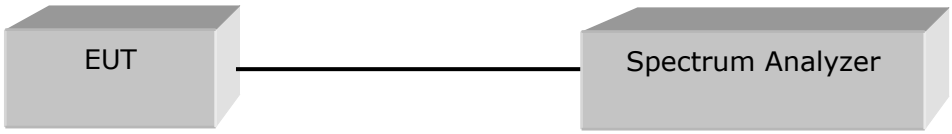
4.3 OUTPUT POWER

Test Procedures

Maximum Conducted Output Power(KDB 789033, Method SA-2)
Multiple Transmitter Output (KDB 662911 D01, D02)

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



Test Settings :

Center frequency = the highest, middle and the lowest channels

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Sweep time = auto

d) Detector = power averaging (rms)

e) Trace mode = Average at least 100

f) Duty cycle factor = 10log(1/x)

CDD Mode	802.11a	0.19 dB
	802.11n_HT20	0.21 dB
	802.11n_HT40	0.41 dB
	802.11ac_VHT20	0.21 dB
	802.11ac_VHT40	0.41 dB
	802.11ac_VHT80	0.86 dB
SDM Mode	802.11n_HT20	0.74 dB
	802.11n_HT40	1.30 dB
	802.11ac_VHT20	0.73 dB
	802.11ac_VHT40	1.29 dB
	802.11ac_VHT80	2.06 dB

Limit

Operating Mode	Band	Mode	ANT Configuration	ANT Gain (dBi)	Limit (dBm)
SISO	UNII 1	802.11a/n/ac	ANT0	2.00	30.00
			ANT1		
			ANT2		
			ANT3		
	UNII 3		ANT0		
			ANT1		
			ANT2		
			ANT3		
MIMO (2Tx)	UNII 1	802.11a/n/ac	ANT0 + ANT1	5.01	30.00
	UNII 3				
MIMO (3Tx)	UNII 1	802.11a/n/ac	ANT0 + ANT1 + ANT2	6.77	29.23
	UNII 3				
MIMO (4Tx)	UNII 1	802.11a/n/ac	ANT0 + ANT1 + ANT2 + ANT3	8.02	27.98
	UNII 3				

Test Data

CDD Mode_ANT0

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	16.59	0.19	16.78	30.00	13.22
	5 200	17.04	0.19	17.23	30.00	12.77
	5 240	17.00	0.19	17.19	30.00	12.81
	5 745	14.00	0.19	14.19	30.00	15.81
	5 785	14.01	0.19	14.20	30.00	15.80
	5 825	13.81	0.19	14.00	30.00	16.00
802.11n _HT20	5 180	16.04	0.21	16.25	30.00	13.75
	5 200	16.33	0.21	16.54	30.00	13.46
	5 240	16.44	0.21	16.65	30.00	13.35
	5 745	15.25	0.21	15.46	30.00	14.54
	5 785	14.90	0.21	15.11	30.00	14.89
	5 825	14.97	0.21	15.18	30.00	14.82
802.11ac _VHT20	5 180	17.11	0.21	17.32	30.00	12.68
	5 200	16.96	0.21	17.17	30.00	12.83
	5 240	17.02	0.21	17.23	30.00	12.77
	5 745	15.24	0.21	15.45	30.00	14.55
	5 785	15.33	0.21	15.54	30.00	14.46
	5 825	15.06	0.21	15.27	30.00	14.73
802.11n _HT40	5 190	12.87	0.41	13.28	30.00	16.72
	5 230	12.94	0.41	13.35	30.00	16.65
	5 755	15.11	0.41	15.52	30.00	14.48
	5 795	15.14	0.41	15.55	30.00	14.45
802.11ac _VHT40	5 190	12.73	0.41	13.14	30.00	16.86
	5 230	12.63	0.41	13.04	30.00	16.96
	5 755	15.26	0.41	15.67	30.00	14.33
	5 795	14.92	0.41	15.33	30.00	14.67
802.11ac _VHT80	5 210	9.97	0.86	10.83	30.00	19.17
	5 775	14.50	0.86	15.36	30.00	14.64
Measurement uncertainty		± 1.5 dB				

CDD Mode_ANT1

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	16.28	0.19	16.47	30.00	13.53
	5 200	16.47	0.19	16.66	30.00	13.34
	5 240	16.38	0.19	16.57	30.00	13.43
	5 745	13.60	0.19	13.79	30.00	16.21
	5 785	13.47	0.19	13.66	30.00	16.34
	5 825	13.22	0.19	13.41	30.00	16.59
802.11n _HT20	5 180	15.74	0.21	15.95	30.00	14.05
	5 200	15.64	0.21	15.85	30.00	14.15
	5 240	15.74	0.21	15.95	30.00	14.05
	5 745	15.01	0.21	15.22	30.00	14.78
	5 785	14.69	0.21	14.90	30.00	15.10
	5 825	14.29	0.21	14.50	30.00	15.50
802.11ac _VHT20	5 180	16.56	0.21	16.77	30.00	13.23
	5 200	16.33	0.21	16.54	30.00	13.46
	5 240	16.45	0.21	16.66	30.00	13.34
	5 745	15.01	0.21	15.22	30.00	14.78
	5 785	15.26	0.21	15.47	30.00	14.53
	5 825	14.22	0.21	14.43	30.00	15.57
802.11n _HT40	5 190	11.95	0.41	12.36	30.00	17.64
	5 230	12.02	0.41	12.43	30.00	17.57
	5 755	15.22	0.41	15.63	30.00	14.37
	5 795	14.62	0.41	15.03	30.00	14.97
802.11ac _VHT40	5 190	12.25	0.41	12.66	30.00	17.34
	5 230	12.04	0.41	12.45	30.00	17.55
	5 755	14.78	0.41	15.19	30.00	14.81
	5 795	14.82	0.41	15.23	30.00	14.77
802.11ac _VHT80	5 210	9.64	0.86	10.50	30.00	19.50
	5 775	14.54	0.86	15.40	30.00	14.60
Measurement uncertainty	± 1.5 dB					

CDD Mode_ANT2

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	16.87	0.19	17.06	30.00	12.94
	5 200	17.20	0.19	17.39	30.00	12.61
	5 240	16.85	0.19	17.04	30.00	12.96
	5 745	13.75	0.19	13.94	30.00	16.06
	5 785	13.73	0.19	13.92	30.00	16.08
	5 825	13.39	0.19	13.58	30.00	16.42
802.11n _HT20	5 180	16.17	0.21	16.38	30.00	13.62
	5 200	16.15	0.21	16.36	30.00	13.64
	5 240	16.24	0.21	16.45	30.00	13.55
	5 745	14.74	0.21	14.95	30.00	15.05
	5 785	14.84	0.21	15.05	30.00	14.95
	5 825	14.48	0.21	14.69	30.00	15.31
802.11ac _VHT20	5 180	16.83	0.21	17.04	30.00	12.96
	5 200	17.05	0.21	17.26	30.00	12.74
	5 240	17.03	0.21	17.24	30.00	12.76
	5 745	14.99	0.21	15.20	30.00	14.80
	5 785	15.03	0.21	15.24	30.00	14.76
	5 825	14.51	0.21	14.72	30.00	15.28
802.11n _HT40	5 190	11.72	0.41	12.13	30.00	17.87
	5 230	12.10	0.41	12.51	30.00	17.49
	5 755	14.71	0.41	15.12	30.00	14.88
	5 795	15.18	0.41	15.59	30.00	14.41
802.11ac _VHT40	5 190	12.27	0.41	12.68	30.00	17.32
	5 230	12.32	0.41	12.73	30.00	17.27
	5 755	15.11	0.41	15.52	30.00	14.48
	5 795	15.01	0.41	15.42	30.00	14.58
802.11ac _VHT80	5 210	9.31	0.86	10.17	30.00	19.83
	5 775	14.02	0.86	14.88	30.00	15.12
Measurement uncertainty		± 1.5 dB				

CDD Mode_ANT3

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	16.06	0.19	16.25	30.00	13.75
	5 200	15.92	0.19	16.11	30.00	13.89
	5 240	16.06	0.19	16.25	30.00	13.75
	5 745	13.50	0.19	13.69	30.00	16.31
	5 785	13.42	0.19	13.61	30.00	16.39
	5 825	12.80	0.19	12.99	30.00	17.01
802.11n _HT20	5 180	15.35	0.21	15.56	30.00	14.44
	5 200	15.37	0.21	15.58	30.00	14.42
	5 240	15.48	0.21	15.69	30.00	14.31
	5 745	14.71	0.21	14.92	30.00	15.08
	5 785	14.27	0.21	14.48	30.00	15.52
	5 825	13.80	0.21	14.01	30.00	15.99
802.11ac _VHT20	5 180	15.82	0.21	16.03	30.00	13.97
	5 200	16.04	0.21	16.25	30.00	13.75
	5 240	16.06	0.21	16.27	30.00	13.73
	5 745	14.59	0.21	14.80	30.00	15.20
	5 785	14.45	0.21	14.66	30.00	15.34
	5 825	14.04	0.21	14.25	30.00	15.75
802.11n _HT40	5 190	11.52	0.41	11.93	30.00	18.07
	5 230	11.95	0.41	12.36	30.00	17.64
	5 755	14.73	0.41	15.14	30.00	14.86
	5 795	14.43	0.41	14.84	30.00	15.16
802.11ac _VHT40	5 190	11.64	0.41	12.05	30.00	17.95
	5 230	11.76	0.41	12.17	30.00	17.83
	5 755	14.55	0.41	14.96	30.00	15.04
	5 795	14.47	0.41	14.88	30.00	15.12
802.11ac _VHT80	5 210	8.58	0.86	9.44	30.00	20.56
	5 775	13.82	0.86	14.68	30.00	15.32
Measurement uncertainty	± 1.5 dB					

CDD Mode_ANT0 + ANT1

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	19.45	0.19	19.64	30.00	10.36
	5 200	19.77	0.19	19.96	30.00	10.04
	5 240	19.71	0.19	19.90	30.00	10.10
	5 745	16.81	0.19	17.00	30.00	13.00
	5 785	16.76	0.19	16.95	30.00	13.05
	5 825	16.54	0.19	16.73	30.00	13.27
802.11n _HT20	5 180	18.90	0.21	19.11	30.00	10.89
	5 200	19.01	0.21	19.22	30.00	10.78
	5 240	19.11	0.21	19.32	30.00	10.68
	5 745	18.14	0.21	18.35	30.00	11.65
	5 785	17.81	0.21	18.02	30.00	11.98
	5 825	17.65	0.21	17.86	30.00	12.14
802.11ac _VHT20	5 180	19.85	0.21	20.06	30.00	9.94
	5 200	19.67	0.21	19.88	30.00	10.12
	5 240	19.75	0.21	19.96	30.00	10.04
	5 745	18.14	0.21	18.35	30.00	11.65
	5 785	18.31	0.21	18.52	30.00	11.48
	5 825	17.67	0.21	17.88	30.00	12.12
802.11n _HT40	5 190	15.44	0.41	15.85	30.00	14.15
	5 230	15.51	0.41	15.92	30.00	14.08
	5 755	18.18	0.41	18.59	30.00	11.41
	5 795	17.90	0.41	18.31	30.00	11.69
802.11ac _VHT40	5 190	15.51	0.41	15.92	30.00	14.08
	5 230	15.36	0.41	15.77	30.00	14.23
	5 755	18.04	0.41	18.45	30.00	11.55
	5 795	17.88	0.41	18.29	30.00	11.71
802.11ac _VHT80	5 210	12.82	0.86	13.68	30.00	16.32
	5 775	17.53	0.86	18.39	30.00	11.61
Measurement uncertainty		± 1.5 dB				

CDD Mode_ANT0 + ANT1 + ANT2

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	21.36	0.19	21.55	29.23	7.68
	5 200	21.69	0.19	21.88	29.23	7.35
	5 240	21.52	0.19	21.71	29.23	7.52
	5 745	18.56	0.19	18.75	29.23	10.48
	5 785	18.51	0.19	18.70	29.23	10.53
	5 825	18.25	0.19	18.44	29.23	10.79
802.11n _HT20	5 180	20.76	0.21	20.97	29.23	8.26
	5 200	20.82	0.21	21.03	29.23	8.20
	5 240	20.92	0.21	21.13	29.23	8.10
	5 745	19.78	0.21	19.99	29.23	9.24
	5 785	19.58	0.21	19.79	29.23	9.44
	5 825	19.36	0.21	19.57	29.23	9.66
802.11ac _VHT20	5 180	21.61	0.21	21.82	29.23	7.41
	5 200	21.56	0.21	21.77	29.23	7.46
	5 240	21.61	0.21	21.82	29.23	7.41
	5 745	19.85	0.21	20.06	29.23	9.17
	5 785	19.98	0.21	20.19	29.23	9.04
	5 825	19.38	0.21	19.59	29.23	9.64
802.11n _HT40	5 190	16.98	0.41	17.39	29.23	11.84
	5 230	17.14	0.41	17.55	29.23	11.68
	5 755	19.79	0.41	20.20	29.23	9.03
	5 795	19.76	0.41	20.17	29.23	9.06
802.11ac _VHT40	5 190	17.19	0.41	17.60	29.23	11.63
	5 230	17.11	0.41	17.52	29.23	11.71
	5 755	19.83	0.41	20.24	29.23	8.99
	5 795	19.69	0.41	20.10	29.23	9.13
802.11ac _VHT80	5 210	14.42	0.86	15.28	29.23	13.95
	5 775	19.13	0.86	19.99	29.23	9.24
Measurement uncertainty		± 1.5 dB				

