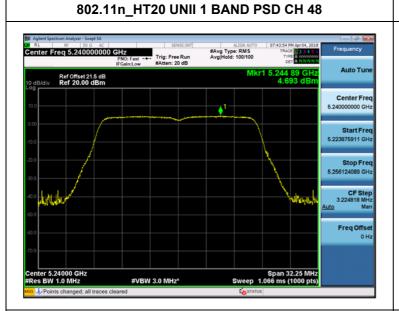


■ TEST Plot for 802.11n_HT20_Ant.3



802.11n_HT20 UNII 2A BAND PSD CH 60

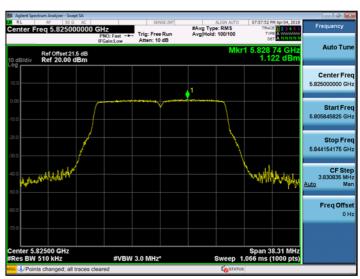
FCC ID: WQTVM3000G



802.11n_HT20 UNII 2C BAND PSD CH 100



802.11n_HT20 UNII 3 BAND PSD CH 165



HCT CO.,LTD. 2 7 7 / 495 F-TP22-03 (Rev.00)



FCC ID: WQTVM3000G

Ant.0 ■ TEST RESULTS

Conducted Power Density Measurements

Conducted Fower Density Measurements										
			Test Result							
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail			
5180	36		3.597	0.065	3.66		Pass			
5200	40		3.720	0.065	3.78	17	Pass			
5240	48		4.005	0.065	4.07		Pass			
5260	52		2.270	0.065	2.33		Pass			
5300	60	802.11ac	2.339	0.065	2.40	11	Pass			
5320	64	_VHT20	2.183	0.065	2.25		Pass			
5500	100	(SISO)	2.213	0.065	2.28		Pass			
5600	120		1.740	0.065	1.80	11	Pass			
5720	144		1.173	0.065	1.24		Pass			
5745	149		0.393	0.065	0.46		Pass			
5785	157		0.951	0.065	1.02	30	Pass			
5825	165		0.641	0.065	0.71		Pass			

F-TP22-03 (Rev.00) 2 7 8 / 495 **HCT CO.,LTD.**



FCC ID: WQTVM3000G

Ant.1 ■ TEST RESULTS

Conducted Power Density Measurements

Conducted Fower Density Measurements									
			Test Result						
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail		
5180	36		3.849	0.065	3.91		Pass		
5200	40		3.969	0.065	4.03	17	Pass		
5240	48		4.189	0.065	4.25		Pass		
5260	52		2.474	0.065	2.54	11	Pass		
5300	60	802.11ac	2.686	0.065	2.75		Pass		
5320	64	_VHT20	2.719	0.065	2.78		Pass		
5500	100	(SISO)	3.013	0.065	3.08		Pass		
5600	120	(3130)	3.063	0.065	3.13	11	Pass		
5720	144		2.142	0.065	2.21		Pass		
5745	149		0.955	0.065	1.02		Pass		
5785	157		1.195	0.065	1.26	30	Pass		
5825	165		1.424	0.065	1.49		Pass		

F-TP22-03 (Rev.00) 2 7 9 / 495 **HCT CO.,LTD.**



FCC ID: WQTVM3000G

Ant.2 ■ TEST RESULTS

Conducted Power Density Measurements

	Conducted Power Density Measurements										
			Test Result								
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail				
5180	36		3.804	0.065	3.87		Pass				
5200	40		3.391	0.065	3.46	17	Pass				
5240	48		3.900	0.065	3.96		Pass				
5260	52		2.024	0.065	2.09		Pass				
5300	60	802.11ac	1.993	0.065	2.06	11	Pass				
5320	64	_VHT20	2.260	0.065	2.32		Pass				
5500	100	(SISO)	1.533	0.065	1.60		Pass				
5600	120		1.705	0.065	1.77	11	Pass				
5720	144		1.261	0.065	1.33		Pass				
5745	149		0.487	0.065	0.55		Pass				
5785	157		1.000	0.065	1.06	30	Pass				
5825	165		1.279	0.065	1.34		Pass				

F-TP22-03 (Rev.00) 2 8 0 / 495 **HCT CO.,LTD.**



FCC ID: WQTVM3000G

Ant.3 ■ TEST RESULTS

Conducted Power Density Measurements

	Conducted Power Density Measurements										
			Test Result								
Frequency (MHz)	Channel No.	Mode	Measured Power Density	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle	Limit (dBm)	Pass/Fail				
			(dBm)		Factor						
5180	36		4.001	0.065	4.07		Pass				
5200	40		4.103	0.065	4.17	17	Pass				
5240	48		4.408	0.065	4.47		Pass				
5260	52		2.534	0.065	2.60	11	Pass				
5300	60	902 4400	2.704	0.065	2.77		Pass				
5320	64	802.11ac _VHT20	2.903	0.065	2.97		Pass				
5500	100	(SISO)	2.117	0.065	2.18		Pass				
5600	120	(3130)	1.841	0.065	1.91	11	Pass				
5720	144		1.344	0.065	1.41		Pass				
5745	149		1.056	0.065	1.12		Pass				
5785	157		1.268	0.065	1.33	30	Pass				
5825	165		1.415	0.065	1.48		Pass				

