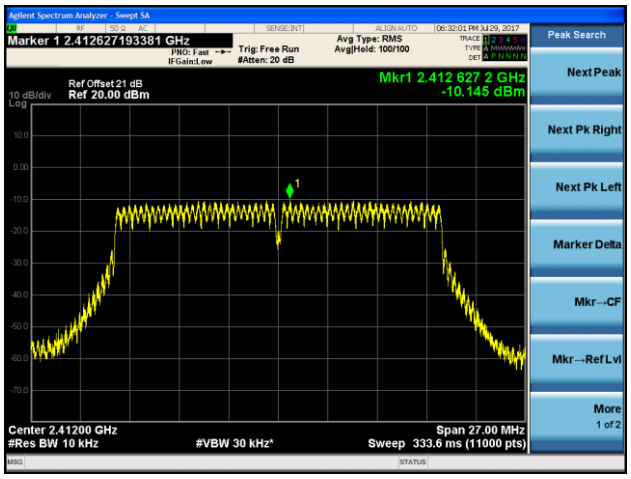
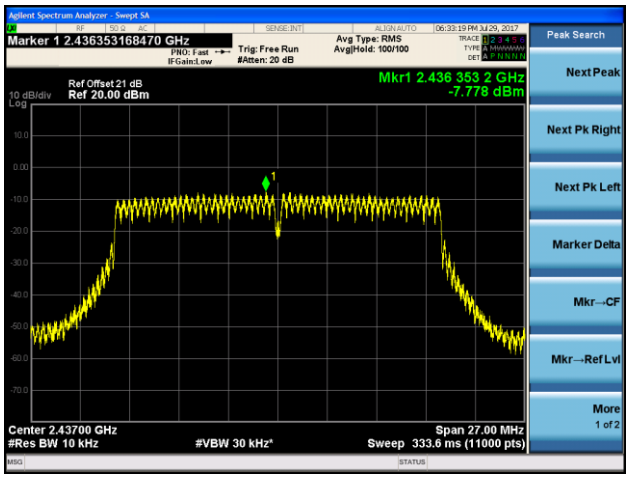
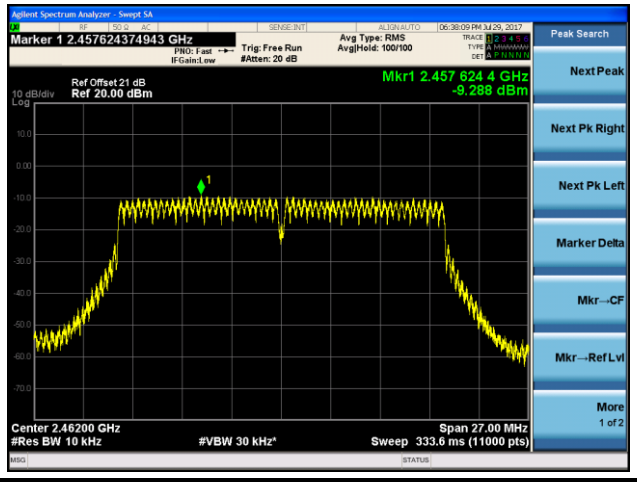
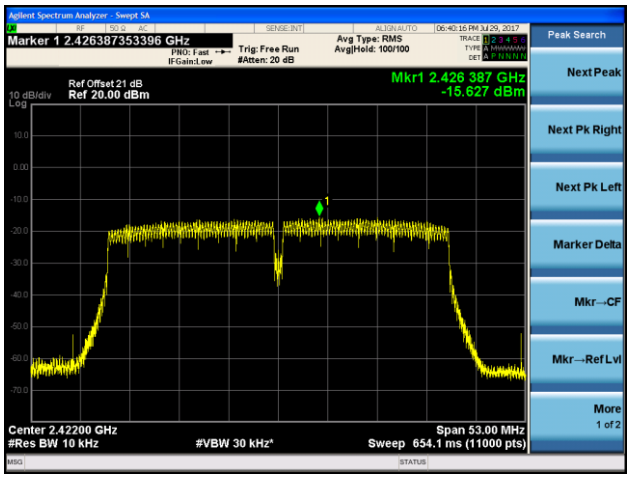
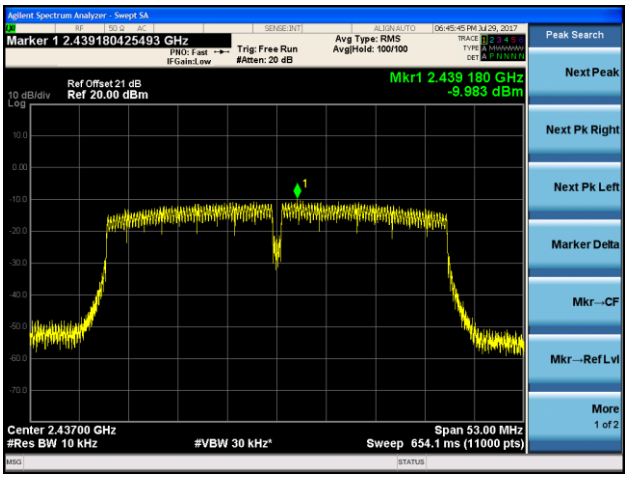
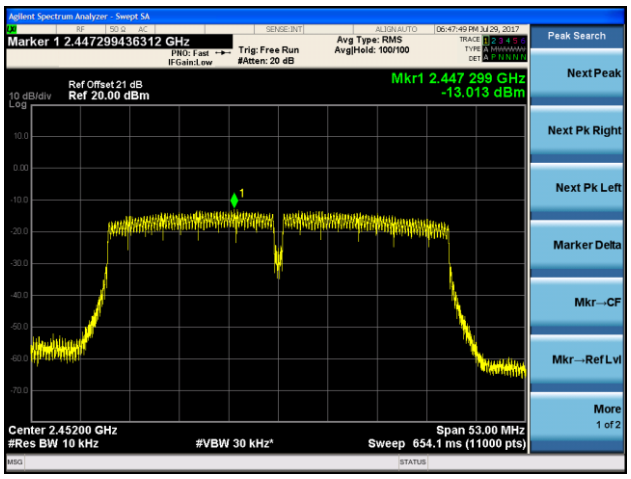
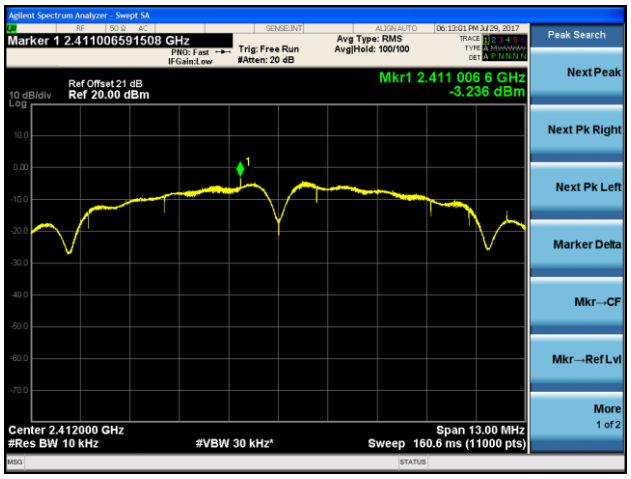
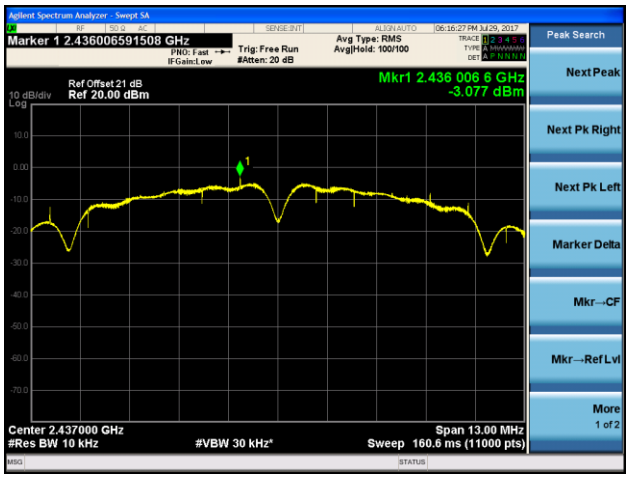
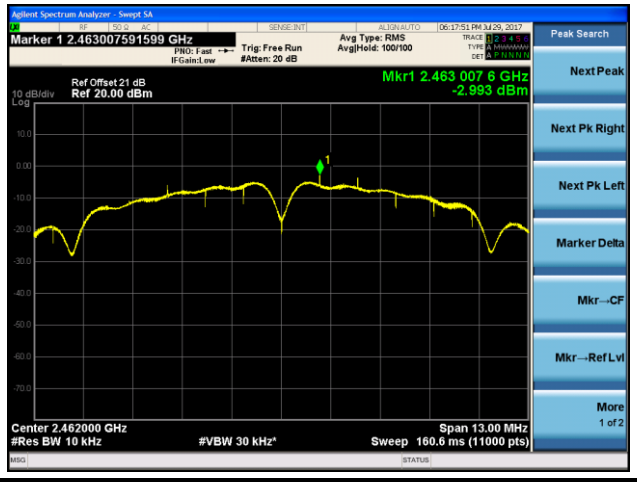
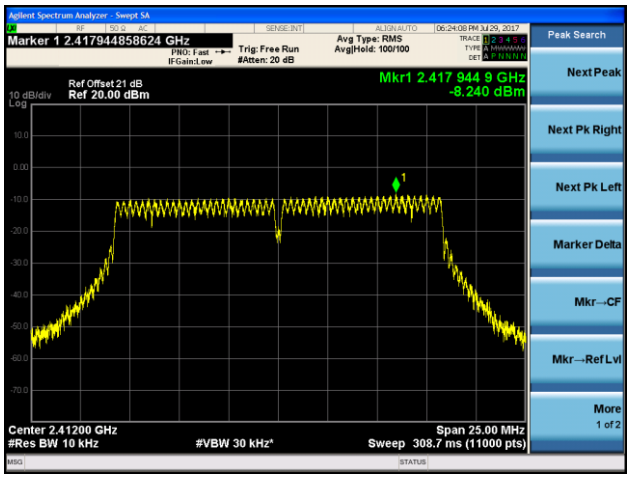
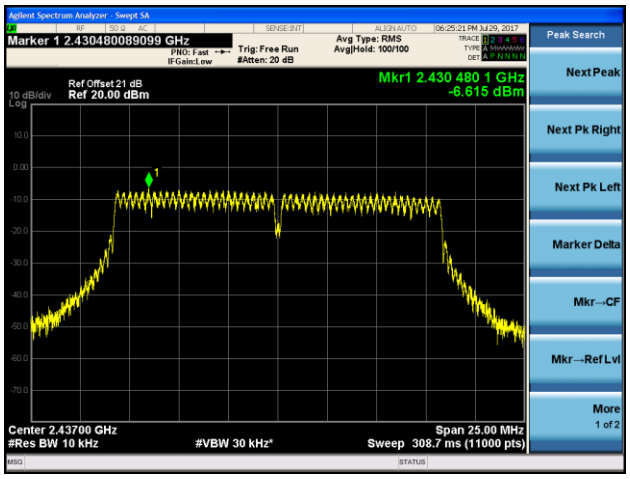
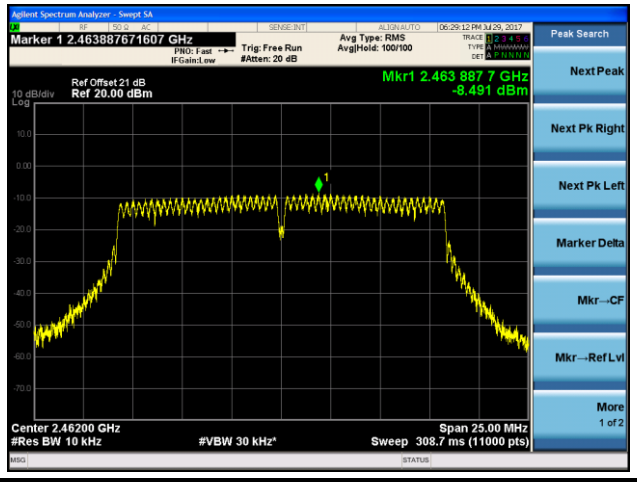
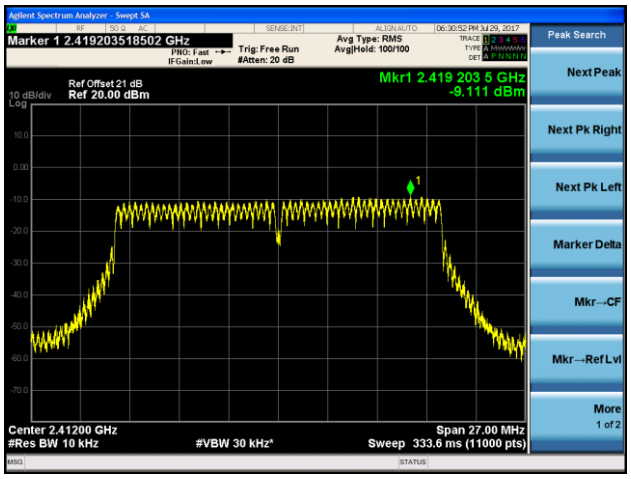
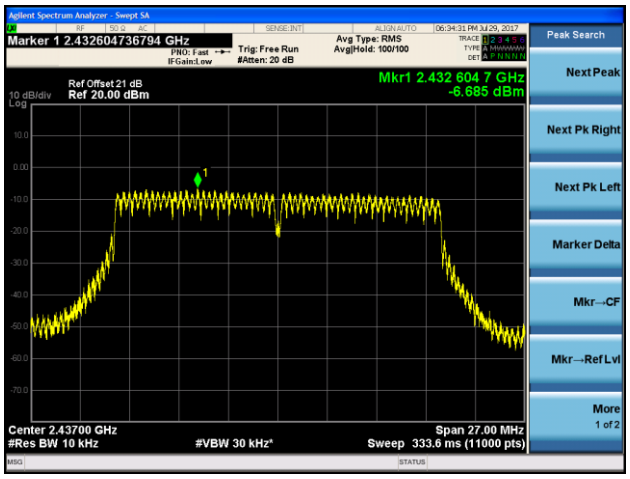
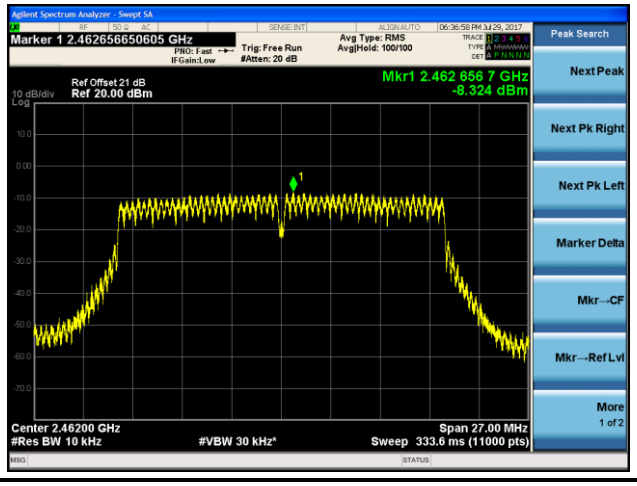
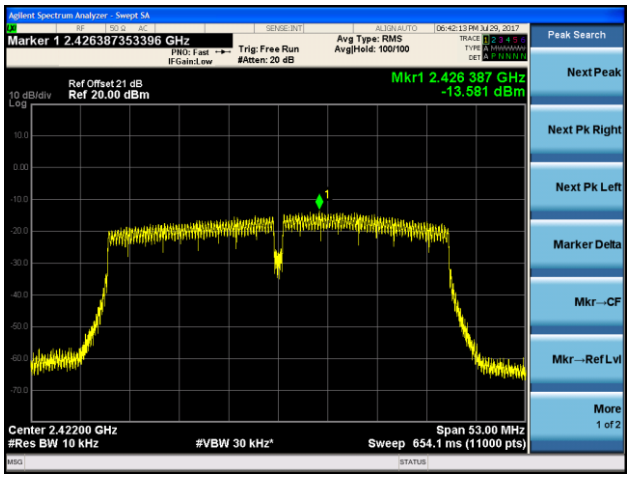
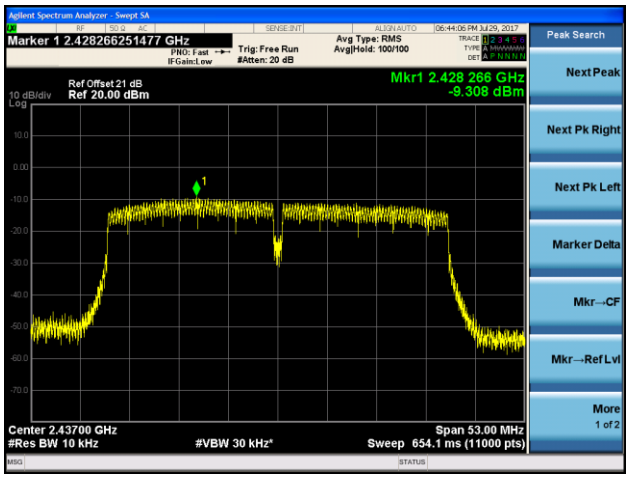
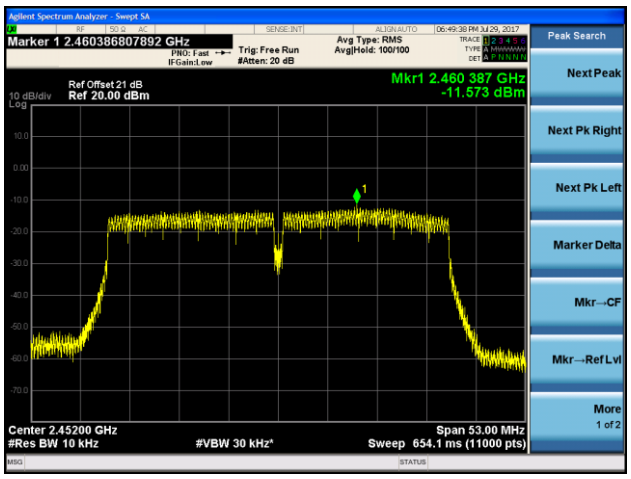
802.11n-HT20 AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

