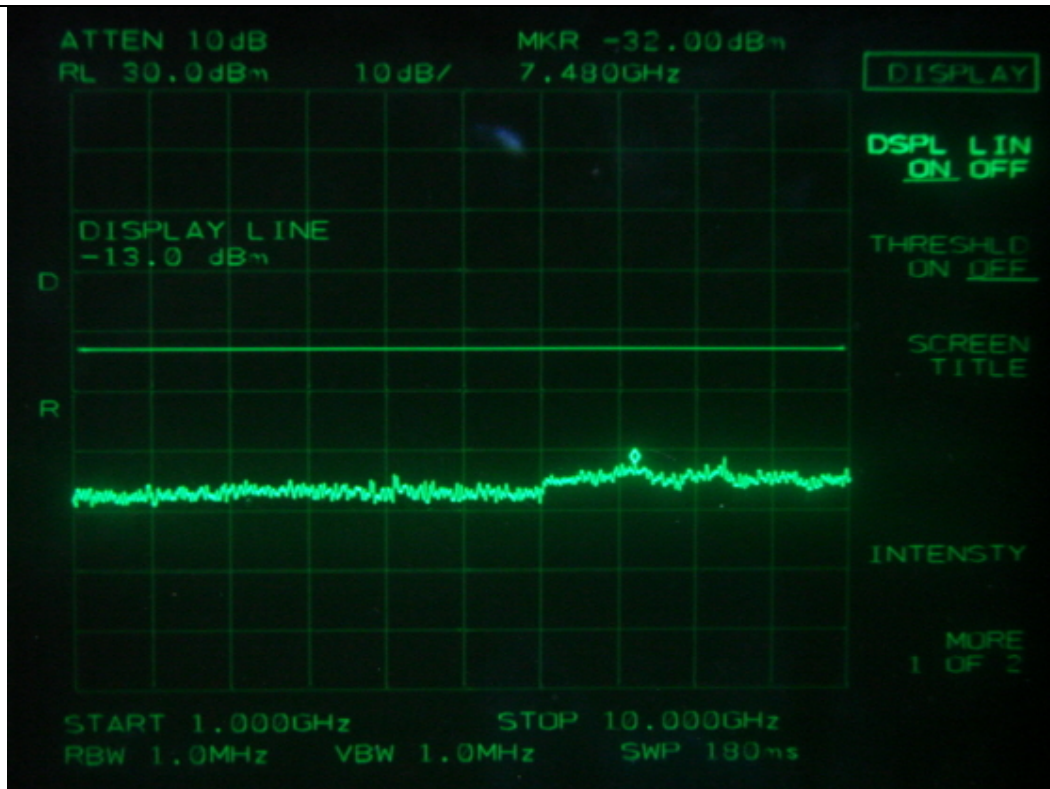


SMR – Middle Channel



SMR – Middle Channel

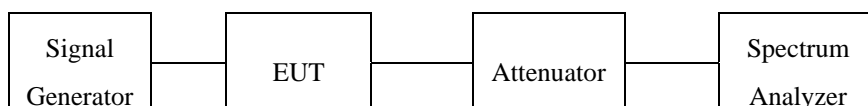
8. SPURIOUS EMISSION AT ANTENNA TERMINAL AT BLOCK EDGES ± 1 MHz

8.1 Operating environment

Temperature : 25 °C
Relative humidity : 50 %R.H.

8.2 Test set-up for conducted measurement

The RF signal from the signal generator(s) was injected the EUT by cable. The amplified RF signal at the output of the EUT was connected to the spectrum analyzer. The test was performed at three frequencies (low, middle, and high channels) at each band using all applicable modulation.



8.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■-	E4432B	HP	Signal Generator	US38440950	June 10, 2011 (1Y)
■ -	SMJ100A	R/S	Signal Generator	101038	Feb. 01, 2012 (1Y)
■ -	FSP	R/S	Spectrum Analyzer	100017	Mar. 12, 2012 (1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	Jun. 10, 2011 (1Y)
□ -	FSV30	R/S	Spectrum Analyzer	101372	Aug. 29, 2011 (1Y)
■ -	67-30-43	Aeroflex Weinschel	Power Attenuator	CA5760	Nov. 30, 2011 (1Y)

All test equipment used is calibrated on a regular basis.

8.4 Test data

8.4.1 Test Result for 800PS

-. Test Date : May 23, 2012

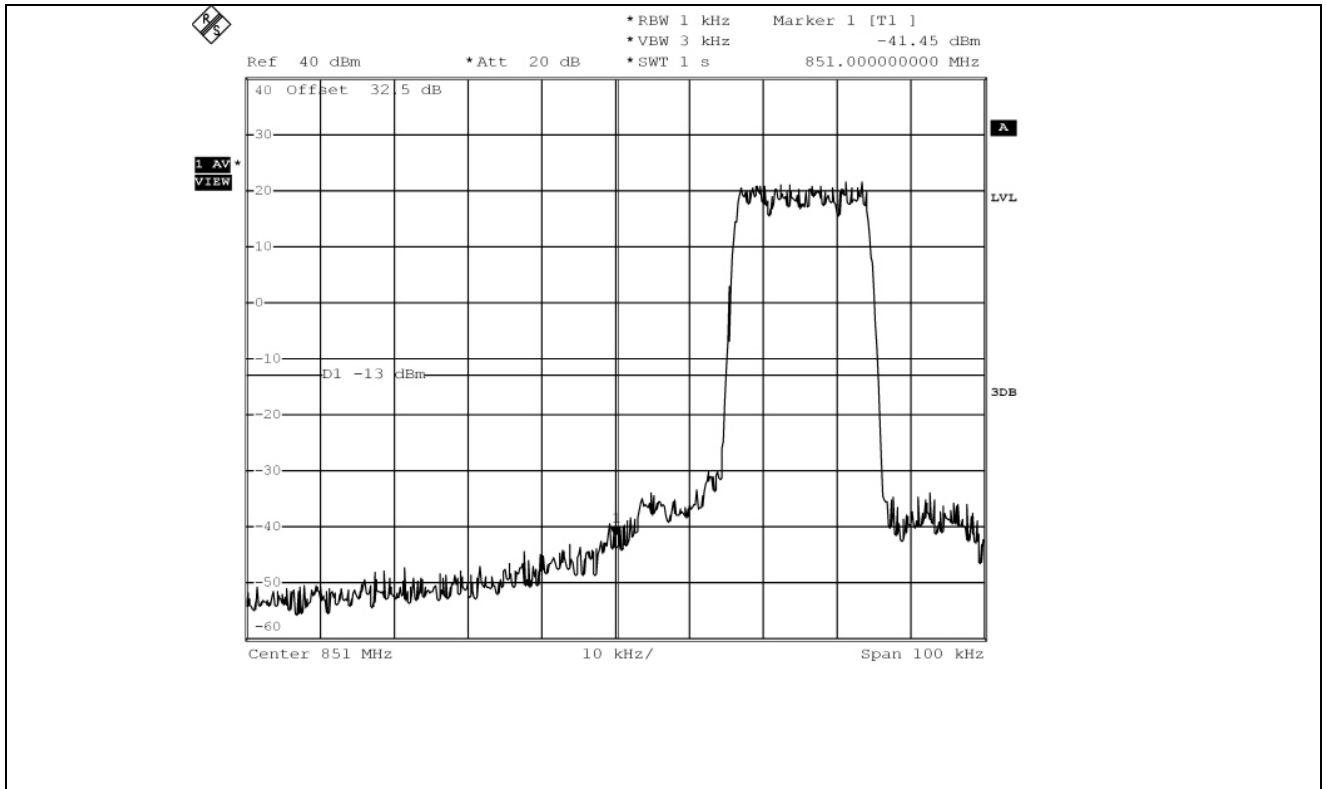
-. Result : PASSED BY -35.67 dB at High channel of LTE Mode

