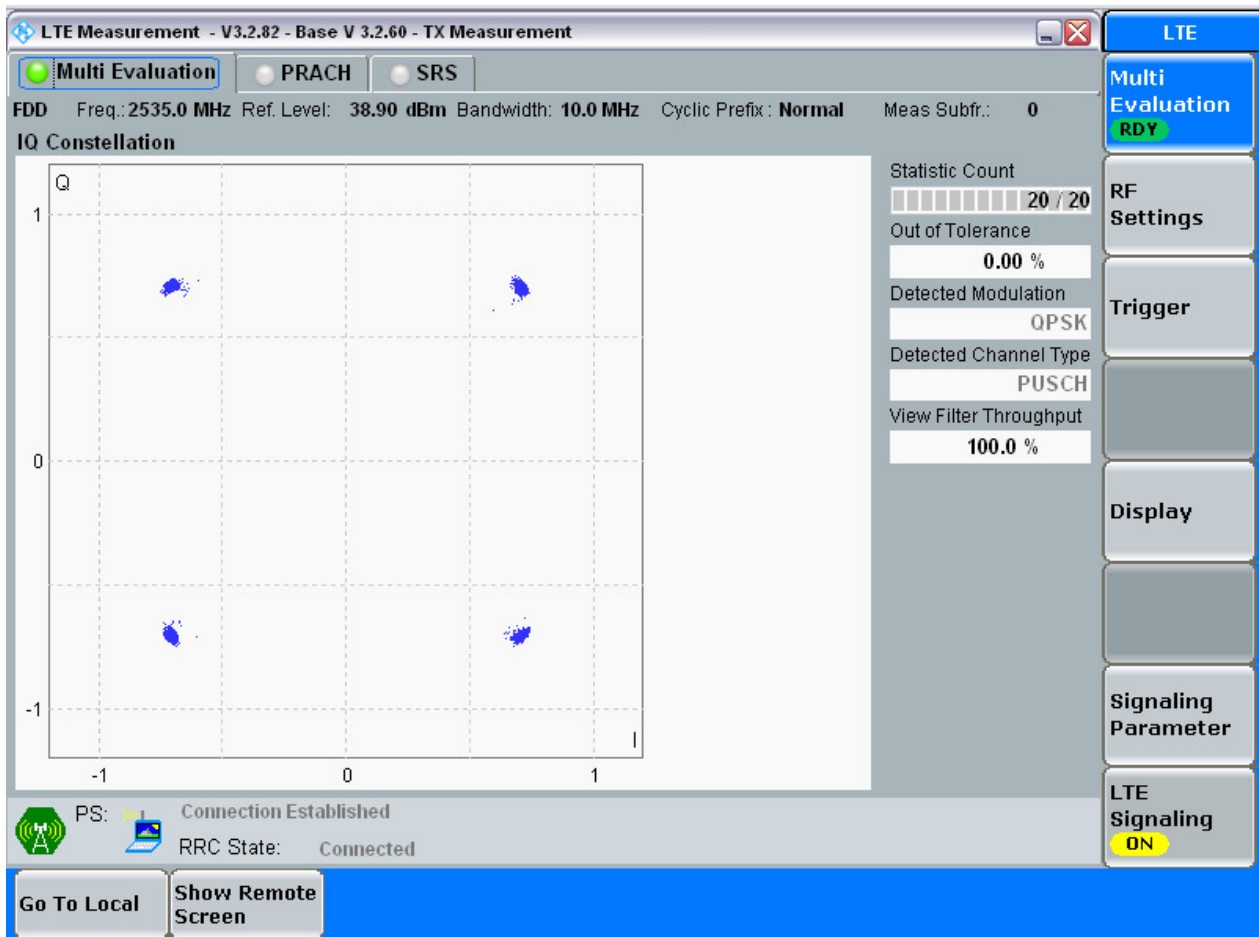
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

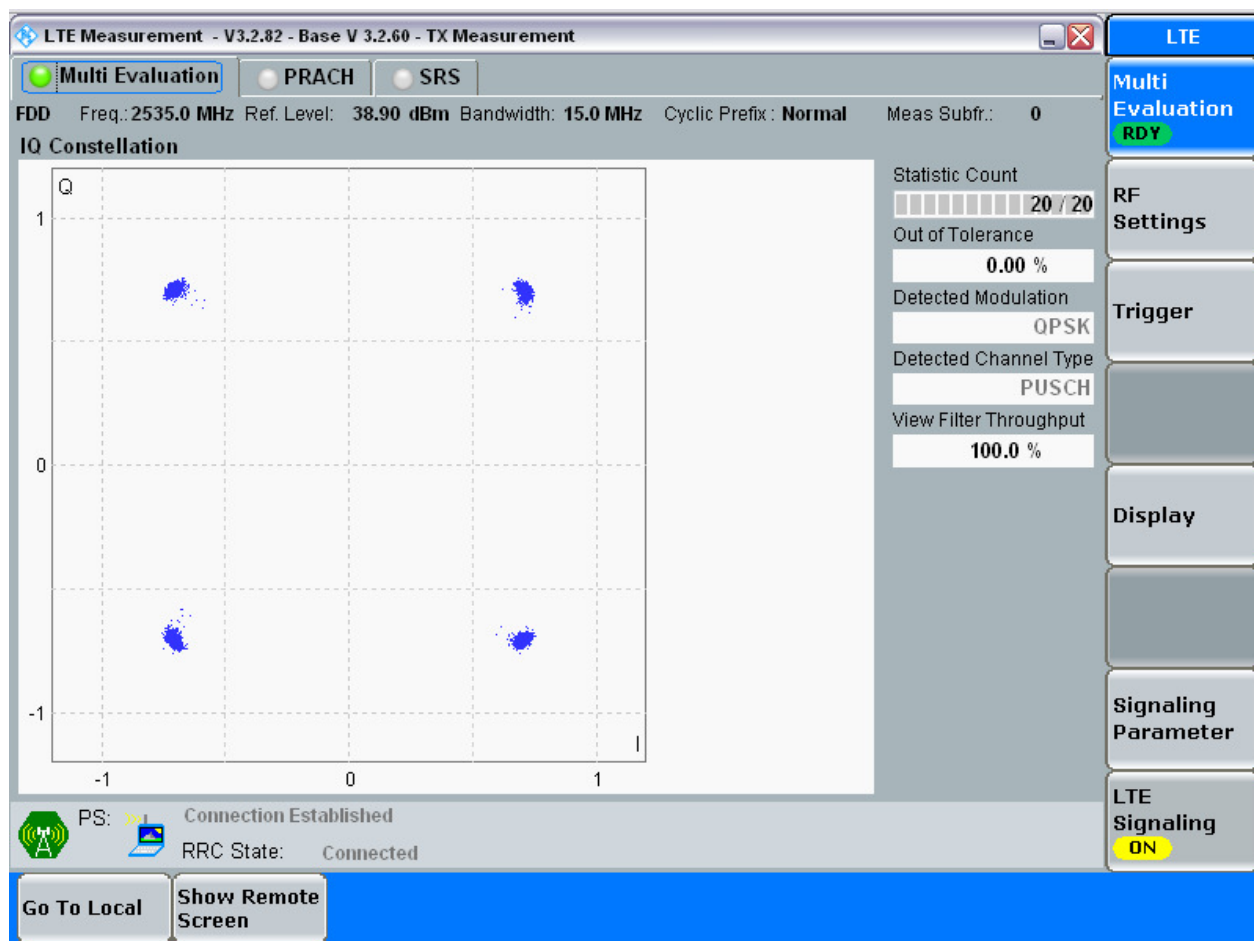
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

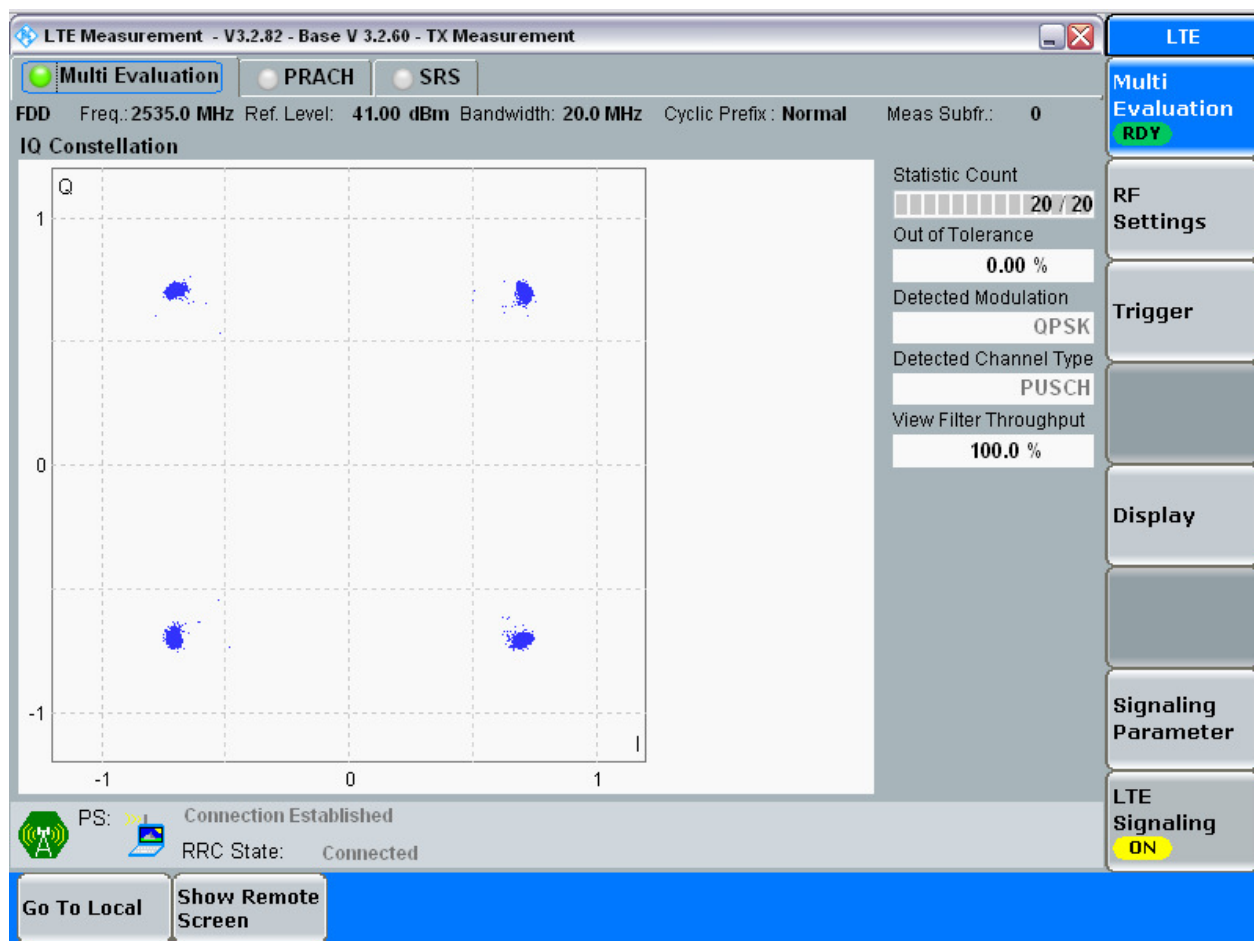
3.1.1.1.3.1.1 Test RB = RB75#0



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

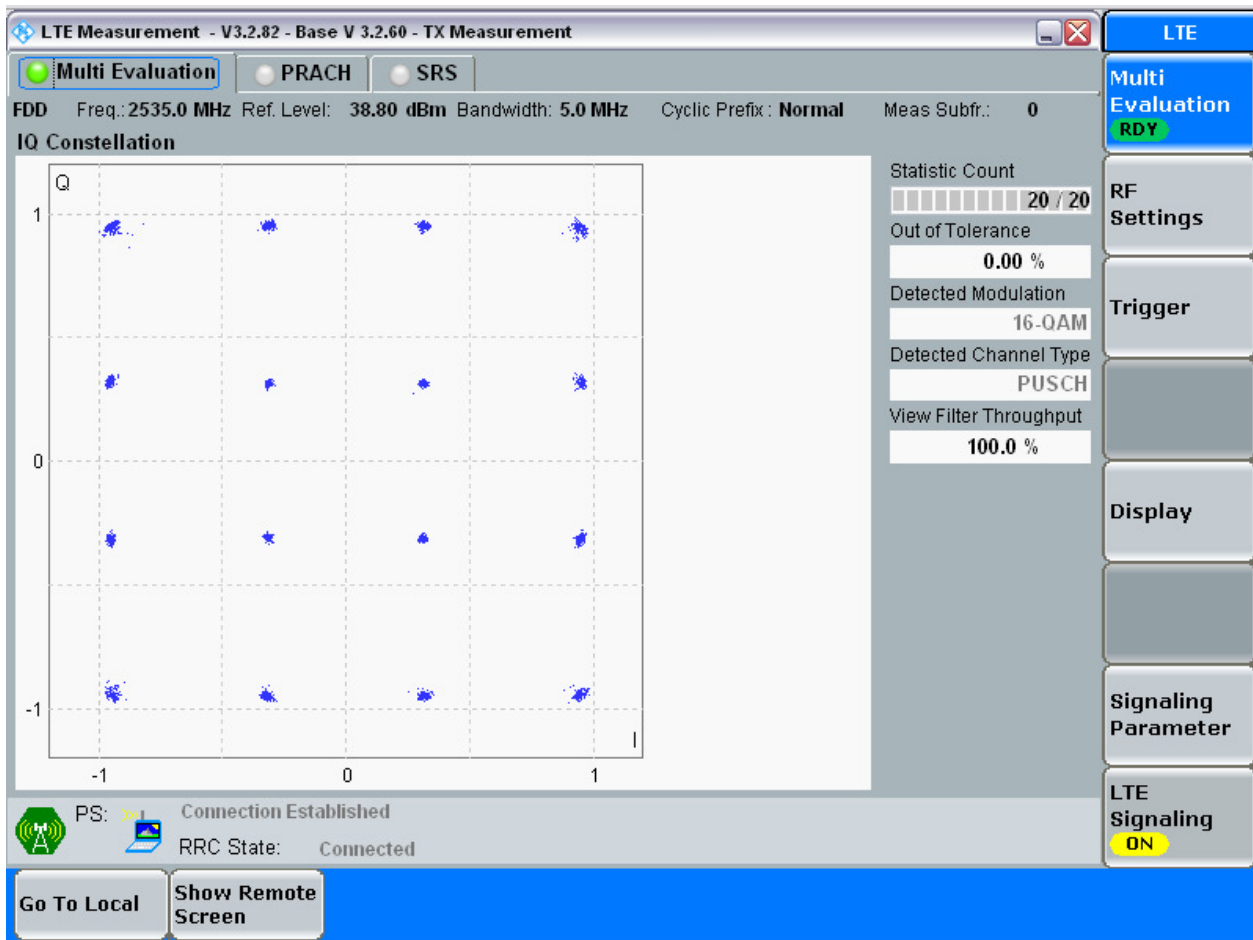


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

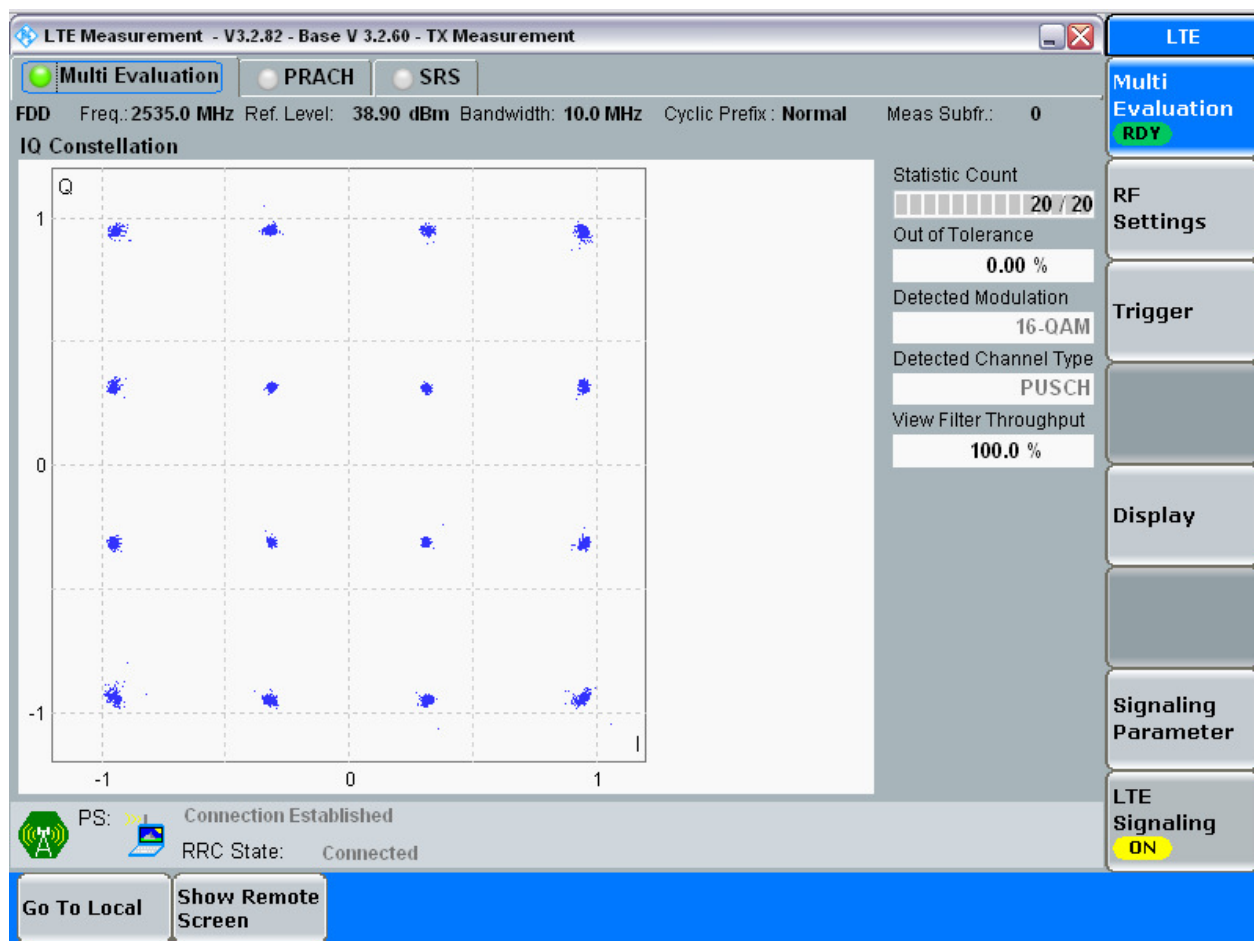
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

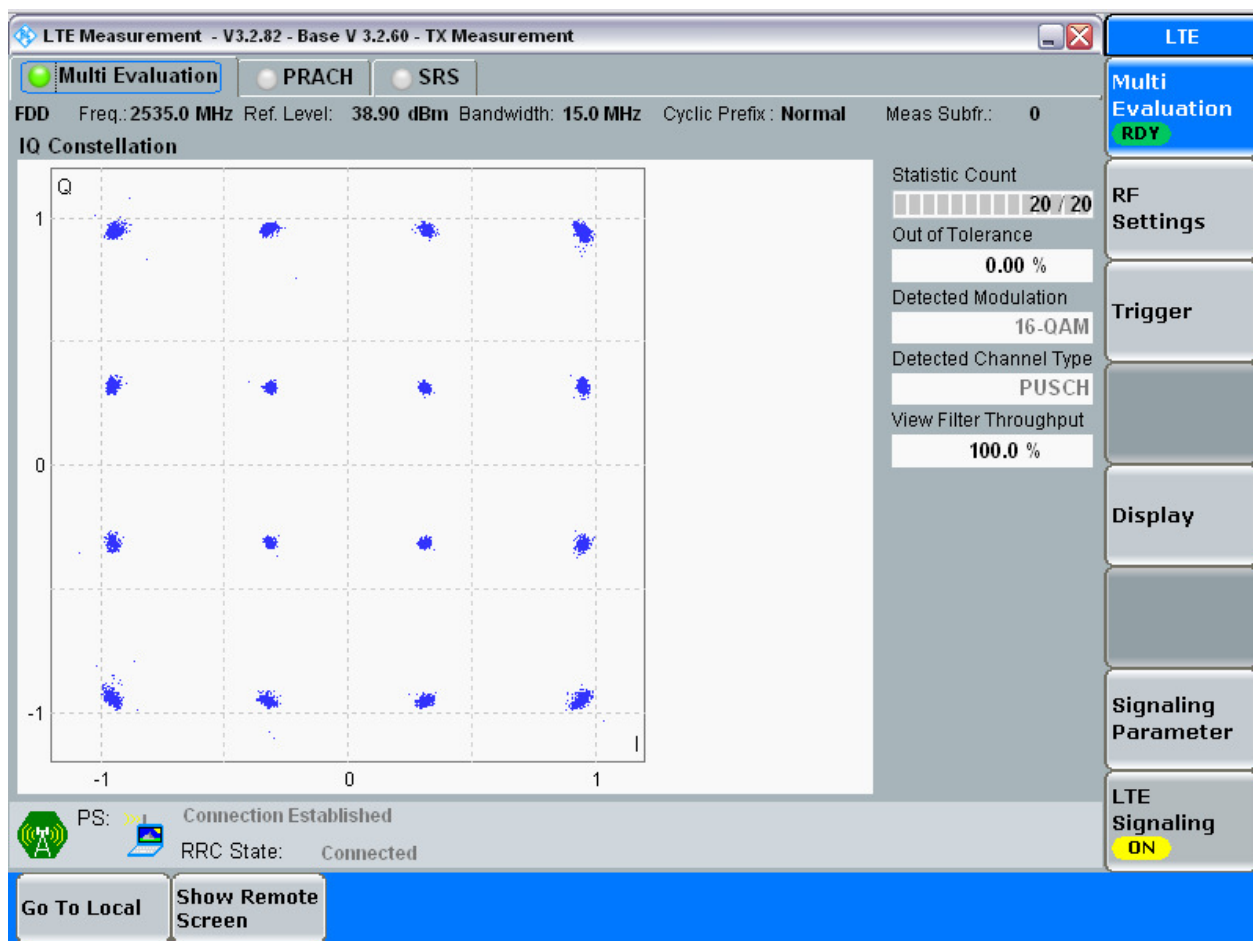
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

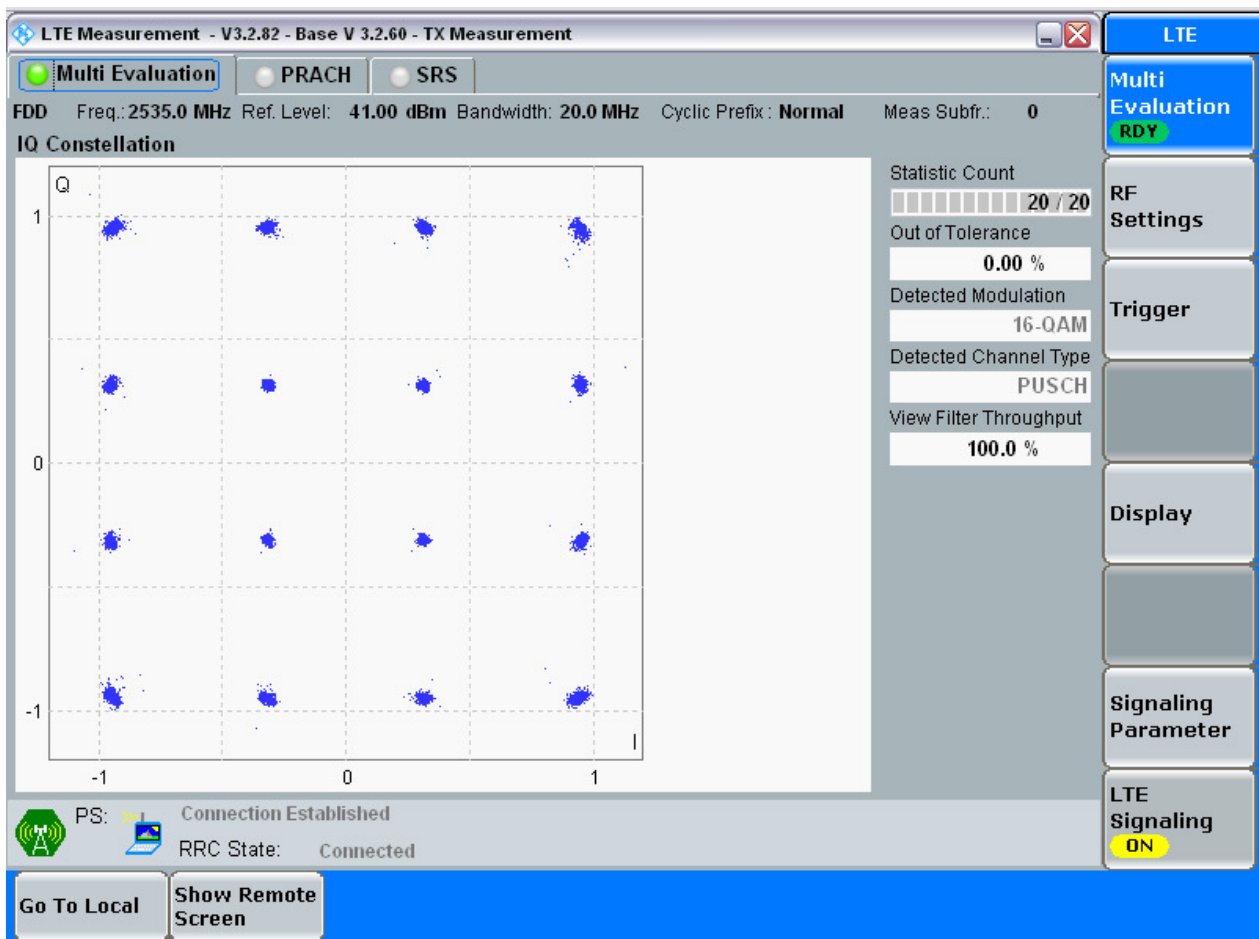
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.51	4.91	Pass
			MCH	RB25#0	4.51	4.92	Pass
			HCH	RB25#0	4.51	4.90	Pass
		10	LCH	RB50#0	8.99	9.55	Pass
			MCH	RB50#0	9.00	9.64	Pass
			HCH	RB50#0	9.00	9.63	Pass
		15	LCH	RB75#0	13.48	14.35	Pass
			MCH	RB75#0	13.52	14.34	Pass
			HCH	RB75#0	13.51	14.32	Pass
		20	LCH	RB100#0	17.93	18.99	Pass
			MCH	RB100#0	17.99	18.98	Pass
			HCH	RB100#0	17.96	19.01	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.92	Pass
			MCH	RB25#0	4.52	4.89	Pass
			HCH	RB25#0	4.51	4.88	Pass
		10	LCH	RB50#0	8.97	9.56	Pass
			MCH	RB50#0	8.99	9.59	Pass
			HCH	RB50#0	8.98	9.62	Pass
		15	LCH	RB75#0	13.47	14.29	Pass
			MCH	RB75#0	13.50	14.27	Pass
			HCH	RB75#0	13.50	14.32	Pass
		20	LCH	RB100#0	17.94	18.95	Pass
			MCH	RB100#0	18.00	18.96	Pass
			HCH	RB100#0	17.97	18.97	Pass



Part II - Test Plots

4.1 For LTE

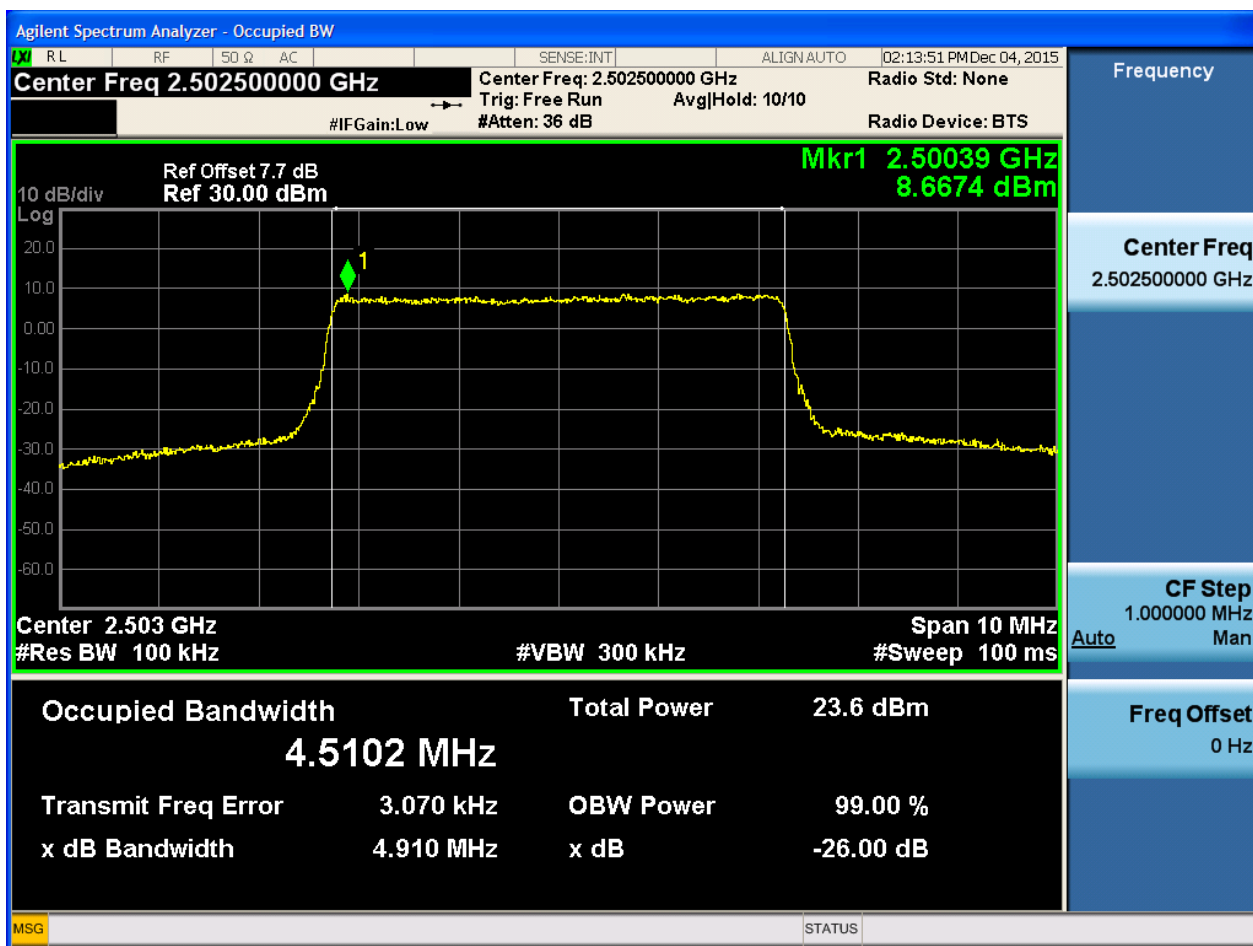
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

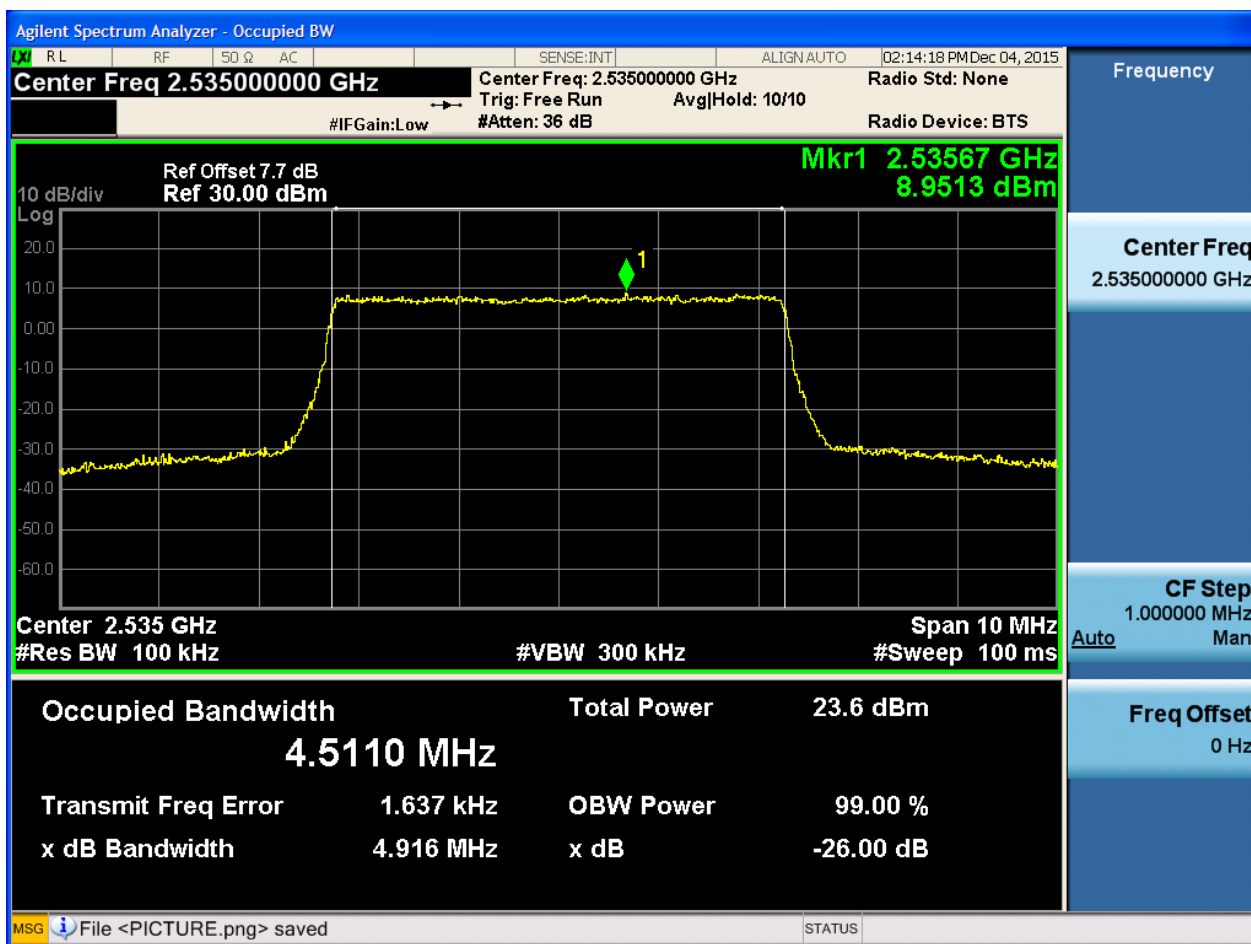
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB25#0



