



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	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND38	LTE/TM1	5	LCH	RB1#0	22.51	20.71	33	PASS
				RB1#13	22.44	20.64	33	PASS
				RB1#24	22.43	20.63	33	PASS
				RB12#0	21.6	19.8	33	PASS
				RB12#6	21.44	19.64	33	PASS
				RB12#13	21.41	19.61	33	PASS
				RB25#0	21.52	19.72	33	PASS
			MCH	RB1#0	22.54	20.74	33	PASS
				RB1#13	22.54	20.74	33	PASS
				RB1#24	22.46	20.66	33	PASS
				RB12#0	21.69	19.89	33	PASS
				RB12#6	21.62	19.82	33	PASS
				RB12#13	21.47	19.67	33	PASS
				RB25#0	21.69	19.89	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.66	20.86	33	PASS
				RB1#13	22.68	20.88	33	PASS
				RB1#24	22.66	20.86	33	PASS
				RB12#0	21.67	19.87	33	PASS
				RB12#6	21.69	19.89	33	PASS
				RB12#13	21.72	19.92	33	PASS
				RB25#0	21.67	19.87	33	PASS
		10	LCH	RB1#0	22.55	20.75	33	PASS
				RB1#25	22.52	20.72	33	PASS
				RB1#49	22.56	20.76	33	PASS
				RB25#0	21.6	19.8	33	PASS
				RB25#13	21.64	19.84	33	PASS
				RB25#25	21.63	19.83	33	PASS
				RB50#0	21.66	19.86	33	PASS
			MCH	RB1#0	22.68	20.88	33	PASS
				RB1#25	22.55	20.75	33	PASS
				RB1#49	22.64	20.84	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21.77	19.97	33	PASS
				RB25#13	21.74	19.94	33	PASS
				RB25#25	21.68	19.88	33	PASS
				RB50#0	21.67	19.87	33	PASS
			HCH	RB1#0	22.49	20.69	33	PASS
				RB1#25	22.71	20.91	33	PASS
				RB1#49	22.51	20.71	33	PASS
				RB25#0	21.63	19.83	33	PASS
				RB25#13	21.61	19.81	33	PASS
				RB25#25	21.74	19.94	33	PASS
				RB50#0	21.63	19.83	33	PASS
		15	LCH	RB1#0	22.66	20.86	33	PASS
				RB1#38	22.44	20.64	33	PASS
				RB1#74	22.4	20.6	33	PASS
				RB38#0	21.66	19.86	33	PASS
				RB38#19	21.67	19.87	33	PASS
				RB38#39	21.57	19.77	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.61	19.81	33	PASS
			MCH	RB1#0	22.68	20.88	33	PASS
				RB1#38	22.38	20.58	33	PASS
				RB1#74	22.45	20.65	33	PASS
				RB38#0	21.75	19.95	33	PASS
				RB38#19	21.73	19.93	33	PASS
				RB38#39	21.63	19.83	33	PASS
				RB75#0	21.68	19.88	33	PASS
			HCH	RB1#0	22.8	21	33	PASS
				RB1#38	22.64	20.84	33	PASS
				RB1#74	22.55	20.75	33	PASS
				RB38#0	21.66	19.86	33	PASS
				RB38#19	21.66	19.86	33	PASS
				RB38#39	21.59	19.79	33	PASS
				RB75#0	21.59	19.79	33	PASS
		20	LCH	RB1#0	22.44	20.64	33	PASS
				RB1#50	22.54	20.74	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.43	20.63	33	PASS
				RB50#0	21.71	19.91	33	PASS
				RB50#25	21.7	19.9	33	PASS
				RB50#50	21.71	19.91	33	PASS
				RB100#0	21.64	19.84	33	PASS
			MCH	RB1#0	22.44	20.64	33	PASS
				RB1#50	22.7	20.9	33	PASS
				RB1#99	22.31	20.51	33	PASS
				RB50#0	21.76	19.96	33	PASS
				RB50#25	21.7	19.9	33	PASS
				RB50#50	21.63	19.83	33	PASS
				RB100#0	21.69	19.89	33	PASS
			HCH	RB1#0	22.67	20.87	33	PASS
				RB1#50	22.84	21.04	33	PASS
				RB1#99	22.79	20.99	33	PASS
				RB50#0	21.74	19.94	33	PASS
				RB50#25	21.63	19.83	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.67	19.87	33	PASS
				RB100#0	21.67	19.87	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.46	19.66	33	PASS
				RB1#13	21.39	19.59	33	PASS
				RB1#24	20.86	19.06	33	PASS
				RB12#0	20.51	18.71	33	PASS
				RB12#6	20.34	18.54	33	PASS
				RB12#13	20.32	18.52	33	PASS
				RB25#0	20.54	18.74	33	PASS
			MCH	RB1#0	21.56	19.76	33	PASS
				RB1#13	21.5	19.7	33	PASS
				RB1#24	20.9	19.1	33	PASS
				RB12#0	20.52	18.72	33	PASS
				RB12#6	20.8	19	33	PASS
				RB12#13	20.8	19	33	PASS
				RB25#0	20.73	18.93	33	PASS
			HCH	RB1#0	21.97	20.17	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	21.81	20.01	33	PASS
				RB1#24	21.75	19.95	33	PASS
				RB12#0	20.7	18.9	33	PASS
				RB12#6	20.71	18.91	33	PASS
				RB12#13	20.64	18.84	33	PASS
				RB25#0	20.69	18.89	33	PASS
		10	LCH	RB1#0	21.72	19.92	33	PASS
				RB1#25	22.28	20.48	33	PASS
				RB1#49	21.64	19.84	33	PASS
				RB25#0	20.45	18.65	33	PASS
				RB25#13	20.75	18.95	33	PASS
				RB25#25	20.47	18.67	33	PASS
				RB50#0	20.69	18.89	33	PASS
			MCH	RB1#0	21.72	19.92	33	PASS
				RB1#25	22.31	20.51	33	PASS
				RB1#49	21.69	19.89	33	PASS
				RB25#0	20.62	18.82	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.76	18.96	33	PASS
				RB25#25	20.71	18.91	33	PASS
				RB50#0	20.71	18.91	33	PASS
			HCH	RB1#0	21.61	19.81	33	PASS
				RB1#25	22.29	20.49	33	PASS
				RB1#49	21.61	19.81	33	PASS
				RB25#0	20.72	18.92	33	PASS
				RB25#13	20.7	18.9	33	PASS
				RB25#25	20.73	18.93	33	PASS
				RB50#0	20.69	18.89	33	PASS
		15	LCH	RB1#0	21.84	20.04	33	PASS
				RB1#38	21.66	19.86	33	PASS
				RB1#74	21.68	19.88	33	PASS
				RB38#0	20.69	18.89	33	PASS
				RB38#19	20.61	18.81	33	PASS
				RB38#39	20.5	18.7	33	PASS
				RB75#0	20.58	18.78	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.81	20.01	33	PASS
				RB1#38	21.59	19.79	33	PASS
				RB1#74	21.65	19.85	33	PASS
				RB38#0	20.61	18.81	33	PASS
				RB38#19	20.67	18.87	33	PASS
				RB38#39	20.56	18.76	33	PASS
				RB75#0	20.72	18.92	33	PASS
			HCH	RB1#0	21.84	20.04	33	PASS
				RB1#38	21.7	19.9	33	PASS
				RB1#74	21.75	19.95	33	PASS
				RB38#0	20.68	18.88	33	PASS
				RB38#19	20.7	18.9	33	PASS
				RB38#39	20.61	18.81	33	PASS
				RB75#0	20.62	18.82	33	PASS
		20	LCH	RB1#0	21.69	19.89	33	PASS
				RB1#50	22.18	20.38	33	PASS
				RB1#99	21.64	19.84	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.66	18.86	33	PASS
				RB50#25	20.66	18.86	33	PASS
				RB50#50	20.66	18.86	33	PASS
				RB100#0	20.61	18.81	33	PASS
			MCH	RB1#0	21.77	19.97	33	PASS
				RB1#50	21.8	20	33	PASS
				RB1#99	21.81	20.01	33	PASS
				RB50#0	20.68	18.88	33	PASS
				RB50#25	20.75	18.95	33	PASS
				RB50#50	20.69	18.89	33	PASS
				RB100#0	20.7	18.9	33	PASS
			HCH	RB1#0	21.14	19.34	33	PASS
				RB1#50	21.55	19.75	33	PASS
				RB1#99	21.09	19.29	33	PASS
				RB50#0	20.75	18.95	33	PASS
				RB50#25	20.71	18.91	33	PASS
				RB50#50	20.66	18.86	33	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measure d[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.6	18.8	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:

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

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

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

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
BAND38	LTE/TM1	5	LCH	RB1#0	3.96	13	PASS
				RB1#13	3.83	13	PASS
				RB1#24	3.94	13	PASS
				RB12#0	4.7	13	PASS
				RB12#6	4.63	13	PASS
				RB12#13	4.71	13	PASS
				RB25#0	5.17	13	PASS
			MCH	RB1#0	3.79	13	PASS
				RB1#13	3.63	13	PASS
				RB1#24	3.72	13	PASS
				RB12#0	4.52	13	PASS
				RB12#6	4.39	13	PASS
				RB12#13	4.55	13	PASS
				RB25#0	5.05	13	PASS
		10	HCH	RB1#0	3.5	13	PASS
				RB1#13	3.34	13	PASS
				RB1#24	3.51	13	PASS
				RB12#0	4.41	13	PASS
				RB12#6	4.21	13	PASS
				RB12#13	4.35	13	PASS
				RB25#0	4.77	13	PASS
			LCH	RB1#0	4.04	13	PASS
				RB1#25	3.91	13	PASS
				RB1#49	3.95	13	PASS
				RB25#0	4.8	13	PASS
				RB25#13	4.63	13	PASS
				RB25#25	4.7	13	PASS
				RB50#0	5.31	13	PASS
			MCH	RB1#0	3.81	13	PASS
				RB1#25	3.7	13	PASS
				RB1#49	3.73	13	PASS
				RB25#0	4.56	13	PASS
				RB25#13	4.43	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	4.53	13	PASS
				RB50#0	5.09	13	PASS
			HCH	RB1#0	3.58	13	PASS
				RB1#25	3.31	13	PASS
				RB1#49	3.47	13	PASS
				RB25#0	4.4	13	PASS
				RB25#13	4.3	13	PASS
				RB25#25	4.34	13	PASS
				RB50#0	5	13	PASS
		15	LCH	RB1#0	4.03	13	PASS
				RB1#38	3.97	13	PASS
				RB1#74	3.98	13	PASS
				RB38#0	4.76	13	PASS
				RB38#19	4.66	13	PASS
				RB38#39	4.71	13	PASS
				RB75#0	5.26	13	PASS
			MCH	RB1#0	3.79	13	PASS
				RB1#38	3.81	13	PASS
				RB1#74	3.71	13	PASS
				RB38#0	4.58	13	PASS
				RB38#19	4.47	13	PASS
				RB38#39	4.57	13	PASS
				RB75#0	5.14	13	PASS
			HCH	RB1#0	3.62	13	PASS
				RB1#38	3.44	13	PASS
				RB1#74	3.47	13	PASS
				RB38#0	4.49	13	PASS
				RB38#19	4.39	13	PASS
				RB38#39	4.45	13	PASS
				RB75#0	5.14	13	PASS
		20	LCH	RB1#0	4.07	13	PASS
				RB1#50	3.73	13	PASS
				RB1#99	3.88	13	PASS
				RB50#0	4.73	13	PASS
				RB50#25	4.6	13	PASS
				RB50#50	4.6	13	PASS
				RB100#0	5.19	13	PASS
			MCH	RB1#0	3.91	13	PASS
				RB1#50	3.65	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	3.82	13	PASS
				RB50#0	4.57	13	PASS
				RB50#25	4.45	13	PASS
				RB50#50	4.48	13	PASS
				RB100#0	5.18	13	PASS
			HCH	RB1#0	3.62	13	PASS
				RB1#50	3.3	13	PASS
				RB1#99	3.4	13	PASS
				RB50#0	4.46	13	PASS
				RB50#25	4.41	13	PASS
				RB50#50	4.43	13	PASS
				RB100#0	5.08	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.29	13	PASS
				RB1#13	4.21	13	PASS
				RB1#24	4.62	13	PASS
				RB12#0	5.58	13	PASS
				RB12#6	5.47	13	PASS
				RB12#13	5.64	13	PASS
				RB25#0	5.95	13	PASS
			MCH	RB1#0	4.06	13	PASS
				RB1#13	4.24	13	PASS
				RB1#24	4.36	13	PASS
				RB12#0	5.43	13	PASS
				RB12#6	5.05	13	PASS
				RB12#13	5.45	13	PASS
				RB25#0	5.79	13	PASS
			HCH	RB1#0	4.68	13	PASS
				RB1#13	4.62	13	PASS
				RB1#24	5.1	13	PASS
				RB12#0	5.17	13	PASS
				RB12#6	5.11	13	PASS
				RB12#13	5.18	13	PASS
				RB25#0	5.61	13	PASS
		10	LCH	RB1#0	4.64	13	PASS
				RB1#25	4.35	13	PASS
				RB1#49	4.57	13	PASS
				RB25#0	5.71	13	PASS
				RB25#13	5.6	13	PASS
				RB25#25	5.56	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	6.35	13	PASS
			MCH	RB1#0	4.39	13	PASS
				RB1#25	4.14	13	PASS
				RB1#49	4.28	13	PASS
				RB25#0	5.42	13	PASS
				RB25#13	5.36	13	PASS
				RB25#25	5.38	13	PASS
				RB50#0	6.01	13	PASS
			HCH	RB1#0	4.19	13	PASS
				RB1#25	3.49	13	PASS
				RB1#49	4.08	13	PASS
				RB25#0	5.39	13	PASS
				RB25#13	5.23	13	PASS
				RB25#25	5.23	13	PASS
				RB50#0	6.03	13	PASS
		15	LCH	RB1#0	4.58	13	PASS
				RB1#38	4.5	13	PASS
				RB1#74	4.51	13	PASS
				RB38#0	5.76	13	PASS
				RB38#19	5.62	13	PASS
				RB38#39	5.76	13	PASS
				RB75#0	6.12	13	PASS
			MCH	RB1#0	4.41	13	PASS
				RB1#38	4.39	13	PASS
				RB1#74	4.35	13	PASS
				RB38#0	5.53	13	PASS
				RB38#19	5.44	13	PASS
				RB38#39	5.49	13	PASS
				RB75#0	6.06	13	PASS
			HCH	RB1#0	4.5	13	PASS
				RB1#38	4.24	13	PASS
				RB1#74	4.4	13	PASS
				RB38#0	5.47	13	PASS
				RB38#19	5.39	13	PASS
				RB38#39	5.47	13	PASS
				RB75#0	5.93	13	PASS
		20	LCH	RB1#0	4.9	13	PASS
				RB1#50	4.83	13	PASS
				RB1#99	4.86	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB50#0	5.66	13	PASS
				RB50#25	5.61	13	PASS
				RB50#50	5.57	13	PASS
				RB100#0	6.19	13	PASS
			MCH	RB1#0	4.89	13	PASS
				RB1#50	4.41	13	PASS
				RB1#99	4.77	13	PASS
				RB50#0	5.51	13	PASS
				RB50#25	5.43	13	PASS
				RB50#50	5.5	13	PASS
				RB100#0	6.01	13	PASS
			HCH	RB1#0	5.06	13	PASS
				RB1#50	4.72	13	PASS
				RB1#99	5	13	PASS
				RB50#0	5.4	13	PASS
				RB50#25	5.31	13	PASS
				RB50#50	5.39	13	PASS
				RB100#0	6.15	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

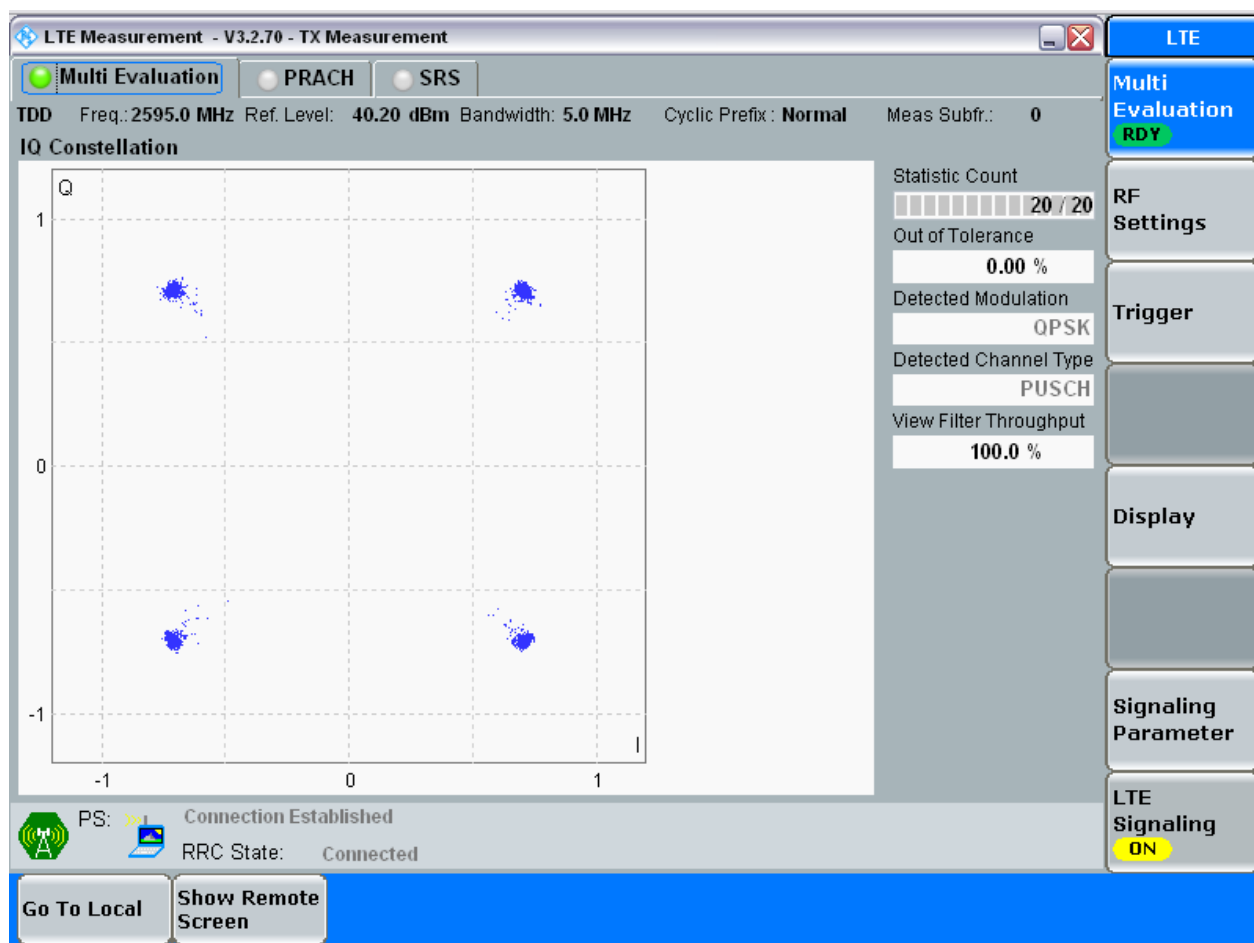
3.1.1 Test Band = BAND38

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

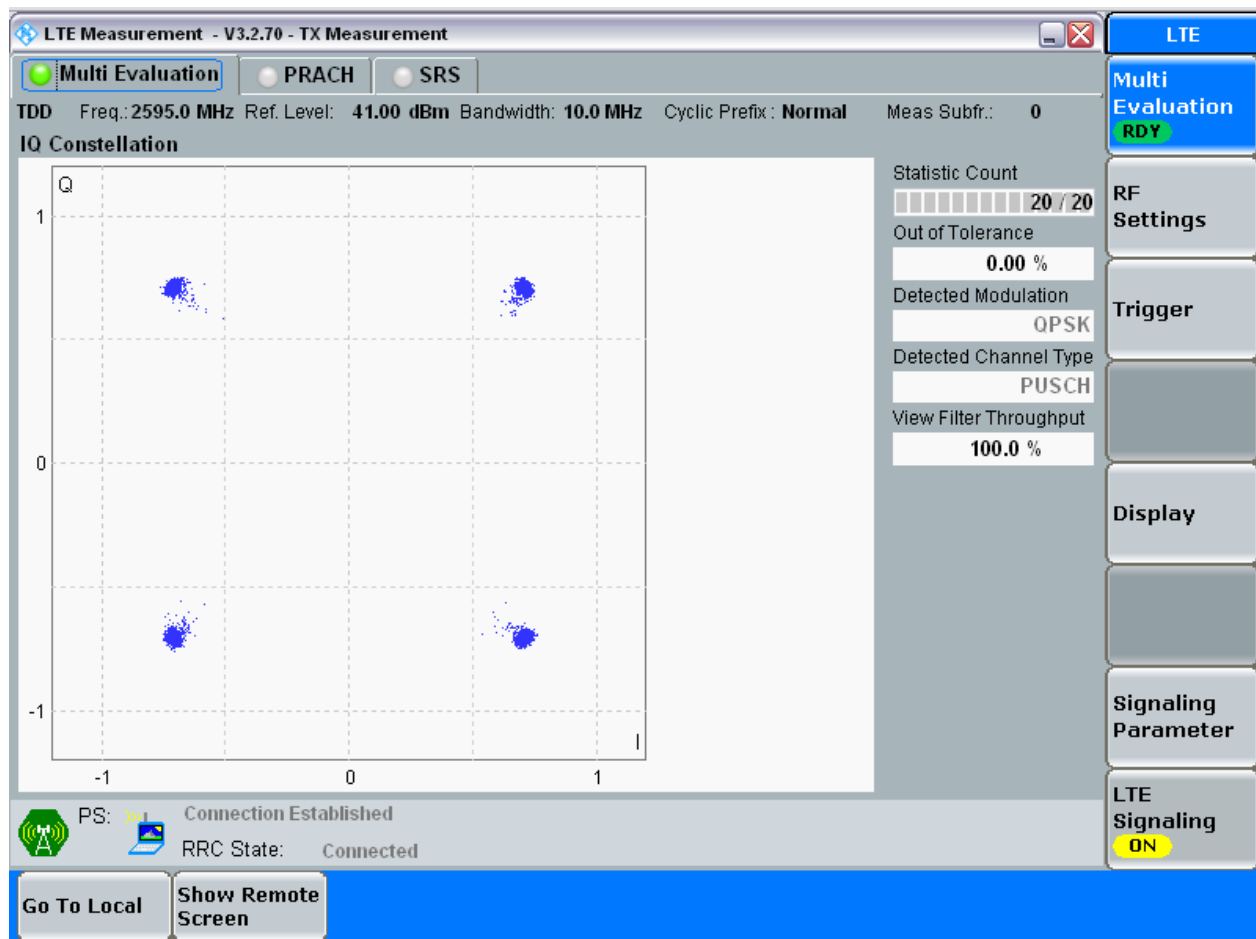
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

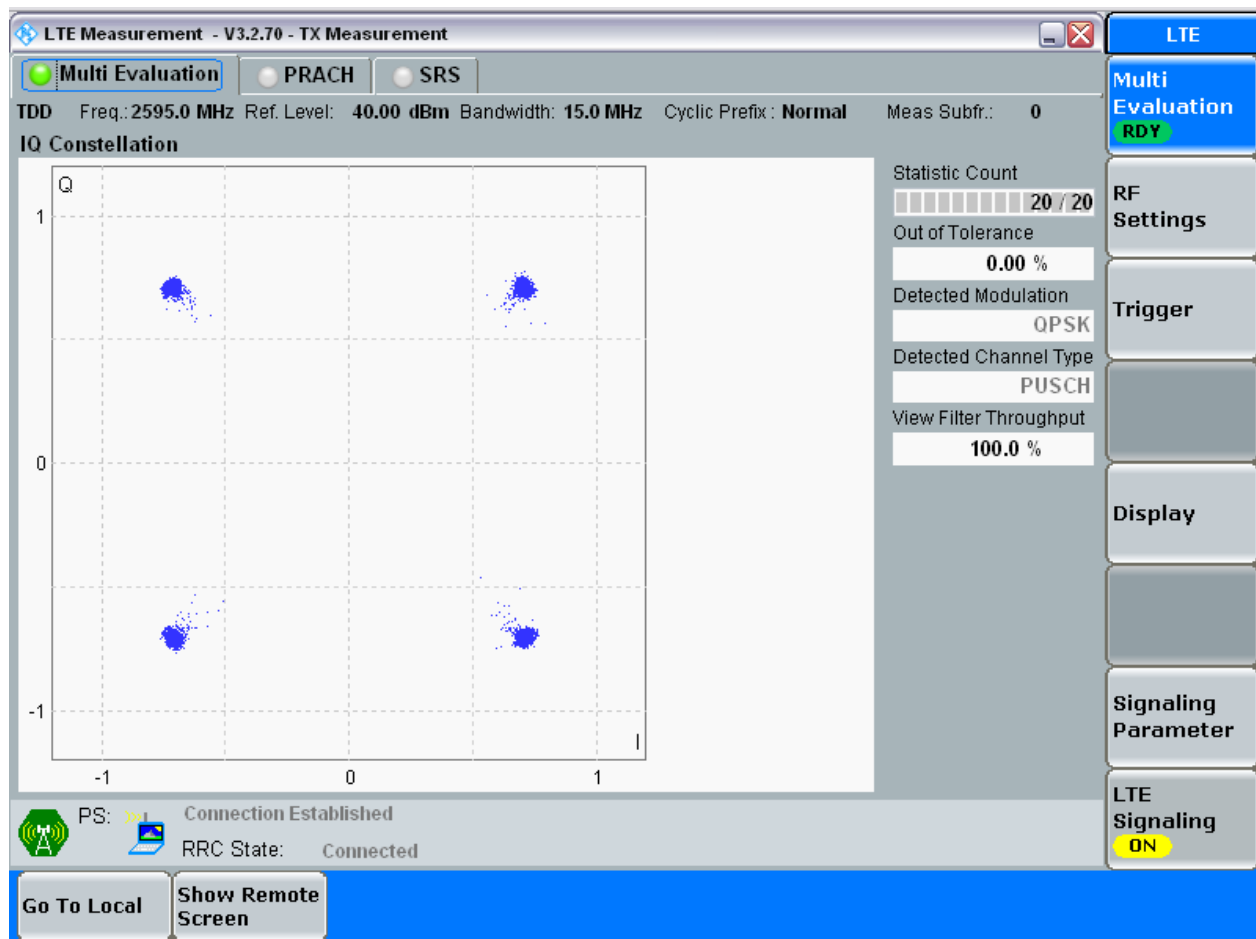
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

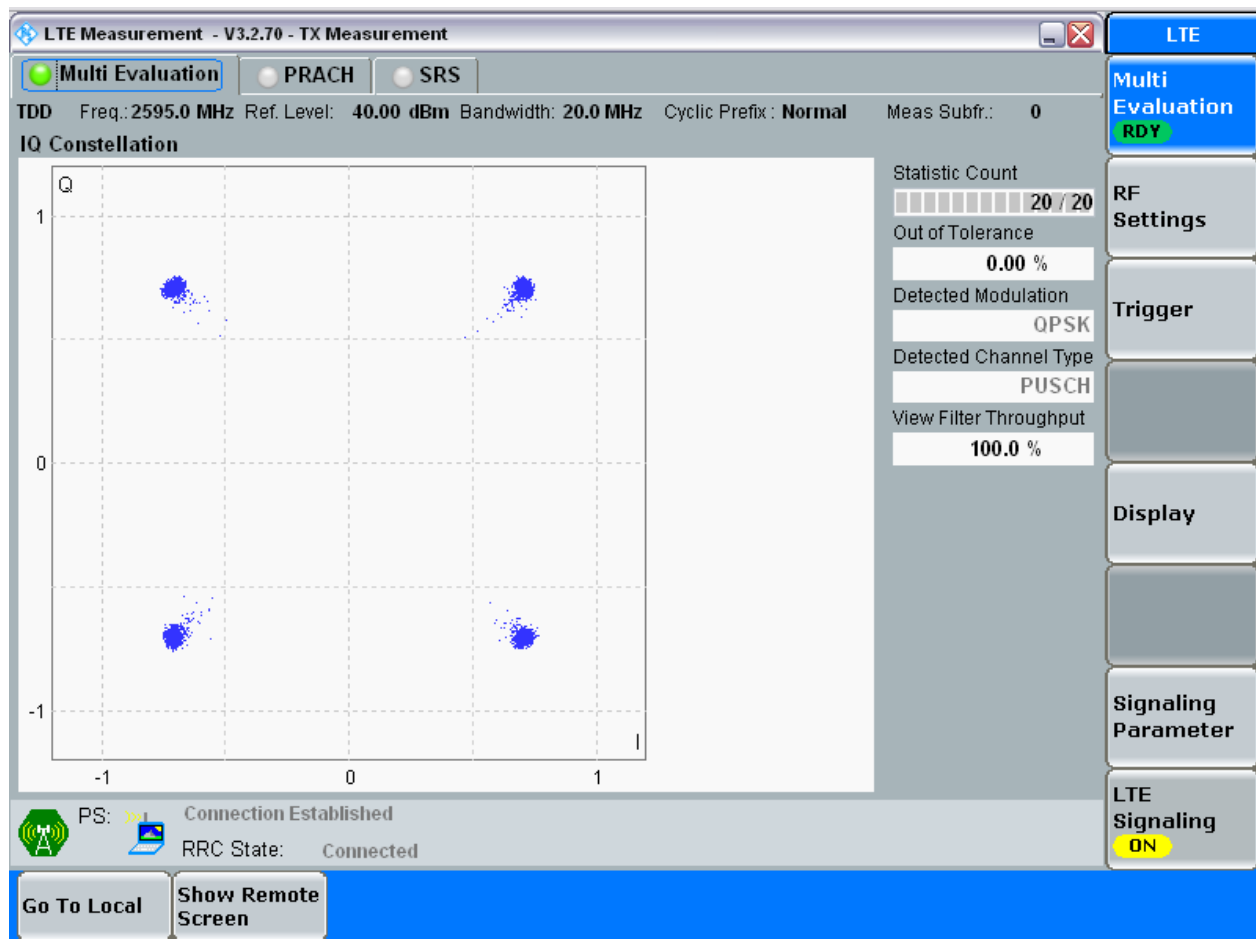
3.1.1.1.3.1.1 Test RB = RB75#0



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

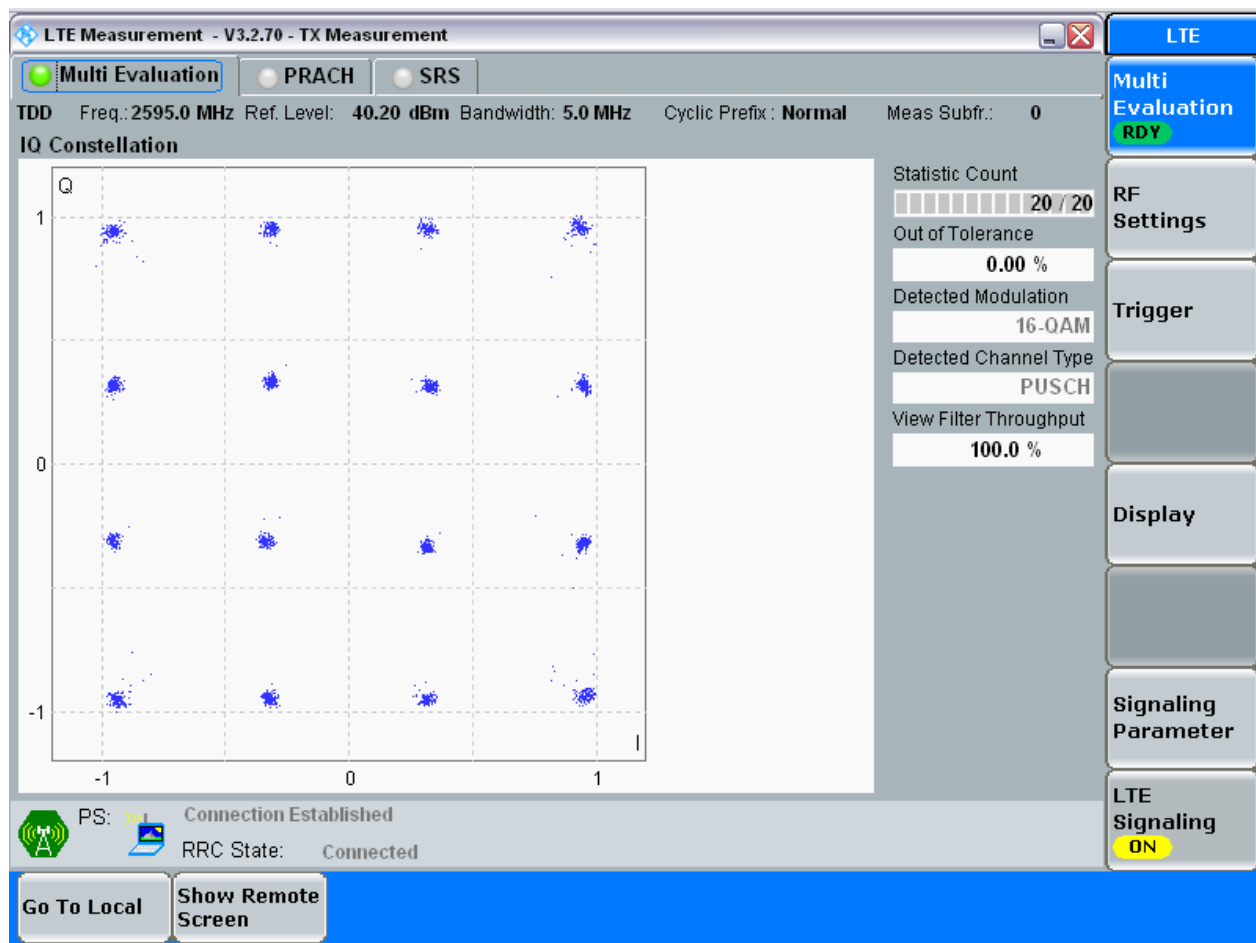


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

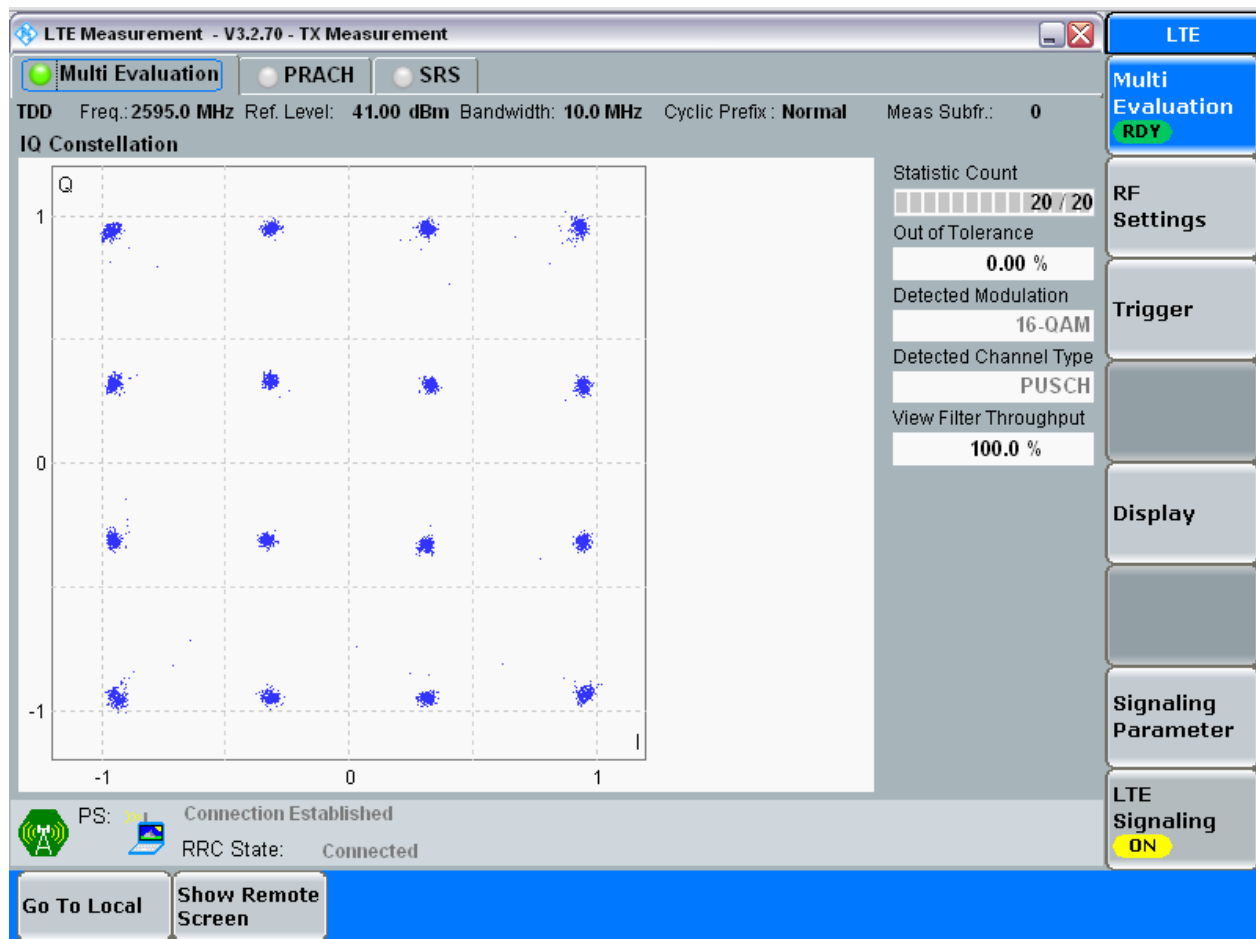
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