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)
iDEN	Low	851.000	-41.45	-13.00
	High	869.000	-41.41	
SMR	Low	851.000	-44.42	
	High	869.000	-48.74	
LTE	Low	851.000	-39.59	
	High	869.000	-35.67	

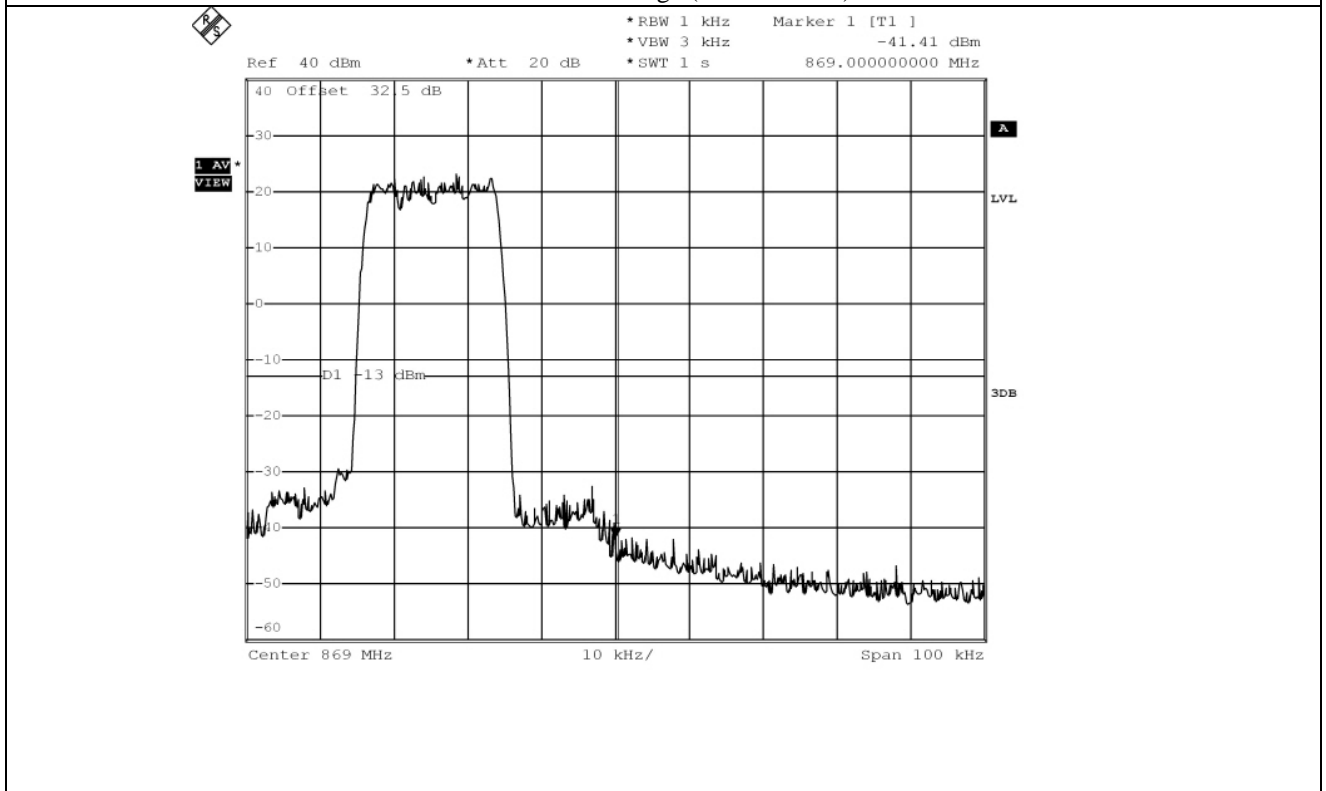
According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0dBm.



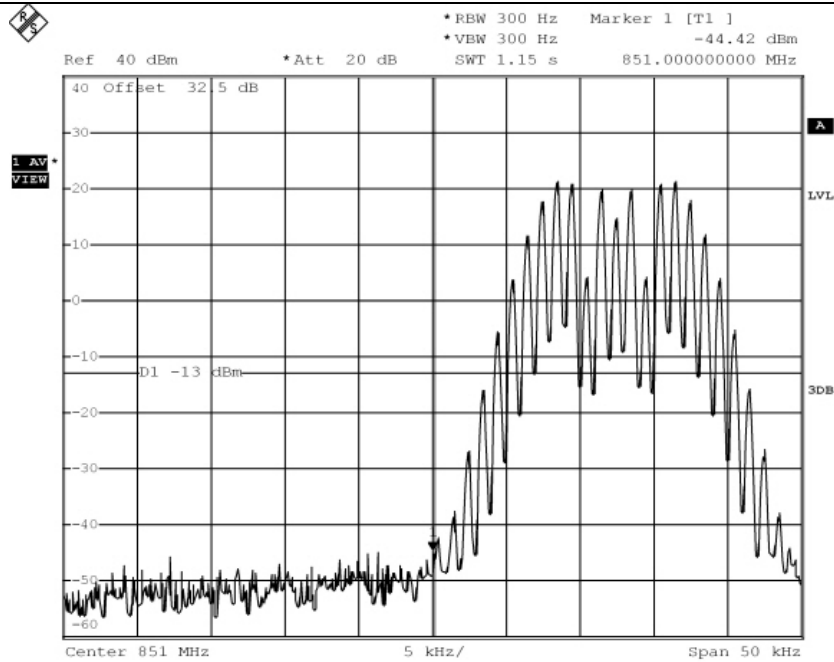
Tested by: Ki-Hong, Nam / Project Engineer



