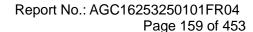
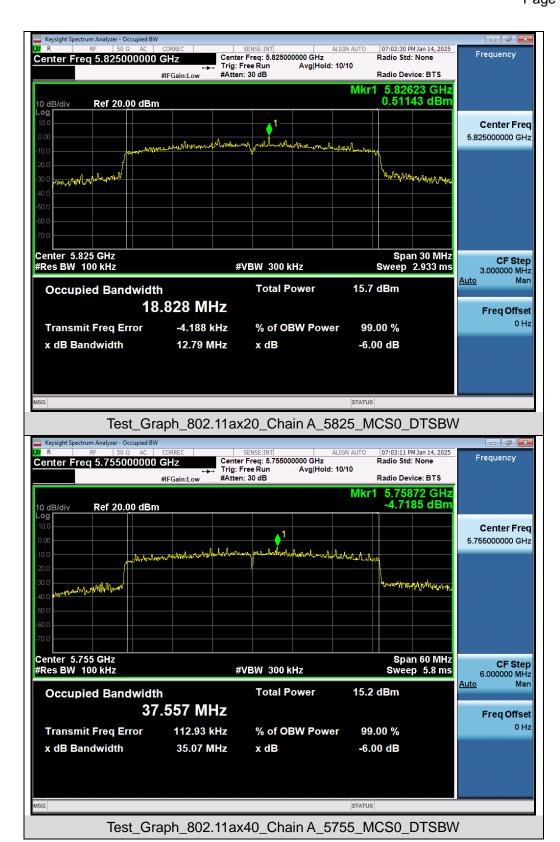
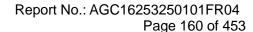