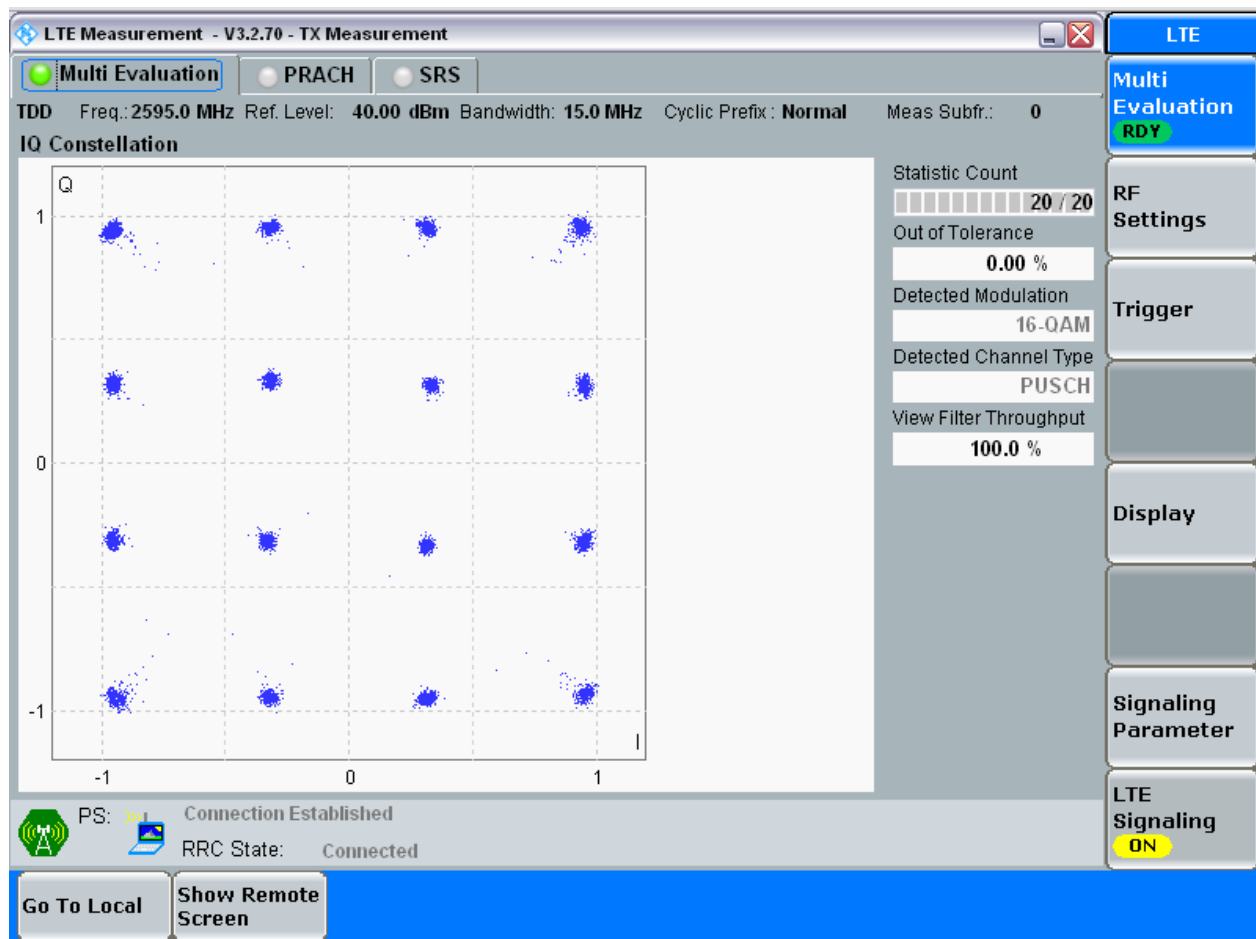
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

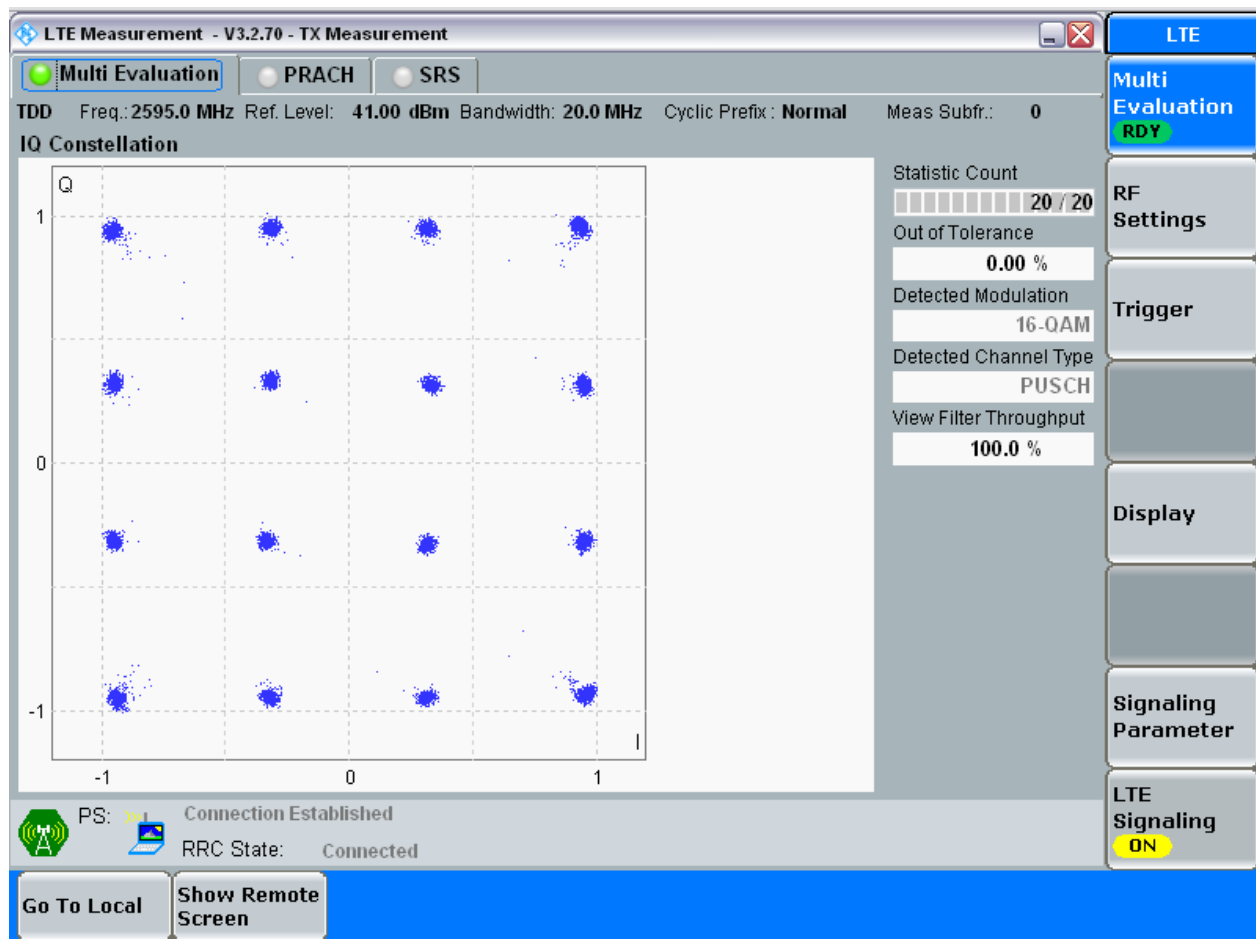
3.1.1.2.3.1.1 Test RB = RB75#0



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
BAND38	LTE/TM1	5	LCH	RB25#0	4.51	4.98	Pass
			MCH	RB25#0	4.49	4.97	Pass
			HCH	RB25#0	4.50	5.12	Pass
		10	LCH	RB50#0	8.97	10.39	Pass
			MCH	RB50#0	8.97	10.01	Pass
			HCH	RB50#0	8.97	10.51	Pass
		15	LCH	RB75#0	13.44	14.83	Pass
			MCH	RB75#0	13.46	14.81	Pass
			HCH	RB75#0	13.46	15.10	Pass
		20	LCH	RB100#0	17.93	19.59	Pass
			MCH	RB100#0	17.94	19.74	Pass
			HCH	RB100#0	17.90	20.85	Pass
	LTE/TM2	5	LCH	RB25#0	4.50	5.32	Pass
			MCH	RB25#0	4.50	5.29	Pass
			HCH	RB25#0	4.50	5.24	Pass
		10	LCH	RB50#0	8.93	10.21	Pass
			MCH	RB50#0	8.92	10.18	Pass
			HCH	RB50#0	8.96	9.87	Pass
		15	LCH	RB75#0	13.44	15.44	Pass
			MCH	RB75#0	13.43	15.28	Pass
			HCH	RB75#0	13.46	15.51	Pass
		20	LCH	RB100#0	17.95	22.17	Pass
			MCH	RB100#0	17.93	22.53	Pass
			HCH	RB100#0	17.88	19.74	Pass



Part II - Test Plots

4.1 For LTE

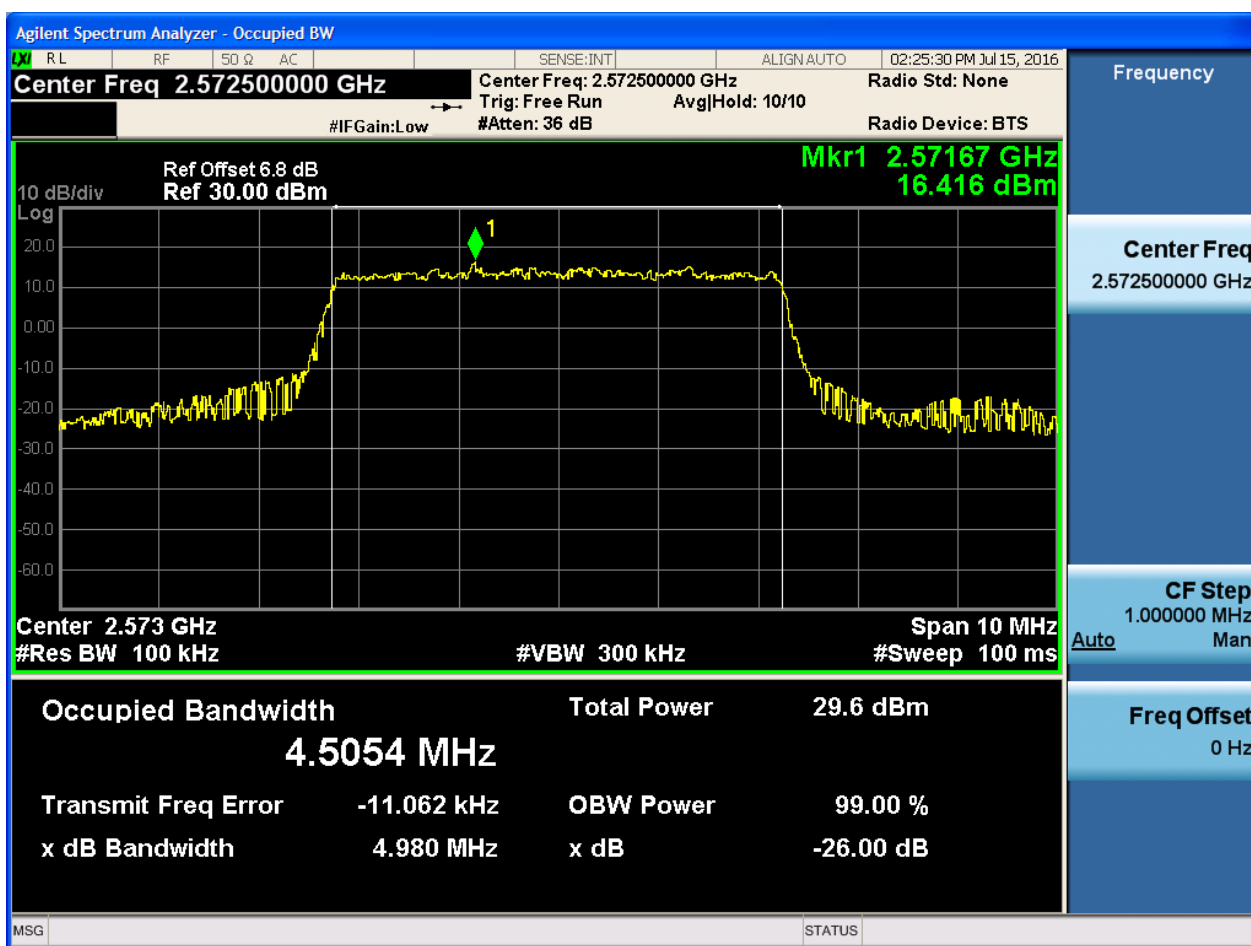
4.1.1 Test Band = BAND38

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

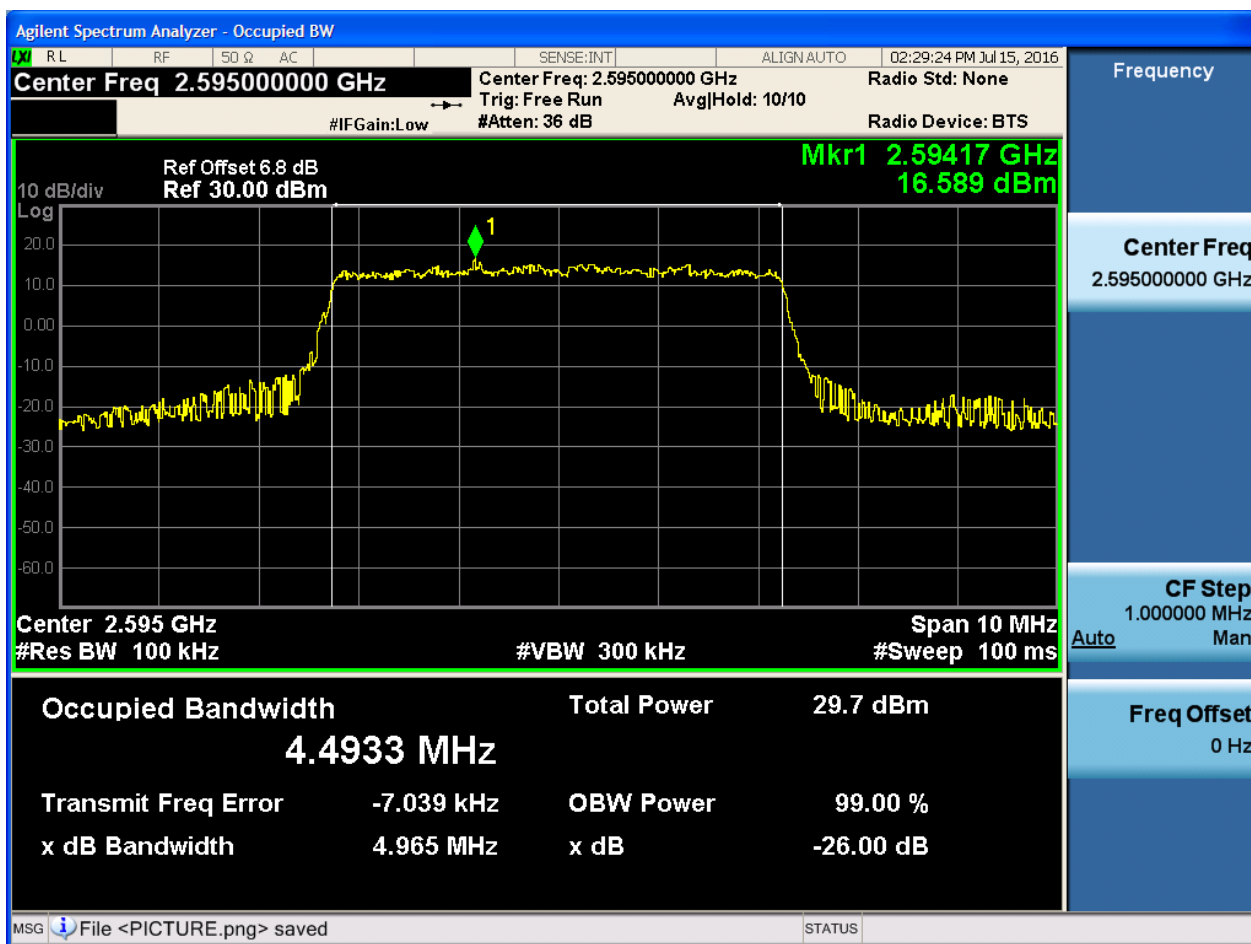
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

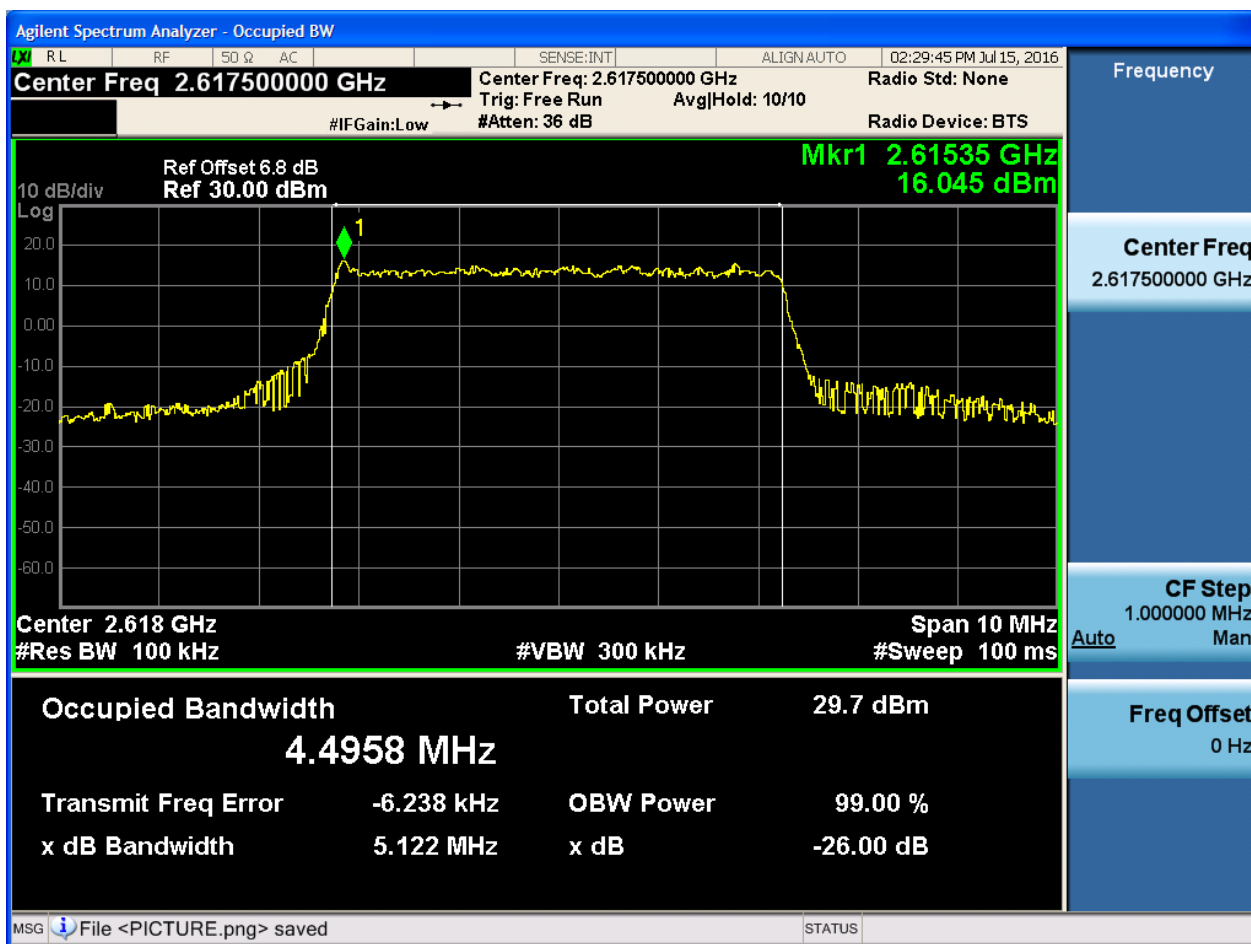
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

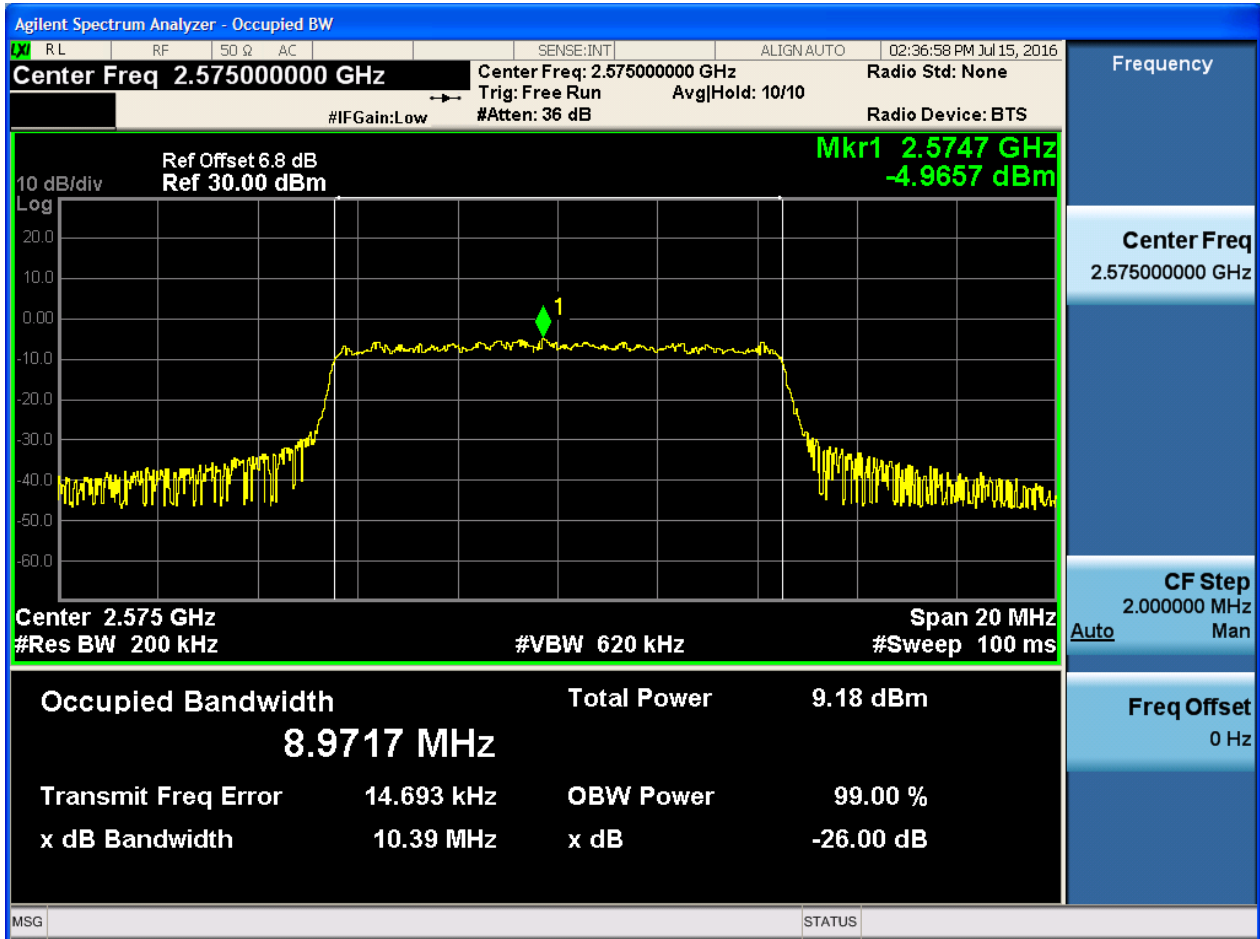




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

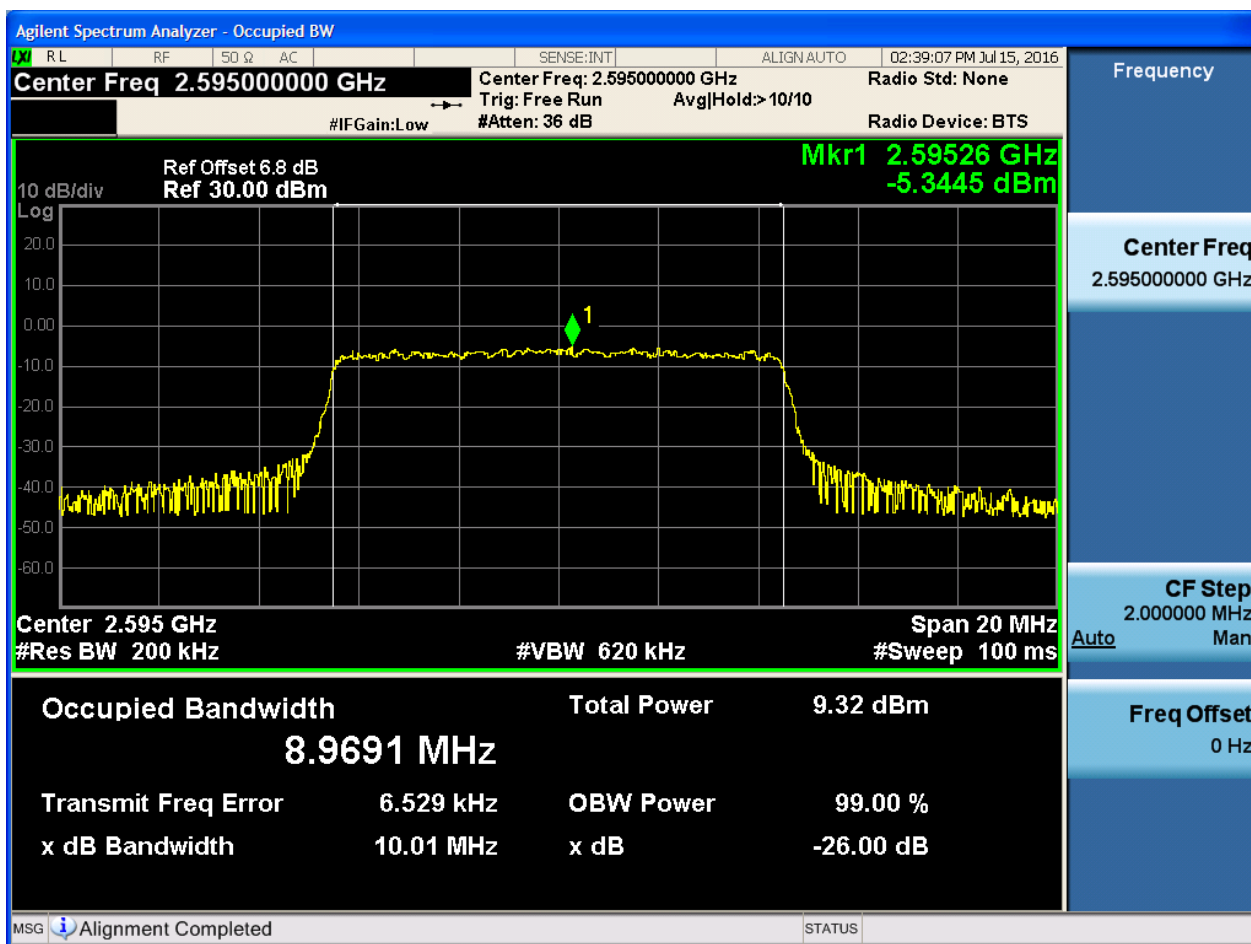
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

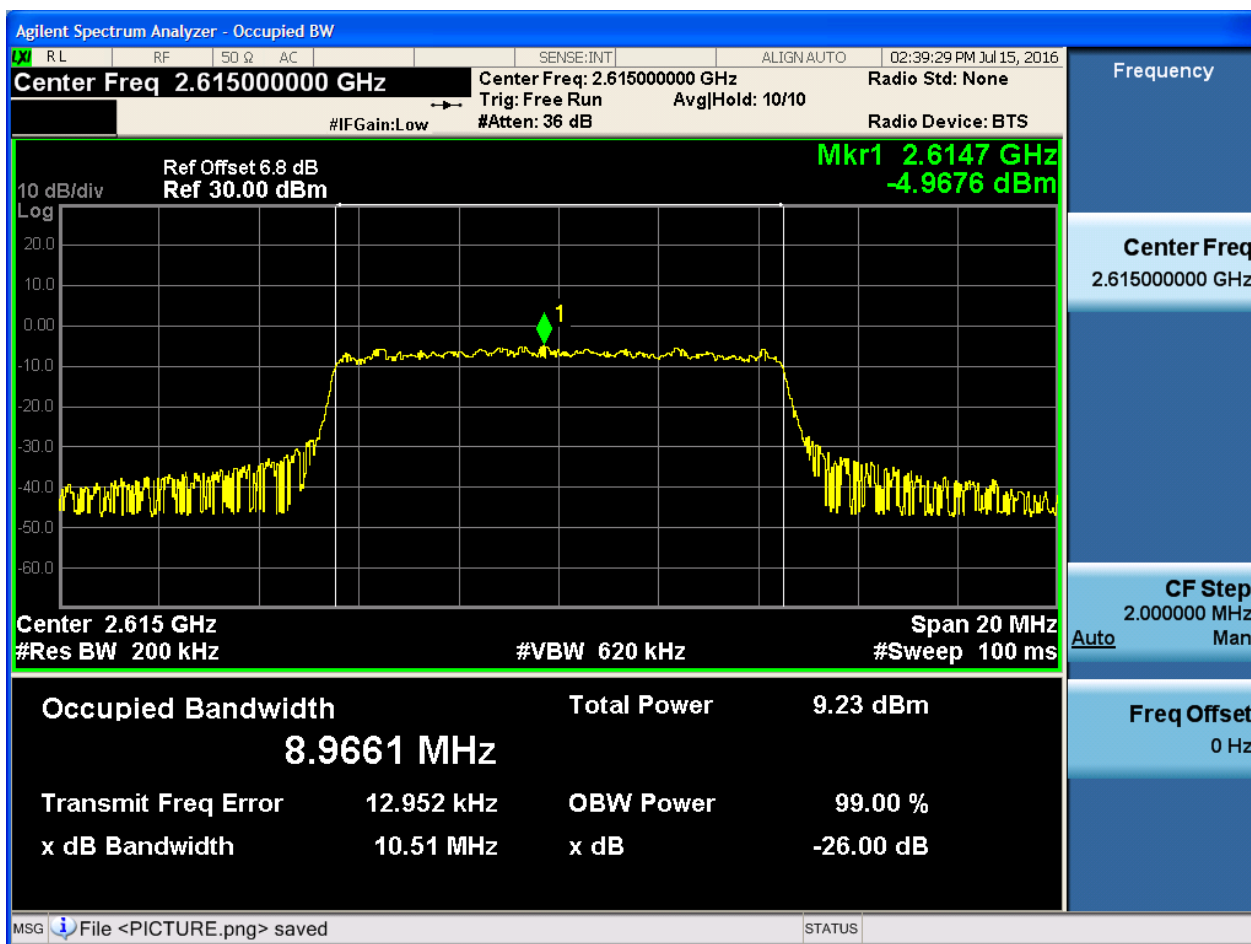
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

