



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
BAND4	LTE/TM1	1.4	LCH	RB1#0	23.36	23.04	30	PASS
				RB1#3	23.23	22.93	30	PASS
				RB1#5	23.31	23.09	30	PASS
				RB3#0	23.22	23.01	30	PASS
				RB3#2	23.04	22.96	30	PASS
				RB3#3	23.32	23.25	30	PASS
				RB6#0	22.15	22.00	30	PASS
			MCH	RB1#0	23.52	23.47	30	PASS
				RB1#3	23.21	23.10	30	PASS
				RB1#5	23.46	23.28	30	PASS
				RB3#0	23.38	23.04	30	PASS
				RB3#2	23.15	22.83	30	PASS
				RB3#3	23.32	23.21	30	PASS
				RB6#0	22.31	22.13	30	PASS
			HCH	RB1#0	23.49	23.36	30	PASS
				RB1#3	23.48	23.34	30	PASS
				RB1#5	23.44	23.27	30	PASS
				RB3#0	23.37	23.25	30	PASS
				RB3#2	23.36	23.01	30	PASS
				RB3#3	23.33	23.13	30	PASS
				RB6#0	22.27	22.07	30	PASS
		3	LCH	RB1#0	23.38	23.12	30	PASS
				RB1#7	22.57	22.21	30	PASS
				RB1#14	23.48	23.42	30	PASS
				RB8#0	22.25	22.16	30	PASS
				RB8#4	22.3	22.03	30	PASS
				RB8#7	22.14	21.74	30	PASS
				RB15#0	22.3	22.15	30	PASS
			MCH	RB1#0	23.32	23.20	30	PASS
				RB1#7	23.23	23.05	30	PASS
				RB1#14	23.44	23.08	30	PASS
				RB8#0	22.45	22.09	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB8#4	22.4	22.03	30	PASS
				RB8#7	22.38	21.96	30	PASS
				RB15#0	22.46	22.36	30	PASS
			HCH	RB1#0	23.52	23.34	30	PASS
				RB1#7	22.81	22.71	30	PASS
				RB1#14	23.61	23.20	30	PASS
				RB8#0	22.36	22.18	30	PASS
				RB8#4	22.28	22.20	30	PASS
				RB8#7	22.26	22.00	30	PASS
				RB15#0	22.5	22.24	30	PASS
		5	LCH	RB1#0	23.4	23.26	30	PASS
				RB1#13	23.46	23.19	30	PASS
				RB1#24	23.47	23.27	30	PASS
				RB12#0	22.42	22.17	30	PASS
				RB12#6	22.47	22.42	30	PASS
				RB12#13	22.46	22.20	30	PASS
				RB25#0	22.38	22.09	30	PASS
			MCH	RB1#0	23.37	23.28	30	PASS
				RB1#13	23.36	22.96	30	PASS
				RB1#24	23.35	23.02	30	PASS
				RB12#0	22.55	22.27	30	PASS
				RB12#6	22.43	22.01	30	PASS
				RB12#13	22.42	22.31	30	PASS
				RB25#0	22.48	22.44	30	PASS
			HCH	RB1#0	23.53	23.48	30	PASS
				RB1#13	23.47	23.45	30	PASS
				RB1#24	23.56	23.45	30	PASS
				RB12#0	22.57	22.43	30	PASS
				RB12#6	22.44	22.37	30	PASS
				RB12#13	22.48	22.09	30	PASS
				RB25#0	22.48	22.25	30	PASS
		10	LCH	RB1#0	23.41	23.03	30	PASS
				RB1#25	23.3	23.05	30	PASS
				RB1#49	23.52	23.24	30	PASS
				RB25#0	22.37	22.06	30	PASS
				RB25#1	22.35	22.28	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				3				
				RB25#25	22.41	22.17	30	PASS
				RB50#0	22.37	22.01	30	PASS
			MCH	RB1#0	23.36	23.22	30	PASS
				RB1#25	23.31	23.02	30	PASS
				RB1#49	23.45	23.39	30	PASS
				RB25#0	22.5	22.26	30	PASS
				RB25#13	22.39	22.33	30	PASS
				RB25#25	22.51	22.10	30	PASS
				RB50#0	22.52	22.35	30	PASS
			HCH	RB1#0	23.38	23.13	30	PASS
				RB1#25	23.17	23.00	30	PASS
				RB1#49	23.47	23.11	30	PASS
				RB25#0	22.51	22.41	30	PASS
				RB25#13	22.47	22.34	30	PASS
				RB25#25	22.45	22.21	30	PASS
				RB50#0	22.46	22.42	30	PASS
		15	LCH	RB1#0	23.3	23.13	30	PASS
				RB1#38	23.36	22.96	30	PASS
				RB1#74	23.45	23.34	30	PASS
				RB38#0	22.4	22.22	30	PASS
				RB38#19	22.34	22.16	30	PASS
				RB38#39	22.52	22.29	30	PASS
				RB75#0	22.38	22.25	30	PASS
			MCH	RB1#0	23.49	23.13	30	PASS
				RB1#38	23.38	23.30	30	PASS
				RB1#74	23.41	23.12	30	PASS
				RB38#0	22.46	22.33	30	PASS
				RB38#19	22.43	22.04	30	PASS
				RB38#39	22.49	22.14	30	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
			HCH	RB75#0	22.53	22.19	30	PASS
				RB1#0	23.41	23.34	30	PASS
				RB1#38	23.49	23.41	30	PASS
				RB1#74	23.52	23.18	30	PASS
				RB38#0	22.34	22.25	30	PASS
				RB38#19	22.48	22.16	30	PASS
				RB38#39	22.42	22.07	30	PASS
				RB75#0	22.43	22.07	30	PASS
		20	LCH	RB1#0	23.52	23.17	30	PASS
				RB1#50	22.85	22.79	30	PASS
				RB1#99	23.62	23.58	30	PASS
				RB50#0	22.39	22.13	30	PASS
				RB50#25	22.38	22.29	30	PASS
				RB50#50	22.54	22.50	30	PASS
				RB100#0	22.34	22.02	30	PASS
			MCH	RB1#0	23.53	23.21	30	PASS
				RB1#50	23.16	22.84	30	PASS
				RB1#99	23.59	23.38	30	PASS
				RB50#0	22.58	22.47	30	PASS
				RB50#25	22.54	22.36	30	PASS
				RB50#50	22.47	22.15	30	PASS
				RB100#0	22.55	22.30	30	PASS
			HCH	RB1#0	23.59	23.33	30	PASS
				RB1#50	23.24	22.87	30	PASS
				RB1#99	23.57	23.34	30	PASS
				RB50#0	22.41	22.25	30	PASS
				RB50#25	22.37	21.96	30	PASS
				RB50#50	22.44	22.39	30	PASS
				RB100#	22.51	22.34	30	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
	LTE/TM2	1.4	LCH	0				
				RB1#0	22.61	22.50	30	PASS
				RB1#3	22.02	21.87	30	PASS
				RB1#5	22.6	22.20	30	PASS
				RB3#0	22.36	22.25	30	PASS
				RB3#2	22.28	22.18	30	PASS
				RB3#3	22.29	22.01	30	PASS
				RB6#0	21.25	21.01	30	PASS
			MCH	RB1#0	22.47	22.31	30	PASS
				RB1#3	22.26	21.98	30	PASS
				RB1#5	22.47	22.16	30	PASS
				RB3#0	22.34	22.07	30	PASS
				RB3#2	22.12	22.00	30	PASS
				RB3#3	22.28	21.90	30	PASS
				RB6#0	21.32	21.02	30	PASS
			HCH	RB1#0	22.33	22.15	30	PASS
				RB1#3	22.11	22.06	30	PASS
				RB1#5	22.46	22.35	30	PASS
				RB3#0	22.36	22.32	30	PASS
				RB3#2	22.24	21.91	30	PASS
				RB3#3	22.37	22.16	30	PASS
				RB6#0	21.42	21.01	30	PASS
		3	LCH	RB1#0	22.48	22.10	30	PASS
				RB1#7	22.03	21.81	30	PASS
				RB1#14	22.43	22.03	30	PASS
				RB8#0	21.26	21.18	30	PASS
				RB8#4	21.24	21.14	30	PASS
				RB8#7	21.28	21.09	30	PASS
				RB15#0	21.28	21.26	30	PASS
			MCH	RB1#0	22.5	22.35	30	PASS
				RB1#7	21.76	21.34	30	PASS
				RB1#14	22.61	22.33	30	PASS
				RB8#0	21.45	21.17	30	PASS
				RB8#4	21.3	21.08	30	PASS
				RB8#7	21.53	21.33	30	PASS
				RB15#0	21.33	20.99	30	PASS
			HCH	RB1#0	22.5	22.19	30	PASS
				RB1#7	21.58	21.30	30	PASS



Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#14	22.48	22.23	30	PASS
				RB8#0	21.33	20.97	30	PASS
				RB8#4	21.24	20.94	30	PASS
				RB8#7	21.44	21.07	30	PASS
				RB15#0	21.35	20.96	30	PASS
		5	LCH	RB1#0	22.27	22.03	30	PASS
				RB1#13	22.56	22.25	30	PASS
				RB1#24	22.58	22.23	30	PASS
				RB12#0	21.36	21.27	30	PASS
				RB12#6	21.25	20.96	30	PASS
				RB12#13	21.41	21.04	30	PASS
				RB25#0	21.41	21.00	30	PASS
			MCH	RB1#0	22.52	22.17	30	PASS
				RB1#13	22.37	22.19	30	PASS
				RB1#24	22.44	22.07	30	PASS
				RB12#0	21.35	21.10	30	PASS
				RB12#6	21.31	20.97	30	PASS
				RB12#13	21.36	21.30	30	PASS
				RB25#0	21.28	21.01	30	PASS
			HCH	RB1#0	22.93	22.58	30	PASS
				RB1#13	22.83	22.76	30	PASS
				RB1#24	22.84	22.44	30	PASS
				RB12#0	21.47	21.21	30	PASS
				RB12#6	21.39	21.28	30	PASS
				RB12#13	21.39	21.29	30	PASS
				RB25#0	21.39	21.07	30	PASS
		10	LCH	RB1#0	22.35	22.19	30	PASS
				RB1#25	22.1	22.08	30	PASS
				RB1#49	22.43	22.05	30	PASS
				RB25#0	21.35	21.24	30	PASS
				RB25#13	21.26	21.11	30	PASS
				RB25#25	21.42	21.09	30	PASS
				RB50#0	21.4	21.15	30	PASS
			MCH	RB1#0	22.5	22.34	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB1#25	22.24	22.15	30	PASS
				RB1#49	22.61	22.42	30	PASS
				RB25#0	21.49	21.29	30	PASS
				RB25#13	21.36	21.10	30	PASS
				RB25#25	21.48	21.27	30	PASS
				RB50#0	21.34	21.06	30	PASS
			HCH	RB1#0	22.77	22.53	30	PASS
				RB1#25	22.55	22.21	30	PASS
				RB1#49	22.72	22.46	30	PASS
				RB25#0	21.41	21.04	30	PASS
				RB25#13	21.4	21.00	30	PASS
				RB25#25	21.34	21.22	30	PASS
				RB50#0	21.34	20.95	30	PASS
		15	LCH	RB1#0	22.44	22.07	30	PASS
				RB1#38	22.42	22.18	30	PASS
				RB1#74	22.55	22.32	30	PASS
				RB38#0	21.32	20.96	30	PASS
				RB38#19	21.48	21.40	30	PASS
				RB38#39	21.37	21.05	30	PASS
				RB75#0	21.4	21.12	30	PASS
			MCH	RB1#0	22.61	22.22	30	PASS
				RB1#38	22.47	22.38	30	PASS
				RB1#74	22.51	22.31	30	PASS
				RB38#0	21.36	21.23	30	PASS
				RB38#19	21.38	21.15	30	PASS
				RB38#39	21.42	21.26	30	PASS
				RB75#0	21.34	21.05	30	PASS
			HCH	RB1#0	22.66	22.50	30	PASS
				RB1#38	22.79	22.64	30	PASS
				RB1#74	22.73	22.41	30	PASS
				RB38#0	21.52	21.15	30	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	EIRP[dBm]	Limit [dBm]	Verdict
				RB38#19	21.37	21.30	30	PASS
				RB38#39	21.4	21.34	30	PASS
				RB75#0	21.35	20.98	30	PASS
		20	LCH	RB1#0	22.95	22.92	30	PASS
				RB1#50	22.71	22.48	30	PASS
				RB1#99	23.04	22.94	30	PASS
				RB50#0	21.3	21.10	30	PASS
				RB50#25	21.36	20.97	30	PASS
				RB50#50	21.39	21.11	30	PASS
				RB100#0	21.42	21.20	30	PASS
			MCH	RB1#0	22.88	22.47	30	PASS
				RB1#50	22.2	21.94	30	PASS
				RB1#99	22.83	22.41	30	PASS
				RB50#0	21.47	21.29	30	PASS
				RB50#25	21.34	21.00	30	PASS
				RB50#50	21.37	21.17	30	PASS
				RB100#0	21.34	20.93	30	PASS
			HCH	RB1#0	22.78	22.53	30	PASS
				RB1#50	22.39	22.15	30	PASS
				RB1#99	22.83	22.68	30	PASS
				RB50#0	21.37	21.17	30	PASS
				RB50#25	21.49	21.19	30	PASS
				RB50#50	21.39	21.11	30	PASS
				RB100#0	21.38	21.08	30	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,



$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$

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

b, SGP = Signal Generator Level

Note2:

$SET Span = 1.5 * OBW$

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

$SET VBW \geq 3 * RBW$

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
BAND4	LTE/TM1	1.4	LCH	RB1#0	4.67	13	PASS
				RB1#3	4.68	13	PASS
				RB1#5	4.67	13	PASS
				RB3#0	4.92	13	PASS
				RB3#2	4.9	13	PASS
				RB3#3	4.86	13	PASS
				RB6#0	5.59	13	PASS
			MCH	RB1#0	4.08	13	PASS
				RB1#3	4.39	13	PASS
				RB1#5	4.2	13	PASS
				RB3#0	4.63	13	PASS
				RB3#2	4.72	13	PASS
				RB3#3	4.72	13	PASS
				RB6#0	5.37	13	PASS
			HCH	RB1#0	4.93	13	PASS
				RB1#3	5.09	13	PASS
				RB1#5	4.87	13	PASS
				RB3#0	5.2	13	PASS
				RB3#2	5.19	13	PASS
				RB3#3	5.19	13	PASS
				RB6#0	6	13	PASS
		3	LCH	RB1#0	4.34	13	PASS
				RB1#7	4.84	13	PASS
				RB1#14	4.5	13	PASS
				RB8#0	5.55	13	PASS
				RB8#4	5.57	13	PASS
				RB8#7	5.67	13	PASS
				RB15#0	5.86	13	PASS
			MCH	RB1#0	4.01	13	PASS
				RB1#7	4.16	13	PASS
				RB1#14	4.1	13	PASS
				RB8#0	5.34	13	PASS
				RB8#4	5.39	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#7	5.45	13	PASS
				RB15#0	5.69	13	PASS
			HCH	RB1#0	4.58	13	PASS
				RB1#7	5.01	13	PASS
				RB1#14	4.85	13	PASS
				RB8#0	5.73	13	PASS
				RB8#4	5.75	13	PASS
				RB8#7	5.92	13	PASS
				RB15#0	5.84	13	PASS
			LCH	RB1#0	4.41	13	PASS
				RB1#13	4.51	13	PASS
				RB1#24	4.71	13	PASS
				RB12#0	5.51	13	PASS
				RB12#6	5.56	13	PASS
				RB12#13	5.71	13	PASS
				RB25#0	6.06	13	PASS
		5	MCH	RB1#0	4.12	13	PASS
				RB1#13	4.02	13	PASS
				RB1#24	5.09	13	PASS
				RB12#0	5.3	13	PASS
				RB12#6	5.26	13	PASS
				RB12#13	5.47	13	PASS
				RB25#0	5.69	13	PASS
			HCH	RB1#0	4.63	13	PASS
				RB1#13	4.67	13	PASS
				RB1#24	4.95	13	PASS
				RB12#0	5.66	13	PASS
				RB12#6	5.7	13	PASS
				RB12#13	5.86	13	PASS
				RB25#0	6.1	13	PASS
		10	LCH	RB1#0	4.44	13	PASS
				RB1#25	5.03	13	PASS
				RB1#49	5.15	13	PASS
				RB25#0	5.63	13	PASS
				RB25#13	5.93	13	PASS
				RB25#25	6.15	13	PASS
				RB50#0	6.28	13	PASS
			MCH	RB1#0	3.96	13	PASS
				RB1#25	3.98	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.39	13	PASS
				RB25#0	5.33	13	PASS
				RB25#13	5.26	13	PASS
				RB25#25	5.44	13	PASS
				RB50#0	5.91	13	PASS
			HCH	RB1#0	4.41	13	PASS
				RB1#25	4.57	13	PASS
				RB1#49	4.82	13	PASS
				RB25#0	5.77	13	PASS
				RB25#13	5.78	13	PASS
				RB25#25	5.97	13	PASS
				RB50#0	6.01	13	PASS
		15	LCH	RB1#0	4.46	13	PASS
				RB1#38	5.05	13	PASS
				RB1#74	4.72	13	PASS
				RB38#0	5.91	13	PASS
				RB38#19	6.22	13	PASS
				RB38#39	6.31	13	PASS
				RB75#0	6.73	13	PASS
			MCH	RB1#0	4.18	13	PASS
				RB1#38	4.17	13	PASS
				RB1#74	5.07	13	PASS
				RB38#0	5.58	13	PASS
				RB38#19	5.52	13	PASS
				RB38#39	5.8	13	PASS
				RB75#0	5.96	13	PASS
			HCH	RB1#0	4.64	13	PASS
				RB1#38	4.39	13	PASS
				RB1#74	4.79	13	PASS
				RB38#0	5.81	13	PASS
				RB38#19	5.59	13	PASS
				RB38#39	5.86	13	PASS
				RB75#0	6.35	13	PASS
		20	LCH	RB1#0	4.35	13	PASS
				RB1#50	5.08	13	PASS
				RB1#99	4.03	13	PASS
				RB50#0	6.17	13	PASS
				RB50#25	6.33	13	PASS
				RB50#50	6.05	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	6.42	13	PASS
			MCH	RB1#0	4.84	13	PASS
				RB1#50	4.24	13	PASS
				RB1#99	4.8	13	PASS
				RB50#0	5.67	13	PASS
				RB50#25	5.46	13	PASS
				RB50#50	5.73	13	PASS
				RB100#0	6.25	13	PASS
			HCH	RB1#0	4.54	13	PASS
				RB1#50	4.51	13	PASS
				RB1#99	4.78	13	PASS
				RB50#0	5.96	13	PASS
				RB50#25	5.79	13	PASS
				RB50#50	5.92	13	PASS
				RB100#0	6.53	13	PASS
	LTE/TM2	1.4	LCH	RB1#0	5.25	13	PASS
				RB1#3	5.57	13	PASS
				RB1#5	5.3	13	PASS
				RB3#0	5.74	13	PASS
				RB3#2	5.81	13	PASS
				RB3#3	5.92	13	PASS
				RB6#0	6.62	13	PASS
			MCH	RB1#0	5.04	13	PASS
				RB1#3	5.06	13	PASS
				RB1#5	5.09	13	PASS
				RB3#0	5.54	13	PASS
				RB3#2	5.38	13	PASS
				RB3#3	5.72	13	PASS
				RB6#0	6.2	13	PASS
			HCH	RB1#0	6.07	13	PASS
				RB1#3	6.39	13	PASS
				RB1#5	6.08	13	PASS
				RB3#0	6.22	13	PASS
				RB3#2	6.22	13	PASS
				RB3#3	6.22	13	PASS
				RB6#0	7.15	13	PASS
		3	LCH	RB1#0	5.59	13	PASS
				RB1#7	6.08	13	PASS
				RB1#14	5.8	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB8#0	6.65	13	PASS
				RB8#4	6.67	13	PASS
				RB8#7	6.63	13	PASS
				RB15#0	6.67	13	PASS
			MCH	RB1#0	4.82	13	PASS
				RB1#7	5.36	13	PASS
				RB1#14	5.01	13	PASS
				RB8#0	6.22	13	PASS
				RB8#4	6.18	13	PASS
				RB8#7	6.23	13	PASS
				RB15#0	6.4	13	PASS
			HCH	RB1#0	5.44	13	PASS
				RB1#7	5.78	13	PASS
				RB1#14	5.65	13	PASS
				RB8#0	6.74	13	PASS
				RB8#4	6.86	13	PASS
				RB8#7	6.87	13	PASS
				RB15#0	6.8	13	PASS
		5	LCH	RB1#0	5.21	13	PASS
				RB1#13	5.59	13	PASS
				RB1#24	5.58	13	PASS
				RB12#0	6.55	13	PASS
				RB12#6	6.73	13	PASS
				RB12#13	6.79	13	PASS
				RB25#0	6.83	13	PASS
			MCH	RB1#0	4.97	13	PASS
				RB1#13	4.94	13	PASS
				RB1#24	4.84	13	PASS
				RB12#0	6.44	13	PASS
				RB12#6	6.38	13	PASS
				RB12#13	6.5	13	PASS
				RB25#0	6.62	13	PASS
			HCH	RB1#0	5.25	13	PASS
				RB1#13	5.33	13	PASS
				RB1#24	5.79	13	PASS
				RB12#0	6.6	13	PASS
				RB12#6	6.61	13	PASS
				RB12#13	6.77	13	PASS
				RB25#0	6.6	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		10	LCH	RB1#0	5.45	13	PASS
				RB1#25	5.92	13	PASS
				RB1#49	6.53	13	PASS
				RB25#0	6.73	13	PASS
				RB25#13	6.97	13	PASS
				RB25#25	7.16	13	PASS
				RB50#0	7.18	13	PASS
			MCH	RB1#0	5.12	13	PASS
				RB1#25	4.98	13	PASS
				RB1#49	5.25	13	PASS
				RB25#0	6.3	13	PASS
				RB25#13	6.27	13	PASS
				RB25#25	6.5	13	PASS
				RB50#0	6.99	13	PASS
			HCH	RB1#0	5.15	13	PASS
				RB1#25	5.39	13	PASS
				RB1#49	5.49	13	PASS
				RB25#0	6.72	13	PASS
				RB25#13	6.74	13	PASS
				RB25#25	6.86	13	PASS
				RB50#0	7.02	13	PASS
		15	LCH	RB1#0	5.6	13	PASS
				RB1#38	6.07	13	PASS
				RB1#74	5.67	13	PASS
				RB38#0	6.9	13	PASS
				RB38#19	7.15	13	PASS
				RB38#39	7.25	13	PASS
				RB75#0	7.43	13	PASS
			MCH	RB1#0	5.26	13	PASS
				RB1#38	4.98	13	PASS
				RB1#74	5.44	13	PASS
				RB38#0	6.39	13	PASS
				RB38#19	6.3	13	PASS
				RB38#39	6.6	13	PASS
				RB75#0	6.83	13	PASS
			HCH	RB1#0	5.42	13	PASS
				RB1#38	5.19	13	PASS
				RB1#74	5.55	13	PASS
				RB38#0	6.95	13	PASS



Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB38#19	6.8	13	PASS
				RB38#39	6.92	13	PASS
				RB75#0	7.19	13	PASS
		20	LCH	RB1#0	5.32	13	PASS
				RB1#50	5.75	13	PASS
				RB1#99	4.72	13	PASS
				RB50#0	7.15	13	PASS
				RB50#25	7.49	13	PASS
				RB50#50	7.14	13	PASS
				RB100#0	7.18	13	PASS
			MCH	RB1#0	5.71	13	PASS
				RB1#50	5.1	13	PASS
				RB1#99	5.36	13	PASS
				RB50#0	6.7	13	PASS
				RB50#25	6.52	13	PASS
				RB50#50	6.84	13	PASS
				RB100#0	6.94	13	PASS
			HCH	RB1#0	4.75	13	PASS
				RB1#50	5.25	13	PASS
				RB1#99	5.44	13	PASS
				RB50#0	6.96	13	PASS
				RB50#25	6.8	13	PASS
				RB50#50	6.84	13	PASS
				RB100#0	7.29	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

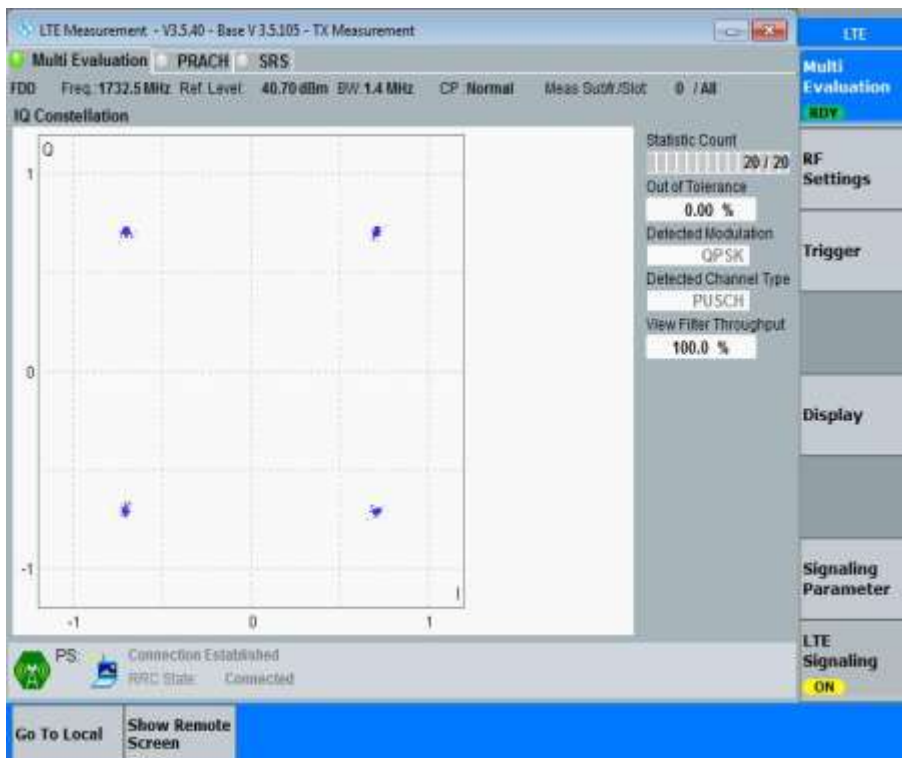
3.1.1 Test Band = BAND4

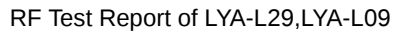
3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 1.4

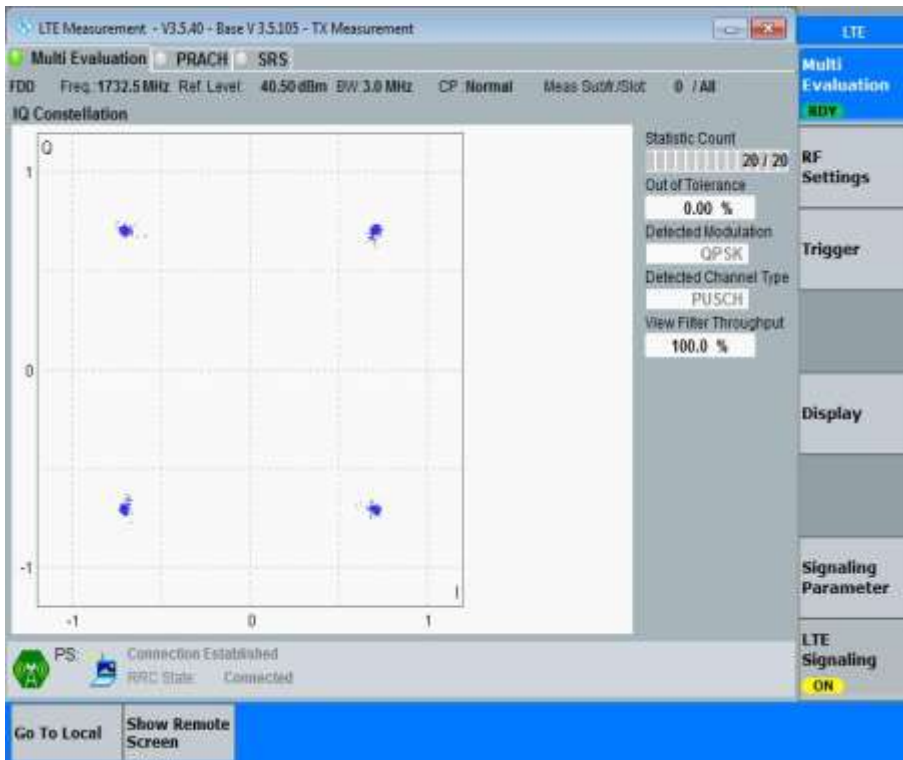
3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 Test RB = RB6#0





