



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	22.03	21.13	33	PASS
				RB1#13	22.25	21.35	33	PASS
				RB1#24	22.32	21.42	33	PASS
				RB12#0	21.31	20.41	33	PASS
				RB12#6	21.35	20.45	33	PASS
				RB12#13	21.21	20.31	33	PASS
				RB25#0	21.24	20.34	33	PASS
			MCH	RB1#0	22.08	21.18	33	PASS
				RB1#13	22.3	21.4	33	PASS
				RB1#24	22.33	21.43	33	PASS
				RB12#0	21.28	20.38	33	PASS
				RB12#6	21.3	20.4	33	PASS
				RB12#13	21.15	20.25	33	PASS
				RB25#0	21.25	20.35	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	21.76	20.86	33	PASS
				RB1#13	21.89	20.99	33	PASS
				RB1#24	22	21.1	33	PASS
				RB12#0	21.06	20.16	33	PASS
				RB12#6	21.11	20.21	33	PASS
				RB12#13	20.95	20.05	33	PASS
				RB25#0	21.1	20.2	33	PASS
		10	LCH	RB1#0	21.6	20.7	33	PASS
				RB1#25	22.39	21.49	33	PASS
				RB1#49	22.33	21.43	33	PASS
				RB25#0	20.96	20.06	33	PASS
				RB25#13	21.1	20.2	33	PASS
				RB25#25	21.4	20.5	33	PASS
				RB50#0	21.04	20.14	33	PASS
			MCH	RB1#0	21.59	20.69	33	PASS
				RB1#25	22.33	21.43	33	PASS
				RB1#49	22.38	21.48	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#0	20.9	20	33	PASS
				RB25#13	21.01	20.11	33	PASS
				RB25#25	21.3	20.4	33	PASS
				RB50#0	20.97	20.07	33	PASS
			HCH	RB1#0	21.28	20.38	33	PASS
				RB1#25	22.03	21.13	33	PASS
				RB1#49	22.04	21.14	33	PASS
				RB25#0	20.62	19.72	33	PASS
				RB25#13	20.63	19.73	33	PASS
				RB25#25	21.15	20.25	33	PASS
				RB50#0	20.82	19.92	33	PASS
		15	LCH	RB1#0	21.96	21.06	33	PASS
				RB1#38	22.31	21.41	33	PASS
				RB1#74	22.28	21.38	33	PASS
				RB36#0	21.12	20.22	33	PASS
				RB36#18	21.35	20.45	33	PASS
				RB36#39	21.07	20.17	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB75#0	21.18	20.28	33	PASS
			MCH	RB1#0	21.9	21	33	PASS
				RB1#38	22.09	21.19	33	PASS
				RB1#74	22.32	21.42	33	PASS
				RB36#0	20.97	20.07	33	PASS
				RB36#18	21.16	20.26	33	PASS
				RB36#39	21.02	20.12	33	PASS
				RB75#0	21.01	20.11	33	PASS
			HCH	RB1#0	21.75	20.85	33	PASS
				RB1#38	21.75	20.85	33	PASS
				RB1#74	21.99	21.09	33	PASS
				RB36#0	20.72	19.82	33	PASS
				RB36#18	20.78	19.88	33	PASS
				RB36#39	20.97	20.07	33	PASS
				RB75#0	20.91	20.01	33	PASS
		20	LCH	RB1#0	21.65	20.75	33	PASS
				RB1#50	21.85	20.95	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#99	22.02	21.12	33	PASS
				RB50#0	20.94	20.04	33	PASS
				RB50#25	20.82	19.92	33	PASS
				RB50#50	20.69	19.79	33	PASS
				RB100#0	20.99	20.09	33	PASS
			MCH	RB1#0	21.48	20.58	33	PASS
				RB1#50	21.8	20.9	33	PASS
				RB1#99	22.16	21.26	33	PASS
				RB50#0	20.91	20.01	33	PASS
				RB50#25	20.84	19.94	33	PASS
				RB50#50	20.7	19.8	33	PASS
				RB100#0	20.8	19.9	33	PASS
			HCH	RB1#0	21.64	20.74	33	PASS
				RB1#50	21.35	20.45	33	PASS
				RB1#99	21.89	20.99	33	PASS
				RB50#0	20.55	19.65	33	PASS
				RB50#25	20.46	19.56	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#50	20.62	19.72	33	PASS
				RB100#0	20.79	19.89	33	PASS
	LTE/TM2	5	LCH	RB1#0	21.16	20.26	33	PASS
				RB1#13	21.34	20.44	33	PASS
				RB1#24	21.51	20.61	33	PASS
				RB12#0	20.87	19.97	33	PASS
				RB12#6	20.91	20.01	33	PASS
				RB12#13	20.78	19.88	33	PASS
				RB25#0	20.82	19.92	33	PASS
			MCH	RB1#0	21.17	20.27	33	PASS
				RB1#13	21.38	20.48	33	PASS
				RB1#24	21.45	20.55	33	PASS
				RB12#0	20.77	19.87	33	PASS
				RB12#6	20.8	19.9	33	PASS
				RB12#13	20.67	19.77	33	PASS
				RB25#0	20.76	19.86	33	PASS
			HCH	RB1#0	20.93	20.03	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB1#13	21.21	20.31	33	PASS
				RB1#24	21.18	20.28	33	PASS
				RB12#0	20.56	19.66	33	PASS
				RB12#6	20.57	19.67	33	PASS
				RB12#13	20.52	19.62	33	PASS
				RB25#0	20.54	19.64	33	PASS
		10	LCH	RB1#0	20.81	19.91	33	PASS
				RB1#25	21.66	20.76	33	PASS
				RB1#49	21.67	20.77	33	PASS
				RB25#0	20.45	19.55	33	PASS
				RB25#13	20.59	19.69	33	PASS
				RB25#25	20.87	19.97	33	PASS
				RB50#0	20.51	19.61	33	PASS
			MCH	RB1#0	20.74	19.84	33	PASS
				RB1#25	21.51	20.61	33	PASS
				RB1#49	21.68	20.78	33	PASS
				RB25#0	20.4	19.5	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB25#13	20.53	19.63	33	PASS
				RB25#25	20.78	19.88	33	PASS
				RB50#0	20.52	19.62	33	PASS
			HCH	RB1#0	20.49	19.59	33	PASS
				RB1#25	21.11	20.21	33	PASS
				RB1#49	21.21	20.31	33	PASS
				RB25#0	20.11	19.21	33	PASS
				RB25#13	20.17	19.27	33	PASS
				RB25#25	20.61	19.71	33	PASS
				RB50#0	20.33	19.43	33	PASS
		15	LCH	RB1#0	21.25	20.35	33	PASS
				RB1#38	21.53	20.63	33	PASS
				RB1#74	21.54	20.64	33	PASS
				RB36#0	20.65	19.75	33	PASS
				RB36#18	20.83	19.93	33	PASS
				RB36#39	20.59	19.69	33	PASS
				RB75#0	20.63	19.73	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
			MCH	RB1#0	21.22	20.32	33	PASS
				RB1#38	21.47	20.57	33	PASS
				RB1#74	21.64	20.74	33	PASS
				RB36#0	20.47	19.57	33	PASS
				RB36#18	20.58	19.68	33	PASS
				RB36#39	20.47	19.57	33	PASS
				RB75#0	20.49	19.59	33	PASS
			HCH	RB1#0	21.08	20.18	33	PASS
				RB1#38	20.99	20.09	33	PASS
				RB1#74	21.31	20.41	33	PASS
				RB36#0	20.24	19.34	33	PASS
				RB36#18	20.25	19.35	33	PASS
				RB36#39	20.43	19.53	33	PASS
				RB75#0	20.4	19.5	33	PASS
		20	LCH	RB1#0	21.19	20.29	33	PASS
				RB1#50	21.56	20.66	33	PASS
				RB1#99	21.59	20.69	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.47	19.57	33	PASS
				RB50#25	20.39	19.49	33	PASS
				RB50#50	20.27	19.37	33	PASS
				RB100#0	20.53	19.63	33	PASS
			MCH	RB1#0	20.93	20.03	33	PASS
				RB1#50	21.25	20.35	33	PASS
				RB1#99	21.62	20.72	33	PASS
				RB50#0	20.37	19.47	33	PASS
				RB50#25	20.37	19.47	33	PASS
				RB50#50	20.23	19.33	33	PASS
				RB100#0	20.24	19.34	33	PASS
			HCH	RB1#0	21.08	20.18	33	PASS
				RB1#50	20.69	19.79	33	PASS
				RB1#99	21.25	20.35	33	PASS
				RB50#0	20.13	19.23	33	PASS
				RB50#25	19.99	19.09	33	PASS
				RB50#50	20.09	19.19	33	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP [dBm]	Limit [dBm]	Verdict
				RB100#0	20.28	19.38	33	PASS

Note1:

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

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

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

b, SGP=Signal Generator Level

Note2:

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

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

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

SET Sweep time=auto-couple.

Detector:RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND7	LTE/TM1	5	LCH	RB1#0	3.69	13	PASS
				RB1#13	3.54	13	PASS
				RB1#24	3.41	13	PASS
				RB12#0	4.68	13	PASS
				RB12#6	4.57	13	PASS
				RB12#13	4.8	13	PASS
				RB25#0	5.17	13	PASS
			MCH	RB1#0	4.25	13	PASS
				RB1#13	4.17	13	PASS
				RB1#24	4.01	13	PASS
				RB12#0	5.16	13	PASS
				RB12#6	5.27	13	PASS
				RB12#13	5.25	13	PASS
				RB25#0	5.55	13	PASS
			HCH	RB1#0	3.89	13	PASS
				RB1#13	3.71	13	PASS
				RB1#24	3.57	13	PASS
				RB12#0	5.04	13	PASS
				RB12#6	4.91	13	PASS
				RB12#13	4.99	13	PASS
				RB25#0	5.57	13	PASS
		10	LCH	RB1#0	3.85	13	PASS
				RB1#25	3.36	13	PASS
				RB1#49	3.36	13	PASS
				RB25#0	4.97	13	PASS
				RB25#13	4.81	13	PASS
				RB25#25	4.81	13	PASS
				RB50#0	5.69	13	PASS
			MCH	RB1#0	4.59	13	PASS
				RB1#25	4.05	13	PASS
				RB1#49	4.11	13	PASS
				RB25#0	5.55	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#13	5.52	13	PASS
				RB25#25	5.48	13	PASS
				RB50#0	6	13	PASS
			HCH	RB1#0	4.2	13	PASS
				RB1#25	3.69	13	PASS
				RB1#49	3.66	13	PASS
				RB25#0	5.38	13	PASS
				RB25#13	5.25	13	PASS
				RB25#25	4.99	13	PASS
				RB50#0	5.61	13	PASS
		15	LCH	RB1#0	3.68	13	PASS
				RB1#38	3.55	13	PASS
				RB1#74	3.55	13	PASS
				RB36#0	5.01	13	PASS
				RB36#18	4.78	13	PASS
				RB36#39	5	13	PASS
				RB75#0	5.66	13	PASS
			MCH	RB1#0	4.16	13	PASS
				RB1#38	4.16	13	PASS
				RB1#74	4.06	13	PASS
				RB36#0	5.54	13	PASS
				RB36#18	5.53	13	PASS
				RB36#39	5.45	13	PASS
				RB75#0	6.05	13	PASS
			HCH	RB1#0	4.18	13	PASS
				RB1#38	4.13	13	PASS
				RB1#74	3.89	13	PASS
				RB36#0	5.46	13	PASS
				RB36#18	5.37	13	PASS
				RB36#39	5.28	13	PASS
				RB75#0	5.7	13	PASS
		20	LCH	RB1#0	3.97	13	PASS
				RB1#50	3.8	13	PASS
				RB1#99	3.8	13	PASS
				RB50#0	5.1	13	PASS
				RB50#25	5.07	13	PASS
				RB50#50	5.13	13	PASS
				RB100#0	5.6	13	PASS
			MCH	RB1#0	4.41	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#50	4.48	13	PASS
				RB1#99	4.13	13	PASS
				RB50#0	5.62	13	PASS
				RB50#25	5.72	13	PASS
				RB50#50	5.72	13	PASS
				RB100#0	6.14	13	PASS
			HCH	RB1#0	4.27	13	PASS
				RB1#50	4.24	13	PASS
				RB1#99	3.97	13	PASS
				RB50#0	5.44	13	PASS
				RB50#25	5.43	13	PASS
				RB50#50	5.35	13	PASS
				RB100#0	5.76	13	PASS
	LTE/TM2	5	LCH	RB1#0	4.7	13	PASS
				RB1#13	4.78	13	PASS
				RB1#24	4.62	13	PASS
				RB12#0	5.23	13	PASS
				RB12#6	5.06	13	PASS
				RB12#13	5.39	13	PASS
				RB25#0	5.85	13	PASS
			MCH	RB1#0	5.06	13	PASS
				RB1#13	5.14	13	PASS
				RB1#24	5.36	13	PASS
				RB12#0	5.81	13	PASS
				RB12#6	5.82	13	PASS
				RB12#13	5.86	13	PASS
				RB25#0	6.33	13	PASS
		10	HCH	RB1#0	4.67	13	PASS
				RB1#13	4.7	13	PASS
				RB1#24	4.46	13	PASS
				RB12#0	5.45	13	PASS
				RB12#6	5.33	13	PASS
				RB12#13	5.5	13	PASS
				RB25#0	6.03	13	PASS
			LCH	RB1#0	4.87	13	PASS
				RB1#25	4.3	13	PASS
				RB1#49	4.18	13	PASS
				RB25#0	5.48	13	PASS
				RB25#13	5.34	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#25	5.37	13	PASS
				RB50#0	5.95	13	PASS
			MCH	RB1#0	5.38	13	PASS
				RB1#25	4.91	13	PASS
				RB1#49	5.01	13	PASS
				RB25#0	6.16	13	PASS
				RB25#13	6.1	13	PASS
				RB25#25	5.88	13	PASS
				RB50#0	6.65	13	PASS
			HCH	RB1#0	5.35	13	PASS
				RB1#25	4.75	13	PASS
				RB1#49	4.9	13	PASS
				RB25#0	5.83	13	PASS
				RB25#13	5.82	13	PASS
				RB25#25	5.43	13	PASS
				RB50#0	6.16	13	PASS
		15	LCH	RB1#0	4.76	13	PASS
				RB1#38	4.44	13	PASS
				RB1#74	4.37	13	PASS
				RB36#0	5.44	13	PASS
				RB36#18	5.25	13	PASS
				RB36#39	5.53	13	PASS
				RB75#0	6.26	13	PASS
			MCH	RB1#0	5.2	13	PASS
				RB1#38	5.16	13	PASS
				RB1#74	4.98	13	PASS
				RB36#0	6.14	13	PASS
				RB36#18	6.1	13	PASS
				RB36#39	6.21	13	PASS
				RB75#0	6.67	13	PASS
			HCH	RB1#0	5.25	13	PASS
				RB1#38	5.05	13	PASS
				RB1#74	4.8	13	PASS
				RB36#0	5.93	13	PASS
				RB36#18	5.82	13	PASS
				RB36#39	5.8	13	PASS
				RB75#0	6.41	13	PASS
		20	LCH	RB1#0	4.88	13	PASS
				RB1#50	4.5	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#99	4.61	13	PASS
				RB50#0	5.84	13	PASS
				RB50#25	5.71	13	PASS
				RB50#50	5.84	13	PASS
				RB100#0	6.2	13	PASS
			MCH	RB1#0	5.12	13	PASS
				RB1#50	5.09	13	PASS
				RB1#99	5.04	13	PASS
				RB50#0	6.19	13	PASS
				RB50#25	6.17	13	PASS
				RB50#50	6.38	13	PASS
				RB100#0	6.62	13	PASS
			HCH	RB1#0	4.97	13	PASS
				RB1#50	5.25	13	PASS
				RB1#99	4.53	13	PASS
				RB50#0	5.96	13	PASS
				RB50#25	6.05	13	PASS
				RB50#50	6.05	13	PASS
				RB100#0	6.44	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

