



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	21.86	20.07	33	PASS
				RB1#13	22.11	20.32	33	PASS
				RB1#24	22.06	20.27	33	PASS
				RB12#0	20.98	19.19	33	PASS
				RB12#6	21.11	19.32	33	PASS
				RB12#13	21.11	19.32	33	PASS
				RB25#0	21.04	19.25	33	PASS
			MCH	RB1#0	22.24	20.45	33	PASS
				RB1#13	22.13	20.34	33	PASS
				RB1#24	22.1	20.31	33	PASS
				RB12#0	20.98	19.19	33	PASS
				RB12#6	21.03	19.24	33	PASS
				RB12#13	20.92	19.13	33	PASS
				RB25#0	20.95	19.16	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.91	20.12	33	PASS
				RB1#13	22.06	20.27	33	PASS
				RB1#24	22.11	20.32	33	PASS
				RB12#0	21.23	19.44	33	PASS
				RB12#6	21.27	19.48	33	PASS
				RB12#13	21.14	19.35	33	PASS
				RB25#0	21.18	19.39	33	PASS
		10	LCH	RB1#0	22.12	20.33	33	PASS
				RB1#25	22.24	20.45	33	PASS
				RB1#49	22.29	20.5	33	PASS
				RB25#0	20.95	19.16	33	PASS
				RB25#13	21.15	19.36	33	PASS
				RB25#25	20.97	19.18	33	PASS
				RB50#0	21.02	19.23	33	PASS
			MCH	RB1#0	22.21	20.42	33	PASS
				RB1#25	22.43	20.64	33	PASS
				RB1#49	22.31	20.52	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	21	19.21	33	PASS
				RB25#13	21.06	19.27	33	PASS
				RB25#25	20.94	19.15	33	PASS
				RB50#0	20.92	19.13	33	PASS
			HCH	RB1#0	22.18	20.39	33	PASS
				RB1#25	22.24	20.45	33	PASS
				RB1#49	22.11	20.32	33	PASS
				RB25#0	21.11	19.32	33	PASS
				RB25#13	21.28	19.49	33	PASS
				RB25#25	21.14	19.35	33	PASS
				RB50#0	21.14	19.35	33	PASS
		15	LCH	RB1#0	22.29	20.5	33	PASS
				RB1#38	22.67	20.88	33	PASS
				RB1#74	22.25	20.46	33	PASS
				RB38#0	21.06	19.27	33	PASS
				RB38#19	21.14	19.35	33	PASS
				RB38#39	21.08	19.29	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.04	19.25	33	PASS
			MCH	RB1#0	22.24	20.45	33	PASS
				RB1#38	22.27	20.48	33	PASS
				RB1#74	22.3	20.51	33	PASS
				RB38#0	20.99	19.2	33	PASS
				RB38#19	21.07	19.28	33	PASS
				RB38#39	20.94	19.15	33	PASS
				RB75#0	20.87	19.08	33	PASS
			HCH	RB1#0	22.14	20.35	33	PASS
				RB1#38	22.07	20.28	33	PASS
				RB1#74	22.1	20.31	33	PASS
				RB38#0	21.11	19.32	33	PASS
				RB38#19	21.27	19.48	33	PASS
				RB38#39	21.22	19.43	33	PASS
				RB75#0	21.12	19.33	33	PASS
		20	LCH	RB1#0	21.81	20.02	33	PASS
				RB1#50	22.24	20.45	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	21.55	19.76	33	PASS
				RB50#0	21.09	19.3	33	PASS
				RB50#25	21.18	19.39	33	PASS
				RB50#50	21.08	19.29	33	PASS
				RB100#0	21.09	19.3	33	PASS
			MCH	RB1#0	21.78	19.99	33	PASS
				RB1#50	22.11	20.32	33	PASS
				RB1#99	21.91	20.12	33	PASS
				RB50#0	21	19.21	33	PASS
				RB50#25	21.1	19.31	33	PASS
				RB50#50	20.9	19.11	33	PASS
				RB100#0	20.96	19.17	33	PASS
			HCH	RB1#0	21.92	20.13	33	PASS
				RB1#50	22.23	20.44	33	PASS
				RB1#99	22.01	20.22	33	PASS
				RB50#0	21.13	19.34	33	PASS
				RB50#25	21.26	19.47	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	21.17	19.38	33	PASS
				RB100#0	21.17	19.38	33	PASS
	LTE/TM2	5	LCH	RB1#0	20.97	19.18	33	PASS
				RB1#13	21.23	19.44	33	PASS
				RB1#24	21.1	19.31	33	PASS
				RB12#0	20.05	18.26	33	PASS
				RB12#6	20.2	18.41	33	PASS
				RB12#13	20.19	18.4	33	PASS
				RB25#0	20.03	18.24	33	PASS
			MCH	RB1#0	20.55	18.76	33	PASS
				RB1#13	21.01	19.22	33	PASS
				RB1#24	20.6	18.81	33	PASS
				RB12#0	19.82	18.03	33	PASS
				RB12#6	19.88	18.09	33	PASS
				RB12#13	20.09	18.3	33	PASS
				RB25#0	20.02	18.23	33	PASS
			HCH	RB1#0	20.93	19.14	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	20.92	19.13	33	PASS
				RB1#24	20.93	19.14	33	PASS
				RB12#0	20.01	18.22	33	PASS
				RB12#6	20.05	18.26	33	PASS
				RB12#13	20.03	18.24	33	PASS
				RB25#0	20.15	18.36	33	PASS
		10	LCH	RB1#0	20.81	19.02	33	PASS
				RB1#25	21.45	19.66	33	PASS
				RB1#49	20.41	18.62	33	PASS
				RB25#0	19.82	18.03	33	PASS
				RB25#13	20.03	18.24	33	PASS
				RB25#25	19.94	18.15	33	PASS
				RB50#0	19.89	18.1	33	PASS
			MCH	RB1#0	20.98	19.19	33	PASS
				RB1#25	20.97	19.18	33	PASS
				RB1#49	20.33	18.54	33	PASS
				RB25#0	19.89	18.1	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.15	18.36	33	PASS
				RB25#25	19.83	18.04	33	PASS
				RB50#0	19.93	18.14	33	PASS
			HCH	RB1#0	21.13	19.34	33	PASS
				RB1#25	21.41	19.62	33	PASS
				RB1#49	20.77	18.98	33	PASS
				RB25#0	20.13	18.34	33	PASS
				RB25#13	20.32	18.53	33	PASS
				RB25#25	20.19	18.4	33	PASS
				RB50#0	20.19	18.4	33	PASS
		15	LCH	RB1#0	21.31	19.52	33	PASS
				RB1#38	21.41	19.62	33	PASS
				RB1#74	21	19.21	33	PASS
				RB38#0	20.01	18.22	33	PASS
				RB38#19	20.09	18.3	33	PASS
				RB38#39	20.02	18.23	33	PASS
				RB75#0	20.07	18.28	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	20.89	19.1	33	PASS
				RB1#38	21.02	19.23	33	PASS
				RB1#74	20.28	18.49	33	PASS
				RB38#0	20.05	18.26	33	PASS
				RB38#19	20.14	18.35	33	PASS
				RB38#39	20.09	18.3	33	PASS
				RB75#0	20.01	18.22	33	PASS
			HCH	RB1#0	21.28	19.49	33	PASS
				RB1#38	21.28	19.49	33	PASS
				RB1#74	21.08	19.29	33	PASS
				RB38#0	19.99	18.2	33	PASS
				RB38#19	20.16	18.37	33	PASS
				RB38#39	20.14	18.35	33	PASS
				RB75#0	20.07	18.28	33	PASS
		20	LCH	RB1#0	21.24	19.45	33	PASS
				RB1#50	21.62	19.83	33	PASS
				RB1#99	21.25	19.46	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.01	18.22	33	PASS
				RB50#25	20.1	18.31	33	PASS
				RB50#50	20.09	18.3	33	PASS
				RB100#0	20.03	18.24	33	PASS
			MCH	RB1#0	20.68	18.89	33	PASS
				RB1#50	21.13	19.34	33	PASS
				RB1#99	20.82	19.03	33	PASS
				RB50#0	19.95	18.16	33	PASS
				RB50#25	20.05	18.26	33	PASS
				RB50#50	20.03	18.24	33	PASS
				RB100#0	19.91	18.12	33	PASS
			HCH	RB1#0	20.78	18.99	33	PASS
				RB1#50	21.57	19.78	33	PASS
				RB1#99	20.88	19.09	33	PASS
				RB50#0	19.96	18.17	33	PASS
				RB50#25	20.2	18.41	33	PASS
				RB50#50	20.13	18.34	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.12	18.33	33	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

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

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

b, SGP = Signal Generator Level

Note2:

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

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

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

SET Sweep time = auto - couple.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	4.12	13	PASS
				RB1#13	4	13	PASS
				RB1#24	4.24	13	PASS
				RB12#0	4.99	13	PASS
				RB12#6	4.79	13	PASS
				RB12#13	4.9	13	PASS
				RB25#0	5.45	13	PASS
			MCH	RB1#0	4.29	13	PASS
				RB1#13	4.2	13	PASS
				RB1#24	4.37	13	PASS
				RB12#0	5.15	13	PASS
				RB12#6	4.98	13	PASS
				RB12#13	5.12	13	PASS
				RB25#0	5.56	13	PASS
			HCH	RB1#0	3.85	13	PASS
				RB1#13	3.77	13	PASS
				RB1#24	3.64	13	PASS
				RB12#0	4.83	13	PASS
				RB12#6	4.55	13	PASS
				RB12#13	4.8	13	PASS
				RB25#0	5.37	13	PASS
		10	LCH	RB1#0	4.07	13	PASS
				RB1#25	3.94	13	PASS
				RB1#49	4.13	13	PASS
				RB25#0	5	13	PASS
				RB25#13	4.87	13	PASS
				RB25#25	5.03	13	PASS
				RB50#0	5.55	13	PASS
			MCH	RB1#0	4.17	13	PASS
				RB1#25	3.89	13	PASS
				RB1#49	4.15	13	PASS
				RB25#0	5.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	5.05	13	PASS
				RB25#25	5.14	13	PASS
				RB50#0	5.82	13	PASS
			HCH	RB1#0	3.91	13	PASS
				RB1#25	3.58	13	PASS
				RB1#49	3.67	13	PASS
				RB25#0	4.87	13	PASS
				RB25#13	4.74	13	PASS
				RB25#25	4.77	13	PASS
				RB50#0	5.34	13	PASS
		15	LCH	RB1#0	4.03	13	PASS
				RB1#38	3.99	13	PASS
				RB1#74	4.18	13	PASS
				RB38#0	4.97	13	PASS
				RB38#19	5.02	13	PASS
				RB38#39	5.08	13	PASS
				RB75#0	5.73	13	PASS
			MCH	RB1#0	4.12	13	PASS
				RB1#38	4.15	13	PASS
				RB1#74	4.15	13	PASS
				RB38#0	5.12	13	PASS
				RB38#19	5.09	13	PASS
				RB38#39	5.15	13	PASS
				RB75#0	5.91	13	PASS
			HCH	RB1#0	4.09	13	PASS
				RB1#38	3.86	13	PASS
				RB1#74	3.72	13	PASS
				RB38#0	4.96	13	PASS
				RB38#19	4.77	13	PASS
				RB38#39	4.83	13	PASS
				RB75#0	5.47	13	PASS
		20	LCH	RB1#0	4.37	13	PASS
				RB1#50	4.31	13	PASS
				RB1#99	4.38	13	PASS
				RB50#0	5.03	13	PASS
				RB50#25	4.95	13	PASS
				RB50#50	5.13	13	PASS
				RB100#0	5.93	13	PASS
			MCH	RB1#0	4.44	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	4.45	13	PASS
				RB1#99	4.36	13	PASS
				RB50#0	5.2	13	PASS
				RB50#25	5.12	13	PASS
				RB50#50	5.27	13	PASS
				RB100#0	5.38	13	PASS
			HCH	RB1#0	4.23	13	PASS
				RB1#50	3.9	13	PASS
				RB1#99	3.85	13	PASS
				RB50#0	5.08	13	PASS
				RB50#25	4.91	13	PASS
				RB50#50	4.87	13	PASS
				RB100#0	5.2	13	PASS
	LTE/TM2	5	LCH	RB1#0	5.29	13	PASS
				RB1#13	5.04	13	PASS
				RB1#24	5.24	13	PASS
				RB12#0	5.88	13	PASS
				RB12#6	5.69	13	PASS
				RB12#13	5.84	13	PASS
				RB25#0	6.41	13	PASS
			MCH	RB1#0	5.45	13	PASS
				RB1#13	5.36	13	PASS
				RB1#24	5.47	13	PASS
				RB12#0	6.11	13	PASS
				RB12#6	5.99	13	PASS
				RB12#13	6.05	13	PASS
				RB25#0	6.73	13	PASS
		10	HCH	RB1#0	4.58	13	PASS
				RB1#13	4.39	13	PASS
				RB1#24	4.67	13	PASS
				RB12#0	5.84	13	PASS
				RB12#6	5.66	13	PASS
				RB12#13	5.6	13	PASS
				RB25#0	6.33	13	PASS
			LCH	RB1#0	5.15	13	PASS
				RB1#25	5.4	13	PASS
				RB1#49	5.62	13	PASS
				RB25#0	6.16	13	PASS
				RB25#13	6.11	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	6.35	13	PASS
				RB50#0	6.65	13	PASS
			MCH	RB1#0	5.41	13	PASS
				RB1#25	4.99	13	PASS
				RB1#49	5.33	13	PASS
				RB25#0	6.23	13	PASS
				RB25#13	6.04	13	PASS
				RB25#25	6.14	13	PASS
				RB50#0	6.49	13	PASS
			HCH	RB1#0	4.96	13	PASS
				RB1#25	4.17	13	PASS
				RB1#49	4.66	13	PASS
				RB25#0	5.82	13	PASS
				RB25#13	5.67	13	PASS
				RB25#25	5.72	13	PASS
				RB50#0	6.49	13	PASS
		15	LCH	RB1#0	5.12	13	PASS
				RB1#38	4.97	13	PASS
				RB1#74	5.27	13	PASS
				RB38#0	6.06	13	PASS
				RB38#19	5.98	13	PASS
				RB38#39	6.1	13	PASS
				RB75#0	6.46	13	PASS
			MCH	RB1#0	5.32	13	PASS
				RB1#38	5.06	13	PASS
				RB1#74	5.53	13	PASS
				RB38#0	6.25	13	PASS
				RB38#19	6.08	13	PASS
				RB38#39	6.24	13	PASS
				RB75#0	6.69	13	PASS
			HCH	RB1#0	5.01	13	PASS
				RB1#38	4.48	13	PASS
				RB1#74	4.37	13	PASS
				RB38#0	6.12	13	PASS
				RB38#19	5.88	13	PASS
				RB38#39	5.87	13	PASS
				RB75#0	6.36	13	PASS
		20	LCH	RB1#0	4.76	13	PASS
				RB1#50	4.94	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	5.09	13	PASS
				RB50#0	6.02	13	PASS
				RB50#25	5.97	13	PASS
				RB50#50	6.13	13	PASS
				RB100#0	6.58	13	PASS
			MCH	RB1#0	5.12	13	PASS
				RB1#50	4.96	13	PASS
				RB1#99	5.19	13	PASS
				RB50#0	6.18	13	PASS
				RB50#25	6.1	13	PASS
				RB50#50	6.21	13	PASS
				RB100#0	6.83	13	PASS
			HCH	RB1#0	5.04	13	PASS
				RB1#50	4.86	13	PASS
				RB1#99	4.73	13	PASS
				RB50#0	6.11	13	PASS
				RB50#25	5.89	13	PASS
				RB50#50	5.93	13	PASS
				RB100#0	6.31	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

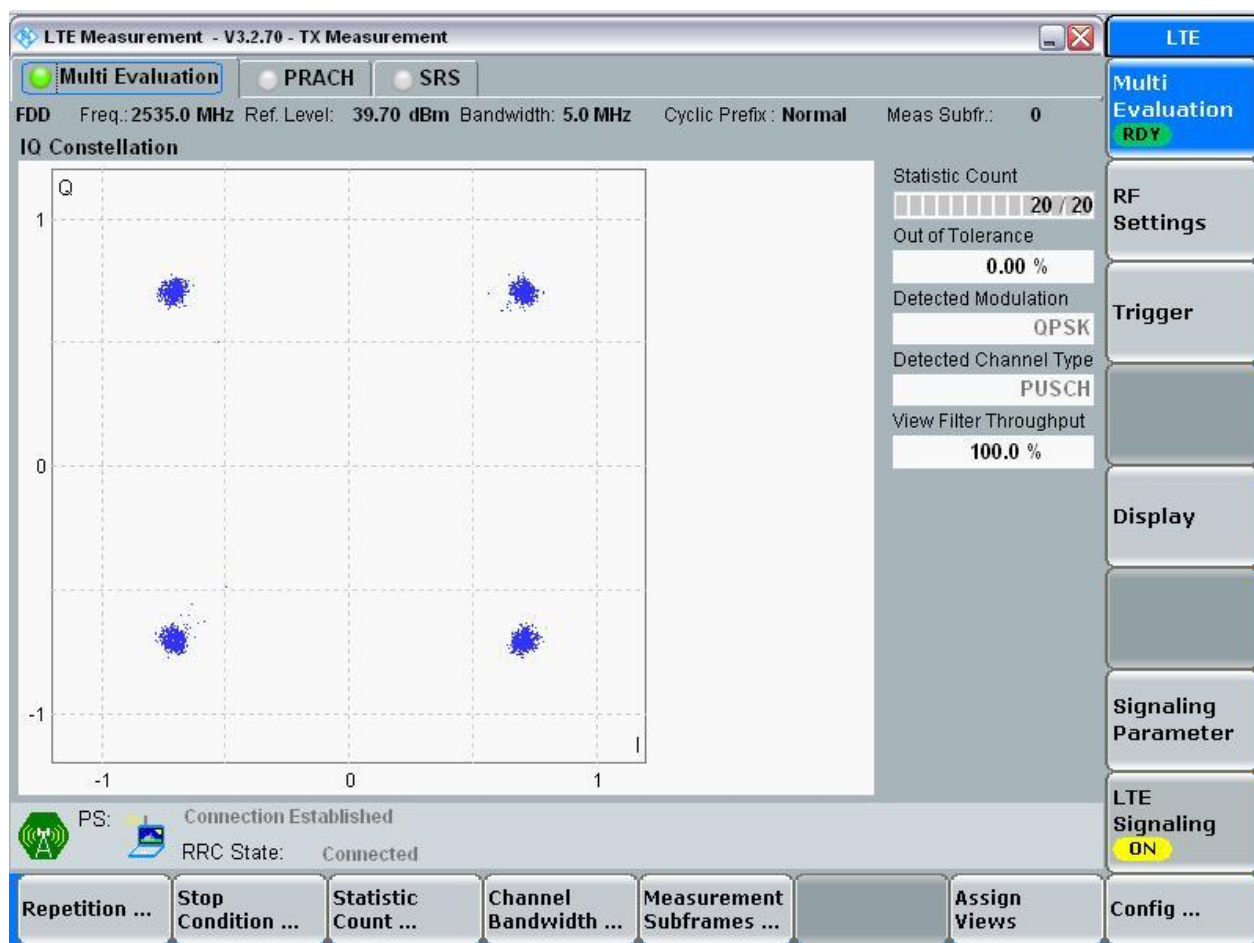
3.1.1 Test Band = BAND7

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

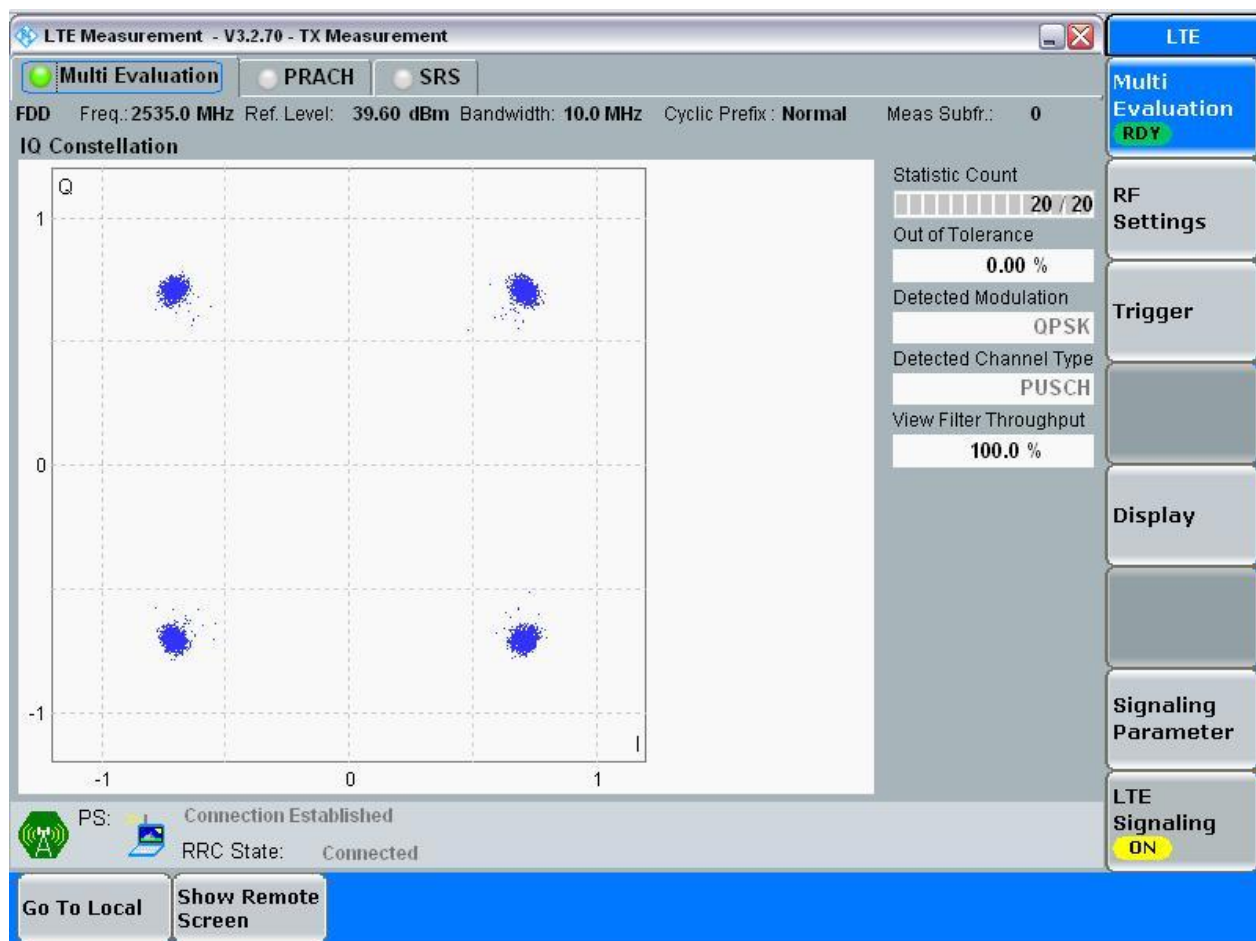
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

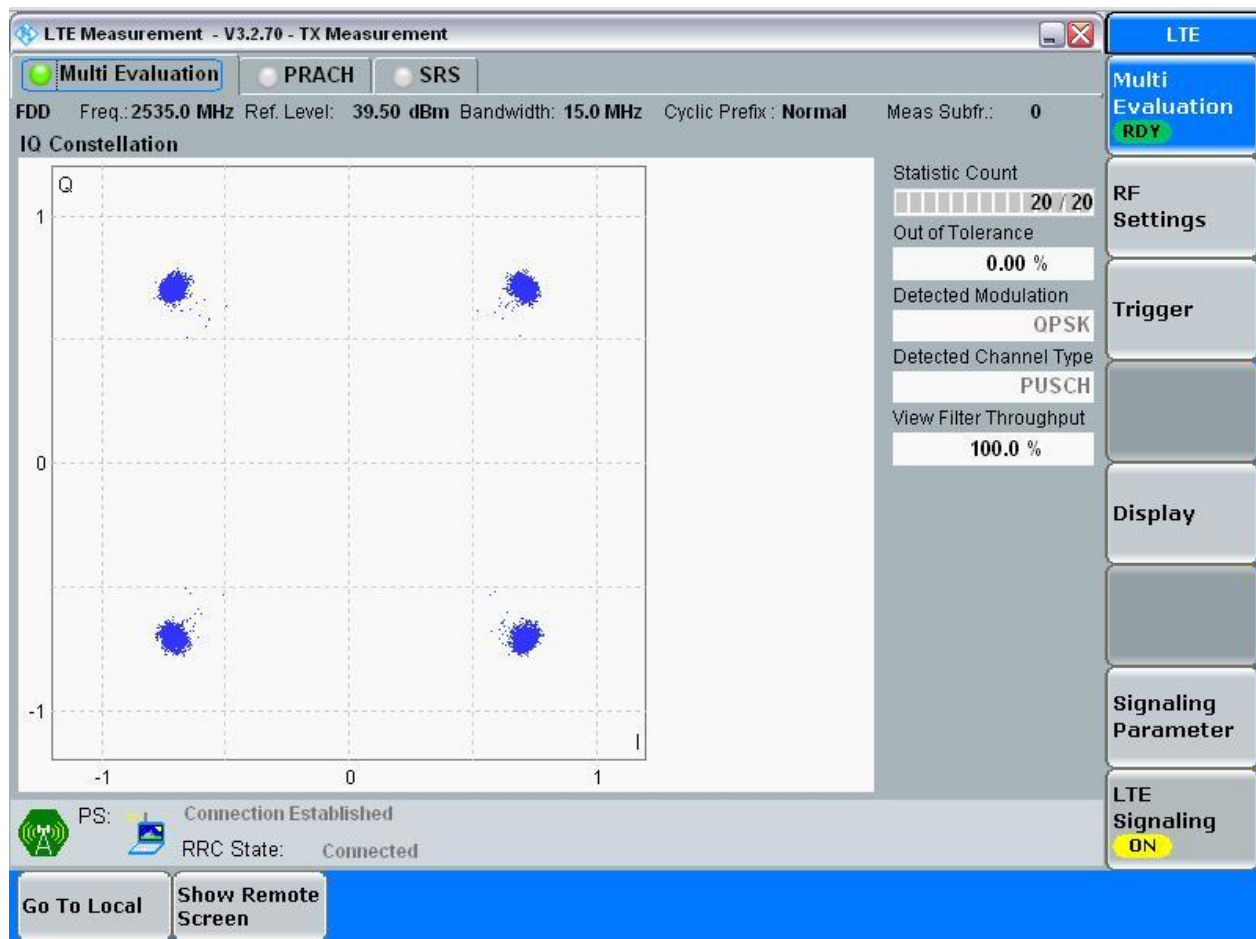
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

