



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)	· · · · · · · · · · · · · · · · · · ·				

Test procedure:

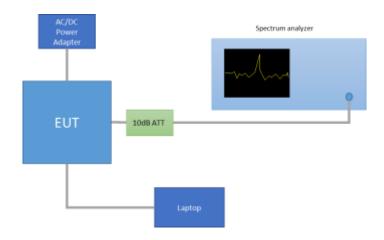
The PSD reference values to determine the -20dB compliance are taken from *B.4 Power Spectral Density*.

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)	
960-25000	3	100	40.00	-55.2	

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 3dBi.

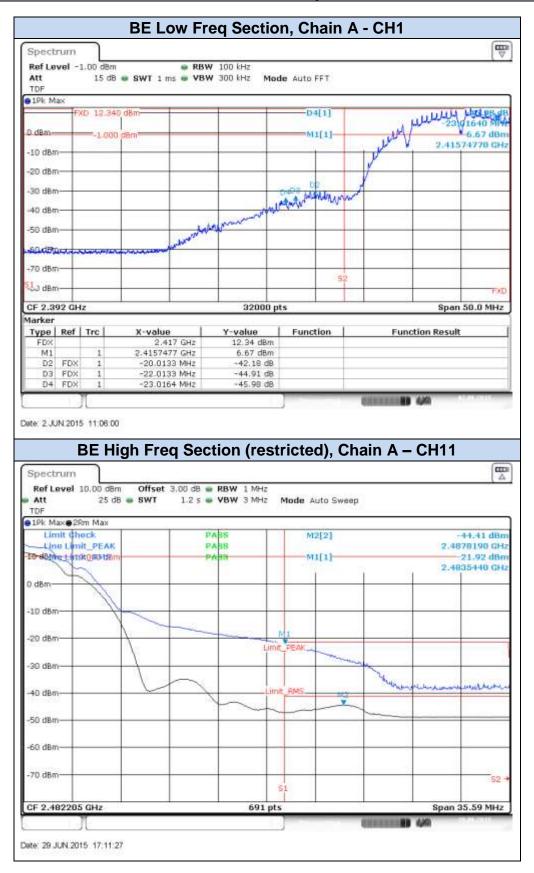
The setup below was used to measure the out-of-band emissions. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

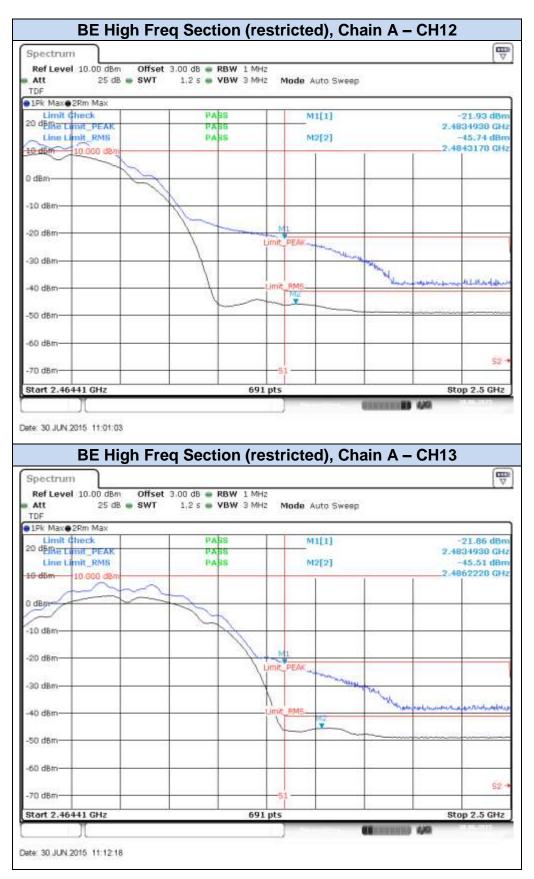


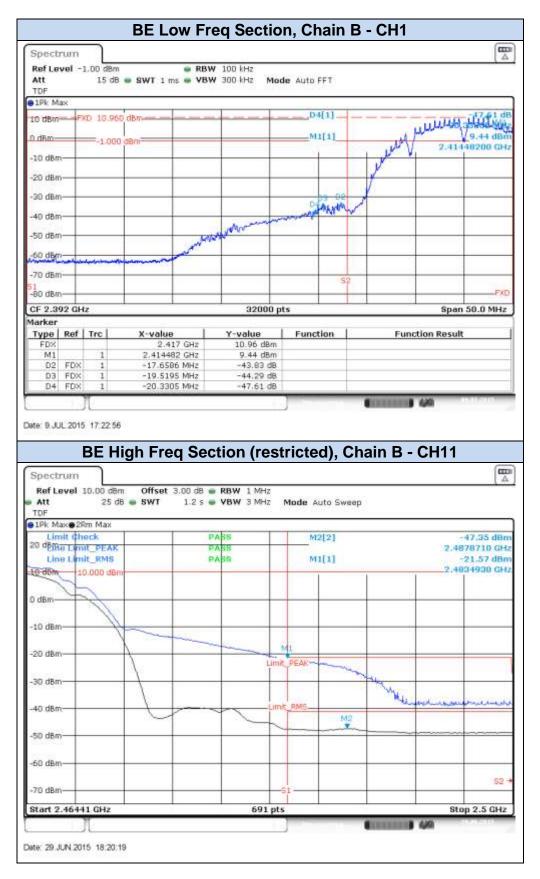


Band Edge results Screenshot:

802.11b, 1Mbps



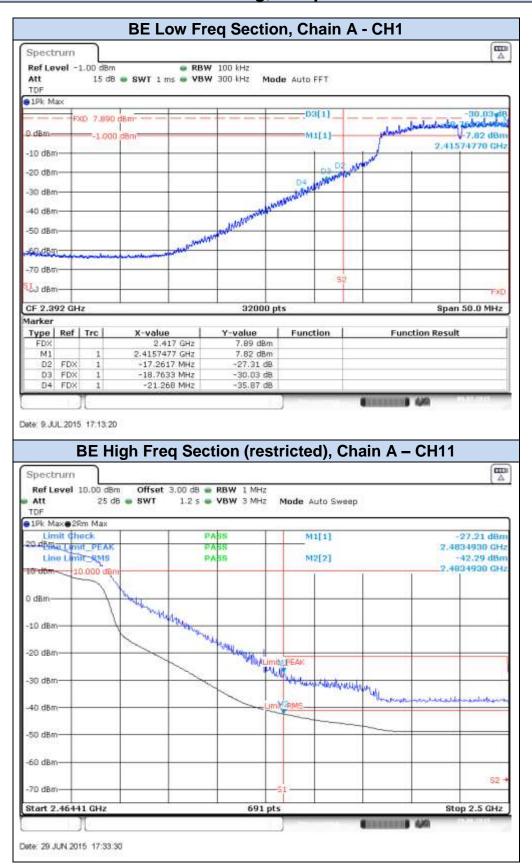


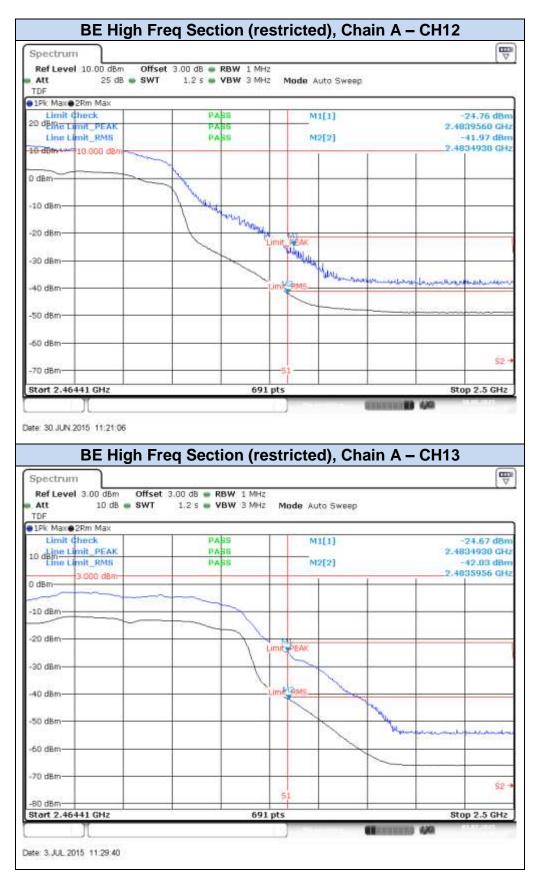




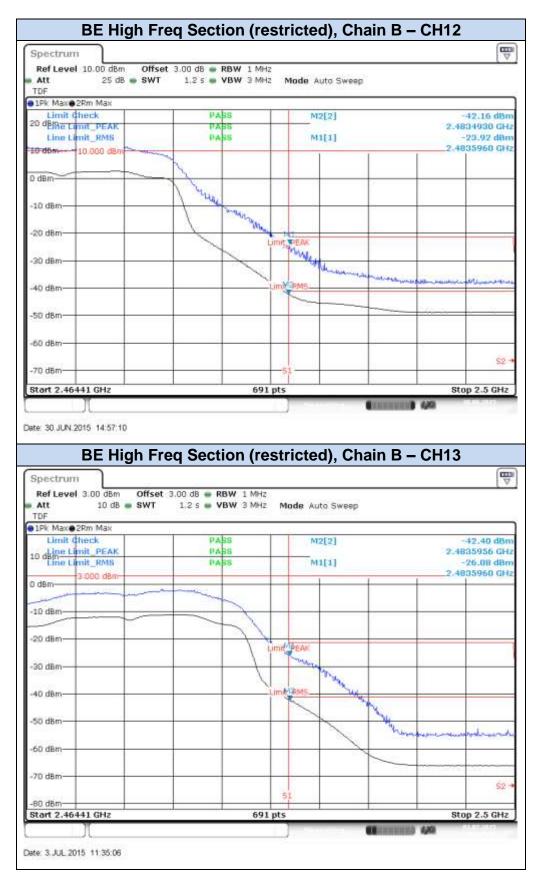


802.11g, 6Mbps



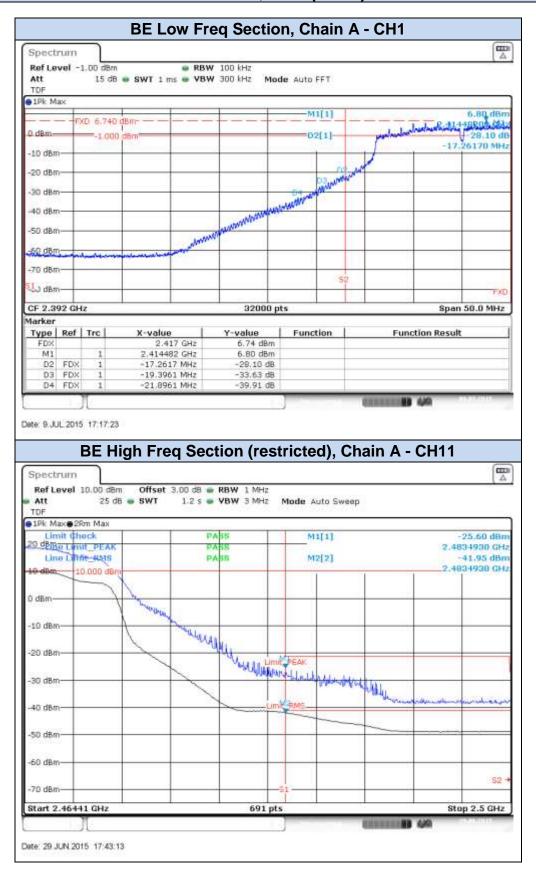


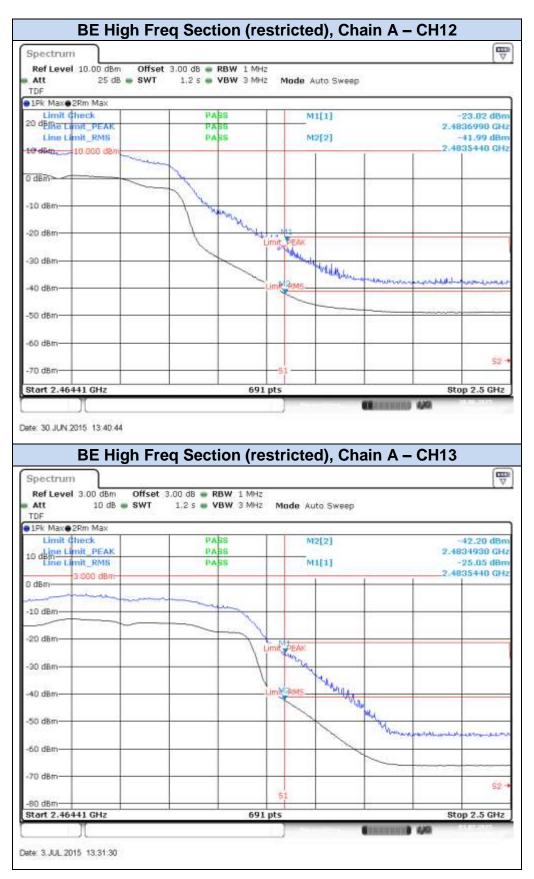






802.11n20, HT0 (SISO)



