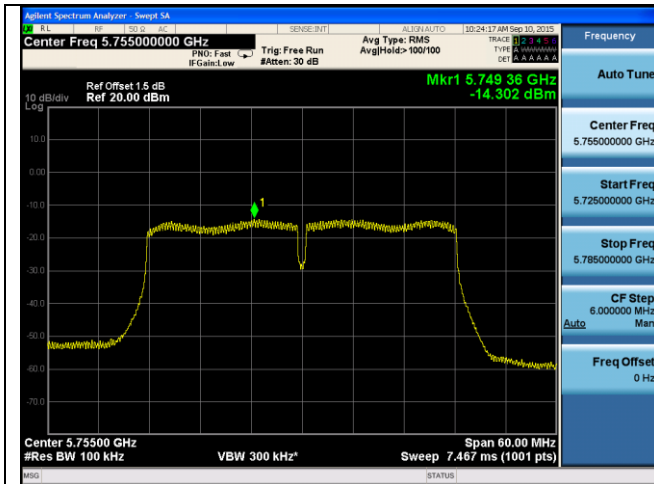
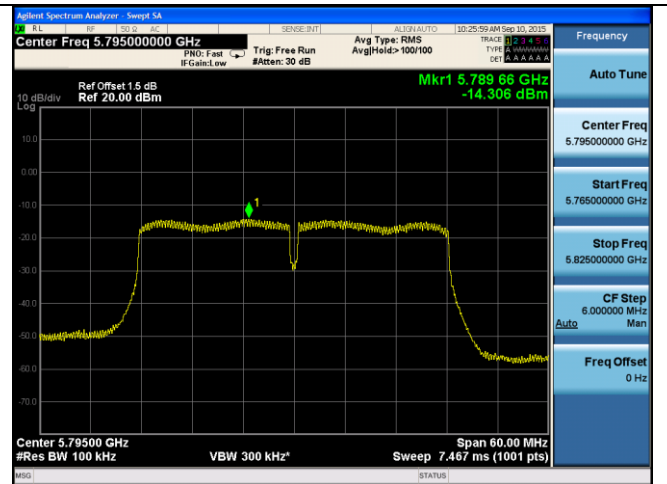
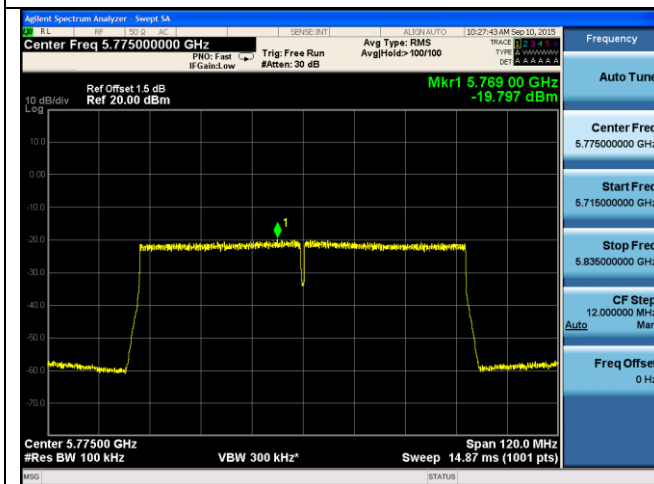




PSD-802.11n40-5755 MHz



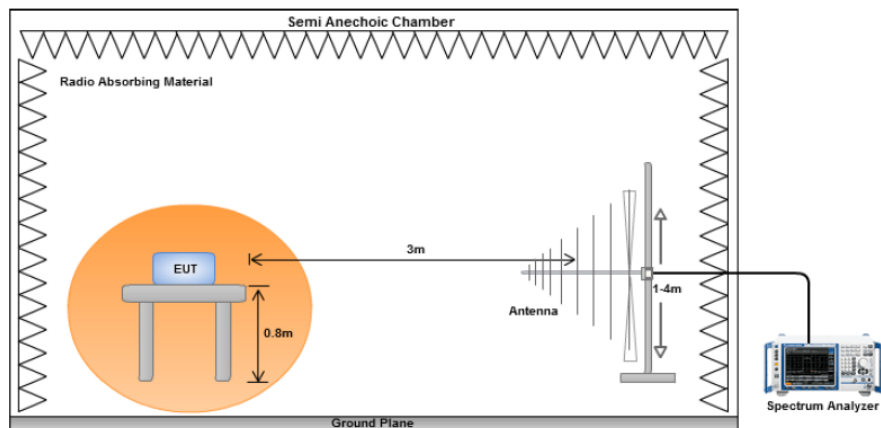
PSD-802.11n40-5795 MHz



PSD-802.11ac80-5775 MHz

10.5 Radiated Emissions below 1GHz

Requirement(s):

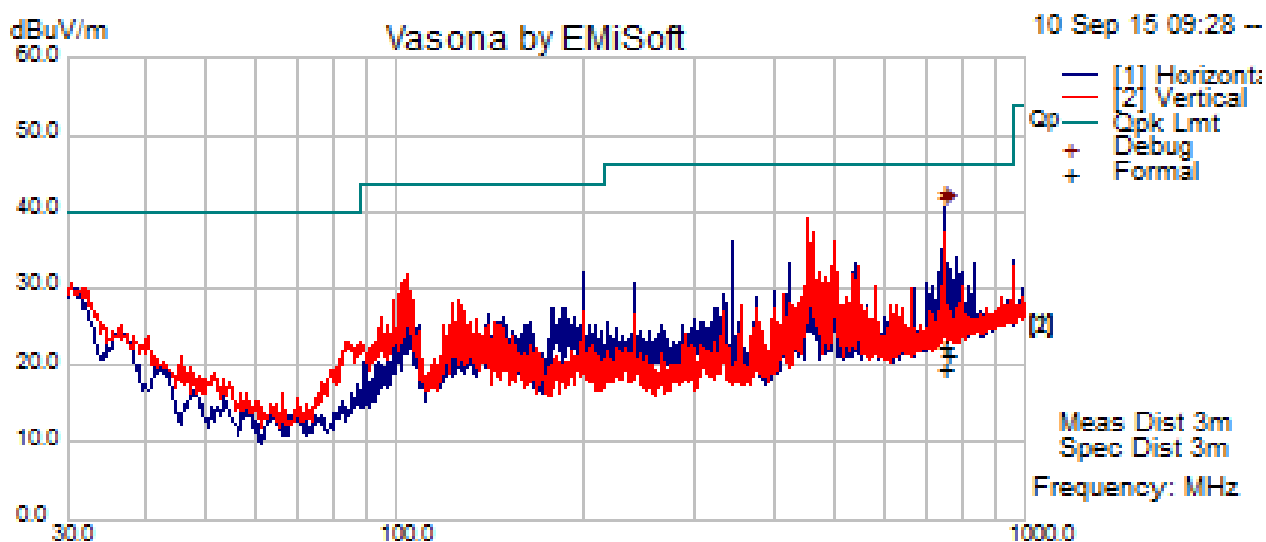
Spec	Requirement	Applicable										
47CFR§ 15.407(b) 15.209 (a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges <table><thead><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr></thead><tbody><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></tbody></table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)											
30 – 88	100											
88 – 216	150											
216 960	200											
Above 960	500											
Test Setup												
Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. A Quasi-peak measurement was then made for that frequency point. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.											
Remark	Both horizontal and vertical polarities were investigated. The results show only the worst case.											
Result	☒ Pass ☐ Fail											

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Radiated Emission Test Results (Below 1GHz) (Omnidirectional Antenna)

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.2GHz 11a 5200MHz Omnidirectional Antenna			

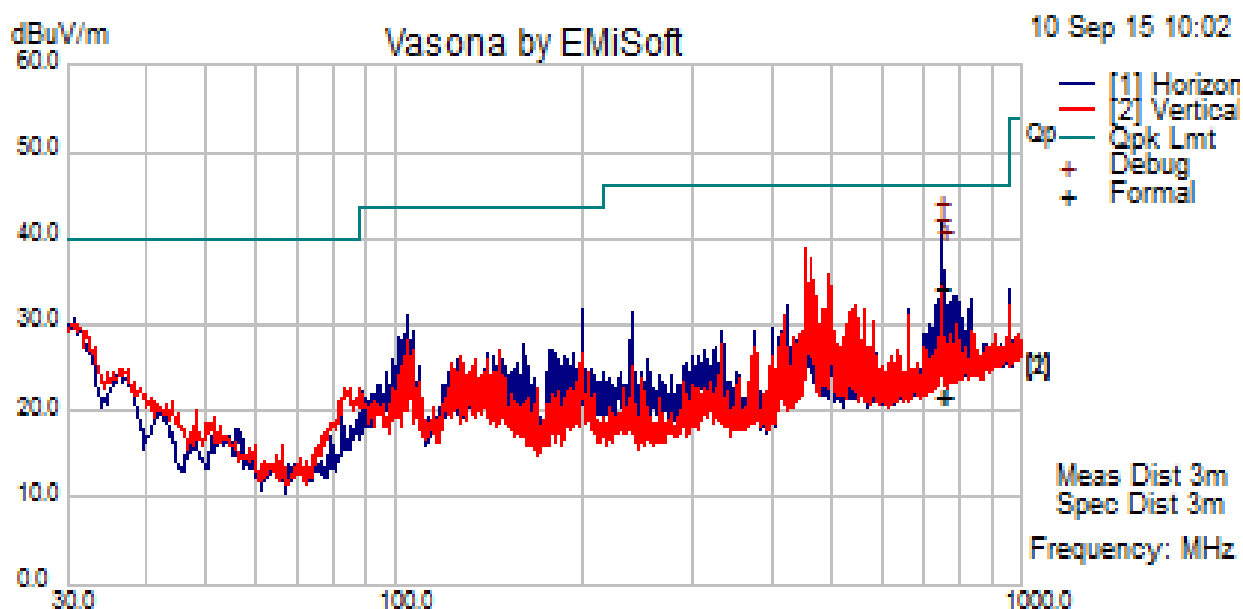


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
746.37	32.64	4.86	-18.05	19.45	Quasi Max	H	396.00	32.00	46.02	-26.57	Pass
747.76	34.43	4.87	-18.04	21.26	Quasi Max	H	196.00	293.00	46.02	-24.76	Pass
745.49	35.81	4.85	-18.06	22.60	Quasi Max	H	108.00	321.00	46.02	-23.42	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.2GHz 11n20 5200MHz Omnidirectional Antenna				

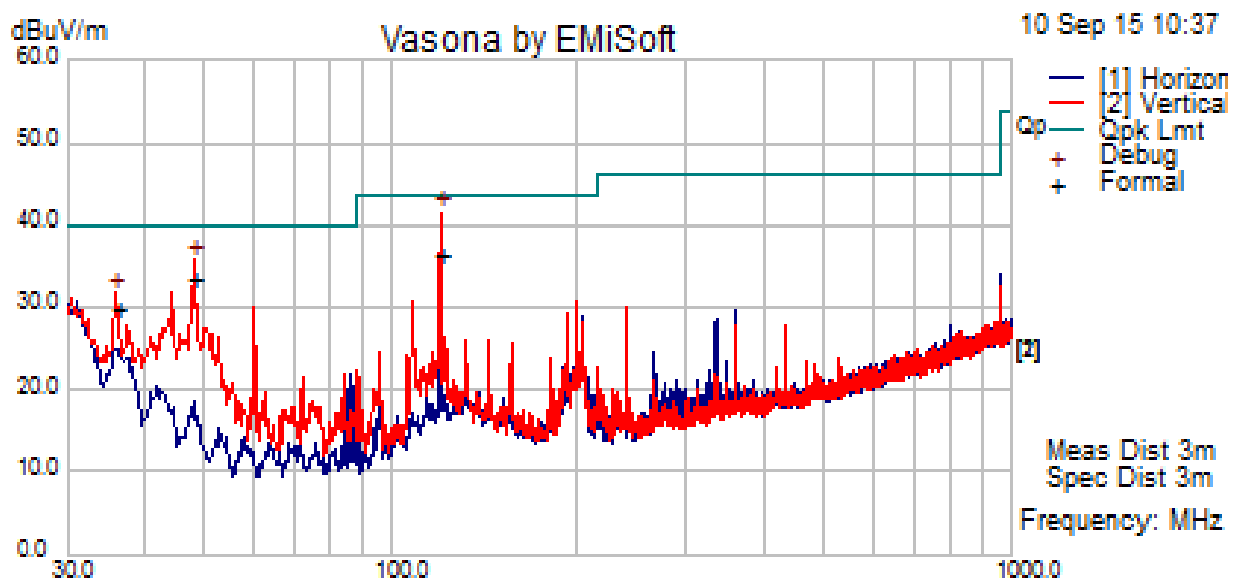


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
747.56	35.02	4.87	-18.04	21.86	Quasi Max	H	187.00	356.00	46.02	-24.16	Pass
747.06	47.40	4.87	-18.05	34.22	Quasi Max	H	110.00	299.00	46.02	-11.80	Pass
748.53	34.96	4.88	-18.03	21.80	Quasi Max	H	212.00	82.00	46.02	-24.22	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.2GHz 11n40 5230 Omnidirectional Antenna			

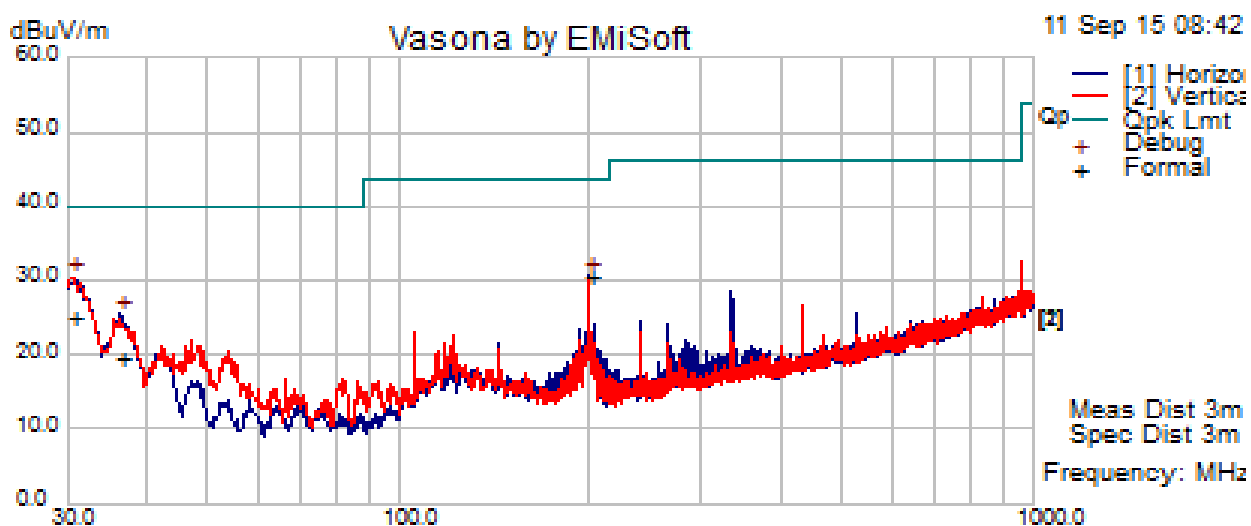


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
120.01	59.30	1.80	-24.65	36.45	Quasi Max	V	117.00	205.00	43.52	-7.07	Pass
48.02	60.19	1.05	-27.93	33.31	Quasi Max	V	105.00	237.00	40.00	-6.69	Pass
35.99	48.68	0.87	-19.59	29.96	Quasi Max	V	106.00	105.00	40.00	-10.04	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.2GHz 11ac80 5210MHz Omnidirectional Antenna				

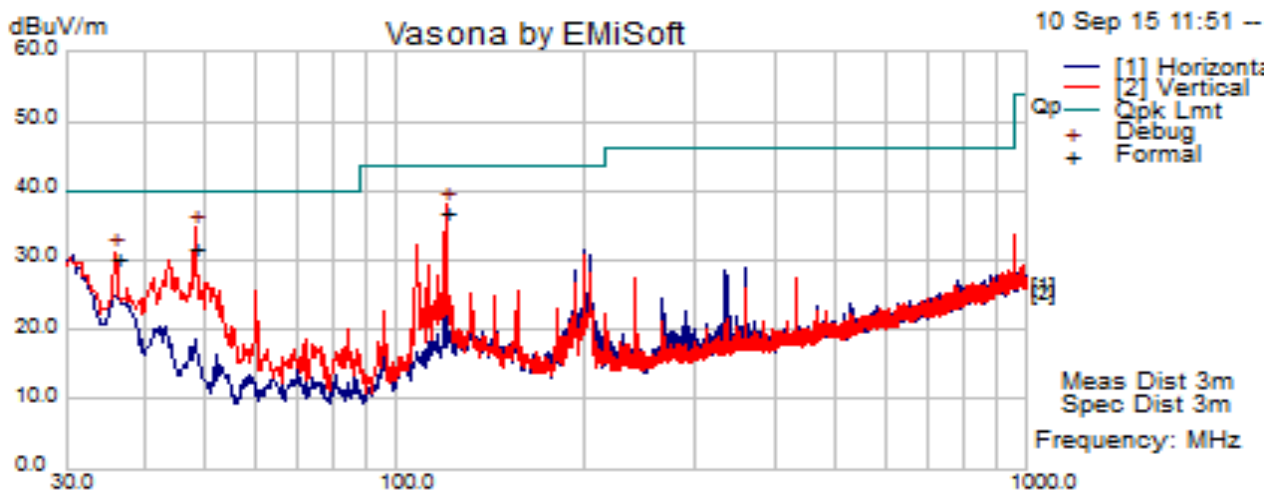


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.70	39.24	0.81	-15.04	25.01	Quasi Max	V	205.00	70.00	40.00	-14.99	Pass
199.51	53.61	2.38	-25.52	30.47	Quasi Max	H	182.00	299.00	43.52	-13.05	Pass
36.38	38.50	0.87	-19.89	19.48	Quasi Max	H	257.00	26.00	40.00	-20.52	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.3GHz 11a 5300MHz Omnidirectional Antenna			

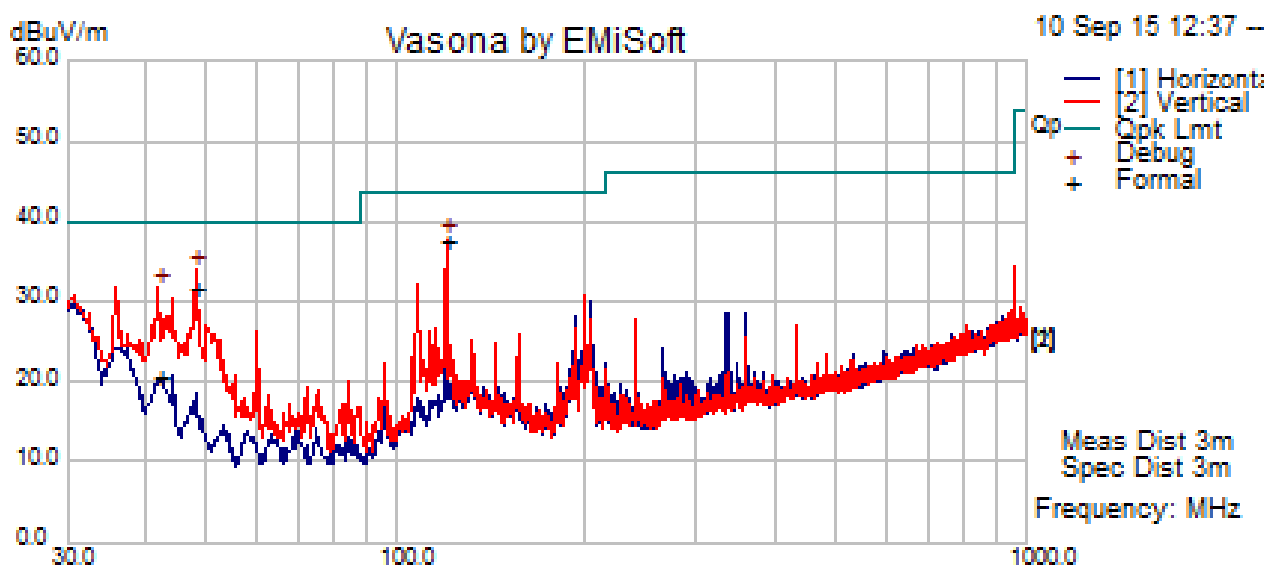


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
48.04	58.69	1.05	-27.94	31.80	Quasi Max	V	100.00	205.00	40.00	-8.20	Pass
120.00	59.73	1.80	-24.65	36.88	Quasi Max	V	109.00	199.00	43.52	-6.64	Pass
35.99	48.92	0.87	-19.59	30.20	Quasi Max	V	101.00	356.00	40.00	-9.80	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.3GHz 11n-20 5300MHz Omnidirectional Antenna				

