



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	23.63	17.95	34.7	PASS
				RB1#3	23.56	17.65	34.7	PASS
				RB1#5	23.63	17.58	34.7	PASS
				RB3#0	23.56	17.65	34.7	PASS
				RB3#2	23.55	17.85	34.7	PASS
				RB3#3	23.64	17.88	34.7	PASS
				RB6#0	22.59	16.92	34.7	PASS
			MCH	RB1#0	23.67	18.01	34.7	PASS
				RB1#3	23.56	17.80	34.7	PASS
				RB1#5	23.79	18.10	34.7	PASS
				RB3#0	23.64	17.93	34.7	PASS
				RB3#2	23.5	17.67	34.7	PASS
				RB3#3	23.56	17.71	34.7	PASS
				RB6#0	22.58	16.78	34.7	PASS
			HCH	RB1#0	23.81	17.91	34.7	PASS
				RB1#3	23.44	17.50	34.7	PASS
				RB1#5	23.78	18.01	34.7	PASS
				RB3#0	23.57	17.82	34.7	PASS
				RB3#2	23.29	17.60	34.7	PASS
				RB3#3	23.67	17.74	34.7	PASS
				RB6#0	22.71	16.94	34.7	PASS
		3	LCH	RB1#0	23.65	17.67	34.7	PASS
				RB1#7	23.64	17.94	34.7	PASS
				RB1#14	23.78	17.88	34.7	PASS
				RB8#0	22.8	17.02	34.7	PASS
				RB8#4	22.46	16.61	34.7	PASS
				RB8#7	22.47	16.73	34.7	PASS
				RB15#0	22.64	16.61	34.7	PASS
			MCH	RB1#0	23.71	17.98	34.7	PASS
				RB1#7	23.33	17.43	34.7	PASS
				RB1#14	23.57	17.81	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB8#0	22.67	16.66	34.7	PASS
				RB8#4	22.58	16.78	34.7	PASS
				RB8#7	22.62	16.78	34.7	PASS
				RB15#0	22.63	16.84	34.7	PASS
			HCH	RB1#0	23.69	17.65	34.7	PASS
				RB1#7	23.54	17.79	34.7	PASS
				RB1#14	23.77	18.08	34.7	PASS
				RB8#0	22.64	16.90	34.7	PASS
				RB8#4	22.56	16.60	34.7	PASS
				RB8#7	22.59	16.92	34.7	PASS
				RB15#0	22.66	16.75	34.7	PASS
		5	LCH	RB1#0	23.6	17.58	34.7	PASS
				RB1#13	23.71	17.84	34.7	PASS
				RB1#24	23.62	17.72	34.7	PASS
				RB12#0	22.69	17.03	34.7	PASS
				RB12#6	22.67	16.64	34.7	PASS
				RB12#13	22.75	17.10	34.7	PASS
				RB25#0	22.65	16.76	34.7	PASS
			MCH	RB1#0	23.67	17.69	34.7	PASS
				RB1#13	23.62	17.81	34.7	PASS
				RB1#24	23.66	17.89	34.7	PASS
				RB12#0	22.68	16.82	34.7	PASS
				RB12#6	22.66	16.85	34.7	PASS
				RB12#13	22.72	16.96	34.7	PASS
				RB25#0	22.63	16.84	34.7	PASS
			HCH	RB1#0	23.6	17.87	34.7	PASS
				RB1#13	23.62	17.72	34.7	PASS
				RB1#24	23.63	17.76	34.7	PASS
				RB12#0	22.68	16.86	34.7	PASS
				RB12#6	22.69	16.72	34.7	PASS
				RB12#13	22.75	17.05	34.7	PASS
				RB25#0	22.77	16.95	34.7	PASS
		10	LCH	RB1#0	23.78	18.00	34.7	PASS
				RB1#25	23.67	17.84	34.7	PASS
				RB1#49	23.66	17.96	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#0	22.67	16.79	34.7	PASS
				RB25#13	22.64	16.76	34.7	PASS
				RB25#25	22.69	16.82	34.7	PASS
				RB50#0	22.7	16.75	34.7	PASS
			MCH	RB1#0	23.64	17.89	34.7	PASS
				RB1#25	23.69	17.72	34.7	PASS
				RB1#49	23.78	18.00	34.7	PASS
				RB25#0	22.73	16.93	34.7	PASS
				RB25#13	22.62	16.91	34.7	PASS
				RB25#25	22.66	16.83	34.7	PASS
				RB50#0	22.63	16.70	34.7	PASS
			HCH	RB1#0	23.69	17.71	34.7	PASS
				RB1#25	23.51	17.65	34.7	PASS
				RB1#49	23.72	17.74	34.7	PASS
				RB25#0	22.68	16.83	34.7	PASS
				RB25#13	22.66	16.71	34.7	PASS
				RB25#25	22.68	16.92	34.7	PASS
				RB50#0	22.69	17.02	34.7	PASS
	LTE/TM2	1.4	LCH	RB1#0	22.82	17.12	34.7	PASS
				RB1#3	22.7	16.98	34.7	PASS
				RB1#5	22.76	16.77	34.7	PASS
				RB3#0	22.73	16.86	34.7	PASS
				RB3#2	22.63	16.71	34.7	PASS
				RB3#3	22.72	16.83	34.7	PASS
				RB6#0	21.56	15.51	34.7	PASS
			MCH	RB1#0	22.81	16.77	34.7	PASS
				RB1#3	22.54	16.60	34.7	PASS
				RB1#5	22.91	17.00	34.7	PASS
				RB3#0	22.65	16.86	34.7	PASS
				RB3#2	22.7	16.73	34.7	PASS
				RB3#3	22.71	16.86	34.7	PASS
				RB6#0	21.58	15.62	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
			HCH	RB1#0	22.57	16.85	34.7	PASS
				RB1#3	22.15	16.34	34.7	PASS
				RB1#5	22.53	16.52	34.7	PASS
				RB3#0	22.6	16.92	34.7	PASS
				RB3#2	22.51	16.53	34.7	PASS
				RB3#3	22.42	16.61	34.7	PASS
				RB6#0	21.59	15.82	34.7	PASS
		3	LCH	RB1#0	22.65	16.80	34.7	PASS
				RB1#7	22.16	16.18	34.7	PASS
				RB1#14	22.77	17.03	34.7	PASS
				RB8#0	21.61	15.65	34.7	PASS
				RB8#4	21.65	15.81	34.7	PASS
				RB8#7	21.71	15.96	34.7	PASS
				RB15#0	21.69	15.85	34.7	PASS
			MCH	RB1#0	22.66	17.01	34.7	PASS
				RB1#7	22.28	16.27	34.7	PASS
				RB1#14	22.68	16.89	34.7	PASS
				RB8#0	21.61	15.73	34.7	PASS
				RB8#4	21.63	15.94	34.7	PASS
				RB8#7	21.7	16.04	34.7	PASS
				RB15#0	21.65	15.89	34.7	PASS
			HCH	RB1#0	22.9	16.93	34.7	PASS
				RB1#7	22.39	16.53	34.7	PASS
				RB1#14	23.05	17.39	34.7	PASS
				RB8#0	21.74	16.08	34.7	PASS
				RB8#4	21.66	16.01	34.7	PASS
				RB8#7	21.63	15.84	34.7	PASS
				RB15#0	21.66	15.64	34.7	PASS
		5	LCH	RB1#0	22.67	16.75	34.7	PASS
				RB1#13	22.74	17.08	34.7	PASS
				RB1#24	22.77	16.90	34.7	PASS
				RB12#0	21.74	16.01	34.7	PASS
				RB12#6	21.61	15.60	34.7	PASS
				RB12#13	21.72	15.99	34.7	PASS
				RB25#0	21.54	15.84	34.7	PASS
			MCH	RB1#0	22.73	16.89	34.7	PASS
				RB1#13	22.75	16.77	34.7	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB1#24	22.89	16.85	34.7	PASS
				RB12#0	21.6	15.71	34.7	PASS
				RB12#6	21.66	15.90	34.7	PASS
				RB12#13	21.7	15.76	34.7	PASS
				RB25#0	21.67	15.81	34.7	PASS
			HCH	RB1#0	23.19	17.42	34.7	PASS
				RB1#13	23.17	17.21	34.7	PASS
				RB1#24	22.97	17.18	34.7	PASS
				RB12#0	21.62	15.86	34.7	PASS
				RB12#6	21.59	15.94	34.7	PASS
				RB12#13	21.65	15.98	34.7	PASS
				RB25#0	21.64	15.66	34.7	PASS
		10	LCH	RB1#0	22.9	17.00	34.7	PASS
				RB1#25	22.69	16.94	34.7	PASS
				RB1#49	22.94	17.02	34.7	PASS
				RB25#0	21.6	15.79	34.7	PASS
				RB25#13	21.58	15.90	34.7	PASS
				RB25#25	21.6	15.82	34.7	PASS
				RB50#0	21.73	15.81	34.7	PASS
			MCH	RB1#0	22.8	17.08	34.7	PASS
				RB1#25	22.44	16.71	34.7	PASS
				RB1#49	22.88	16.97	34.7	PASS
				RB25#0	21.65	15.63	34.7	PASS
				RB25#13	21.68	15.97	34.7	PASS
				RB25#25	21.71	15.97	34.7	PASS
				RB50#0	21.67	15.76	34.7	PASS
			HCH	RB1#0	23	17.31	34.7	PASS
				RB1#25	22.69	16.72	34.7	PASS
				RB1#49	22.96	17.21	34.7	PASS
				RB25#0	21.55	15.82	34.7	PASS
				RB25#13	21.5	15.77	34.7	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP[dBm]	Limit [dBm]	Verdict
				RB25#25	21.6	15.76	34.7	PASS
				RB50#0	21.61	15.68	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,

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

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

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
BAND12	LTE/TM1	1.4	LCH	RB1#0	4.17	13	PASS
				RB1#3	4.14	13	PASS
				RB1#5	3.98	13	PASS
				RB3#0	4.7	13	PASS
				RB3#2	4.57	13	PASS
				RB3#3	4.46	13	PASS
				RB6#0	5.45	13	PASS
			MCH	RB1#0	4.49	13	PASS
				RB1#3	4.54	13	PASS
				RB1#5	4.42	13	PASS
				RB3#0	5.17	13	PASS
				RB3#2	5.11	13	PASS
				RB3#3	5.18	13	PASS
				RB6#0	5.86	13	PASS
			HCH	RB1#0	3.83	13	PASS
				RB1#3	3.94	13	PASS
				RB1#5	3.81	13	PASS
				RB3#0	4.23	13	PASS
				RB3#2	4.31	13	PASS
				RB3#3	4.33	13	PASS
				RB6#0	5.36	13	PASS
		3	LCH	RB1#0	4.11	13	PASS
				RB1#7	4.22	13	PASS
				RB1#14	3.96	13	PASS
				RB8#0	5.46	13	PASS
				RB8#4	5.22	13	PASS
				RB8#7	5.35	13	PASS
				RB15#0	5.58	13	PASS
			MCH	RB1#0	4.45	13	PASS
				RB1#7	4.51	13	PASS
				RB1#14	4.4	13	PASS
				RB8#0	5.57	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#4	5.54	13	PASS
				RB8#7	5.65	13	PASS
				RB15#0	5.79	13	PASS
			HCH	RB1#0	4.1	13	PASS
				RB1#7	4.29	13	PASS
				RB1#14	3.88	13	PASS
				RB8#0	4.98	13	PASS
				RB8#4	4.91	13	PASS
				RB8#7	5.07	13	PASS
				RB15#0	5.57	13	PASS
		5	LCH	RB1#0	3.93	13	PASS
				RB1#13	4.16	13	PASS
				RB1#24	4.42	13	PASS
				RB12#0	5.27	13	PASS
				RB12#6	5.17	13	PASS
				RB12#13	5.35	13	PASS
				RB25#0	5.62	13	PASS
			MCH	RB1#0	4.48	13	PASS
				RB1#13	4.58	13	PASS
				RB1#24	4.53	13	PASS
				RB12#0	5.75	13	PASS
				RB12#6	5.8	13	PASS
				RB12#13	5.85	13	PASS
				RB25#0	6	13	PASS
			HCH	RB1#0	4.5	13	PASS
				RB1#13	3.98	13	PASS
				RB1#24	3.88	13	PASS
				RB12#0	5.3	13	PASS
				RB12#6	5.07	13	PASS
				RB12#13	5.11	13	PASS
				RB25#0	5.51	13	PASS
		10	LCH	RB1#0	3.97	13	PASS
				RB1#25	4.35	13	PASS
				RB1#49	4.58	13	PASS
				RB25#0	5.34	13	PASS
				RB25#13	5.49	13	PASS
				RB25#25	5.74	13	PASS
				RB50#0	5.98	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
			MCH	RB1#0	4.17	13	PASS
				RB1#25	4.52	13	PASS
				RB1#49	4.15	13	PASS
				RB25#0	5.49	13	PASS
				RB25#13	5.67	13	PASS
				RB25#25	5.63	13	PASS
				RB50#0	6.07	13	PASS
			HCH	RB1#0	4.34	13	PASS
				RB1#25	4.32	13	PASS
				RB1#49	3.69	13	PASS
				RB25#0	5.72	13	PASS
				RB25#13	5.56	13	PASS
				RB25#25	5.3	13	PASS
				RB50#0	5.78	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.16	13	PASS
				RB1#3	5.19	13	PASS
				RB1#5	4.98	13	PASS
				RB3#0	5.51	13	PASS
				RB3#2	5.85	13	PASS
				RB3#3	5.54	13	PASS
				RB6#0	6.47	13	PASS
			MCH	RB1#0	5.53	13	PASS
				RB1#3	5.51	13	PASS
				RB1#5	5.51	13	PASS
				RB3#0	6.12	13	PASS
				RB3#2	6.16	13	PASS
				RB3#3	6.06	13	PASS
				RB6#0	6.63	13	PASS
			HCH	RB1#0	4.94	13	PASS
				RB1#3	5.05	13	PASS
				RB1#5	4.8	13	PASS
				RB3#0	5.16	13	PASS
				RB3#2	5.43	13	PASS
				RB3#3	5.17	13	PASS
				RB6#0	6.31	13	PASS
		3	LCH	RB1#0	5.17	13	PASS
				RB1#7	5.08	13	PASS
				RB1#14	5.02	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	6.09	13	PASS
				RB8#4	6.02	13	PASS
				RB8#7	6.06	13	PASS
				RB15#0	6.41	13	PASS
			MCH	RB1#0	5.44	13	PASS
				RB1#7	5.45	13	PASS
				RB1#14	5.5	13	PASS
				RB8#0	6.51	13	PASS
				RB8#4	6.48	13	PASS
				RB8#7	6.48	13	PASS
				RB15#0	6.57	13	PASS
			HCH	RB1#0	4.9	13	PASS
				RB1#7	4.97	13	PASS
				RB1#14	4.64	13	PASS
				RB8#0	6.32	13	PASS
				RB8#4	6.1	13	PASS
				RB8#7	6.08	13	PASS
				RB15#0	6.2	13	PASS
		5	LCH	RB1#0	5.02	13	PASS
				RB1#13	5.06	13	PASS
				RB1#24	5.42	13	PASS
				RB12#0	6.16	13	PASS
				RB12#6	6.09	13	PASS
				RB12#13	6.3	13	PASS
				RB25#0	6.49	13	PASS
			MCH	RB1#0	5.31	13	PASS
				RB1#13	5.34	13	PASS
				RB1#24	5.57	13	PASS
				RB12#0	6.78	13	PASS
				RB12#6	6.77	13	PASS
				RB12#13	6.75	13	PASS
				RB25#0	6.91	13	PASS
			HCH	RB1#0	4.97	13	PASS
				RB1#13	4.71	13	PASS
				RB1#24	4.5	13	PASS
				RB12#0	6.2	13	PASS
				RB12#6	6.03	13	PASS
				RB12#13	5.99	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	6.54	13	PASS
		10	LCH	RB1#0	5.09	13	PASS
				RB1#25	5.65	13	PASS
				RB1#49	5.79	13	PASS
				RB25#0	6.27	13	PASS
				RB25#13	6.5	13	PASS
				RB25#25	6.68	13	PASS
				RB50#0	6.83	13	PASS
			MCH	RB1#0	5.21	13	PASS
				RB1#25	5.69	13	PASS
				RB1#49	5.31	13	PASS
				RB25#0	6.54	13	PASS
				RB25#13	6.62	13	PASS
				RB25#25	6.66	13	PASS
				RB50#0	7.05	13	PASS
			HCH	RB1#0	5.35	13	PASS
				RB1#25	5.29	13	PASS
				RB1#49	4.75	13	PASS
				RB25#0	6.63	13	PASS
				RB25#13	6.42	13	PASS
				RB25#25	6.24	13	PASS
				RB50#0	6.85	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

