



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]	ERP [dBm]	Limit [dBm]	Verdict
BAND12	LTE/TM1	1.4	LCH	RB1#0	22.91	22.71	34.7	PASS
				RB1#3	22.97	22.77	34.7	PASS
				RB1#5	22.88	22.68	34.7	PASS
				RB3#0	22.84	22.64	34.7	PASS
				RB3#2	22.87	22.67	34.7	PASS
				RB3#3	22.87	22.67	34.7	PASS
				RB6#0	21.74	21.54	34.7	PASS
			MCH	RB1#0	22.72	22.52	34.7	PASS
				RB1#3	22.96	22.76	34.7	PASS
				RB1#5	22.78	22.58	34.7	PASS
				RB3#0	22.65	22.45	34.7	PASS
				RB3#2	22.93	22.73	34.7	PASS
				RB3#3	22.79	22.59	34.7	PASS
				RB6#0	21.71	21.51	34.7	PASS
			HCH	RB1#0	22.75	22.55	34.7	PASS
				RB1#3	23.08	22.88	34.7	PASS
				RB1#5	22.7	22.5	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#0	22.78	22.58	34.7	PASS
				RB3#2	22.91	22.71	34.7	PASS
				RB3#3	22.75	22.55	34.7	PASS
				RB6#0	21.72	21.52	34.7	PASS
		3	LCH	RB1#0	23.09	22.89	34.7	PASS
				RB1#7	23.19	22.99	34.7	PASS
				RB1#14	23	22.8	34.7	PASS
				RB8#0	21.86	21.66	34.7	PASS
				RB8#4	21.84	21.64	34.7	PASS
				RB8#7	21.91	21.71	34.7	PASS
				RB15#0	21.83	21.63	34.7	PASS
			MCH	RB1#0	22.87	22.67	34.7	PASS
				RB1#7	22.89	22.69	34.7	PASS
				RB1#14	22.71	22.51	34.7	PASS
				RB8#0	21.73	21.53	34.7	PASS
				RB8#4	21.68	21.48	34.7	PASS
				RB8#7	21.8	21.6	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB15#0	21.76	21.56	34.7	PASS
			HCH	RB1#0	22.83	22.63	34.7	PASS
				RB1#7	22.89	22.69	34.7	PASS
				RB1#14	22.87	22.67	34.7	PASS
				RB8#0	21.94	21.74	34.7	PASS
				RB8#4	21.73	21.53	34.7	PASS
				RB8#7	21.76	21.56	34.7	PASS
				RB15#0	21.78	21.58	34.7	PASS
		5	LCH	RB1#0	22.66	22.46	34.7	PASS
				RB1#13	22.98	22.78	34.7	PASS
				RB1#24	22.96	22.76	34.7	PASS
				RB12#0	21.78	21.58	34.7	PASS
				RB12#6	21.8	21.6	34.7	PASS
				RB12#13	21.65	21.45	34.7	PASS
				RB25#0	21.74	21.54	34.7	PASS
			MCH	RB1#0	22.68	22.48	34.7	PASS
				RB1#13	22.97	22.77	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#24	22.66	22.46	34.7	PASS
				RB12#0	21.73	21.53	34.7	PASS
				RB12#6	21.75	21.55	34.7	PASS
				RB12#13	21.8	21.6	34.7	PASS
				RB25#0	21.72	21.52	34.7	PASS
			HCH	RB1#0	22.58	22.38	34.7	PASS
				RB1#13	22.73	22.53	34.7	PASS
				RB1#24	22.34	22.14	34.7	PASS
				RB12#0	21.71	21.51	34.7	PASS
				RB12#6	21.71	21.51	34.7	PASS
				RB12#13	21.72	21.52	34.7	PASS
				RB25#0	21.7	21.5	34.7	PASS
		10	LCH	RB1#0	22.9	22.7	34.7	PASS
				RB1#25	23.04	22.84	34.7	PASS
				RB1#49	22.67	22.47	34.7	PASS
				RB25#0	21.8	21.6	34.7	PASS
				RB25#13	21.72	21.52	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB25#25	21.74	21.54	34.7	PASS
				RB50#0	21.72	21.52	34.7	PASS
			MCH	RB1#0	22.39	22.19	34.7	PASS
				RB1#25	22.79	22.59	34.7	PASS
				RB1#49	22.59	22.39	34.7	PASS
				RB25#0	21.73	21.53	34.7	PASS
				RB25#13	21.73	21.53	34.7	PASS
				RB25#25	21.67	21.47	34.7	PASS
				RB50#0	21.75	21.55	34.7	PASS
			HCH	RB1#0	22.81	22.61	34.7	PASS
				RB1#25	23.06	22.86	34.7	PASS
				RB1#49	22.77	22.57	34.7	PASS
				RB25#0	21.81	21.61	34.7	PASS
				RB25#13	21.8	21.6	34.7	PASS
				RB25#25	21.77	21.57	34.7	PASS
				RB50#0	21.74	21.54	34.7	PASS
	LTE/TM2	1.4	LCH	RB1#0	21.39	21.19	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB1#3	21.69	21.49	34.7	PASS
				RB1#5	21.44	21.24	34.7	PASS
				RB3#0	21.62	21.42	34.7	PASS
				RB3#2	21.82	21.62	34.7	PASS
				RB3#3	21.81	21.61	34.7	PASS
				RB6#0	20.76	20.56	34.7	PASS
			MCH	RB1#0	21.04	20.84	34.7	PASS
				RB1#3	21.05	20.85	34.7	PASS
				RB1#5	21.22	21.02	34.7	PASS
				RB3#0	21.6	21.4	34.7	PASS
				RB3#2	21.52	21.32	34.7	PASS
				RB3#3	21.47	21.27	34.7	PASS
				RB6#0	20.52	20.32	34.7	PASS
			HCH	RB1#0	21.5	21.3	34.7	PASS
				RB1#3	21.46	21.26	34.7	PASS
				RB1#5	21.3	21.1	34.7	PASS
				RB3#0	21.95	21.75	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB3#2	21.94	21.74	34.7	PASS
				RB3#3	21.9	21.7	34.7	PASS
				RB6#0	20.7	20.5	34.7	PASS
		3	LCH	RB1#0	22.07	21.87	34.7	PASS
				RB1#7	21.91	21.71	34.7	PASS
				RB1#14	21.04	20.84	34.7	PASS
				RB8#0	20.72	20.52	34.7	PASS
				RB8#4	20.62	20.42	34.7	PASS
				RB8#7	20.7	20.5	34.7	PASS
				RB15#0	20.65	20.45	34.7	PASS
			MCH	RB1#0	21.96	21.76	34.7	PASS
				RB1#7	22.07	21.87	34.7	PASS
				RB1#14	21.84	21.64	34.7	PASS
				RB8#0	20.71	20.51	34.7	PASS
				RB8#4	20.55	20.35	34.7	PASS
				RB8#7	20.58	20.38	34.7	PASS
				RB15#0	20.73	20.53	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.1	21.9	34.7	PASS
				RB1#7	22.21	22.01	34.7	PASS
				RB1#14	21.6	21.4	34.7	PASS
				RB8#0	21	20.8	34.7	PASS
				RB8#4	20.95	20.75	34.7	PASS
				RB8#7	20.97	20.77	34.7	PASS
				RB15#0	21	20.8	34.7	PASS
		5	LCH	RB1#0	21.46	21.26	34.7	PASS
				RB1#13	21.57	21.37	34.7	PASS
				RB1#24	21.35	21.15	34.7	PASS
				RB12#0	20.58	20.38	34.7	PASS
				RB12#6	20.62	20.42	34.7	PASS
				RB12#13	20.48	20.28	34.7	PASS
				RB25#0	20.77	20.57	34.7	PASS
			MCH	RB1#0	21.22	21.02	34.7	PASS
				RB1#13	21.09	20.89	34.7	PASS
				RB1#24	21.04	20.84	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB12#0	20.56	20.36	34.7	PASS
				RB12#6	20.76	20.56	34.7	PASS
				RB12#13	20.63	20.43	34.7	PASS
				RB25#0	20.86	20.66	34.7	PASS
			HCH	RB1#0	21.84	21.64	34.7	PASS
				RB1#13	21.77	21.57	34.7	PASS
				RB1#24	21.61	21.41	34.7	PASS
				RB12#0	20.72	20.52	34.7	PASS
				RB12#6	20.75	20.55	34.7	PASS
				RB12#13	20.66	20.46	34.7	PASS
				RB25#0	20.68	20.48	34.7	PASS
		10	LCH	RB1#0	21.75	21.55	34.7	PASS
				RB1#25	21.85	21.65	34.7	PASS
				RB1#49	21.63	21.43	34.7	PASS
				RB25#0	20.66	20.46	34.7	PASS
				RB25#13	20.69	20.49	34.7	PASS
				RB25#25	20.61	20.41	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured [dBm]	ERP [dBm]	Limit [dBm]	Verdict
				RB50#0	20.71	20.51	34.7	PASS
				RB1#0	21.43	21.23	34.7	PASS
			MCH	RB1#25	22.14	21.94	34.7	PASS
				RB1#49	21.55	21.35	34.7	PASS
				RB25#0	20.88	20.68	34.7	PASS
				RB25#13	20.82	20.62	34.7	PASS
				RB25#25	20.86	20.66	34.7	PASS
				RB50#0	20.7	20.5	34.7	PASS
			HCH	RB1#0	21.79	21.59	34.7	PASS
				RB1#25	21.56	21.36	34.7	PASS
				RB1#49	21.55	21.35	34.7	PASS
				RB25#0	20.9	20.7	34.7	PASS
				RB25#13	20.96	20.76	34.7	PASS
				RB25#25	20.99	20.79	34.7	PASS
				RB50#0	20.85	20.65	34.7	PASS

Note1:

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

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



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

b, SGP=Signal Generator Level

Note2:

SET Span=1.5*OBW

SET RBW=1%of the OBW, not to exceed 1MHz

SET VBW>= 3*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
BAND12	LTE/TM1	1.4	LCH	RB1#0	3.84	13	PASS
				RB1#3	3.85	13	PASS
				RB1#5	3.92	13	PASS
				RB3#0	4.27	13	PASS
				RB3#2	4.24	13	PASS
				RB3#3	4.24	13	PASS
				RB6#0	5.48	13	PASS
			MCH	RB1#0	3.99	13	PASS
				RB1#3	3.98	13	PASS
				RB1#5	4.08	13	PASS
				RB3#0	4.27	13	PASS
				RB3#2	4.25	13	PASS
				RB3#3	4.28	13	PASS
				RB6#0	5.31	13	PASS
			HCH	RB1#0	3.75	13	PASS
				RB1#3	3.66	13	PASS
				RB1#5	3.82	13	PASS
				RB3#0	4.02	13	PASS
				RB3#2	3.85	13	PASS
				RB3#3	3.99	13	PASS
				RB6#0	5.07	13	PASS
		3	LCH	RB1#0	4.03	13	PASS
				RB1#7	3.91	13	PASS
				RB1#14	4.12	13	PASS
				RB8#0	4.91	13	PASS
				RB8#4	4.79	13	PASS
				RB8#7	4.97	13	PASS
				RB15#0	5.21	13	PASS
			MCH	RB1#0	3.99	13	PASS
				RB1#7	3.96	13	PASS
				RB1#14	4.21	13	PASS
				RB8#0	4.85	13	PASS
				RB8#4	4.88	13	PASS
				RB8#7	4.95	13	PASS
				RB15#0	5.53	13	PASS
			HCH	RB1#0	3.84	13	PASS
				RB1#7	3.51	13	PASS
				RB1#14	3.72	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	4.62	13	PASS
				RB8#4	4.6	13	PASS
				RB8#7	4.55	13	PASS
				RB15#0	5.05	13	PASS
			LCH	RB1#0	3.92	13	PASS
				RB1#13	3.86	13	PASS
				RB1#24	4	13	PASS
				RB12#0	4.81	13	PASS
				RB12#6	4.67	13	PASS
				RB12#13	4.78	13	PASS
				RB25#0	5.1	13	PASS
		5	MCH	RB1#0	4.01	13	PASS
				RB1#13	3.91	13	PASS
				RB1#24	4.12	13	PASS
				RB12#0	4.79	13	PASS
				RB12#6	4.67	13	PASS
				RB12#13	4.81	13	PASS
				RB25#0	5.27	13	PASS
			HCH	RB1#0	4.18	13	PASS
				RB1#13	3.86	13	PASS
				RB1#24	4	13	PASS
				RB12#0	4.78	13	PASS
				RB12#6	4.6	13	PASS
				RB12#13	4.63	13	PASS
				RB25#0	5.25	13	PASS
		10	LCH	RB1#0	4.02	13	PASS
				RB1#25	3.82	13	PASS
				RB1#49	4.12	13	PASS
				RB25#0	4.81	13	PASS
				RB25#13	4.75	13	PASS
				RB25#25	4.8	13	PASS
				RB50#0	5.46	13	PASS
			MCH	RB1#0	4.15	13	PASS
				RB1#25	4.04	13	PASS
				RB1#49	4.13	13	PASS
				RB25#0	4.84	13	PASS
				RB25#13	4.85	13	PASS
				RB25#25	4.94	13	PASS
				RB50#0	5.79	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
	LTE/TM2		HCH	RB1#0	3.99	13	PASS
				RB1#25	3.87	13	PASS
				RB1#49	3.86	13	PASS
				RB25#0	4.9	13	PASS
				RB25#13	4.89	13	PASS
				RB25#25	4.83	13	PASS
				RB50#0	5	13	PASS
		1.4	LCH	RB1#0	5.04	13	PASS
				RB1#3	5.02	13	PASS
				RB1#5	5.11	13	PASS
				RB3#0	5.28	13	PASS
				RB3#2	5.06	13	PASS
				RB3#3	5.12	13	PASS
				RB6#0	5.75	13	PASS
			MCH	RB1#0	5.06	13	PASS
				RB1#3	5	13	PASS
				RB1#5	5.05	13	PASS
				RB3#0	5.09	13	PASS
				RB3#2	5	13	PASS
				RB3#3	5.11	13	PASS
				RB6#0	5.87	13	PASS
			HCH	RB1#0	4.66	13	PASS
				RB1#3	4.67	13	PASS
				RB1#5	4.87	13	PASS
				RB3#0	4.82	13	PASS
				RB3#2	4.72	13	PASS
				RB3#3	4.9	13	PASS
				RB6#0	5.98	13	PASS
		3	LCH	RB1#0	4.66	13	PASS
				RB1#7	4.77	13	PASS
				RB1#14	4.9	13	PASS
				RB8#0	5.72	13	PASS
				RB8#4	5.71	13	PASS
				RB8#7	5.81	13	PASS
				RB15#0	6.26	13	PASS
			MCH	RB1#0	4.7	13	PASS
				RB1#7	4.72	13	PASS
				RB1#14	4.87	13	PASS
				RB8#0	5.63	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	5.63	13	PASS
				RB8#7	5.6	13	PASS
				RB15#0	5.99	13	PASS
			HCH	RB1#0	4.85	13	PASS
				RB1#7	4.64	13	PASS
				RB1#14	4.76	13	PASS
				RB8#0	5.59	13	PASS
				RB8#4	5.38	13	PASS
				RB8#7	5.42	13	PASS
				RB15#0	6.07	13	PASS
		5	LCH	RB1#0	5.06	13	PASS
				RB1#13	5.09	13	PASS
				RB1#24	5.15	13	PASS
				RB12#0	5.62	13	PASS
				RB12#6	5.59	13	PASS
				RB12#13	5.78	13	PASS
				RB25#0	6.06	13	PASS
			MCH	RB1#0	5.08	13	PASS
				RB1#13	5.04	13	PASS
				RB1#24	5.23	13	PASS
				RB12#0	5.71	13	PASS
				RB12#6	5.63	13	PASS
				RB12#13	5.71	13	PASS
				RB25#0	6.43	13	PASS
			HCH	RB1#0	4.72	13	PASS
				RB1#13	4.45	13	PASS
				RB1#24	4.54	13	PASS
				RB12#0	5.63	13	PASS
				RB12#6	5.48	13	PASS
				RB12#13	5.49	13	PASS
				RB25#0	6.13	13	PASS
		10	LCH	RB1#0	5.09	13	PASS
				RB1#25	4.83	13	PASS
				RB1#49	5.29	13	PASS
				RB25#0	5.85	13	PASS
				RB25#13	5.74	13	PASS
				RB25#25	5.87	13	PASS
				RB50#0	6.15	13	PASS
			MCH	RB1#0	5.23	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#25	5.1	13	PASS
				RB1#49	5.11	13	PASS
				RB25#0	5.63	13	PASS
				RB25#13	5.7	13	PASS
				RB25#25	5.74	13	PASS
				RB50#0	6.16	13	PASS
			HCH	RB1#0	4.94	13	PASS
				RB1#25	4.94	13	PASS
				RB1#49	4.78	13	PASS
				RB25#0	5.75	13	PASS
				RB25#13	5.73	13	PASS
				RB25#25	5.69	13	PASS
				RB50#0	5.93	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