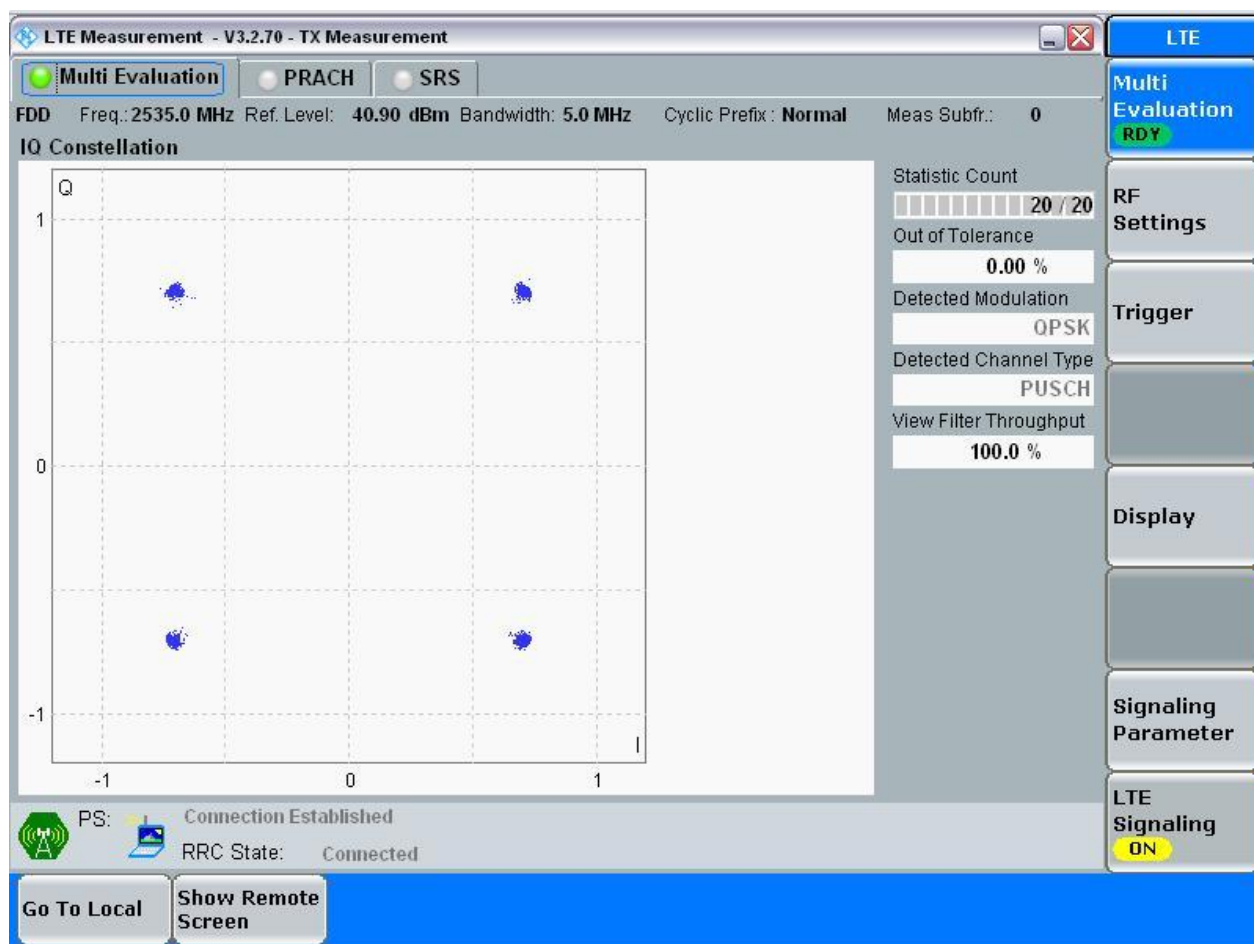
3.1.1 Test Band = BAND7

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

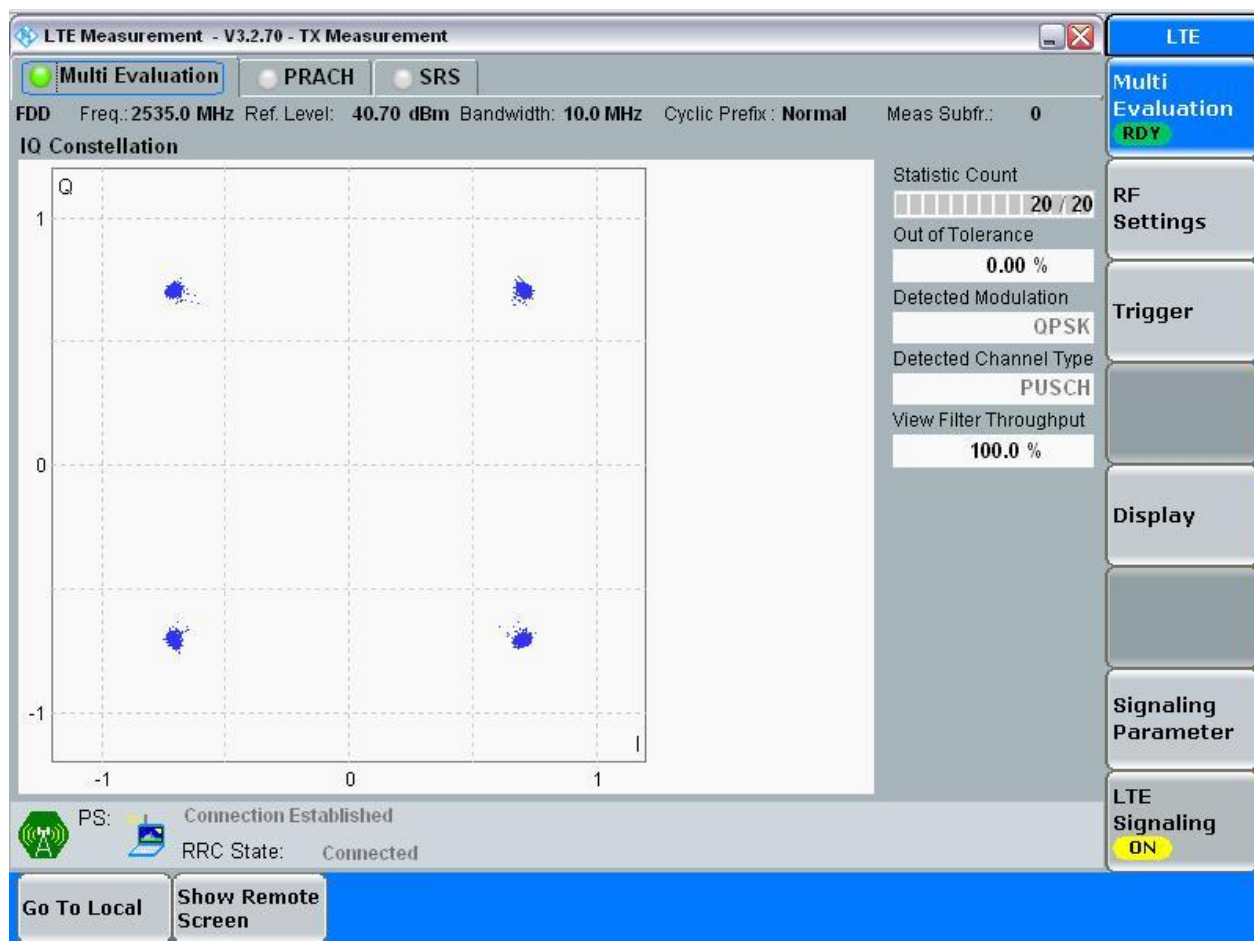
3.1.1.1.1.1.1 Test RB = RB25#0



3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

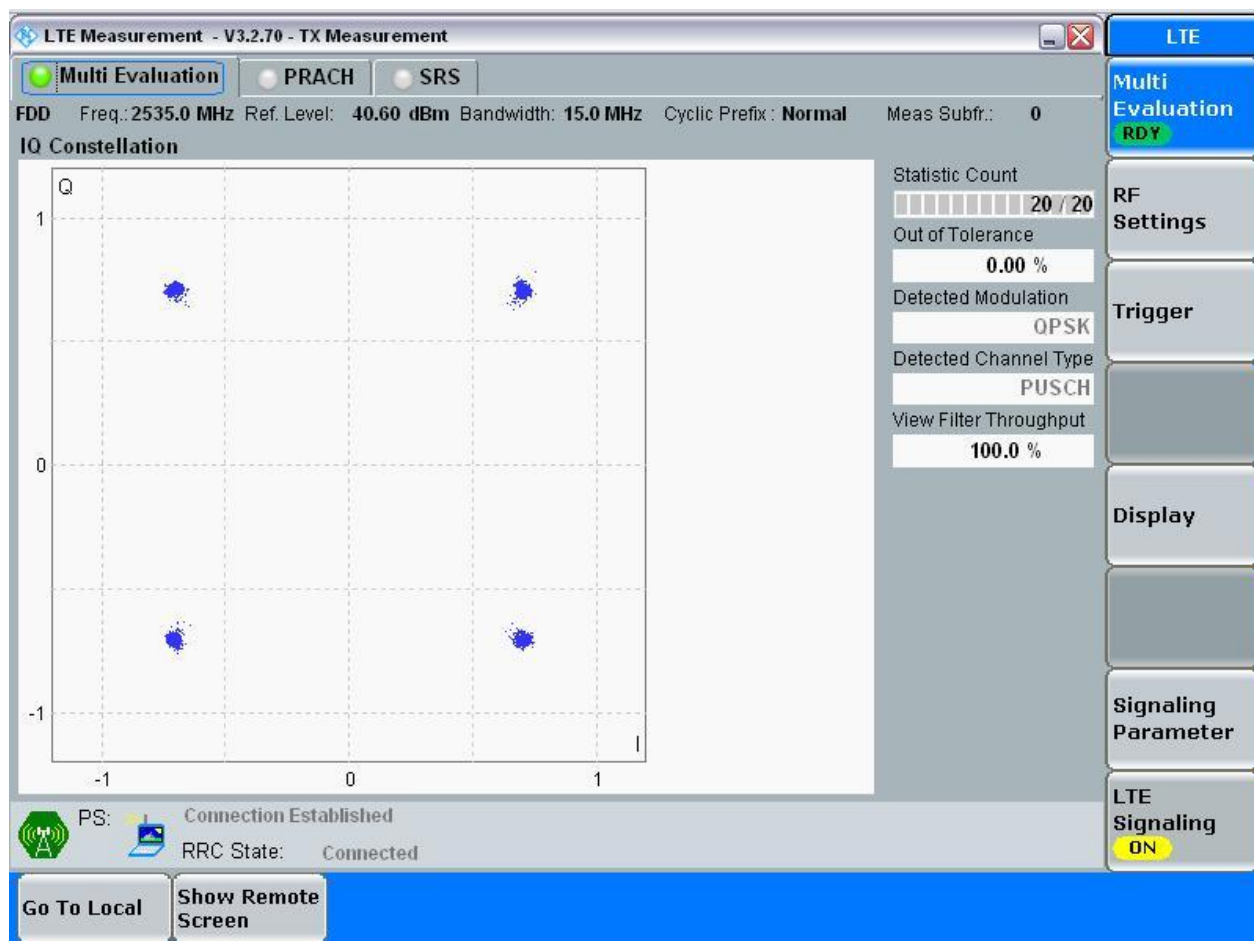
3.1.1.1.2.1.1 Test RB = RB50#0



3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

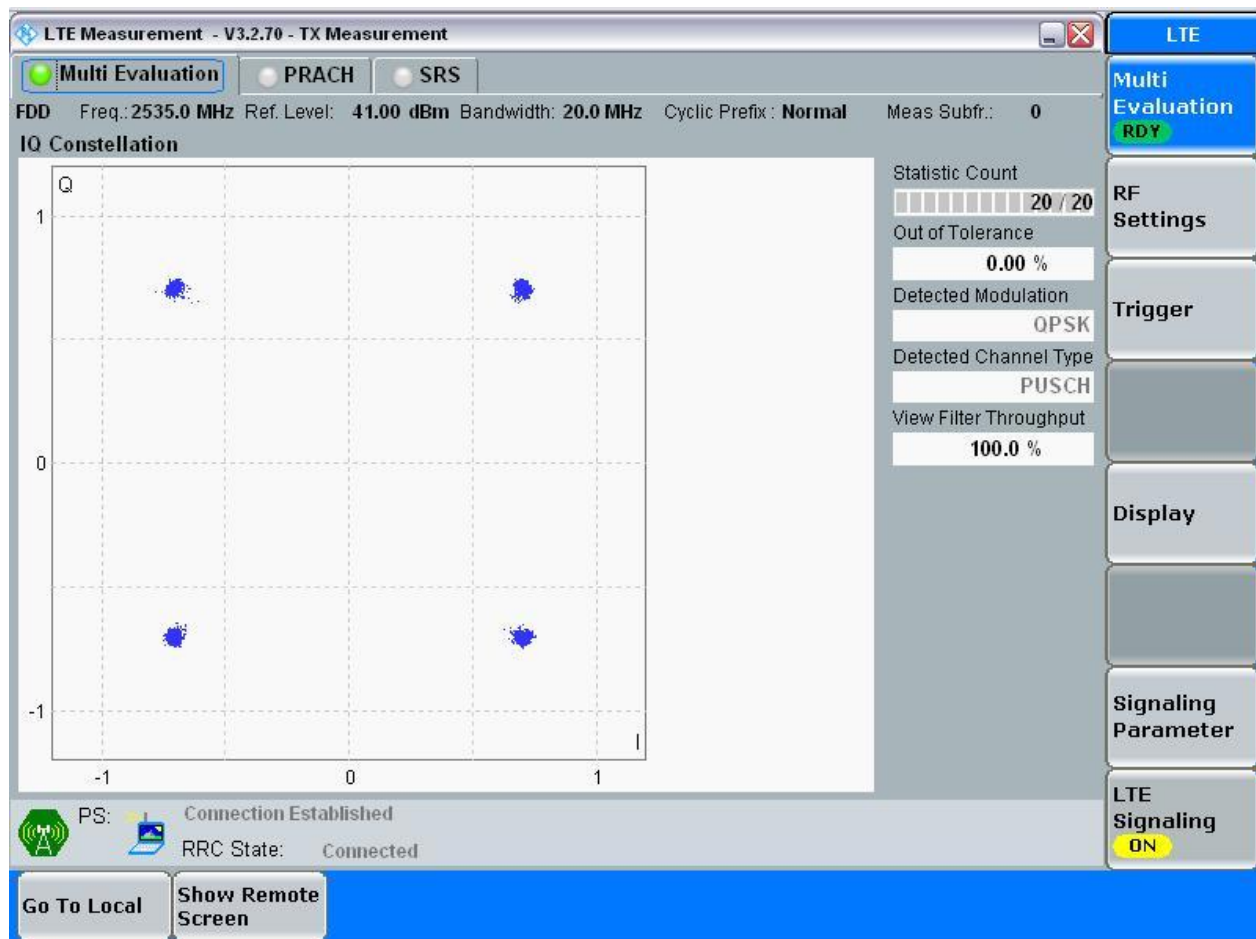
3.1.1.1.3.1.1 Test RB = RB75#0



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

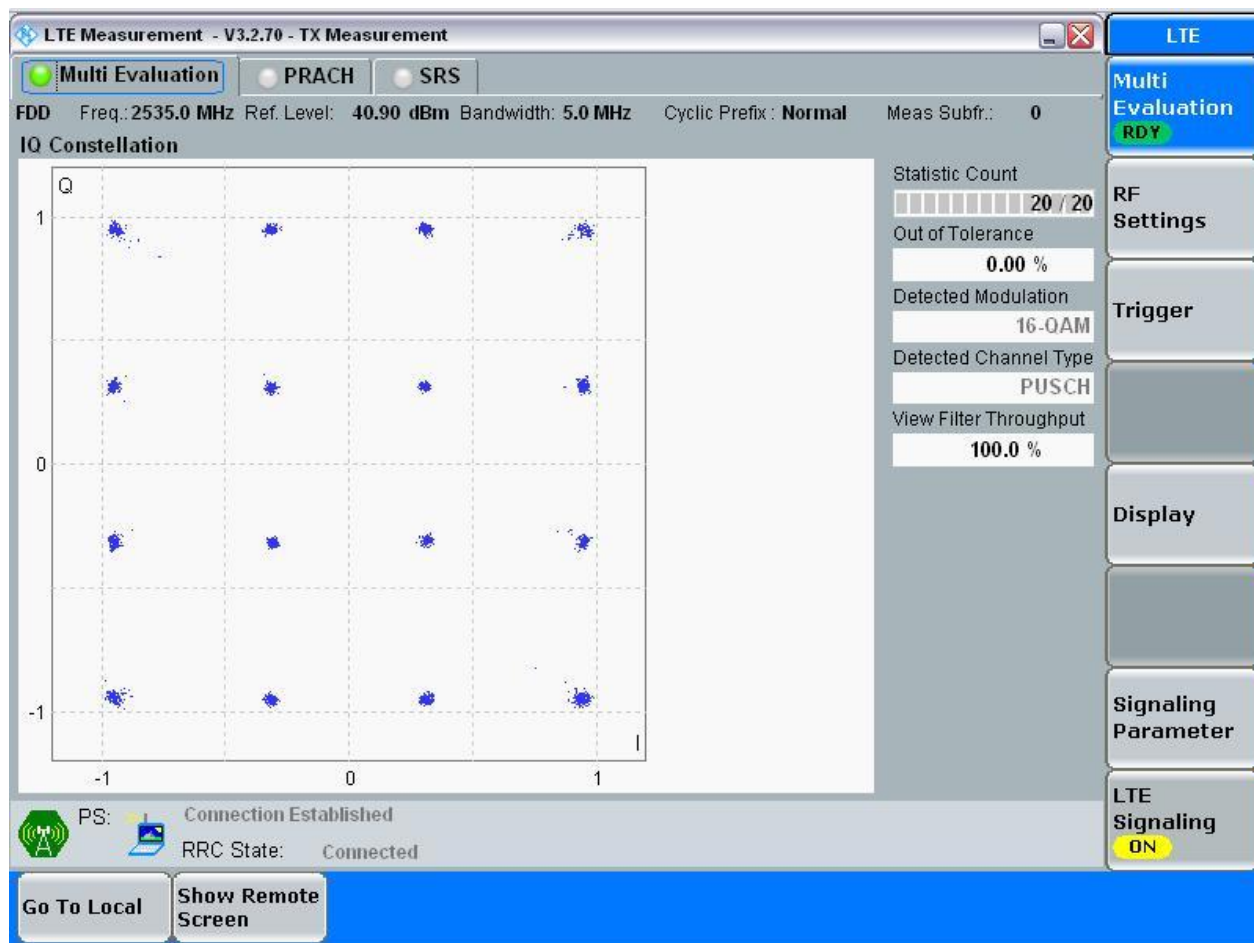


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

3.1.1.2.1.1 Test Channel = MCH

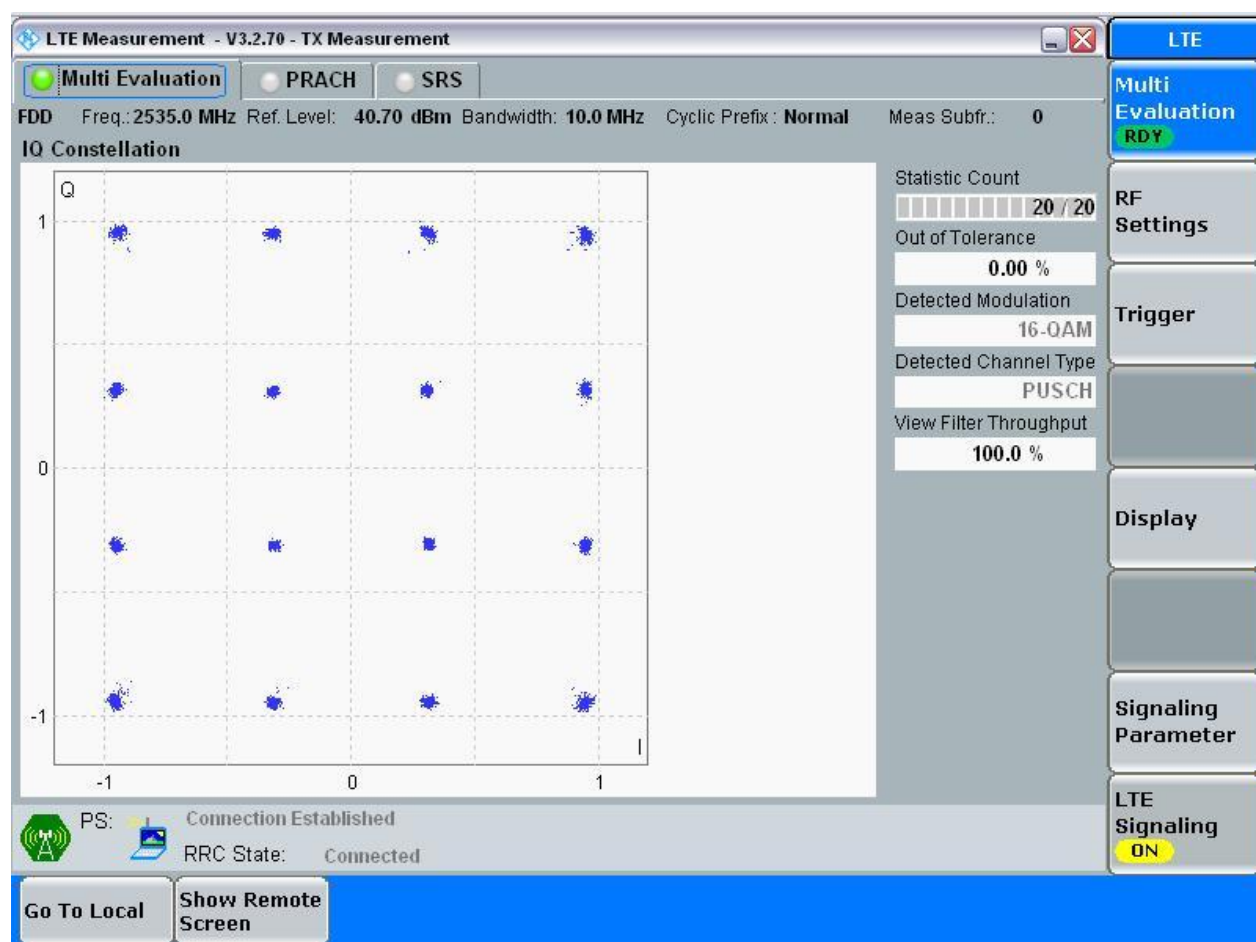
3.1.1.2.1.1.1 Test RB = RB25#0



3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

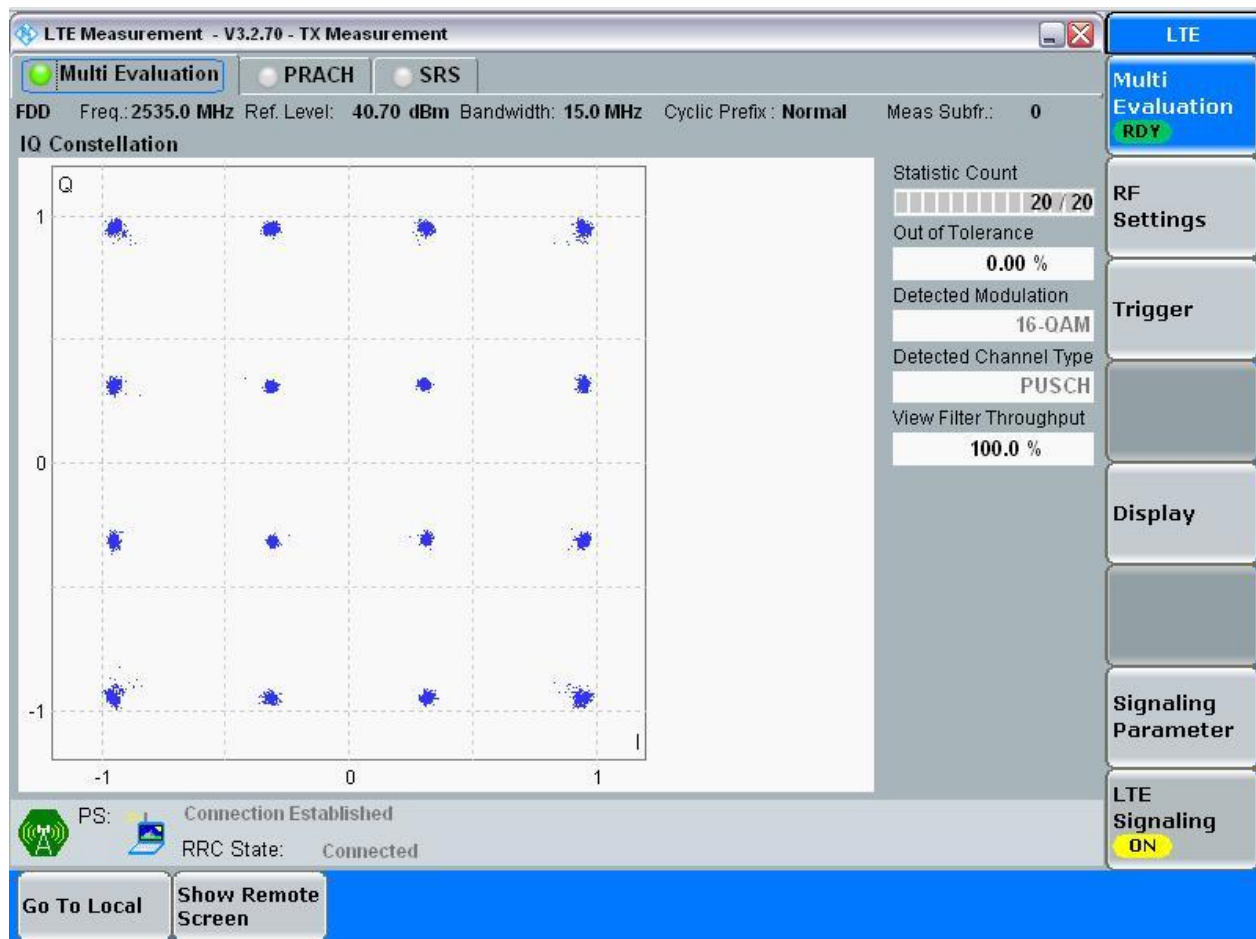
3.1.1.2.2.1.1 Test RB = RB50#0



3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

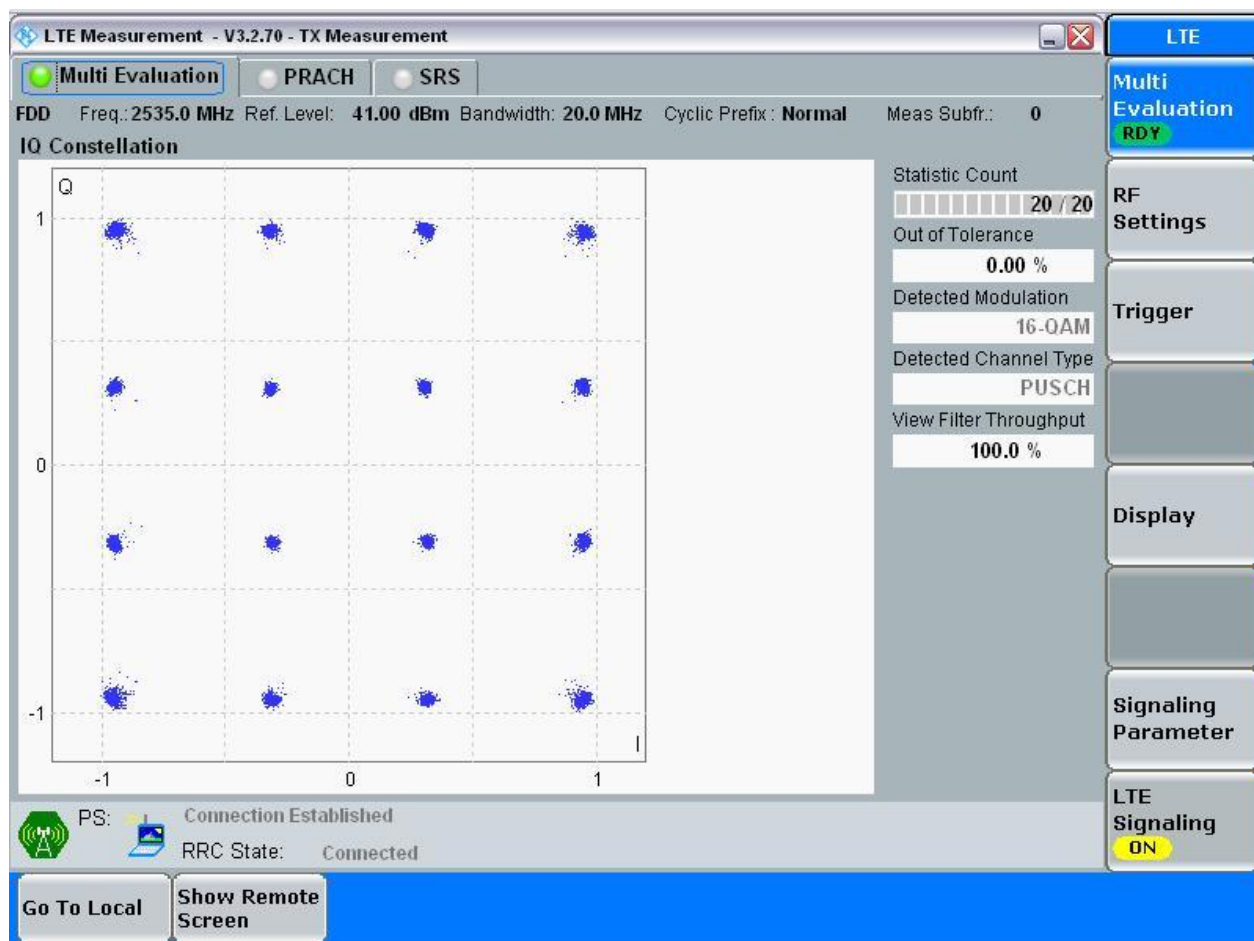
3.1.1.2.3.1.1 Test RB = RB75#0



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	4.53	4.96	Pass
			HCH	RB25#0	4.51	4.96	Pass
		10	LCH	RB50#0	9.00	9.98	Pass
			MCH	RB50#0	9.00	9.90	Pass
			HCH	RB50#0	9.01	9.92	Pass
		15	LCH	RB75#0	13.47	15.04	Pass
			MCH	RB75#0	13.51	15.07	Pass
			HCH	RB75#0	13.53	14.99	Pass
		20	LCH	RB100#0	18.00	19.82	Pass
			MCH	RB100#0	18.01	19.90	Pass
			HCH	RB100#0	17.96	19.75	Pass
	LTE/TM2	5	LCH	RB25#0	4.53	4.99	Pass
			MCH	RB25#0	4.53	5.01	Pass
			HCH	RB25#0	4.53	4.98	Pass
		10	LCH	RB50#0	9.03	9.99	Pass
			MCH	RB50#0	9.01	9.93	Pass
			HCH	RB50#0	8.99	9.93	Pass
		15	LCH	RB75#0	13.48	15.01	Pass
			MCH	RB75#0	13.49	14.99	Pass
			HCH	RB75#0	13.49	15.01	Pass
		20	LCH	RB100#0	18.05	19.84	Pass
			MCH	RB100#0	18.00	19.87	Pass
			HCH	RB100#0	17.94	19.78	Pass