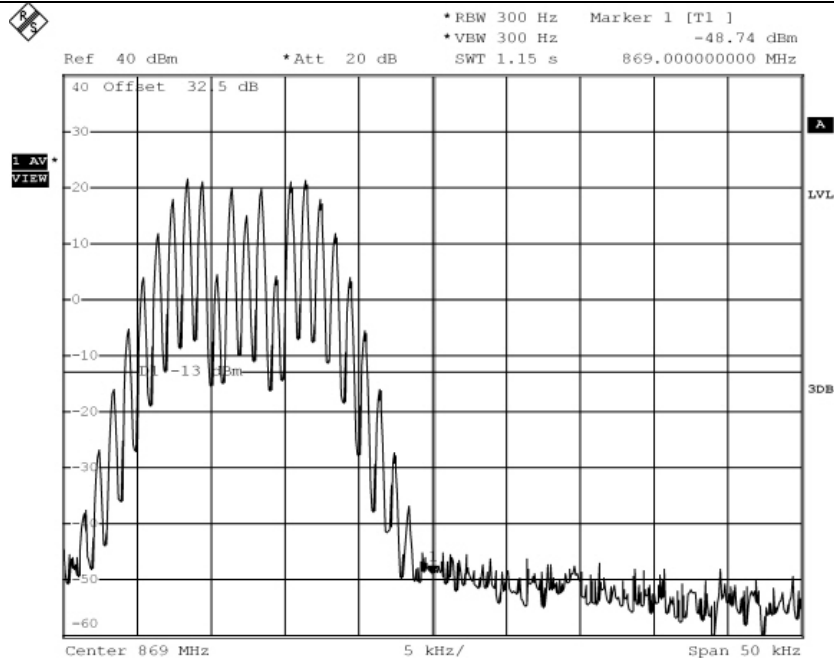
iDEN – Band Edge (Low Channel)



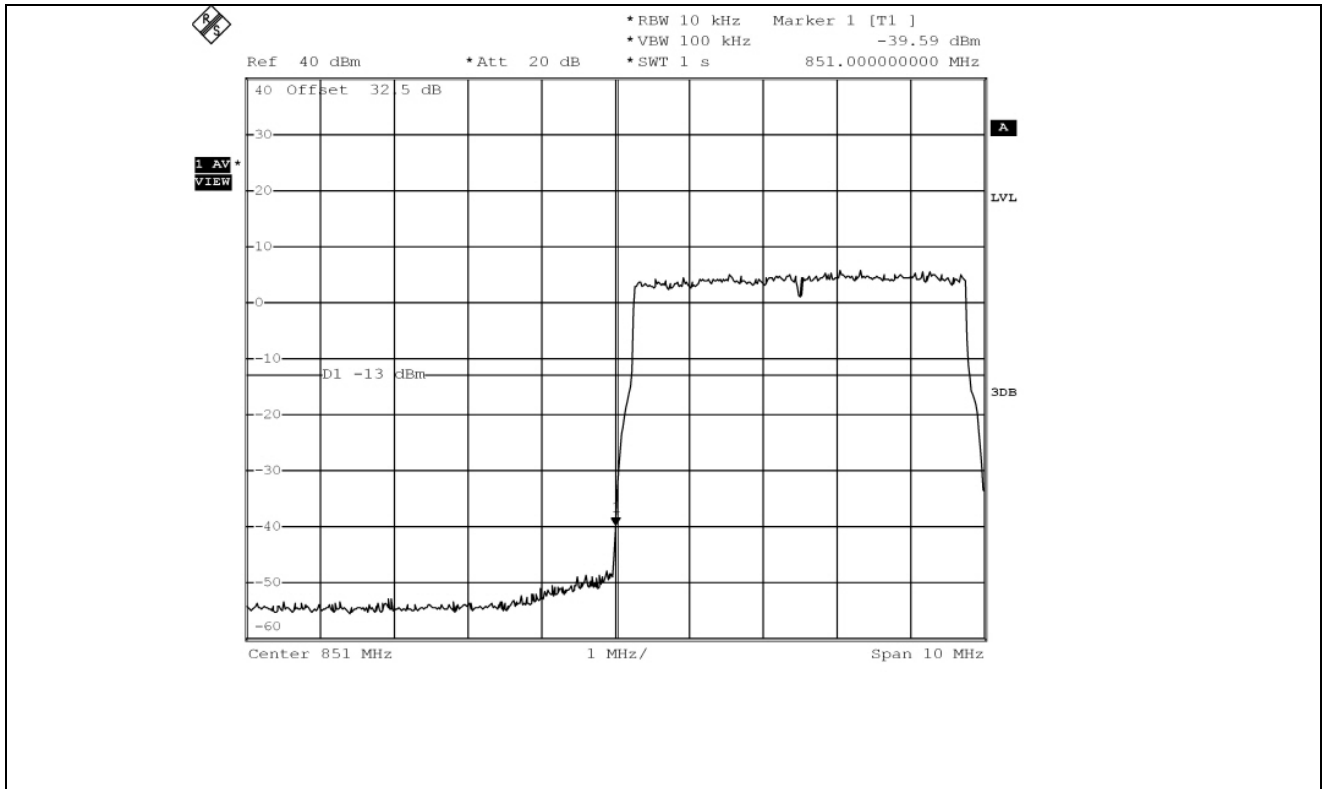
iDEN – Band Edge (High Channel)



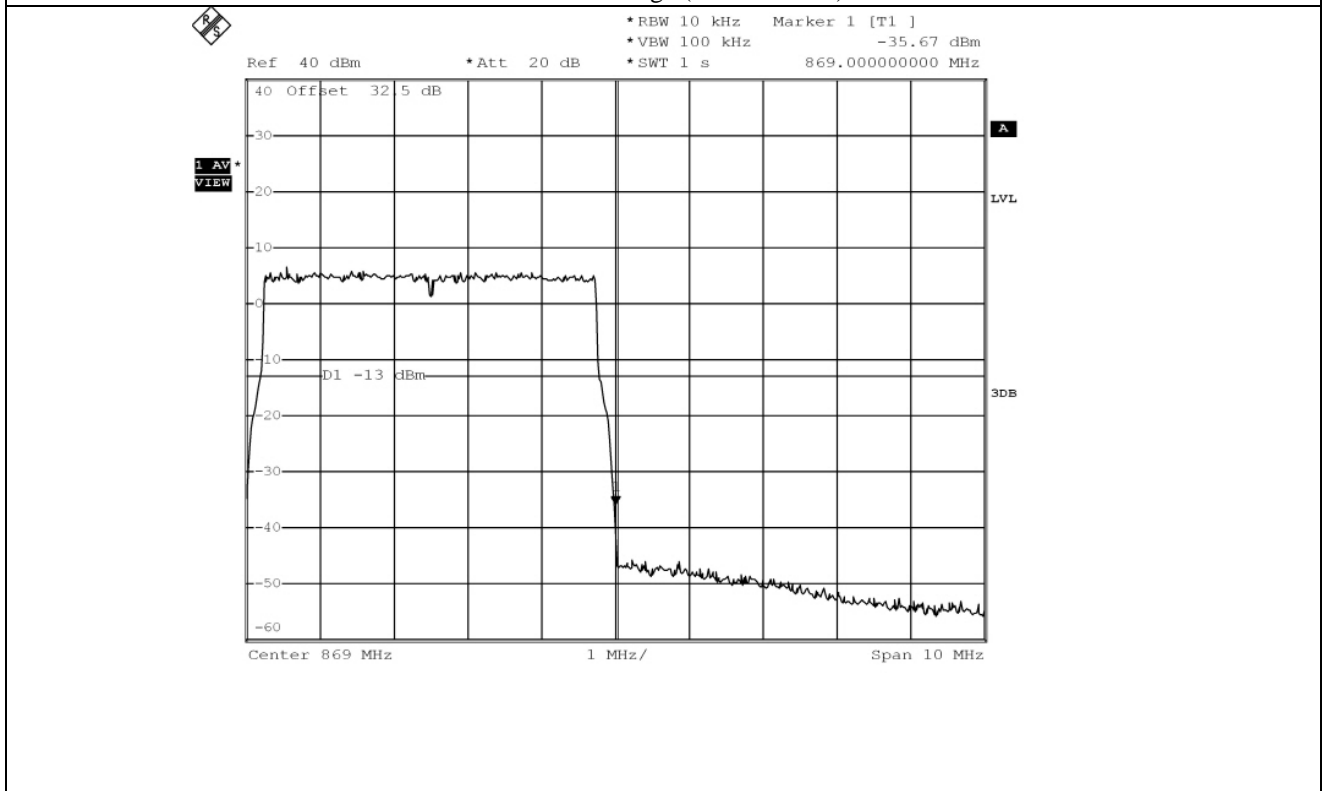
SMR – Band Edge (Low Channel)



