



Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	21.91	20.01	33	PASS
				RB1#13	21.78	19.79	33	PASS
				RB1#24	21.74	20.09	33	PASS
				RB12#0	20.47	18.64	33	PASS
				RB12#6	20.47	18.55	33	PASS
				RB12#13	20.29	18.57	33	PASS
				RB25#0	20.35	18.42	33	PASS
			MCH	RB1#0	22.07	20.20	33	PASS
				RB1#13	22.05	20.18	33	PASS
				RB1#24	21.97	20.31	33	PASS
				RB12#0	20.78	19.14	33	PASS
				RB12#6	20.85	18.94	33	PASS
				RB12#13	20.61	18.82	33	PASS
				RB25#0	20.69	18.87	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.2	20.23	33	PASS
				RB1#13	22.02	20.22	33	PASS
				RB1#24	21.89	20.05	33	PASS
				RB12#0	20.74	18.86	33	PASS
				RB12#6	20.77	19.17	33	PASS
				RB12#13	20.56	18.80	33	PASS
				RB25#0	20.64	18.73	33	PASS
		10	LCH	RB1#0	21.71	19.93	33	PASS
				RB1#25	21.87	20.20	33	PASS
				RB1#49	21.89	20.23	33	PASS
				RB25#0	20.35	18.72	33	PASS
				RB25#13	20.49	18.73	33	PASS
				RB25#25	20.38	18.68	33	PASS
				RB50#0	20.5	18.52	33	PASS
			MCH	RB1#0	22	20.25	33	PASS
				RB1#25	22.02	20.35	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#49	22.01	20.23	33	PASS
				RB25#0	20.49	18.56	33	PASS
				RB25#13	20.56	18.83	33	PASS
				RB25#25	20.56	18.70	33	PASS
				RB50#0	20.64	18.86	33	PASS
			HCH	RB1#0	22.28	20.64	33	PASS
				RB1#25	22.02	20.25	33	PASS
				RB1#49	21.86	20.17	33	PASS
				RB25#0	20.77	18.90	33	PASS
				RB25#13	20.76	19.11	33	PASS
				RB25#25	20.58	18.91	33	PASS
				RB50#0	20.65	18.71	33	PASS
		15	LCH	RB1#0	21.41	19.43	33	PASS
				RB1#38	21.99	20.10	33	PASS
				RB1#74	21.99	20.07	33	PASS
				RB36#0	20.38	18.64	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB36#18	20.49	18.61	33	PASS
				RB36#39	20.61	18.76	33	PASS
				RB75#0	20.48	18.58	33	PASS
			MCH	RB1#0	21.79	20.13	33	PASS
				RB1#38	21.92	20.05	33	PASS
				RB1#74	21.83	20.15	33	PASS
				RB36#0	20.42	18.73	33	PASS
				RB36#18	20.56	18.70	33	PASS
				RB36#39	20.5	18.80	33	PASS
				RB75#0	20.57	18.69	33	PASS
			HCH	RB1#0	22.22	20.59	33	PASS
				RB1#38	22.12	20.13	33	PASS
				RB1#74	21.55	19.76	33	PASS
				RB36#0	20.77	19.06	33	PASS
				RB36#18	20.76	18.90	33	PASS
				RB36#39	20.5	18.64	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
		20		RB75#0	20.7	18.94	33	PASS
				RB1#0	21.59	19.84	33	PASS
				RB1#50	22	20.34	33	PASS
				RB1#99	22.11	20.42	33	PASS
				RB50#0	20.32	18.67	33	PASS
				RB50#25	20.65	19.04	33	PASS
				RB50#50	20.71	19.02	33	PASS
				RB100#0	20.53	18.92	33	PASS
			MCH	RB1#0	21.98	20.04	33	PASS
				RB1#50	21.93	20.02	33	PASS
				RB1#99	22.02	20.26	33	PASS
				RB50#0	20.5	18.75	33	PASS
				RB50#25	20.53	18.89	33	PASS
				RB50#50	20.65	18.72	33	PASS
				RB100#0	20.63	18.80	33	PASS
			HCH	RB1#0	22.39	20.77	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#50	22.23	20.31	33	PASS
				RB1#99	21.66	19.80	33	PASS
				RB50#0	20.96	19.12	33	PASS
				RB50#25	20.9	19.02	33	PASS
				RB50#50	20.58	18.60	33	PASS
				RB100#0	20.86	19.02	33	PASS
	LTE/TM2	5	LCH	RB1#0	20.63	18.70	33	PASS
				RB1#13	20.5	18.59	33	PASS
				RB1#24	20.5	18.59	33	PASS
				RB12#0	20.26	18.31	33	PASS
				RB12#6	20.28	18.58	33	PASS
				RB12#13	20.1	18.23	33	PASS
				RB25#0	20.16	18.31	33	PASS
			MCH	RB1#0	20.77	18.79	33	PASS
				RB1#13	20.55	18.56	33	PASS
				RB1#24	20.56	18.95	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB12#0	20.39	18.77	33	PASS
				RB12#6	20.47	18.81	33	PASS
				RB12#13	20.42	18.46	33	PASS
				RB25#0	20.27	18.47	33	PASS
			HCH	RB1#0	20.88	19.18	33	PASS
				RB1#13	20.83	19.22	33	PASS
				RB1#24	20.61	18.89	33	PASS
				RB12#0	20.52	18.58	33	PASS
				RB12#6	20.56	18.62	33	PASS
				RB12#13	20.33	18.68	33	PASS
				RB25#0	20.42	18.42	33	PASS
		10	LCH	RB1#0	20.3	18.37	33	PASS
				RB1#25	20.45	18.79	33	PASS
				RB1#49	20.48	18.70	33	PASS
				RB25#0	20.15	18.17	33	PASS
				RB25#13	20.33	18.35	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#25	20.22	18.32	33	PASS
				RB50#0	20.29	18.69	33	PASS
			MCH	RB1#0	20.75	18.84	33	PASS
				RB1#25	20.59	18.89	33	PASS
				RB1#49	20.56	18.89	33	PASS
				RB25#0	20.3	18.32	33	PASS
				RB25#13	20.37	18.57	33	PASS
				RB25#25	20.38	18.75	33	PASS
				RB50#0	20.3	18.68	33	PASS
			HCH	RB1#0	20.99	19.07	33	PASS
				RB1#25	20.94	19.24	33	PASS
				RB1#49	20.64	19.03	33	PASS
				RB25#0	20.57	18.80	33	PASS
				RB25#13	20.55	18.78	33	PASS
				RB25#25	20.36	18.64	33	PASS
				RB50#0	20.5	18.63	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
		15	LCH	RB1#0	20.16	18.27	33	PASS
				RB1#38	20.53	18.64	33	PASS
				RB1#74	20.49	18.79	33	PASS
				RB36#0	20.18	18.34	33	PASS
				RB36#18	20.32	18.62	33	PASS
				RB36#39	20.44	18.64	33	PASS
				RB75#0	20.35	18.62	33	PASS
			MCH	RB1#0	20.63	18.79	33	PASS
				RB1#38	20.74	19.08	33	PASS
				RB1#74	20.54	18.74	33	PASS
				RB36#0	20.3	18.34	33	PASS
				RB36#18	20.37	18.73	33	PASS
				RB36#39	20.36	18.73	33	PASS
				RB75#0	20.21	18.50	33	PASS
			HCH	RB1#0	21	19.09	33	PASS
				RB1#38	20.86	19.23	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#74	20.46	18.84	33	PASS
				RB36#0	20.59	18.65	33	PASS
				RB36#18	20.6	18.90	33	PASS
				RB36#39	20.36	18.48	33	PASS
				RB75#0	20.49	18.50	33	PASS
		20	LCH	RB1#0	20.45	18.79	33	PASS
				RB1#50	20.89	18.90	33	PASS
				RB1#99	20.83	19.06	33	PASS
				RB50#0	20.14	18.39	33	PASS
				RB50#25	20.26	18.48	33	PASS
				RB50#50	20.5	18.68	33	PASS
				RB100#0	20.3	18.64	33	PASS
			MCH	RB1#0	20.69	18.73	33	PASS
				RB1#50	20.67	19.03	33	PASS
				RB1#99	20.78	18.79	33	PASS
				RB50#0	20.27	18.53	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#25	20.3	18.37	33	PASS
				RB50#50	20.48	18.81	33	PASS
				RB100#0	20.25	18.29	33	PASS
			HCH	RB1#0	21.18	19.20	33	PASS
				RB1#50	21.05	19.37	33	PASS
				RB1#99	20.58	18.70	33	PASS
				RB50#0	20.76	18.89	33	PASS
				RB50#25	20.66	18.96	33	PASS
				RB50#50	20.34	18.54	33	PASS
				RB100#0	20.62	18.82	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:

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

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

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

SET Sweep time = auto - couple.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	4.28	13	PASS
				RB1#13	4.31	13	PASS
				RB1#24	4.24	13	PASS
				RB12#0	5.12	13	PASS
				RB12#6	5	13	PASS
				RB12#13	5.13	13	PASS
				RB25#0	5.59	13	PASS
			MCH	RB1#0	4.11	13	PASS
				RB1#13	3.99	13	PASS
				RB1#24	4.23	13	PASS
				RB12#0	5.04	13	PASS
				RB12#6	4.89	13	PASS
				RB12#13	5.14	13	PASS
				RB25#0	5.77	13	PASS
			HCH	RB1#0	4.57	13	PASS
				RB1#13	3.95	13	PASS
				RB1#24	4.13	13	PASS
				RB12#0	4.79	13	PASS
				RB12#6	4.64	13	PASS
				RB12#13	4.88	13	PASS
				RB25#0	5.52	13	PASS
		10	LCH	RB1#0	4.11	13	PASS
				RB1#25	4.12	13	PASS
				RB1#49	3.92	13	PASS
				RB25#0	5.07	13	PASS
				RB25#13	4.88	13	PASS
				RB25#25	5.08	13	PASS
				RB50#0	5.55	13	PASS
			MCH	RB1#0	4.21	13	PASS
				RB1#25	4.03	13	PASS
				RB1#49	4.29	13	PASS
				RB25#0	5.07	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	4.98	13	PASS
				RB25#25	5.19	13	PASS
				RB50#0	5.98	13	PASS
			HCH	RB1#0	3.8	13	PASS
				RB1#25	3.89	13	PASS
				RB1#49	4.07	13	PASS
				RB25#0	4.85	13	PASS
				RB25#13	4.77	13	PASS
				RB25#25	4.96	13	PASS
				RB50#0	5.16	13	PASS
		15	LCH	RB1#0	4.12	13	PASS
				RB1#38	4.01	13	PASS
				RB1#74	3.9	13	PASS
				RB36#0	5.08	13	PASS
				RB36#18	4.81	13	PASS
				RB36#39	5.02	13	PASS
				RB75#0	5.58	13	PASS
			MCH	RB1#0	4.62	13	PASS
				RB1#38	4.12	13	PASS
				RB1#74	4.14	13	PASS
				RB36#0	5.07	13	PASS
				RB36#18	5.08	13	PASS
				RB36#39	5.09	13	PASS
				RB75#0	5.72	13	PASS
			HCH	RB1#0	3.75	13	PASS
				RB1#38	3.89	13	PASS
				RB1#74	4.2	13	PASS
				RB36#0	4.75	13	PASS
				RB36#18	4.65	13	PASS
				RB36#39	4.94	13	PASS
				RB75#0	5.37	13	PASS
		20	LCH	RB1#0	4.25	13	PASS
				RB1#50	3.87	13	PASS
				RB1#99	4.05	13	PASS
				RB50#0	5.02	13	PASS
				RB50#25	4.93	13	PASS
				RB50#50	4.94	13	PASS
				RB100#0	5.71	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.26	13	PASS
				RB1#50	4.1	13	PASS
				RB1#99	4.06	13	PASS
				RB50#0	4.99	13	PASS
				RB50#25	5.03	13	PASS
				RB50#50	5.26	13	PASS
				RB100#0	5.88	13	PASS
			HCH	RB1#0	4.15	13	PASS
				RB1#50	3.9	13	PASS
				RB1#99	4.67	13	PASS
				RB50#0	4.73	13	PASS
				RB50#25	4.6	13	PASS
				RB50#50	4.96	13	PASS
				RB100#0	5.19	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.53	13	PASS
				RB1#13	4.46	13	PASS
				RB1#24	4.59	13	PASS
				RB12#0	5.26	13	PASS
				RB12#6	4.99	13	PASS
				RB12#13	5.21	13	PASS
				RB25#0	5.94	13	PASS
			MCH	RB1#0	4.72	13	PASS
				RB1#13	4.4	13	PASS
				RB1#24	4.56	13	PASS
				RB12#0	5.24	13	PASS
				RB12#6	4.99	13	PASS
				RB12#13	5.29	13	PASS
				RB25#0	6.07	13	PASS
		10	HCH	RB1#0	4.49	13	PASS
				RB1#13	4.44	13	PASS
				RB1#24	4.4	13	PASS
				RB12#0	4.98	13	PASS
				RB12#6	4.78	13	PASS
				RB12#13	4.98	13	PASS
				RB25#0	5.81	13	PASS
			LCH	RB1#0	4.71	13	PASS
				RB1#25	4.63	13	PASS
				RB1#49	4.7	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.23	13	PASS
				RB25#13	4.99	13	PASS
				RB25#25	5.17	13	PASS
				RB50#0	6	13	PASS
			MCH	RB1#0	4.72	13	PASS
				RB1#25	4.79	13	PASS
				RB1#49	5.02	13	PASS
				RB25#0	5.3	13	PASS
				RB25#13	5.31	13	PASS
				RB25#25	5.42	13	PASS
				RB50#0	5.79	13	PASS
			HCH	RB1#0	4.42	13	PASS
				RB1#25	4.41	13	PASS
				RB1#49	4.47	13	PASS
				RB25#0	4.88	13	PASS
				RB25#13	4.92	13	PASS
				RB25#25	5.09	13	PASS
				RB50#0	5.7	13	PASS
		15	LCH	RB1#0	5.21	13	PASS
				RB1#38	4.5	13	PASS
				RB1#74	4.61	13	PASS
				RB36#0	5.21	13	PASS
				RB36#18	5.01	13	PASS
				RB36#39	5.12	13	PASS
				RB75#0	5.83	13	PASS
			MCH	RB1#0	4.94	13	PASS
				RB1#38	4.58	13	PASS
				RB1#74	4.73	13	PASS
				RB36#0	5.17	13	PASS
				RB36#18	5.12	13	PASS
				RB36#39	5.27	13	PASS
				RB75#0	5.93	13	PASS
			HCH	RB1#0	4.92	13	PASS
				RB1#38	4.34	13	PASS
				RB1#74	5.04	13	PASS
				RB36#0	4.9	13	PASS
				RB36#18	4.83	13	PASS
				RB36#39	5.12	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB75#0	5.63	13	PASS
		20	LCH	RB1#0	5.8	13	PASS
				RB1#50	4.31	13	PASS
				RB1#99	4.97	13	PASS
				RB50#0	5.19	13	PASS
				RB50#25	5.06	13	PASS
				RB50#50	5.12	13	PASS
				RB100#0	6	13	PASS
			MCH	RB1#0	4.55	13	PASS
				RB1#50	4.5	13	PASS
				RB1#99	4.64	13	PASS
				RB50#0	5.14	13	PASS
				RB50#25	5.18	13	PASS
				RB50#50	5.41	13	PASS
				RB100#0	5.89	13	PASS
			HCH	RB1#0	4.15	13	PASS
				RB1#50	4.35	13	PASS
				RB1#99	4.37	13	PASS
				RB50#0	4.84	13	PASS
				RB50#25	4.77	13	PASS
				RB50#50	5.12	13	PASS
				RB100#0	5.62	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

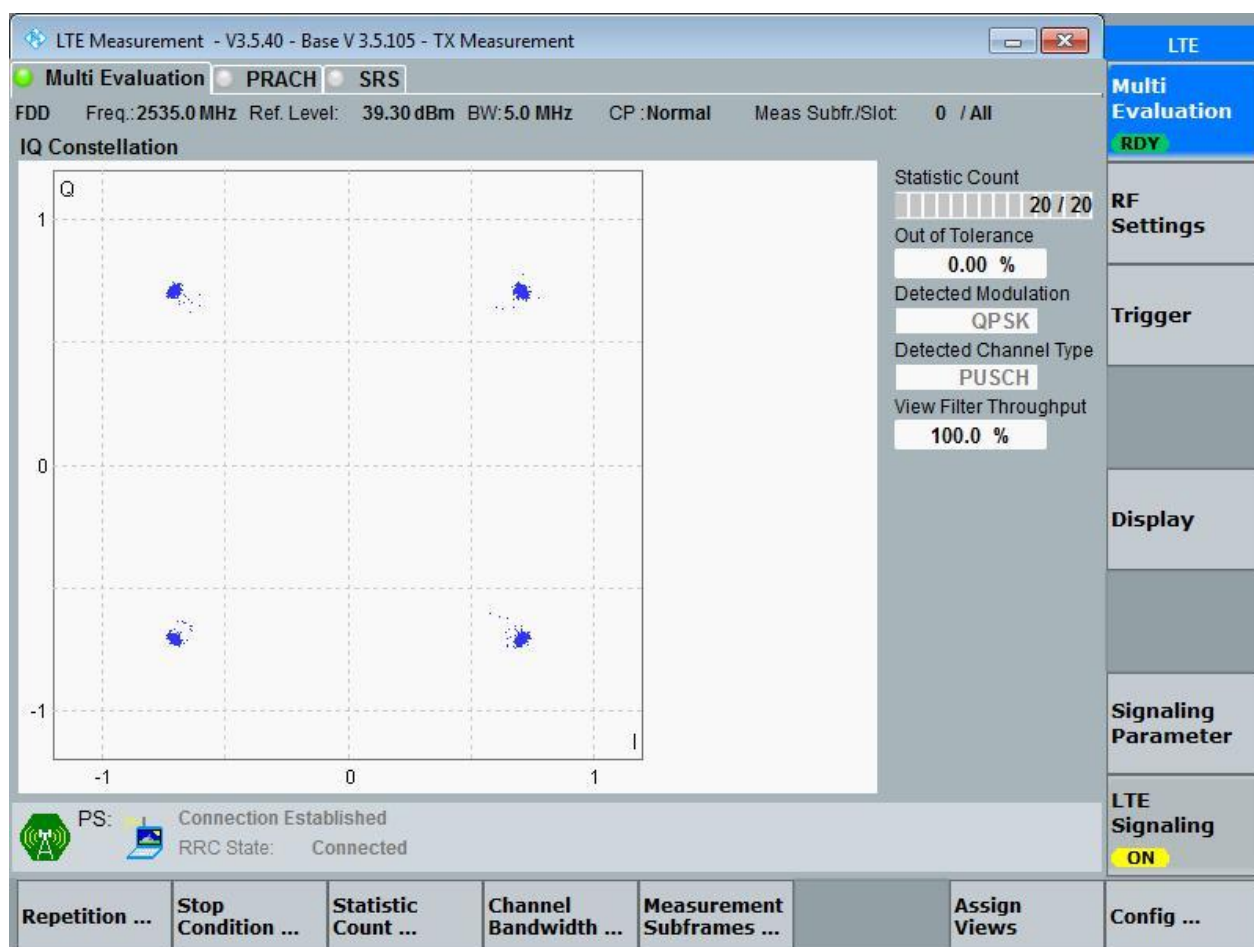
3.1.1 Test Band = BAND7

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

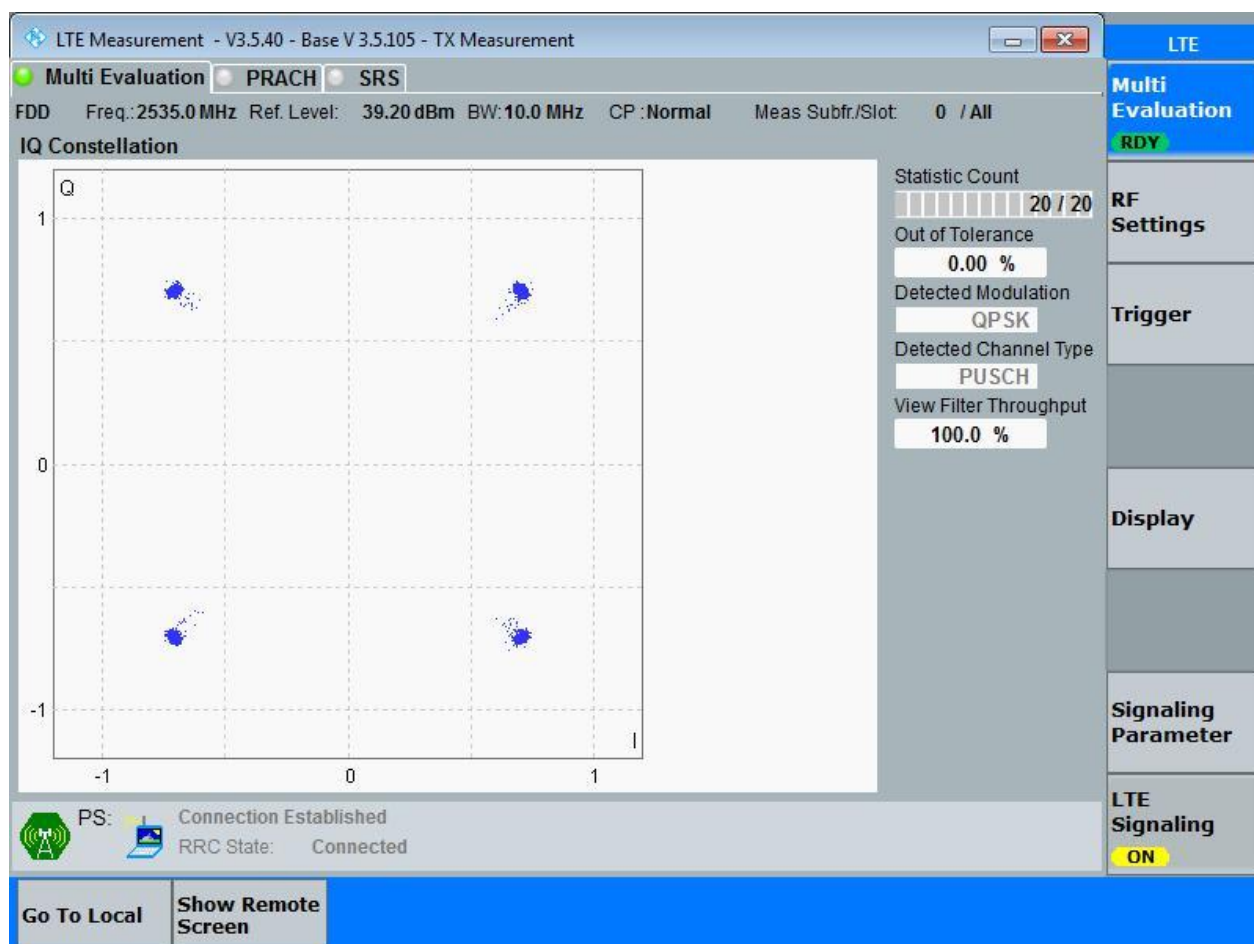
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

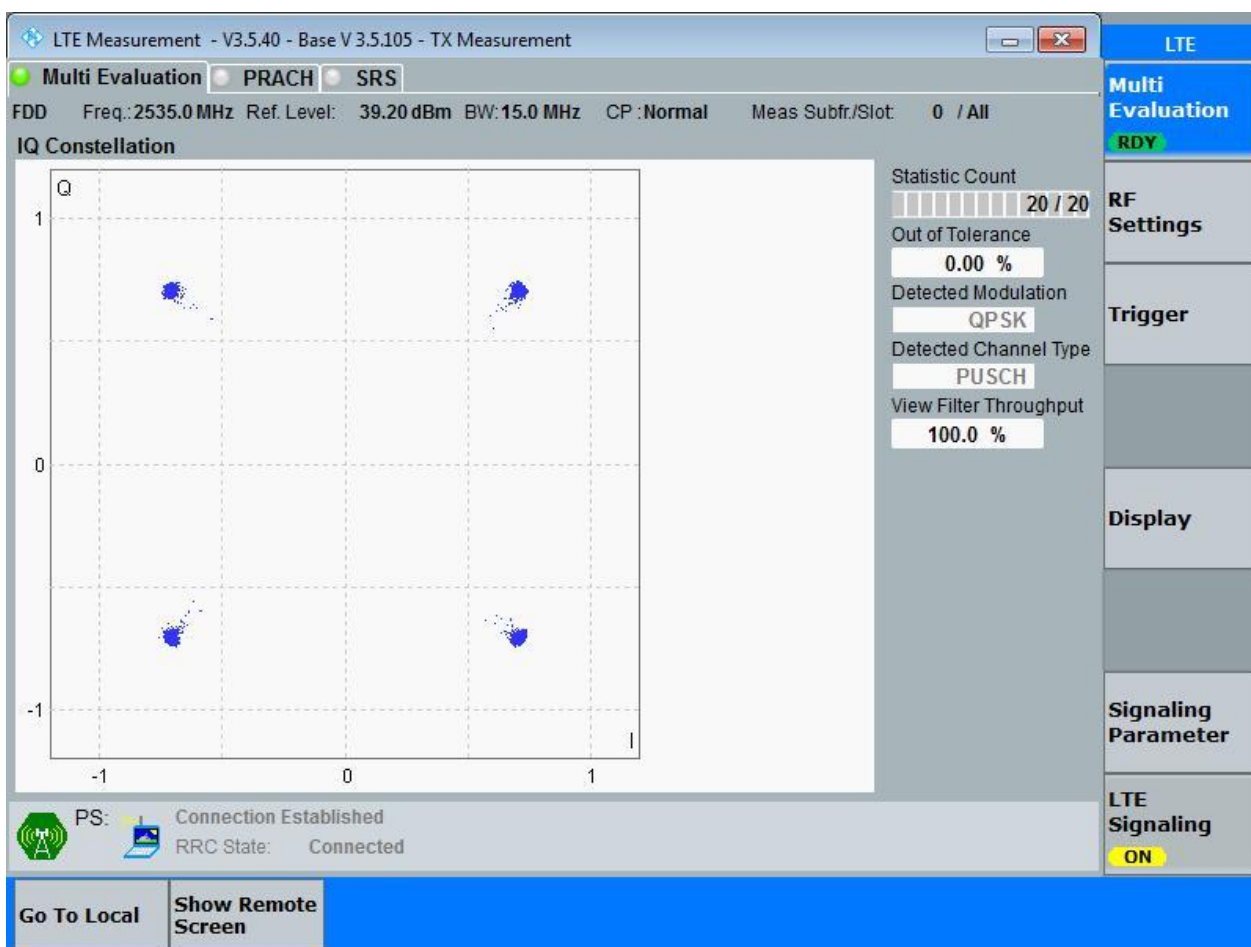
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