CDD Mode_ANT0 + ANT1 + ANT2 + ANT3

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	22.48	0.19	22.67	27.98	5.31
	5 200	22.71	0.19	22.90	27.98	5.08
	5 240	22.61	0.19	22.80	27.98	5.18
	5 745	19.74	0.19	19.93	27.98	8.05
	5 785	19.68	0.19	19.87	27.98	8.11
	5 825	19.34	0.19	19.53	27.98	8.45
802.11n _HT20	5 180	21.86	0.21	22.07	27.98	5.91
	5 200	21.91	0.21	22.12	27.98	5.86
	5 240	22.01	0.21	22.22	27.98	5.76
	5 745	20.95	0.21	21.16	27.98	6.82
	5 785	20.70	0.21	20.91	27.98	7.07
	5 825	20.43	0.21	20.64	27.98	7.34
802.11ac _VHT20	5 180	22.63	0.21	22.84	27.98	5.14
	5 200	22.64	0.21	22.85	27.98	5.13
	5 240	22.68	0.21	22.89	27.98	5.09
	5 745	20.98	0.21	21.19	27.98	6.79
	5 785	21.05	0.21	21.26	27.98	6.72
	5 825	20.50	0.21	20.71	27.98	7.27
802.11n _HT40	5 190	18.07	0.41	18.48	27.98	9.50
	5 230	18.29	0.41	18.70	27.98	9.28
	5 755	20.97	0.41	21.38	27.98	6.60
	5 795	20.88	0.41	21.29	27.98	6.69
802.11ac _VHT40	5 190	18.26	0.41	18.67	27.98	9.31
	5 230	18.22	0.41	18.63	27.98	9.35
	5 755	20.95	0.41	21.36	27.98	6.62
	5 795	20.83	0.41	21.24	27.98	6.74
802.11ac _VHT80	5 210	15.43	0.86	16.29	27.98	11.69
	5 775	20.25	0.86	21.11	27.98	6.87
Measurement uncertainty		± 1.5 dB				

SDM Mode_ANT0

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	15.39	0.74	16.13	30.00	13.87
	5 200	15.60	0.74	16.34	30.00	13.66
	5 240	15.72	0.74	16.46	30.00	13.54
	5 745	14.39	0.74	15.13	30.00	14.87
	5 785	14.39	0.74	15.13	30.00	14.87
	5 825	13.75	0.74	14.49	30.00	15.51
802.11ac _VHT20	5 180	15.88	0.73	16.61	30.00	13.39
	5 200	16.30	0.73	17.03	30.00	12.97
	5 240	16.30	0.73	17.03	30.00	12.97
	5 745	14.56	0.73	15.29	30.00	14.71
	5 785	14.35	0.73	15.08	30.00	14.92
	5 825	14.02	0.73	14.75	30.00	15.25
802.11n _HT40	5 190	11.34	1.30	12.64	30.00	17.36
	5 230	11.67	1.30	12.97	30.00	17.03
	5 755	14.61	1.30	15.91	30.00	14.09
	5 795	14.57	1.30	15.87	30.00	14.13
802.11ac _VHT40	5 190	11.45	1.29	12.74	30.00	17.26
	5 230	11.94	1.29	13.23	30.00	16.77
	5 755	14.45	1.29	15.74	30.00	14.26
	5 795	14.57	1.29	15.86	30.00	14.14
802.11ac _VHT80	5 210	8.56	2.06	10.62	30.00	19.38
	5 775	13.38	2.06	15.44	30.00	14.56
Measurement uncertainty		± 1.5 dB				

SDM Mode_ANT1

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	15.18	0.74	15.92	30.00	14.08
	5 200	14.84	0.74	15.58	30.00	14.42
	5 240	15.14	0.74	15.88	30.00	14.12
	5 745	14.23	0.74	14.97	30.00	15.03
	5 785	14.43	0.74	15.17	30.00	14.83
	5 825	13.69	0.74	14.43	30.00	15.57
802.11ac _VHT20	5 180	15.77	0.73	16.50	30.00	13.50
	5 200	15.53	0.73	16.26	30.00	13.74
	5 240	15.81	0.73	16.54	30.00	13.46
	5 745	14.32	0.73	15.05	30.00	14.95
	5 785	14.36	0.73	15.09	30.00	14.91
	5 825	13.86	0.73	14.59	30.00	15.41
802.11n _HT40	5 190	11.28	1.30	12.58	30.00	17.42
	5 230	11.20	1.30	12.50	30.00	17.50
	5 755	14.15	1.30	15.45	30.00	14.55
	5 795	13.98	1.30	15.28	30.00	14.72
802.11ac _VHT40	5 190	11.13	1.29	12.42	30.00	17.58
	5 230	11.13	1.29	12.42	30.00	17.58
	5 755	14.28	1.29	15.57	30.00	14.43
	5 795	13.99	1.29	15.28	30.00	14.72
802.11ac _VHT80	5 210	8.05	2.06	10.11	30.00	19.89
	5 775	13.03	2.06	15.09	30.00	14.91
Measurement uncertainty		± 1.5 dB				

SDM Mode_ANT2

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	15.33	0.74	16.07	30.00	13.93
	5 200	15.28	0.74	16.02	30.00	13.98
	5 240	15.51	0.74	16.25	30.00	13.75
	5 745	14.46	0.74	15.20	30.00	14.80
	5 785	14.23	0.74	14.97	30.00	15.03
	5 825	14.21	0.74	14.95	30.00	15.05
802.11ac _VHT20	5 180	15.76	0.73	16.49	30.00	13.51
	5 200	16.06	0.73	16.79	30.00	13.21
	5 240	16.15	0.73	16.88	30.00	13.12
	5 745	14.52	0.73	15.25	30.00	14.75
	5 785	14.49	0.73	15.22	30.00	14.78
	5 825	14.39	0.73	15.12	30.00	14.88
802.11n _HT40	5 190	11.47	1.30	12.77	30.00	17.23
	5 230	11.58	1.30	12.88	30.00	17.12
	5 755	13.61	1.30	14.91	30.00	15.09
	5 795	13.83	1.30	15.13	30.00	14.87
802.11ac _VHT40	5 190	11.40	1.29	12.69	30.00	17.31
	5 230	11.53	1.29	12.82	30.00	17.18
	5 755	13.79	1.29	15.08	30.00	14.92
	5 795	13.78	1.29	15.07	30.00	14.93
802.11ac _VHT80	5 210	8.29	2.06	10.35	30.00	19.65
	5 775	12.64	2.06	14.70	30.00	15.30
Measurement uncertainty		± 1.5 dB				

SDM Mode_ANT3

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	14.85	0.74	15.59	30.00	14.41
	5 200	14.95	0.74	15.69	30.00	14.31
	5 240	14.75	0.74	15.49	30.00	14.51
	5 745	13.93	0.74	14.67	30.00	15.33
	5 785	13.76	0.74	14.50	30.00	15.50
	5 825	13.45	0.74	14.19	30.00	15.81
802.11ac _VHT20	5 180	15.25	0.73	15.98	30.00	14.02
	5 200	15.29	0.73	16.02	30.00	13.98
	5 240	15.25	0.73	15.98	30.00	14.02
	5 745	13.91	0.73	14.64	30.00	15.36
	5 785	13.91	0.73	14.64	30.00	15.36
	5 825	13.75	0.73	14.48	30.00	15.52
802.11n _HT40	5 190	10.82	1.30	12.12	30.00	17.88
	5 230	11.10	1.30	12.40	30.00	17.60
	5 755	13.97	1.30	15.27	30.00	14.73
	5 795	13.55	1.30	14.85	30.00	15.15
802.11ac _VHT40	5 190	10.74	1.29	12.03	30.00	17.97
	5 230	11.21	1.29	12.50	30.00	17.50
	5 755	13.91	1.29	15.20	30.00	14.80
	5 795	13.72	1.29	15.01	30.00	14.99
802.11ac _VHT80	5 210	7.36	2.06	9.42	30.00	20.58
	5 775	12.57	2.06	14.63	30.00	15.37
Measurement uncertainty		± 1.5 dB				

SDM Mode_ANT0 + ANT1

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	18.30	0.74	19.04	30.00	10.96
	5 200	18.25	0.74	18.99	30.00	11.01
	5 240	18.45	0.74	19.19	30.00	10.81
	5 745	17.32	0.74	18.06	30.00	11.94
	5 785	17.42	0.74	18.16	30.00	11.84
	5 825	16.73	0.74	17.47	30.00	12.53
802.11ac _VHT20	5 180	18.84	0.73	19.57	30.00	10.43
	5 200	18.94	0.73	19.67	30.00	10.33
	5 240	19.07	0.73	19.80	30.00	10.20
	5 745	17.45	0.73	18.18	30.00	11.82
	5 785	17.37	0.73	18.10	30.00	11.90
	5 825	16.95	0.73	17.68	30.00	12.32
802.11n _HT40	5 190	14.32	1.30	15.62	30.00	14.38
	5 230	14.45	1.30	15.75	30.00	14.25
	5 755	17.40	1.30	18.70	30.00	11.30
	5 795	17.30	1.30	18.60	30.00	11.40
802.11ac _VHT40	5 190	14.30	1.29	15.59	30.00	14.41
	5 230	14.56	1.29	15.85	30.00	14.15
	5 755	17.38	1.29	18.67	30.00	11.33
	5 795	17.30	1.29	18.59	30.00	11.41
802.11ac _VHT80	5 210	11.32	2.06	13.38	30.00	16.62
	5 775	16.22	2.06	18.28	30.00	11.72
Measurement uncertainty		± 1.5 dB				

SDM Mode_ANT0 + ANT1 + ANT2

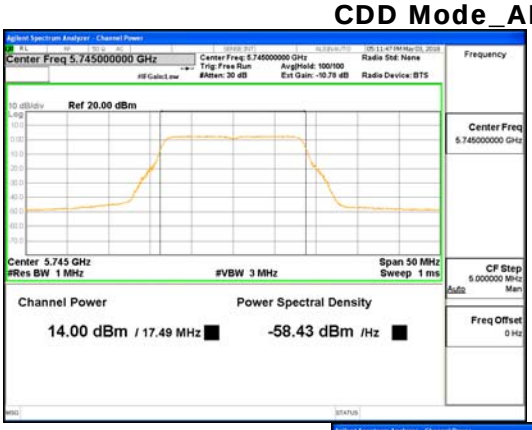
Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	20.07	0.74	20.81	29.23	8.42
	5 200	20.02	0.74	20.76	29.23	8.47
	5 240	20.23	0.74	20.97	29.23	8.26
	5 745	19.13	0.74	19.87	29.23	9.36
	5 785	19.12	0.74	19.86	29.23	9.37
	5 825	18.66	0.74	19.40	29.23	9.83
802.11ac _VHT20	5 180	20.57	0.73	21.30	29.23	7.93
	5 200	20.75	0.73	21.48	29.23	7.75
	5 240	20.86	0.73	21.59	29.23	7.64
	5 745	19.24	0.73	19.97	29.23	9.26
	5 785	19.17	0.73	19.90	29.23	9.33
	5 825	18.87	0.73	19.60	29.23	9.63
802.11n _HT40	5 190	16.14	1.30	17.44	29.23	11.79
	5 230	16.26	1.30	17.56	29.23	11.67
	5 755	18.91	1.30	20.21	29.23	9.02
	5 795	18.91	1.30	20.21	29.23	9.02
802.11ac _VHT40	5 190	16.10	1.29	17.39	29.23	11.84
	5 230	16.32	1.29	17.61	29.23	11.62
	5 755	18.95	1.29	20.24	29.23	8.99
	5 795	18.90	1.29	20.19	29.23	9.04
802.11ac _VHT80	5 210	13.08	2.06	15.14	29.23	14.09
	5 775	17.80	2.06	19.86	29.23	9.37
Measurement uncertainty		± 1.5 dB				