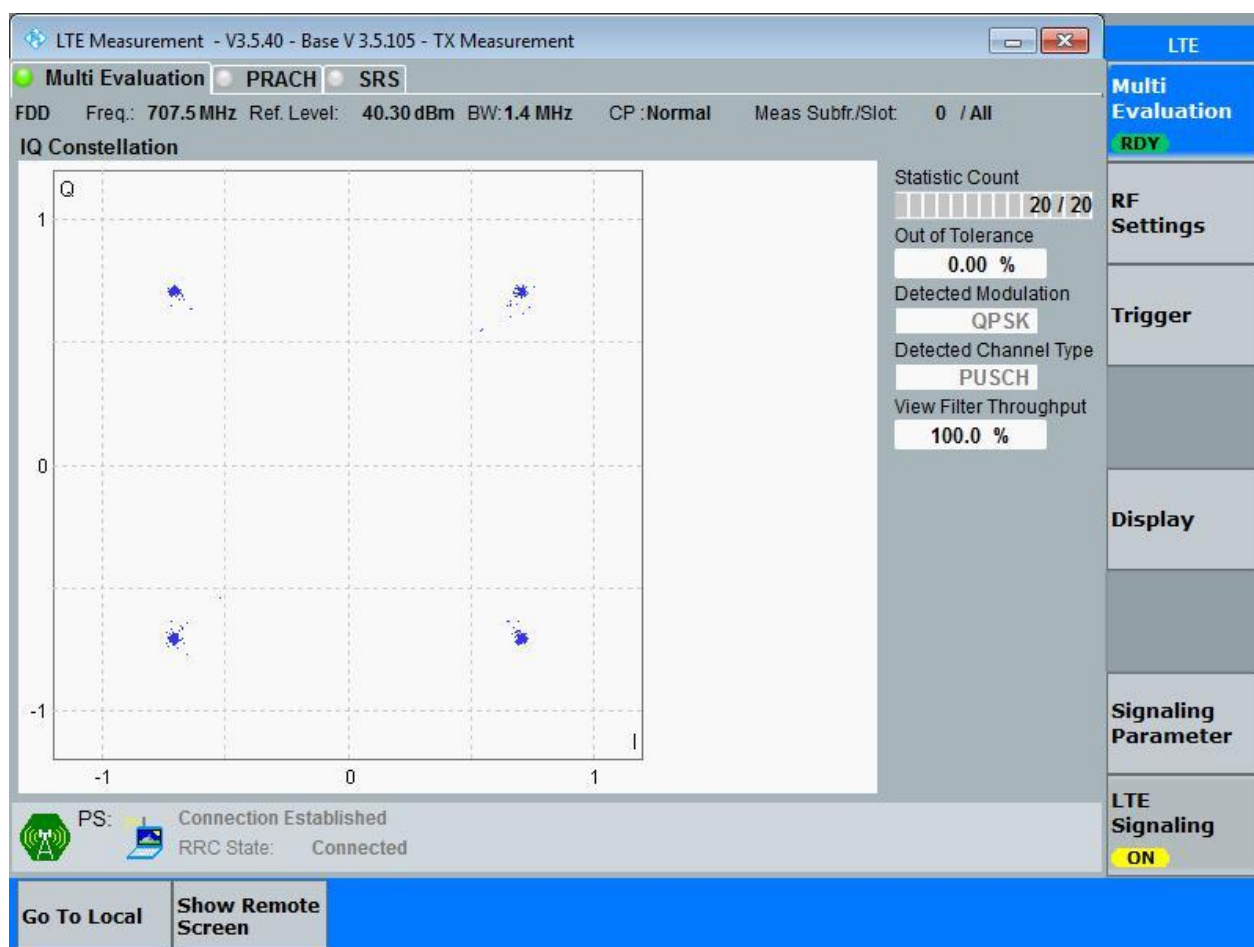
3.1.1 Test Band = BAND12

3.2.2.1 Test Mode = LTE/TM1

3.2.2.1.1 Test Bandwidth = 1.4

3.2.2.1.1.1 Test Channel = MCH

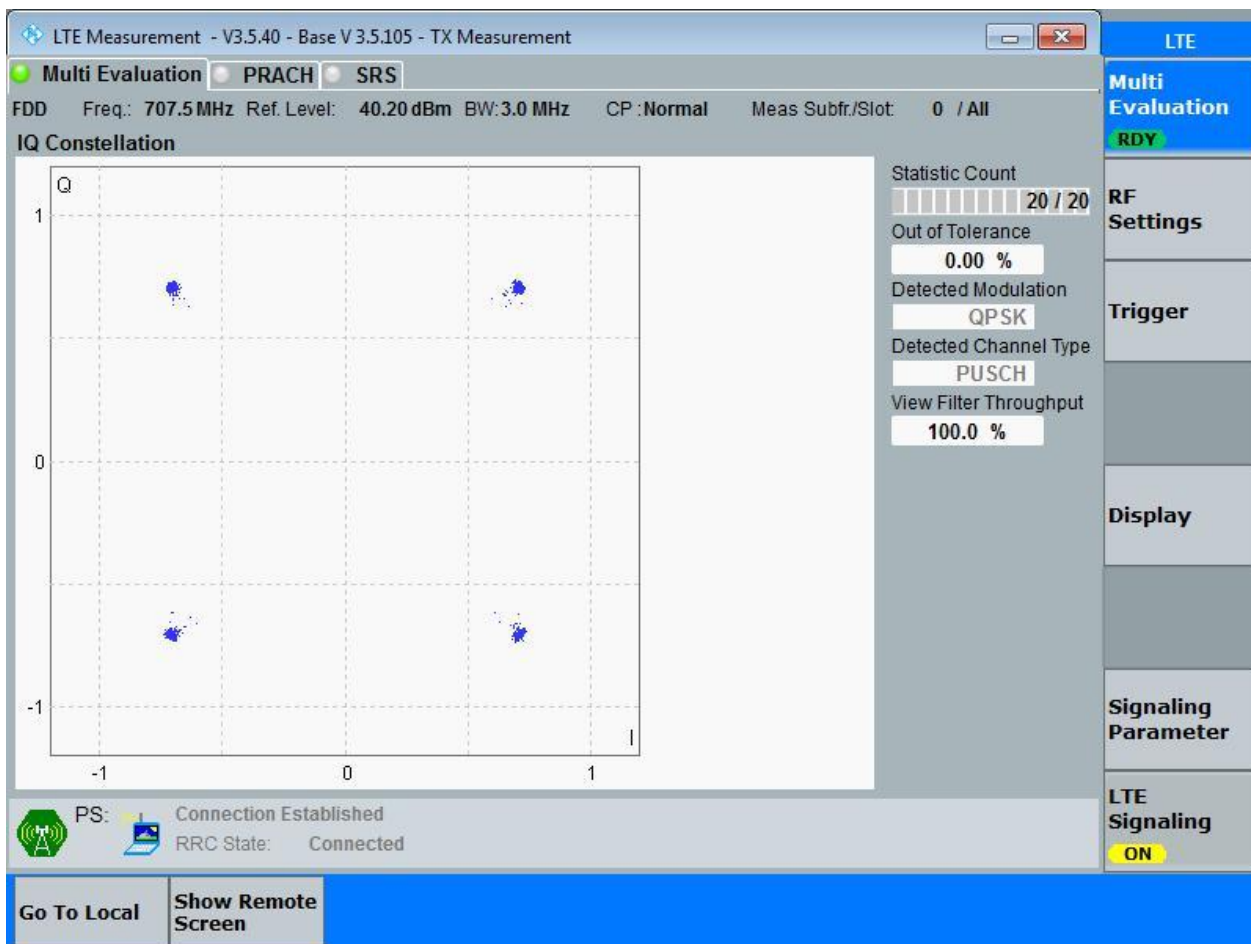
3.2.2.1.1.1.1 Test RB = RB6#0



3.2.2.1.2 Test Bandwidth = 3

3.2.2.1.2.1 Test Channel = MCH

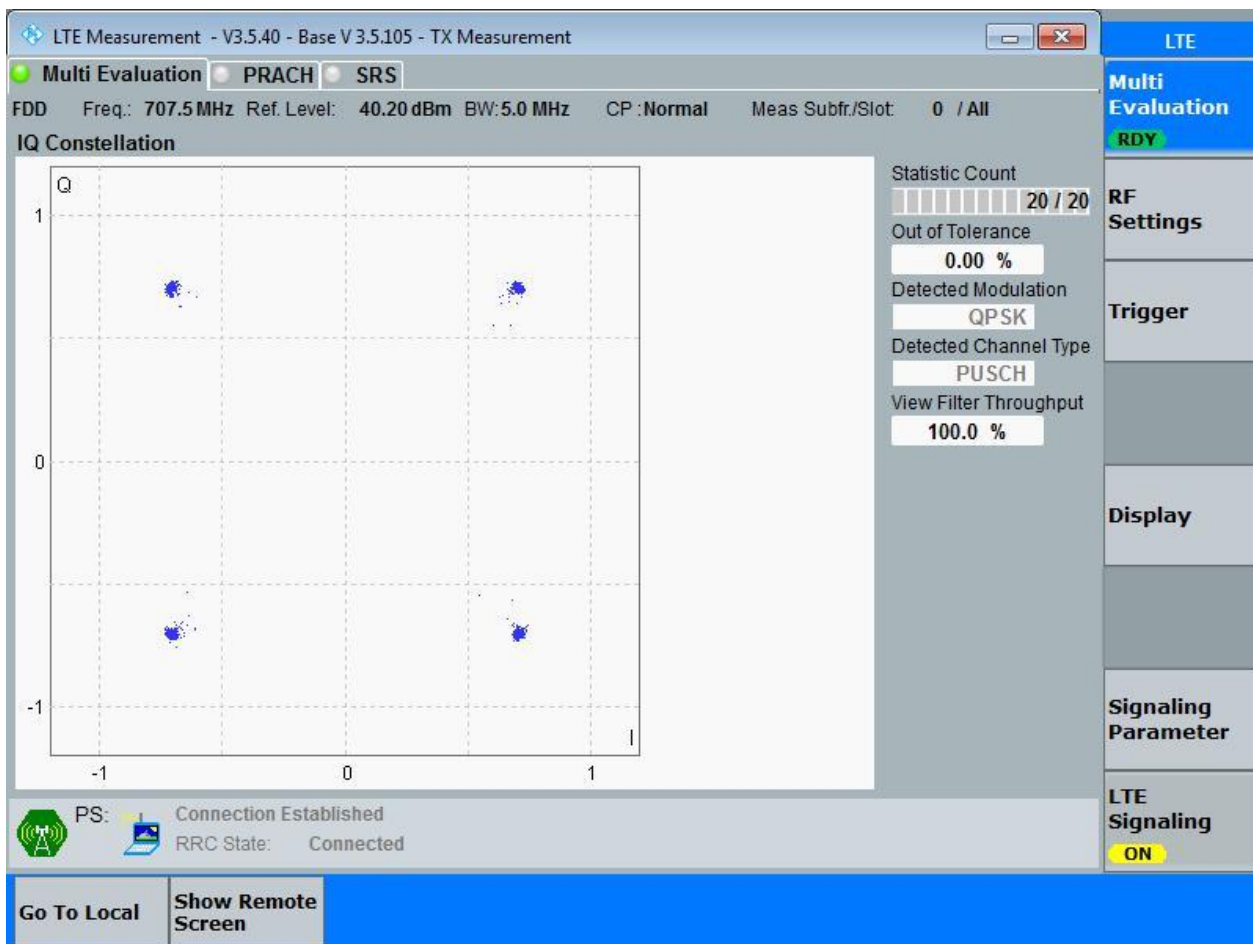
3.2.2.1.2.1.1 Test RB = RB15#0



3.2.2.1.3 Test Bandwidth = 5

3.2.2.1.3.1 Test Channel = MCH

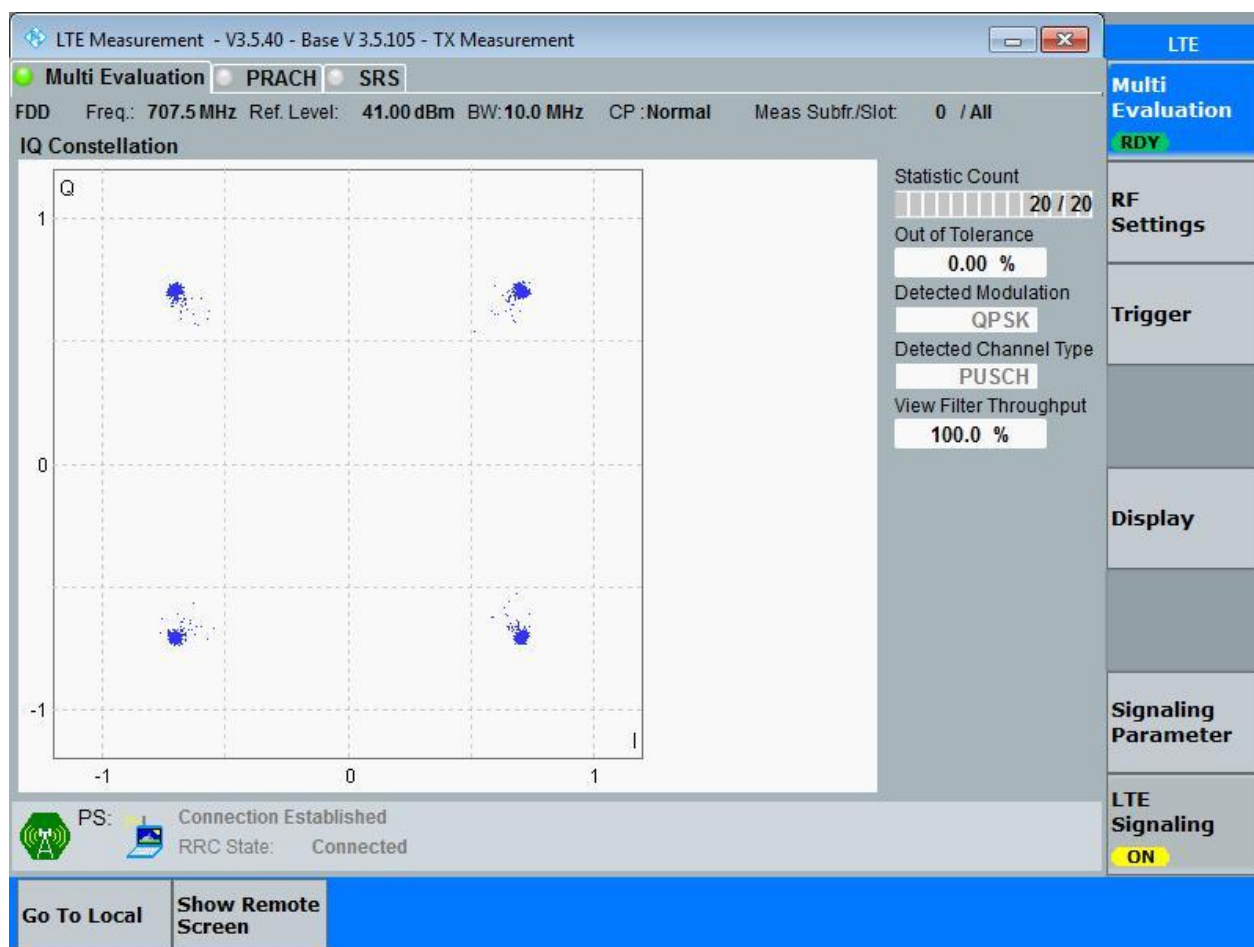
3.2.2.1.3.1.1 Test RB = RB25#0



3.2.2.1.4 Test Bandwidth = 10

3.2.2.1.4.1 Test Channel = MCH

3.2.2.1.4.1.1 Test RB = RB50#0

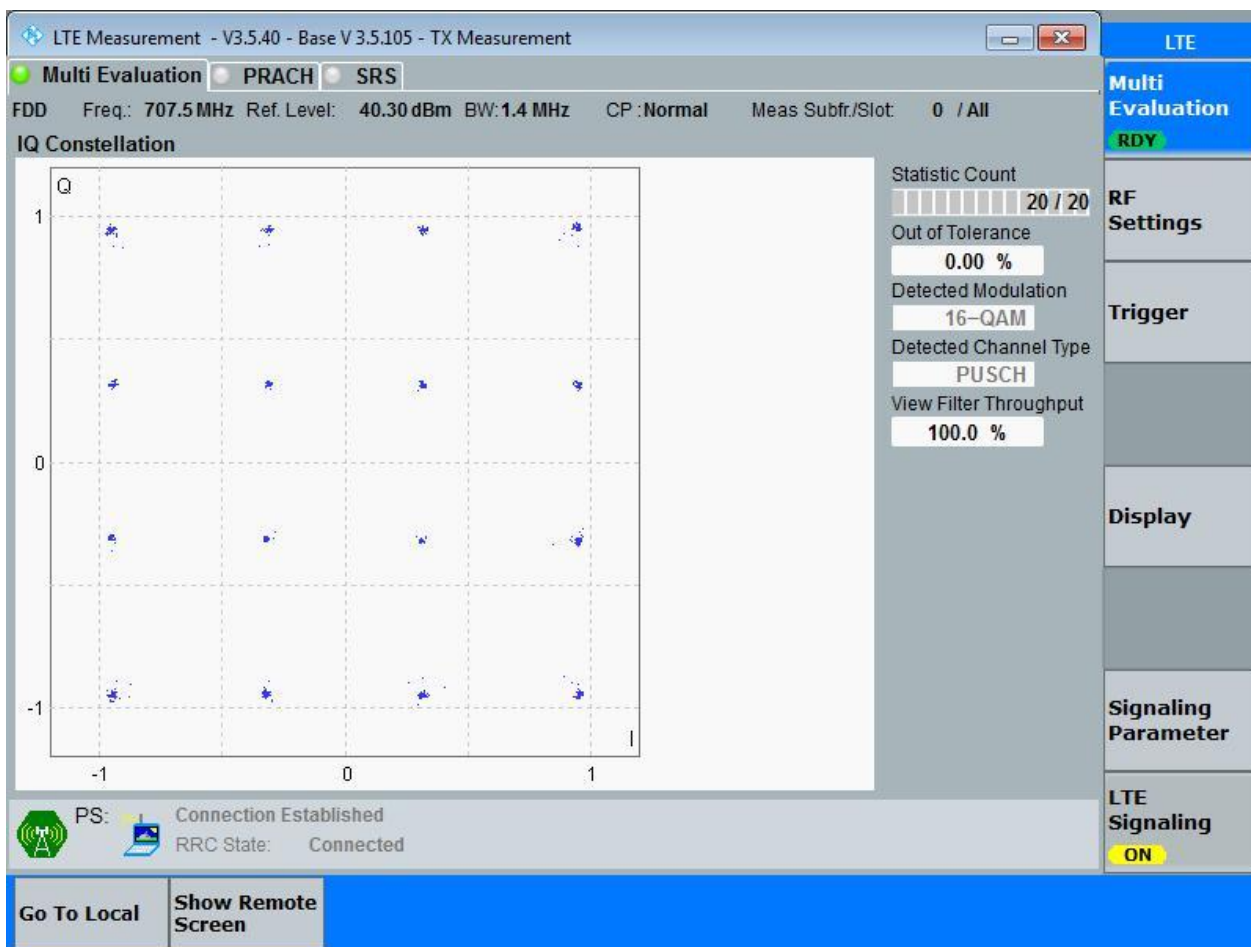


3.2.2.2 Test Mode = LTE/TM2

3.2.2.2.1 Test Bandwidth = 1.4

3.2.2.2.1.1 Test Channel = MCH

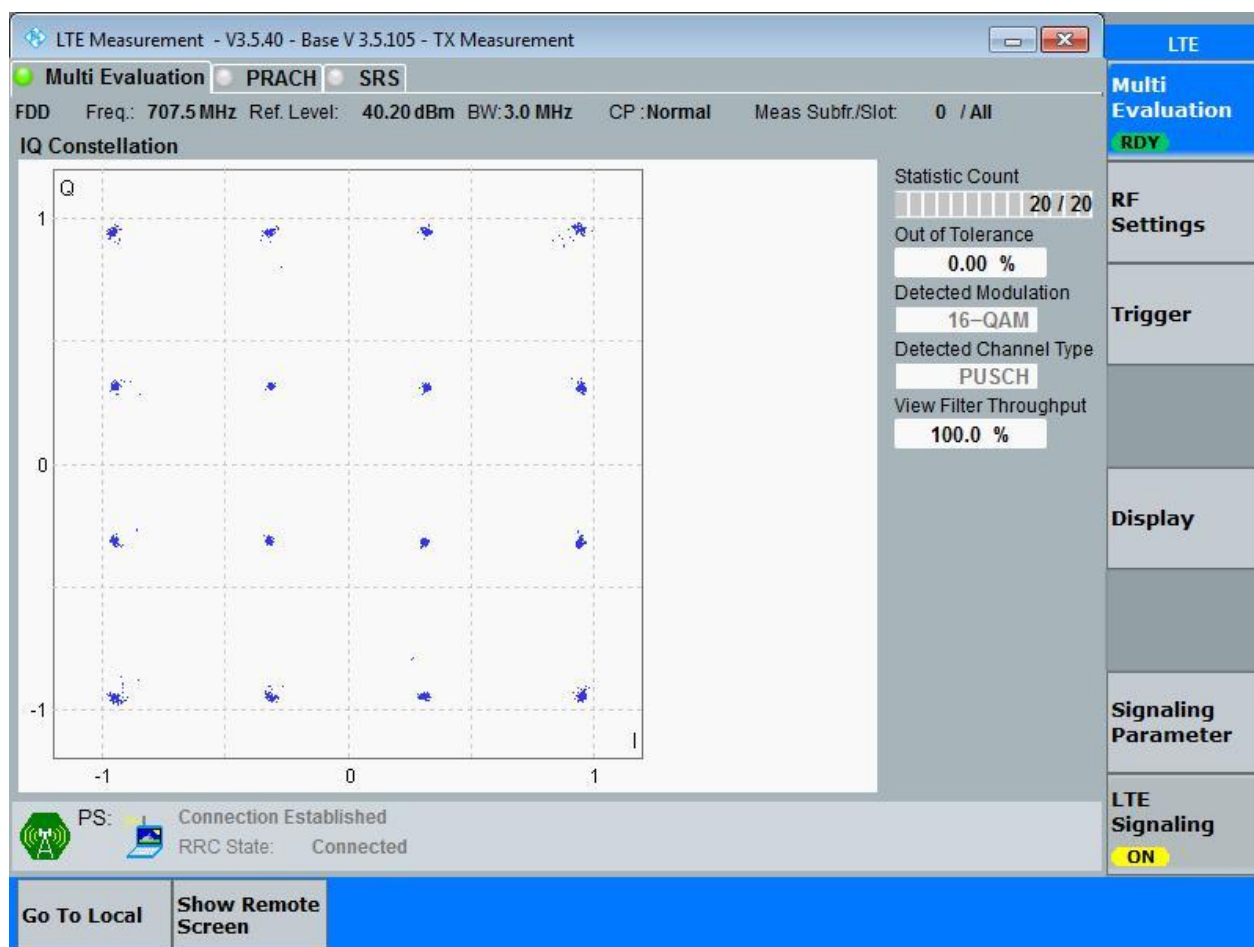
3.2.2.2.1.1.1 Test RB = RB6#0



3.2.2.2.2 Test Bandwidth = 3

3.2.2.2.2.1 Test Channel = MCH

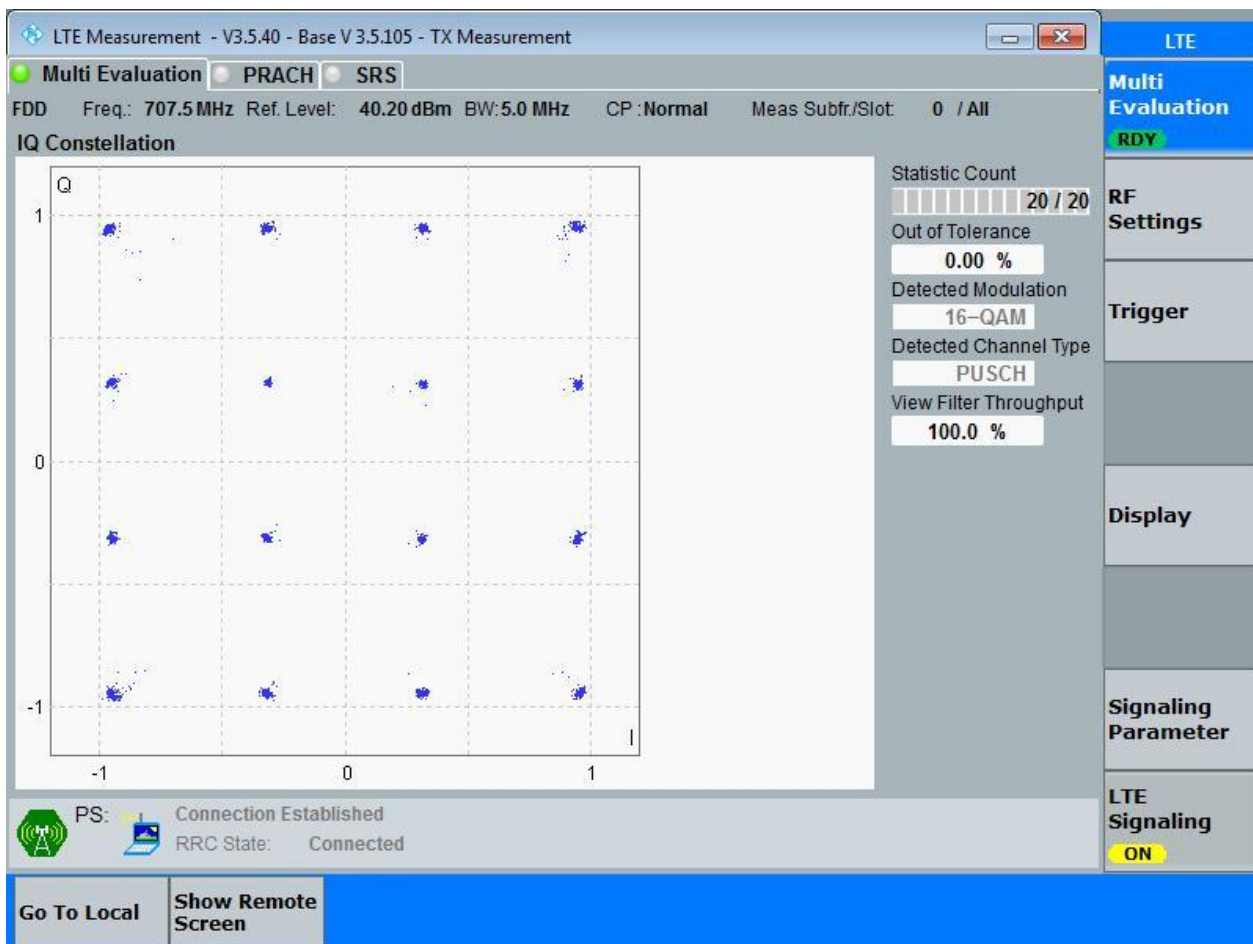
3.2.2.2.2.1.1 Test RB = RB15#0



3.2.2.2.3 Test Bandwidth = 5

3.2.2.2.3.1 Test Channel = MCH

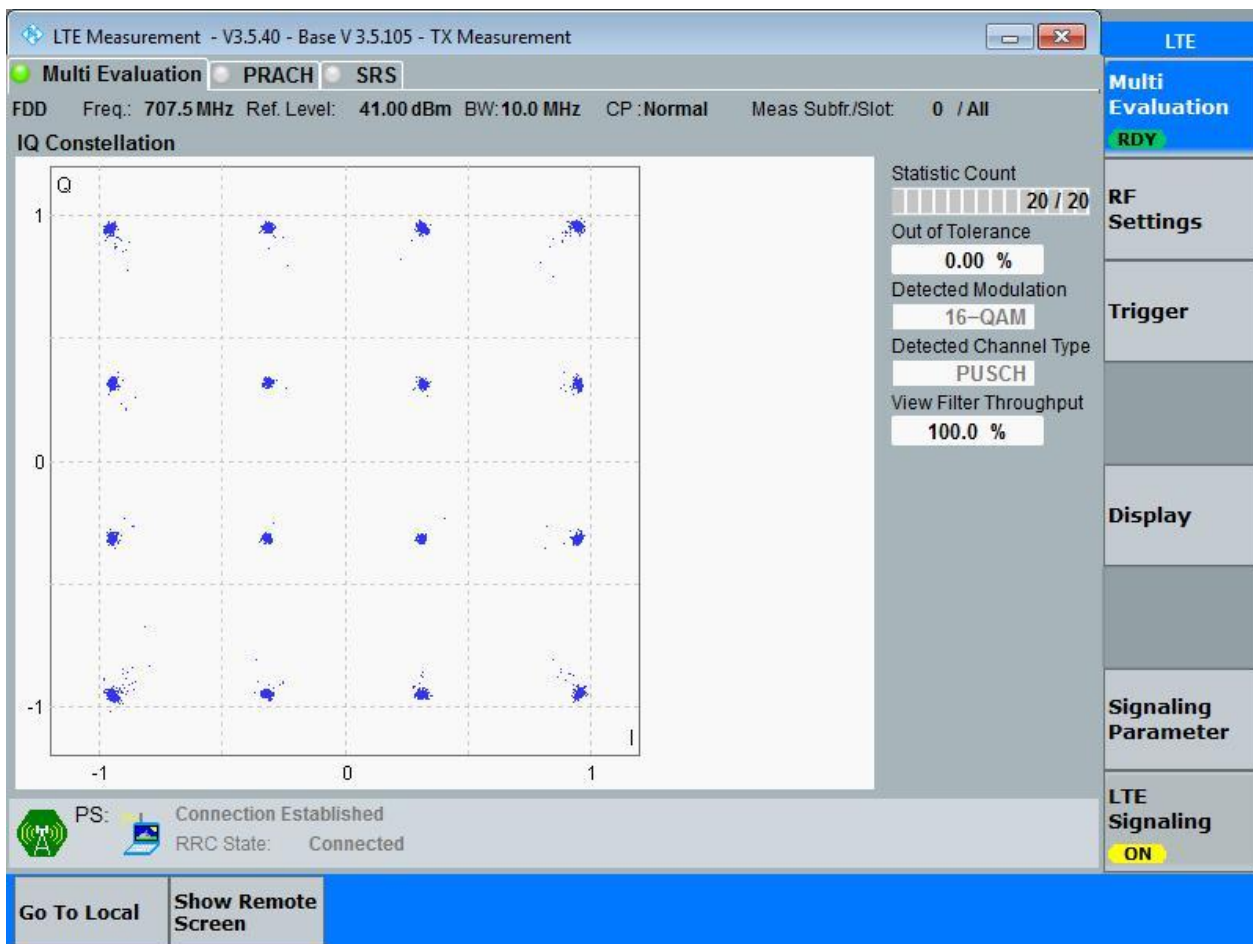
3.2.2.2.3.1.1 Test RB = RB25#0



3.2.2.2.4 Test Bandwidth = 10

3.2.2.2.4.1 Test Channel = MCH

3.2.2.2.4.1.1 Test RB = RB50#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
BAND12	LTE/TM1	1.4	LCH	RB6#0	1.09	1.29	Pass
			MCH	RB6#0	1.09	1.30	Pass
			HCH	RB6#0	1.09	1.29	Pass
		3	LCH	RB15#0	2.70	3.00	Pass
			MCH	RB15#0	2.70	2.98	Pass
			HCH	RB15#0	2.71	2.99	Pass
		5	LCH	RB25#0	4.50	4.98	Pass
			MCH	RB25#0	4.50	4.98	Pass
			HCH	RB25#0	4.50	4.98	Pass
		10	LCH	RB50#0	8.97	9.86	Pass
			MCH	RB50#0	8.96	9.85	Pass
			HCH	RB50#0	8.95	9.89	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.10	1.31	Pass
			MCH	RB6#0	1.10	1.31	Pass
			HCH	RB6#0	1.09	1.30	Pass
		3	LCH	RB15#0	2.70	3.00	Pass
			MCH	RB15#0	2.70	3.00	Pass
			HCH	RB15#0	2.70	3.00	Pass
		5	LCH	RB25#0	4.51	4.99	Pass
			MCH	RB25#0	4.51	5.02	Pass
			HCH	RB25#0	4.51	5.01	Pass
		10	LCH	RB50#0	8.98	9.93	Pass
			MCH	RB50#0	8.98	9.96	Pass
			HCH	RB50#0	8.98	9.87	Pass