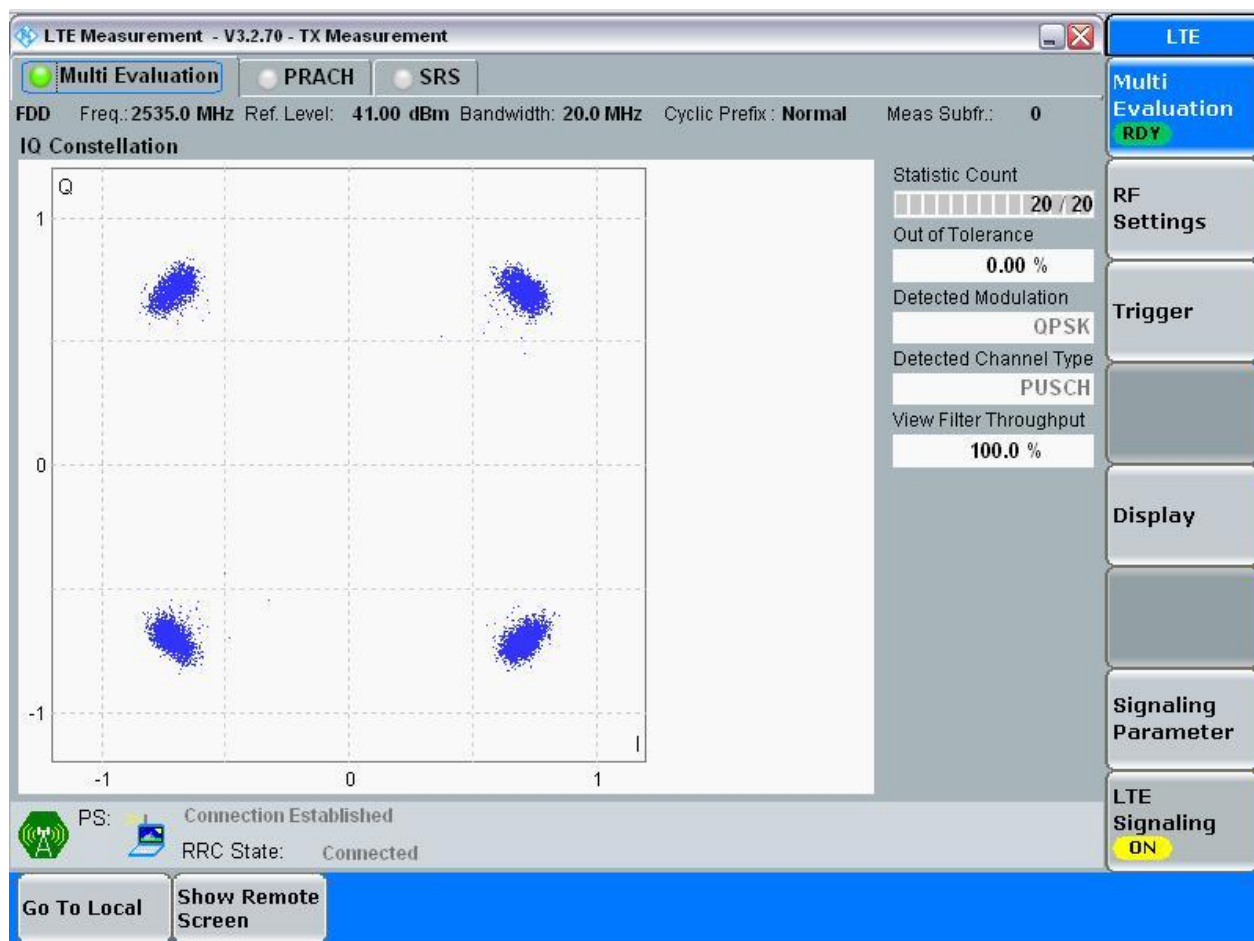
3.1.1.1.3.1.1 Test RB = RB75#0



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

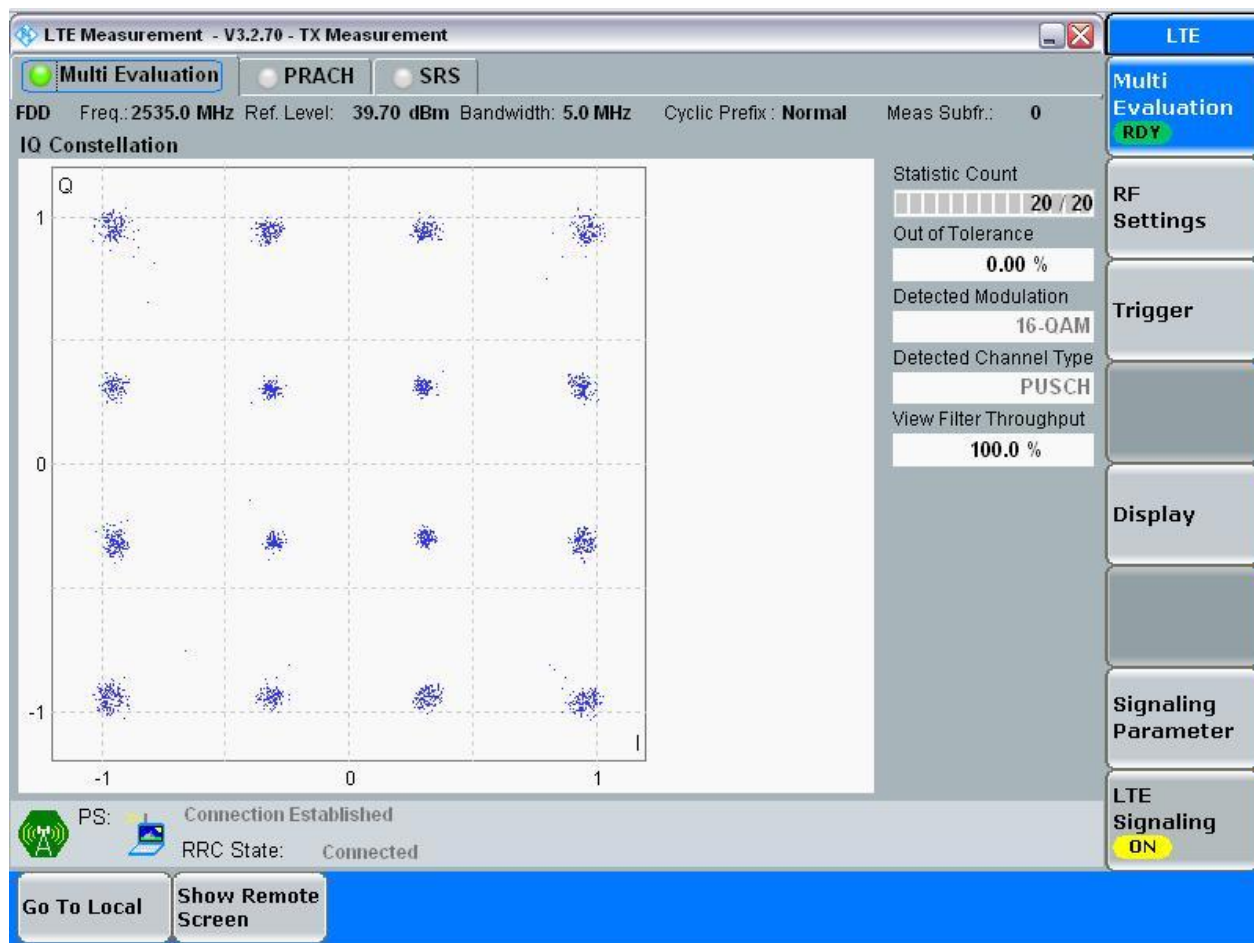


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

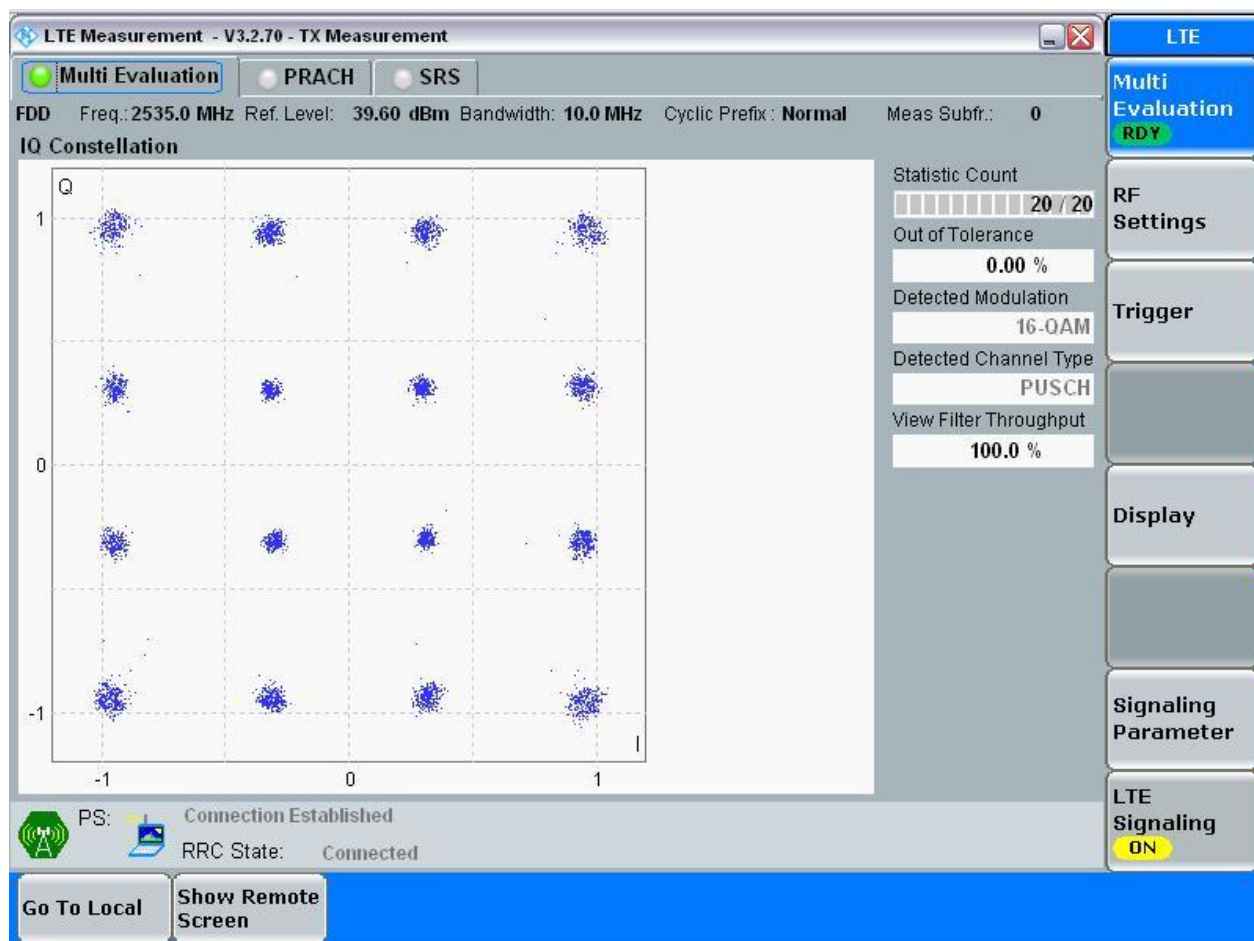
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

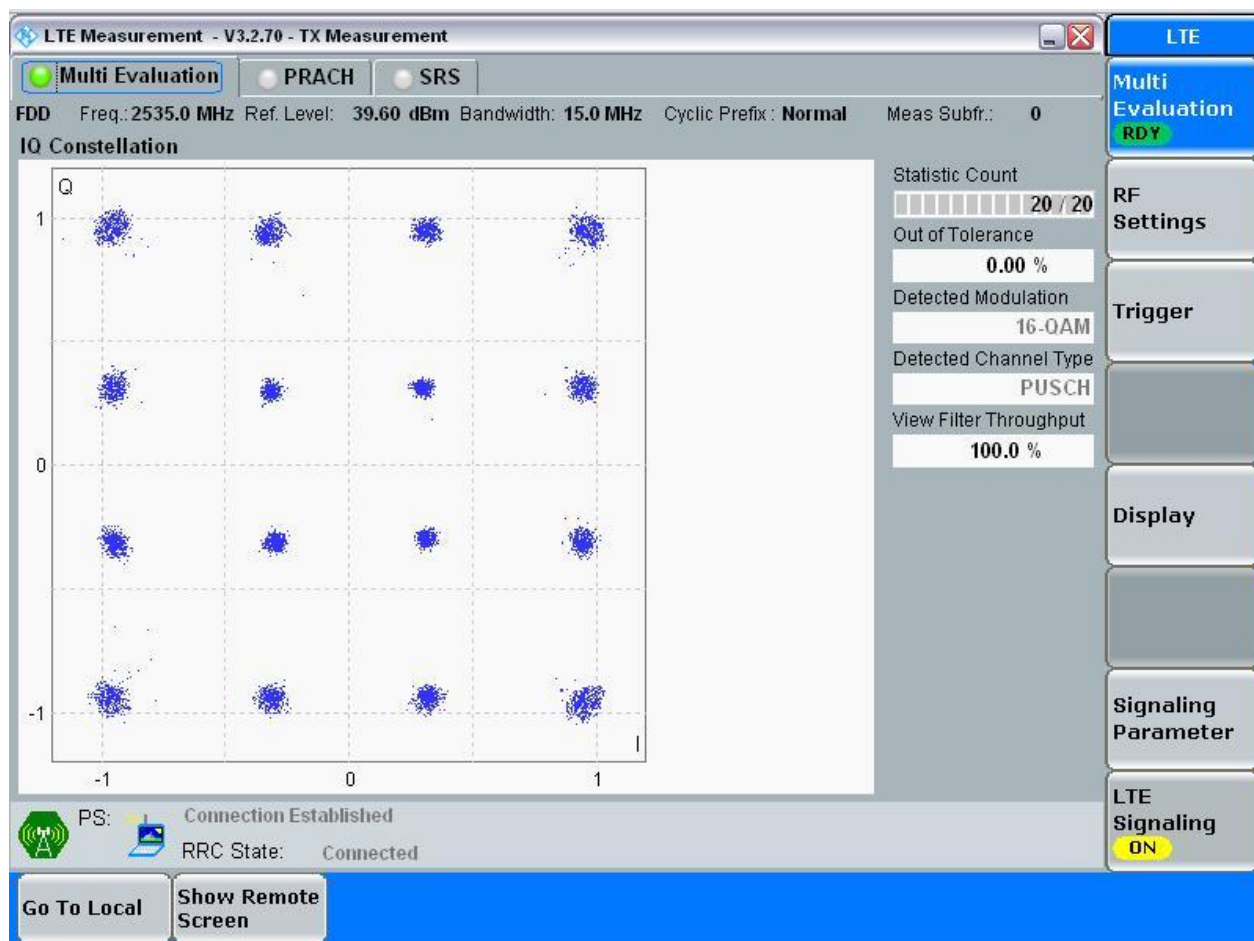
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

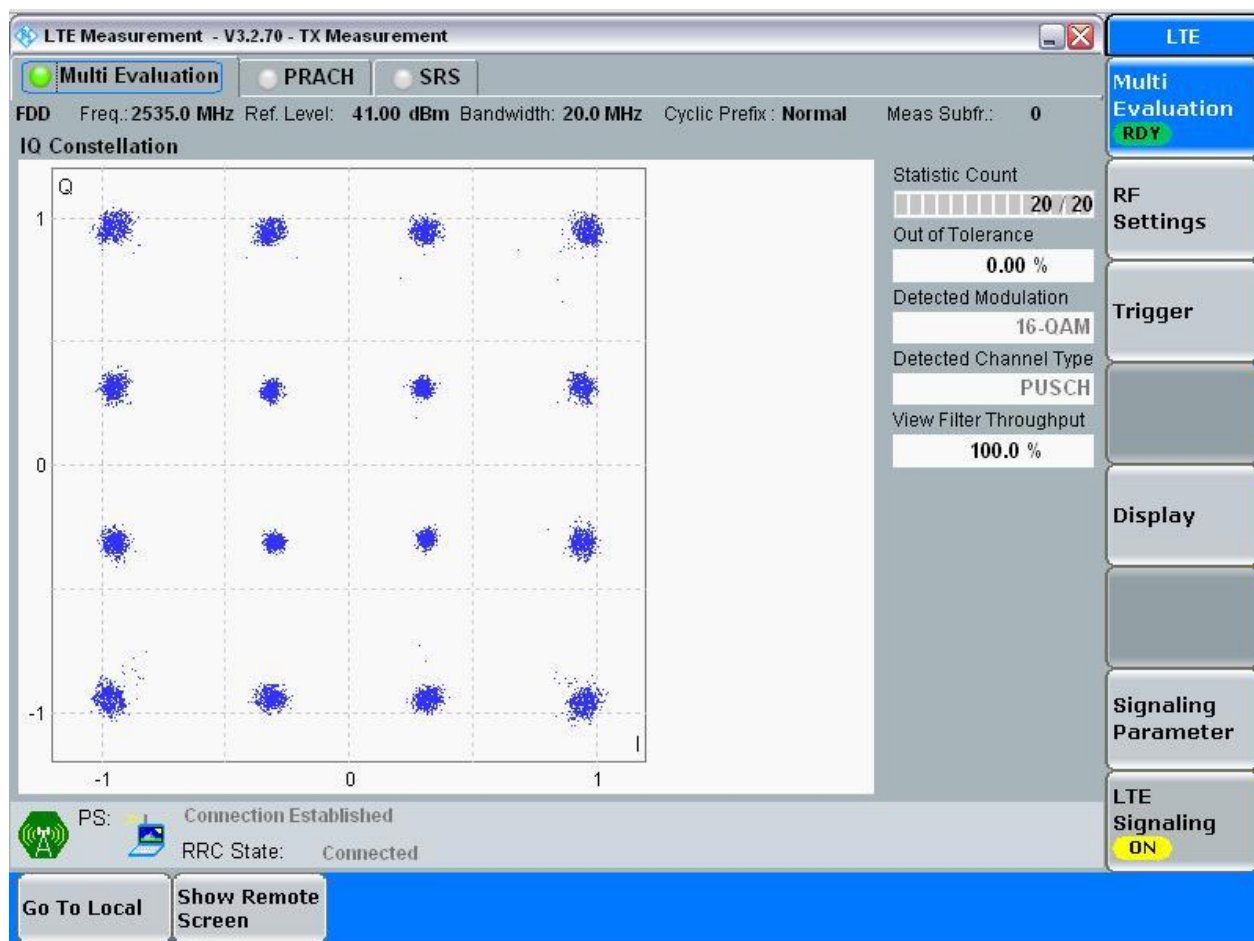
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.99	Pass
			MCH	RB25#0	4.51	5.00	Pass
			HCH	RB25#0	4.50	4.99	Pass
		10	LCH	RB50#0	8.98	9.86	Pass
			MCH	RB50#0	8.97	9.86	Pass
			HCH	RB50#0	8.96	9.88	Pass
		15	LCH	RB75#0	13.46	14.82	Pass
			MCH	RB75#0	13.46	14.82	Pass
			HCH	RB75#0	13.46	14.74	Pass
		20	LCH	RB100#0	17.90	19.39	Pass
			MCH	RB100#0	17.93	19.41	Pass
			HCH	RB100#0	17.91	19.47	Pass
	LTE/TM2	5	LCH	RB25#0	4.51	5.04	Pass
			MCH	RB25#0	4.52	5.00	Pass
			HCH	RB25#0	4.52	5.03	Pass
		10	LCH	RB50#0	8.98	9.91	Pass
			MCH	RB50#0	8.99	9.95	Pass
			HCH	RB50#0	9.00	9.87	Pass
		15	LCH	RB75#0	13.45	14.69	Pass
			MCH	RB75#0	13.46	14.72	Pass
			HCH	RB75#0	13.43	14.74	Pass
		20	LCH	RB100#0	17.92	19.47	Pass
			MCH	RB100#0	17.93	19.47	Pass
			HCH	RB100#0	17.87	19.44	Pass



Part II - Test Plots

4.1 For LTE

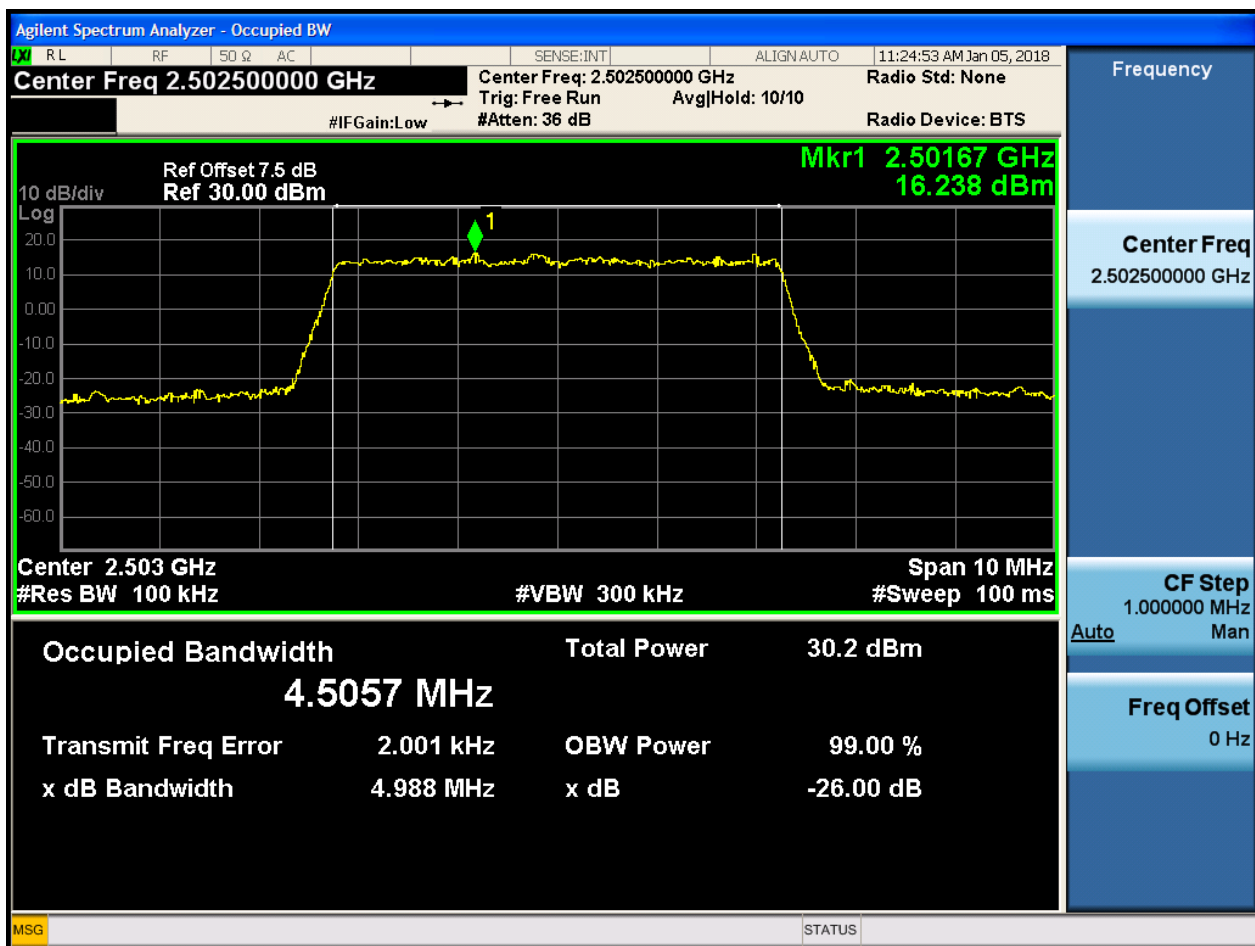
4.1.1 Test Band = BAND7

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

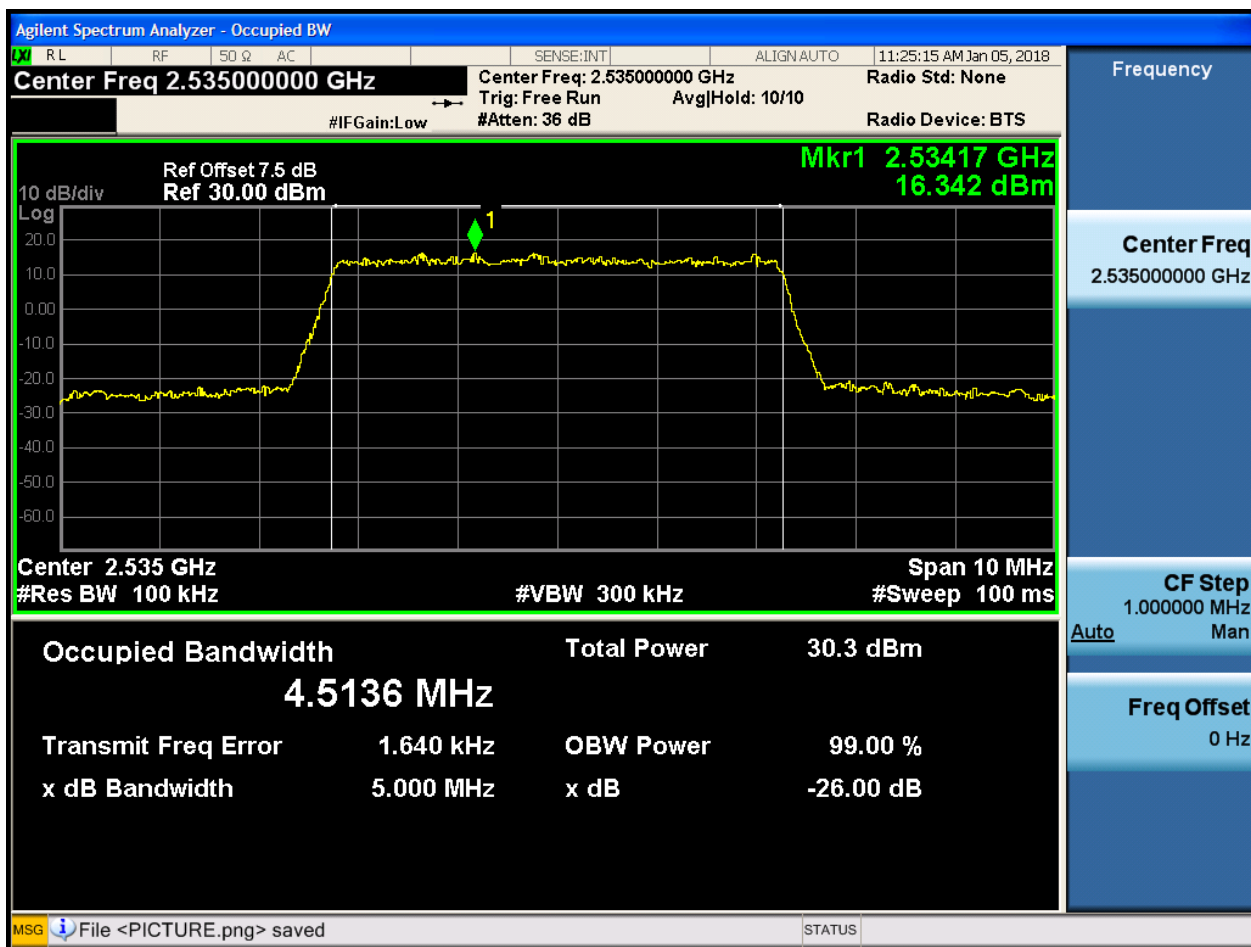
4.1.1.1.1.1.1 Test RB = RB25#0





4.1.1.1.1.2 Test Channel = MCH

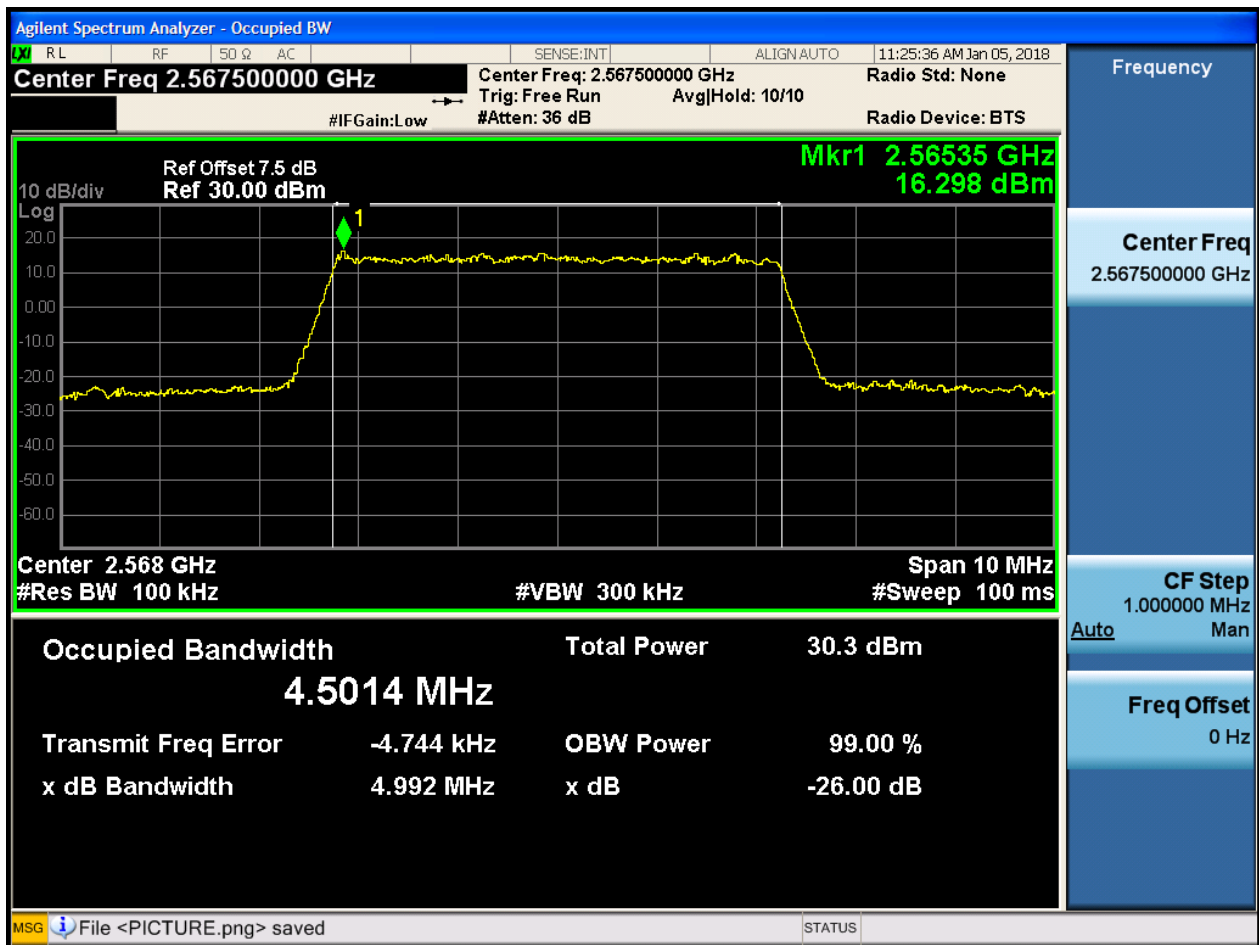
4.1.1.1.1.2.1 Test RB = RB25#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0

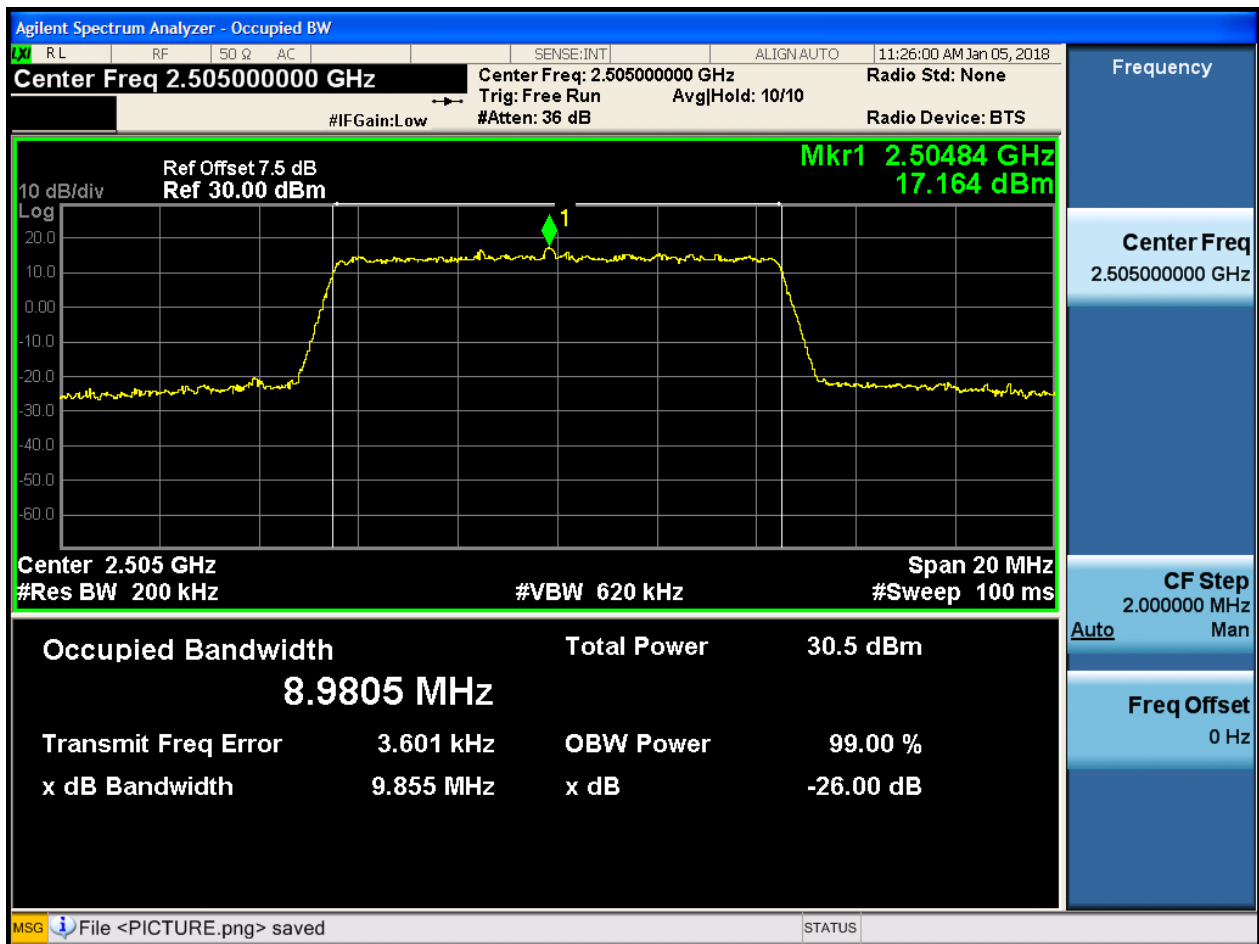




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

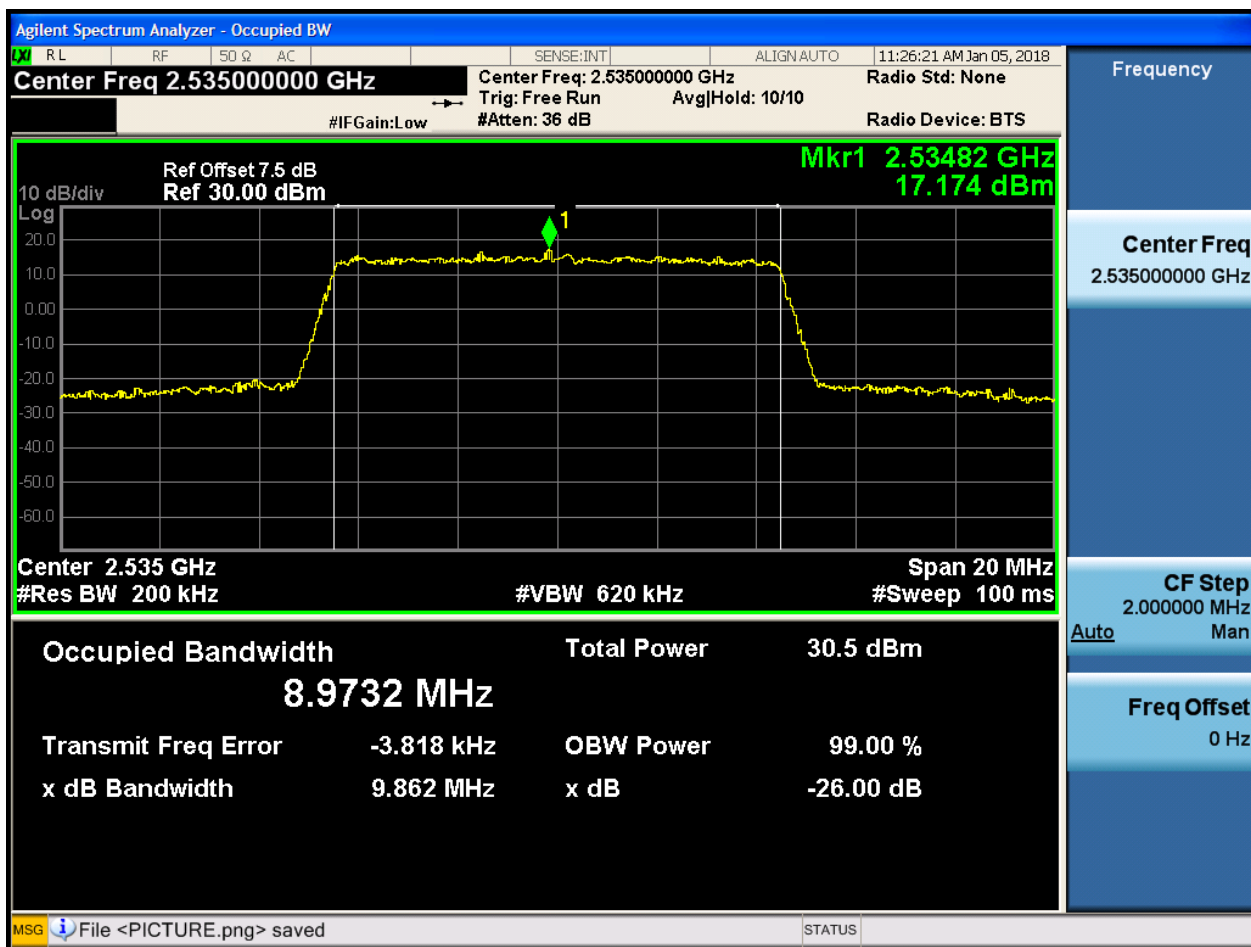
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

