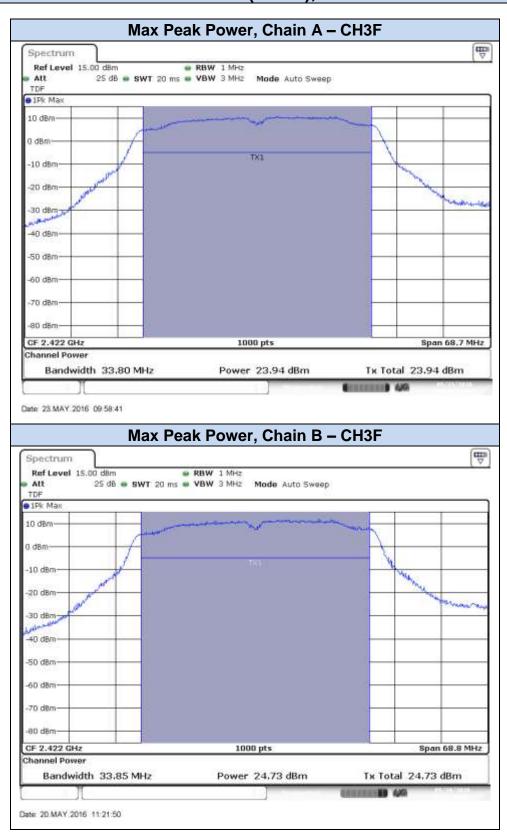
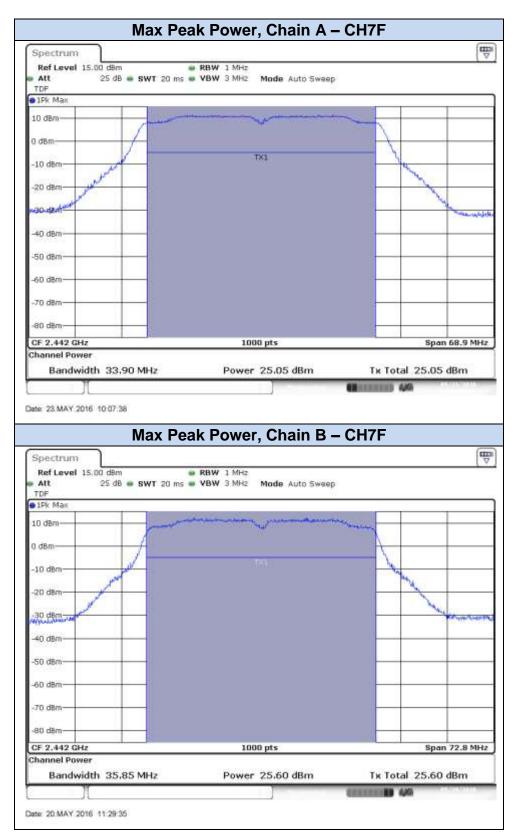


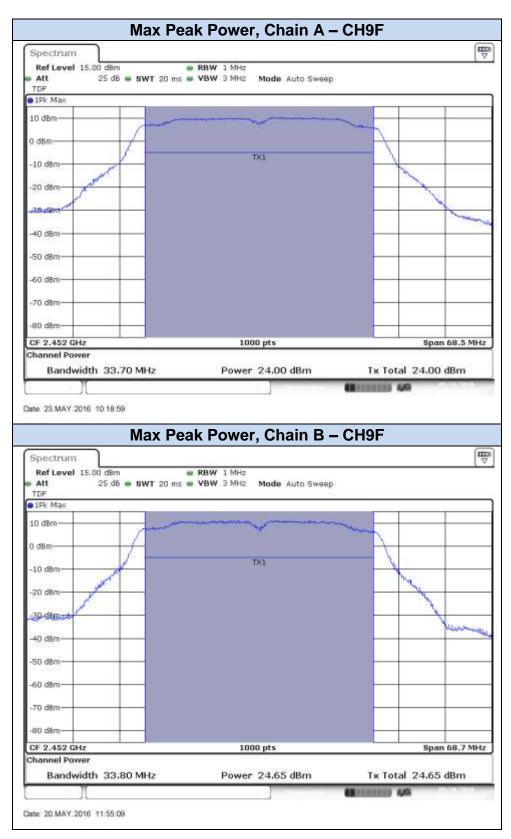


802.11n40 (MIMO), HT8

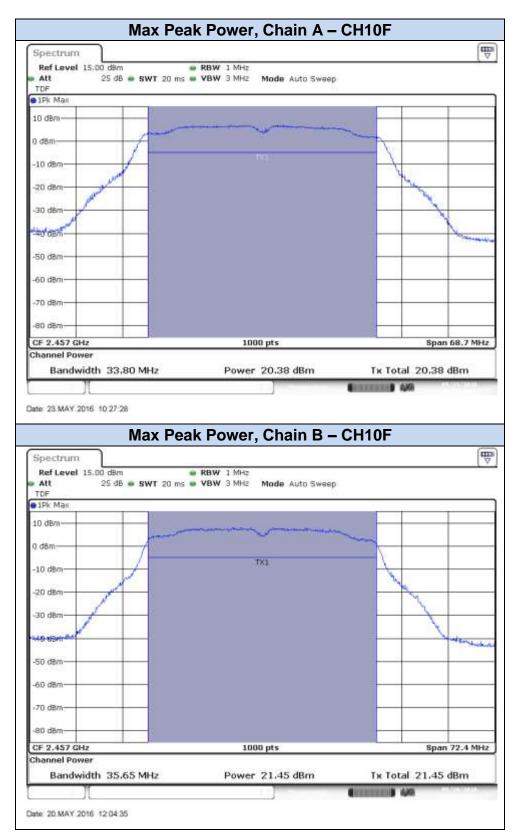




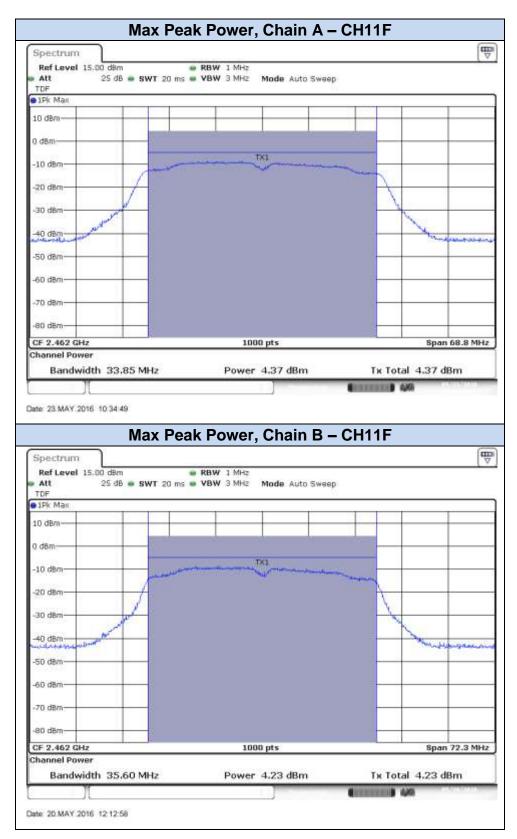














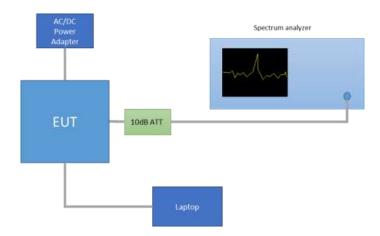
B.3 Out-of-band emissions (conducted)

Test limits:

FCC part	RSS part	Limits				
15.247 (d)	RSS-247 Clause 5.5	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.				
15.209	RSS-247 Clause 6.2.2 (2)	the peak conducted power limits. Radiated emissions which fall in the restricted bands, as defined §15.205(a), must also comply with the radiated emission limit specified in §15.209(a): Freq Range				

Test procedure:

The setup below was used to measure the out-of-band emissions. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.