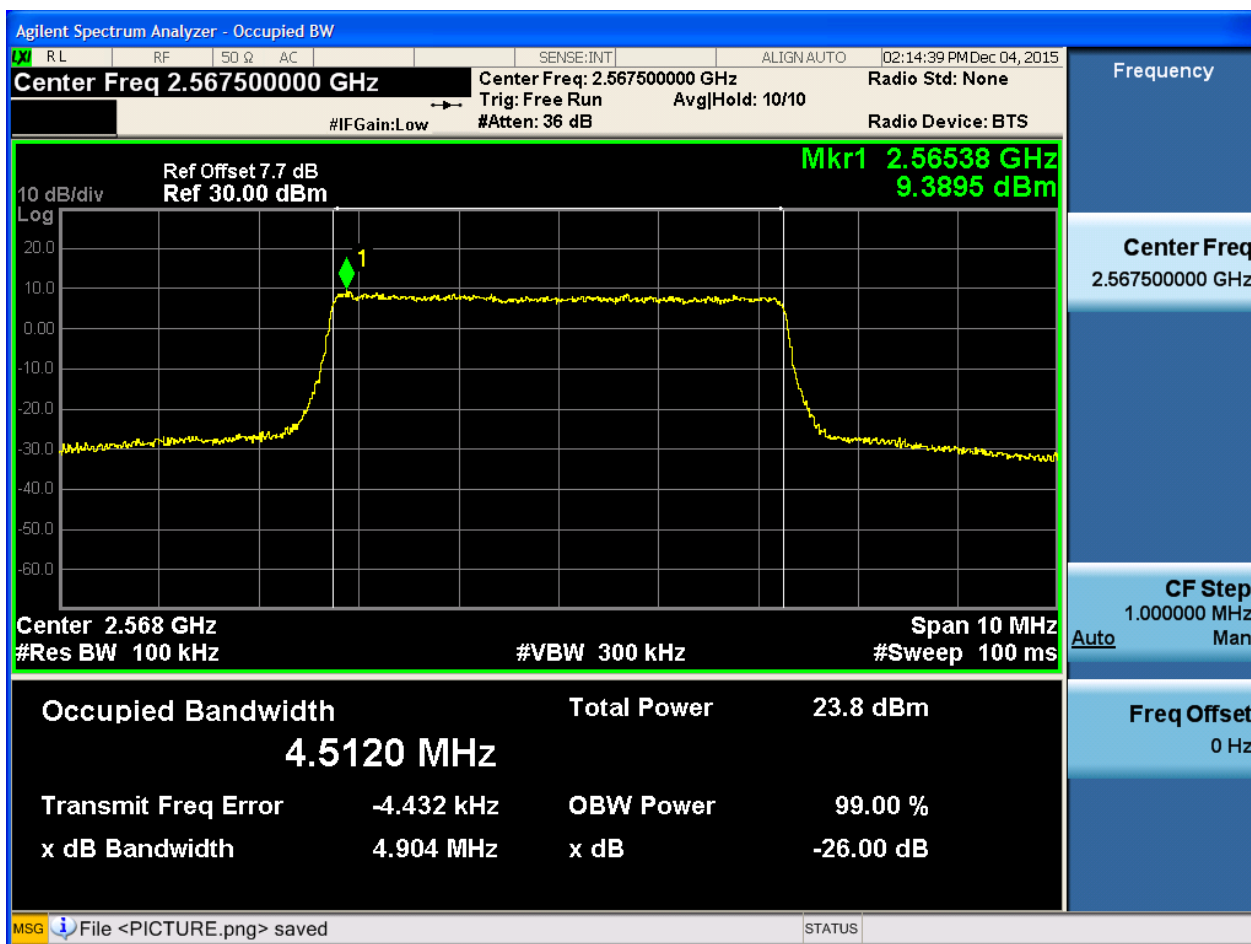
4.1.1.1.1.2 Test Channel = MCH

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

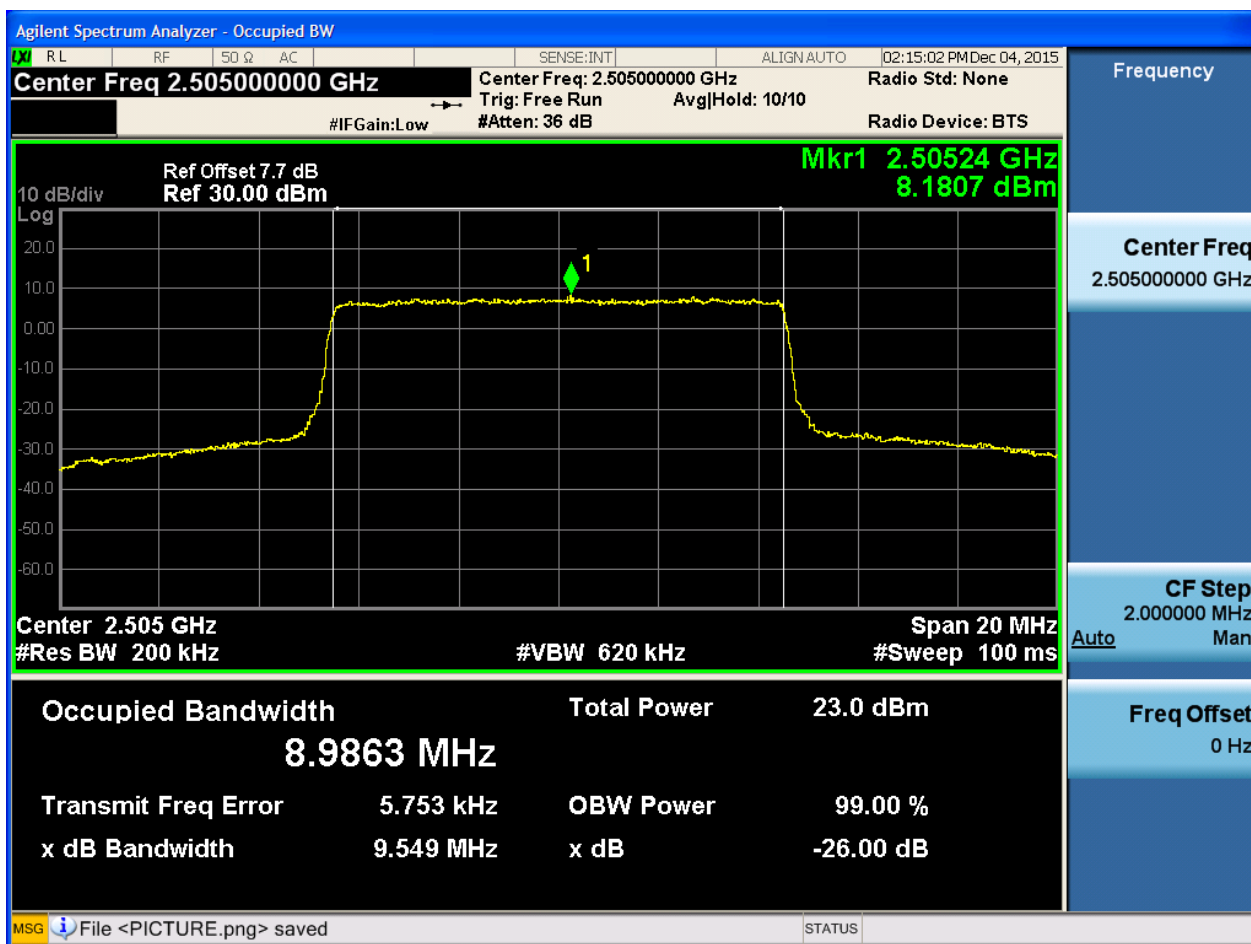




4.1.1.1.2 Test Bandwidth = 10

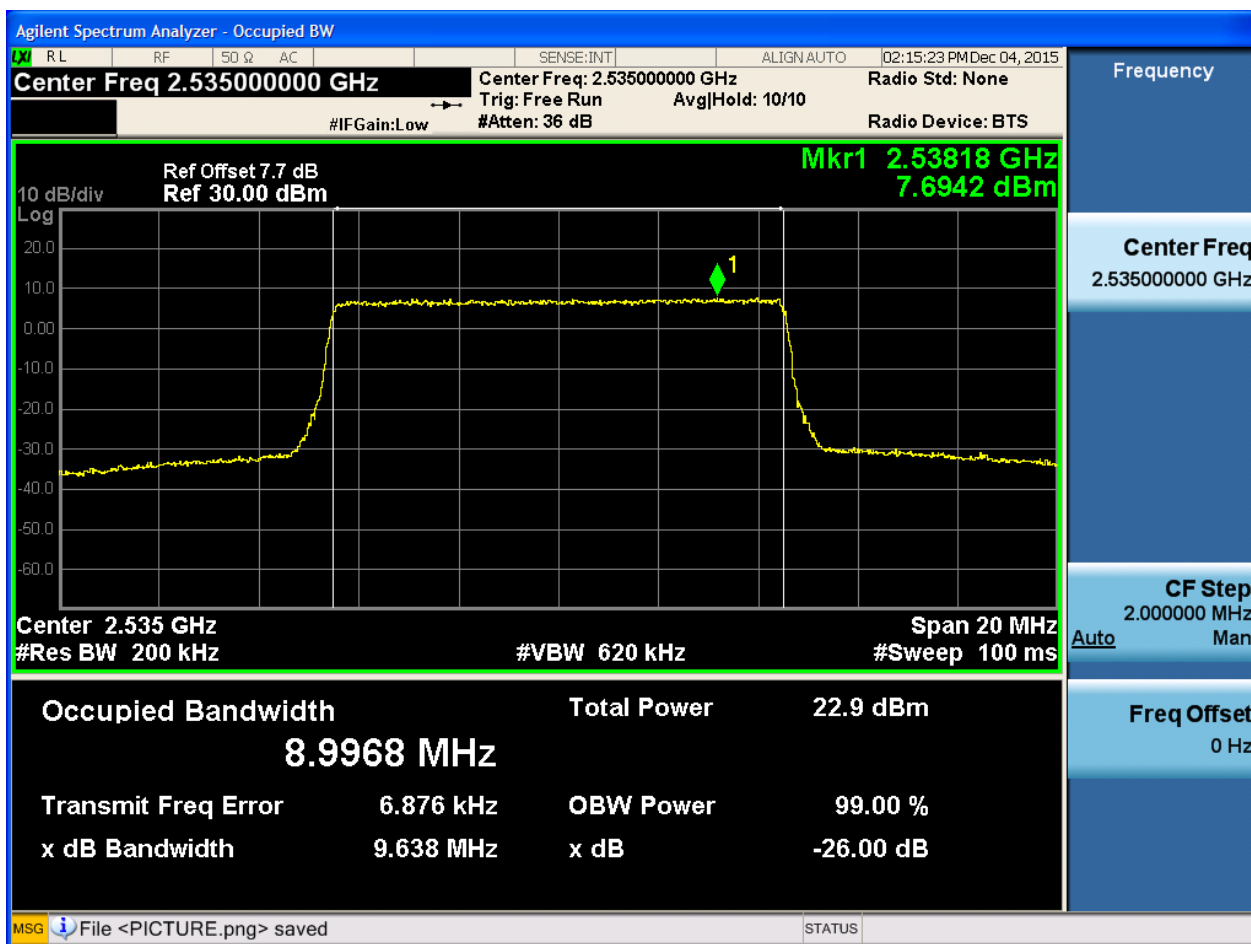
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



4.1.1.1.2.2 Test Channel = MCH

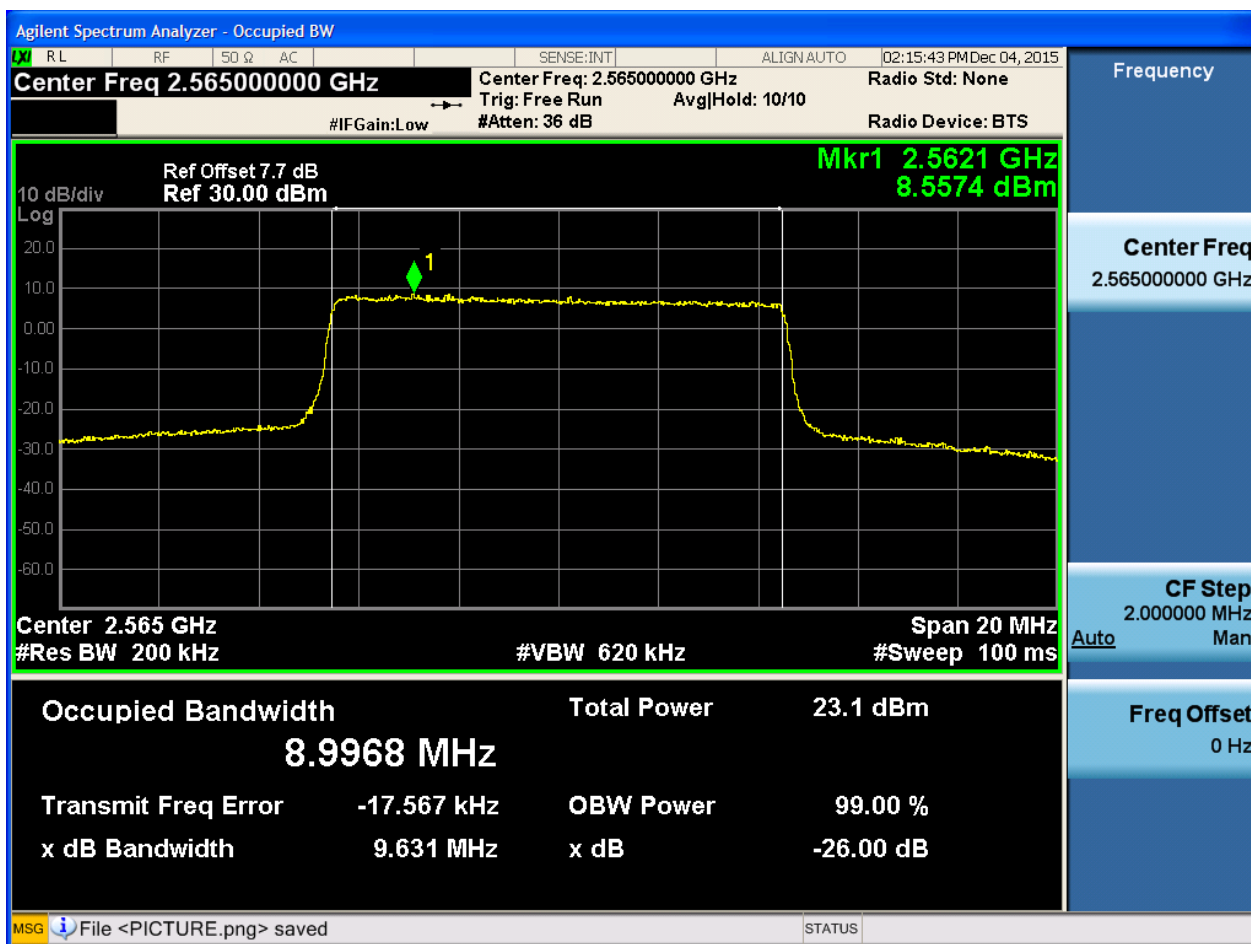
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