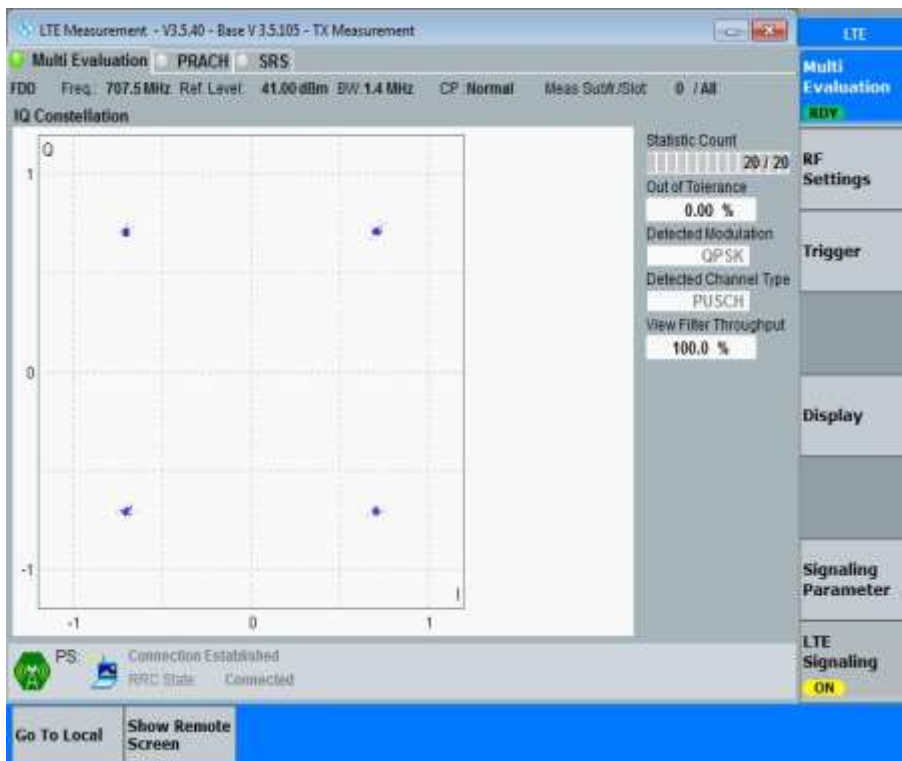
3.1.1 Test Band = BAND12

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

3.1.1.1.1.1 Test Channel = MCH

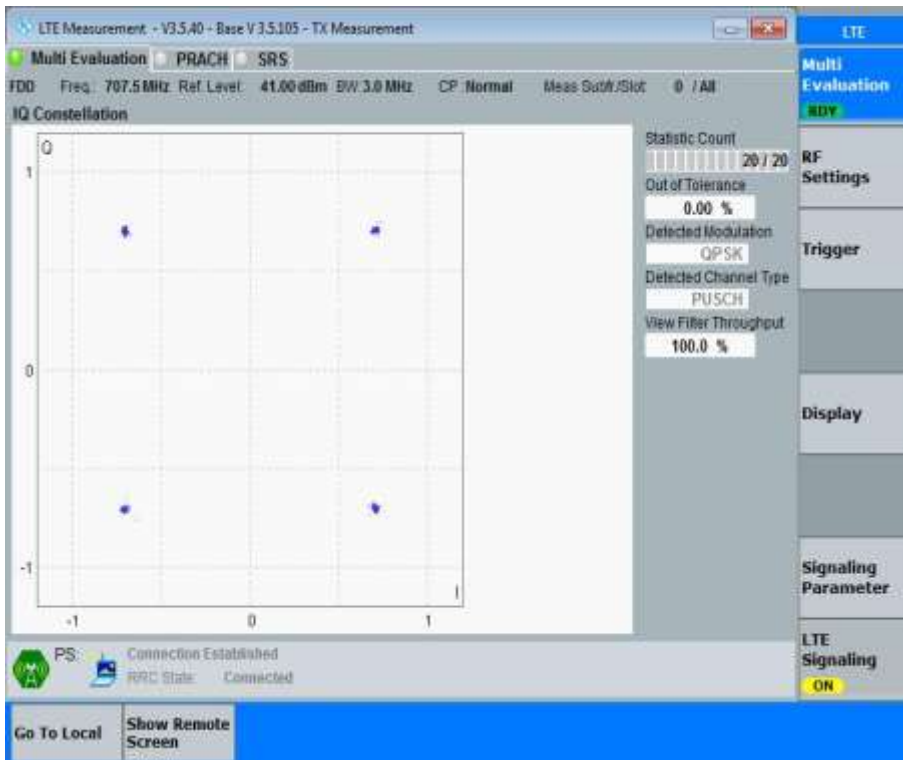
3.1.1.1.1.1.1 Test RB = RB6#0



3.1.1.1.2 Test Bandwidth = 3

3.1.1.1.2.1 Test Channel = MCH

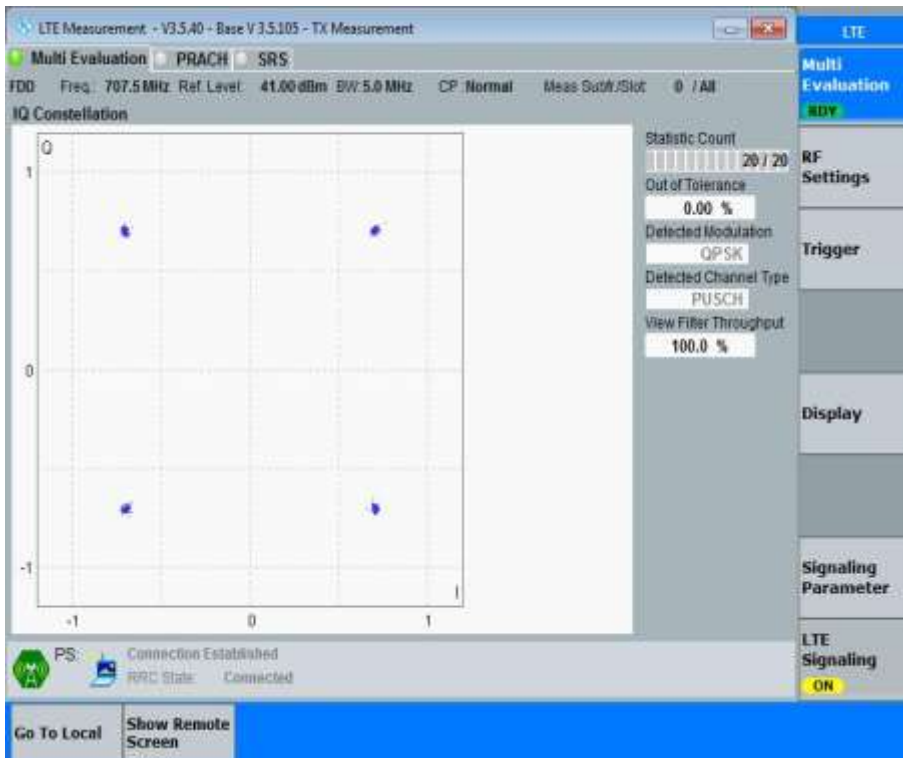
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

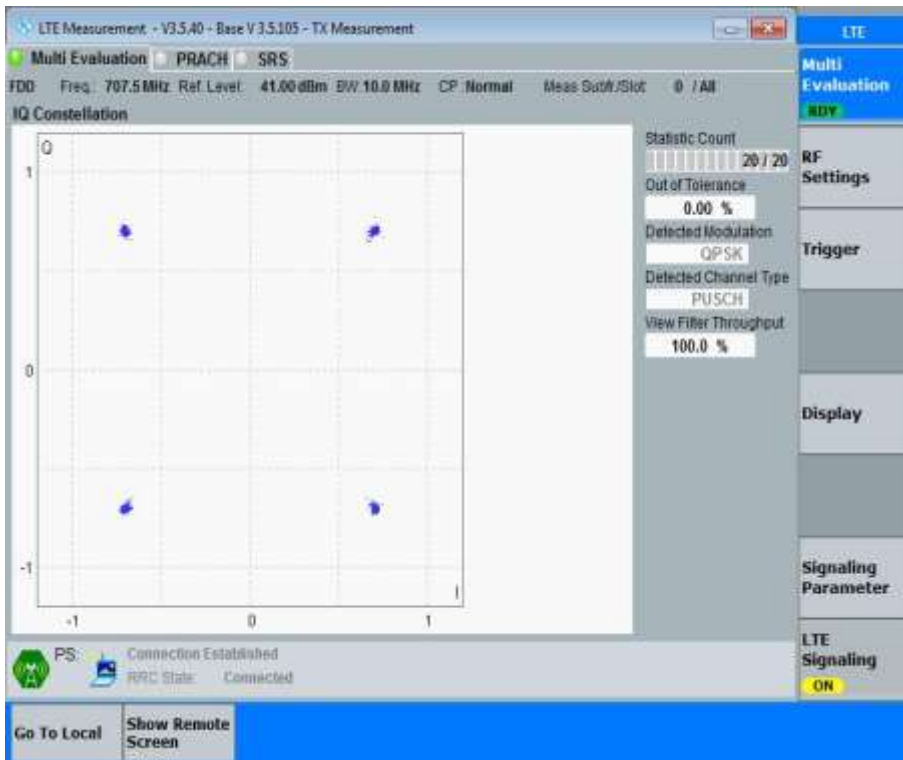
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB50#0

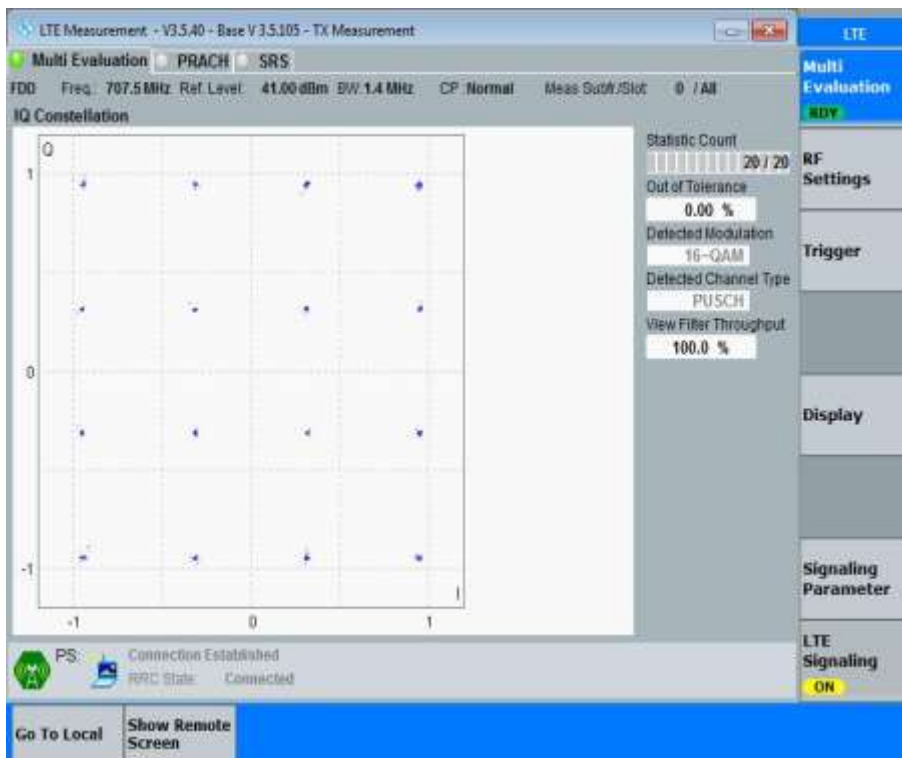


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

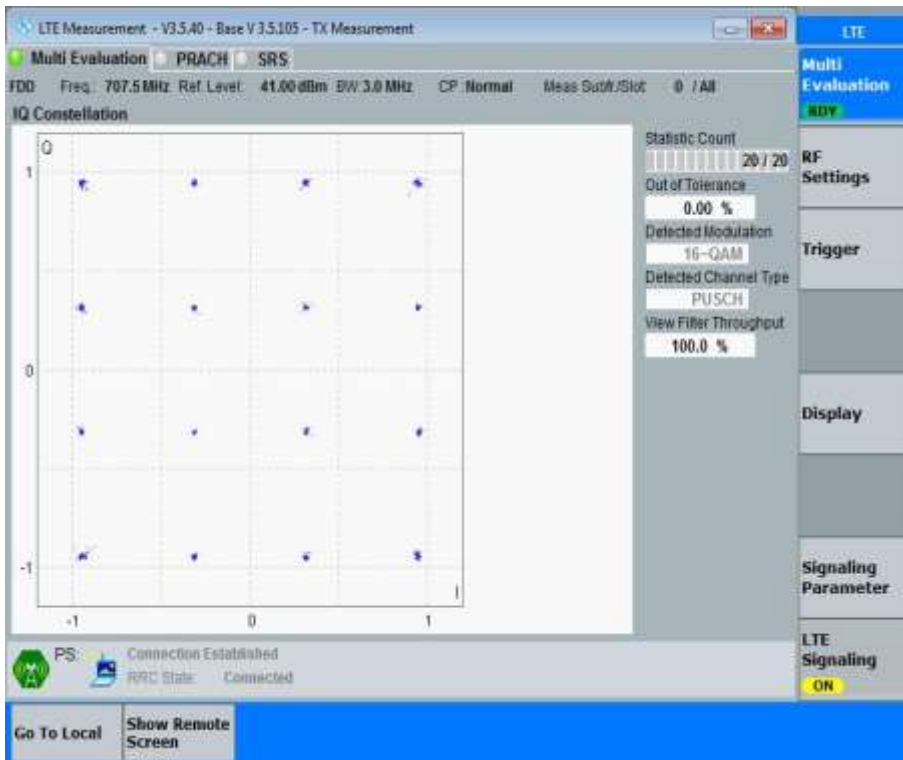
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

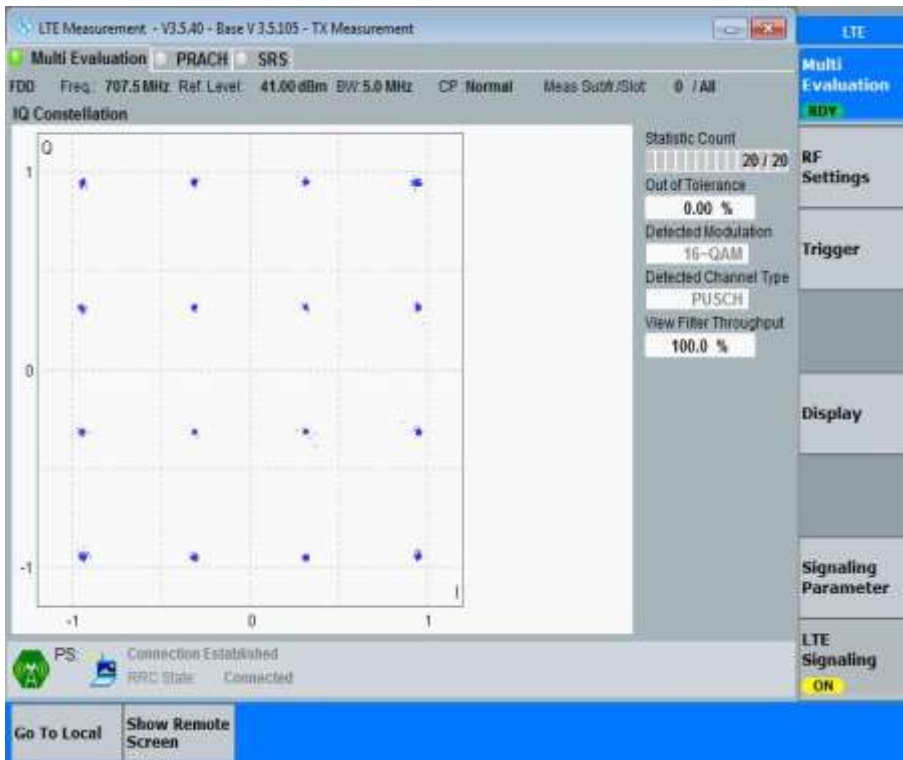
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

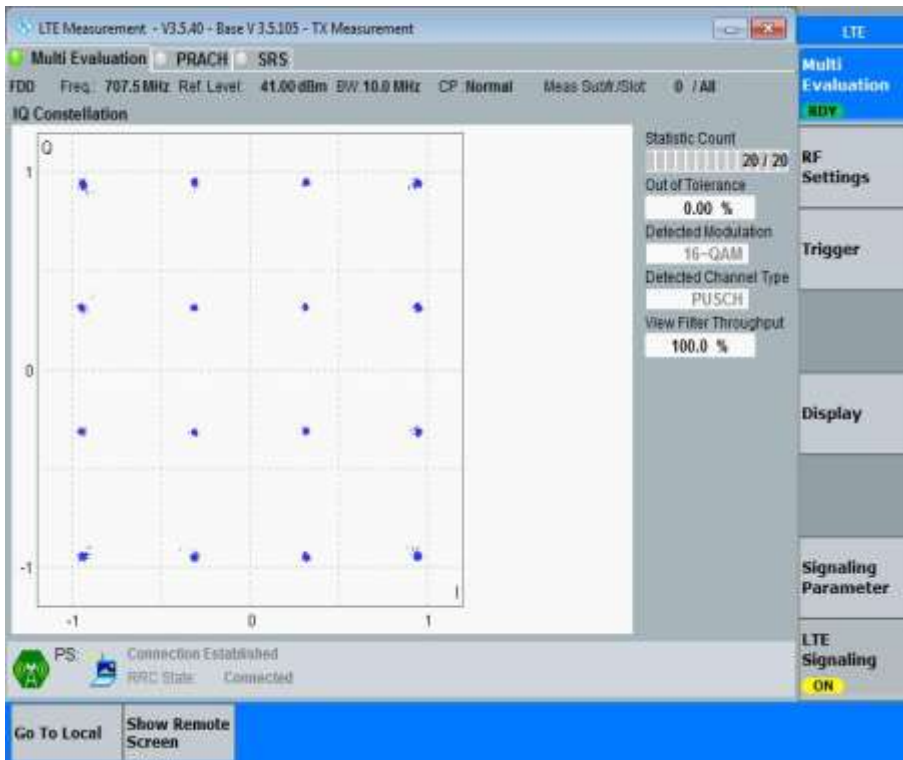
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 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	1.24	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.10	1.25	Pass
		3	LCH	RB15#0	2.71	2.98	Pass
			MCH	RB15#0	2.70	2.99	Pass
			HCH	RB15#0	2.72	2.99	Pass
		5	LCH	RB25#0	4.54	4.98	Pass
			MCH	RB25#0	4.53	4.97	Pass
			HCH	RB25#0	4.53	4.97	Pass
		10	LCH	RB50#0	9.03	9.93	Pass
			MCH	RB50#0	9.00	9.90	Pass
			HCH	RB50#0	8.97	9.89	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.24	Pass
			MCH	RB6#0	1.09	1.24	Pass
			HCH	RB6#0	1.10	1.23	Pass
		3	LCH	RB15#0	2.71	2.99	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.72	2.97	Pass
		5	LCH	RB25#0	4.52	4.94	Pass
			MCH	RB25#0	4.52	4.98	Pass
			HCH	RB25#0	4.52	4.98	Pass
		10	LCH	RB50#0	9.03	9.93	Pass
			MCH	RB50#0	9.02	9.94	Pass
			HCH	RB50#0	8.99	9.88	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