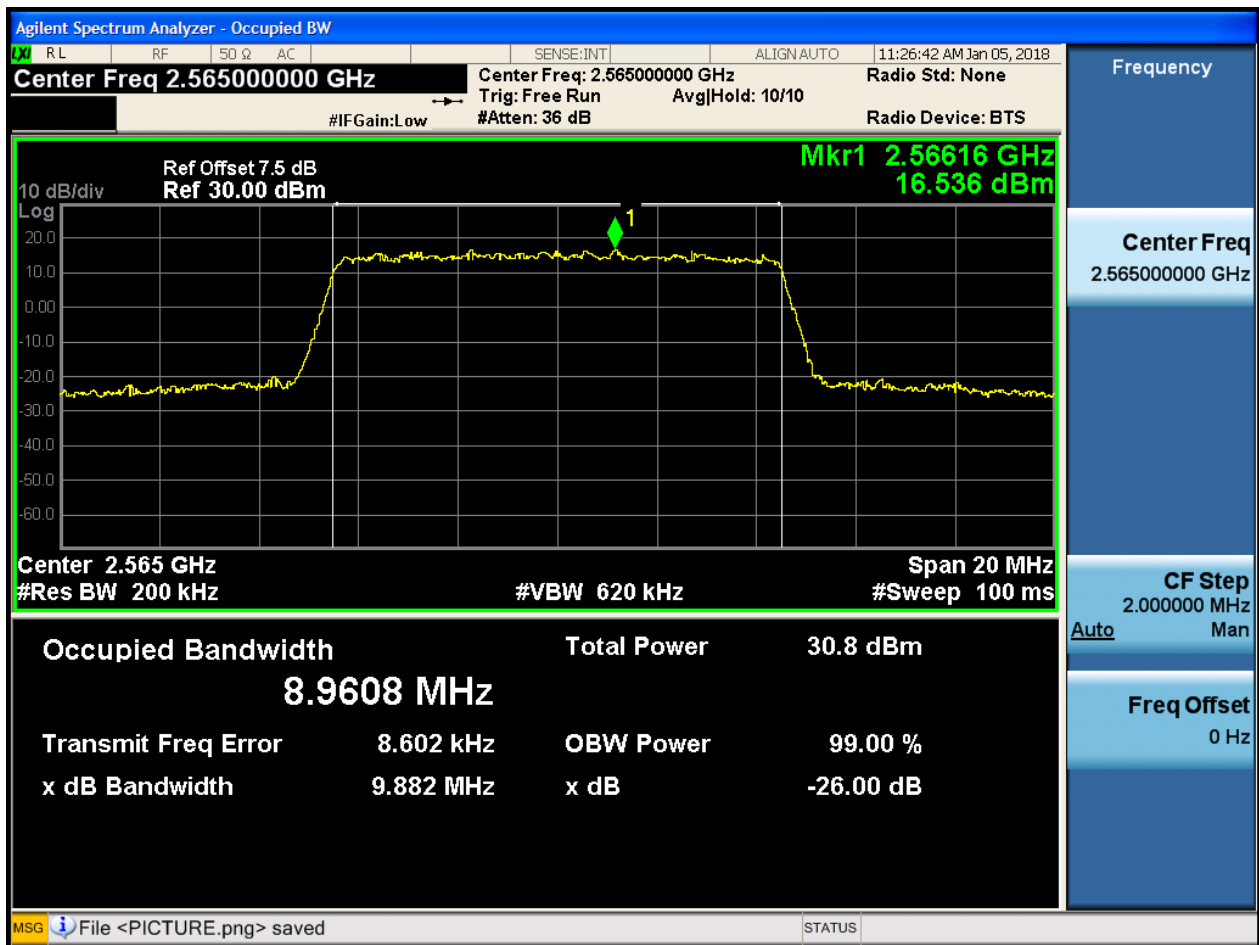
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

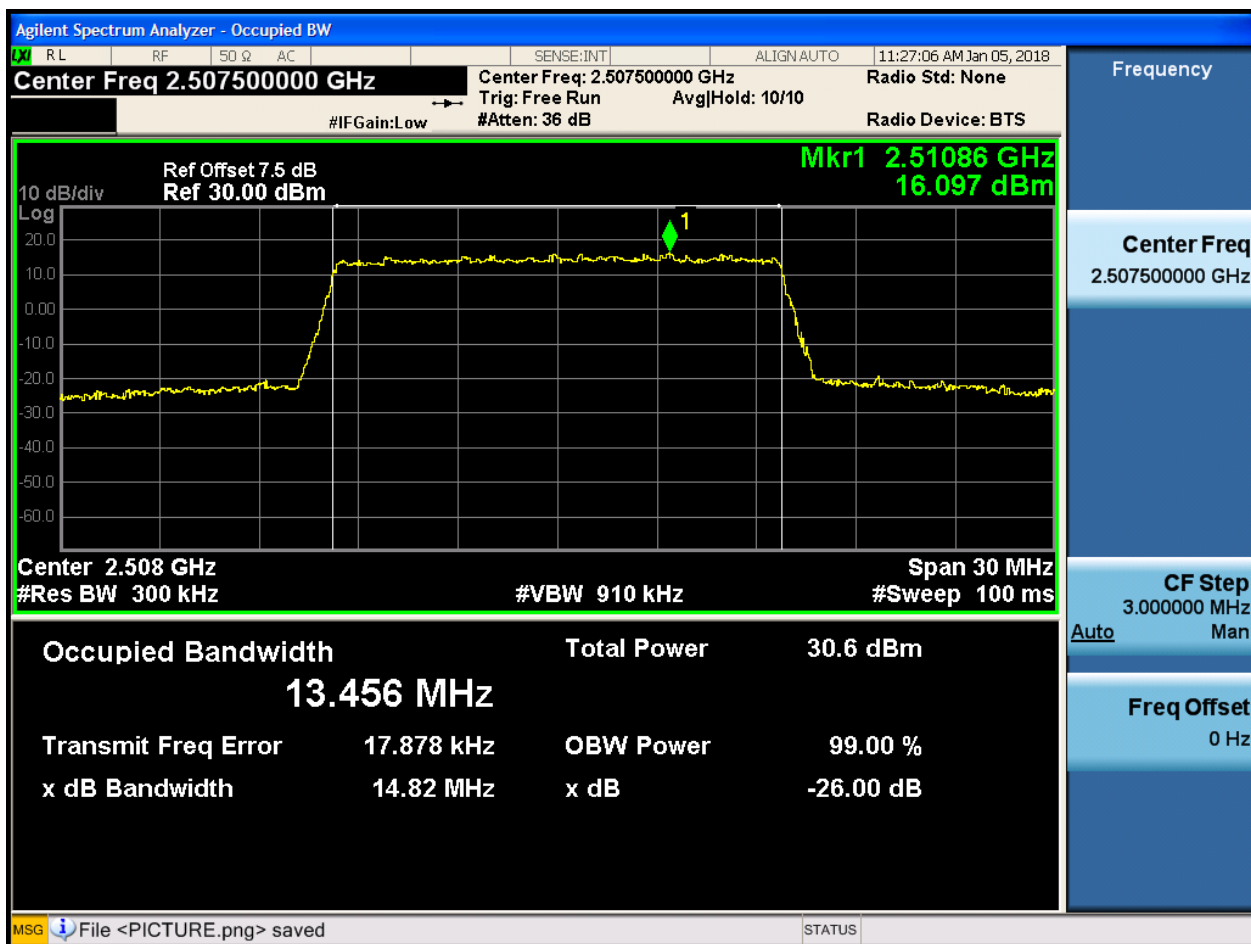




4.1.1.1.3 Test Bandwidth = 15

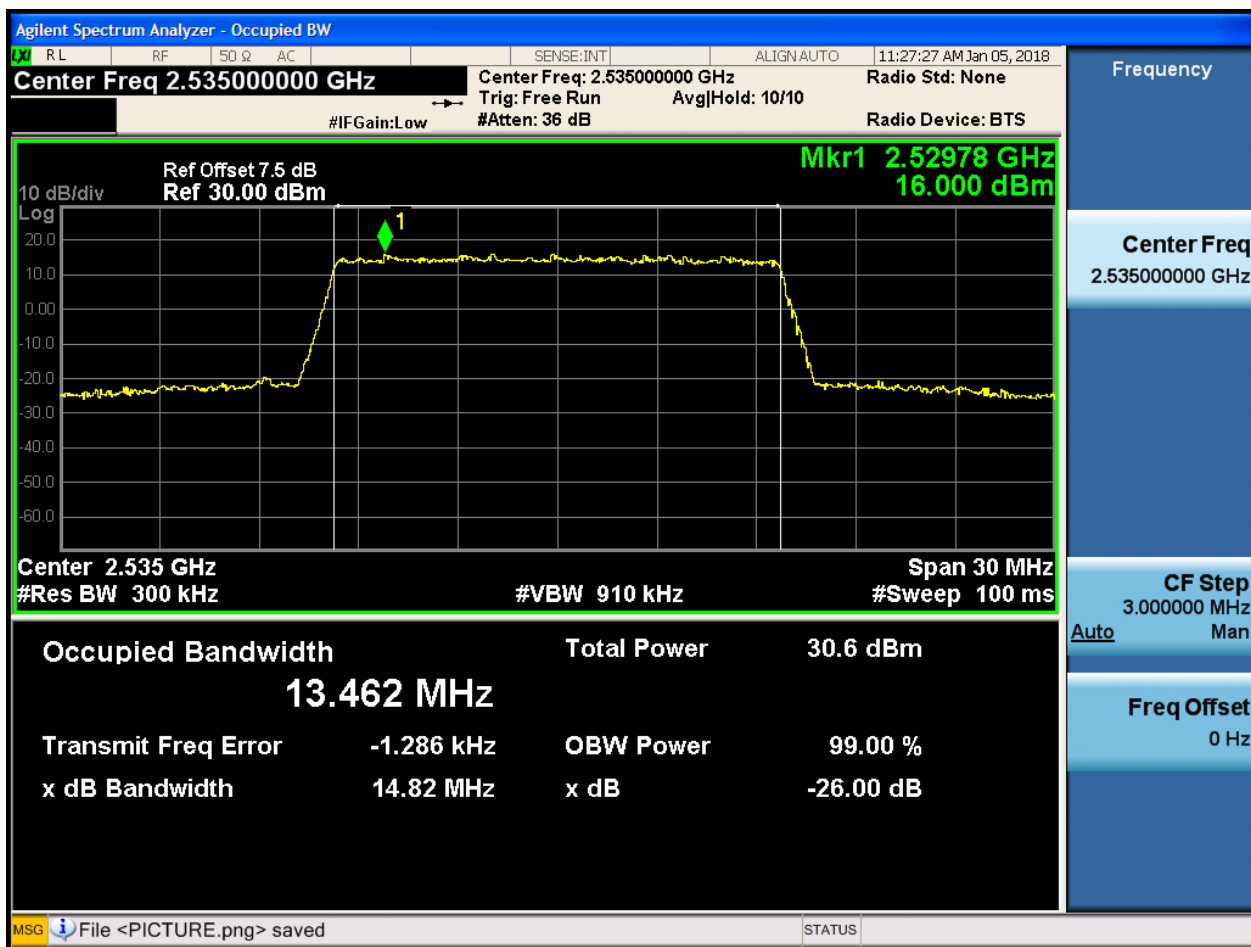
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0



4.1.1.1.3.2 Test Channel = MCH

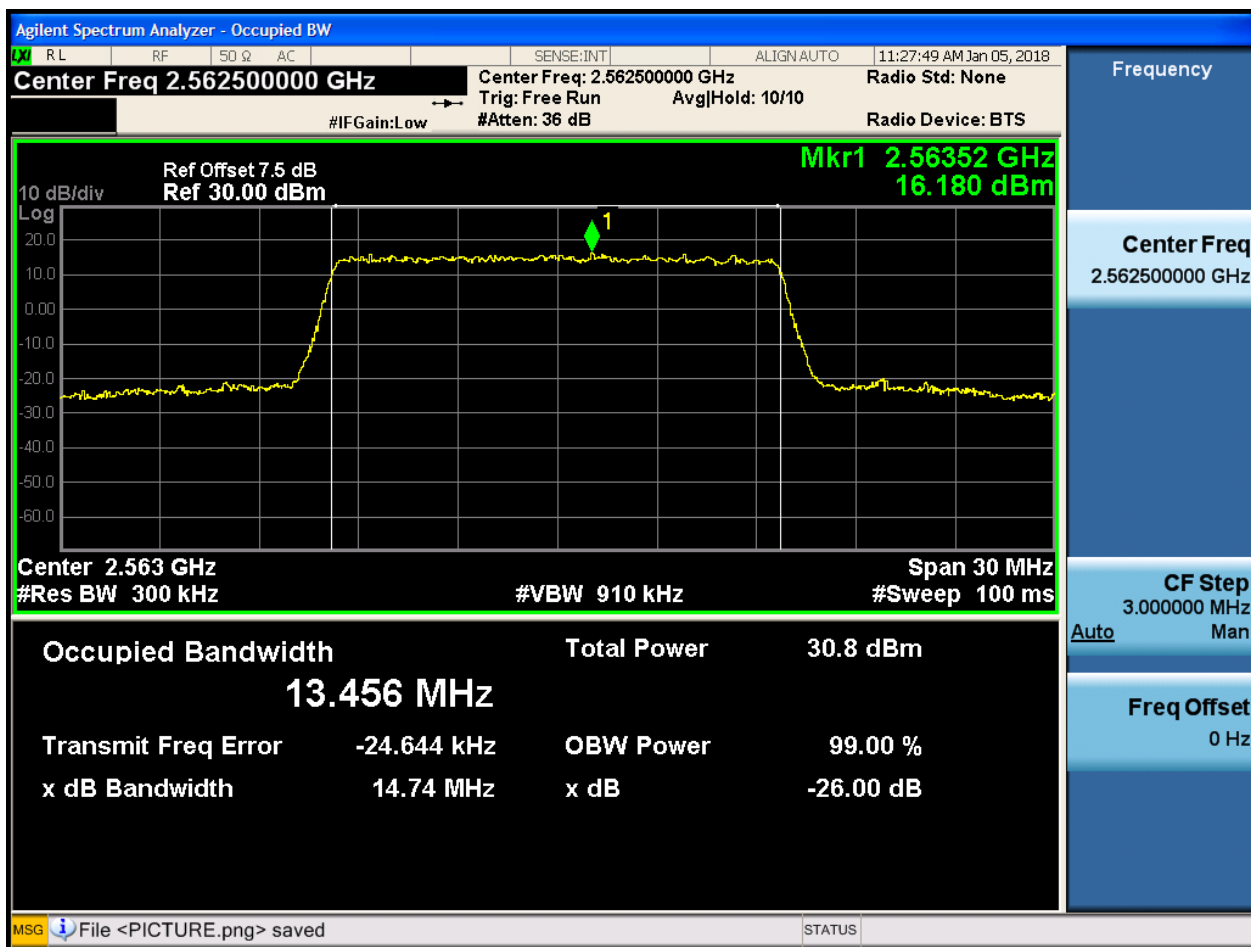
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

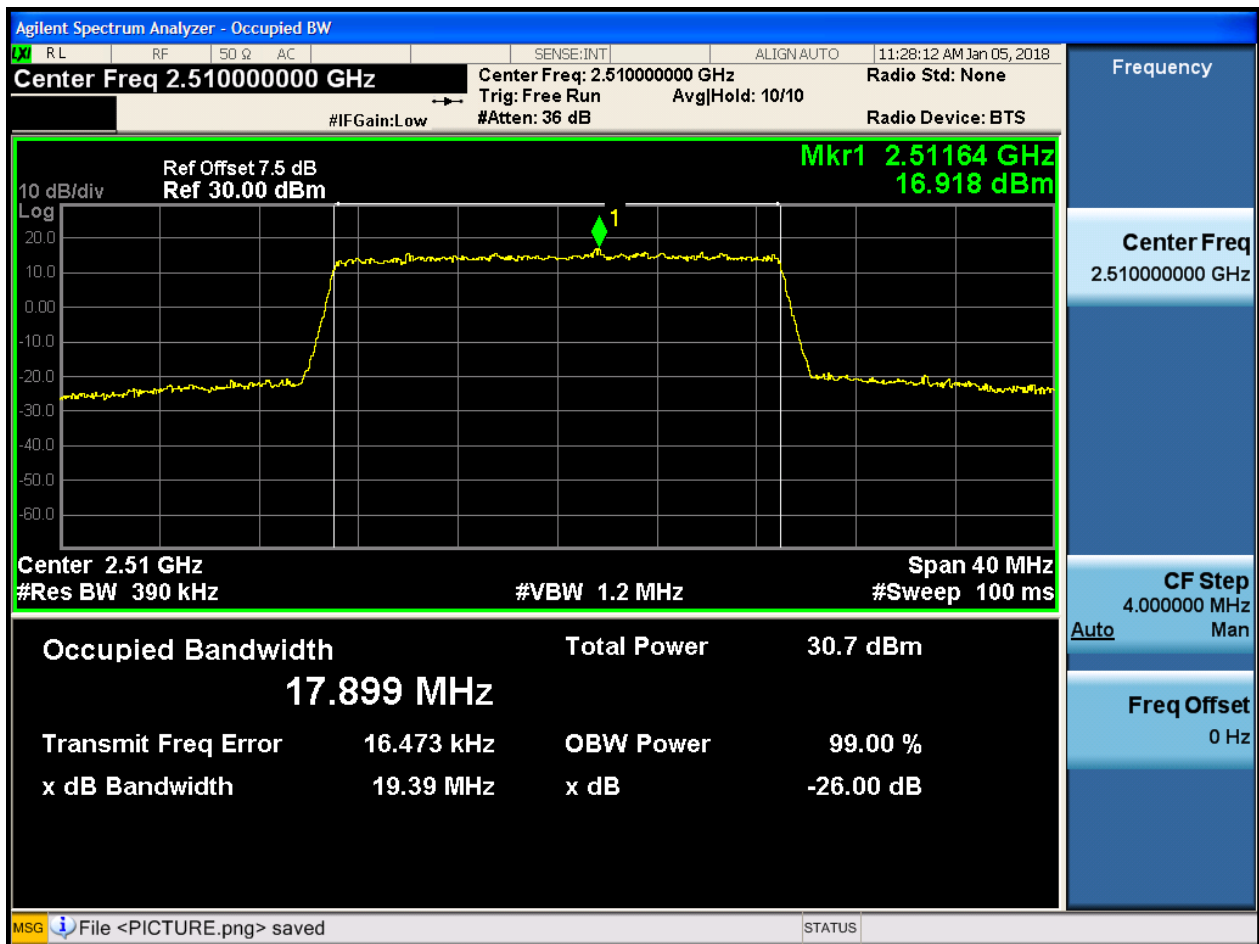




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

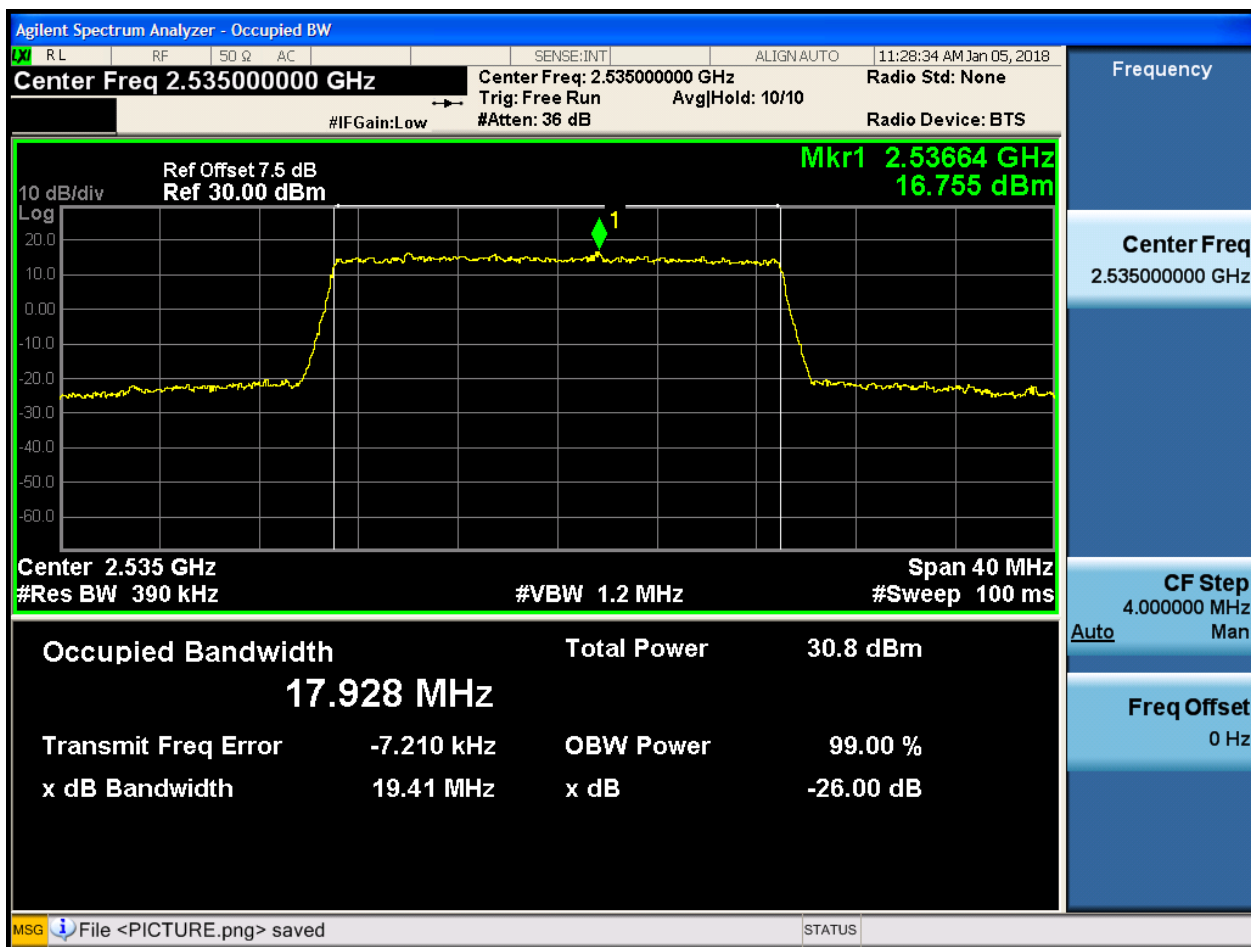
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

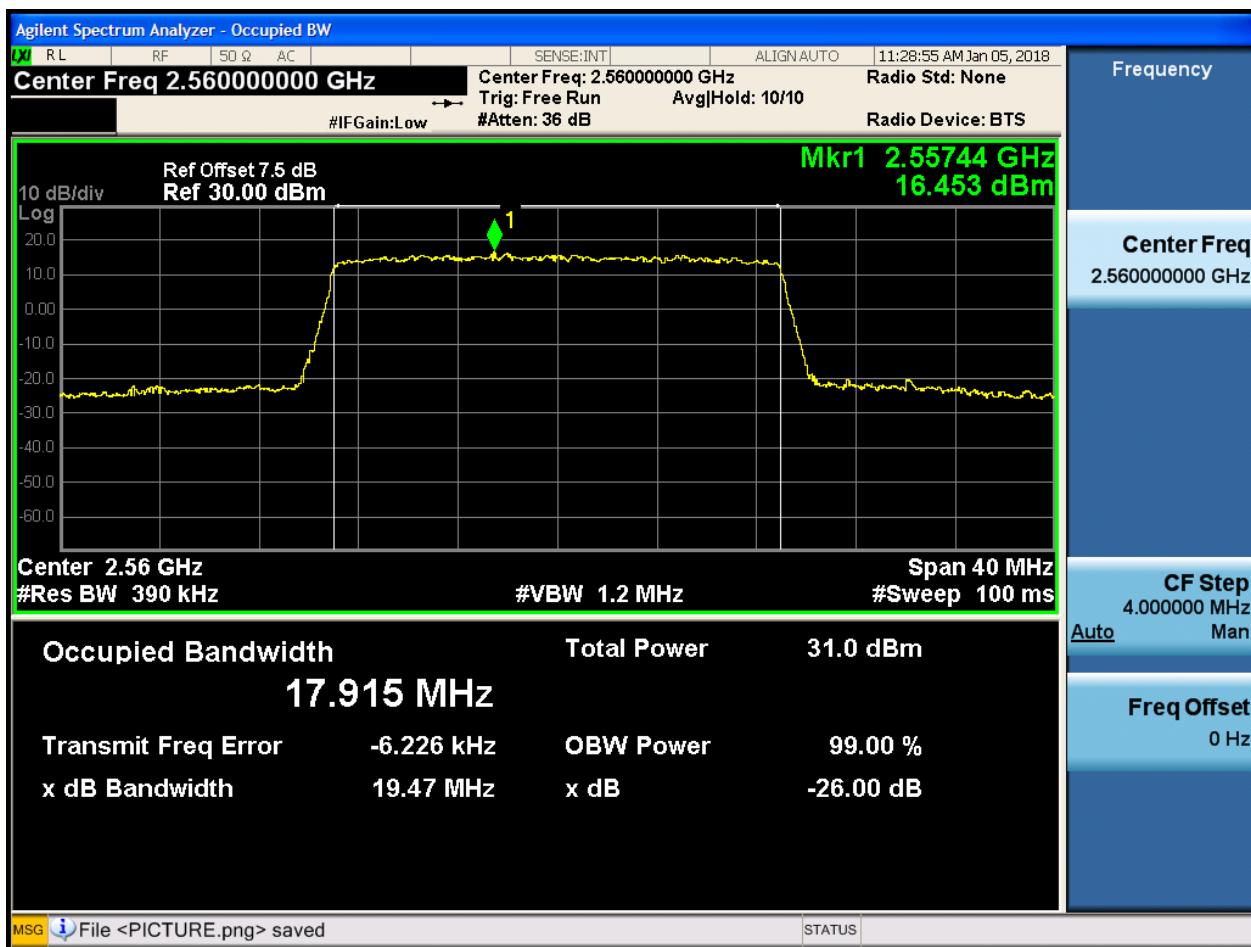
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



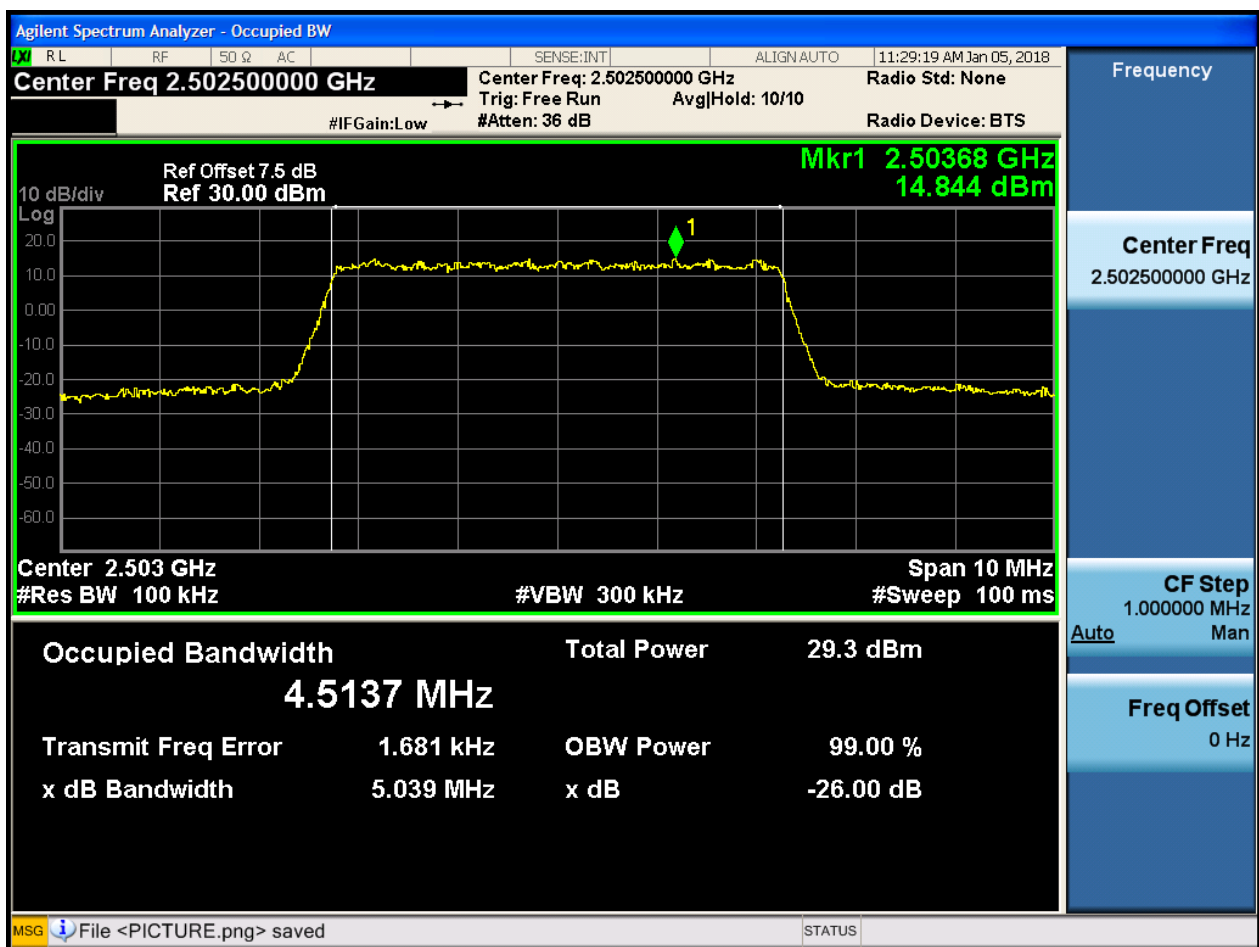


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

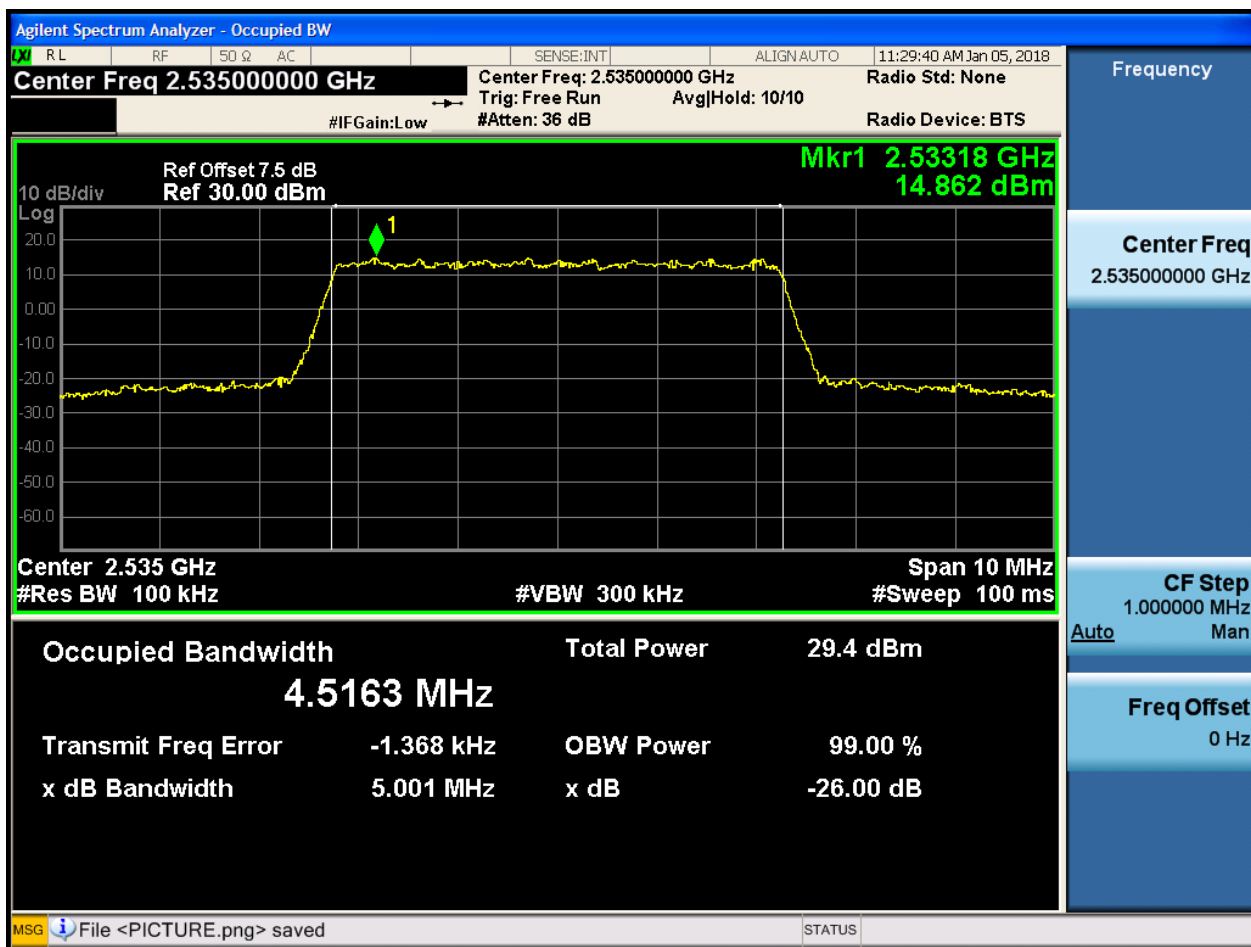
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