F-TP22-03 (Rev.00) 2 8 1 / 495 **HCT CO.,LTD.**



FCC ID: WQTVM3000G

■ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3

■ TEST RESULTS

Conducted Power Density Measurements

Eroguenov	Channal		Test Result				
Frequency (MHz)	Channel No.	Mode	Measured Power	Limit (dBm)	Pass/Fail		
(1411 12)	140.		Density (dBm)				
5180	36		9.90		Pass		
5200	40		9.89	14.98	Pass		
5240	48		10.21		Pass		
5260	52		8.41	8.98	Pass		
5300	60	000.44	8.52		Pass		
5320	64	802.11ac	8.61		Pass		
5500	100	_VHT20	8.32		Pass		
5600	120	(MIMO)	8.19	8.98	Pass		
5720	144		7.57		Pass		
5745	149		6.81		Pass		
5785	157	-	7.19	27.98	Pass		
5825	165		7.28		Pass		

F-TP22-03 (Rev.00) 2 8 2 / 495 **HCT CO.,LTD.**



■ TEST Plot for 802.11ac_VHT20_Ant.0

802.11ac_VHT20 UNII 1 BAND PSD CH 48

nter Freq 5.240000000 GHz #Avg Type: RMS AvgiHold: 100/100 Ref Offset 21.5 dB Ref 20.00 dBm #VBW 3.0 MHz*

802.11ac_VHT20 UNII 2A BAND PSD CH 60

FCC ID: WQTVM3000G



802.11ac_VHT20 UNII 2C BAND PSD CH 100



802.11ac_VHT20 UNII 3 BAND PSD CH 157



HCT CO.,LTD. 2 8 3 / 495 F-TP22-03 (Rev.00)



FCC ID: WQTVM3000G

■ TEST Plot for 802.11ac_VHT20_Ant.1

802.11ac_VHT20 UNII 1 BAND PSD CH 48

| Marie | Septemble | Marie |

802.11ac_VHT20 UNII 2A BAND PSD CH 64



802.11ac_VHT20 UNII 2C BAND PSD CH 120



802.11ac_VHT20 UNII 3 BAND PSD CH 165



F-TP22-03 (Rev.00) 2 8 4 / 495 **HCT CO.,LTD.**



FCC ID: WQTVM3000G

■ TEST Plot for 802.11ac_VHT20_Ant.2

802.11ac_VHT20 UNII 1 BAND PSD CH 48



802.11ac_VHT20 UNII 2A BAND PSD CH 64



802.11ac_VHT20 UNII 2C BAND PSD CH 120



802.11ac_VHT20 UNII 3 BAND PSD CH 165



F-TP22-03 (Rev.00) 2 8 5 / 495 **HCT CO.,LTD.**



■ TEST Plot for 802.11ac_VHT20_Ant.3

802.11ac_VHT20 UNII 1 BAND PSD CH 48

#Avg Type: RMS AvgiHold: 100/100 Ref Offset 21.5 dB Ref 20.00 dBm #VBW 3.0 MHz*

802.11ac_VHT20 UNII 2A BAND PSD CH 64

FCC ID: WQTVM3000G



802.11ac_VHT20 UNII 2C BAND PSD CH 100



802.11ac_VHT20 UNII 3 BAND PSD CH 165



HCT CO.,LTD. 2 8 6 / 495 F-TP22-03 (Rev.00)

FCC ID: WQTVM3000G

Ant.0 ■ TEST RESULTS

Conducted Power Density Measurements

					Test Result		
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38		-6.458	0.433	-6.03	4=	Pass
5230	46		-6.147	0.433	-5.71	17	Pass
5270	54		-5.208	0.433	-4.78	11	Pass
5310	62	802.11n	-5.001	0.433	-4.57		Pass
5510	102	_HT40	-5.339	0.433	-4.91		Pass
5590	118	(SISO)	0.634	0.433	1.07	44	Pass
5710	142		-1.173	0.433	-0.74	11	Pass
5755	151		-3.729	0.433	-3.30	20	Pass
5795	159		-3.598	0.433	-3.17	30	Pass

