26dB Bandwidth Measurement Test Result

Product	US WI-FI AP 4X4 OD ext. antenna	Temperature	25°C
Test Engineer	Johnson Liao	Relative Humidity	50 ~ 58%
Test Site	SR2	Test Date	2016/09/14
Test Item	26dB Bandwidth	Antenna Model No.	FPMI2458-DP2RPSMA

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 0					
802.11a	6	36	5180	20.09	16.43
802.11a	6	44	5220	20.20	16.43
802.11a	6	48	5240	20.15	16.44
802.11a	6	149	5745	21.83	16.56
802.11a	6	157	5785	22.49	16.61
802.11a	6	165	5825	23.70	16.69
802.11n-HT20	6.5	36	5180	20.09	17.61
802.11n-HT20	6.5	44	5220	20.28	17.62
802.11n-HT20	6.5	48	5240	21.01	17.63
802.11n-HT20	6.5	149	5745	21.79	17.67
802.11n-HT20	6.5	157	5785	21.59	17.68
802.11n-HT20	6.5	165	5825	22.40	17.72
802.11n-HT40	13.5	38	5190	40.04	35.95
802.11n-HT40	13.5	46	5230	39.97	35.96
802.11n-HT40	13.5	151	5755	41.42	36.10
802.11n-HT40	13.5	159	5795	59.93	36.29
802.11ac-VHT20	6.5	36	5180	20.24	17.61
802.11ac-VHT20	6.5	44	5220	20.65	17.62
802.11ac-VHT20	6.5	48	5240	21.10	17.63
802.11ac-VHT20	6.5	149	5745	21.62	17.68
802.11ac-VHT20	6.5	157	5785	21.92	17.70
802.11ac-VHT20	6.5	165	5825	22.96	17.74
802.11ac-VHT40	13.5	38	5190	39.87	35.94
802.11ac-VHT40	13.5	46	5230	39.98	35.94
802.11ac-VHT40	13.5	151	5755	40.75	36.11
802.11ac-VHT40	13.5	159	5795	52.68	36.22

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 0					
802.11ac-VHT80	29.3	42	5210	84.66	75.92
802.11ac-VHT80	29.3	155	5775	85.19	75.88

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 1					
802.11a	6	36	5180	20.37	16.46
802.11a	6	44	5220	20.26	16.47
802.11a	6	48	5240	20.34	16.46
802.11a	6	149	5745	22.77	16.59
802.11a	6	157	5785	22.15	16.53
802.11a	6	165	5825	21.58	16.53
802.11n-HT20	6.5	36	5180	20.91	17.62
802.11n-HT20	6.5	44	5220	20.82	17.63
802.11n-HT20	6.5	48	5240	20.32	17.64
802.11n-HT20	6.5	149	5745	21.09	17.68
802.11n-HT20	6.5	157	5785	21.66	17.67
802.11n-HT20	6.5	165	5825	21.07	17.68
802.11n-HT40	13.5	38	5190	39.87	35.95
802.11n-HT40	13.5	46	5230	39.62	35.96
802.11n-HT40	13.5	151	5755	40.10	36.08
802.11n-HT40	13.5	159	5795	40.38	36.05
802.11ac-VHT20	6.5	36	5180	20.91	17.65
802.11ac-VHT20	6.5	44	5220	20.86	17.65
802.11ac-VHT20	6.5	48	5240	21.08	17.64
802.11ac-VHT20	6.5	149	5745	21.72	17.70
802.11ac-VHT20	6.5	157	5785	21.61	17.68
802.11ac-VHT20	6.5	165	5825	20.96	17.67
802.11ac-VHT40	13.5	38	5190	40.01	35.97
802.11ac-VHT40	13.5	46	5230	40.08	35.97
802.11ac-VHT40	13.5	151	5755	40.56	36.09
802.11ac-VHT40	13.5	159	5795	40.59	36.09
802.11ac-VHT80	29.3	42	5210	84.88	75.91
802.11ac-VHT80	29.3	155	5775	84.10	75.82

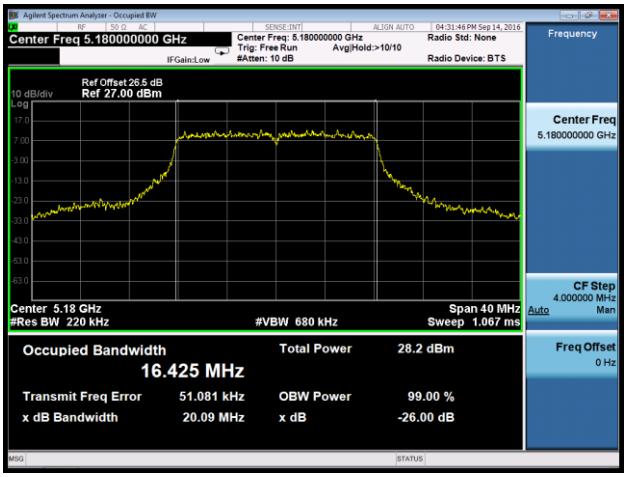
Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 2					
802.11a	6	36	5180	20.33	16.46
802.11a	6	44	5220	20.27	16.48
802.11a	6	48	5240	20.40	16.49
802.11a	6	149	5745	21.98	16.55
802.11a	6	157	5785	21.92	16.66
802.11a	6	165	5825	22.08	16.53
802.11n-HT20	6.5	36	5180	20.90	17.61
802.11n-HT20	6.5	44	5220	20.99	17.63
802.11n-HT20	6.5	48	5240	20.82	17.64
802.11n-HT20	6.5	149	5745	21.97	17.69
802.11n-HT20	6.5	157	5785	21.67	17.67
802.11n-HT20	6.5	165	5825	21.73	17.68
802.11n-HT40	13.5	38	5190	40.16	35.93
802.11n-HT40	13.5	46	5230	39.95	35.97
802.11n-HT40	13.5	151	5755	46.64	36.12
802.11n-HT40	13.5	159	5795	46.46	36.14
802.11ac-VHT20	6.5	36	5180	21.00	17.60
802.11ac-VHT20	6.5	44	5220	20.66	17.63
802.11ac-VHT20	6.5	48	5240	20.94	17.63
802.11ac-VHT20	6.5	149	5745	22.03	17.68
802.11ac-VHT20	6.5	157	5785	21.46	17.70
802.11ac-VHT20	6.5	165	5825	21.98	17.67
802.11ac-VHT40	13.5	38	5190	40.03	35.98
802.11ac-VHT40	13.5	46	5230	39.93	35.96
802.11ac-VHT40	13.5	151	5755	44.02	36.06
802.11ac-VHT40	13.5	159	5795	44.14	36.14
802.11ac-VHT80	29.3	42	5210	83.98	75.89
802.11ac-VHT80	29.3	155	5775	83.52	75.97

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 3					
802.11a	6	36	5180	20.13	16.44
802.11a	6	44	5220	20.12	16.46
802.11a	6	48	5240	20.24	16.49
802.11a	6	149	5745	20.23	16.50
802.11a	6	157	5785	20.31	16.46
802.11a	6	165	5825	20.19	16.48
802.11n-HT20	6.5	36	5180	20.28	17.61
802.11n-HT20	6.5	44	5220	20.80	17.62
802.11n-HT20	6.5	48	5240	20.25	17.64
802.11n-HT20	6.5	149	5745	20.78	17.64
802.11n-HT20	6.5	157	5785	20.79	17.64
802.11n-HT20	6.5	165	5825	20.81	17.64
802.11n-HT40	13.5	38	5190	40.03	35.96
802.11n-HT40	13.5	46	5230	39.88	35.95
802.11n-HT40	13.5	151	5755	40.06	36.03
802.11n-HT40	13.5	159	5795	40.06	35.97
802.11ac-VHT20	6.5	36	5180	20.35	17.62
802.11ac-VHT20	6.5	44	5220	20.18	17.62
802.11ac-VHT20	6.5	48	5240	20.65	17.62
802.11ac-VHT20	6.5	149	5745	21.01	17.63
802.11ac-VHT20	6.5	157	5785	21.00	17.64
802.11ac-VHT20	6.5	165	5825	20.51	17.63
802.11ac-VHT40	13.5	38	5190	40.07	35.98
802.11ac-VHT40	13.5	46	5230	39.47	35.98
802.11ac-VHT40	13.5	151	5755	40.22	35.97
802.11ac-VHT40	13.5	159	5795	40.22	35.99
802.11ac-VHT80	29.3	42	5210	84.61	75.84
802.11ac-VHT80	29.3	155	5775	84.42	75.86

