

7.4 Test data

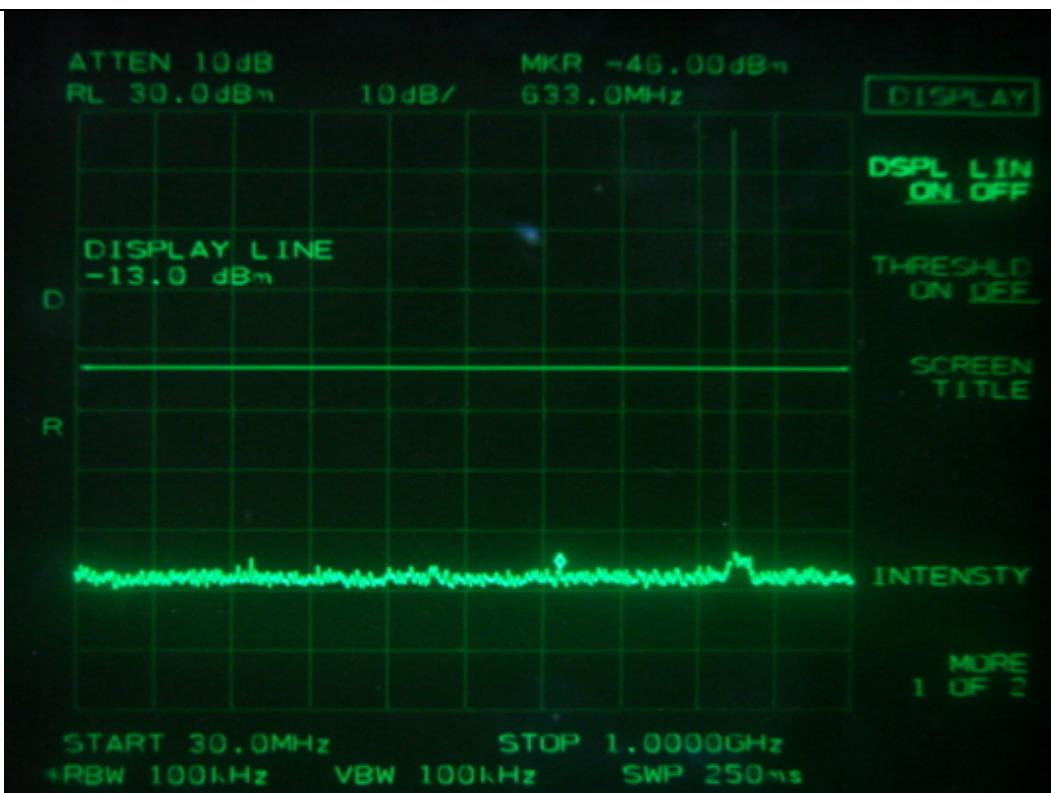
7.4.1 Test Result for 800PS

- Test Date : May 23, 2012
- Frequency range : 30 MHz ~ 10 GHz
- Result : PASSED BY -15.50 dB at low channel of iDEN Mode

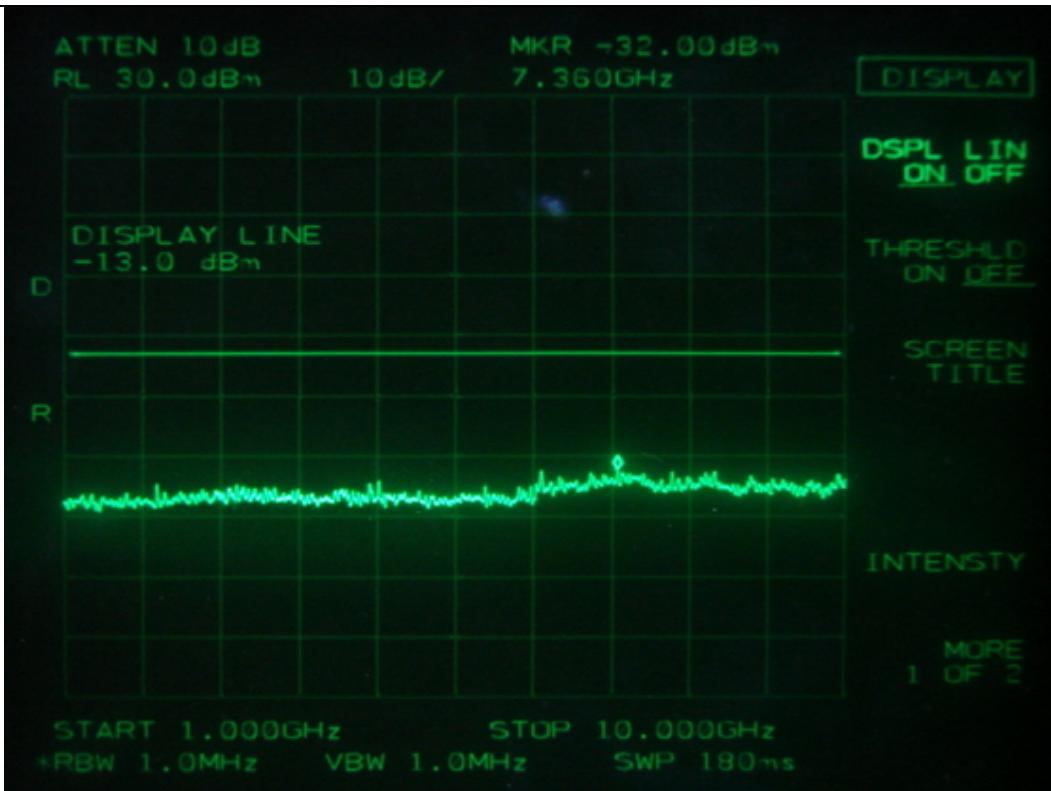
Modulation	Harmonic Frequency (MHz)		Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
iDEN	Low	633.00	-46.00	0.50	-45.50	-13.00	-32.50
		7360.00	-32.00	3.50	-28.50		-15.50
	Middle	612.00	-45.33	0.50	-44.83		-31.83
		7345.00	-32.17	3.50	-28.67		-15.67
	High	691.20	-45.83	0.50	-45.33		-32.33
		7285.00	-32.33	3.50	-28.83		-15.83
SMR	Low	684.80	-45.83	0.50	-45.33	-13.00	-32.33
		7270.00	-32.50	3.50	-29.00		-16.00
	Middle	657.30	-45.83	0.50	-45.33		-32.33
		7345.00	-32.33	3.50	-28.83		-15.83
	High	641.10	-46.00	0.50	-45.50		-32.50
		7330.00	-32.33	3.50	-28.83		-15.83
LTE	Low	603.90	-45.17	0.50	-44.67	-13.00	-31.67
		7495.00	-32.17	3.50	-28.67		-15.67
	Middle	684.80	-46.50	0.50	-46.00		-33.00
		7345.00	-32.83	3.50	-29.33		-16.33
	High	723.60	-46.67	0.50	-46.17		-33.17
		7600.00	-32.17	3.50	-28.67		-15.67

According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0 dBm.

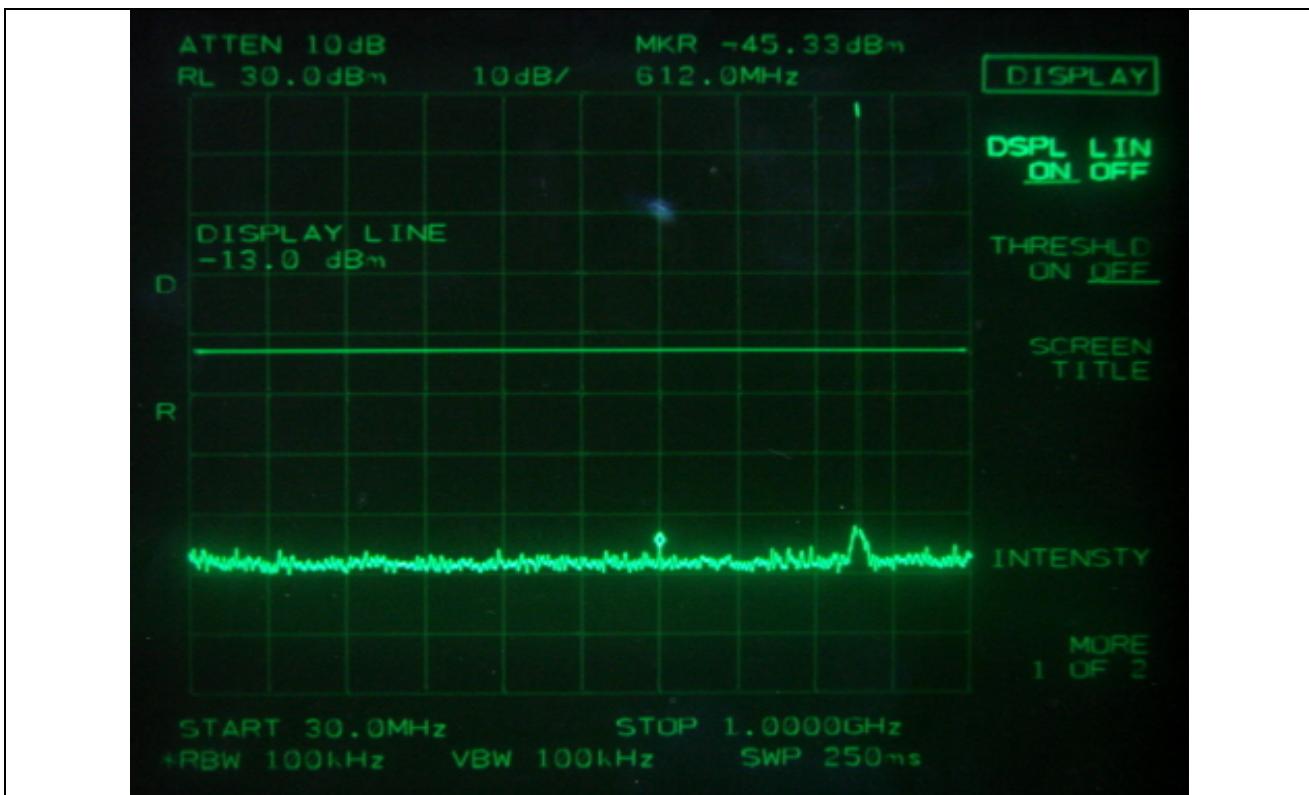
Tested by: Ki-Hong, Nam / Project Engineer



