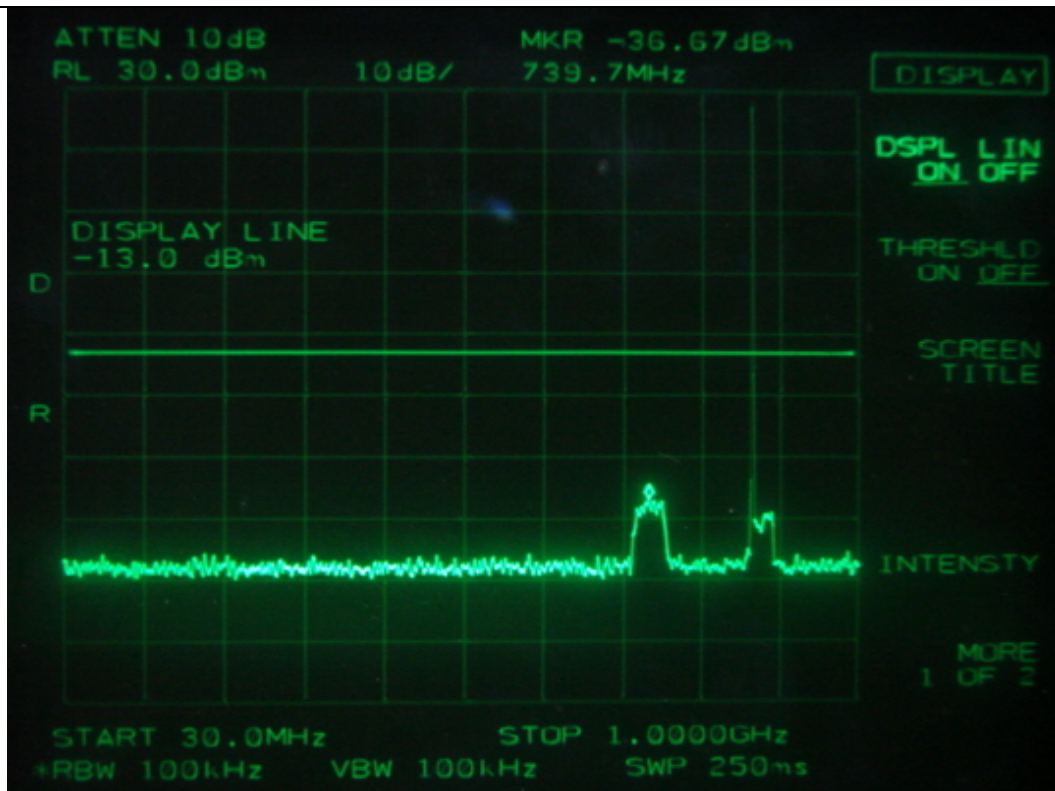
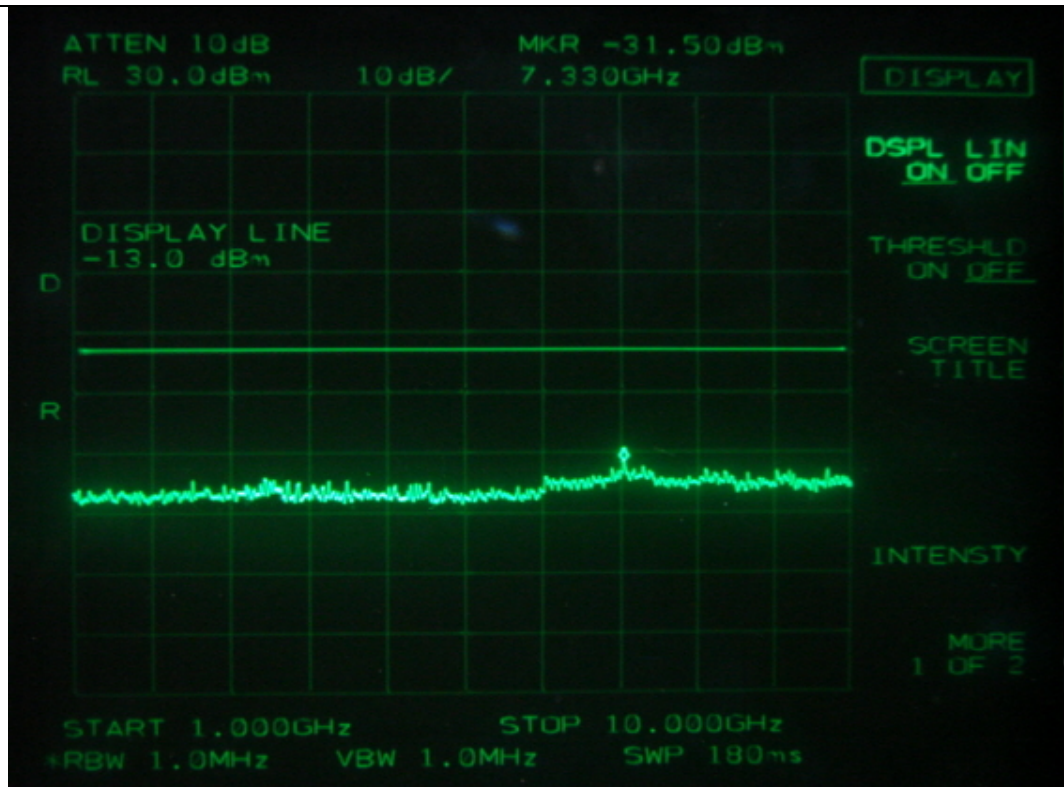
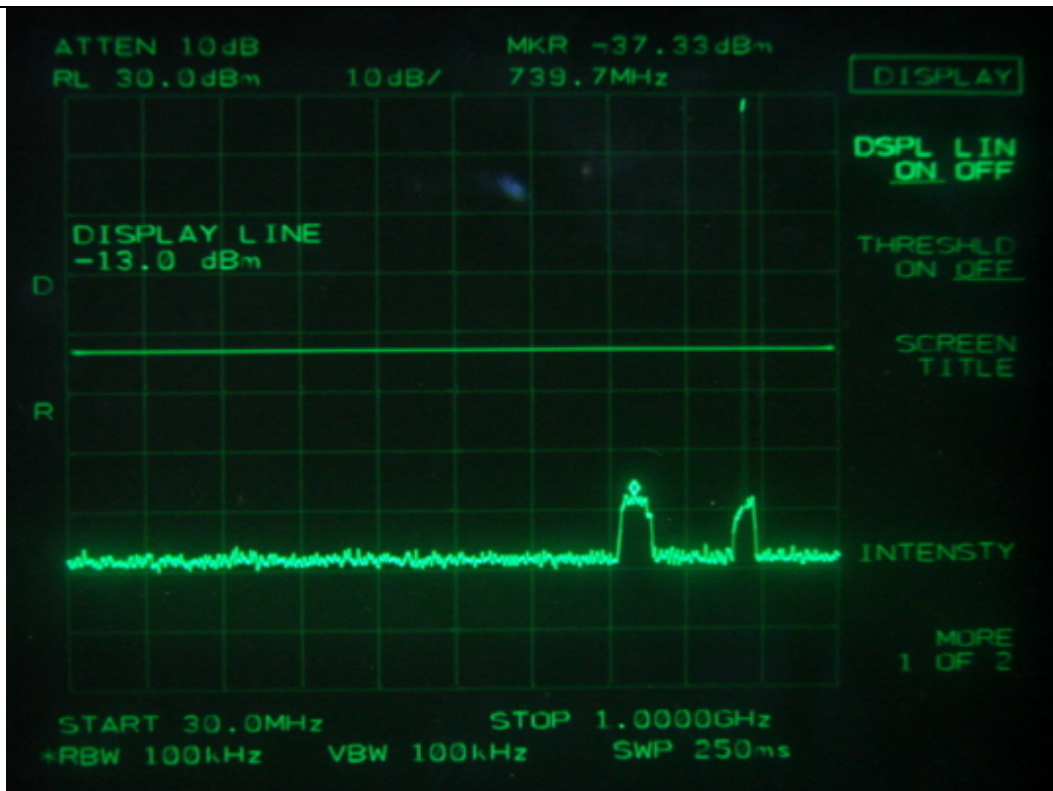