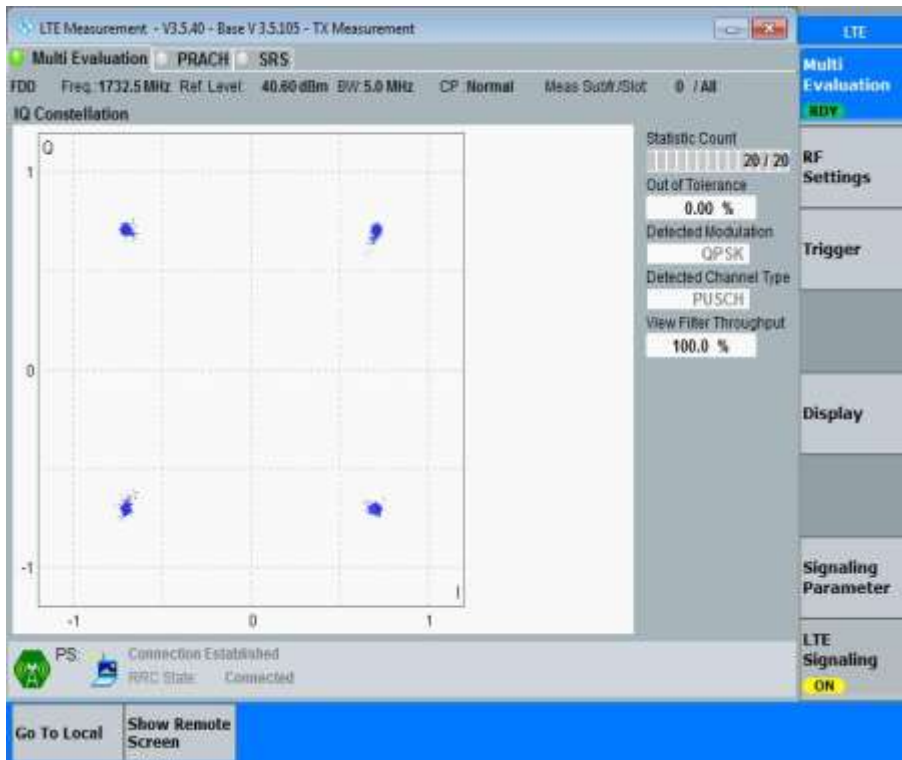
3.1.1.1.2.1.1 Test RB = RB15#0



3.1.1.1.3 Test Bandwidth = 5

3.1.1.1.3.1 Test Channel = MCH

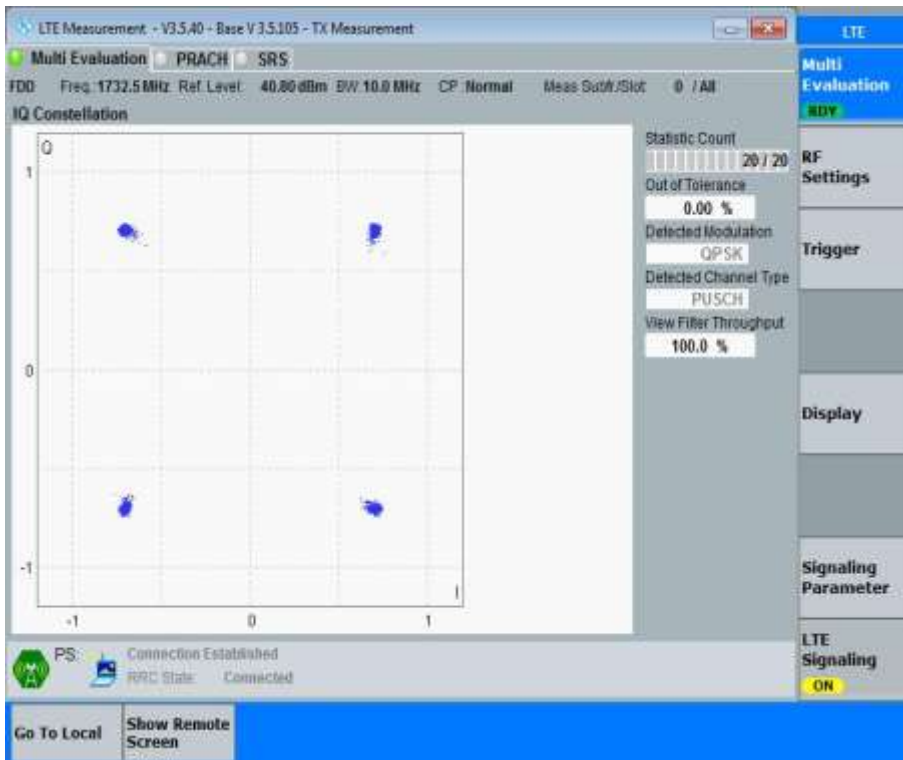
3.1.1.1.3.1.1 Test RB = RB25#0



3.1.1.1.4 Test Bandwidth = 10

3.1.1.1.4.1 Test Channel = MCH

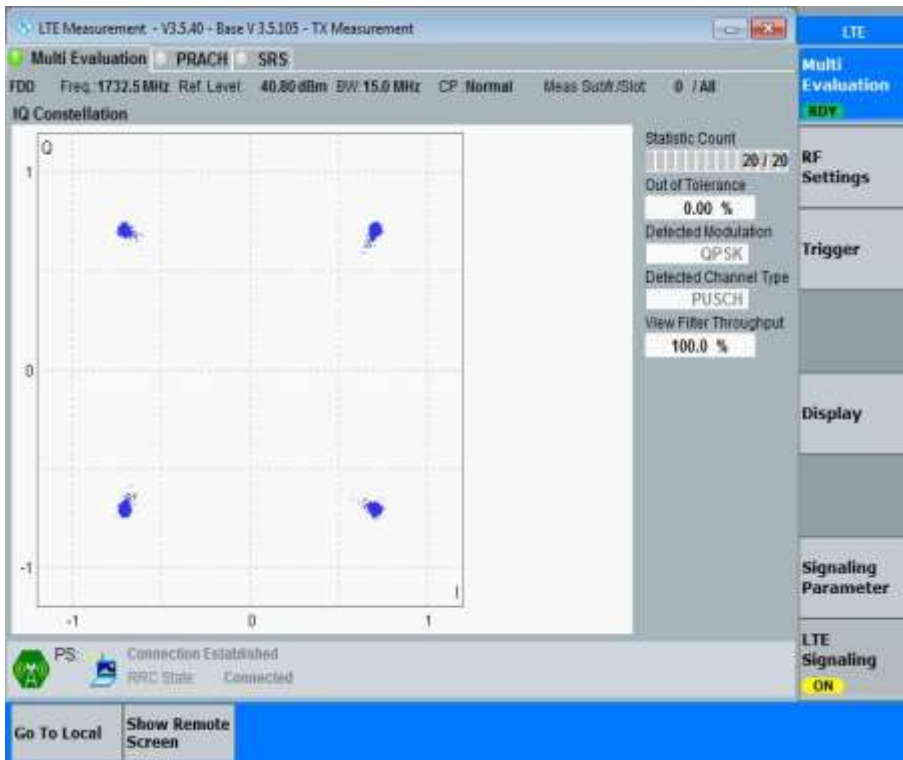
3.1.1.1.4.1.1 Test RB = RB50#0



3.1.1.1.5 Test Bandwidth = 15

3.1.1.1.5.1 Test Channel = MCH

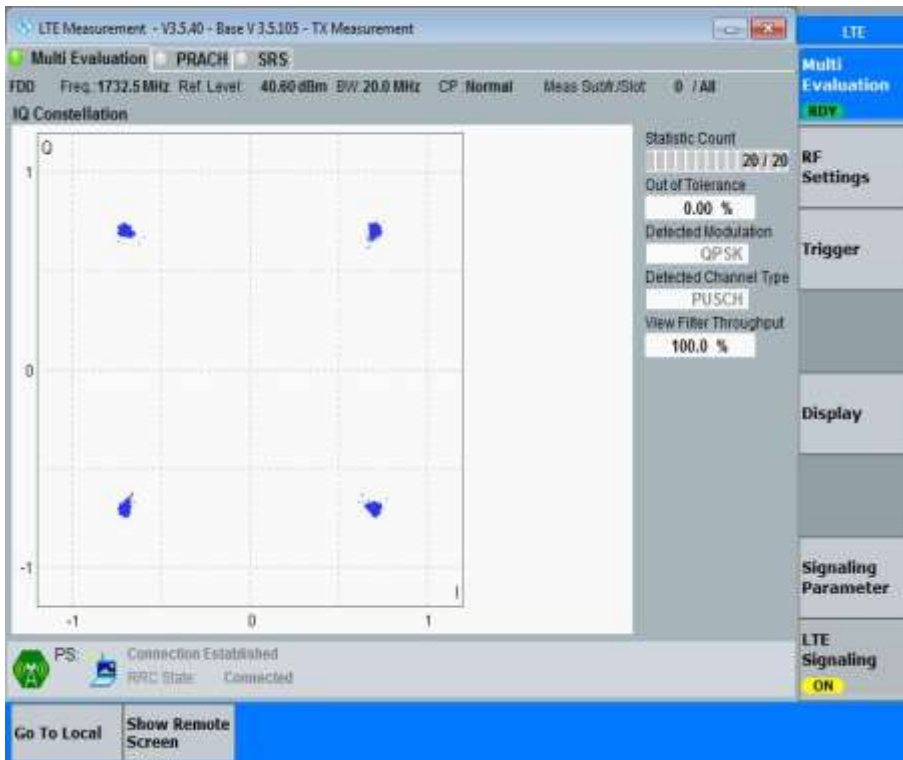
3.1.1.1.5.1.1 Test RB = RB75#0



3.1.1.1.6 Test Bandwidth = 20

3.1.1.1.6.1 Test Channel = MCH

3.1.1.1.6.1.1 Test RB = RB100#0

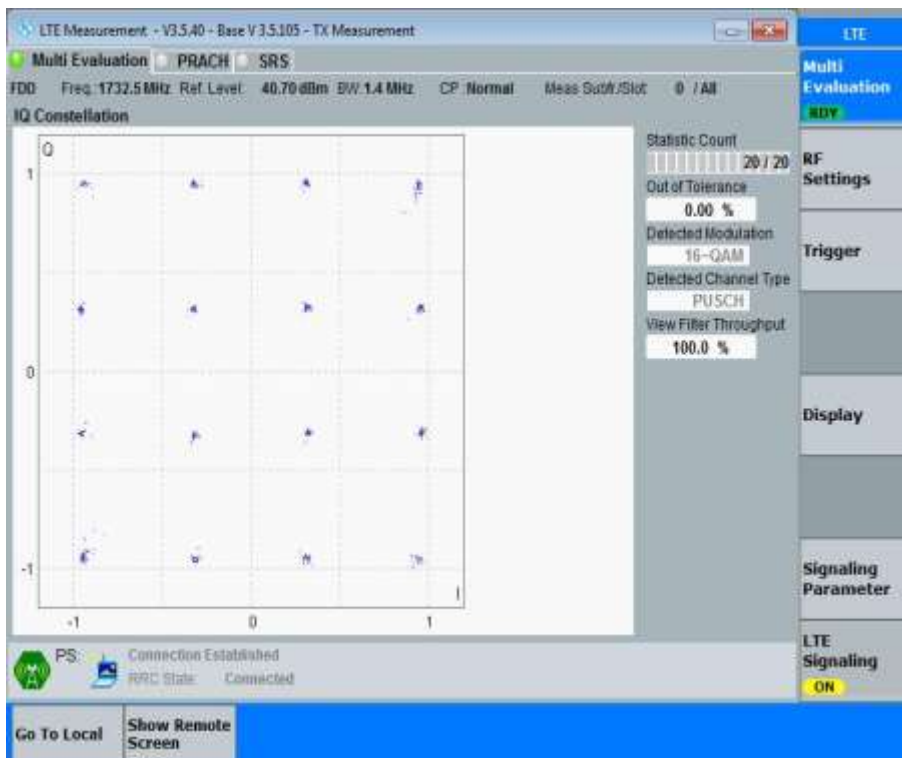


3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 1.4

3.1.1.2.1.1 Test Channel = MCH

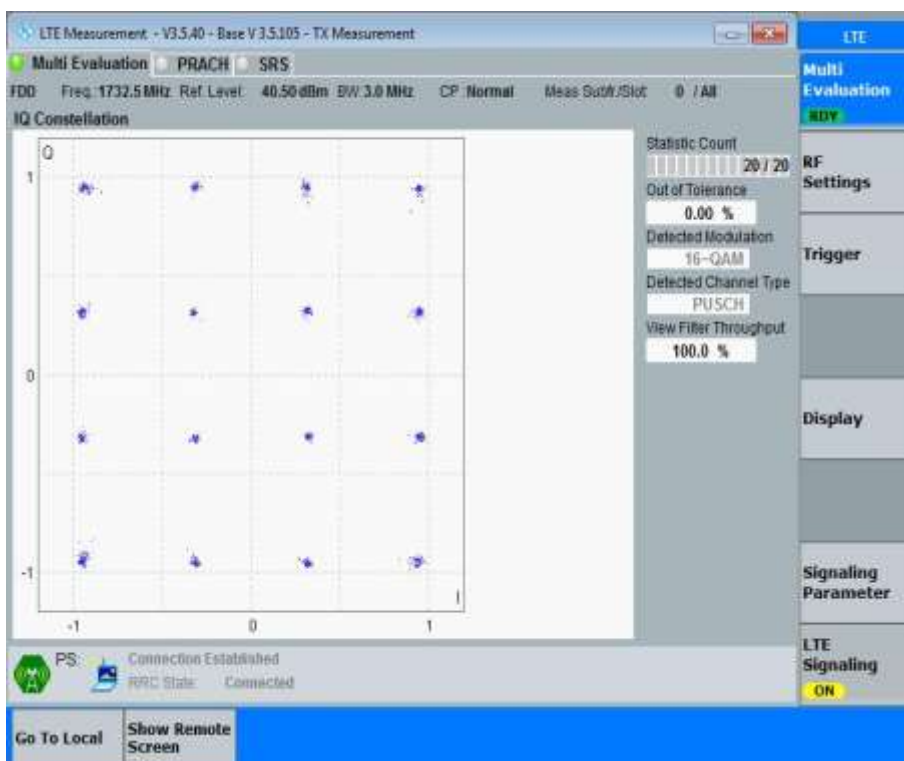
3.1.1.2.1.1.1 Test RB = RB6#0



3.1.1.2.2 Test Bandwidth = 3

3.1.1.2.2.1 Test Channel = MCH

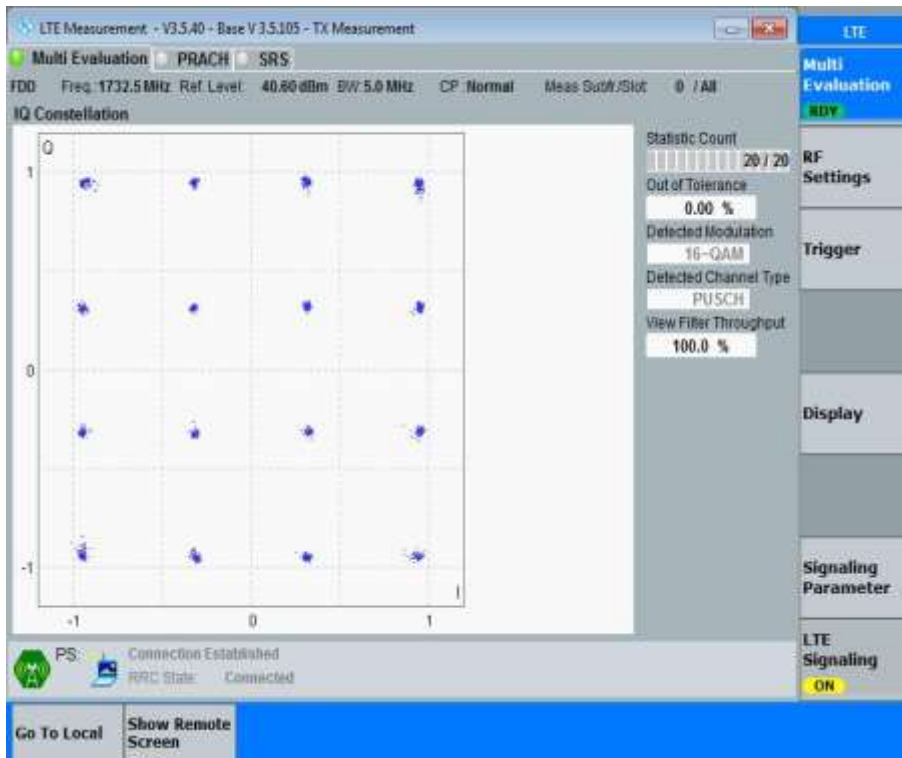
3.1.1.2.2.1.1 Test RB = RB15#0



3.1.1.2.3 Test Bandwidth = 5

3.1.1.2.3.1 Test Channel = MCH

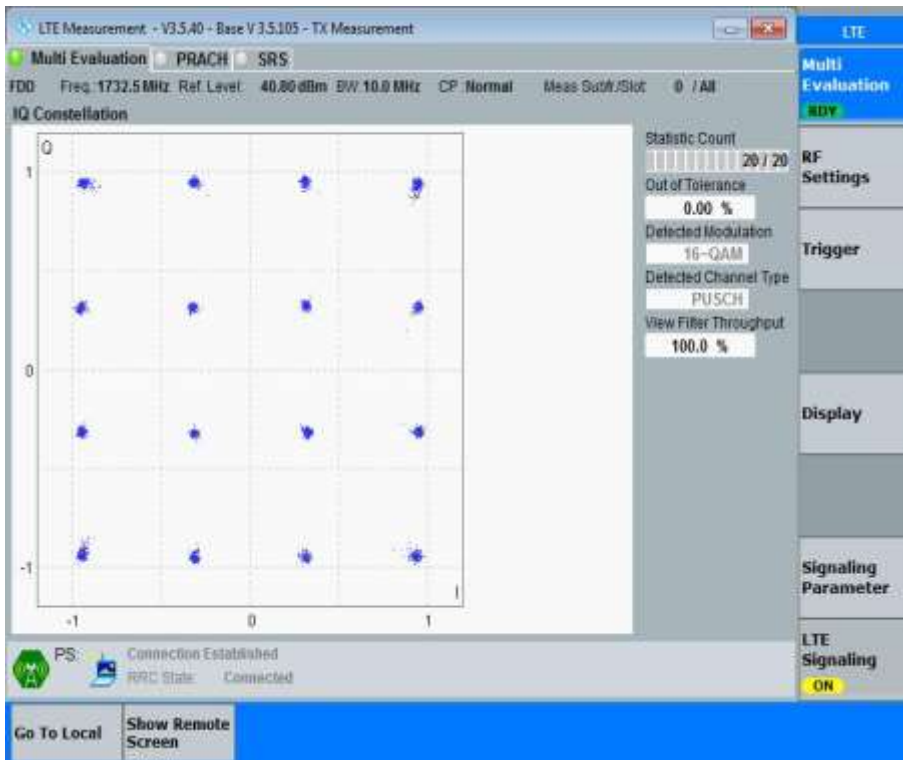
3.1.1.2.3.1.1 Test RB = RB25#0



3.1.1.2.4 Test Bandwidth = 10

3.1.1.2.4.1 Test Channel = MCH

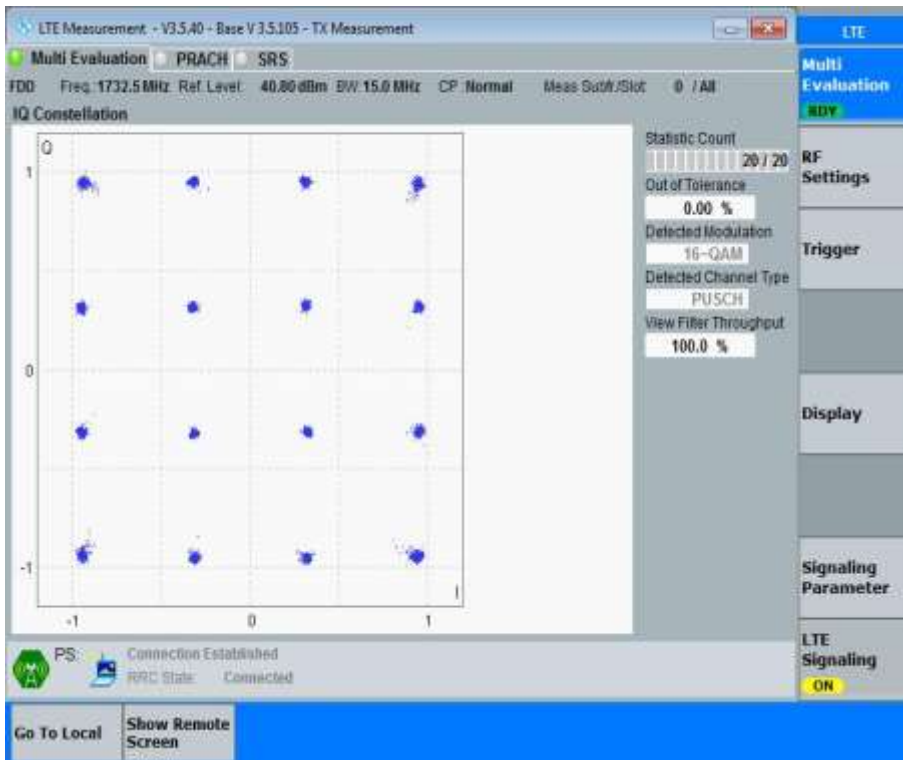
3.1.1.2.4.1.1 Test RB = RB50#0



3.1.1.2.5 Test Bandwidth = 15

3.1.1.2.5.1 Test Channel = MCH

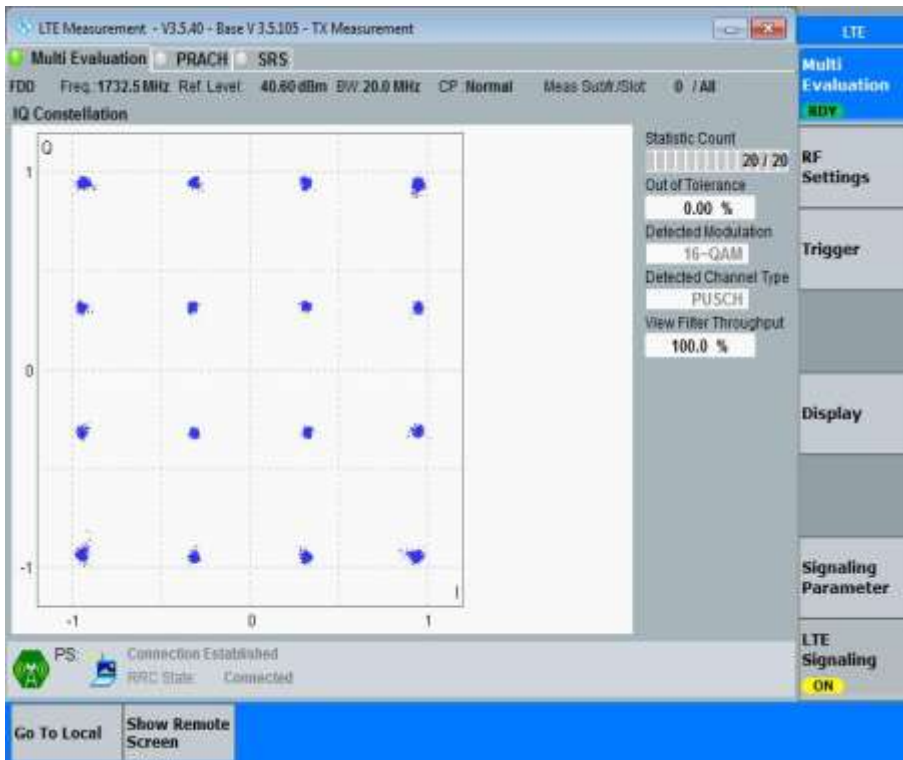
3.1.1.2.5.1.1 Test RB = RB75#0



3.1.1.2.6 Test Bandwidth = 20

3.1.1.2.6.1 Test Channel = MCH

3.1.1.2.6.1.1 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
BAND4	LTE/TM1	1.4	LCH	RB6#0	1.09	1.24	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.09	1.23	Pass
		3	LCH	RB15#0	2.70	2.99	Pass
			MCH	RB15#0	2.71	2.99	Pass
			HCH	RB15#0	2.70	2.99	Pass
		5	LCH	RB25#0	4.53	4.99	Pass
			MCH	RB25#0	4.51	5.00	Pass
			HCH	RB25#0	4.52	4.97	Pass
		10	LCH	RB50#0	8.99	9.85	Pass
			MCH	RB50#0	9.01	9.89	Pass
			HCH	RB50#0	9.01	9.90	Pass
		15	LCH	RB75#0	13.55	14.97	Pass
			MCH	RB75#0	13.48	14.82	Pass
			HCH	RB75#0	13.54	14.84	Pass
		20	LCH	RB100#0	18.02	19.72	Pass
			MCH	RB100#0	17.92	19.61	Pass
			HCH	RB100#0	18.06	19.69	Pass
	LTE/TM2	1.4	LCH	RB6#0	1.09	1.23	Pass
			MCH	RB6#0	1.10	1.24	Pass
			HCH	RB6#0	1.09	1.24	Pass
		3	LCH	RB15#0	2.72	2.99	Pass
			MCH	RB15#0	2.71	2.98	Pass
			HCH	RB15#0	2.72	2.99	Pass
		5	LCH	RB25#0	4.51	4.97	Pass
			MCH	RB25#0	4.53	4.99	Pass
			HCH	RB25#0	4.52	4.98	Pass
		10	LCH	RB50#0	9.01	9.85	Pass
			MCH	RB50#0	9.00	9.88	Pass
			HCH	RB50#0	9.01	9.88	Pass



Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		15	LCH	RB75#0	13.53	14.84	Pass
			MCH	RB75#0	13.46	14.76	Pass
			HCH	RB75#0	13.53	14.96	Pass
		20	LCH	RB100#0	17.95	19.60	Pass
			MCH	RB100#0	17.92	19.61	Pass
			HCH	RB100#0	18.06	19.74	Pass

Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = BAND4

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



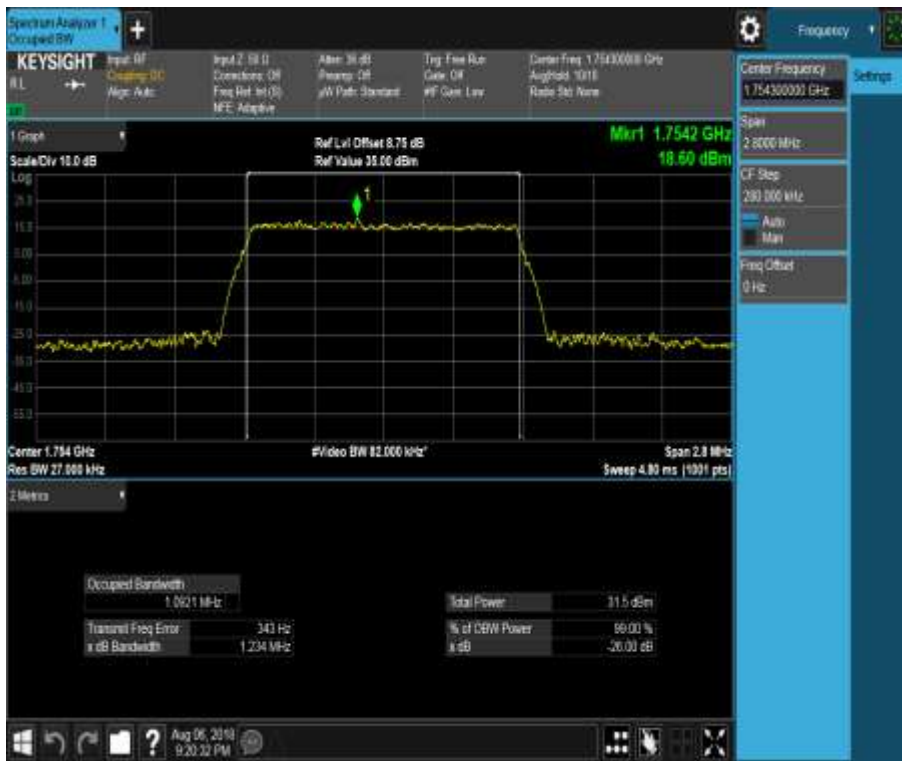
4.1.1.1.1.2 Test Channel = MCH

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



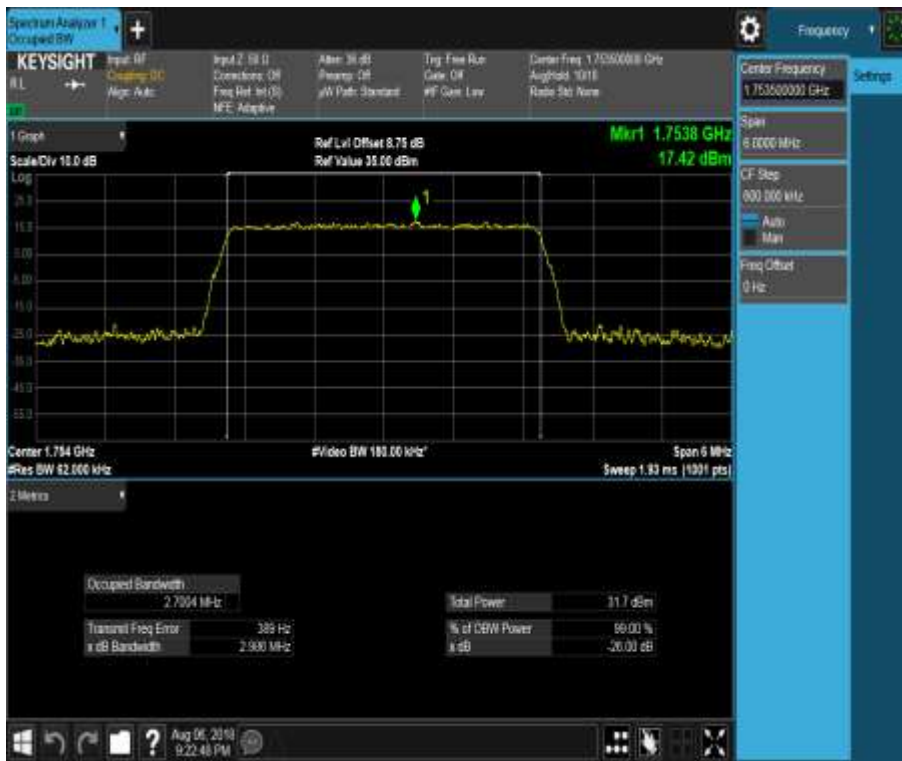
4.1.1.1.2.2 Test Channel = MCH

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

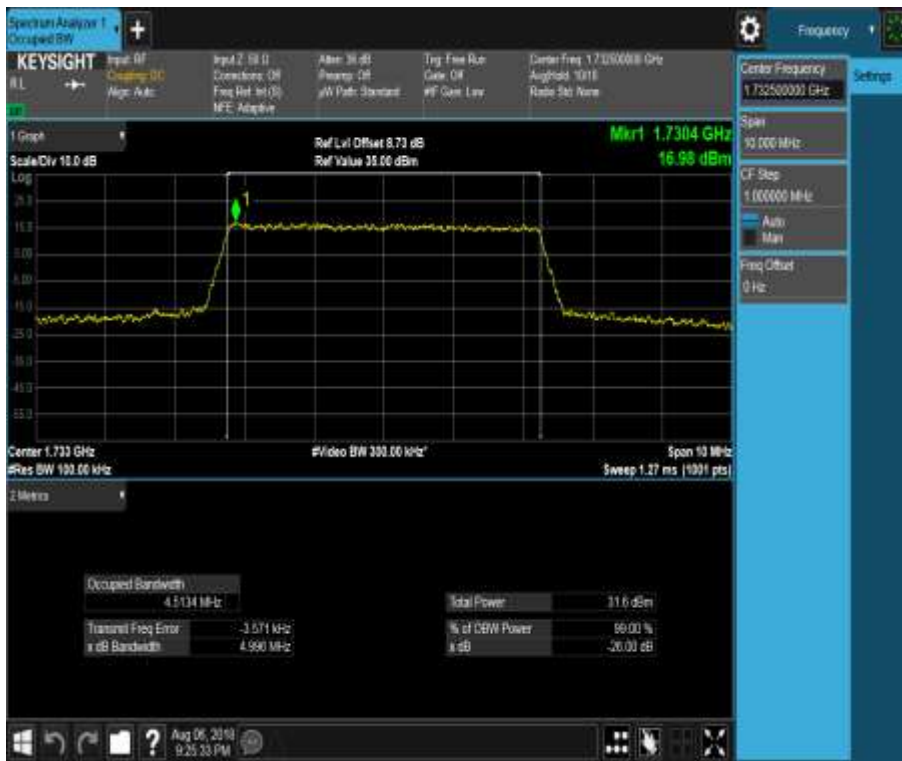
4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB25#0



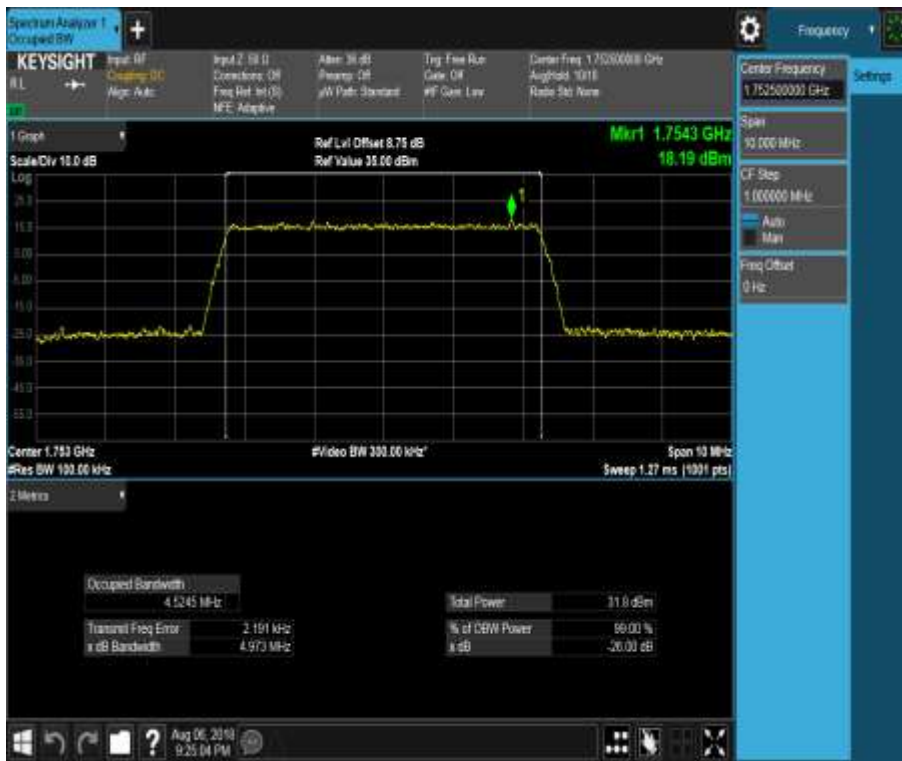
4.1.1.1.3.2 Test Channel = MCH

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



4.1.1.1.5 Test Bandwidth = 15

4.1.1.1.5.1 Test Channel = LCH

4.1.1.1.5.1.1 Test RB = RB75#0



4.1.1.1.5.2 Test Channel = MCH

4.1.1.1.5.2.1 Test RB = RB75#0



4.1.1.1.5.3 Test Channel = HCH

4.1.1.1.5.3.1 Test RB = RB75#0



4.1.1.1.6 Test Bandwidth = 20

4.1.1.1.6.1 Test Channel = LCH

4.1.1.1.6.1.1 Test RB = RB100#0



4.1.1.1.6.2 Test Channel = MCH

4.1.1.1.6.2.1 Test RB = RB100#0



4.1.1.1.6.3 Test Channel = HCH

4.1.1.1.6.3.1 Test RB = RB100#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

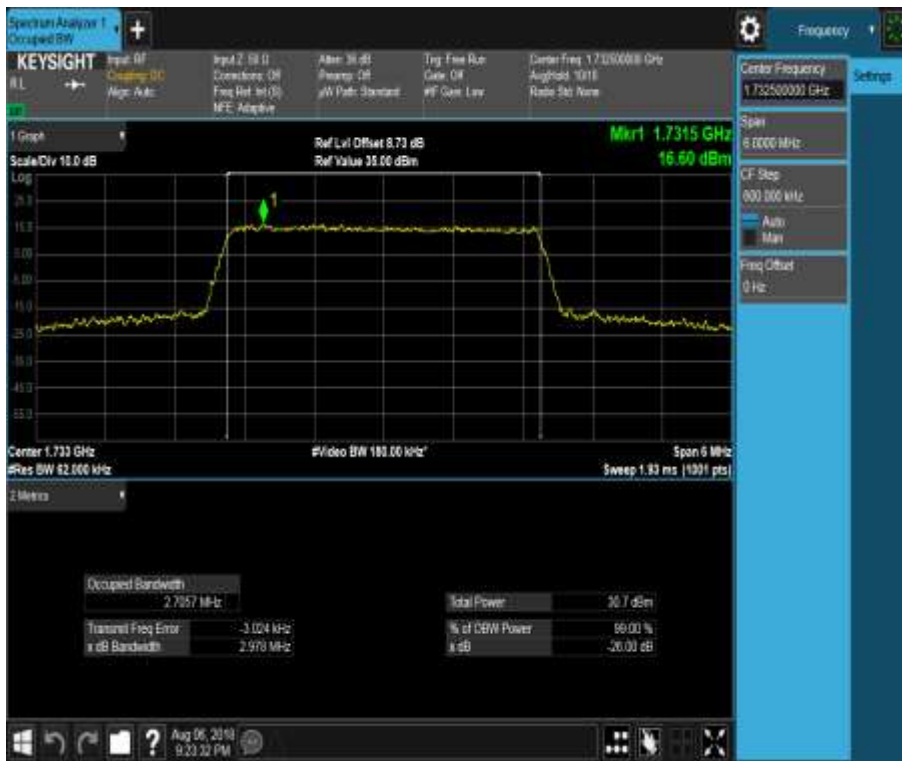
4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB15#0



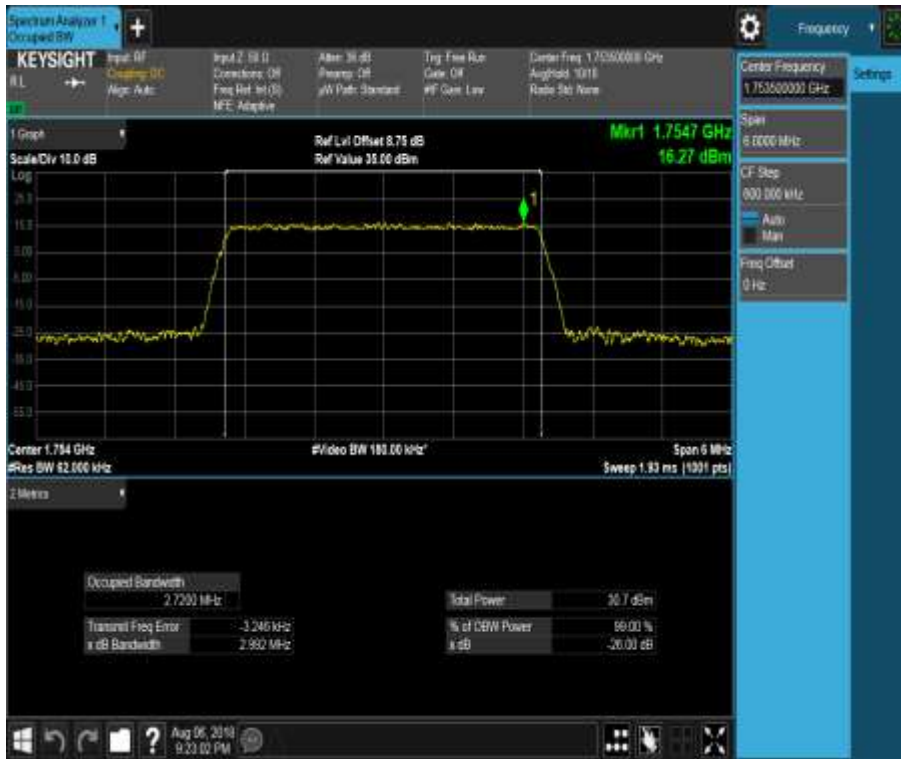
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 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



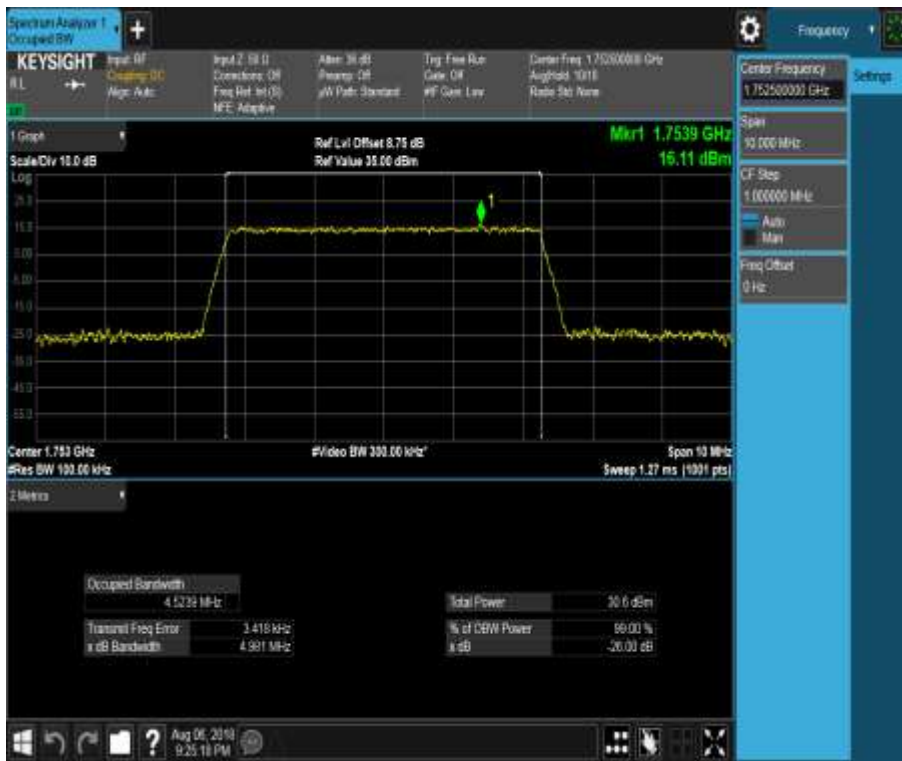
4.1.1.2.3.2 Test Channel = MCH

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



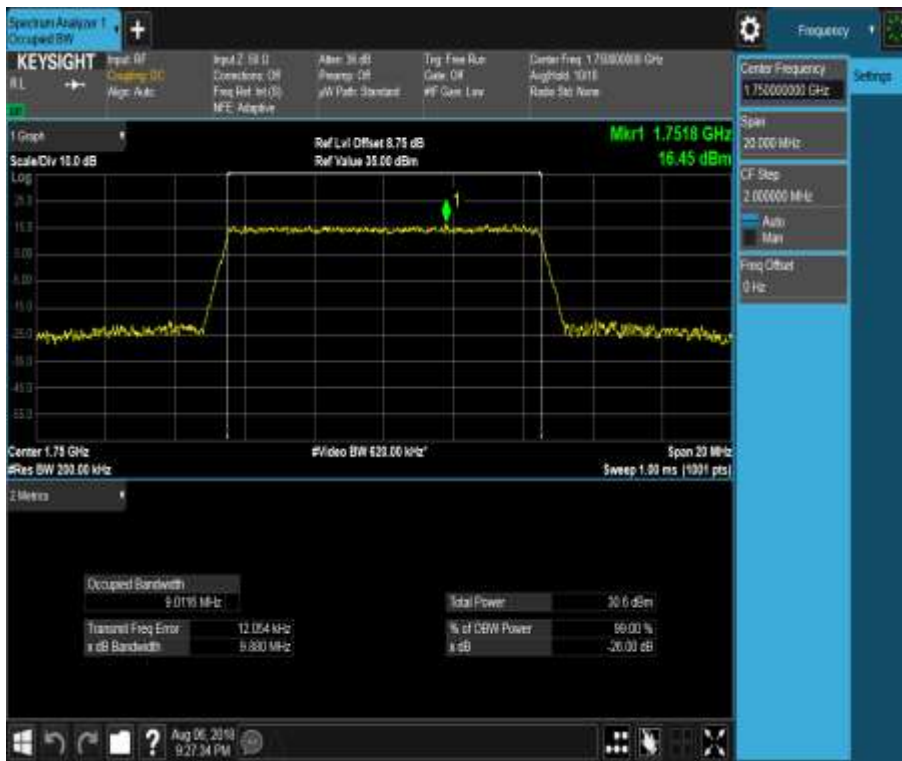
4.1.1.2.4.2 Test Channel = MCH

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



4.1.1.2.5 Test Bandwidth = 15

4.1.1.2.5.1 Test Channel = LCH

4.1.1.2.5.1.1 Test RB = RB75#0



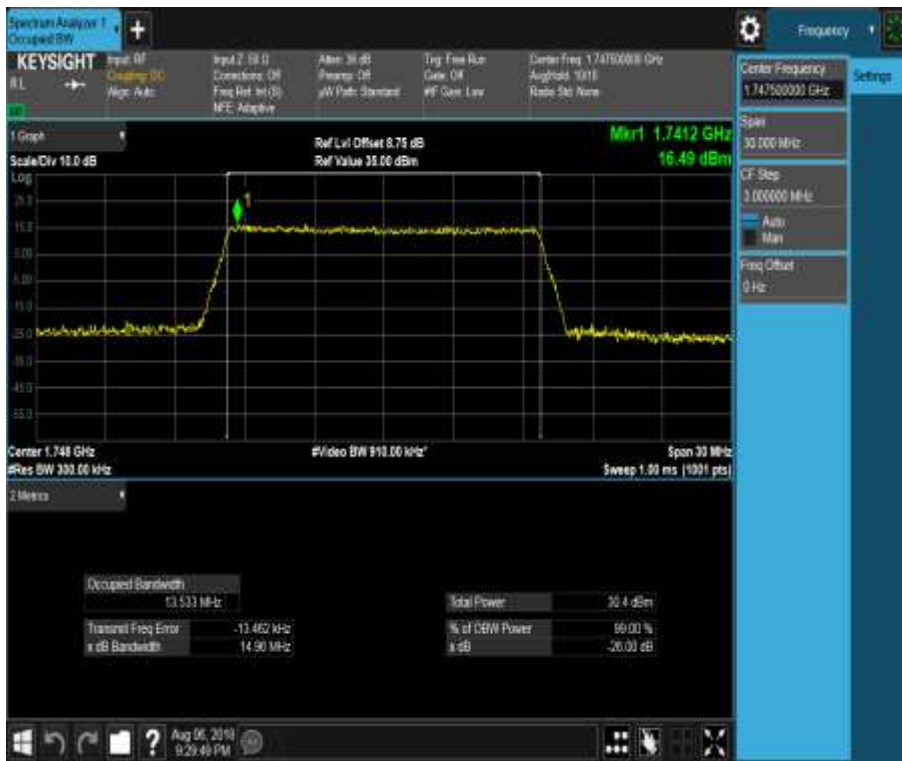
4.1.1.2.5.2 Test Channel = MCH

4.1.1.2.5.2.1 Test RB = RB75#0



4.1.1.2.5.3 Test Channel = HCH

4.1.1.2.5.3.1 Test RB = RB75#0



4.1.1.2.6 Test Bandwidth = 20

4.1.1.2.6.1 Test Channel = LCH

4.1.1.2.6.1.1 Test RB = RB100#0



4.1.1.2.6.2 Test Channel = MCH

4.1.1.2.6.2.1 Test RB = RB100#0



4.1.1.2.6.3 Test Channel = HCH

4.1.1.2.6.3.1 Test RB = RB100#0



5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

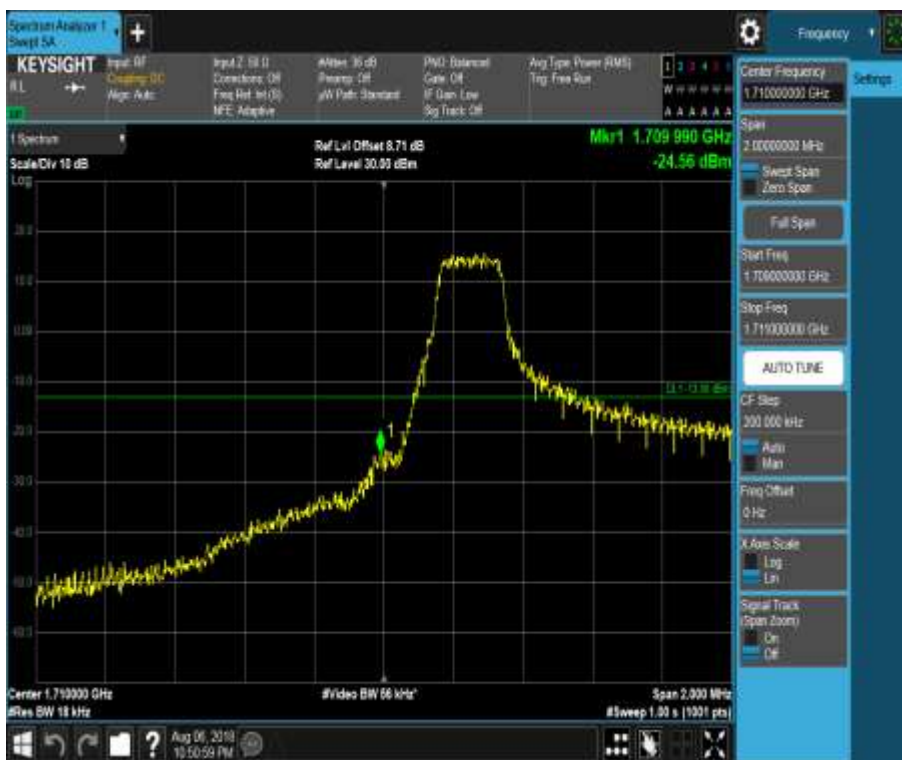
5.1.1 Test Band = BAND4

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

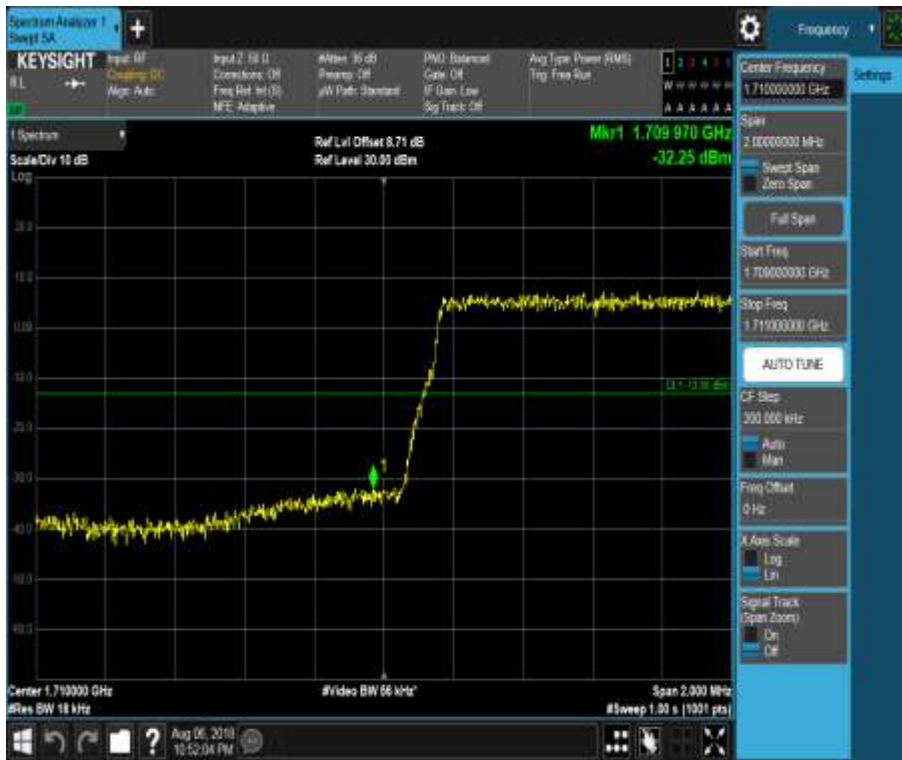


5.1.1.1.1.3 Test RB = RB3#2





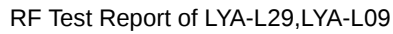
5.1.1.1.1.4 Test RB = RB6#0



5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0





Keysight Spectrum Analyzer 1
Sweep 5A

Input: 01
Coupling: DC
High: Auto

Attenu: 30 dB
Preamp: Off
dB Path: Standard
MCE: Adaptive

IMN: Balanced
Gate: Off
IF Dam: Low
Sig Track: Off

Avg Type: Power (RMS)
Trig: Free Run

Center Frequency: 1.75500000 GHz
Span: 2.00000000 MHz
Sweep Span: Zero Span
Full Span

Start Freq: 1.754000000 GHz
Stop Freq: 1.756000000 GHz
AUTO TUNE

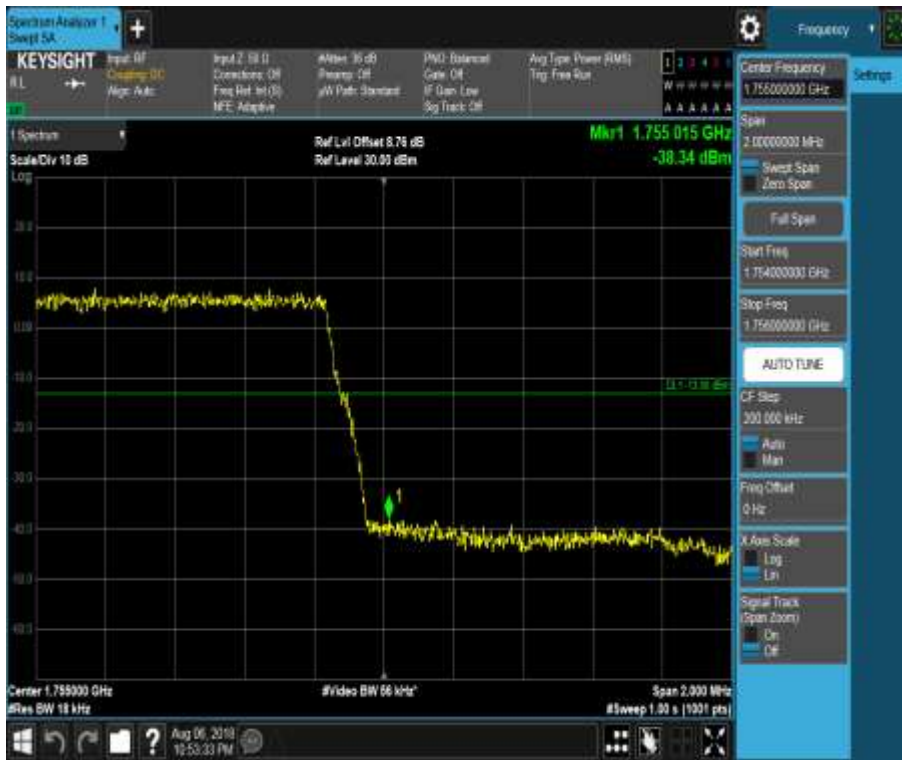
CF Stop: 300.000 kHz
Auto Man
Freq Offset: 0 Hz
X-Axis Scale: Log Lin
Signal Track (Span Zoom): On Off

Center 1.755000 GHz
#Video BW 66 kHz
Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