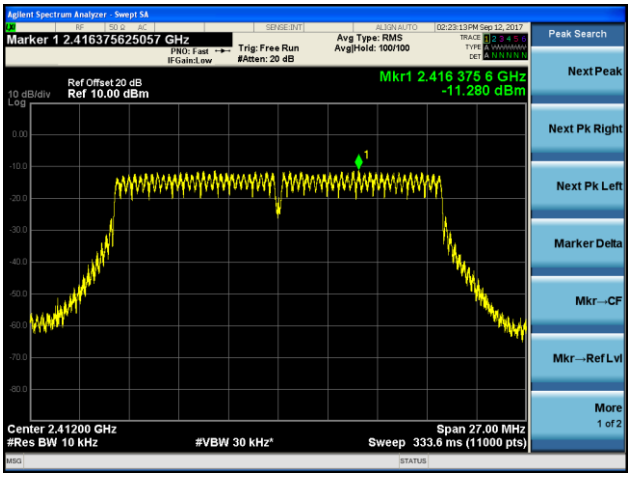
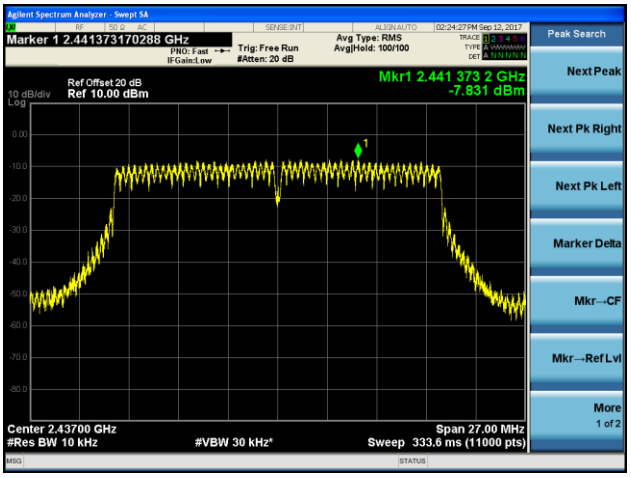
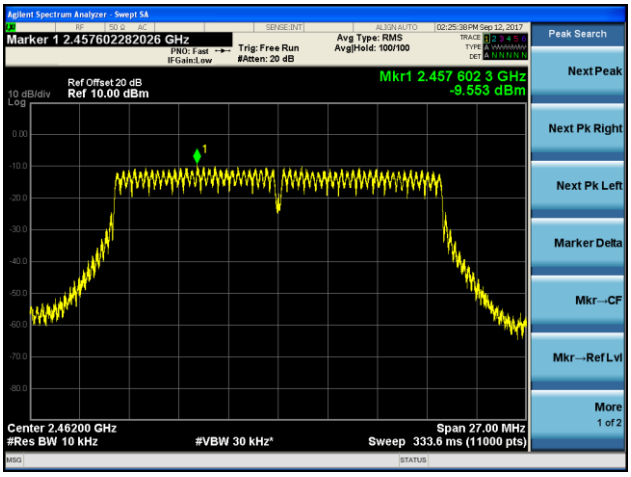
802.11n-HT40 AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