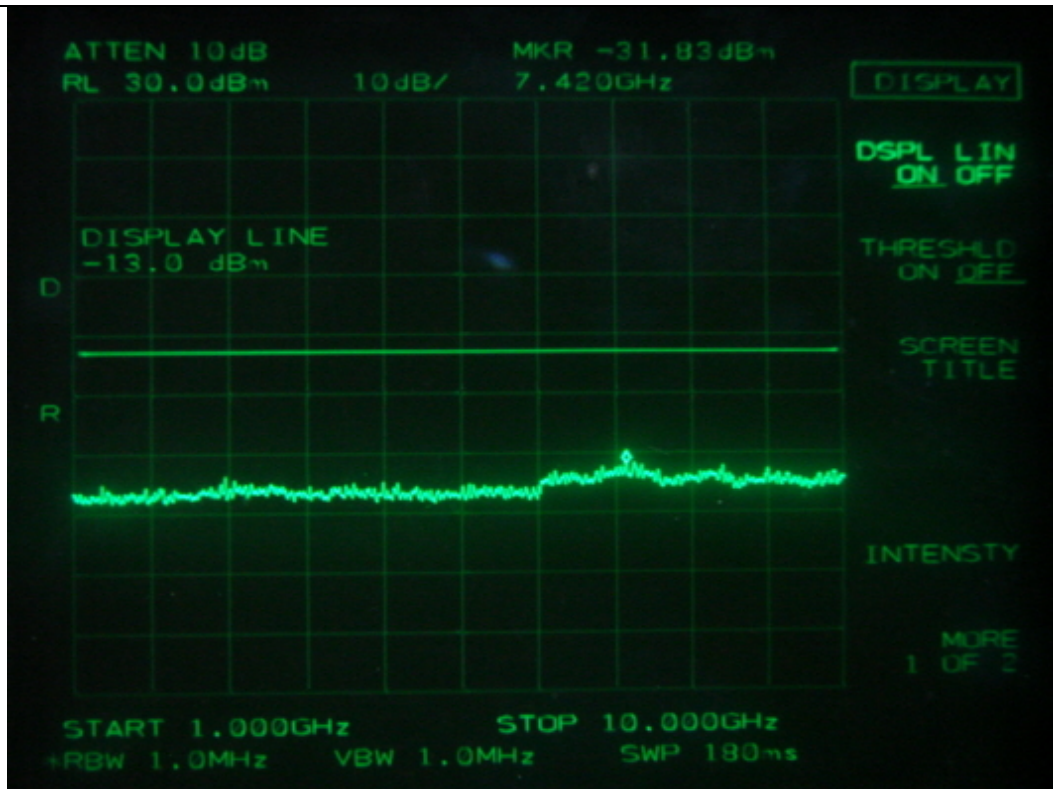
EDGE – Low Channel



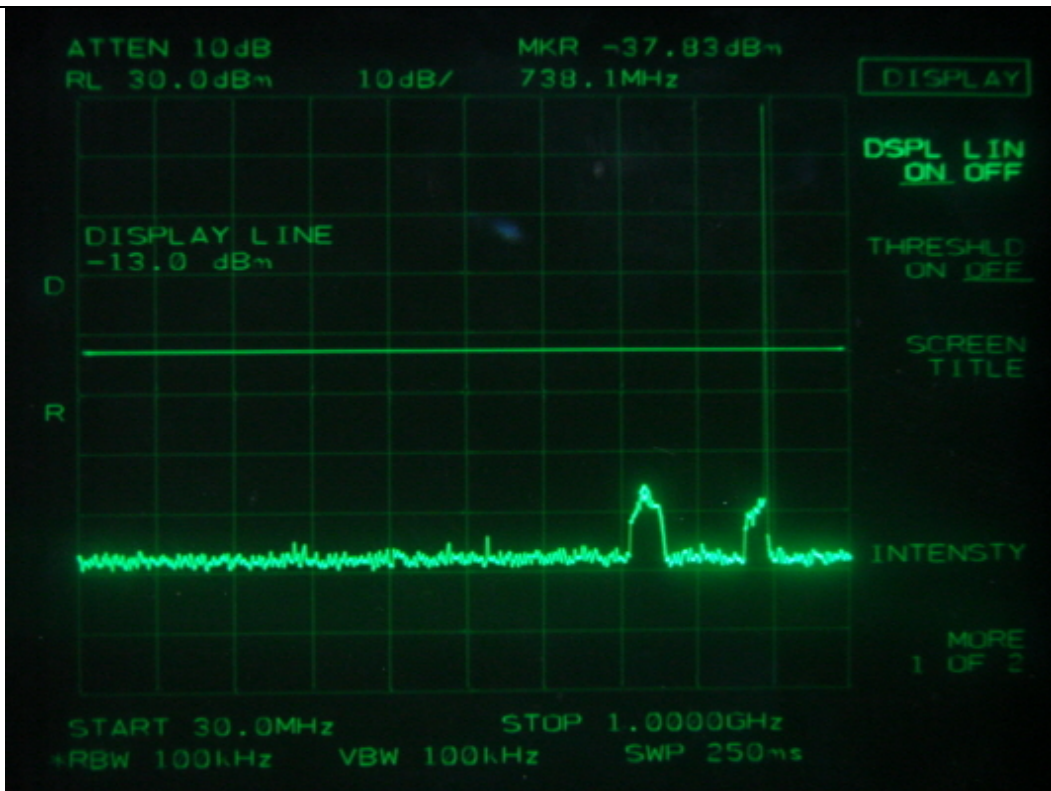
EDGE – Low Channel



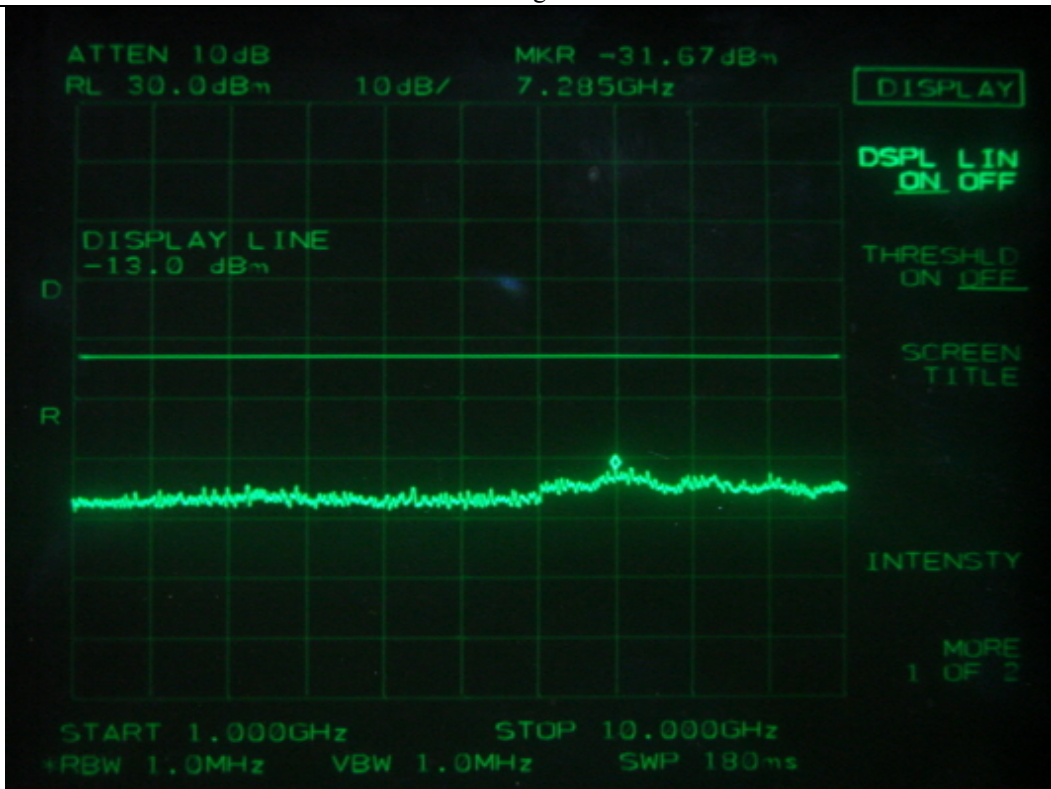
EDGE – Middle Channel



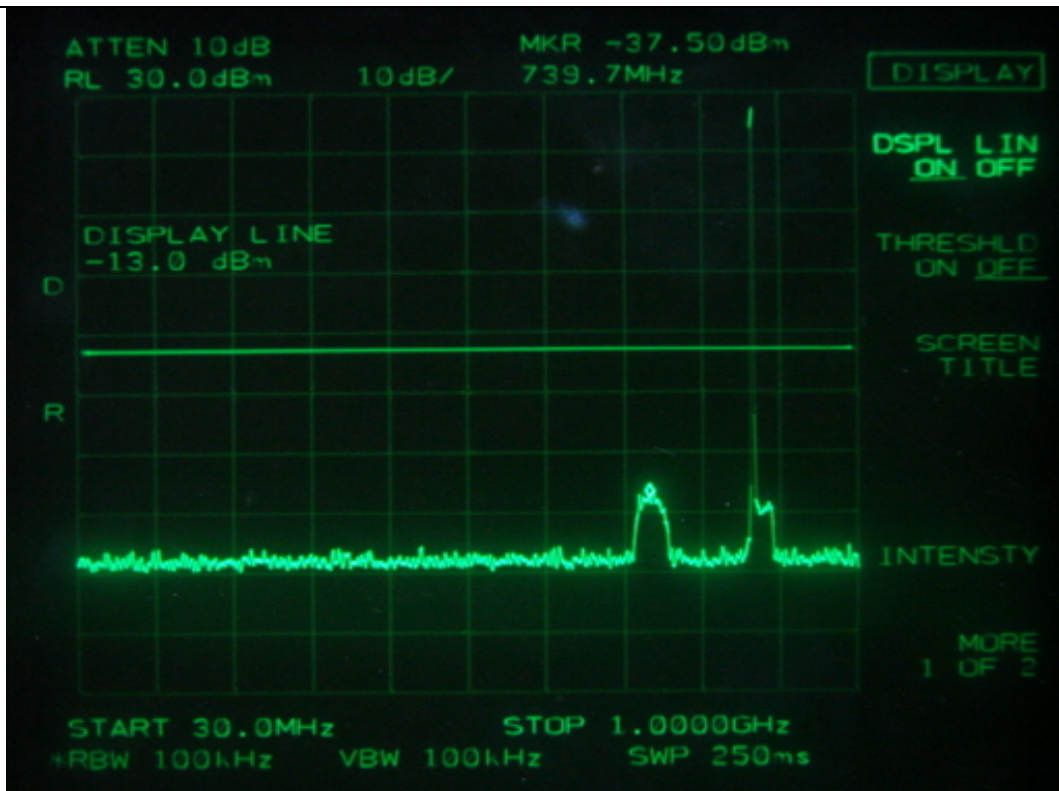
EDGE – Middle Channel



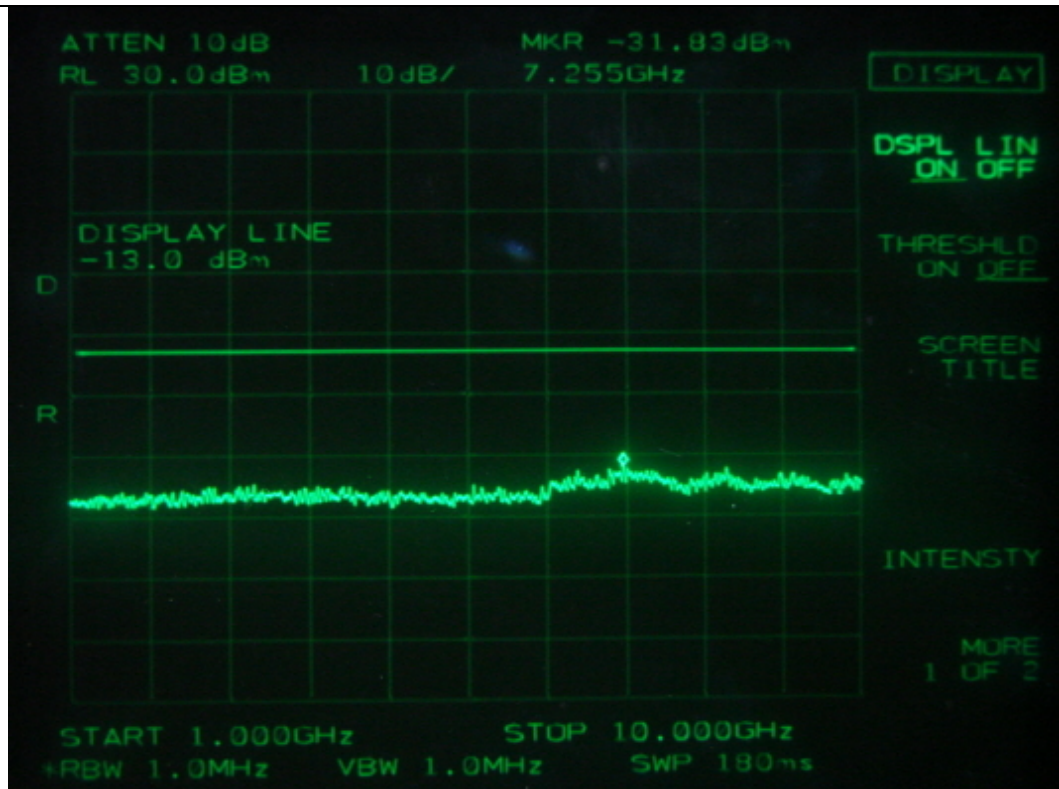
EDGE – High Channel



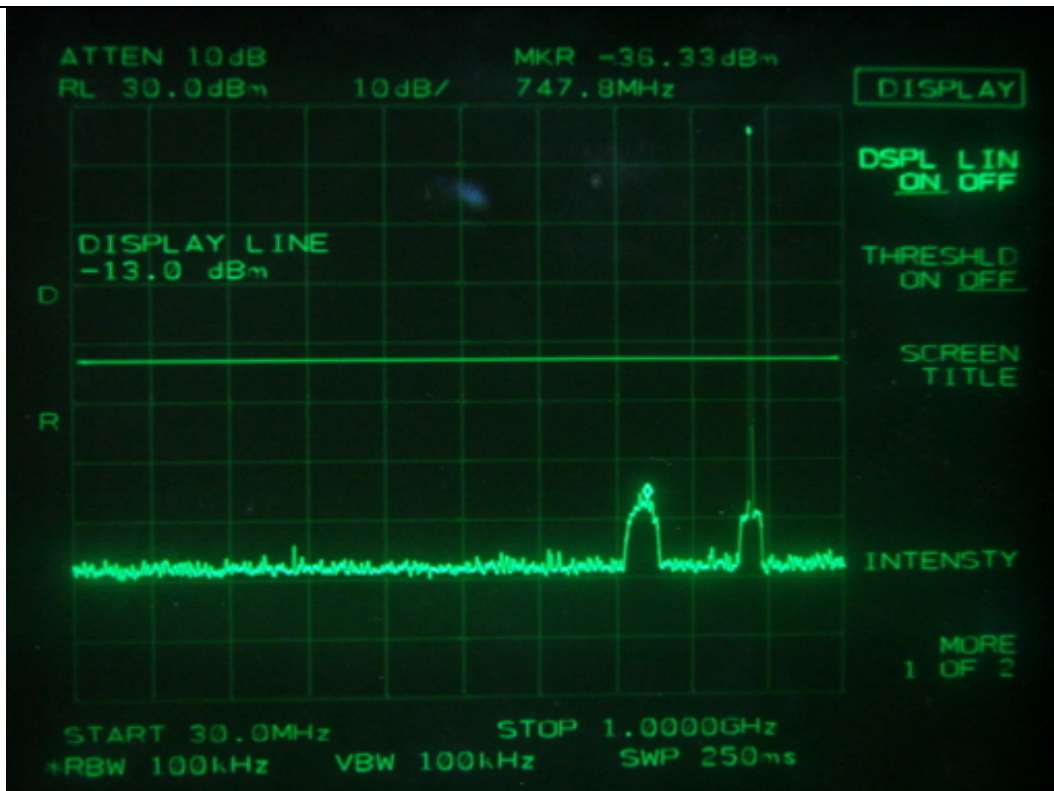
EDGE – High Channel



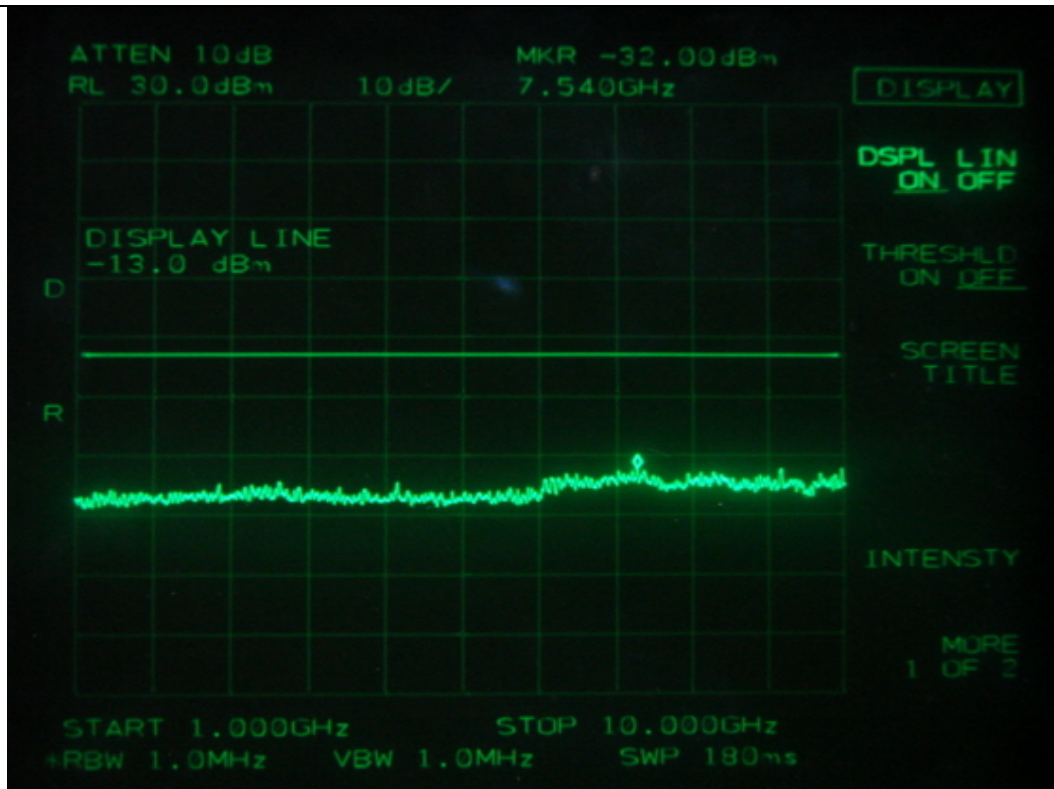
CDMA – Low Channel



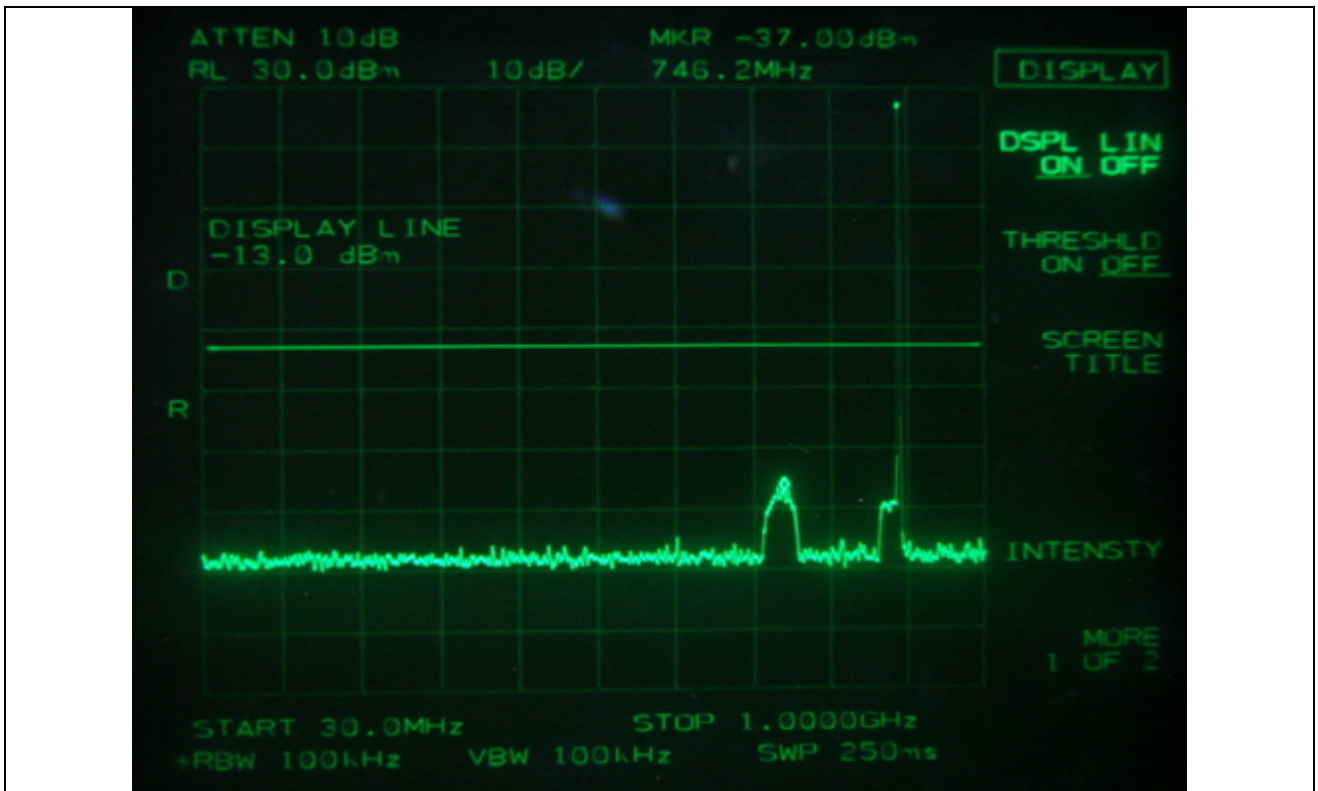
CDMA – Low Channel



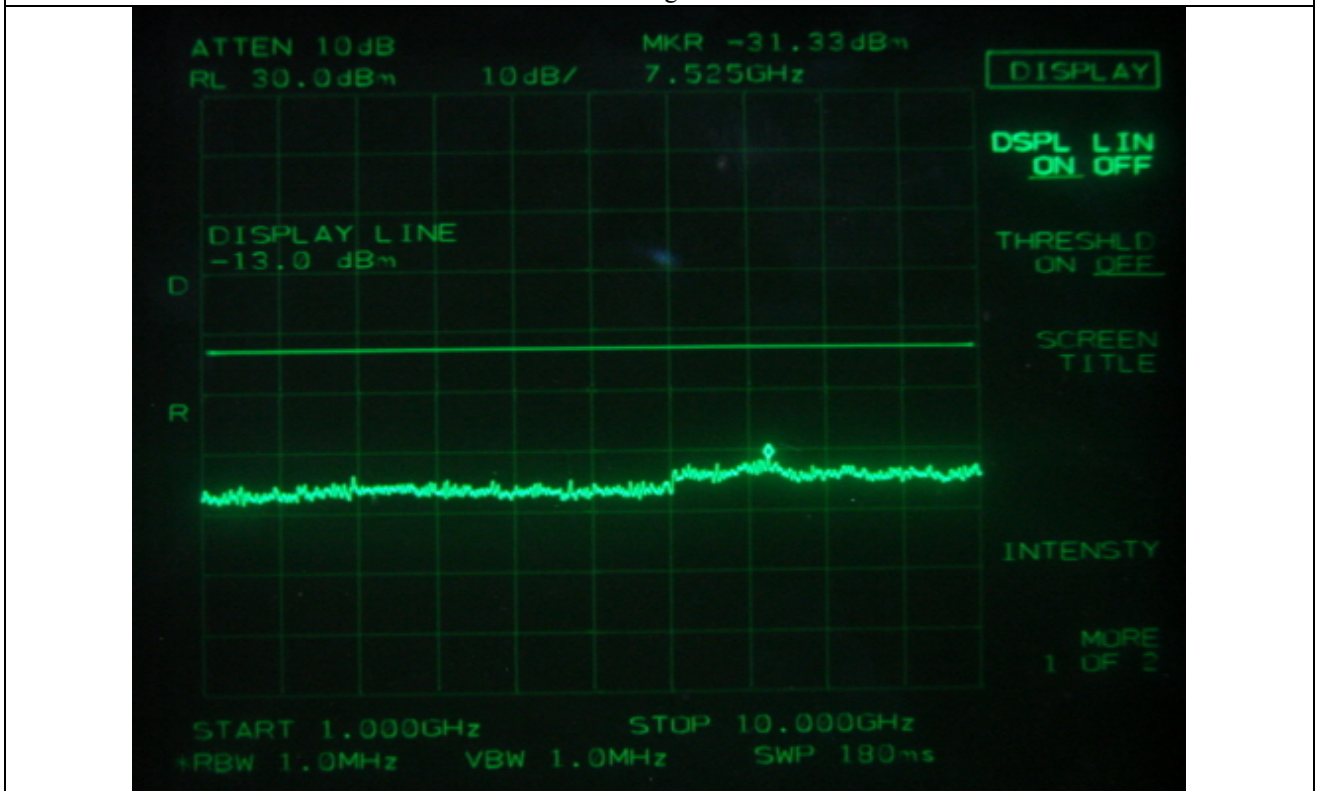
CDMA – Middle Channel



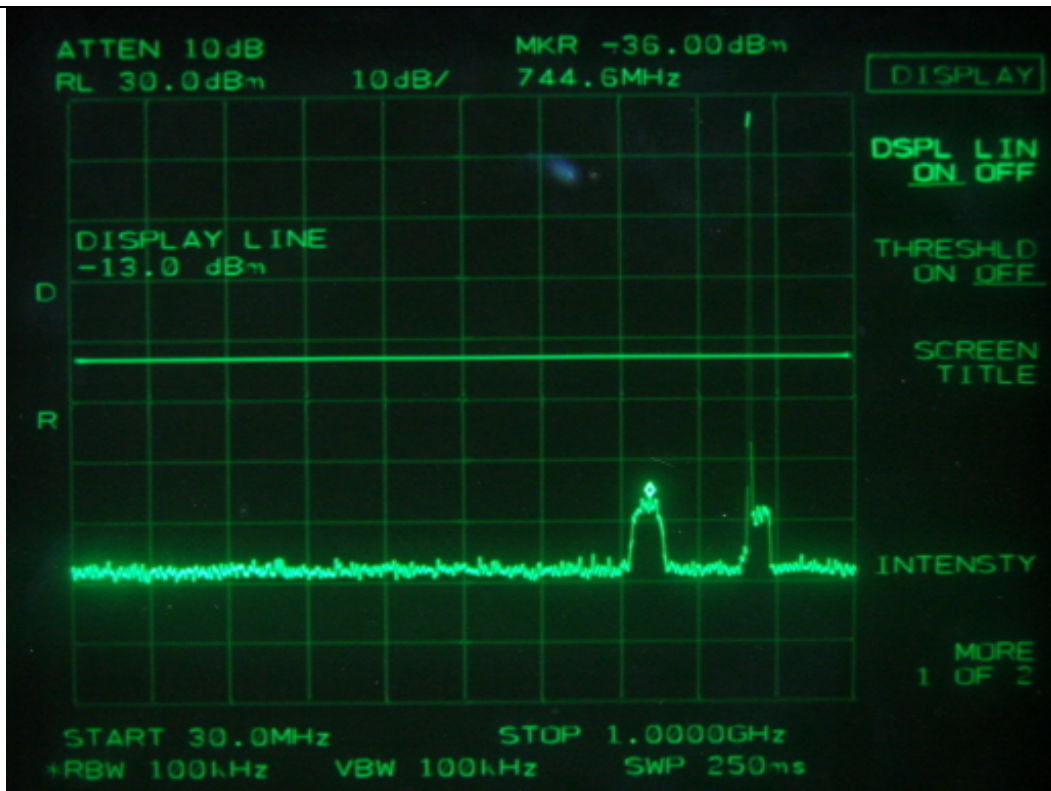
CDMA – Middle Channel