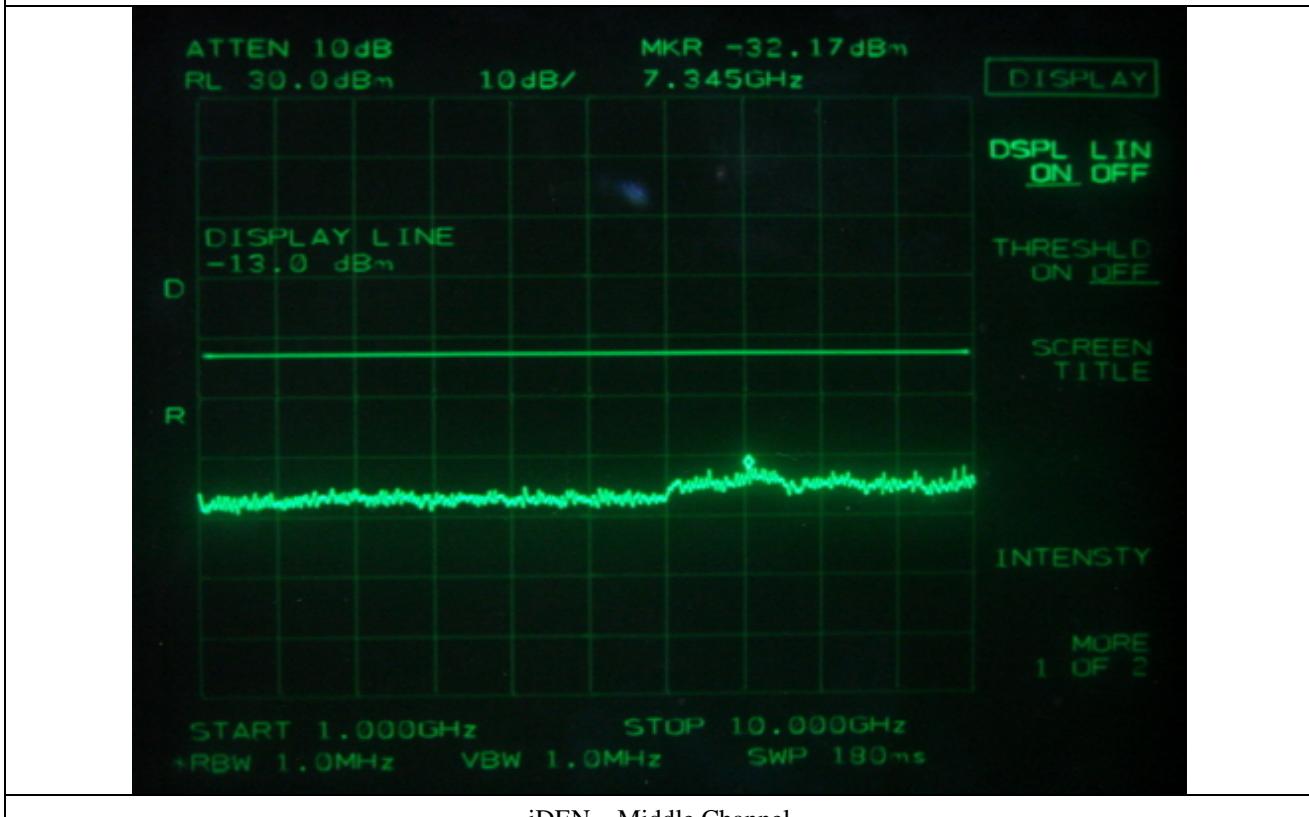
iDEN – Low Channel



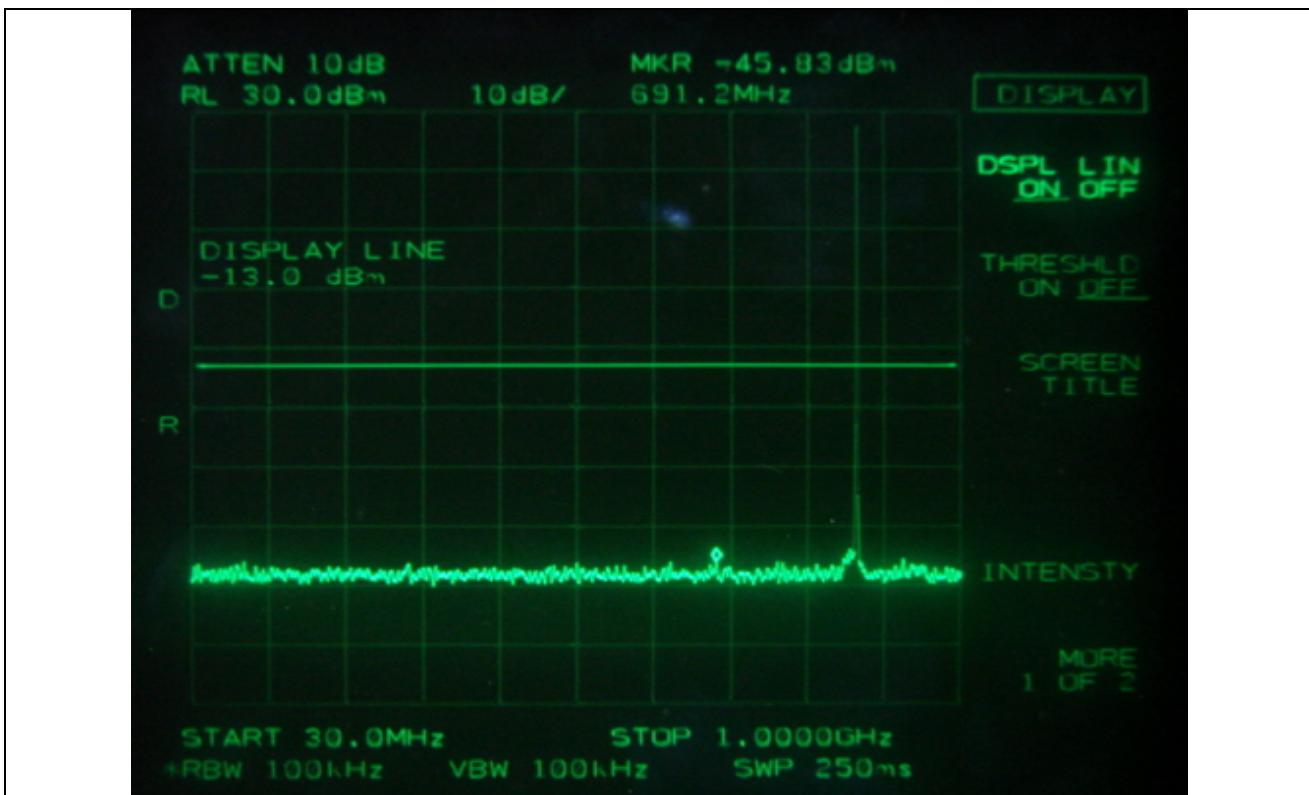
iDEN – Low Channel



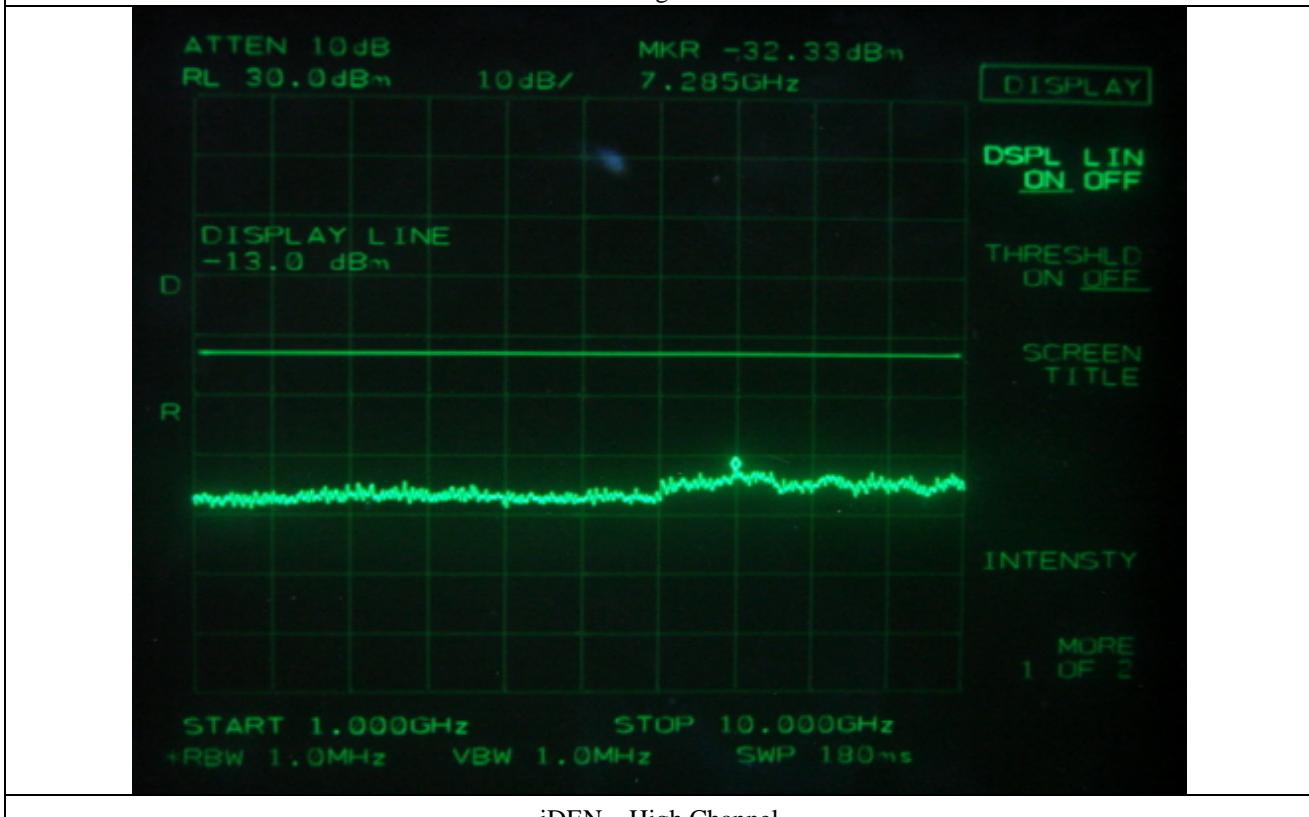
iDEN – Middle Channel



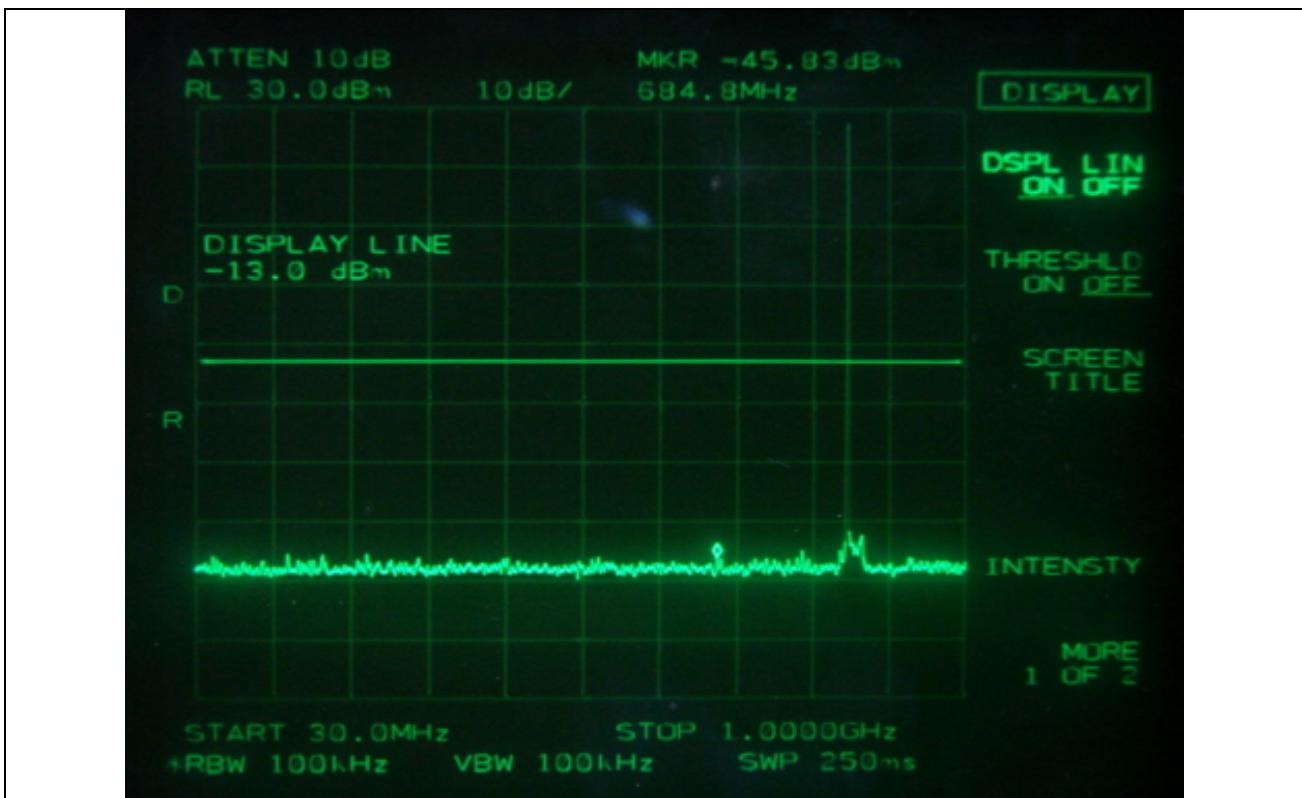
iDEN – Middle Channel



