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9.1. Block Diagram of Test Setup

Same as section 8.1

9.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150 - 5250
	26 dB Bandwidth	5250 - 5350
	26 dB Bandwidth	5470 - 5725
	Minimum 500 kHz 6 dB Bandwidth	5725 - 5850
	For reporting purposes only	5150 ~ 5825

9.3. Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 26 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 99 % Bandwidth: $\geq 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

(2) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB and 6 dB relative to the maximum level measured in the fundamental emission.

(3) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

9.4. Test Result

Test Mode	Ant.	Freq. (MHz)	OCB (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11A	Ant1	5180	17.947	5170.9511	5188.8981	---	---
	Ant2	5180	17.187	5171.4422	5188.6292	---	---
	Ant1	5200	17.154	5191.4072	5208.5612	---	---
	Ant2	5200	17.205	5191.3299	5208.5349	---	---
	Ant1	5240	16.804	5231.4909	5248.2949	---	---
	Ant2	5240	16.767	5231.6075	5248.3745	---	---
	Ant1	5260	16.864	5251.5262	5268.3902	---	---
	Ant2	5260	16.796	5251.5769	5268.3729	---	---
	Ant1	5280	16.879	5271.5395	5288.4185	---	---
	Ant2	5280	16.826	5271.5842	5288.4102	---	---
	Ant1	5320	17.061	5311.3952	5328.4562	---	---
	Ant2	5320	17.236	5311.2769	5328.5129	---	---
	Ant1	5500	17.117	5491.3821	5508.4991	---	---
	Ant2	5500	17.185	5491.4188	5508.6038	---	---
	Ant1	5580	16.884	5571.4437	5588.3277	---	---
	Ant2	5580	16.754	5571.6131	5588.3671	---	---
	Ant1	5700	17.223	5691.3092	5708.5322	---	---
	Ant2	5700	17.170	5691.2966	5708.4666	---	---