The Band Edge High, was measured using the method according to point 13.3 (Integration Method) of KDB 558074 D01 DTS Meas Guidance v03r05.

In case of Band Edge measurements falling in restricted bands, the declared Antenna Gain is also compensated in the graph. The declared maximum antenna gain is 3.24dBi.

For Band Edge measurements falling in restricted bands, the following limits in dBm were applied for the average detector after the conversion from the limits detailed above in dB μ V/m, according to FCC 47 CFR part 15 - Subpart C – §15.209(a). The limits in dBm for peak detector are 20dB above the indicated values in the table.

§15.209(a)			Converted values		
Freq Range (MHz) Distance (m)		Field strength (microvolts/meter)	Field strength (dB microvolts/meter)	Power (dBm)	
Above 960	3	500	54.0	-41.2	

Note: these PSD_{Peak} values are shown just as a reference for the compliance of the Out-of-band Measurements. Thus the RBW used for these measurements was 100kHz.

Mode	Rate	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
	1Mbps	1	2412	SISO CHAIN A	11.33
				SISO CHAIN B	11.41
		7	2442	SISO CHAIN A	10.87
802.11b				SISO CHAIN B	10.63
		11	2462	SISO CHAIN A	10.94
				SISO CHAIN B	9.11
		12	2467	SISO CHAIN A	7.22
				SISO CHAIN B	6.96
		13	2472	SISO CHAIN A	-0.84
				SISO CHAIN B	-0.92
802.11g	6Mbps	1	2412	SISO CHAIN A	8.18
				SISO CHAIN B	8.56
		7	2442	SISO CHAIN A	9.92
				SISO CHAIN B	10.21
		11	2462	SISO CHAIN A	6.94
				SISO CHAIN B	6.34
		12	2467	SISO CHAIN A	1.22
				SISO CHAIN B	0.26
		13	2472	SISO CHAIN A	-14.77
				SISO CHAIN B	-13.09



Mode	Rate	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
		1	2412	SISO CHAIN A	7.92
				SISO CHAIN B	7.87
		7	2442	SISO CHAIN A	10.24
		7		SISO CHAIN B	9.96
	LITO	4.4	2462	SISO CHAIN A	7.11
	HT0	11		SISO CHAIN B	6.34
		40	2467	SISO CHAIN A	0.88
		12		SISO CHAIN B	0.52
		40	0.470	SISO CHAIN A	-13.60
000 44=00		13	2472	SISO CHAIN B	-13.34
802.11n20		4	0.110	MIMO CHAIN A	6.93
		1	2412	MIMO CHAIN B	7.47
		7	0440	MIMO CHAIN A	8.38
		7	2442	MIMO CHAIN B	8.18
		44	2.100	MIMO CHAIN A	6.21
	HT8	11	2462	MIMO CHAIN B	5.58
		40	2467	MIMO CHAIN A	0.58
		12		MIMO CHAIN B	0.11
		13	2472	MIMO CHAIN A	-16.70
				MIMO CHAIN B	-16.17
	НТО	3F	2422	SISO CHAIN A	5.49
				SISO CHAIN B	4.06
		7F	2442	SISO CHAIN A	6.86
				SISO CHAIN B	3.60
		9F	2452	SISO CHAIN A	3.76
				SISO CHAIN B	3.74
		10F	2457	SISO CHAIN A	-0.46
				SISO CHAIN B	0.02
		11F	2462	SISO CHAIN A	-15.63
802.11n40				SISO CHAIN B	-15.80
002.111140	НТ8	3F	2422	MIMO CHAIN A	1.77
				MIMO CHAIN B	2.18
		7F	2442	MIMO CHAIN A	3.20
				MIMO CHAIN B	3.15
		9F	2452	MIMO CHAIN A	2.30
				MIMO CHAIN B	2.72
		10F	2457	MIMO CHAIN A	-1.16
				MIMO CHAIN B	-1.32
		11F	2462	MIMO CHAIN A	-17.08
				MIMO CHAIN B	-17.99

intel

Band Edge results Screenshot:

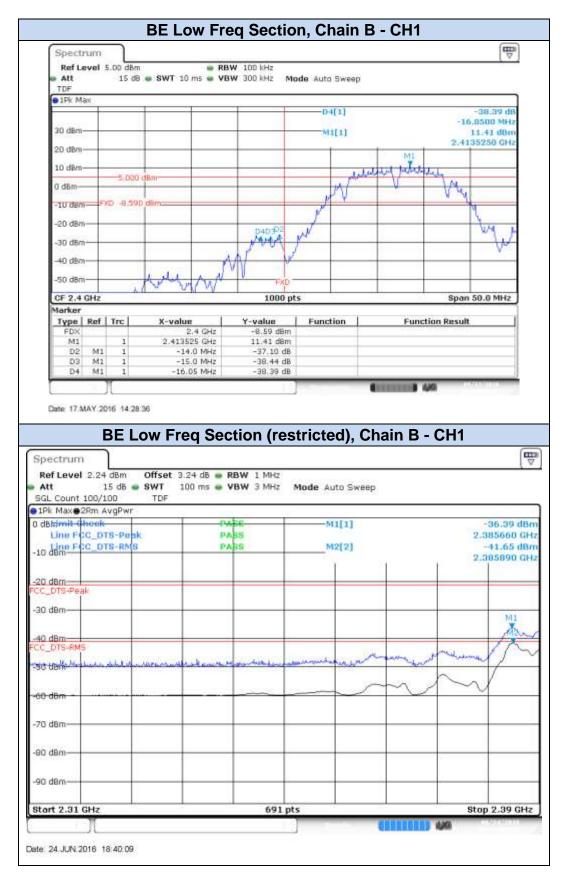
802.11b, 1Mbps















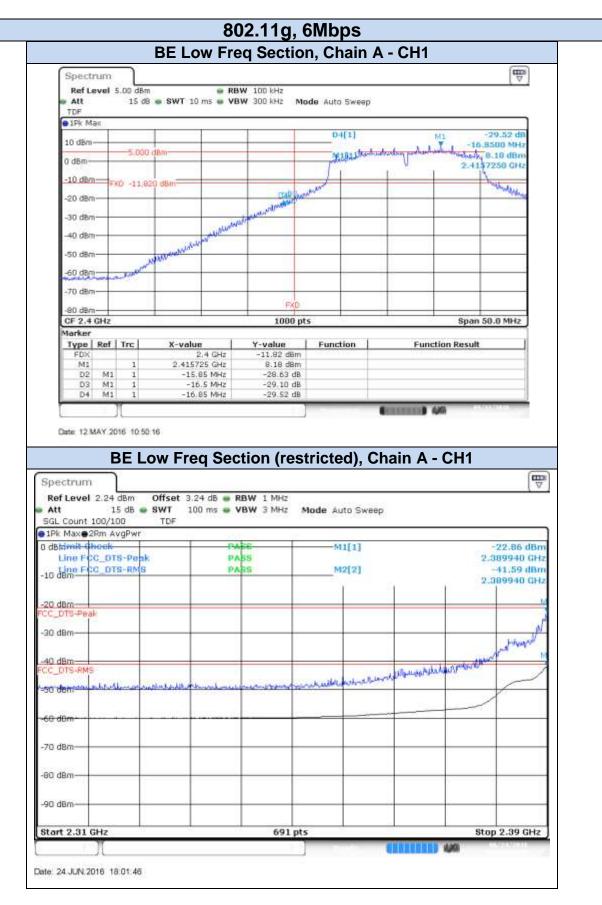






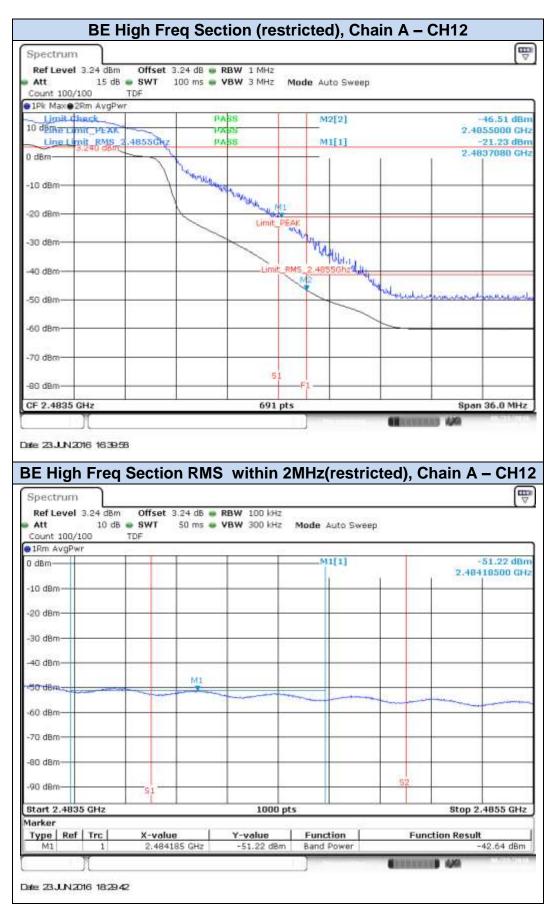








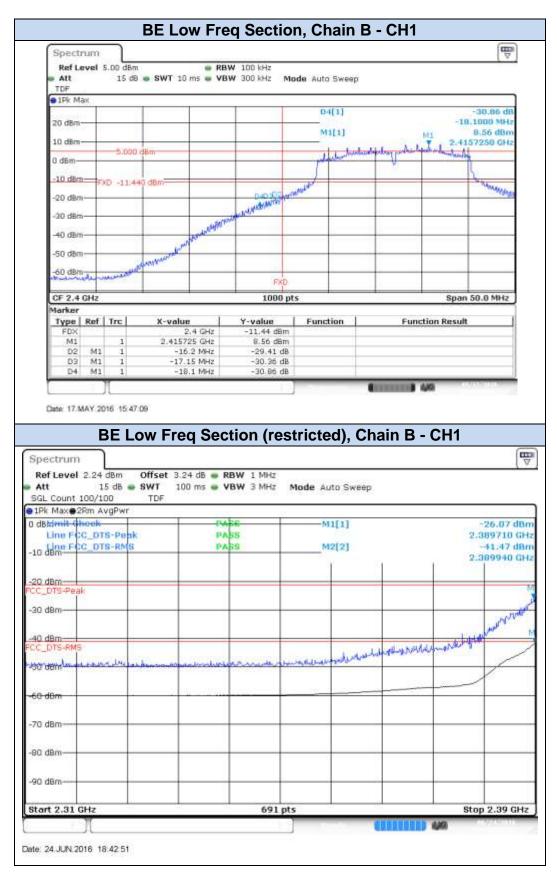