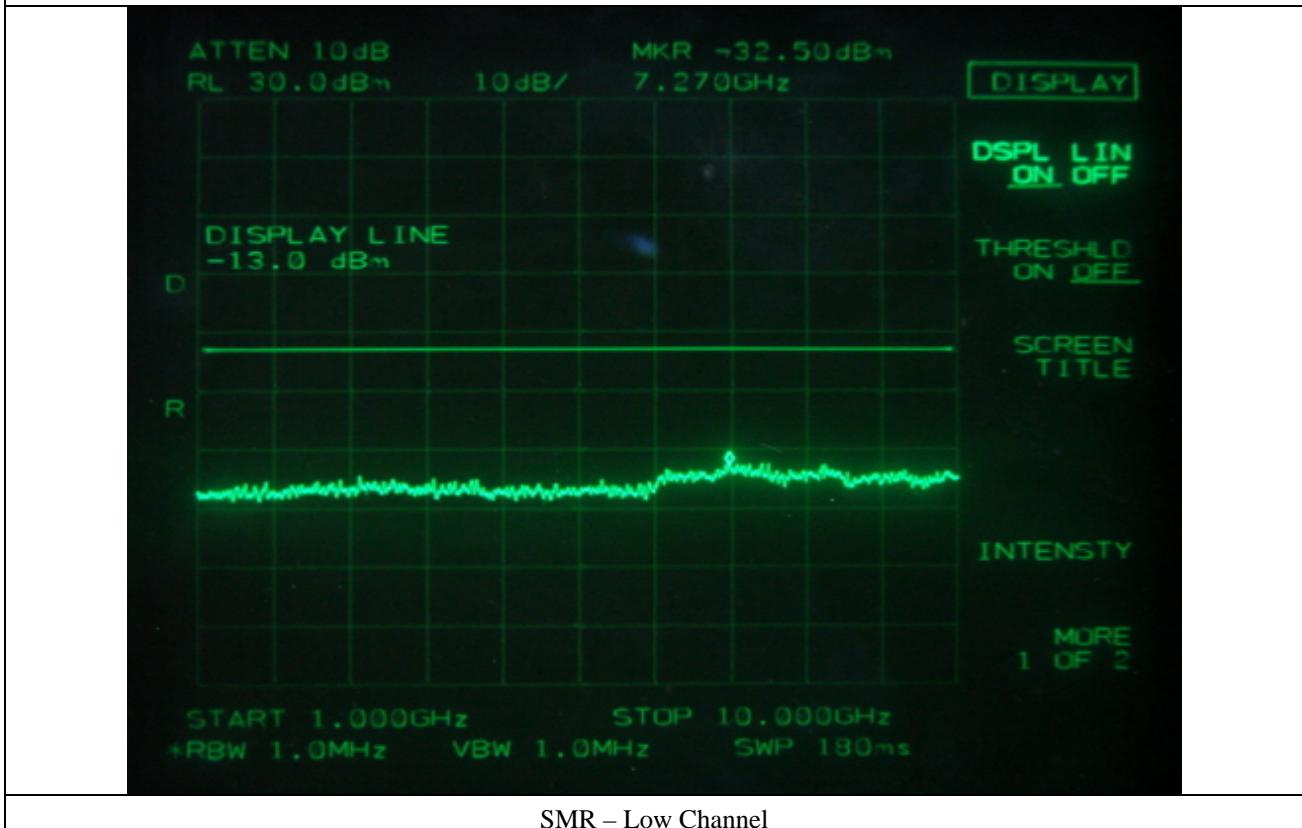
iDEN – High Channel



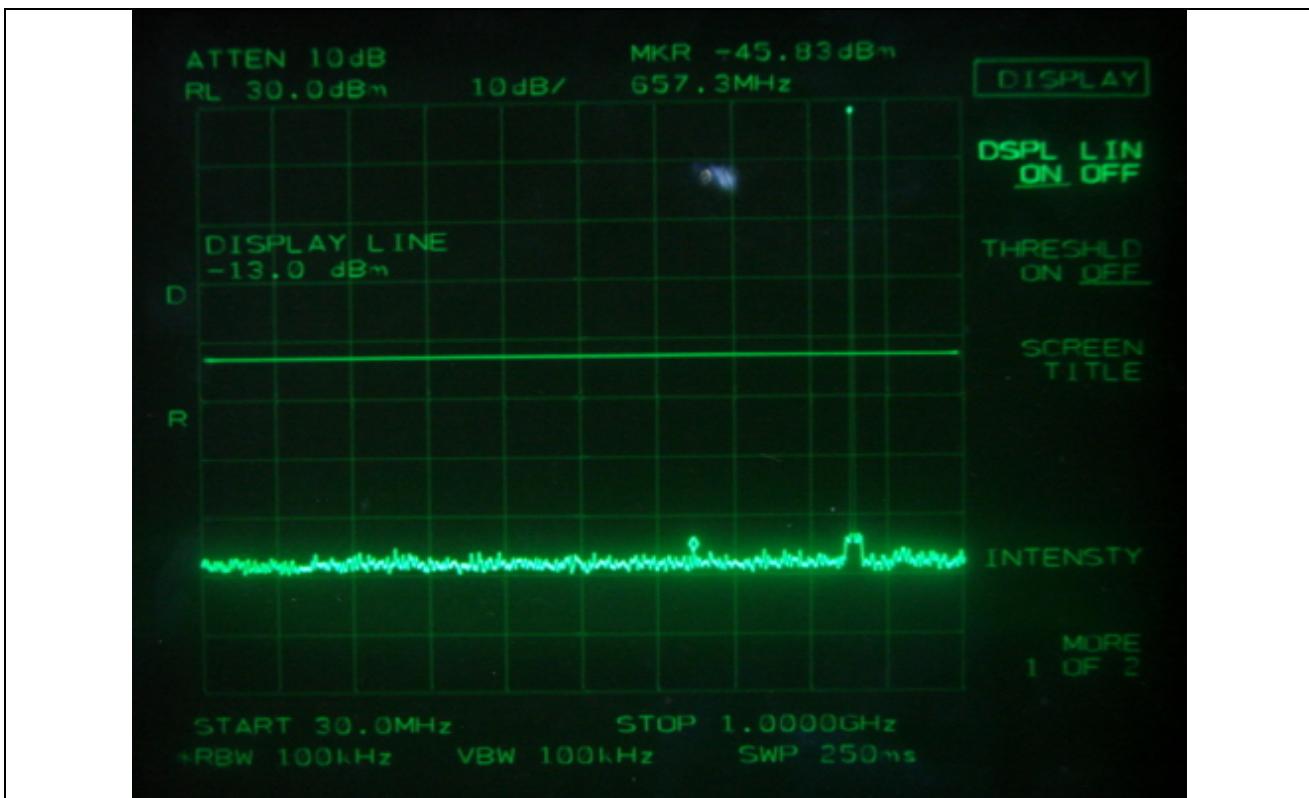
iDEN – High Channel



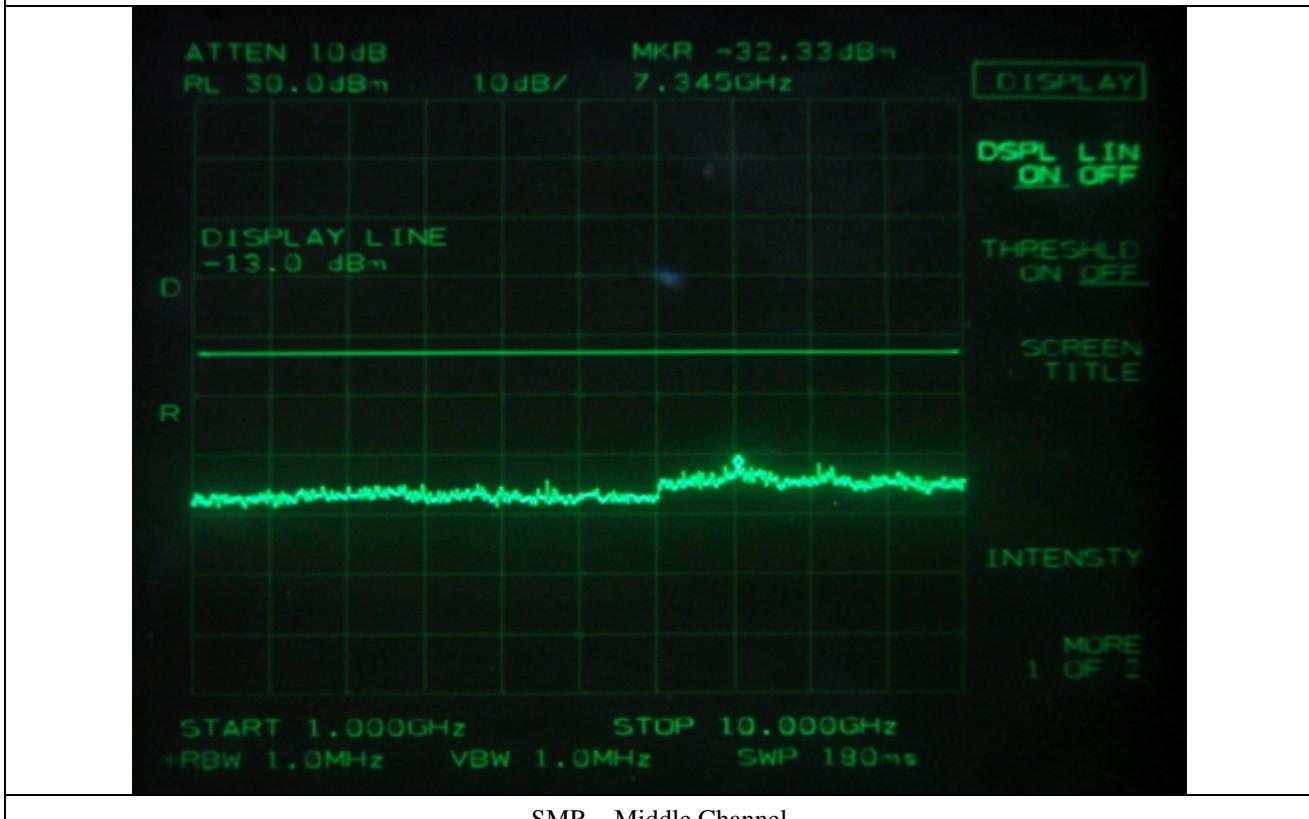
SMR – Low Channel



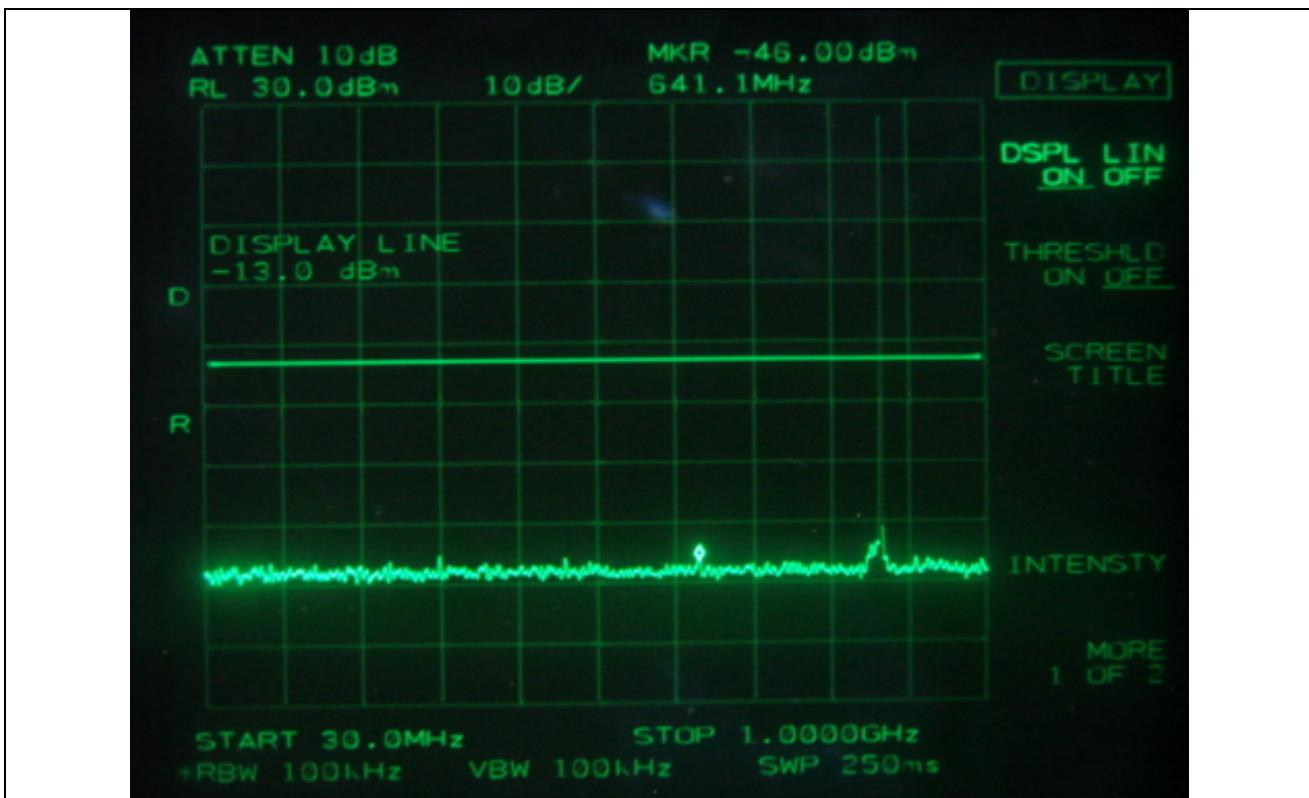
SMR – Low Channel



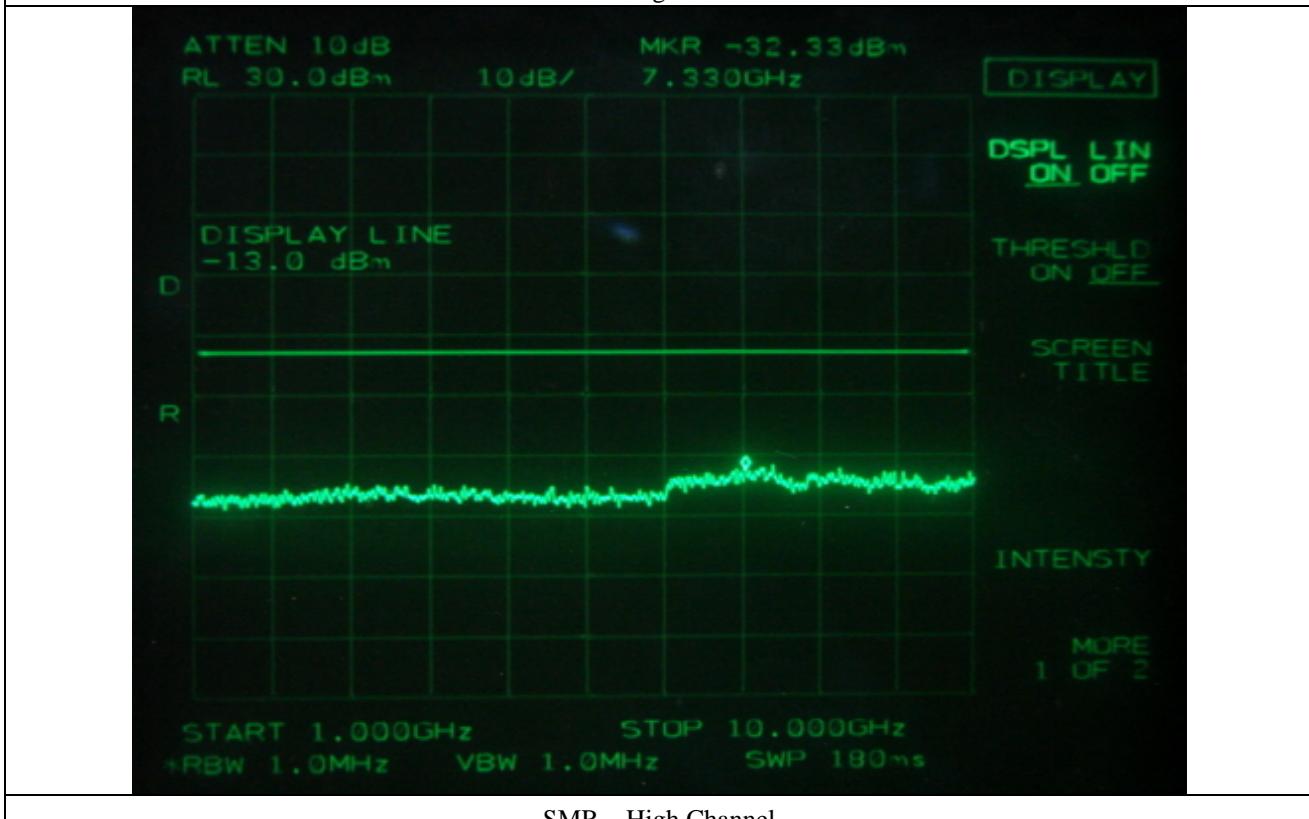