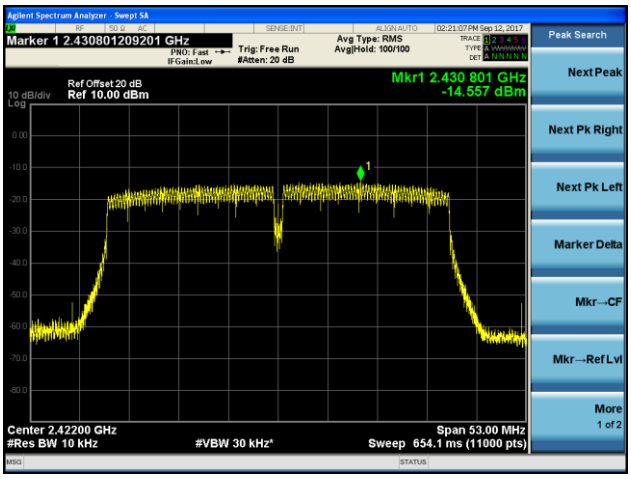
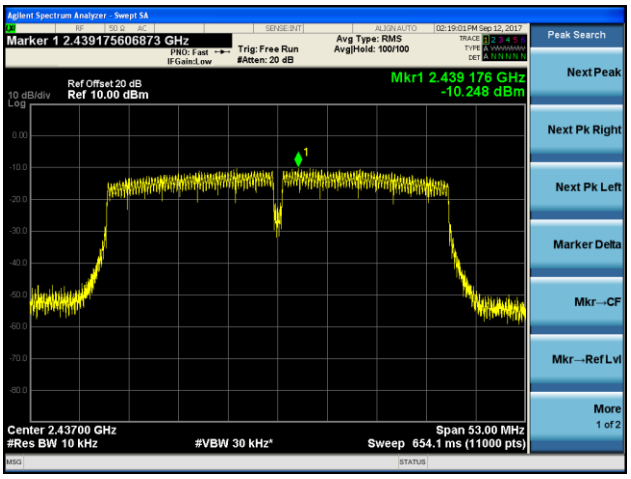
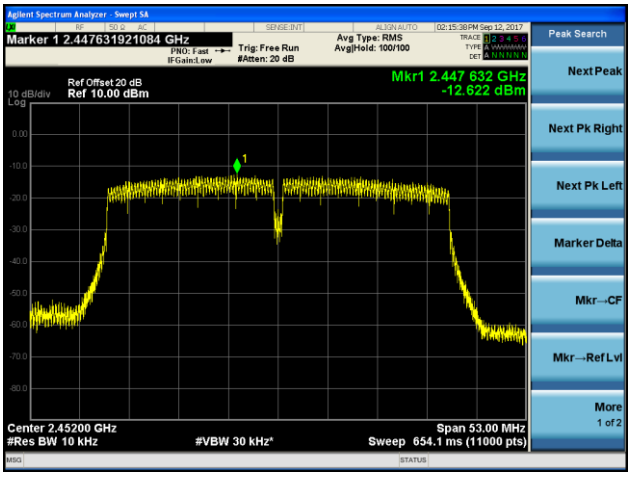
802.11b AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

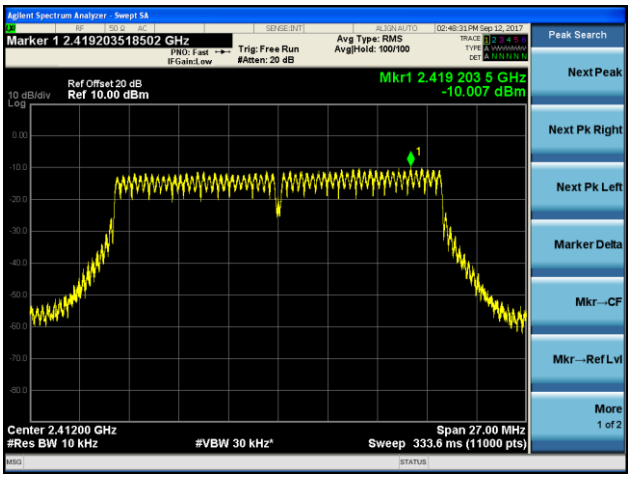
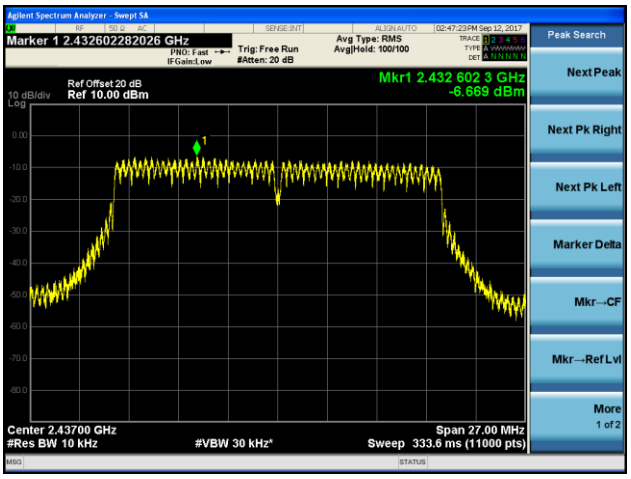
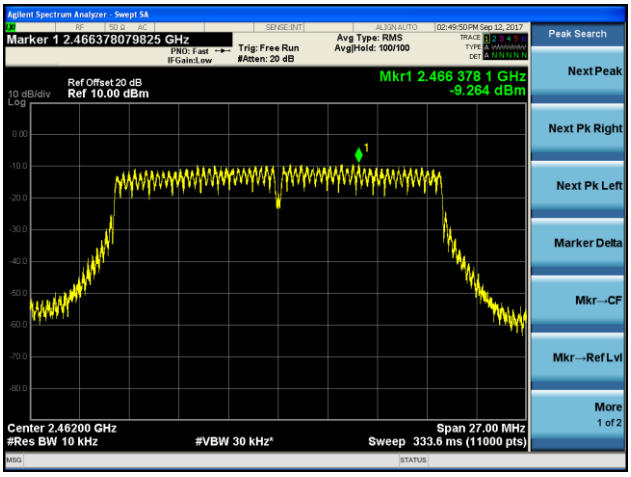
802.11g AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