Part II - Test Plots

4.1 For LTE

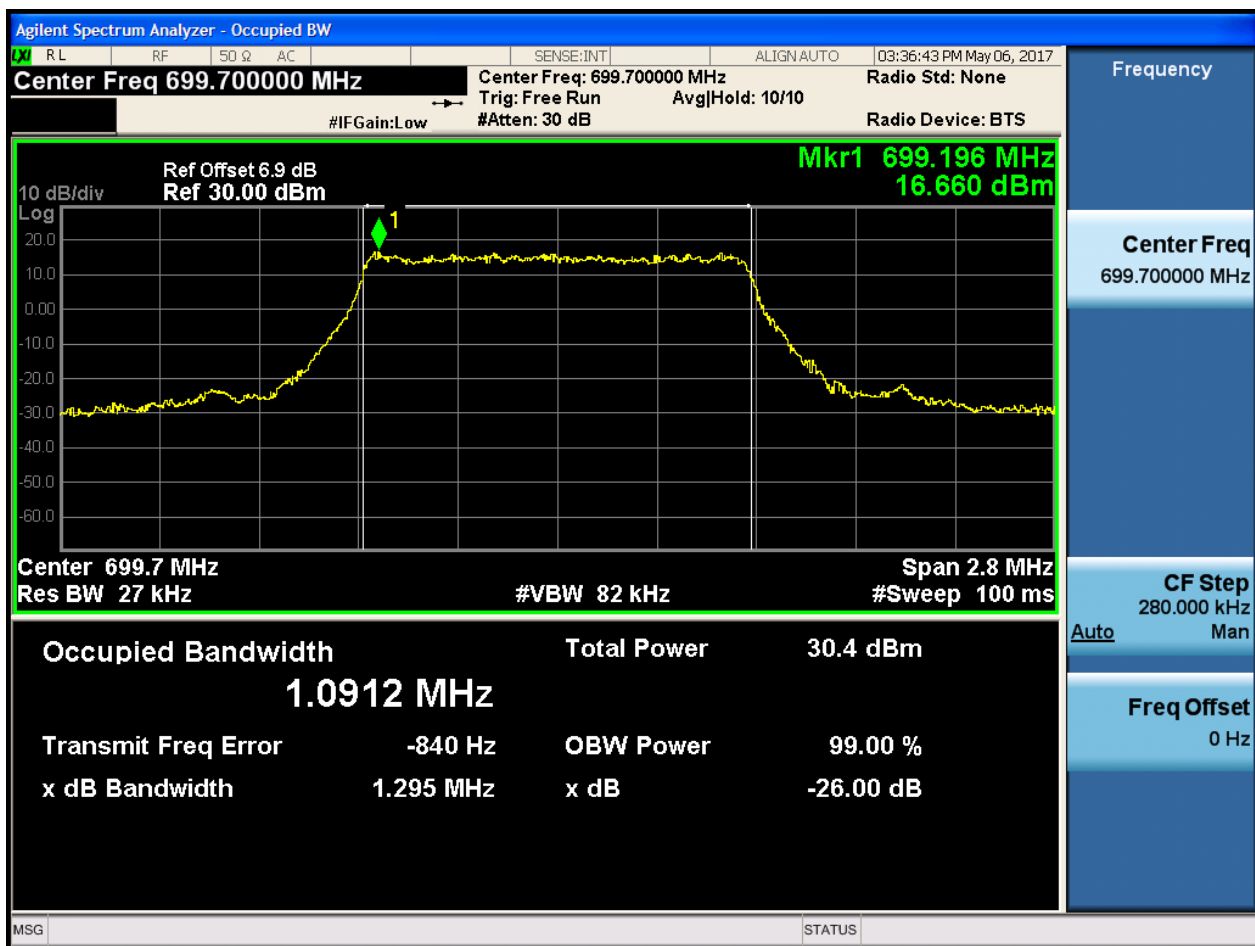
4.1.1 Test Band = BAND12

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 1.4

4.1.1.1.1.1 Test Channel = LCH

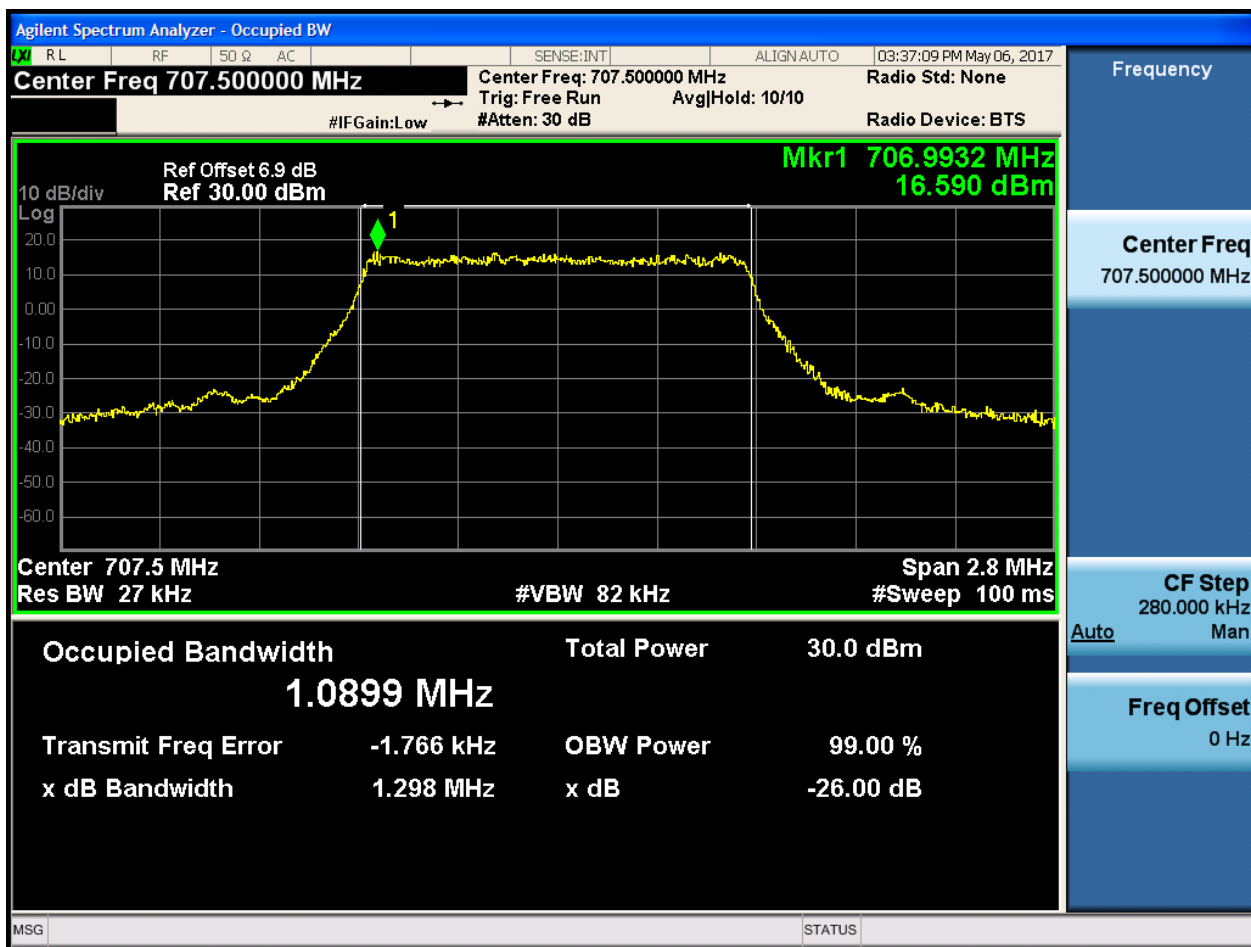
4.1.1.1.1.1.1 Test RB = RB6#0





4.1.1.1.1.2 Test Channel = MCH

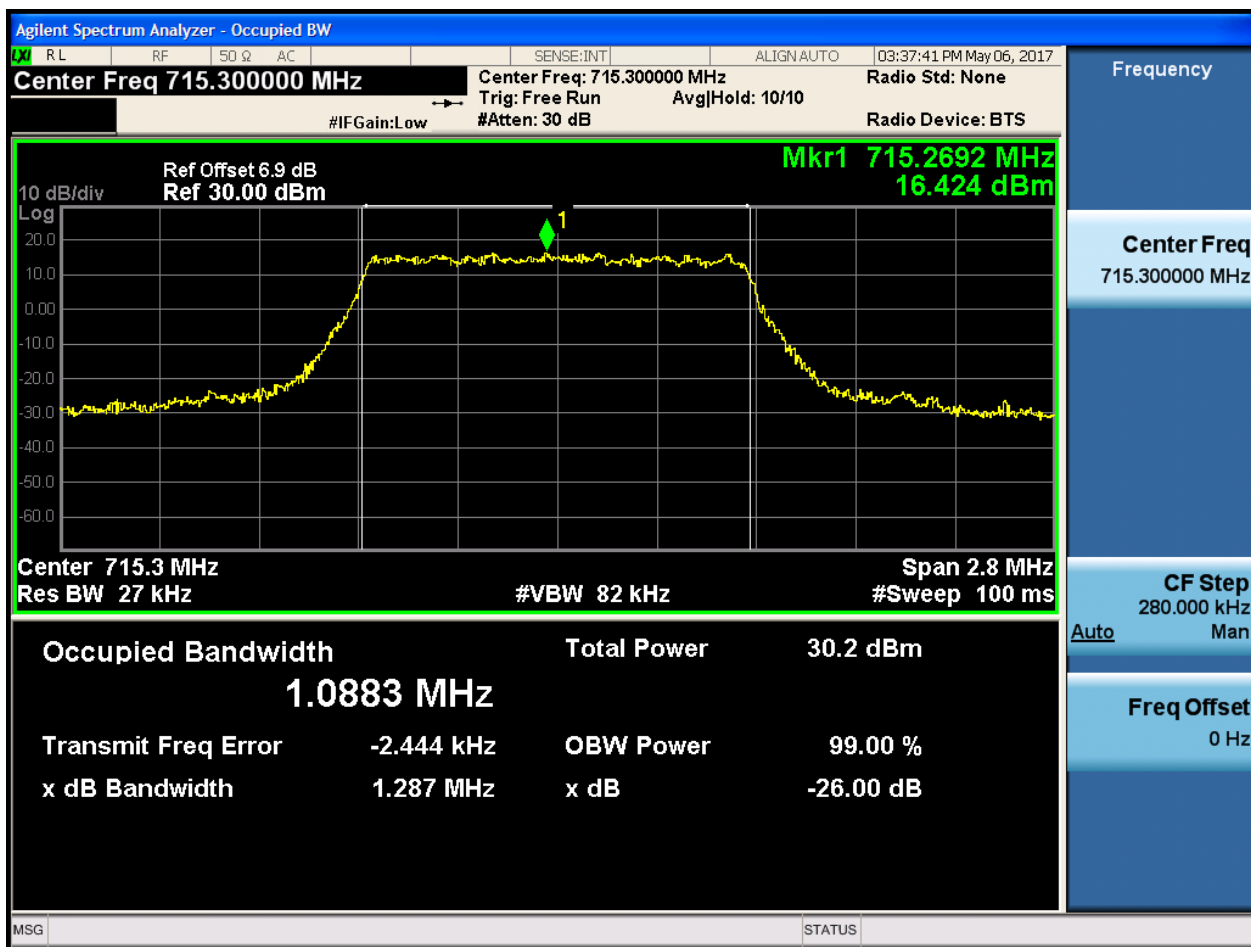
4.1.1.1.1.2.1 Test RB = RB6#0





4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB6#0

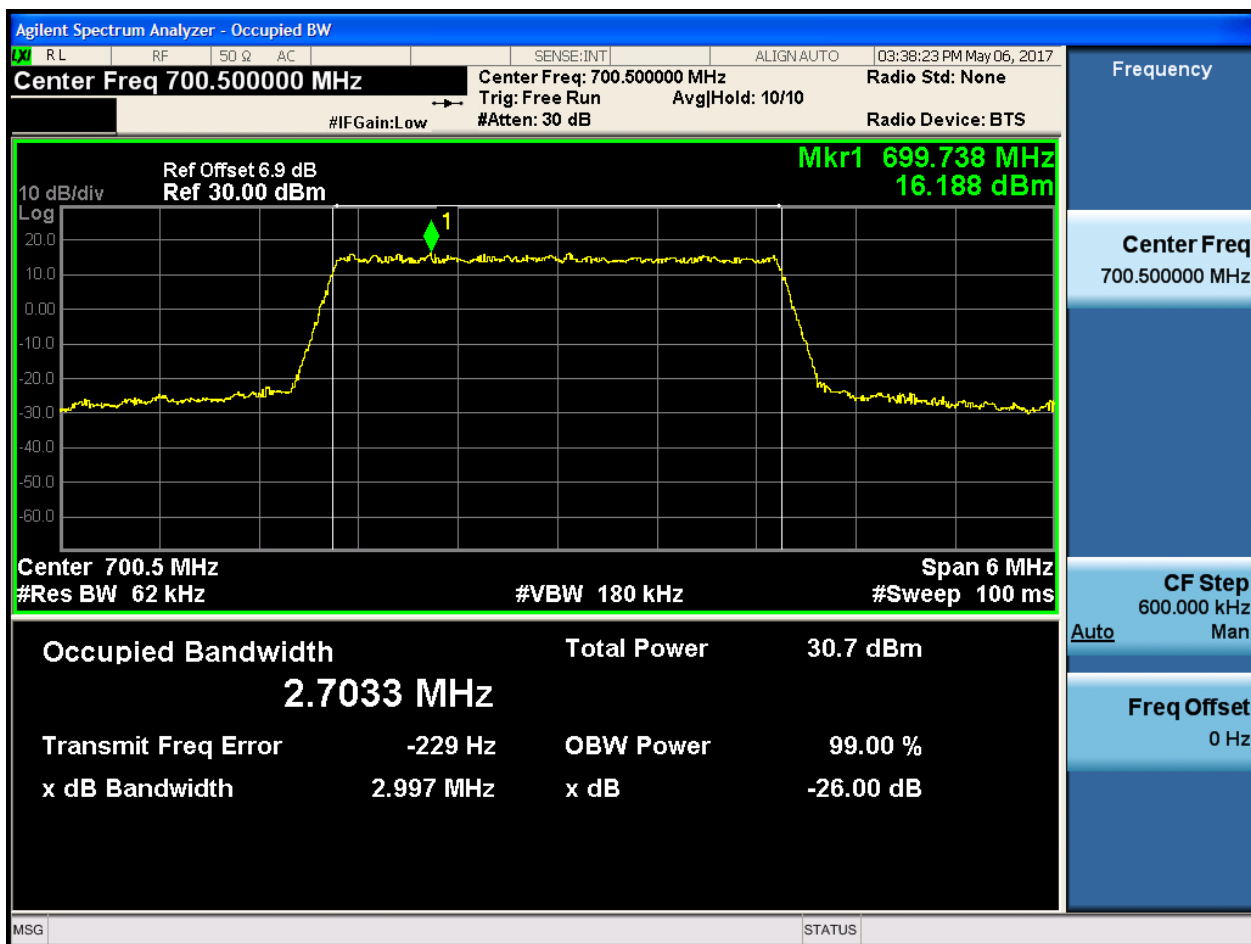




4.1.1.1.2 Test Bandwidth = 3

4.1.1.1.2.1 Test Channel = LCH

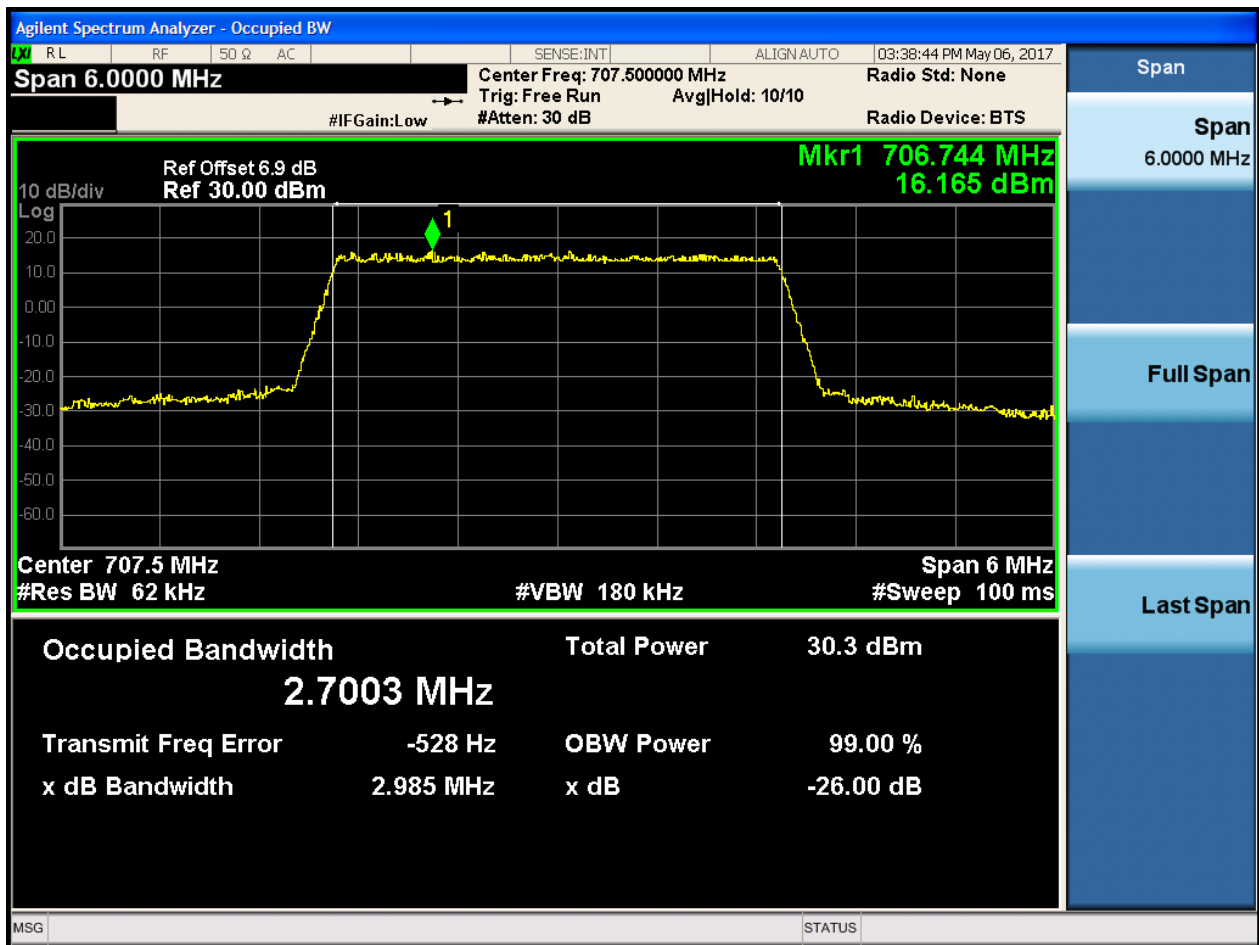
4.1.1.1.2.1.1 Test RB = RB15#0





4.1.1.1.2.2 Test Channel = MCH

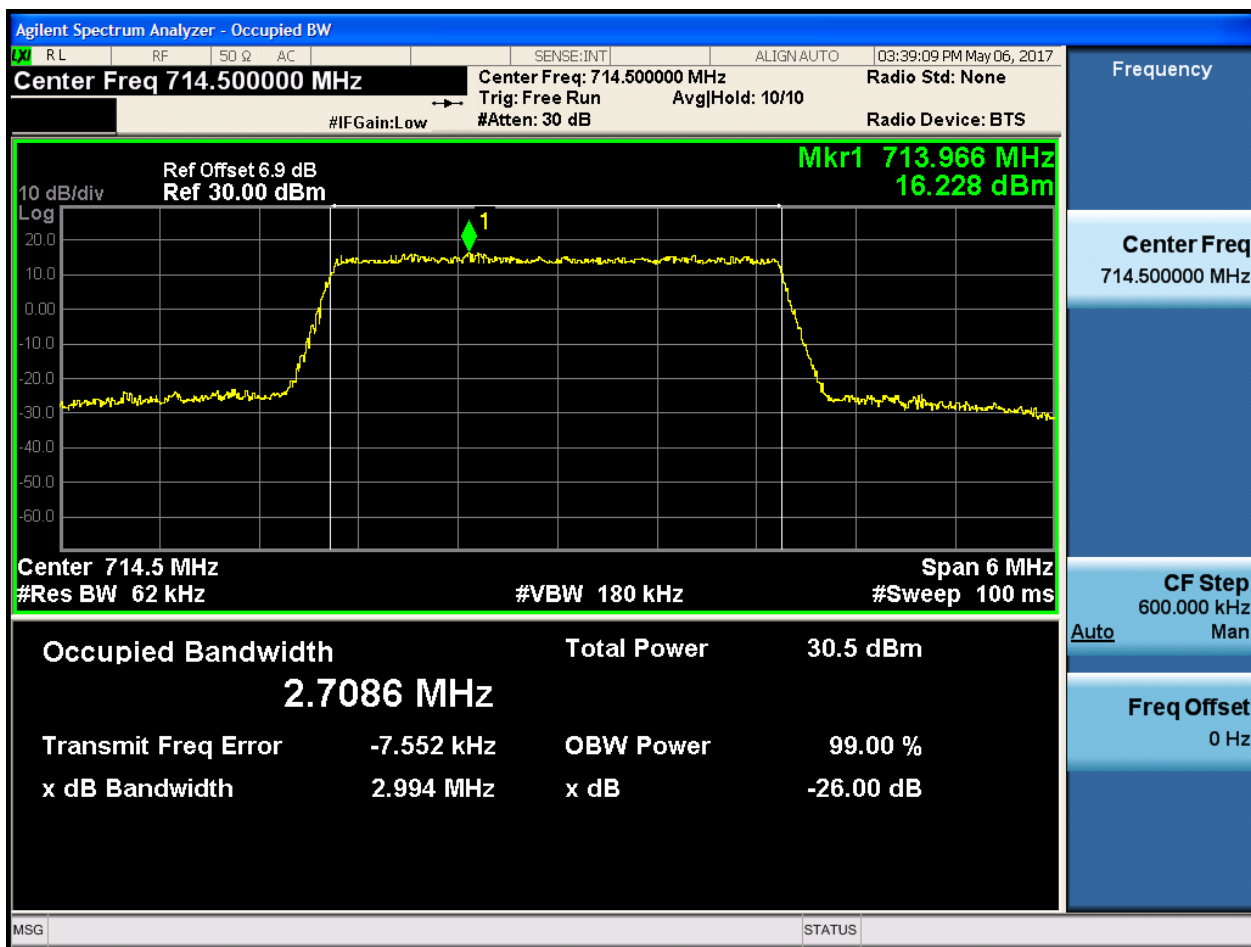
4.1.1.1.2.2.1 Test RB = RB15#0





4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB15#0

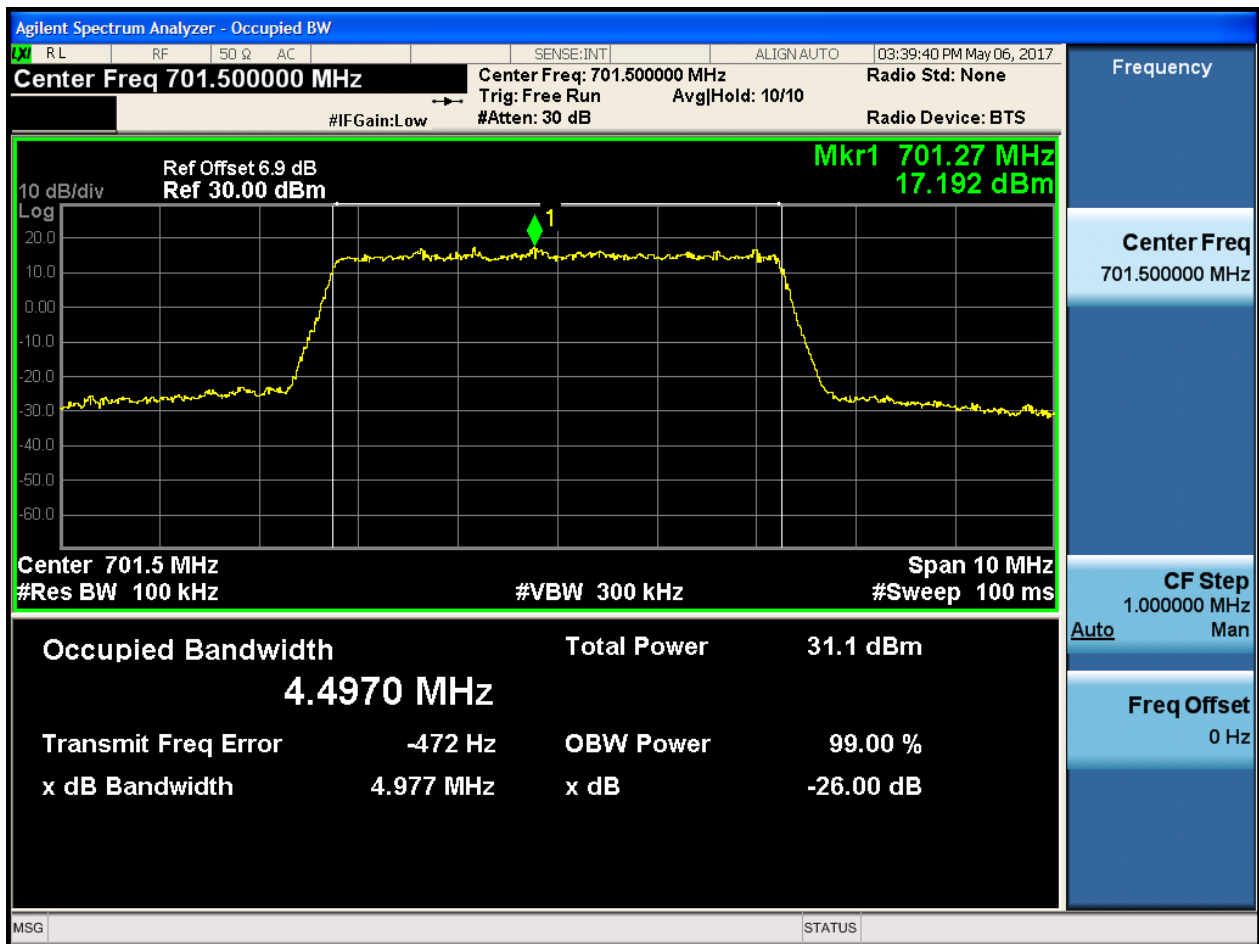




4.1.1.1.3 Test Bandwidth = 5

4.1.1.1.3.1 Test Channel = LCH

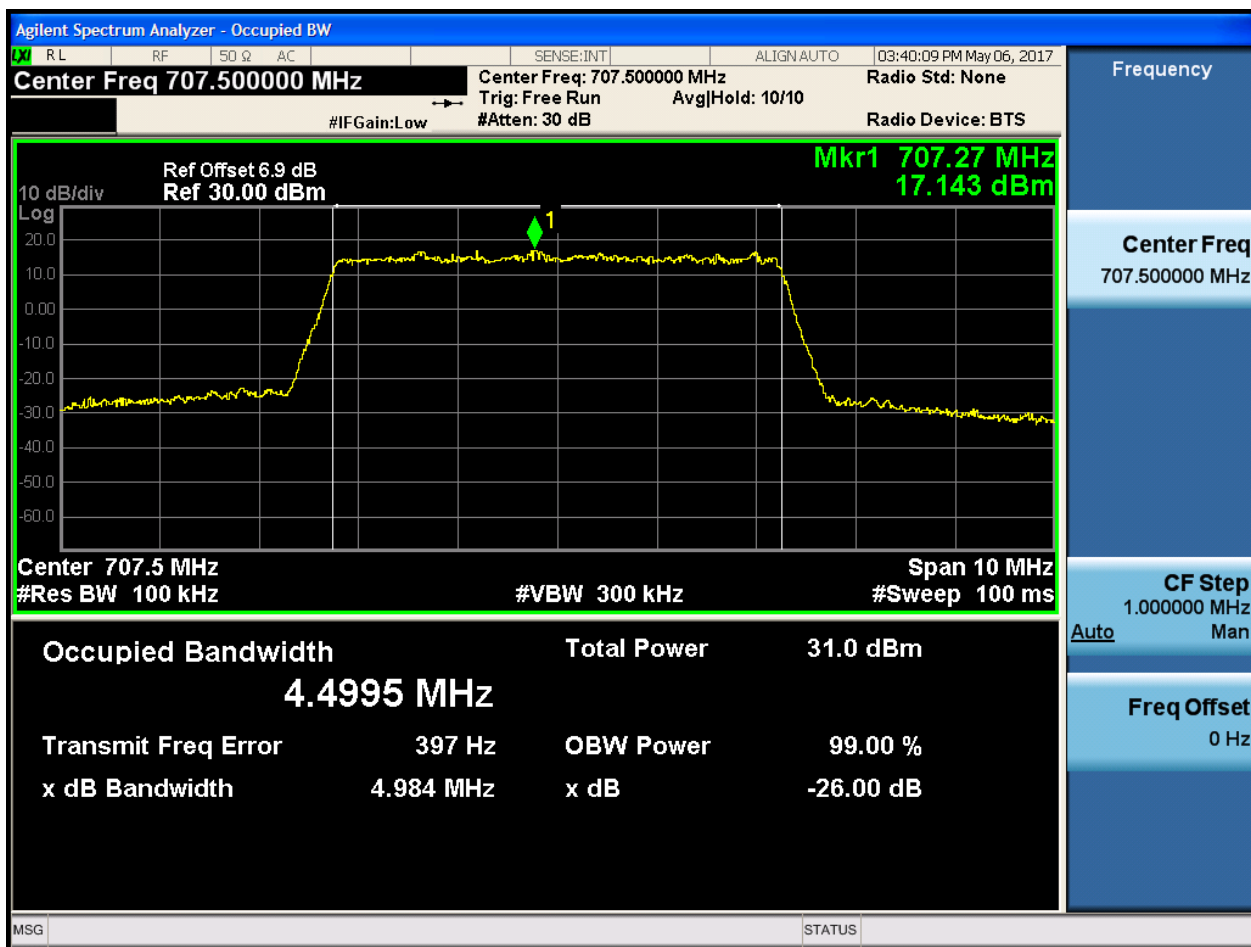
4.1.1.1.3.1.1 Test RB = RB25#0





4.1.1.1.3.2 Test Channel = MCH

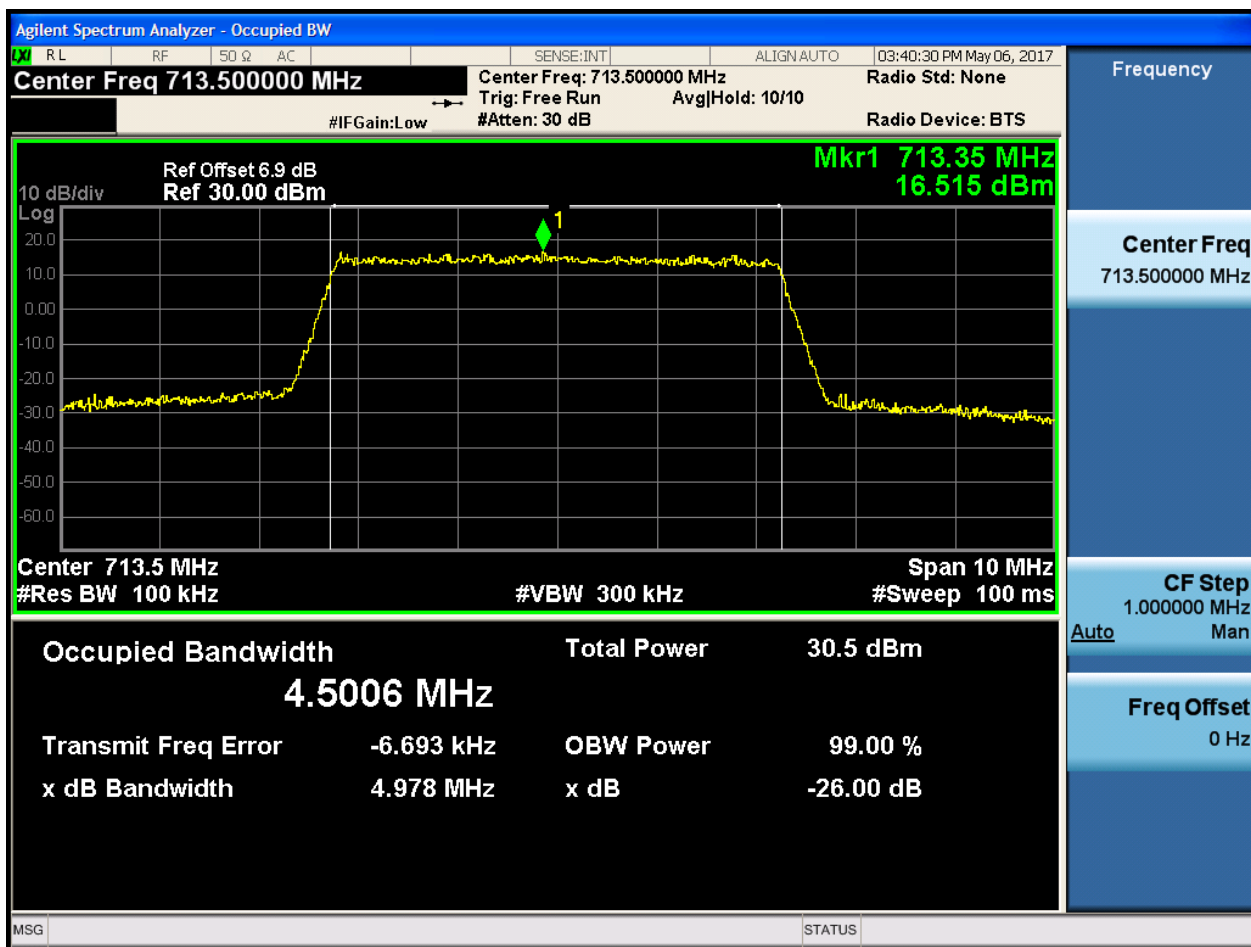
4.1.1.1.3.2.1 Test RB = RB25#0





4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB25#0

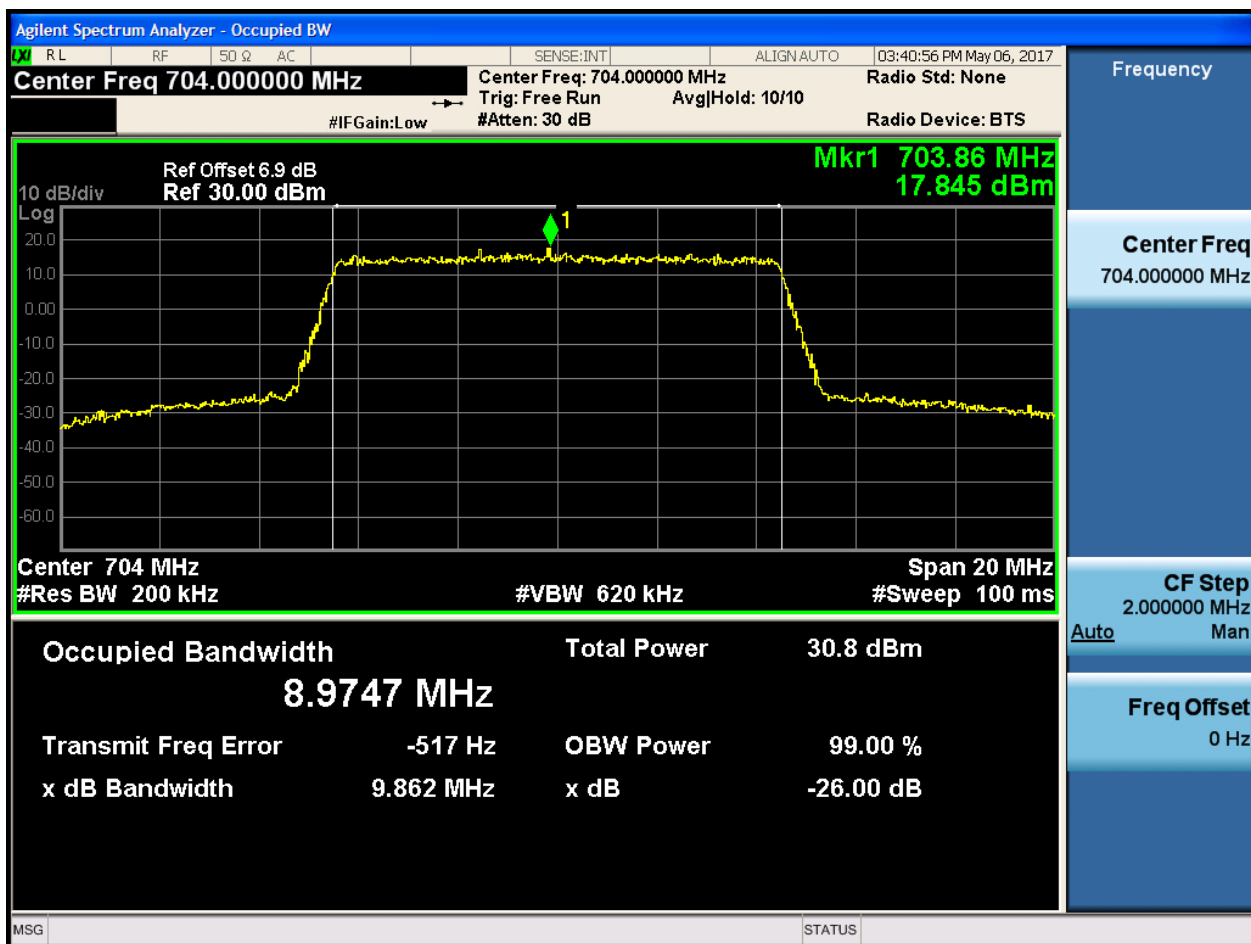




4.1.1.1.4 Test Bandwidth = 10

4.1.1.1.4.1 Test Channel = LCH

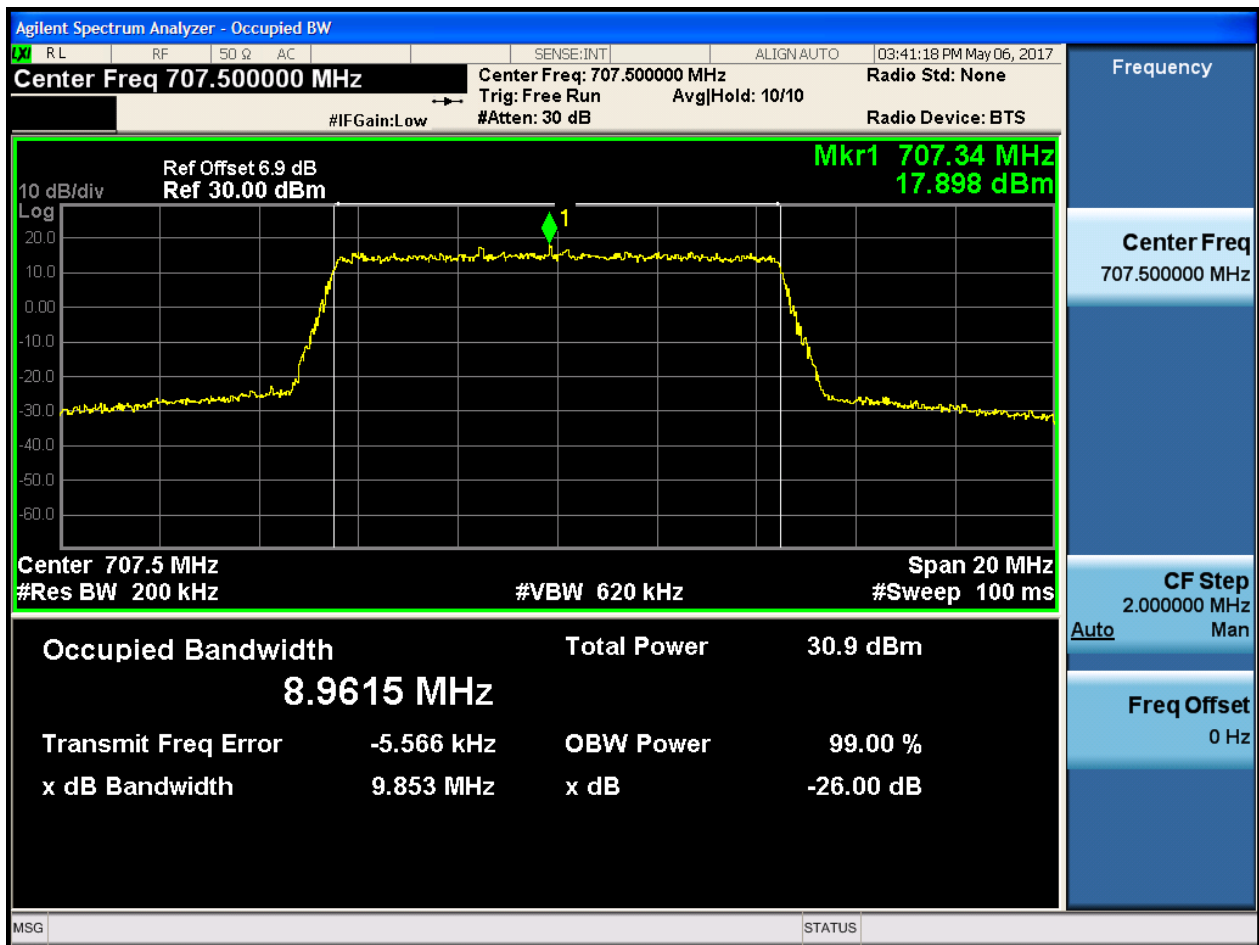
4.1.1.1.4.1.1 Test RB = RB50#0





4.1.1.1.4.2 Test Channel = MCH

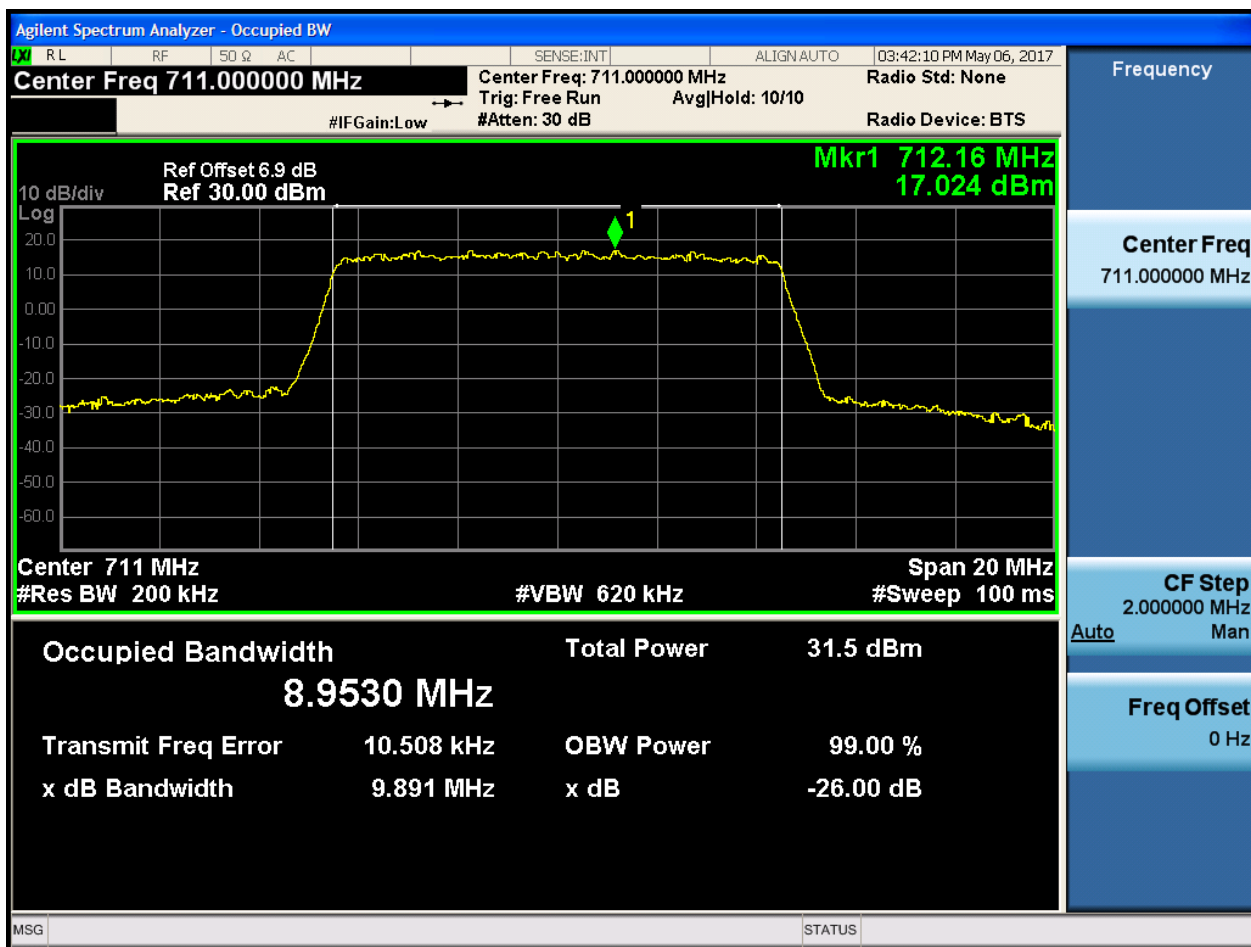
4.1.1.1.4.2.1 Test RB = RB50#0





4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB50#0



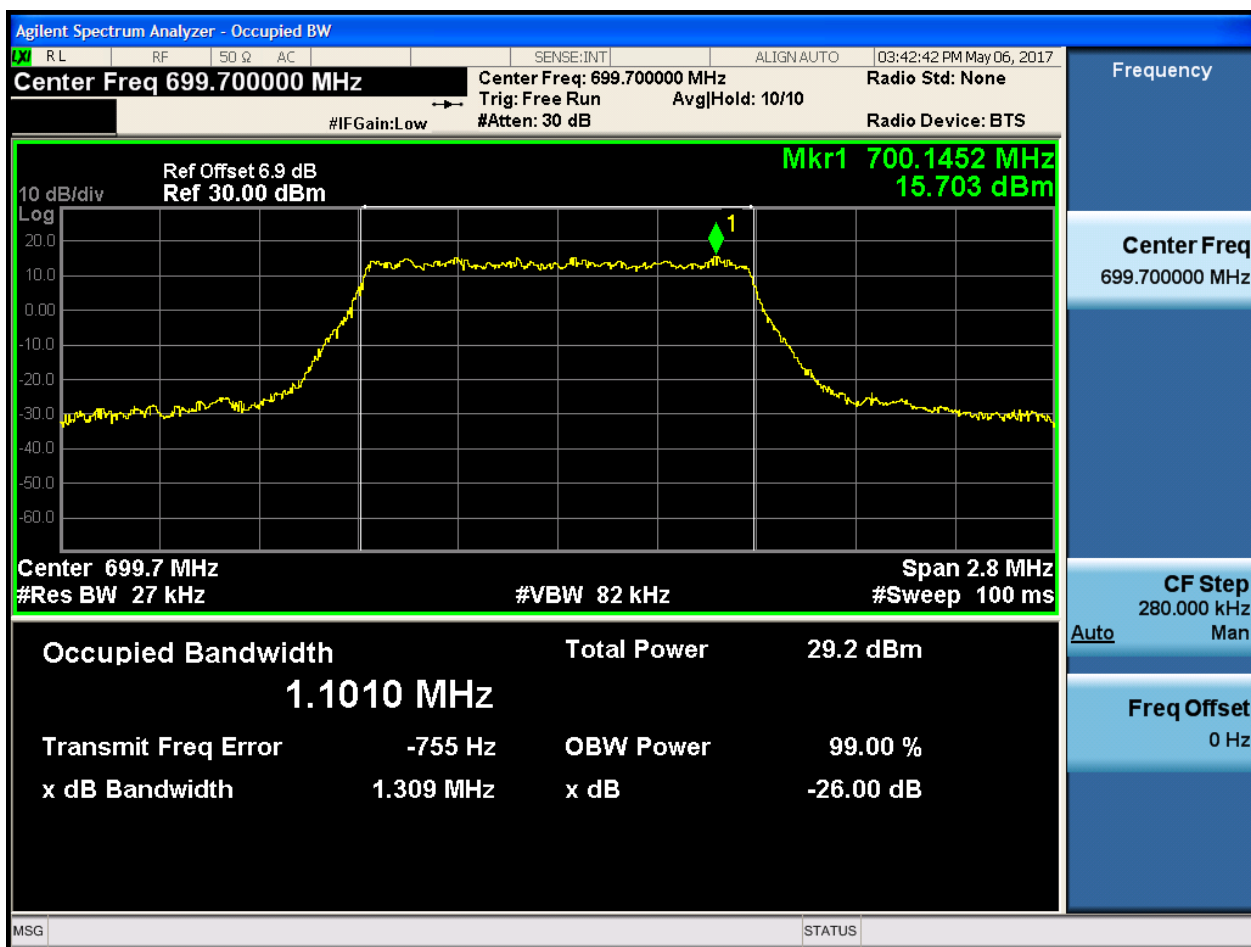


4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 1.4

4.1.1.2.1.1 Test Channel = LCH

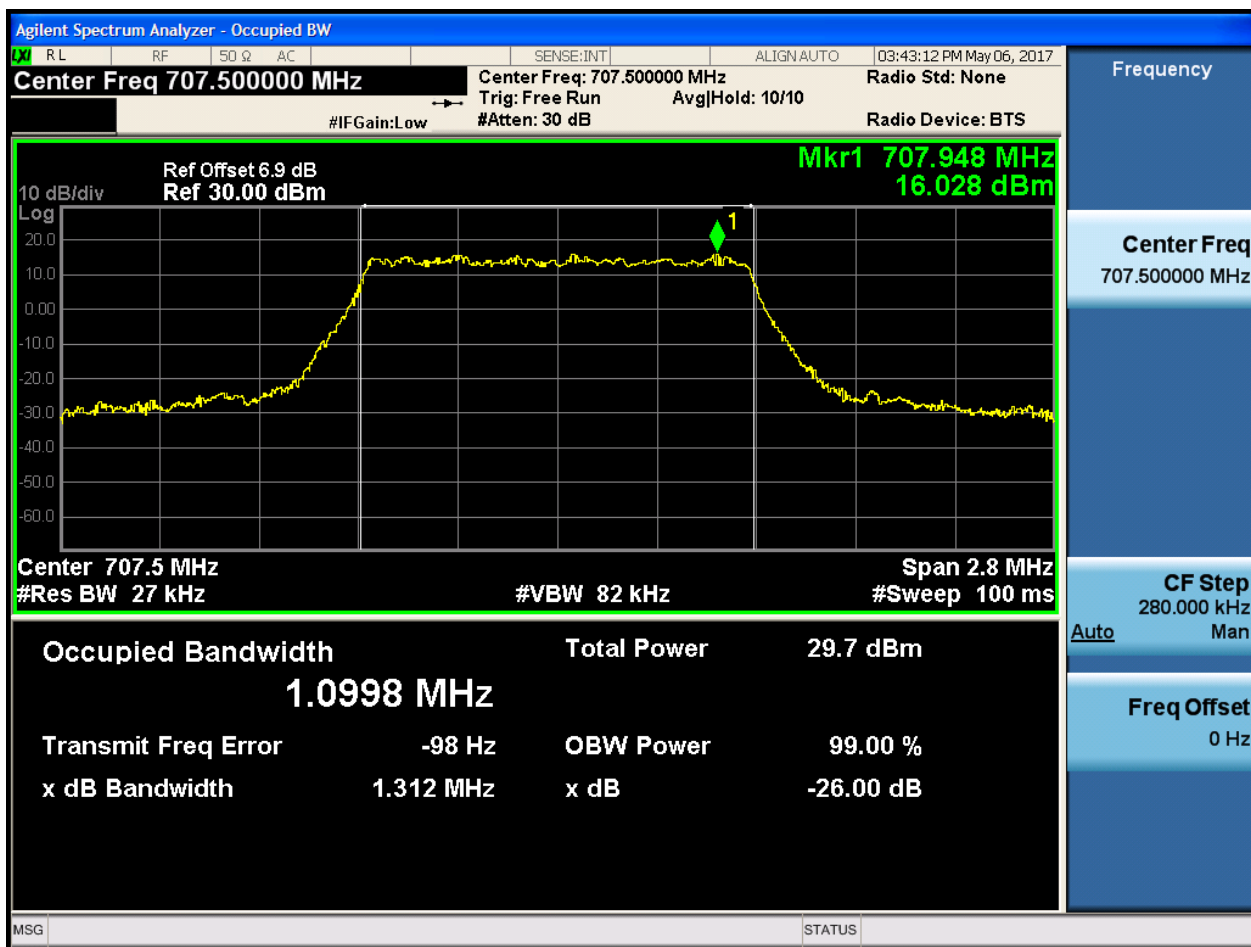
4.1.1.2.1.1.1 Test RB = RB6#0





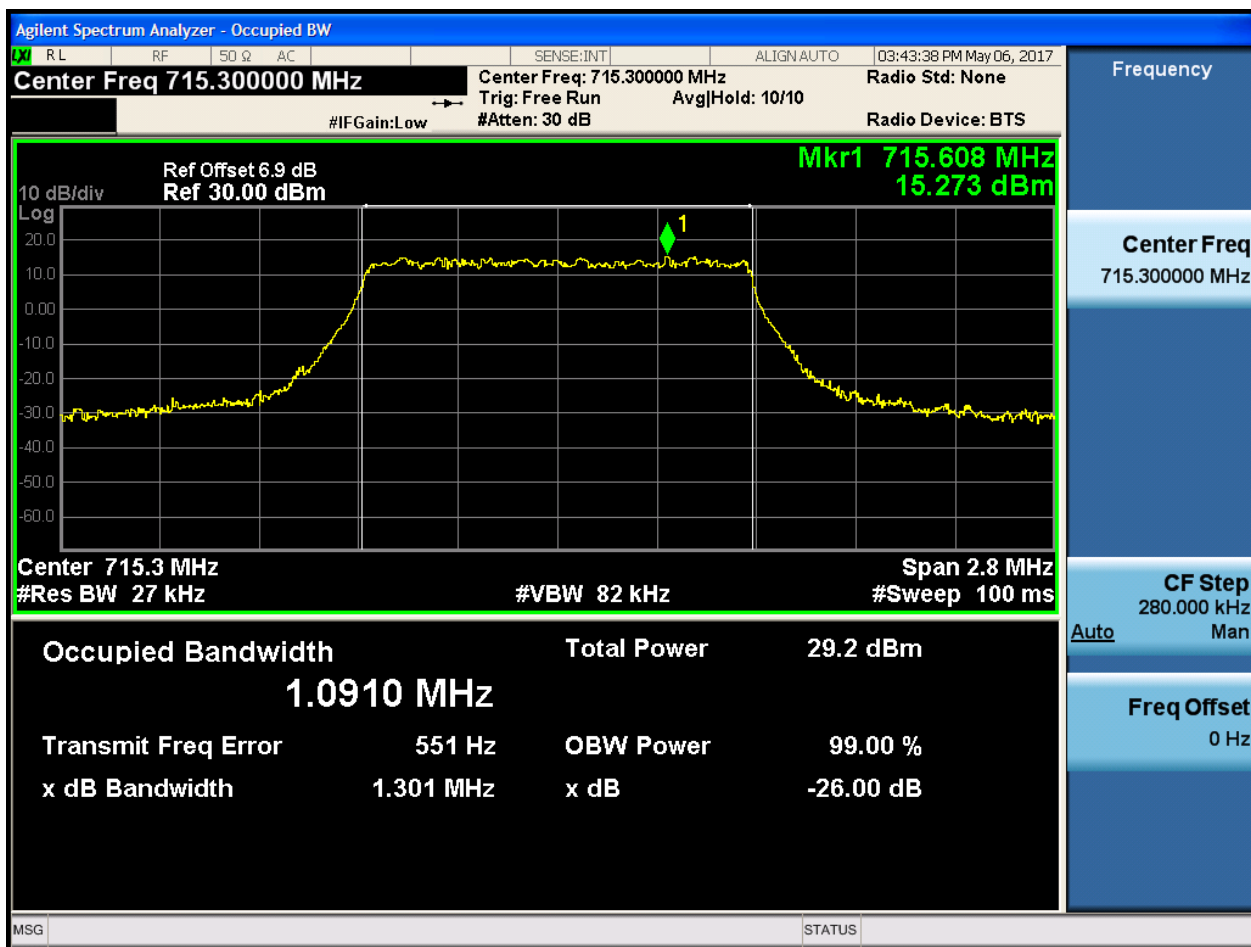
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB6#0



