



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	22.2	21.88	33	PASS
				RB1#13	22.42	21.95	33	PASS
				RB1#24	22.07	21.44	33	PASS
				RB12#0	21.4	20.76	33	PASS
				RB12#6	21.46	20.92	33	PASS
				RB12#13	21.25	20.89	33	PASS
				RB25#0	21.33	20.65	33	PASS
			MCH	RB1#0	22.28	21.70	33	PASS
				RB1#13	22.37	21.91	33	PASS
				RB1#24	21.95	21.64	33	PASS
				RB12#0	21.5	21.09	33	PASS
				RB12#6	21.52	21.12	33	PASS
				RB12#13	21.24	20.80	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.32	20.88	33	PASS
			HCH	RB1#0	22.21	21.73	33	PASS
				RB1#13	22.31	21.88	33	PASS
				RB1#24	21.93	21.60	33	PASS
				RB12#0	21.37	20.74	33	PASS
				RB12#6	21.38	20.84	33	PASS
				RB12#13	21.18	20.72	33	PASS
				RB25#0	21.26	20.76	33	PASS
		10	LCH	RB1#0	22.15	21.71	33	PASS
				RB1#25	22.37	21.85	33	PASS
				RB1#49	22.11	21.65	33	PASS
				RB25#0	21.32	20.67	33	PASS
				RB25#13	21.35	20.77	33	PASS
				RB25#25	21.27	20.76	33	PASS
				RB50#0	21.37	21.05	33	PASS
			MCH	RB1#0	22.21	21.90	33	PASS
				RB1#25	22.42	21.91	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.04	21.73	33	PASS
				RB25#0	21.43	21.07	33	PASS
				RB25#13	21.39	21.01	33	PASS
				RB25#25	21.25	20.82	33	PASS
				RB50#0	21.3	20.83	33	PASS
			HCH	RB1#0	22.13	21.65	33	PASS
				RB1#25	22.34	21.65	33	PASS
				RB1#49	21.94	21.25	33	PASS
				RB25#0	21.25	20.63	33	PASS
				RB25#13	21.32	20.69	33	PASS
				RB25#25	21.19	20.75	33	PASS
				RB50#0	21.24	20.75	33	PASS
		15	LCH	RB1#0	22.02	21.34	33	PASS
				RB1#38	22.47	21.82	33	PASS
				RB1#74	21.81	21.34	33	PASS
				RB36#0	21.3	20.70	33	PASS
				RB36#18	21.31	20.82	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#39	21.17	20.53	33	PASS
				RB75#0	21.26	20.95	33	PASS
			MCH	RB1#0	22	21.68	33	PASS
				RB1#38	22.42	22.05	33	PASS
				RB1#74	21.88	21.22	33	PASS
				RB36#0	21.37	20.91	33	PASS
				RB36#18	21.47	21.16	33	PASS
				RB36#39	21.2	20.76	33	PASS
				RB75#0	21.25	20.60	33	PASS
			HCH	RB1#0	21.94	21.35	33	PASS
				RB1#38	22.35	21.81	33	PASS
				RB1#74	21.77	21.37	33	PASS
				RB36#0	21.18	20.81	33	PASS
				RB36#18	21.31	20.80	33	PASS
				RB36#39	21.15	20.61	33	PASS
				RB75#0	21.19	20.53	33	PASS
		20	LCH	RB1#0	22.19	21.69	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	22.42	21.86	33	PASS
				RB1#99	22.04	21.46	33	PASS
				RB50#0	21.34	21.00	33	PASS
				RB50#25	21.34	20.95	33	PASS
				RB50#50	21.21	20.59	33	PASS
				RB100#0	21.33	20.97	33	PASS
			MCH	RB1#0	21.95	21.32	33	PASS
				RB1#50	22.33	21.96	33	PASS
				RB1#99	22.03	21.70	33	PASS
				RB50#0	21.28	20.94	33	PASS
				RB50#25	21.31	20.64	33	PASS
				RB50#50	21.16	20.61	33	PASS
				RB100#0	21.22	20.78	33	PASS
			HCH	RB1#0	22.17	21.54	33	PASS
				RB1#50	22.4	21.79	33	PASS
				RB1#99	21.98	21.66	33	PASS
				RB50#0	21.36	20.69	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	21.35	20.85	33	PASS
				RB50#50	21.26	20.83	33	PASS
				RB100#0	21.28	20.81	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.23	20.71	33	PASS
				RB1#13	21.46	20.93	33	PASS
				RB1#24	21.06	20.76	33	PASS
				RB12#0	20.44	20.08	33	PASS
				RB12#6	20.5	19.94	33	PASS
				RB12#13	20.29	19.92	33	PASS
				RB25#0	20.34	19.77	33	PASS
			MCH	RB1#0	21.44	21.07	33	PASS
				RB1#13	21.52	20.93	33	PASS
				RB1#24	21.09	20.69	33	PASS
				RB12#0	20.59	20.22	33	PASS
				RB12#6	20.61	20.09	33	PASS
				RB12#13	20.33	19.65	33	PASS
				RB25#0	20.39	19.73	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.41	21.06	33	PASS
				RB1#13	21.52	21.06	33	PASS
				RB1#24	21.15	20.79	33	PASS
				RB12#0	20.36	20.03	33	PASS
				RB12#6	20.37	20.05	33	PASS
				RB12#13	20.17	19.78	33	PASS
				RB25#0	20.24	19.66	33	PASS
		10	LCH	RB1#0	21.14	20.49	33	PASS
				RB1#25	21.41	21.11	33	PASS
				RB1#49	21.06	20.66	33	PASS
				RB25#0	20.26	19.75	33	PASS
				RB25#13	20.3	19.61	33	PASS
				RB25#25	20.2	19.88	33	PASS
				RB50#0	20.29	19.81	33	PASS
			MCH	RB1#0	21.36	21.06	33	PASS
				RB1#25	21.56	21.24	33	PASS
				RB1#49	21.17	20.58	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.41	19.83	33	PASS
				RB25#13	20.37	20.03	33	PASS
				RB25#25	20.22	19.89	33	PASS
				RB50#0	20.31	19.88	33	PASS
			HCH	RB1#0	21.17	20.76	33	PASS
				RB1#25	21.43	21.00	33	PASS
				RB1#49	21.04	20.69	33	PASS
				RB25#0	20.26	19.85	33	PASS
				RB25#13	20.32	19.81	33	PASS
				RB25#25	20.18	19.61	33	PASS
				RB50#0	20.18	19.74	33	PASS
		15	LCH	RB1#0	20.93	20.61	33	PASS
				RB1#38	21.47	20.93	33	PASS
				RB1#74	20.79	20.30	33	PASS
				RB36#0	20.26	19.83	33	PASS
				RB36#18	20.25	19.69	33	PASS
				RB36#39	20.11	19.62	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	20.18	19.83	33	PASS
			MCH	RB1#0	21.2	20.75	33	PASS
				RB1#38	21.67	20.98	33	PASS
				RB1#74	21.05	20.74	33	PASS
				RB36#0	20.34	19.85	33	PASS
				RB36#18	20.45	20.11	33	PASS
				RB36#39	20.18	19.52	33	PASS
				RB75#0	20.21	19.61	33	PASS
			HCH	RB1#0	20.95	20.32	33	PASS
				RB1#38	21.43	20.88	33	PASS
				RB1#74	20.98	20.46	33	PASS
				RB36#0	20.12	19.75	33	PASS
				RB36#18	20.23	19.54	33	PASS
				RB36#39	20.08	19.75	33	PASS
				RB75#0	20.13	19.68	33	PASS
		20	LCH	RB1#0	21.52	20.90	33	PASS
				RB1#50	21.83	21.30	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.38	21.04	33	PASS
				RB50#0	20.28	19.75	33	PASS
				RB50#25	20.28	19.69	33	PASS
				RB50#50	20.14	19.51	33	PASS
				RB100#0	20.29	19.82	33	PASS
			MCH	RB1#0	21.46	21.04	33	PASS
				RB1#50	21.81	21.13	33	PASS
				RB1#99	21.44	21.04	33	PASS
				RB50#0	20.33	19.65	33	PASS
				RB50#25	20.37	19.87	33	PASS
				RB50#50	20.21	19.82	33	PASS
				RB100#0	20.26	19.89	33	PASS
			HCH	RB1#0	21.29	20.77	33	PASS
				RB1#50	21.53	20.83	33	PASS
				RB1#99	21.17	20.50	33	PASS
				RB50#0	20.27	19.83	33	PASS
				RB50#25	20.27	19.70	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.15	19.47	33	PASS
				RB100#0	20.19	19.87	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
BAND7	LTE/TM1	5	LCH	RB1#0	4.29	13	PASS
				RB1#13	4.27	13	PASS
				RB1#24	4.63	13	PASS
				RB12#0	5.09	13	PASS
				RB12#6	5.01	13	PASS
				RB12#13	5.3	13	PASS
				RB25#0	5.6	13	PASS
			MCH	RB1#0	4.56	13	PASS
				RB1#13	4.47	13	PASS
				RB1#24	4.78	13	PASS
				RB12#0	5.29	13	PASS
				RB12#6	5.19	13	PASS
				RB12#13	5.47	13	PASS
				RB25#0	5.79	13	PASS
			HCH	RB1#0	4.2	13	PASS
				RB1#13	4.11	13	PASS
				RB1#24	4.37	13	PASS
				RB12#0	5.37	13	PASS
				RB12#6	5.22	13	PASS
				RB12#13	5.44	13	PASS
				RB25#0	5.66	13	PASS
		10	LCH	RB1#0	4.3	13	PASS
				RB1#25	4.33	13	PASS
				RB1#49	4.79	13	PASS
				RB25#0	5.4	13	PASS
				RB25#13	5.43	13	PASS
				RB25#25	5.7	13	PASS
				RB50#0	5.8	13	PASS
			MCH	RB1#0	4.73	13	PASS
				RB1#25	4.51	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.87	13	PASS
				RB25#0	5.47	13	PASS
				RB25#13	5.46	13	PASS
				RB25#25	5.71	13	PASS
				RB50#0	5.81	13	PASS
			HCH	RB1#0	4.39	13	PASS
				RB1#25	4.16	13	PASS
				RB1#49	4.44	13	PASS
				RB25#0	5.48	13	PASS
				RB25#13	5.27	13	PASS
				RB25#25	5.53	13	PASS
				RB50#0	5.63	13	PASS
		15	LCH	RB1#0	4.55	13	PASS
				RB1#38	4.5	13	PASS
				RB1#74	5.2	13	PASS
				RB36#0	5.6	13	PASS
				RB36#18	5.71	13	PASS
				RB36#39	5.95	13	PASS
				RB75#0	6.17	13	PASS
			MCH	RB1#0	4.95	13	PASS
				RB1#38	4.6	13	PASS
				RB1#74	5.14	13	PASS
				RB36#0	5.81	13	PASS
				RB36#18	5.68	13	PASS
				RB36#39	5.97	13	PASS
				RB75#0	6.01	13	PASS
			HCH	RB1#0	4.59	13	PASS
				RB1#38	4.15	13	PASS
				RB1#74	4.45	13	PASS
				RB36#0	5.64	13	PASS
				RB36#18	5.43	13	PASS
				RB36#39	5.62	13	PASS
				RB75#0	5.91	13	PASS
		20	LCH	RB1#0	4.45	13	PASS
				RB1#50	4.8	13	PASS
				RB1#99	5.18	13	PASS
				RB50#0	5.68	13	PASS
				RB50#25	5.78	13	PASS
				RB50#50	6.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	6.09	13	PASS
			MCH	RB1#0	4.87	13	PASS
				RB1#50	4.61	13	PASS
				RB1#99	5	13	PASS
				RB50#0	5.6	13	PASS
				RB50#25	5.56	13	PASS
				RB50#50	5.83	13	PASS
				RB100#0	5.88	13	PASS
			HCH	RB1#0	4.79	13	PASS
				RB1#50	4.38	13	PASS
				RB1#99	4.53	13	PASS
				RB50#0	5.73	13	PASS
				RB50#25	5.54	13	PASS
				RB50#50	5.61	13	PASS
				RB100#0	5.93	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.25	13	PASS
				RB1#13	5.24	13	PASS
				RB1#24	5.53	13	PASS
				RB12#0	6.19	13	PASS
				RB12#6	6.13	13	PASS
				RB12#13	6.43	13	PASS
				RB25#0	6.46	13	PASS
			MCH	RB1#0	5.42	13	PASS
				RB1#13	5.37	13	PASS
				RB1#24	5.67	13	PASS
				RB12#0	6.26	13	PASS
				RB12#6	6.3	13	PASS
				RB12#13	6.45	13	PASS
				RB25#0	6.67	13	PASS
			HCH	RB1#0	5.38	13	PASS
				RB1#13	5.43	13	PASS
				RB1#24	5.54	13	PASS
				RB12#0	6.27	13	PASS
				RB12#6	6.16	13	PASS
				RB12#13	6.35	13	PASS
				RB25#0	6.5	13	PASS
		10	LCH	RB1#0	5.13	13	PASS
				RB1#25	5.26	13	PASS
				RB1#49	5.61	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.32	13	PASS
				RB25#13	6.39	13	PASS
				RB25#25	6.67	13	PASS
				RB50#0	6.67	13	PASS
			MCH	RB1#0	5.67	13	PASS
				RB1#25	5.49	13	PASS
				RB1#49	5.9	13	PASS
				RB25#0	6.44	13	PASS
				RB25#13	6.37	13	PASS
				RB25#25	6.55	13	PASS
				RB50#0	6.74	13	PASS
			HCH	RB1#0	5.42	13	PASS
				RB1#25	5.22	13	PASS
				RB1#49	5.43	13	PASS
				RB25#0	6.32	13	PASS
				RB25#13	6.2	13	PASS
				RB25#25	6.31	13	PASS
				RB50#0	6.66	13	PASS
		15	LCH	RB1#0	5.44	13	PASS
				RB1#38	5.51	13	PASS
				RB1#74	6.04	13	PASS
				RB36#0	6.51	13	PASS
				RB36#18	6.54	13	PASS
				RB36#39	6.8	13	PASS
				RB75#0	7.12	13	PASS
			MCH	RB1#0	5.74	13	PASS
				RB1#38	5.45	13	PASS
				RB1#74	5.89	13	PASS
				RB36#0	6.47	13	PASS
				RB36#18	6.34	13	PASS
				RB36#39	6.67	13	PASS
				RB75#0	6.84	13	PASS
			HCH	RB1#0	5.61	13	PASS
				RB1#38	5.26	13	PASS
				RB1#74	5.47	13	PASS
				RB36#0	6.56	13	PASS
				RB36#18	6.3	13	PASS
				RB36#39	6.42	13	PASS
				RB75#0	6.87	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	5.13	13	PASS
				RB1#50	5.32	13	PASS
				RB1#99	5.83	13	PASS
				RB50#0	6.55	13	PASS
				RB50#25	6.7	13	PASS
				RB50#50	6.9	13	PASS
				RB100#0	7.03	13	PASS
			MCH	RB1#0	5.44	13	PASS
				RB1#50	5.14	13	PASS
				RB1#99	5.61	13	PASS
				RB50#0	6.53	13	PASS
				RB50#25	6.46	13	PASS
				RB50#50	6.69	13	PASS
				RB100#0	7.07	13	PASS
			HCH	RB1#0	5.52	13	PASS
				RB1#50	5.1	13	PASS
				RB1#99	5.27	13	PASS
				RB50#0	6.51	13	PASS
				RB50#25	6.38	13	PASS
				RB50#50	6.41	13	PASS
				RB100#0	6.76	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

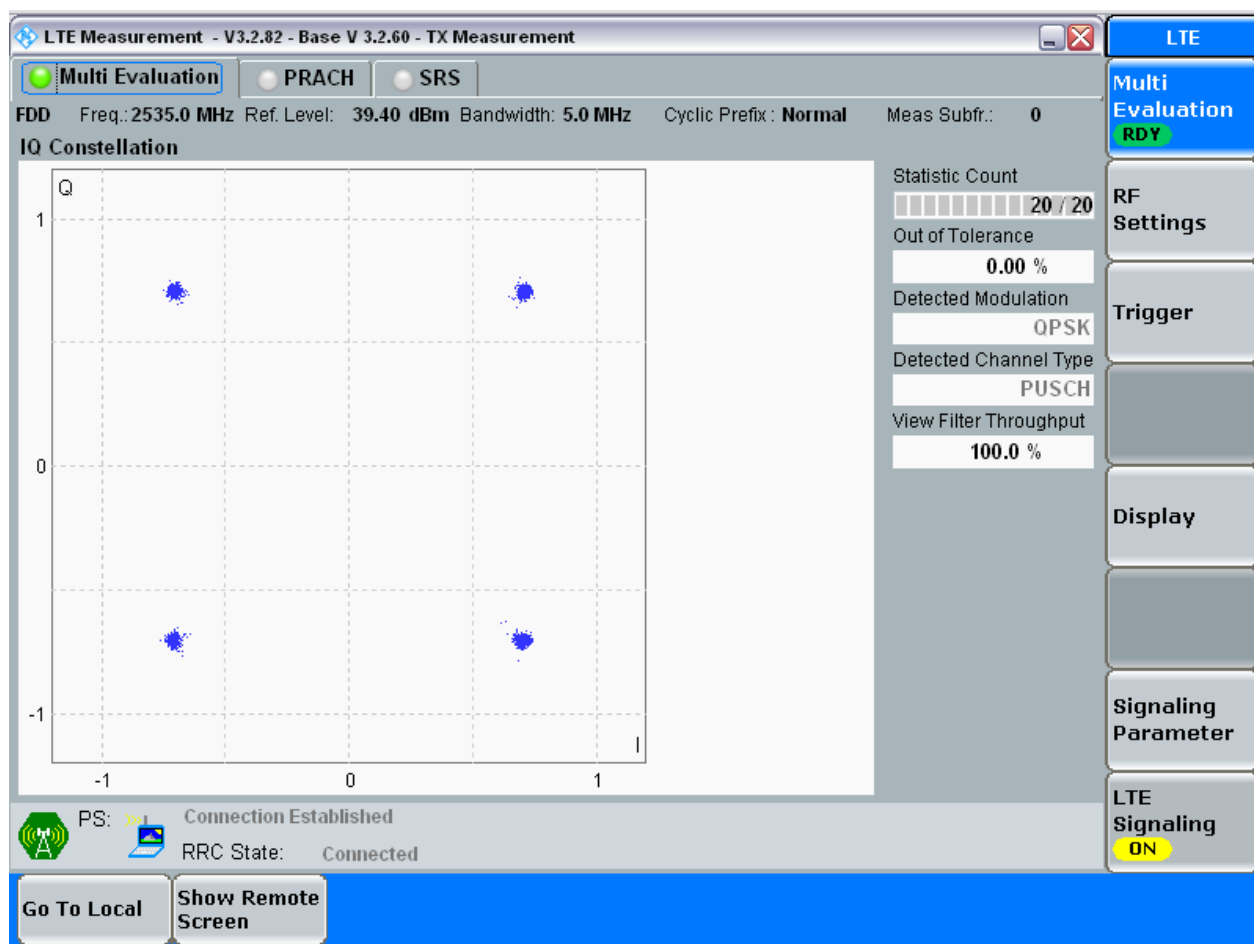
3.1.1 Test Band = BAND7

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

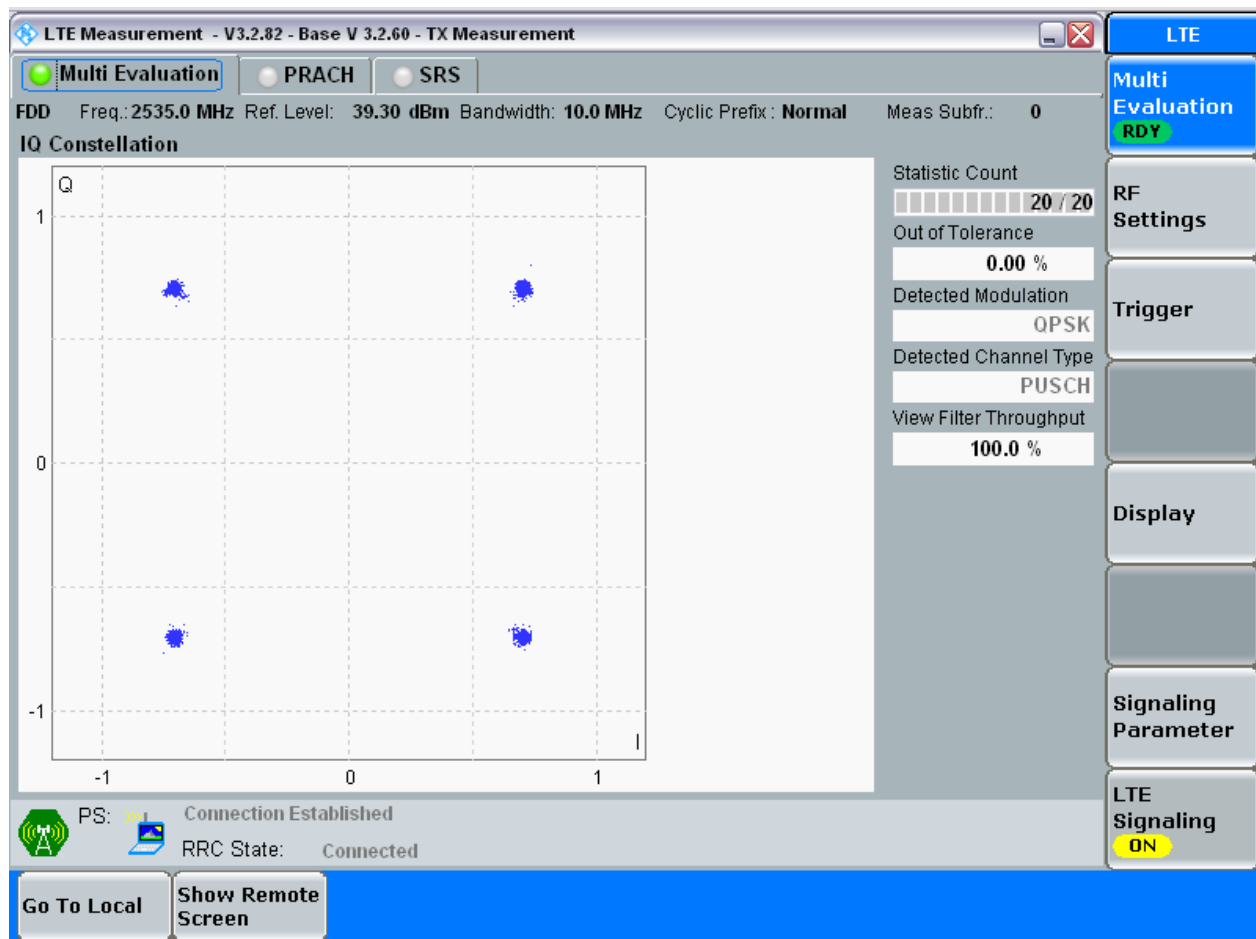
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

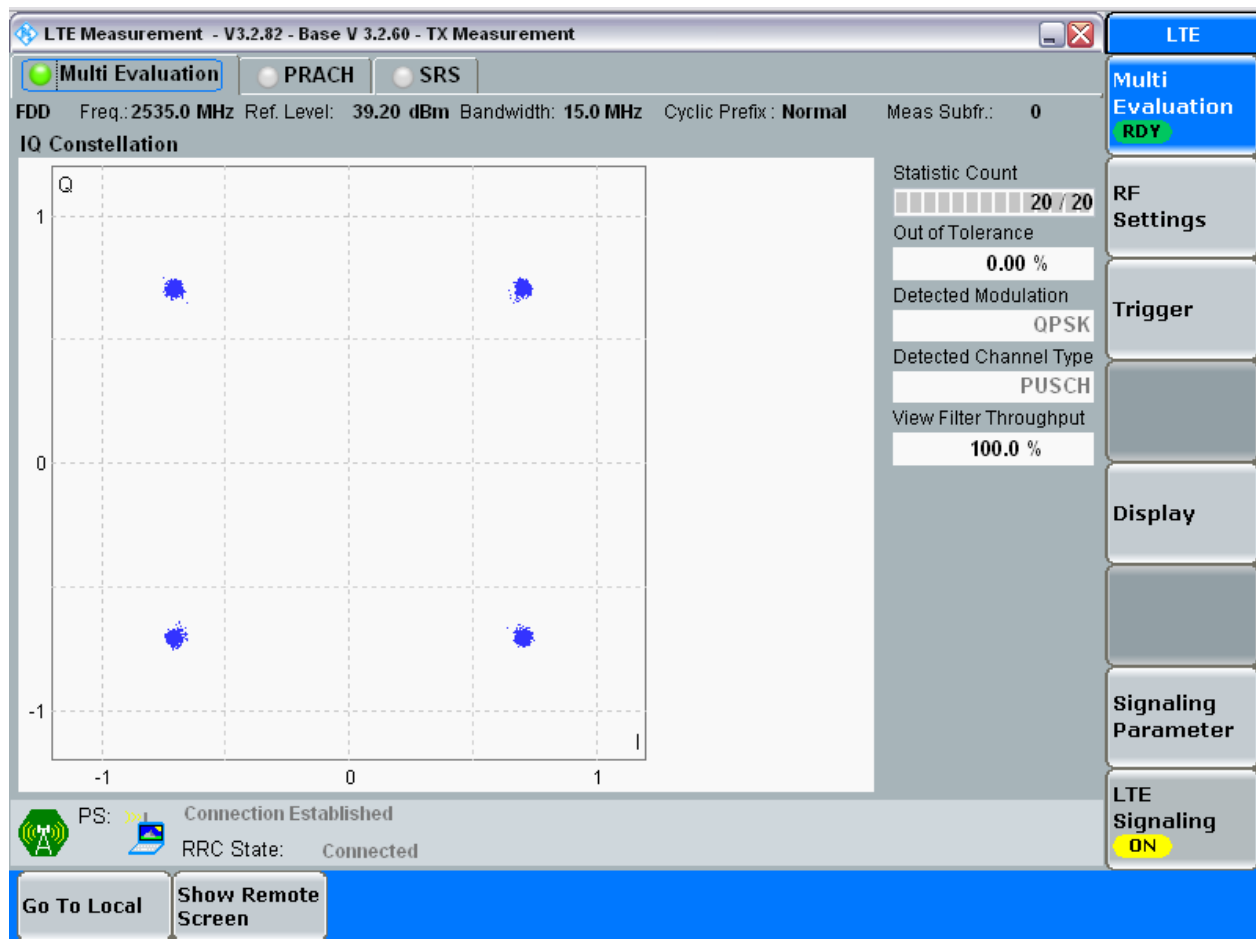
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