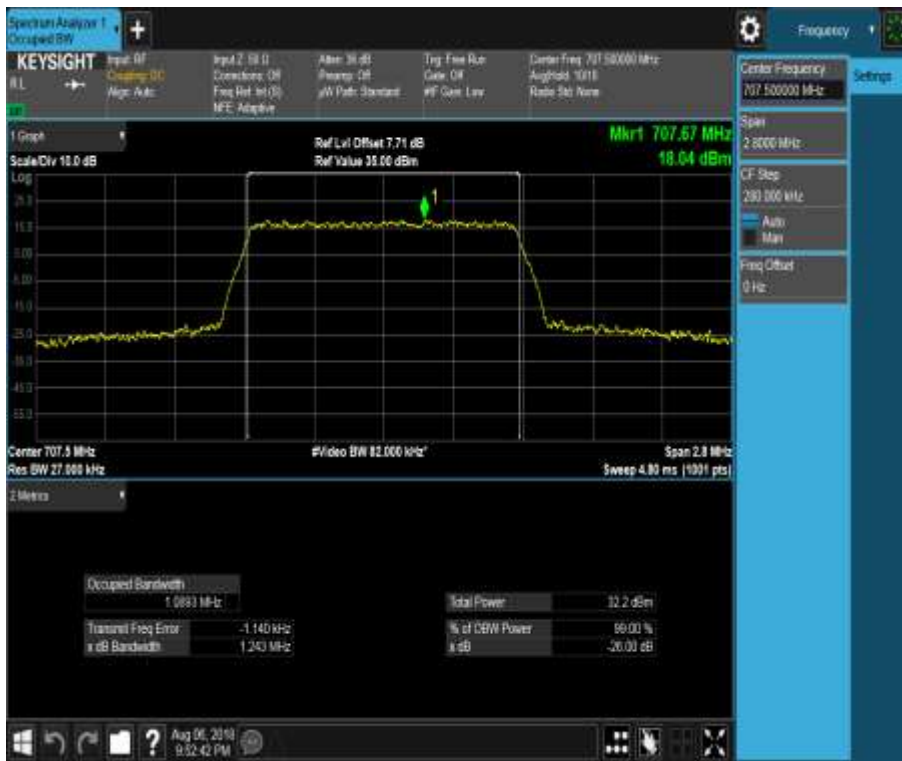
4.1.1.1.1.1 Test Channel = LCH

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



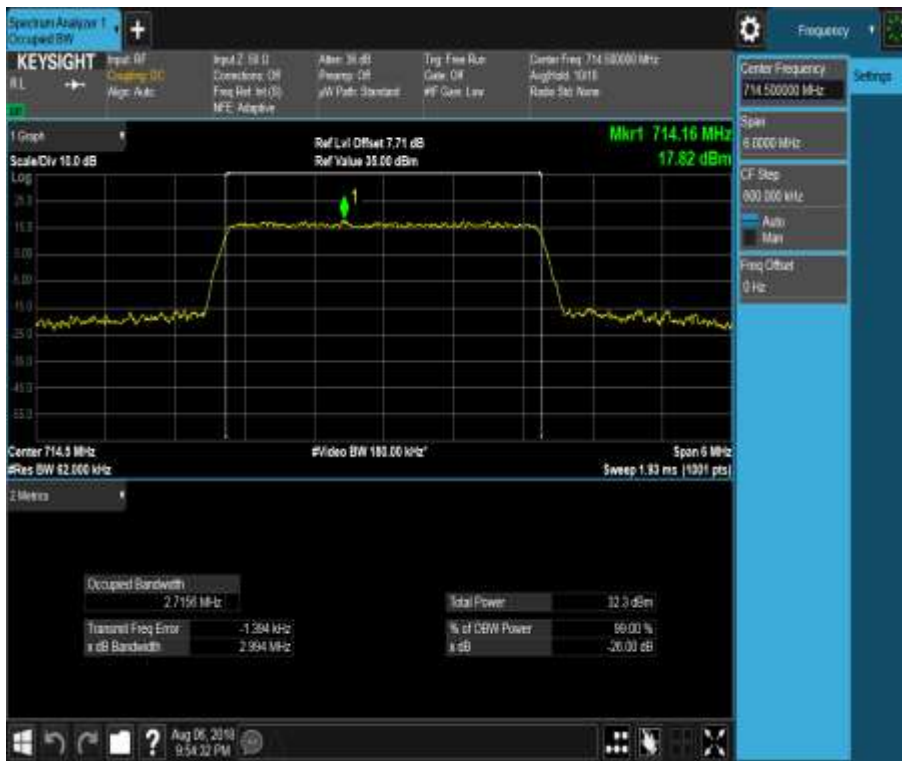
4.1.1.1.2.2 Test Channel = MCH

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



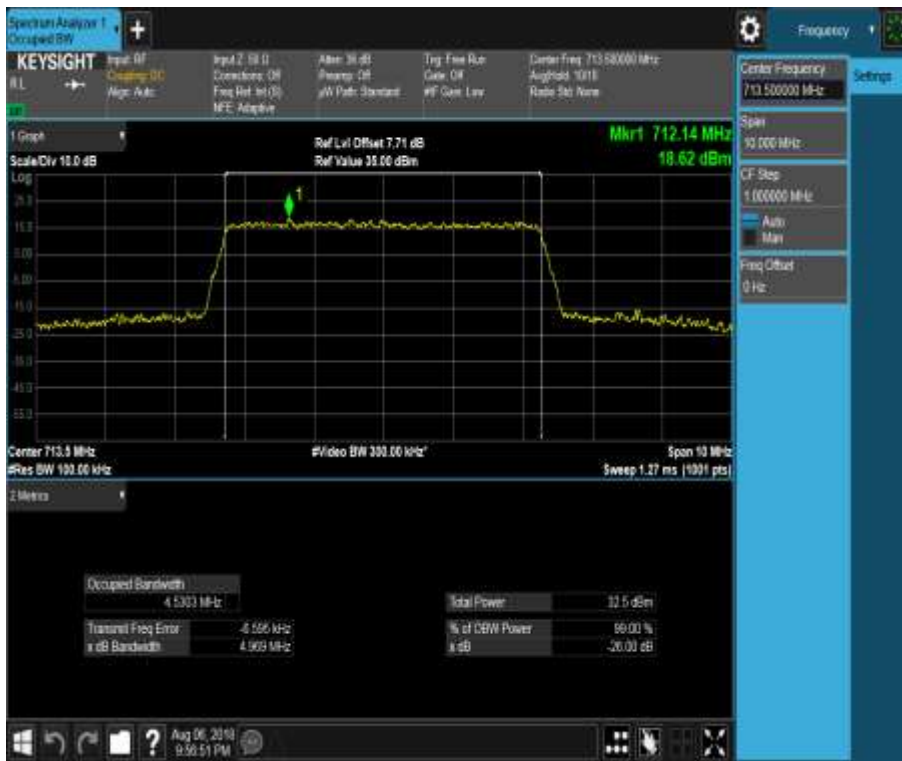
4.1.1.1.3.2 Test Channel = MCH

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

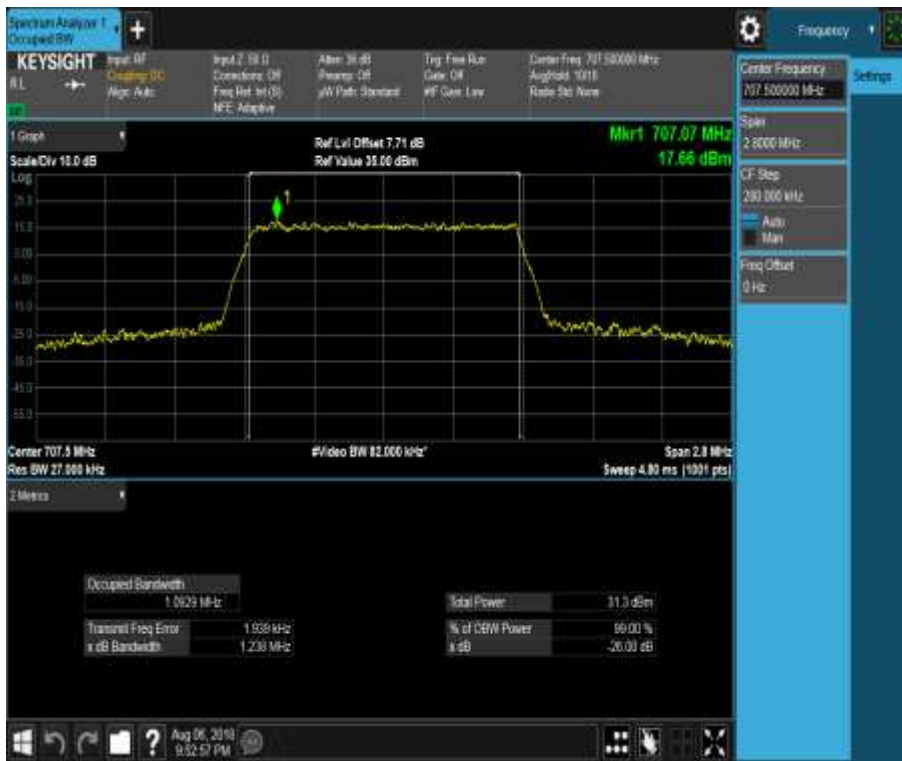
4.1.1.2.1.1 Test Channel = LCH

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



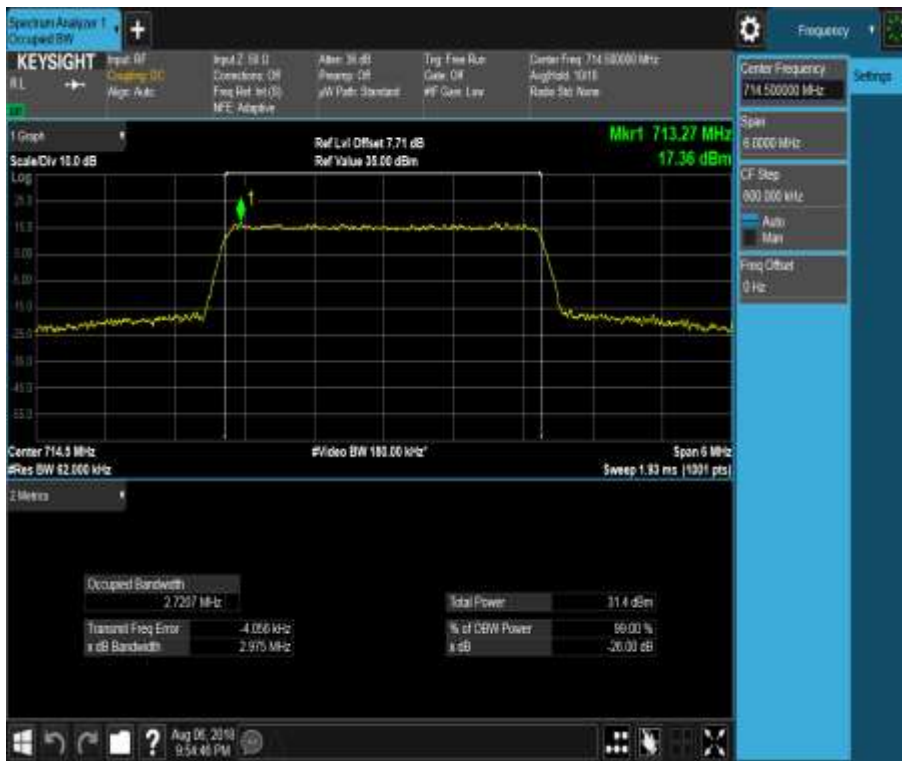
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 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

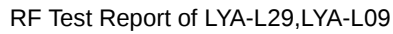
4.1.1.2.3.2.1 Test RB = RB25#0



4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB25#0





4.1.1.2.4.2 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

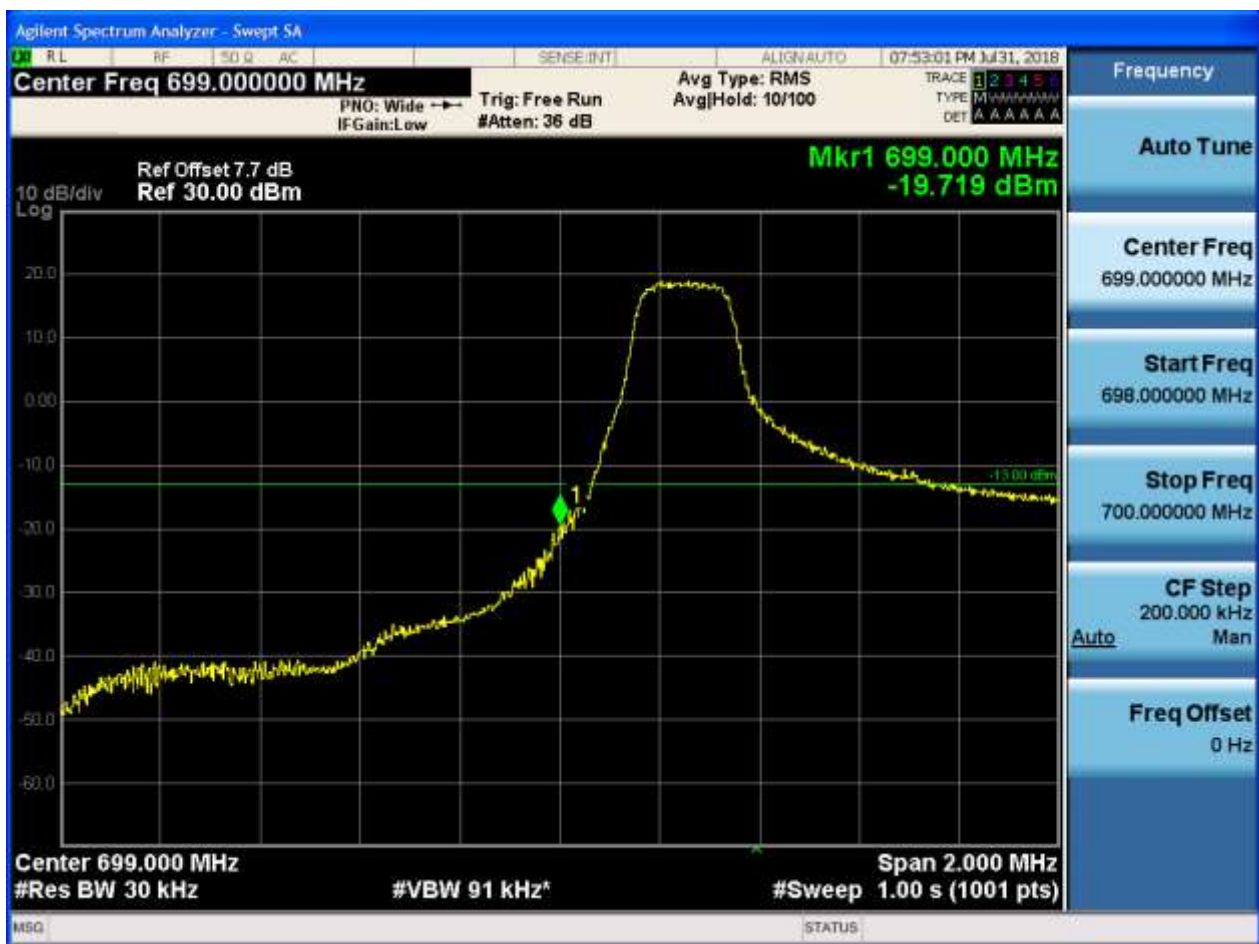
5.1.1 Test Band = BAND12

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





5.1.1.1.1.2 Test RB = RB1#5





5.1.1.1.1.3 Test RB = RB3#2



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





5.1.1.1.1.2.2 Test RB = RB1#5





5.1.1.1.1.2.3 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





5.1.1.1.2.2.3 Test RB = RB8#4





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





5.1.1.1.3.1.3 Test RB = RB12#6





5.1.1.1.3.1.4 Test RB = RB25#0





5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0





5.1.1.1.3.2.2 Test RB = RB1#24





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





5.1.1.1.4.1.3 Test RB = RB25#13





5.1.1.1.4.1.4 Test RB = RB50#0



5.1.1.1.4.2 Test Channel = HCH

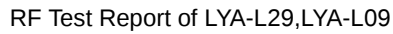
5.1.1.1.4.2.1 Test RB = RB1#0





5.1.1.1.4.2.2 Test RB = RB1#49





Agilent Spectrum Analyzer - Swept SA

Center Freq 716.000000 MHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 716.020 MHz
-32.288 dBm

10 dB/div
Log

Center 716.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 1.00 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
Man

Auto

Freq Offset
0 Hz

The image shows a screenshot of an Agilent Spectrum Analyzer in Swept SA mode. The main display is a log-scale plot of power spectral density (PSD) in dBm/Hz versus frequency. The trace is yellow and shows a relatively flat spectrum with a slight downward slope. A green marker labeled '1' is positioned at 716.020 MHz and -32.288 dBm. The plot area has a grid with major lines every 10 dB on the vertical axis and every 1 MHz on the horizontal axis. The vertical axis is labeled '10 dB/div Log' and ranges from -60.0 to 20.0 dBm. The horizontal axis is labeled 'Center 716.000 MHz' and 'Span 2.000 MHz'. The top of the screen displays various settings: Center Freq 716.000000 MHz, Ref Offset 7.7 dB, Ref 30.00 dBm, Mkr1 716.020 MHz, -32.288 dBm, 10 dB/div, Log, Center 716.000 MHz, #Res BW 100 kHz, #VBW 300 kHz*, Span 2.000 MHz, #Sweep 1.00 s (1001 pts). The right side of the screen shows a frequency control panel with buttons for Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, Auto, and Freq Offset. The top status bar shows the date and time: 08:02:15 PM Jul 31, 2018.



5.1.1.1.4.2.4 Test RB = RB50#0





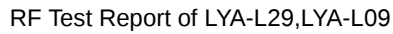
5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 1.4

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 699.000000 MHz

Ref Offset 7.7 dB
Ref 30.00 dBm

Mkr1 698.350 MHz
-30.814 dBm

10 dB/div
Log

Center 699.000 MHz
#Res BW 30 kHz
#VBW 91 kHz*
Span 2.000 MHz
#Sweep 1.00 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
Man