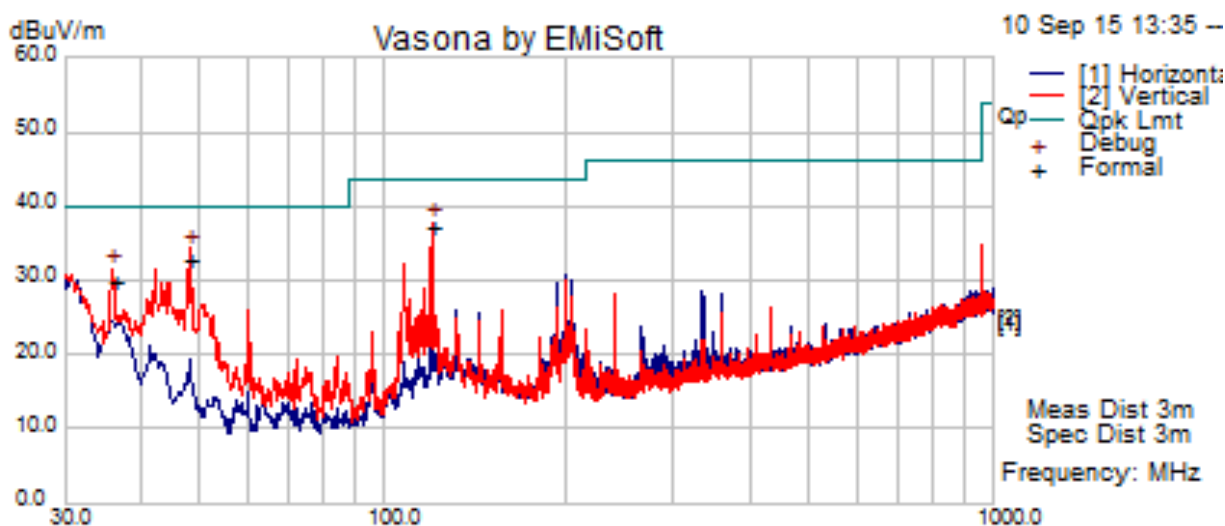


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
120.01	60.48	1.80	-24.65	37.63	Quasi Max	V	101.00	194.00	43.52	-5.89	Pass
48.01	58.60	1.05	-27.92	31.73	Quasi Max	V	104.00	294.00	40.00	-8.27	Pass
41.88	43.47	0.99	-23.94	20.52	Quasi Max	V	139.00	224.00	40.00	-19.48	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.3GHz 11n-40 5310MHz Omnidirectional Antenna				

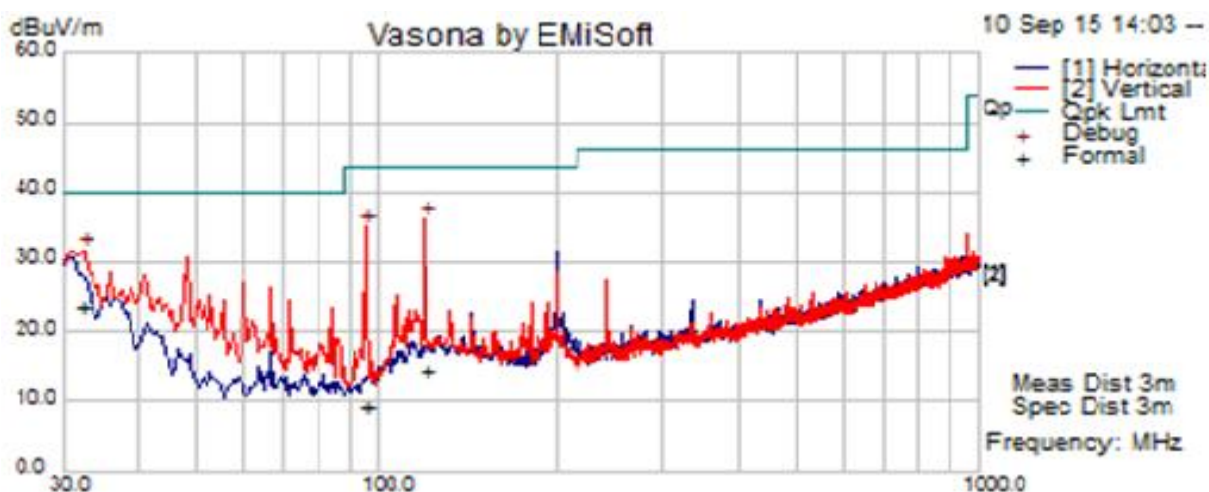


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
48.01	59.54	1.05	-27.92	32.67	Quasi Max	V	103.00	234.00	40.00	-7.33	Pass
120.00	60.05	1.80	-24.65	37.20	Quasi Max	V	100.00	173.00	43.52	-6.32	Pass
36.02	48.57	0.87	-19.61	29.83	Quasi Max	V	100.00	102.00	40.00	-10.17	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.3GHz 11ac80 5290MHz Omnidirectional Antenna				

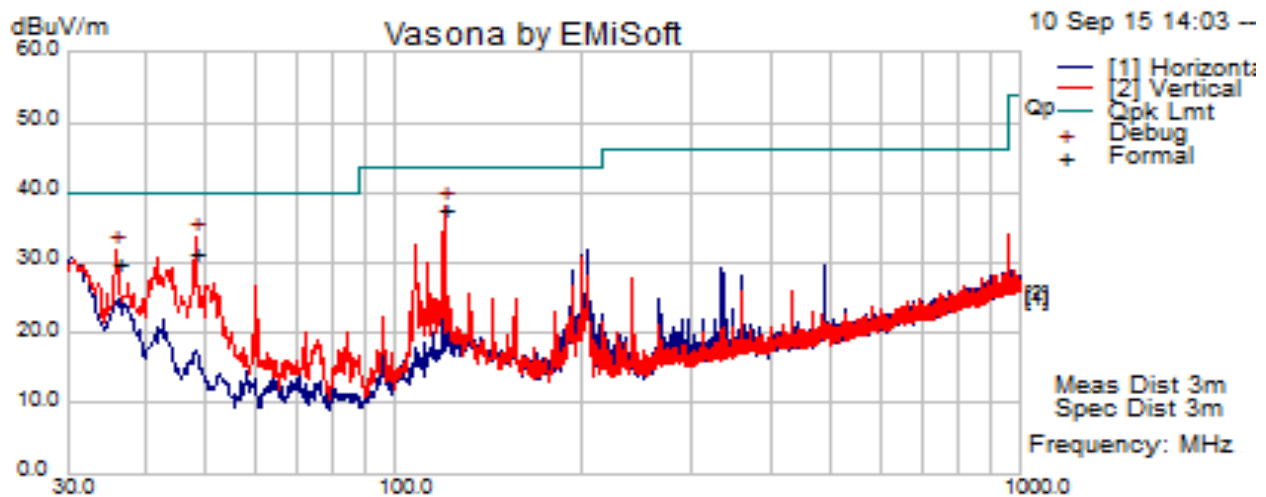


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
119.91	37.32	1.80	-24.66	14.46	Quasi Max	V	231.00	201.00	43.52	-29.06	Pass
32.18	39.22	0.82	-16.38	23.66	Quasi Max	V	400.00	207.00	40.00	-16.34	Pass
95.55	36.98	1.58	-29.46	9.09	Quasi Max	V	196.00	162.00	43.52	-34.43	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.5GHz 11a 5580MHz Omnidirectional Antenna			

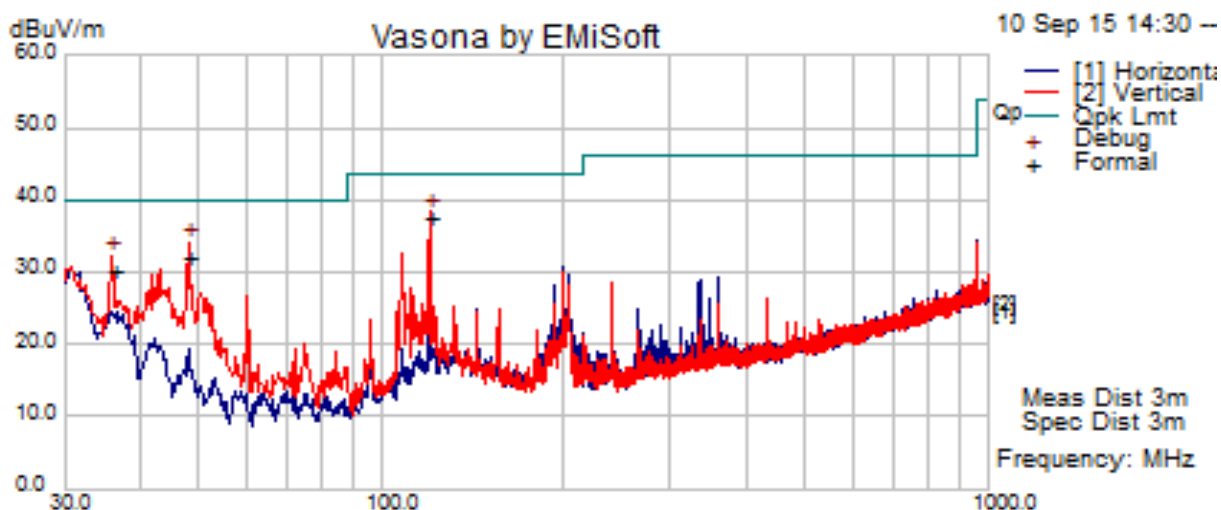


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
120.00	60.40	1.80	-24.65	37.55	Quasi Max	V	103.00	192.00	43.52	-5.97	Pass
48.00	58.27	1.05	-27.91	31.41	Quasi Max	V	131.00	265.00	40.00	-8.59	Pass
35.99	48.65	0.87	-19.59	29.93	Quasi Max	V	112.00	146.00	40.00	-10.07	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.5GHz 11n-20M 5580MHz Omnidirectional Antenna				

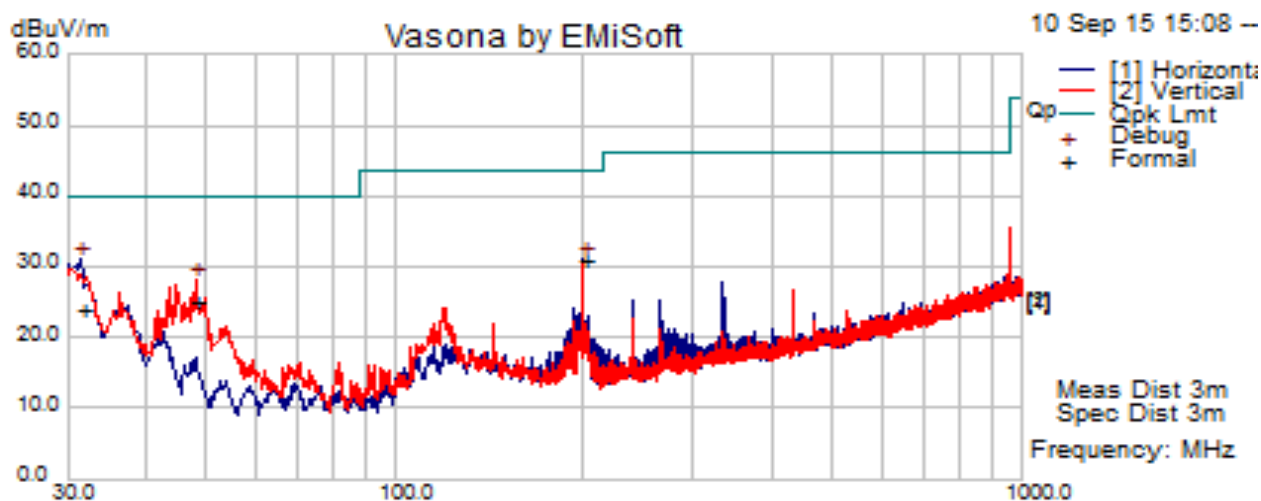


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
120.02	60.23	1.80	-24.65	37.38	Quasi Max	V	102.00	204.00	43.52	-6.14	Pass
48.00	58.90	1.05	-27.91	32.04	Quasi Max	V	125.00	240.00	40.00	-7.96	Pass
36.00	49.02	0.87	-19.59	30.30	Quasi Max	V	101.00	145.00	40.00	-9.70	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.5GHz 11n-40M 5590MHz Omnidirectional Antenna				

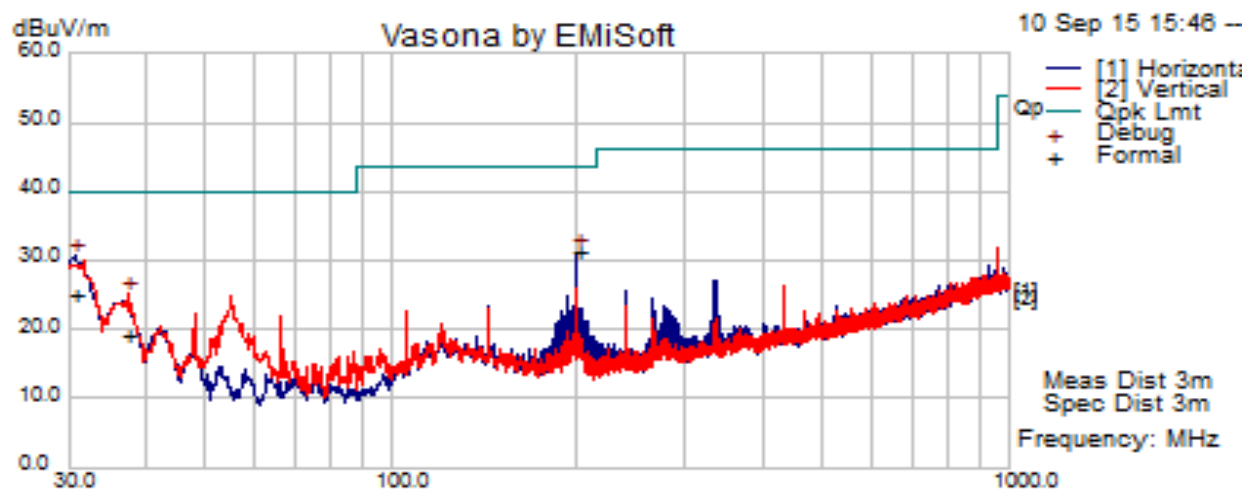


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
31.67	39.19	0.82	-15.93	24.08	Quasi Max	H	177.00	103.00	40.00	-15.92	Pass
48.00	51.75	1.05	-27.91	24.89	Quasi Max	V	105.00	7.00	40.00	-15.11	Pass
199.49	53.93	2.38	-25.53	30.78	Quasi Max	H	128.00	326.00	43.52	-12.74	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.5GHz 11ac-80M 5610MHz Omnidirectional Antenna			

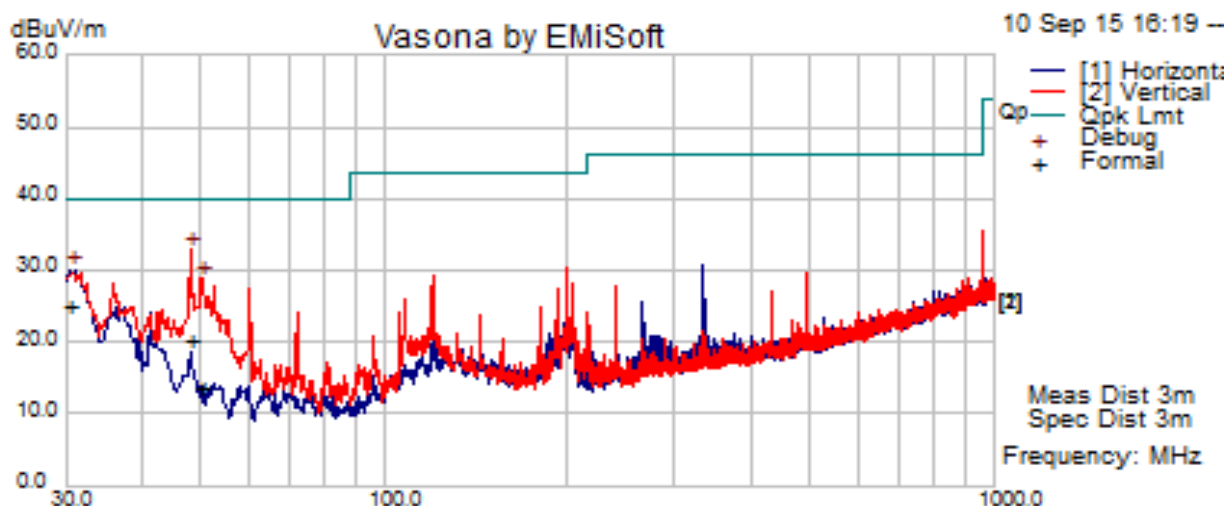


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.51	39.06	0.81	-14.86	25.00	Quasi Max	H	148.00	337.00	40.00	-15.00	Pass
199.50	54.55	2.38	-25.52	31.40	Quasi Max	H	122.00	315.00	43.52	-12.12	Pass
37.32	38.88	0.88	-20.62	19.13	Quasi Max	V	202.00	258.00	40.00	-20.87	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.8GHz 11a 5785MHz Omnidirectional Antenna				

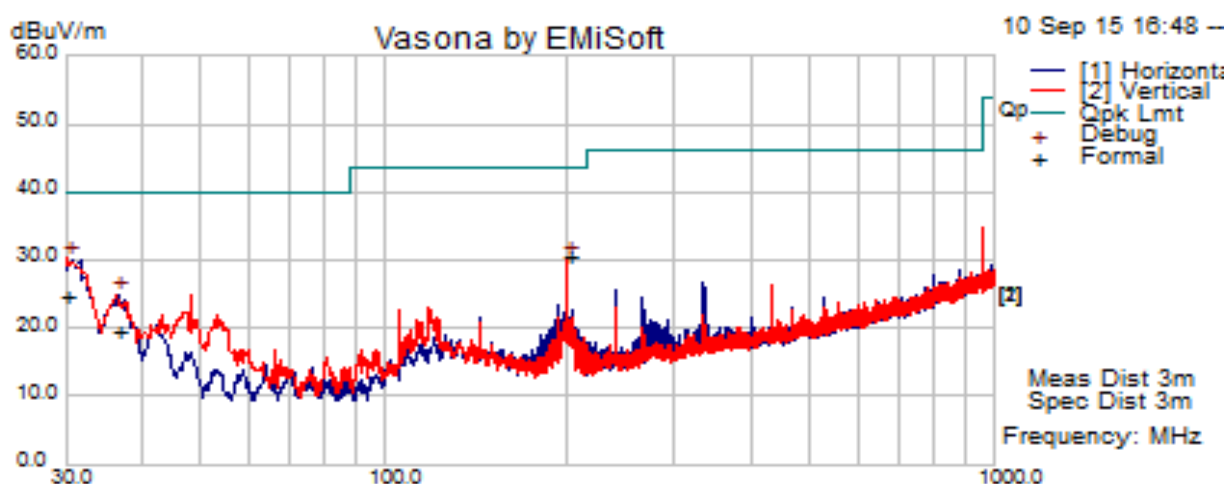


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
48.00	47.00	1.05	-27.91	20.14	Quasi Max	V	103.00	69.00	40.00	-19.86	Pass
30.33	38.87	0.81	-14.70	24.98	Quasi Max	H	158.00	238.00	40.00	-15.02	Pass
49.95	41.58	1.08	-29.07	13.58	Quasi Max	V	119.00	190.00	40.00	-26.42	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.8GHz 11n-20M 5785MHz Omnidirectional Antenna				

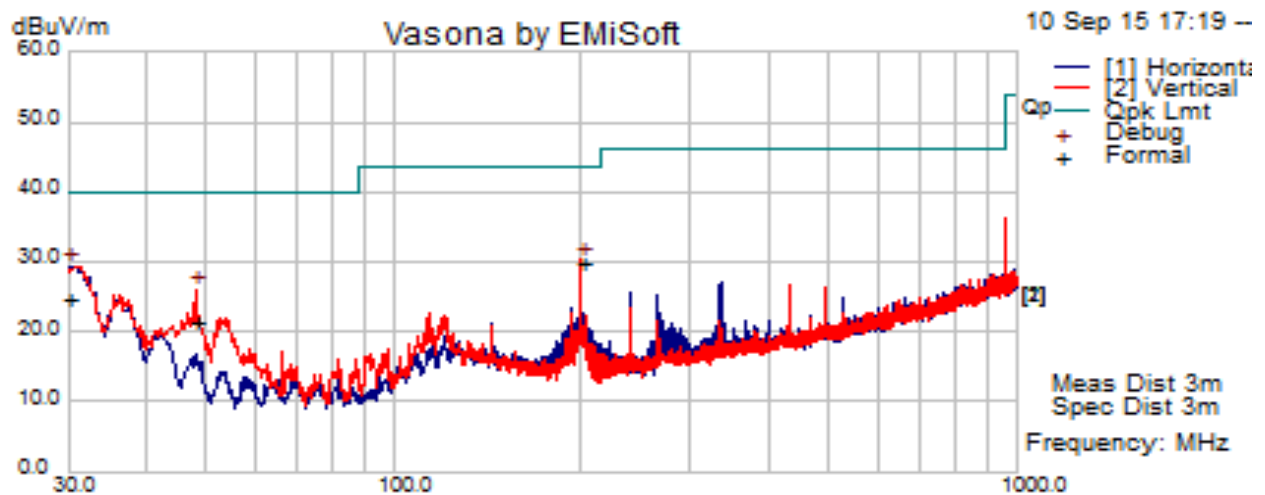


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.00	38.10	0.81	-14.38	24.53	Quasi Max	V	372.00	213.00	40.00	-15.47	Pass
199.51	53.72	2.38	-25.52	30.58	Quasi Max	H	135.00	315.00	43.52	-12.94	Pass
36.53	38.58	0.87	-20.01	19.45	Quasi Max	H	155.00	60.00	40.00	-20.55	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.8GHz 11n-40M 5795MHz Omnidirectional Antenna			