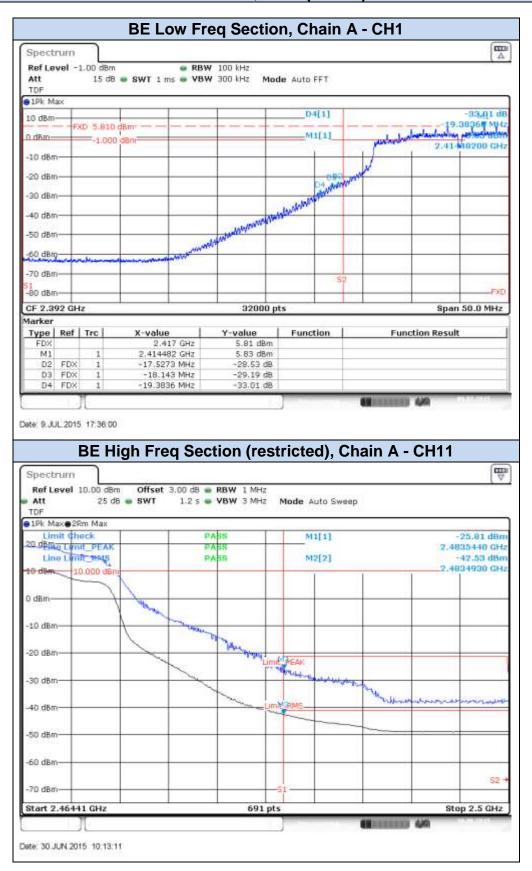


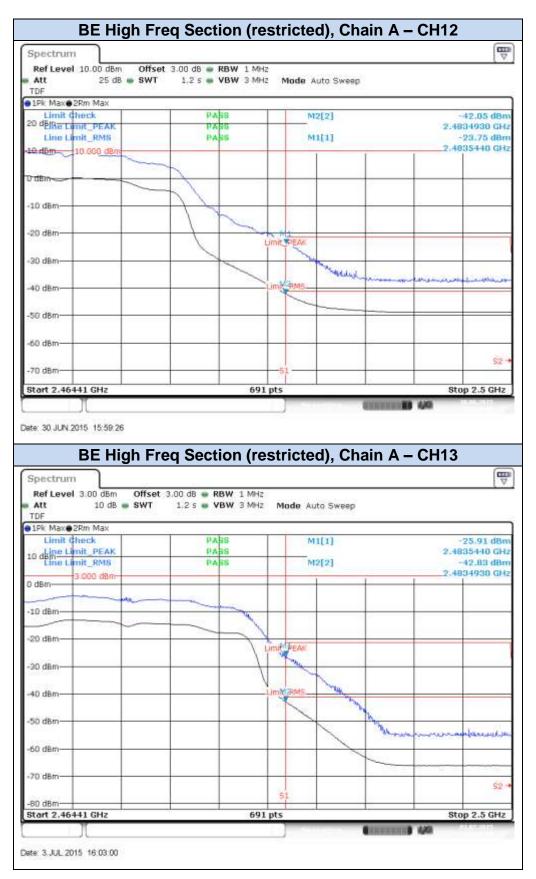


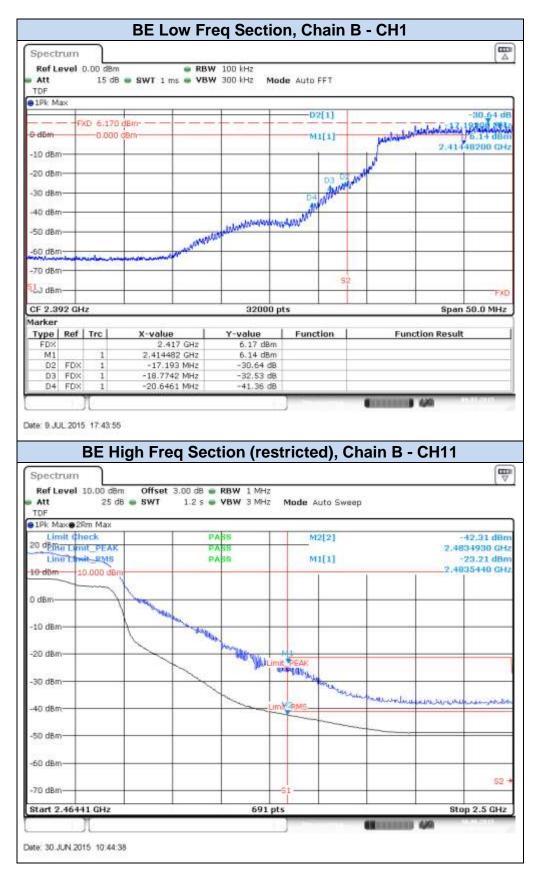


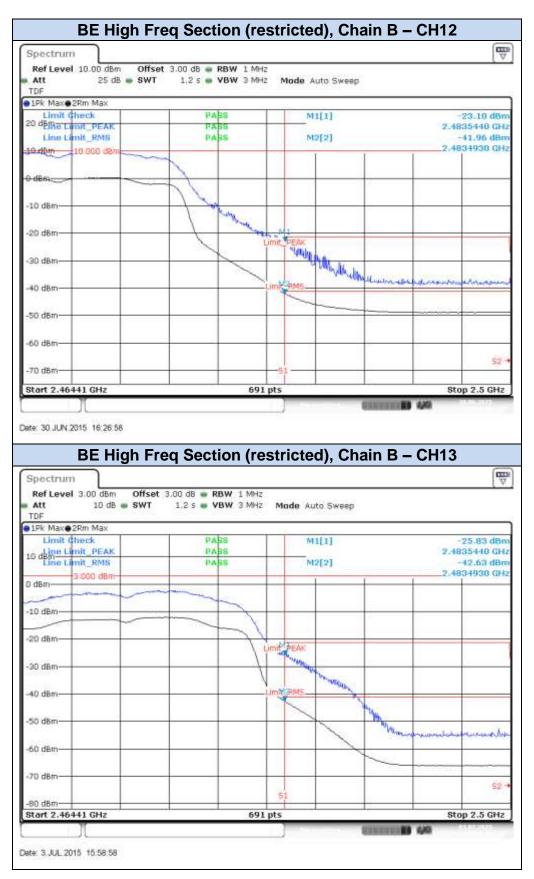


802.11n20, HT8 (MIMO)



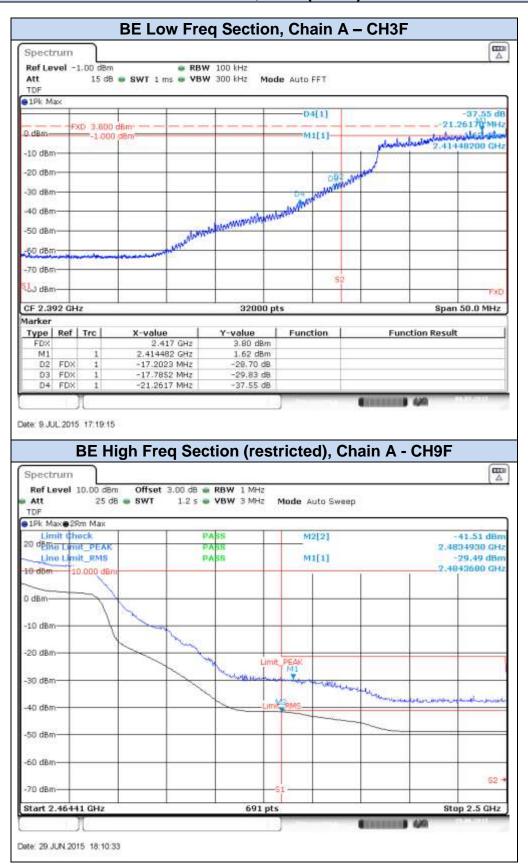


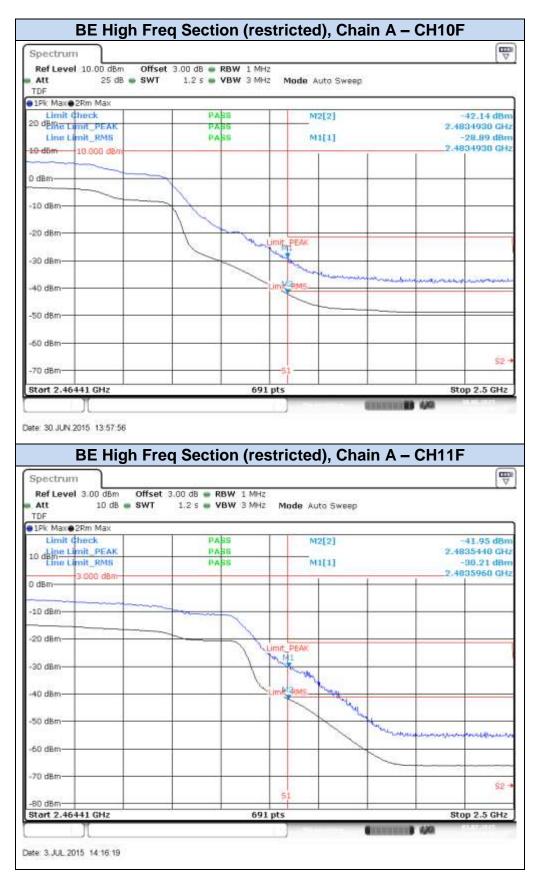


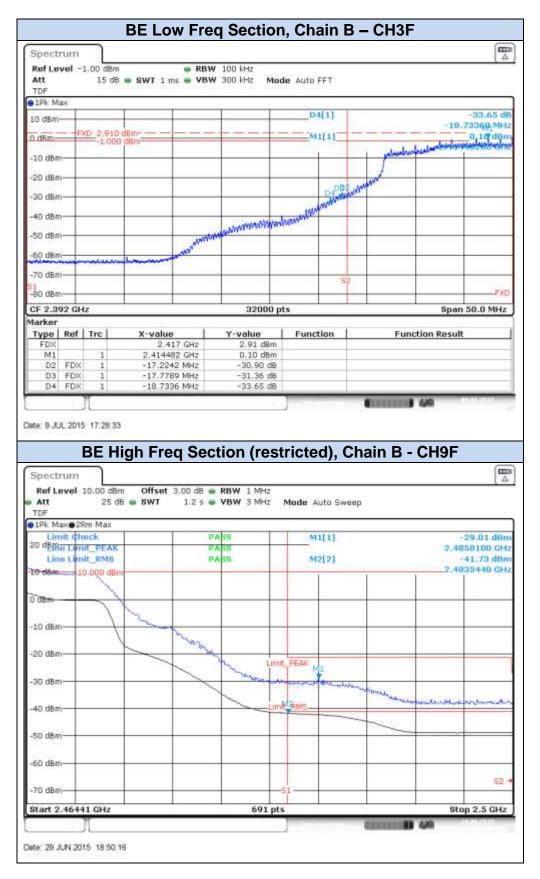


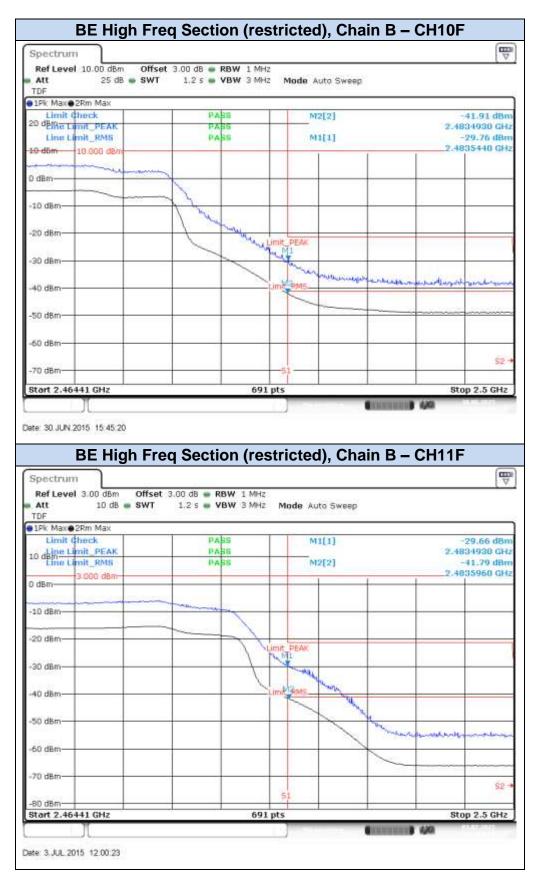


802.11n40, HT0 (SISO)



