



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	22.44	22.66	33	PASS
				RB1#13	22.29	22.41	33	PASS
				RB1#24	22.58	22.57	33	PASS
				RB12#0	21.66	21.74	33	PASS
				RB12#6	21.47	21.57	33	PASS
				RB12#13	21.5	21.52	33	PASS
				RB25#0	21.57	21.65	33	PASS
			MCH	RB1#0	22.44	22.64	33	PASS
				RB1#13	22.33	22.33	33	PASS
				RB1#24	22.51	22.64	33	PASS
				RB12#0	21.39	21.34	33	PASS
				RB12#6	21.27	21.39	33	PASS
				RB12#13	21.29	21.56	33	PASS
				RB25#0	21.38	21.59	33	PASS
			HCH	RB1#0	22.56	22.64	33	PASS
				RB1#13	22.27	22.31	33	PASS
				RB1#24	22.48	22.39	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB12#0	21.43	21.35	33	PASS
				RB12#6	21.33	21.62	33	PASS
				RB12#13	21.34	21.45	33	PASS
				RB25#0	21.36	21.57	33	PASS
		10	LCH	RB1#0	22.64	22.77	33	PASS
				RB1#25	22.5	22.68	33	PASS
				RB1#49	22.78	22.91	33	PASS
				RB25#0	21.57	21.73	33	PASS
				RB25#13	21.28	21.40	33	PASS
				RB25#25	21.42	21.33	33	PASS
				RB50#0	21.52	21.56	33	PASS
			MCH	RB1#0	22.61	22.71	33	PASS
				RB1#25	22.43	22.66	33	PASS
				RB1#49	22.34	22.29	33	PASS
				RB25#0	21.49	21.56	33	PASS
				RB25#13	21.21	21.29	33	PASS
				RB25#25	21.2	21.31	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#0	21.45	21.48	33	PASS
			HCH	RB1#0	22.62	22.72	33	PASS
				RB1#25	22.52	22.49	33	PASS
				RB1#49	22.3	22.26	33	PASS
				RB25#0	21.48	21.44	33	PASS
				RB25#13	21.38	21.61	33	PASS
				RB25#25	21.33	21.63	33	PASS
				RB50#0	21.51	21.49	33	PASS
		15	LCH	RB1#0	22.86	22.83	33	PASS
				RB1#38	22.61	22.53	33	PASS
				RB1#74	22.59	22.60	33	PASS
				RB36#0	21.5	21.46	33	PASS
				RB36#18	21.28	21.45	33	PASS
				RB36#39	21.56	21.76	33	PASS
				RB75#0	21.52	21.44	33	PASS
			MCH	RB1#0	22.86	22.78	33	PASS
				RB1#38	22.25	22.35	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#74	22.41	22.71	33	PASS
				RB36#0	21.48	21.52	33	PASS
				RB36#18	21.29	21.52	33	PASS
				RB36#39	21.18	21.32	33	PASS
				RB75#0	21.38	21.61	33	PASS
			HCH	RB1#0	22.84	22.80	33	PASS
				RB1#38	22.31	22.38	33	PASS
				RB1#74	22.53	22.68	33	PASS
				RB36#0	21.54	21.74	33	PASS
				RB36#18	21.34	21.55	33	PASS
				RB36#39	21.35	21.32	33	PASS
				RB75#0	21.43	21.41	33	PASS
		20	LCH	RB1#0	22.92	23.14	33	PASS
				RB1#50	22.49	22.46	33	PASS
				RB1#99	22.56	22.74	33	PASS
				RB50#0	21.45	21.57	33	PASS
				RB50#25	21.26	21.17	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB50#50	21.41	21.34	33	PASS
				RB100#0	21.68	21.70	33	PASS
			MCH	RB1#0	22.65	22.73	33	PASS
				RB1#50	22.17	22.10	33	PASS
				RB1#99	22.09	22.34	33	PASS
				RB50#0	21.39	21.61	33	PASS
				RB50#25	21.21	21.16	33	PASS
				RB50#50	21.1	21.22	33	PASS
				RB100#0	21.3	21.52	33	PASS
			HCH	RB1#0	22.47	22.54	33	PASS
				RB1#50	22.14	22.12	33	PASS
				RB1#99	22.15	22.10	33	PASS
				RB50#0	21.25	21.18	33	PASS
				RB50#25	21.26	21.22	33	PASS
				RB50#50	21.2	21.48	33	PASS
				RB100#0	21.21	21.35	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.46	21.56	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#13	20.93	20.86	33	PASS
				RB1#24	21.11	21.13	33	PASS
				RB12#0	20.63	20.62	33	PASS
				RB12#6	20.27	20.49	33	PASS
				RB12#13	20.72	20.70	33	PASS
				RB25#0	20.48	20.52	33	PASS
			MCH	RB1#0	21.08	21.02	33	PASS
				RB1#13	20.89	21.06	33	PASS
				RB1#24	21.2	21.49	33	PASS
				RB12#0	20.56	20.50	33	PASS
				RB12#6	20.36	20.53	33	PASS
				RB12#13	20.38	20.68	33	PASS
				RB25#0	20.25	20.43	33	PASS
			HCH	RB1#0	21.33	21.24	33	PASS
				RB1#13	21.16	21.19	33	PASS
				RB1#24	21.24	21.51	33	PASS
				RB12#0	20.48	20.63	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB12#6	20.37	20.48	33	PASS
				RB12#13	20.47	20.56	33	PASS
				RB25#0	20.5	20.47	33	PASS
		10	LCH	RB1#0	21.84	22.10	33	PASS
				RB1#25	21.54	21.51	33	PASS
				RB1#49	21.75	21.68	33	PASS
				RB25#0	20.6	20.55	33	PASS
				RB25#13	20.45	20.51	33	PASS
				RB25#25	20.48	20.76	33	PASS
				RB50#0	20.51	20.59	33	PASS
			MCH	RB1#0	21.61	21.88	33	PASS
				RB1#25	21.51	21.62	33	PASS
				RB1#49	21.48	21.61	33	PASS
				RB25#0	20.63	20.70	33	PASS
				RB25#13	20.41	20.35	33	PASS
				RB25#25	20.3	20.46	33	PASS
				RB50#0	20.41	20.46	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.71	21.65	33	PASS
				RB1#25	21.78	21.88	33	PASS
				RB1#49	21.38	21.39	33	PASS
				RB25#0	20.46	20.61	33	PASS
				RB25#13	20.34	20.29	33	PASS
				RB25#25	20.3	20.27	33	PASS
				RB50#0	20.47	20.45	33	PASS
		15	LCH	RB1#0	21.86	21.88	33	PASS
				RB1#38	21.51	21.74	33	PASS
				RB1#74	21.74	21.94	33	PASS
				RB36#0	20.63	20.77	33	PASS
				RB36#18	20.4	20.61	33	PASS
				RB36#39	20.54	20.69	33	PASS
				RB75#0	20.55	20.55	33	PASS
			MCH	RB1#0	21.91	22.16	33	PASS
				RB1#38	21.53	21.59	33	PASS
				RB1#74	21.26	21.43	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB36#0	20.57	20.76	33	PASS
				RB36#18	20.39	20.61	33	PASS
				RB36#39	20.3	20.43	33	PASS
				RB75#0	20.48	20.40	33	PASS
			HCH	RB1#0	21.87	21.81	33	PASS
				RB1#38	21.47	21.74	33	PASS
				RB1#74	21.68	21.91	33	PASS
				RB36#0	20.53	20.76	33	PASS
				RB36#18	20.43	20.40	33	PASS
				RB36#39	20.45	20.43	33	PASS
				RB75#0	20.52	20.81	33	PASS
		20	LCH	RB1#0	22.28	22.22	33	PASS
				RB1#50	21.67	21.78	33	PASS
				RB1#99	22	22.00	33	PASS
				RB50#0	20.67	20.75	33	PASS
				RB50#25	20.56	20.67	33	PASS
				RB50#50	20.66	20.76	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB100#0	20.52	20.53	33	PASS
				RB1#0	21.77	21.69	33	PASS
			MCH	RB1#50	21.48	21.71	33	PASS
				RB1#99	21.79	21.94	33	PASS
				RB50#0	20.64	20.94	33	PASS
				RB50#25	20.37	20.34	33	PASS
				RB50#50	20.28	20.39	33	PASS
				RB100#0	20.47	20.67	33	PASS
			HCH	RB1#0	22.17	22.22	33	PASS
				RB1#50	21.73	21.95	33	PASS
				RB1#99	21.74	21.74	33	PASS
				RB50#0	20.42	20.42	33	PASS
				RB50#25	20.47	20.51	33	PASS
				RB50#50	20.49	20.45	33	PASS
				RB100#0	20.32	20.60	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,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$



$EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]$

b, SGP=Signal Generator Level

Note2: $RBW > \text{emission bandwidth}$, $VBW > 3 \times RBW$.

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	3.19	13	PASS
				RB1#13	3.26	13	PASS
				RB1#24	3.19	13	PASS
				RB12#0	4.09	13	PASS
				RB12#6	4.02	13	PASS
				RB12#13	4.24	13	PASS
				RB25#0	4.7	13	PASS
			MCH	RB1#0	3.49	13	PASS
				RB1#13	3.46	13	PASS
				RB1#24	3.39	13	PASS
				RB12#0	4.35	13	PASS
				RB12#6	4.12	13	PASS
				RB12#13	4.23	13	PASS
				RB25#0	4.79	13	PASS
			HCH	RB1#0	3.23	13	PASS
				RB1#13	3.31	13	PASS
				RB1#24	3.21	13	PASS
				RB12#0	4.23	13	PASS
				RB12#6	4.03	13	PASS
				RB12#13	4.12	13	PASS
				RB25#0	4.73	13	PASS
		10	LCH	RB1#0	3.01	13	PASS
				RB1#25	3.28	13	PASS
				RB1#49	3.95	13	PASS
				RB25#0	4.48	13	PASS
				RB25#13	4.61	13	PASS
				RB25#25	4.64	13	PASS
				RB50#0	5.11	13	PASS
			MCH	RB1#0	3.47	13	PASS
				RB1#25	3.38	13	PASS
				RB1#49	3.39	13	PASS
				RB25#0	4.36	13	PASS
				RB25#13	4.21	13	PASS
				RB25#25	4.39	13	PASS
				RB50#0	5.16	13	PASS
			HCH	RB1#0	3.57	13	PASS
				RB1#25	3.36	13	PASS
				RB1#49	3.19	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	4.35	13	PASS
				RB25#13	4.19	13	PASS
				RB25#25	4.18	13	PASS
				RB50#0	4.69	13	PASS
		15	LCH	RB1#0	2.94	13	PASS
				RB1#38	3.92	13	PASS
				RB1#74	4.1	13	PASS
				RB36#0	4.59	13	PASS
				RB36#18	4.62	13	PASS
				RB36#39	4.86	13	PASS
				RB75#0	5.53	13	PASS
			MCH	RB1#0	3.45	13	PASS
				RB1#38	3.41	13	PASS
				RB1#74	3.45	13	PASS
				RB36#0	4.42	13	PASS
				RB36#18	4.21	13	PASS
				RB36#39	4.43	13	PASS
				RB75#0	5.26	13	PASS
			HCH	RB1#0	3.55	13	PASS
				RB1#38	3.48	13	PASS
				RB1#74	3.08	13	PASS
				RB36#0	4.55	13	PASS
				RB36#18	4.33	13	PASS
				RB36#39	4.31	13	PASS
				RB75#0	5.27	13	PASS
		20	LCH	RB1#0	3.05	13	PASS
				RB1#50	4.08	13	PASS
				RB1#99	4.23	13	PASS
				RB50#0	4.74	13	PASS
				RB50#25	4.74	13	PASS
				RB50#50	4.96	13	PASS
				RB100#0	5.46	13	PASS
			MCH	RB1#0	3.73	13	PASS
				RB1#50	3.44	13	PASS
				RB1#99	3.65	13	PASS
				RB50#0	4.48	13	PASS
				RB50#25	4.34	13	PASS
				RB50#50	4.42	13	PASS
				RB100#0	4.92	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2		HCH	RB1#0	3.71	13	PASS
				RB1#50	3.75	13	PASS
				RB1#99	3.3	13	PASS
				RB50#0	4.68	13	PASS
				RB50#25	4.48	13	PASS
				RB50#50	4.42	13	PASS
				RB100#0	5.06	13	PASS
		5	LCH	RB1#0	4.15	13	PASS
				RB1#13	4.47	13	PASS
				RB1#24	4.54	13	PASS
				RB12#0	5.06	13	PASS
				RB12#6	4.88	13	PASS
				RB12#13	5.1	13	PASS
				RB25#0	5.65	13	PASS
			MCH	RB1#0	4.58	13	PASS
				RB1#13	4.58	13	PASS
				RB1#24	4.43	13	PASS
				RB12#0	5.18	13	PASS
				RB12#6	4.99	13	PASS
				RB12#13	5.12	13	PASS
				RB25#0	5.8	13	PASS
			HCH	RB1#0	4.38	13	PASS
				RB1#13	4.41	13	PASS
				RB1#24	4.17	13	PASS
				RB12#0	5.14	13	PASS
				RB12#6	4.98	13	PASS
				RB12#13	5.03	13	PASS
				RB25#0	5.59	13	PASS
		10	LCH	RB1#0	4.47	13	PASS
				RB1#25	4.86	13	PASS
				RB1#49	5.05	13	PASS
				RB25#0	5.59	13	PASS
				RB25#13	5.52	13	PASS
				RB25#25	5.67	13	PASS
				RB50#0	5.85	13	PASS
			MCH	RB1#0	4.47	13	PASS
				RB1#25	4.47	13	PASS
				RB1#49	4.64	13	PASS
				RB25#0	5.31	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	5.13	13	PASS
				RB25#25	5.28	13	PASS
				RB50#0	5.62	13	PASS
			HCH	RB1#0	4.61	13	PASS
				RB1#25	4.43	13	PASS
				RB1#49	4.35	13	PASS
				RB25#0	5.41	13	PASS
				RB25#13	5.15	13	PASS
				RB25#25	5.2	13	PASS
				RB50#0	5.73	13	PASS
		15	LCH	RB1#0	4.41	13	PASS
				RB1#38	5.05	13	PASS
				RB1#74	5.02	13	PASS
				RB36#0	5.52	13	PASS
				RB36#18	5.55	13	PASS
				RB36#39	5.81	13	PASS
				RB75#0	6.3	13	PASS
			MCH	RB1#0	4.43	13	PASS
				RB1#38	4.55	13	PASS
				RB1#74	4.4	13	PASS
				RB36#0	5.37	13	PASS
				RB36#18	5.19	13	PASS
				RB36#39	5.33	13	PASS
				RB75#0	5.94	13	PASS
			HCH	RB1#0	4.96	13	PASS
				RB1#38	5.05	13	PASS
				RB1#74	4.51	13	PASS
				RB36#0	5.78	13	PASS
				RB36#18	5.59	13	PASS
				RB36#39	5.56	13	PASS
				RB75#0	6.32	13	PASS
		20	LCH	RB1#0	3.51	13	PASS
				RB1#50	4.59	13	PASS
				RB1#99	4.7	13	PASS
				RB50#0	5.62	13	PASS
				RB50#25	5.6	13	PASS
				RB50#50	5.86	13	PASS
				RB100#0	6.24	13	PASS
			MCH	RB1#0	4.16	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	4.11	13	PASS
				RB1#99	4.2	13	PASS
				RB50#0	5.38	13	PASS
				RB50#25	5.16	13	PASS
				RB50#50	5.34	13	PASS
				RB100#0	6.24	13	PASS
			HCH	RB1#0	4.13	13	PASS
				RB1#50	4.27	13	PASS
				RB1#99	3.91	13	PASS
				RB50#0	5.57	13	PASS
				RB50#25	5.33	13	PASS
				RB50#50	5.33	13	PASS
				RB100#0	6.12	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

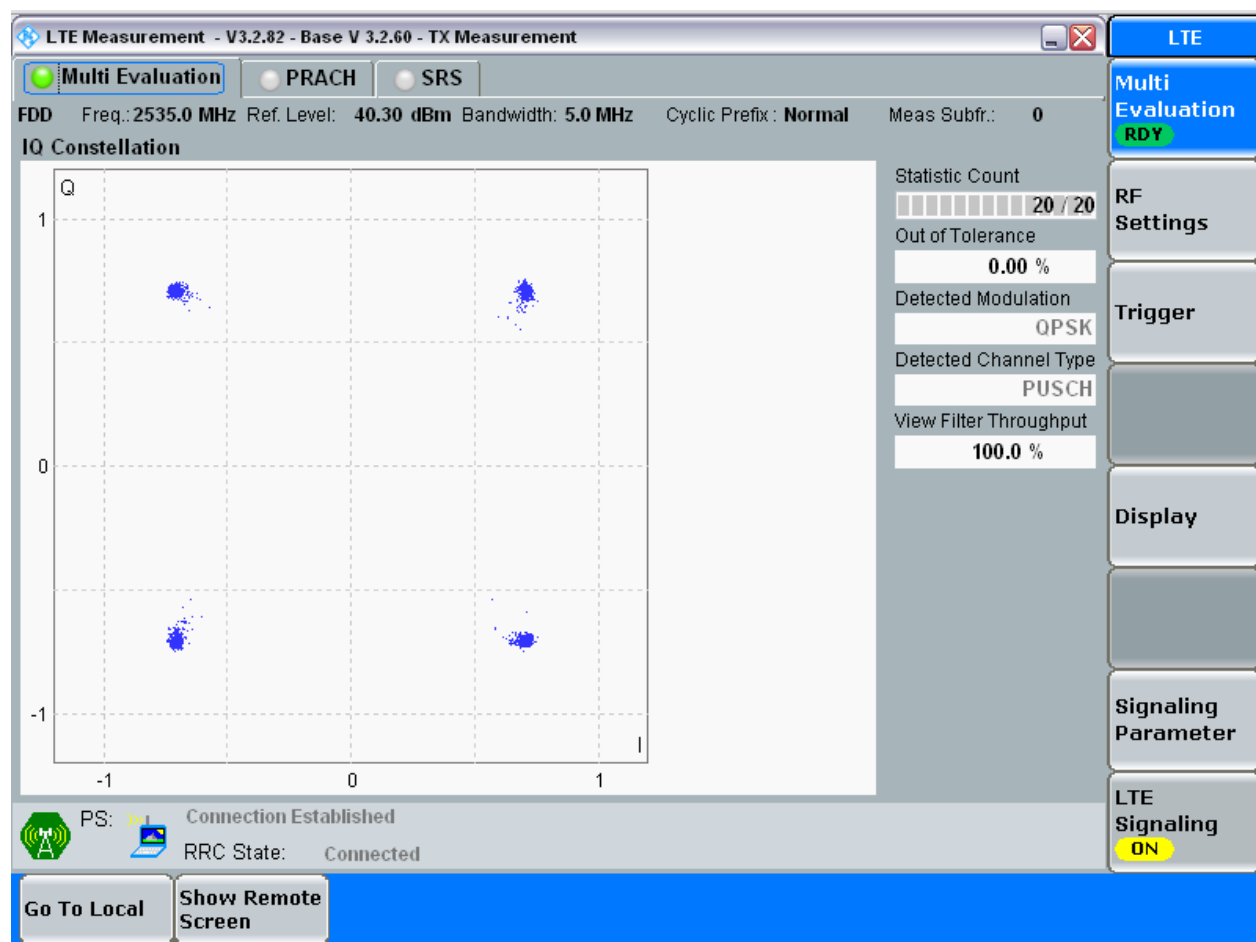
3.1.1 Test Band = BAND7

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

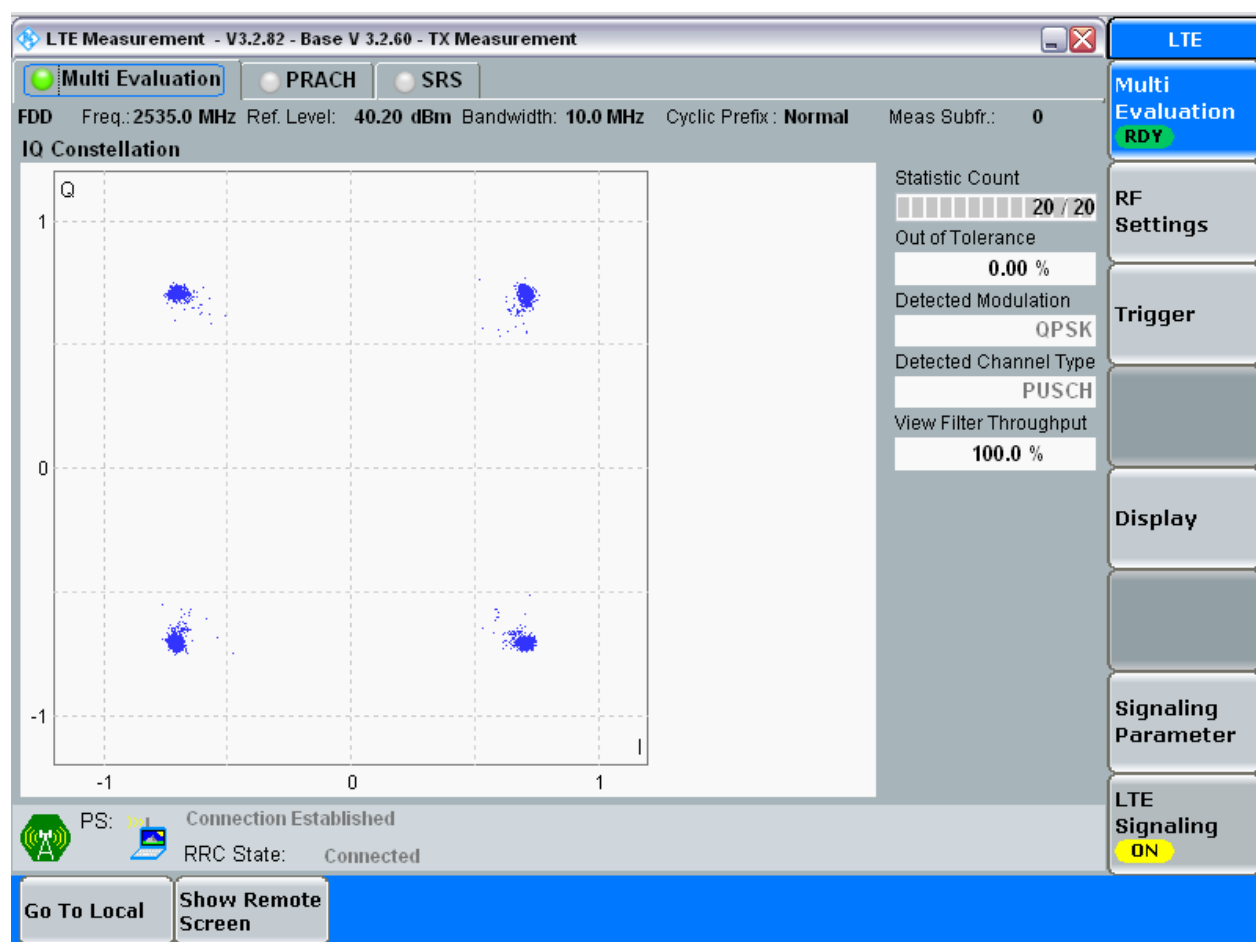
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

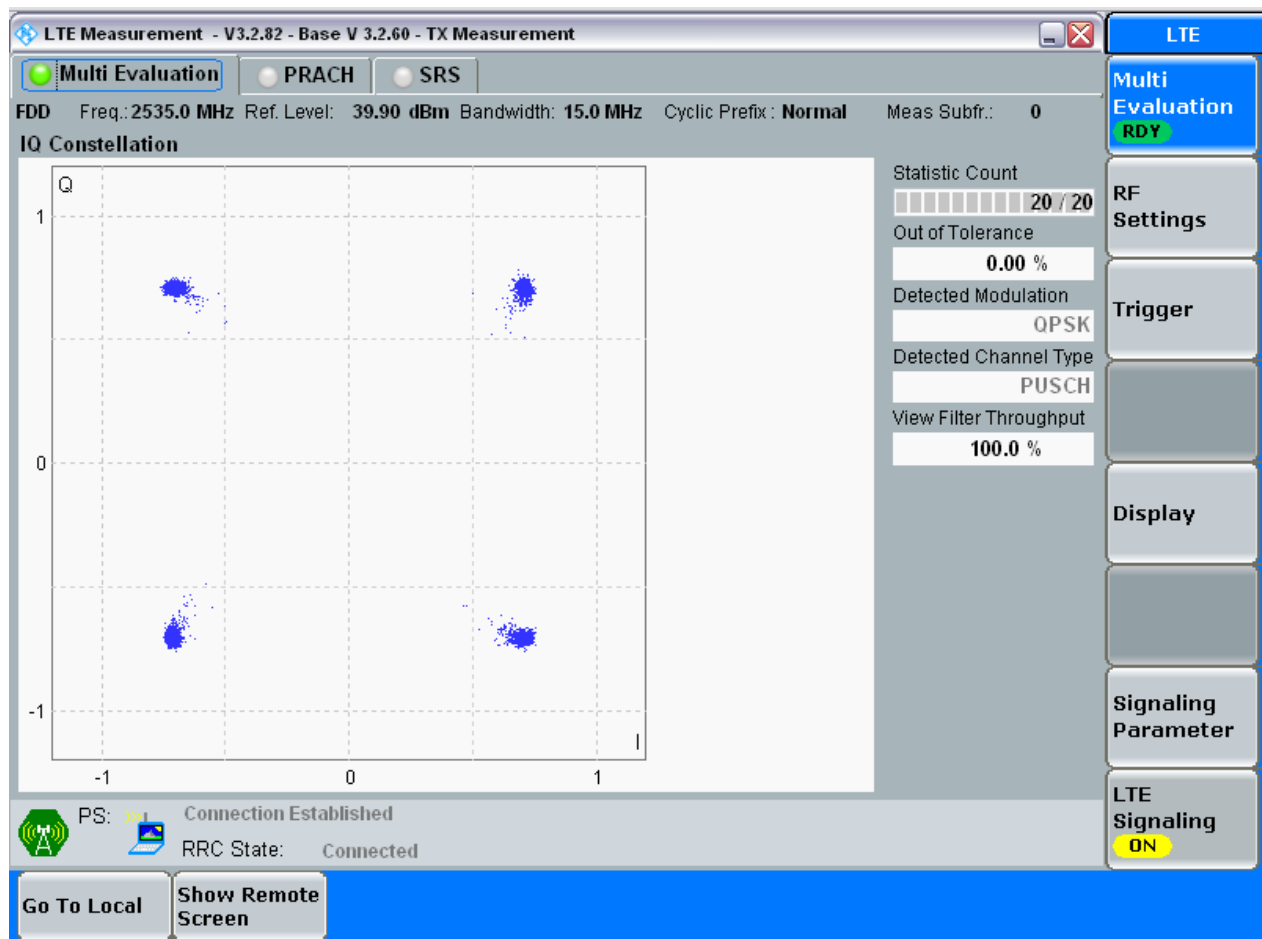
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

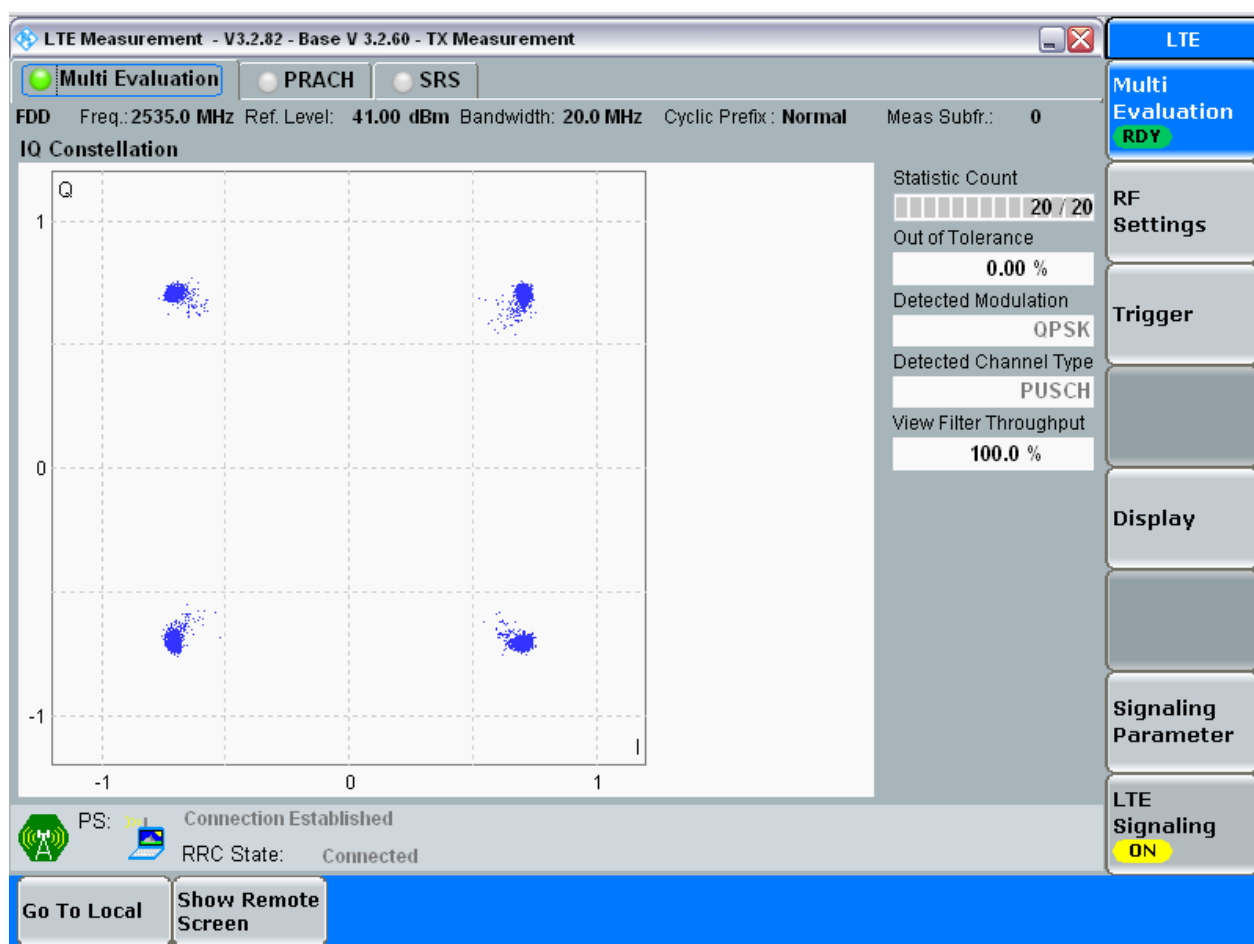
3.1.1.1.3.1.1 Test RB = RB75#0



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

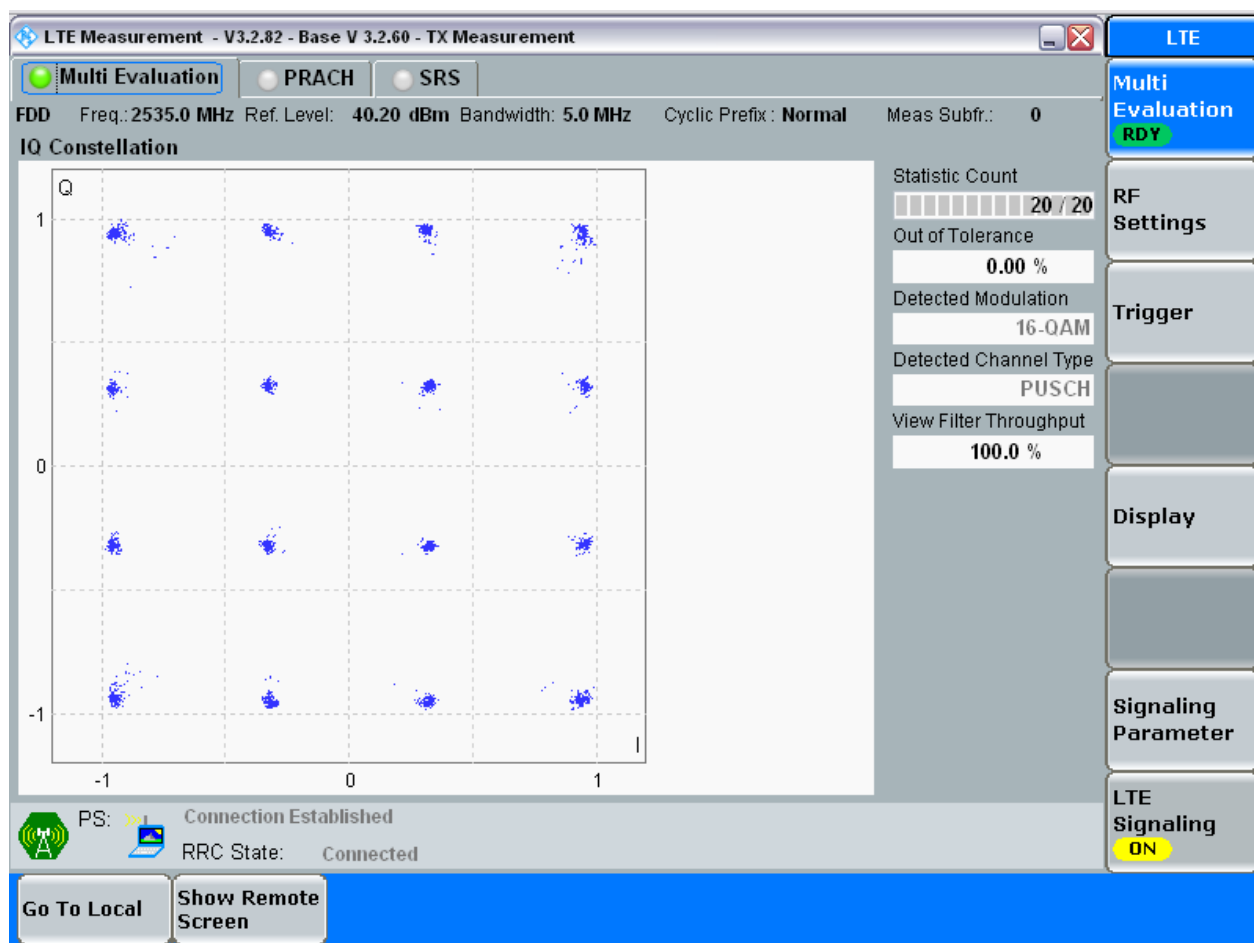


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

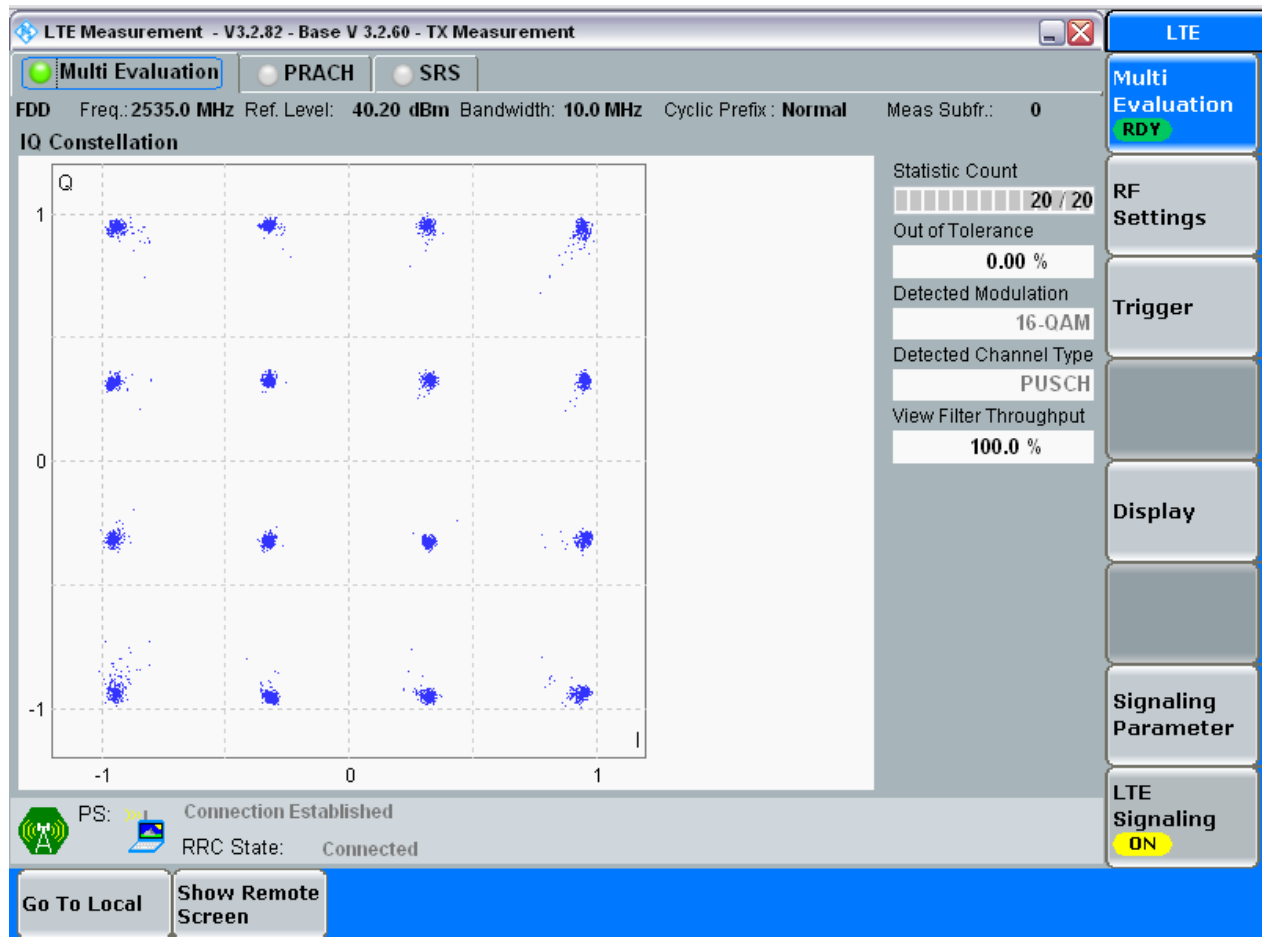
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