5.1.1.1.2.3 Test RB = RB3#2



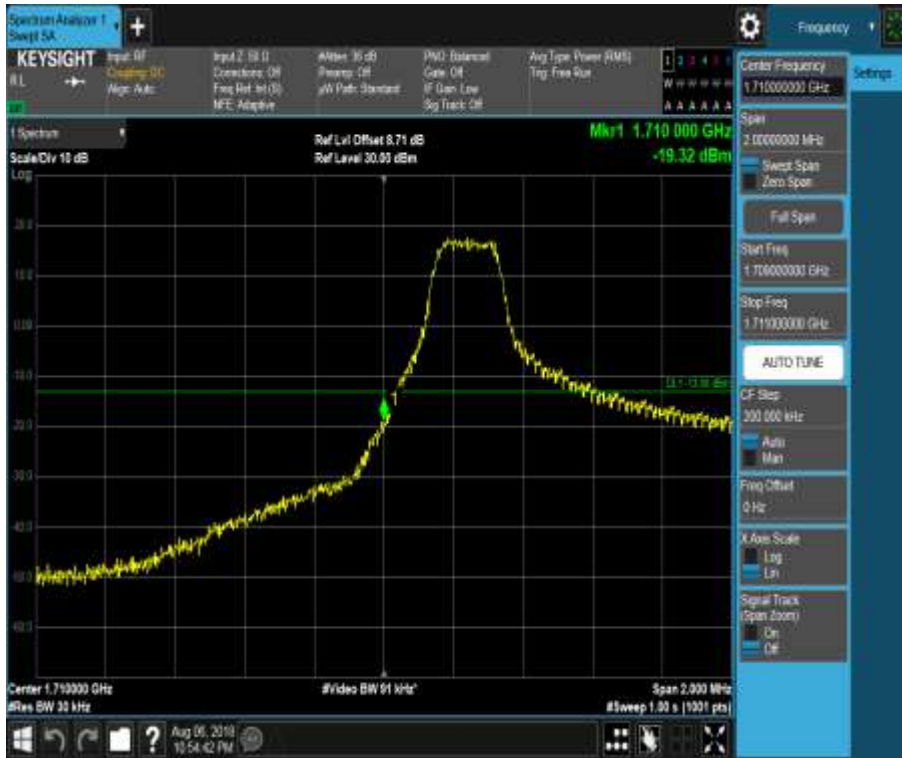
5.1.1.1.2.4 Test RB = RB6#0



5.1.1.1.2 Test Bandwidth = 3

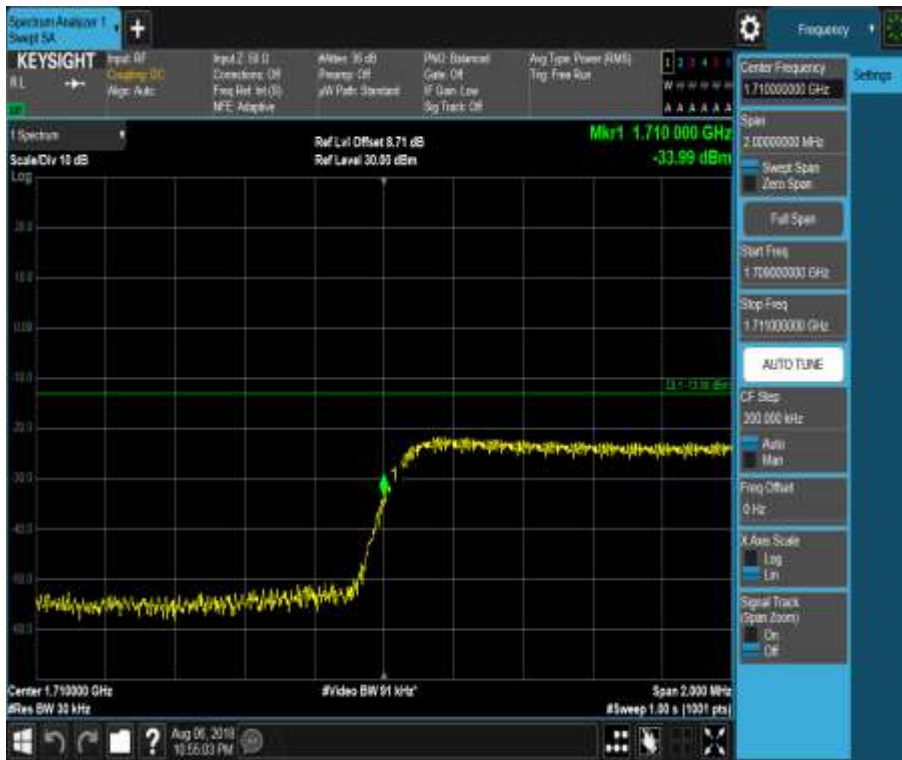
5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0





5.1.1.1.2.1.2 Test RB = RB1#14



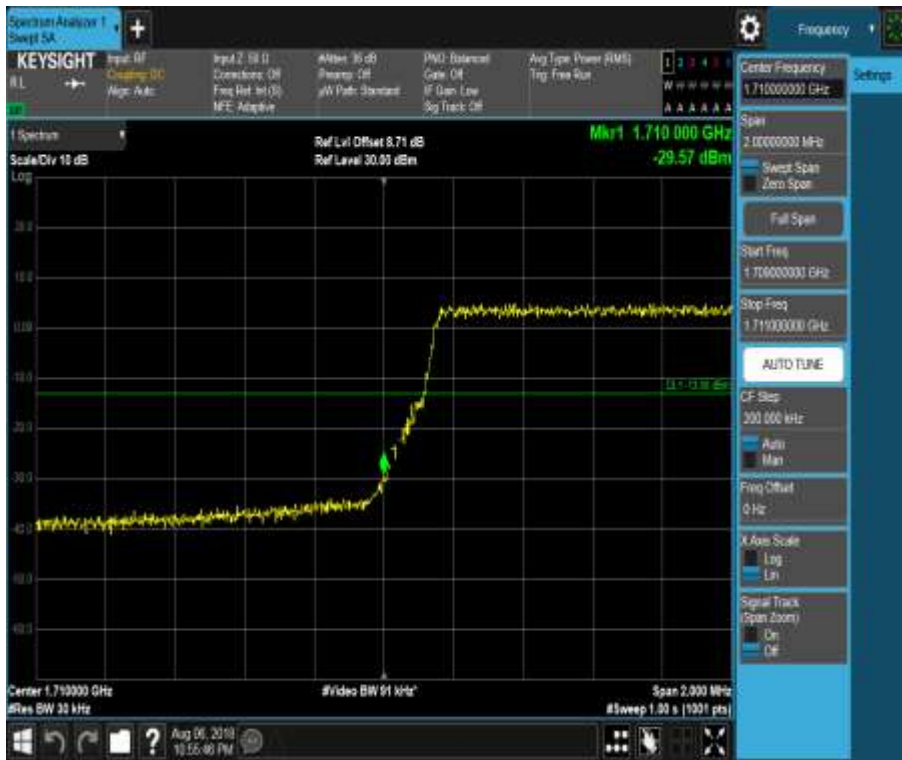


5.1.1.1.2.1.3 Test RB = RB8#4



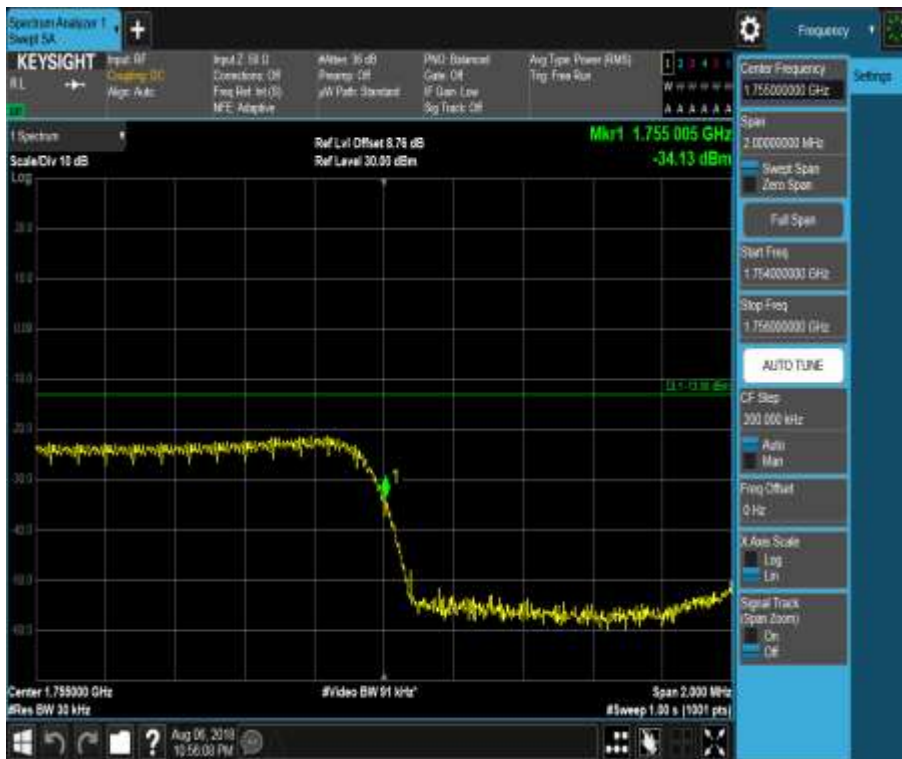


5.1.1.1.2.1.4 Test RB = RB15#0

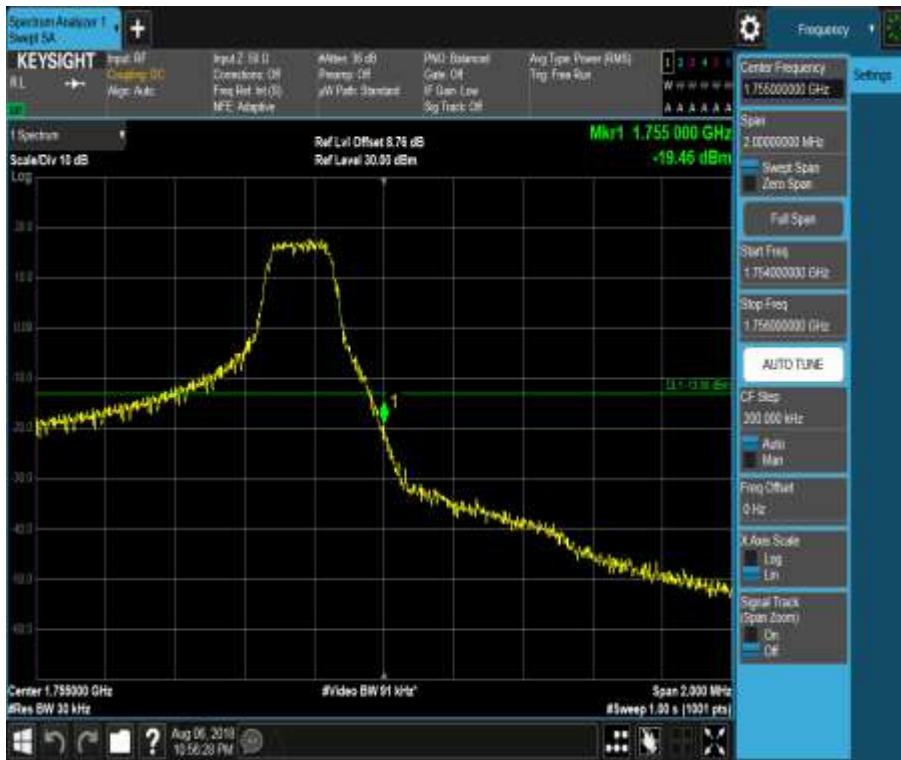


5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0



5.1.1.1.2.2.2 Test RB = RB1#14

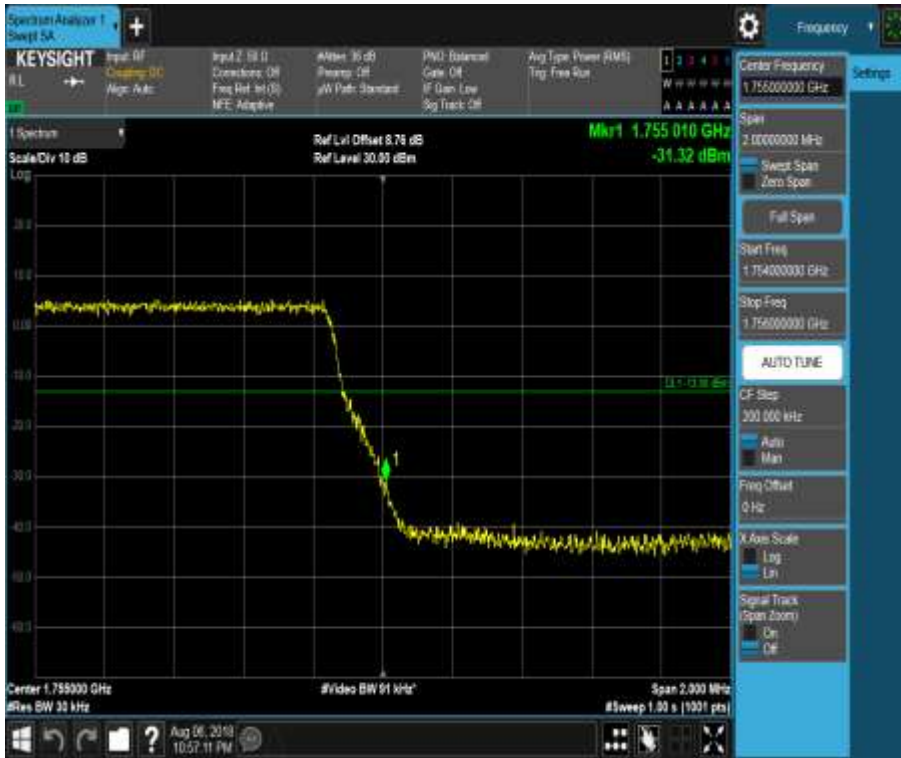




5.1.1.1.2.3 Test RB = RB8#4



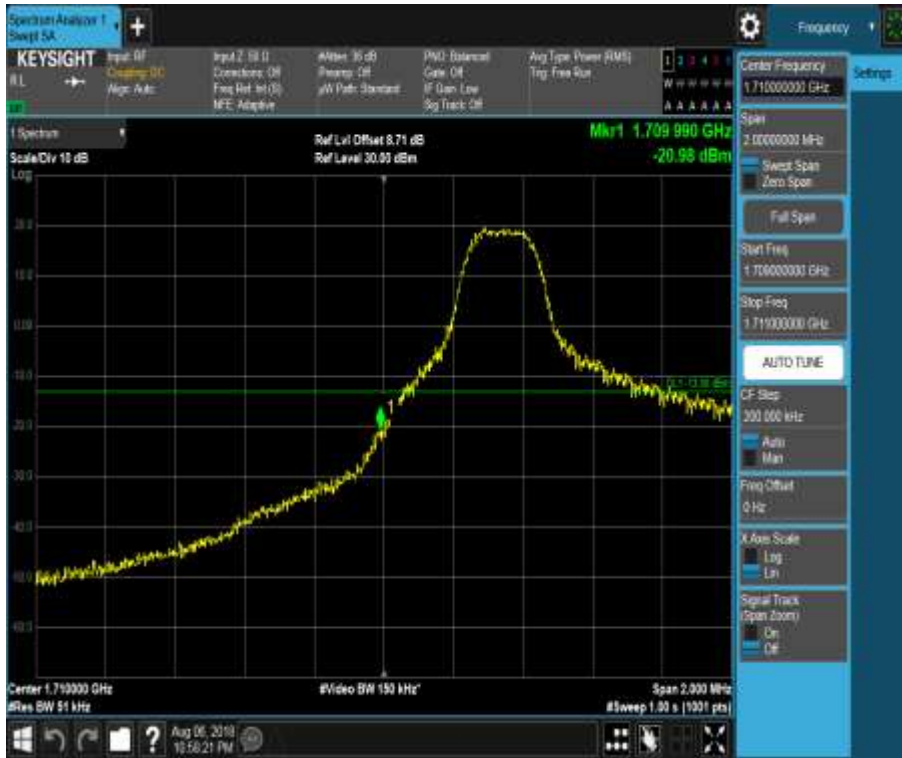
5.1.1.1.2.2.4 Test RB = RB15#0



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

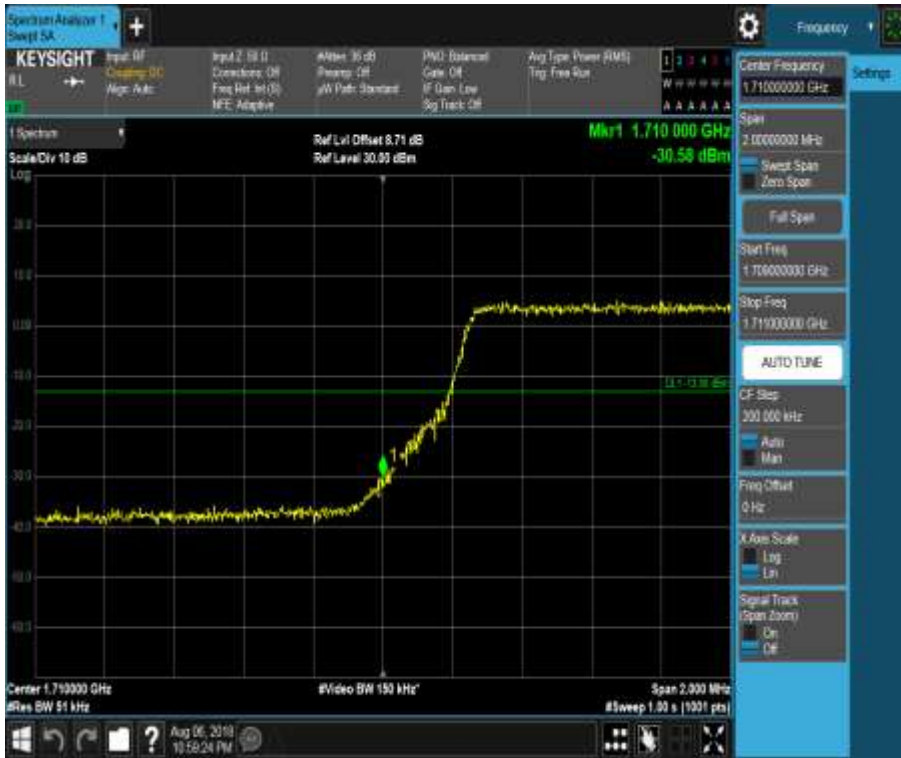




5.1.1.1.3.1.3 Test RB = RB12#6

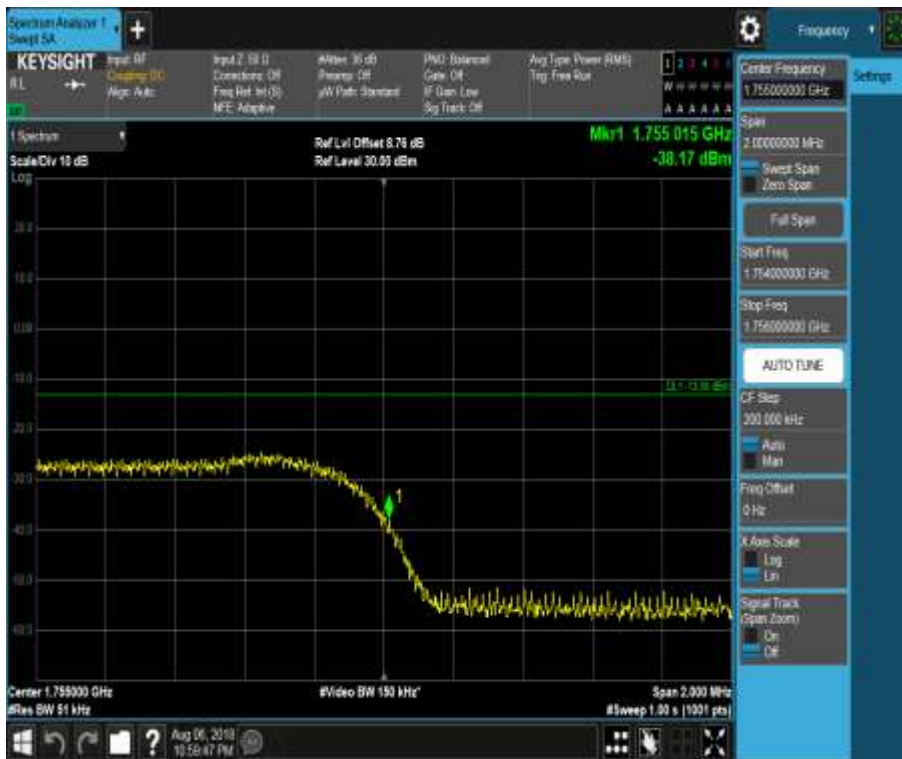


5.1.1.1.3.1.4 Test RB = RB25#0



5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0

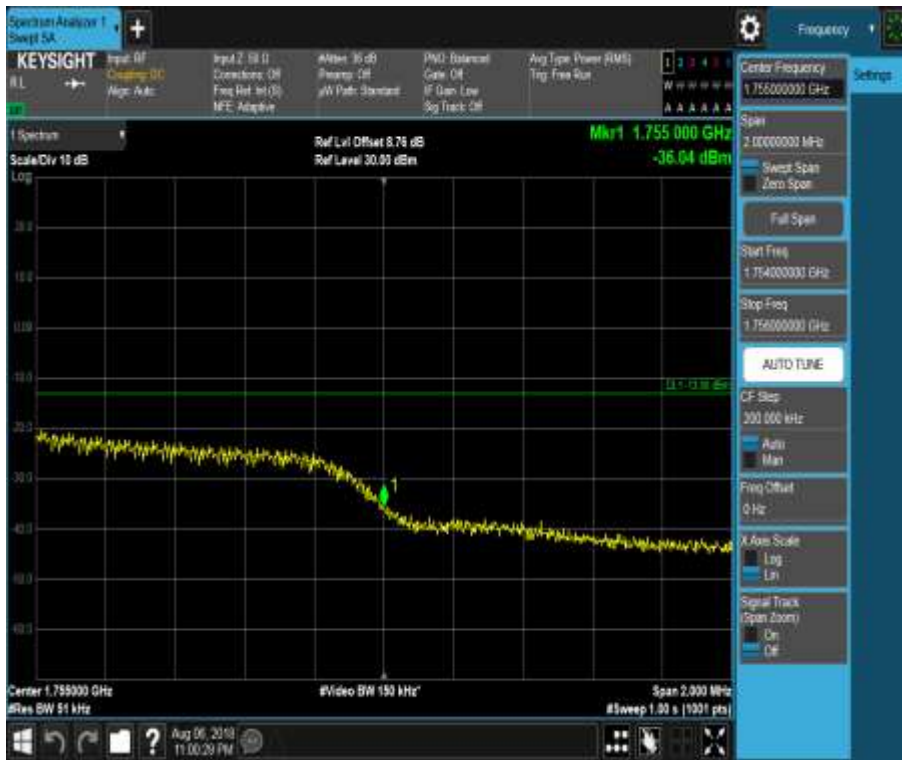


5.1.1.1.3.2.2 Test RB = RB1#24

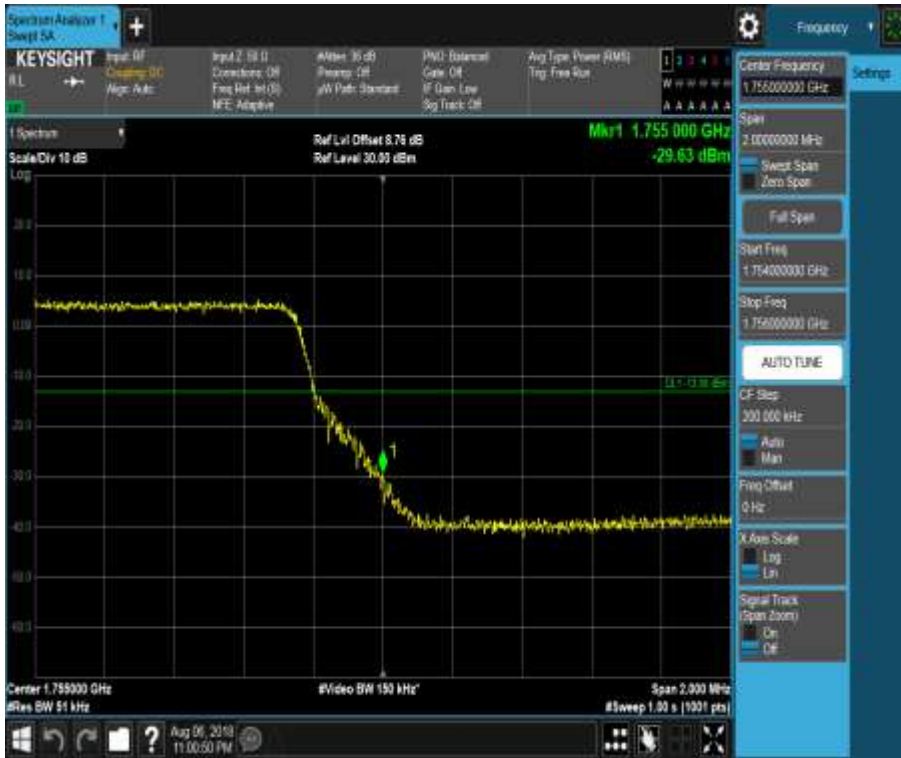




5.1.1.1.3.2.3 Test RB = RB12#6



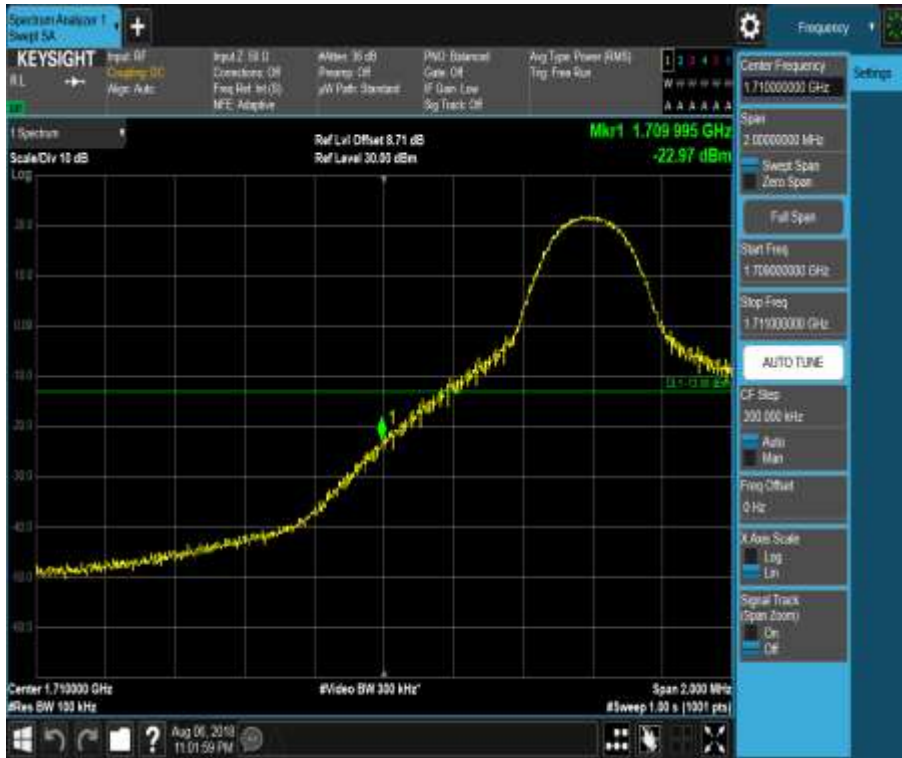
5.1.1.1.3.2.4 Test RB = RB25#0



5.1.1.1.4 Test Bandwidth = 10

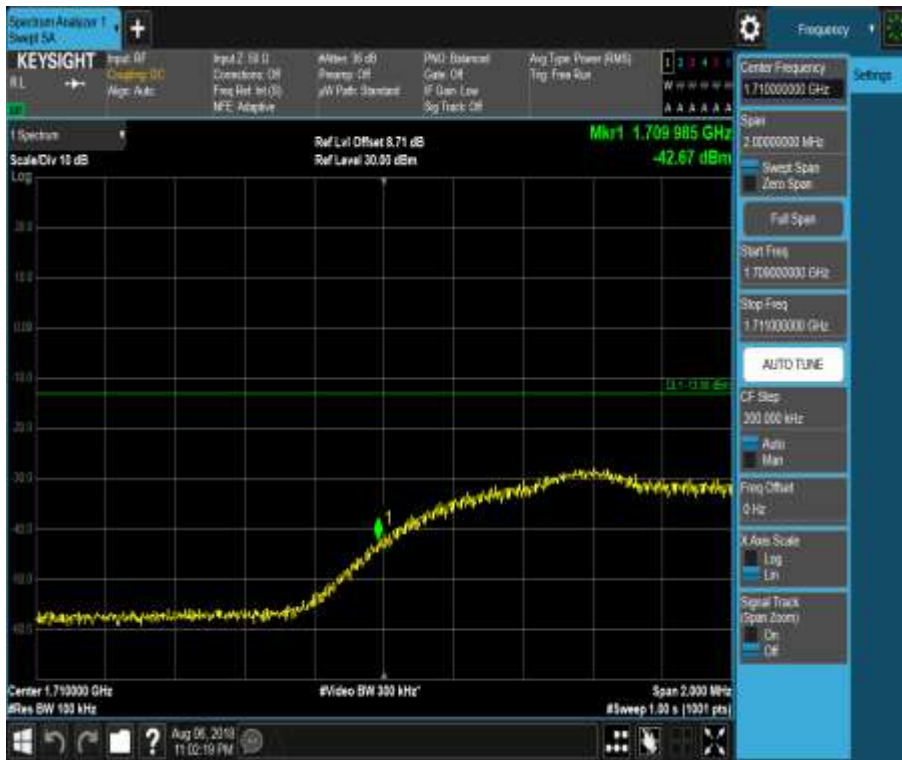
5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0