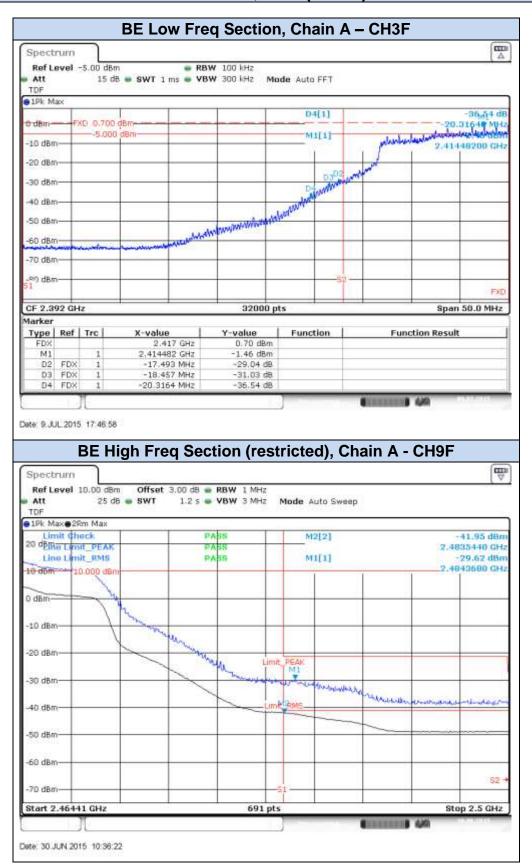


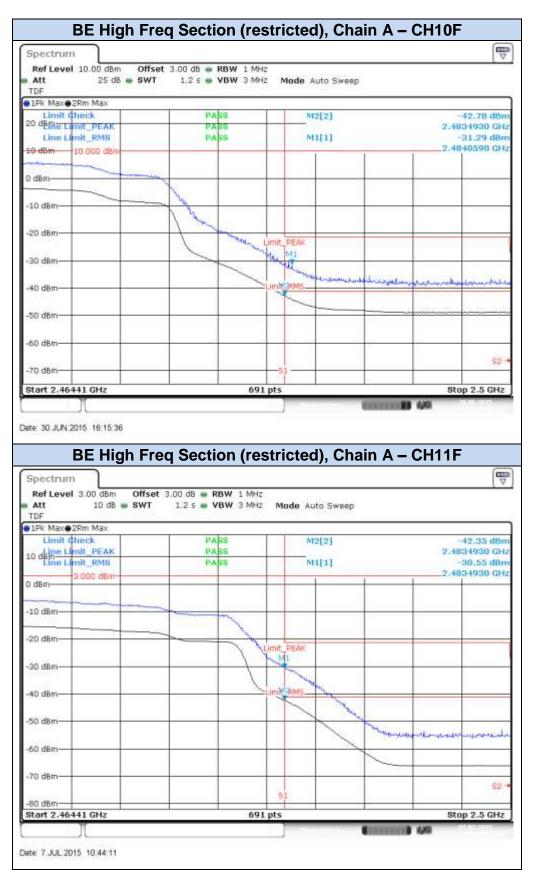




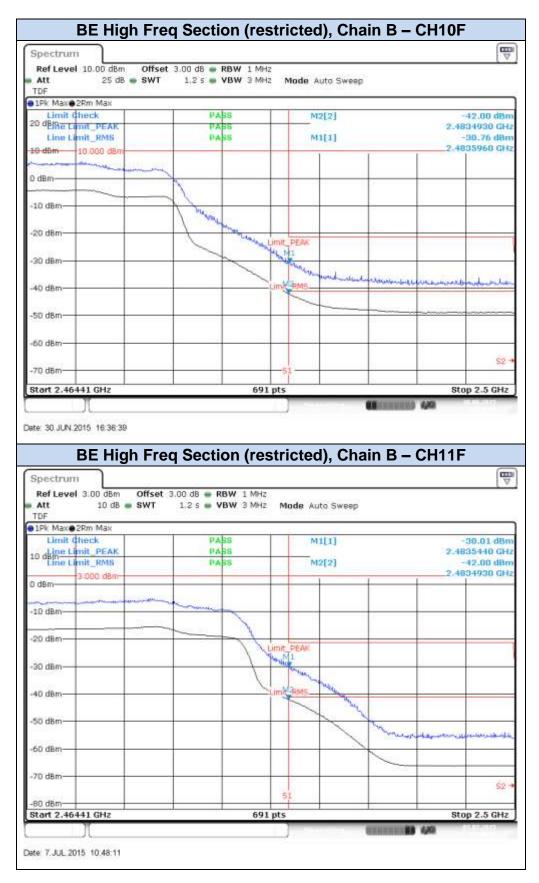


802.11n40, HT8 (MIMO)





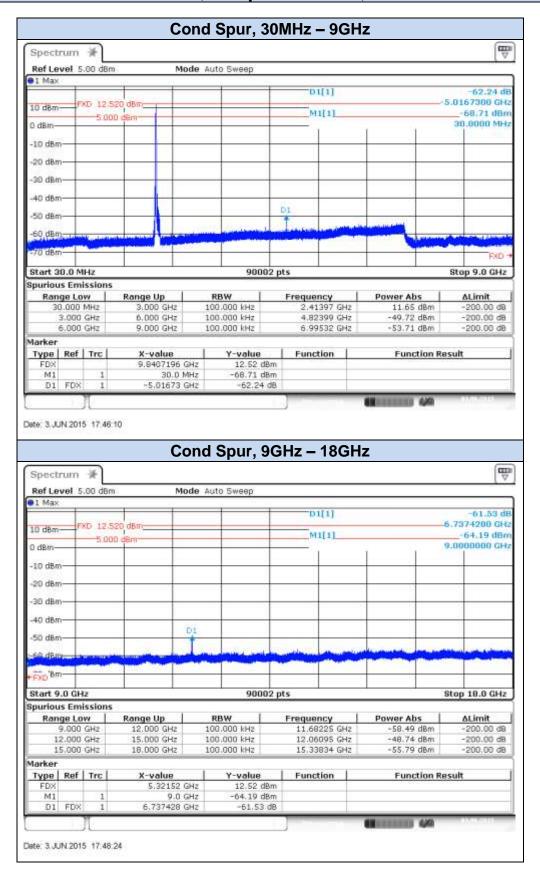




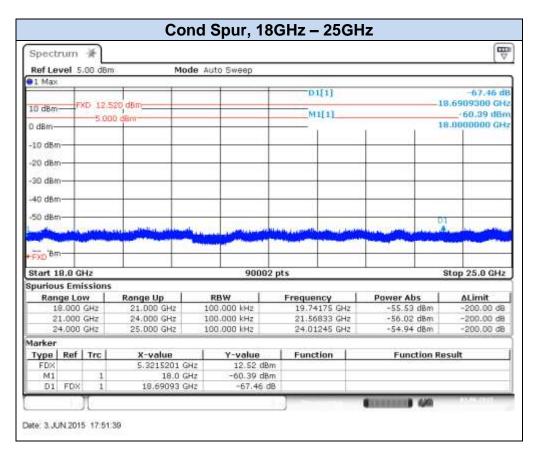


Conducted Spurious results Screenshot:

802.11b, 1Mbps - Chain A, CH1

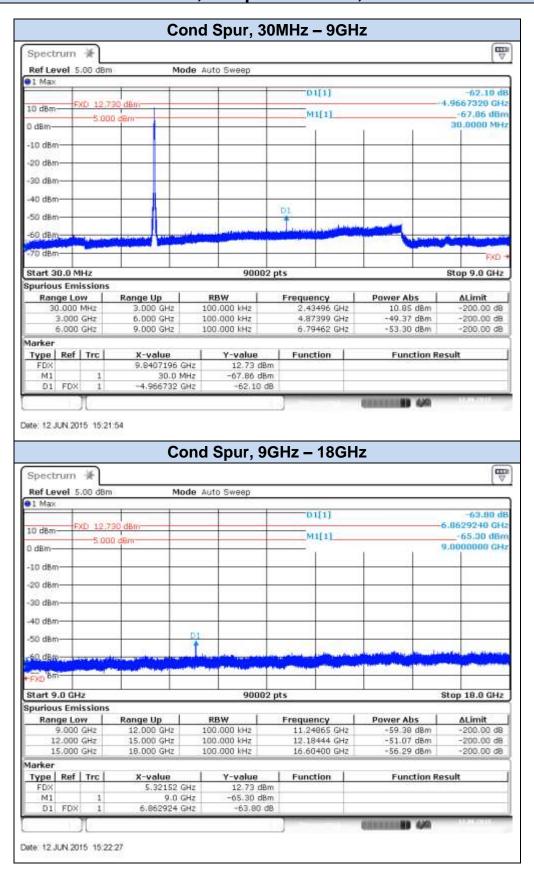


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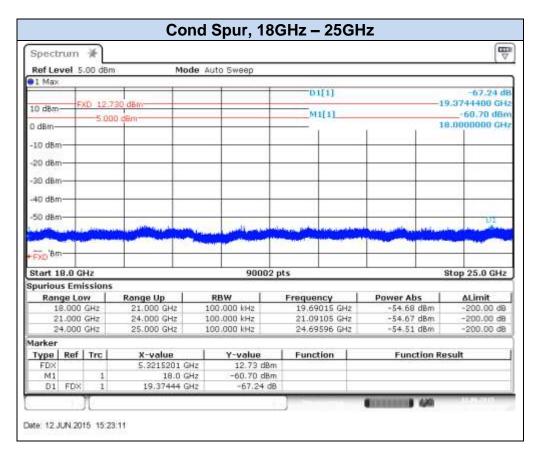


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802.11b, 1Mbps - Chain A, CH6

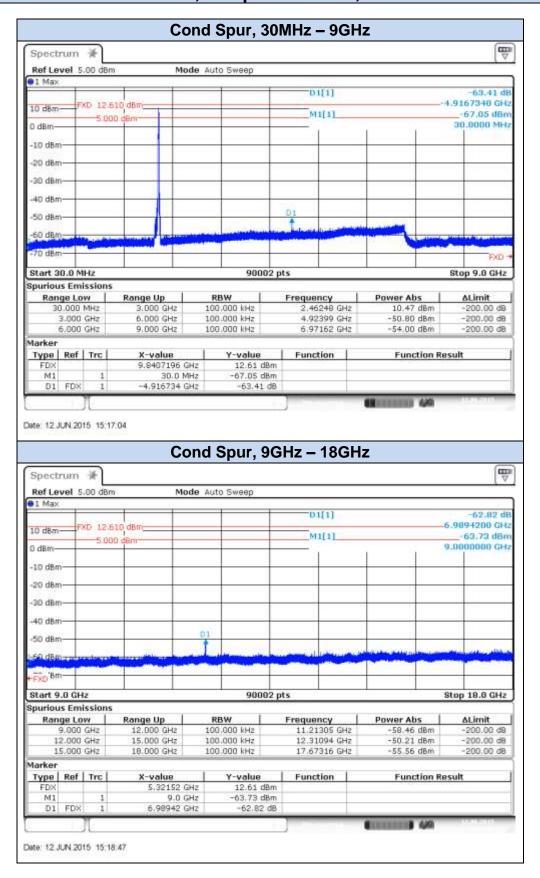


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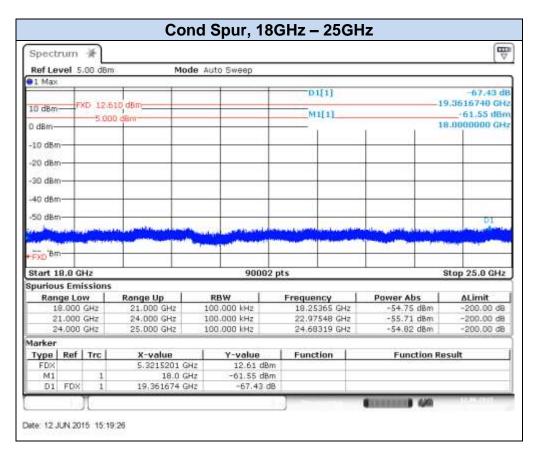


intel

802.11b, 1Mbps - Chain A, CH11

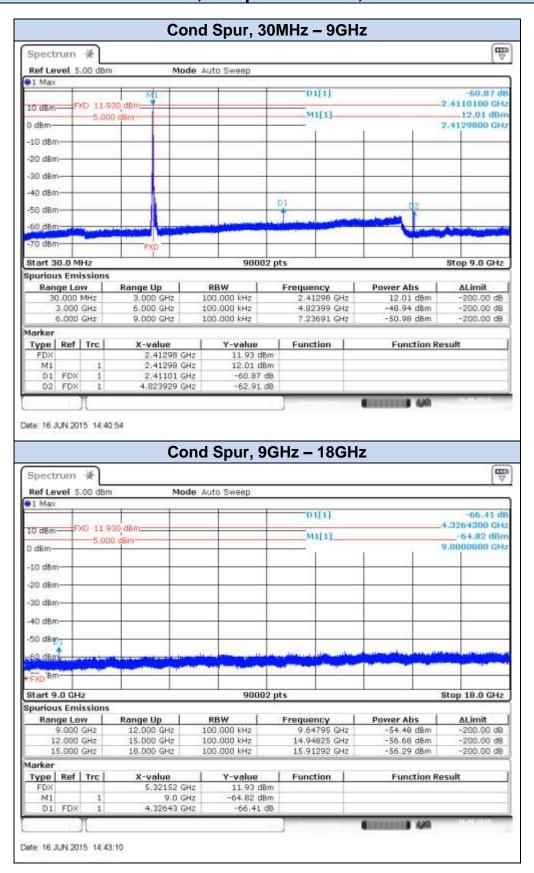


Rev 00

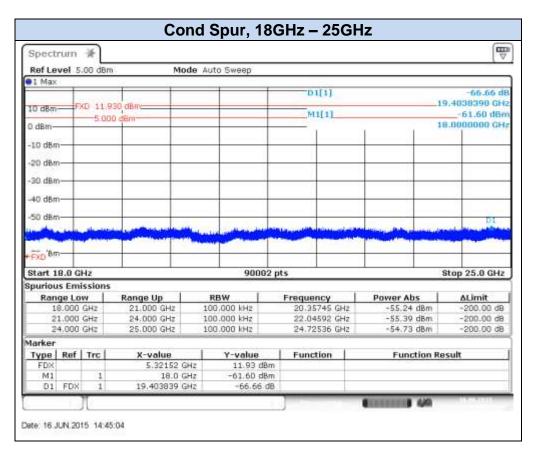


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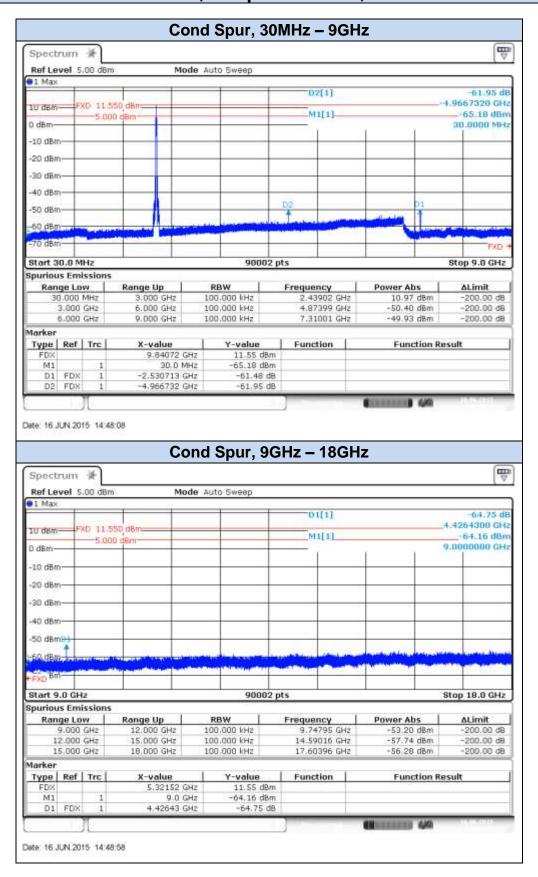
802.11b, 1Mbps - Chain B, CH1