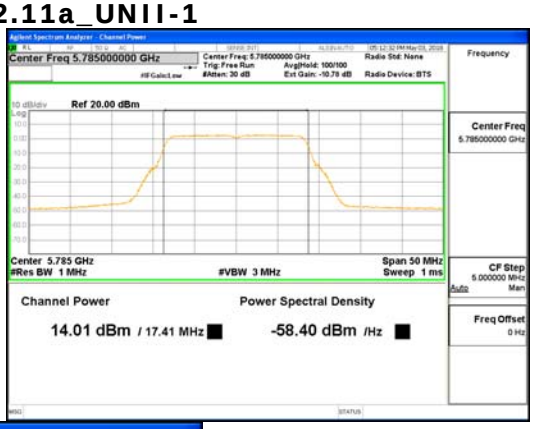
SDM Mode_ANT0 + ANT1 + ANT2 + ANT3

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	21.21	0.74	21.95	27.98	6.03
	5 200	21.20	0.74	21.94	27.98	6.04
	5 240	21.32	0.74	22.06	27.98	5.92
	5 745	20.28	0.74	21.02	27.98	6.96
	5 785	20.23	0.74	20.97	27.98	7.01
	5 825	19.80	0.74	20.54	27.98	7.44
802.11ac _VHT20	5 180	21.69	0.73	22.42	27.98	5.56
	5 200	21.83	0.73	22.56	27.98	5.42
	5 240	21.92	0.73	22.65	27.98	5.33
	5 745	20.36	0.73	21.09	27.98	6.89
	5 785	20.30	0.73	21.03	27.98	6.95
	5 825	20.03	0.73	20.76	27.98	7.22
802.11n _HT40	5 190	17.25	1.30	18.55	27.98	9.43
	5 230	17.41	1.30	18.71	27.98	9.27
	5 755	20.12	1.30	21.42	27.98	6.56
	5 795	20.02	1.30	21.32	27.98	6.66
802.11ac _VHT40	5 190	17.21	1.29	18.50	27.98	9.48
	5 230	17.48	1.29	18.77	27.98	9.21
	5 755	20.14	1.29	21.43	27.98	6.55
	5 795	20.05	1.29	21.34	27.98	6.64
802.11ac _VHT80	5 210	14.11	2.06	16.17	27.98	11.81
	5 775	18.94	2.06	21.00	27.98	6.98
Measurement uncertainty		± 1.5 dB				

See next pages for actual measured spectrum plots.