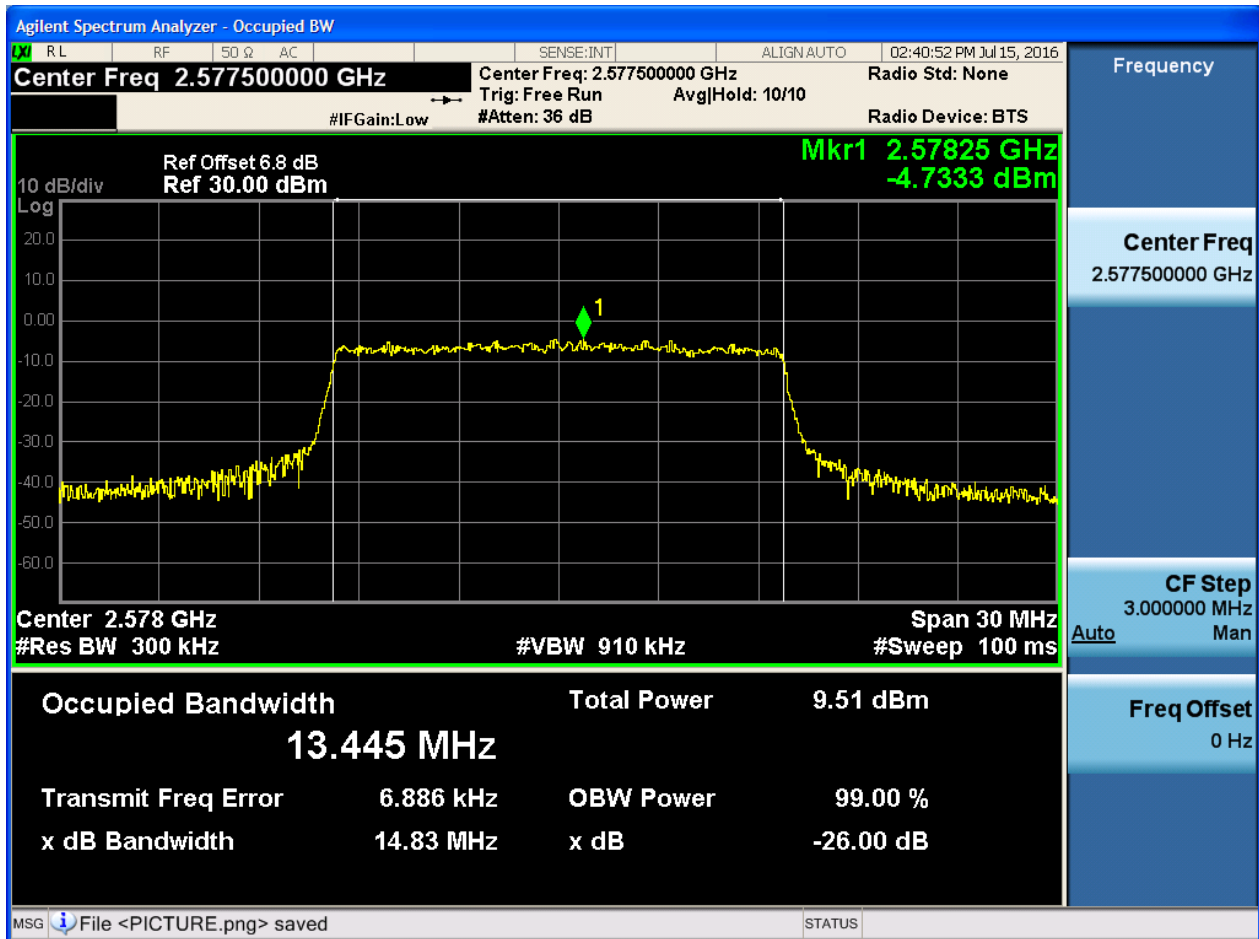




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

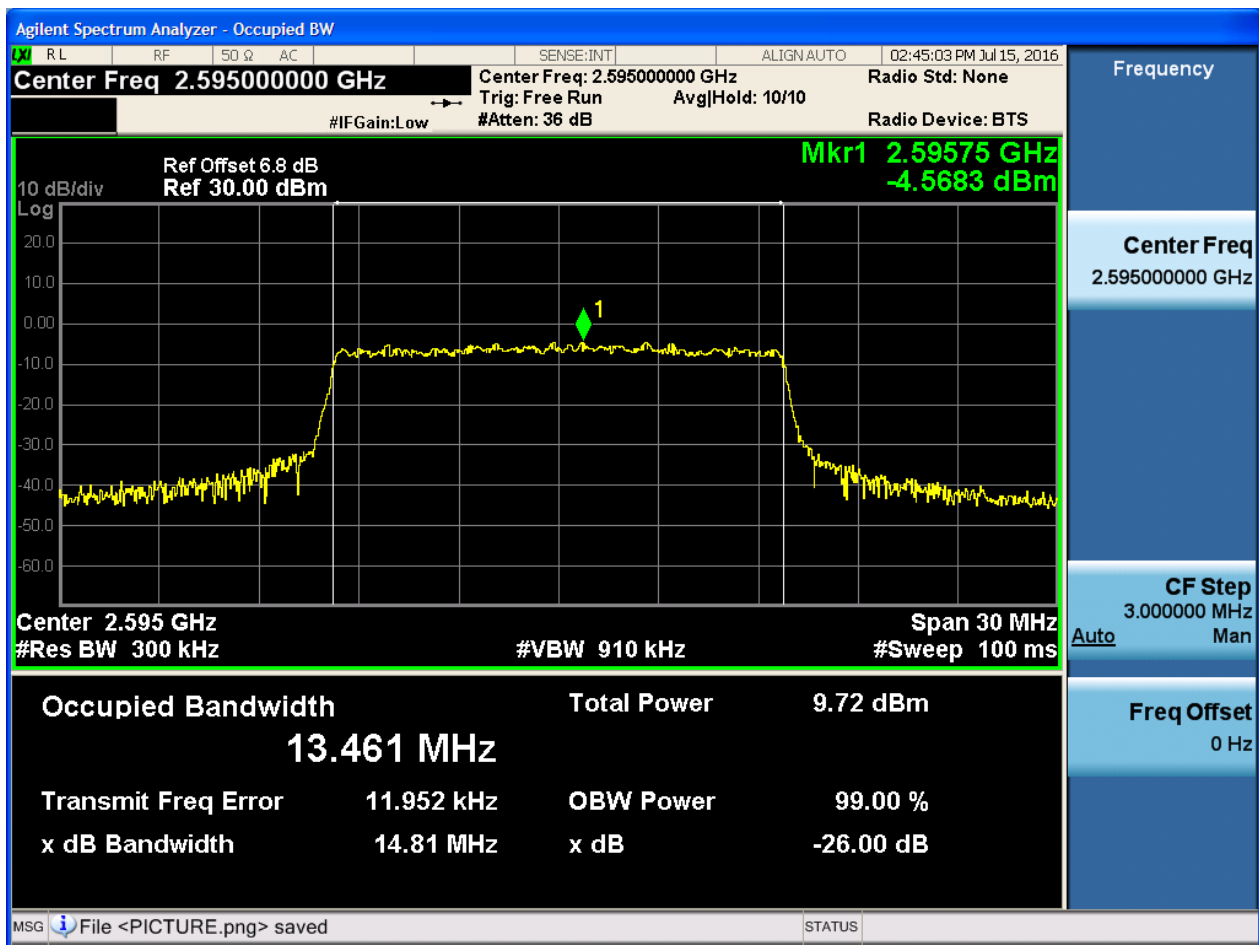
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

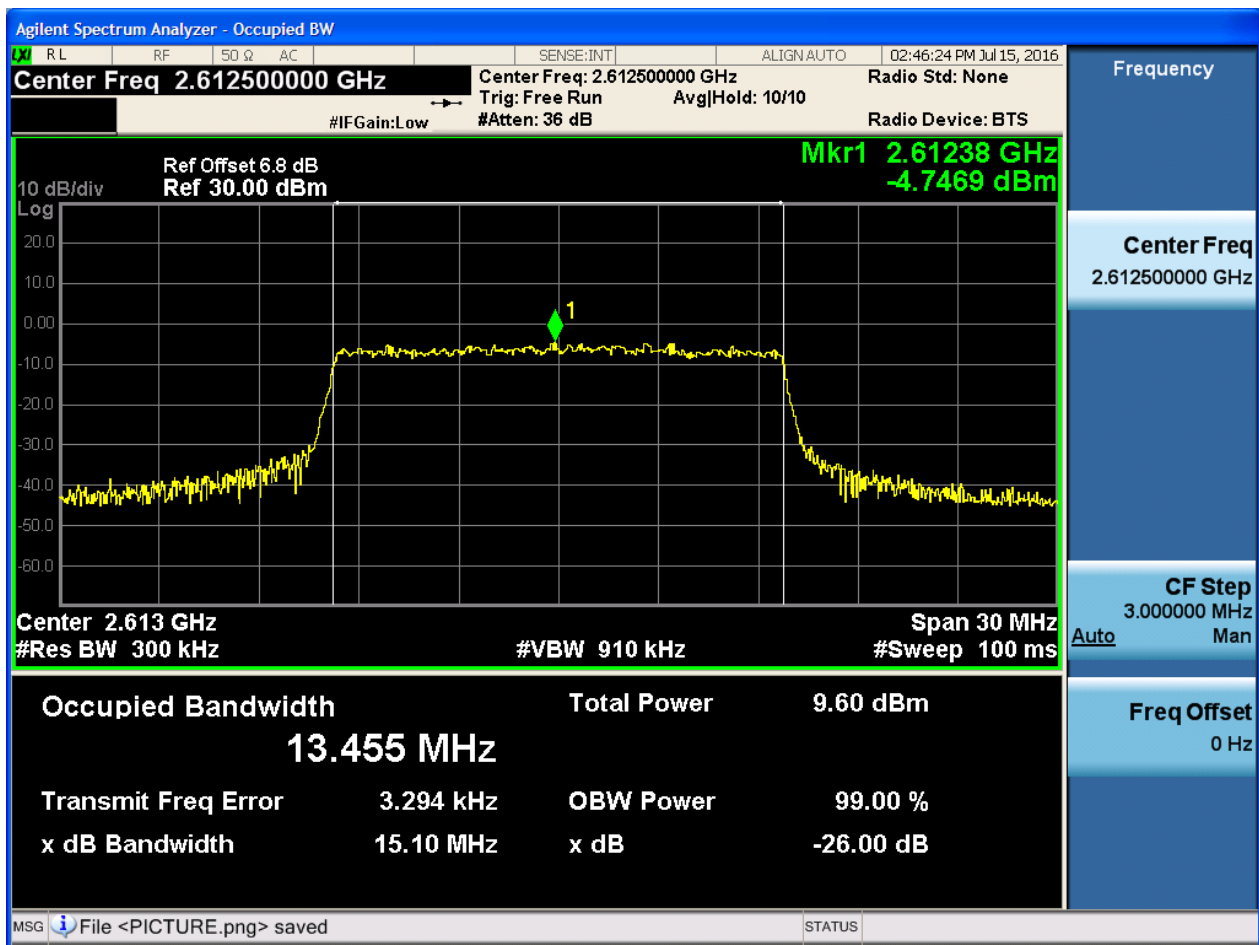
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

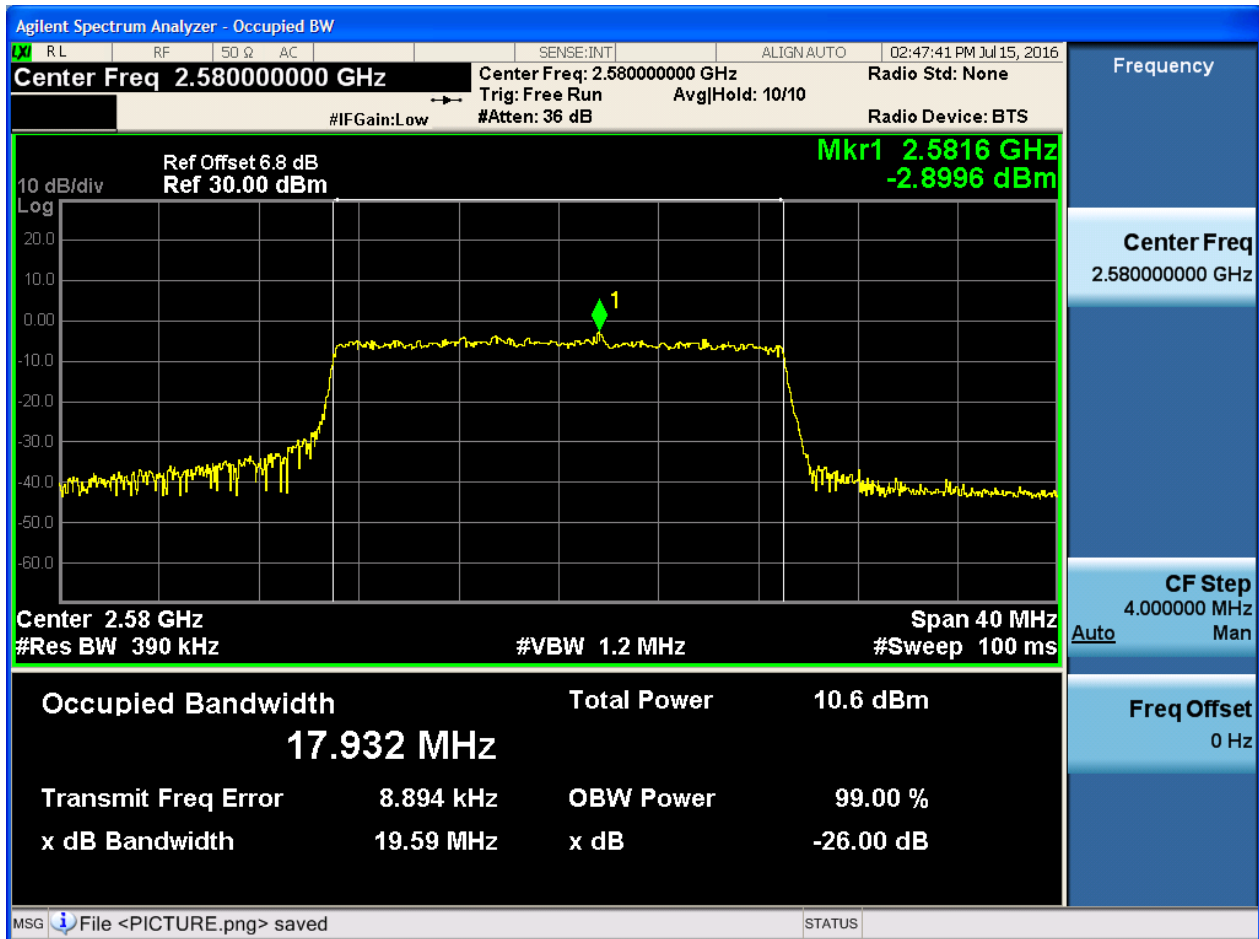




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

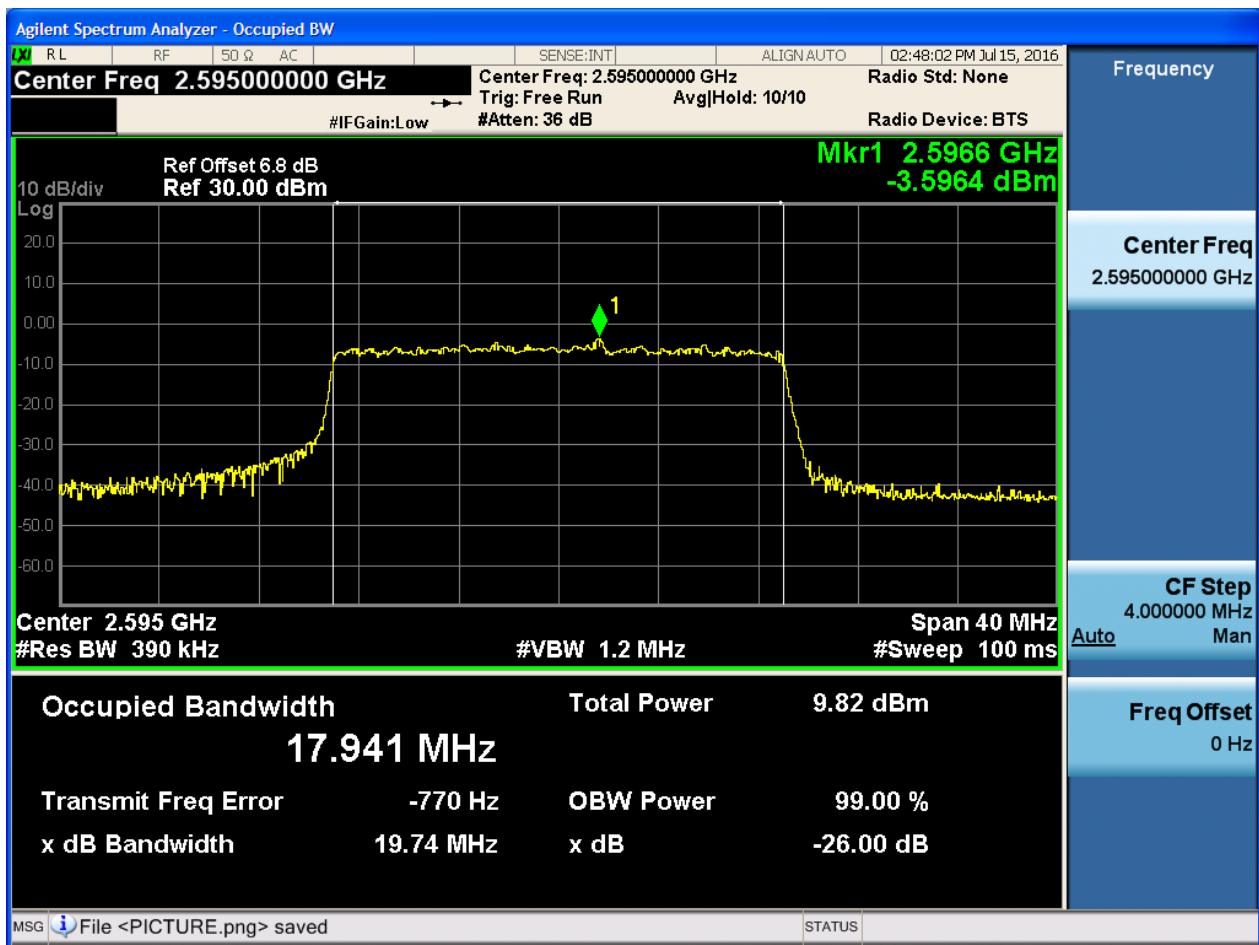
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

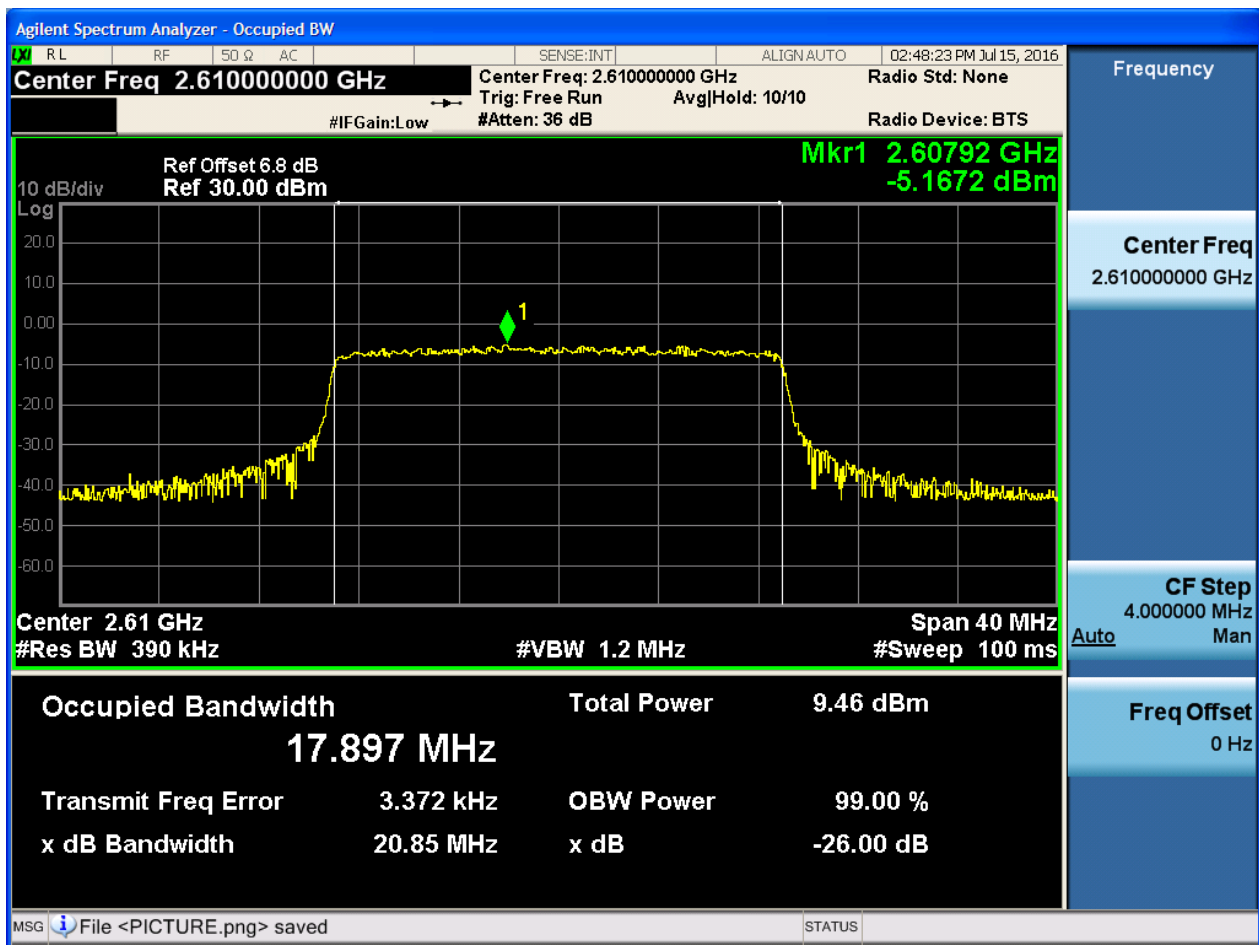
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



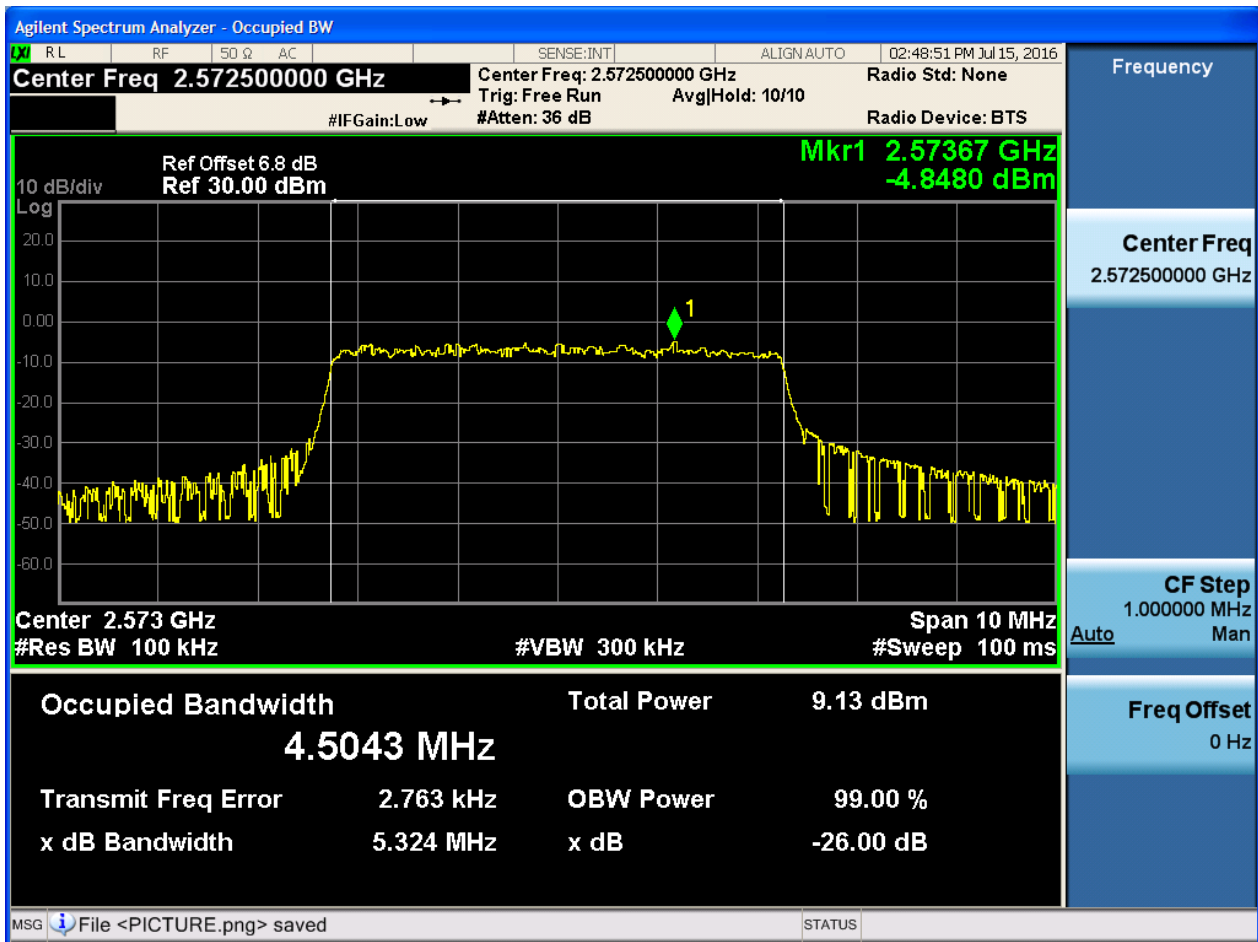


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

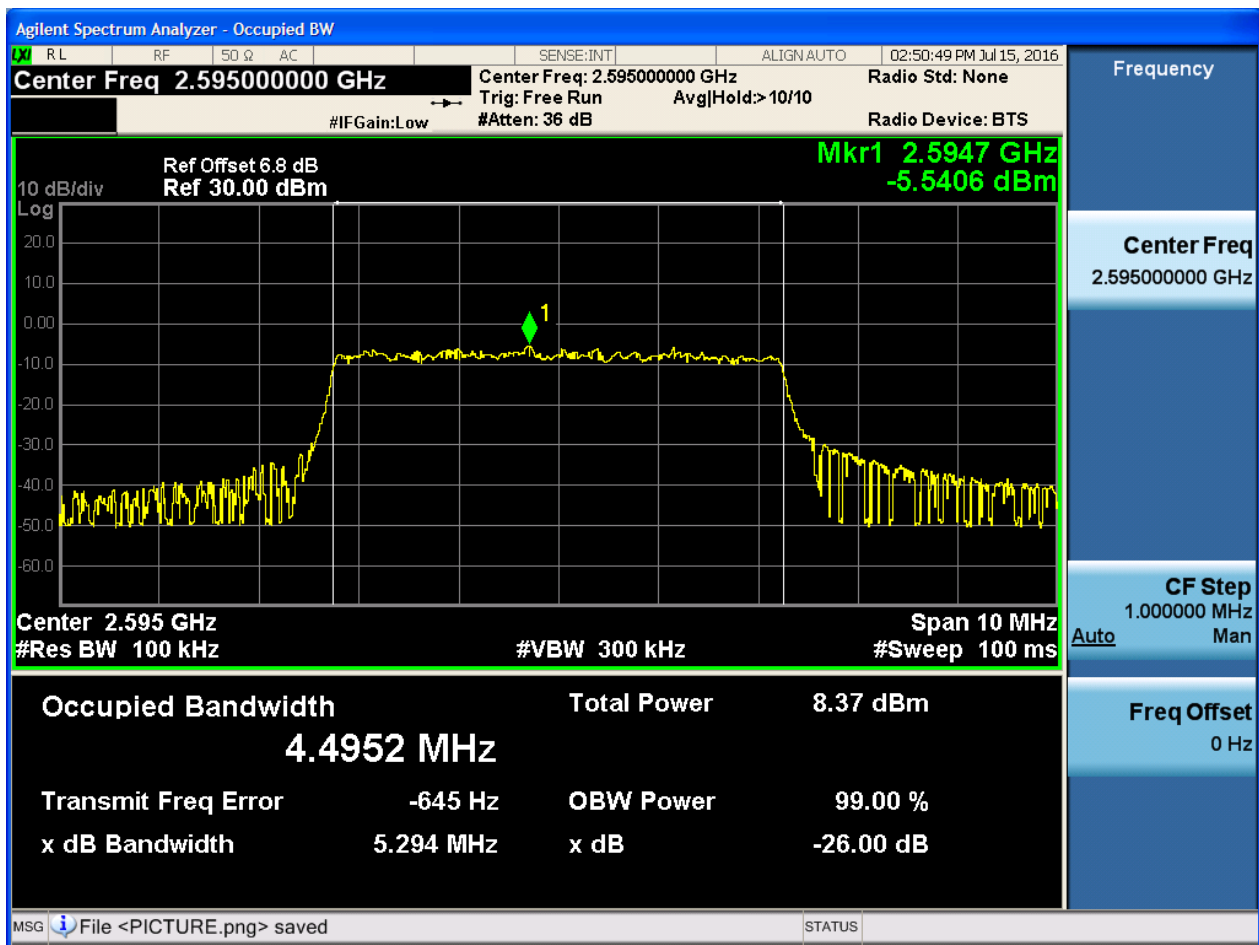
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

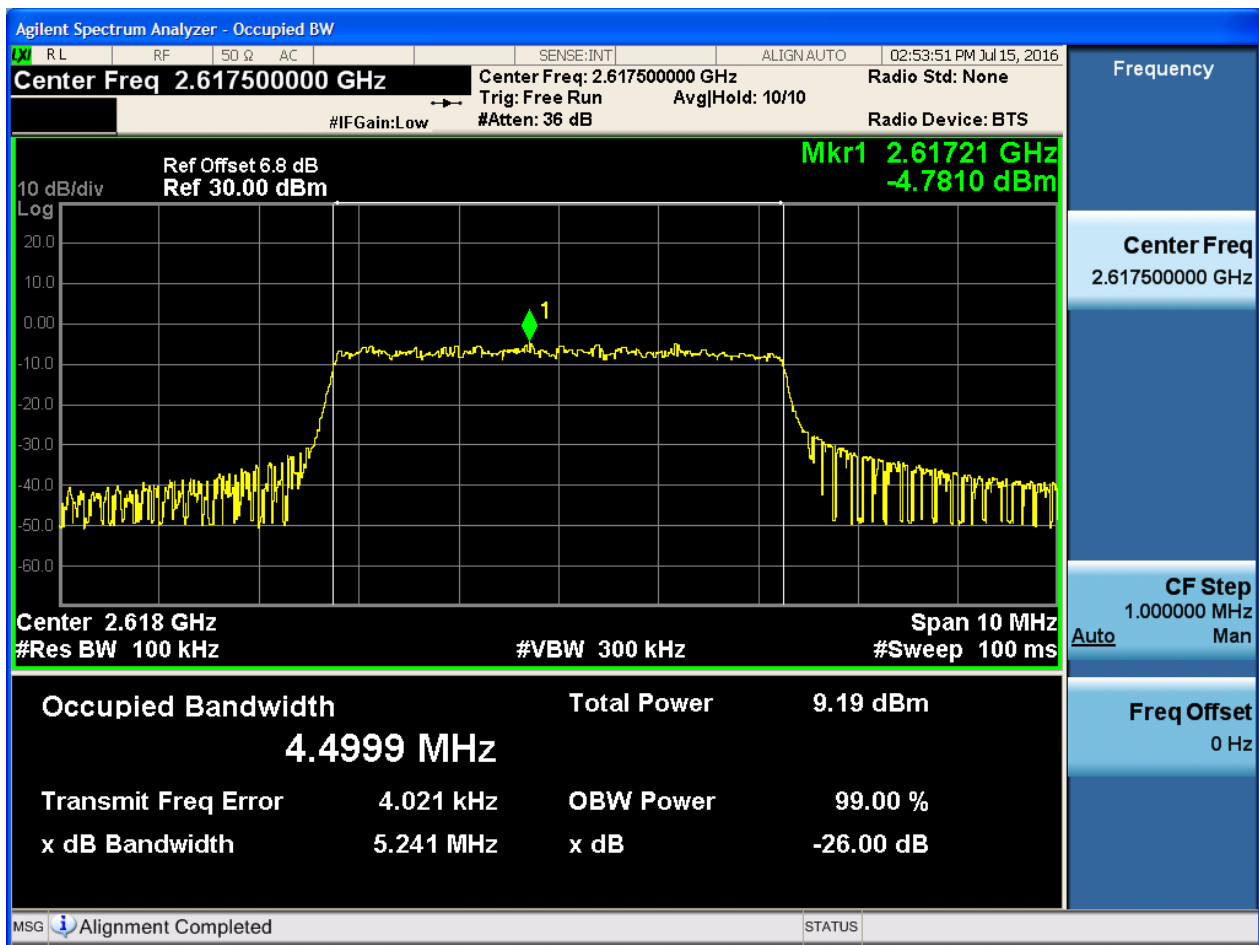
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