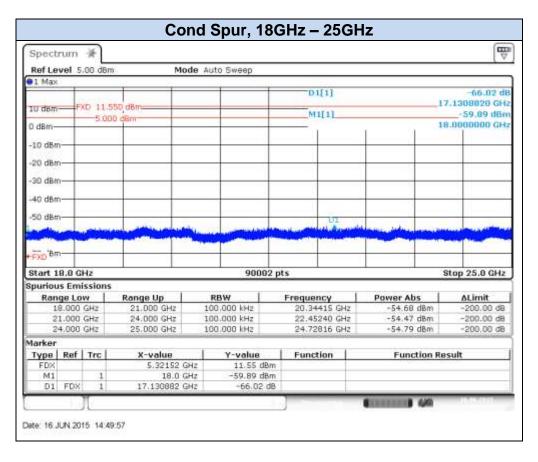
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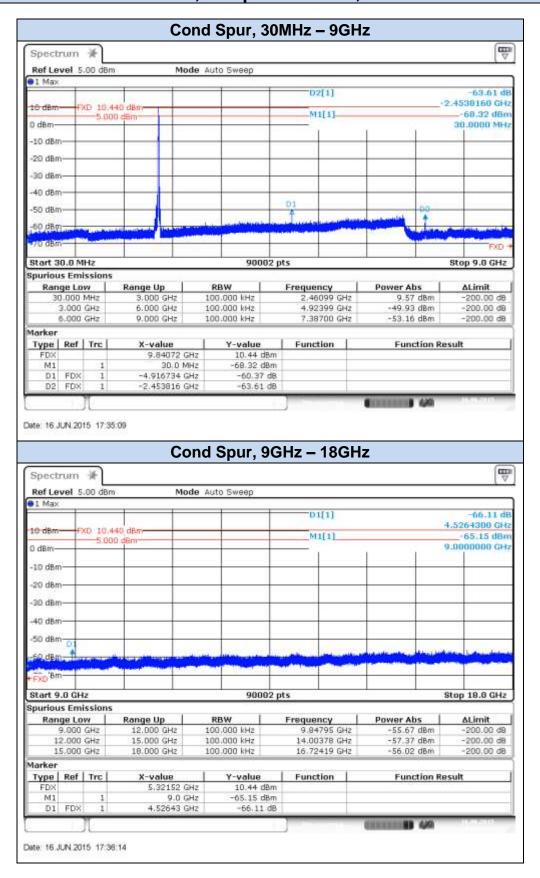
802.11b, 1Mbps - Chain B, CH6



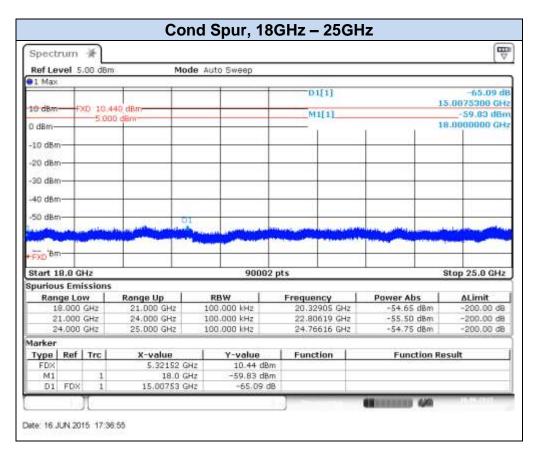
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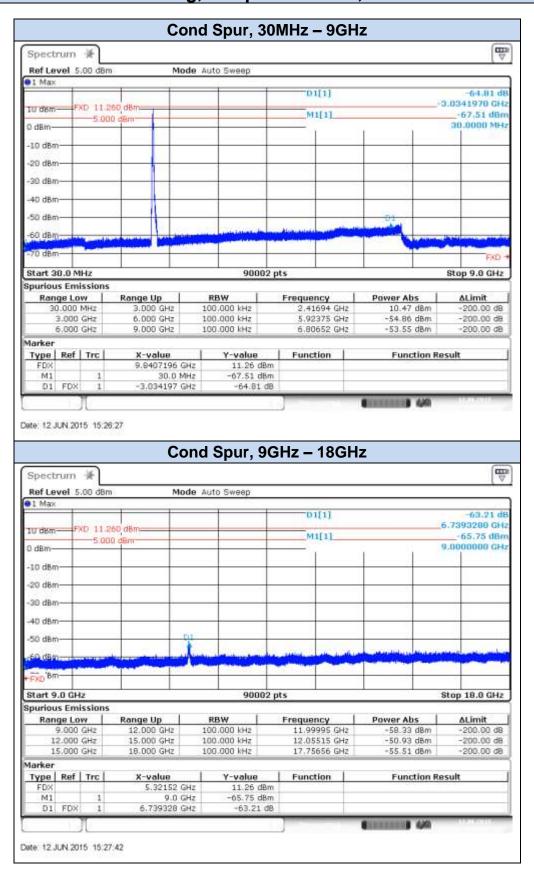
802.11b, 1Mbps - Chain B, CH11



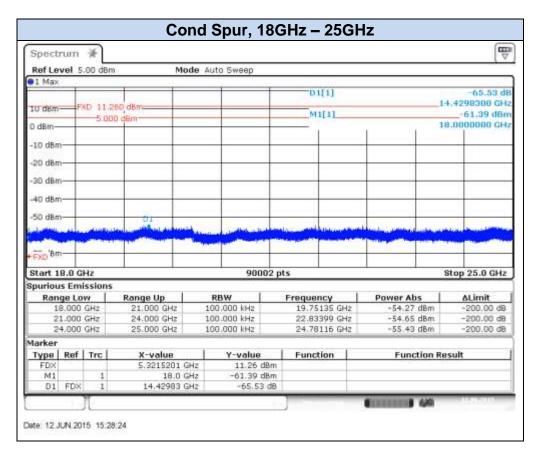
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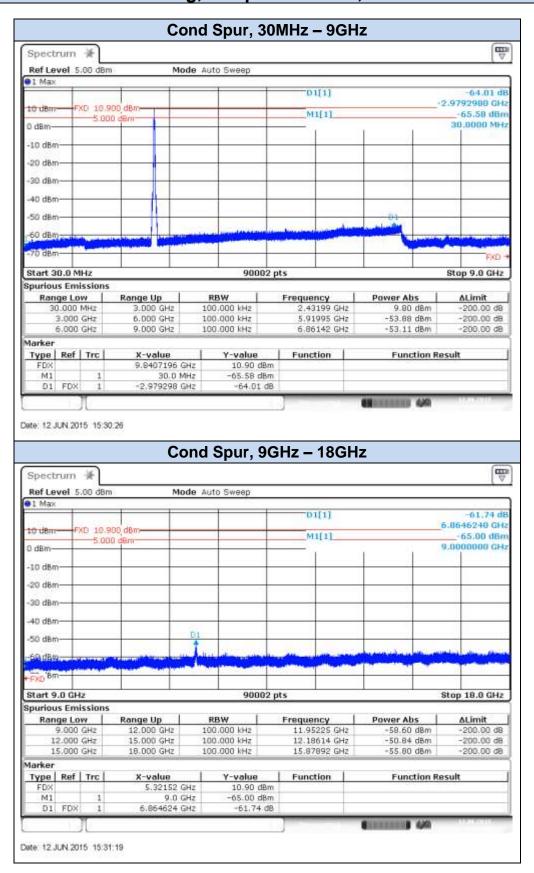
802.11g, 6Mbps - Chain A, CH1

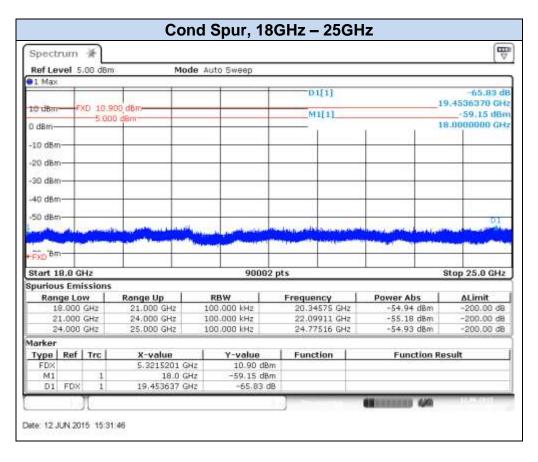


Rev 00

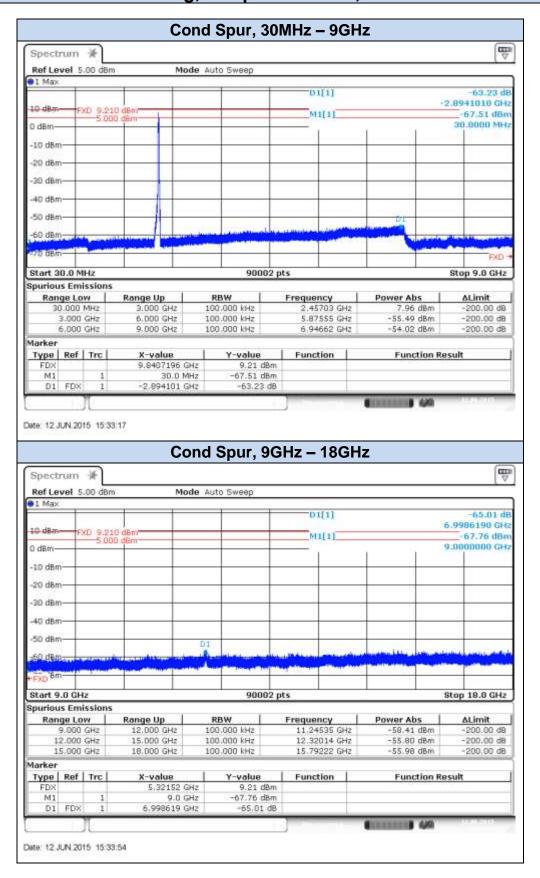


802.11g, 6Mbps - Chain A, CH6

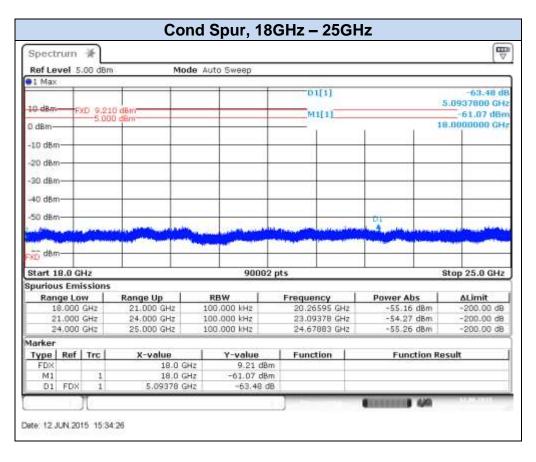




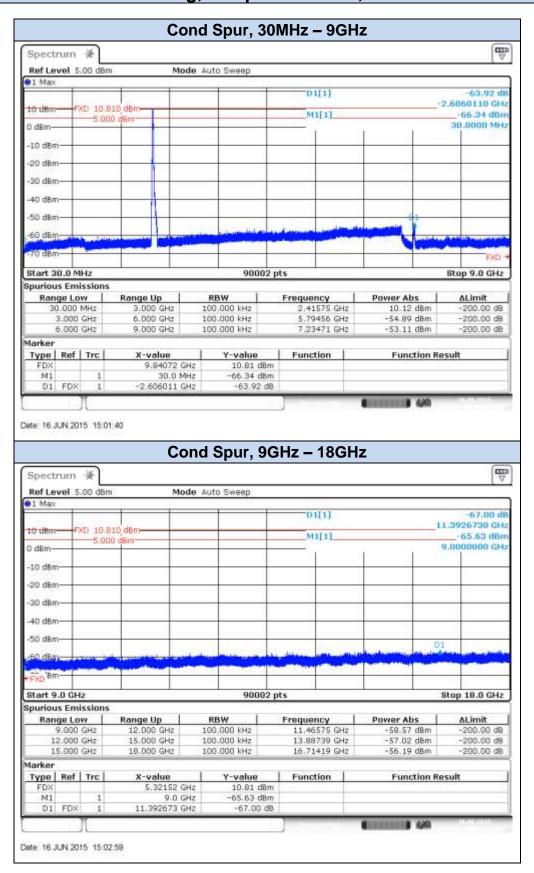
802.11g, 6Mbps - Chain A, CH11



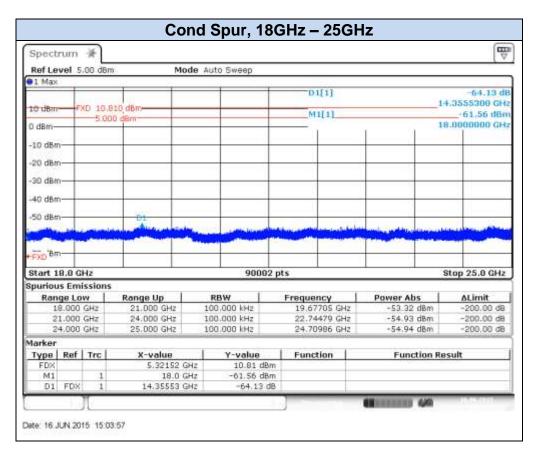
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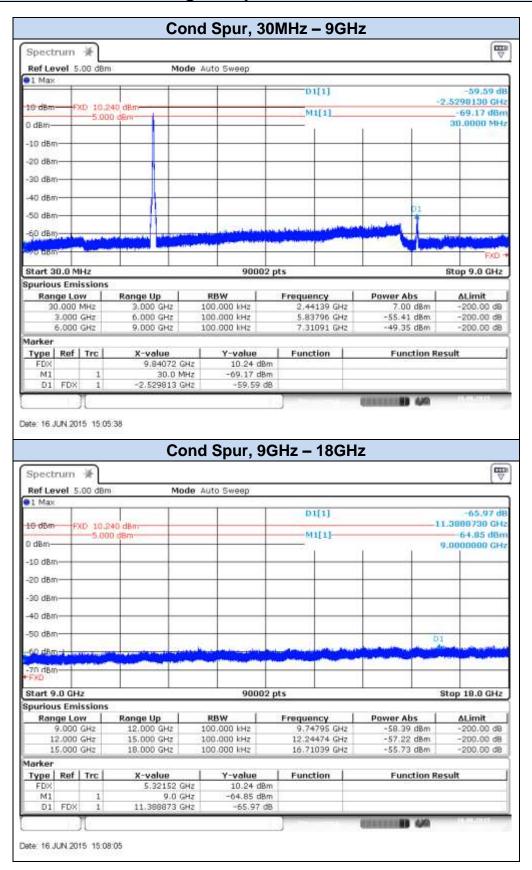
802.11g, 6Mbps - Chain B, CH1