SMR – Middle Channel



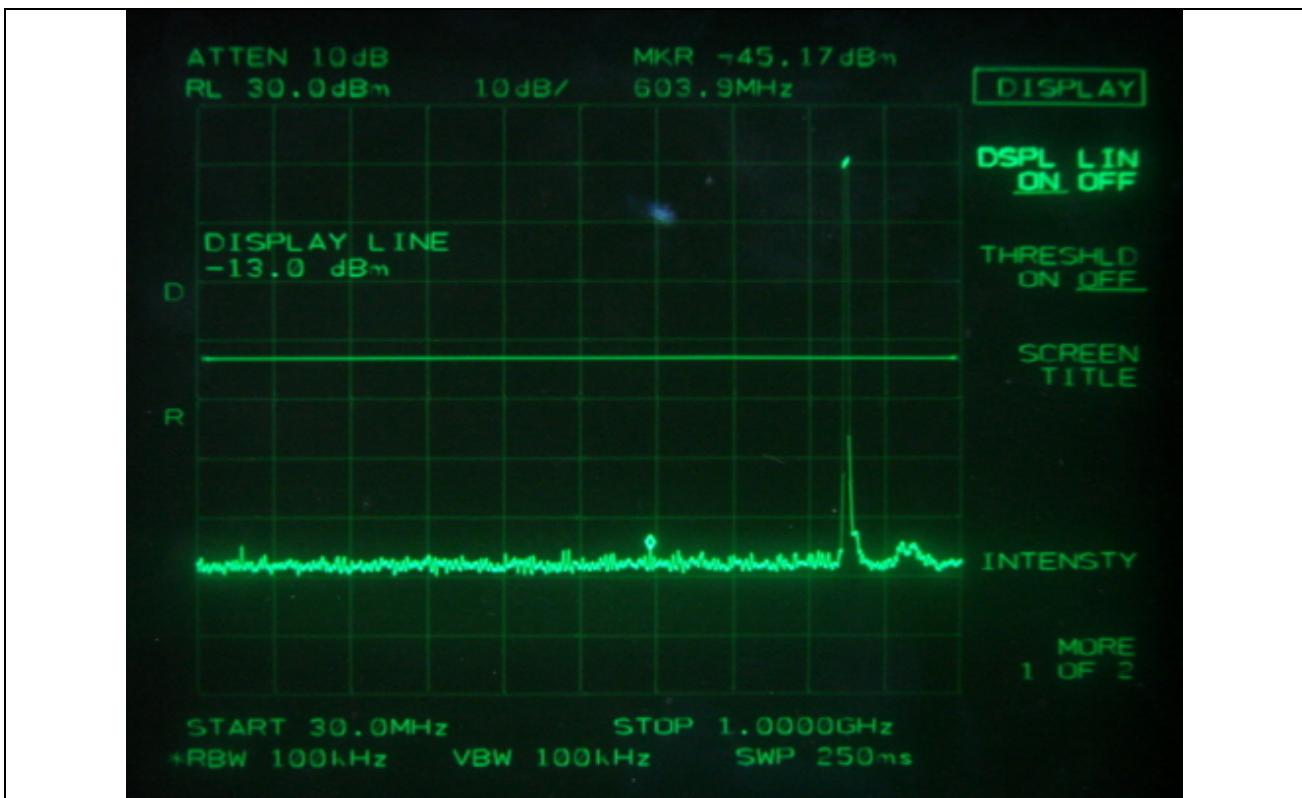
SMR – Middle Channel



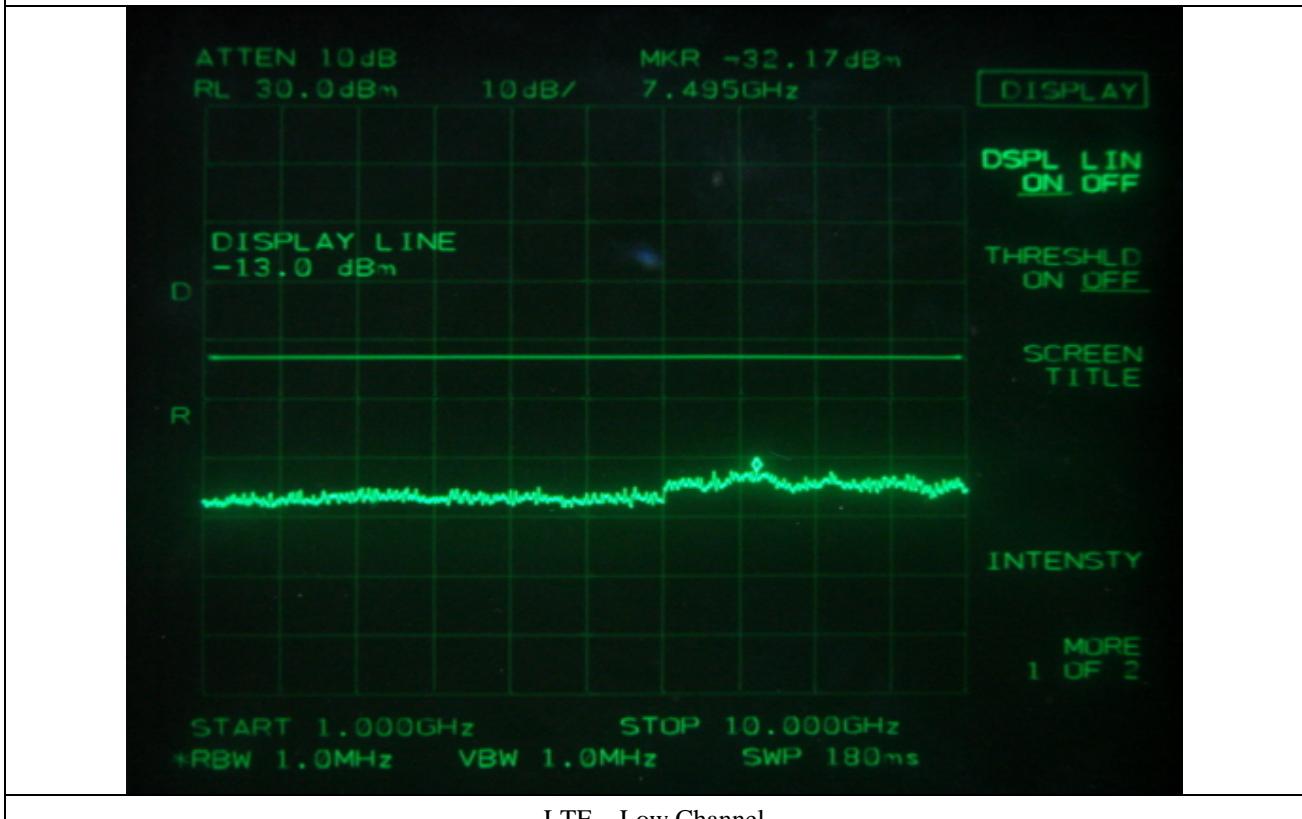
SMR - High Channel



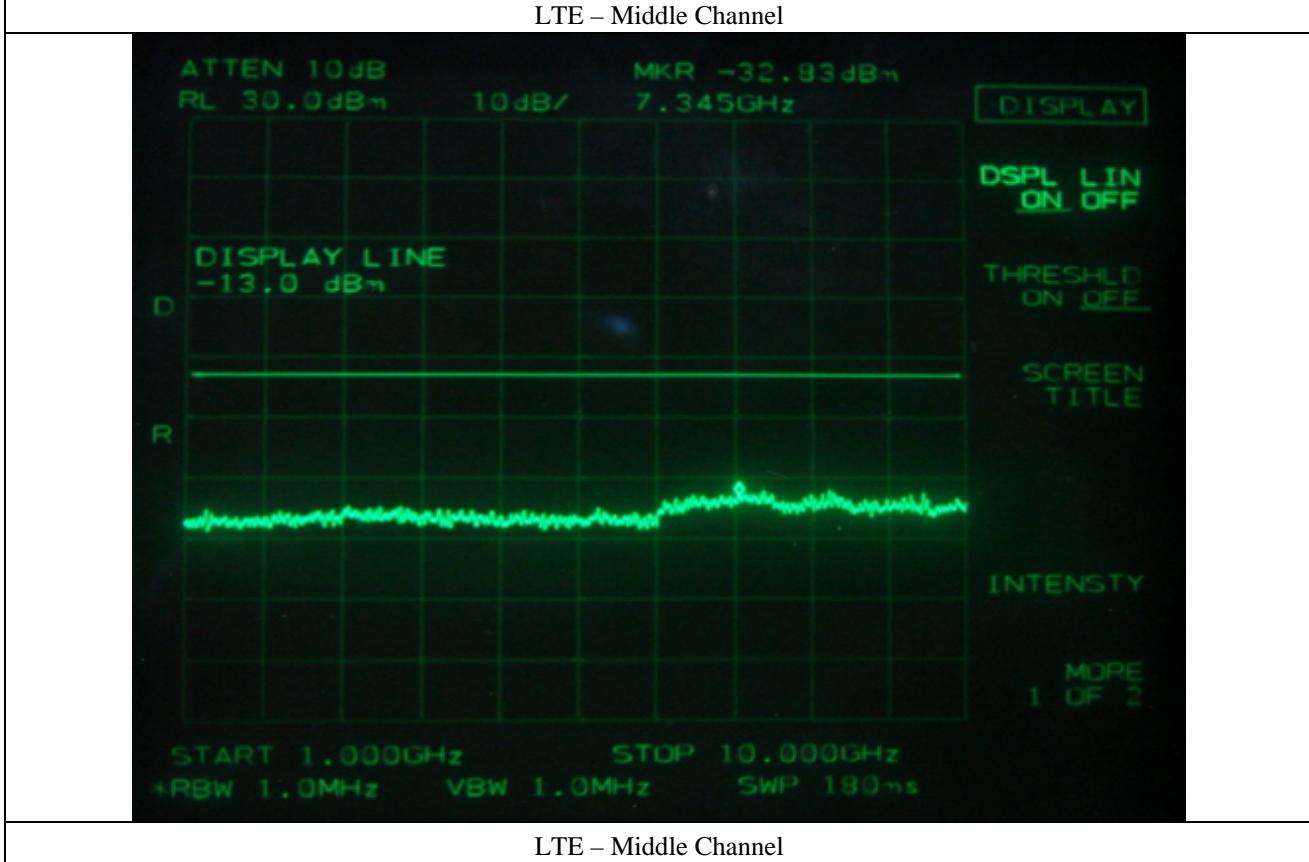
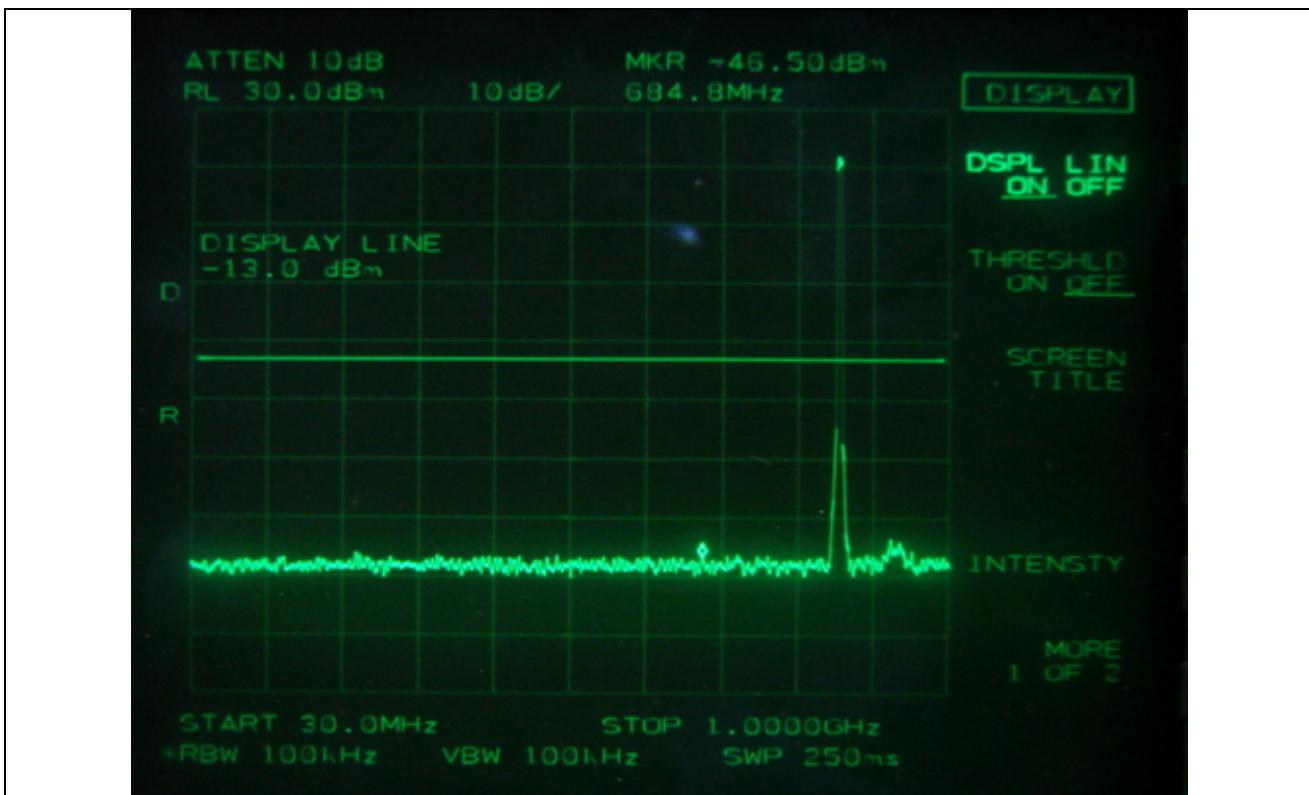
SMR - High Channel