Web: http://www.agccert.com/

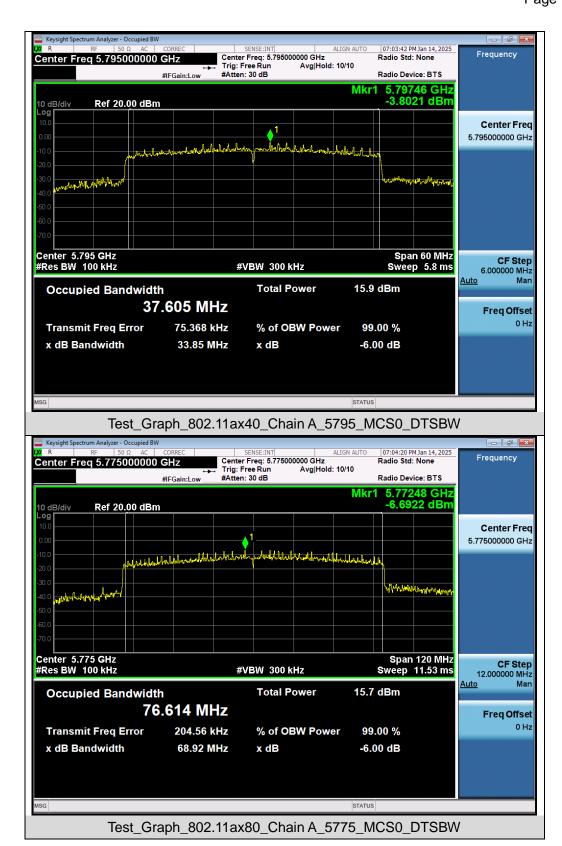


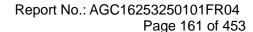




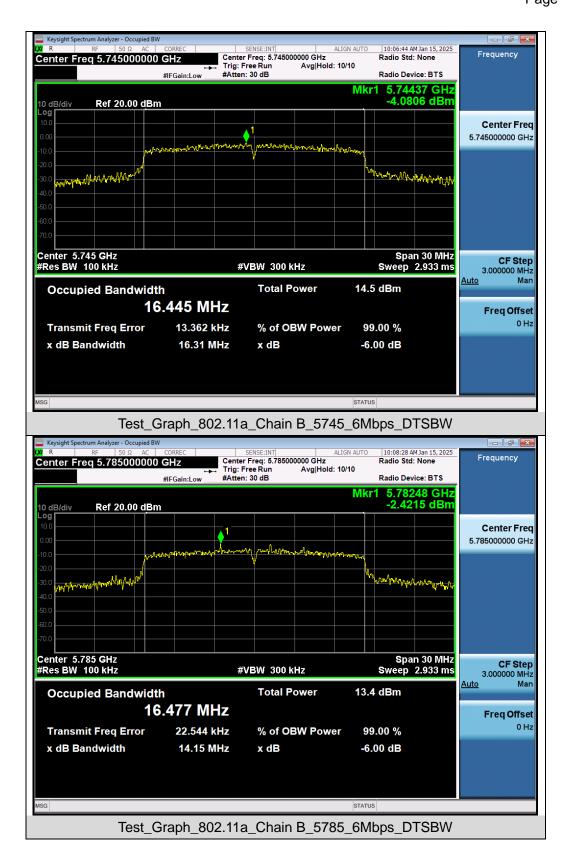


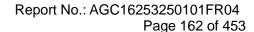




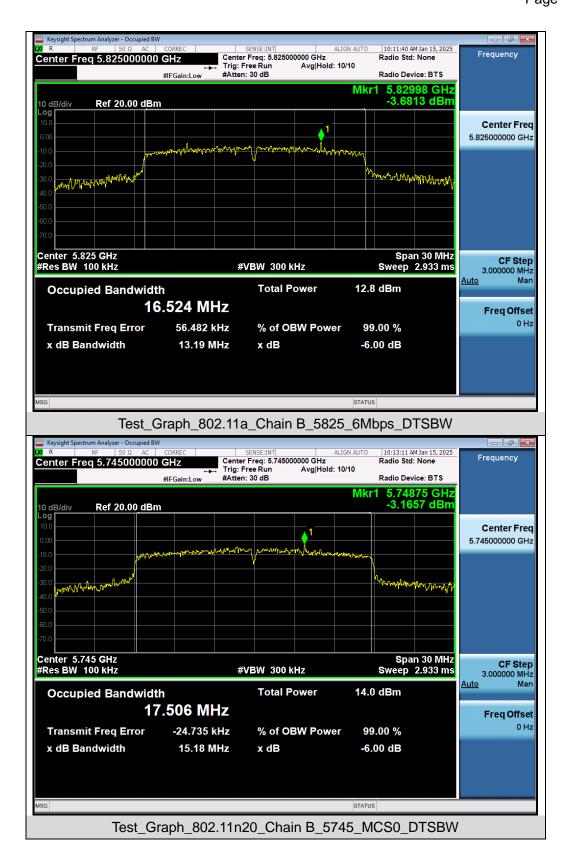


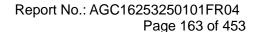




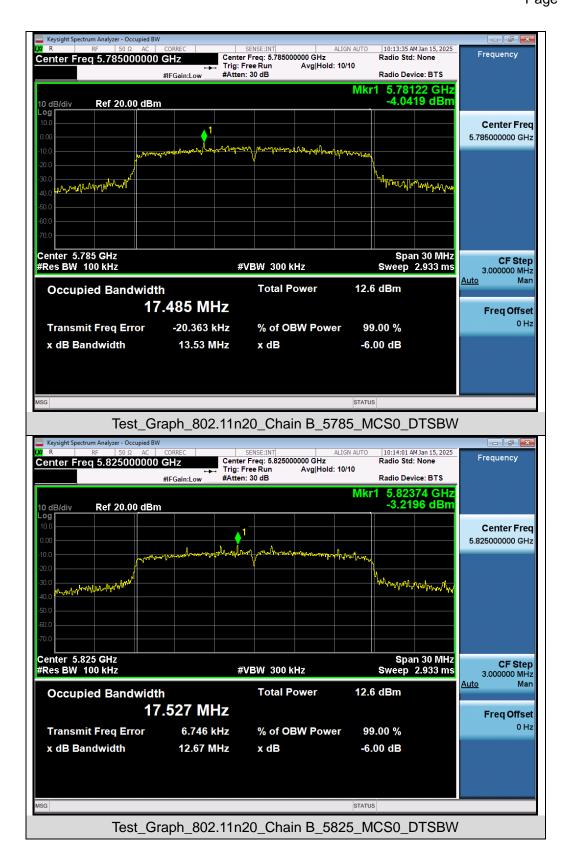


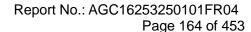




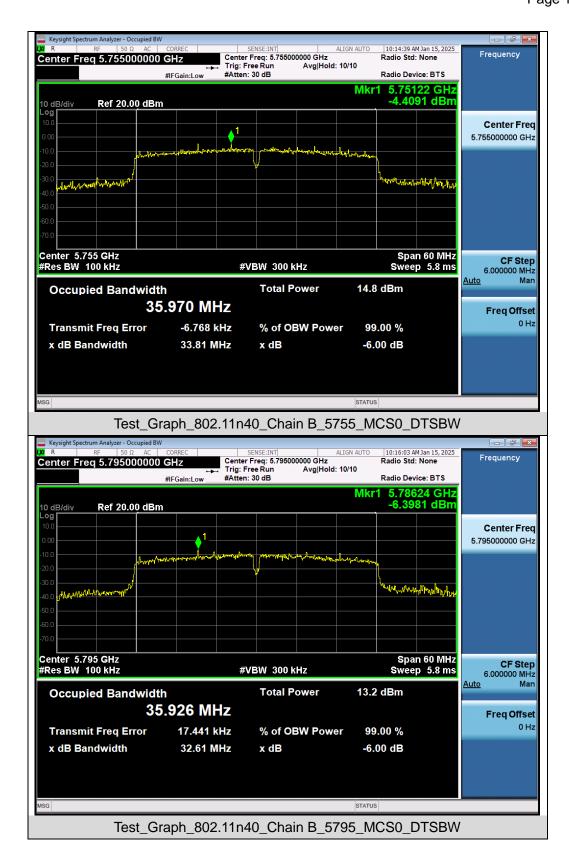


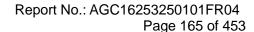




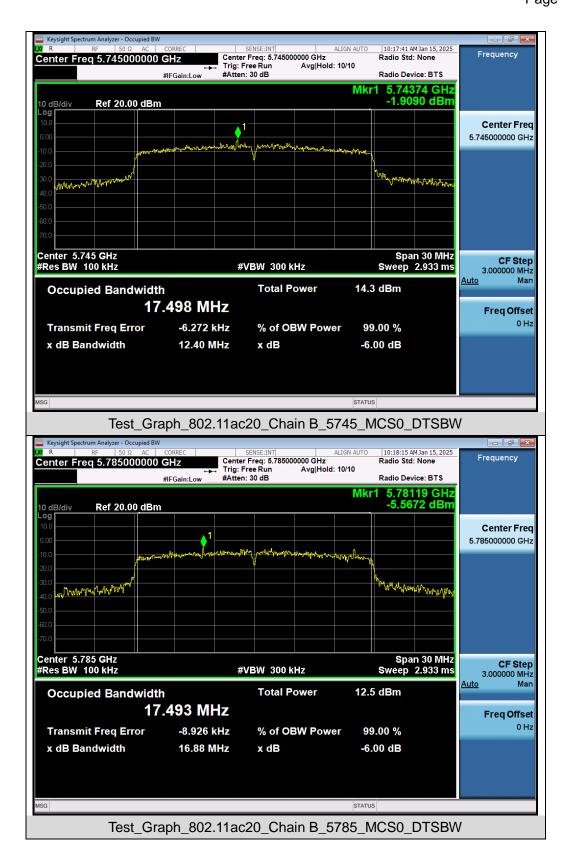


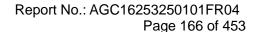




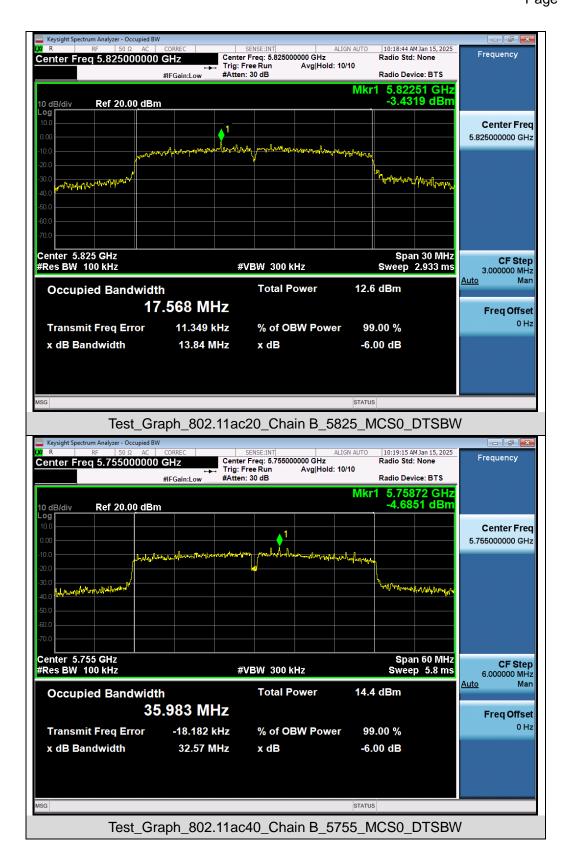


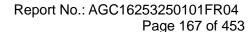




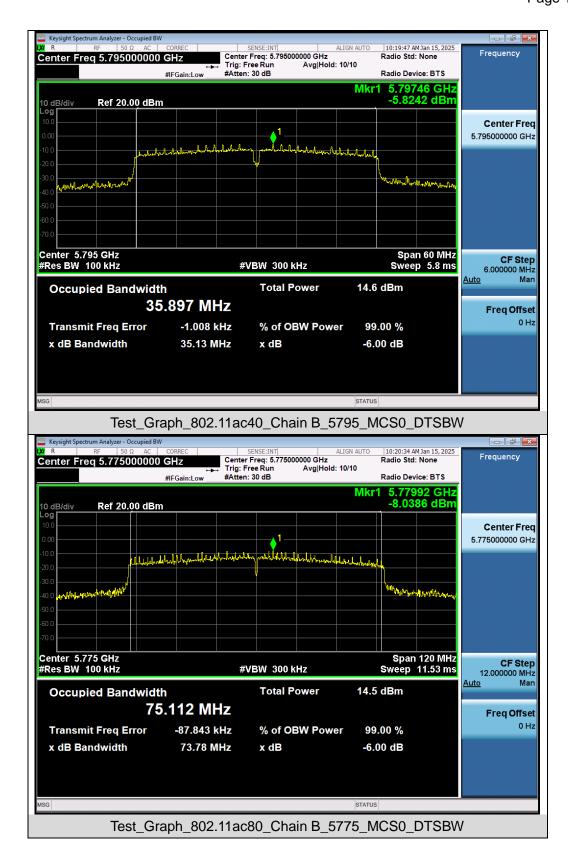


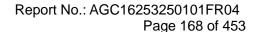




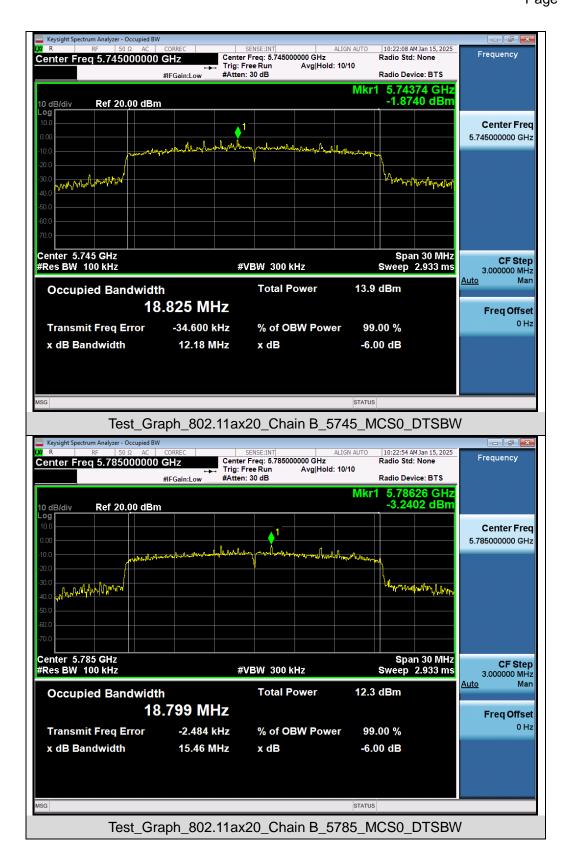


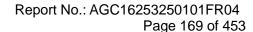




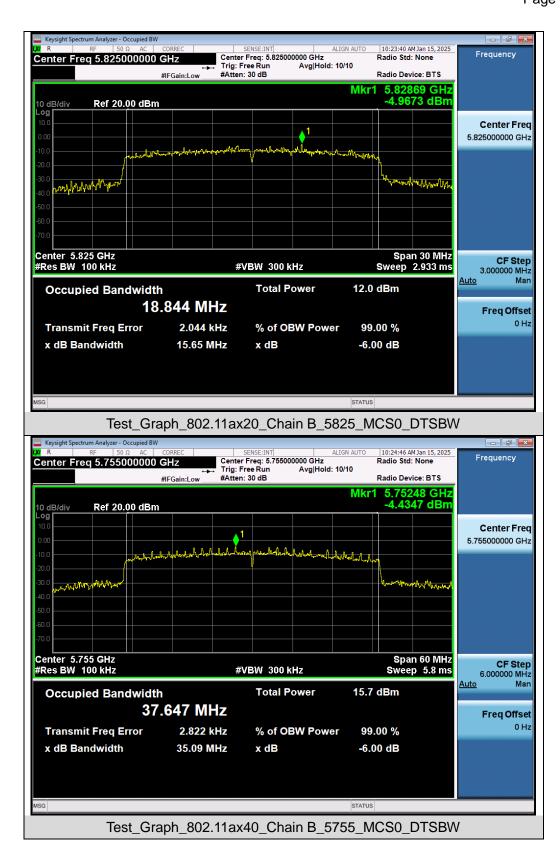


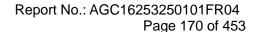




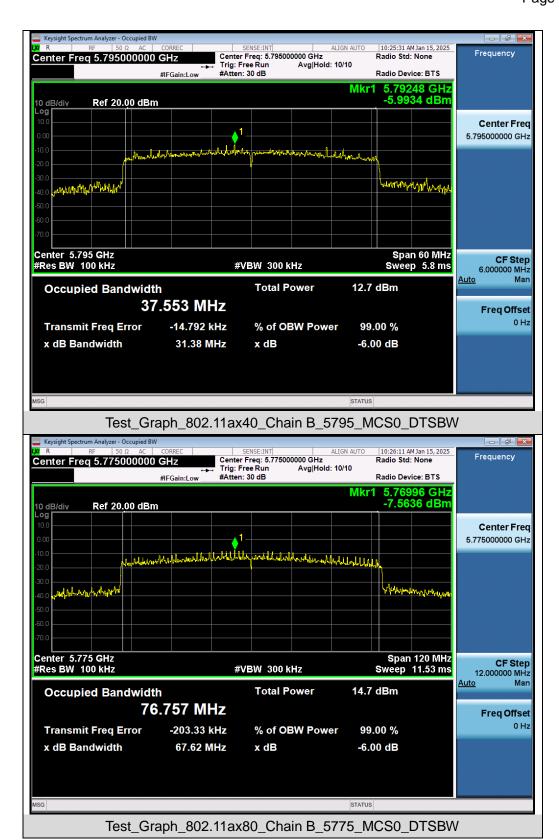


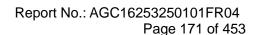














9. Power Spectral Density Measurement

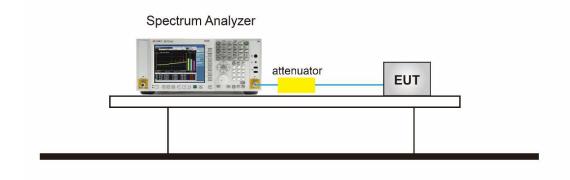
9.1 Provisions Applicable

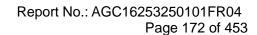
Operation Band	EUT Category		LIMIT		
		Outdoor Access Point	17dBm/ MHz		
U-NII-1		Fixed point-to-point Access Point	17dBm/ MHz		
0-1411-1		Indoor Access Point	17dBm/ MHz		
	\boxtimes	Client devices	11dBm/ MHz		
U-NII-2A		/	11dBm/ MHz		
U-NII-2C	1		-2C /		11dBm/ MHz
U-NII-3	II-3 / 30 dBm/500kHz		30 dBm/500kHz		

9.2 Measurement Procedure

- Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- 2. Span was set to encompass the entire 26dB EBW of the signal.
- 3. RBW = 1MHz.
- 4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
- 5. Set VBW≥[3×RBW].
