

9.4 POWER SPECTRAL DENSITY

802.11b		ANT1	ANT2	CDD Result (dBm)	Limit (dBm)
Frequency (MHz)	Channel No.	Measured Power (dBm) + Duty Factor (dB)	Measured Power (dBm) + Duty Factor (dB)		
2412	1	-6.89	-6.45	-3.65	7.73 dBm/3kHz
2437	6	-5.80	-5.84	-2.81	
2462	11	-7.09	-5.61	-3.28	

802.11g		ANT1	ANT2	CDD Result (dBm)	Limit (dBm)
Frequency (MHz)	Channel No.	Measured Power (dBm) + Duty Factor (dB)	Measured Power (dBm) + Duty Factor (dB)		
2412	1	-11.17	-10.88	-8.01	7.73 dBm/3kHz
2437	6	-8.09	-8.46	-5.26	
2462	11	-11.41	-10.65	-8.00	

802.11n HT20		ANT1	ANT2	CDD Result (dBm)	Limit (dBm)
Frequency (MHz)	Channel No.	Measured Power (dBm) + Duty Factor (dB)	Measured Power (dBm) + Duty Factor (dB)		
2412	1	-11.30	-10.25	-7.73	7.73 dBm/3kHz
2437	6	-9.74	-6.63	-4.90	
2462	11	-11.71	-12.04	-8.86	

802.11n HT40		ANT1	ANT2	CDD Result (dBm)	Limit (dBm)
Frequency (MHz)	Channel No.	Measured Power (dBm) + Duty Factor (dB)	Measured Power (dBm) + Duty Factor (dB)		
2422	3	-12.64	-13.78	-10.16	7.73 dBm/3kHz
2437	6	-12.10	-13.13	-9.57	
2452	9	-15.50	-13.47	-11.36	

802.11ax HE20		ANT1	ANT2	CDD Result (dBm)	Limit (dBm)
Frequency (MHz)	Channel No.	Measured Power (dBm) + Duty Factor (dB)	Measured Power (dBm) + Duty Factor (dB)		
2412	1	-12.08	-13.05	-9.53	7.73 dBm/3kHz
2437	6	-9.25	-10.37	-6.76	
2462	11	-13.39	-10.50	-8.70	

802.11ax HE40		ANT1	ANT2	CDD Result (dBm)	Limit (dBm)
Frequency (MHz)	Channel No.	Measured Power (dBm) + Duty Factor (dB)	Measured Power (dBm) + Duty Factor (dB)		
2422	3	-15.49	-14.81	-12.13	7.73 dBm/3kHz
2437	6	-13.79	-13.46	-10.61	
2452	9	-16.49	-15.39	-12.89	

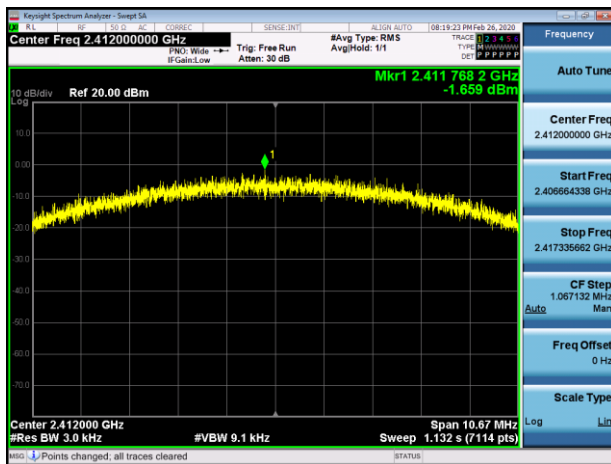
Note :

1. The PSD results in plot include the spectrum offset, which is a combination loss of the attenuator and the cable used for testing.
2. PSD Limit = 8 dBm/3kHz – (6.27 dBi – 6dBi) = 7.73 dBm/3kHz

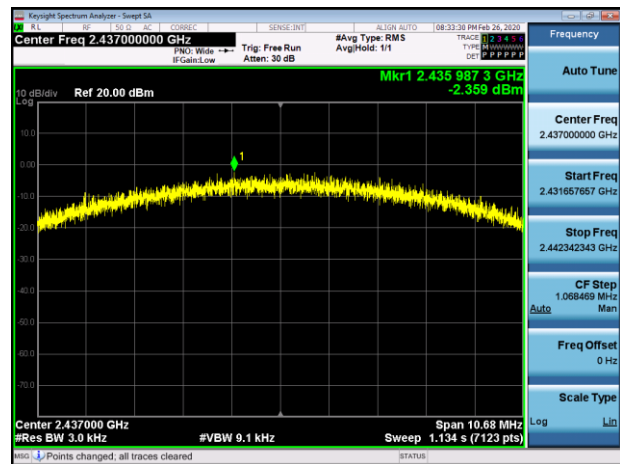
Test Plots (PSD)

ANT 1

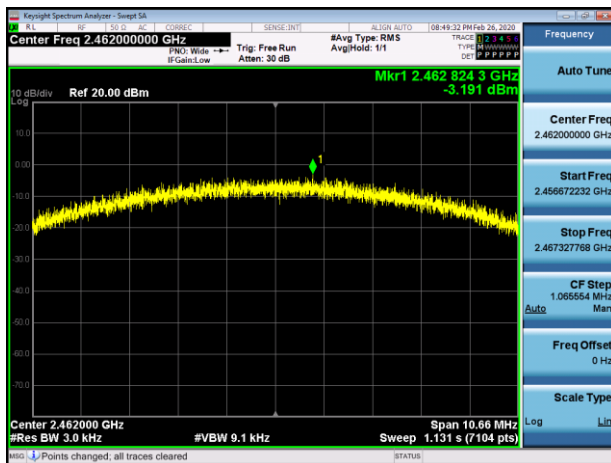
802.11 b (CH1 : 2412 MHz)