Part II - Test Plots

4.1 For LTE

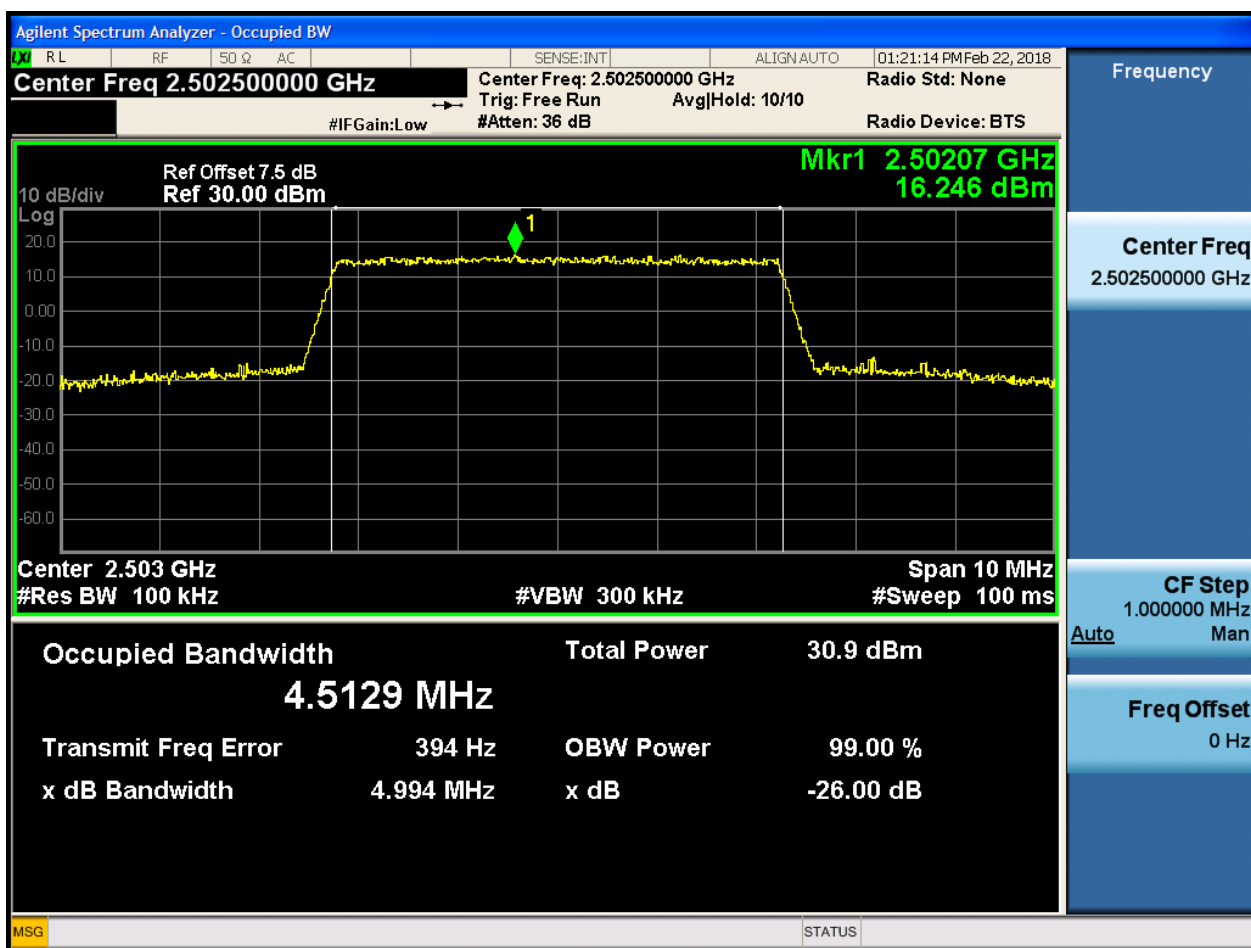
4.1.1 Test Band = BAND7

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

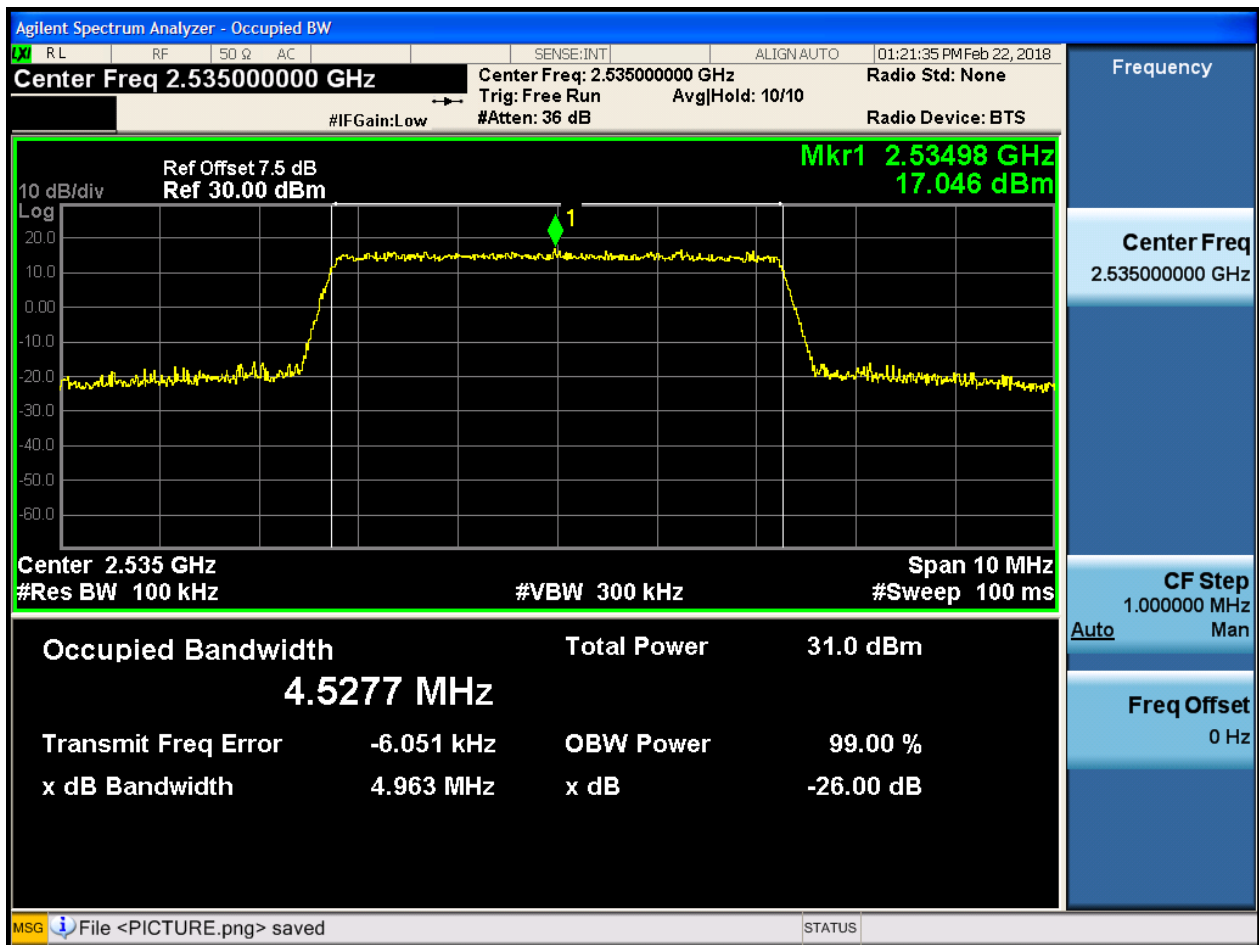
4.1.1.1.1.1.1 Test RB = RB25#0





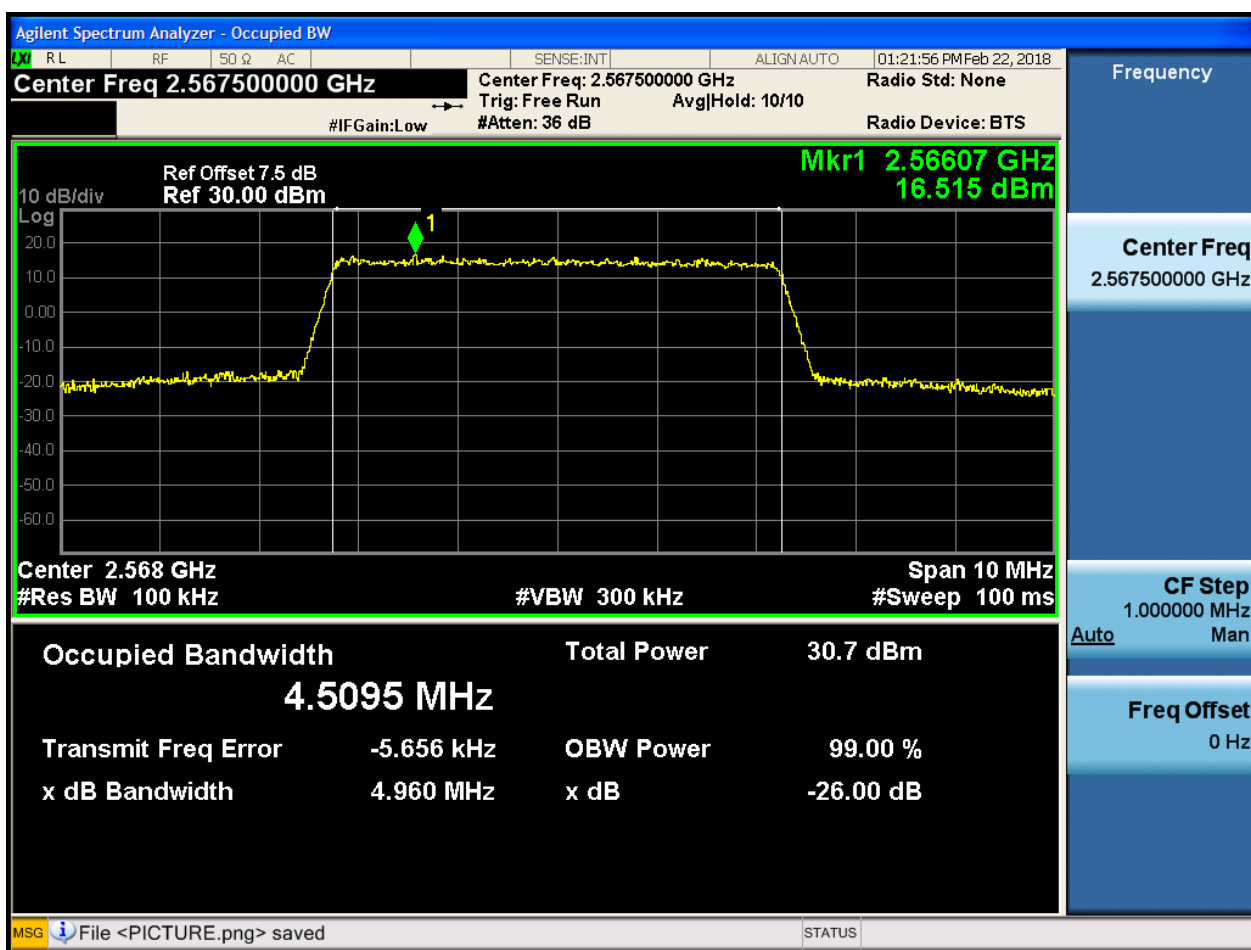
4.1.1.1.1.2 Test Channel = MCH

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

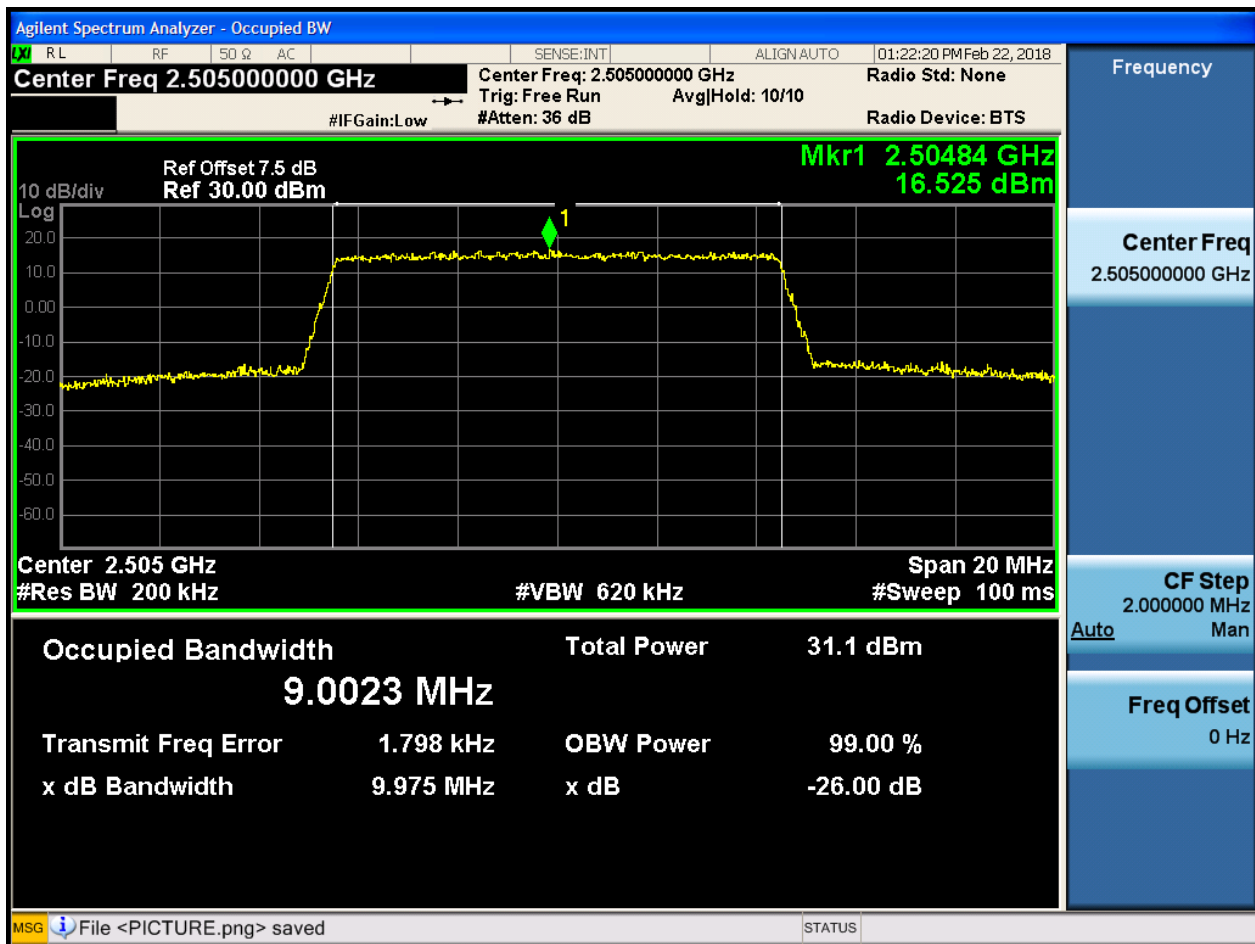




4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

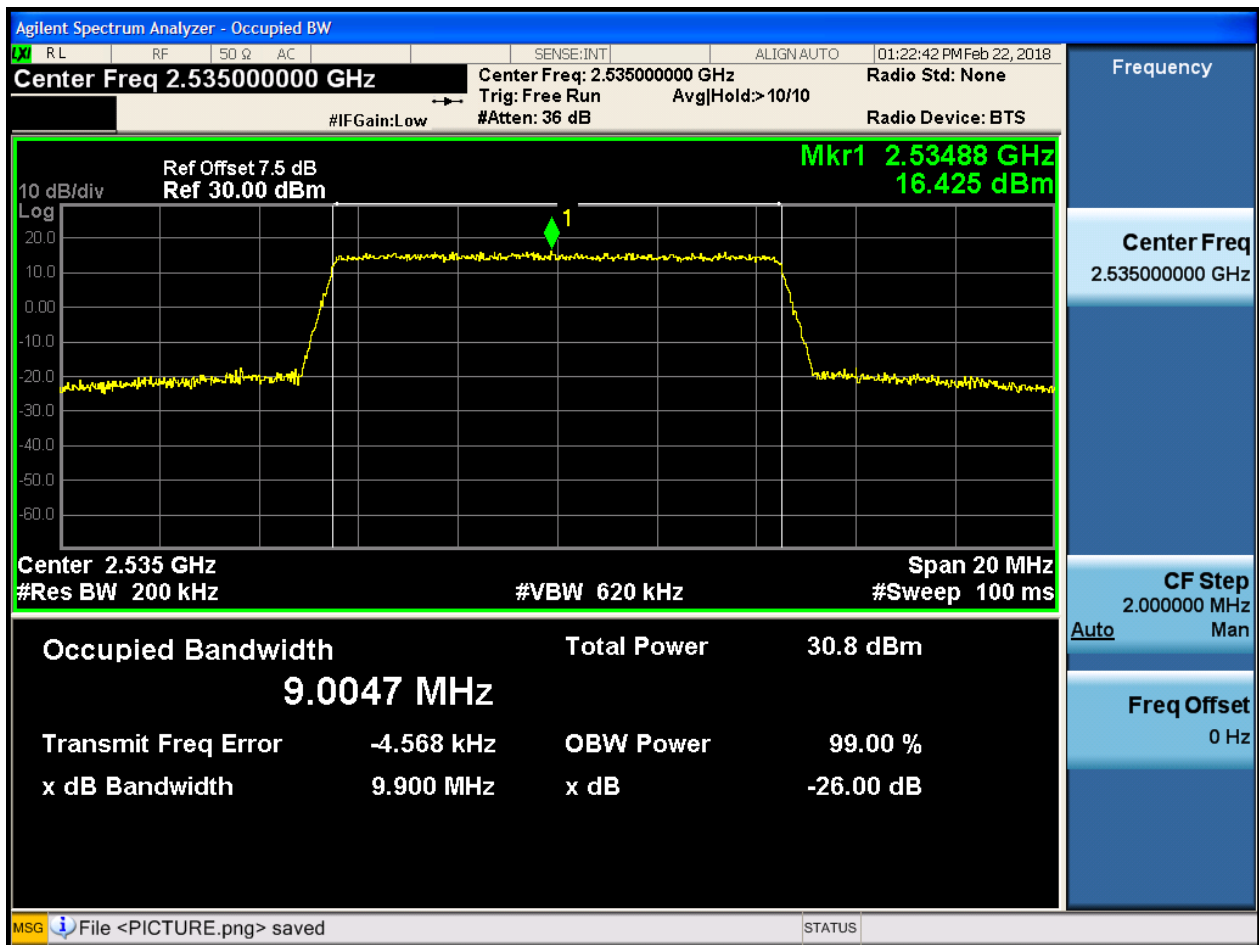
4.1.1.1.2.1.1 Test RB = RB50#0





4.1.1.1.2.2 Test Channel = MCH

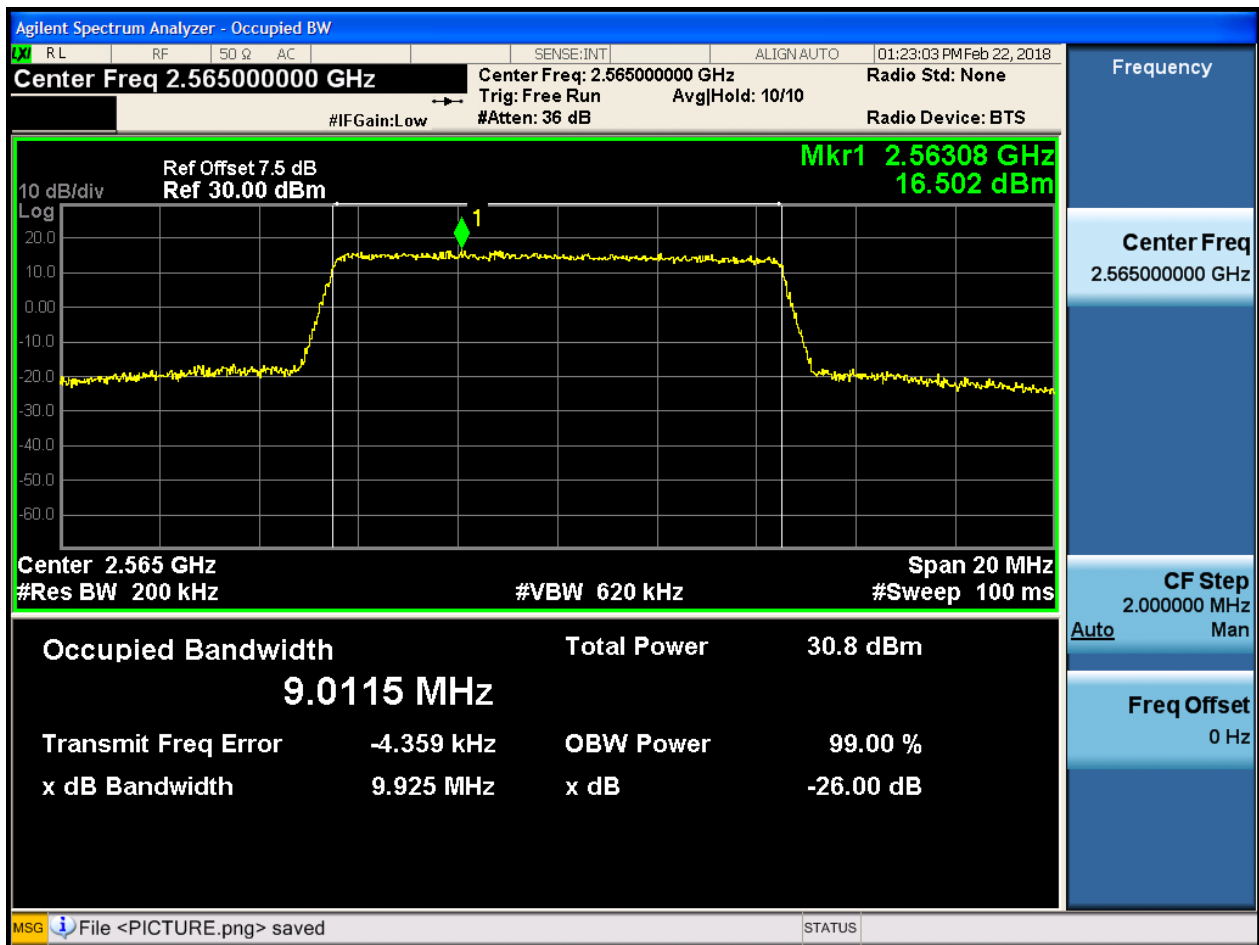
4.1.1.1.2.2.1 Test RB = RB50#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0

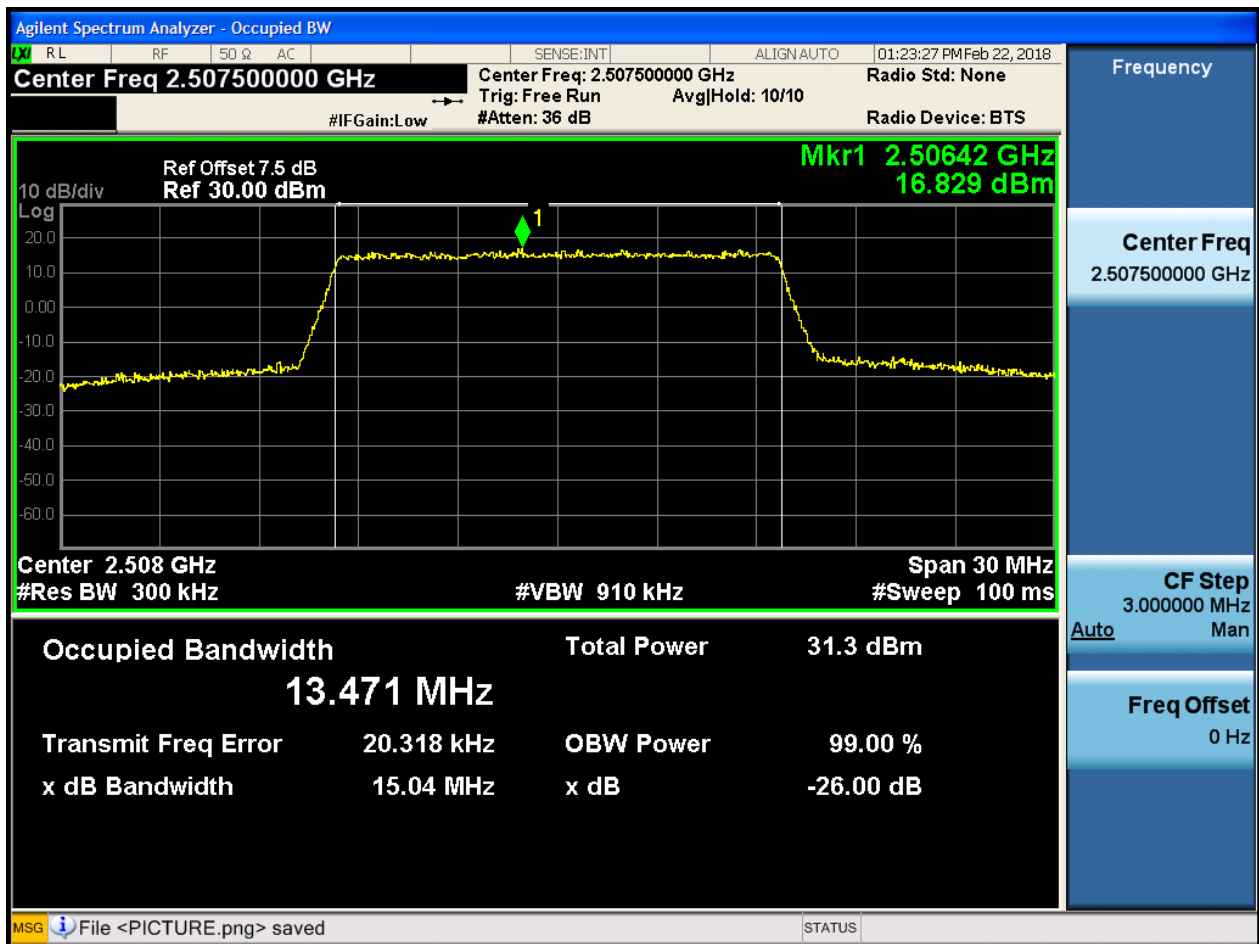




4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

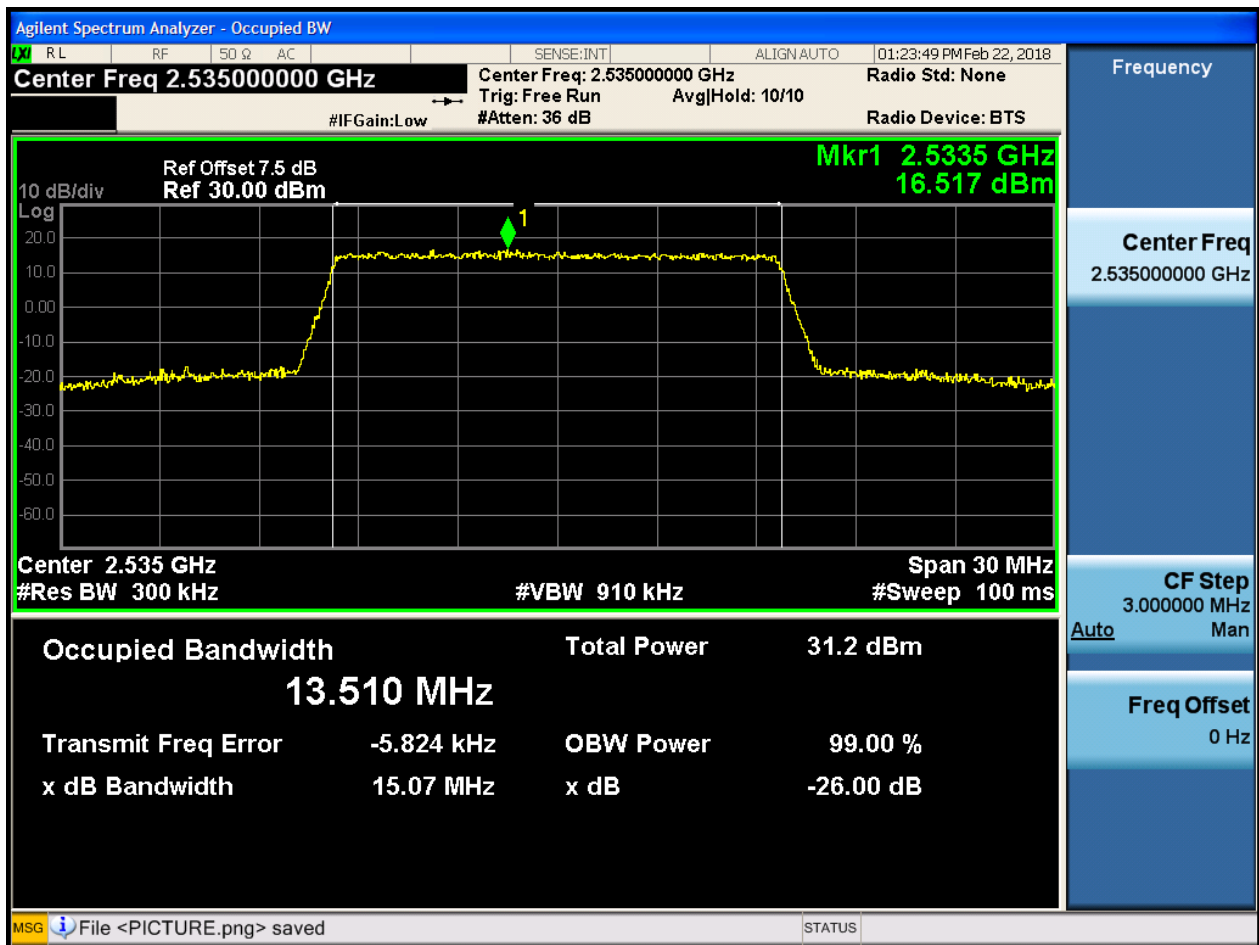
4.1.1.1.3.1.1 Test RB = RB75#0





4.1.1.1.3.2 Test Channel = MCH

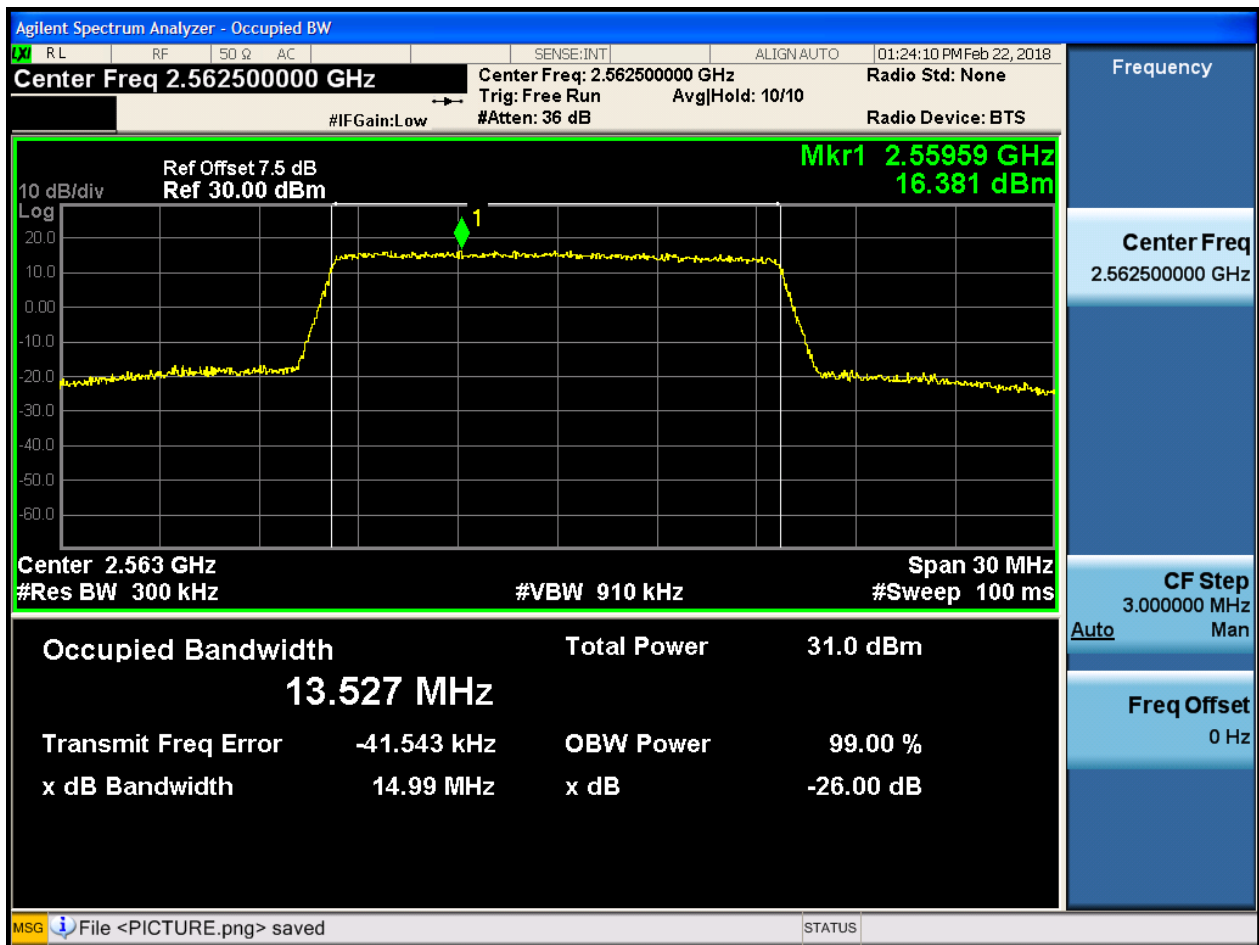
4.1.1.1.3.2.1 Test RB = RB75#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0

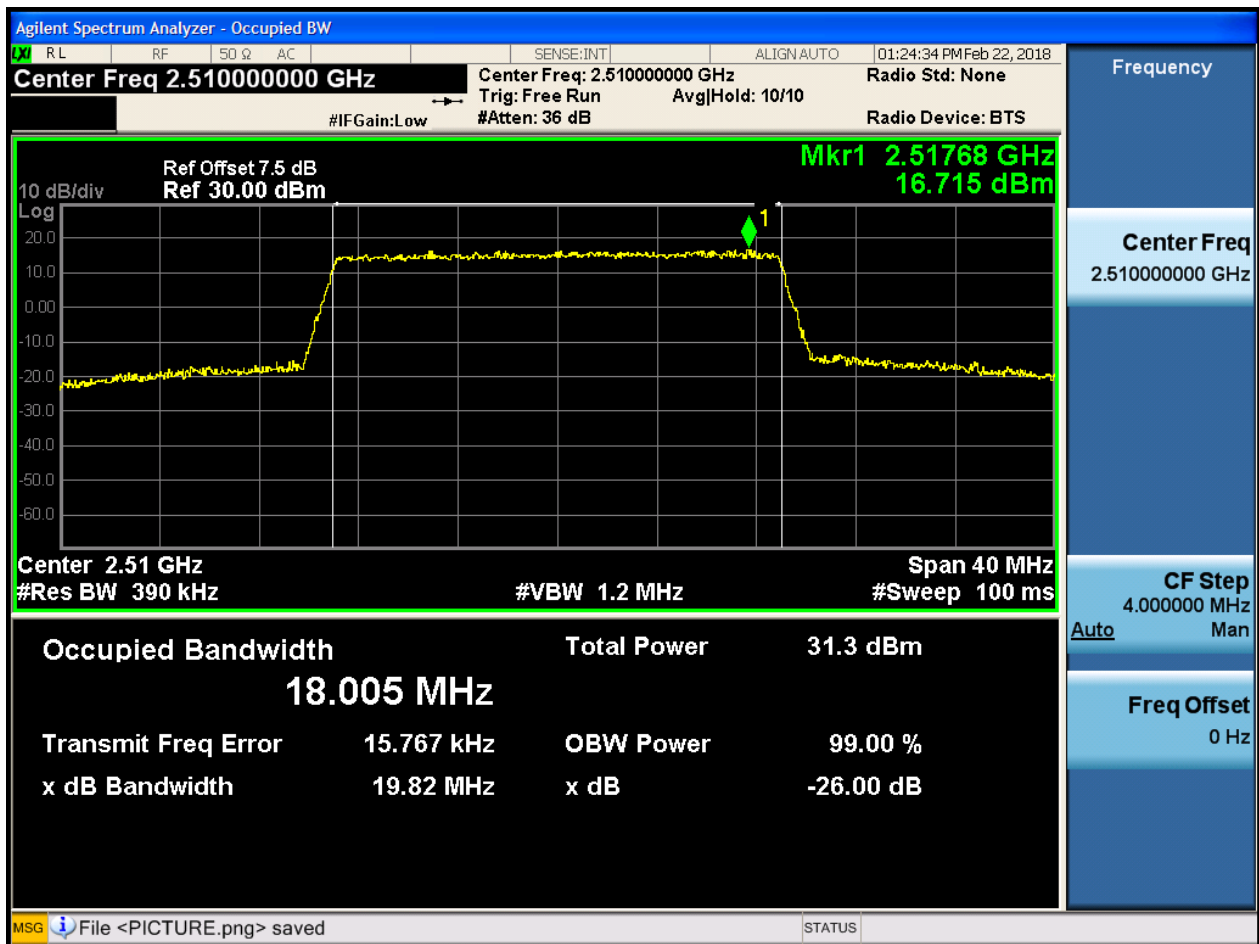




4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

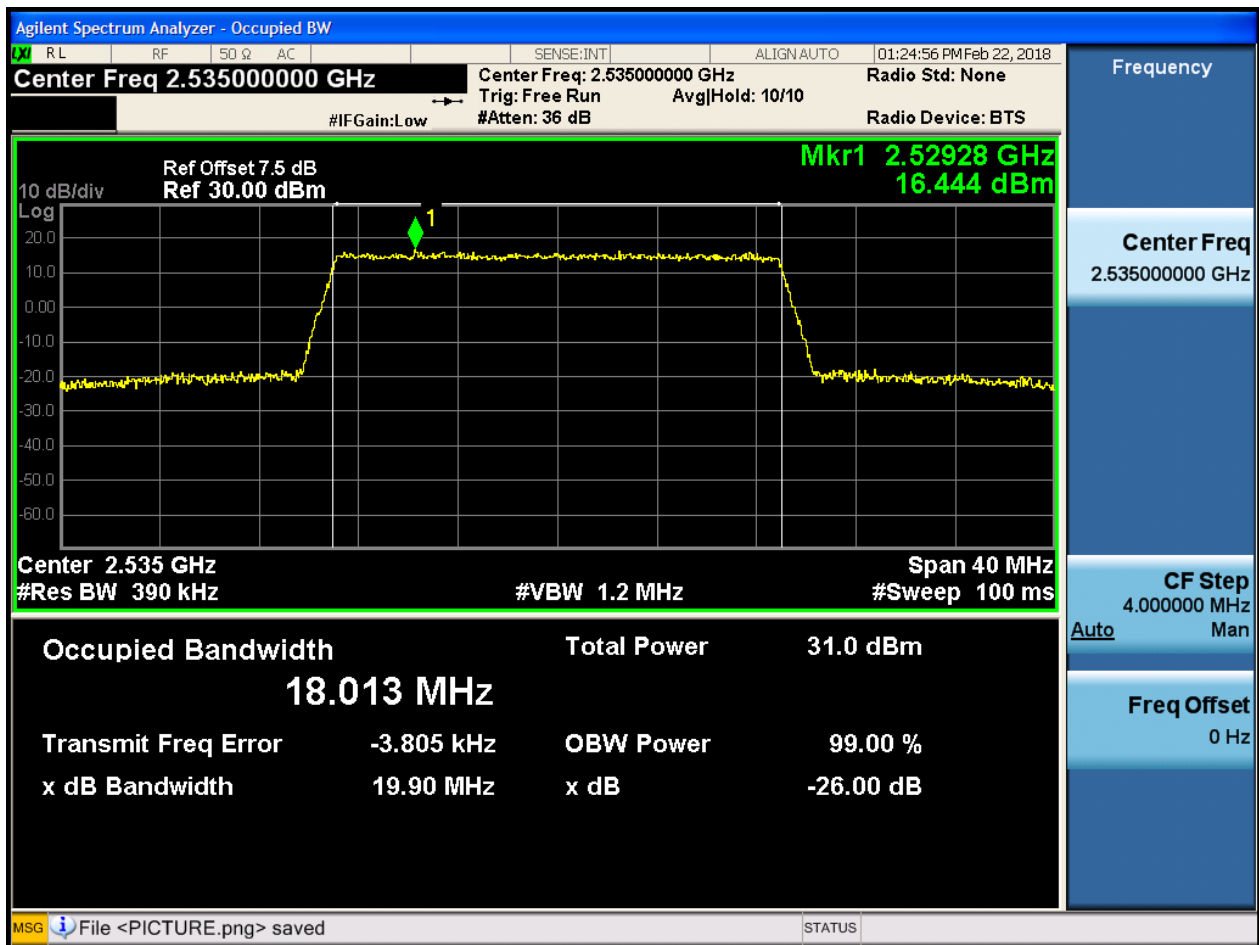
4.1.1.1.4.1.1 Test RB = RB100#0





4.1.1.1.4.2 Test Channel = MCH

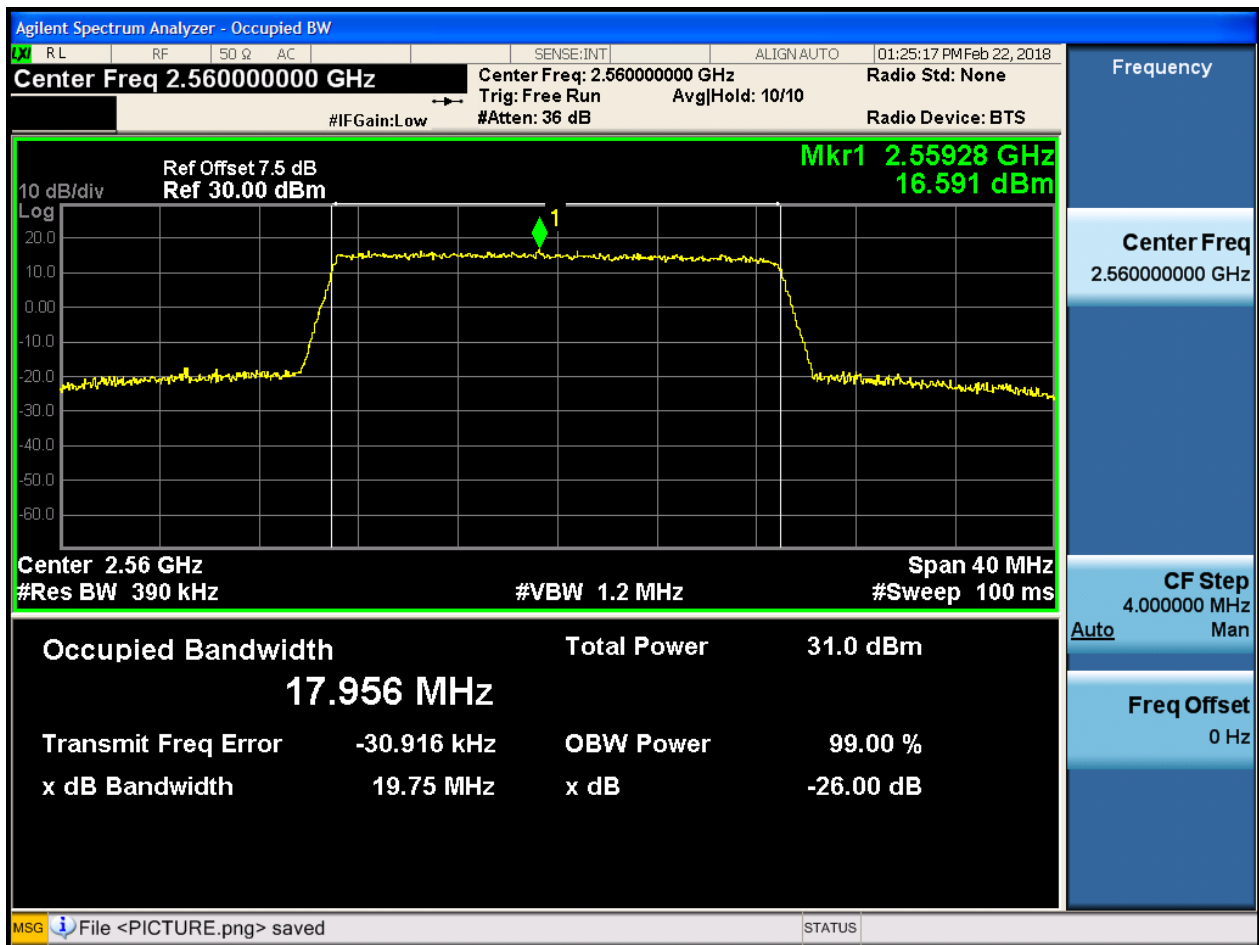
4.1.1.1.4.2.1 Test RB = RB100#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0