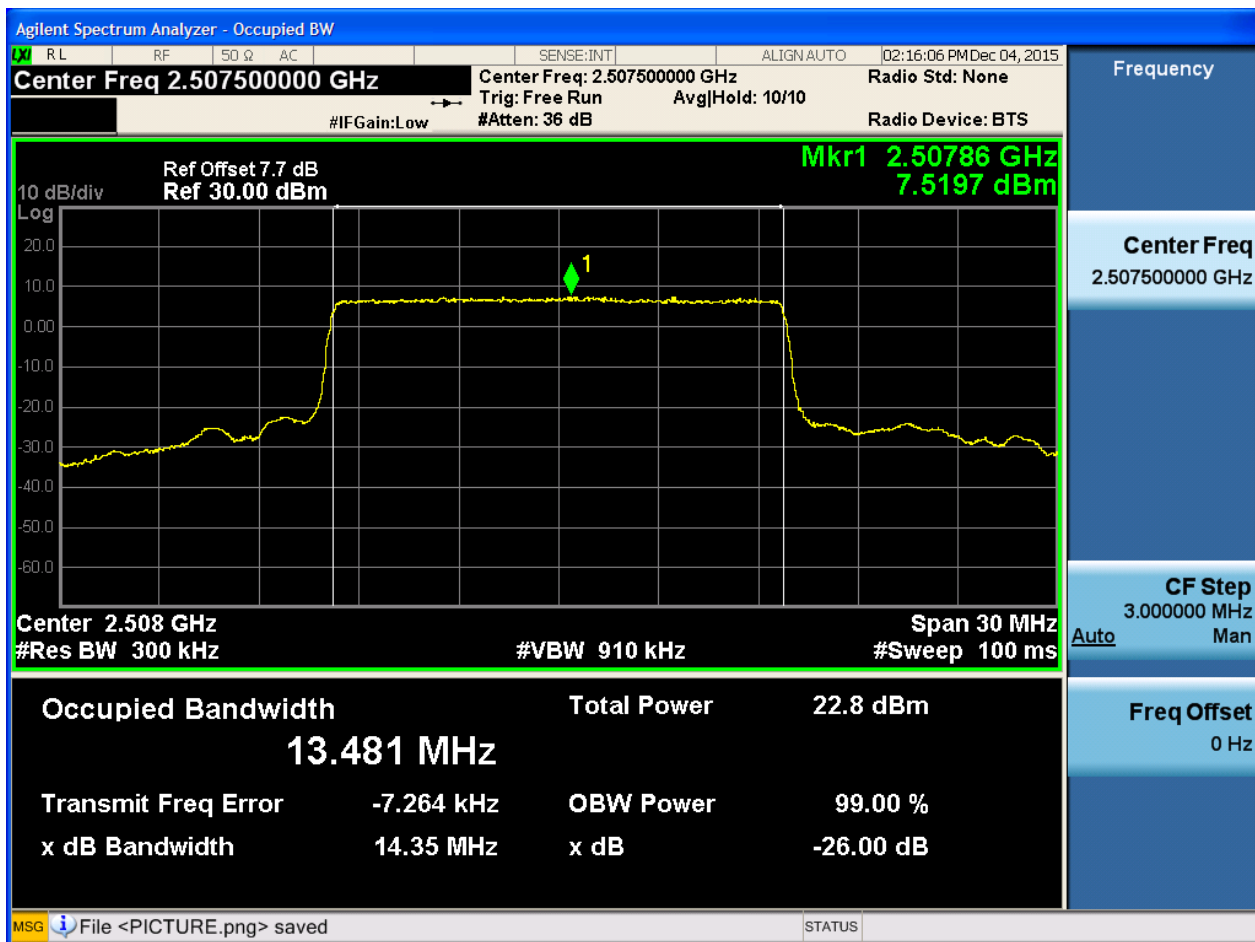




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

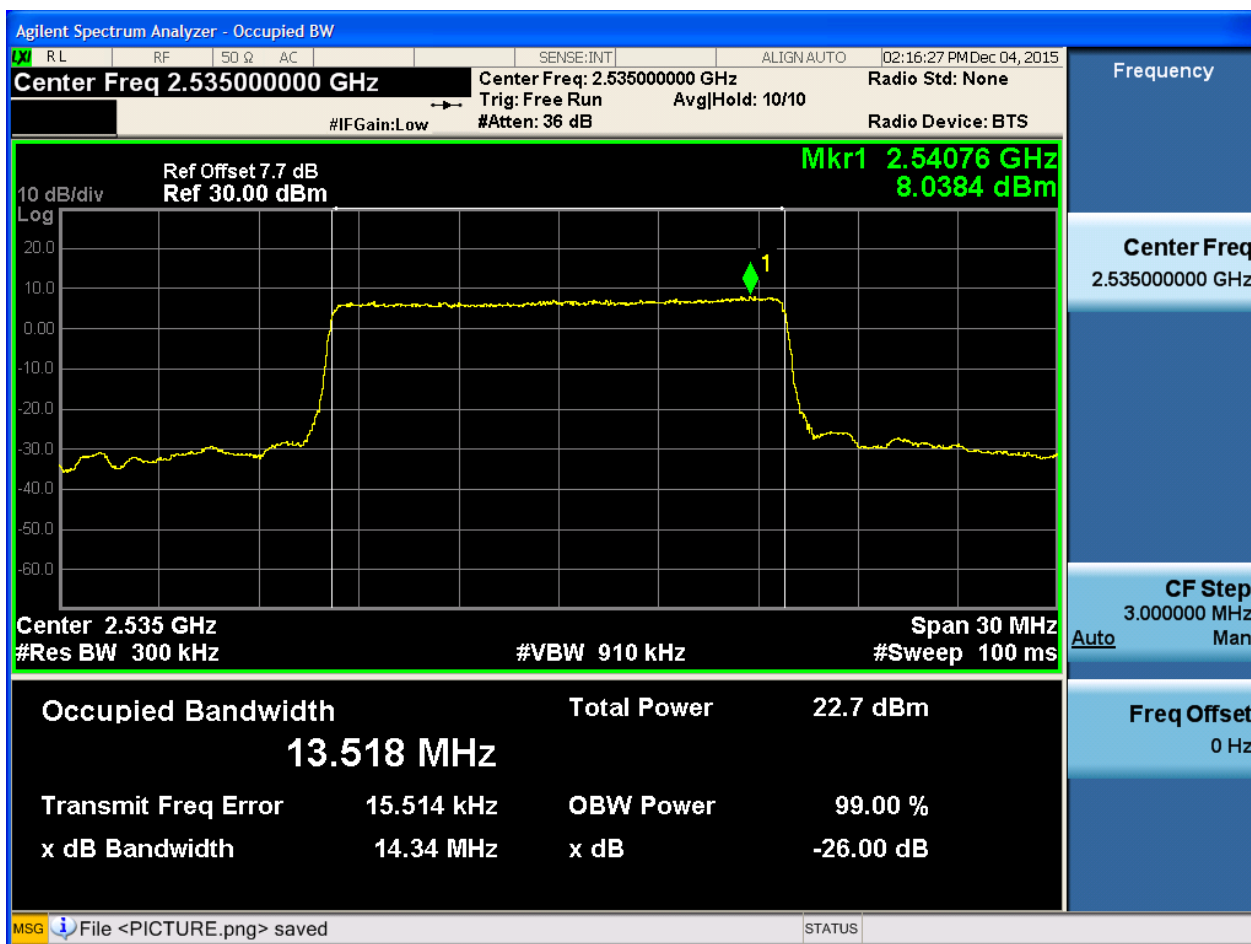
4.1.1.1.3.1.1 Test RB = RB75#0





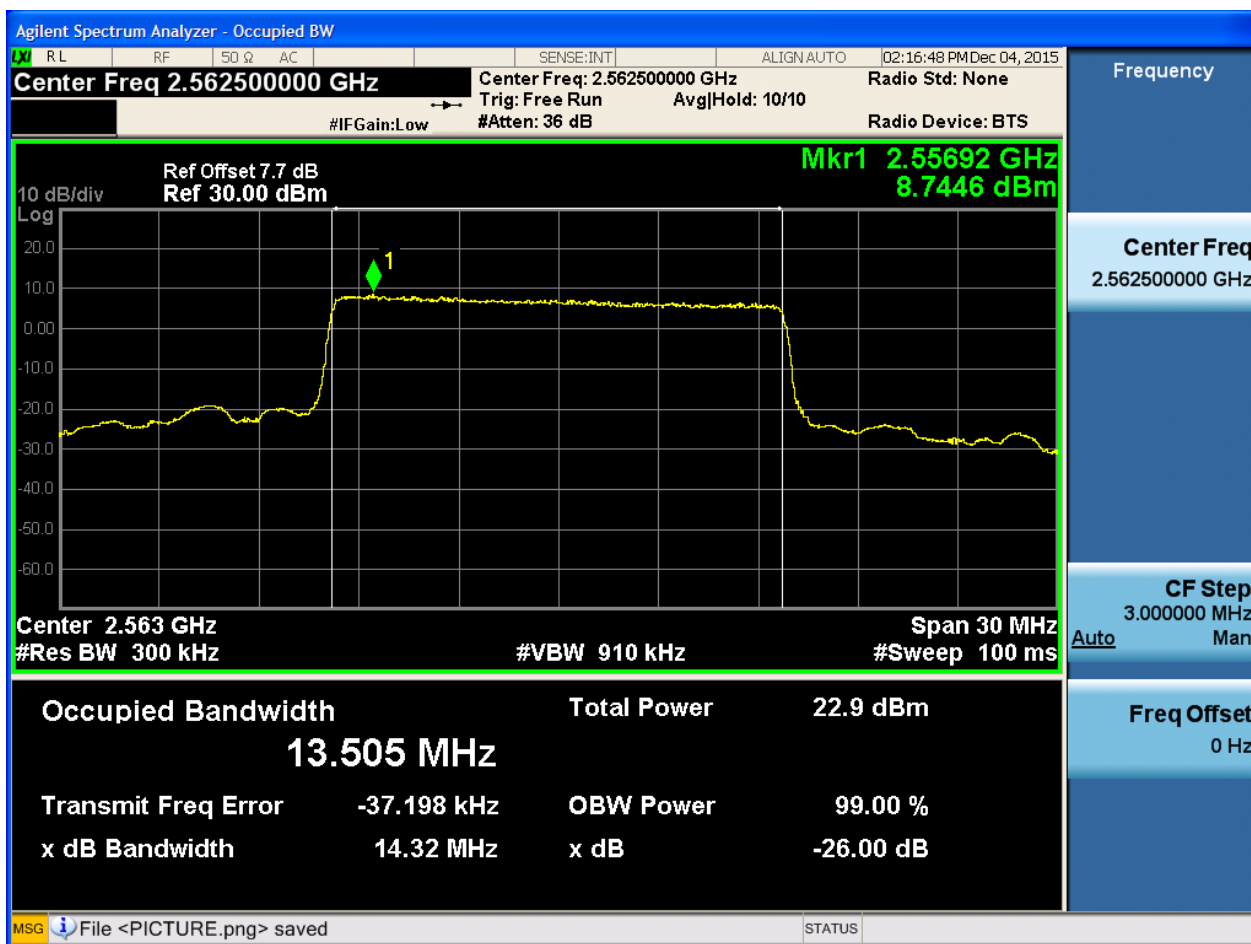
4.1.1.1.3.2 Test Channel = MCH

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

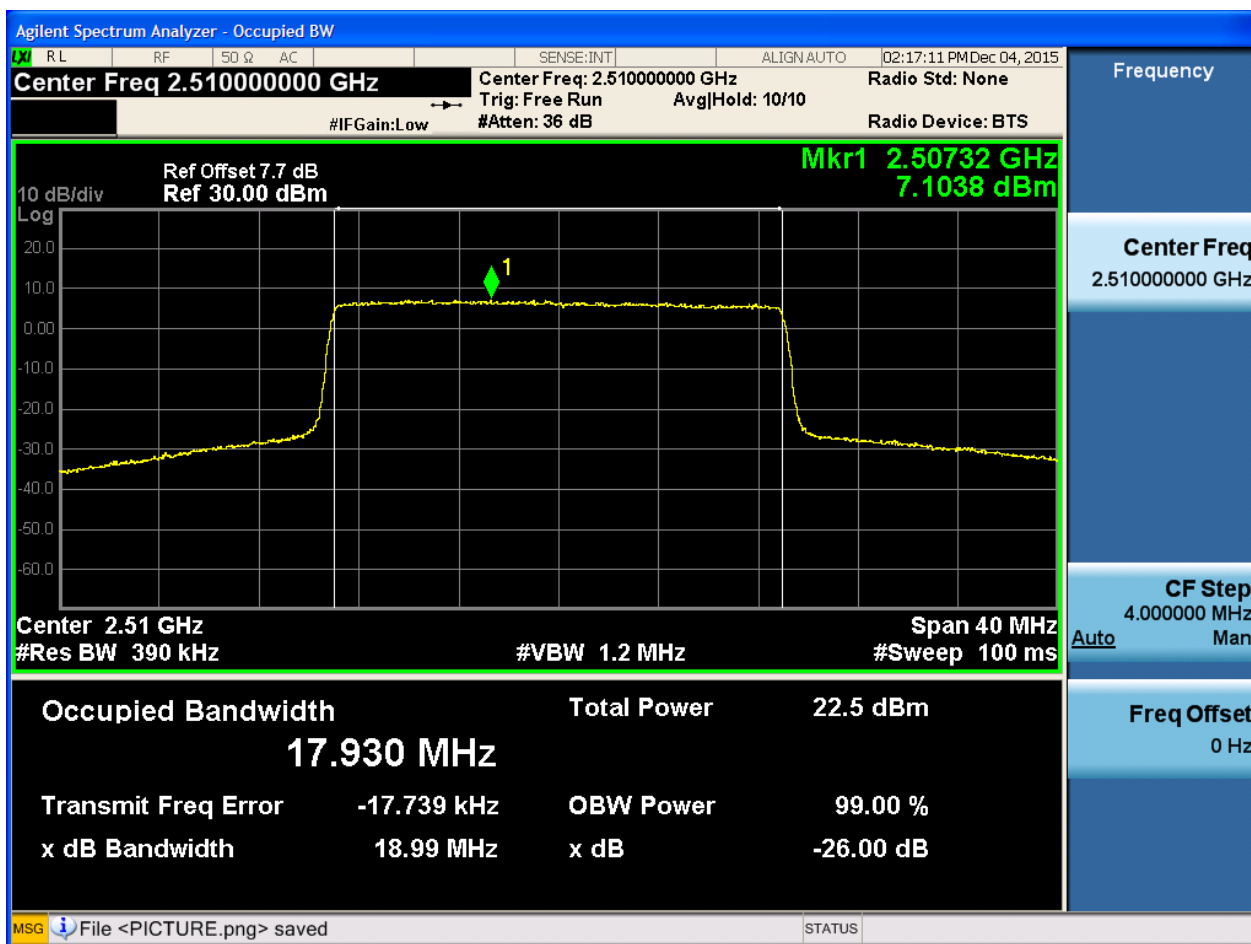




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

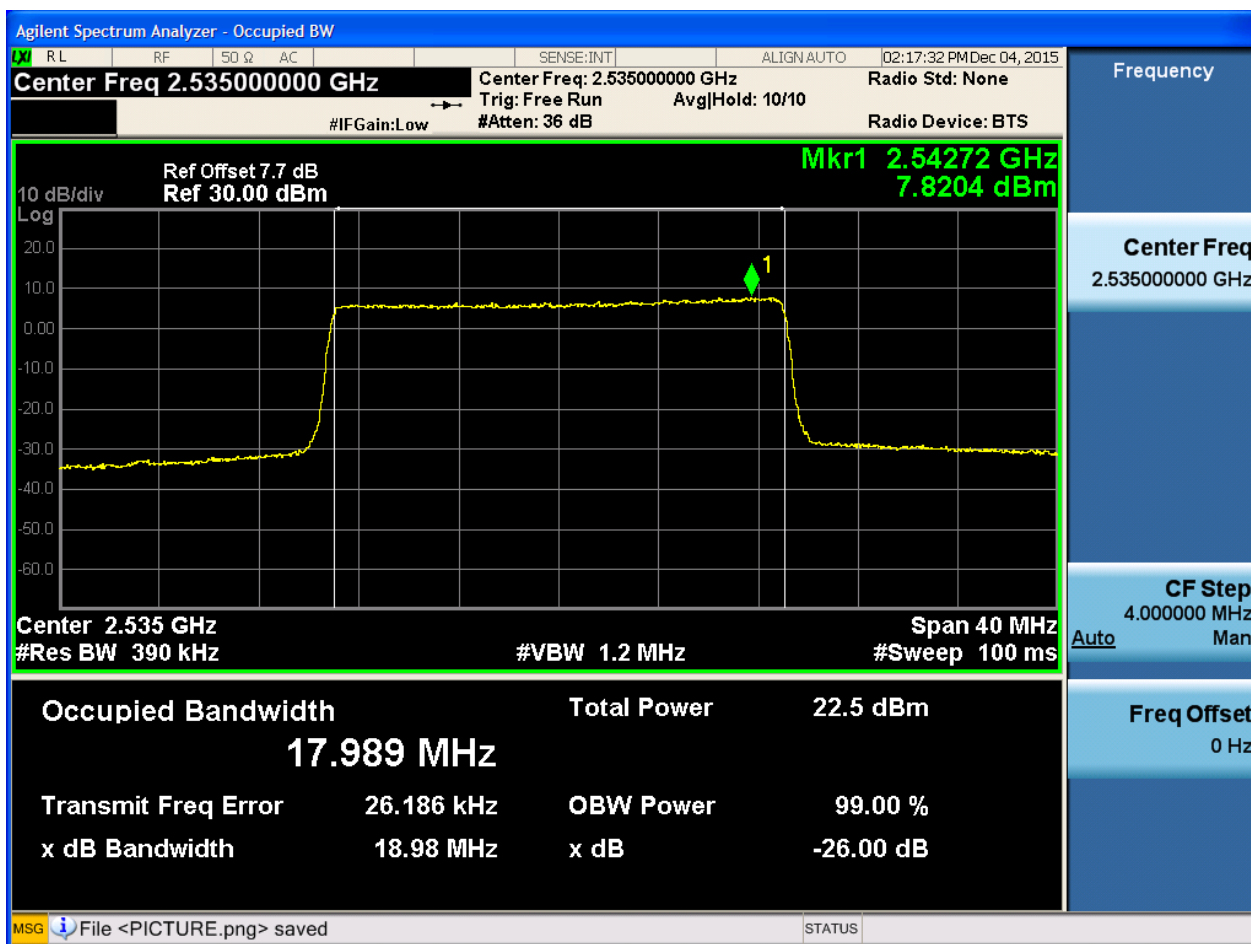
4.1.1.1.4.1.1 Test RB = RB100#0





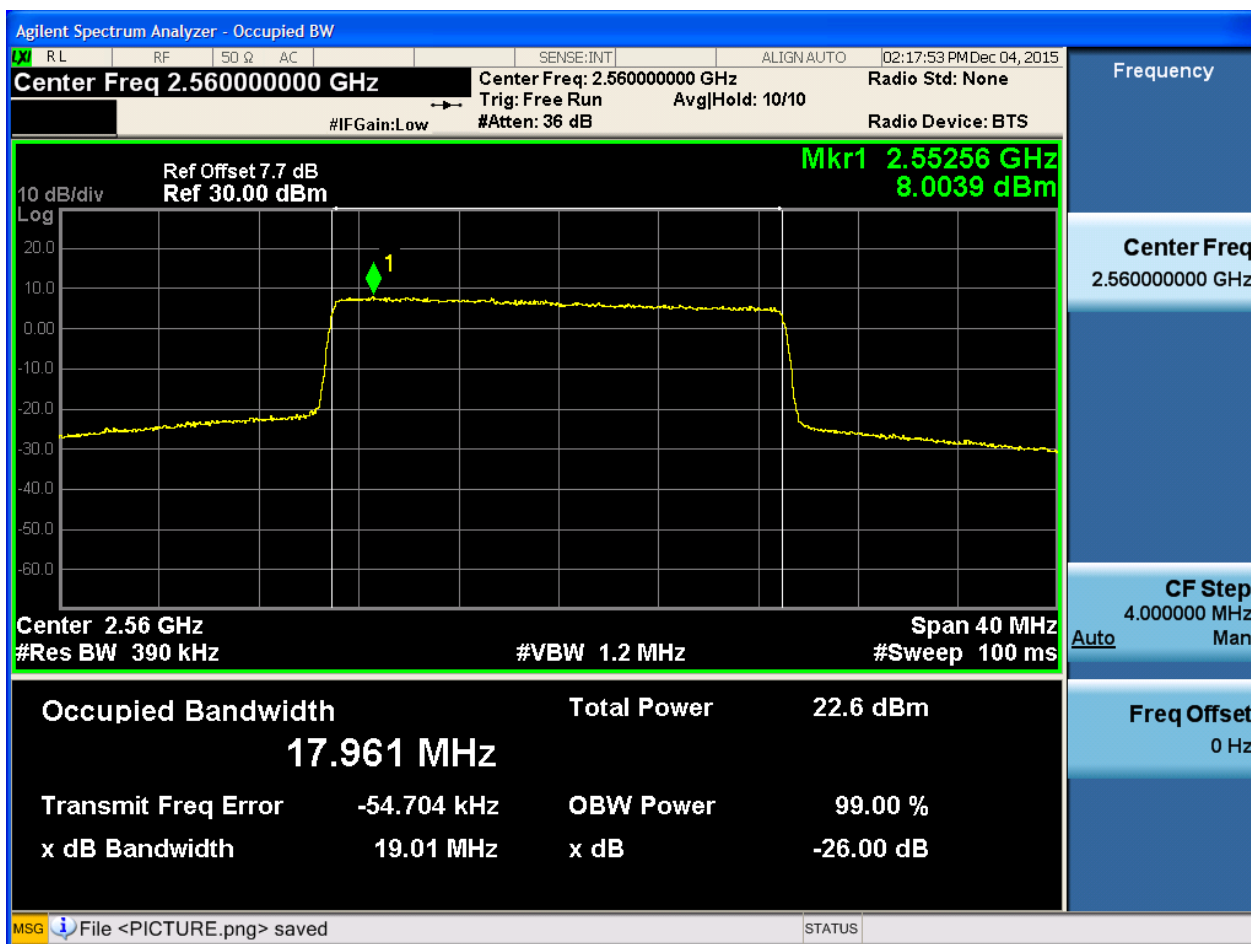
4.1.1.1.4.2 Test Channel = MCH

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



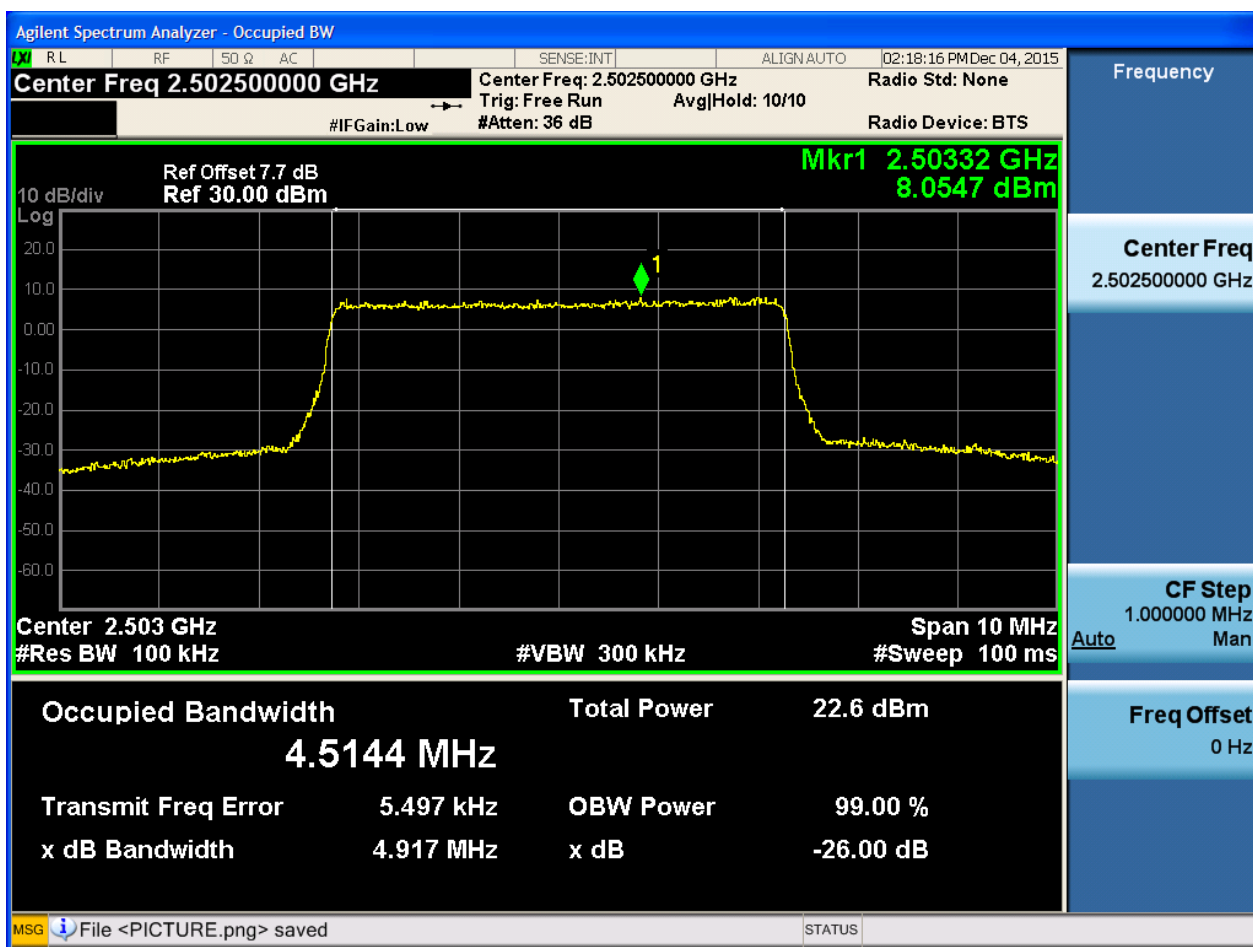


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

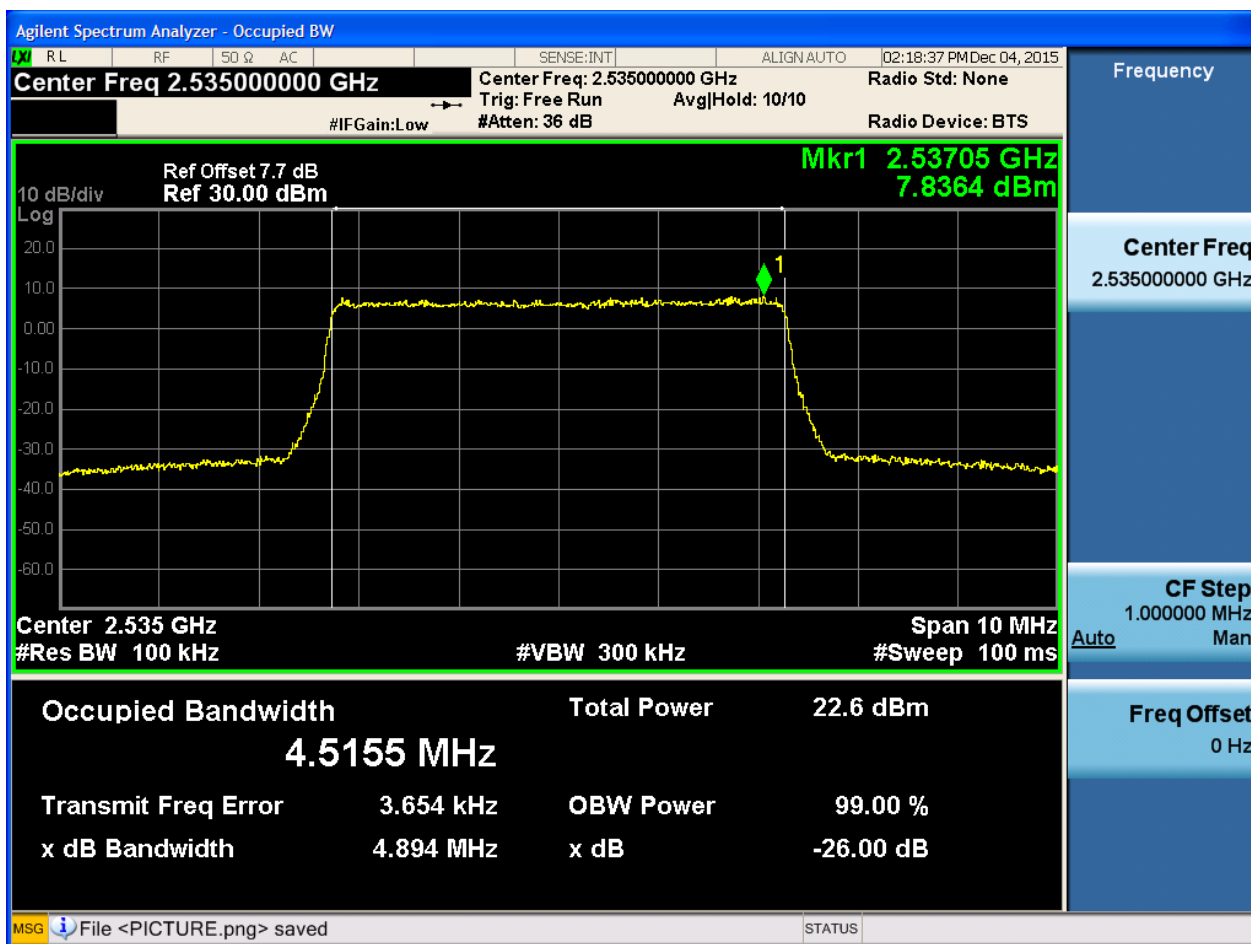
4.1.1.2.1.1.1 Test RB = RB25#0





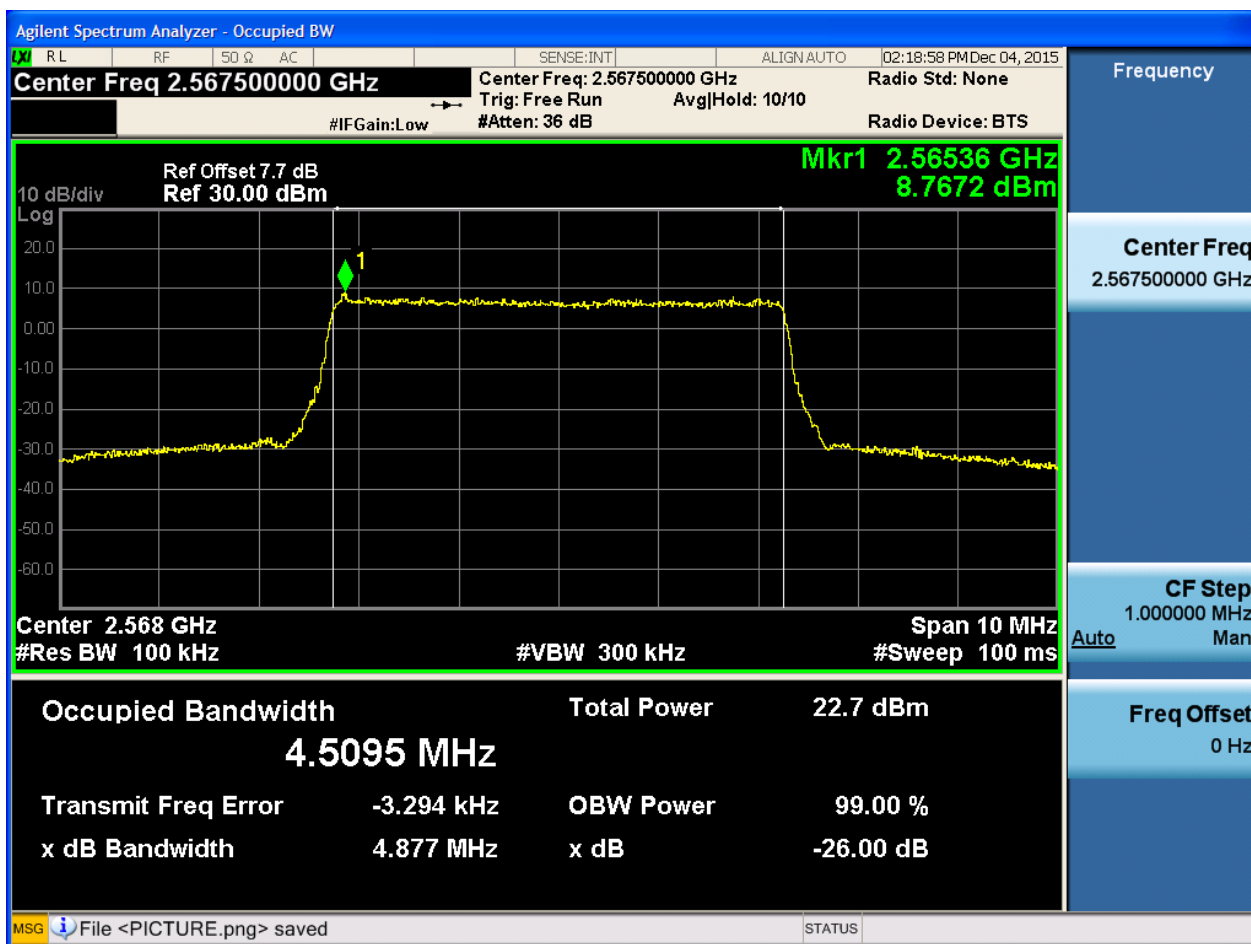
4.1.1.2.1.2 Test Channel = MCH

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

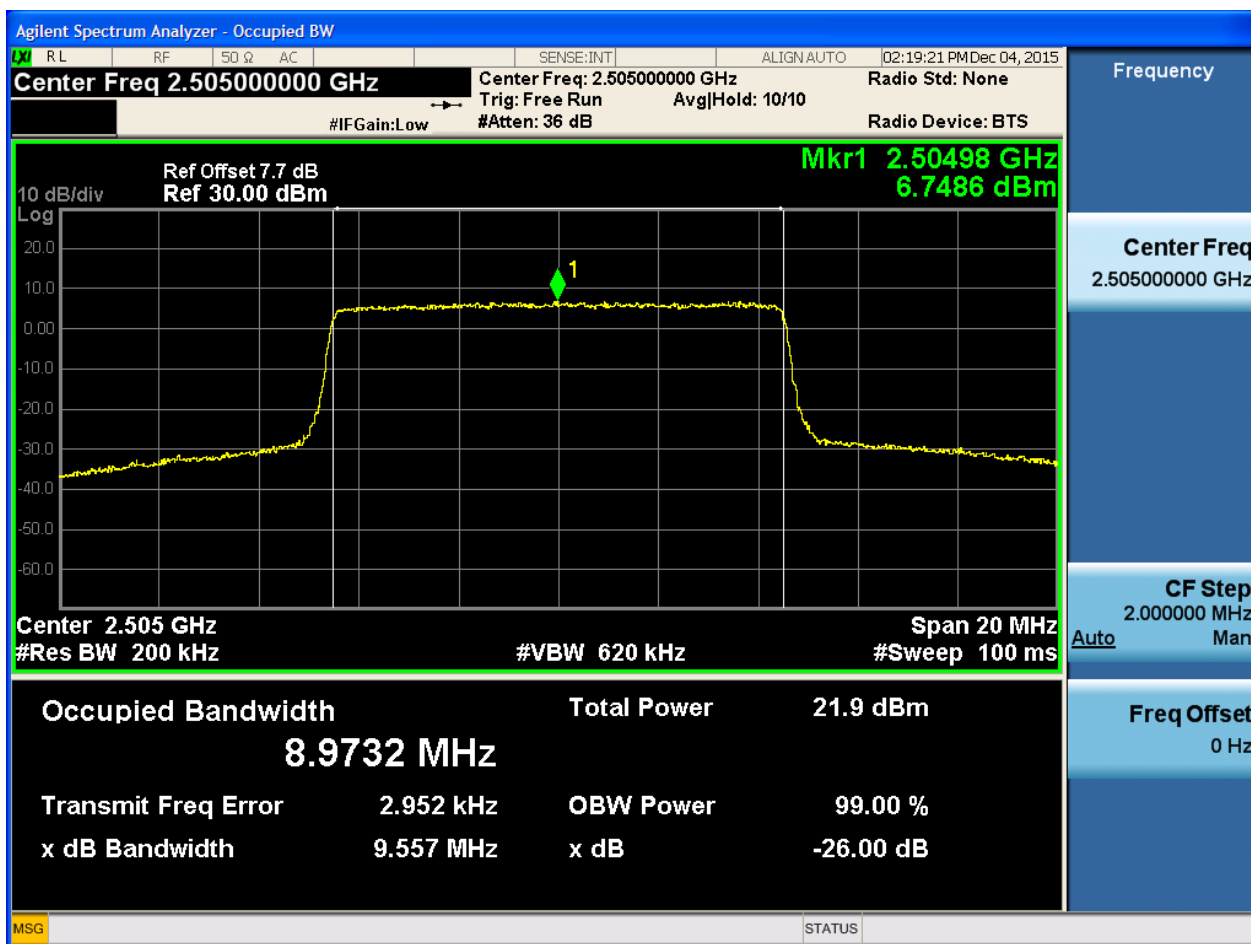




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

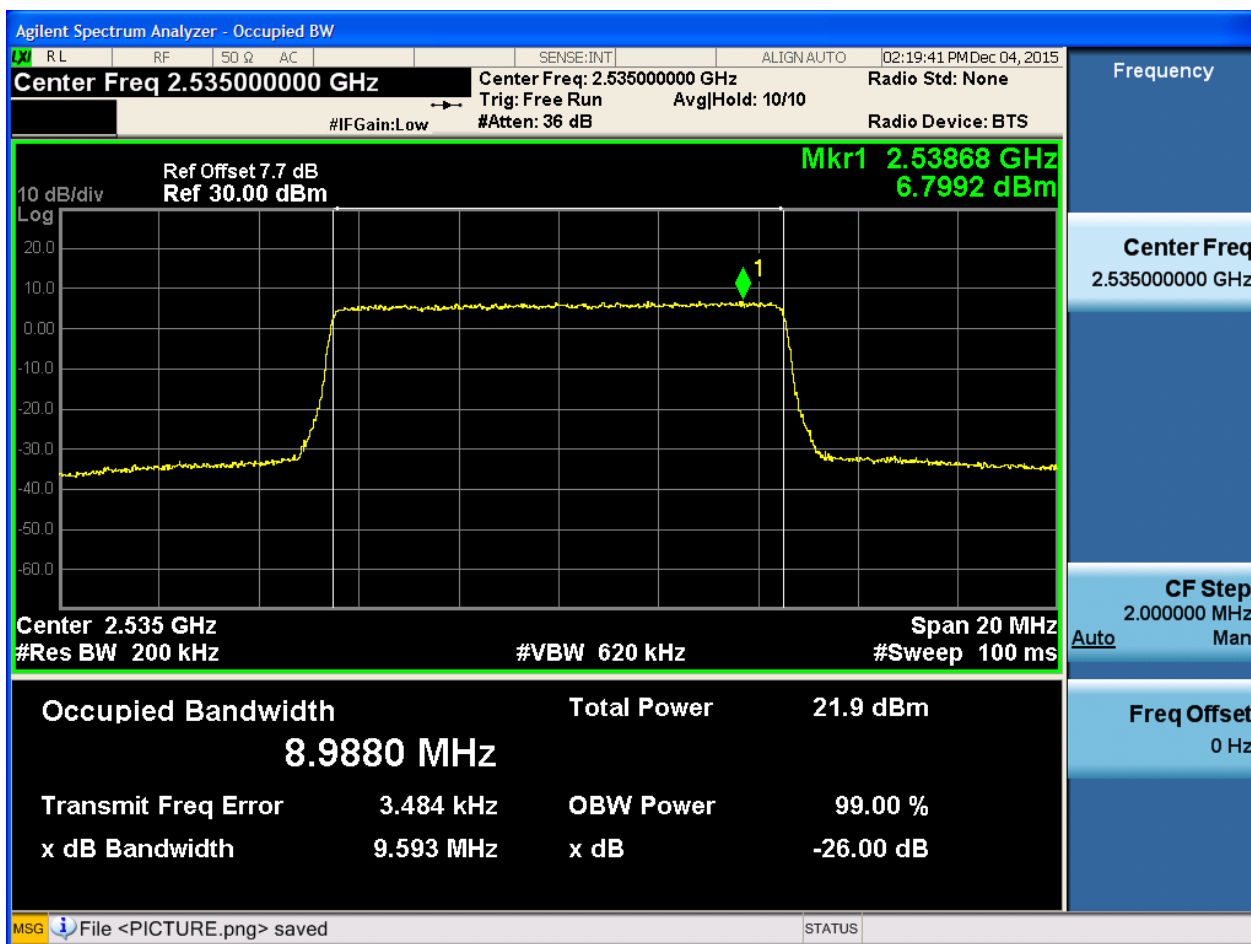
4.1.1.2.2.1.1 Test RB = RB50#0





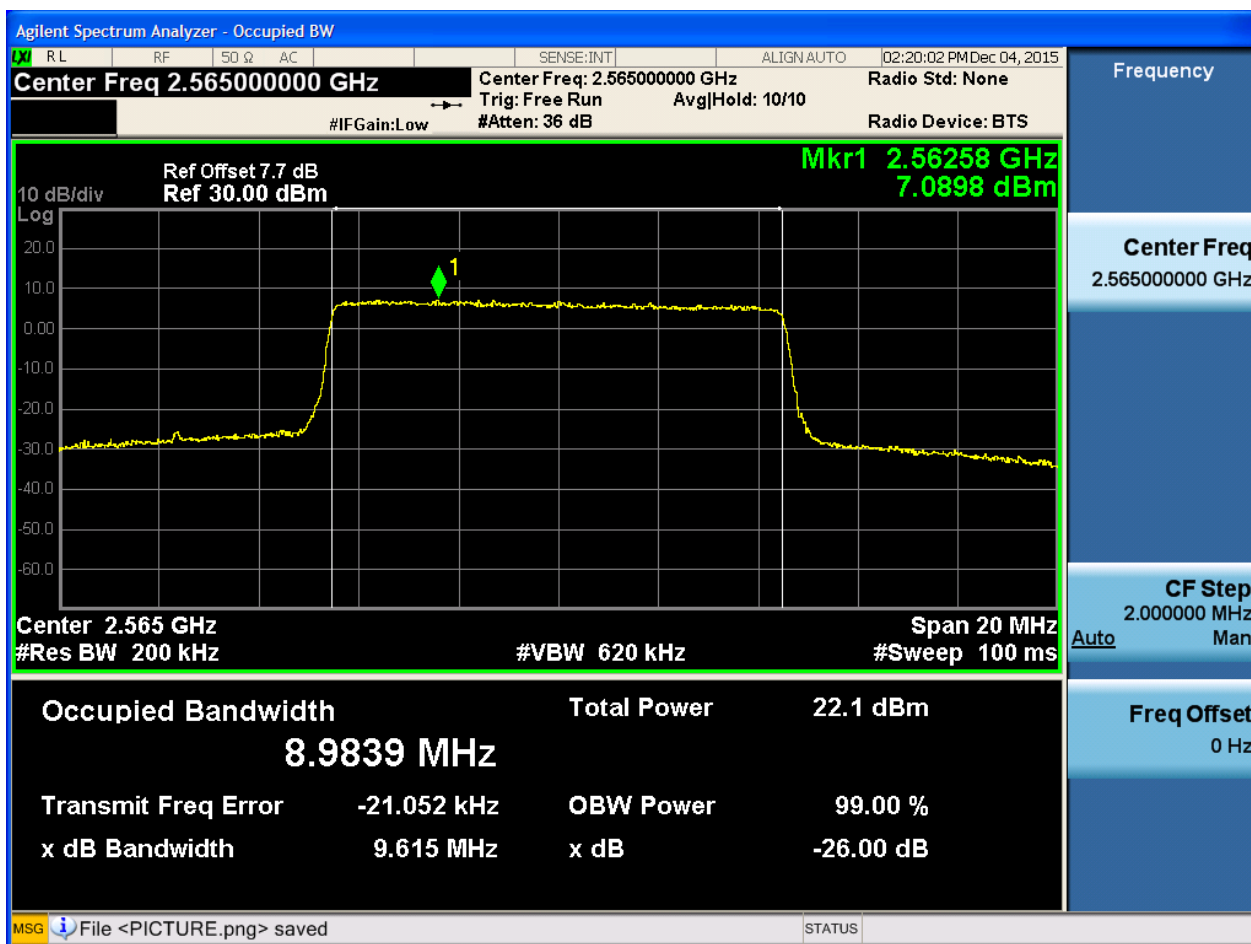
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB50#0



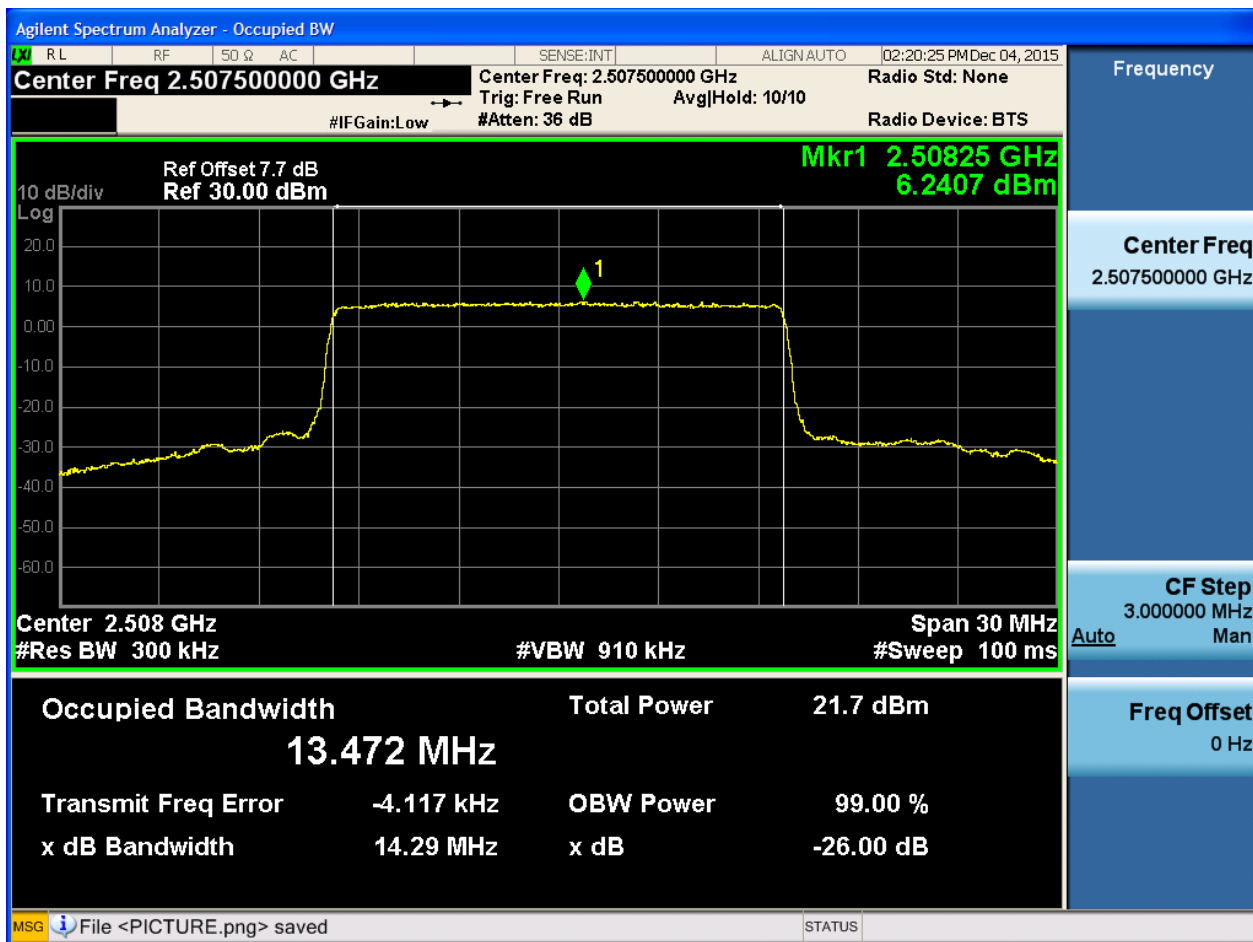
4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0





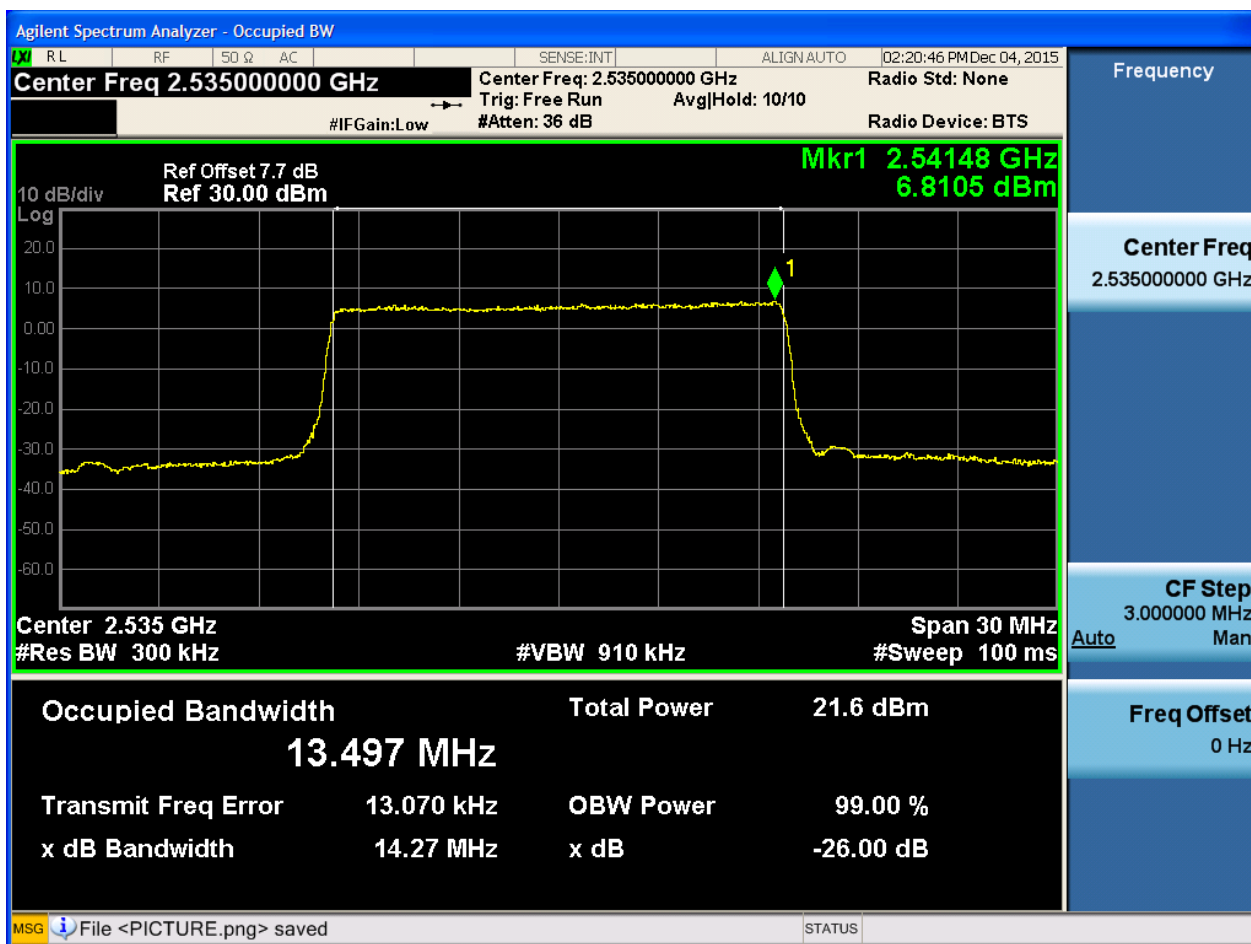
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

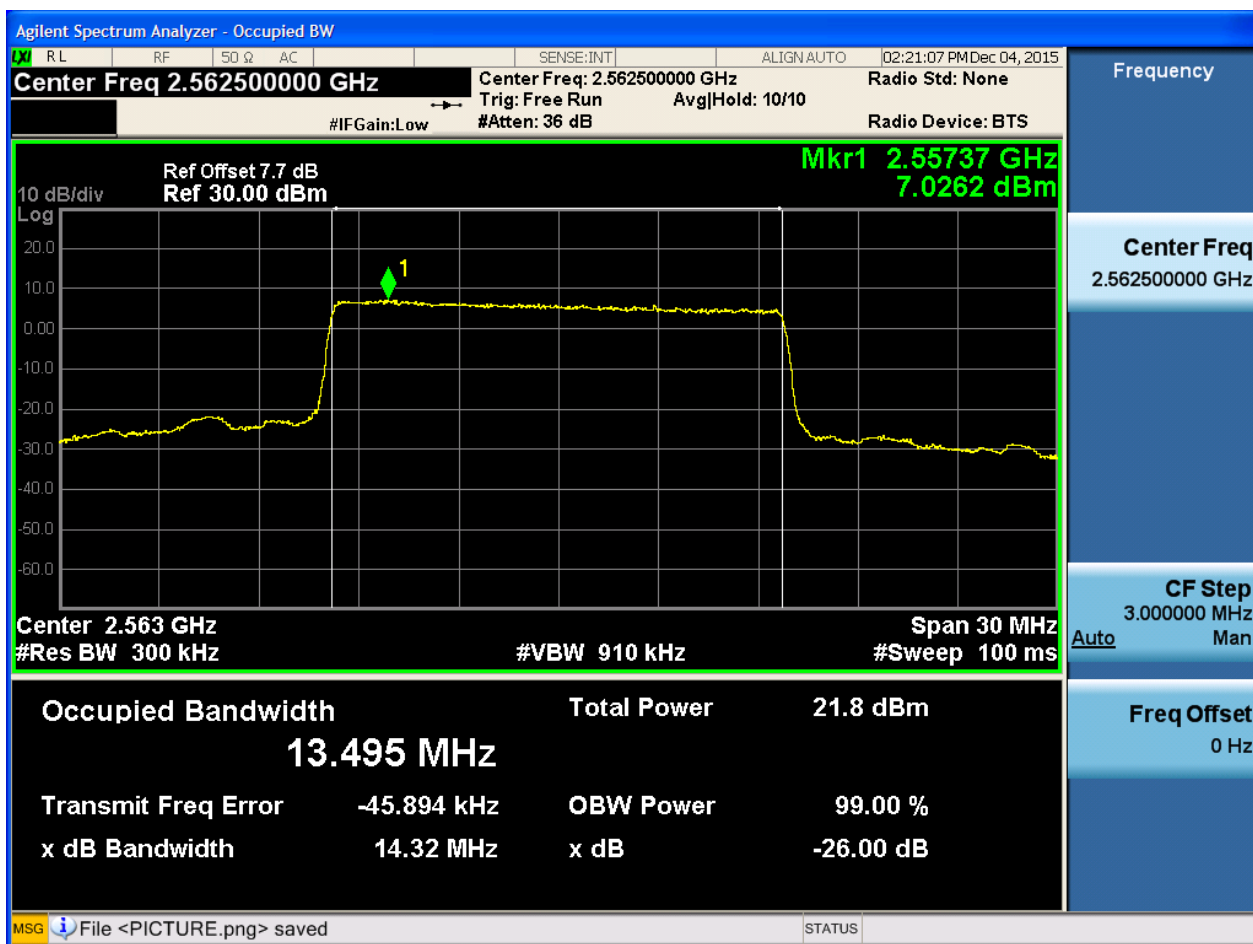
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

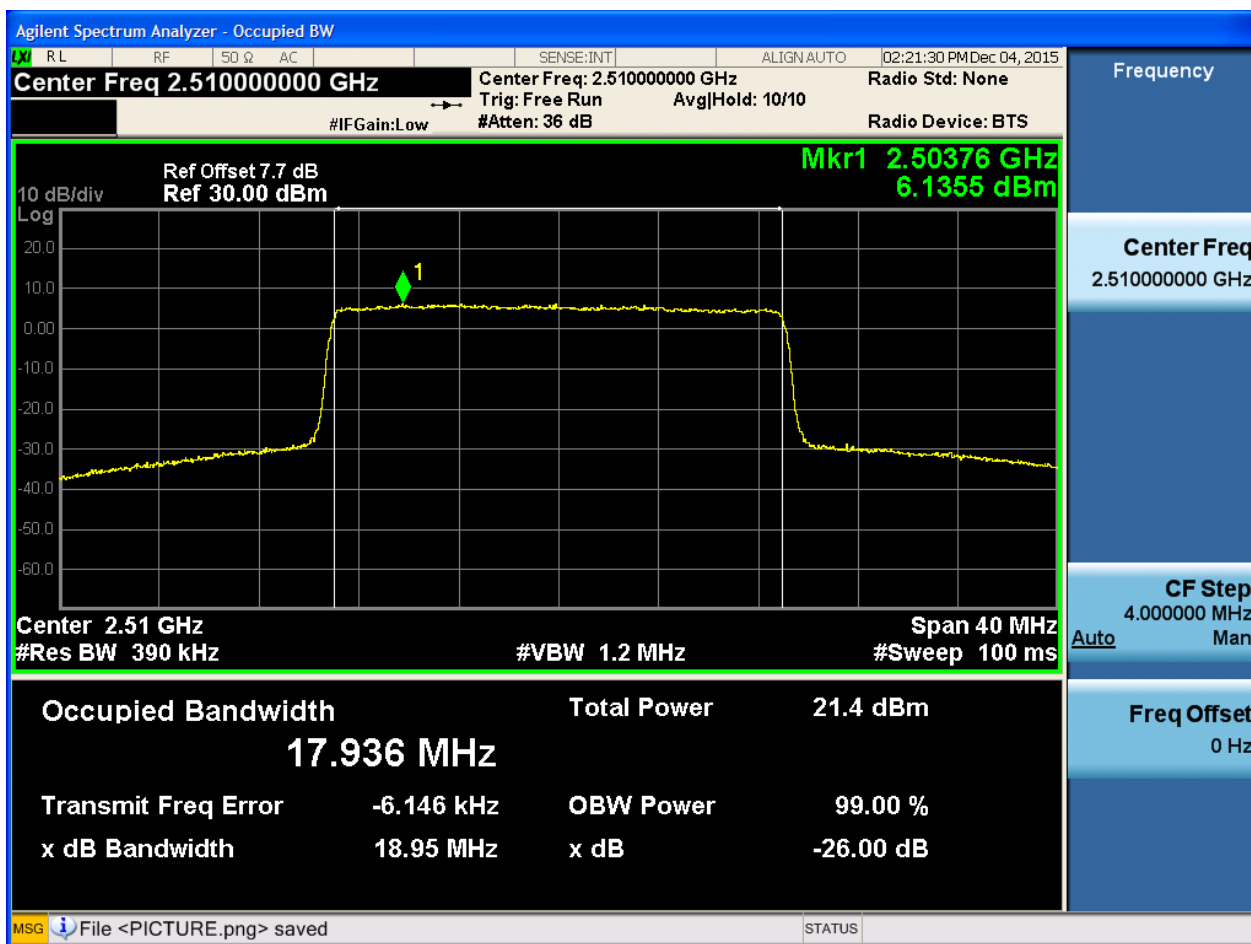




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

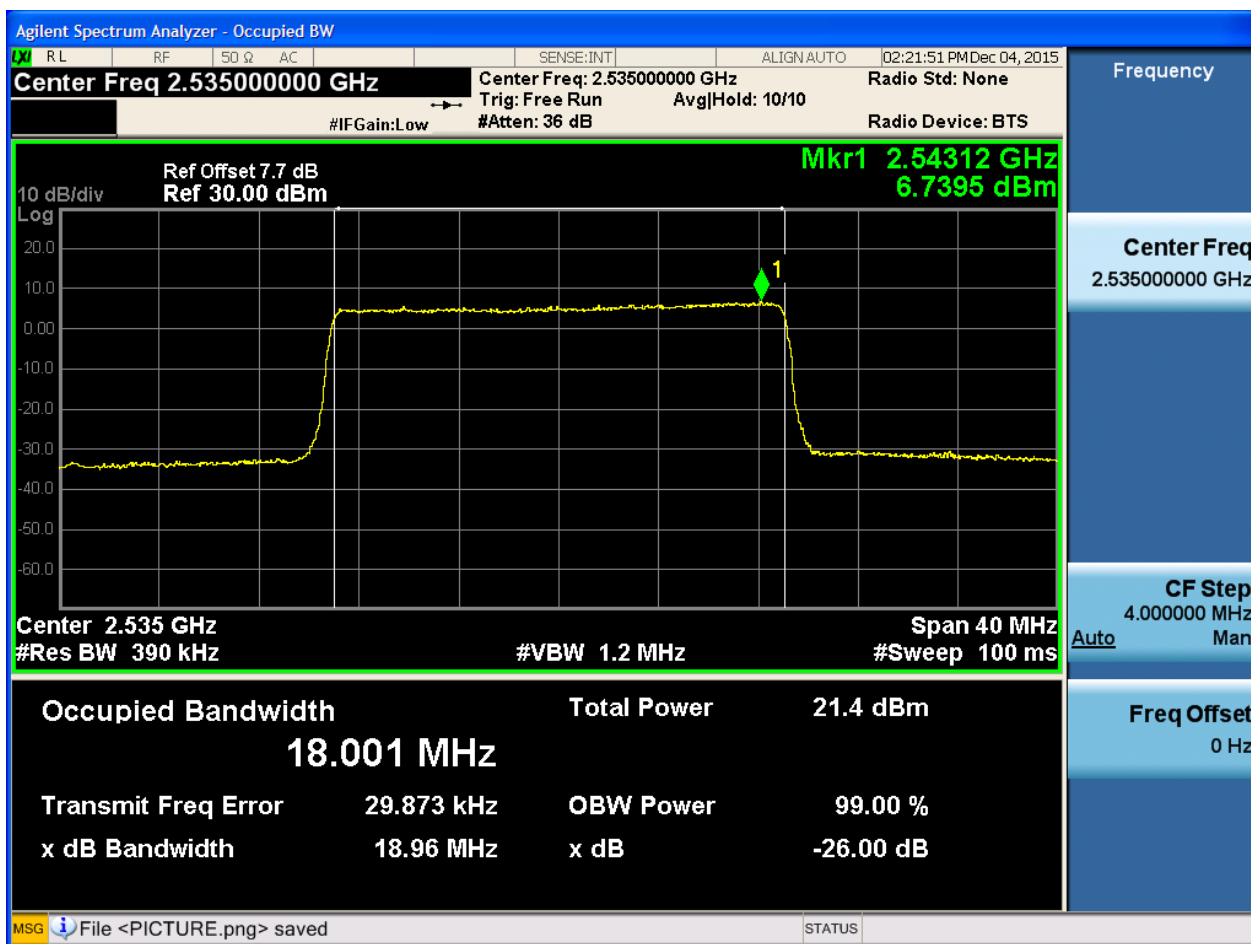
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