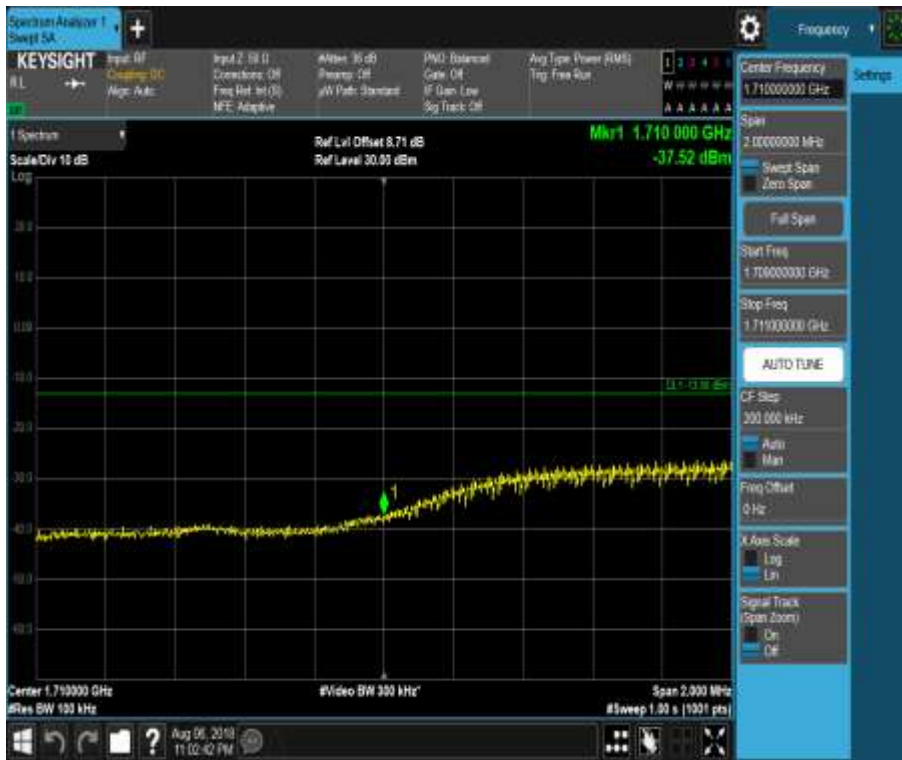


5.1.1.1.4.1.2 Test RB = RB1#49

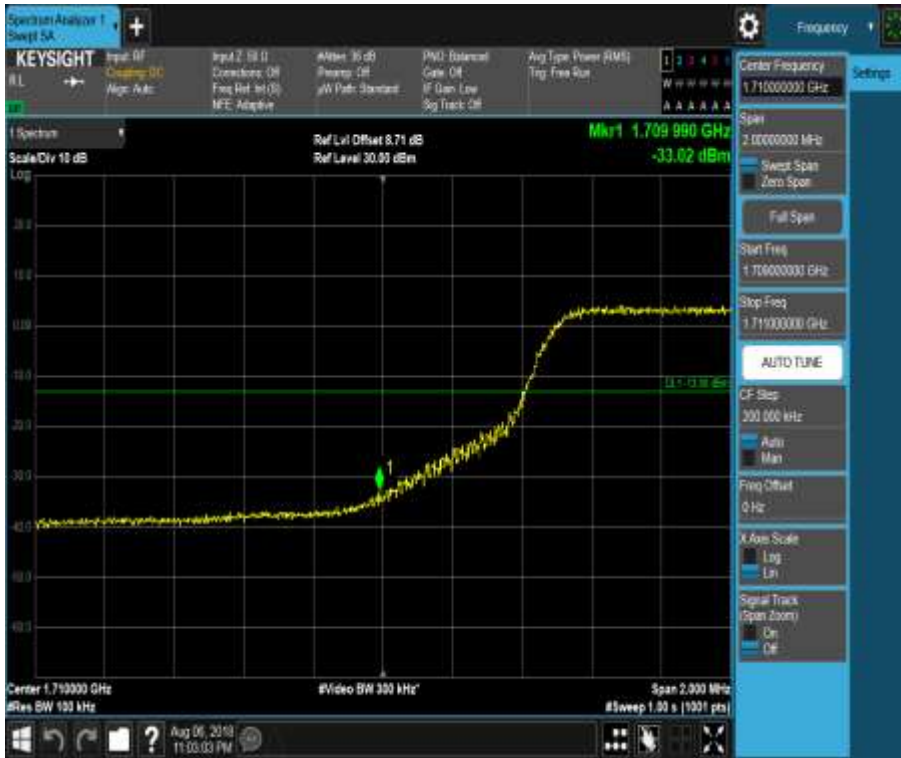




5.1.1.1.4.1.3 Test RB = RB25#13



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

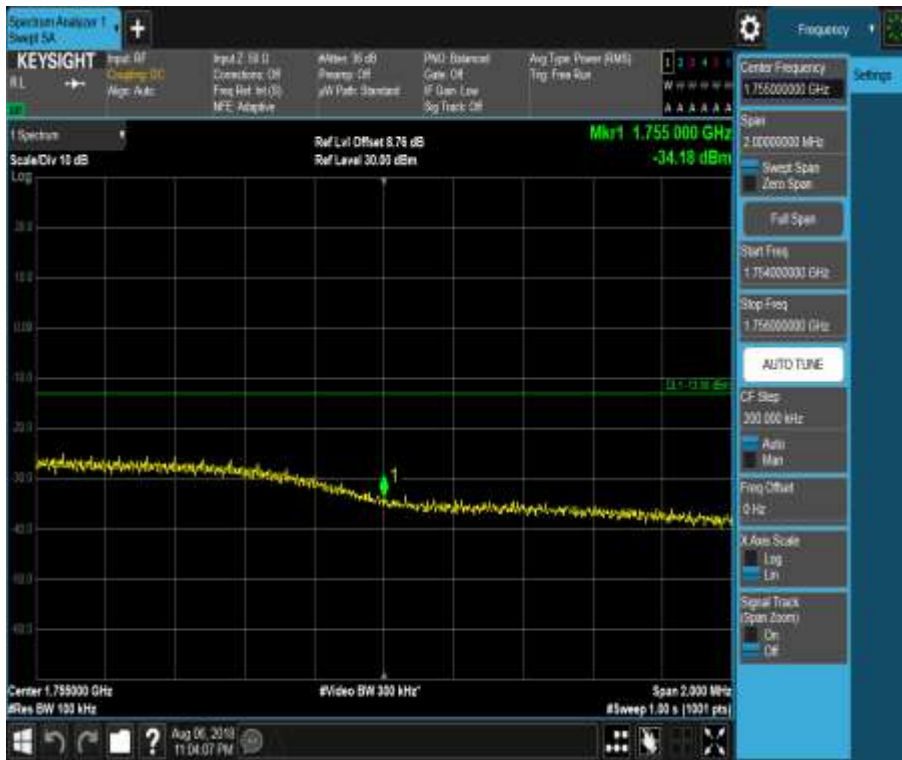




5.1.1.1.4.2.2 Test RB = RB1#49



5.1.1.1.4.2.3 Test RB = RB25#13





5.1.1.1.4.2.4 Test RB = RB50#0



5.1.1.1.5 Test Bandwidth = 15

5.1.1.1.5.1 Test Channel = LCH

5.1.1.1.5.1.1 Test RB = RB1#0





5.1.1.1.5.1.2 Test RB = RB1#74





5.1.1.1.5.1.3 Test RB = RB38#19

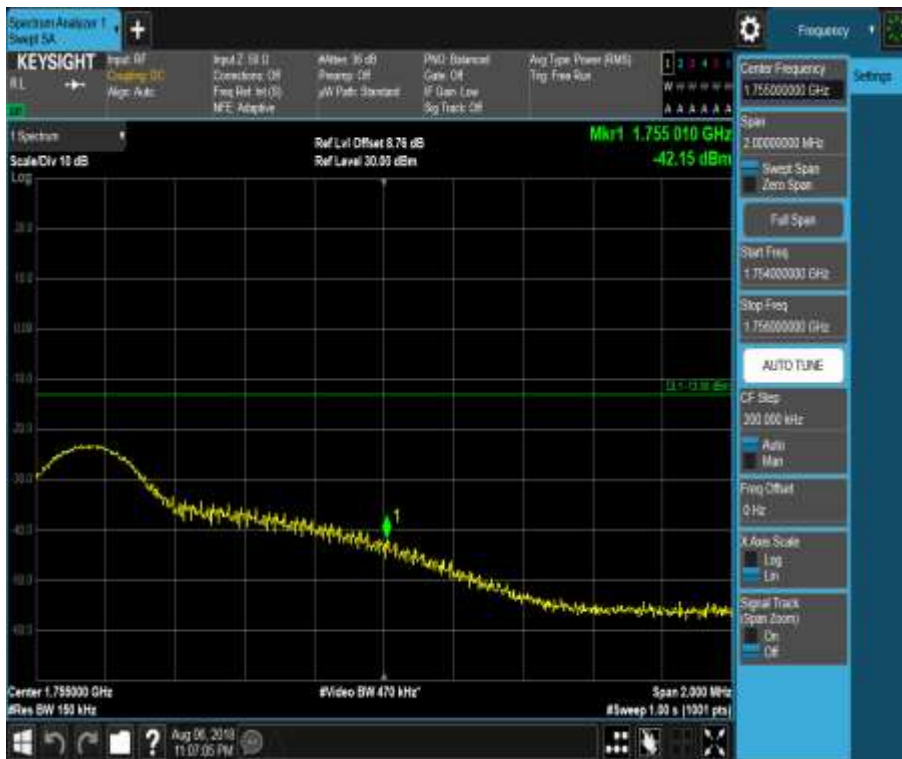


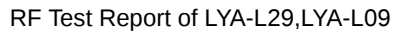
5.1.1.1.5.1.4 Test RB = RB75#0



5.1.1.1.5.2 Test Channel = HCH

5.1.1.1.5.2.1 Test RB = RB1#0

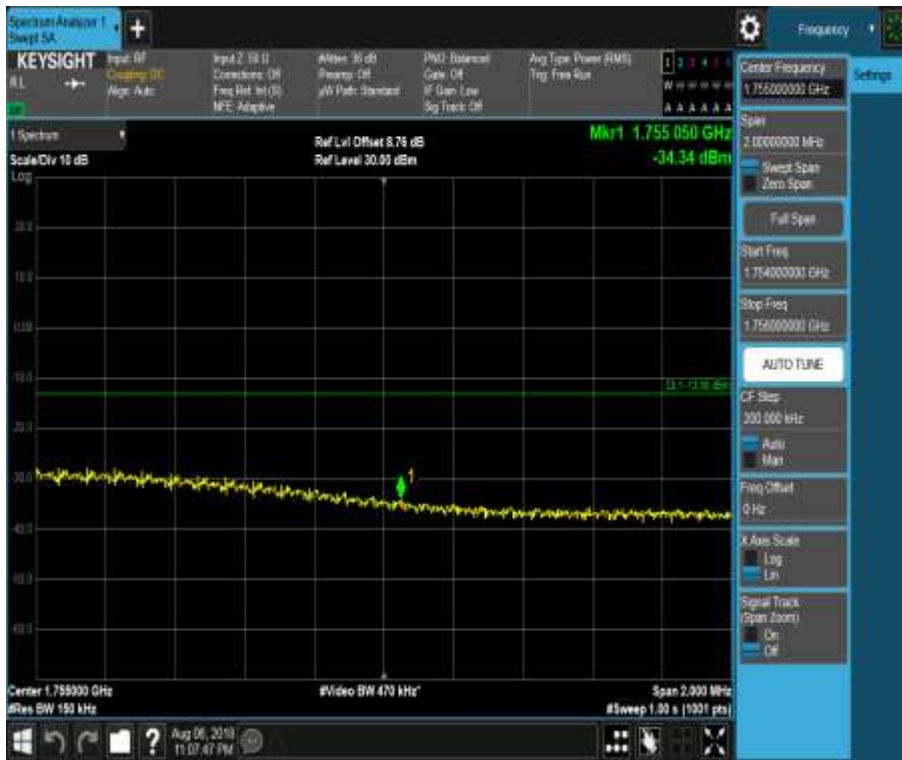




The screenshot displays the Keysight Spectrum Analyzer software interface. The main plot area shows a signal spectrum with a prominent peak at 1.755 GHz, labeled 'Mkr1 1.755 005 GHz' and '-20.32 dBm'. The x-axis represents frequency, and the y-axis represents power in dBm. The interface includes several control panels on the right side, such as 'Center Frequency' (1.755000000 GHz), 'Span' (2.000000000 MHz), 'Start Freq' (1.754000000 GHz), 'Stop Freq' (1.756000000 GHz), 'AUTO TUNE', 'CF Step' (300.000 kHz), 'Auto Man', 'Freq Offset' (0 Hz), 'X-Axis Scale' (Log, Lin), and 'Signal Track' (Span Zoom, On, Off). The bottom status bar indicates 'Center 1.755000 GHz', 'Span 2.000 MHz', and 'Video BW 470 kHz'.