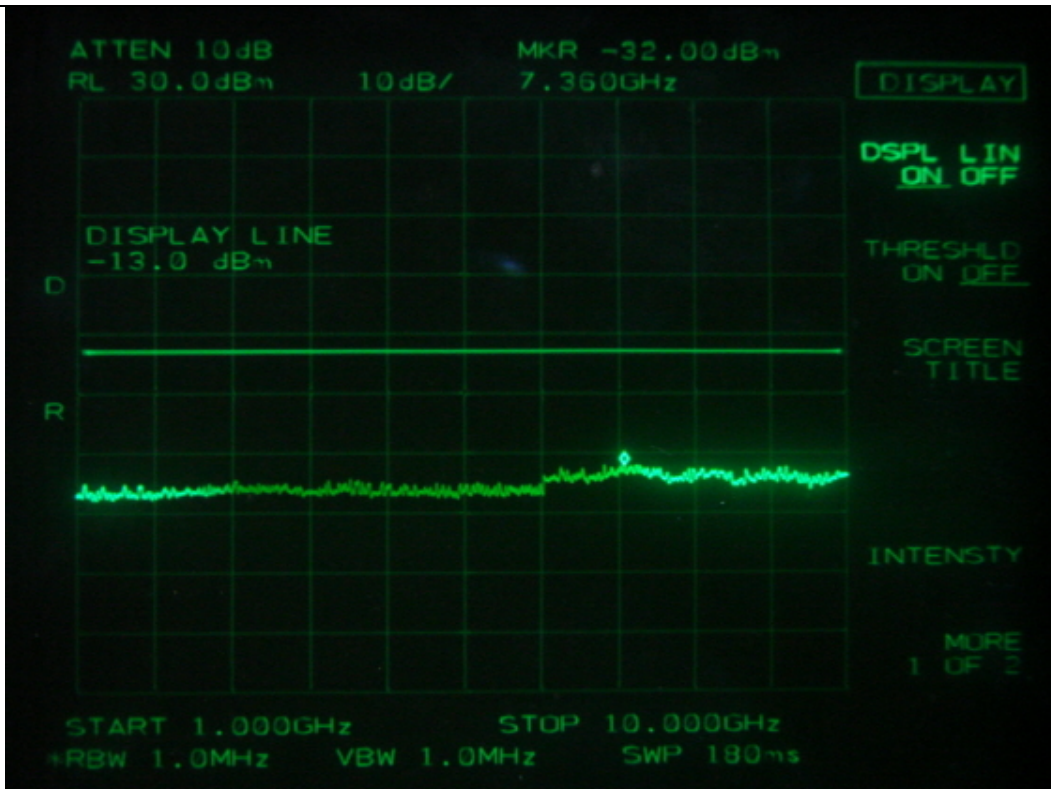
CDMA – High Channel



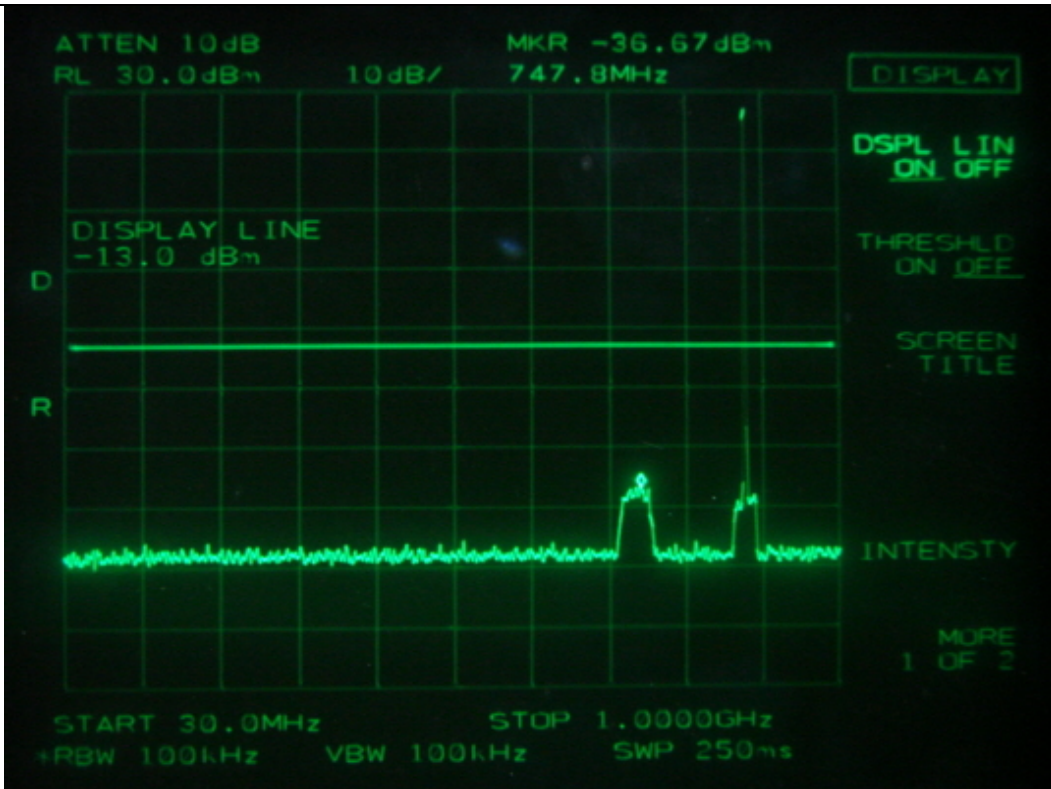
CDMA – High Channel



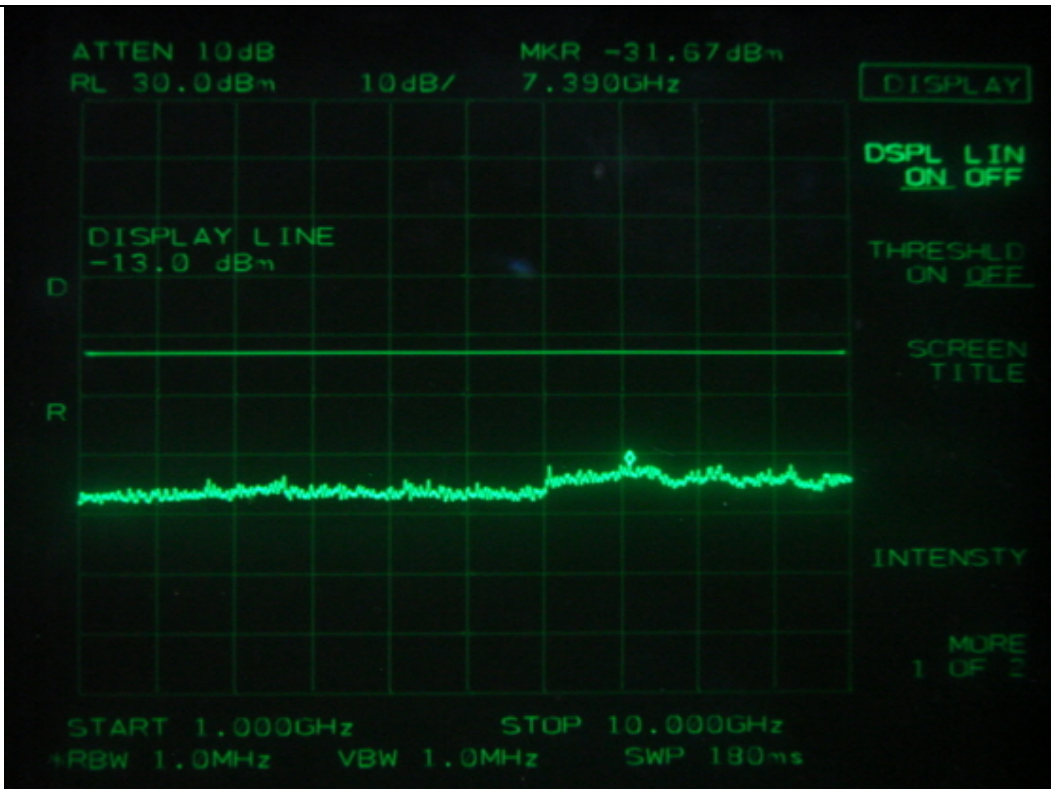
1xEVDO - Low Channel



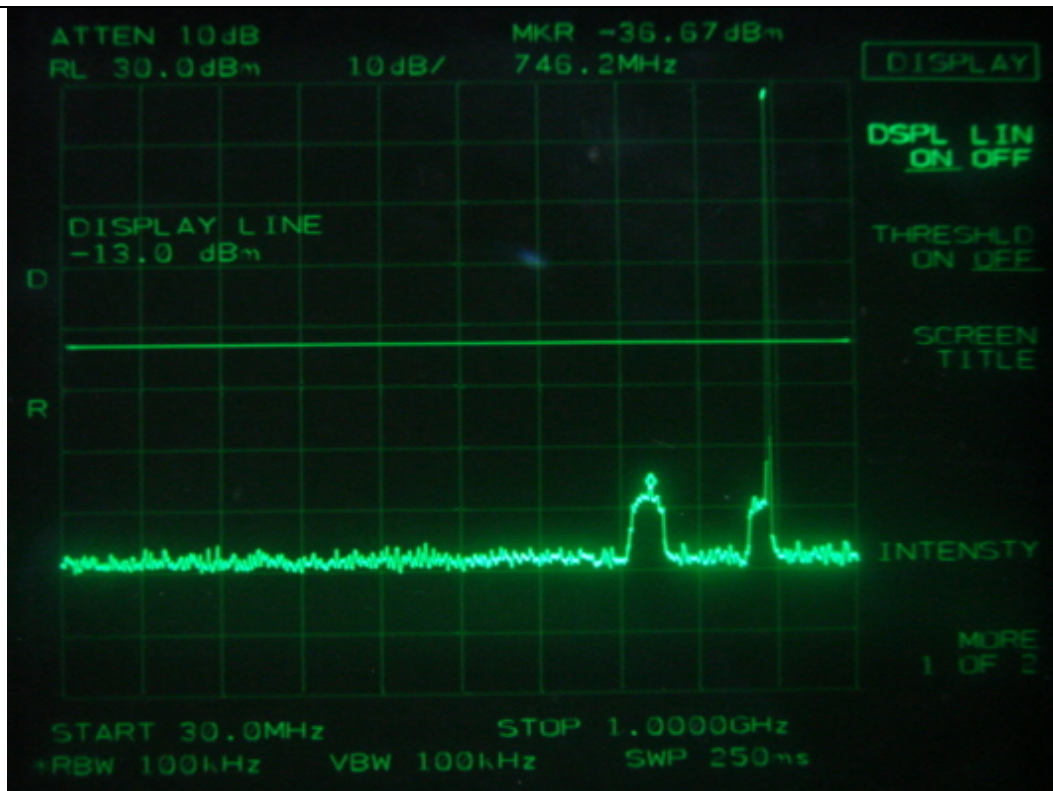
1xEVDO - Low Channel



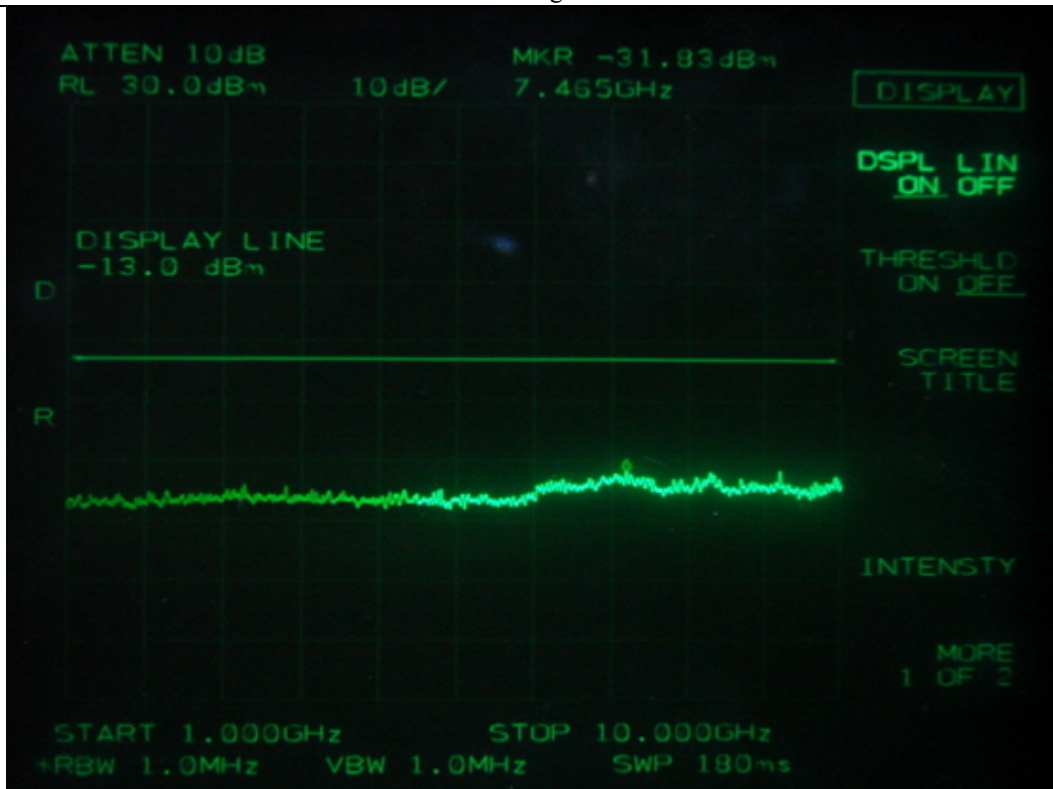
1xEVDO - Middle Channel



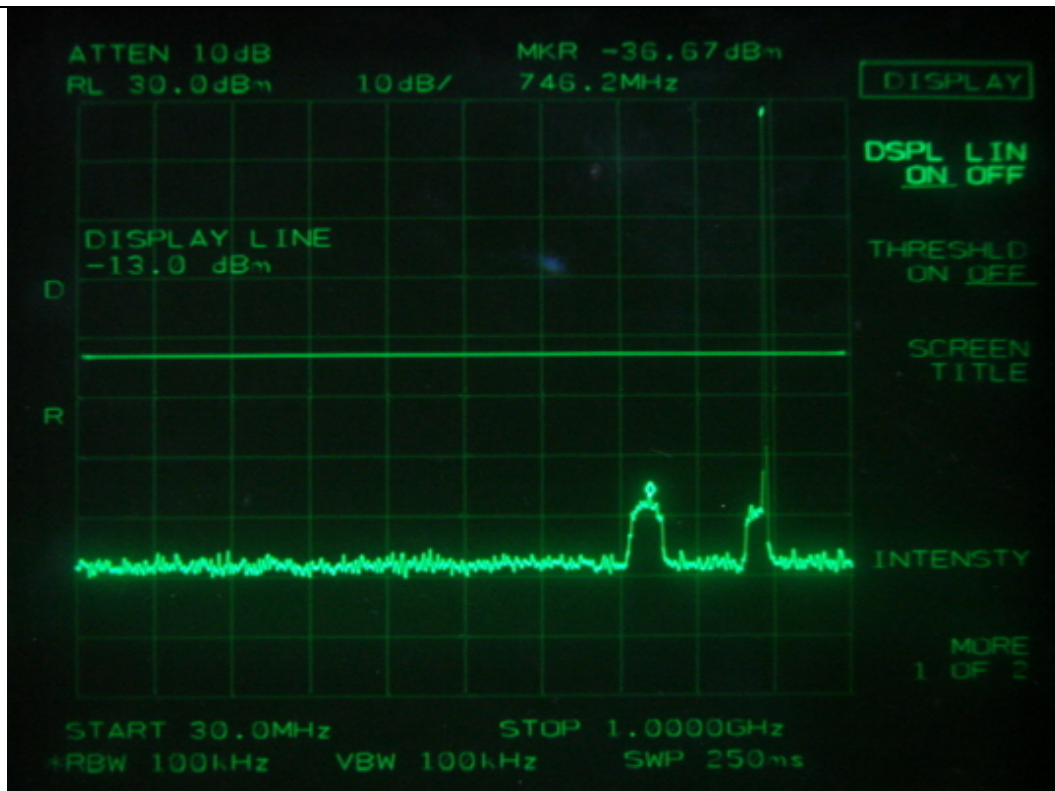
1xEVDO - Middle Channel



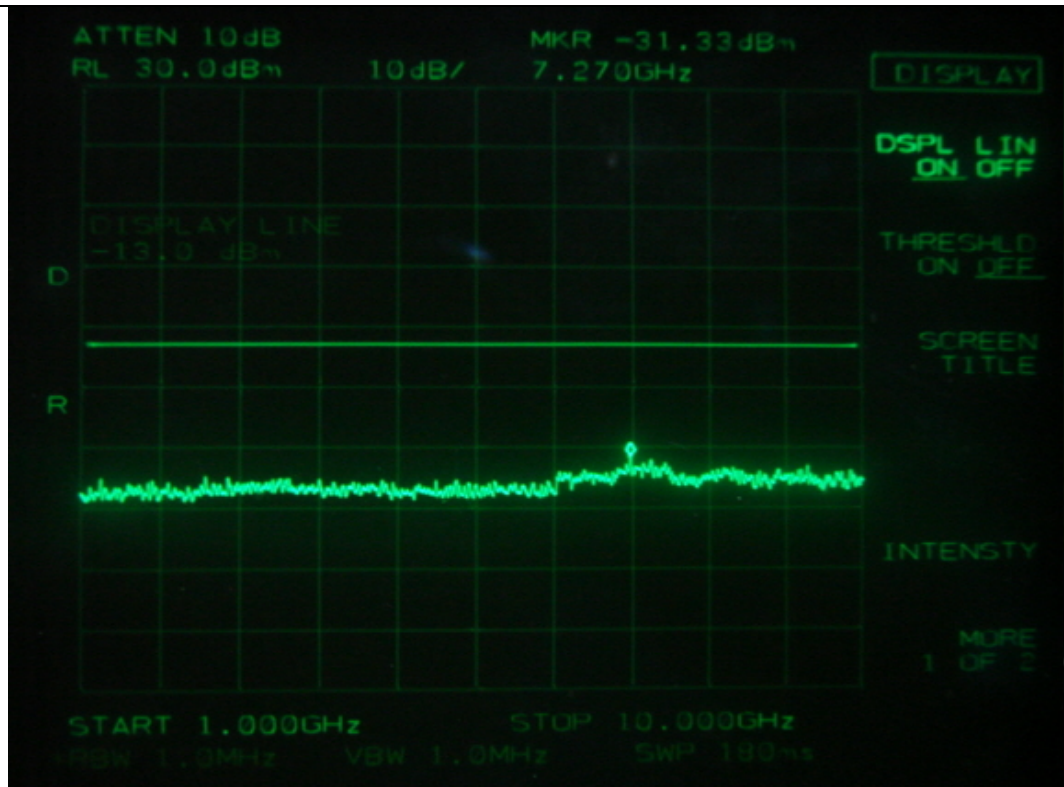
1xEVDO – High Channel



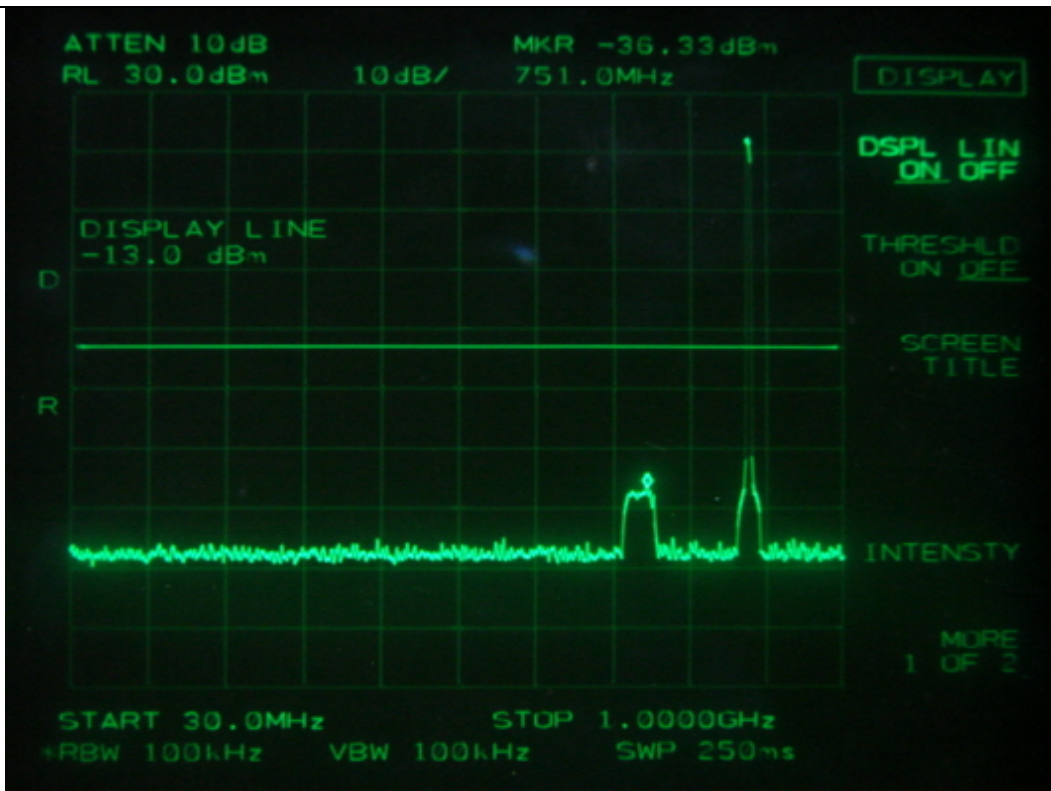
1xEVDO – High Channel



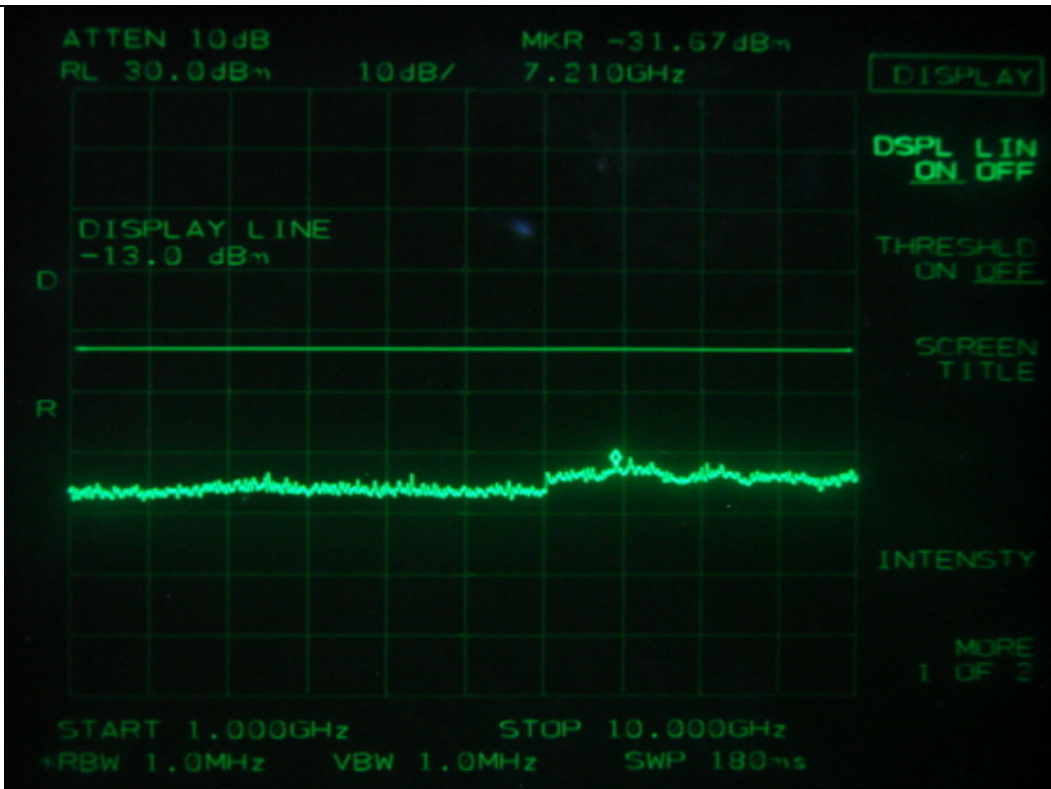
WCDMA – Low Channel



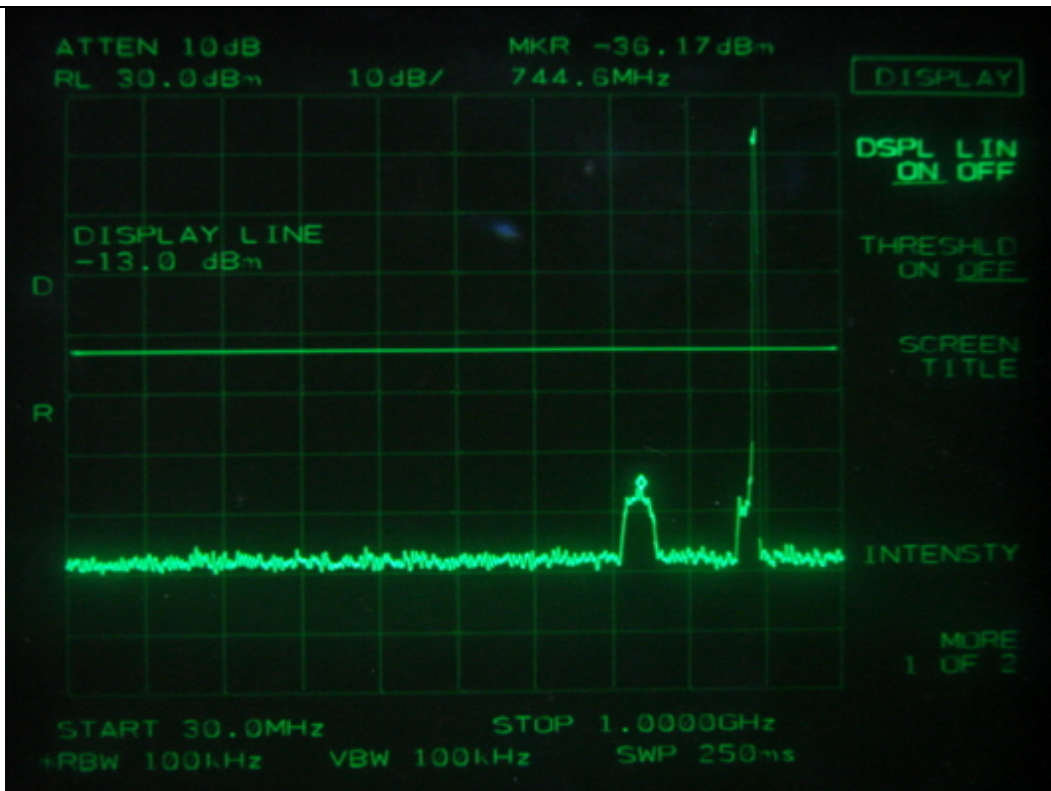
WCDMA – Low Channel