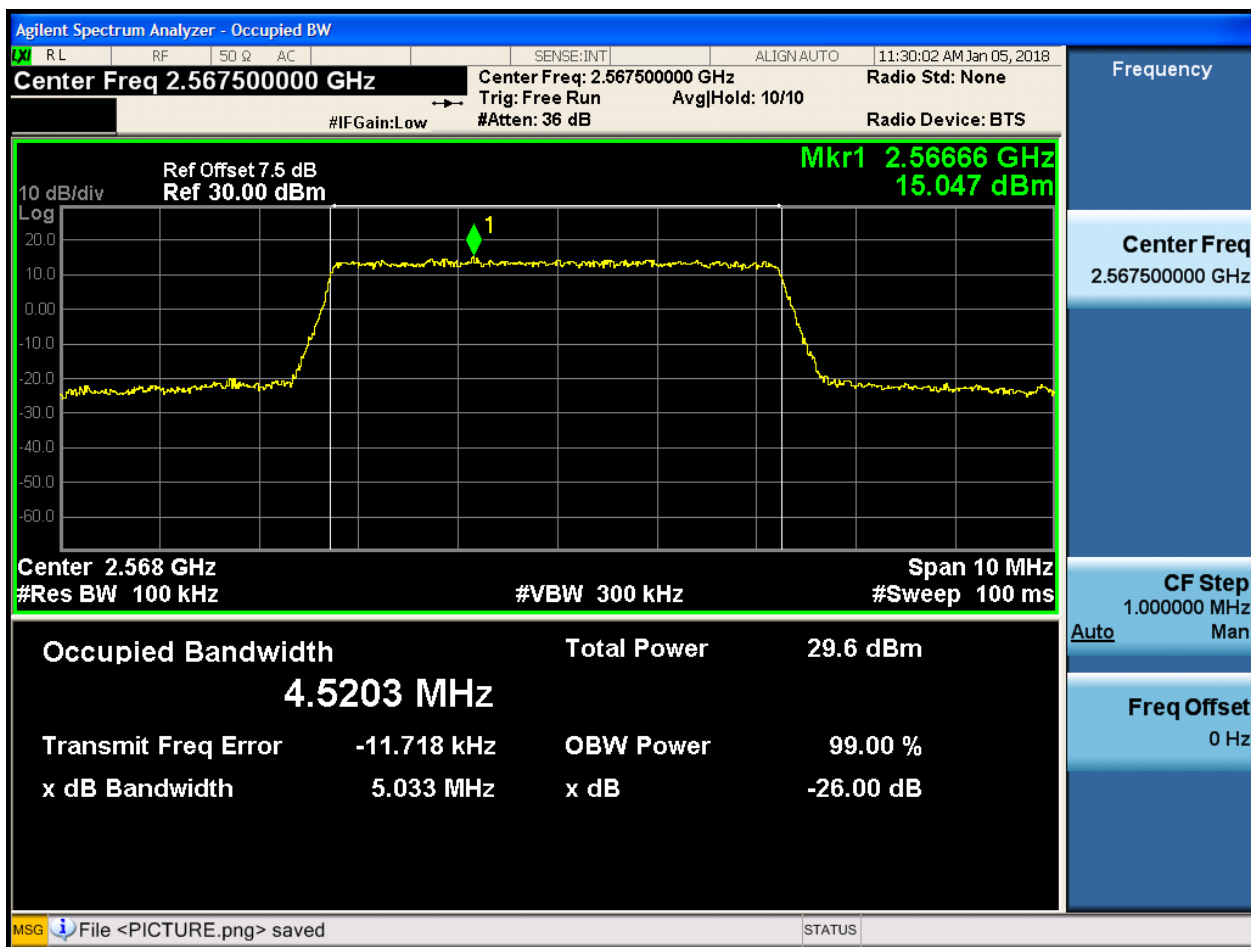
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

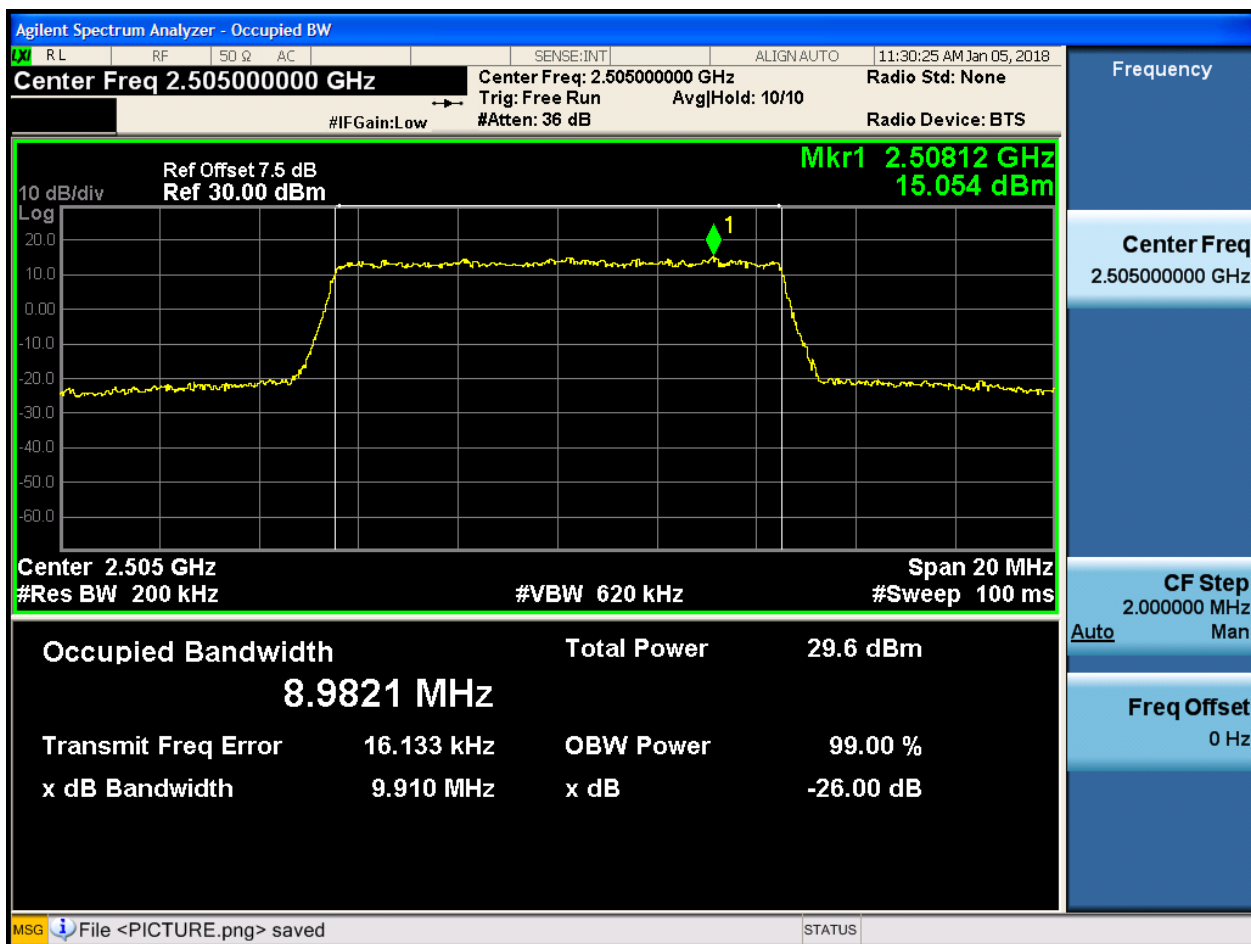




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

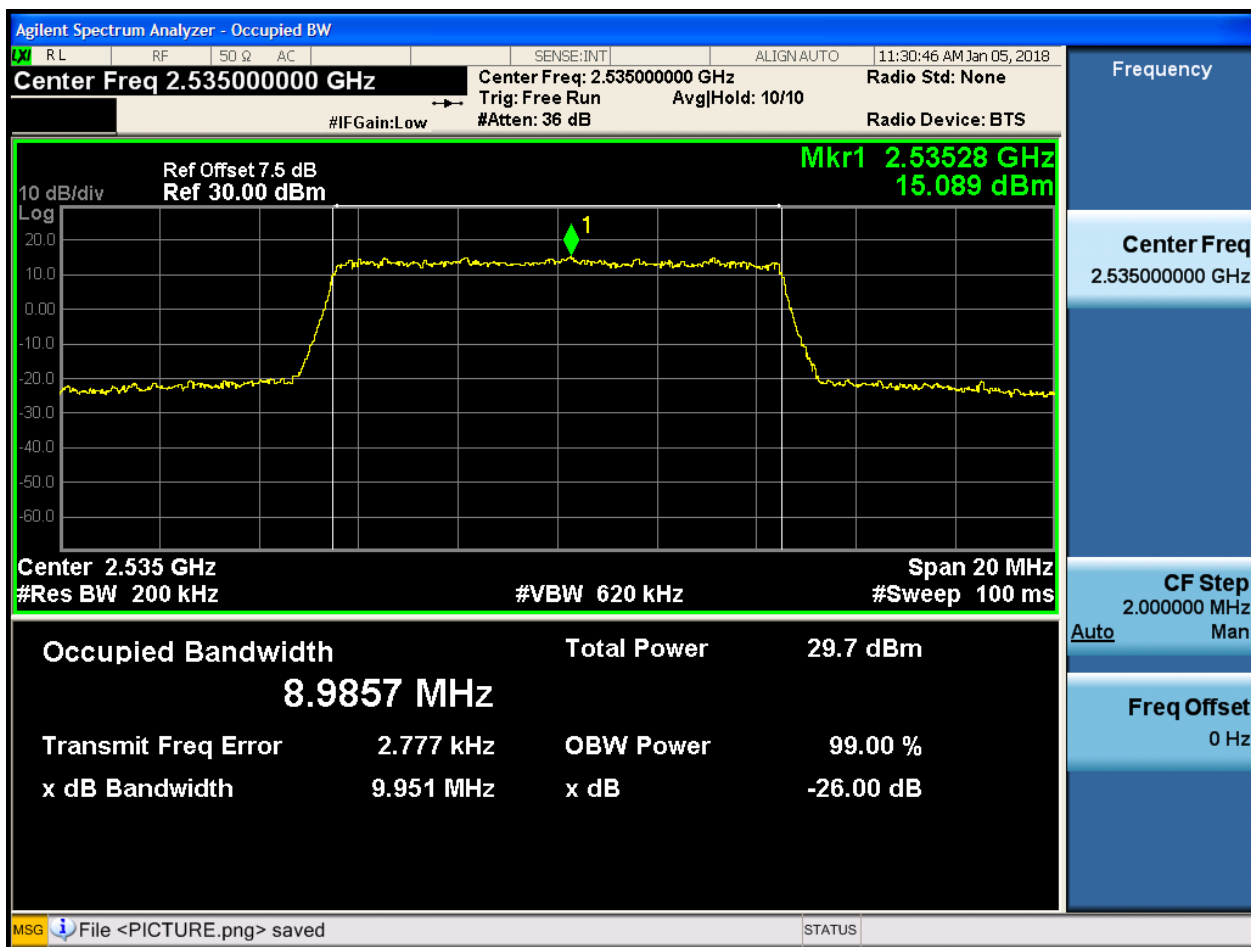
4.1.1.2.2.1.1 Test RB = RB50#0





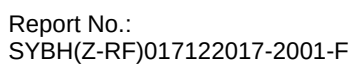
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.1 Test RB = RB50#0





4.1.1.2.2.3.1 Test RB = RB50#0

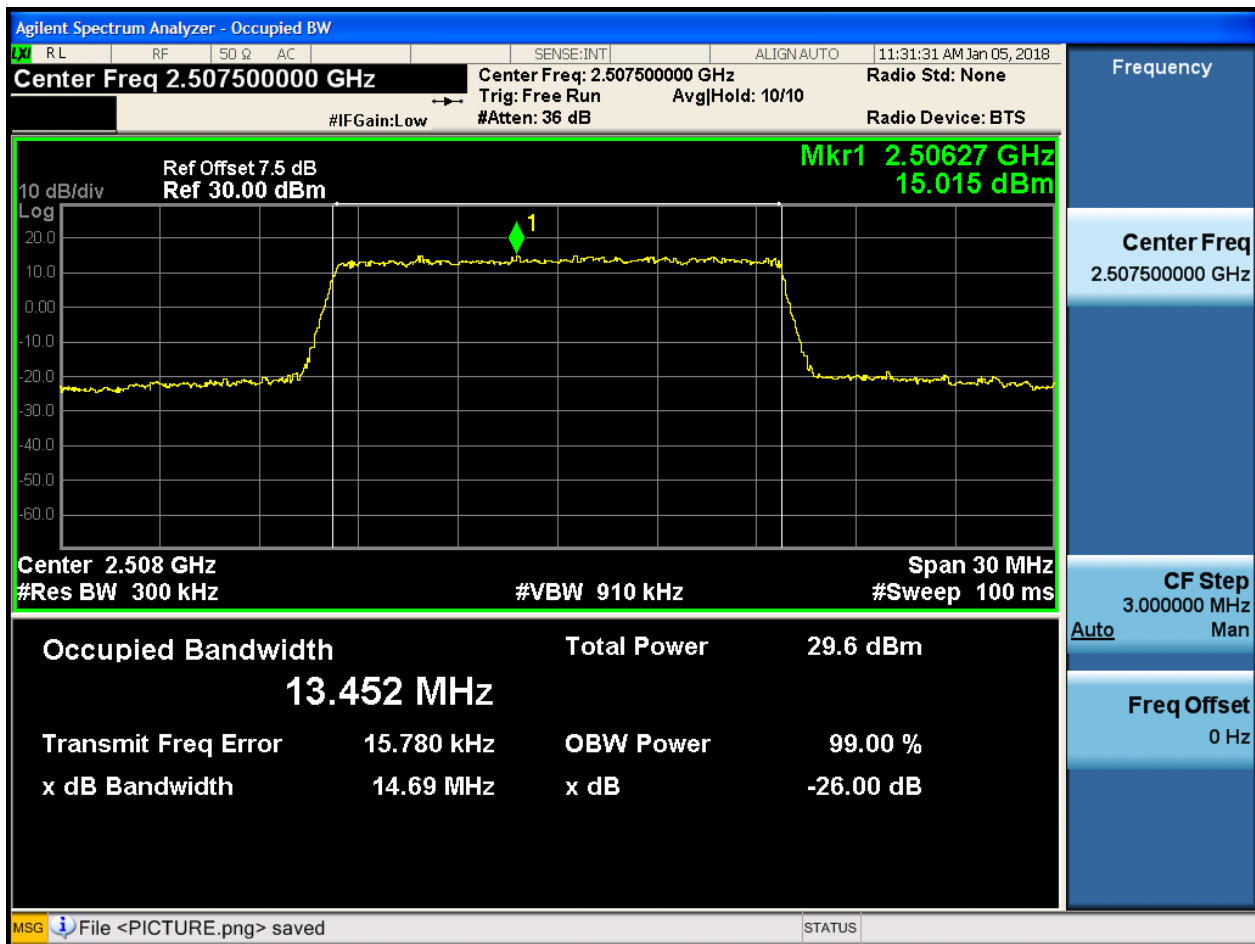




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

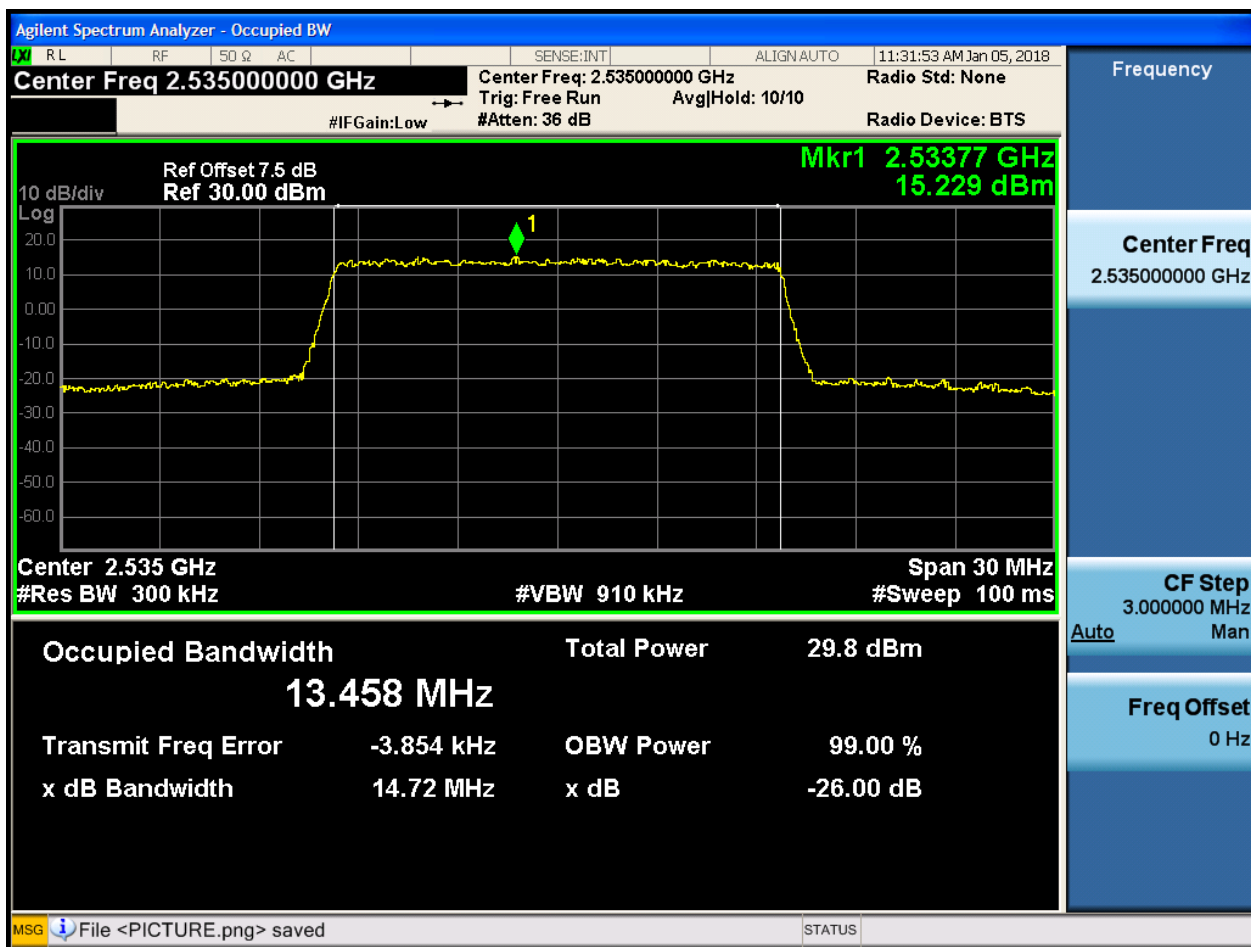
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

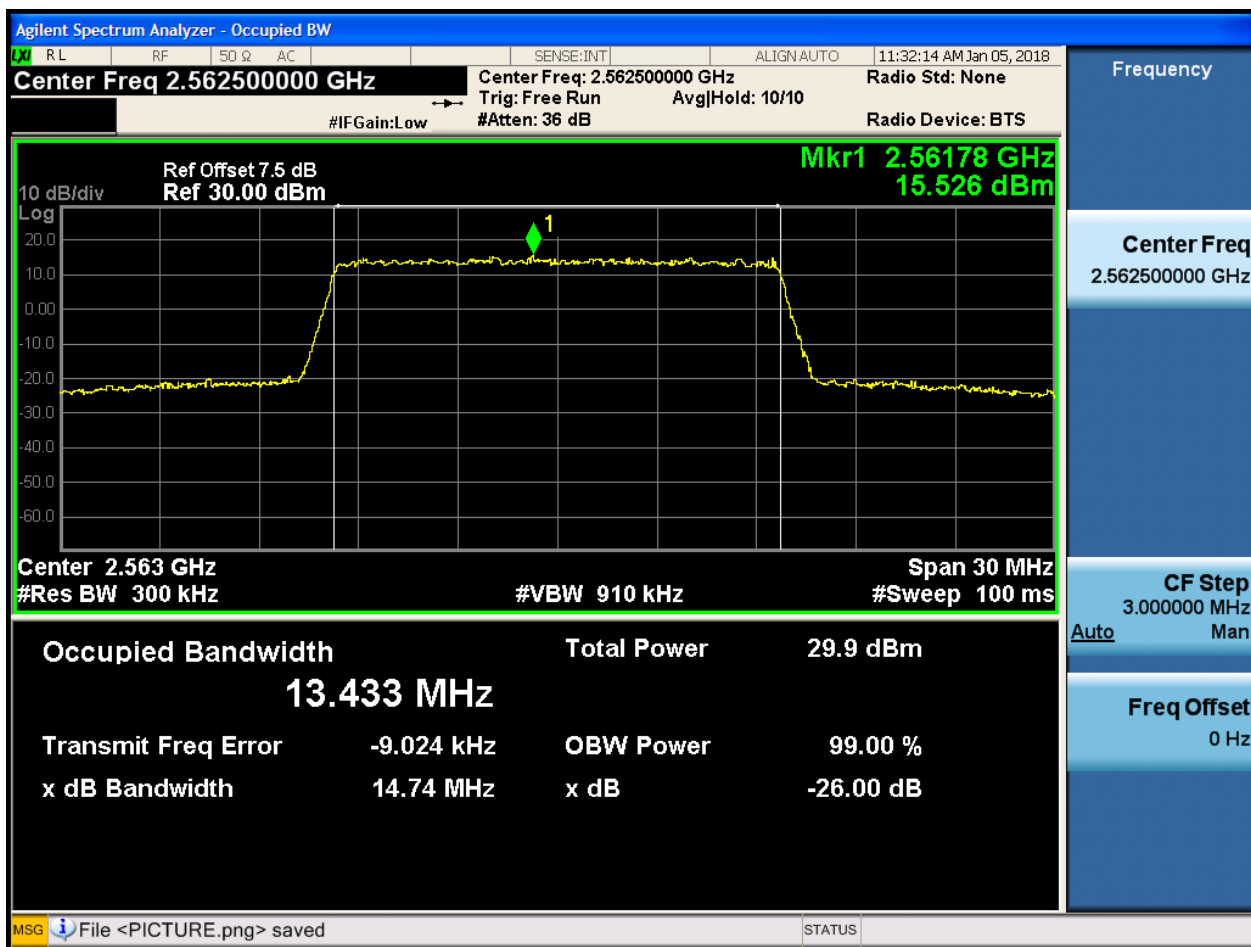
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