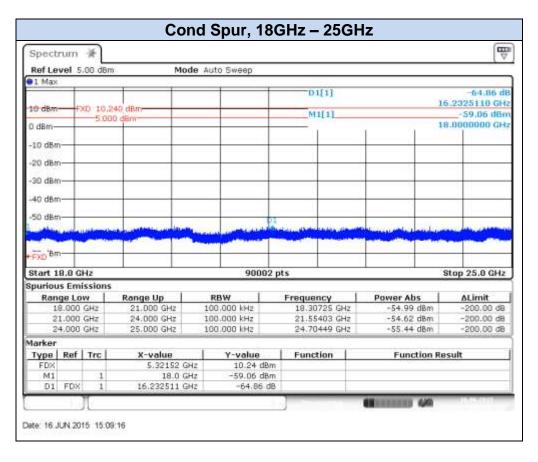
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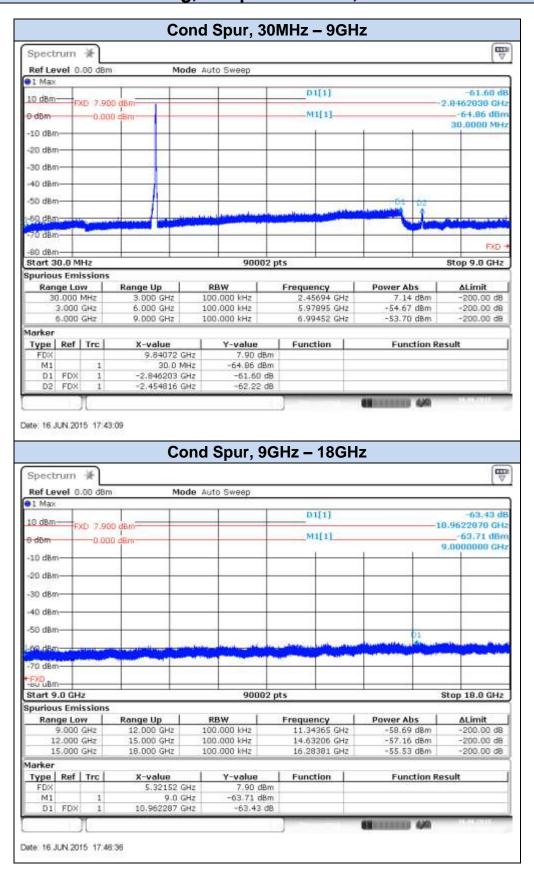
802.11g, 6Mbps - Chain B, CH6



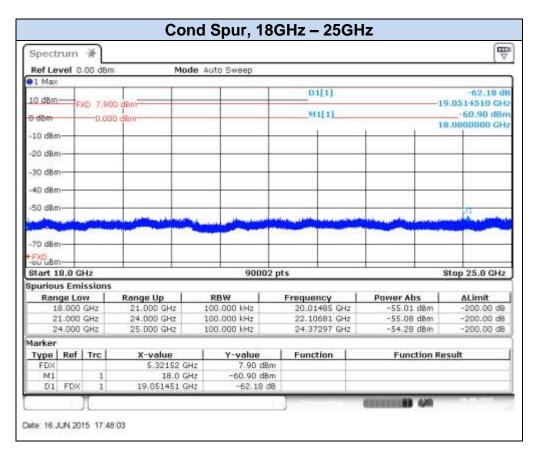
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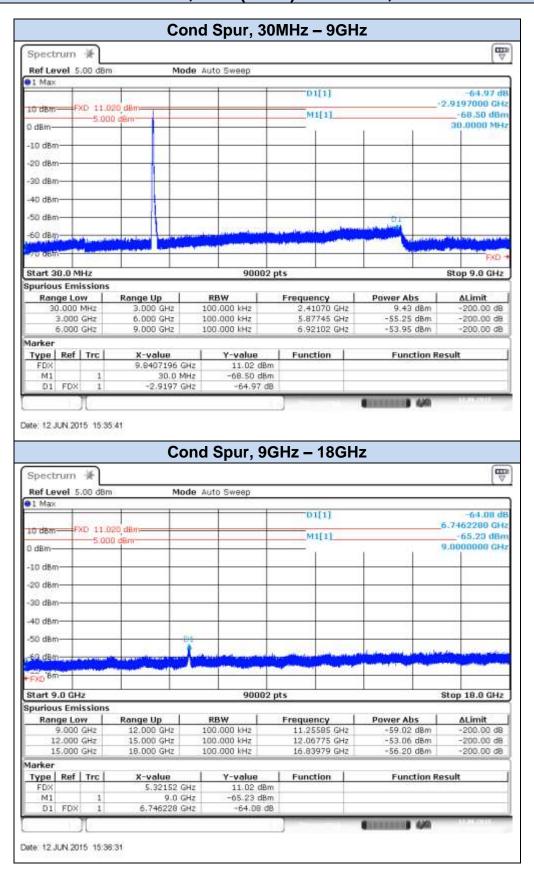
802.11g, 6Mbps - Chain B, CH11



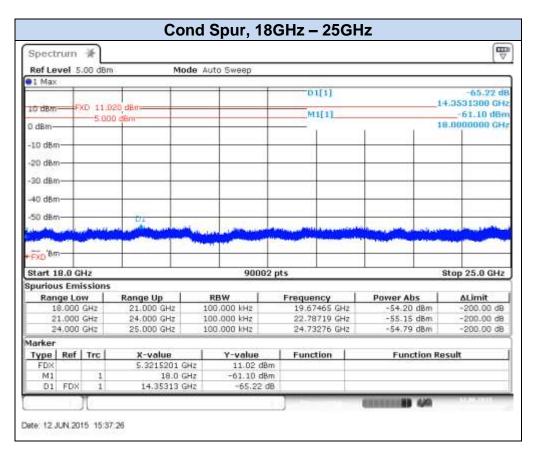
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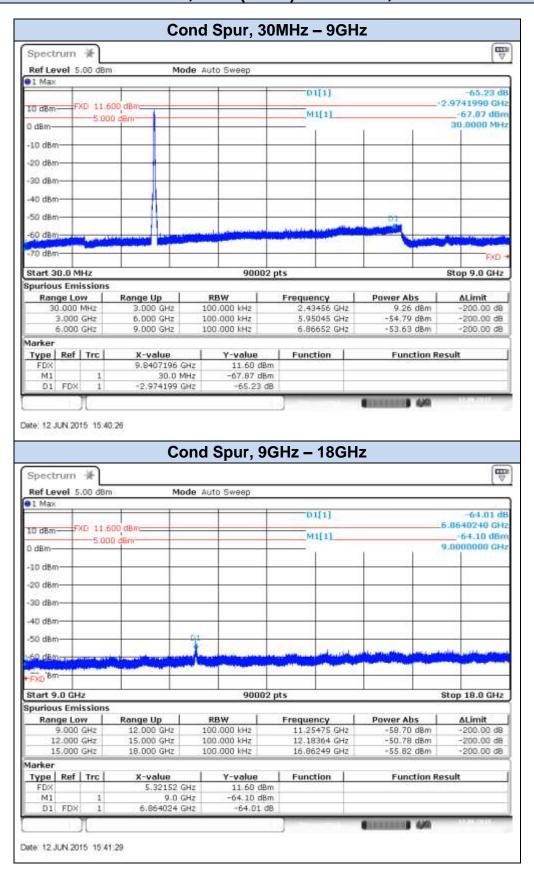
802.11n20, HT0 (SISO) - Chain A, CH1



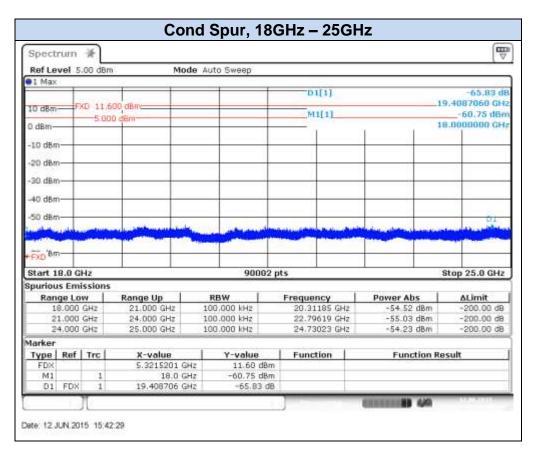
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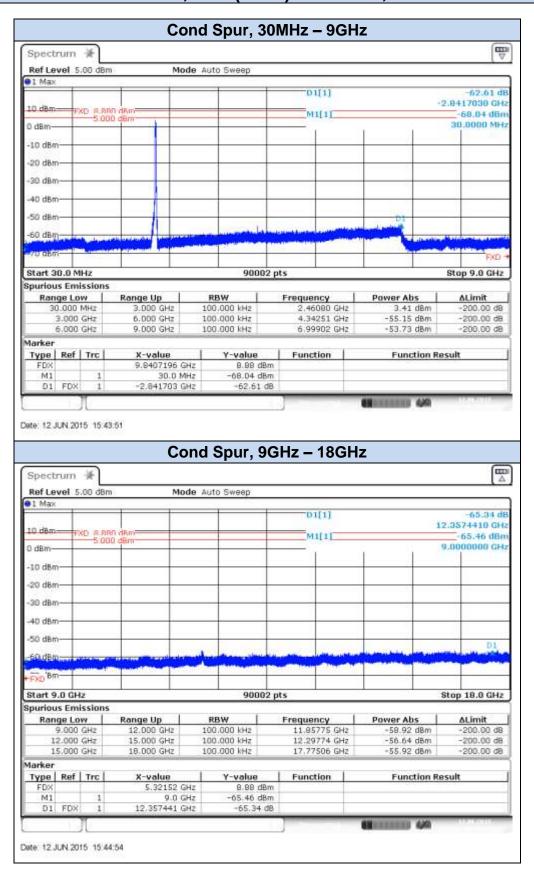
802.11n20, HT0 (SISO) - Chain A, CH6



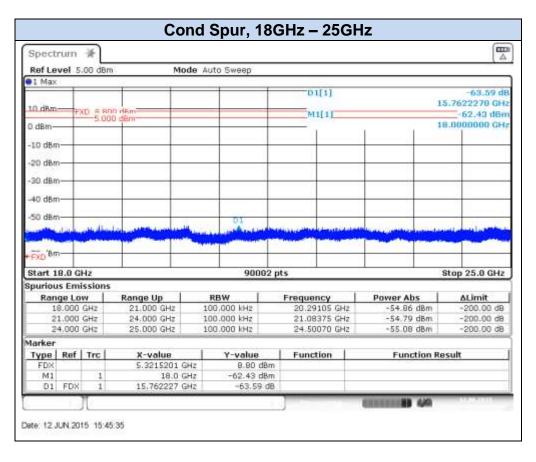
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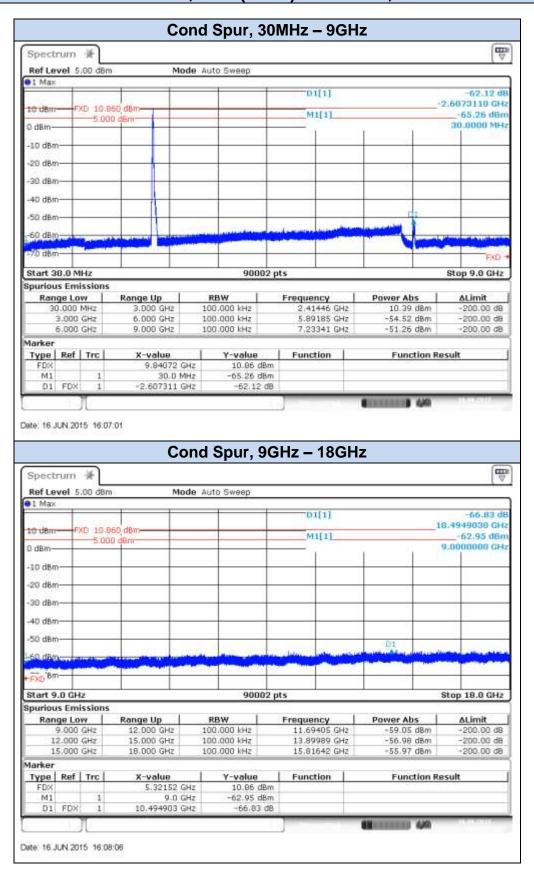
802.11n20, HT0 (SISO) - Chain A, CH11