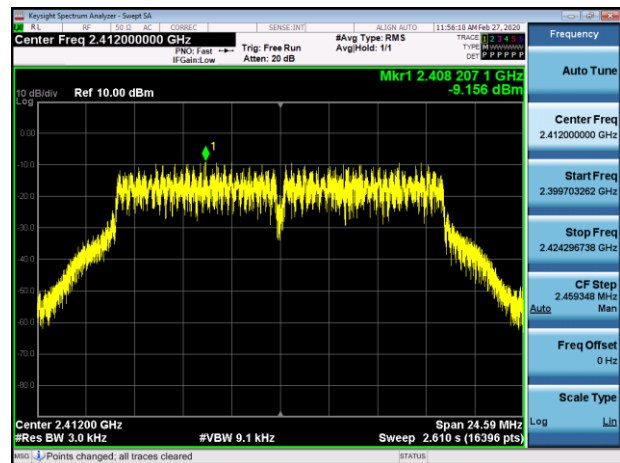
802.11 b (CH6 : 2437 MHz)



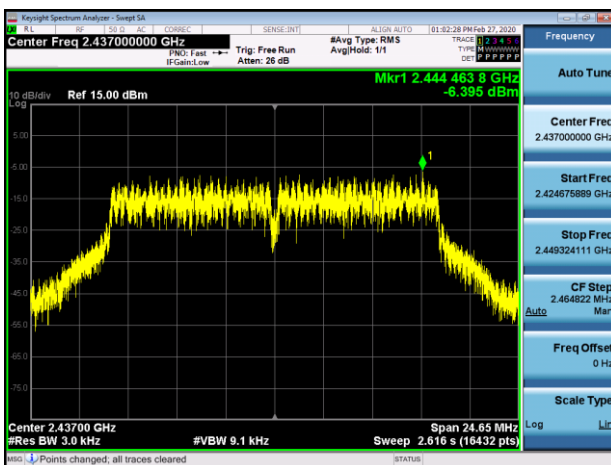
802.11 b (CH11 : 2462 MHz)



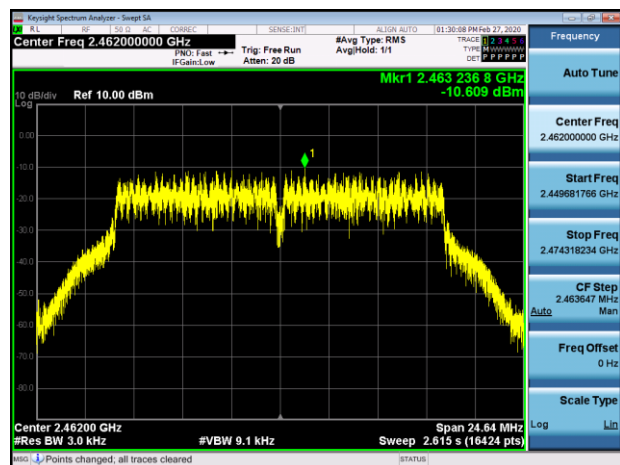
802.11 g (CH1 : 2412 MHz)



802.11 g (CH6 : 2437 MHz)



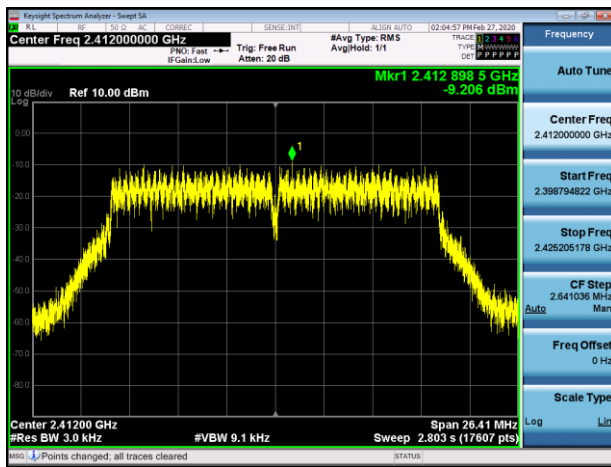
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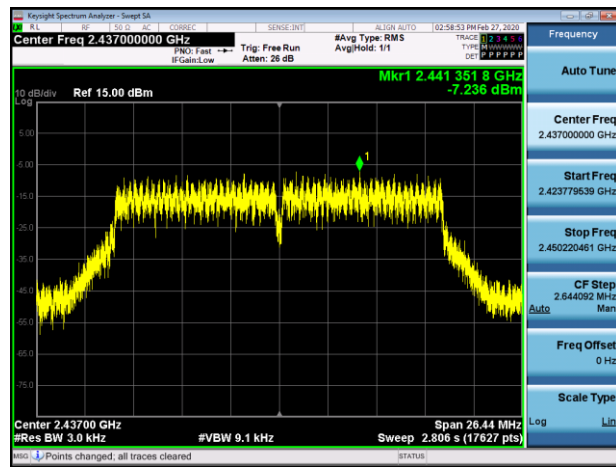
Test Plots (PSD)