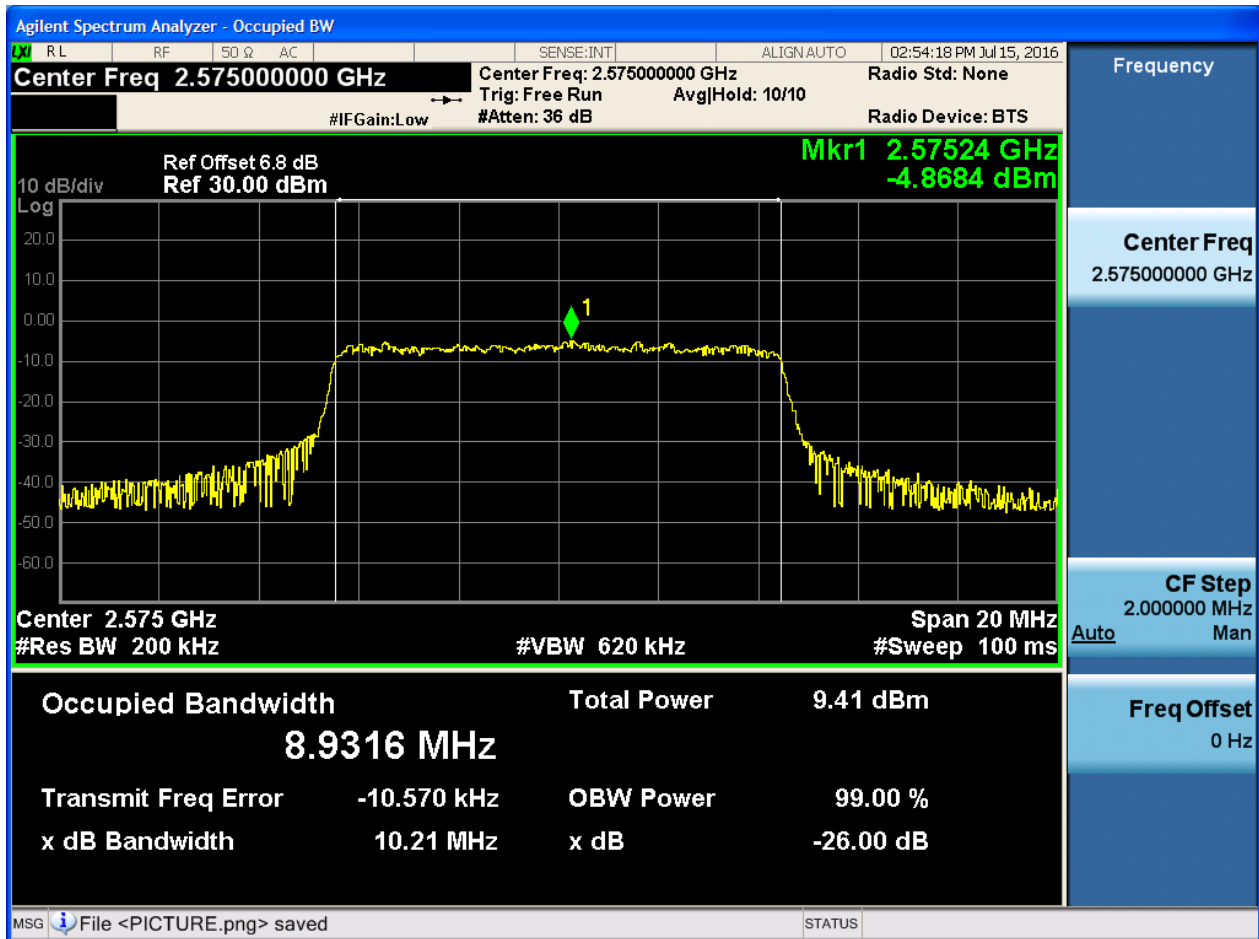




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

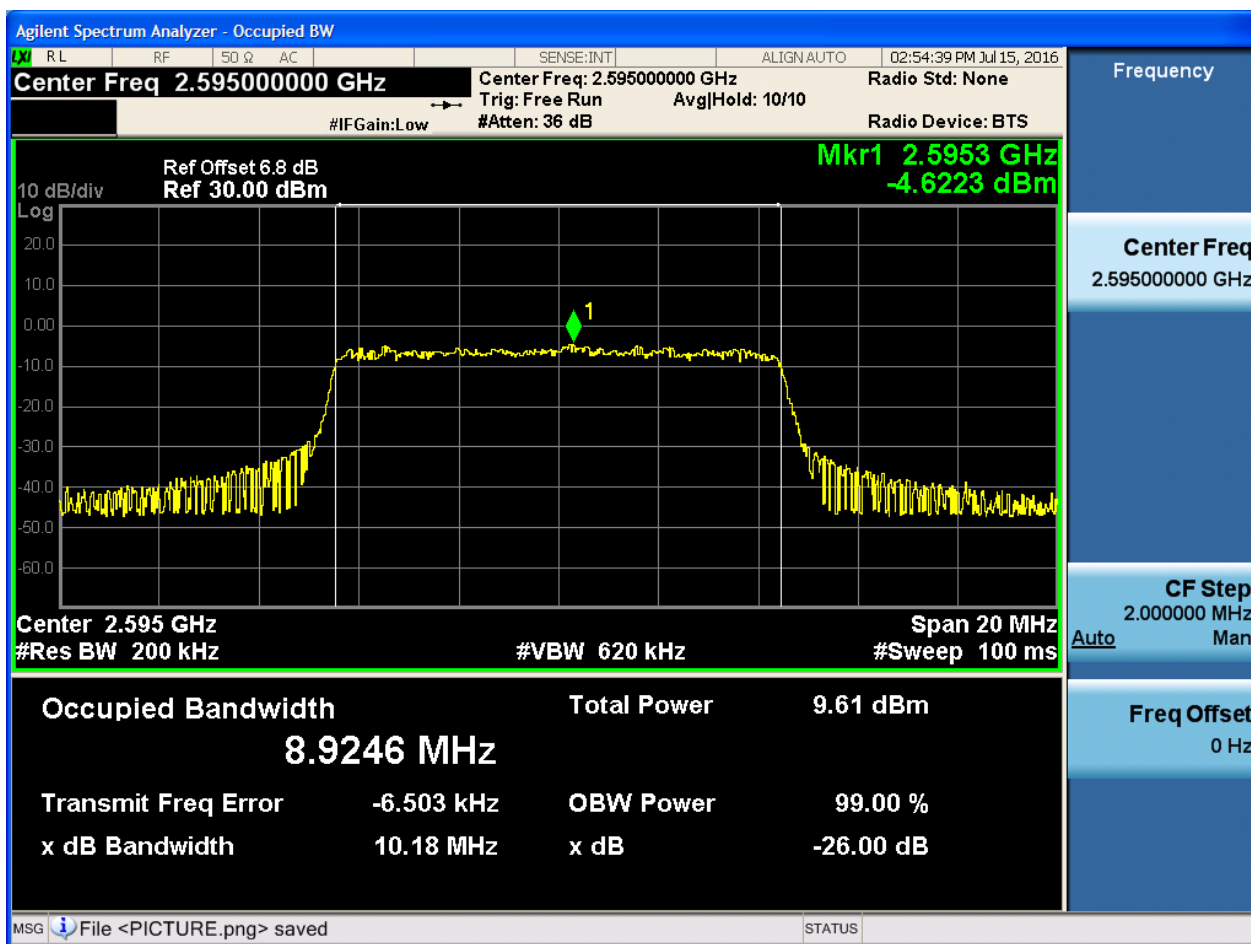
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

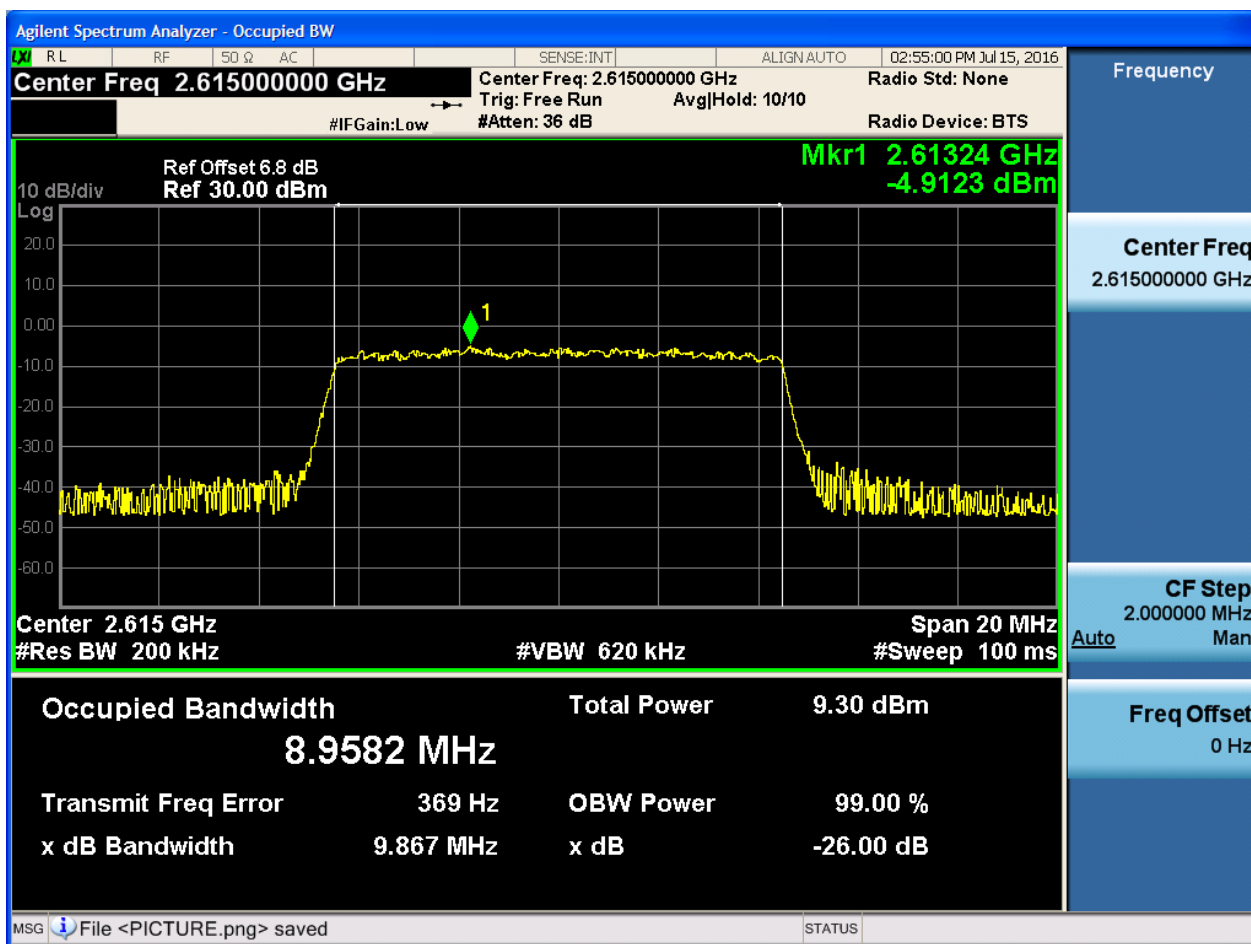
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

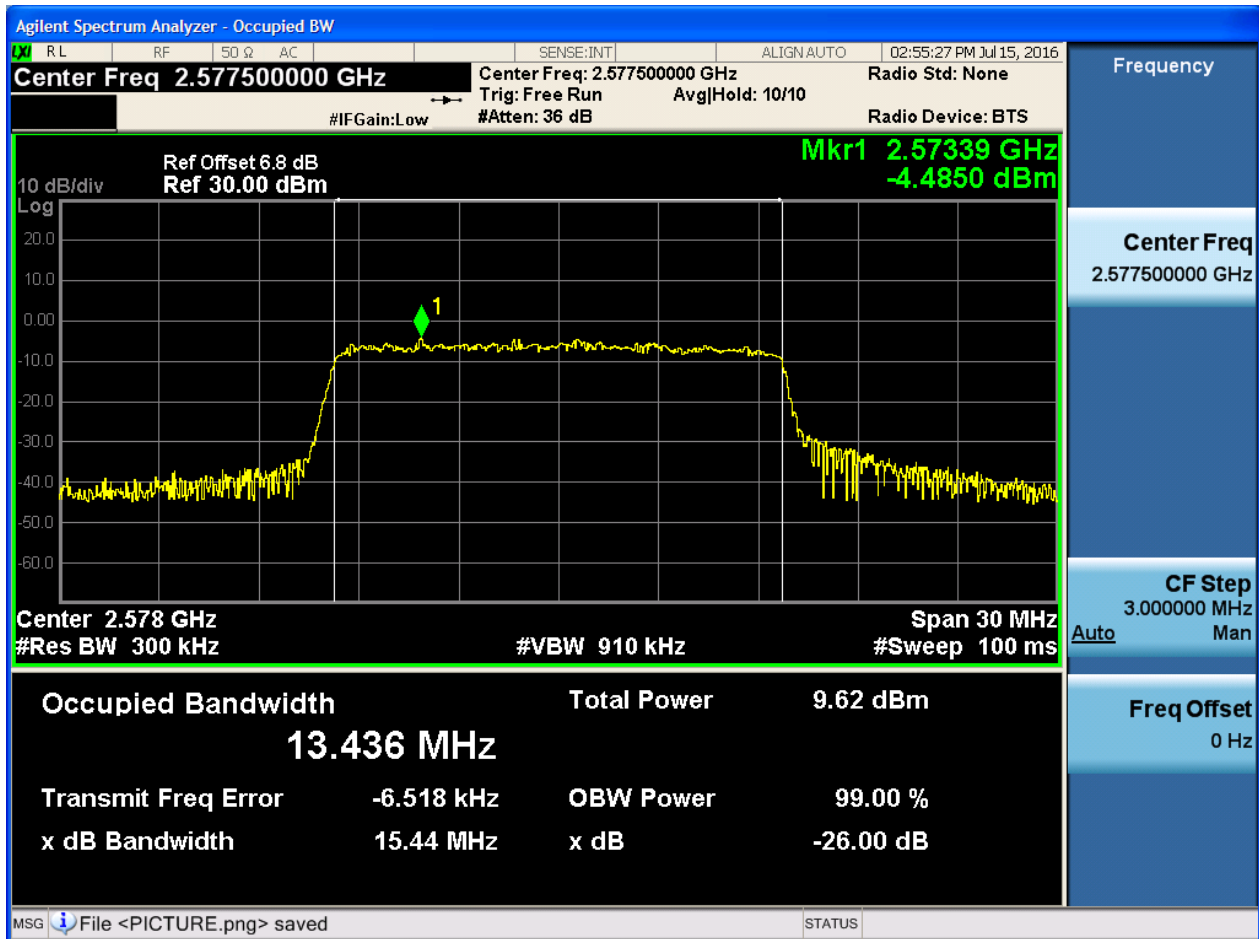




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

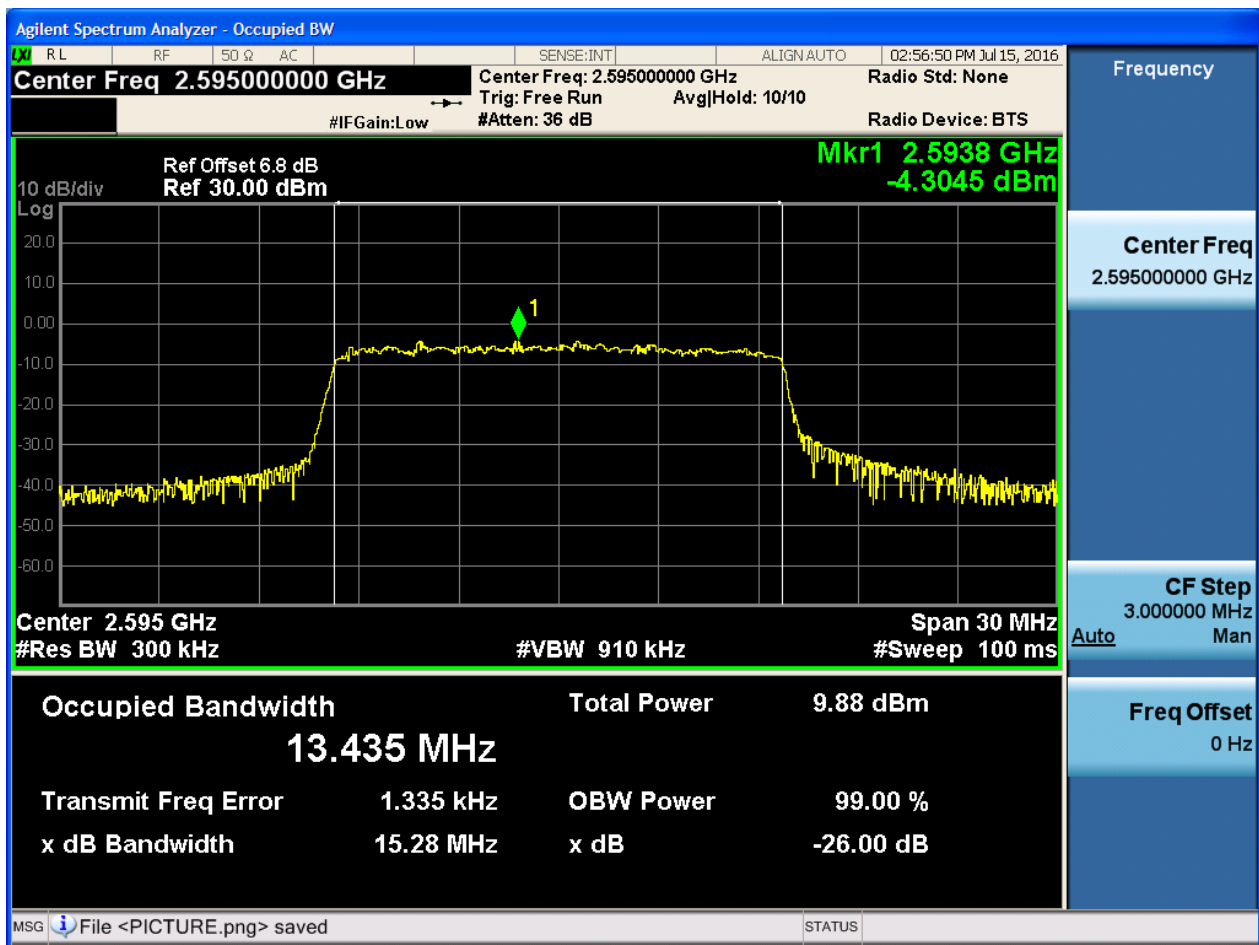
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

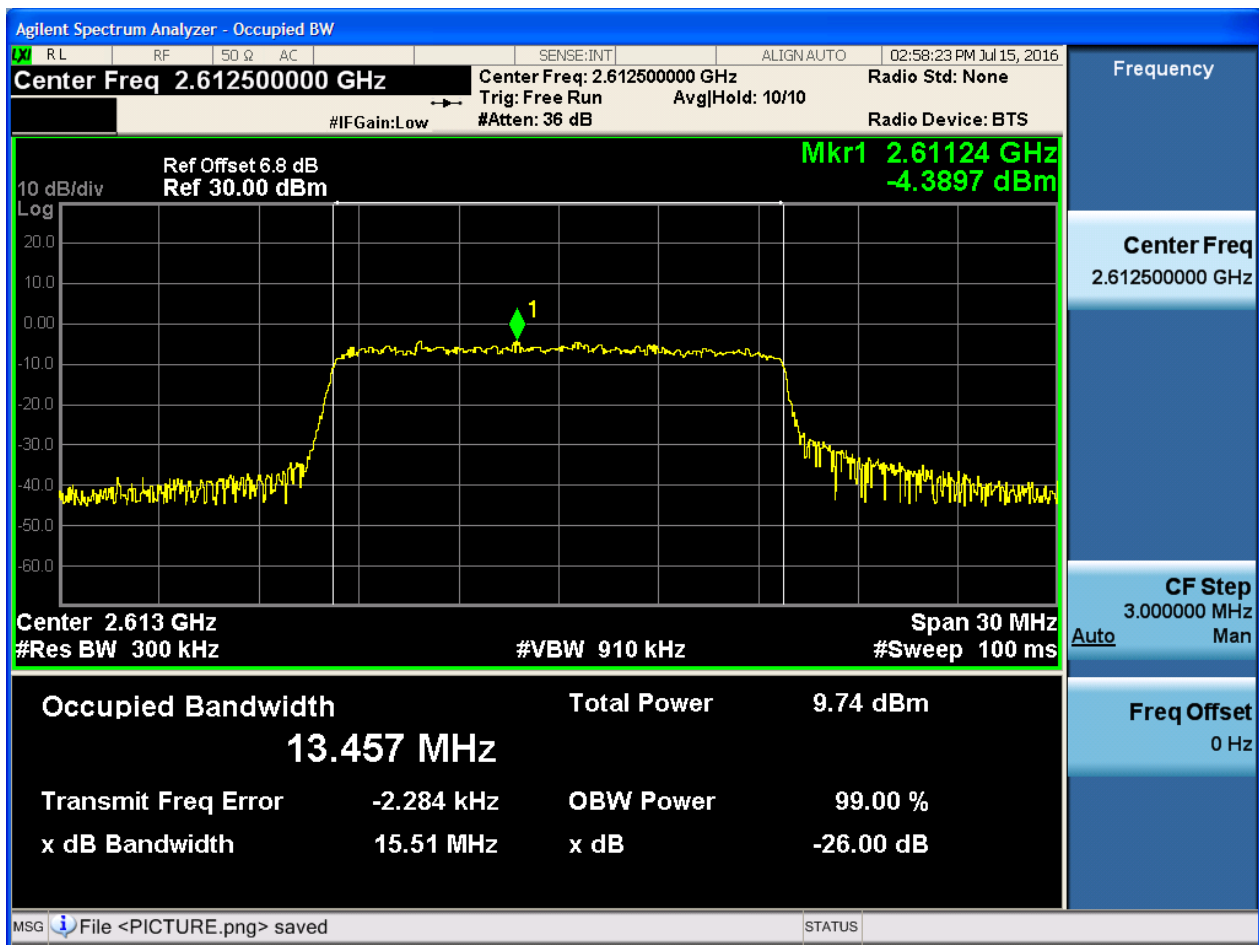
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

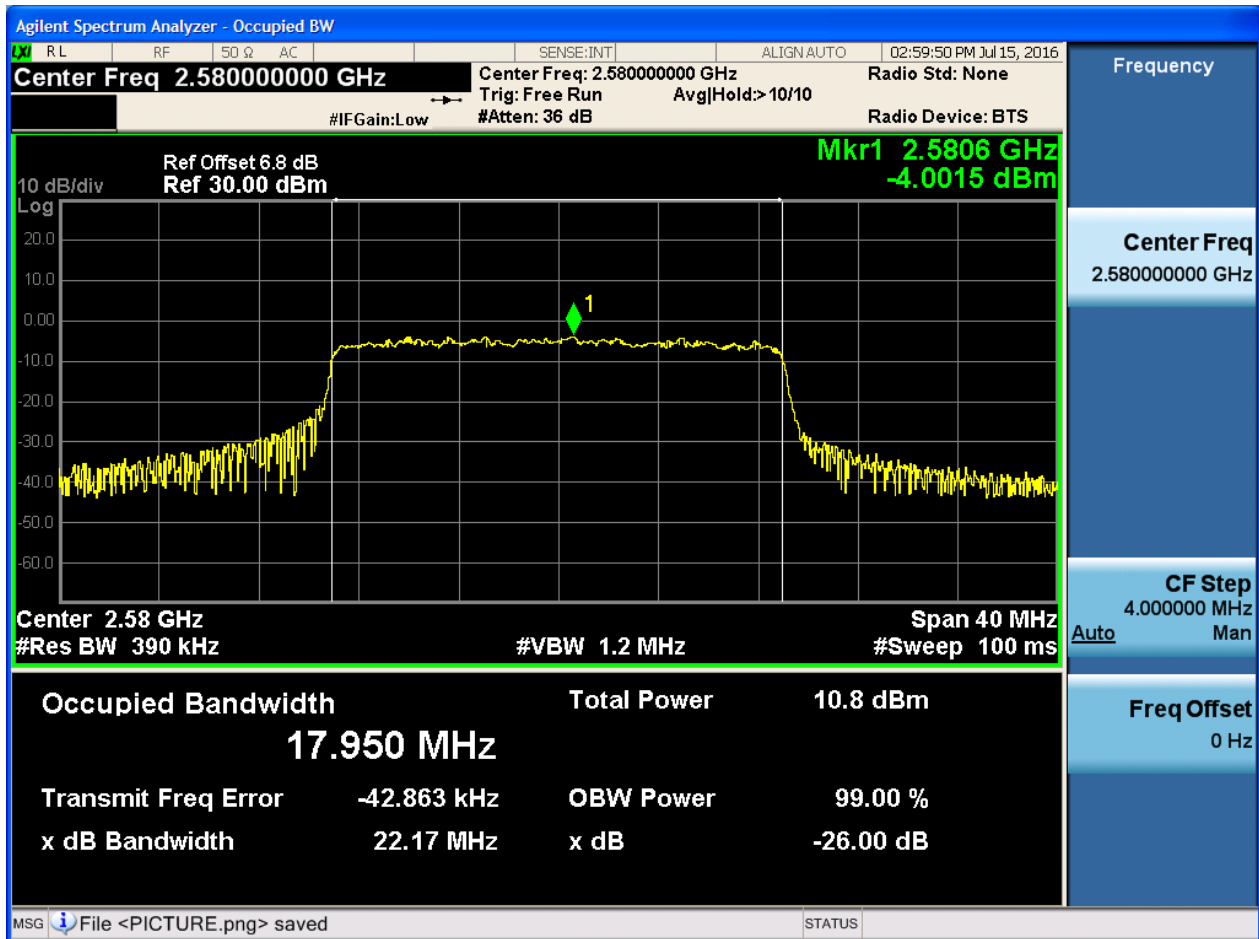


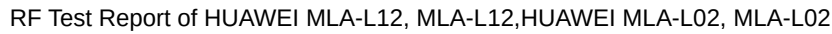


4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



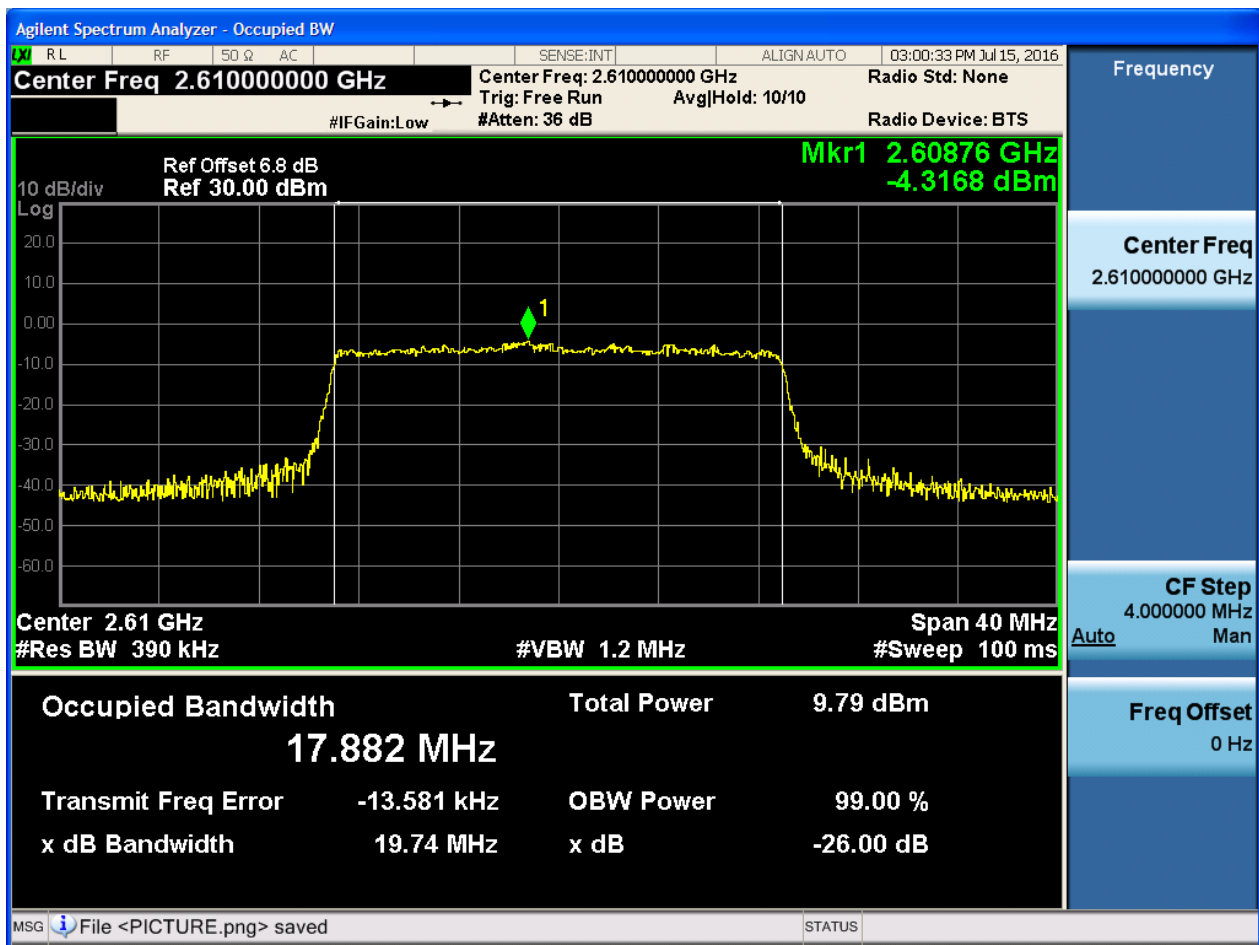


4.1.1.2.4.2.1 Test RB = RB100#0



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

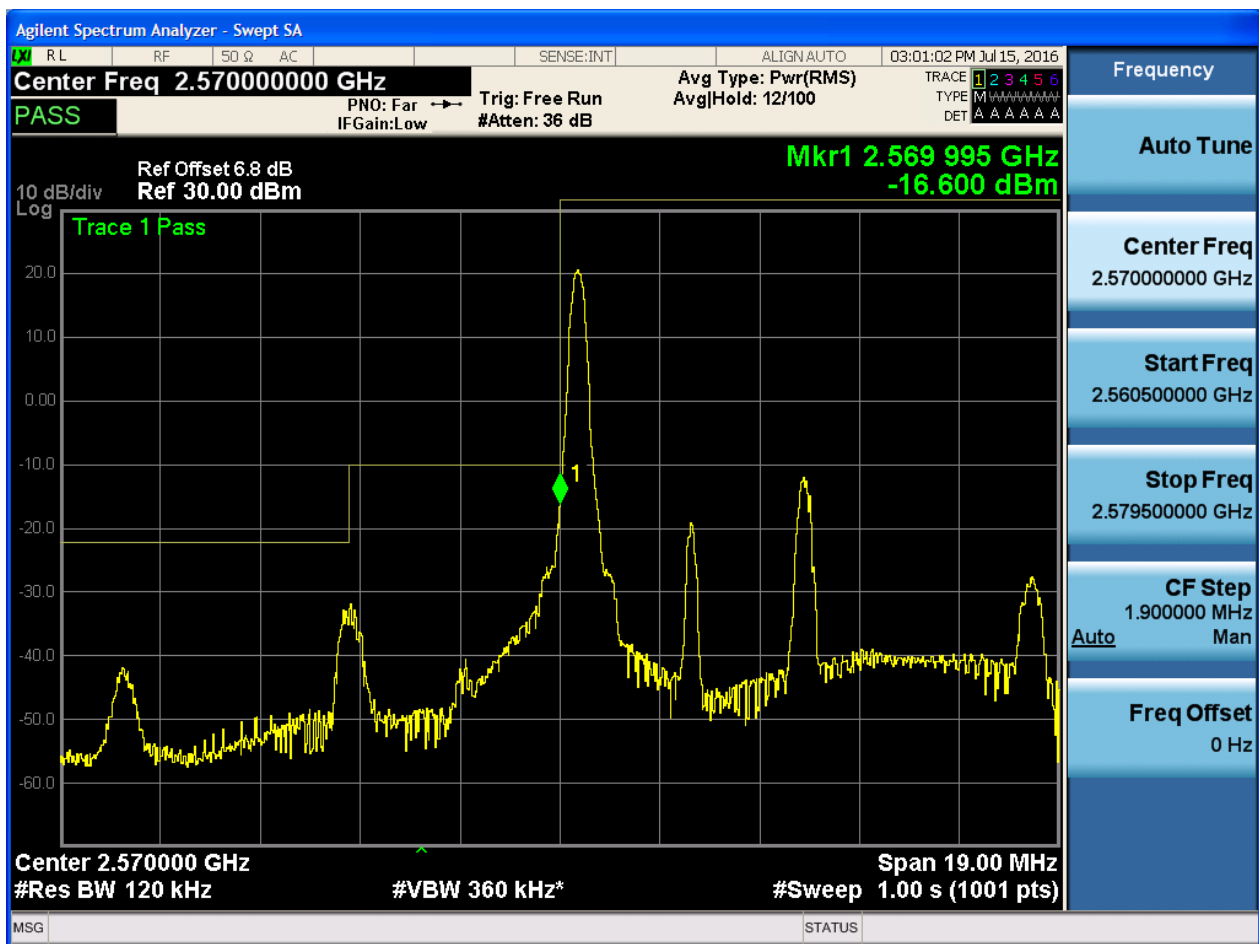
5.1.1 Test Band = BAND38

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

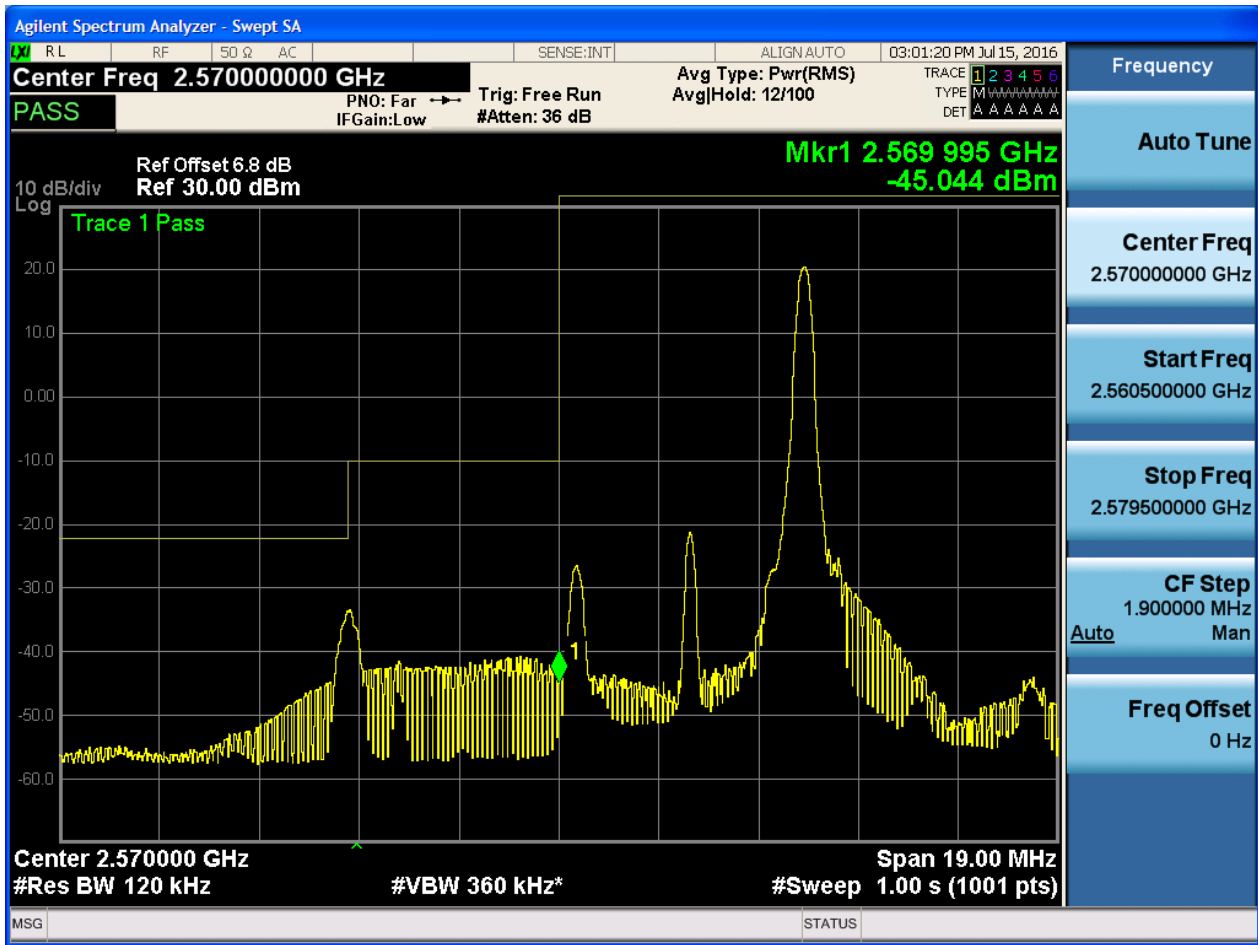
5.1.1.1.1.1 Test Channel = LCH

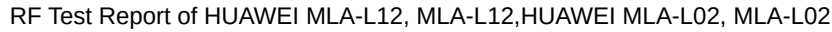
5.1.1.1.1.1.1 Test RB = RB1#0





5.1.4.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.569 995 GHz
-27.880 dBm

Trace 1 Pass

Center 2.570000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.560500000 GHz