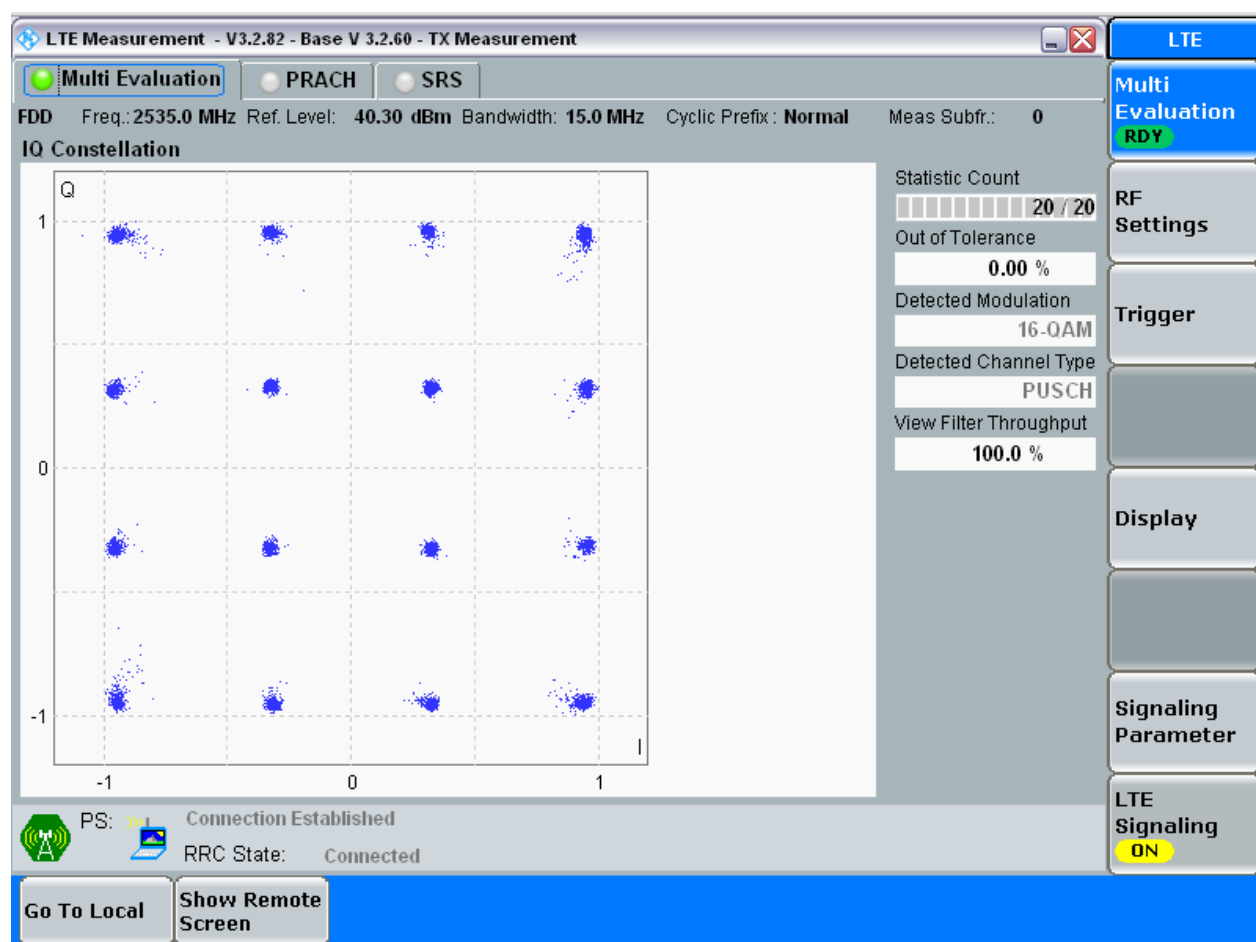
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

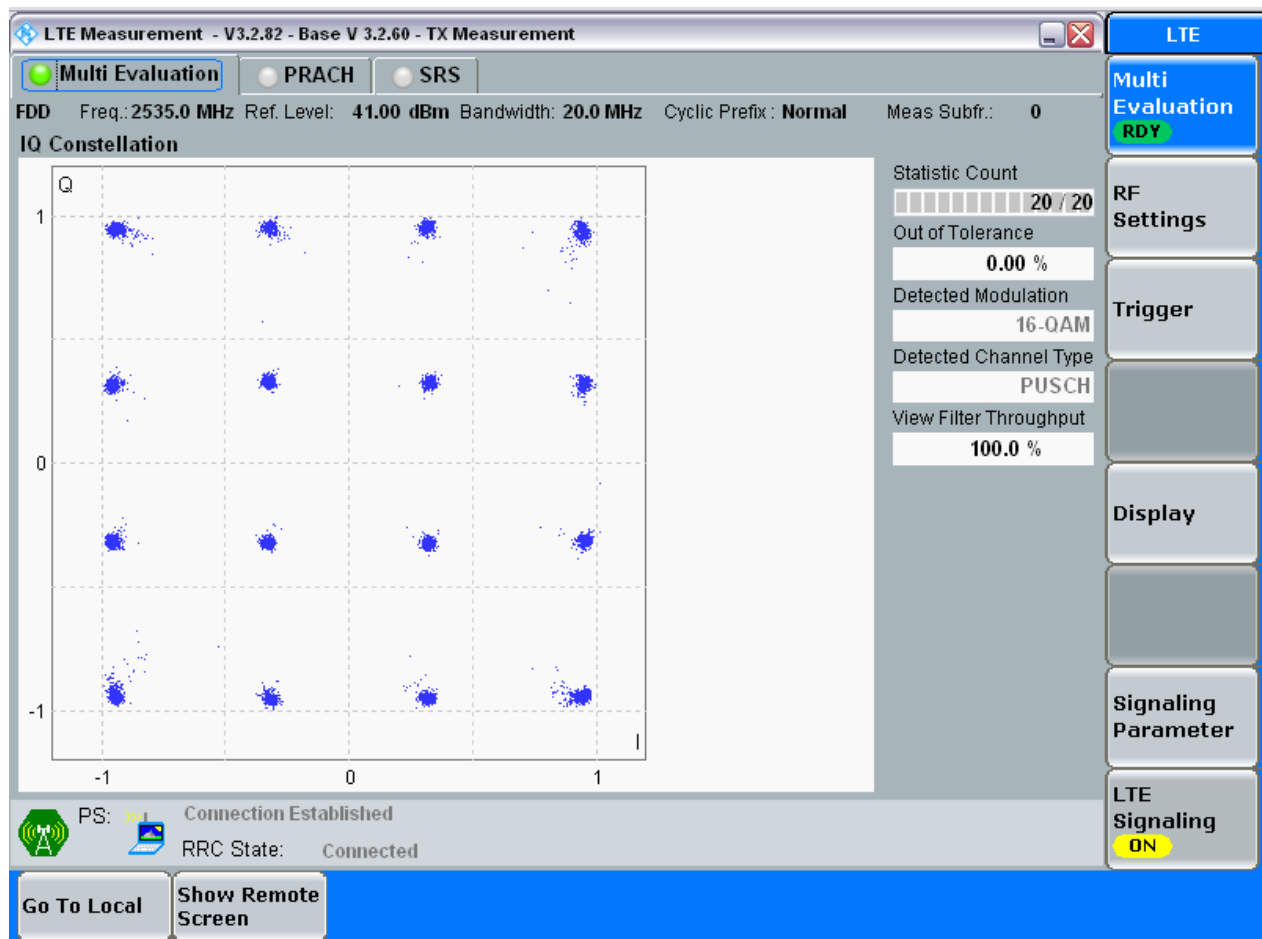
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.92	Pass
			MCH	RB25#0	4.51	4.95	Pass
			HCH	RB25#0	4.51	4.93	Pass
		10	LCH	RB50#0	8.99	9.69	Pass
			MCH	RB50#0	8.99	9.66	Pass
			HCH	RB50#0	8.99	9.66	Pass
		15	LCH	RB75#0	13.50	14.43	Pass
			MCH	RB75#0	13.49	14.42	Pass
			HCH	RB75#0	13.49	14.42	Pass
		20	LCH	RB100#0	17.97	19.01	Pass
			MCH	RB100#0	17.93	19.00	Pass
			HCH	RB100#0	17.95	19.00	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	4.88	Pass
			MCH	RB25#0	4.51	4.88	Pass
			HCH	RB25#0	4.51	4.91	Pass
		10	LCH	RB50#0	8.98	9.64	Pass
			MCH	RB50#0	8.98	9.59	Pass
			HCH	RB50#0	8.98	9.62	Pass
		15	LCH	RB75#0	13.49	14.28	Pass
			MCH	RB75#0	13.48	14.30	Pass
			HCH	RB75#0	13.48	14.31	Pass
		20	LCH	RB100#0	17.97	19.00	Pass
			MCH	RB100#0	17.94	18.97	Pass
			HCH	RB100#0	17.96	19.01	Pass

Part II - Test Plots

4.1 For LTE

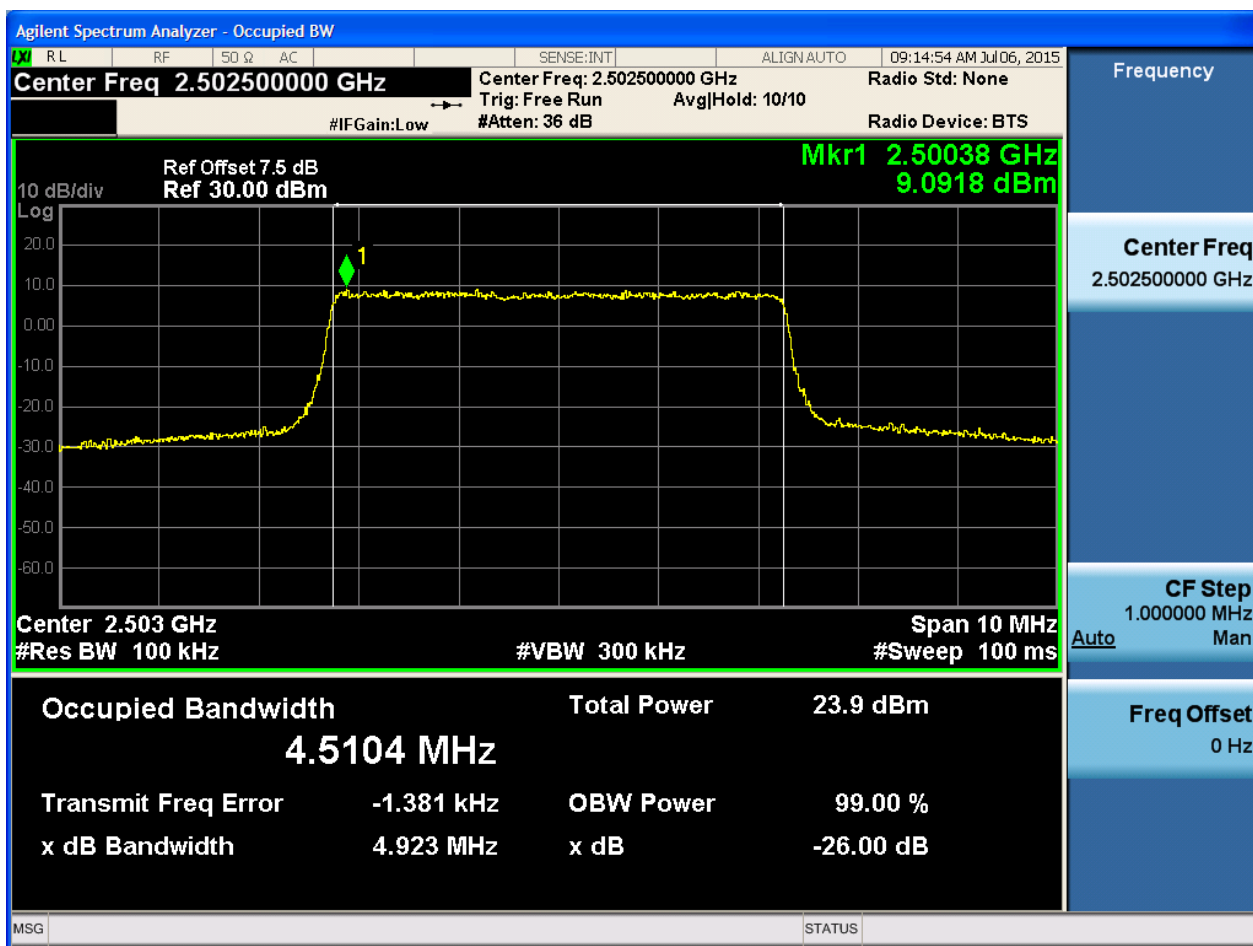
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

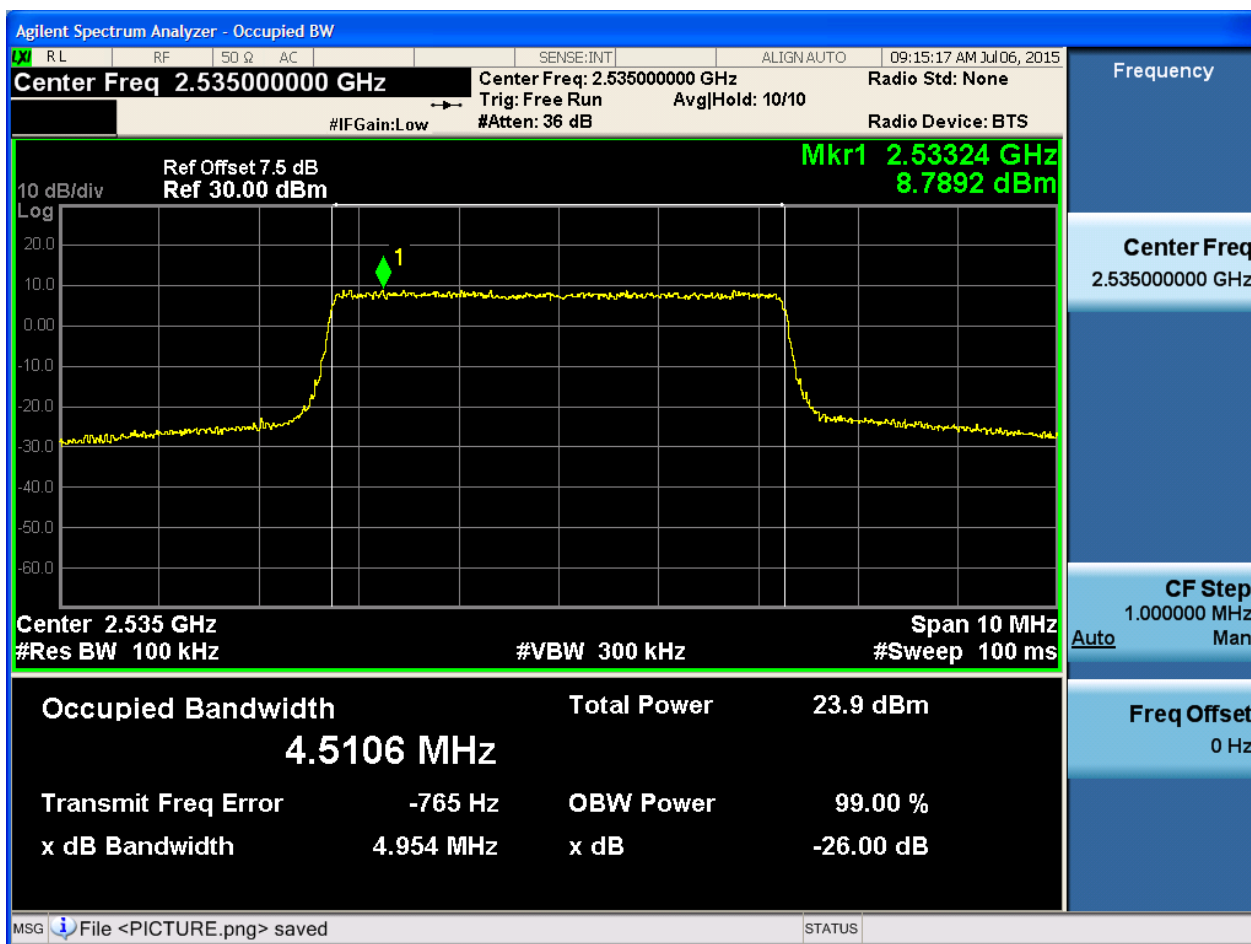
4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB25#0



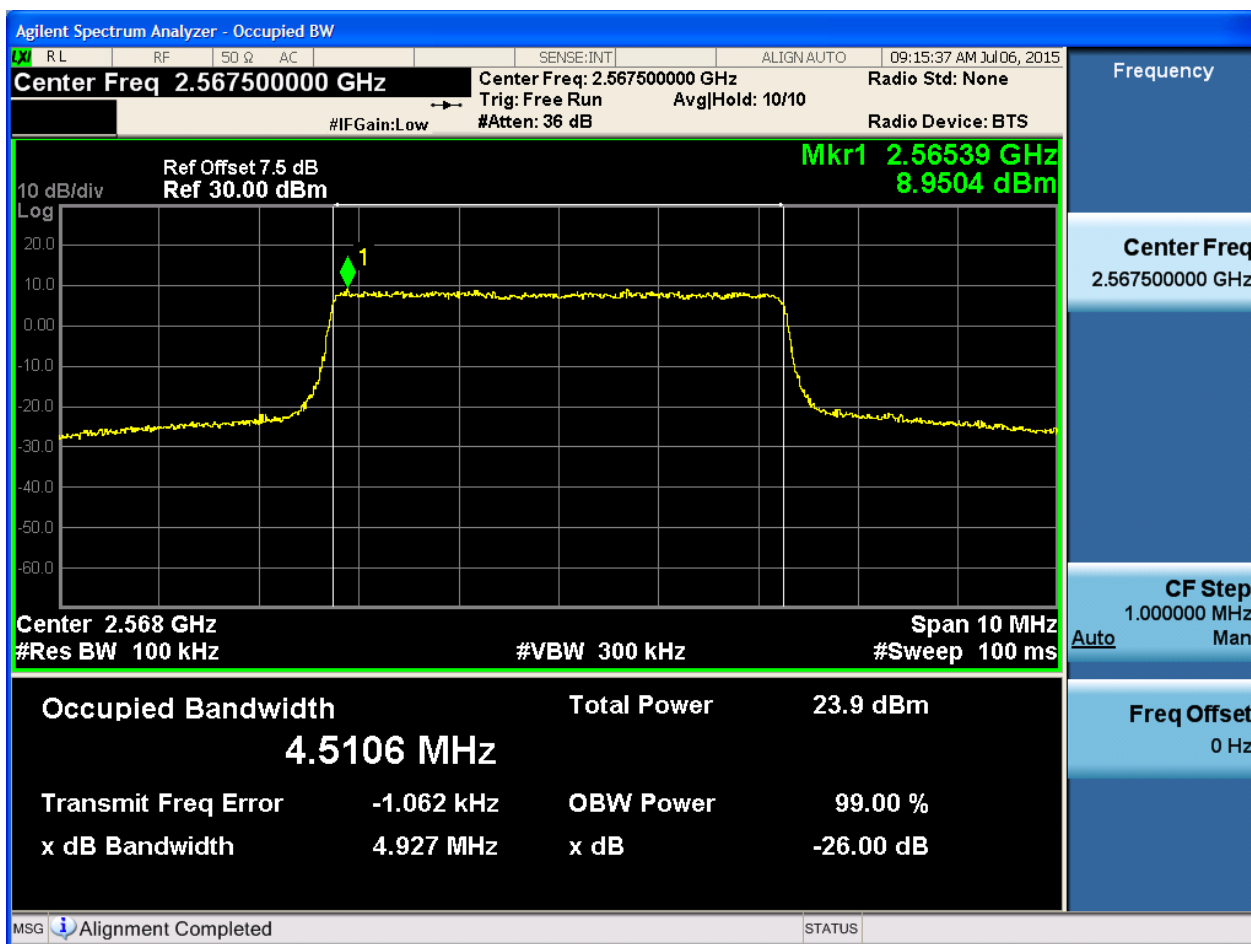
4.1.1.1.1.2 Test Channel = MCH

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

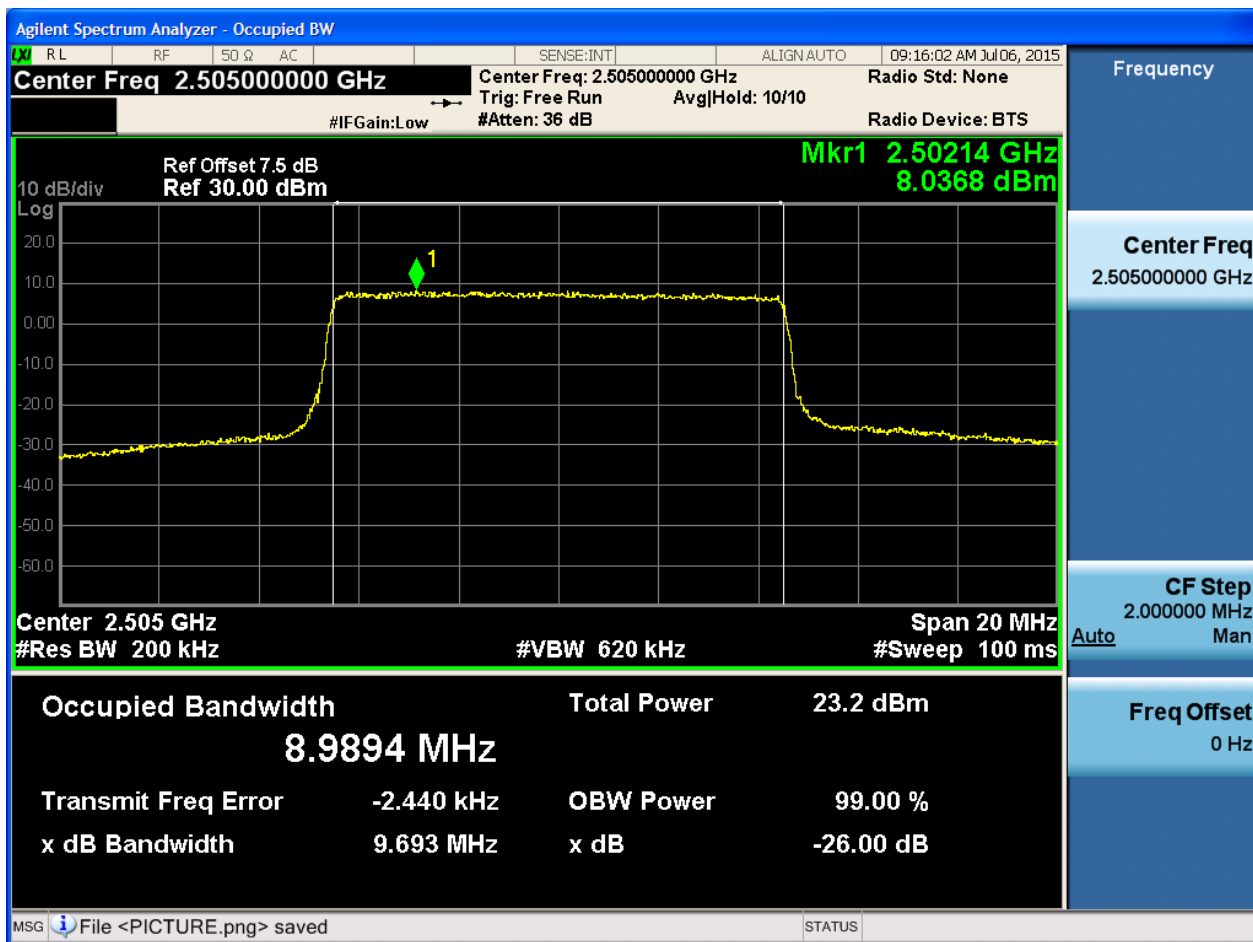




4.1.1.1.2 Test Bandwidth = 10

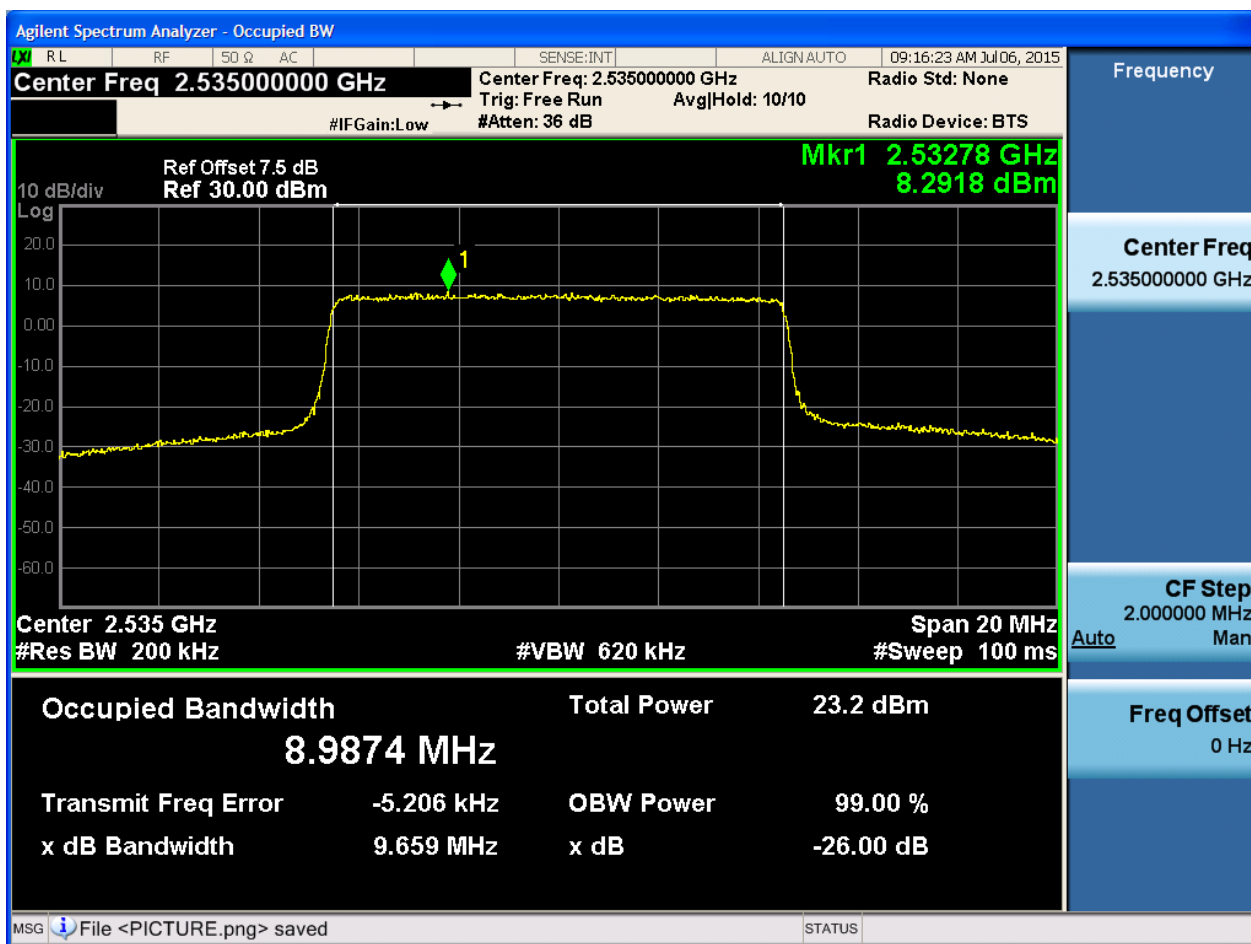
4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0



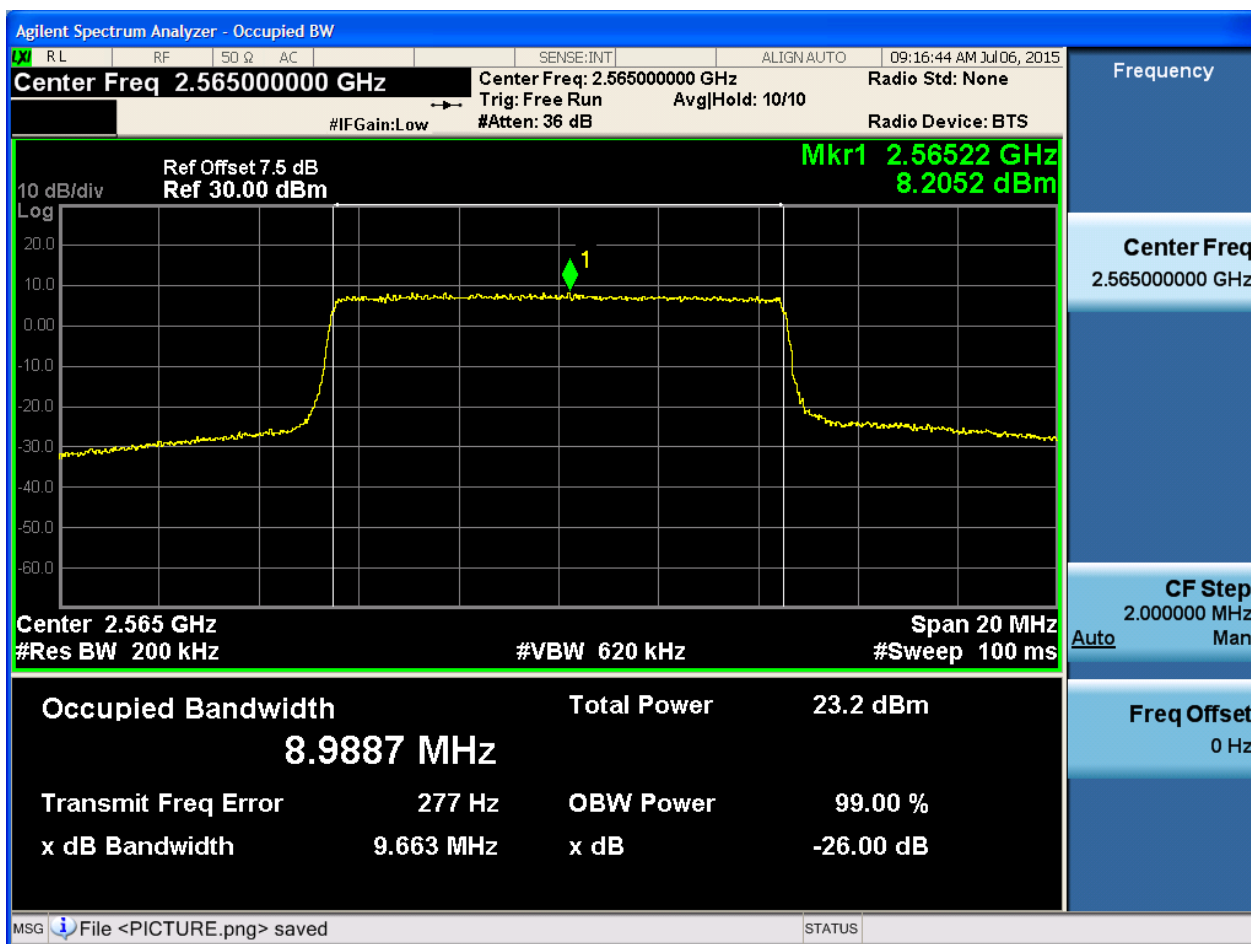
4.1.1.1.2.2 Test Channel = MCH

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

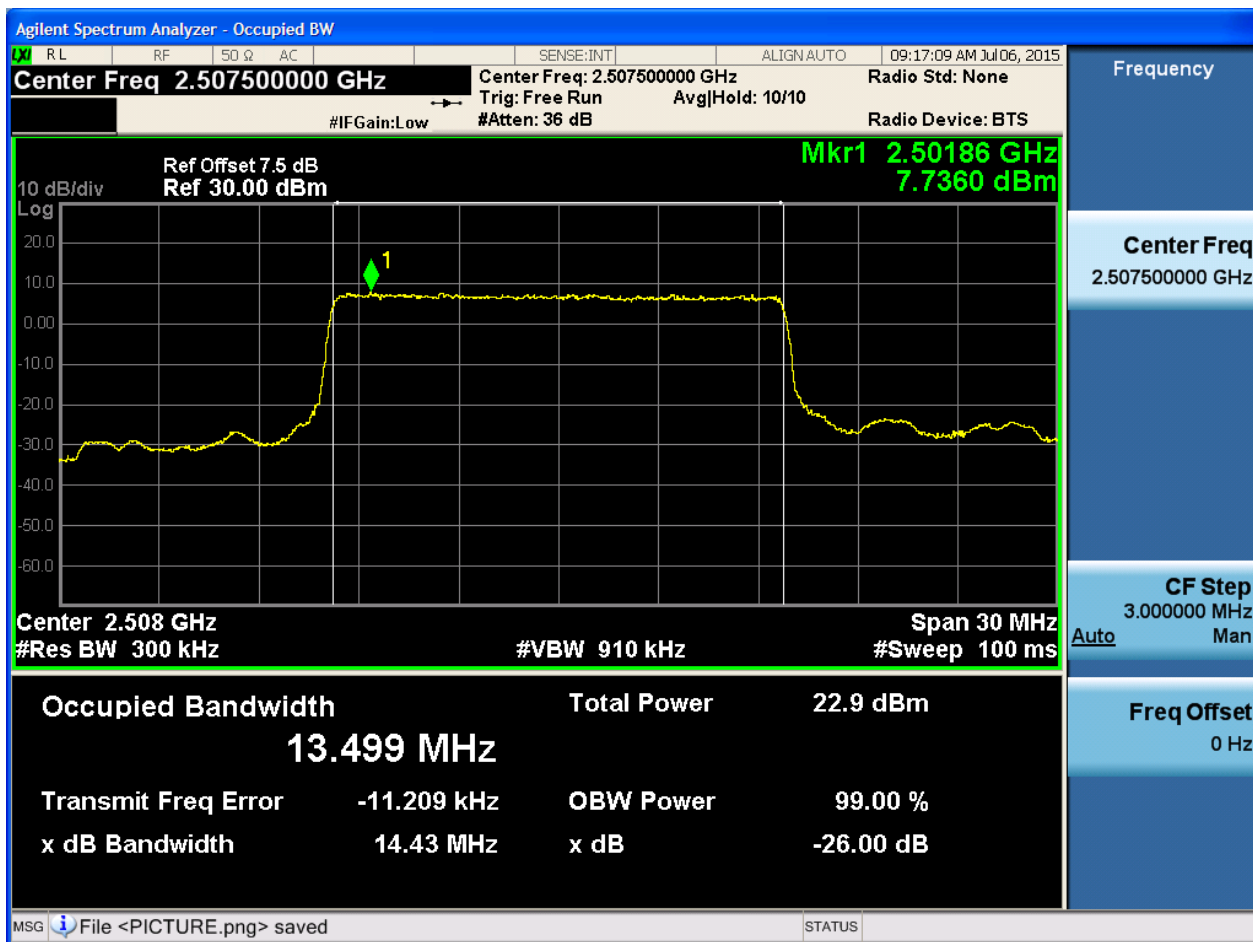




4.1.1.1.3 Test Bandwidth = 15

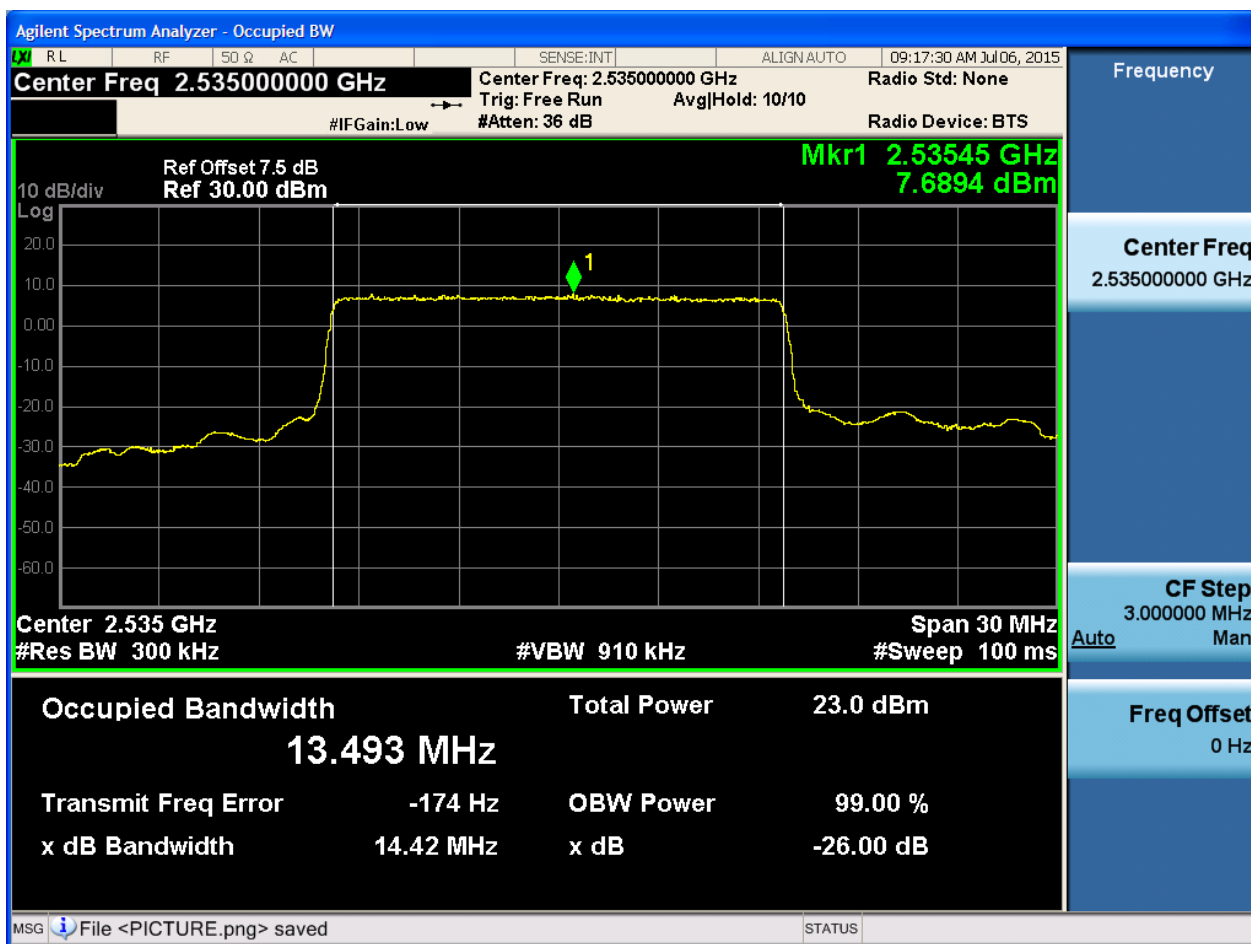
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