Auto

Freq Offset
0 Hz



5.1.1.2.1.1.3 Test RB = RB3#2





5.1.1.2.1.1.4 Test RB = RB6#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#5



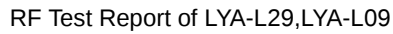
5.1.1.2.1.2.3 Test RB = RB3#2





5.1.1.2.1.2.4 Test RB = RB6#0







5.1.1.2.2.1.2 Test RB = RB1#14





5.1.1.2.2.1.3 Test RB = RB8#4





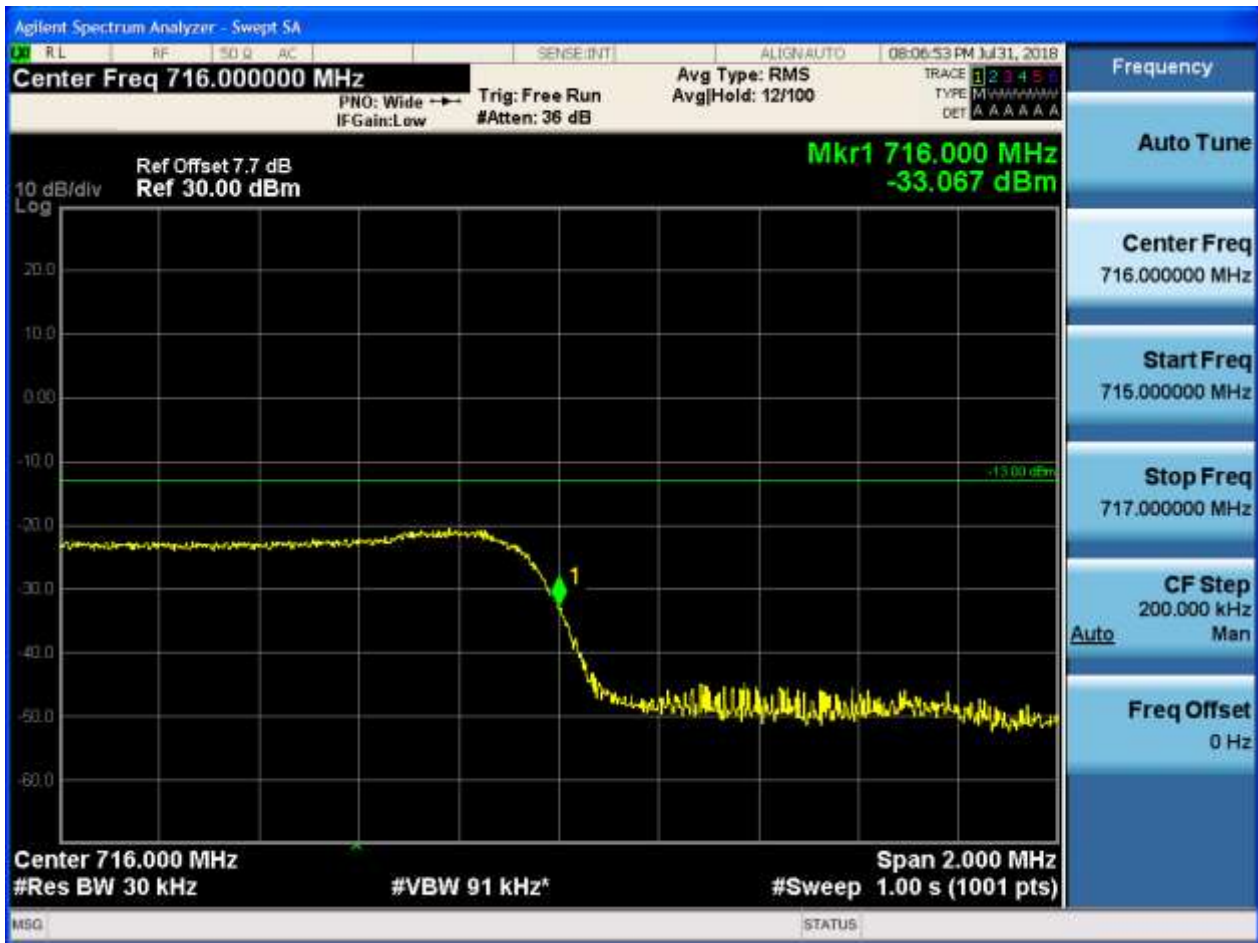
5.1.1.2.2.1.4 Test RB = RB15#0





5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





5.1.1.2.2.2 Test RB = RB1#14





5.1.1.2.2.3 Test RB = RB8#4





5.1.1.2.2.4 Test RB = RB15#0



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



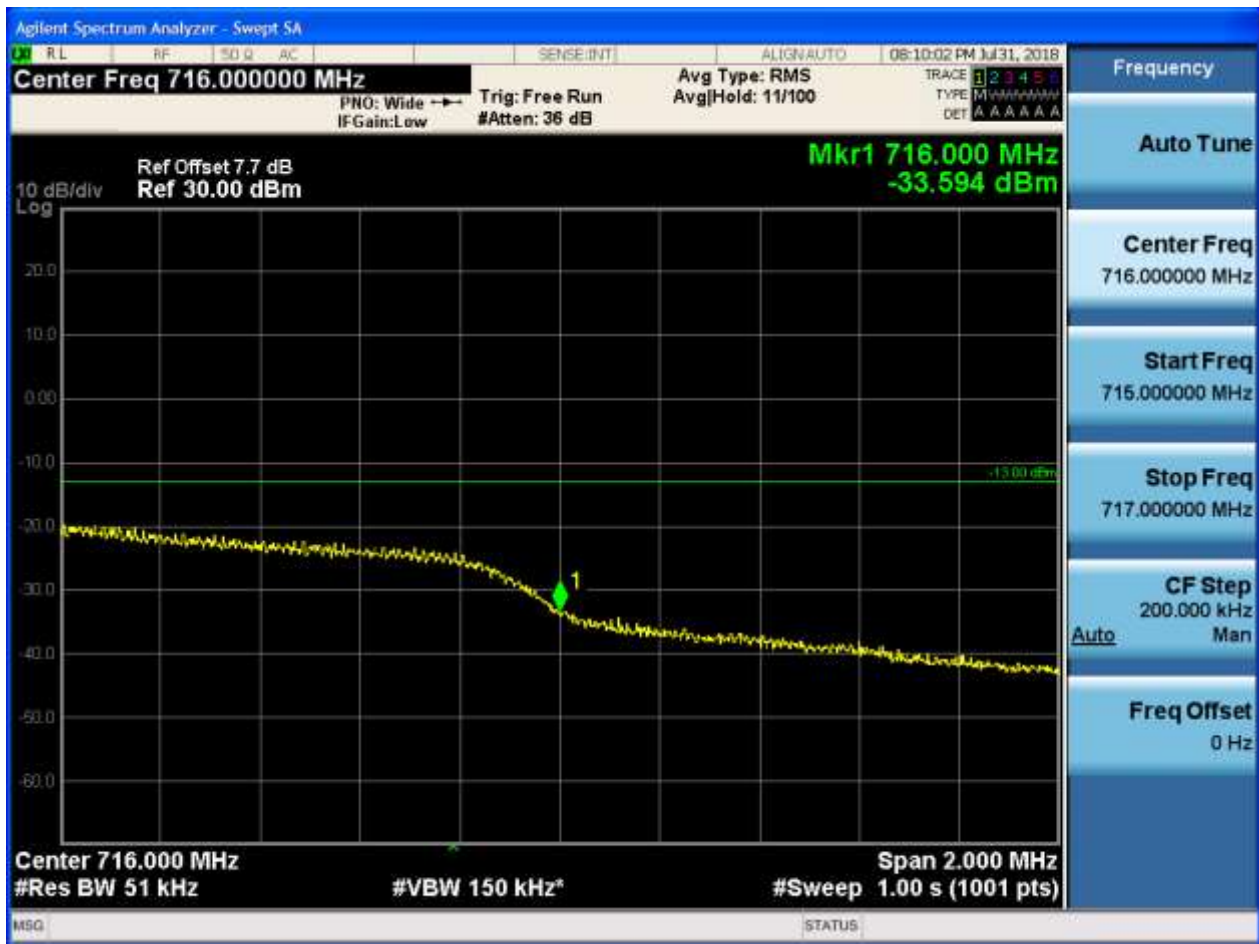


5.1.1.2.3.2.2 Test RB = RB1#24





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





5.1.1.2.4.1.3 Test RB = RB25#13





5.1.1.2.4.1.4 Test RB = RB50#0



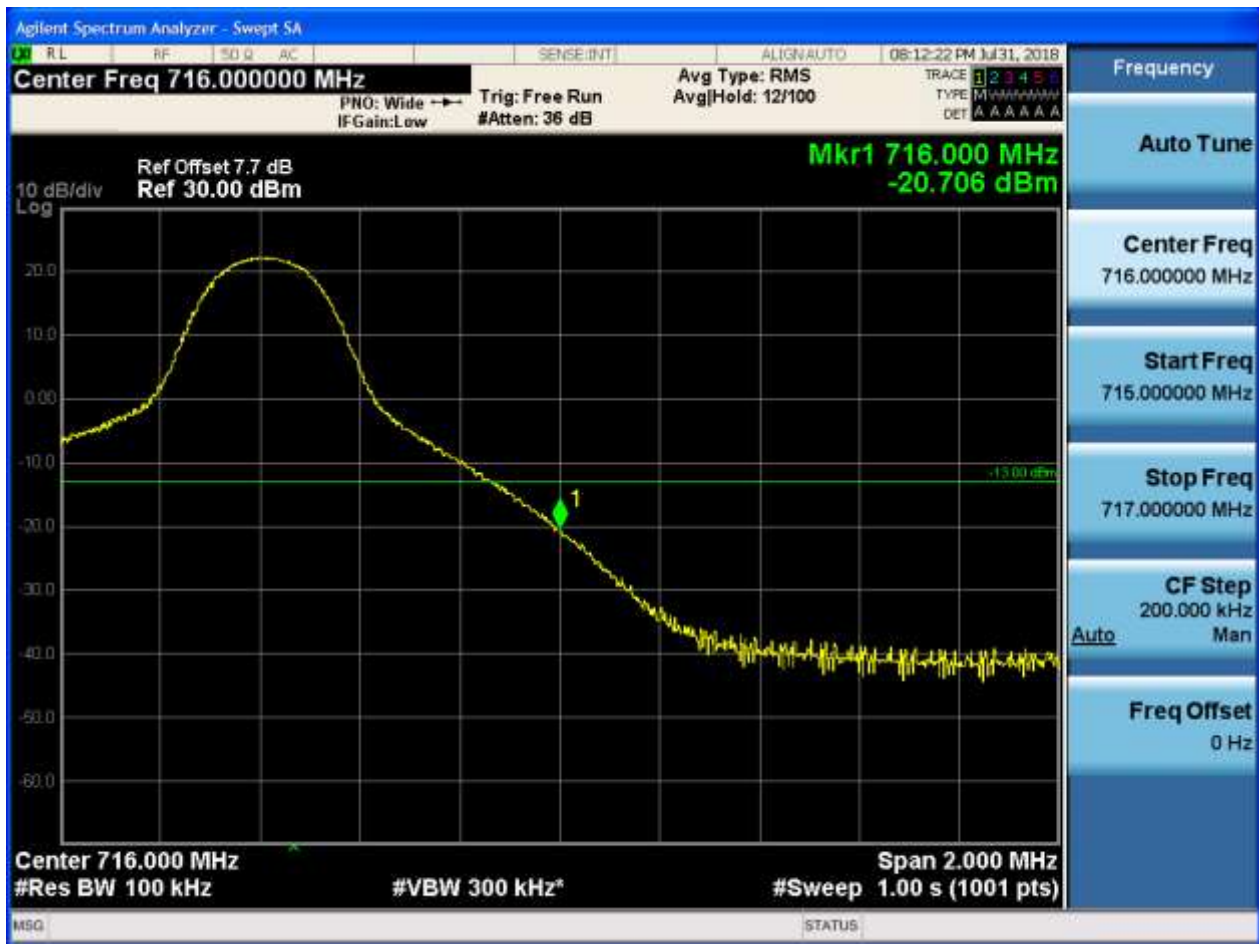
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



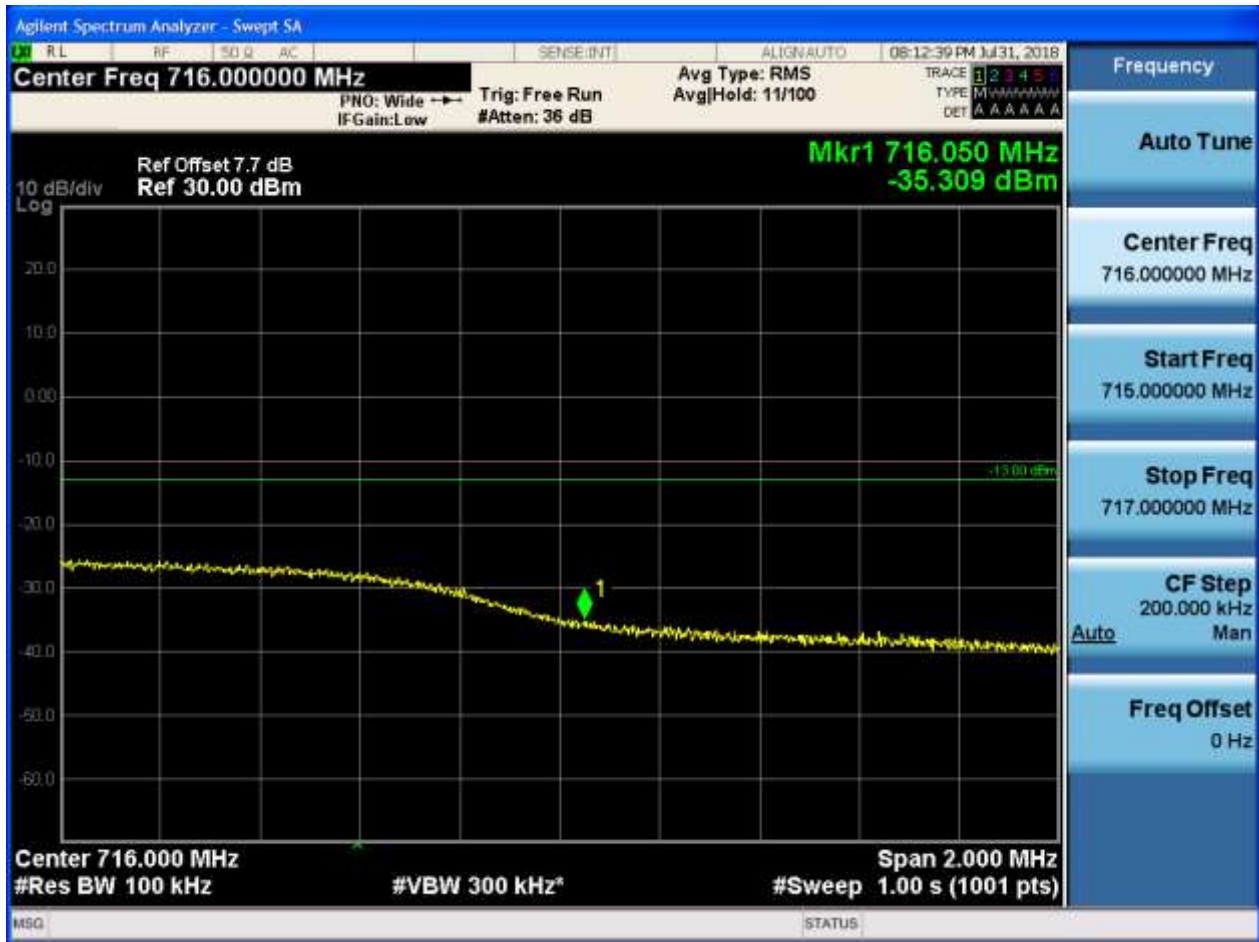


5.1.1.2.4.2.2 Test RB = RB1#49





5.1.1.2.4.2.3 Test RB = RB25#13





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

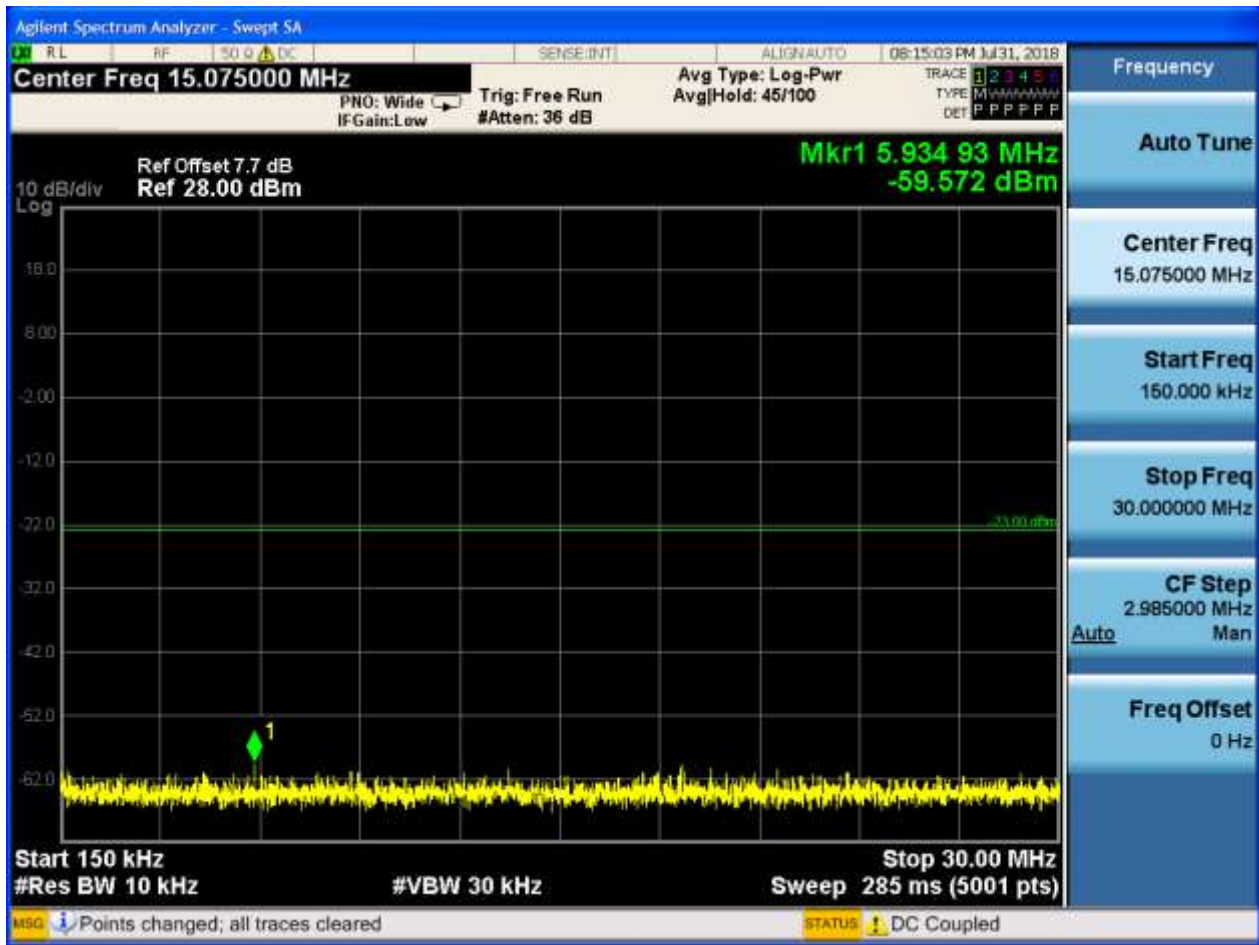
6.1.1.1 Test Mode = LTE/TM1

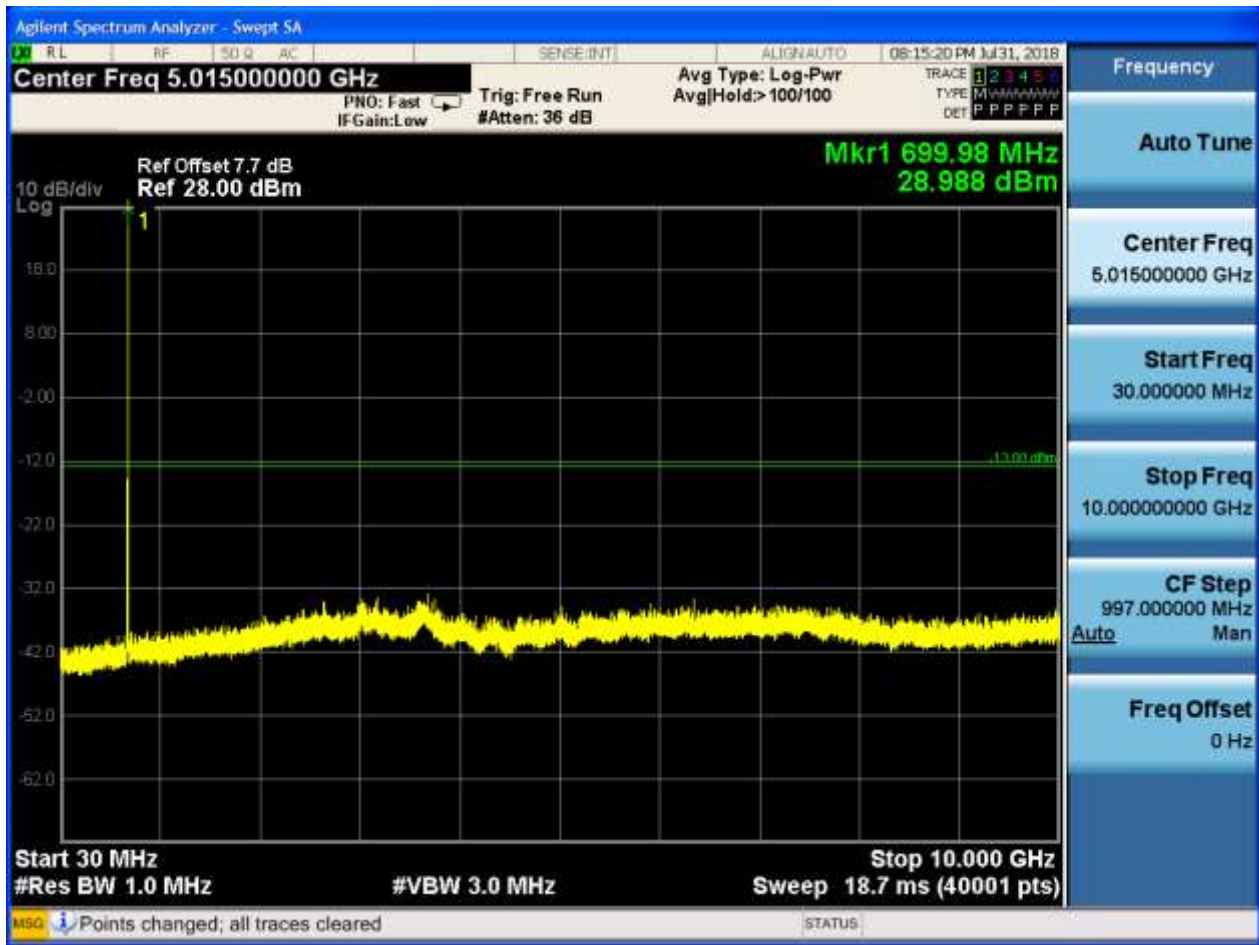
6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0