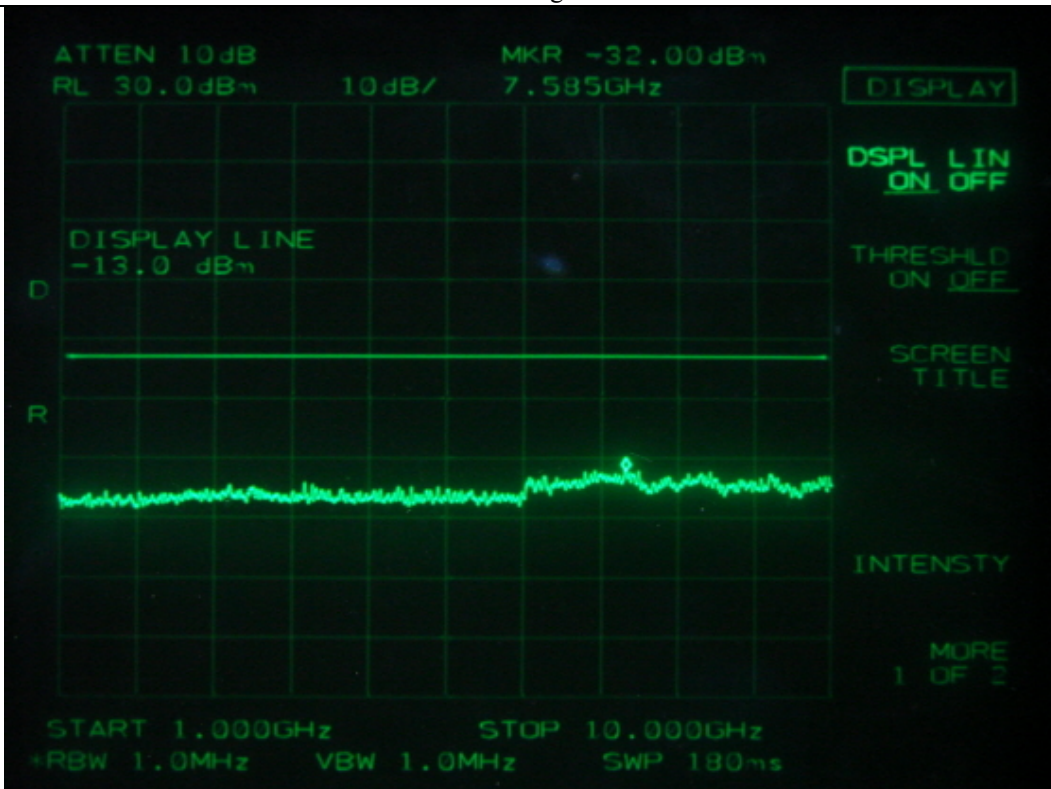
WCDMA – Middle Channel



WCDMA – Middle Channel



WCDMA – High Channel



WCDMA – High Channel

7.4.2 Test Result for Part 27 Subpart C §27.53 (c)(1)

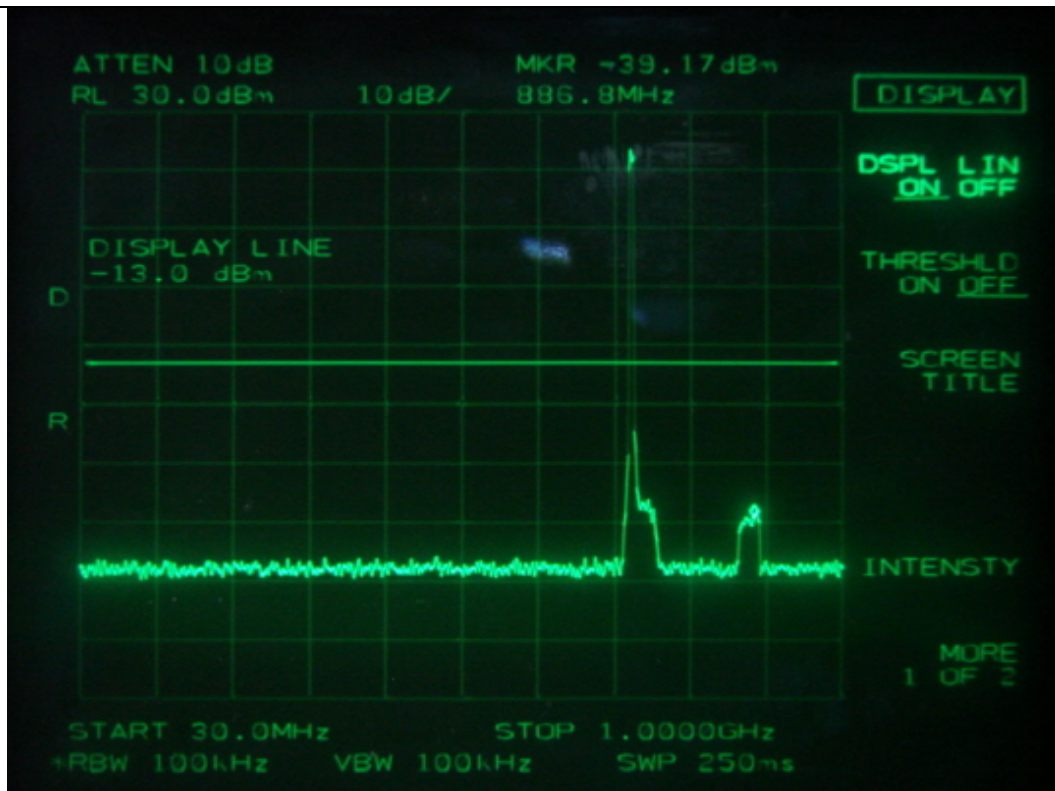
-. Test Date : May 16, 2012
-. Frequency range : 30 MHz ~ 10 GHz
-. Result : PASSED

Modulation	Channel	Measured Frequency (MHz)	Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
LTE (5 MHz)	Low	886.800	-39.17	0.50	-38.67	-13.00	-25.67
		7 330.000	-31.83	3.50	-28.33		-15.33
	Middle	883.600	-38.83	0.50	-38.33	-13.00	-25.33
		7 585.000	-32.67	3.50	-29.17		-16.17
	High	890.100	-38.17	0.50	-37.67	-13.00	-24.67
		7 435.000	-32.00	3.50	-28.50		-15.50