Stop Freq
2.579500000 GHz

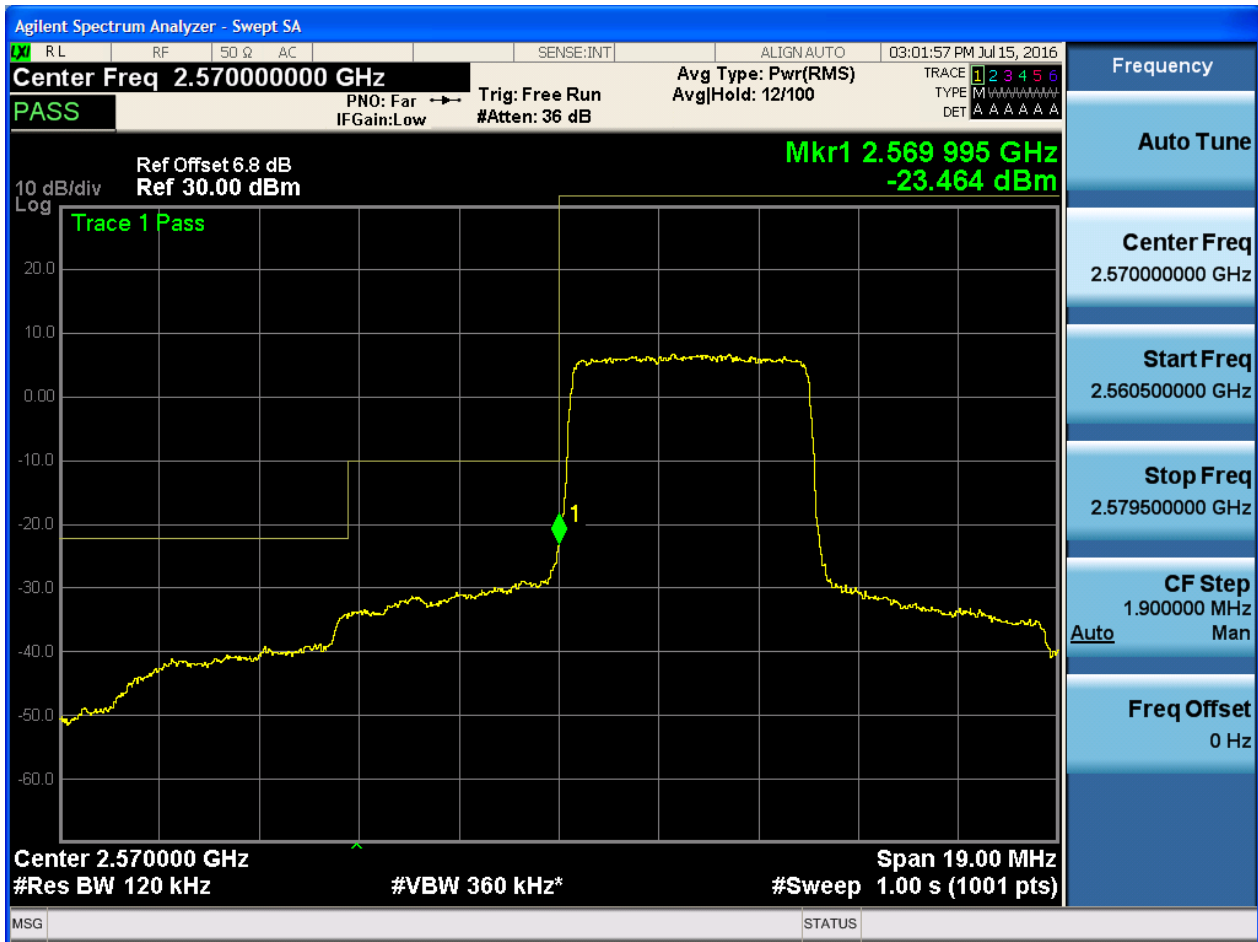
CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz



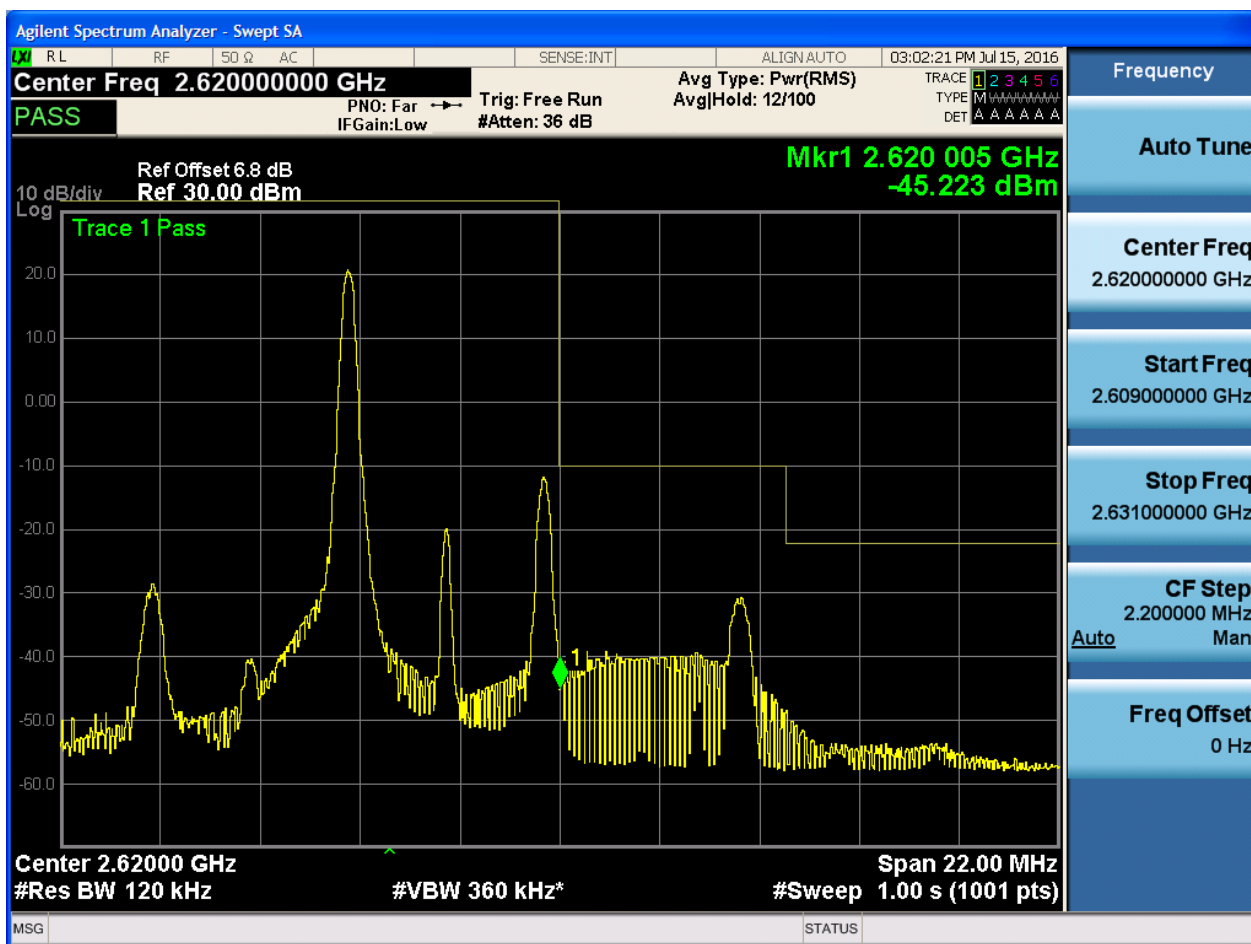
5.1.4.1.1.4 Test RB = RB25#0





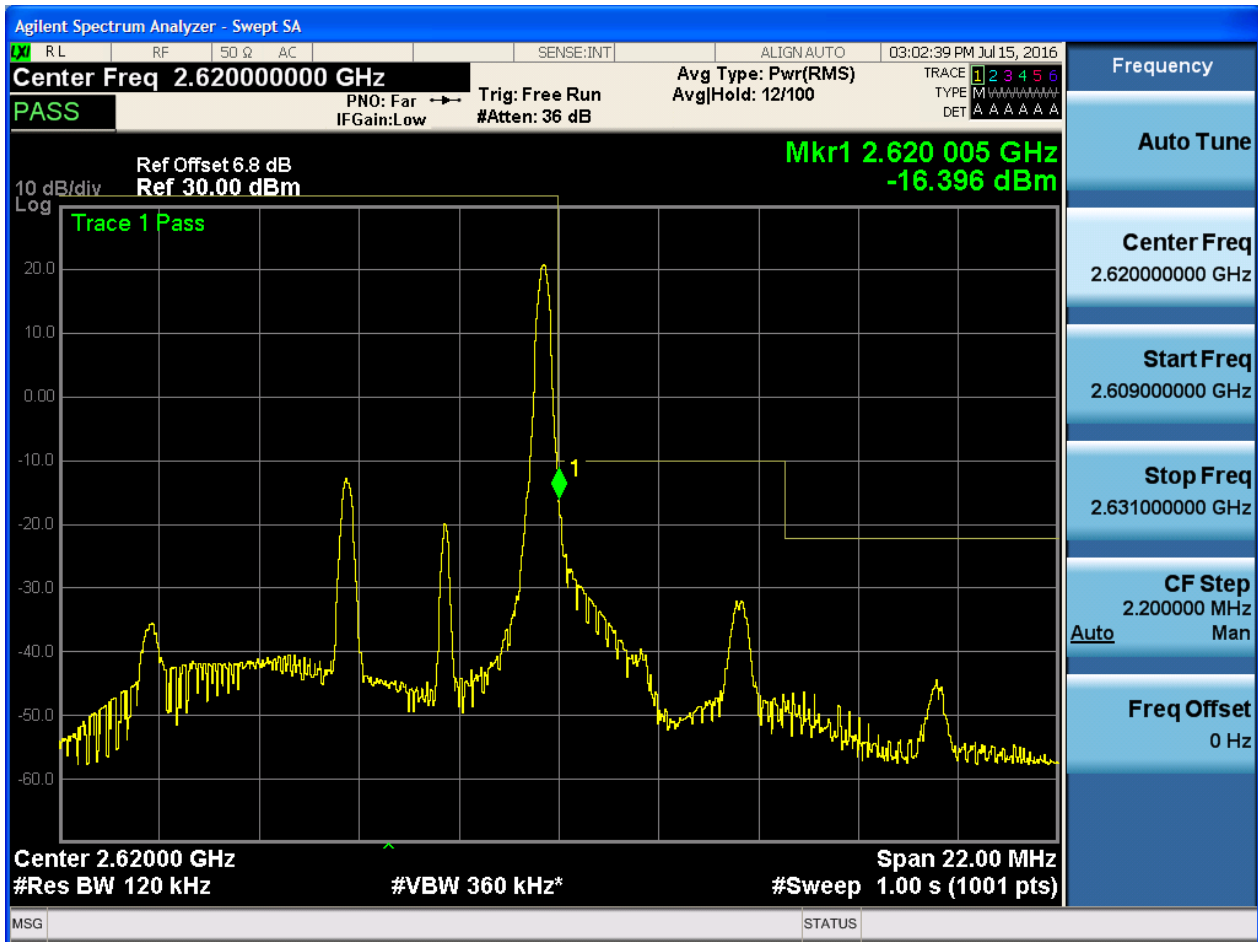
5.1.4.1.1.2 Test Channel = HCH

5.1.4.1.1.2.1 Test RB = RB1#0



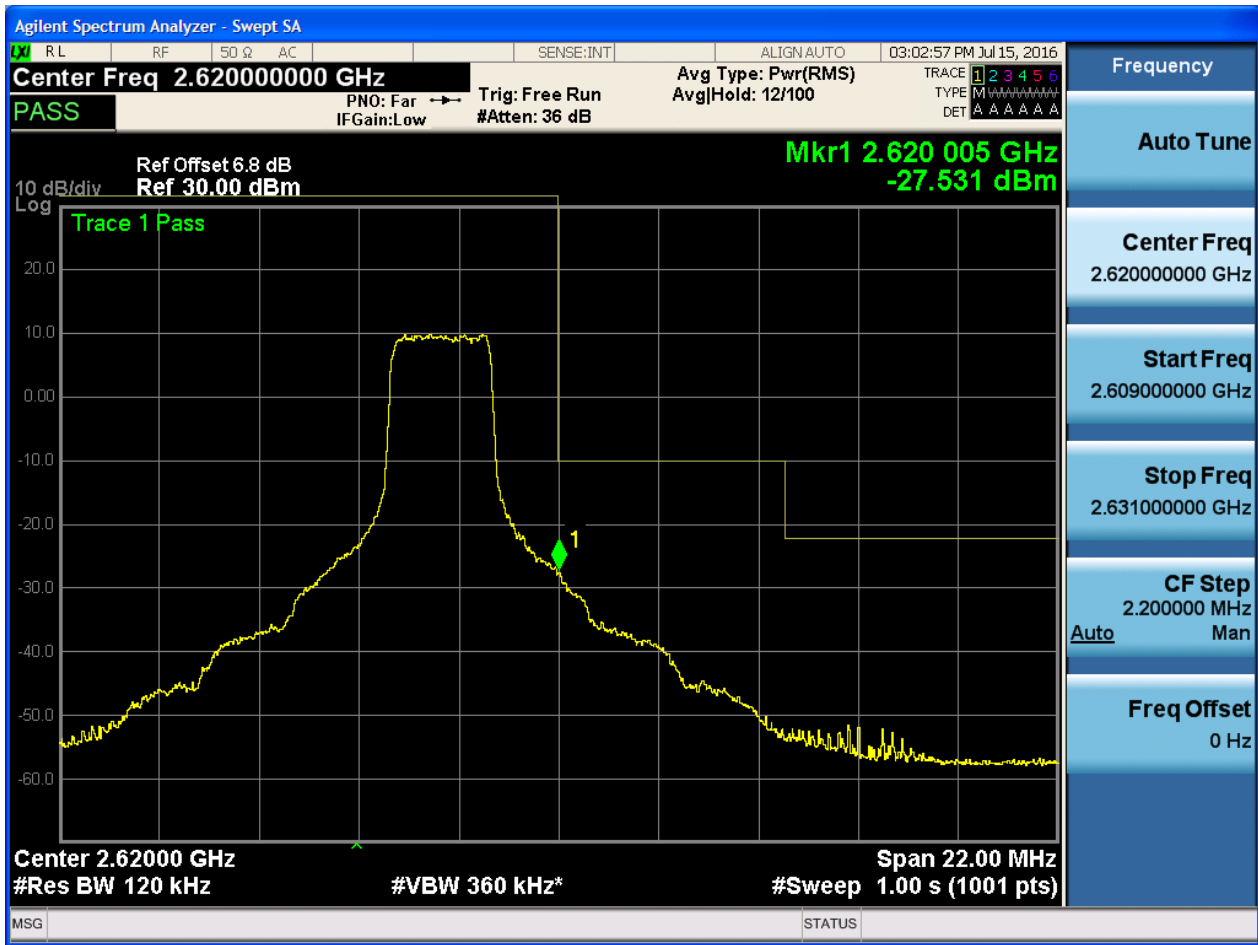


5.1.4.1.1.2.2 Test RB = RB1#24





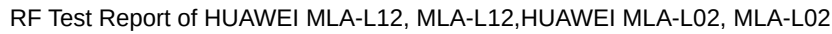
5.1.4.1.1.2.3 Test RB = RB12#6





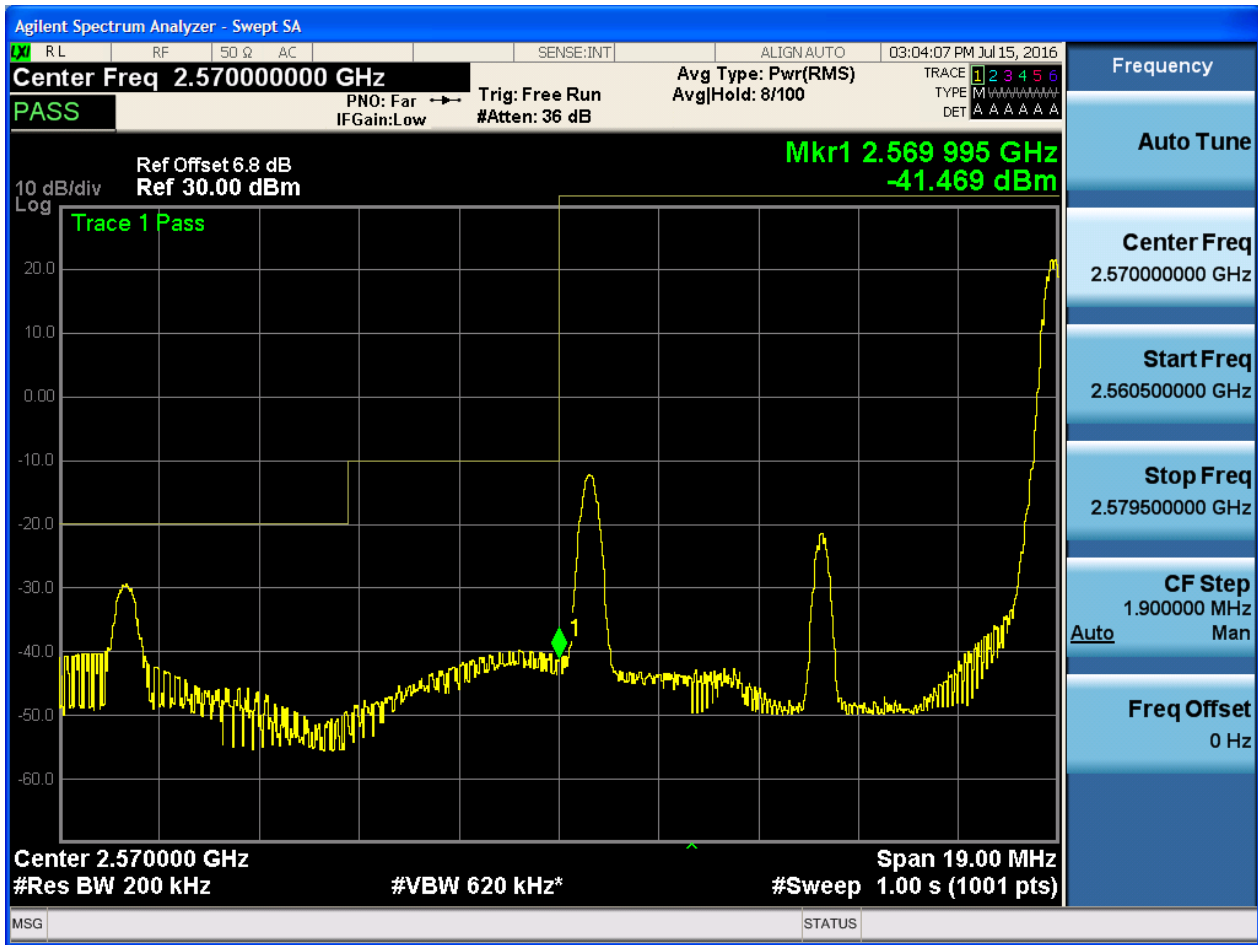
5.1.4.1.1.2.4 Test RB = RB25#0







5.1.4.1.2.1.2 Test RB = RB1#49



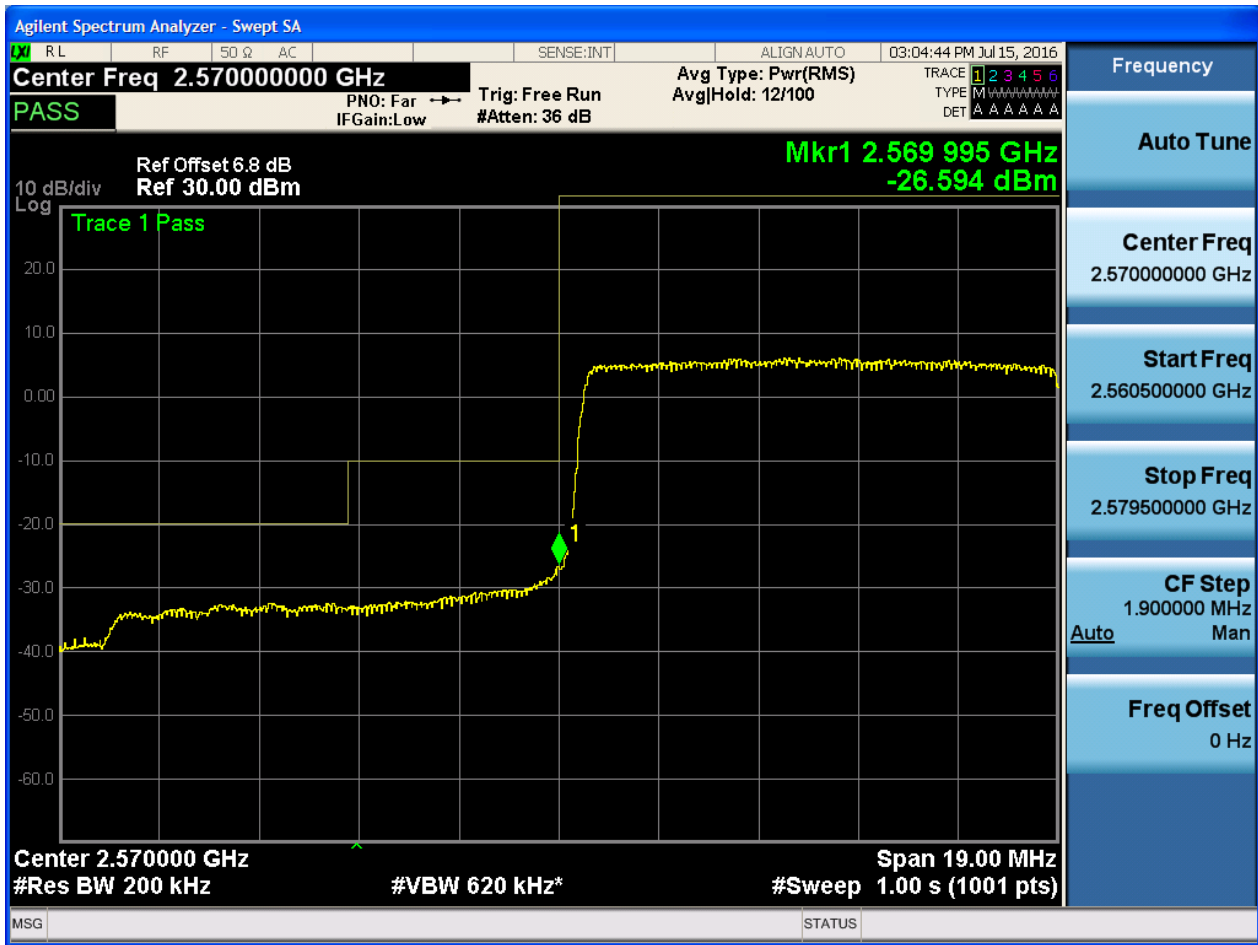


5.1.4.1.2.1.3 Test RB = RB25#13





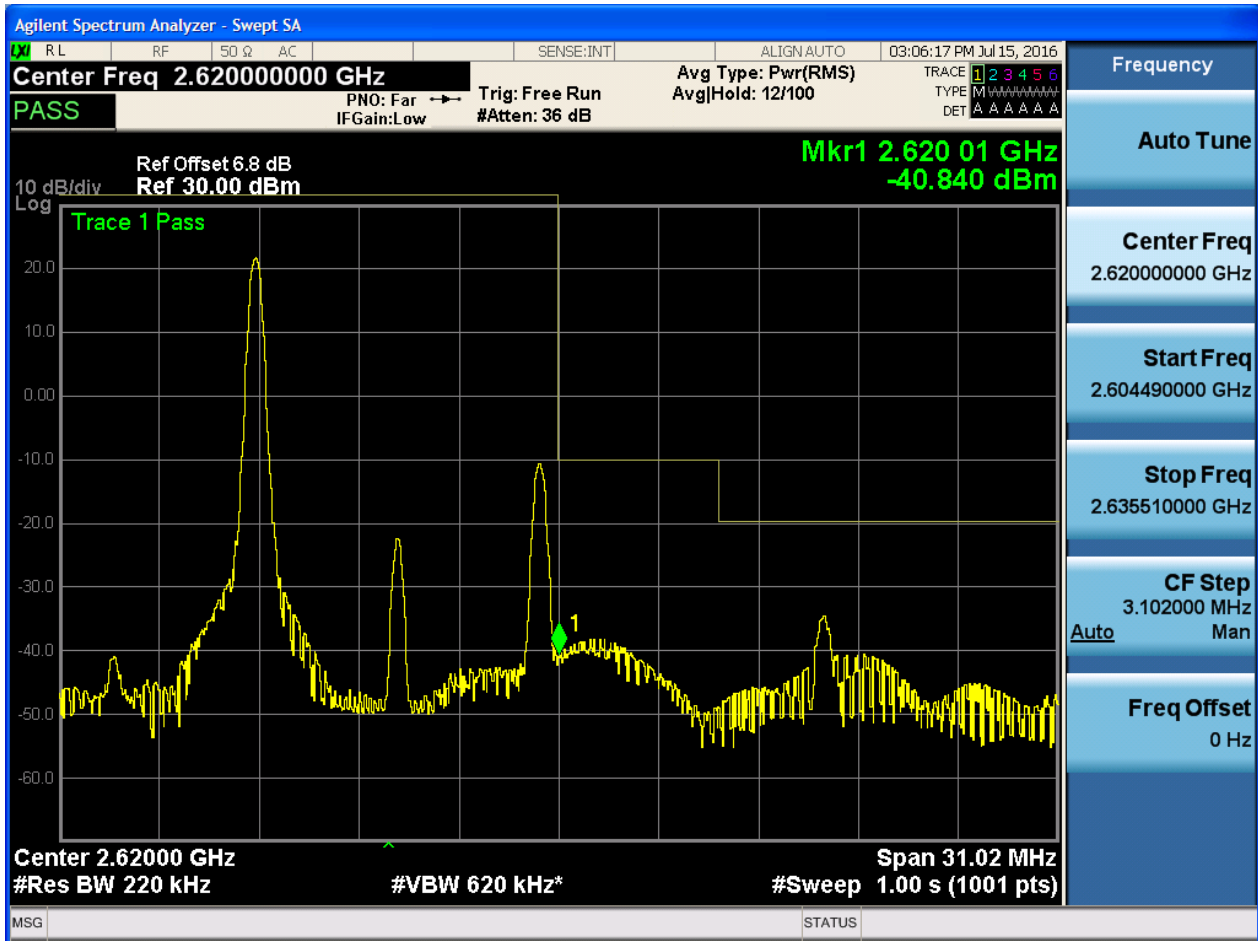
5.1.4.1.2.1.4 Test RB = RB50#0

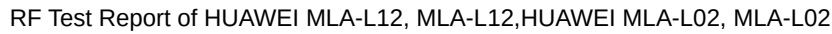




5.1.4.1.2.2 Test Channel = HCH

5.1.4.1.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.6201 GHz
-24.168 dBm

Center 2.6200 GHz
#Res BW 220 kHz
#VBW 620 kHz*

Span 31.02 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.604490000 GHz

Stop Freq
2.635510000 GHz

CF Step
3.102000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of power spectral density (PSD) in dBm/Hz versus frequency. The plot shows a noisy baseline with several peaks. The most prominent peak is at 2.6201 GHz, marked with a green diamond and labeled 'Mkr1 2.6201 GHz -24.168 dBm'. The plot is titled 'Trace 1 Pass'. The frequency range is from 2.60449 GHz to 2.63551 GHz, with a center frequency of 2.6200 GHz. The resolution bandwidth (RBW) is 220 kHz, and the video bandwidth (VBW) is 620 kHz. The span is 31.02 MHz. The sweep time is 1.00 s. The reference level is 30.00 dBm, and the reference offset is 6.8 dB. The plot is labeled '10 dB/div Log'. The status bar at the bottom shows 'MSG' and 'STATUS'.

Parameter	Value
Center Freq	2.62000000 GHz
Start Freq	2.604490000 GHz
Stop Freq	2.635510000 GHz
CF Step	3.102000 MHz
Freq Offset	0 Hz