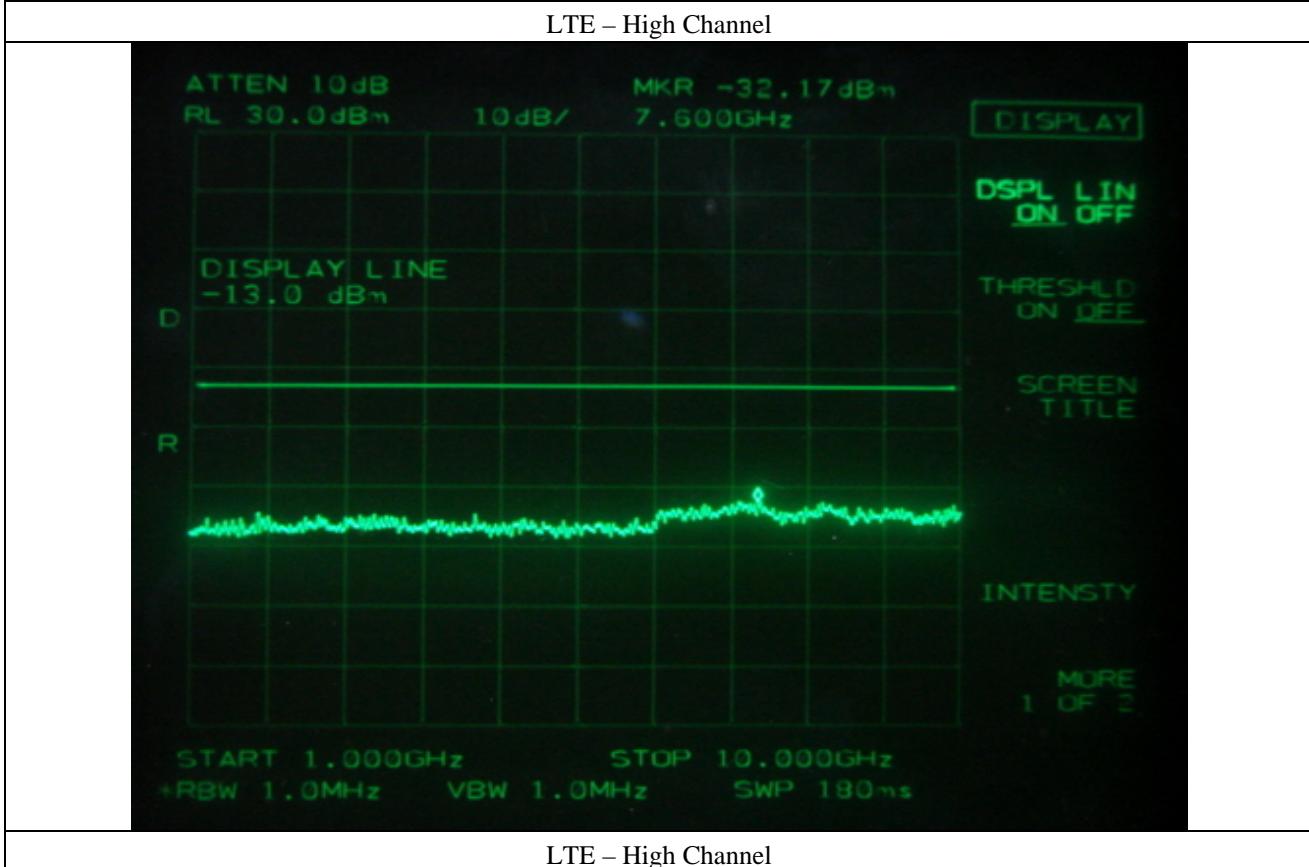
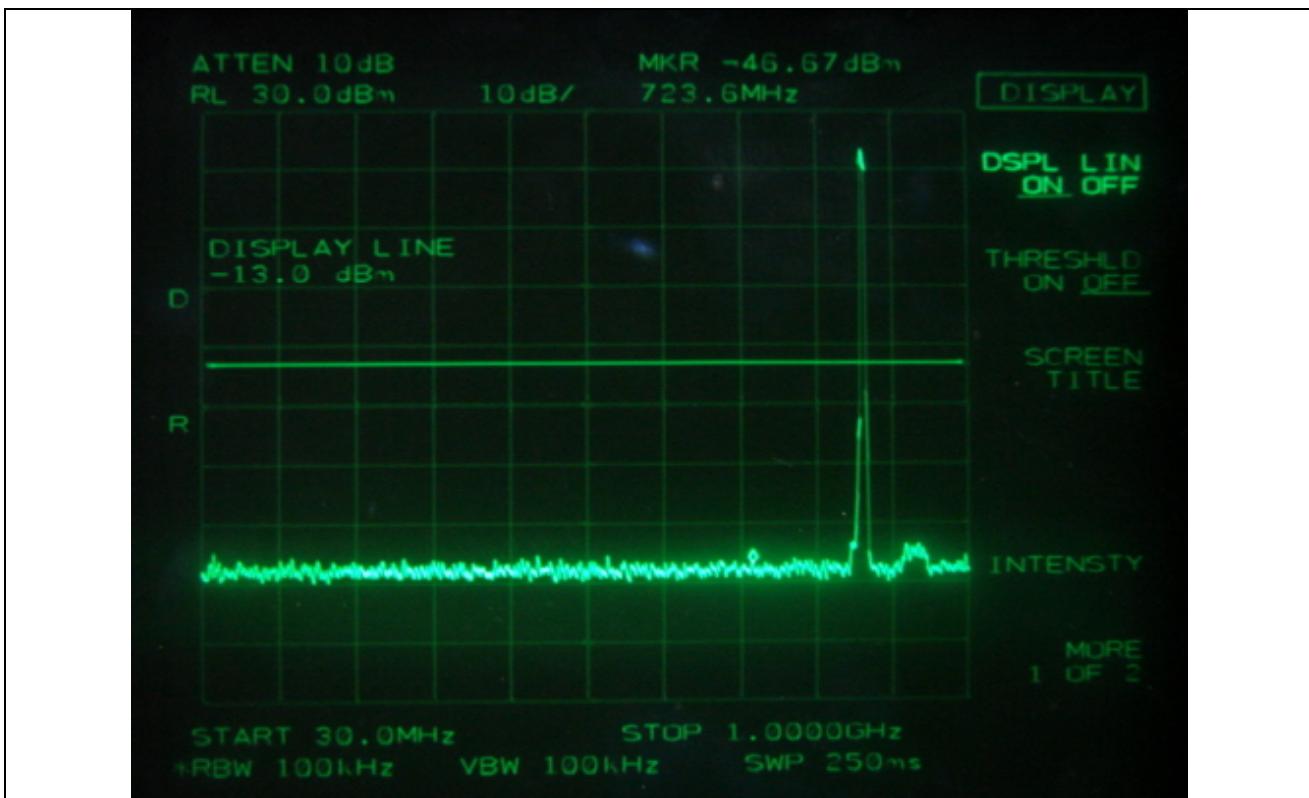


LTE – Low Channel



LTE – Low Channel





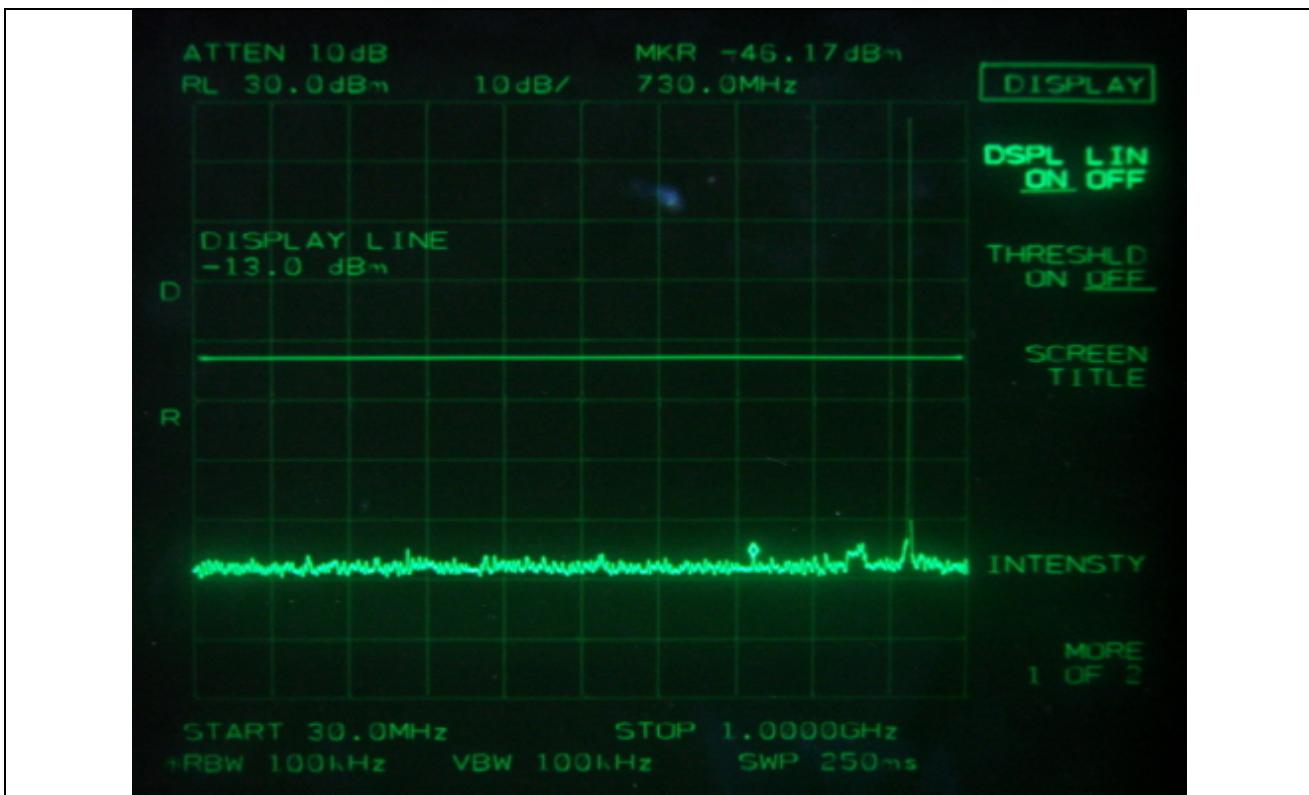
7.4.2 Test Result for 900I+PA (929 MHz ~ 930 MHz)

- Test Date : May 25, 2012
- Frequency range : 30 MHz ~ 10 GHz
- Result : PASSED BY -15.33 dB at Middle channel of SMR Mode

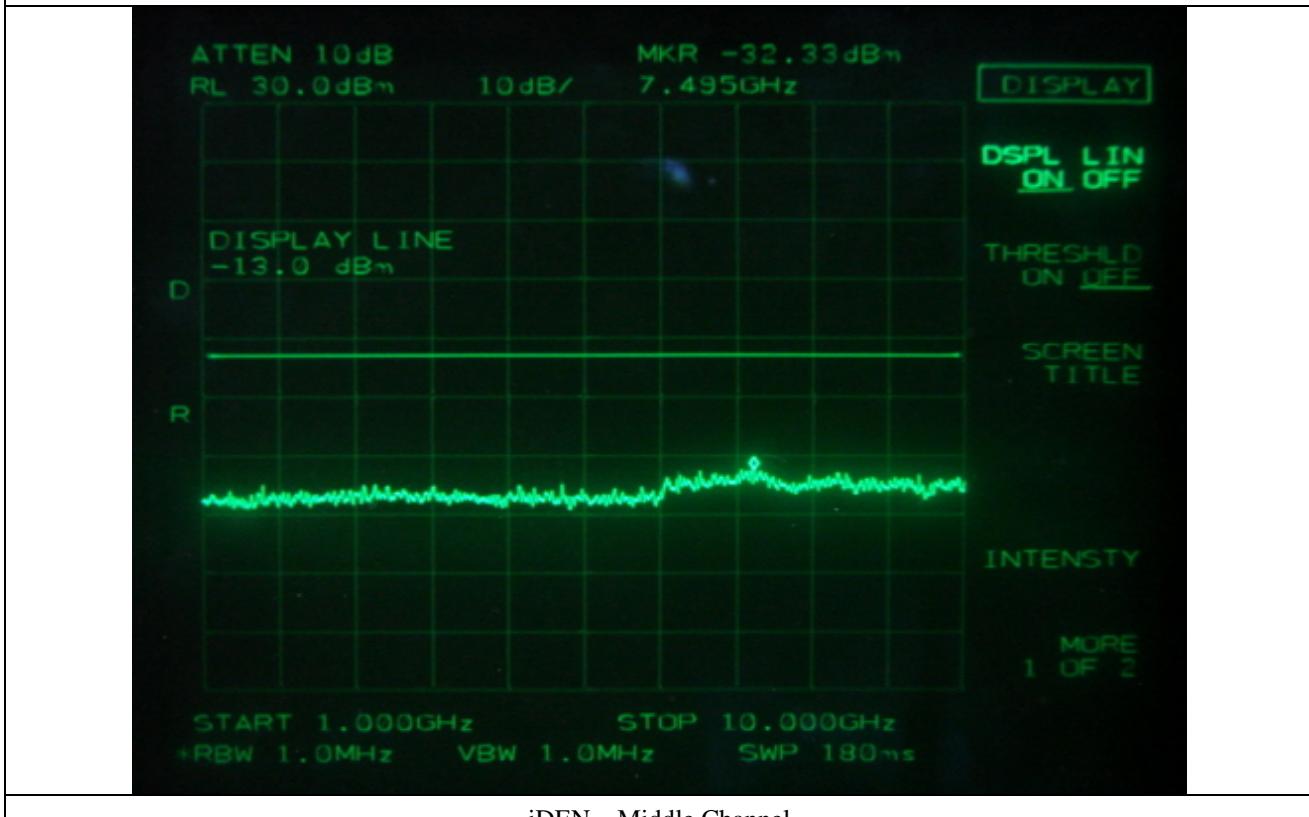
Modulation	Harmonic Frequency (MHz)		Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
iDEN	Middle	730.00	-46.17	0.50	-45.67	-13.00	-32.67
		7495.00	-32.33	3.50	-28.83		-15.83
SMR	Middle	670.20	-45.33	0.50	-44.83	-13.00	-31.83
		7630.00	-31.83	3.50	-28.33		-15.33

According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P) \text{ dBc}$, equates to -13.0 dBm.