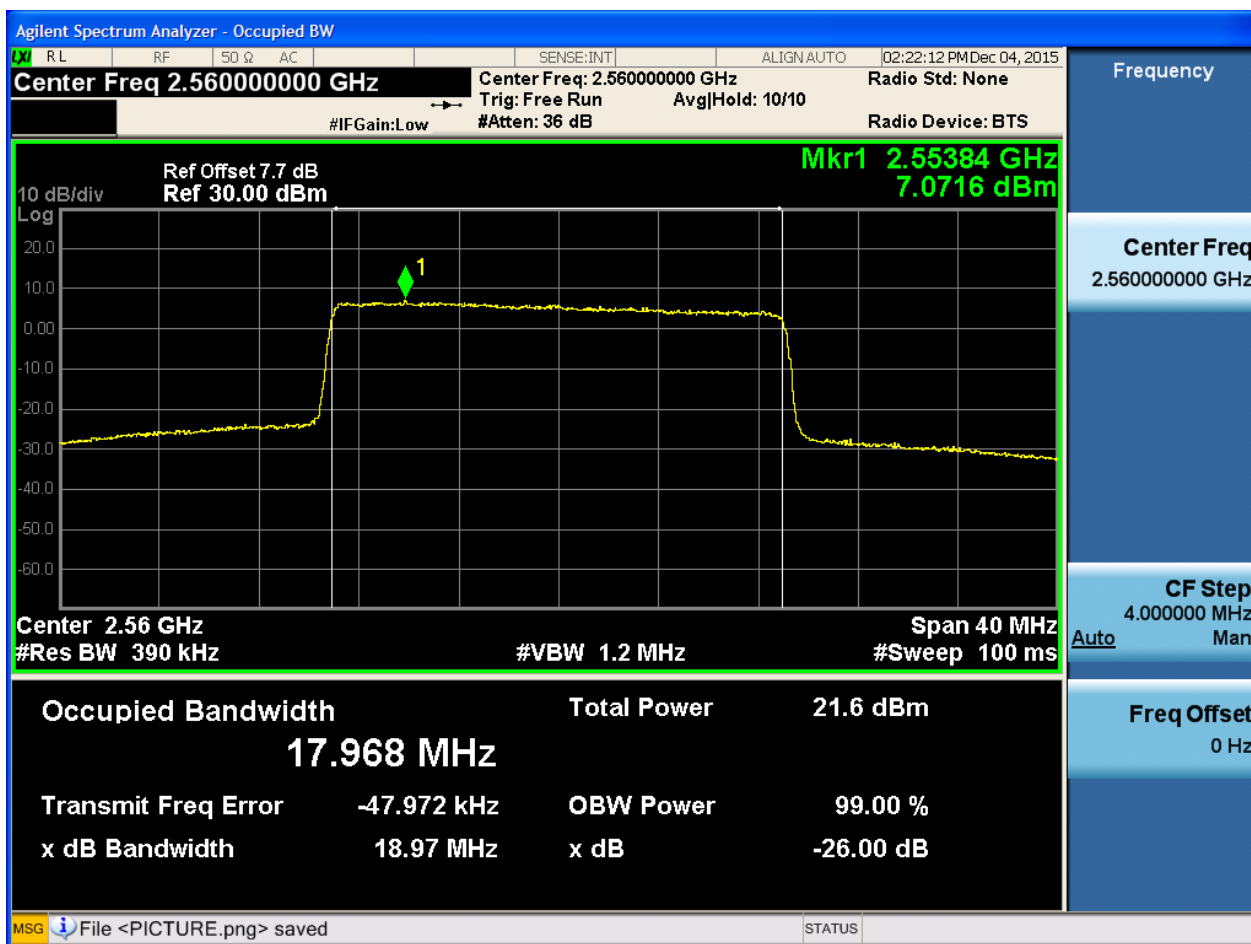
4.1.1.2.4.2.1 Test RB = RB100#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB100#0





Part I - Test Plots

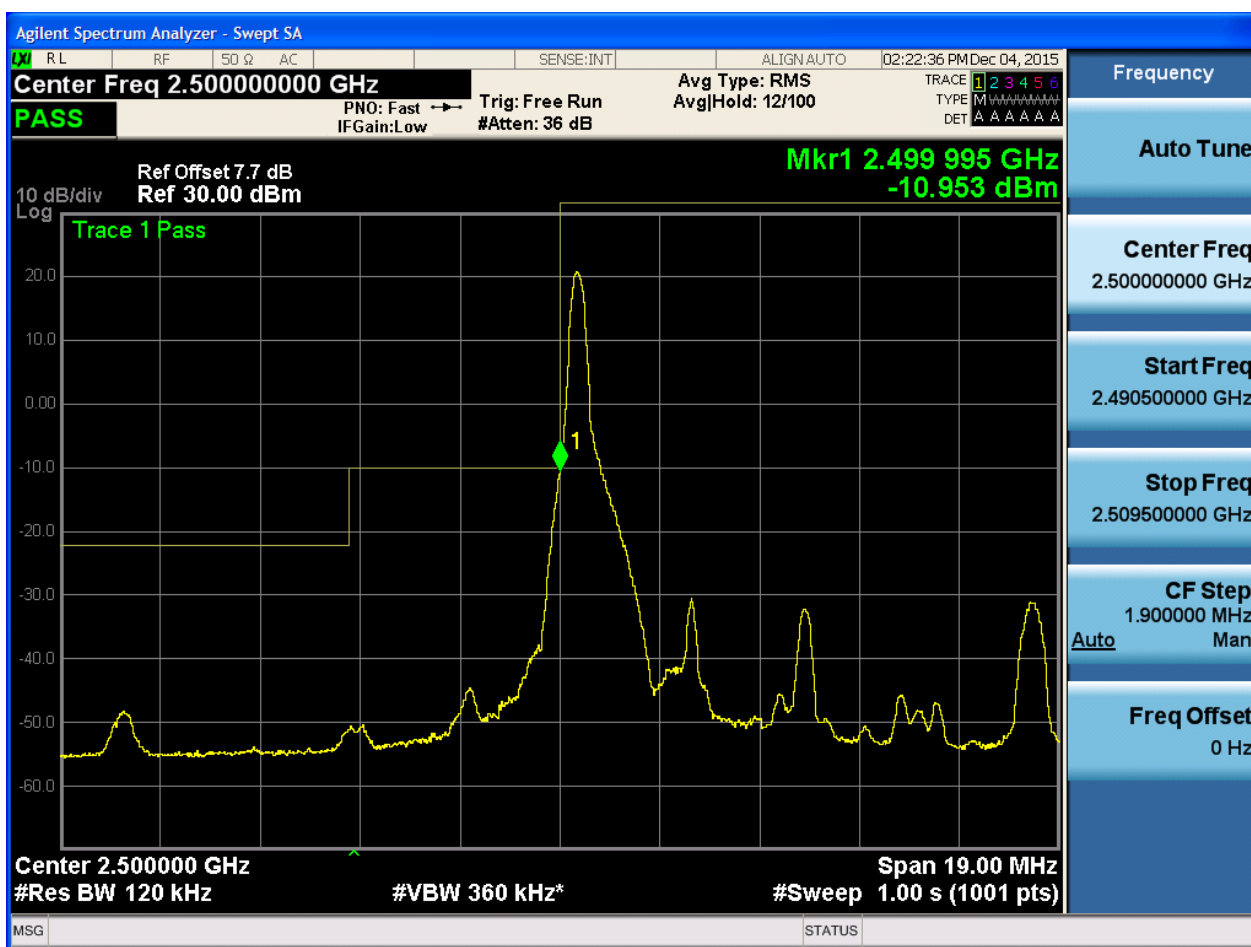
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

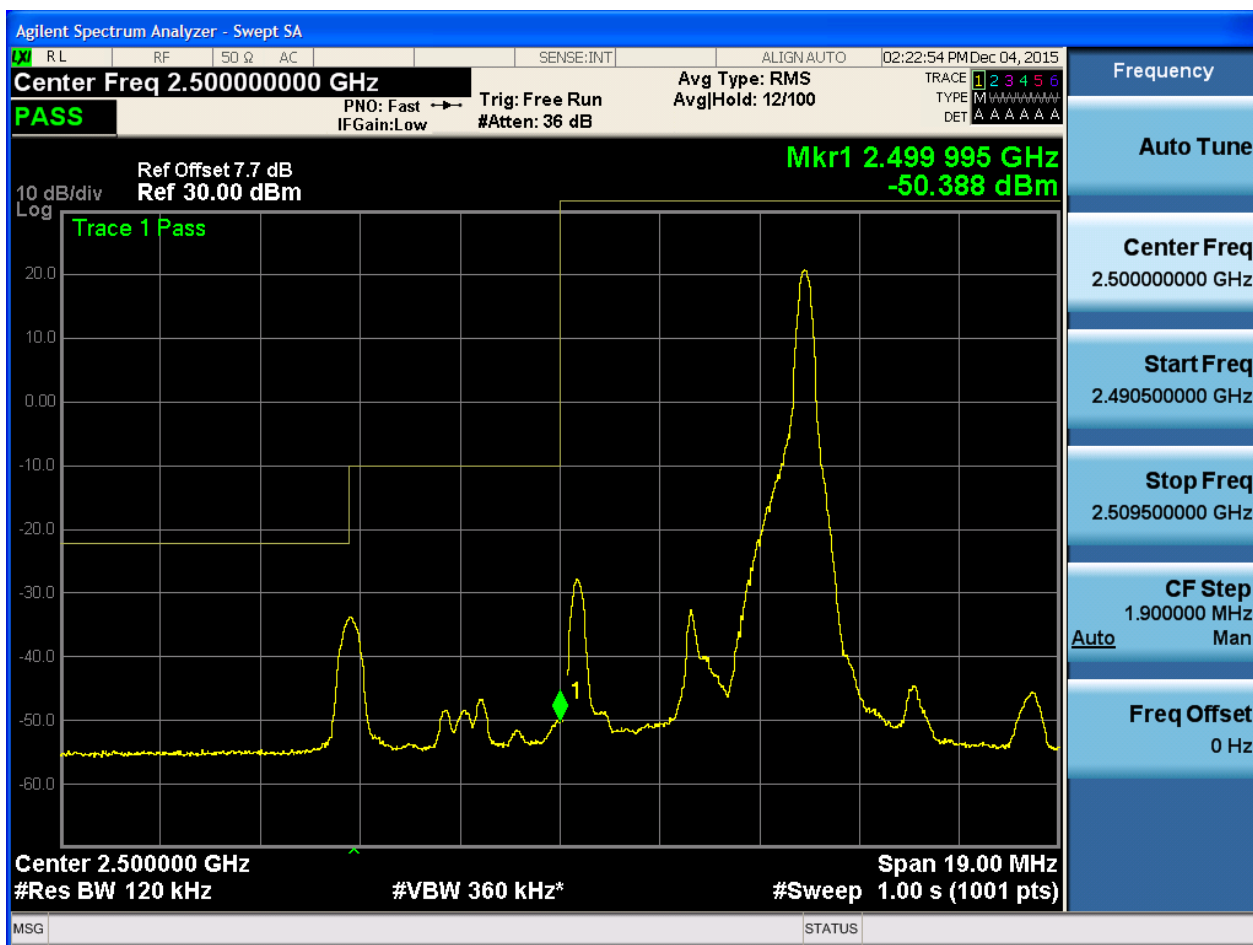
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



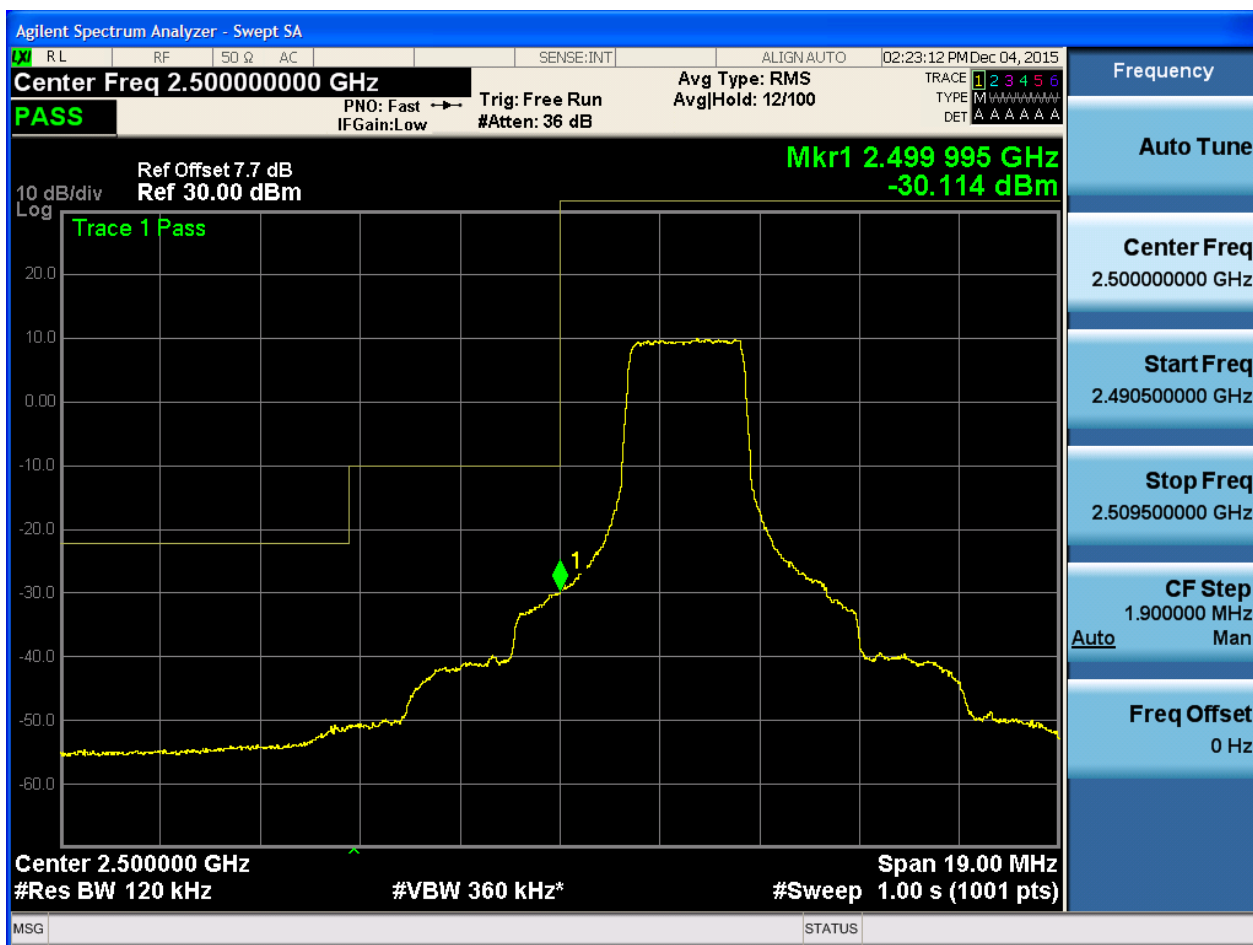


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6



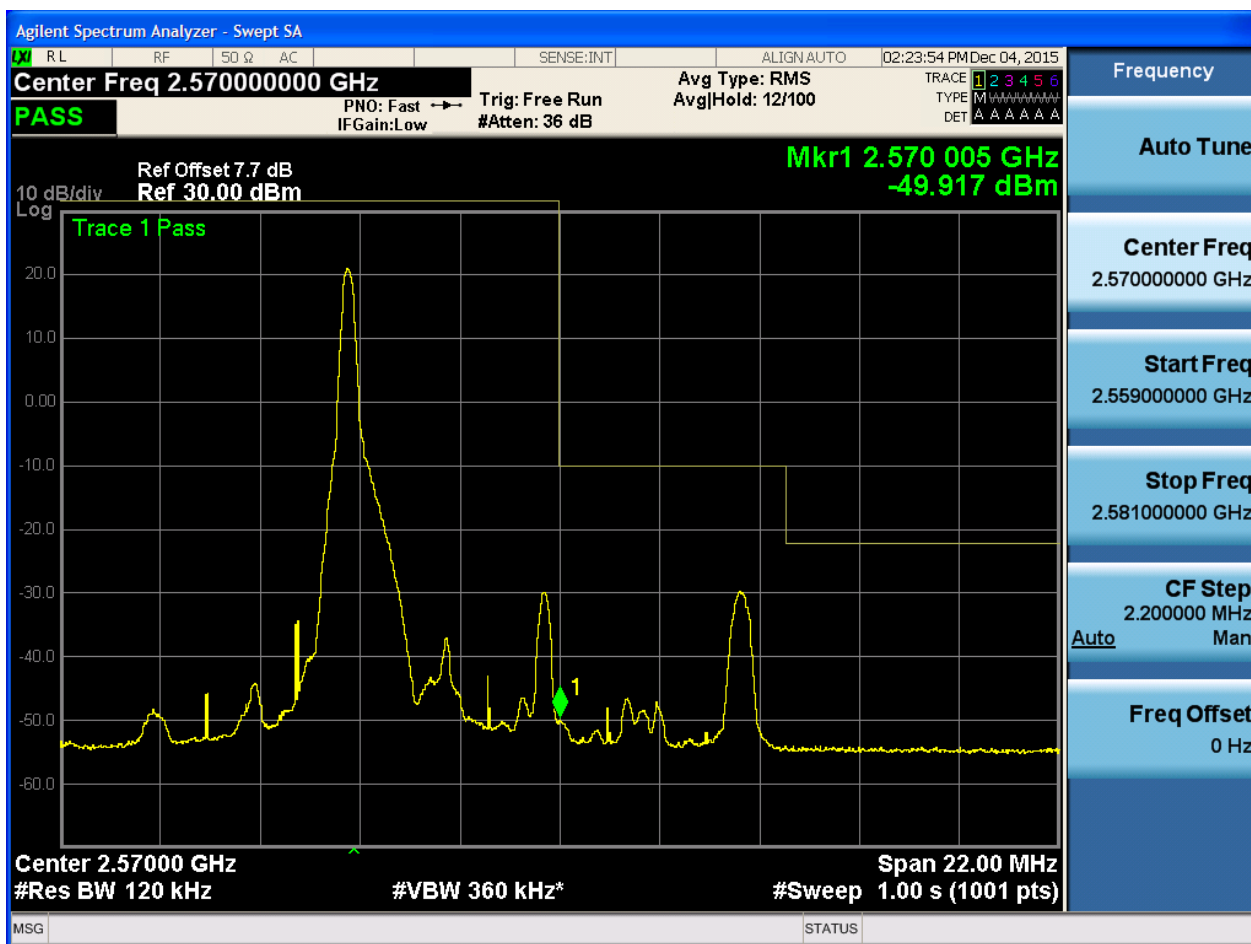


5.1.1.1.1.4 Test RB = RB25#0



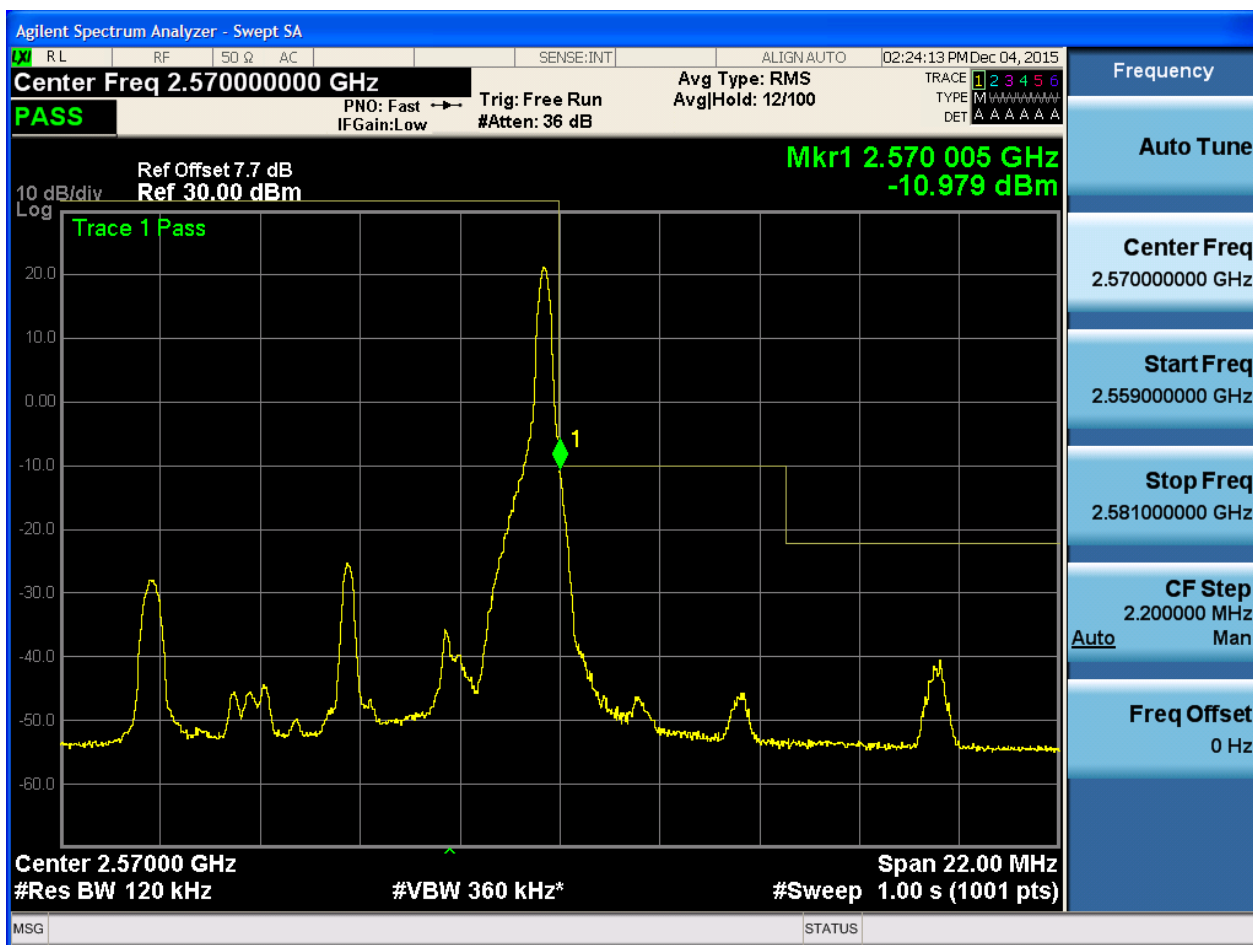
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB = RB1#0



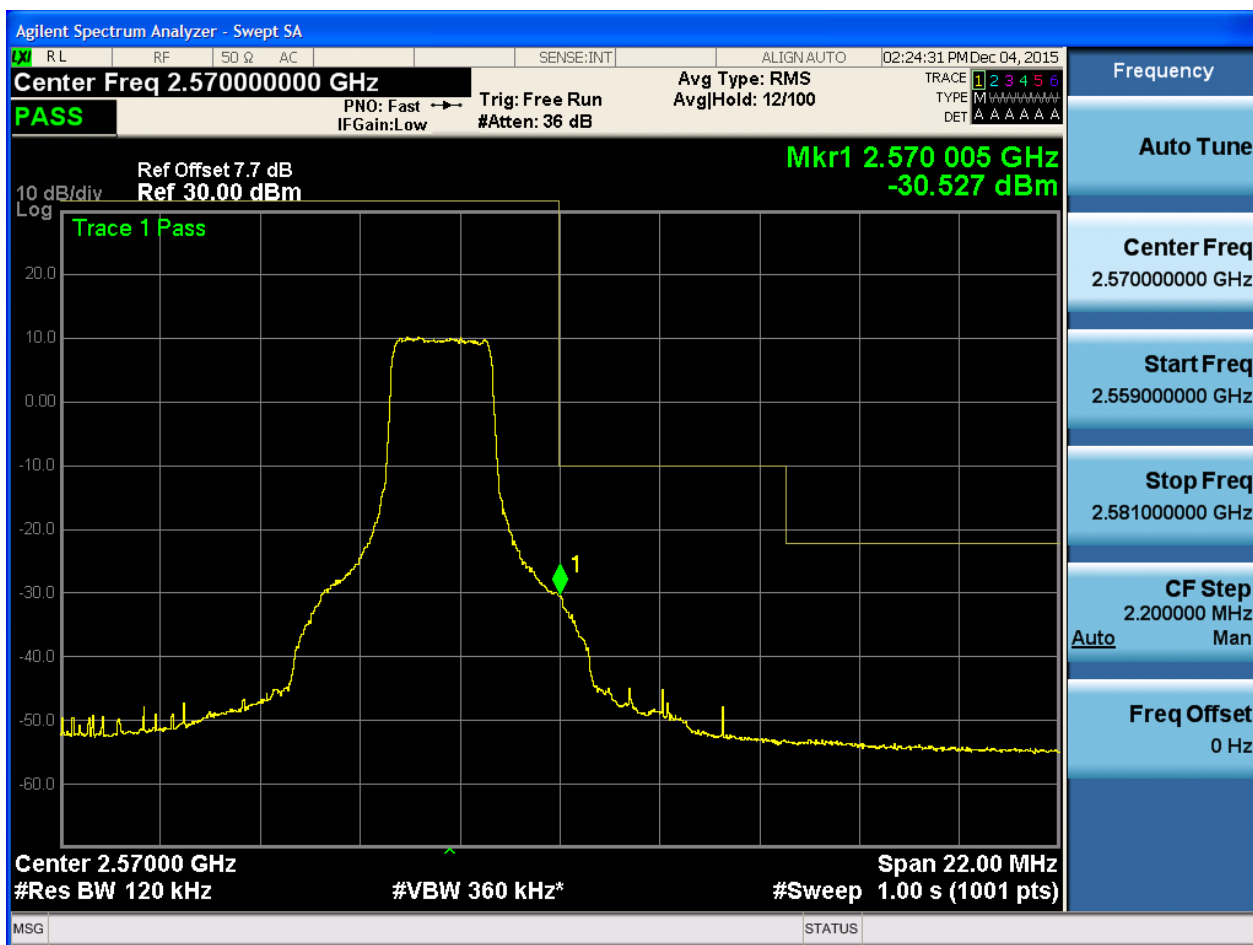


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

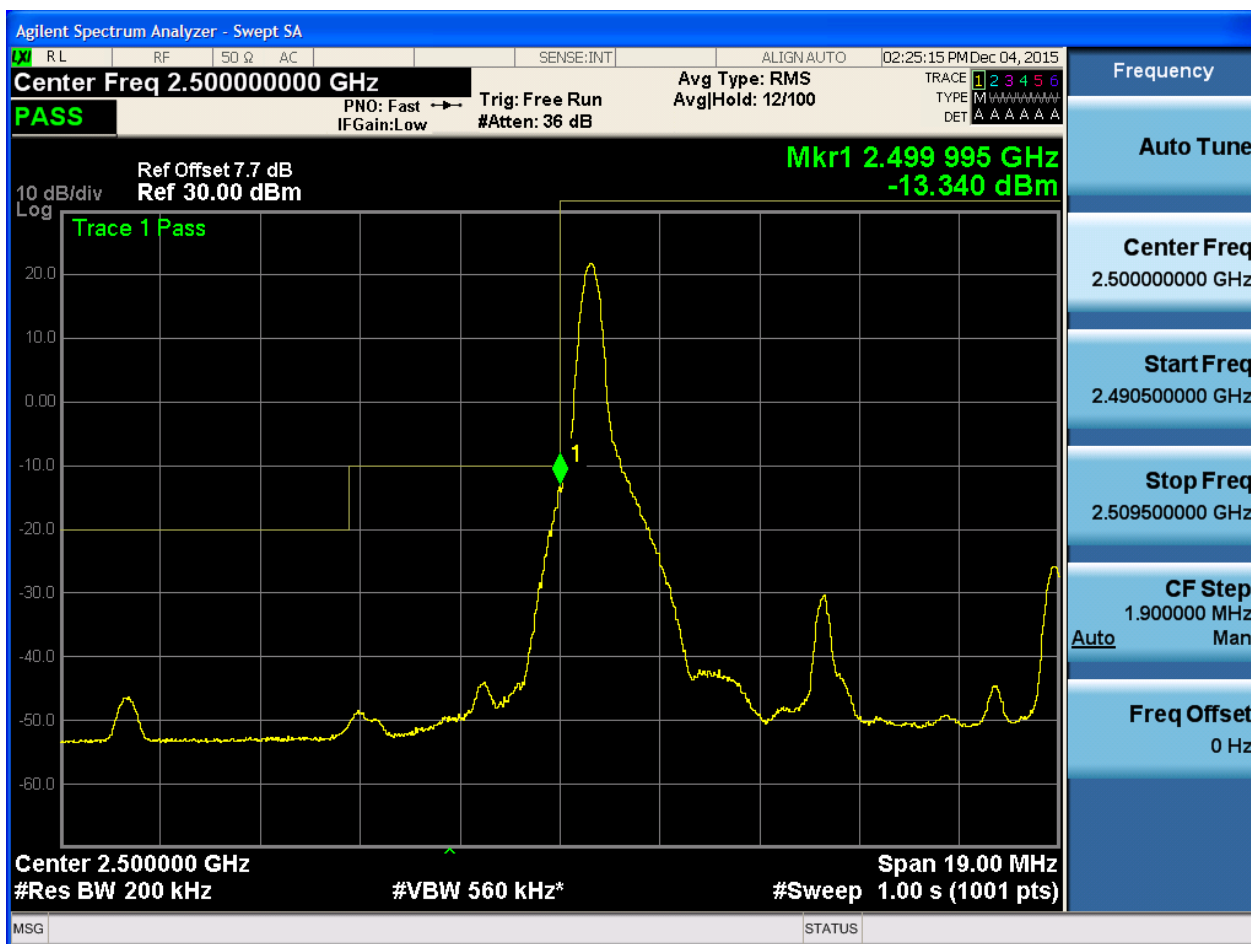




5.1.1.1.2 Test Bandwidth = 10

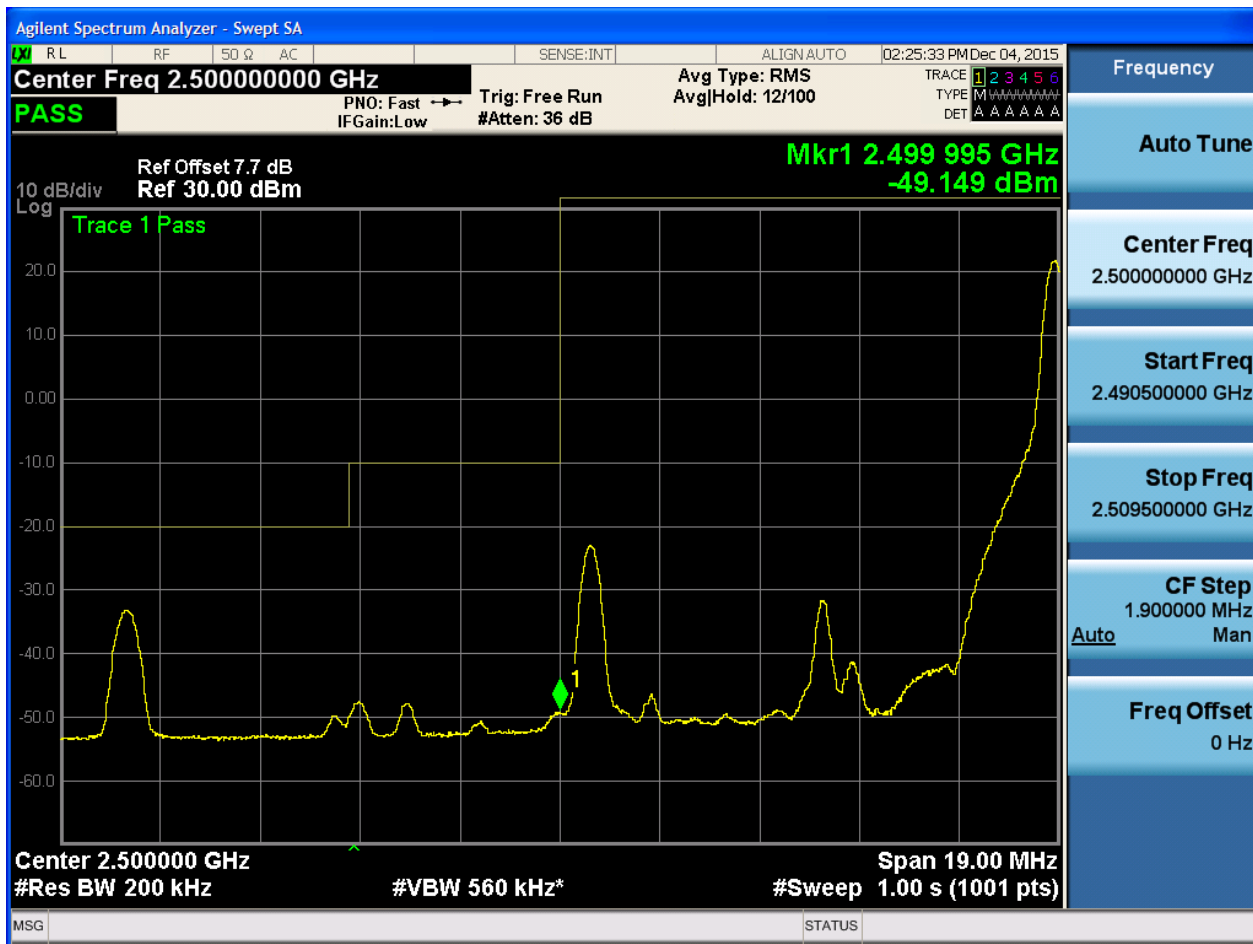
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49





5.1.1.1.2.1.3 Test RB = RB25#13



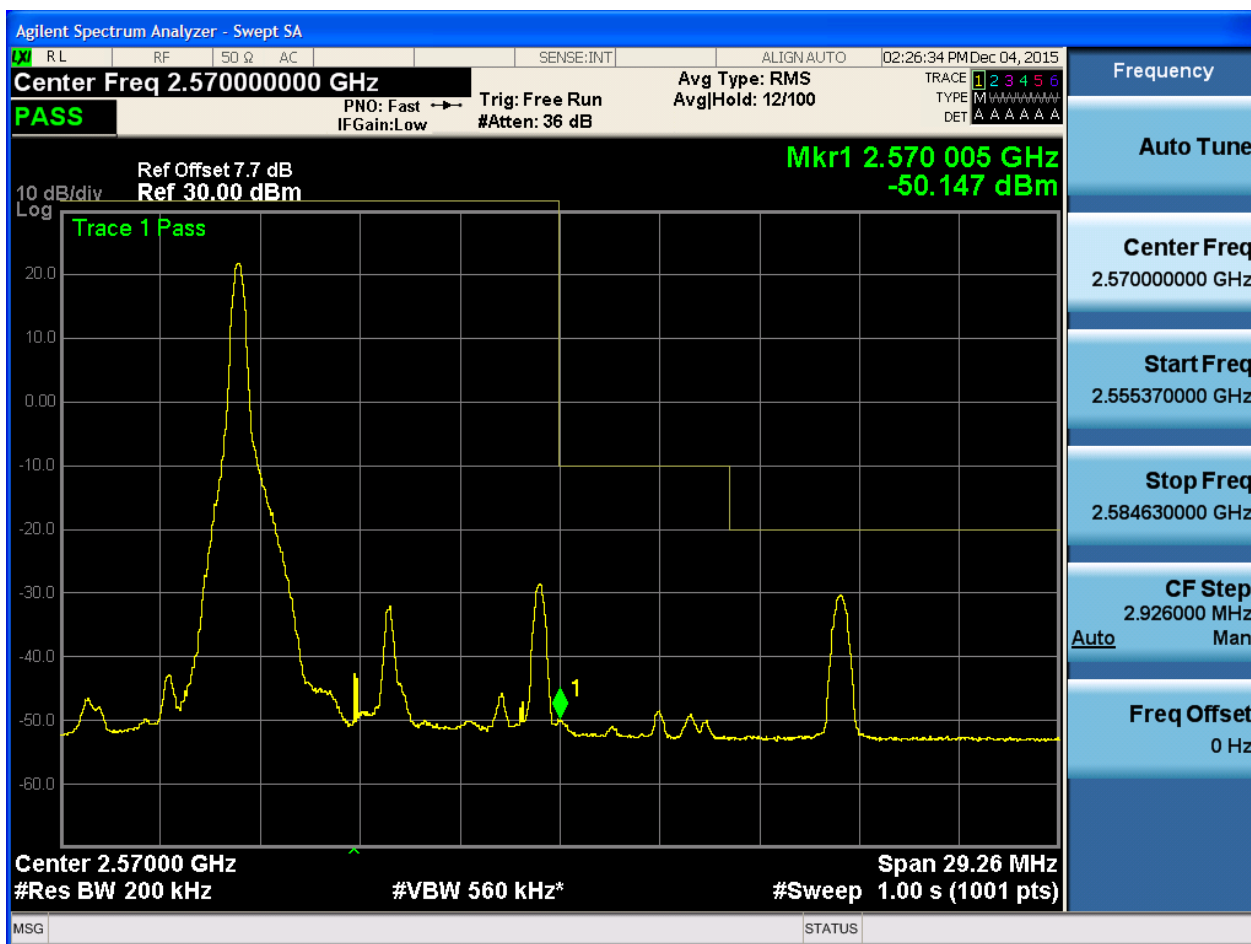


5.1.1.1.2.1.4 Test RB = RB50#0



5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-14.437 dBm

Trace 1 Pass

Center 2.57000 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.26 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.555370000 GHz

Stop Freq
2.584630000 GHz

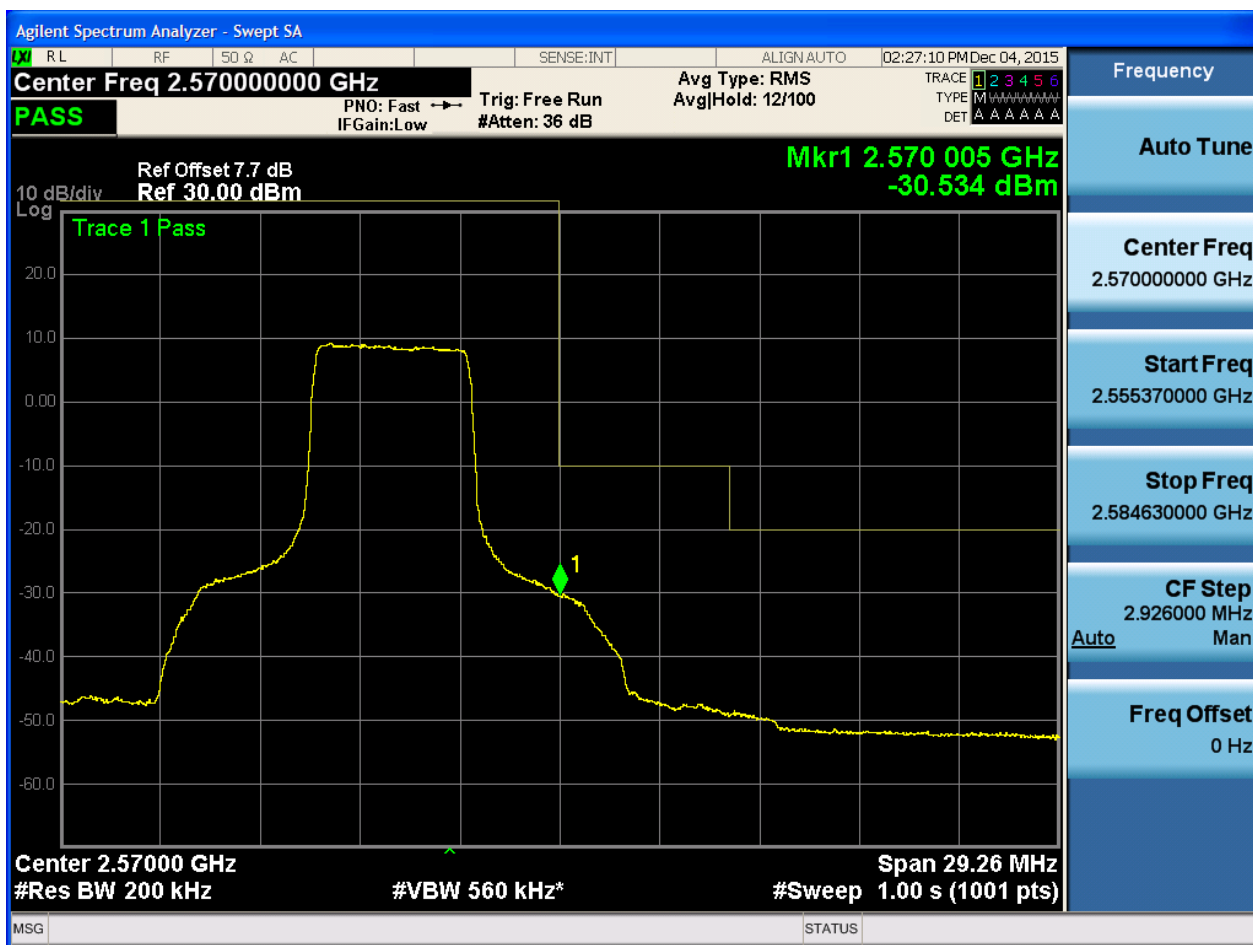
CF Step
2.926000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a swept spectrum plot with a yellow trace. The x-axis represents frequency, and the y-axis represents power in dBm. A prominent peak is visible at 2.570005 GHz, marked with a green diamond and labeled '1'. The peak power is -14.437 dBm. The center frequency is set to 2.57000000 GHz. The span is 29.26 MHz, and the resolution bandwidth (Res BW) is 200 kHz. The video bandwidth (VBW) is 560 kHz. The sweep time is 1.00 s. The reference level is 30.00 dBm, and the reference offset is 7.7 dB. The display also shows various settings like PNO: Fast, IF Gain: Low, Trig: Free Run, and #Atten: 36 dB. The status bar at the bottom shows 'MSG' and 'STATUS'.