SMR – Band Edge (High Channel)



LTE – Band Edge (Low Channel)



LTE – Band Edge (High Channel)

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

-. Test Date : May 25, 2012

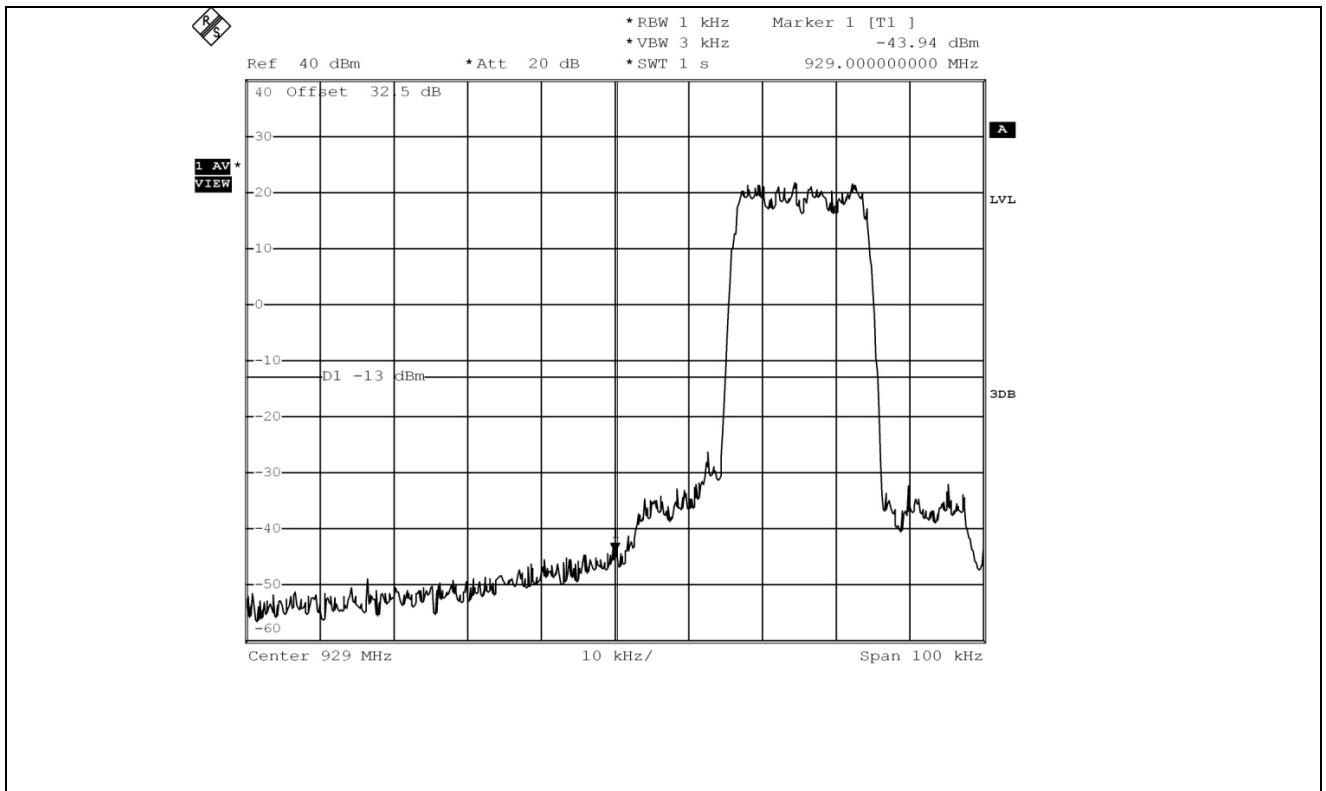
-. Result : PASSED BY -43.94 dB at low channel of SMR Mode

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)
iDEN	Low	929.000	-46.36	-13.00
	High	930.000	-44.38	
SMR	Low	929.000	-43.94	
	High	930.000	-44.21	

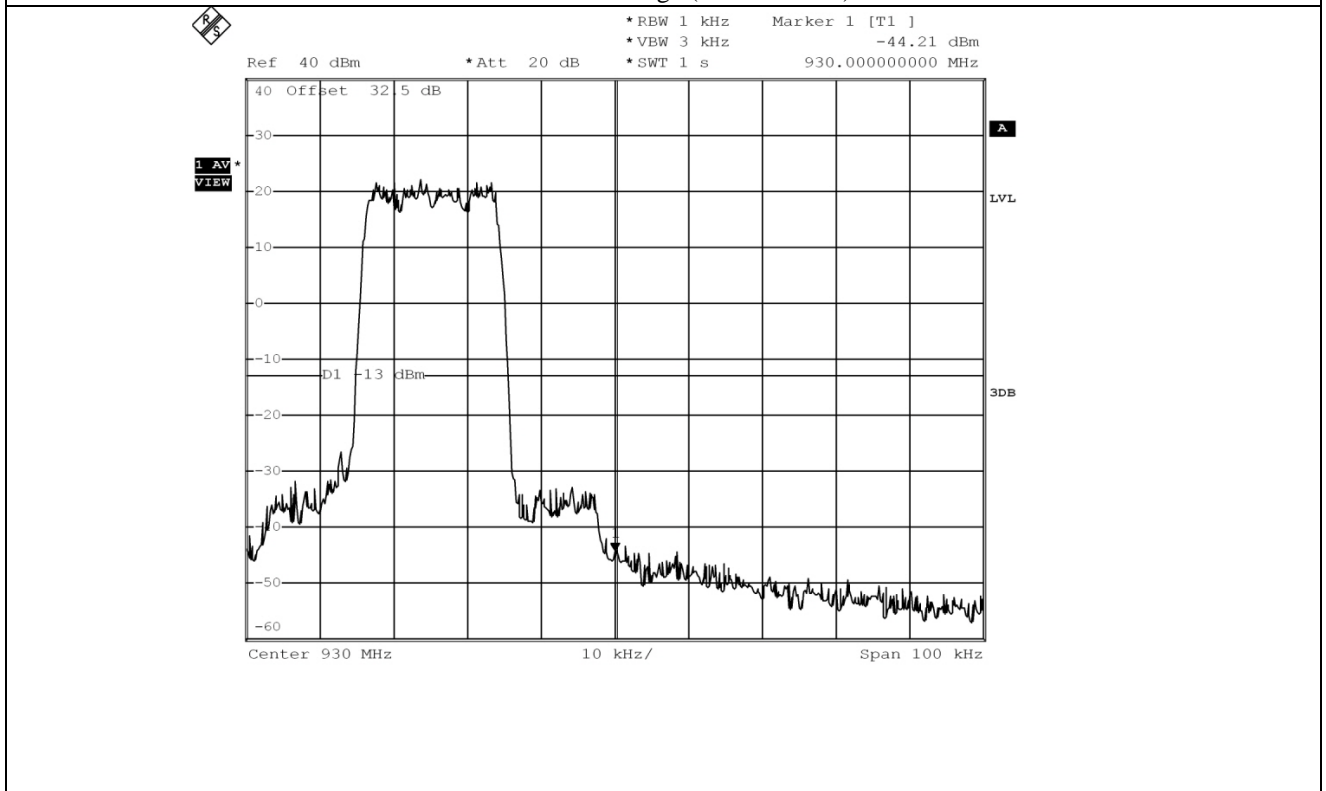
According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0dBm.