4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB6#0

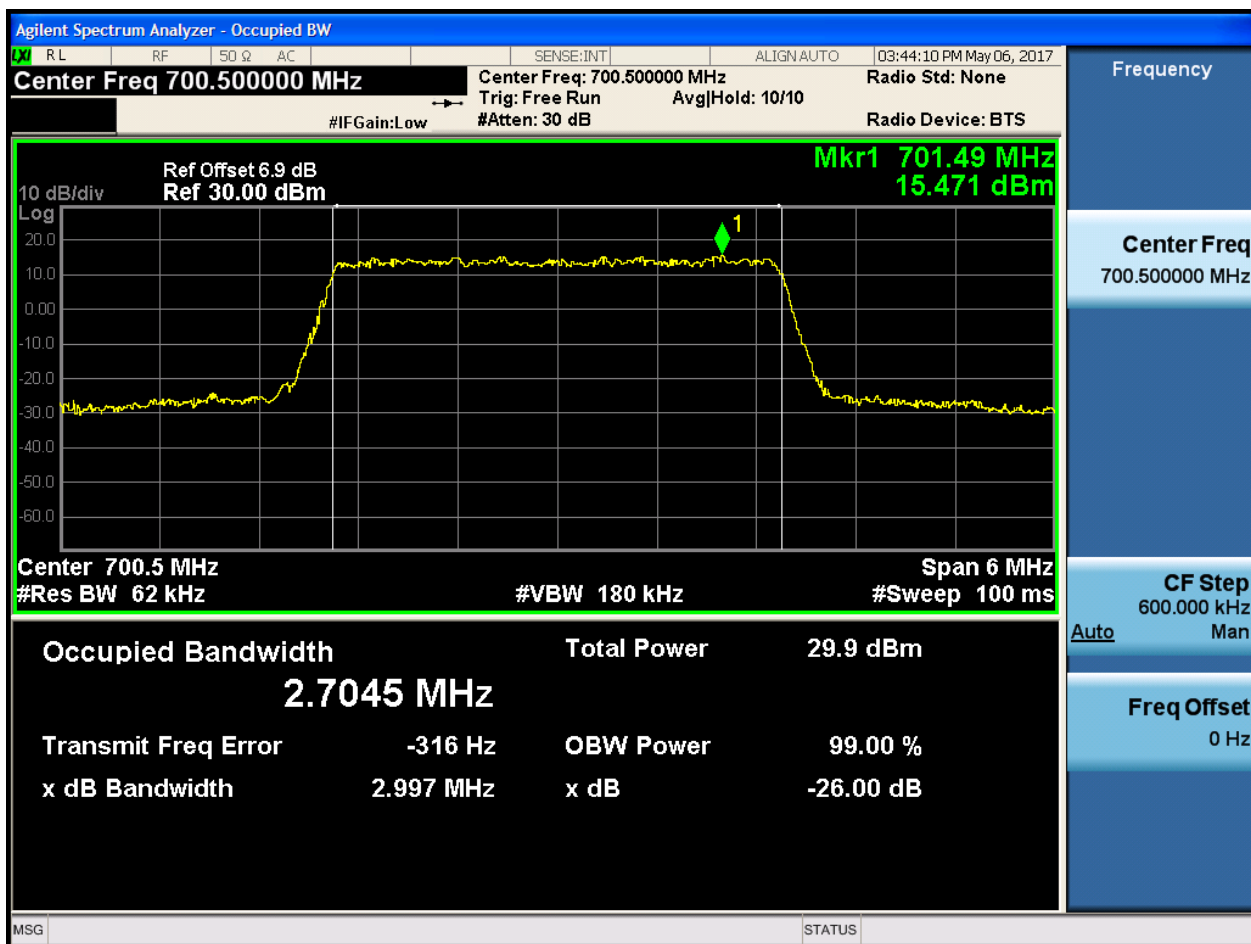




4.1.1.2.2 Test Bandwidth = 3

4.1.1.2.2.1 Test Channel = LCH

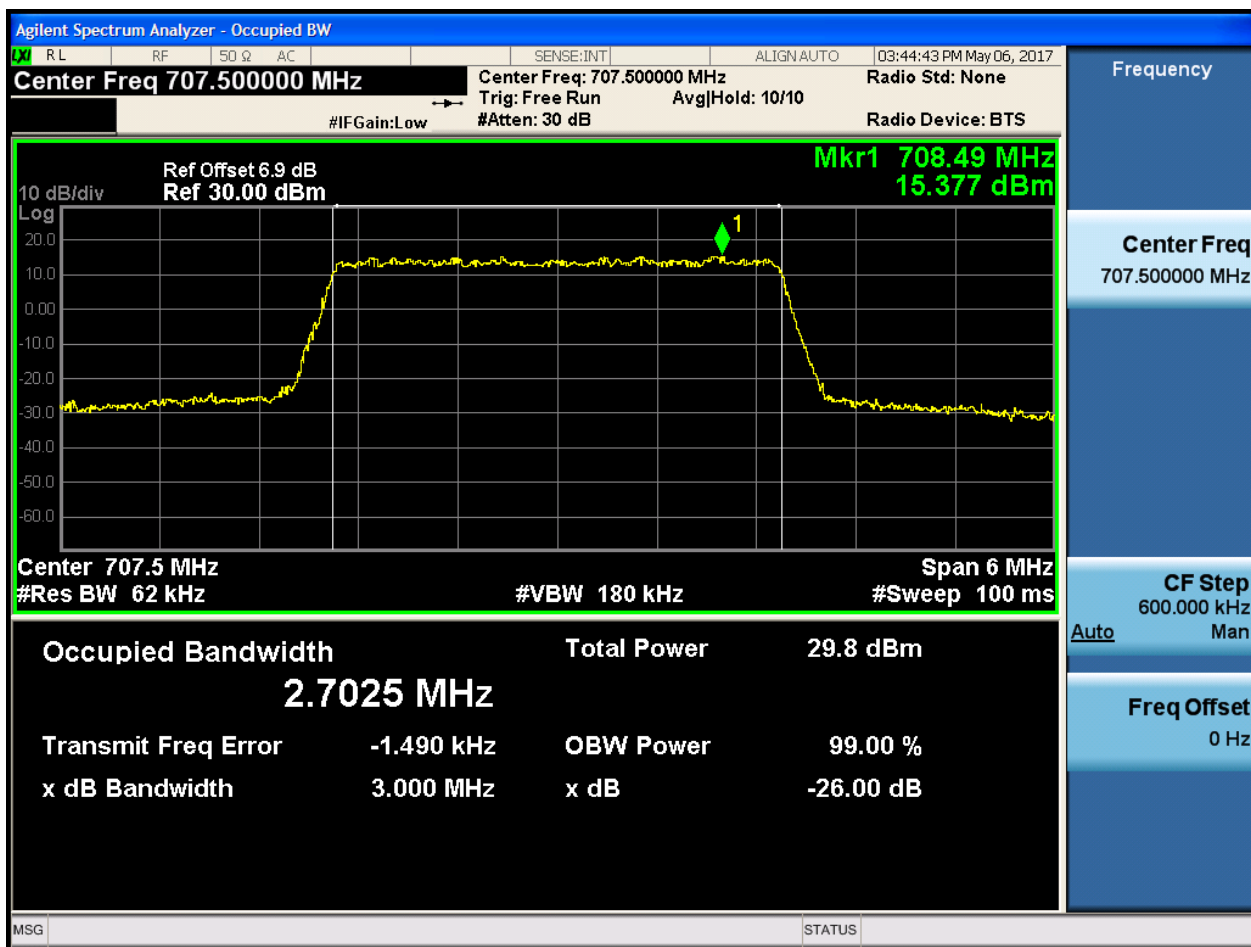
4.1.1.2.2.1.1 Test RB = RB15#0





4.1.1.2.2.2 Test Channel = MCH

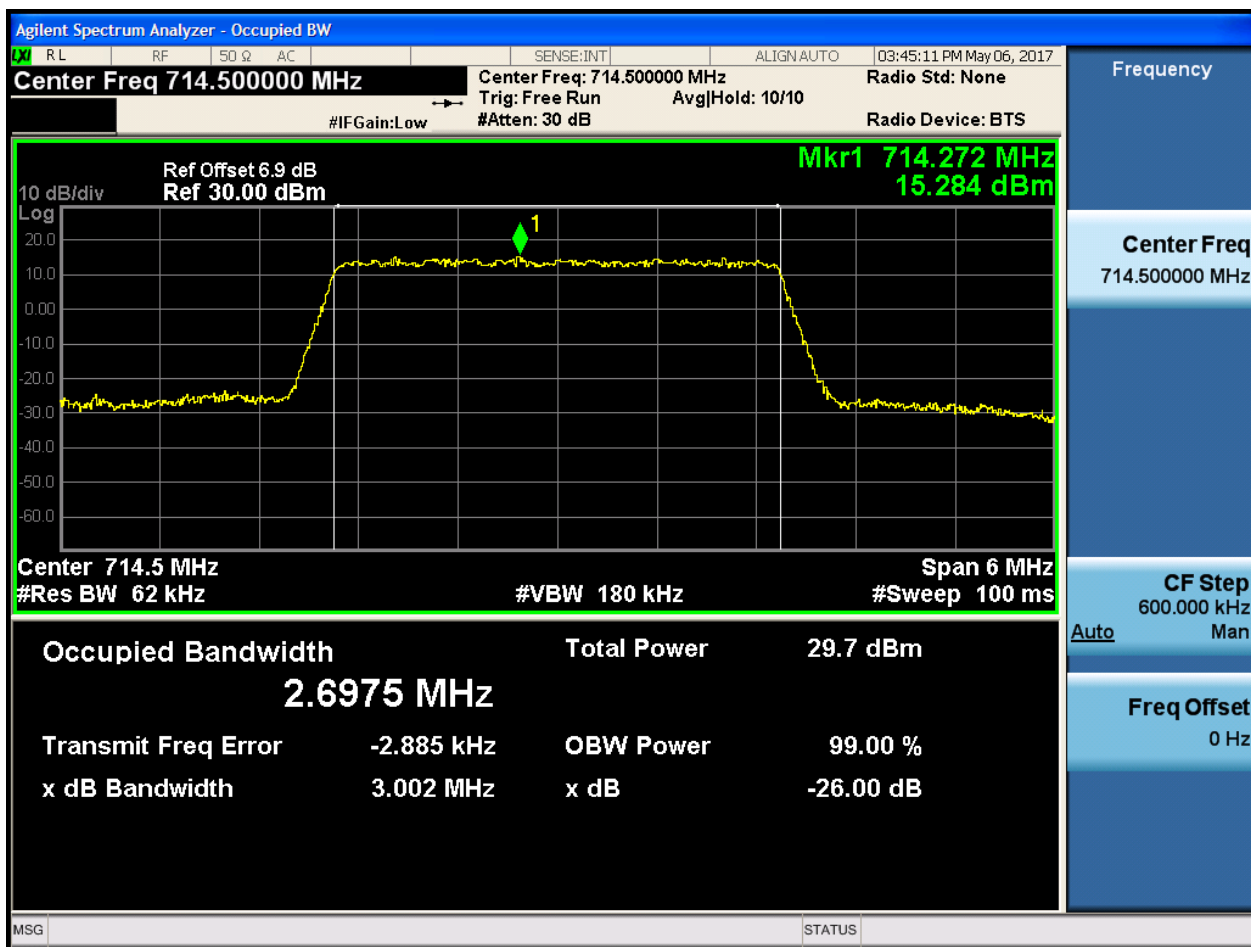
4.1.1.2.2.1 Test RB = RB15#0





4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB15#0

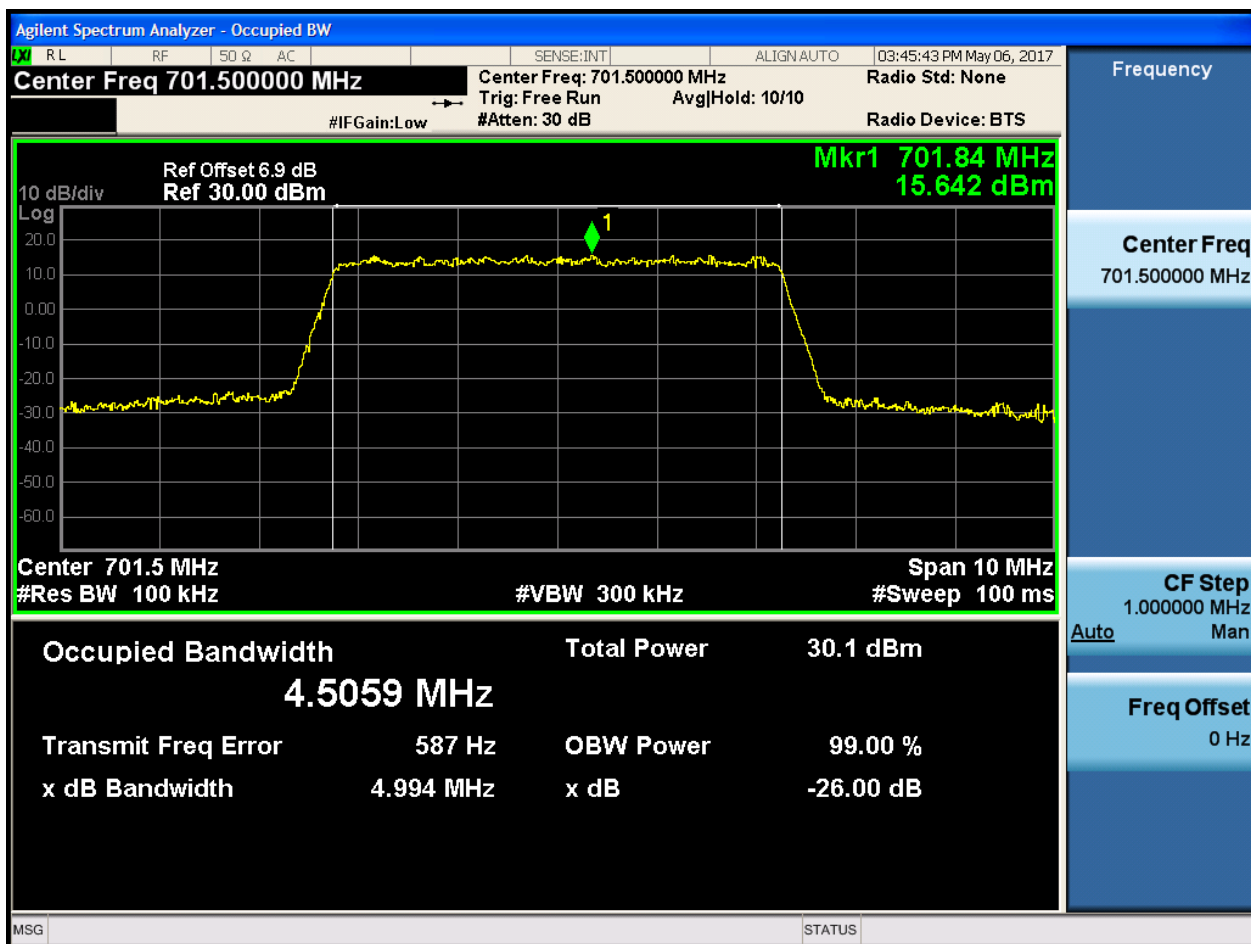




4.1.1.2.3 Test Bandwidth = 5

4.1.1.2.3.1 Test Channel = LCH

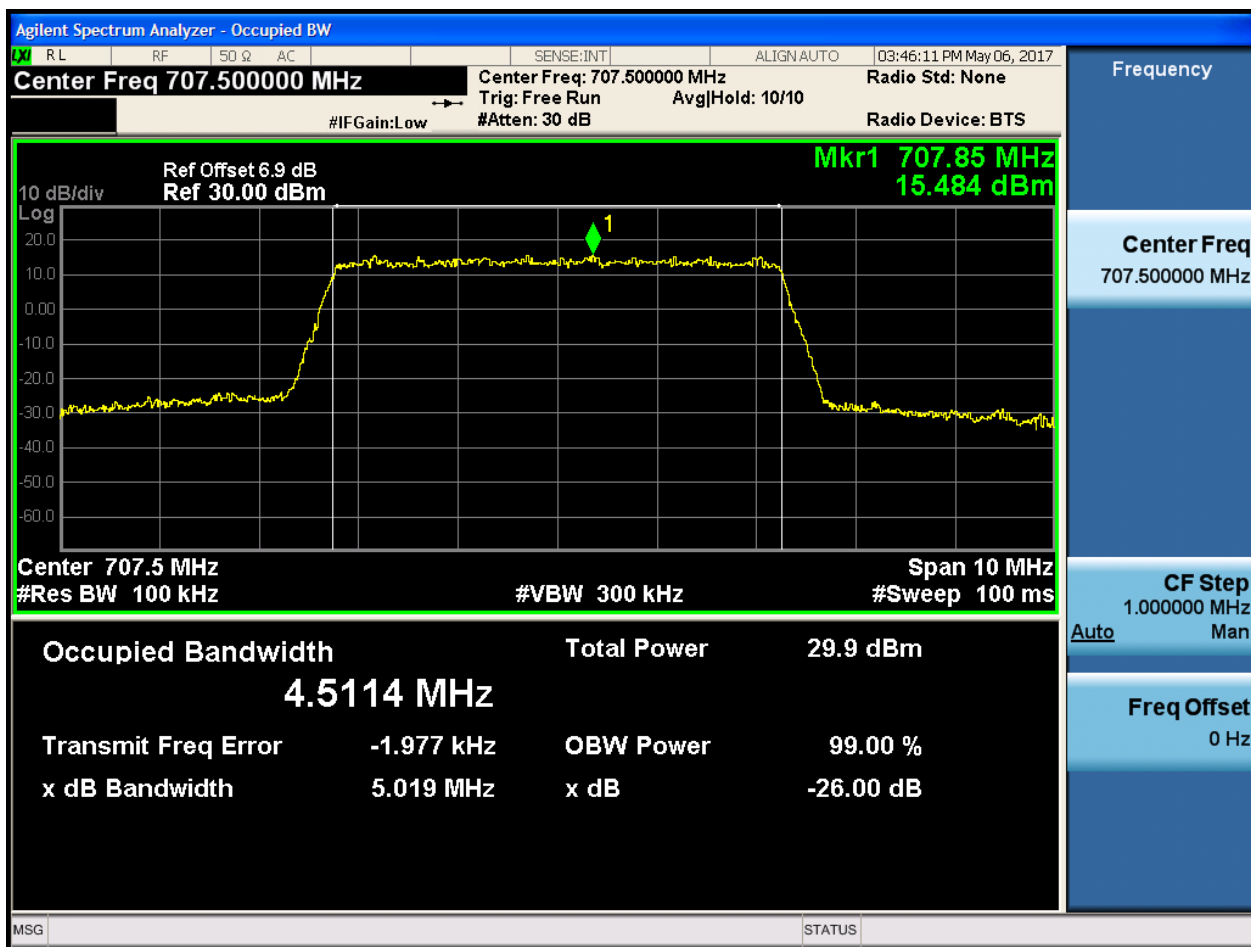
4.1.1.2.3.1.1 Test RB = RB25#0





4.1.1.2.3.2 Test Channel = MCH

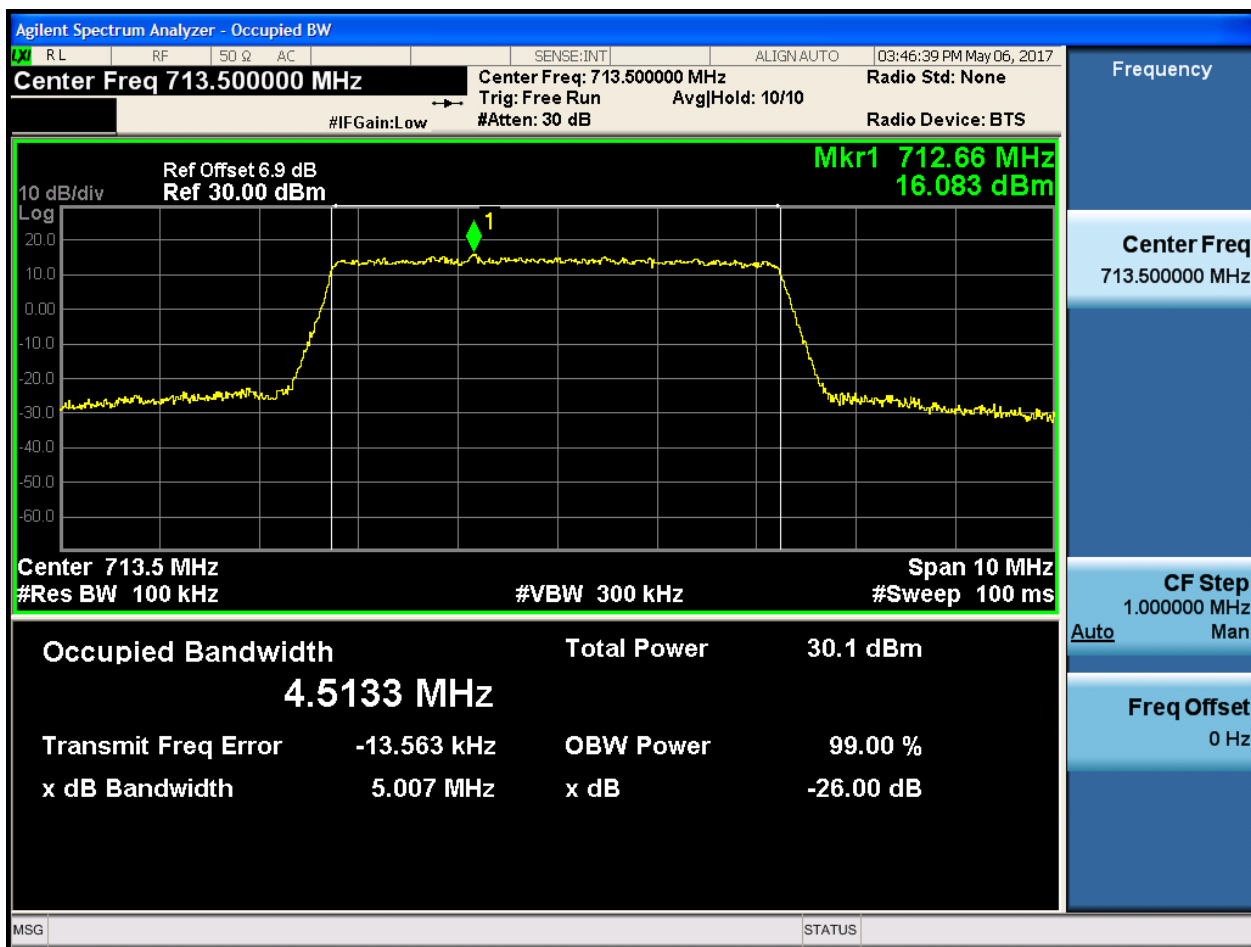
4.1.1.2.3.2.1 Test RB = RB25#0





4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0

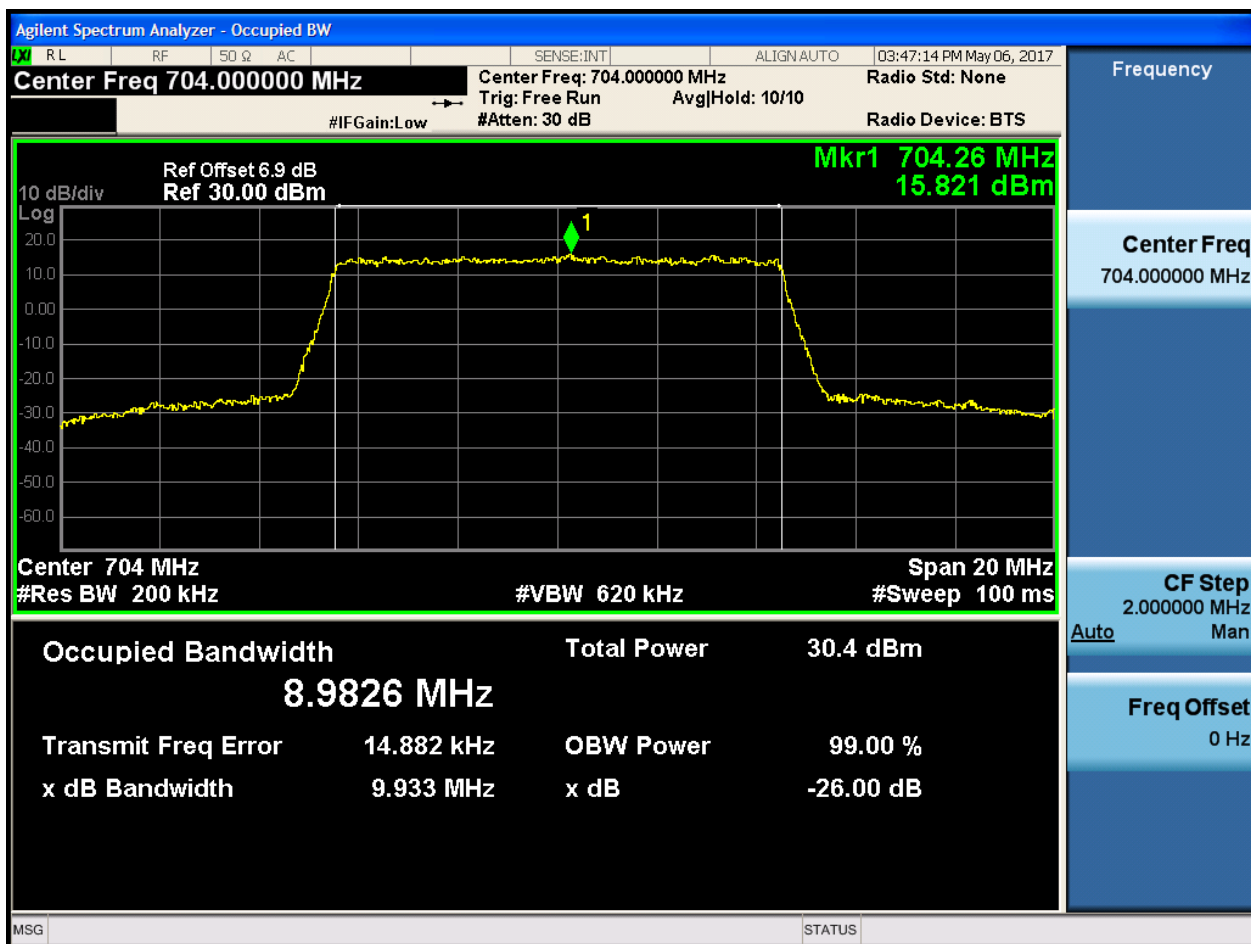




4.1.1.2.4 Test Bandwidth = 10

4.1.1.2.4.1 Test Channel = LCH

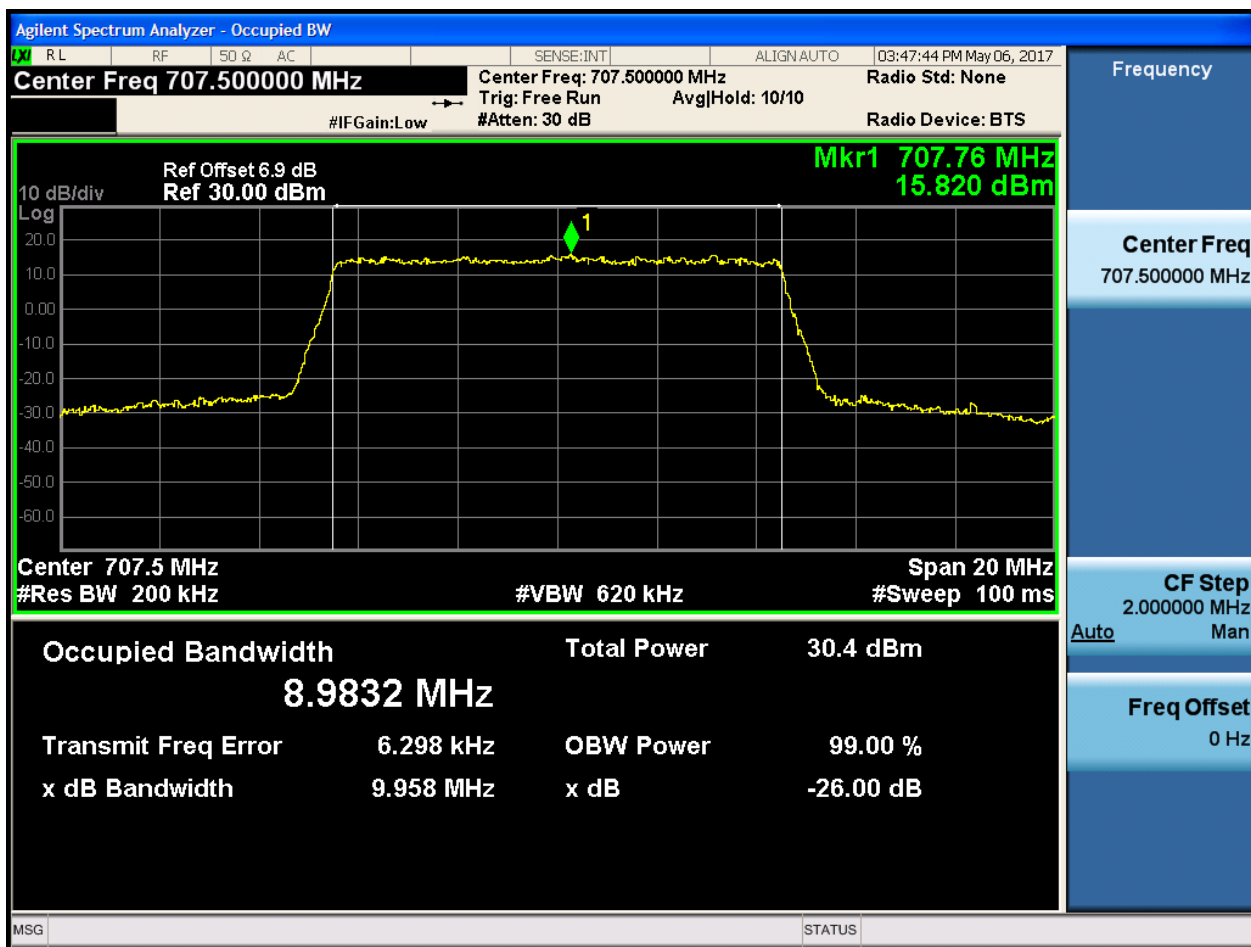
4.1.1.2.4.1.1 Test RB = RB50#0





4.1.1.2.4.2 Test Channel = MCH

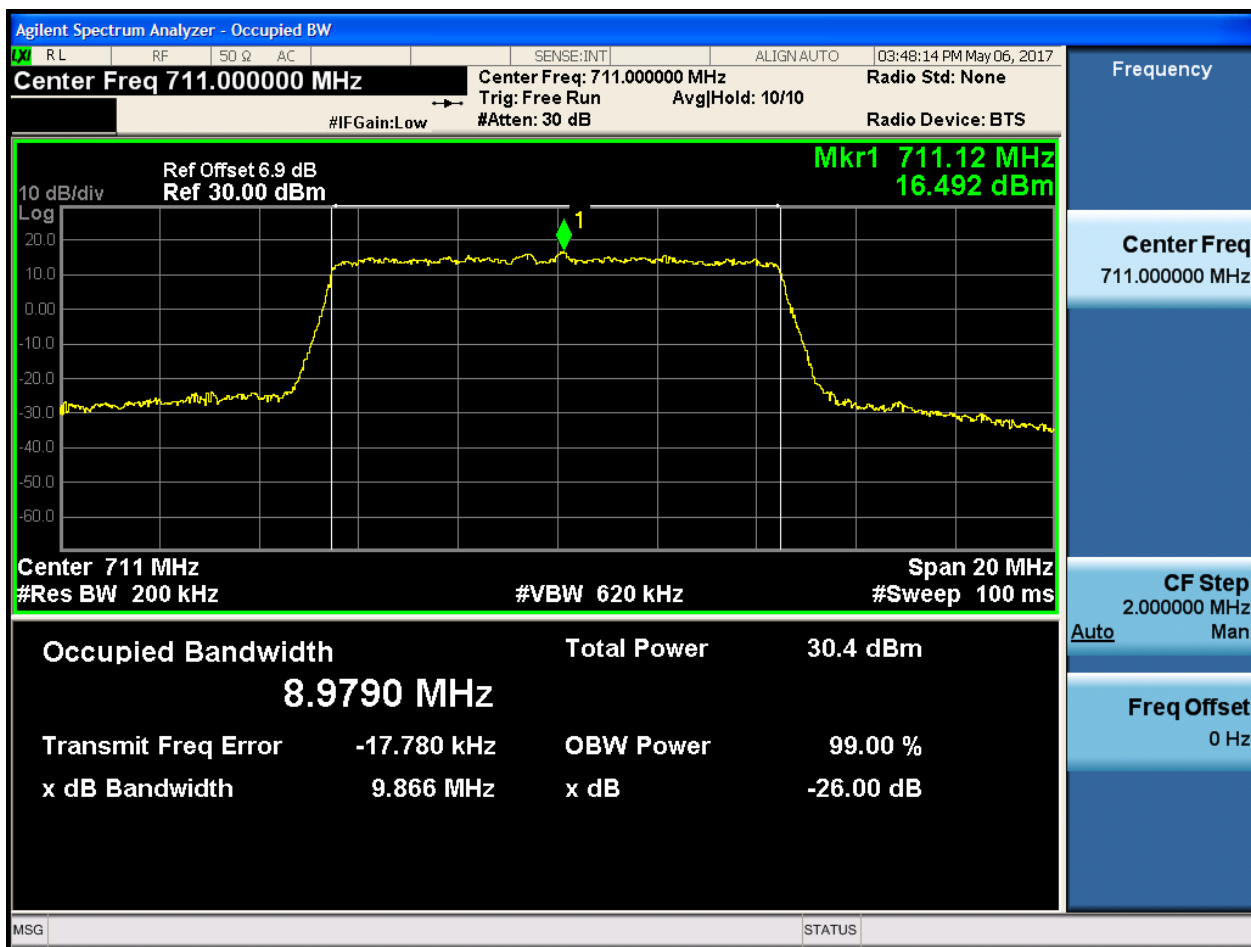
4.1.1.2.4.2.1 Test RB = RB50#0





4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB50#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

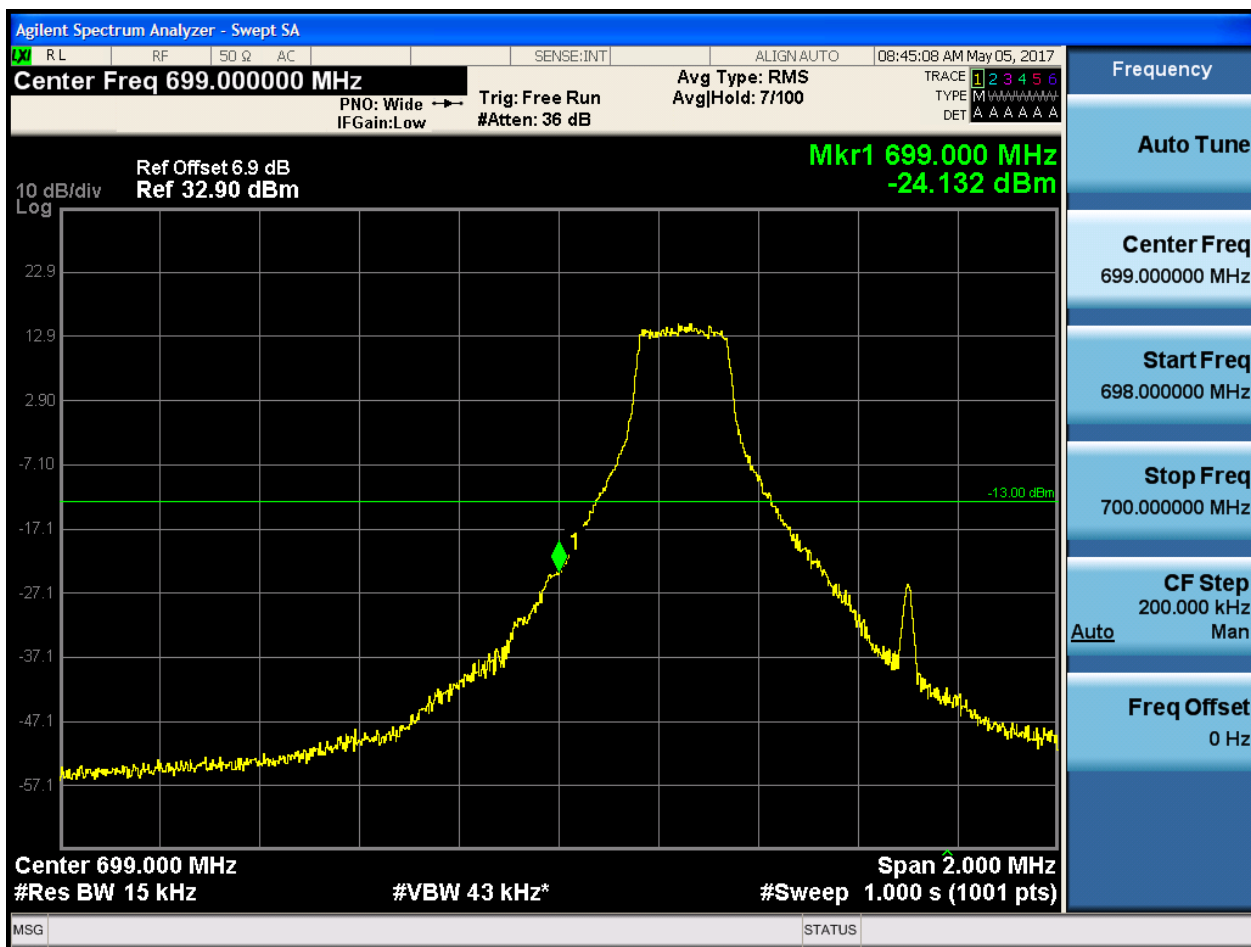
5.1.1 Test Band = BAND12

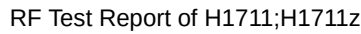
5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 1.4

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 08:45:22 AM May 05, 2017

Center Freq 699.000000 MHz Avg Type: RMS
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

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 698.390 MHz
-51.140 dBm

10 dB/div
Log

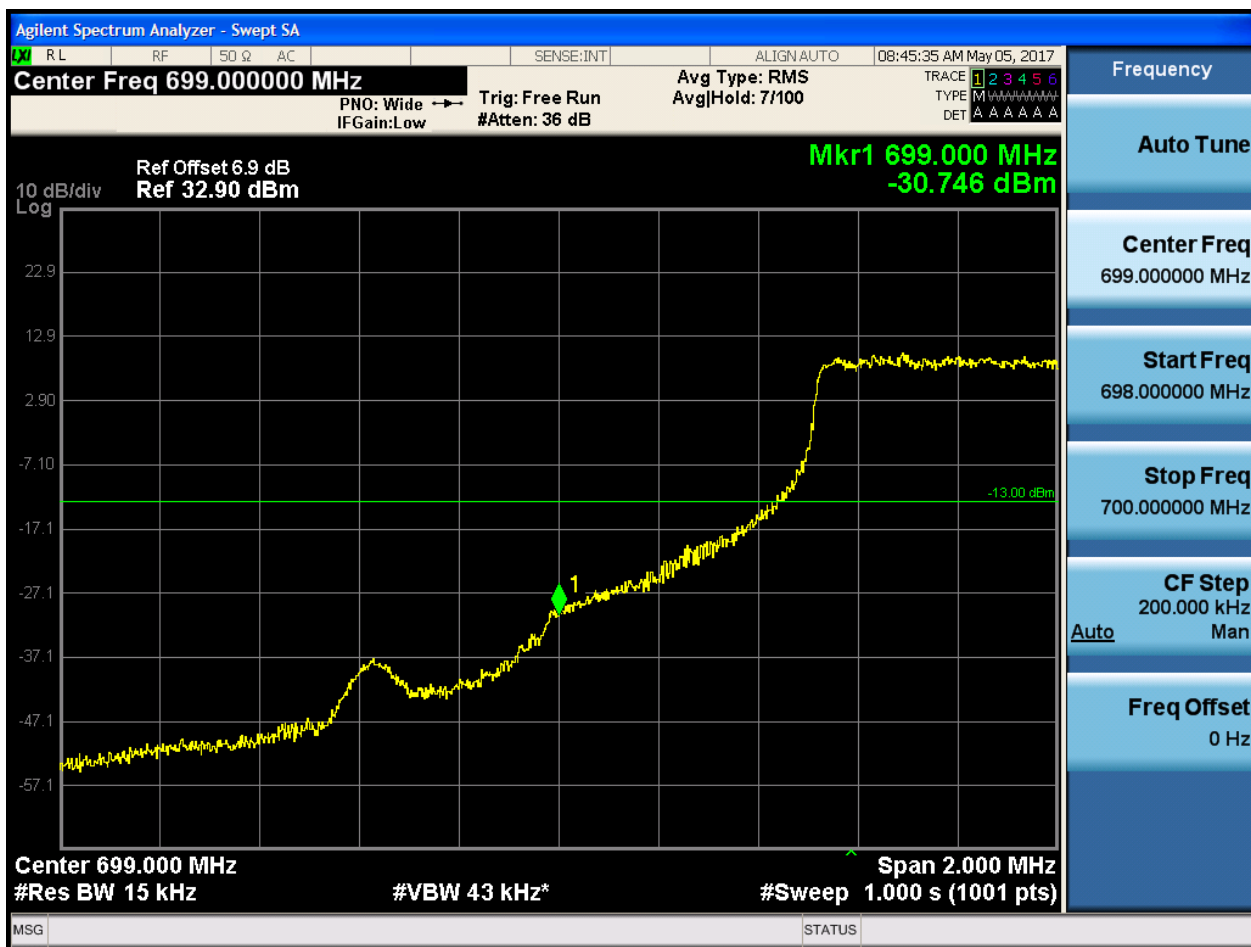
Center 699.000 MHz
#Res BW 15 kHz #VBW 43 kHz* Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

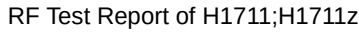
MSG STATUS

Frequency
Auto Tune
Center Freq
699.000000 MHz
Start Freq
698.000000 MHz
Stop Freq
700.000000 MHz
CF Step
200.000 kHz
Auto Man
Freq Offset
0 Hz



5.1.1.1.1.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:45:49 AM May 05, 2017

Center Freq 699.000000 MHz Avg Type: RMS
PNO: Wide Trig: Free Run AvgHold: 71/100
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 6.9 dB
Ref 32.90 dBm

Mkr1 699.000 MHz
-29.328 dBm

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

-13.00 dBm

Center 699.000 MHz
#Res BW 15 kHz
#VBW 43 kHz
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



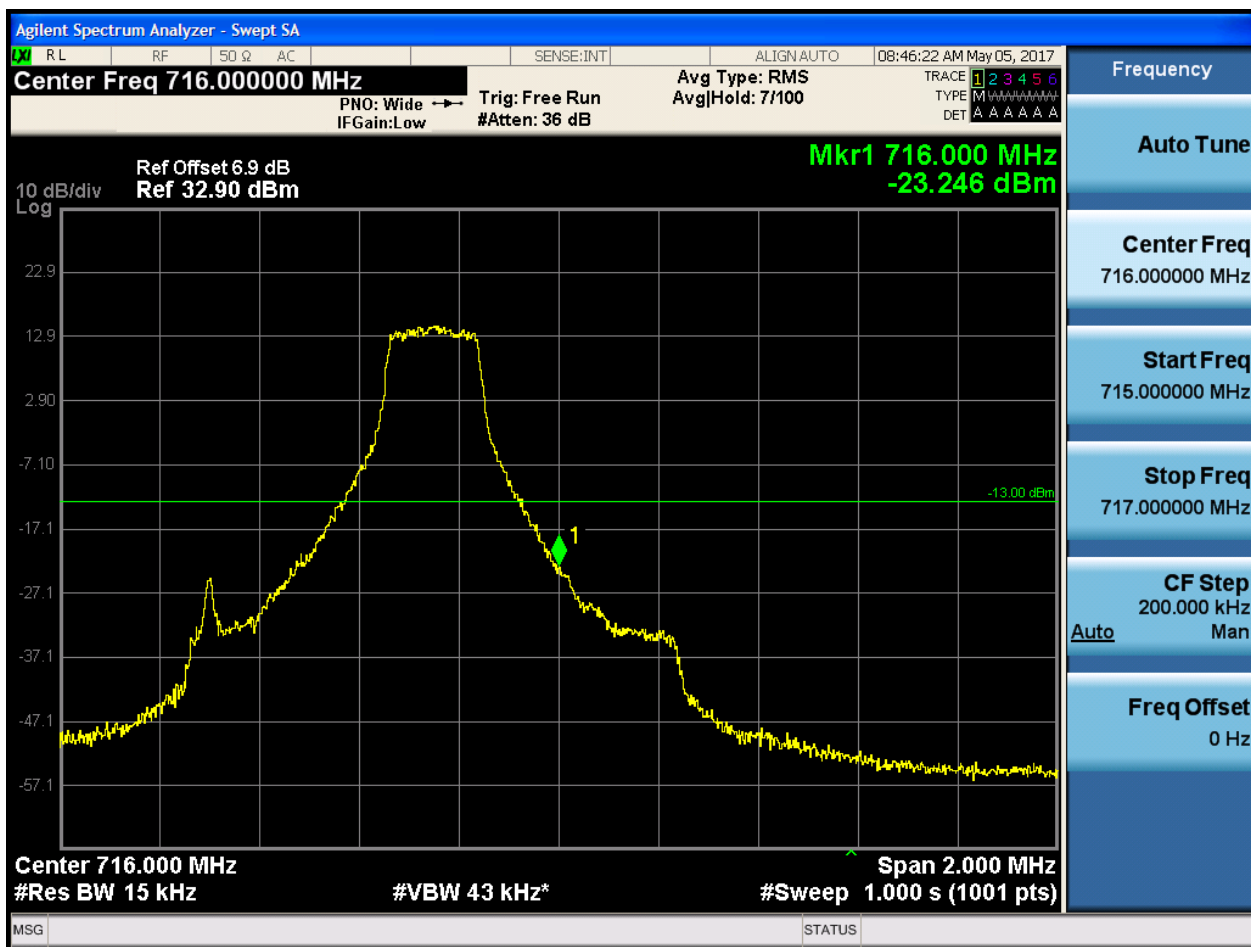
5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.2.2 Test RB = RB1#5