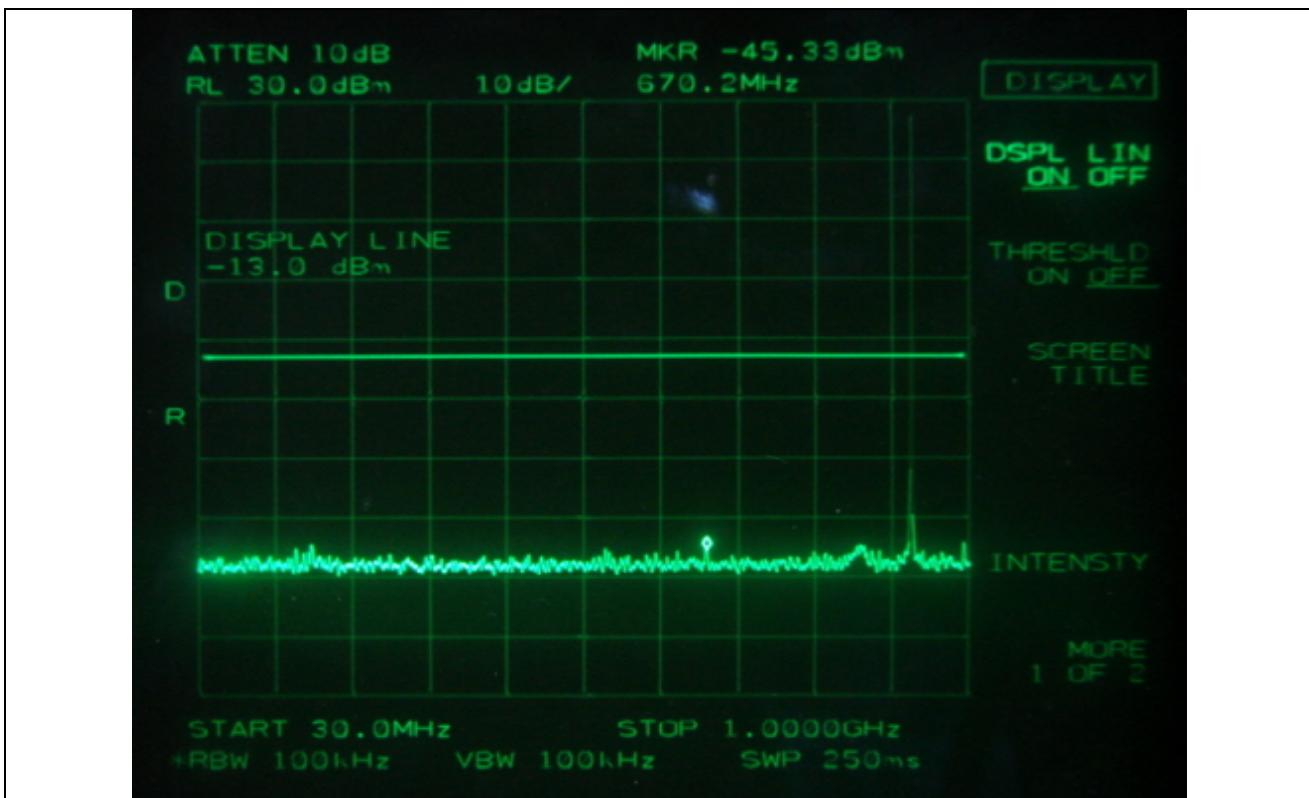
 Tested by: Ki-Hong, Nam / Project Engineer



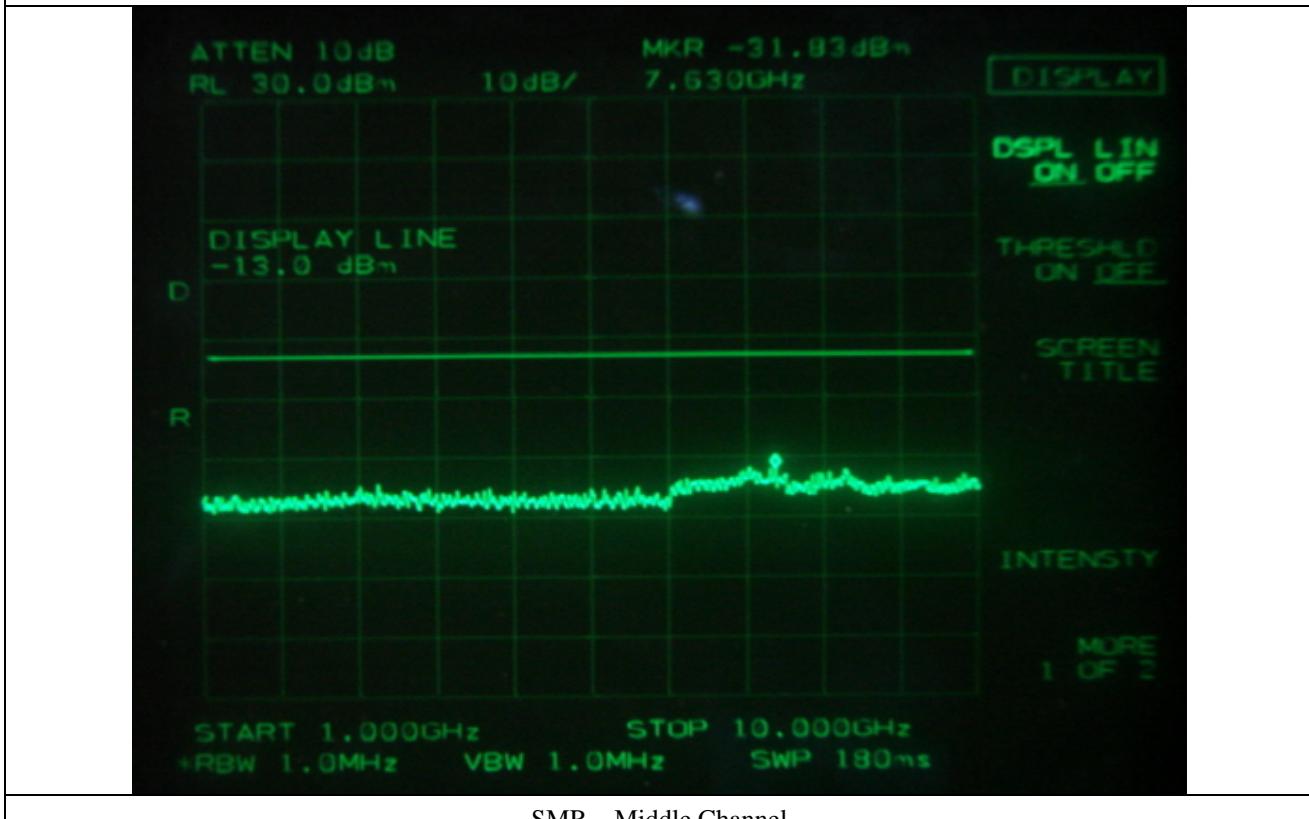
iDEN – Middle Channel



iDEN – Middle Channel



SMR – Middle Channel



SMR – Middle Channel

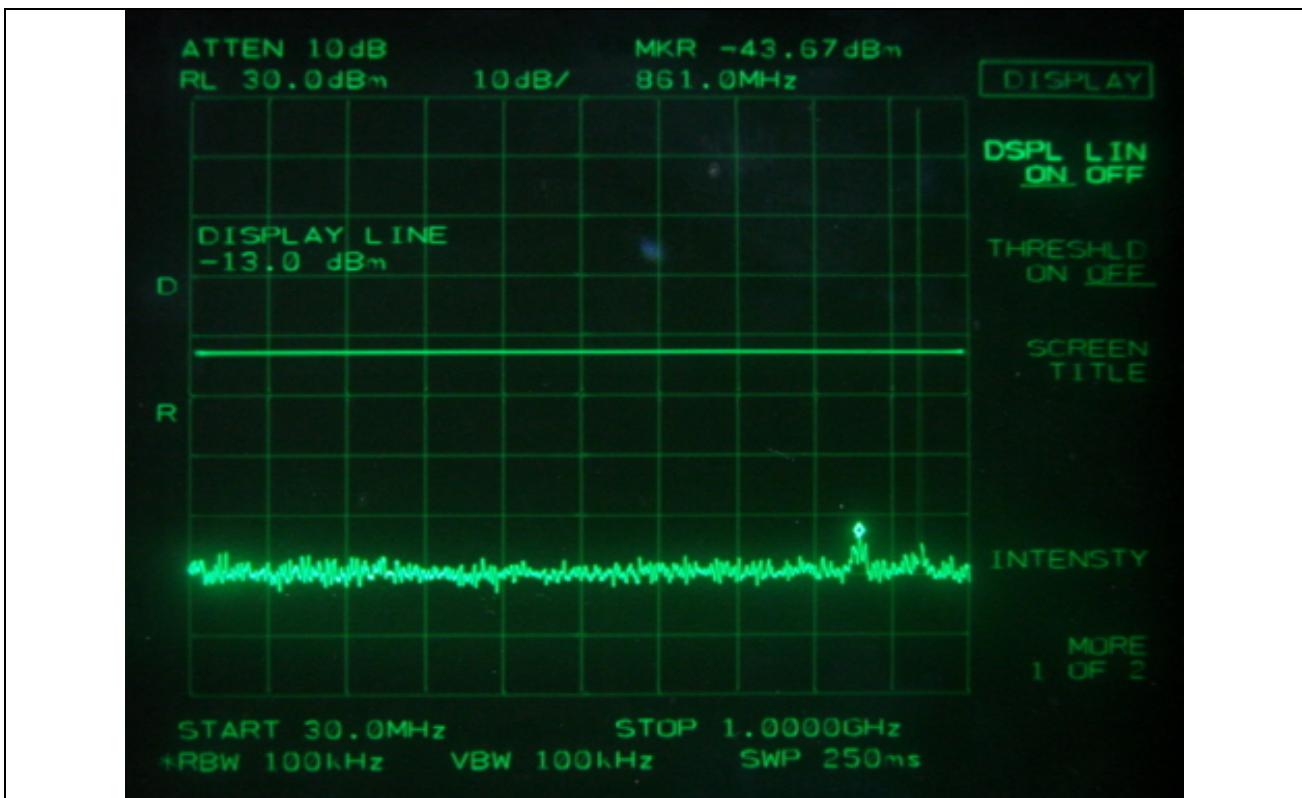
7.4.3 Test Result for 900I+PA (935 MHz ~ 940 MHz)

- . Test Date : May 25, 2012
- . Frequency range : 30 MHz ~ 10 GHz
- . Result : PASSED BY -15.17 dB at low channel of SMR Mode

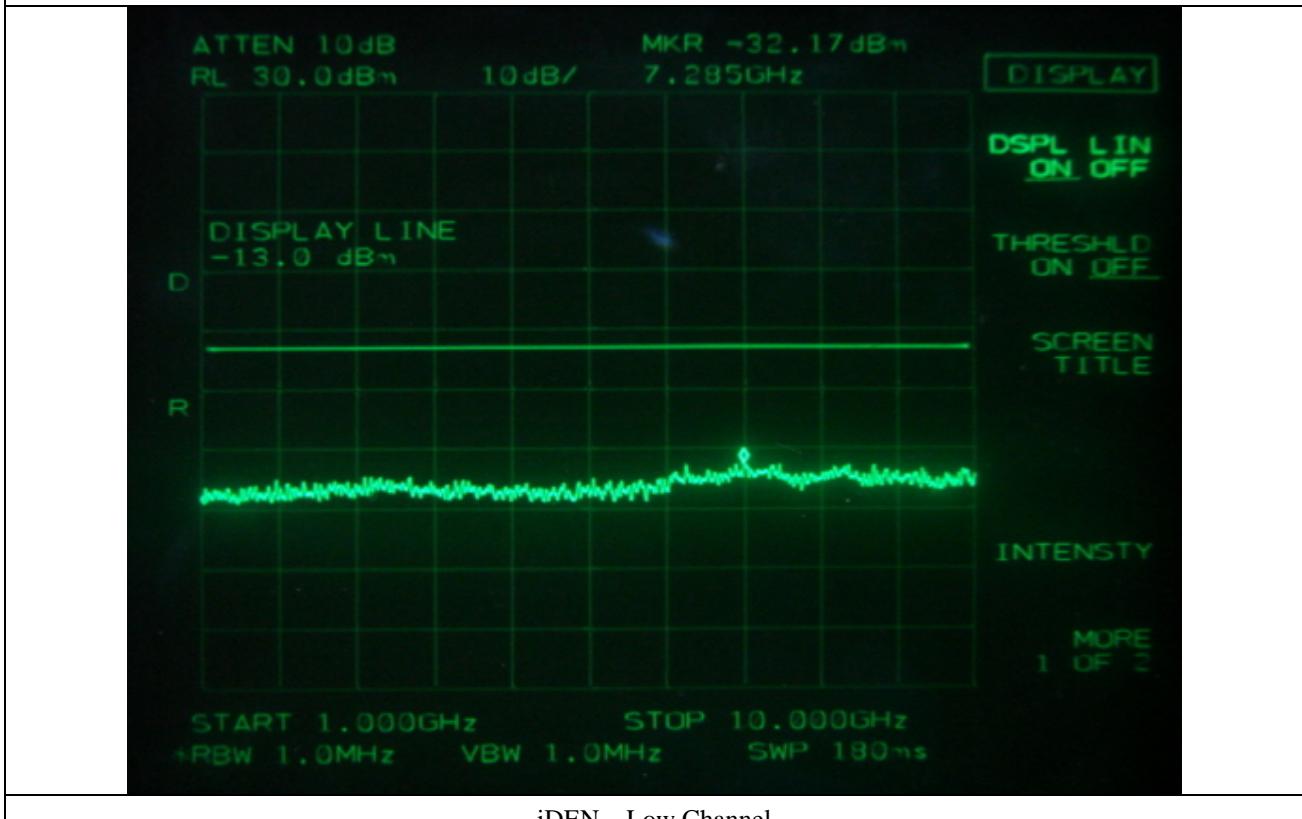
Modulation	Harmonic Frequency (MHz)		Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
iDEN	Low	861.00	-43.67	0.50	-43.17	-13.00	-30.17
		7285.00	-32.17	3.50	-28.67		-15.67
	High	861.00	-44.50	0.50	-44.00		-31.00
		7375.00	-31.83	3.50	-28.33		-15.33
SMR	Low	857.70	-44.67	0.50	-44.17	-13.00	-31.17
		7330.00	-31.67	3.50	-28.17		-15.17
	High	862.60	-44.50	0.50	-44.00		-31.00
		7465.00	-31.83	3.50	-28.33		-15.33

According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0 dBm.