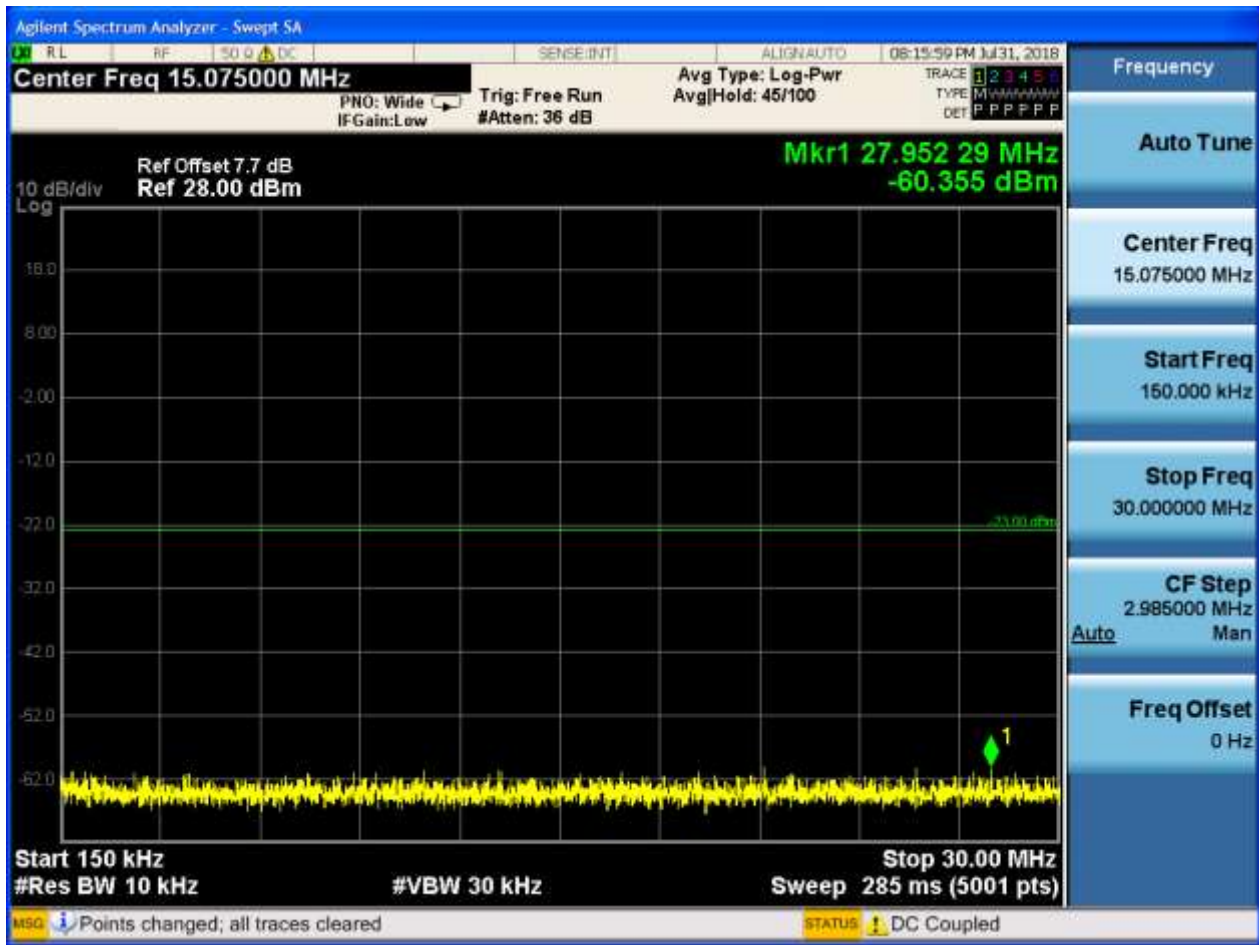




6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0





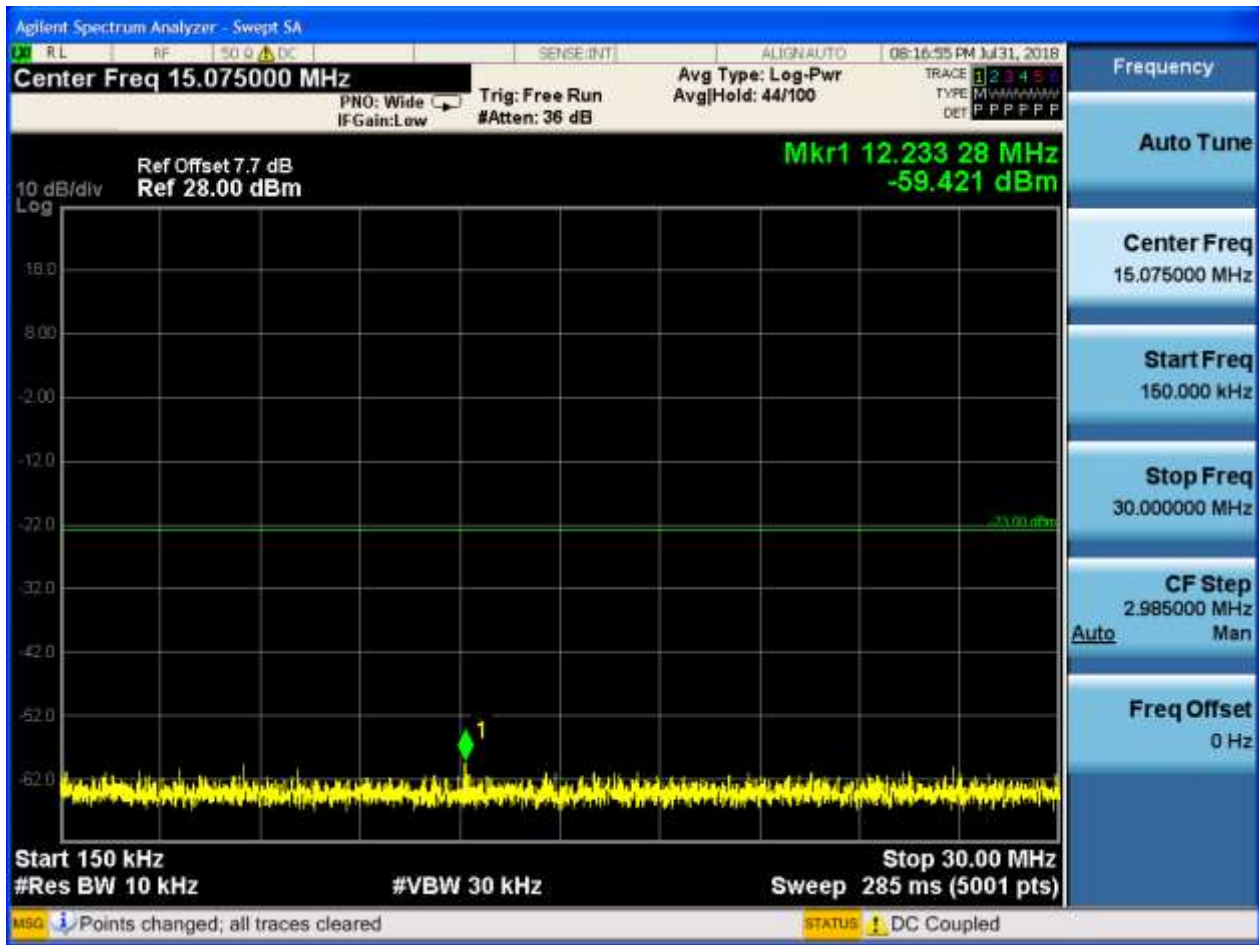




6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





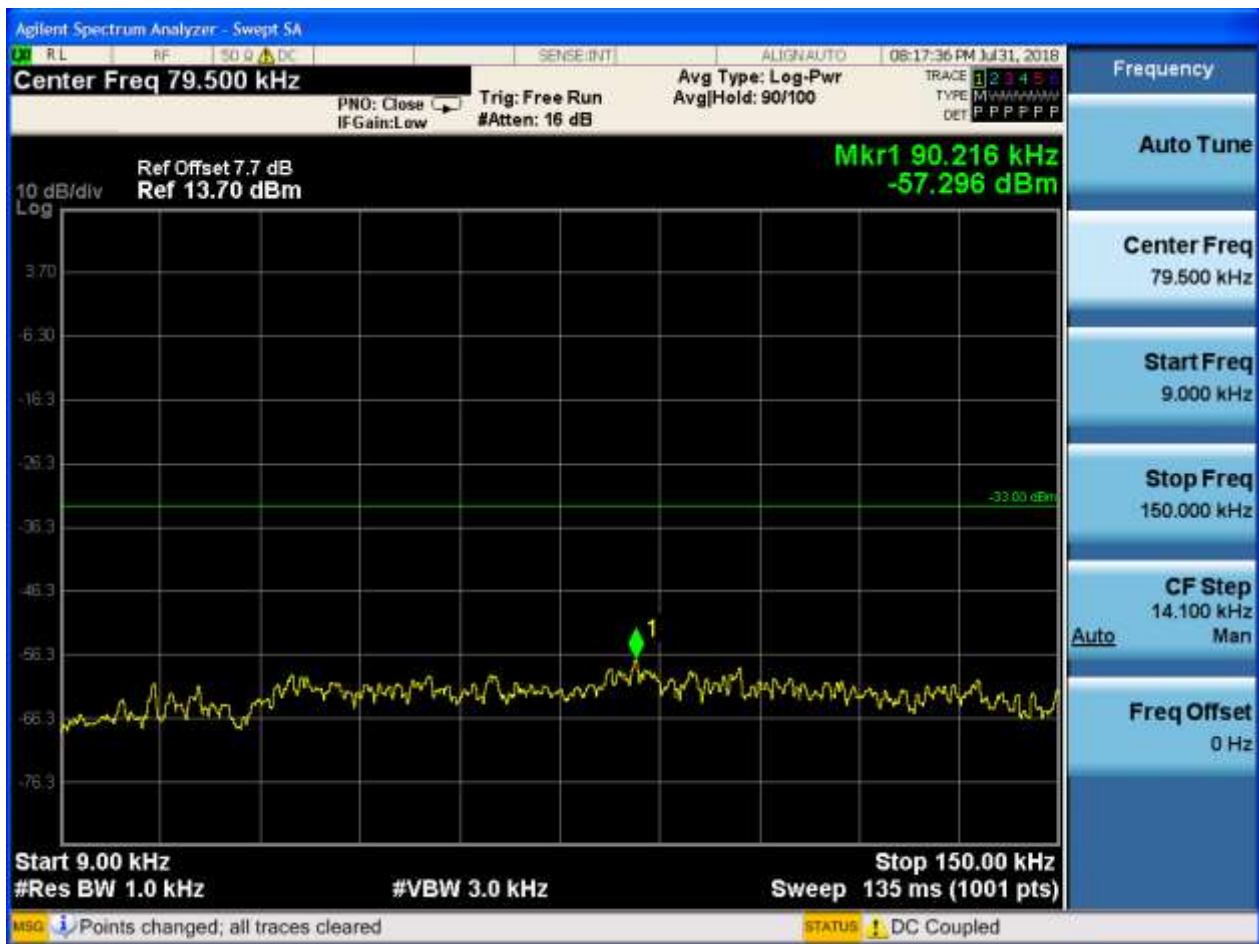


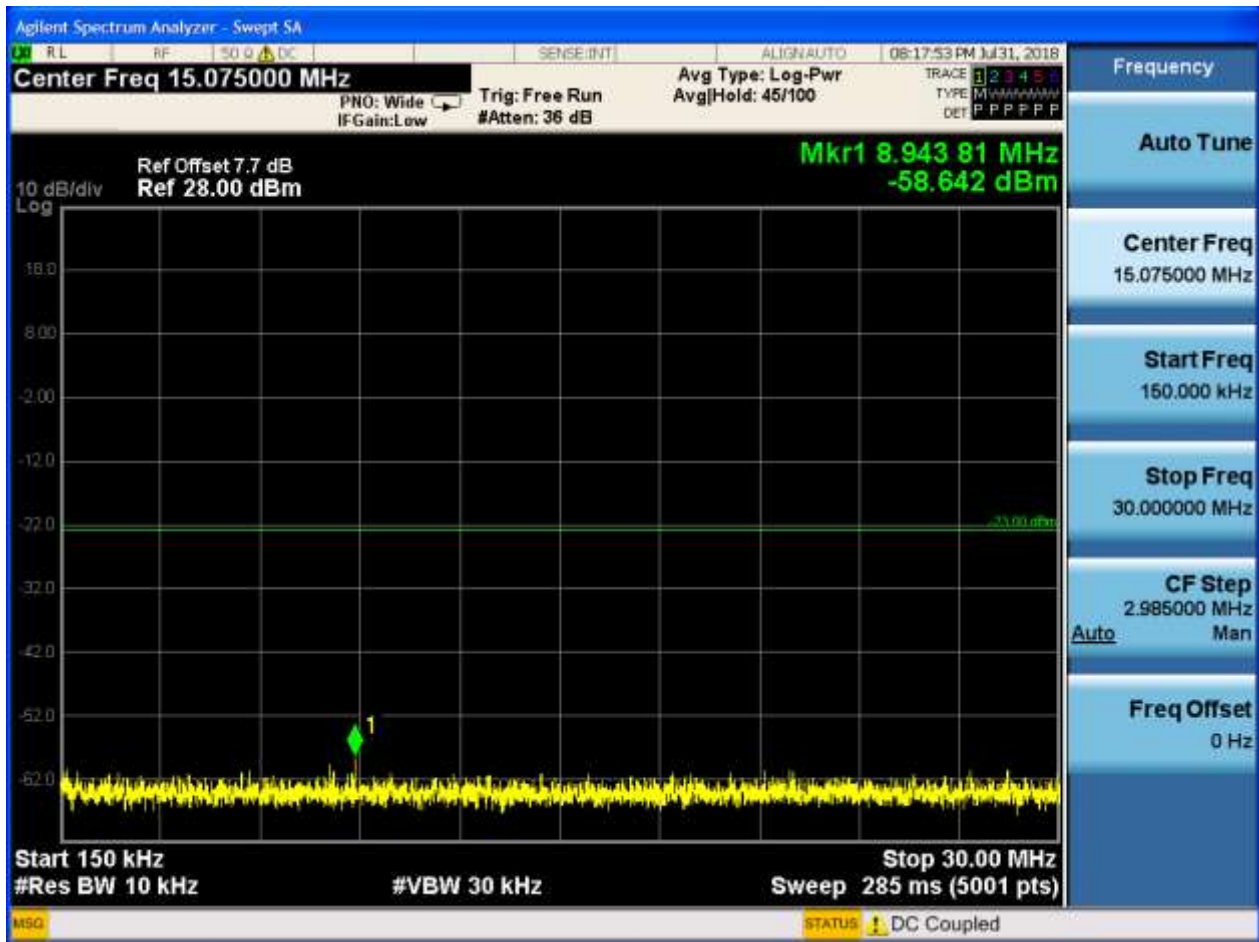


6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



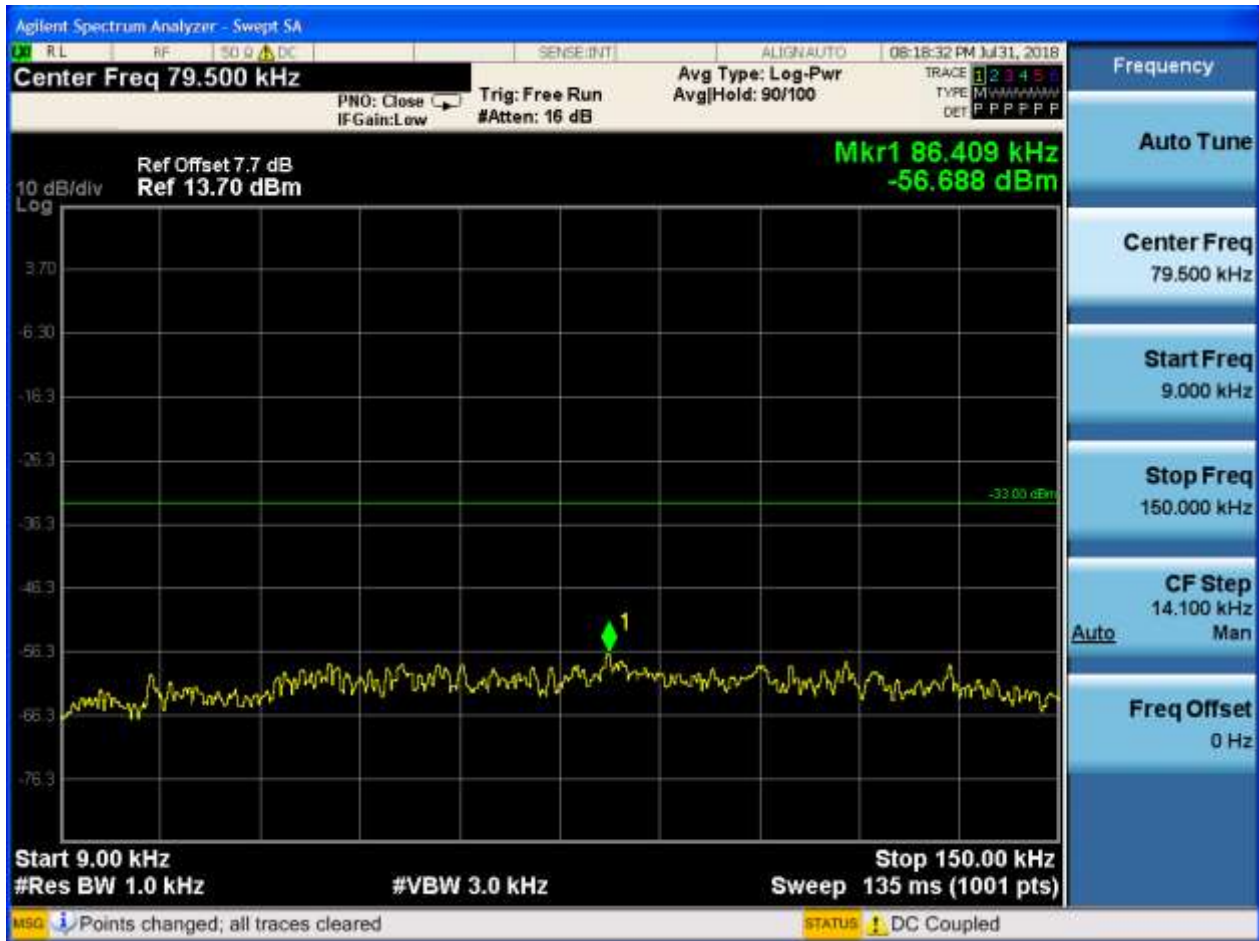


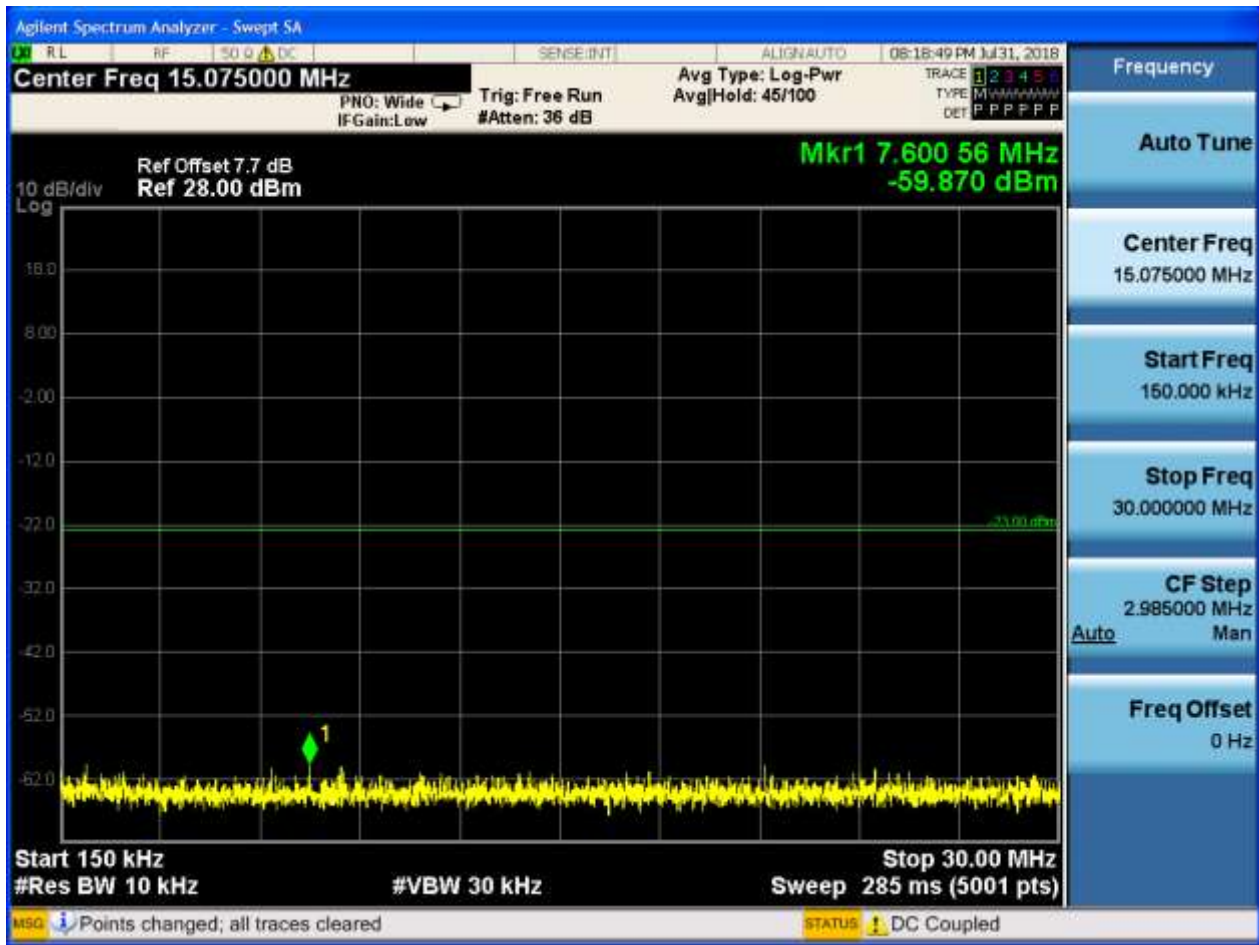


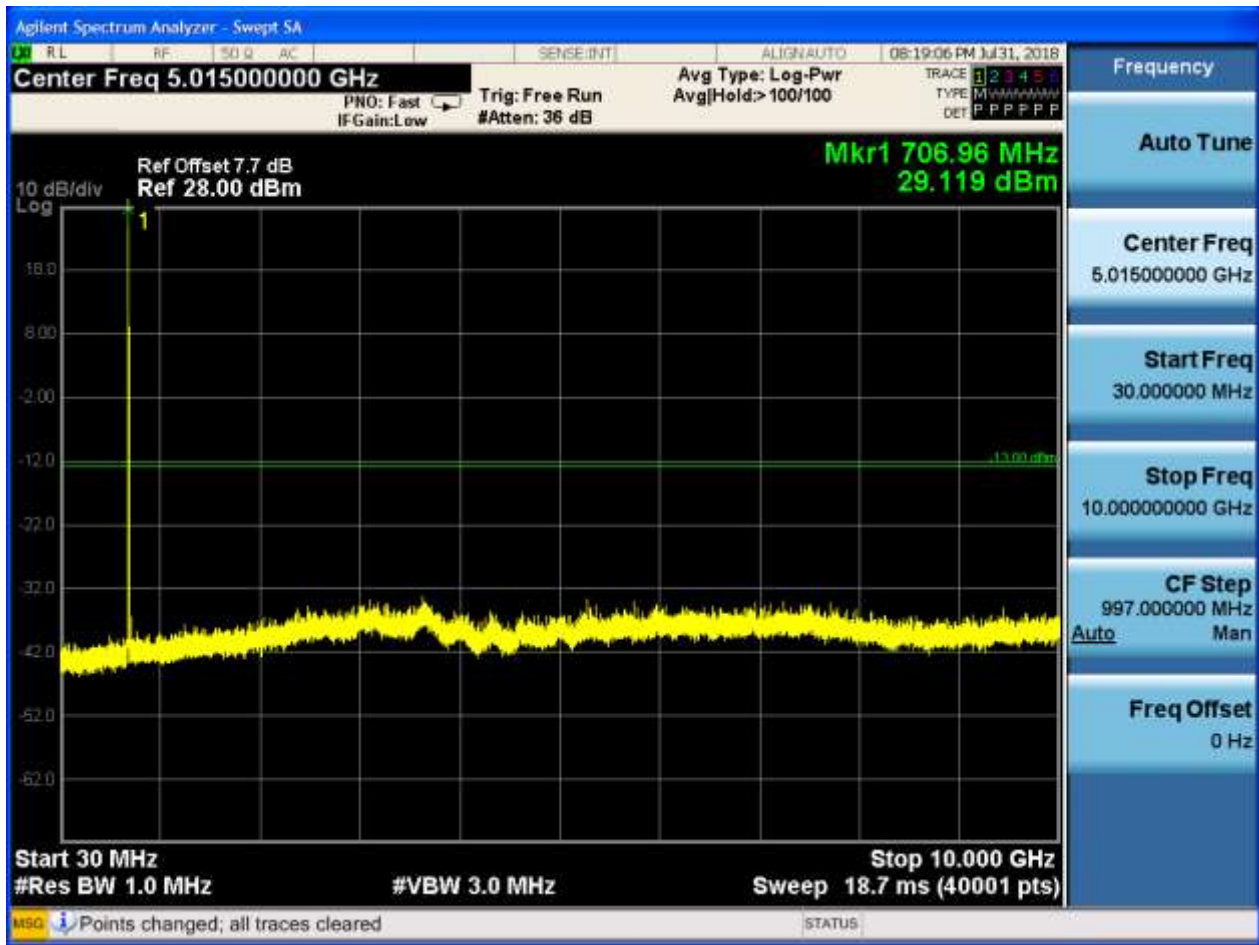