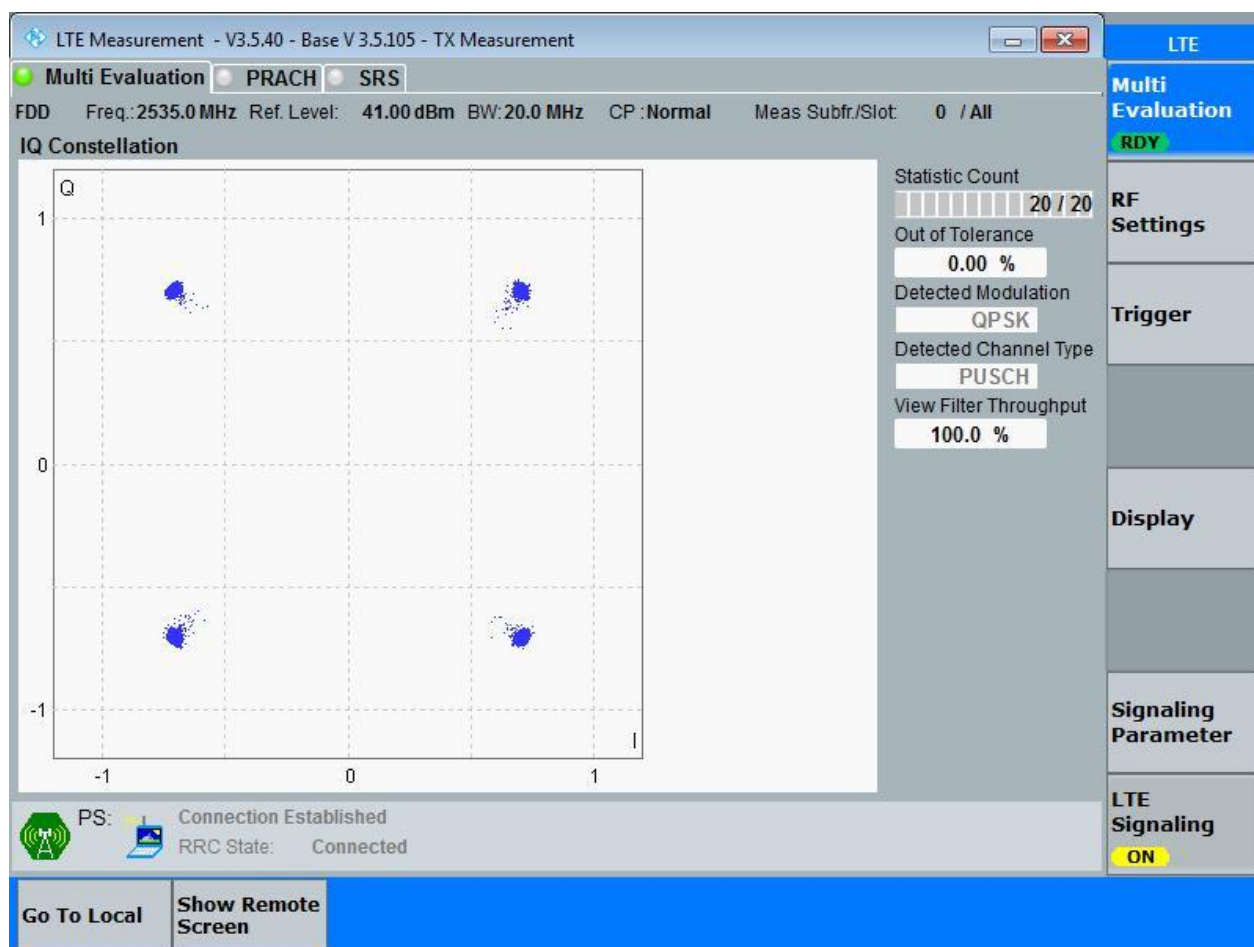
3.1.1.1.3.1.1 Test RB = RB75#0



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

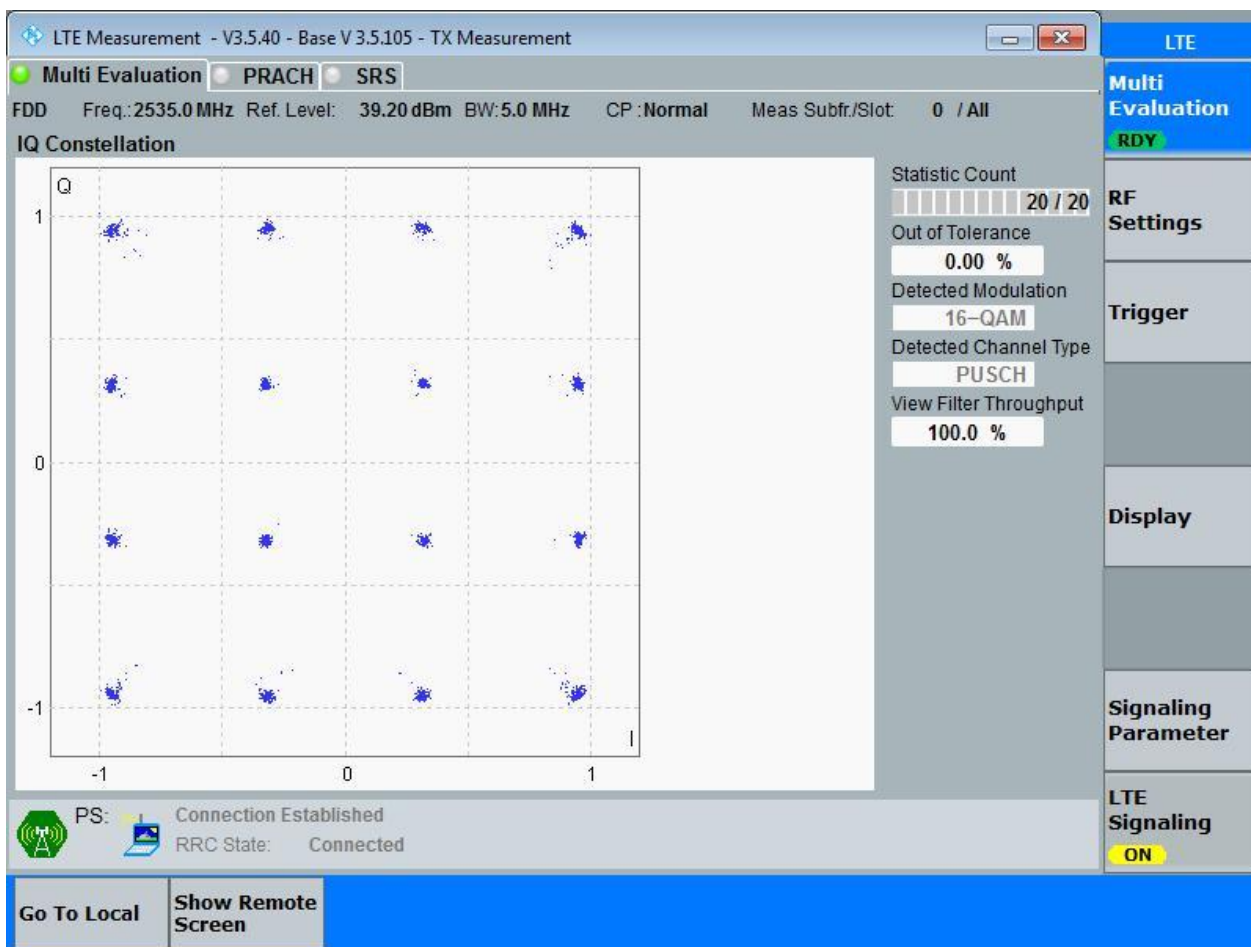


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

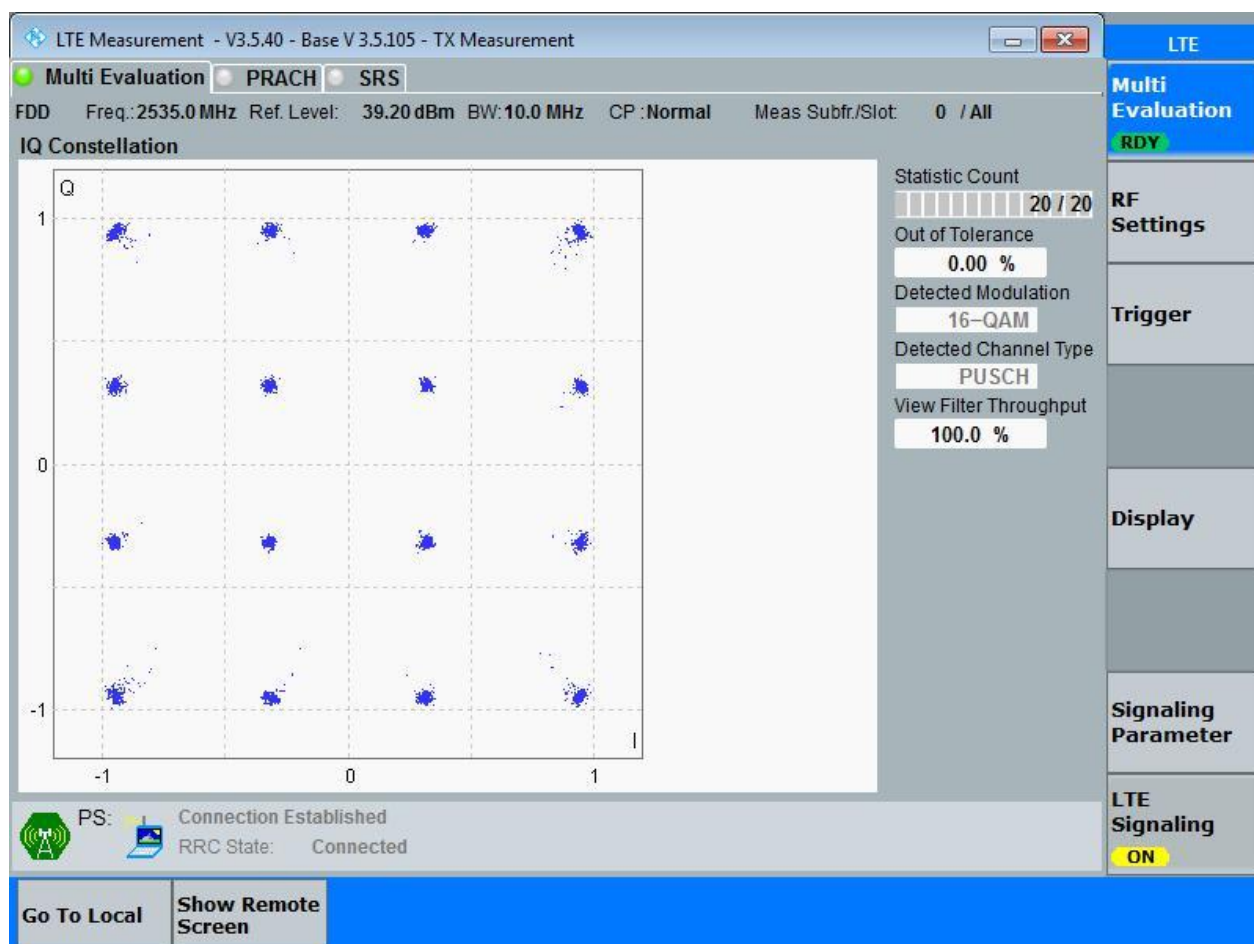
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

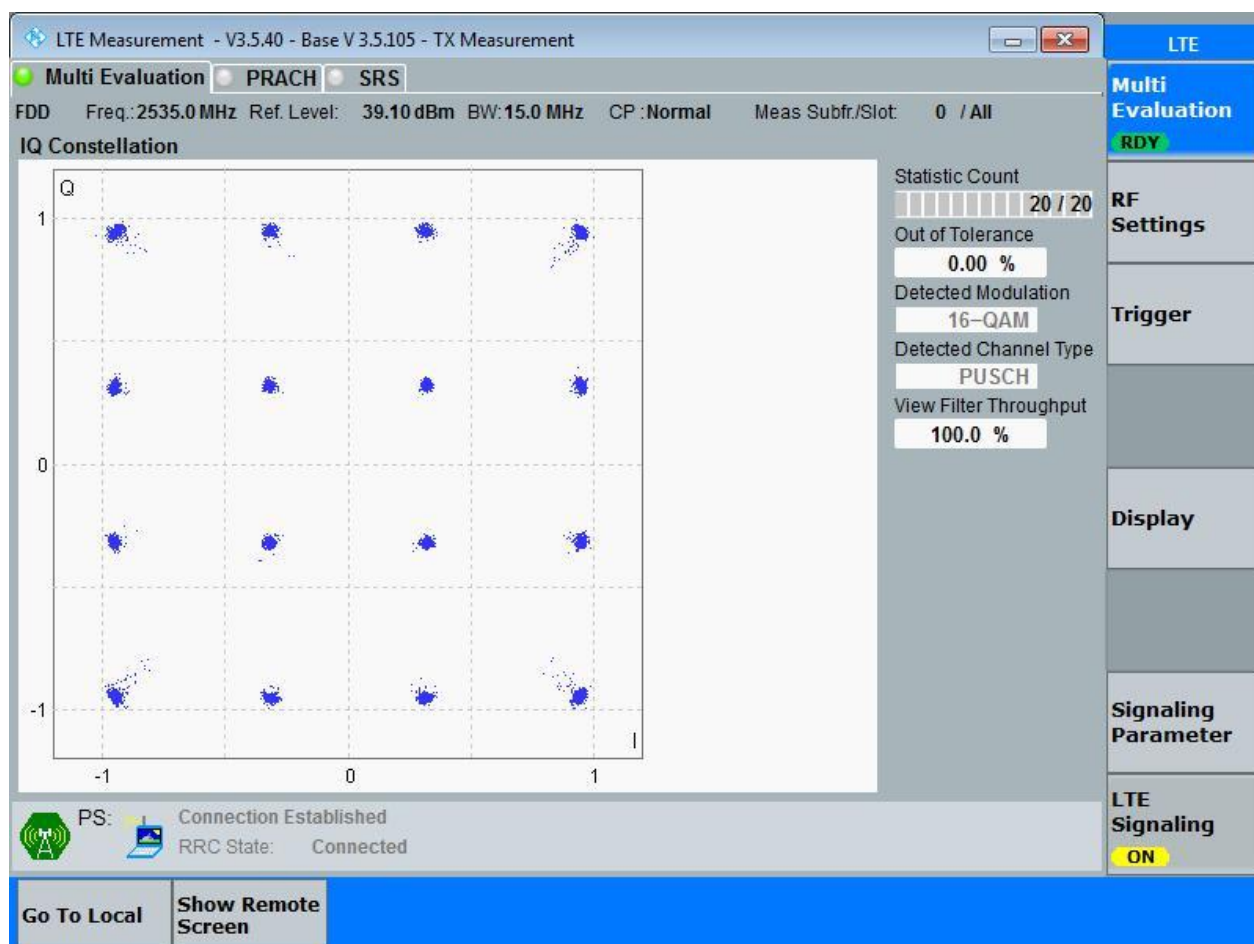
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

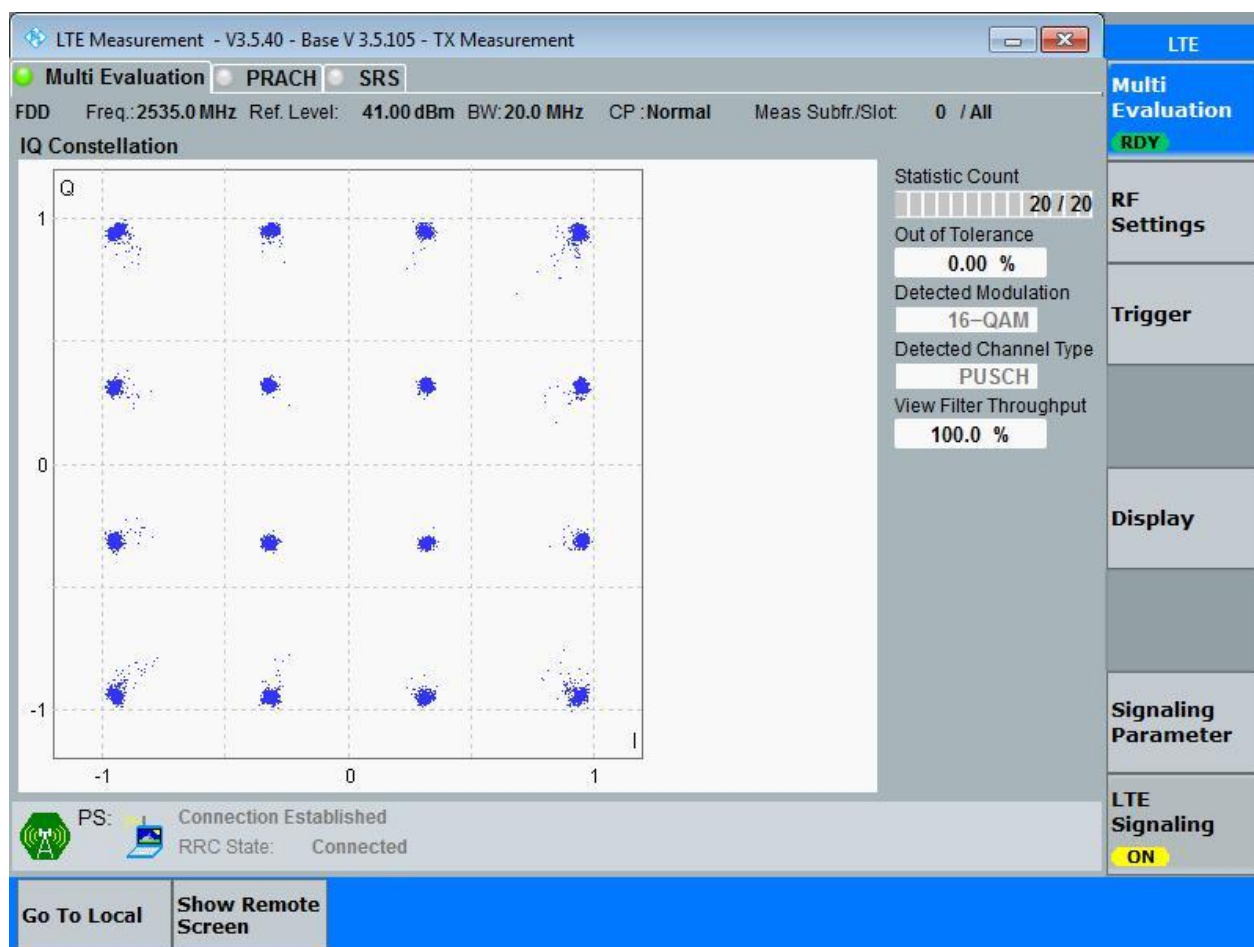
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.53	5.37	Pass
			MCH	RB25#0	4.51	5.14	Pass
			HCH	RB25#0	4.51	4.97	Pass
		10	LCH	RB50#0	8.99	9.97	Pass
			MCH	RB50#0	9.00	9.90	Pass
			HCH	RB50#0	9.00	10.06	Pass
		15	LCH	RB75#0	13.50	15.07	Pass
			MCH	RB75#0	13.53	16.04	Pass
			HCH	RB75#0	13.56	17.53	Pass
		20	LCH	RB100#0	18.00	21.17	Pass
			MCH	RB100#0	18.11	24.69	Pass
			HCH	RB100#0	18.12	23.25	Pass
	LTE/TM2	5	LCH	RB25#0	4.54	5.95	Pass
			MCH	RB25#0	4.57	6.97	Pass
			HCH	RB25#0	4.58	6.59	Pass
		10	LCH	RB50#0	9.05	11.70	Pass
			MCH	RB50#0	9.10	13.02	Pass
			HCH	RB50#0	9.12	13.28	Pass
		15	LCH	RB75#0	13.57	17.70	Pass
			MCH	RB75#0	13.61	19.83	Pass
			HCH	RB75#0	13.56	18.50	Pass
		20	LCH	RB100#0	18.12	26.65	Pass
			MCH	RB100#0	18.18	27.17	Pass
			HCH	RB100#0	18.14	24.18	Pass



Part II - Test Plots

4.1 For LTE

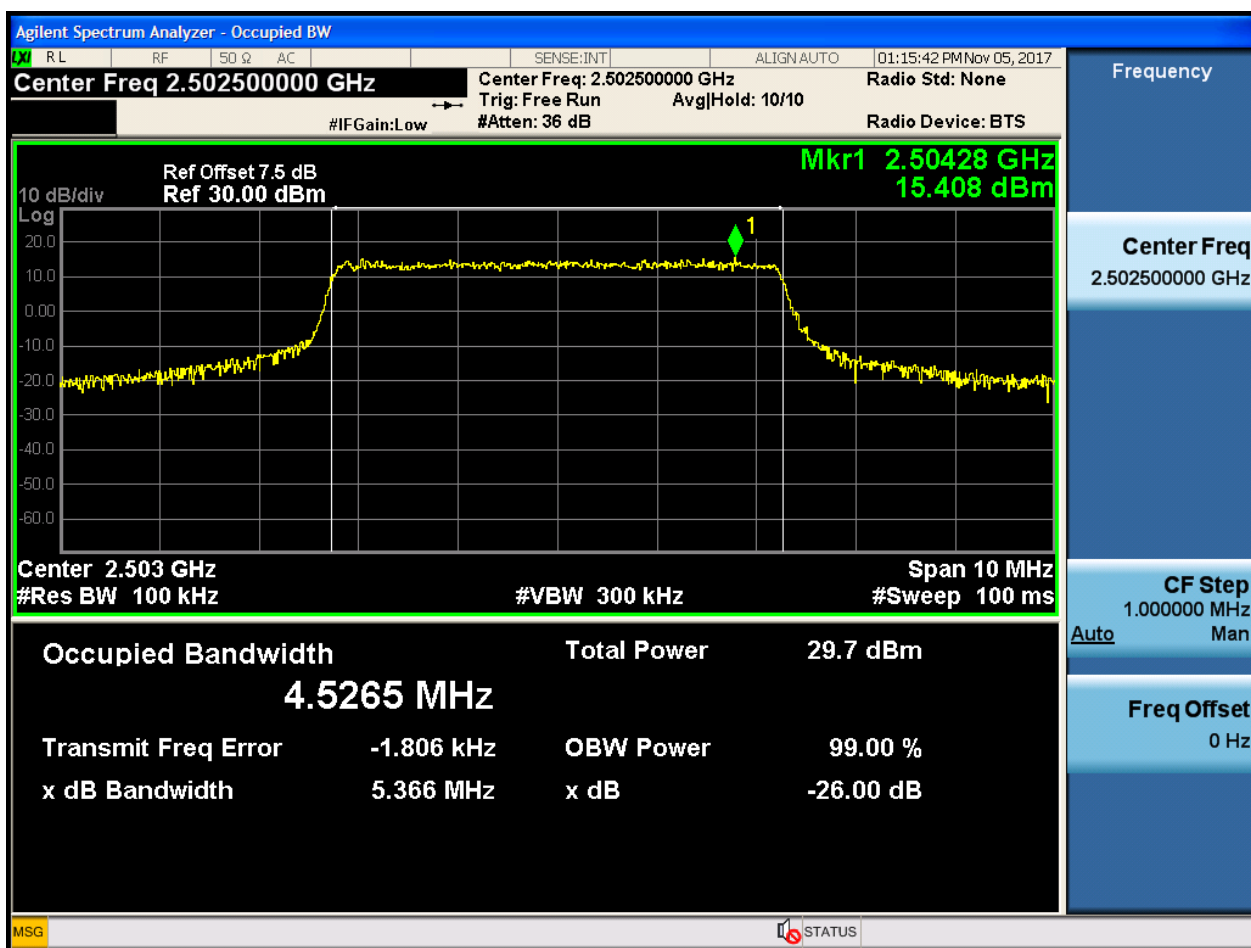
4.1.1 Test Band = BAND7

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

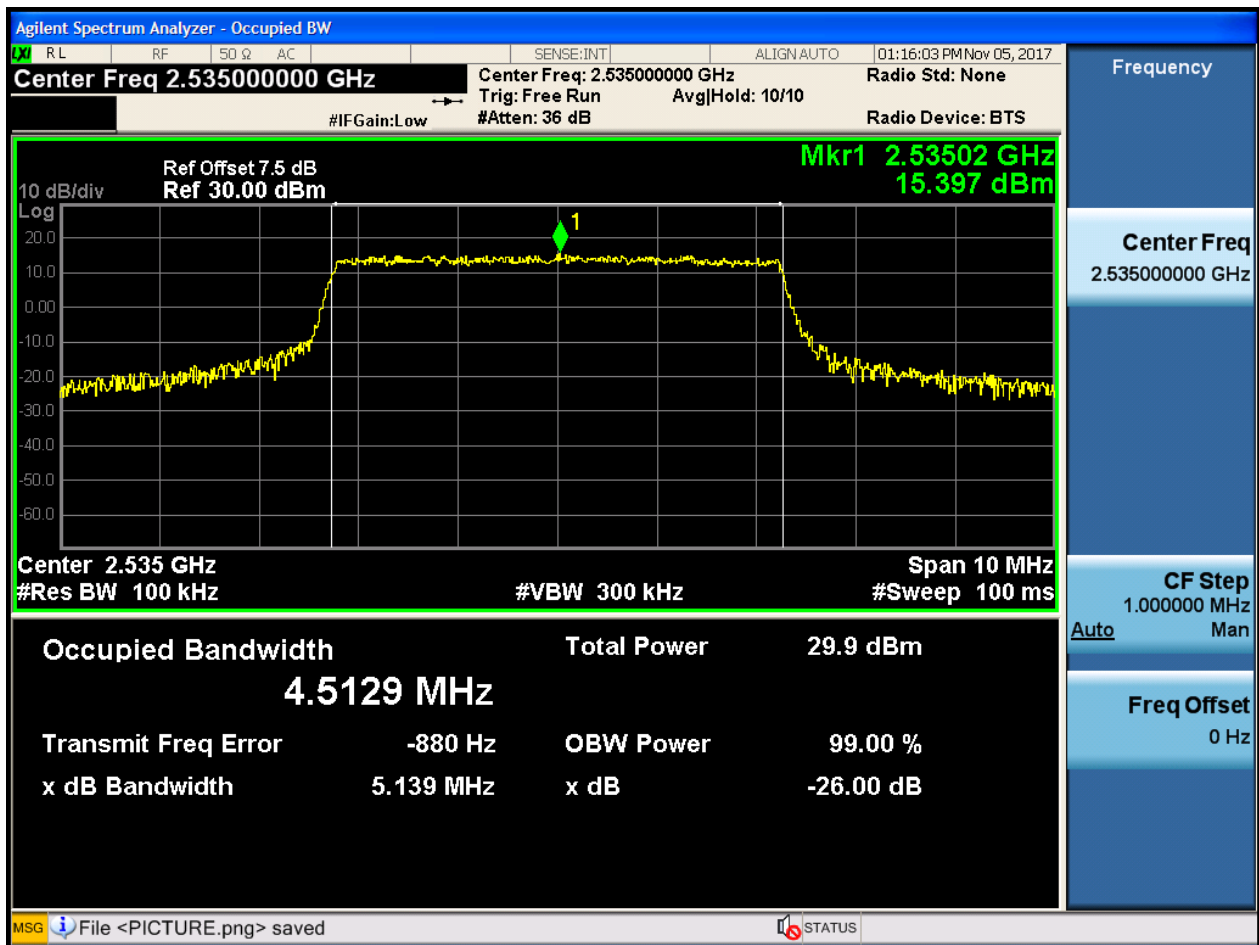
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

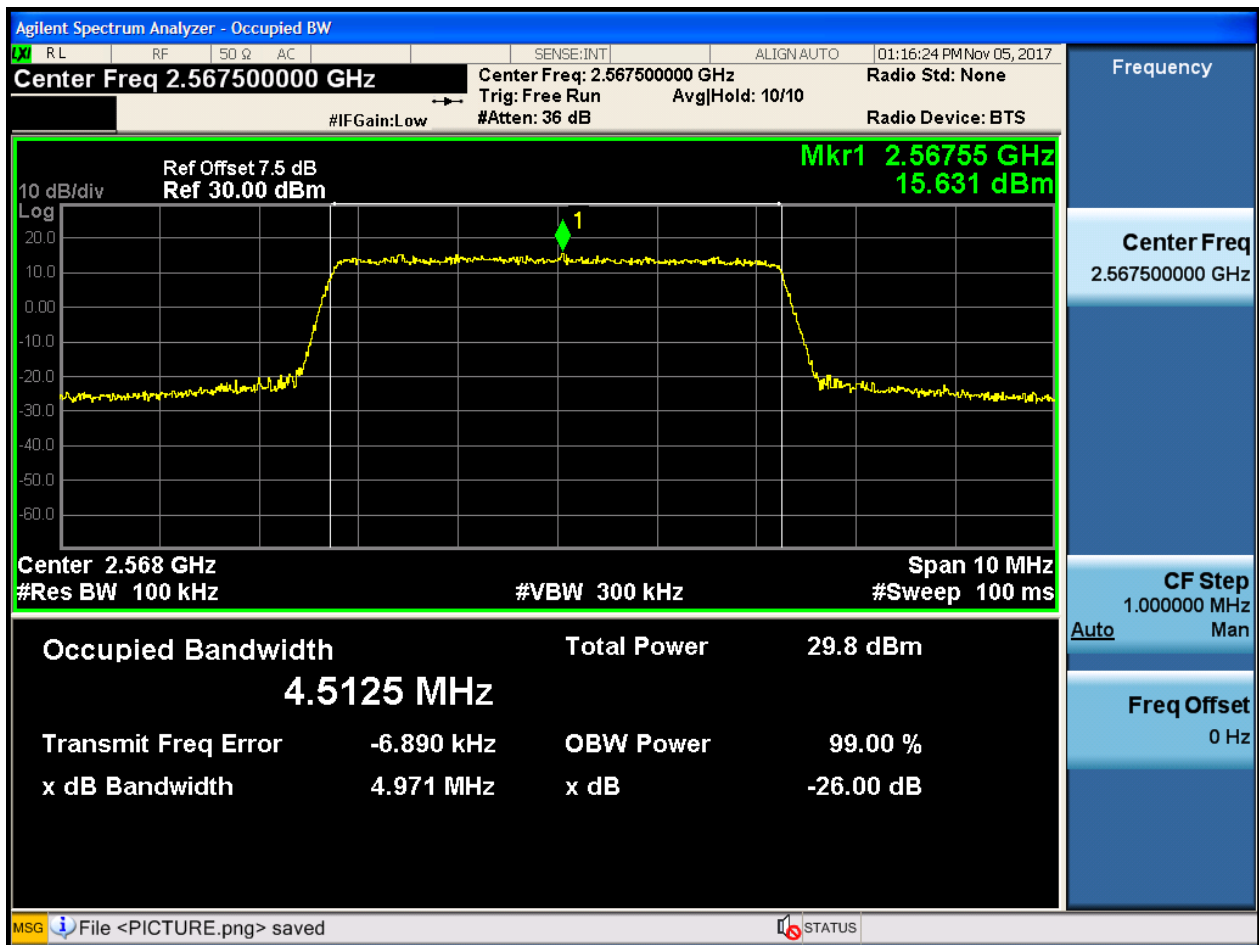
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