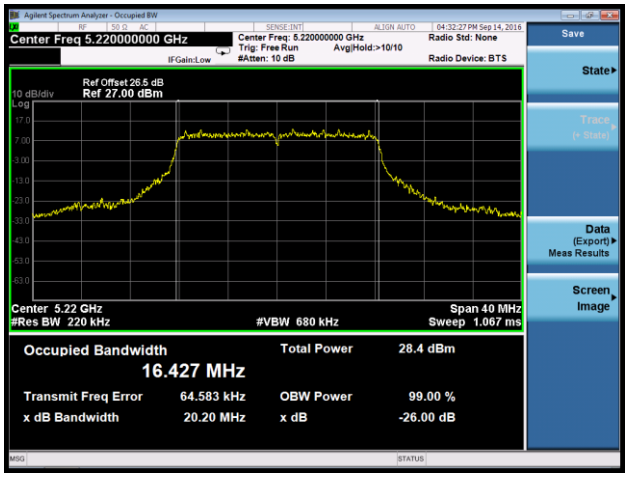
Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
Ant 0+1+2+3					
802.11ac-VHT 80+80	117.2	42	5210	86.24	76.08
		155	5775	87.86	79.21

802.11a 26dB Bandwidth & 99% Bandwidth - Ant 0

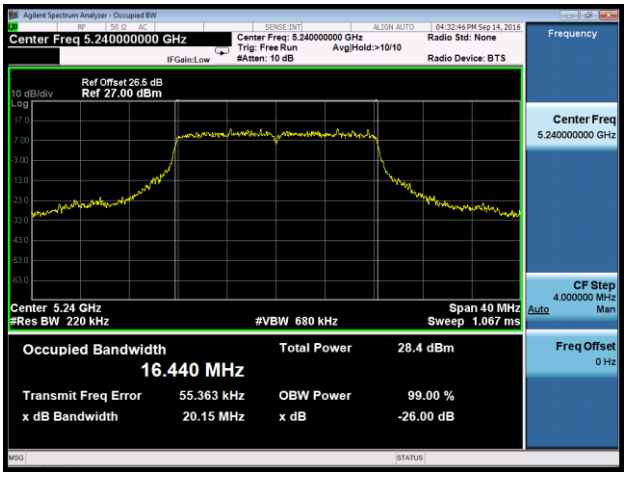
Channel 36 (5180MHz)



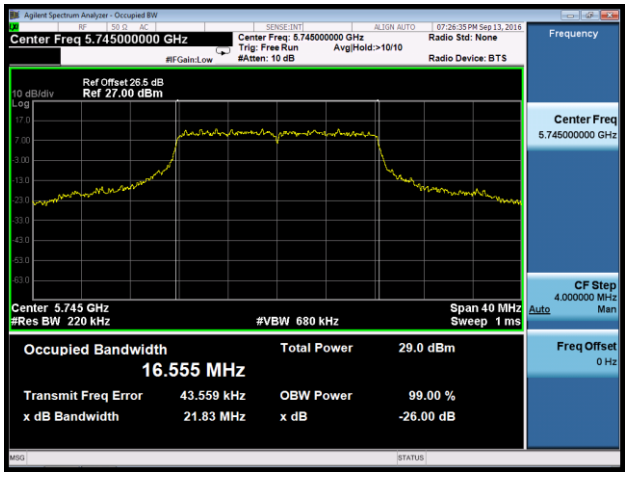
Channel 44 (5220MHz)



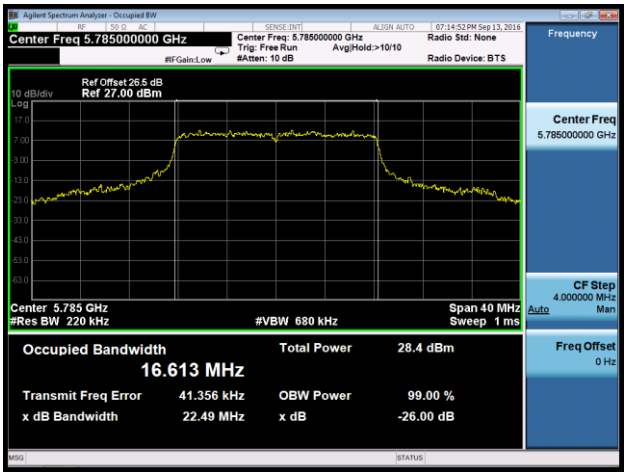
Channel 48 (5240MHz)



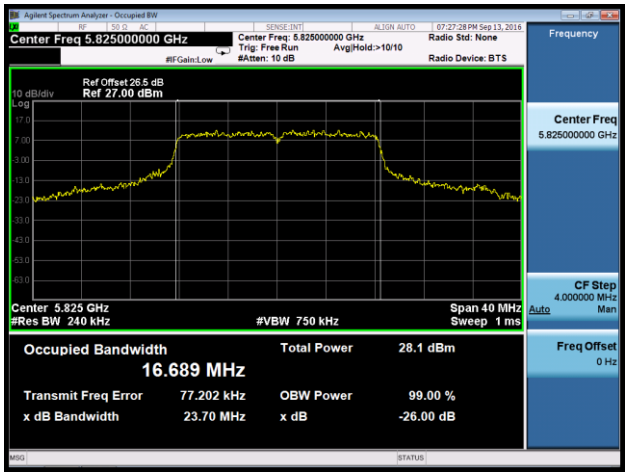
Channel 149 (5745MHz)



Channel 157 (5785MHz)

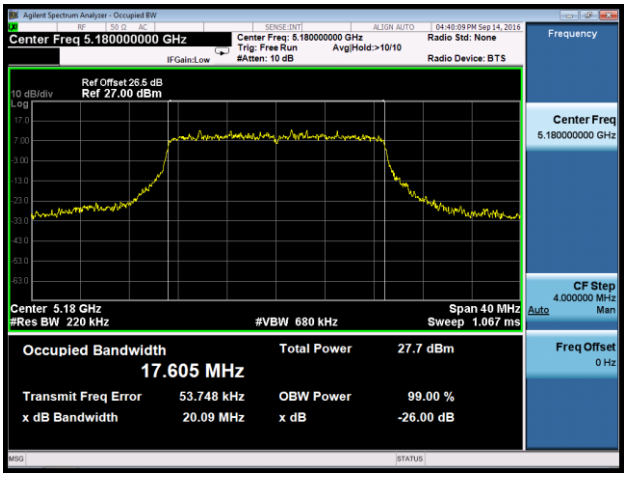


Channel 165 (5825MHz)

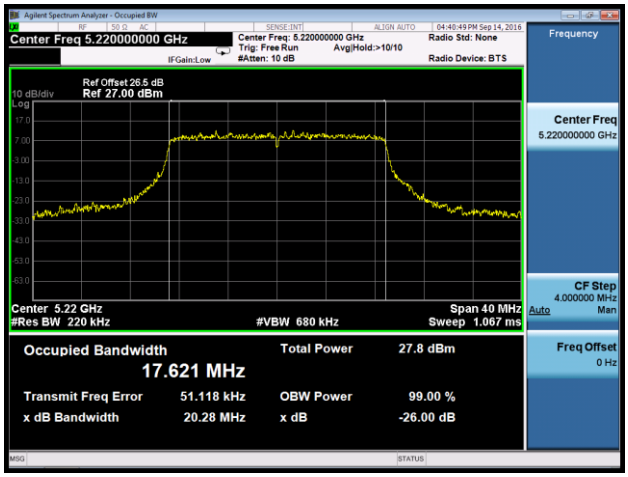


802.11n-HT20 26dB Bandwidth & 99% Bandwidth - Ant 0

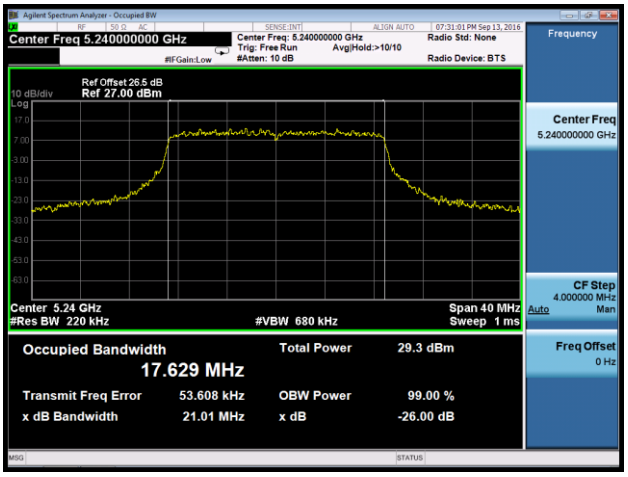
Channel 36 (5180MHz)