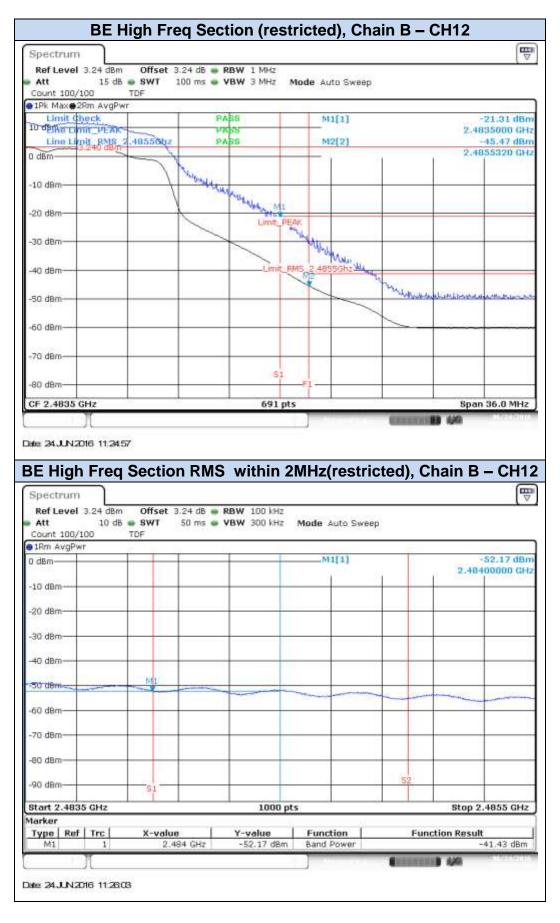










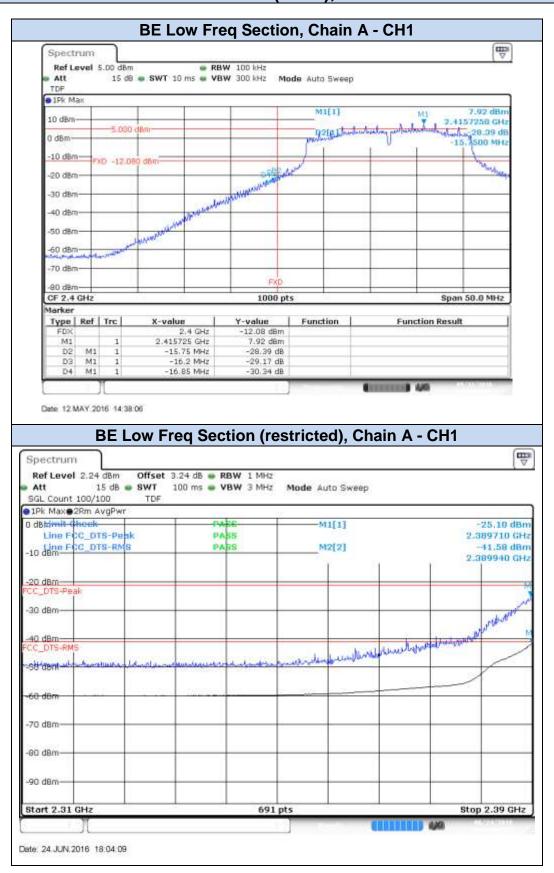


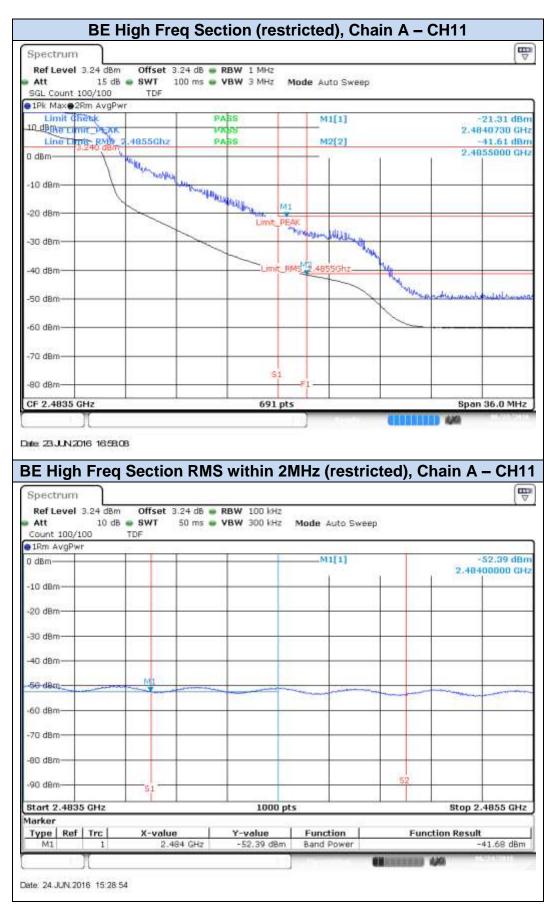




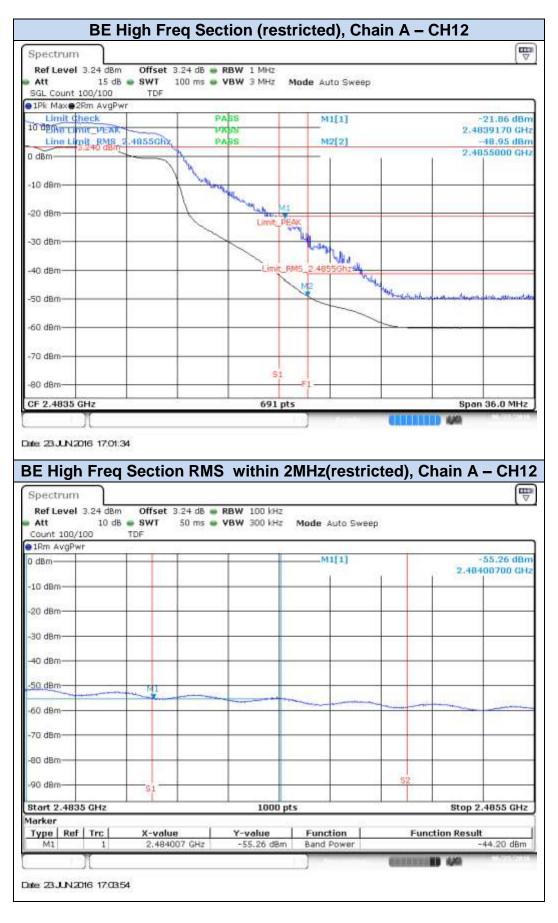
(intel)