- 6. Sweep Time=Auto couple.
- 7. Detector function=RMS (i.e., power averaging).
- 8. Trace average at least 100 traces in power averaging (rms) mode.
- 9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor 10*log(500kHz/100kHz) = 6.99 dB to the measured result.
- 10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 11. Add [10 log (1/D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.
- 12. The final test results have been increased by the duty cycle factor and recorded in the report

9.3 Measurement Setup (Block Diagram of Configuration)

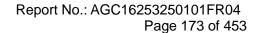






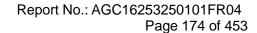
9.4 Measurement Result

Tes	t Data of Conducted	Output Power Density for band 5	i.15-5.25 GHz-Cha	in A
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5180	4.036	11	Pass
802.11a	5200	3.997	11	Pass
	5240	4.148	11	Pass
	5180	2.744	11	Pass
802.11n20	5200	2.768	11	Pass
	5240	2.864	11	Pass
802.11n40	5190	-0.009	11	Pass
802.111140	5230	0.117	11	Pass
	5180	3.043	11	Pass
802.11ac20	5200	2.732	11	Pass
	5240	3.016	11	Pass
000 44 = 40	5190	0.096	11	Pass
802.11ac40	5230	0.101	11	Pass
802.11ac80	5210	-3.143	11	Pass
	5180	2.758	11	Pass
802.11ax20	5200	2.485	11	Pass
	5240	2.814	11	Pass
000 44 5 40	5190	0.135	11	Pass
802.11ax40	5230	0.145	11	Pass
802.11ax80	5210	-2.871	11	Pass



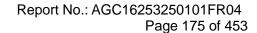


Tes	t Data of Conducted	Output Power Density for band 5	5.15-5.25 GHz-Cha	in B
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5180	4.101	11	Pass
802.11a	5200	3.722	11	Pass
	5240	3.535	11	Pass
	5180	2.683	11	Pass
802.11n20	5200	2.623	11	Pass
	5240	2.511	11	Pass
802.11n40	5190	0.008	11	Pass
802.111140	5230	-0.134	11	Pass
	5180	2.671	11	Pass