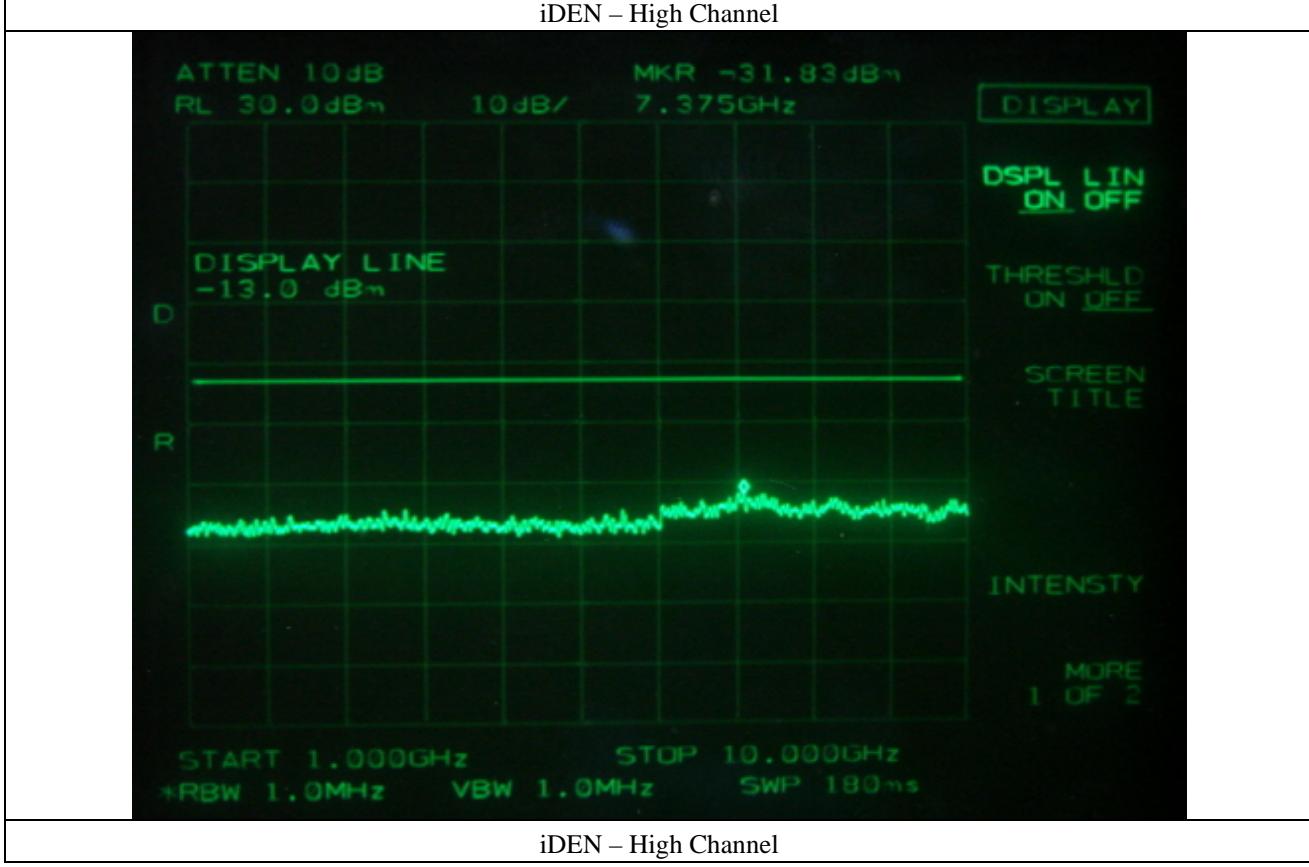
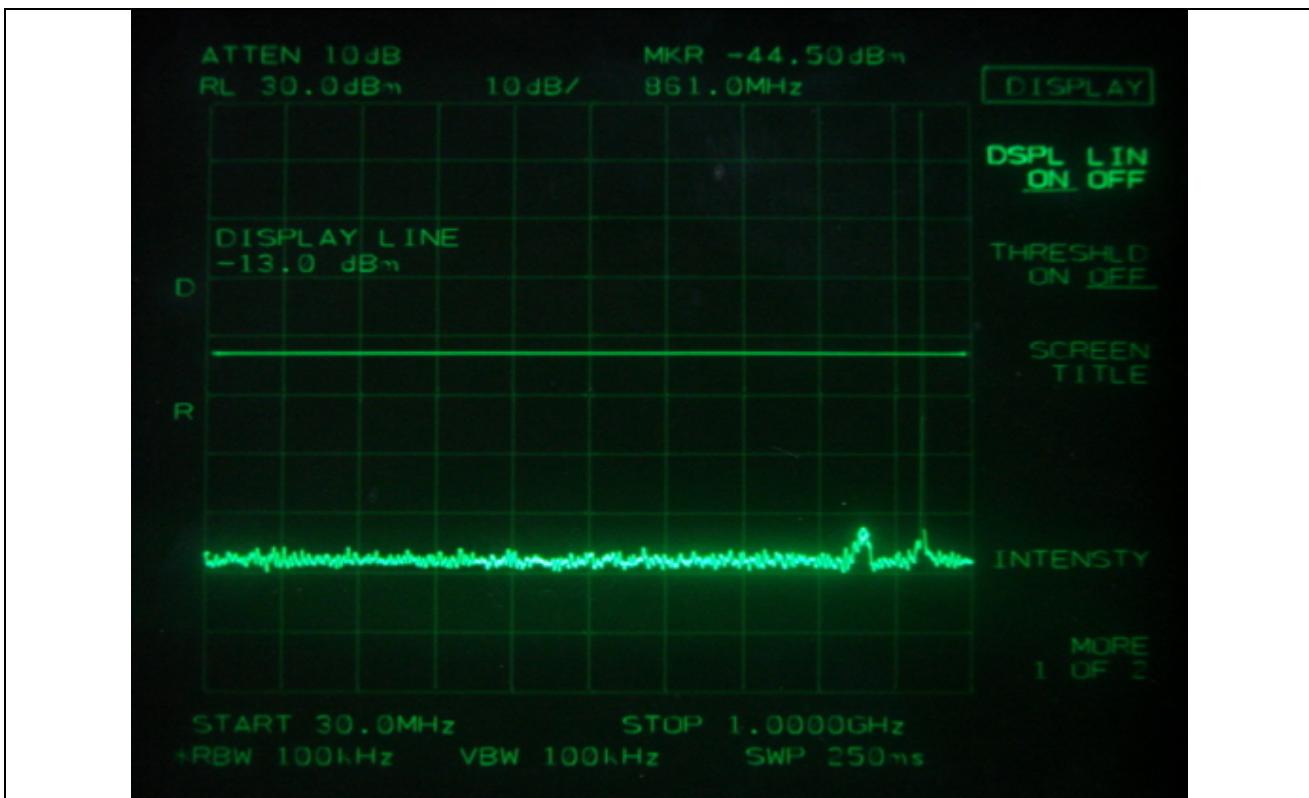
 Tested by: Ki-Hong, Nam / Project Engineer