LTE (10 MHz)	Low	890.100	-37.33	0.50	-36.83	-13.00	-23.83
		7 390.000	-31.50	3.50	-28.00		-15.00
	Middle	890.100	-36.67	0.50	-36.17	-13.00	-23.17
		7 360.000	-30.67	3.50	-27.17		-14.17
	High	869.100	-36.67	0.50	-36.17	-13.00	-23.17
		7 390.000	-31.33	3.50	-27.83		-14.83

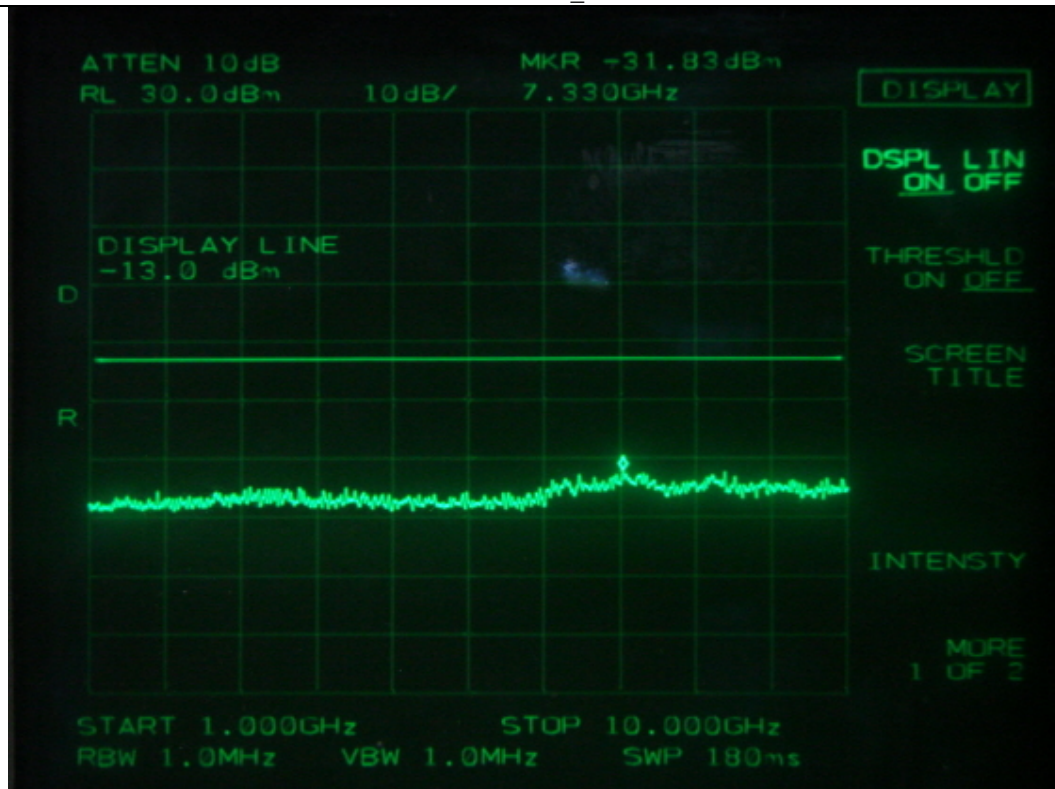
From CFR 27.53(c)(1): On any frequency outside the 746 MHz ~ 758 MHz band, the power of any emission shall be attenuated out side the band below the transmitter power (P) by at least $43 + 10\log(P)$ dB, resulting in a limit of -13 dBm.



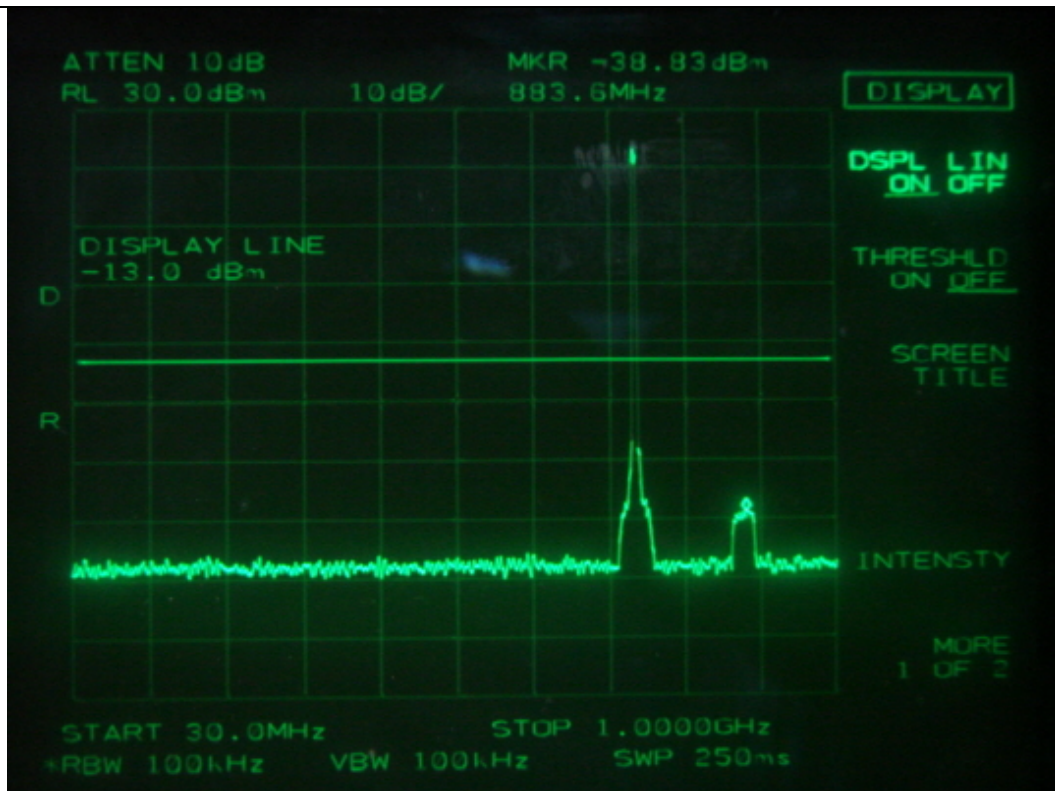
Tested by: Ki-Hong, Nam / Project Engineer