	Ant1	5720	16.765	5711.5926	5728.3576	---	---
	Ant2	5720	16.772	5711.5837	5728.3557	---	---
	Ant1	5720 UNII-2C	13.407	5711.5926	5725	---	---
	Ant2	5720 UNII-2C	13.416	5711.5837	5725	---	---
	Ant1	5720 UNII-3	3.358	5725	5728.3576	---	---
	Ant2	5720 UNII-3	3.356	5725	5728.3557	---	---
	Ant1	5745	17.039	5736.4732	5753.5122	---	---
	Ant2	5745	17.071	5736.5183	5753.5893	---	---
	Ant1	5785	16.816	5776.6402	5793.4562	---	---
	Ant2	5785	16.766	5776.5719	5793.3379	---	---
	Ant1	5825	16.962	5816.4625	5833.4245	---	---
	Ant2	5825	16.426	5816.8119	5833.2379	---	---
11N20MIMO	Ant1	5180	18.195	5170.9211	5189.1161	---	---
	Ant2	5180	18.175	5170.8913	5189.0663	---	---
	Ant1	5200	18.308	5190.8326	5209.1406	---	---
	Ant2	5200	18.470	5190.6622	5209.1322	---	---
	Ant1	5240	18.048	5230.9519	5248.9999	---	---
	Ant2	5240	17.937	5230.9818	5248.9188	---	---
	Ant1	5260	17.933	5250.9709	5268.9039	---	---
	Ant2	5260	18.007	5250.9269	5268.9339	---	---
	Ant1	5280	18.084	5270.9266	5289.0106	---	---
	Ant2	5280	18.011	5271.0007	5289.0117	---	---
	Ant1	5320	18.490	5310.7137	5329.2037	---	---
	Ant2	5320	18.341	5310.6922	5329.0332	---	---
	Ant1	5500	18.266	5490.8337	5509.0997	---	---
	Ant2	5500	18.277	5490.8983	5509.1753	---	---
	Ant1	5580	18.019	5570.9408	5588.9598	---	---
	Ant2	5580	18.065	5570.9711	5589.0361	---	---
	Ant1	5700	18.317	5690.8004	5709.1174	---	---
	Ant2	5700	18.297	5690.7296	5709.0266	---	---
	Ant1	5720	18.039	5710.9594	5728.9984	---	---
	Ant2	5720	17.954	5710.9905	5728.9445	---	---
	Ant1	5720 UNII-2C	14.041	5710.9594	5725	---	---
	Ant2	5720 UNII-2C	14.01	5710.9905	5725	---	---
	Ant1	5720 UNII-3	3.998	5725	5728.9984	---	---
	Ant2	5720 UNII-3	3.944	5725	5728.9445	---	---
	Ant1	5745	18.317	5735.9101	5754.2271	---	---
	Ant2	5745	18.103	5735.9494	5754.0524	---	---
	Ant1	5785	17.890	5776.0091	5793.8991	---	---
	Ant2	5785	18.002	5775.9558	5793.9578	---	---
	Ant1	5825	17.998	5815.9724	5833.9704	---	---
	Ant2	5825	18.010	5815.9912	5834.0012	---	---
11N40MIMO	Ant1	5190	36.639	5171.7413	5208.3803	---	---
	Ant2	5190	36.235	5171.7596	5207.9946	---	---
	Ant1	5230	36.490	5211.7399	5248.2299	---	---
	Ant2	5230	36.201	5211.9301	5248.1311	---	---
	Ant1	5270	36.292	5251.7978	5288.0898	---	---
	Ant2	5270	36.034	5251.9126	5287.9466	---	---
	Ant1	5310	36.381	5291.7111	5328.0921	---	---
	Ant2	5310	36.275	5291.7282	5328.0032	---	---
	Ant1	5510	36.526	5491.7424	5528.2684	---	---
	Ant2	5510	36.237	5491.8411	5528.0781	---	---
	Ant1	5550	36.232	5531.8187	5568.0507	---	---
	Ant2	5550	36.193	5531.8686	5568.0616	---	---
	Ant1	5670	36.609	5651.6644	5688.2734	---	---
	Ant2	5670	36.340	5651.8084	5688.1484	---	---
	Ant1	5710	36.251	5691.8273	5728.0783	---	---
	Ant2	5710	36.075	5691.9381	5728.0131	---	---
	Ant1	5710 UNII-2C	33.173	5691.8273	5725	---	---
	Ant2	5710 UNII-2C	33.062	5691.9381	5725	---	---