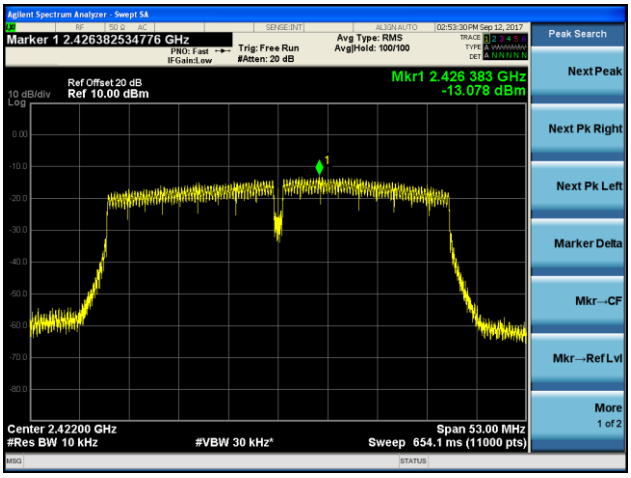
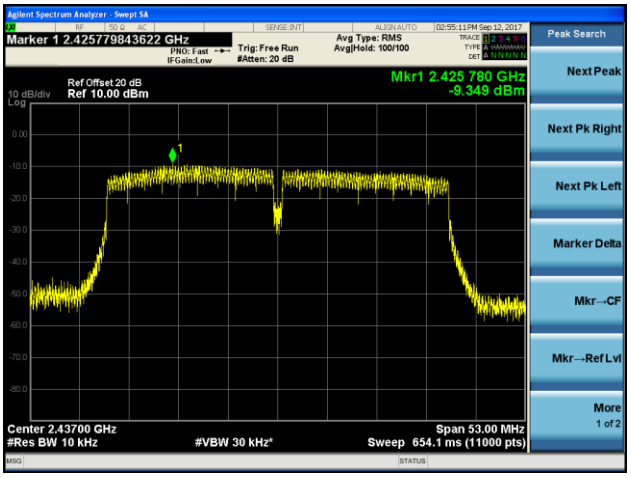
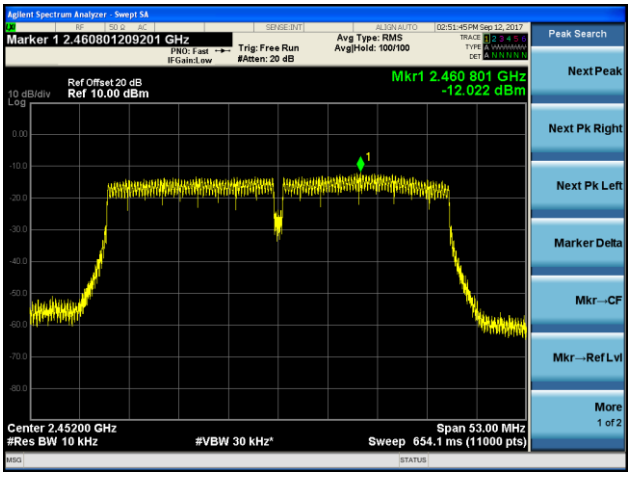
802.11n-HT20 AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

802.11n-HT20 AVGPSD - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

802.11n-HT20 AVGPSD - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

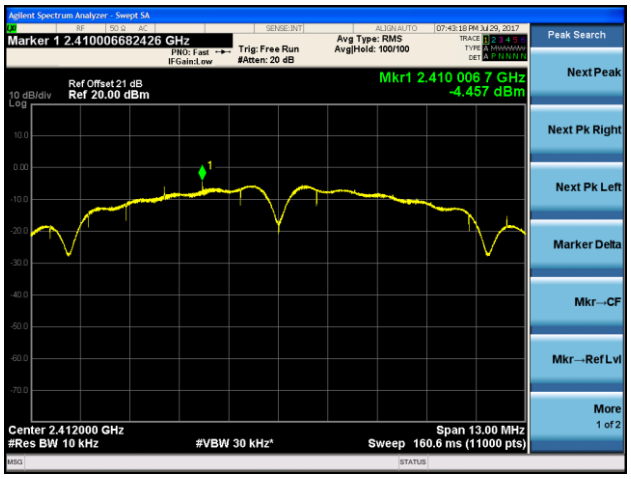
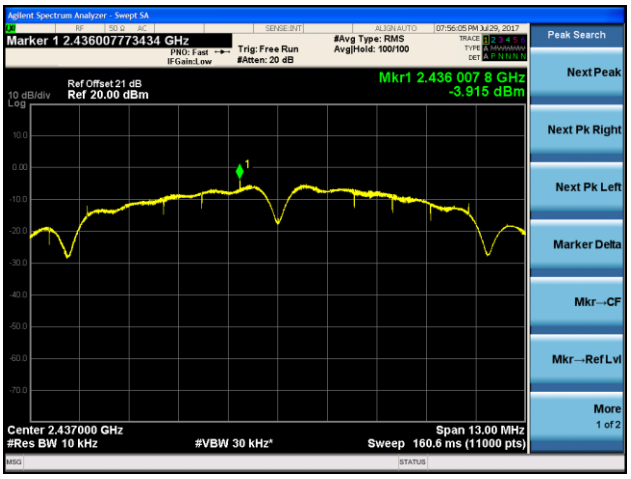
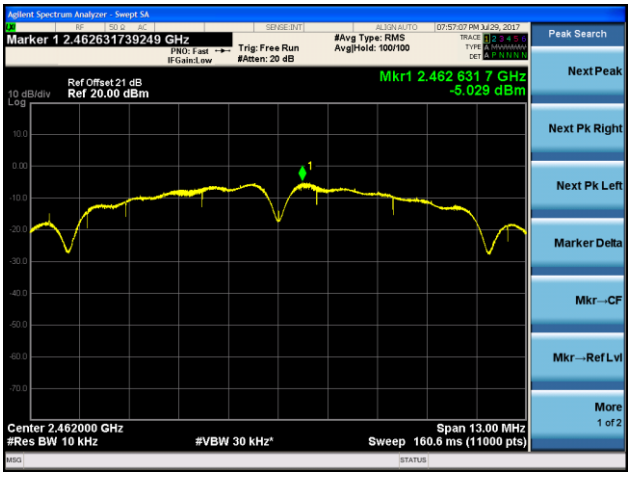
Product	AC220 Wi-Fi AP OD small omni antenna US	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2017/07/29

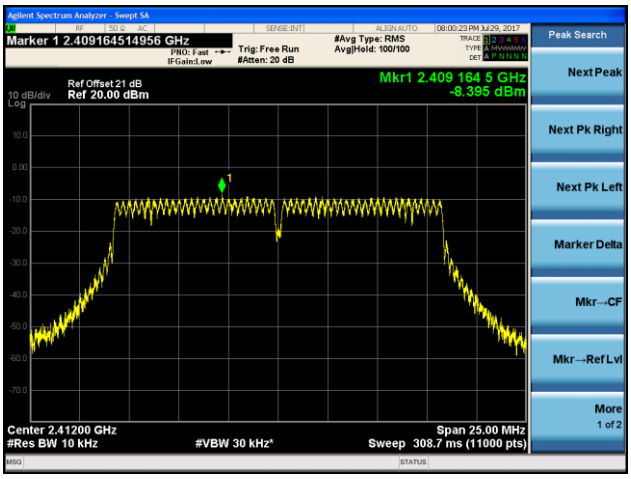
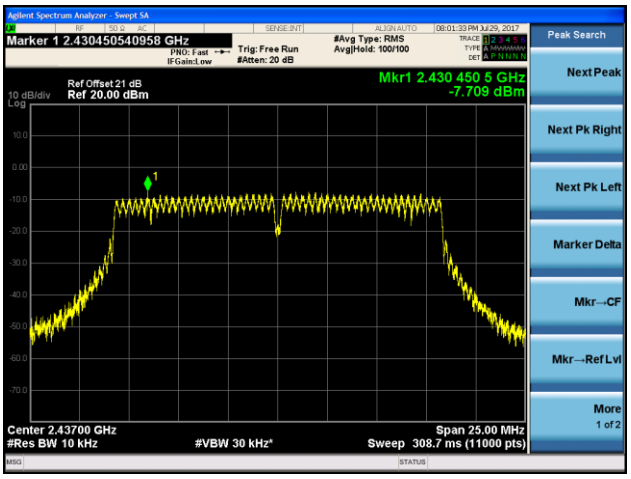
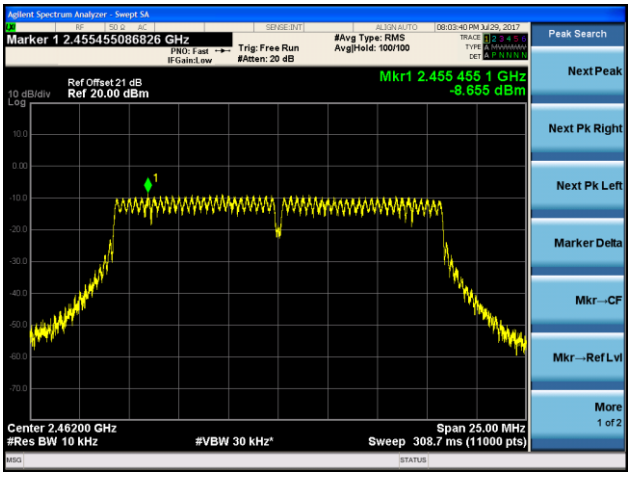
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Constant Factor	Final PSD (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
Ant 1									
802.11b	1Mbps	01	2412	-4.46	98.96	-5.23	-9.64	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-3.92	98.96	-5.23	-9.10	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-5.03	98.96	-5.23	-10.21	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-8.40	96.04	-5.23	-13.45	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-7.71	96.04	-5.23	-12.76	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-8.66	96.04	-5.23	-13.71	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-9.06	98.23	-5.23	-14.21	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-7.45	98.23	-5.23	-12.61	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-8.39	98.23	-5.23	-13.54	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-13.43	96.41	-5.23	-18.50	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-10.59	96.41	-5.23	-15.66	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-11.61	96.41	-5.23	-16.68	≤ 8.00	Pass
Ant 2									
802.11b	1Mbps	01	2412	-3.07	98.96	-5.23	-8.26	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-4.86	98.96	-5.23	-10.04	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-3.54	98.96	-5.23	-8.72	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-7.87	96.04	-5.23	-12.92	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-6.21	96.04	-5.23	-11.27	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-7.90	96.04	-5.23	-12.95	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-8.47	98.23	-5.23	-13.63	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-6.74	98.23	-5.23	-11.89	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-8.05	98.23	-5.23	-13.20	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-13.13	96.41	-5.23	-18.21	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-9.07	96.41	-5.23	-14.15	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-12.04	96.41	-5.23	-17.11	≤ 8.00	Pass