5.1.1.1.2.3 Test RB = RB3#2





5.1.1.1.2.4 Test RB = RB6#0

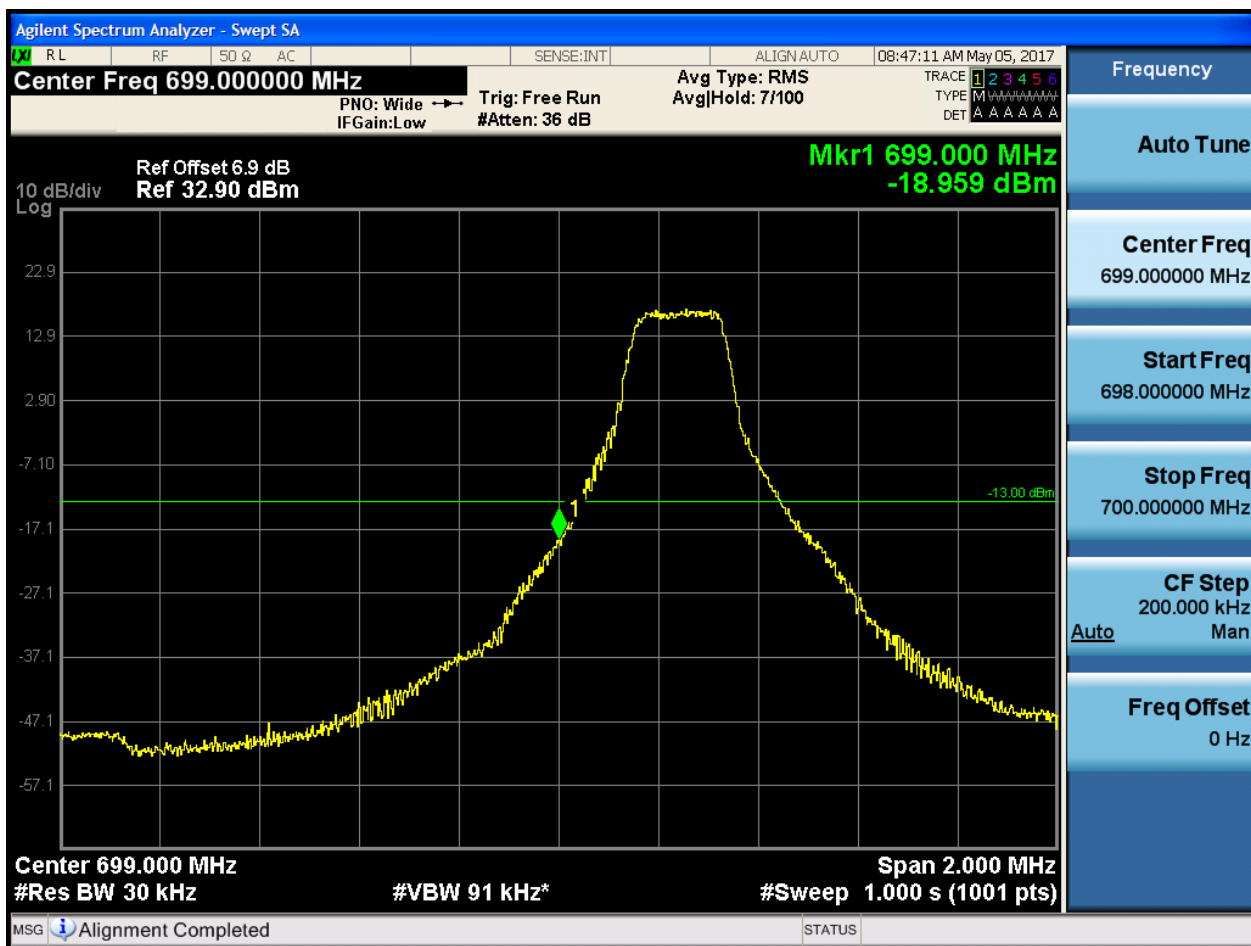




5.1.1.1.2 Test Bandwidth = 3

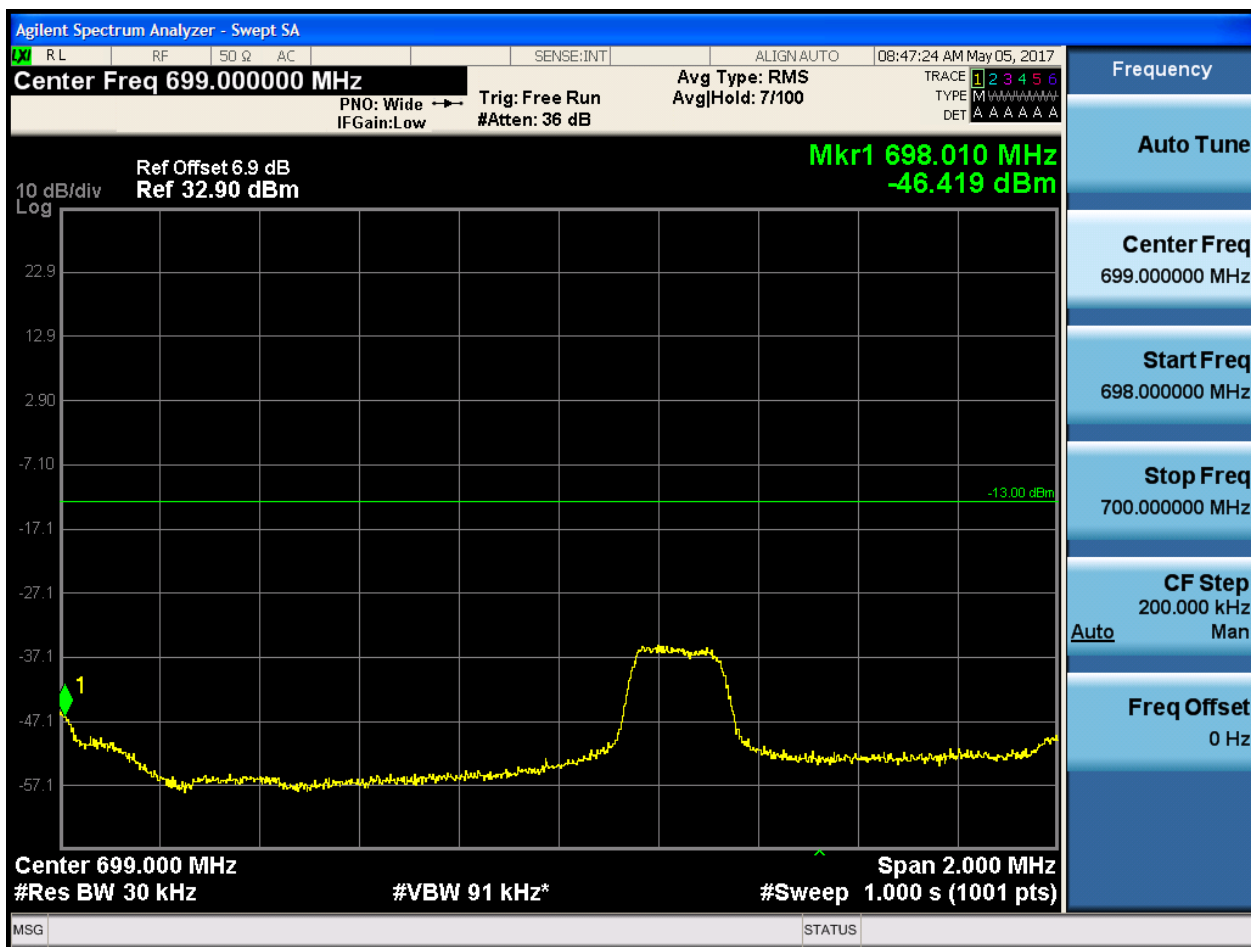
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#14



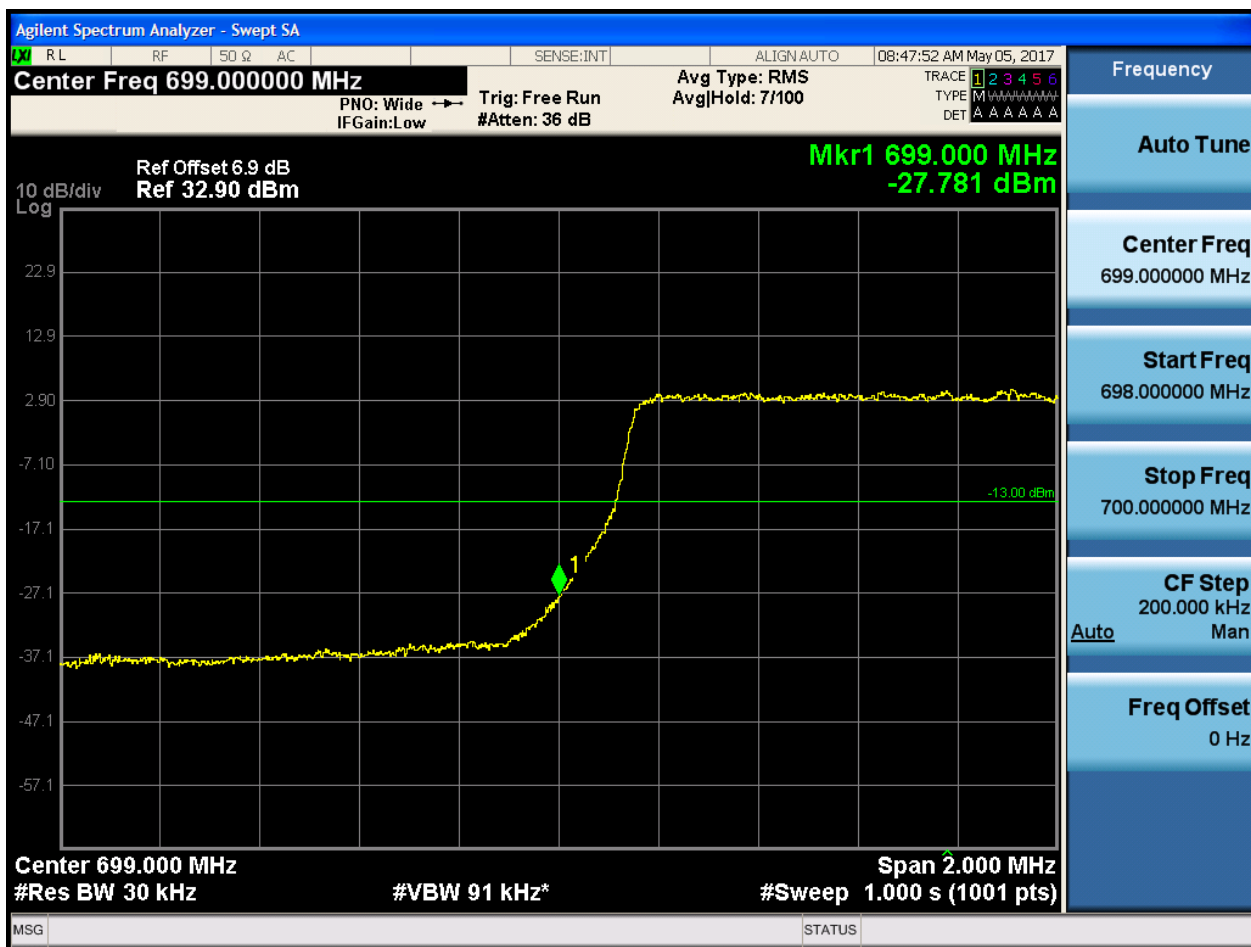


5.1.1.1.2.1.3 Test RB = RB8#4





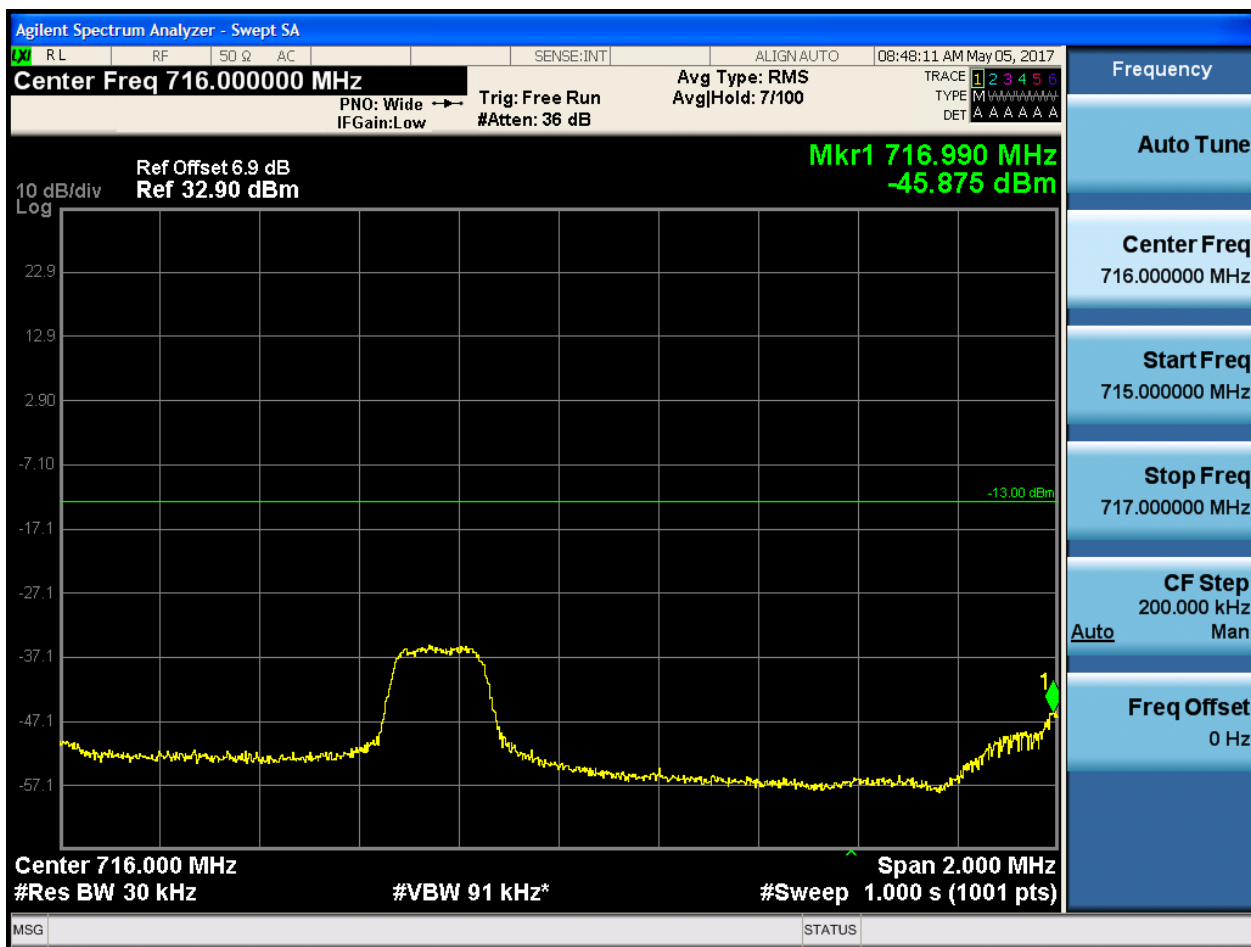
5.1.1.1.2.1.4 Test RB = RB15#0





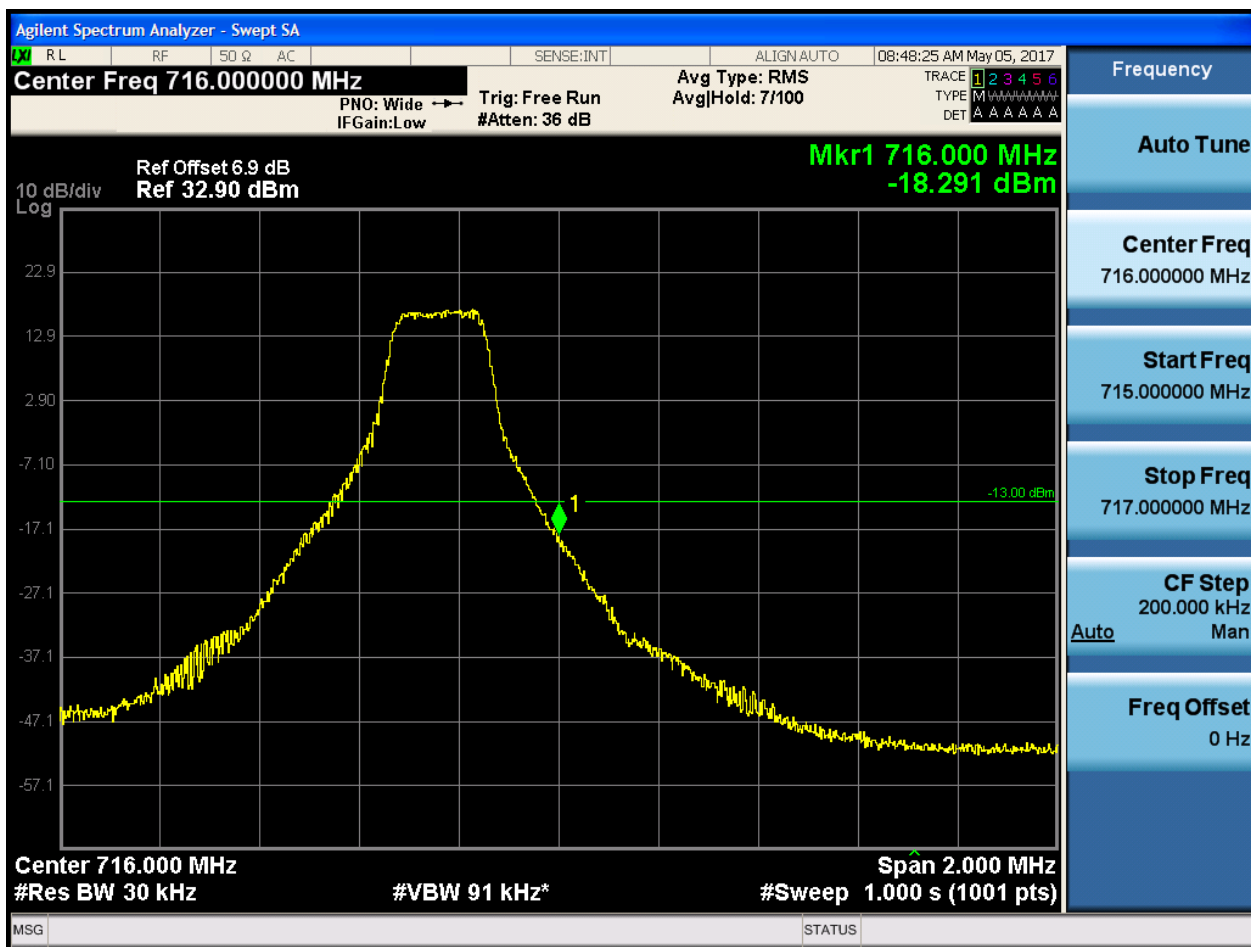
5.1.1.1.2.2 Test Channel = HCH

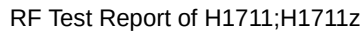
5.1.1.1.2.2.1 Test RB = RB1#0





5.1.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:48:39 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide → Trig: Free Run AvgHold: 8/100
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 6.9 dB
Ref 32.90 dBm

**Mkr1 716.030 MHz
-33.618 dBm**

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

-13.00 dBm

Center 716.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*

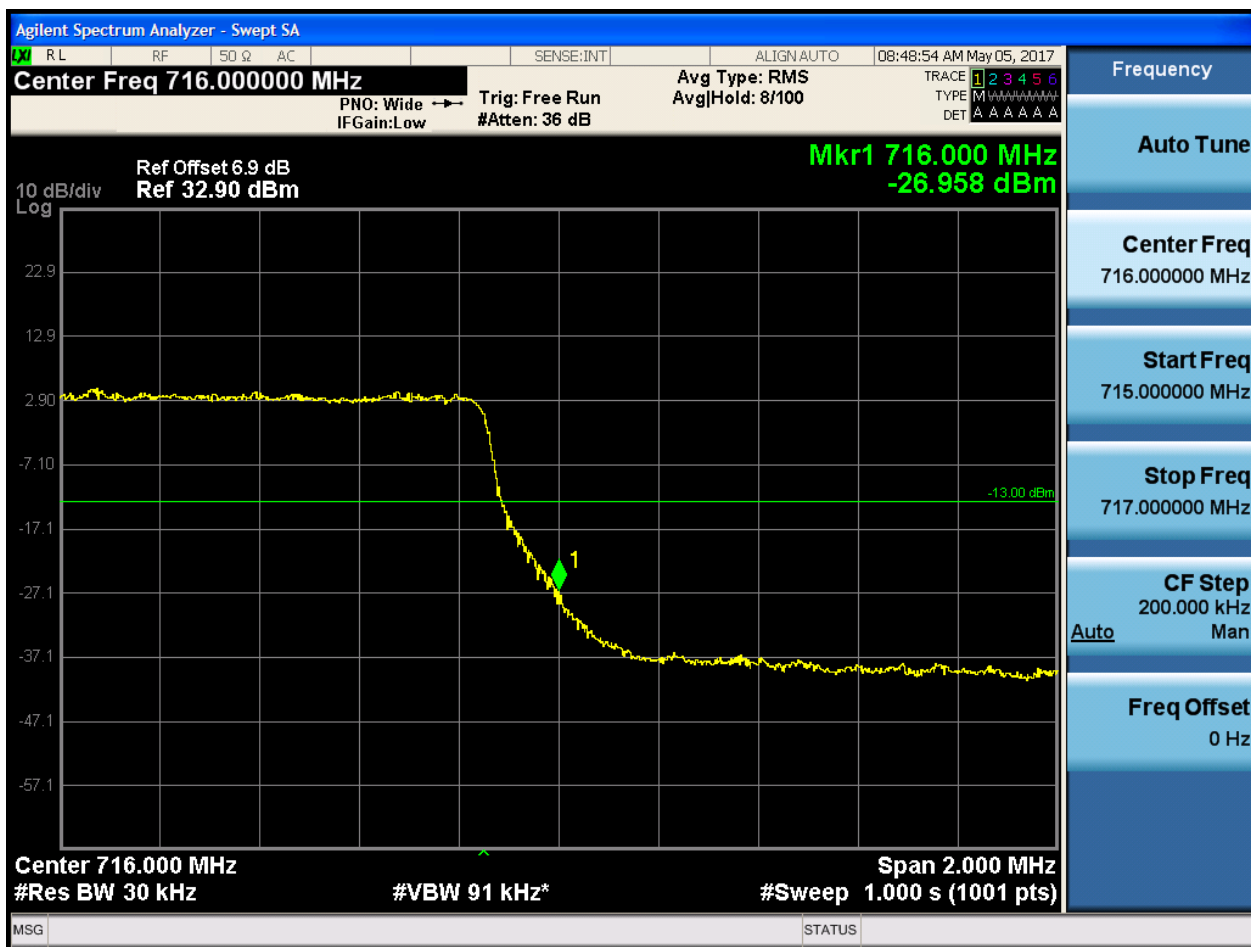
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency	
Auto Tune	
Center Freq	716.000000 MHz
Start Freq	715.000000 MHz
Stop Freq	717.000000 MHz
CF Step	200.000 kHz
Auto	Man
Freq Offset	0 Hz

MSG STATUS



5.1.1.1.2.2.4 Test RB = RB15#0

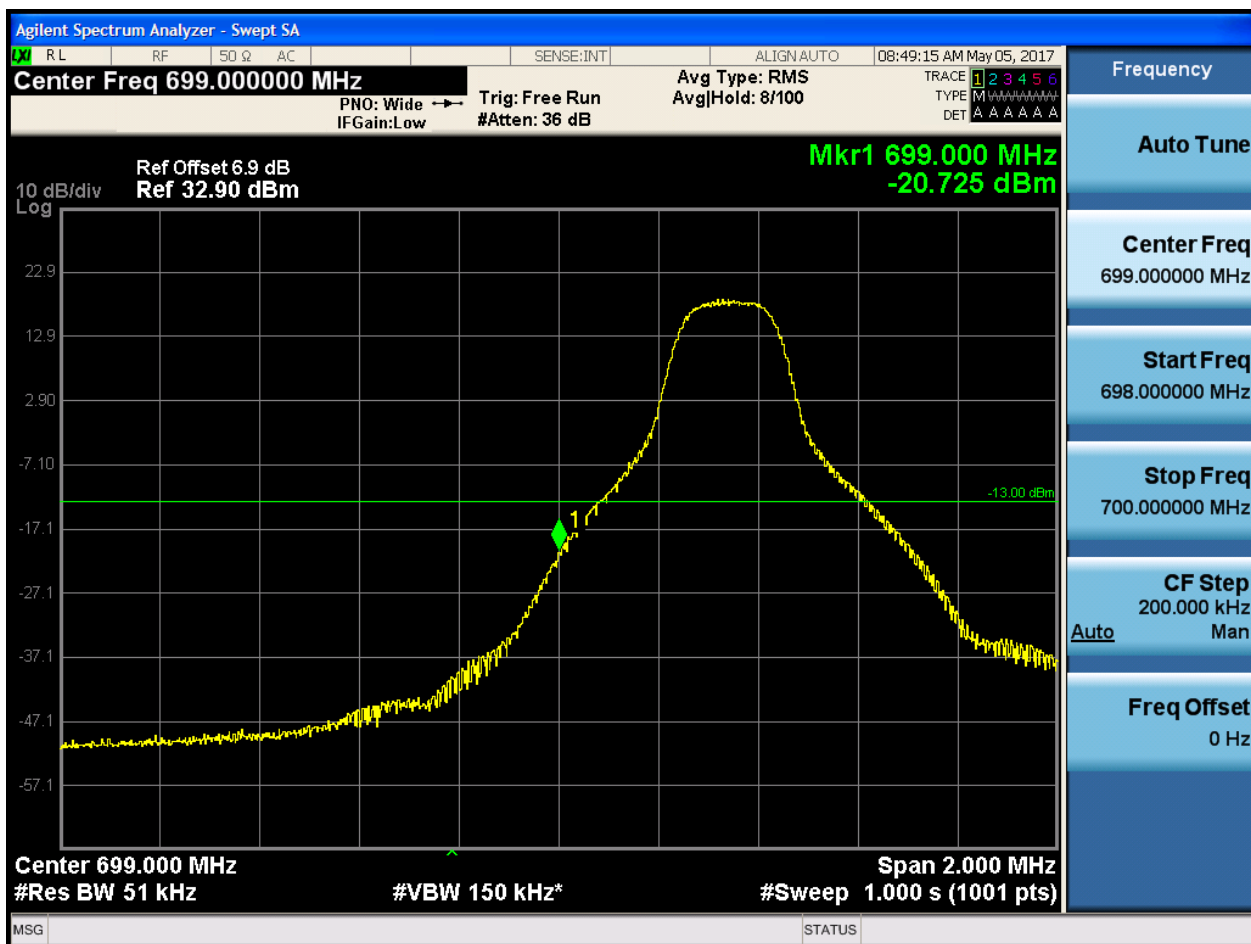




5.1.1.1.3 Test Bandwidth = 5

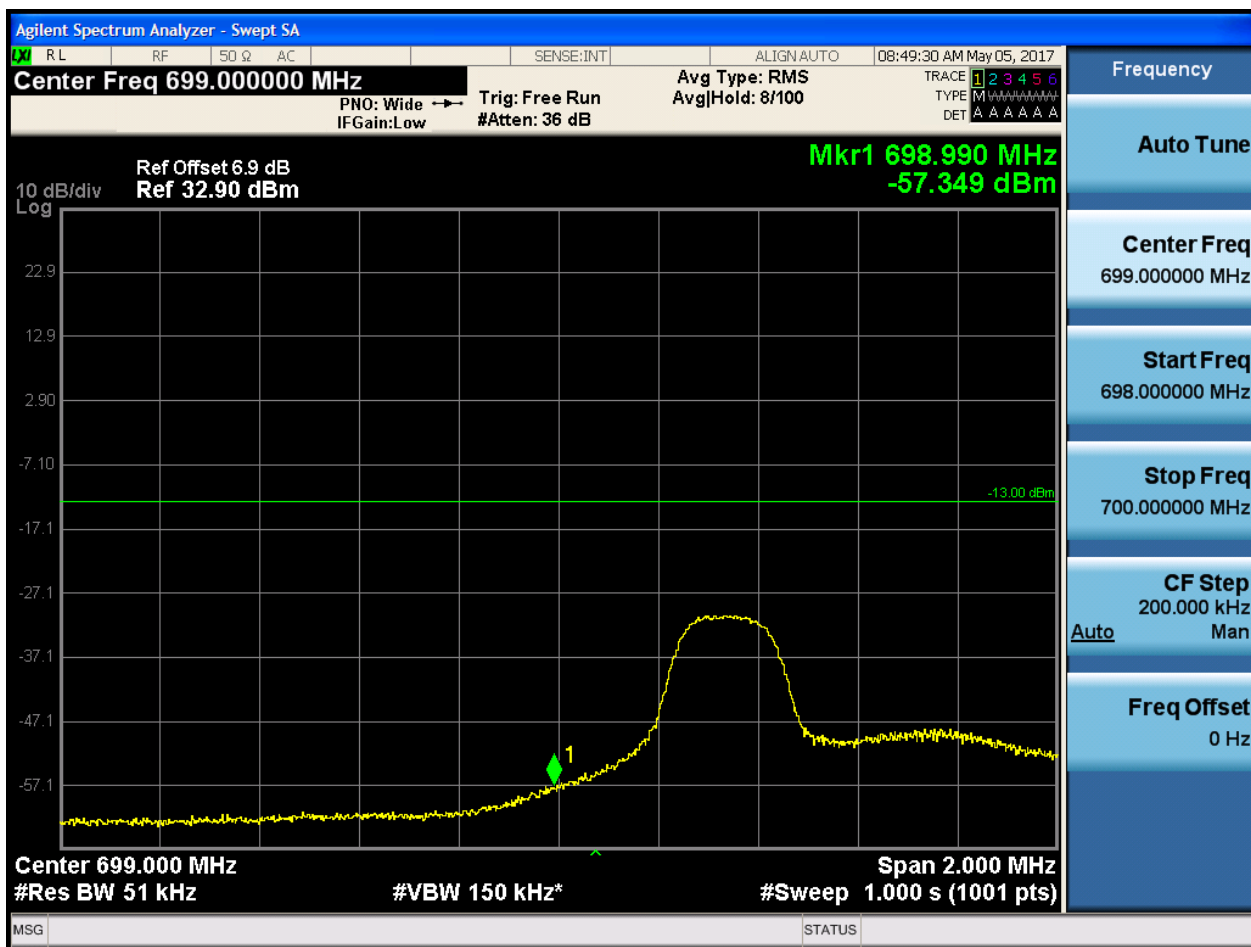
5.1.1.1.3.1 Test Channel = LCH

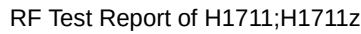
5.1.1.1.3.1.1 Test RB = RB1#0





5.1.1.1.3.1.2 Test RB = RB1#24





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 32.90 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-35.417 dBm

Center 699.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

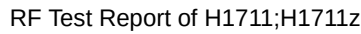
Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 32.90 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-28.581 dBm

Center 699.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 150 kHz*

Trig: Free Run
#Atten: 36 dB

PNO: Wide
IFGain: Low

Avg Type: RMS
Avg/Hold: 8/100

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
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

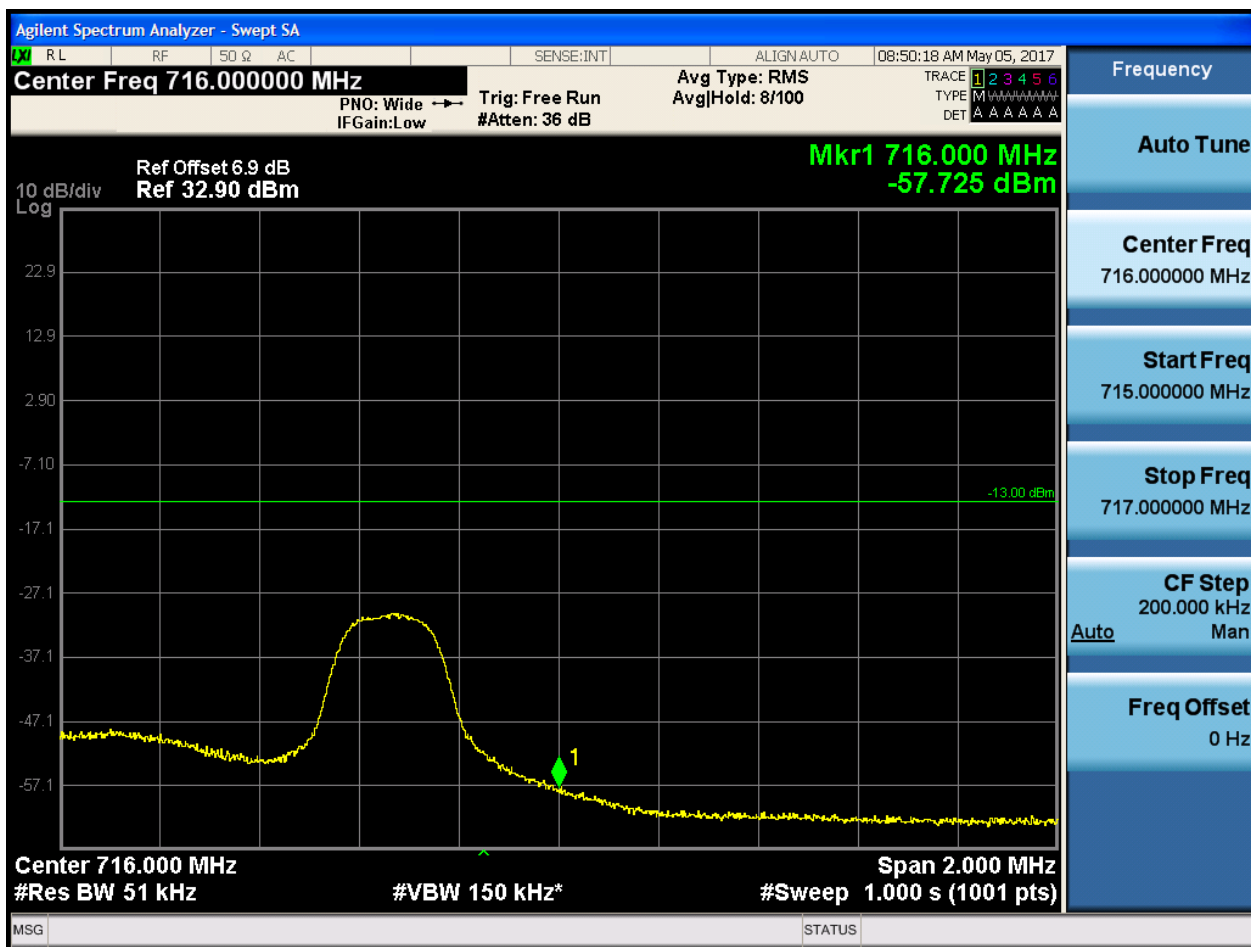
Freq Offset
0 Hz

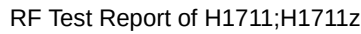
MSG STATUS



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 08:50:33 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
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

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 716.000 MHz
-21.048 dBm

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

-13.00 dBm

Center 716.000 MHz
#Res BW 51 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 150 kHz*

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

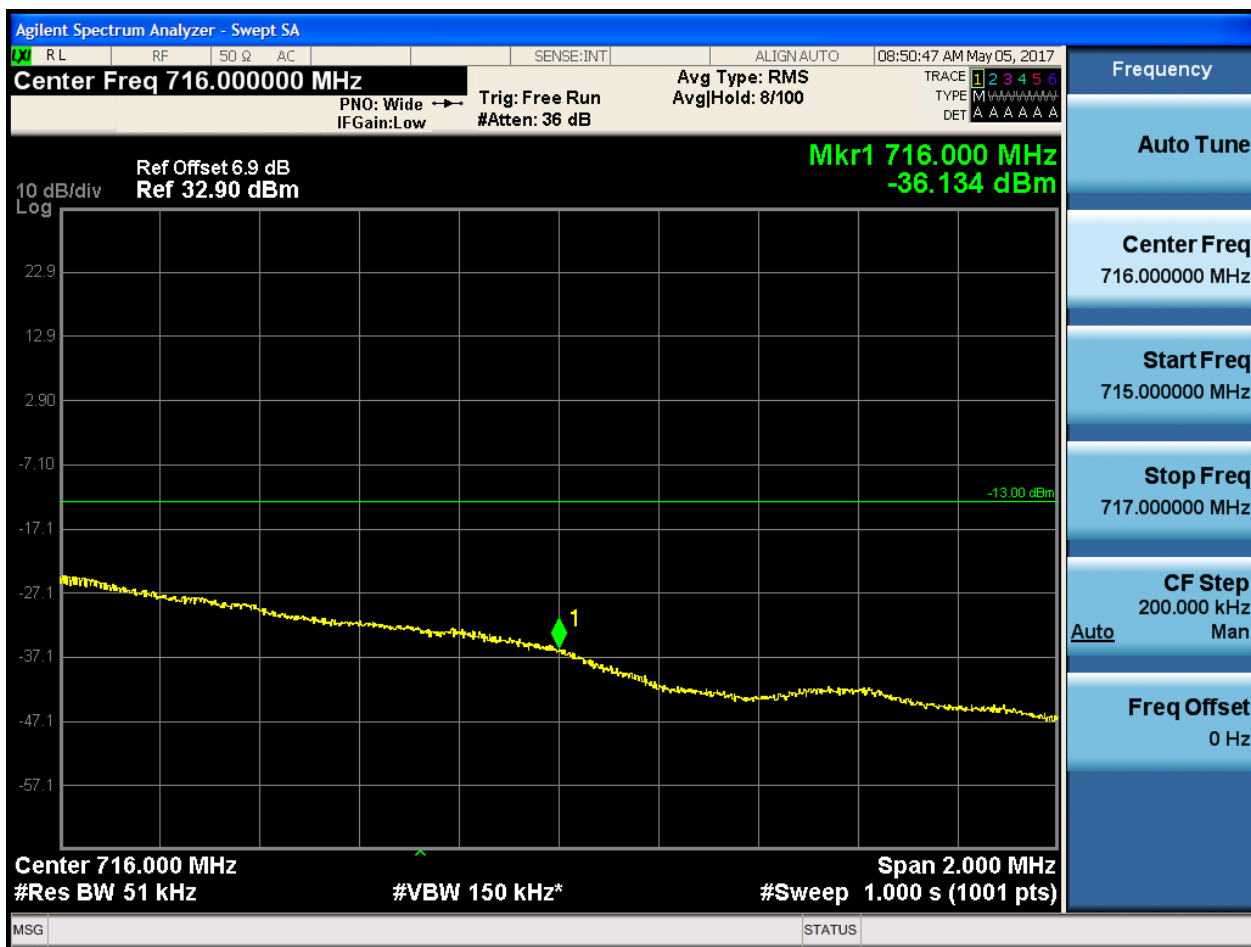
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