ANT1

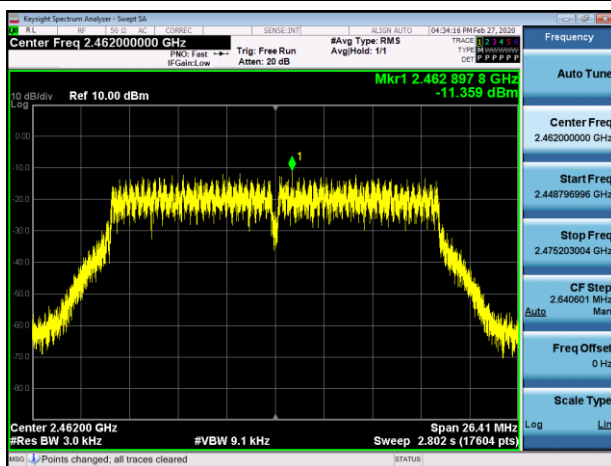
802.11 n HT20 (CH1 : 2412 MHz)



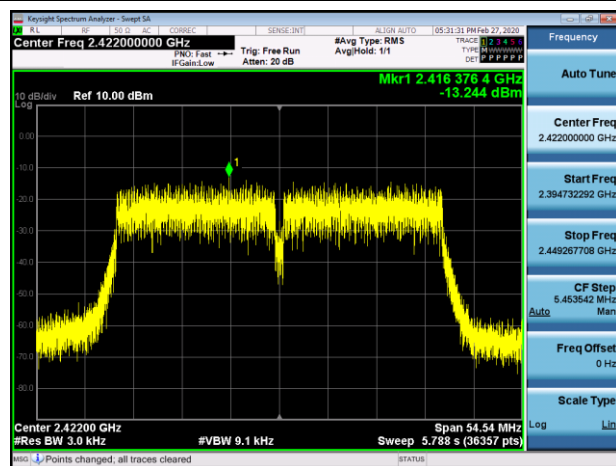
802.11 n HT20 (CH6 : 2437 MHz)



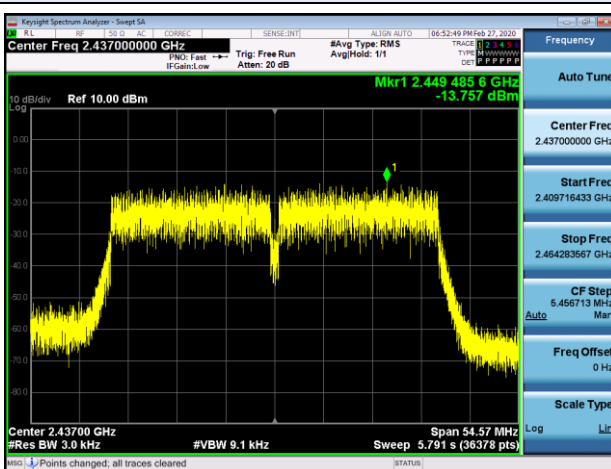
802.11 n HT20 (CH11 : 2452 MHz)



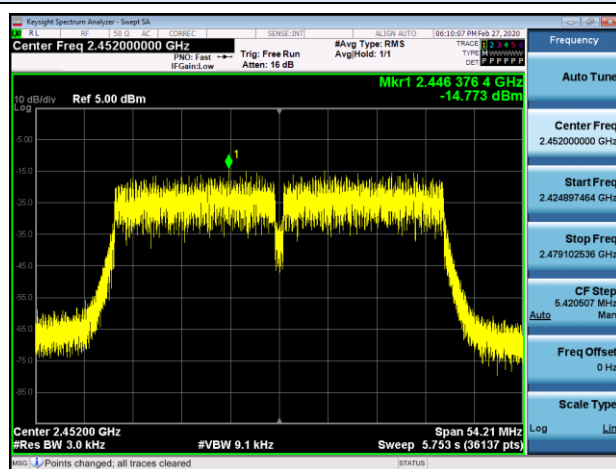
802.11 n HT40 (CH3 : 2422 MHz)



802.11 n HT40 (CH6 : 2437 MHz)