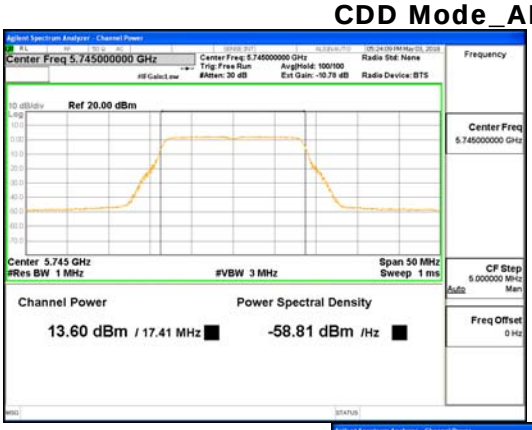
CDD Mode_ANT0_802.11a_UNII-1

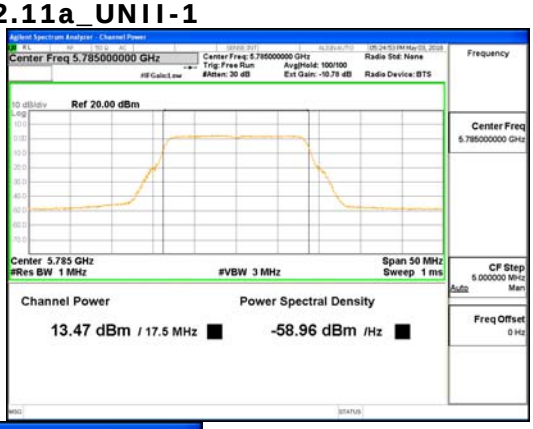




CDD Mode_ANT0_802.11a_UNII-3

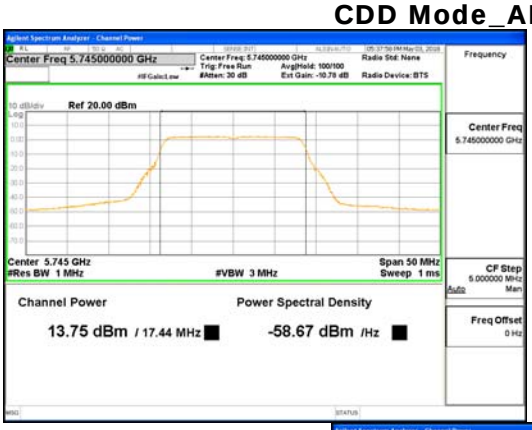
CDD Mode_ANT1_802.11a_UNII-1

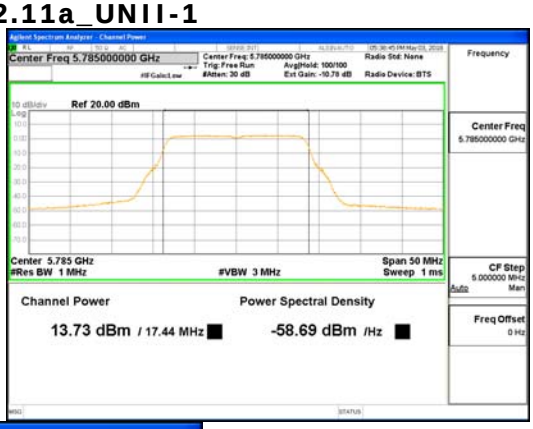




CDD Mode_ANT1_802.11a_UNII-3

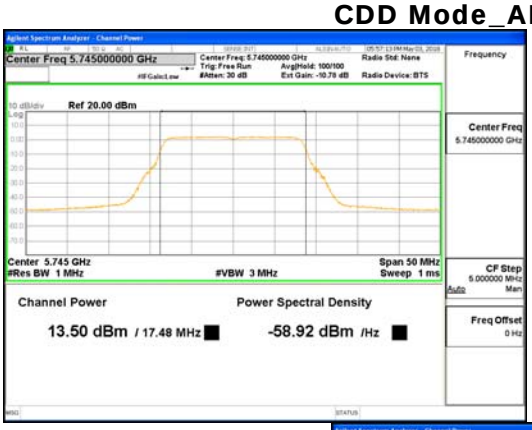
CDD Mode_ANT2_802.11a_UNII-1

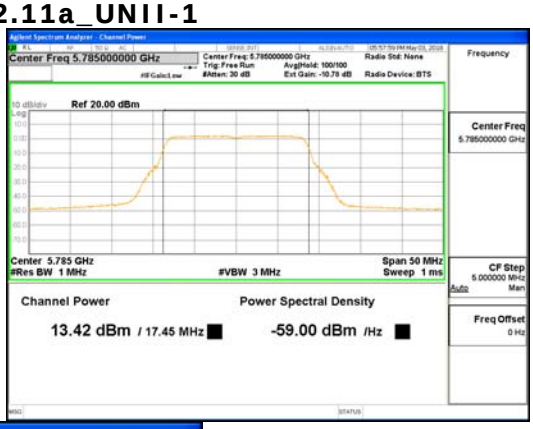




CDD Mode_ANT2_802.11a_UNII-3

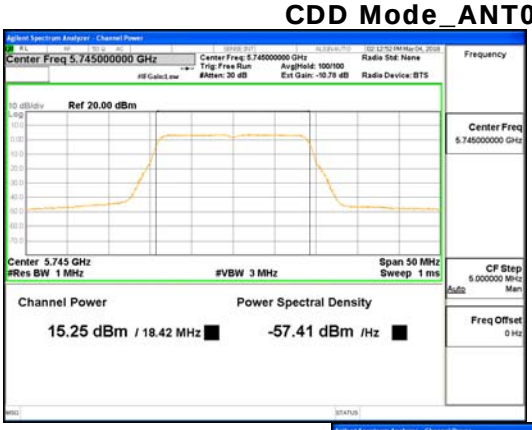
CDD Mode_ANT3_802.11a_UNII-1

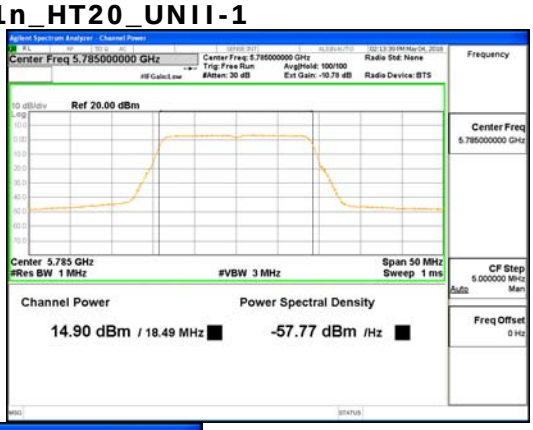




CDD Mode_ANT3_802.11a_UNII-3

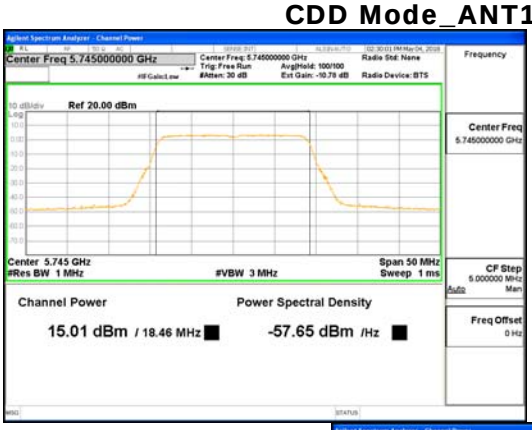
CDD Mode_ANT0_802.11n_HT20_UNII-1

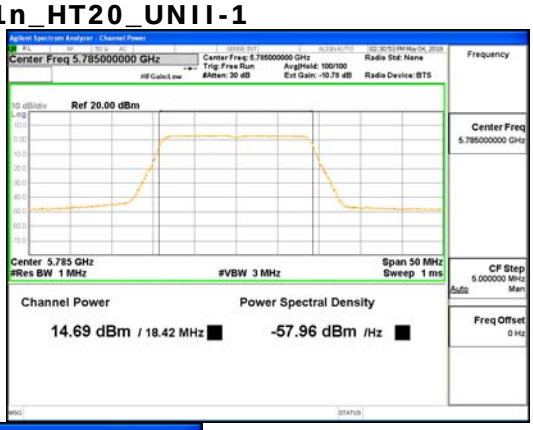




CDD Mode_ANT0_802.11n_HT20_UNII-3

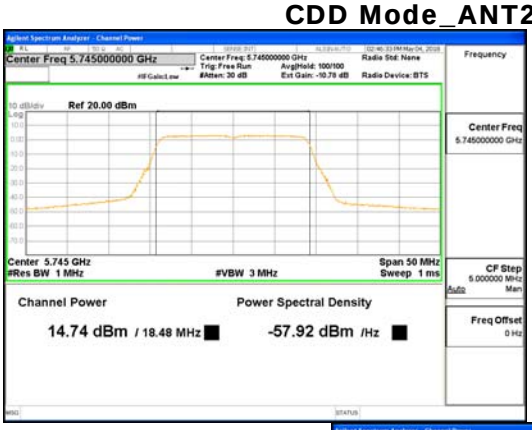
CDD Mode_ANT1_802.11n_HT20_UNII-1

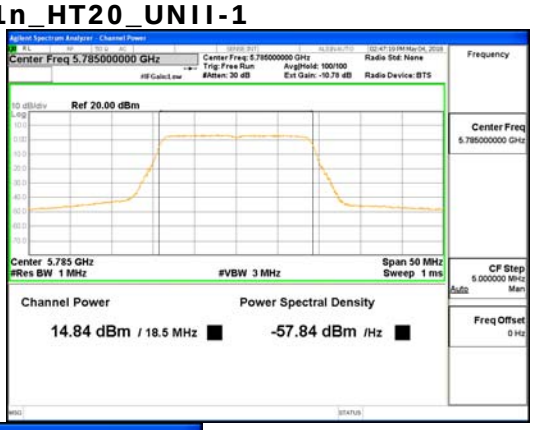




CDD Mode_ANT1_802.11n_HT20_UNII-3

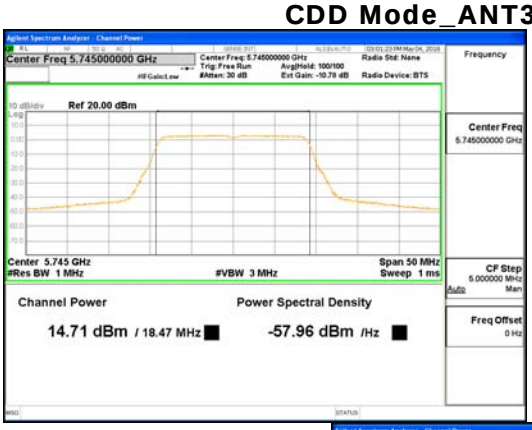
CDD Mode_ANT2_802.11n_HT20_UNII-1

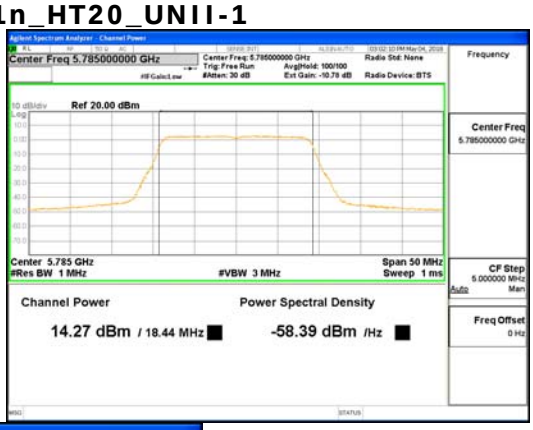




CDD Mode_ANT2_802.11n_HT20_UNII-3

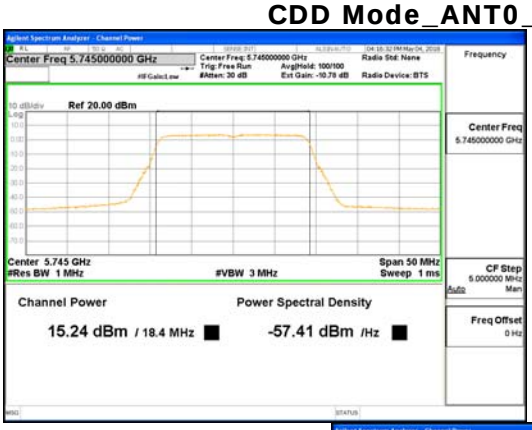
CDD Mode_ANT3_802.11n_HT20_UNII-1

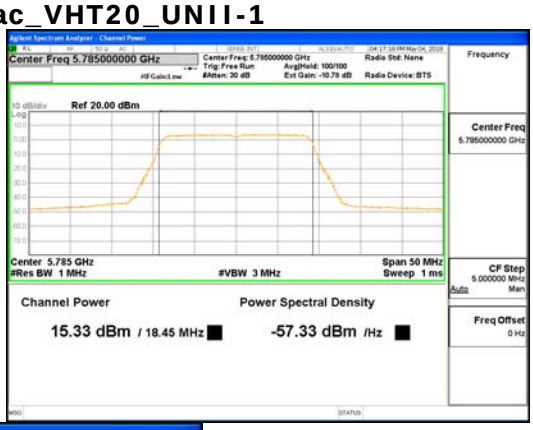