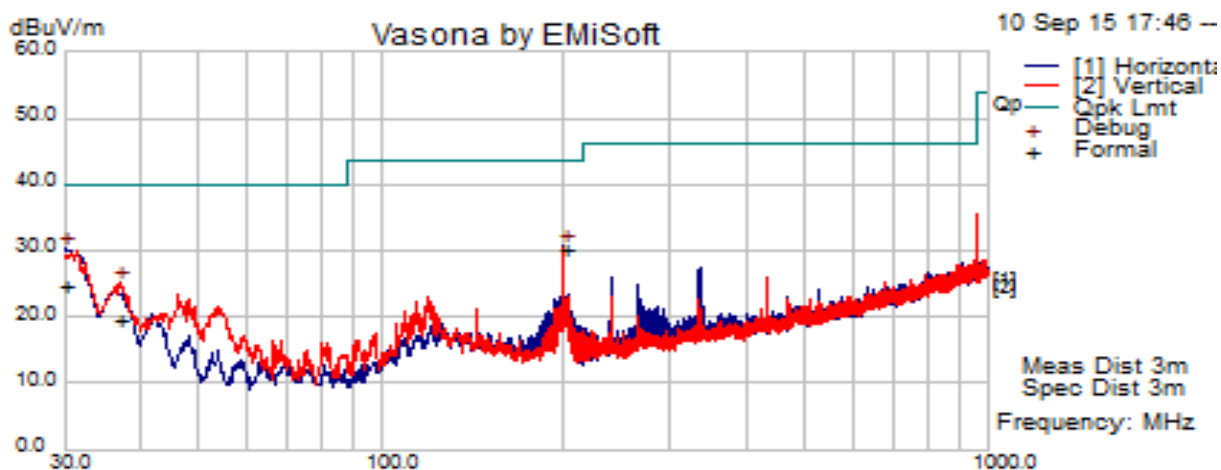


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.00	38.04	0.81	-14.38	24.47	Quasi Max	H	206.00	128.00	40.00	-15.53	Pass
199.51	52.86	2.38	-25.52	29.71	Quasi Max	V	102.00	53.00	43.52	-13.81	Pass
48.01	48.09	1.05	-27.92	21.22	Quasi Max	V	104.00	192.00	40.00	-18.78	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.8GHz 11ac-80M 5775MHz Omnidirectional Antenna				



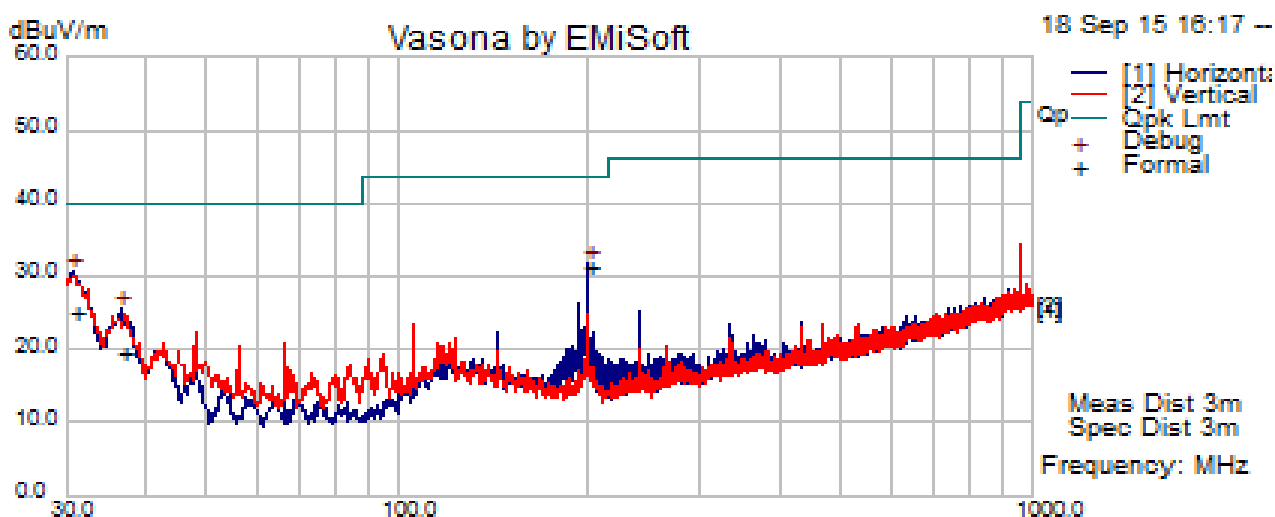
Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.00	38.06	0.81	-14.38	24.48	Quasi Max	H	327.00	165.00	40.00	-15.52	Pass
199.49	53.42	2.38	-25.53	30.27	Quasi Max	H	130.00	307.00	43.52	-13.25	Pass
36.80	38.85	0.87	-20.22	19.50	Quasi Max	V	239.00	19.00	40.00	-20.50	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Radiated Emission Test Results (Below 1GHz) (Patch Antenna)

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	18-Sep-15			
Remarks:	5.2GHz 11a 5200MHz Patch Antenna			

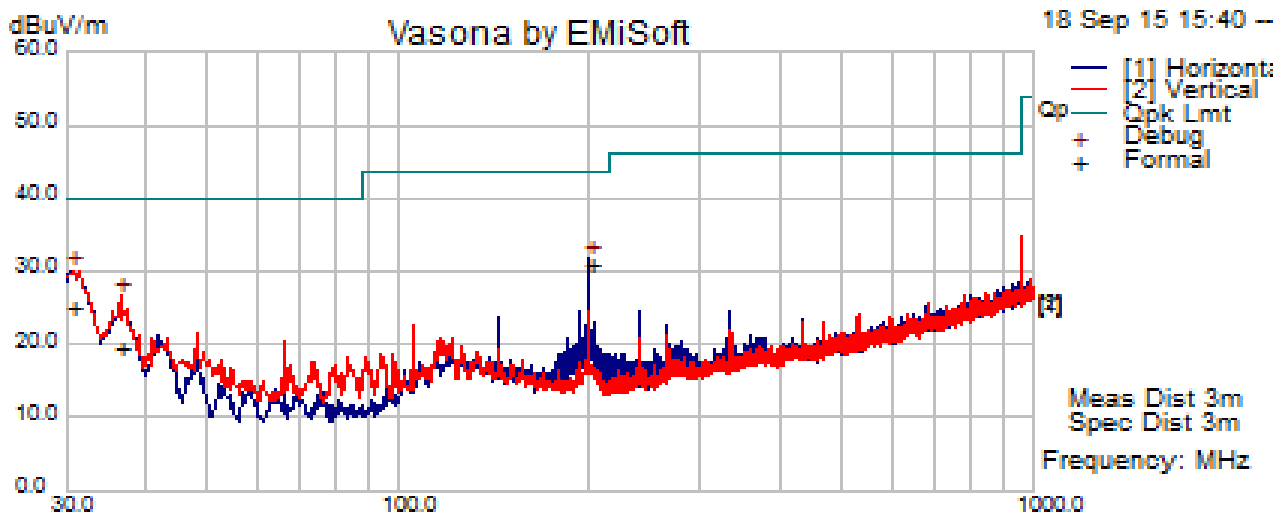


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.87	39.37	0.81	-15.20	24.99	Quasi Max	H	100.00	304.00	40.00	-15.01	Pass
199.50	54.32	2.38	-25.52	31.17	Quasi Max	H	149.00	300.00	43.52	-12.35	Pass
36.77	38.84	0.87	-20.20	19.51	Quasi Max	H	164.00	322.00	40.00	-20.49	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	18-Sep-15			
Remarks:	5.2GHz 11n-20 5200MHz Patch Antenna			

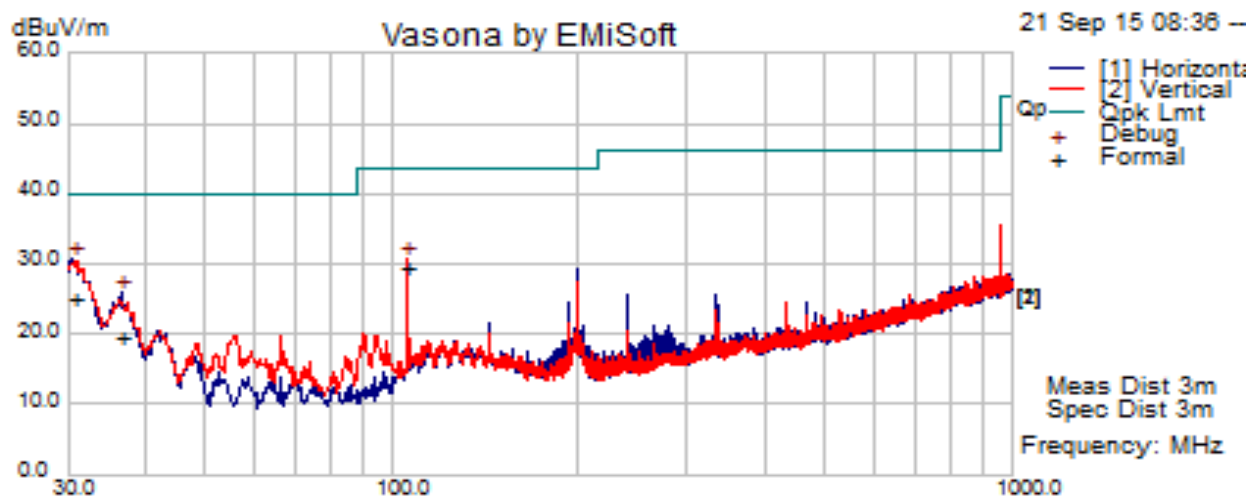


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.53	39.15	0.81	-14.88	25.08	Quasi Max	H	167.00	280.00	40.00	-14.92	Pass
199.50	54.17	2.38	-25.53	31.02	Quasi Max	H	131.00	276.00	43.52	-12.50	Pass
36.61	38.80	0.87	-20.07	19.59	Quasi Max	V	352.00	128.00	40.00	-20.41	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	18-Sep-15			
Remarks:	5.2GHz 11n40 5230 Patch Antenna			

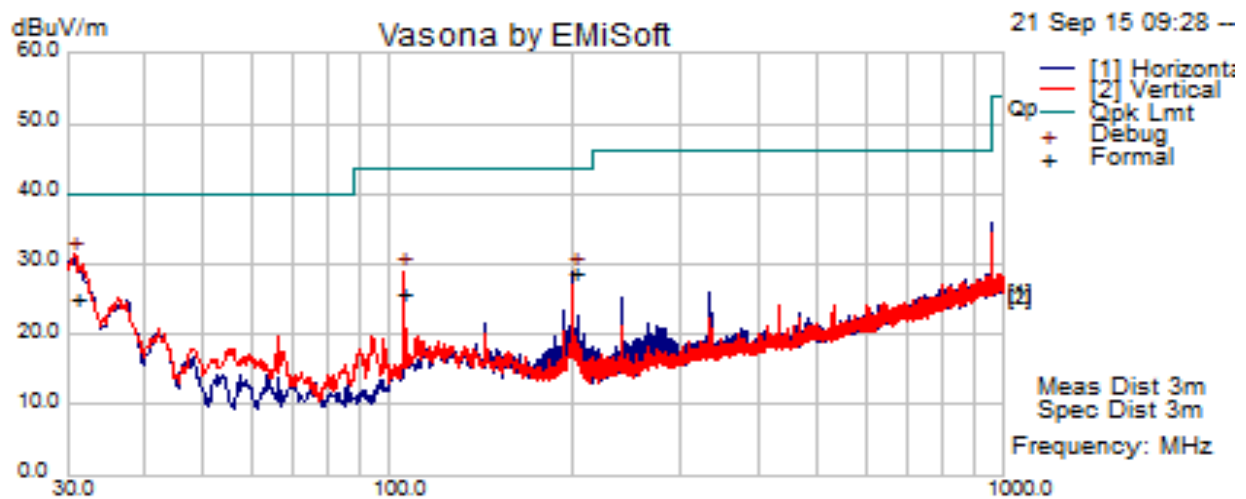


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.59	39.08	0.81	-14.94	24.95	Quasi Max	H	262.00	187.00	40.00	-15.05	Pass
105.77	54.47	1.70	-26.84	29.34	Quasi Max	V	114.00	161.00	43.52	-14.18	Pass
36.49	38.54	0.87	-19.98	19.43	Quasi Max	H	271.00	83.00	40.00	-20.57	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	18-Sep-15			
Remarks:	5.2GHz 11ac-80 5210MHz Patch Antenna			

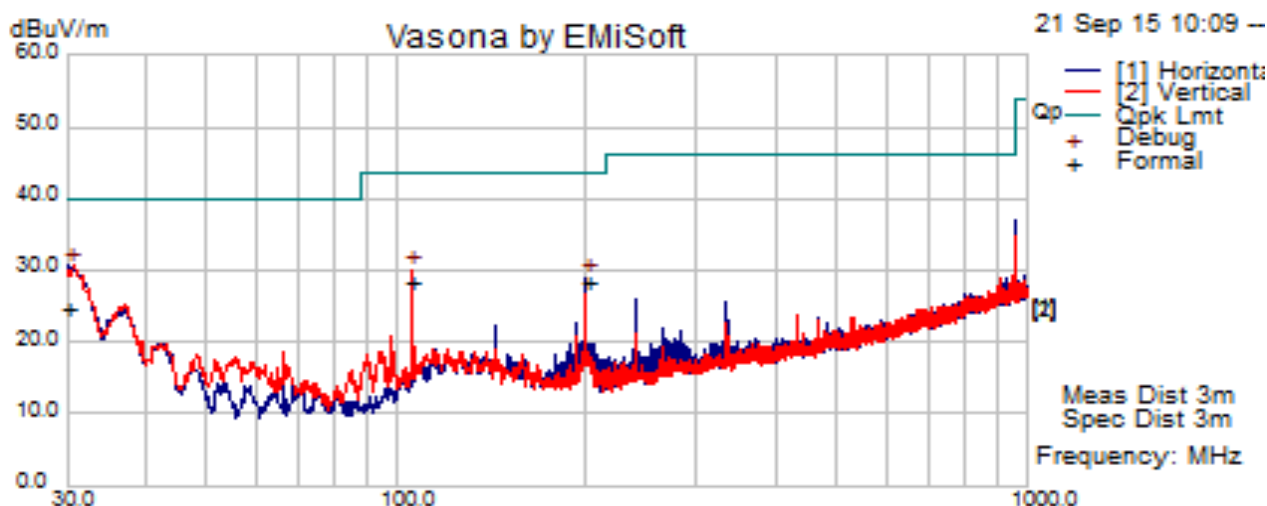


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.95	39.36	0.81	-15.28	24.89	Quasi Max	V	184.00	116.00	40.00	-15.11	Pass
105.77	50.92	1.70	-26.84	25.78	Quasi Max	V	119.00	238.00	43.52	-17.74	Pass
199.50	51.93	2.38	-25.53	28.78	Quasi Max	H	133.00	296.00	43.52	-14.74	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	21-Sep-15				
Remarks:	5.3GHz 11a 5300MHz Patch Antenna				

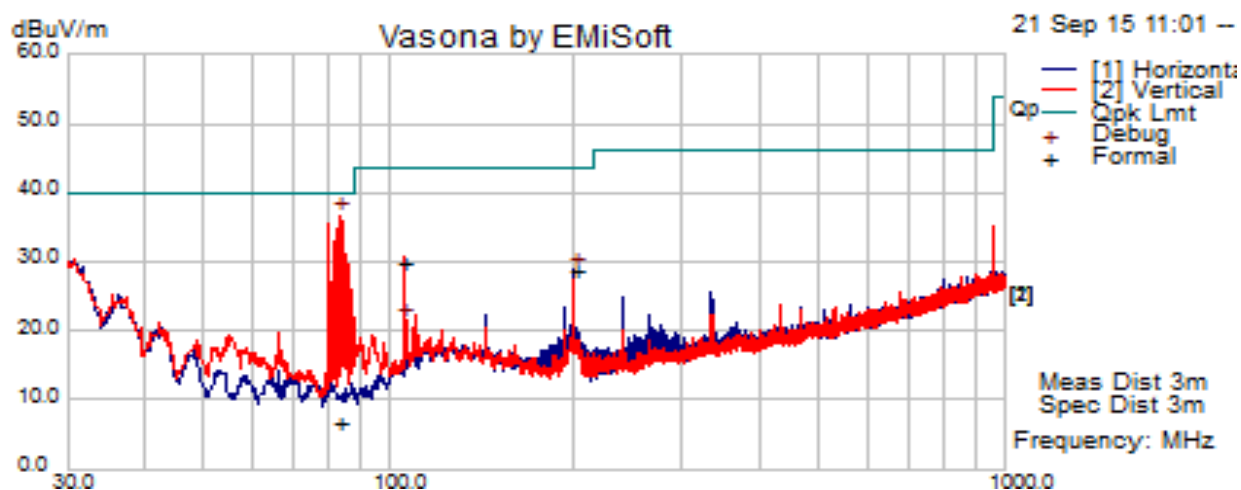


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.00	38.27	0.81	-14.38	24.70	Quasi Max	H	133.00	95.00	40.00	-15.30	Pass
105.76	53.59	1.70	-26.84	28.45	Quasi Max	V	128.00	217.00	43.52	-15.07	Pass
199.49	51.50	2.38	-25.53	28.35	Quasi Max	H	138.00	294.00	43.52	-15.17	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	21-Sep-15				
Remarks:	5.3GHz 11n-20M 5300MHz Patch Antenna				

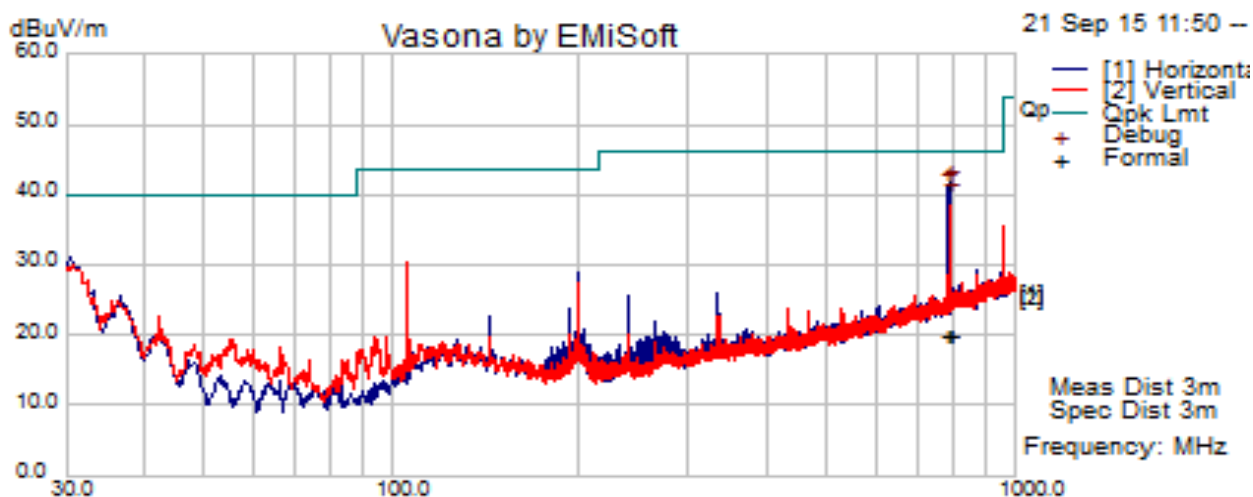


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
120.01	60.48	1.80	-24.65	37.63	Quasi Max	V	101.00	194.00	43.52	-5.89	Pass
48.01	58.60	1.05	-27.92	31.73	Quasi Max	V	104.00	294.00	40.00	-8.27	Pass
41.88	43.47	0.99	-23.94	20.52	Quasi Max	V	139.00	224.00	40.00	-19.48	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.3GHz 11n-40M 5310MHz Patch Antenna				