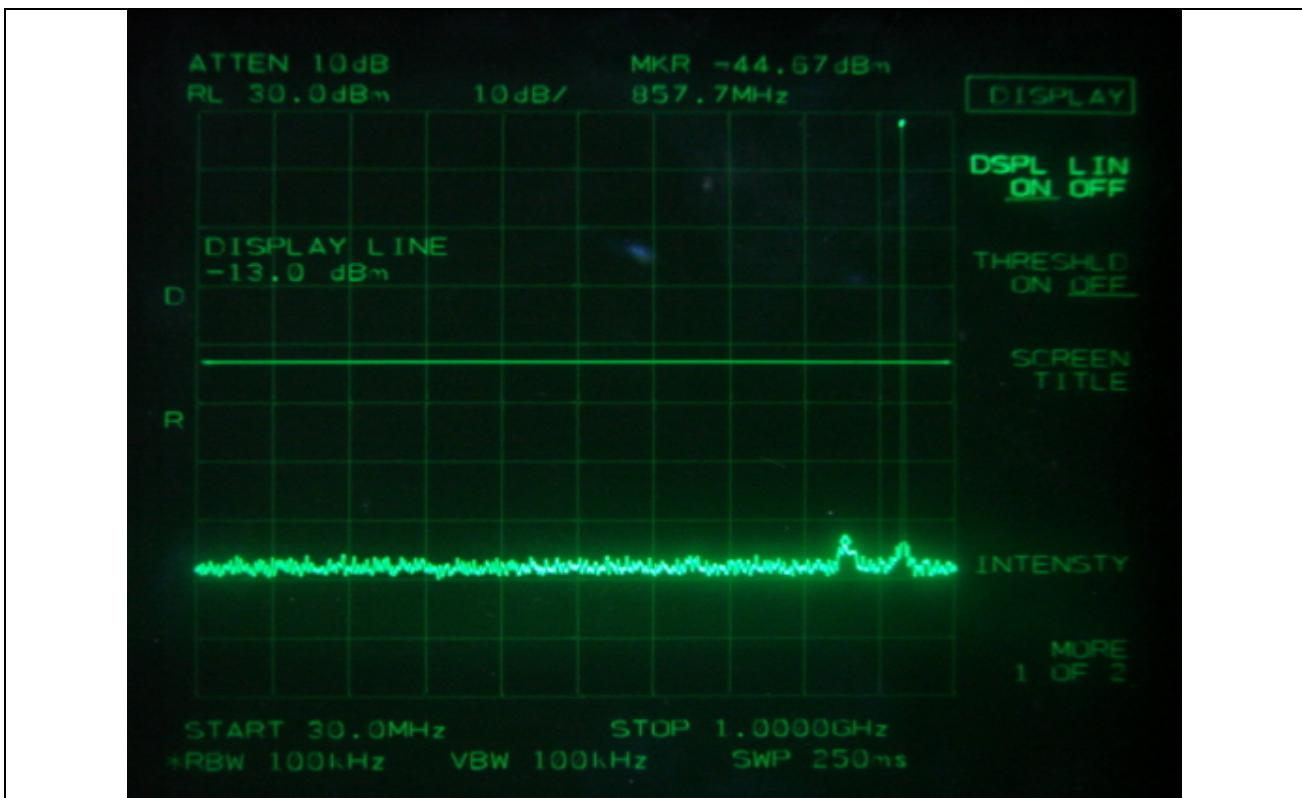


iDEN – Low Channel

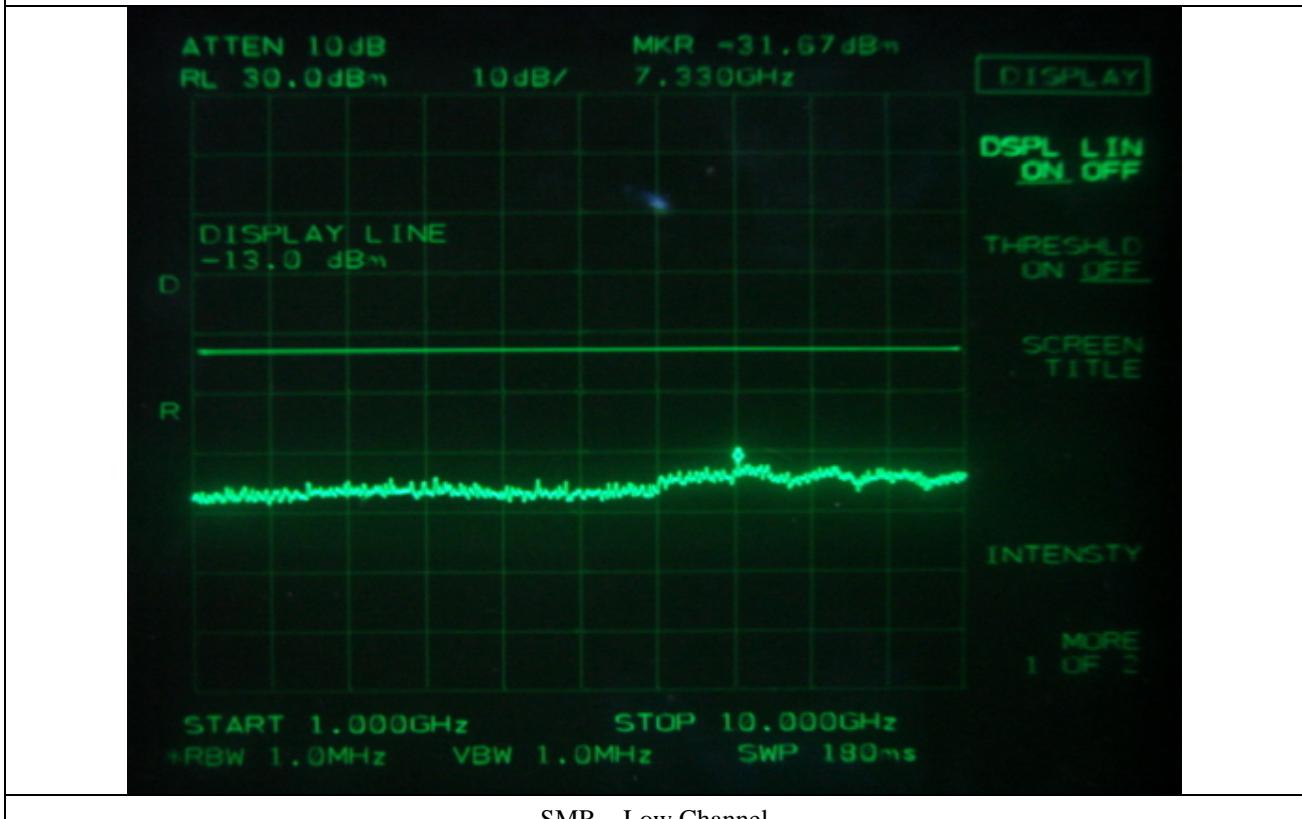


iDEN – Low Channel

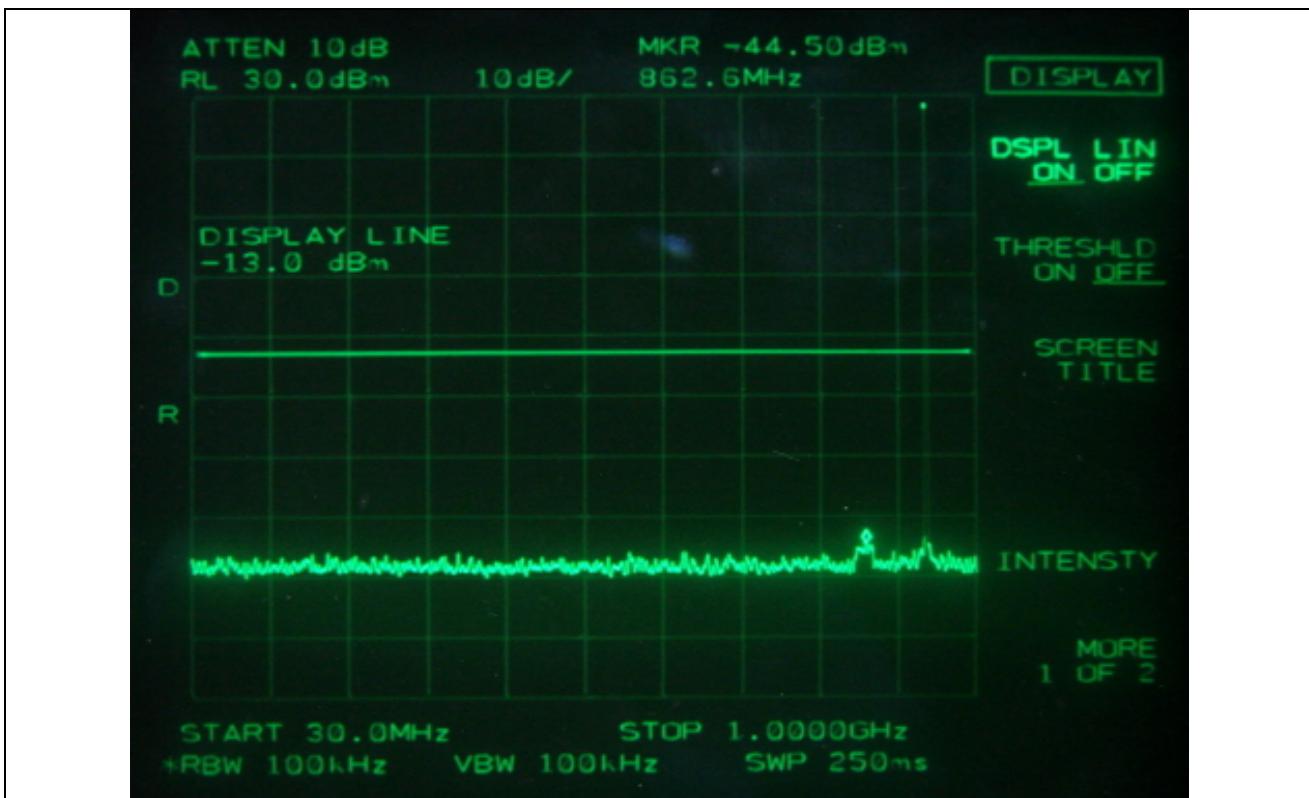




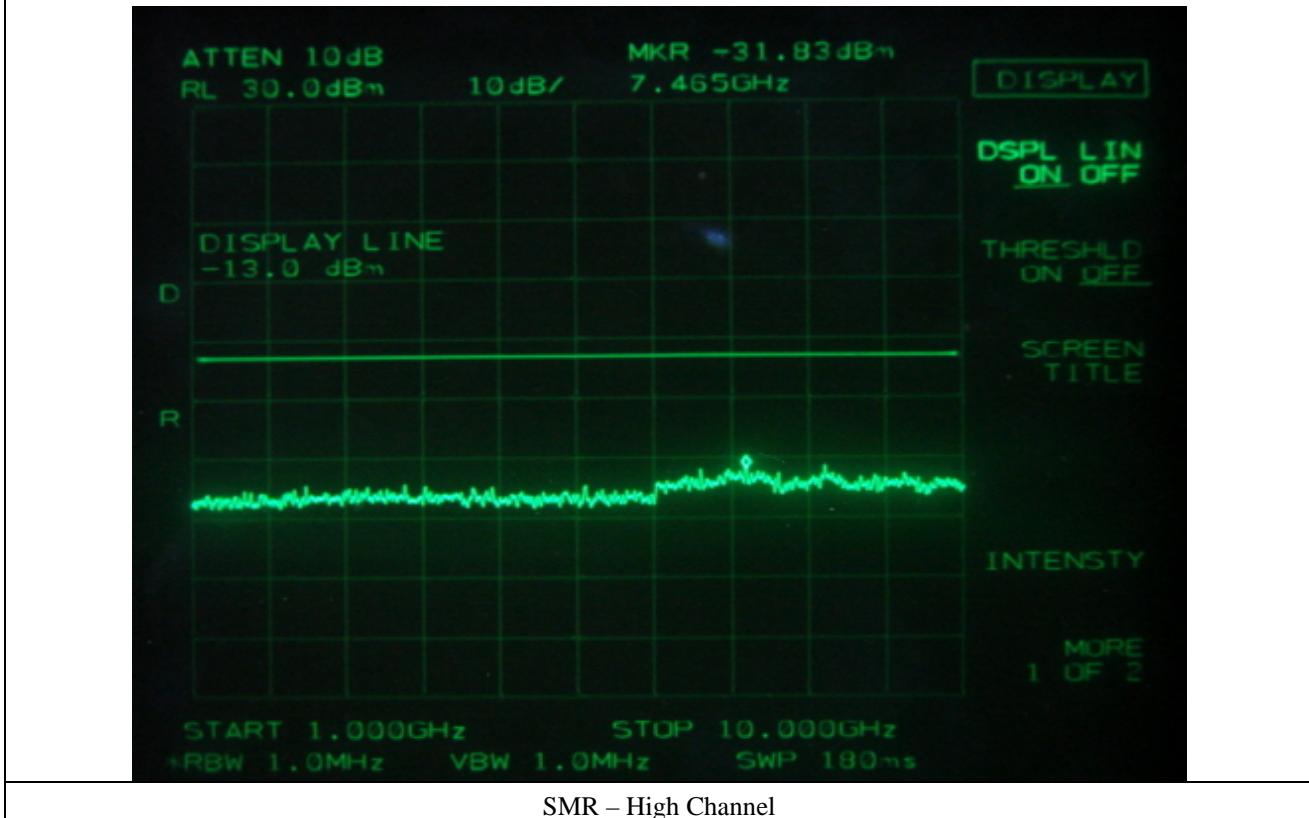
SMR – Low Channel



SMR – Low Channel



SMR – High Channel



SMR – High Channel

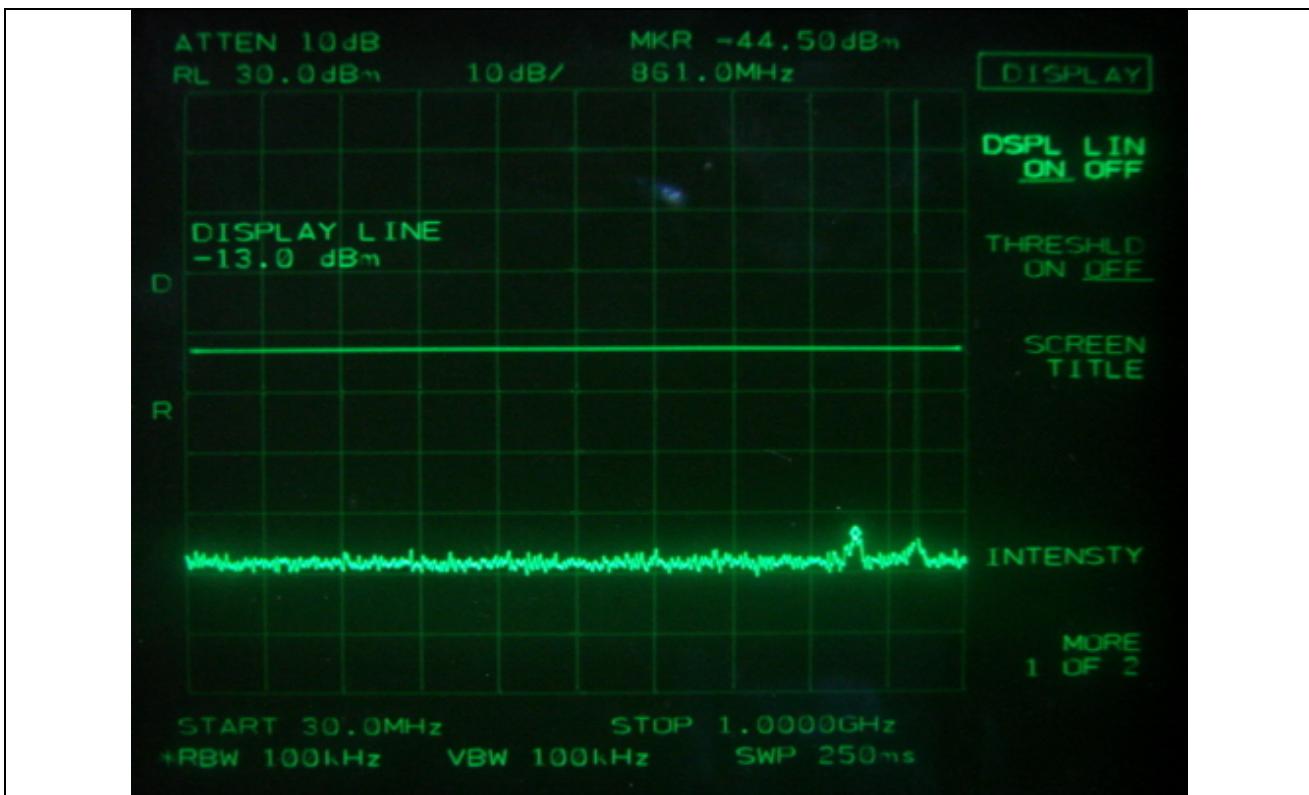
7.4.4 Test Result for 900I+PA (940 MHz ~ 941 MHz)

- . Test Date : May 25, 2012
- . Frequency range : 30 MHz ~ 20 GHz
- . Result : PASSED BY -15.50 dB at Middle channel of SMR Mode

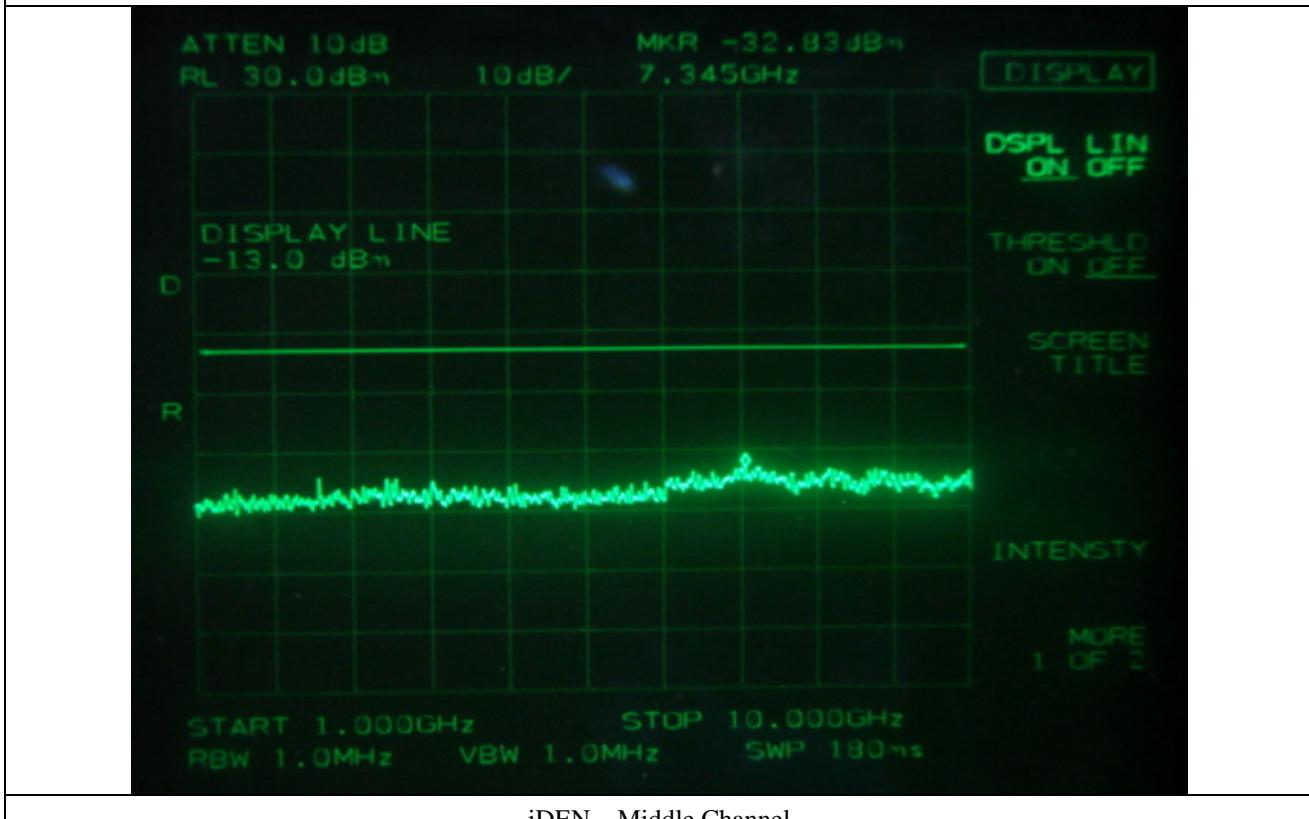
Modulation	Harmonic Frequency (MHz)	Measured Value (dBm)	Cable Loss (dB)	Total (dBm)	Limit (dBm)	Margin (dB)
iDEN	Middle	861.00	-44.50	0.50	-44.00	-31.00
		7345.00	-32.83	3.50	-29.33	
SMR	Middle	865.80	-43.67	0.50	-43.17	-30.17
		7480.00	-32.00	3.50	-28.50	

According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P) \text{ dBc}$, equates to -13.0 dBm.

Tested by: Ki-Hong, Nam / Project Engineer



iDEN – Middle Channel



iDEN – Middle Channel