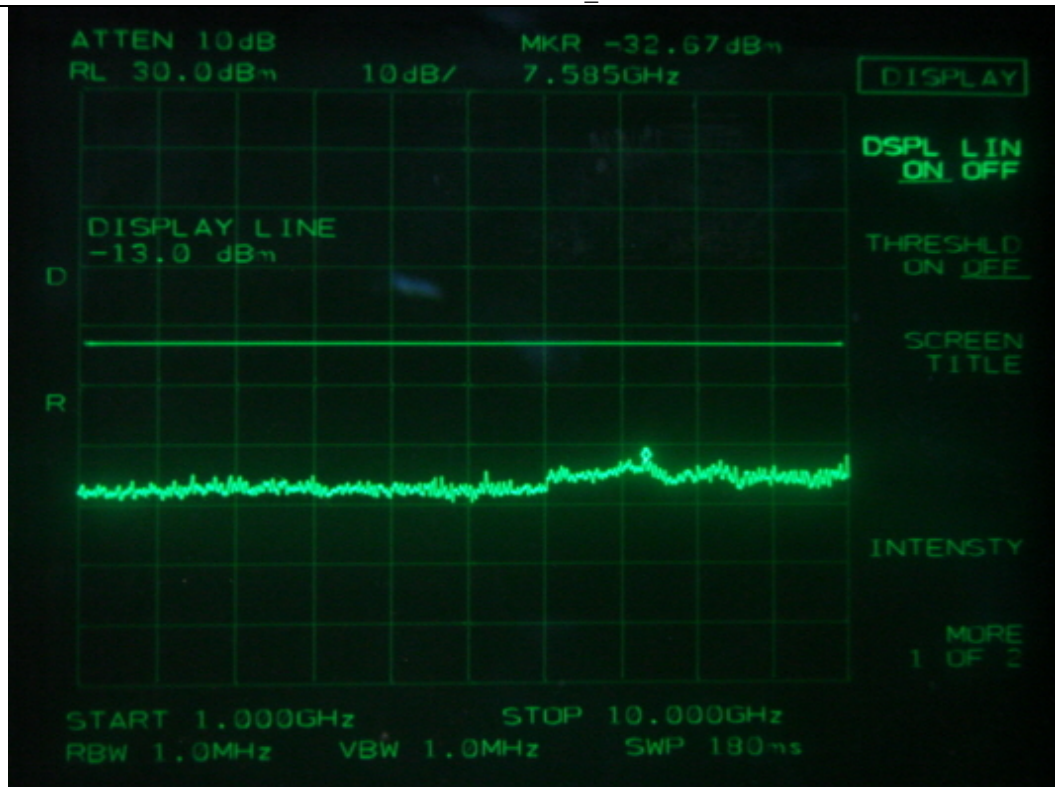
Low channel 1_5 MHz



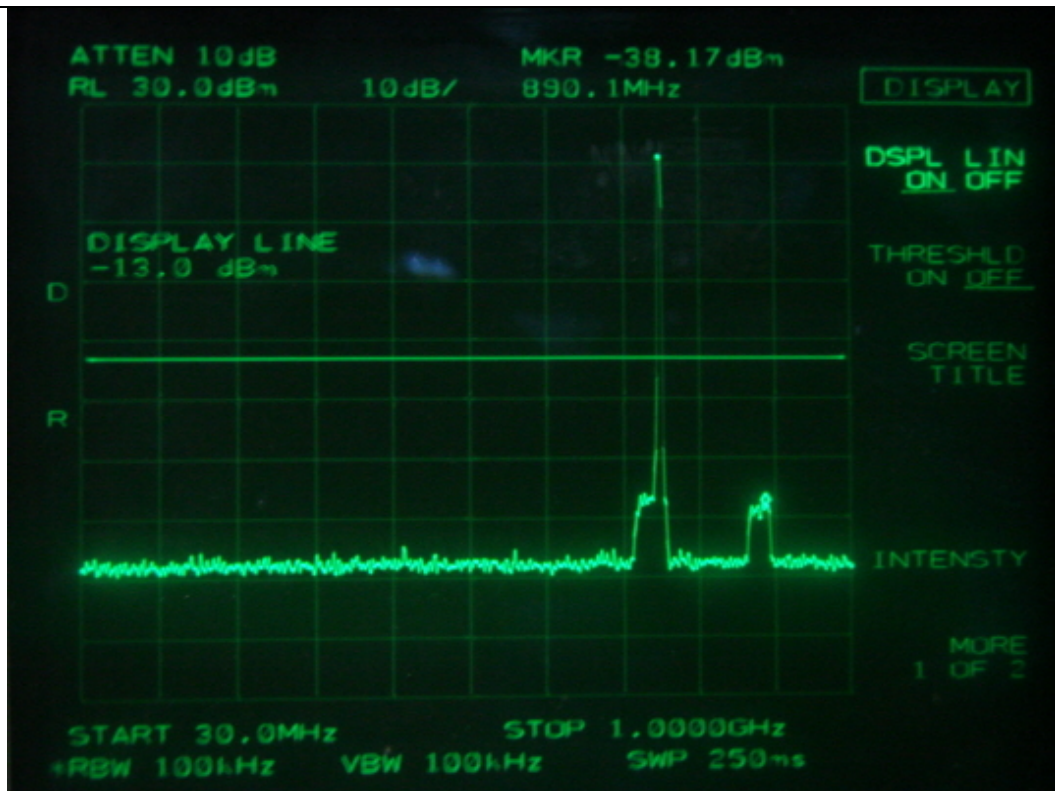
Low channel 2_5 MHz



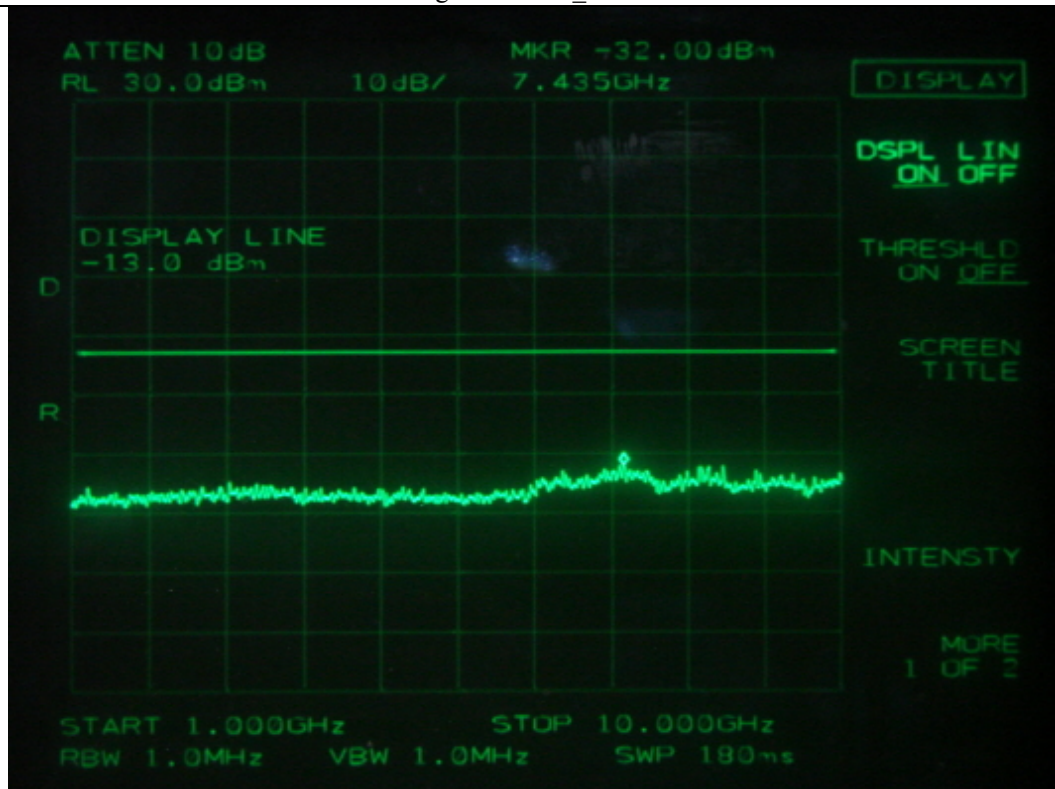
Middle channel 1_5 MHz



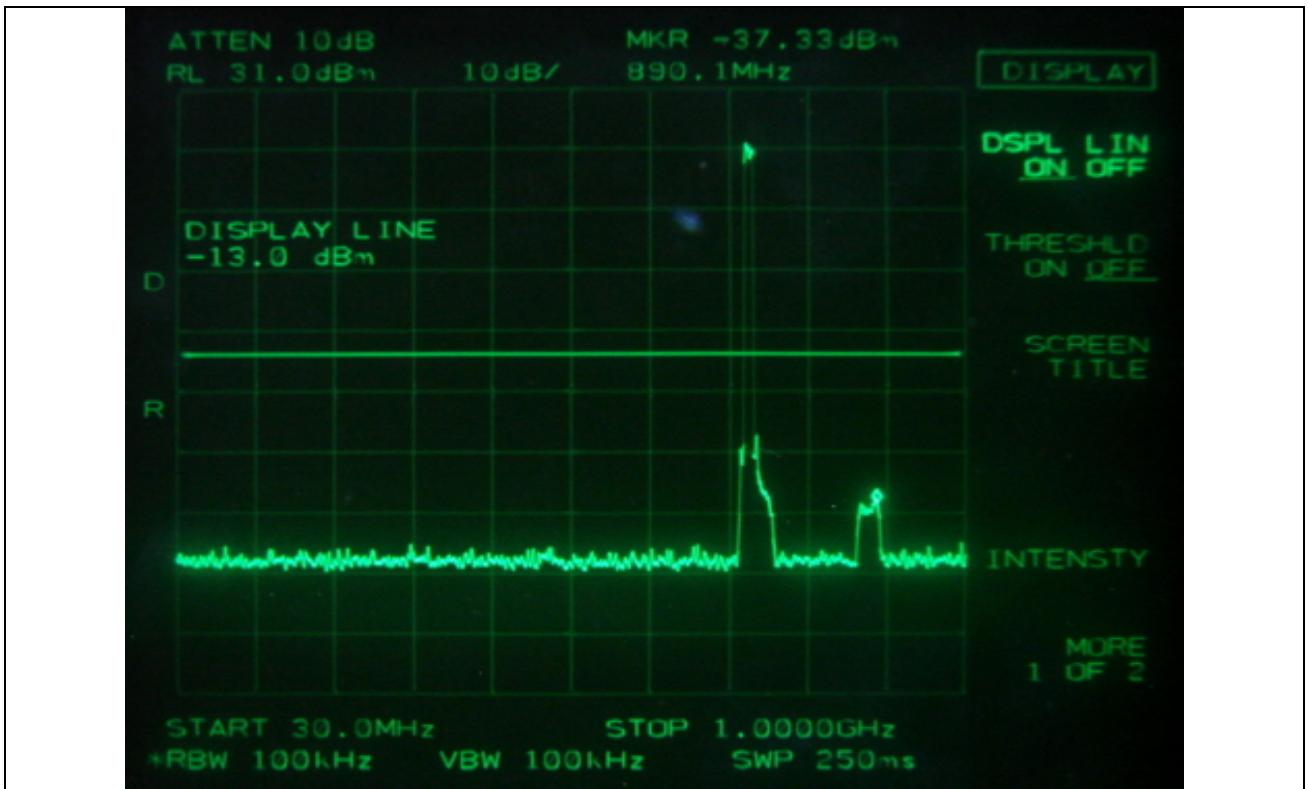
Middle channel 2_5 MHz



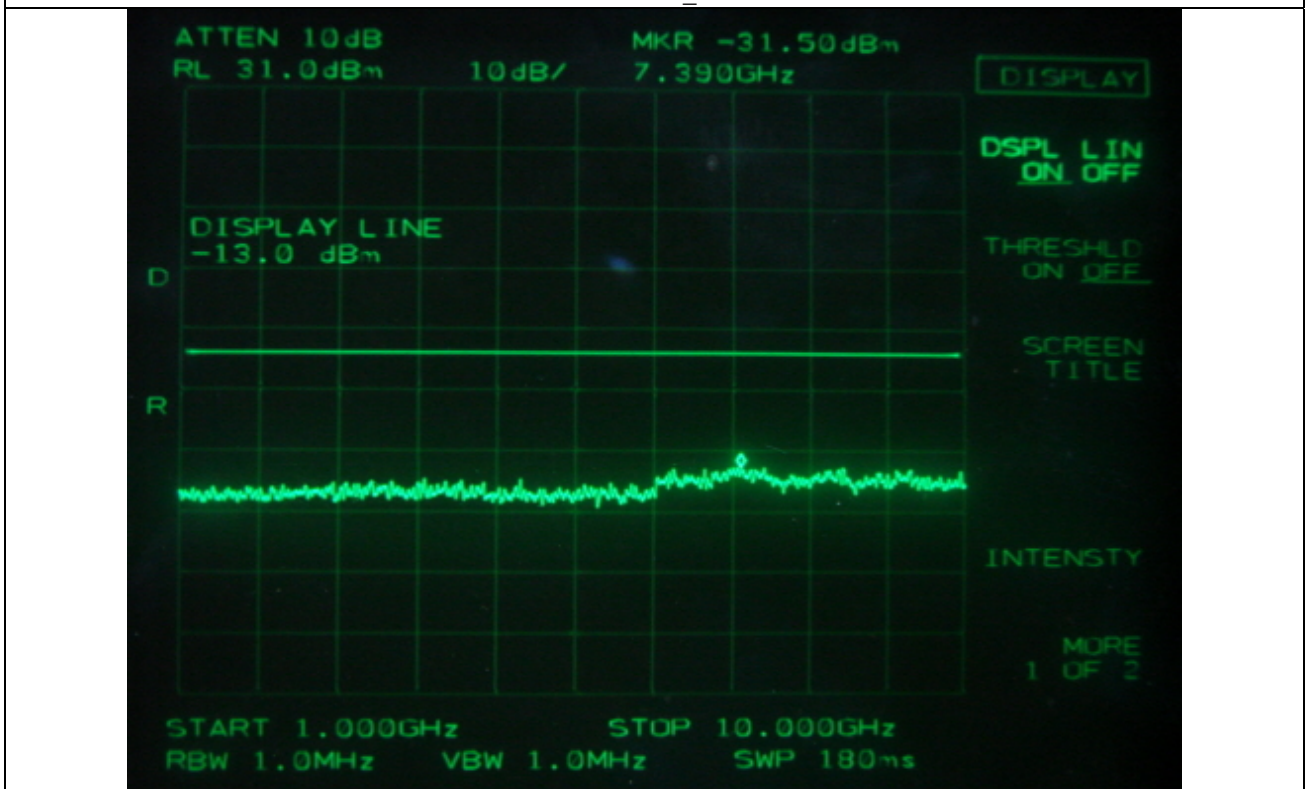
High channel 1_5 MHz



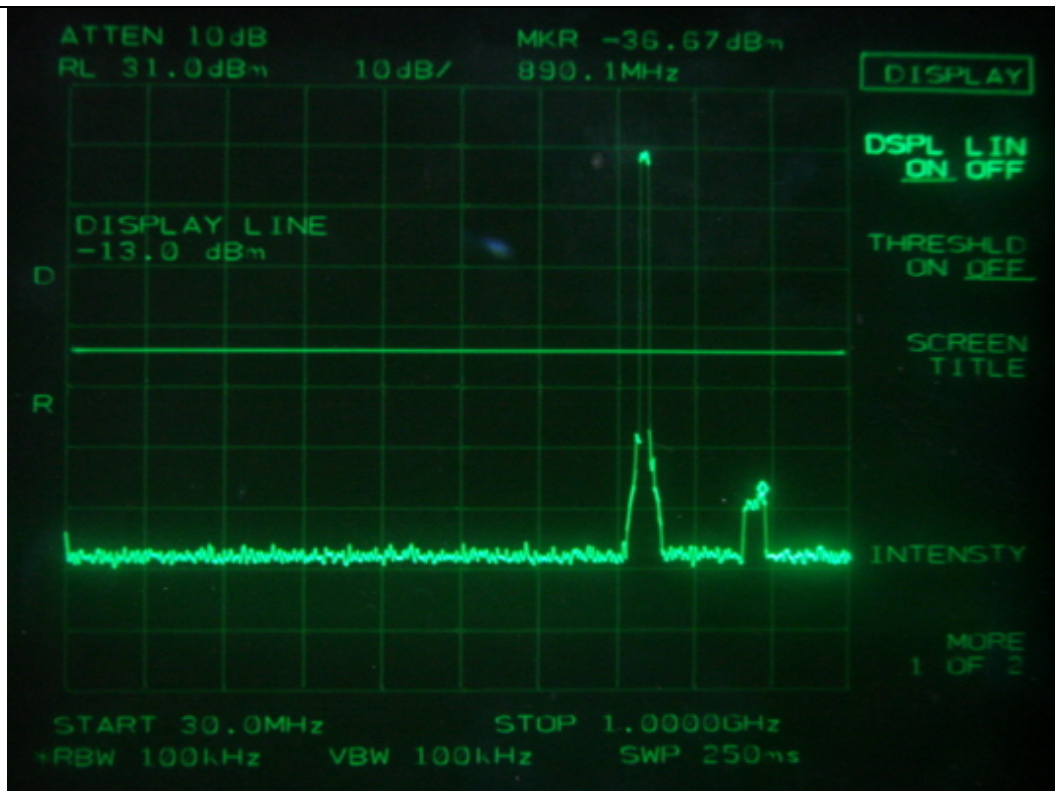
High channel 2_5 MHz



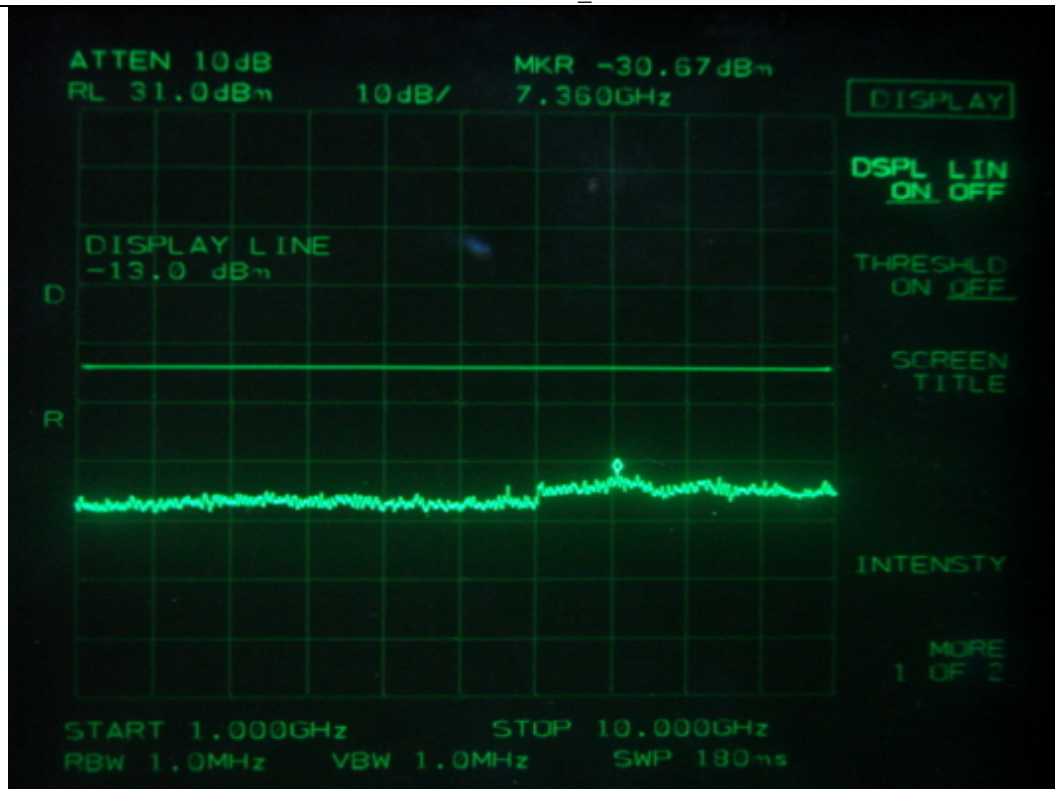
Low channel 1_10 MHz



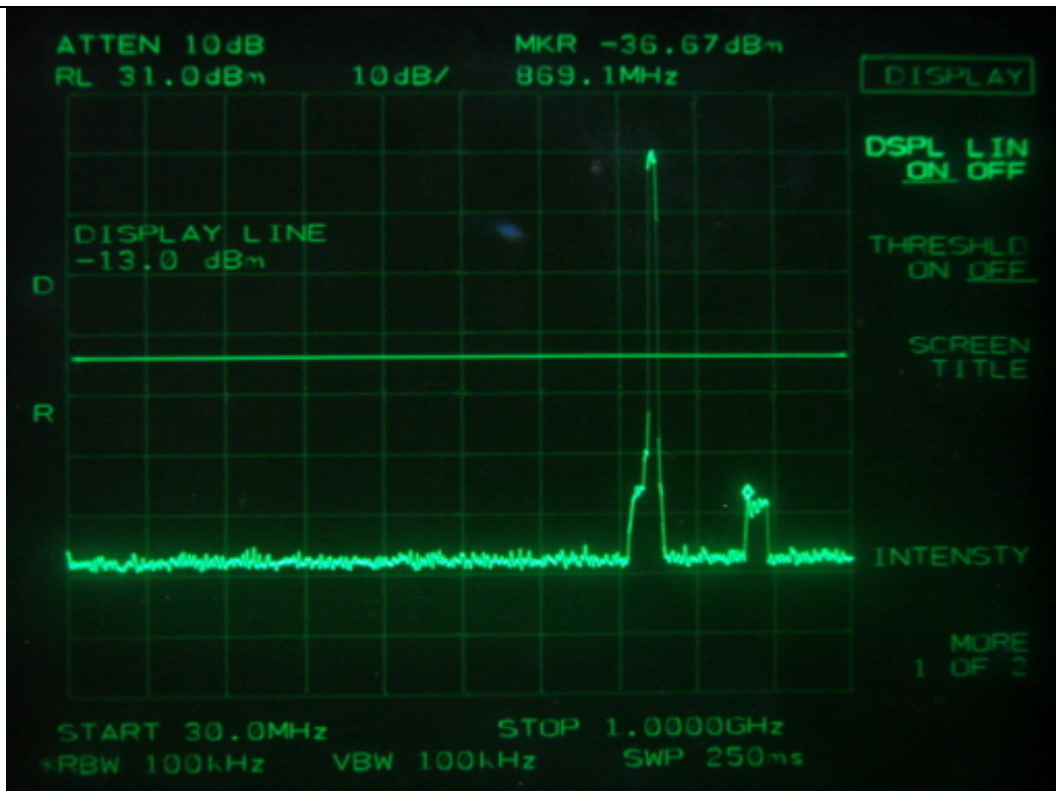
Low channel 2_10 MHz



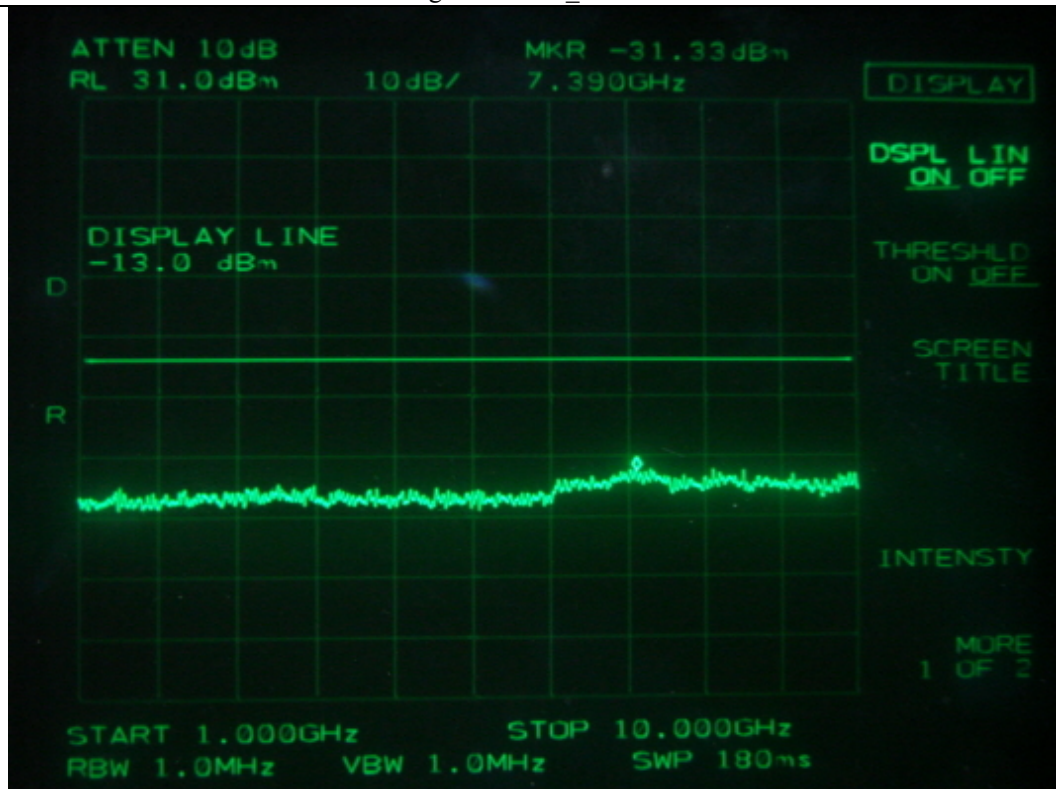
Middle channel 1_10 MHz



Middle channel 2_10 MHz



High channel 1_10 MHz



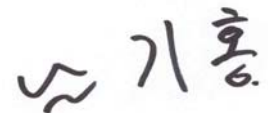
High channel 2_10 MHz

7.4.3 Test Result for Part 27 Subpart C §27.53 (c)(3)

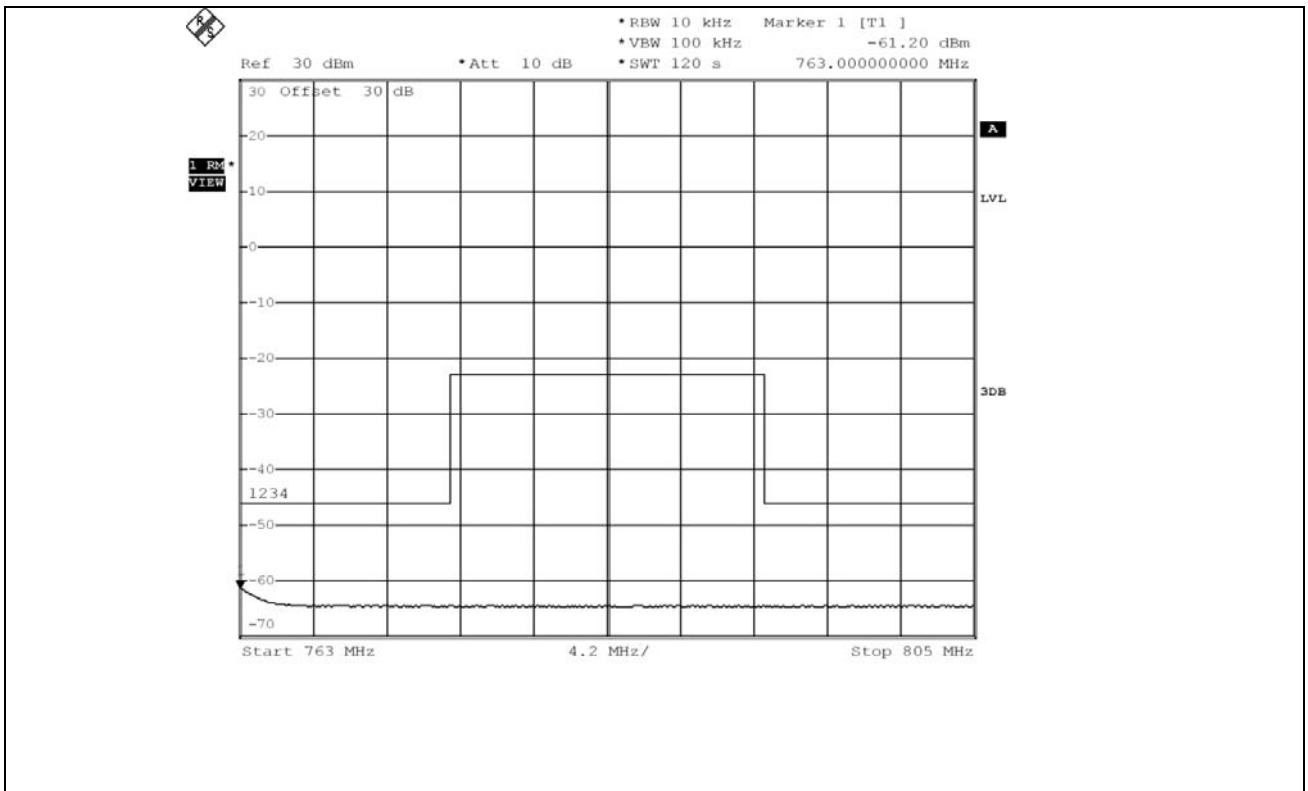
-. Test Date : May 16, 2012