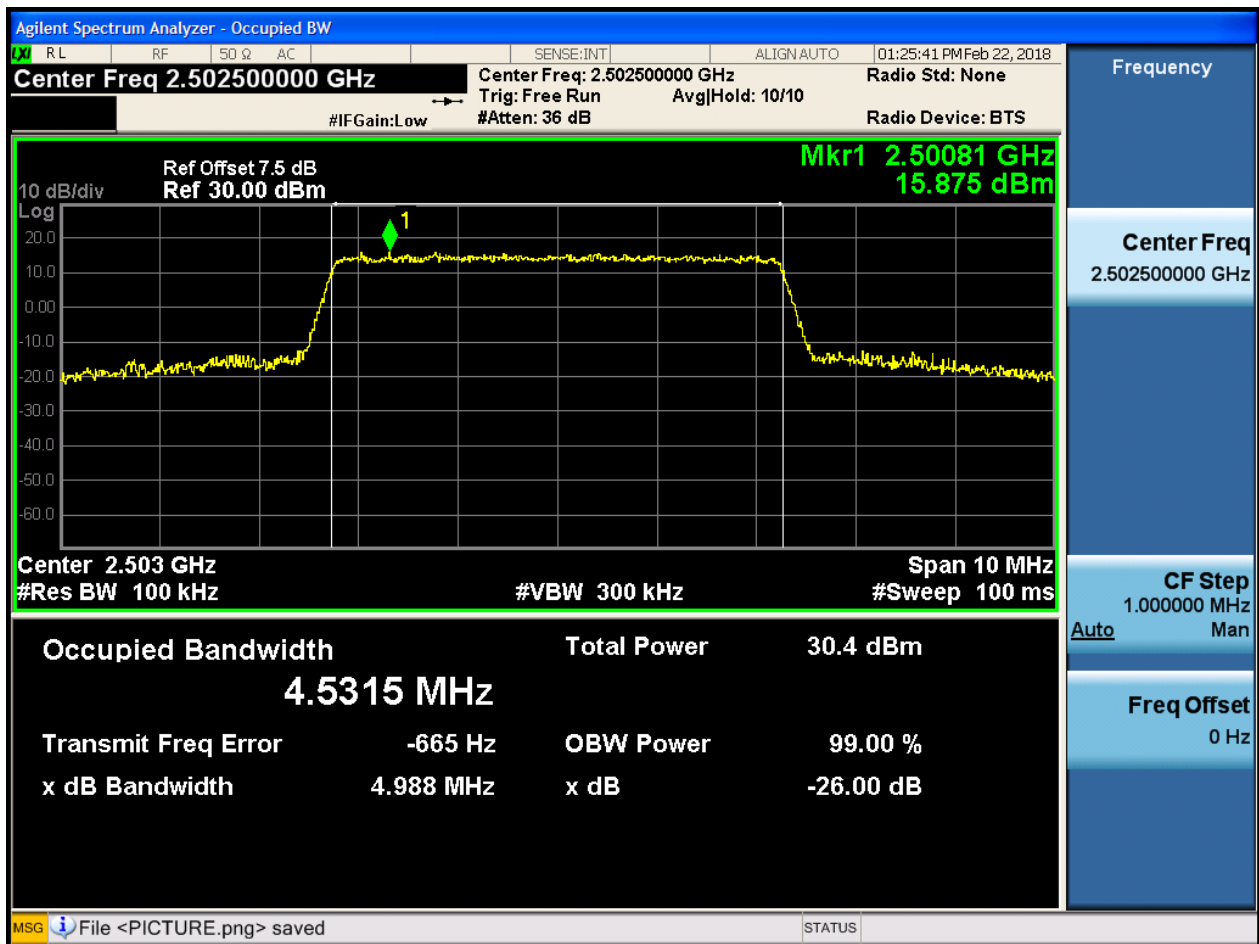


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

4.1.1.2.1.1 Test Channel = LCH

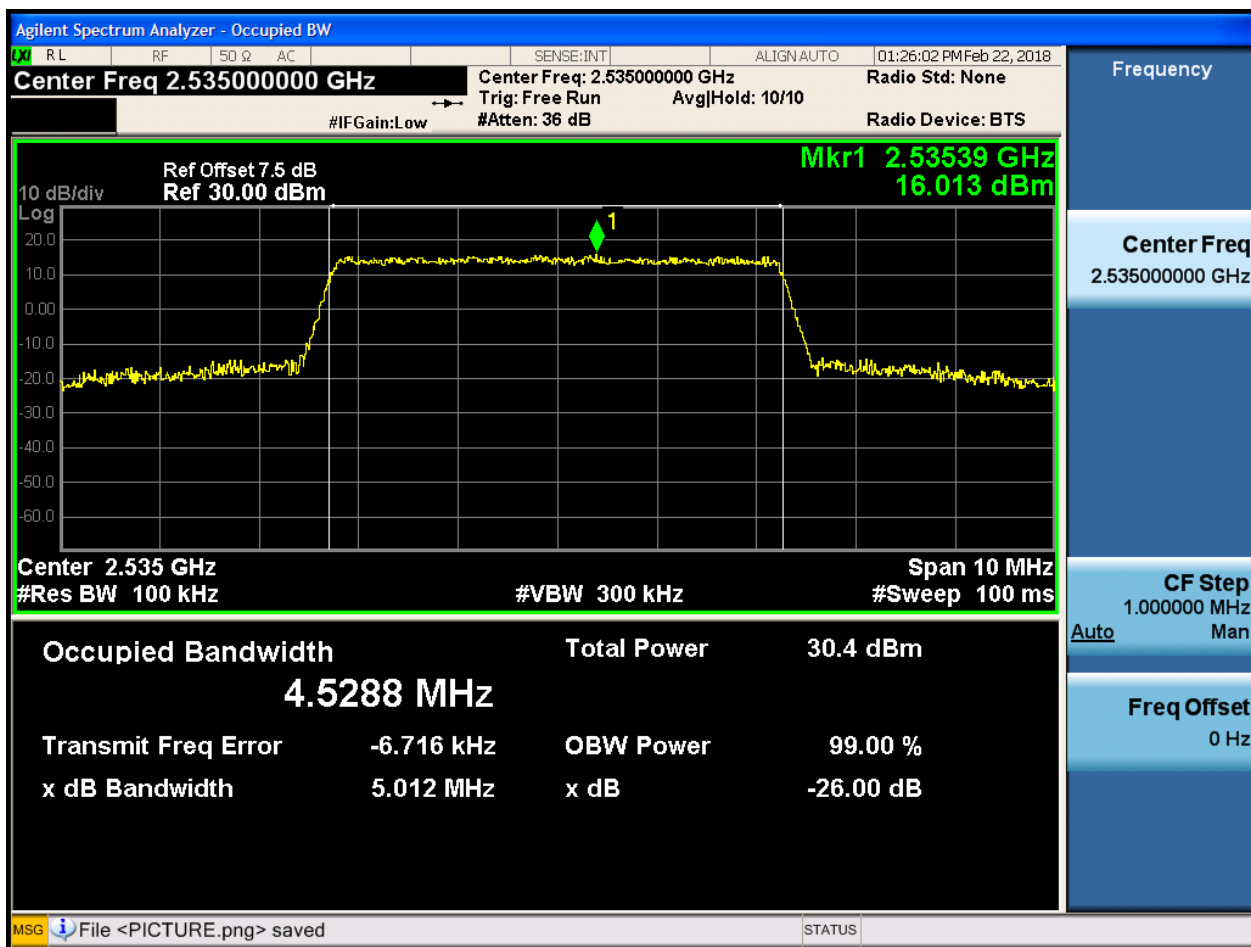
4.1.1.2.1.1.1 Test RB = RB25#0





4.1.1.2.1.2 Test Channel = MCH

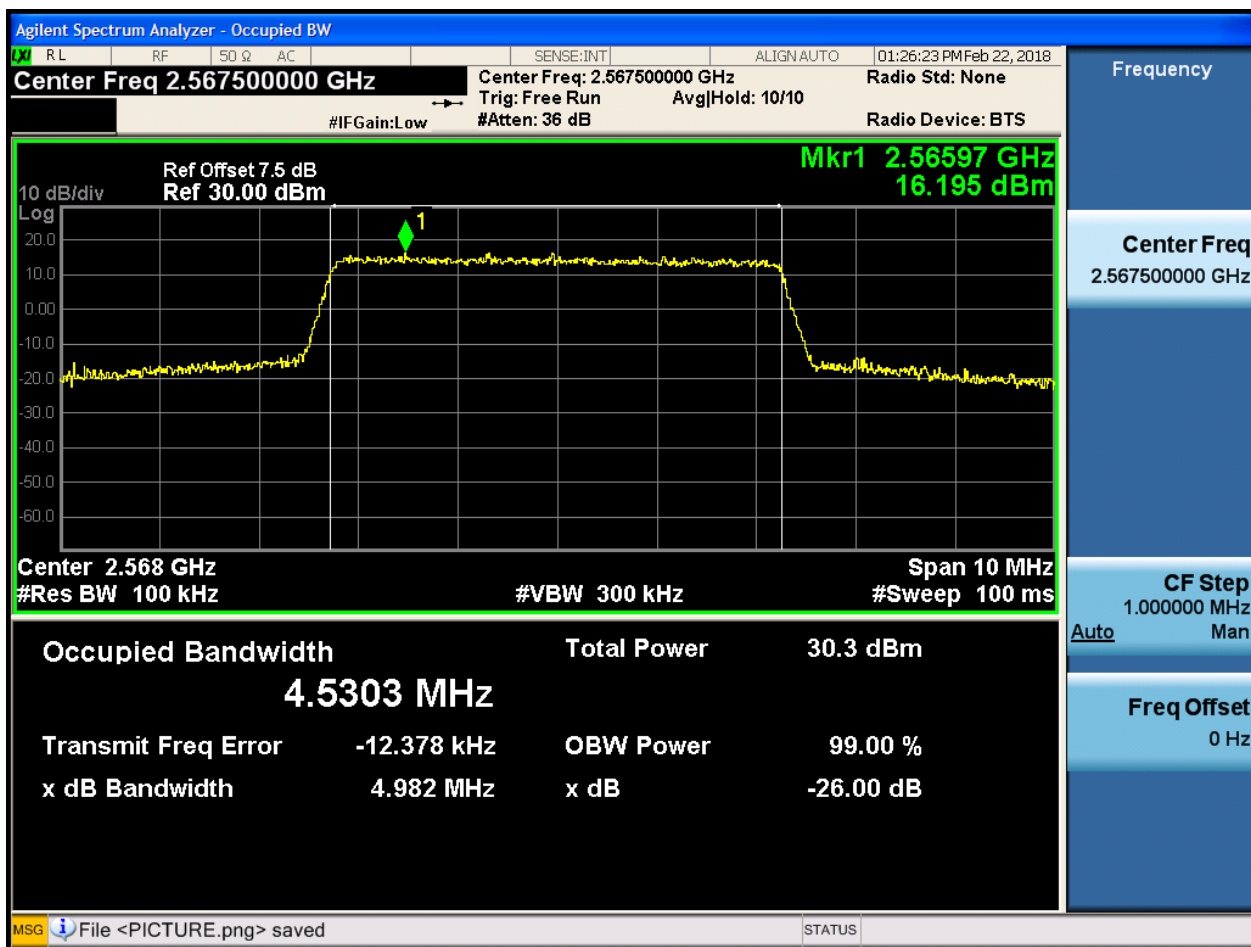
4.1.1.2.1.2.1 Test RB = RB25#0





4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0

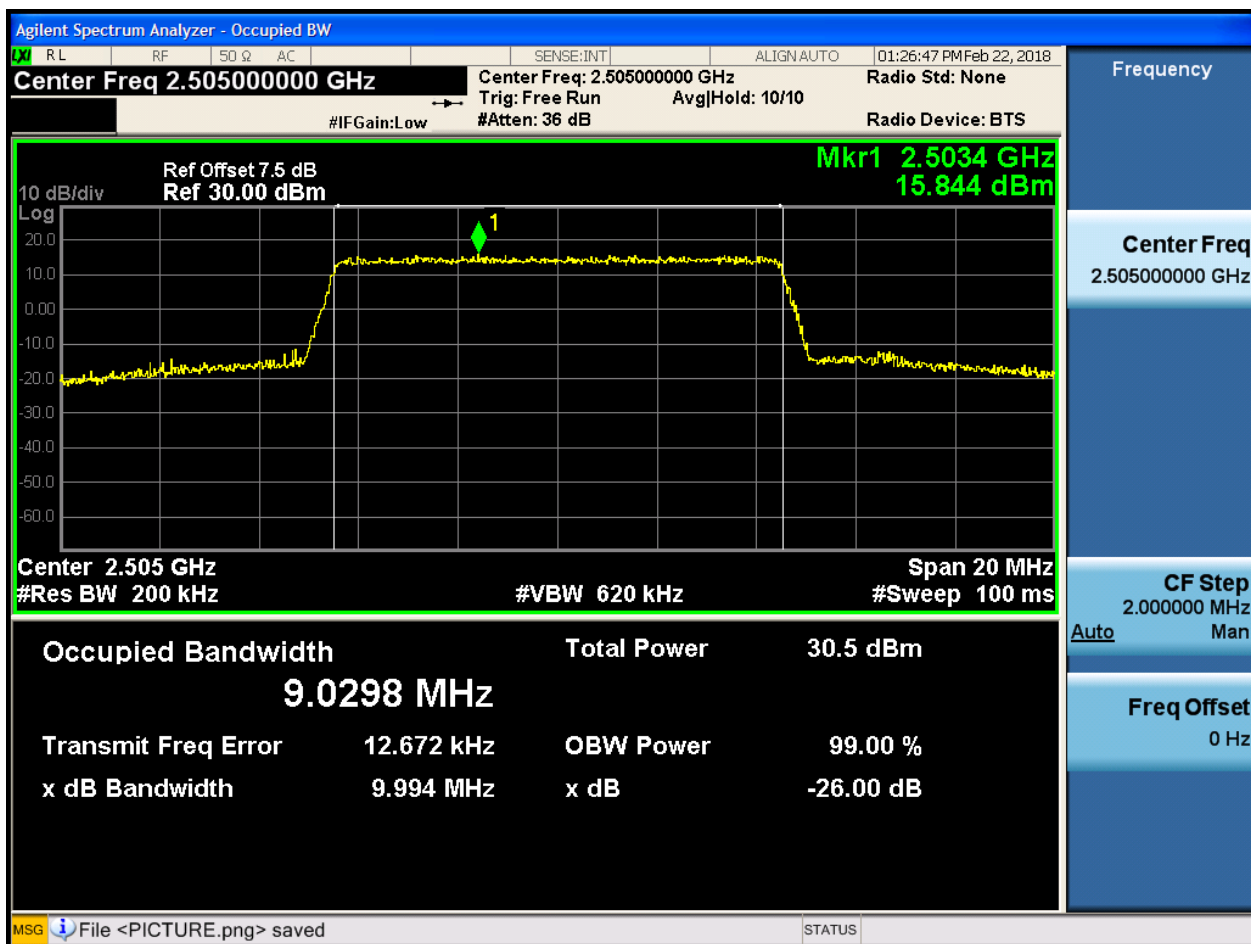




4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

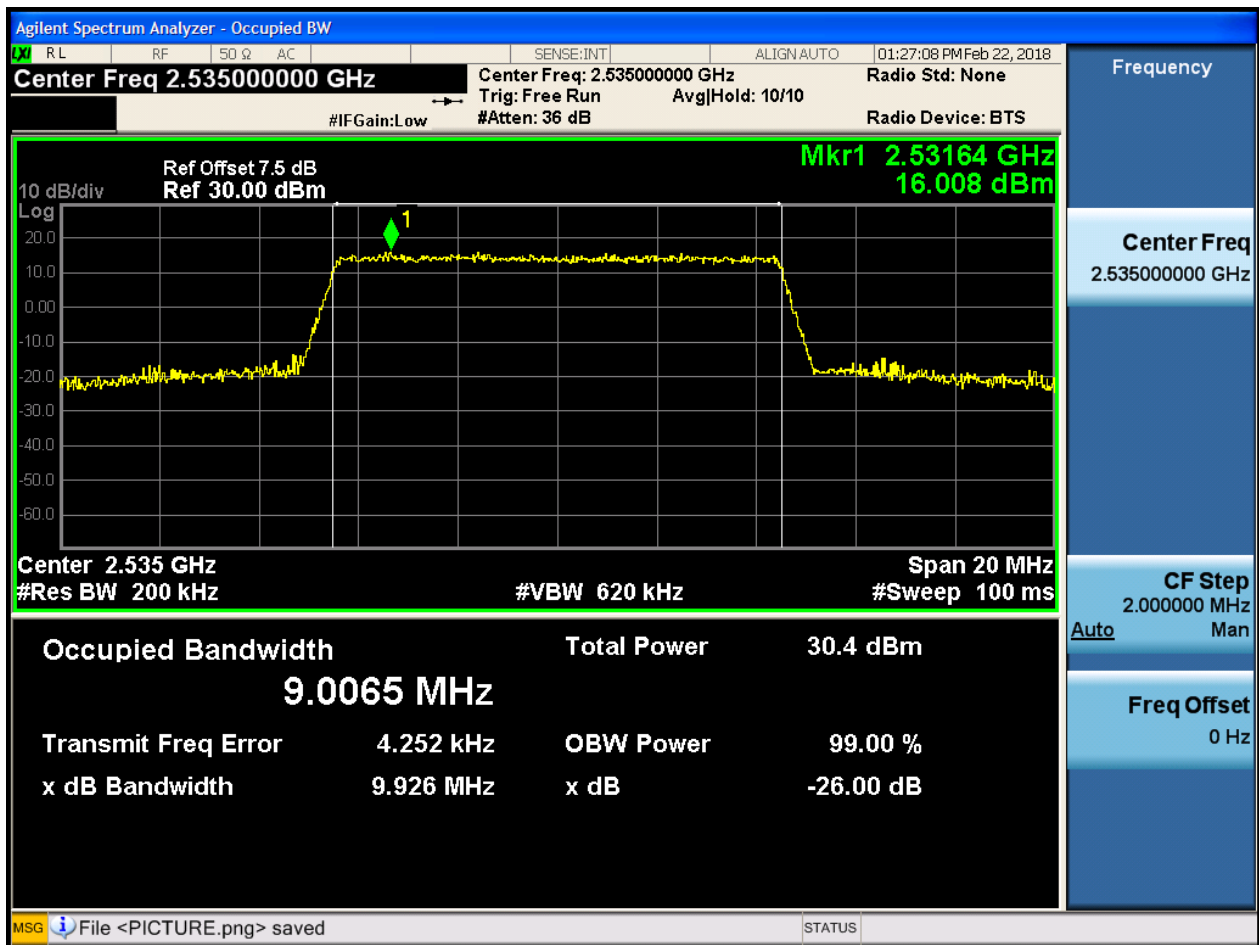
4.1.1.2.2.1.1 Test RB = RB50#0





4.1.1.2.2.2 Test Channel = MCH

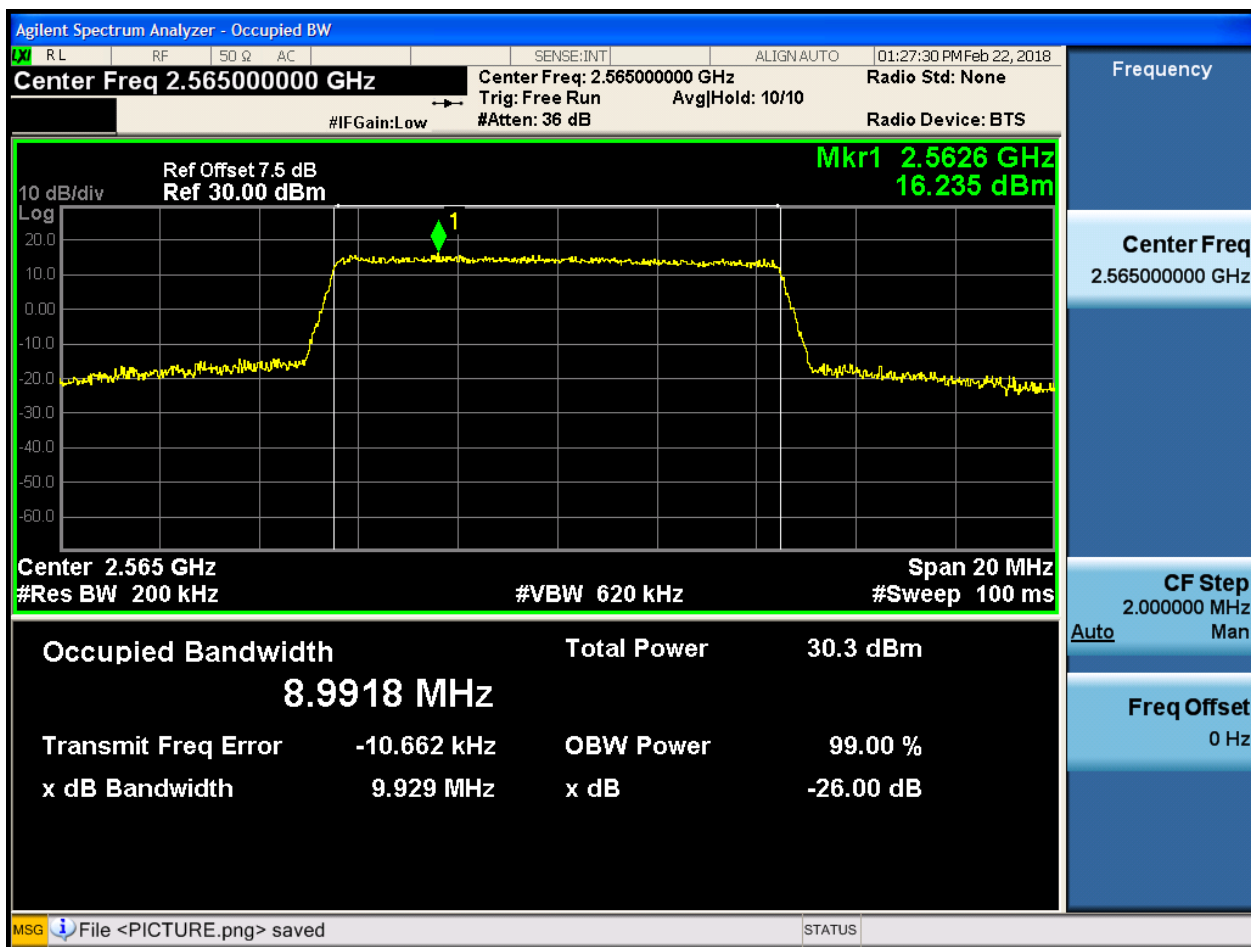
4.1.1.2.2.2.1 Test RB = RB50#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0

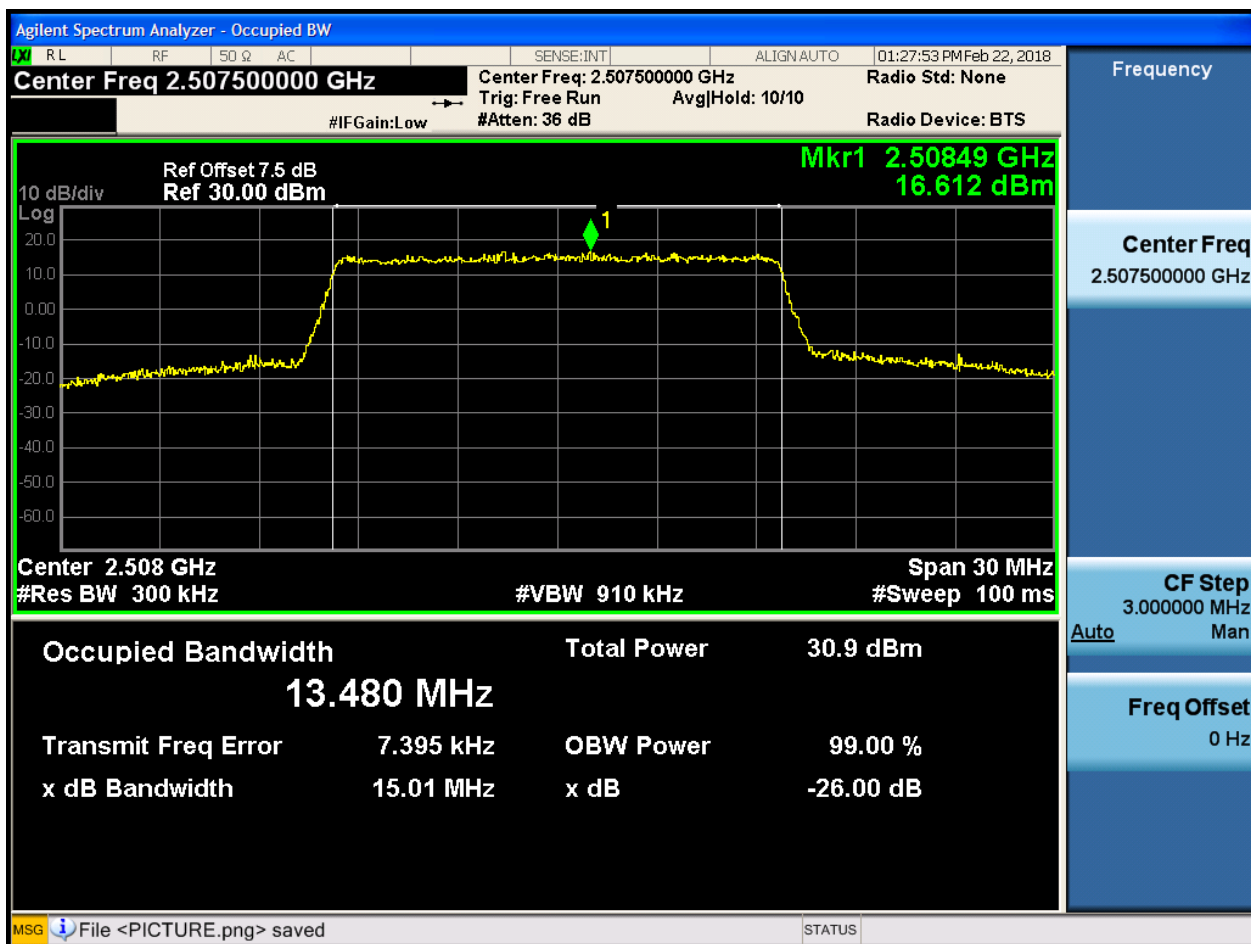




4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

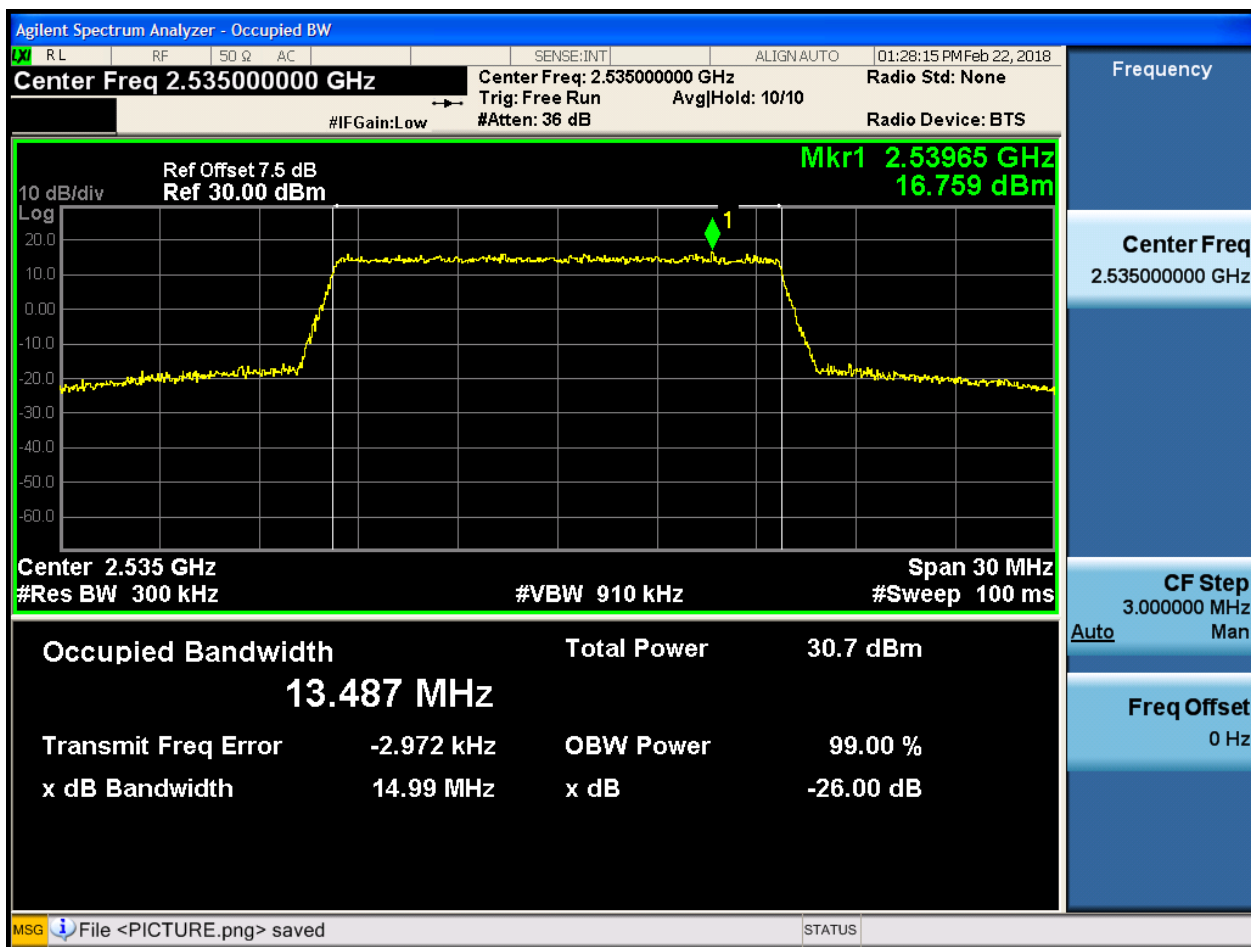
4.1.1.2.3.1.1 Test RB = RB75#0





4.1.1.2.3.2 Test Channel = MCH

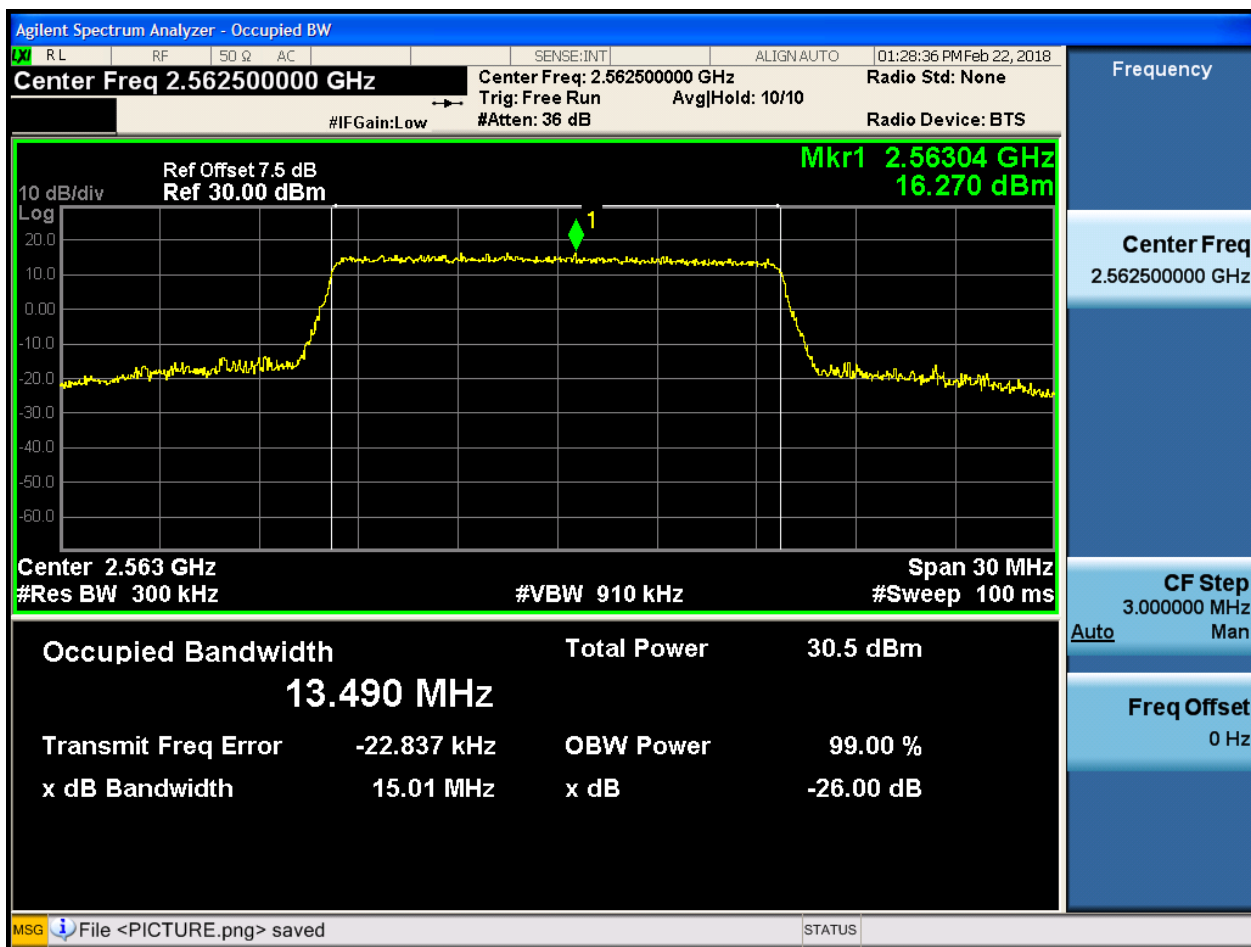
4.1.1.2.3.2.1 Test RB = RB75#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0