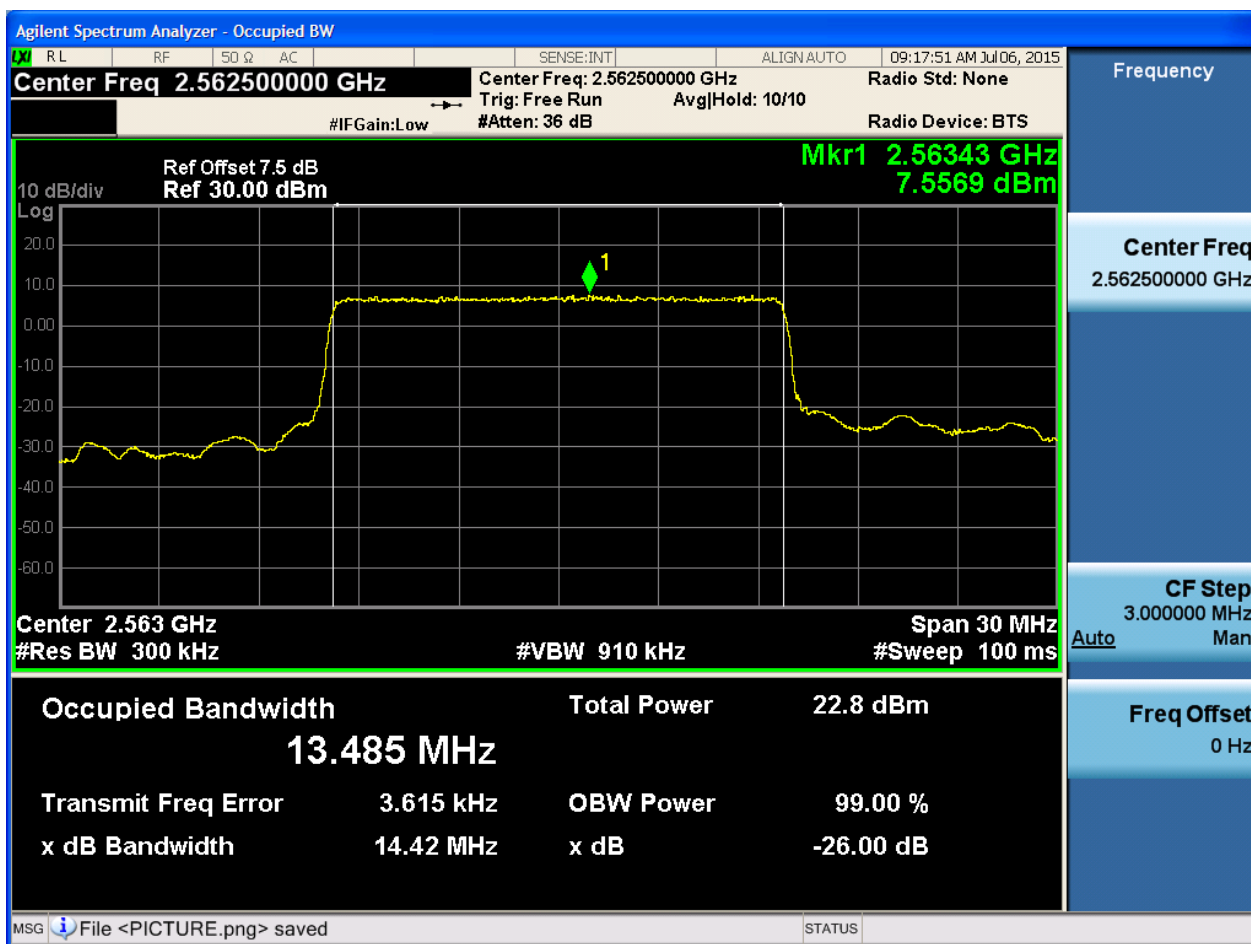
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB75#0



4.1.1.1.3.3 Test Channel = HCH

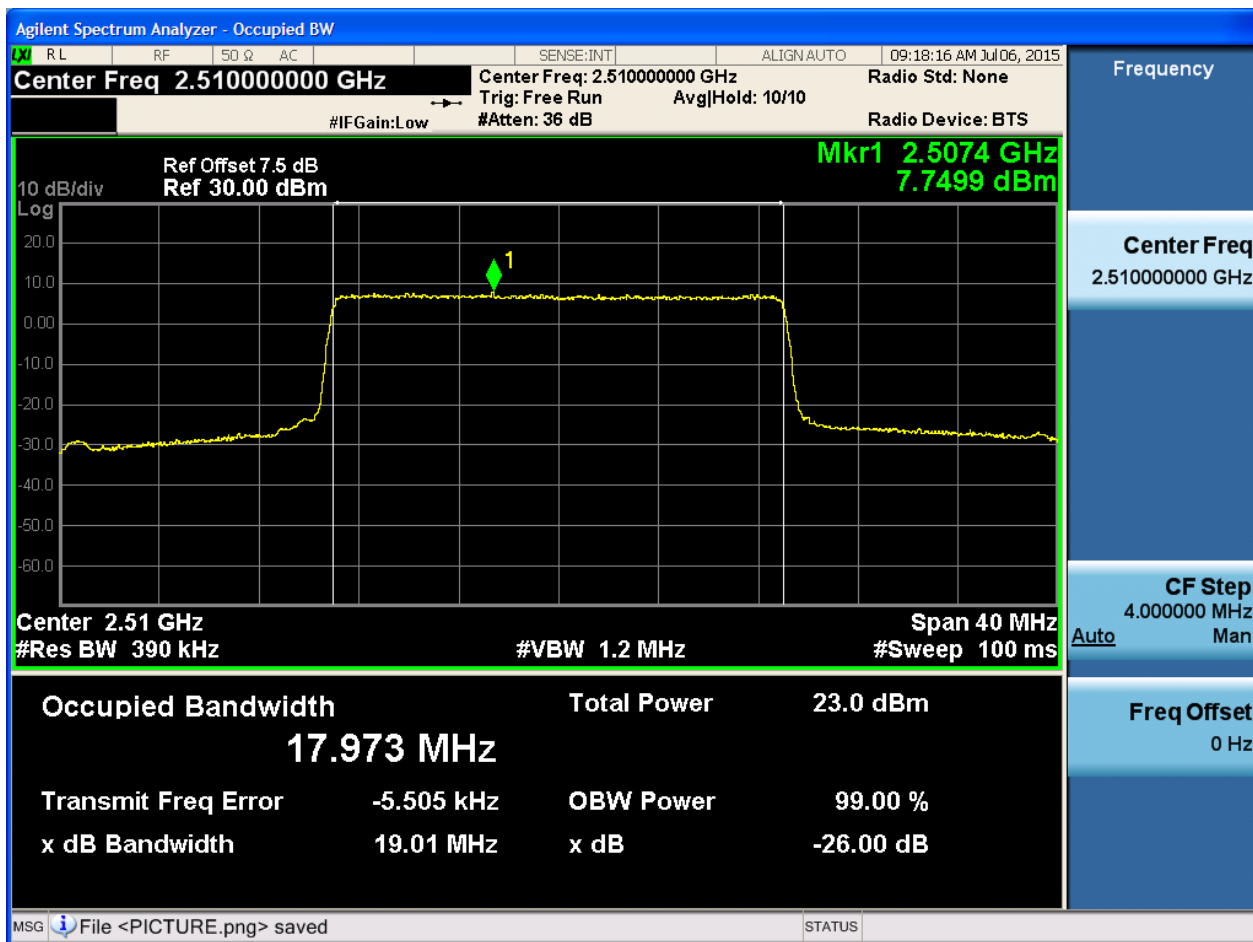
4.1.1.1.3.3.1 Test RB = RB75#0



4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

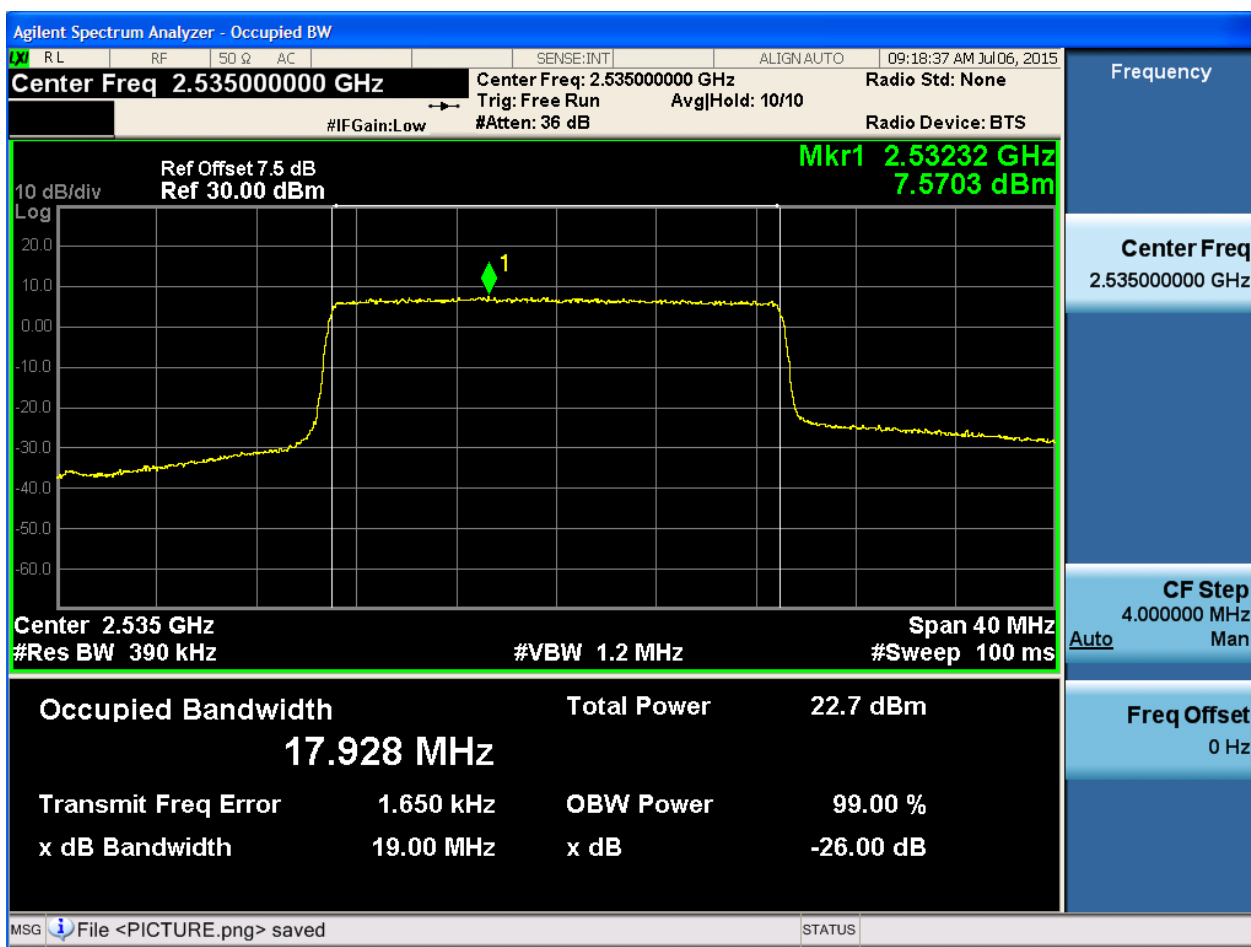
4.1.1.1.4.1.1 Test RB = RB100#0





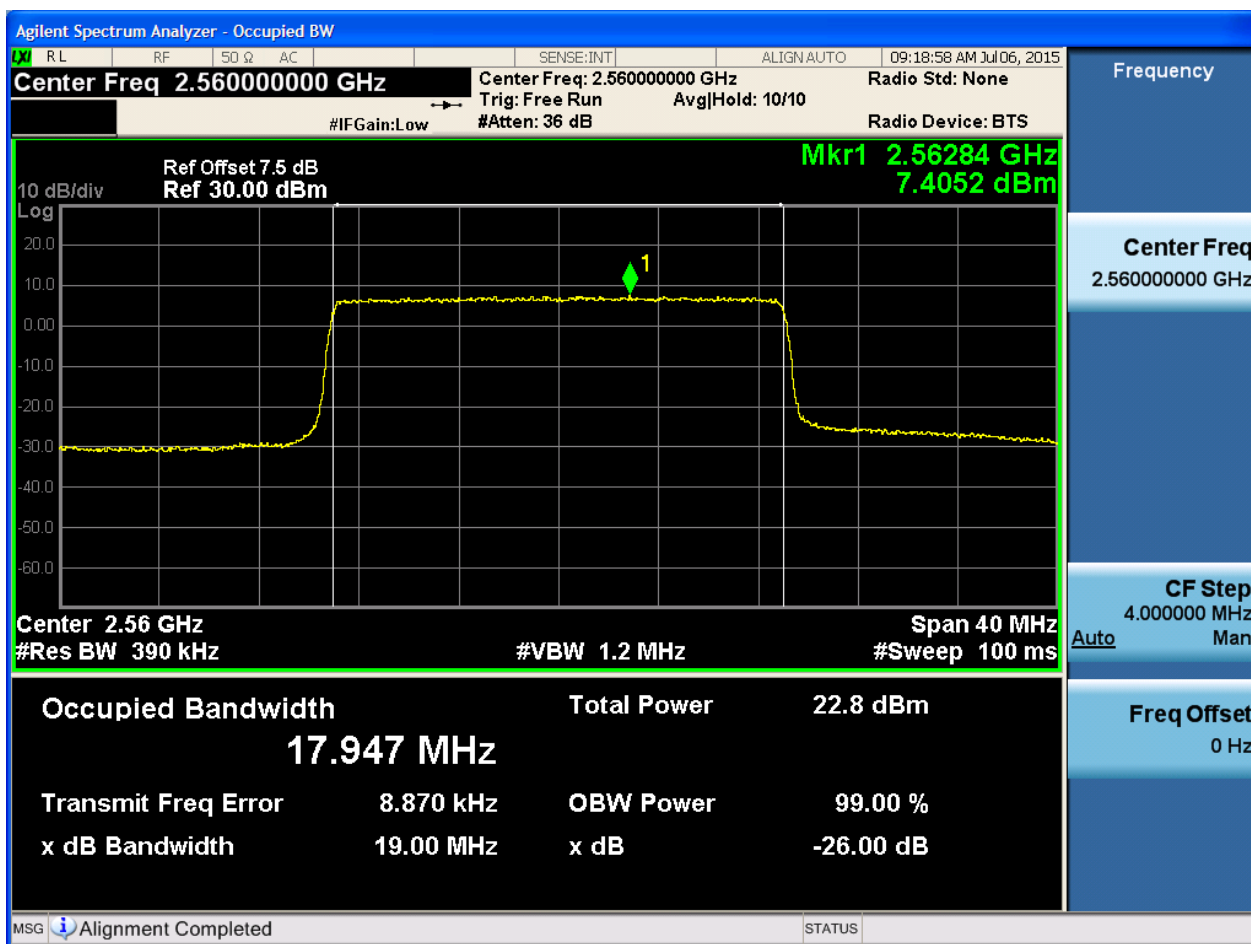
4.1.1.1.4.2 Test Channel = MCH

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



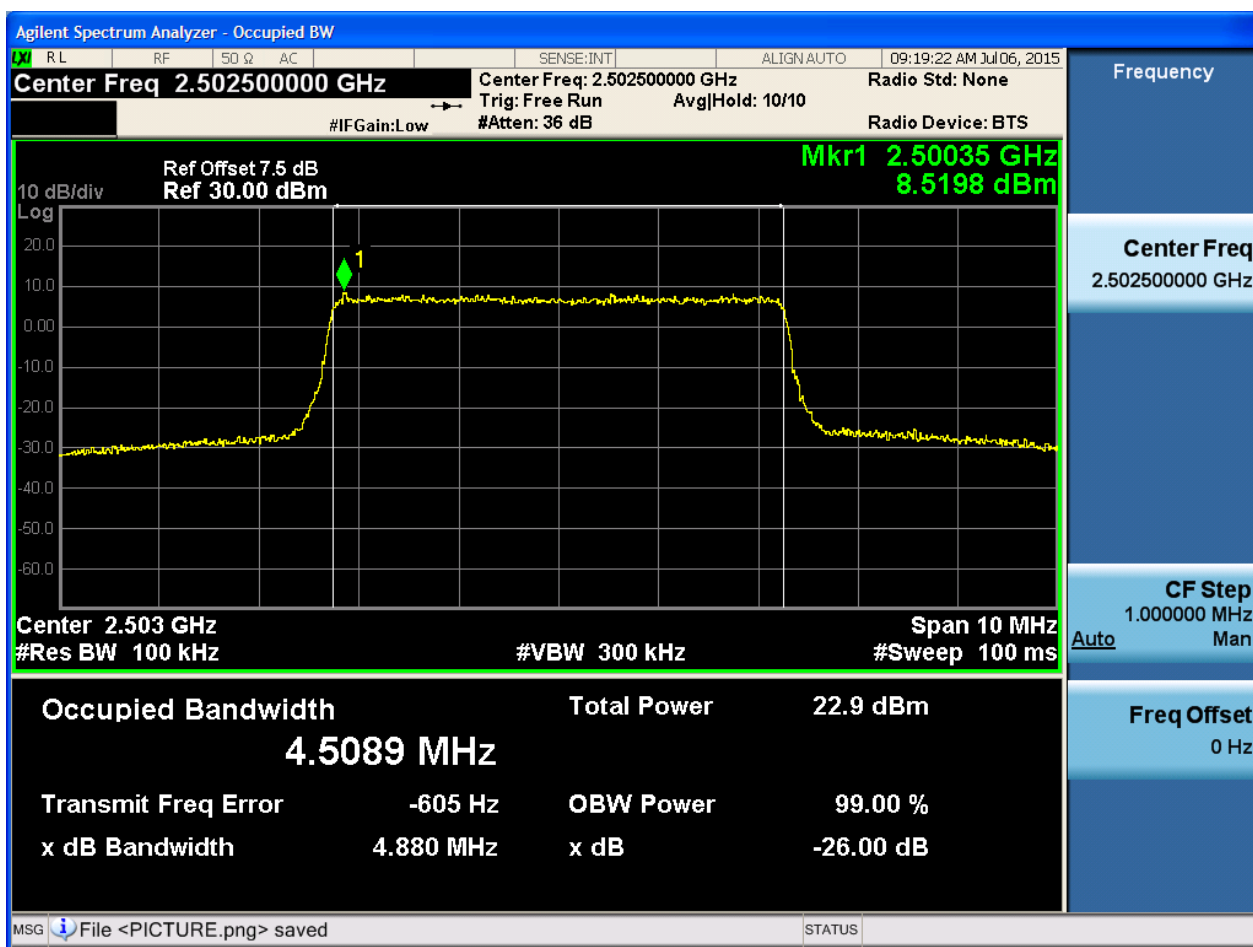


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

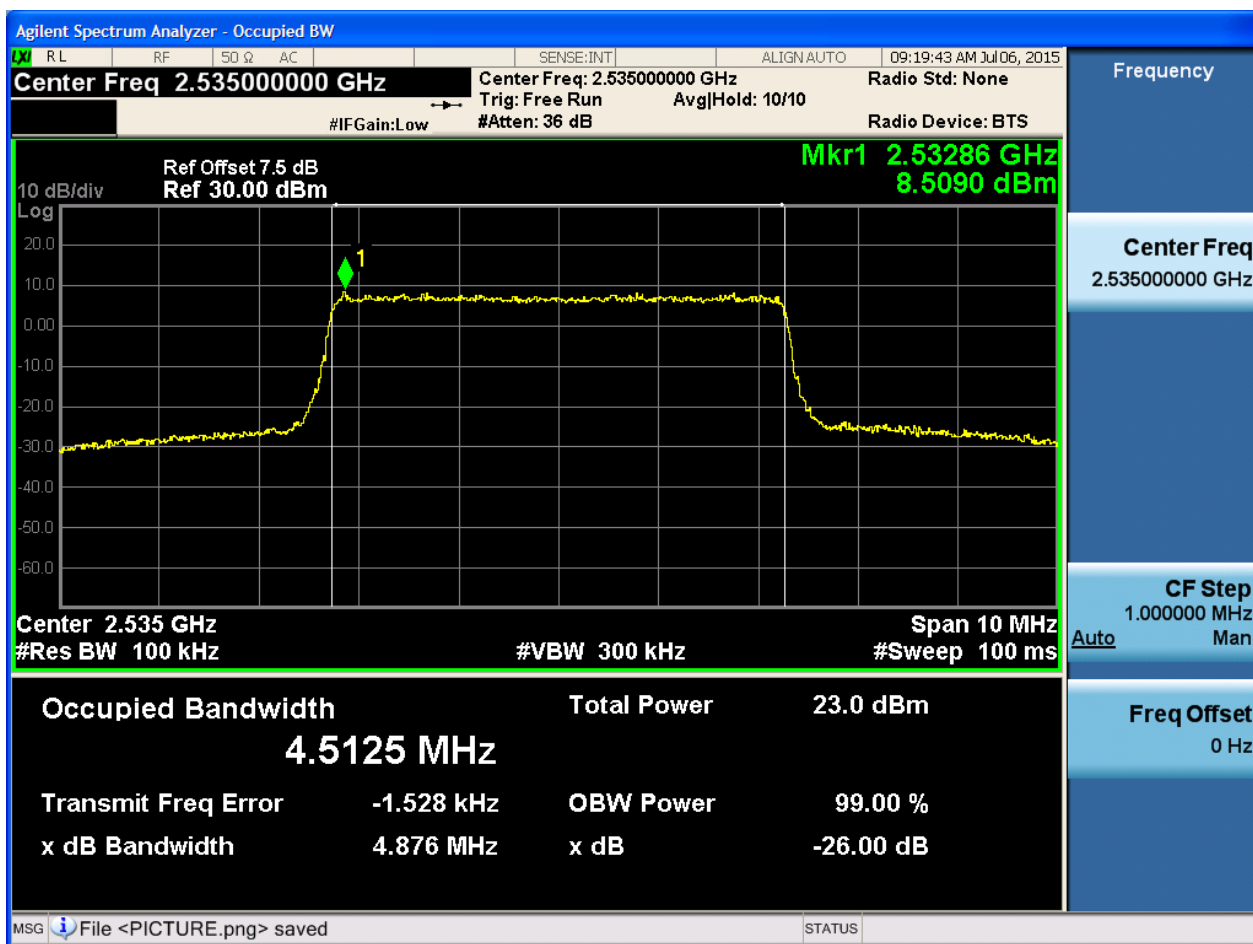
4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0