-. Frequency range : 763 MHz ~ 775 MHz and 793 MHz ~ 805 MHz
-. Result : PASSED

Modulation	Channel	Measured Frequency (MHz)	Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
LTE (5 MHz)	Low	763.000	-61.20	0.5	-60.70	-46.00	-14.70
	Middle	763.000	-61.12	0.5	-60.62	-46.00	-14.62
	High	763.000	-61.18	0.5	-60.68	-46.00	-14.68
LTE (10 MHz)	Low	763.000	-60.59	0.5	-60.09	-46.00	-14.09
	Middle	763.000	-60.48	0.5	-59.98	-46.00	-13.98
	High	763.000	-60.60	0.5	-60.10	-46.00	-14.1

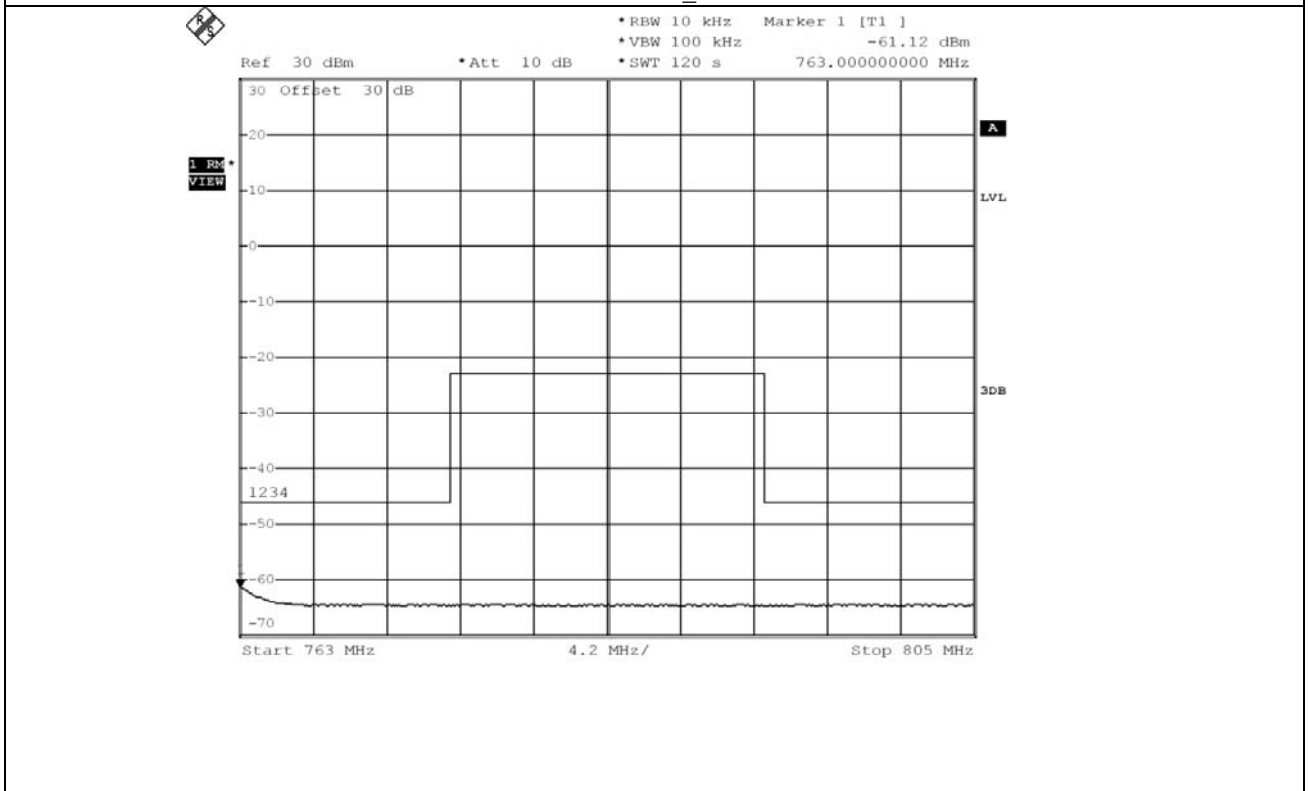
From CFR 27.53(c)(3)&(c)(6): On all frequency between the 763 MHz ~ 775 MHz and 793 MHz ~ 805 MHz, by a factor not less than $76 + 10\log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations, resulting in a limit of -46 dBm (per 6.25 kHz measurement bandwidth)



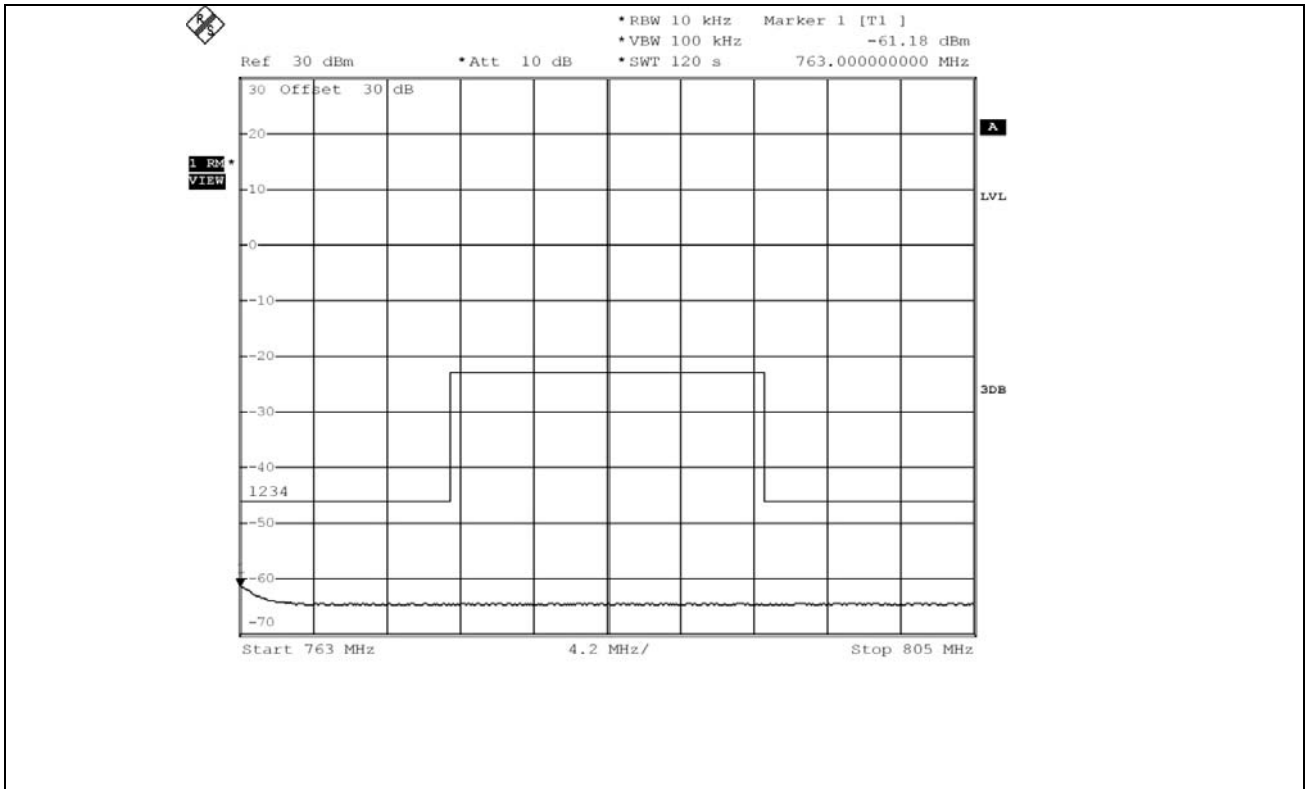
Tested by: Ki-Hong, Nam / Project Engineer