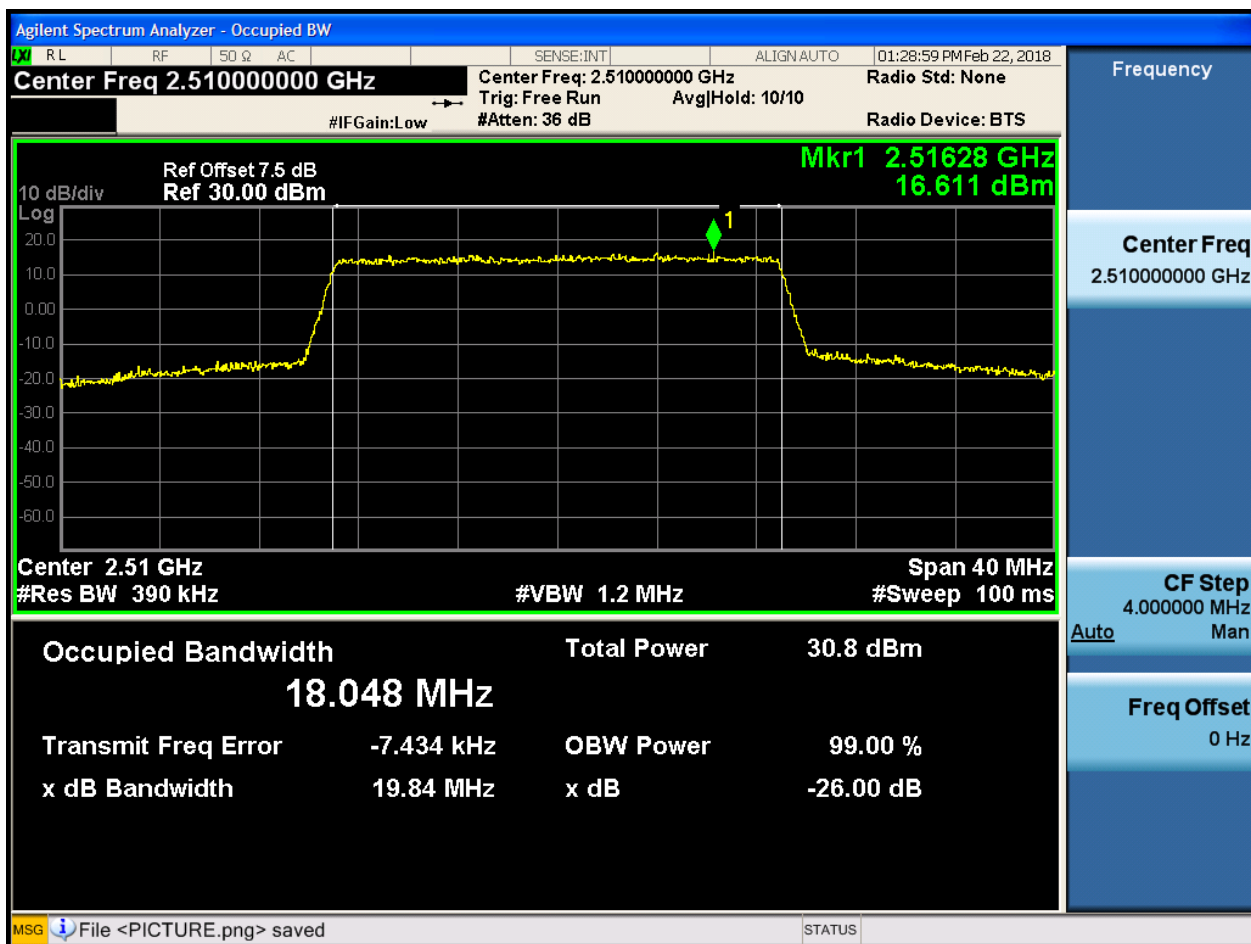




4.1.1.2.4 Test Bandwidth = 20

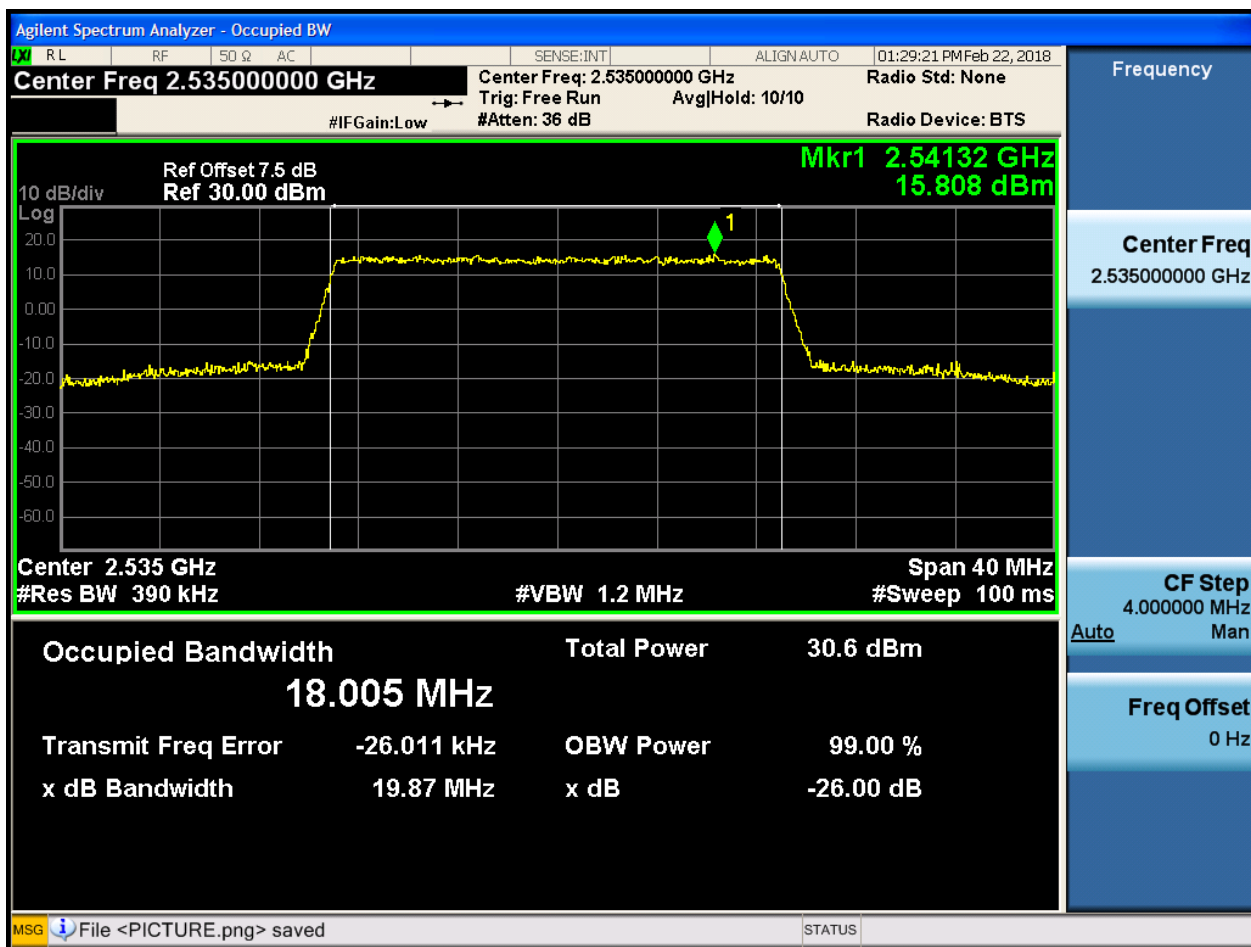
4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0



4.1.1.2.4.2 Test Channel = MCH

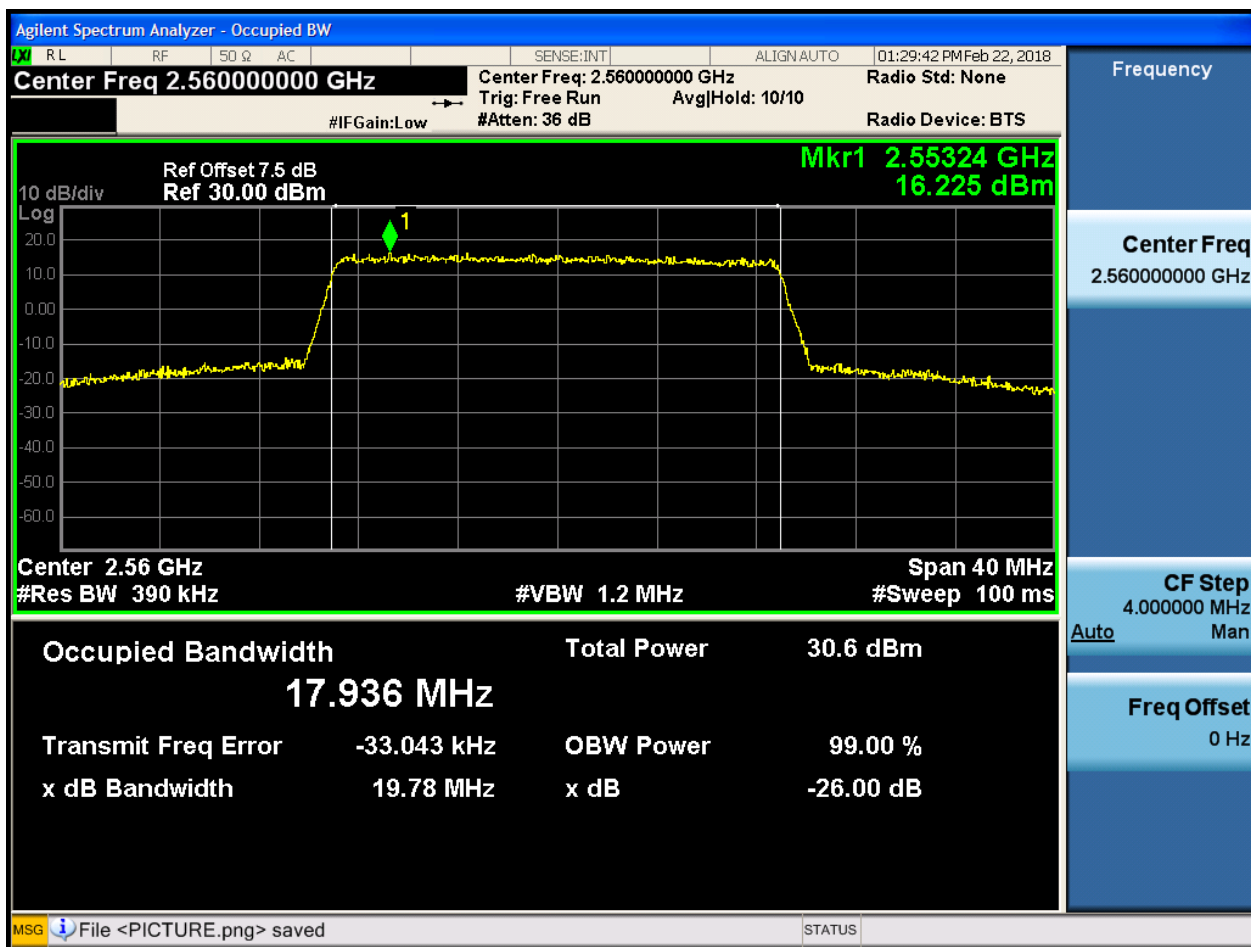
4.1.1.2.4.2.1 Test RB = RB100#0





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

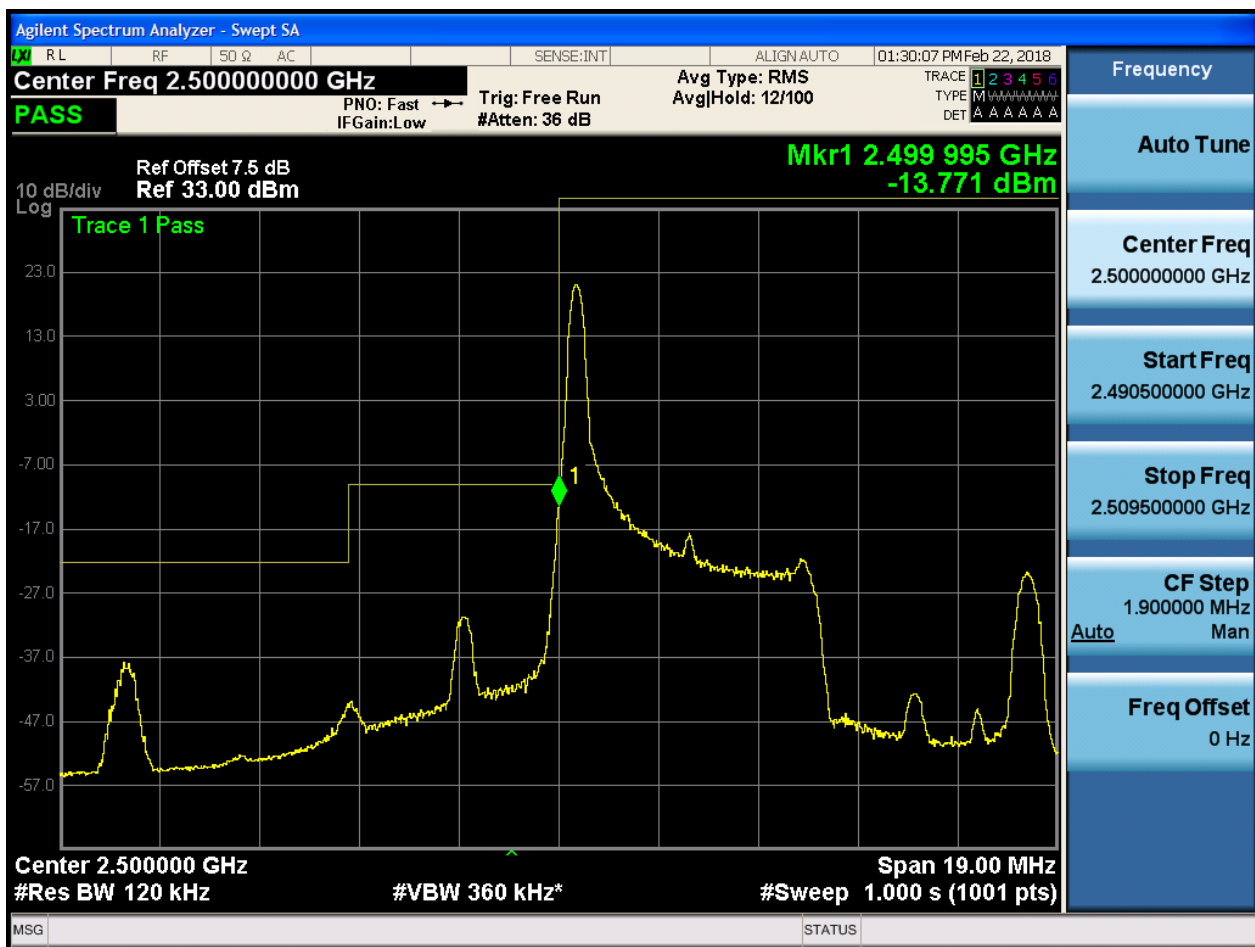
5.1.1 Test Band = BAND7

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

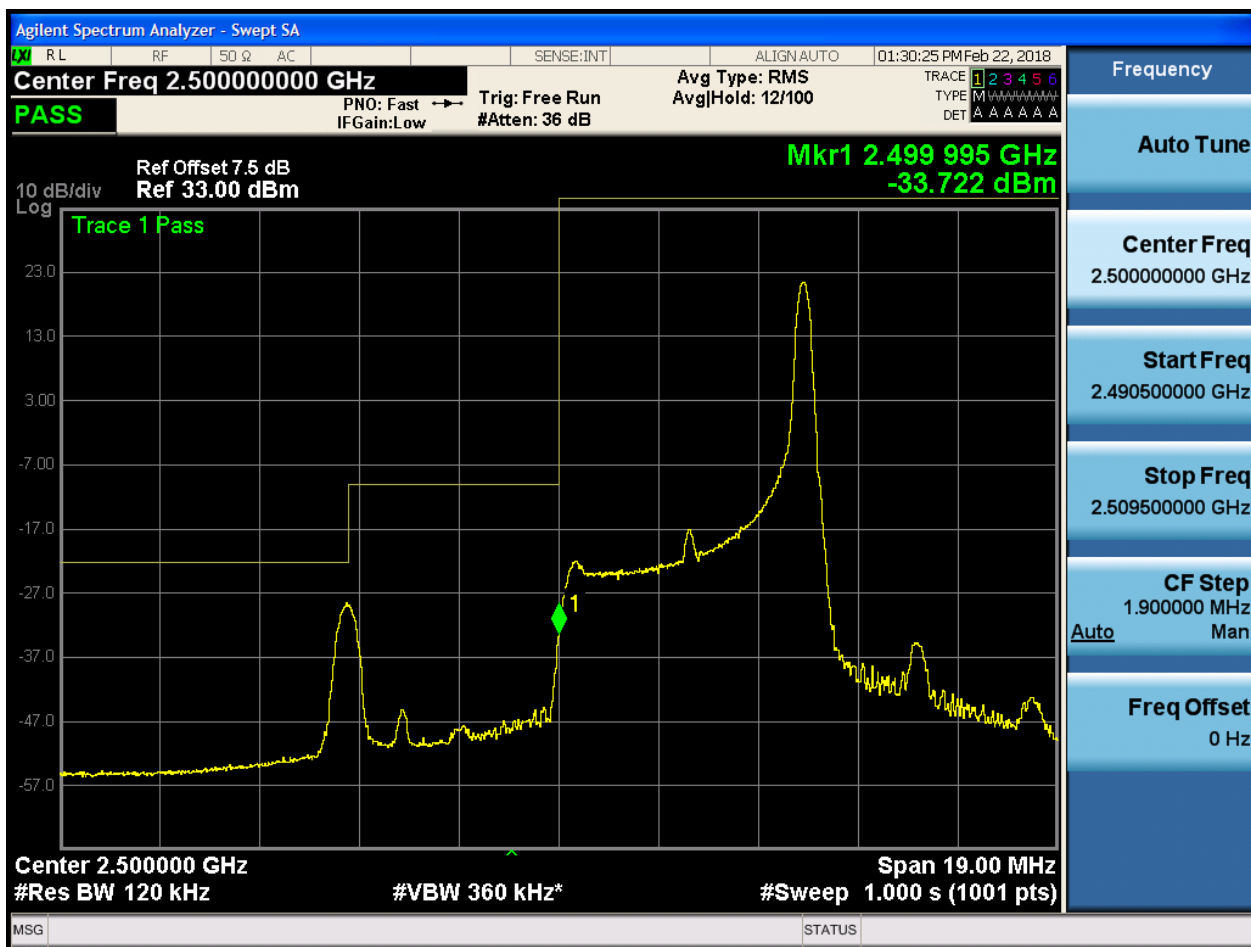
5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0



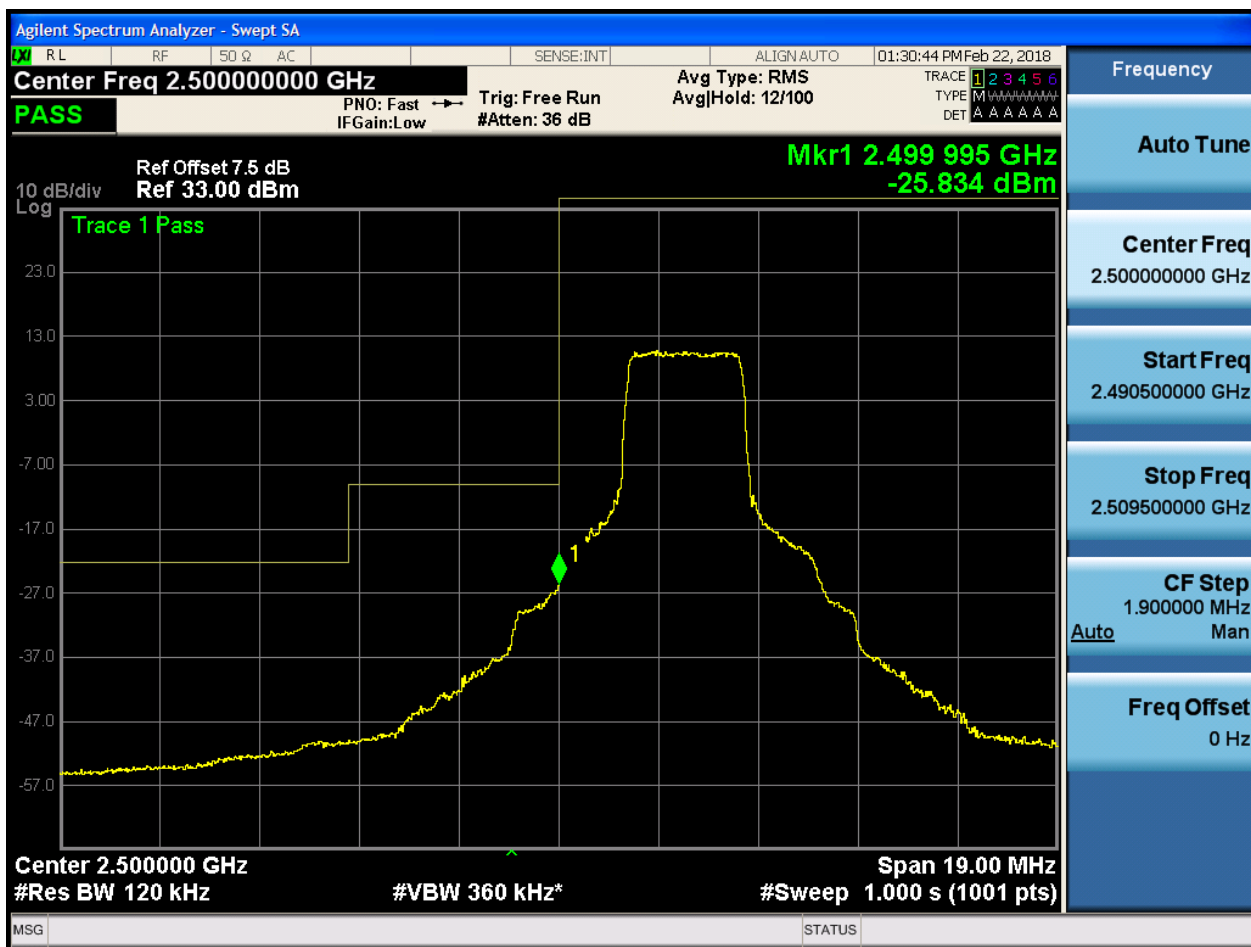


5.1.1.1.1.2 Test RB = RB1#24





5.1.1.1.1.3 Test RB = RB12#6





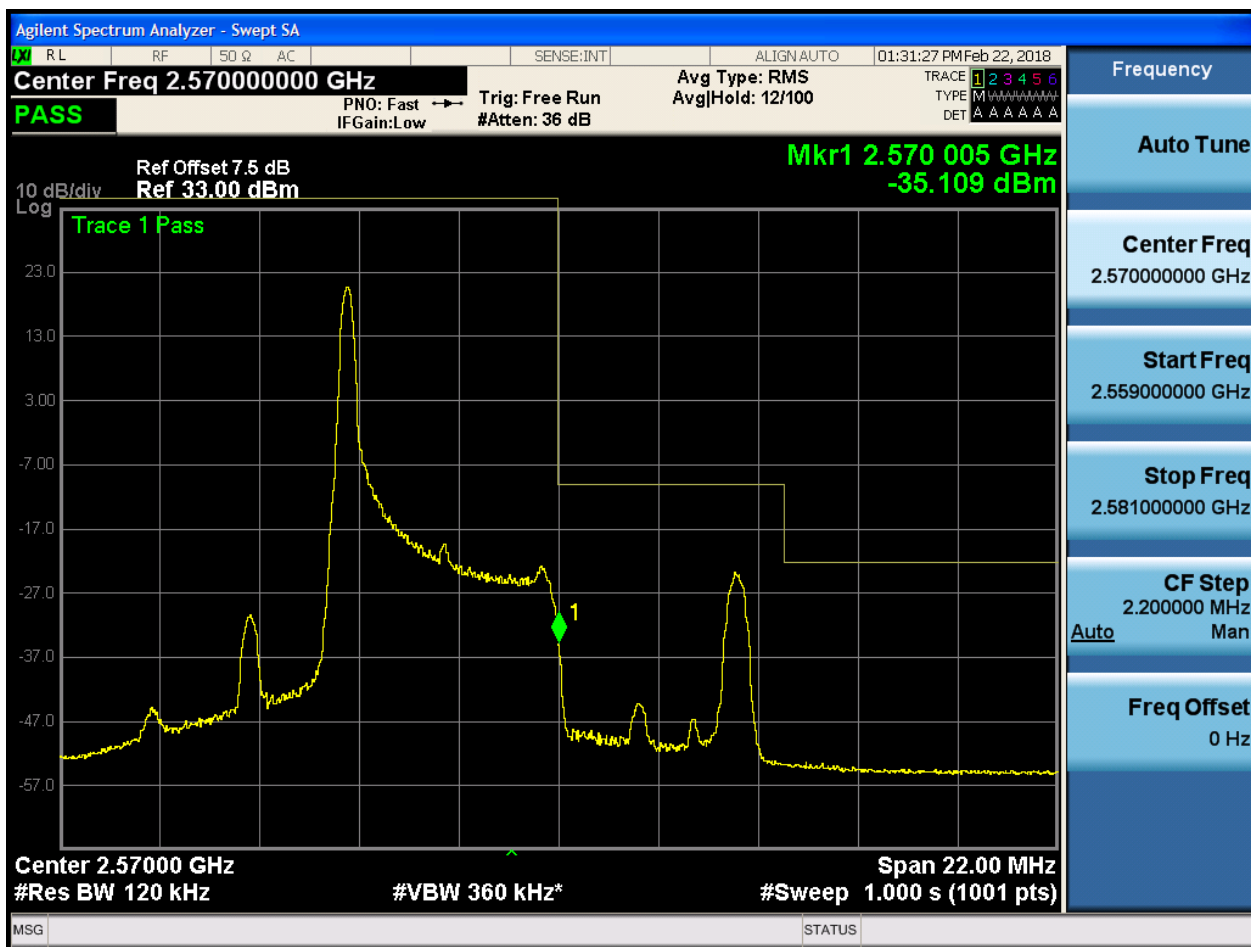
5.1.1.1.1.4 Test RB = RB25#0





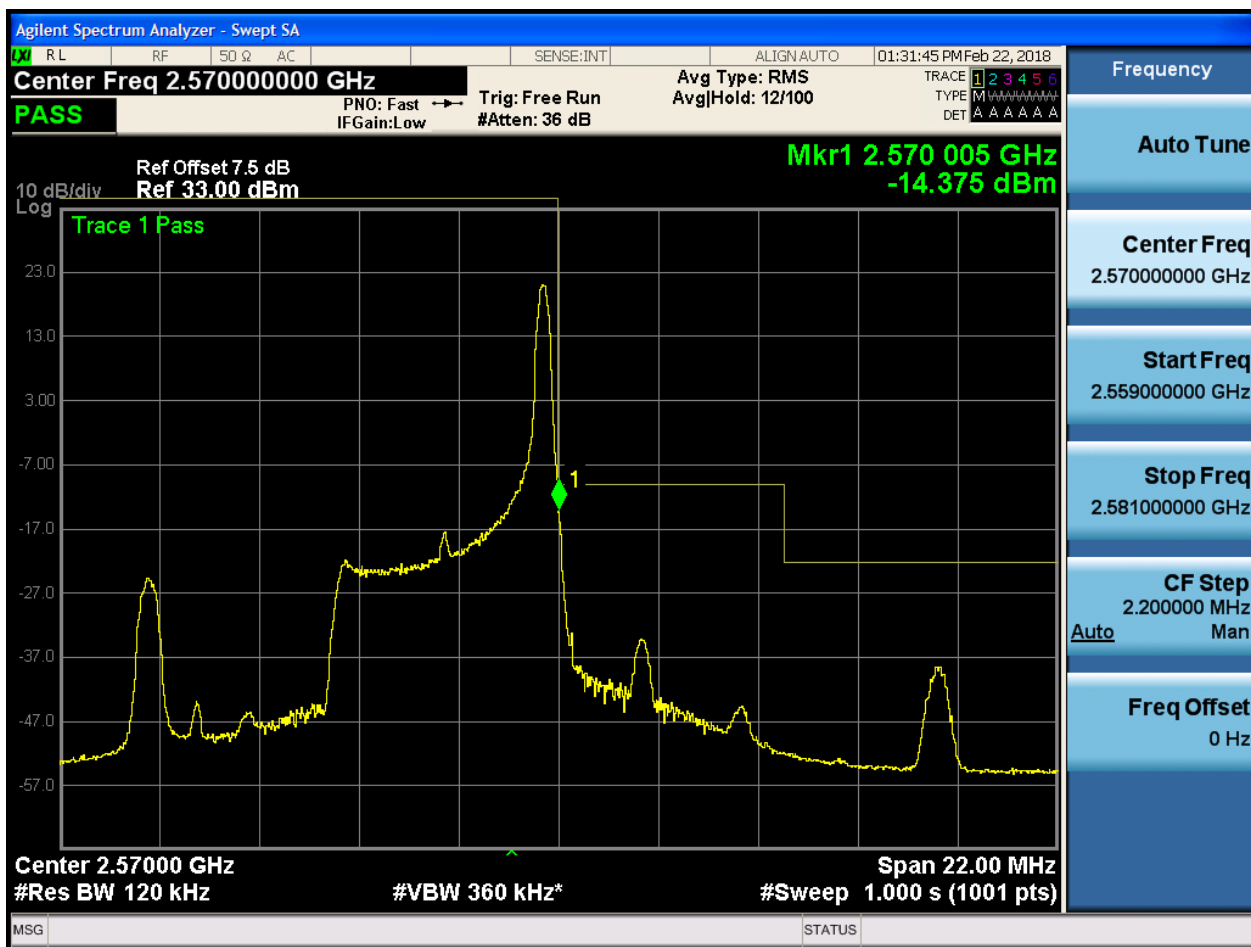
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0



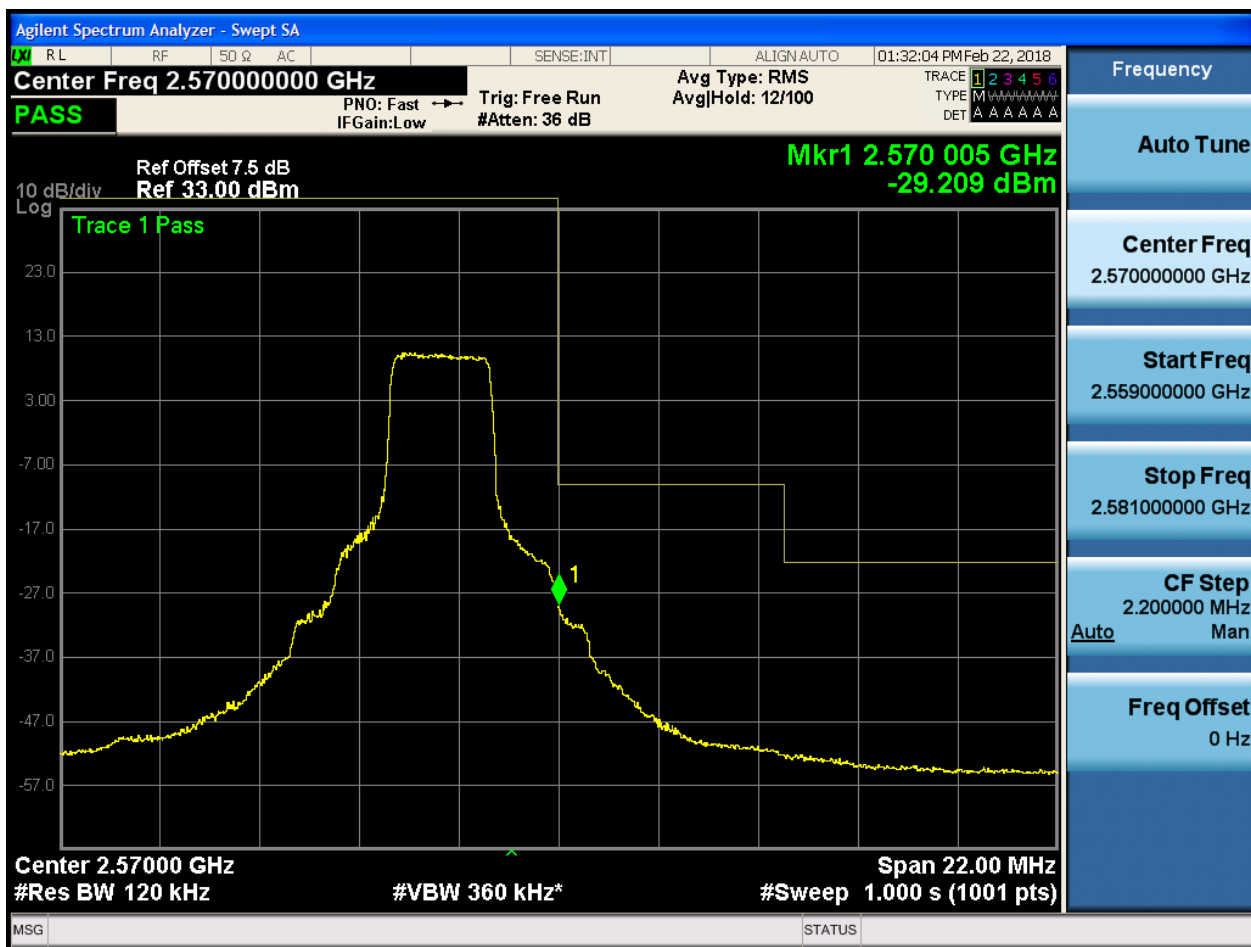


5.1.1.1.2.2 Test RB = RB1#24





5.1.1.1.2.3 Test RB = RB12#6





5.1.1.1.2.4 Test RB = RB25#0

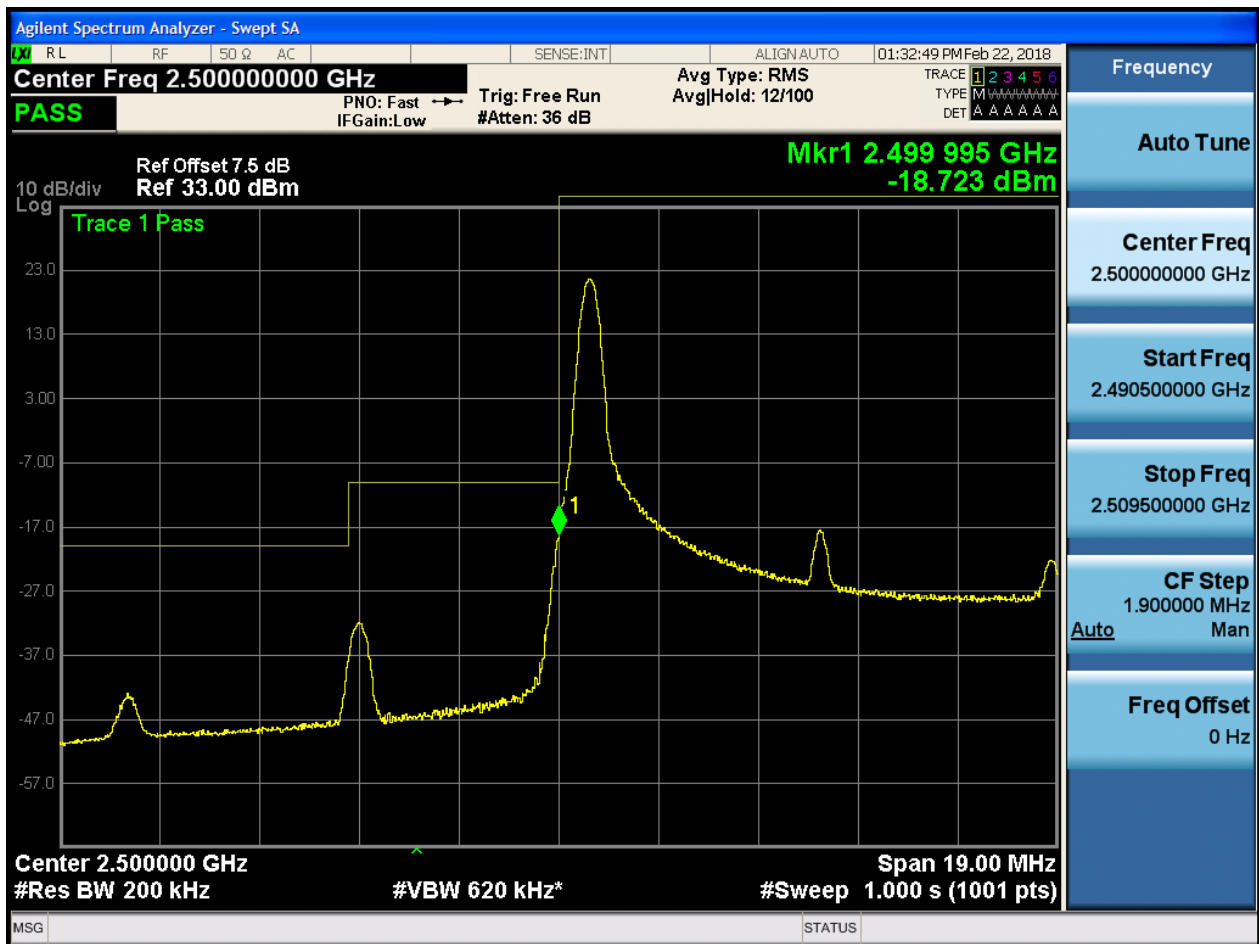


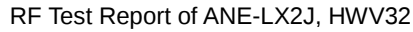


5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:33:07 PM Feb 22, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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 33.00 dBm