802.11ac20	5200	2.733	11	Pass
	5240	2.456	11	Pass
000 44 - 40	5190	-0.008	11	Pass
802.11ac40	5230	-0.181	11	Pass
802.11ac80	5210	-3.379	11	Pass
	5180	2.626	11	Pass
802.11ax20	5200	2.546	11	Pass
	5240	2.543	11	Pass
000 44 5 40	5190	0.100	11	Pass
802.11ax40	5230	-0.379	11	Pass
802.11ax80	5210	-2.916	11	Pass



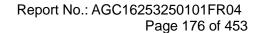


Tes	t Data of Conducted	Output Power Density for band 5	.25-5.35 GHz-Cha	nin A
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5260	4.752	11	Pass
802.11a	5300	4.658	11	Pass
	5320	4.802	11	Pass
	5260	3.045	11	Pass
802.11n20	5300	3.266	11	Pass
	5320	2.975	11	Pass
802.11n40	5270	0.595	11	Pass
002.111140	5310	0.663	11	Pass
	5260	3.076	11	Pass
802.11ac20	5300	3.313	11	Pass
	5320	3.174	11	Pass
802.11ac40	5270	0.534	11	Pass
802.11ac40	5310	0.404	11	Pass
802.11ac80	5290	-2.236	11	Pass
	5260	3.037	11	Pass
802.11ax20	5300	3.316	11	Pass
	5320	3.140	11	Pass
802.11ax40	5270	0.469	11	Pass
o∪∠.11ax 4 U	5310	0.492	11	Pass
802.11ax80	5290	-2.109	11	Pass



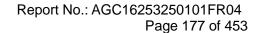


Tes	t Data of Conducted	Output Power Density for band 5	5.25-5.35 GHz-Cha	in B
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5260	3.517	11	Pass
802.11a	5300	3.909	11	Pass
	5320	3.582	11	Pass
	5260	2.412	11	Pass
802.11n20	5300	2.493	11	Pass
	5320	2.459	11	Pass
802.11n40	5270	-0.005	11	Pass
802.111140	5310	-0.047	11	Pass
	5260	2.439	11	Pass
802.11ac20	5300	2.612	11	Pass
	5320	2.496	11	Pass
000 44 40	5270	-0.259	11	Pass
802.11ac40	5310	-0.014	11	Pass
802.11ac80	5290	-3.297	11	Pass
	5260	2.359	11	Pass
802.11ax20	5300	2.408	11	Pass
	5320	2.507	11	Pass
000 11 10	5270	-0.324	11	Pass
802.11ax40	5310	-0.158	11	Pass
802.11ax80	5290	-2.835	11	Pass