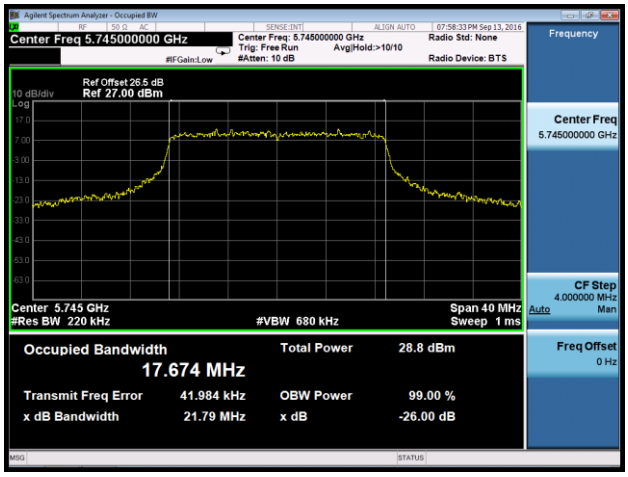
Channel 44 (5220MHz)



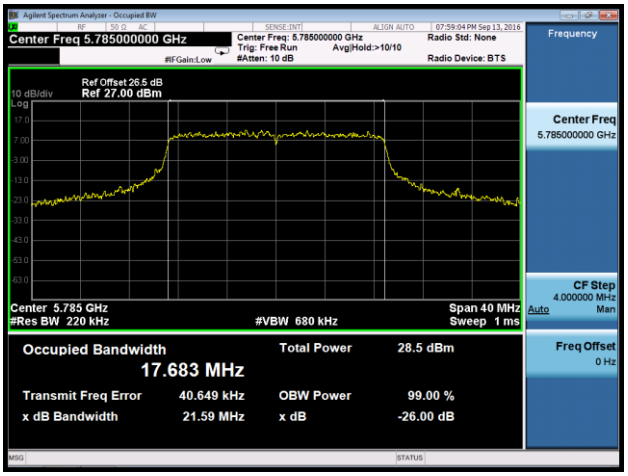
Channel 48 (5240MHz)



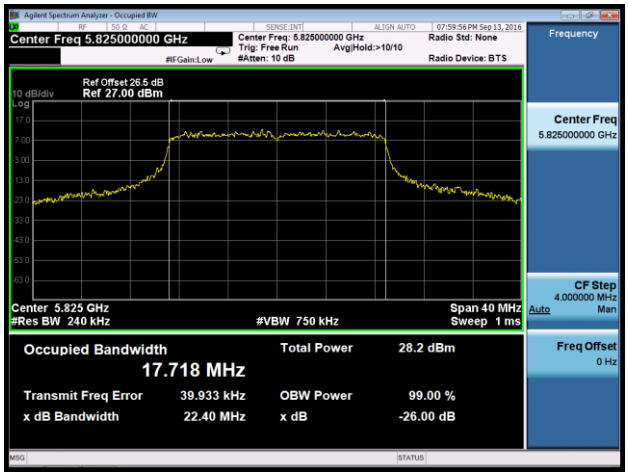
Channel 149 (5745MHz)



Channel 157 (5785MHz)

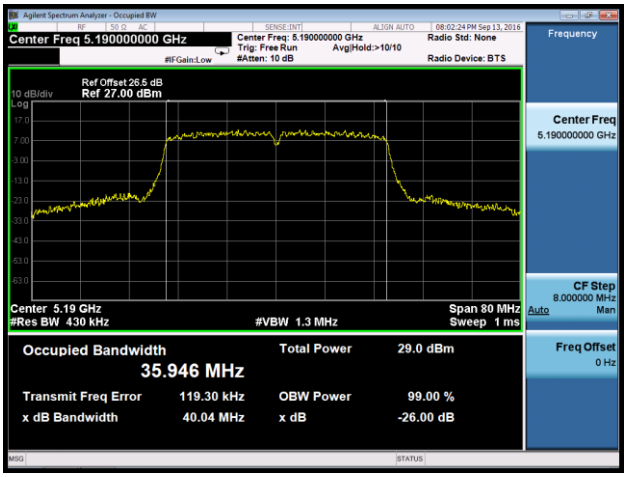


Channel 165 (5825MHz)

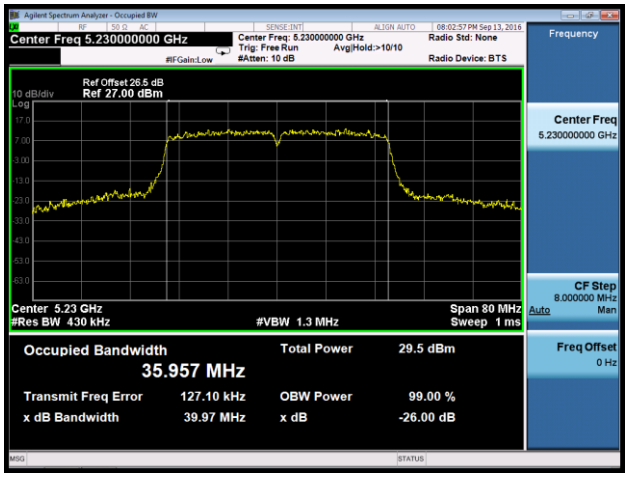


802.11n-HT40 26dB Bandwidth & 99% Bandwidth - Ant 0

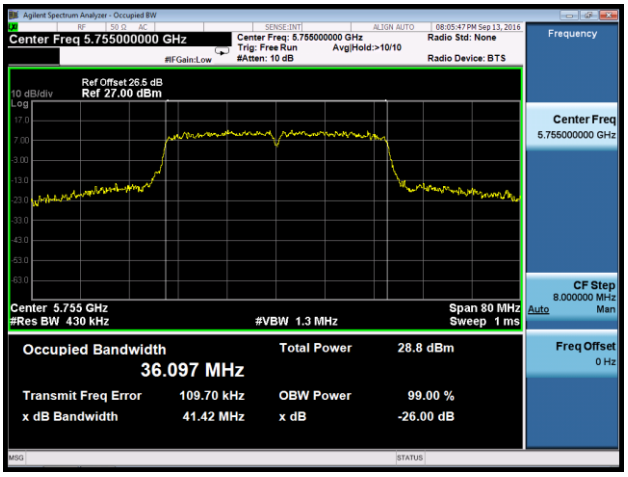
Channel 38 (5190MHz)



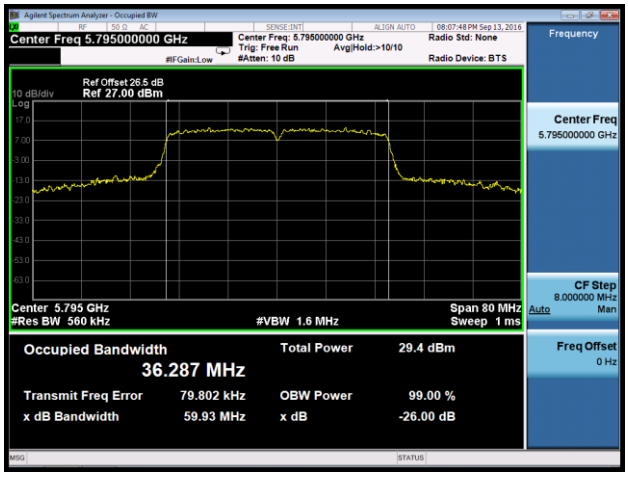
Channel 46 (5230MHz)



Channel 151 (5755MHz)

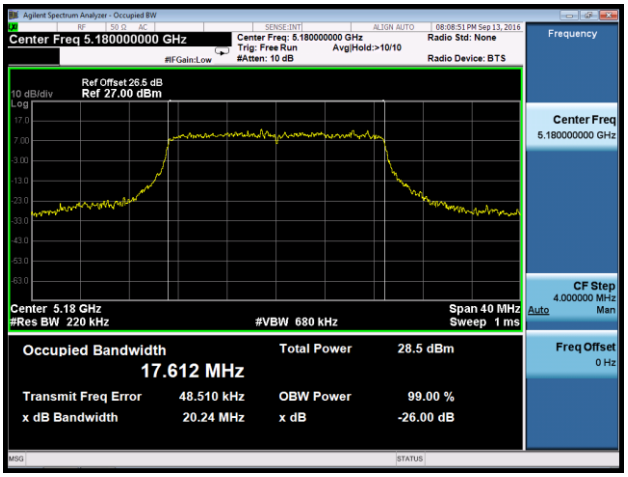


Channel 159 (5795MHz)