Mkr1 2.499 995 GHz
-37.392 dBm

10 dB/div
Log

Trace 1 Pass

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

MSG STATUS



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:33:26 PM Feb 22, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
PASS PNO: Fast 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 33.00 dBm

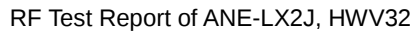
Mkr1 2.499 995 GHz
-29.218 dBm

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



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:33:45 PM Feb 22, 2018

Center Freq 2.500000000 GHz Avg Type: RMS
 PASS PNO: Fast Trig: Free Run
 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 33.00 dBm

Mkr1 2.499 995 GHz
 -27.032 dBm

10 dB/div
 Log

Trace 1 Pass

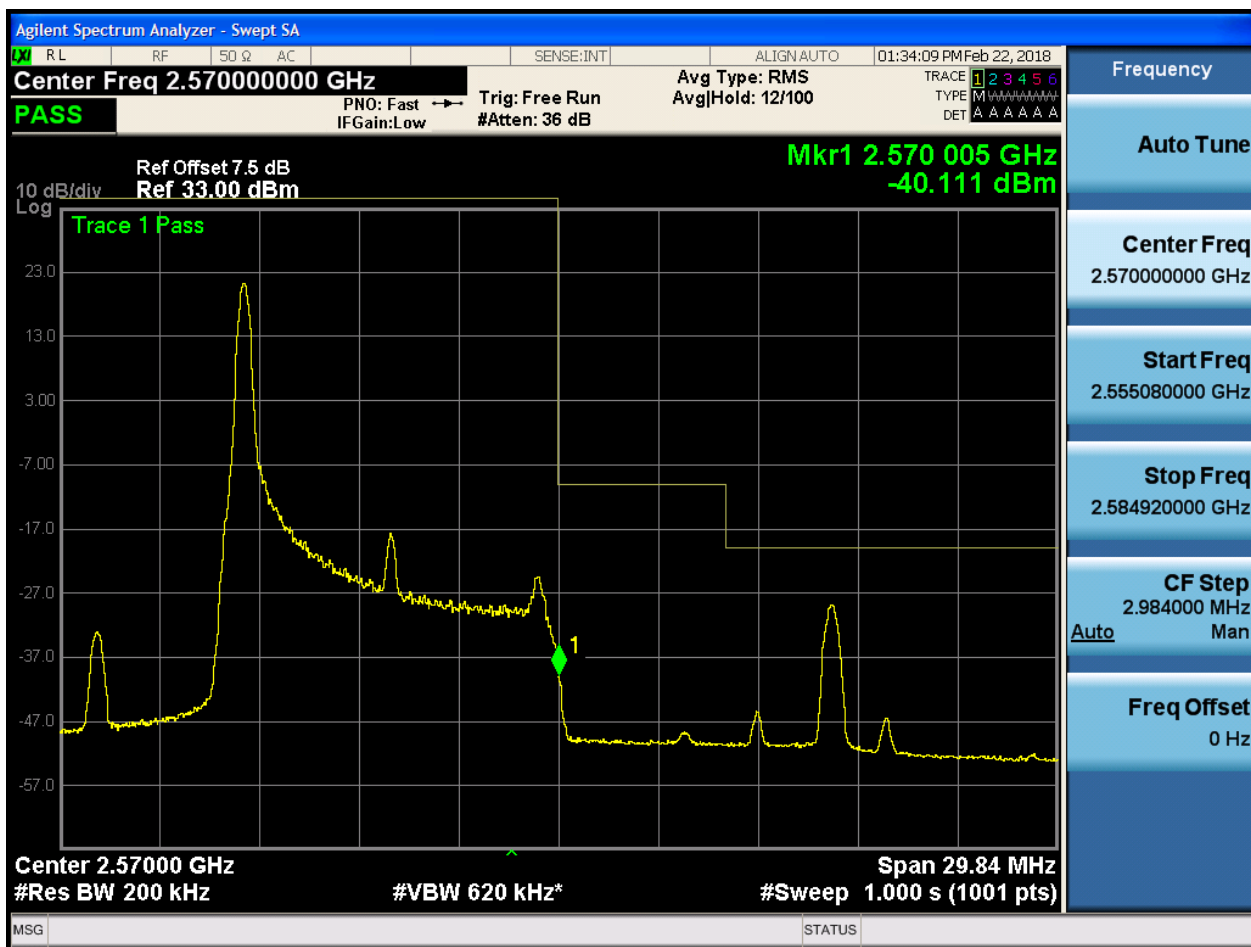
Center 2.500000 GHz Span 19.00 MHz
 #Res BW 200 kHz #VBW 620 kHz #Sweep 1.000 s (1001 pts)

MSG STATUS



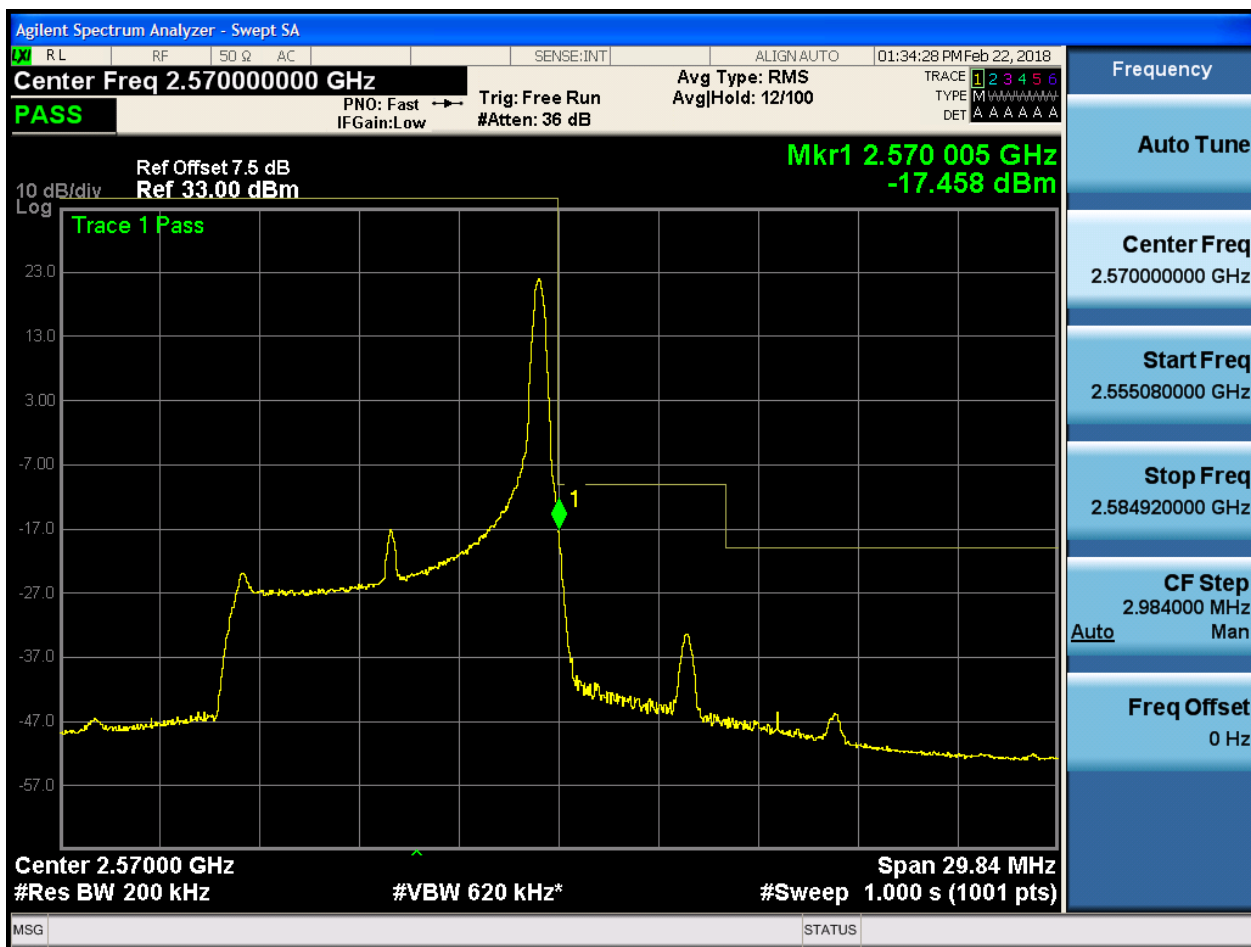
5.1.1.1.2.2 Test Channel = HCH

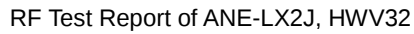
5.1.1.1.2.2.1 Test RB = RB1#0





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 01:34:46 PM Feb 22, 2018

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

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 005 GHz
-32.776 dBm

10 dB/div
Log

Trace 1 Pass

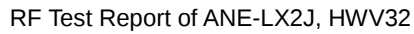
Center 2.57000 GHz Span 29.84 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.1.2.2.4 Test RB = RB50#0







Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-39.588 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)

Frequency

Auto Tune

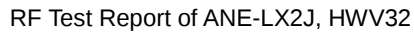
Center Freq
2.500000000 GHz

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

Center Freq 2.50000000 GHz

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-27.614 dBm

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)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

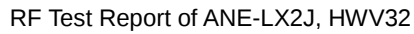
Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz

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 01:36:30 PM Feb 22, 2018

Center Freq 2.500000000 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 33.00 dBm

Mkr1 2.499 995 GHz
-25.771 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

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

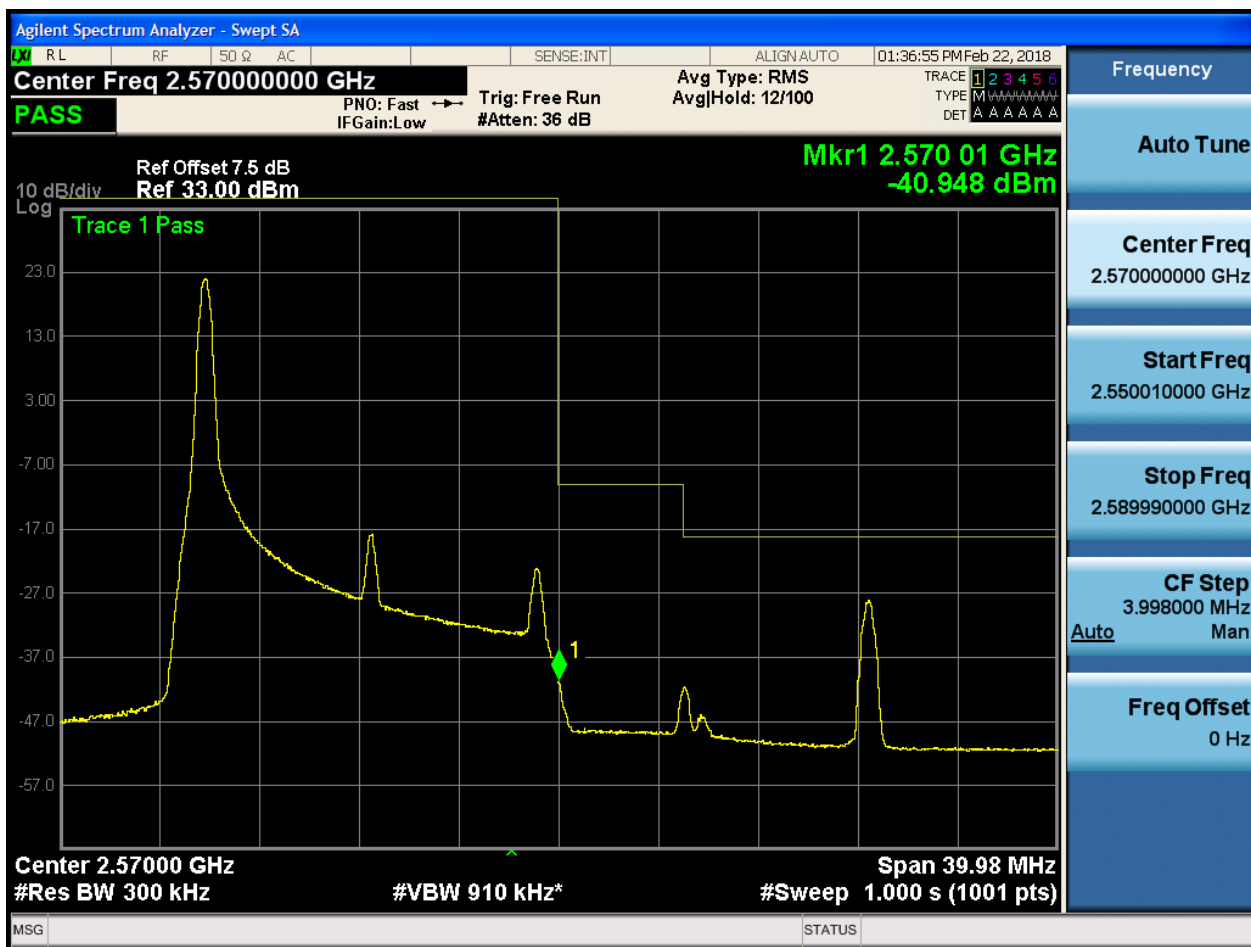
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



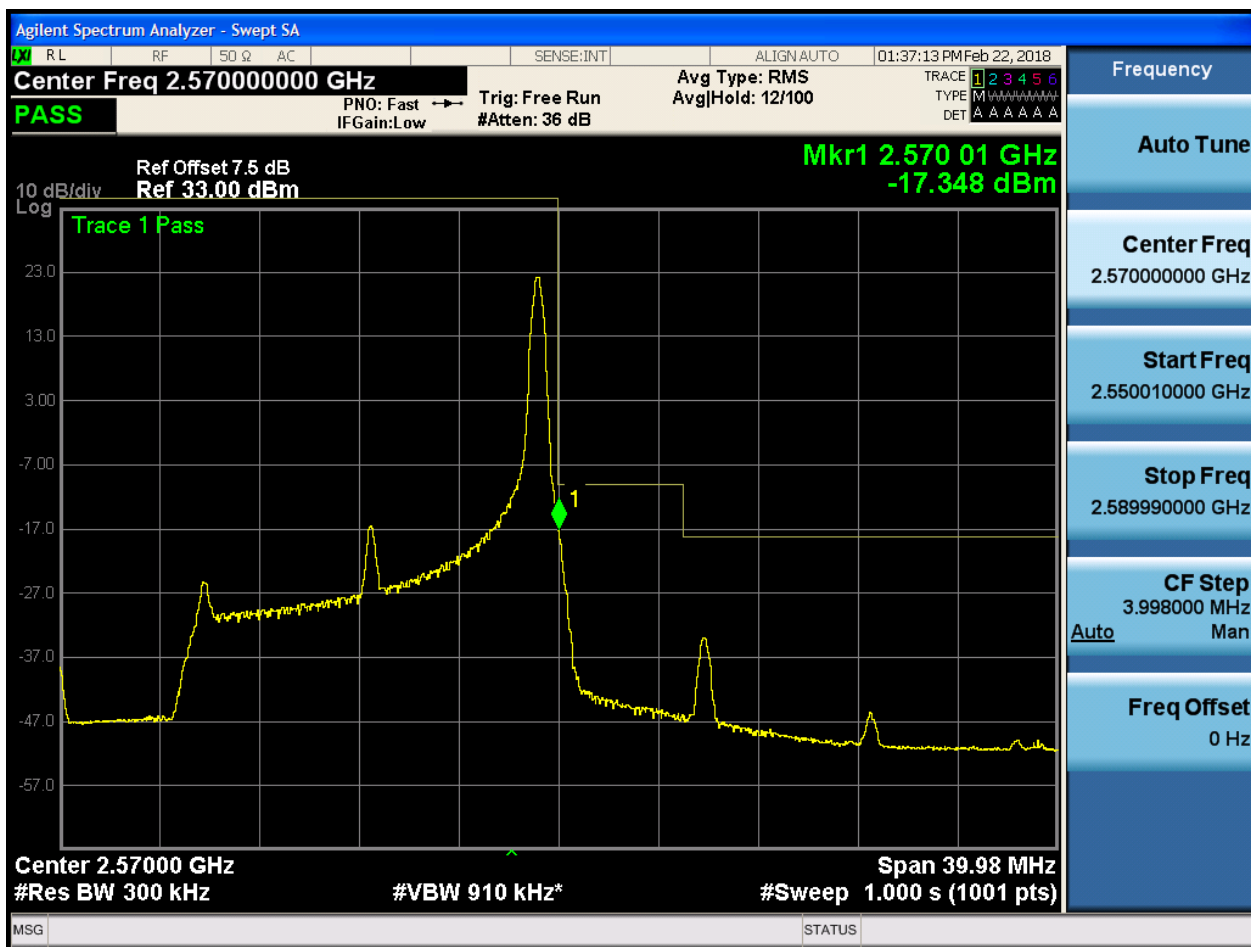
5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:37:32 PM Feb 22, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
PASS PNO: Fast IF Gain: Low Trig: Free Run #Atten: 36 dB
TYPE M DET A A A A A A

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-33.165 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 39.98 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

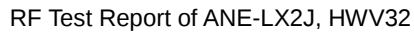
Center Freq
2.570000000 GHz

Start Freq
2.550010000 GHz

Stop Freq
2.589990000 GHz

CF Step
3.998000 MHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:37:51 PM Feb 22, 2018

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

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 01 GHz
-27.721 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 39.98 MHz
#Res BW 300 kHz #VBW 910 kHz #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

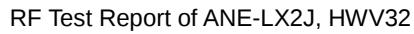
Center Freq
2.570000000 GHz

Start Freq
2.550010000 GHz

Stop Freq
2.589990000 GHz

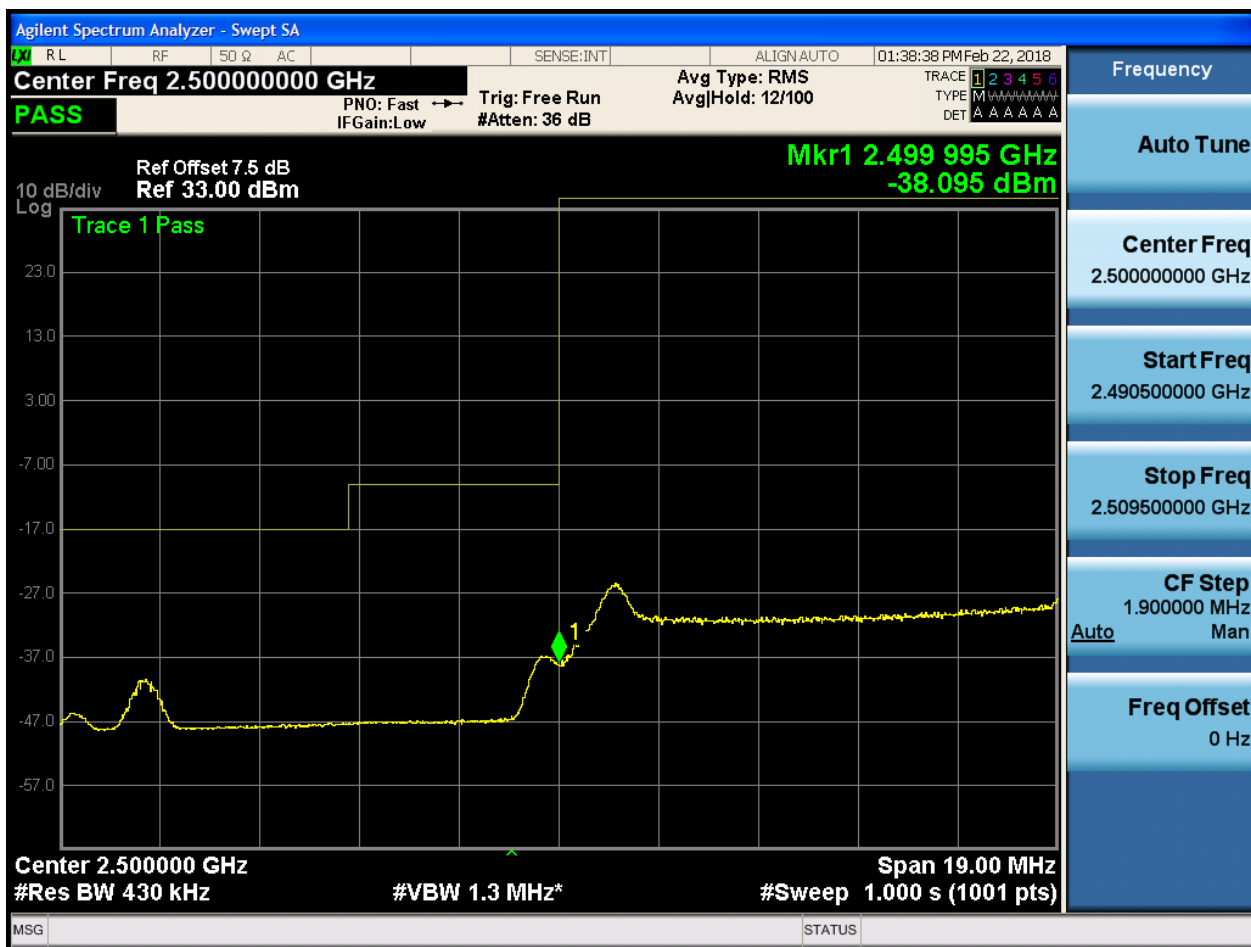
CF Step
3.998000 MHz
Auto Man

Freq Offset
0 Hz





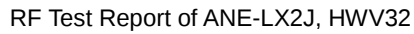
5.1.1.1.4.1.2 Test RB = RB1#99





5.1.1.1.4.1.3 Test RB = RB50#25





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:39:17 PM Feb 22, 2018

Center Freq 2.500000000 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 33.00 dBm

Mkr1 2.499 995 GHz
-27.730 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

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

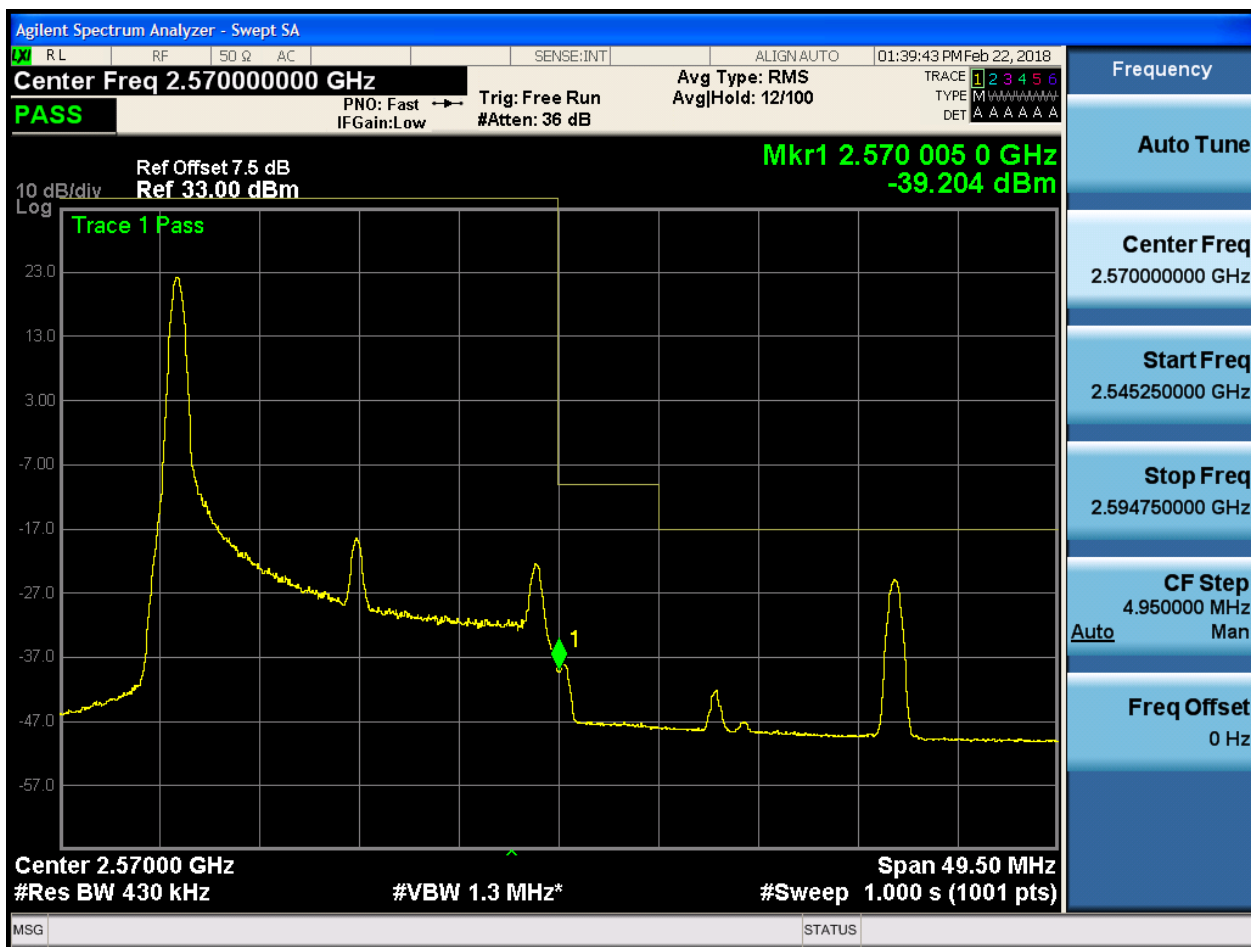
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



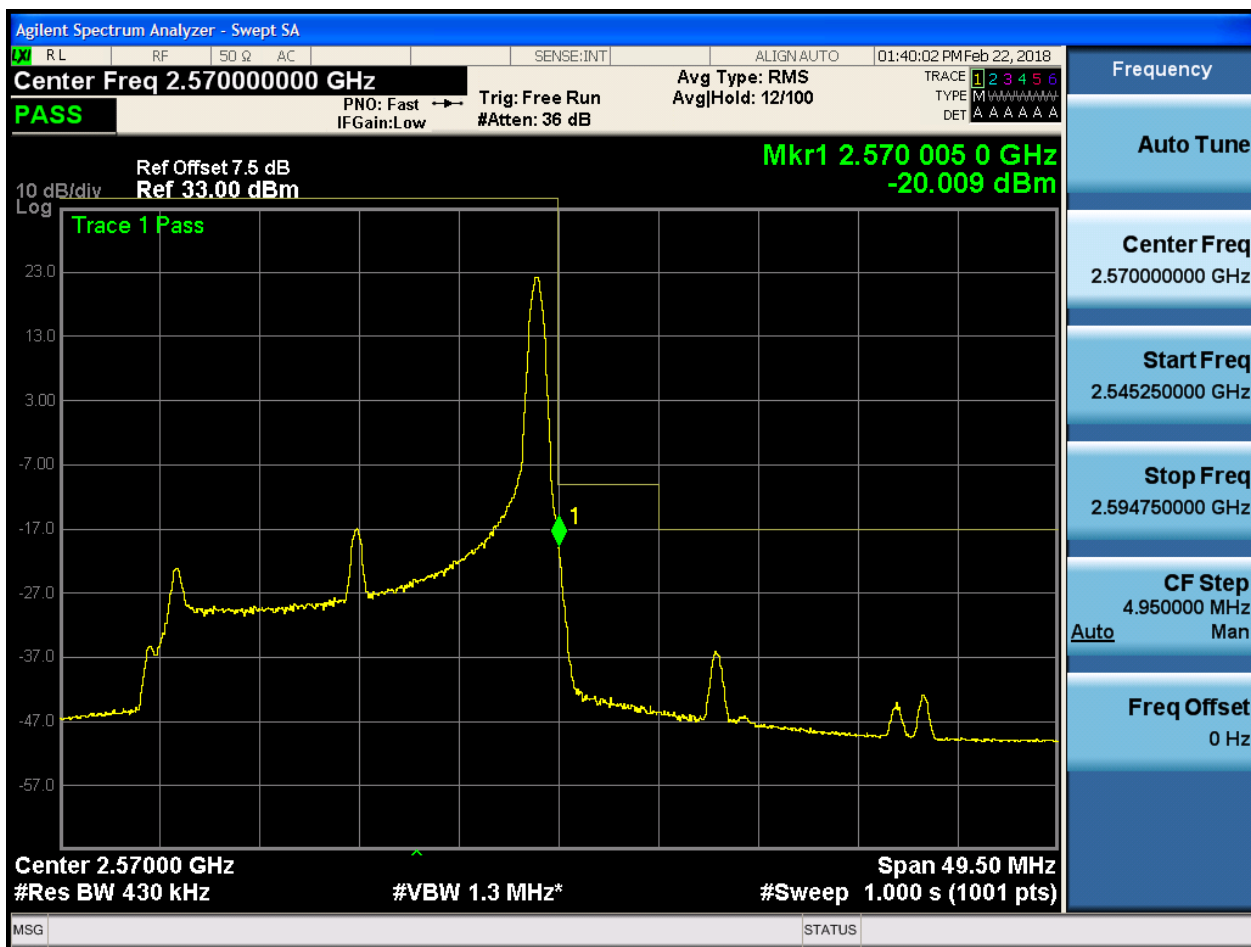
5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#99





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:40:22 PM Feb 22, 2018

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

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.570 005 0 GHz
-32.754 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz
Span 49.50 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.1.4.2.4 Test RB = RB100#0