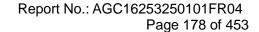


Test	Data of Conducted	Output Power Density for band 5.4	470-5.725 GHz-Ch	nain A
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	4.120	11	Pass
802.11a	5580	1.680	11	Pass
	5700	-0.483	11	Pass
	5500	3.012	11	Pass
802.11n20	5580	0.592	11	Pass
	5700	-2.000	11	Pass
	5510	-0.065	11	Pass
802.11n40	5550	-1.269	11	Pass
	5670	-4.318	11	Pass
	5500	2.873	11	Pass
802.11ac20	5580	0.723	11	Pass
	5700	-1.752	11	Pass
	5510	-0.312	11	Pass
802.11ac40	5550	-1.314	11	Pass
	5670	-4.423	11	Pass
802.11ac80	5530	-6.356	11	Pass
802.118080	5610	-8.863	11	Pass
	5500	2.851	11	Pass
802.11ax20	5580	0.713	11	Pass
	5700	-1.770	11	Pass
	5510	-0.223	11	Pass
802.11ax40	5550	-1.561	11	Pass
	5670	-4.519	11	Pass
802.11ax80	5530	-6.167	11	Pass
002.118X8U	5610	-8.683	11	Pass



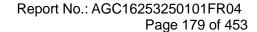


Test Data of Conducted Output Power Density for band 5.470-5.725 GHz-Chain B				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	4.424	11	Pass
802.11a	5600	2.049	11	Pass
	5700	-3.264	11	Pass
	5500	3.202	11	Pass
802.11n20	5600	0.960	11	Pass
	5700	-4.289	11	Pass
	5510	0.005	11	Pass
802.11n40	5590	-0.586	11	Pass
	5670	-5.951	11	Pass
	5500	3.080	11	Pass
802.11ac20	5600	0.726	11	Pass
	5700	-4.599	11	Pass
	5510	0.279	11	Pass
802.11ac40	5590	-0.443	11	Pass
	5670	-5.805	11	Pass
000 4400	5530	-4.256	11	Pass
802.11ac80	5610	-7.223	11	Pass
	5500	2.895	11	Pass
802.11ax20	5600	1.001	11	Pass
	5700	-4.748	11	Pass
	5510	0.073	11	Pass
802.11ax40	5590	-0.326	11	Pass
	5670	-6.038	11	Pass
000 44 5 200	5530	-3.687	11	Pass
802.11ax80	5610	-6.713	11	Pass



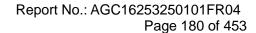


Te	Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain A						
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail		
	5745	-9.712	-2.722	30	Pass		
802.11a	5785	-9.438	-2.448	30	Pass		
	5825	-8.202	-1.212	30	Pass		
	5745	-11.042	-4.052	30	Pass		
802.11n20	5785	-10.452	-3.462	30	Pass		
	5825	-9.193	-2.203	30	Pass		
000 44 = 40	5755	-13.615	-6.625	30	Pass		
802.11n40	5795	-13.071	-6.081	30	Pass		
	5745	-10.852	-3.862	30	Pass		
802.11ac20	5785	-10.337	-3.347	30	Pass		
	5825	-9.131	-2.141	30	Pass		
000 44 40	5755	-13.475	-6.485	30	Pass		
802.11ac40	5795	-12.916	-5.926	30	Pass		
802.11ac80	5775	-16.108	-9.118	30	Pass		
	5745	-11.858	-4.868	30	Pass		
802.11ax20	5785	-11.421	-4.431	30	Pass		
	5825	-10.083	-3.093	30	Pass		
000 14 - 40	5755	-14.235	-7.245	30	Pass		
802.11ax40	5795	-13.472	-6.482	30	Pass		
802.11ax80	5775	-16.276	-9.286	30	Pass		



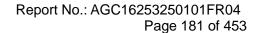


Te	est Data of Co	nducted Output Power	Density for band 5.725	-5.85 GHz-Chain	В
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
	5745	-9.985	-2.995	30	Pass
802.11a	5785	-10.733	-3.743	30	Pass
	5825	-11.420	-4.430	30	Pass
	5745	-10.936	-3.946	30	Pass
802.11n20	5785	-12.422	-5.432	30	Pass
	5825	-12.326	-5.336	30	Pass
000 44 = 40	5755	-13.835	-6.845	30	Pass
802.11n40	5795	-14.913	-7.923	30	Pass
	5745	-11.288	-4.298	30	Pass
802.11ac20	5785	-12.670	-5.680	30	Pass
-	5825	-12.588	-5.598	30	Pass
000 44 = -40	5755	-14.425	-7.435	30	Pass
802.11ac40	5795	-15.175	-8.185	30	Pass
802.11ac80	5775	-17.228	-10.238	30	Pass
	5745	-11.983	-4.993	30	Pass
802.11ax20	5785	-12.981	-5.991	30	Pass
	5825	-13.282	-6.292	30	Pass
000 11 ov 10	5755	-14.738	-7.748	30	Pass
802.11ax40	5795	-15.896	-8.906	30	Pass
802.11ax80	5775	-17.388	-10.398	30	Pass



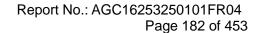


Те	Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail	
	5180	5.724	11	Pass	
802.11n20	5200	5.706	11	Pass	
	5240	5.701	11	Pass	
802.11n40	5190	3.010	11	Pass	
802.11N40	5230	3.004	11	Pass	
	5180	5.871	11	Pass	
802.11ac20	5200	5.743	11	Pass	
	5240	5.755	11	Pass	
000 44 40	5190	3.055	11	Pass	
802.11ac40	5230	2.973	11	Pass	
802.11ac80	5210	-0.249	11	Pass	
	5180	5.703	11	Pass	
802.11ax20	5200	5.526	11	Pass	
	5240	5.691	11	Pass	
000 44 5 40	5190	3.128	11	Pass	
802.11ax40	5230	2.901	11	Pass	
802.11ax80	5210	0.117	11	Pass	



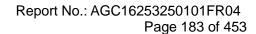


Te	Test Data of Conducted Output Power Density for band 5.25-5.35 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail	
	5180	5.750	11	Pass	
802.11n20	5200	5.907	11	Pass	
	5240	5.735	11	Pass	
000 44 = 40	5190	3.316	11	Pass	
802.11n40	5230	3.333	11	Pass	
	5180	5.779	11	Pass	
802.11ac20	5200	5.987	11	Pass	
	5240	5.859	11	Pass	
000 44 - 40	5190	3.166	11	Pass	
802.11ac40	5230	3.210	11	Pass	
802.11ac80	5210	0.276	11	Pass	
	5180	5.722	11	Pass	
802.11ax20	5200	5.896	11	Pass	
	5240	5.845	11	Pass	
000 44 40	5190	3.101	11	Pass	
802.11ax40	5230	3.189	11	Pass	
802.11ax80	5210	0.553	11	Pass	