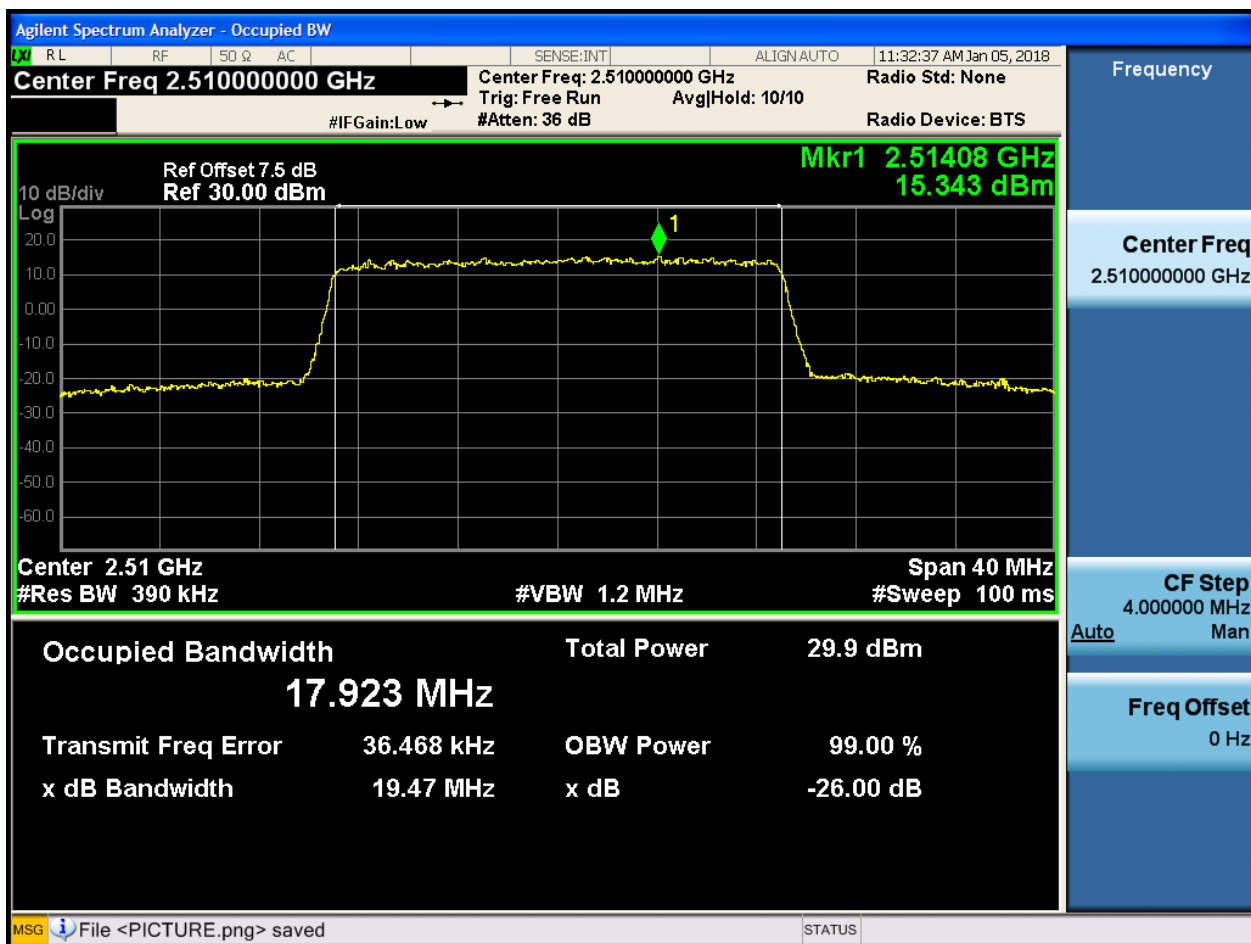




4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

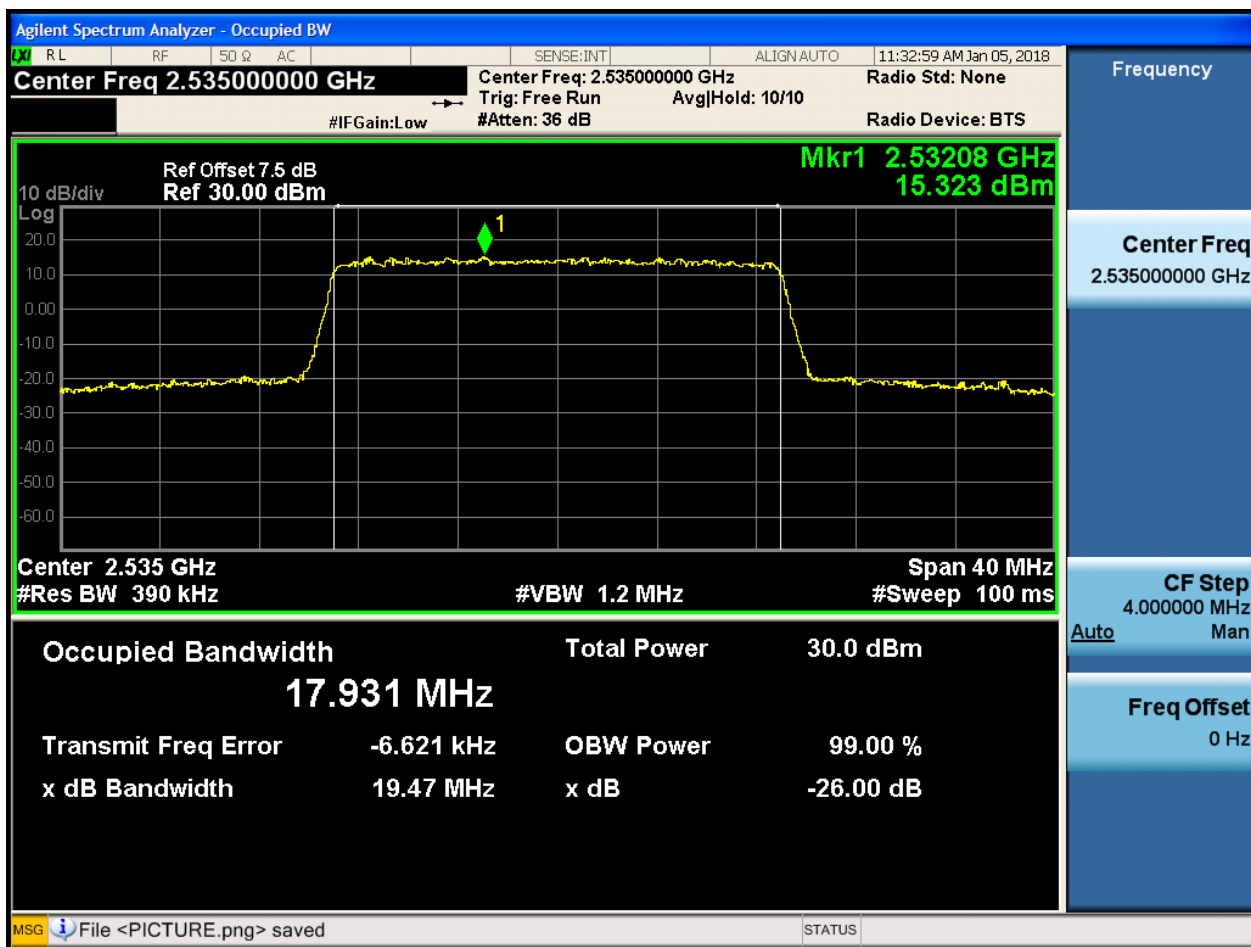
4.1.1.2.4.1.1 Test RB = RB100#0





4.1.1.2.4.2 Test Channel = MCH

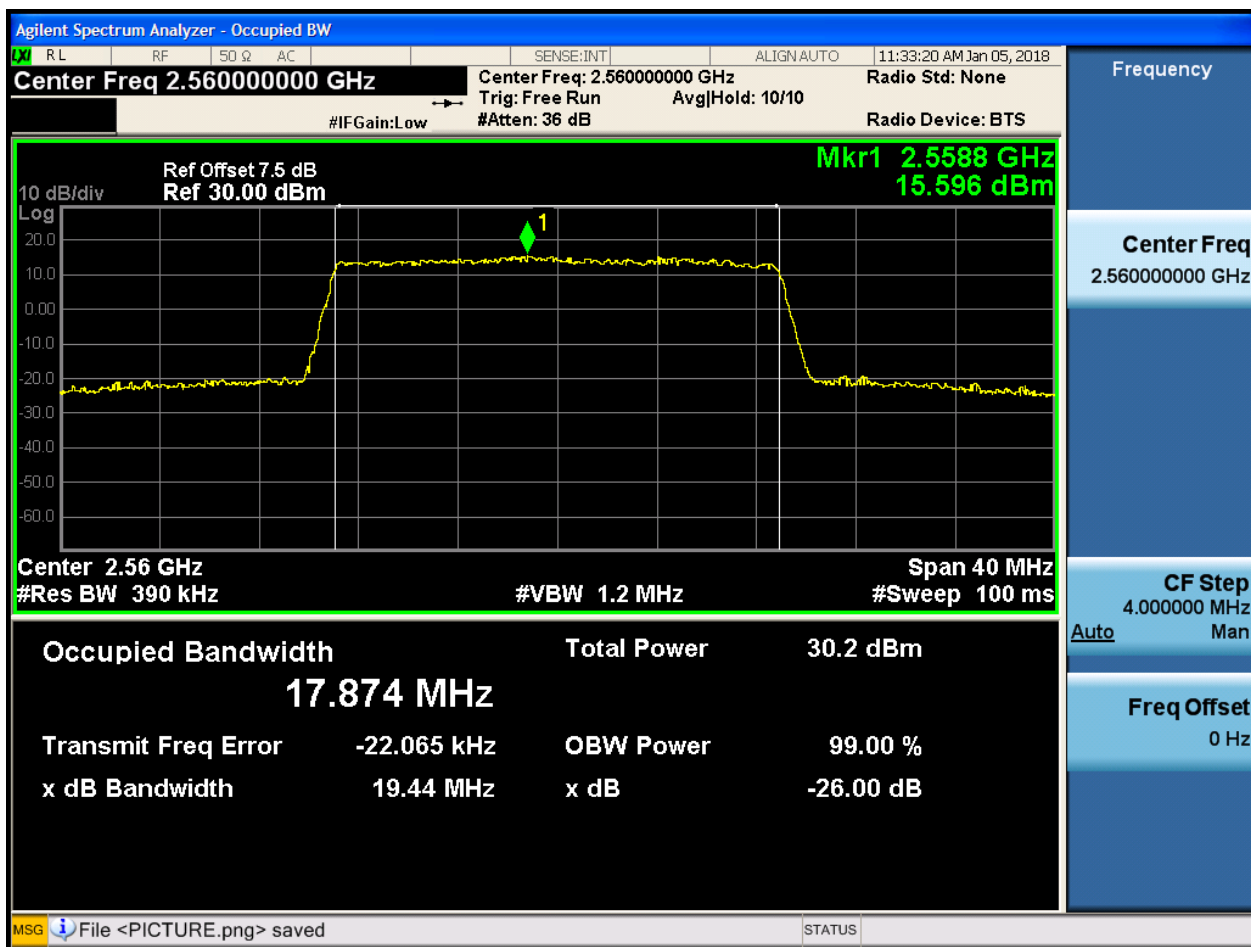
4.1.1.2.4.2.1 Test RB = RB100#0





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

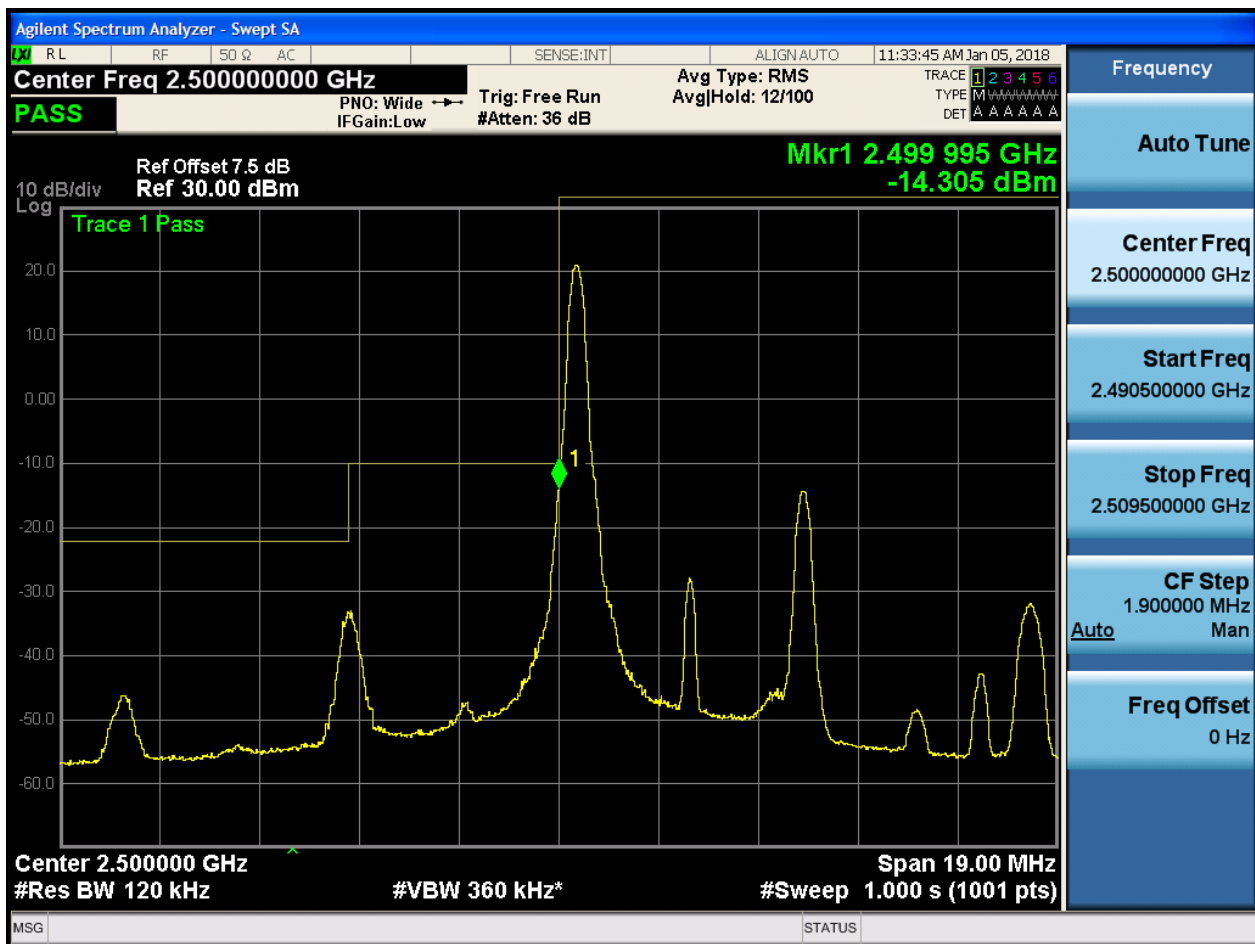
5.1.1 Test Band = BAND7

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 11:34:03 AM Jan 05, 2018

Center Freq 2.500000000 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
-44.778 dBm

10 dB/div
Log

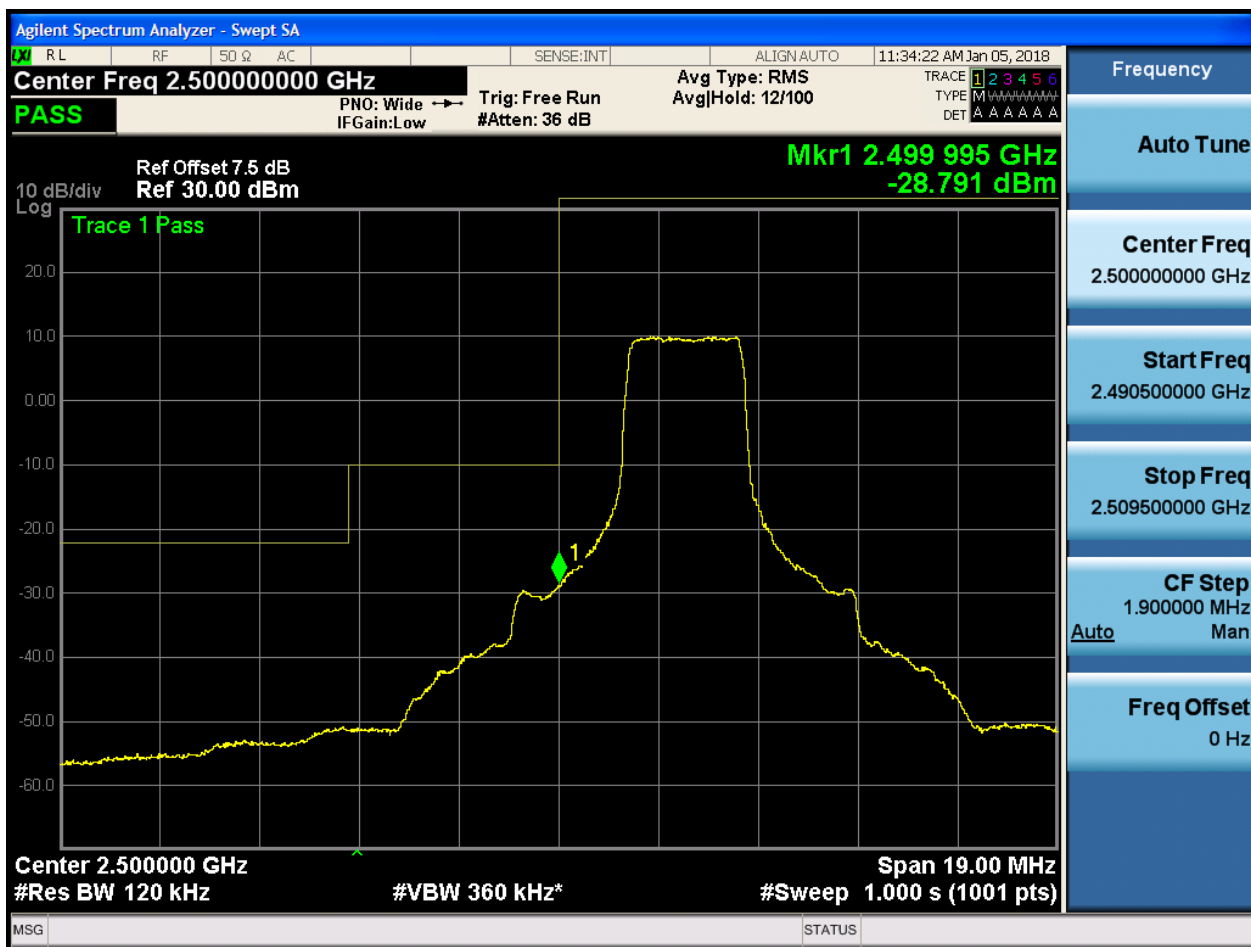
Trace 1 Pass

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

MSG STATUS

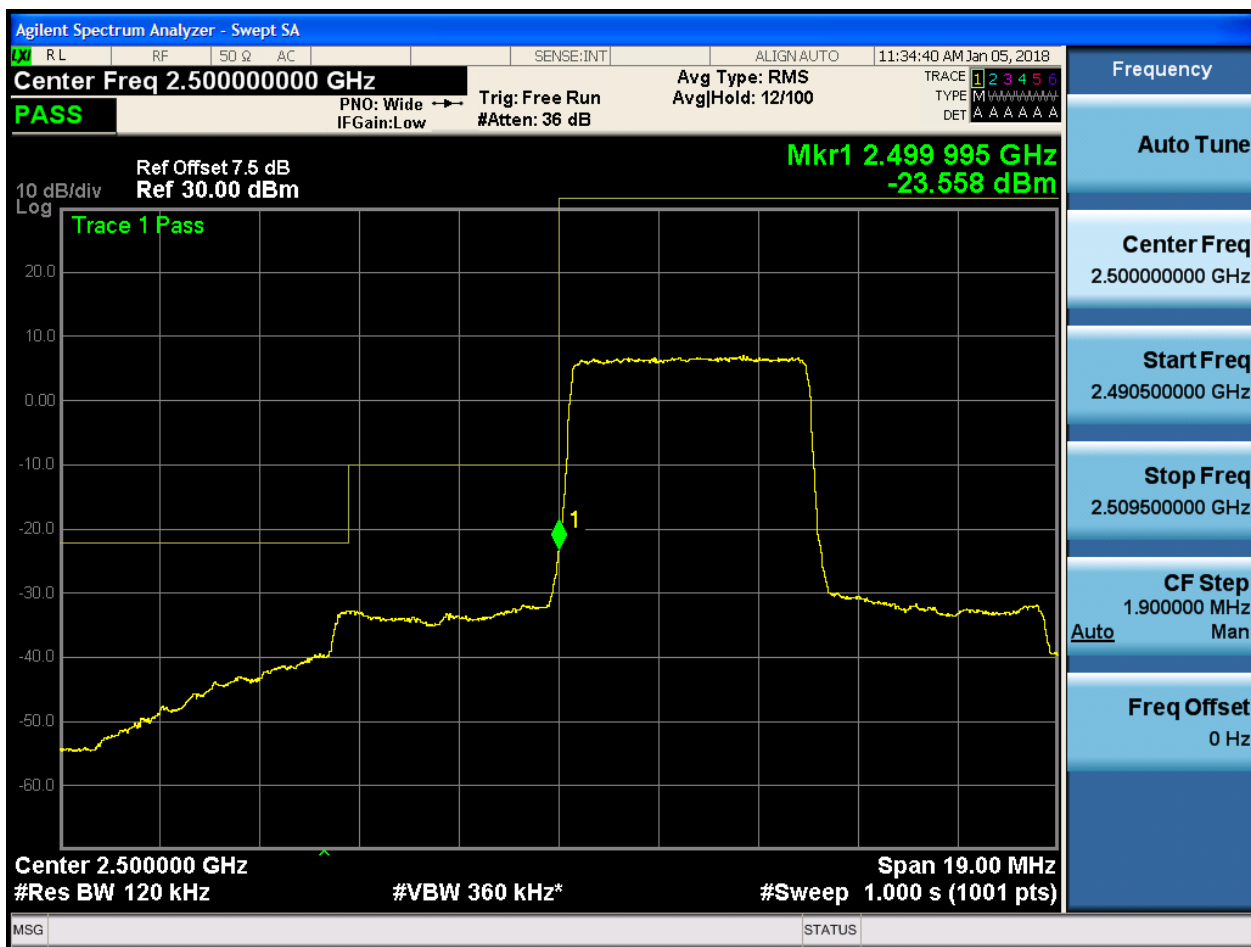


5.1.1.1.1.3 Test RB = RB12#6





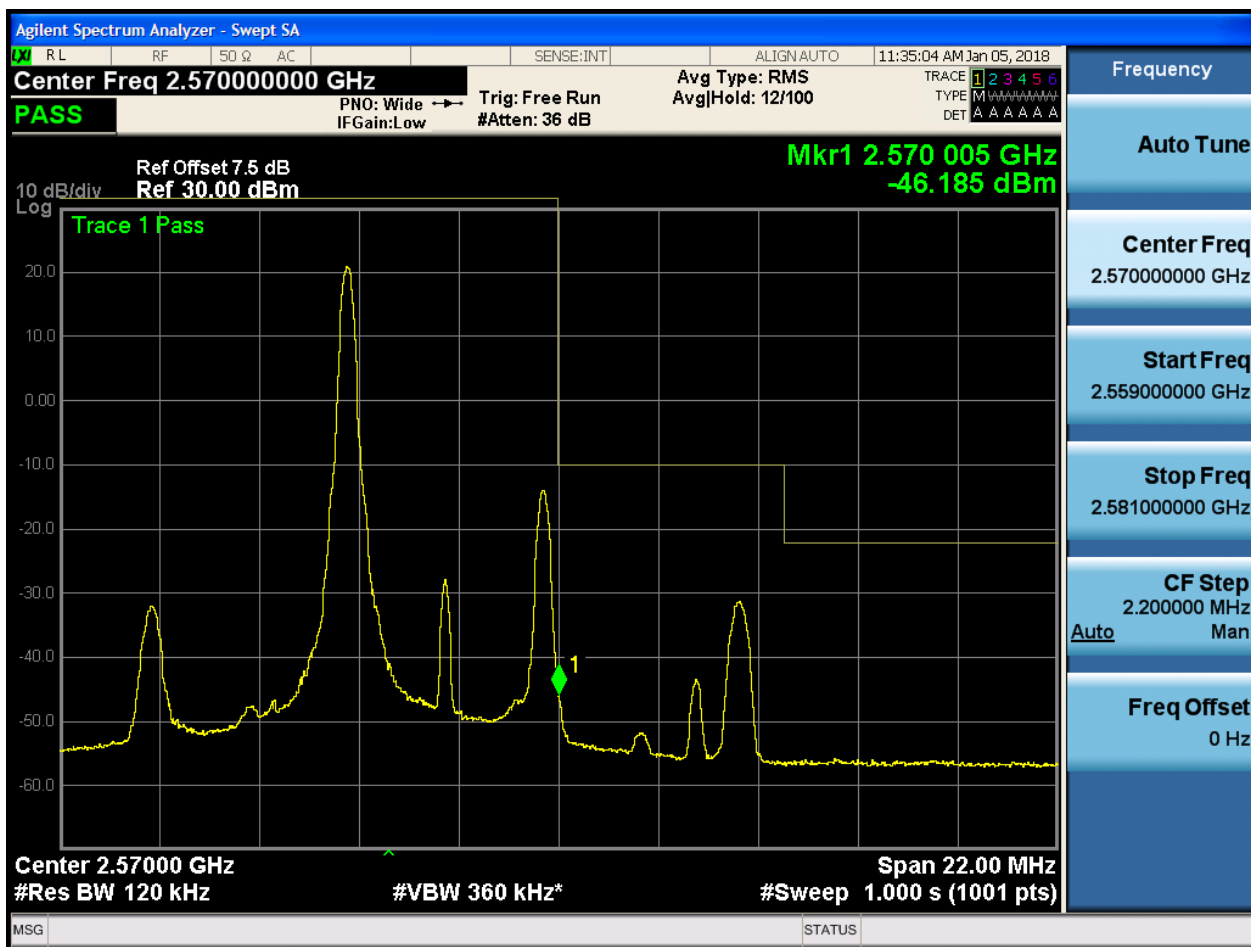
5.1.1.1.1.4 Test RB = RB25#0





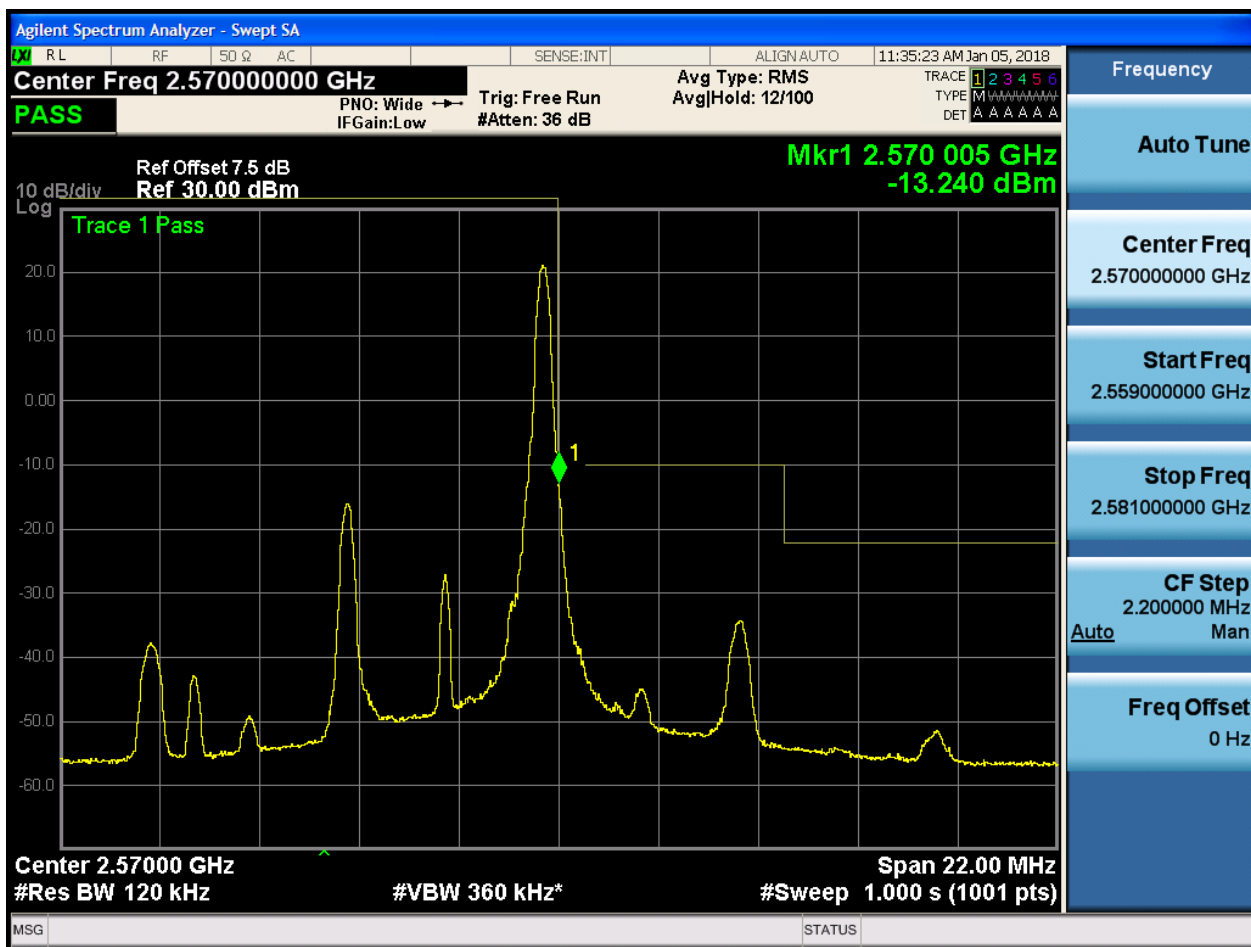
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:35:41 AM Jan 05, 2018

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
-28.076 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

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.559000000 GHz

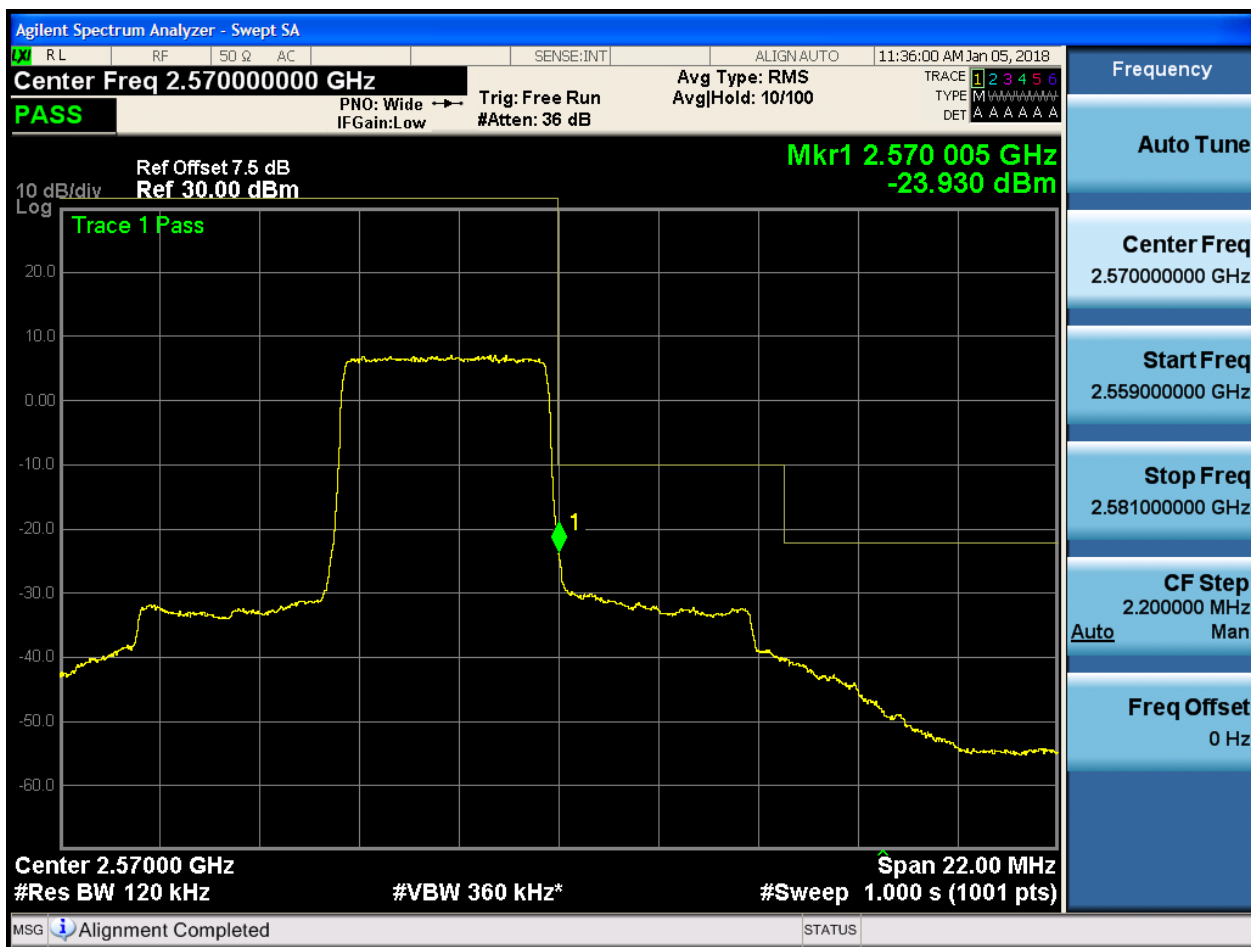
Stop Freq
2.581000000 GHz

CF Step
2.200000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.2.4 Test RB = RB25#0

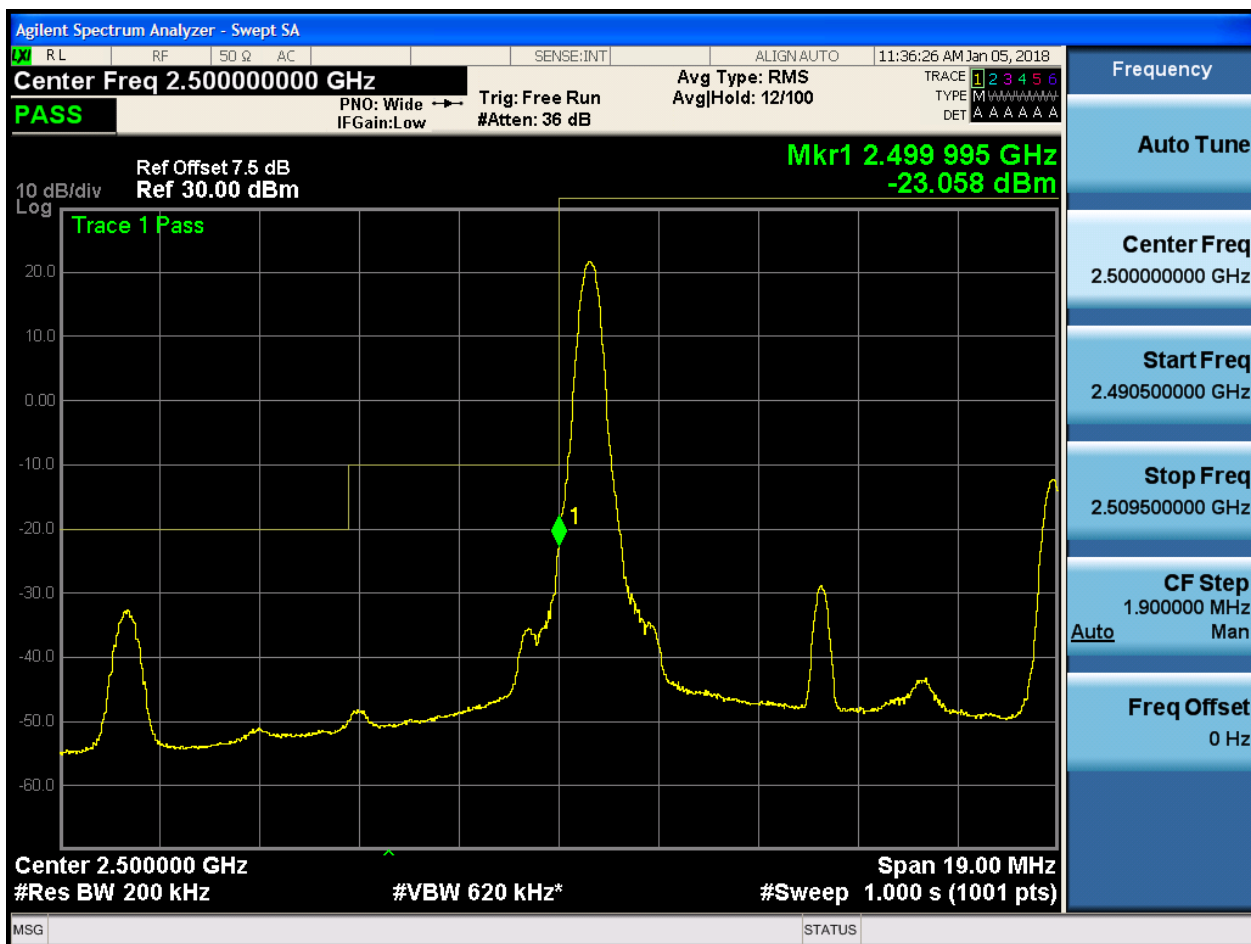




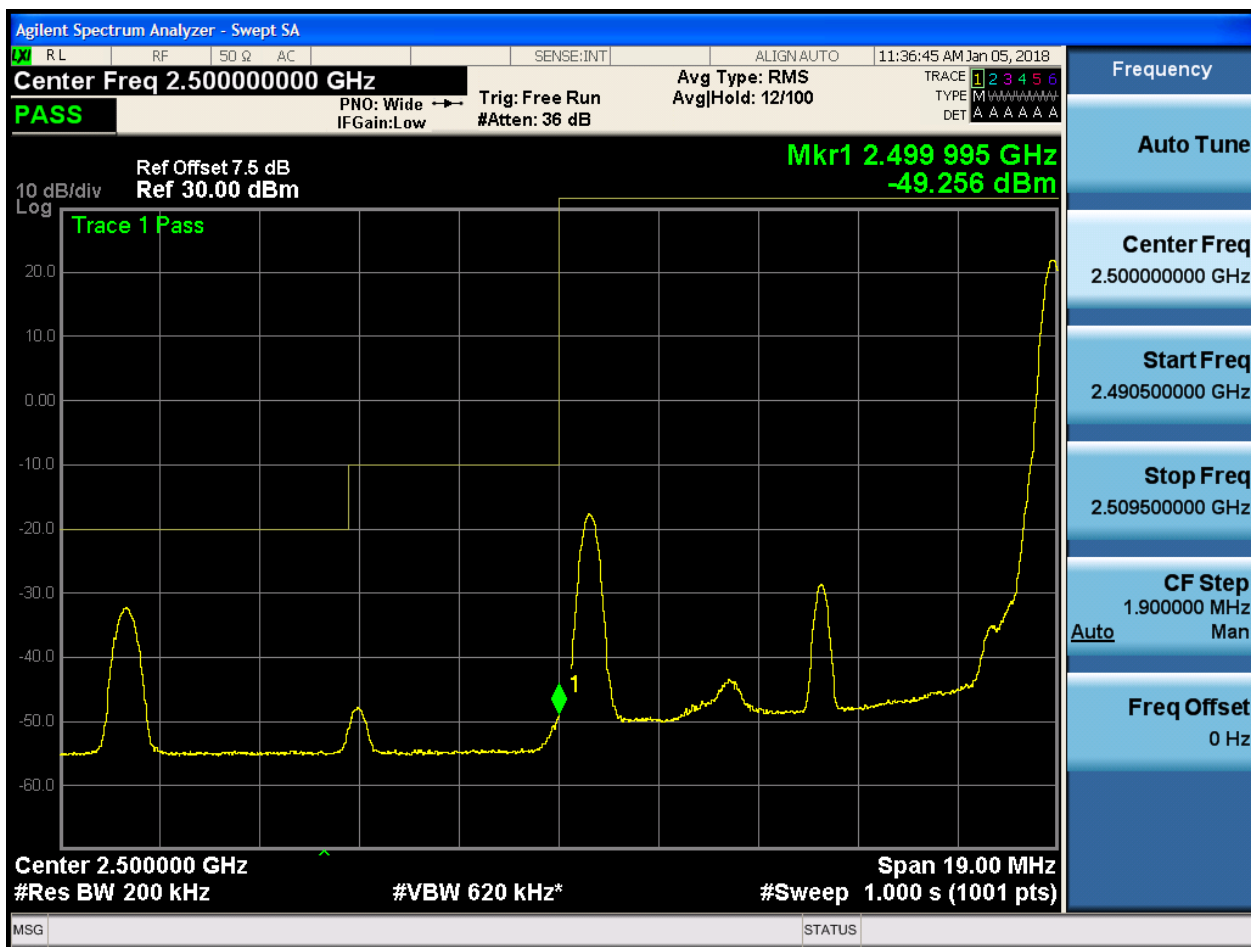
5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0