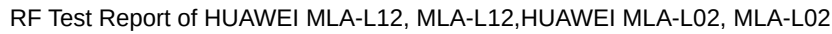
5.1.4.1.2.2.3 Test RB = RB25#13





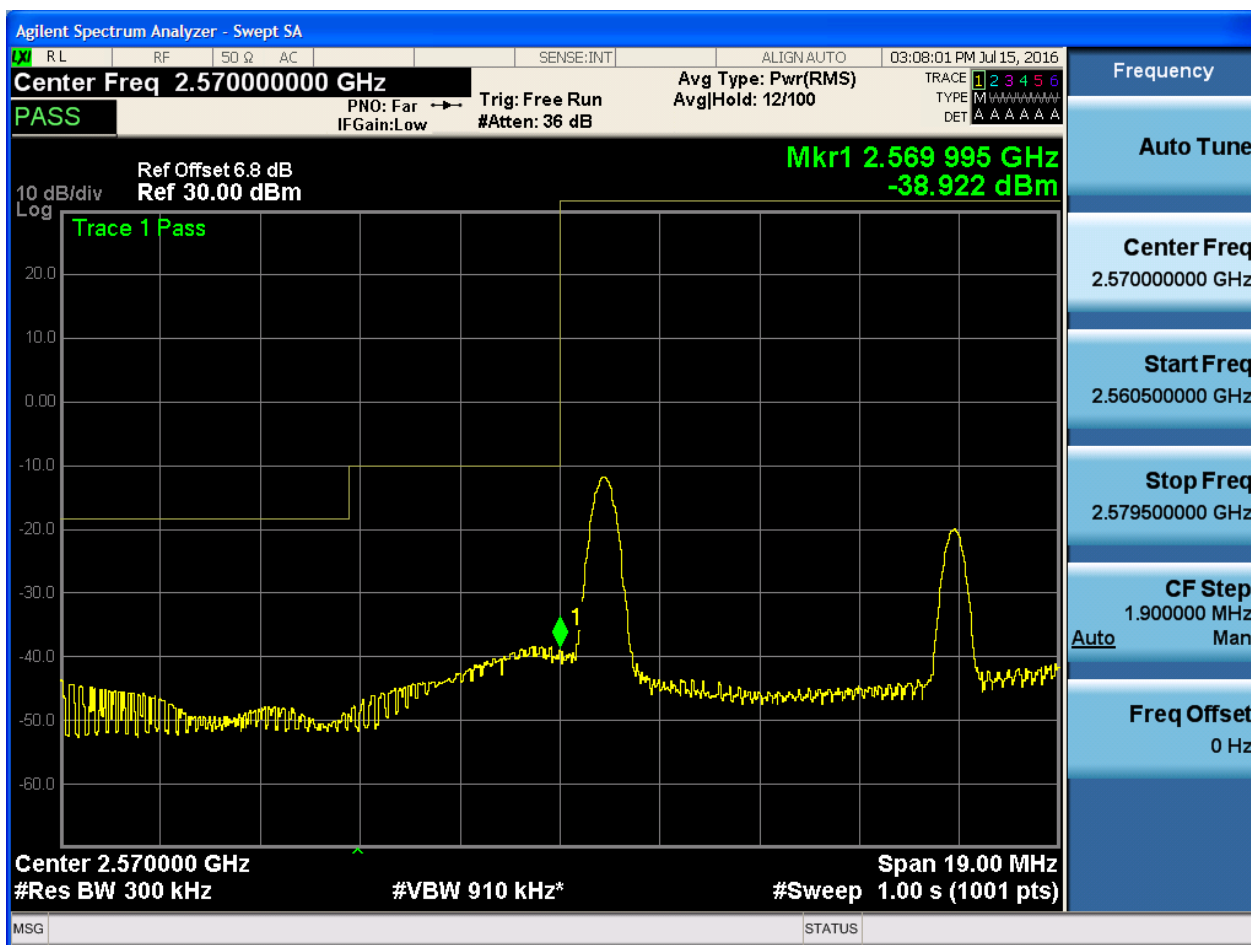
5.1.4.1.2.2.4 Test RB = RB50#0







5.1.4.1.3.1.2 Test RB = RB1#74



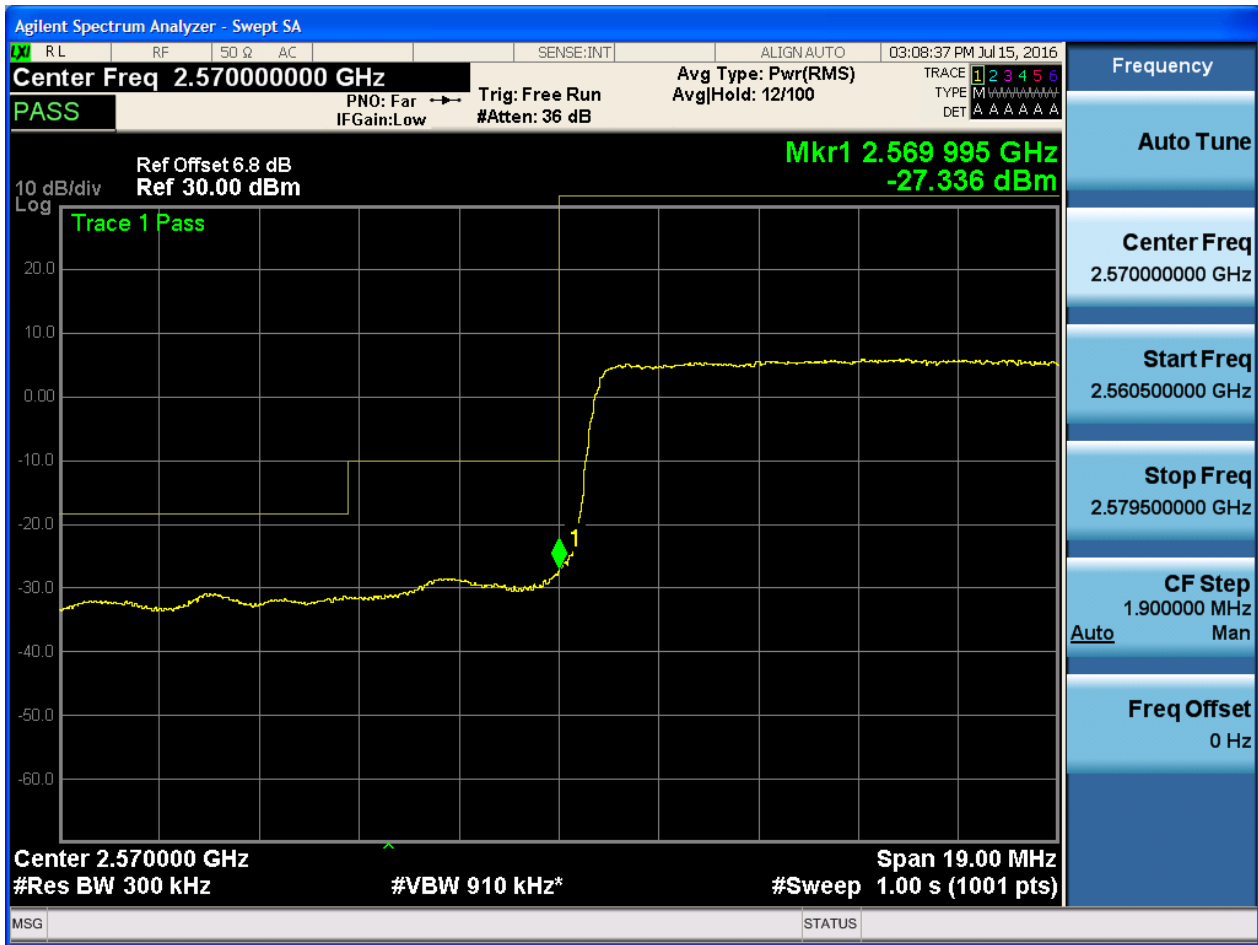


5.1.4.1.3.1.3 Test RB = RB36#18





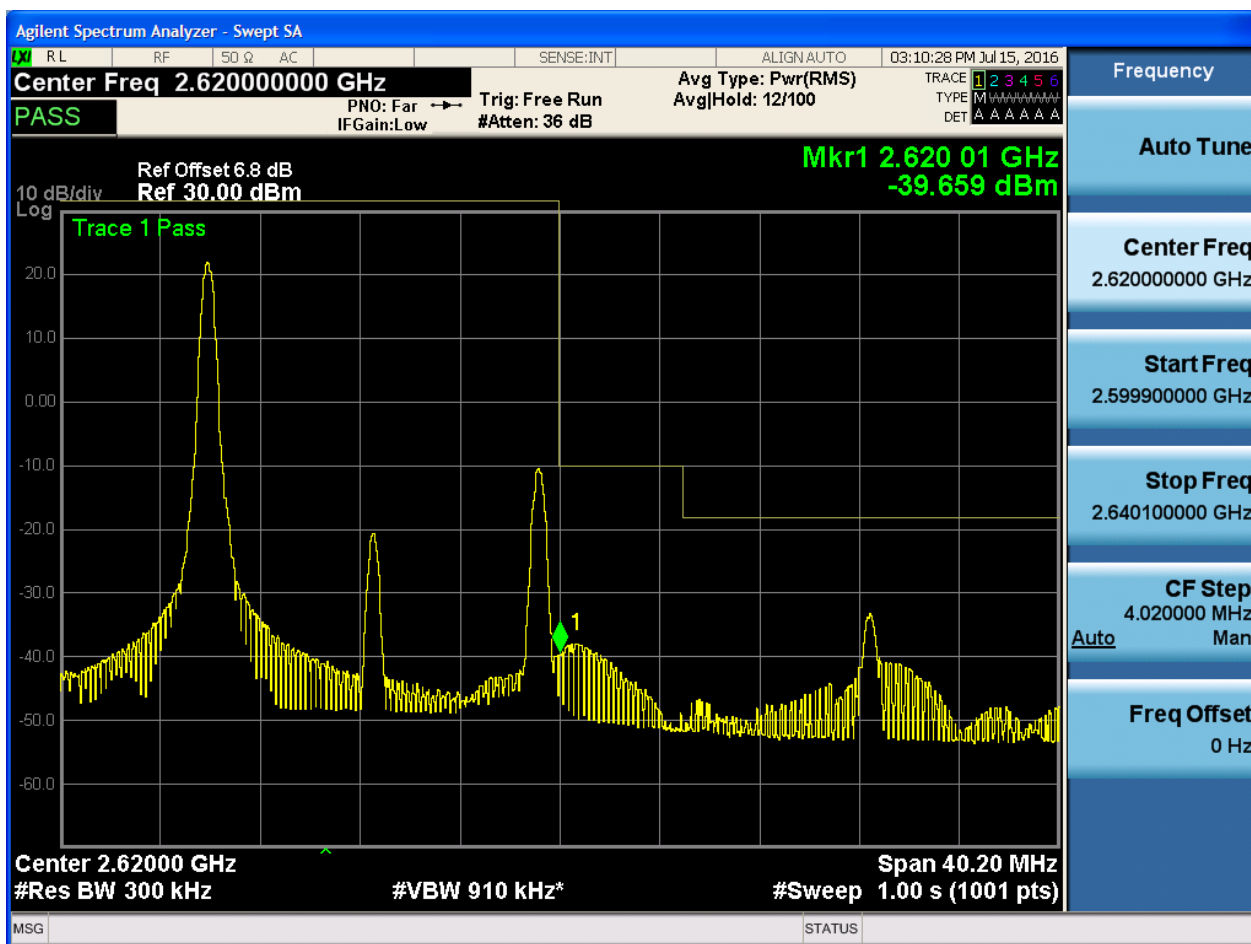
5.1.4.1.3.1.4 Test RB = RB75#0





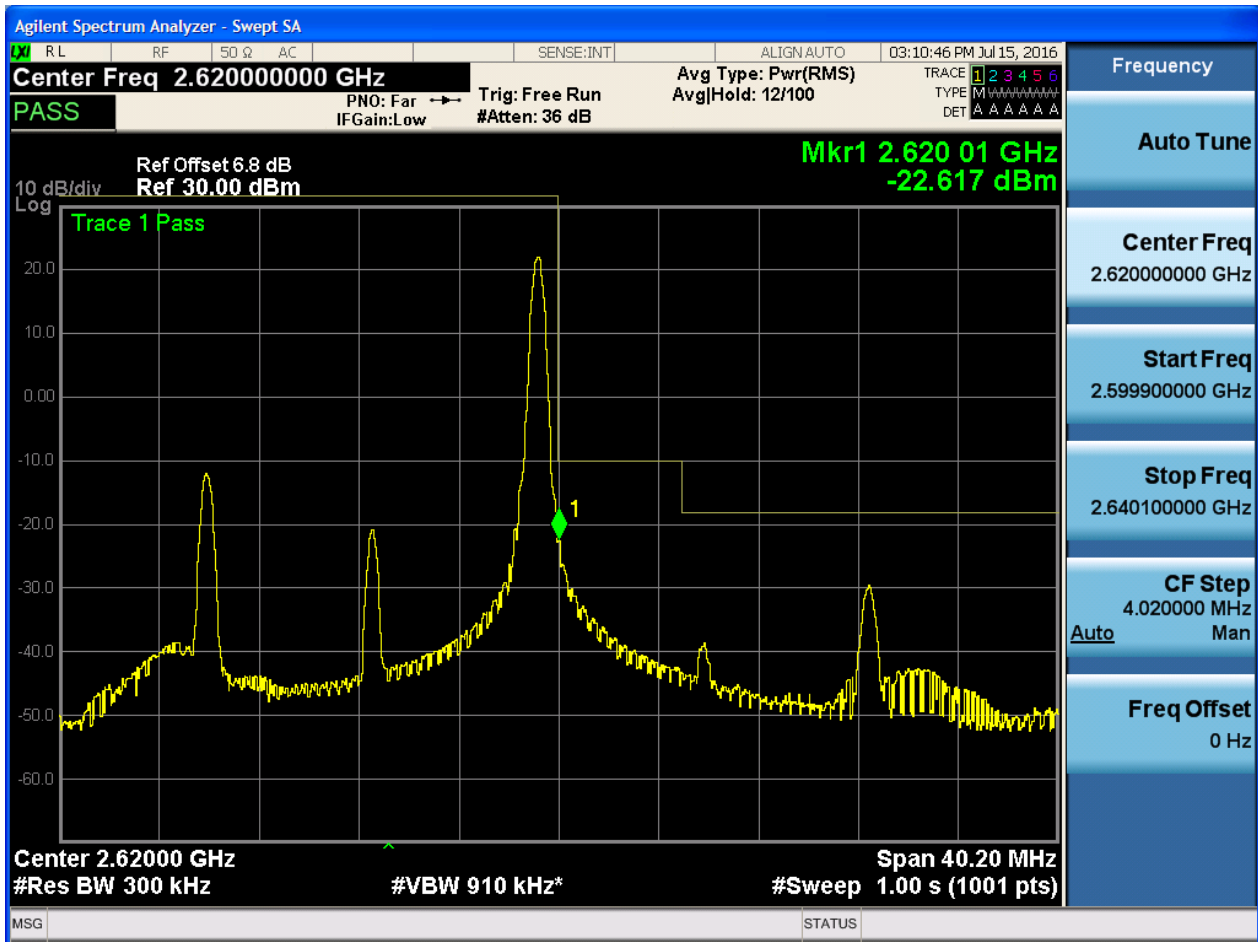
5.1.4.1.3.2 Test Channel = HCH

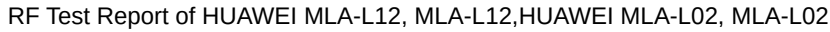
5.1.4.1.3.2.1 Test RB = RB1#0





5.1.4.1.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.6201 GHz
-28.956 dBm

Center 2.62000 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 40.20 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.599900000 GHz

Stop Freq
2.640100000 GHz

CF Step
4.020000 MHz
Man

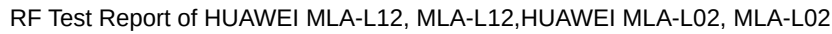
Auto

Freq Offset
0 Hz



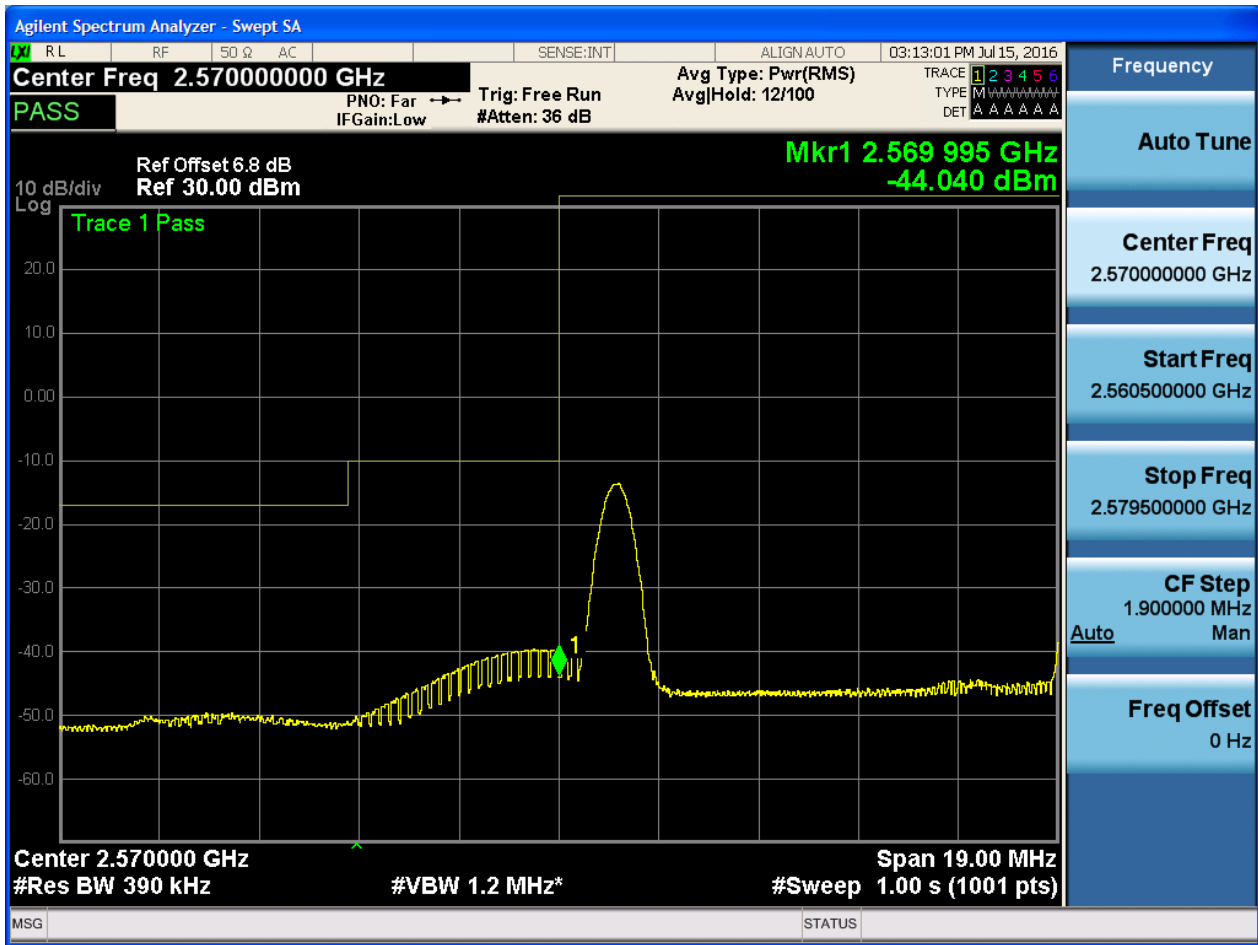
5.1.4.1.3.2.4 Test RB = RB75#0





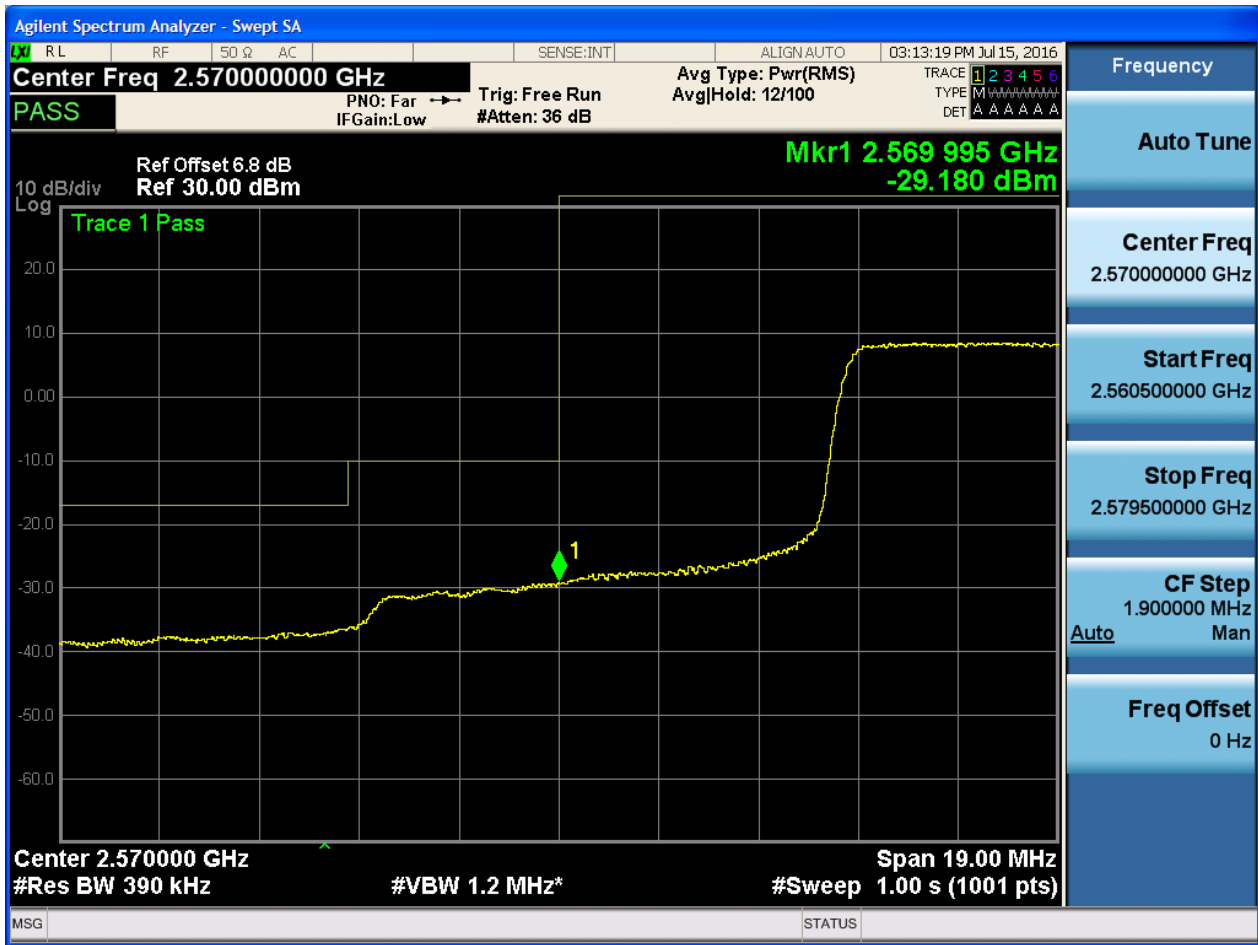


5.1.4.1.4.1.2 Test RB = RB1#99



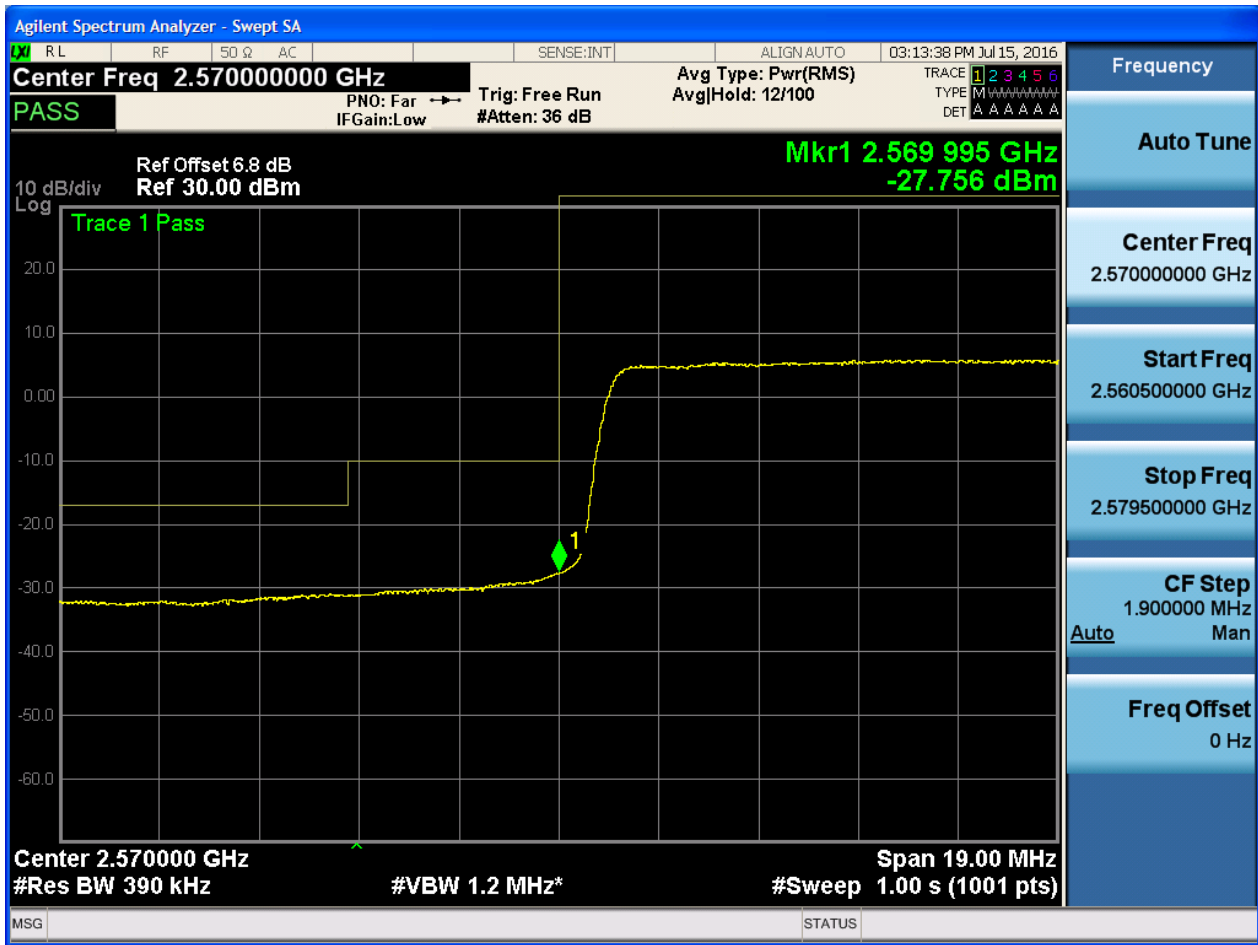


5.1.4.1.4.1.3 Test RB = RB50#25





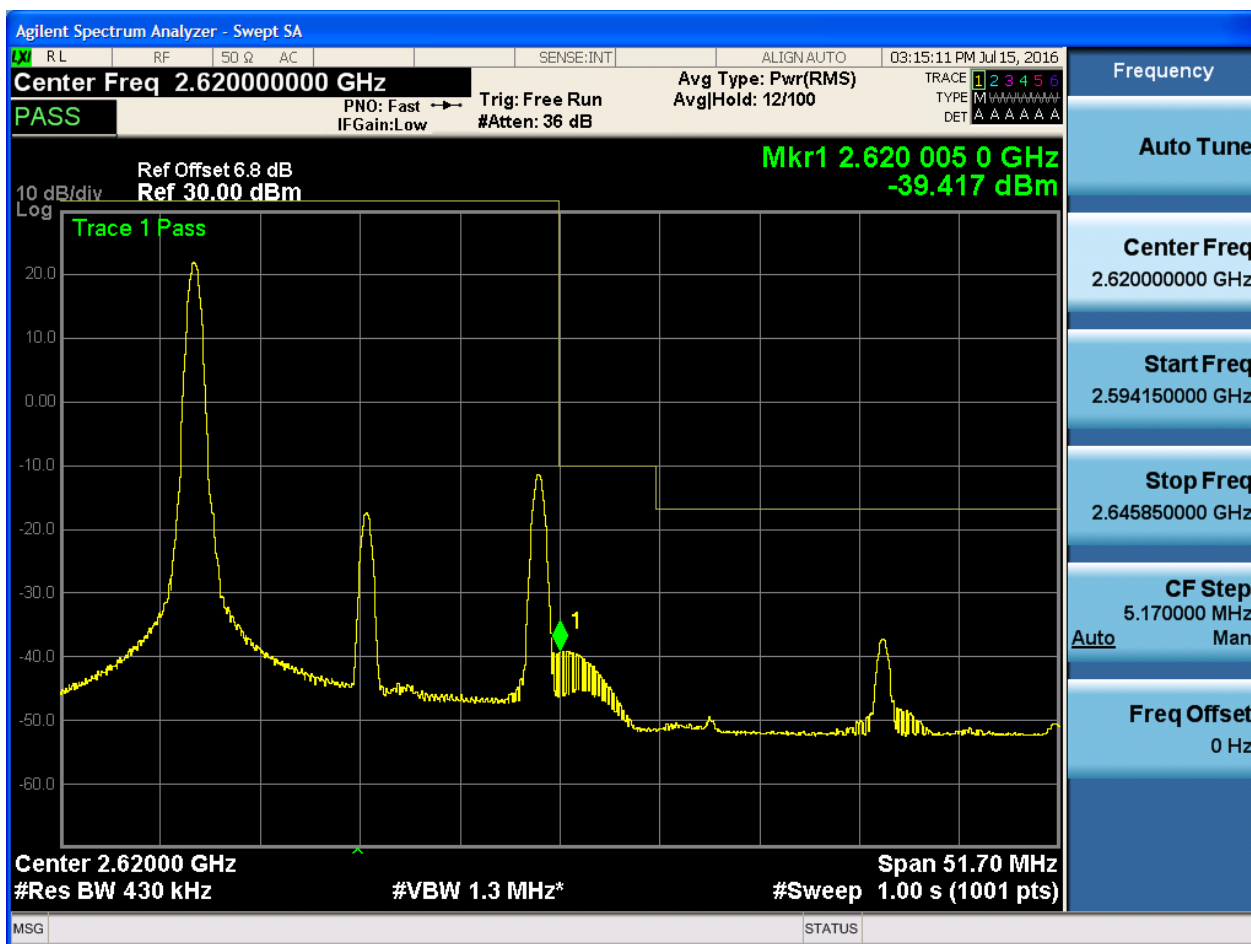
5.1.4.1.4.1.4 Test RB = RB100#0

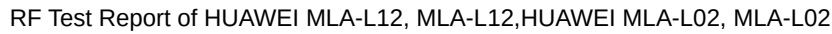




5.1.4.1.4.2 Test Channel = HCH

5.1.4.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.620 005 0 GHz
-26.034 dBm

Trace 1 Pass

Center 2.62000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*

Span 51.70 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.594150000 GHz

Stop Freq
2.645850000 GHz

CF Step
5.170000 MHz
Man

Auto

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of the spectrum, showing a central peak at 2.620005 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -60.0 to 20.0. The x-axis is labeled 'Center 2.62000 GHz' and 'Span 51.70 MHz'. The plot shows a central peak at 2.620005 GHz, with several sidebands. The peak is labeled 'Mkr1 2.620 005 0 GHz -26.034 dBm'. The plot also shows 'Trace 1 Pass' and 'Ref Offset 6.8 dB Ref 30.00 dBm'. The plot is titled 'Agilent Spectrum Analyzer - Swept SA'. The plot shows a central peak at 2.620005 GHz, with several sidebands. The peak is labeled 'Mkr1 2.620 005 0 GHz -26.034 dBm'. The plot also shows 'Trace 1 Pass' and 'Ref Offset 6.8 dB Ref 30.00 dBm'. The plot is titled 'Agilent Spectrum Analyzer - Swept SA'.