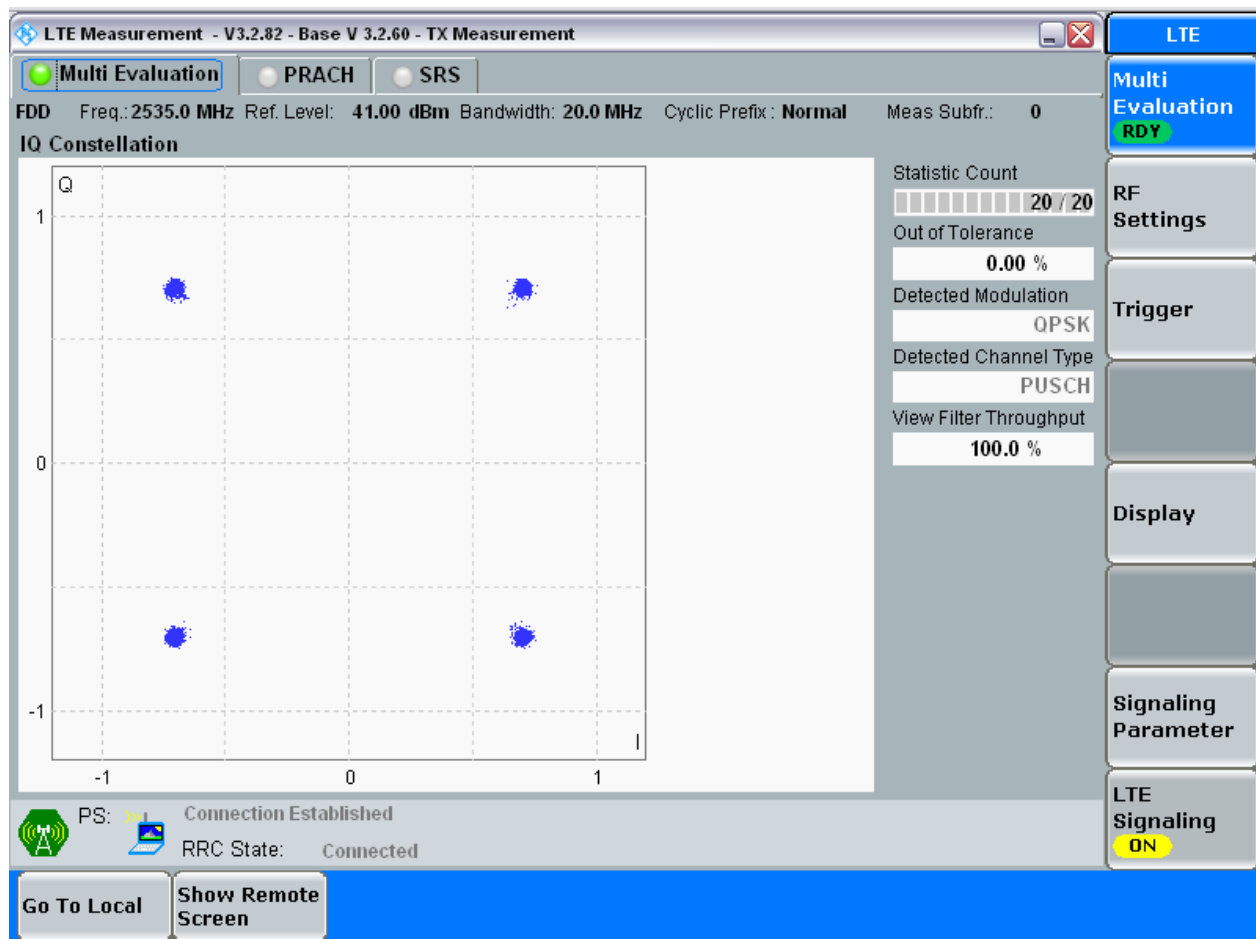
3.1.1.1.3.1.1 Test RB = RB75#0



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

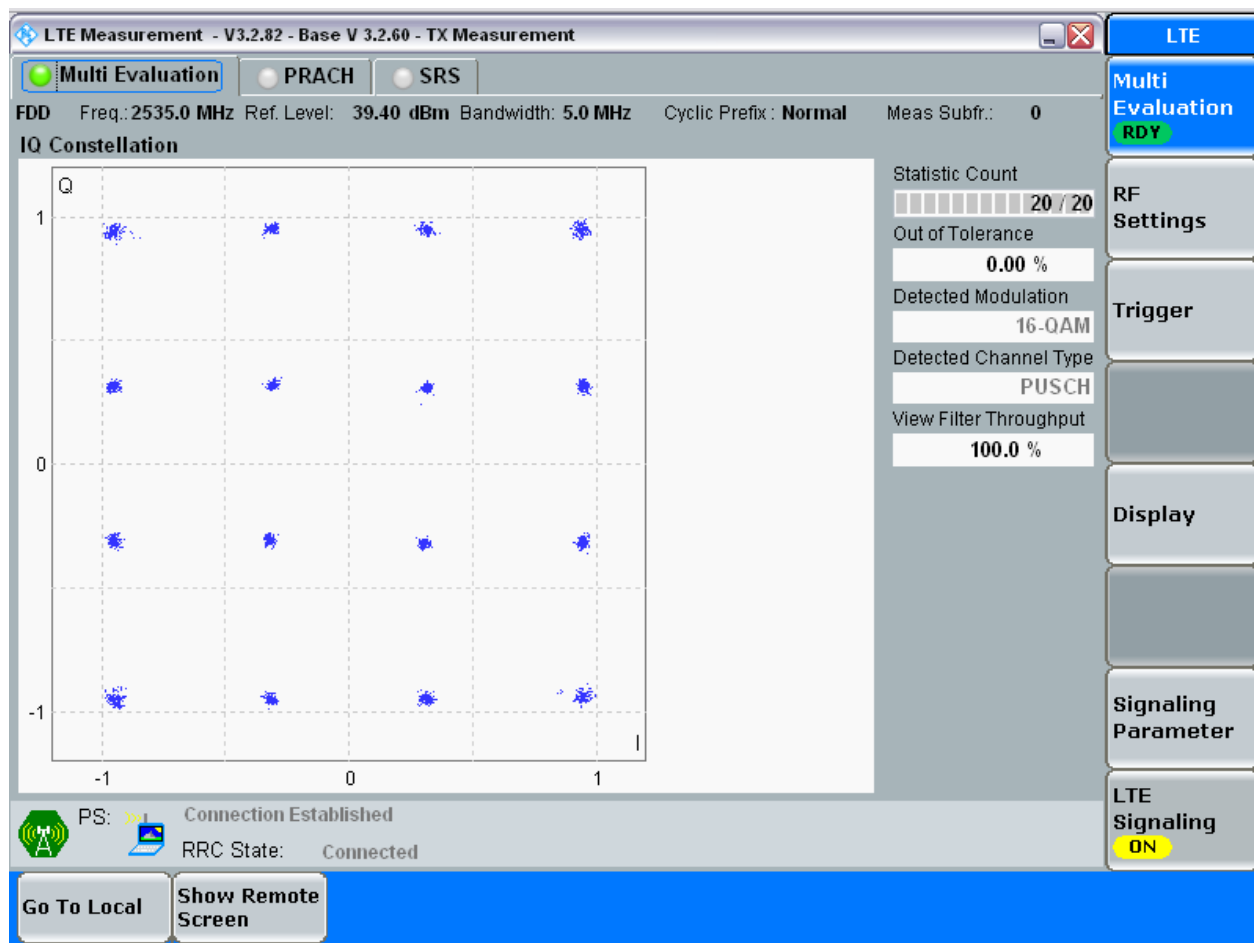


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

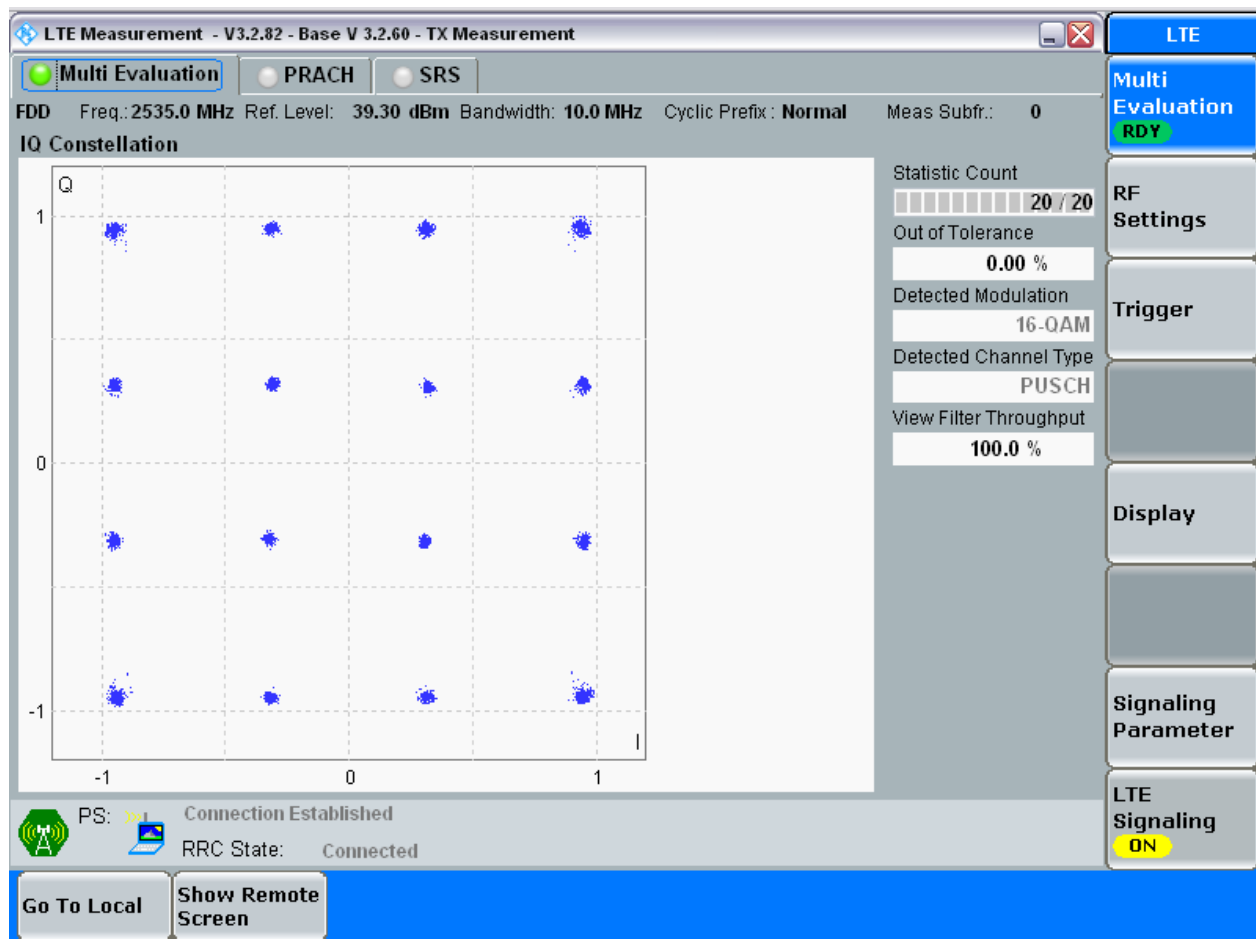
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

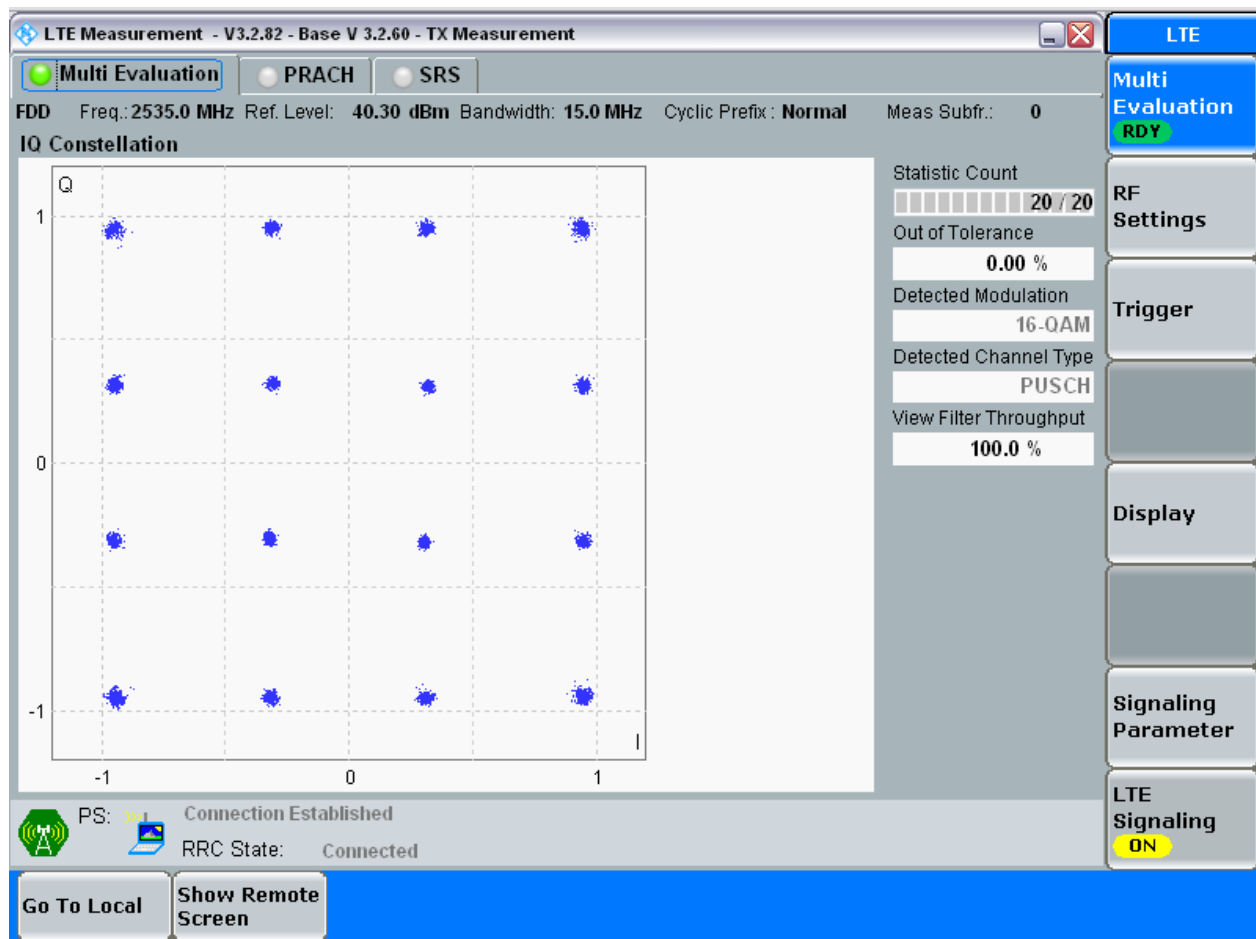
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

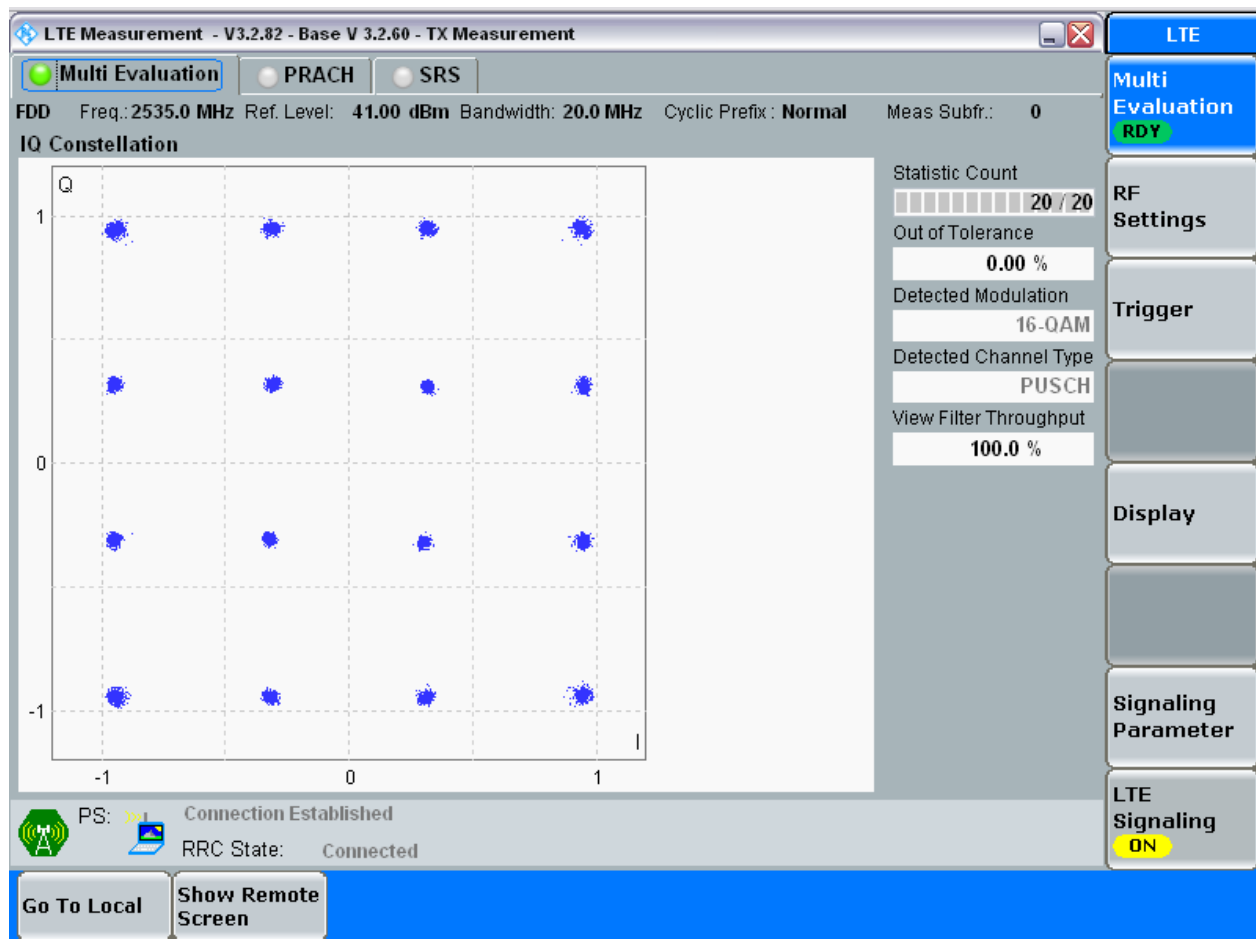
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.87	Pass
			MCH	RB25#0	4.50	4.87	Pass
			HCH	RB25#0	4.50	4.84	Pass
		10	LCH	RB50#0	8.99	9.64	Pass
			MCH	RB50#0	8.99	9.61	Pass
			HCH	RB50#0	8.98	9.63	Pass
		15	LCH	RB75#0	13.46	14.41	Pass
			MCH	RB75#0	13.47	14.45	Pass
			HCH	RB75#0	13.47	14.42	Pass
		20	LCH	RB100#0	17.97	19.13	Pass
			MCH	RB100#0	17.94	19.08	Pass
			HCH	RB100#0	17.97	19.06	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	4.87	Pass
			MCH	RB25#0	4.50	4.86	Pass
			HCH	RB25#0	4.50	4.88	Pass
		10	LCH	RB50#0	8.99	9.63	Pass
			MCH	RB50#0	8.98	9.63	Pass
			HCH	RB50#0	8.98	9.63	Pass
		15	LCH	RB75#0	13.47	14.32	Pass
			MCH	RB75#0	13.46	14.40	Pass
			HCH	RB75#0	13.46	14.35	Pass
		20	LCH	RB100#0	17.98	19.04	Pass
			MCH	RB100#0	17.95	19.05	Pass
			HCH	RB100#0	17.96	19.14	Pass

Part II - Test Plots

4.1 For LTE

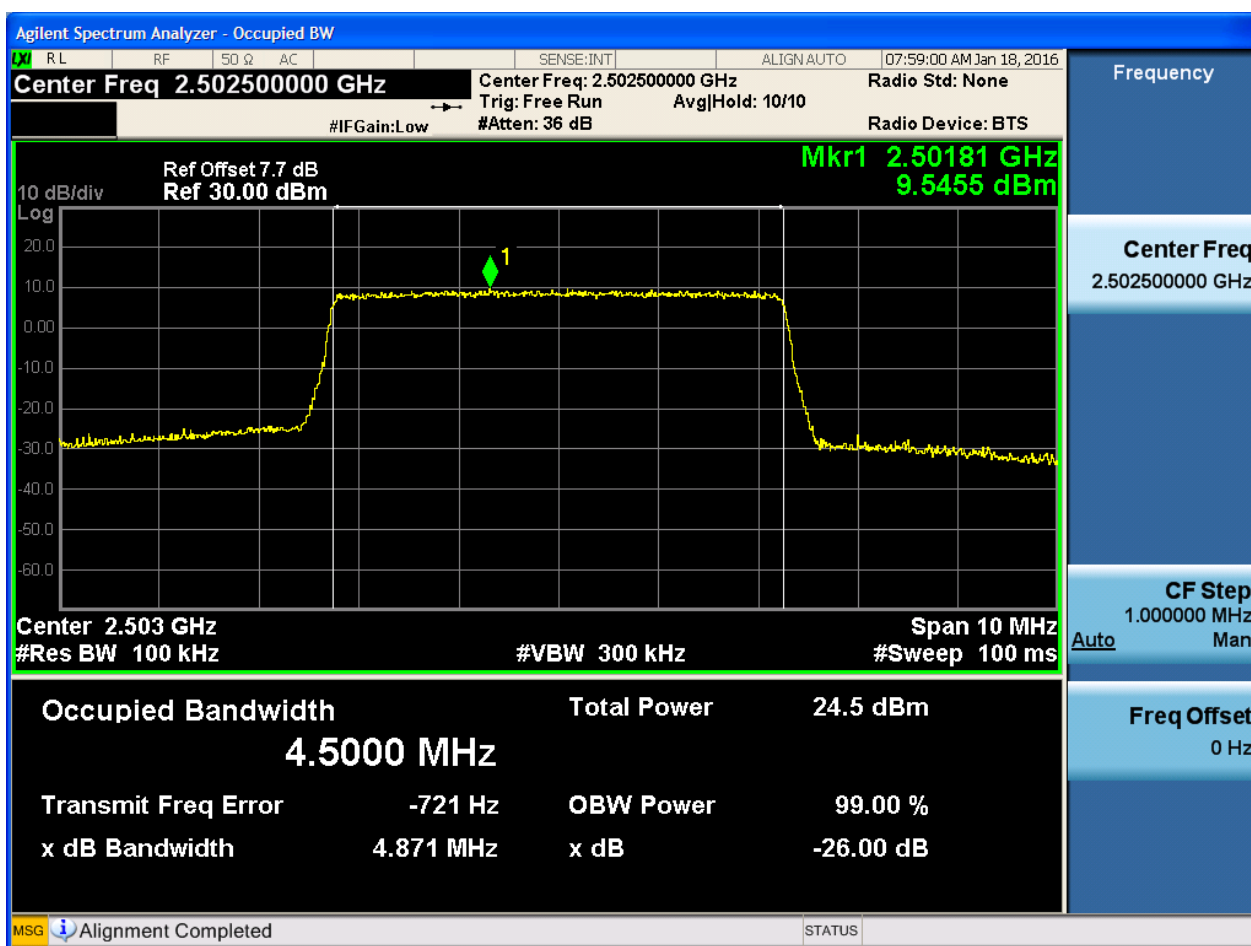
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

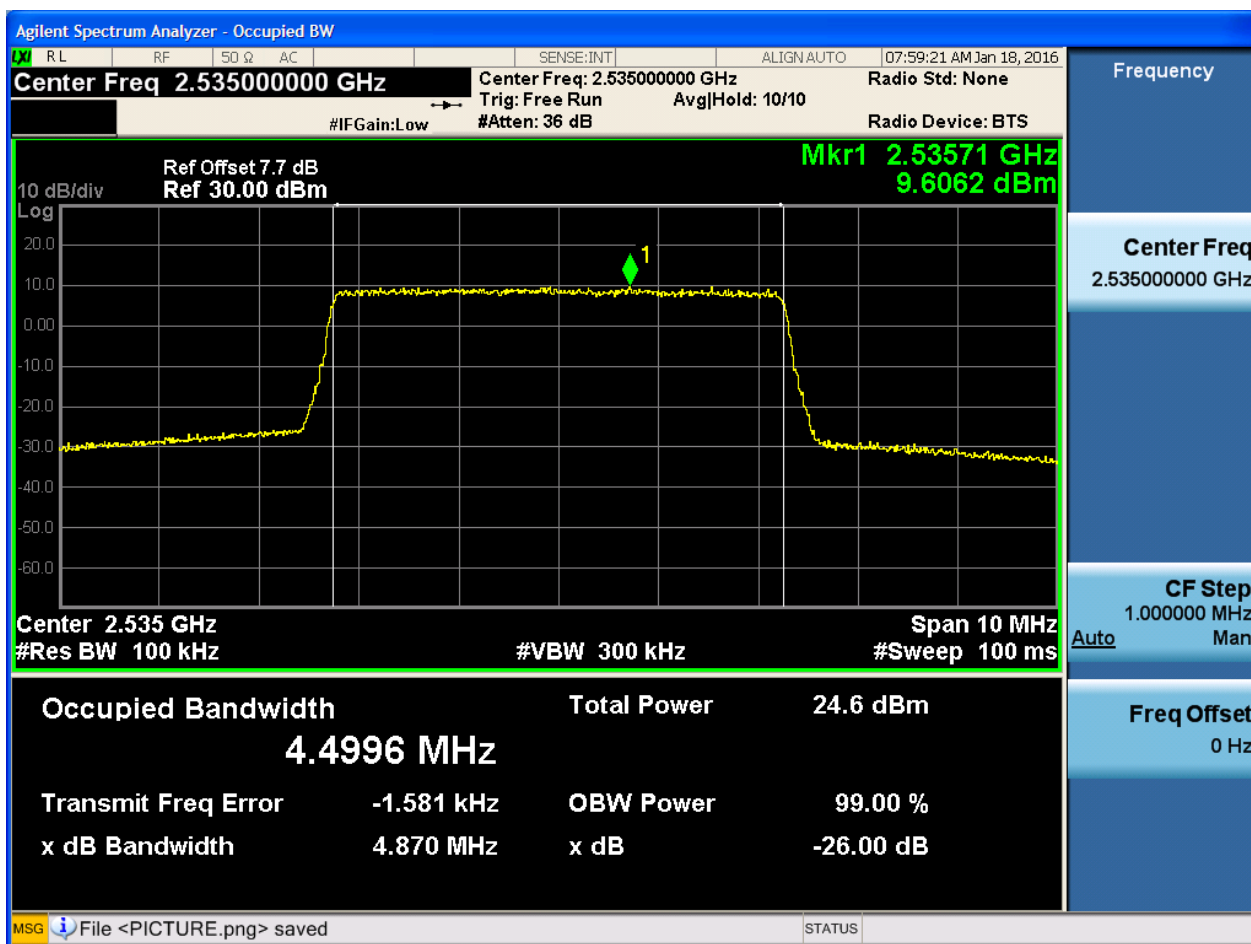
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB25#0