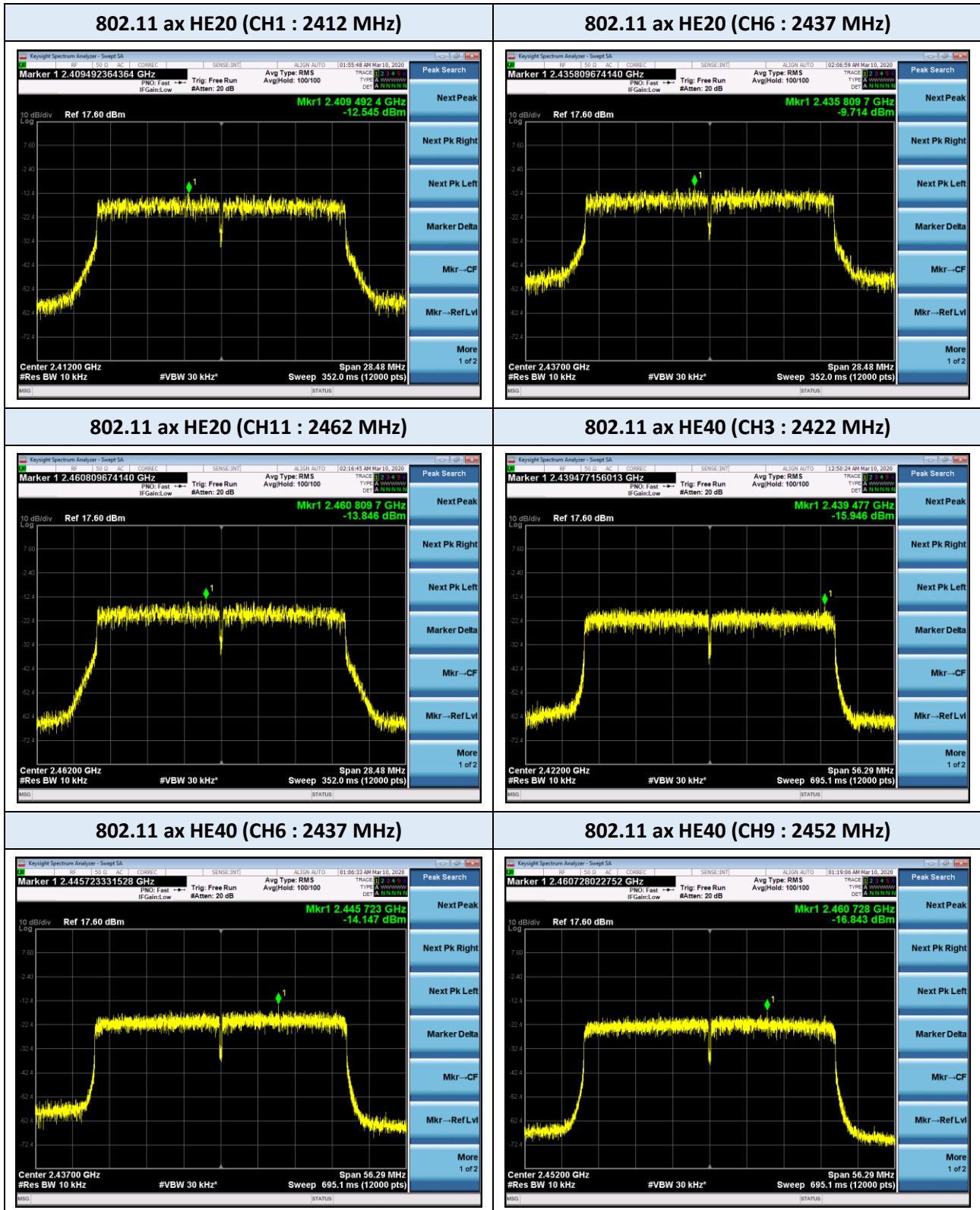


802.11 n HT40 (CH9 : 2452 MHz)



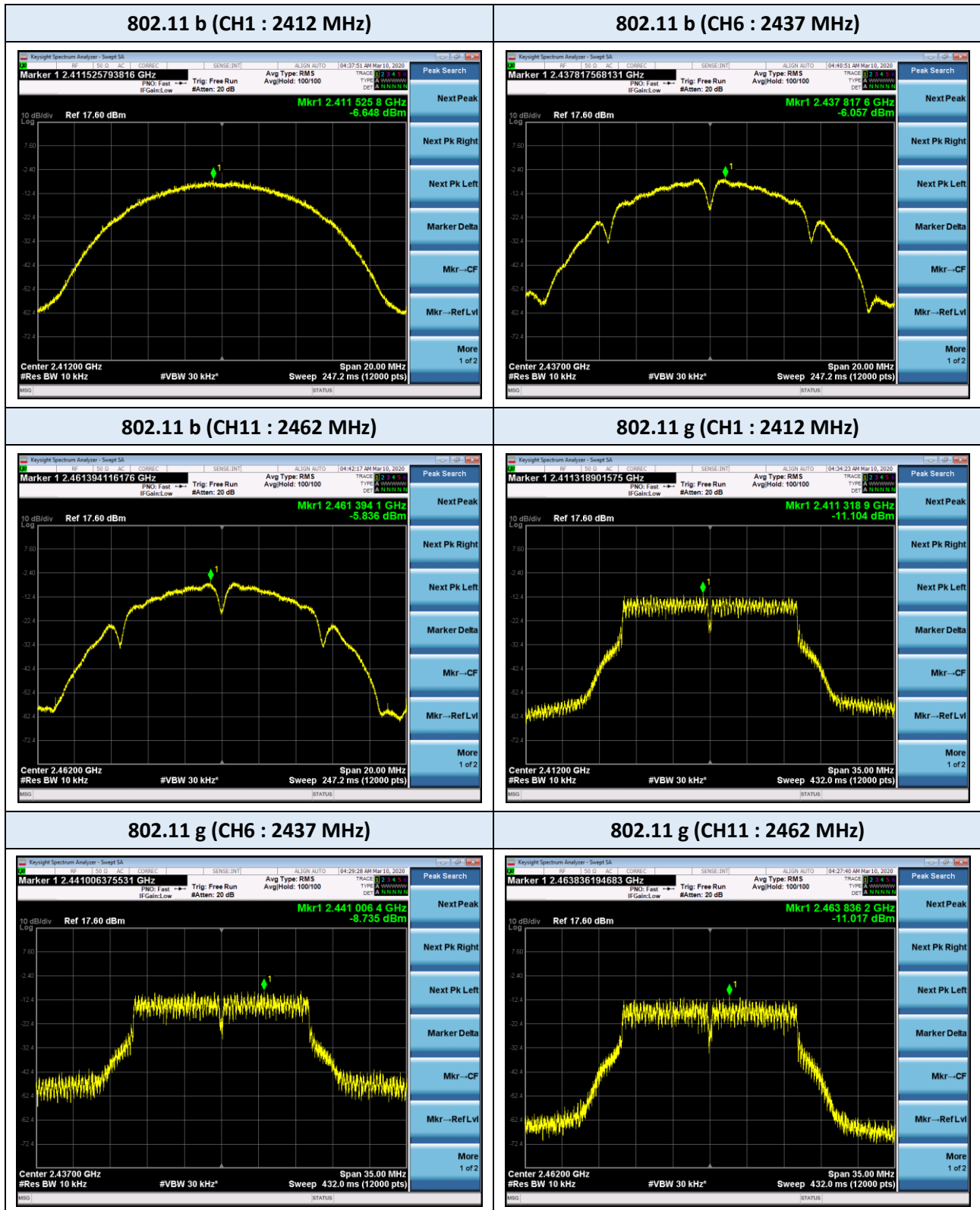
Test Plots (PSD)