	Ant1	5710 UNII-3	3.078	5725	5728.0783	---	---
	Ant2	5710 UNII-3	3.013	5725	5728.0131	---	---
	Ant1	5755	36.419	5736.8020	5773.2210	---	---
	Ant2	5755	36.278	5736.8575	5773.1355	---	---
	Ant1	5795	36.238	5776.7680	5813.0060	---	---
	Ant2	5795	36.090	5776.9401	5813.0301	---	---
11AC20MIMO	Ant1	5180	18.392	5170.7895	5189.1815	---	---
	Ant2	5180	18.303	5170.8654	5189.1684	---	---
	Ant1	5200	18.448	5190.7766	5209.2246	---	---
	Ant2	5200	18.390	5190.7220	5209.1120	---	---
	Ant1	5240	17.964	5230.9728	5248.9368	---	---
	Ant2	5240	17.937	5230.9236	5248.8606	---	---
	Ant1	5260	18.106	5250.8978	5269.0038	---	---
	Ant2	5260	17.939	5251.0129	5268.9519	---	---
	Ant1	5280	17.958	5270.9852	5288.9432	---	---
	Ant2	5280	17.992	5270.9626	5288.9546	---	---
	Ant1	5320	18.306	5310.7941	5329.1001	---	---
	Ant2	5320	18.136	5310.8713	5329.0073	---	---
	Ant1	5500	18.463	5490.8029	5509.2659	---	---
	Ant2	5500	18.408	5490.8382	5509.2462	---	---
	Ant1	5580	17.928	5570.9659	5588.8939	---	---
	Ant2	5580	17.927	5571.0054	5588.9324	---	---
	Ant1	5700	19.017	5690.2095	5709.2265	---	---
	Ant2	5700	18.732	5690.6723	5709.4043	---	---
	Ant1	5720	17.953	5711.0074	5728.9604	---	---
	Ant2	5720	18.021	5710.9562	5728.9772	---	---
	Ant1	5720 UNII-2C	13.993	5711.0074	5725	---	---
	Ant2	5720 UNII-2C	14.044	5710.9562	5725	---	---
	Ant1	5720 UNII-3	3.96	5725	5728.9604	---	---
	Ant2	5720 UNII-3	3.977	5725	5728.9772	---	---
	Ant1	5745	18.212	5735.9825	5754.1945	---	---
	Ant2	5745	18.207	5735.9695	5754.1765	---	---
	Ant1	5785	18.143	5775.8599	5794.0029	---	---
	Ant2	5785	17.961	5775.9772	5793.9382	---	---
	Ant1	5825	18.020	5815.9805	5834.0005	---	---
	Ant2	5825	17.999	5815.9894	5833.9884	---	---
11AC40MIMO	Ant1	5190	36.475	5171.7775	5208.2525	---	---
	Ant2	5190	36.225	5171.8531	5208.0781	---	---
	Ant1	5230	36.022	5211.9524	5247.9744	---	---
	Ant2	5230	36.024	5211.9205	5247.9445	---	---
	Ant1	5270	36.169	5251.8763	5288.0453	---	---
	Ant2	5270	36.228	5251.7968	5288.0248	---	---
	Ant1	5310	36.474	5291.6949	5328.1689	---	---
	Ant2	5310	36.279	5291.7345	5328.0135	---	---
	Ant1	5510	36.366	5491.8205	5528.1865	---	---
	Ant2	5510	36.222	5491.8897	5528.1117	---	---
	Ant1	5550	36.248	5531.9004	5568.1484	---	---
	Ant2	5550	36.118	5531.9882	5568.1062	---	---
	Ant1	5670	36.474	5651.7144	5688.1884	---	---
	Ant2	5670	36.308	5651.7732	5688.0812	---	---
	Ant1	5710	36.123	5691.9231	5728.0461	---	---
	Ant2	5710	36.030	5691.9993	5728.0293	---	---
	Ant1	5710 UNII-2C	33.077	5691.9231	5725	---	---
	Ant2	5710 UNII-2C	33.001	5691.9993	5725	---	---
	Ant1	5710 UNII-3	3.046	5725	5728.0461	---	---
	Ant2	5710 UNII-3	3.029	5725	5728.0293	---	---
	Ant1	5755	36.297	5736.8145	5773.1115	---	---
	Ant2	5755	36.191	5736.8866	5773.0776	---	---
	Ant1	5795	36.163	5776.8732	5813.0362	---	---
	Ant2	5795	36.031	5776.9333	5812.9643	---	---