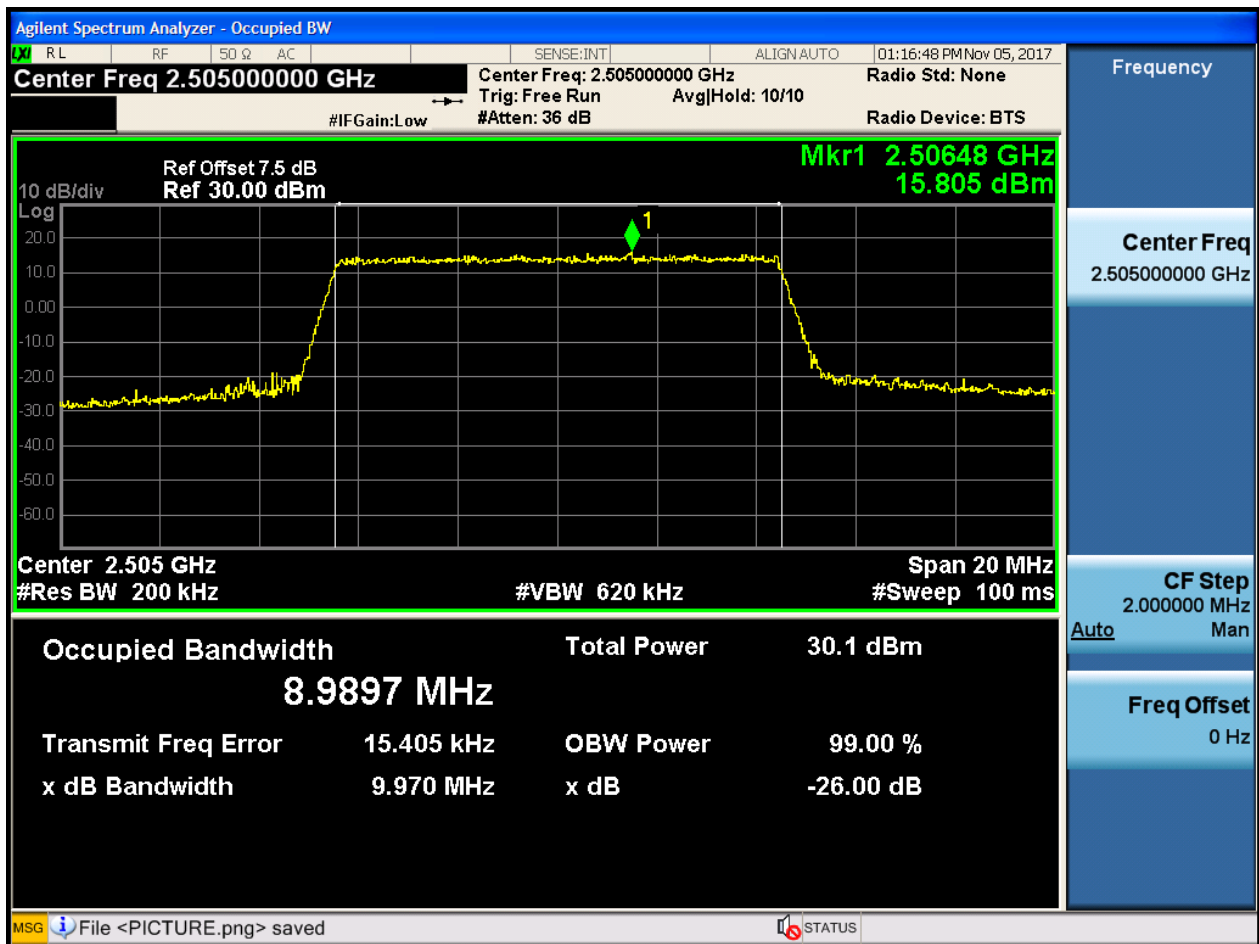




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

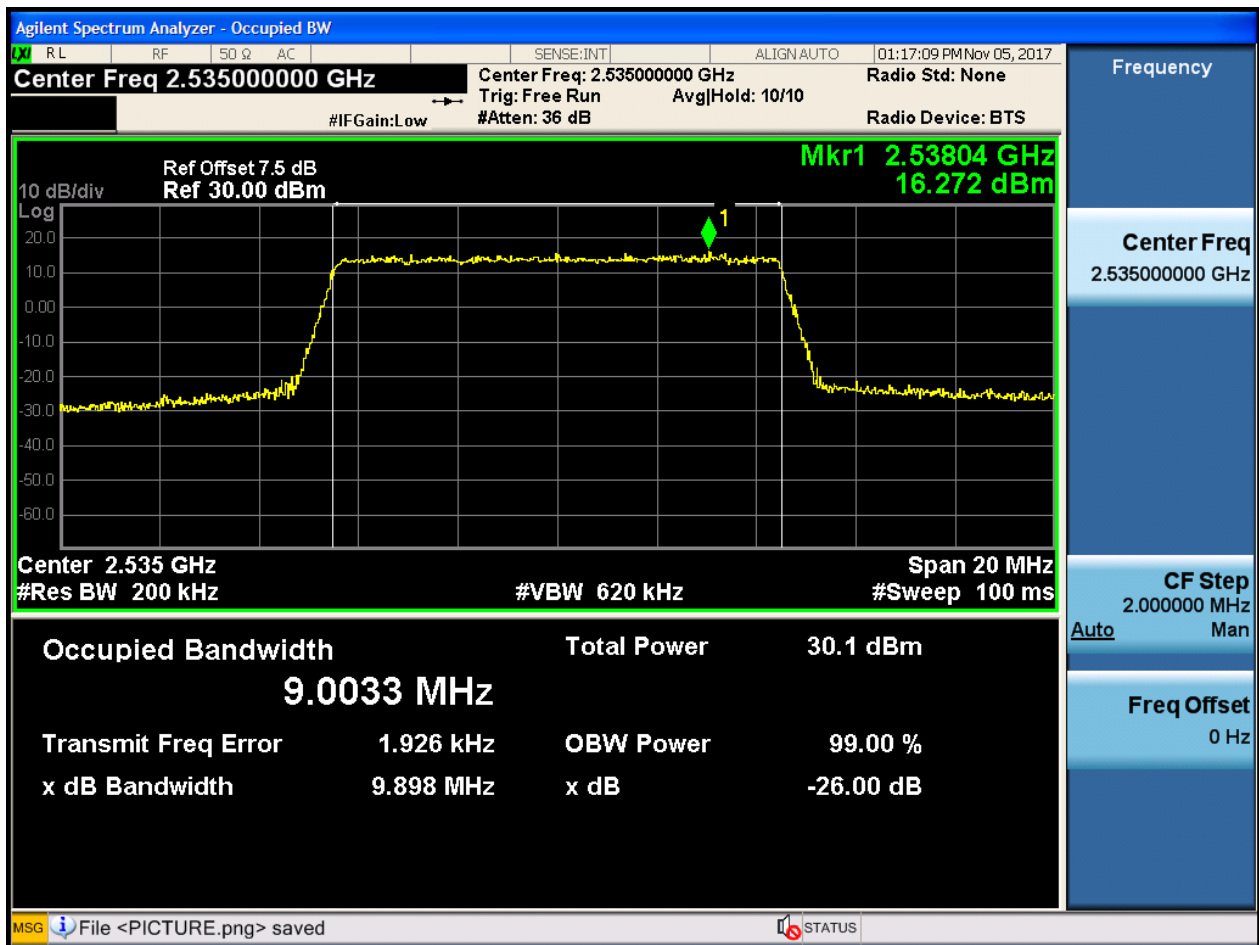
4.1.1.1.2.1.1 Test RB = RB50#0





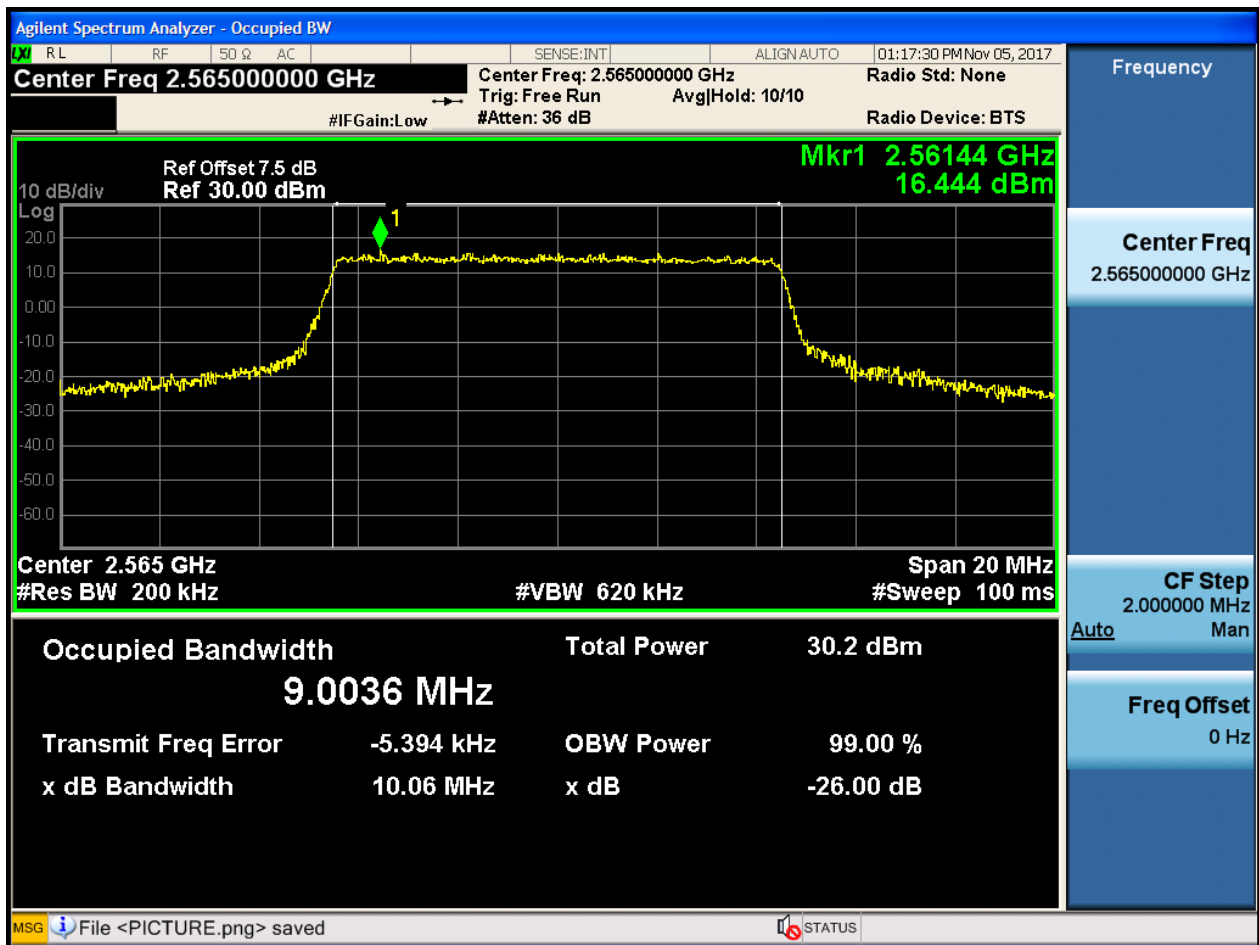
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0



4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

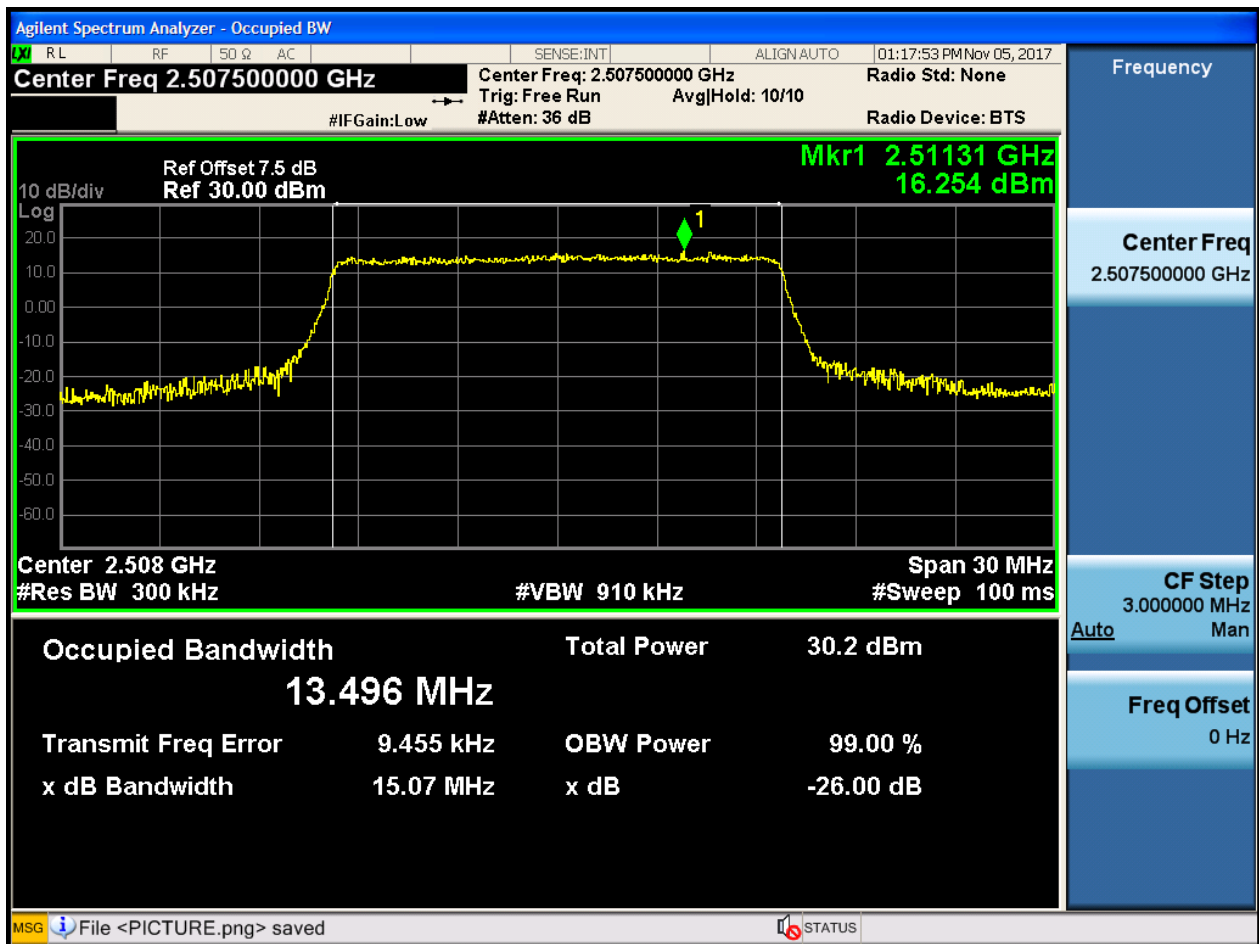




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

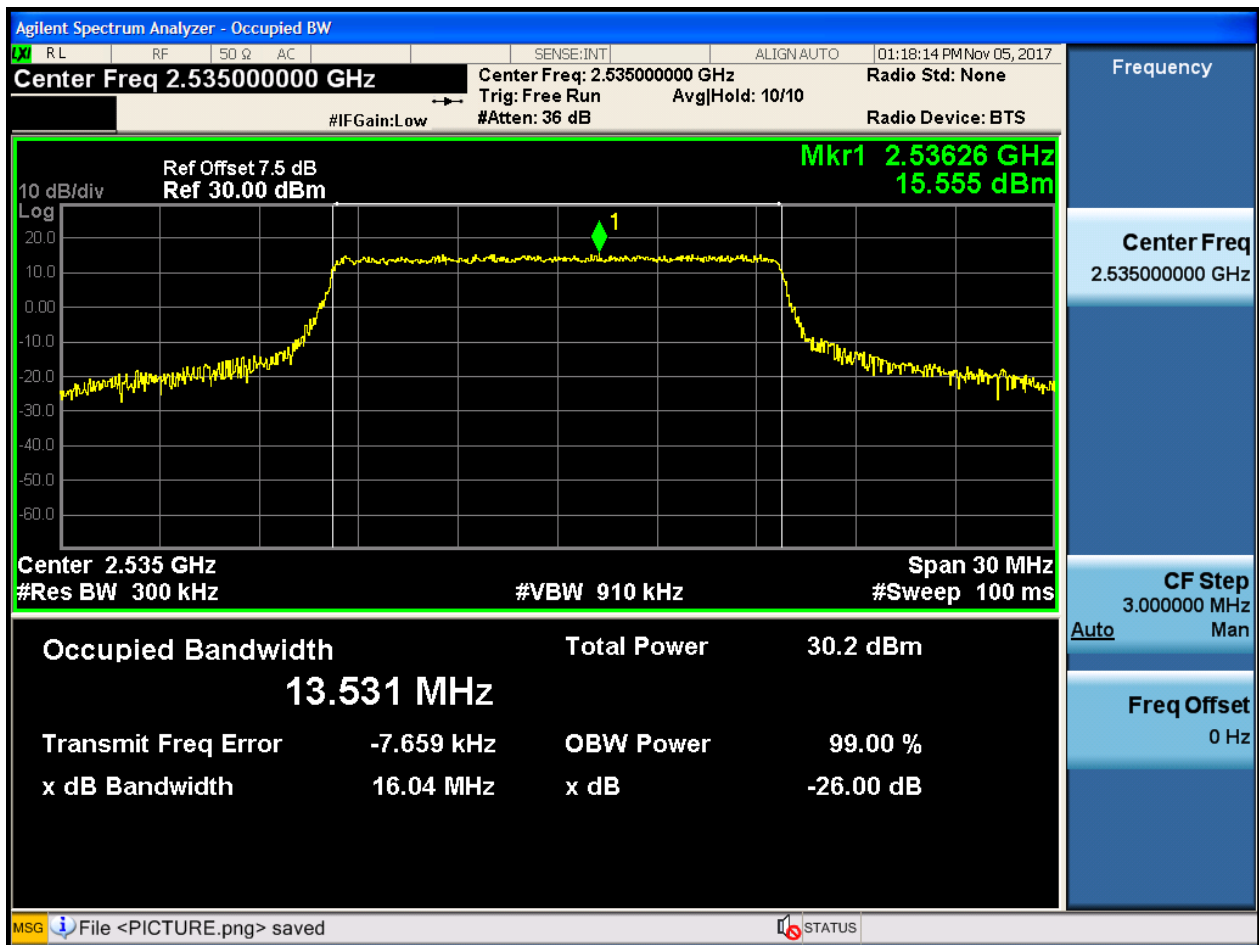
4.1.1.1.3.1.1 Test RB = RB75#0





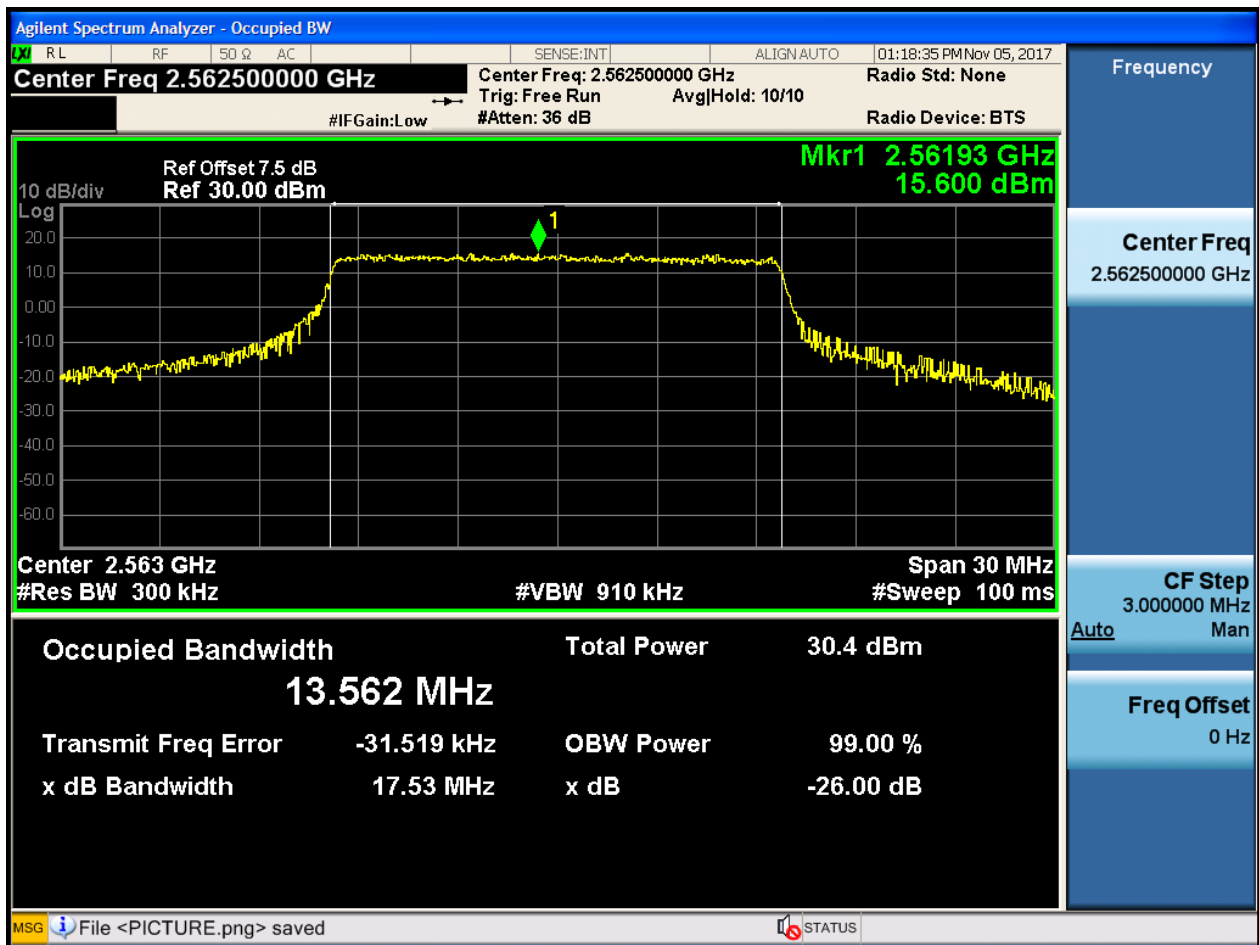
4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB75#0



4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

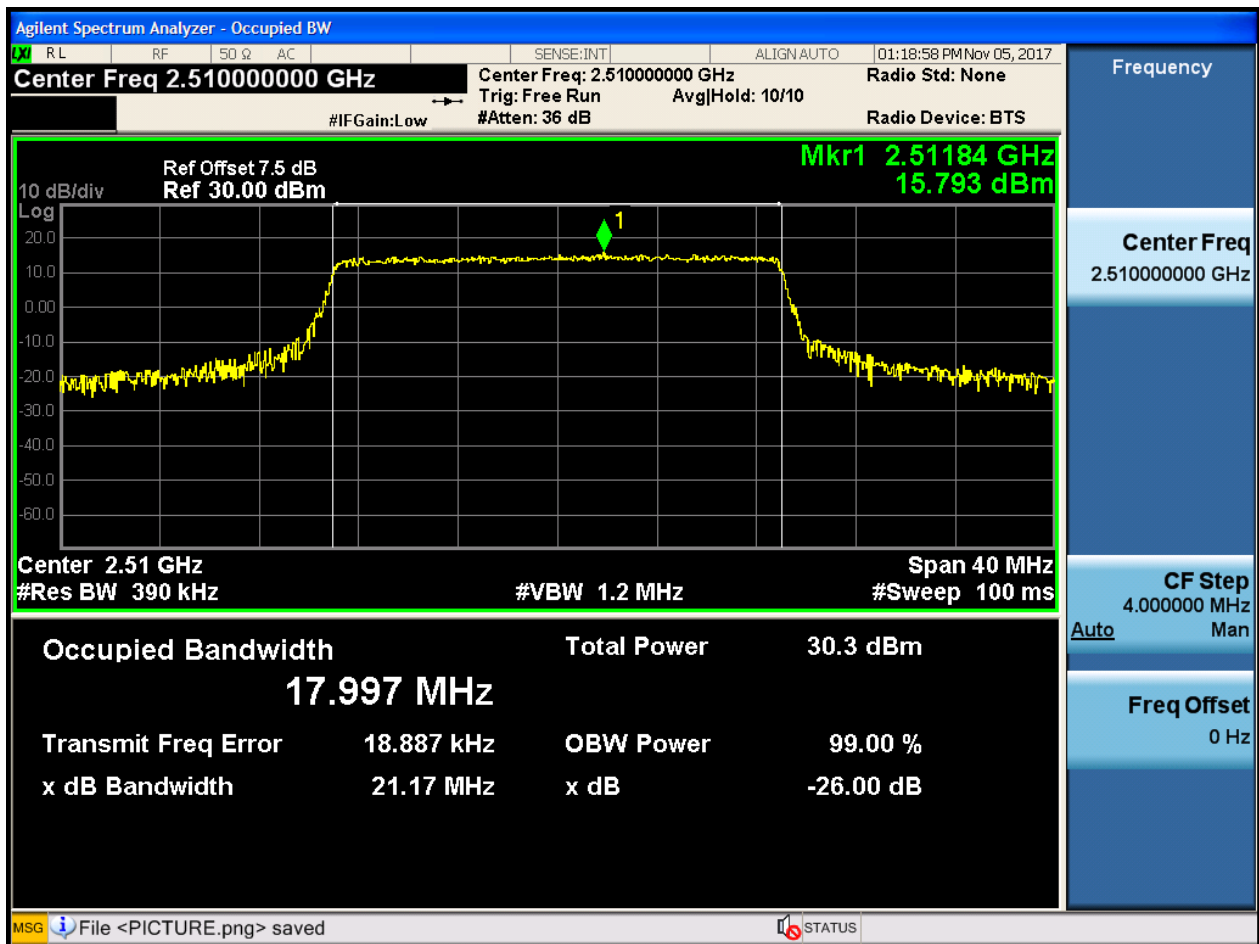




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

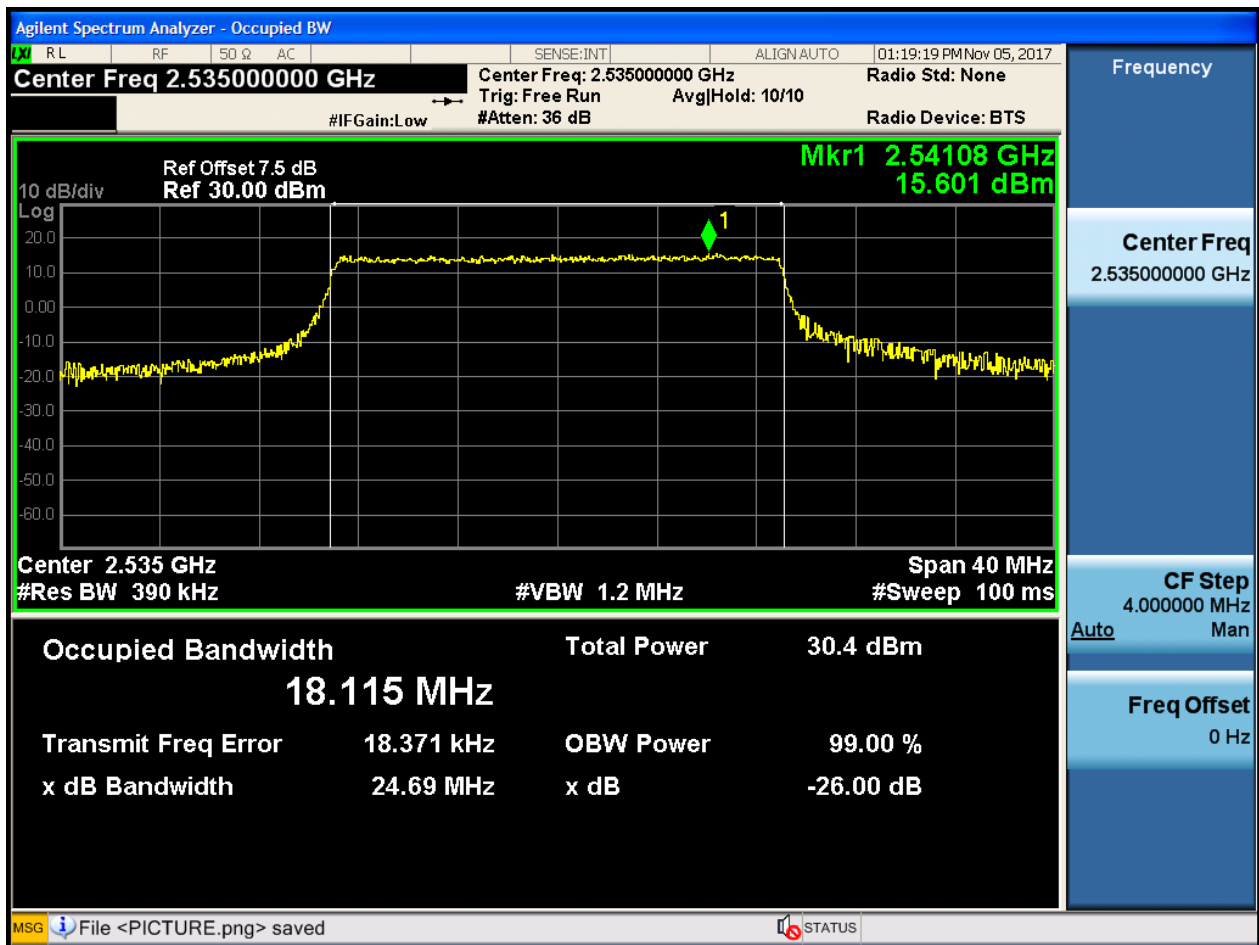
4.1.1.1.4.1.1 Test RB = RB100#0





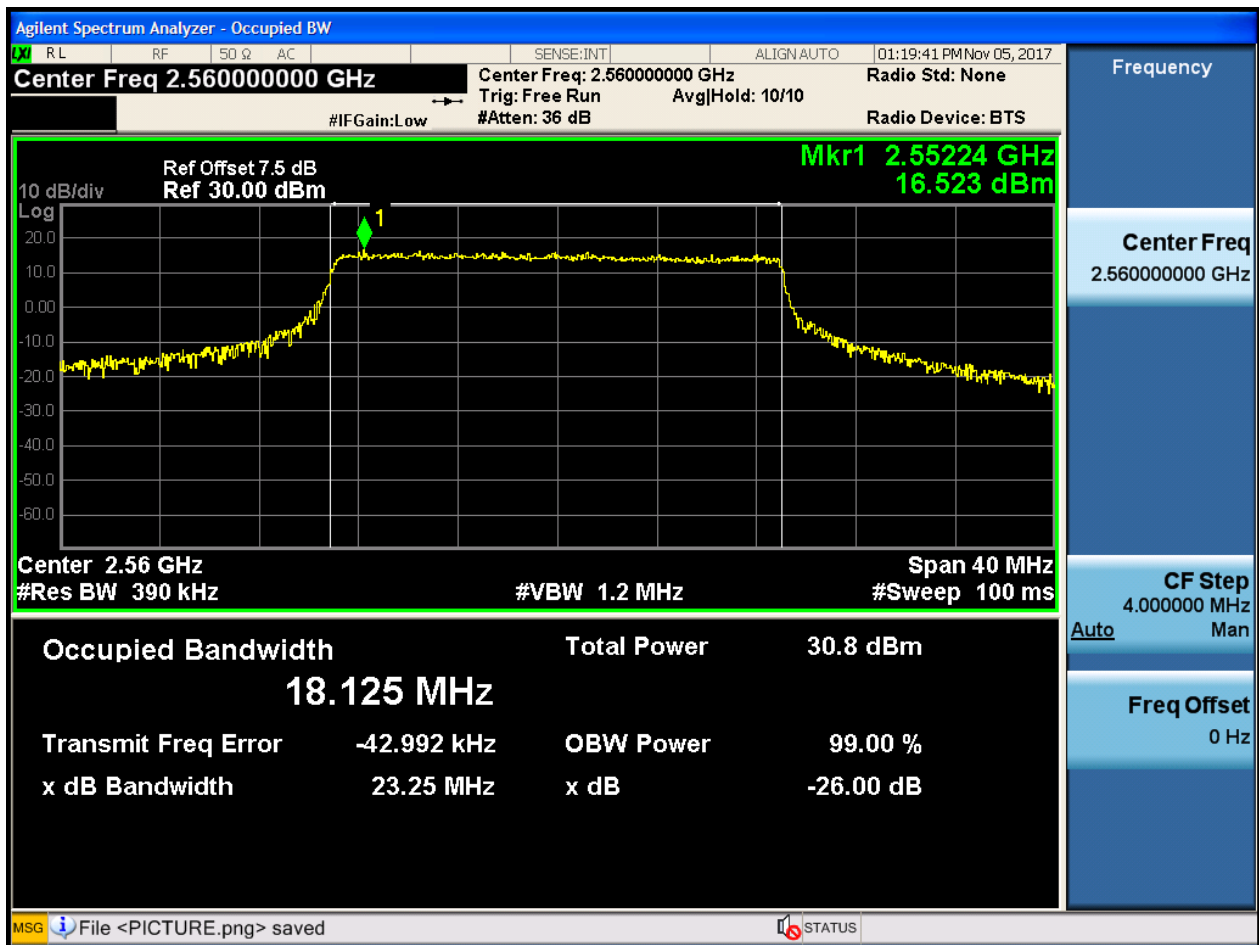
4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB100#0