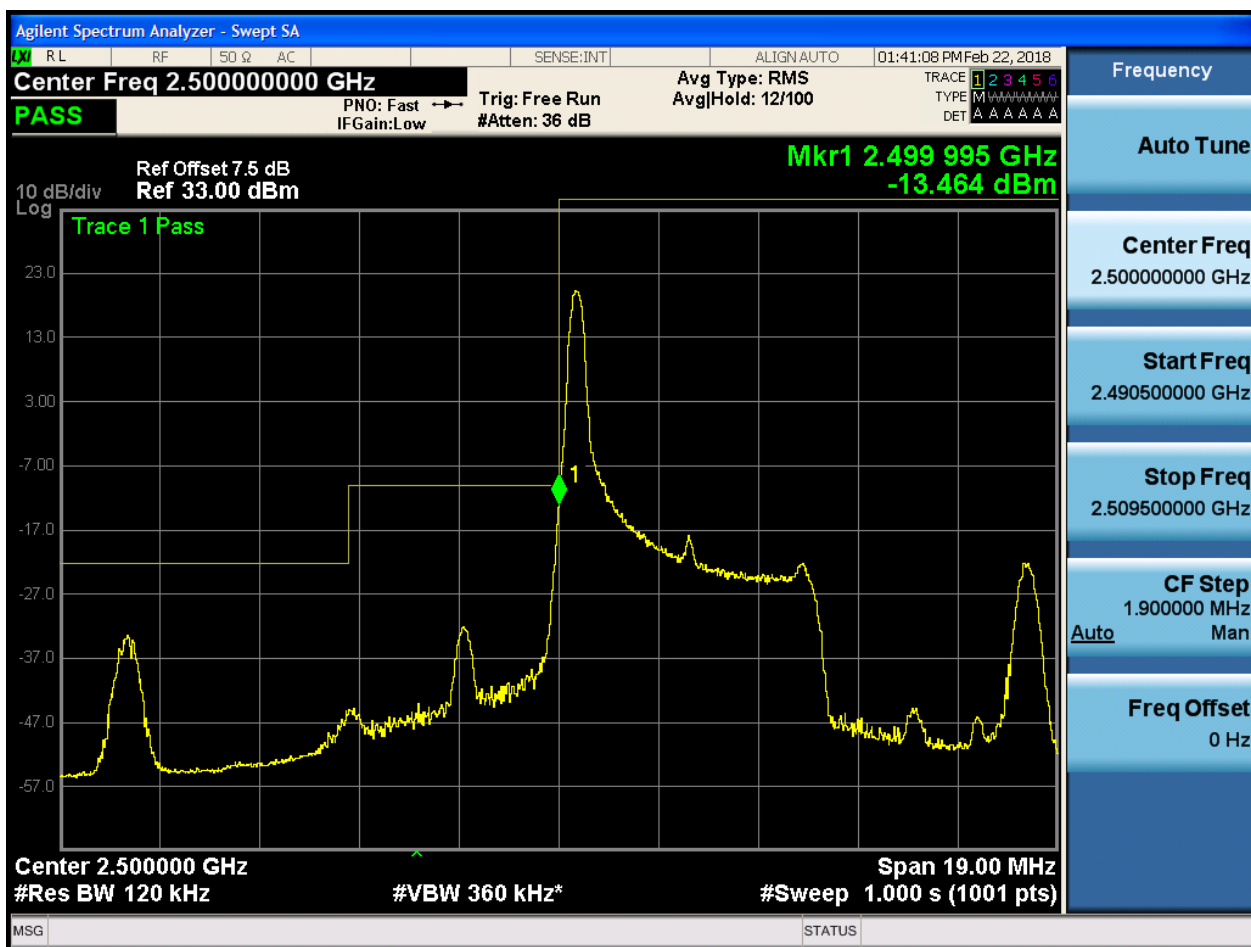


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

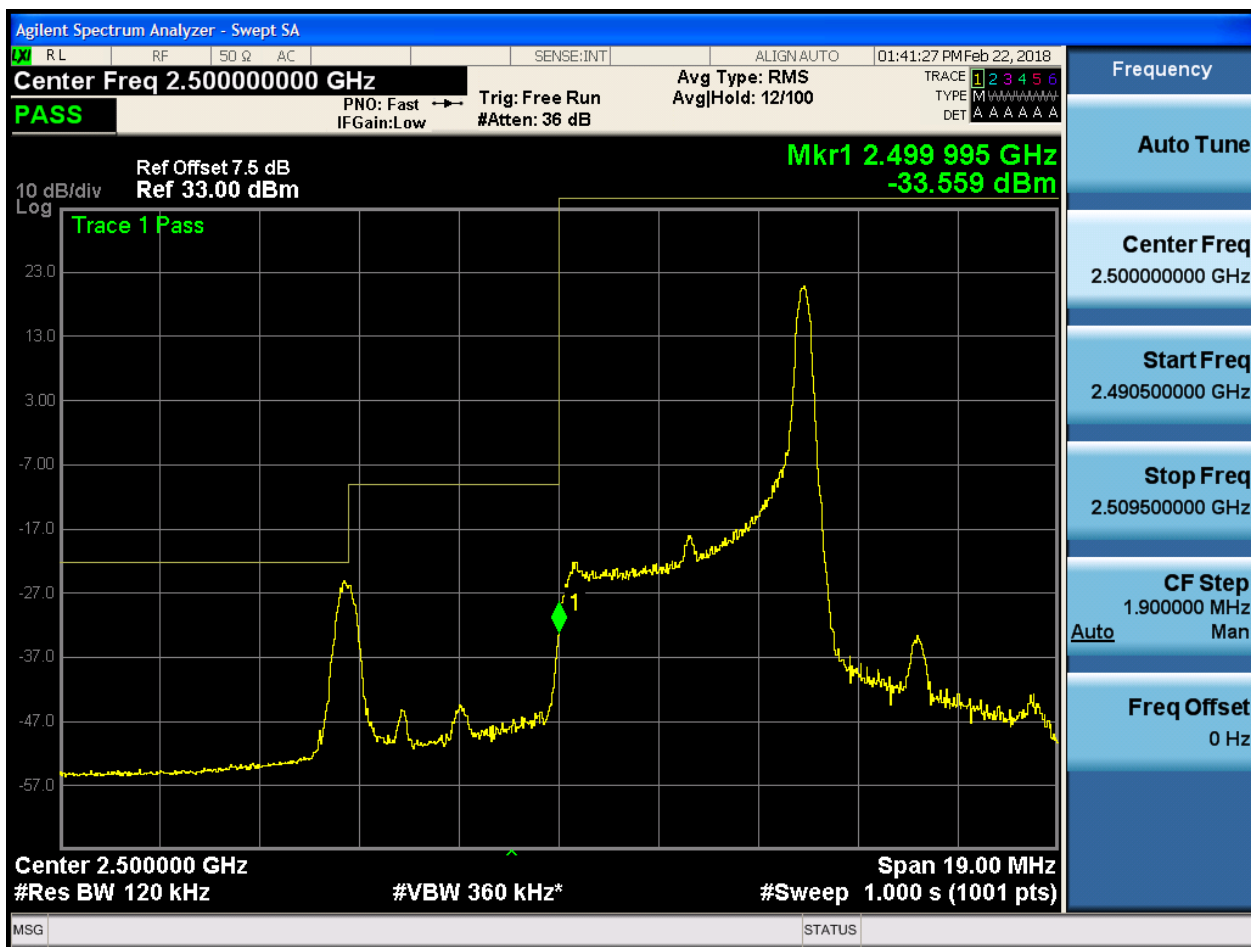
5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0



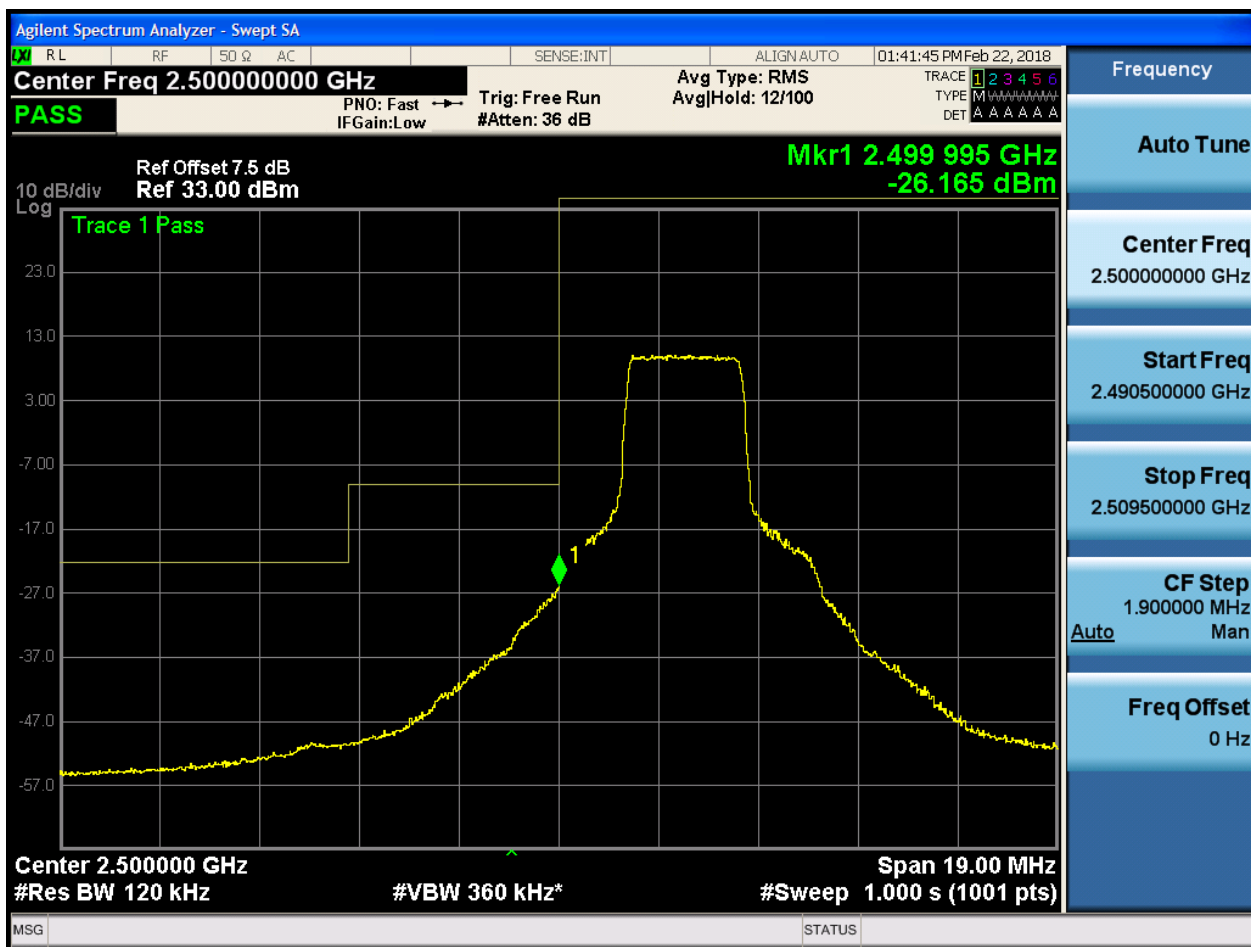


5.1.1.2.1.1.2 Test RB = RB1#24





5.1.1.2.1.1.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:42:04 PM Feb 22, 2018

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

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

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-23.573 dBm

10 dB/div
Log

Trace 1 Pass

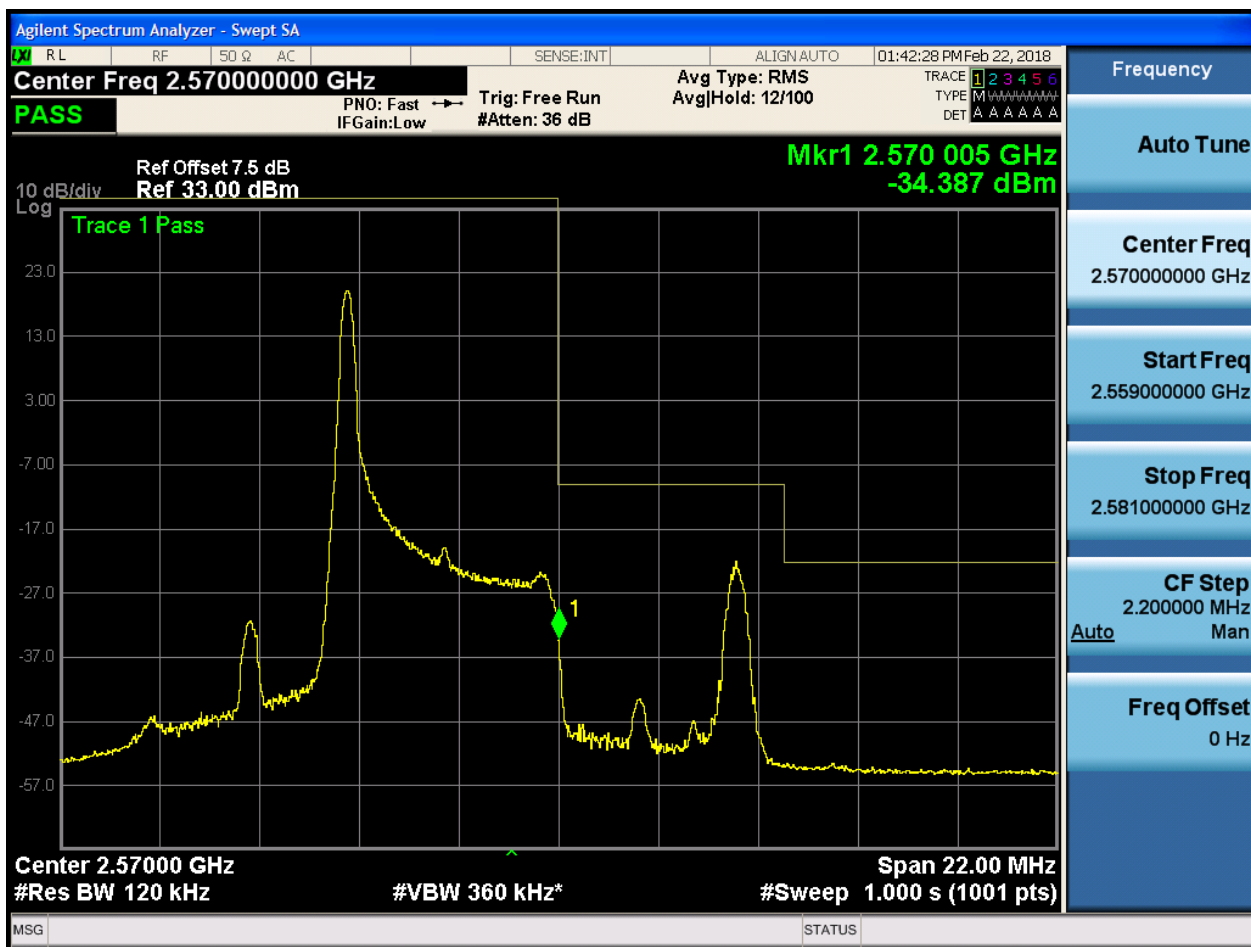
Center 2.500000 GHz Span 19.00 MHz
#Res BW 120 kHz #VBW 360 kHz #Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.1.2 Test Channel = HCH

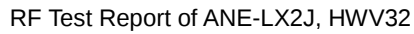
5.1.1.2.1.2.1 Test RB = RB1#0





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 01:43:05 PM Feb 22, 2018

Center Freq 2.570000000 GHz Avg Type: RMS
 PASS PNO: Fast 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

Ref Offset 7.5 dB
 Ref 33.00 dBm

Mkr1 2.570 005 GHz
 -28.991 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



5.1.1.2.1.2.4 Test RB = RB25#0

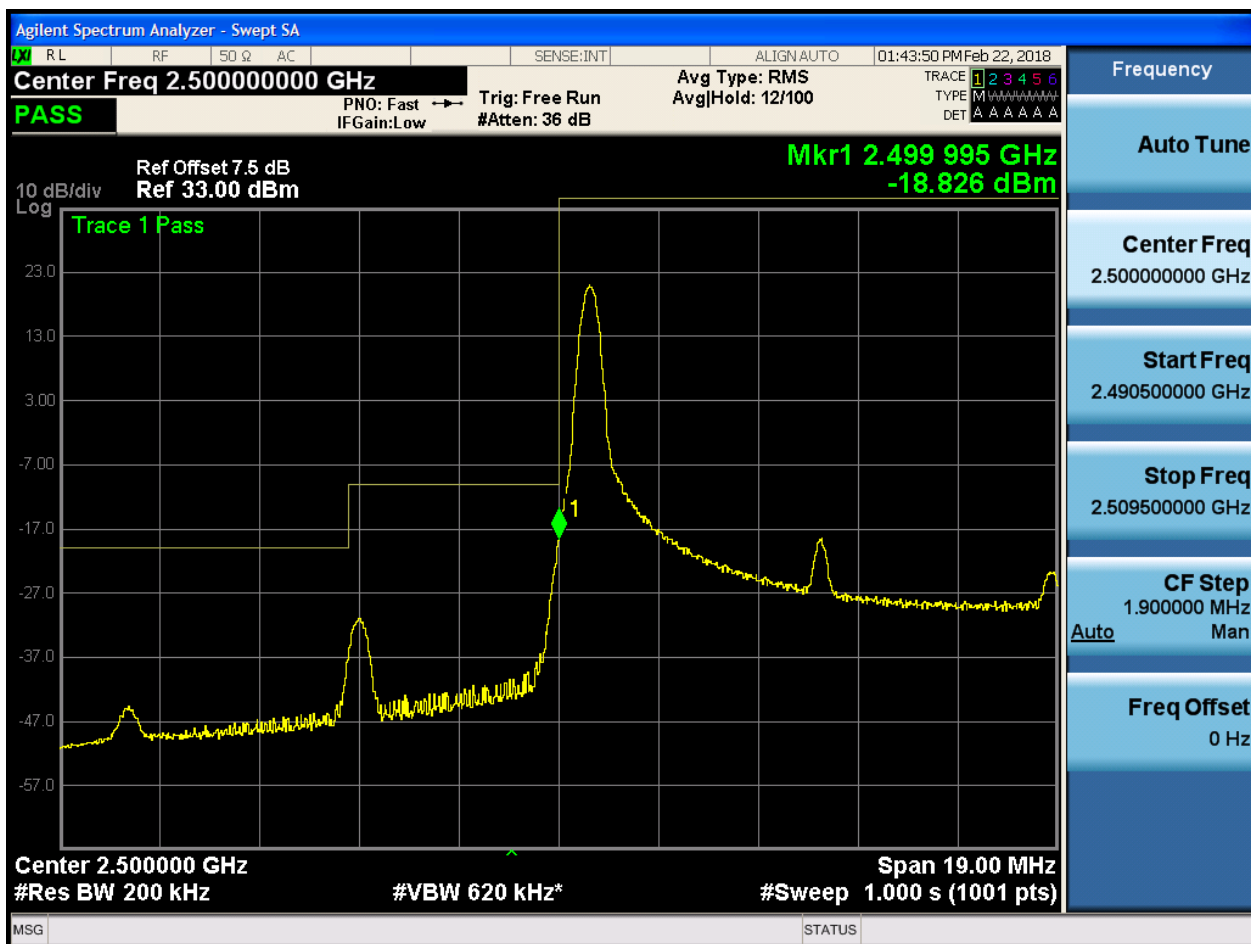


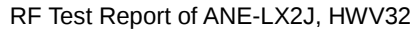


5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:44:09 PM Feb 22, 2018

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

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-38.616 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)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

Stop Freq
2.509500000 GHz

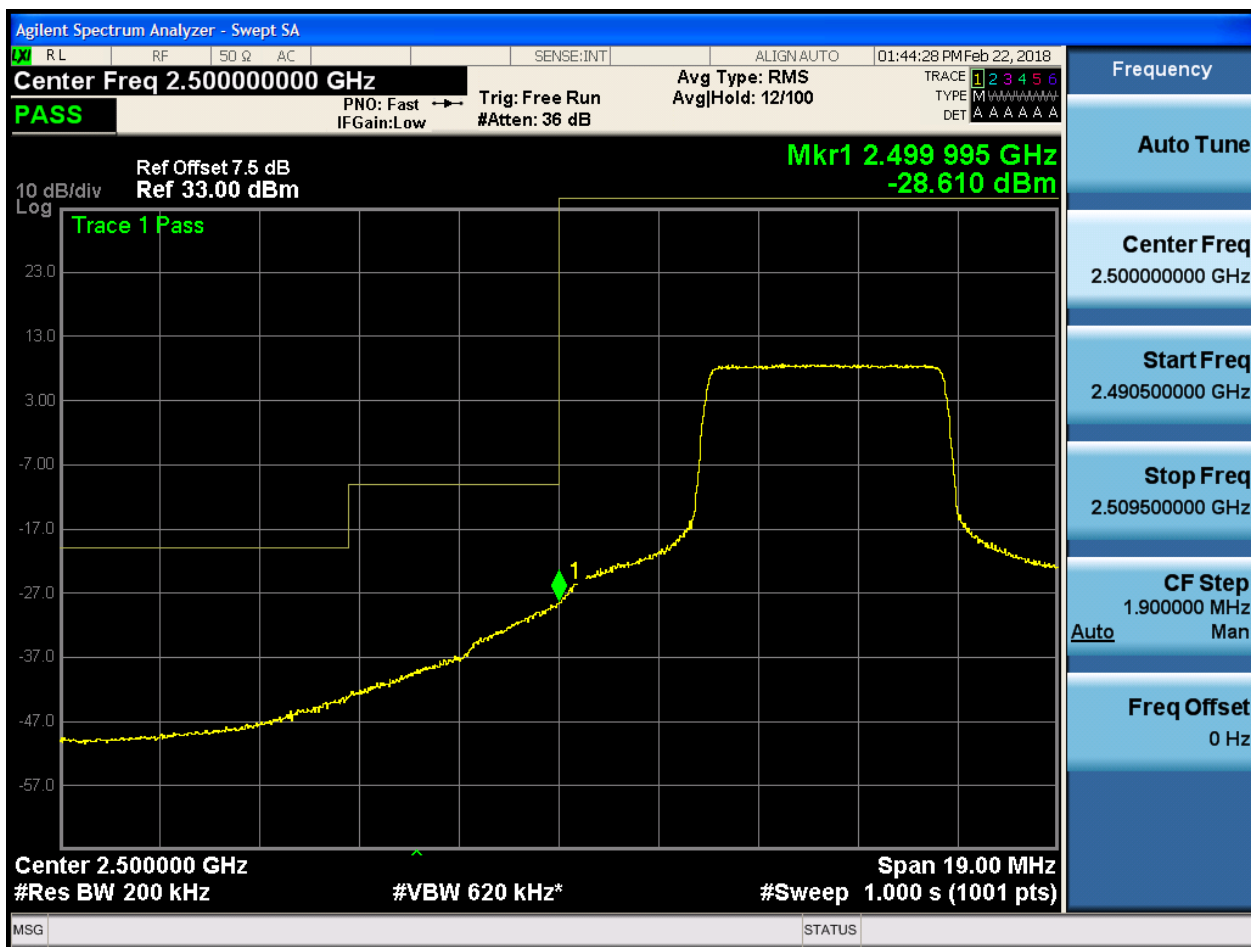
CF Step
1.900000 MHz
Auto Man

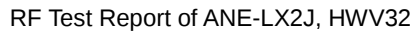
Freq Offset
0 Hz

MSG STATUS



5.1.1.2.2.1.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:44:46 PM Feb 22, 2018

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

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-26.539 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

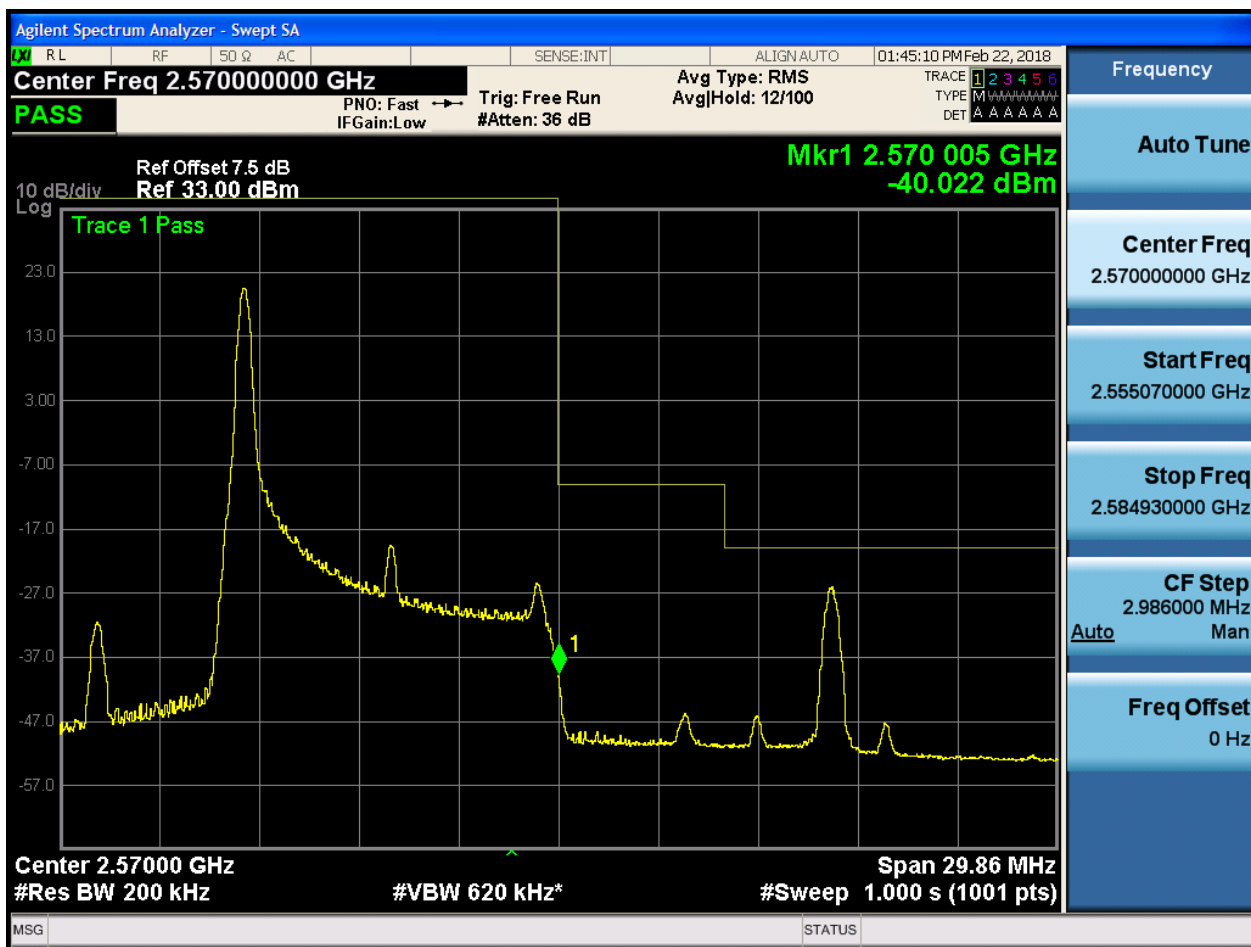
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



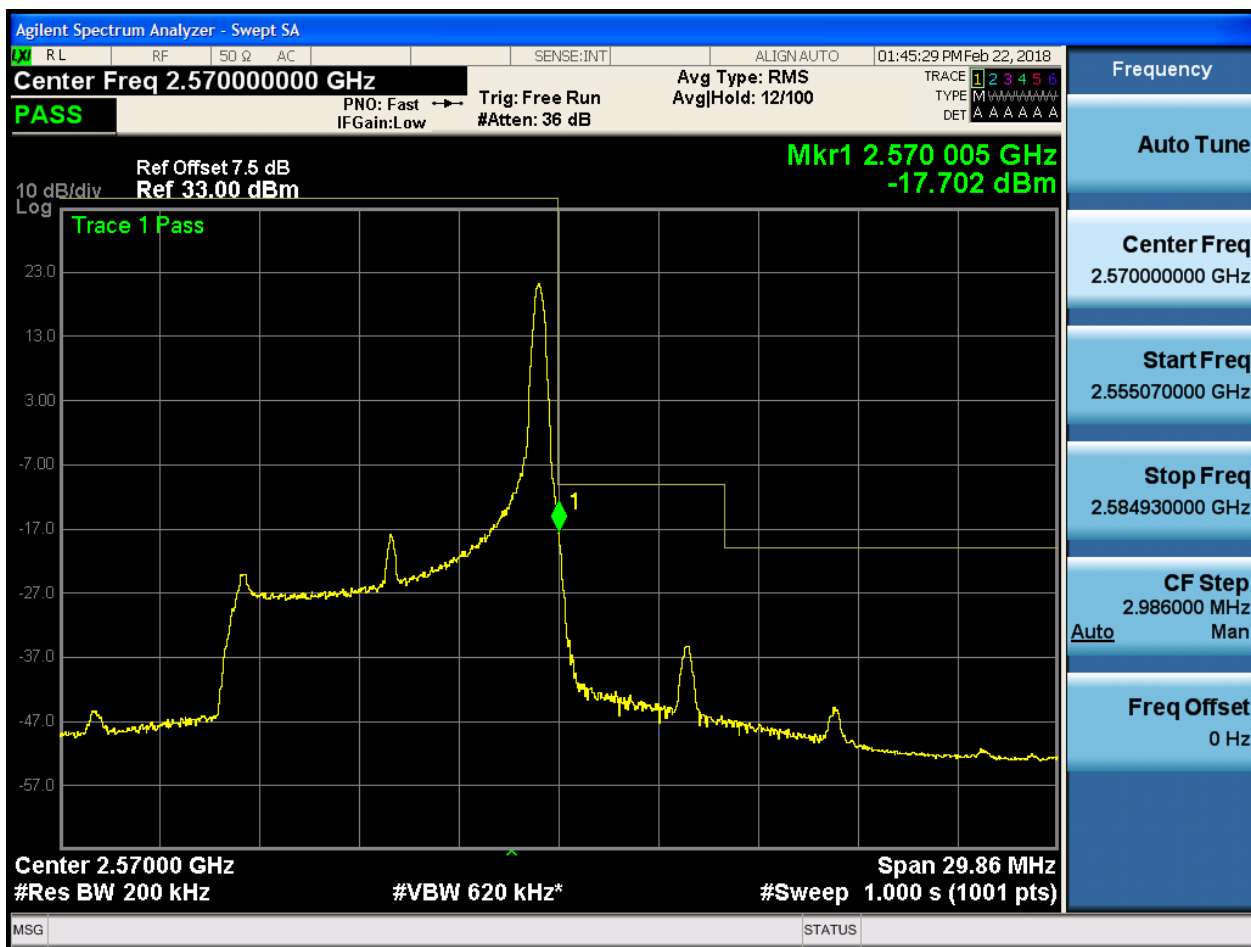
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0



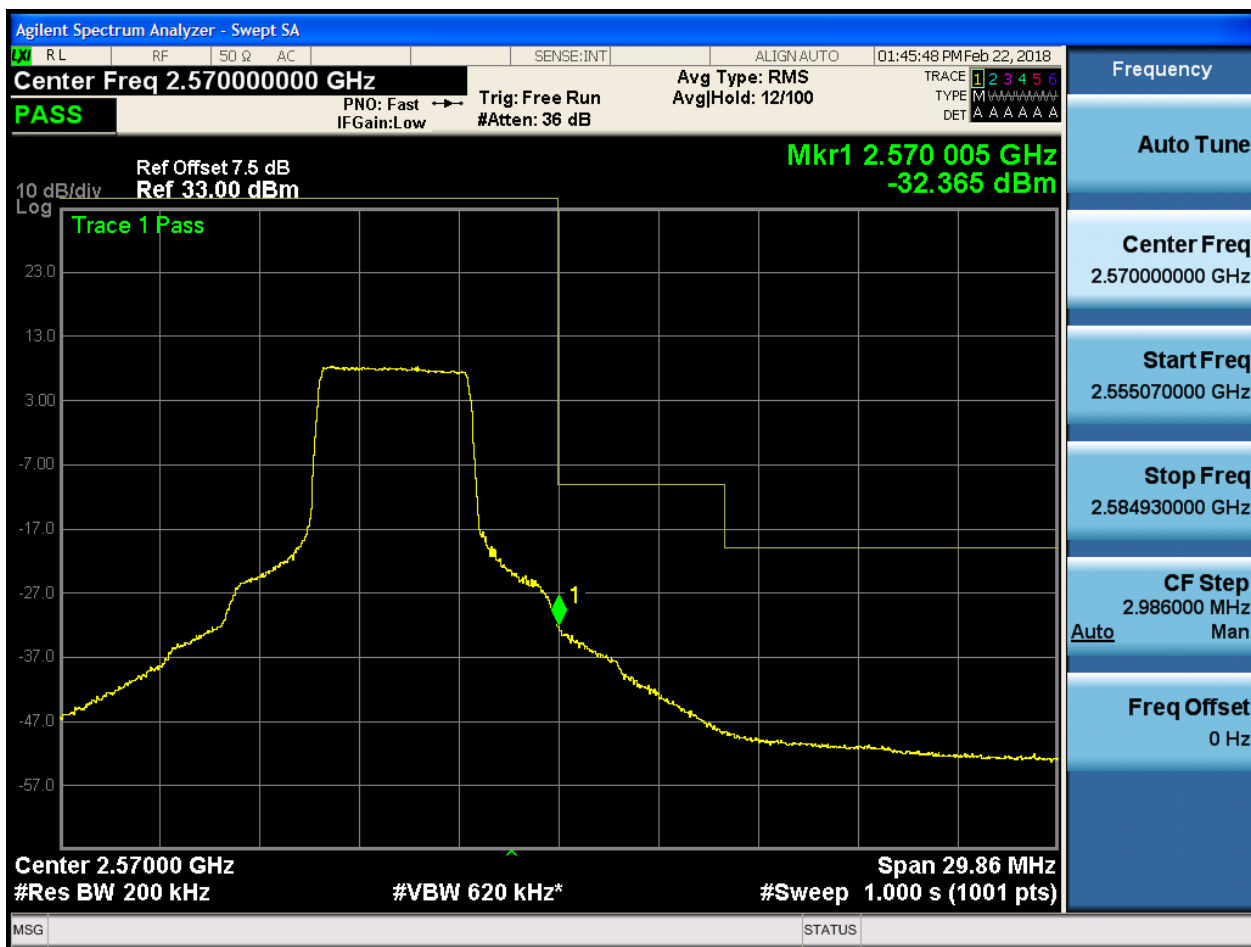


5.1.1.2.2.2 Test RB = RB1#49





5.1.1.2.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 01:46:06 PM Feb 22, 2018