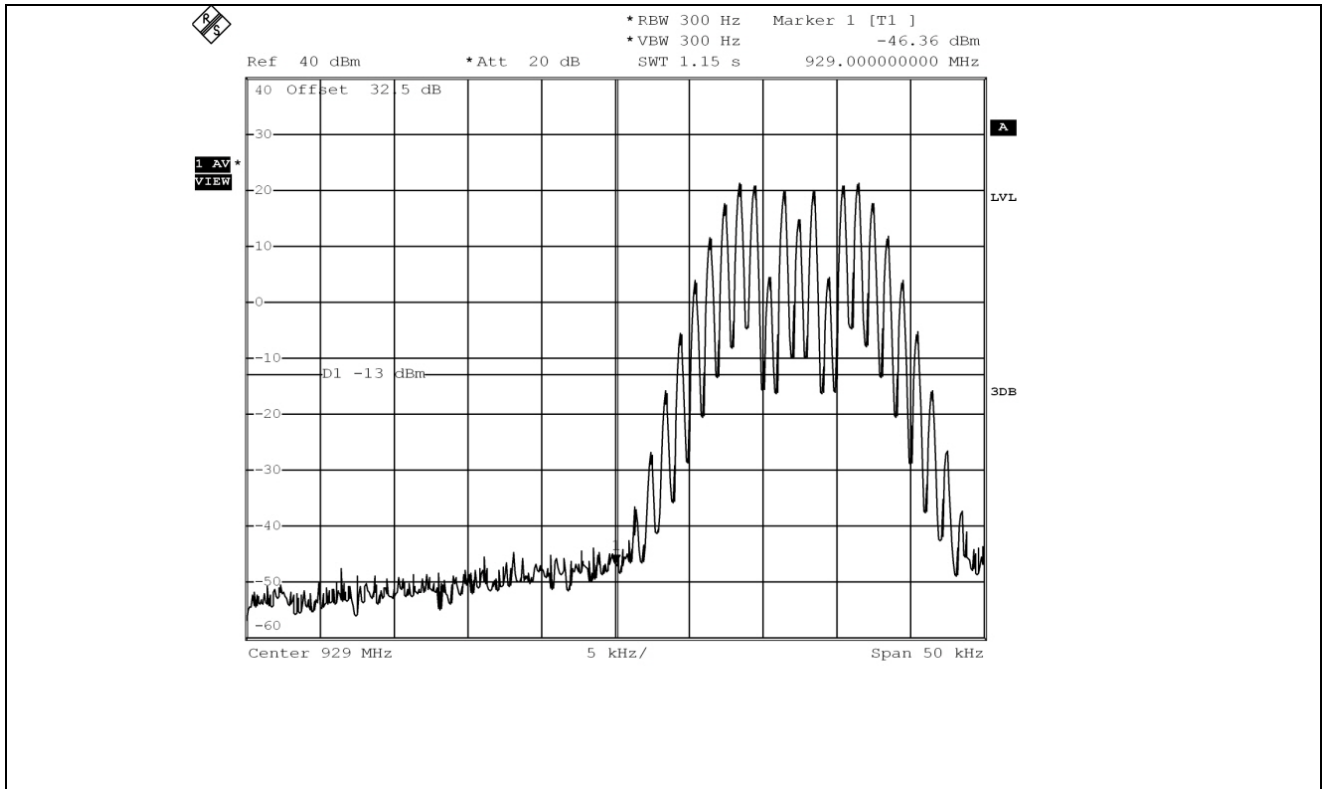
Tested by: Ki-Hong, Nam / Project Engineer



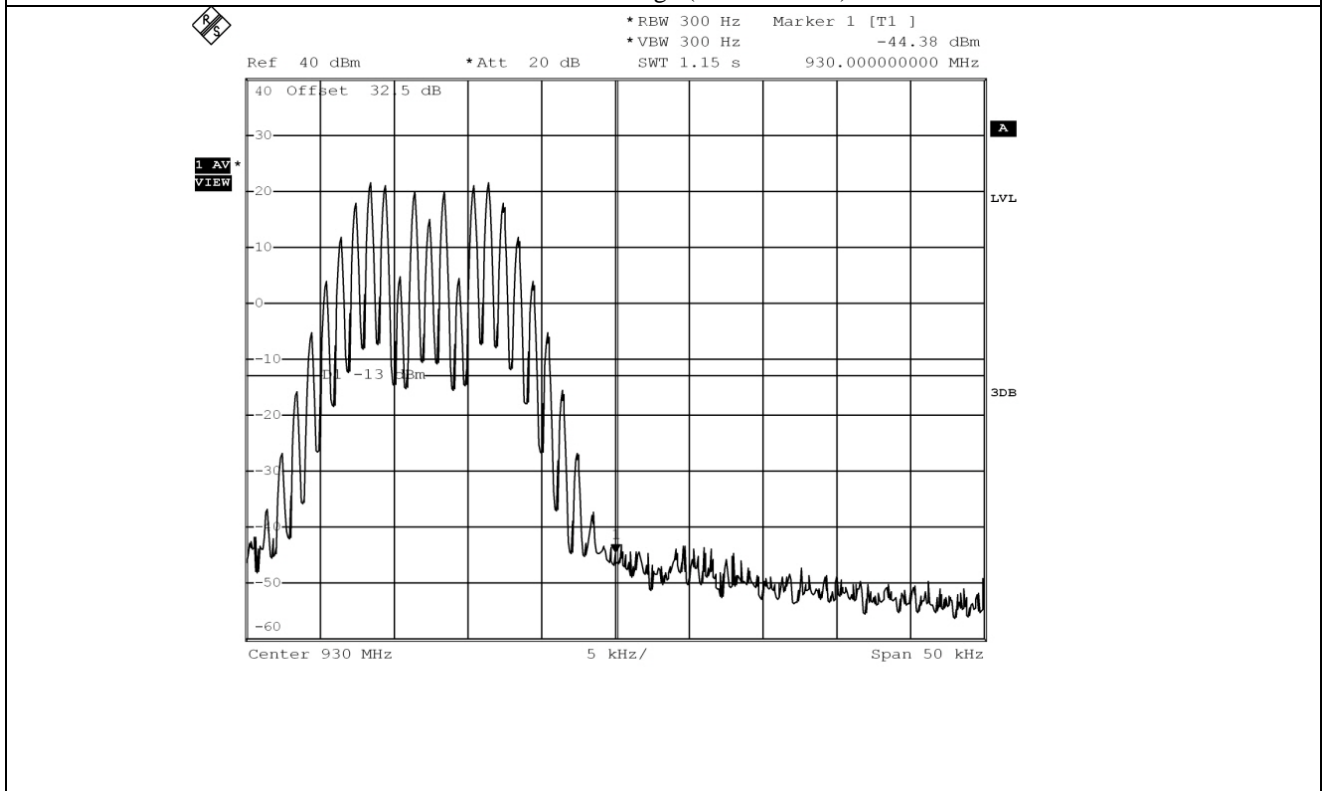
iDEN – Band Edge (Low Channel)



