

Title: 802.11A, 5240MHz: Average

Test Results Table

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	Comments
17873.818	27.1	12.3	11.6	51	Av	H	106	0	54	-3	Pass	Noise Floor
6399.929	40	7.2	-3.3	43.8	Av	H	155	212	54	-10.2	Pass	
4960.036	38.9	6.3	-4.1	41.1	Av	H	128	257	54	-12.9	Pass	
4640.081	39	6.1	-4.2	40.8	Av	H	135	359	54	-13.2	Pass	
5639.969	35.6	6.7	-4	38.3	Av	H	114	198	54	-15.7	Pass	
1375.158	40.1	3.2	-7.8	35.4	Av	H	178	251	54	-18.6	Pass	

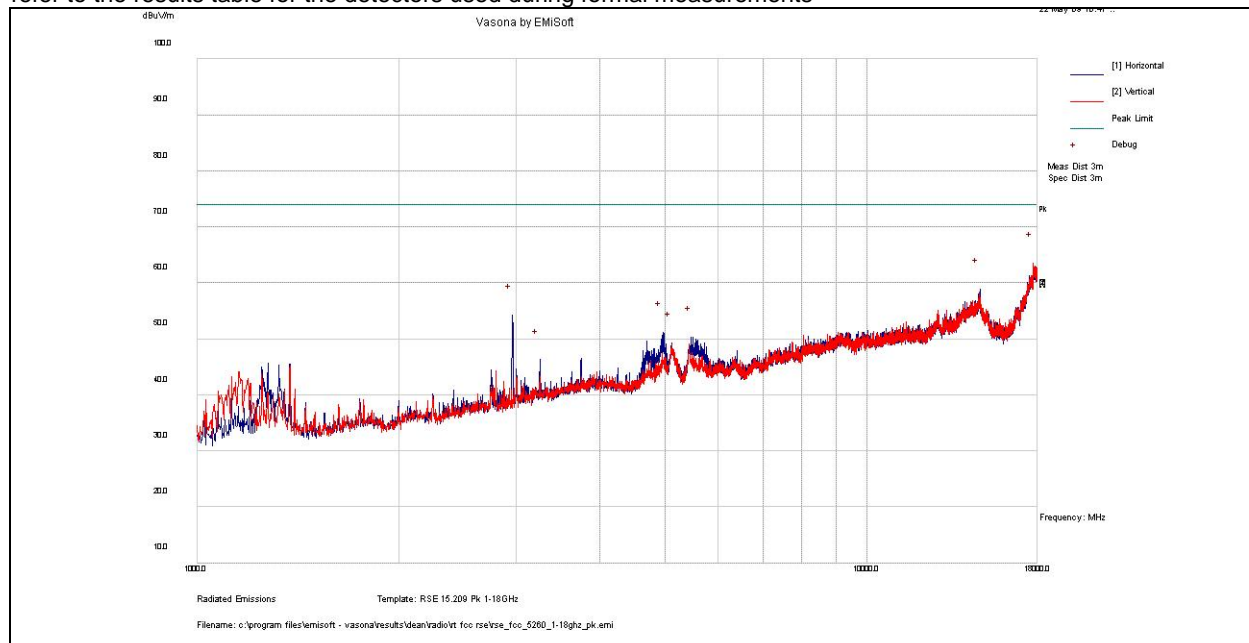
Subtest Number: 36012 - 9		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		



Humidity: between 10 and 75%:	Yes
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Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5260MHz: Peak

Test Results Table

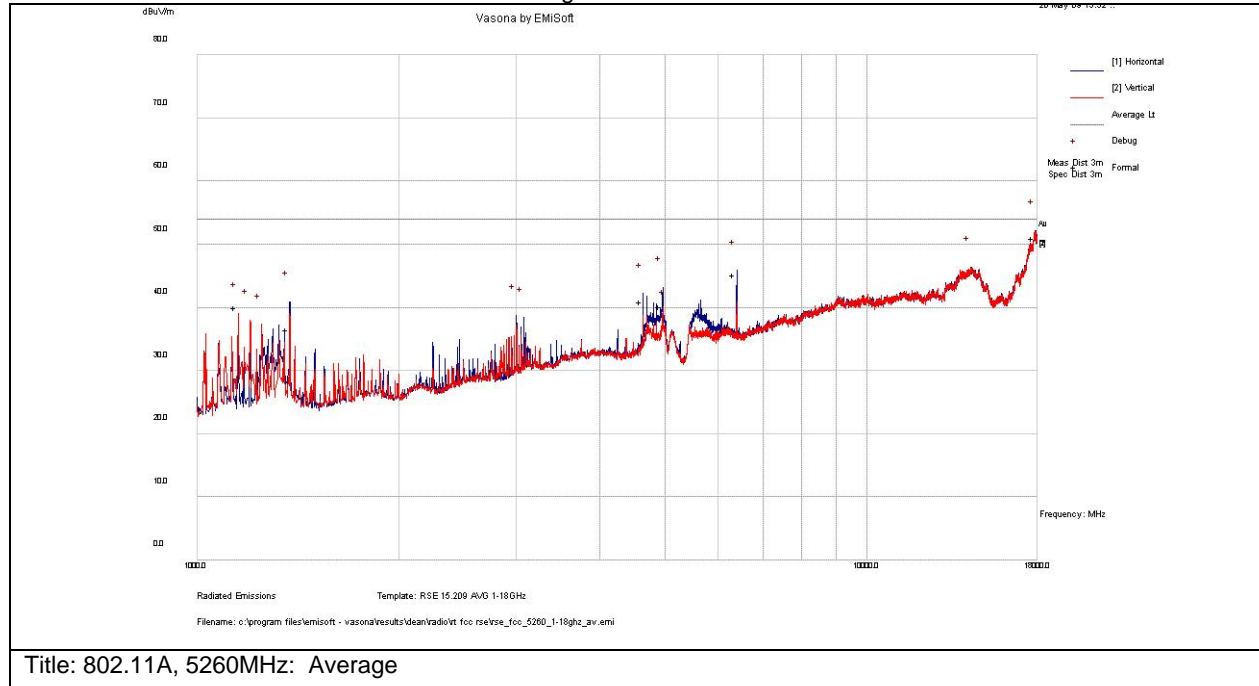
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
17753.431	38.4	14.2	10.9	63.5	NA	V	125	0	74	-10.5	Pass	Noise Floor
2959.295	54.3	5	-4.9	54.3	NA	H	125	0	74	-19.7	Pass	