4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



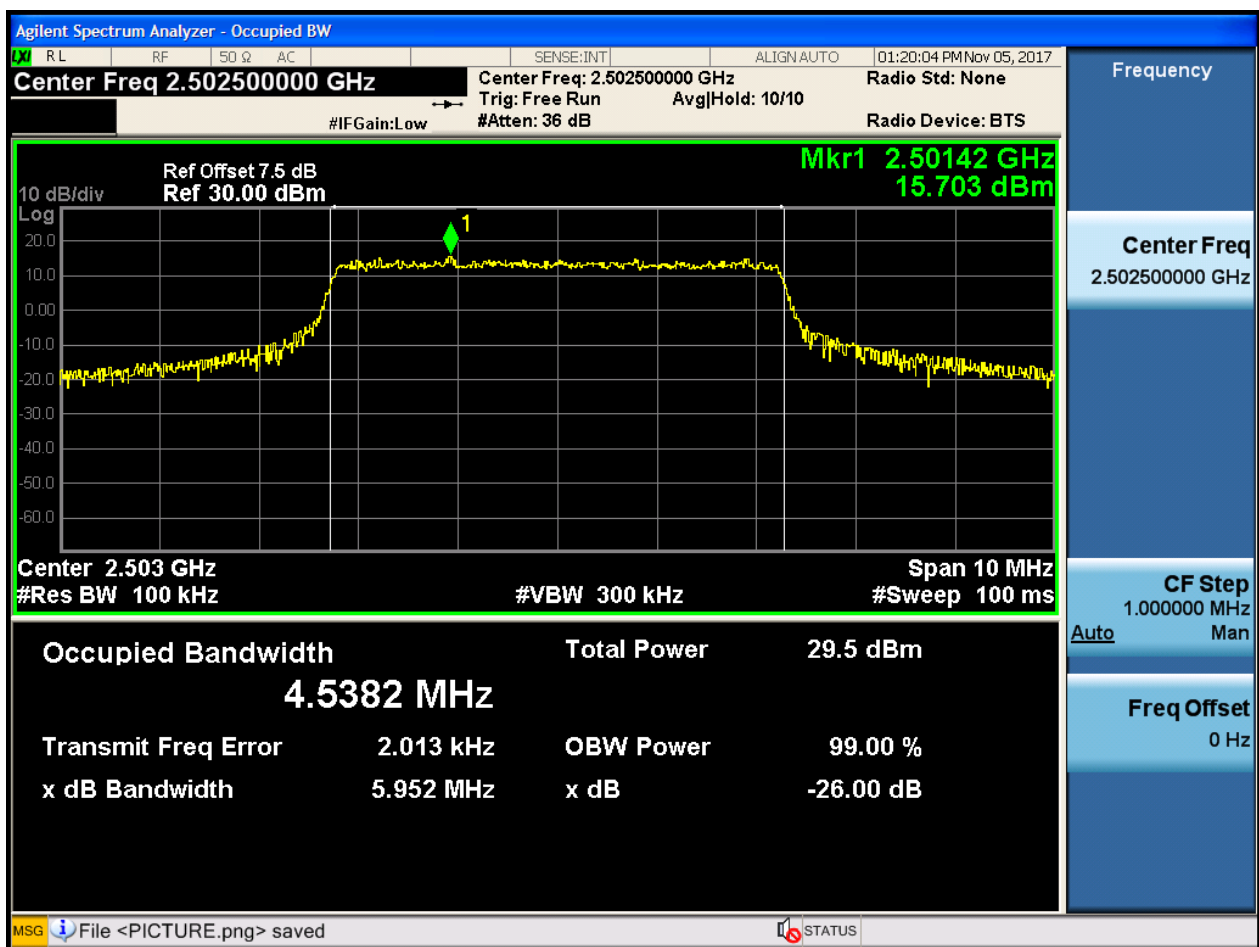


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

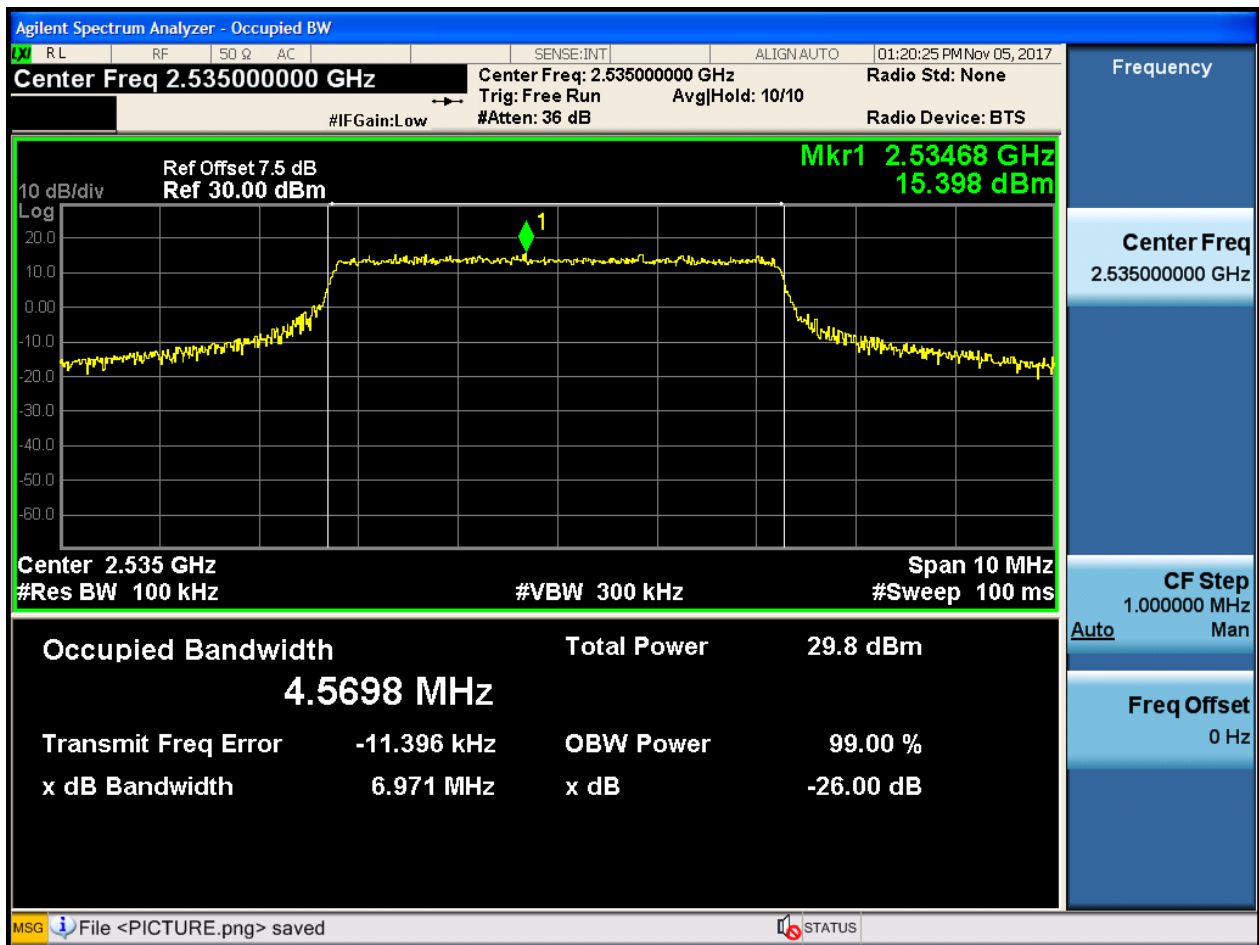
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

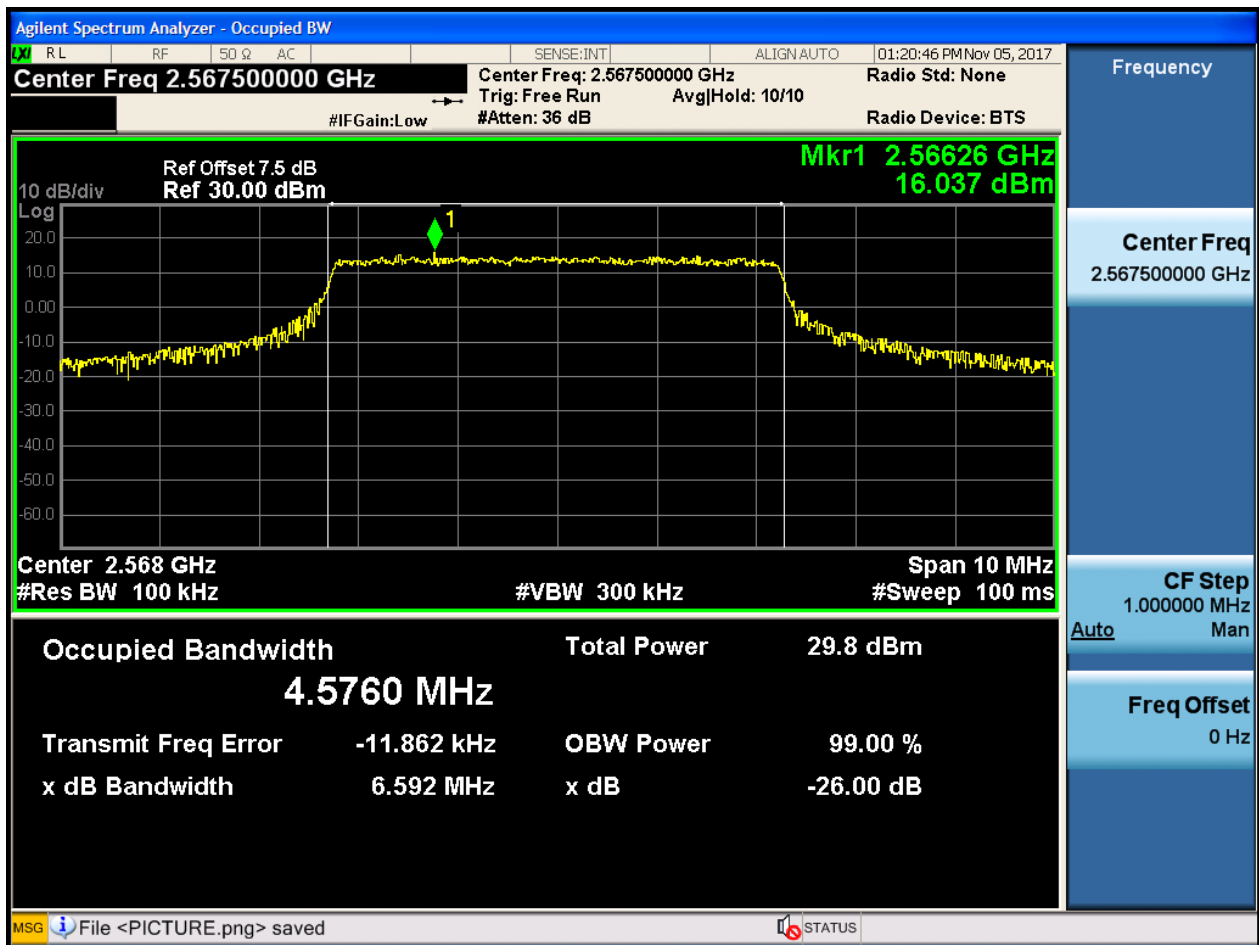
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

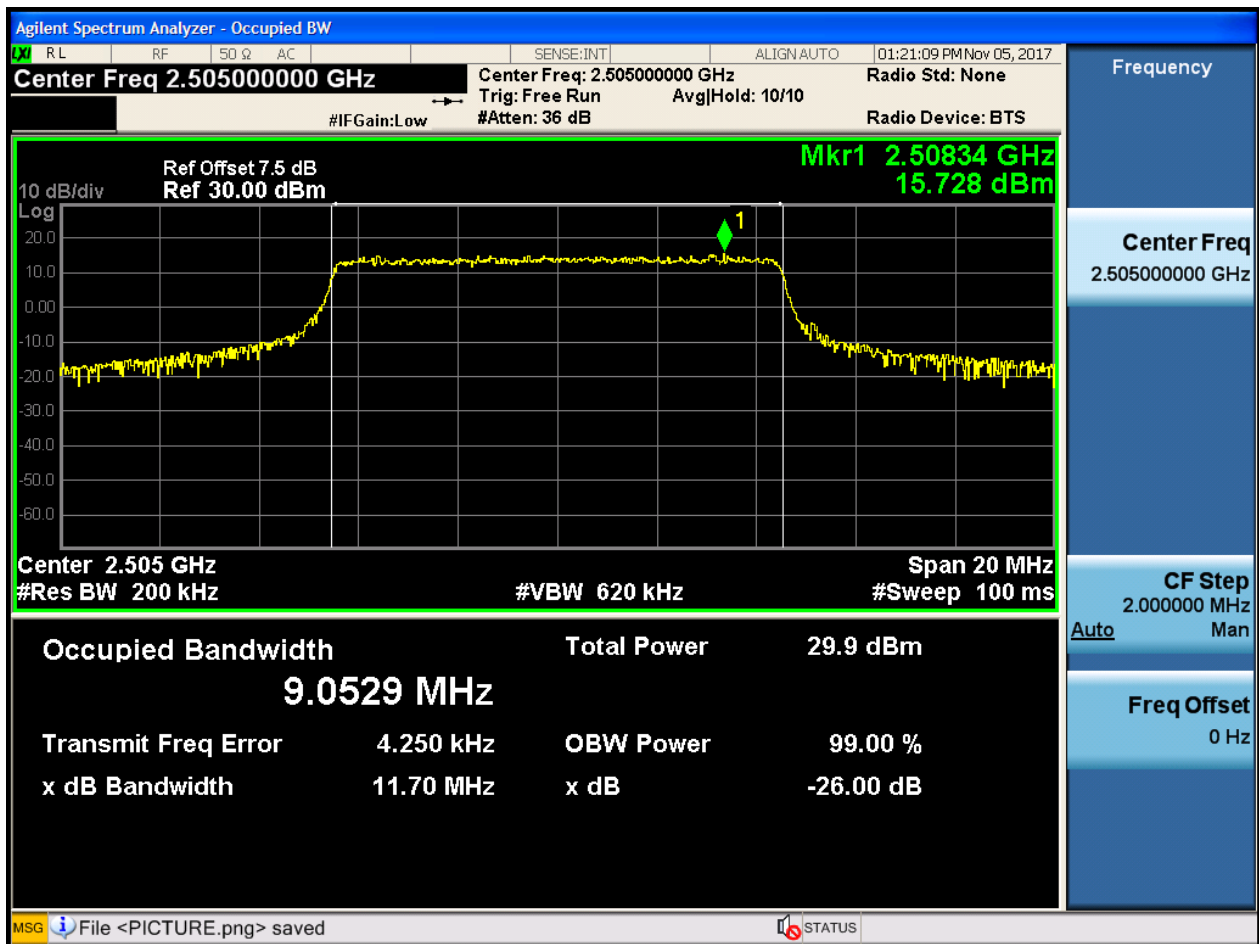




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

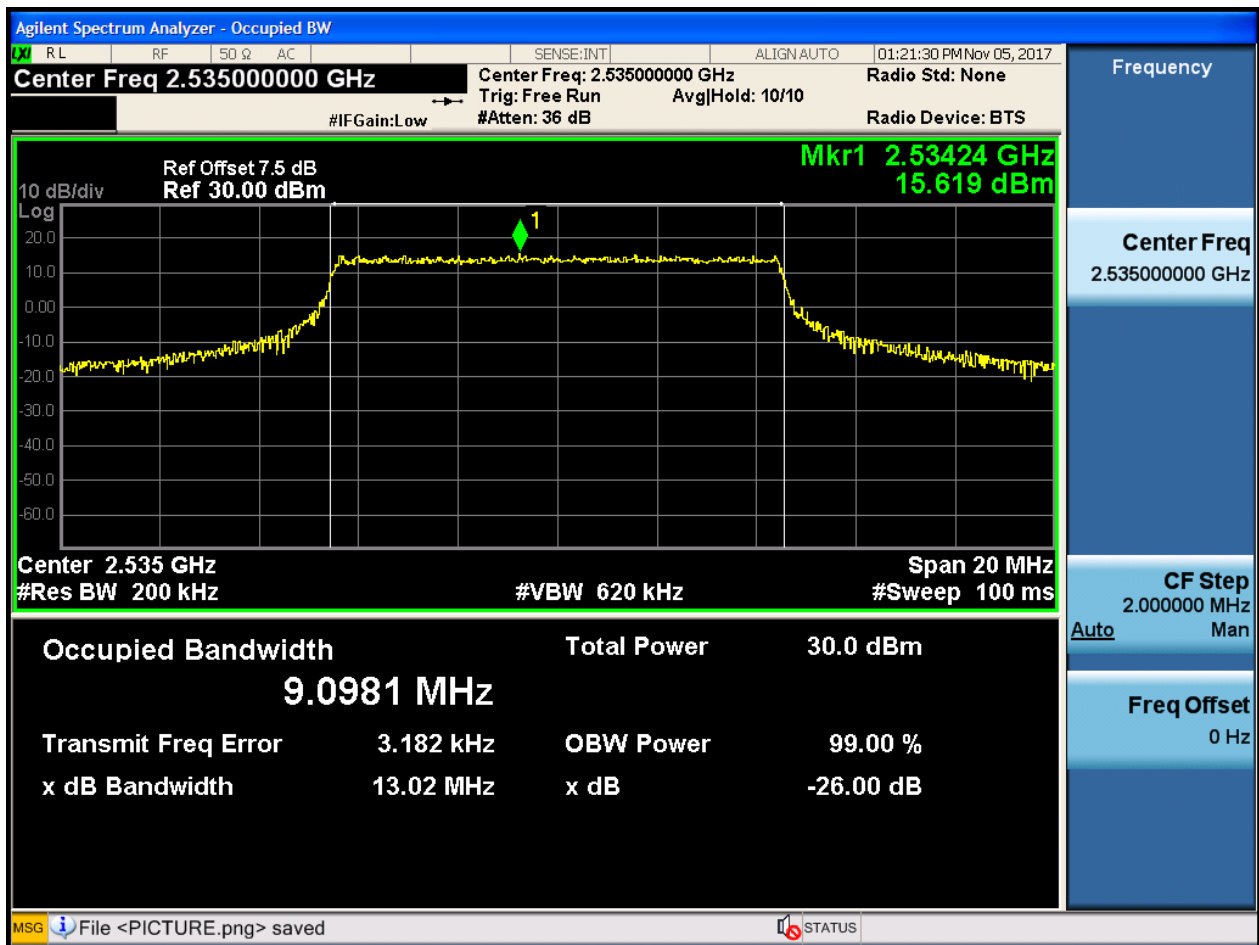
4.1.1.2.2.1.1 Test RB = RB50#0





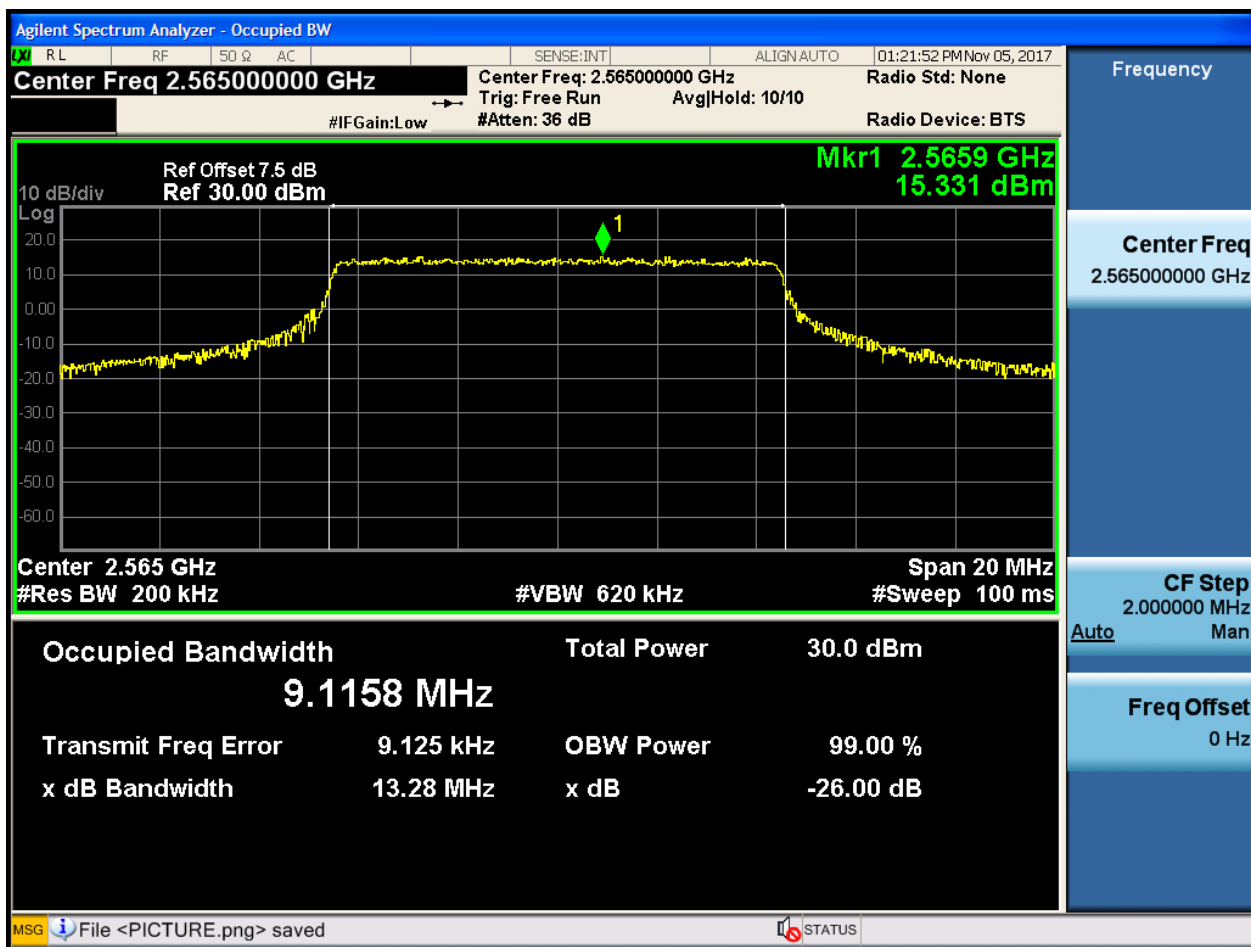
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB50#0



4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

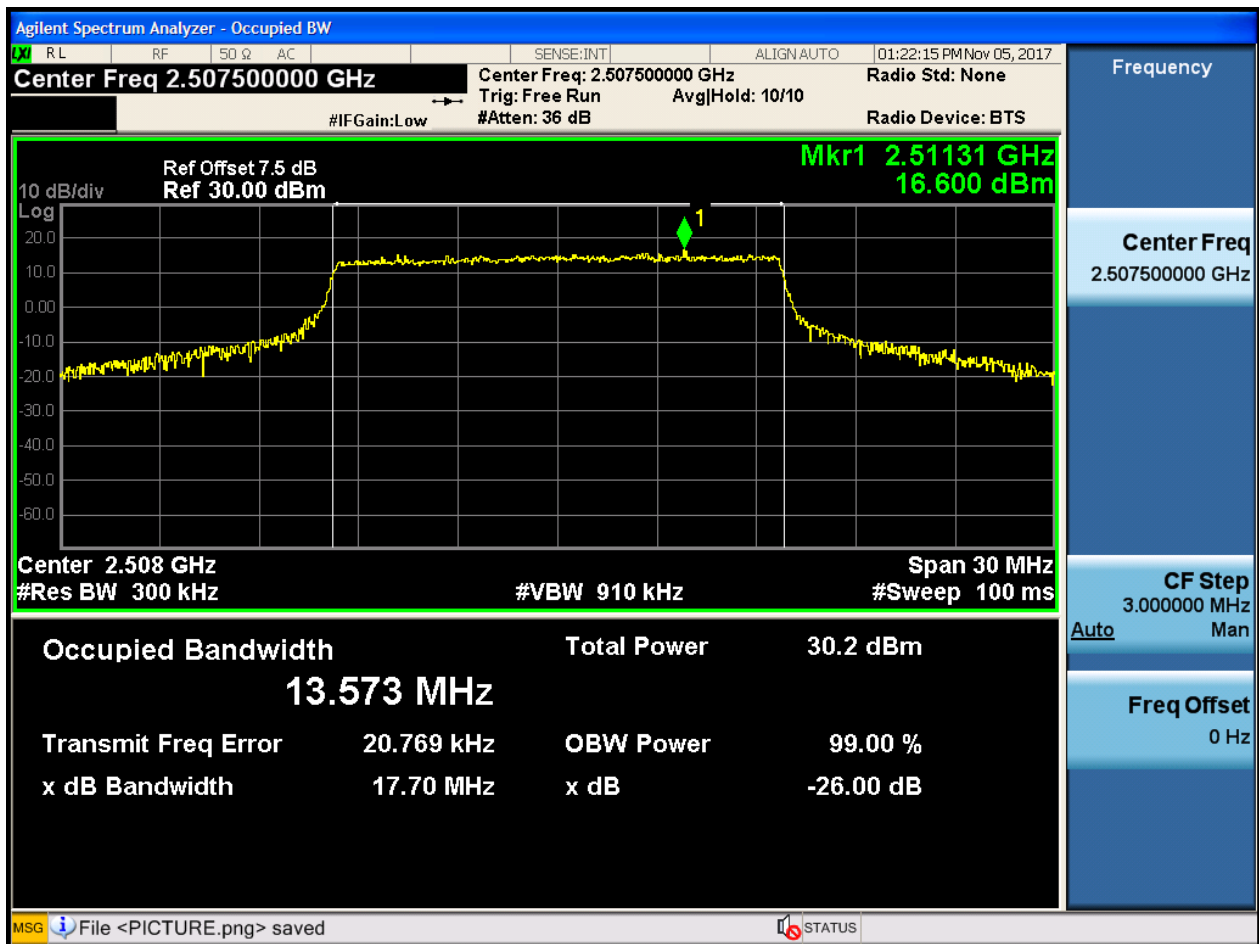




4.1.1.2.3 Test Bandwidth = 15

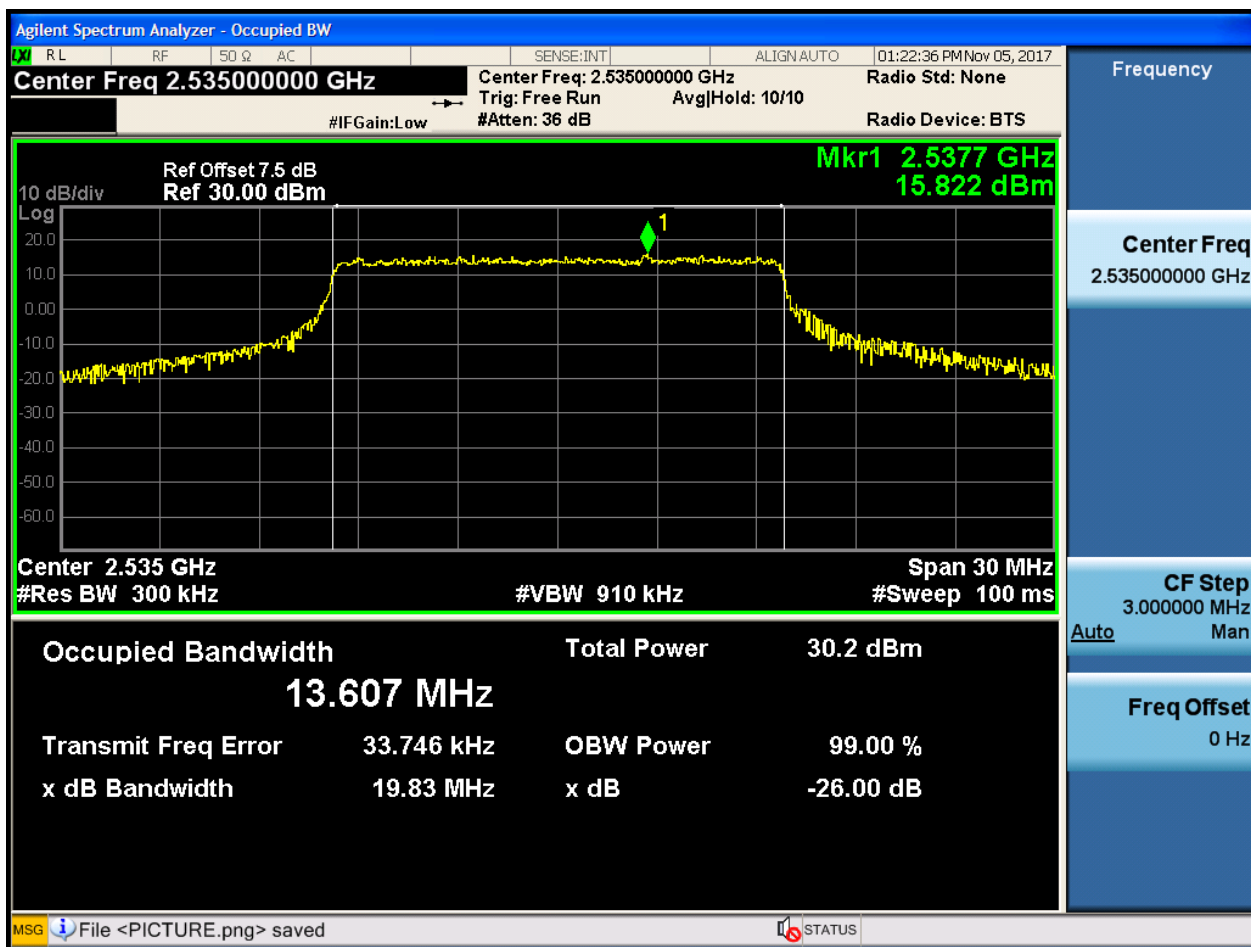
4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0