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



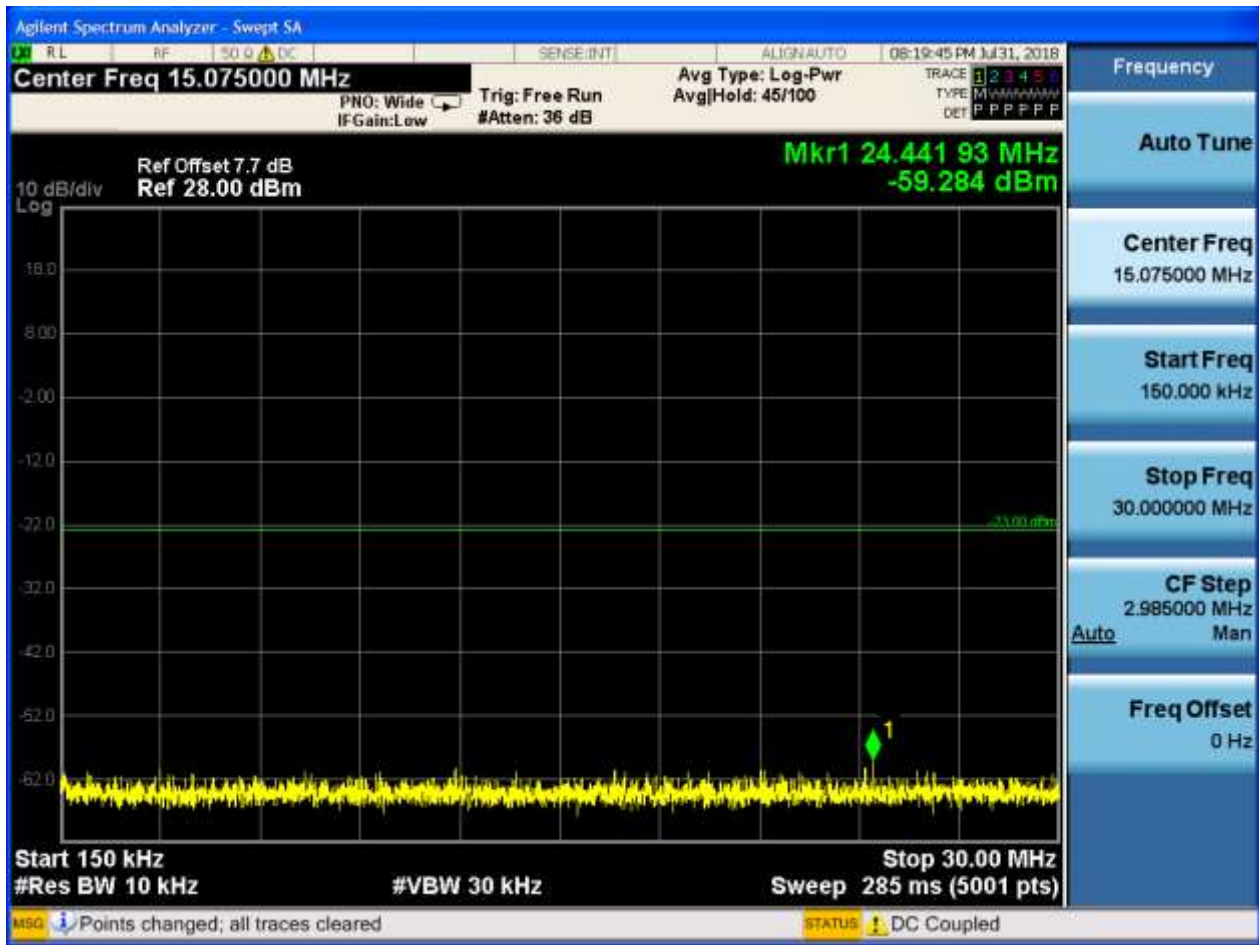




6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0





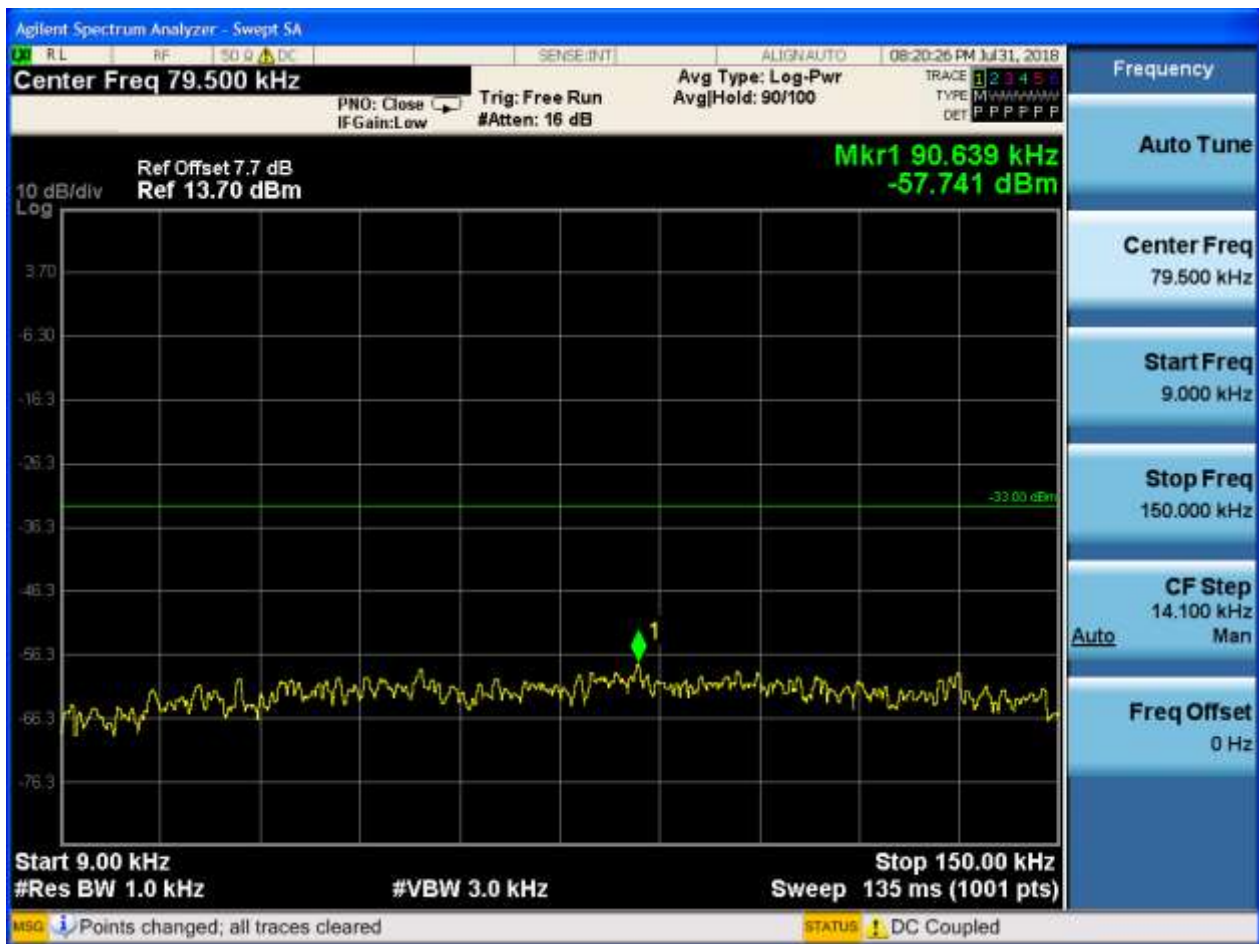


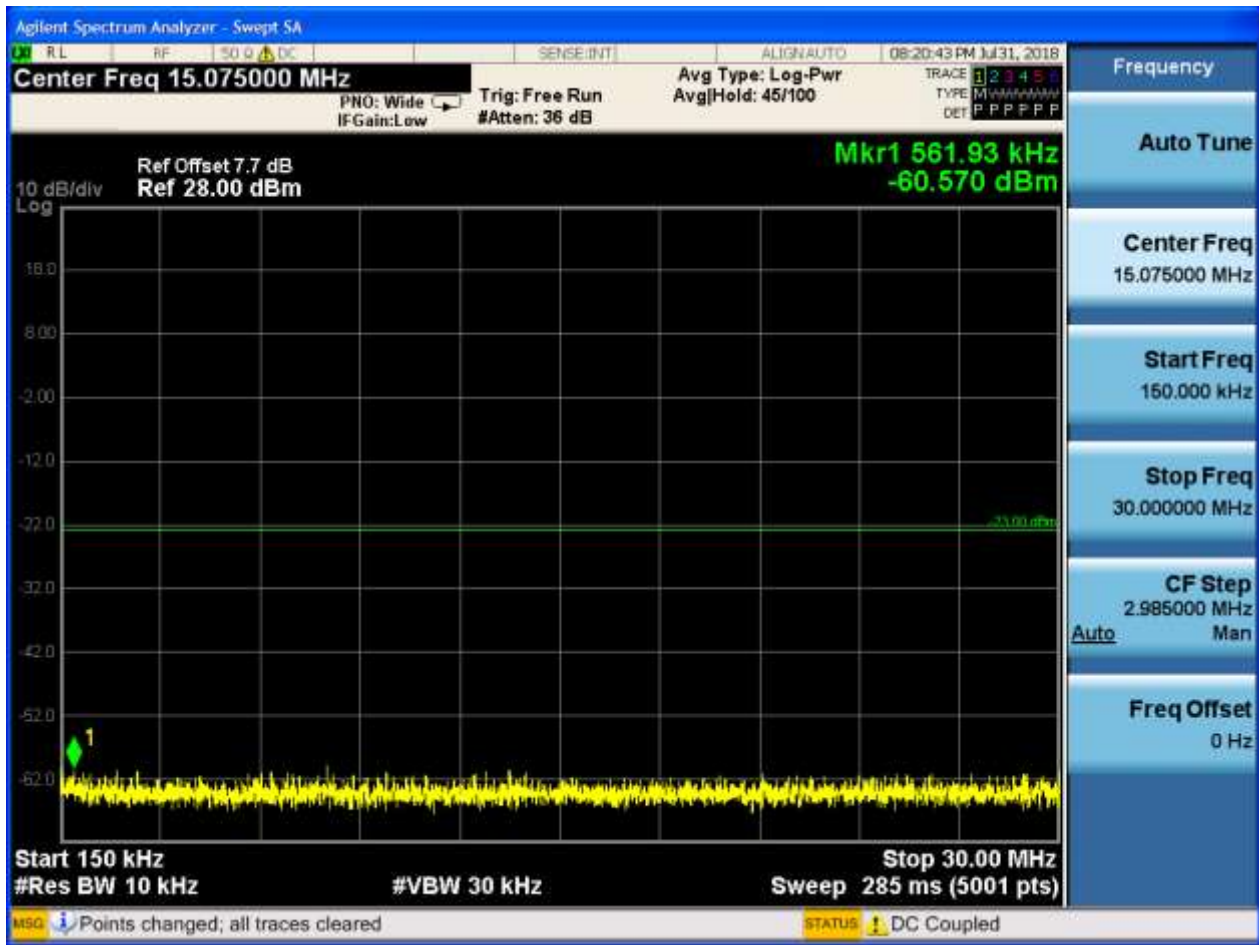


6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





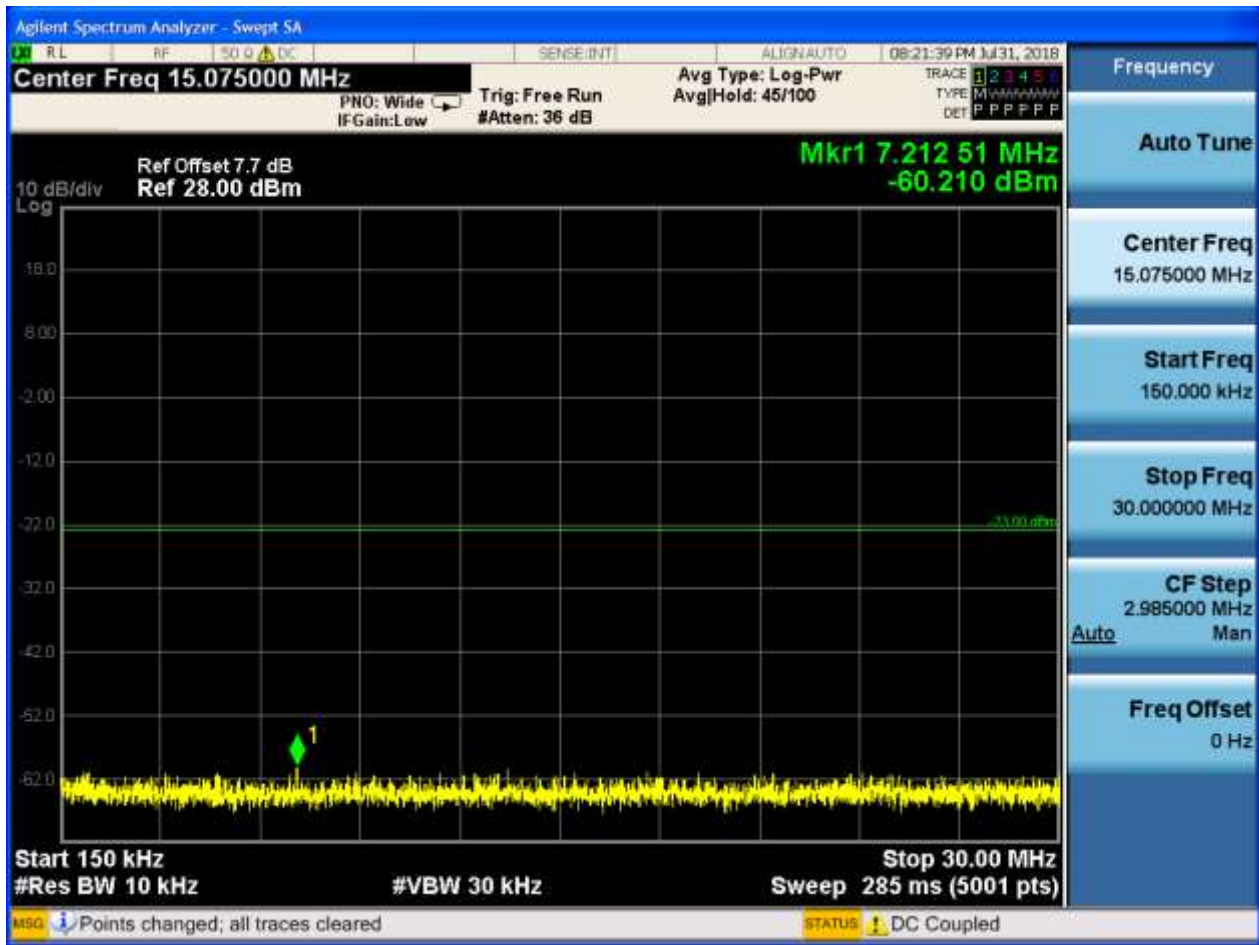




6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





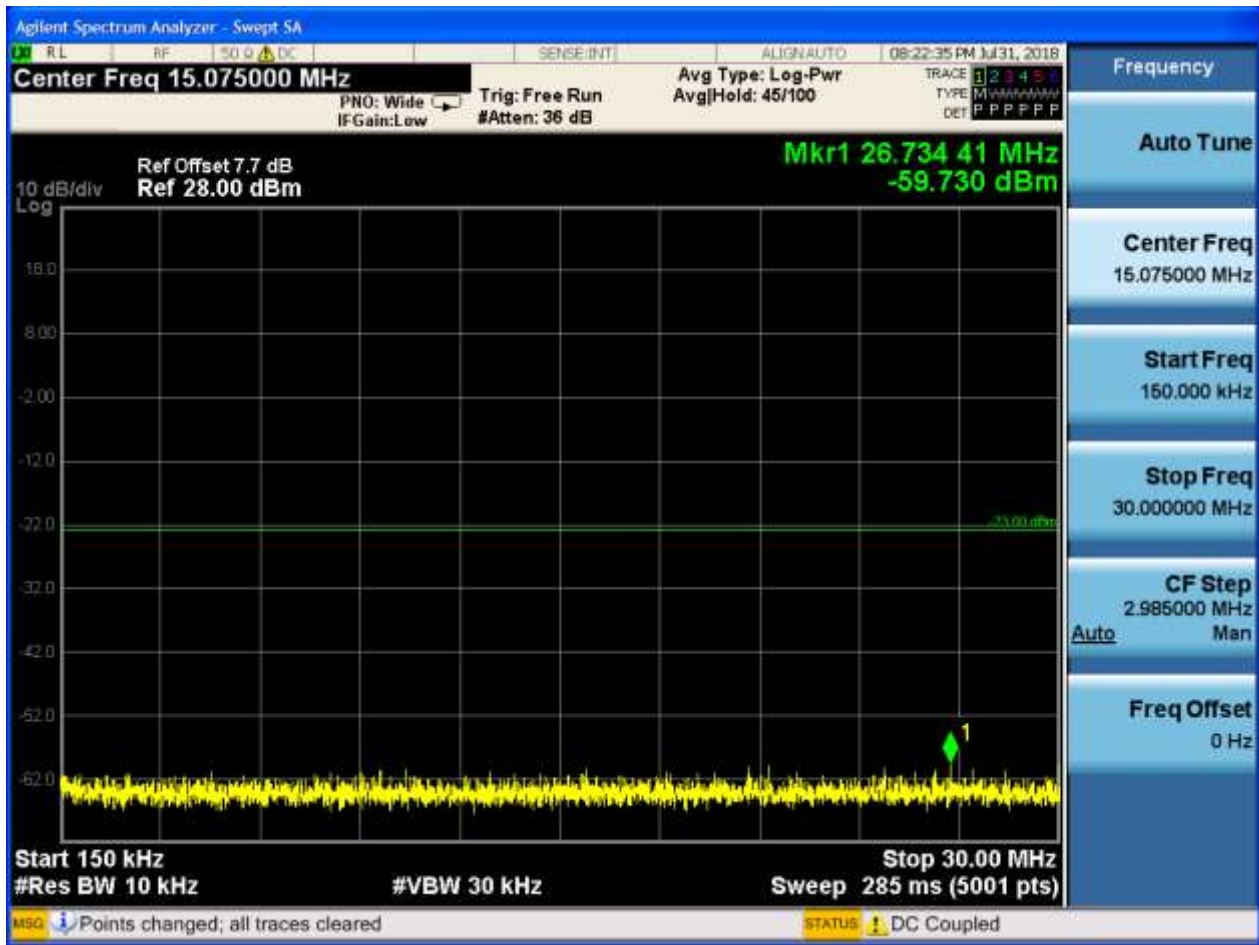