5.1.4.1.4.2.3 Test RB = RB50#25





5.1.4.1.4.2.4 Test RB = RB100#0



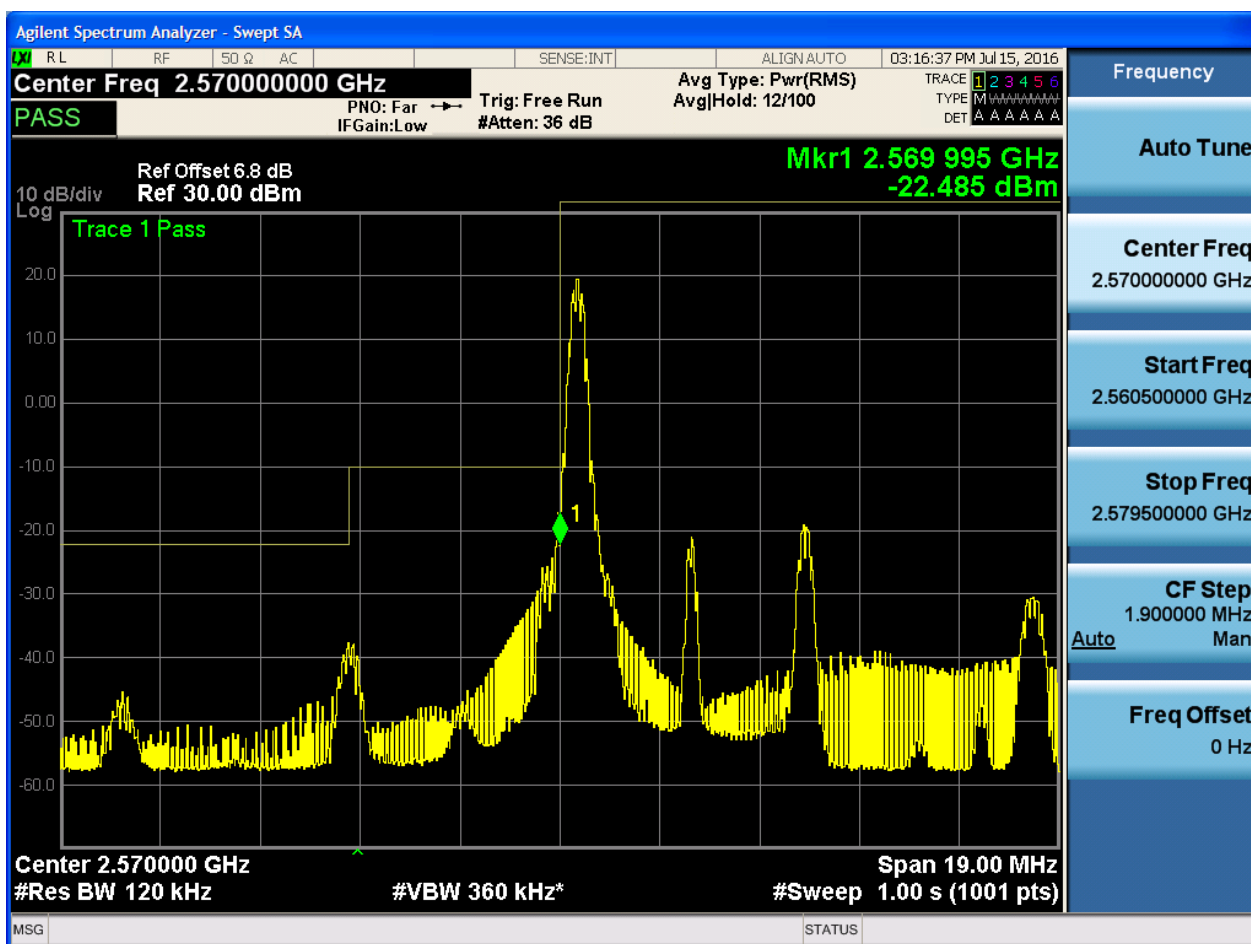


5.1.4.2 Test Mode = LTE/TM2

5.1.4.2.1 Test Bandwidth = 5

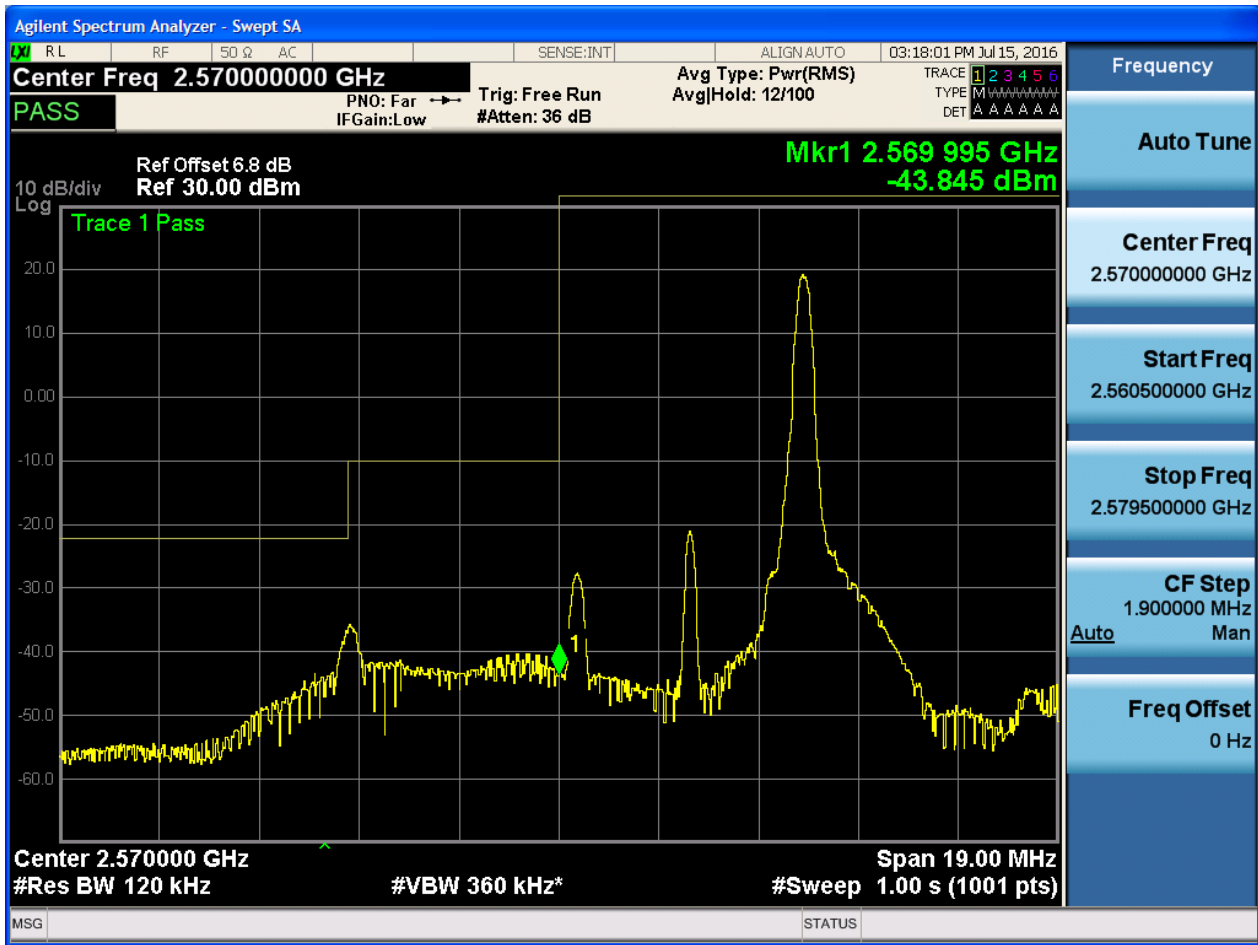
5.1.4.2.1.1 Test Channel = LCH

5.1.4.2.1.1.1 Test RB = RB1#0



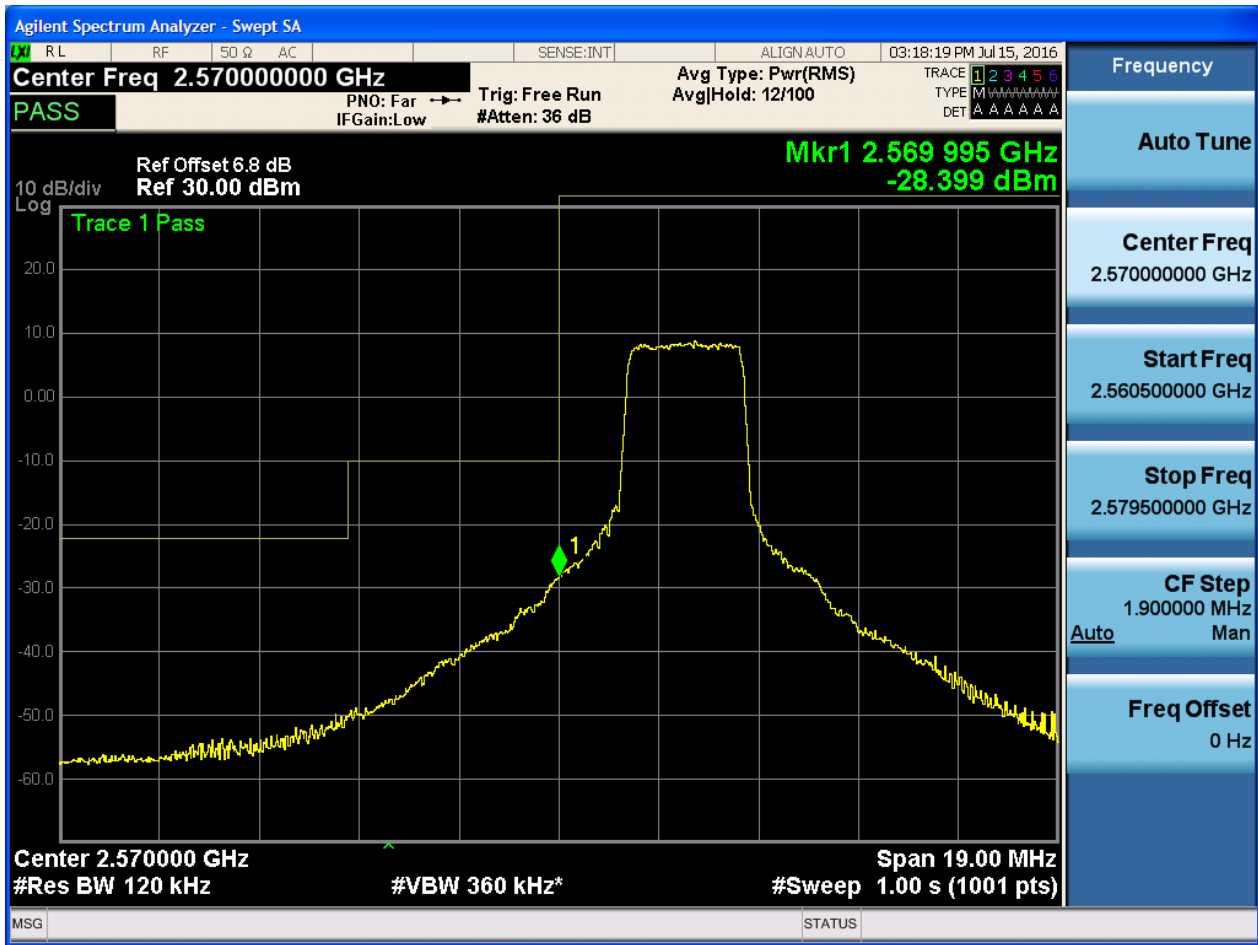


5.1.4.2.1.1.2 Test RB = RB1#24





5.1.4.2.1.1.3 Test RB = RB12#6





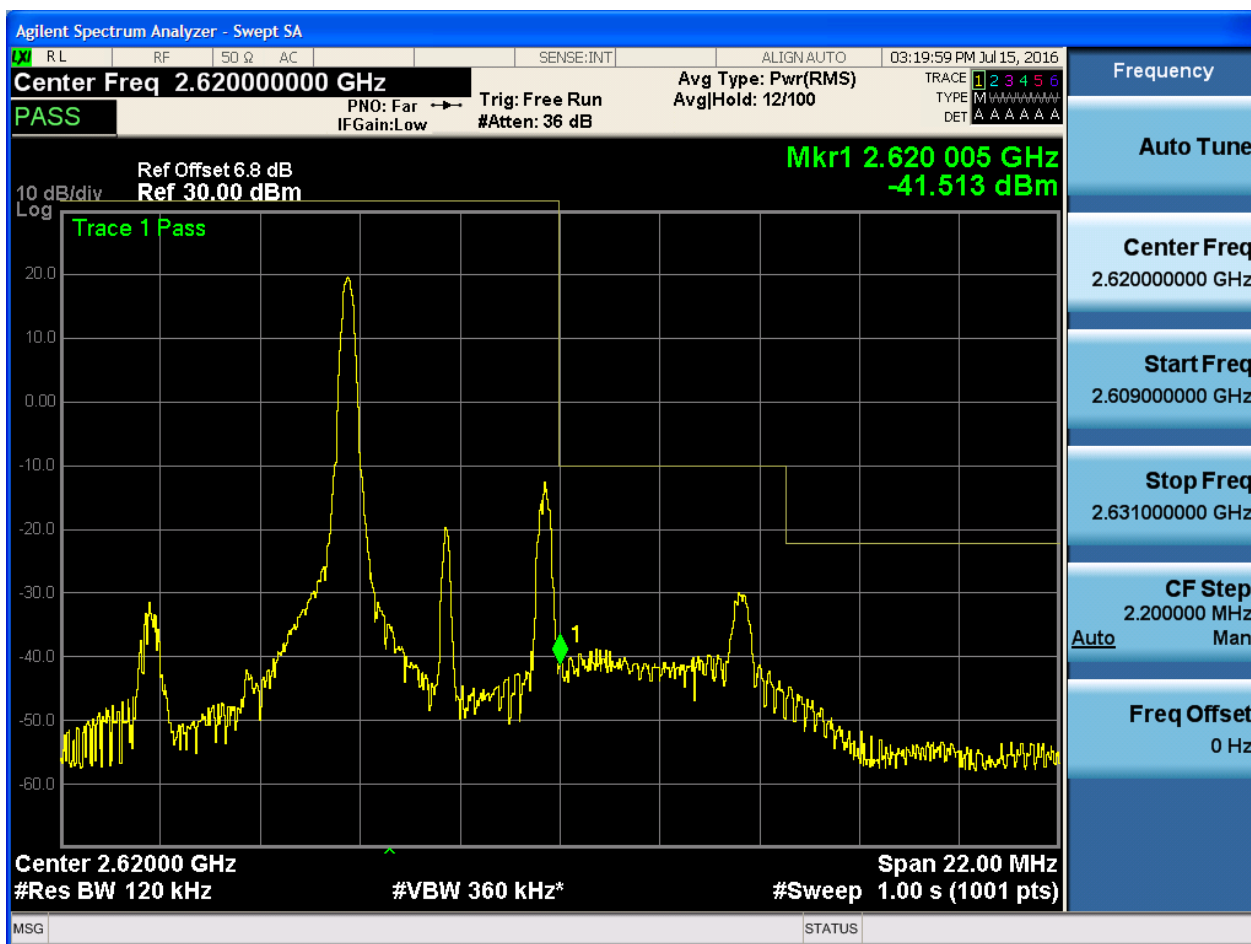
5.1.4.2.1.1.4 Test RB = RB25#0





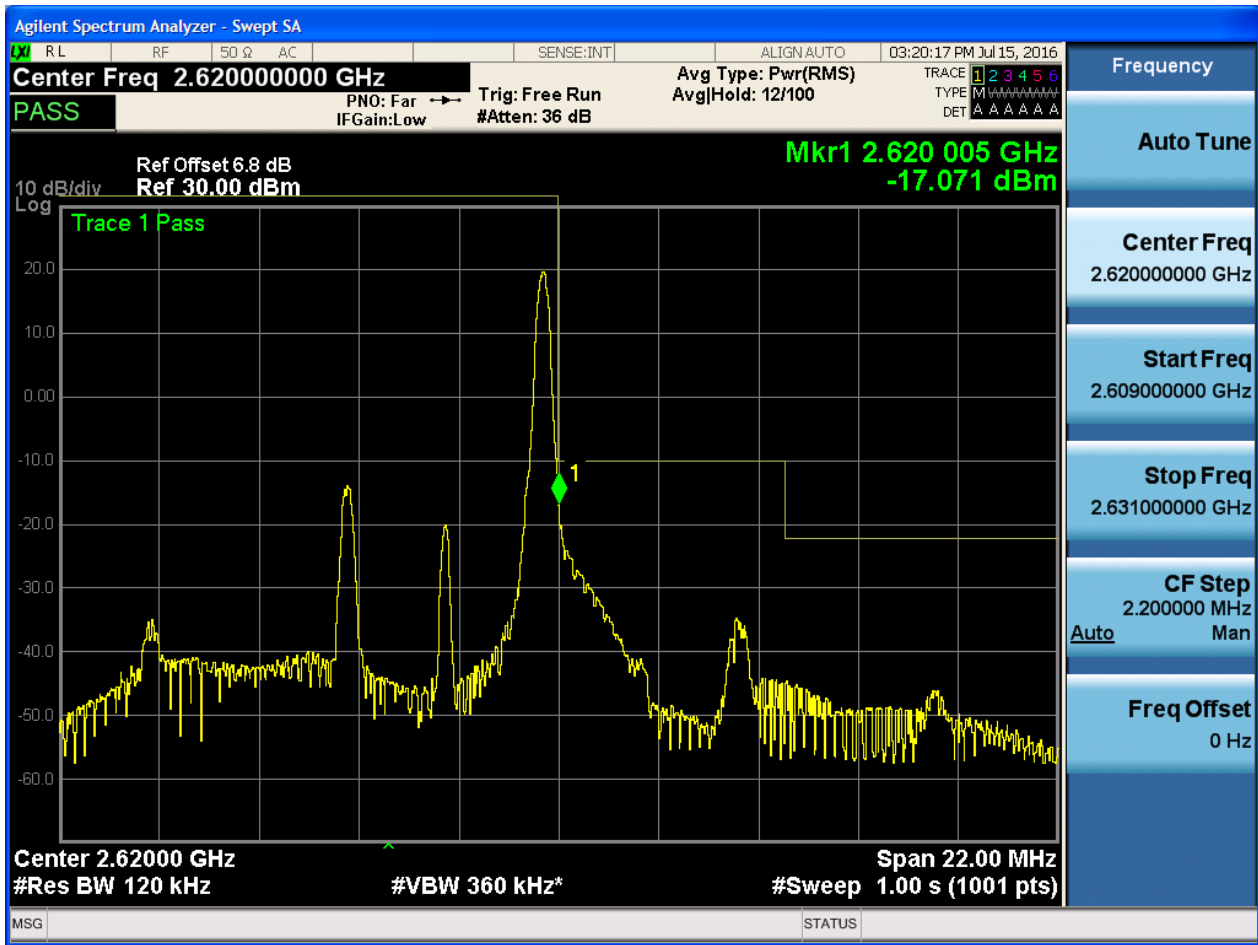
5.1.4.2.1.2 Test Channel = HCH

5.1.4.2.1.2.1 Test RB = RB1#0



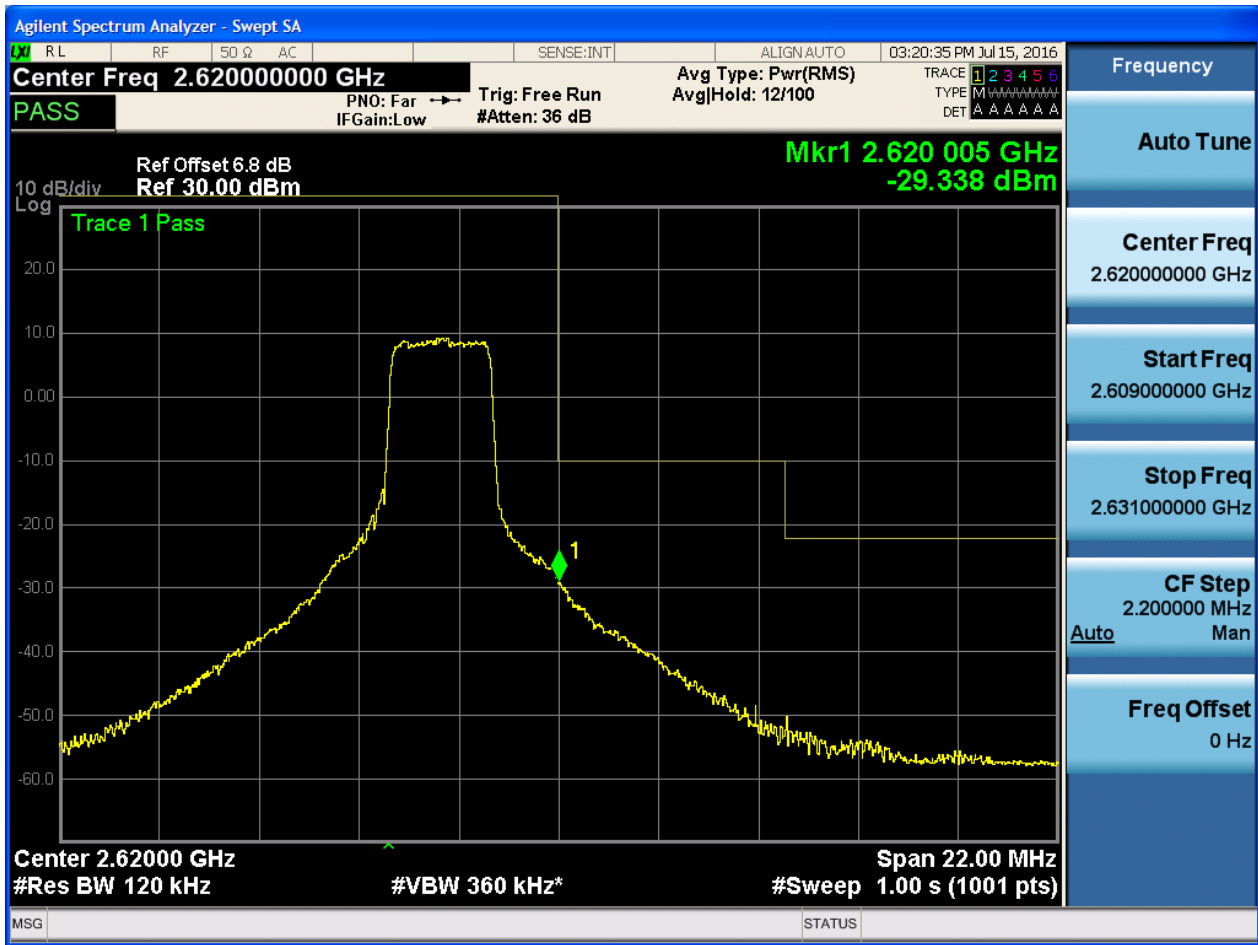


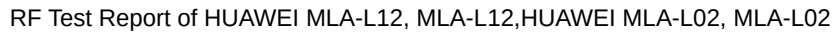
5.1.4.2.1.2.2 Test RB = RB1#24





5.1.4.2.1.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Center 2.6200 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.609000000 GHz

Stop Freq
2.631000000 GHz

CF Step
2.200000 MHz
Man

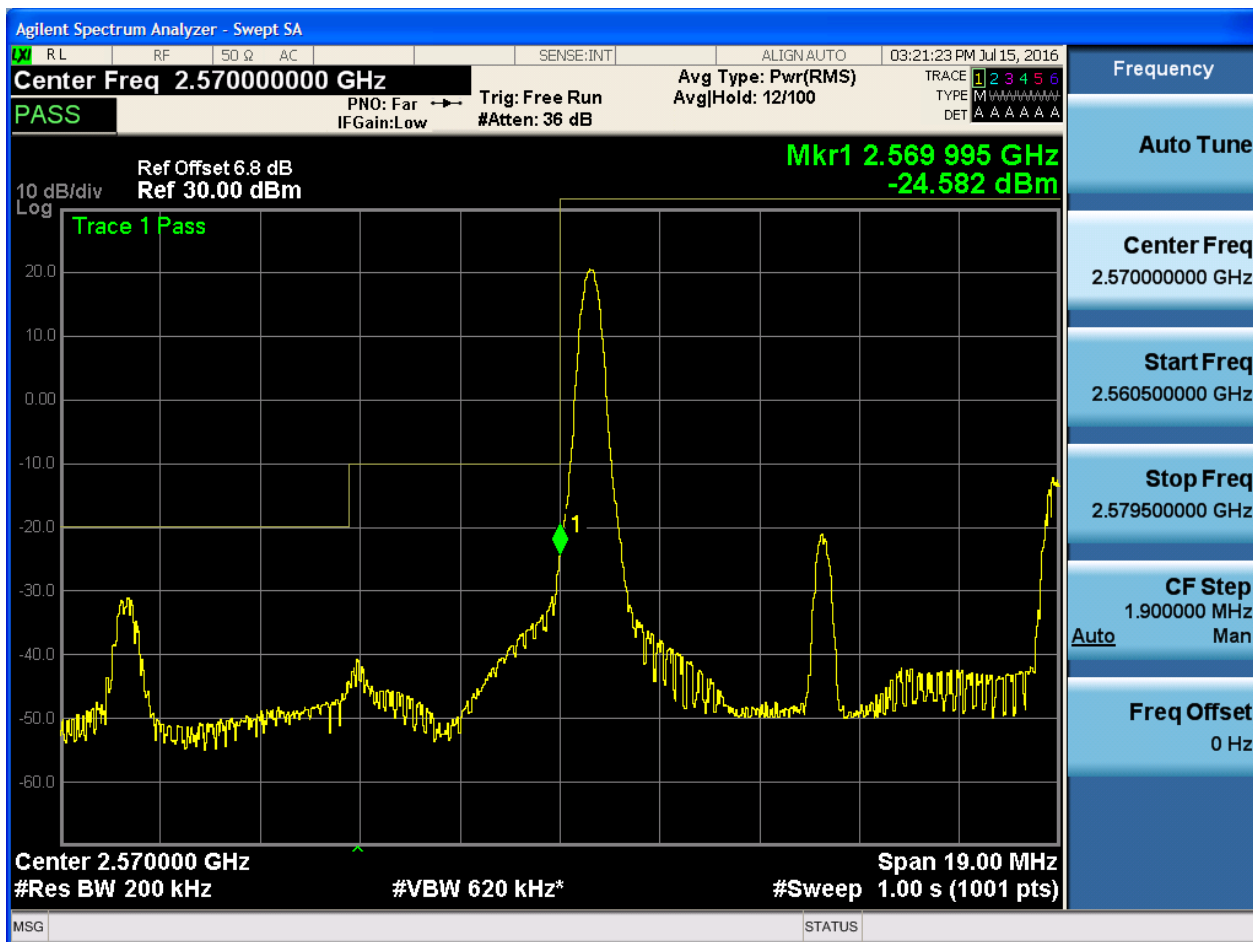
Freq Offset
0 Hz



5.1.4.2.2 Test Bandwidth = 10

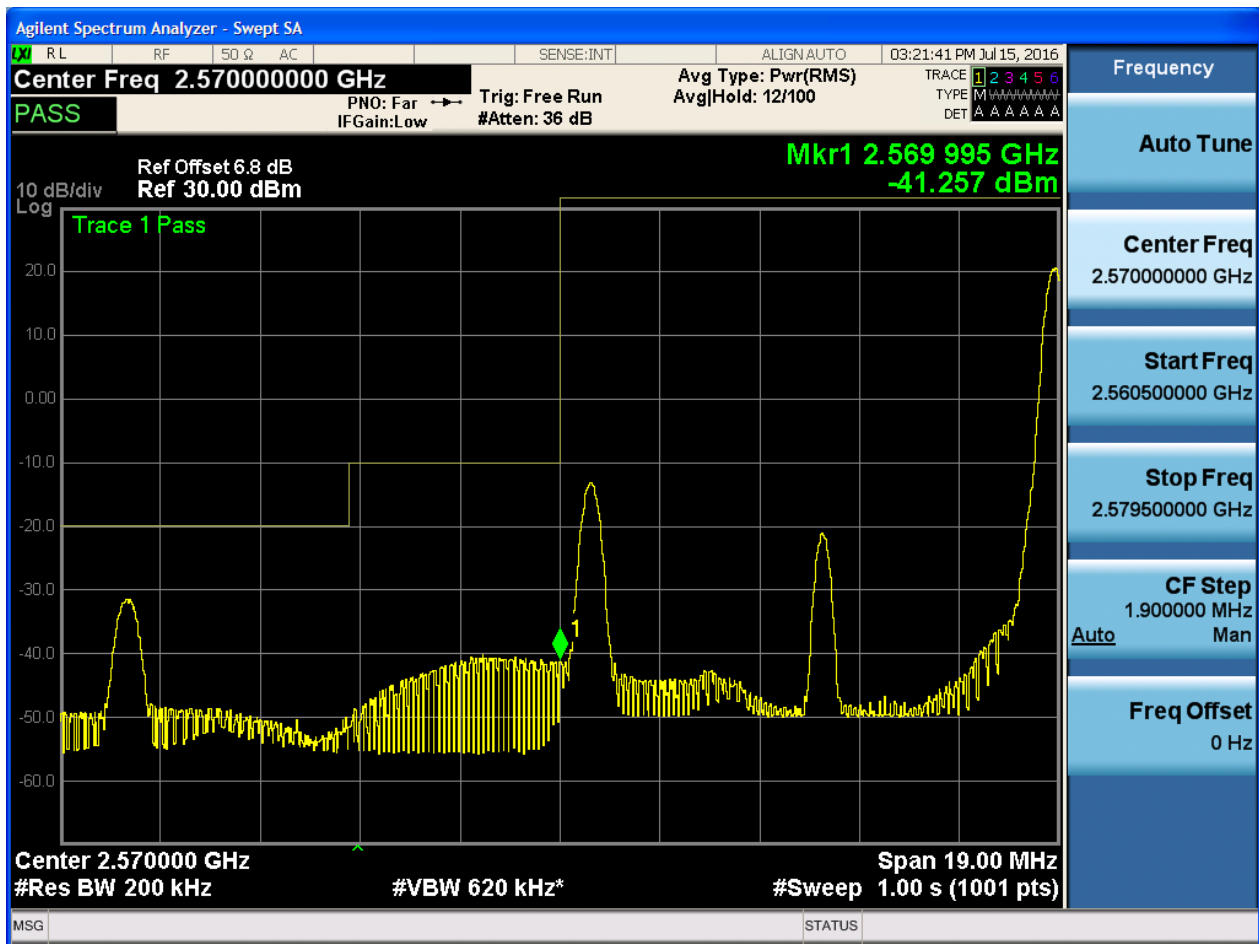
5.1.4.2.2.1 Test Channel = LCH

5.1.4.2.2.1.1 Test RB = RB1#0



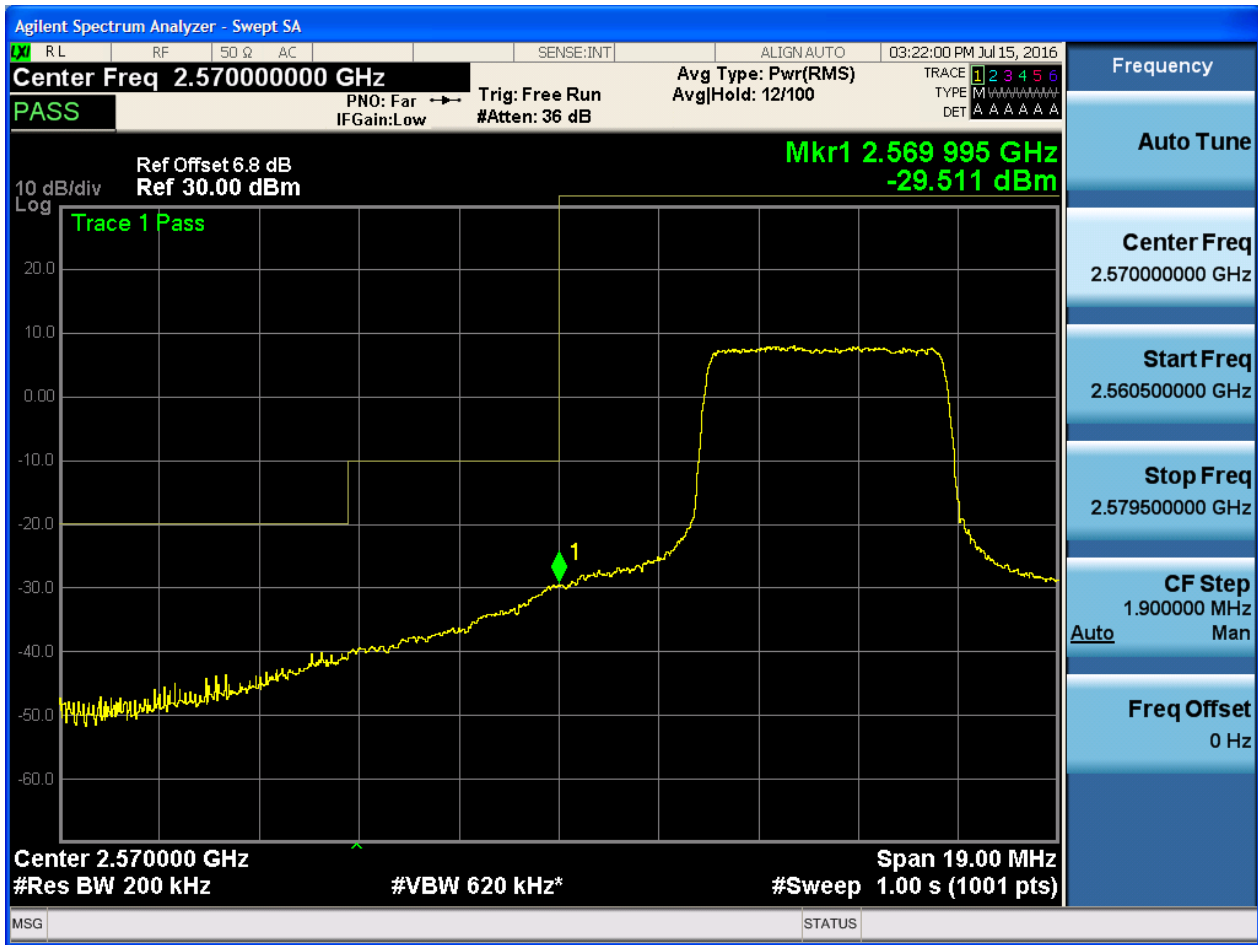


5.1.4.2.2.1.2 Test RB = RB1#49



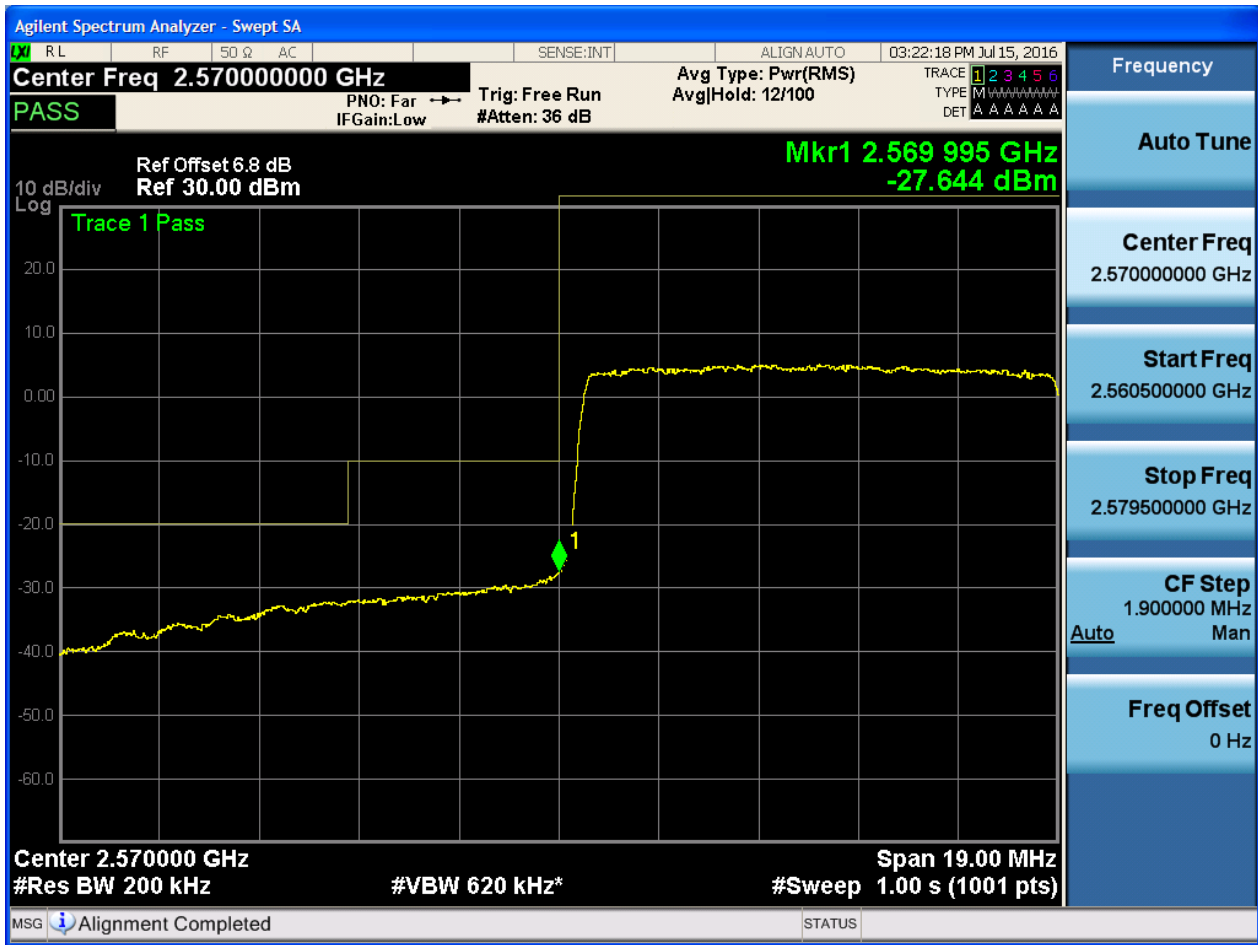


5.1.4.2.2.1.3 Test RB = RB25#13





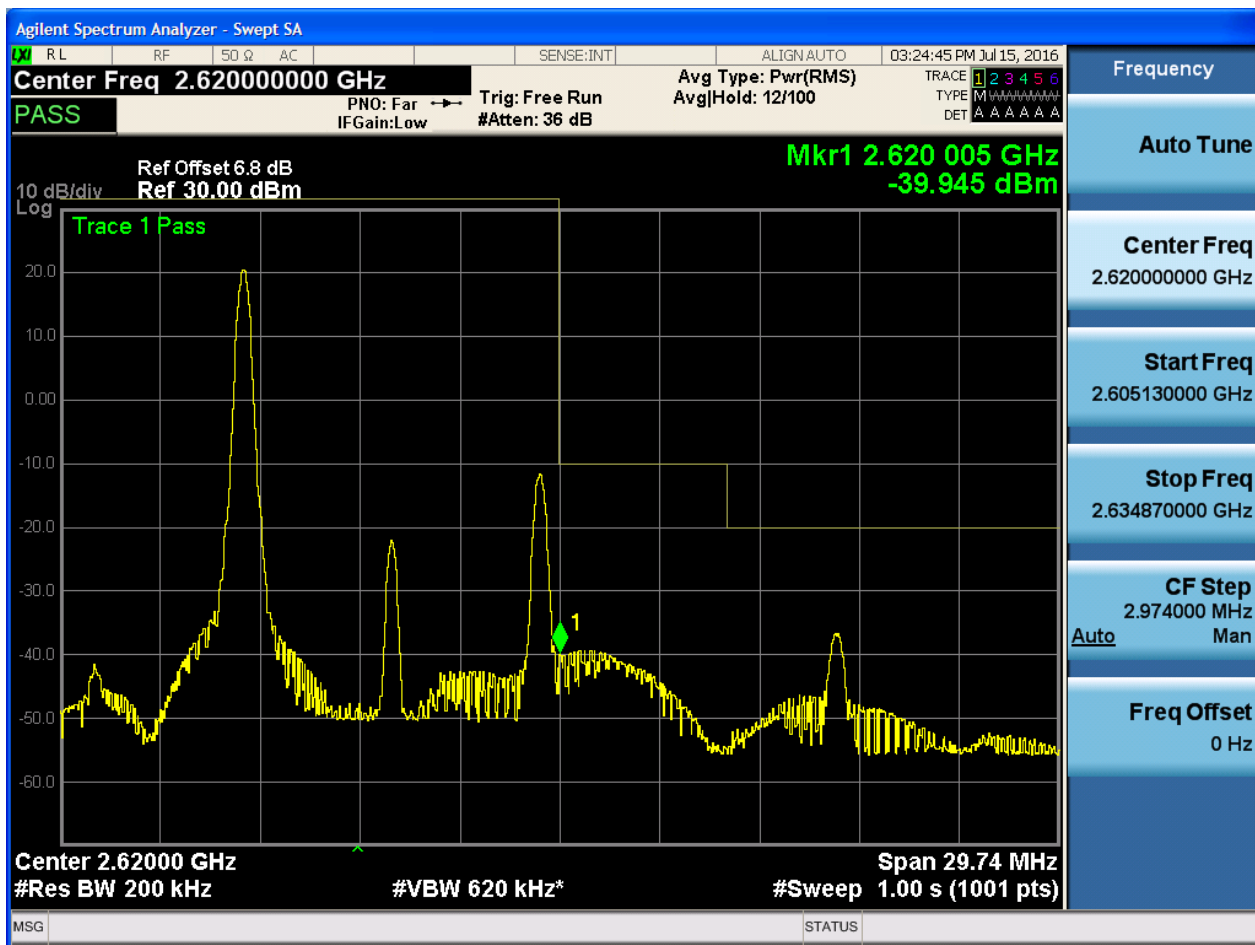
5.1.4.2.2.1.4 Test RB = RB50#0

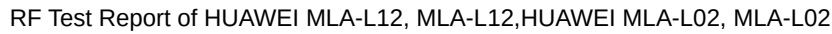




5.1.4.2.2.2 Test Channel = HCH

5.1.4.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

Mkr1 2.620 005 GHz
-25.351 dBm

Center 2.6200 GHz
#Res BW 200 kHz
#VBW 620 kHz*

Span 29.74 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.605130000 GHz

Stop Freq
2.634870000 GHz

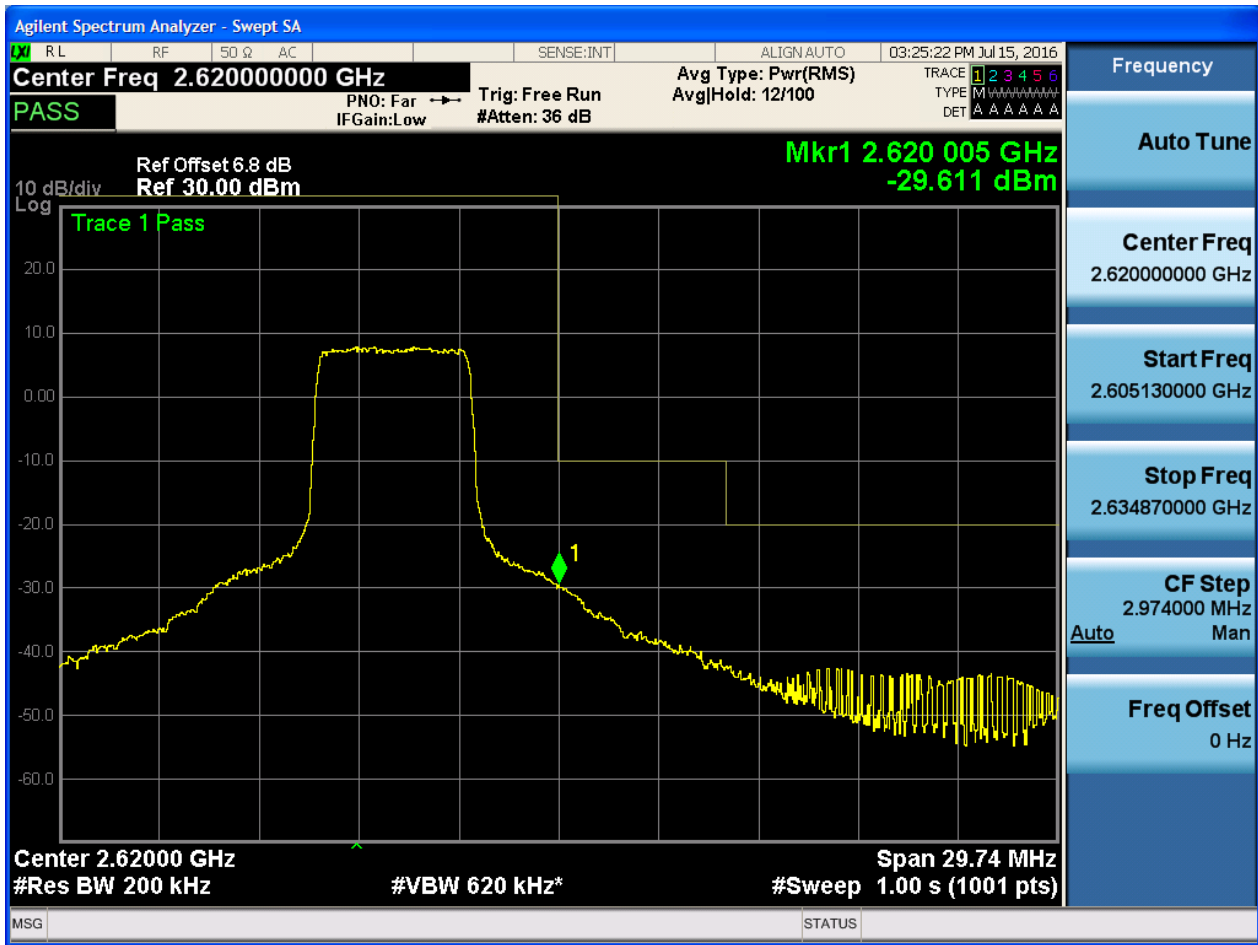
CF Step
2.974000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of power spectral density (PSD) in dBm/Hz versus frequency. The plot shows a noisy baseline with several peaks. The most prominent peak is at 2.620005 GHz, marked with a green diamond and labeled '1'. The peak power is -25.351 dBm. The plot is labeled 'Trace 1 Pass'. The frequency range is from 2.60513 GHz to 2.63487 GHz. The center frequency is 2.62000 GHz. The resolution bandwidth (RBW) is 200 kHz, and the video bandwidth (VBW) is 620 kHz. The span is 29.74 MHz. The sweep time is 1.00 s. The reference level is 30.00 dBm, and the reference offset is 6.8 dB. The plot is labeled 'Mkr1 2.620 005 GHz -25.351 dBm'. The plot is labeled 'Center Freq 2.62000000 GHz'. The plot is labeled 'Ref Offset 6.8 dB Ref 30.00 dBm'. The plot is labeled 'Trace 1 Pass'. The plot is labeled 'Mkr1 2.620 005 GHz -25.351 dBm'. The plot is labeled 'Center 2.6200 GHz #Res BW 200 kHz #VBW 620 kHz* Span 29.74 MHz #Sweep 1.00 s (1001 pts)'. The plot is labeled 'Auto Tune Center Freq 2.62000000 GHz Start Freq 2.605130000 GHz Stop Freq 2.634870000 GHz CF Step 2.974000 MHz Man Freq Offset 0 Hz'.