iDEN – Band Edge (High Channel)



SMR – Band Edge (Low Channel)



SMR – Band Edge (High Channel)


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

-. Test Date : May 25, 2012

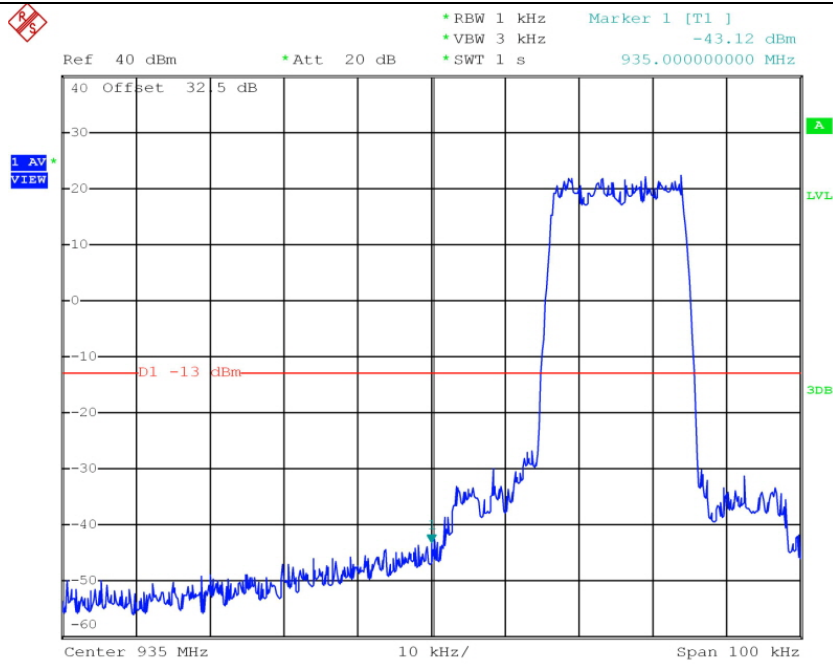
-. Result : PASSED BY -43.06 dB at High channel of iDEN Mode

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)
iDEN	Low	935.000	-43.12	-13.00
	High	940.000	-43.06	
SMR	Low	935.000	-44.09	
	High	940.000	-44.52	

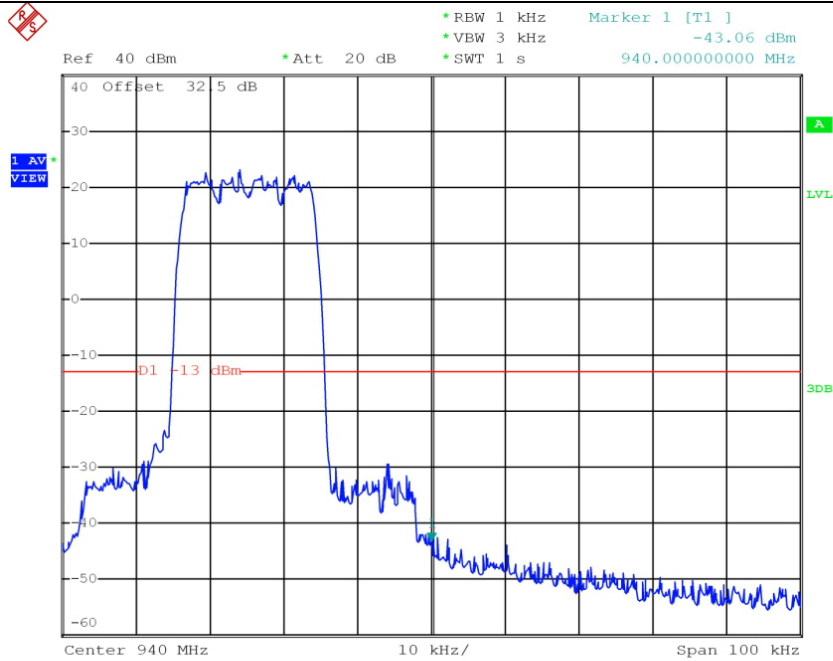
According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0dBm.



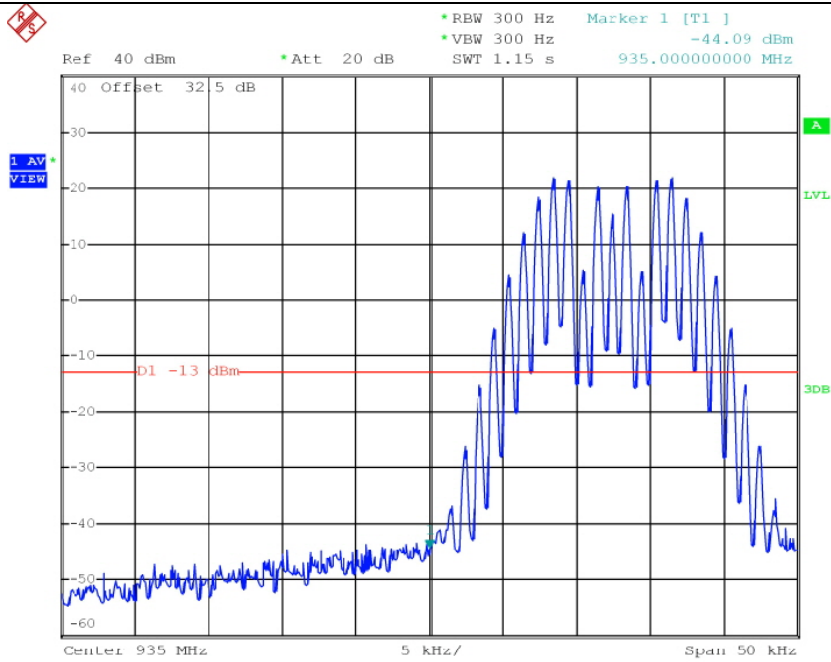
Tested by: Ki-Hong, Nam / Project Engineer