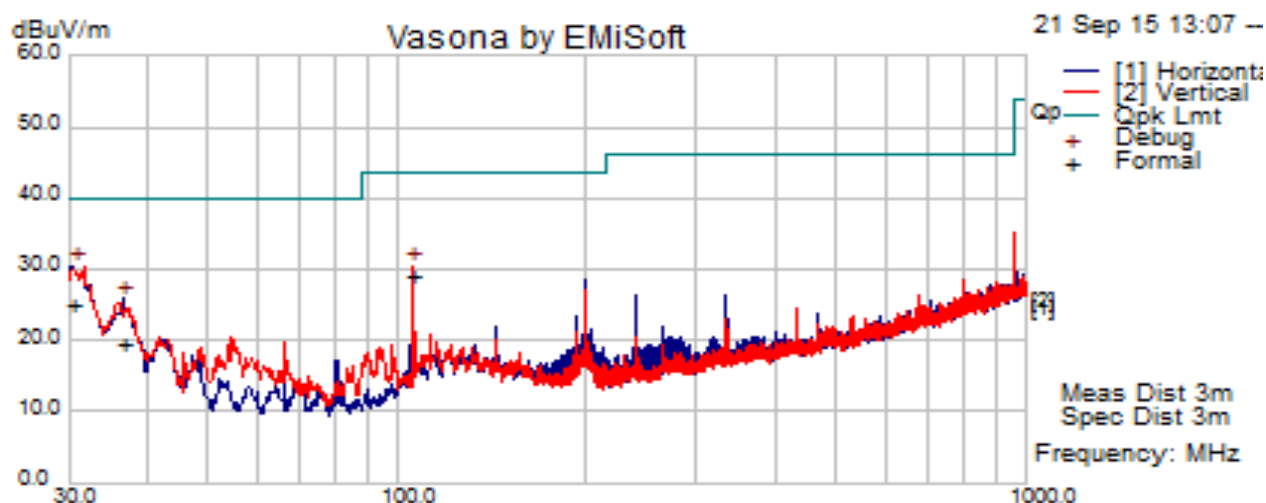


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
785.45	32.44	4.99	-17.45	19.98	Quasi Max	H	100.00	147.00	46.02	-26.04	Pass
777.86	32.55	4.99	-17.59	19.95	Quasi Max	H	108.00	330.00	46.02	-26.07	Pass
782.77	32.50	4.99	-17.48	20.01	Quasi Max	H	139.00	333.00	46.02	-26.01	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	21-Sep-15			
Remarks:	5.3GHz 11ac-80M 5290 Patch Antenna			

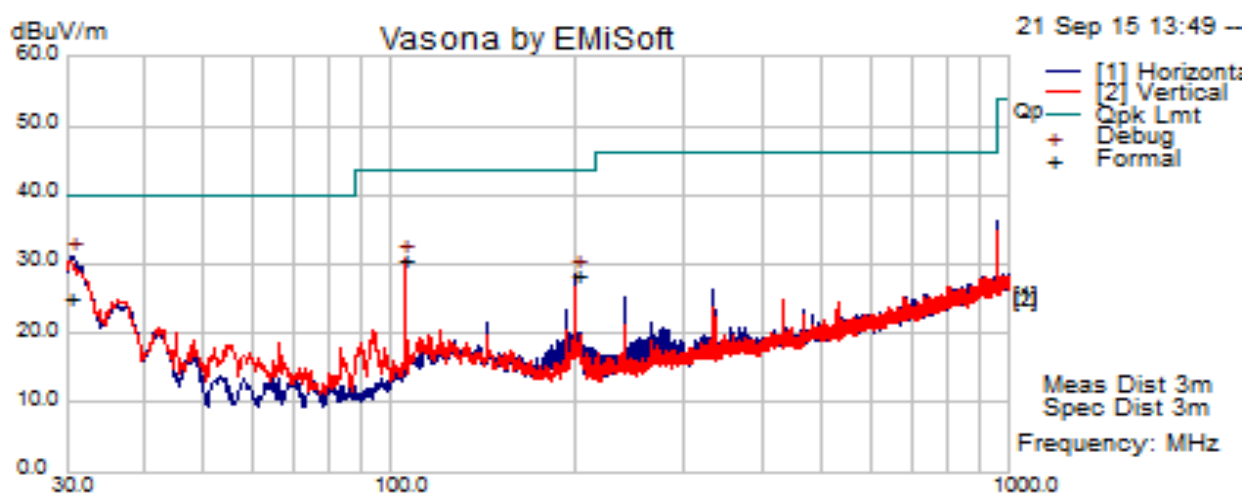


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.42	38.89	0.81	-14.77	24.93	Quasi Max	H	122.00	217.00	40.00	-15.07	Pass
105.76	54.27	1.70	-26.84	29.14	Quasi Max	V	107.00	196.00	43.52	-14.38	Pass
36.67	38.77	0.87	-20.12	19.52	Quasi Max	H	257.00	164.00	40.00	-20.48	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	21-Sep-15			
Remarks:	5.5GHz 11a 5580MHz Patch Antenna			

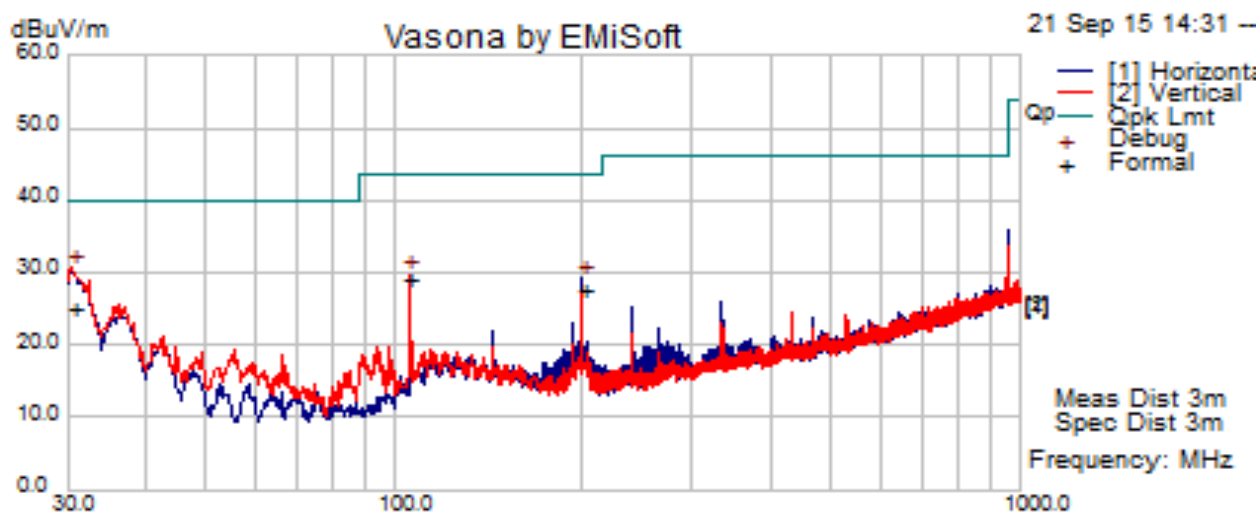


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.26	38.72	0.81	-14.62	24.90	Quasi Max	H	144.00	256.00	40.00	-15.10	Pass
105.72	55.60	1.70	-26.85	30.45	Quasi Max	V	106.00	209.00	43.52	-13.07	Pass
199.51	51.55	2.38	-25.52	28.40	Quasi Max	H	147.00	288.00	43.52	-15.12	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	21-Sep-15			
Remarks:	5.5GHz 11n-20M 5580MHz Patch Antenna			

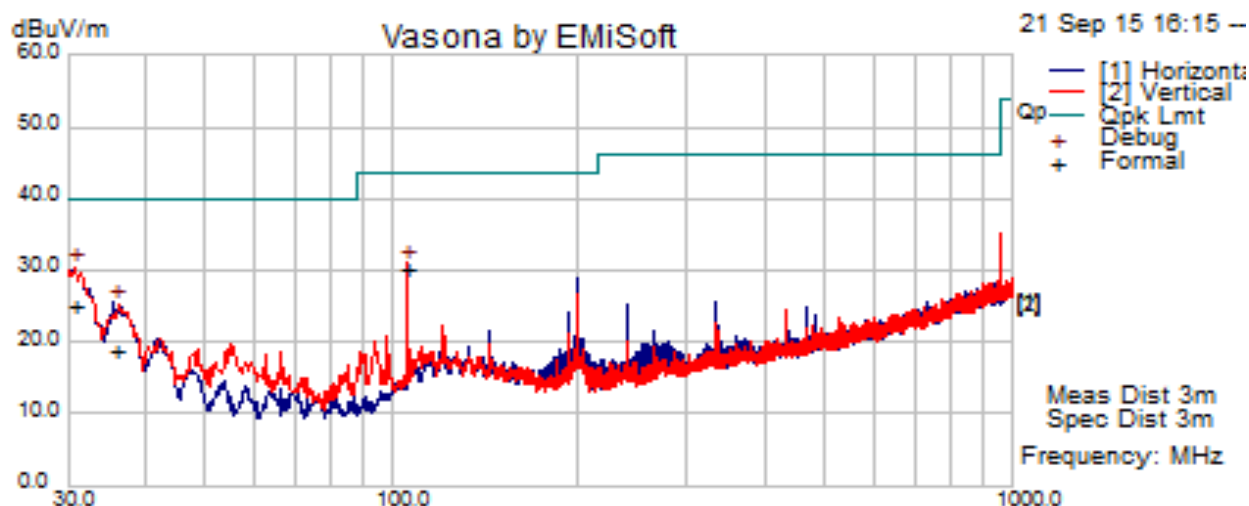


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.61	39.15	0.81	-14.96	25.00	Quasi Max	V	107.00	325.00	40.00	-15.00	Pass
105.75	54.37	1.70	-26.84	29.23	Quasi Max	V	111.00	185.00	43.52	-14.29	Pass
199.53	50.65	2.38	-25.52	27.51	Quasi Max	H	166.00	324.00	43.52	-16.01	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	21-Sep-15				
Remarks:	5.5GHz 11n-40M 5590MHz Patch Antenna				

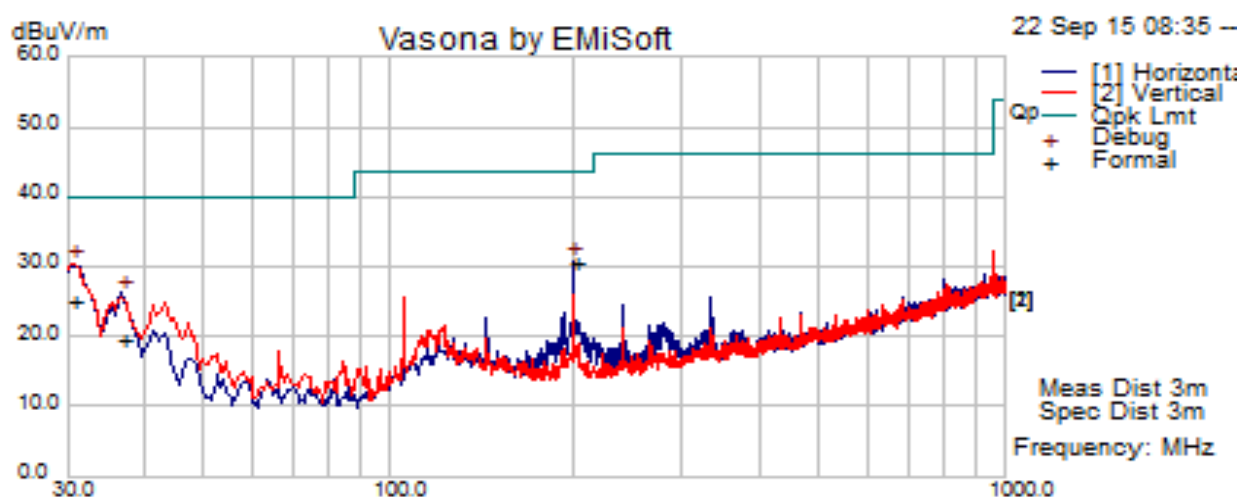


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.59	39.01	0.81	-14.94	24.89	Quasi Max	H	143.00	58.00	40.00	-15.11	Pass
105.74	55.38	1.70	-26.84	30.24	Quasi Max	V	111.00	205.00	43.52	-13.28	Pass
35.66	37.17	0.87	-19.32	18.72	Quasi Max	H	352.00	128.00	40.00	-21.28	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	10-Sep-15				
Remarks:	5.5GHz 11ac-80M 5610MHz Patch Antenna				

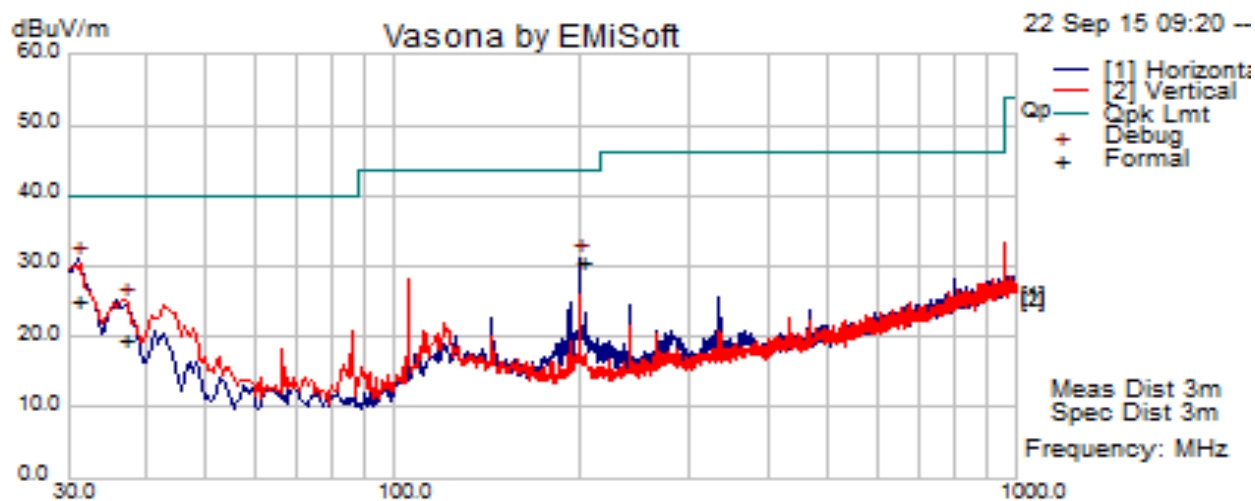


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.68	39.23	0.81	-15.02	25.02	Quasi Max	V	309.00	337.00	40.00	-14.98	Pass
199.50	53.74	2.38	-25.53	30.60	Quasi Max	H	166.00	292.00	43.52	-12.92	Pass
36.74	38.82	0.87	-20.18	19.51	Quasi Max	H	386.00	157.00	40.00	-20.49	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	22-Sep-15				
Remarks:	5.8GHz 11a 57850MHz Patch Antenna				

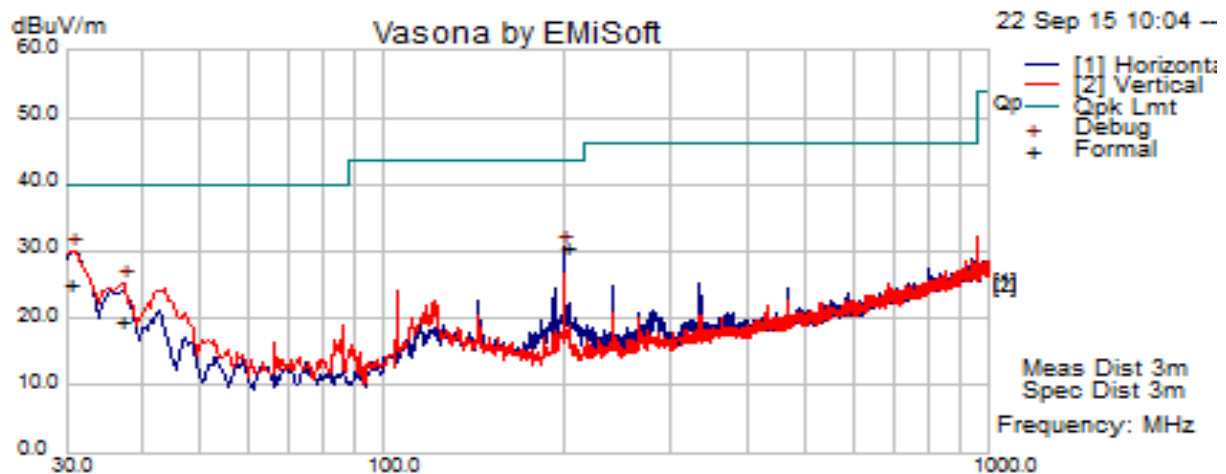


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
31.06	39.41	0.81	-15.37	24.85	Quasi Max	H	255.00	305.00	40.00	-15.15	Pass
199.49	53.60	2.38	-25.53	30.45	Quasi Max	H	162.00	296.00	43.52	-13.07	Pass
36.70	38.83	0.87	-20.15	19.55	Quasi Max	V	267.00	345.00	40.00	-20.45	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	22-Sep-15			
Remarks:	5.8GHz 11n-20M 57850MHz Patch Antenna			

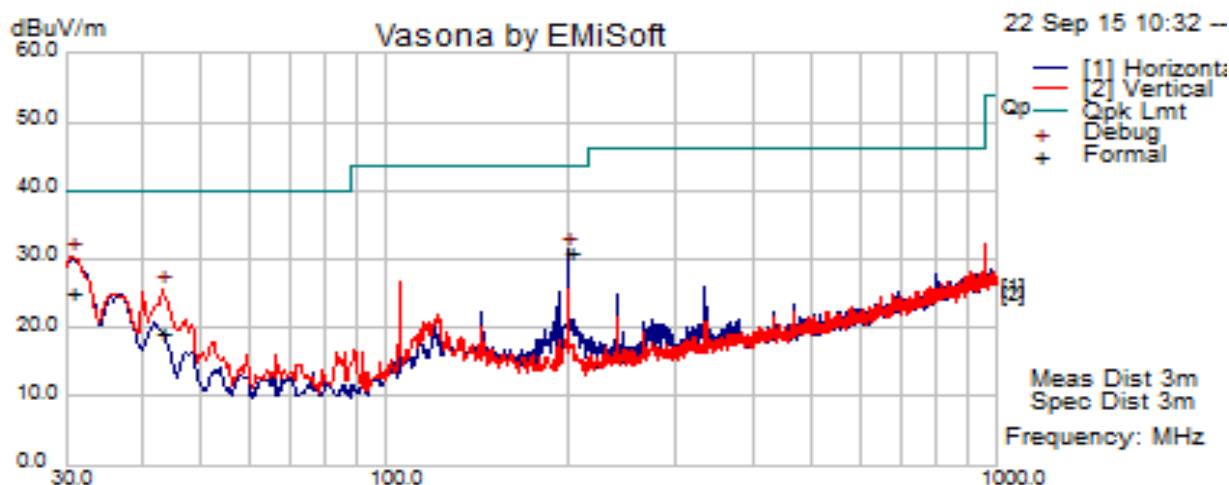


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.31	38.83	0.81	-14.67	24.96	Quasi Max	H	240.00	330.00	40.00	-15.04	Pass
199.49	53.72	2.38	-25.53	30.57	Quasi Max	H	153.00	311.00	43.52	-12.95	Pass
37.03	38.86	0.87	-20.40	19.33	Quasi Max	V	273.00	86.00	40.00	-20.67	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			Result	Pass
Environmental Conditions:	Temp (°C):	25.7			
	Humidity (%)	29			
	Atmospheric (mPa):	1021			
Mains Power:	110VAC, 60Hz				
Tested by:	Teody Manansala				
Test Date:	22-Sep-15				
Remarks:	5.8GHz 11n-40M 57950MHz Patch Antenna				

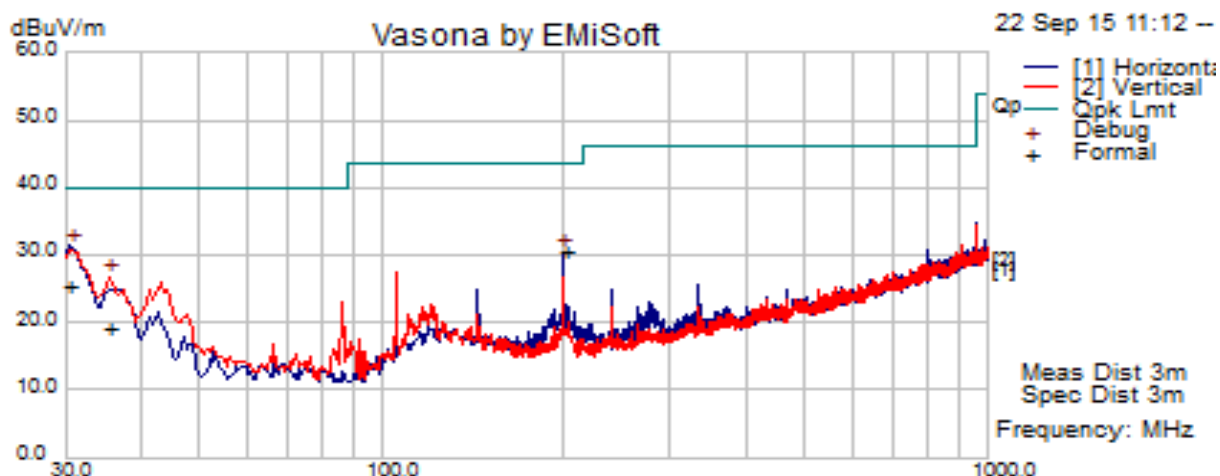


Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.52	39.06	0.81	-14.87	25.00	Quasi Max	V	173.00	357.00	40.00	-15.00	Pass
199.50	54.03	2.38	-25.52	30.89	Quasi Max	H	161.00	312.00	43.52	-12.63	Pass
43.21	42.89	1.02	-24.85	19.06	Quasi Max	V	130.00	288.00	40.00	-20.94	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