Subtest Number: 36012 - 10		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		



Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17897.36	27	12.4	11.7	51	Av	H	134	287	54	-3	Pass	
6399.938	41.3	7.2	-3.3	45.1	Av	H	134	216	54	-8.9	Pass	
4640.029	39.1	6.1	-4.2	41	Av	H	135	358	54	-13	Pass	
4960.027	38	6.3	-4.1	40.2	Av	H	124	267	54	-13.8	Pass	
1152.004	45.4	2.9	-8.3	40	Av	V	132	32	54	-14	Pass	
1374.659	41.1	3.2	-7.8	36.5	Av	H	123	236	54	-17.5	Pass	

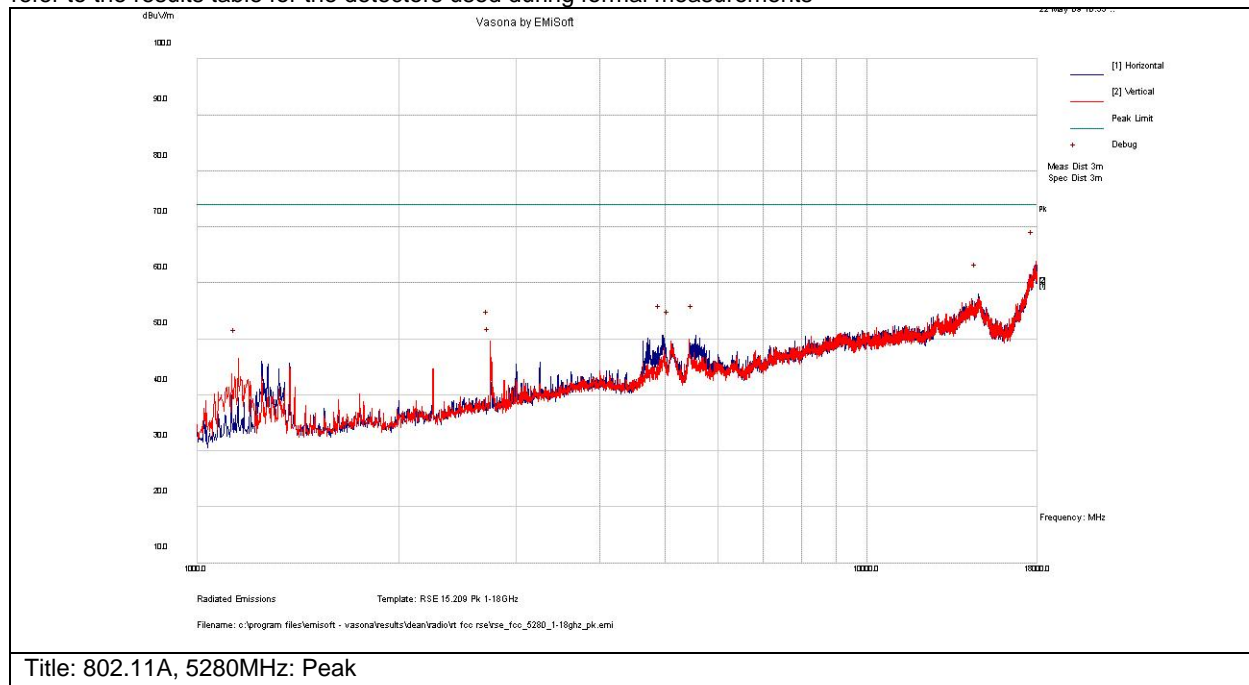
Subtest Number: 36012 - 11		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		



Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17899.251	37.8	14.4	11.7	63.8	NA	V	100	0	74	-10.2	Pass	Noise Floor
4961.011	47.5	7.3	-4.1	50.7	NA	H	100	0	74	-23.3	Pass	