5.1.1.1.2.2.3 Test RB = RB25#13





5.1.1.1.2.2.4 Test RB = RB50#0

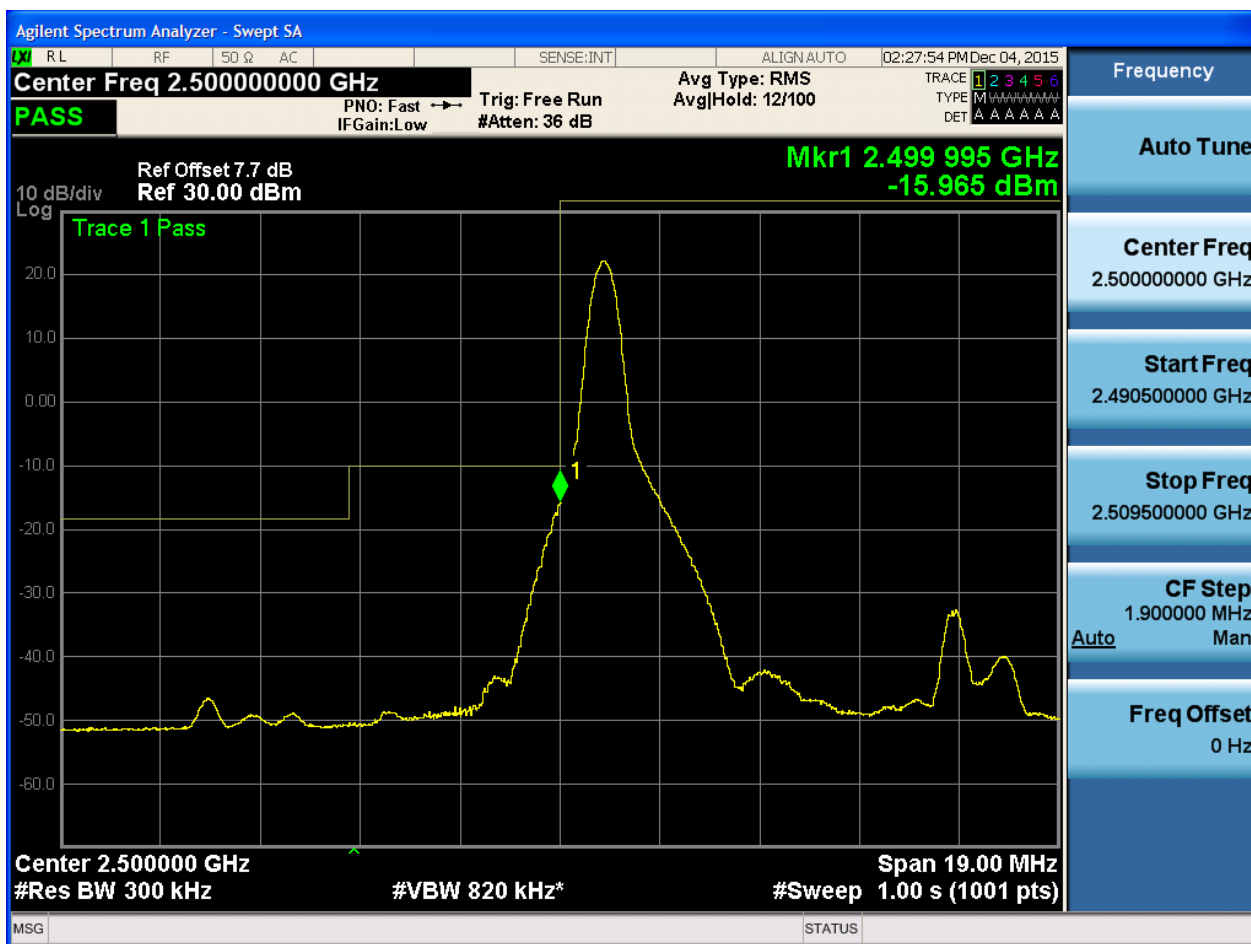




5.1.1.1.3 Test Bandwidth = 15

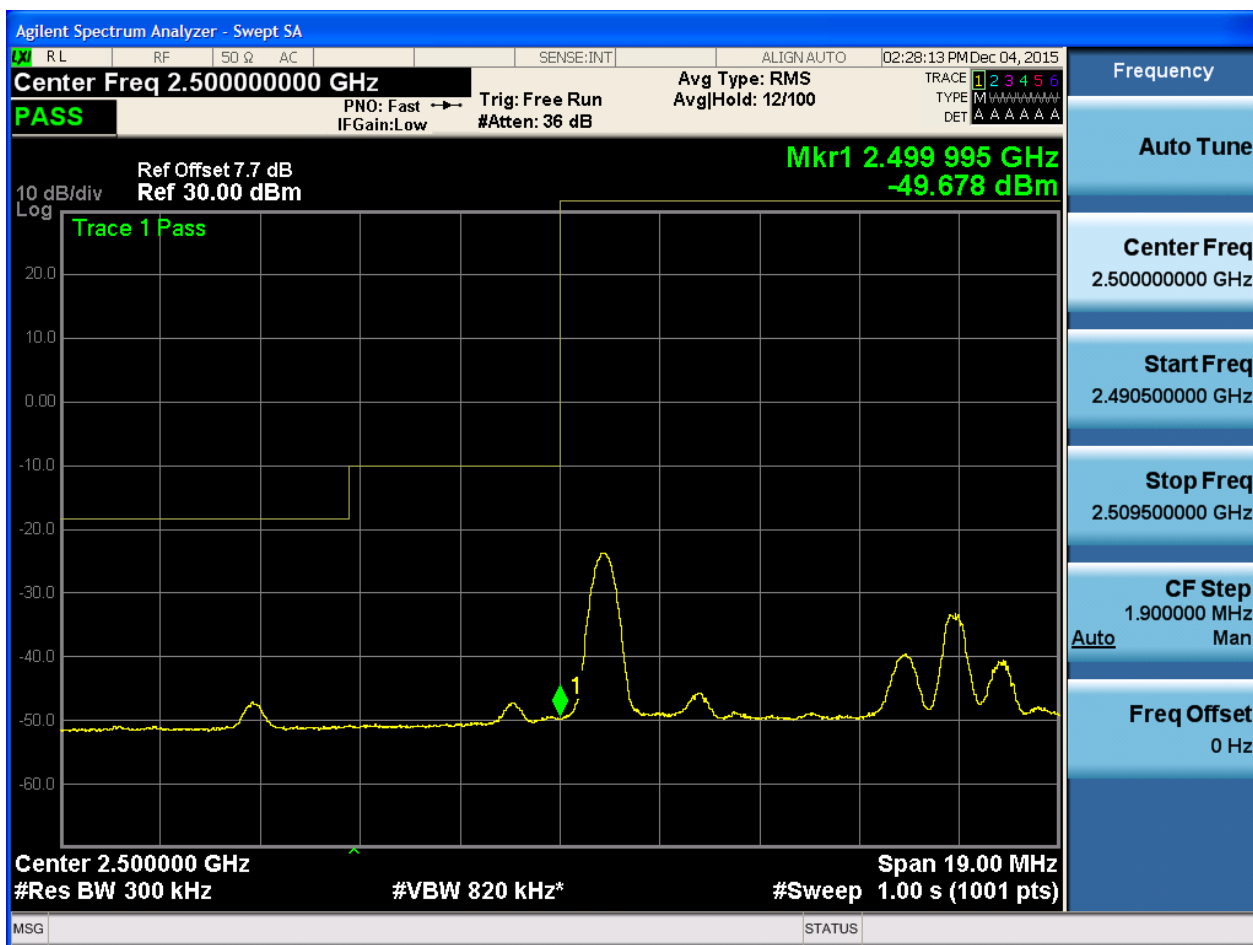
5.1.1.1.3.1 Test Channel = LCH

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



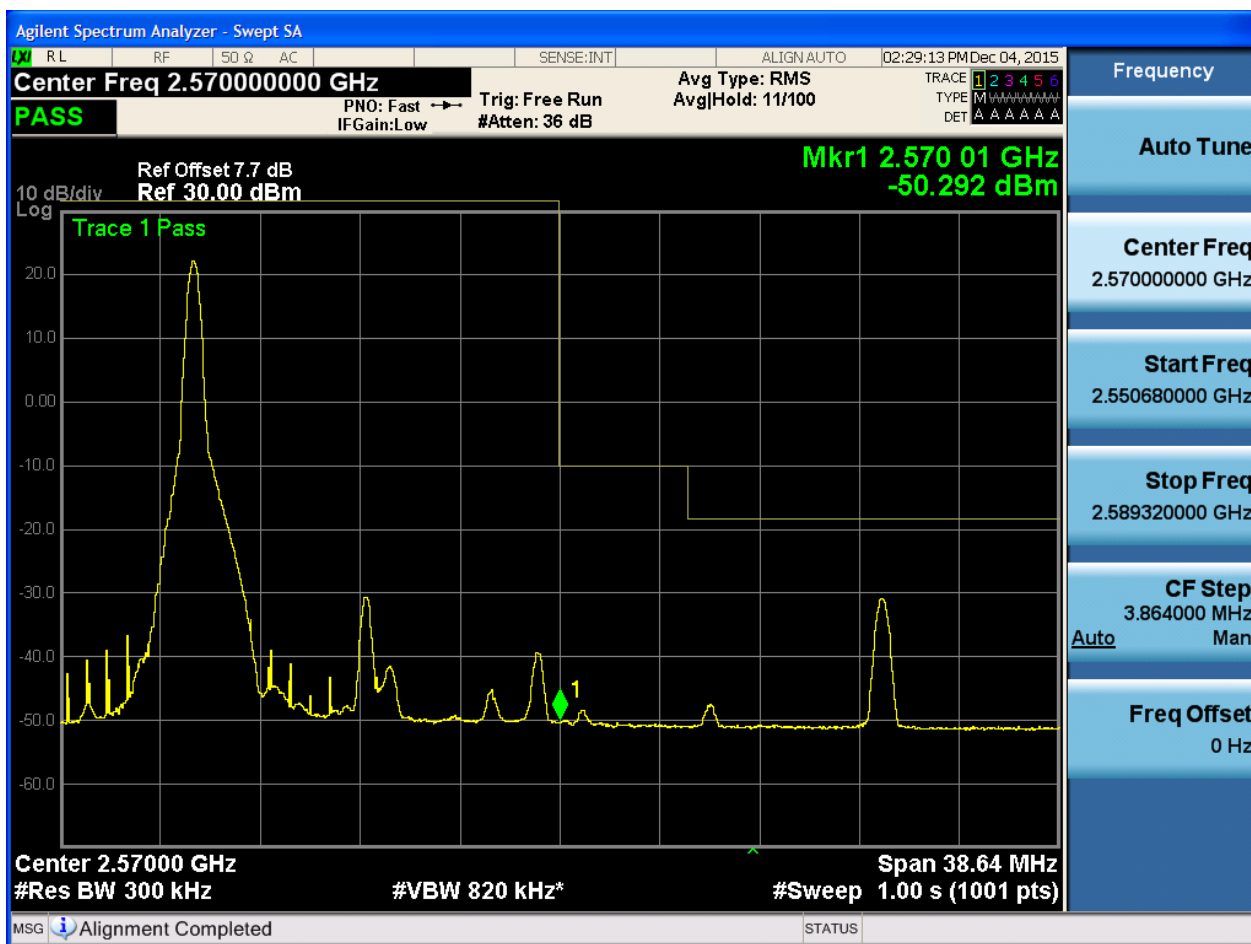


5.1.1.1.3.1.4 Test RB = RB75#0



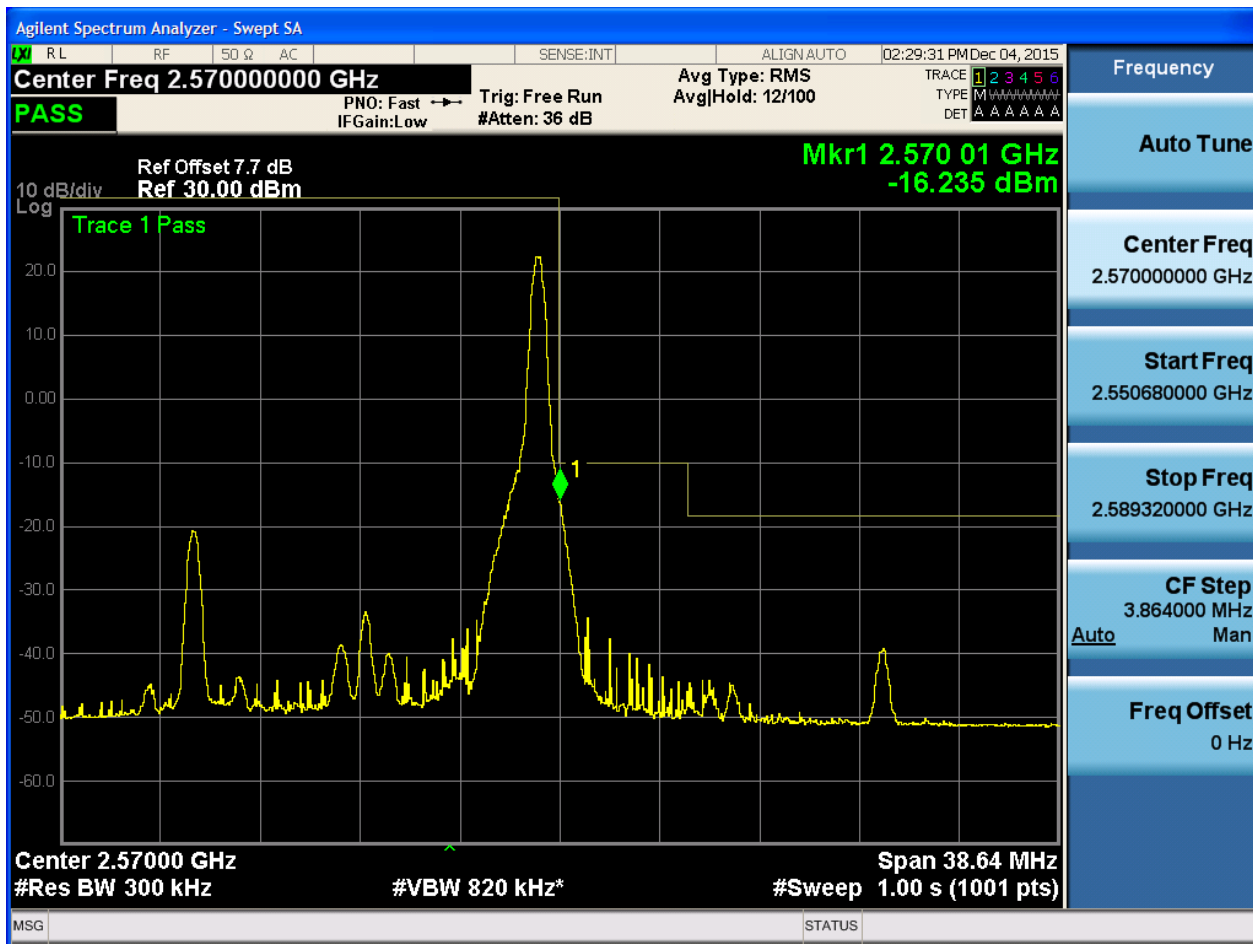


5.1.1.1.3.2.1 Test RB = RB1#0



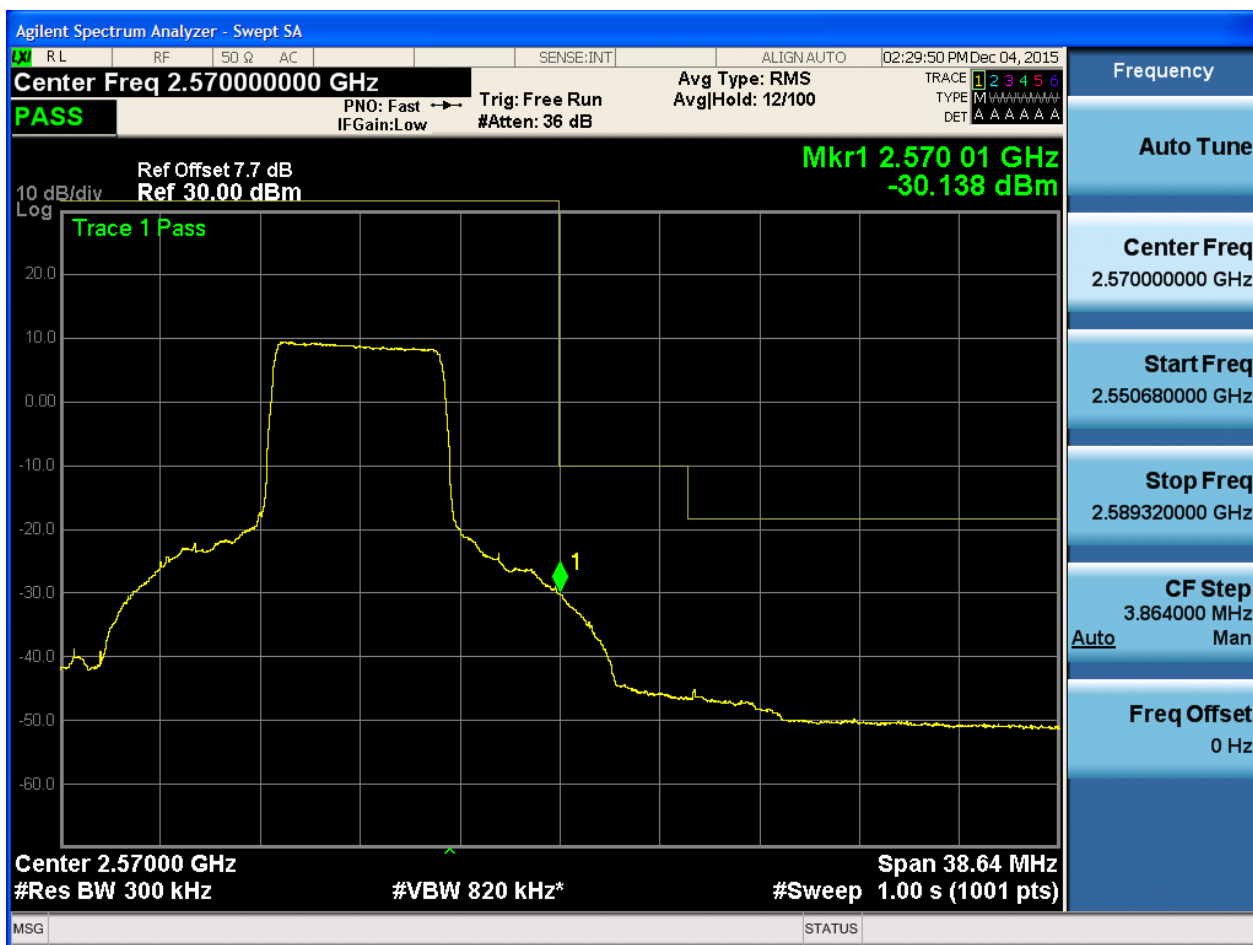


5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





5.1.1.1.3.2.4 Test RB = RB75#0

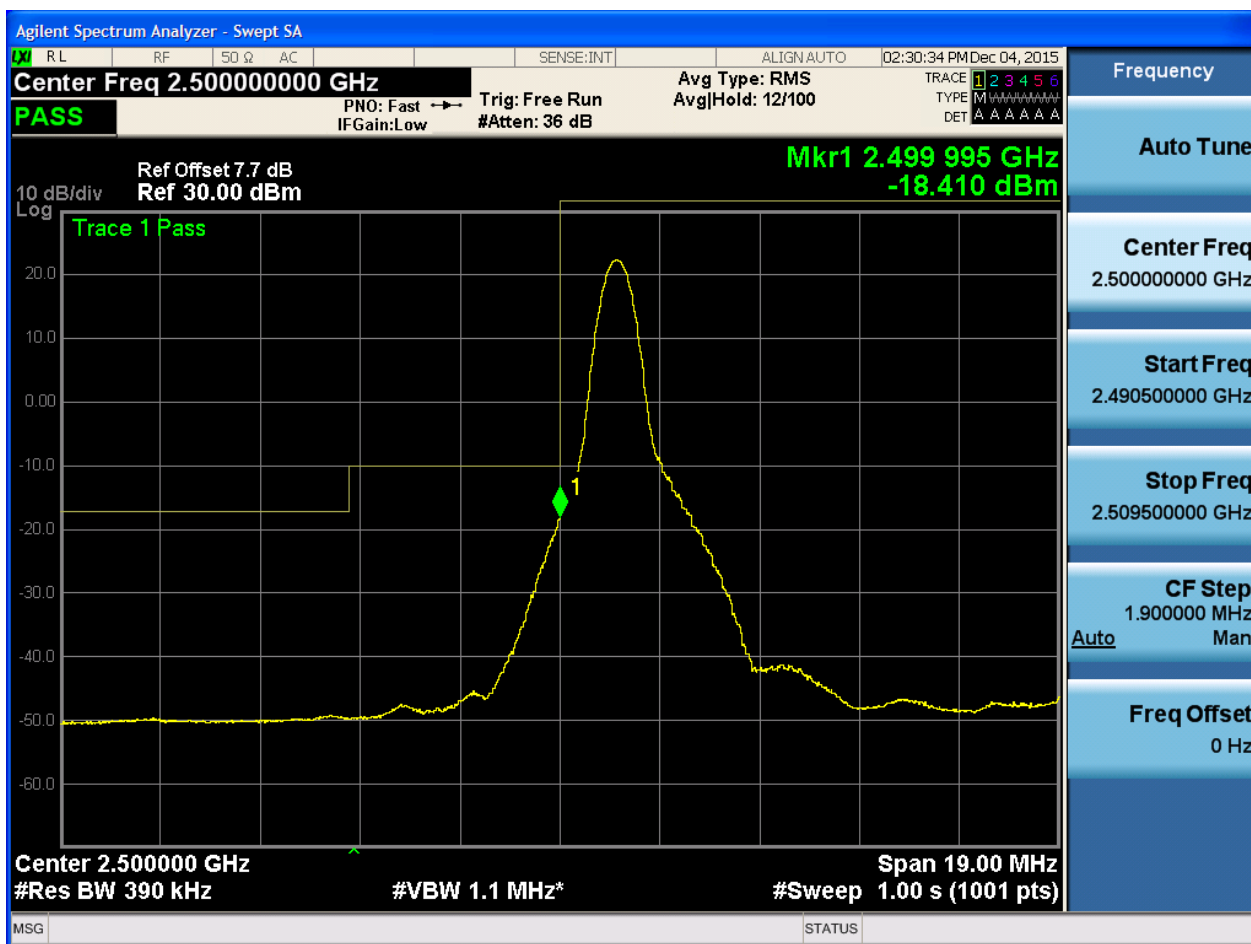




5.1.1.1.4 Test Bandwidth = 20

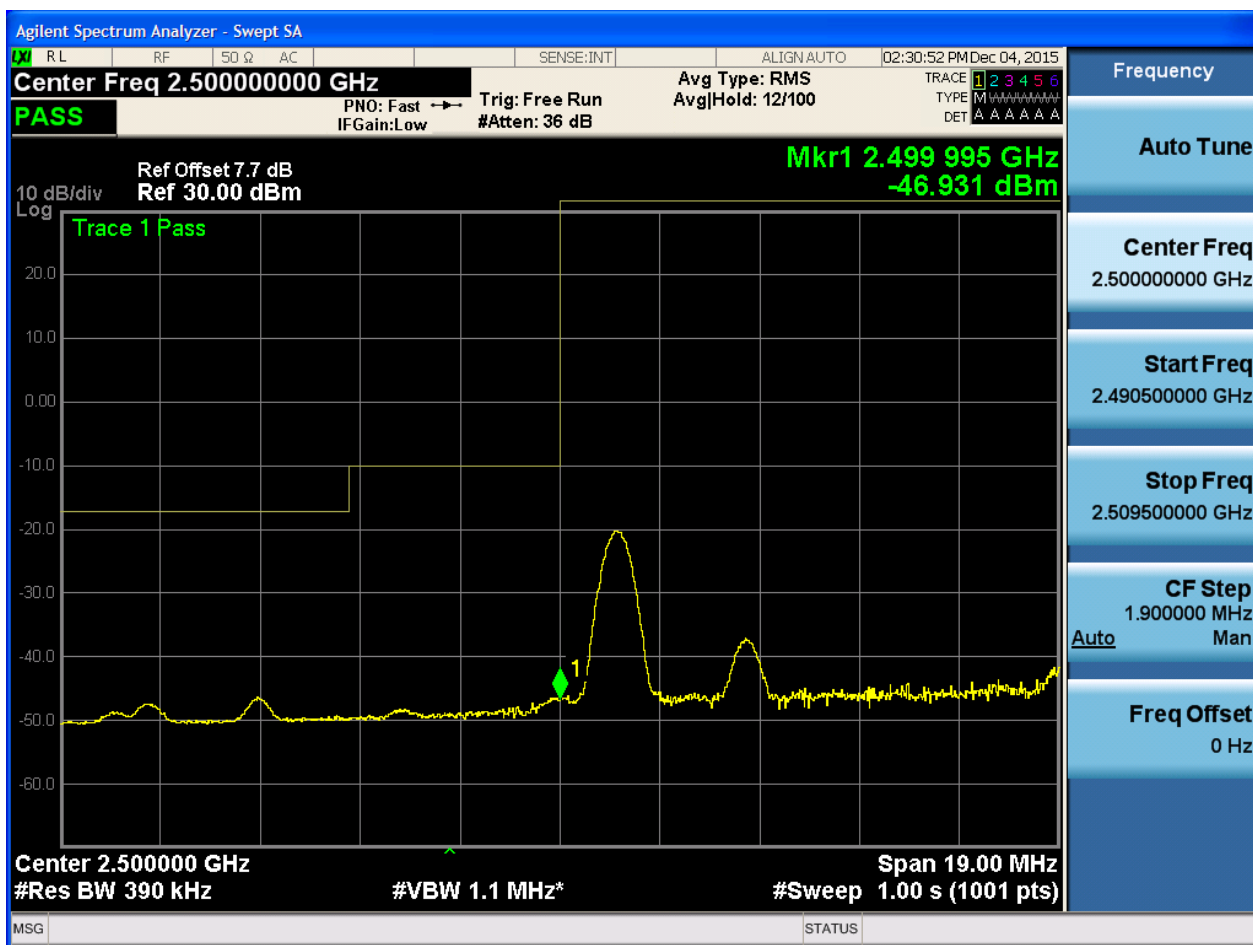
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99



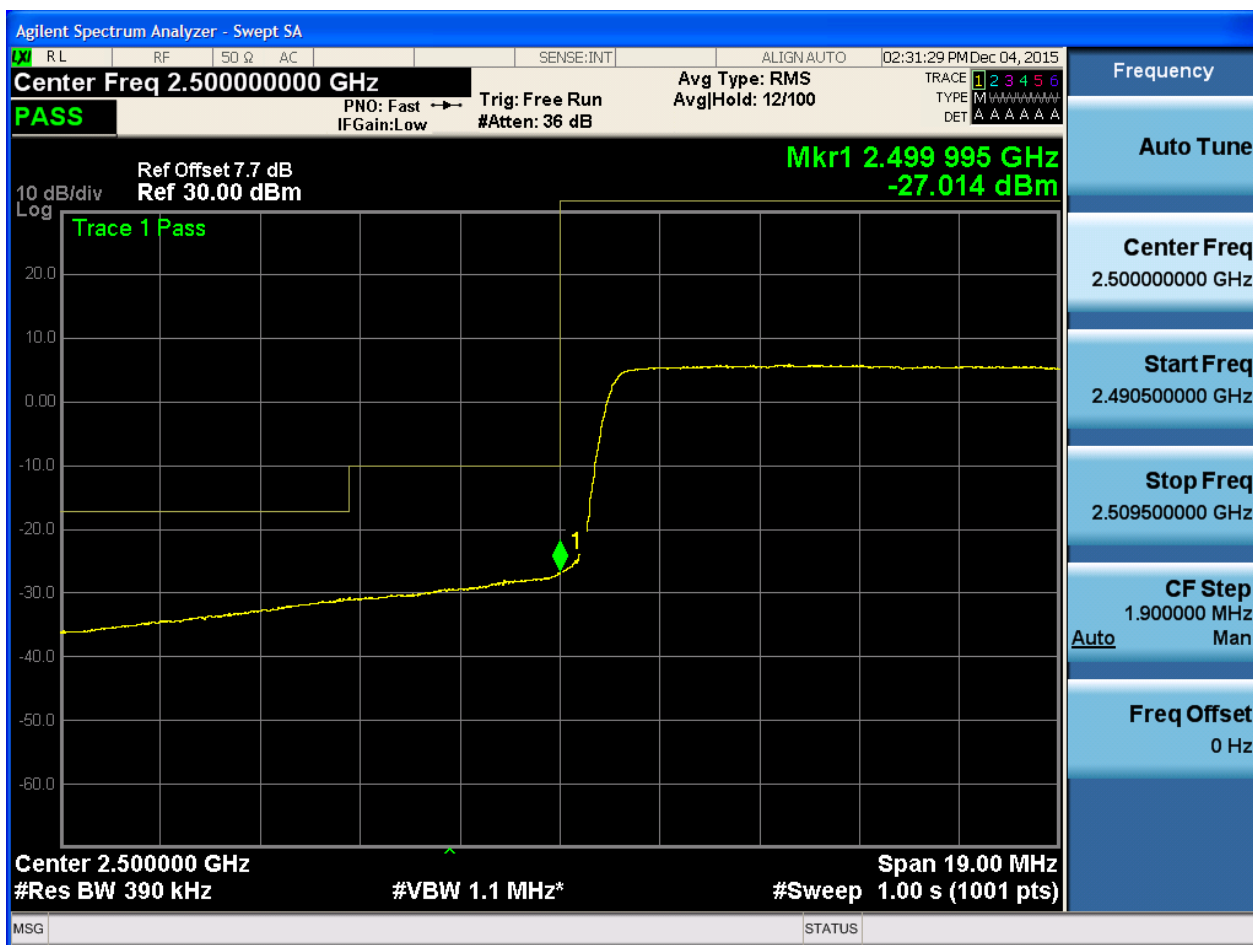


5.1.1.1.4.1.3 Test RB = RB50#25



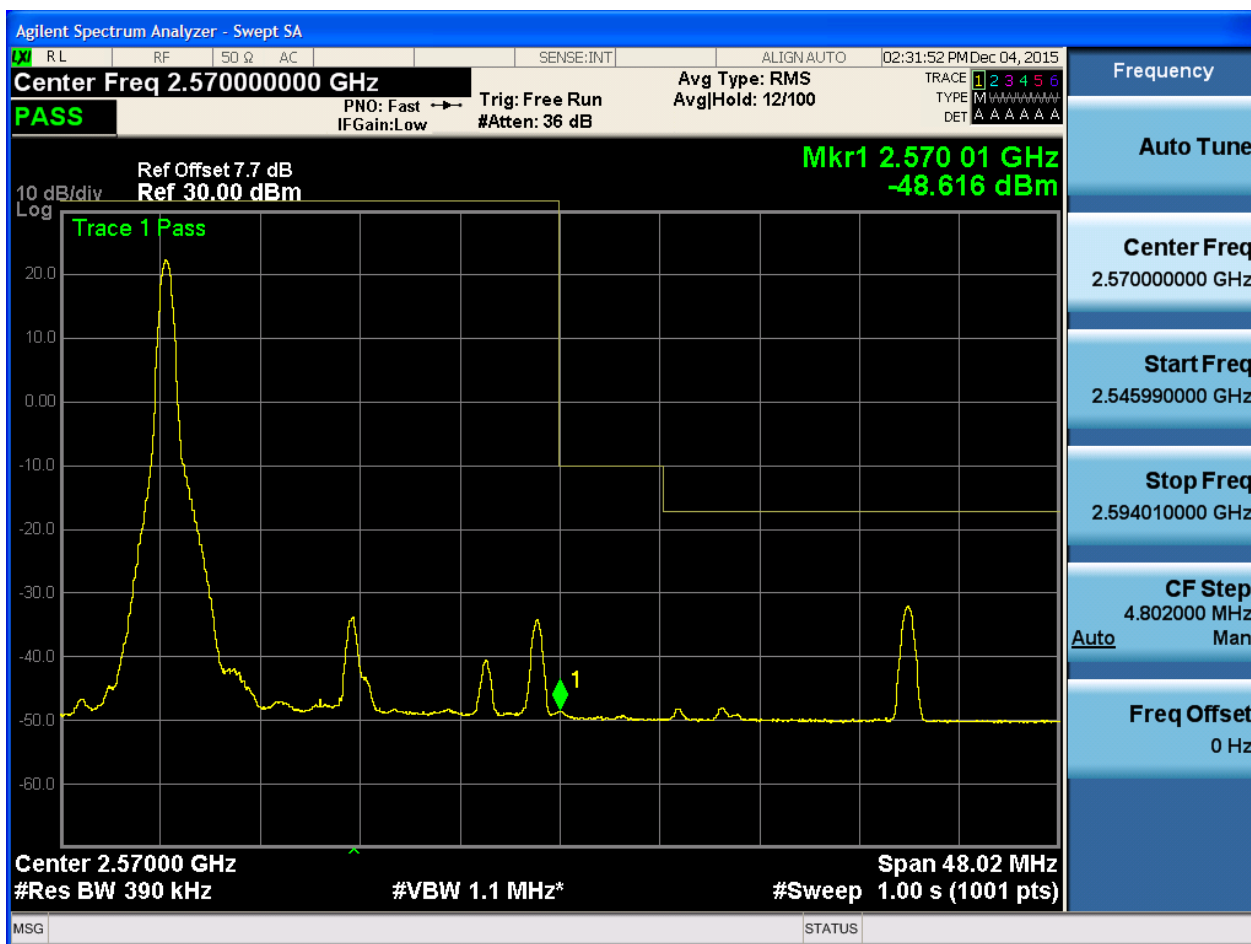


5.1.1.1.4.1.4 Test RB = RB100#0



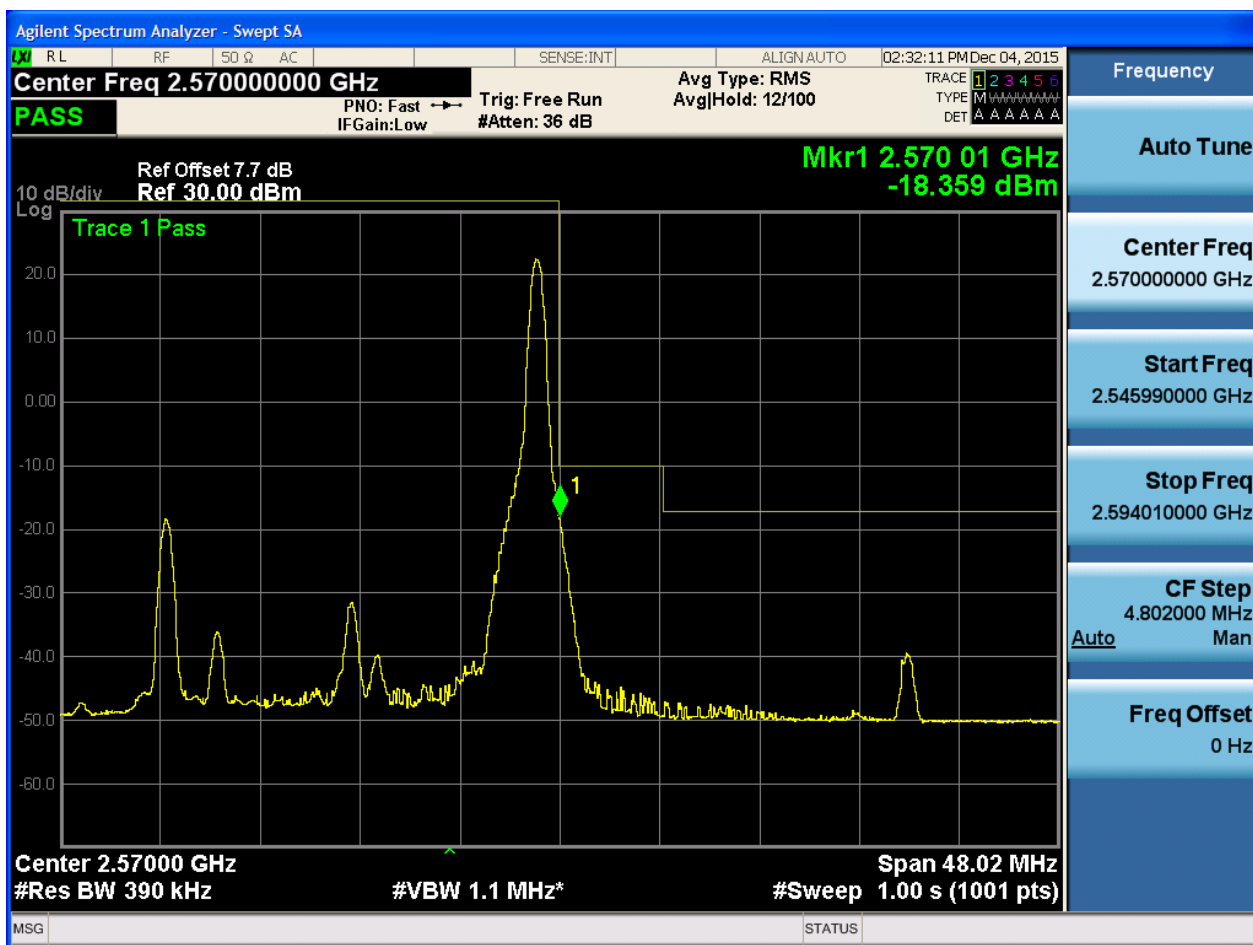
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