Test specification	Above 1GHz			
Environmental Conditions:	Temp (°C):	25.7	Result	Pass
	Humidity (%)	29		
	Atmospheric (mPa):	1021		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	10-Sep-15			
Remarks:	5.8GHz 11ac-80M 5775MHz Patch Antenna			



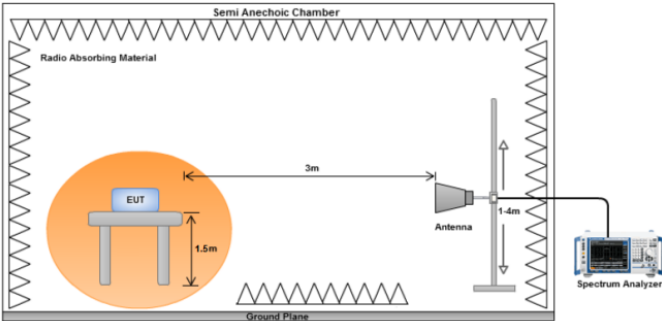
Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.44	39.48	0.81	-14.80	25.49	Quasi Max	H	279.00	81.00	40.00	-14.51	Pass
199.50	53.72	2.38	-25.52	30.58	Quasi Max	H	118.00	292.00	43.52	-12.94	Pass
35.43	37.51	0.87	-19.14	19.24	Quasi Max	V	237.00	138.00	40.00	-20.76	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

10.6 Radiated Spurious Emissions above 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§ 15.407(b)(2), 15.407(b)(6)	(1)	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☒
	(2)	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.	☒
	(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☒
	(4)	For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.	☒
	(5)	Restricted band, emission must also comply with the radiated emission limits specified in 15.209	☒
Test Setup			
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: - Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - An average measurement was then made for that frequency point. - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.		
Result	☒ Pass ☐ Fail		

Equipment Setting

Test	RBW	VBW	Span	Detector	Sweep	Trace	Notes
Radiated Spurious Emission	1MHz	3MHz	1GHz - 40 GHz	Peak	Auto	Max hold	PK Measurement
Radiated Spurious Emission	1MHz	10Hz	1GHz - 40 GHz	Peak	Auto	Max hold	Ave Measurement

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Radiated Emission Test Results (Above 1GHz)

Omnidirectional Antenna : 5.2 GHz

802.11a – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6210.83	44.48	7.52	10.56	62.57	Peak Max	V	157.00	121.00	74.00	-11.43	Pass
17864.82	40.40	13.00	10.77	64.17	Peak Max	V	154.00	189.00	74.00	-9.83	Pass
12464.08	41.60	12.98	8.37	62.96	Peak Max	H	295.00	173.00	74.00	-11.04	Pass
6210.83	31.50	7.52	10.56	49.58	Average Max	V	157.00	121.00	54.00	-4.42	Pass
17864.82	26.79	13.00	10.77	50.57	Average Max	V	154.00	189.00	54.00	-3.43	Pass
12464.08	28.52	12.98	8.37	49.88	Average Max	H	295.00	173.00	54.00	-4.12	Pass

802.11a – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17592.36	39.89	13.00	10.49	63.38	Peak Max	V	169.00	342.00	74.00	-10.62	Pass
4203.96	38.79	6.00	11.34	56.13	Peak Max	H	214.00	264.00	74.00	-17.87	Pass
6179.11	45.43	7.43	10.64	63.50	Peak Max	H	277.00	198.00	74.00	-10.50	Pass
17592.36	26.66	13.00	10.49	50.16	Average Max	V	169.00	342.00	54.00	-3.84	Pass
4203.96	25.39	6.00	11.34	42.73	Average Max	H	214.00	264.00	54.00	-11.27	Pass
6179.11	31.54	7.43	10.64	49.60	Average Max	H	277.00	198.00	54.00	-4.40	Pass

802.11a – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6314.19	44.95	7.83	10.32	63.10	Peak Max	V	281.00	238.00	74.00	-10.90	Pass
3487.21	38.10	5.50	10.31	53.91	Peak Max	H	241.00	293.00	74.00	-20.09	Pass
18001.54	96.41	0.00	-31.99	64.42	Peak Max	V	279.00	51.00	74.00	-9.58	Pass
6314.19	31.49	7.83	10.32	49.64	Average Max	V	281.00	238.00	54.00	-4.36	Pass
3487.21	24.58	5.50	10.31	40.39	Average Max	H	241.00	293.00	54.00	-13.61	Pass
18001.54	82.64	0.00	-31.99	50.65	Average Max	V	279.00	51.00	54.00	-3.35	Pass

Omnidirectional Antenna : 5.2 GHz

802.11n20 – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1734.17	38.99	3.02	9.38	51.39	Peak Max	H	273.00	265.00	74.00	-22.61	Pass
17848.13	40.13	13.00	10.75	63.88	Peak Max	V	184.00	358.00	74.00	-10.12	Pass
3980.57	39.44	5.82	12.16	57.42	Peak Max	V	187.00	61.00	74.00	-16.58	Pass
1734.17	25.22	3.02	9.38	37.61	Average Max	H	273.00	265.00	54.00	-16.39	Pass
17848.13	26.68	13.00	10.75	50.43	Average Max	V	184.00	358.00	54.00	-3.57	Pass
3980.57	25.37	5.82	12.16	43.35	Average Max	V	187.00	61.00	54.00	-10.65	Pass

802.11n20 – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2446.51	40.08	4.93	10.17	55.17	Peak Max	H	199.00	78.00	74.00	-18.83	Pass
1884.45	38.48	3.20	10.55	52.24	Peak Max	H	148.00	213.00	74.00	-21.76	Pass
17661.15	40.15	13.00	10.56	63.72	Peak Max	V	271.00	292.00	74.00	-10.28	Pass
2446.51	26.24	4.93	10.17	41.34	Average Max	H	199.00	78.00	54.00	-12.66	Pass
1884.45	25.33	3.20	10.55	39.08	Average Max	H	148.00	213.00	54.00	-14.92	Pass
17661.15	27.06	13.00	10.56	50.62	Average Max	V	271.00	292.00	54.00	-3.38	Pass

802.11n20 – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
3488.57	37.59	5.50	10.31	53.41	Peak Max	H	273.00	333.00	74.00	-20.59	Pass
6231.39	44.35	7.58	10.51	62.45	Peak Max	H	173.00	206.00	74.00	-11.55	Pass
17745.85	40.28	13.00	10.65	63.93	Peak Max	V	264.00	56.00	74.00	-10.07	Pass
3488.57	24.52	5.50	10.31	40.33	Average Max	H	273.00	333.00	54.00	-13.67	Pass
6231.39	31.60	7.58	10.51	49.70	Average Max	H	173.00	206.00	54.00	-4.30	Pass
17745.85	26.91	13.00	10.65	50.56	Average Max	V	264.00	56.00	54.00	-3.44	Pass

Omnidirectional Antenna : 5.2 GHz

802.11n40 – 5190MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6211.15	44.77	7.52	10.56	62.85	Peak Max	V	176.00	23.00	74.00	-11.15	Pass
17401.93	39.87	12.81	10.10	62.78	Peak Max	V	236.00	201.00	74.00	-11.22	Pass
14627.07	42.24	13.33	8.08	63.65	Peak Max	V	146.00	86.00	74.00	-10.35	Pass
6211.15	31.36	7.52	10.56	49.45	Average Max	V	176.00	23.00	54.00	-4.55	Pass
17401.93	26.62	12.81	10.10	49.53	Average Max	V	236.00	201.00	54.00	-4.47	Pass
14627.07	29.29	13.33	8.08	50.69	Average Max	V	146.00	86.00	54.00	-3.31	Pass

802.11n40 – 5230MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2431.11	39.30	4.88	10.21	54.39	Peak Max	H	281.00	116.00	74.00	-19.61	Pass
1733.58	39.37	3.02	9.38	51.77	Peak Max	H	234.00	93.00	74.00	-22.23	Pass
6315.32	44.81	7.83	10.32	62.96	Peak Max	H	213.00	202.00	74.00	-11.04	Pass
2431.11	26.07	4.88	10.21	41.16	Average Max	H	281.00	116.00	54.00	-12.84	Pass
1733.58	25.22	3.02	9.38	37.62	Average Max	H	234.00	93.00	54.00	-16.38	Pass
6315.32	31.41	7.83	10.32	49.55	Average Max	H	213.00	202.00	54.00	-4.45	Pass

802.11n40 – 5270MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1886.71	38.96	3.20	10.57	52.73	Peak Max	H	172.00	315.00	74.00	-21.27	Pass
3505.29	36.94	5.50	10.34	52.79	Peak Max	H	180.00	17.00	74.00	-21.21	Pass
17659.82	39.89	13.00	10.56	63.45	Peak Max	V	148.00	124.00	74.00	-10.55	Pass
1886.71	25.38	3.20	10.57	39.16	Average Max	H	172.00	315.00	54.00	-14.84	Pass
3505.29	23.67	5.50	10.34	39.51	Average Max	H	180.00	17.00	54.00	-14.49	Pass
17659.82	27.01	13.00	10.56	50.57	Average Max	V	148.00	124.00	54.00	-3.43	Pass

Omnidirectional Antenna : 5.2 GHz

802.11ac-80M – 5210MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17676.62	37.85	13.00	10.58	61.43	Peak Max	H	147.00	81.00	74.00	-12.57	Pass
6179.08	41.18	7.43	10.64	59.24	Peak Max	H	179.00	173.00	74.00	-14.76	Pass
4151.64	36.23	5.96	11.56	53.75	Peak Max	H	224.00	346.00	74.00	-20.25	Pass
17676.62	24.35	13.00	10.58	47.93	Average Max	H	147.00	81.00	54.00	-6.07	Pass
6179.08	28.03	7.43	10.64	46.09	Average Max	H	179.00	173.00	54.00	-7.91	Pass
4151.64	22.84	5.96	11.56	40.37	Average Max	H	224.00	346.00	54.00	-13.63	Pass

Omnidirectional Antenna : 5.3 GHz

802.11a – 5260MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17930.87	39.85	13.00	10.84	63.69	Peak Max	H	228.00	168.00	74.00	-10.31	Pass
6194.46	44.33	7.47	10.60	62.40	Peak Max	H	171.00	170.00	74.00	-11.60	Pass
4149.43	38.84	5.96	11.57	56.37	Peak Max	H	187.00	107.00	74.00	-17.63	Pass
17930.87	26.74	13.00	10.84	50.58	Average Max	H	228.00	168.00	54.00	-3.42	Pass
6194.46	31.34	7.47	10.60	49.41	Average Max	H	171.00	170.00	54.00	-4.59	Pass
4149.43	25.71	5.96	11.57	43.24	Average Max	H	187.00	107.00	54.00	-10.76	Pass

802.11a – 5300MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6245.48	44.79	7.63	10.48	62.89	Peak Max	H	275.00	87.00	74.00	-11.11	Pass
17878.77	39.99	13.00	10.79	63.78	Peak Max	V	270.00	296.00	74.00	-10.22	Pass
2005.43	41.60	3.35	11.46	56.42	Peak Max	H	296.00	268.00	74.00	-17.58	Pass
6245.48	31.63	7.63	10.48	49.74	Average Max	H	275.00	87.00	54.00	-4.26	Pass
17878.77	26.87	13.00	10.79	50.65	Average Max	V	270.00	296.00	54.00	-3.35	Pass
2005.43	28.05	3.35	11.46	42.86	Average Max	H	296.00	268.00	54.00	-11.14	Pass

802.11a – 5320MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14780.55	42.53	13.60	7.67	63.80	Peak Max	V	255.00	49.00	74.00	-10.20	Pass
17589.30	40.15	13.00	10.49	63.64	Peak Max	V	183.00	268.00	74.00	-10.36	Pass
4118.40	39.22	5.93	11.71	56.86	Peak Max	V	165.00	343.00	74.00	-17.14	Pass
14780.55	29.38	13.60	7.67	50.65	Average Max	V	255.00	49.00	54.00	-3.35	Pass
17589.30	26.63	13.00	10.49	50.12	Average Max	V	183.00	268.00	54.00	-3.88	Pass
4118.40	25.61	5.93	11.71	43.24	Average Max	V	165.00	343.00	54.00	-10.76	Pass

Omnidirectional Antenna : 5.3 GHz

802.11n20 – 5260MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14577.74	42.07	13.24	8.21	63.52	Peak Max	V	220.00	156.00	74.00	-10.48	Pass
6246.25	45.07	7.63	10.48	63.18	Peak Max	H	168.00	145.00	74.00	-10.82	Pass
17932.80	40.25	13.00	10.84	64.09	Peak Max	H	279.00	0.00	74.00	-9.91	Pass
14577.74	29.48	13.24	8.21	50.93	Average Max	V	220.00	156.00	54.00	-3.07	Pass
6246.25	31.62	7.63	10.48	49.72	Average Max	H	168.00	145.00	54.00	-4.28	Pass
17932.80	26.73	13.00	10.84	50.57	Average Max	H	279.00	0.00	54.00	-3.43	Pass

802.11n20 – 5300MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6313.66	45.23	7.83	10.32	63.38	Peak Max	H	119.00	117.00	74.00	-10.62	Pass
14815.83	42.52	13.66	7.58	63.76	Peak Max	V	155.00	264.00	74.00	-10.24	Pass
4186.83	38.92	5.99	11.41	56.32	Peak Max	V	198.00	258.00	74.00	-17.68	Pass
6313.66	31.45	7.83	10.32	49.60	Average Max	H	119.00	117.00	54.00	-4.40	Pass
14815.83	29.27	13.66	7.58	50.51	Average Max	V	155.00	264.00	54.00	-3.49	Pass
4186.83	25.52	5.99	11.41	42.92	Average Max	V	198.00	258.00	54.00	-11.08	Pass

802.11n20 – 5320MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6212.13	44.77	7.53	10.56	62.85	Peak Max	H	284.00	150.00	74.00	-11.15	Pass
11917.40	41.75	12.20	8.47	62.43	Peak Max	V	198.00	55.00	74.00	-11.57	Pass
17405.42	40.67	12.81	10.11	63.59	Peak Max	H	158.00	198.00	74.00	-10.41	Pass
6212.13	31.41	7.53	10.56	49.50	Average Max	H	284.00	150.00	54.00	-4.50	Pass
11917.40	28.42	12.20	8.47	49.09	Average Max	V	198.00	55.00	54.00	-4.91	Pass
17405.42	26.60	12.81	10.11	49.53	Average Max	H	158.00	198.00	54.00	-4.47	Pass

Omnidirectional Antenna : 5.3 GHz

802.11n40 – 5270MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1886.71	38.96	3.20	10.57	52.73	Peak Max	H	172.00	315.00	74.00	-21.27	Pass
3505.29	36.94	5.50	10.34	52.79	Peak Max	H	180.00	17.00	74.00	-21.21	Pass
17659.82	39.89	13.00	10.56	63.45	Peak Max	V	148.00	124.00	74.00	-10.55	Pass
1886.71	25.38	3.20	10.57	39.16	Average Max	H	172.00	315.00	54.00	-14.84	Pass
3505.29	23.67	5.50	10.34	39.51	Average Max	H	180.00	17.00	54.00	-14.49	Pass
17659.82	27.01	13.00	10.56	50.57	Average Max	V	148.00	124.00	54.00	-3.43	Pass

802.11n40 – 5310MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17916.17	37.42	13.00	10.82	61.25	Peak Max	H	272.00	118.00	74.00	-12.75	Pass
14489.07	39.11	13.09	8.40	60.60	Peak Max	V	254.00	170.00	74.00	-13.40	Pass
4083.94	35.10	5.90	11.86	52.86	Peak Max	H	253.00	350.00	74.00	-21.14	Pass
17916.17	24.08	13.00	10.82	47.90	Average Max	H	272.00	118.00	54.00	-6.10	Pass
14489.07	26.16	13.09	8.40	47.64	Average Max	V	254.00	170.00	54.00	-6.36	Pass
4083.94	22.16	5.90	11.86	39.92	Average Max	H	253.00	350.00	54.00	-14.08	Pass

Omnidirectional Antenna : 5.3 GHz 802.11ac80

802.11ac80 – 5290MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17863.89	37.17	13.00	10.77	60.94	Peak Max	V	243.00	321.00	74.00	-13.06	Pass
14610.49	39.22	13.30	8.12	60.64	Peak Max	H	299.00	359.00	74.00	-13.36	Pass
4151.43	35.84	5.96	11.57	53.36	Peak Max	H	249.00	317.00	74.00	-20.64	Pass
17863.89	24.09	13.00	10.77	47.86	Average Max	V	243.00	321.00	54.00	-6.14	Pass
14610.49	26.59	13.30	8.12	48.01	Average Max	H	299.00	359.00	54.00	-5.99	Pass
4151.43	22.59	5.96	11.57	40.12	Average Max	H	249.00	317.00	54.00	-13.88	Pass

Omnidirectional Antenna : 5.5 GHz

802.11a – 5500MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6176.96	44.18	7.42	10.64	62.24	Peak Max	V	248.00	289.00	74.00	-11.76	Pass
17708.87	40.15	13.00	10.61	63.76	Peak Max	V	289.00	81.00	74.00	-10.24	Pass
14526.24	42.39	13.15	8.35	63.88	Peak Max	H	188.00	76.00	74.00	-10.12	Pass
6176.96	31.51	7.42	10.64	49.57	Average Max	V	248.00	289.00	54.00	-4.43	Pass
17708.87	27.12	13.00	10.61	50.73	Average Max	V	289.00	81.00	54.00	-3.27	Pass
14526.24	29.15	13.15	8.35	50.65	Average Max	H	188.00	76.00	54.00	-3.35	Pass

802.11a – 5580MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17827.91	40.40	13.00	10.73	64.14	Peak Max	H	148.00	89.00	74.00	-9.86	Pass
14577.13	42.45	13.24	8.21	63.90	Peak Max	V	175.00	140.00	74.00	-10.10	Pass
4084.29	38.99	5.90	11.86	56.75	Peak Max	V	214.00	359.00	74.00	-17.25	Pass
17827.91	26.85	13.00	10.73	50.59	Average Max	H	148.00	89.00	54.00	-3.41	Pass
14577.13	29.53	13.24	8.21	50.98	Average Max	V	175.00	140.00	54.00	-3.02	Pass
4084.29	25.74	5.90	11.86	43.50	Average Max	V	214.00	359.00	54.00	-10.50	Pass

802.11a – 5700MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6244.96	44.64	7.62	10.48	62.75	Peak Max	V	164.00	284.00	74.00	-11.25	Pass
17675.73	40.69	13.00	10.58	64.27	Peak Max	V	214.00	42.00	74.00	-9.73	Pass
14543.15	42.41	13.18	8.30	63.89	Peak Max	H	264.00	222.00	74.00	-10.11	Pass
6244.96	31.64	7.62	10.48	49.75	Average Max	V	164.00	284.00	54.00	-4.25	Pass
17675.73	27.09	13.00	10.58	50.67	Average Max	V	214.00	42.00	54.00	-3.33	Pass
14543.15	29.26	13.18	8.30	50.74	Average Max	H	264.00	222.00	54.00	-3.26	Pass

Omnidirectional Antenna : 5.5 GHz

802.11n20 – 5500MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
5496.94	43.14	6.57	9.80	59.52	Peak Max	H	219.00	129.00	74.00	-14.48	Pass
3948.40	39.38	5.80	12.04	57.22	Peak Max	V	291.00	283.00	74.00	-16.78	Pass
17490.16	39.49	12.98	10.37	62.84	Peak Max	H	245.00	0.00	74.00	-11.16	Pass
5496.94	30.24	6.57	9.80	46.62	Average Max	H	219.00	129.00	54.00	-7.38	Pass
3948.40	25.49	5.80	12.04	43.33	Average Max	V	291.00	283.00	54.00	-10.67	Pass
17490.16	26.39	12.98	10.37	49.74	Average Max	H	245.00	0.00	54.00	-4.26	Pass