CDD Mode_ANT3_802.11n_HT20_UNII-3

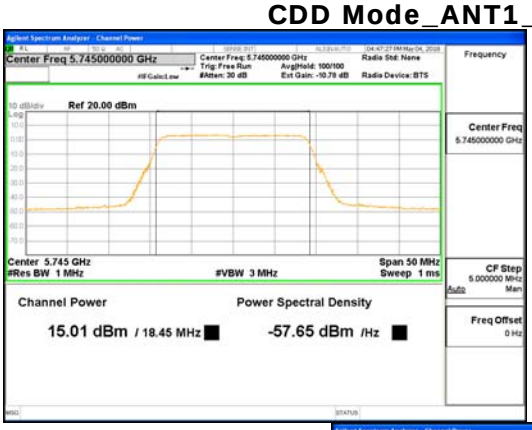
CDD Mode_ANT0_802.11ac_VHT20_UNII-1

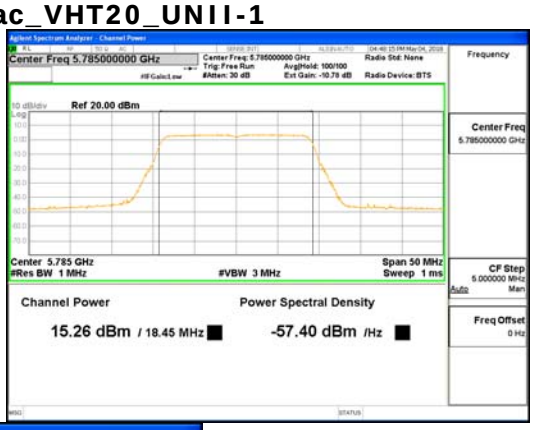




CDD Mode_ANT0_802.11ac_VHT20_UNII-3

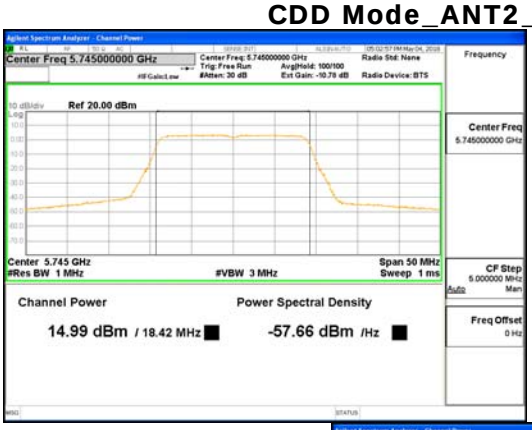
CDD Mode_ANT1_802.11ac_VHT20_UNII-1

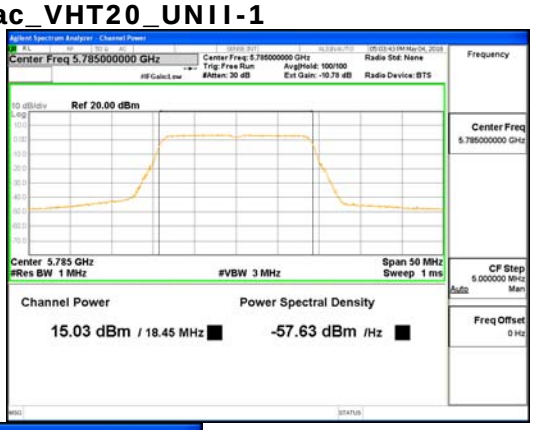




CDD Mode_ANT1_802.11ac_VHT20_UNII-3

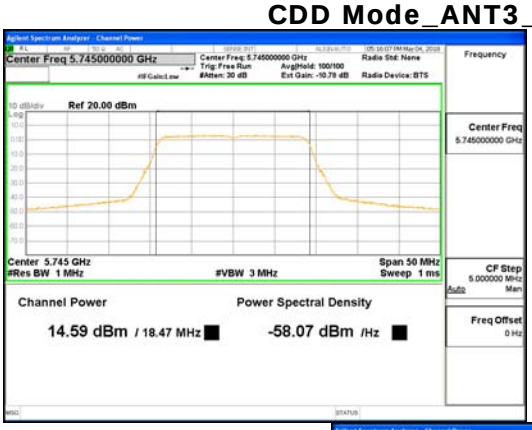
CDD Mode_ANT2_802.11ac_VHT20_UNII-1

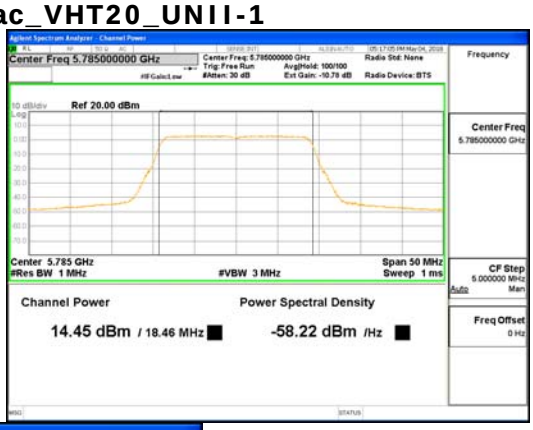




CDD Mode_ANT2_802.11ac_VHT20_UNII-3

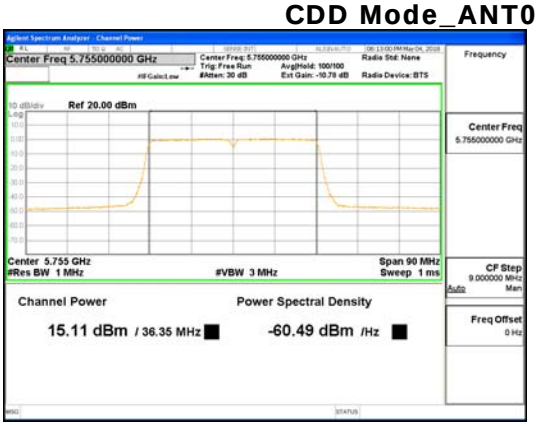
CDD Mode_ANT3_802.11ac_VHT20_UNII-1

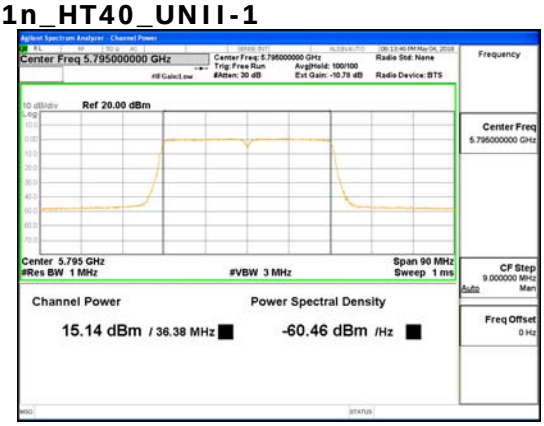




CDD Mode_ANT3_802.11ac_VHT20_UNII-3

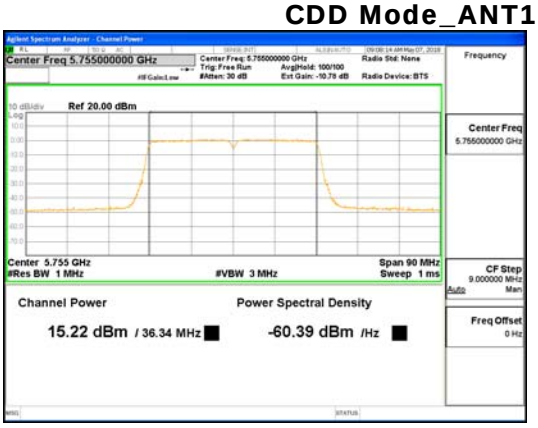
CDD Mode_ANT0_802.11n_HT40_UNII-1

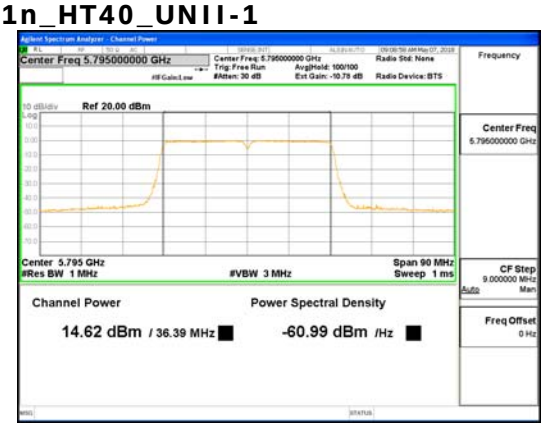




CDD Mode_ANT0_802.11n_HT40_UNII-3

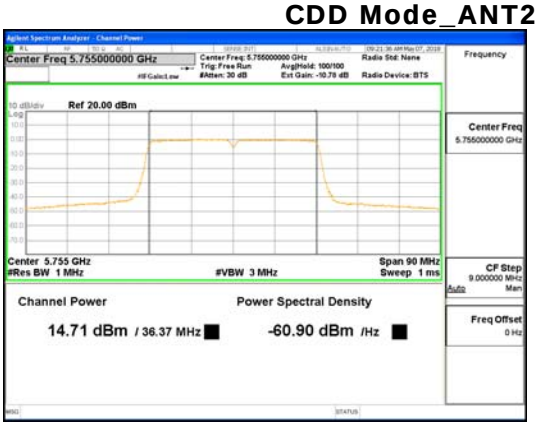
CDD Mode_ANT1_802.11n_HT40_UNII-1

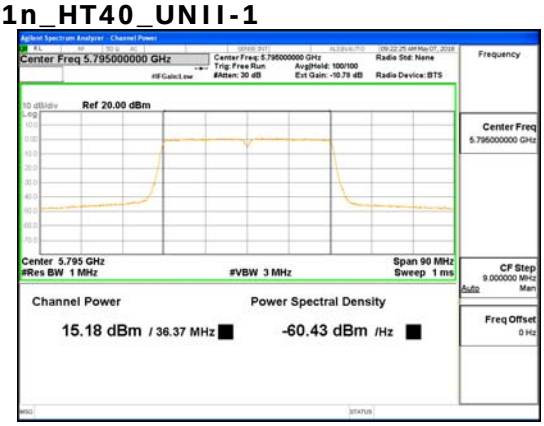




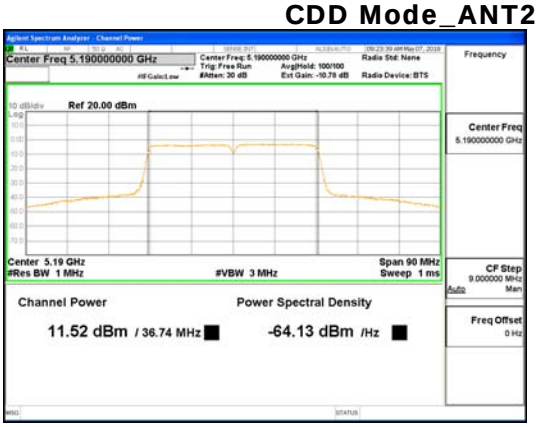
CDD Mode_ANT1_802.11n_HT40_UNII-3

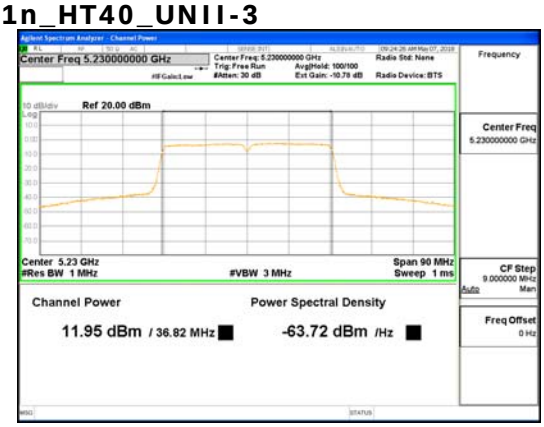
CDD Mode_ANT2_802.11n_HT40_UNII-1



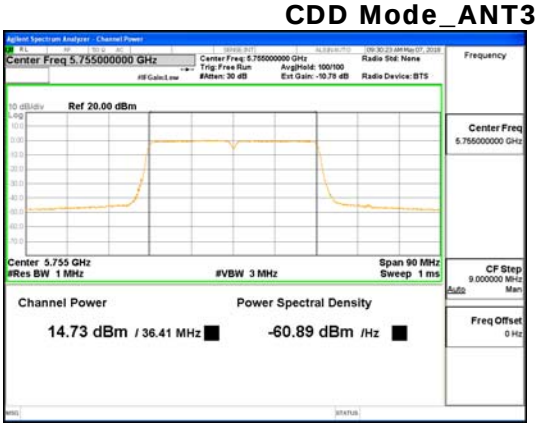


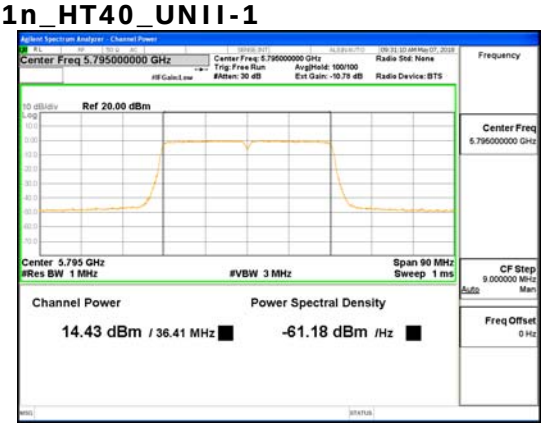