ANT1



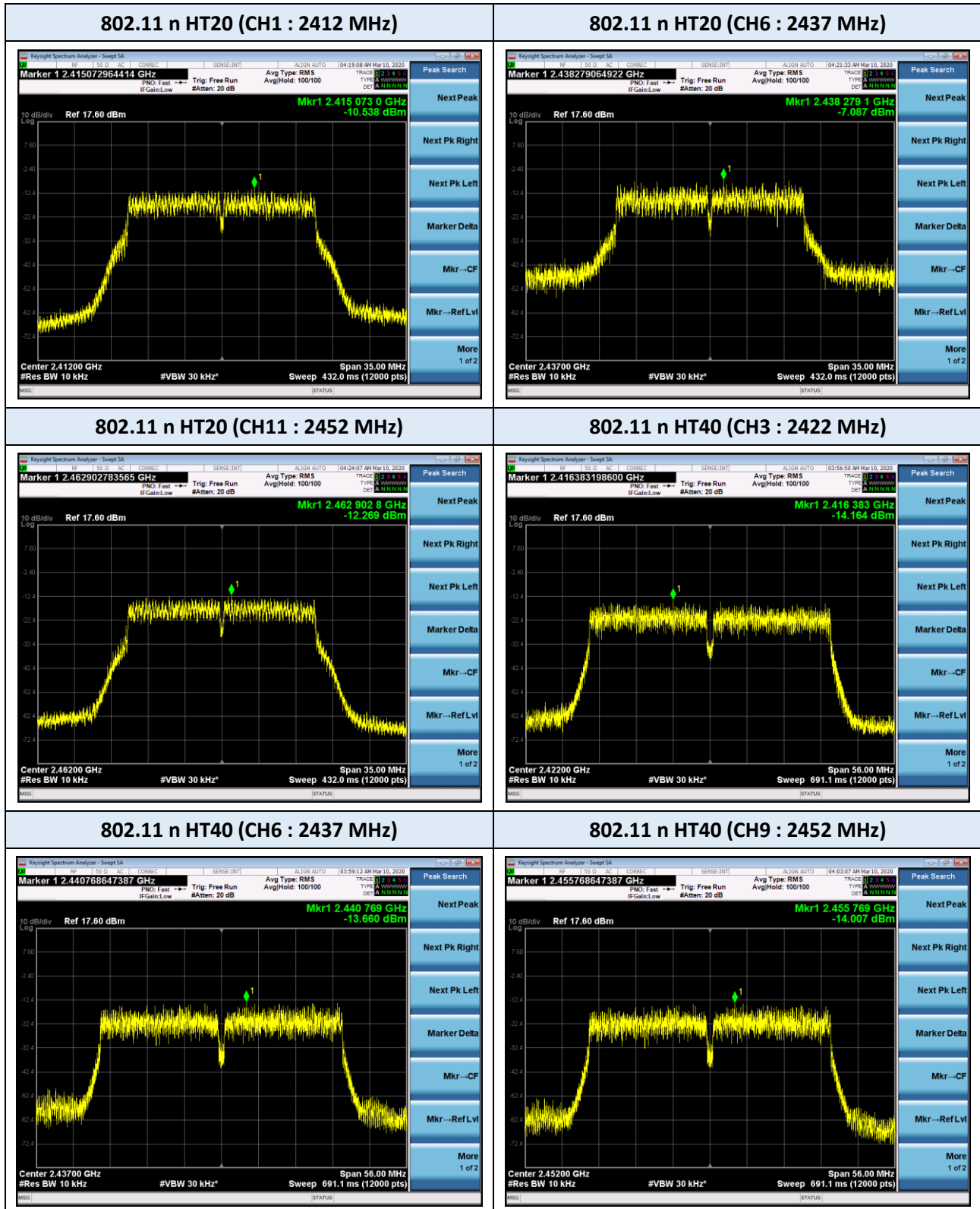
Test Plots (PSD)