802.11n20 – 5580MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17726.08	40.02	13.00	10.63	63.65	Peak Max	H	225.00	240.00	74.00	-10.35	Pass
14611.73	42.73	13.30	8.12	64.15	Peak Max	H	203.00	81.00	74.00	-9.85	Pass
2139.92	40.93	3.87	11.04	55.84	Peak Max	H	196.00	64.00	74.00	-18.16	Pass
17726.08	27.15	13.00	10.63	50.78	Average Max	H	225.00	240.00	54.00	-3.22	Pass
14611.73	29.28	13.30	8.12	50.70	Average Max	H	203.00	81.00	54.00	-3.30	Pass
2139.92	27.93	3.87	11.04	42.84	Average Max	H	196.00	64.00	54.00	-11.16	Pass

802.11n20 – 5700MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17864.16	40.94	13.00	10.77	64.71	Peak Max	H	165.00	330.00	74.00	-9.29	Pass
6145.27	44.43	7.33	10.72	62.48	Peak Max	V	173.00	359.00	74.00	-11.52	Pass
14747.41	42.78	13.54	7.76	64.08	Peak Max	H	272.00	13.00	74.00	-9.92	Pass
17864.16	26.69	13.00	10.77	50.46	Average Max	H	165.00	330.00	54.00	-3.54	Pass
6145.27	31.19	7.33	10.72	49.23	Average Max	V	173.00	359.00	54.00	-4.77	Pass
14747.41	28.96	13.54	7.76	50.26	Average Max	H	272.00	13.00	54.00	-3.74	Pass

Omnidirectional Antenna : 5.5 GHz

802.11n40 – 5510MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1734.32	34.73	3.02	9.38	47.12	Peak Max	H	192.00	345.00	74.00	-26.88	Pass
17762.79	36.93	13.00	10.67	60.60	Peak Max	H	292.00	151.00	74.00	-13.40	Pass
4084.76	35.49	5.90	11.85	53.24	Peak Max	H	212.00	166.00	74.00	-20.76	Pass
1734.32	21.95	3.02	9.38	34.35	Average Max	H	192.00	345.00	54.00	-19.65	Pass
17762.79	24.26	13.00	10.67	47.93	Average Max	H	292.00	151.00	54.00	-6.07	Pass
4084.76	22.40	5.90	11.85	40.16	Average Max	H	212.00	166.00	54.00	-13.84	Pass

802.11n40 – 5590MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14713.70	39.66	13.48	7.85	60.99	Peak Max	H	160.00	51.00	74.00	-13.01	Pass
17998.77	37.80	13.00	10.91	61.70	Peak Max	V	264.00	358.00	74.00	-12.30	Pass
2006.78	37.69	3.36	11.46	52.51	Peak Max	V	180.00	3.00	74.00	-21.49	Pass
14713.70	26.29	13.48	7.85	47.62	Average Max	H	160.00	51.00	54.00	-6.38	Pass
17998.77	24.02	13.00	10.91	47.93	Average Max	V	264.00	358.00	54.00	-6.07	Pass
2006.78	24.61	3.36	11.46	39.43	Average Max	V	180.00	3.00	54.00	-14.57	Pass

802.11n40 – 5670MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1748.28	34.38	3.04	9.40	46.81	Peak Max	V	294.00	359.00	74.00	-27.19	Pass
14782.43	39.40	13.60	7.67	60.67	Peak Max	H	219.00	296.00	74.00	-13.33	Pass
17746.09	36.80	13.00	10.65	60.45	Peak Max	V	191.00	336.00	74.00	-13.55	Pass
1748.28	21.40	3.04	9.40	33.83	Average Max	V	294.00	359.00	54.00	-20.17	Pass
14782.43	26.61	13.60	7.67	47.88	Average Max	H	219.00	296.00	54.00	-6.12	Pass
17746.09	24.29	13.00	10.65	47.94	Average Max	V	191.00	336.00	54.00	-6.06	Pass

Omnidirectional Antenna : 5.5 GHz

802.11ac80 – 5530MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17846.21	36.92	13.00	10.75	60.67	Peak Max	H	165.00	314.00	74.00	-13.33	Pass
14710.62	39.66	13.47	7.86	60.99	Peak Max	H	269.00	77.00	74.00	-13.01	Pass
4082.47	35.23	5.90	11.86	52.99	Peak Max	H	284.00	261.00	74.00	-21.01	Pass
17846.21	24.02	13.00	10.75	47.77	Average Max	H	165.00	314.00	54.00	-6.23	Pass
14710.62	26.28	13.47	7.86	47.61	Average Max	H	269.00	77.00	54.00	-6.39	Pass
4082.47	22.18	5.90	11.86	39.95	Average Max	H	284.00	261.00	54.00	-14.05	Pass

802.11ac80 – 5610MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17642.30	37.07	13.00	10.54	60.61	Peak Max	V	205.00	2.00	74.00	-13.39	Pass
14506.30	39.23	13.11	8.40	60.74	Peak Max	H	159.00	91.00	74.00	-13.26	Pass
4118.72	35.08	5.93	11.71	52.72	Peak Max	V	252.00	198.00	74.00	-21.28	Pass
17642.30	24.29	13.00	10.54	47.83	Average Max	V	205.00	2.00	54.00	-6.17	Pass
14506.30	26.38	13.11	8.40	47.89	Average Max	H	159.00	91.00	54.00	-6.11	Pass
4118.72	22.48	5.93	11.71	40.12	Average Max	V	252.00	198.00	54.00	-13.88	Pass

802.11ac80 – 5690MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17813.98	37.44	13.00	10.72	61.16	Peak Max	V	260.00	301.00	74.00	-12.84	Pass
9944.65	37.42	11.29	8.61	57.31	Peak Max	V	159.00	359.00	74.00	-16.69	Pass
4152.96	35.32	5.96	11.56	52.84	Peak Max	H	165.00	63.00	74.00	-21.16	Pass
17813.98	24.10	13.00	10.72	47.82	Average Max	V	260.00	301.00	54.00	-6.18	Pass
9944.65	24.63	11.29	8.61	44.52	Average Max	V	159.00	359.00	54.00	-9.48	Pass
4152.96	22.84	5.96	11.56	40.36	Average Max	H	165.00	63.00	54.00	-13.64	Pass

Omnidirectional Antenna : 5.8 GHz

802.11a – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1750.14	38.44	3.04	9.40	50.88	Peak Max	H	240.00	216.00	74.00	-23.12	Pass
17794.51	40.01	13.00	10.70	63.71	Peak Max	V	157.00	244.00	74.00	-10.29	Pass
6214.19	44.48	7.53	10.55	62.57	Peak Max	H	237.00	130.00	74.00	-11.43	Pass
1750.14	24.95	3.04	9.40	37.39	Average Max	H	240.00	216.00	54.00	-16.61	Pass
17794.51	26.78	13.00	10.70	50.48	Average Max	V	157.00	244.00	54.00	-3.52	Pass
6214.19	31.64	7.53	10.55	49.73	Average Max	H	237.00	130.00	54.00	-4.27	Pass

802.11a – 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1733.11	39.63	3.02	9.38	52.03	Peak Max	H	290.00	0.00	74.00	-21.97	Pass
1887.52	51.39	3.20	10.58	65.17	Peak Max	H	225.00	277.00	74.00	-8.83	Pass
6230.60	45.86	7.58	10.51	63.96	Peak Max	V	176.00	91.00	74.00	-10.04	Pass
1733.11	25.51	3.02	9.38	37.90	Average Max	H	290.00	0.00	54.00	-16.10	Pass
1887.52	25.50	3.20	10.58	39.28	Average Max	H	225.00	277.00	54.00	-14.72	Pass
6230.60	31.66	7.58	10.51	49.76	Average Max	V	176.00	91.00	54.00	-4.24	Pass

802.11a – 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1748.36	38.09	3.04	9.40	50.52	Peak Max	V	268.00	258.00	74.00	-23.48	Pass
6296.72	44.10	7.78	10.36	62.24	Peak Max	H	148.00	0.00	74.00	-11.76	Pass
14849.98	42.38	13.72	7.49	63.59	Peak Max	V	196.00	195.00	74.00	-10.41	Pass
1748.36	24.81	3.04	9.40	37.24	Average Max	V	268.00	258.00	54.00	-16.76	Pass
6296.72	30.91	7.78	10.36	49.04	Average Max	H	148.00	0.00	54.00	-4.96	Pass
14849.98	29.50	13.72	7.49	50.71	Average Max	V	196.00	195.00	54.00	-3.29	Pass

Omnidirectional Antenna : 5.8 GHz

802.11n20 – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2448.55	39.30	4.94	10.16	54.40	Peak Max	H	287.00	301.00	74.00	-19.60	Pass
17711.19	40.96	13.00	10.62	64.58	Peak Max	H	295.00	192.00	74.00	-9.42	Pass
4118.93	38.50	5.93	11.71	56.14	Peak Max	V	168.00	267.00	74.00	-17.86	Pass
2448.55	26.04	4.94	10.16	41.13	Average Max	H	287.00	301.00	54.00	-12.87	Pass
17711.19	27.04	13.00	10.62	50.65	Average Max	H	295.00	192.00	54.00	-3.35	Pass
4118.93	25.47	5.93	11.71	43.11	Average Max	V	168.00	267.00	54.00	-10.89	Pass

802.11n20 – 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6467.84	44.58	8.28	9.96	62.82	Peak Max	H	168.00	139.00	74.00	-11.18	Pass
17948.33	40.38	13.00	10.86	64.24	Peak Max	H	159.00	359.00	74.00	-9.76	Pass
14745.64	42.28	13.54	7.76	63.58	Peak Max	H	148.00	147.00	74.00	-10.42	Pass
6467.84	31.46	8.28	9.96	49.70	Average Max	H	168.00	139.00	54.00	-4.30	Pass
17948.33	26.70	13.00	10.86	50.56	Average Max	H	159.00	359.00	54.00	-3.44	Pass
14745.64	28.95	13.54	7.76	50.25	Average Max	H	148.00	147.00	54.00	-3.75	Pass

802.11n20 – 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6146.07	44.72	7.33	10.71	62.76	Peak Max	V	279.00	289.00	74.00	-11.24	Pass
14540.89	42.53	13.17	8.31	64.01	Peak Max	V	213.00	146.00	74.00	-9.99	Pass
17932.02	39.73	13.00	10.84	63.57	Peak Max	H	259.00	314.00	74.00	-10.43	Pass
6146.07	31.19	7.33	10.71	49.23	Average Max	V	279.00	289.00	54.00	-4.77	Pass
14540.89	29.15	13.17	8.31	50.64	Average Max	V	213.00	146.00	54.00	-3.36	Pass
17932.02	26.70	13.00	10.84	50.54	Average Max	H	259.00	314.00	54.00	-3.46	Pass

Omnidirectional Antenna : 5.8 GHz

802.11n40 – 5755MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17915.05	37.16	13.00	10.82	60.99	Peak Max	V	222.00	215.00	74.00	-13.01	Pass
13213.71	39.76	12.15	8.01	59.93	Peak Max	V	193.00	40.00	74.00	-14.07	Pass
4186.12	34.77	5.99	11.42	52.17	Peak Max	H	191.00	38.00	74.00	-21.83	Pass
17915.05	24.04	13.00	10.82	47.86	Average Max	V	222.00	215.00	54.00	-6.14	Pass
13213.71	26.64	12.15	8.01	46.81	Average Max	V	193.00	40.00	54.00	-7.19	Pass
4186.12	22.14	5.99	11.42	39.54	Average Max	H	191.00	38.00	54.00	-14.46	Pass

802.11n40 – 5795MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17846.69	37.16	13.00	10.82	59.99	Peak Max	V	222.00	215.00	74.00	-14.01	Pass
14763.53	39.76	12.15	8.01	58.93	Peak Max	V	193.00	40.00	74.00	-15.07	Pass
4117.23	34.77	5.99	11.42	51.17	Peak Max	H	191.00	38.00	74.00	-22.83	Pass
17846.69	24.04	13.00	10.82	46.86	Average Max	V	222.00	215.00	54.00	-7.14	Pass
14763.53	26.64	12.15	8.01	45.81	Average Max	V	193.00	40.00	54.00	-8.19	Pass
4117.23	22.14	5.99	11.42	38.54	Average Max	H	191.00	38.00	54.00	-15.46	Pass

802.11ac80 – 5775MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17729.23	37.19	13.00	10.63	60.83	Peak Max	V	178.00	359.00	74.00	-13.17	Pass
6159.68	41.69	7.37	10.68	59.74	Peak Max	V	278.00	161.00	74.00	-14.26	Pass
14592.29	40.24	13.26	8.17	61.68	Peak Max	H	237.00	209.00	74.00	-12.32	Pass
17729.23	24.51	13.00	10.63	48.15	Average Max	V	178.00	359.00	54.00	-5.85	Pass
6159.68	27.99	7.37	10.68	46.04	Average Max	V	278.00	161.00	54.00	-7.96	Pass
14592.29	26.60	13.26	8.17	48.04	Average Max	H	237.00	209.00	54.00	-5.96	Pass

Radiated Emission Test Results (Above 1GHz)

Patch Antenna : 5.2 GHz

802.11a – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
11661.75	38.88	12.18	8.18	59.24	Peak Max	H	275.00	183.00	74.00	-14.76	Pass
4030.22	35.84	5.86	12.09	53.79	Peak Max	V	197.00	115.00	74.00	-20.21	Pass
1986.52	37.05	3.32	11.37	51.74	Peak Max	V	231.00	312.00	74.00	-22.26	Pass
11661.75	25.87	12.18	8.18	46.23	Average Max	H	275.00	183.00	54.00	-7.77	Pass
4030.22	23.19	5.86	12.09	41.14	Average Max	V	197.00	115.00	54.00	-12.86	Pass
1986.52	24.35	3.32	11.37	39.04	Average Max	V	231.00	312.00	54.00	-14.96	Pass

802.11a – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17930.49	36.90	13.00	10.84	60.74	Peak Max	H	157.00	35.00	74.00	-13.26	Pass
14798.42	39.92	13.63	7.63	61.17	Peak Max	V	259.00	166.00	74.00	-12.83	Pass
2226.38	37.01	4.18	10.78	51.97	Peak Max	V	218.00	189.00	74.00	-22.03	Pass
17930.49	24.19	13.00	10.84	48.02	Average Max	H	157.00	35.00	54.00	-5.98	Pass
14798.42	26.64	13.63	7.63	47.89	Average Max	V	259.00	166.00	54.00	-6.11	Pass
2226.38	23.81	4.18	10.78	38.77	Average Max	V	218.00	189.00	54.00	-15.23	Pass

802.11a – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17831.28	36.40	13.00	10.74	60.14	Peak Max	H	174.00	176.00	74.00	-13.86	Pass
6245.81	41.22	7.63	10.48	59.33	Peak Max	H	196.00	298.00	74.00	-14.67	Pass
2023.59	36.41	3.42	11.40	51.24	Peak Max	H	153.00	359.00	74.00	-22.76	Pass
17831.28	24.21	13.00	10.74	47.95	Average Max	H	174.00	176.00	54.00	-6.05	Pass
6245.81	28.23	7.63	10.48	46.33	Average Max	H	196.00	298.00	54.00	-7.67	Pass
2023.59	23.62	3.42	11.40	38.45	Average Max	H	153.00	359.00	54.00	-15.55	Pass

Patch Antenna : 5.2 GHz

802.11n20 – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17861.86	37.04	13.00	10.77	60.81	Peak Max	H	276.00	109.00	74.00	-13.19	Pass
12342.84	38.47	12.78	8.42	59.67	Peak Max	V	201.00	158.00	74.00	-14.33	Pass
4132.36	35.33	5.94	11.65	52.92	Peak Max	H	198.00	237.00	74.00	-21.08	Pass
17861.86	24.06	13.00	10.77	47.82	Average Max	H	276.00	109.00	54.00	-6.18	Pass
12342.84	25.81	12.78	8.42	47.02	Average Max	V	201.00	158.00	54.00	-6.98	Pass
4132.36	22.71	5.94	11.65	40.30	Average Max	H	198.00	237.00	54.00	-13.70	Pass

802.11n20 – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17930.76	36.90	13.00	10.84	60.74	Peak Max	H	183.00	13.00	74.00	-13.26	Pass
6279.66	40.45	7.73	10.40	58.58	Peak Max	V	202.00	196.00	74.00	-15.42	Pass
2091.94	38.75	3.69	11.19	53.62	Peak Max	H	257.00	358.00	74.00	-20.38	Pass
17930.76	24.06	13.00	10.84	47.90	Average Max	H	183.00	13.00	54.00	-6.10	Pass
6279.66	27.49	7.73	10.40	45.61	Average Max	V	202.00	196.00	54.00	-8.39	Pass
2091.94	25.08	3.69	11.19	39.95	Average Max	H	257.00	358.00	54.00	-14.05	Pass

802.11n20 – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17896.69	36.91	13.00	10.80	60.71	Peak Max	H	286.00	163.00	74.00	-13.29	Pass
6247.48	40.96	7.63	10.47	59.07	Peak Max	V	261.00	346.00	74.00	-14.93	Pass
4065.61	35.48	5.89	11.94	53.31	Peak Max	H	163.00	360.00	74.00	-20.69	Pass
17896.69	24.13	13.00	10.80	47.94	Average Max	H	286.00	163.00	54.00	-6.06	Pass
6247.48	28.03	7.63	10.47	46.13	Average Max	V	261.00	346.00	54.00	-7.87	Pass
4065.61	22.19	5.89	11.94	40.01	Average Max	H	163.00	360.00	54.00	-13.99	Pass

Patch Antenna : 5.2 GHz

802.11n40 – 5190MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17727.84	37.46	13.00	10.63	61.09	Peak Max	V	248.00	342.00	74.00	-12.91	Pass
12686.19	38.09	12.65	8.40	59.14	Peak Max	H	265.00	206.00	74.00	-14.86	Pass
3998.70	35.12	5.83	12.22	53.17	Peak Max	H	189.00	349.00	74.00	-20.83	Pass
17727.84	24.56	13.00	10.63	48.19	Average Max	V	248.00	342.00	54.00	-5.81	Pass
12686.19	25.78	12.65	8.40	46.83	Average Max	H	265.00	206.00	54.00	-7.17	Pass
3998.70	22.64	5.83	12.22	40.70	Average Max	H	189.00	349.00	54.00	-13.30	Pass

802.11n40 – 5230MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17896.46	37.82	13.00	10.80	61.62	Peak Max	V	280.00	-3.00	74.00	-12.38	Pass
1717.27	34.82	3.00	9.36	47.18	Peak Max	H	165.00	315.00	74.00	-26.82	Pass
6483.46	40.87	8.32	9.93	59.12	Peak Max	V	185.00	351.00	74.00	-14.88	Pass
17896.46	24.18	13.00	10.80	47.99	Average Max	V	280.00	-3.00	54.00	-6.01	Pass
1717.27	22.15	3.00	9.36	34.51	Average Max	H	165.00	315.00	54.00	-19.49	Pass
6483.46	27.48	8.32	9.93	45.73	Average Max	V	185.00	351.00	54.00	-8.27	Pass

802.11ac-80M – 5210MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6211.62	41.33	7.53	10.56	59.42	Peak Max	H	160.00	188.00	74.00	-14.58	Pass
17828.45	36.66	13.00	10.73	60.39	Peak Max	H	156.00	358.00	74.00	-13.61	Pass
14662.83	39.77	13.39	7.98	61.14	Peak Max	V	180.00	167.00	74.00	-12.86	Pass
6211.62	27.90	7.53	10.56	45.98	Average Max	H	160.00	188.00	54.00	-8.02	Pass
17828.45	24.19	13.00	10.73	47.93	Average Max	H	156.00	358.00	54.00	-6.07	Pass
14662.83	26.24	13.39	7.98	47.61	Average Max	V	180.00	167.00	54.00	-6.39	Pass

Patch Antenna : 5.3 GHz

802.11a – 5260MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4066.67	36.40	5.89	11.93	54.22	Peak Max	H	146.00	66.00	74.00	-19.78	Pass
17692.48	37.46	13.00	10.60	61.05	Peak Max	H	272.00	168.00	74.00	-12.95	Pass
6213.74	41.07	7.53	10.55	59.16	Peak Max	V	254.00	324.00	74.00	-14.84	Pass
4066.67	22.59	5.89	11.93	40.41	Average Max	H	146.00	66.00	54.00	-13.59	Pass
17692.48	24.41	13.00	10.60	48.01	Average Max	H	272.00	168.00	54.00	-5.99	Pass
6213.74	28.01	7.53	10.55	46.09	Average Max	V	254.00	324.00	54.00	-7.91	Pass

802.11a – 5300MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17895.80	36.78	13.00	10.80	60.58	Peak Max	H	209.00	228.00	74.00	-13.42	Pass
12685.09	38.61	12.65	8.40	59.66	Peak Max	V	287.00	33.00	74.00	-14.34	Pass
2124.44	37.17	3.81	11.08	52.07	Peak Max	V	147.00	32.00	74.00	-21.93	Pass
17895.80	24.17	13.00	10.80	47.97	Average Max	H	209.00	228.00	54.00	-6.03	Pass
12685.09	25.78	12.65	8.40	46.83	Average Max	V	287.00	33.00	54.00	-7.17	Pass
2124.44	24.46	3.81	11.08	39.35	Average Max	V	147.00	32.00	54.00	-14.65	Pass