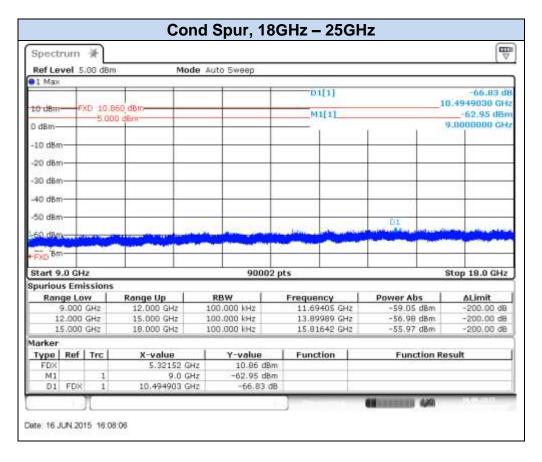
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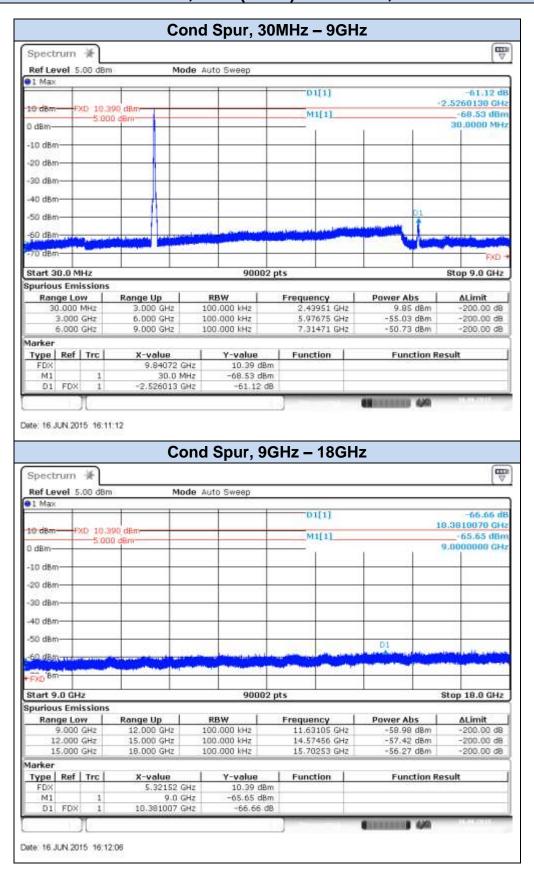
802.11n20, HT0 (SISO) - Chain B, CH1



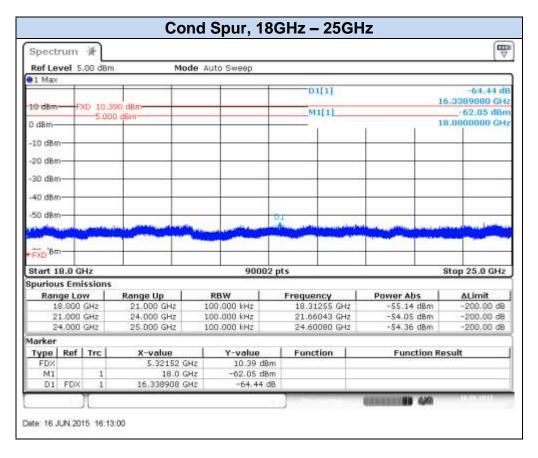
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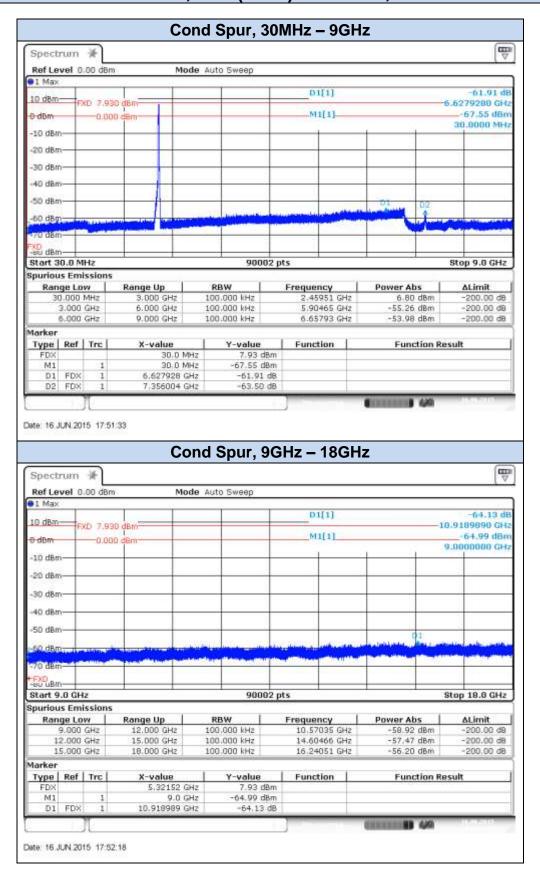
802.11n20, HT0 (SISO) - Chain B, CH6



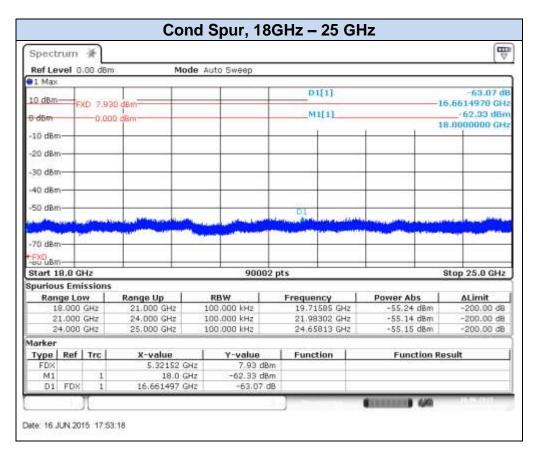
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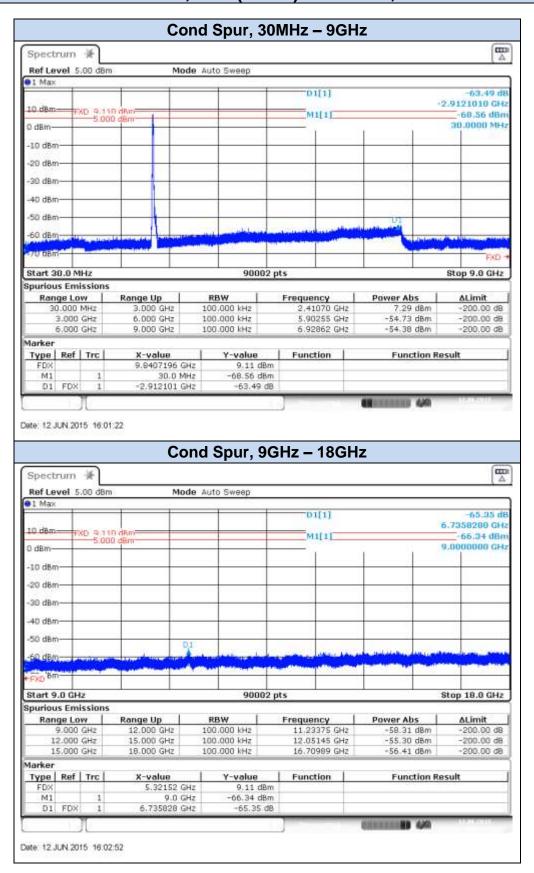
802.11n20, HT0 (SISO) - Chain B, CH11



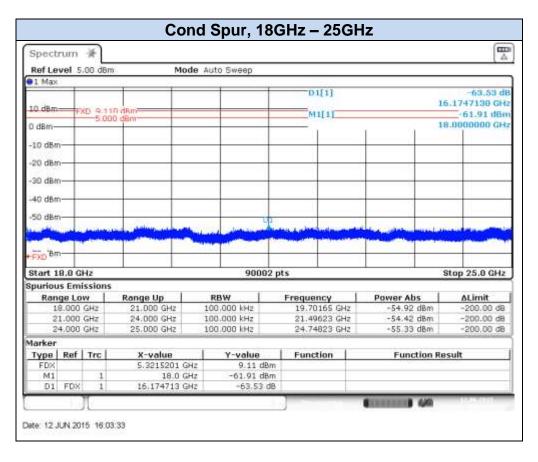
Rev 00



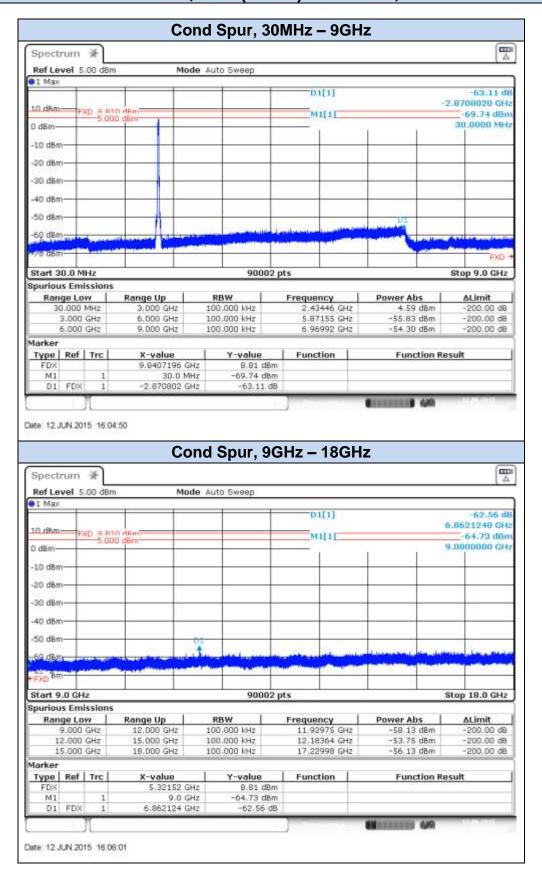
802.11n20, HT8 (MIMO) - Chain A, CH1



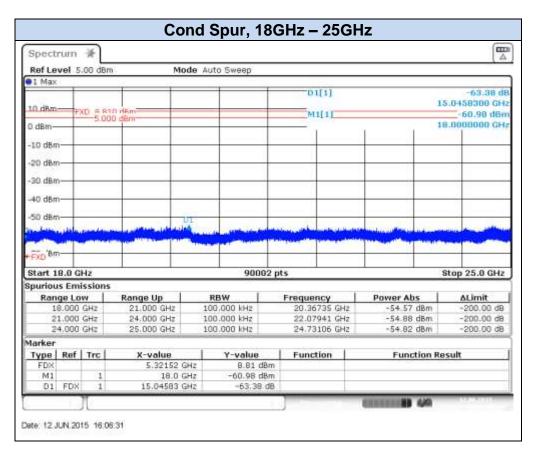
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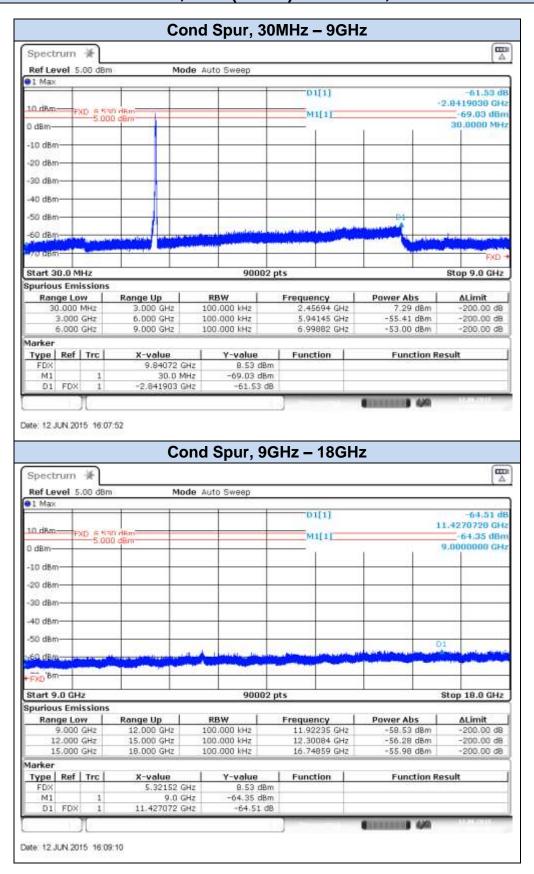
802.11n20, HT8 (MIMO) - Chain A, CH6



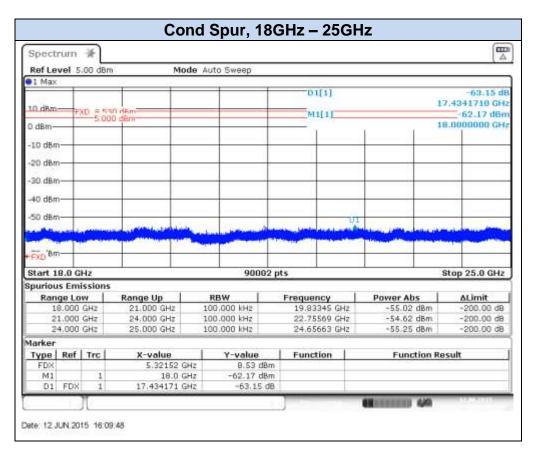
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802.11n20, HT8 (MIMO) - Chain A, CH11