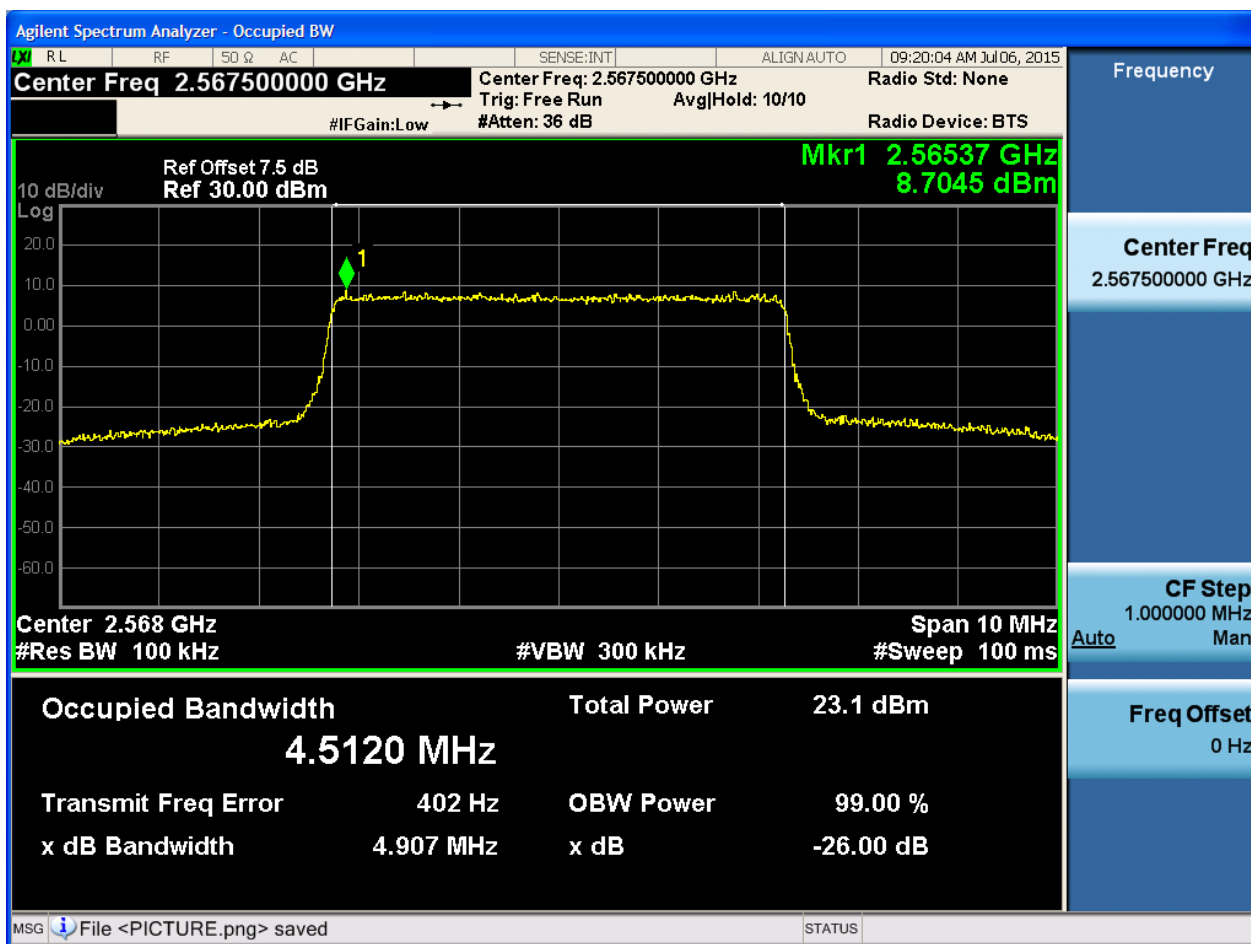
4.1.1.2.1.2 Test Channel = MCH

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

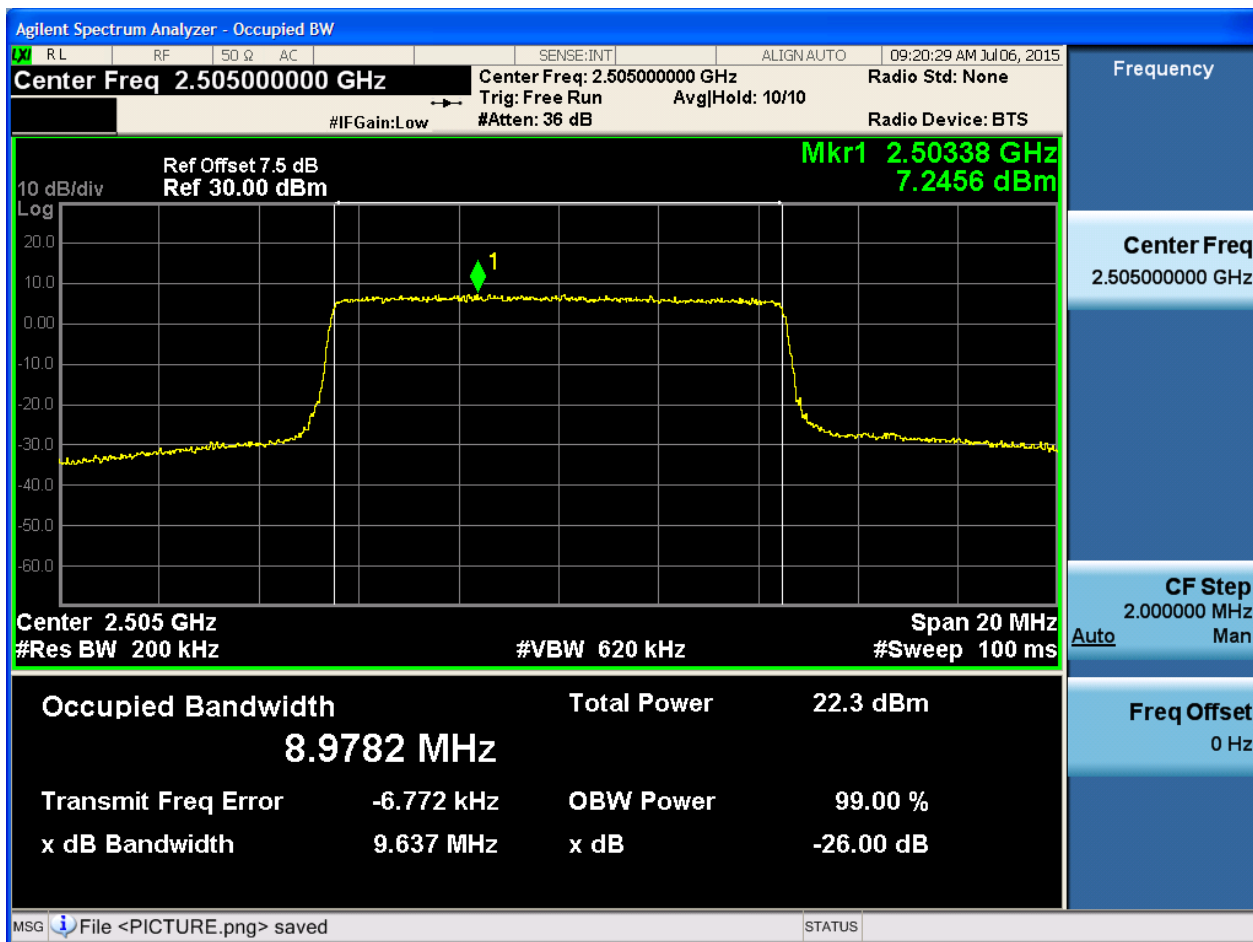




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

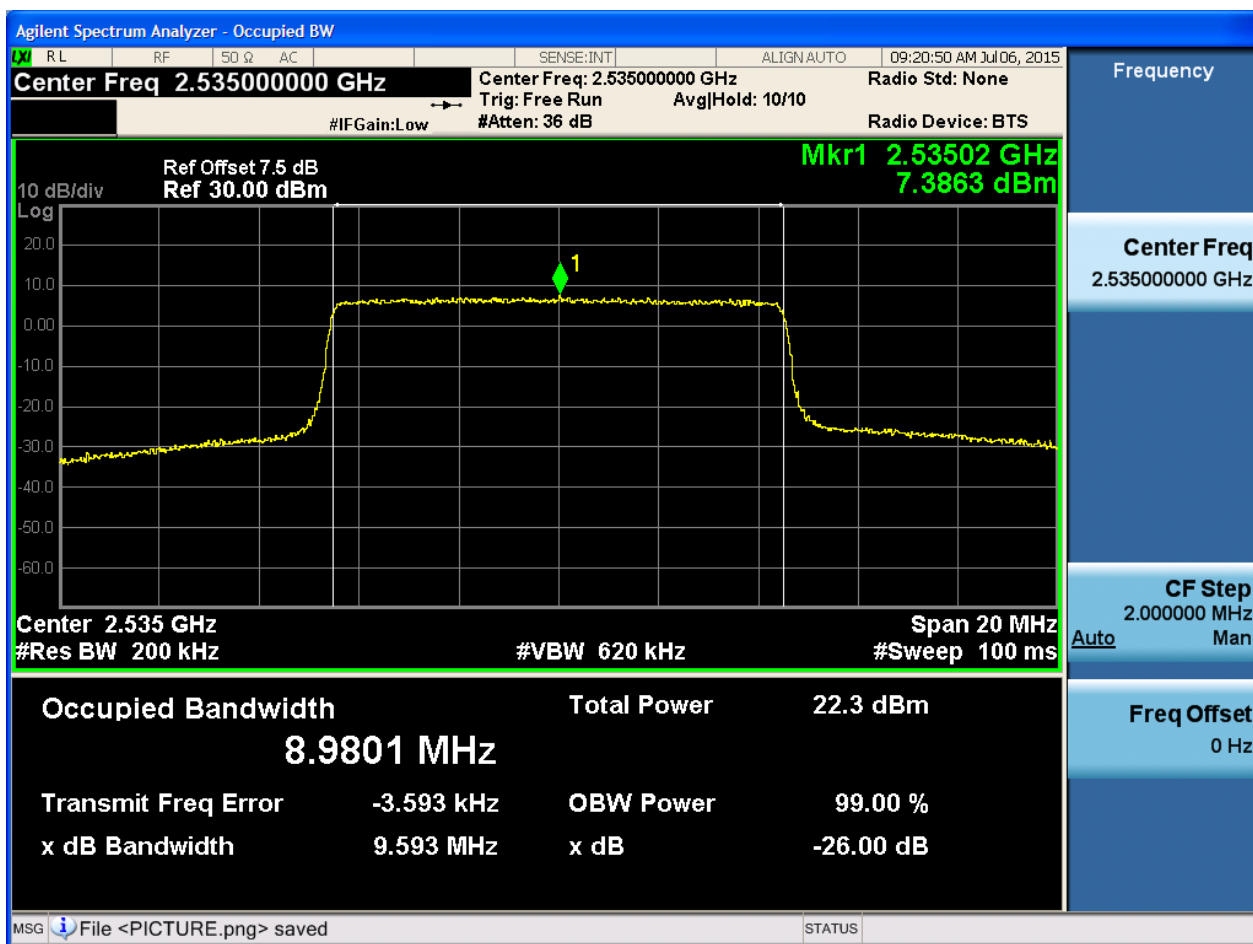
4.1.1.2.2.1.1 Test RB = RB50#0





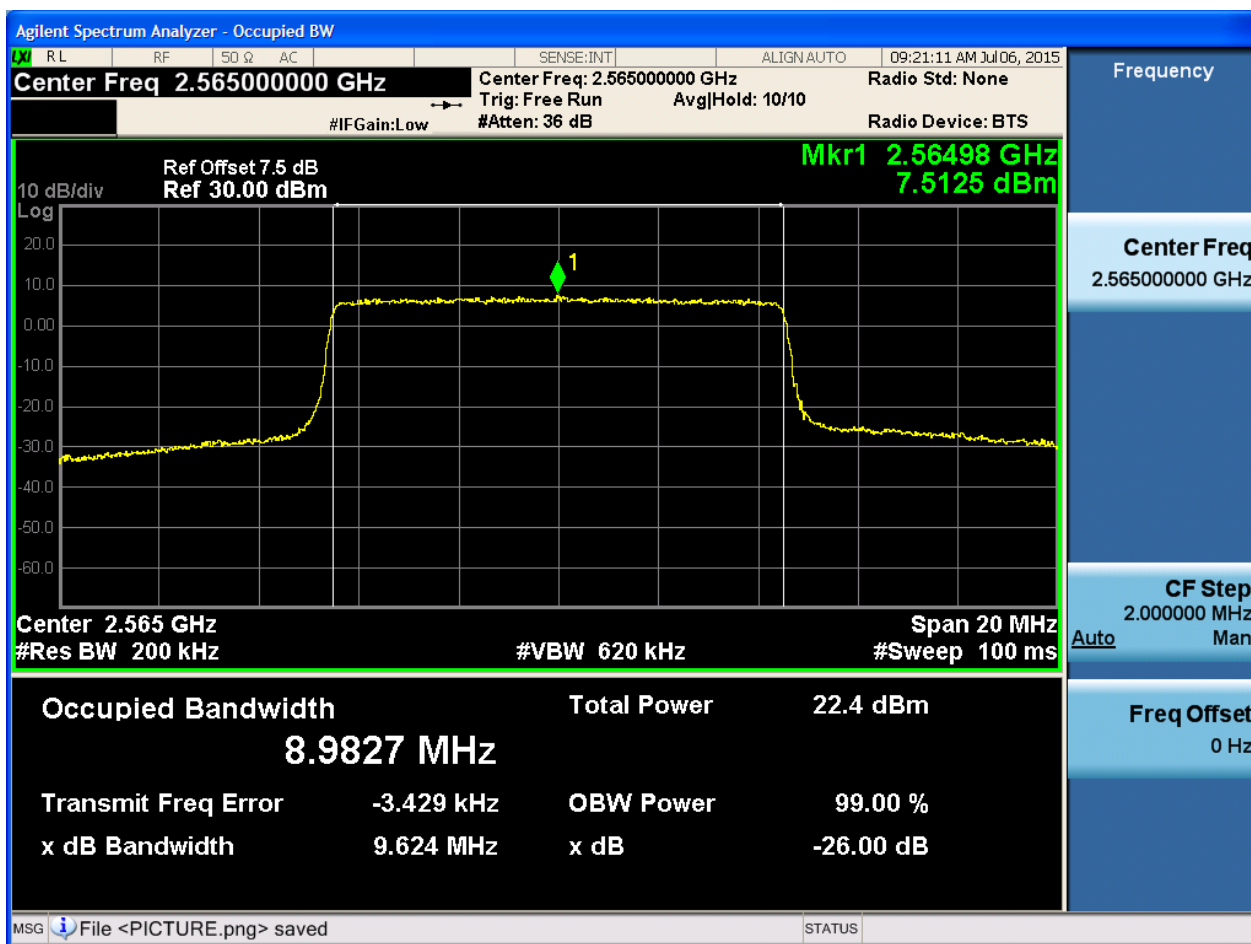
4.1.1.2.2.2 Test Channel = MCH

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

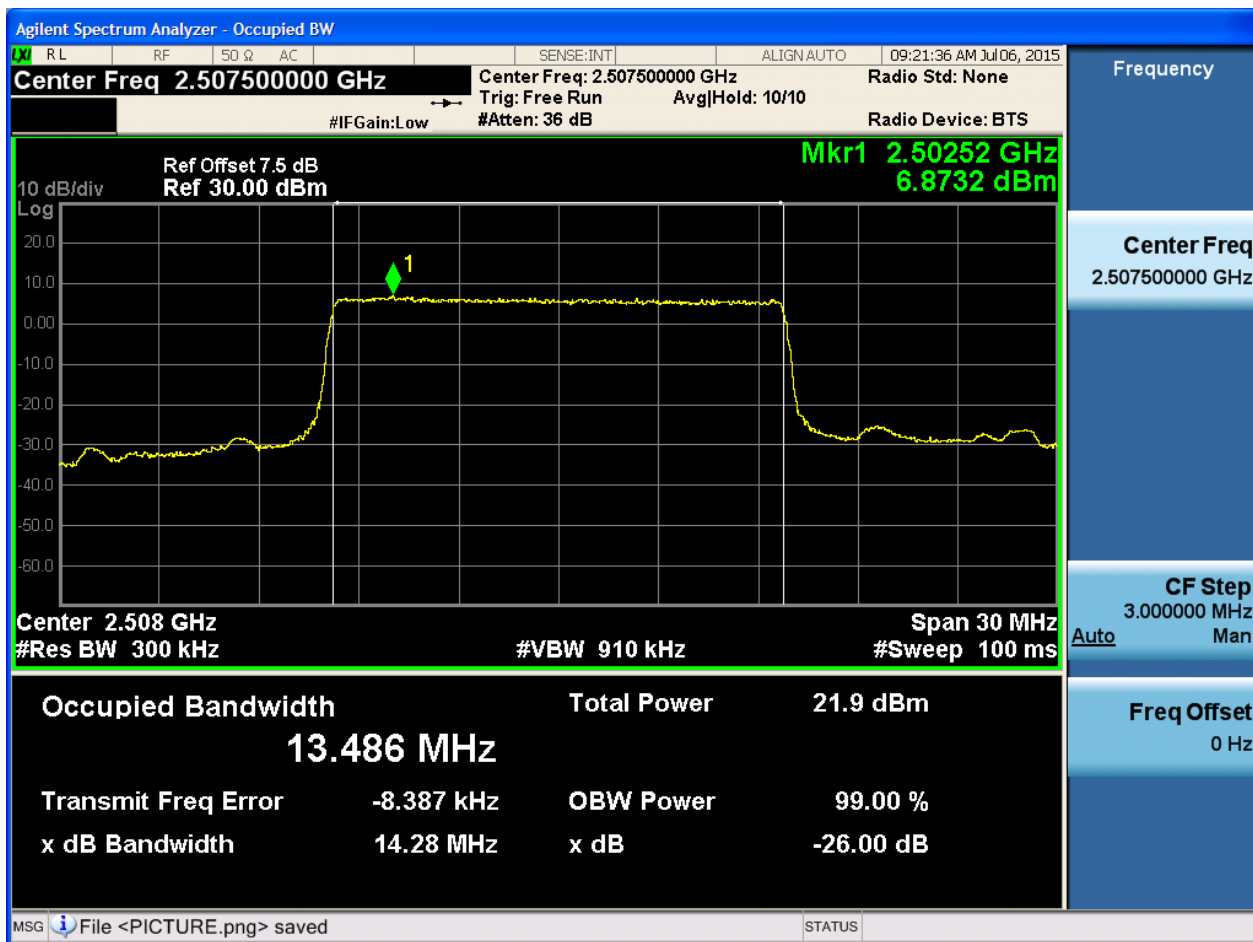




4.1.1.2.3 Test Bandwidth = 15

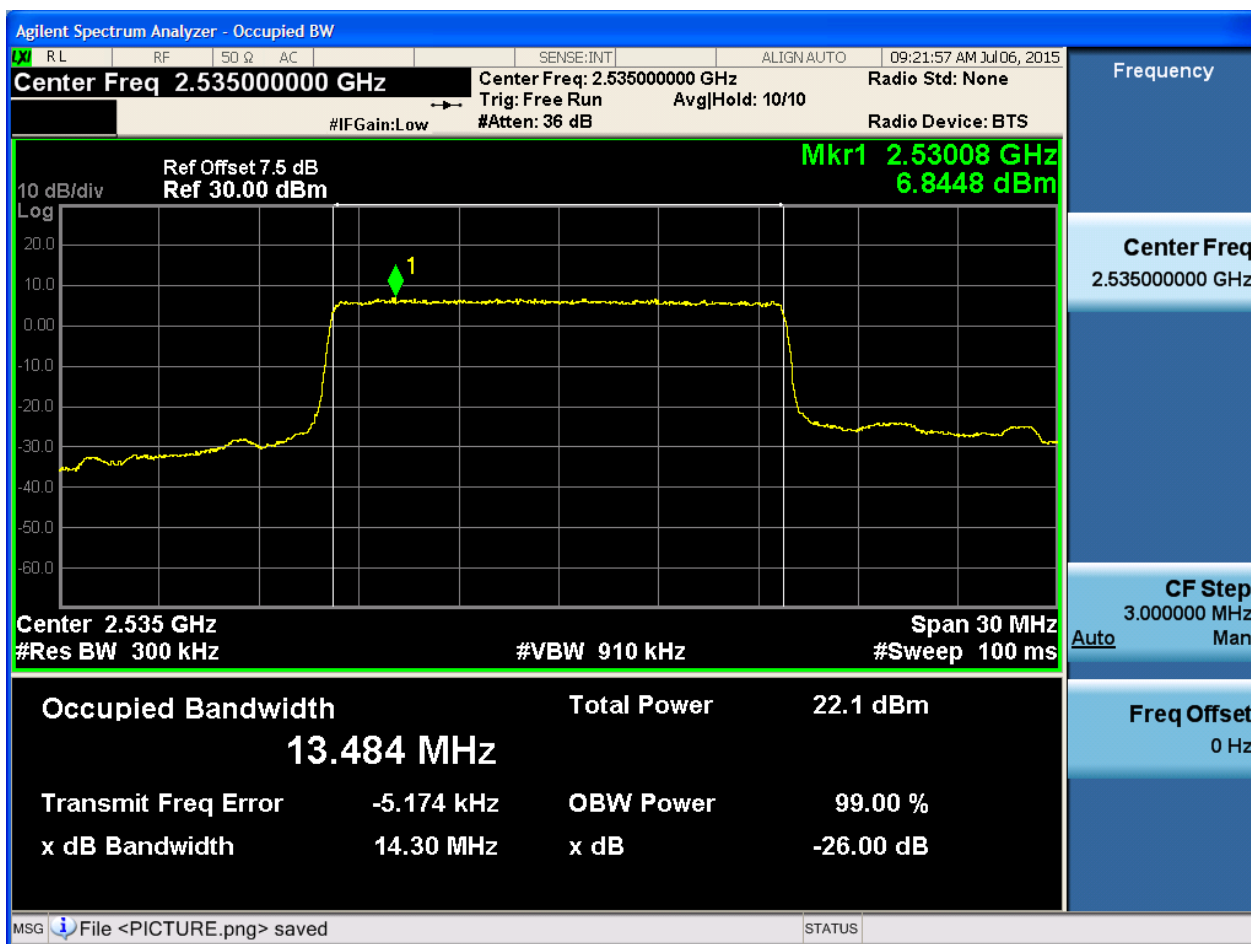
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



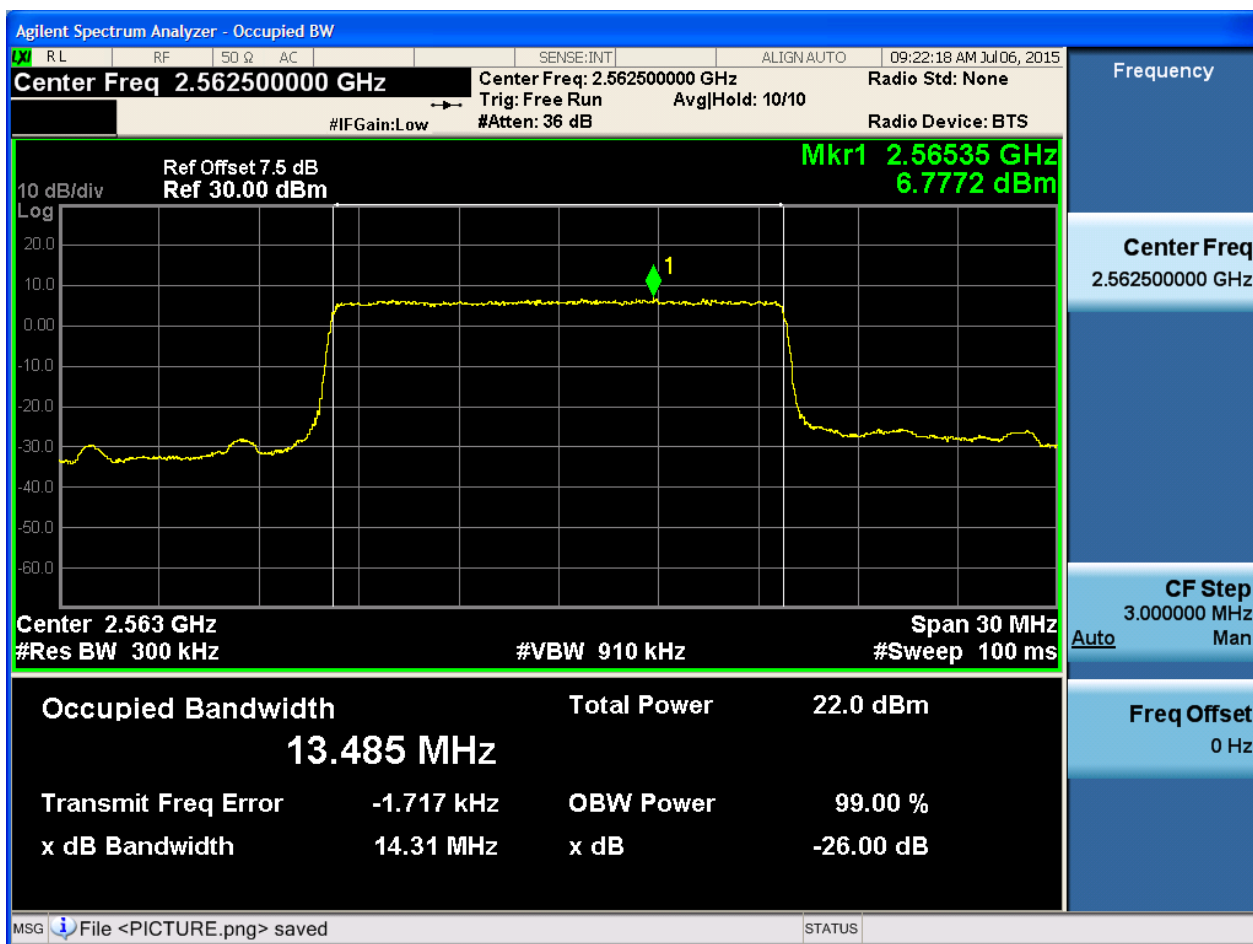
4.1.1.2.3.2 Test Channel = MCH

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

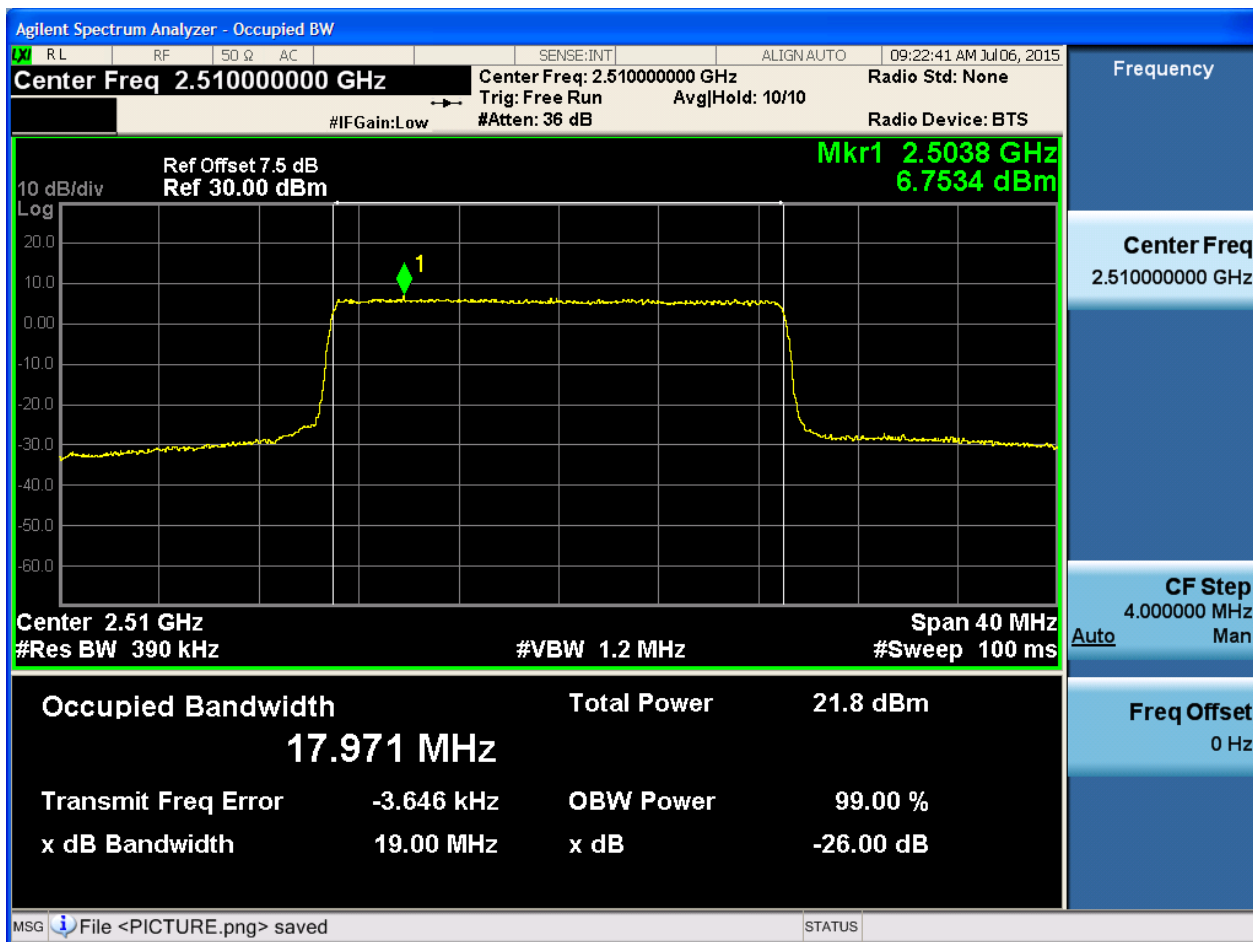




4.1.1.2.4 Test Bandwidth = 20

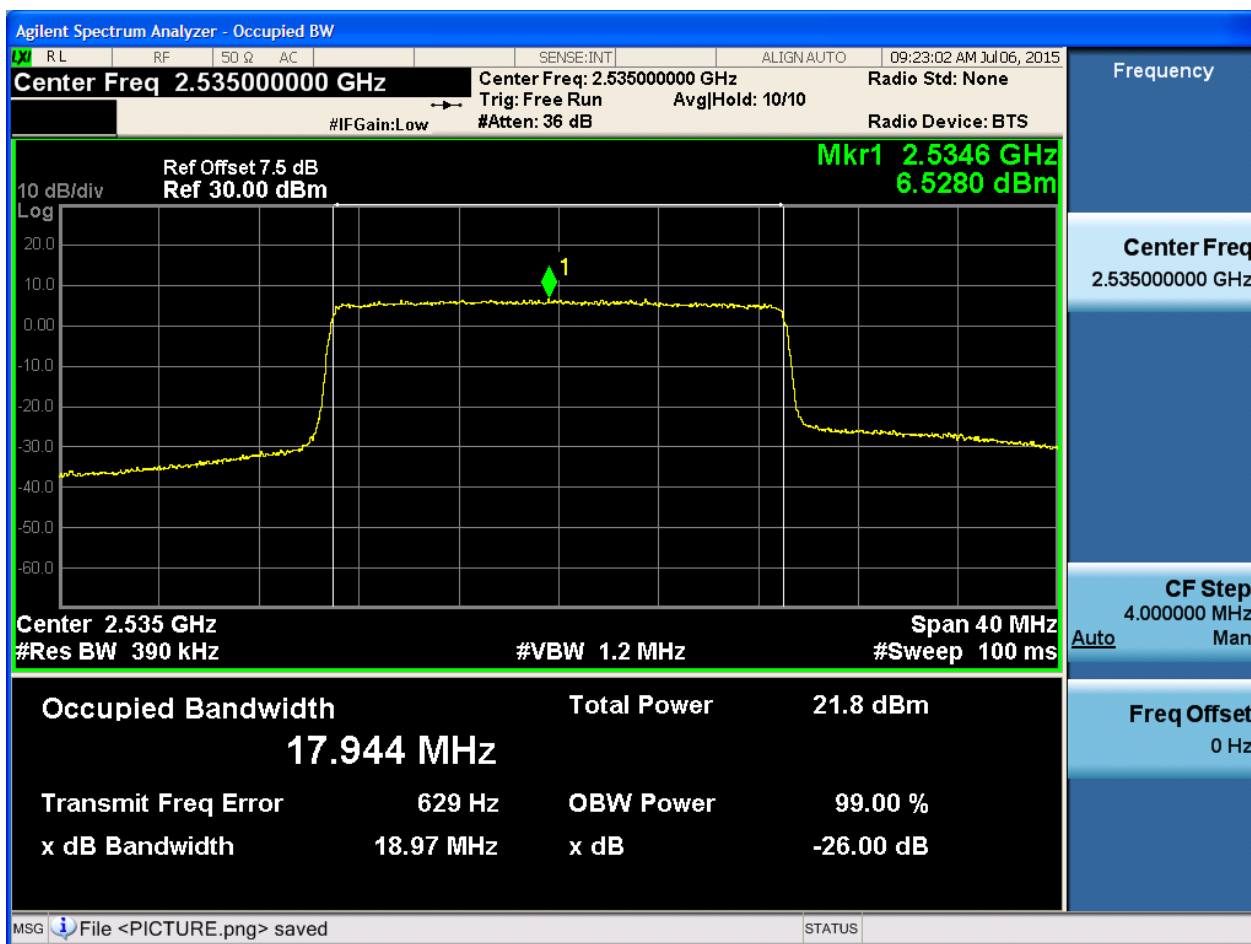
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



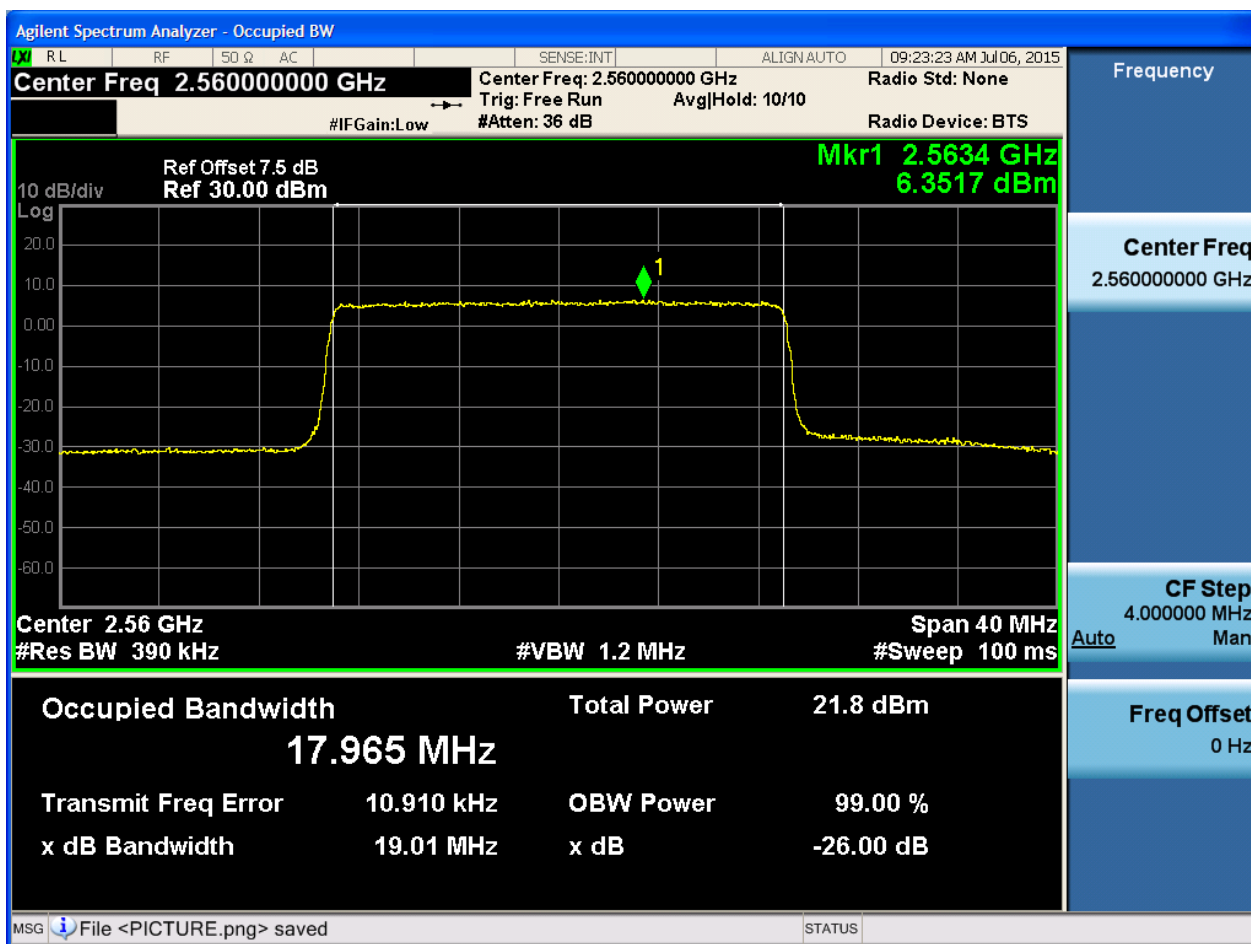
4.1.1.2.4.2 Test Channel = MCH

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

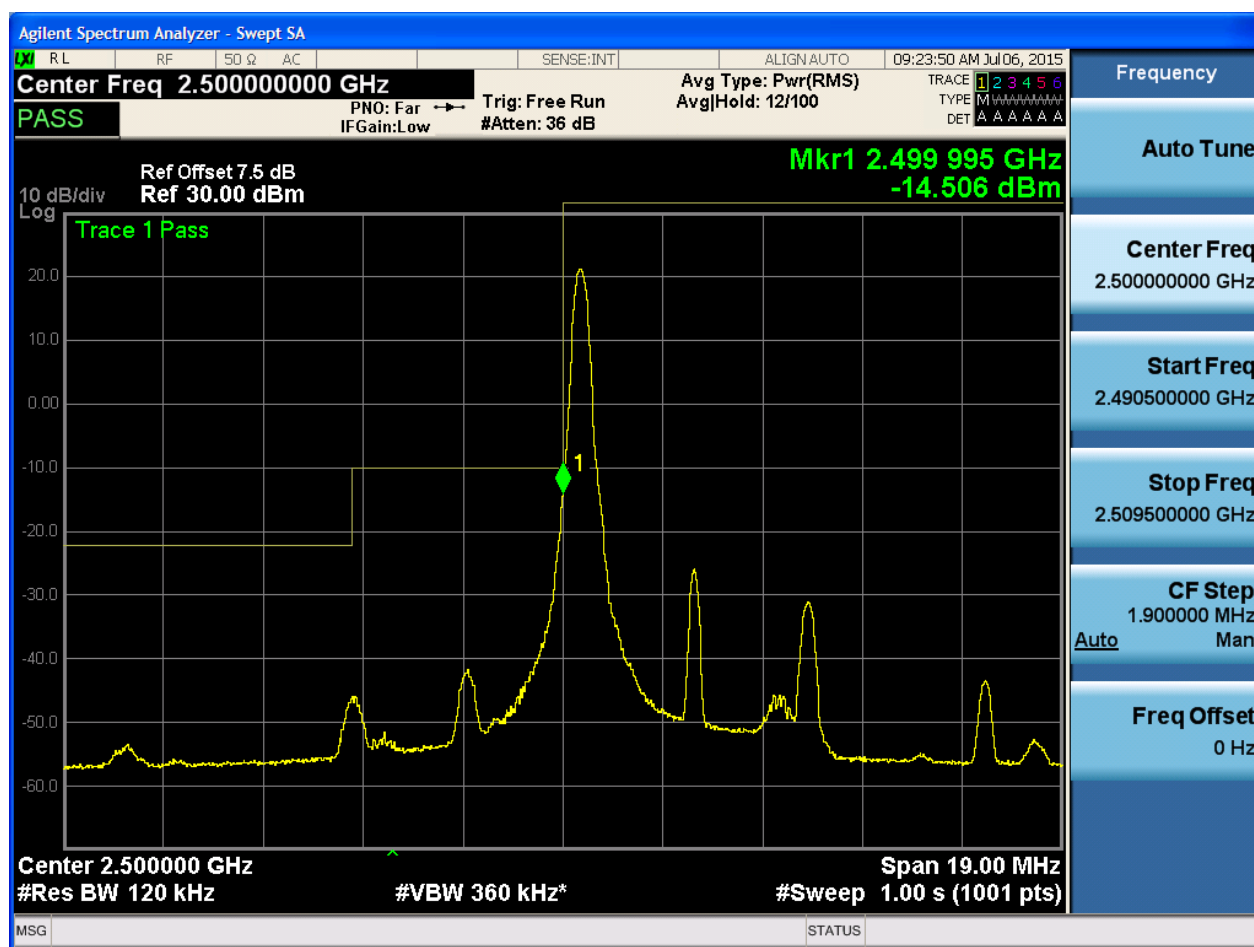
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

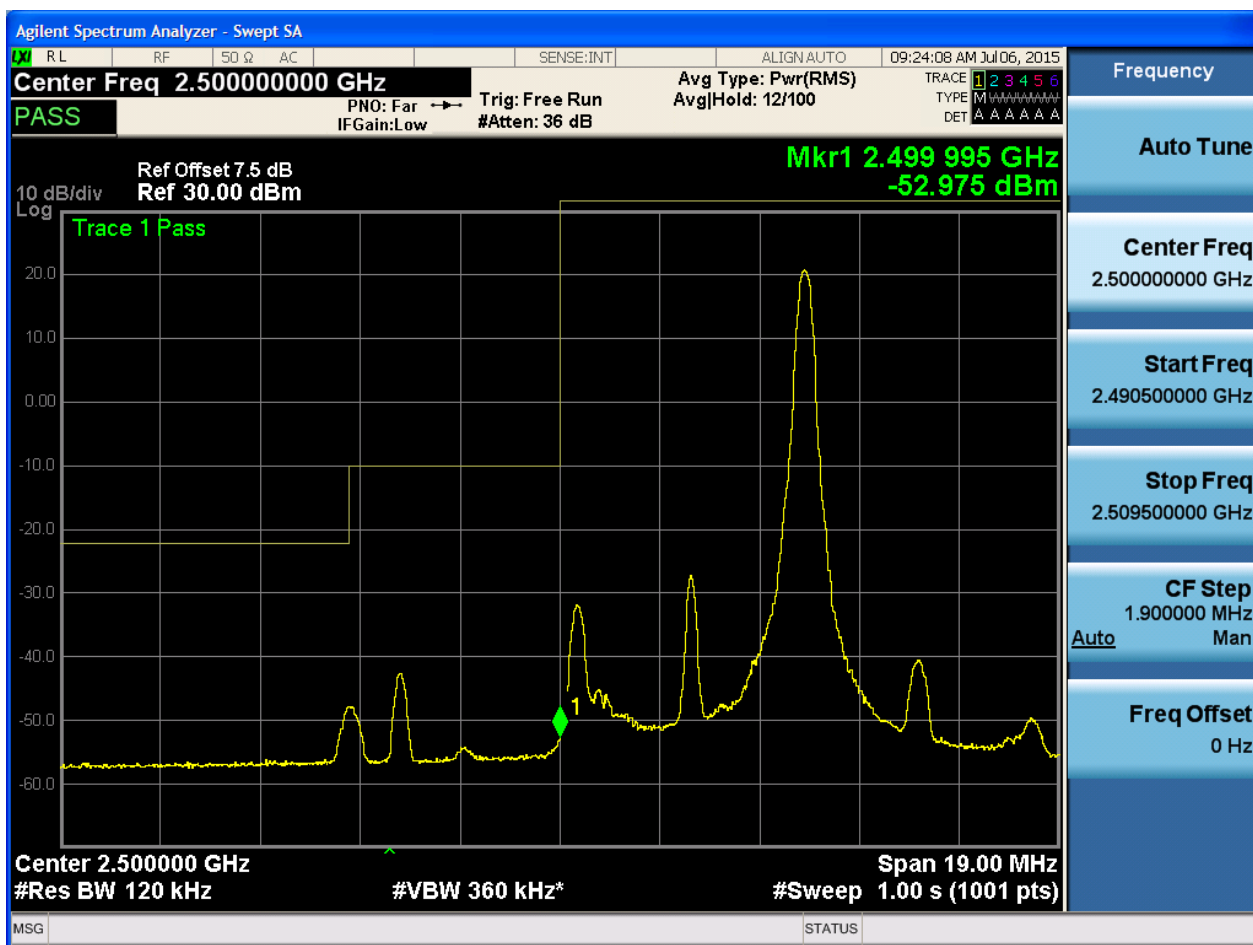
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0





5.1.1.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-27.811 dBm

Trace 1 Pass

Center 2.50000 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

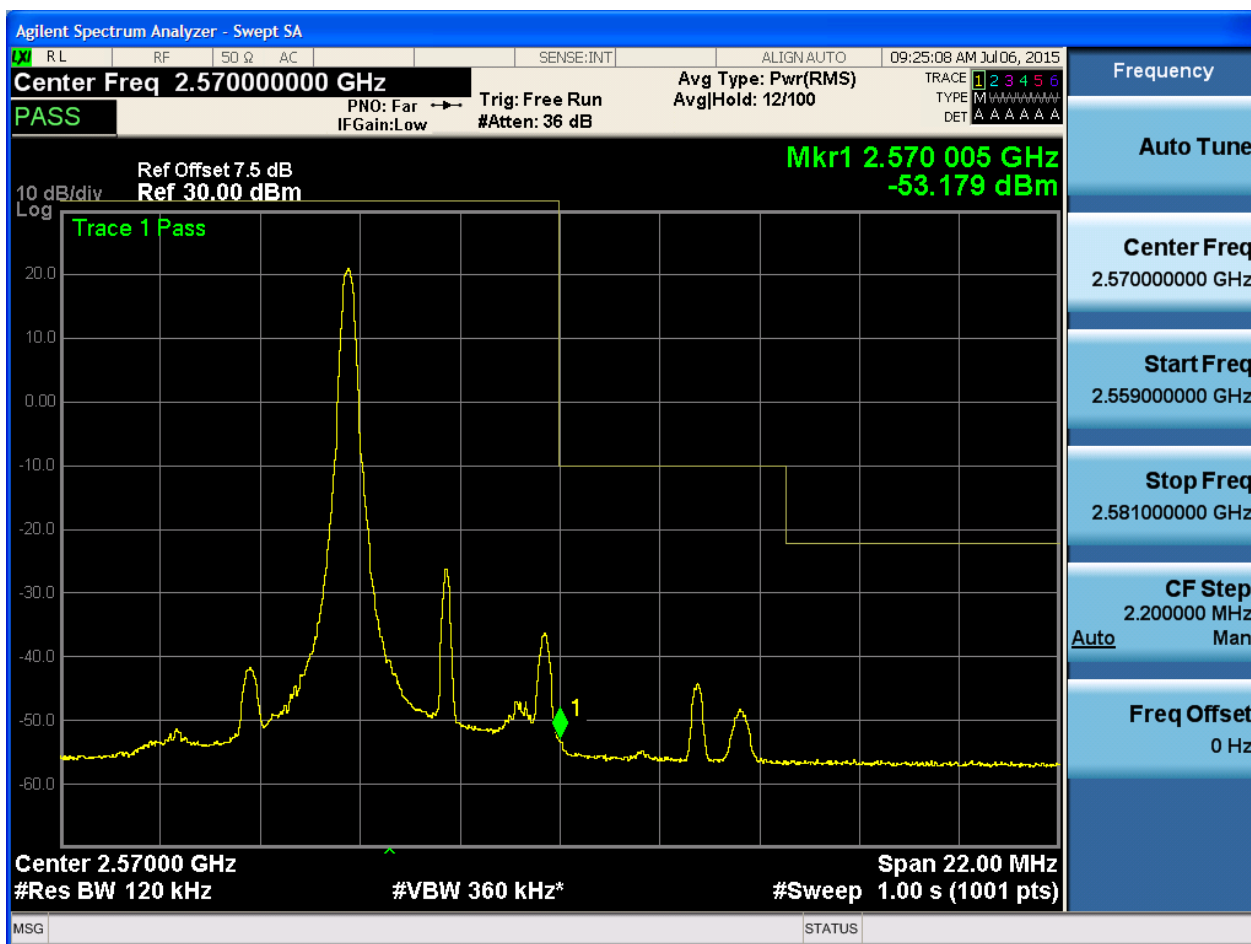


5.1.1.1.1.4 Test RB = RB25#0



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.570 005 GHz
-13.842 dBm

Center 2.57000 GHz
#Res BW 120 kHz
#VBW 360 kHz*

Span 22.00 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.559000000 GHz

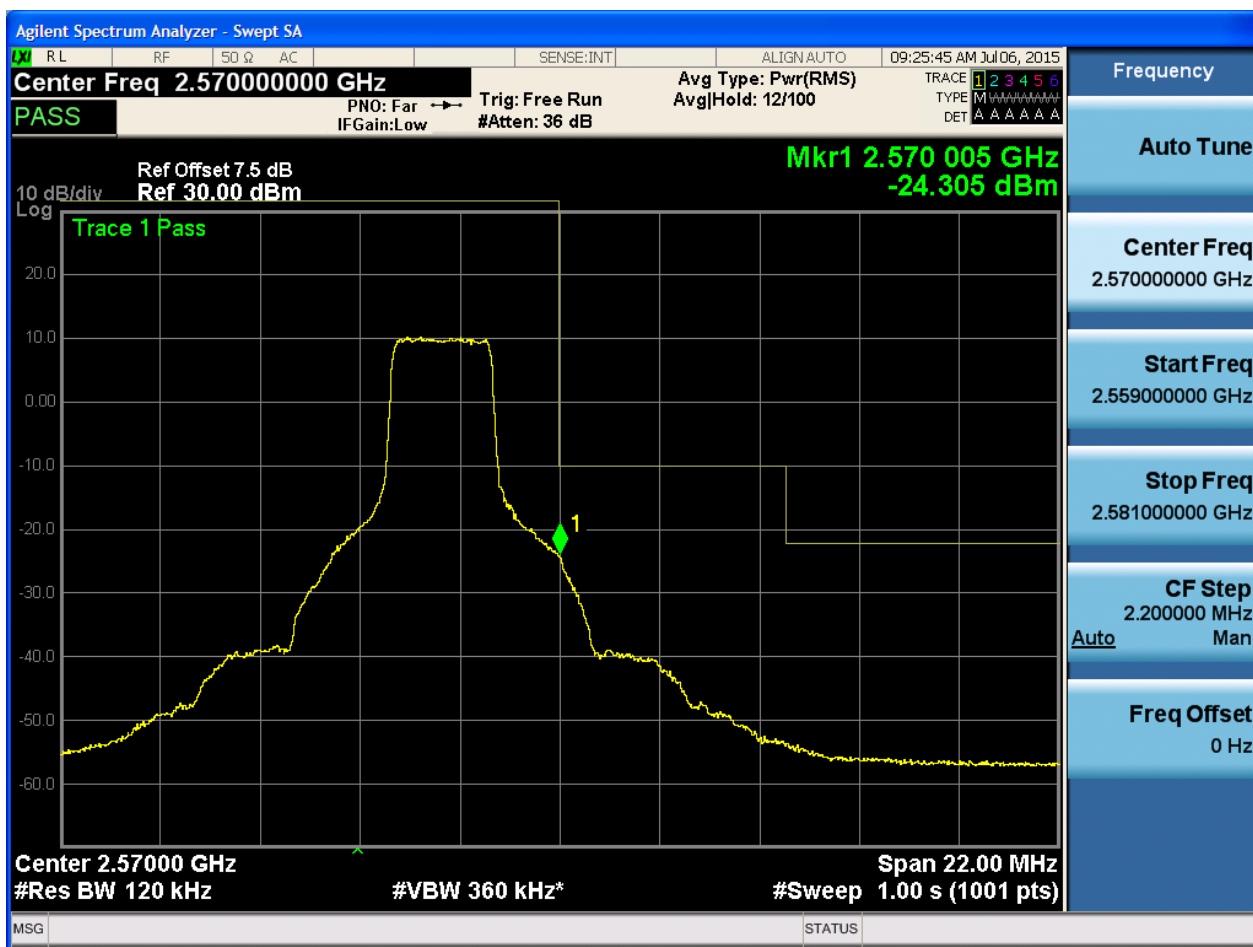
Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Man

Freq Offset
0 Hz



5.1.1.1.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 09:26:03 AM Jul 06, 2015

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

Ref Offset 7.5 dB Mkr1 2.570 005 GHz
Ref 30.00 dBm -19.572 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