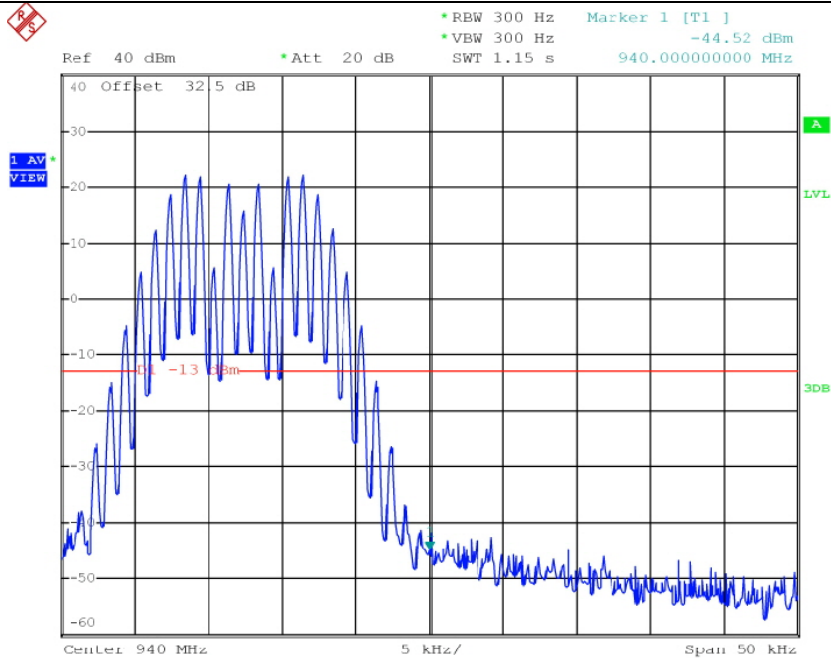
iDEN – Band Edge (Low Channel)



iDEN – Band Edge (High Channel)



SMR – Band Edge (Low Channel)



SMR – Band Edge (High Channel)

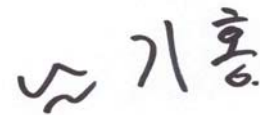
8.4.4 Test Result for 900I+PA (940 MHz ~ 941 MHz)

-. Test Date : May 25, 2012

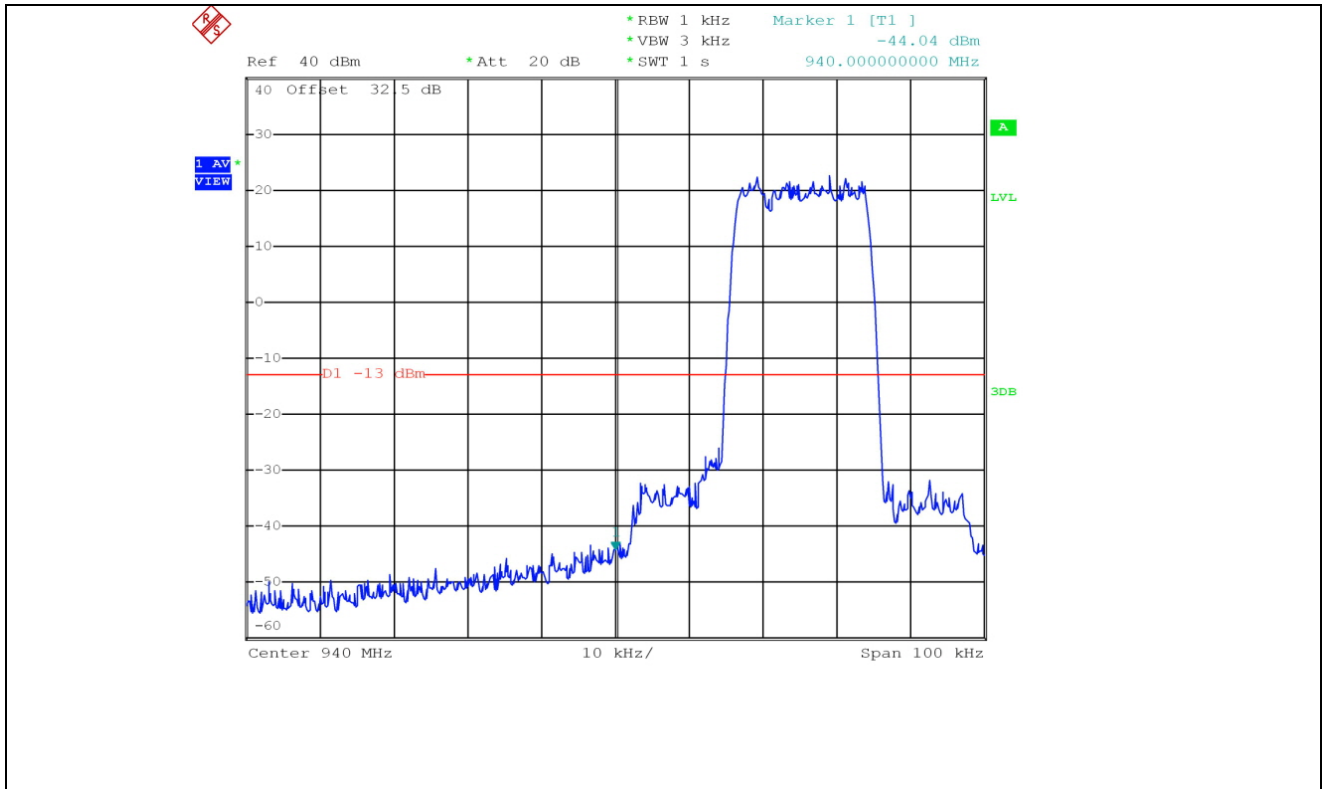
-. Result : PASSED BY -41.44 dB at High channel of iDEN Mode

Modulation	Channel	Measured Frequency (MHz)	Max. Measured Value (dBm)	Limit (dBm)
iDEN	Low	940.000	-44.04	-13.00
	High	941.000	-41.44	
SMR	Low	940.000	-44.49	
	High	941.000	-43.02	