CDD Mode_ANT2_802.11n_HT40_UNII-3





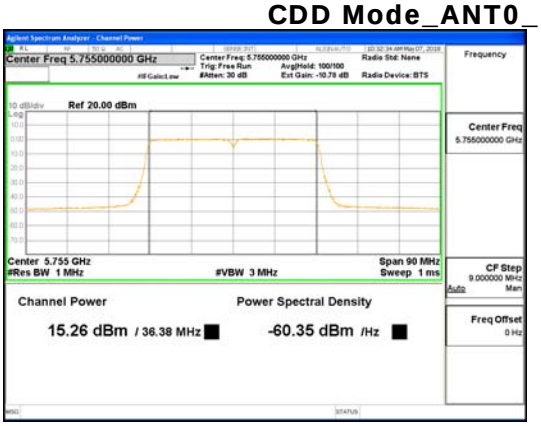
CDD Mode_ANT3_802.11n_HT40_UNII-1

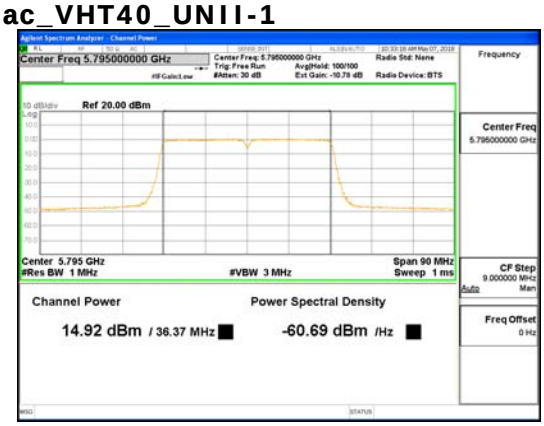




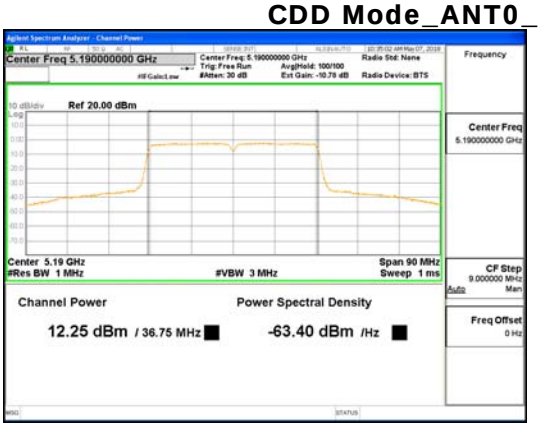
CDD Mode_ANT3_802.11n_HT40_UNII-3

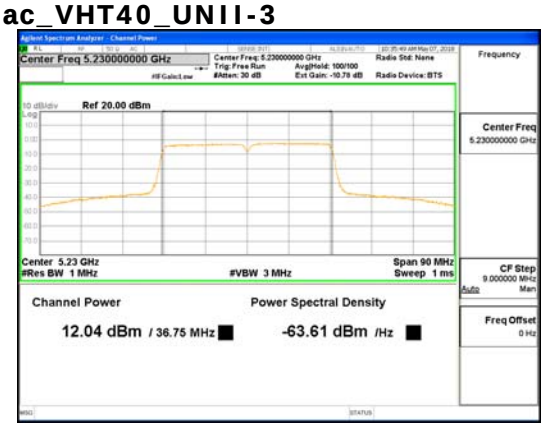
CDD Mode_ANT0_802.11ac_VHT40_UNII-1



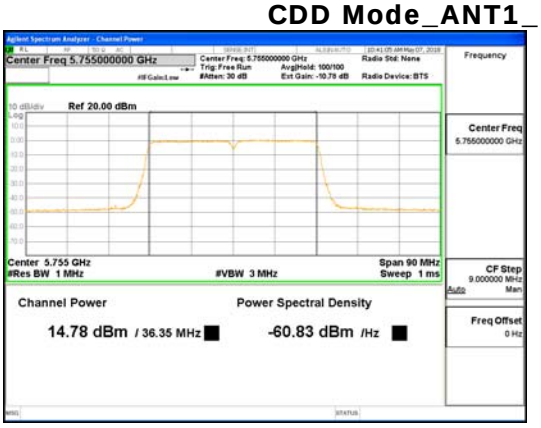


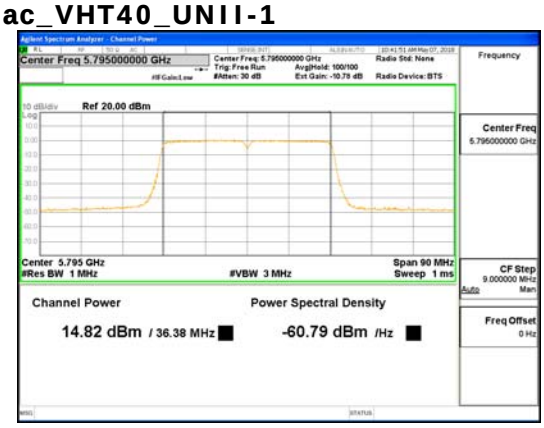
CDD Mode_ANT0_802.11ac_VHT40_UNII-3





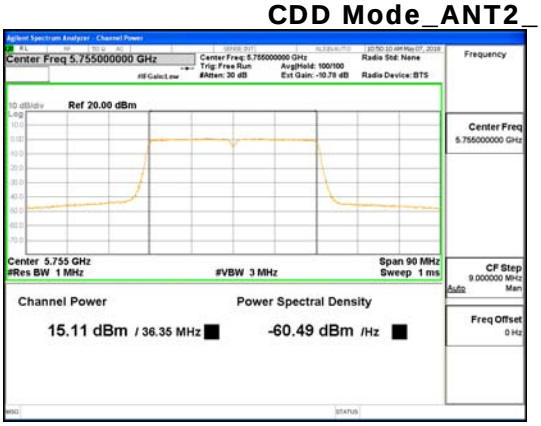
CDD Mode_ANT1_802.11ac_VHT40_UNII-1

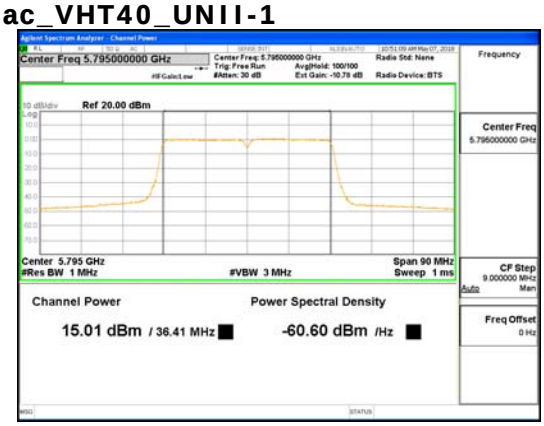




CDD Mode_ANT1_802.11ac_VHT40_UNII-3

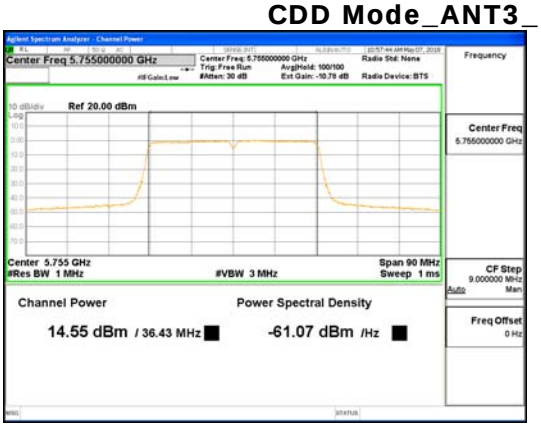
CDD Mode_ANT2_802.11ac_VHT40_UNII-1

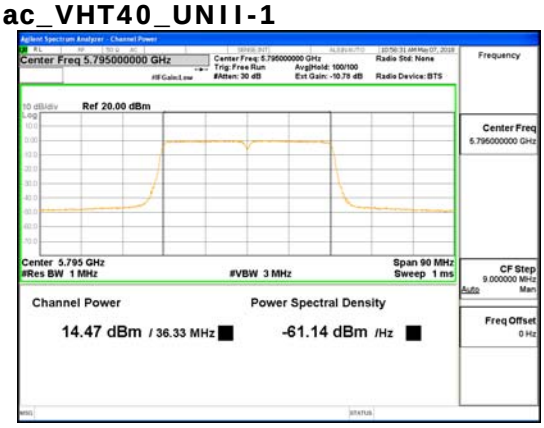




CDD Mode_ANT2_802.11ac_VHT40_UNII-3

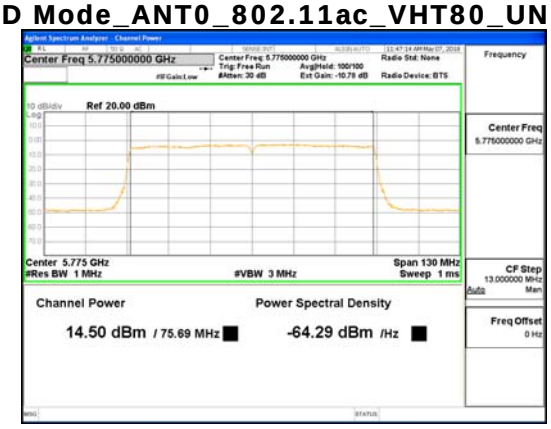
CDD Mode_ANT3_802.11ac_VHT40_UNII-1





CDD Mode_ANT3_802.11ac_VHT40_UNII-3

CDD Mode_ANT0_802.11ac_VHT80_UNII-1

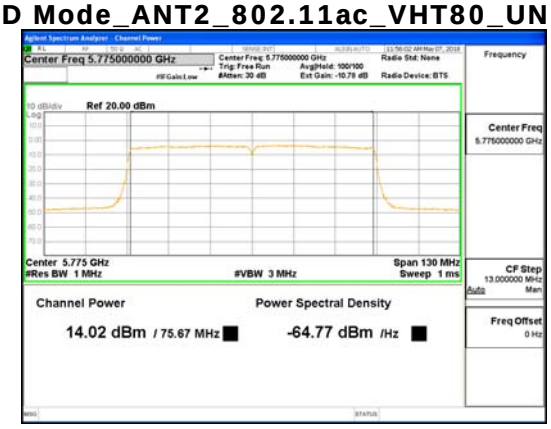


CDD Mode_ANT0_802.11ac_VHT80_UNII-3

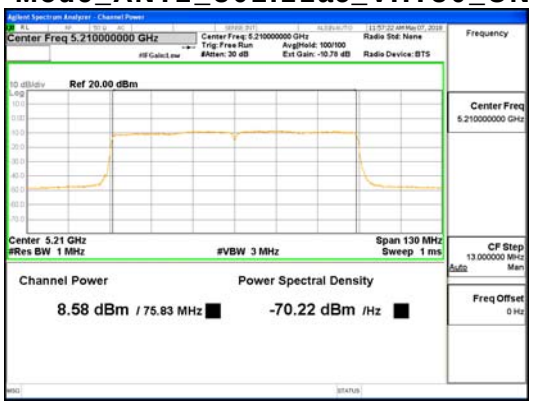
CDD Mode_ANT1_802.11ac_VHT80_UNII-1

CDD Mode_ANT1_802.11ac_VHT80_UNII-3

CDD Mode_ANT2_802.11ac_VHT80_UNII-1