4.1.1.2.3.2 Test Channel = MCH

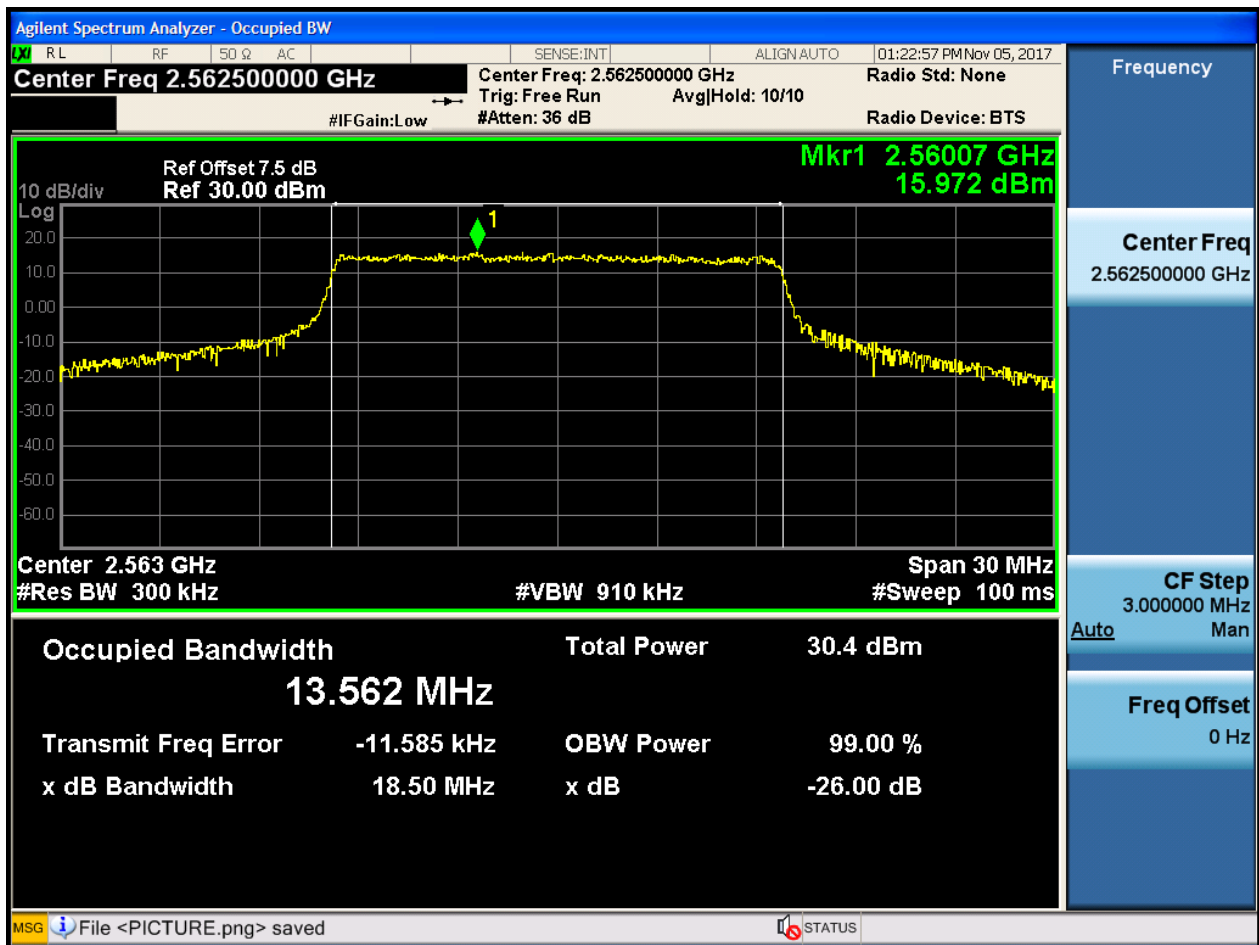
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

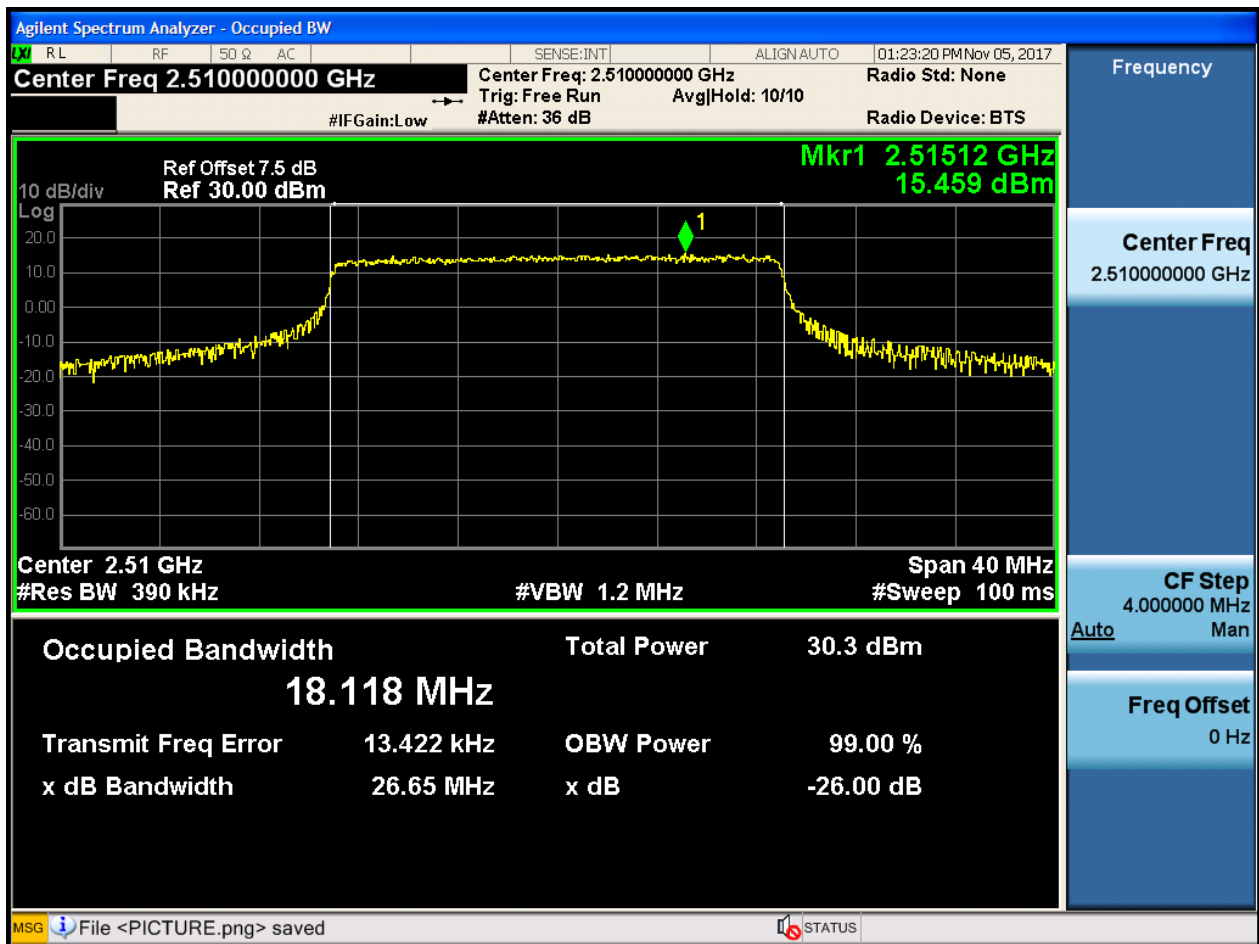




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

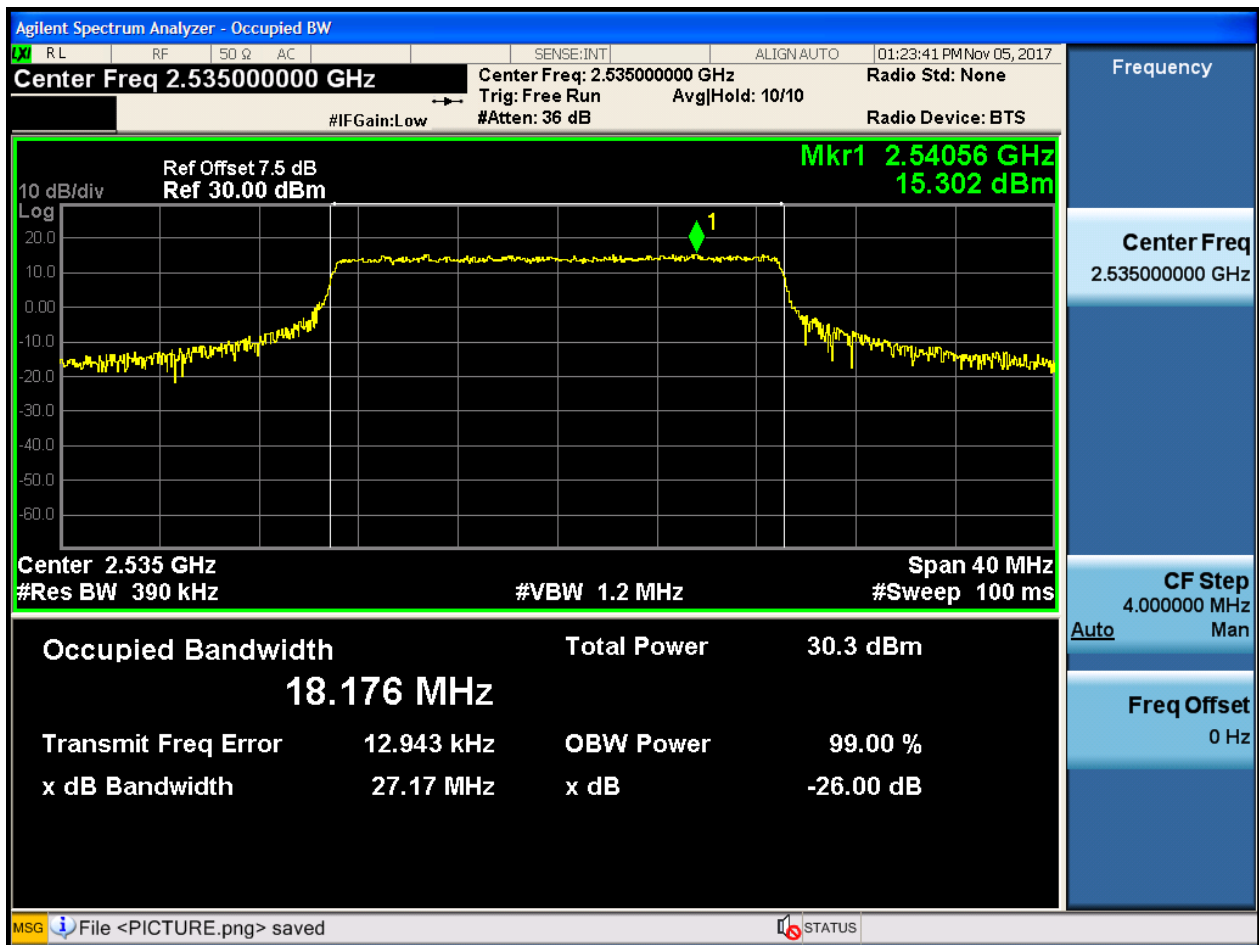
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

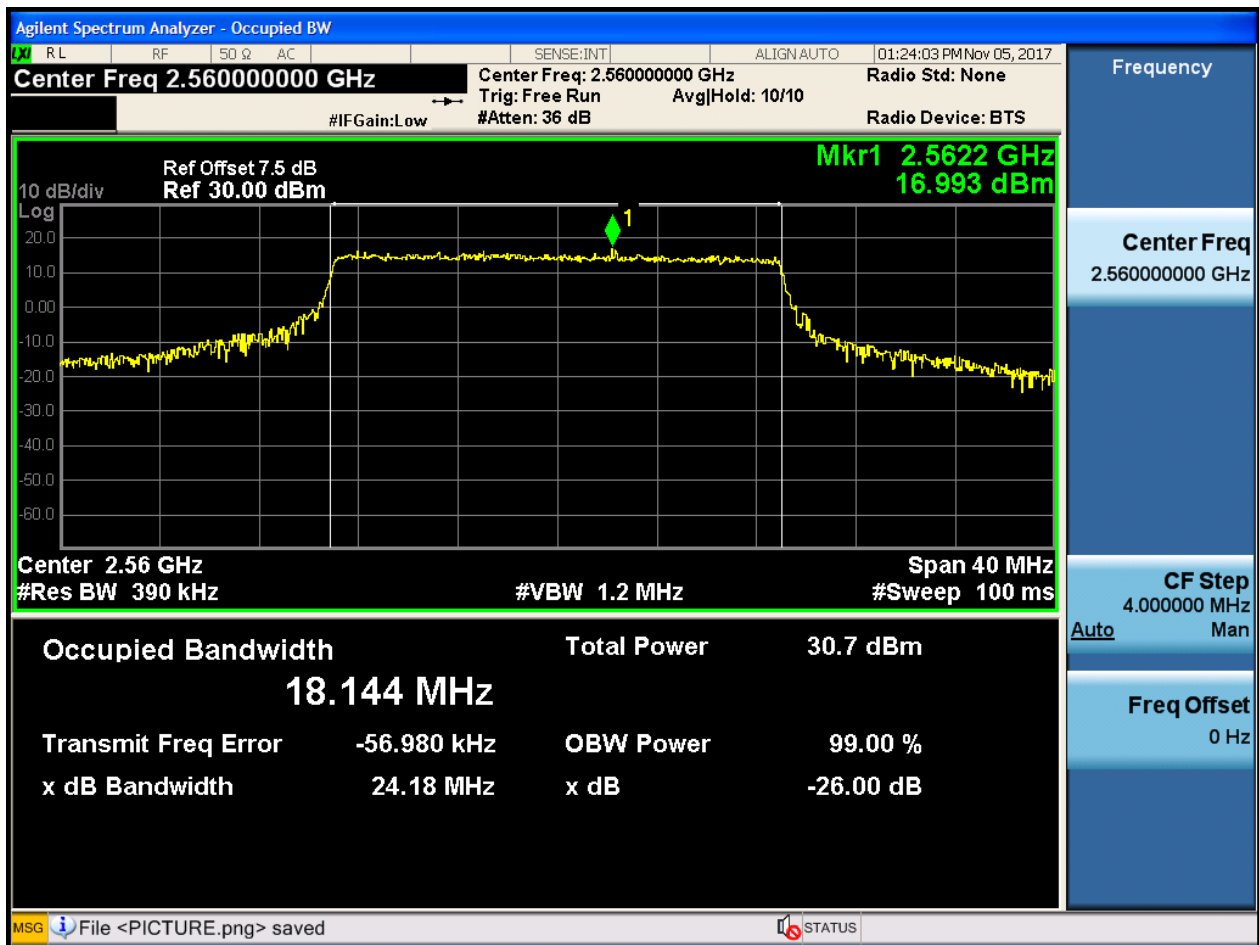
4.1.1.2.4.2.1 Test RB = RB100#0





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

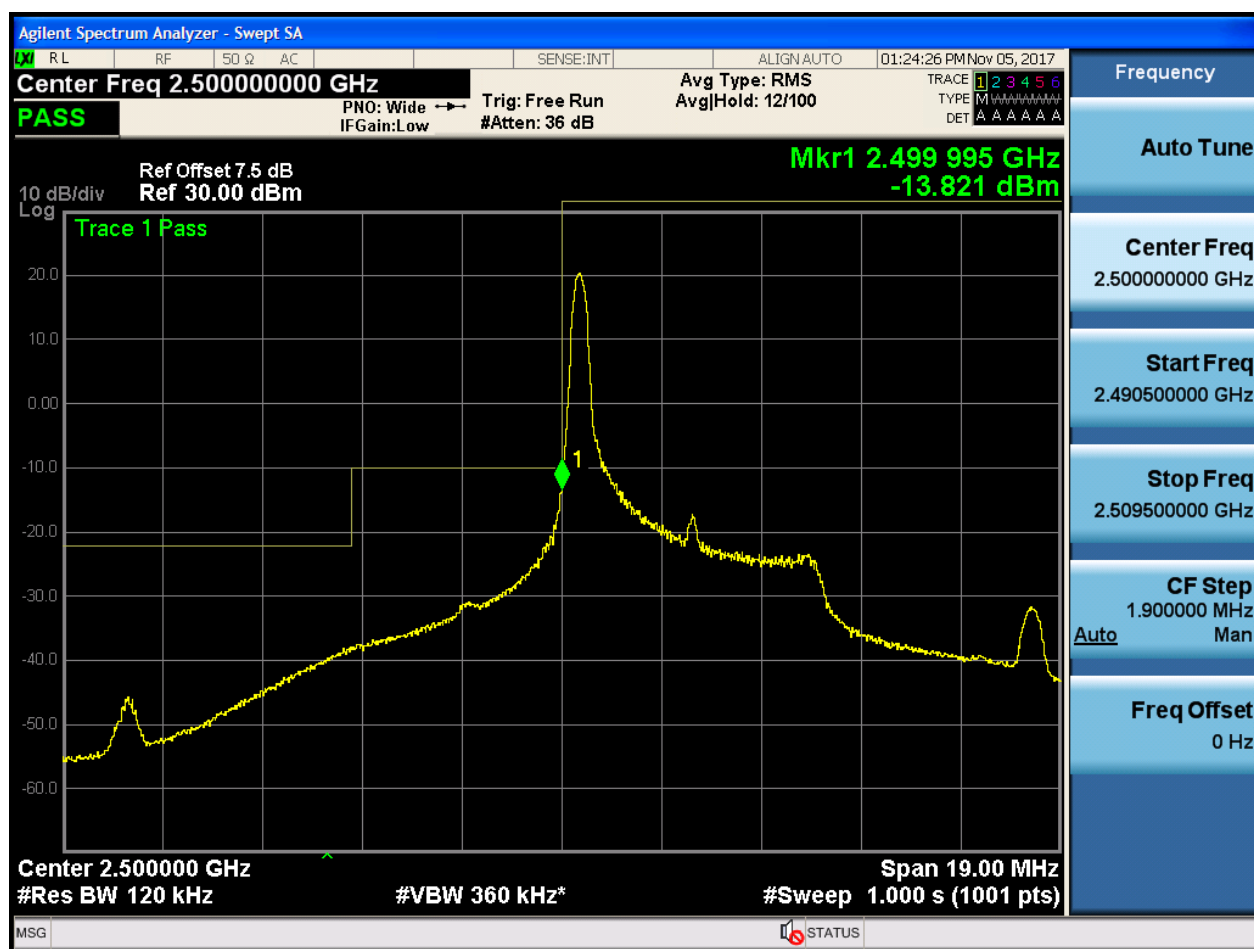
5.1.1 Test Band = BAND7

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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:24:45 PM Nov 05, 2017

Center Freq 2.50000000 GHz Avg Type: RMS
PNO: Wide → Trig: Free Run AvgHold: 12/100
IFGain: Low #Atten: 36 dB TYPE M A A A A A A DET A A A A A A A

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-30.587 dBm

10 dB/div Log

Trace 1 Pass

The spectrum analyzer displays a frequency range from 2.4905 GHz to 2.5095 GHz. The vertical axis represents power in dBm, ranging from -60.0 to 20.0. A yellow trace shows the signal spectrum. A prominent peak is visible at approximately 2.499995 GHz, reaching a power level of about -30.587 dBm. Other smaller peaks are present across the swept range.

Center 2.500000 GHz Span 19.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency Auto Tune Center Freq 2.50000000 GHz Start Freq 2.490500000 GHz Stop Freq 2.509500000 GHz CF Step 1.900000 MHz Man Auto Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:25:03 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run Avg/Hold: 11/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-27.911 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG Alignment Completed STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:25:22 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run Avg/Hold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-24.892 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

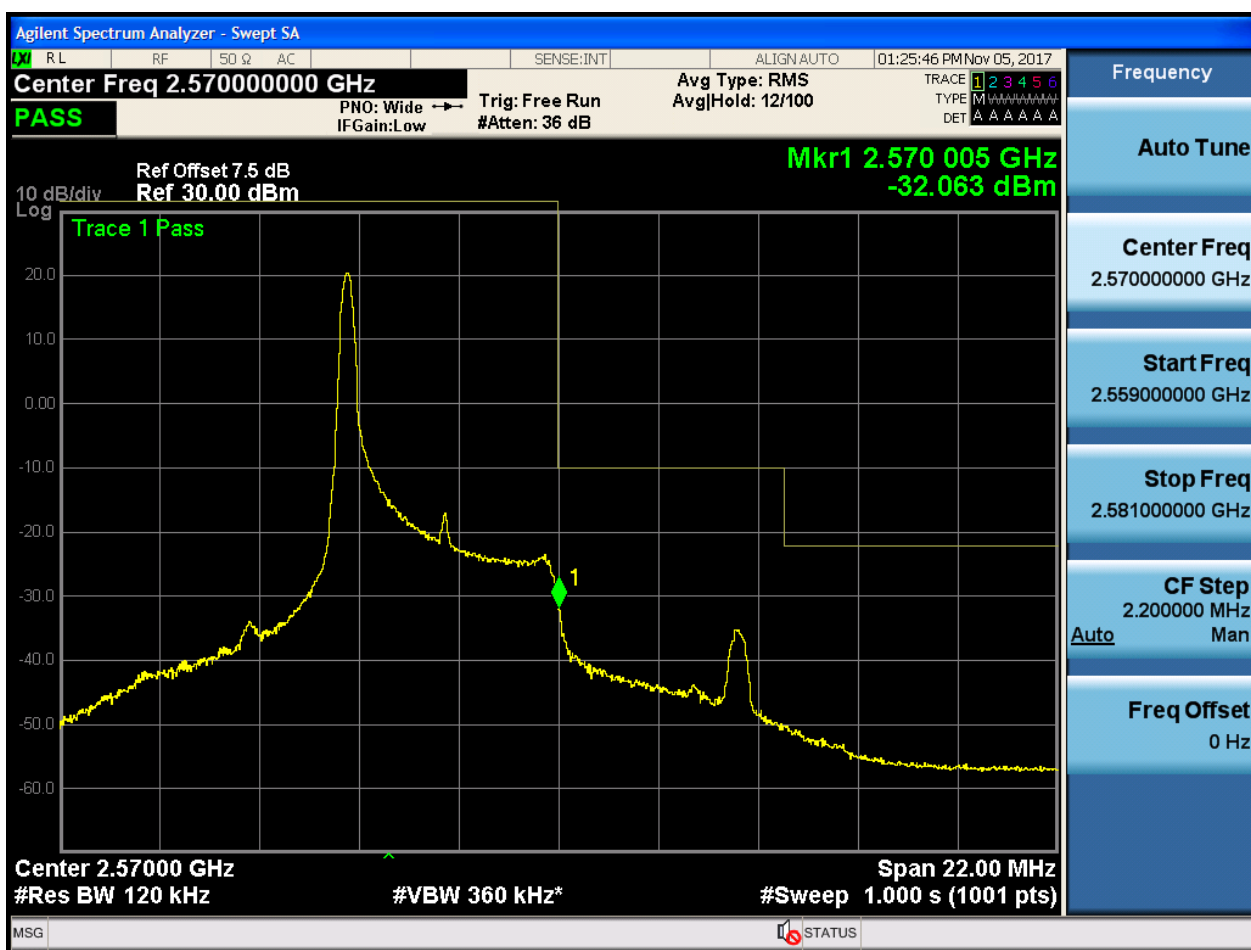
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:26:22 PM Nov 05, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run AvgHold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-28.608 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 22.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.559000000 GHz

Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:26:41 PM Nov 05, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
#Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-24.877 dBm

10 dB/div
Log

Trace 1 Pass

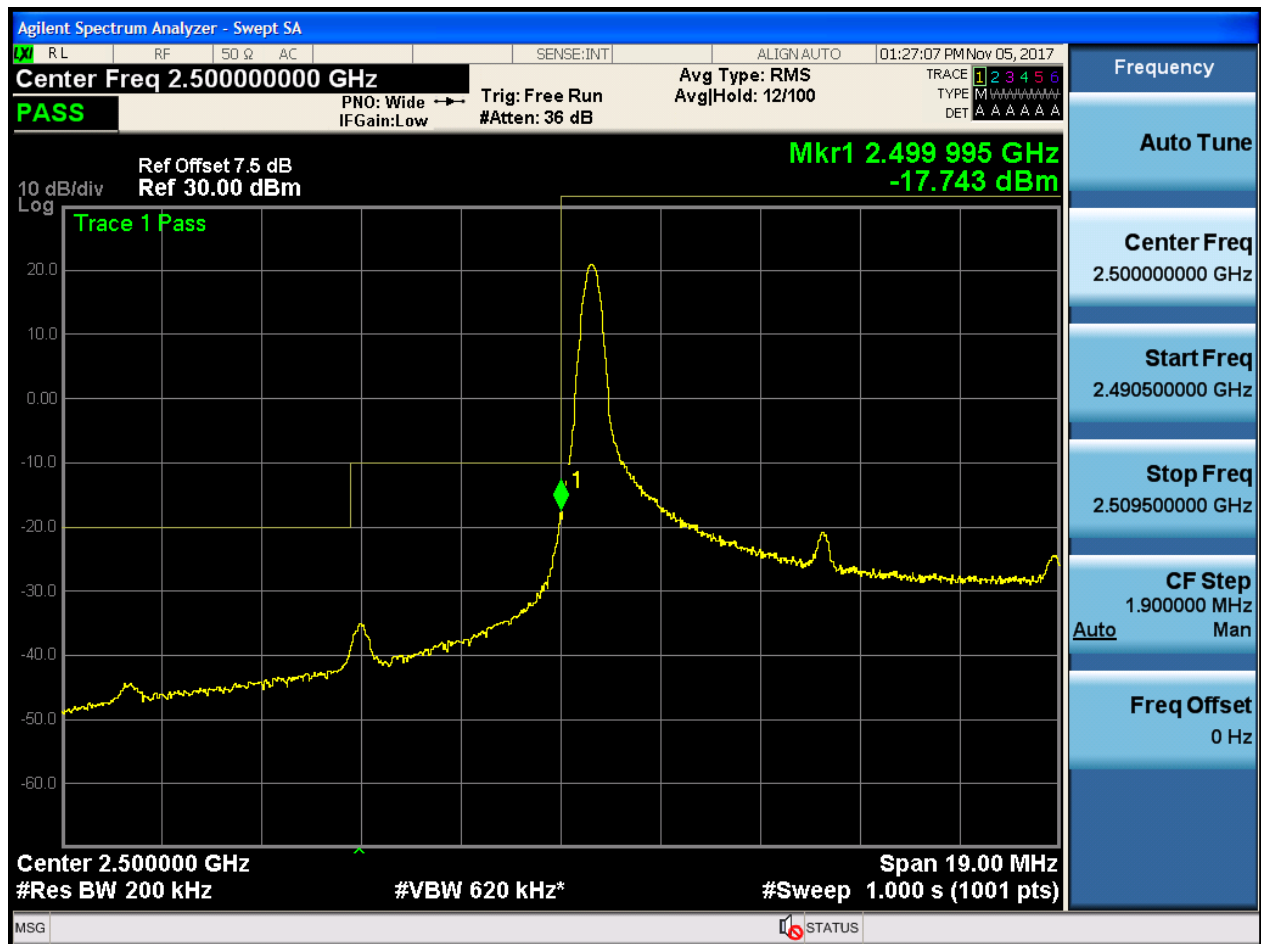
Center 2.57000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 22.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:27:44 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-32.498 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:28:02 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.000 s (1001 pts)

PASS PNO: Wide IFGain:Low Trig: Free Run #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-29.475 dBm