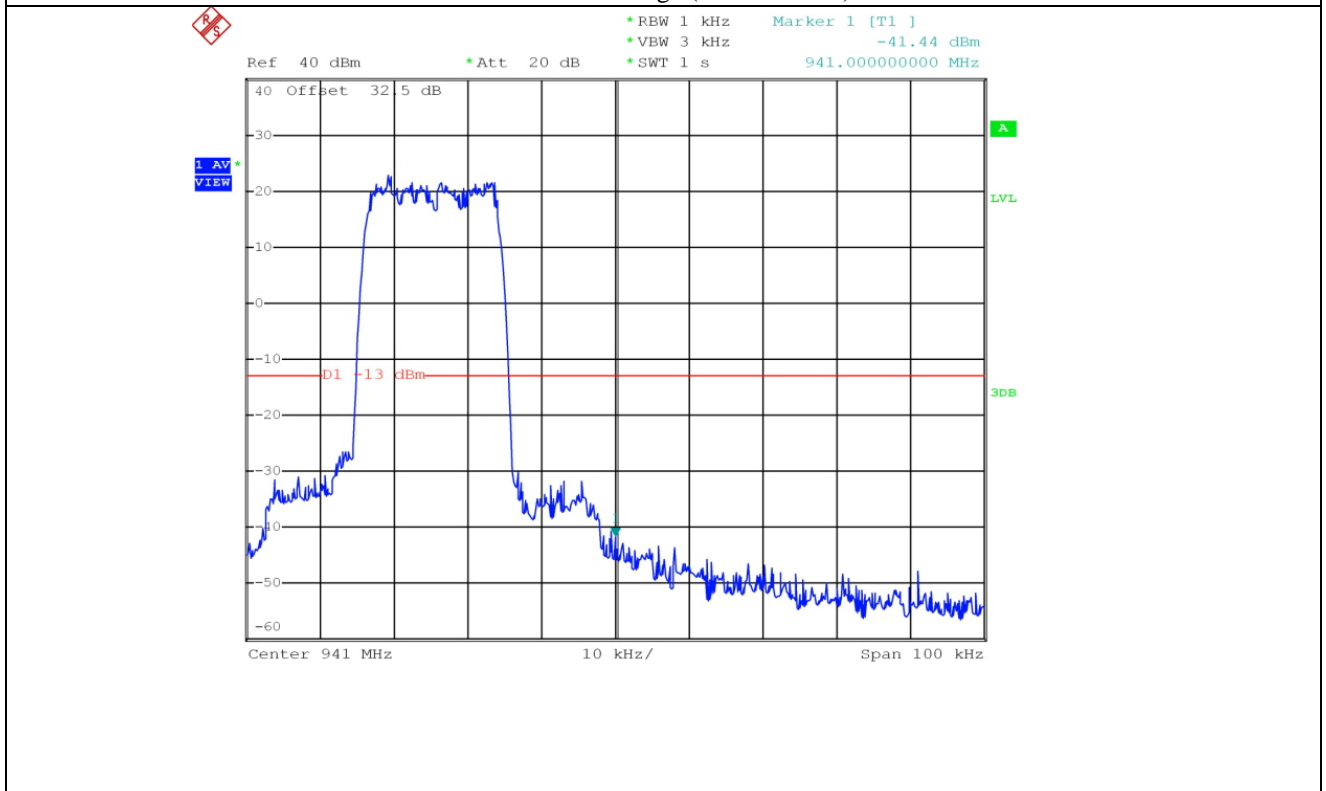
According to Part 90I, out of band emission shall be attenuated by $43 + 10 \log (P)$ dBc, equates to -13.0dBm.



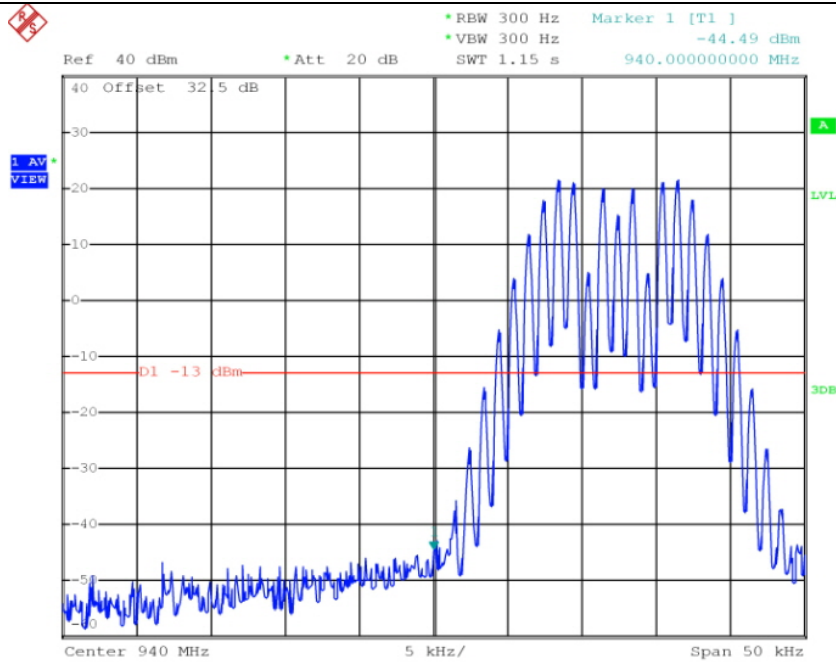
Tested by: Ki-Hong, Nam / Project Engineer



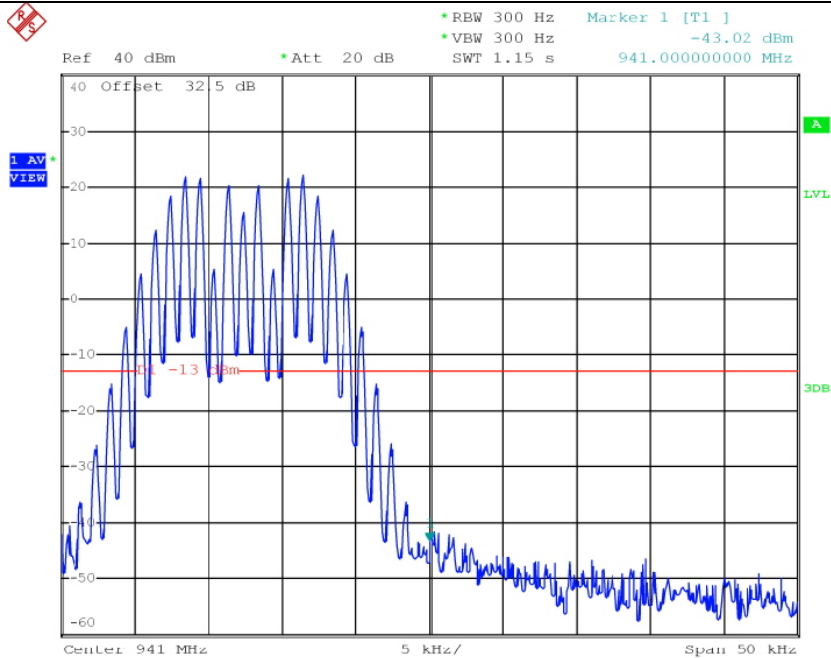
iDEN – Band Edge (Low Channel)



iDEN – Band Edge (High Channel)



SMR – Band Edge (Low Channel)



SMR – Band Edge (High Channel)