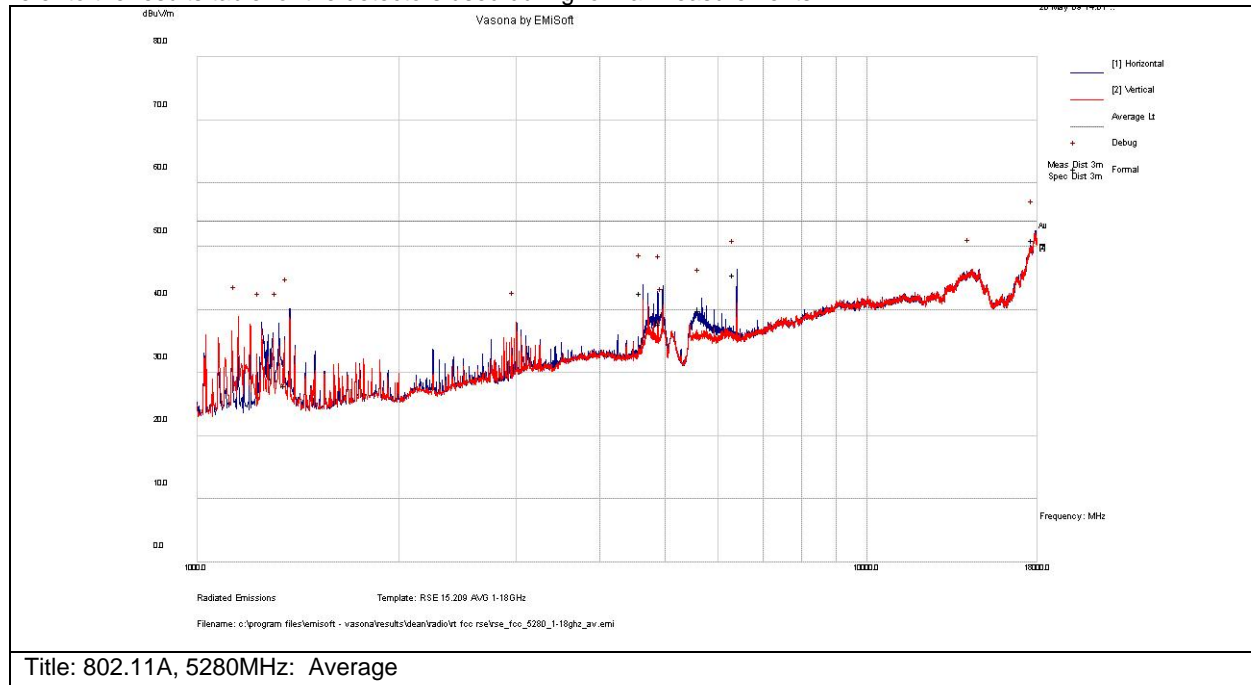
Subtest Number: 36012 - 12		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			



Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17888.697	27	12.4	11.6	51	Av	H	99	183	54	-3	Pass	
6399.909	41.7	7.2	-3.3	45.5	Av	H	107	220	54	-8.5	Pass	
4640.029	40.8	6.1	-4.2	42.6	Av	H	115	201	54	-11.4	Pass	
5679.772	37.1	6.8	-4.1	39.8	Av	H	99	212	54	-14.2	Pass	
4960.008	35.6	6.3	-4.1	37.8	Av	H	173	267	54	-16.2	Pass	
1368.075	32.6	3.2	-7.8	27.9	Av	H	123	257	54	-26.1	Pass	

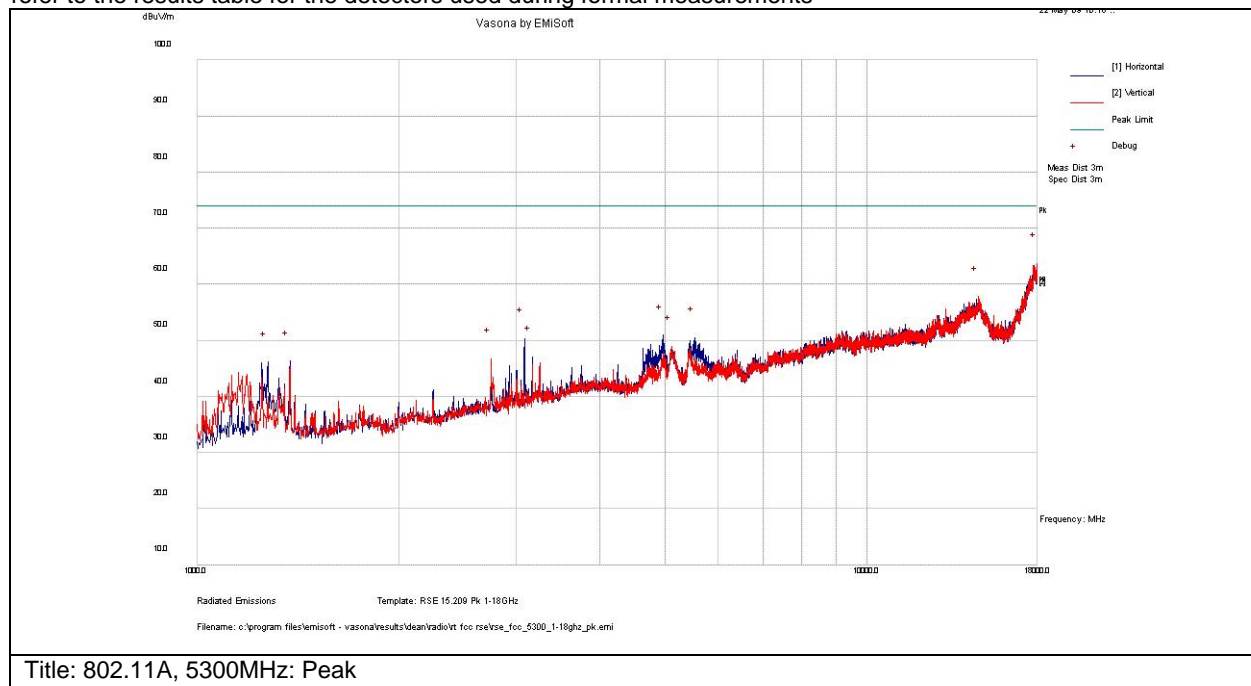
Subtest Number: 36012 - 13		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		