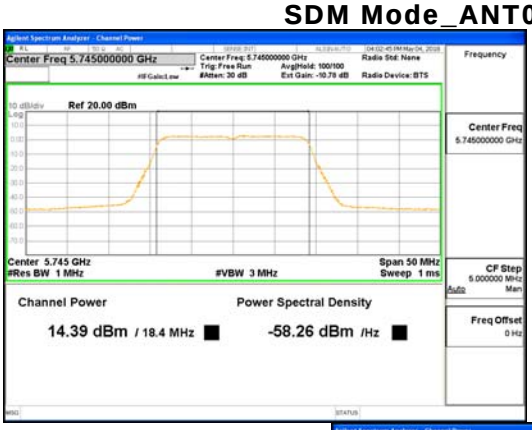
CDD Mode_ANT2_802.11ac_VHT80_UNII-3

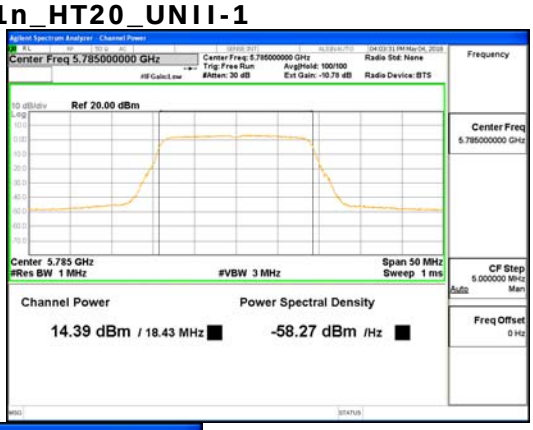


CDD Mode_ANT3_802.11ac_VHT80_UNII-1

CDD Mode_ANT3_802.11ac_VHT80_UNII-3

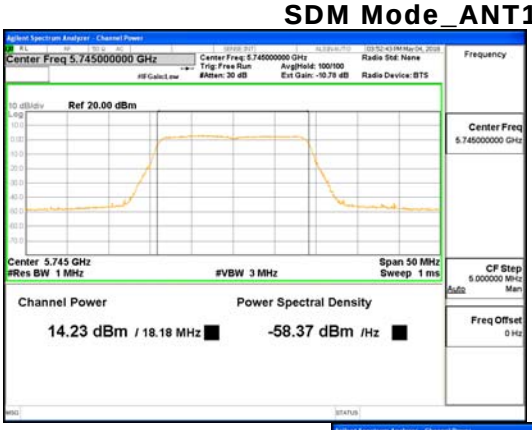
SDM Mode_ANT0_802.11n_HT20_UNII-1

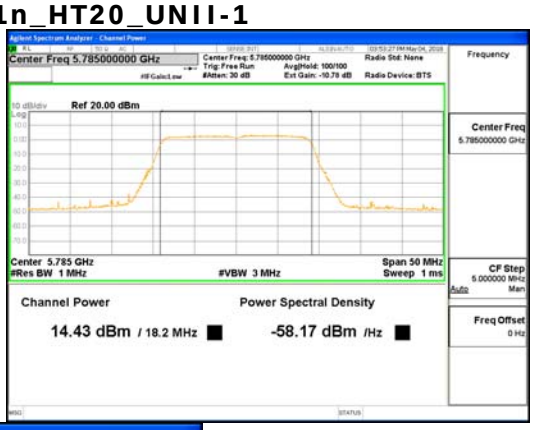




SDM Mode_ANT0_802.11n_HT20_UNII-3

SDM Mode_ANT1_802.11n_HT20_UNII-1





SDM Mode_ANT1_802.11n_HT20_UNII-3

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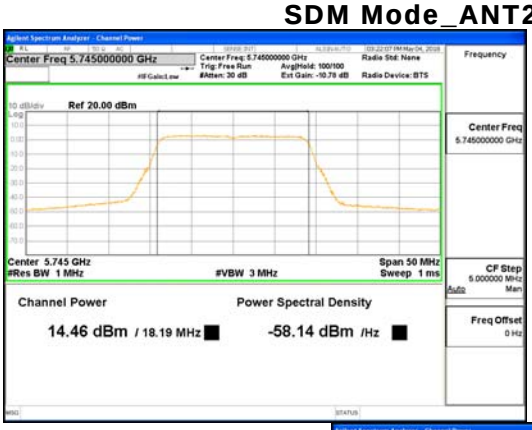
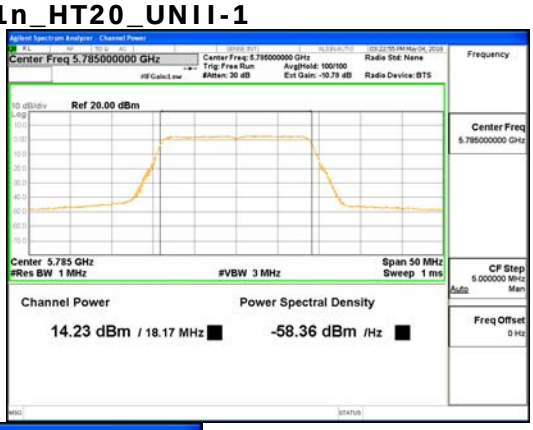
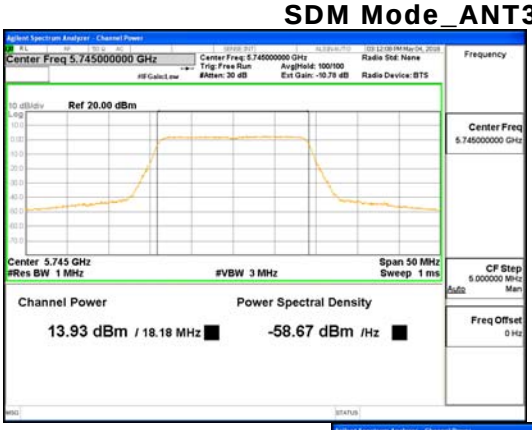
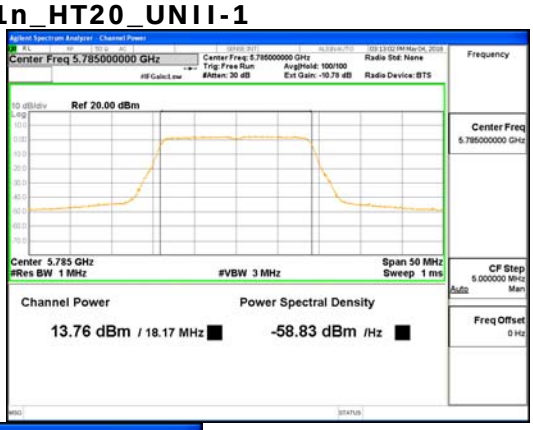




SDM Mode_ANT2_802.11n_HT20_UNII-3

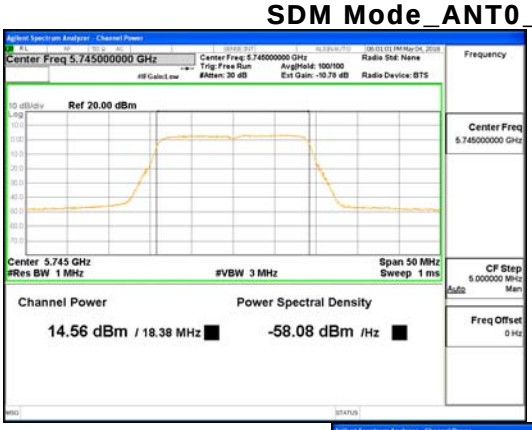
SDM Mode_ANT3_802.11n_HT20_UNII-1

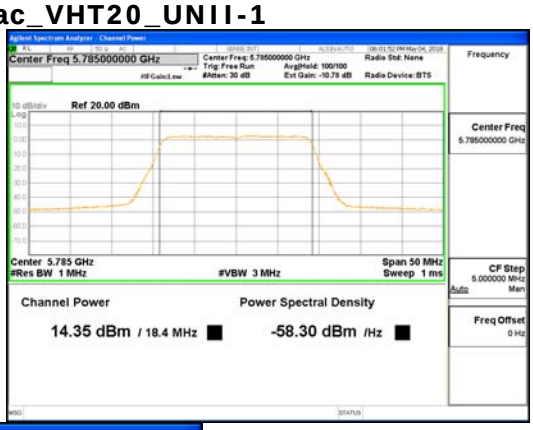




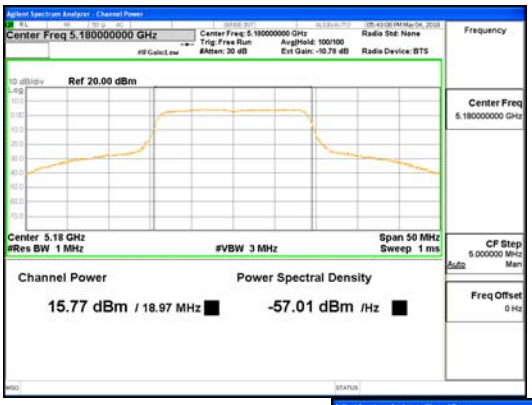
SDM Mode_ANT3_802.11n_HT20_UNII-3

SDM Mode_ANT0_802.11ac_VHT20_UNII-1





SDM Mode_ANT0_802.11ac_VHT20_UNII-3



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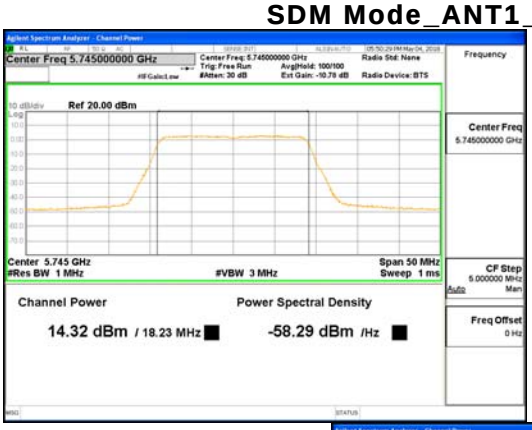
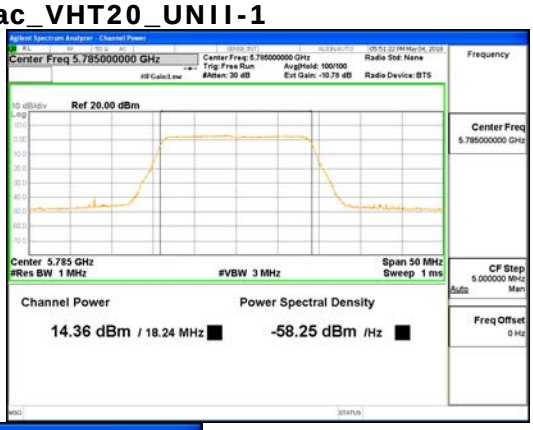
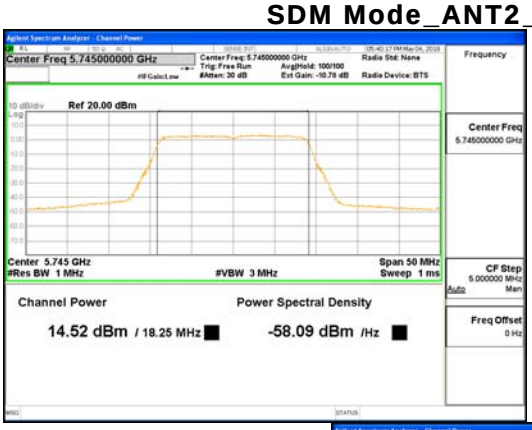
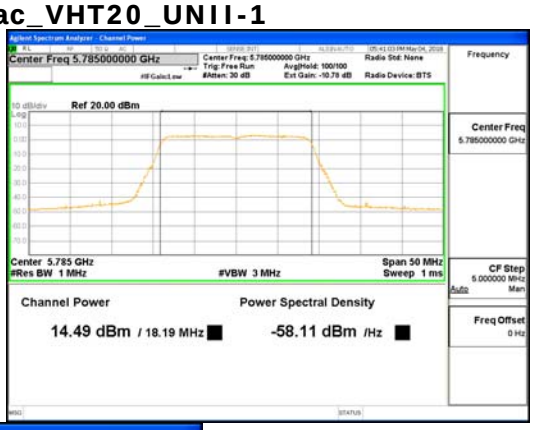