5.1.1.1.5.2.3 Test RB = RB38#19





5.1.1.1.5.2.4 Test RB = RB75#0



5.1.1.1.6 Test Bandwidth = 20

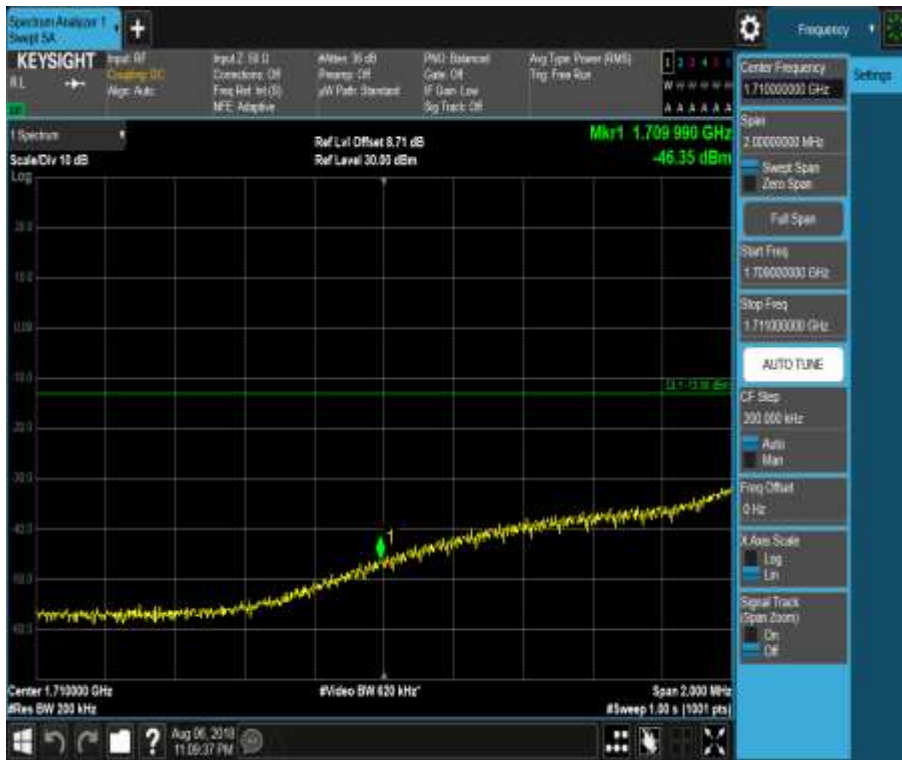
5.1.1.1.6.1 Test Channel = LCH

5.1.1.1.6.1.1 Test RB = RB1#0



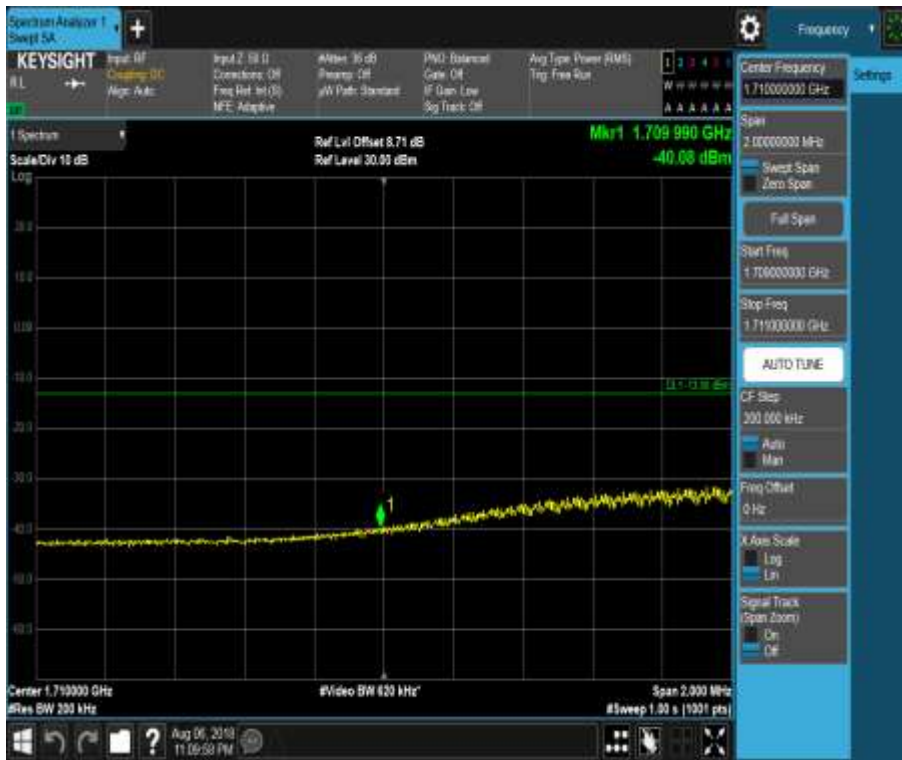


5.1.1.1.6.1.2 Test RB = RB1#99



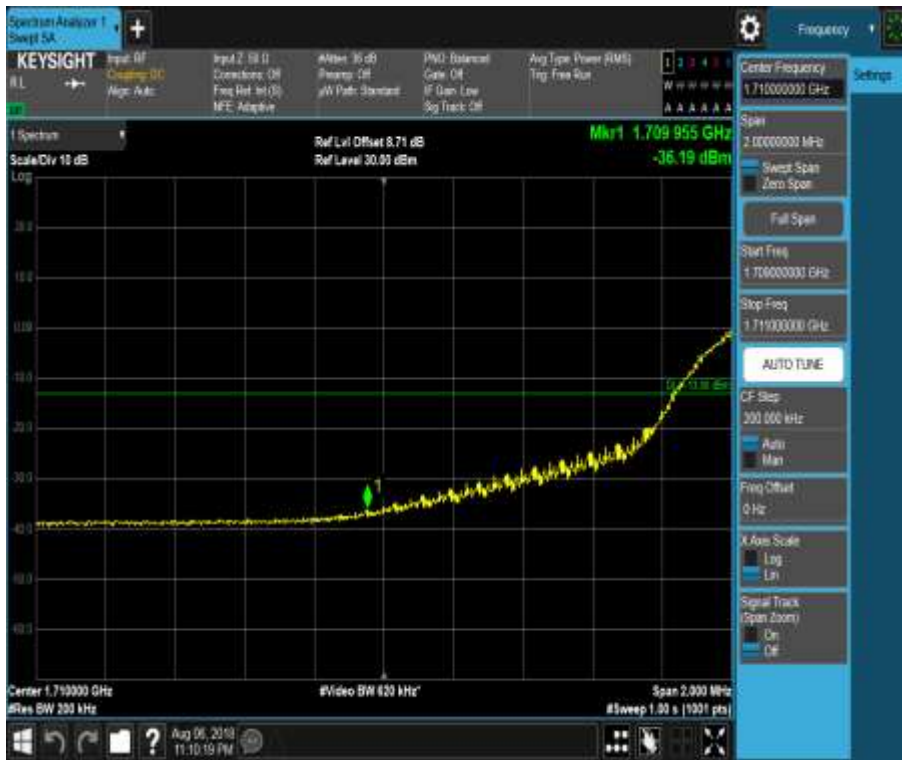


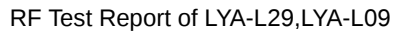
5.1.1.1.6.1.3 Test RB = RB50#25



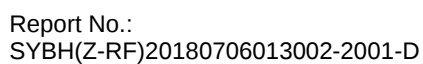


5.1.1.1.6.1.4 Test RB = RB100#0



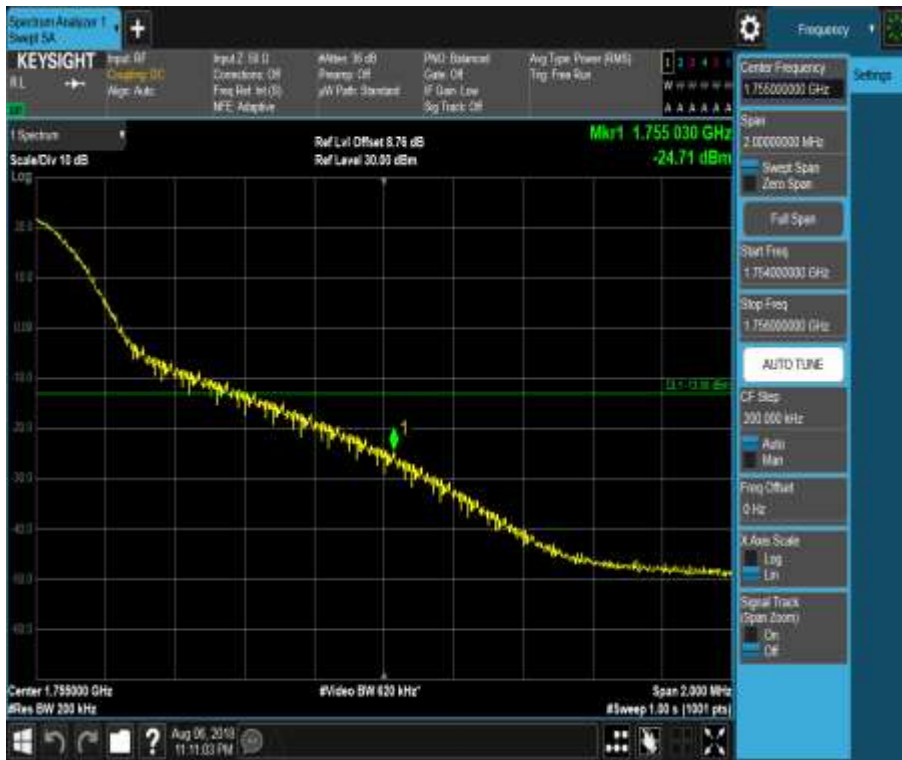


5.1.1.1.6.2.1 Test RB = RB1#0



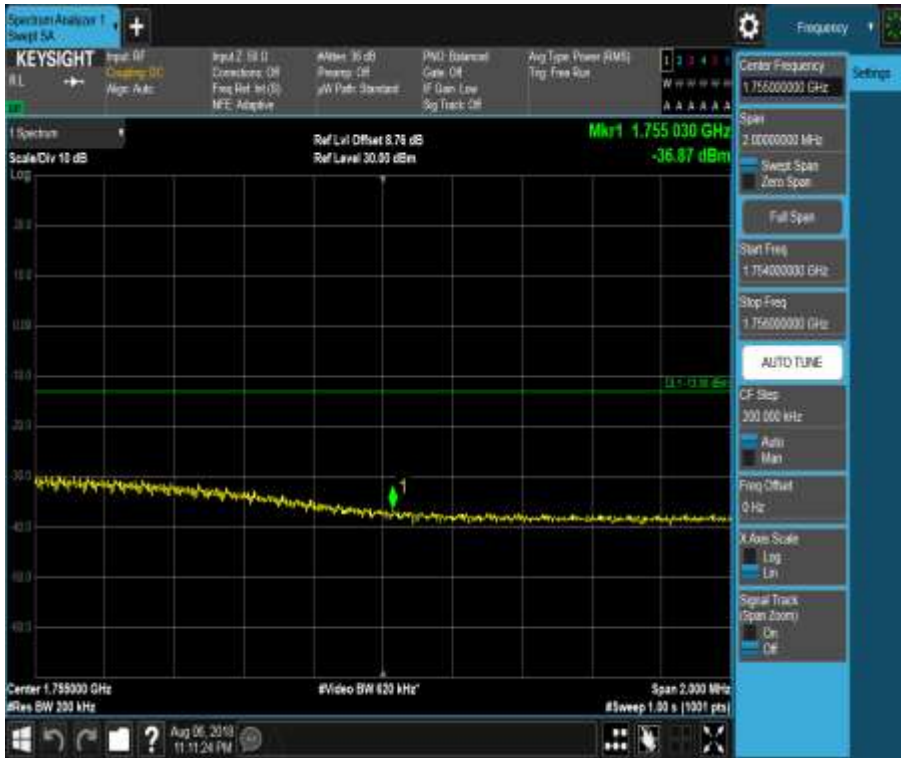


5.1.1.1.6.2.2 Test RB = RB1#99





5.1.1.1.6.2.3 Test RB = RB50#25





5.1.1.1.6.2.4 Test RB = RB100#0

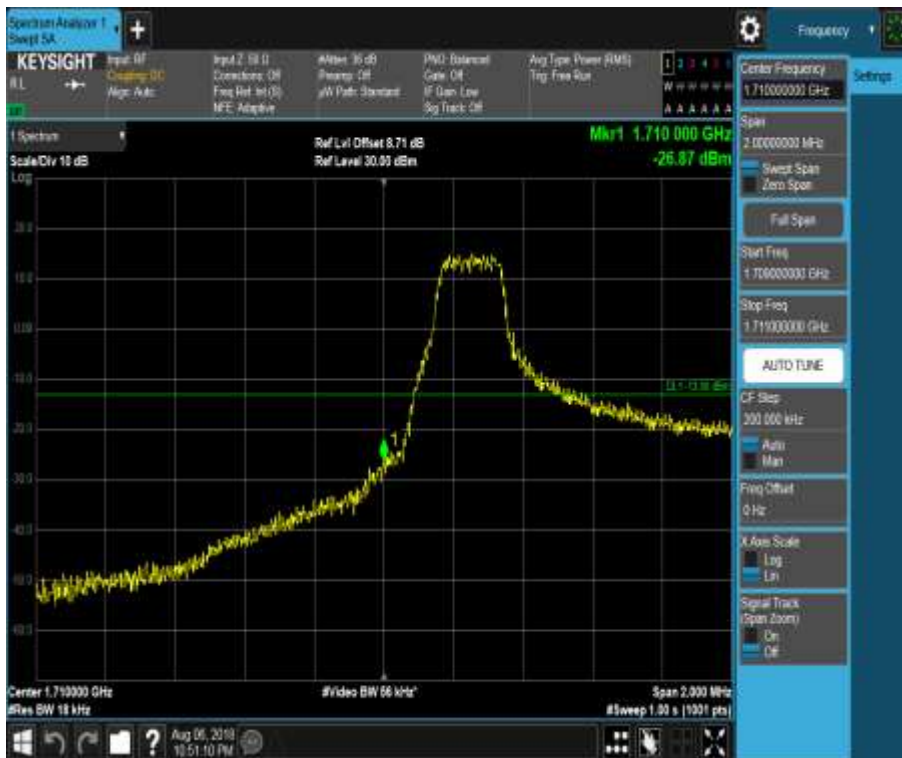


5.1.1.2 Test Mode = LTE/TM2

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





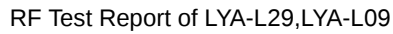
5.1.1.2.1.1.2 Test RB = RB1#5





5.1.1.2.1.1.3 Test RB = RB3#2





Keysight Spectrum Analyzer 1
Sweep SA

KEYSIGHT
Input: 01
Coupling: DC
High: Auto

Input 2: 01
Coupling: Off
Freq Ref: Int (0)
MCE: Adaptive

Attenu: 10 dB
Preamp: Off
dW Plot: Standard

PN0: Balanced
Gate: Off
IF Dam: Low
Sig Track: Off

Avg Type: Power (RMS)
Trig: Free Run

1 2 3 4 5 6 7 8 9 10
W W W W W W W W W W
A A A A A A A A A A

Center Frequency
1.710000000 GHz

Span
2.00000000 MHz

Sweep Span
Zero Span

Full Span

Start Freq
1.708000000 GHz

Stop Freq
1.712000000 GHz

AUTO TUNE

CF Step
300.000 kHz

Auto
Man

Freq Offset
0 Hz

X-Axis Scale
Log
Lin

Signal Track
(Span Zoom)
On
Off

Scale/Div 10 dB
Log

Ref Lvl Offset 8.71 dB
Ref Level 30.91 dBm

Mkr1 1.709 980 GHz
-33.36 dBm

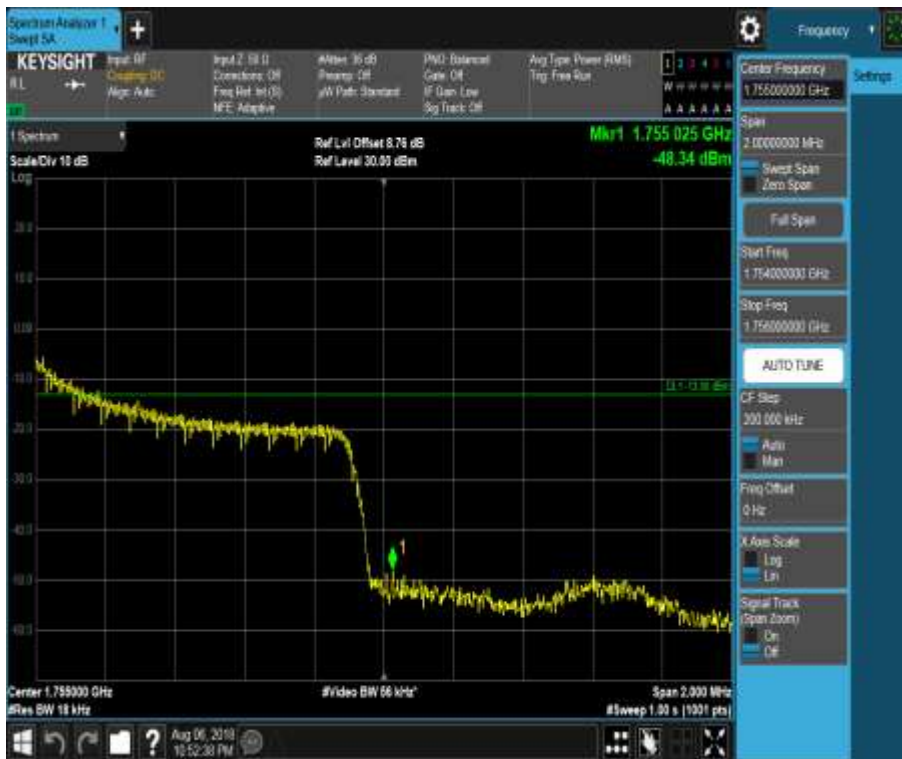
Center 1.710000 GHz
#Video BW 66 kHz

Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

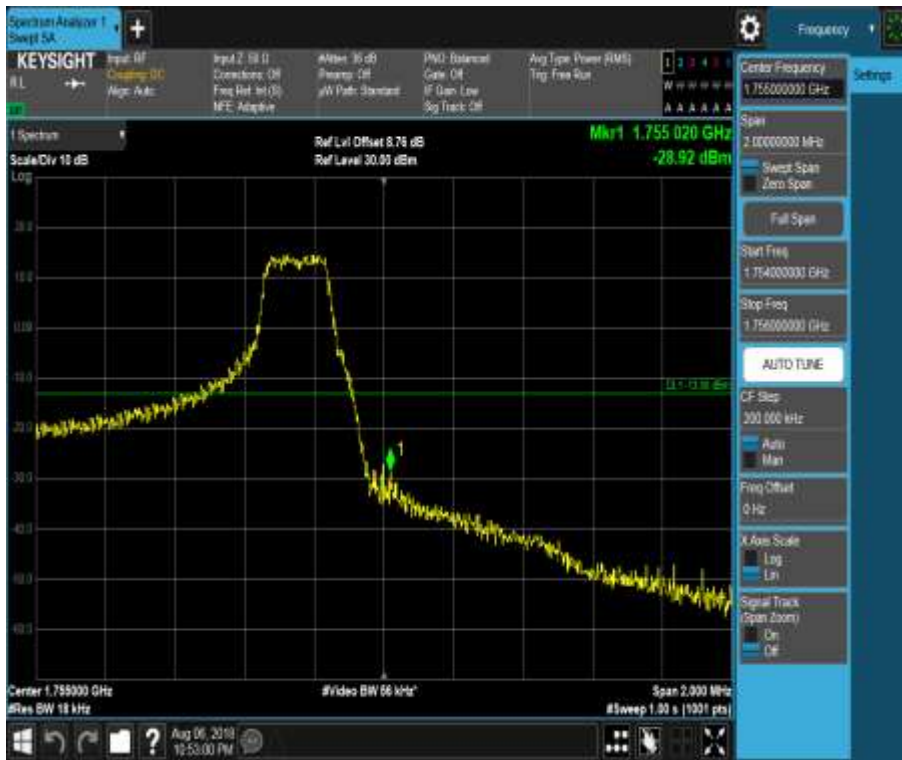
Aug 06, 2010
10:52:15 PM

5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0

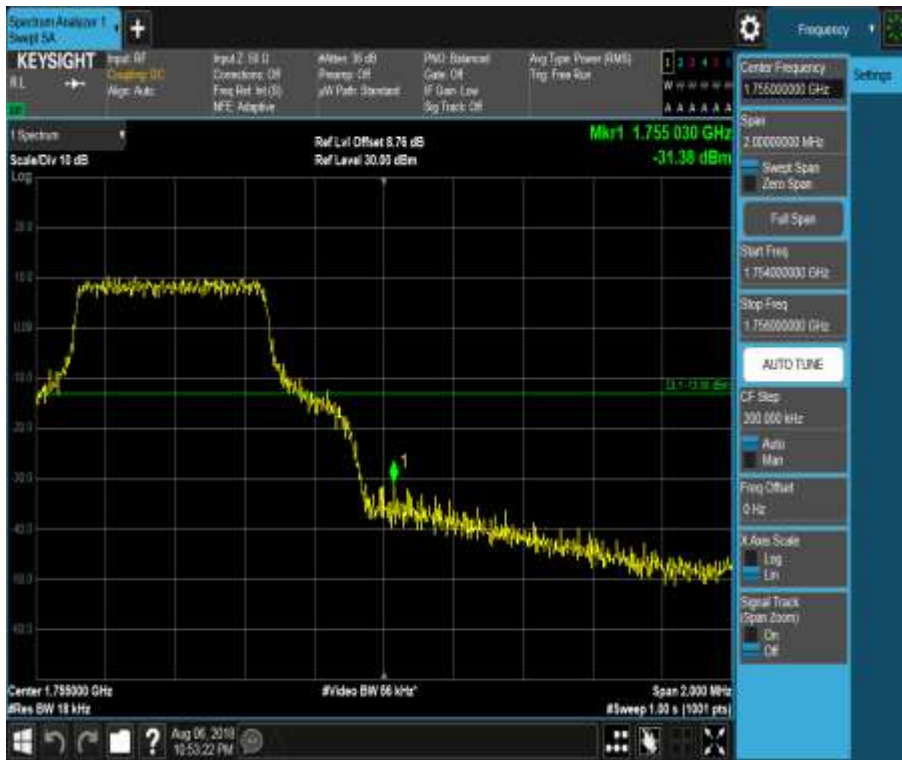


5.1.1.2.1.2.2 Test RB = RB1#5



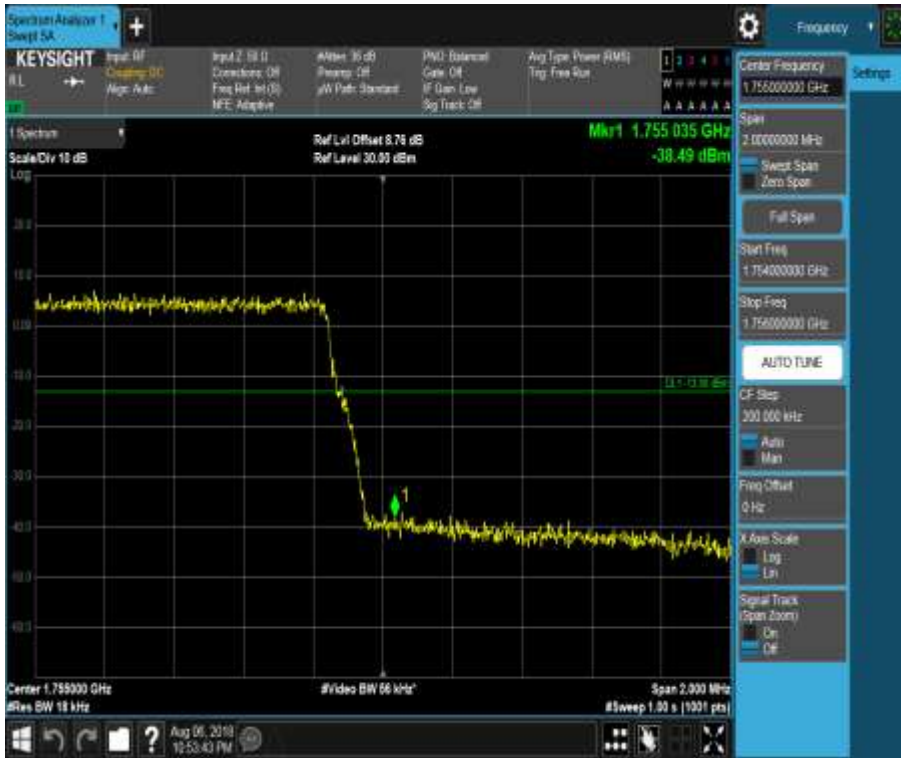


5.1.1.2.1.2.3 Test RB = RB3#2





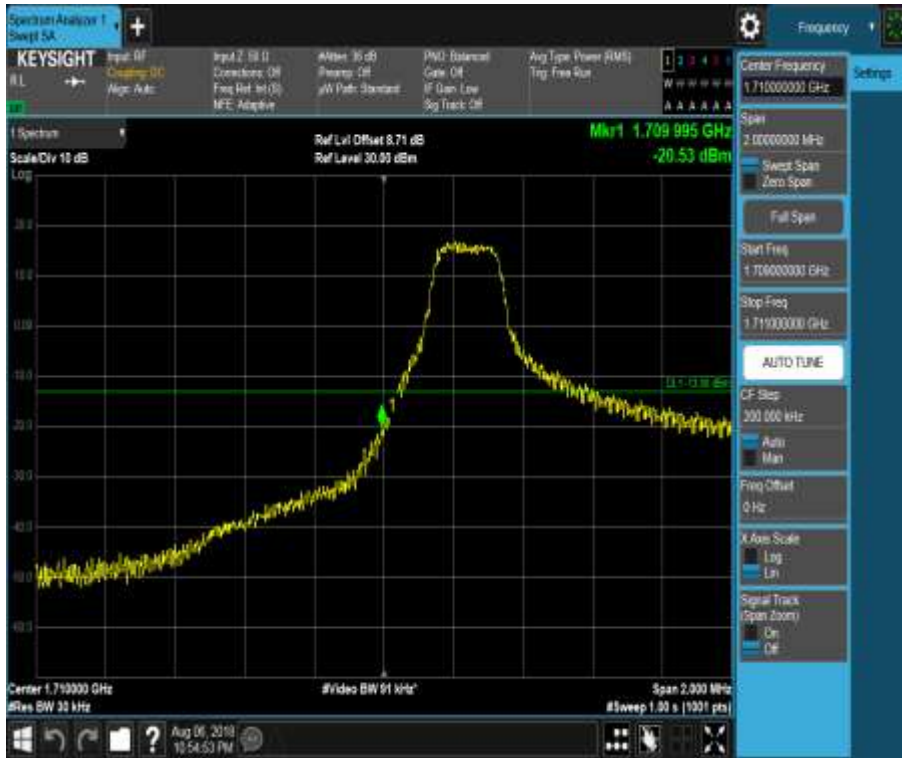
5.1.1.2.1.2.4 Test RB = RB6#0



5.1.1.2.2 Test Bandwidth = 3

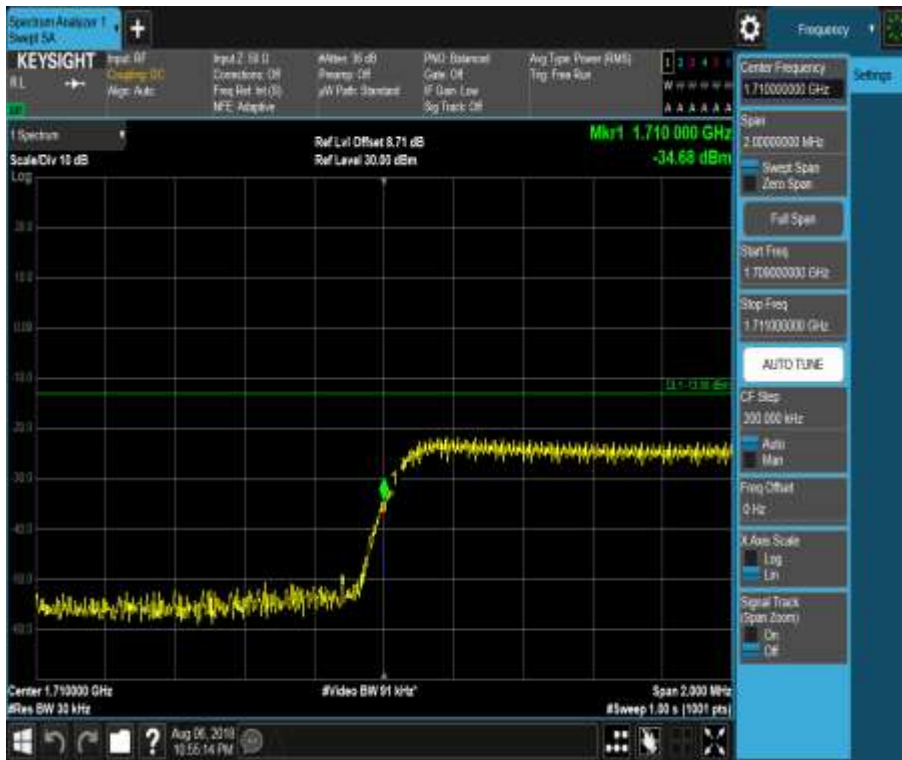
5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0





5.1.1.2.2.1.2 Test RB = RB1#14

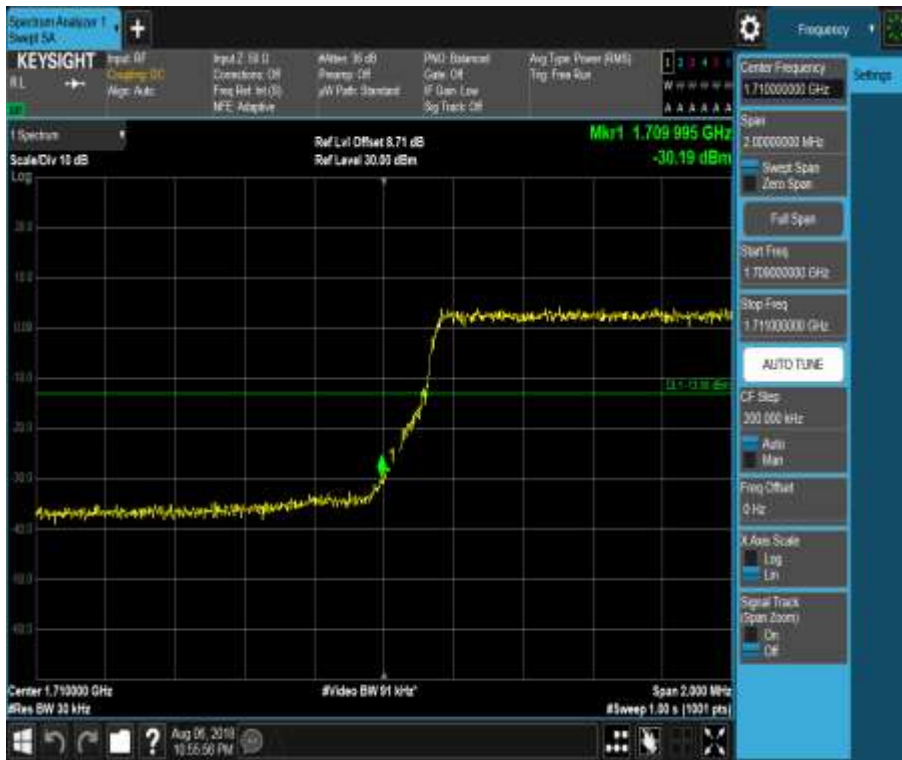


5.1.1.2.2.1.3 Test RB = RB8#4



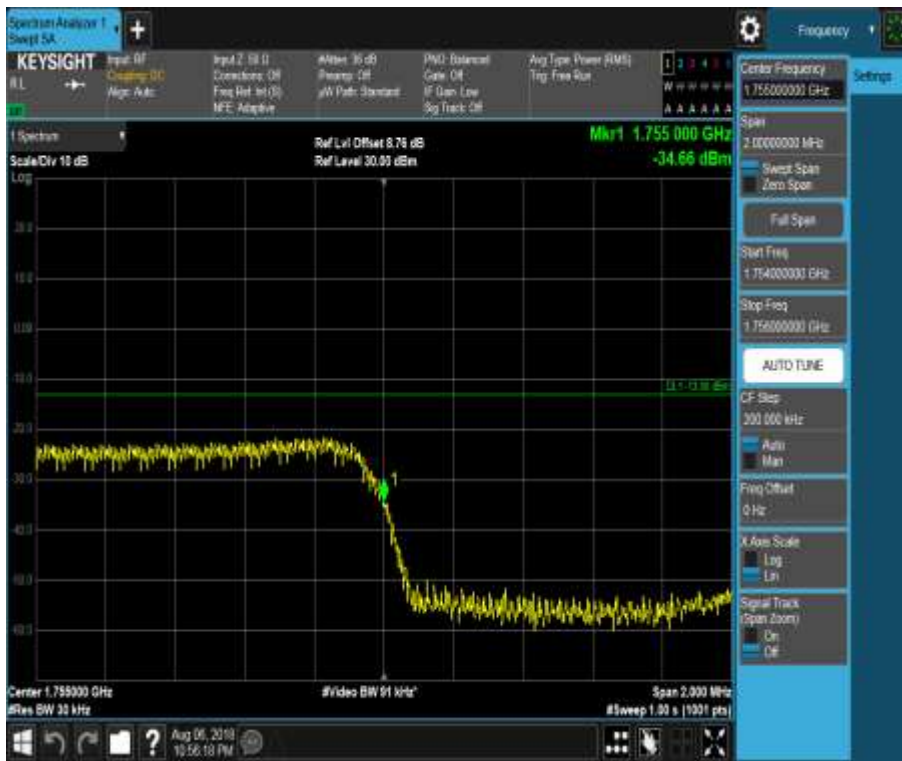


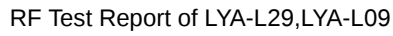
5.1.1.2.2.1.4 Test RB = RB15#0



5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0





Keysight Spectrum Analyzer 1
Sweep 5A

KEYSIGHT
Input: 01
Output: 02
High: Auto

Input 2: 01 0
Correction: Off
Freq Ref: Int (0)
MEE: Adaptive

Attenu: 30 dB
Preamp: Off
dB Path: Standard

PN0: Balanced
Gate: Off
IF Dam: Low
Sig Track: Off

Avg Type: Power (RMS)
Int: Free Run

1 2 3 4 5 6 7 8 9 10
W W W W W W
A A A A A A

Center Frequency
1.755000000 GHz

Span
2.000000000 MHz

Sweep Span
Zero Span

Full Span

Start Freq
1.754000000 GHz

Stop Freq
1.756000000 GHz

AUTO TUNE

CF Step
300.000 kHz

Auto
Man

Freq Offset
0 Hz

X-Axis Scale
Log
Lin

Signal Track
(Span Zoom)
On
Off

1 Spectrum
Scale/Div 10 dB
Log

Ref Lvl Offset 0.76 dB
Ref Level 30.93 dBm

Mkr1 1.755 000 GHz
-22.11 dBm

Center 1.755000 GHz
#Res BW 30 kHz

#Video BW 51 kHz

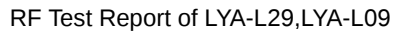
Span 2.000 MHz
#Sweep 1.00 s (1001 pts)

Aug 06, 2019
10:56:39 PM



5.1.1.2.2.3 Test RB = RB8#4

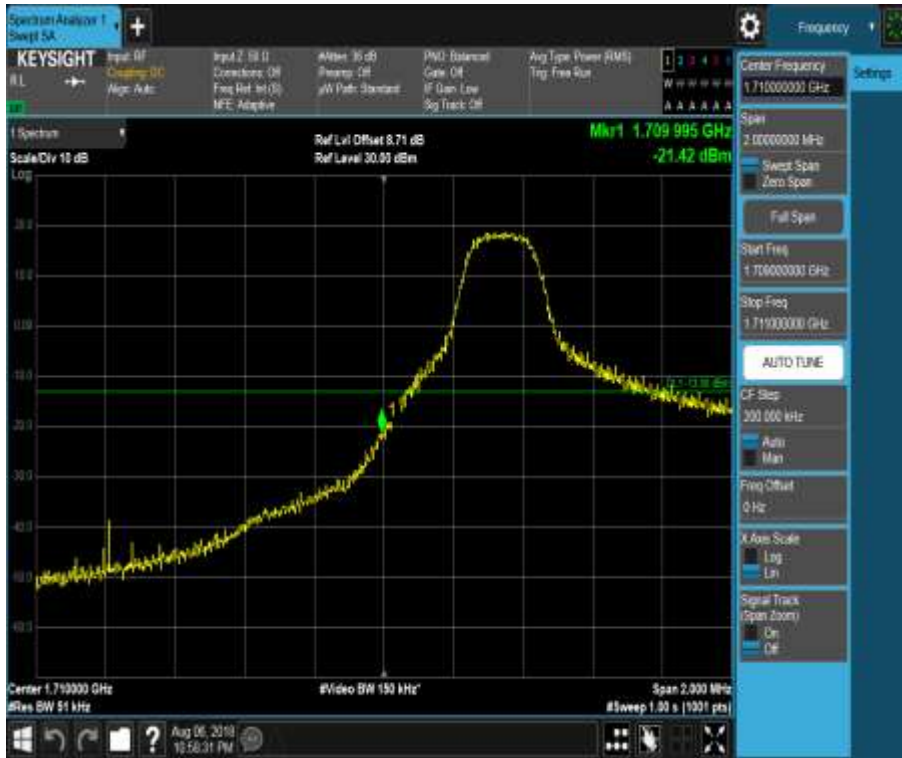


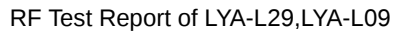


5.1.1.2.3 Test Bandwidth = 5

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0

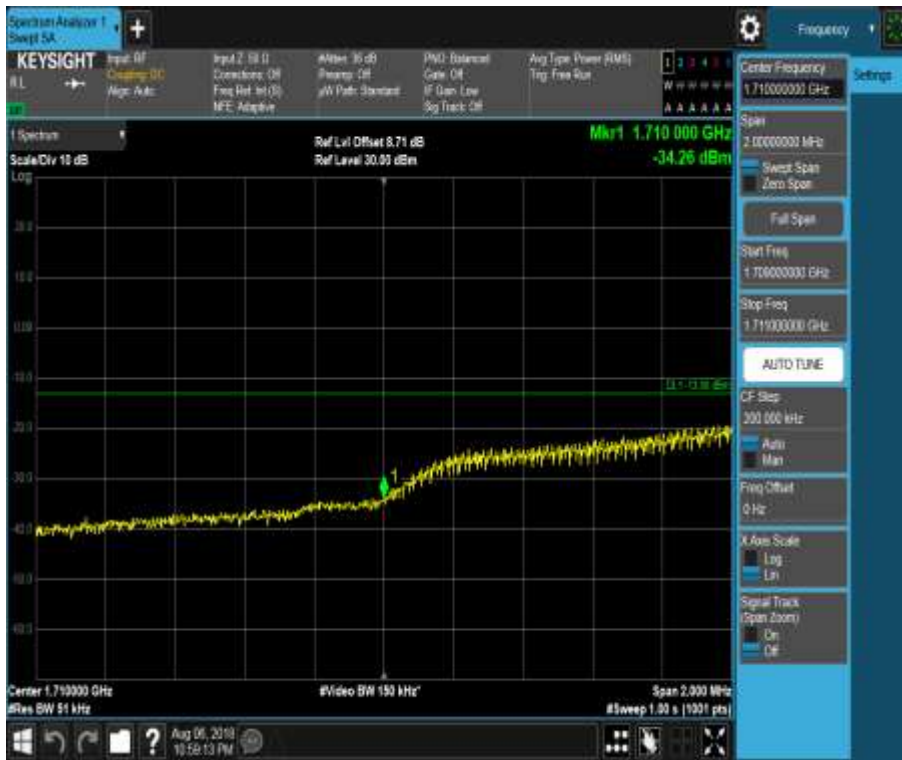




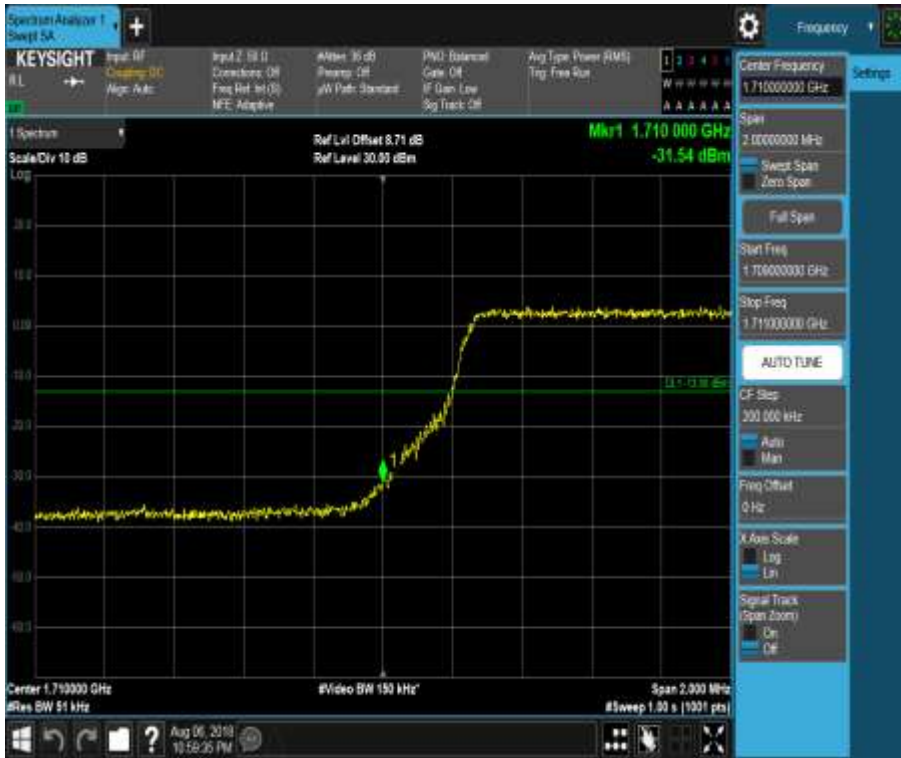
The screenshot displays the Keysight Spectrum Analyzer 1 (Sweep SA) interface. The main display area shows a spectrum plot with a yellow trace. A green horizontal line is at -38.42 dBm. The plot is labeled 'Mkr1 1.709 995 GHz' and '-38.42 dBm'. The plot shows a signal rising from a noise floor at approximately 1.7 GHz. The plot is labeled 'Scale/Div 10 dB' and 'Log'. The plot is labeled 'Center Freq 1.710000 GHz' and 'Span 2.000 MHz'. The plot is labeled 'Video BW 150 kHz' and '#Sweep 1.00 s (1001 pts)'. The plot is labeled 'Ref Lvl Offset 8.71 dB' and 'Ref Level 30.93 dBm'. The plot is labeled 'Mkr1 1.709 995 GHz' and '-38.42 dBm'.