ANT2



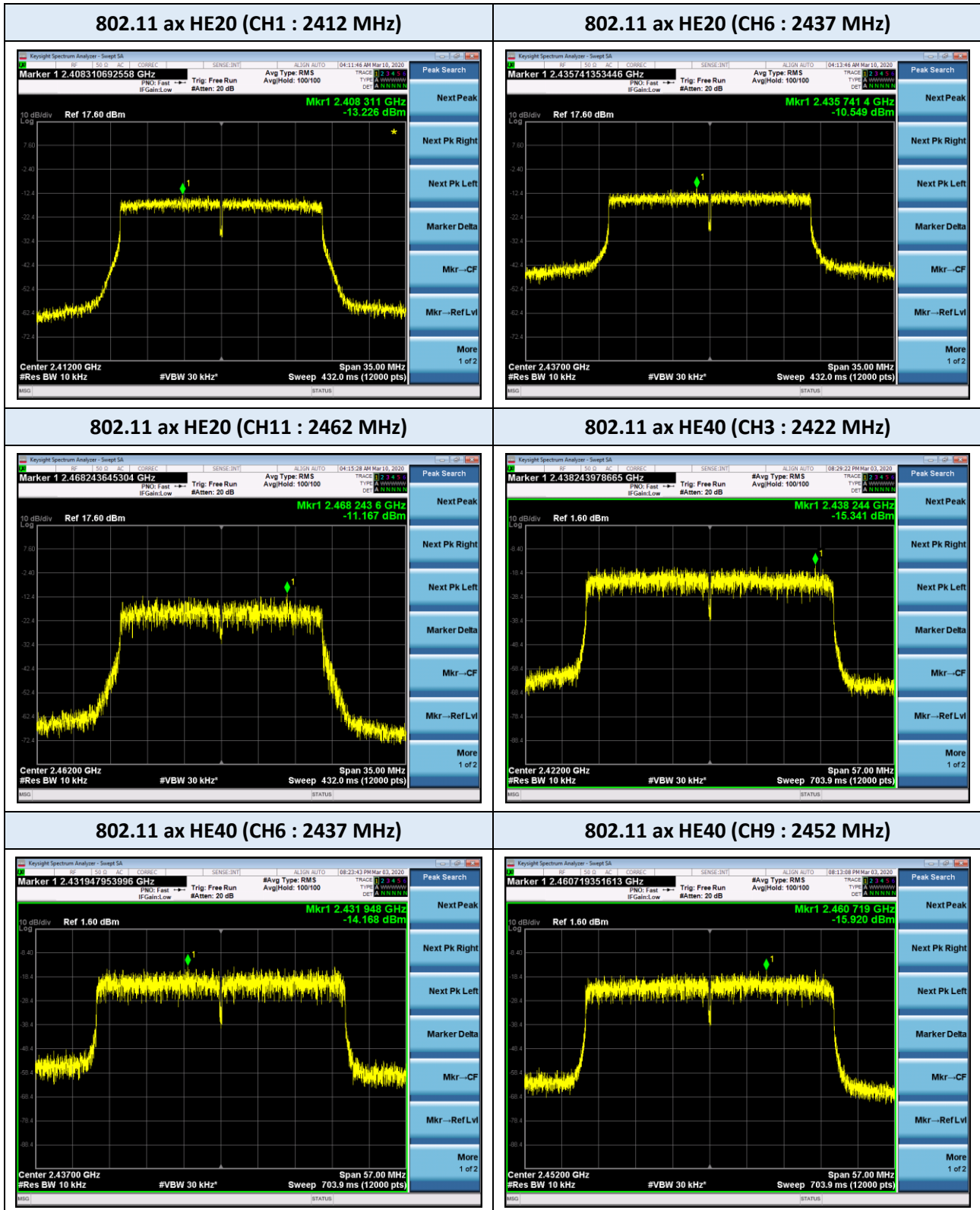
Test Plots (PSD)

ANT2



Test Plots (PSD)

ANT2



9.5 CONDUCTED BAND EDGE & SPURIOUS EMISSIONS

Out of Band Emissions at the Band Edge

802.11 b			Test Result		
Frequency [MHz]	Channel No.	Position	ANT1 Measured Power (dBc)	ANT2 Measured Power (dBc)	Limit [dBc]
2412	1	Lower	50.39	48.04	30
2462	11	Upper	58.57	58.11	30

802.11 g			Test Result		
Frequency [MHz]	Channel No.	Position	ANT1 Measured Power (dBc)	ANT2 Measured Power (dBc)	Limit [dBc]
2412	1	Lower	35.50	32.54	30
2462	11	Upper	46.44	43.94	30

802.11 n HT20			Test Result		
Frequency [MHz]	Channel No.	Position	ANT1 Measured Power (dBc)	ANT2 Measured Power (dBc)	Limit [dBc]
2412	1	Lower	35.40	33.79	30
2462	11	Upper	48.95	45.28	30

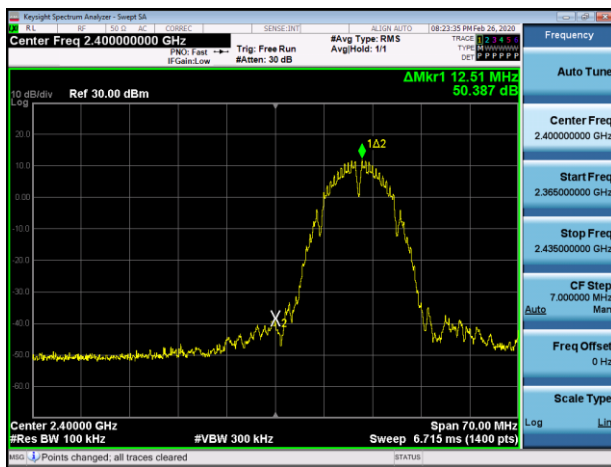
802.11 n HT40			Test Result		
Frequency [MHz]	Channel No.	Position	ANT1 Measured Power (dBc)	ANT2 Measured Power (dBc)	Limit [dBc]
2422	3	Lower	35.67	34.99	30
2452	9	Upper	44.48	44.64	30

802.11 ax HE20			Test Result		
Frequency [MHz]	Channel No.	Position	ANT1 Measured Power (dBc)	ANT2 Measured Power (dBc)	Limit [dBc]
2412	1	Lower	36.78	42.77	30
2462	11	Upper	37.18	40.67	30