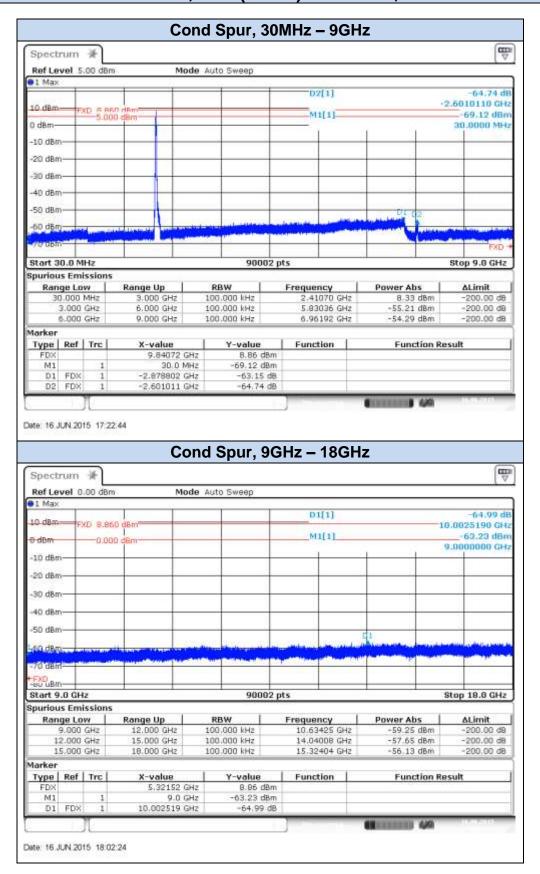


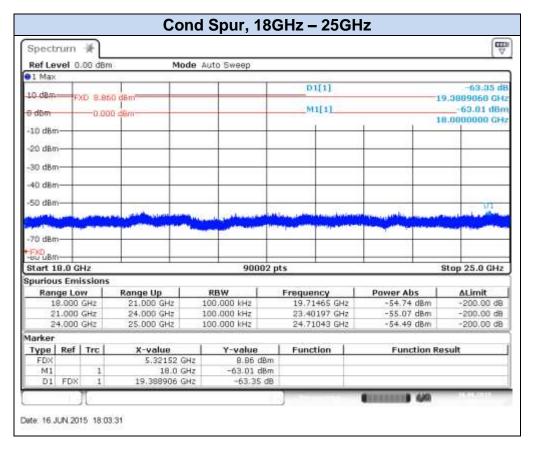
Rev. 00



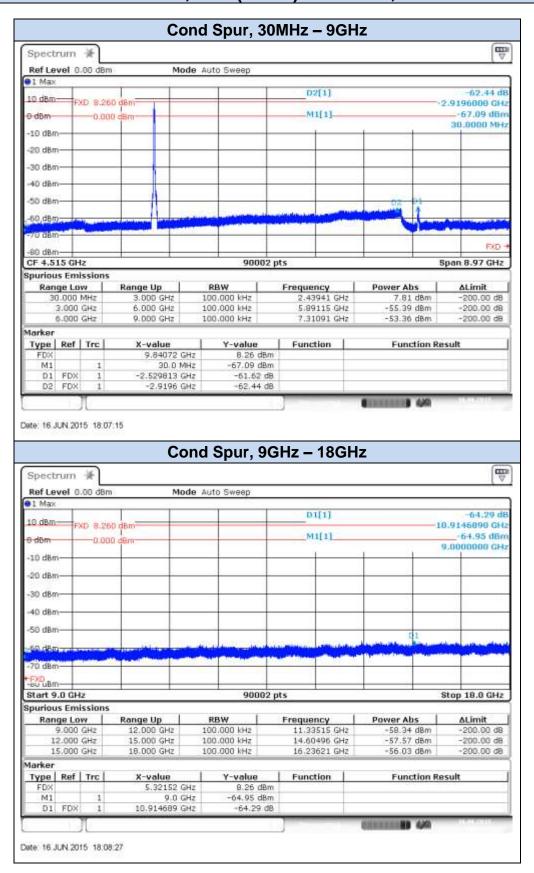


802.11n20, HT8 (MIMO) - Chain B, CH1

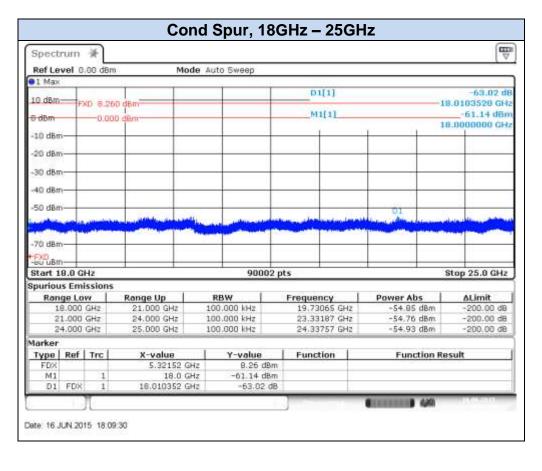




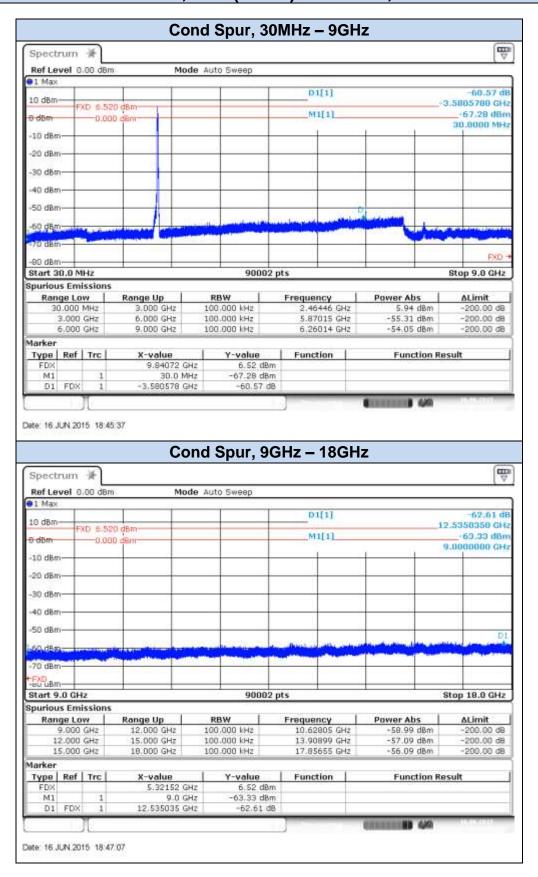
802.11n20, HT8 (MIMO) - Chain B, CH6

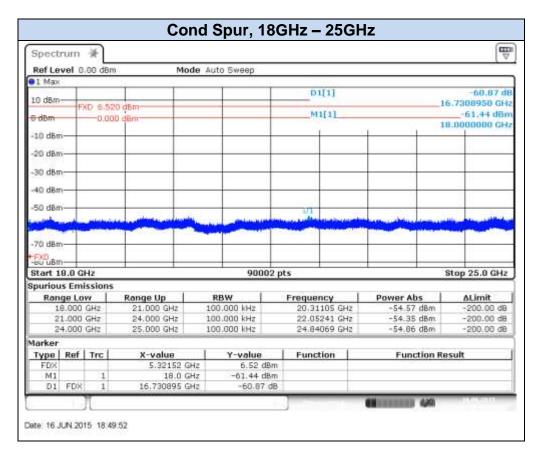




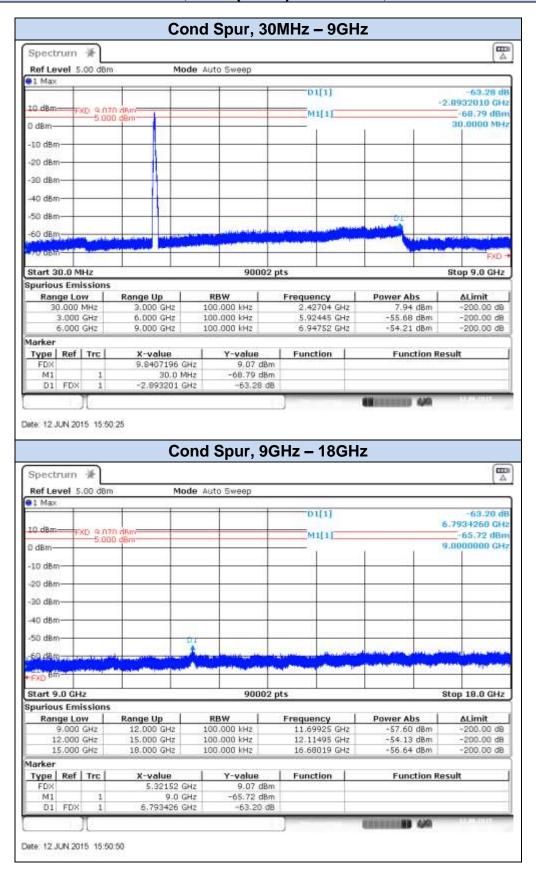


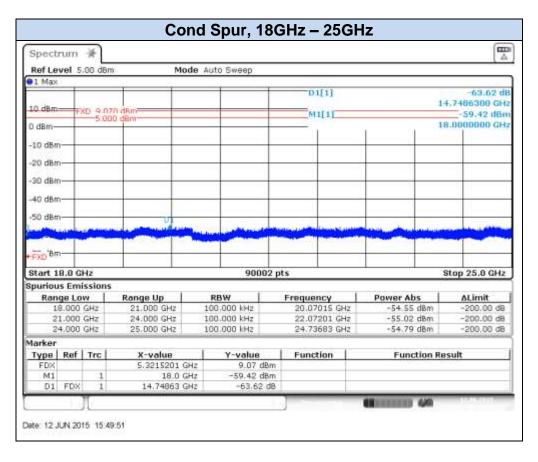
802.11n20, HT8 (MIMO) - Chain B, CH11



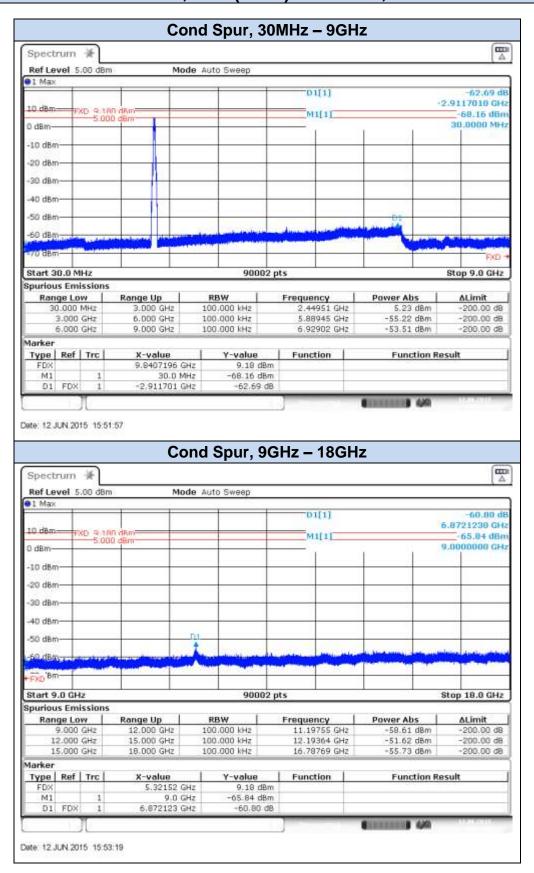


802.11n40, HT0 (SISO) - Chain A, CH3F

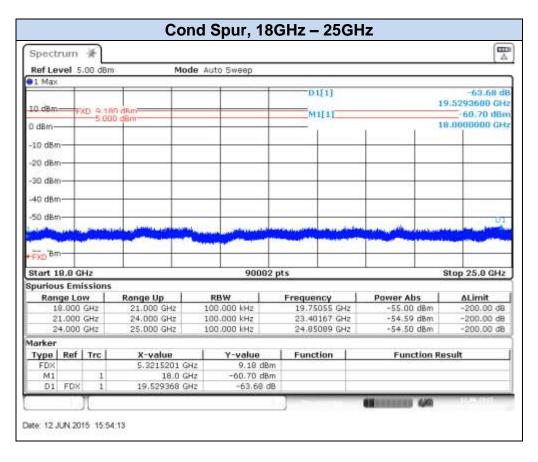




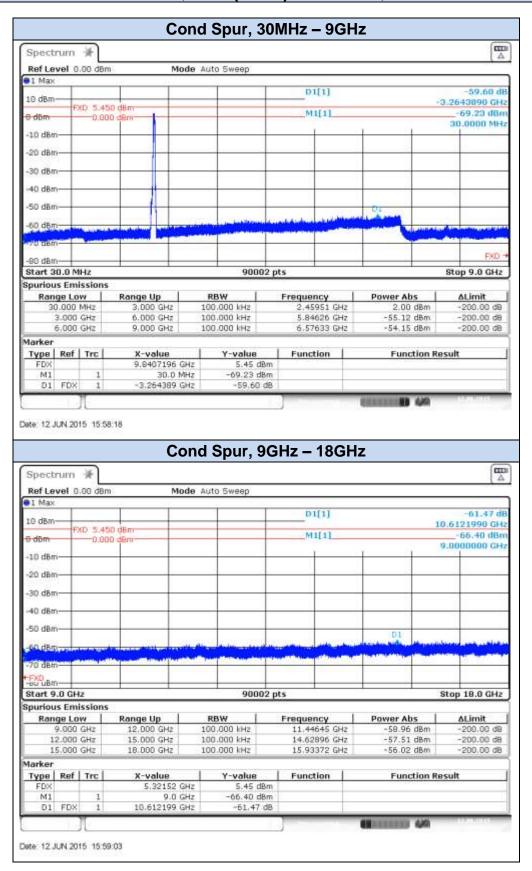
802.11n40, HT0 (SISO) - Chain A, CH6F

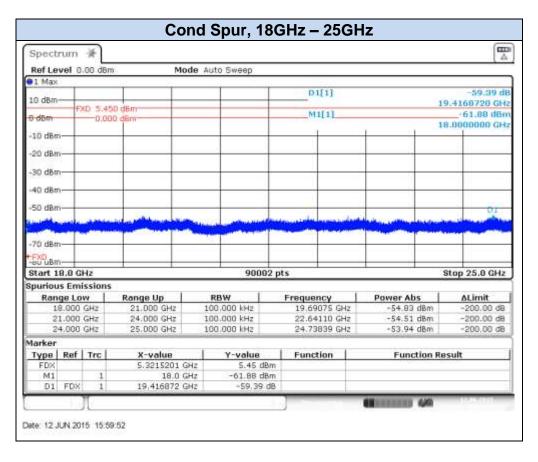


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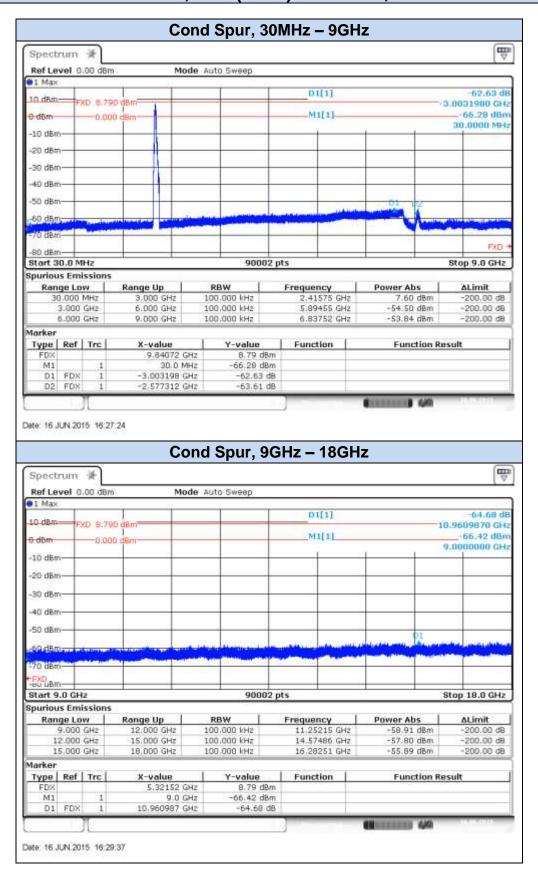