11AC80MIMO	Ant1	5210	76.480	5171.7681	5248.2481	---	---
	Ant2	5210	76.193	5171.8467	5248.0397	---	---
	Ant1	5290	76.500	5251.6653	5328.1653	---	---
	Ant2	5290	75.804	5251.8630	5327.6670	---	---
	Ant1	5530	76.463	5491.8819	5568.3449	---	---
	Ant2	5530	75.846	5492.2276	5568.0736	---	---
	Ant1	5610	76.163	5571.9281	5648.0911	---	---
	Ant2	5610	75.659	5572.1293	5647.7883	---	---
	Ant1	5690	76.154	5651.8154	5727.9694	---	---
	Ant2	5690	75.825	5651.9838	5727.8088	---	---
	Ant1	5690 UNII-2C	73.185	5651.8154	5725	---	---
	Ant2	5690 UNII-2C	73.016	5651.9838	5725	---	---
	Ant1	5690 UNII-3	2.969	5725	5727.9694	---	---
	Ant2	5690 UNII-3	2.809	5725	5727.8088	---	---
	Ant1	5775	76.081	5736.9119	5812.9929	---	---
	Ant2	5775	75.655	5737.1326	5812.7876	---	---
11AX20MIMO	Ant1	5180	19.032	5170.4614	5189.4934	---	---
	Ant2	5180	19.030	5170.4722	5189.5022	---	---
	Ant1	5200	19.058	5190.4135	5209.4715	---	---
	Ant2	5200	19.095	5190.4204	5209.5154	---	---
	Ant1	5240	19.016	5230.4885	5249.5045	---	---
	Ant2	5240	19.066	5230.4565	5249.5225	---	---
	Ant1	5260	19.091	5250.4379	5269.5289	---	---
	Ant2	5260	19.108	5250.4328	5269.5408	---	---
	Ant1	5280	19.033	5270.4413	5289.4743	---	---
	Ant2	5280	19.095	5270.4043	5289.4993	---	---
	Ant1	5320	19.148	5310.4245	5329.5725	---	---
	Ant2	5320	19.095	5310.4335	5329.5285	---	---
	Ant1	5500	18.986	5490.4785	5509.4645	---	---
	Ant2	5500	19.088	5490.4629	5509.5509	---	---
	Ant1	5580	19.251	5570.3053	5589.5563	---	---
	Ant2	5580	19.076	5570.4227	5589.4987	---	---
	Ant1	5700	19.075	5690.4059	5709.4809	---	---
	Ant2	5700	19.068	5690.4228	5709.4908	---	---
	Ant1	5720	19.100	5710.4357	5729.5357	---	---
	Ant2	5720	19.068	5710.4312	5729.4992	---	---
	Ant1	5720 UNII-2C	14.564	5710.4357	5725	---	---
	Ant2	5720 UNII-2C	14.569	5710.4312	5725	---	---
	Ant1	5720 UNII-3	4.536	5725	5729.5357	---	---
	Ant2	5720 UNII-3	4.499	5725	5729.4992	---	---
	Ant1	5745	19.047	5735.4649	5754.5119	---	---
	Ant2	5745	19.076	5735.4081	5754.4841	---	---
	Ant1	5785	19.129	5775.3984	5794.5274	---	---
	Ant2	5785	19.055	5775.4517	5794.5067	---	---
	Ant1	5825	19.148	5815.4067	5834.5547	---	---
	Ant2	5825	19.074	5815.4526	5834.5266	---	---
11AX40MIMO	Ant1	5190	37.699	5171.1092	5208.8082	---	---
	Ant2	5190	37.515	5171.1766	5208.6916	---	---
	Ant1	5230	37.534	5211.1877	5248.7217	---	---
	Ant2	5230	37.431	5211.1989	5248.6299	---	---
	Ant1	5270	37.713	5251.0899	5288.8029	---	---
	Ant2	5270	37.642	5251.1408	5288.7828	---	---
	Ant1	5310	37.563	5291.2556	5328.8186	---	---
	Ant2	5310	37.424	5291.4259	5328.8499	---	---
	Ant1	5510	37.664	5491.1518	5528.8158	---	---
	Ant2	5510	37.398	5491.3191	5528.7171	---	---
	Ant1	5550	37.670	5531.1842	5568.8542	---	---
	Ant2	5550	37.643	5531.1051	5568.7481	---	---
	Ant1	5670	37.626	5651.1618	5688.7878	---	---
	Ant2	5670	37.556	5651.1382	5688.6942	---	---