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.559000000 GHz

Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Man

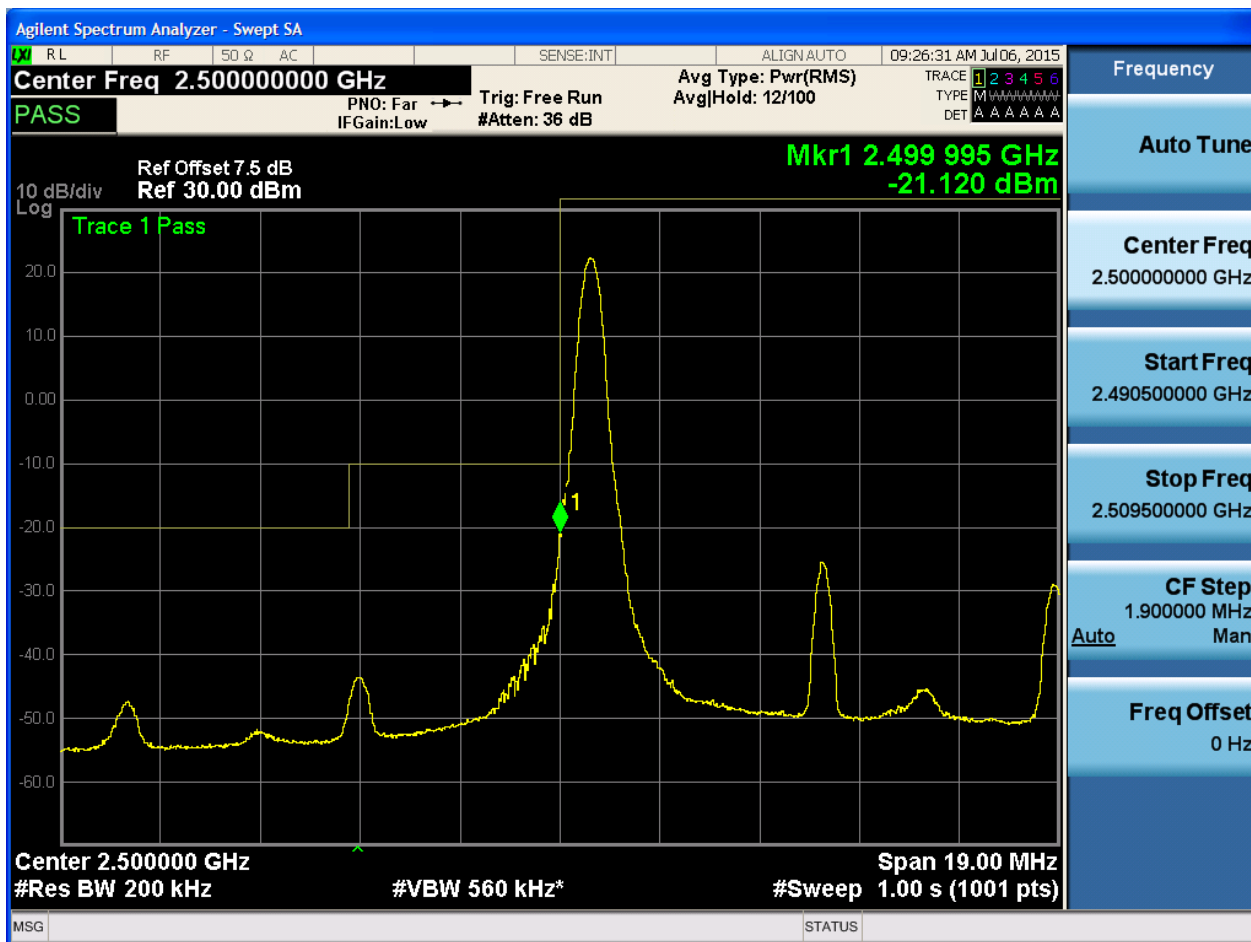
Auto

Freq Offset
0 Hz

5.1.1.1.2 Test Bandwidth = 10

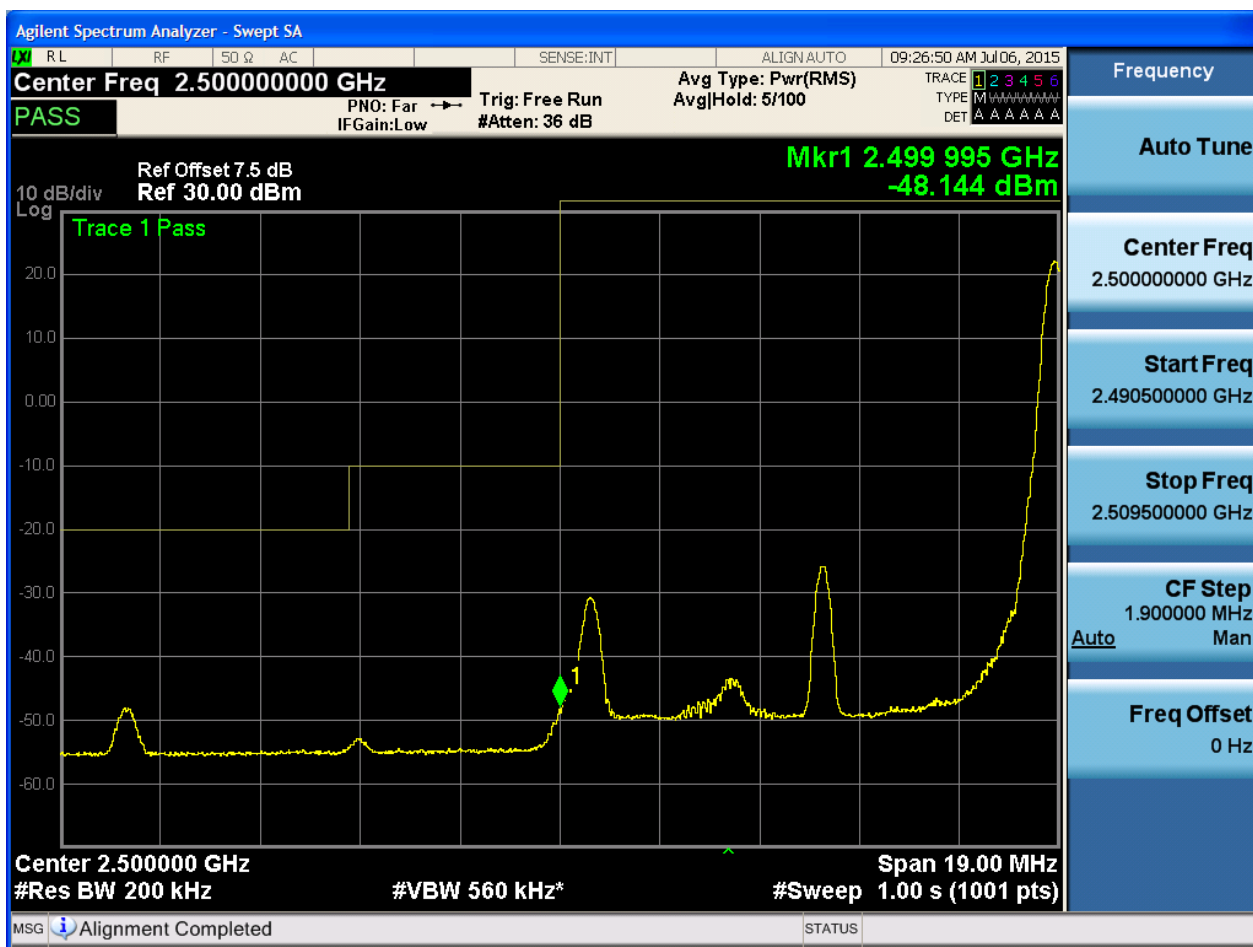
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49



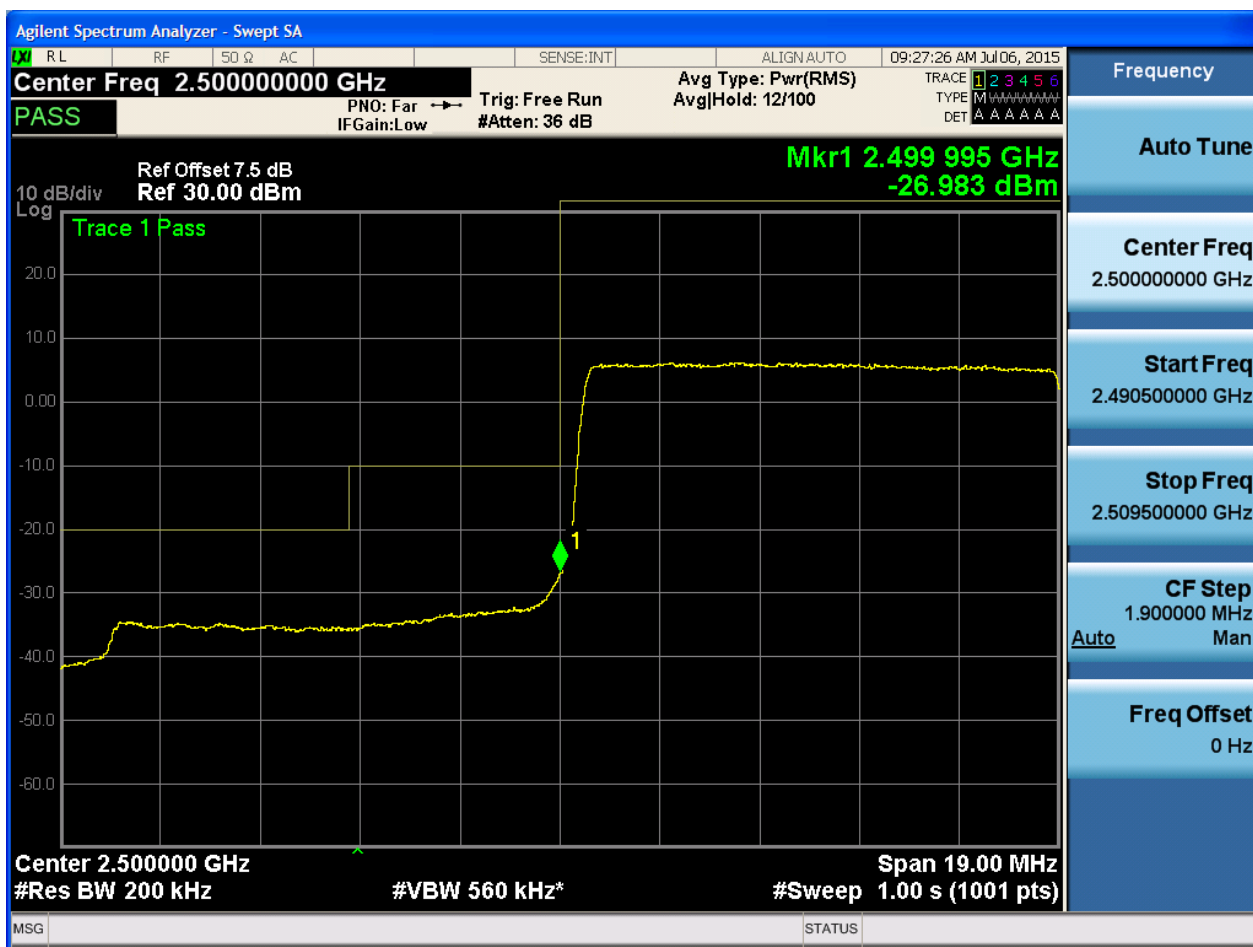


5.1.1.1.2.1.3 Test RB = RB25#13



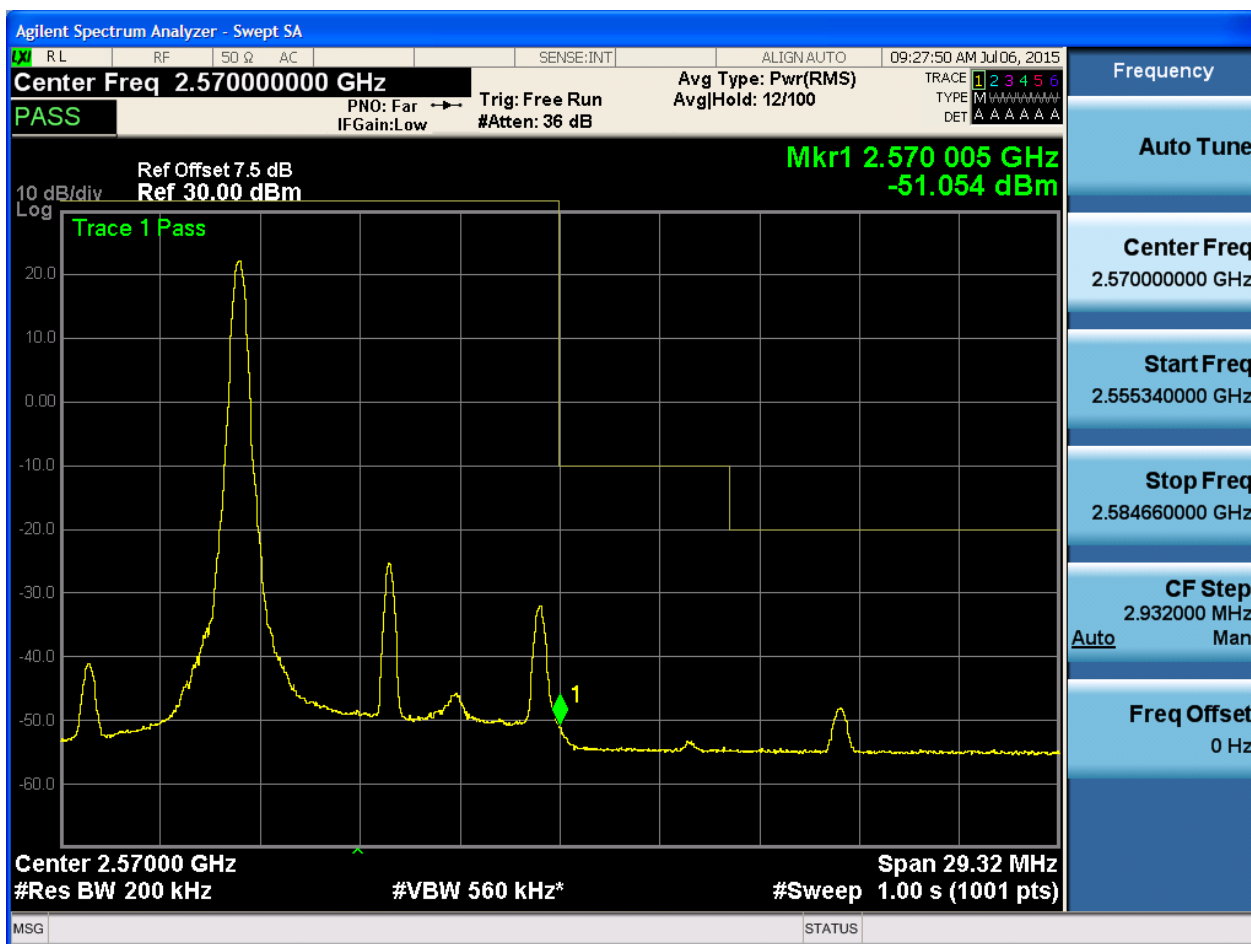


5.1.1.1.2.1.4 Test RB = RB50#0



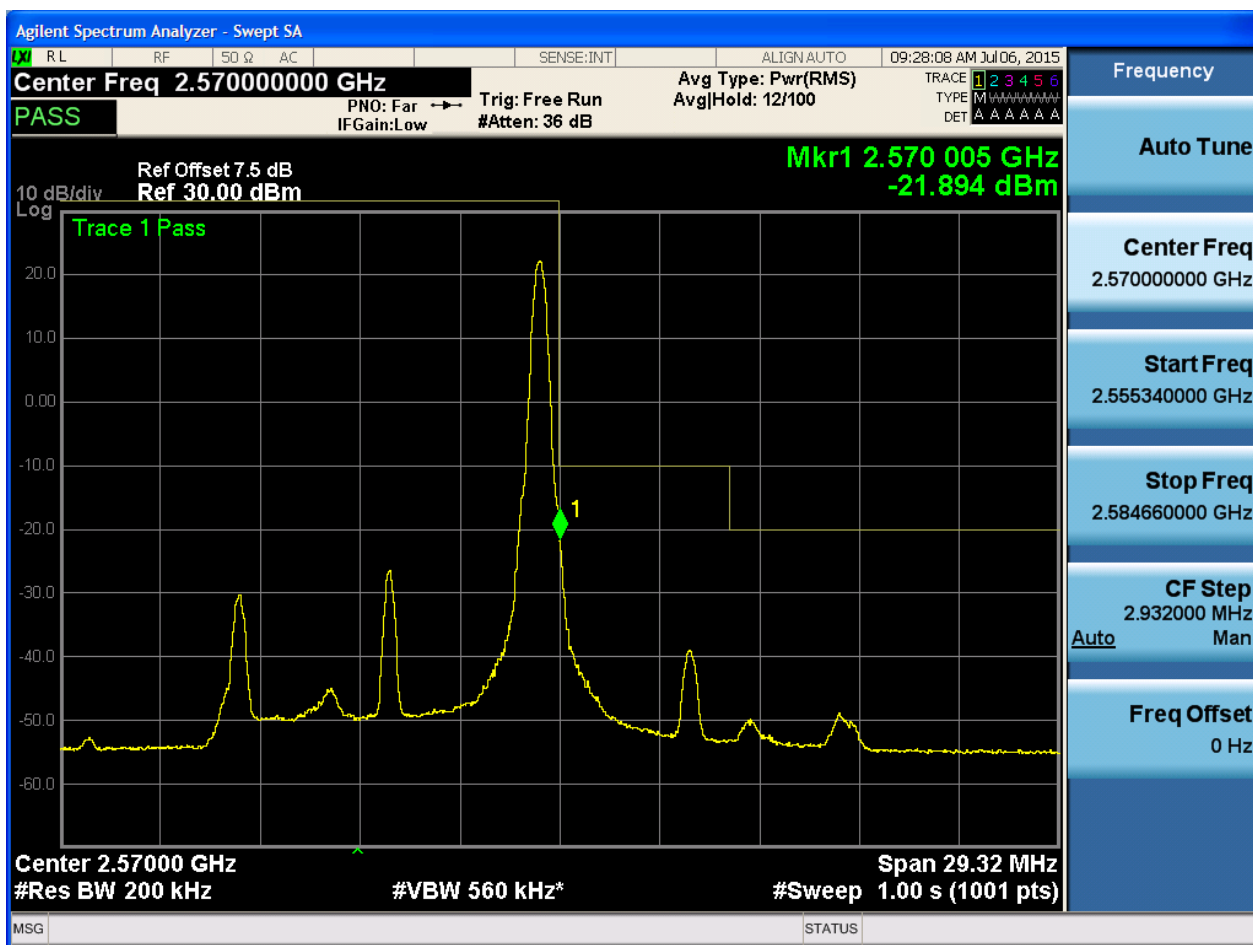
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49





5.1.1.1.2.2.3 Test RB = RB25#13





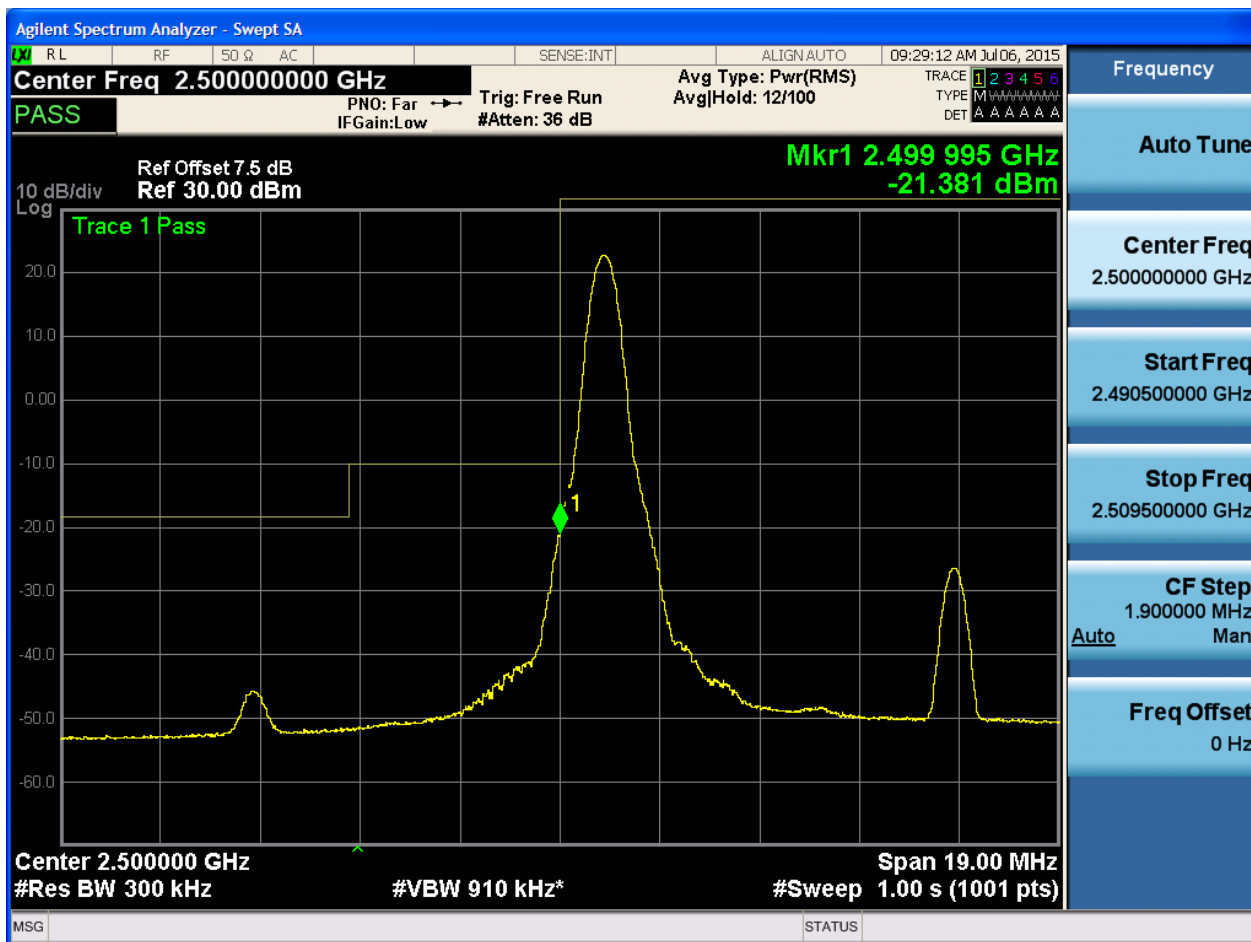
5.1.1.1.2.2.4 Test RB = RB50#0



5.1.1.1.3 Test Bandwidth = 15

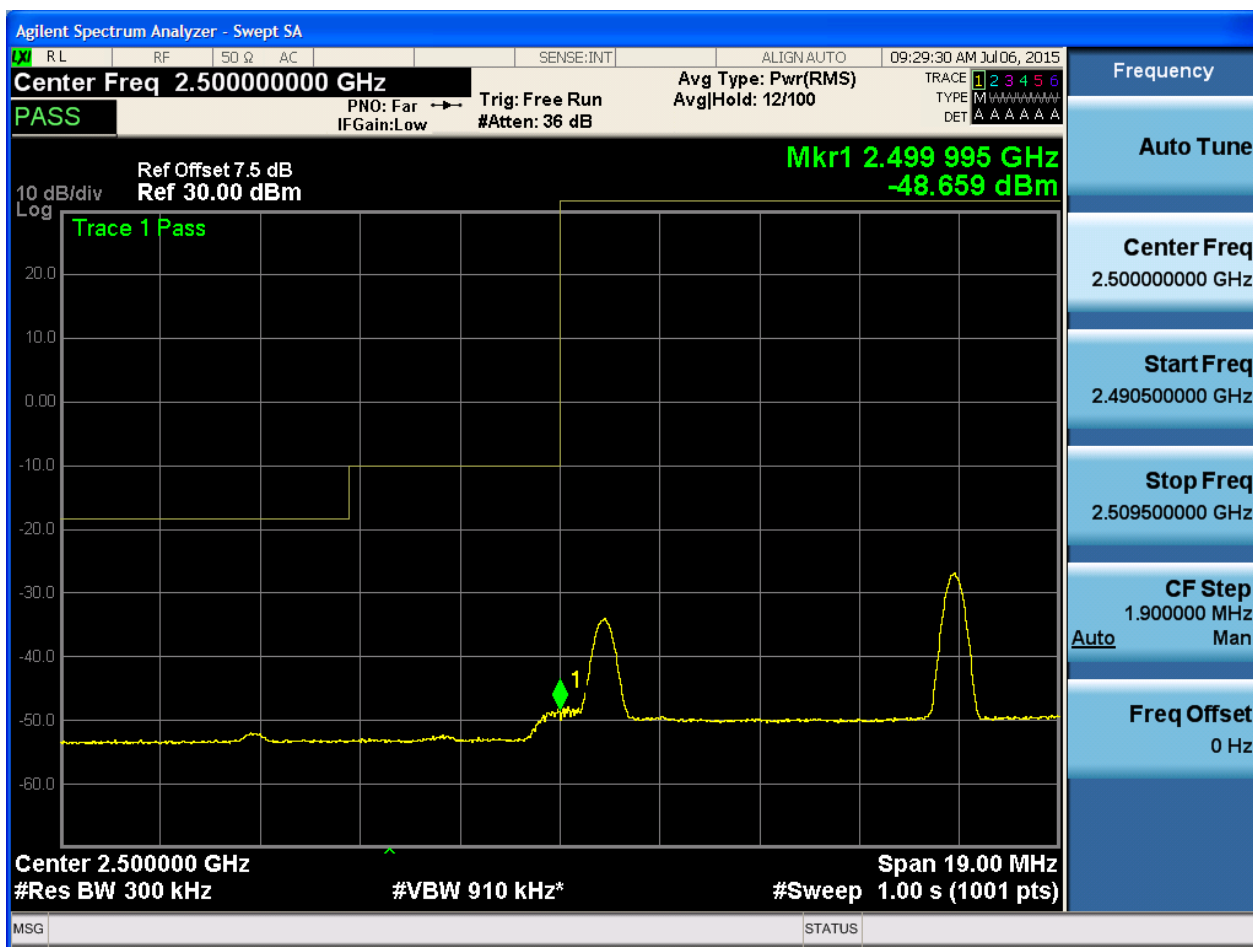
5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#74



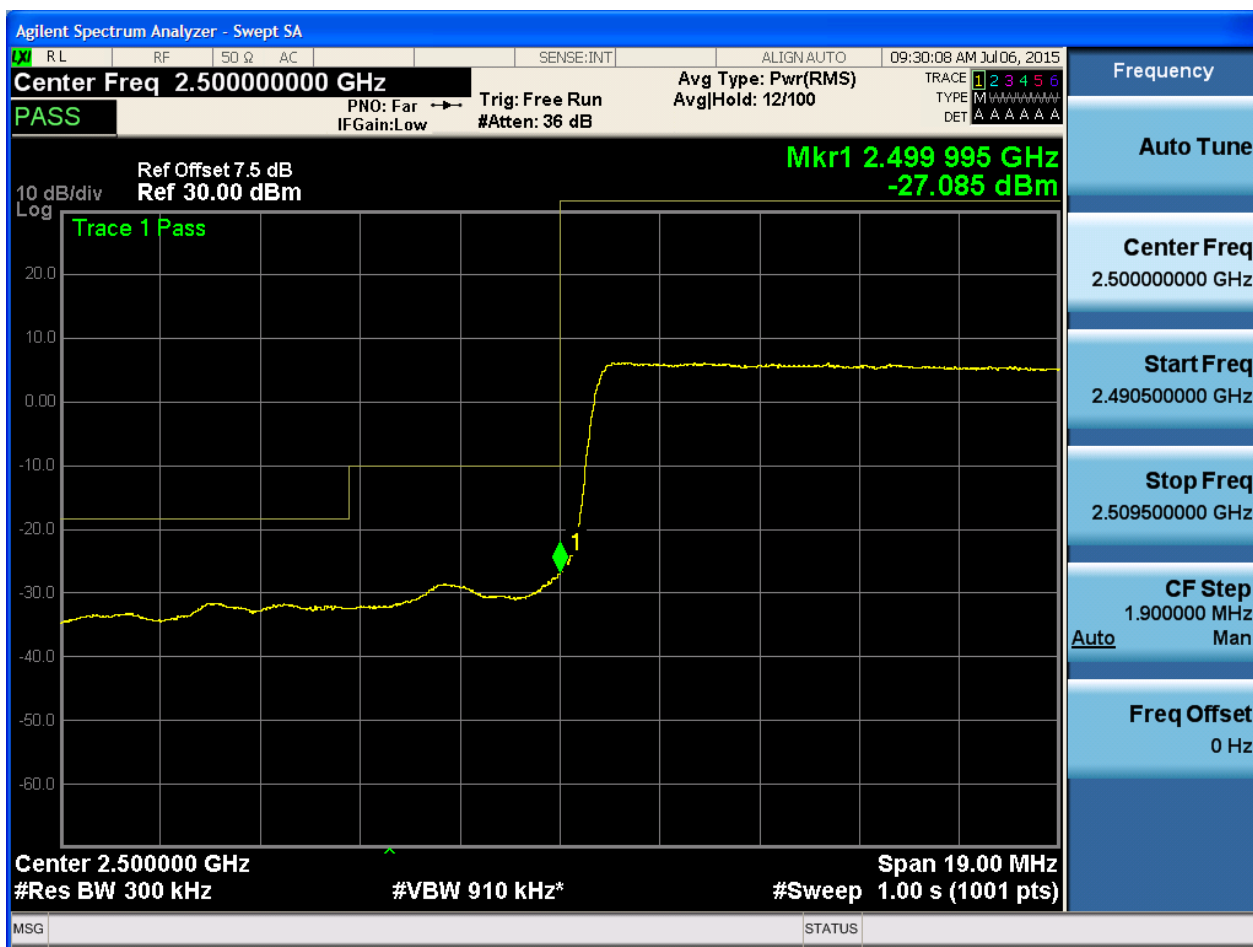


5.1.1.1.3.1.3 Test RB = RB36#18



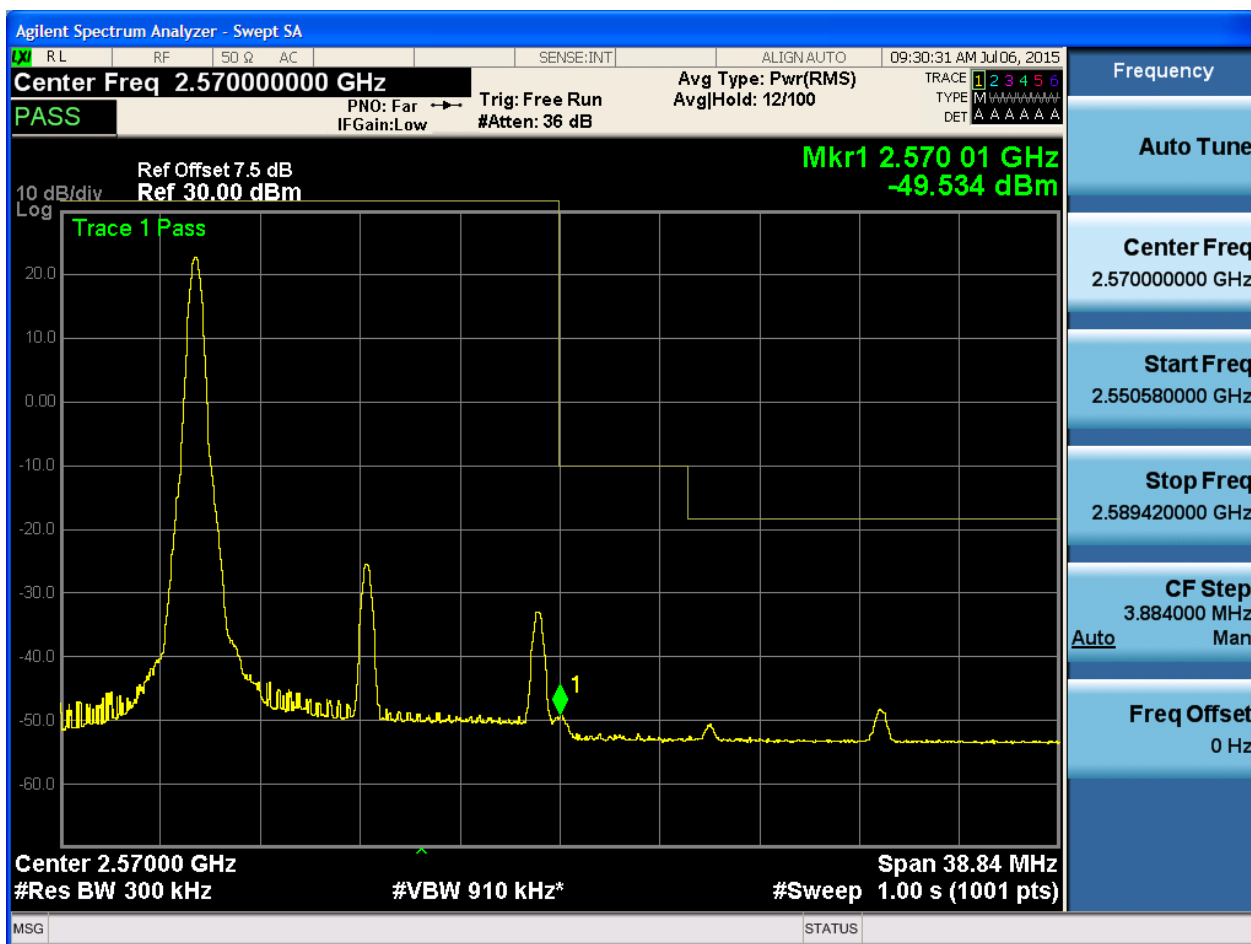


5.1.1.1.3.1.4 Test RB = RB75#0



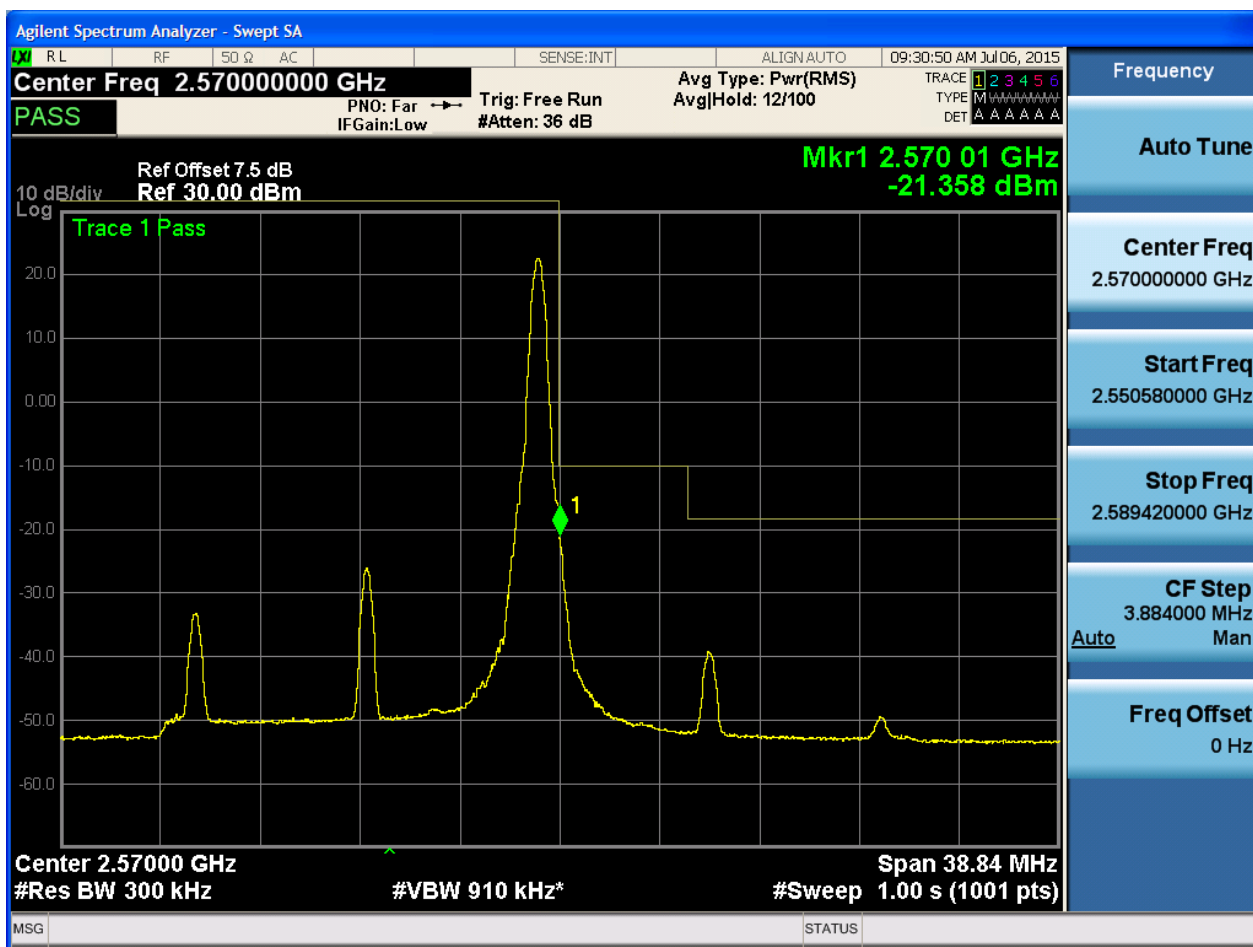
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#74