6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







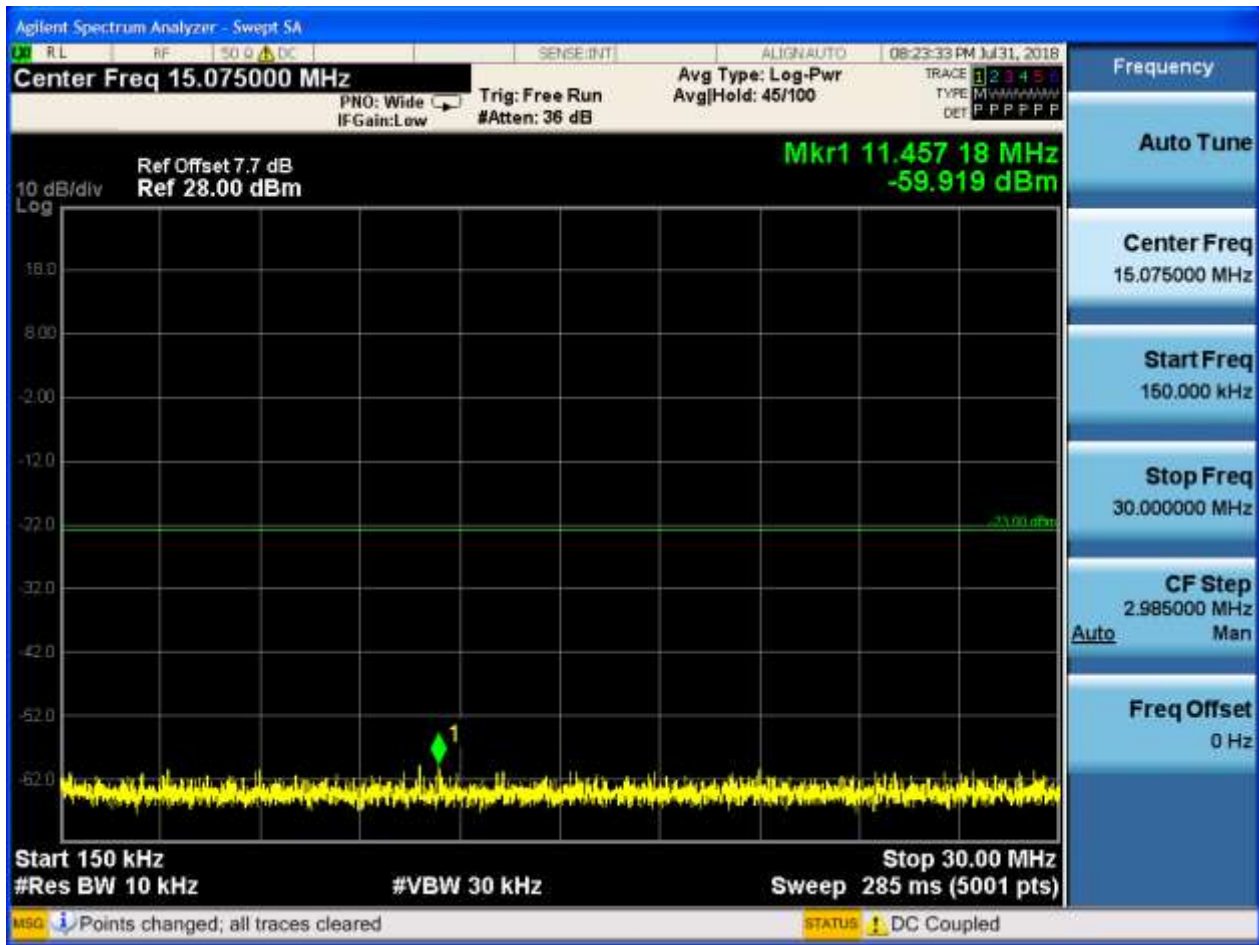


6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



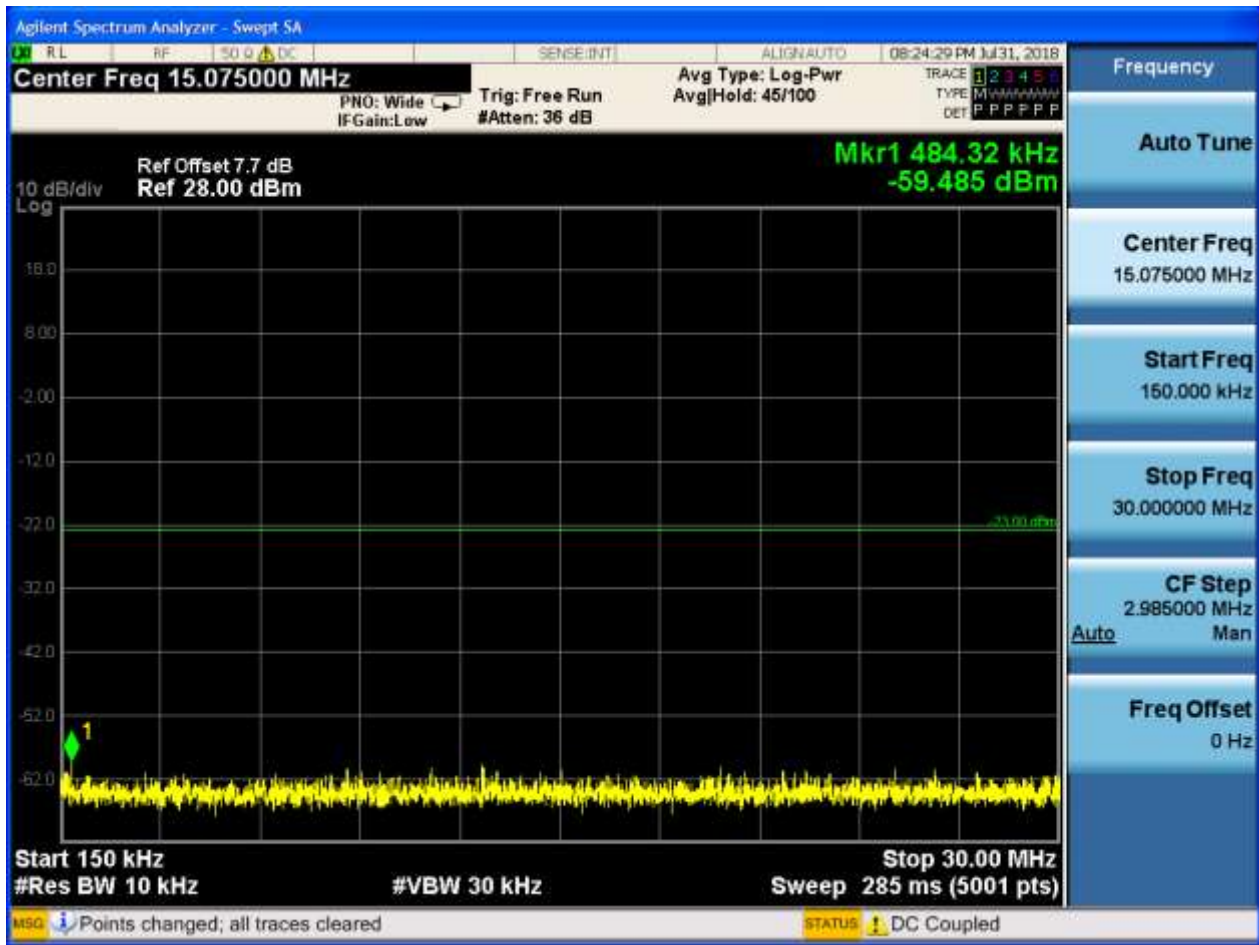




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





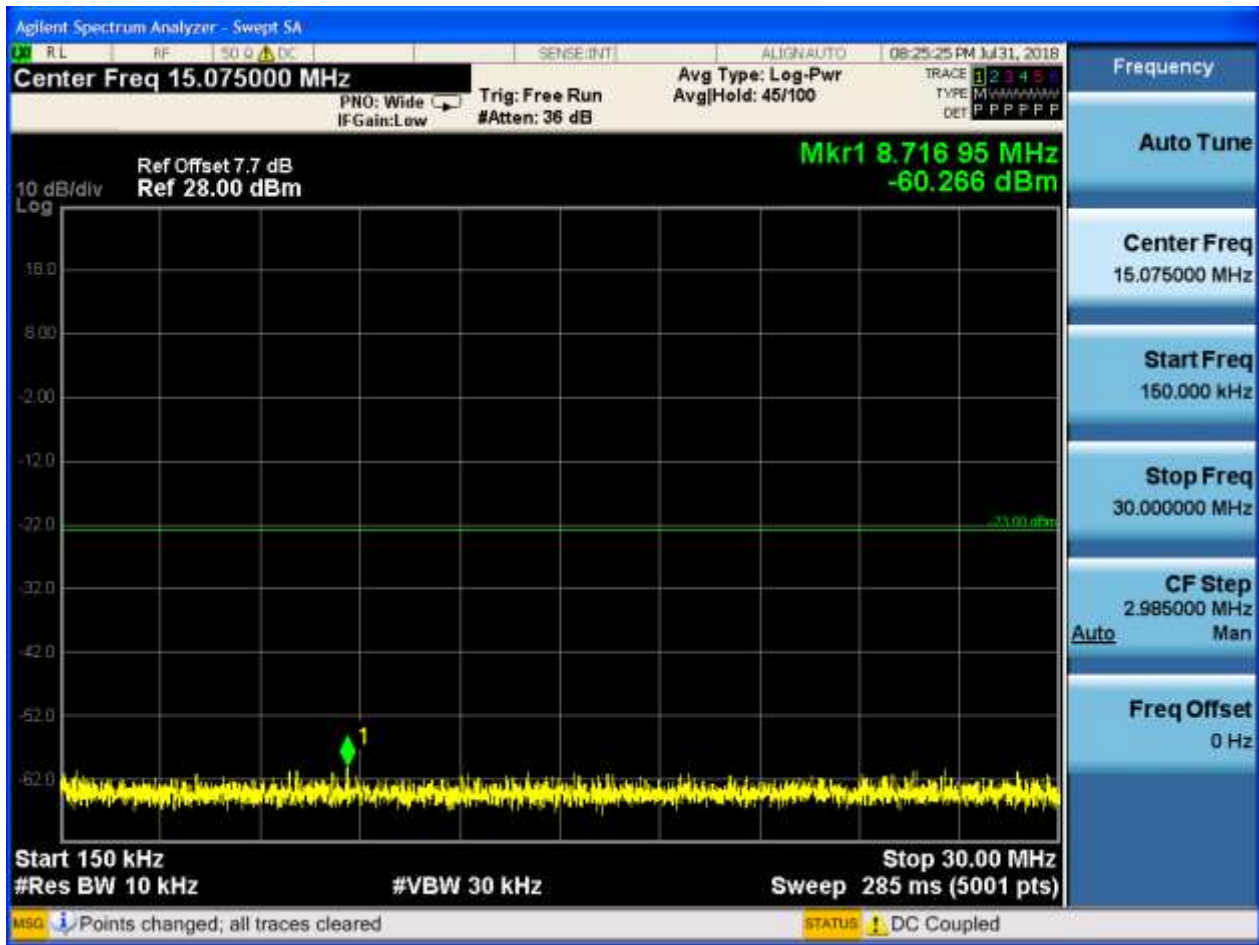




6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









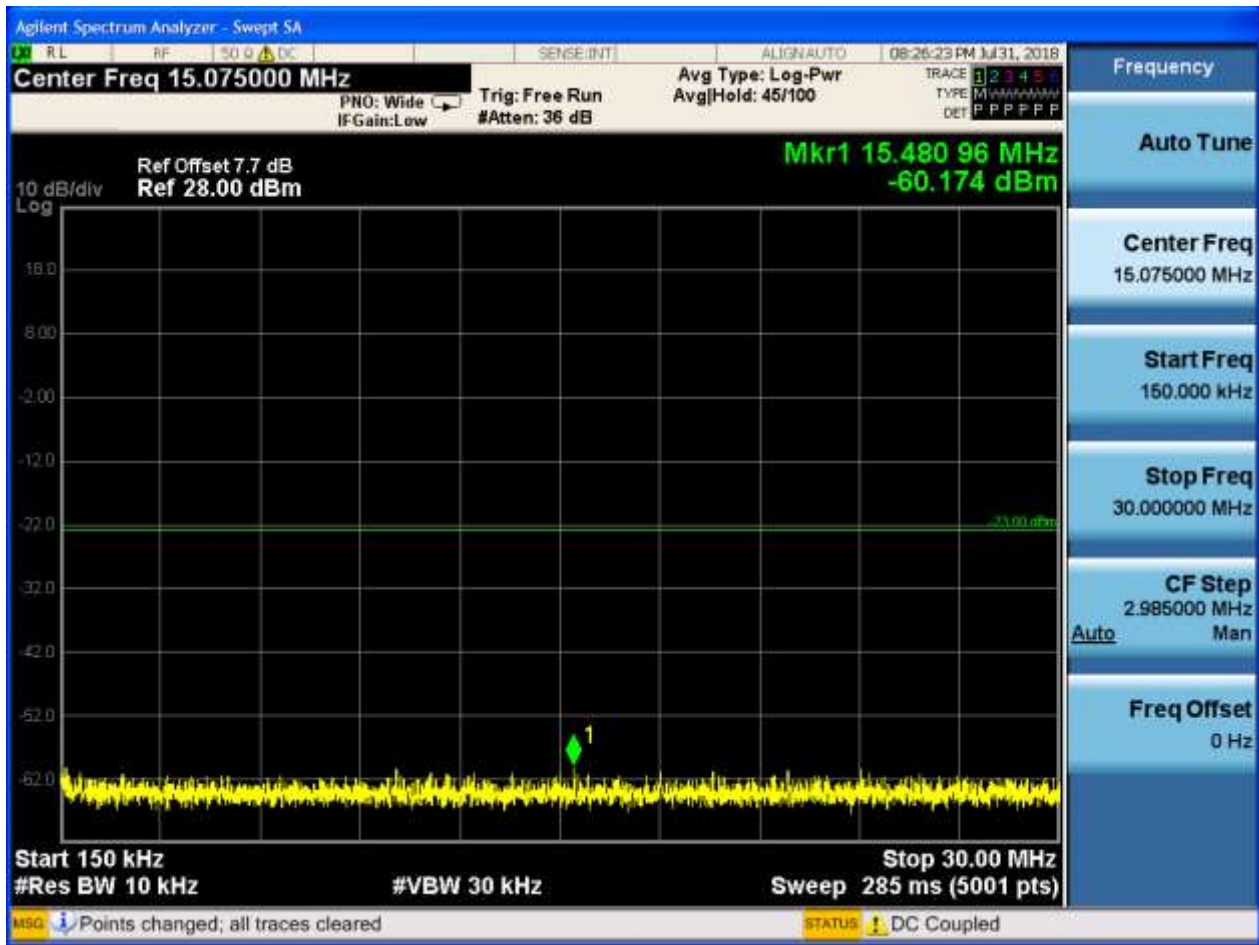
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