5.1.4.2.2.3 Test RB = RB25#13





5.1.4.2.2.4 Test RB = RB50#0

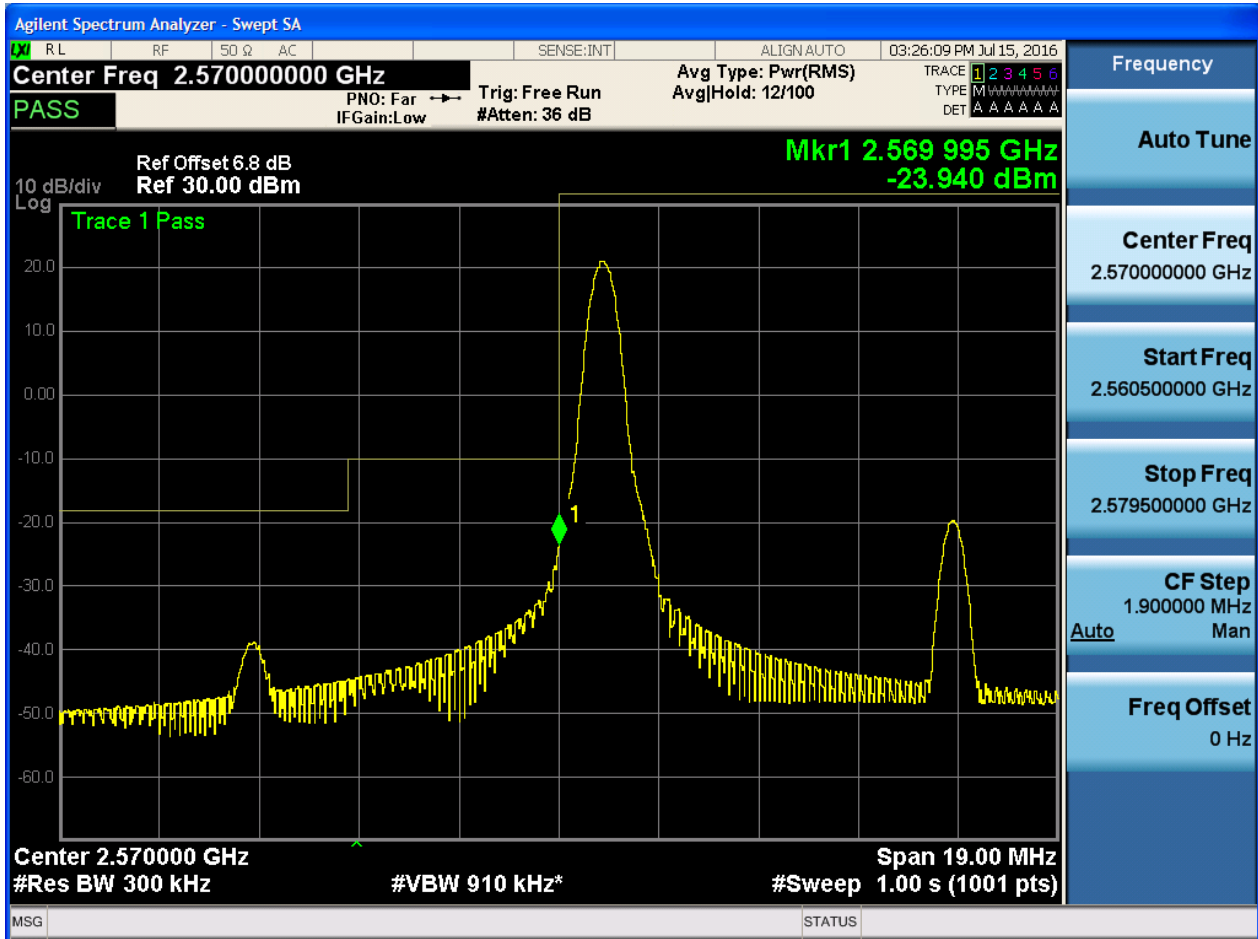




5.1.4.2.3 Test Bandwidth = 15

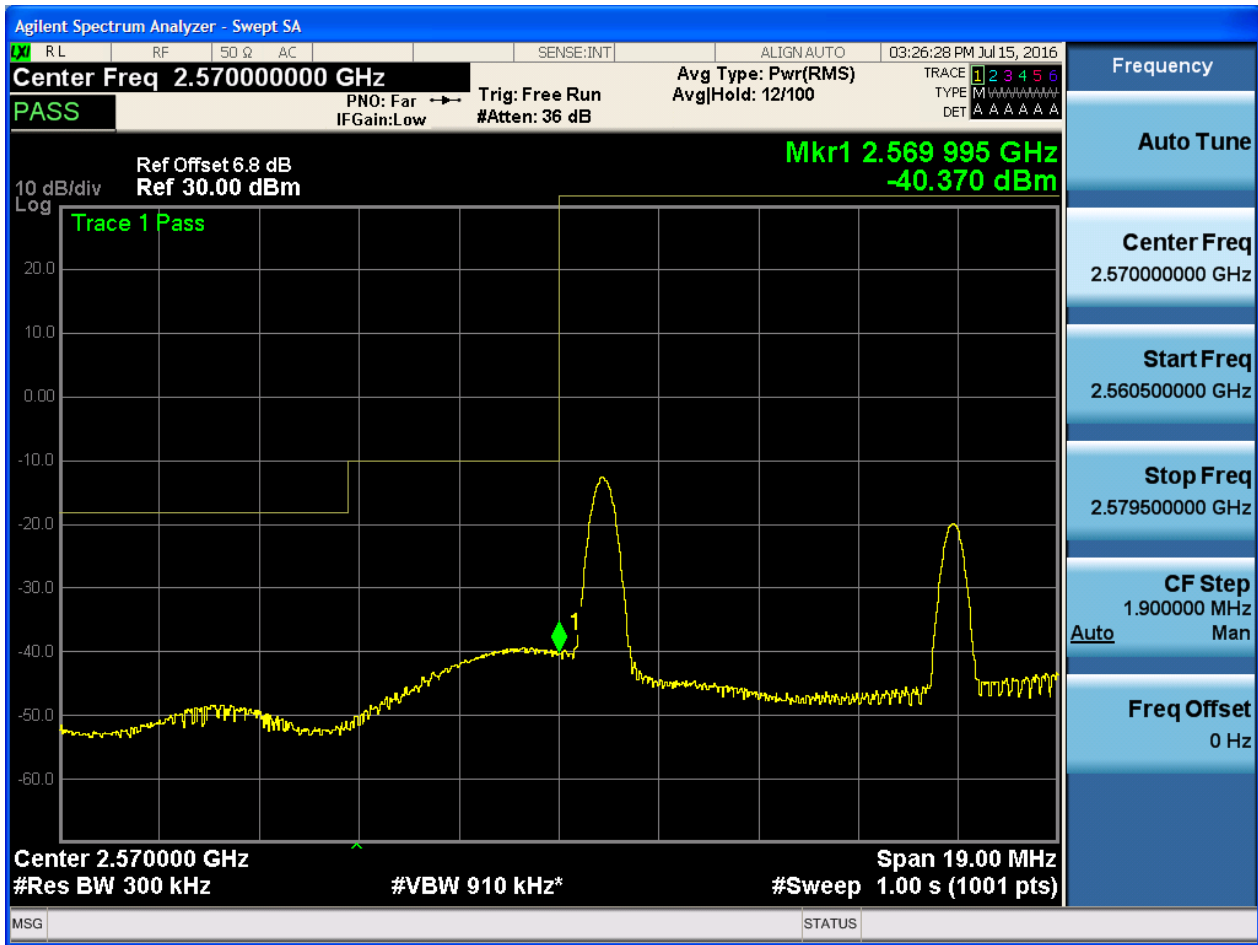
5.1.4.2.3.1 Test Channel = LCH

5.1.4.2.3.1.1 Test RB = RB1#0





5.1.4.2.3.1.2 Test RB = RB1#74



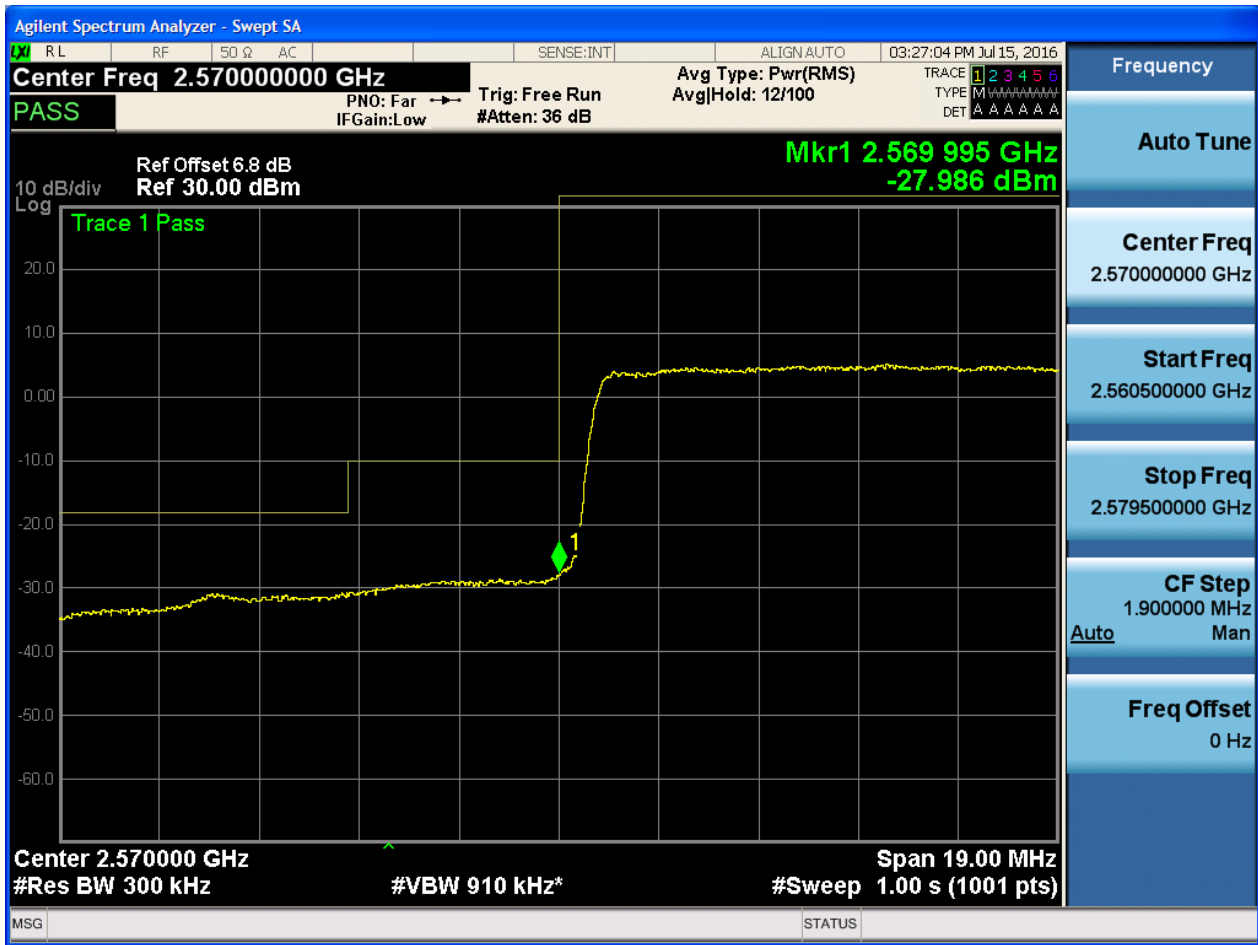


5.1.4.2.3.1.3 Test RB = RB36#18





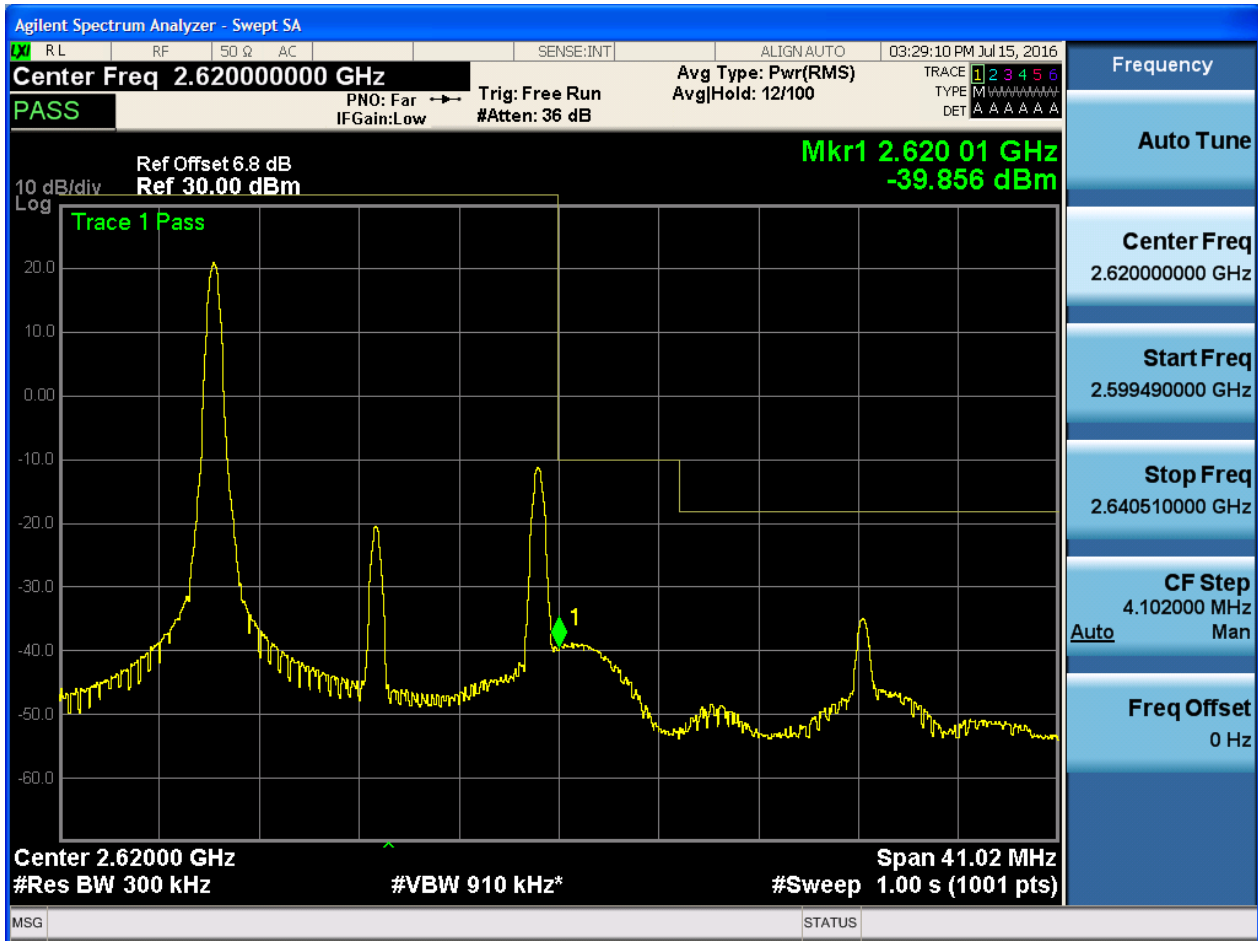
5.1.4.2.3.1.4 Test RB = RB75#0

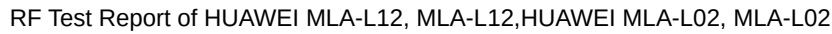




5.1.4.2.3.2 Test Channel = HCH

5.1.4.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

PASS

Ref Offset 6.8 dB
Ref 30.00 dBm

Mkr1 2.620 01 GHz
-23.118 dBm

Trace 1 Pass

Center 2.6200 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 41.02 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

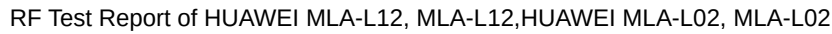
Start Freq
2.599490000 GHz

Stop Freq
2.640510000 GHz

CF Step
4.102000 MHz
Man

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer. The main display is a plot of power spectral density (PSD) in dBm/Hz versus frequency. The plot shows a swept spectrum with a prominent peak at 2.62001 GHz, marked with a yellow diamond and labeled '1'. The peak power is -23.118 dBm. The plot also shows several smaller peaks at lower frequencies. The plot is labeled 'Trace 1 Pass'. The plot has a grid with major lines every 10 dB/div and minor lines every 2 dB/div. The plot is titled 'Center Freq 2.62000000 GHz'. The plot is also titled 'Mkr1 2.620 01 GHz -23.118 dBm'. The plot is also titled 'Trace 1 Pass'. The plot is also titled 'Center 2.6200 GHz #Res BW 300 kHz #VBW 910 kHz* Span 41.02 MHz #Sweep 1.00 s (1001 pts)'. The plot is also titled 'Frequency Auto Tune Center Freq 2.62000000 GHz Start Freq 2.599490000 GHz Stop Freq 2.640510000 GHz CF Step 4.102000 MHz Man Freq Offset 0 Hz'.



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.62000000 GHz

Ref Offset 6.8 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Mkr1 2.620 01 GHz
-31.389 dBm

Center 2.62000 GHz
#Res BW 300 kHz
#VBW 910 kHz*

Span 41.02 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.62000000 GHz

Start Freq
2.599490000 GHz

Stop Freq
2.640510000 GHz

CF Step
4.102000 MHz
Man

Freq Offset
0 Hz



5.1.4.2.3.2.4 Test RB = RB75#0

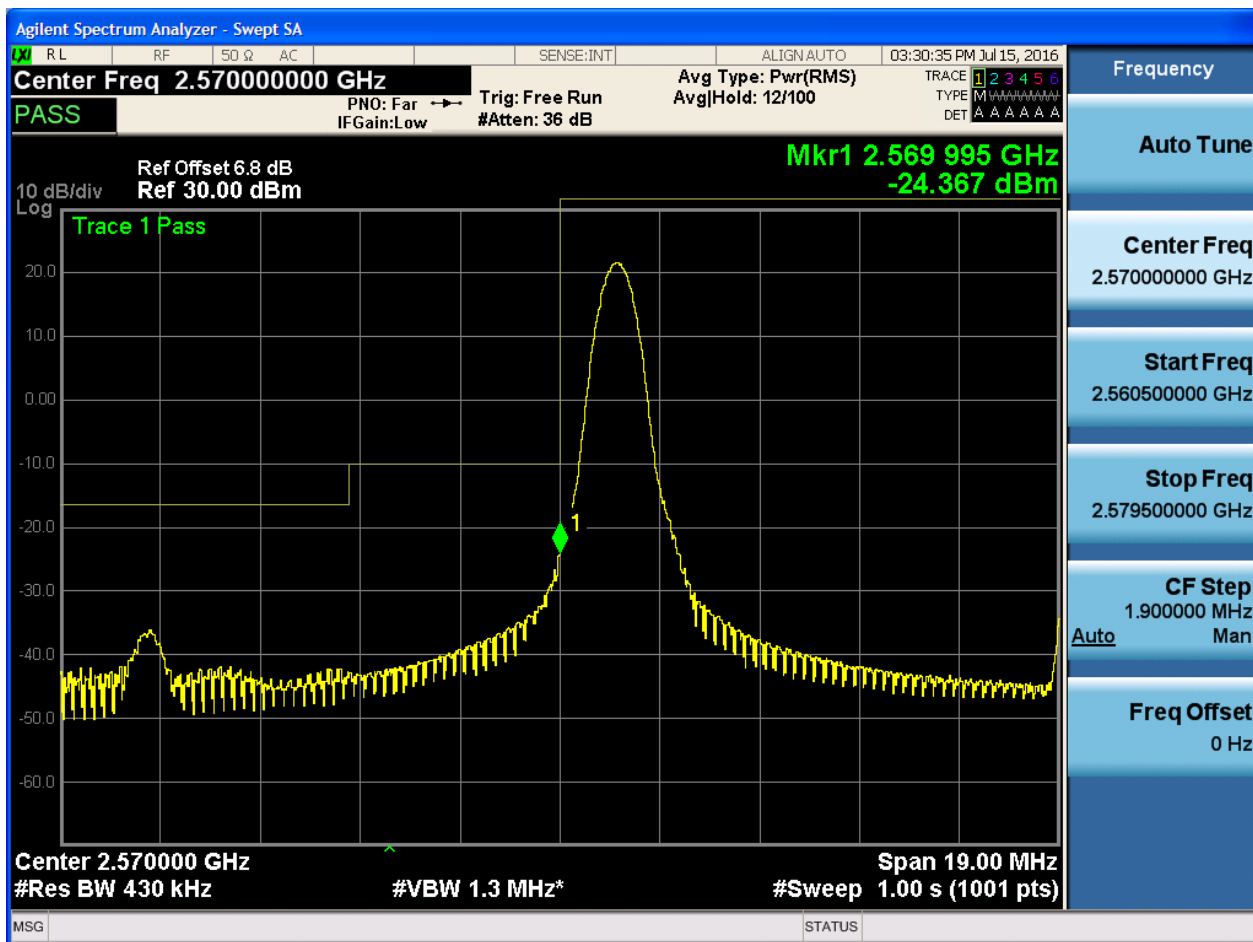


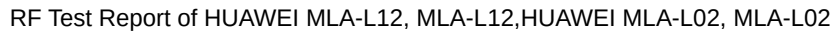


5.1.4.2.4 Test Bandwidth = 20

5.1.4.2.4.1 Test Channel = LCH

5.1.4.2.4.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 6.8 dB
Ref 30.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.569 995 GHz
-40.762 dBm

Center 2.57000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*

Span 19.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.560500000 GHz

Stop Freq
2.579500000 GHz

CF Step
1.900000 MHz
Man

Auto

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer in swept mode. The main display area shows a frequency spectrum with a prominent peak at 2.569995 GHz, marked with a green diamond and labeled 'Mkr1'. The peak power is -40.762 dBm. The center frequency is set to 2.57000000 GHz, and the span is 19.00 MHz. The resolution bandwidth (Res BW) is 430 kHz, and the video bandwidth (VBW) is 1.3 MHz. The sweep time is 1.00 s. The right-hand panel contains various settings and parameters, including Frequency, Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, Auto, and Freq Offset. The top status bar shows the center frequency, power level, and other measurement data.

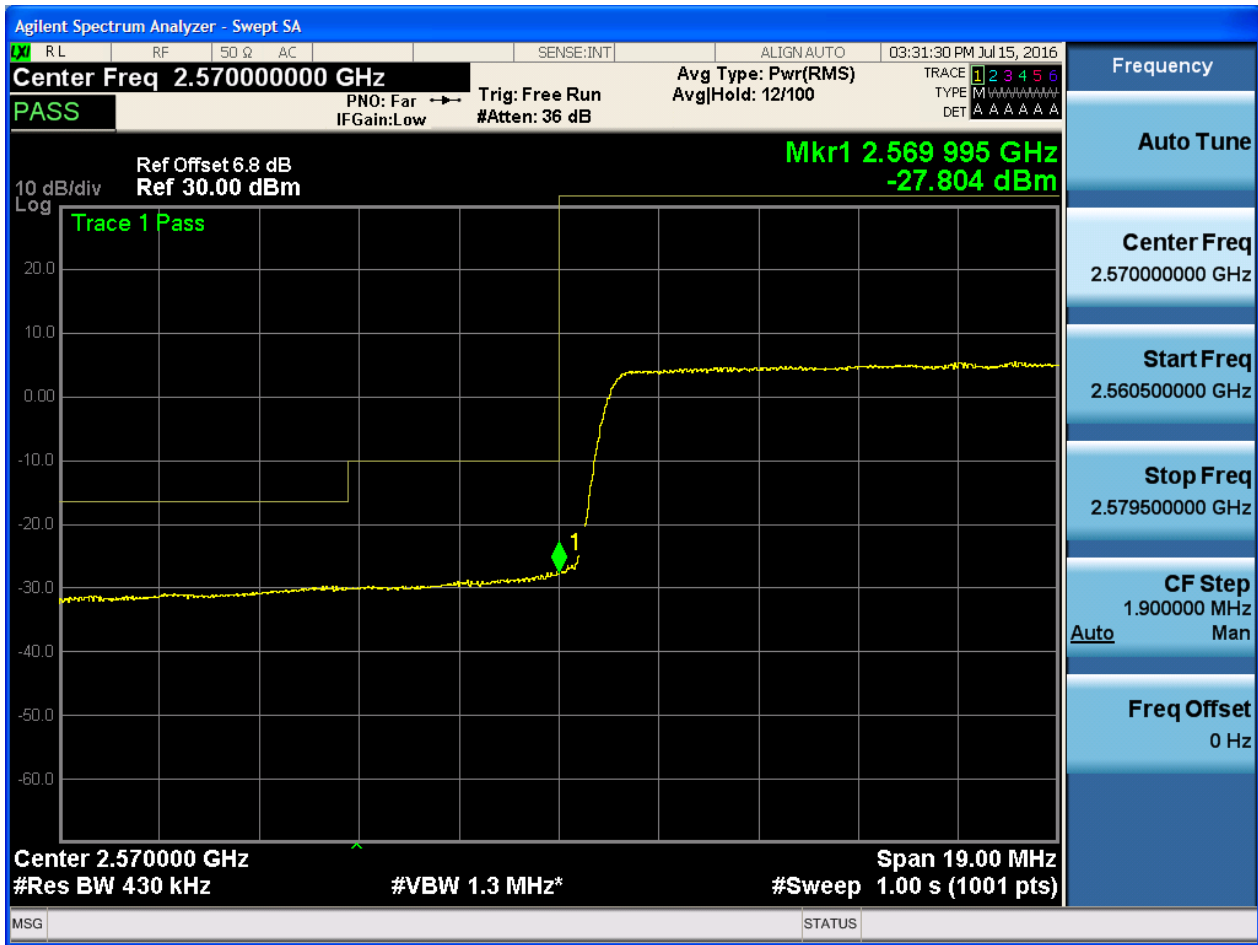


5.1.4.2.4.1.3 Test RB = RB50#25





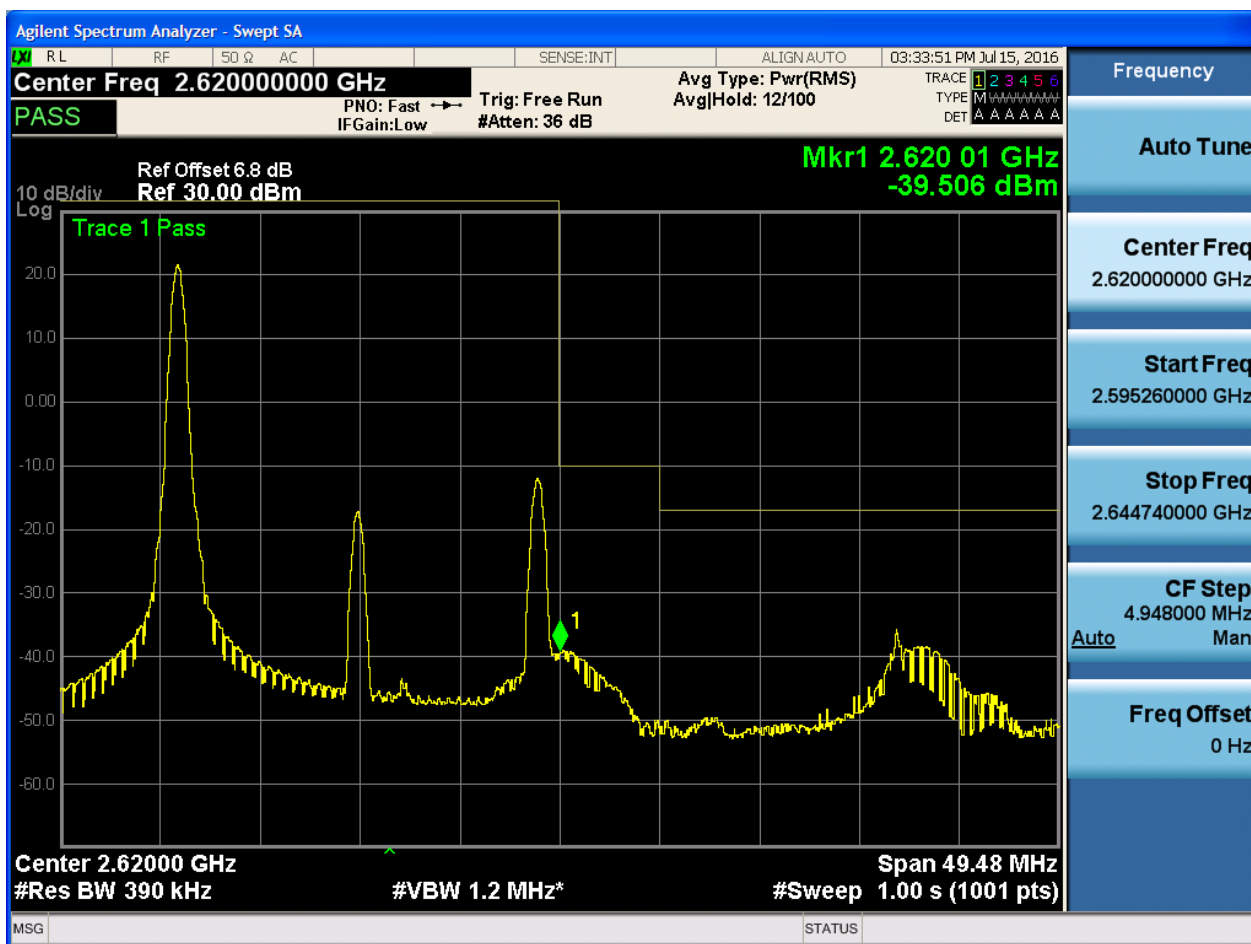
5.1.4.2.4.1.4 Test RB = RB100#0





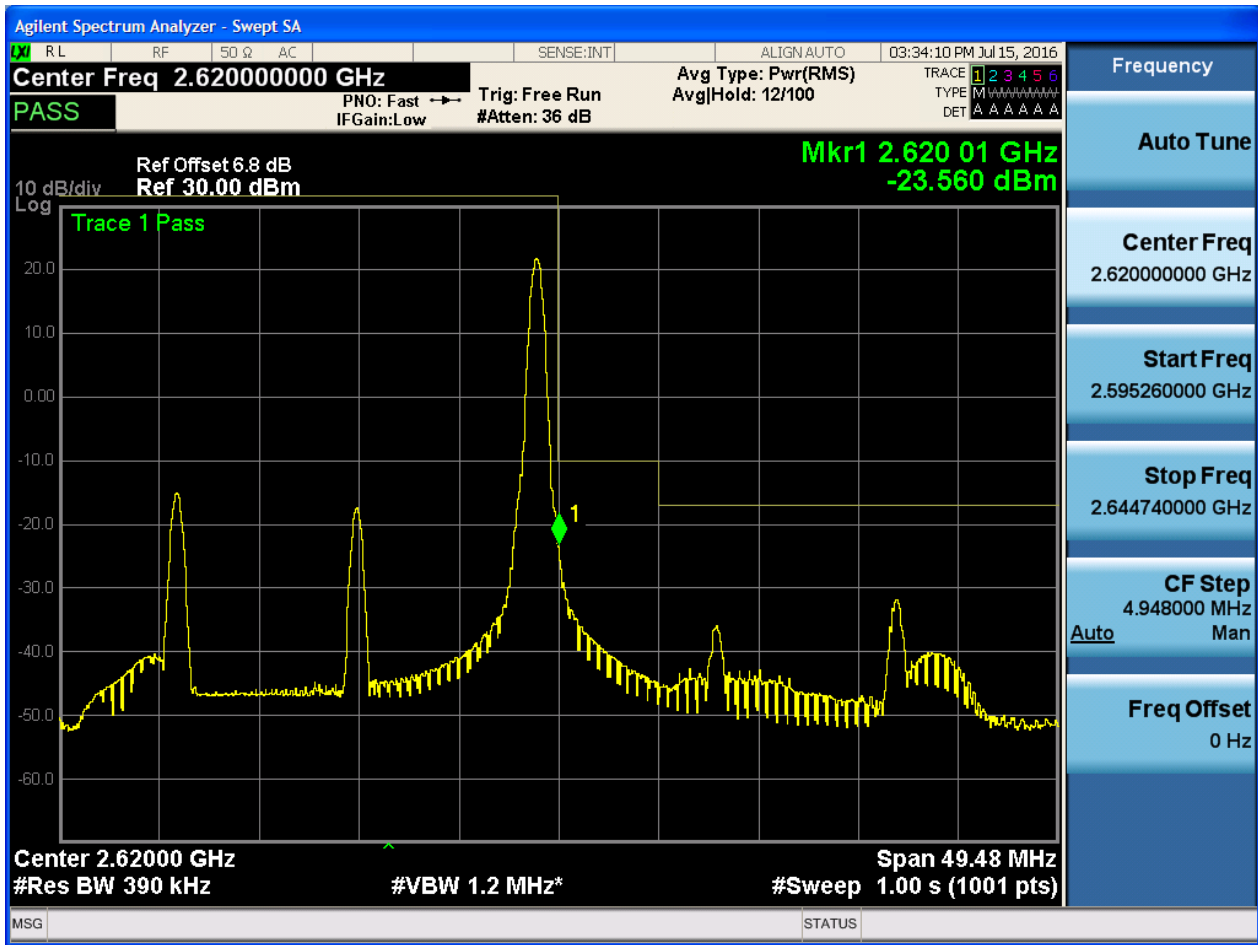
5.1.4.2.4.2 Test Channel = HCH

5.1.4.2.4.2.1 Test RB = RB1#0





5.1.4.2.4.2.2 Test RB = RB1#99





5.1.4.2.4.2.3 Test RB = RB50#25