SDM Mode_ANT1_802.11ac_VHT20_UNII-3

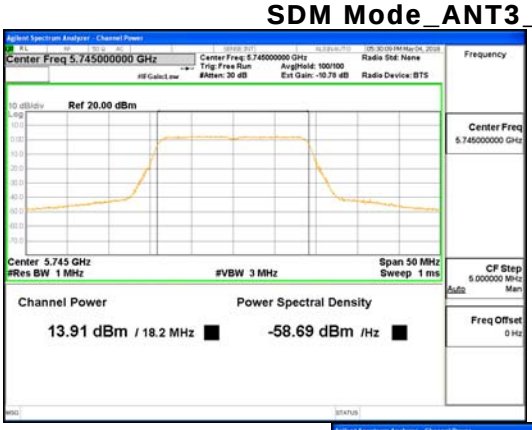
SDM Mode_ANT2_802.11ac_VHT20_UNII-1

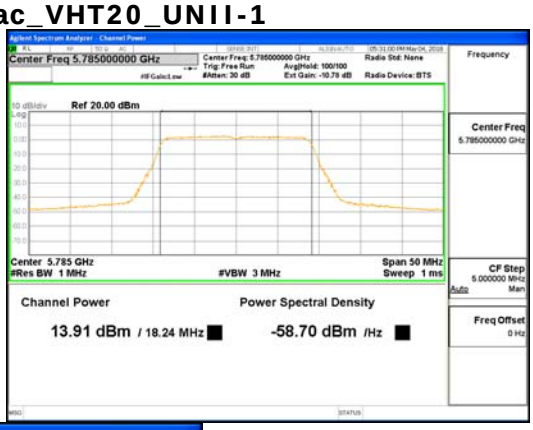




SDM Mode_ANT2_802.11ac_VHT20_UNII-3

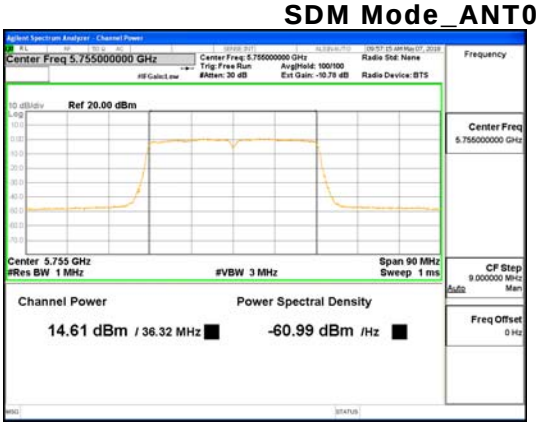
SDM Mode_ANT3_802.11ac_VHT20_UNII-1

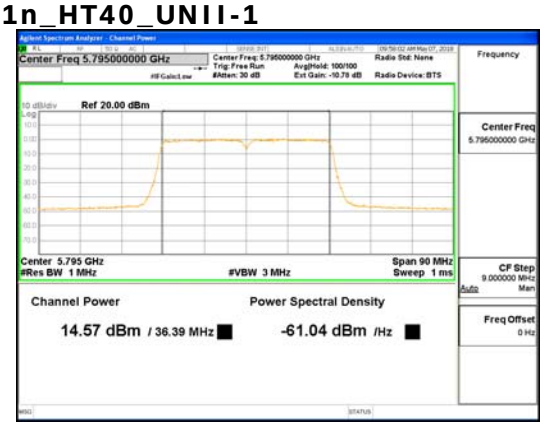




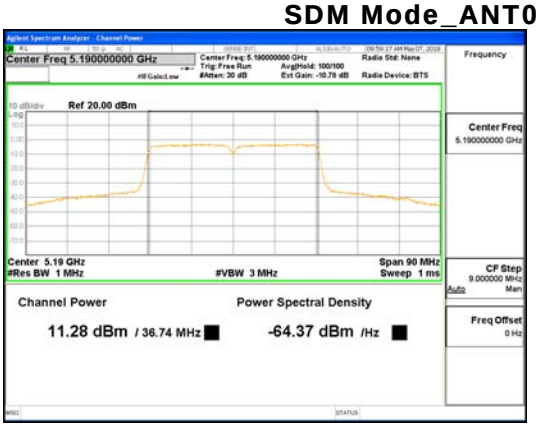
SDM Mode_ANT3_802.11ac_VHT20_UNII-3

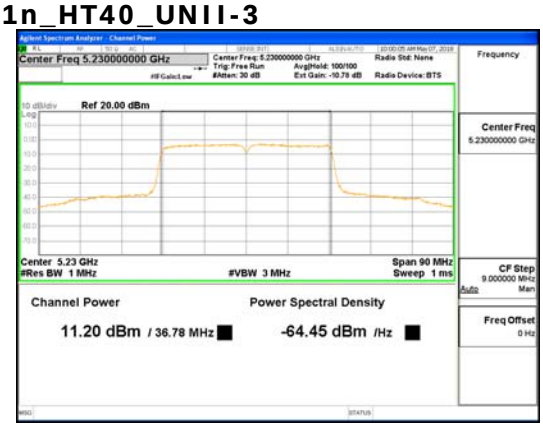
SDM Mode_ANT0_802.11n_HT40_UNII-1



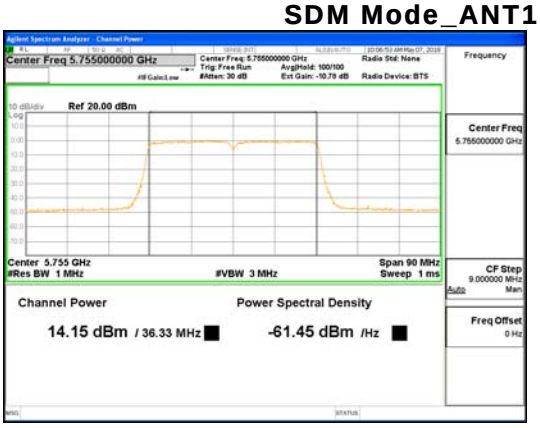


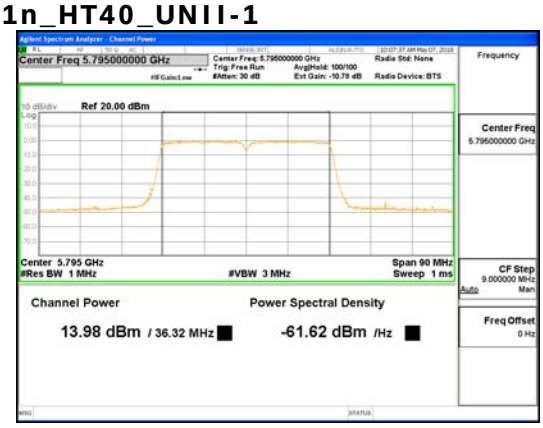
SDM Mode_ANT0_802.11n_HT40_UNII-3





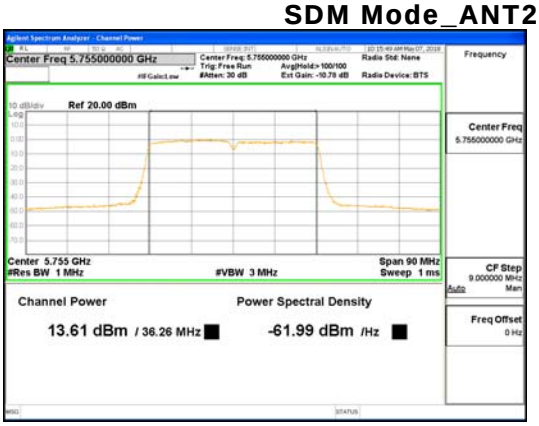
SDM Mode_ANT1_802.11n_HT40_UNII-1

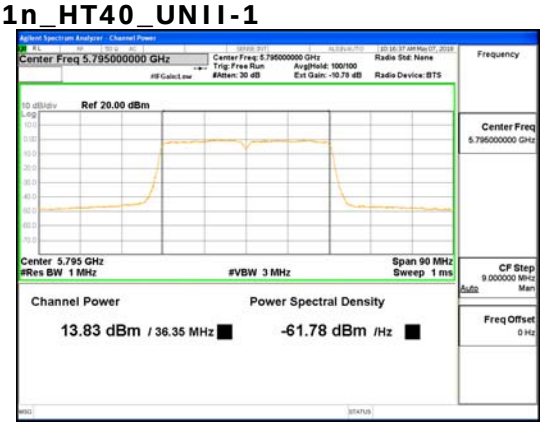




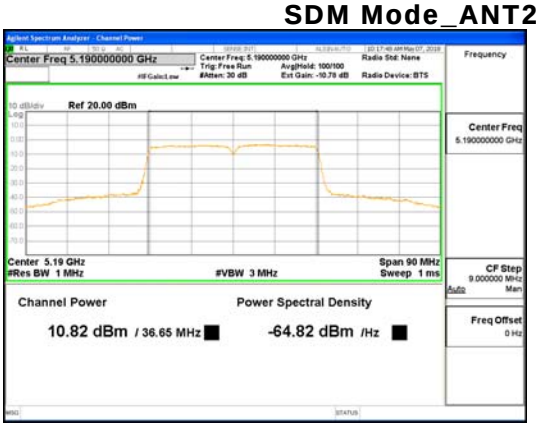
SDM Mode_ANT1_802.11n_HT40_UNII-3

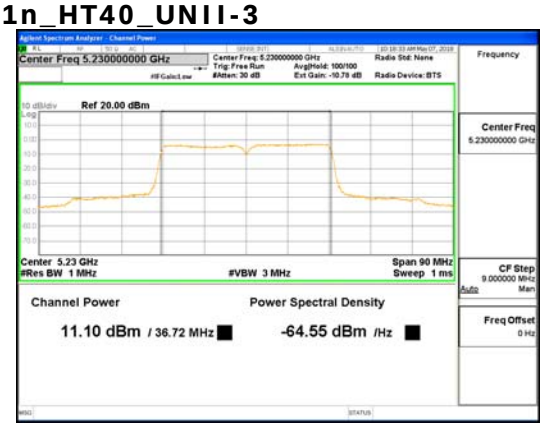
SDM Mode_ANT2_802.11n_HT40_UNII-1



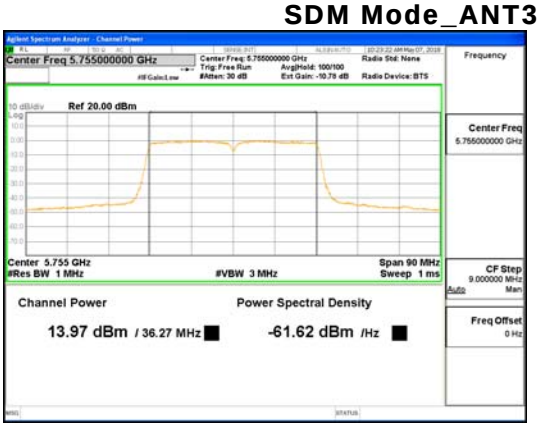


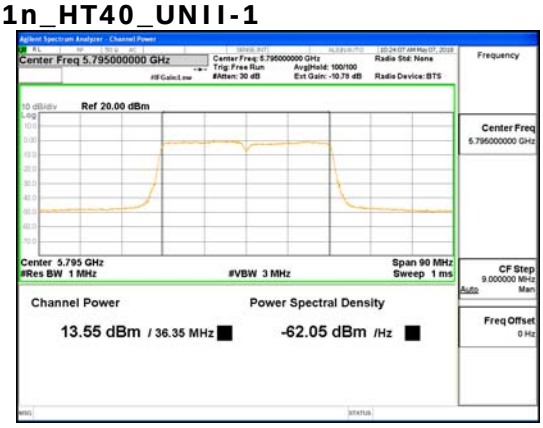
SDM Mode_ANT2_802.11n_HT40_UNII-3





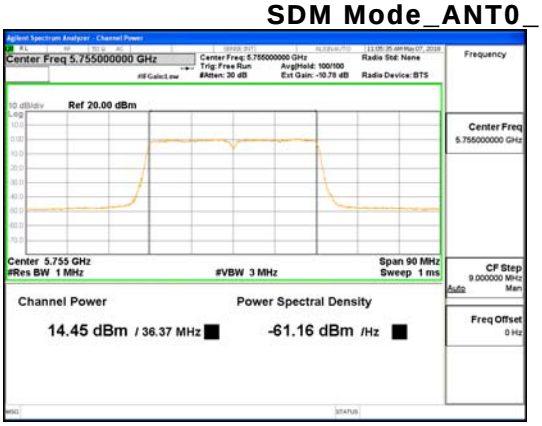
SDM Mode_ANT3_802.11n_HT40_UNII-1

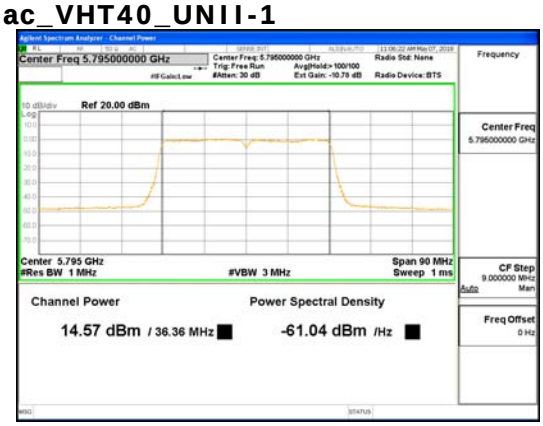




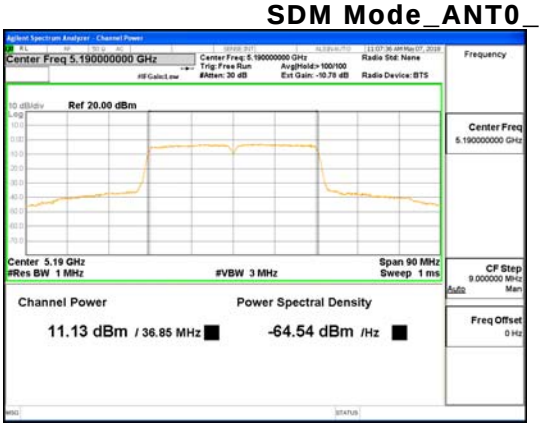
SDM Mode_ANT3_802.11n_HT40_UNII-3

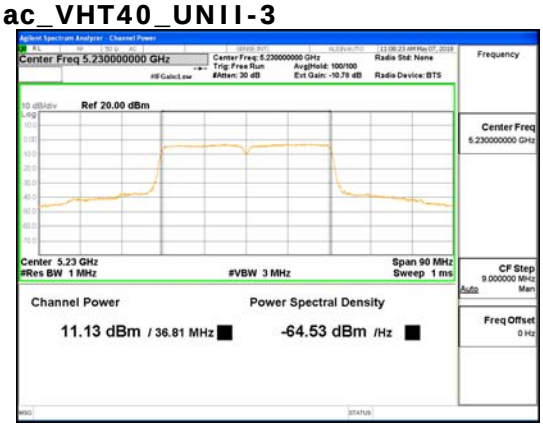
SDM Mode_ANT0_802.11ac_VHT40_UNII-1



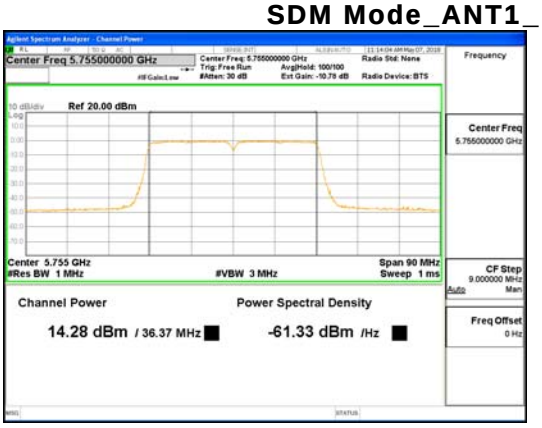


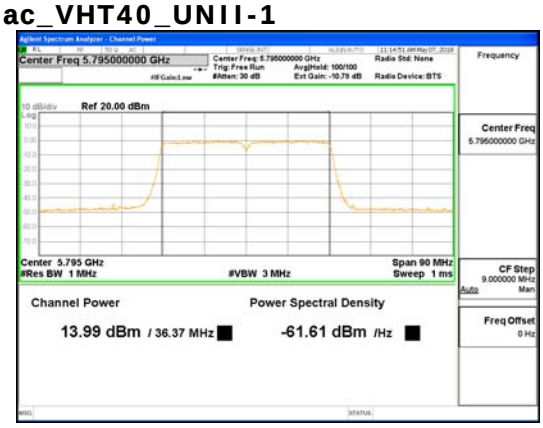
SDM Mode_ANT0_802.11ac_VHT40_UNII-3





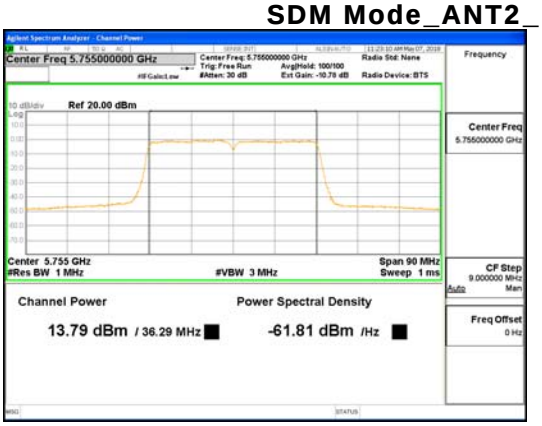
SDM Mode_ANT1_802.11ac_VHT40_UNII-1

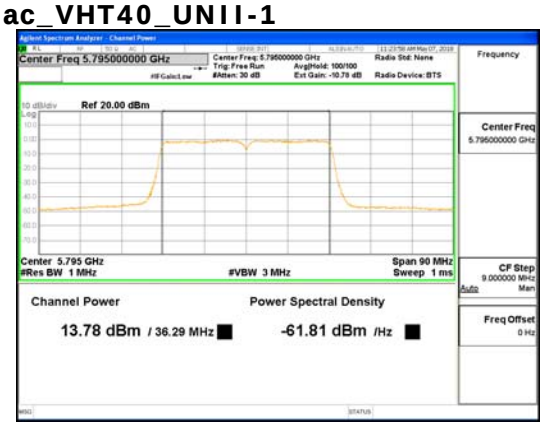




SDM Mode_ANT1_802.11ac_VHT40_UNII-3

SDM Mode_ANT2_802.11ac_VHT40_UNII-1





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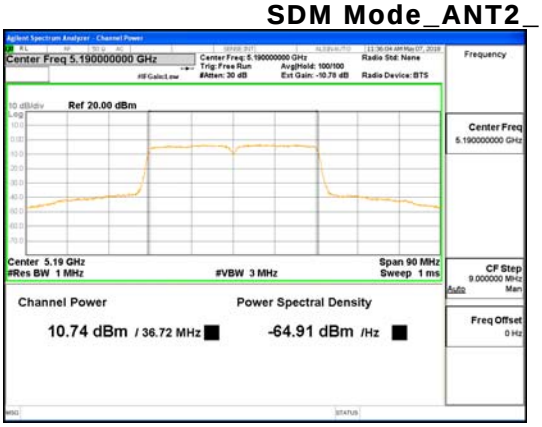
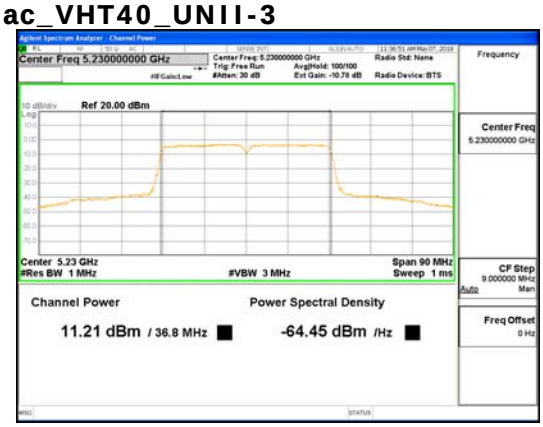
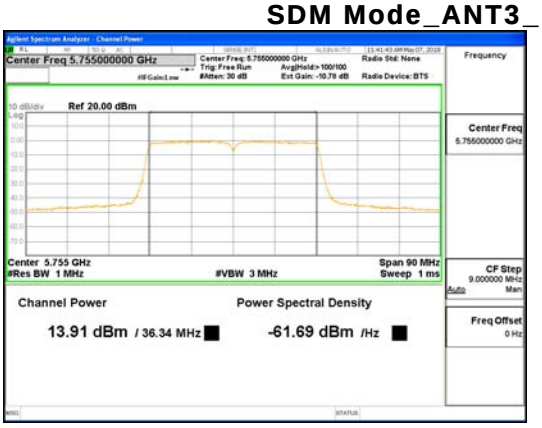
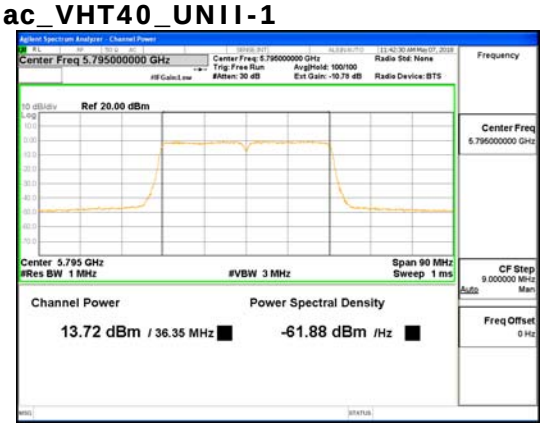




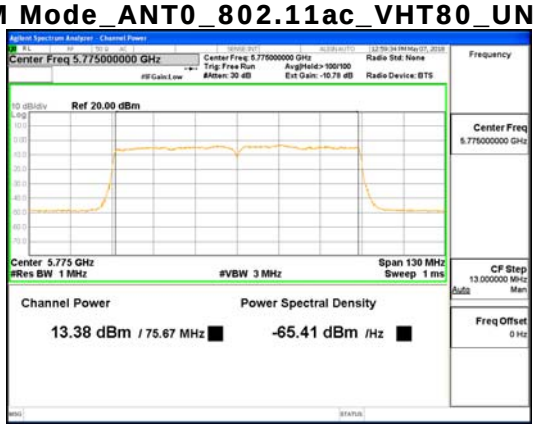
SDM Mode_ANT3_802.11ac_VHT40_UNII-1





SDM Mode_ANT3_802.11ac_VHT40_UNII-3

SDM Mode_ANT0_802.11ac_VHT80_UNII-1

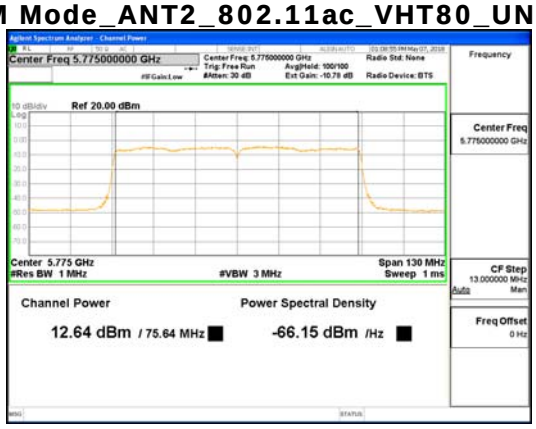


SDM Mode_ANT0_802.11ac_VHT80_UNII-3

SDM Mode_ANT1_802.11ac_VHT80_UNII-1

SDM Mode_ANT1_802.11ac_VHT80_UNII-3

SDM Mode_ANT2_802.11ac_VHT80_UNII-1



SDM Mode_ANT2_802.11ac_VHT80_UNII-3

SDM Mode_ANT3_802.11ac_VHT80_UNII-1

SDM Mode_ANT3_802.11ac_VHT80_UNII-3