4.1.1.1 .1.2 Test Channel = MCH

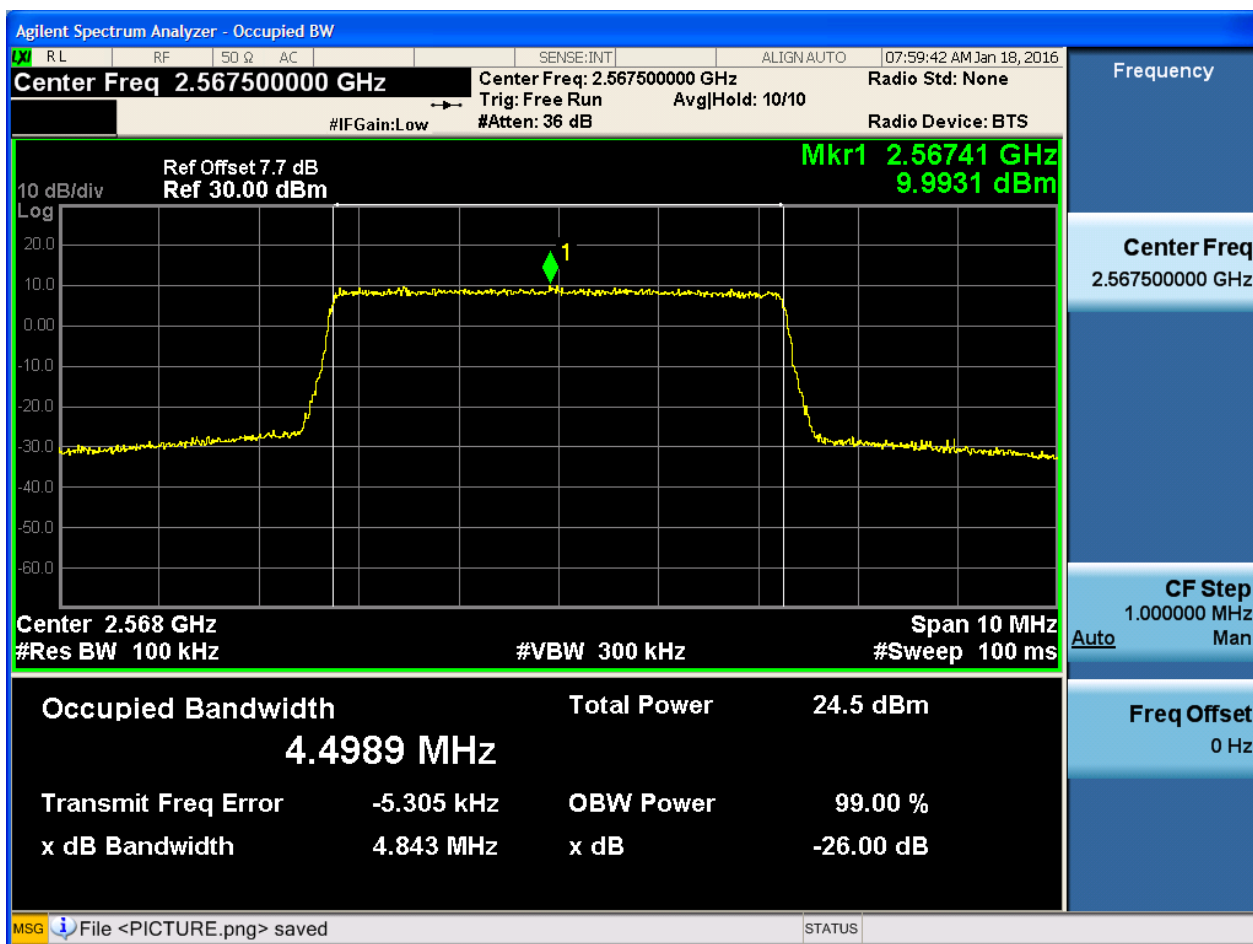
4.1.1.1 .1.2.1 Test RB = RB25#0





4.1.1.1 .1.3 Test Channel = HCH

4.1.1.1 .1.3.1 Test RB = RB25#0

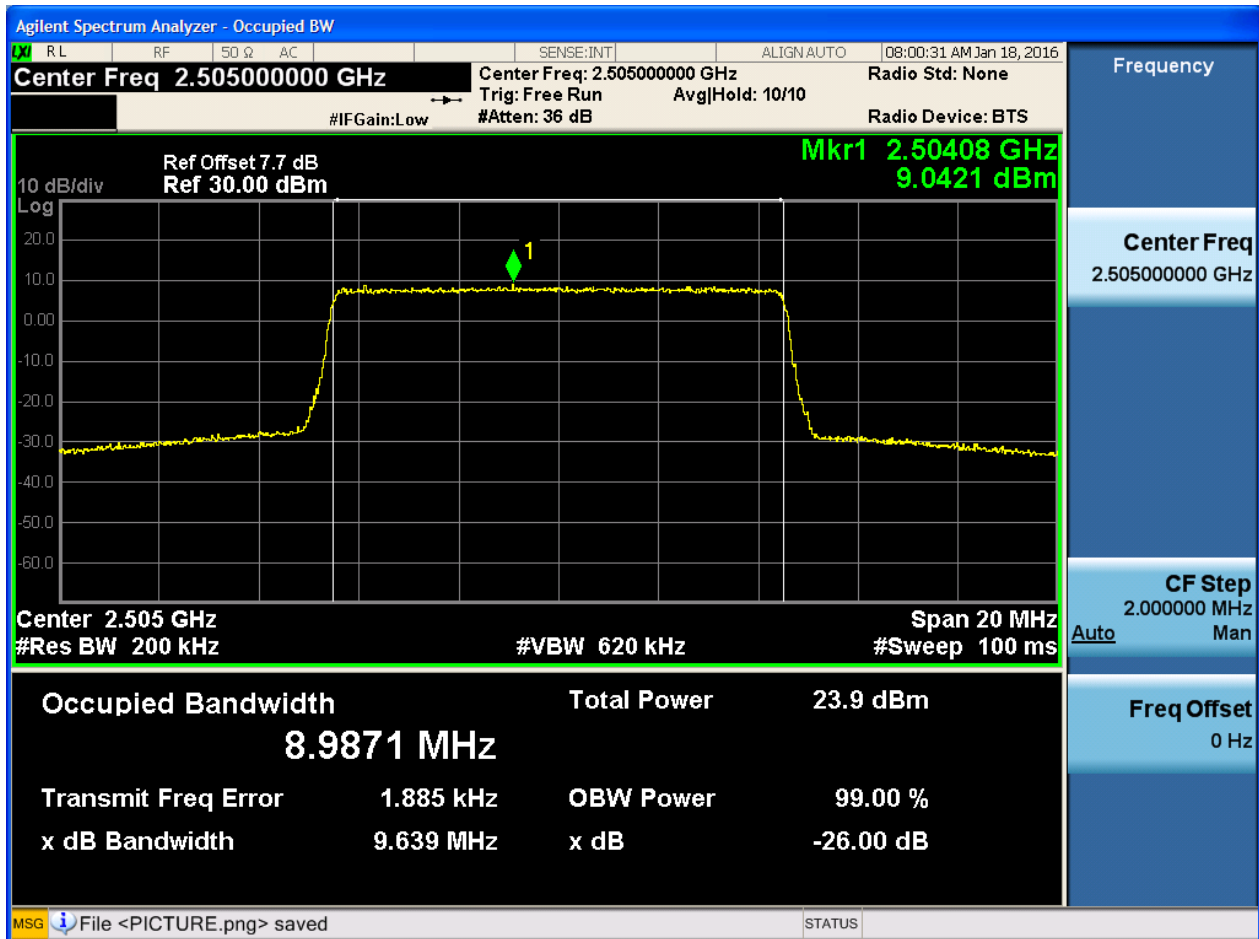




4.1.1.1.2 Test Bandwidth = 10

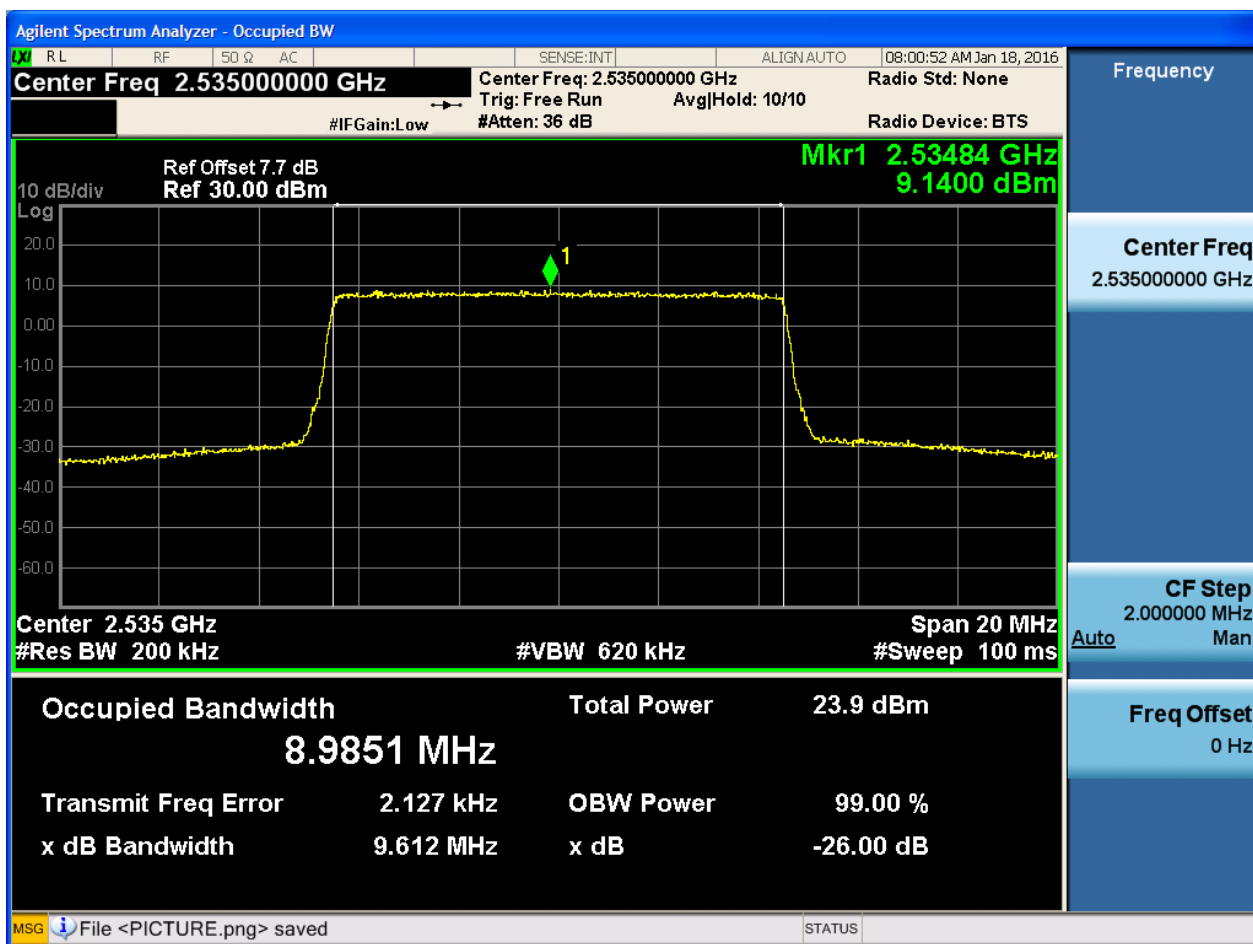
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



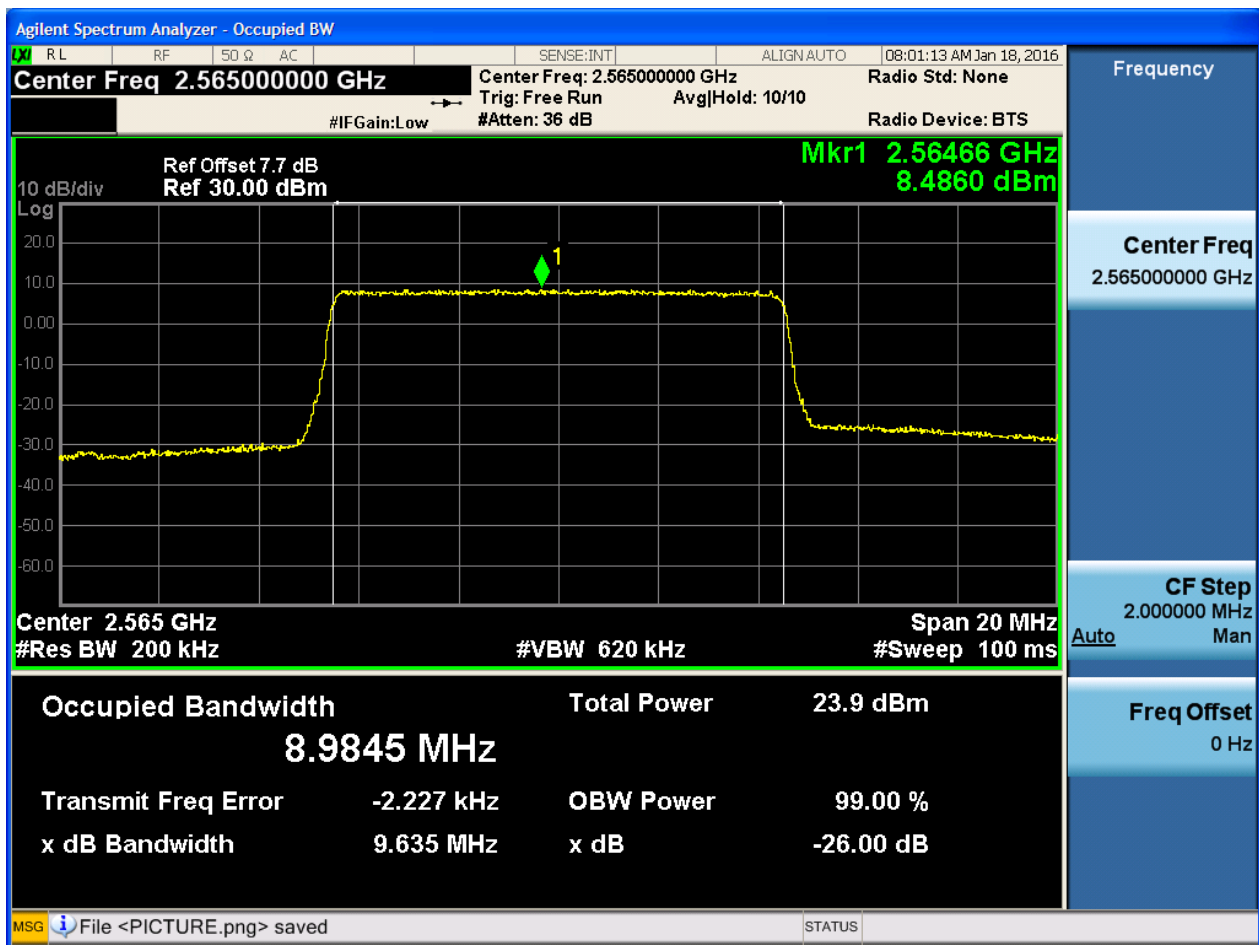
4.1.1.1 .2.2 Test Channel = MCH

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

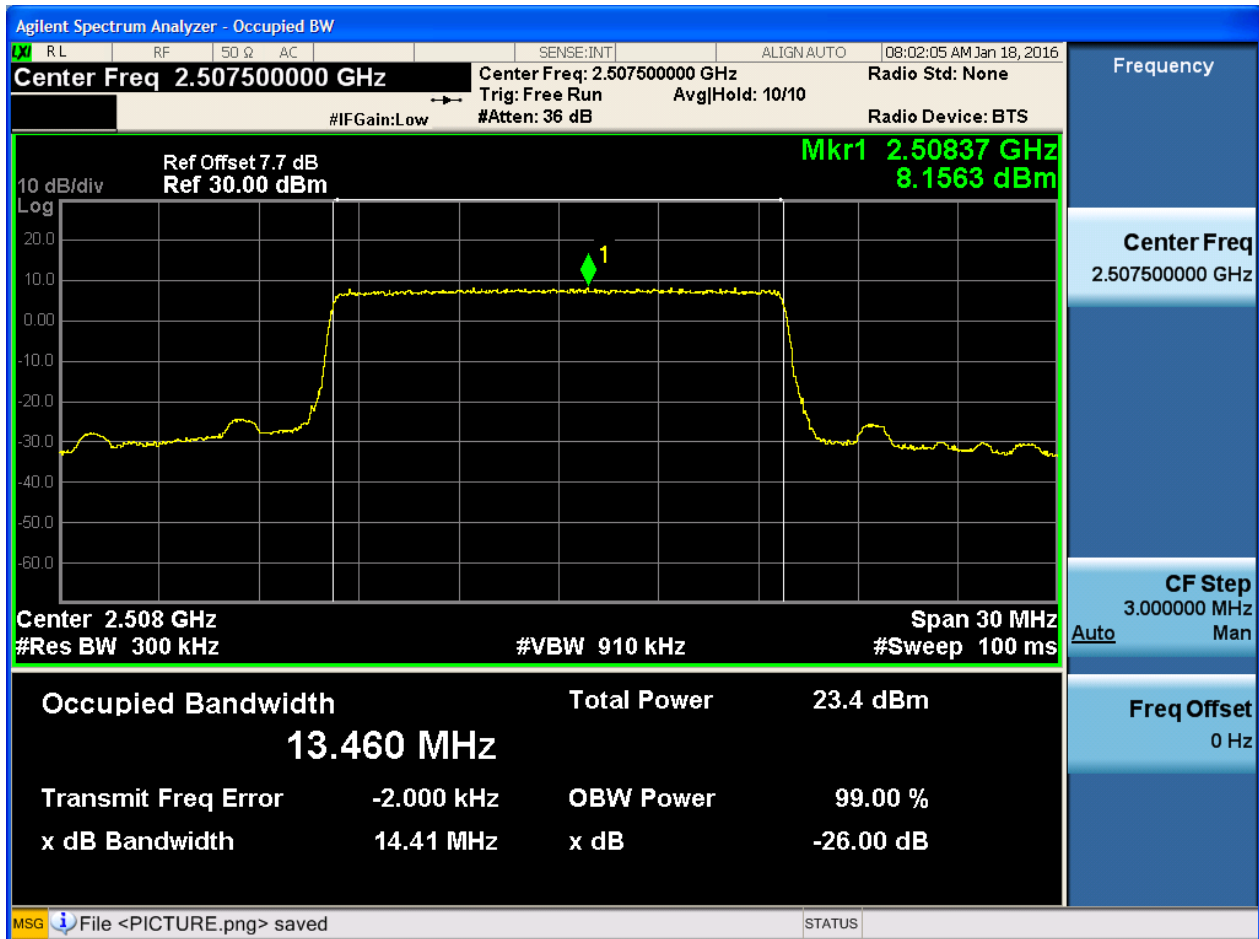




4.1.1.1.3 Test Bandwidth = 15

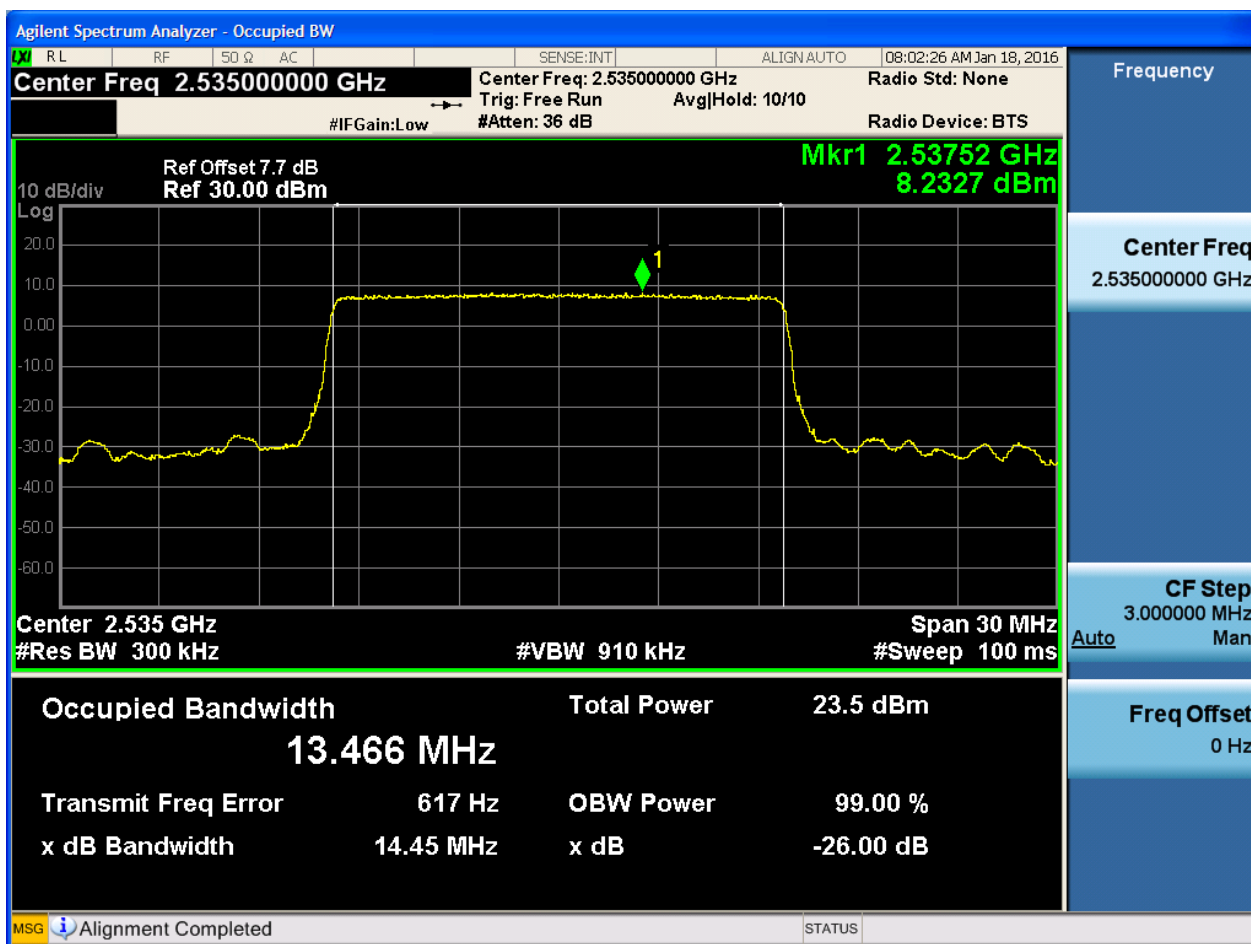
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



4.1.1.1 .3.2 Test Channel = MCH

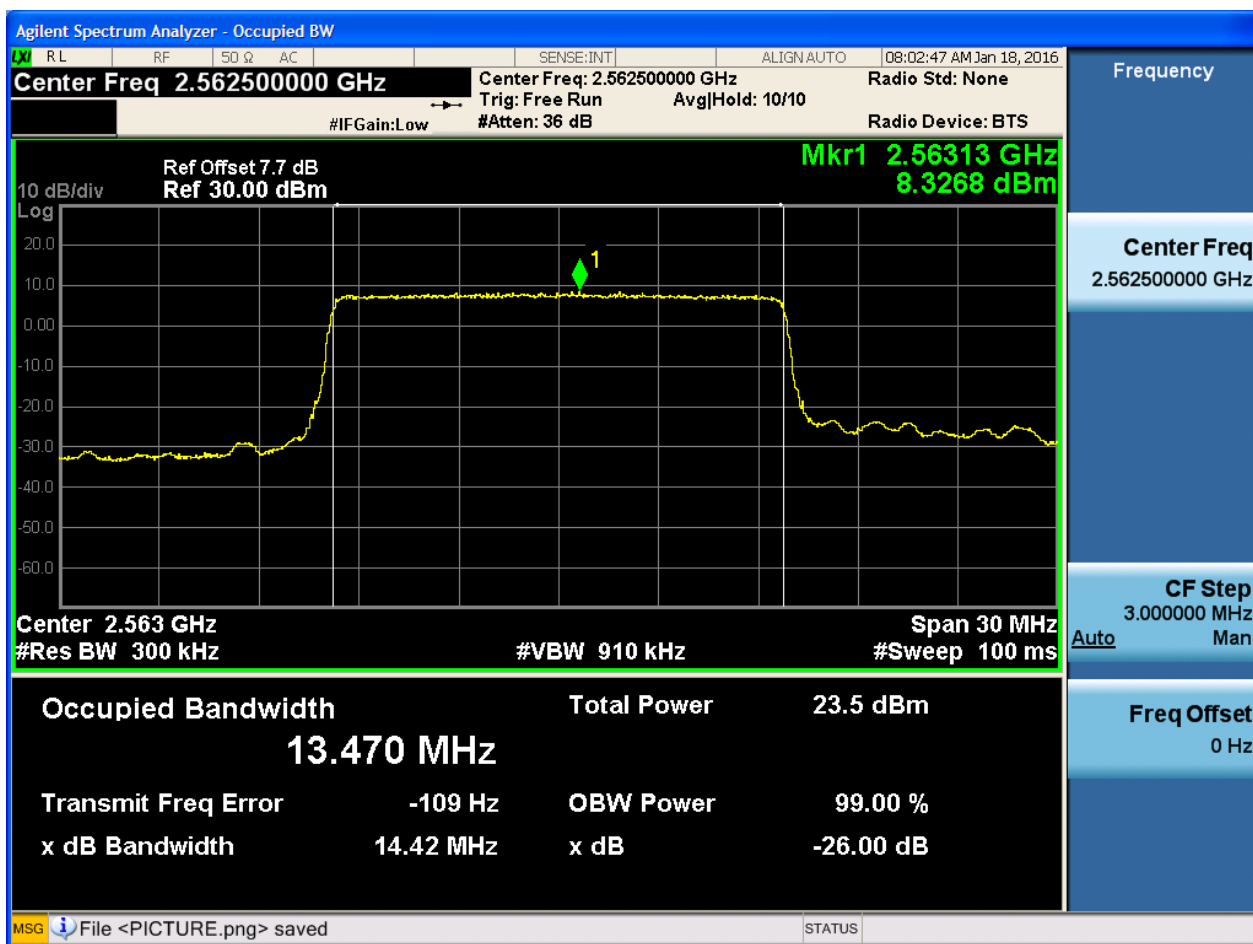
4.1.1.1 .3.2.1 Test RB = RB75#0





4.1.1.1 .3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

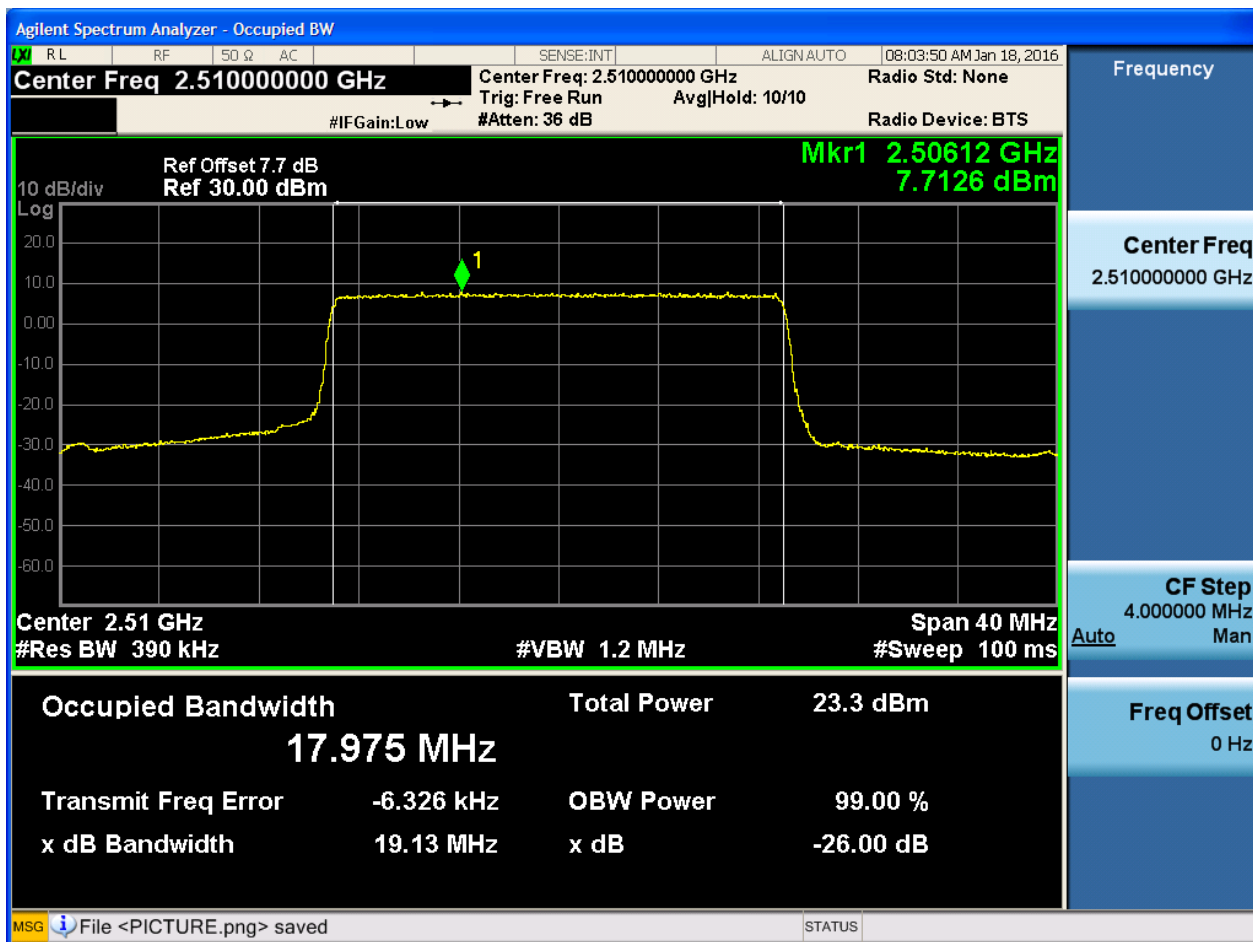




4.1.1.1.4 Test Bandwidth = 20

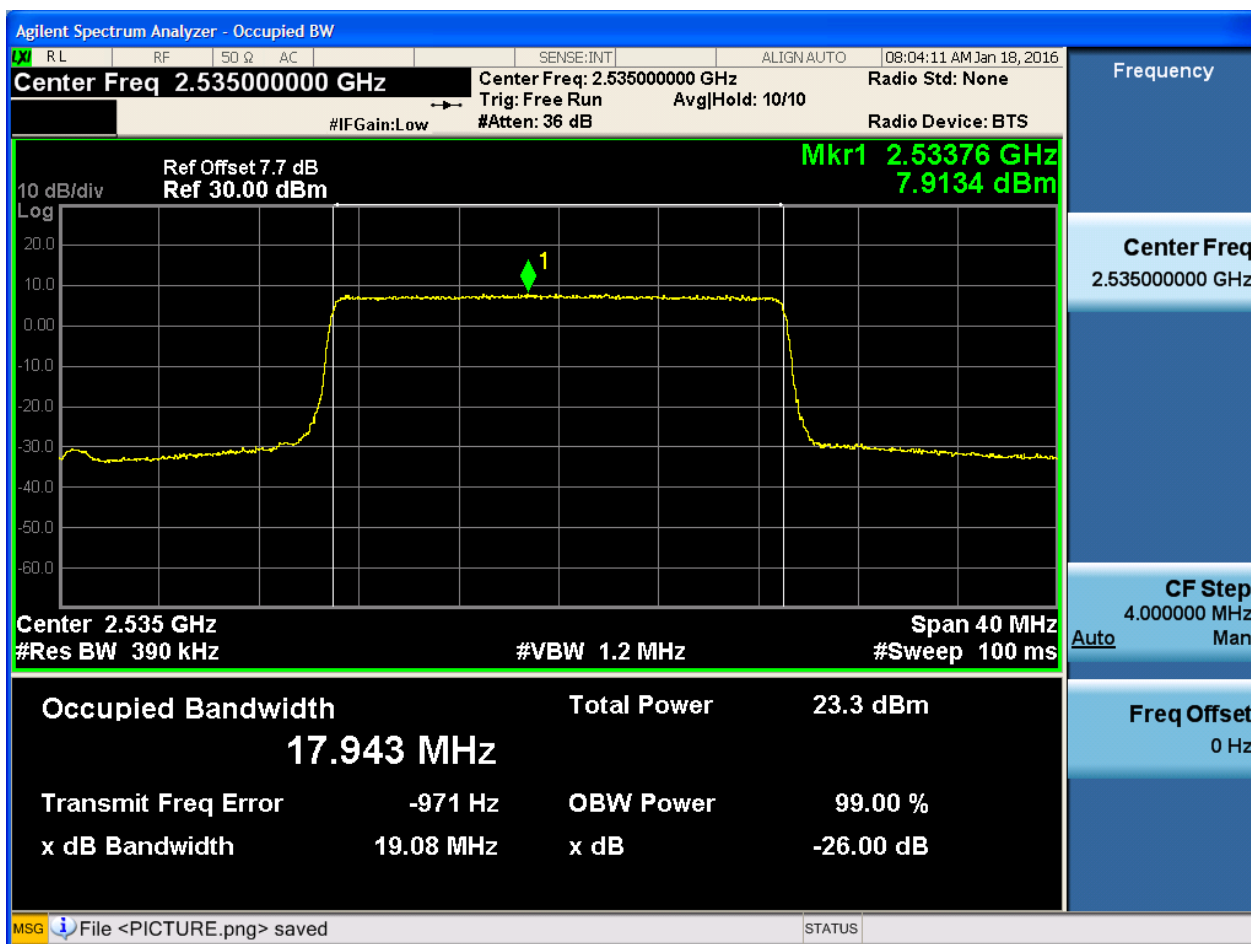
4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0