802.11n20 (SISO), HT0

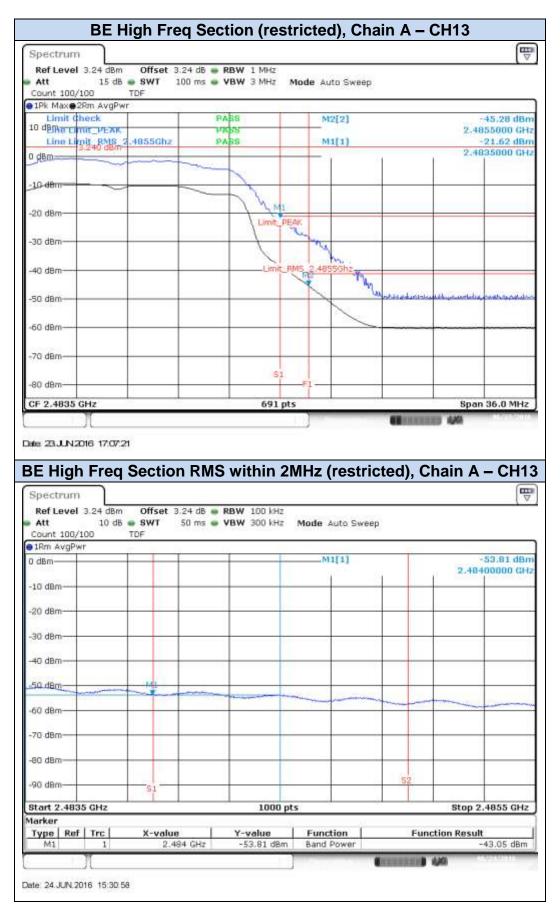




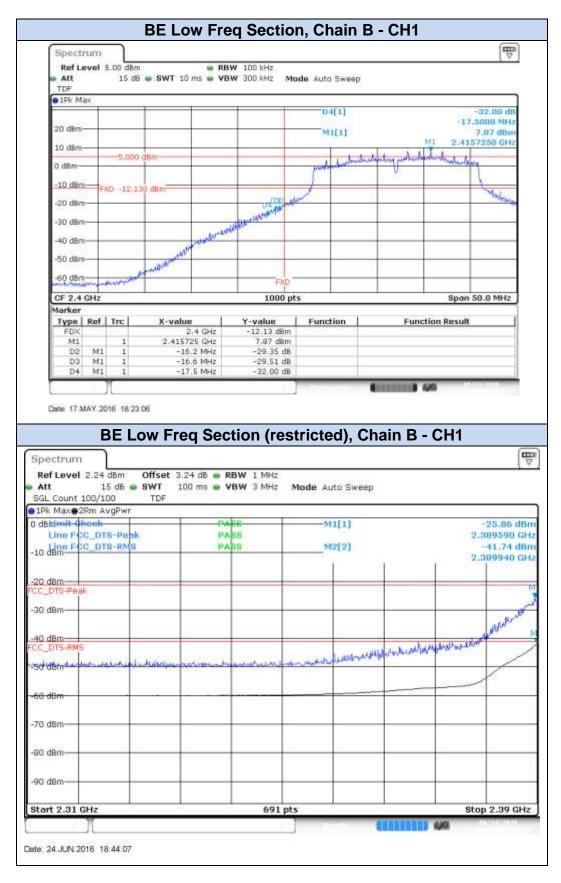












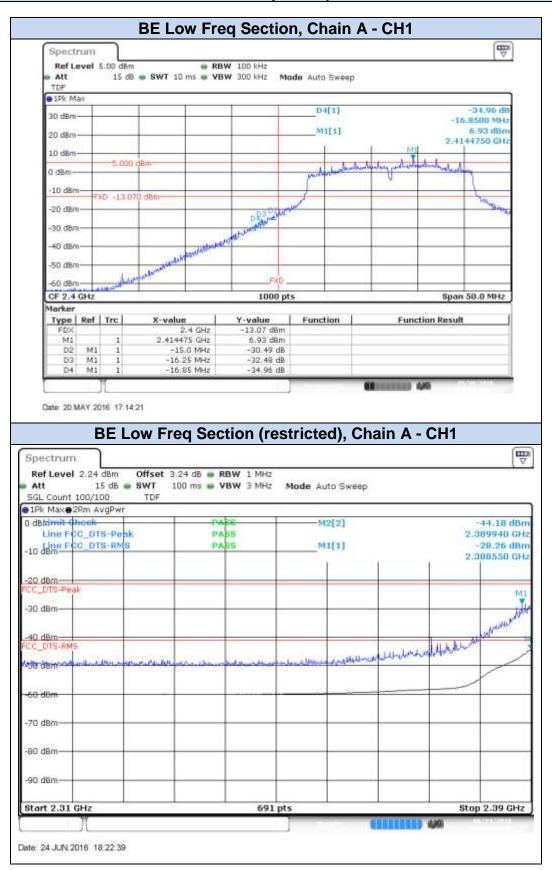


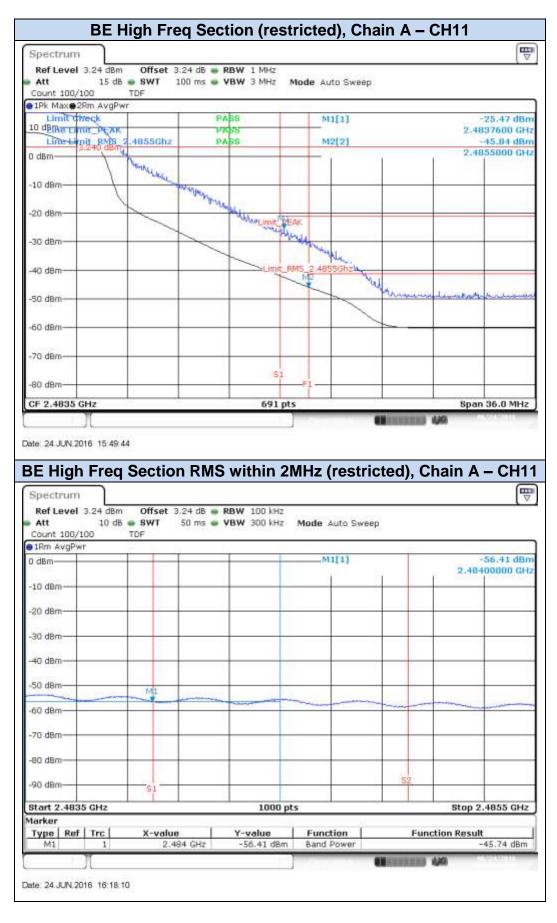




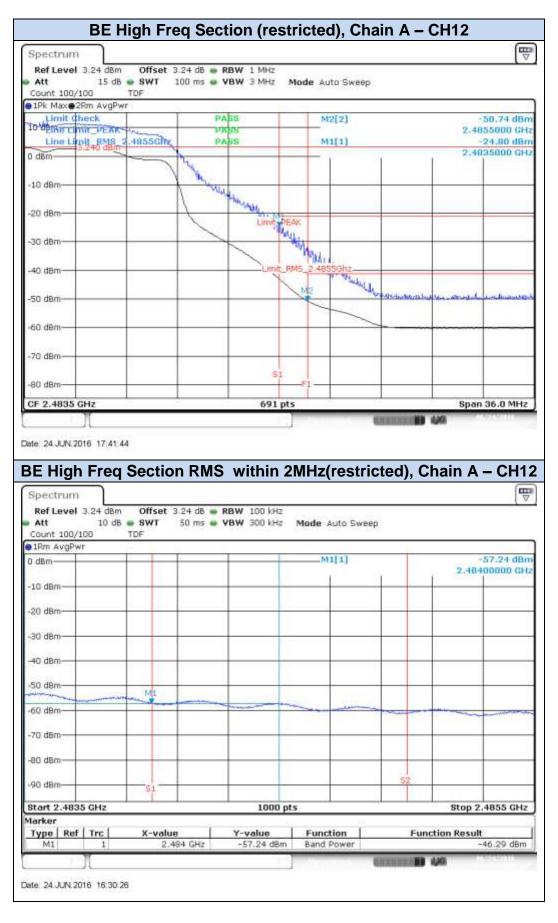


802.11n20 (MIMO), HT8





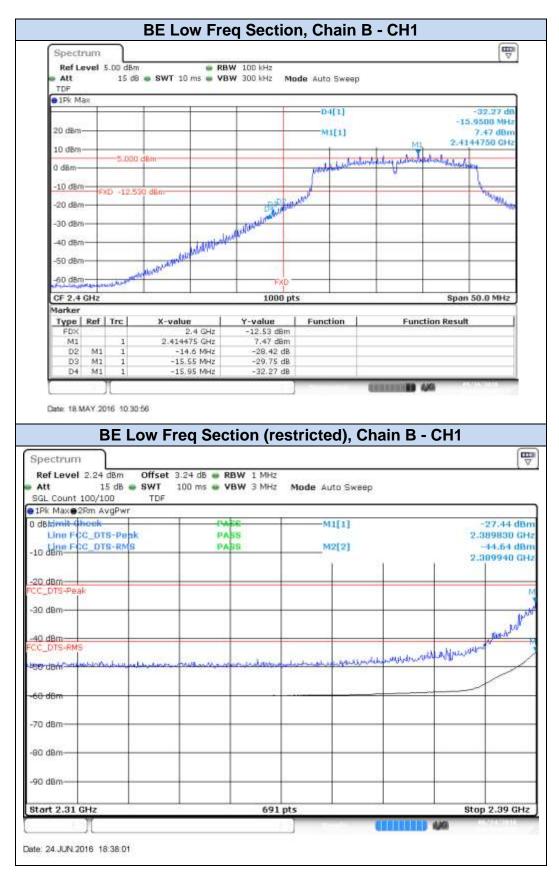








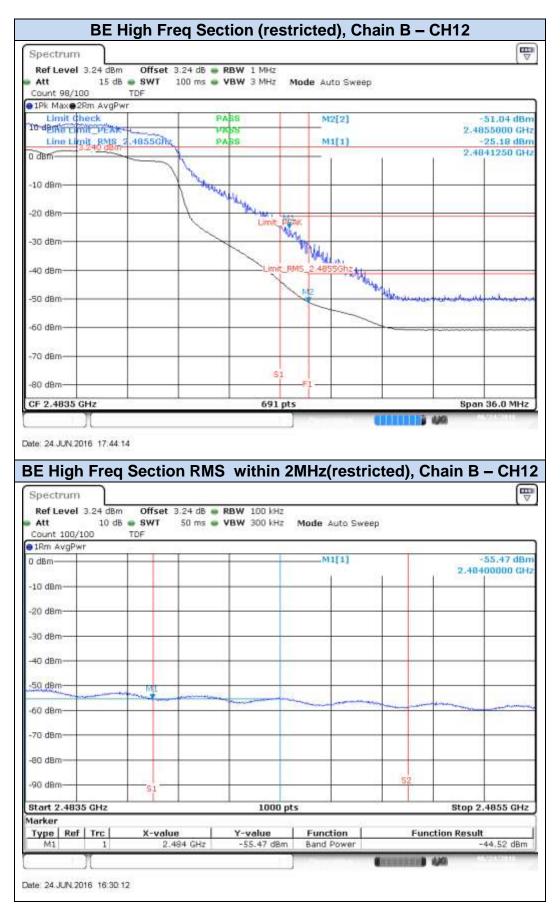


