	Ant1	5710	37.528	5691.2068	5728.7348	---	---
	Ant2	5710	37.430	5691.2458	5728.6758	---	---
	Ant1	5710_UNII-2C	33.793	5691.2068	5725	---	---
	Ant2	5710_UNII-2C	33.754	5691.2458	5725	---	---
	Ant1	5710_UNII-3	3.735	5725	5728.7348	---	---
	Ant2	5710_UNII-3	3.676	5725	5728.6758	---	---
	Ant1	5755	37.640	5736.1719	5773.8119	---	---
	Ant2	5755	37.555	5736.2085	5773.7635	---	---
	Ant1	5795	37.754	5776.0415	5813.7955	---	---
	Ant2	5795	37.484	5776.1964	5813.6804	---	---
11AX80MIMO	Ant1	5210	77.821	5170.9697	5248.7907	---	---
	Ant2	5210	77.366	5171.0537	5248.4197	---	---
	Ant1	5290	77.831	5250.9879	5328.8189	---	---
	Ant2	5290	77.366	5251.1857	5328.5517	---	---
	Ant1	5530	77.583	5491.1448	5568.7278	---	---
	Ant2	5530	77.513	5491.2329	5568.7459	---	---
	Ant1	5610	77.694	5571.1269	5648.8209	---	---
	Ant2	5610	77.380	5571.2373	5648.6173	---	---
	Ant1	5690	77.775	5651.1041	5728.8791	---	---
	Ant2	5690	77.555	5651.0998	5728.6548	---	---
	Ant1	5690_UNII-2C	73.896	5651.1041	5725	---	---
	Ant2	5690_UNII-2C	73.9	5651.0998	5725	---	---
	Ant1	5690_UNII-3	3.879	5725	5728.8791	---	---
	Ant2	5690_UNII-3	3.655	5725	5728.6548	---	---
	Ant1	5775	77.775	5736.0211	5813.7961	---	---
	Ant2	5775	77.336	5736.2421	5813.5781	---	---

Note: Offset=cable loss + Test system insertion loss

Test Mode	Ant.	Freq. (MHz)	26dB EBW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
11A	Ant1	5180	30.720	5165.240	5195.960	---	---
	Ant2	5180	23.560	5168.720	5192.280	---	---
	Ant1	5200	28.080	5186.360	5214.440	---	---
	Ant2	5200	26.440	5186.160	5212.600	---	---
	Ant1	5240	19.760	5229.640	5249.400	---	---
	Ant2	5240	21.120	5229.280	5250.400	---	---
	Ant1	5260	21.200	5249.480	5270.680	---	---
	Ant2	5260	20.600	5249.760	5270.360	---	---
	Ant1	5280	21.080	5269.240	5290.320	---	---
	Ant2	5280	21.720	5269.040	5290.760	---	---
	Ant1	5320	27.960	5304.720	5332.680	---	---
	Ant2	5320	26.720	5305.400	5332.120	---	---
	Ant1	5500	28.240	5486.800	5515.040	---	---
	Ant2	5500	25.400	5487.200	5512.600	---	---
	Ant1	5580	19.800	5569.920	5589.720	---	---
	Ant2	5580	20.360	5569.600	5589.960	---	---
	Ant1	5700	26.280	5685.200	5711.480	---	---
	Ant2	5700	24.520	5686.680	5711.200	---	---
	Ant1	5720	20.960	5709.440	5730.400	---	---
	Ant2	5720	21.400	5709.400	5730.800	---	---
	Ant1	5720_UNII-2C	15.56	5709.440	5725	---	---
	Ant2	5720_UNII-2C	15.6	5709.400	5725	---	---
	Ant1	5720_UNII-3	5.4	5725	5730.400	---	---
	Ant2	5720_UNII-3	5.8	5725	5730.800	---	---
	Ant1	5745	24.400	5734.080	5758.480	---	---
	Ant2	5745	24.680	5734.200	5758.880	---	---
	Ant1	5785	21.840	5774.040	5795.880	---	---
	Ant2	5785	21.680	5774.600	5796.280	---	---
	Ant1	5825	20.280	5814.880	5835.160	---	---
	Ant2	5825	18.120	5815.920	5834.040	---	---