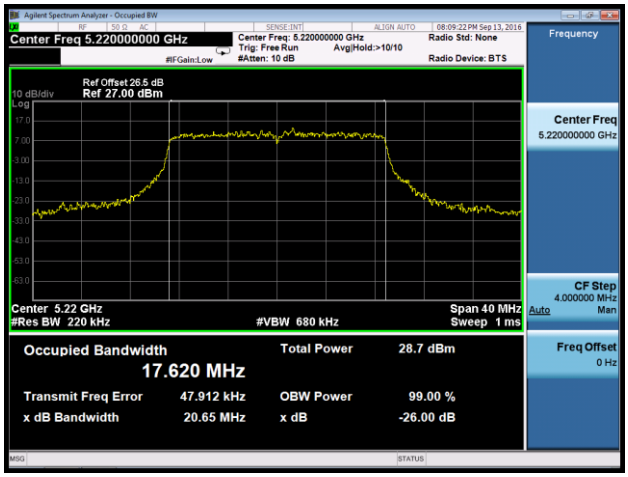


802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 0

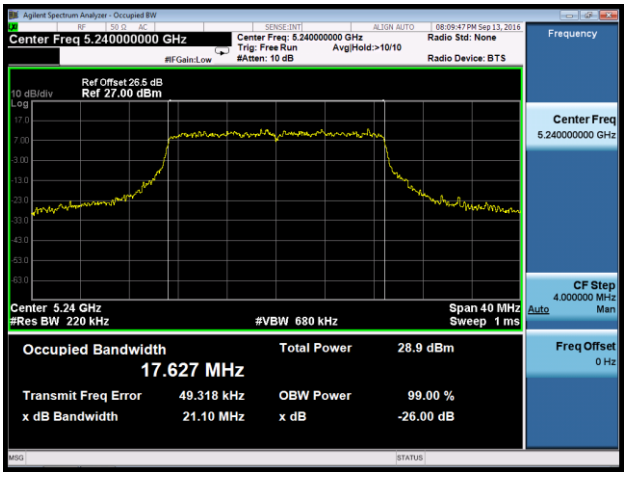
Channel 36 (5180MHz)



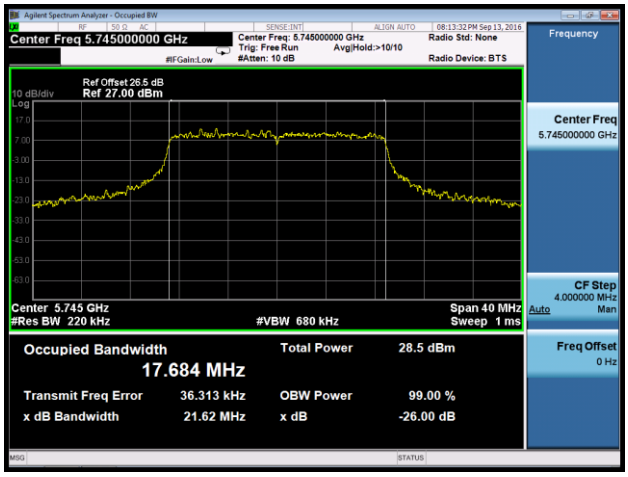
Channel 44 (5220MHz)



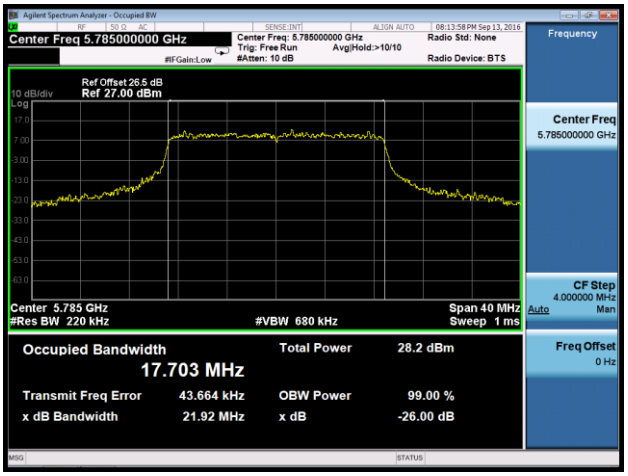
Channel 48 (5240MHz)



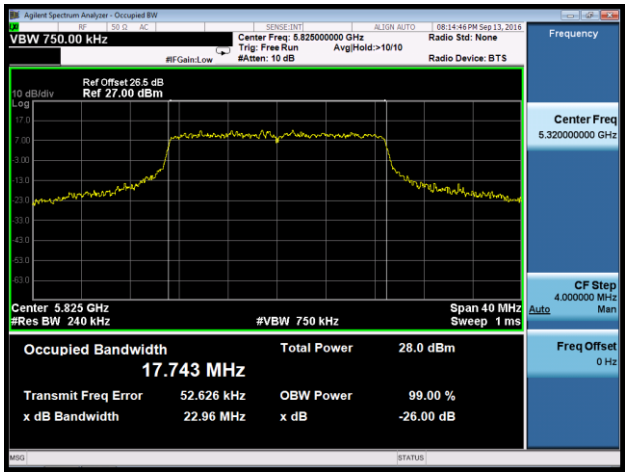
Channel 149 (5745MHz)



Channel 157 (5785MHz)

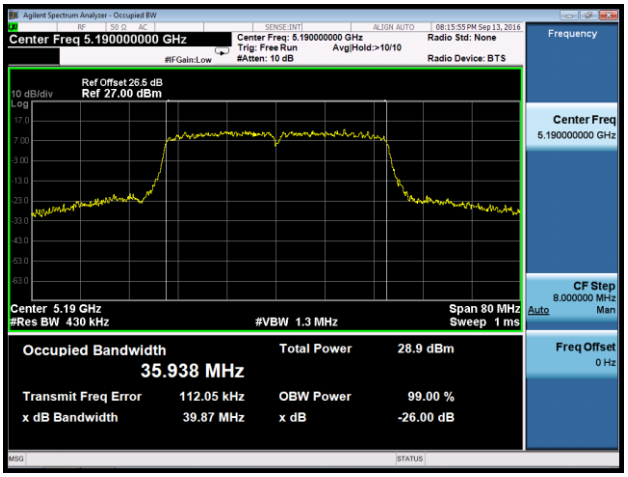


Channel 165 (5825MHz)

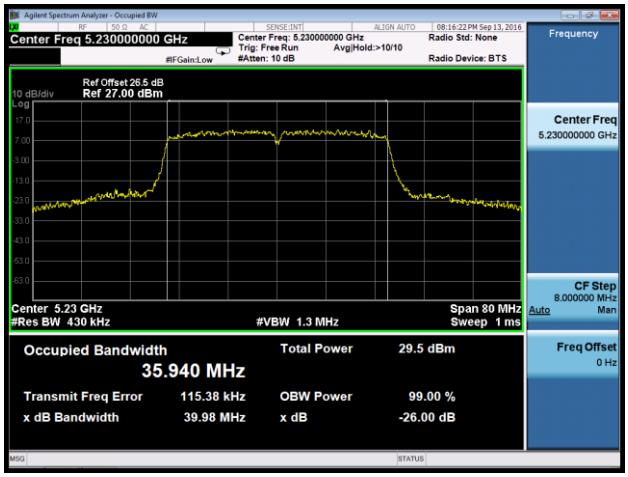


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 0

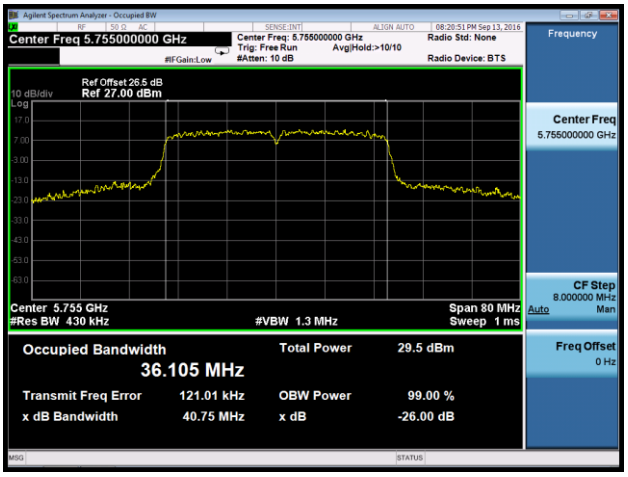
Channel 38 (5190MHz)