Lowest Frequency	1000.0
Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17989.395	37.4	14.4	11.9	63.7	NA	V	100	0	74	-10.3	Pass	Noise Floor
4971.616	47.6	7.4	-4.1	50.9	NA	H	100	0	74	-23.1	Pass	

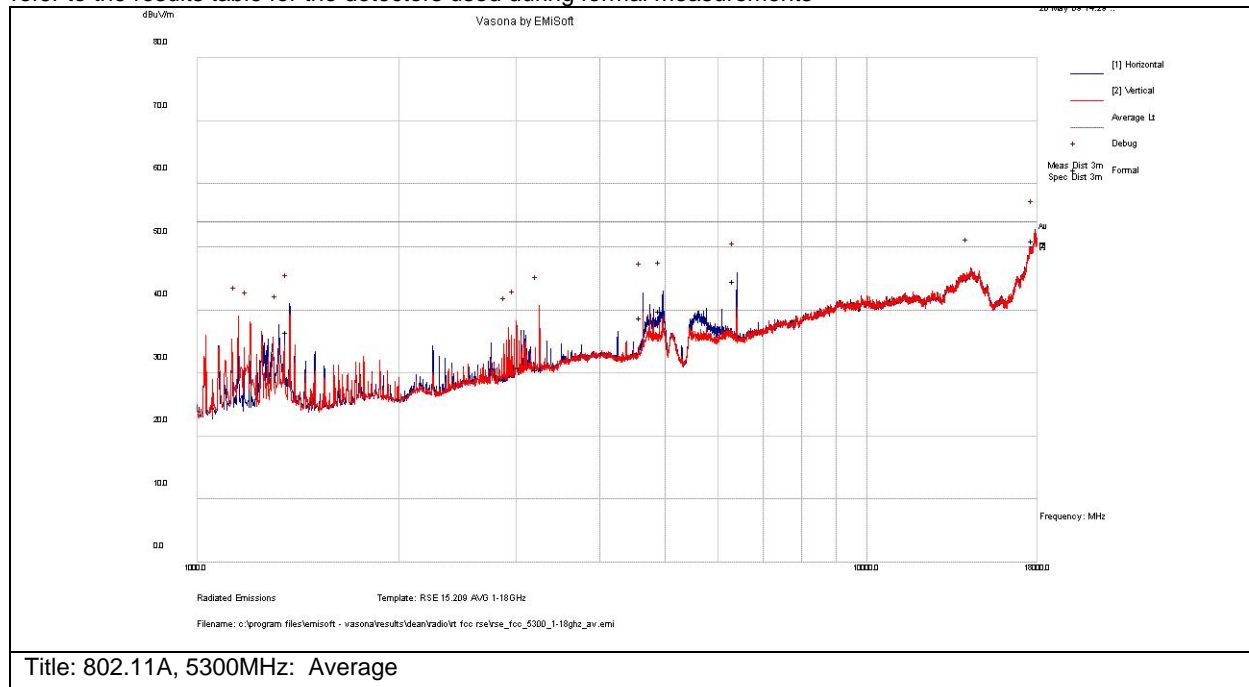
Subtest Number: 36012 - 14		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		



Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17879.016	27	12.3	11.6	51	Av	H	147	72	54	-3	Pass	Noiser Floor
6399.907	40.8	7.2	-3.3	44.6	Av	H	144	198	54	-9.4	Pass	
4960.014	37.6	6.3	-4.1	39.8	Av	H	133	342	54	-14.2	Pass	
4640.011	37	6.1	-4.2	38.8	Av	H	126	217	54	-15.2	Pass	
1375.124	41.1	3.2	-7.8	36.5	Av	H	133	239	54	-17.5	Pass	
3247.792	29.7	5	-4.2	30.6	Av	V	106	167	54	-23.4	Pass	

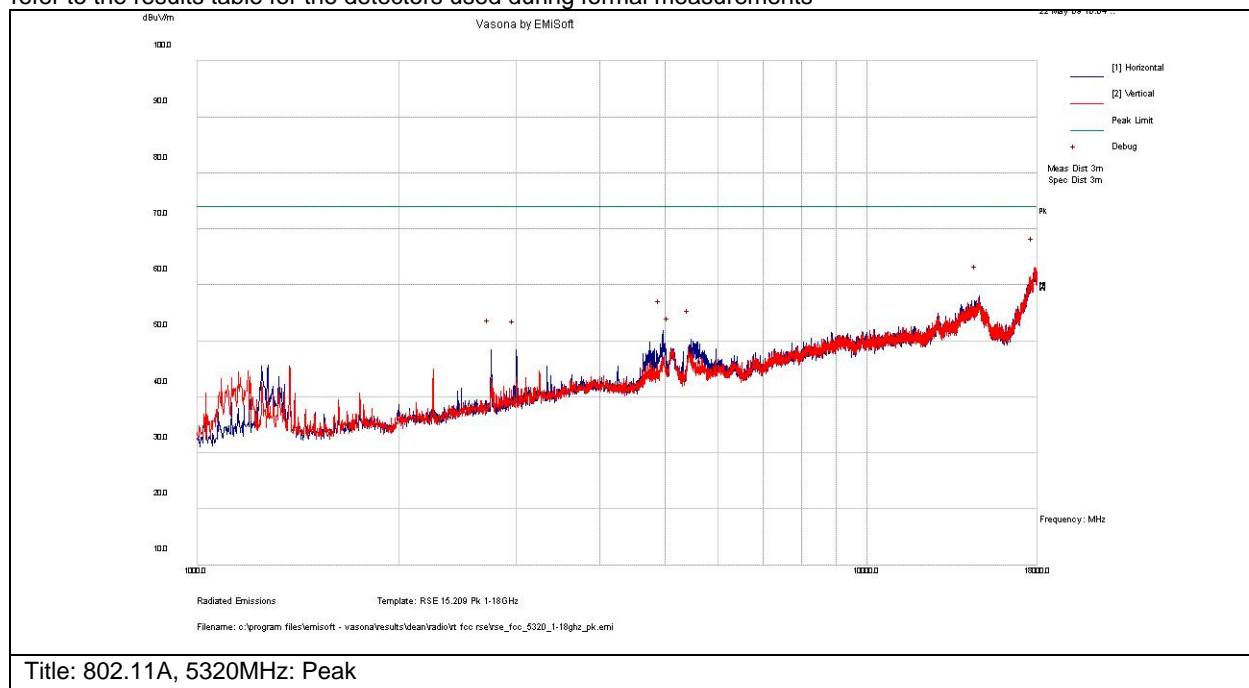
Subtest Number: 36012 - 15		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		



Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17878.041	37.2	14.3	11.6	63.1	NA	V	125	0	74	-10.9	Pass	Noise Floor
4961.011	48.6	7.3	-4.1	51.8	NA	H	125	0	74	-22.2	Pass	

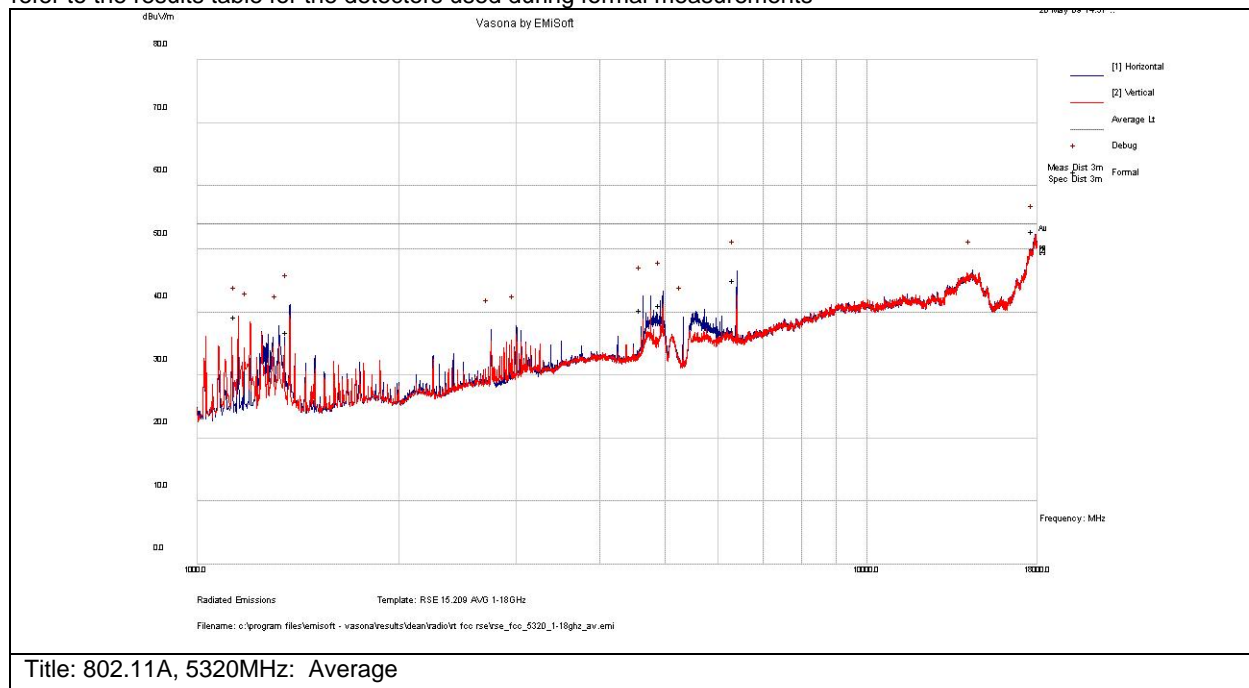
Subtest Number: 36012 - 16		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		



Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17889.653	28.8	12.4	11.7	52.9	Av	V	113	184	54	-1.1	Pass	Noise Floor
6400.087	41.2	7.2	-3.3	45	Av	H	132	217	54	-9	Pass	
4959.902	38.8	6.3	-4.1	41	Av	H	129	0	54	-13	Pass	
4639.978	38.5	6.1	-4.2	40.4	Av	H	133	360	54	-13.6	Pass	
1152.025	44.6	2.9	-8.3	39.2	Av	V	201	35	54	-14.8	Pass	
1375.034	41.4	3.2	-7.8	36.8	Av	H	124	253	54	-17.2	Pass	