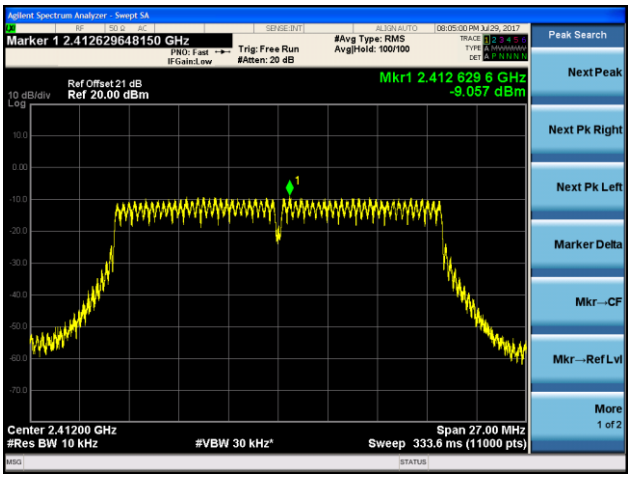
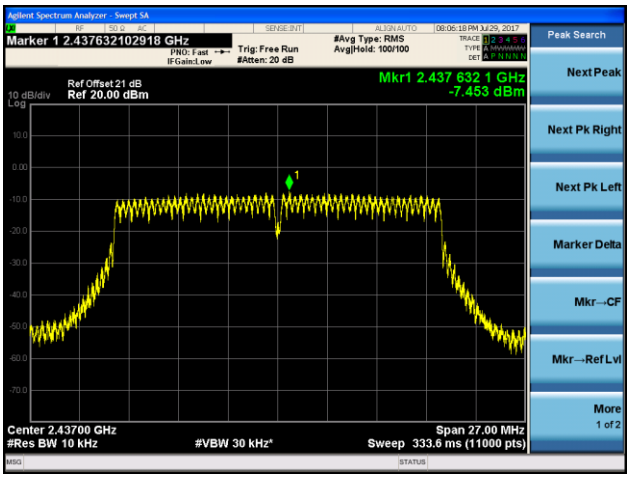
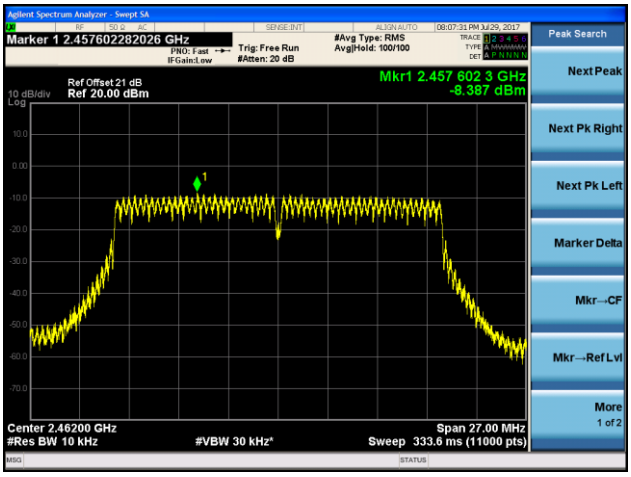
Note: The Final PSD = AVGPSD + 10*log(1/duty cycle) + Constant Factor.

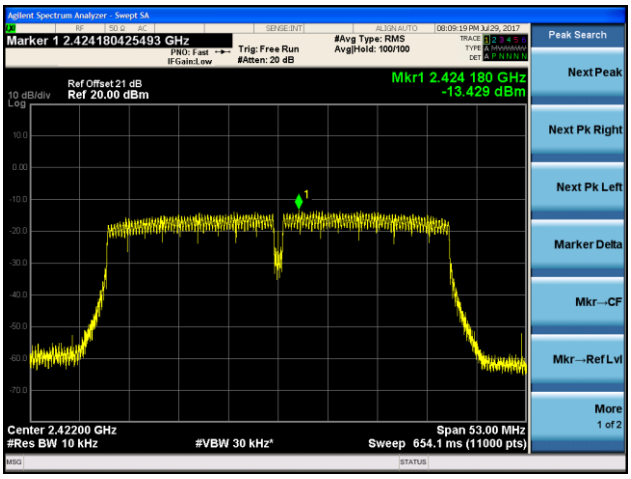
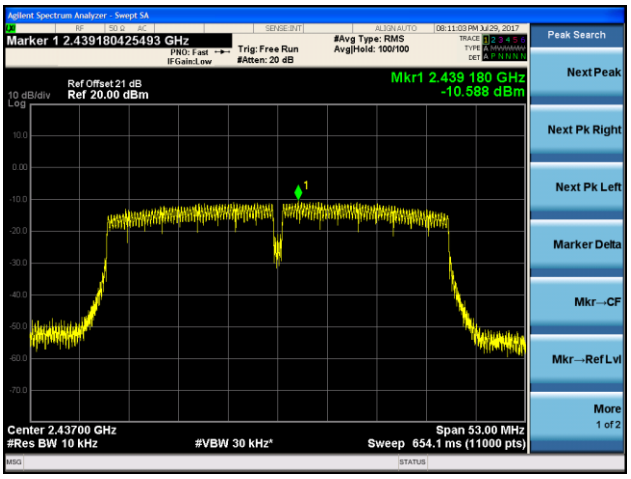
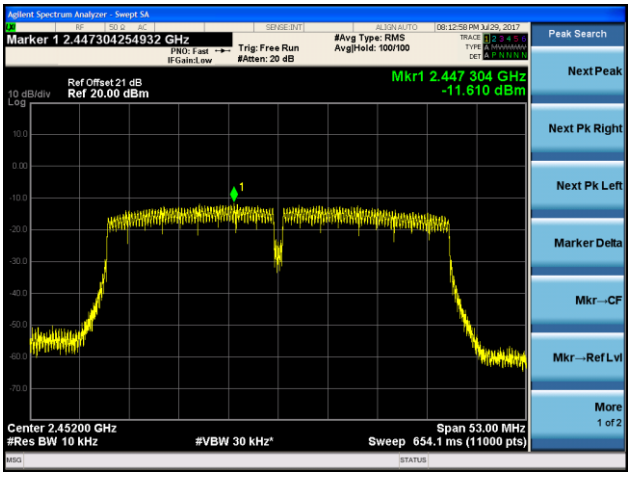
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 1 AVGPSD (dBm / 10kHz)	Ant 2 AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Constant Factor	Total AVGPSD (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
Ant 1 + 2 (CDD Mode)										
11b	1Mbps	1	2412	-4.58	-3.62	98.96	-5.23	-6.25	≤ 5.74	Pass
11b	1Mbps	6	2437	-5.53	-5.01	98.96	-5.23	-7.44	≤ 5.74	Pass
11b	1Mbps	11	2462	-3.53	-2.94	98.96	-5.23	-5.40	≤ 5.74	Pass
11g	6Mbps	1	2412	-10.18	-8.94	96.04	-5.23	-11.56	≤ 5.74	Pass
11g	6Mbps	6	2437	-8.00	-7.01	96.04	-5.23	-9.52	≤ 5.74	Pass
11g	6Mbps	11	2462	-9.97	-9.62	96.04	-5.23	-11.84	≤ 5.74	Pass
11n-HT20	MCS0	1	2412	-8.82	-7.53	98.23	-5.23	-10.27	≤ 5.74	Pass
11n-HT20	MCS0	6	2437	-7.43	-6.56	98.23	-5.23	-9.12	≤ 5.74	Pass
11n-HT20	MCS0	11	2462	-11.14	-10.47	98.23	-5.23	-12.93	≤ 5.74	Pass
11n-HT40	MCS0	3	2422	-16.83	-15.14	96.41	-5.23	-17.96	≤ 5.74	Pass
11n-HT40	MCS0	6	2437	-10.54	-9.53	96.41	-5.23	-12.06	≤ 5.74	Pass
11n-HT40	MCS0	9	2452	-12.45	-11.76	96.41	-5.23	-14.15	≤ 5.74	Pass
Ant 1 + 2 (Beam-Forming Mode)										
11n-HT20	MCS0	1	2412	-8.85	-7.52	98.23	-5.23	-10.28	≤ 5.74	Pass
11n-HT20	MCS0	6	2437	-7.38	-6.31	98.23	-5.23	-8.95	≤ 5.74	Pass
11n-HT20	MCS0	11	2462	-7.80	-7.60	98.23	-5.23	-9.84	≤ 5.74	Pass
11n-HT40	MCS0	3	2422	-11.04	-10.16	96.41	-5.23	-12.64	≤ 5.74	Pass
11n-HT40	MCS0	6	2437	-10.53	-9.05	96.41	-5.23	-11.79	≤ 5.74	Pass
11n-HT40	MCS0	9	2452	-11.16	-10.44	96.41	-5.23	-12.85	≤ 5.74	Pass