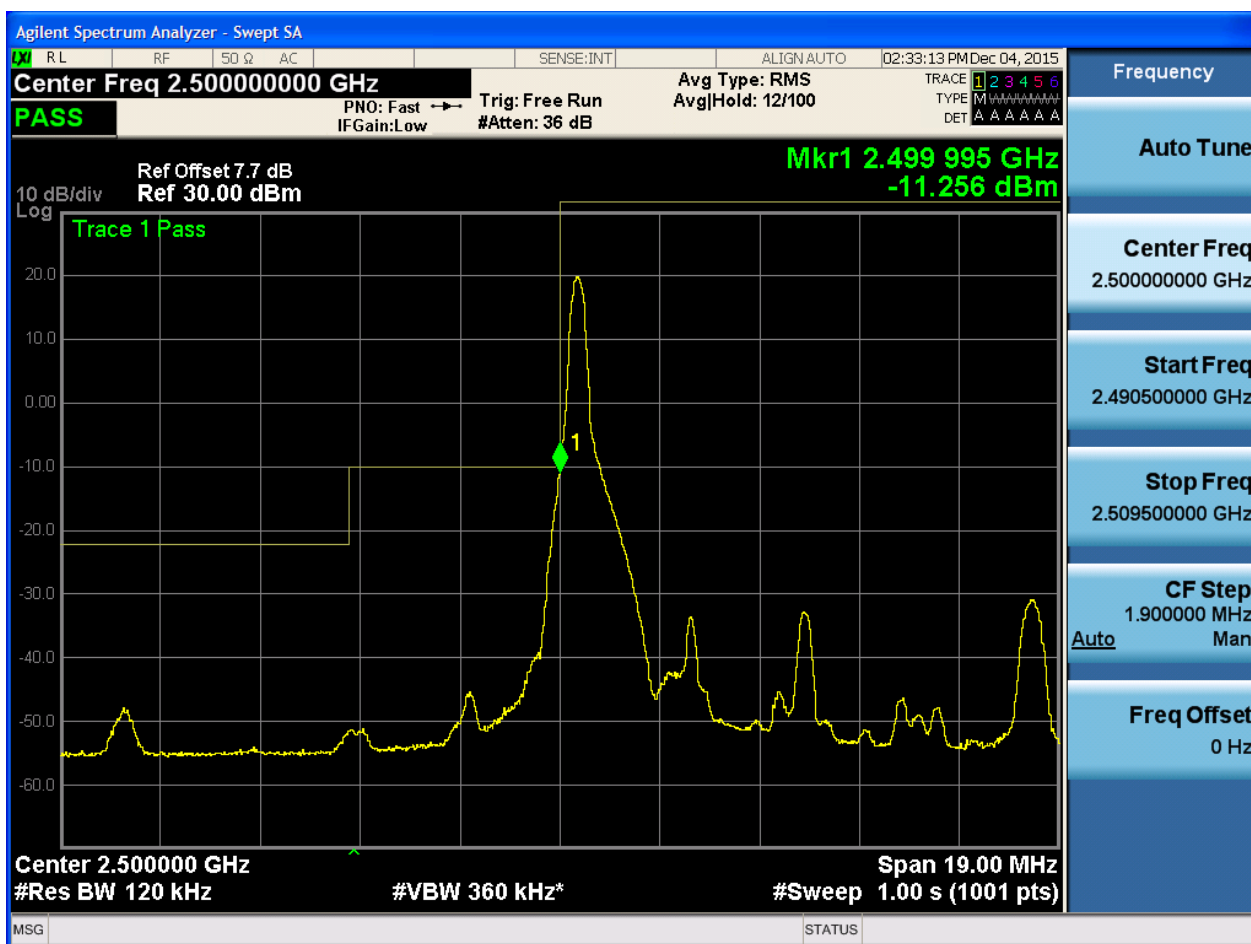


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

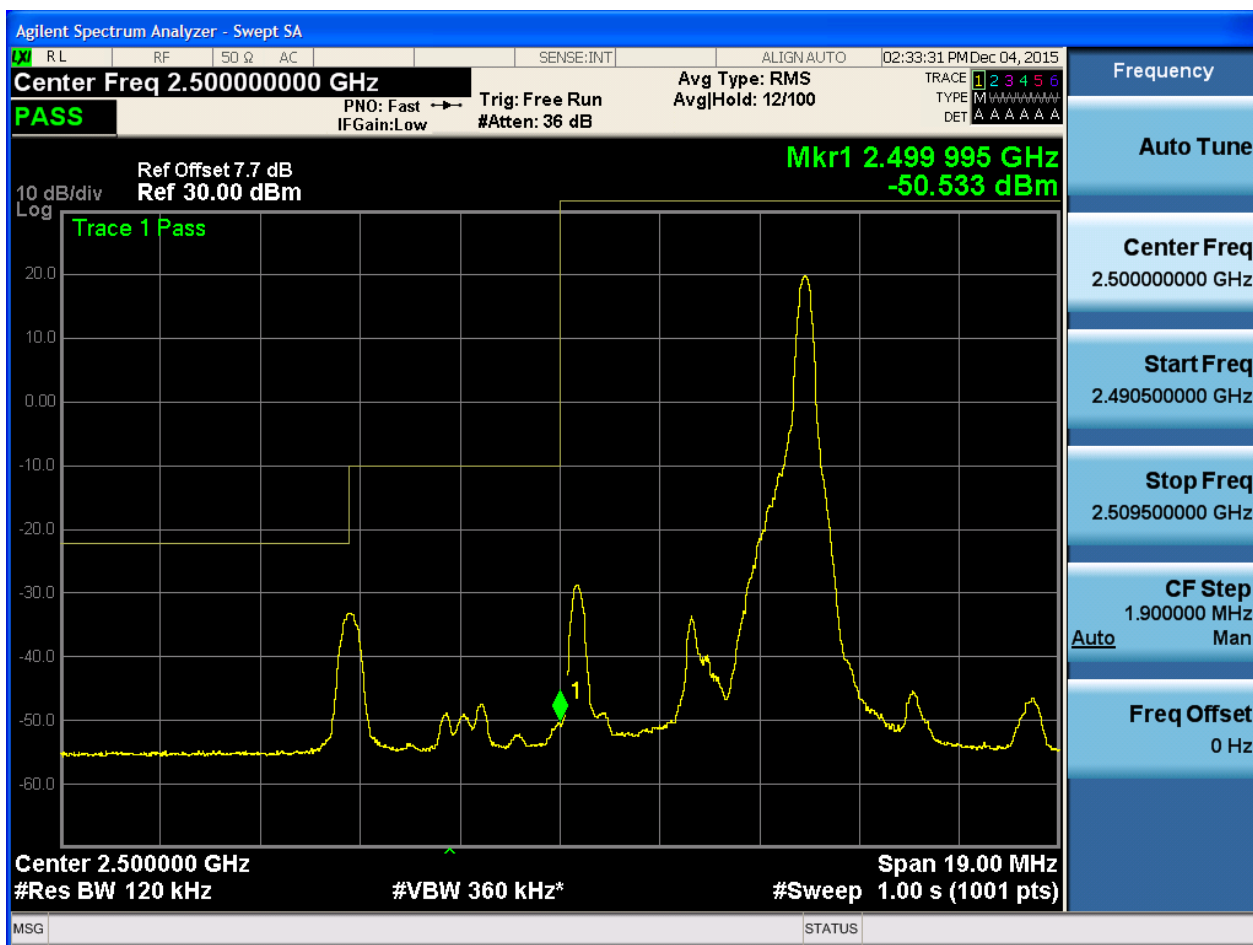
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



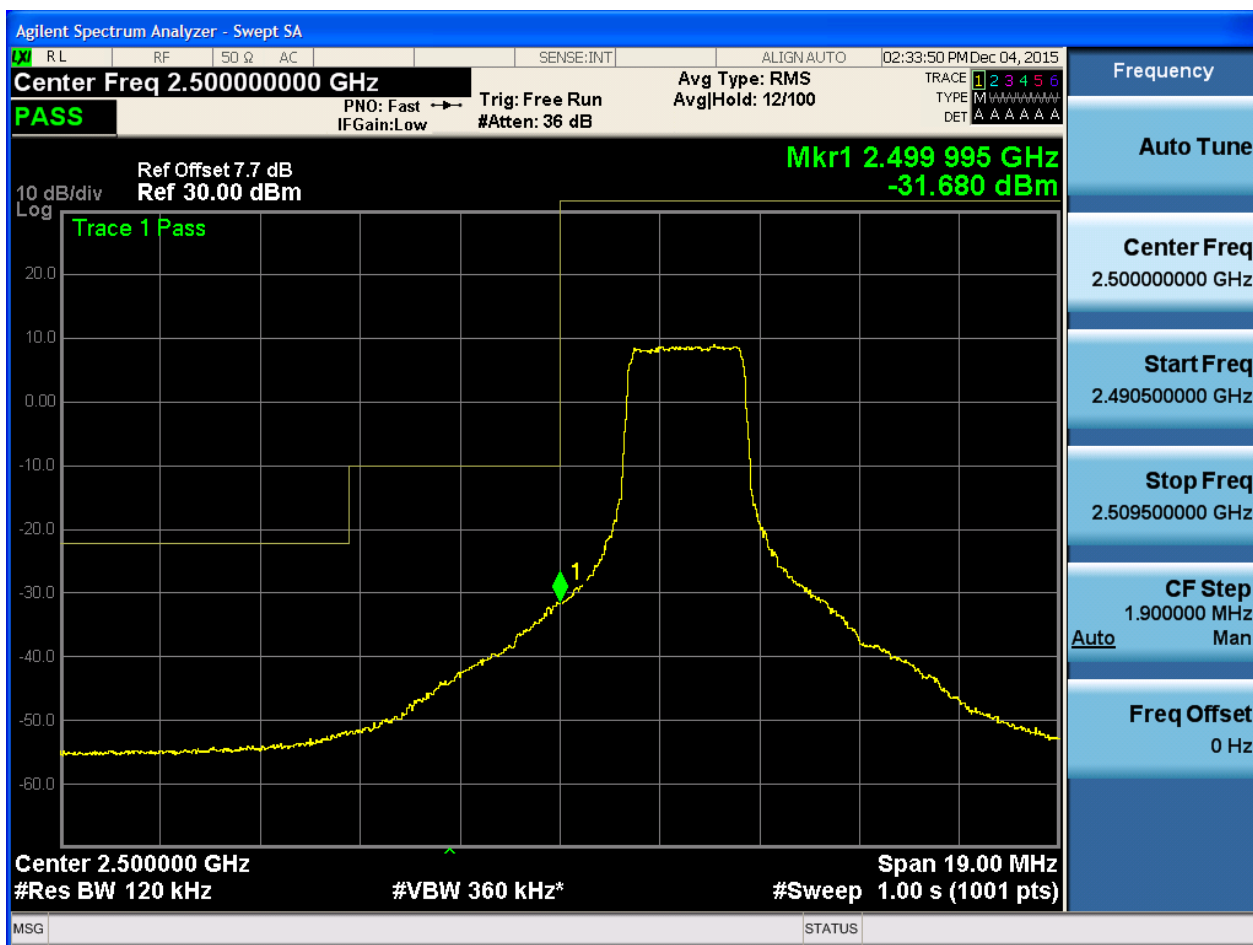


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6



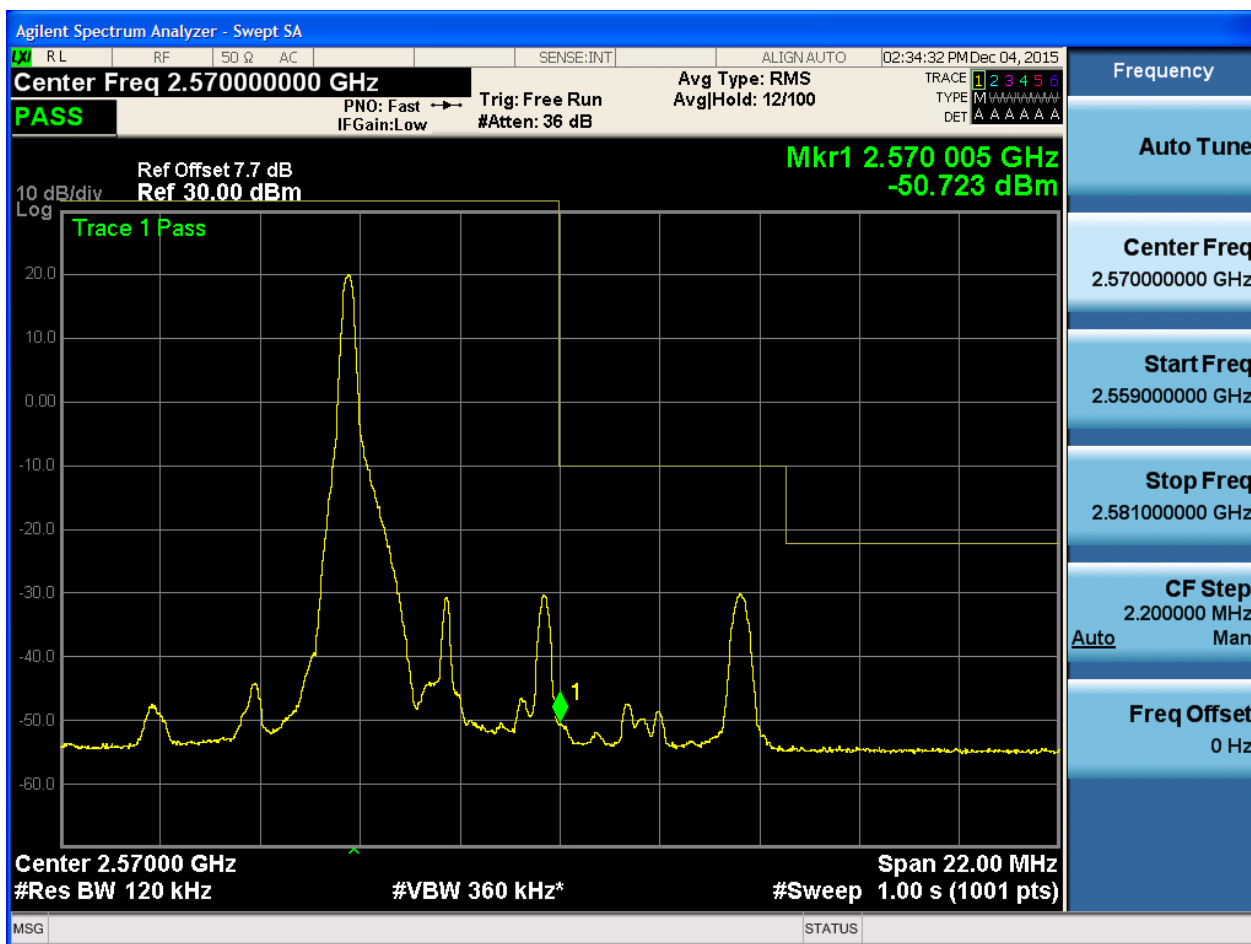


5.1.1.2.1.1.4 Test RB = RB25#0



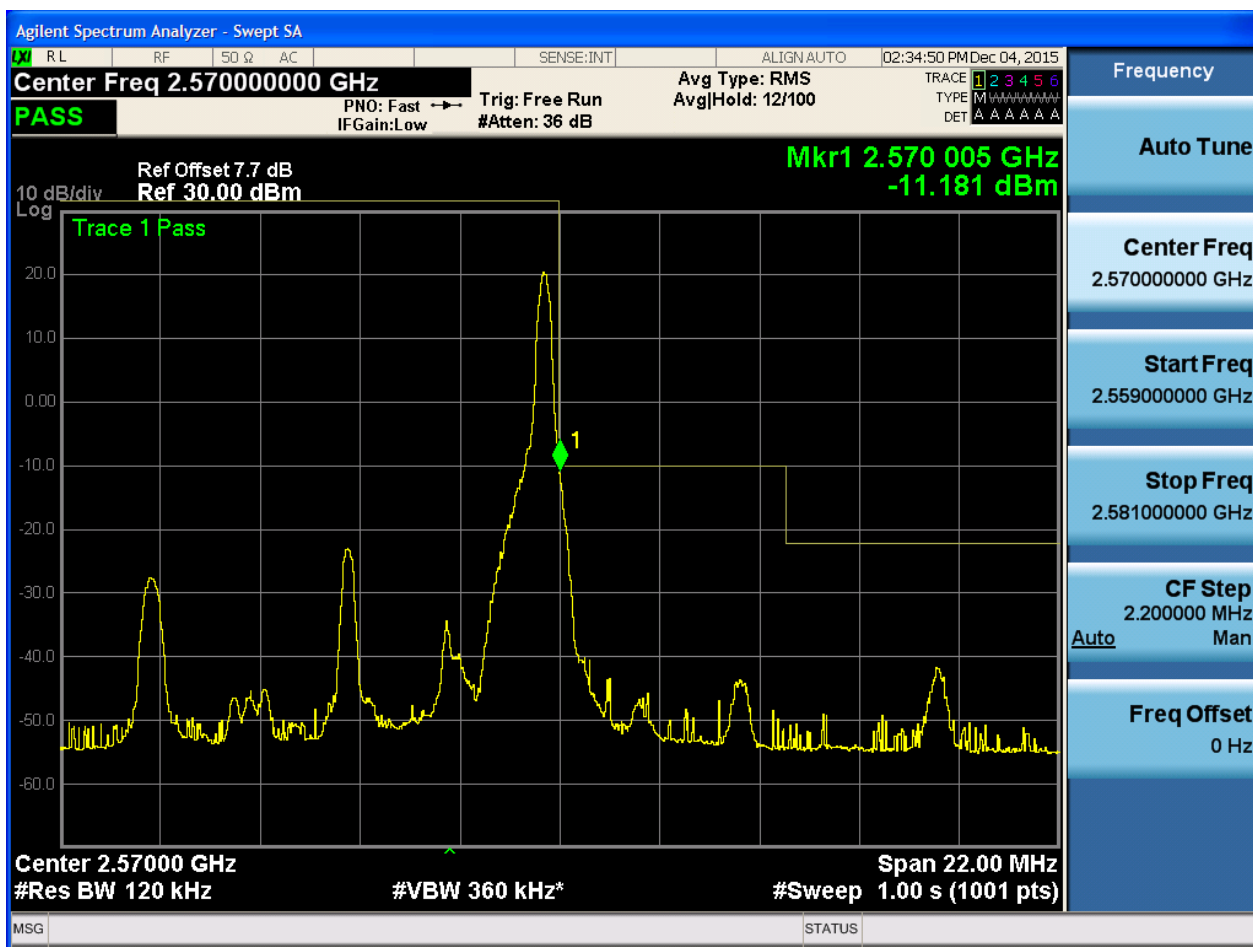
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



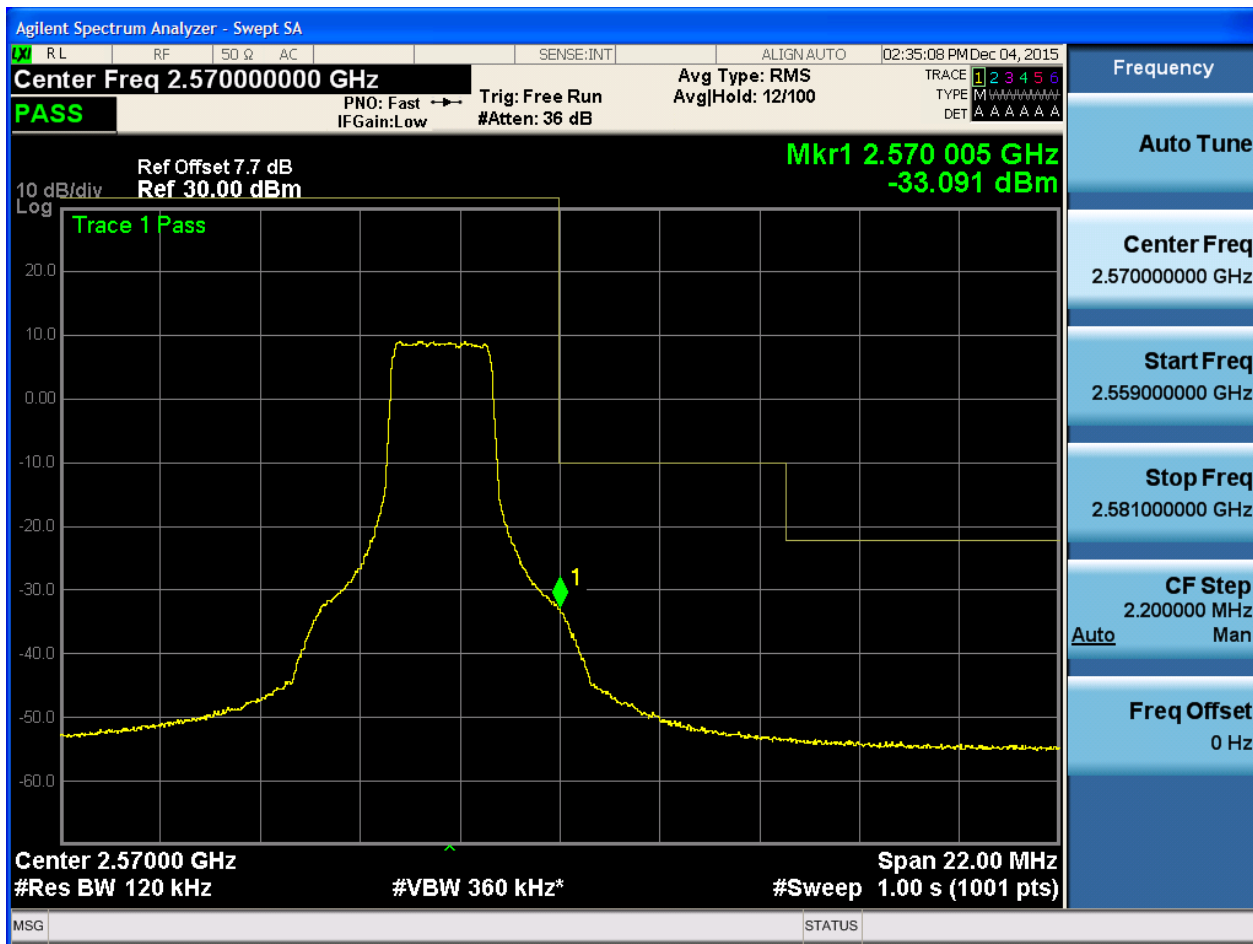


5.1.1.2.1.2.2 Test RB = RB1#24



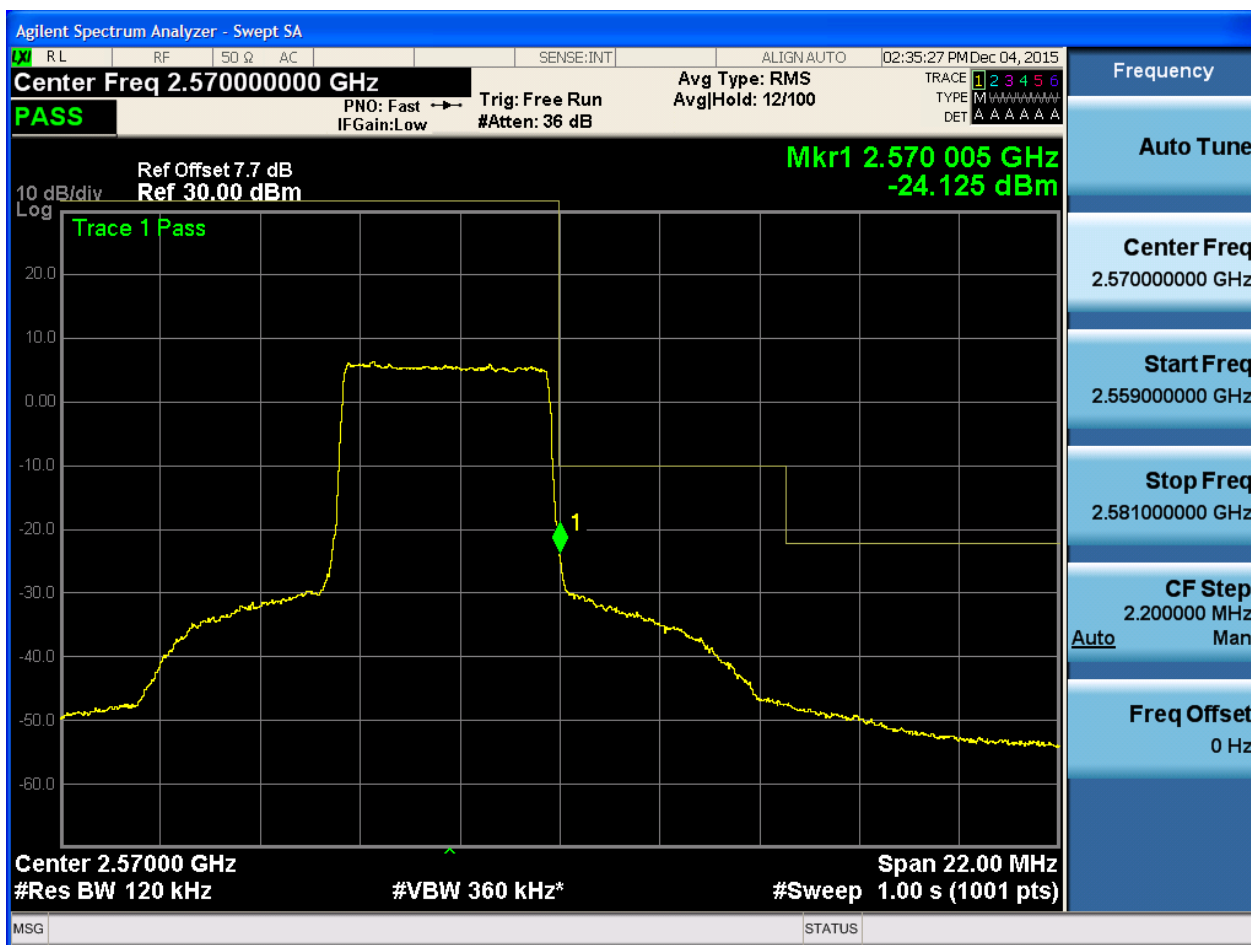


5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

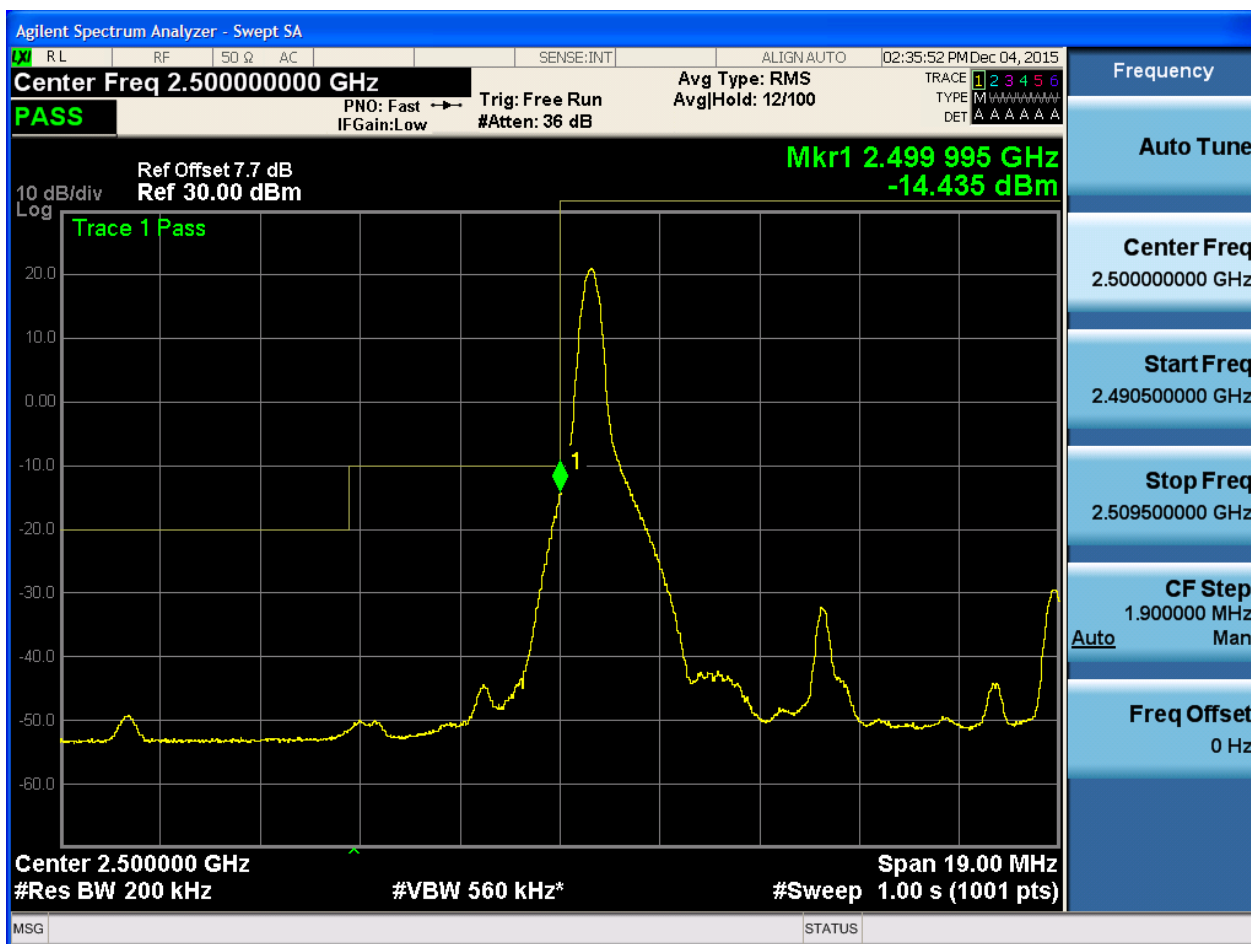




5.1.1.2.2 Test Bandwidth = 10

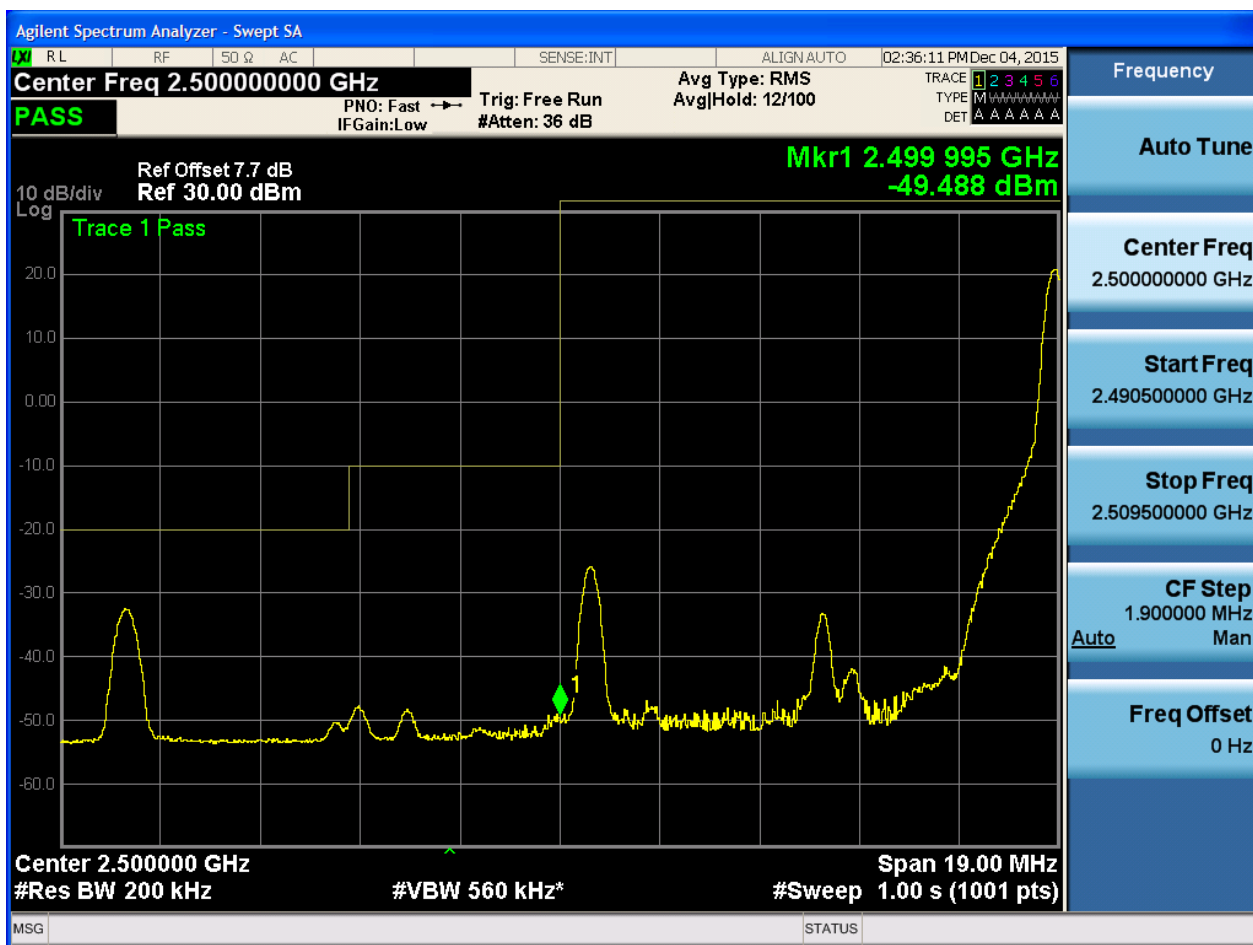
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0