MSG STATUS



5.1.1.1.3.2.3 Test RB = RB12#6





5.1.1.1.3.2.4 Test RB = RB25#0

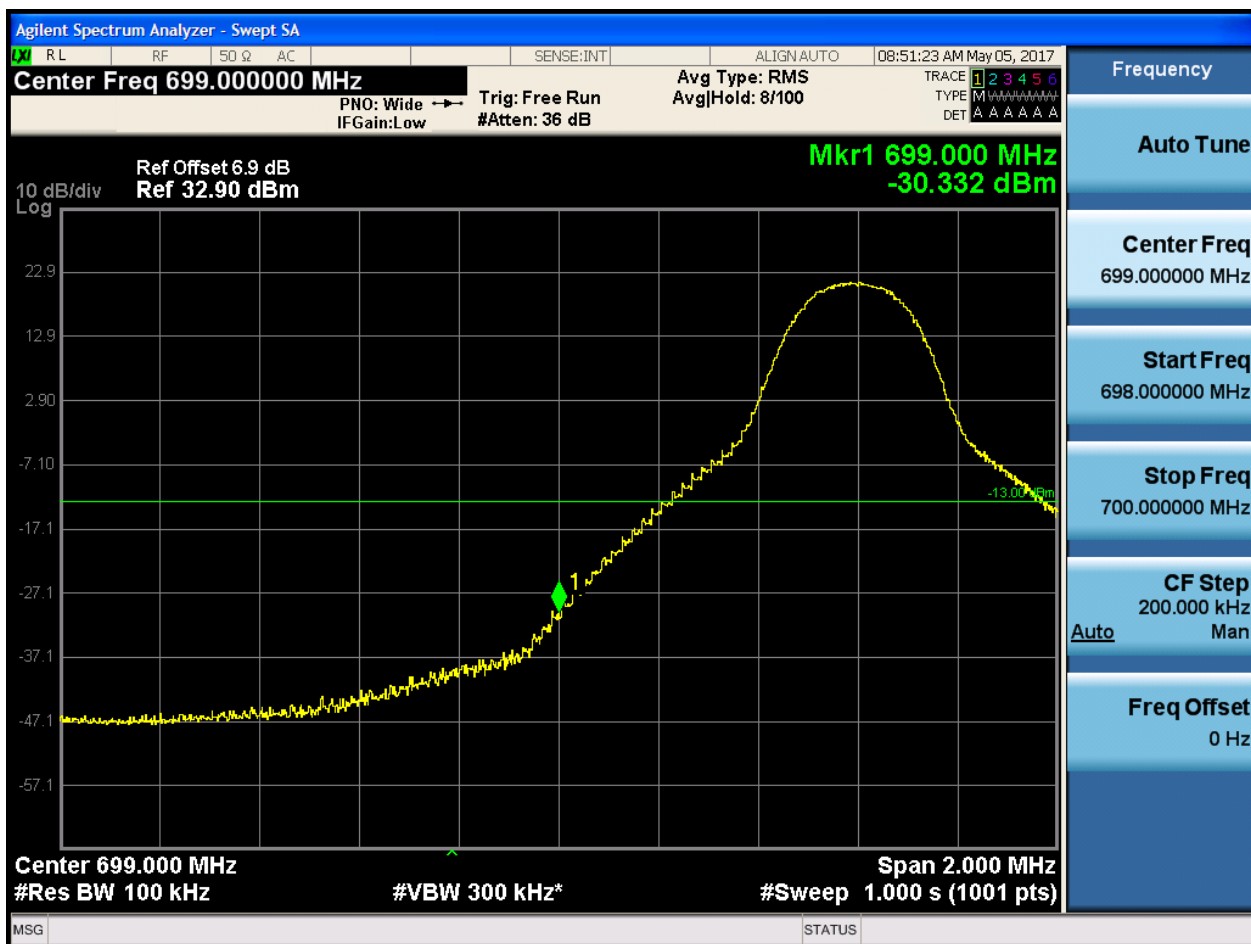




5.1.1.1.4 Test Bandwidth = 10

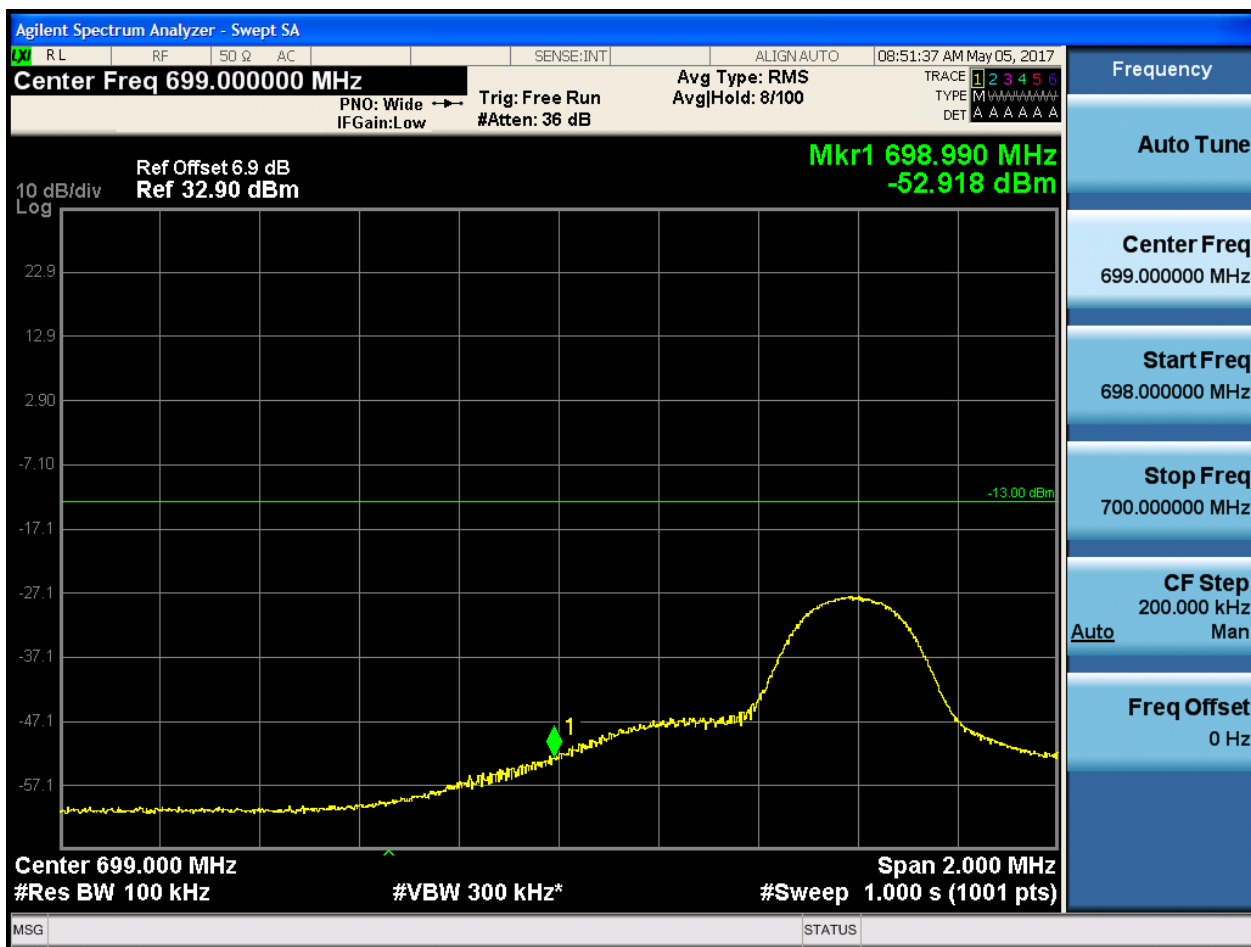
5.1.1.1.4.1 Test Channel = LCH

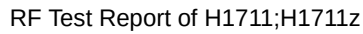
5.1.1.1.4.1.1 Test RB = RB1#0





5.1.1.1.4.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 32.90 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Msg

STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

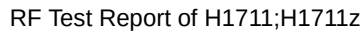
CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz

Mkr1 698.940 MHz
-36.006 dBm

-13.00 dBm

Frequency	Power (dBm)
698.940 MHz	-36.006 dBm



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:52:06 AM May 05, 2017

Center Freq 699.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#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 6.9 dB
Ref 32.90 dBm

Mkr1 698.990 MHz
-31.508 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

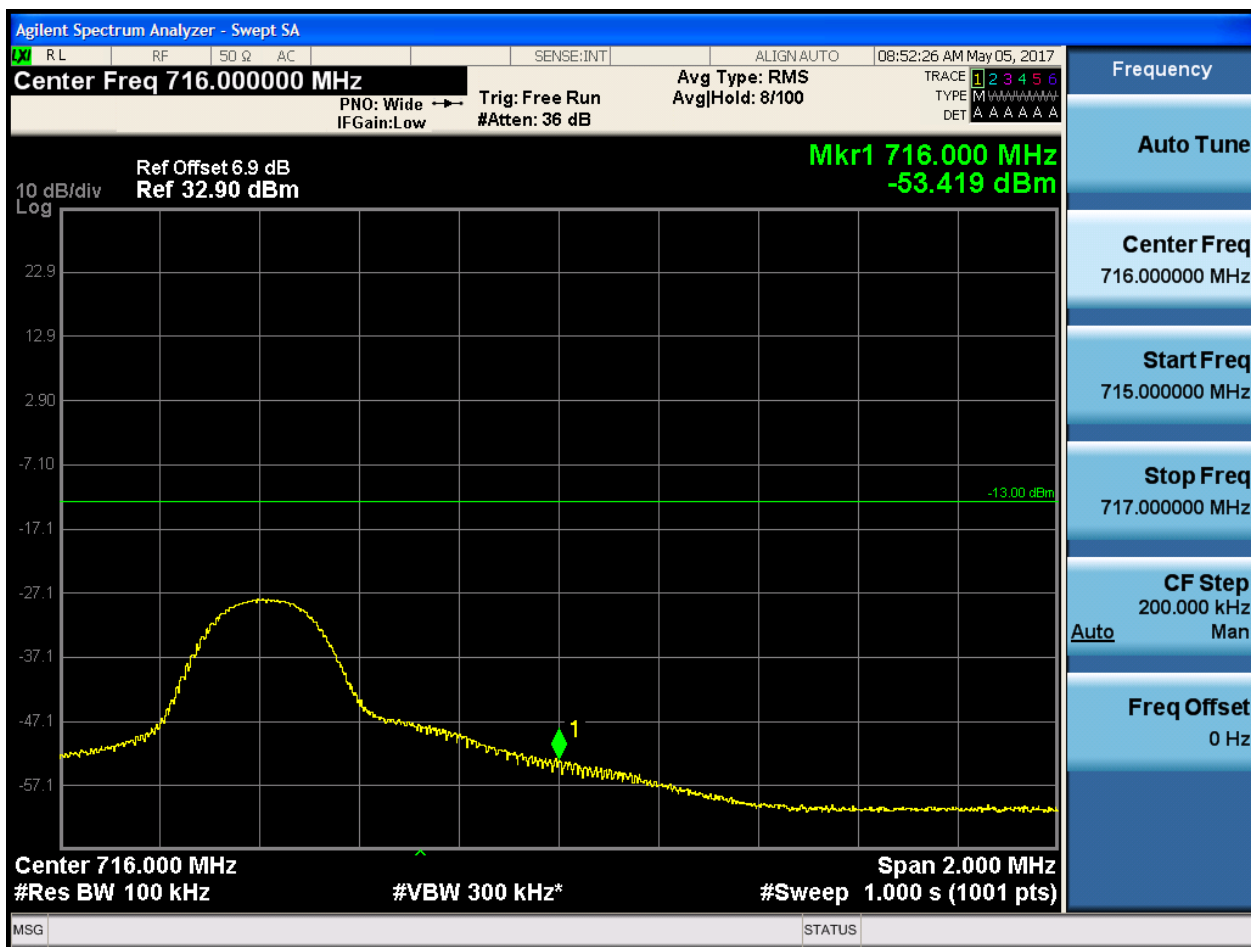
CF Step
200.000 kHz
Auto Man

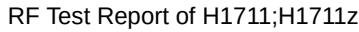
Freq Offset
0 Hz



5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:52:40 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 716.000 MHz
-30.101 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 100 kHz

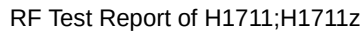
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

5.1.1.1.4.2.3 Test RB = RB25#13





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:53:09 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 716.010 MHz
-32.788 dBm

10 dB/div
Log

Center Freq 716.000000 MHz
Start Freq 715.000000 MHz
Stop Freq 717.000000 MHz
CF Step 200.000 kHz
Auto Man
Freq Offset 0 Hz

Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

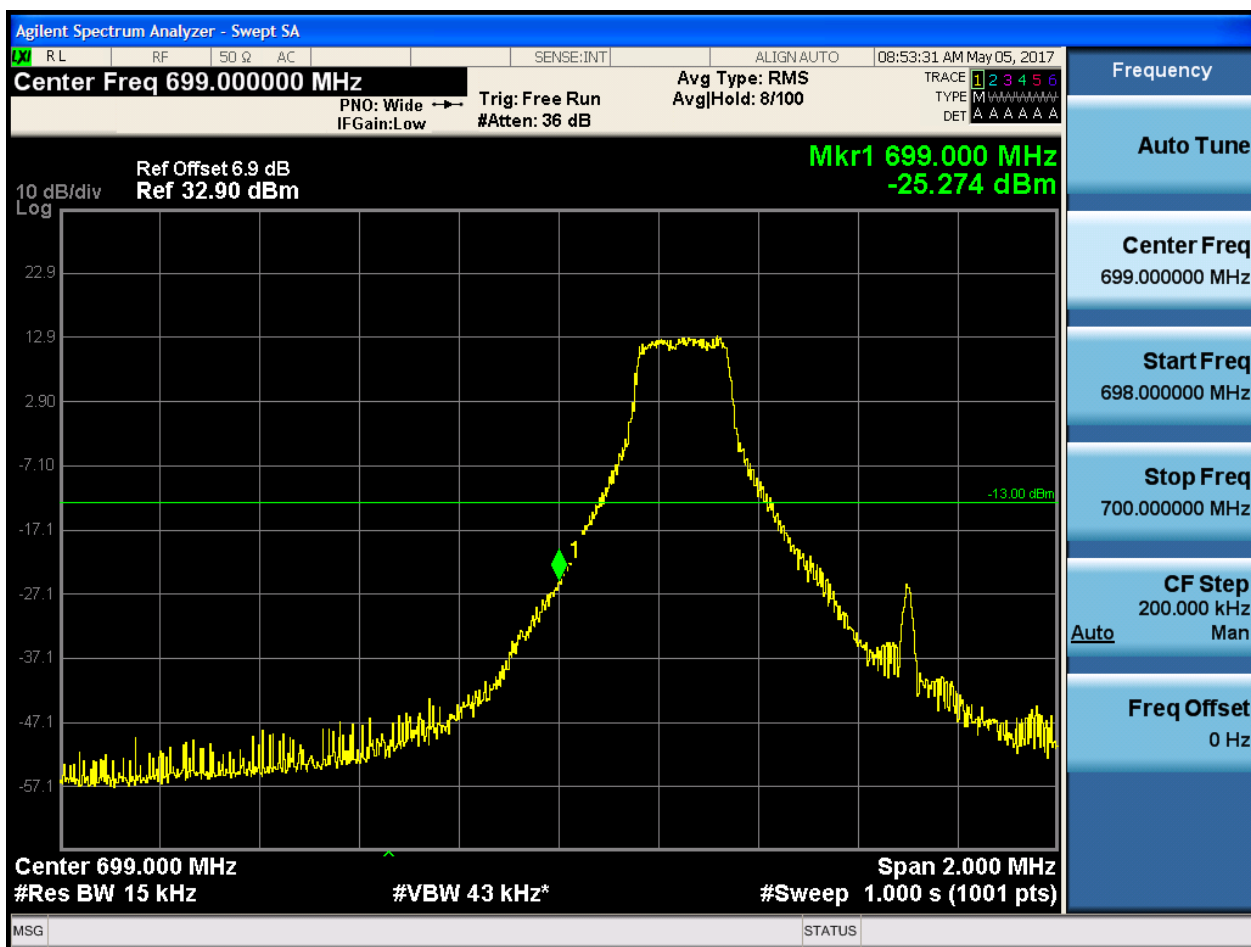


5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

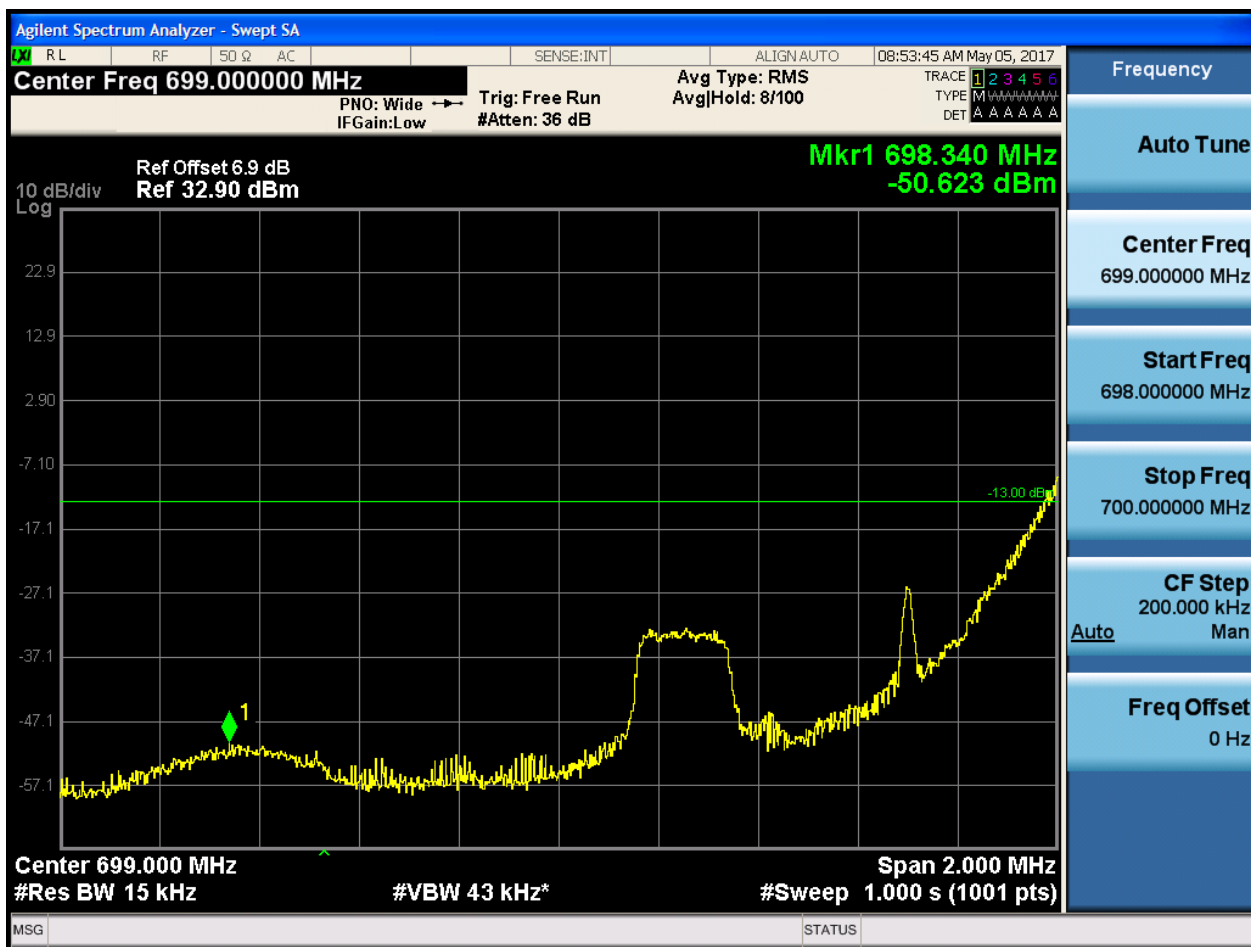
5.1.1.2.1.1 Test Channel = LCH

2.1.1.2.1.1.1 Test RB = RB1#0



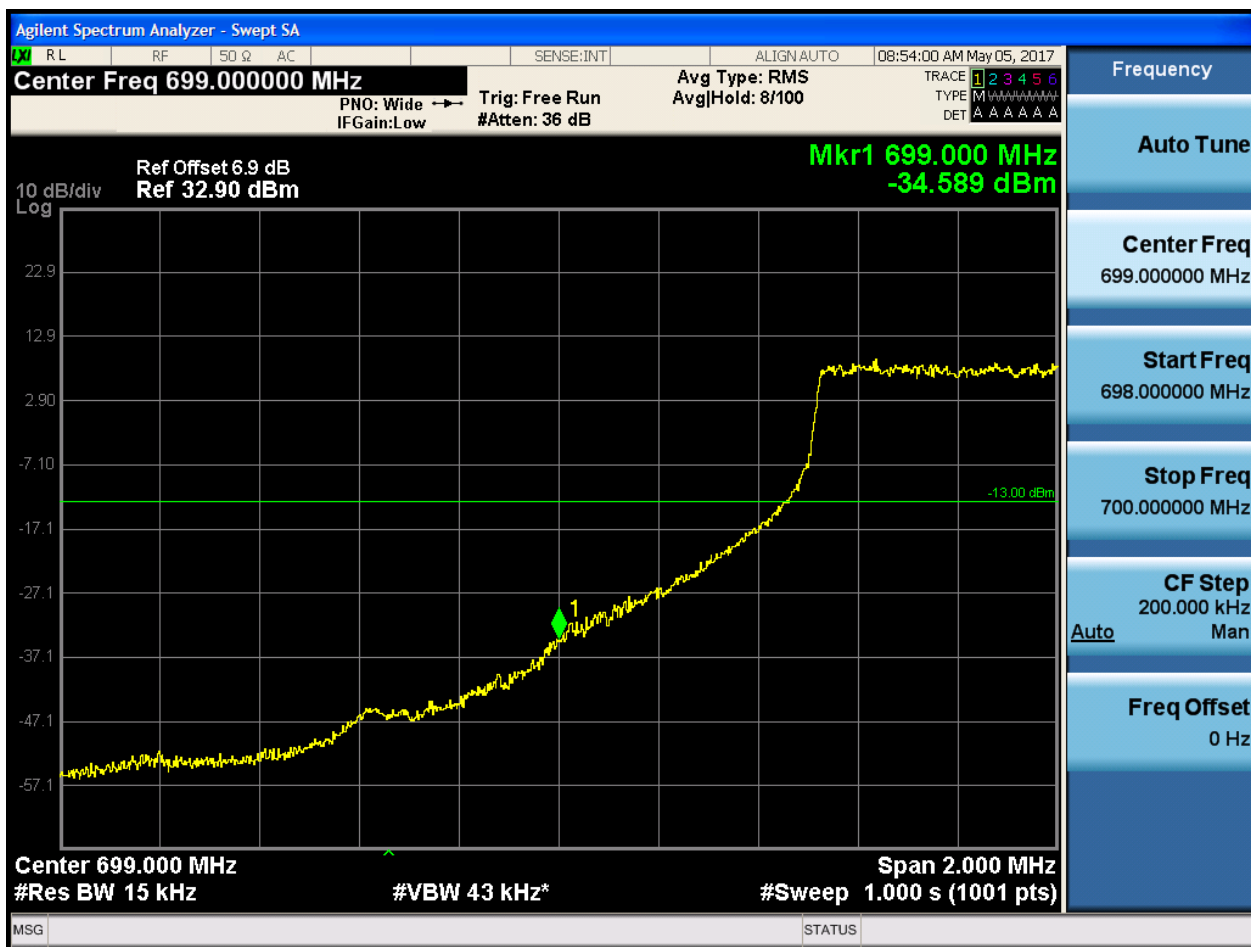


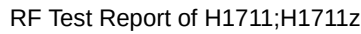
5.1.1.2.1.1.2 Test RB = RB1#5





5.1.1.2.1.1.3 Test RB = RB3#2





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:54:14 AM May 05, 2017

Center Freq 699.000000 MHz Avg Type: RMS
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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 699.000 MHz
-31.372 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 15 kHz
#VBW 43 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG Alignment Completed STATUS

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



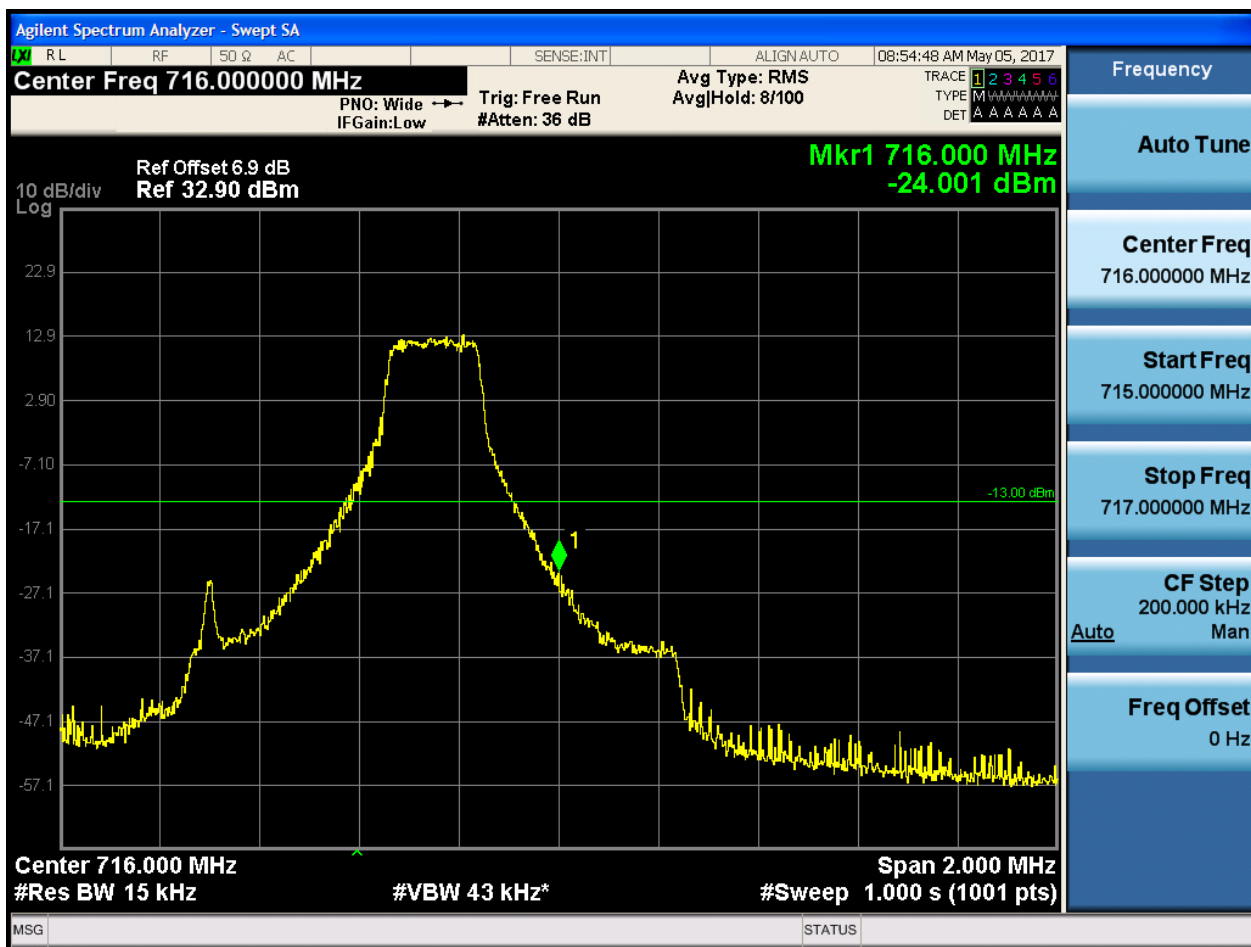
5.1.1.2.1.2 Test Channel = HCH

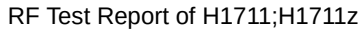
5.1.1.2.1.2.1 Test RB = RB1#0





5.1.1.2.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:55:02 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
 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

Ref Offset 6.9 dB
 Ref 32.90 dBm

Mkr1 716.000 MHz
 -29.007 dBm

10 dB/div
 Log

Center 716.000 MHz
 #Res BW 15 kHz
 #VBW 43 kHz*
 Span 2.000 MHz
 #Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency

Auto Tune

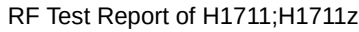
Center Freq
 716.000000 MHz

Start Freq
 715.000000 MHz

Stop Freq
 717.000000 MHz

CF Step
 200.000 kHz
 Auto Man

Freq Offset
 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	08:55:16 AM May 05, 2017
----	----	------	----	-----------	------------	--------------------------

Center Freq 716.000000 MHz

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

Avg Type: RMS
Avg/Hold: 8/100

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 6.9 dB
Ref 32.90 dBm

Mkr1 716.000 MHz
-30.946 dBm

10 dB/div Log

Center 716.000 MHz
#Res BW 15 kHz

#VBW 43 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

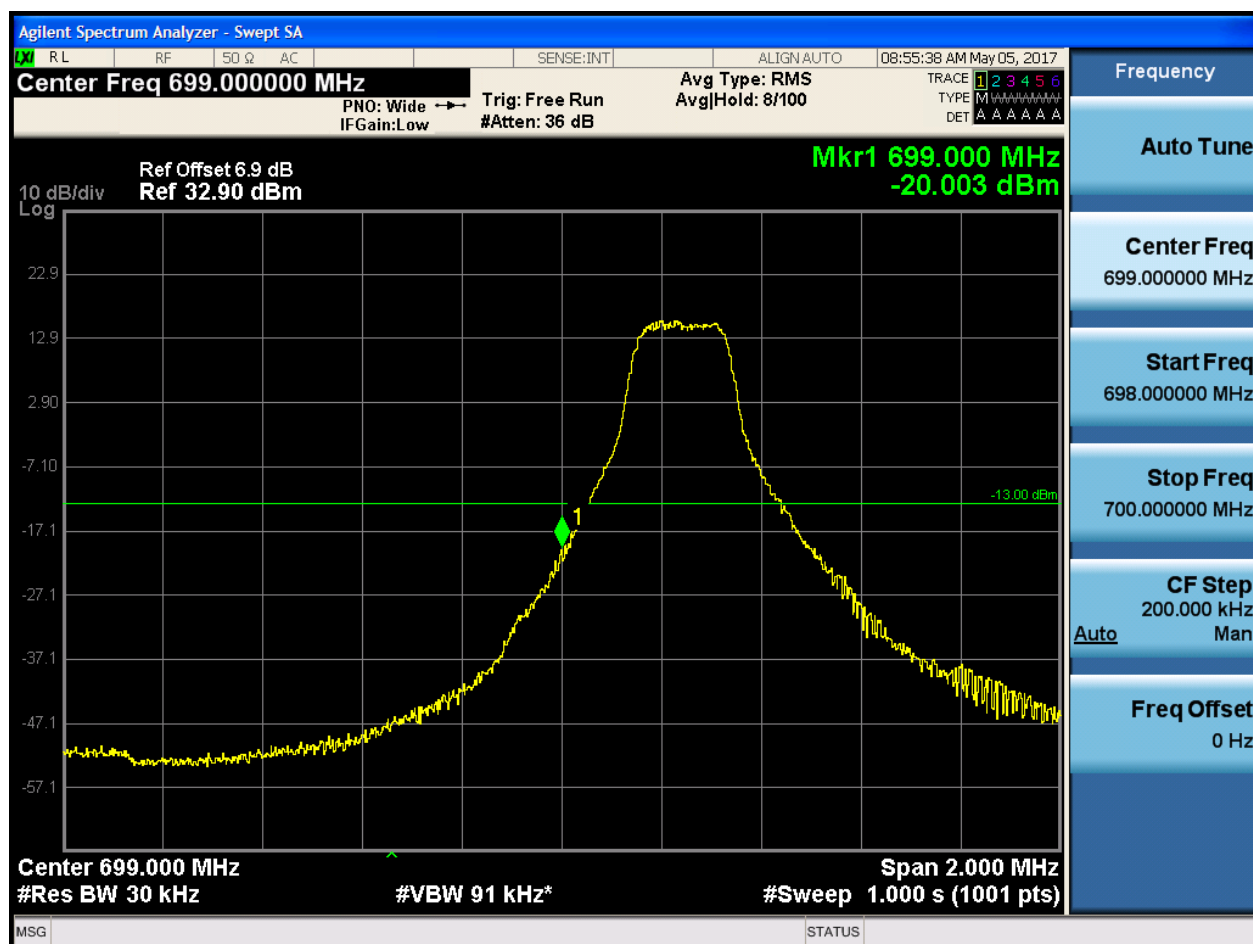
Frequency

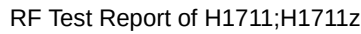
- Auto Tune
- Center Freq 716.000000 MHz
- Start Freq 715.000000 MHz
- Stop Freq 717.000000 MHz
- CF Step 200.000 kHz
Auto Man
- Freq Offset 0 Hz

5.1.1.2.2 Test Bandwidth = 3

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 08:55:53 AM May 05, 2017

Center Freq 699.000000 MHz Avg Type: RMS
 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

Ref Offset 6.9 dB
 Ref 32.90 dBm

Mkr1 698.010 MHz
 -46.871 dBm

10 dB/div
 Log

Center 699.000 MHz
 #Res BW 30 kHz
 #VBW 91 kHz
 Span 2.000 MHz
 #Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
 699.000000 MHz

Start Freq
 698.000000 MHz

Stop Freq
 700.000000 MHz

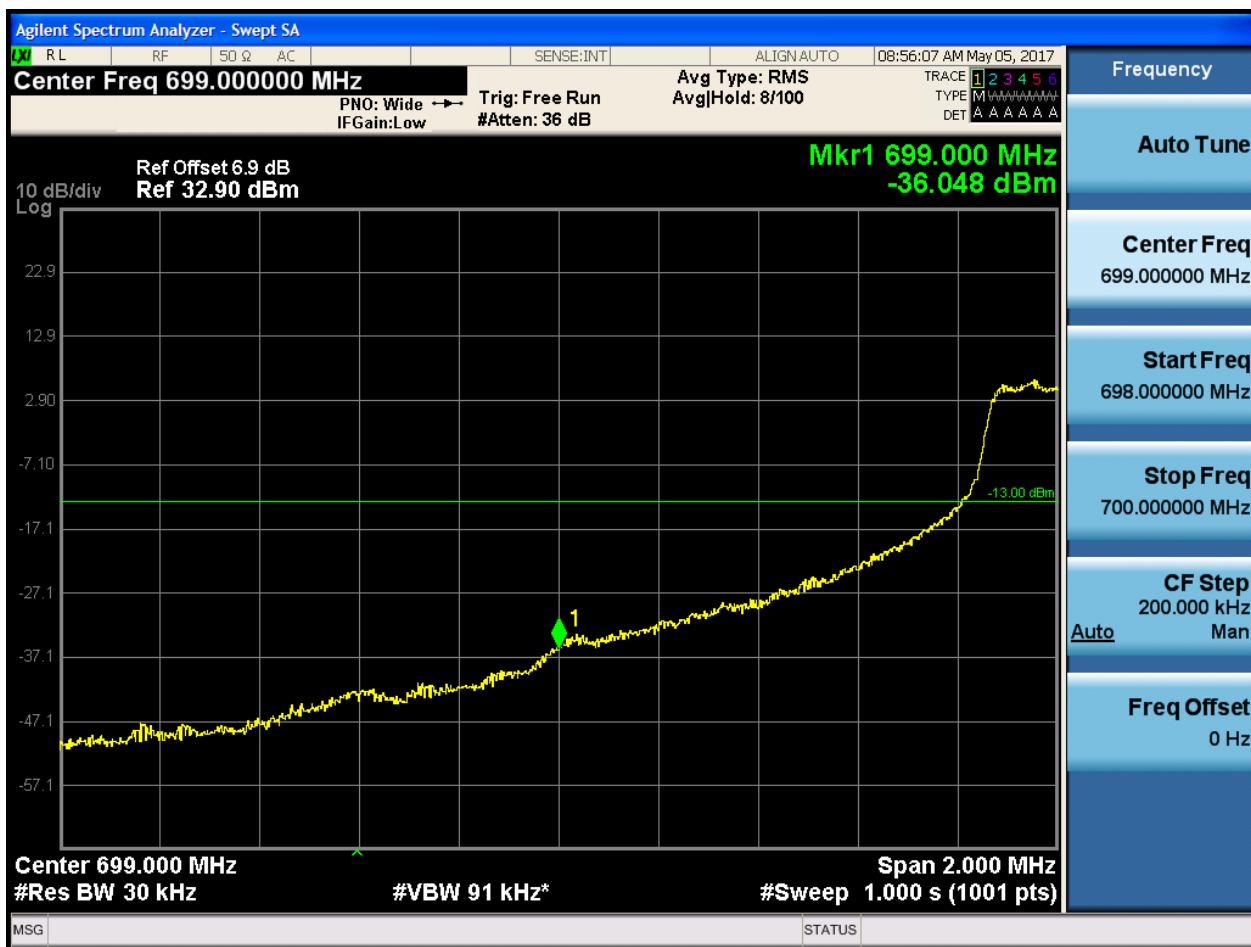
CF Step
 200.000 kHz
 Auto Man

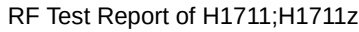
Freq Offset
 0 Hz

MSG STATUS



5.1.1.2.2.1.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 32.90 dBm

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

Center 699.000 MHz
#Res BW 30 kHz

#VBW 91 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Trig: Free Run
#Atten: 36 dB