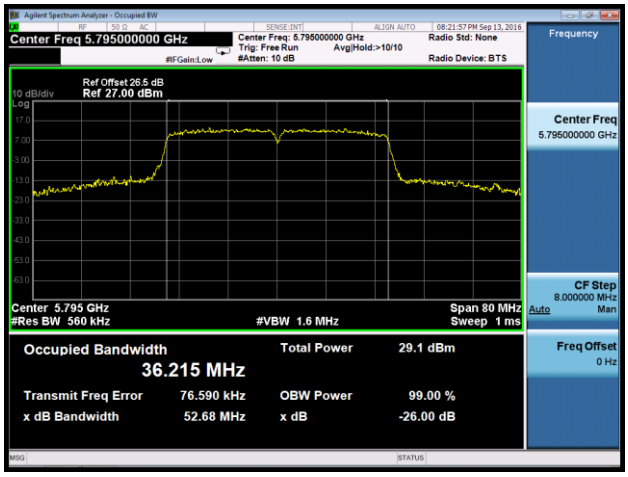
Channel 46 (5230MHz)

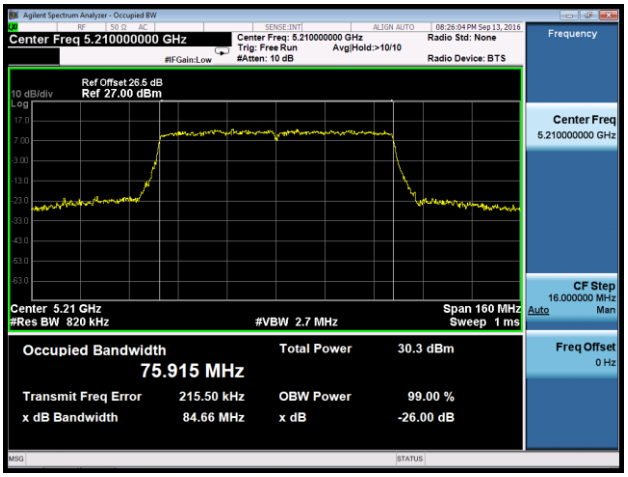
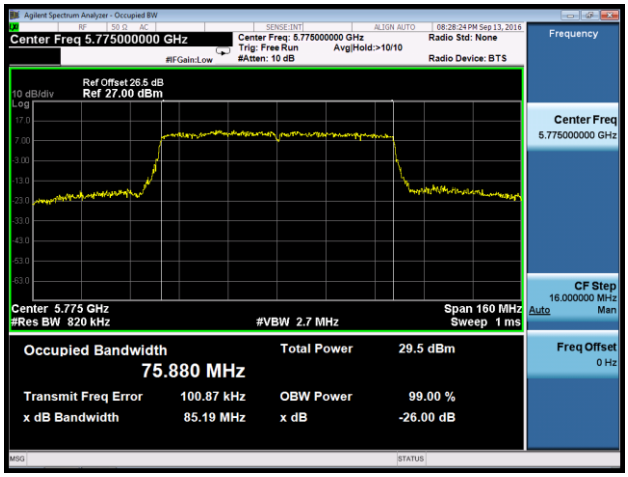


Channel 151 (5755MHz)



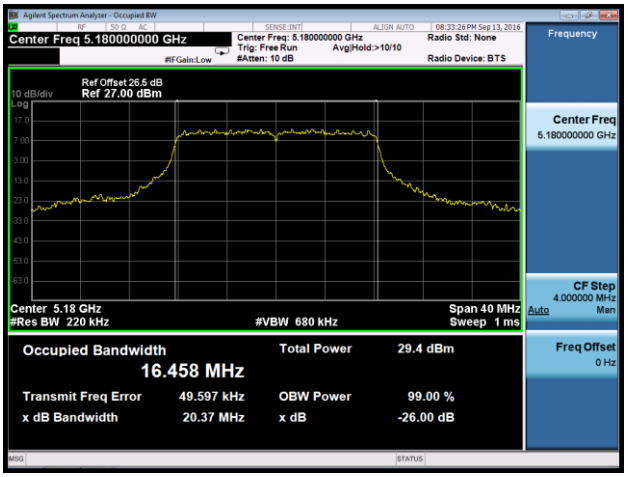
Channel 159 (5795MHz)



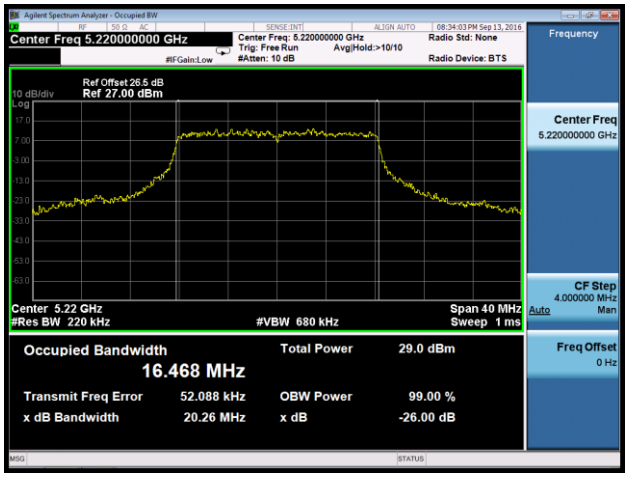
802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 0	
Channel 42 (5210MHz)	**Channel 155 (5755MHz)**
	

802.11a 26dB Bandwidth & 99% Bandwidth - Ant 1

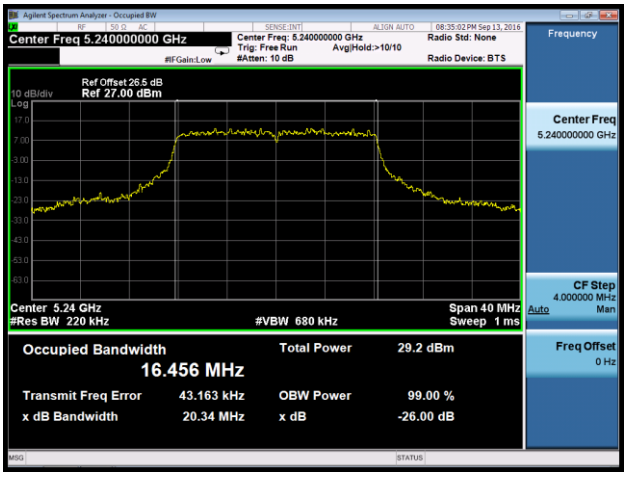
Channel 36 (5180MHz)



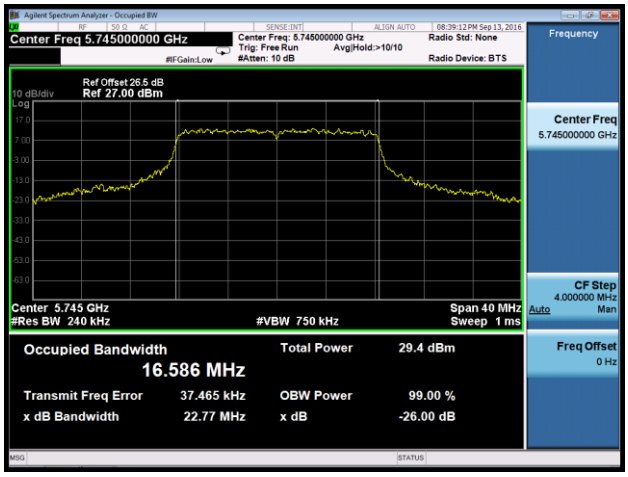
Channel 44 (5220MHz)