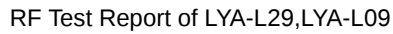


5.1.1.2.3.1.3 Test RB = RB12#6

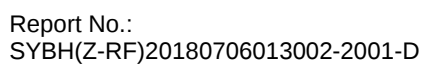


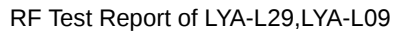
5.1.1.2.3.1.4 Test RB = RB25#0





5.1.1.2.3.2.1 Test RB = RB1#0



[illegible]

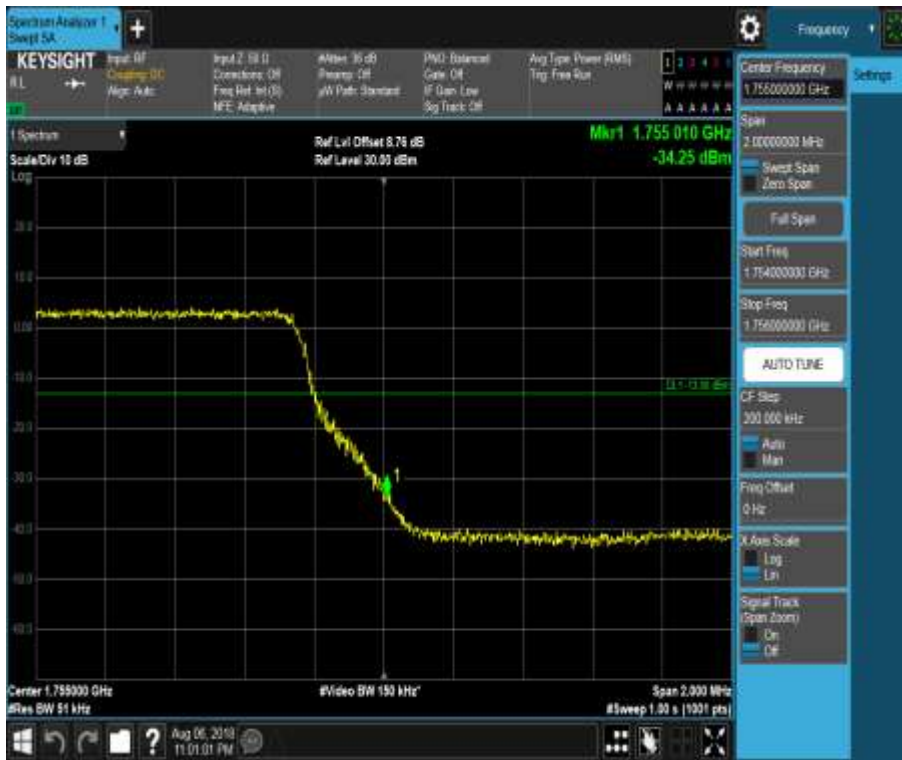


5.1.1.2.3.2.3 Test RB = RB12#6





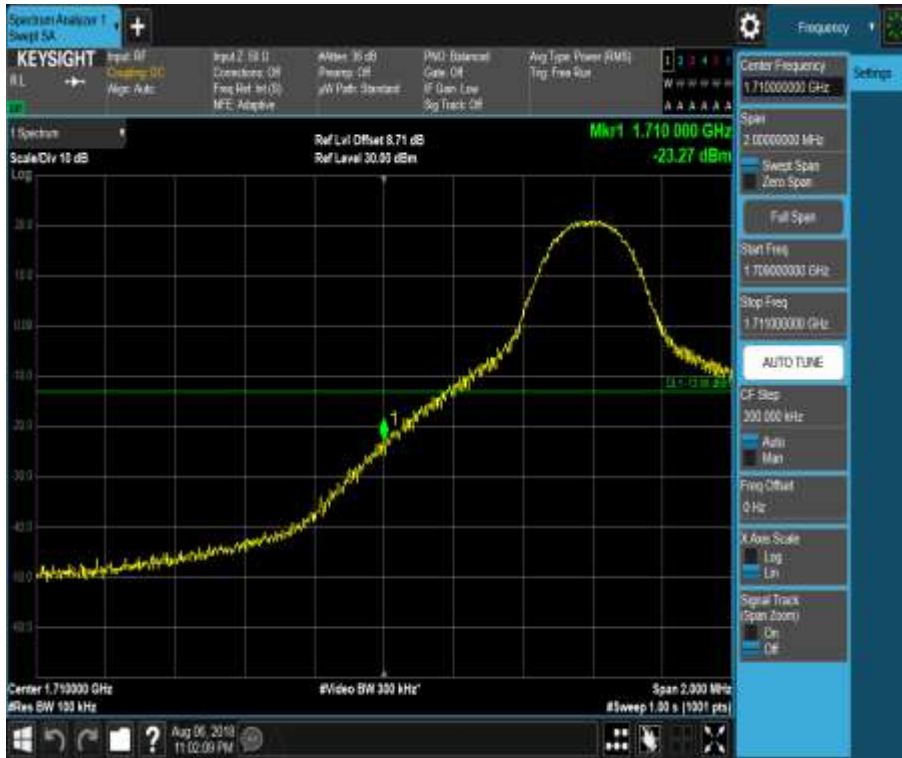
5.1.1.2.3.2.4 Test RB = RB25#0



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



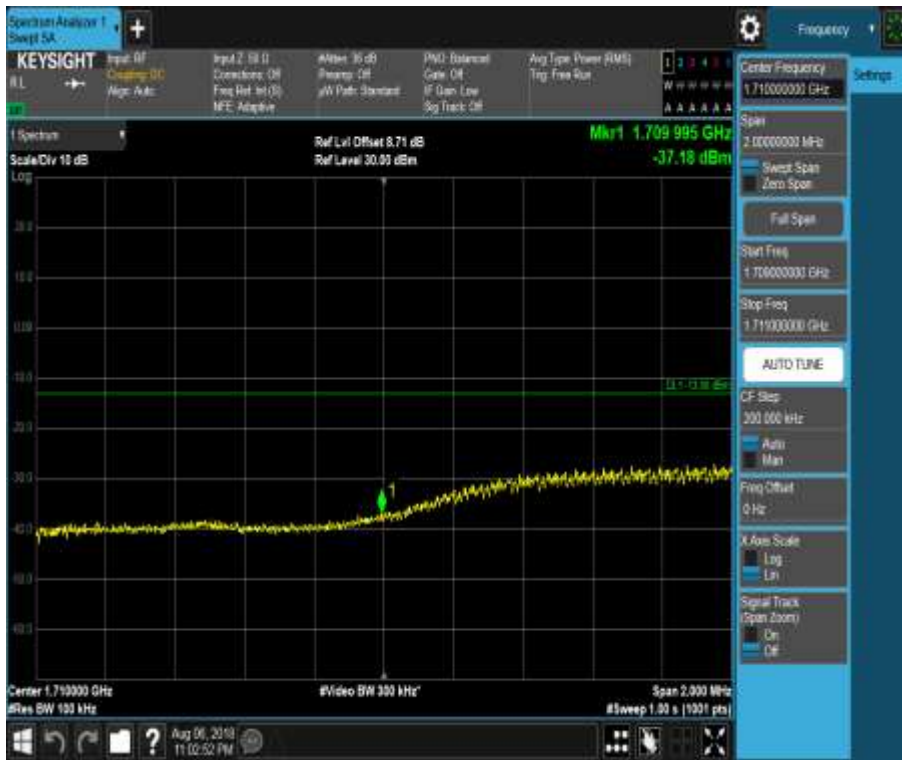


5.1.1.2.4.1.2 Test RB = RB1#49





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



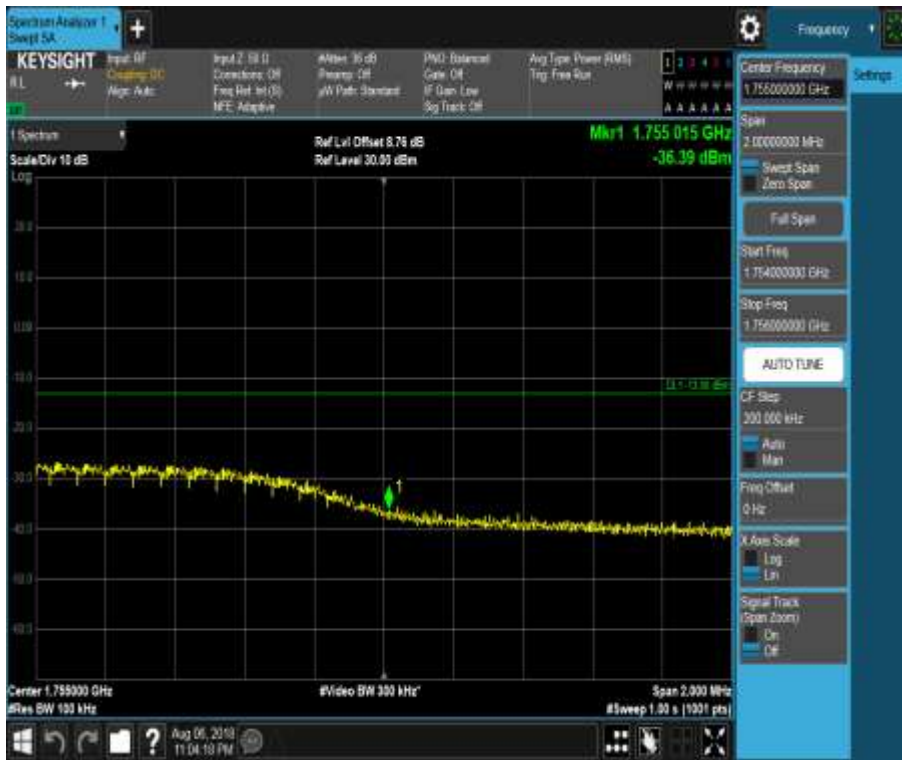


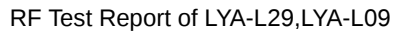
5.1.1.2.4.2.2 Test RB = RB1#49





5.1.1.2.4.2.3 Test RB = RB25#13





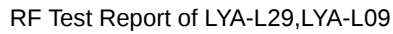
The screenshot displays the Keysight Spectrum Analyzer interface. The main plot shows a signal trace with a peak labeled '1' at approximately 1.755 GHz. The Y-axis represents power in dBm, ranging from -40.0 to 20.0. The X-axis represents frequency in GHz, ranging from 1.750000 to 1.760000. The signal trace is yellow, and the peak is marked with a green arrow and the label '1'. The background is dark blue with a grid. The top status bar shows various settings: Input: Off, Corrections: Off, Freq Ref: Int (0), MCE: Adaptive, Attenu: 30 dB, Preamp: Off, PNO: Balanced, Gate: Off, IF Band: Low, Seg Track: Off, Avg Type: Power (RMS), Trig: Free Run. The right sidebar contains settings for Center Frequency (1.75500000 GHz), Span (2.00000000 MHz), Sweep Span (Zero Span), Full Span, Start Freq (1.754000000 GHz), Stop Freq (1.756000000 GHz), AUTO TUNE, CF Stop (300.000 kHz), Auto Man, Freq Offset (0 Hz), X-Axis Scale (Log, Lin), Signal Track (Span Zoom) (On, Off). The bottom status bar shows Center 1.755000 GHz, Span 2.000 MHz, #Video BW 300 kHz, #Sweep 1.00 s (1001 pts), and a Windows taskbar at the bottom with the date Aug 06, 2010, and time 11:04:40 PM.

5.1.1.2.5 Test Bandwidth = 15

5.1.1.2.5.1 Test Channel = LCH

5.1.1.2.5.1.1 Test RB = RB1#0





Spectrum Analyzer 1
 Sweep SA

KEYSIGHT
 Input: 01
 Corrections: Off
 Freq Ref: 100 MHz
 Noise: Adaptive

Attenu: 30 dB
 Preamp: Off
 Noise Plot: Standard
 Seg Track: Off

PNO: Balanced
 Gate: Off
 IF Band: Low
 Seg Track: Off

Avg Type: Power (RMS)
 Trig: Free Run

1 2 3 4 5 6 7 8 9 10 11 12
 W W W W W W
 A A A A A A

Center Frequency
 1.710000000 GHz

Span
 2.000000000 MHz

Sweep Span
 Zero Span

Full Span

Start Freq
 1.708000000 GHz

Stop Freq
 1.712000000 GHz

AUTO TUNE

CF Step
 300.000 kHz

Auto
 Man

Freq Offset
 0 Hz

X-Axis Scale
 Log
 Lin

Signal Track
 (Span Zoom)
 On
 Off

1 Spectrum
 Scale/Div 10 dB
 Log

Ref Lvl Offset 8.71 dB
 Ref Level 30.91 dBm

Mkr1 1.709 990 GHz
 -44.62 dBm

Center 1.710000 GHz
 Span 2.000 MHz
 #Video BW 470 kHz
 #Sweep 1.00 s (1001 pts)



5.1.1.2.5.1.3 Test RB = RB38#19



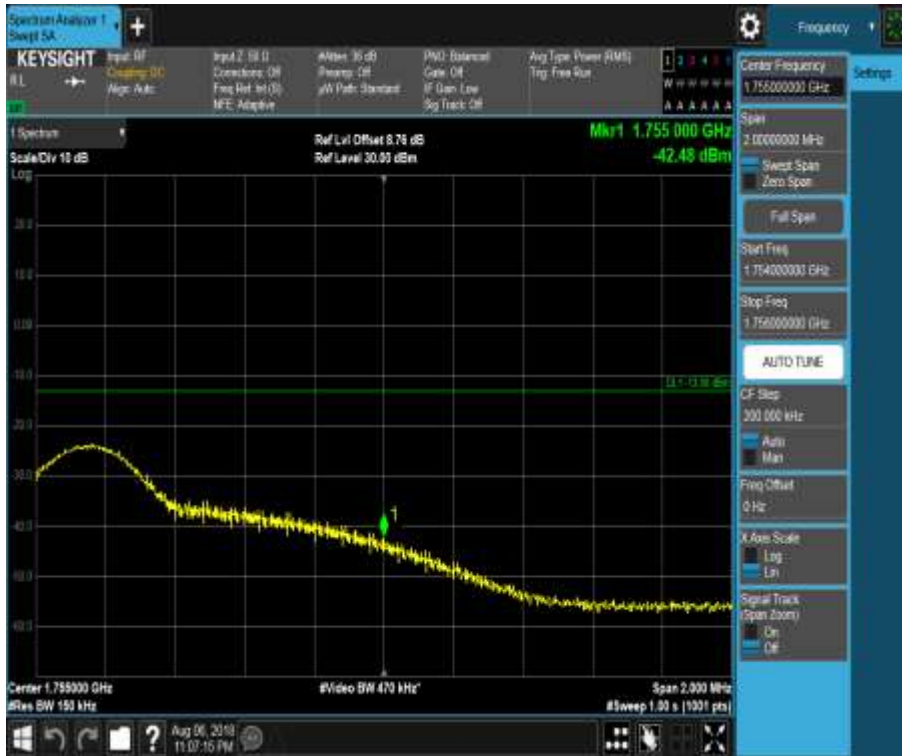


5.1.1.2.5.1.4 Test RB = RB75#0



5.1.1.2.5.2 Test Channel = HCH

5.1.1.2.5.2.1 Test RB = RB1#0

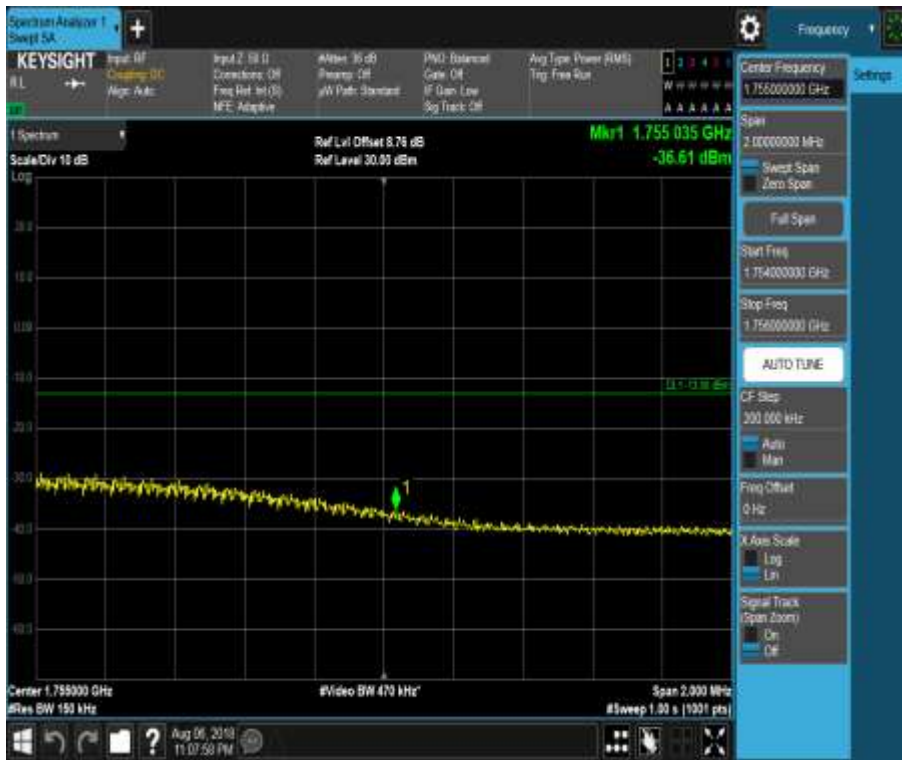


5.1.1.2.5.2.2 Test RB = RB1#74





5.1.1.2.5.2.3 Test RB = RB38#19



5.1.1.2.5.2.4 Test RB = RB75#0



5.1.1.2.6 Test Bandwidth = 20

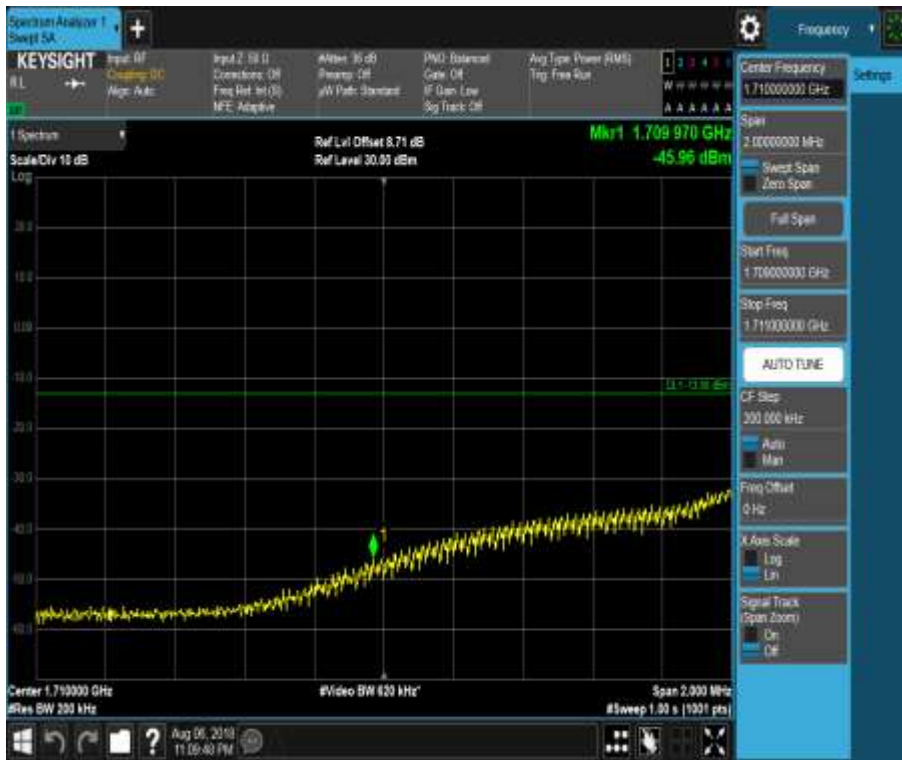
5.1.1.2.6.1 Test Channel = LCH

5.1.1.2.6.1.1 Test RB = RB1#0



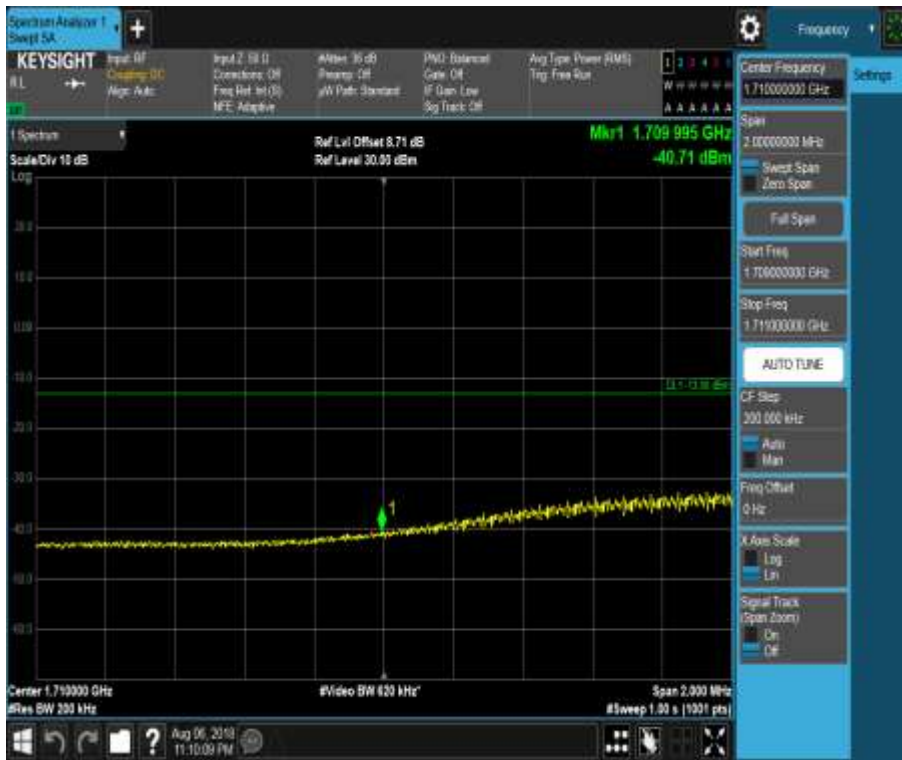


5.1.1.2.6.1.2 Test RB = RB1#99





5.1.1.2.6.1.3 Test RB = RB50#25



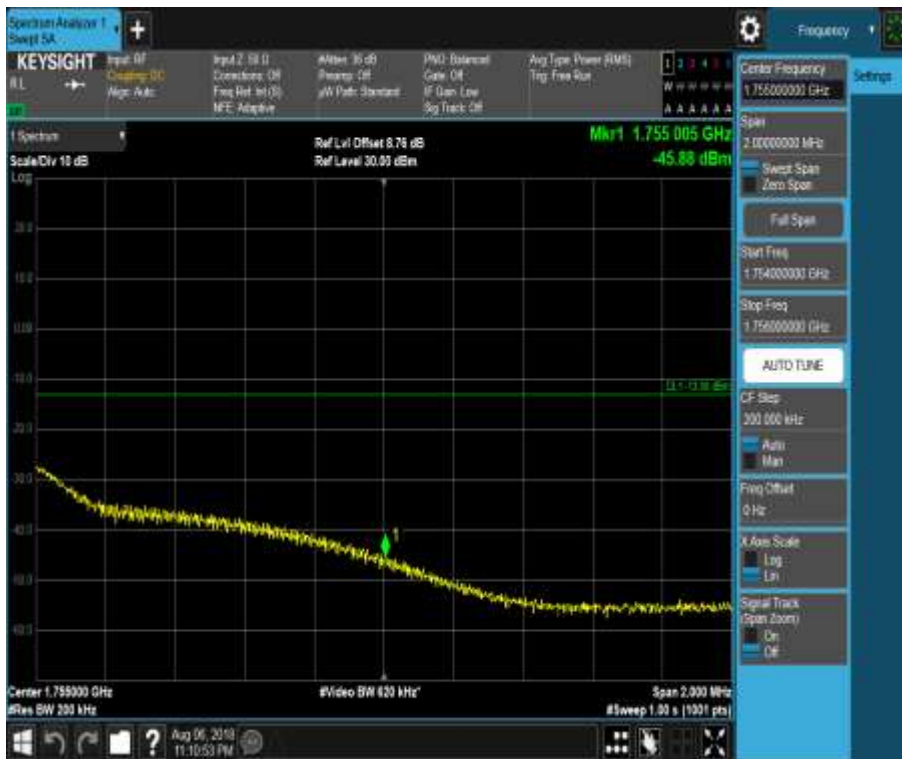


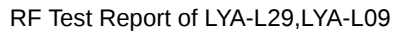
5.1.1.2.6.1.4 Test RB = RB100#0



5.1.1.2.6.2 Test Channel = HCH

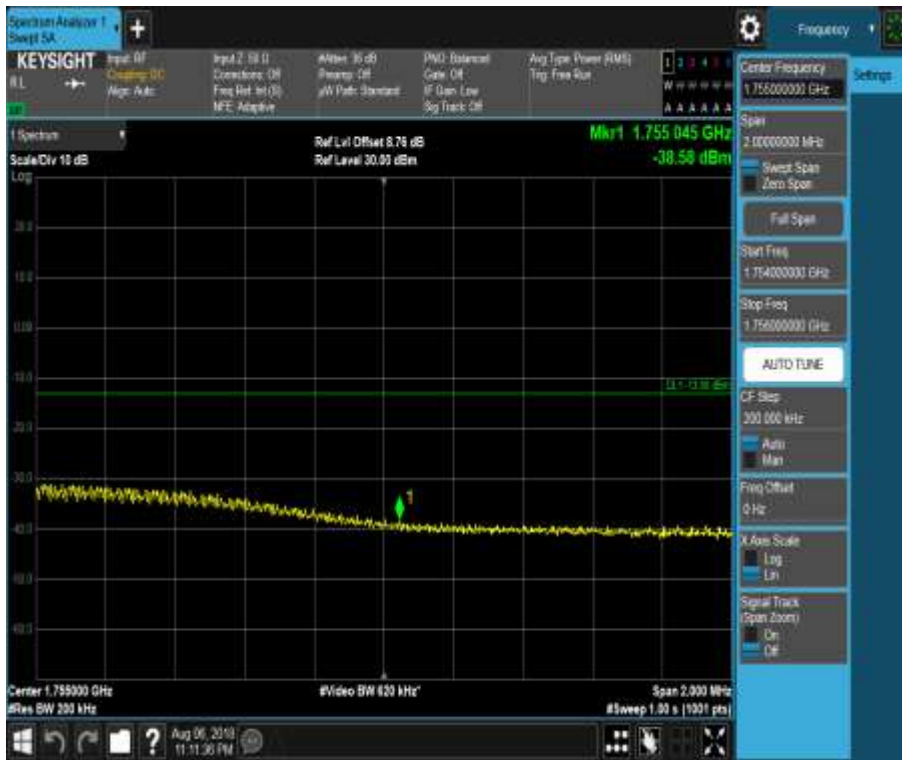
5.1.1.2.6.2.1 Test RB = RB1#0



[illegible]