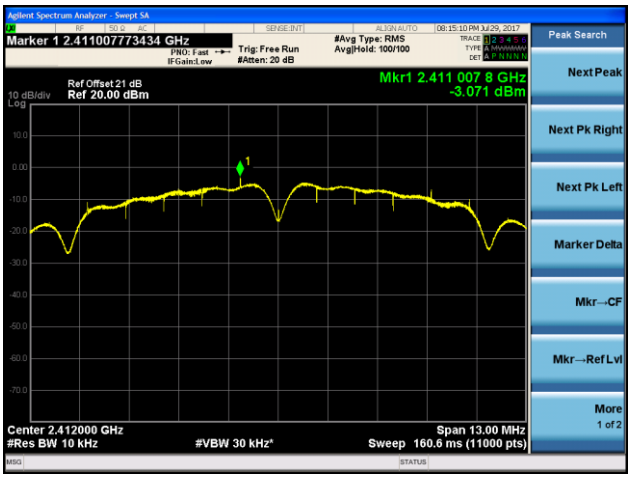
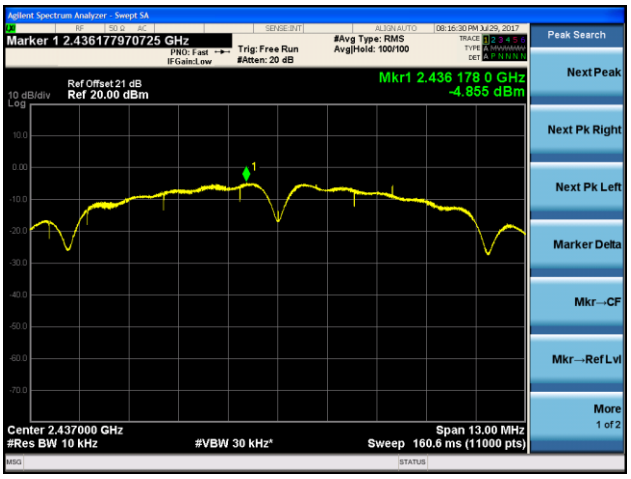
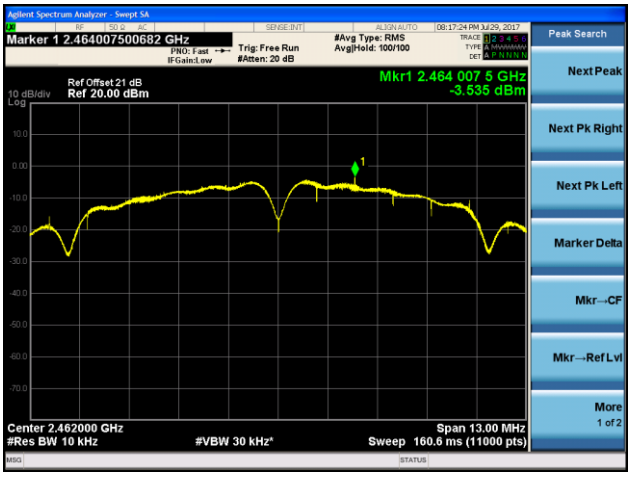
Note: The total AVGPSD = $10*\log\{10^{(\text{Ant 1 AVGPSD}/10)}+10^{(\text{Ant 2 AVGPSD}/10)}\}$ + 10*log(1/duty cycle) + Constant Factor.

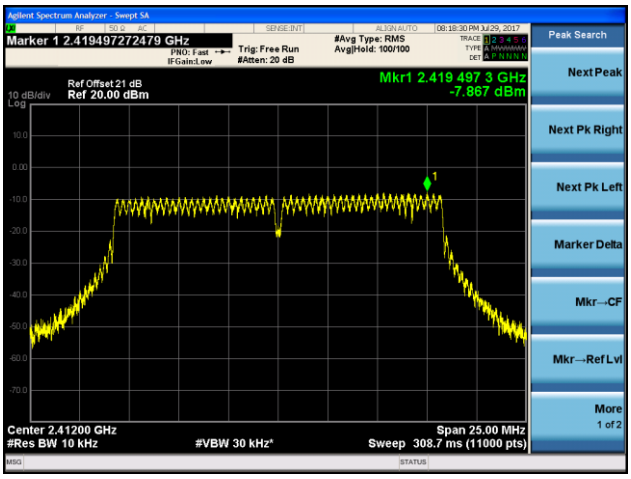
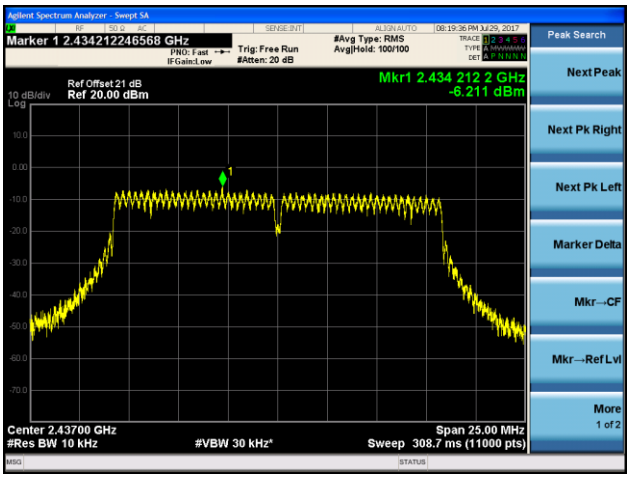
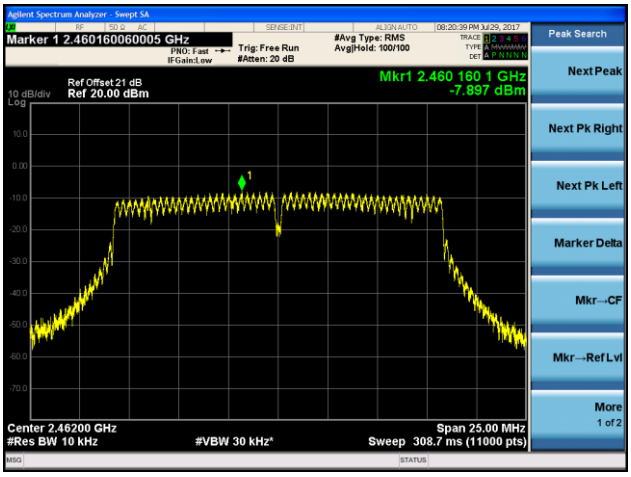
802.11b AVGPSD - Ant 1	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

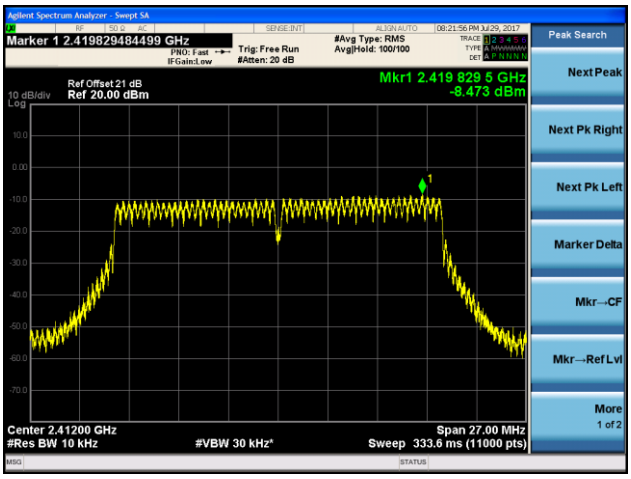
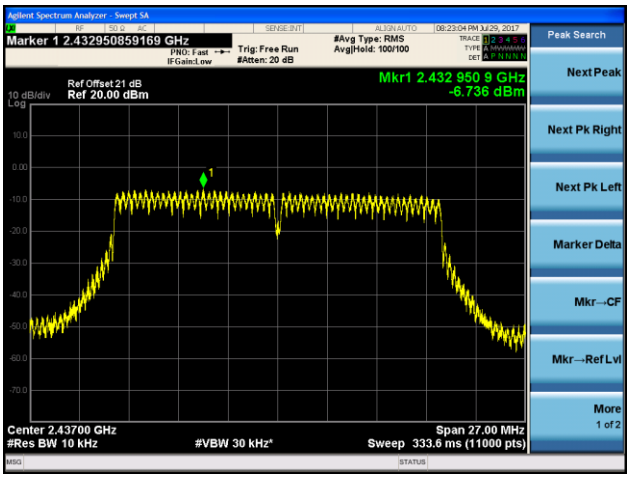
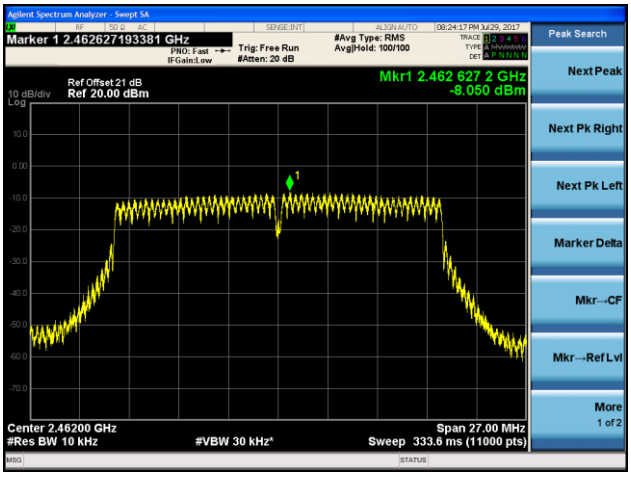
802.11g AVGPSD - Ant 1	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