Tes	t Data of Conducted	d Output Power Density for band 5	.470-5.725 GHz-N	MIMO
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
	5500	6.118	10.61	Pass
802.11n20	5580	3.790	10.61	Pass
	5700	0.015	10.61	Pass
	5510	2.980	10.61	Pass
802.11n40	5550	2.096	10.61	Pass
	5670	-2.048	10.61	Pass
	5500	5.988	10.61	Pass
802.11ac20	5580	3.735	10.61	Pass
	5700	0.064	10.61	Pass
	5510	3.004	10.61	Pass
802.11ac40	5550	2.154	10.61	Pass
	5670	-2.049	10.61	Pass
802.11ac80	5530	-2.170	10.61	Pass
802.11ac80	5610	-4.956	10.61	Pass
	5500	5.883	10.61	Pass
802.11ax20	5580	3.870	10.61	Pass
	5700	0.002	10.61	Pass
	5510	2.938	10.61	Pass
802.11ax40	5550	2.111	10.61	Pass
	5670	-2.202	10.61	Pass
802.11ax80	5530	-1.742	10.61	Pass
0UZ.118X8U	5610	-4.577	10.61	Pass

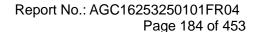




Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11n20	5745	-6.347	-1.227	30	Pass
	5785	-8.667	-0.687	30	Pass
	5825	-8.278	-0.514	30	Pass
802.11n40	5755	-7.911	-2.923	30	Pass
	5795	-11.205	-3.436	30	Pass
802.11ac20	5745	-9.078	-2.424	30	Pass
	5785	-8.656	-0.786	30	Pass
	5825	-8.308	-0.549	30	Pass
802.11ac40	5755	-8.007	-3.009	30	Pass
	5795	-11.232	-3.605	30	Pass
802.11ac80	5775	-11.547	-5.616	30	Pass
802.11ax20	5745	-10.563	-3.761	30	Pass
	5785	-9.373	-1.693	30	Pass
	5825	-9.242	-1.294	30	Pass
802.11ax40	5755	-8.804	-3.732	30	Pass
	5795	-11.976	-4.059	30	Pass
802.11ax80	5775	-11.993	-6.082	30	Pass

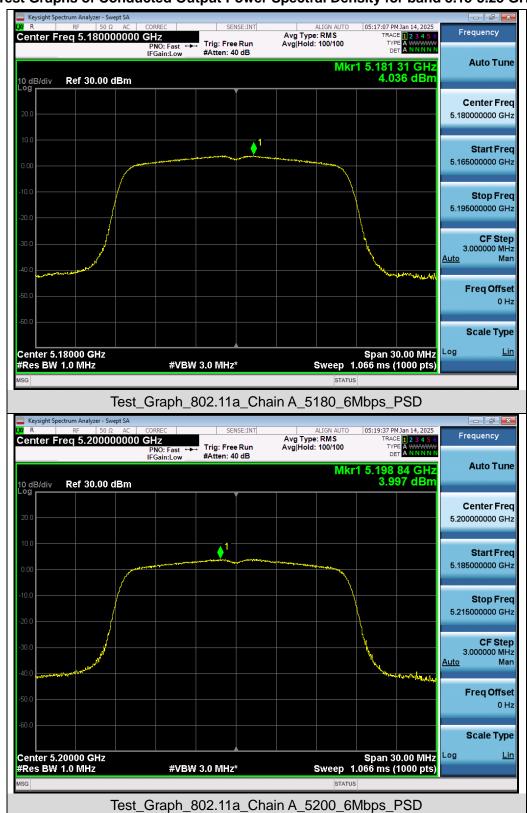
Note:1.Power density(dBm/500kHz) = Power density(dBm/100kHz)+10*log(500/100).

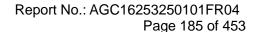
^{2.} The Total PSD(dBm/500kHz) = $10*\log \{10^{(Chain A PSD/10)} + 10^{(Chain B PSD/10)}\}(dBm/500kHz)$.



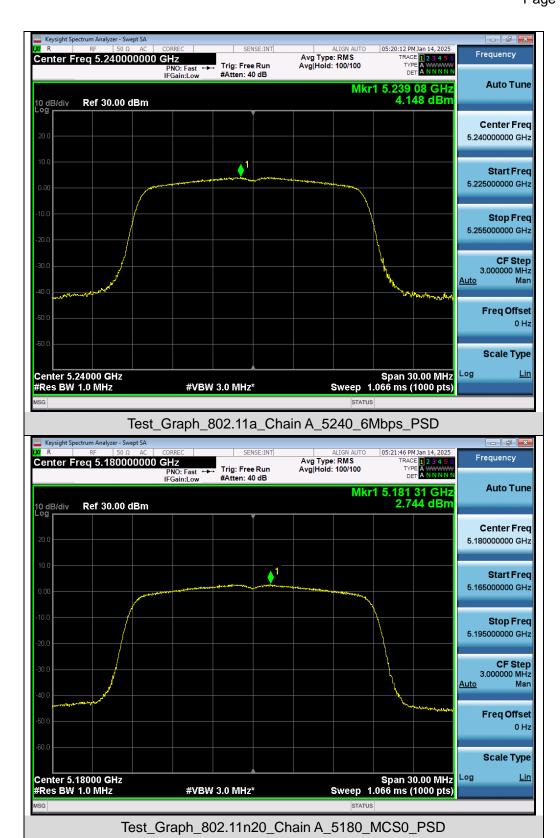


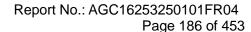
Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