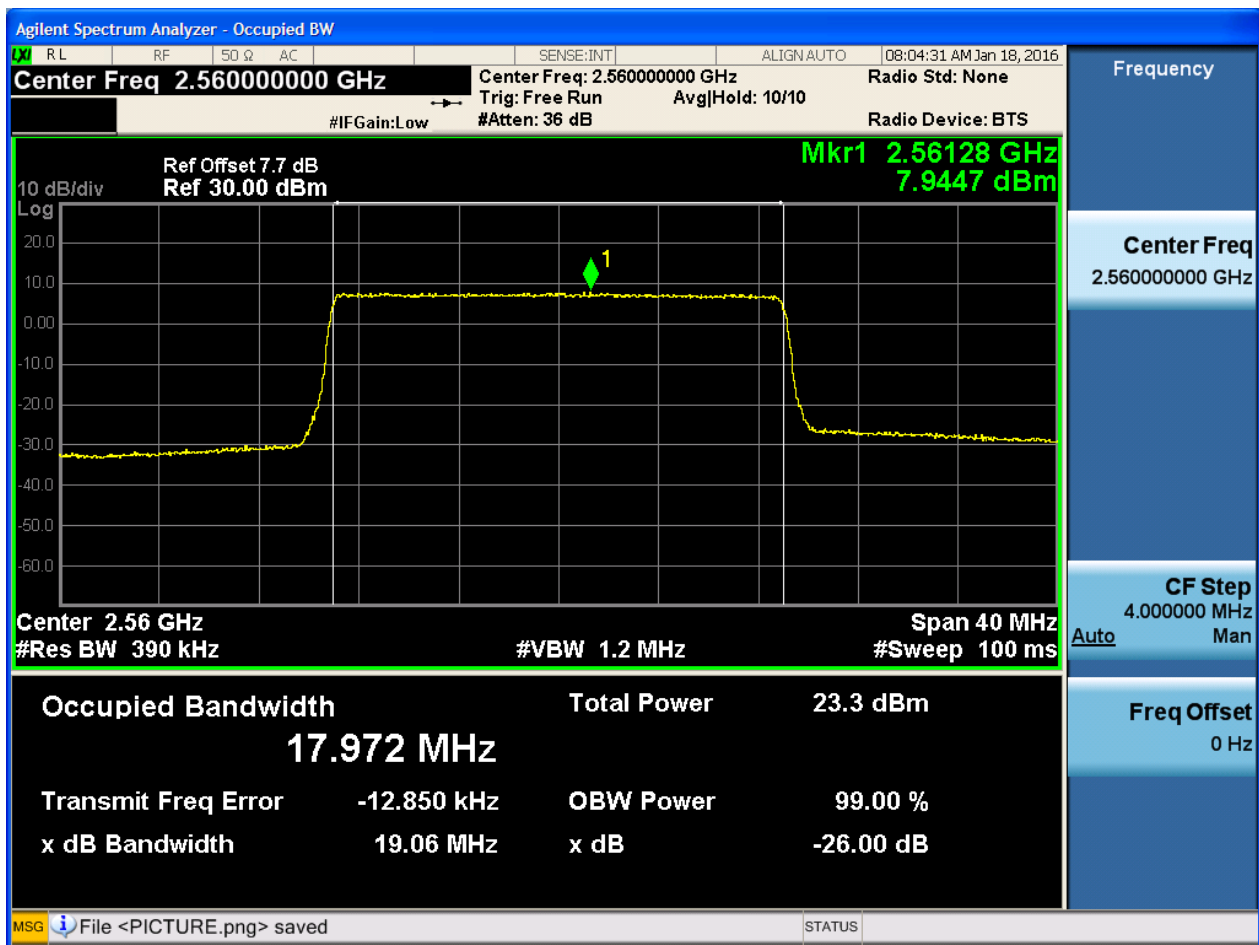
4.1.1.1.4.2 Test Channel = MCH

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



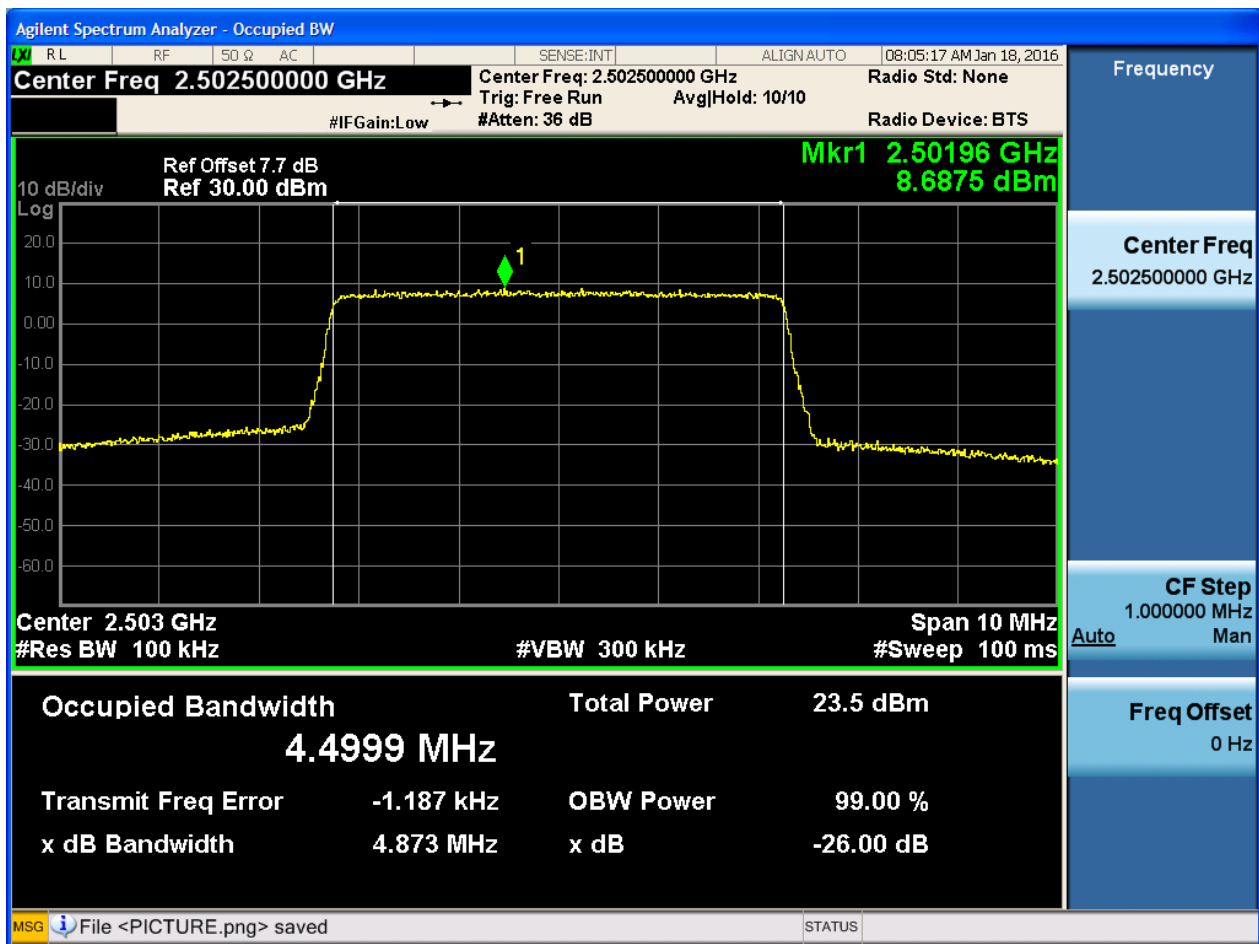


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

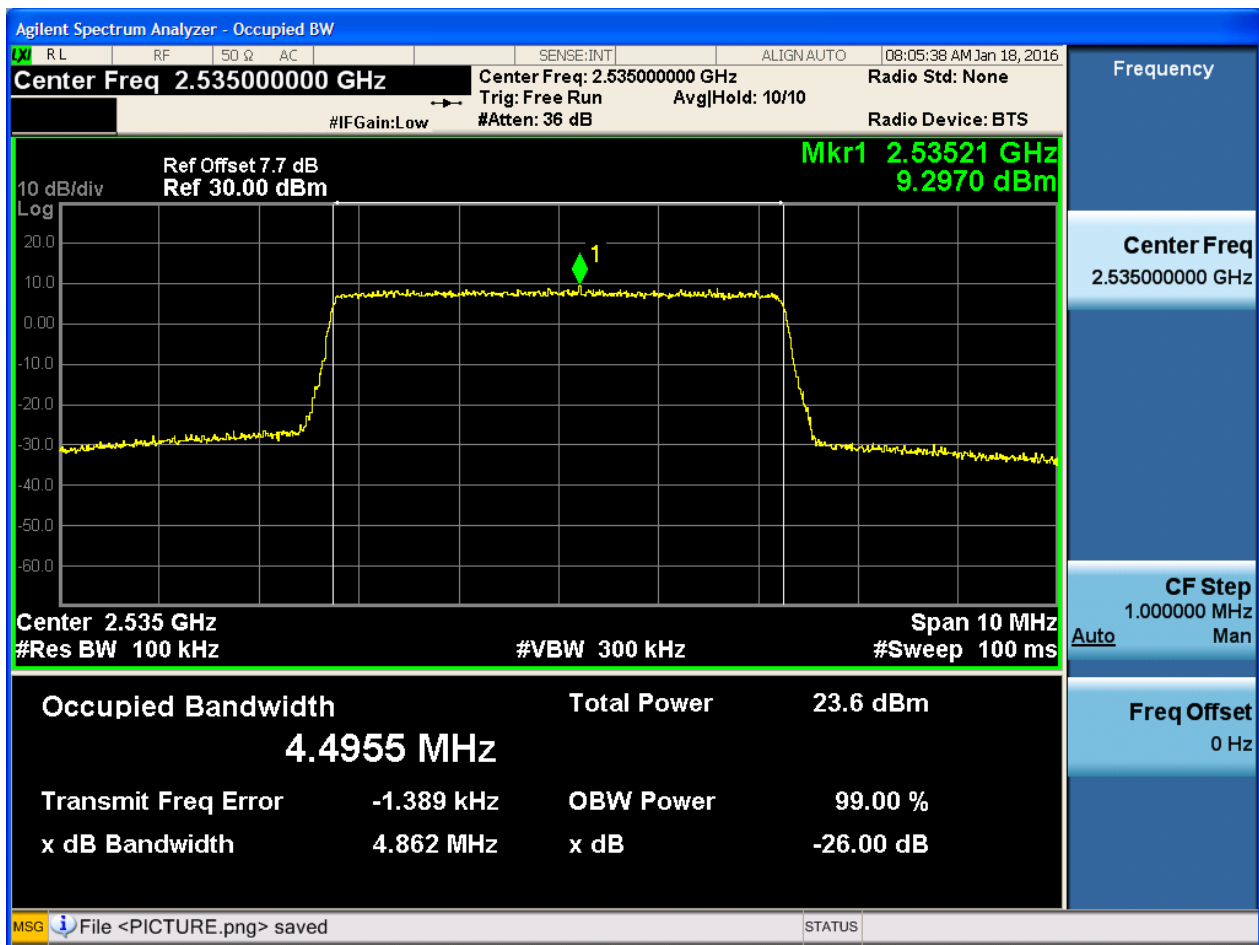
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

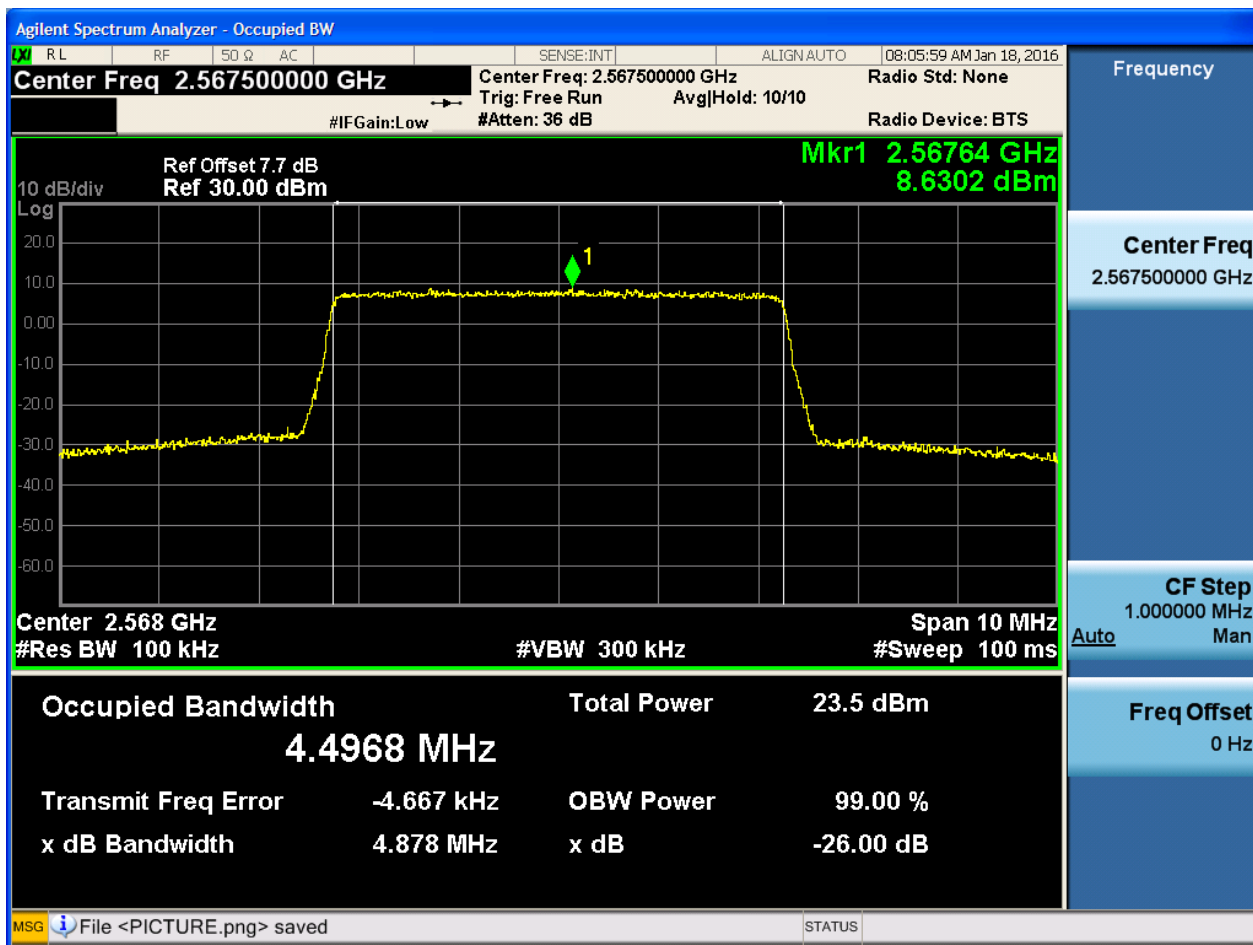
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

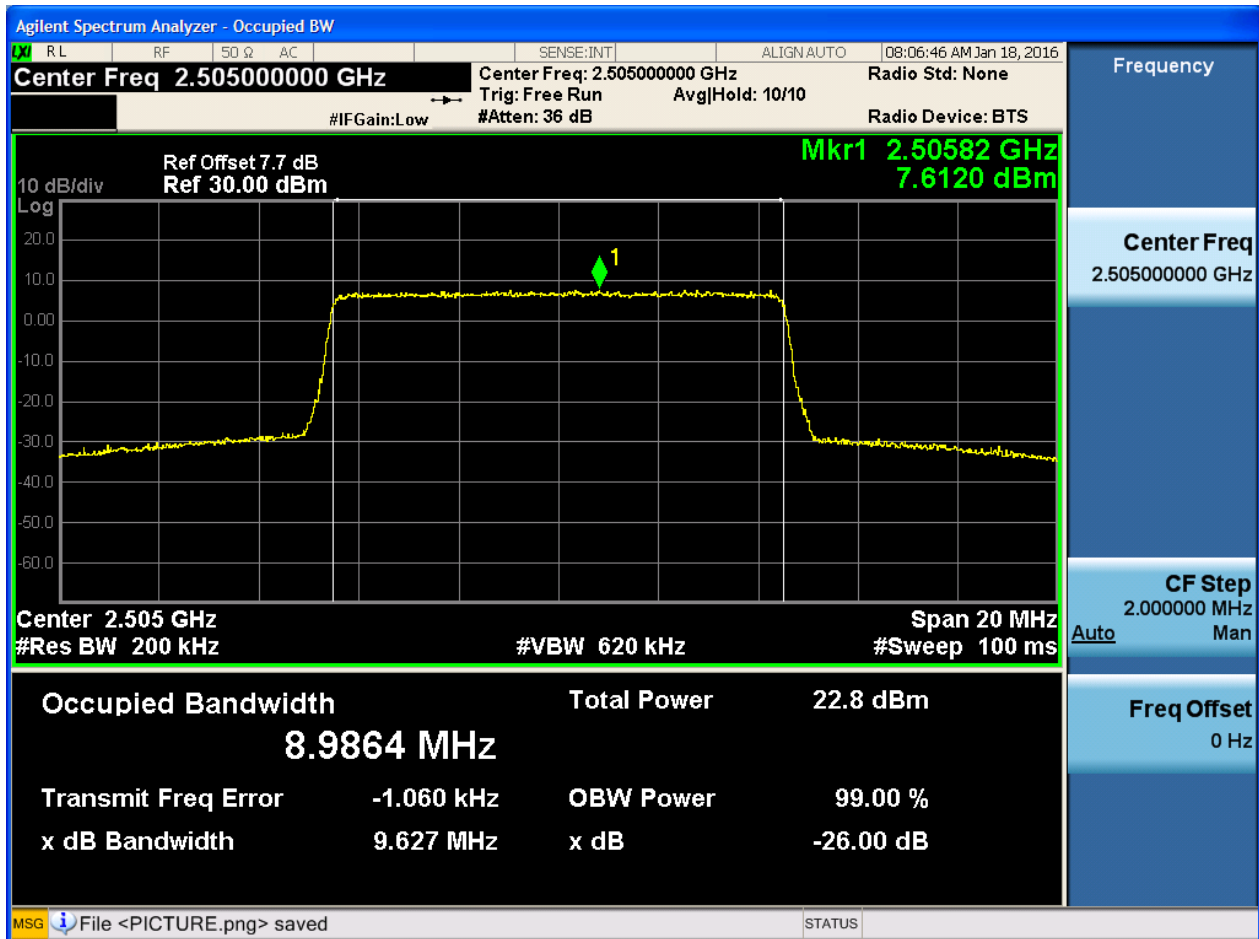




4.1.1.2.2 Test Bandwidth = 10

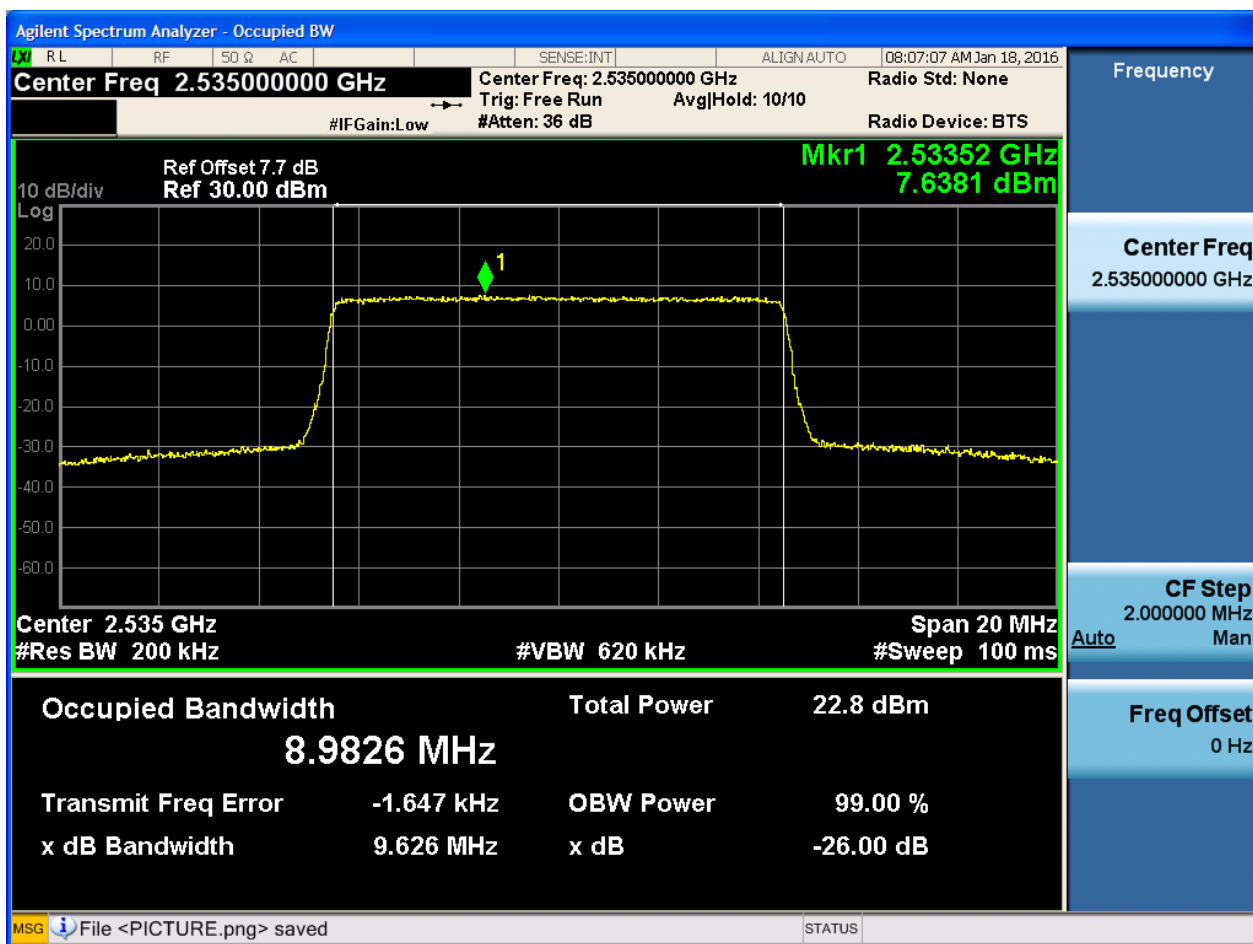
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB50#0



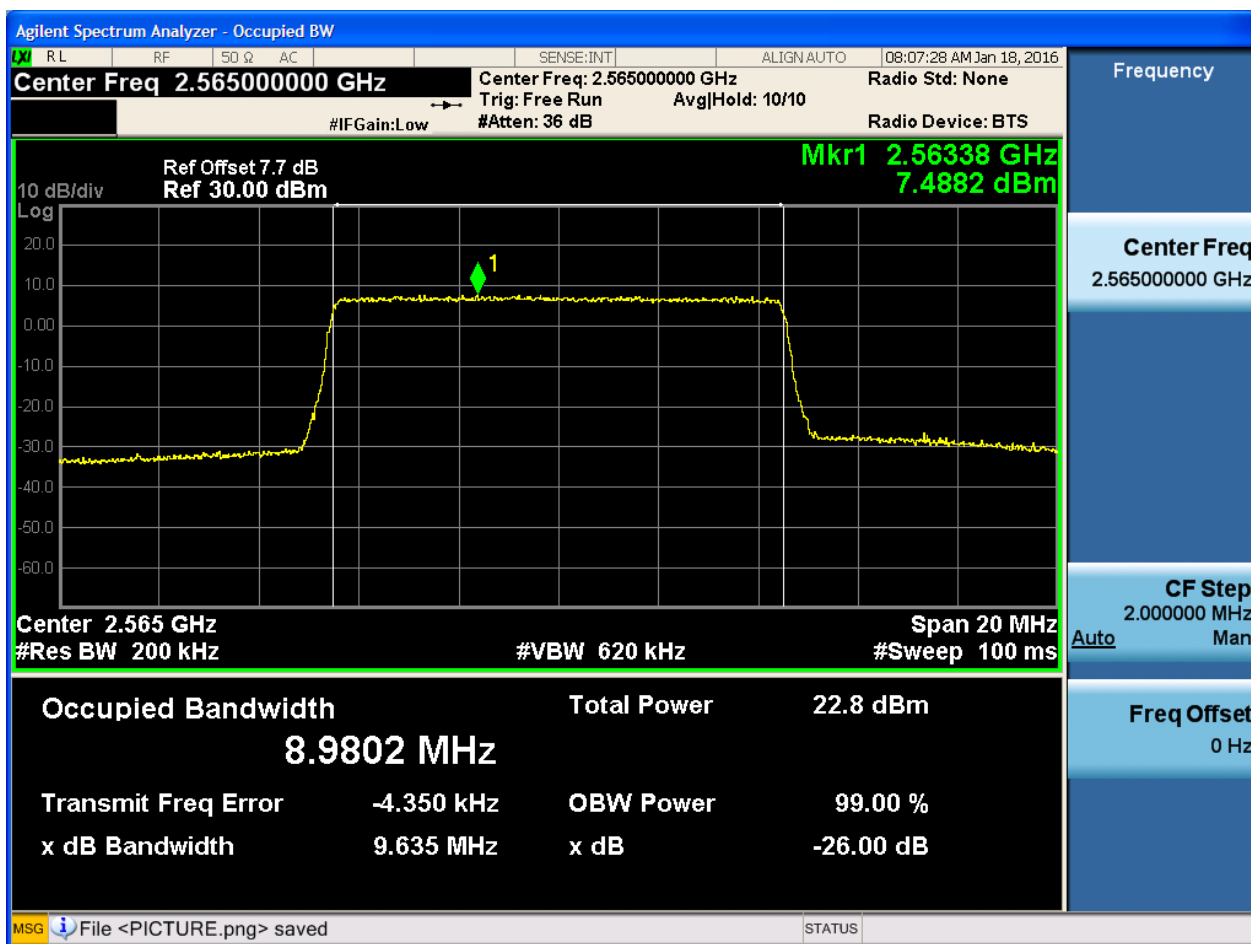
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.1 Test RB = RB50#0