Ant.1 ■ TEST RESULTS

	Conducted Fower Density Weasurements										
			Test Result								
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle	Limit (dBm)	Pass/Fail				
					Factor						
5190	38		-6.013	0.433	-5.58	17	Pass				
5230	46		-5.390	0.433	-4.96	17	Pass				
5270	54		-4.316	0.433	-3.88		Pass				
5310	62	802.11n	-4.131	0.433	-3.70	11	Pass				
5510	102	_HT40	-4.462	0.433	-4.03		Pass				
5590	118	(SISO)	0.440	0.433	0.87	11	Pass				
5710	142		-0.464	0.433	-0.03	11	Pass				
5755	151		-3.552	0.433	-3.12	30	Pass				
5795	159		-3.296	0.433	-2.86	30	Pass				

FCC ID: WQTVM3000G

Ant.2 ■ TEST RESULTS

Conducted Power Density Measurements

		-	laactoa i circi	,					
				Test Result					
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail		
5190	38		-6.454	0.433	-6.02	4-	Pass		
5230	46		-6.288	0.433	-5.86	17	Pass		
5270	54		-4.921	0.433	-4.49		Pass		
5310	62	802.11n	-4.944	0.433	-4.51	11	Pass		
5510	102	_HT40	-5.767	0.433	-5.33		Pass		
5590	118	(SISO)	-0.465	0.433	-0.03	44	Pass		
5710	142		-1.205	0.433	-0.77	11	Pass		
5755	151		-4.165	0.433	-3.73	30	Pass		
5795	159		-4.327	0.433	-3.89	30	Pass		

Ant.3 ■ TEST RESULTS

			ducted i owei	Density Measu					
				Test Result					
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail		
5190	38		-5.207	0.433	-4.77		Pass		
						17			
5230	46		-4.661	0.433	-4.23		Pass		
5270	54		-3.700	0.433	-3.27		Pass		
5310	62	802.11n	-3.891	0.433	-3.46	11	Pass		
5510	102	_HT40	-4.454	0.433	-4.02		Pass		
5590	118	(SISO)	1.190	0.433	1.62	11	Pass		
5710	142		0.026	0.433	0.46	11	Pass		
5755	151		-2.997	0.433	-2.56	30	Pass		
5795	159		-3.094	0.433	-2.66	30	Pass		



FCC ID: WQTVM3000G

■ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3

■ TEST RESULTS

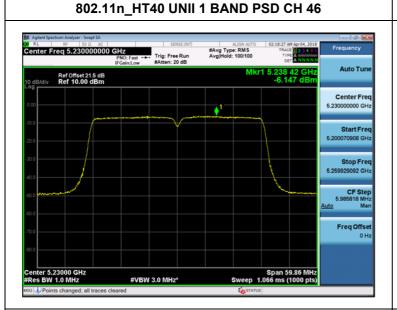
Conducted Power Density Measurements

Eroguenov	Channel		Test Result					
Frequency (MHz)	No.	Mode	Measured Power Density (dBm)	Limit (dBm)	Pass/Fail			
5190	38		0.44	44.00	Pass			
5230	46		0.86	14.98	Pass			
5270	54	1.94		Pass				
5310	62	802.11n	1.98	8.98	Pass			
5510	102	_HT40	1.47		Pass			
5590	118	(MIMO)	6.92	8.98	Pass			
5710	142		5.76		Pass			
5755	151		2.85	27.98	Pass			
5795	159		2.89	27.30	Pass			

F-TP22-03 (Rev.00) 2 8 9 / 495 **HCT CO.,LTD.**



■ TEST Plot for 802.11n_HT40_Ant.0



802.11n_HT40 UNII 2A BAND PSD CH 62

FCC ID: WQTVM3000G



802.11n_HT40 UNII 2C BAND PSD CH 118



802.11n_HT40 UNII 3 BAND PSD CH 159



HCT CO.,LTD. 2 9 0 / 495 F-TP22-03 (Rev.00)



FCC ID: WQTVM3000G

■ TEST Plot for 802.11n_HT40_Ant.1

802.11n_HT40 UNII 1 BAND PSD CH 46



802.11n_HT40 UNII 2A BAND PSD CH 62



802.11n_HT40 UNII 2C BAND PSD CH 118



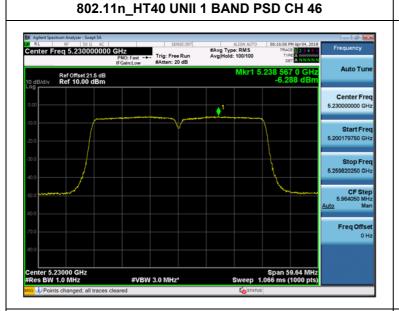
802.11n_HT40 UNII 3 BAND PSD CH 159



F-TP22-03 (Rev.00) 2 9 1 / 495 **HCT CO.,LTD.**

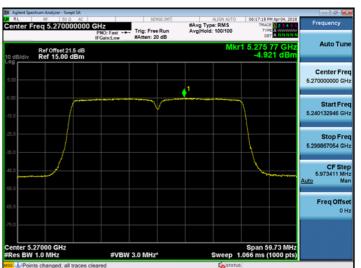


■ TEST Plot for 802.11n_HT40_Ant.2



802.11n_HT40 UNII 2A BAND PSD CH 54

FCC ID: WQTVM3000G



802.11n_HT40 UNII 2C BAND PSD CH 118



802.11n_HT40 UNII 3 BAND PSD CH 151



HCT CO.,LTD. 2 9 2 / 495 F-TP22-03 (Rev.00)