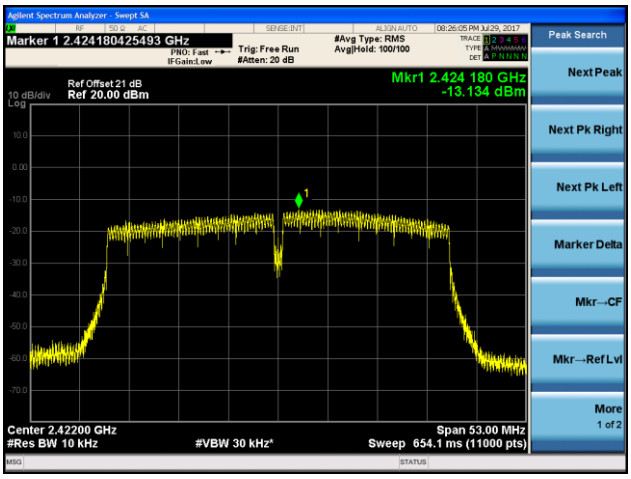
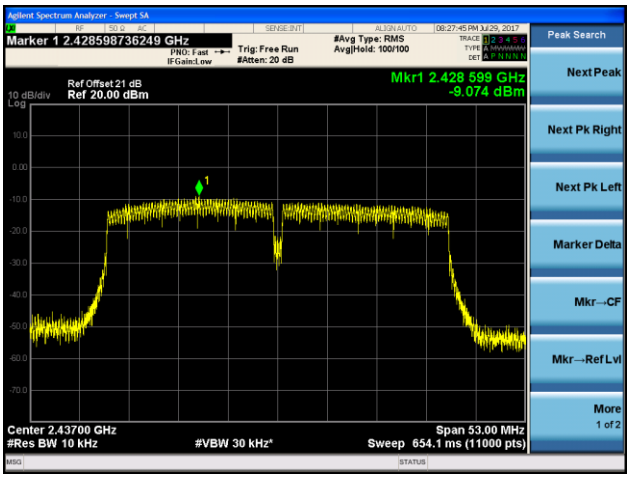
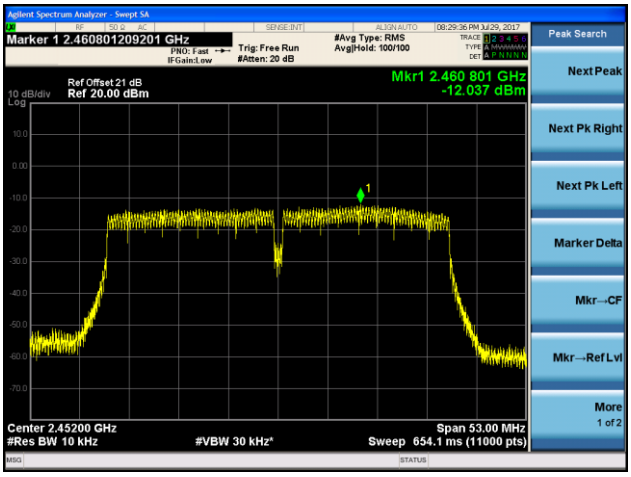
802.11n-HT20 AVGPSD - Ant 1	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

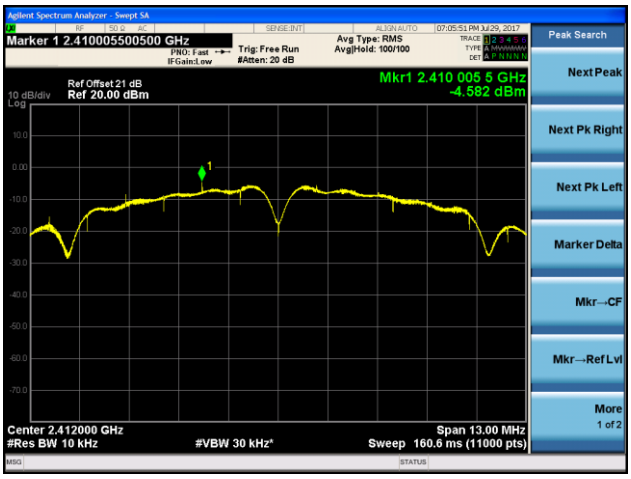
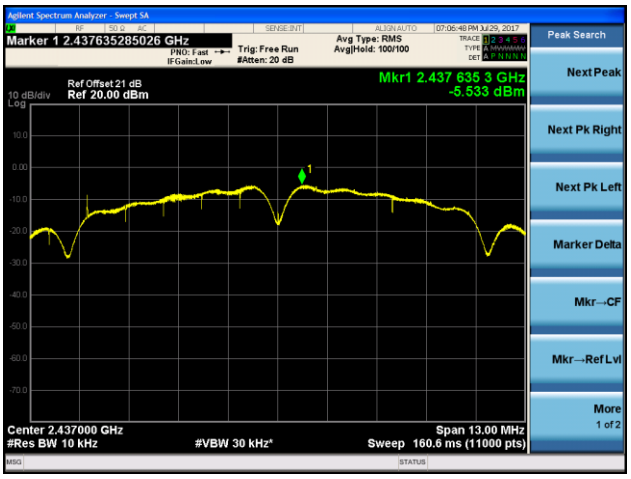
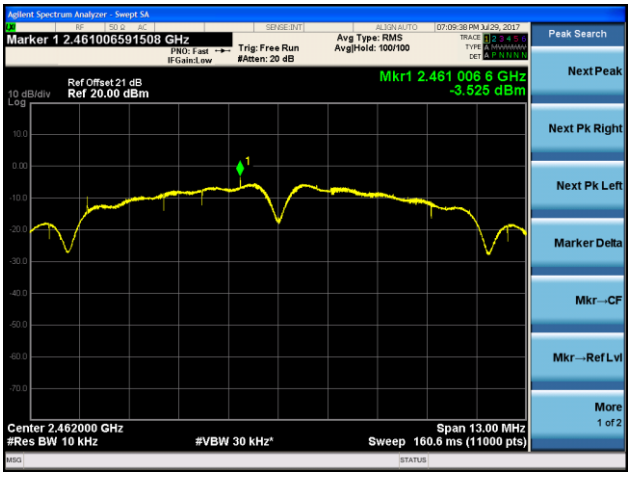
802.11n-HT40 AVGPSD - Ant 1	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

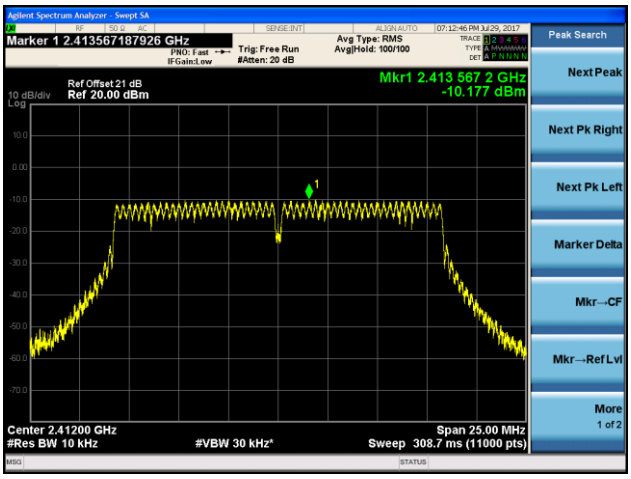
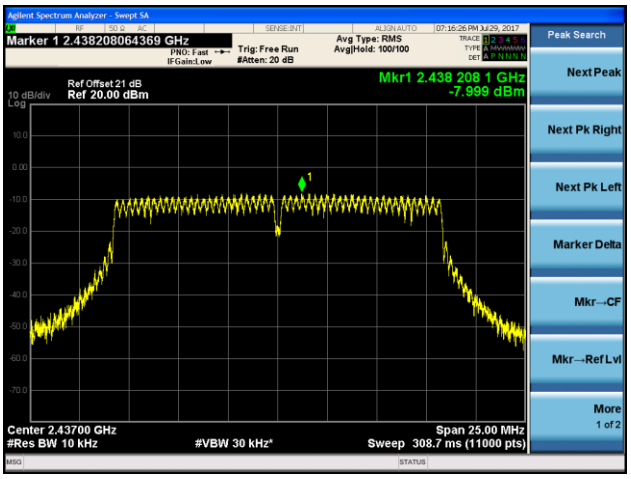
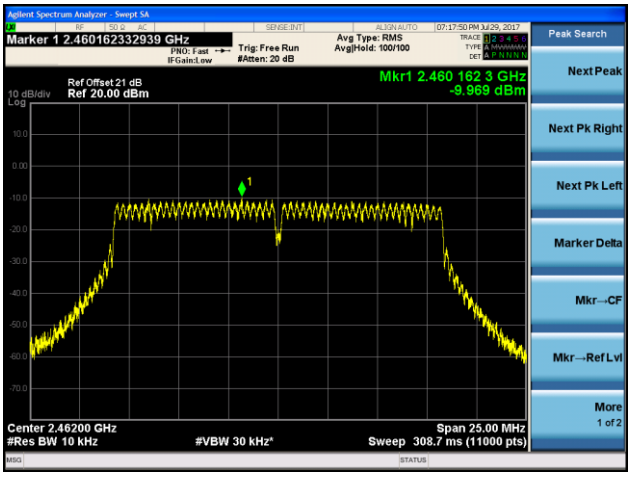
802.11b AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

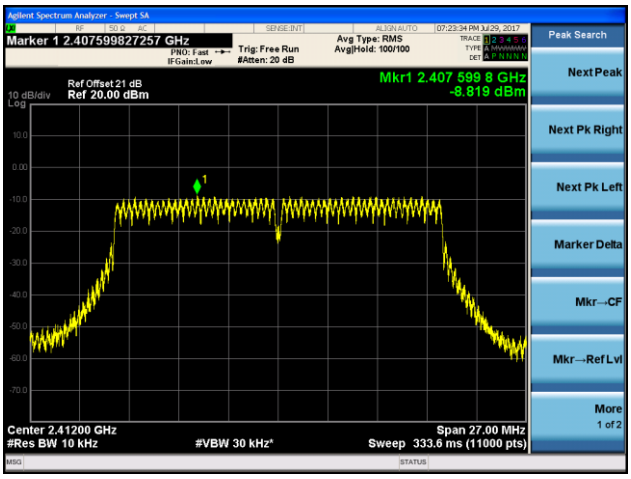
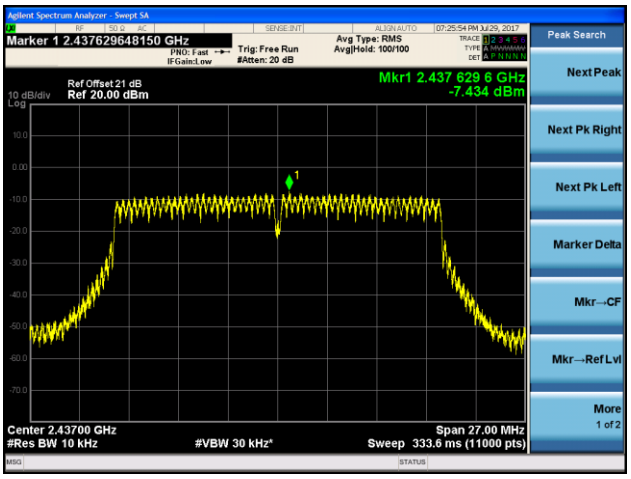
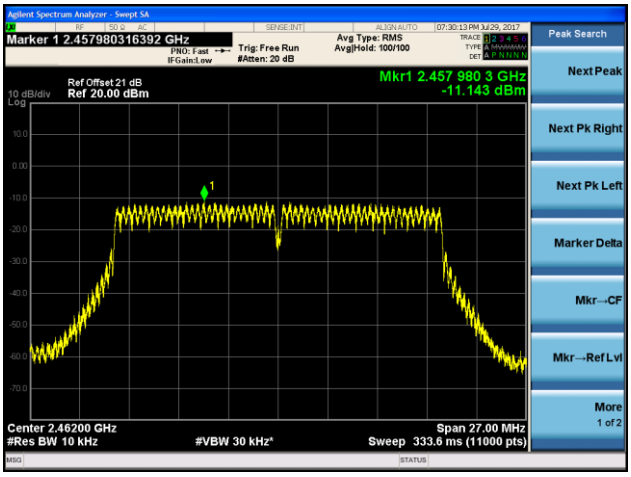
802.11g AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