802.11n40 (SISO), HT0

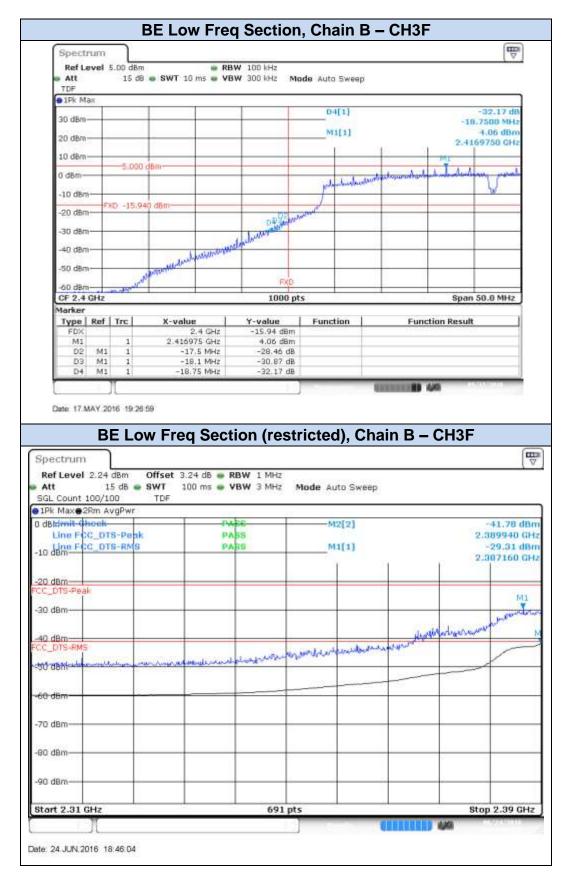


















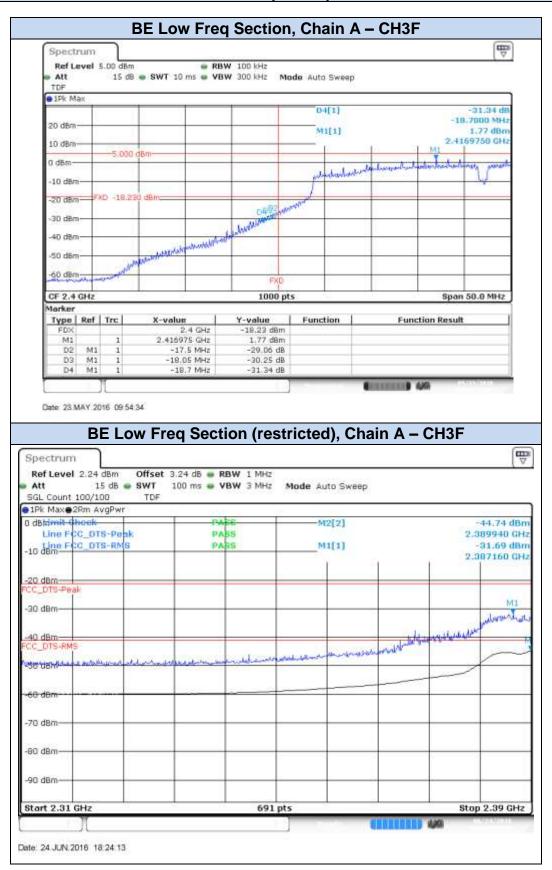








802.11n40 (MIMO), HT8







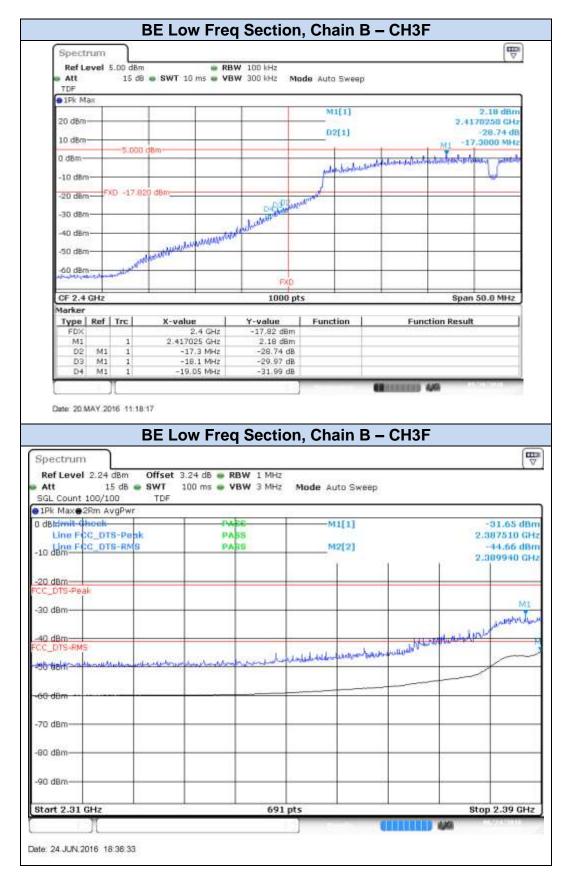
















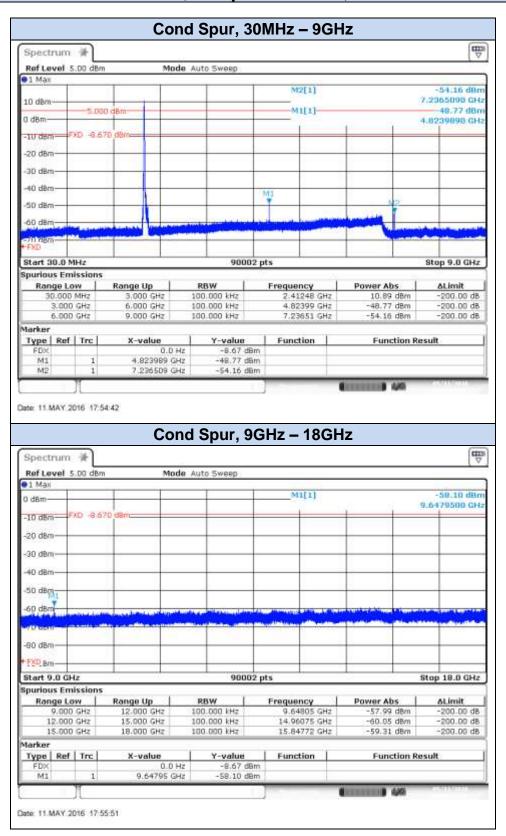




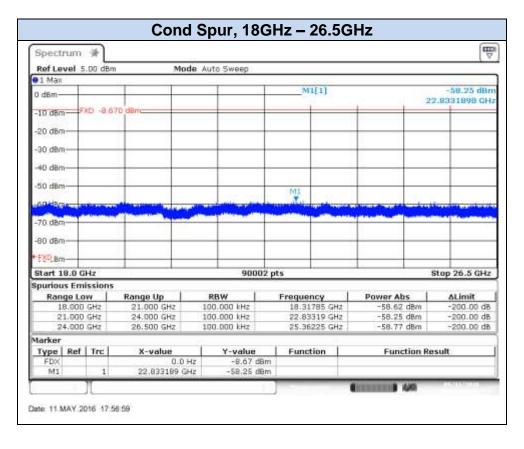


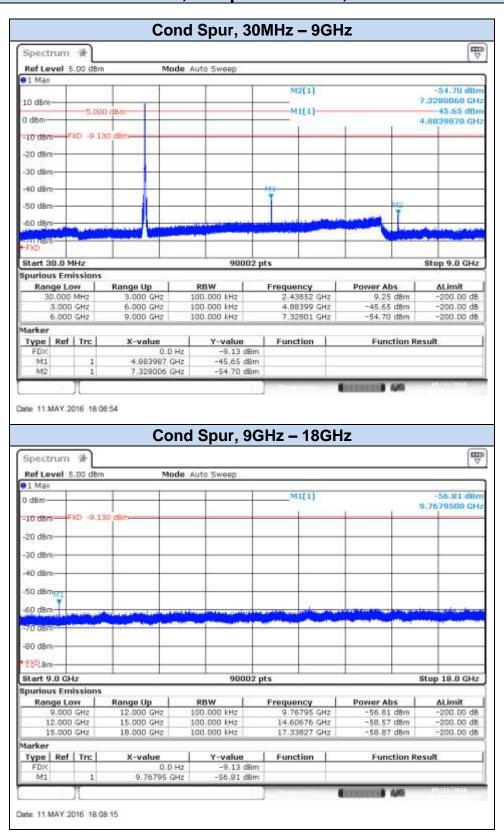


Conducted Spurious results Screenshot:

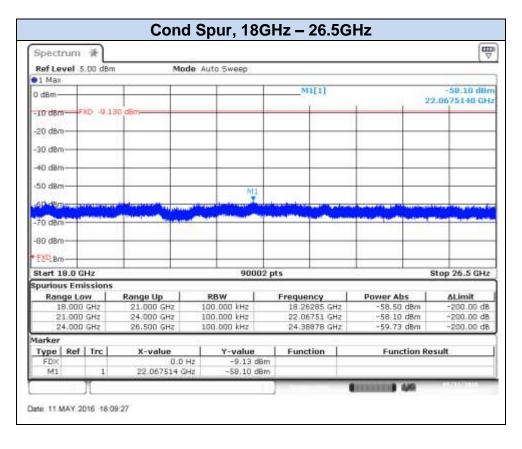


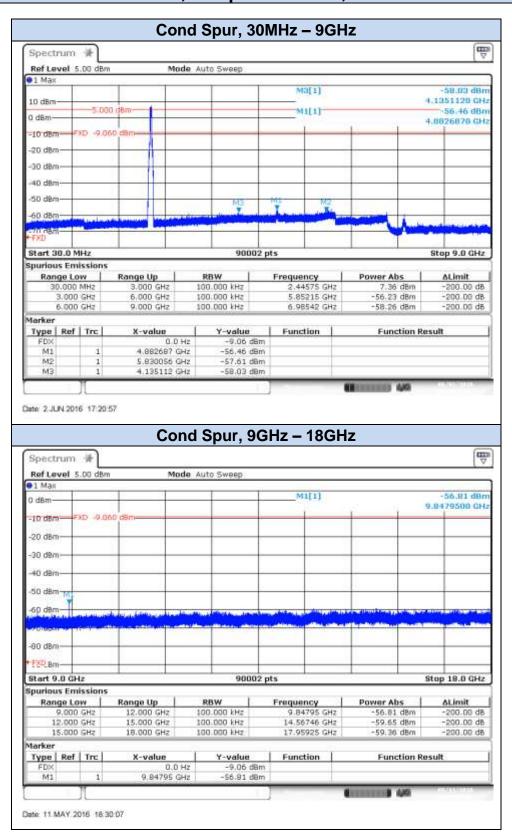
Rev 01



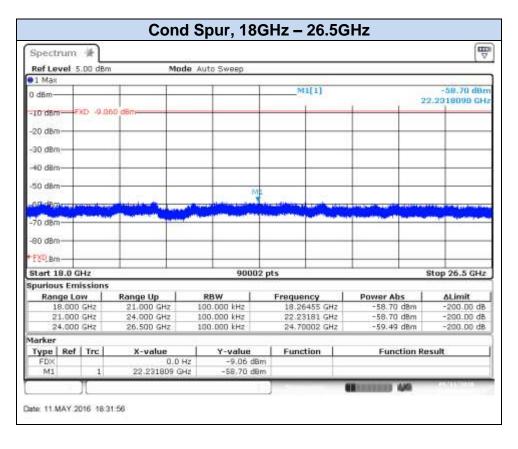


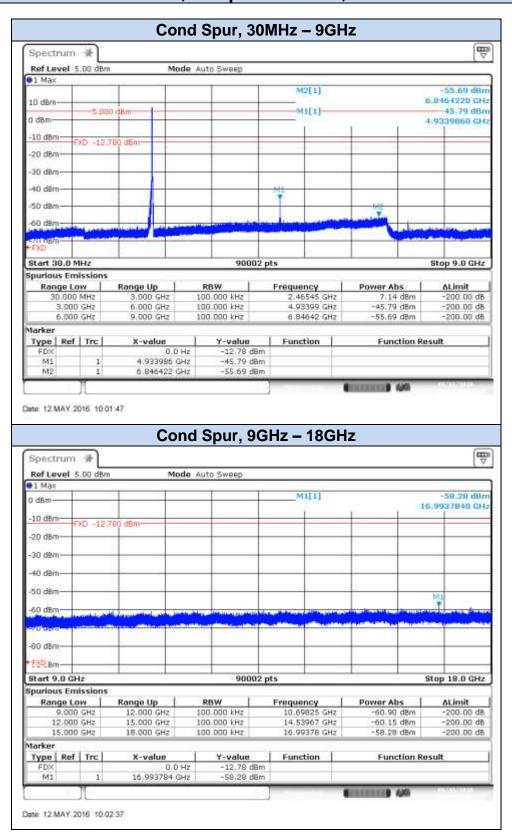
Rev. 01



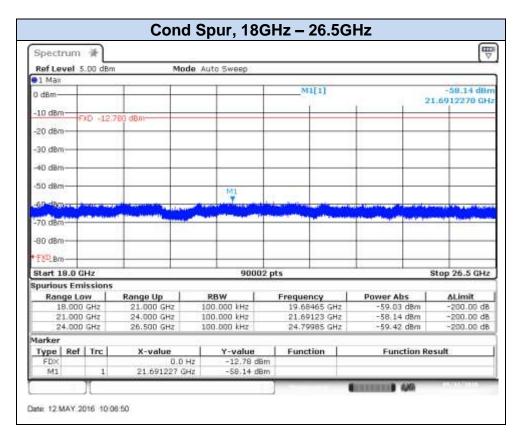


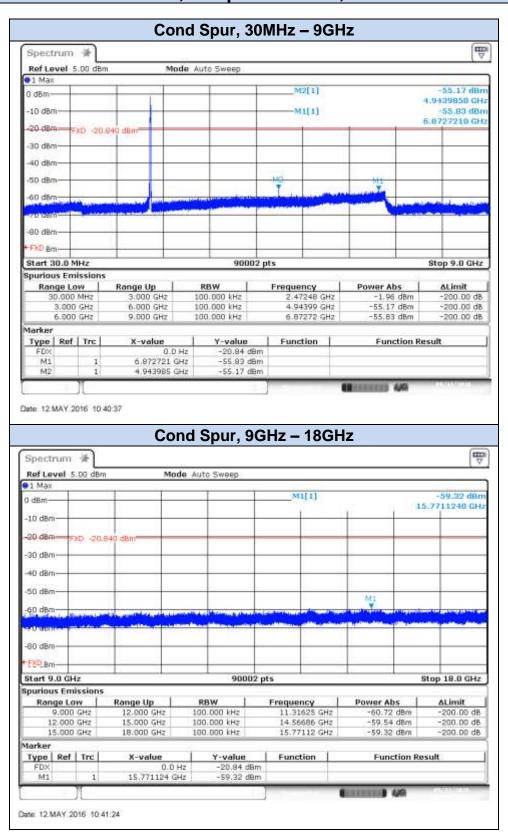
Pov. 01



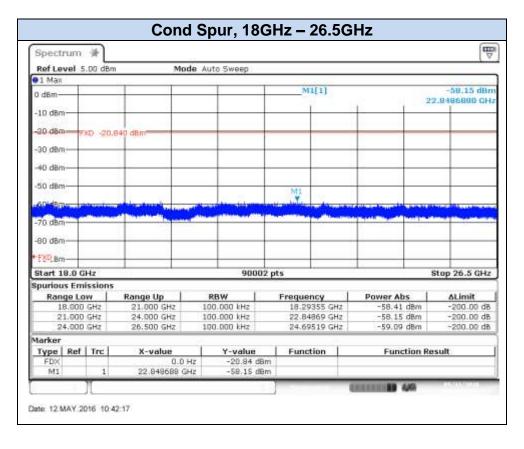


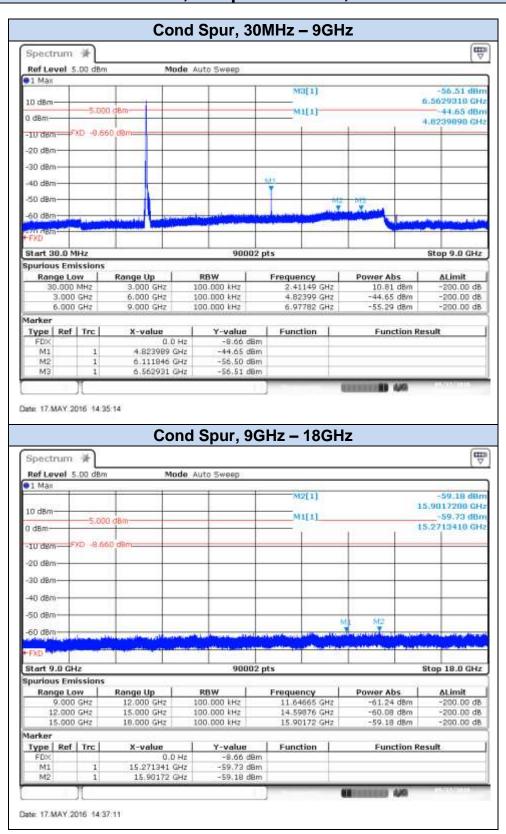