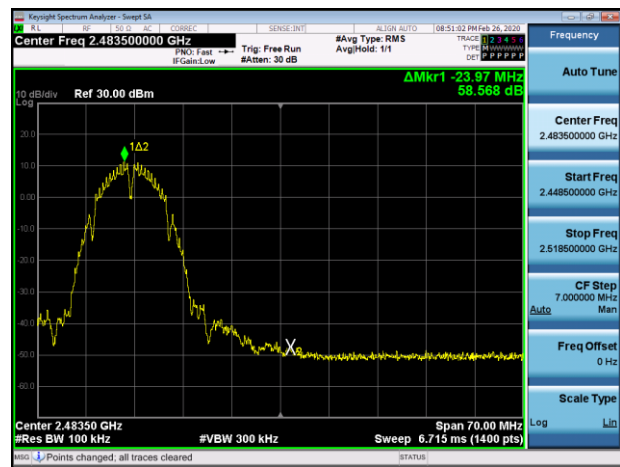
802.11 ax HE40			Test Result		
Frequency [MHz]	Channel No.	Position	ANT1 Measured Power (dBc)	ANT2 Measured Power (dBc)	Limit [dBc]
2422	3	Lower	32.36	44.05	30
2452	9	Upper	40.67	43.46	30

Test Plots (Conducted Band Edge)

802.11b (CH1 : 2412 MHz)



802.11b (CH11 : 2462 MHz)



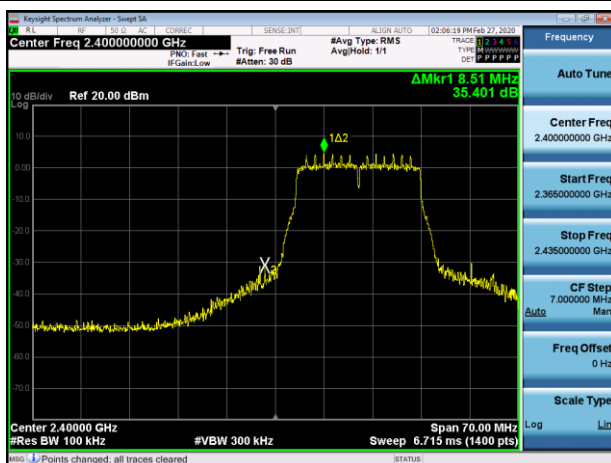
802.11g (CH1 : 2412 MHz)



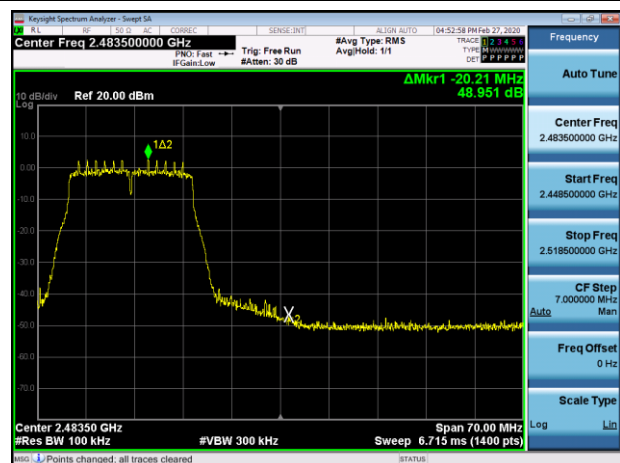
802.11g (CH11 : 2462 MHz)



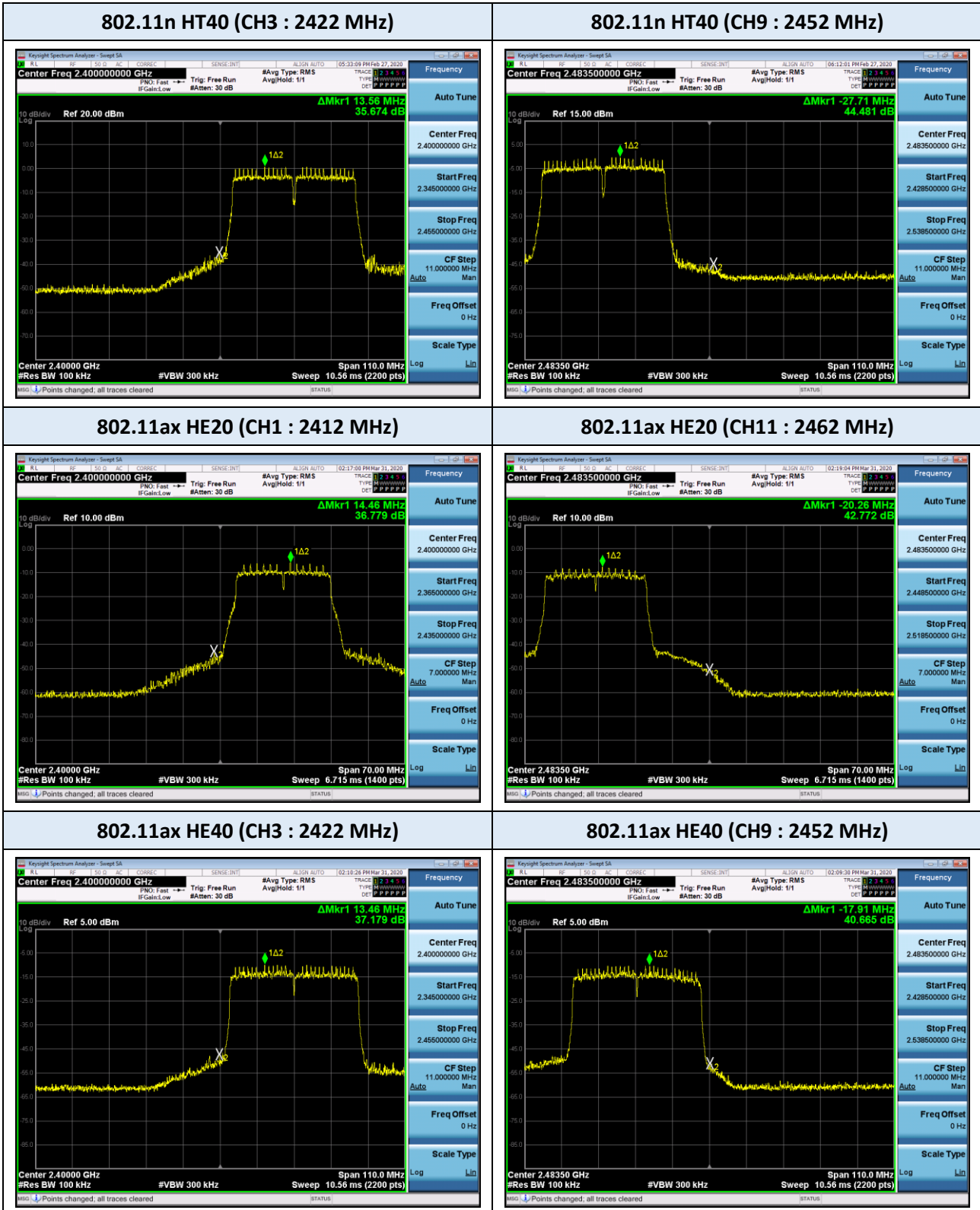
802.11n HT20 (CH1 : 2412 MHz)