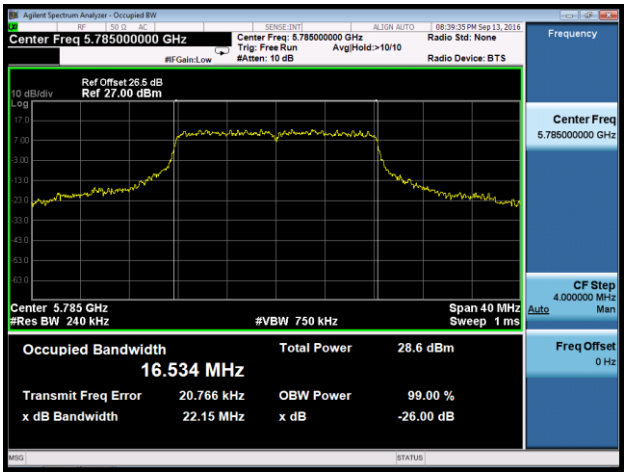
Channel 48 (5240MHz)



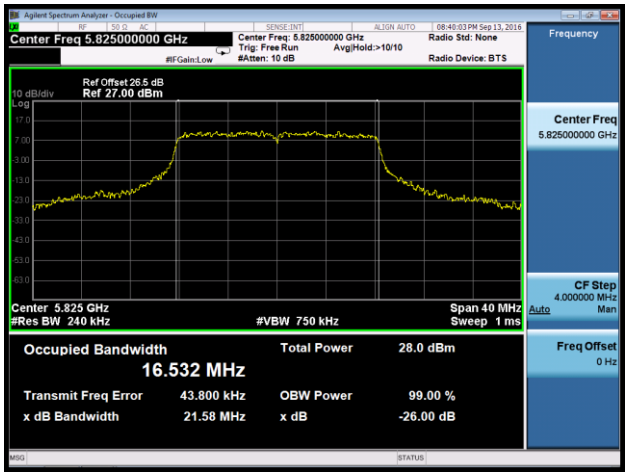
Channel 149 (5745MHz)



Channel 157 (5785MHz)

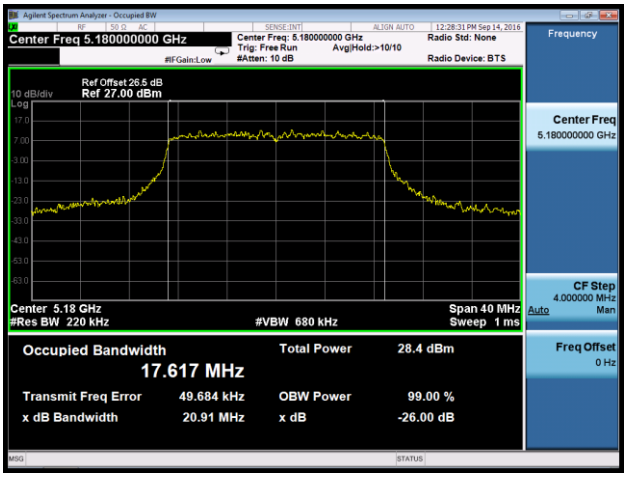


Channel 165 (5825MHz)

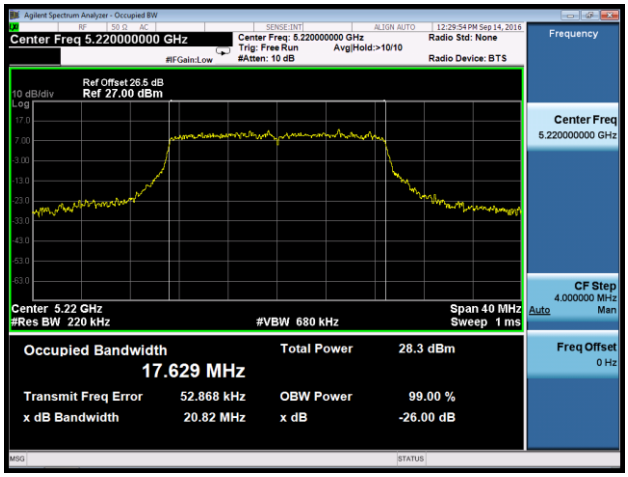


802.11n-HT20 26dB Bandwidth & 99% Bandwidth - Ant 1

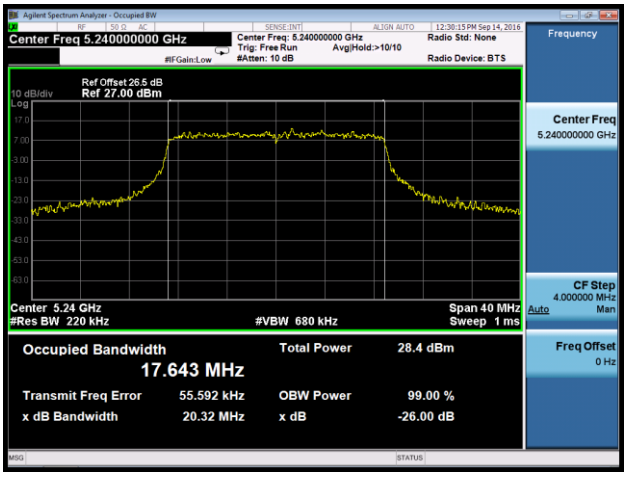
Channel 36 (5180MHz)



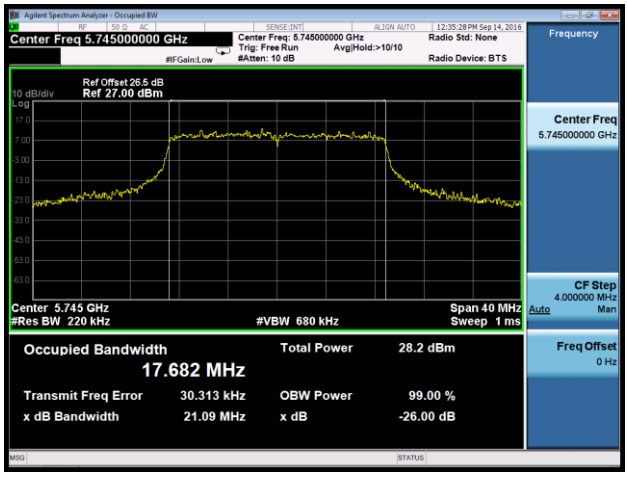
Channel 44 (5220MHz)



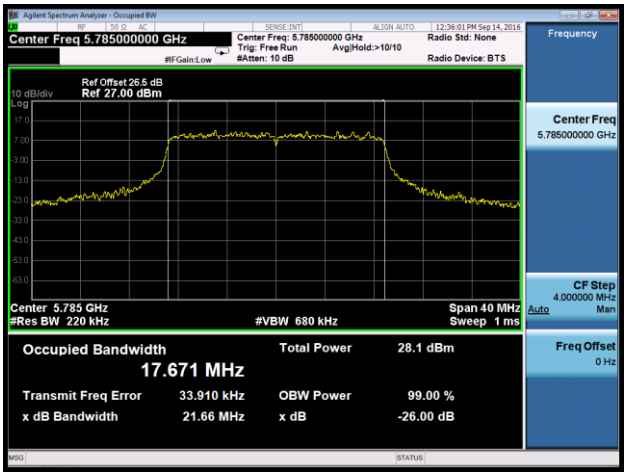
Channel 48 (5240MHz)



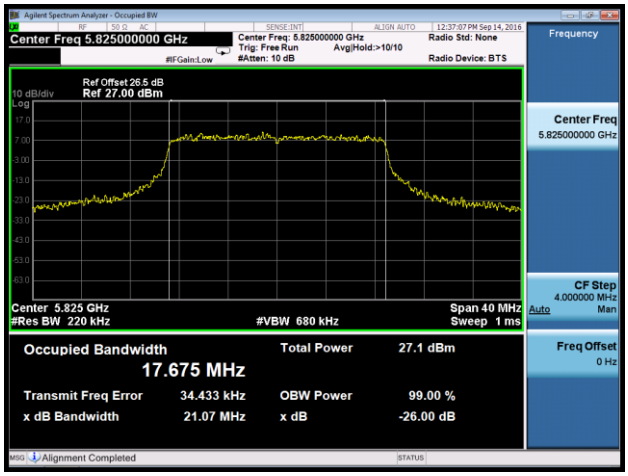
Channel 149 (5745MHz)



Channel 157 (5785MHz)