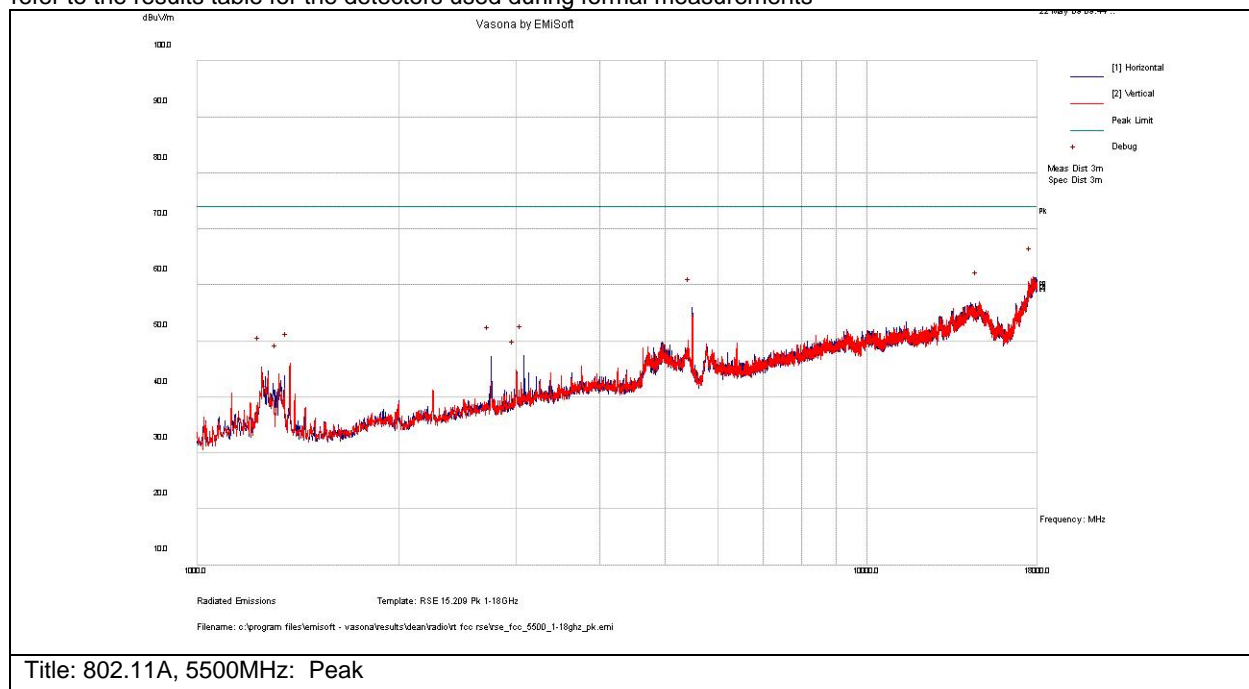
Subtest Number: 36012 - 17		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		



Subtest Results	
Subtest Title	Radiated Spurious Emissions, 1-18GHz
Subtest Result	Pass
Highest Frequency	18000.0
Lowest Frequency	1000.0
Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17737.523	37.1	13.4	10.8	61.4	NA	V	125	0	74	-12.6	Pass	Noise Floor
5493.918	50.1	9.4	-3.7	55.9	NA	H	100	0	74	-18.1	Pass	Fundamental

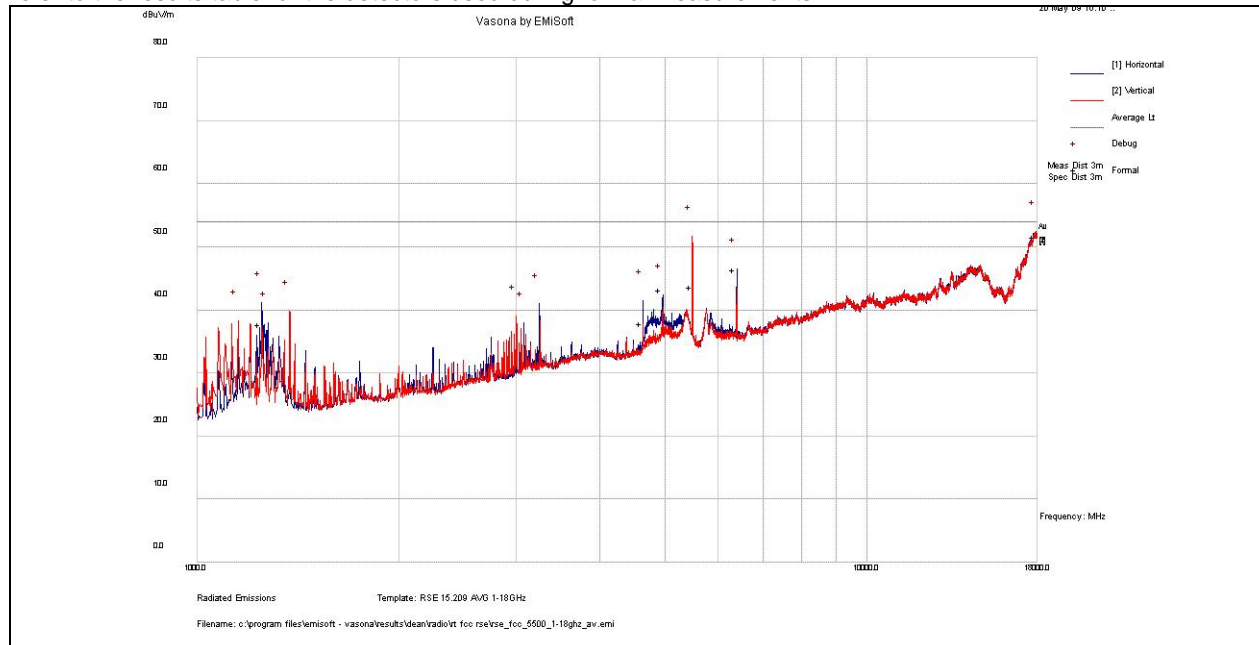
Subtest Number: 36012 - 18		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			