10 dB/div
Log

Trace 1 Pass

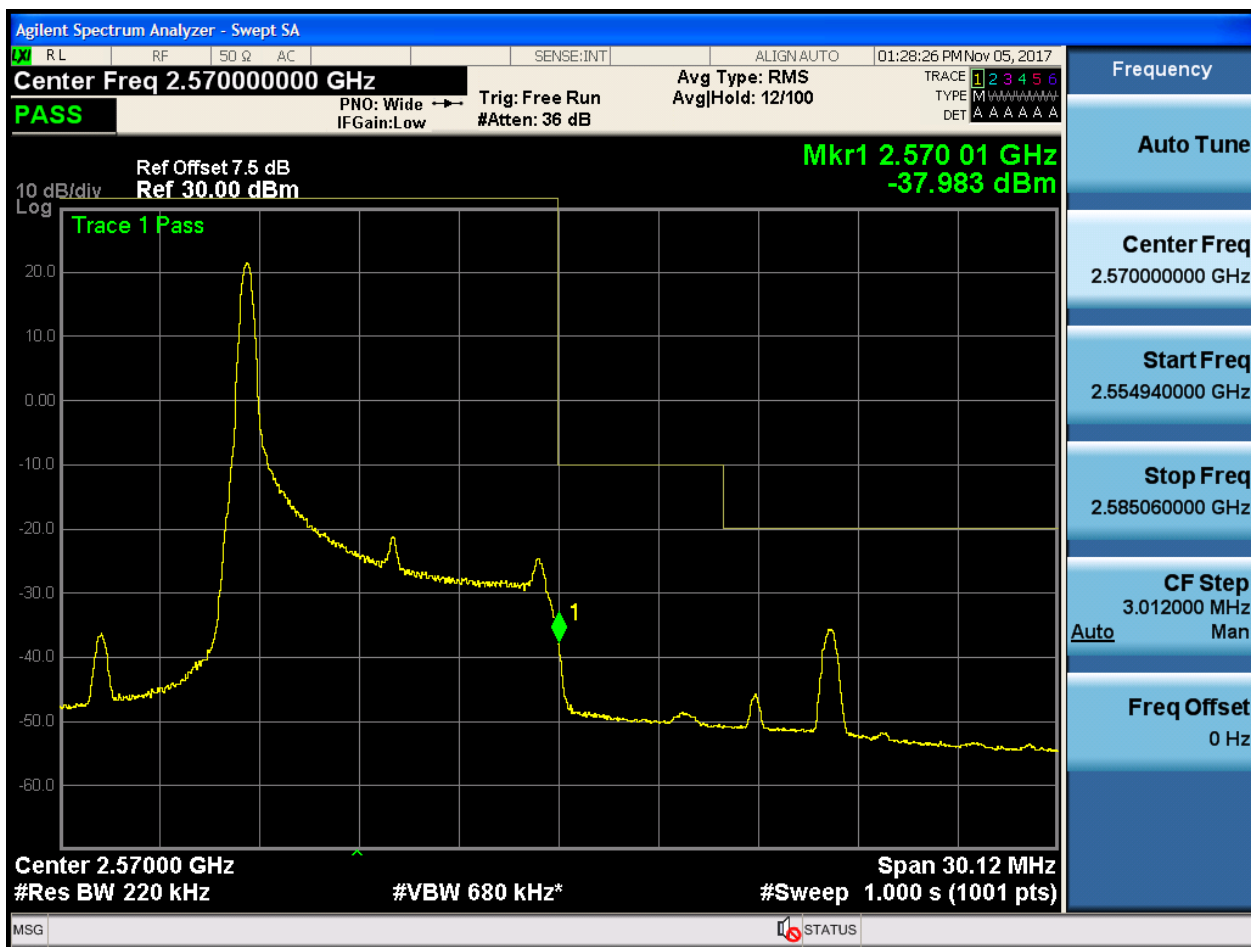
Center 2.500000 GHz Span 19.00 MHz

MSG STATUS

Frequency
Auto Tune
Center Freq 2.500000000 GHz
Start Freq 2.490500000 GHz
Stop Freq 2.509500000 GHz
CF Step 1.900000 MHz Auto Man
Freq Offset 0 Hz

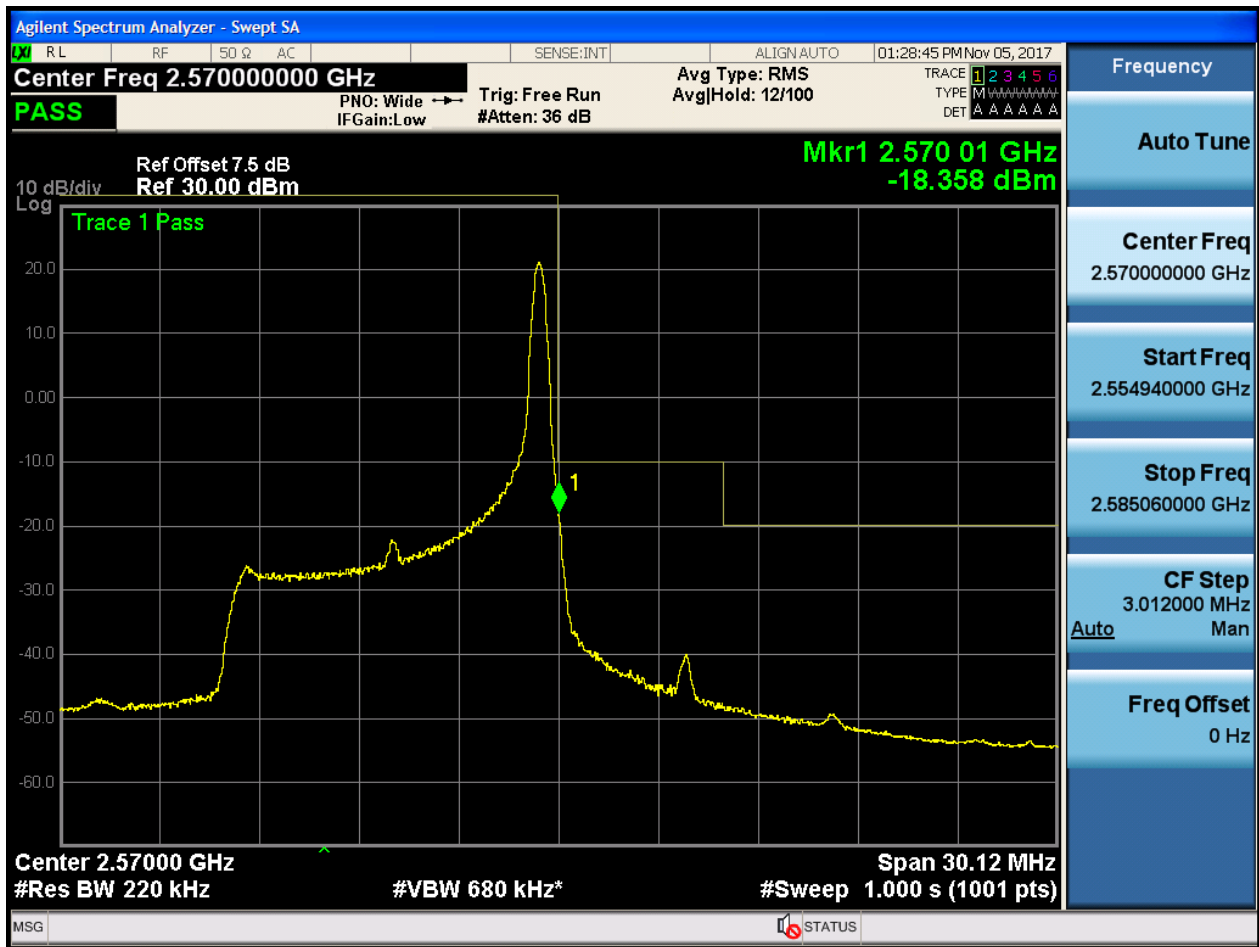
5.1.1.1.2.2 Test Channel = HCH

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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:29:04 PM Nov 05, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run AvgHold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-30.995 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 30.12 MHz
#Res BW 220 kHz #VBW 680 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.554940000 GHz

Stop Freq
2.585060000 GHz

CF Step
3.012000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.2.4 Test RB = RB50#0

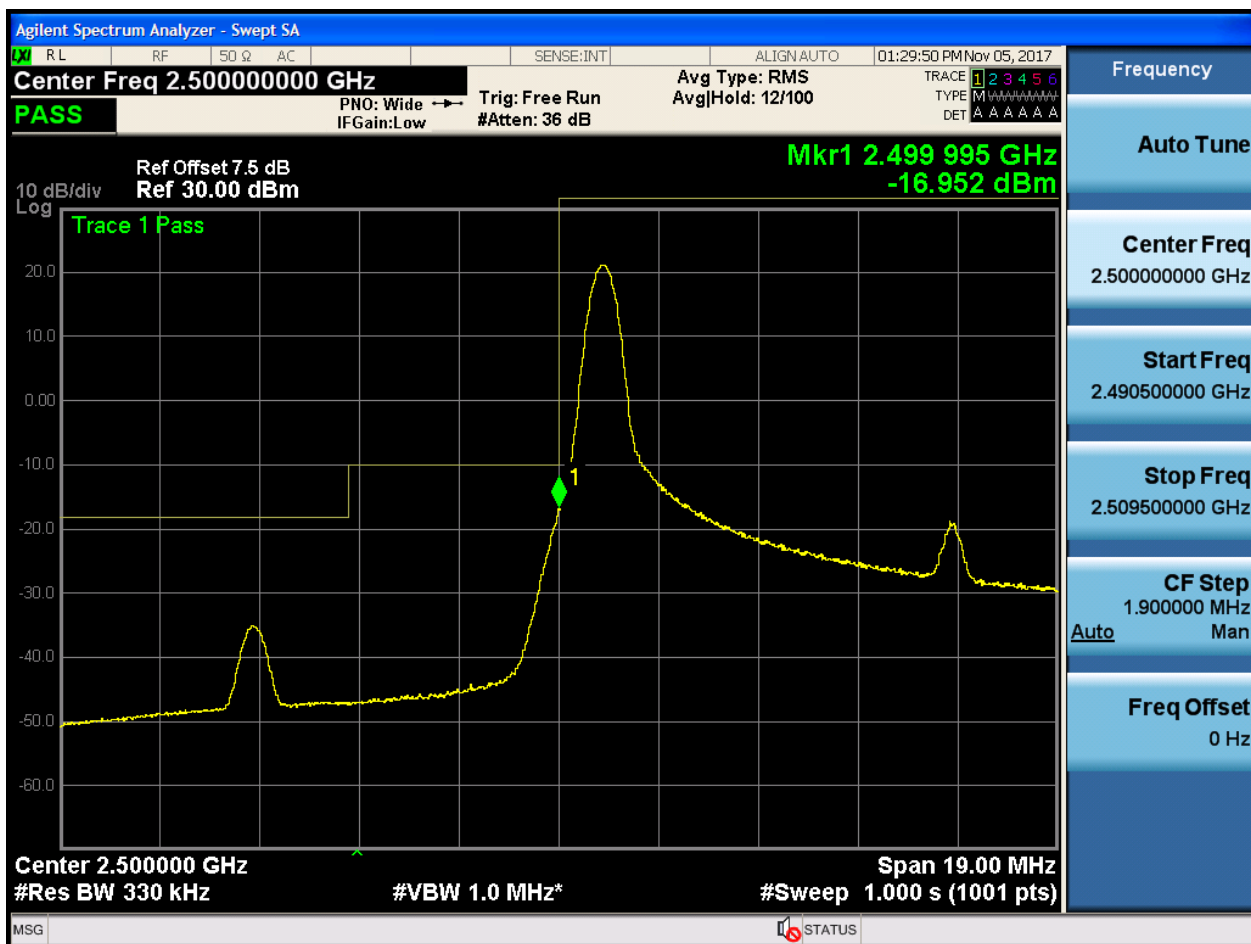




5.1.1.1.3 Test Bandwidth = 15

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

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:30:09 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-40.740 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 330 kHz

#VBW 1.0 MHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

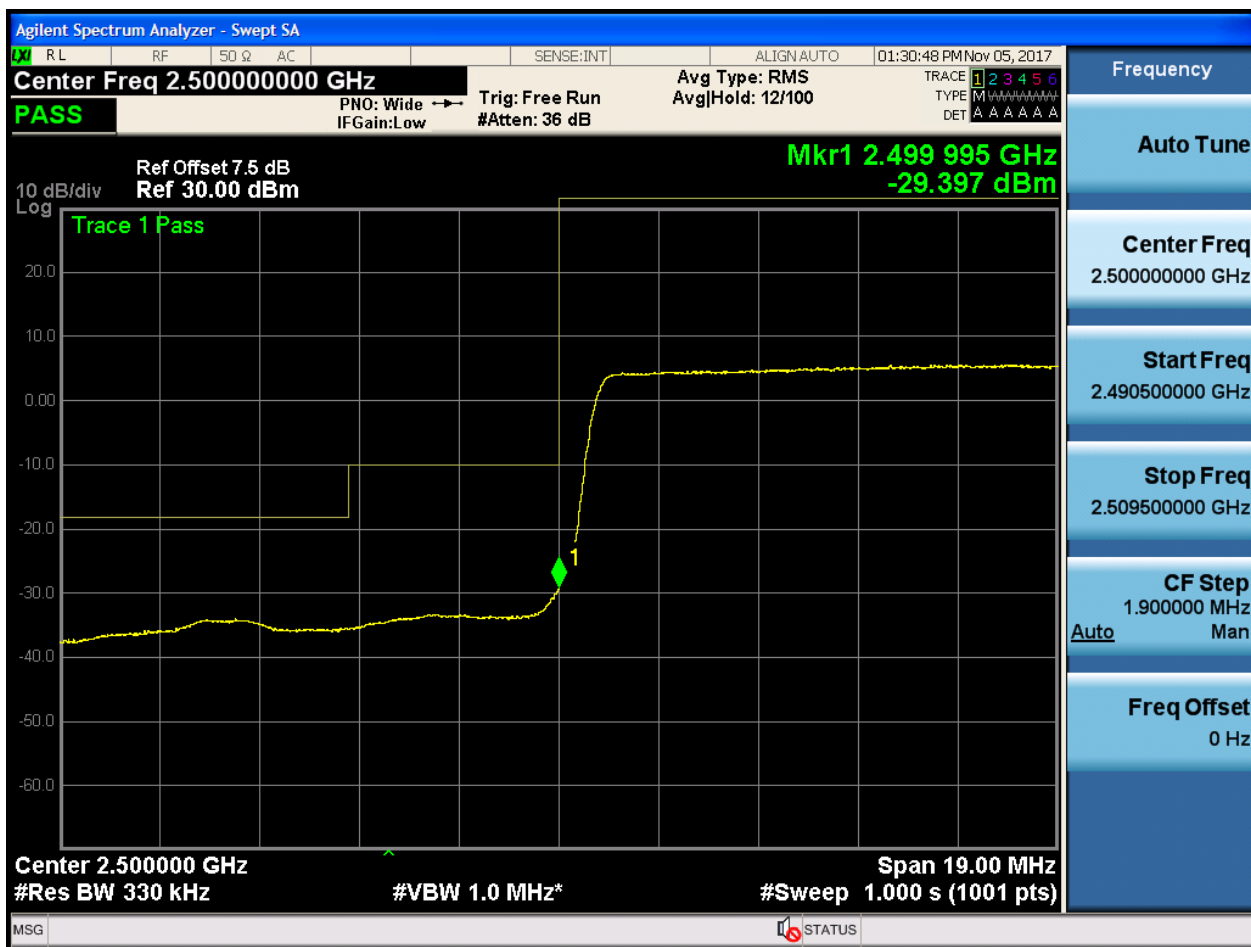


5.1.1.1.3.1.3 Test RB = RB36#18





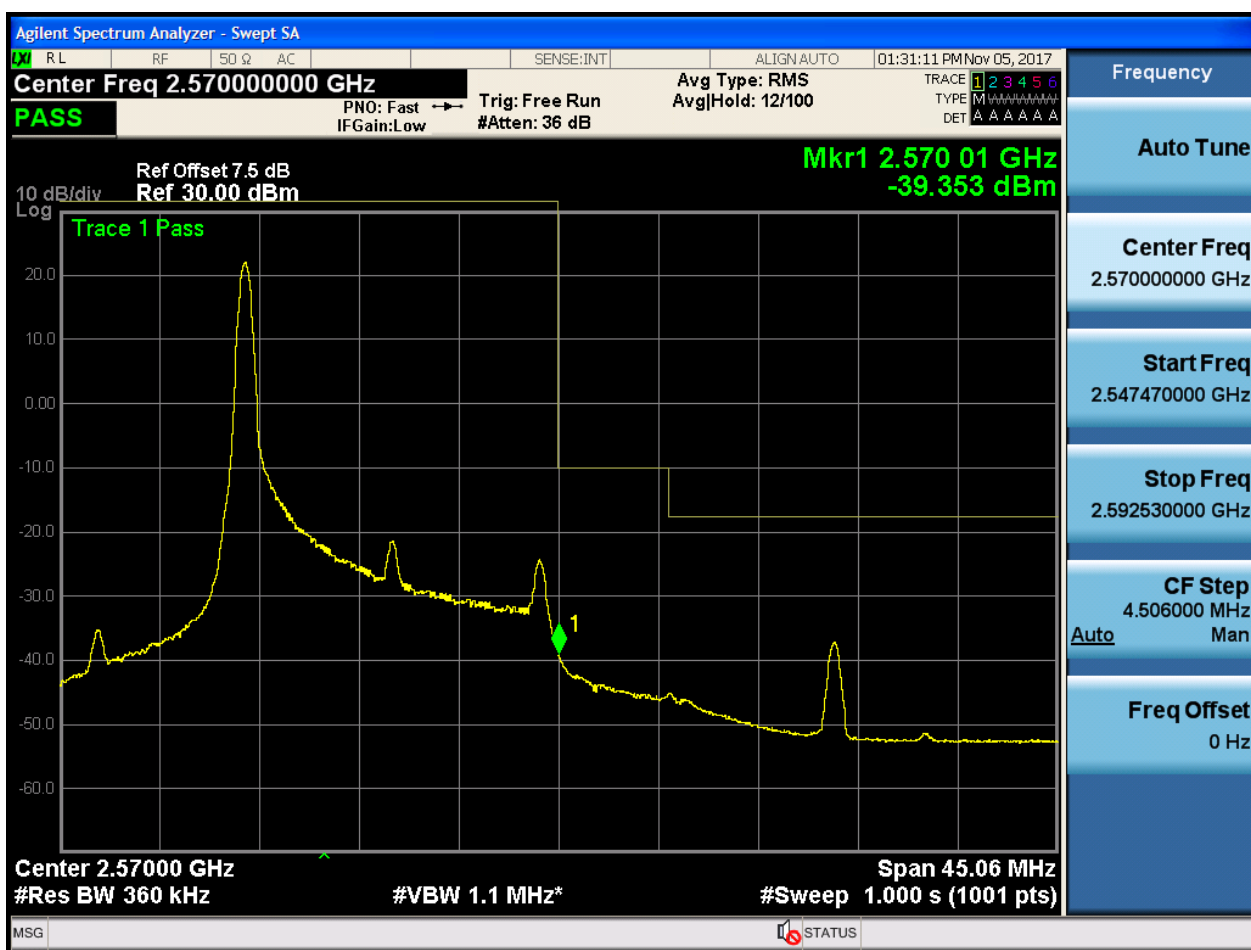
5.1.1.1.3.1.4 Test RB = RB75#0





5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:31:30 PM Nov 05, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
#Res BW 360 kHz IF Gain: Low Trig: Free Run #Atten: 36 dB

PASS PNO: Fast → TYPE M DET A A A A A A

Ref Offset 7.5 dB Ref 30.00 dBm

Mkr1 2.570 01 GHz -16.338 dBm

10 dB/div Log

Trace 1 Pass

Center 2.57000 GHz Span 45.06 MHz
#Res BW 360 kHz #VBW 1.1 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.547470000 GHz

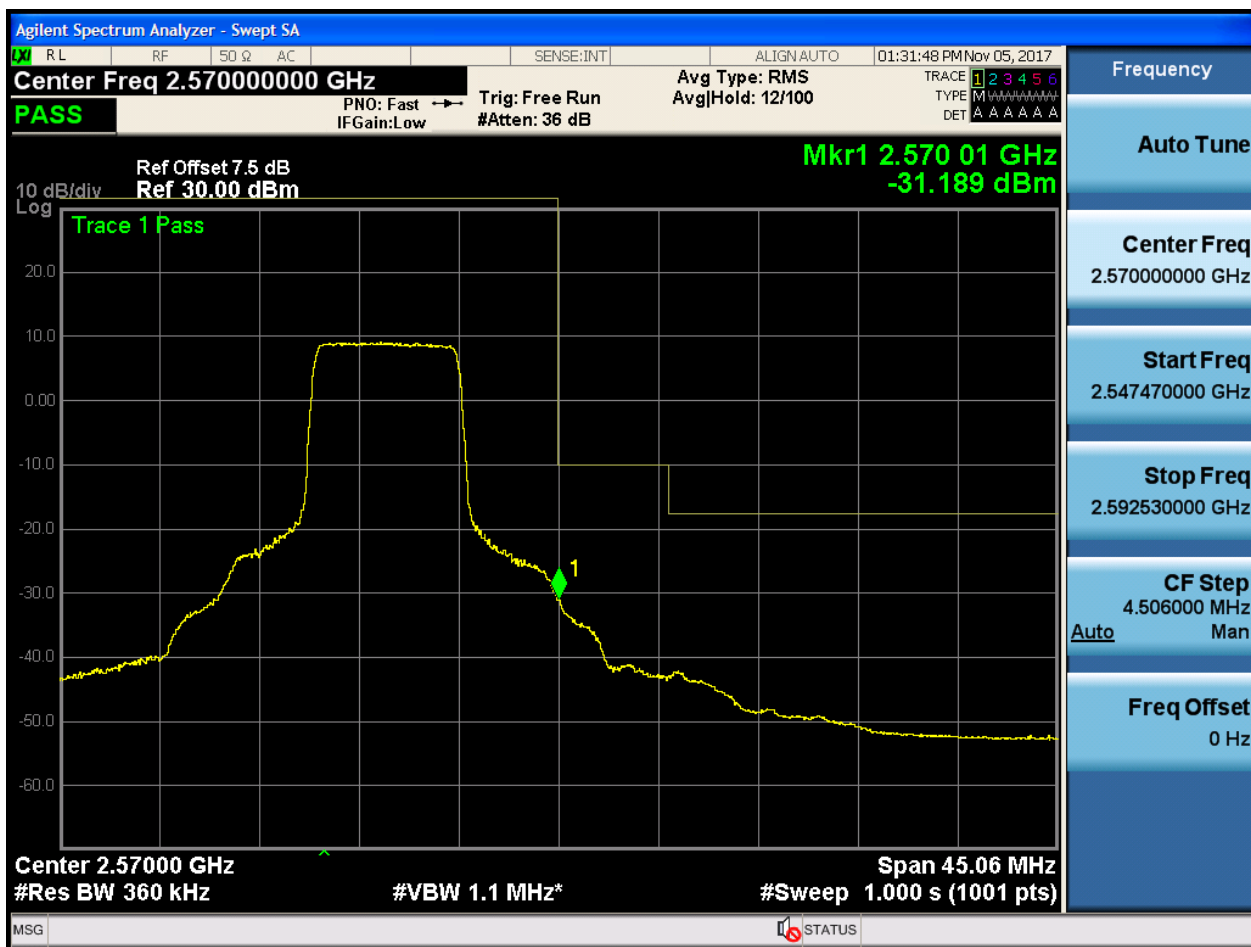
Stop Freq
2.592530000 GHz

CF Step
4.506000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.3.2.3 Test RB = RB36#18





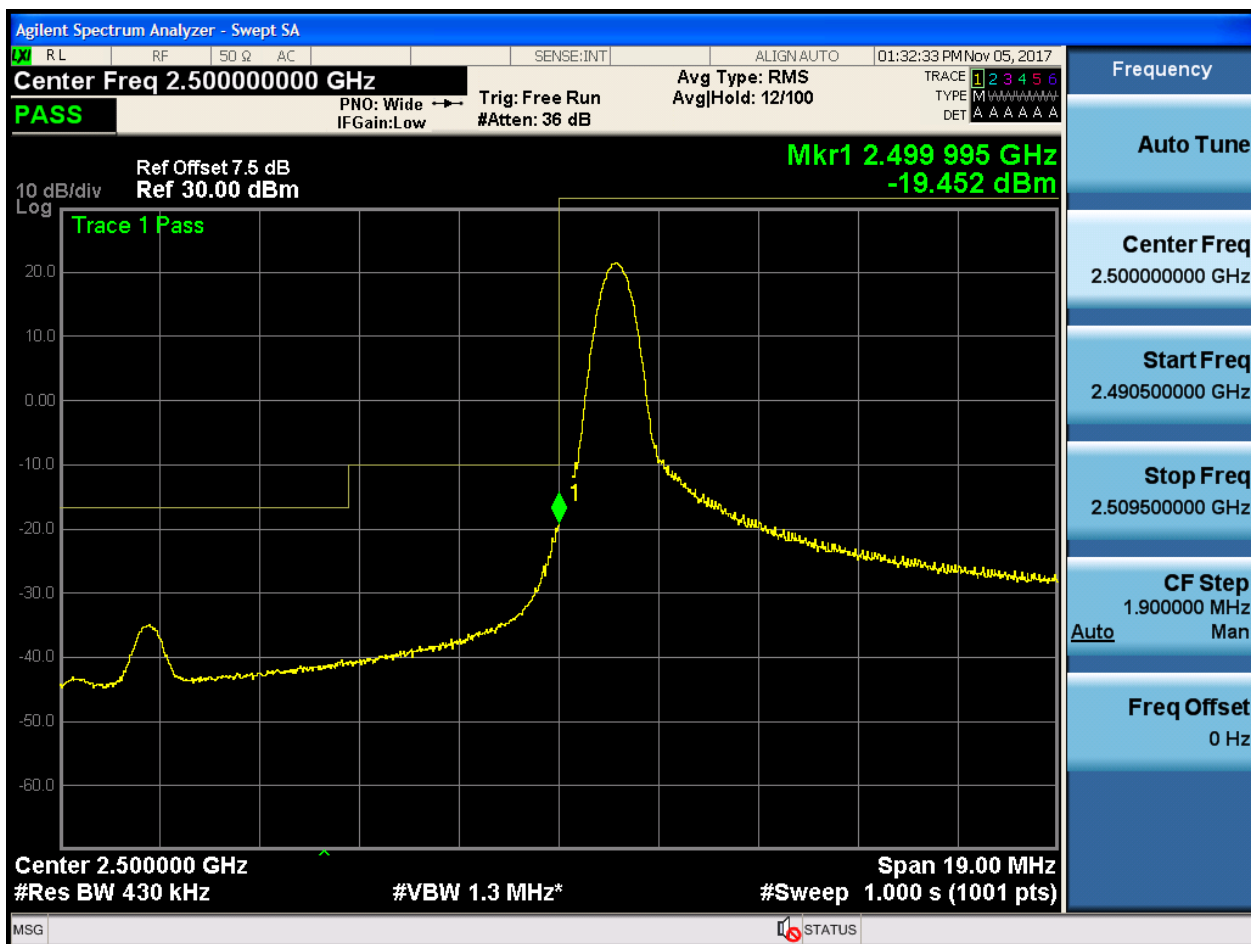
5.1.1.1.3.2.4 Test RB = RB75#0



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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:32:51 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run Avg/Hold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-38.320 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 430 kHz #VBW 1.3 MHz* Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