4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

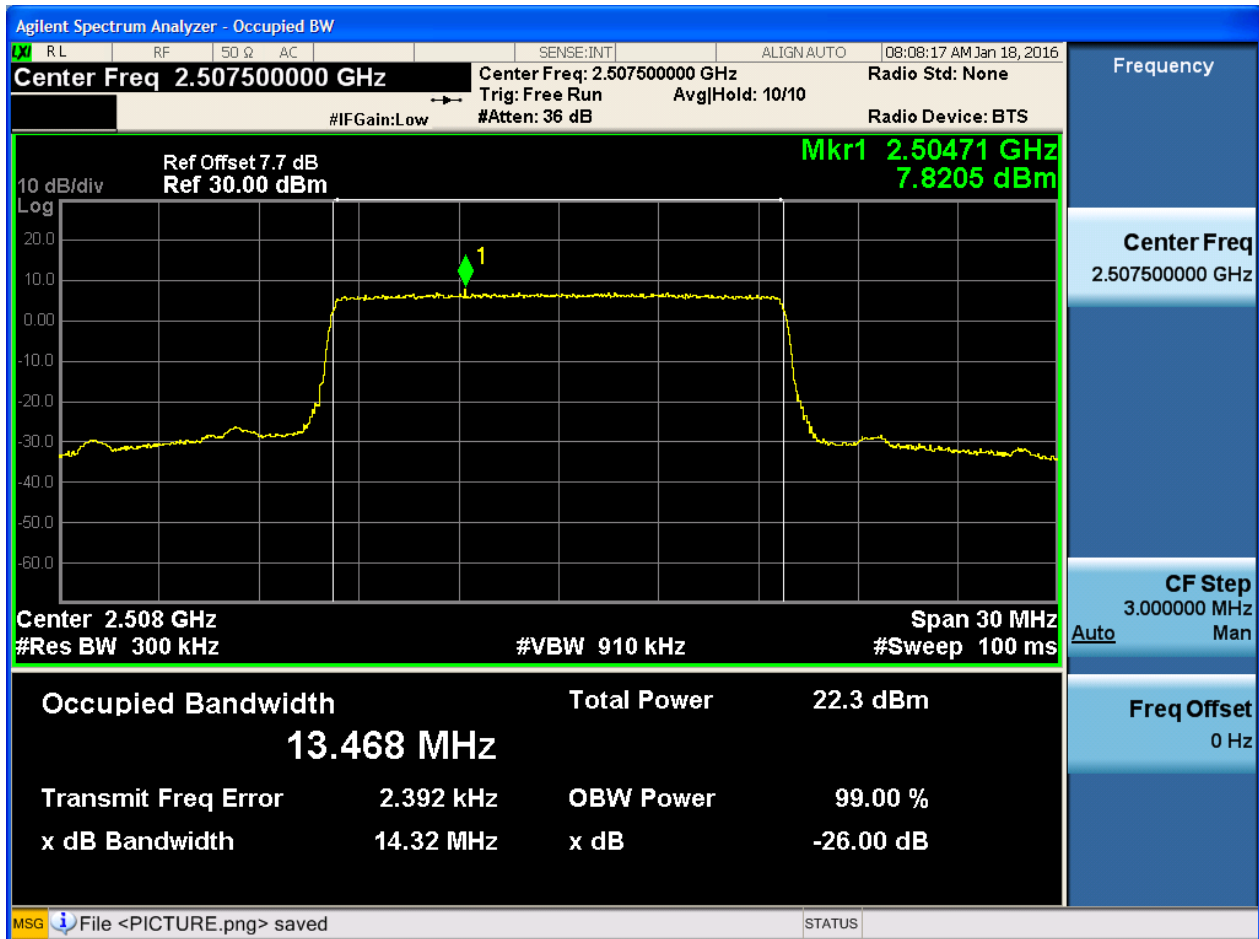




4.1.1.2.3 Test Bandwidth = 15

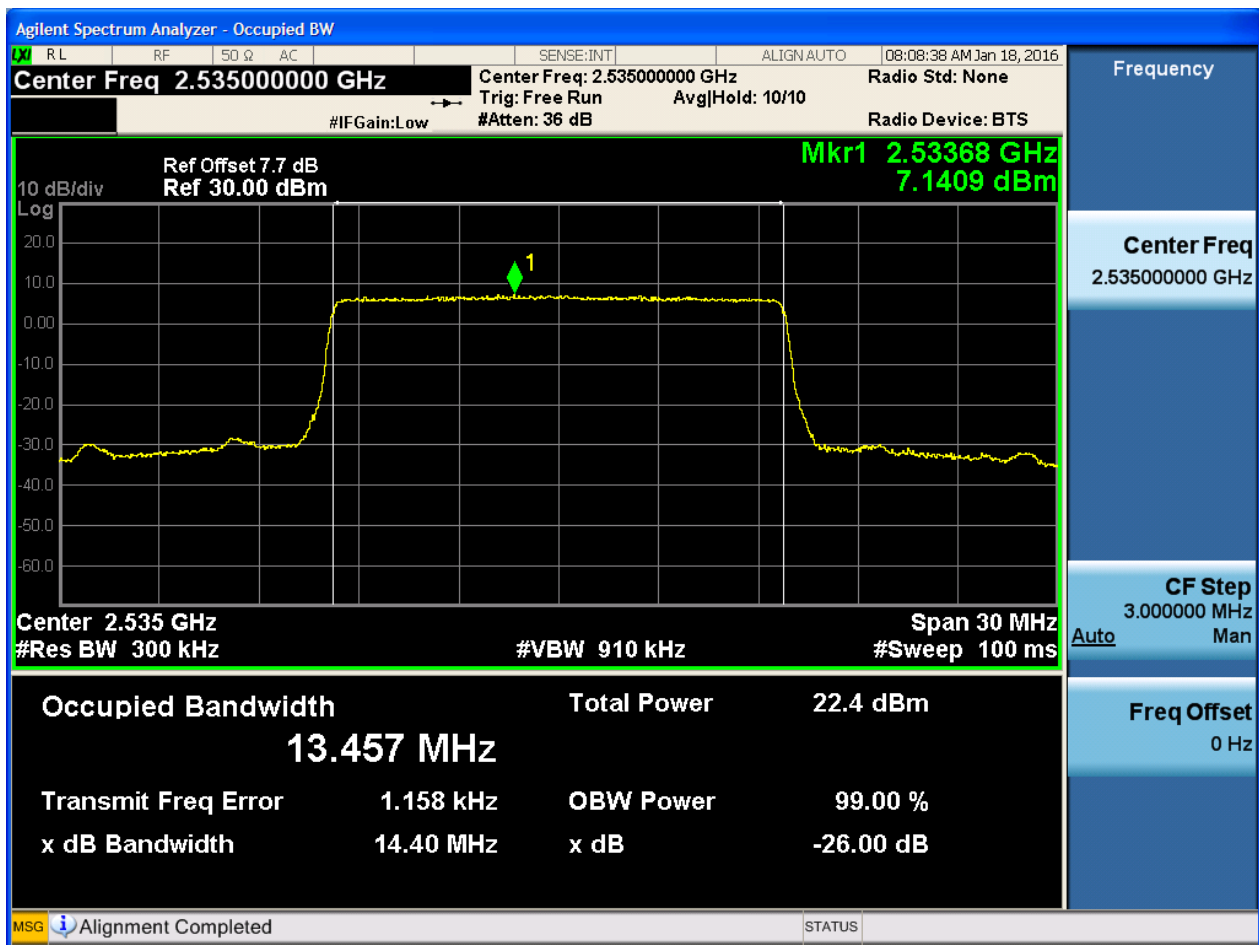
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



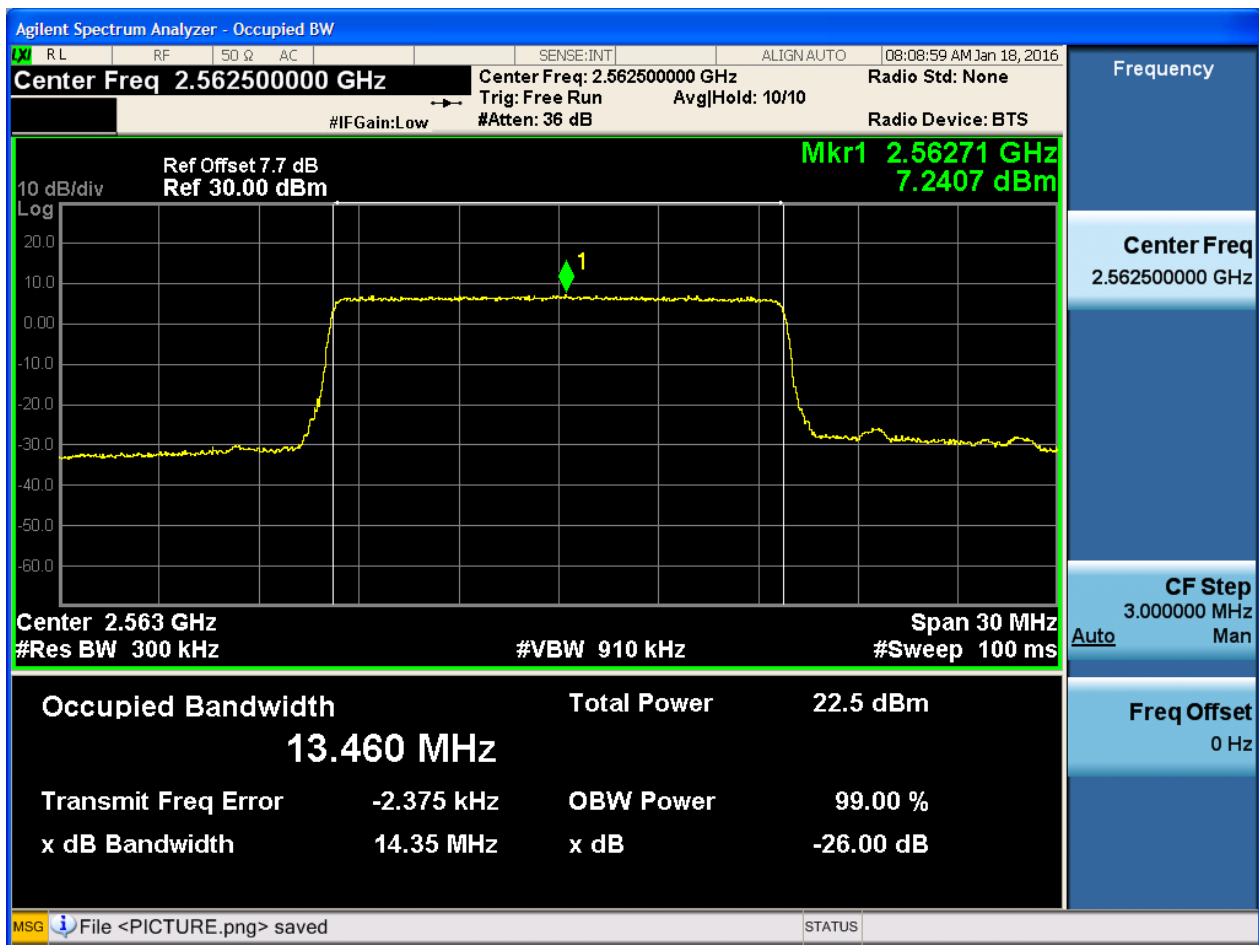
4.1.1.2.3.2 Test Channel = MCH

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

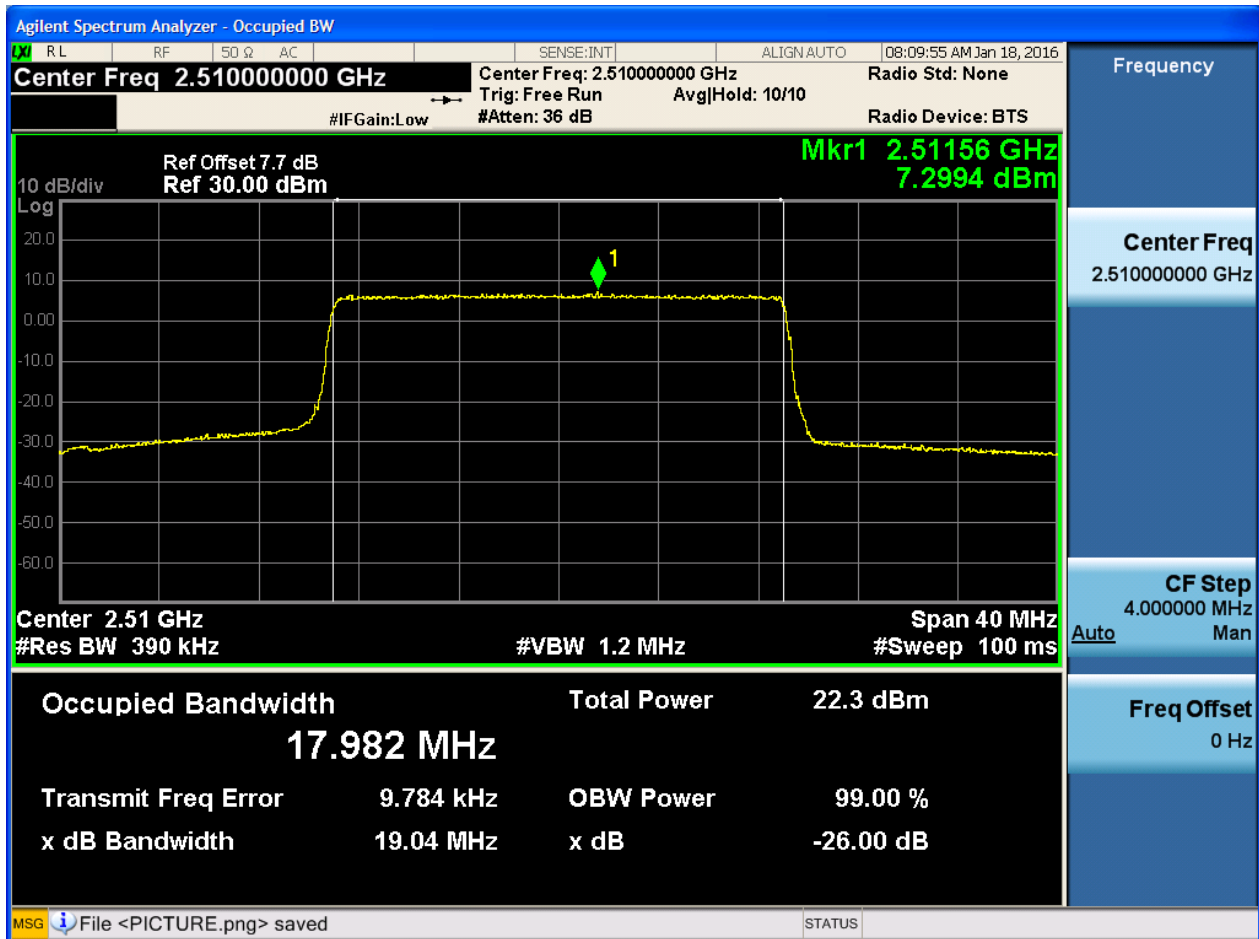




4.1.1.2.4 Test Bandwidth = 20

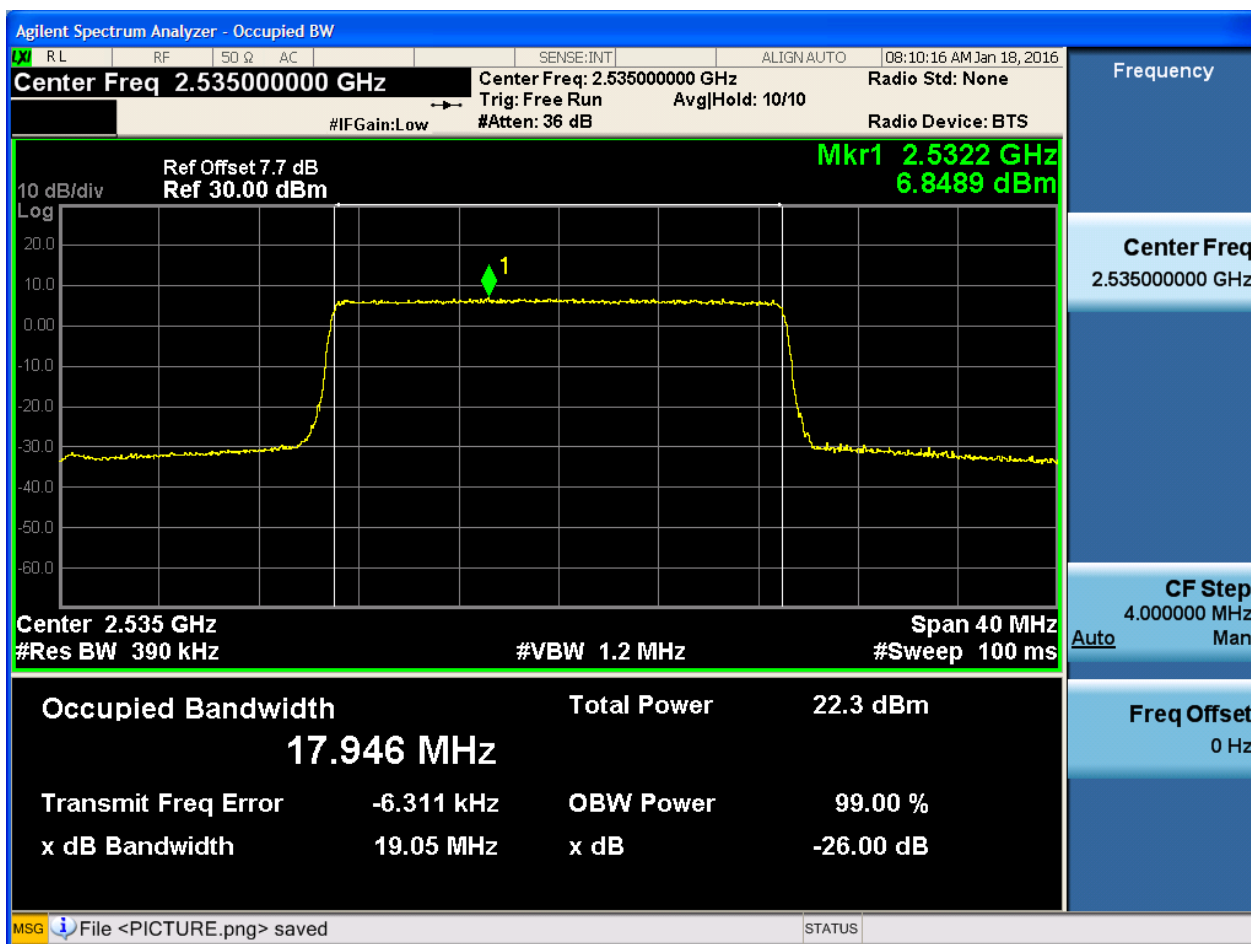
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



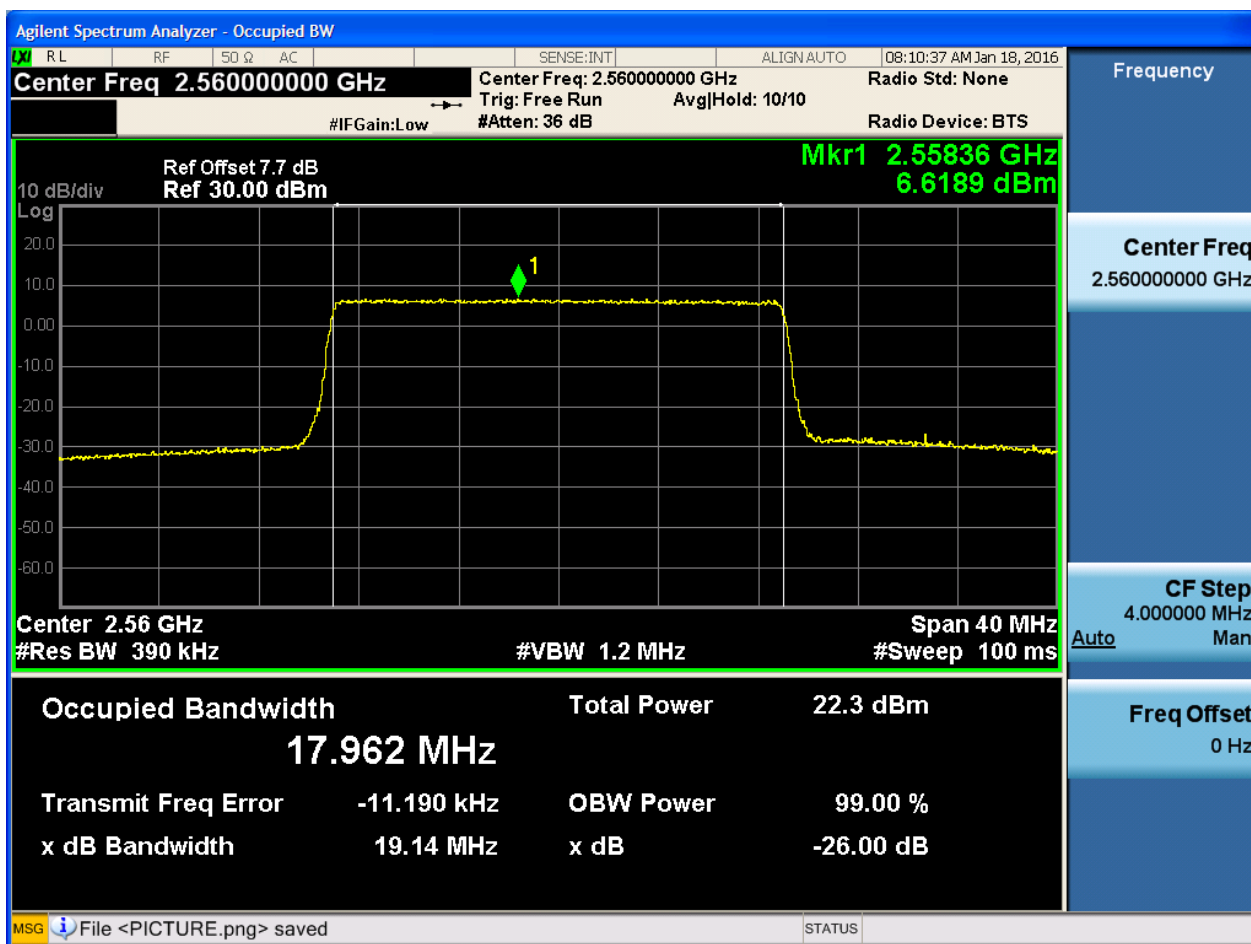
4.1.1.2.4.2 Test Channel = MCH

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



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

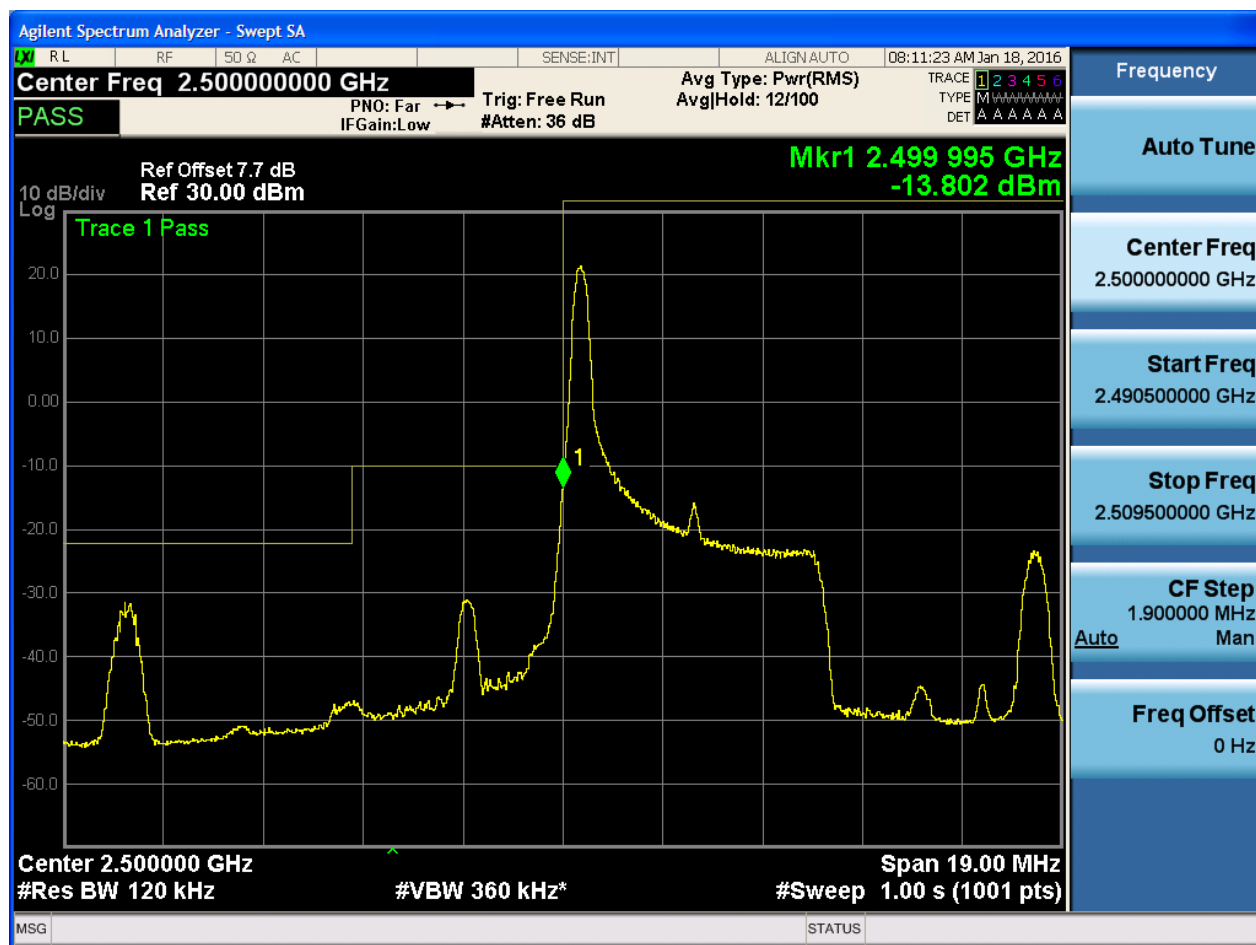
5.1.1 Test Band = BAND7

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 7.7 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-33.294 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

The image shows a screenshot of an Agilent Spectrum Analyzer in swept mode. The main display is a log-frequency plot with a yellow trace. The x-axis represents frequency, ranging from 2.4905 GHz to 2.5095 GHz, with a center frequency of 2.5000 GHz. The y-axis represents power in dBm, ranging from -60.0 to 20.0. A prominent peak is visible at 2.499995 GHz, marked with a green diamond and labeled 'Mkr1 2.499 995 GHz -33.294 dBm'. The trace is labeled 'Trace 1 Pass'. The analyzer settings include a resolution bandwidth of 120 kHz, a video bandwidth of 360 kHz, and a sweep time of 1.00 s. The reference level is set to 30.00 dBm with a 7.7 dB offset. The status bar at the bottom shows 'MSG' and 'STATUS'.