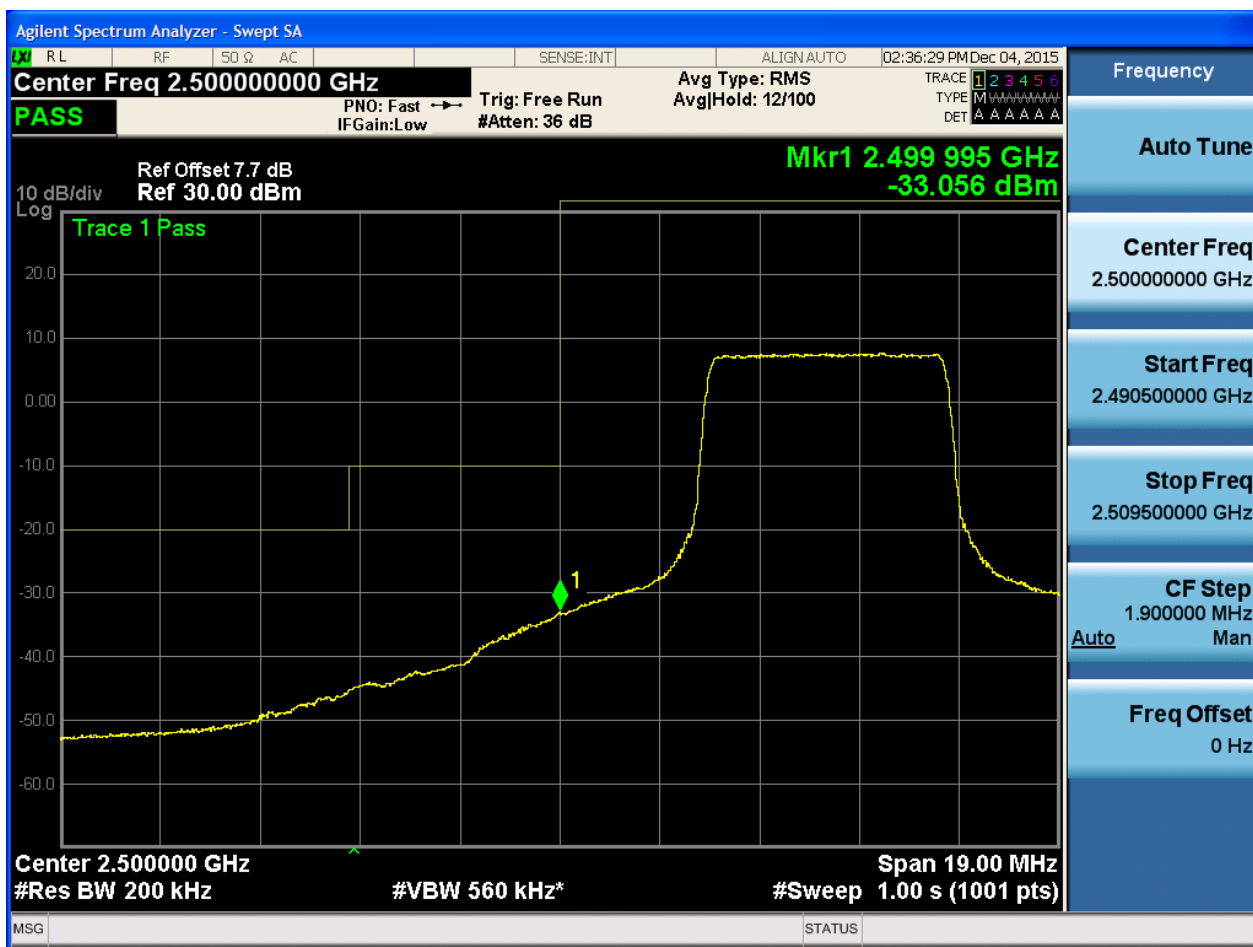


5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13



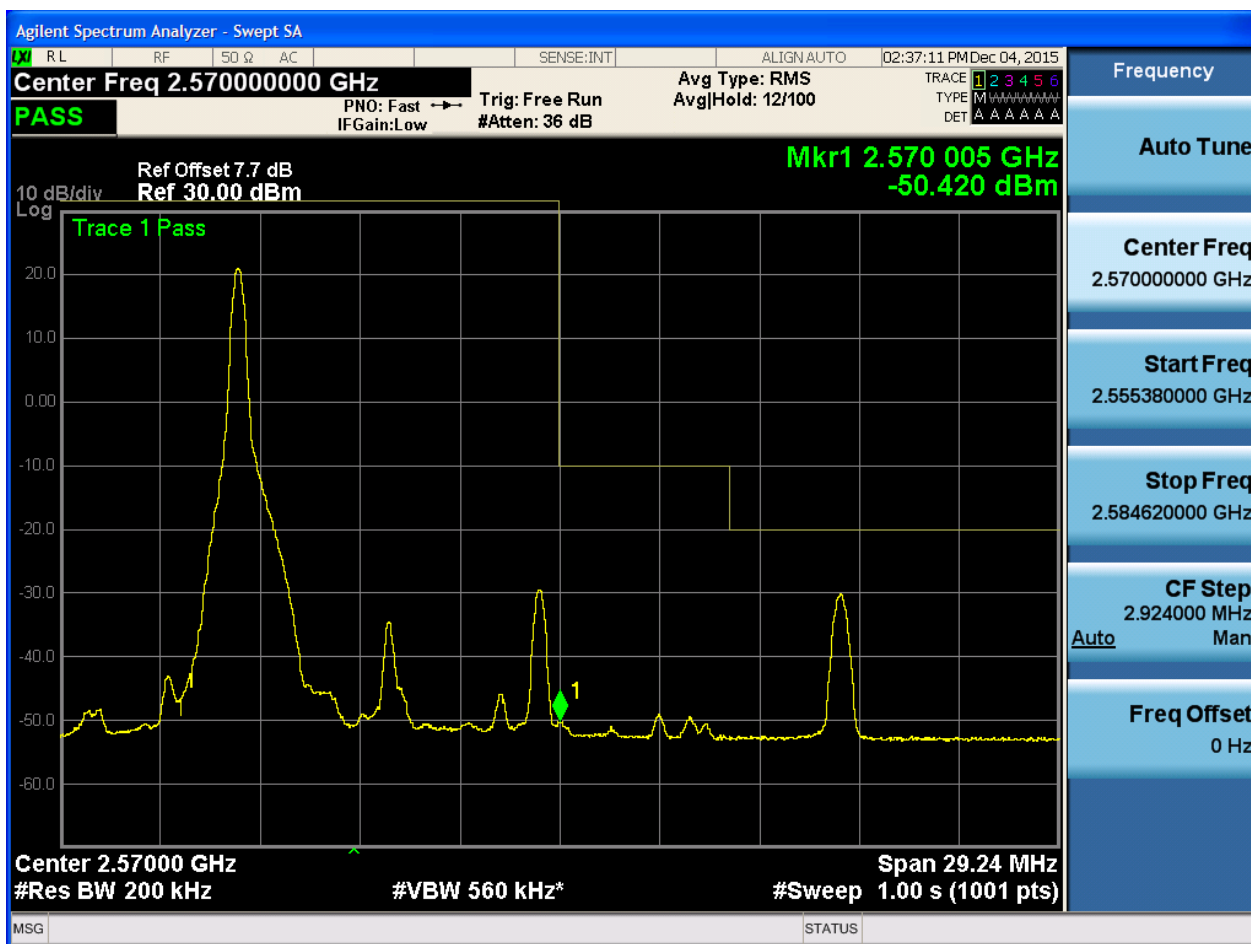


5.1.1.2.2.1.4 Test RB = RB50#0



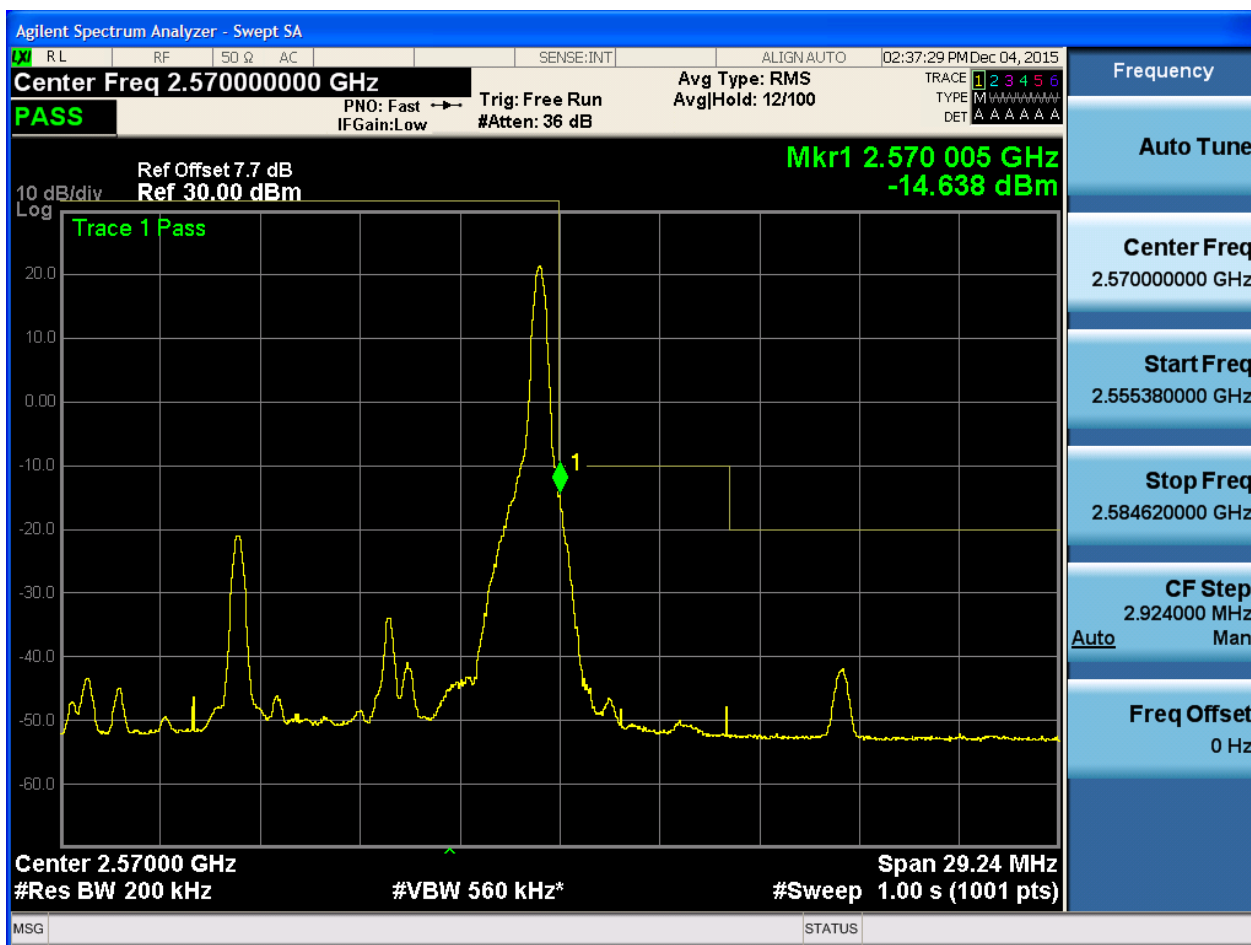
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



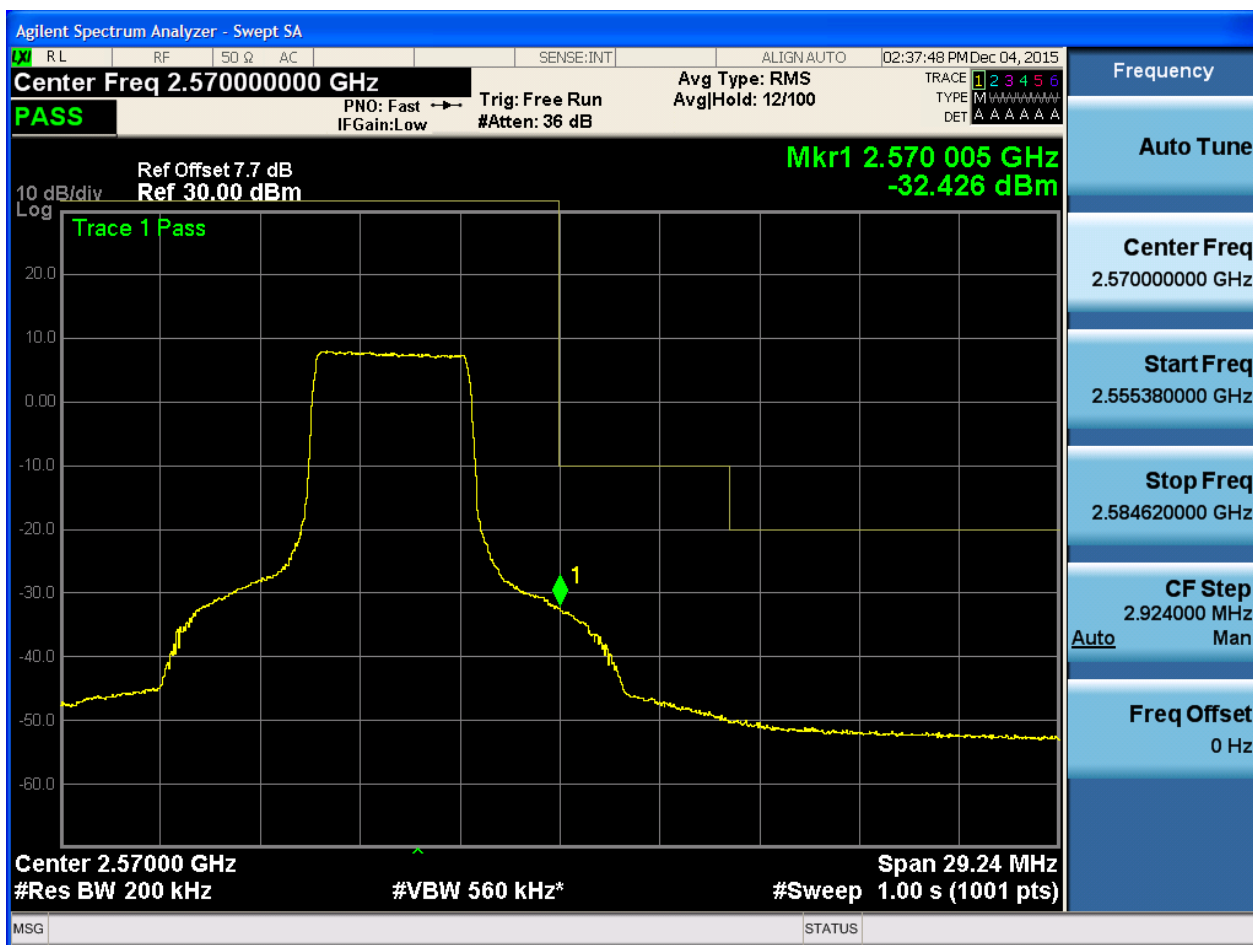


5.1.1.2.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





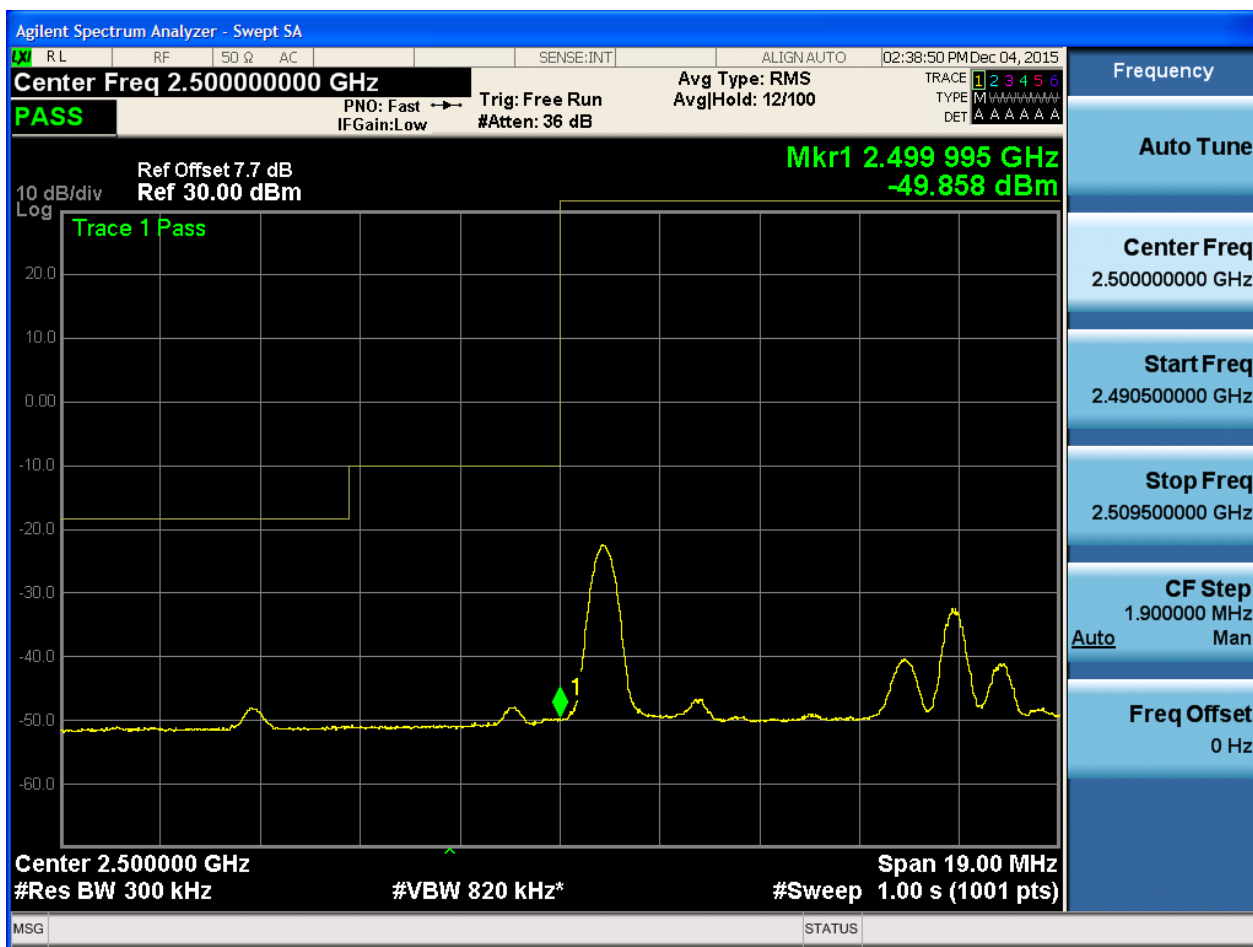
5.1.1.2.2.4 Test RB = RB50#0





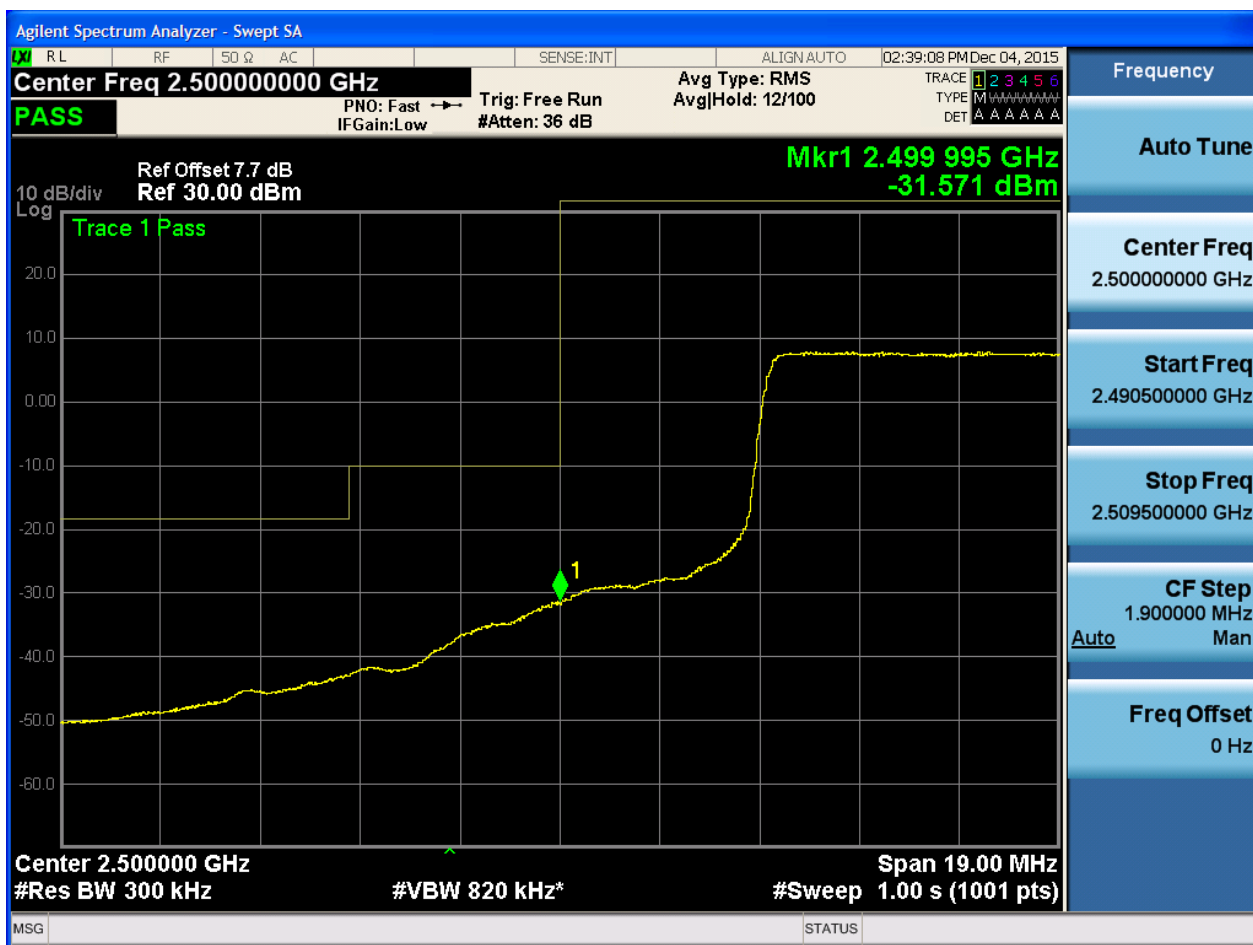


5.1.1.2.3.1.2 Test RB = RB1#74





5.1.1.2.3.1.3 Test RB = RB36#18



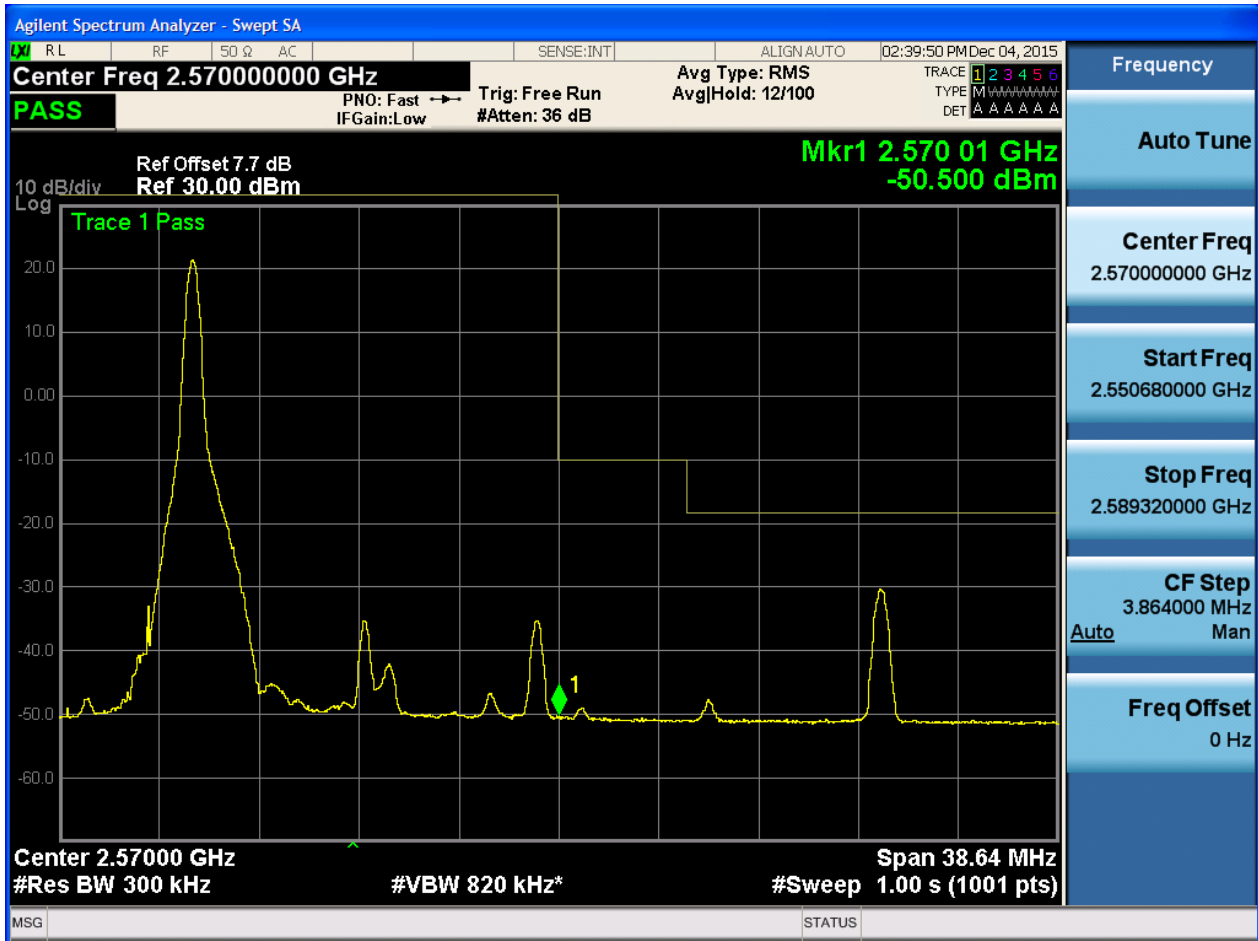


5.1.1.2.3.1.4 Test RB = RB75#0



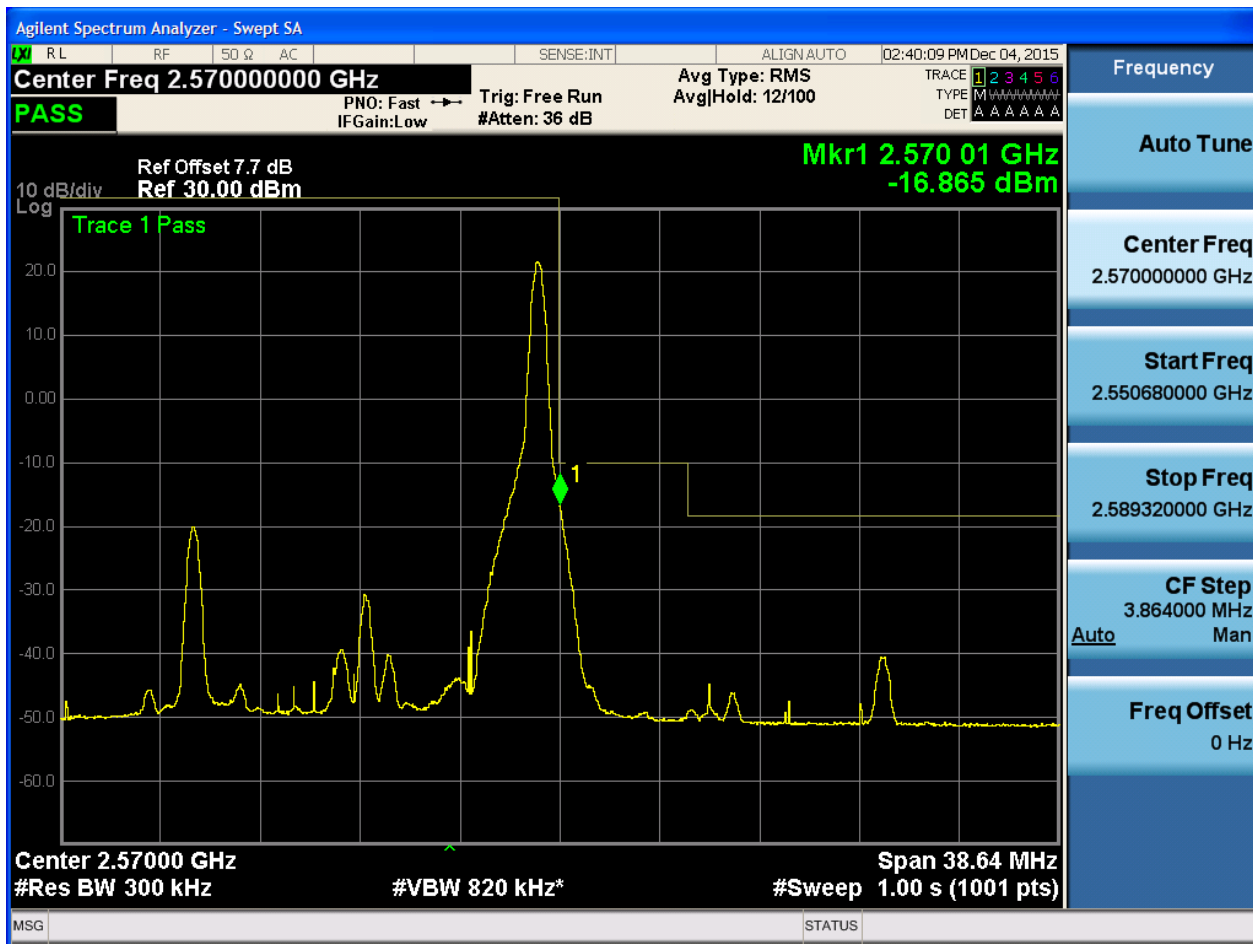


5.1.1.2.3.2.1 Test RB = RB1#0



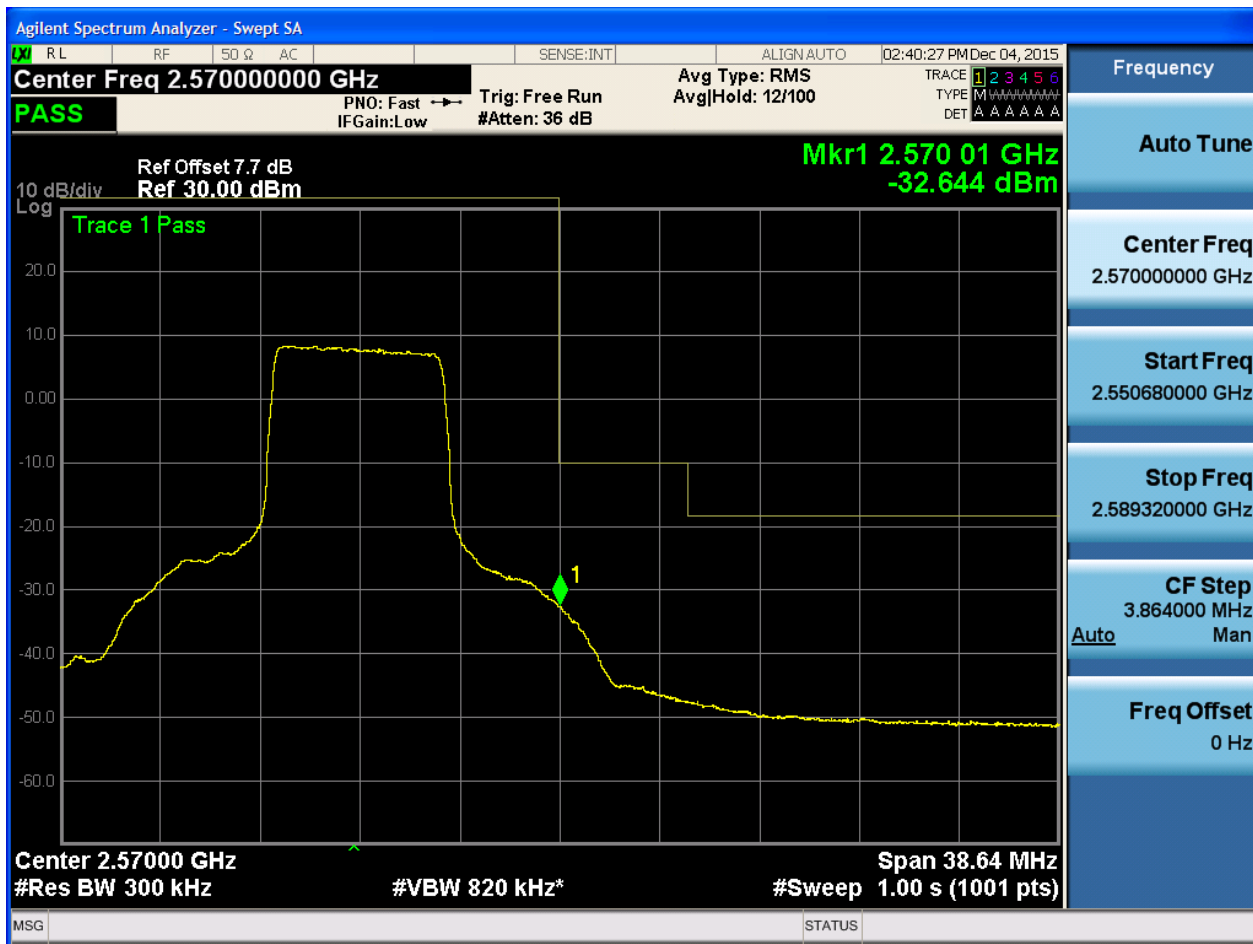


5.1.1.2.3.2.2 Test RB = RB1#74





5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

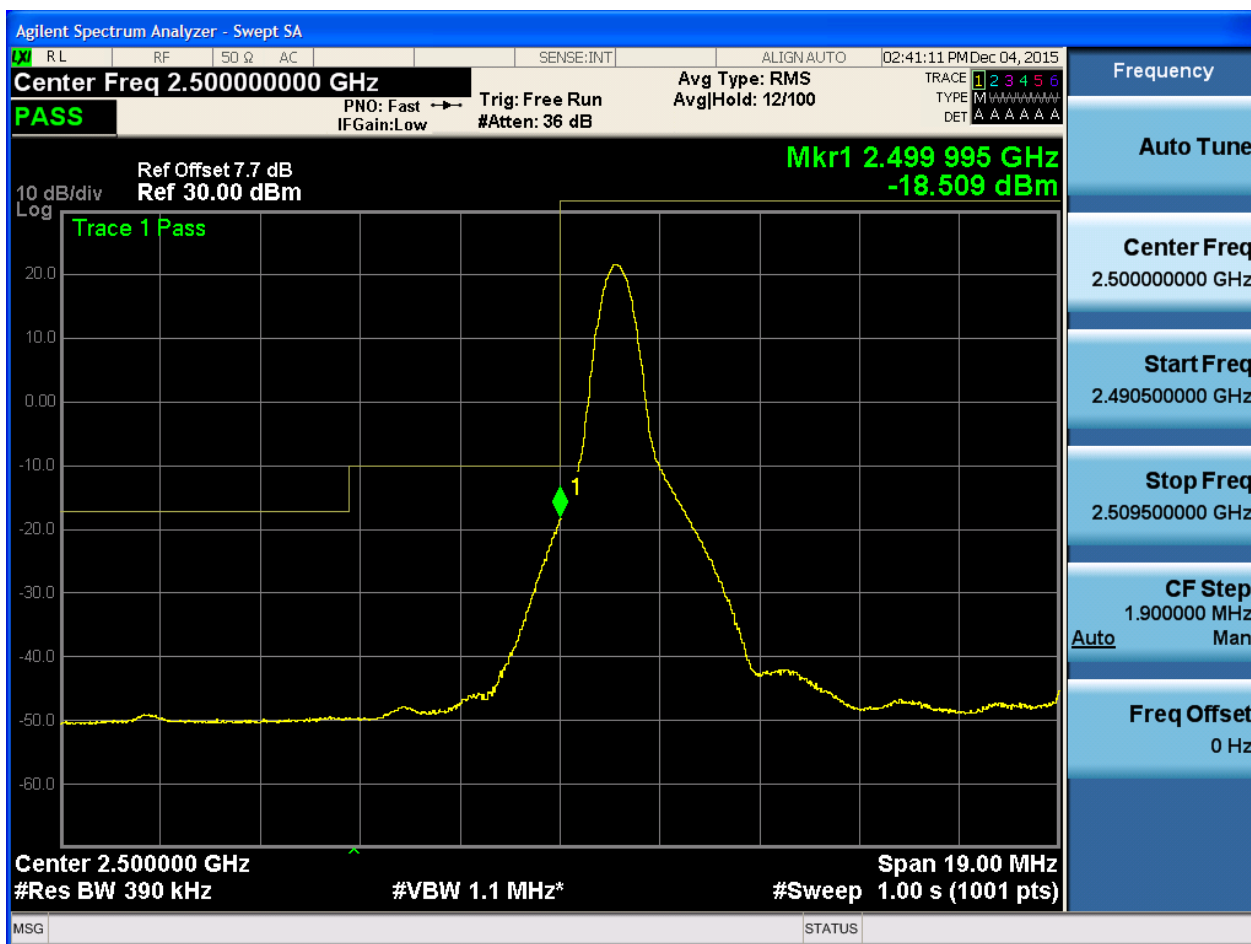




5.1.1.2.4 Test Bandwidth = 20

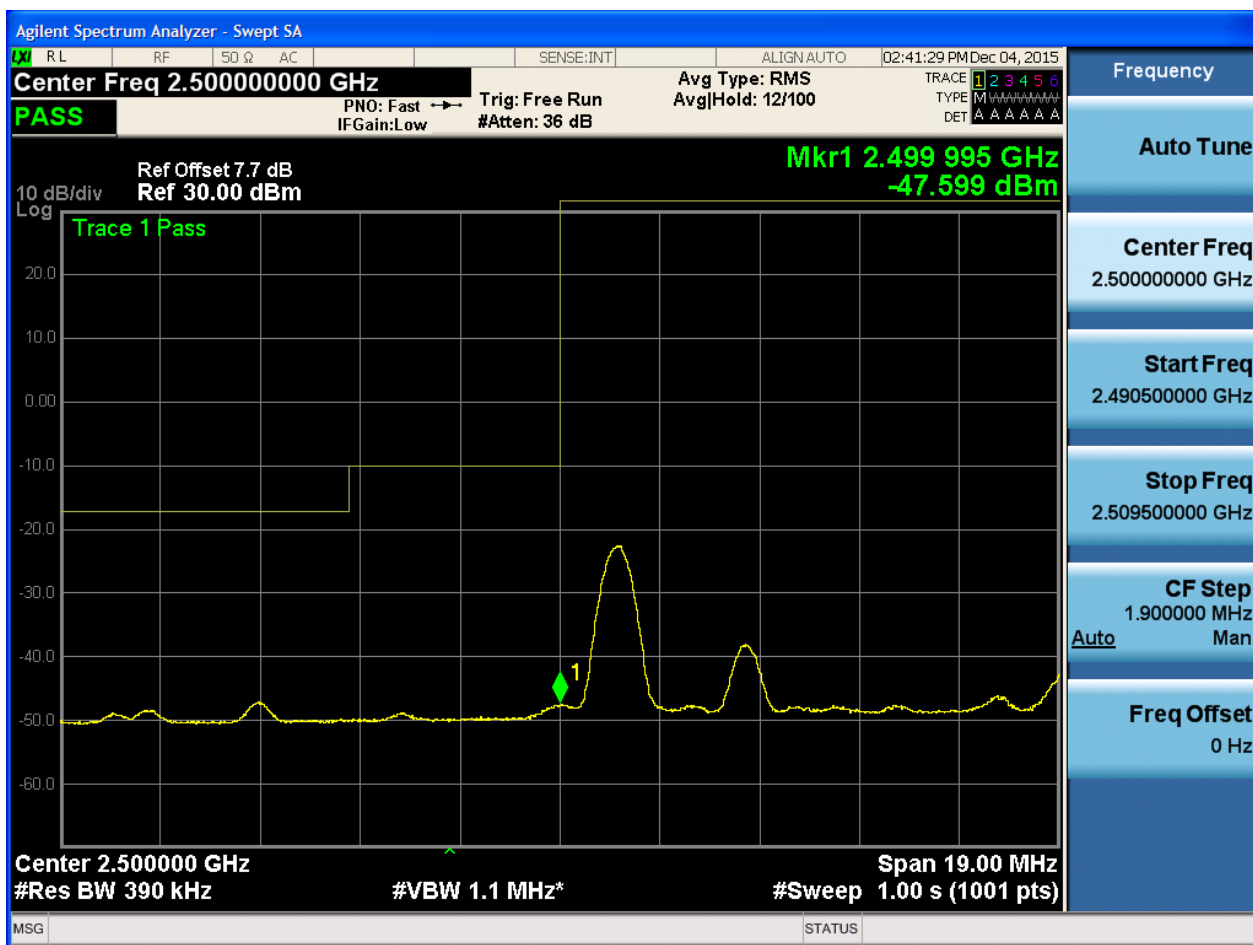
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