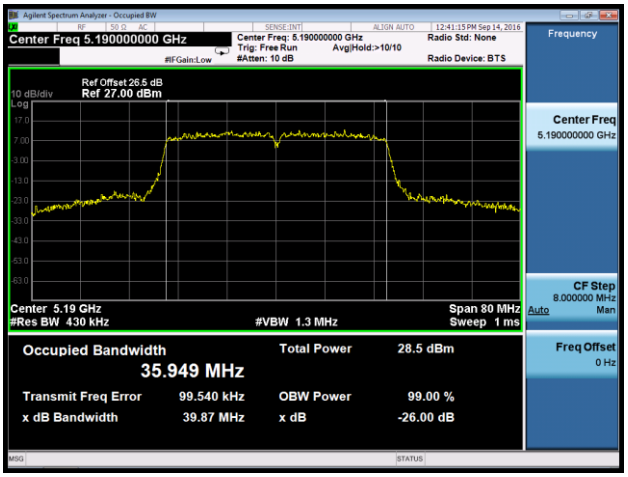


Channel 165 (5825MHz)

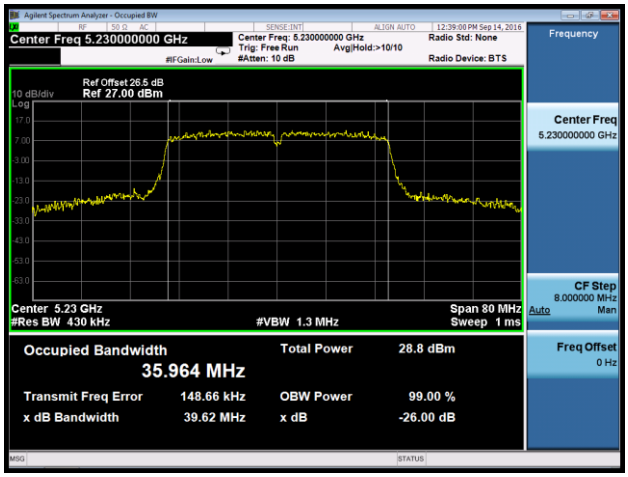


802.11n-HT40 26dB Bandwidth & 99% Bandwidth - Ant 1

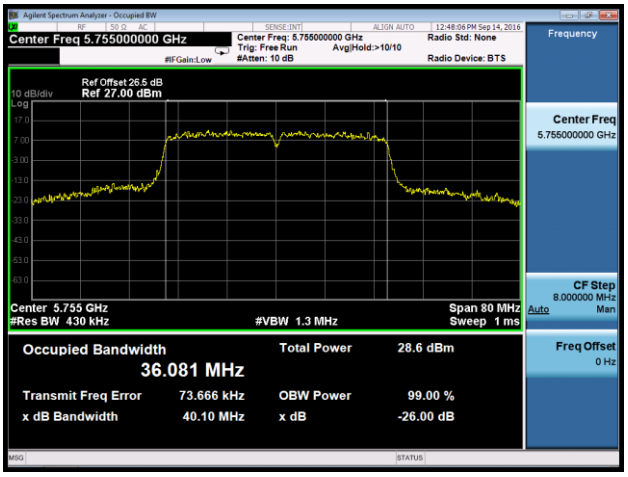
Channel 38 (5190MHz)



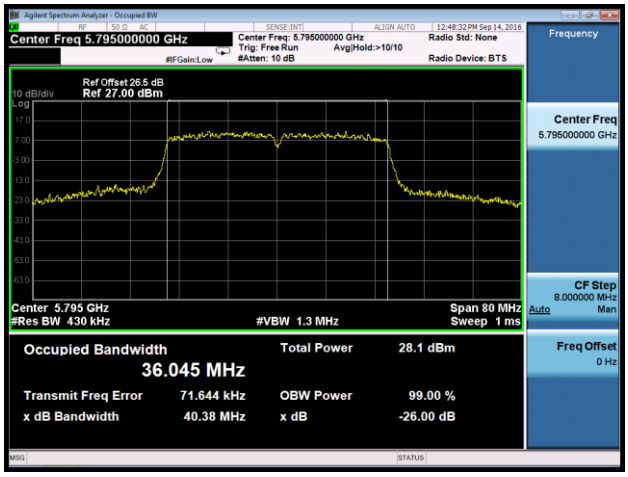
Channel 46 (5230MHz)



Channel 151 (5755 MHz)

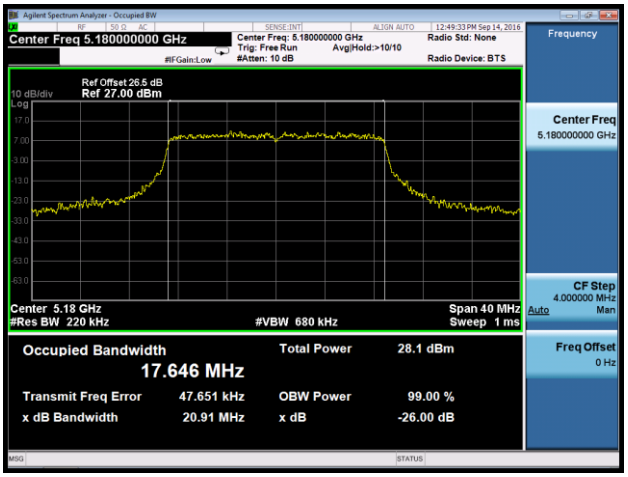


Channel 159 (5795 MHz)

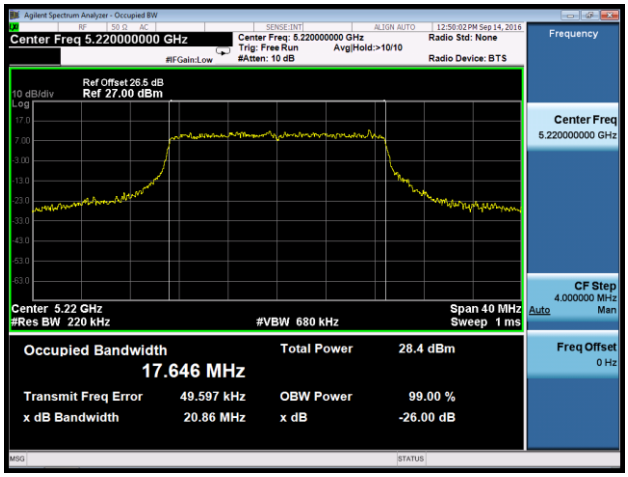


802.11ac-VHT20 26dB Bandwidth & 99% Bandwidth - Ant 1

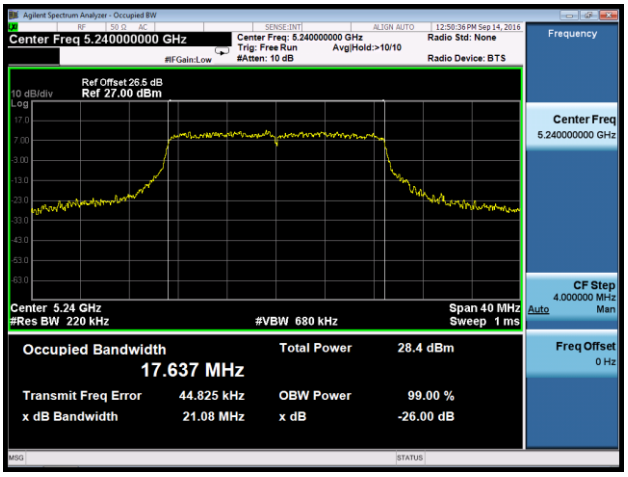
Channel 36 (5180MHz)



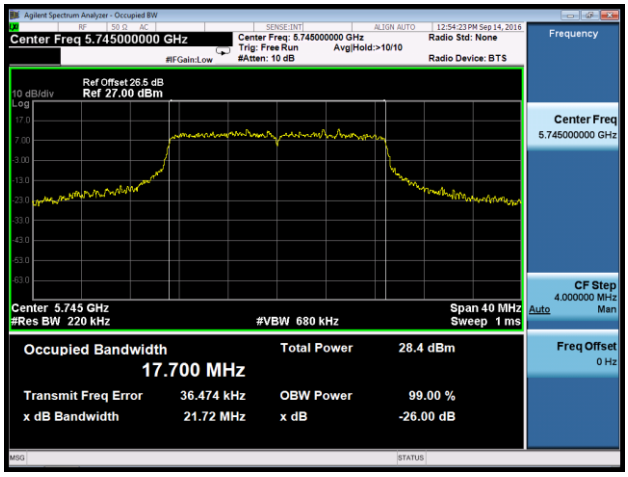
Channel 44 (5220MHz)