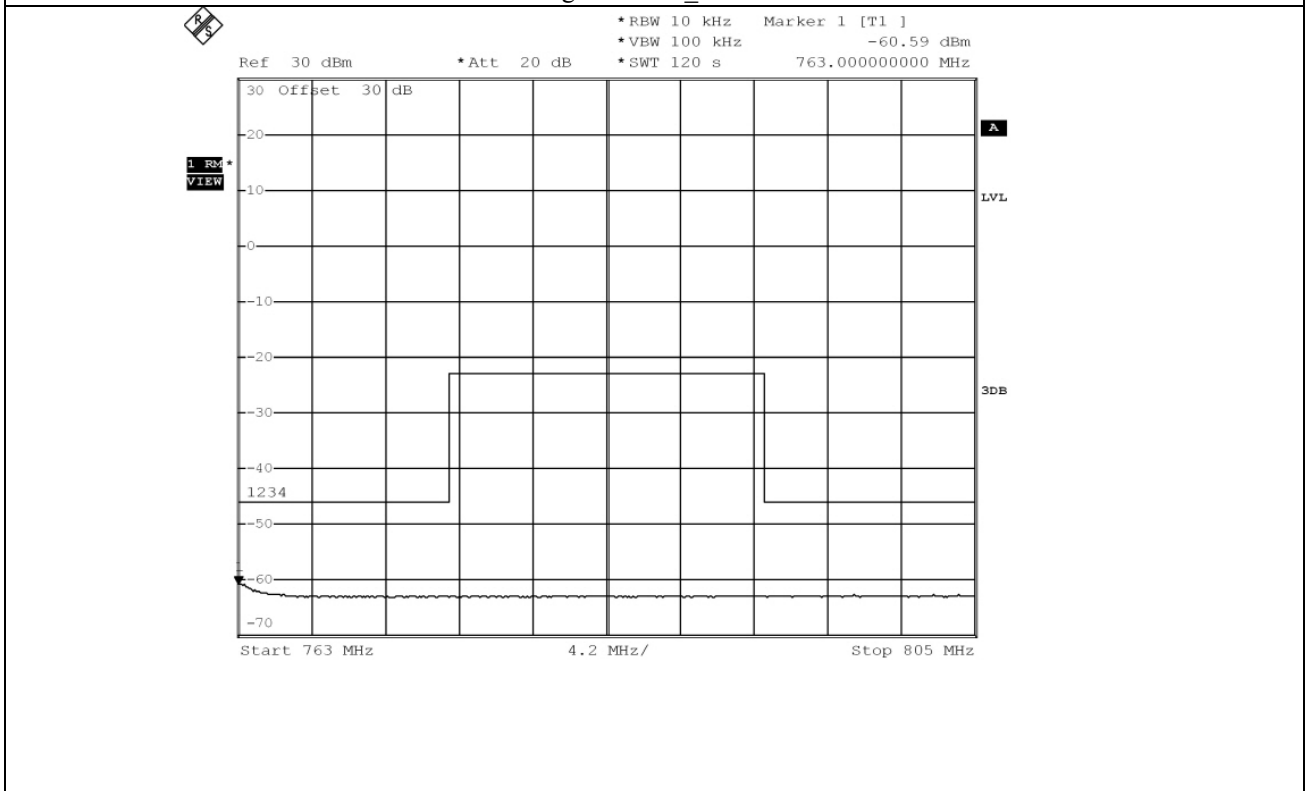
Low Channel_5 MHz



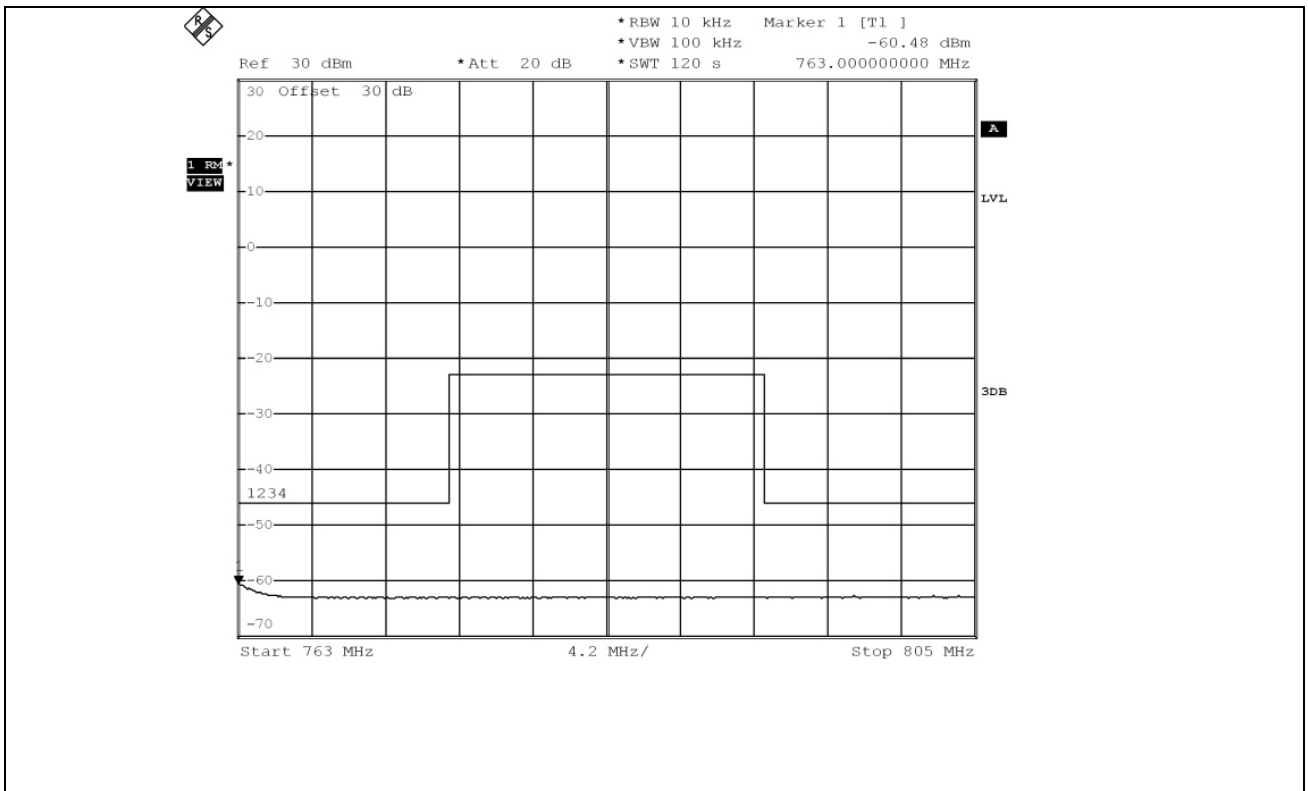
Middle Channel_5 MHz



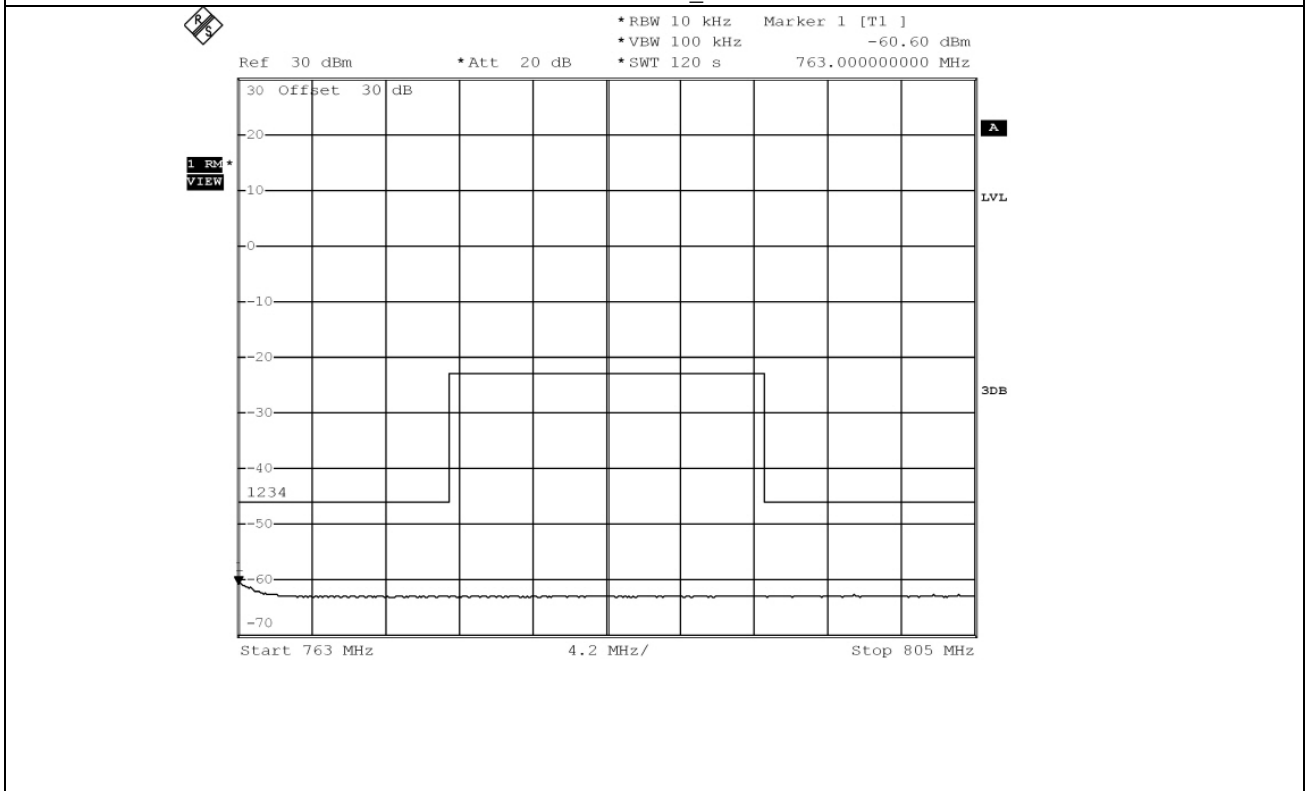
High Channel_5 MHz



Low Channel_10 MHz



Middle Channel_10 MHz



High Channel_10 MHz

7.4.4 Test Result for Part 27 Subpart C §27.53 (f)

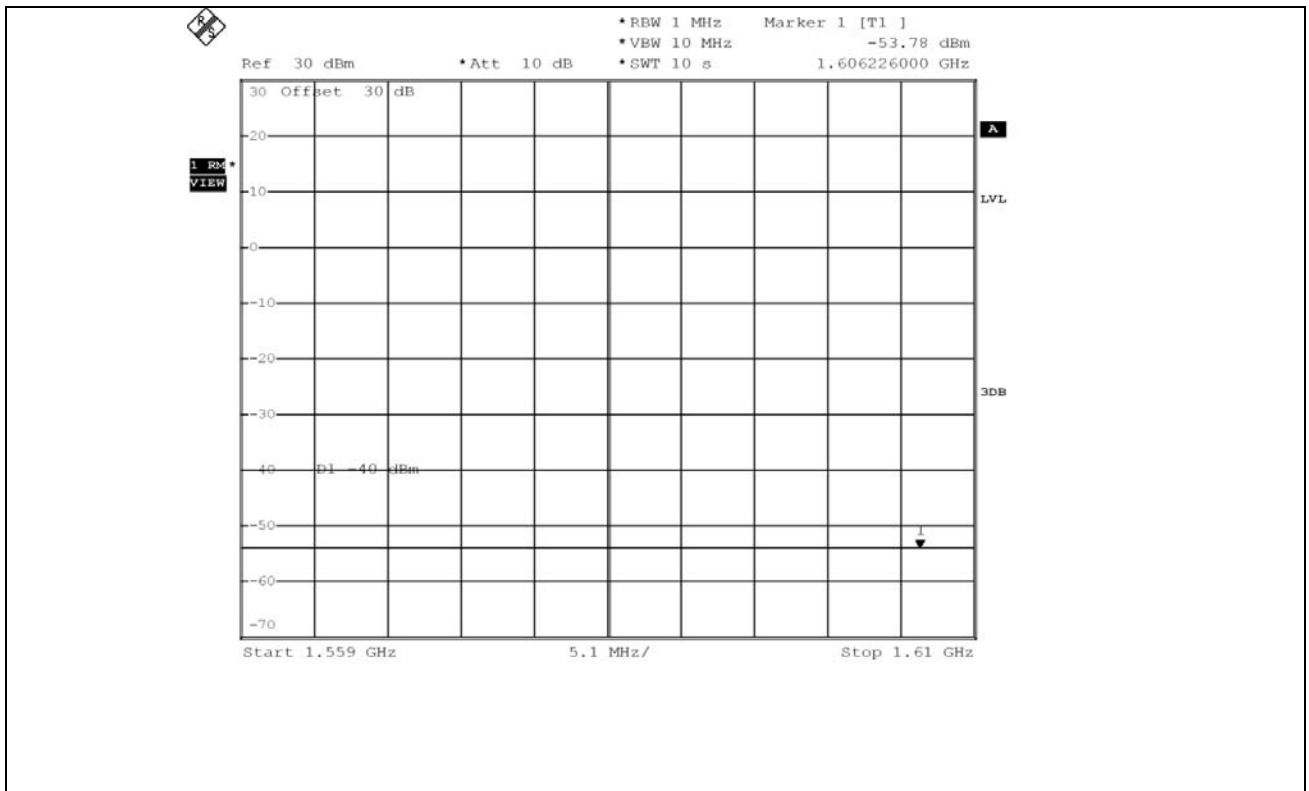
-. Test Date : May 16, 2012
-. Frequency range : 1 559 MHz ~ 1 610 MHz
-. Result : PASSED.

Modulation	Channel	Measured Frequency (MHz)	Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
LTE (5 MHz)	Low	1 606.226	-53.78	1.2	-52.58	-40.00	-12.58
	Middle	1 609.490	-53.74	1.2	-52.54		-12.54
	High	1 609.184	-53.73	1.2	-52.53		-12.53
LTE (10 MHz)	Low	1 607.858	-53.76	1.2	-52.56	-40.00	-12.56
	Middle	1 609.898	-53.73	1.2	-52.53		-12.53
	High	1 606.940	-53.74	1.2	-52.54		-12.54

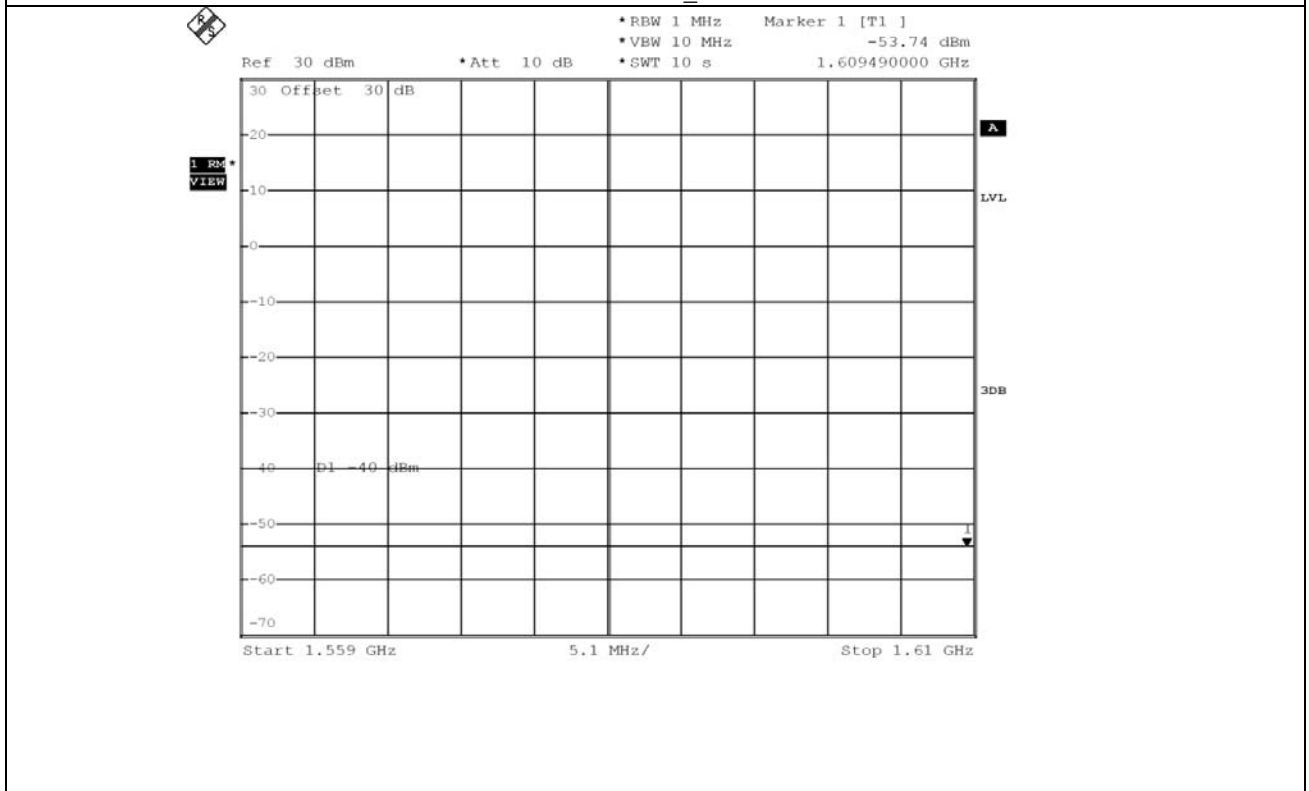
From CFR 27.53(f): For operations in the 746 MHz ~ 763 MHz, 775 MHz ~ 793 MHz, and 805 MHz ~ 806 MHz bands, emissions in the band 1 559 MHz ~ 1 610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.



Tested by: Ki-Hong, Nam / Project Engineer



Low Channel_5 MHz



Middle Channel_5 MHz