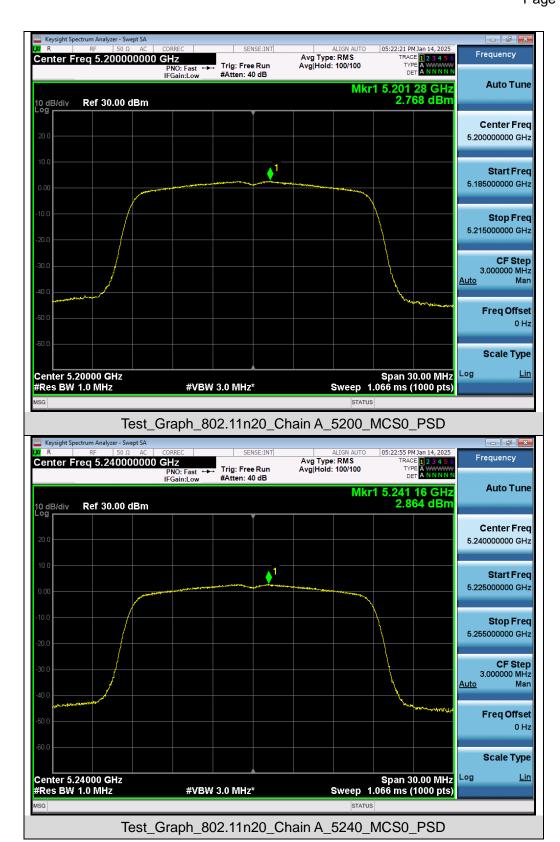


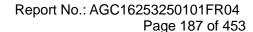






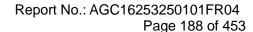






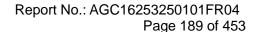




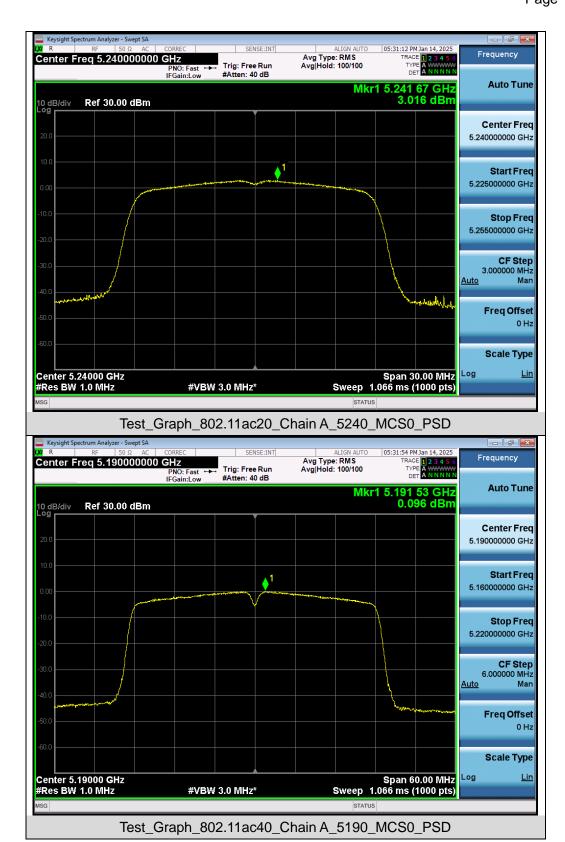


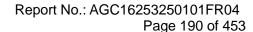






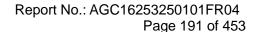






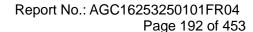






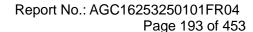






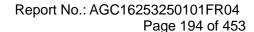




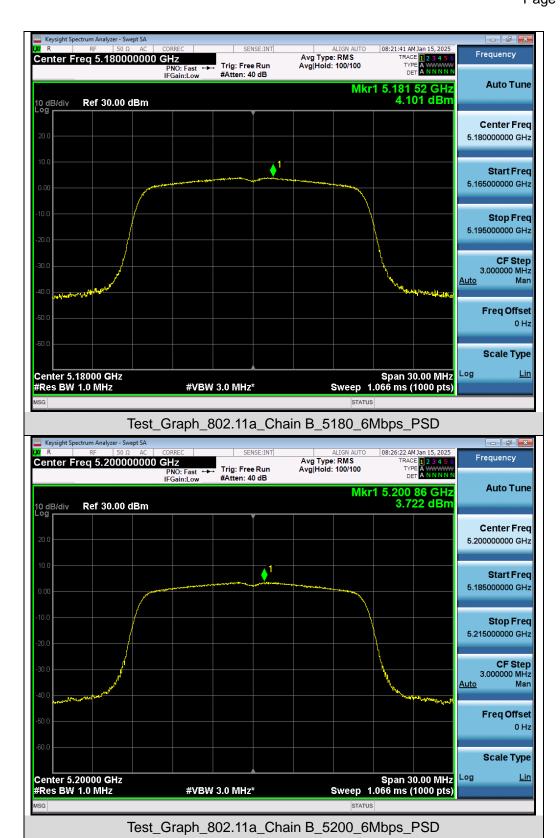


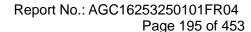




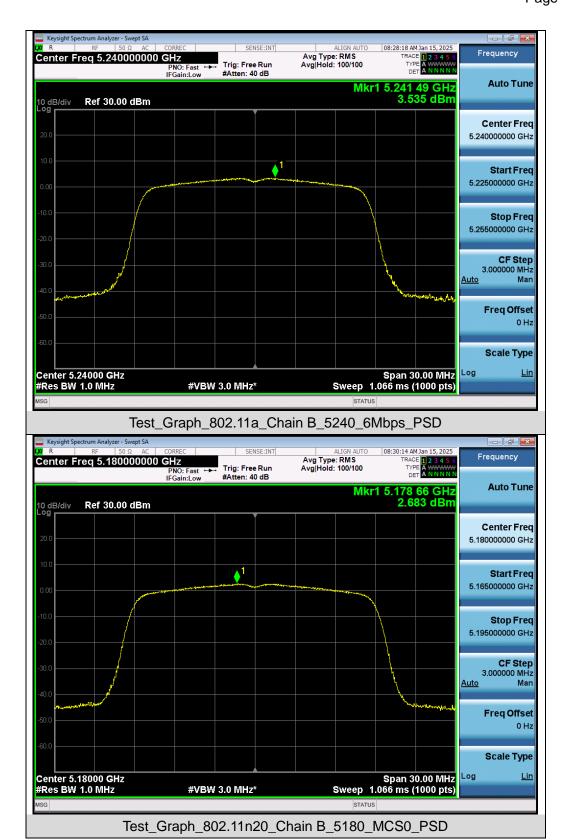


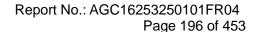