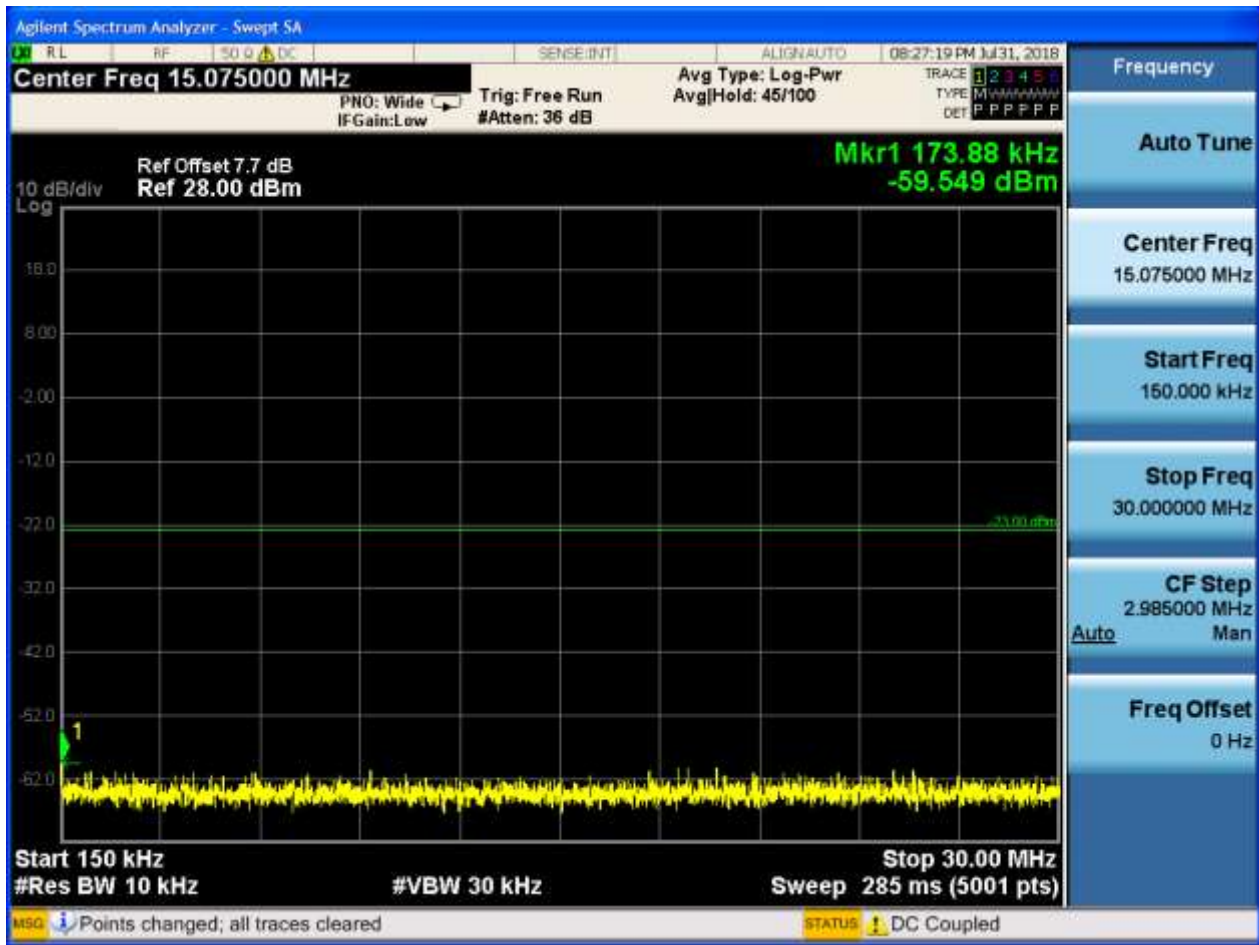




6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0





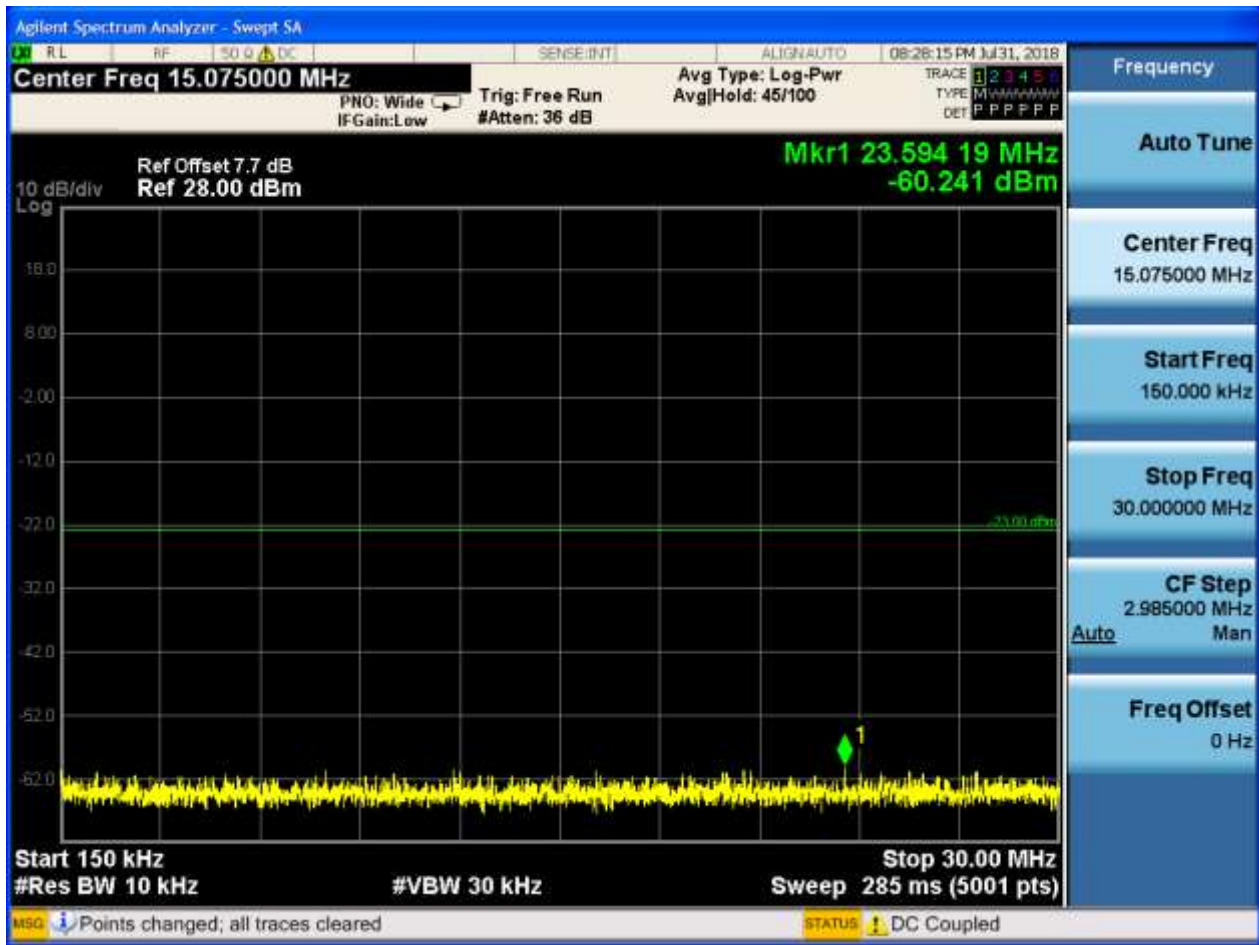




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0





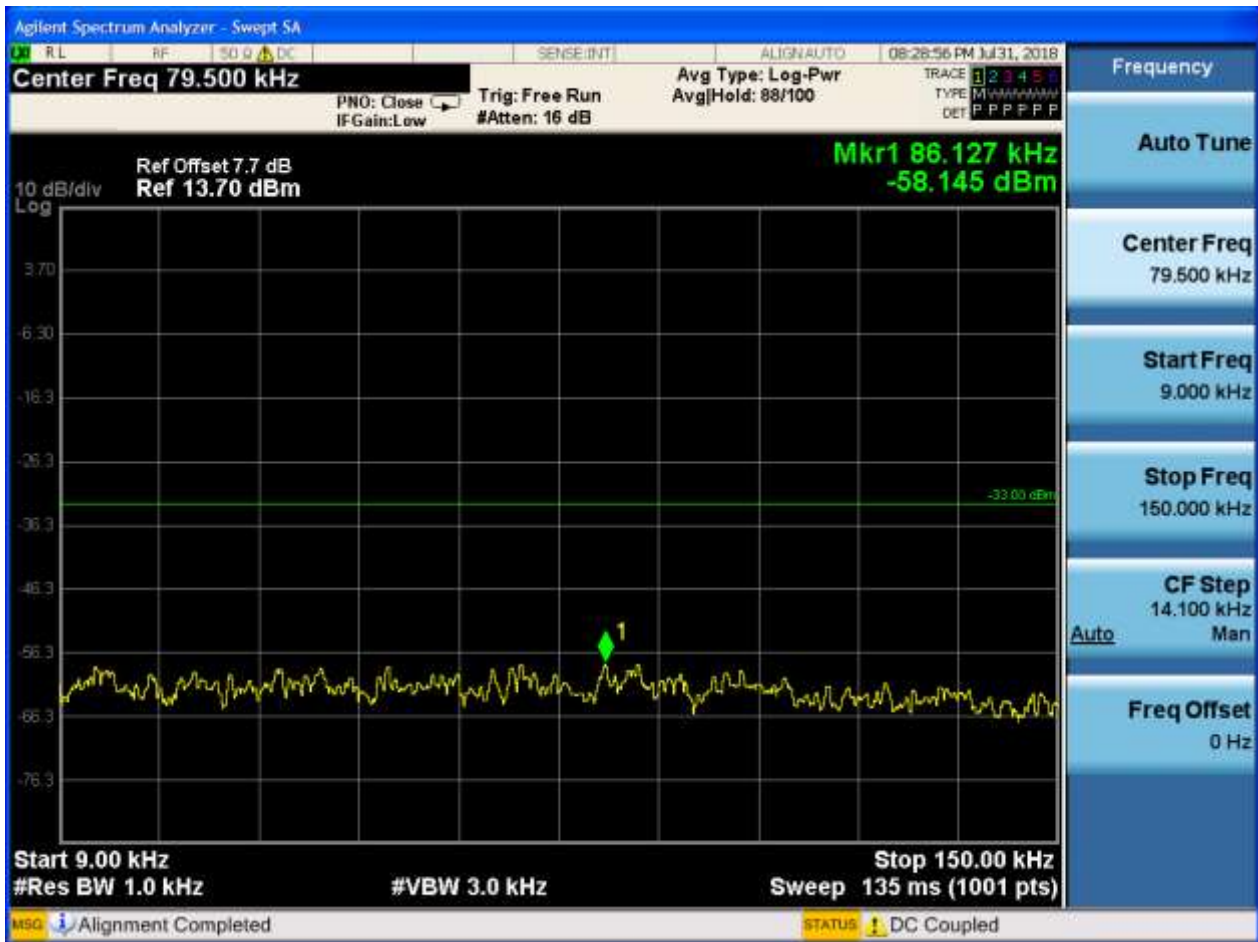


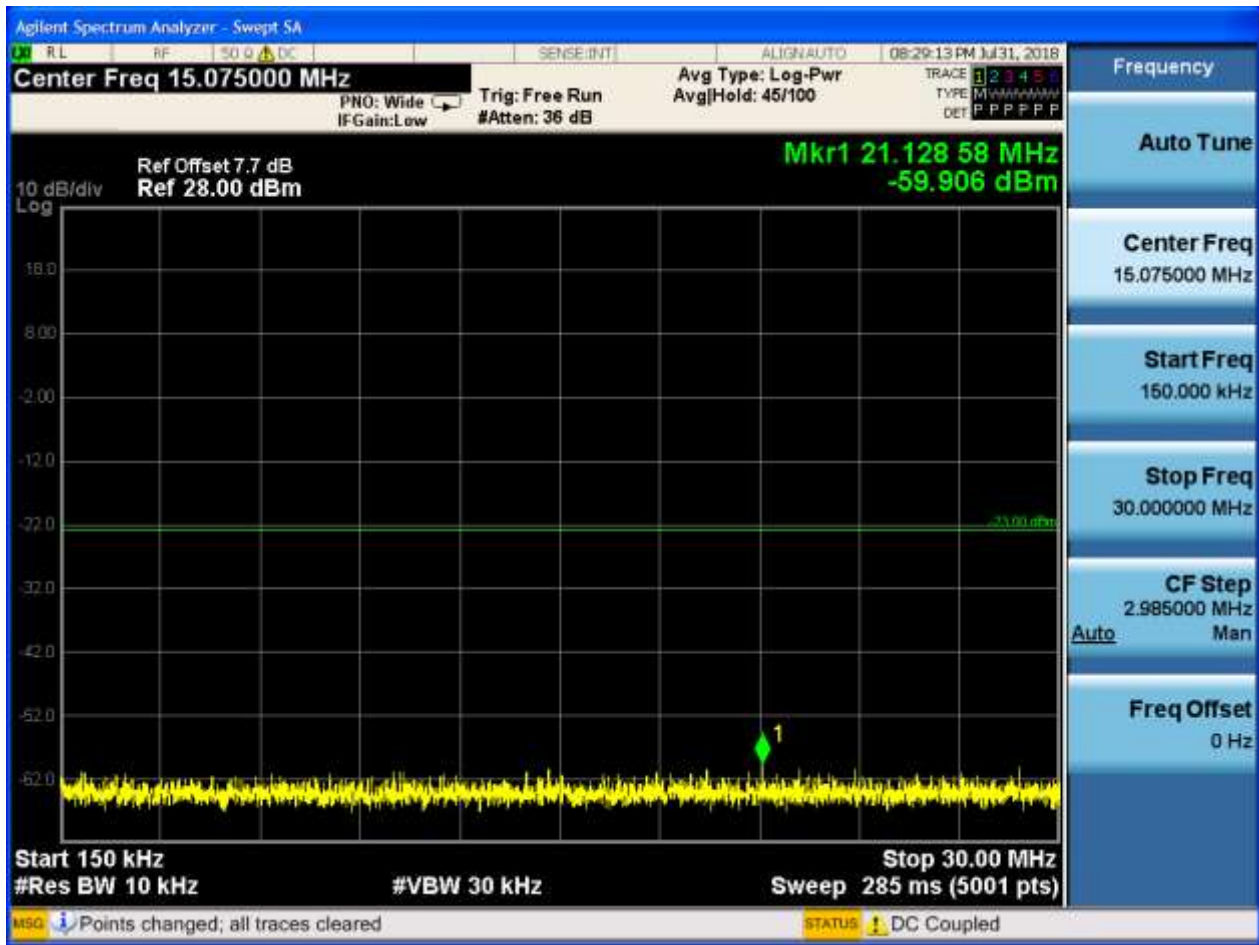


6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





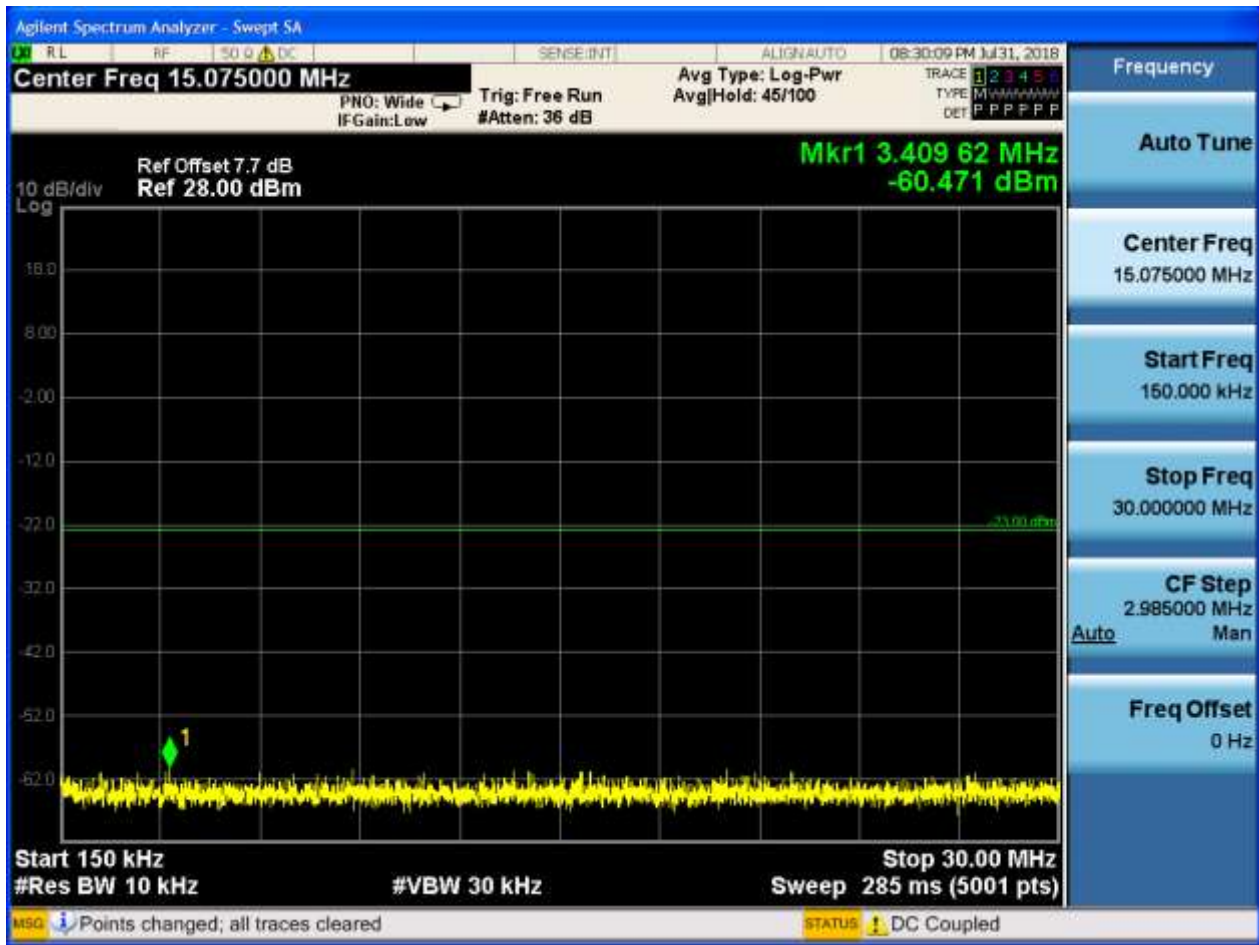




6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0









6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0