5.1.1.1.2.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:37:03 AM Jan 05, 2018

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 M M
DET A A A A A A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-30.510 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

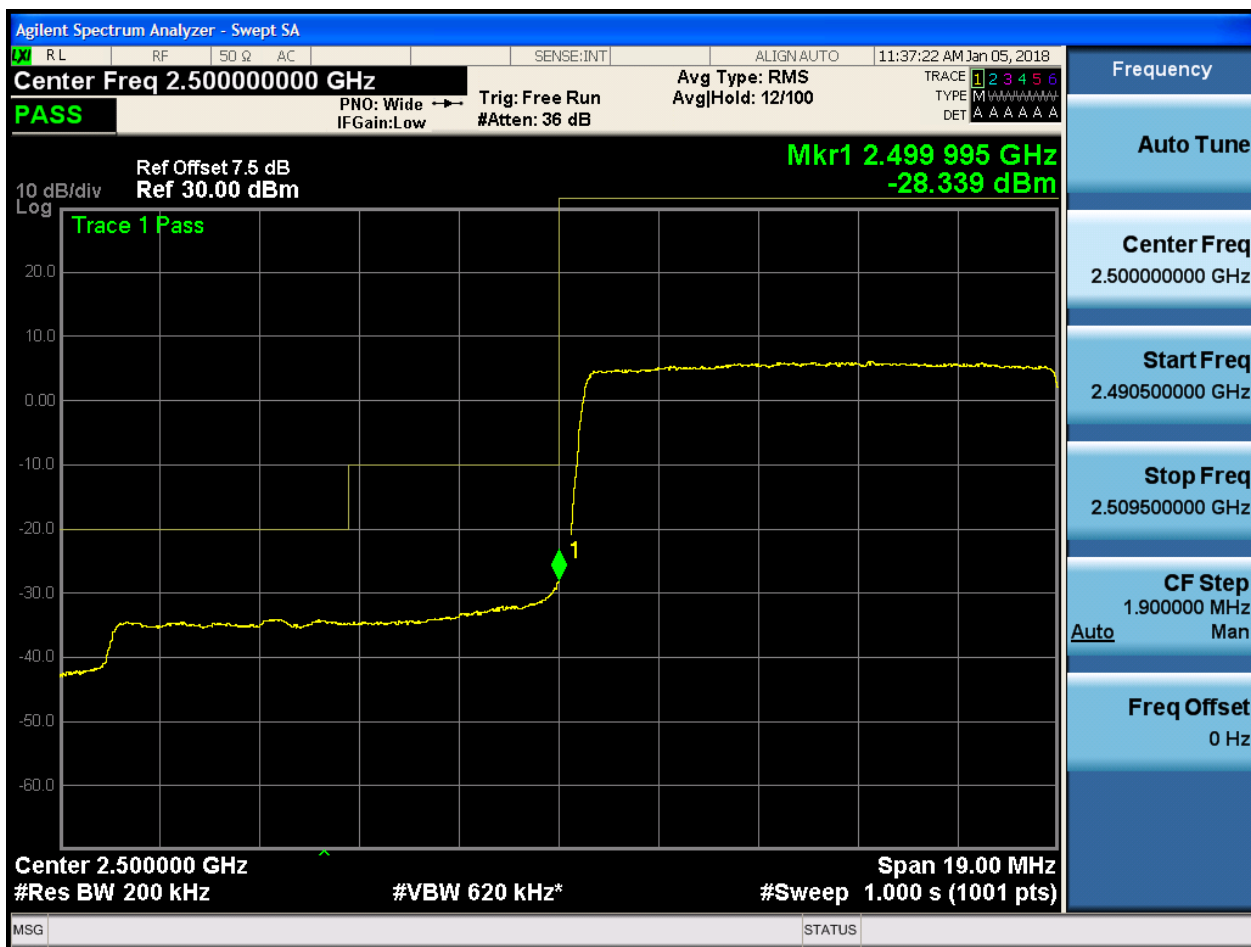
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

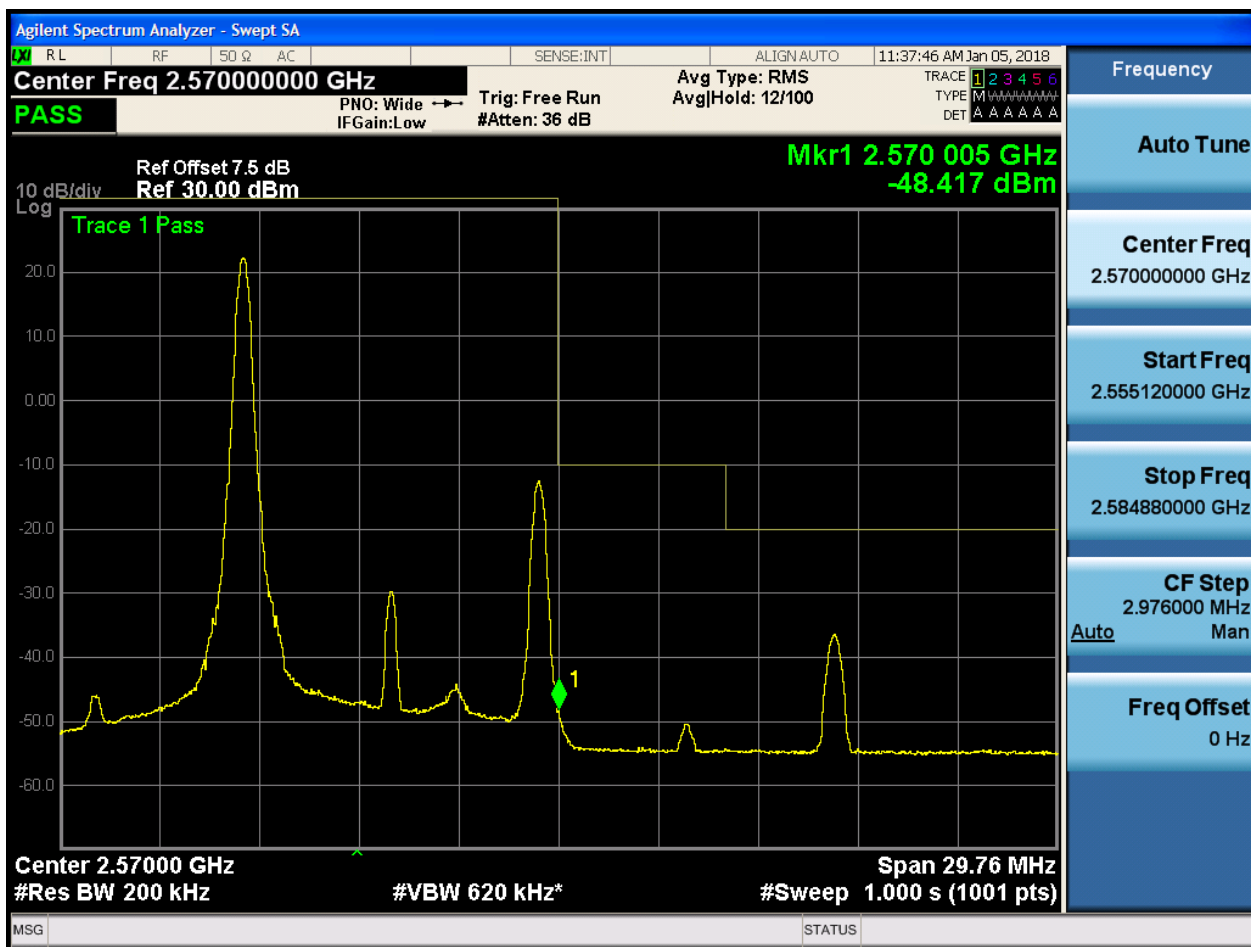


5.1.1.1.2.1.4 Test RB = RB50#0



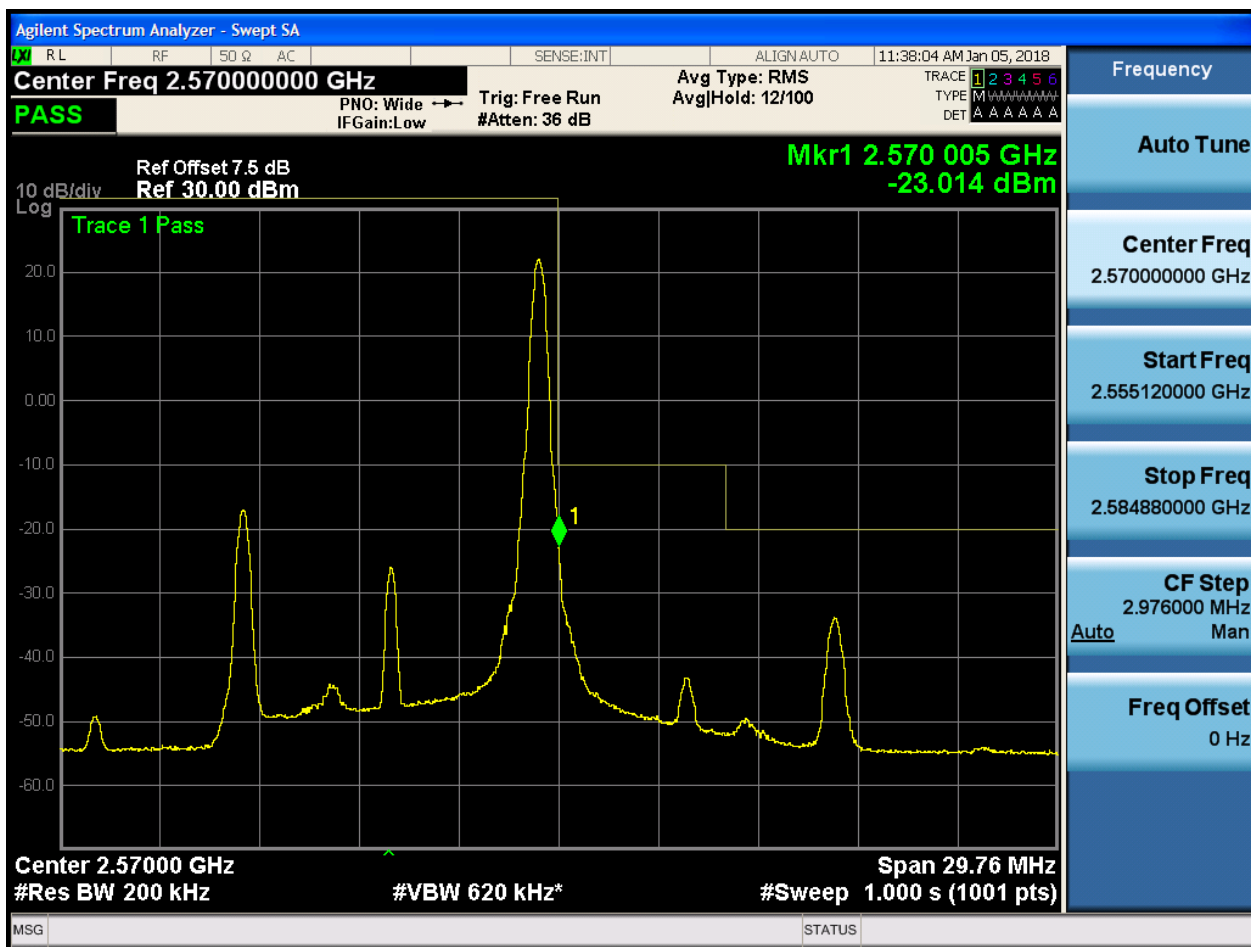
5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:38:23 AM Jan 05, 2018

Center Freq 2.57000000 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 2.570 005 GHz
-30.130 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 29.76 MHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 2.570000000 GHz
Start Freq 2.555120000 GHz
Stop Freq 2.584880000 GHz
CF Step 2.976000 MHz Auto Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:38:41 AM Jan 05, 2018

Center Freq 2.57000000 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 2.570 005 GHz
-28.181 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 200 kHz
#VBW 620 kHz
Span 29.76 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.570000000 GHz

Start Freq
2.555120000 GHz

Stop Freq
2.584880000 GHz

CF Step
2.976000 MHz
Auto Man

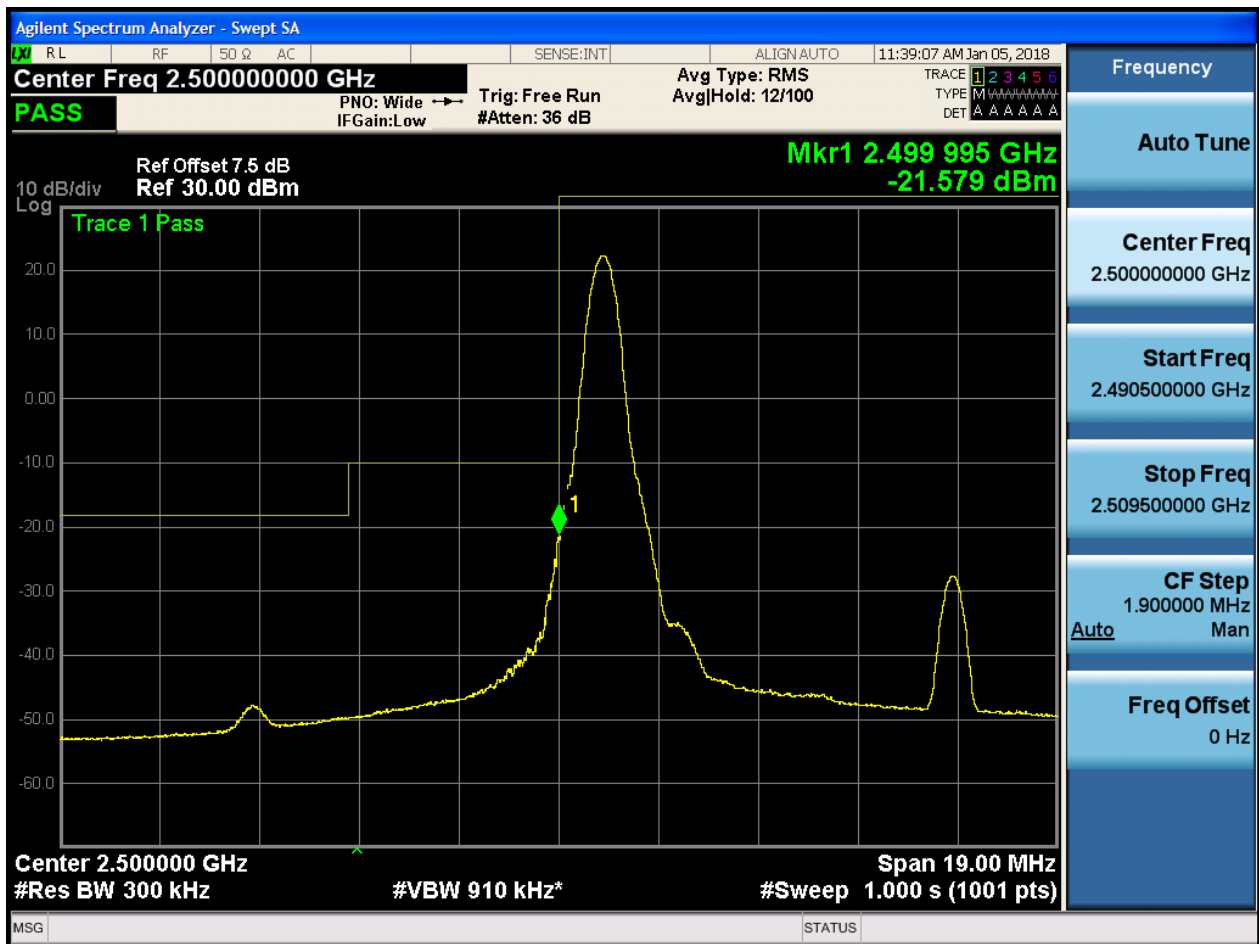
Freq Offset
0 Hz



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 11:39:26 AM Jan 05, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
#Res BW 300 kHz IFGain:Low Trig: Free Run AvgHold: 12/100
PNO: Wide → #Atten: 36 dB

PASS

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-49.043 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 300 kHz #VBW 910 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 11:39:44 AM Jan 05, 2018

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 A

Ref Offset 7.5 dB
Ref 30.00 dBm

Mkr1 2.499 995 GHz
-30.458 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.500000 GHz Span 19.00 MHz
#Res BW 300 kHz #VBW 910 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

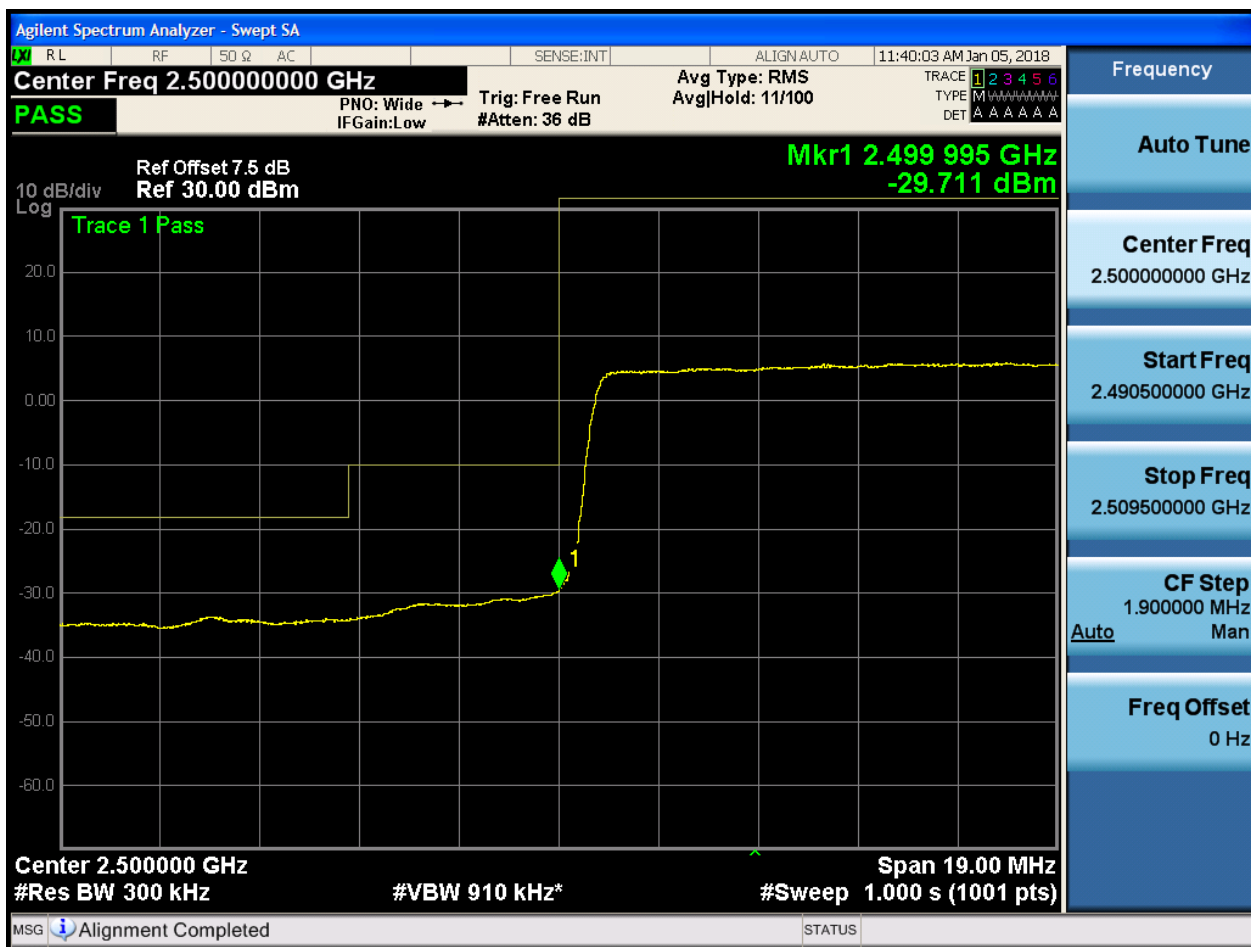
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



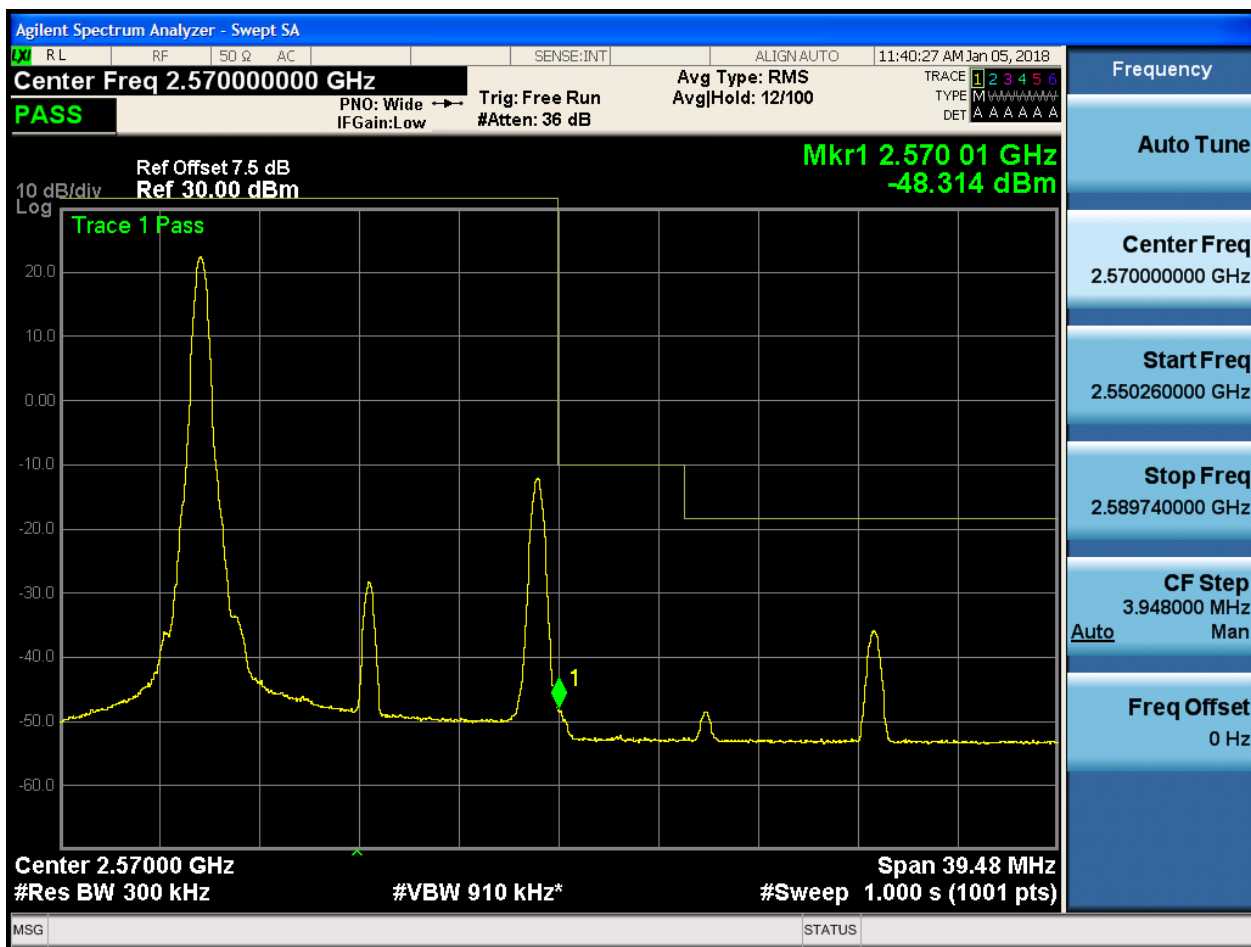
5.1.1.1.3.1.4 Test RB = RB75#0





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 11:40:45 AM Jan 05, 2018

Center Freq 2.57000000 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 2.570 01 GHz
-21.318 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 300 kHz
#VBW 910 kHz*
Span 39.48 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
2.57000000 GHz