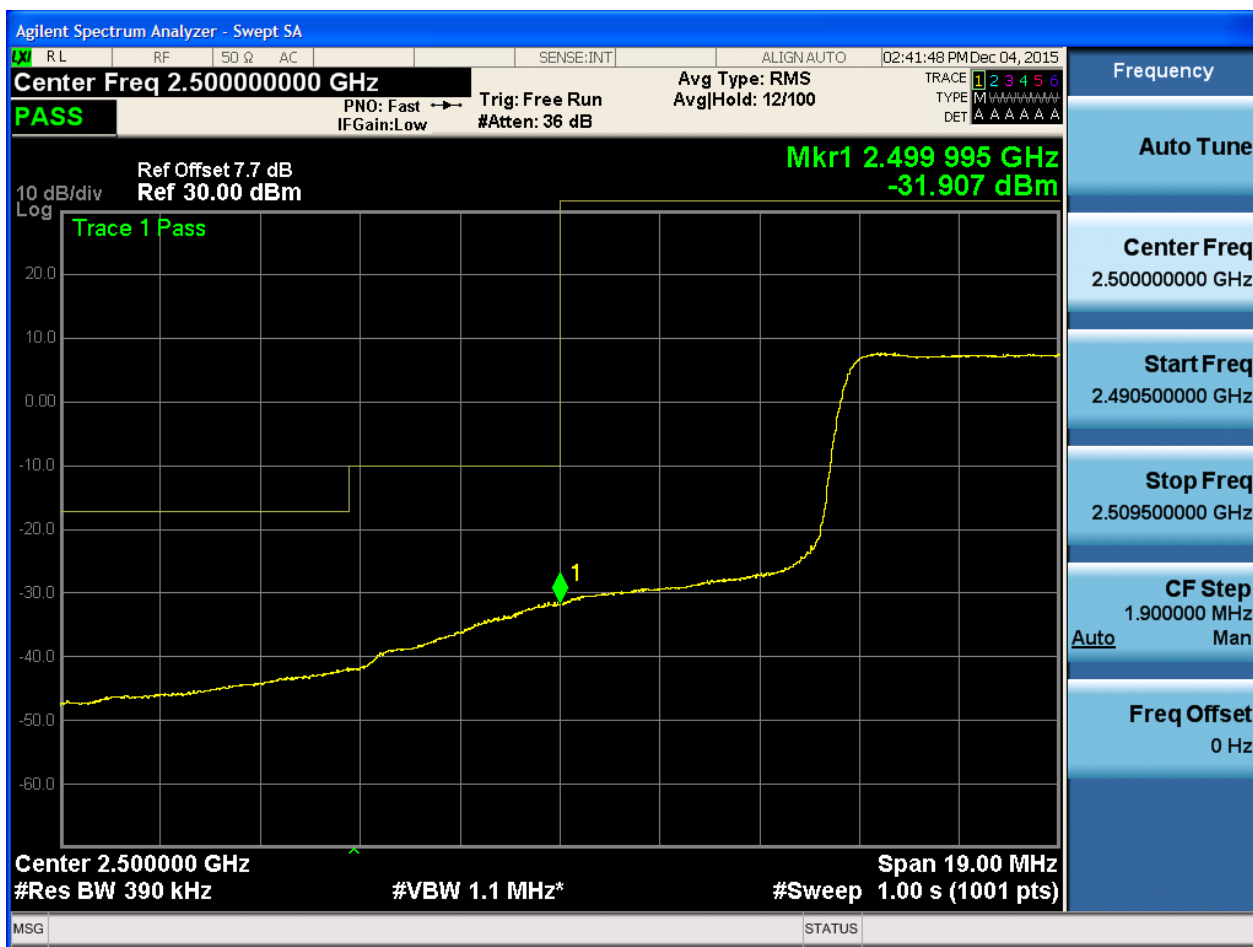


5.1.1.2.4.1.2 Test RB = RB1#99



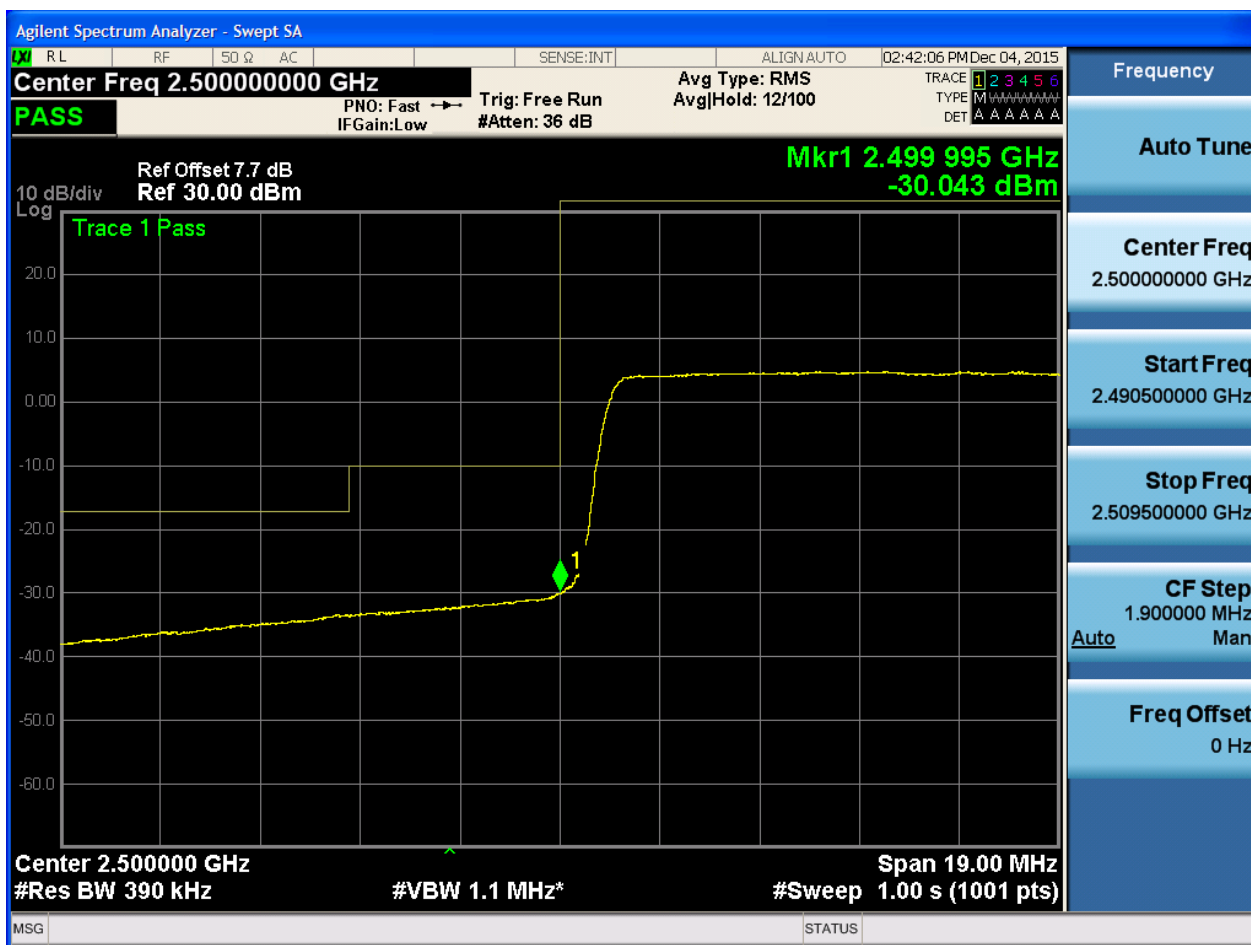


5.1.1.2.4.1.3 Test RB = RB50#25



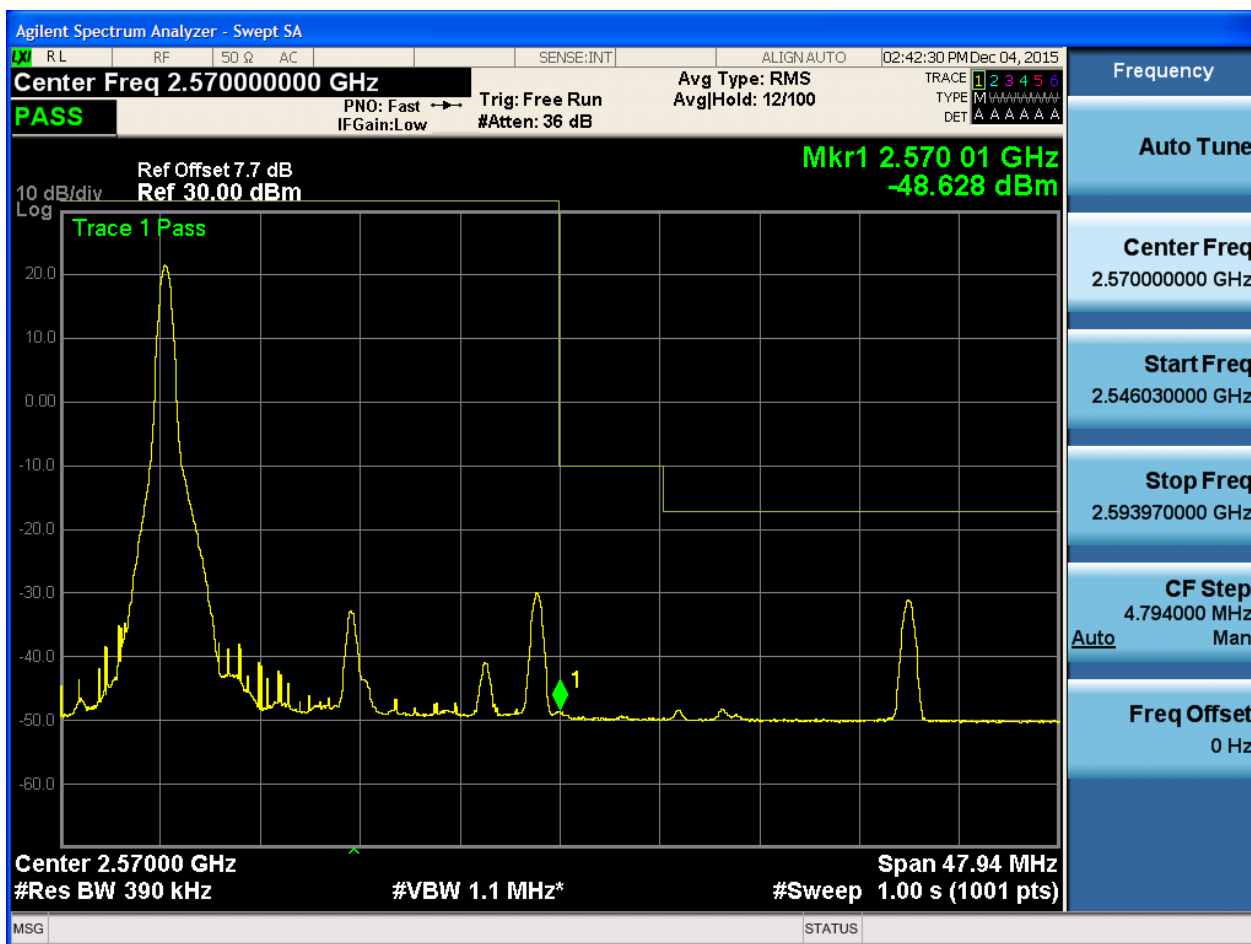


5.1.1.2.4.1.4 Test RB = RB100#0



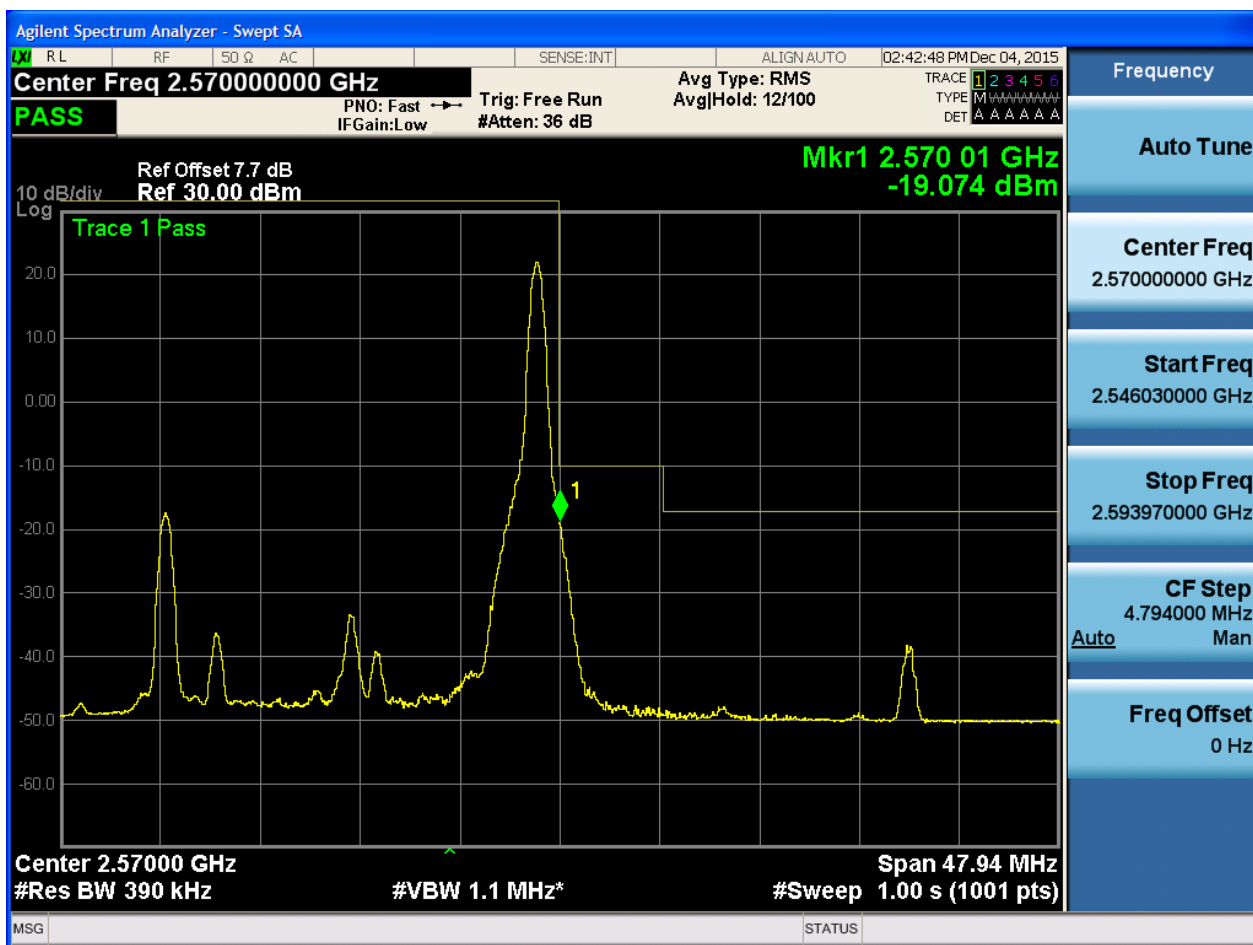
5.1.1.2.4.2 Test Channel = HCH

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

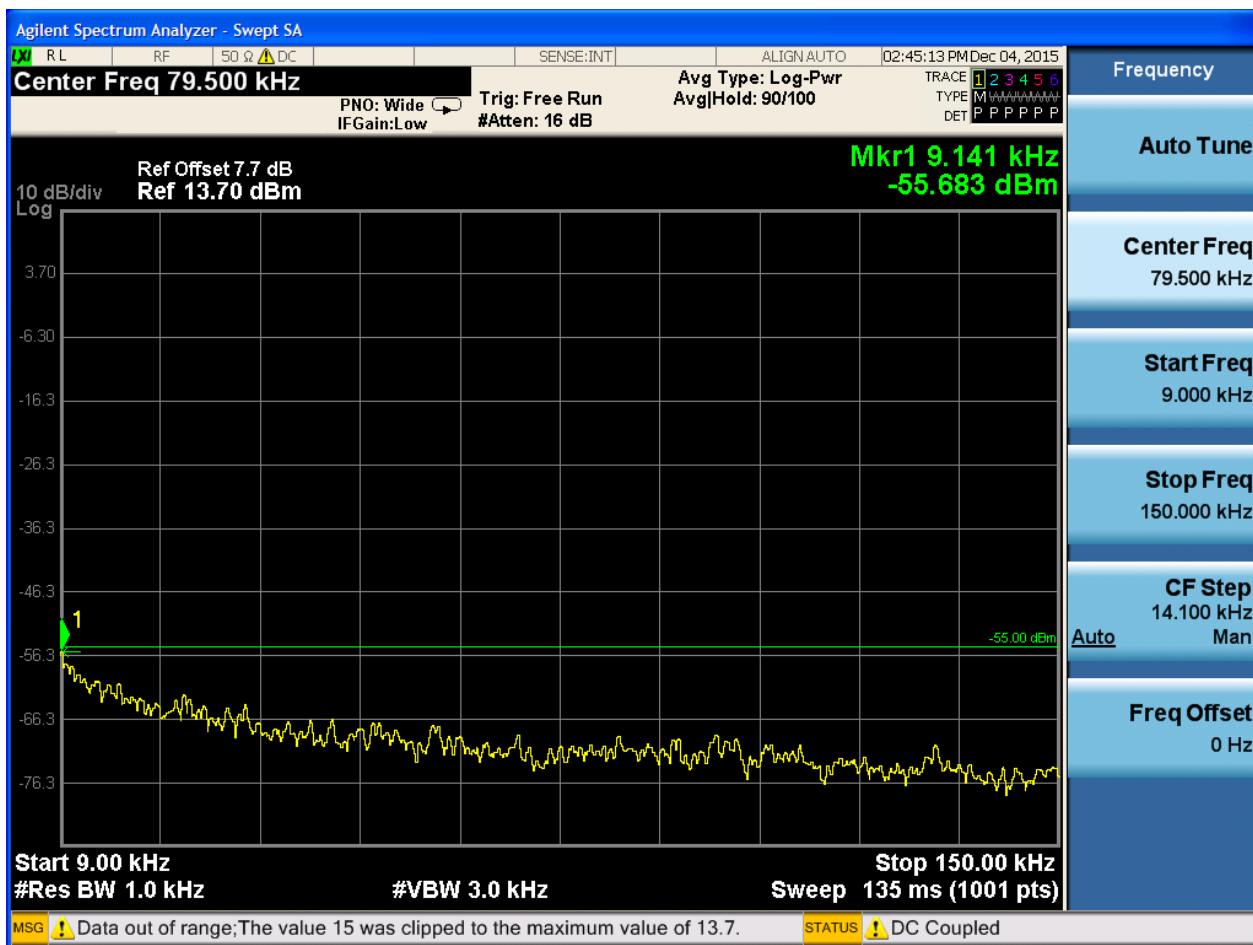
6.1.1 Test Band = BAND7

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



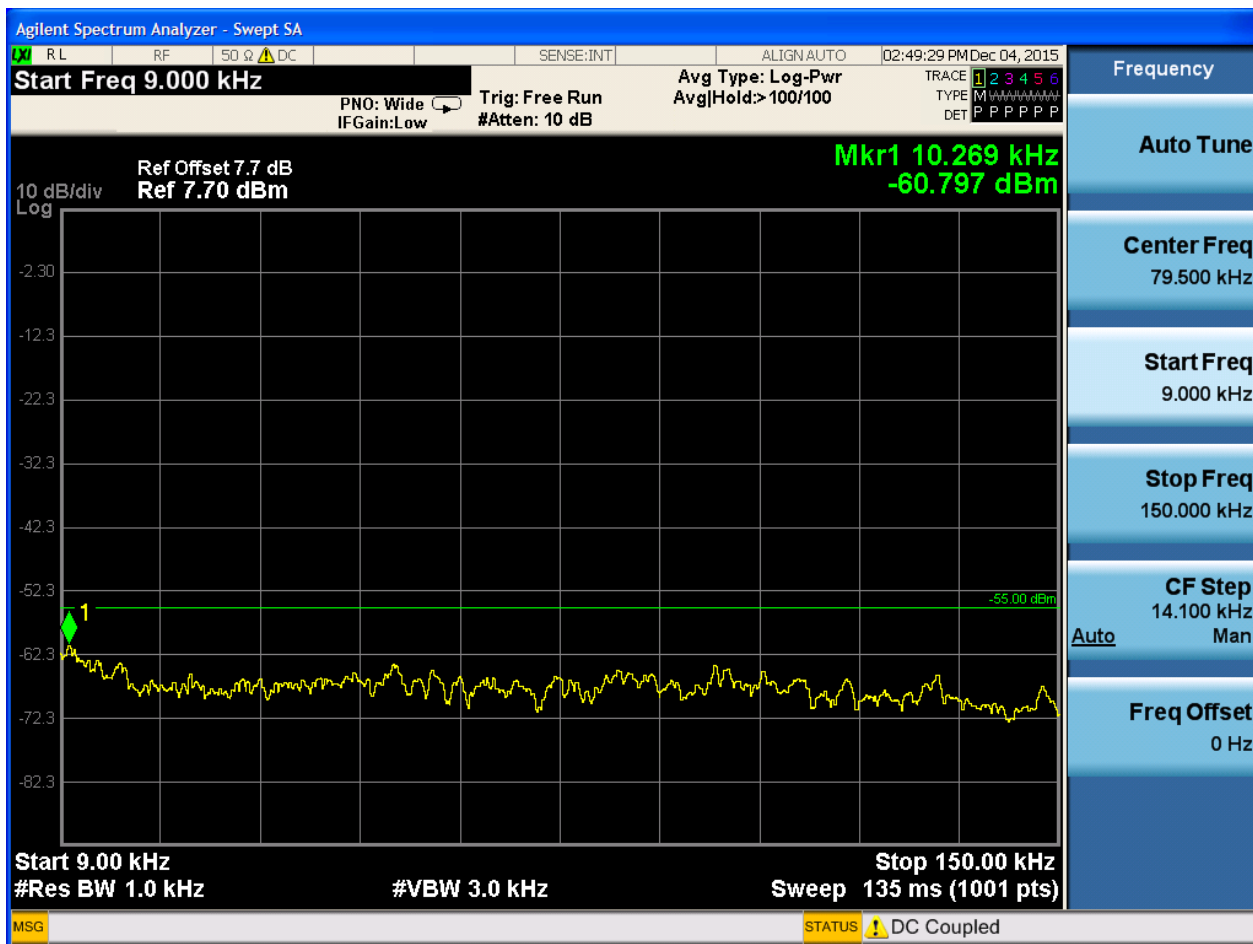


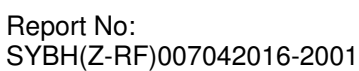


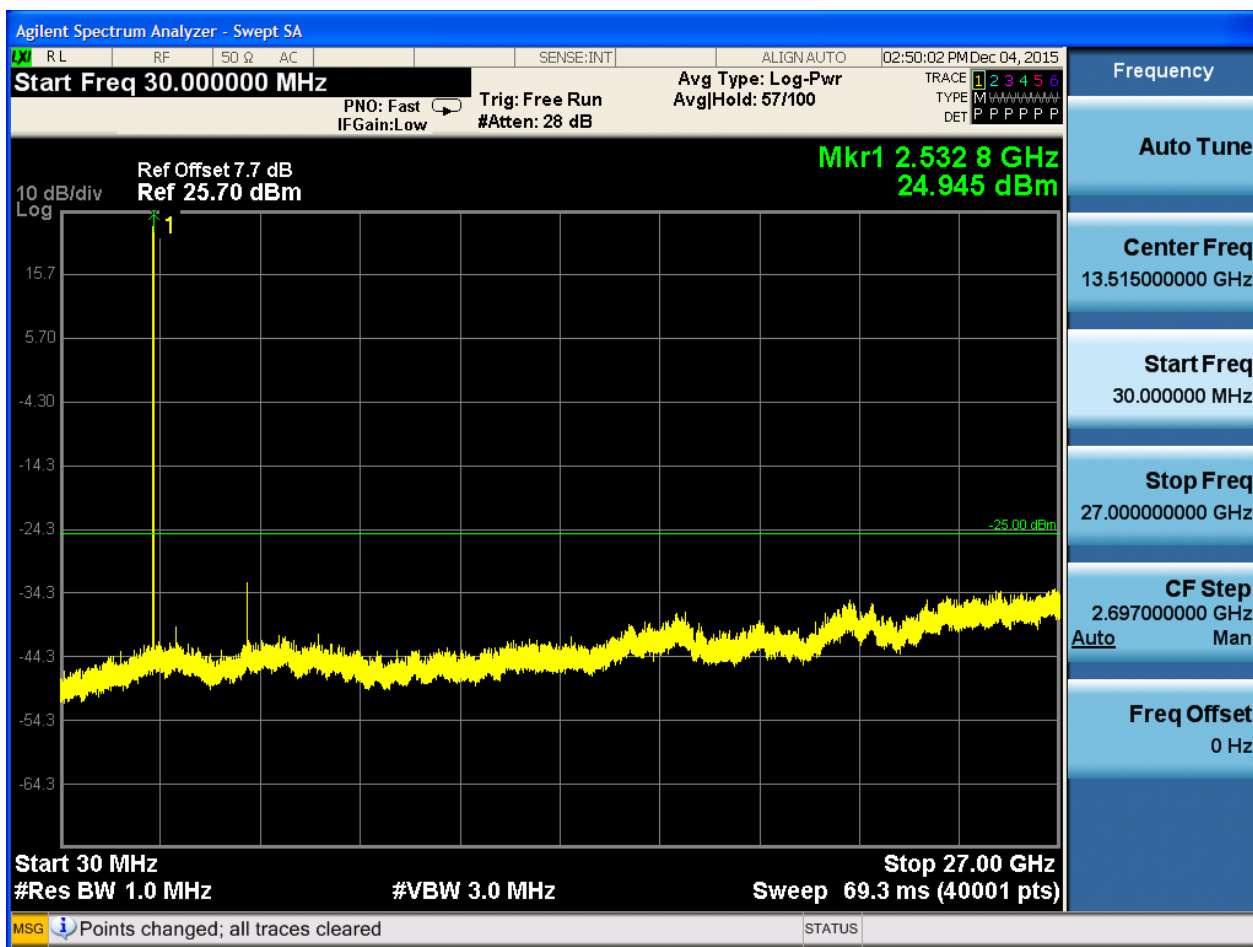


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



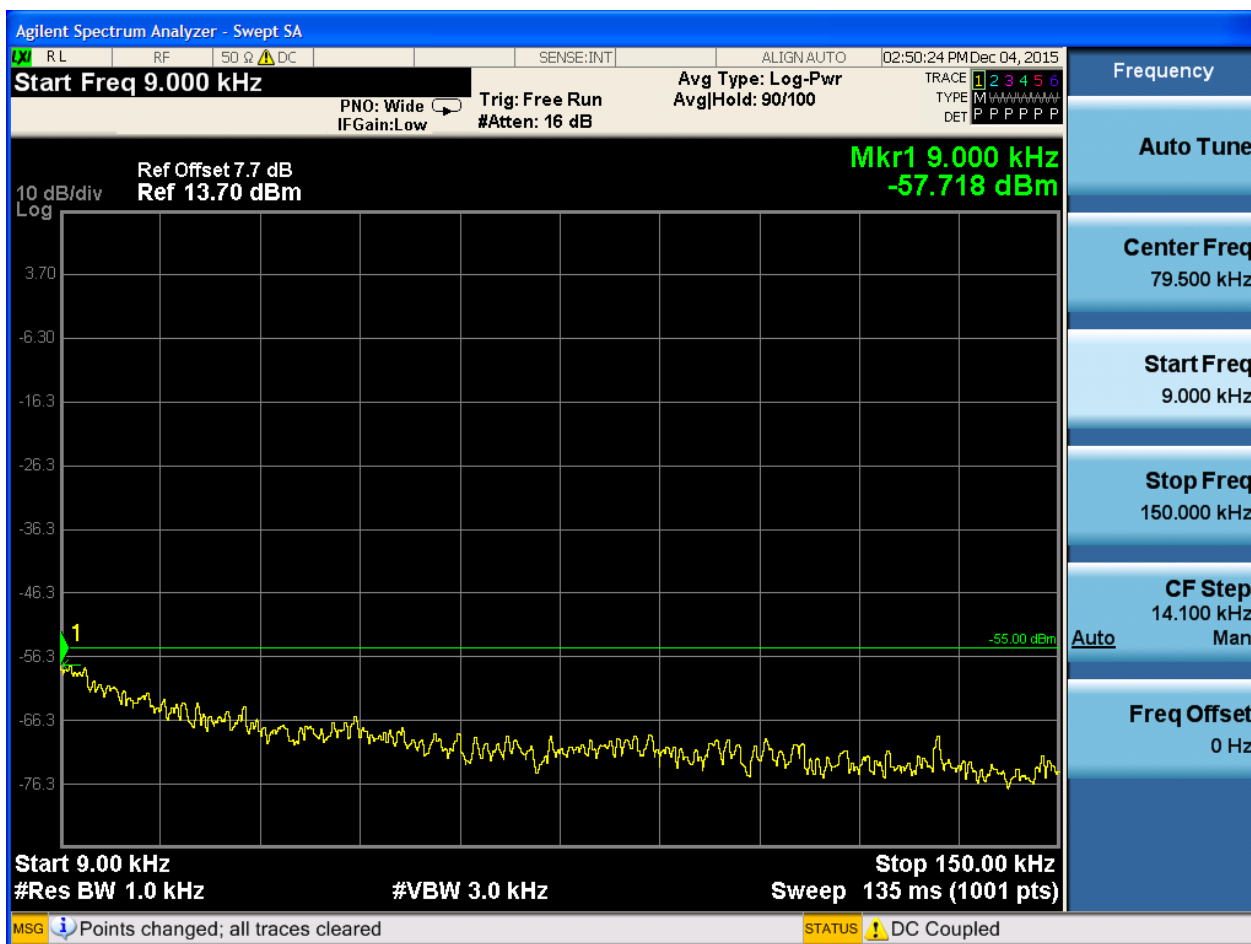


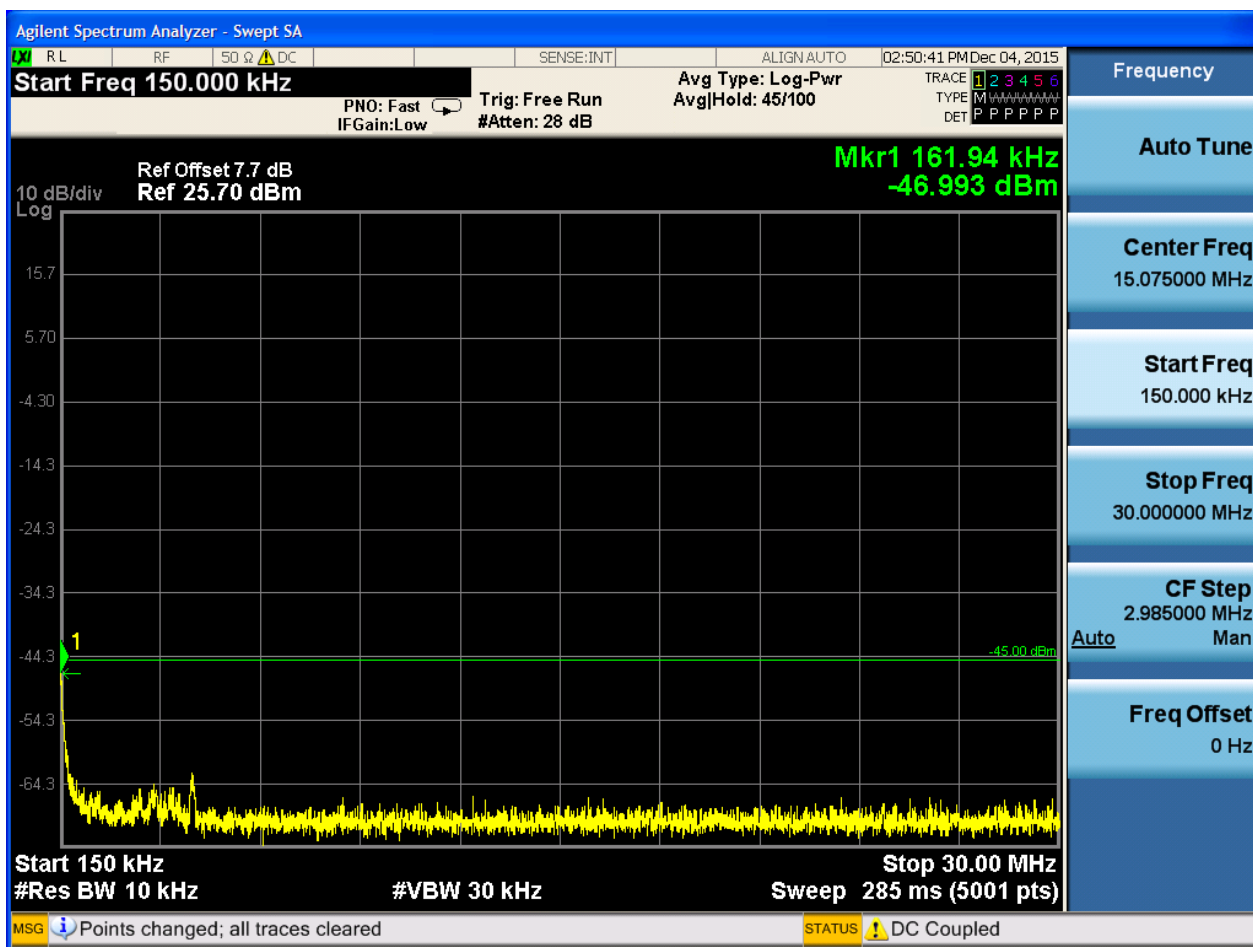


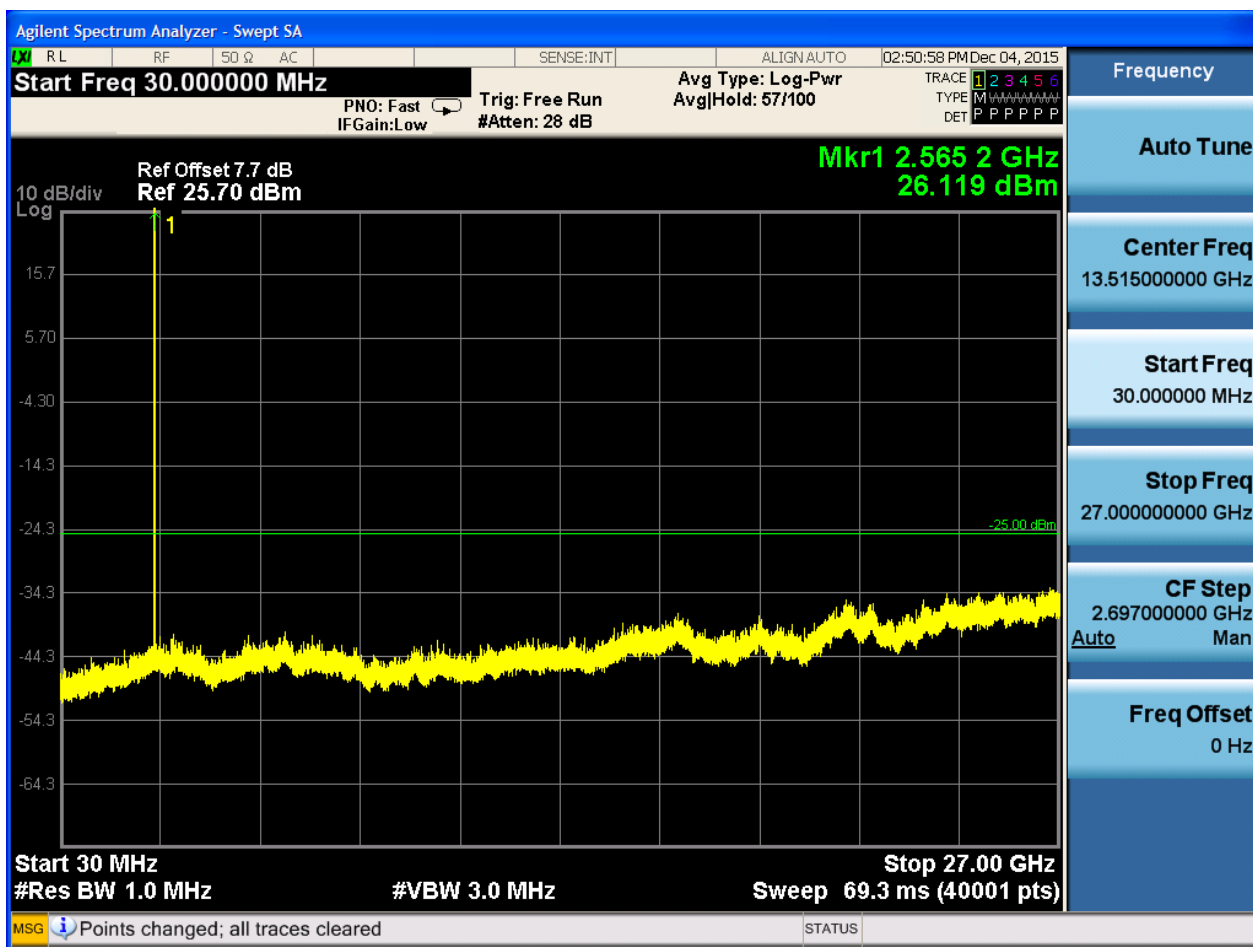


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0







6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