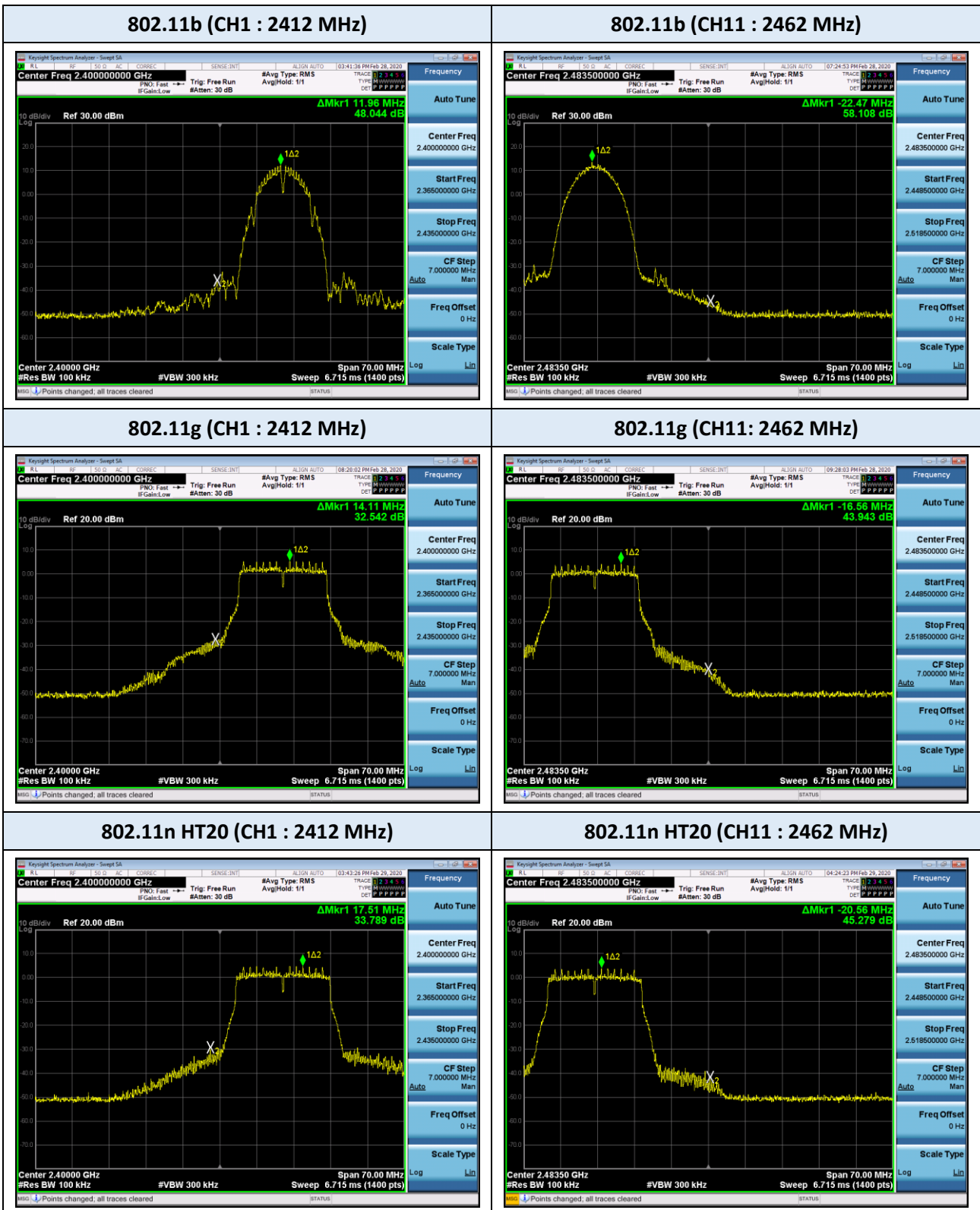
802.11n HT20 (CH11 : 2462 MHz)



■ Test Plots (Conducted Band Edge)



Test Plots (Conducted Band Edge)



■ Test Plots (Conducted Band Edge)