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-25.943 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

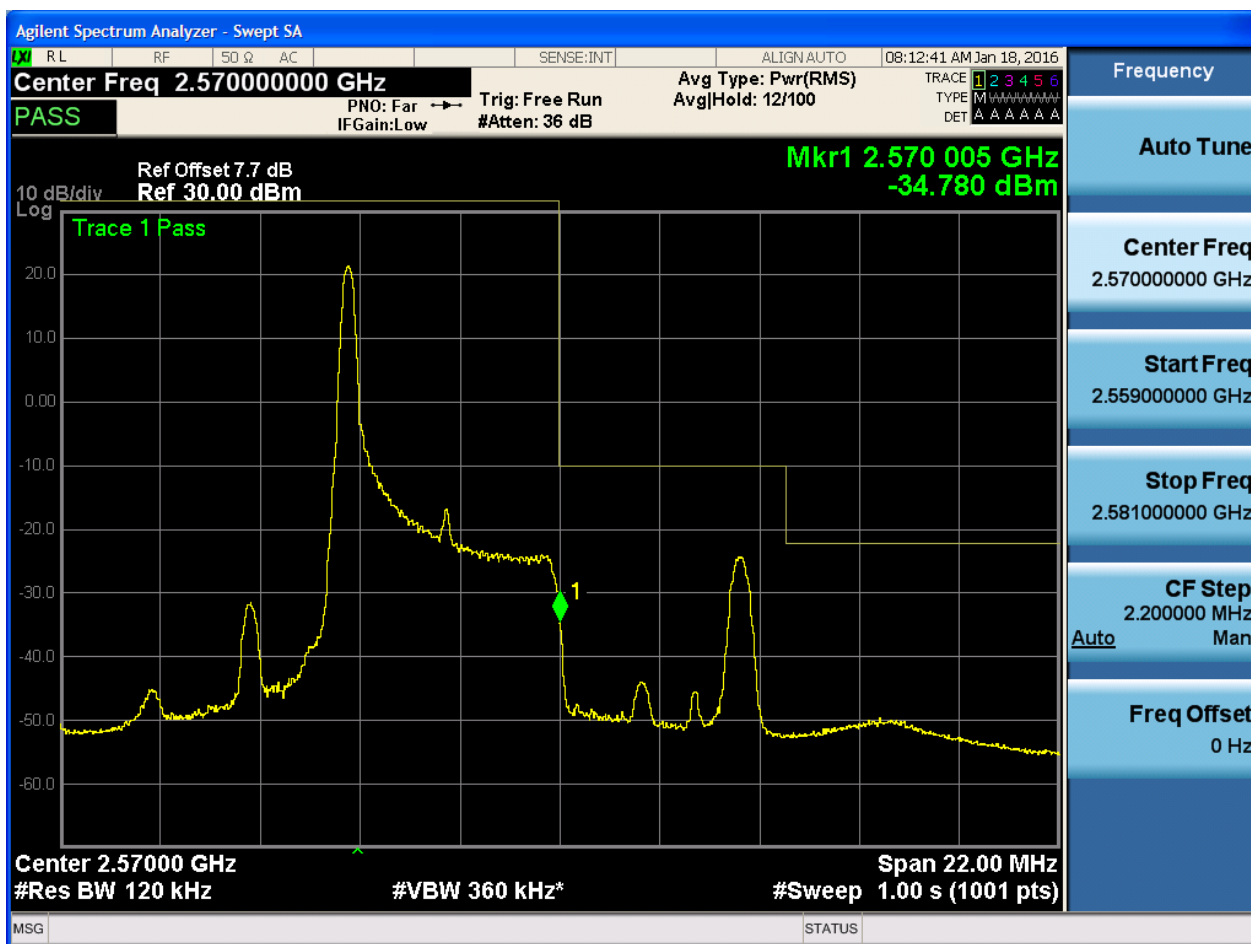


5.1.1.1.1.4 Test RB = RB25#0



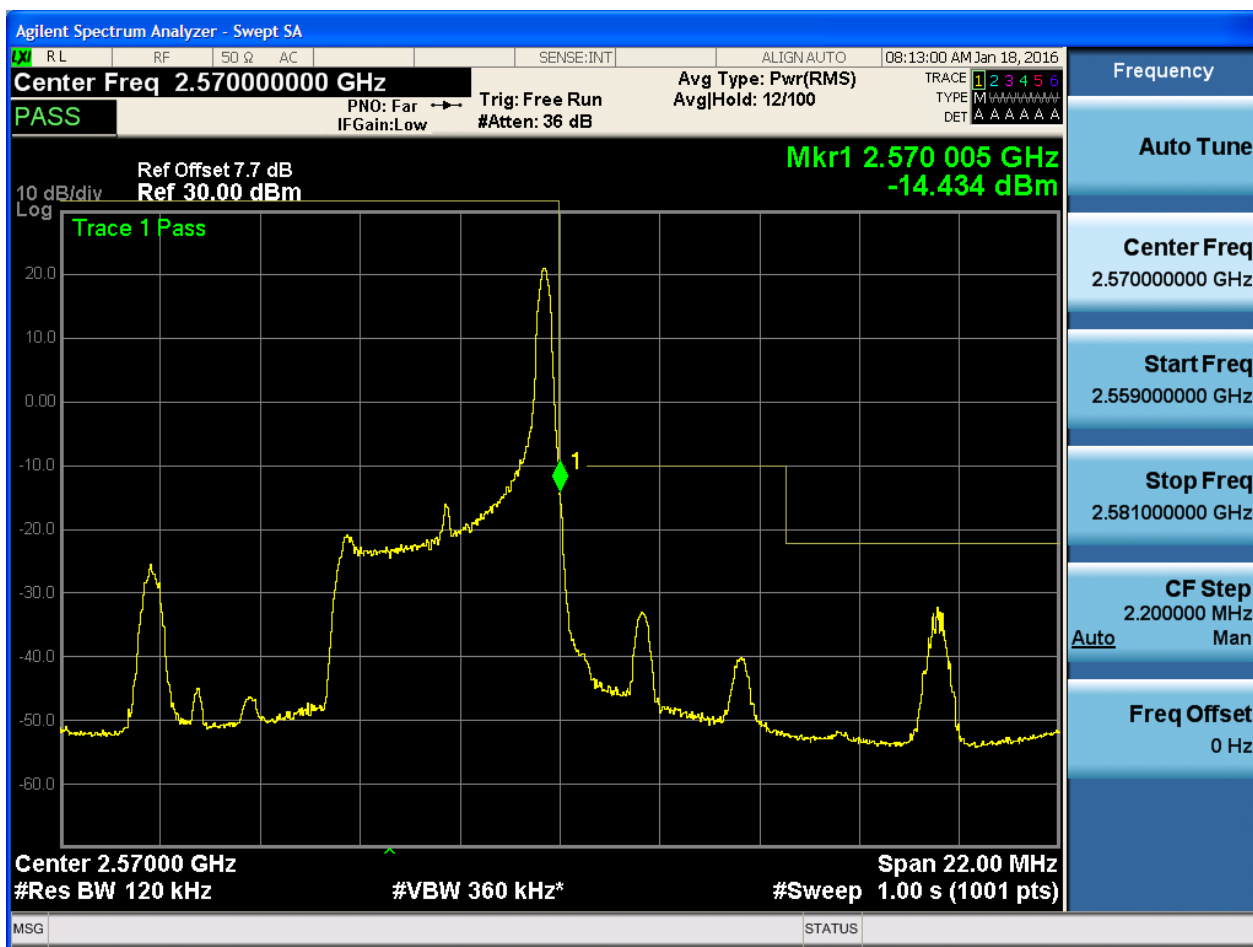
5.1.1.1.1.2 Test Channel = HCH

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





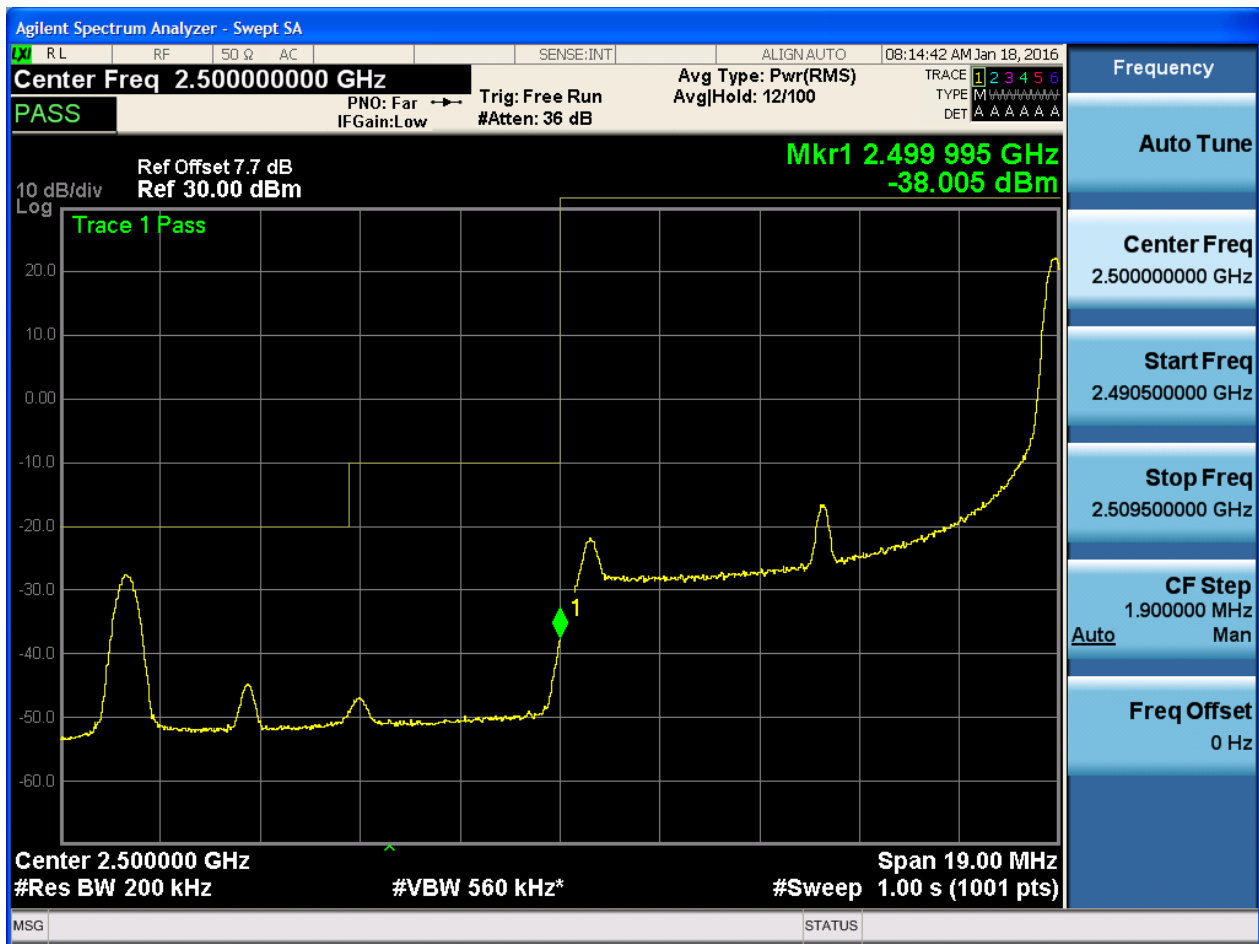
5.1.1.1.2.4 Test RB = RB25#0







5.1.1.1.2.1.2 Test RB = RB1#49





5.1.1.1.2.1.3 Test RB = RB25#13



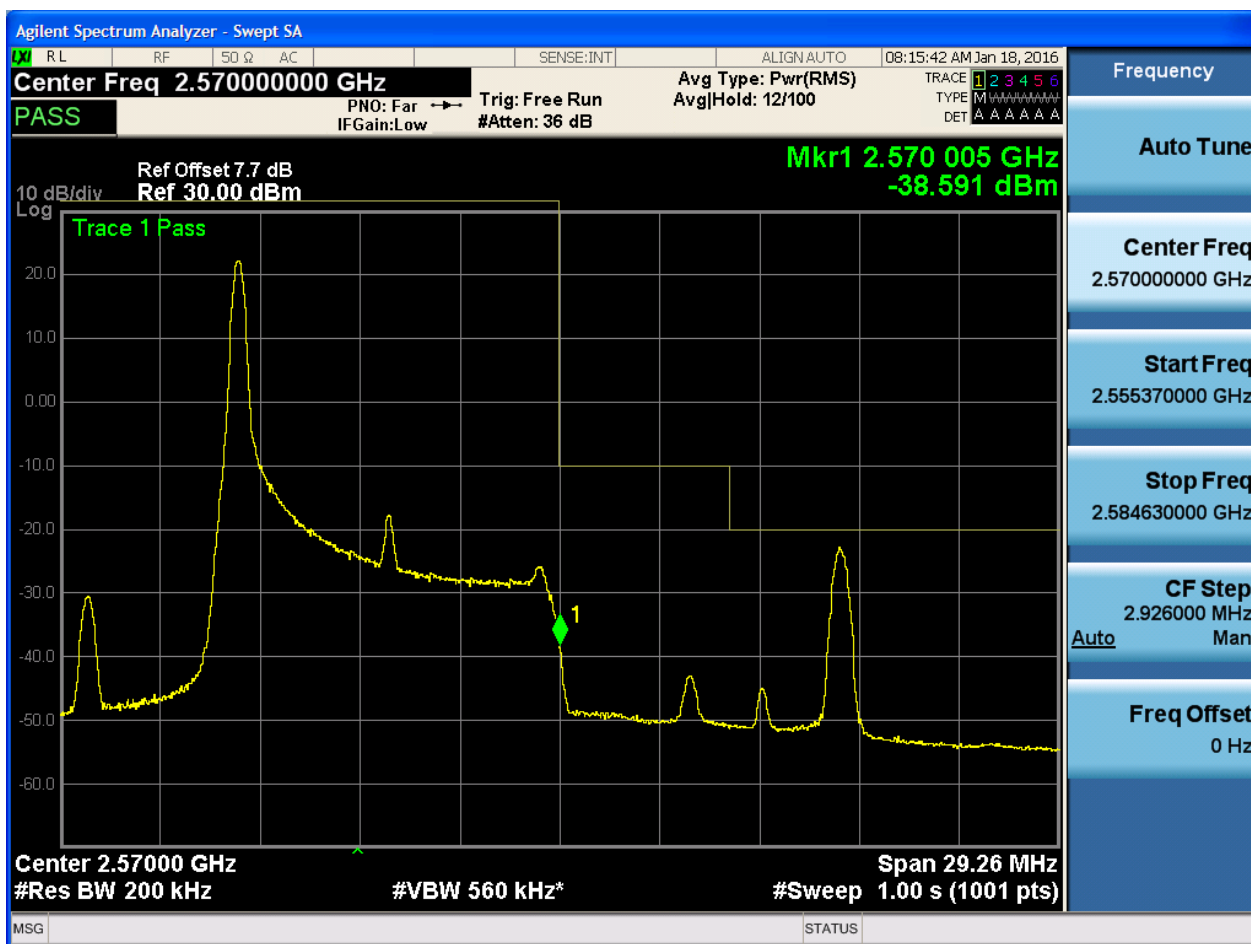


5.1.1.1.2.1.4 Test RB = RB50#0



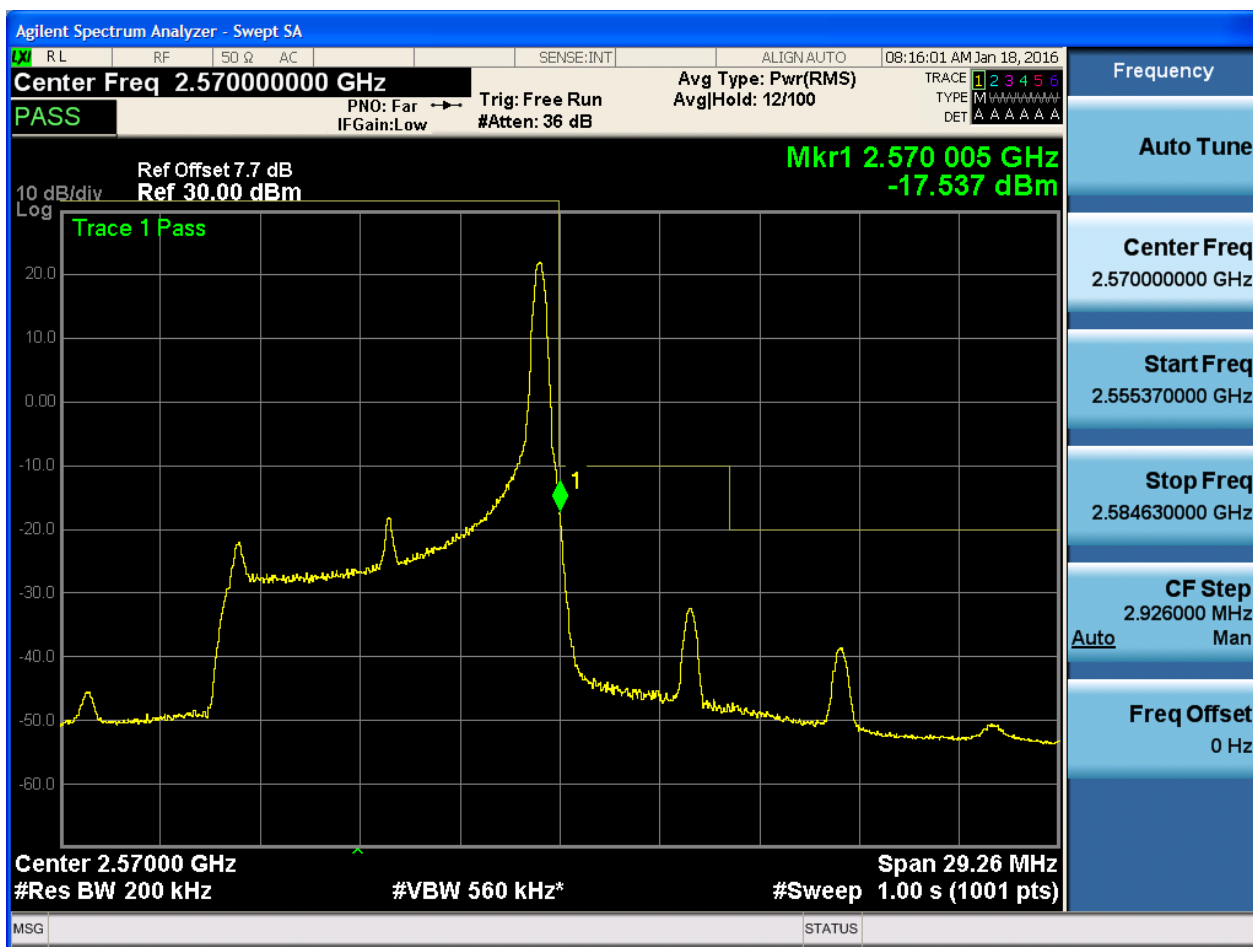
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-28.170 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

Auto

Freq Offset
0 Hz



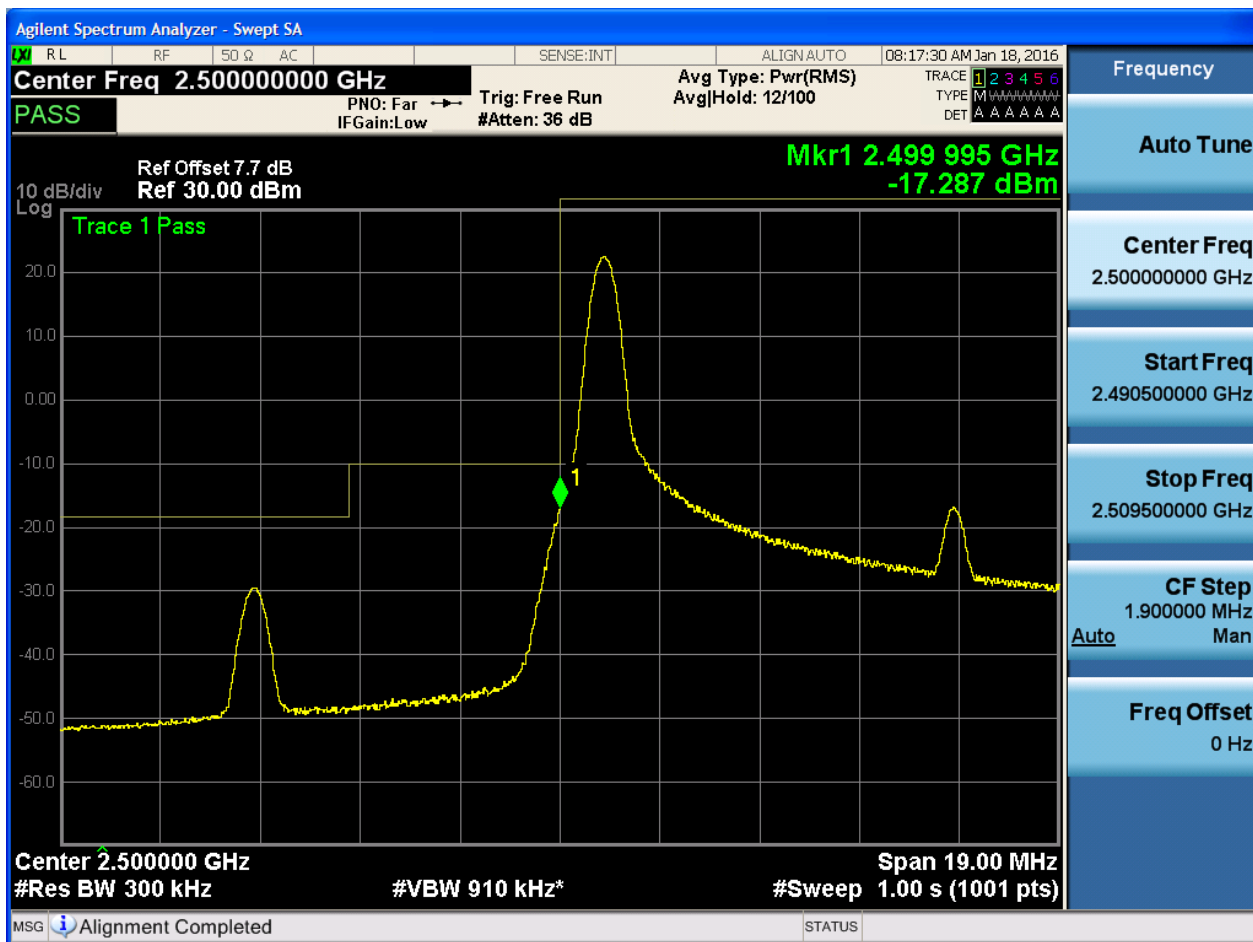
5.1.1.1.2.2.4 Test RB = RB50#0



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





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-40.047 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

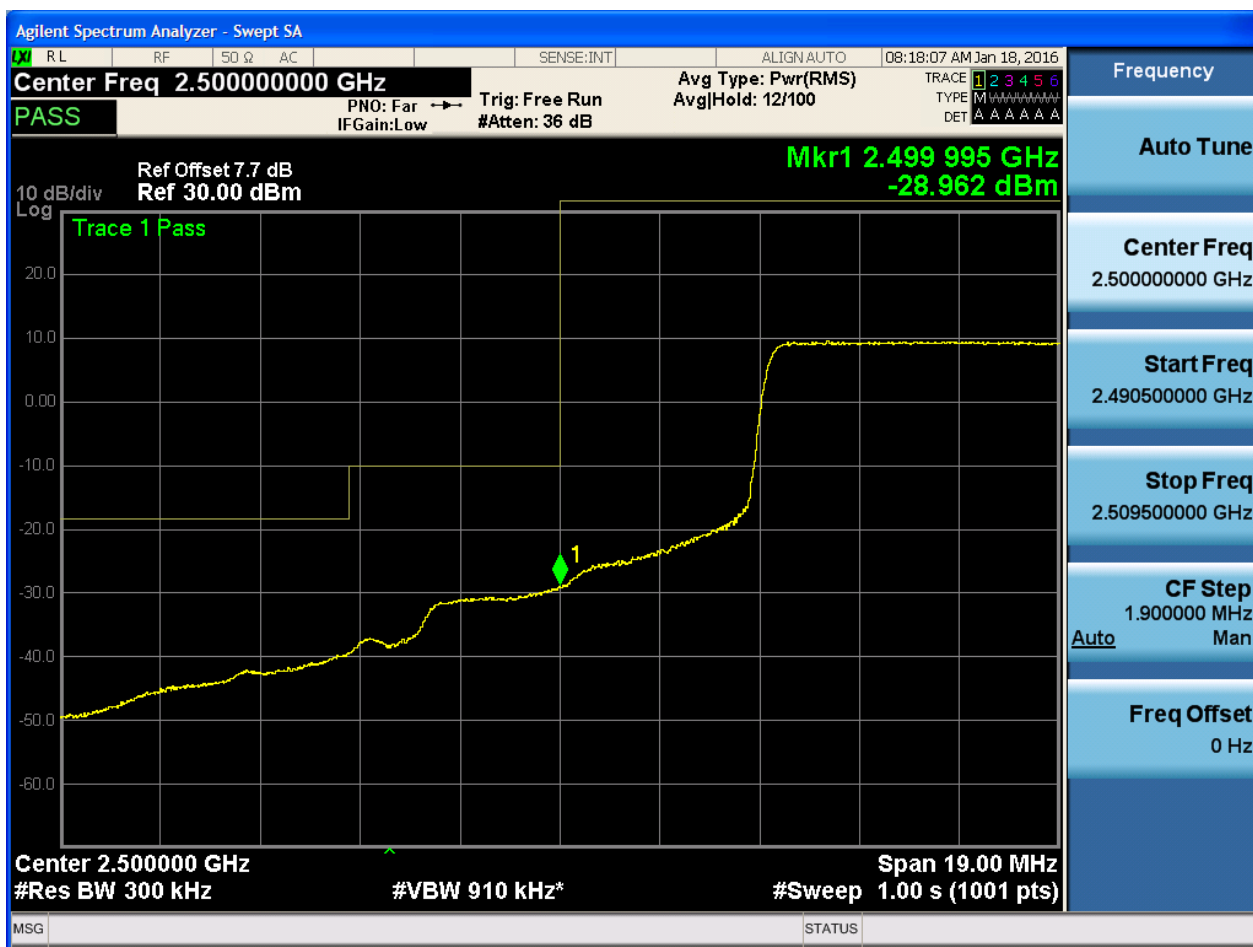
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Man

Freq Offset
0 Hz



5.1.1.1.3.1.3 Test RB = RB36#18



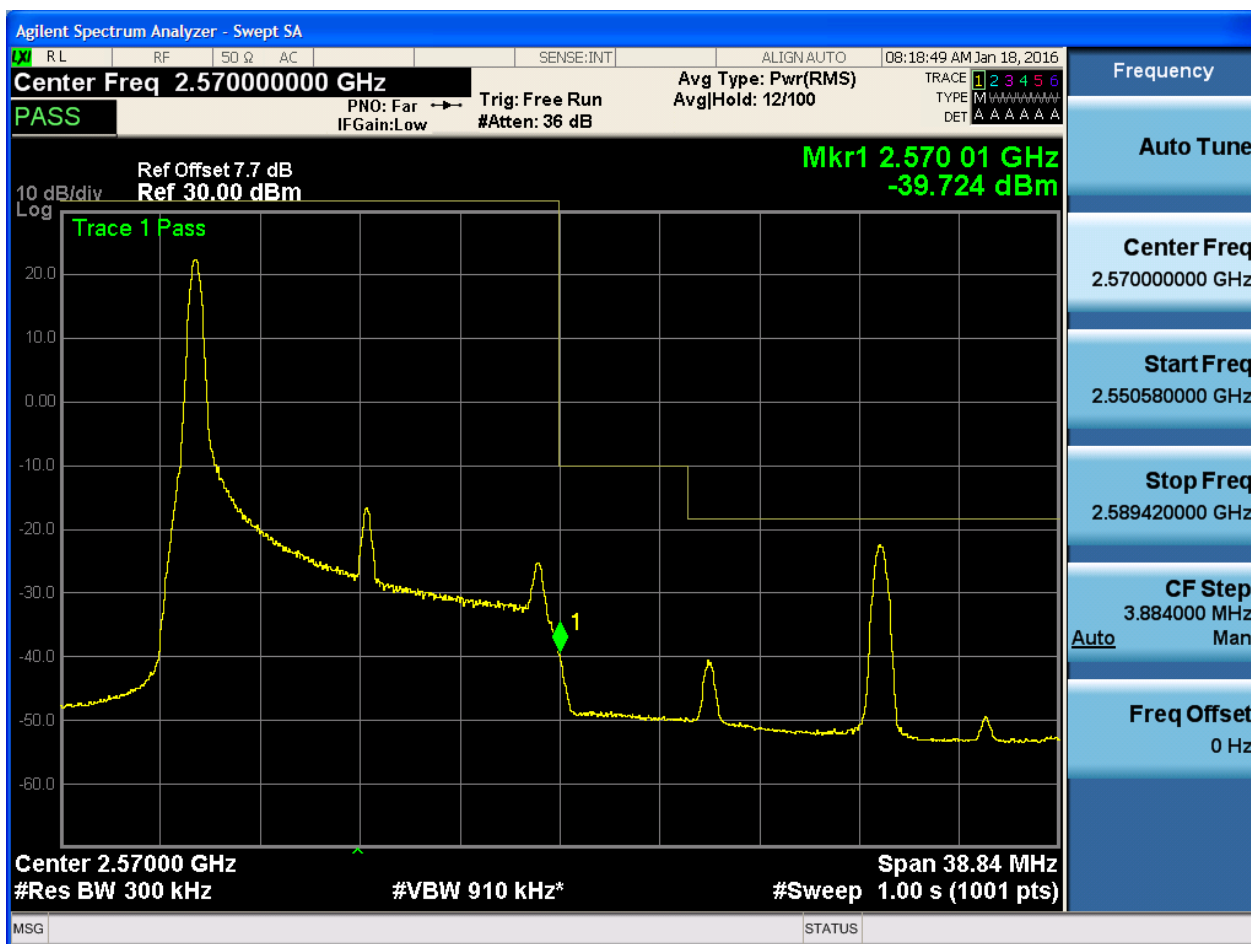


5.1.1.1.3.1.4 Test RB = RB75#0



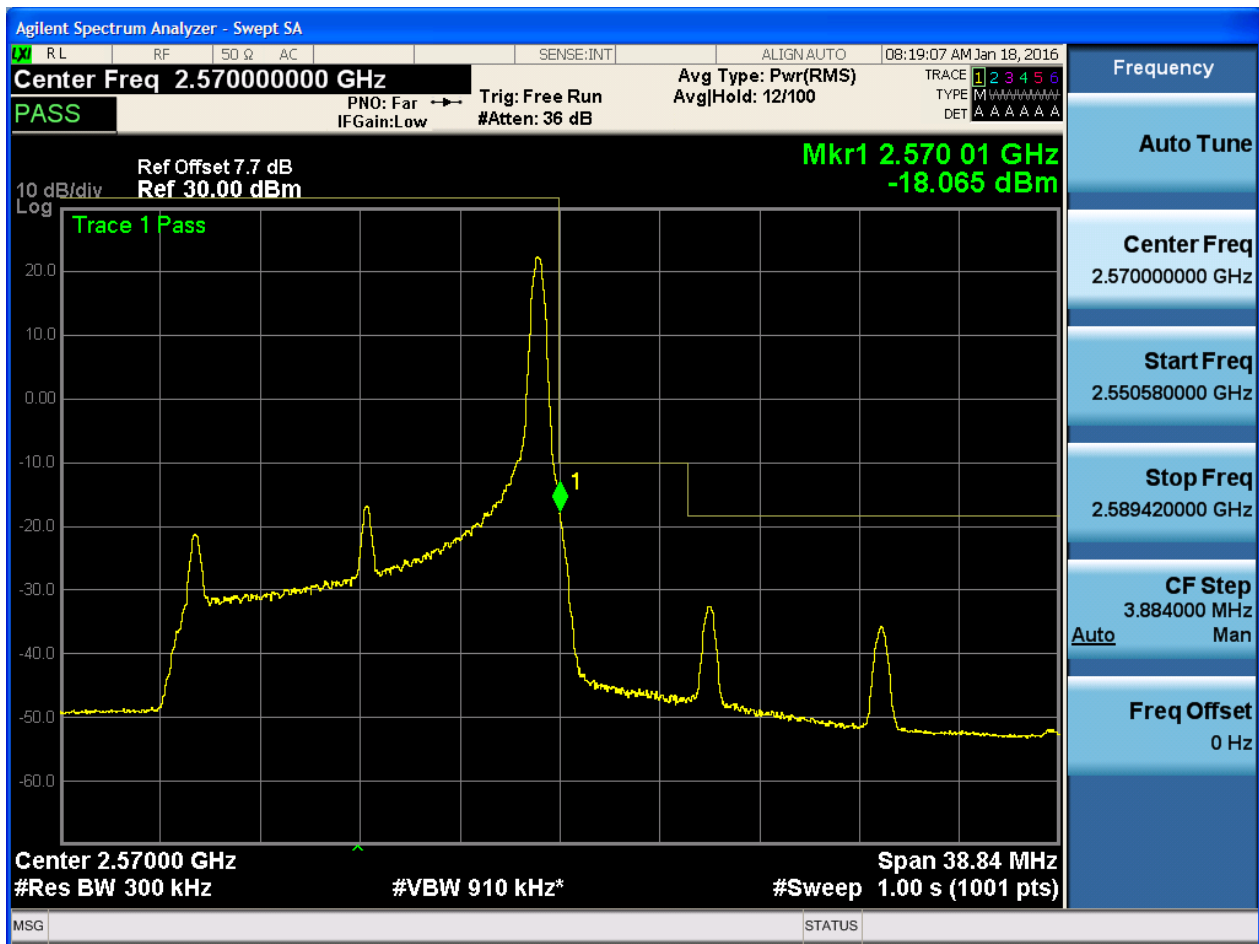
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.5701 GHz
-25.633 dBm