Avg Type: RMS
Avg/Hold: 8/100

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

Mkr1 699.000 MHz
-28.742 dBm

-13.00 dBm

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

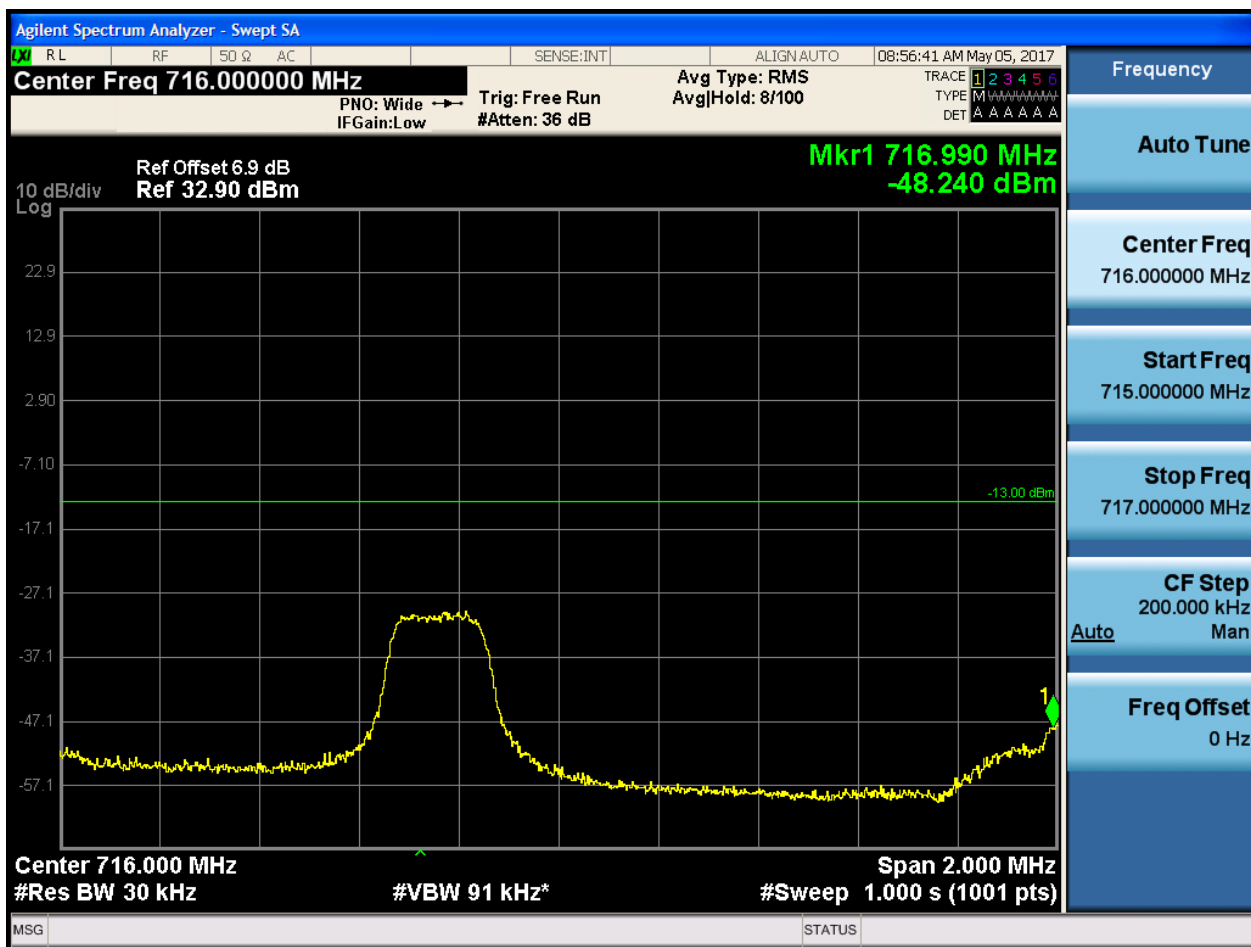
Freq Offset
0 Hz

MSG STATUS

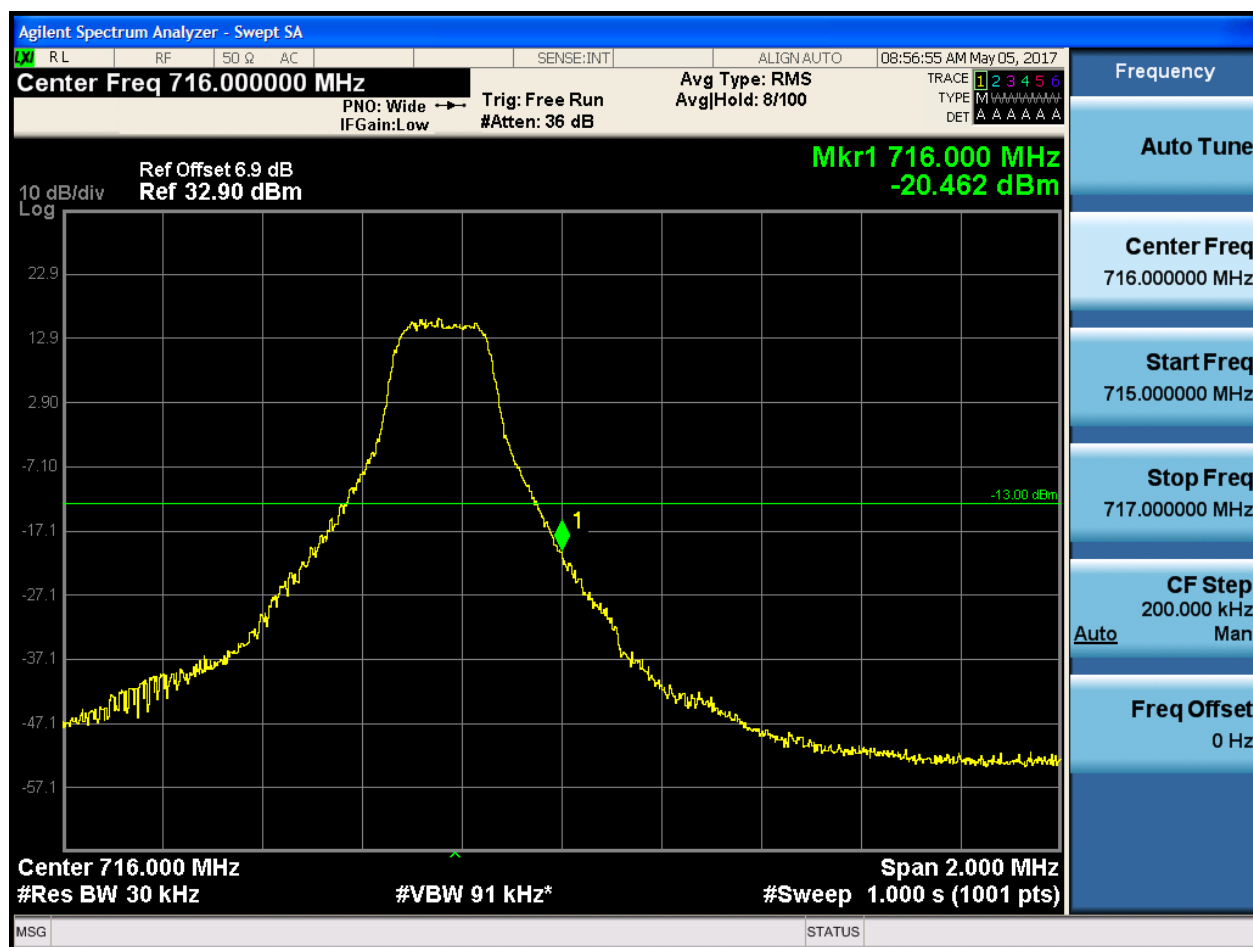


5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0

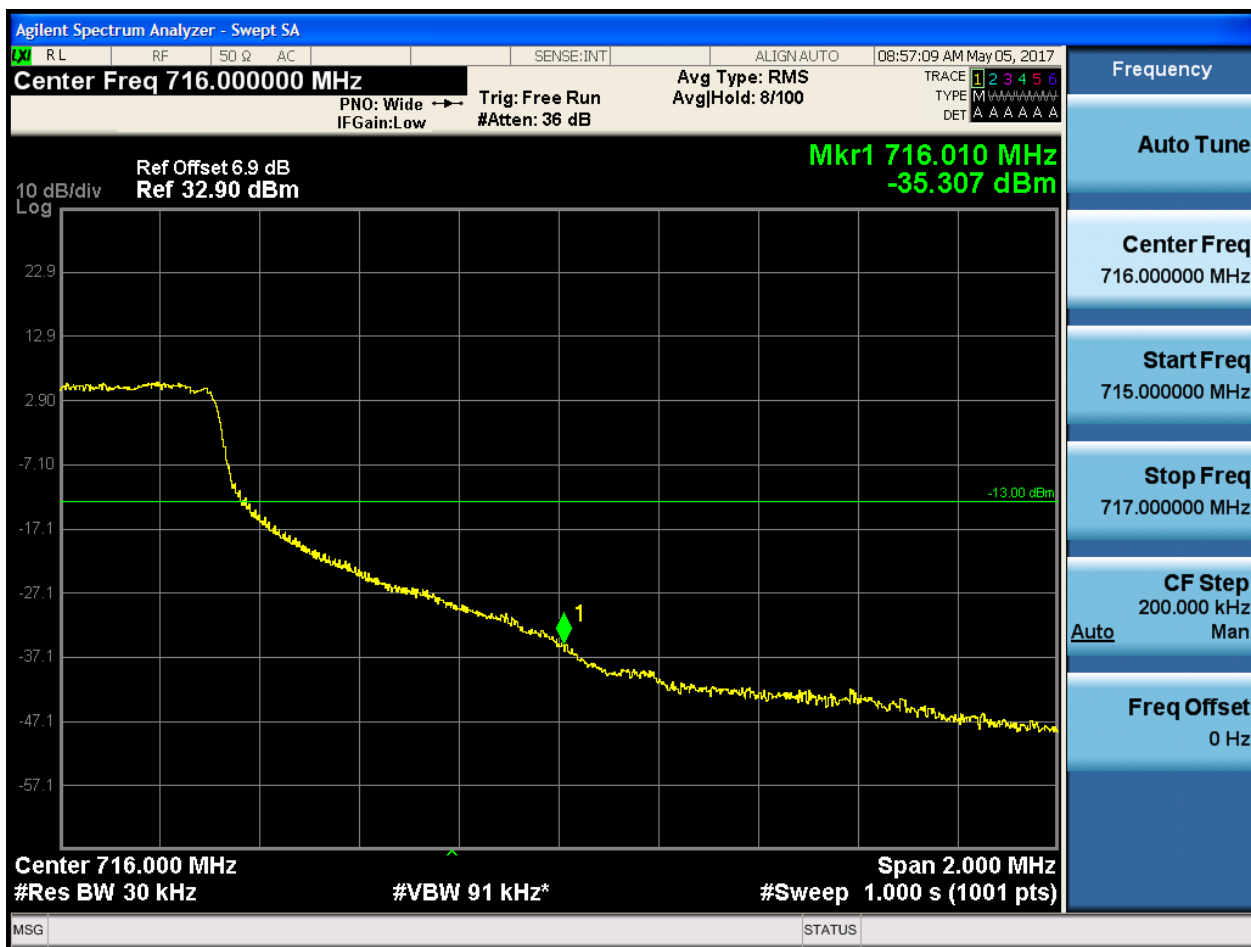


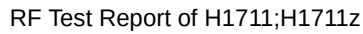
5.1.1.2.2.2.2 Test RB = RB1#14





5.1.1.2.2.3 Test RB = RB8#4





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:57:24 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#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 6.9 dB
Ref 32.90 dBm

Mkr1 716.000 MHz
-30.019 dBm

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

-13.00 dBm

Center 716.000 MHz
#Res BW 30 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 91 kHz*

Frequency

Auto Tune

Center Freq
716.000000 MHz

Start Freq
715.000000 MHz

Stop Freq
717.000000 MHz

CF Step
200.000 kHz
Auto Man

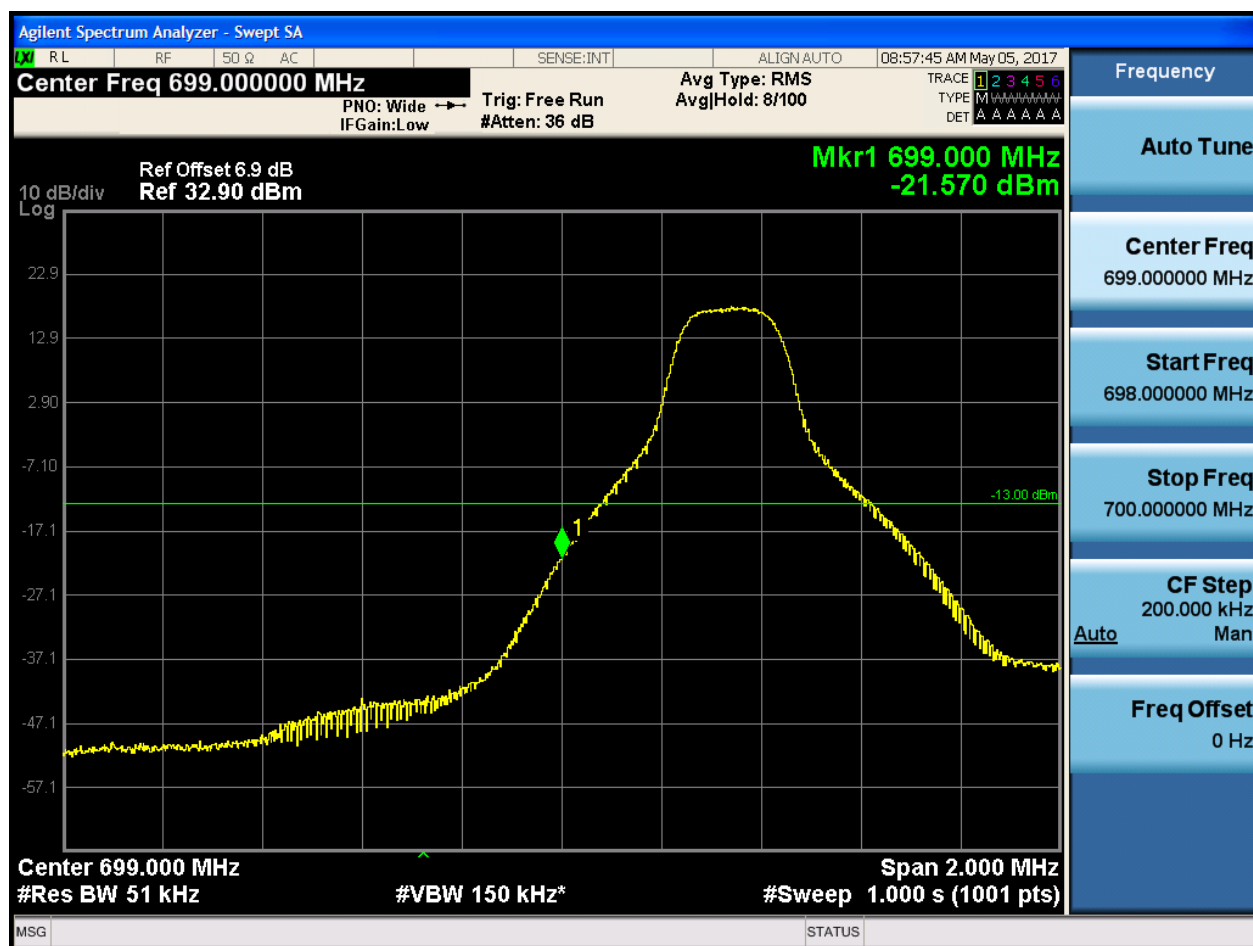
Freq Offset
0 Hz

MSG STATUS

5.1.1.2.3 Test Bandwidth = 5

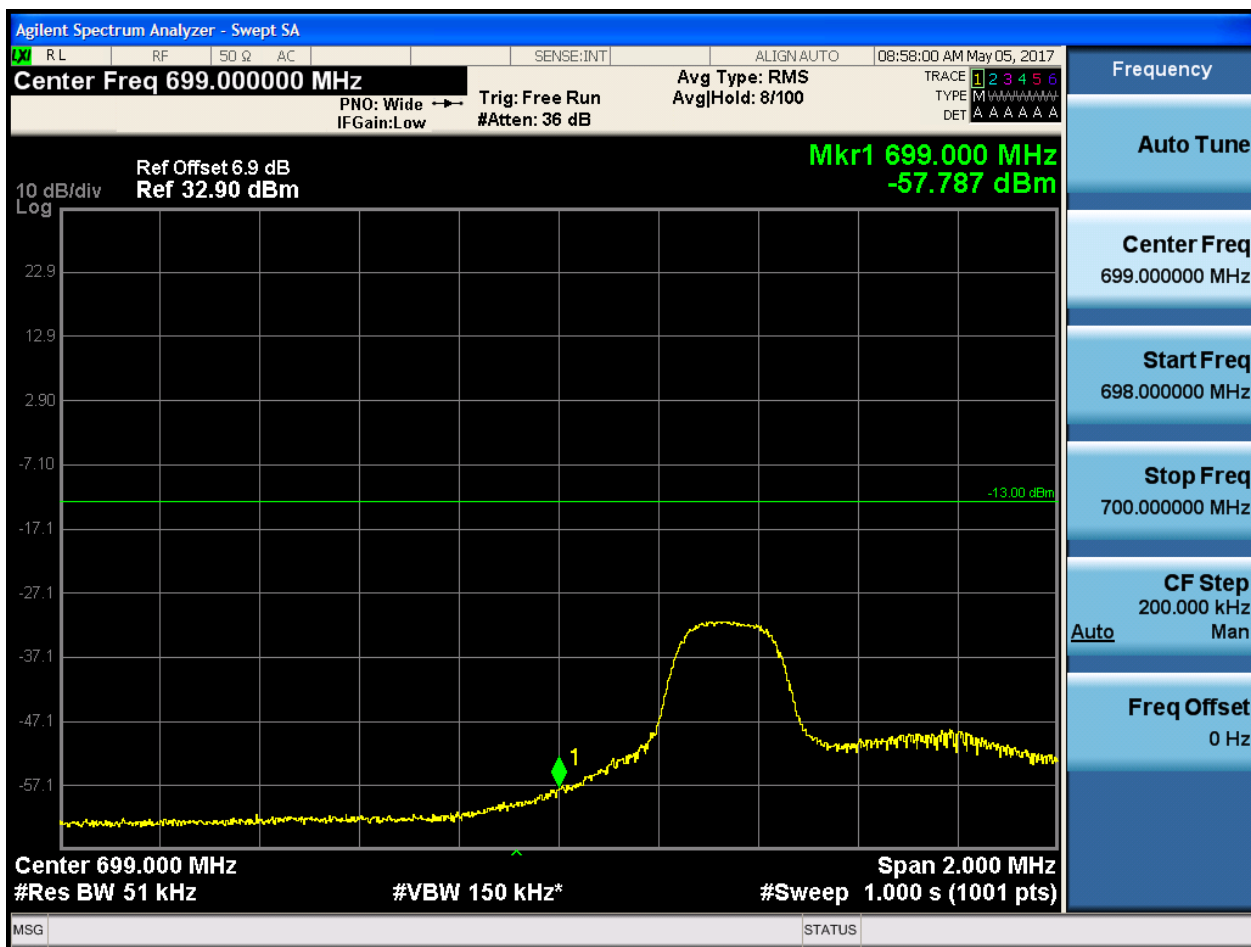
5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0



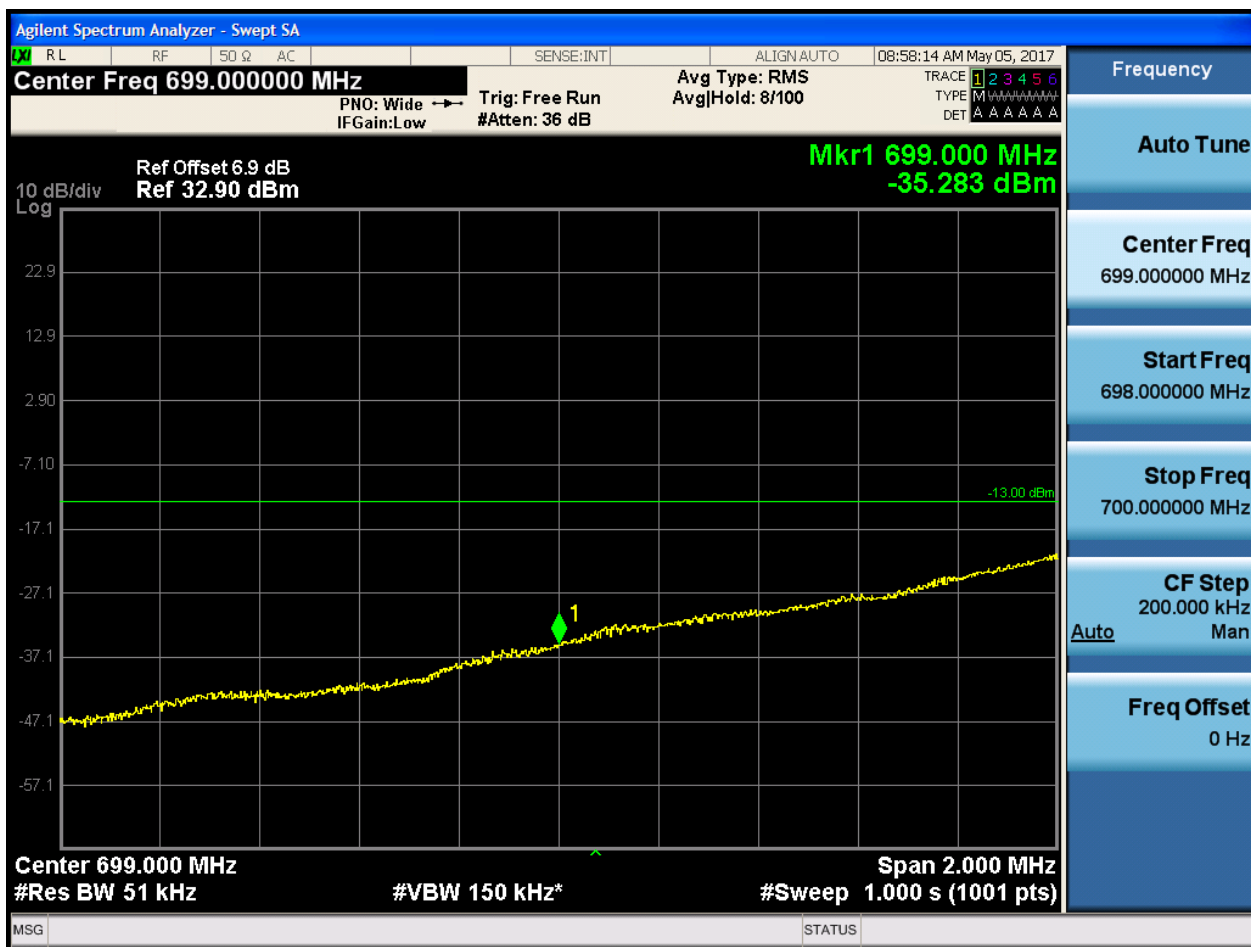


5.1.1.2.3.1.2 Test RB = RB1#24



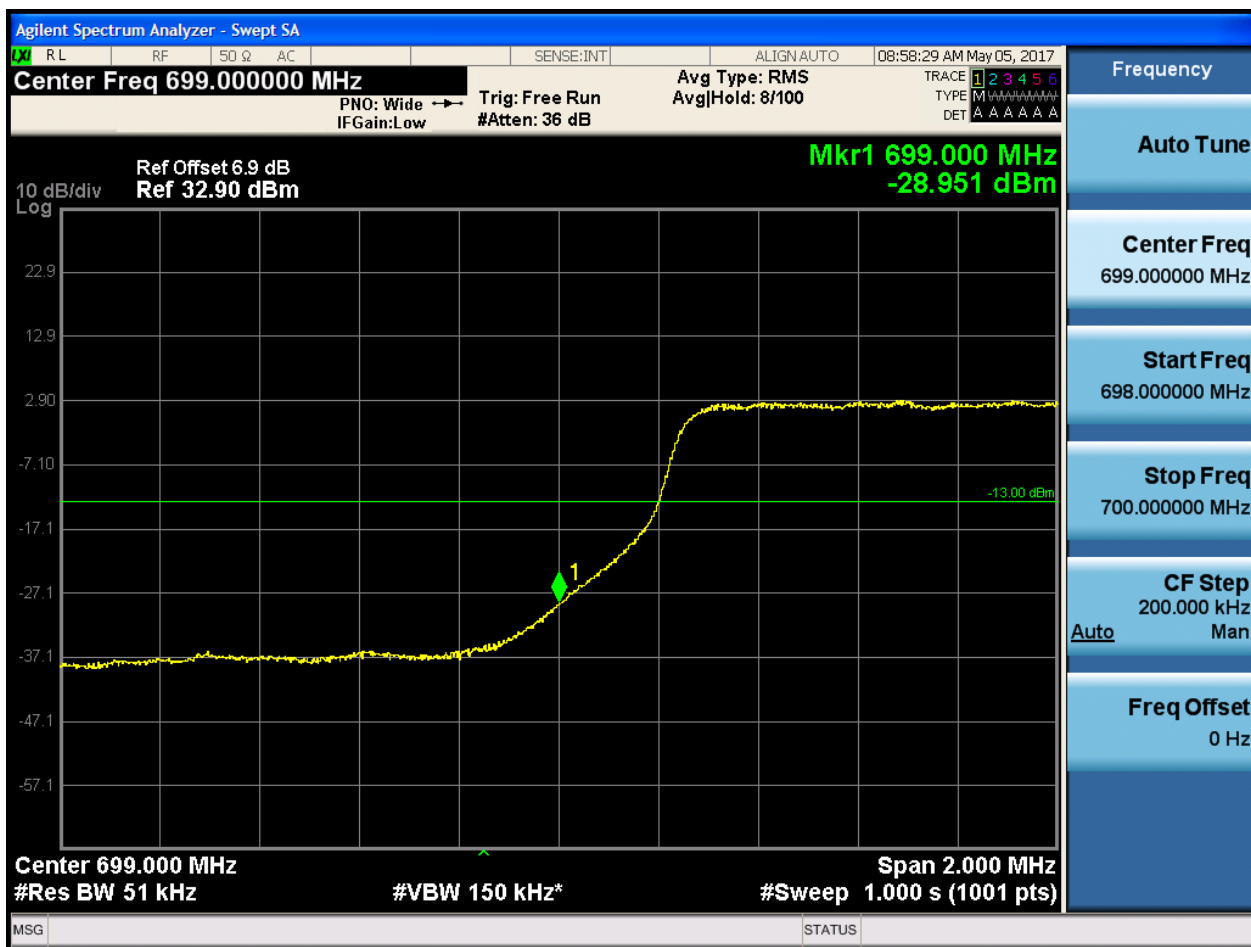


5.1.1.2.3.1.3 Test RB = RB12#6





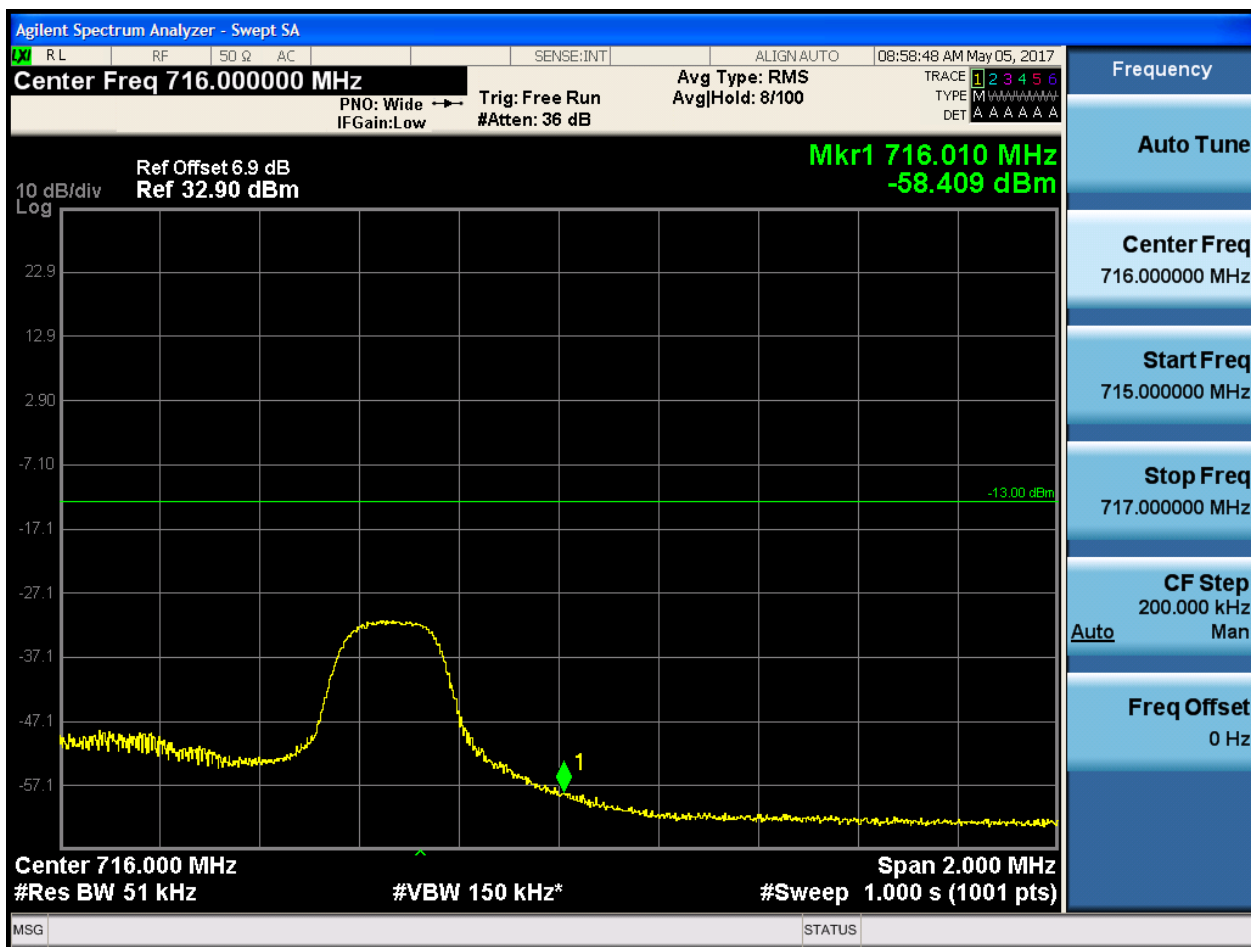
5.1.1.2.3.1.4 Test RB = RB25#0

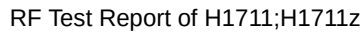




5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 08:59:03 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
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 6.9 dB
Ref 32.90 dBm

Mkr1 716.000 MHz
-21.869 dBm

10 dB/div
Log

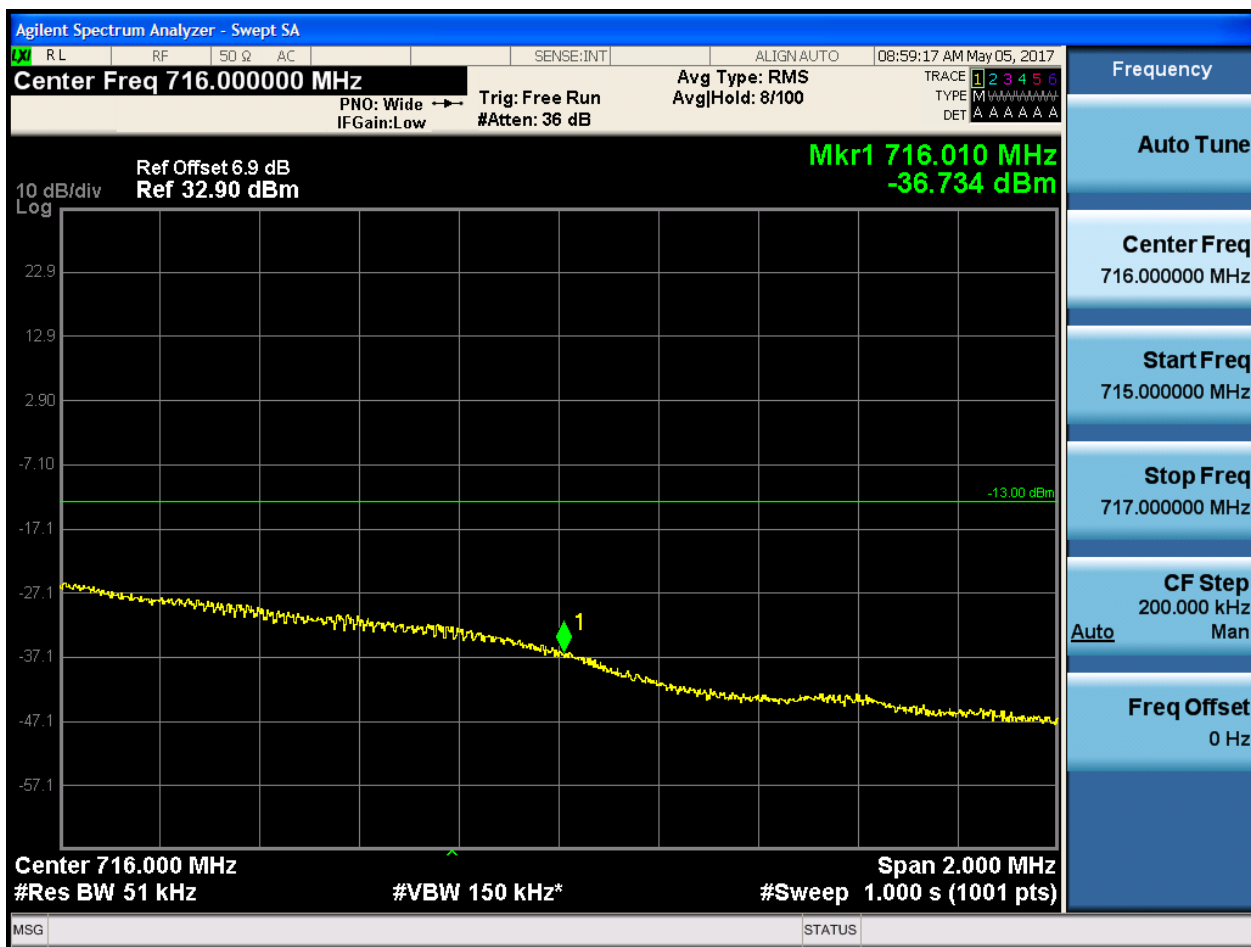
Center Freq 716.000000 MHz
Start Freq 715.000000 MHz
Stop Freq 717.000000 MHz
CF Step 200.000 kHz
Auto
Freq Offset 0 Hz

Center 716.000 MHz
#Res BW 51 kHz
#VBW 150 kHz*
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.3.2.3 Test RB = RB12#6





5.1.1.2.3.2.4 Test RB = RB25#0

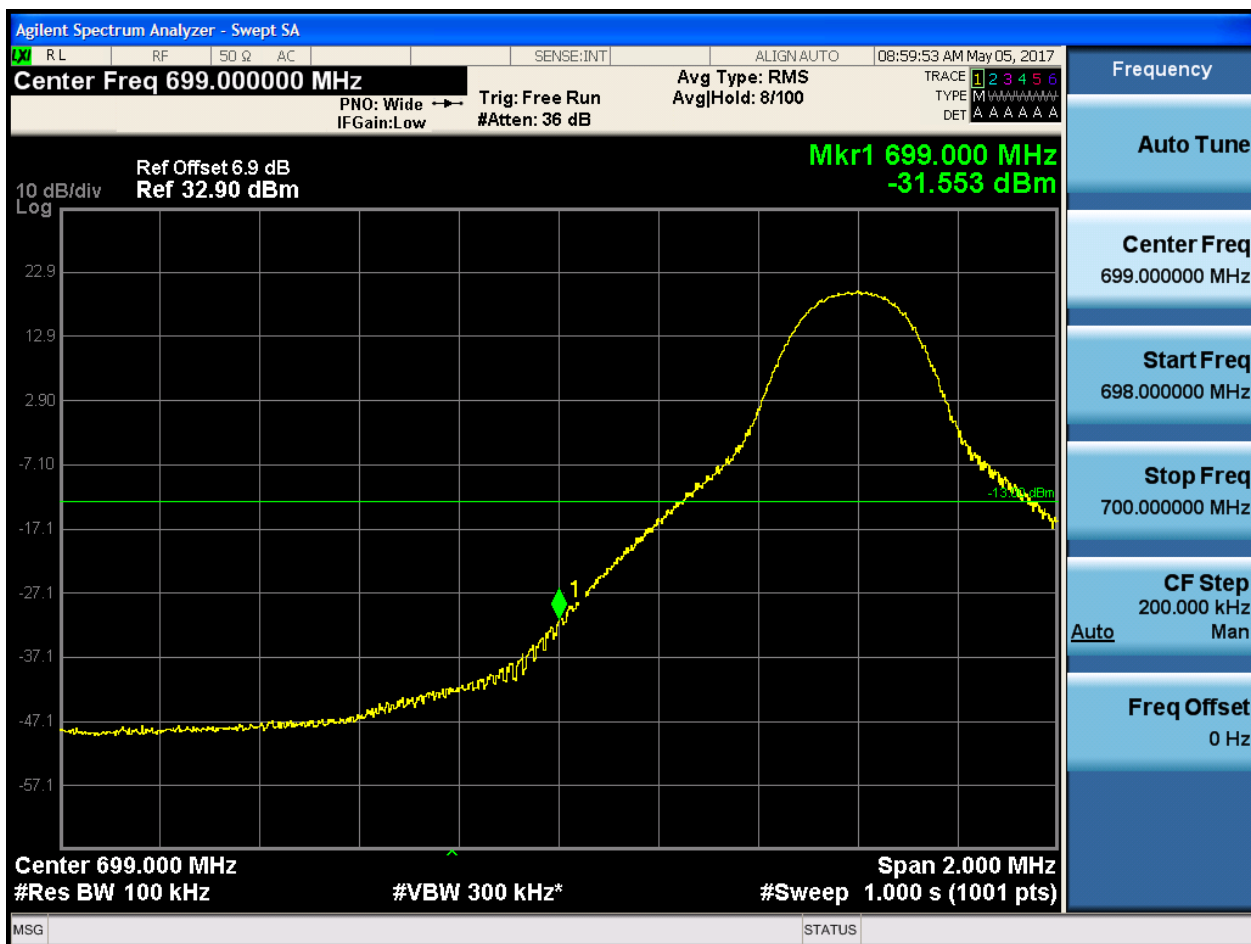




5.1.1.2.4 Test Bandwidth = 10

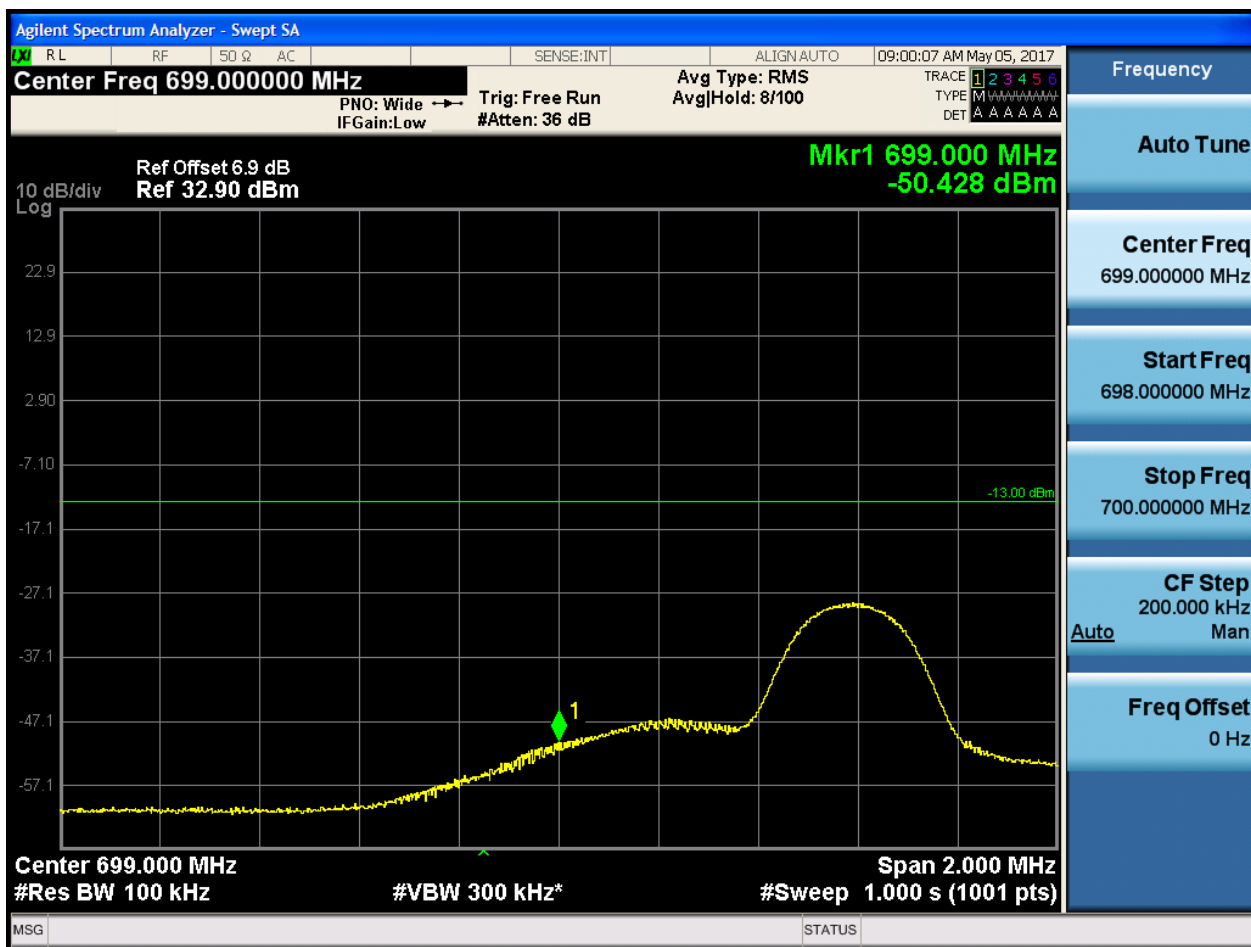
5.1.1.2.4.1 Test Channel = LCH

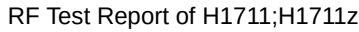
5.1.1.2.4.1.1 Test RB = RB1#0





5.1.1.2.4.1.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:00:22 AM May 05, 2017

Center Freq 699.000000 MHz Avg Type: RMS
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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 698.990 MHz
-37.801 dBm