FCC ID: WQTVM3000G

■ TEST Plot for 802.11n_HT40_Ant.3

802.11n_HT40 UNII 1 BAND PSD CH 46



802.11n_HT40 UNII 2A BAND PSD CH 54



802.11n_HT40 UNII 2C BAND PSD CH 118



802.11n_HT40 UNII 3 BAND PSD CH 151



F-TP22-03 (Rev.00) 2 9 3 / 495 **HCT CO.,LTD.**

FCC ID: WQTVM3000G

Ant.0 ■ TEST RESULTS

Conducted Power Density Measurements

			uuotou i oiioi					
			Test Result					
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail	
5190	38		-6.325	0.130	-6.19	17	Pass	
5230	46		-6.133	0.130	-6.00		Pass	
5270	54		-4.960	0.130	-4.83	11	Pass	
5310	62	802.11ac	-4.979	0.130	-4.85		Pass	
5510	102	_VHT40	-5.940	0.130	-5.81		Pass	
5590	118	_**************************************	-0.006	0.130	0.12	11	Pass	
5710	142		-0.585	0.130	-0.45	<u> </u>	Pass	
5755	151		-3.982	0.130	-3.85	20	Pass	
5795	159		-3.809	0.130	-3.68	30	Pass	

Ant.1 ■ TEST RESULTS

	Conducted Power Density Measurements										
				Test Result							
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail				
5190	38		-5.722	0.130	-5.59	4=	Pass				
5230	46		-5.477	0.130	-5.35	17	Pass				
5270	54		-4.408	0.130	-4.28	11	Pass				
5310	62	802.11ac	-4.329	0.130	-4.20		Pass				
5510	102	_VHT40	-5.370	0.130	-5.24		Pass				
5590	118		0.661	0.130	0.79	11	Pass				
5710	142		-0.363	0.130	-0.23		Pass				
5755	151		-3.180	0.130	-3.05	30	Pass				
5795	159		-3.134	0.130	-3.00	30	Pass				

Ant.2

■ TEST RESULTS

Conducted Power Density Measurements

FCC ID: WQTVM3000G

			Test Result					
Frequency (MHz)	Channel No.	Mode	Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail	
5190	38	802.11ac VHT40	-6.273	0.130	-6.14	17	Pass	
5230	46		-6.096	0.130	-5.97		Pass	
5270	54		-4.996	0.130	-4.87	11	Pass	
5310	62		-4.784	0.130	-4.65		Pass	
5510	102		-5.958	0.130	-5.83	11	Pass	
5590	118		-0.497	0.130	-0.37		Pass	
5710	142		-1.191	0.130	-1.06		Pass	
5755	151		-4.152	0.130	-4.02	30	Pass	
5795	159		-3.764	0.130	-3.63		Pass	

Ant.3 ■ TEST RESULTS

Conducted Power Density Measurements								
			Test Result					
	Channel		Measured	Duty Cycle	Measured Power	Limit	Pass/Fail	
Frequency	Channel	Mode	Power	Factor	Density(dBm)	(dBm)		
(MHz)	No.		Density	(dB)	+` ′			
			(dBm)		Duty Cycle			
					Factor			
5190	38	802.11ac _VHT40	-5.346	0.130	-5.22	17	Pass	
5230	46		-4.907	0.130	-4.78		Pass	
5270	54		-3.575	0.130	-3.44	11	Pass	
5310	62		-3.470	0.130	-3.34		Pass	
5510	102		-4.200	0.130	-4.07	11	Pass	
5590	118		0.521	0.130	0.65		Pass	
5710	142		-0.075	0.130	0.06		Pass	
5755	151		-2.597	0.130	-2.47	30	Pass	
5795	159		-3.047	0.130	-2.92		Pass	



FCC ID: WQTVM3000G

■ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result			
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail	
5190	38	802.11ac _VHT40	0.24	14.98	Pass	
5230	46		0.51		Pass	
5270	54		1.69	8.98	Pass	
5310	62		1.78		Pass	
5510	102		0.81	8.98	Pass	
5590	118		6.33		Pass	
5710	142		5.61		Pass	
5755	151		2.70	27.98	Pass	
5795	159		2.72		Pass	

F-TP22-03 (Rev.00) 2 9 6 / 495 **HCT CO.,LTD.**