Trace 1 Pass

Center 2.5700 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 38.84 MHz
#Sweep 1.00 s (1001 pts)

Alignment Completed

STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550580000 GHz

Stop Freq
2.589420000 GHz

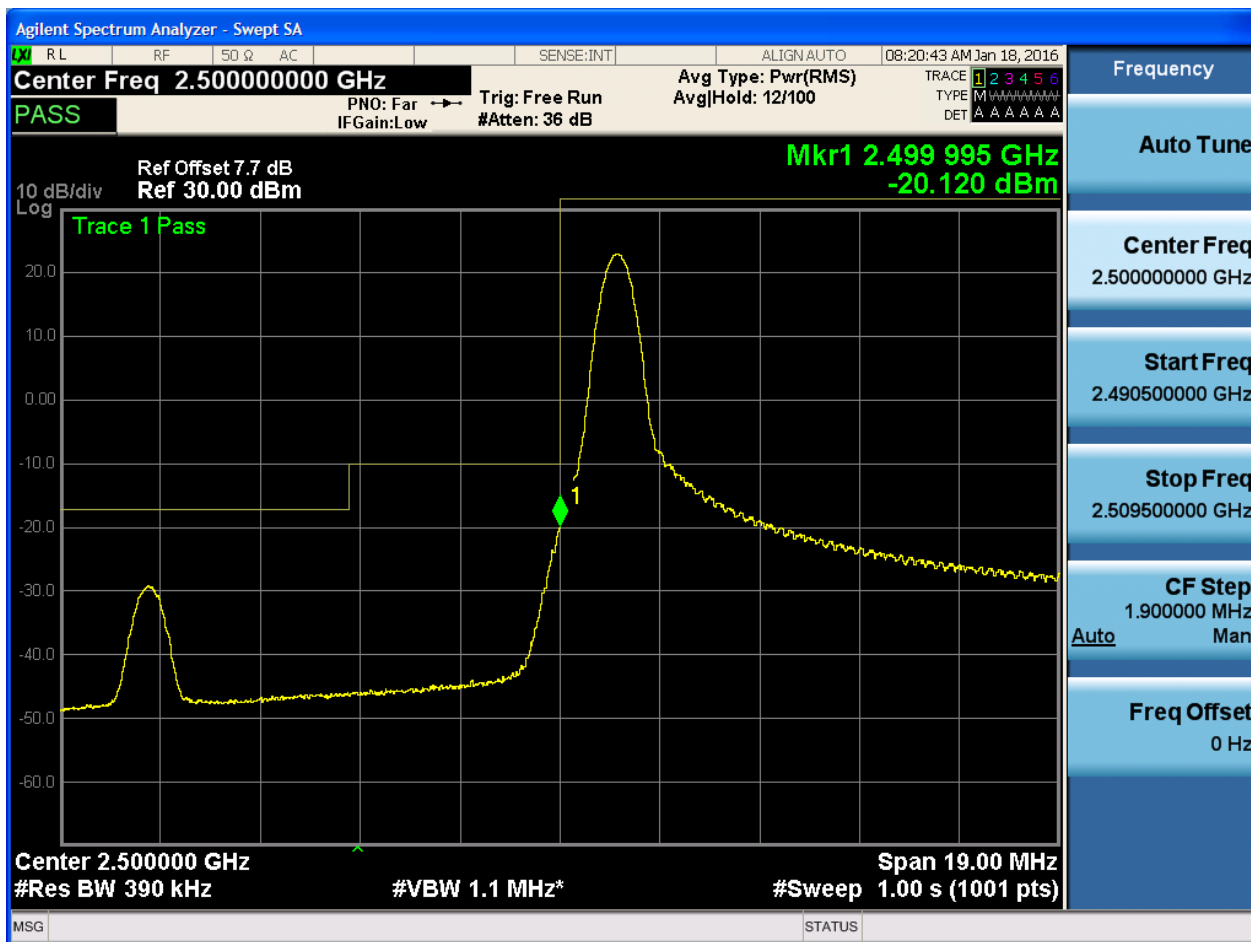
CF Step
3.884000 MHz
Man

Freq Offset
0 Hz

5.1.1.1.4 Test Bandwidth = 20

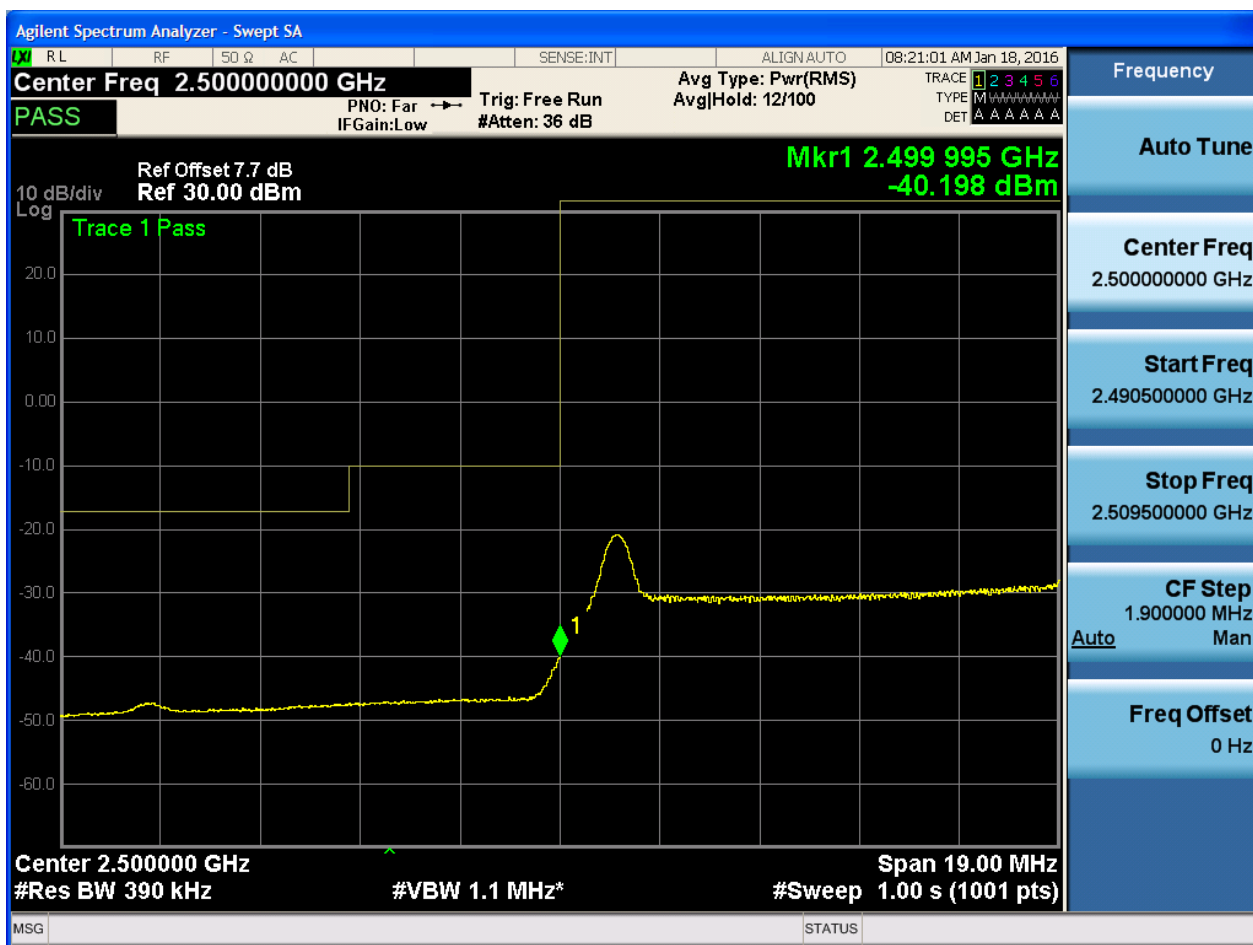
5.1.1.1.4.1 Test Channel = LCH

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



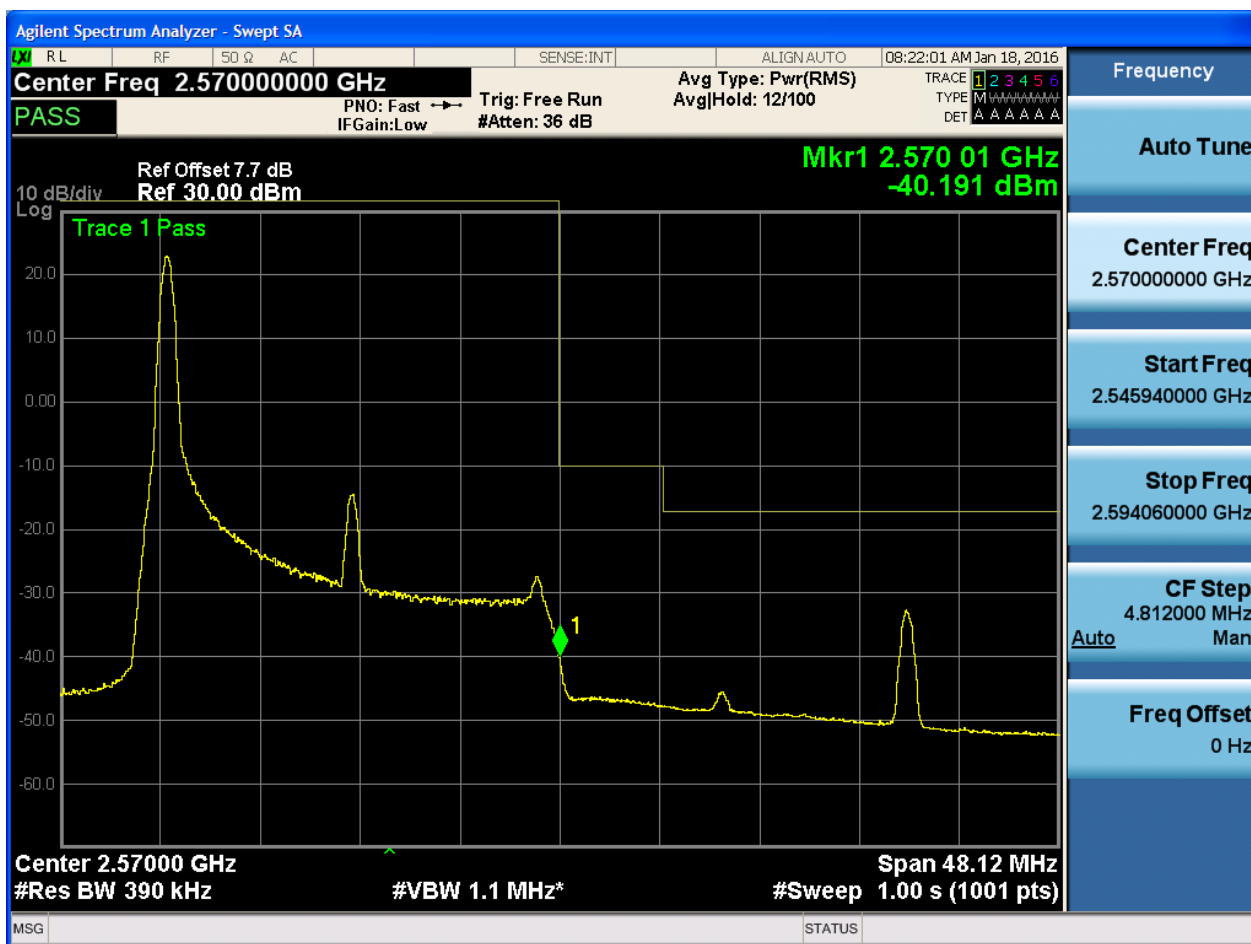


5.1.1.1.4.1.4 Test RB = RB100#0



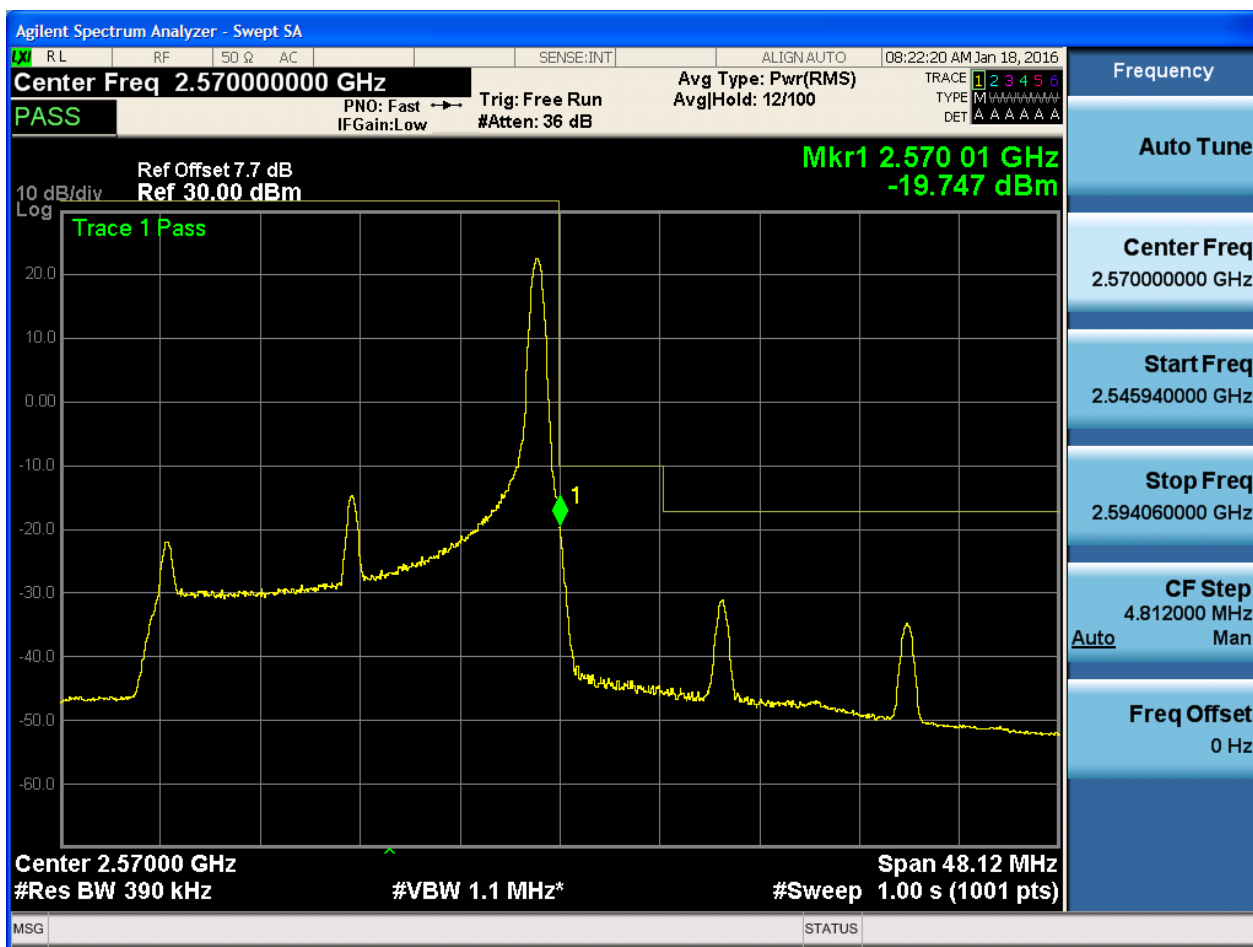
5.1.1.1.4.2 Test Channel = HCH

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





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Span 48.12 MHz
#Res BW 390 kHz
#VBW 1.1 MHz*
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq 2.57000000 GHz

Start Freq 2.545940000 GHz

Stop Freq 2.594060000 GHz

CF Step 4.812000 MHz
Man

Freq Offset 0 Hz

MSG STATUS

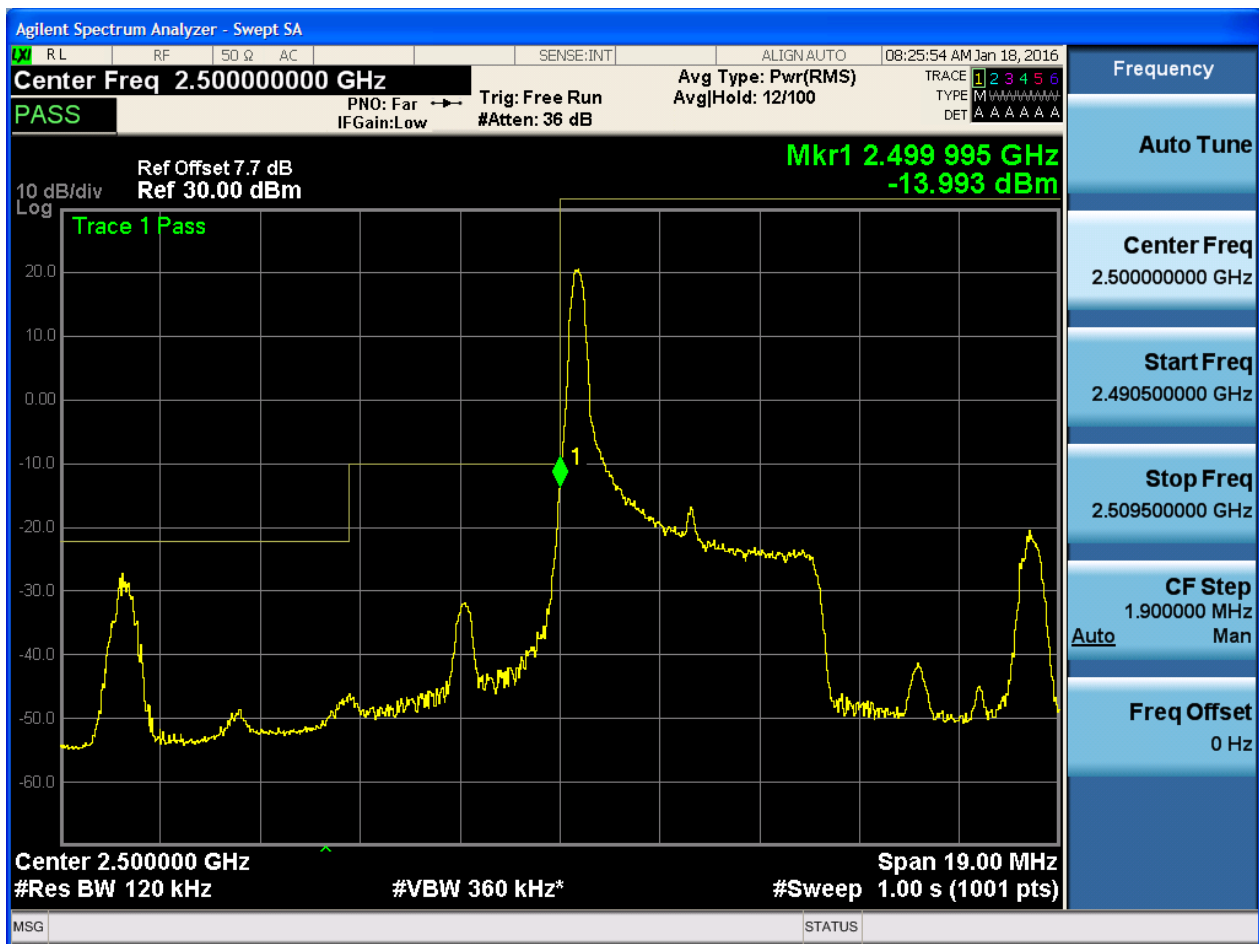


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

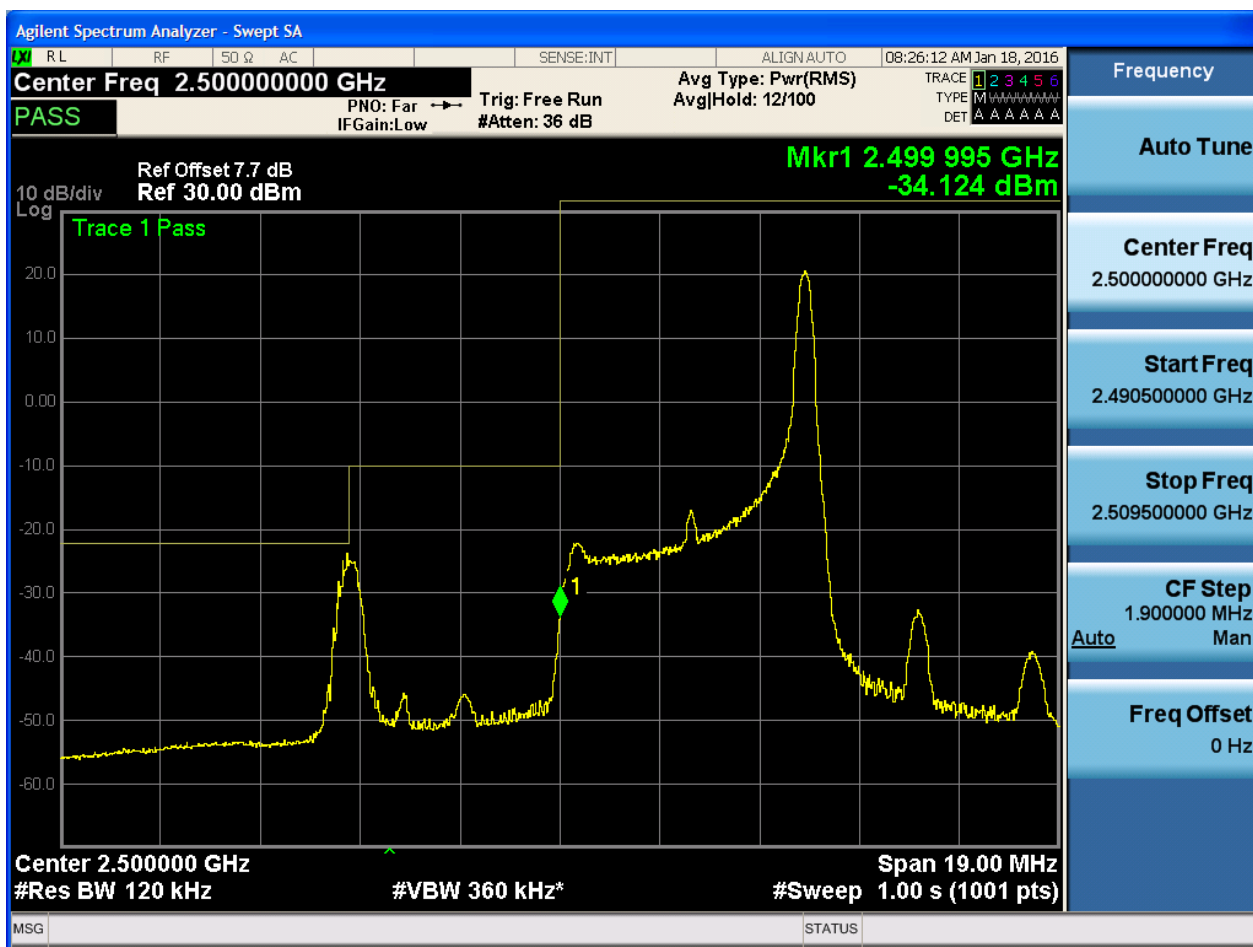
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





5.1.1.2.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-27.631 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