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

-13.00 dBm

1

Center 699.000 MHz
#Res BW 100 kHz

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

#VBW 300 kHz*

MSG STATUS

Frequency

Auto Tune

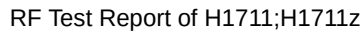
Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

Stop Freq
700.000000 MHz

CF Step
200.000 kHz
Auto Man

Freq Offset
0 Hz



Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 6.9 dB
Ref 32.90 dBm

10 dB/div
Log

Mkr1 699.000 MHz
-33.766 dBm

Center 699.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

Frequency

Auto Tune

Center Freq
699.000000 MHz

Start Freq
698.000000 MHz

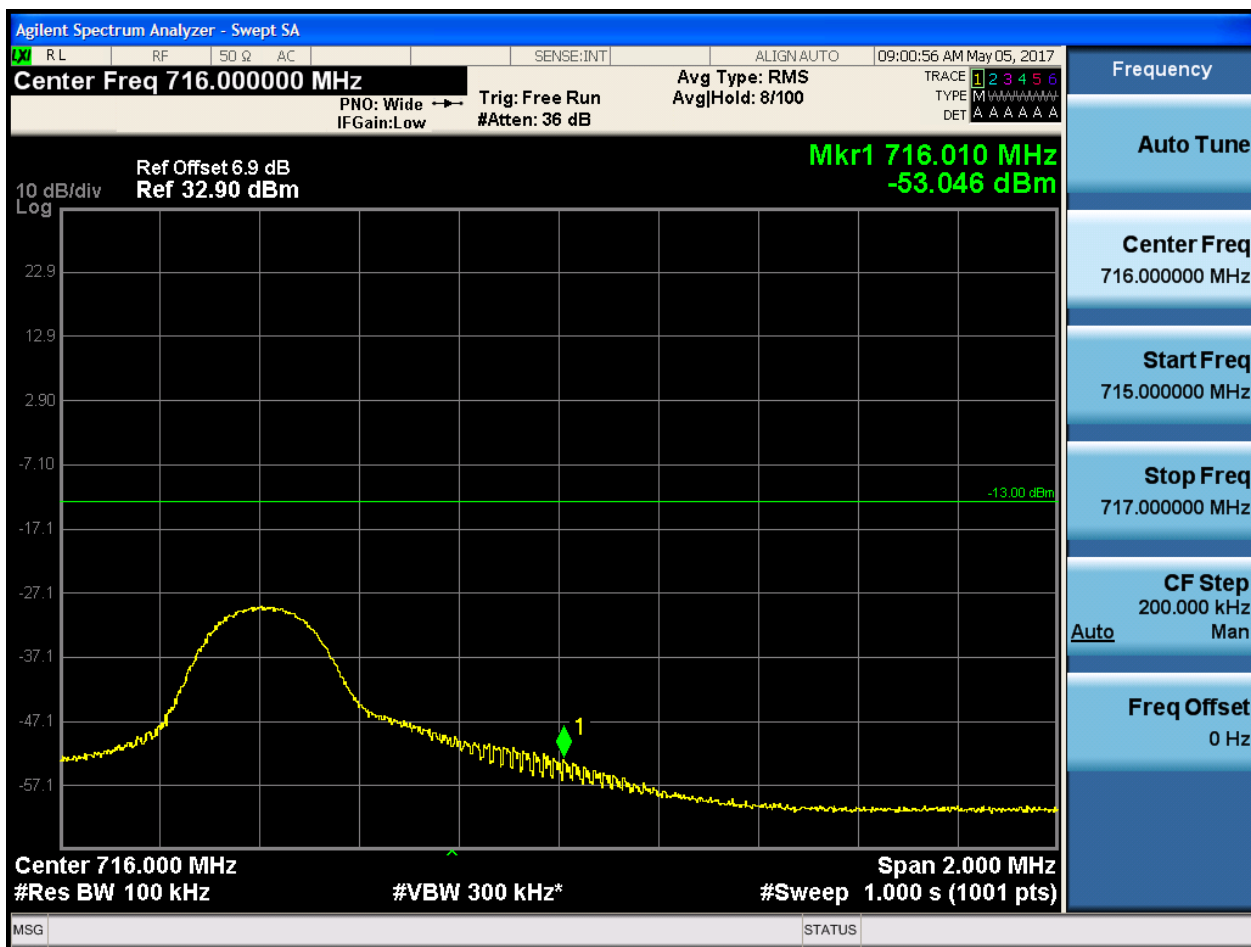
Stop Freq
700.000000 MHz

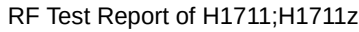
CF Step
200.000 kHz
Auto

Freq Offset
0 Hz

5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:01:10 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
PNO: Wide IFGain:Low Trig: Free Run AvgHold: 8/100
#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 6.9 dB
Ref 32.90 dBm

Mkr1 716.000 MHz
-29.424 dBm

10 dB/div
Log

22.9
12.9
2.90
-7.10
-17.1
-27.1
-37.1
-47.1
-57.1

-13.00 dBm

1

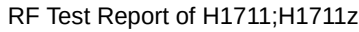
Center 716.000 MHz
#Res BW 100 kHz

#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS

Frequency
Auto Tune
Center Freq 716.000000 MHz
Start Freq 715.000000 MHz
Stop Freq 717.000000 MHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:01:25 AM May 05, 2017

Center Freq 716.000000 MHz Avg Type: RMS
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 W W
DET A A A A A A

Ref Offset 6.9 dB
Ref 32.90 dBm

Mkr1 716.010 MHz
-38.039 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz
Span 2.000 MHz
#Sweep 1.000 s (1001 pts)

MSG STATUS



5.1.1.2.4.2.4 Test RB = RB50#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

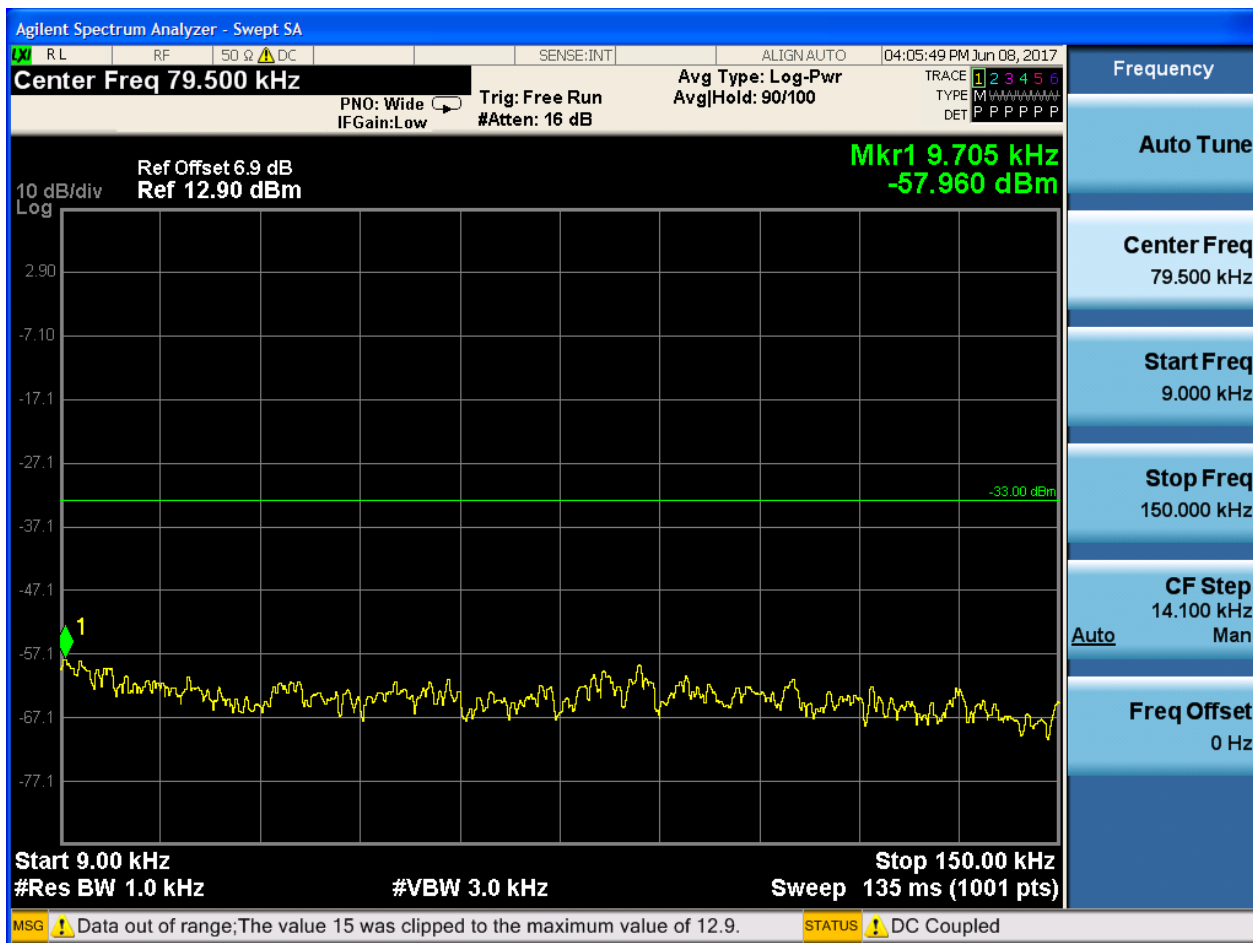
6.1.1 Test Band = BAND12

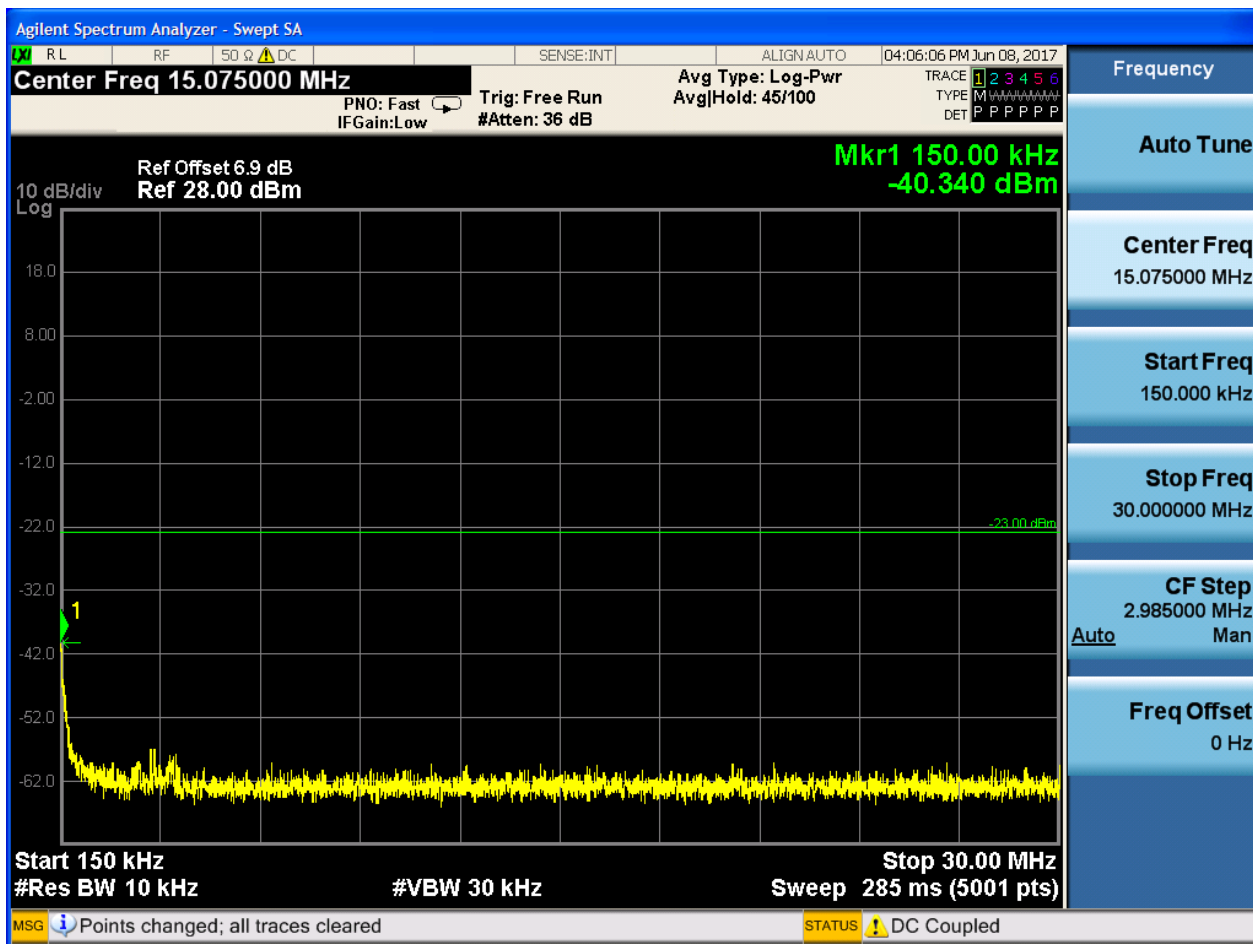
6.1.1.1 Test Mode = LTE/TM1

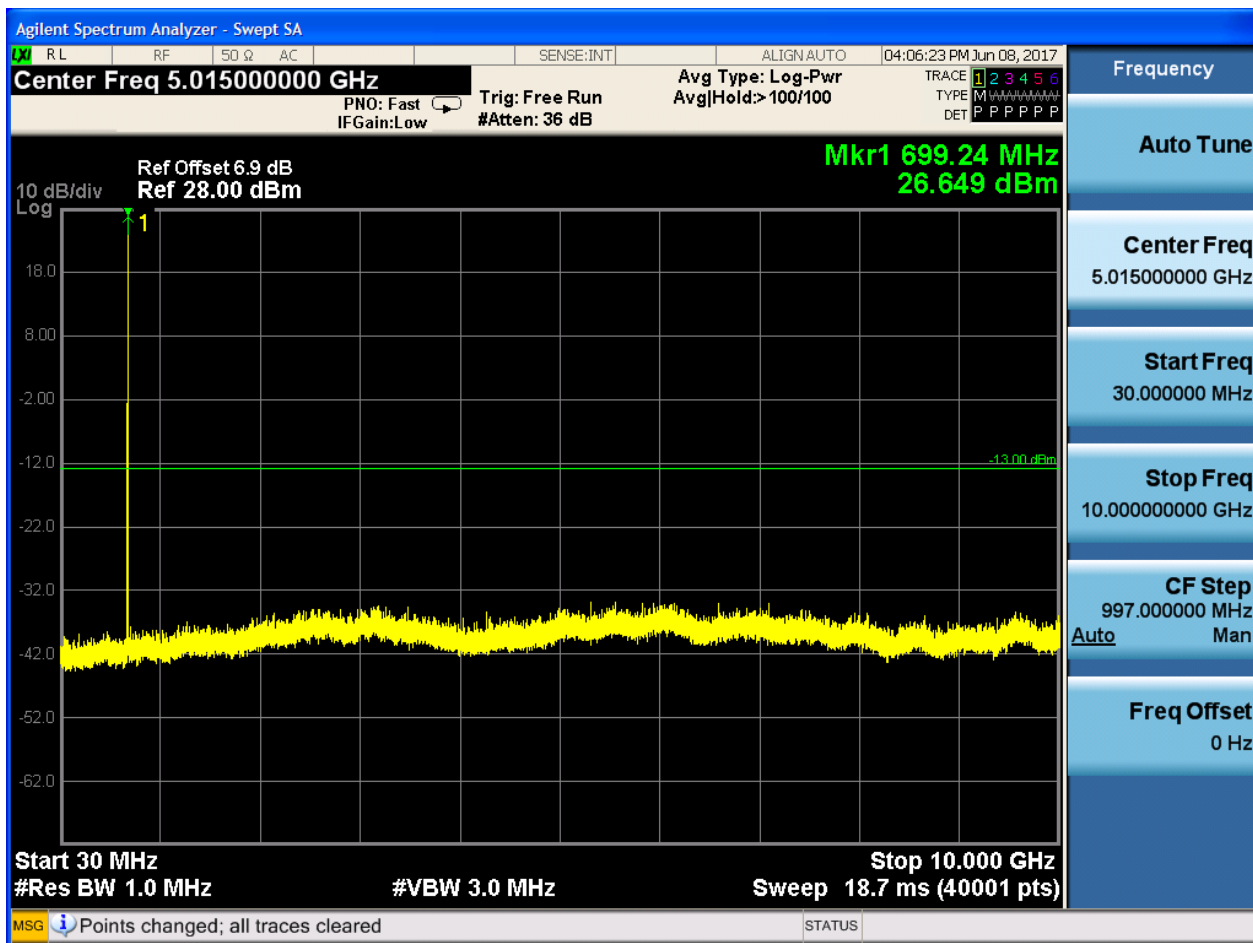
6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



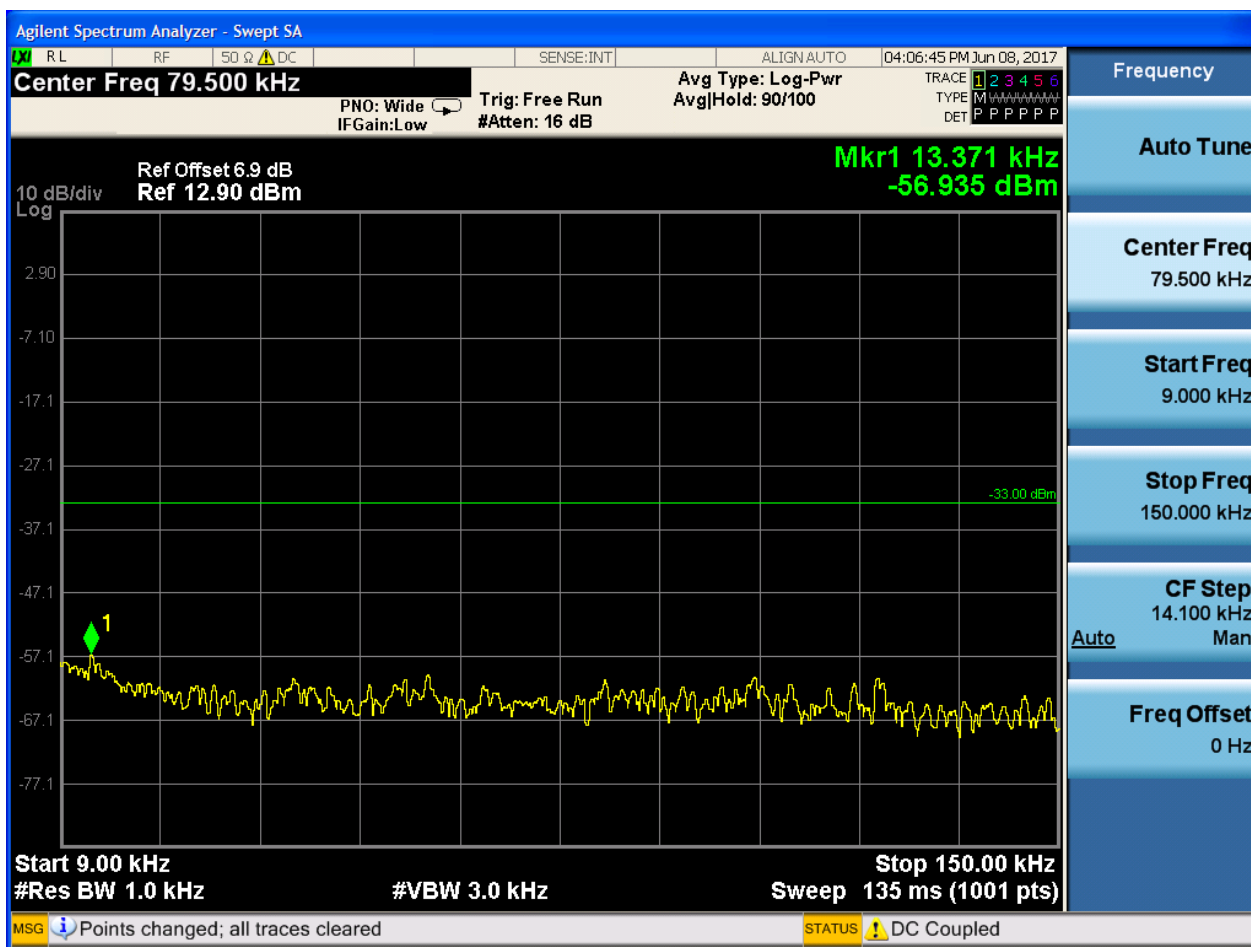


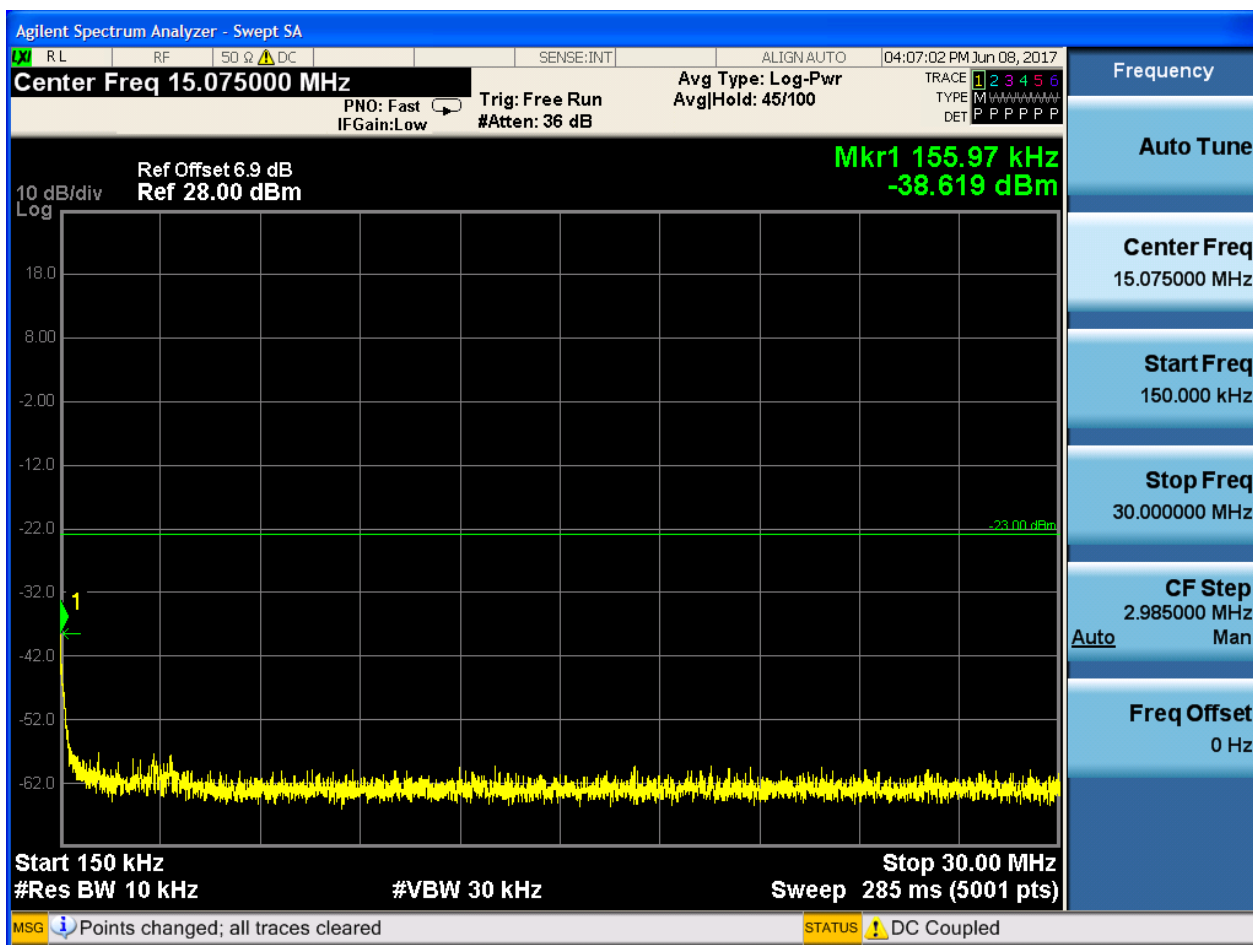


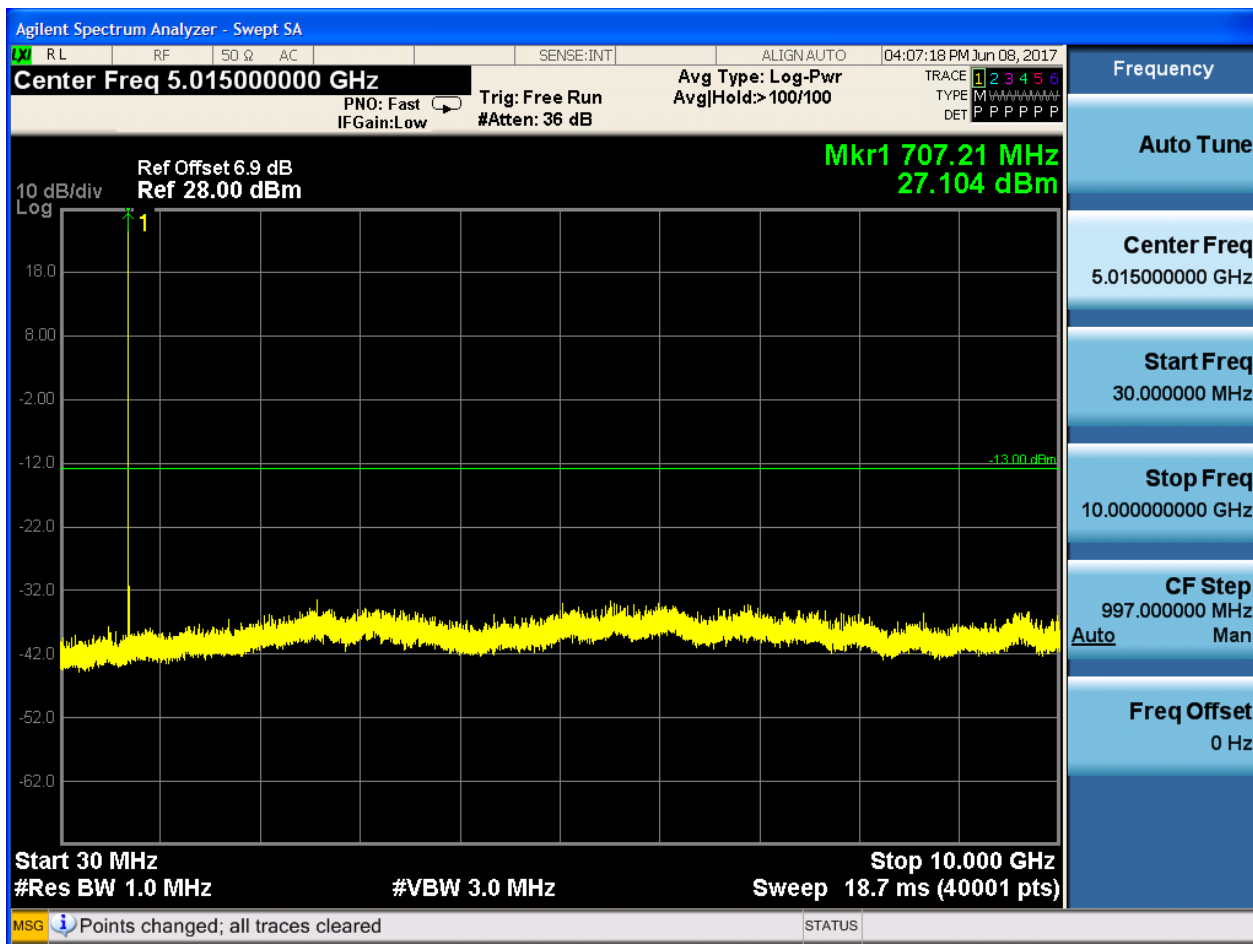


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



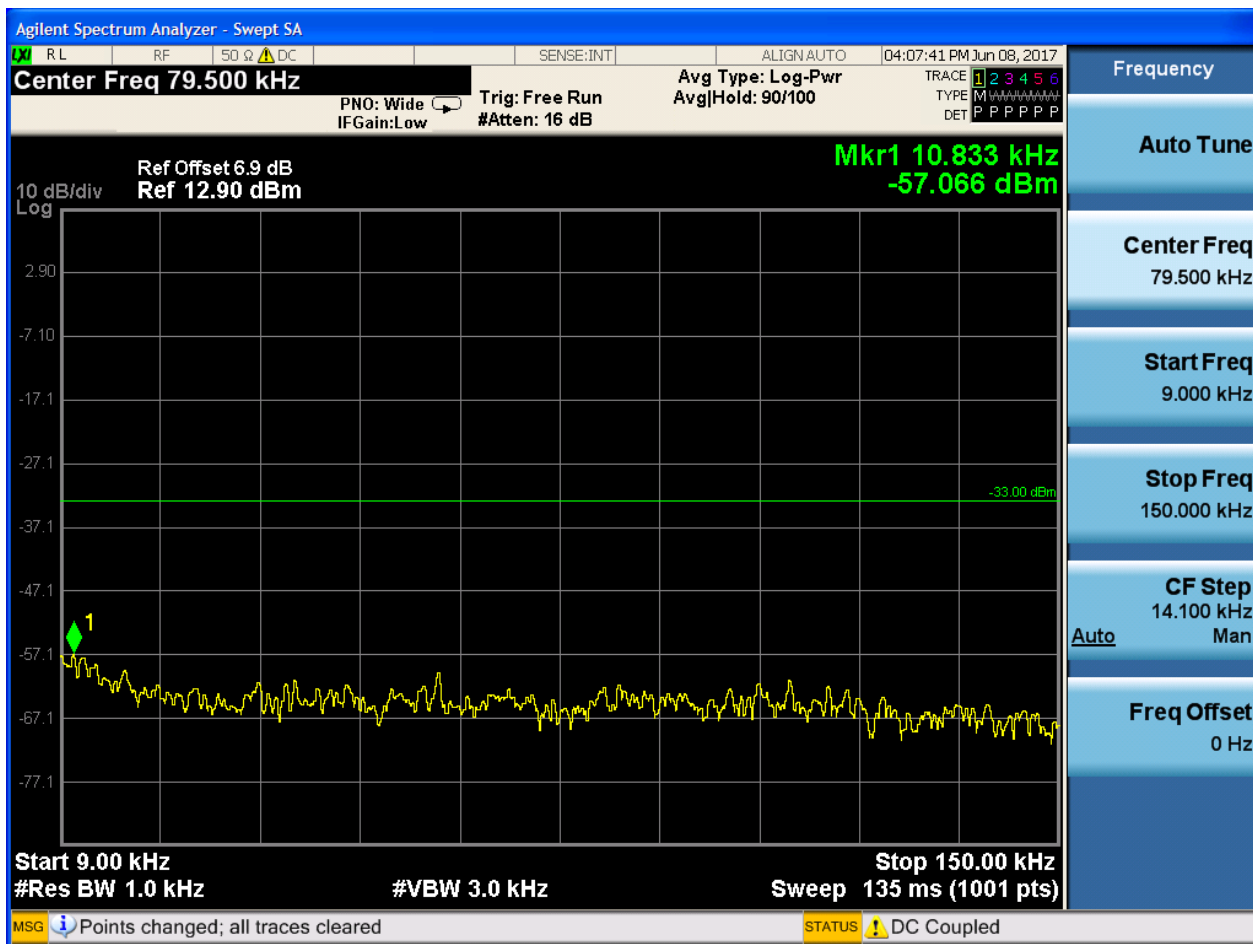


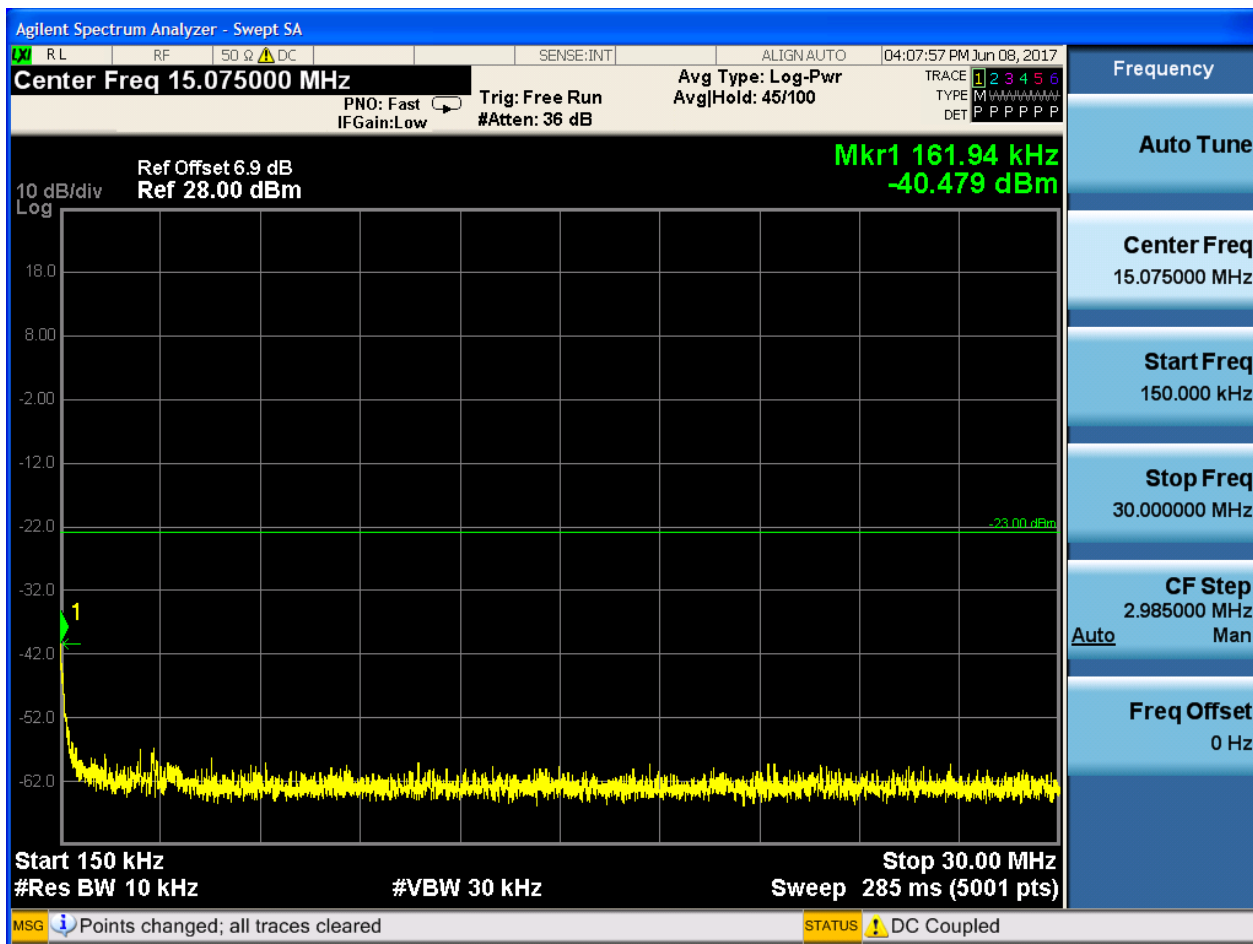


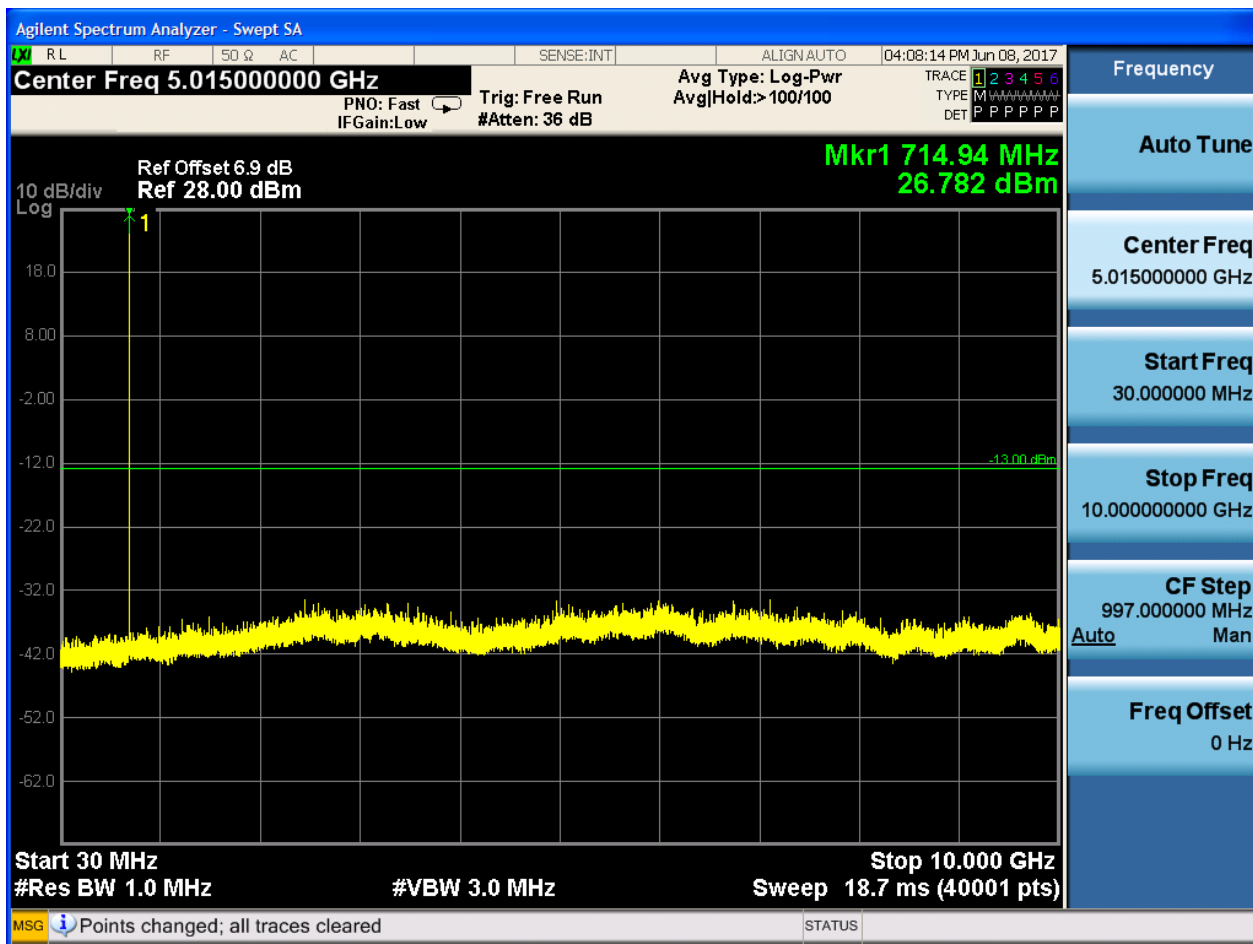


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0









6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0