Center Freq 2.57000000 GHz Avg Type: RMS
PNO: Fast IFGain:Low Trig: Free Run AvgHold: 12/100
PASS #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 33.00 dBm

Mkr1 2.570 005 GHz
-29.437 dBm

10 dB/div
Log

Trace 1 Pass

Center 2.57000 GHz Span 29.86 MHz
#Res BW 200 kHz #VBW 620 kHz* #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

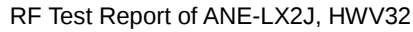
Center Freq
2.570000000 GHz

Start Freq
2.555070000 GHz

Stop Freq
2.584930000 GHz

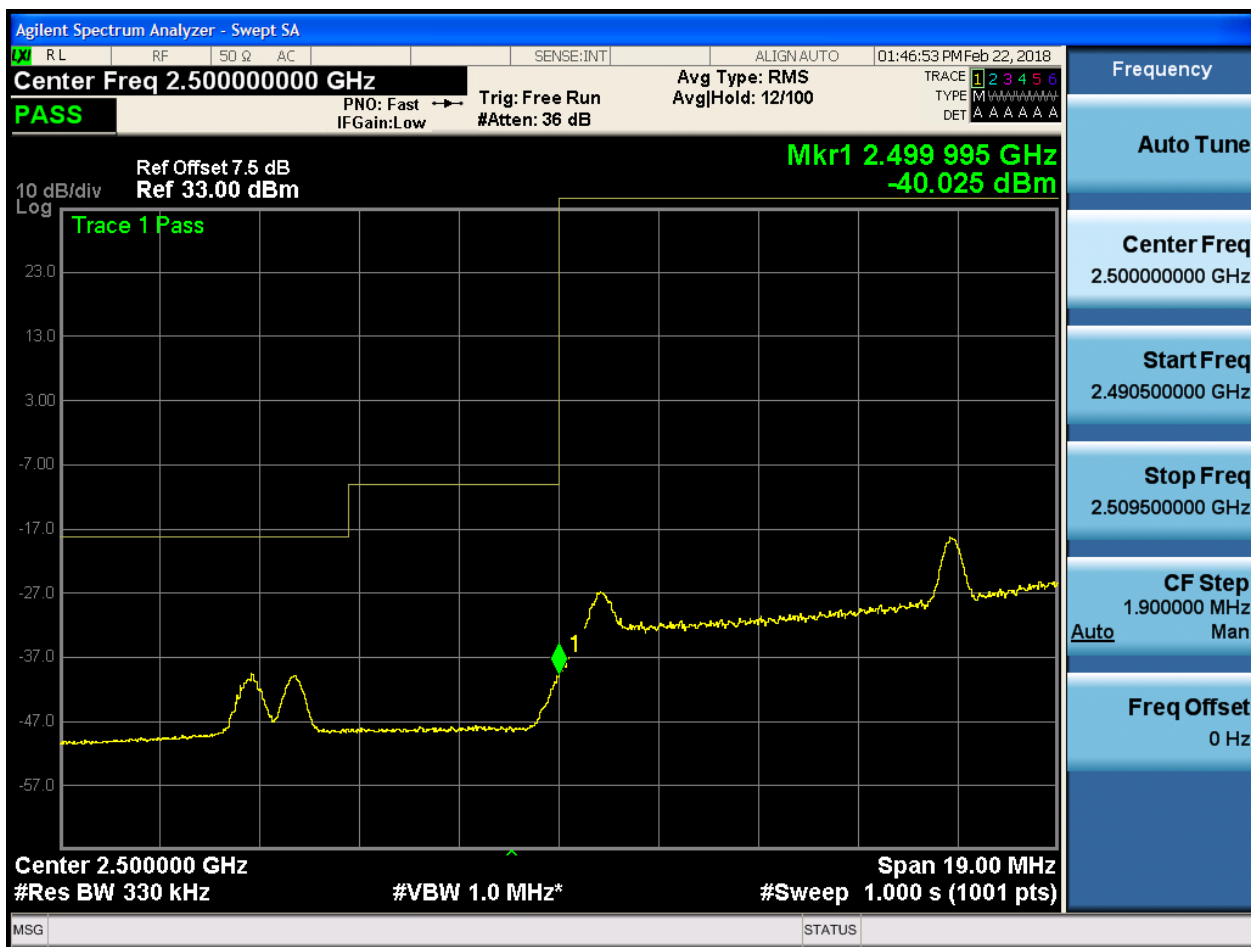
CF Step
2.986000 MHz
Auto Man

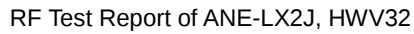
Freq Offset
0 Hz





5.1.1.2.3.1.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

Mkr1 2.499 995 GHz
-27.576 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)

Frequency

Auto Tune

Center Freq
2.500000000 GHz

Start Freq
2.490500000 GHz

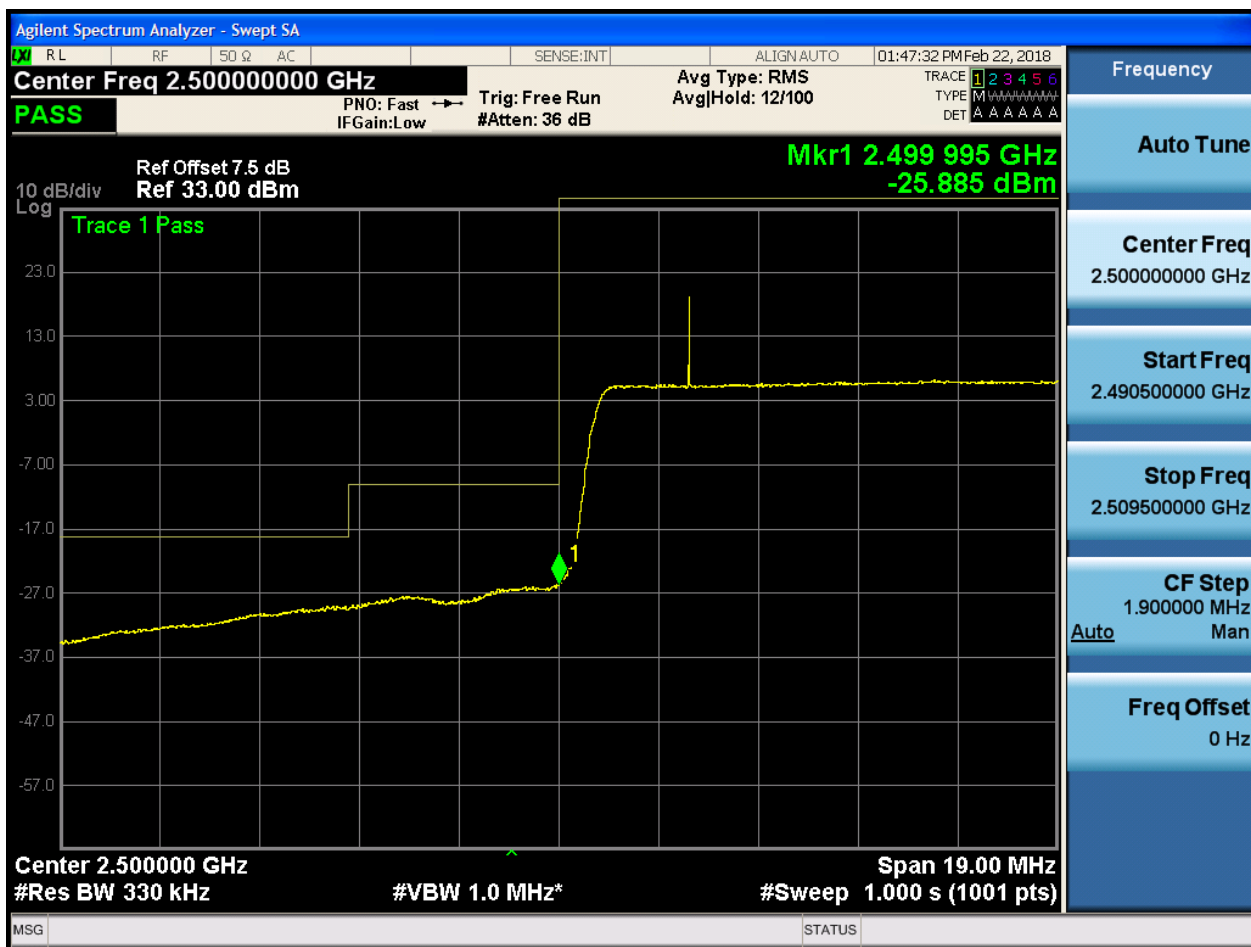
Stop Freq
2.509500000 GHz

CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



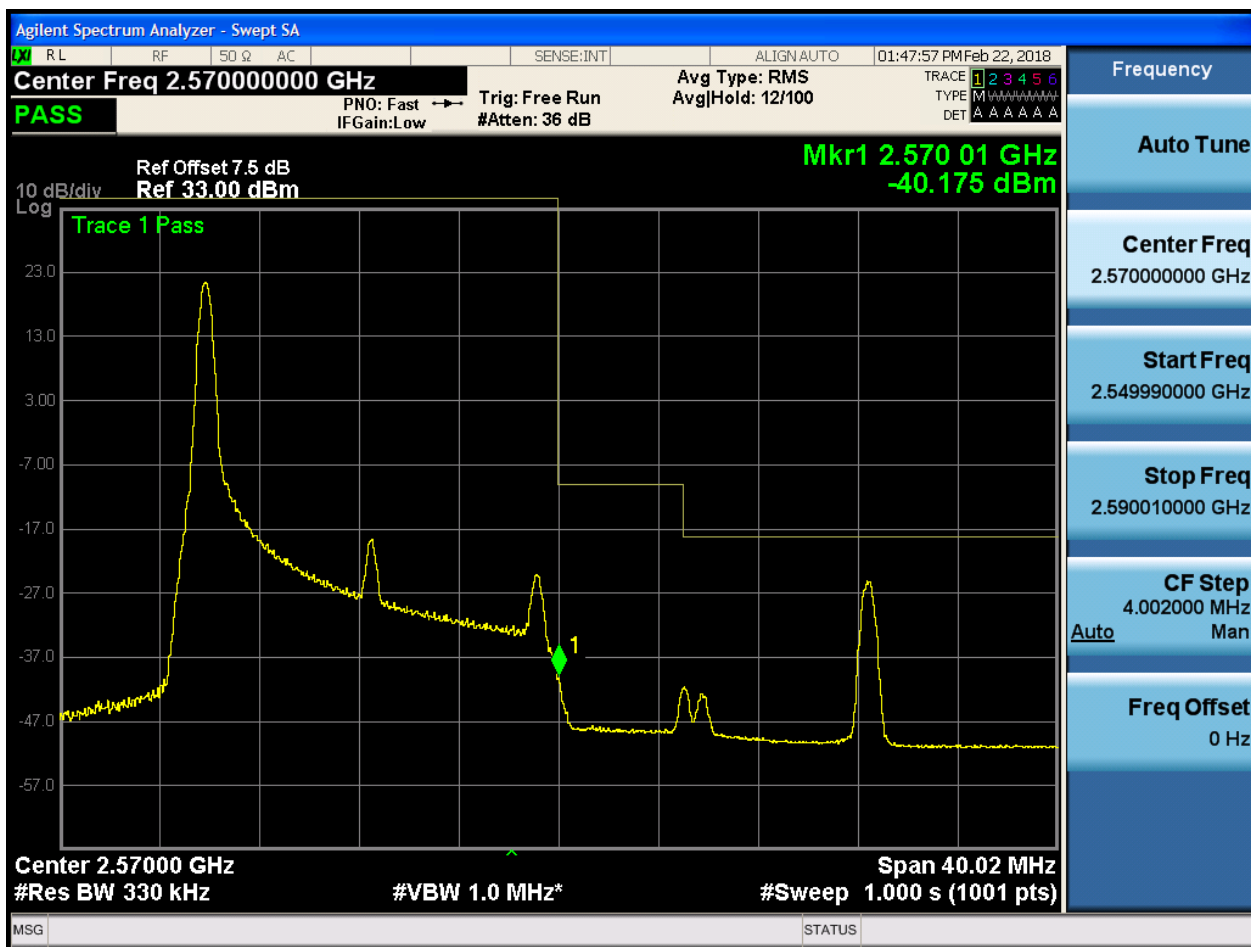
5.1.1.2.3.1.4 Test RB = RB75#0





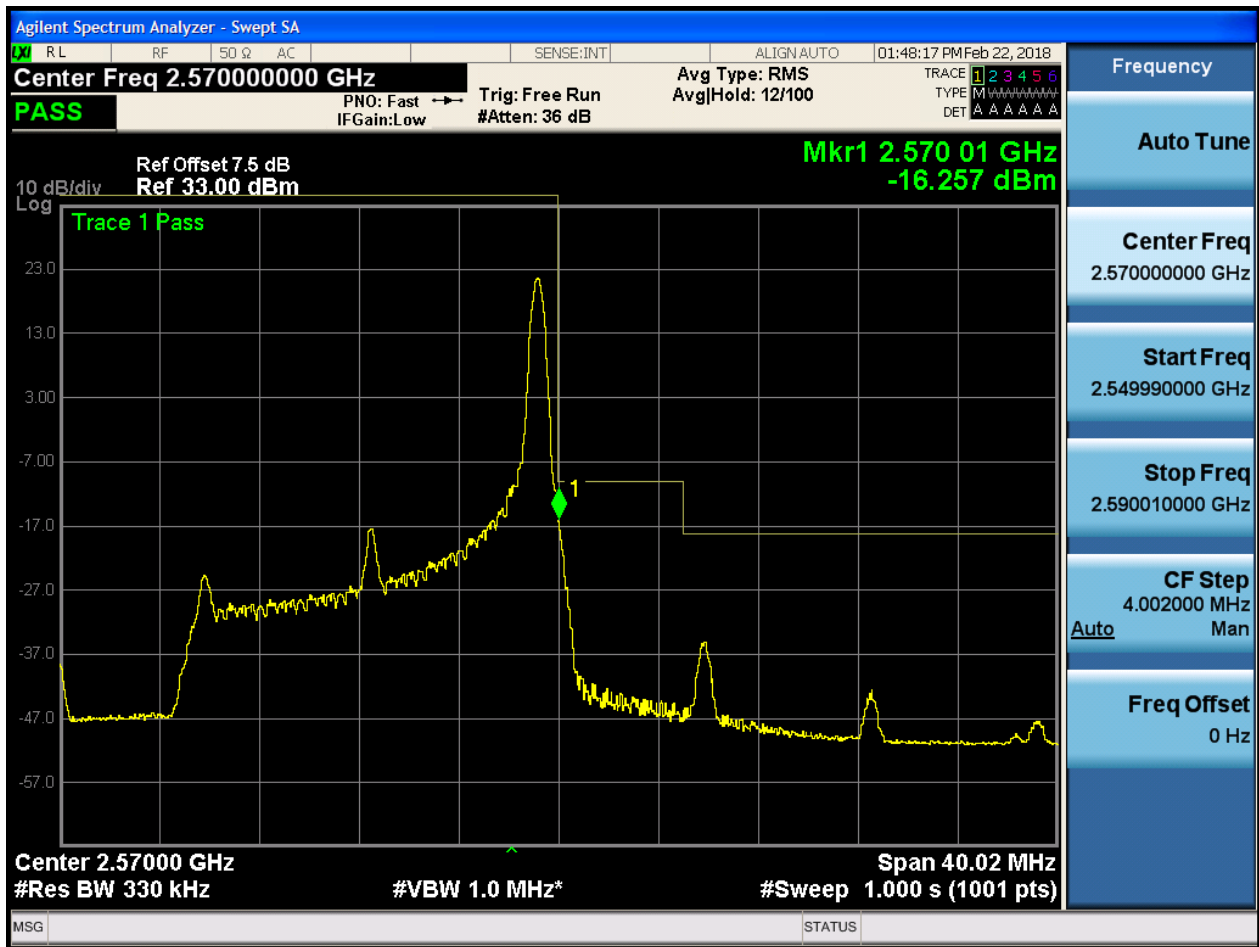
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





5.1.1.2.3.2.2 Test RB = RB1#74





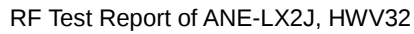
5.1.1.2.3.2.3 Test RB = RB36#18





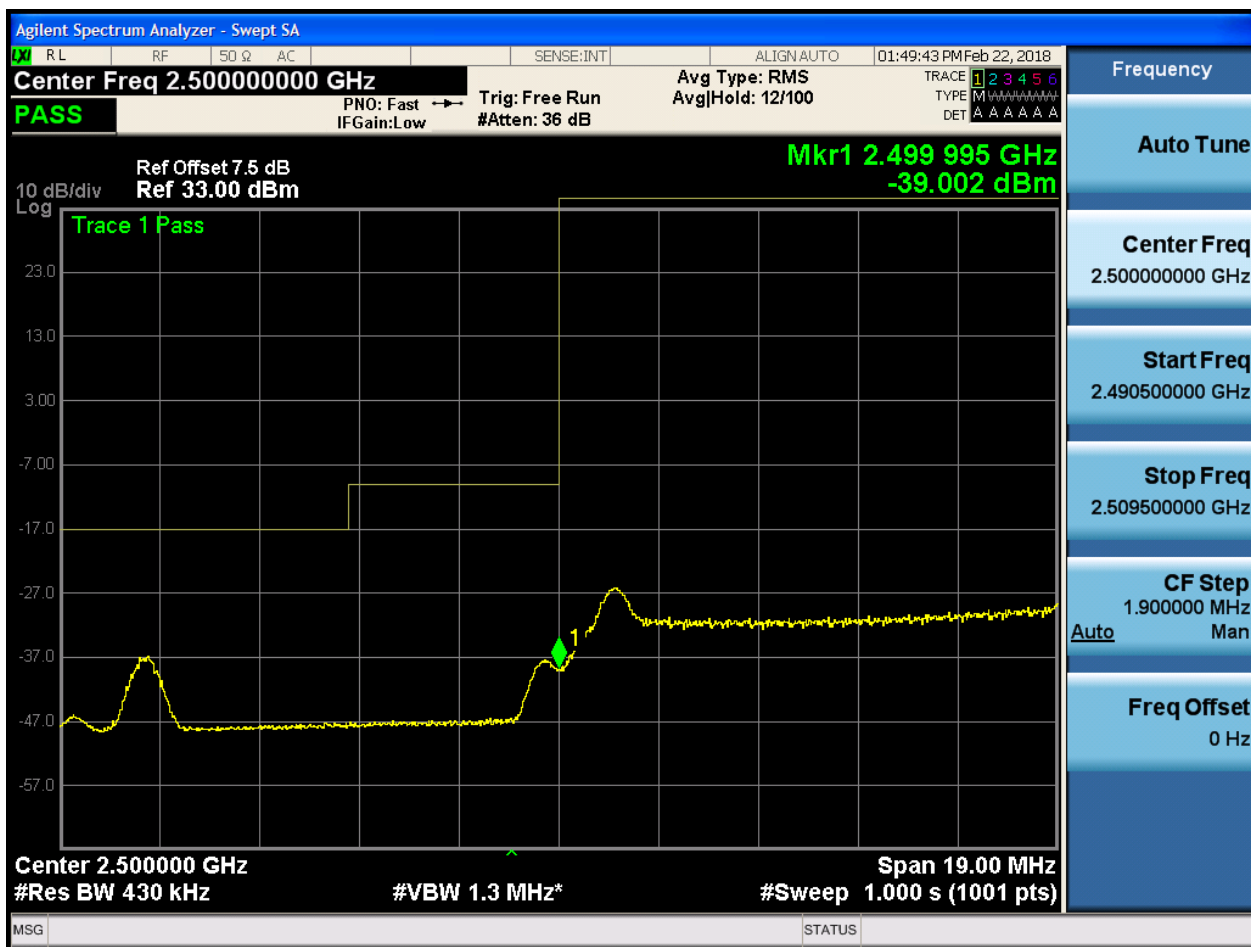
5.1.1.2.3.2.4 Test RB = RB75#0







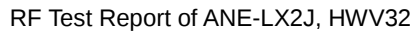
5.1.1.2.4.1.2 Test RB = RB1#99





5.1.1.2.4.1.3 Test RB = RB50#25





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.500000000 GHz

PASS

Ref Offset 7.5 dB
Ref 33.00 dBm

10 dB/div
Log

Trace 1 Pass

Mkr1 2.499 995 GHz
-27.537 dBm

Center 2.500000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz*

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

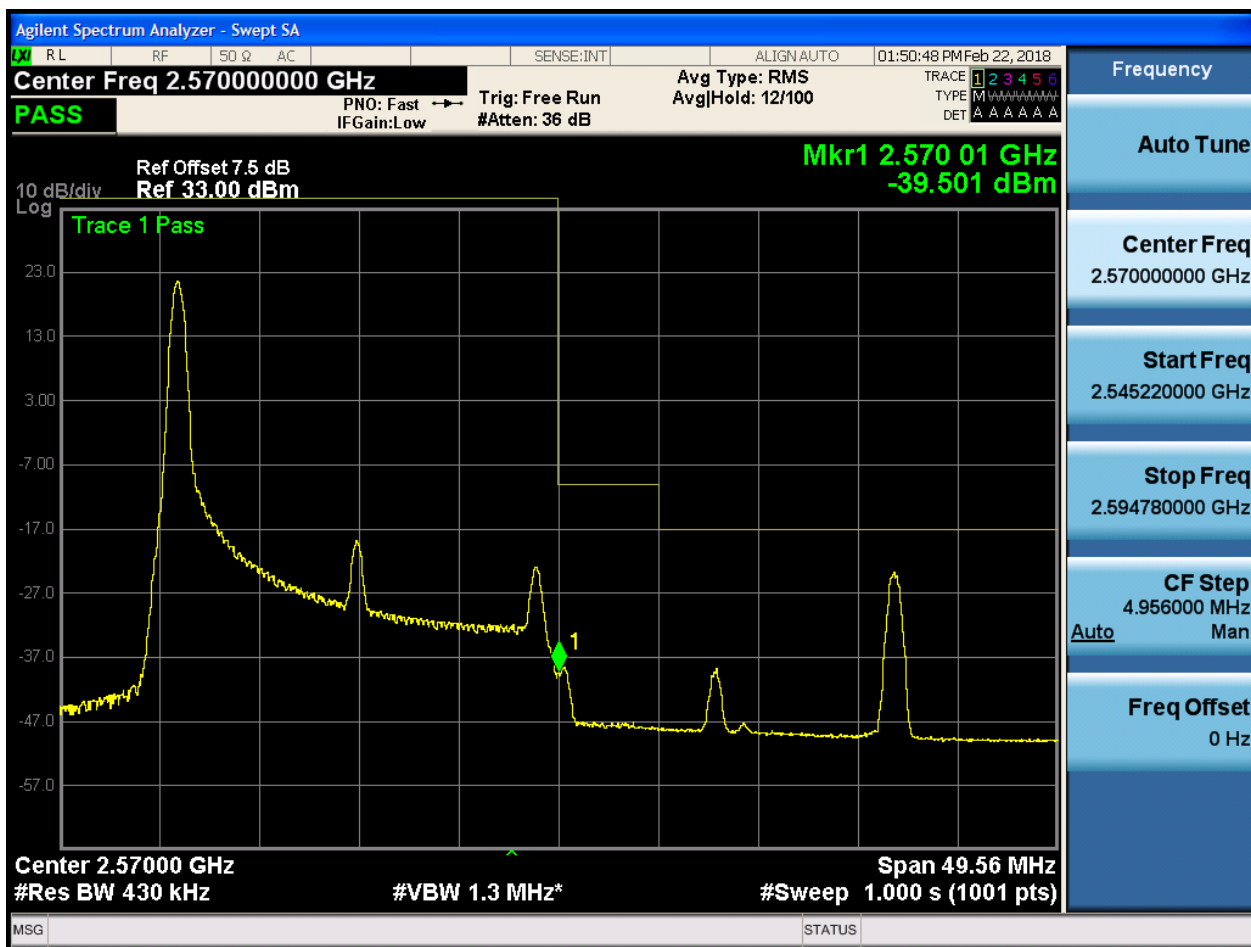
CF Step
1.900000 MHz
Auto Man

Freq Offset
0 Hz



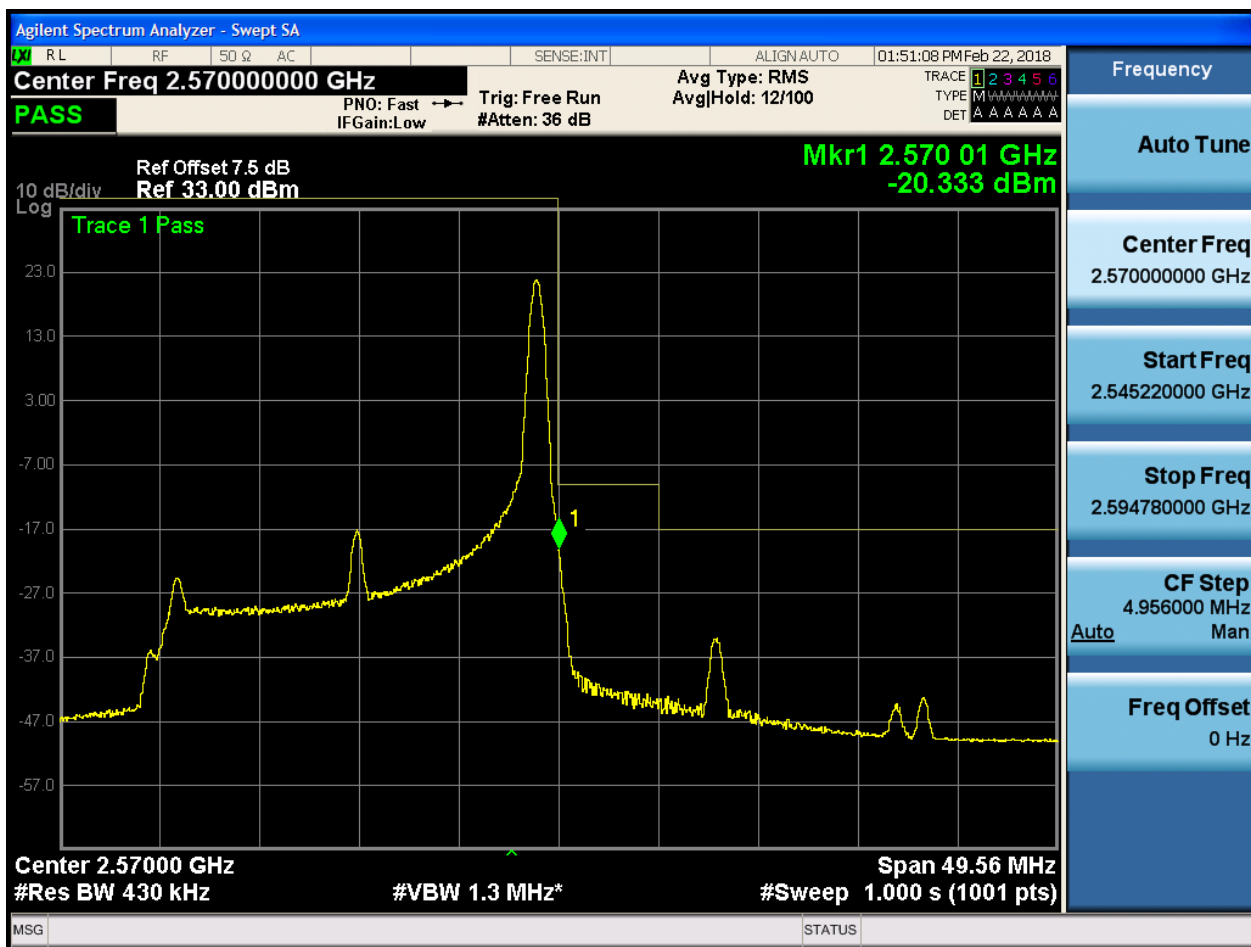
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



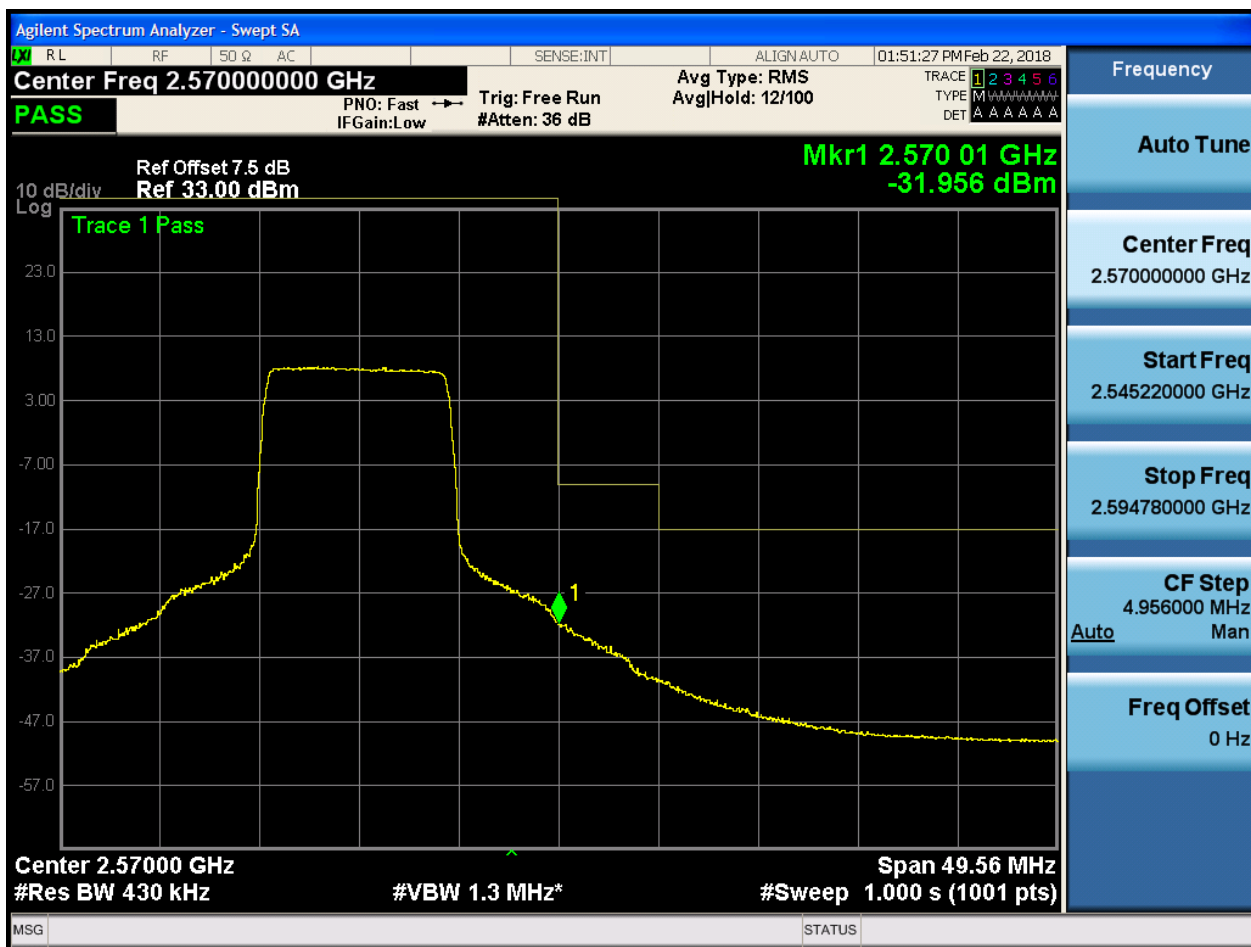


5.1.1.2.4.2.2 Test RB = RB1#99





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