5.1.1.1.3.2.3 Test RB = RB36#18





5.1.1.1.3.2.4 Test RB = RB75#0

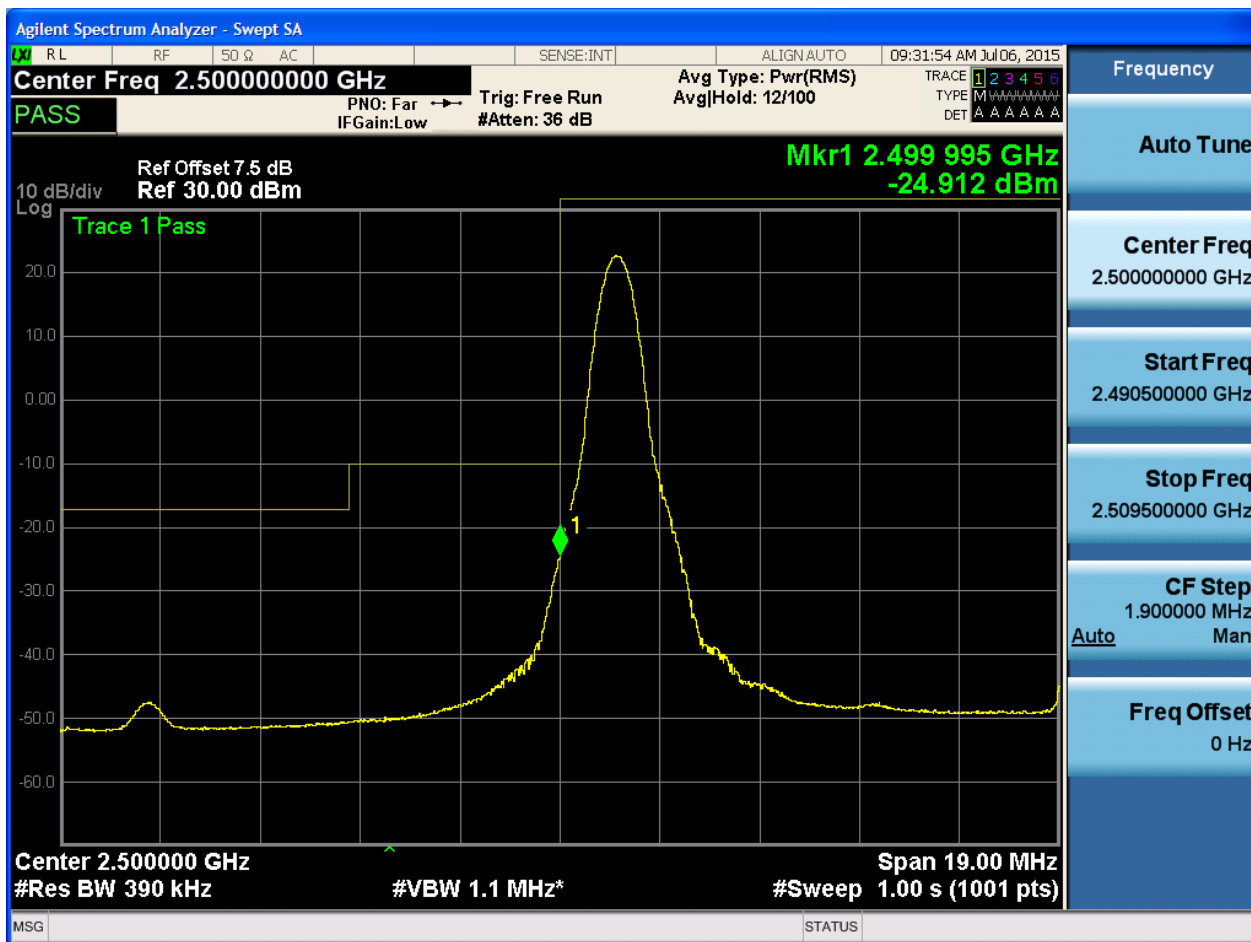




5.1.1.1.4 Test Bandwidth = 20

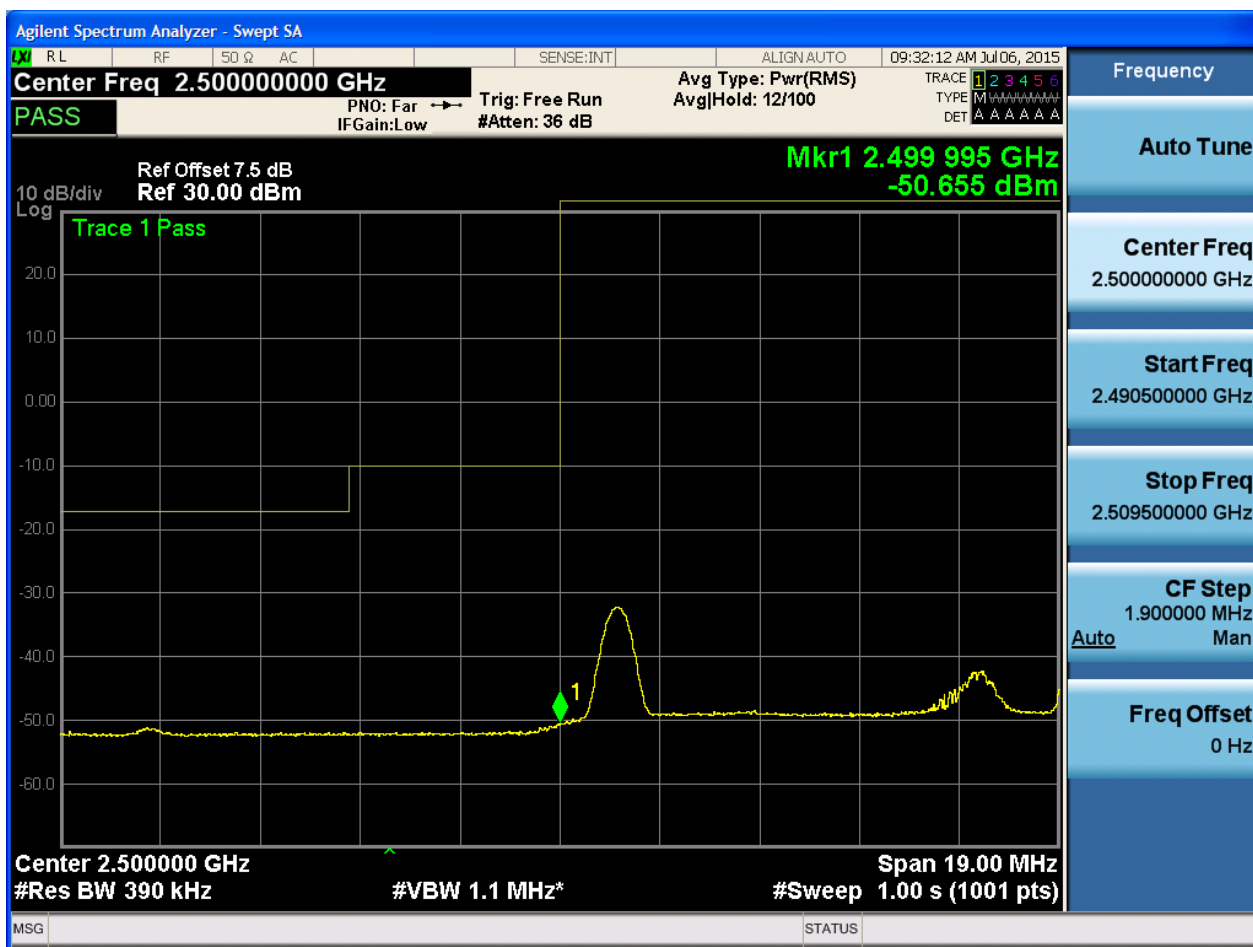
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Trig: Free Run
#Atten: 36 dB

Avg Type: Pwr(RMS)
Avg/Hold: 12/100

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

Mkr1 2.499 995 GHz
-28.733 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 390 kHz
#VBW 1.1 MHz*
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

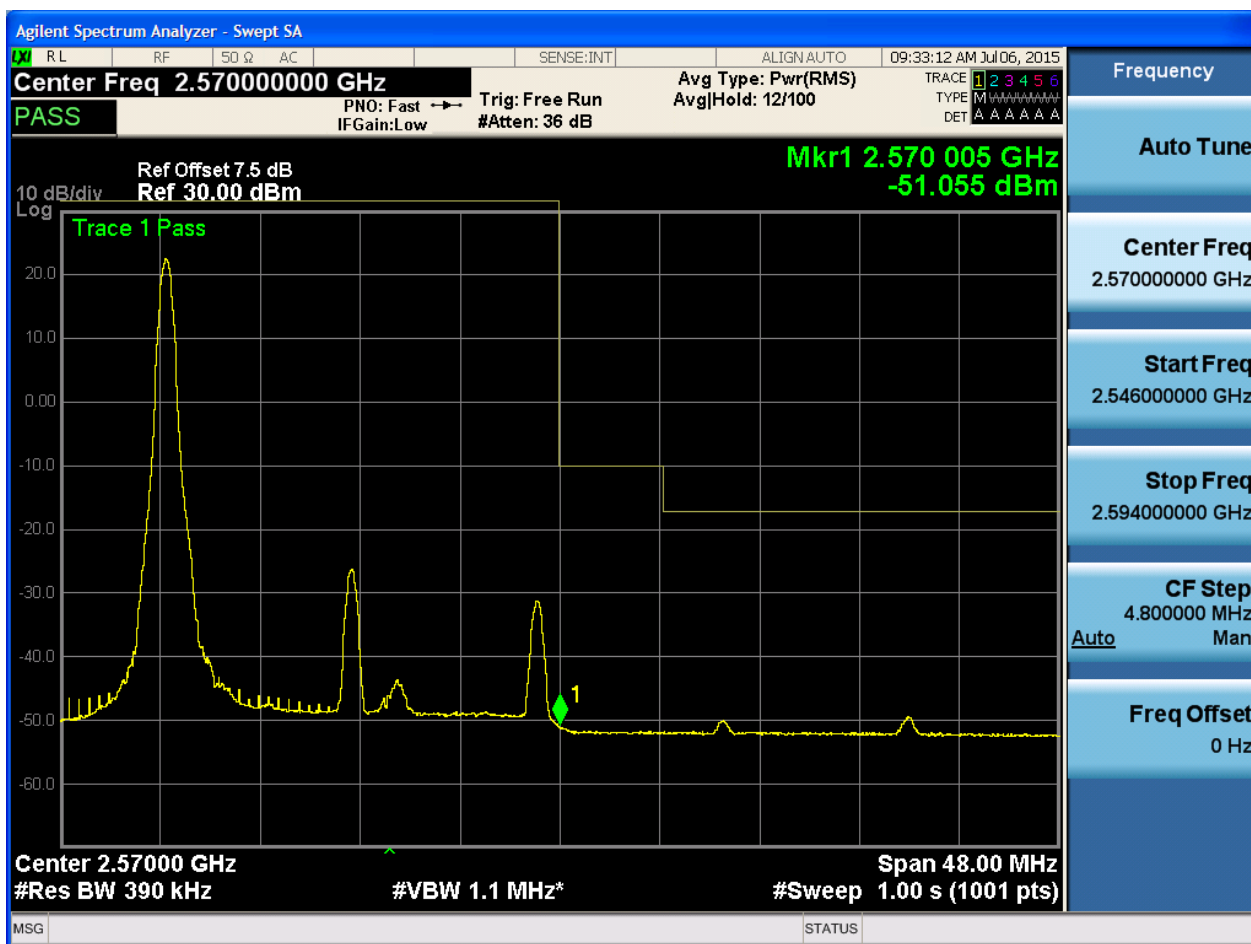


5.1.1.1.4.1.4 Test RB = RB100#0



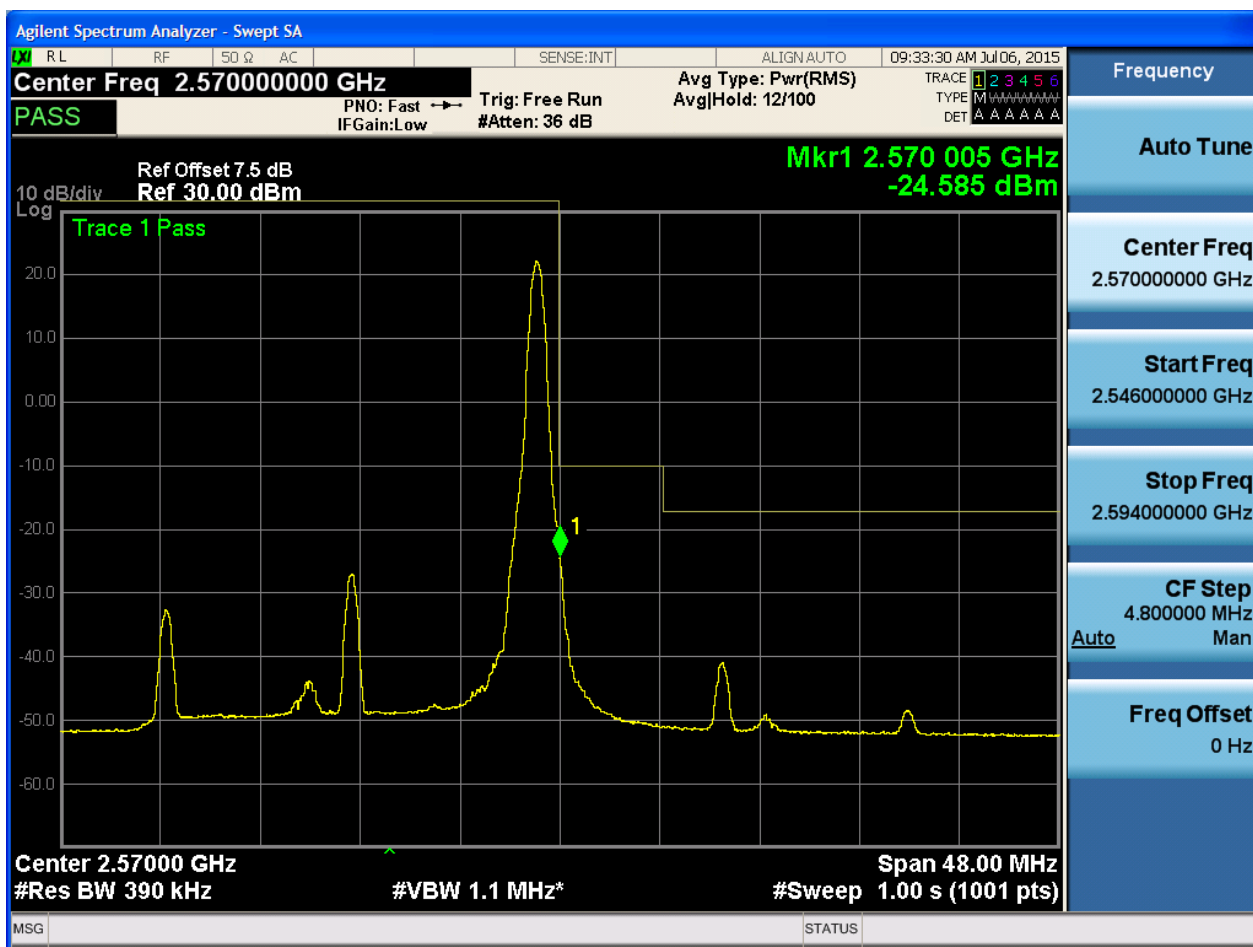
5.1.1.1.4.2 Test Channel = HCH

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

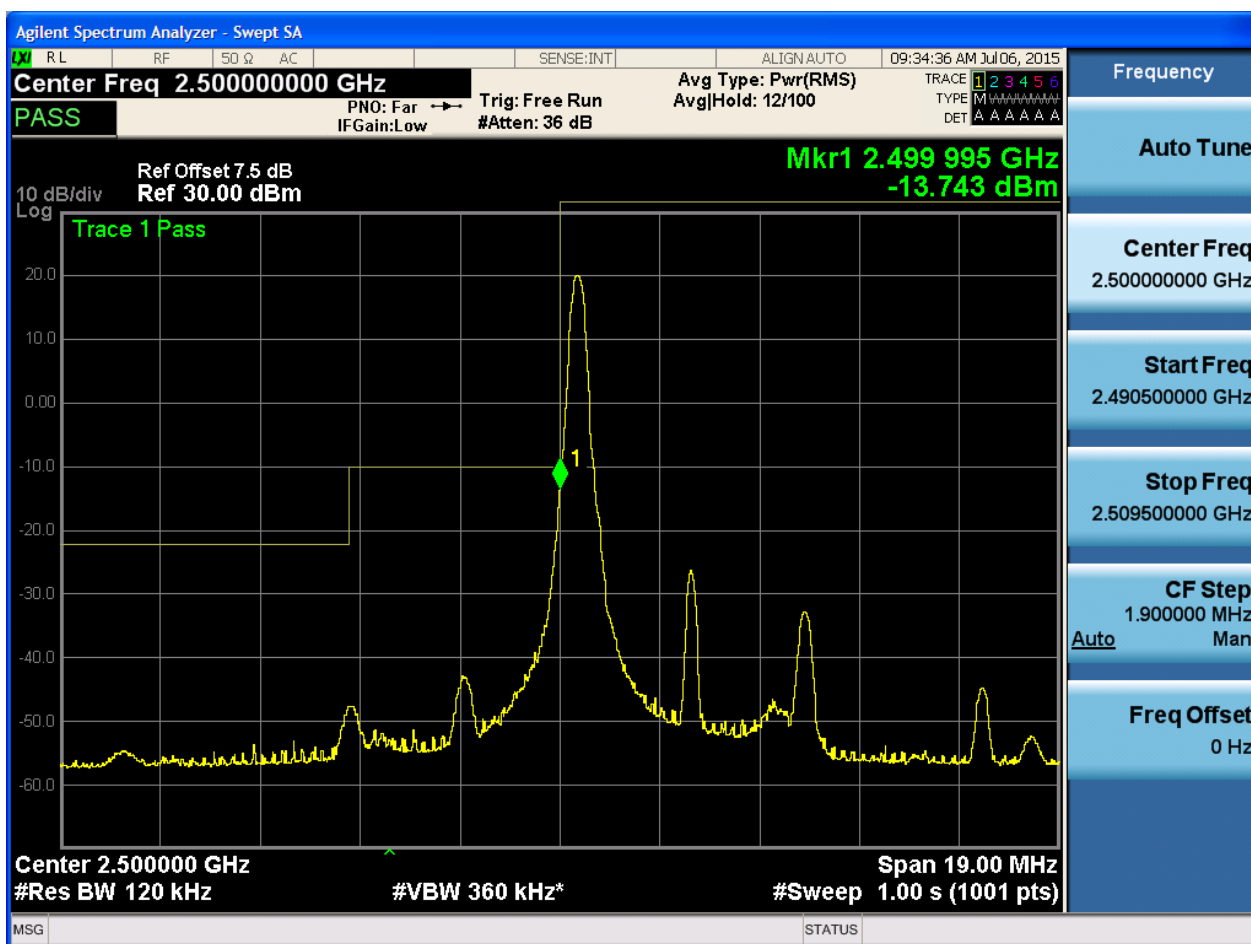


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

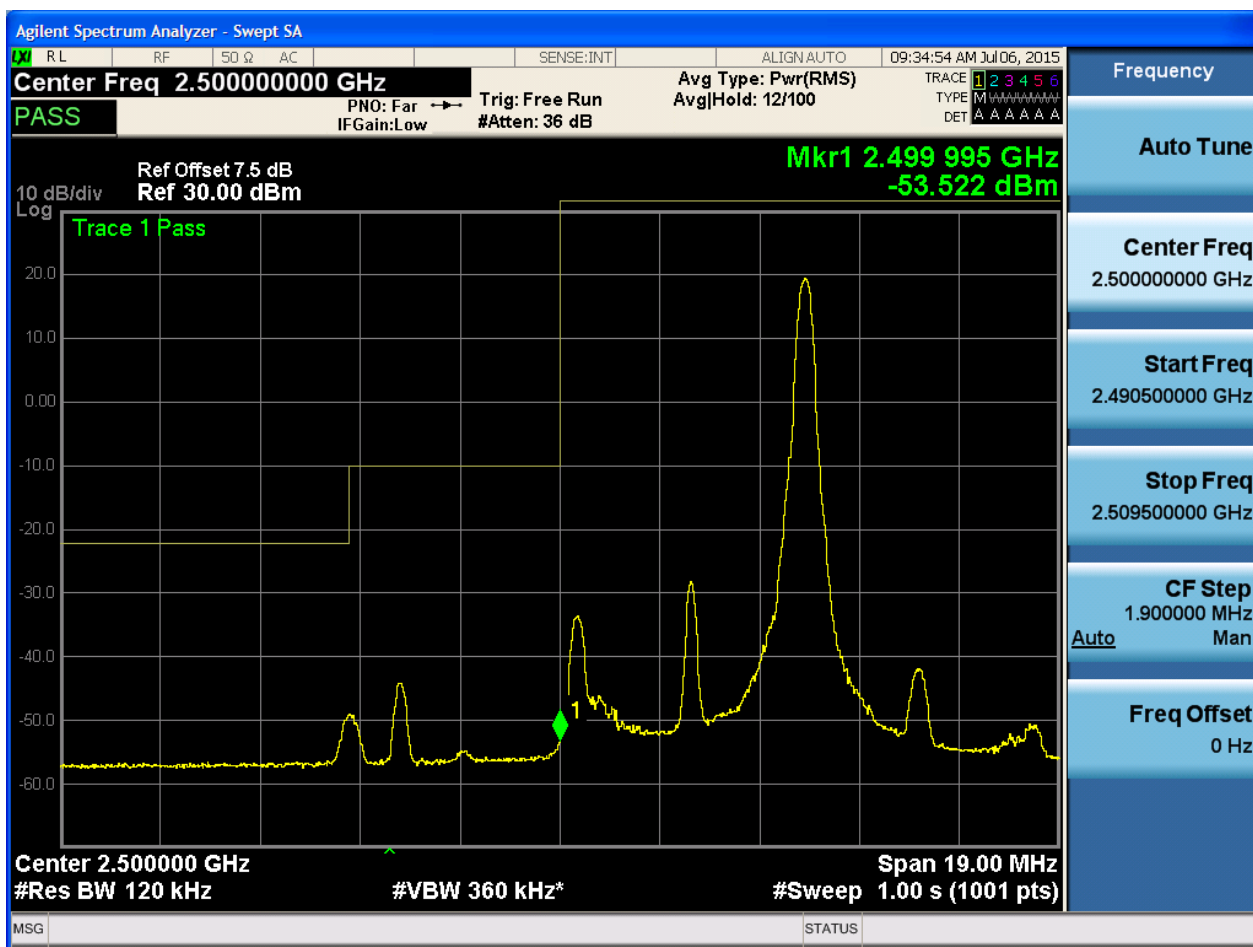
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





5.1.1.2.1.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-28.859 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)

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

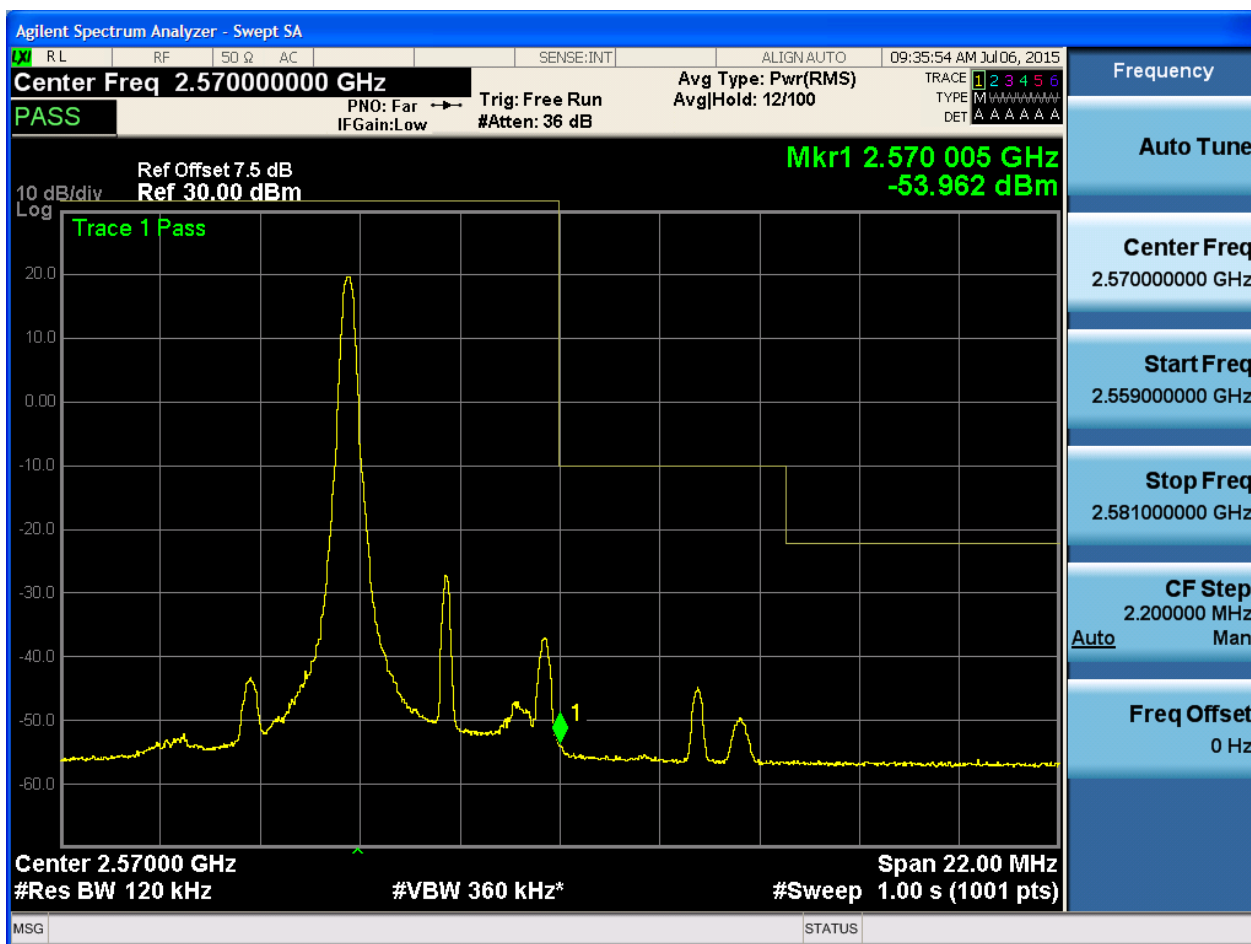


5.1.1.2.1.1.4 Test RB = RB25#0



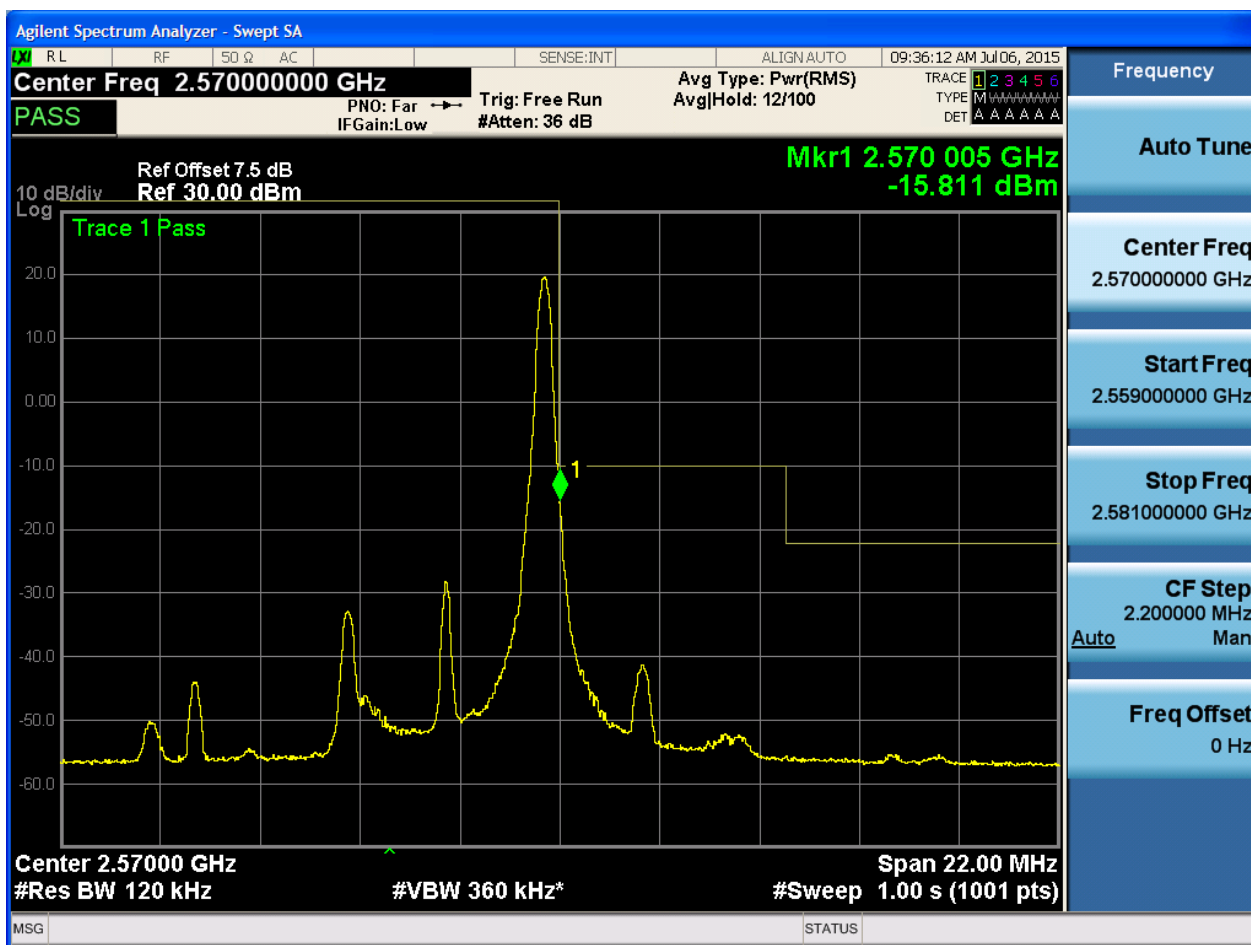
5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0