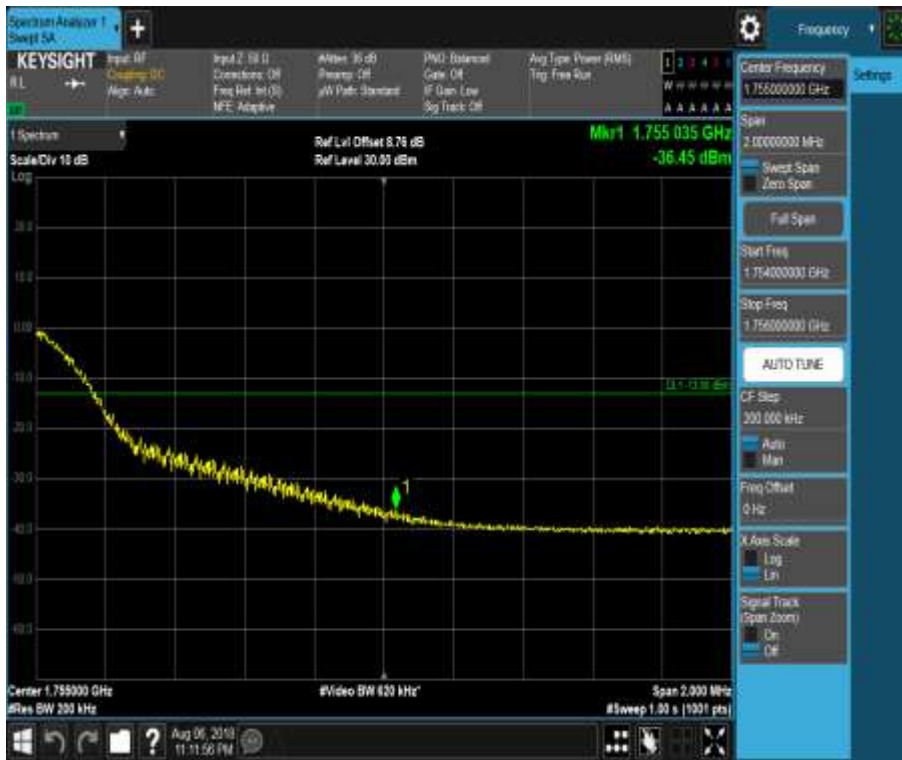


5.1.1.2.6.2.3 Test RB = RB50#25





5.1.1.2.6.2.4 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 = BAND4

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



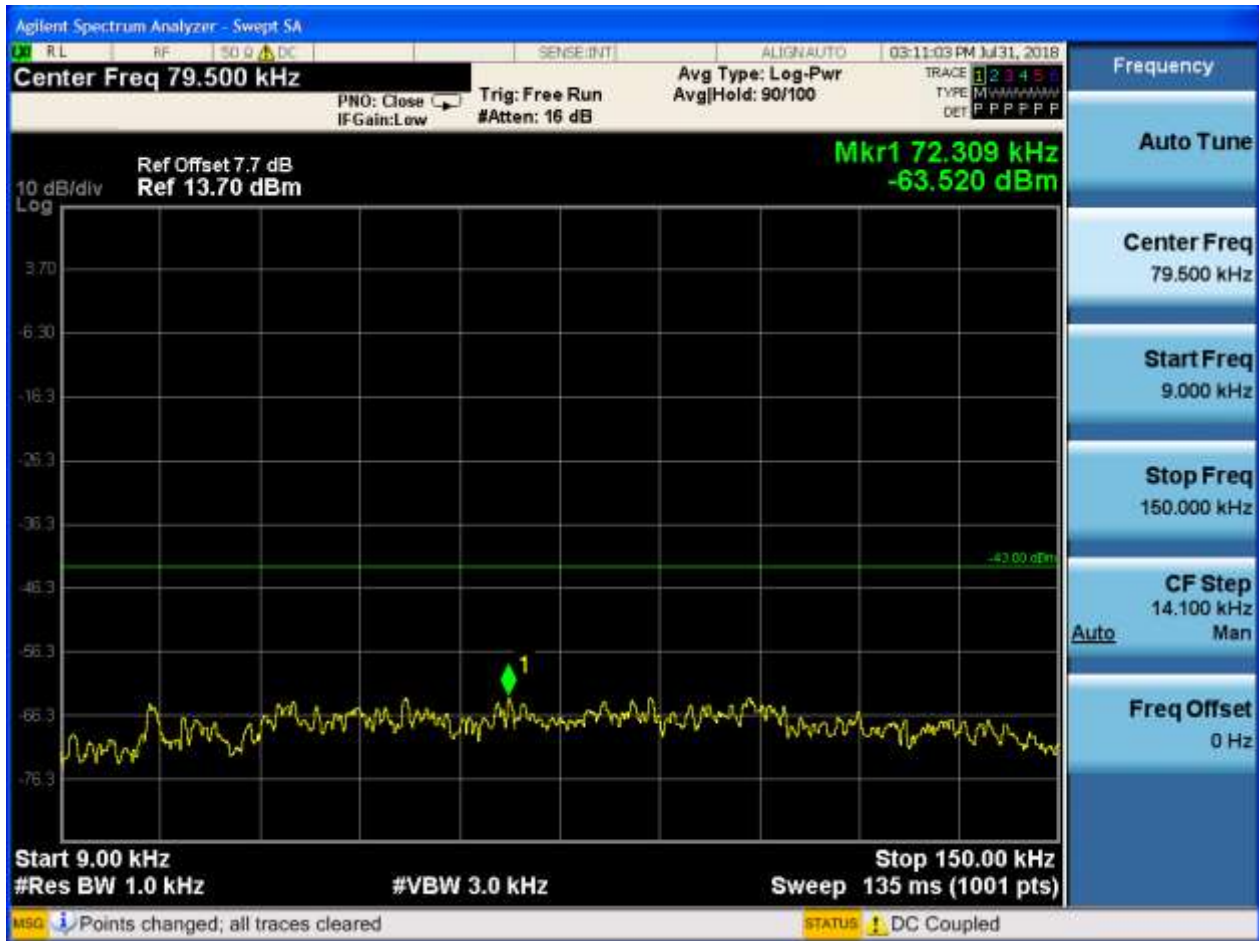






6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0





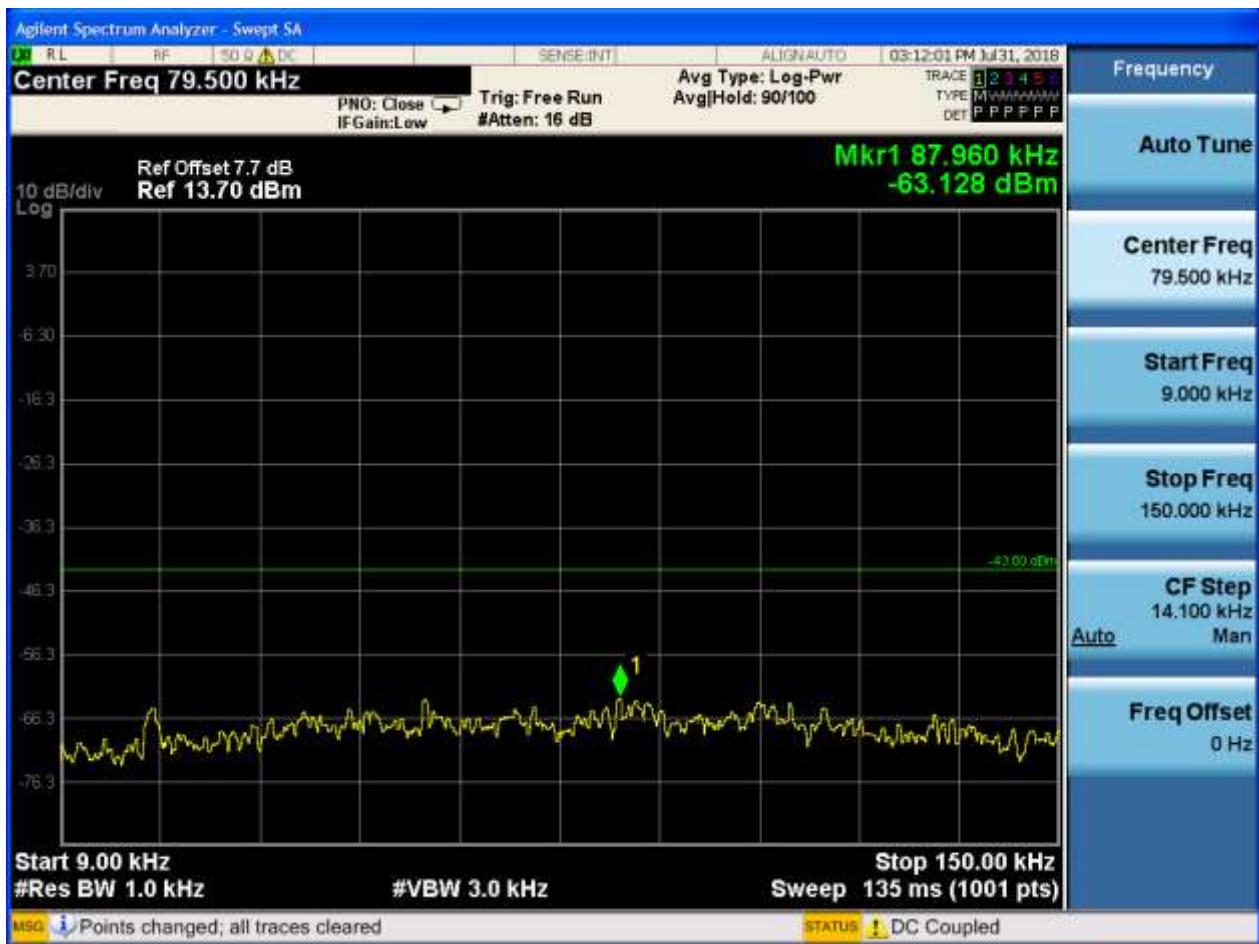




6.1.1.1.2 Test Bandwidth = 3

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





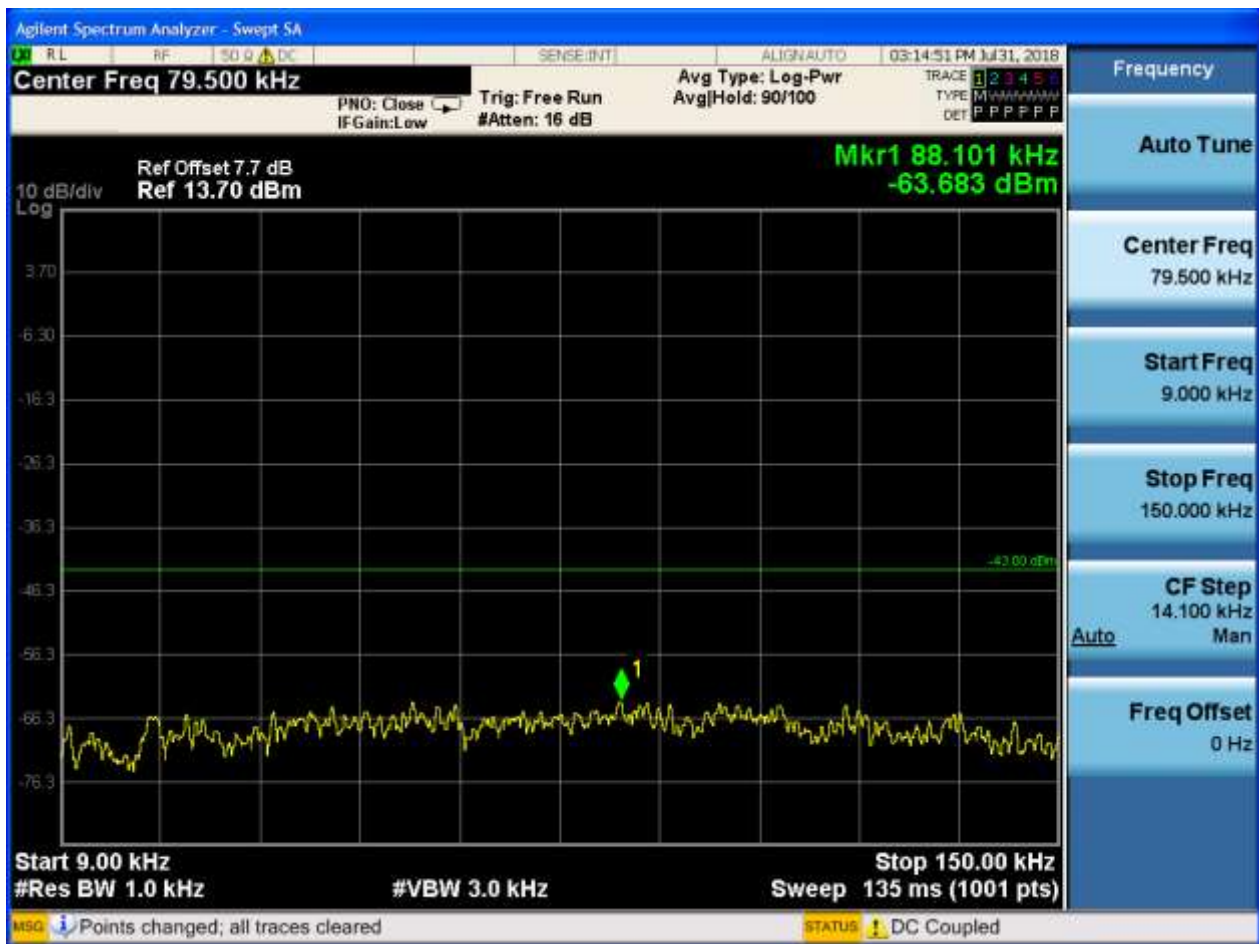




6.1.1.1.3 Test Bandwidth = 5

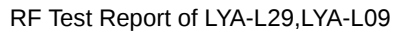
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0









6.1.1.1.3.2.1 Test RB = RB1#0







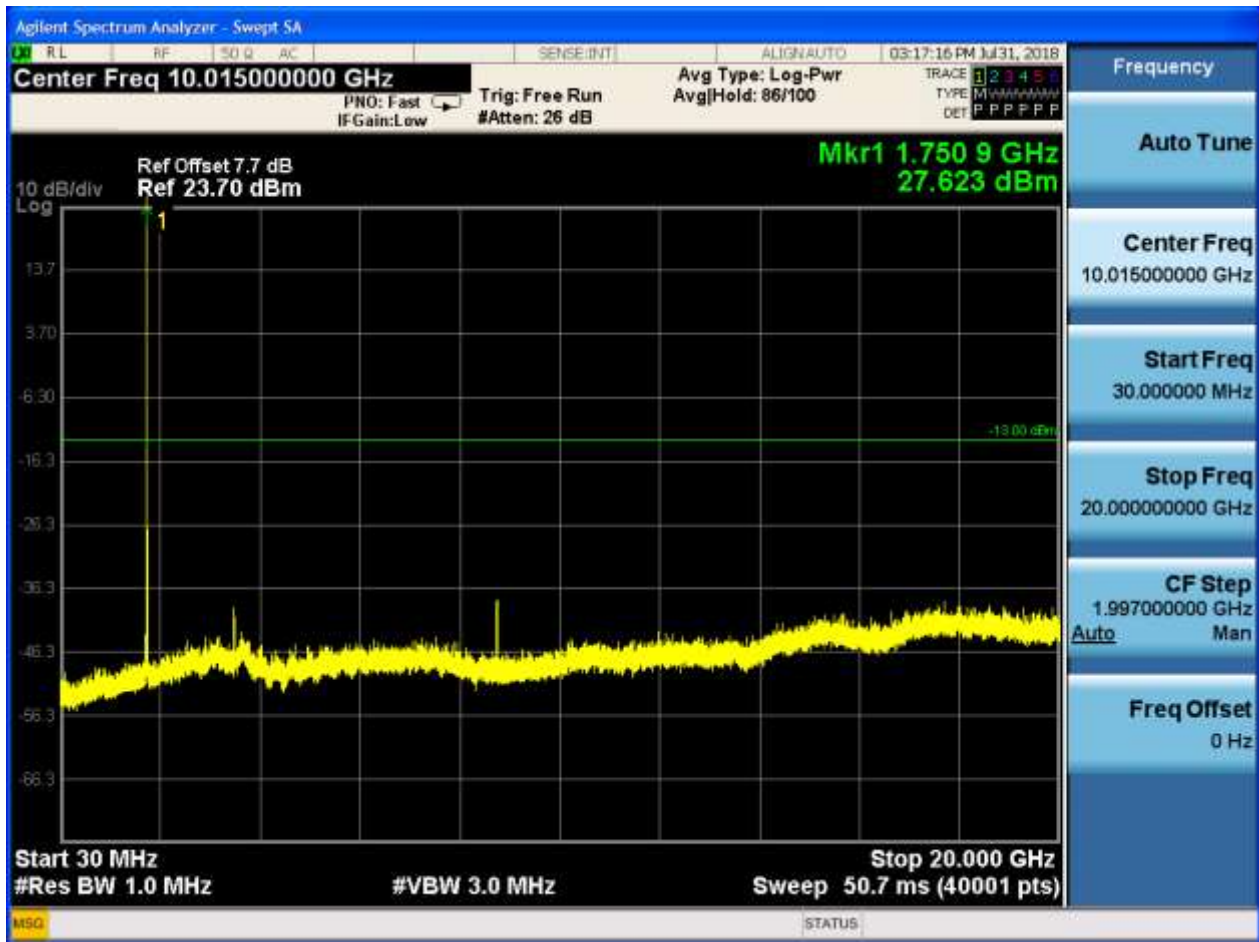


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0





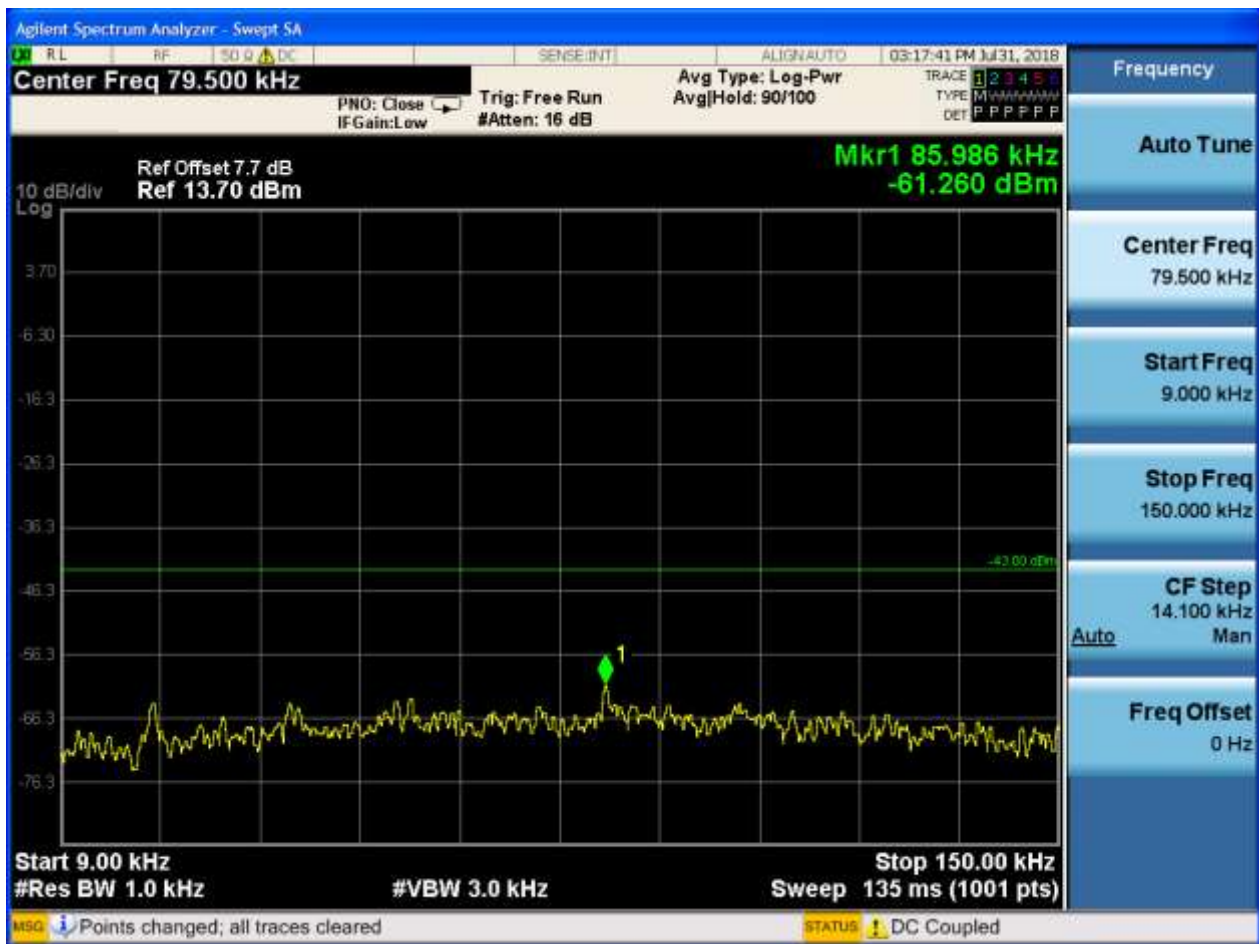




6.1.1.1.4 Test Bandwidth = 10

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



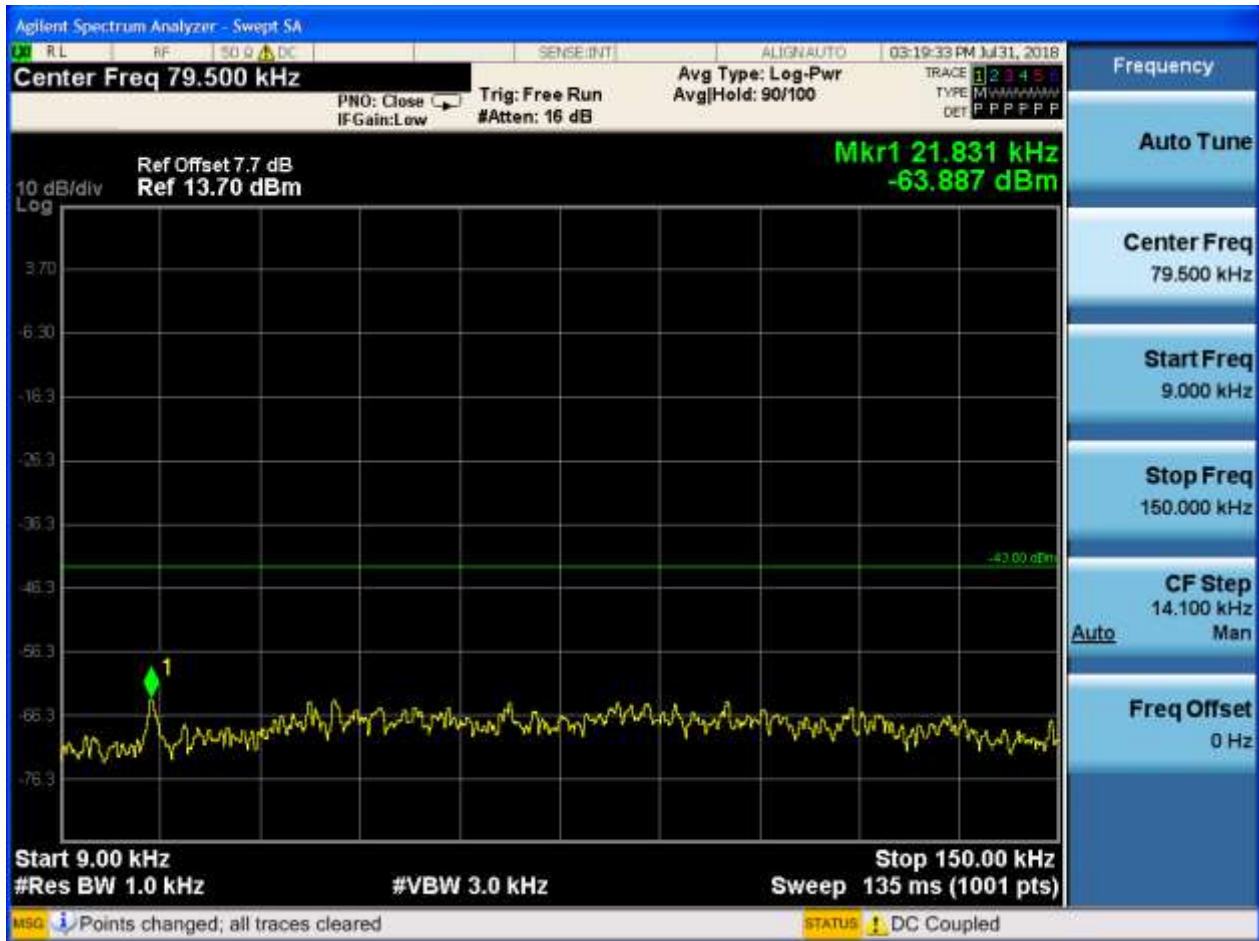






6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









6.1.1.1.5 Test Bandwidth = 15

6.1.1.1.5.1 Test Channel = LCH

6.1.1.1.5.1.1 Test RB = RB1#0



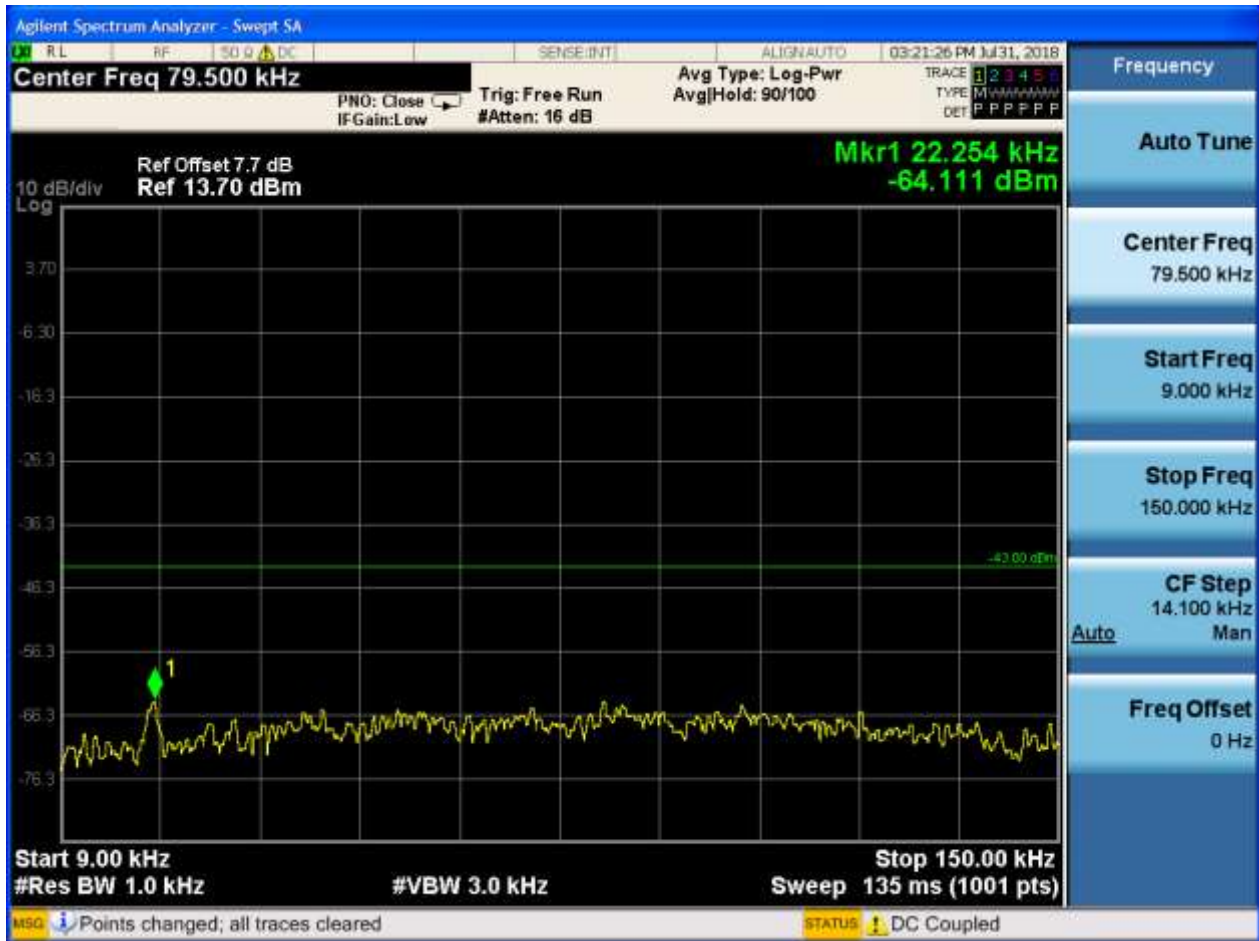






6.1.1.1.5.2 Test Channel = MCH

6.1.1.1.5.2.1 Test RB = RB1#0









6.1.1.1.5.3 Test Channel = HCH

6.1.1.1.5.3.1 Test RB = RB1#0



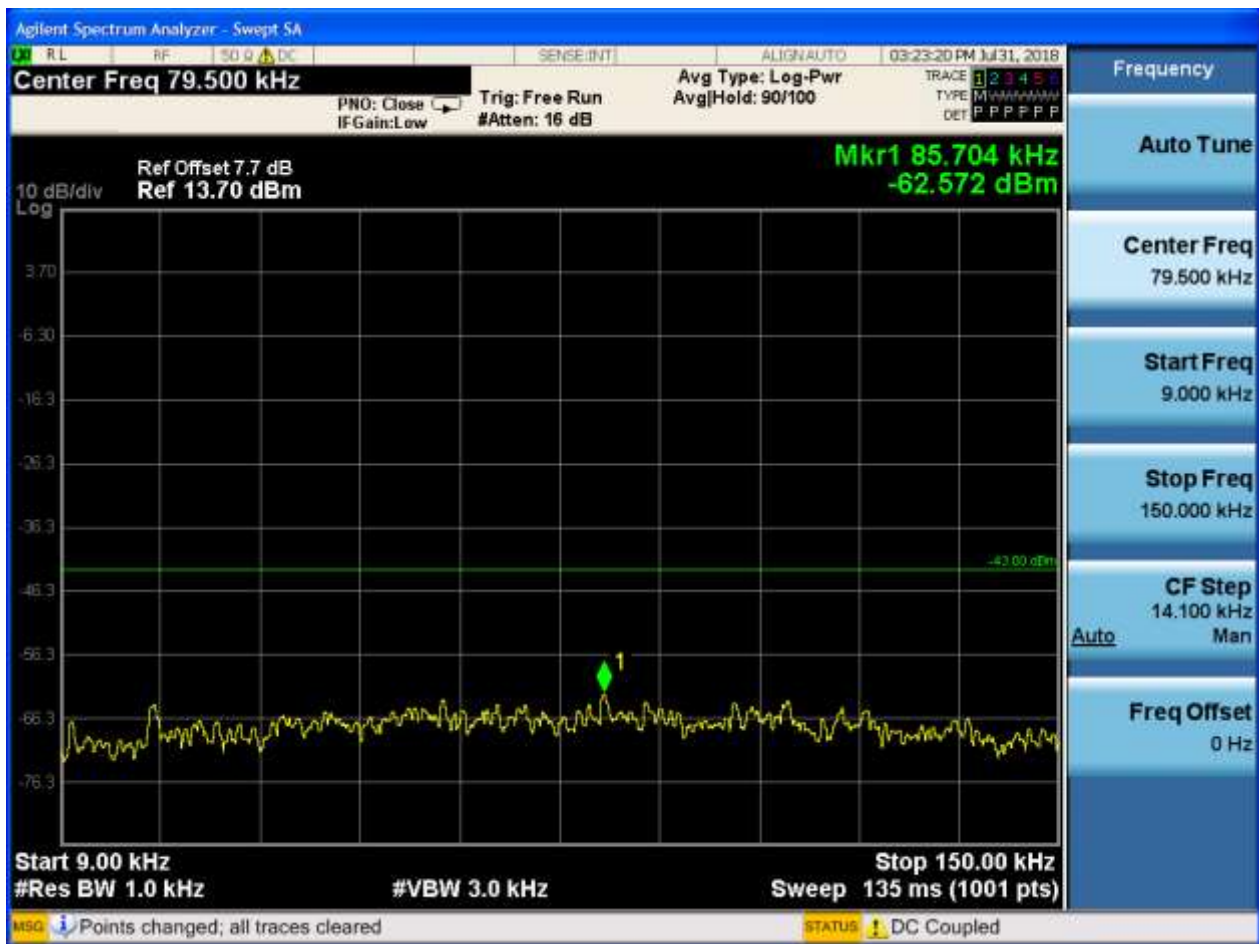




6.1.1.1.6 Test Bandwidth = 20

6.1.1.1.6.1 Test Channel = LCH

6.1.1.1.6.1.1 Test RB = RB1#0









6.1.1.1.6.2 Test Channel = MCH

6.1.1.1.6.2.1 Test RB = RB1#0









6.1.1.1.6.3 Test Channel = HCH

6.1.1.1.6.3.1 Test RB = RB1#0