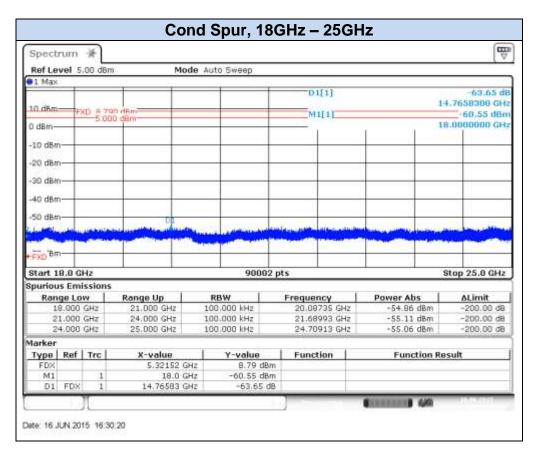
802.11n40, HT0 (SISO) - Chain A, CH9F



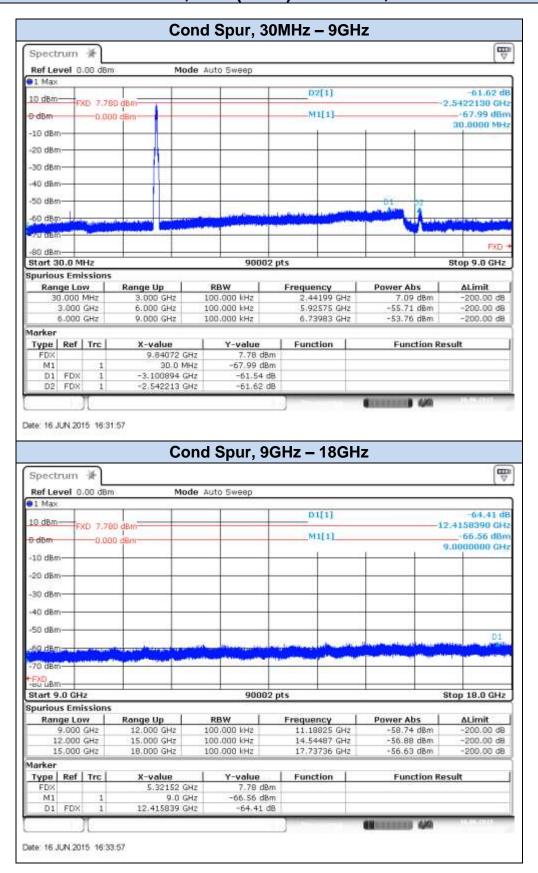


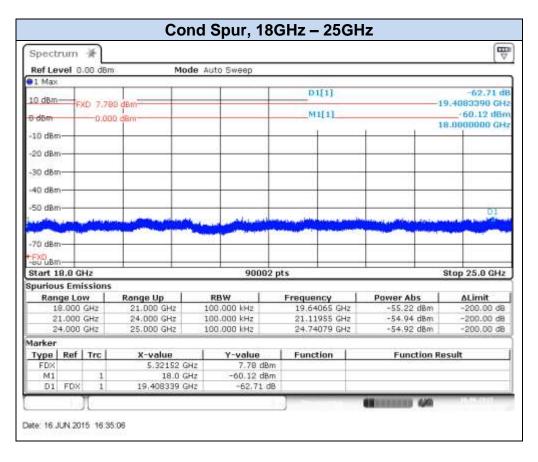
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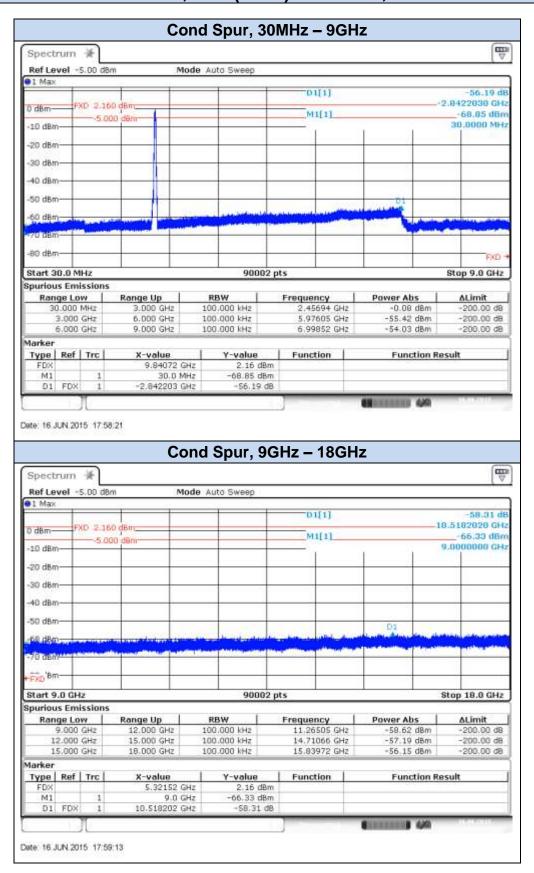


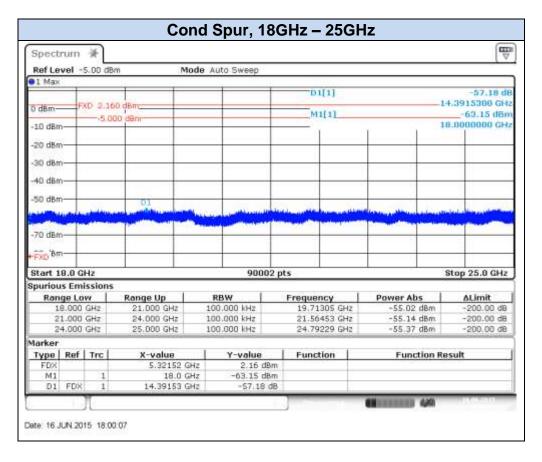
802.11n40, HT0 (SISO) - Chain B, CH6F



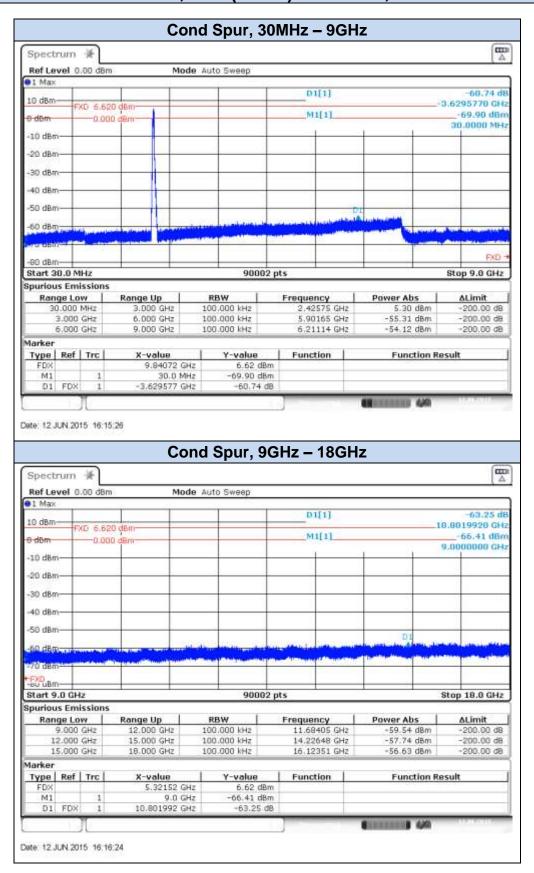


802.11n40, HT0 (SISO) - Chain B, CH9F

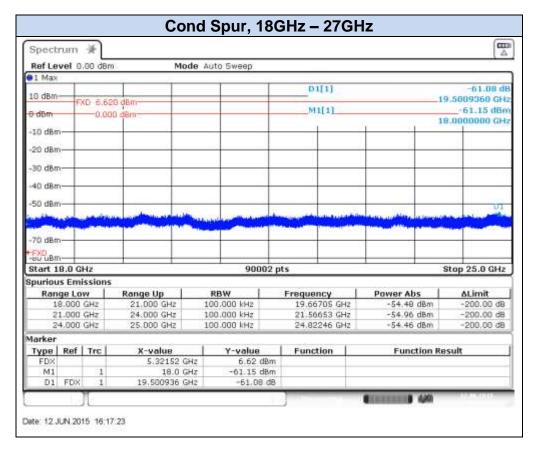




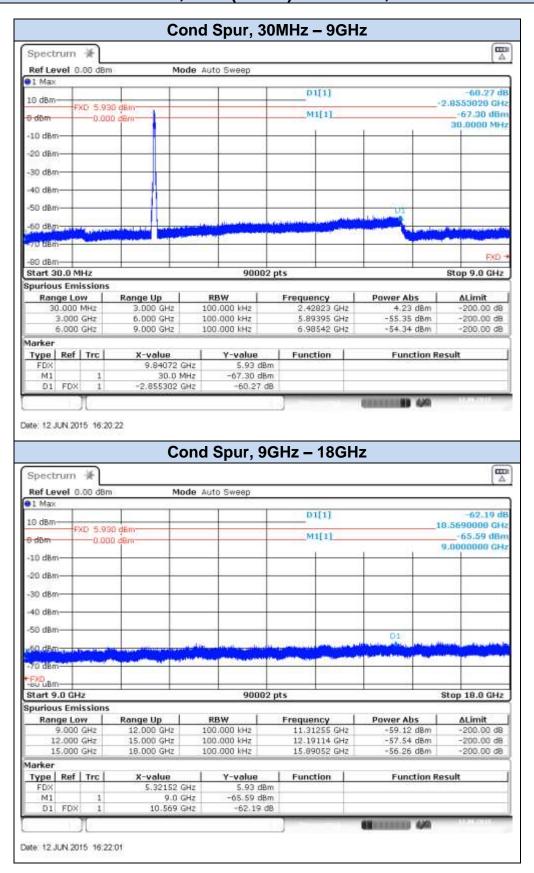
802.11n40, HT8 (MIMO) - Chain A, CH3F

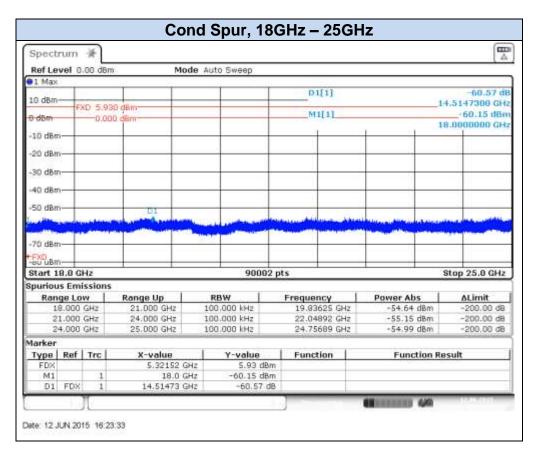


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802.11n40, HT8 (MIMO) - Chain A, CH6F





802.11n40, HT8 (MIMO) - Chain A, CH9F