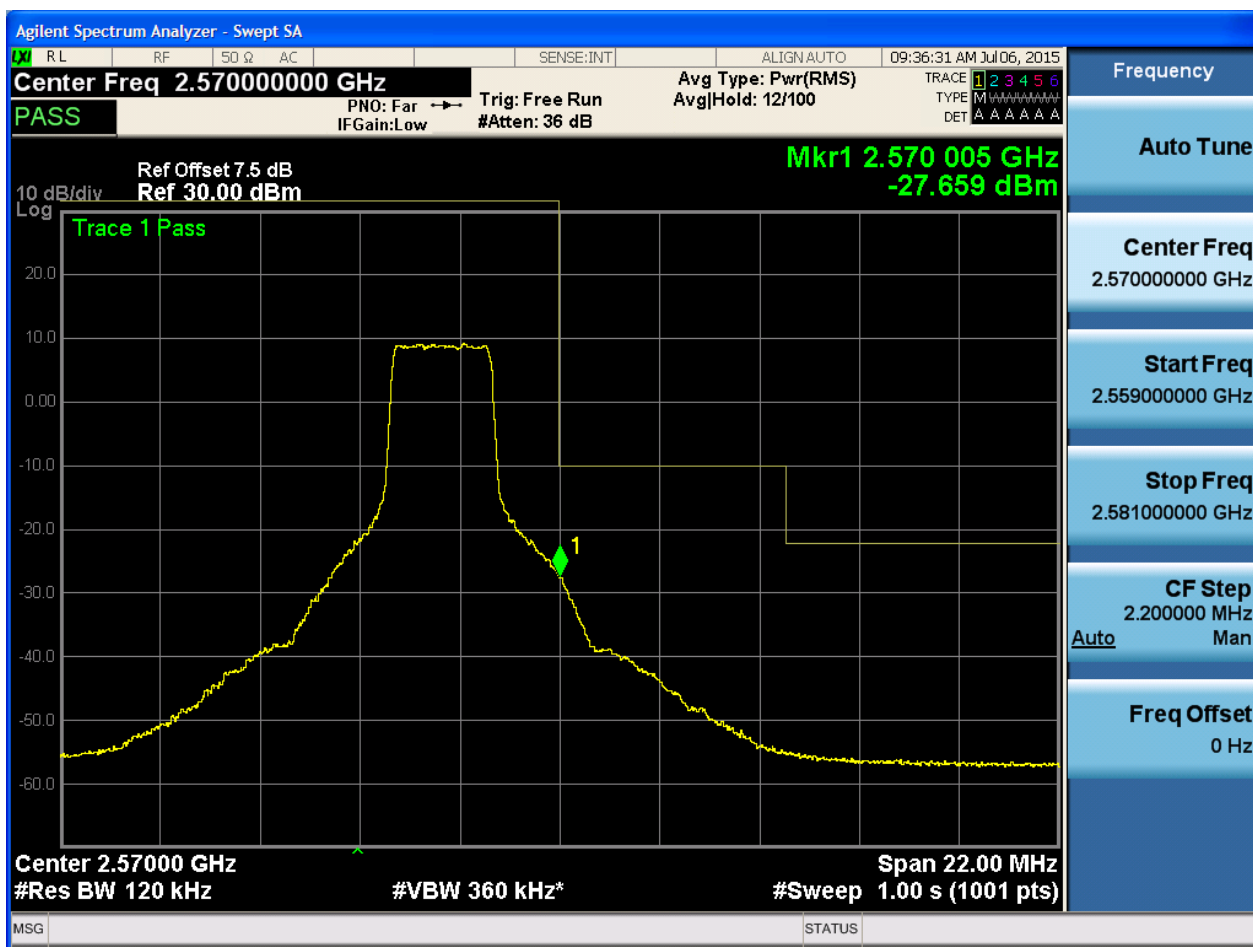


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





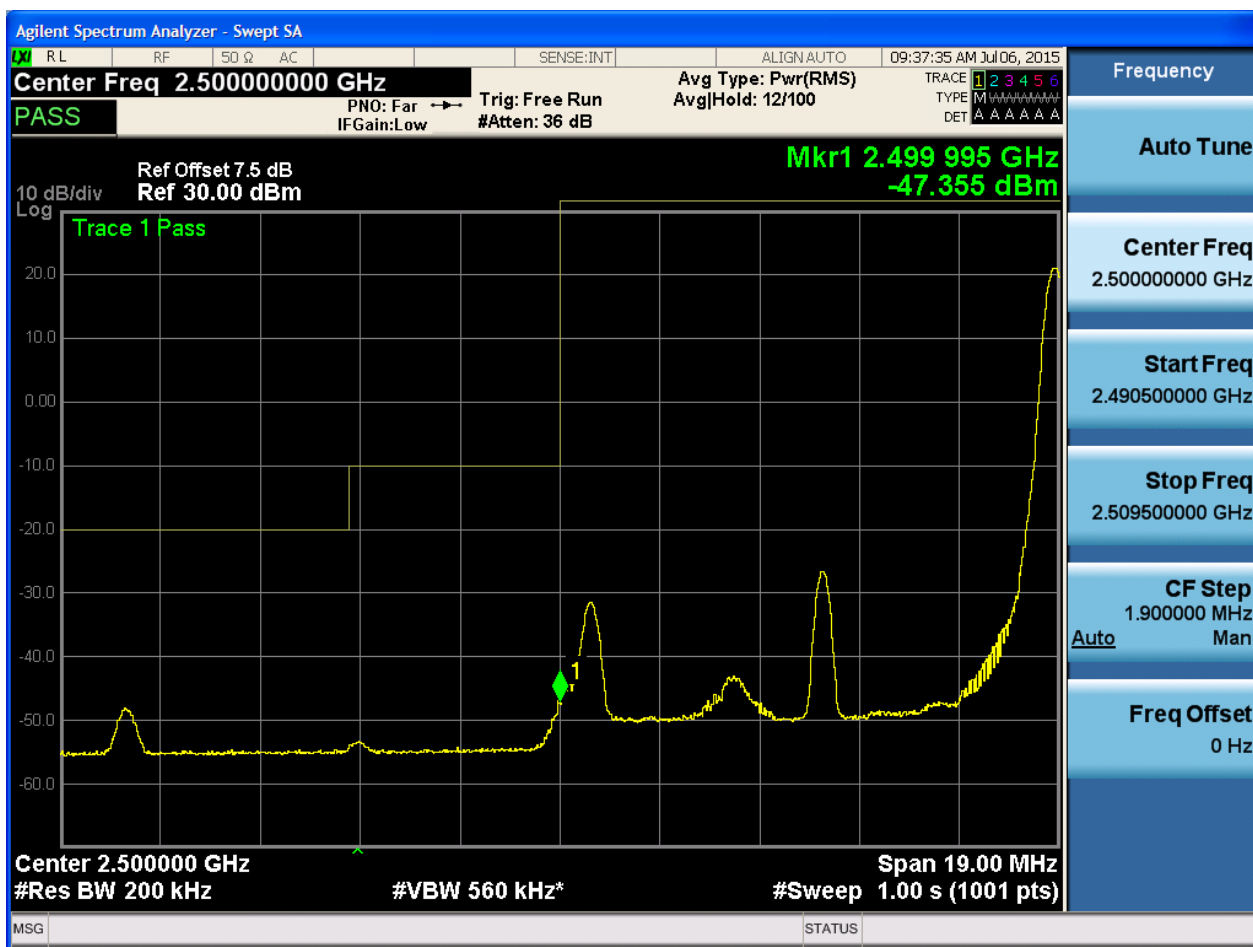
5.1.1.2.1.2.4 Test RB = RB25#0





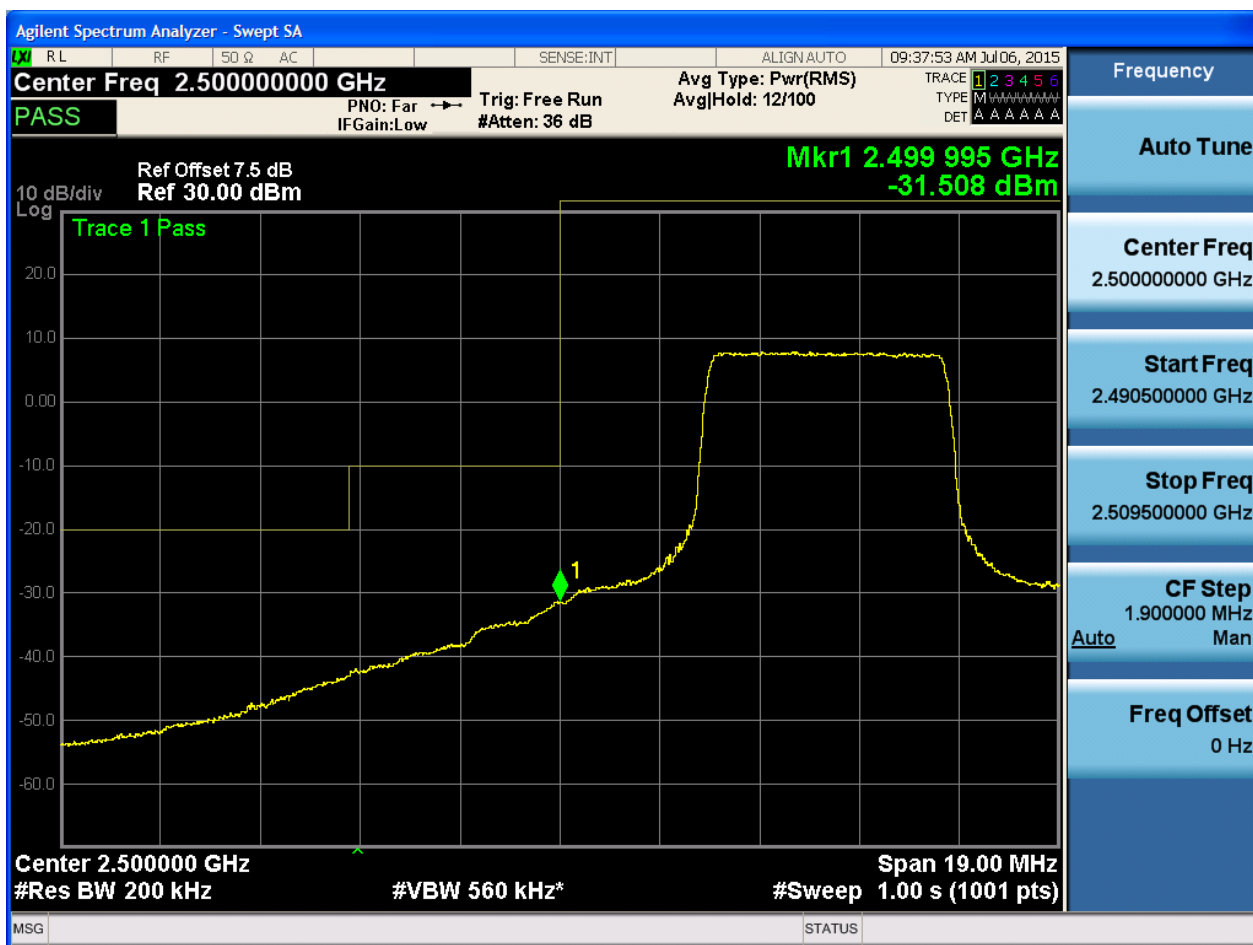


5.1.1.2.2.1.2 Test RB = RB1#49





5.1.1.2.2.1.3 Test RB = RB25#13



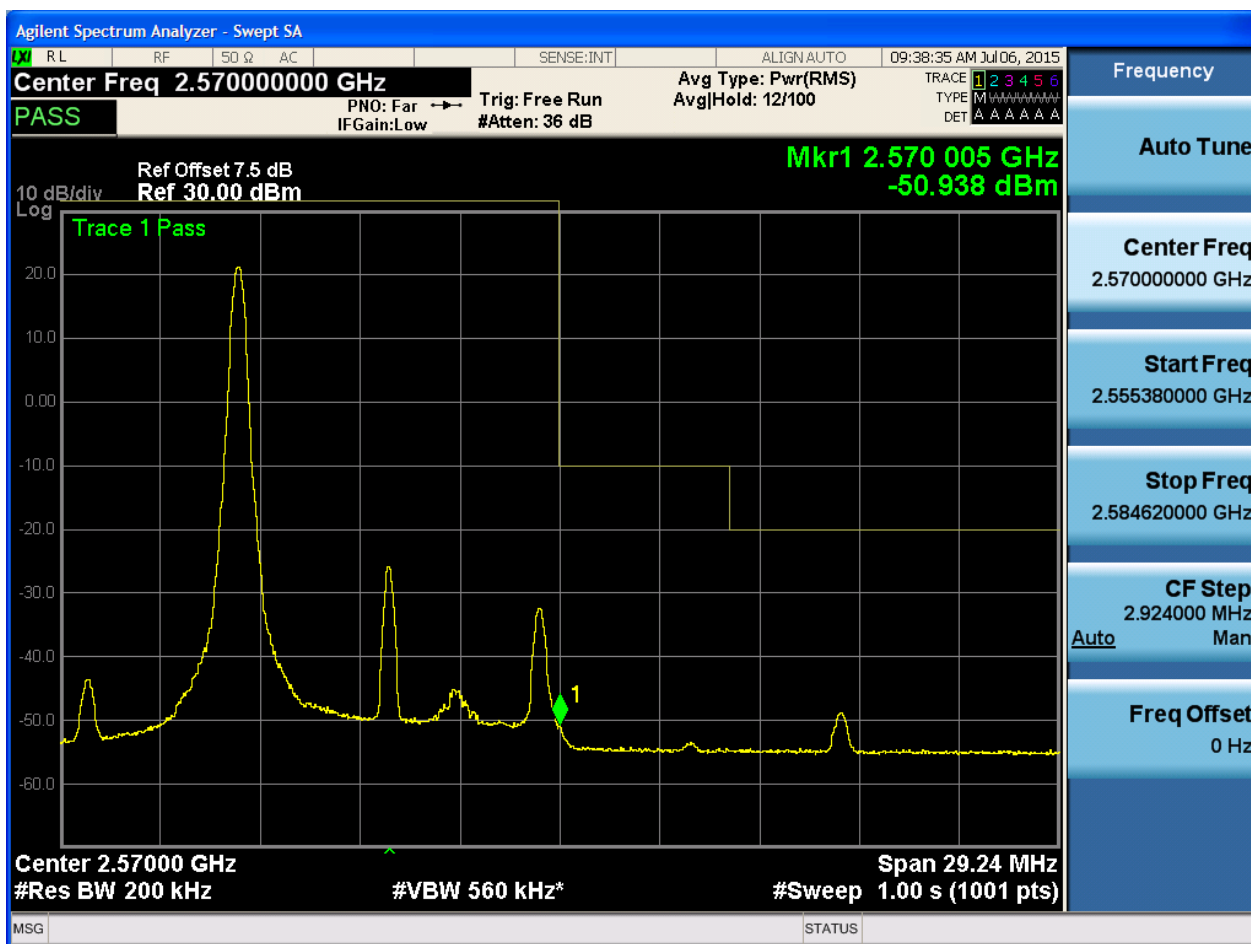


5.1.1.2.2.1.4 Test RB = RB50#0



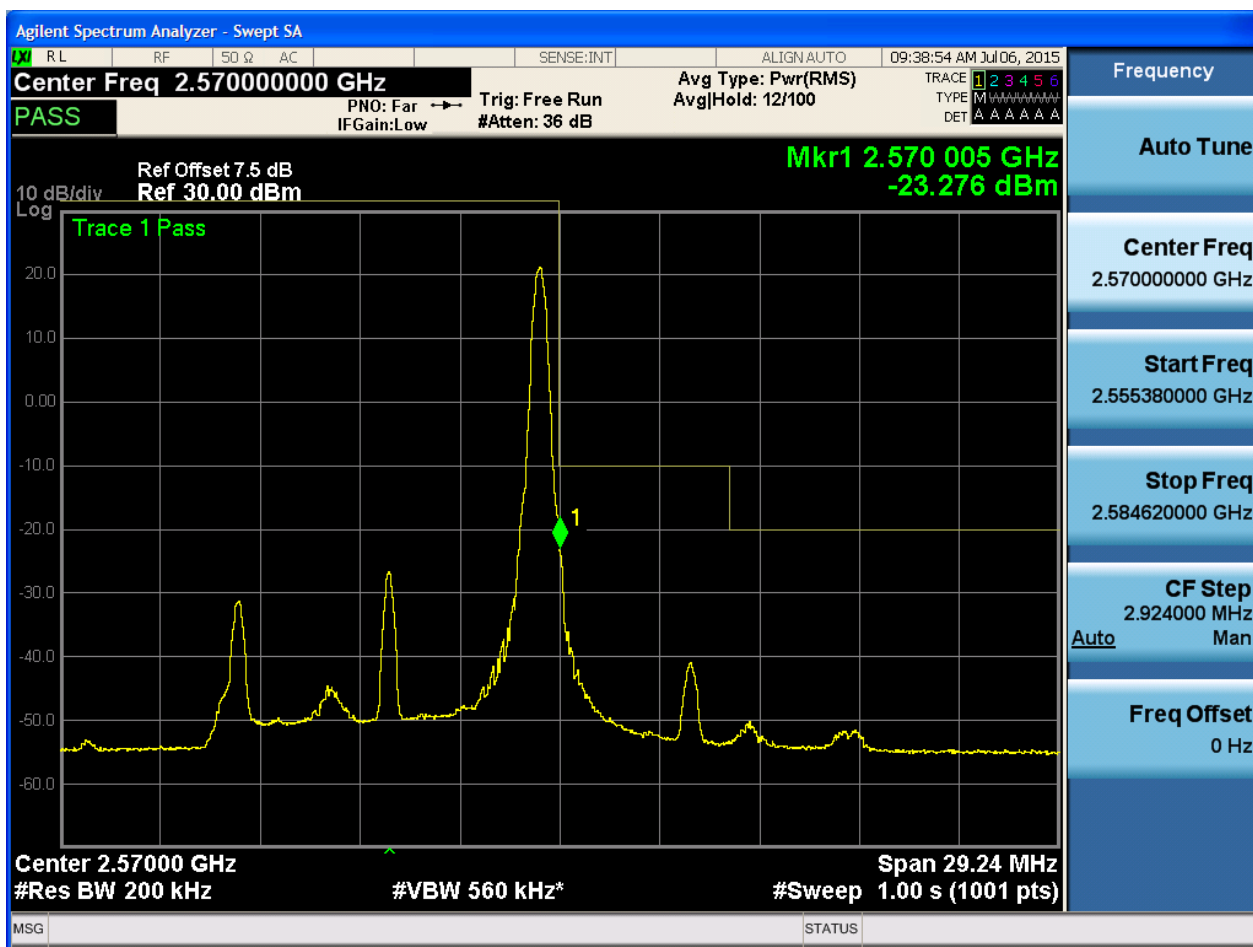
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.570 005 GHz
-27.268 dBm

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

Span 29.24 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.555380000 GHz

Stop Freq
2.584620000 GHz

CF Step
2.924000 MHz
Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Center 2.5700 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.24 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq 2.57000000 GHz

Start Freq 2.555380000 GHz

Stop Freq 2.584620000 GHz

CF Step 2.924000 MHz
Man

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Center 2.5700 GHz
#Res BW 200 kHz
#VBW 560 kHz*

Span 29.24 MHz
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq 2.57000000 GHz

Start Freq 2.555380000 GHz

Stop Freq 2.584620000 GHz

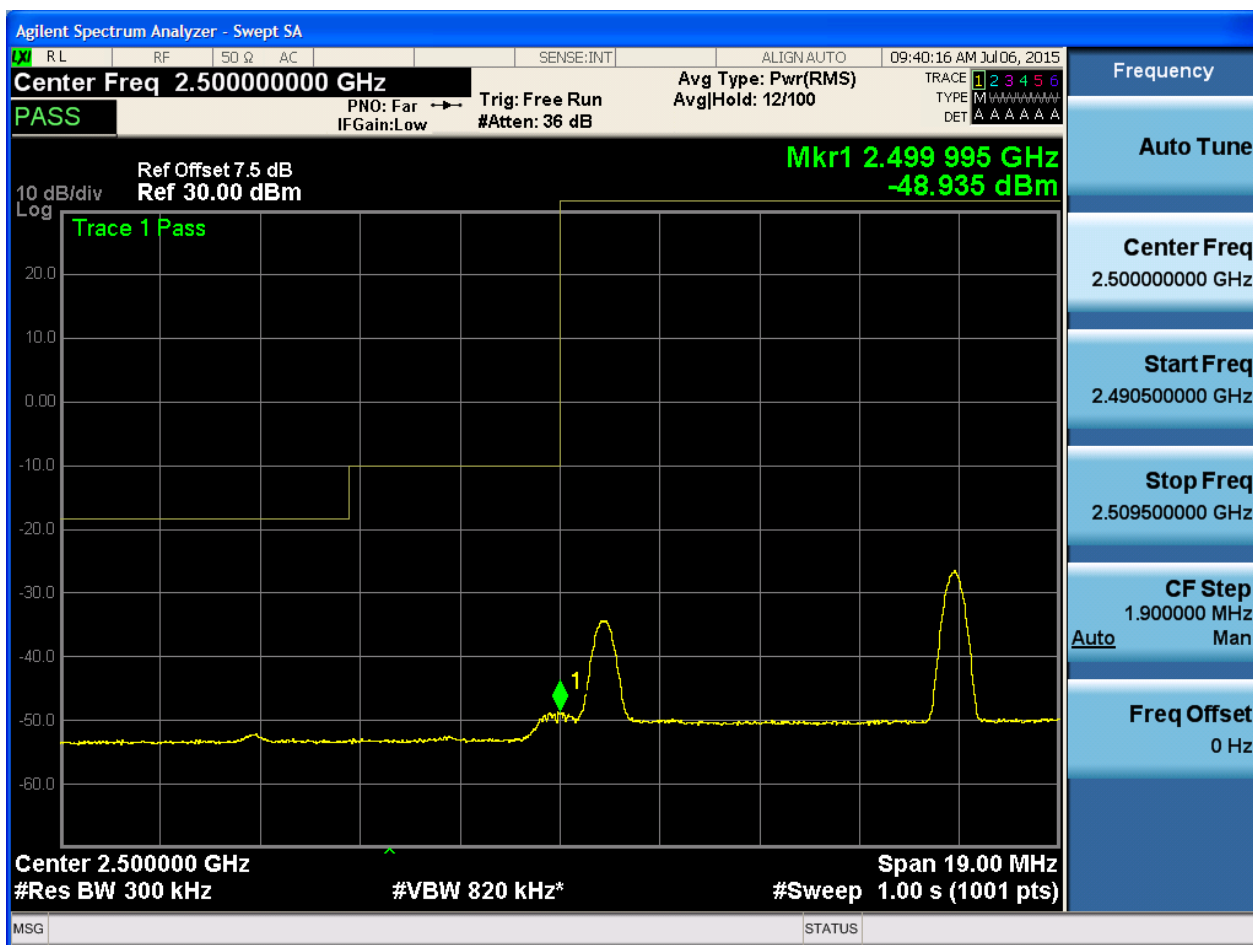
CF Step 2.924000 MHz
Man

Freq Offset 0 Hz





5.1.1.2.3.1.2 Test RB = RB1#74



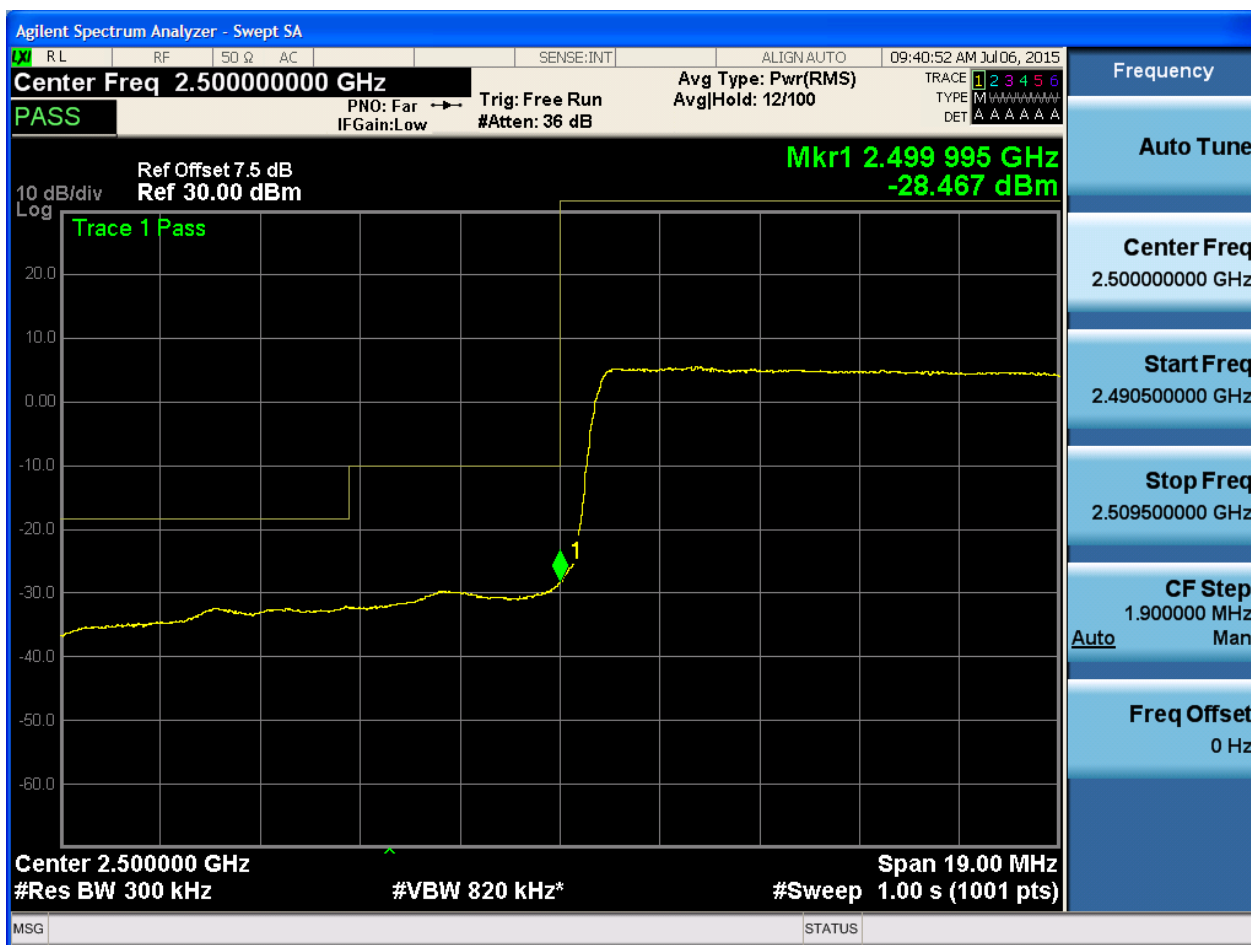


5.1.1.2.3.1.3 Test RB = RB36#18





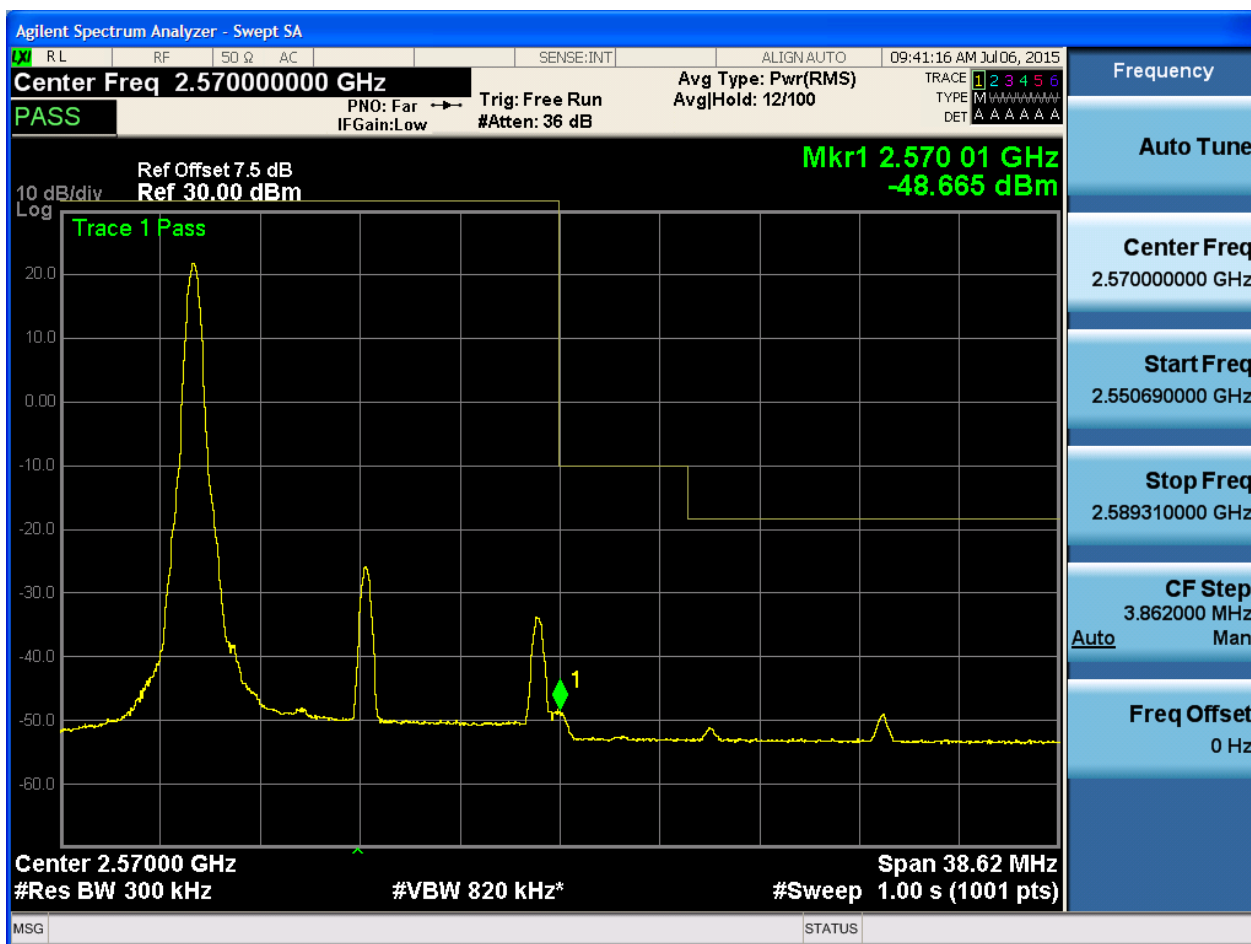
5.1.1.2.3.1.4 Test RB = RB75#0





5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.57000000 GHz

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.5701 GHz
-22.545 dBm

Trace 1 Pass

Center 2.57000 GHz
#Res BW 300 kHz
#VBW 820 kHz*

Span 38.62 MHz
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550690000 GHz

Stop Freq
2.589310000 GHz

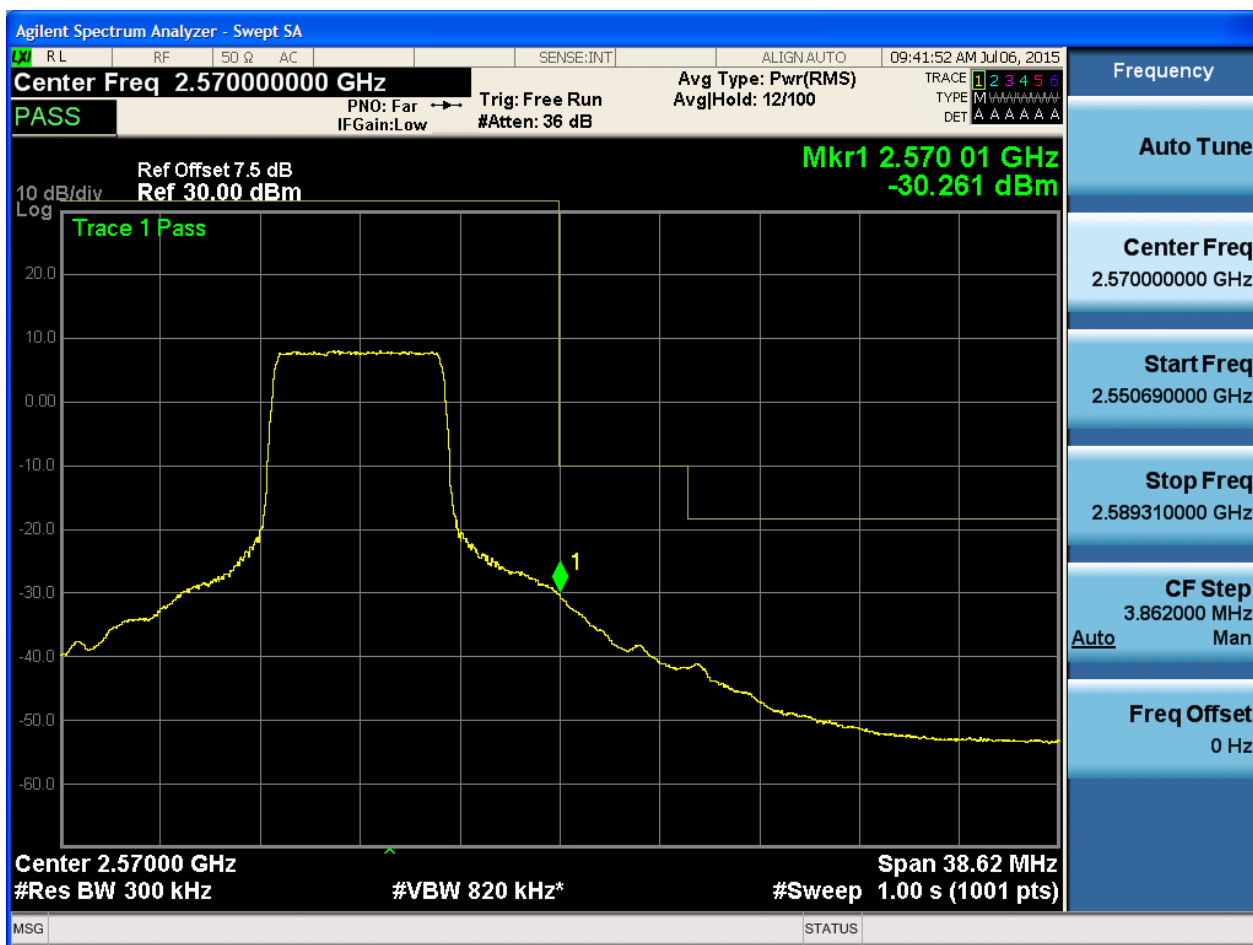
CF Step
3.862000 MHz
Man

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 approximately 2.5701 GHz, marked with a yellow diamond and labeled '1'. The peak power is -22.545 dBm. The center frequency is set to 2.57000000 GHz. The span is 38.62 MHz. The resolution bandwidth (Res BW) is 300 kHz, and the video bandwidth (VBW) is 820 kHz. The sweep time is 1.00 s. The display also shows various settings like PNO: Far, IF Gain: Low, and Trigg: Free Run. The status bar at the bottom indicates 'MSG' and 'STATUS'.



5.1.1.2.3.2.3 Test RB = RB36#18





5.1.1.2.3.2.4 Test RB = RB75#0

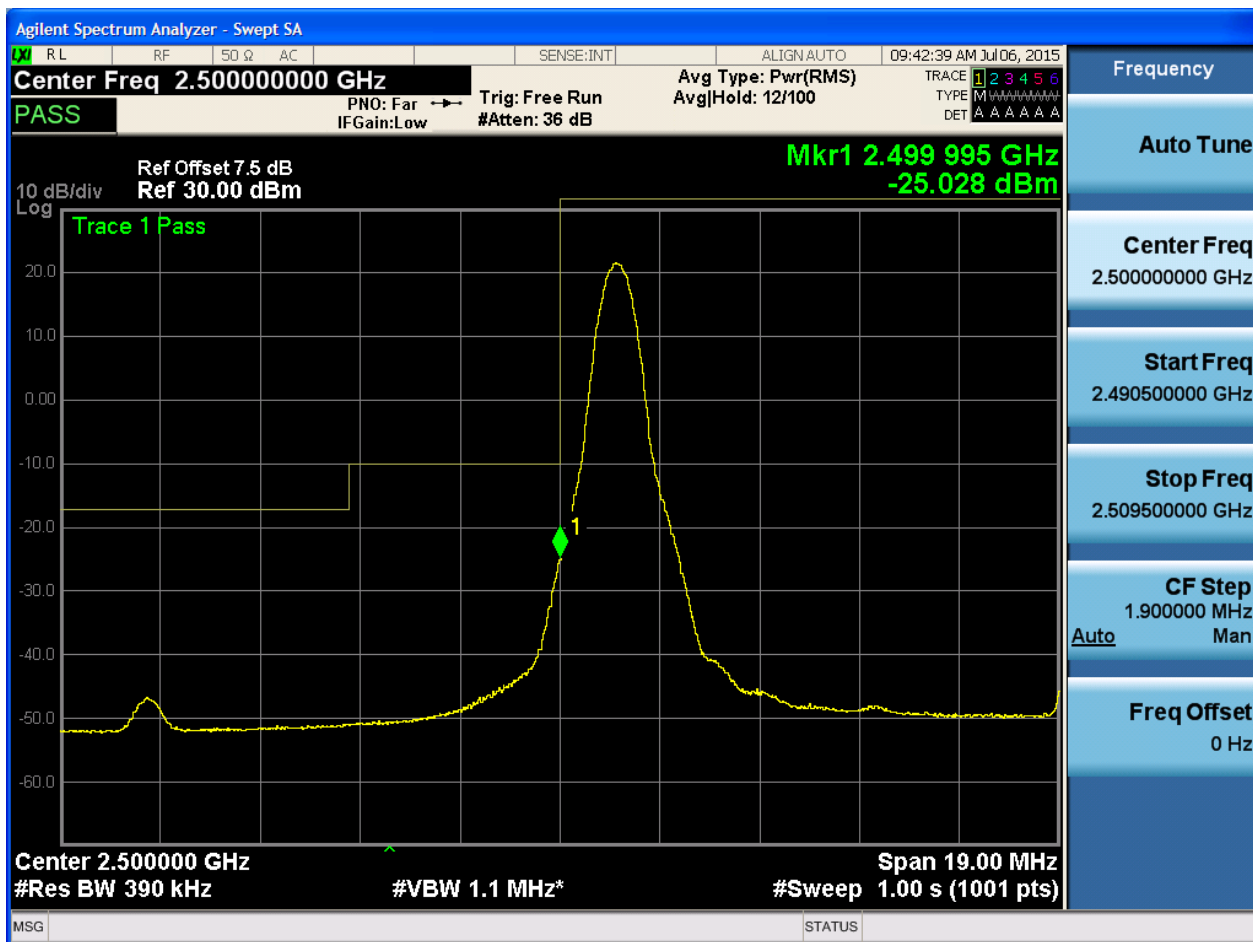




5.1.1.2.4 Test Bandwidth = 20

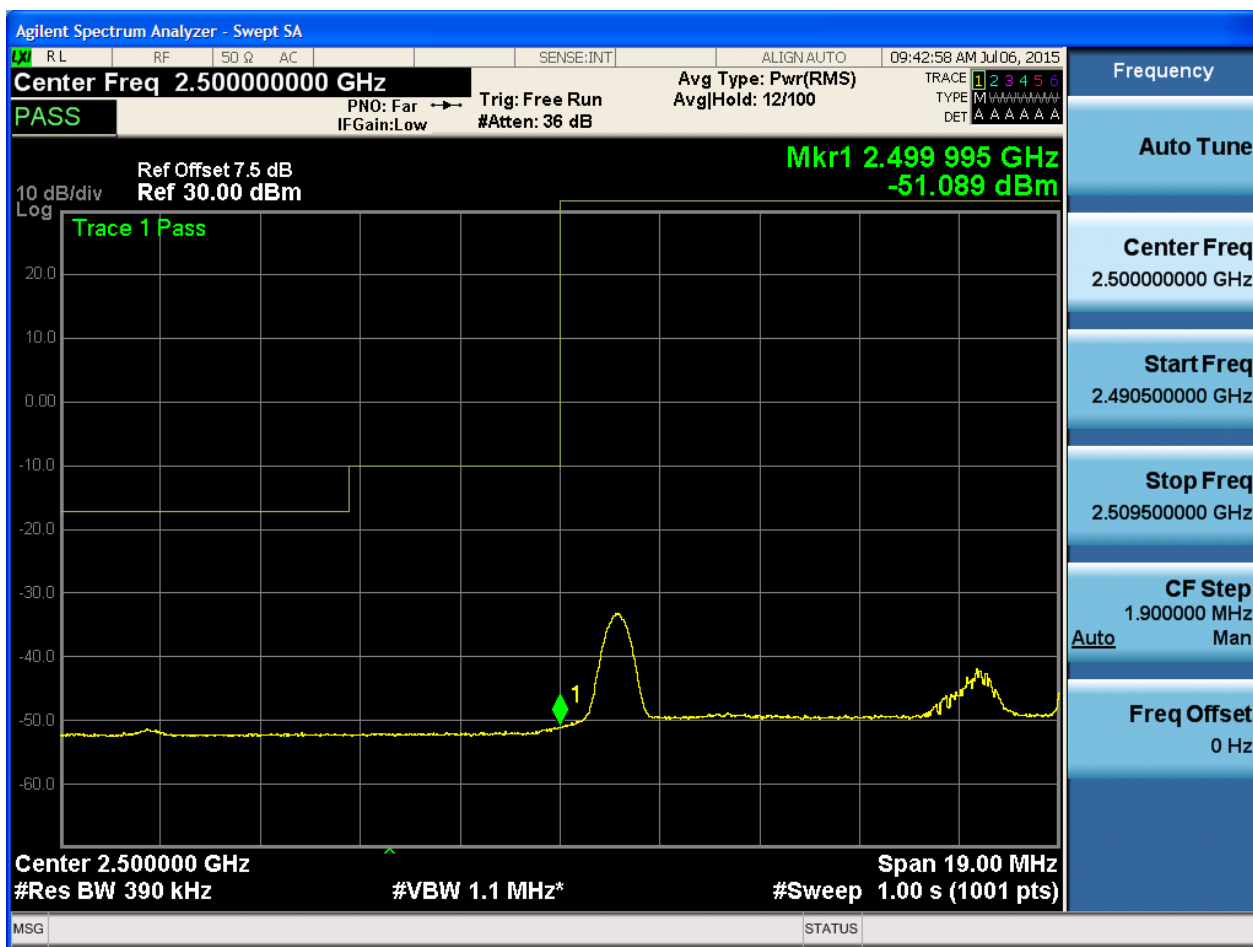
5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