Subtest Title	Radiated Spurious Emissions, 1-18GHz	
Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5500MHz: Average

Test Results Table

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	Comments
17920.333	26.3	13.6	11.8	51.6	Av	H	123	72	54	-2.4	Pass	Noise Floor
6399.977	42.4	7.4	-3.3	46.4	Av	H	119	216	54	-7.6	Pass	
5505.327	37.9	9.5	-3.7	43.7	Av	V	114	314	54	-10.3	Pass	Fundamental
4960.086	40.8	6.6	-4.1	43.2	Av	H	100	212	54	-10.8	Pass	
4639.928	35.8	6.3	-4.2	37.8	Av	H	178	212	54	-16.2	Pass	
1250.111	42.5	3.1	-8	37.6	Av	H	138	231	54	-16.4	Pass	

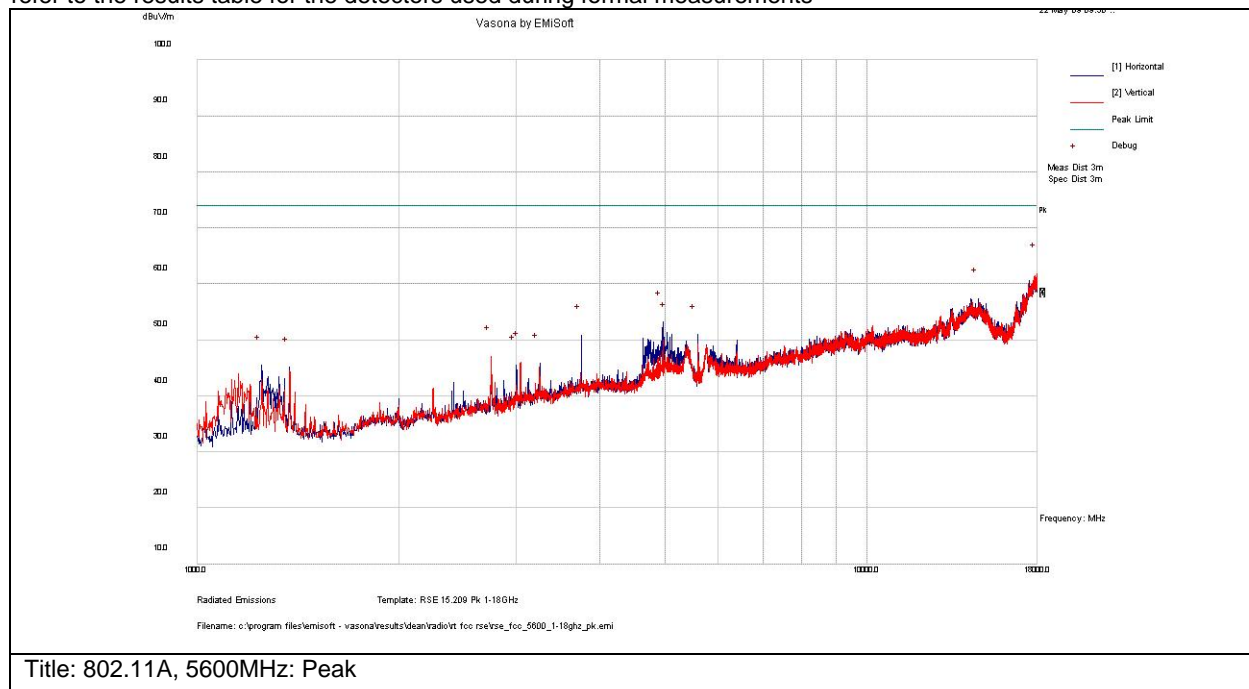
Subtest Number: 36012 - 19	Subtest Date: 28-May-2009
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Engineer	Dean Yarza	
Lab Information	Building I, 5m Anechoic	
Subtest Results		
Subtest Title	Radiated Spurious Emissions, 1-18GHz	
Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17976.138	36.2	13.6	11.9	61.8	NA	V	100	0	74	-12.2	Pass	Noise Floor
4961.011	50.8	6.6	-4.1	53.3	NA	H	100	0	74	-20.7	Pass	