11N20MIMO	Ant1	5180	27.800	5167.280	5195.080	---	---
	Ant2	5180	29.480	5166.560	5196.040	---	---
	Ant1	5200	30.800	5184.560	5215.360	---	---
	Ant2	5200	29.800	5184.240	5214.040	---	---
	Ant1	5240	23.160	5227.440	5250.600	---	---
	Ant2	5240	21.720	5229.000	5250.720	---	---
	Ant1	5260	21.720	5248.600	5270.320	---	---
	Ant2	5260	22.520	5248.360	5270.880	---	---
	Ant1	5280	22.800	5268.840	5291.640	---	---
	Ant2	5280	21.200	5269.320	5290.520	---	---
	Ant1	5320	33.360	5302.800	5336.160	---	---
	Ant2	5320	27.200	5305.200	5332.400	---	---
	Ant1	5500	28.880	5486.720	5515.600	---	---
	Ant2	5500	31.480	5486.040	5517.520	---	---
	Ant1	5580	22.360	5568.640	5591.000	---	---
	Ant2	5580	21.120	5569.160	5590.280	---	---
	Ant1	5700	25.160	5686.200	5711.360	---	---
	Ant2	5700	26.480	5684.880	5711.360	---	---
	Ant1	5720	21.560	5709.240	5730.800	---	---
	Ant2	5720	21.480	5709.600	5731.080	---	---
	Ant1	5720_UNII-2C	15.76	5709.240	5725	---	---
	Ant2	5720_UNII-2C	15.4	5709.600	5725	---	---
	Ant1	5720_UNII-3	5.8	5725	5730.800	---	---
	Ant2	5720_UNII-3	6.08	5725	5731.080	---	---
	Ant1	5745	27.960	5733.720	5761.680	---	---
	Ant2	5745	27.920	5733.240	5761.160	---	---
	Ant1	5785	22.480	5773.560	5796.040	---	---
	Ant2	5785	21.960	5774.080	5796.040	---	---
	Ant1	5825	23.960	5811.480	5835.440	---	---
	Ant2	5825	23.400	5812.560	5835.960	---	---
11N40MIMO	Ant1	5190	52.960	5164.560	5217.520	---	---
	Ant2	5190	40.480	5170.320	5210.800	---	---
	Ant1	5230	40.880	5209.280	5250.160	---	---
	Ant2	5230	39.440	5210.480	5249.920	---	---
	Ant1	5270	40.000	5249.840	5289.840	---	---
	Ant2	5270	38.720	5250.480	5289.200	---	---
	Ant1	5310	52.400	5279.840	5332.240	---	---
	Ant2	5310	40.320	5289.360	5329.680	---	---
	Ant1	5510	46.800	5489.280	5536.080	---	---
	Ant2	5510	40.000	5489.680	5529.680	---	---
	Ant1	5550	39.840	5530.000	5569.840	---	---
	Ant2	5550	39.440	5530.080	5569.520	---	---
	Ant1	5670	55.680	5640.480	5696.160	---	---
	Ant2	5670	45.600	5648.240	5693.840	---	---
	Ant1	5710	40.400	5690.080	5730.480	---	---
	Ant2	5710	39.040	5690.640	5729.680	---	---
	Ant1	5710_UNII-2C	34.92	5690.080	5725	---	---
	Ant2	5710_UNII-2C	34.36	5690.640	5725	---	---
	Ant1	5710_UNII-3	5.48	5725	5730.480	---	---
	Ant2	5710_UNII-3	4.68	5725	5729.680	---	---
	Ant1	5755	52.400	5734.680	5787.080	---	---
	Ant2	5755	40.480	5735.320	5775.800	---	---
	Ant1	5795	40.240	5774.840	5815.080	---	---
	Ant2	5795	40.160	5775.080	5815.240	---	---
11AC20MIMO	Ant1	5180	30.360	5165.520	5195.880	---	---
	Ant2	5180	32.080	5165.800	5197.880	---	---
	Ant1	5200	27.560	5185.800	5213.360	---	---
	Ant2	5200	30.200	5185.160	5215.360	---	---
	Ant1	5240	21.400	5229.080	5250.480	---	---
	Ant2	5240	21.160	5229.360	5250.520	---	---