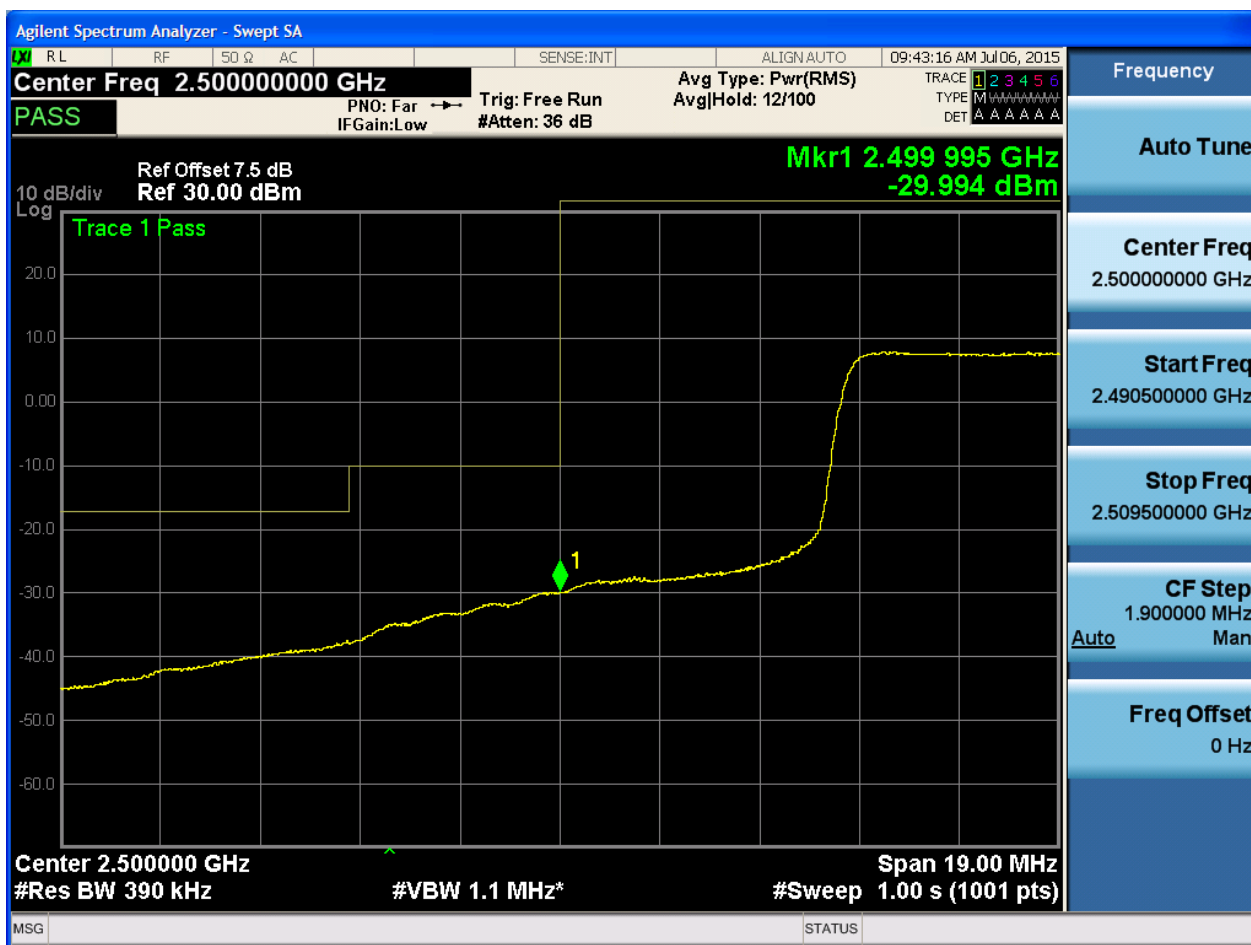


5.1.1.2.4.1.2 Test RB = RB1#99



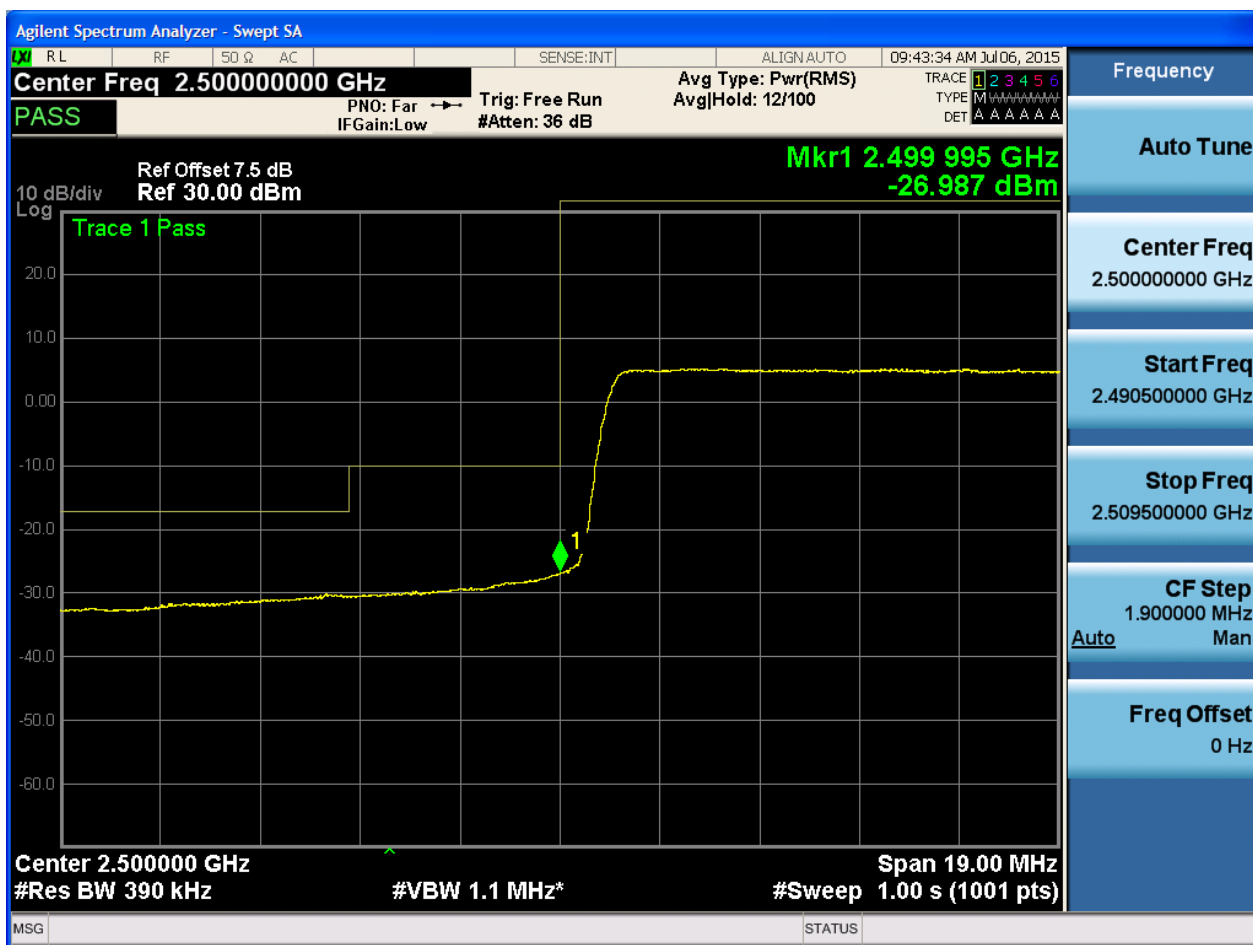


5.1.1.2.4.1.3 Test RB = RB50#25





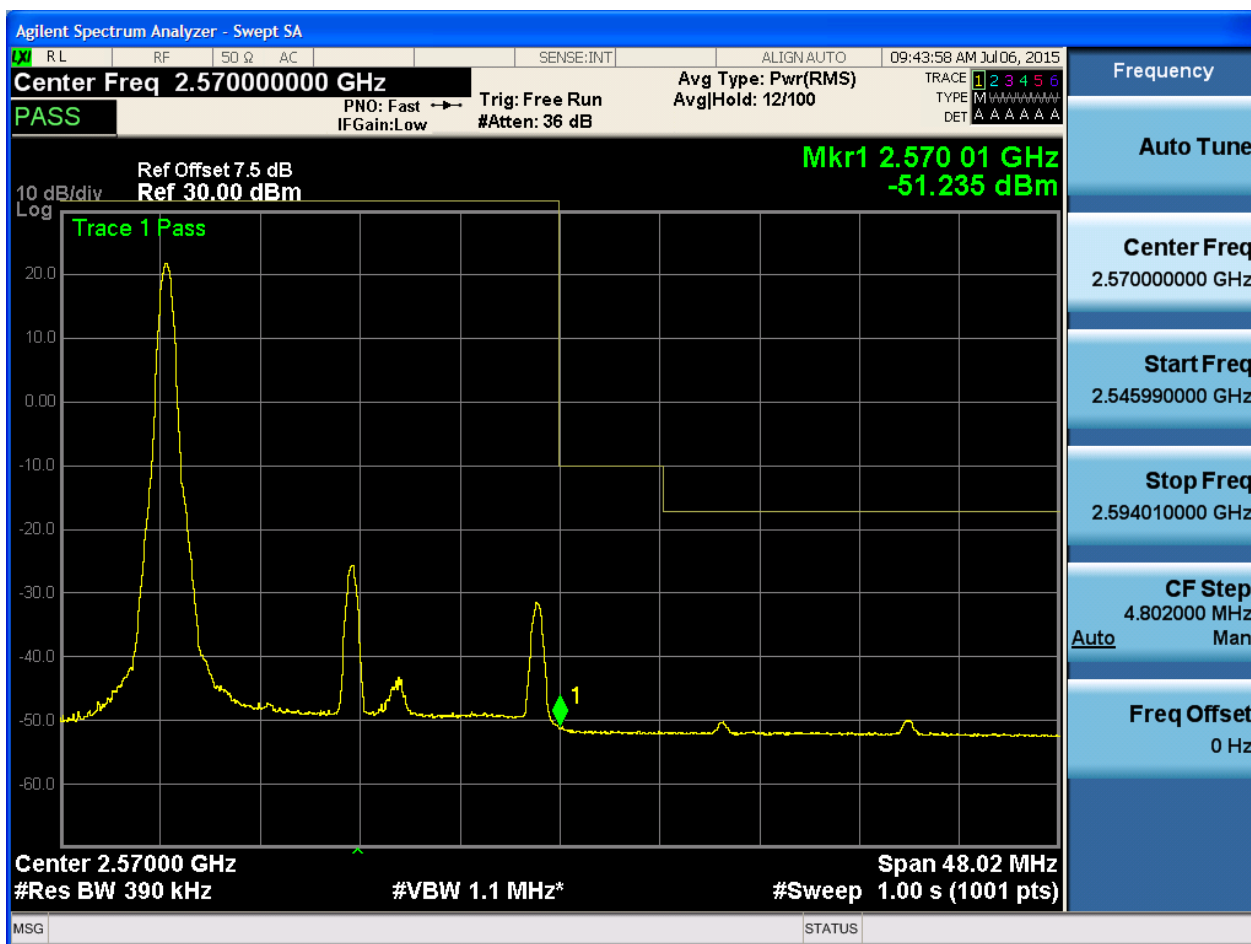
5.1.1.2.4.1.4 Test RB = RB100#0





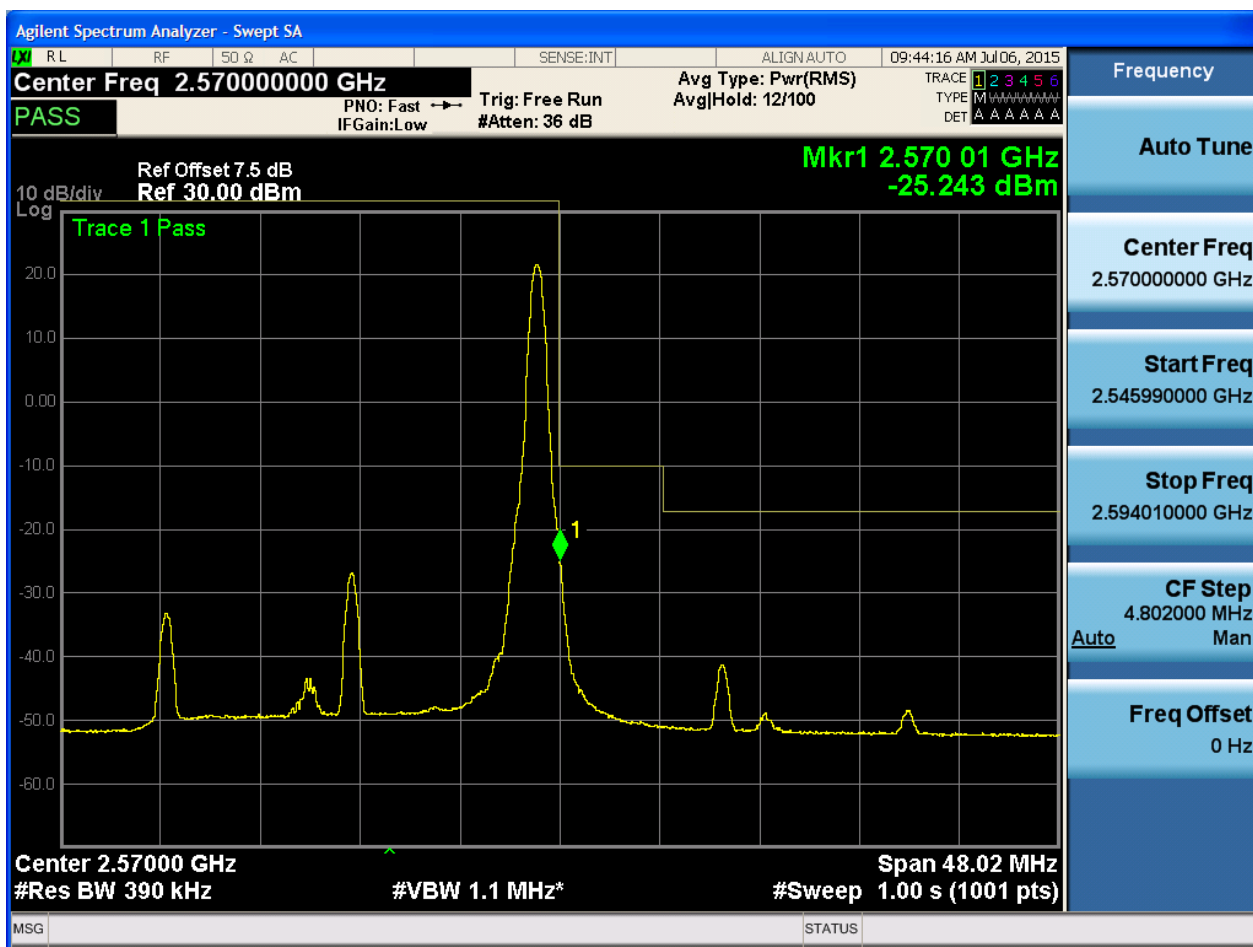
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



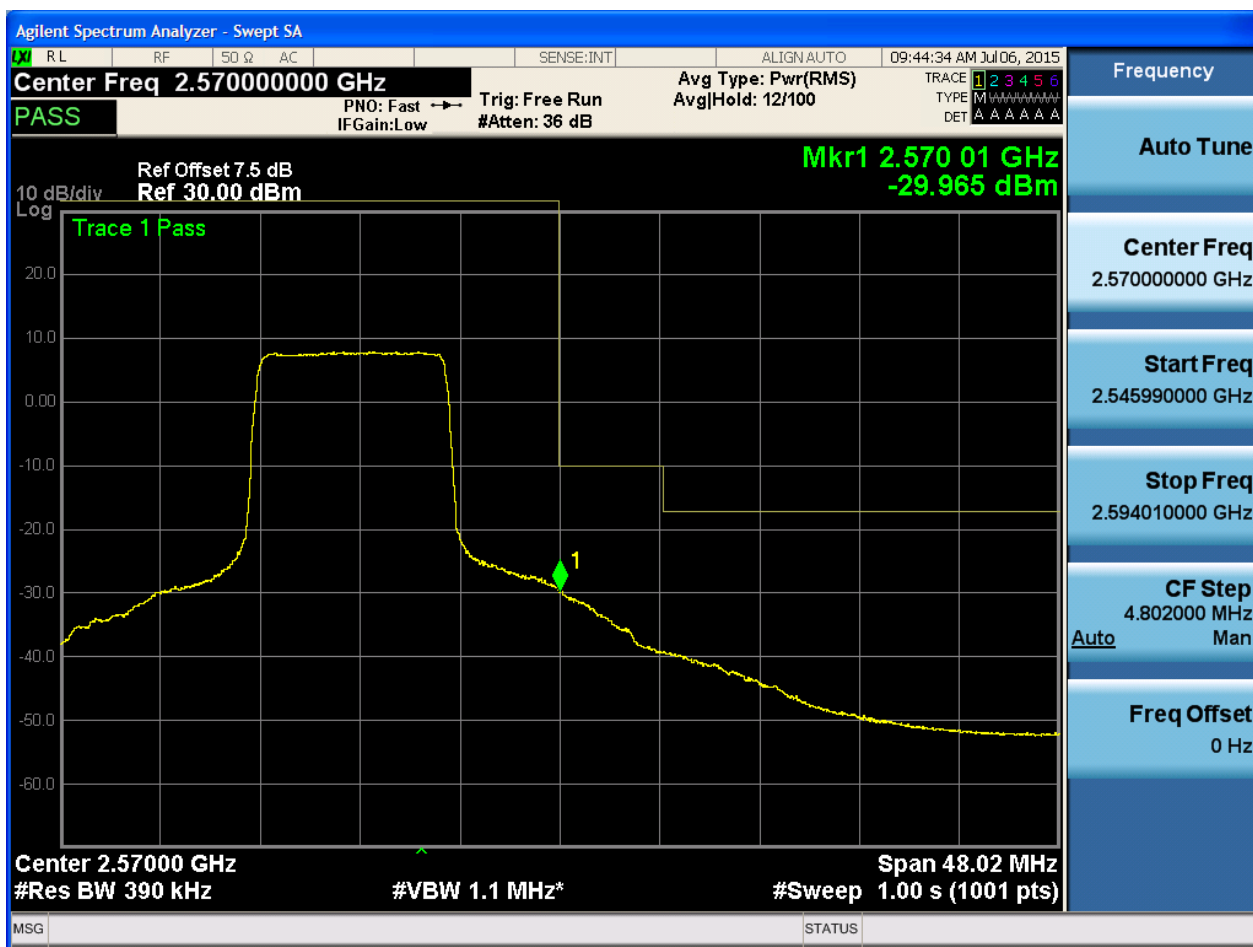


5.1.1.2.4.2.2 Test RB = RB1#99





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

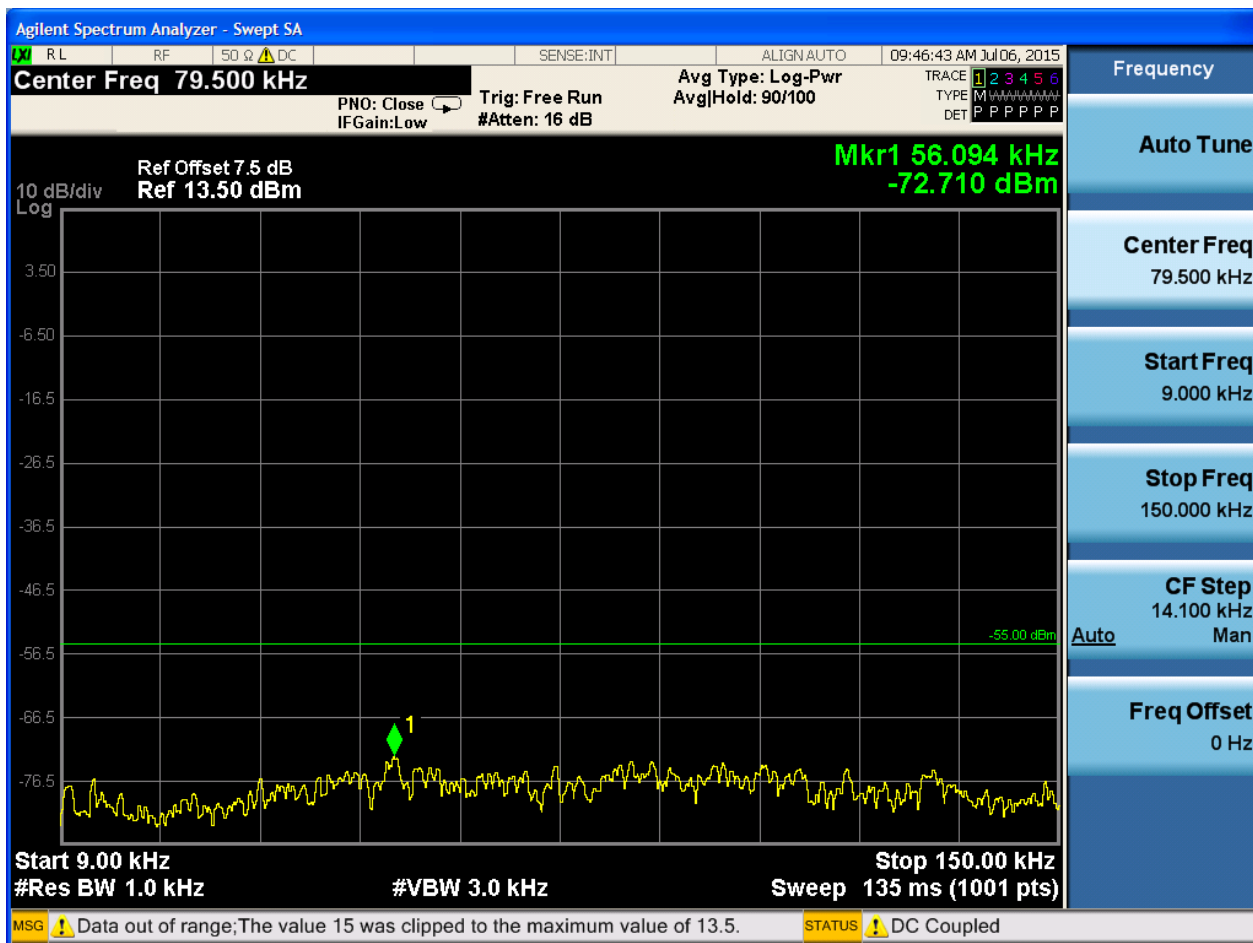
6.1.1 Test Band = BAND7

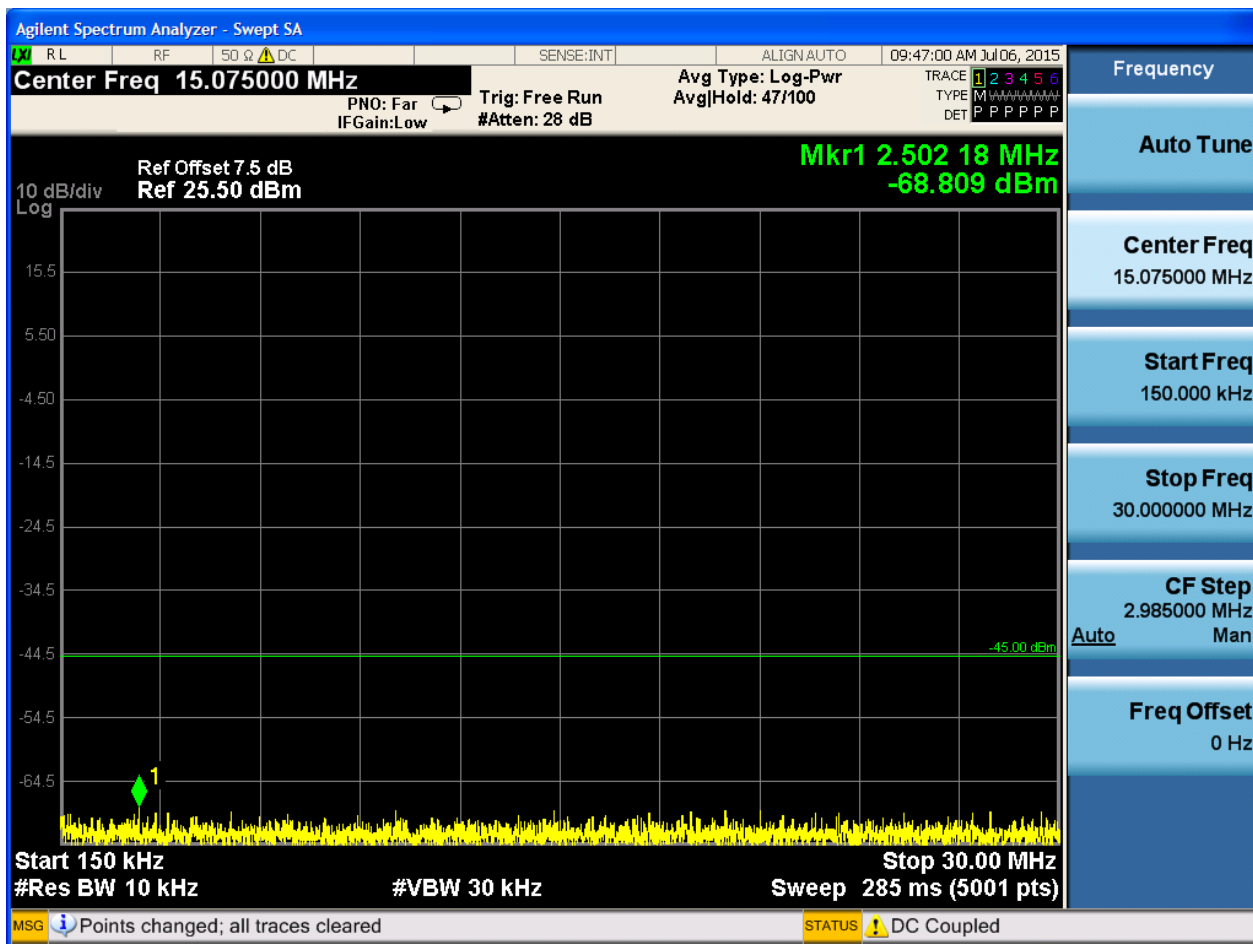
6.1.1.1 Test Mode = LTE/TM1

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

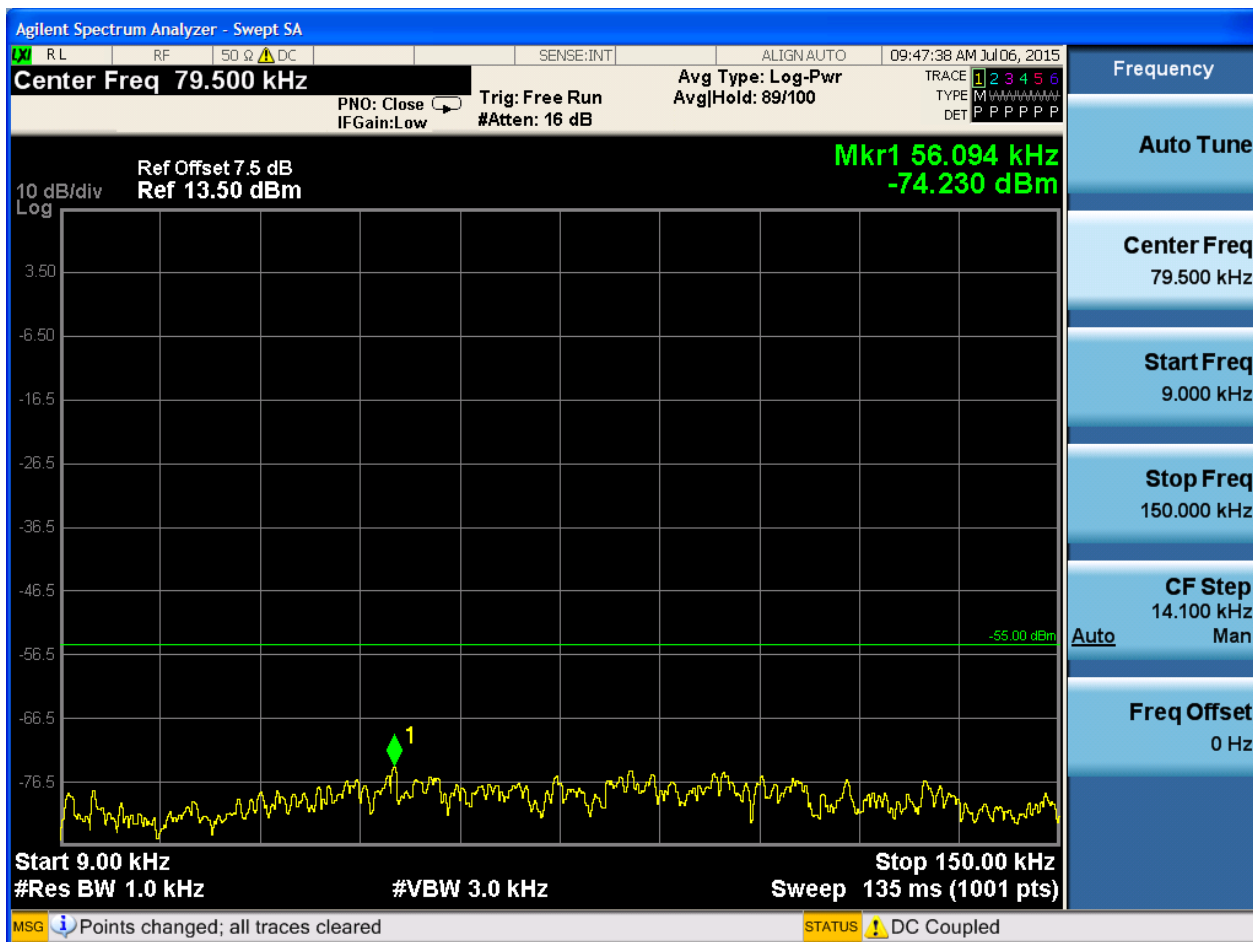


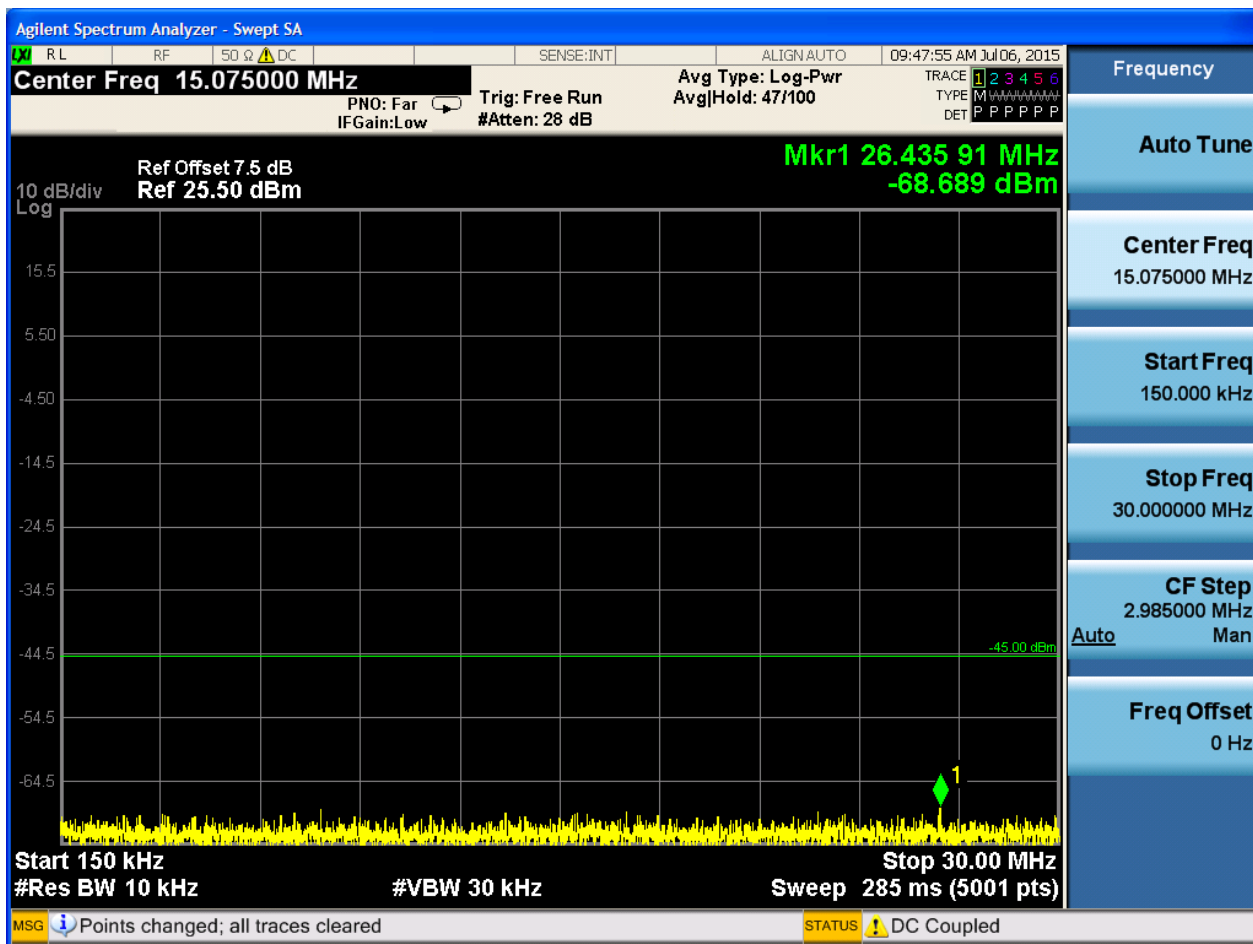


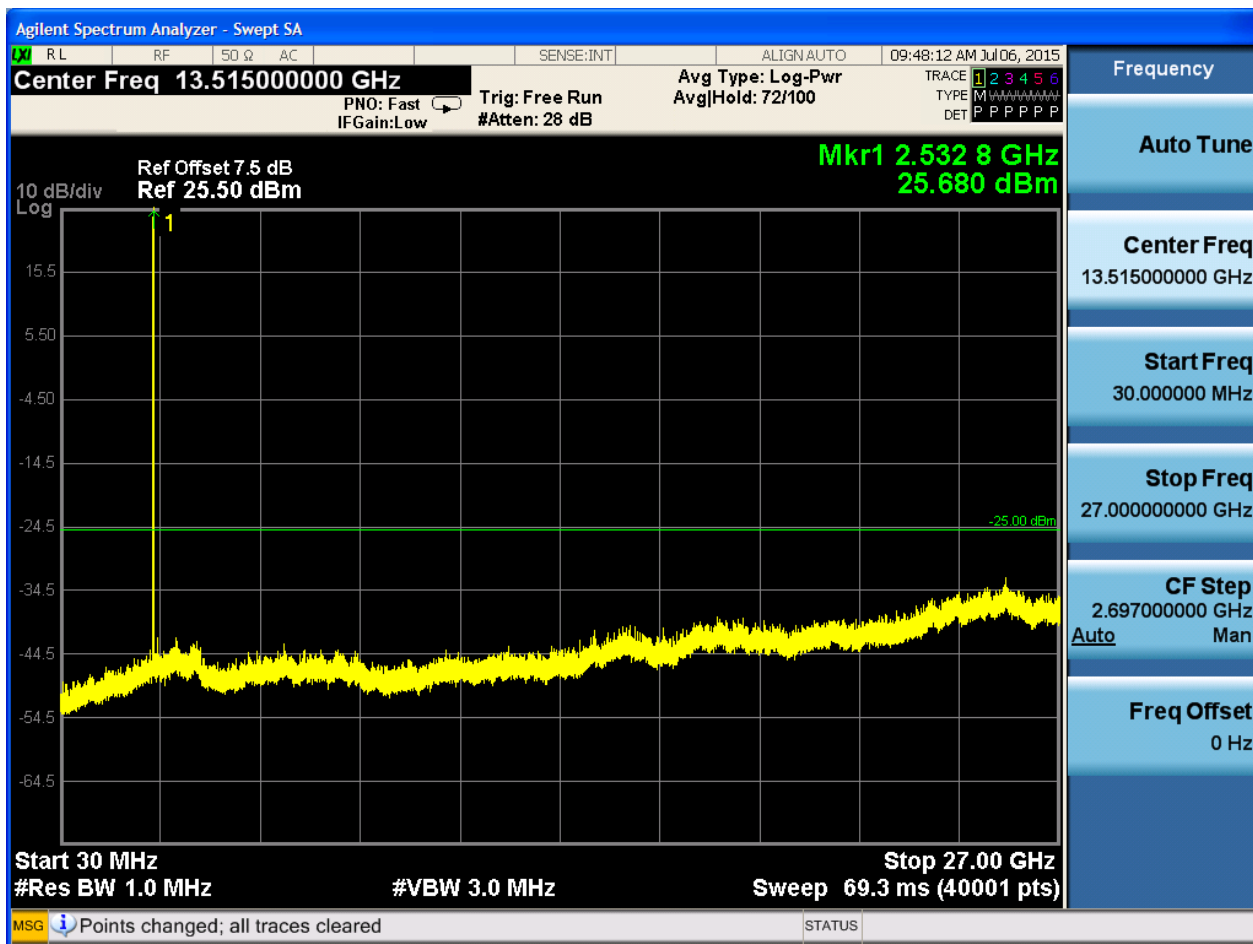


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



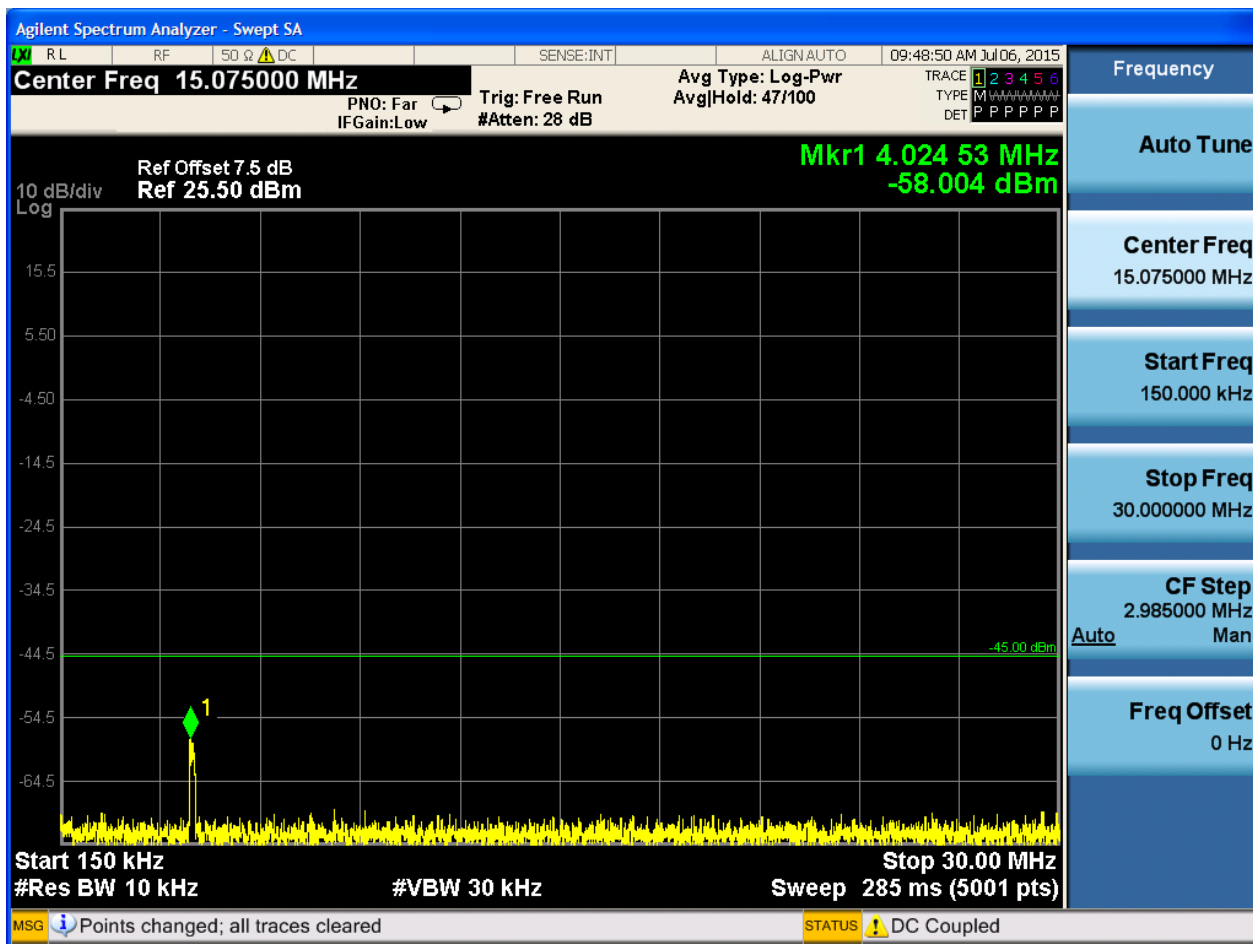


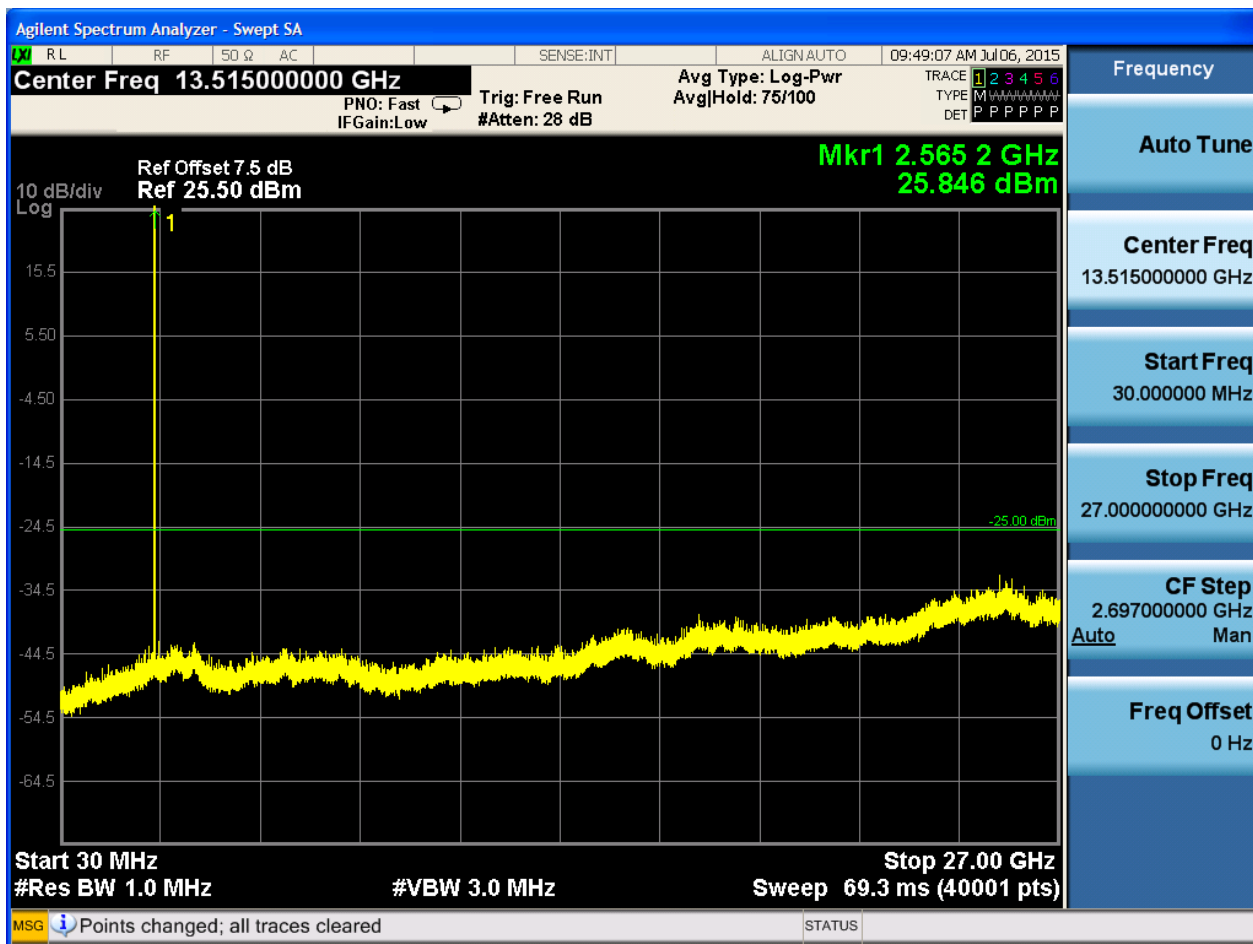


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0









6.1.1.1.2.1.1 Test RB = RB1#0