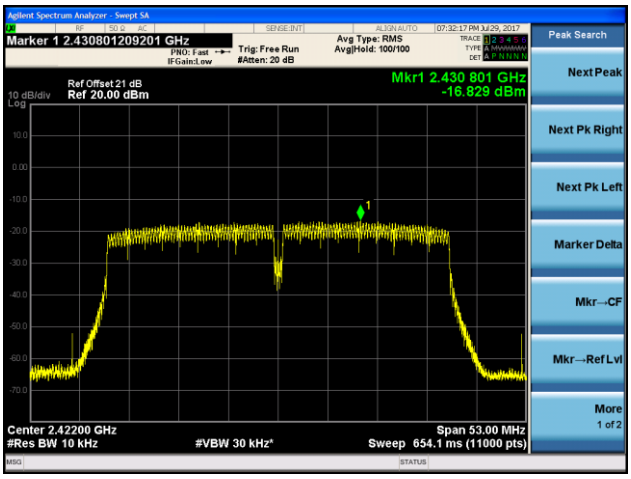
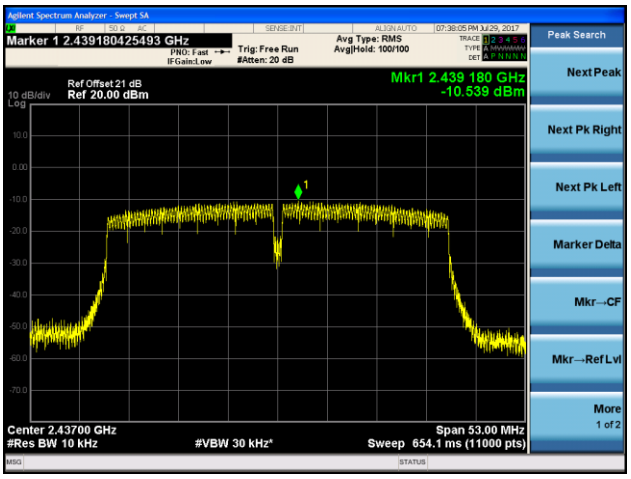
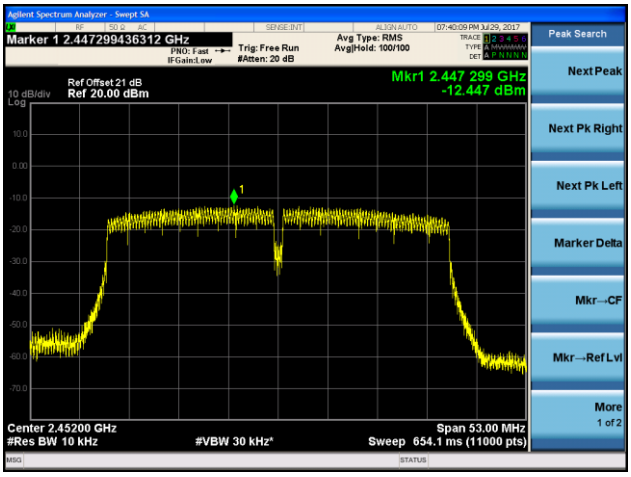
802.11n-HT20 AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

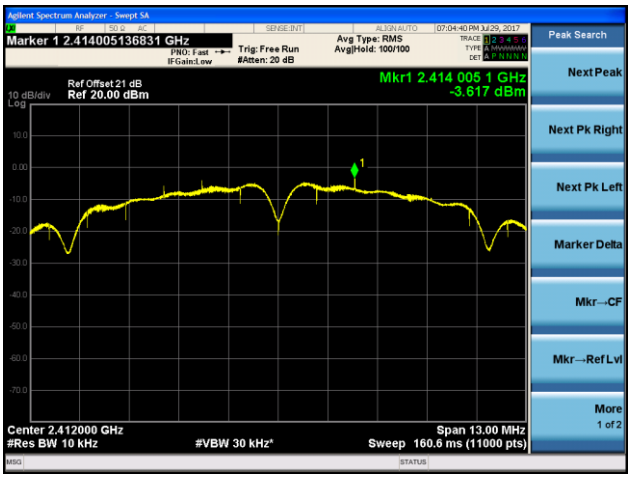
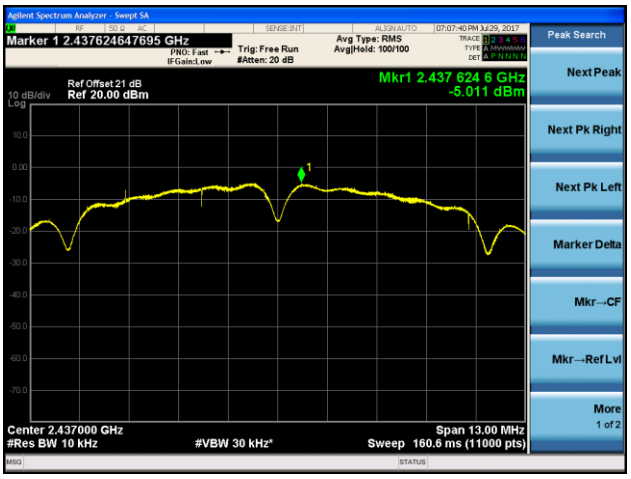
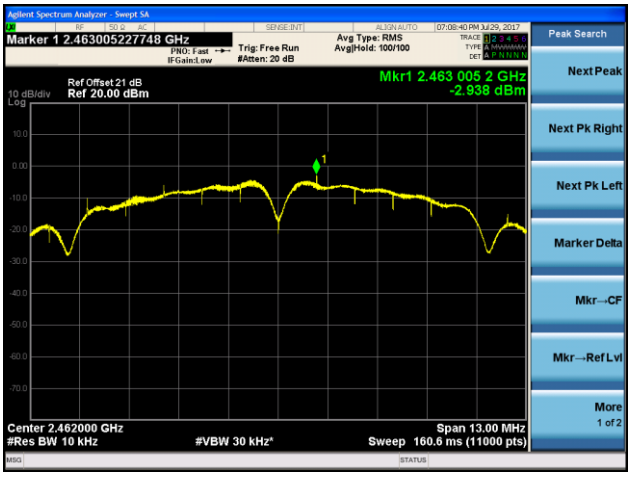
802.11n-HT40 AVGPSD - Ant 2	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

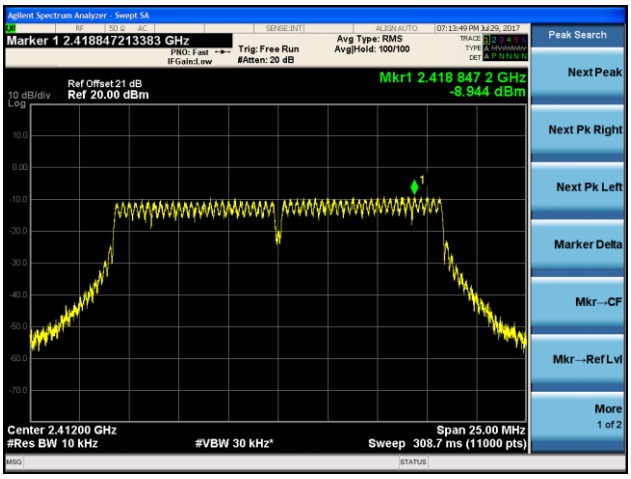
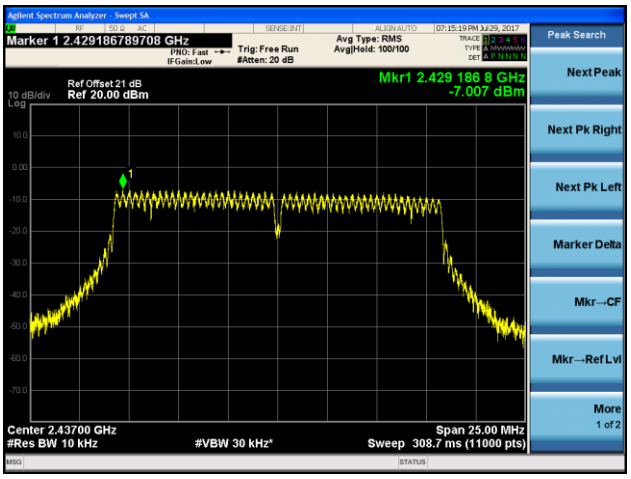
802.11b AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11g AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT20 AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

802.11b AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11g AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)