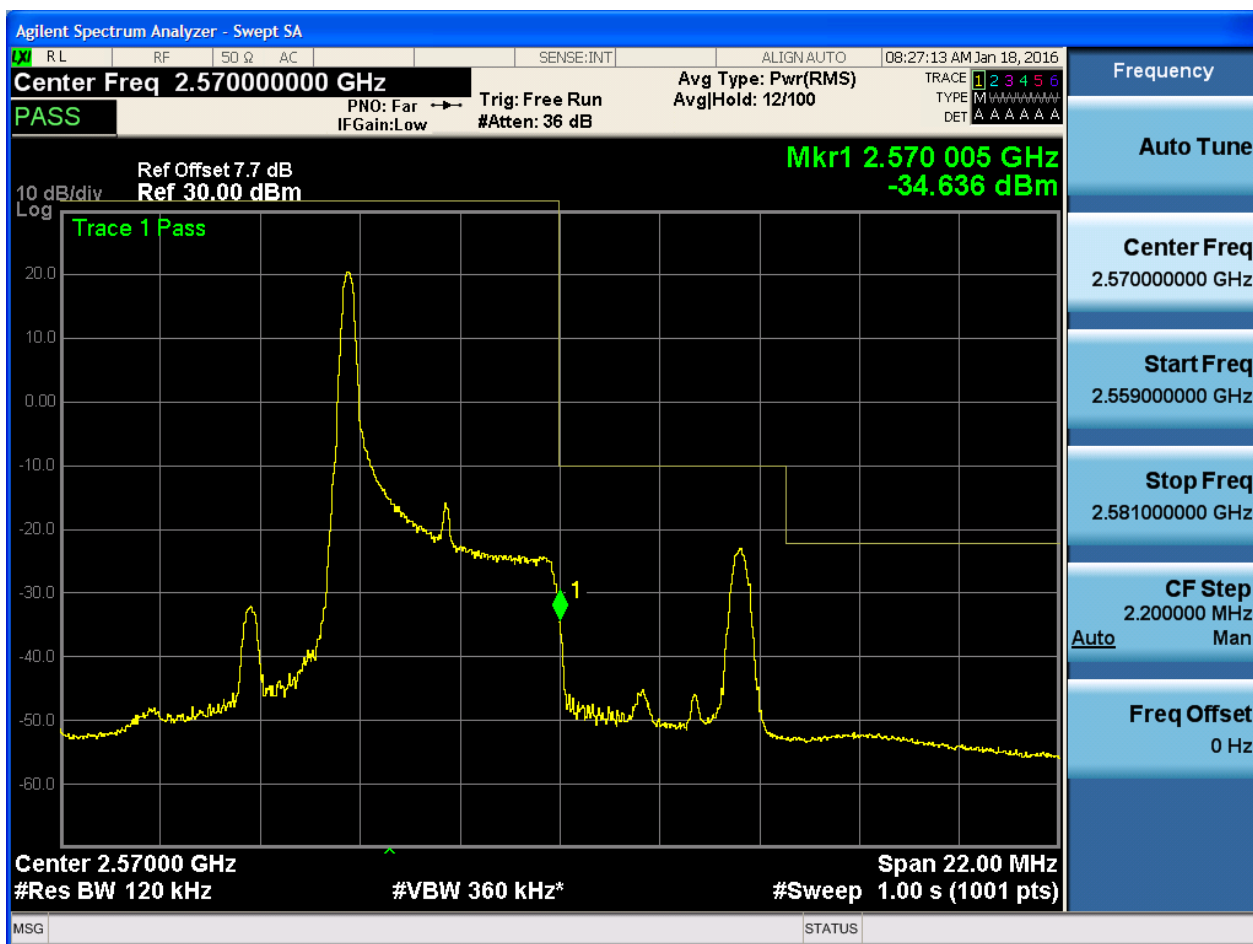


5.1.1.2.1.1.4 Test RB = RB25#0



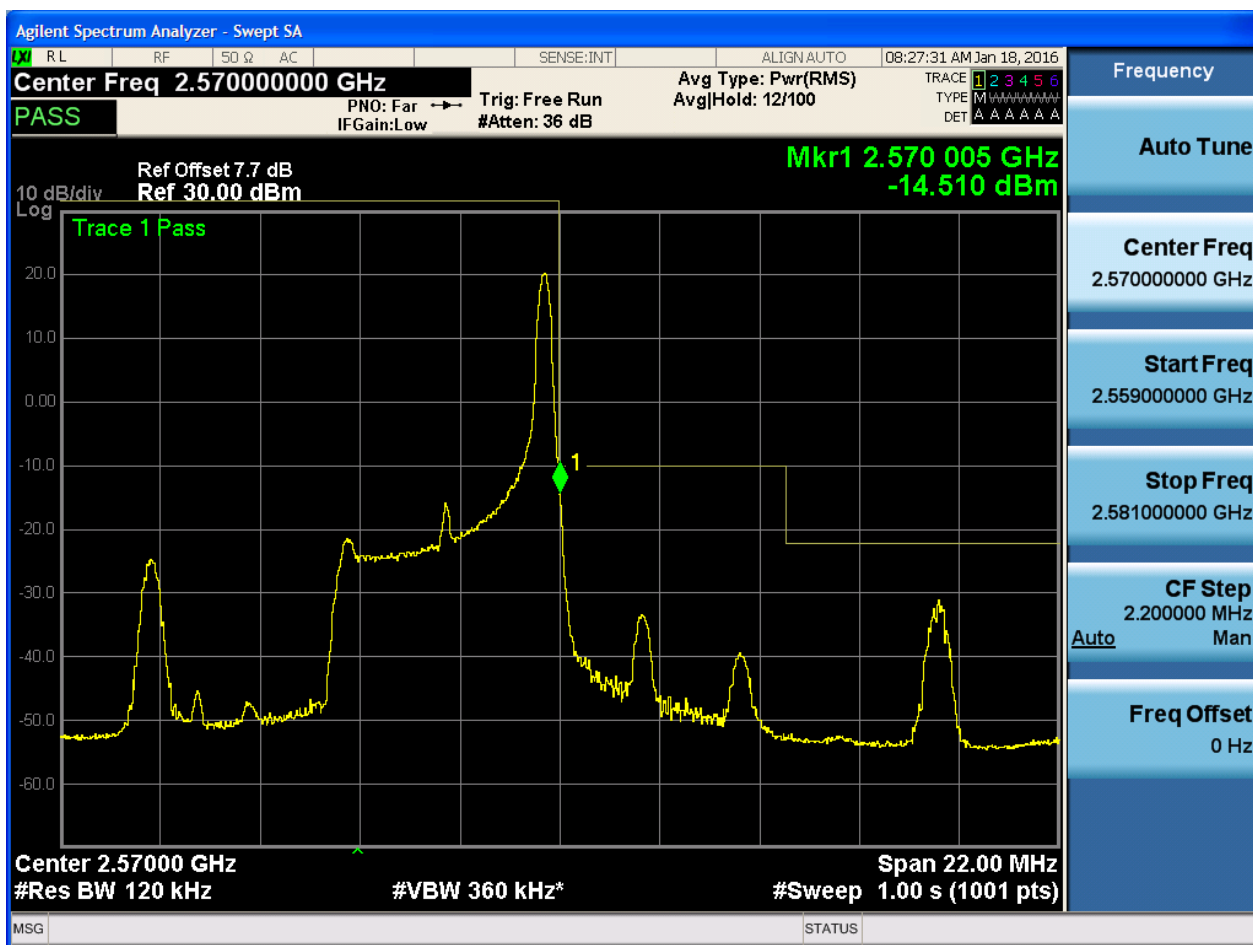
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 08:27:49 AM Jan 18, 2016

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

Ref Offset 7.7 dB Mkr1 2.570 005 GHz
Ref 30.00 dBm -29.889 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 22.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.00 s (1001 pts)

MSG STATUS



5.1.1.2.1.2.4 Test RB = RB25#0

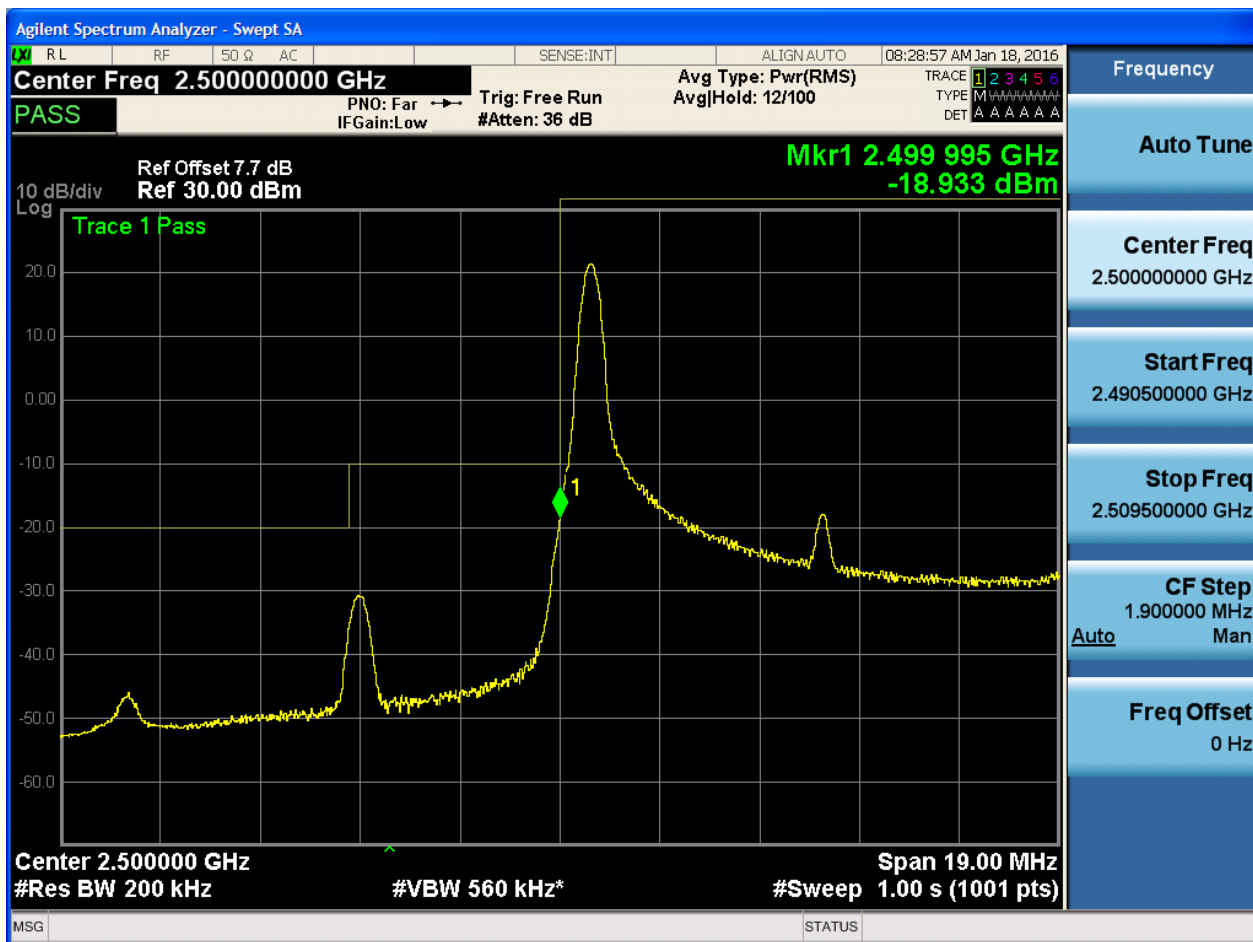




5.1.1.2.2 Test Bandwidth = 10

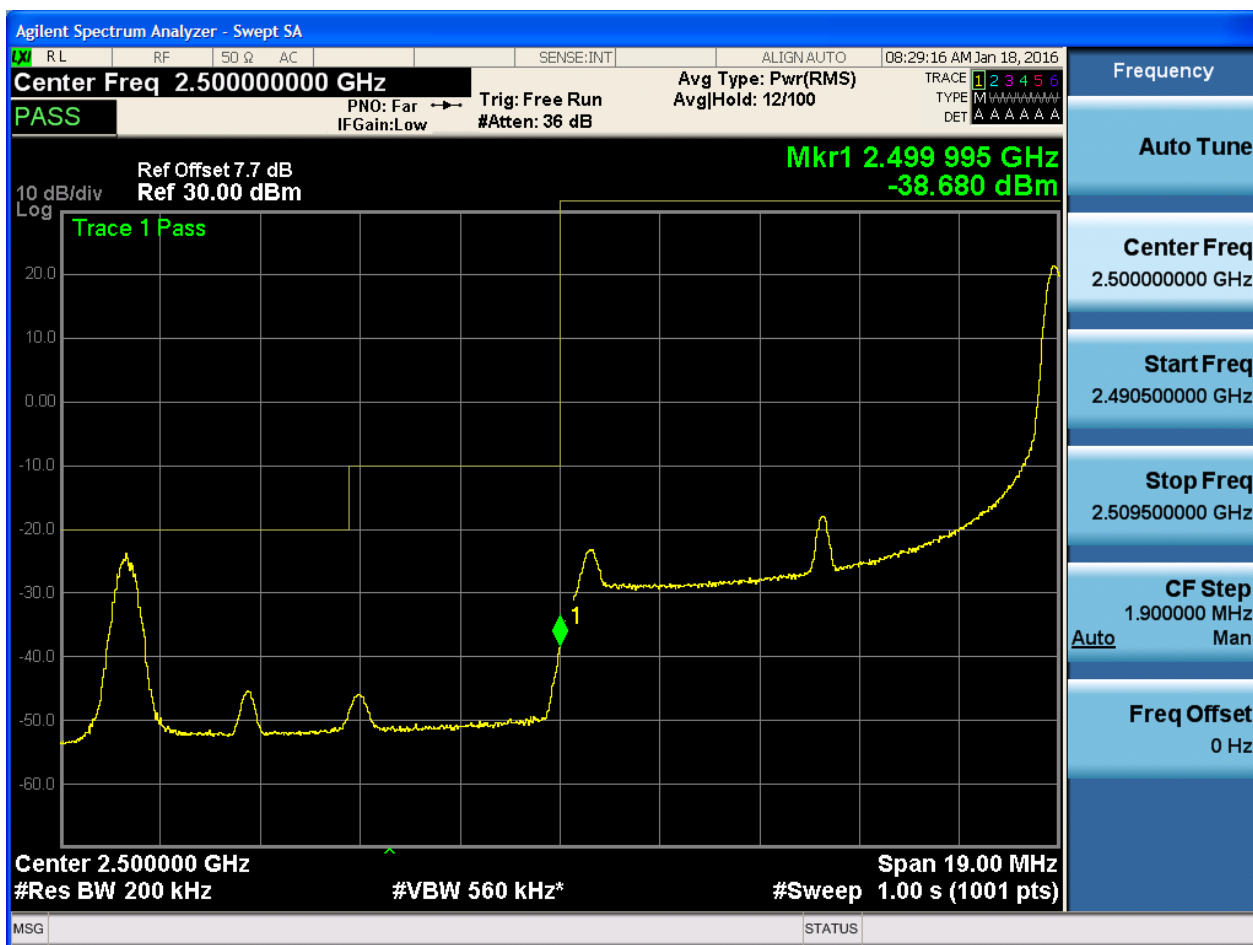
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#49



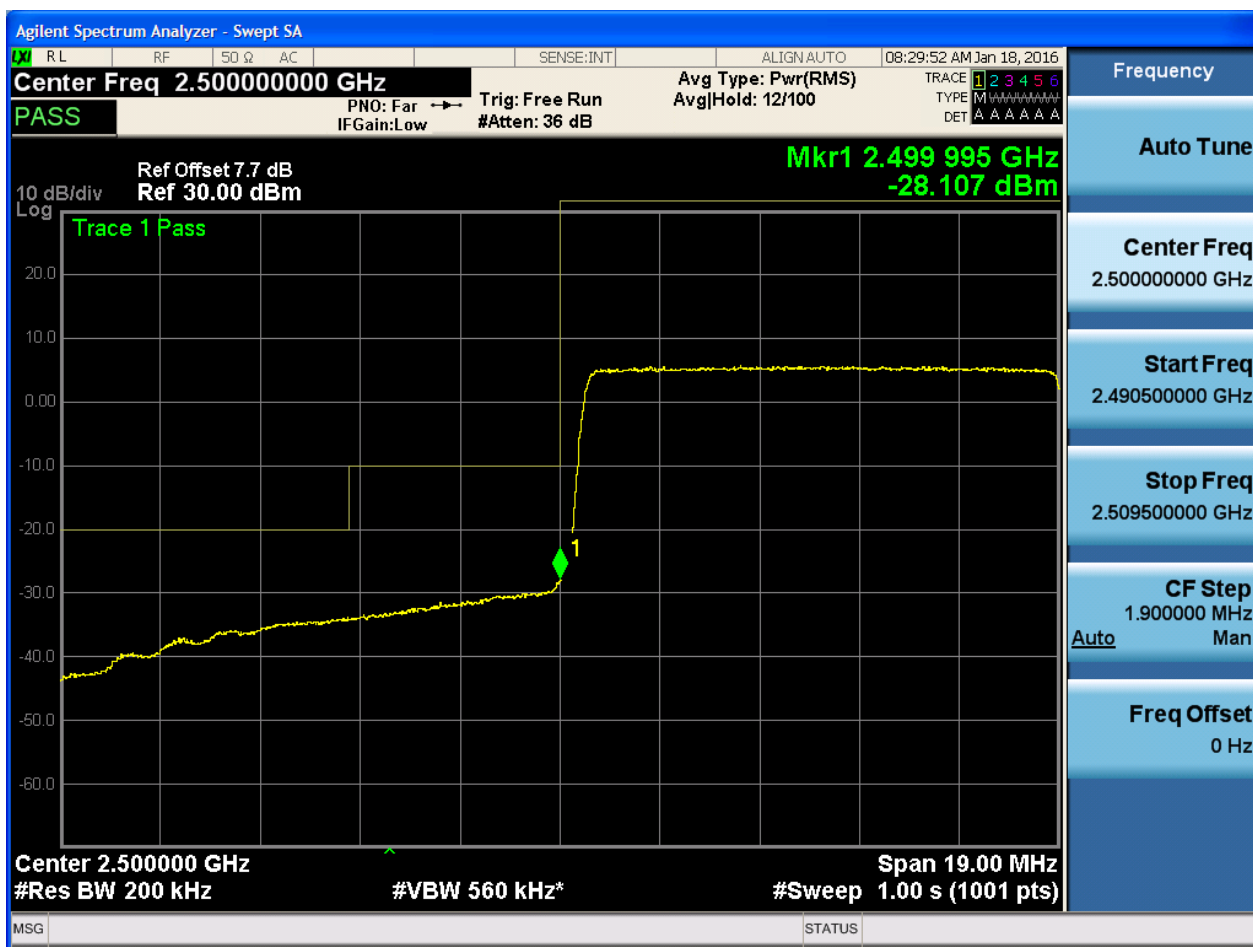


5.1.1.2.2.1.3 Test RB = RB25#13



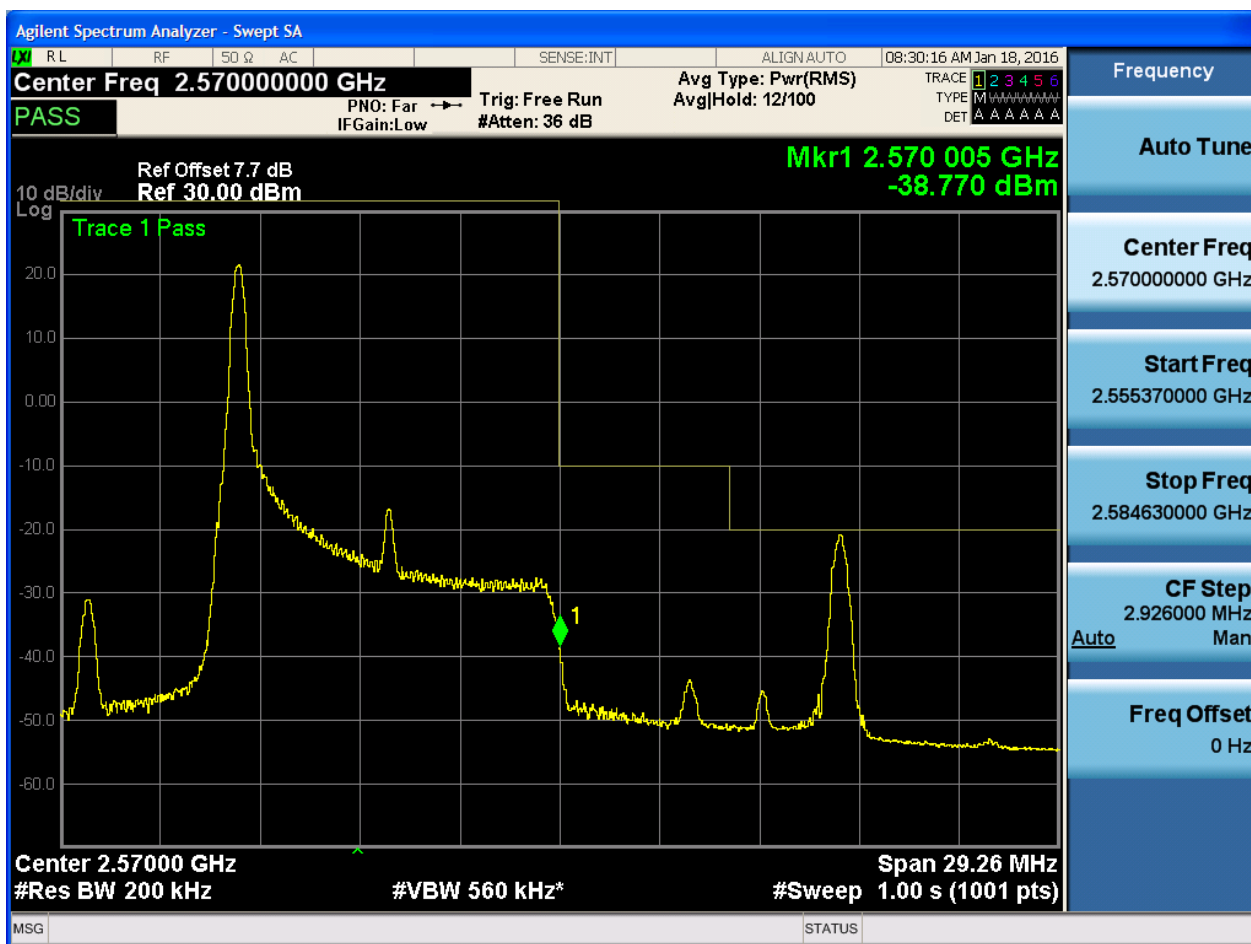


5.1.1.2.2.1.4 Test RB = RB50#0



5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



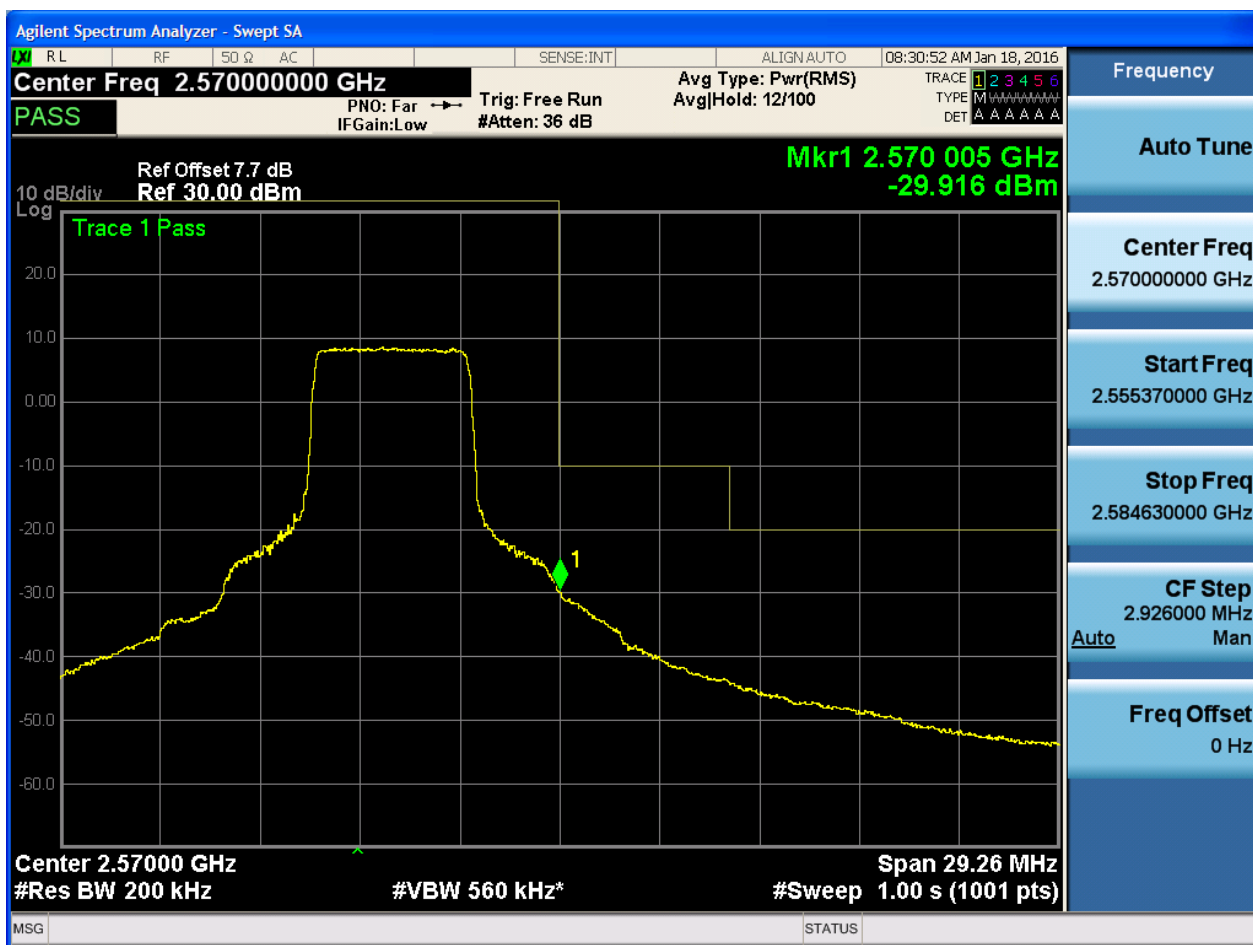


5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





5.1.1.2.2.4 Test RB = RB50#0

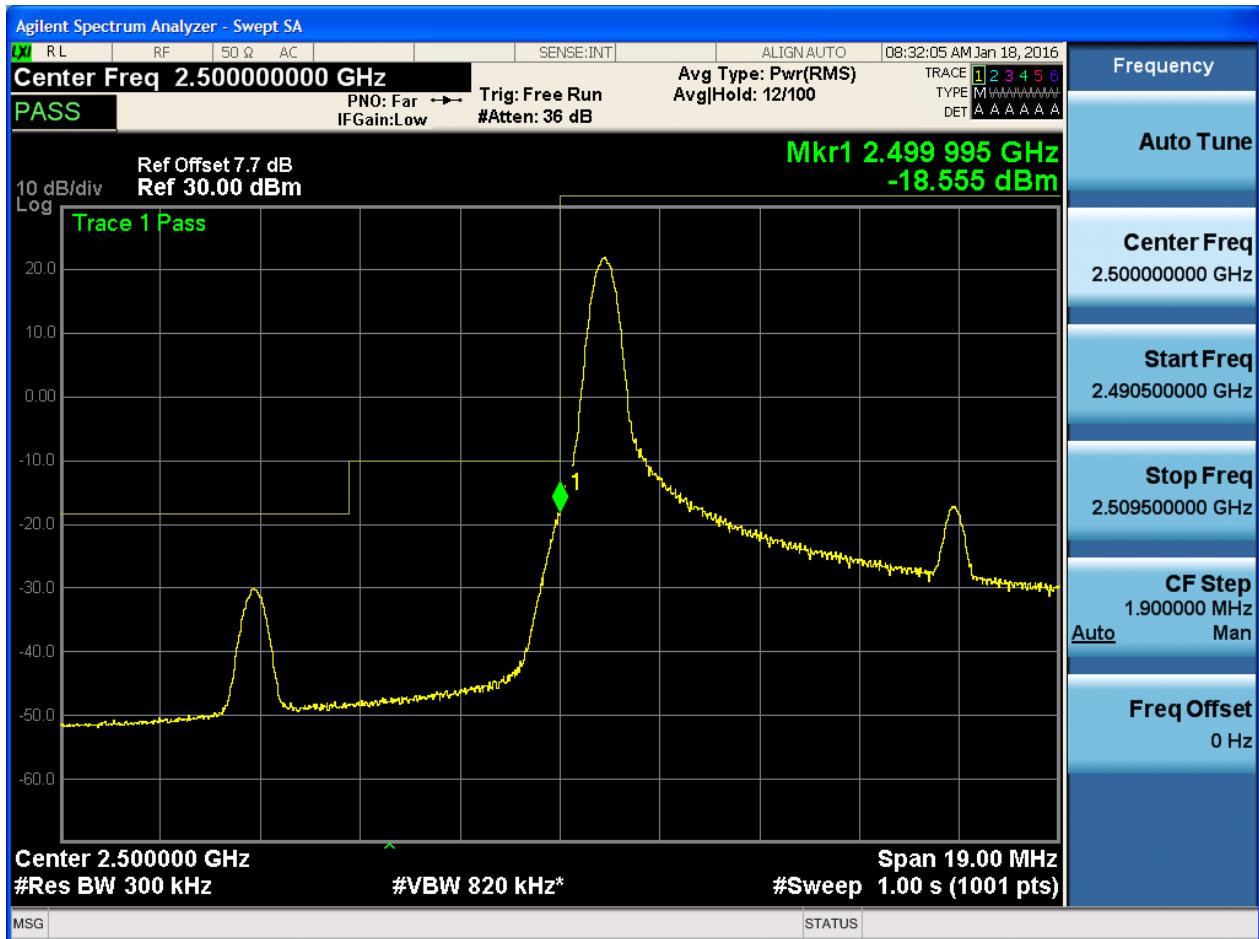




5.1.1.2.3 Test Bandwidth = 15

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