Start Freq
2.550260000 GHz

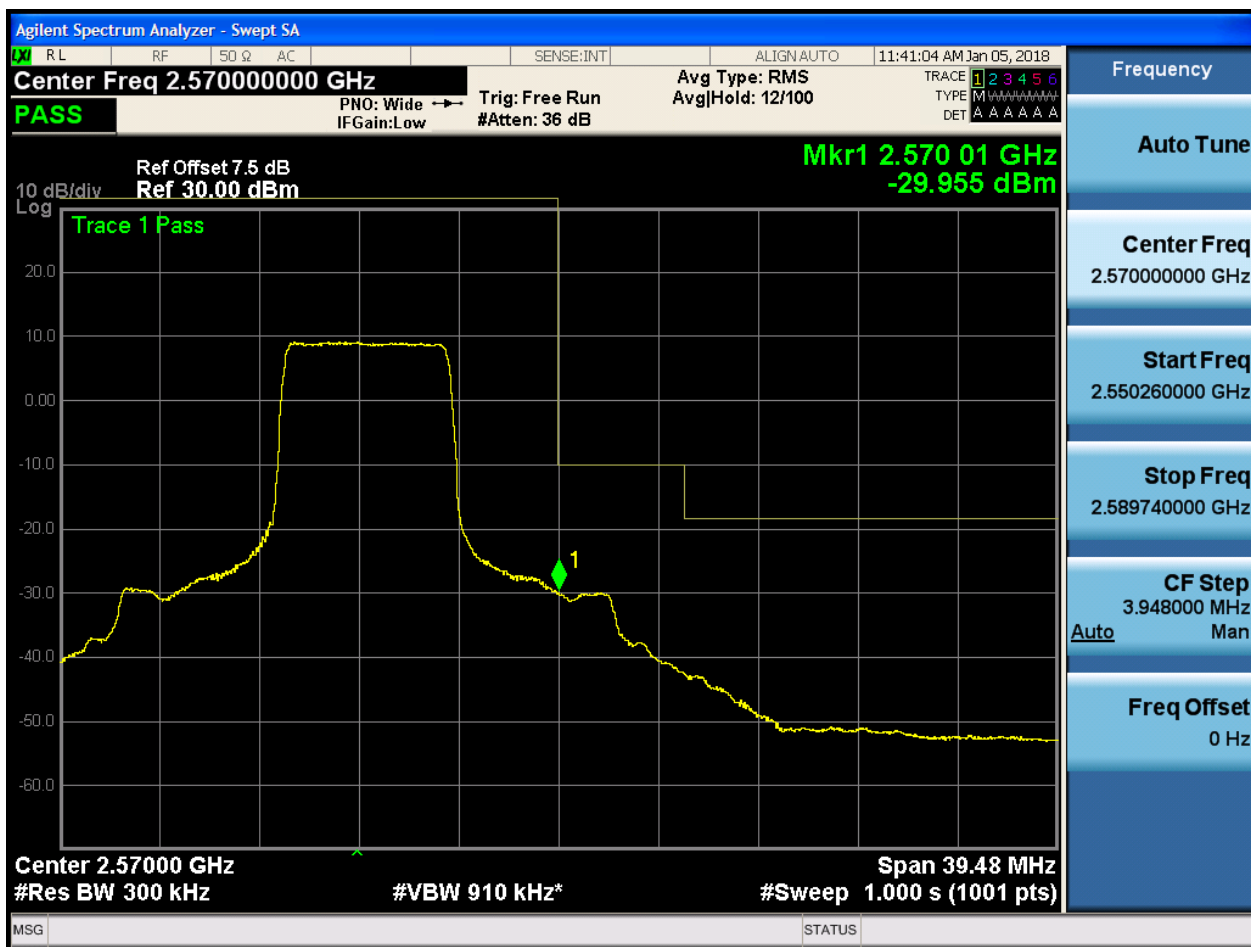
Stop Freq
2.589740000 GHz

CF Step
3.948000 MHz
Auto Man

Freq Offset
0 Hz



5.1.1.1.3.2.3 Test RB = RB38#19





5.1.1.1.3.2.4 Test RB = RB75#0

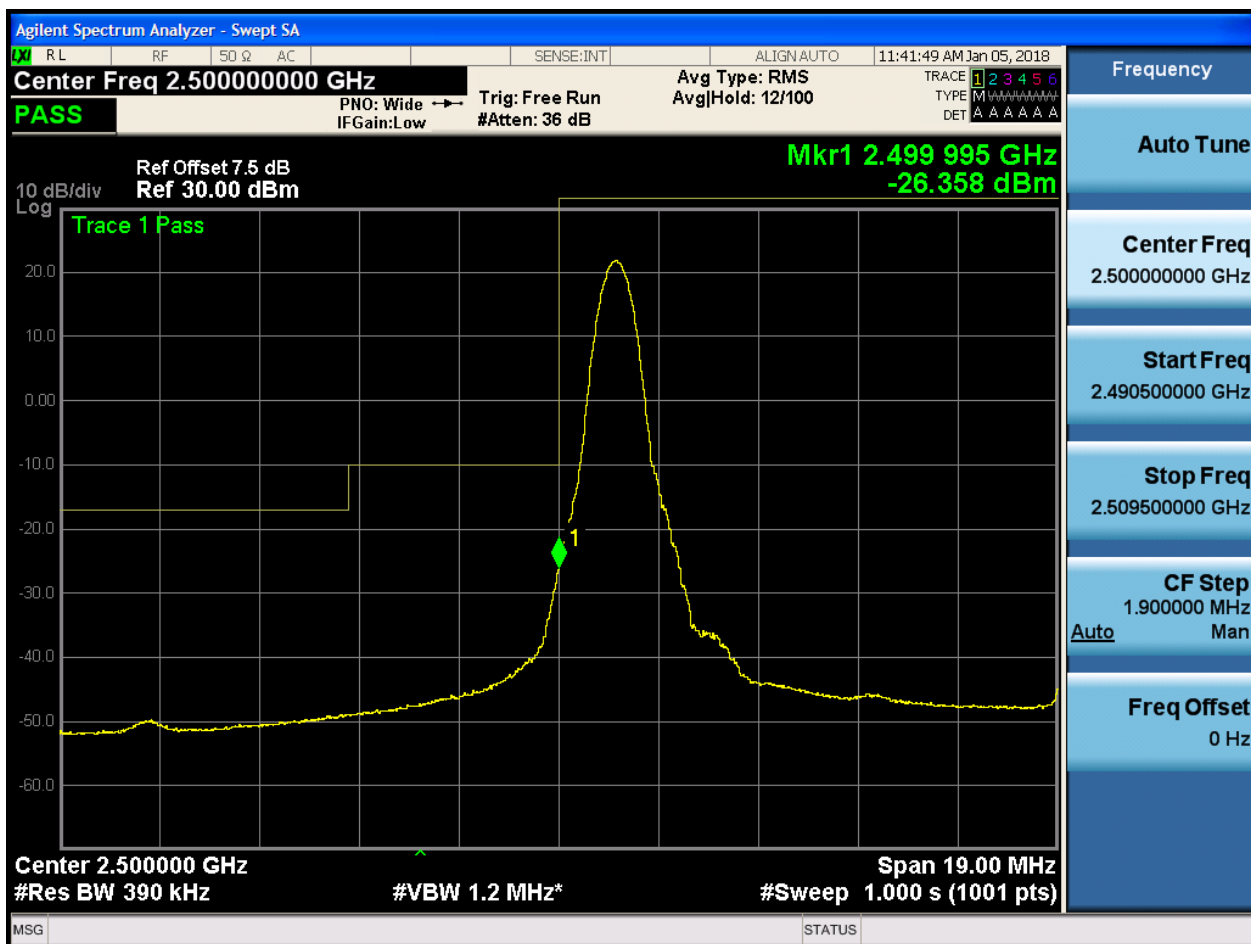




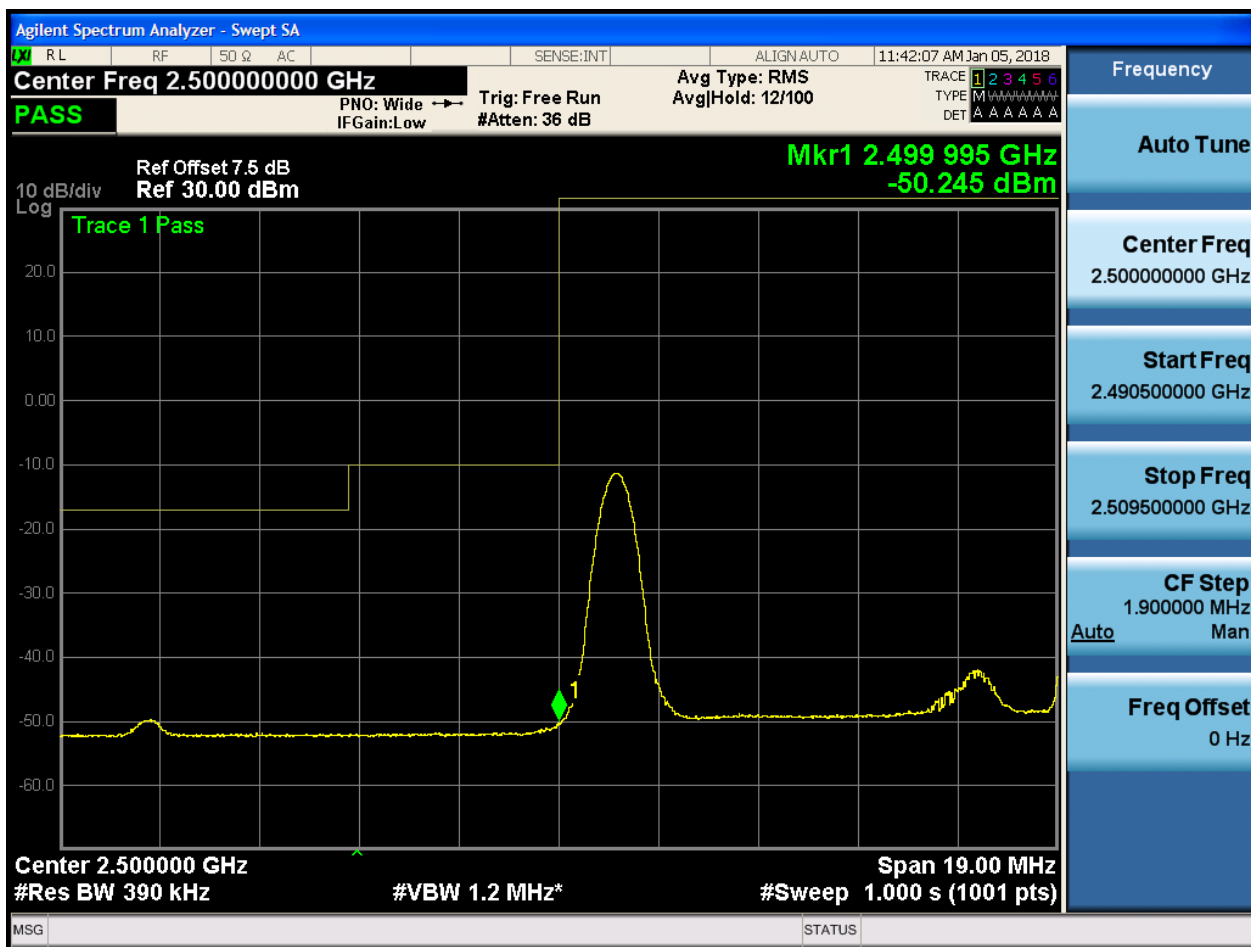
5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0

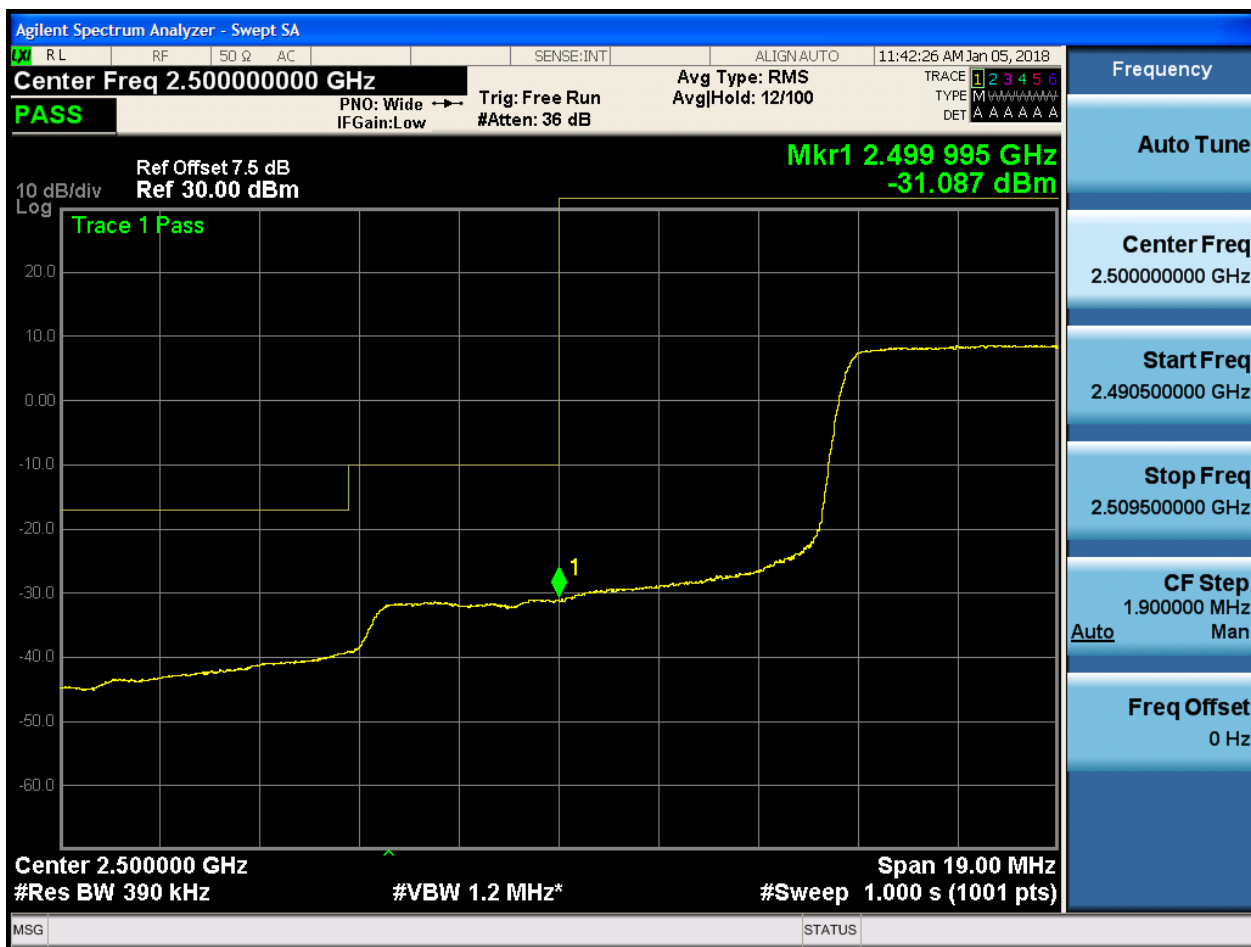


5.1.1.1.4.1.2 Test RB = RB1#99



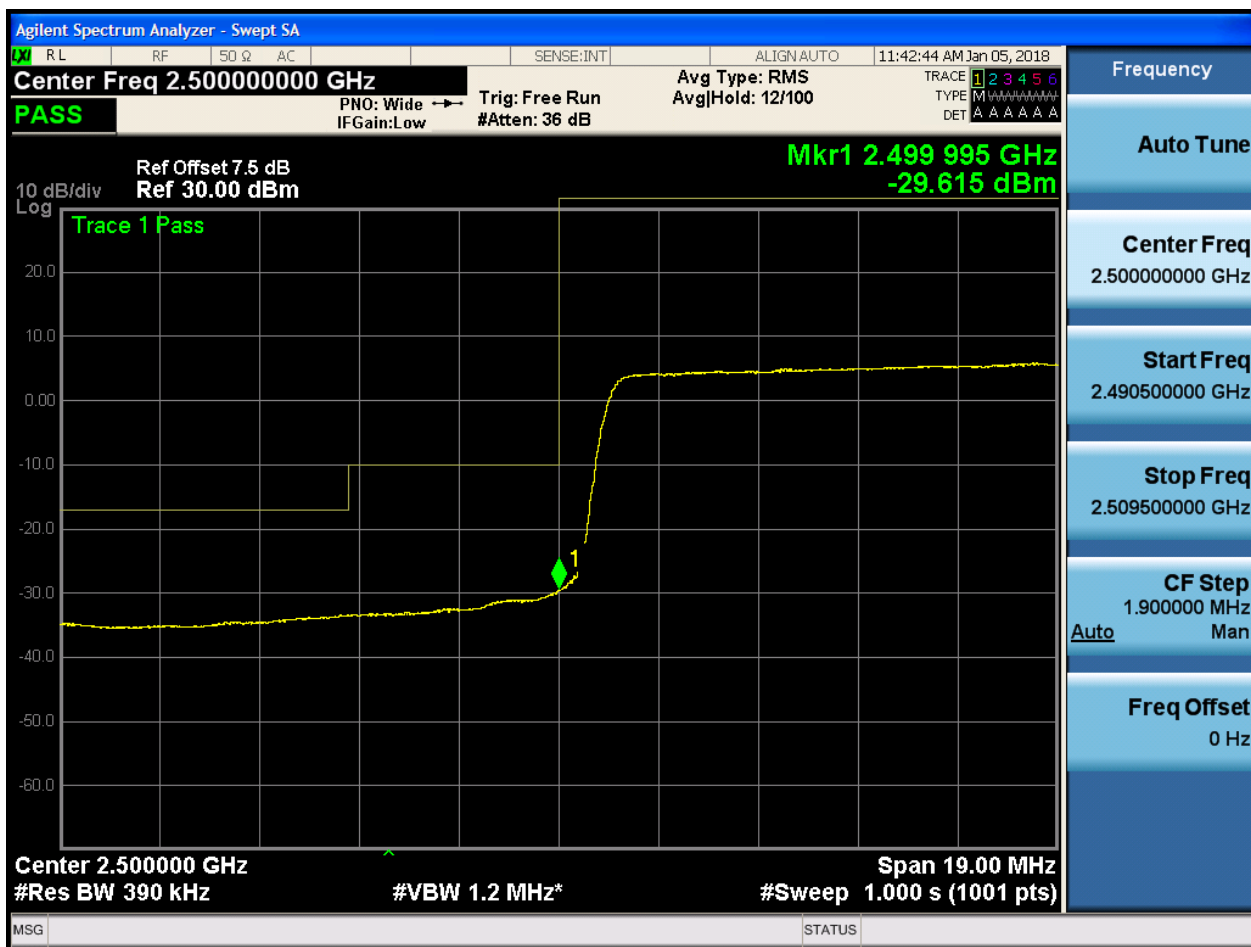


5.1.1.1.4.1.3 Test RB = RB50#25





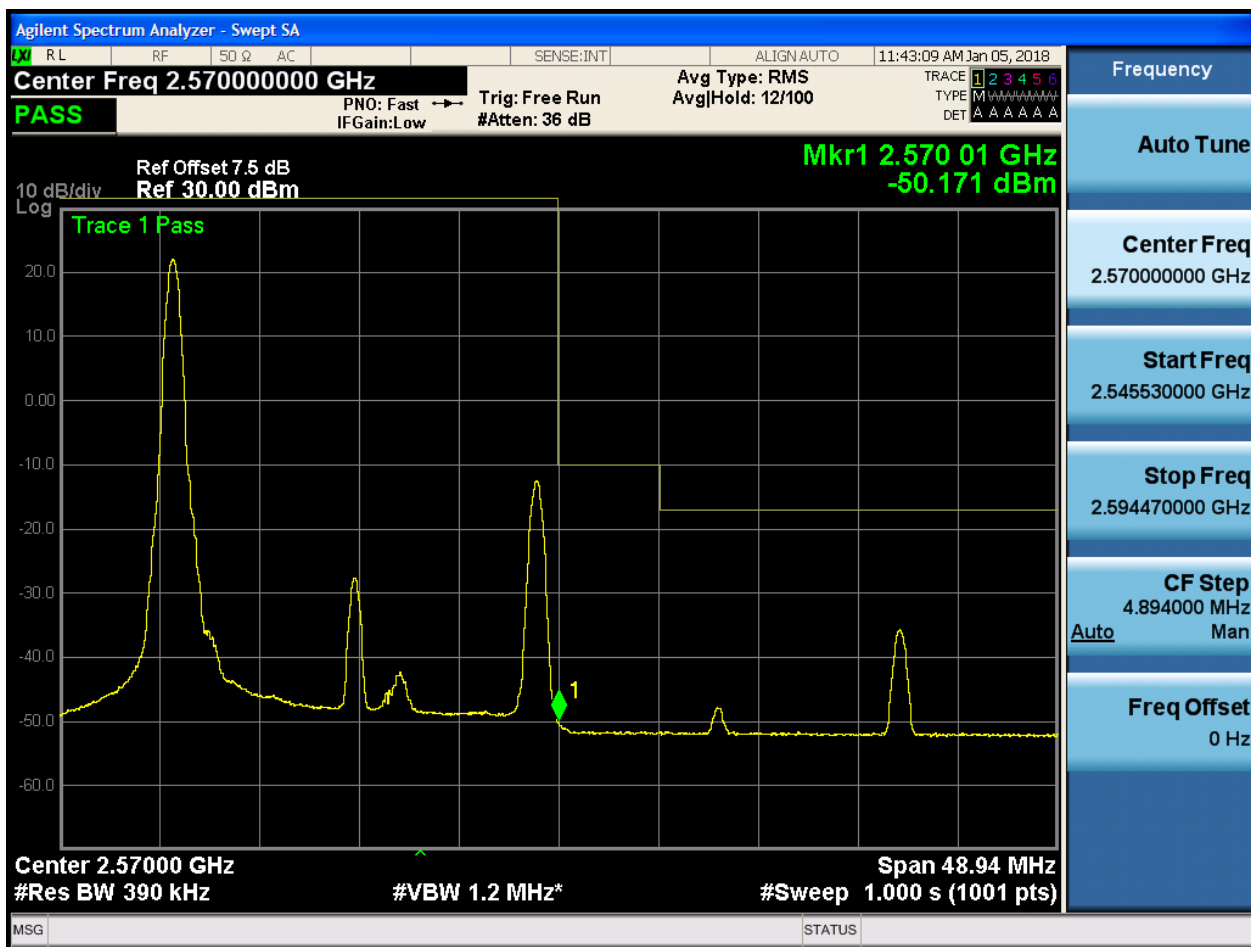
5.1.1.1.4.1.4 Test RB = RB100#0





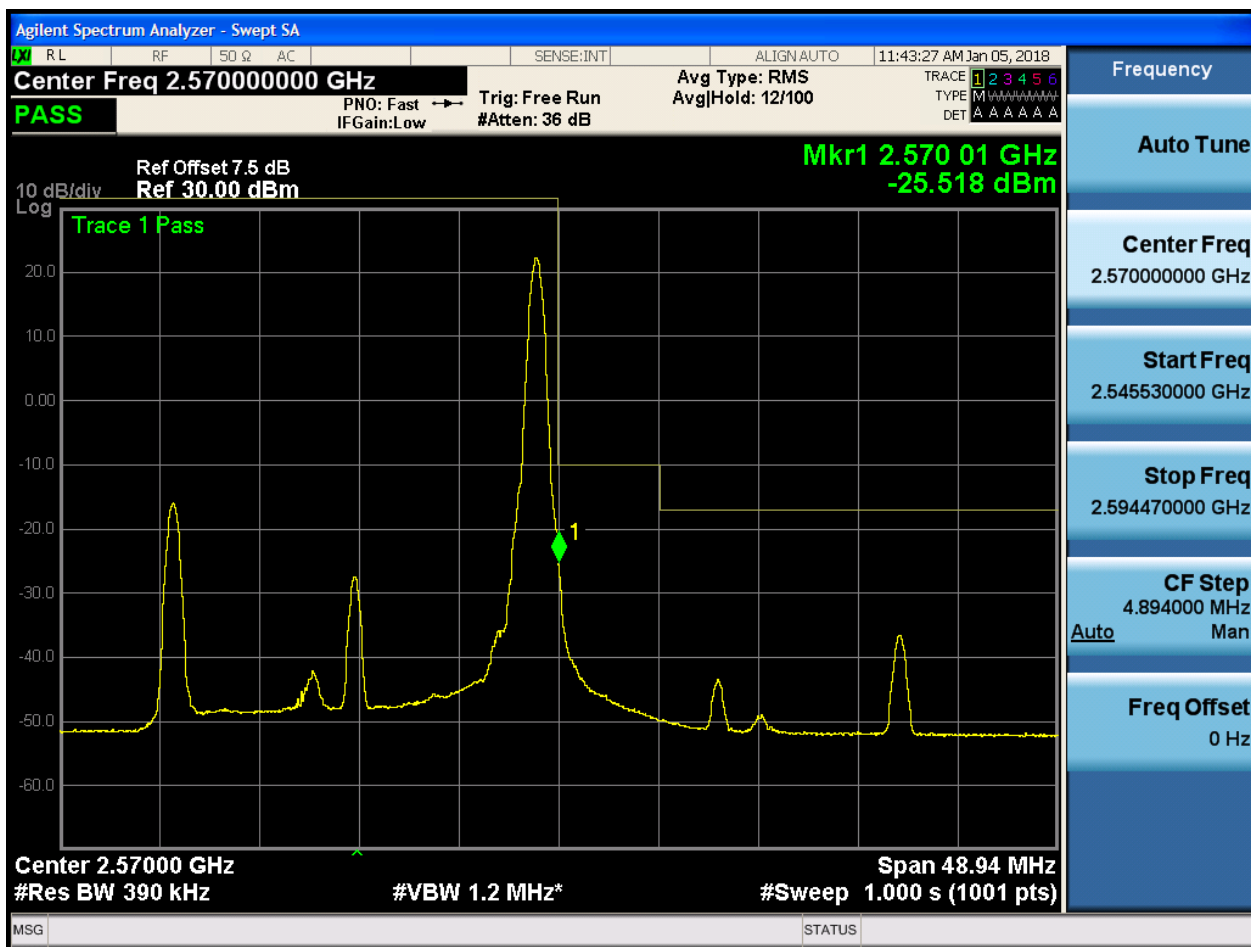
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0



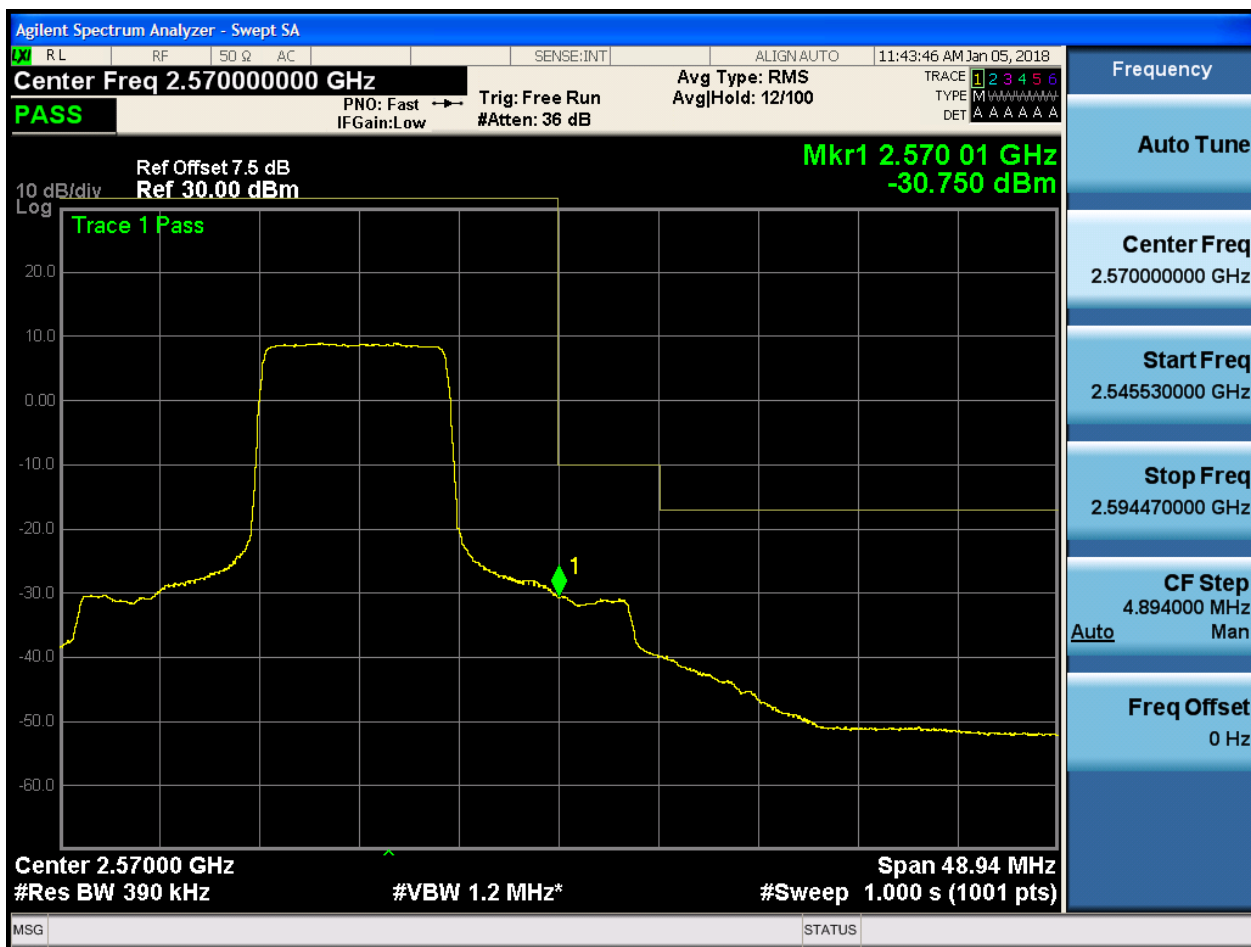


5.1.1.1.4.2.2 Test RB = RB1#99





5.1.1.1.4.2.3 Test RB = RB50#25





5.1.1.1.4.2.4 Test RB = RB100#0



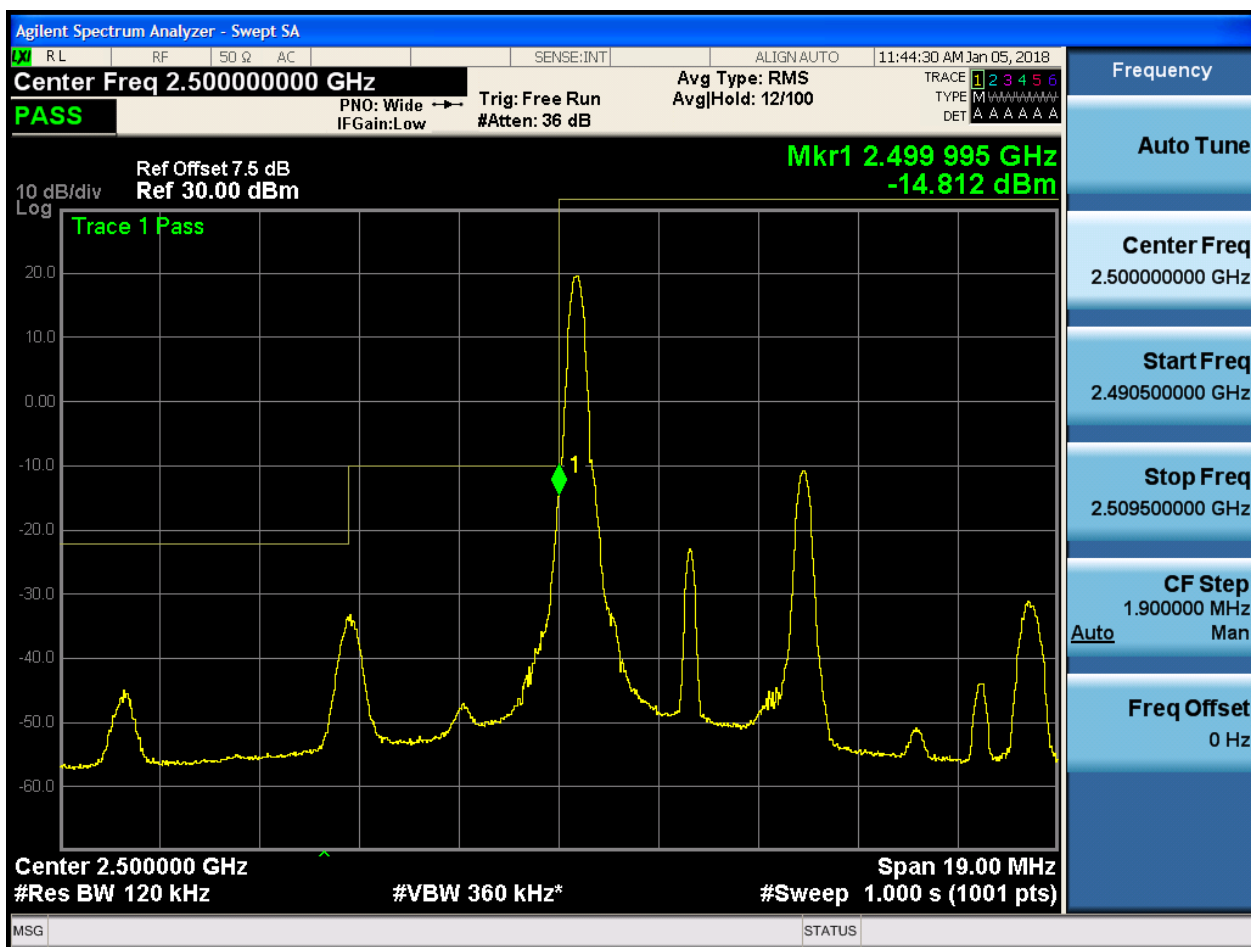


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 11:44:49 AM Jan 05, 2018

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
-44.727 dBm

10 dB/div
Log

Trace 1 Pass

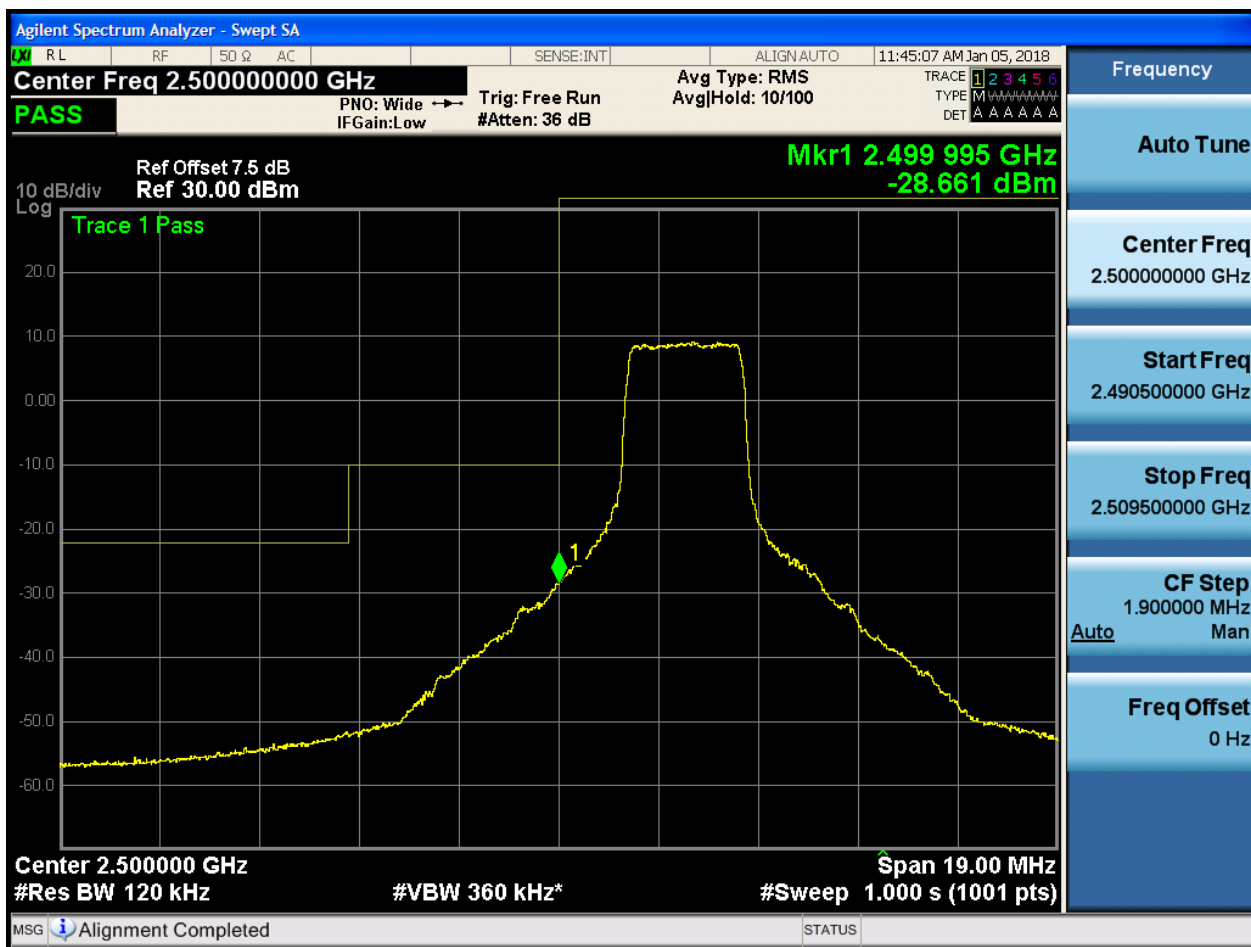
Center 2.500000 GHz Span 19.00 MHz
#Res BW 120 kHz #VBW 360 kHz* #Sweep 1.000 s (1001 pts)