802.11a – 5320MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14560.13	40.21	13.21	8.26	61.67	Peak Max	H	252.00	215.00	74.00	-12.33	Pass
17932.14	36.90	13.00	10.84	60.74	Peak Max	V	204.00	176.00	74.00	-13.26	Pass
4100.73	36.13	5.92	11.78	53.83	Peak Max	V	208.00	222.00	74.00	-20.17	Pass
14560.13	26.59	13.21	8.26	48.06	Average Max	H	252.00	215.00	54.00	-5.94	Pass
17932.14	24.13	13.00	10.84	47.97	Average Max	V	204.00	176.00	54.00	-6.03	Pass
4100.73	22.48	5.92	11.78	40.18	Average Max	V	208.00	222.00	54.00	-13.82	Pass

Patch Antenna : 5.3 GHz

802.11n20 – 5260MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17828.95	36.92	13.00	10.74	60.66	Peak Max	V	228.00	302.00	74.00	-13.34	Pass
14797.86	39.52	13.63	7.63	60.78	Peak Max	H	248.00	317.00	74.00	-13.22	Pass
3486.23	34.78	5.50	10.31	50.59	Peak Max	H	207.00	216.00	74.00	-23.41	Pass
17828.95	24.17	13.00	10.74	47.90	Average Max	V	228.00	302.00	54.00	-6.10	Pass
14797.86	26.53	13.63	7.63	47.78	Average Max	H	248.00	317.00	54.00	-6.22	Pass
3486.23	21.50	5.50	10.31	37.31	Average Max	H	207.00	216.00	54.00	-16.69	Pass

802.11n20 – 5300MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17964.65	36.50	13.00	10.87	60.38	Peak Max	H	163.00	30.00	74.00	-13.62	Pass
6349.26	40.85	7.93	10.24	59.02	Peak Max	H	206.00	175.00	74.00	-14.98	Pass
1986.23	37.84	3.31	11.37	52.52	Peak Max	H	177.00	104.00	74.00	-21.48	Pass
17964.65	23.98	13.00	10.87	47.85	Average Max	H	163.00	30.00	54.00	-6.15	Pass
6349.26	28.03	7.93	10.24	46.20	Average Max	H	206.00	175.00	54.00	-7.80	Pass
1986.23	24.47	3.31	11.37	39.16	Average Max	H	177.00	104.00	54.00	-14.84	Pass

802.11n20 – 5320MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14593.30	39.07	13.27	8.17	60.51	Peak Max	V	171.00	286.00	74.00	-13.49	Pass
17555.30	37.58	13.00	10.45	61.03	Peak Max	H	289.00	175.00	74.00	-12.97	Pass
2091.35	37.97	3.68	11.19	52.84	Peak Max	V	195.00	359.00	74.00	-21.16	Pass
14593.30	26.55	13.27	8.17	47.98	Average Max	V	171.00	286.00	54.00	-6.02	Pass
17555.30	23.80	13.00	10.45	47.25	Average Max	H	289.00	175.00	54.00	-6.75	Pass
2091.35	25.13	3.68	11.19	40.00	Average Max	V	195.00	359.00	54.00	-14.00	Pass

Patch Antenna : 5.3 GHz

802.11n40 – 5270MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17862.38	36.91	13.00	10.77	60.68	Peak Max	V	221.00	111.00	74.00	-13.32	Pass
6451.80	41.44	8.23	10.00	59.67	Peak Max	H	148.00	179.00	74.00	-14.33	Pass
14558.10	39.43	13.20	8.26	60.89	Peak Max	H	213.00	359.00	74.00	-13.11	Pass
17862.38	24.14	13.00	10.77	47.90	Average Max	V	221.00	111.00	54.00	-6.10	Pass
6451.80	28.14	8.23	10.00	46.37	Average Max	H	148.00	179.00	54.00	-7.63	Pass
14558.10	26.59	13.20	8.26	48.05	Average Max	H	213.00	359.00	54.00	-5.95	Pass

802.11n40 – 5310MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17864.93	36.78	13.00	10.77	60.56	Peak Max	H	197.00	110.00	74.00	-13.44	Pass
13743.19	39.38	12.52	7.38	59.28	Peak Max	H	206.00	285.00	74.00	-14.72	Pass
4030.14	35.97	5.86	12.09	53.92	Peak Max	H	257.00	191.00	74.00	-20.08	Pass
17864.93	24.14	13.00	10.77	47.92	Average Max	H	197.00	110.00	54.00	-6.08	Pass
13743.19	26.65	12.52	7.38	46.55	Average Max	H	206.00	285.00	54.00	-7.45	Pass
4030.14	22.84	5.86	12.09	40.79	Average Max	H	257.00	191.00	54.00	-13.21	Pass

802.11ac80 – 5290MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1035.62	40.13	2.46	9.62	52.21	Peak Max	V	280.00	34.00	74.00	-21.79	Pass
12481.79	38.33	13.01	8.37	59.71	Peak Max	V	174.00	118.00	74.00	-14.29	Pass
2088.41	38.88	3.67	11.20	53.75	Peak Max	V	284.00	195.00	74.00	-20.25	Pass
1035.62	27.17	2.46	9.62	39.25	Average Max	V	280.00	34.00	54.00	-14.75	Pass
12481.79	25.75	13.01	8.37	47.13	Average Max	V	174.00	118.00	54.00	-6.87	Pass
2088.41	25.90	3.67	11.20	40.77	Average Max	V	284.00	195.00	54.00	-13.23	Pass

Patch Antenna : 5.5 GHz

802.11a – 5500MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17899.49	37.17	13.00	10.81	60.97	Peak Max	V	229.00	1.00	74.00	-13.03	Pass
14593.07	39.20	13.27	8.17	60.64	Peak Max	V	201.00	49.00	74.00	-13.36	Pass
4067.17	35.35	5.89	11.93	53.17	Peak Max	V	255.00	27.00	74.00	-20.83	Pass
17899.49	24.07	13.00	10.81	47.88	Average Max	V	229.00	1.00	54.00	-6.12	Pass
14593.07	26.56	13.27	8.17	47.99	Average Max	V	201.00	49.00	54.00	-6.01	Pass
4067.17	22.50	5.89	11.93	40.32	Average Max	V	255.00	27.00	54.00	-13.68	Pass

802.11a – 5580MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1001.12	41.43	2.44	9.68	53.55	Peak Max	V	231.00	321.00	74.00	-20.45	Pass
2090.90	38.62	3.68	11.19	53.49	Peak Max	V	220.00	124.00	74.00	-20.51	Pass
6210.80	40.94	7.52	10.56	59.02	Peak Max	H	158.00	107.00	74.00	-14.98	Pass
1001.12	28.84	2.44	9.68	40.96	Average Max	V	231.00	321.00	54.00	-13.04	Pass
2090.90	25.54	3.68	11.19	40.41	Average Max	V	220.00	124.00	54.00	-13.59	Pass
6210.80	28.05	7.52	10.56	46.14	Average Max	H	158.00	107.00	54.00	-7.86	Pass

802.11a – 5700MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17793.80	36.93	13.00	10.70	60.63	Peak Max	H	191.00	331.00	74.00	-13.37	Pass
4101.64	35.48	5.92	11.78	53.18	Peak Max	H	153.00	50.00	74.00	-20.82	Pass
6382.24	40.98	8.03	10.16	59.17	Peak Max	V	184.00	359.00	74.00	-14.83	Pass
17793.80	24.05	13.00	10.70	47.75	Average Max	H	191.00	331.00	54.00	-6.25	Pass
4101.64	22.49	5.92	11.78	40.19	Average Max	H	153.00	50.00	54.00	-13.81	Pass
6382.24	27.95	8.03	10.16	46.14	Average Max	V	184.00	359.00	54.00	-7.86	Pass

Patch Antenna : 5.5 GHz

802.11n20 – 5500MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1000.93	37.66	2.44	9.68	49.77	Peak Max	H	248.00	47.00	74.00	-24.23	Pass
6245.93	40.70	7.63	10.48	58.81	Peak Max	V	282.00	-4.00	74.00	-15.19	Pass
2122.49	37.43	3.80	11.09	52.33	Peak Max	V	225.00	271.00	74.00	-21.67	Pass
1000.93	24.96	2.44	9.68	37.07	Average Max	H	248.00	47.00	54.00	-16.93	Pass
6245.93	28.30	7.63	10.48	46.40	Average Max	V	282.00	-4.00	54.00	-7.60	Pass
2122.49	25.17	3.80	11.09	40.06	Average Max	V	225.00	271.00	54.00	-13.94	Pass

802.11n20 – 5580MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17557.13	36.54	13.00	10.46	59.99	Peak Max	H	299.00	347.00	74.00	-14.01	Pass
14730.91	39.14	13.51	7.80	60.45	Peak Max	H	194.00	119.00	74.00	-13.55	Pass
1069.90	37.27	2.48	9.57	49.32	Peak Max	H	147.00	133.00	74.00	-24.68	Pass
17557.13	23.91	13.00	10.46	47.36	Average Max	H	299.00	347.00	54.00	-6.64	Pass
14730.91	26.37	13.51	7.80	47.68	Average Max	H	194.00	119.00	54.00	-6.32	Pass
1069.90	24.47	2.48	9.57	36.52	Average Max	H	147.00	133.00	54.00	-17.48	Pass

802.11n20 – 5700MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1717.09	34.95	3.00	9.36	47.31	Peak Max	V	204.00	348.00	74.00	-26.69	Pass
14594.31	39.20	13.27	8.17	60.64	Peak Max	H	248.00	277.00	74.00	-13.36	Pass
6248.07	40.83	7.63	10.47	58.94	Peak Max	H	187.00	60.00	74.00	-15.06	Pass
1717.09	22.16	3.00	9.36	34.51	Average Max	V	204.00	348.00	54.00	-19.49	Pass
14594.31	26.61	13.27	8.17	48.05	Average Max	H	248.00	277.00	54.00	-5.95	Pass
6248.07	28.22	7.63	10.47	46.32	Average Max	H	187.00	60.00	54.00	-7.68	Pass

Patch Antenna : 5.5 GHz

802.11n40 – 5510MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4065.13	35.09	5.89	11.94	52.92	Peak Max	V	206.00	308.00	74.00	-21.08	Pass
12274.80	38.34	12.67	8.45	59.46	Peak Max	V	204.00	291.00	74.00	-14.54	Pass
2054.17	37.59	3.54	11.30	52.43	Peak Max	H	168.00	100.00	74.00	-21.57	Pass
4065.13	22.72	5.89	11.94	40.54	Average Max	V	206.00	308.00	54.00	-13.46	Pass
12274.80	25.24	12.67	8.45	46.36	Average Max	V	204.00	291.00	54.00	-7.64	Pass
2054.17	24.92	3.54	11.30	39.76	Average Max	H	168.00	100.00	54.00	-14.24	Pass

802.11n40 – 5590MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6315.80	40.72	7.83	10.31	58.87	Peak Max	V	179.00	0.00	74.00	-15.13	Pass
17692.89	37.33	13.00	10.60	60.92	Peak Max	H	220.00	316.00	74.00	-13.08	Pass
4032.59	36.24	5.86	12.08	54.18	Peak Max	H	179.00	231.00	74.00	-19.82	Pass
6315.80	28.01	7.83	10.31	46.16	Average Max	V	179.00	0.00	54.00	-7.84	Pass
17692.89	24.43	13.00	10.60	48.02	Average Max	H	220.00	316.00	54.00	-5.98	Pass
4032.59	22.91	5.86	12.08	40.86	Average Max	H	179.00	231.00	54.00	-13.14	Pass

802.11n40 – 5670MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17726.59	37.59	13.00	10.63	61.22	Peak Max	V	147.00	358.00	74.00	-12.78	Pass
14592.16	39.33	13.26	8.17	60.77	Peak Max	H	228.00	171.00	74.00	-13.23	Pass
3961.98	35.62	5.81	12.09	53.52	Peak Max	V	162.00	26.00	74.00	-20.48	Pass
17726.59	24.53	13.00	10.63	48.16	Average Max	V	147.00	358.00	54.00	-5.84	Pass
14592.16	26.60	13.26	8.17	48.04	Average Max	H	228.00	171.00	54.00	-5.96	Pass
3961.98	22.77	5.81	12.09	40.67	Average Max	V	162.00	26.00	54.00	-13.33	Pass

Patch Antenna : 5.5 GHz

802.11ac80 – 5530MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14797.03	39.39	13.63	7.63	60.65	Peak Max	V	254.00	83.00	74.00	-13.35	Pass
1001.16	39.48	2.44	9.68	51.60	Peak Max	H	166.00	336.00	74.00	-22.40	Pass
3691.68	33.58	5.63	11.08	50.30	Peak Max	H	228.00	88.00	74.00	-23.70	Pass
14797.03	26.55	13.63	7.63	47.80	Average Max	V	254.00	83.00	54.00	-6.20	Pass
1001.16	26.83	2.44	9.68	38.95	Average Max	H	166.00	336.00	54.00	-15.05	Pass
3691.68	20.82	5.63	11.08	37.53	Average Max	H	228.00	88.00	54.00	-16.47	Pass

802.11ac80 – 5610MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17695.28	36.94	13.00	10.60	60.54	Peak Max	V	176.00	175.00	74.00	-13.46	Pass
14591.37	39.46	13.26	8.17	60.90	Peak Max	H	280.00	84.00	74.00	-13.10	Pass
4034.01	35.20	5.86	12.08	53.13	Peak Max	V	153.00	265.00	74.00	-20.87	Pass
17695.28	24.33	13.00	10.60	47.93	Average Max	V	176.00	175.00	54.00	-6.07	Pass
14591.37	26.64	13.26	8.17	48.07	Average Max	H	280.00	84.00	54.00	-5.93	Pass
4034.01	22.88	5.86	12.08	40.81	Average Max	V	153.00	265.00	54.00	-13.19	Pass

802.11ac80 – 5690MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
14865.68	39.11	13.75	7.45	60.30	Peak Max	V	158.00	71.00	74.00	-13.70	Pass
17420.23	36.91	12.84	10.16	59.91	Peak Max	H	274.00	134.00	74.00	-14.09	Pass
1001.52	37.01	2.44	9.68	49.12	Peak Max	V	197.00	44.00	74.00	-24.88	Pass
14865.68	26.50	13.75	7.45	47.70	Average Max	V	158.00	71.00	54.00	-6.30	Pass
17420.23	23.82	12.84	10.16	46.82	Average Max	H	274.00	134.00	54.00	-7.18	Pass
1001.52	24.50	2.44	9.68	36.62	Average Max	V	197.00	44.00	54.00	-17.38	Pass

Patch Antenna : 5.8 GHz

802.11a – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17933.13	37.29	13.00	10.84	61.13	Peak Max	H	182.00	4.00	74.00	-12.87	Pass
14659.95	38.99	13.38	7.99	60.36	Peak Max	V	288.00	215.00	74.00	-13.64	Pass
2227.53	36.62	4.18	10.78	51.58	Peak Max	V	264.00	194.00	74.00	-22.42	Pass
17933.13	24.07	13.00	10.84	47.91	Average Max	H	182.00	4.00	54.00	-6.09	Pass
14659.95	26.21	13.38	7.99	47.59	Average Max	V	288.00	215.00	54.00	-6.41	Pass
2227.53	23.90	4.18	10.78	38.86	Average Max	V	264.00	194.00	54.00	-15.14	Pass

802.11a – 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17590.39	36.94	13.00	10.49	60.43	Peak Max	H	280.00	81.00	74.00	-13.57	Pass
14967.13	38.51	13.92	7.18	59.62	Peak Max	V	288.00	358.00	74.00	-14.38	Pass
3862.02	34.73	5.74	11.73	52.20	Peak Max	H	263.00	256.00	74.00	-21.80	Pass
17590.39	23.96	13.00	10.49	47.45	Average Max	H	280.00	81.00	54.00	-6.55	Pass
14967.13	26.15	13.92	7.18	47.26	Average Max	V	288.00	358.00	54.00	-6.74	Pass
3862.02	21.97	5.74	11.73	39.44	Average Max	H	263.00	256.00	54.00	-14.56	Pass

802.11-a – 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17967.61	36.76	13.00	10.88	60.64	Peak Max	V	241.00	1.00	74.00	-13.36	Pass
14080.56	39.64	12.76	7.53	59.93	Peak Max	H	167.00	168.00	74.00	-14.07	Pass
4065.85	36.00	5.89	11.94	53.83	Peak Max	V	171.00	155.00	74.00	-20.17	Pass
17967.61	23.97	13.00	10.88	47.84	Average Max	V	241.00	1.00	54.00	-6.16	Pass
14080.56	26.85	12.76	7.53	47.14	Average Max	H	167.00	168.00	54.00	-6.86	Pass
4065.85	22.28	5.89	11.94	40.11	Average Max	V	171.00	155.00	54.00	-13.89	Pass

Patch Antenna : 5.8 GHz

802.11n-20 – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1716.98	34.95	3.00	9.36	47.31	Peak Max	V	226.00	342.00	74.00	-26.69	Pass
17965.36	37.15	13.00	10.87	61.03	Peak Max	V	264.00	187.00	74.00	-12.97	Pass
14559.04	39.30	13.21	8.26	60.76	Peak Max	V	192.00	67.00	74.00	-13.24	Pass
1716.98	22.01	3.00	9.36	34.36	Average Max	V	226.00	342.00	54.00	-19.64	Pass
17965.36	24.05	13.00	10.87	47.92	Average Max	V	264.00	187.00	54.00	-6.08	Pass
14559.04	26.60	13.21	8.26	48.06	Average Max	V	192.00	67.00	54.00	-5.94	Pass

802.11n-20 – 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
18000.97	93.05	0.00	-31.99	61.06	Peak Max	V	224.00	329.00	74.00	-12.94	Pass
14796.81	39.66	13.63	7.63	60.91	Peak Max	H	149.00	143.00	74.00	-13.09	Pass
2091.79	37.97	3.69	11.19	52.84	Peak Max	H	275.00	21.00	74.00	-21.16	Pass
18000.97	79.99	0.00	-31.99	47.99	Average Max	V	224.00	329.00	54.00	-6.01	Pass
14796.81	26.61	13.63	7.63	47.86	Average Max	H	149.00	143.00	54.00	-6.14	Pass
2091.79	25.22	3.69	11.19	40.09	Average Max	H	275.00	21.00	54.00	-13.91	Pass

802.11n-20 – 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1751.19	34.77	3.04	9.41	47.22	Peak Max	V	210.00	112.00	74.00	-26.78	Pass
6247.23	41.35	7.63	10.47	59.46	Peak Max	V	169.00	117.00	74.00	-14.54	Pass
17657.92	36.94	13.00	10.56	60.50	Peak Max	V	155.00	359.00	74.00	-13.50	Pass
1751.19	22.94	3.04	9.41	35.39	Average Max	V	210.00	112.00	54.00	-18.61	Pass
6247.23	28.16	7.63	10.47	46.27	Average Max	V	169.00	117.00	54.00	-7.73	Pass
17657.92	24.45	13.00	10.56	48.01	Average Max	V	155.00	359.00	54.00	-5.99	Pass

Patch Antenna : 5.8 GHz

802.11n-40 – 5755MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
6246.11	41.22	7.63	10.48	59.33	Peak Max	H	236.00	150.00	74.00	-14.67	Pass
17659.00	37.33	13.00	10.56	60.89	Peak Max	V	241.00	359.00	74.00	-13.11	Pass
2056.03	37.85	3.55	11.30	52.69	Peak Max	V	164.00	199.00	74.00	-21.31	Pass
6246.11	28.08	7.63	10.48	46.19	Average Max	H	236.00	150.00	54.00	-7.81	Pass
17659.00	24.43	13.00	10.56	47.99	Average Max	V	241.00	359.00	54.00	-6.01	Pass
2056.03	24.82	3.55	11.30	39.67	Average Max	V	164.00	199.00	54.00	-14.33	Pass