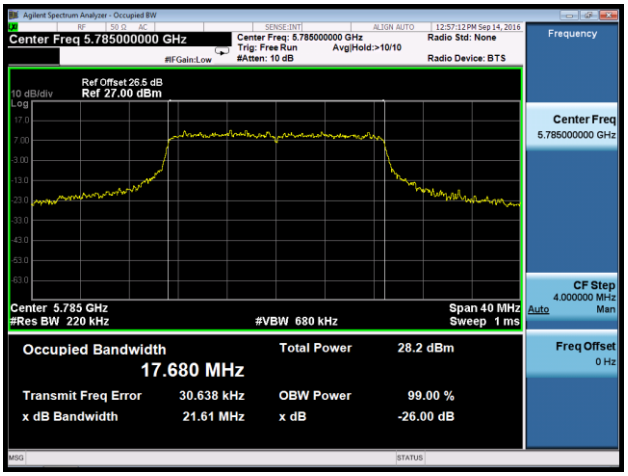
Channel 48 (5240MHz)



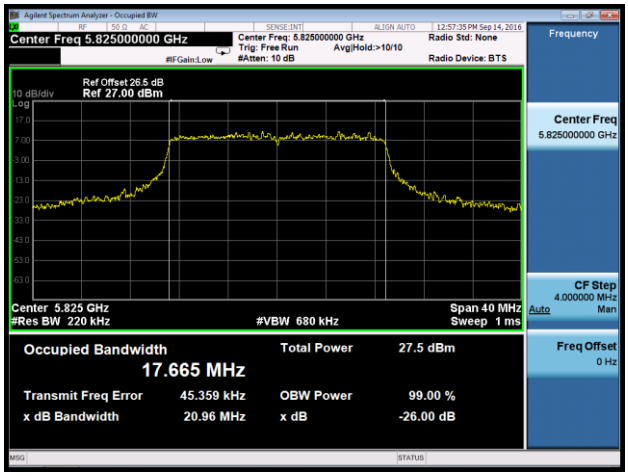
Channel 149 (5745MHz)



Channel 157 (5785MHz)

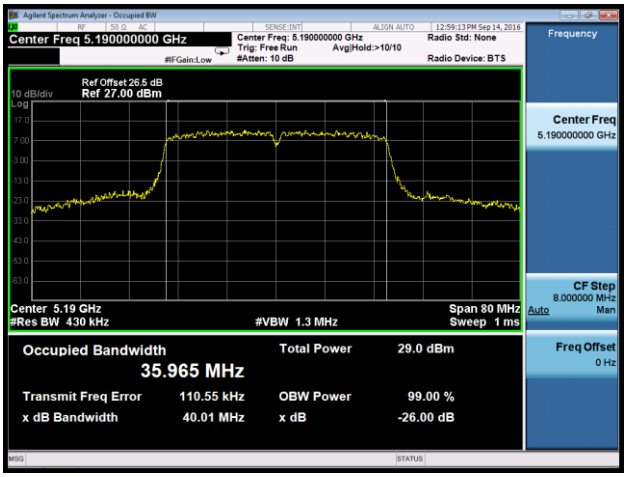


Channel 165 (5825MHz)

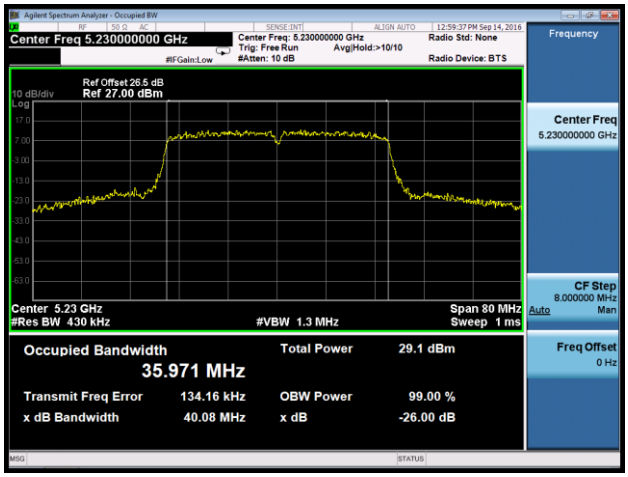


802.11ac-VHT40 26dB Bandwidth & 99% Bandwidth - Ant 1

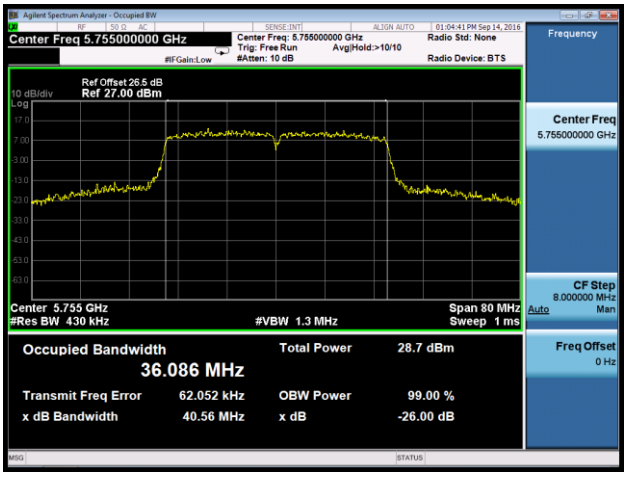
Channel 38 (5190MHz)



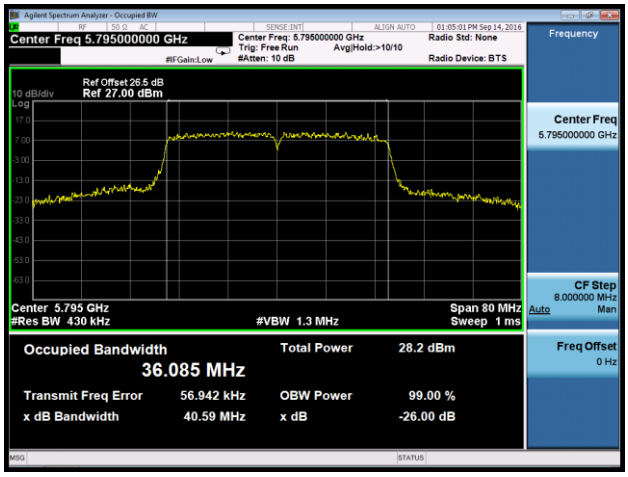
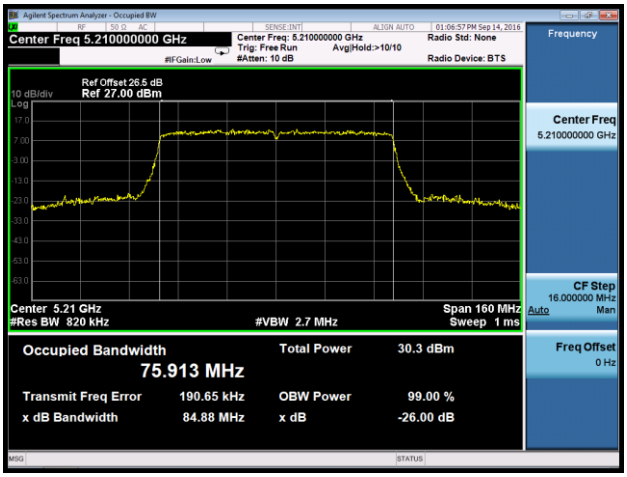
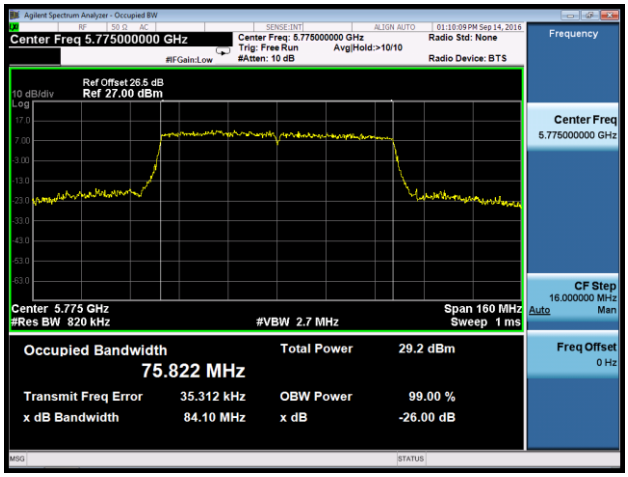
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT80 26dB Bandwidth & 99% Bandwidth - Ant 1	
Channel 42 (5210MHz)	**Channel 155 (5755MHz)**