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



5.1.1.2.1.1.3 Test RB = RB12#6





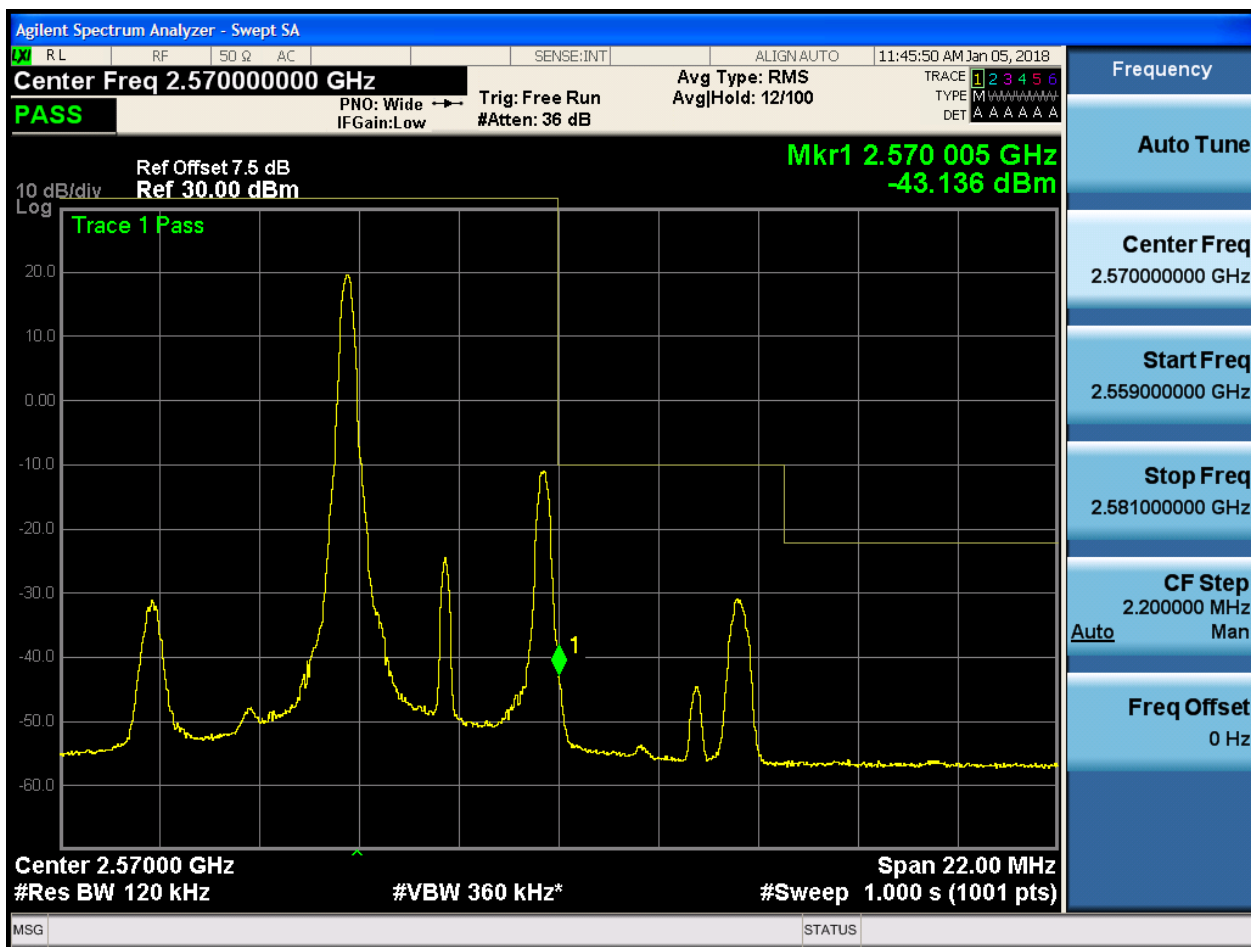
5.1.1.2.1.1.4 Test RB = RB25#0



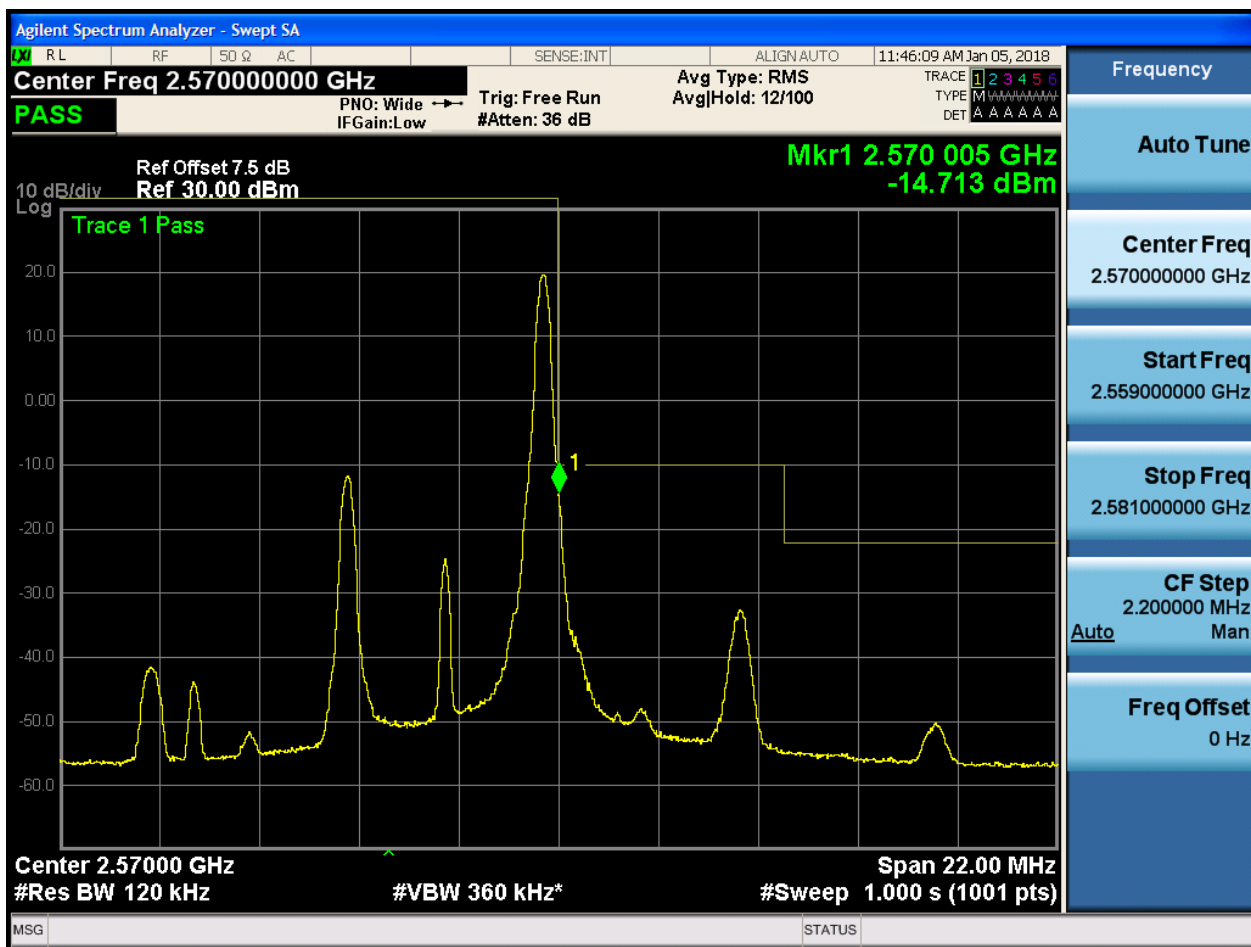


5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0

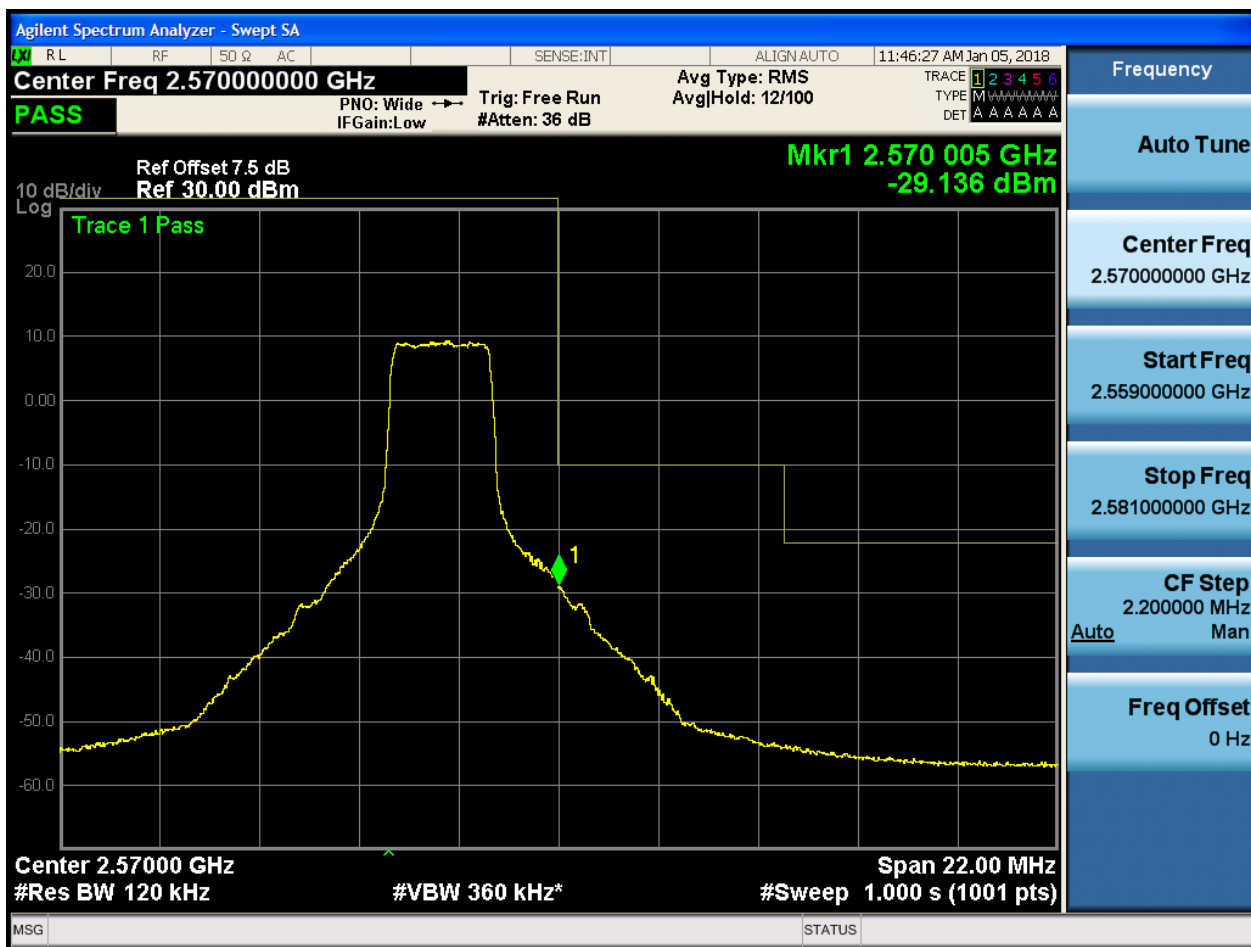


5.1.1.2.1.2.2 Test RB = RB1#24





5.1.1.2.1.2.3 Test RB = RB12#6





5.1.1.2.1.2.4 Test RB = RB25#0

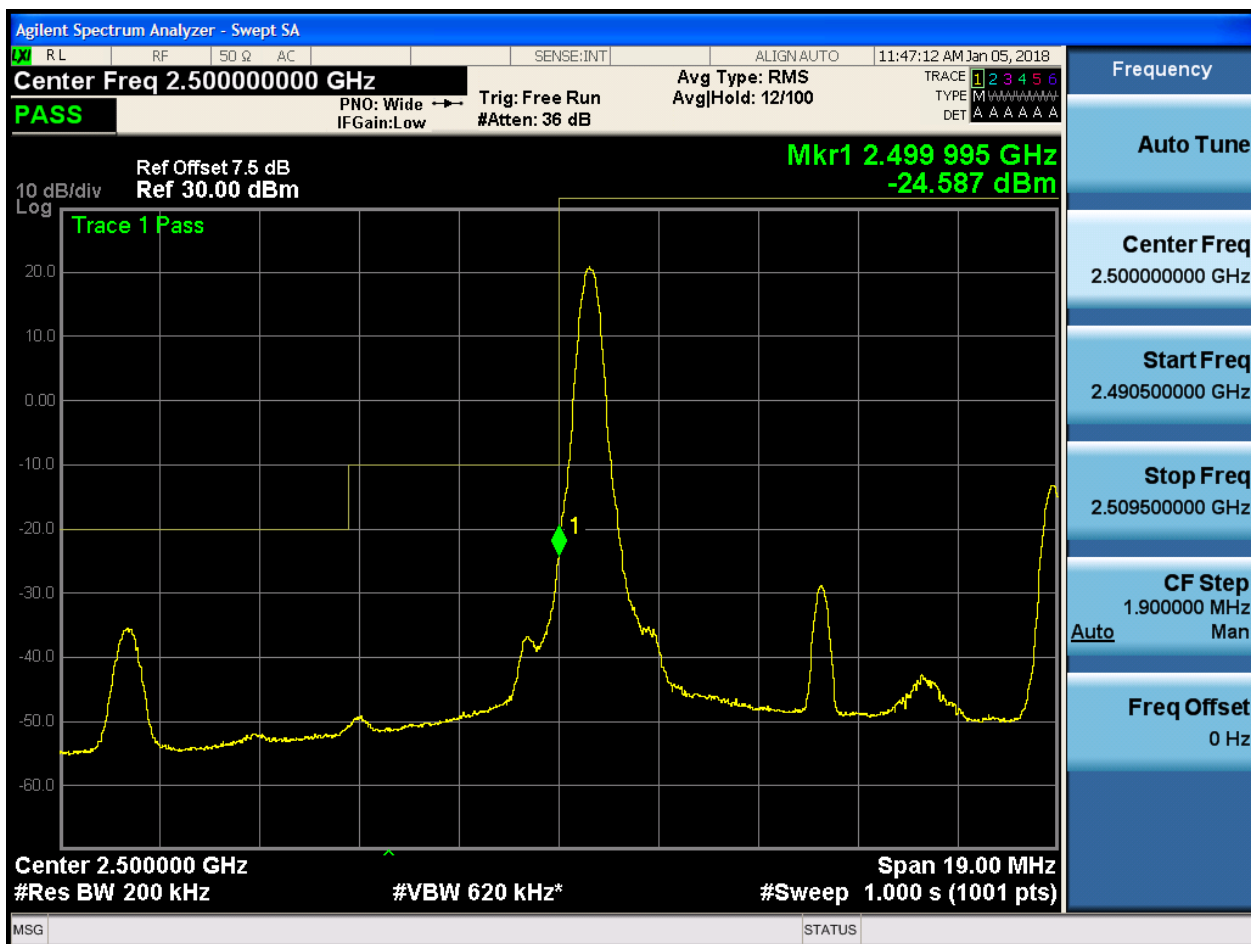




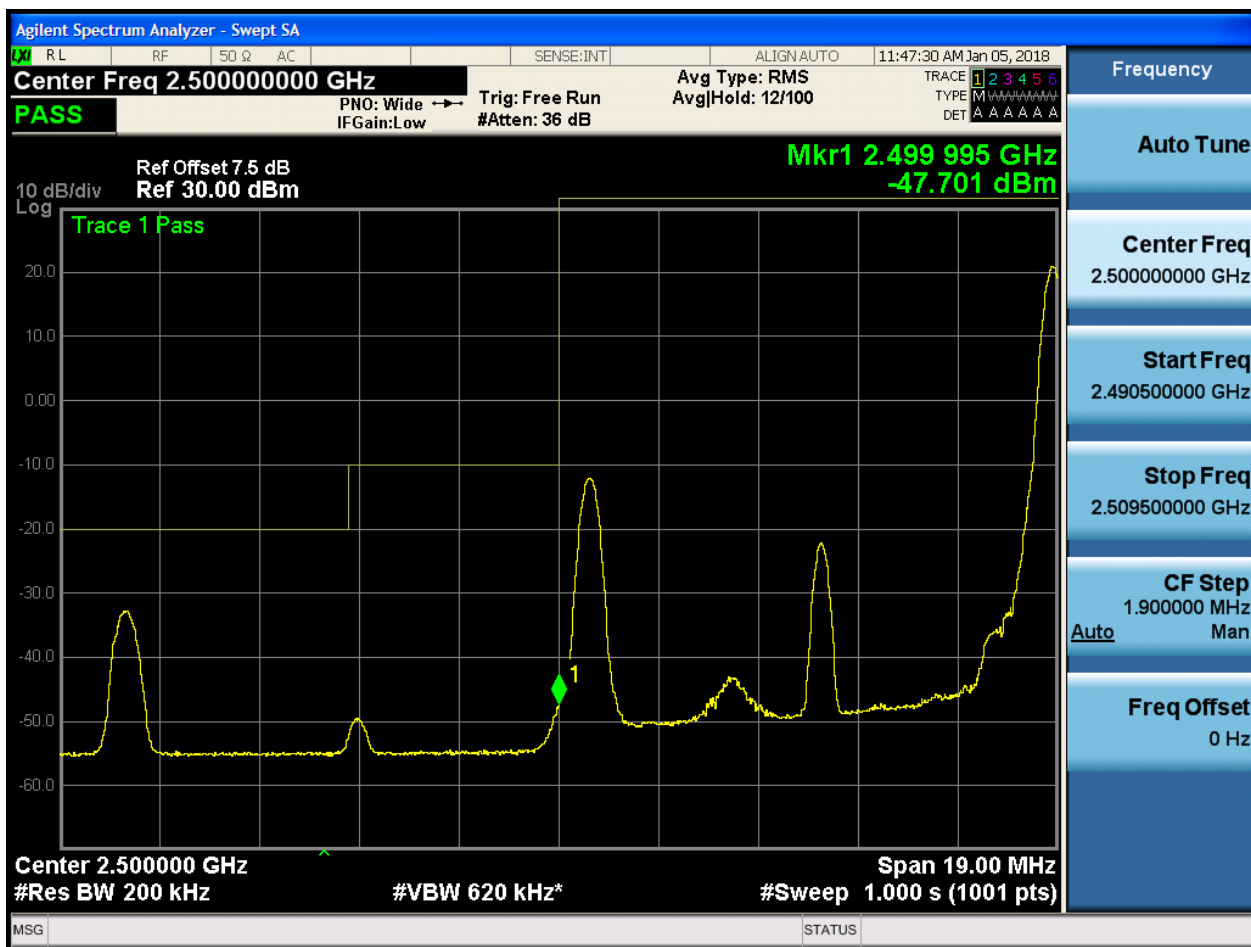
5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0

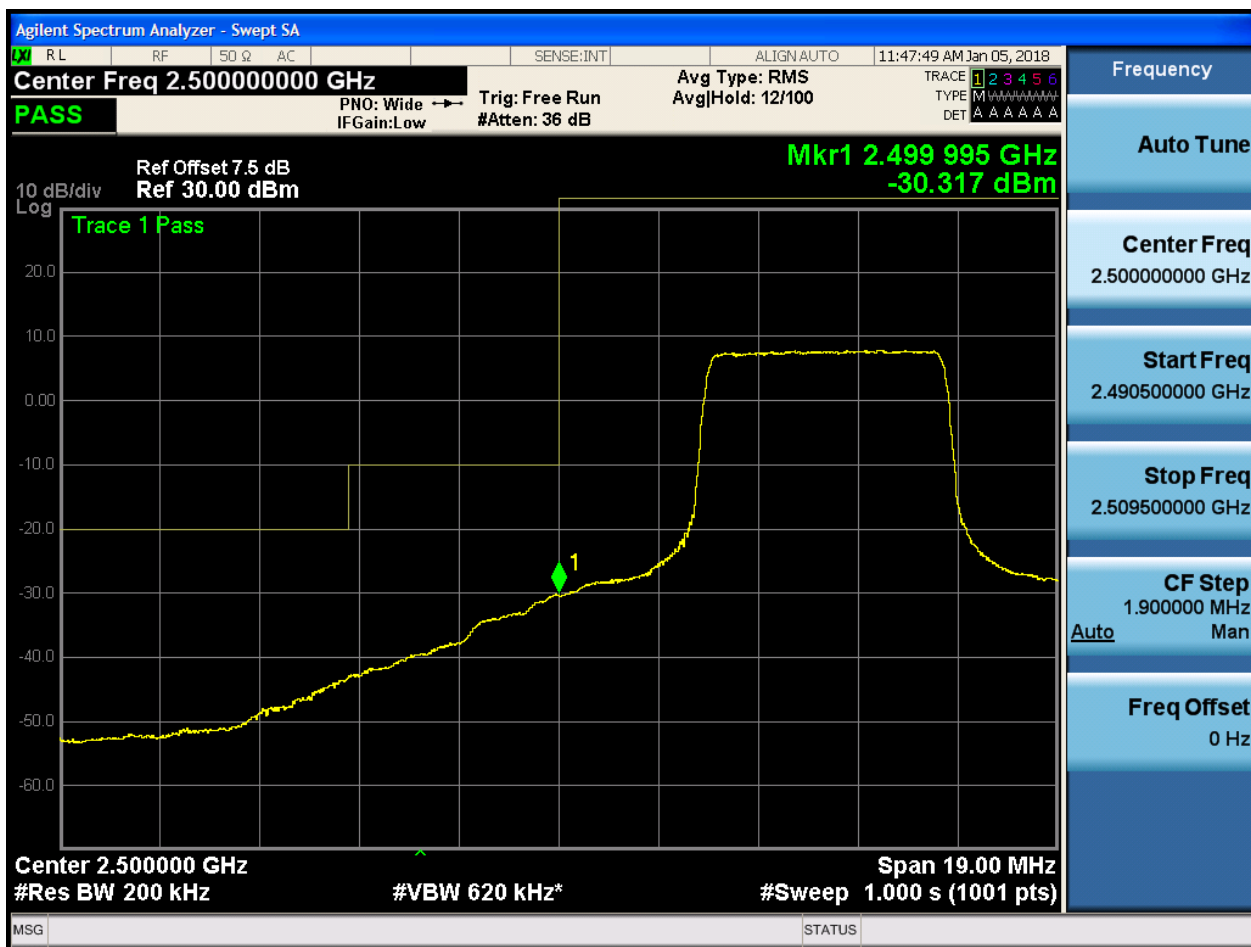


5.1.1.2.2.1.2 Test RB = RB1#49



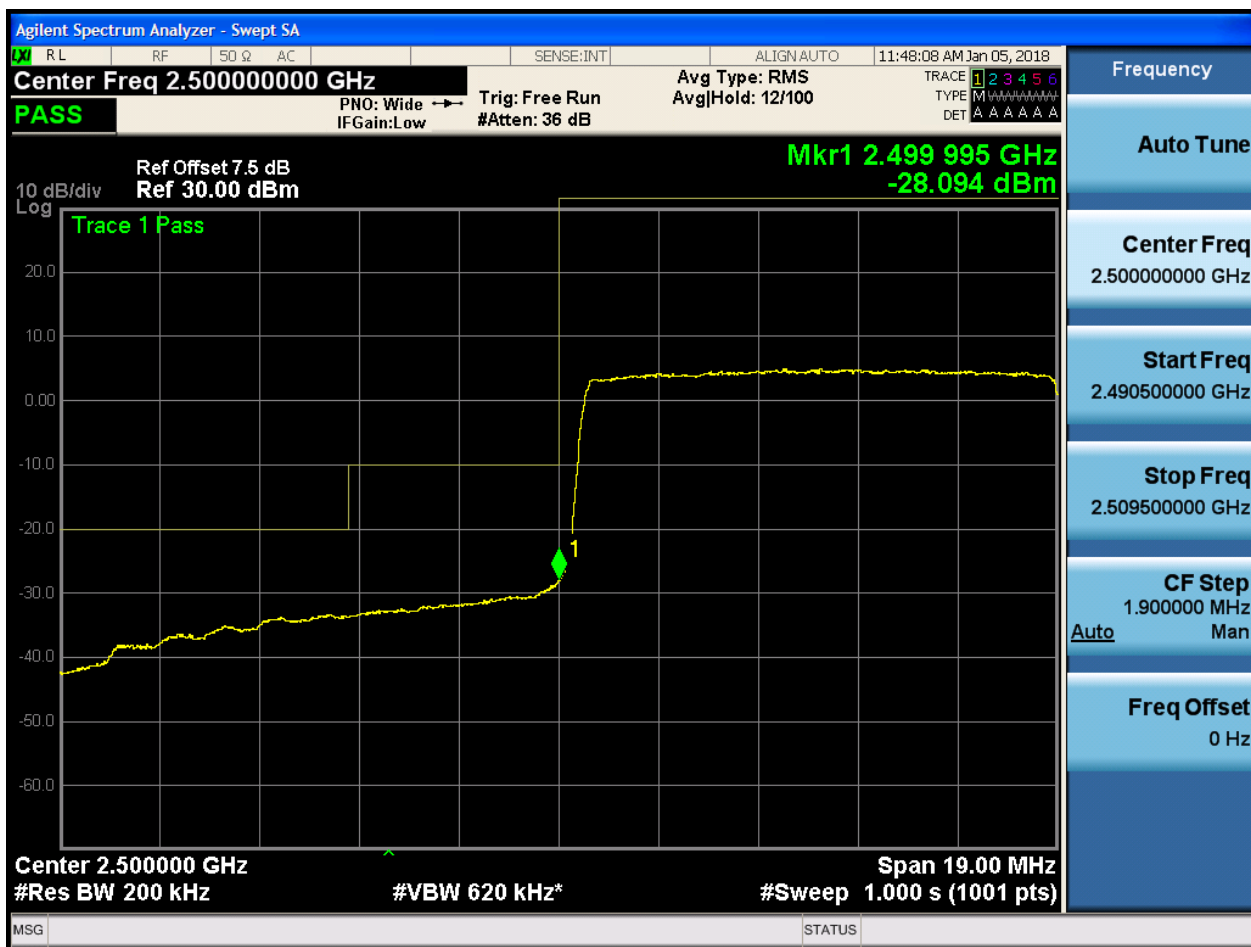


5.1.1.2.2.1.3 Test RB = RB25#13



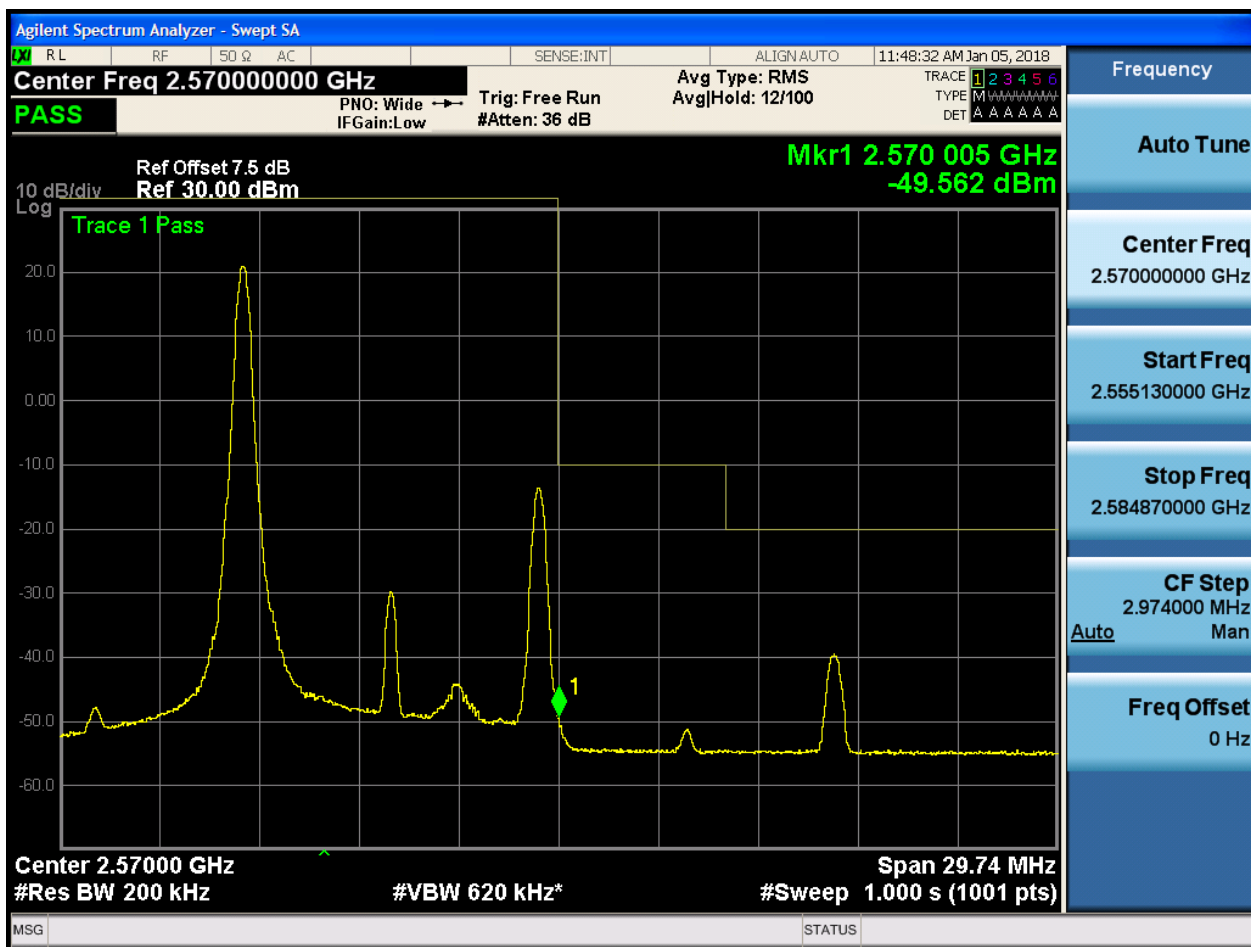


5.1.1.2.2.1.4 Test RB = RB50#0



5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



5.1.1.2.2.2.2 Test RB = RB1#49