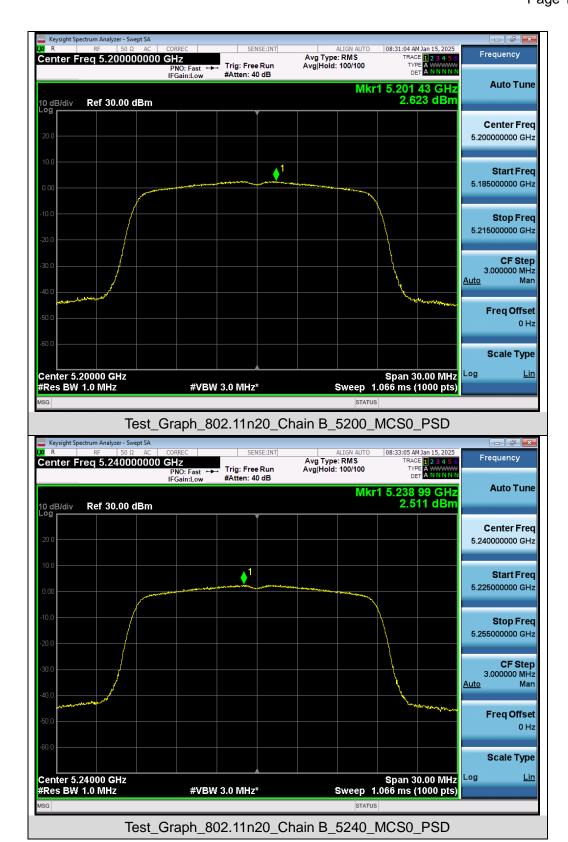


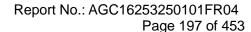




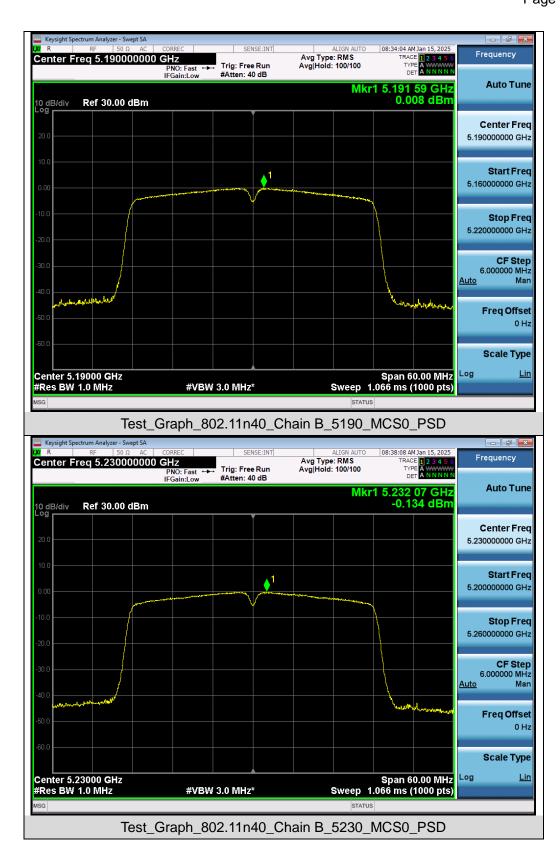


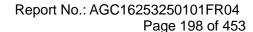




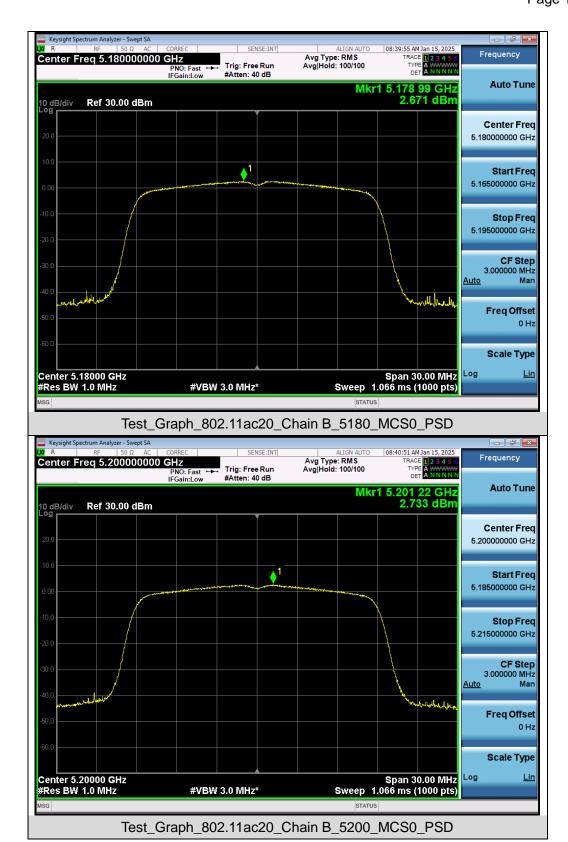


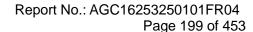






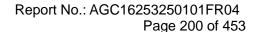






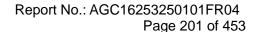






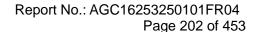




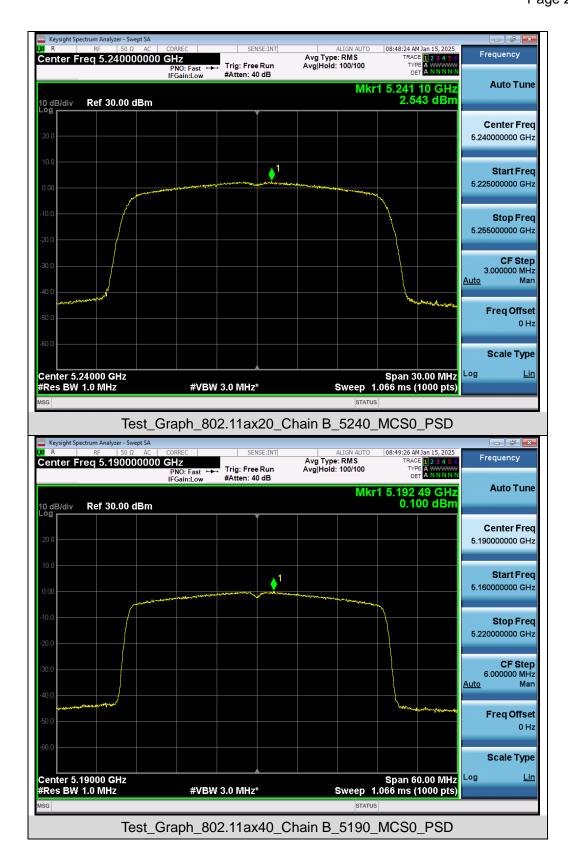


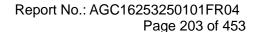






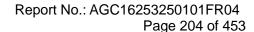














Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz