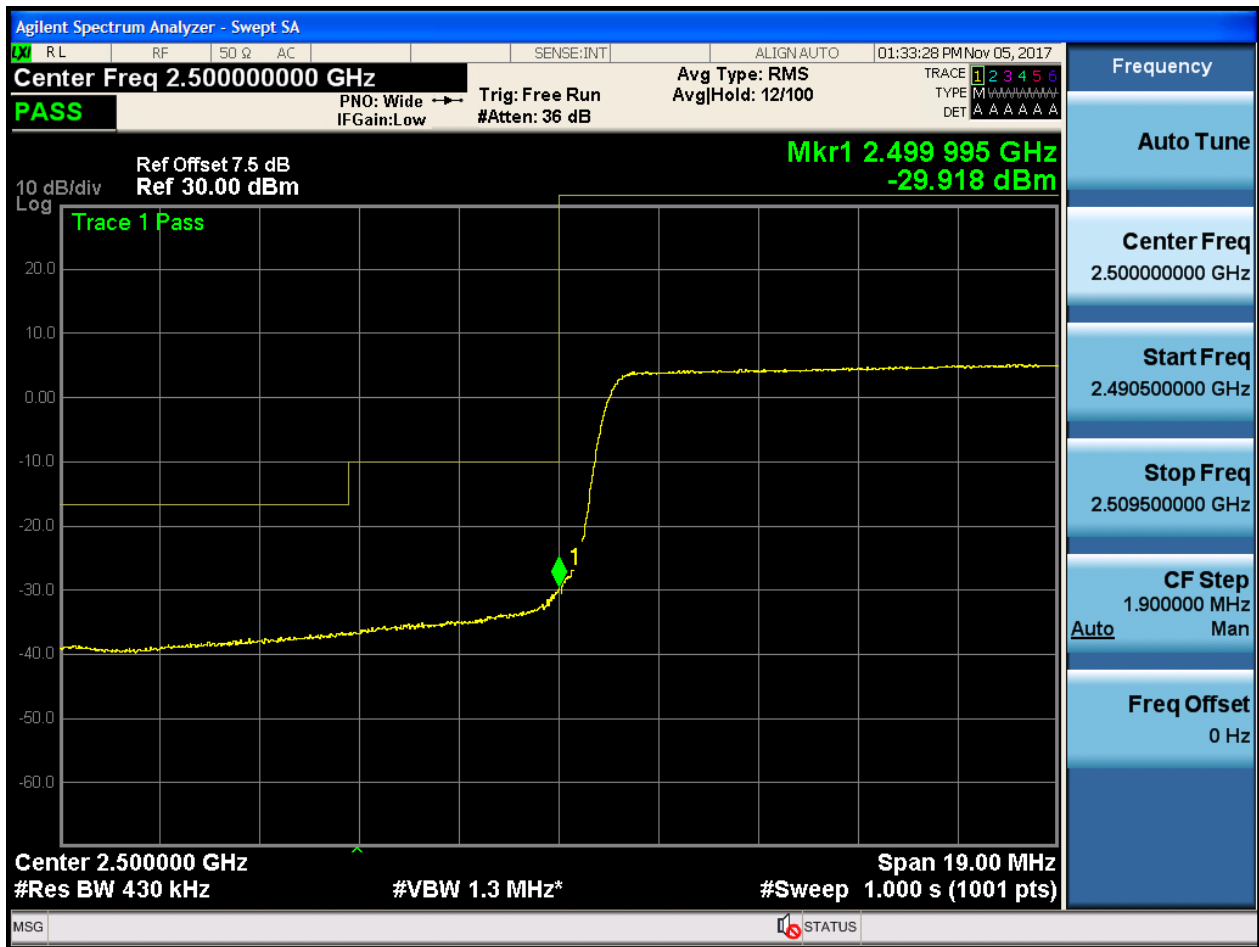


5.1.1.1.4.1.3 Test RB = RB50#25





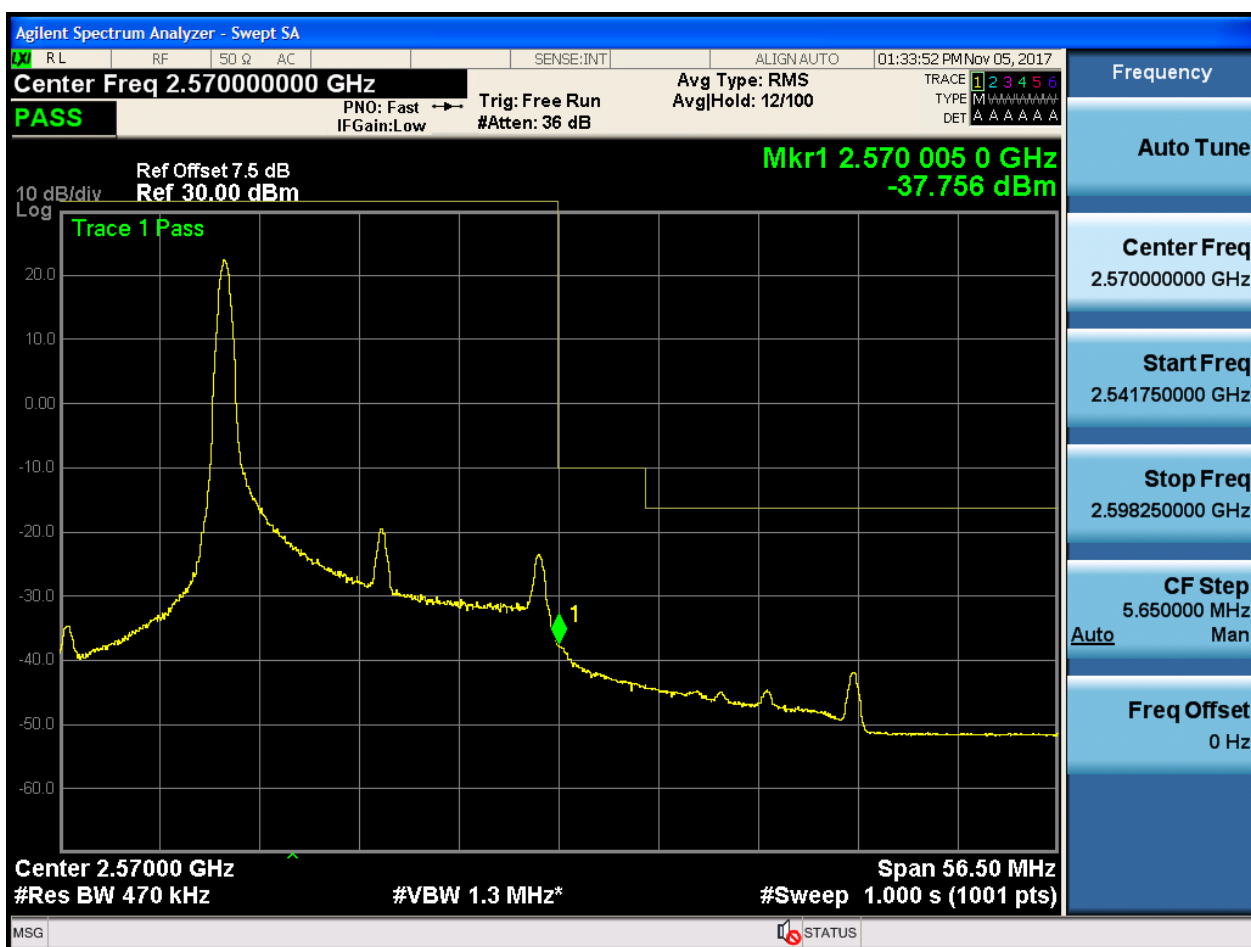
5.1.1.1.4.1.4 Test RB = RB100#0





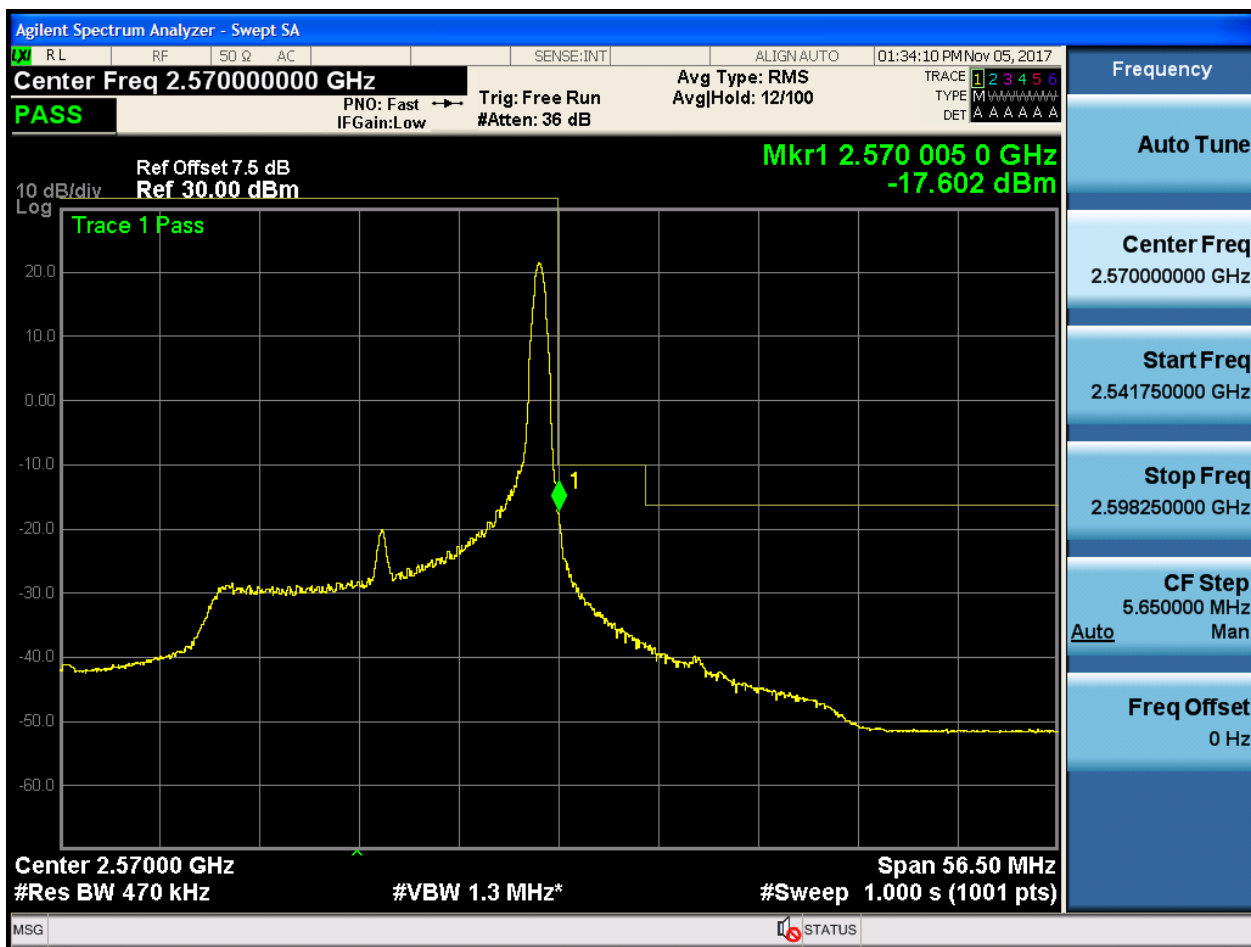
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99



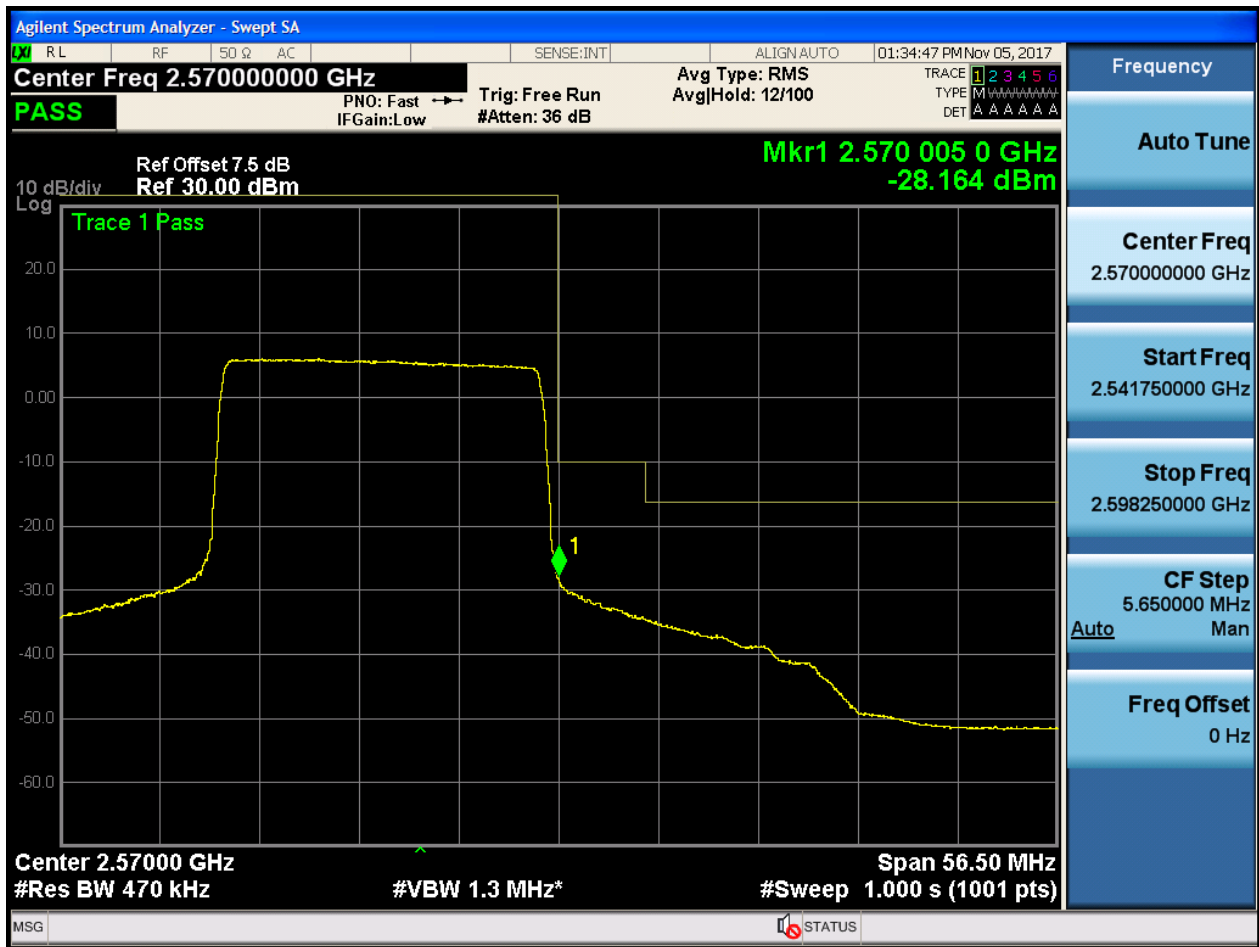


5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



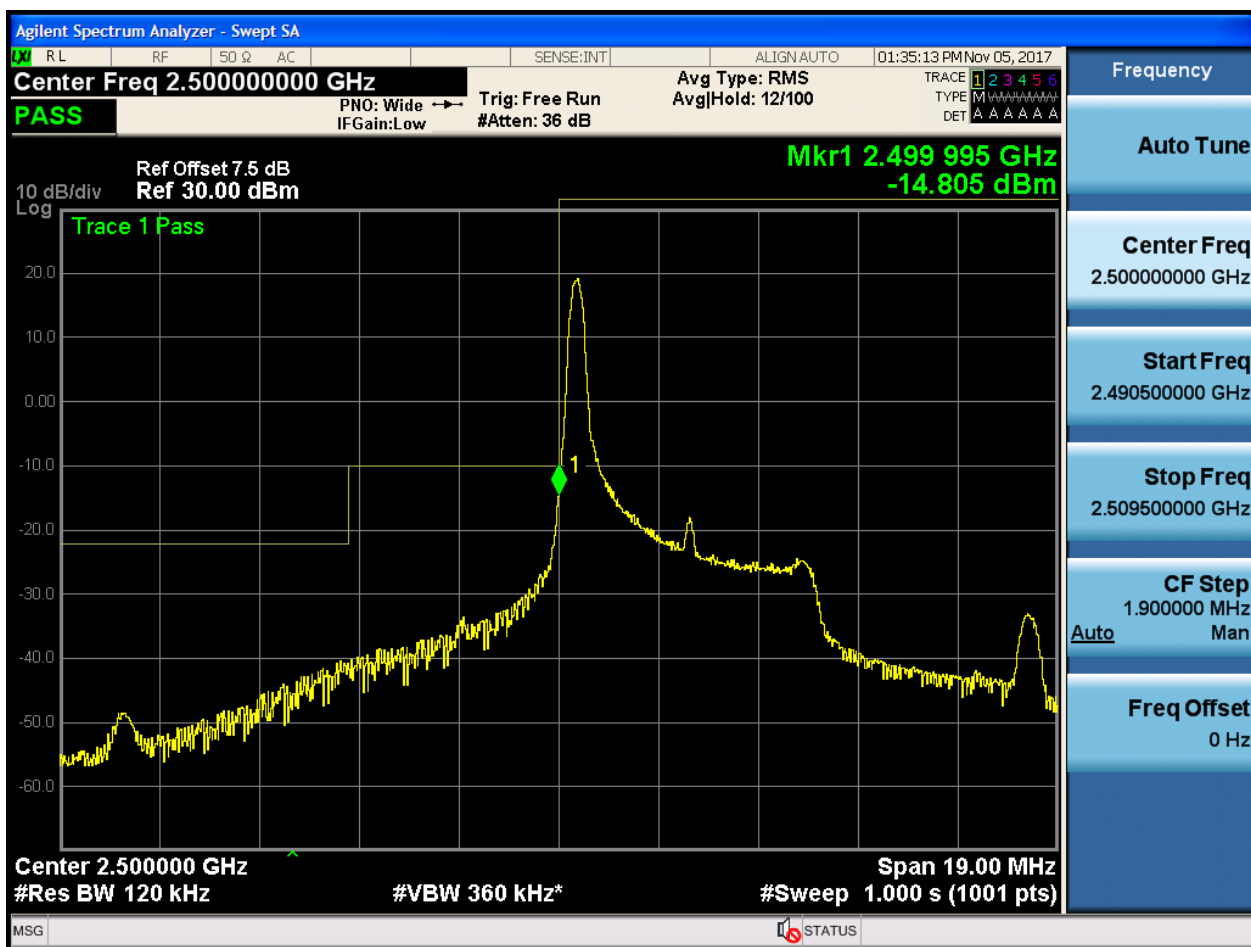


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

Ref Offset 7.5 dB
Ref 30.00 dBm

Trace 1 Pass

10 dB/div
Log

Mkr1 2.499 995 GHz
-32.157 dBm

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

Span 19.00 MHz
#Sweep 1.000 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
Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:35:50 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
#Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-27.259 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz
#Res BW 120 kHz
#VBW 360 kHz*
Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:36:08 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run Avg/Hold: 12/100
IFGain:Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-22.893 dBm

10 dB/div
Log

Trace 1 Pass

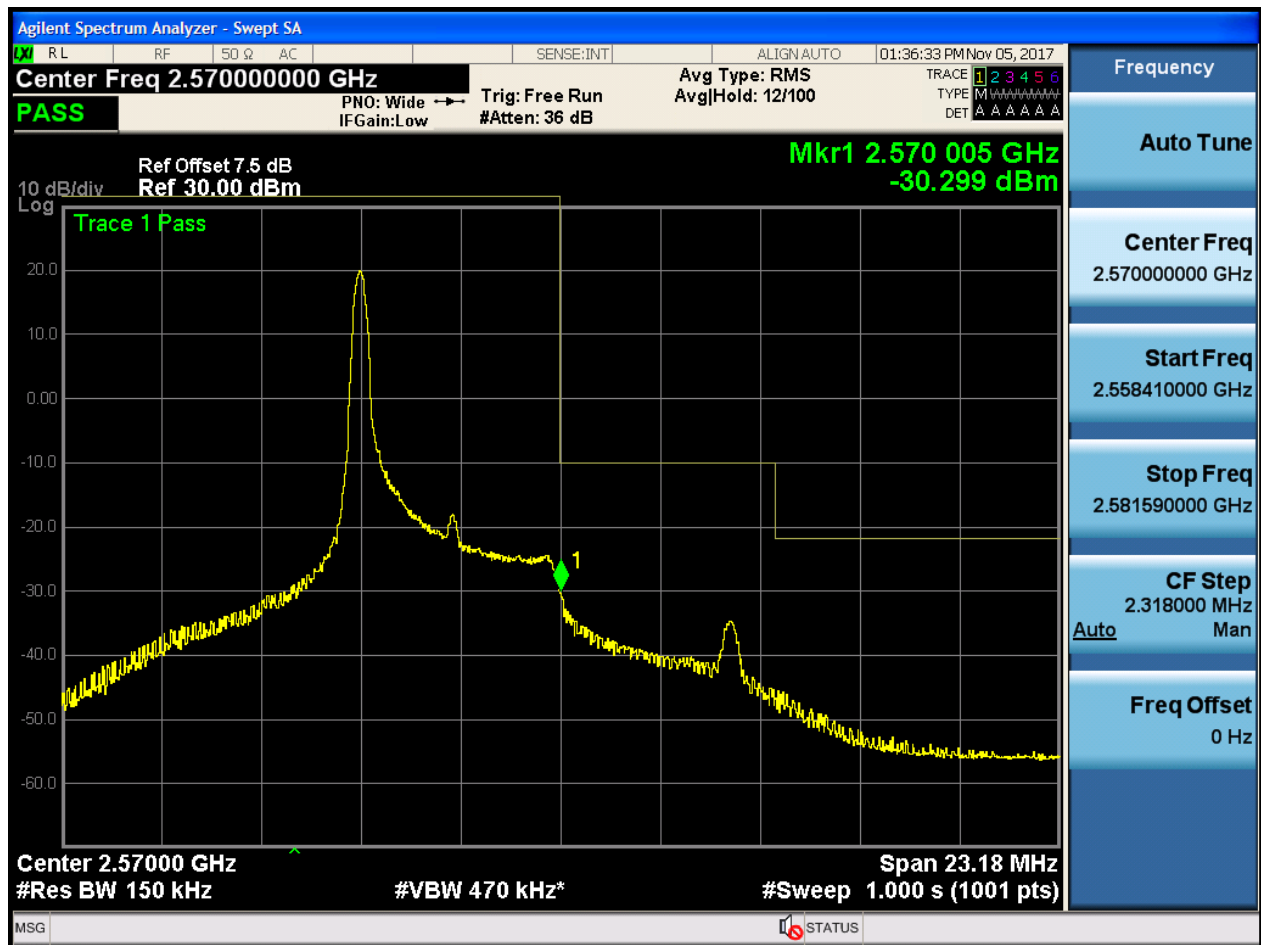
Center 2.500000 GHz
#Res BW 120 kHz #VBW 360 kHz* Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



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 01:37:11 PM Nov 05, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 150 kHz IF Gain: Low Trig: Free Run Avg Hold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-27.277 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 150 kHz
#VBW 470 kHz*
Span 23.18 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.558410000 GHz

Stop Freq
2.581590000 GHz

CF Step
2.318000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:37:30 PM Nov 05, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-23.112 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 150 kHz
#VBW 470 kHz*
Span 23.18 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.558410000 GHz

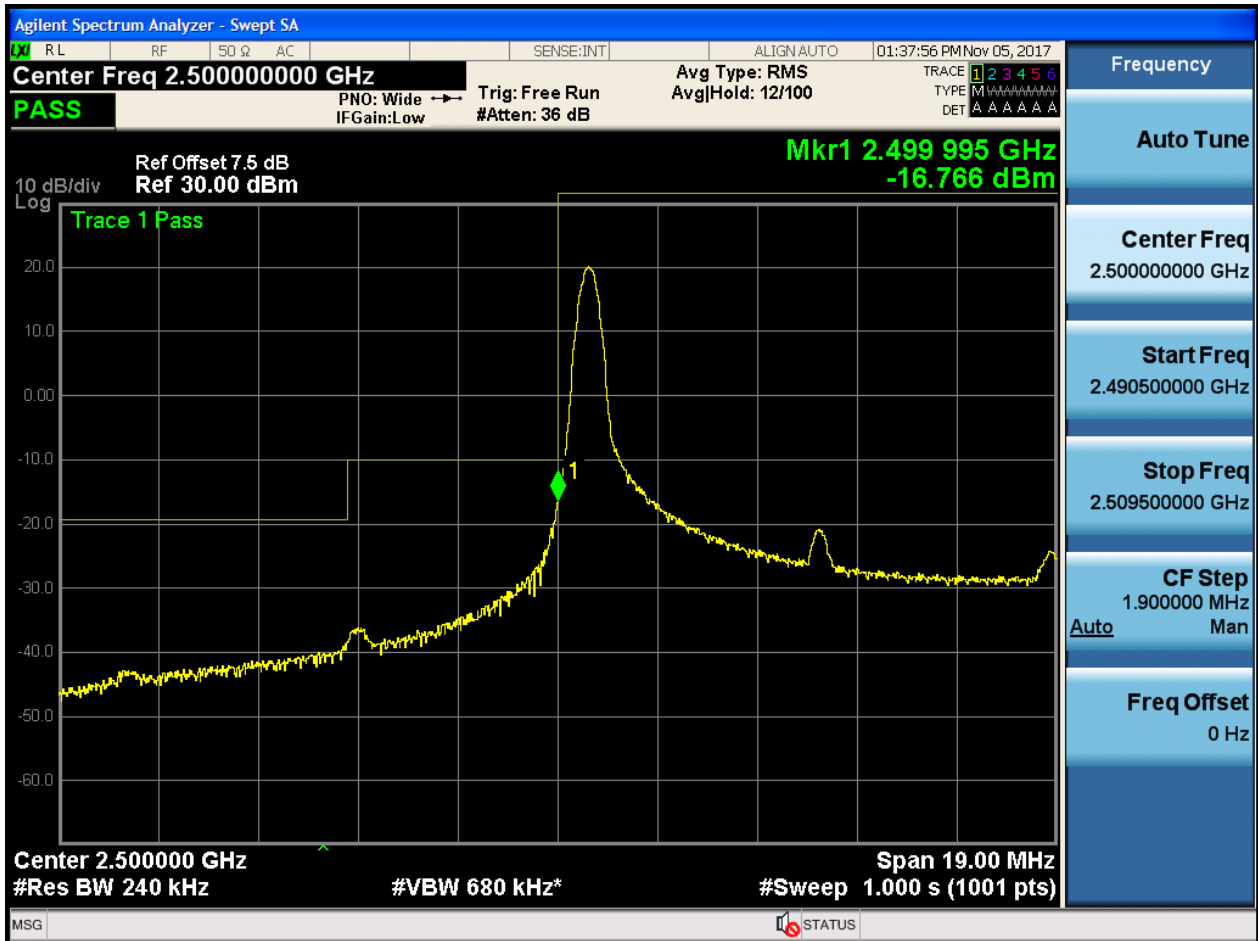
Stop Freq
2.581590000 GHz

CF Step
2.318000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:38:14 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-35.168 dBm

10 dB/div
Log

Trace 1 Pass

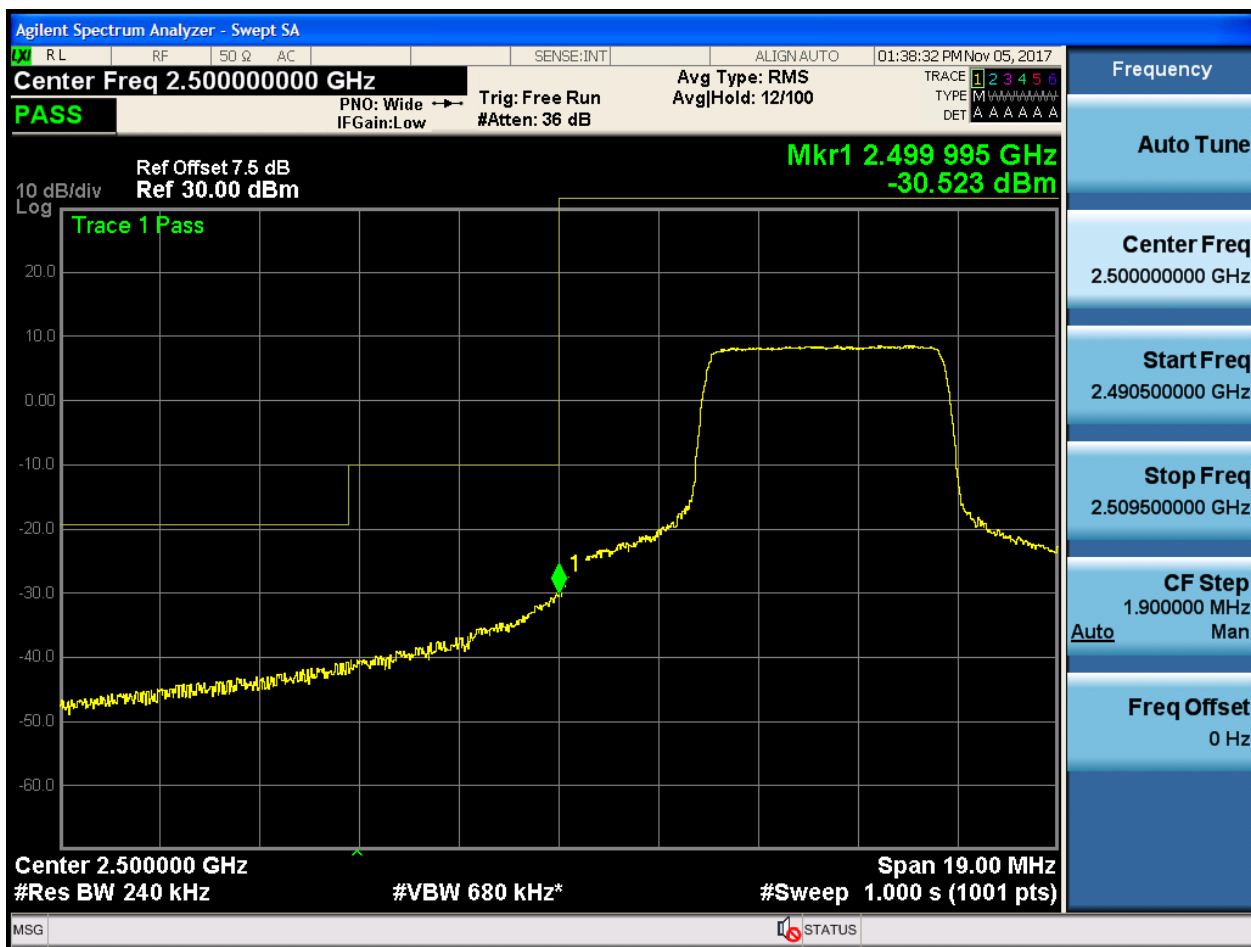
Center Freq 2.500000000 GHz
Start Freq 2.490500000 GHz
Stop Freq 2.509500000 GHz
CF Step 1.900000 MHz
Auto Man
Freq Offset 0 Hz

Center 2.500000 GHz
#Res BW 240 kHz
#VBW 680 kHz
Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.2.1.3 Test RB = RB25#13





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
-27.730 dBm

Trace 1 Pass

Center 2.500000 GHz
#Res BW 240 kHz
#VBW 680 kHz*

Span 19.00 MHz
#Sweep 1.000 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
Auto Man

Freq Offset
0 Hz

10 dB/div
Log

20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0

Center 2.500000 GHz
#Res BW 240 kHz
#VBW 680 kHz*

Span 19.00 MHz
#Sweep 1.000 s (1001 pts)

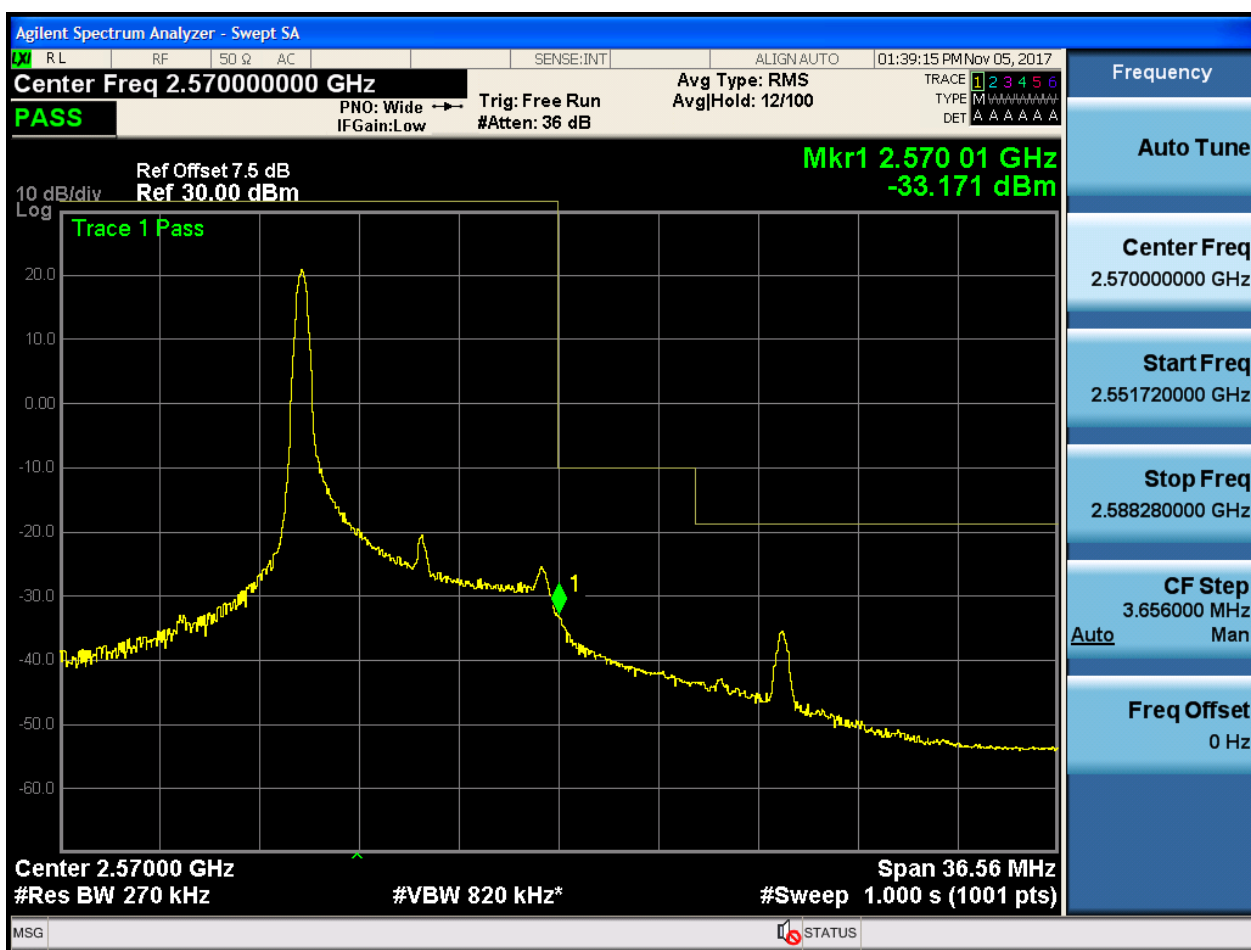
MSG

STATUS



5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:39:33 PM Nov 05, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Wide Trg: Free Run Avg/Hold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-16.261 dBm

10 dB/div
Log

Trace 1 Pass

The spectrum analyzer displays a swept spectrum. The horizontal axis represents frequency, ranging from 2.55172 GHz to 2.58280 GHz. The vertical axis represents power in dBm, ranging from -60.0 to 20.0. A yellow trace shows the signal, with a prominent peak at 2.57001 GHz. A green diamond marker is placed on this peak, labeled '1'. The peak power is -16.261 dBm. The baseline noise floor is approximately -40 dBm. The display includes various settings such as 'Center Freq 2.570000000 GHz', 'Span 36.56 MHz', and '#Res BW 270 kHz'.

Center 2.57000 GHz
#Res BW 270 kHz
#VBW 820 kHz*
Span 36.56 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.551720000 GHz

Stop Freq
2.582800000 GHz

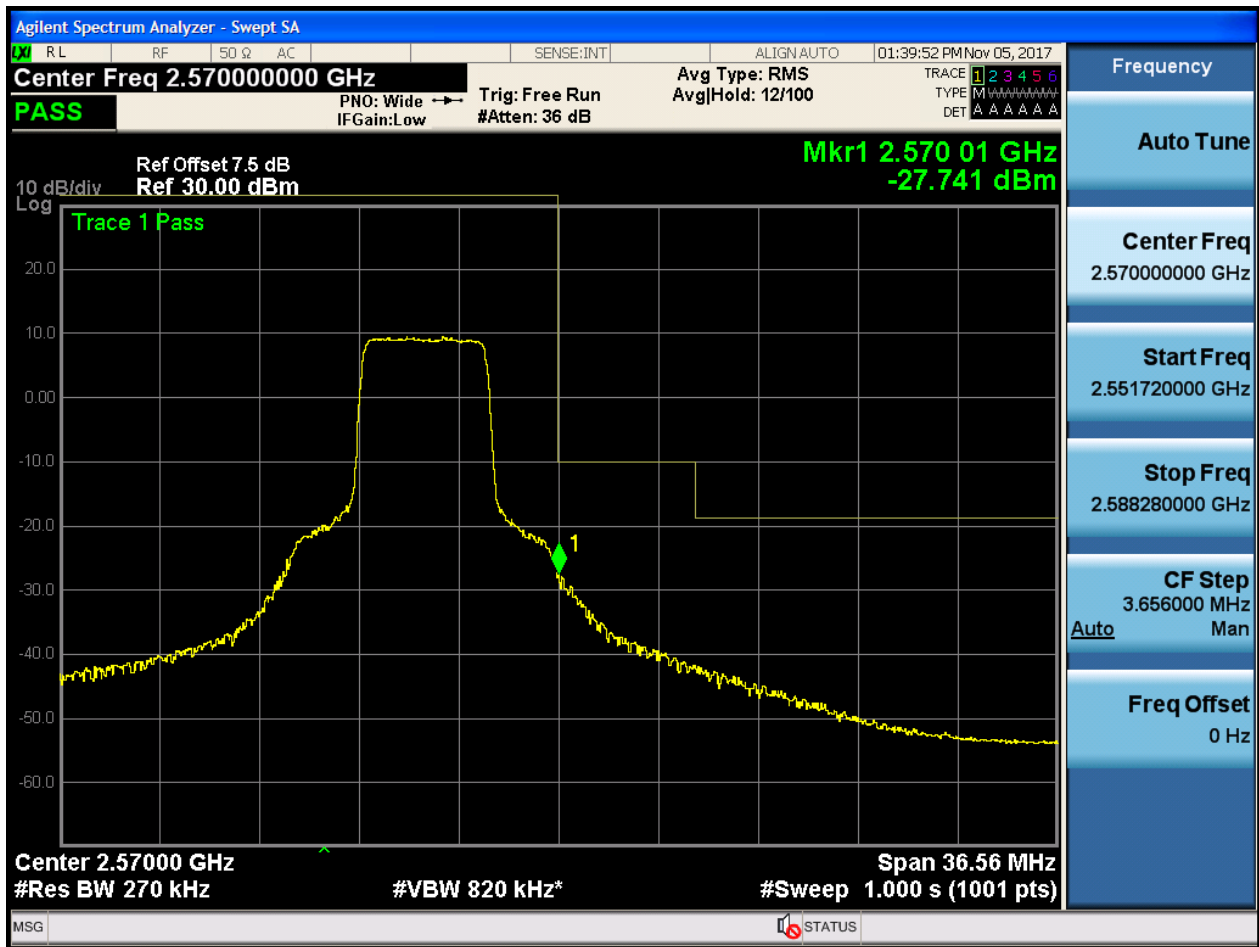
CF Step
3.656000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.2.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 01:40:10 PM Nov 05, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
#Res BW 270 kHz #VBW 820 kHz* #Sweep 1.000 s (1001 pts)

PASS PNO: Wide IF Gain: Low Trig: Free Run #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 01 GHz
-24.661 dBm

10 dB/div
Log

Trace 1 Pass

The spectrum analyzer display shows a signal trace with a peak at 2.57001 GHz. The peak is labeled '1' and has a magnitude of -24.661 dBm. The trace is labeled 'Trace 1 Pass'. The frequency range is from 2.55172 GHz to 2.58828 GHz. The center frequency is 2.57000 GHz. The resolution bandwidth is 270 kHz. The video bandwidth is 820 kHz. The sweep time is 1.000 s (1001 pts). The reference level is 30.00 dBm. The reference offset is 7.5 dB. The peak is marked with a green diamond.

Center 2.57000 GHz
#Res BW 270 kHz
#VBW 820 kHz*
Span 36.56 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.551720000 GHz

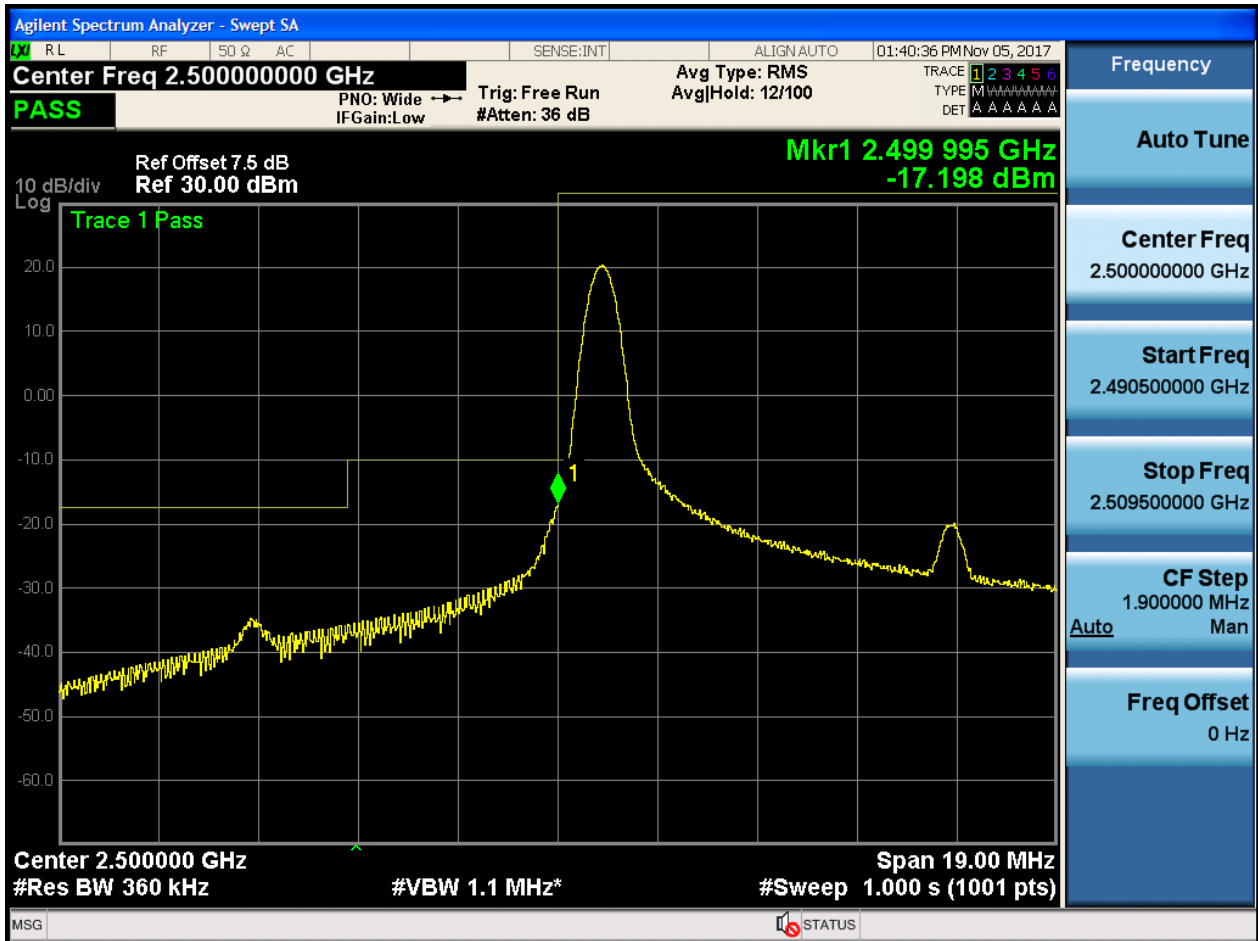
Stop Freq
2.588280000 GHz

CF Step
3.656000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.3.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:40:54 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
 PASS PNO: Wide IF Gain: Low Trig: Free Run Avg Hold: 12/100
 #Atten: 36 dB

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

Ref Offset 7.5 dB
 Ref 30.00 dBm

Mkr1 2.499 995 GHz
 -37.417 dBm

10 dB/div
 Log

Trace 1 Pass

Center 2.500000 GHz
 #Res BW 360 kHz
 #VBW 1.1 MHz*
 Span 19.00 MHz
 #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
 2.500000000 GHz

Start Freq
 2.490500000 GHz

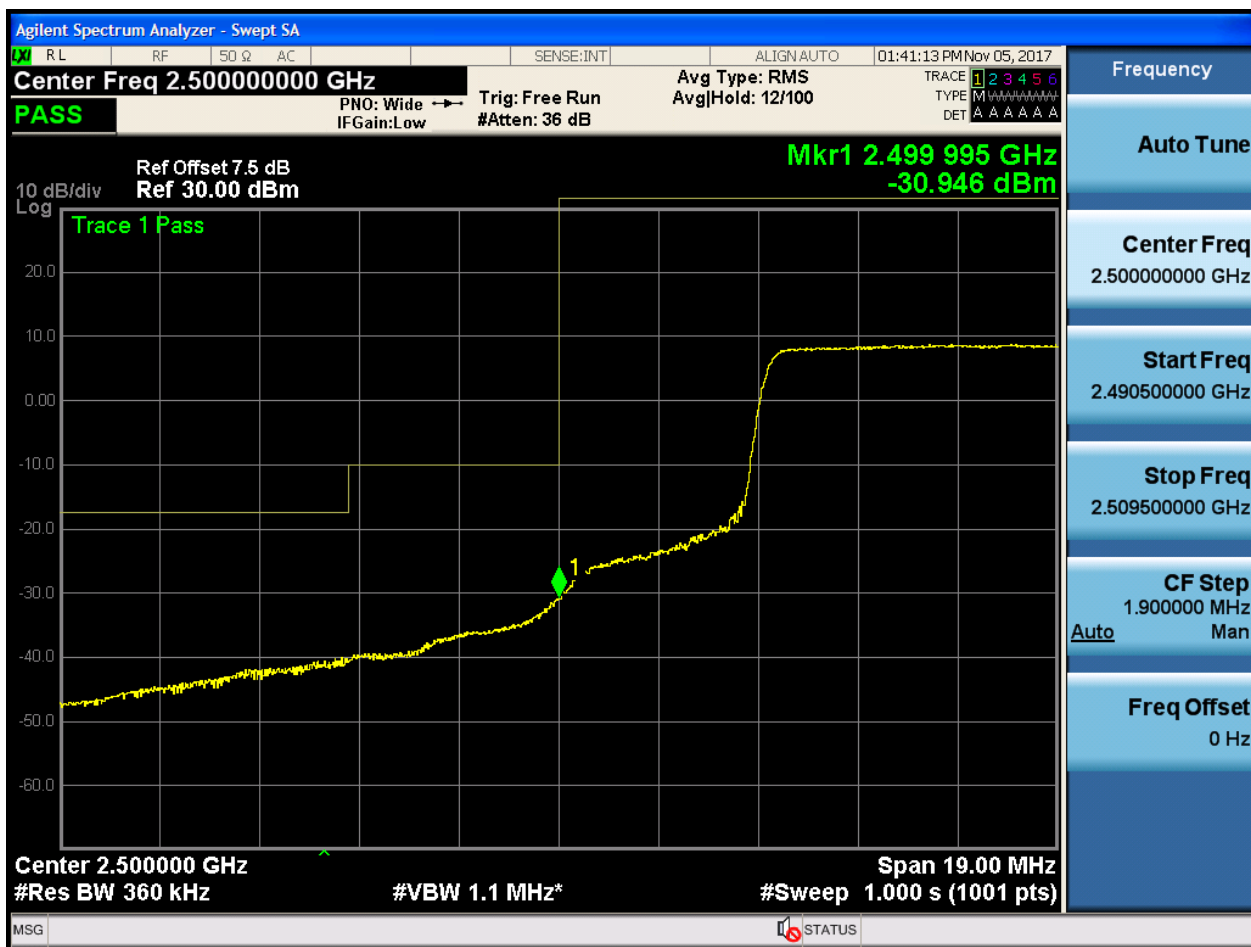
Stop Freq
 2.509500000 GHz

CF Step
 1.900000 MHz
 Auto Man

Freq Offset
 0 Hz



5.1.1.2.3.1.3 Test RB = RB36#18





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:41:31 PM Nov 05, 2017

Center Freq 2.50000000 GHz Avg Type: RMS
PASS PNO: Wide Trig: Free Run AvgHold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-27.470 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 360 kHz #VBW 1.1 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

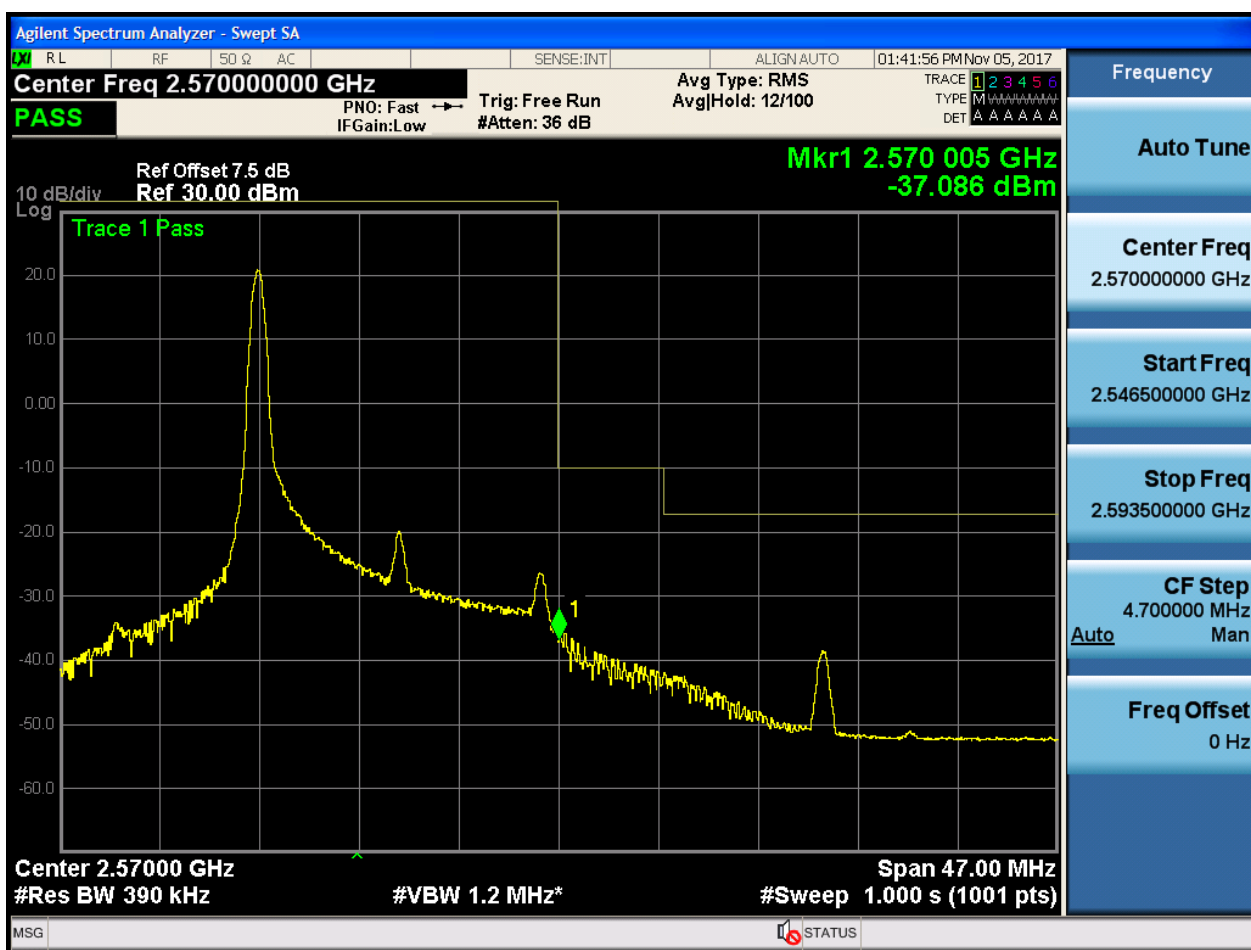
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



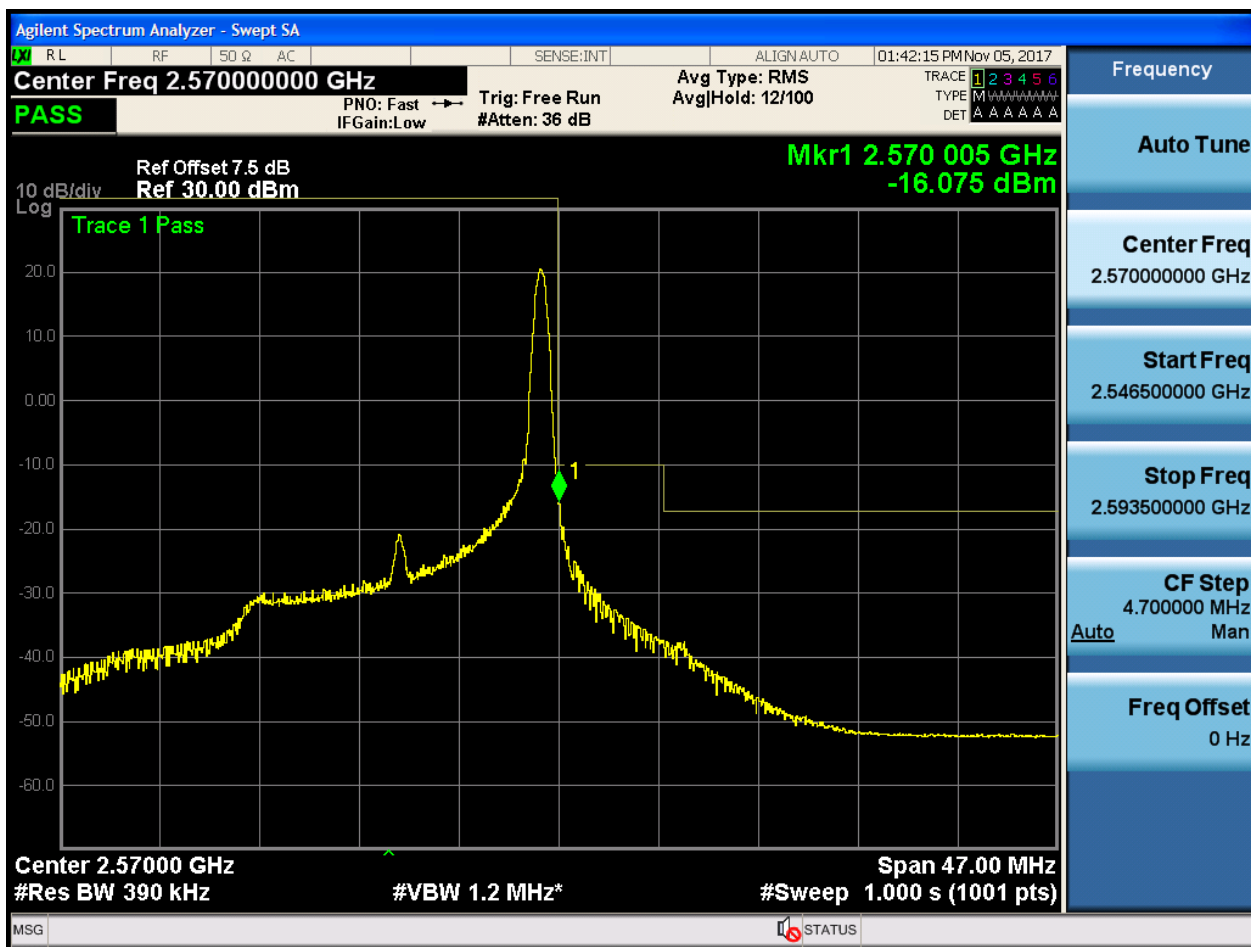
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:42:34 PM Nov 05, 2017

Center Freq 2.570000000 GHz Avg Type: RMS
PASS PNO: Fast Trig: Free Run Avg/Hold: 12/100
IFGain: Low #Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-30.381 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 47.00 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.546500000 GHz

Stop Freq
2.593500000 GHz

CF Step
4.700000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:42:54 PM Nov 05, 2017

Center Freq 2.57000000 GHz Avg Type: RMS
PNO: Fast Trig: Free Run
IFGain: Low #Atten: 36 dB

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.570 005 GHz
-25.466 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz
Span 47.00 MHz
#Sweep 1.000 s (1001 pts)

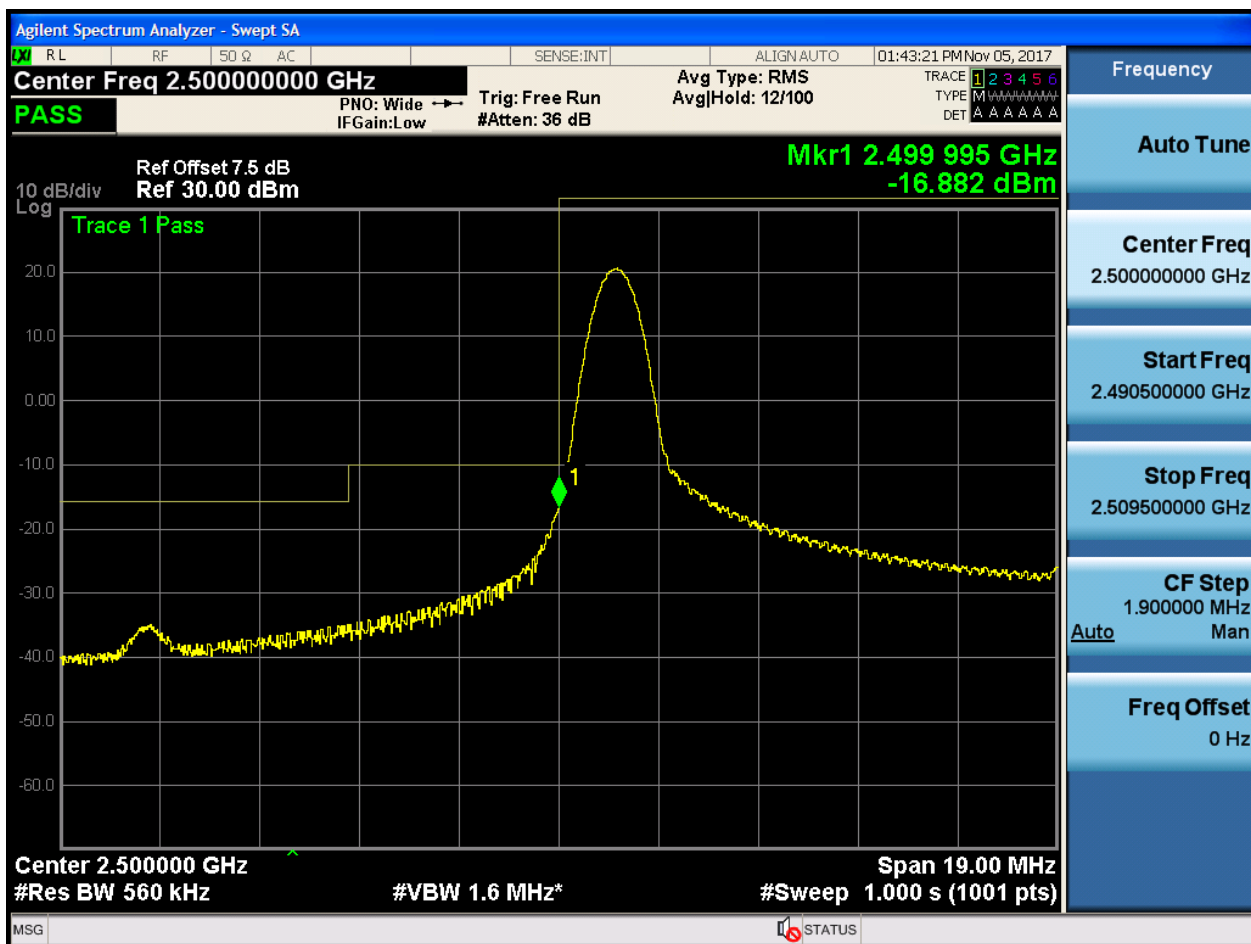
MSG STATUS



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





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:43:41 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 560 kHz #VBW 1.6 MHz* #Sweep 1.000 s (1001 pts)

PASS PNO: Wide Trig: Free Run
IFGain:Low #Atten: 36 dB

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

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

10 dB/div
Log

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-36.030 dBm

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:44:00 PM Nov 05, 2017

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Wide IFGain:Low Trig: Free Run AvgHold: 12/100
#Atten: 36 dB

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

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-31.498 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 560 kHz #VBW 1.6 MHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.2.4.1.4 Test RB = RB100#0