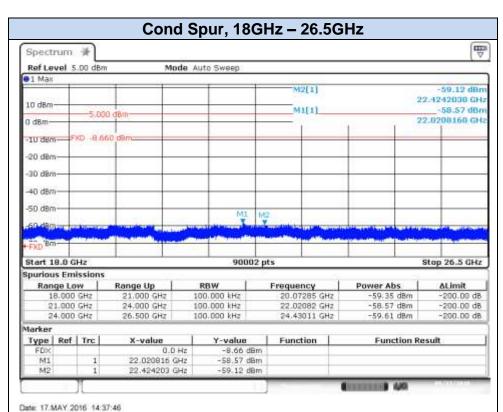


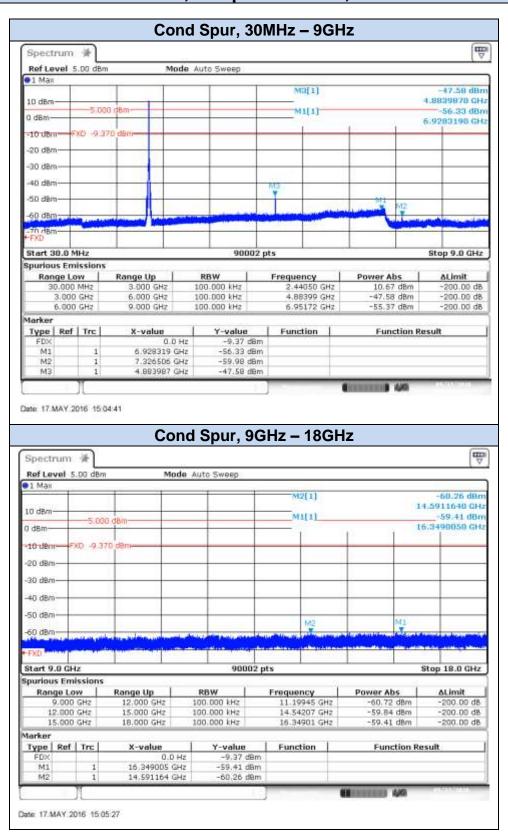


Rev 01

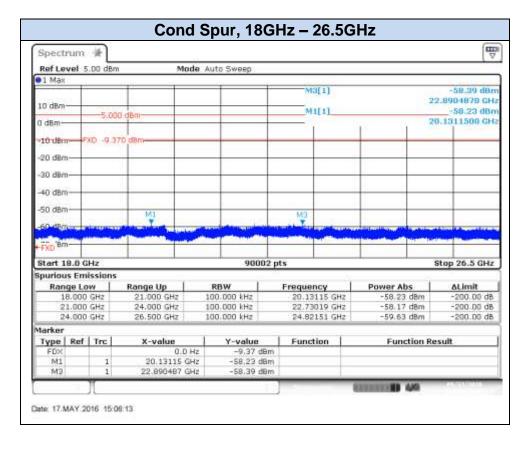


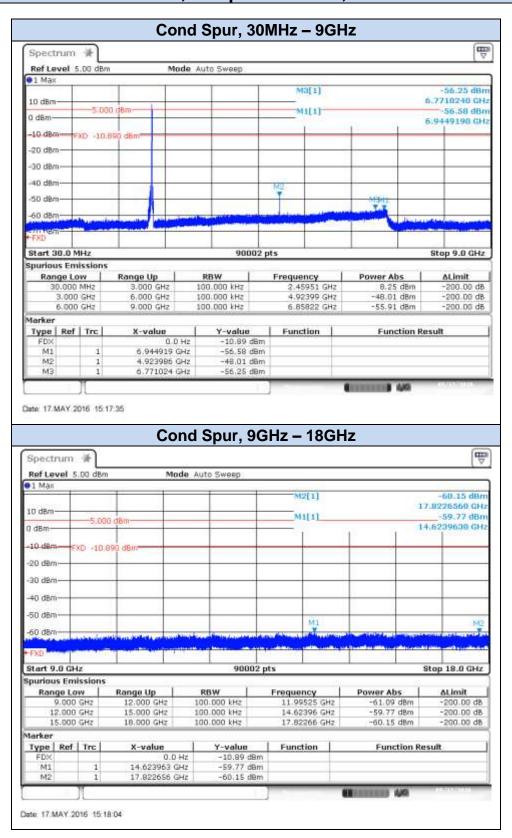




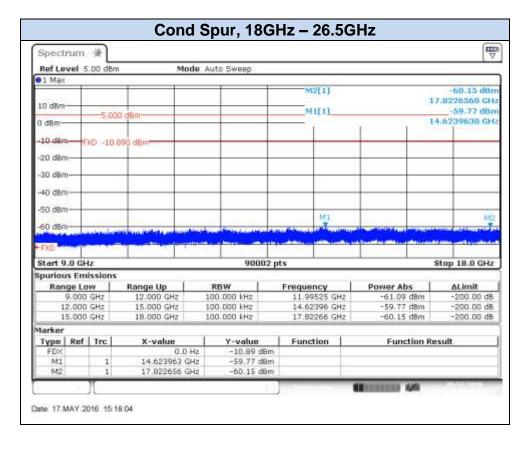


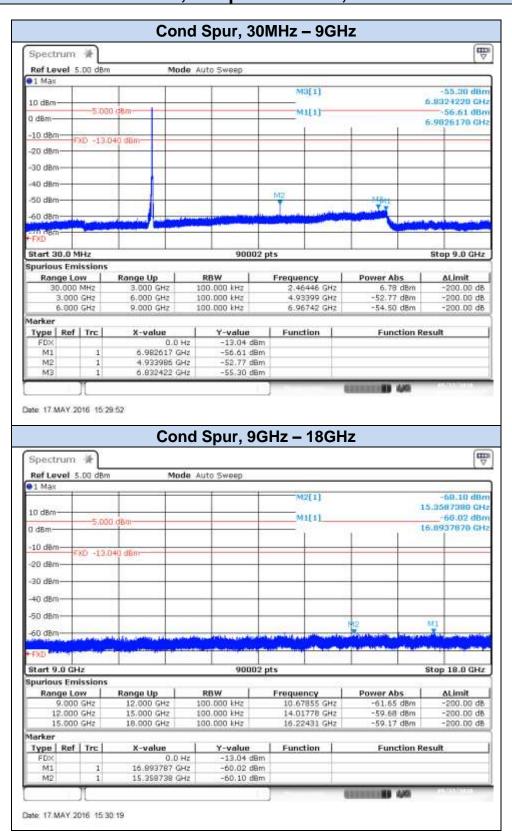




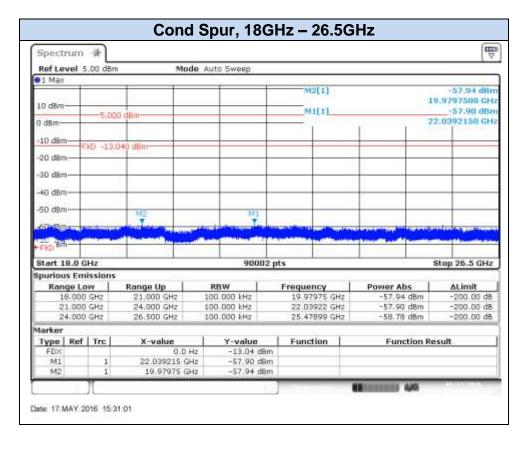




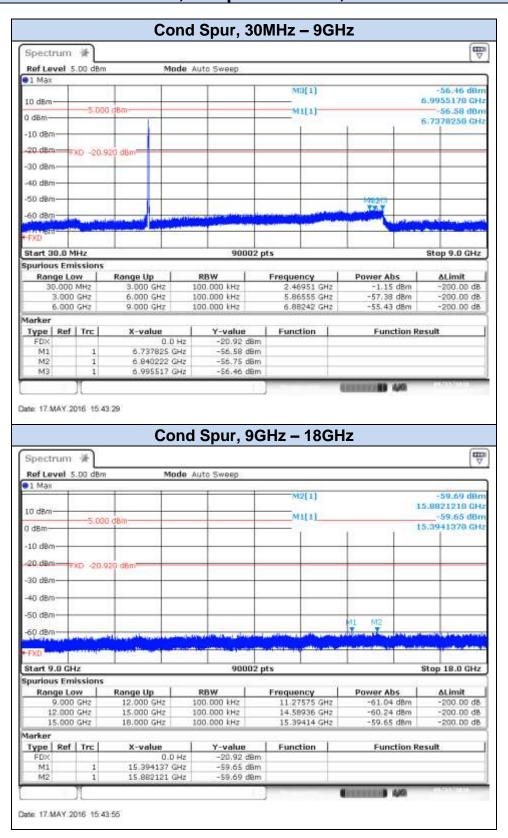




Rev. 01







Rev. 01