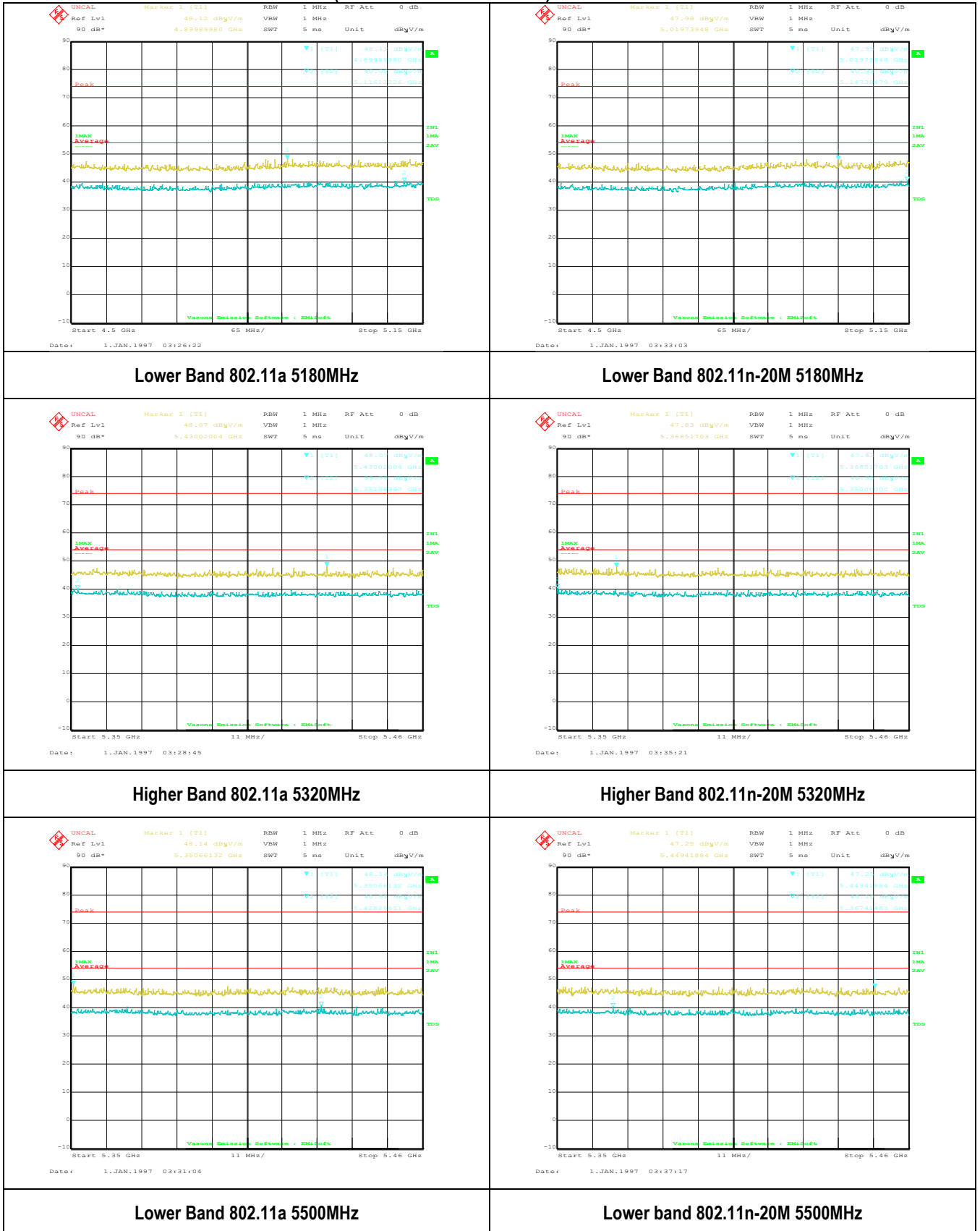
802.11n-40 – 5795MHz

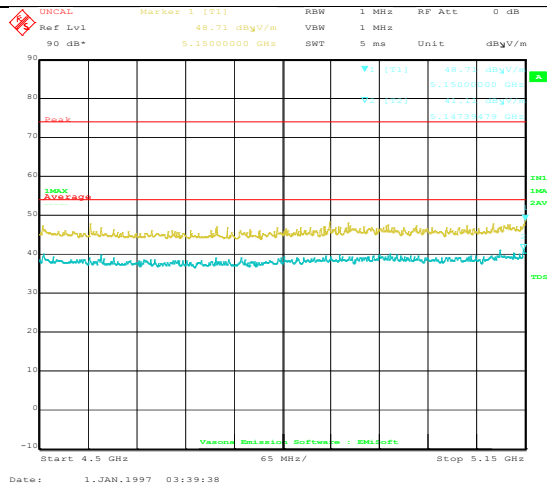
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17794.55	36.41	13.00	10.70	60.11	Peak Max	H	231.00	108.00	74.00	-13.89	Pass
14697.17	39.13	13.45	7.89	60.48	Peak Max	H	196.00	199.00	74.00	-13.52	Pass
4099.46	34.96	5.92	11.79	52.67	Peak Max	H	205.00	317.00	74.00	-21.33	Pass
17794.55	24.04	13.00	10.70	47.74	Average Max	H	231.00	108.00	54.00	-6.26	Pass
14697.17	26.25	13.45	7.89	47.59	Average Max	H	196.00	199.00	54.00	-6.41	Pass
4099.46	22.57	5.92	11.79	40.28	Average Max	H	205.00	317.00	54.00	-13.72	Pass

802.11ac-80 – 5775MHz

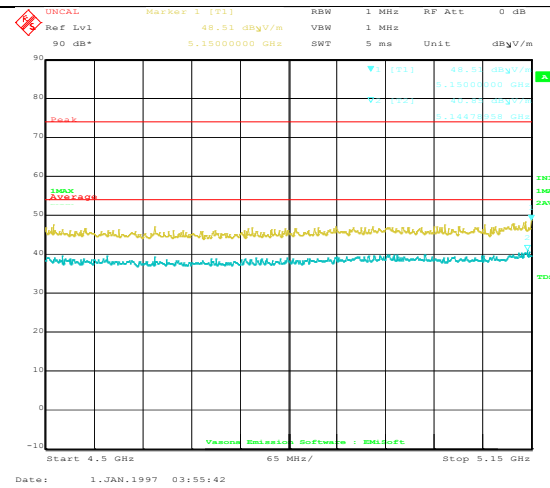
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
12309.17	38.21	12.73	8.44	59.37	Peak Max	H	147.00	37.00	74.00	-14.63	Pass
17762.99	37.06	13.00	10.67	60.73	Peak Max	H	160.00	90.00	74.00	-13.27	Pass
1987.12	37.31	3.32	11.38	52.01	Peak Max	V	190.00	58.00	74.00	-21.99	Pass
12309.17	25.58	12.73	8.44	46.74	Average Max	H	147.00	37.00	54.00	-7.26	Pass
17762.99	24.14	13.00	10.67	47.81	Average Max	H	160.00	90.00	54.00	-6.19	Pass
1987.12	24.56	3.32	11.38	39.26	Average Max	V	190.00	58.00	54.00	-14.74	Pass

Restricted Band Measurement Plots: (Omnidirectional Antenna)

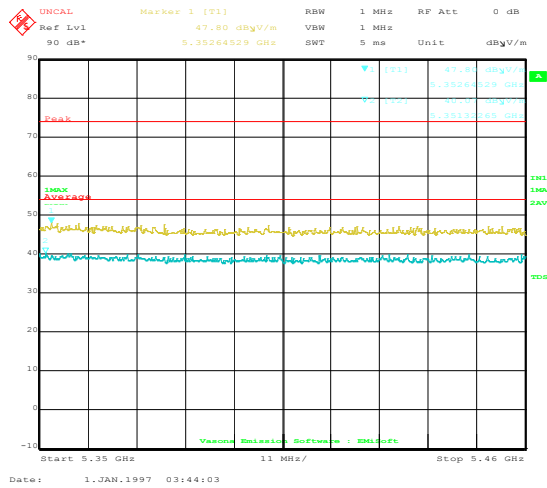




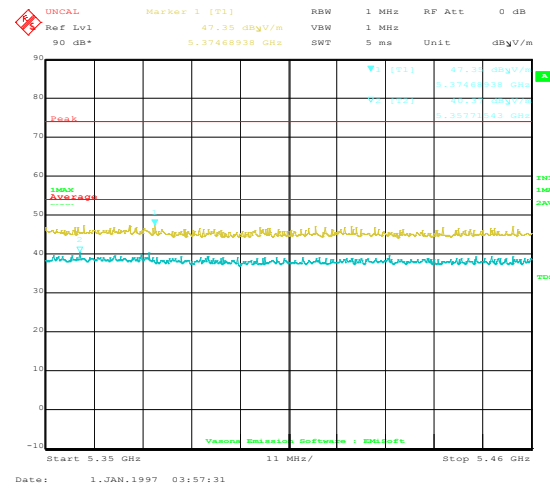
Lower Band 802.11n-40M 5190MHz



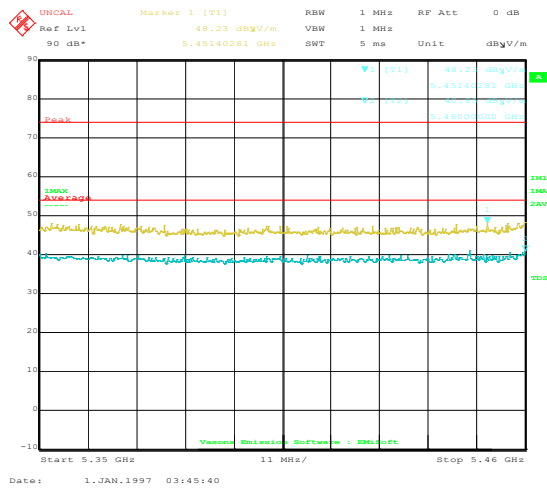
Lower Band 802.11ac-80 5210MHz



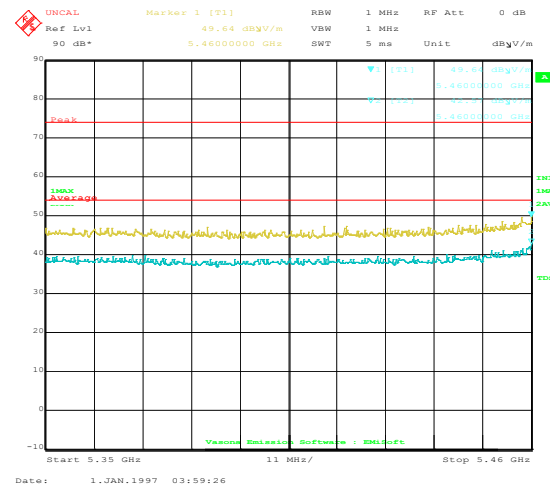
Higher Band 802.11n-40M 5310MHz



Higher Band 802.11ac-80 5290MHz

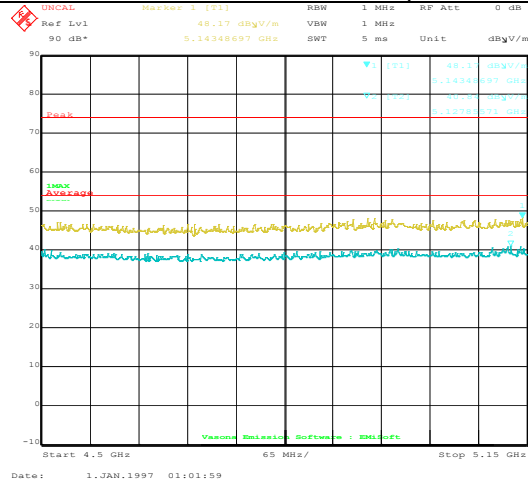


Lower Band 802.11n-40M 5510MHz

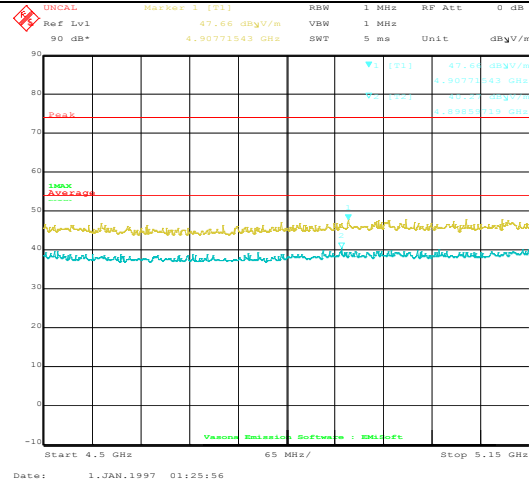


Lower Band 802.11ac-80 55300MHz

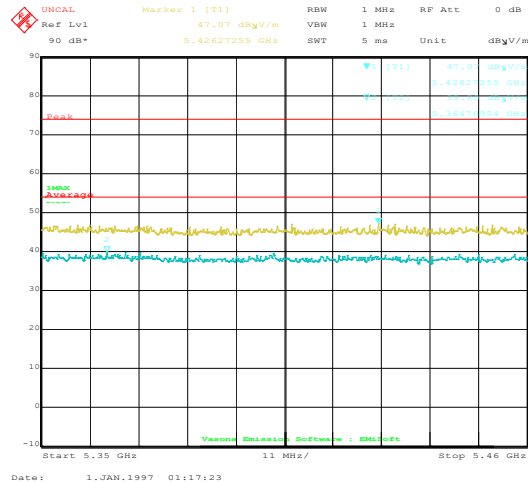
Restricted Band Measurement Plots: (Patch Antenna)



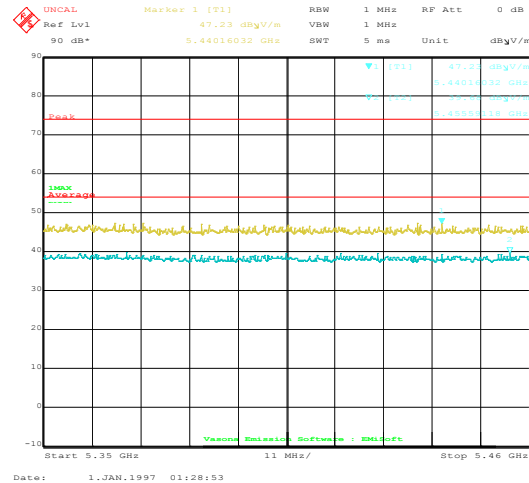
Lower Band 802.11a 5180MHz



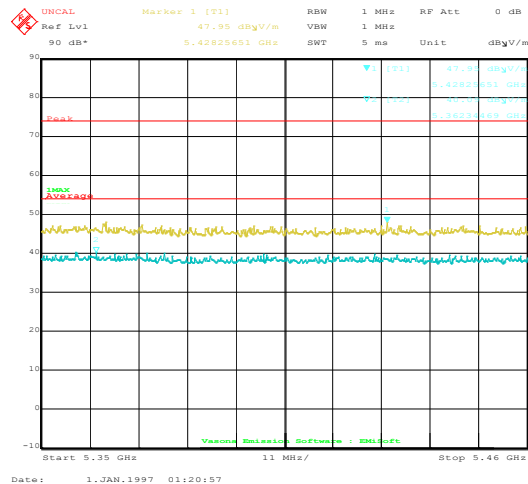
Lower Band 802.11n-20M 5180MHz



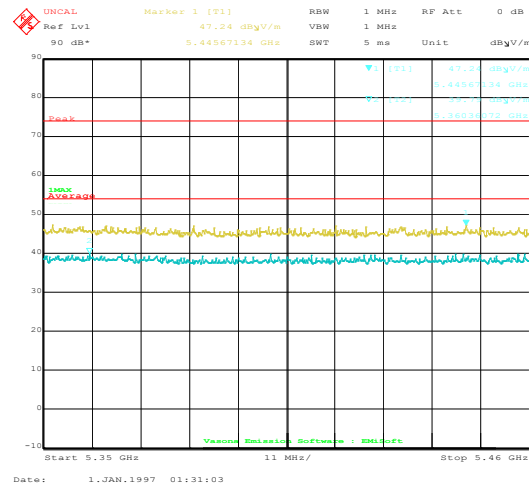
Higher Band 802.11a 5320MHz



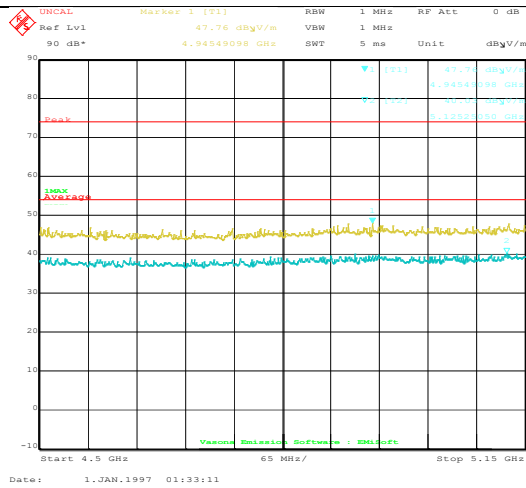
Higher Band 802.11n-20M 5320MHz



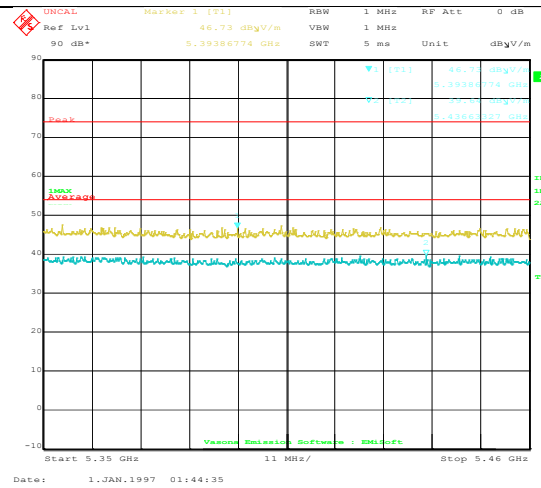
Lower Band 802.11a 5500MHz



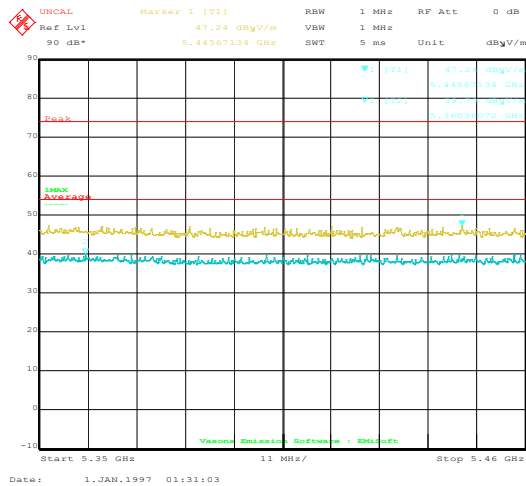
Lower band 802.11n-20M 5500MHz



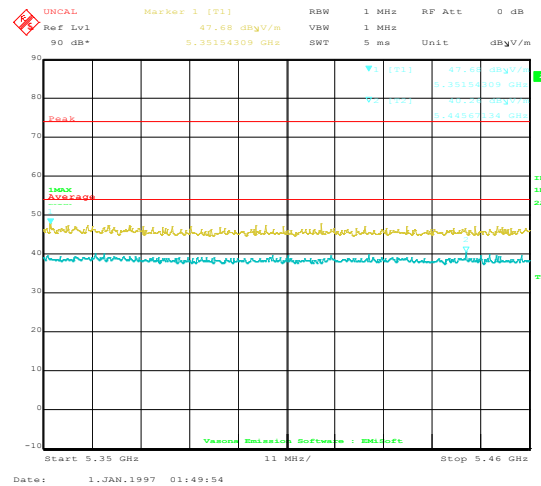
Lower Band 802.11n-40M 5190MHz



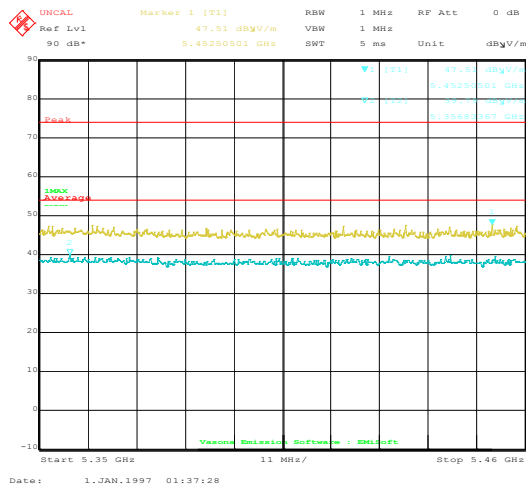
Lower Band 802.11ac-80 5210MHz



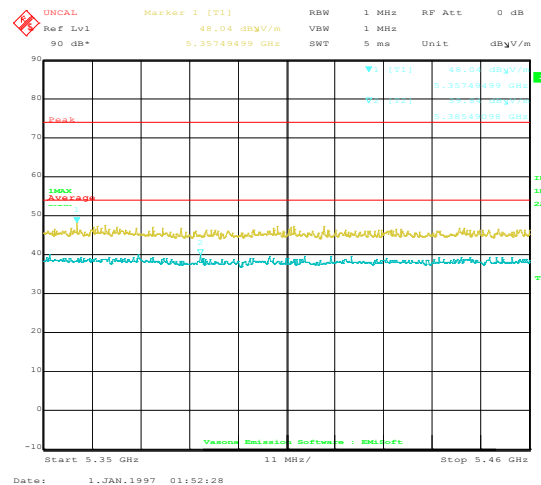
Higher Band 802.11n-40M 5310MHz



Higher Band 802.11ac-80 5290MHz



Lower Band 802.11n-40M 5510MHz



Lower Band 802.11ac-80 55300MHz