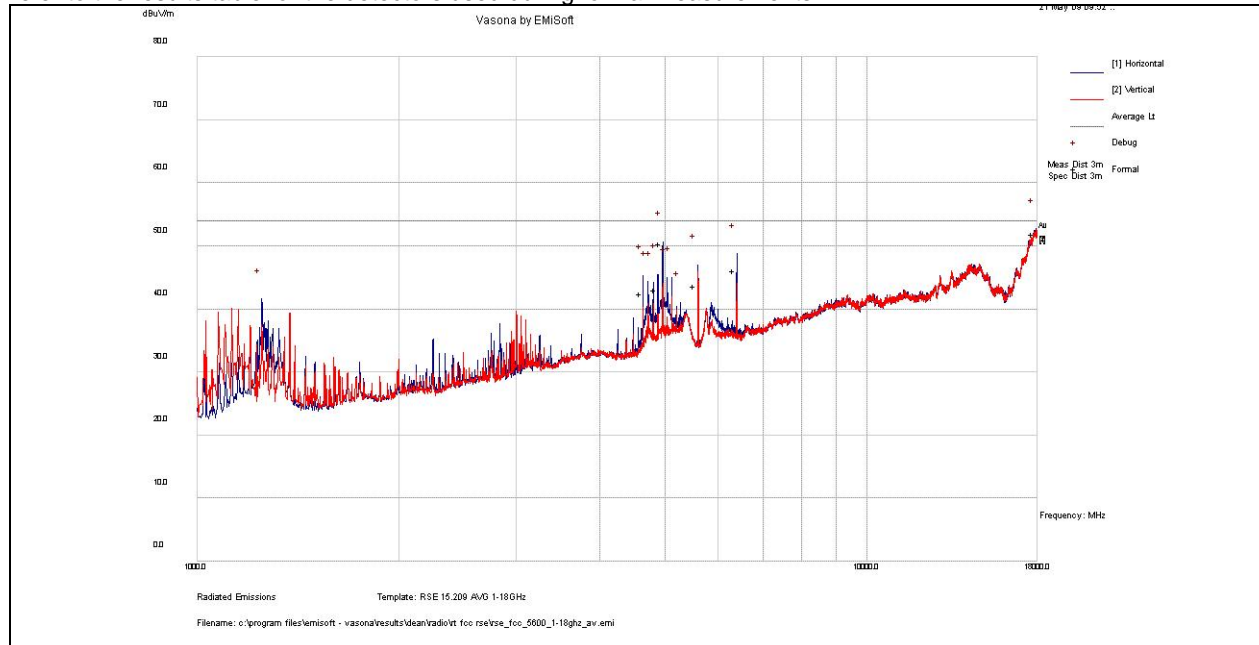
Subtest Number: 36012 - 20	Subtest Date: 28-May-2009
Engineer	Dean Yarza



Lab Information	Building I, 5m Anechoic	
Subtest Results		
Subtest Title	Radiated Spurious Emissions, 1-18GHz	
Subtest Result	Pass	
Highest Frequency	18000.0	
Lowest Frequency	1000.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5600MHz: Average

Test Results Table

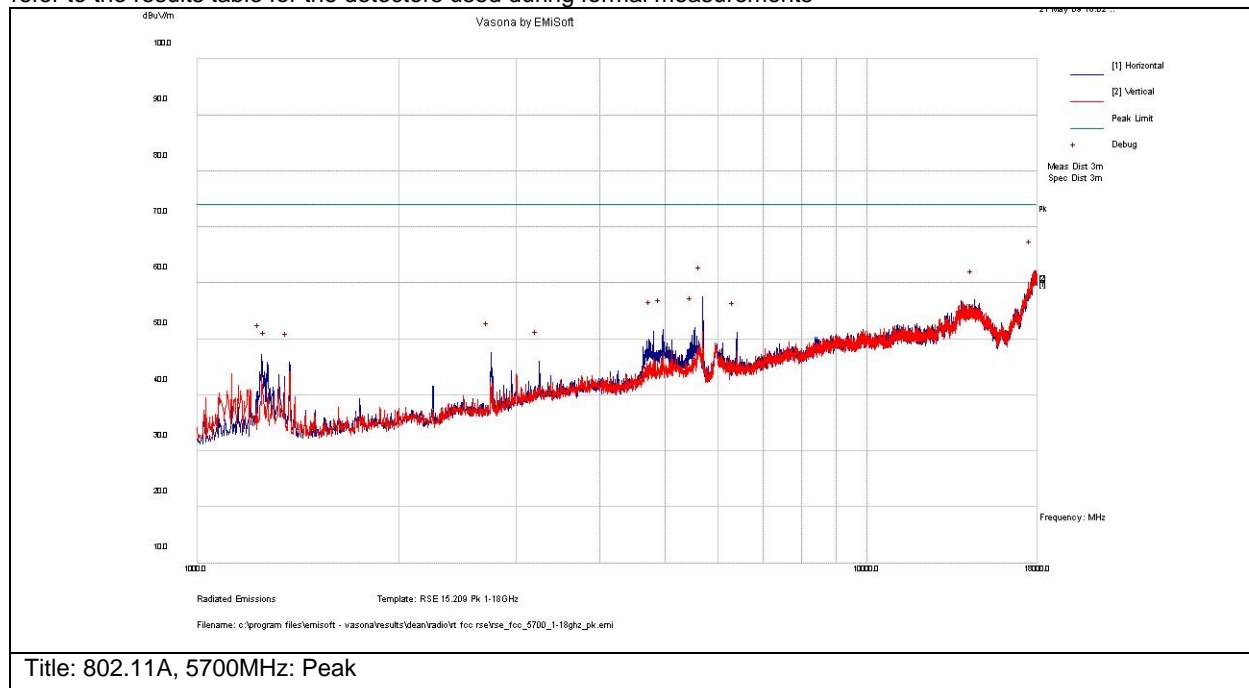
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
17900.44	26.6	13.6	11.7	51.8	Av	H	125	110	54	-2.2	Pass	Noise Floor
4960.001	48	6.6	-4.1	50.4	Av	H	100	212	54	-3.6	Pass	
6399.798	42.1	7.4	-3.3	46.2	Av	H	110	222	54	-7.8	Pass	
5594.405	38.1	9.5	-4	43.7	Av	H	136	208	54	-10.3	Pass	Fundamental
4879.901	40.6	6.5	-4	43	Av	H	99	209	54	-11	Pass	
4639.984	40.3	6.3	-4.2	42.4	Av	H	99	14	54	-11.6	Pass	



Subtest Number: 36012 - 21		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

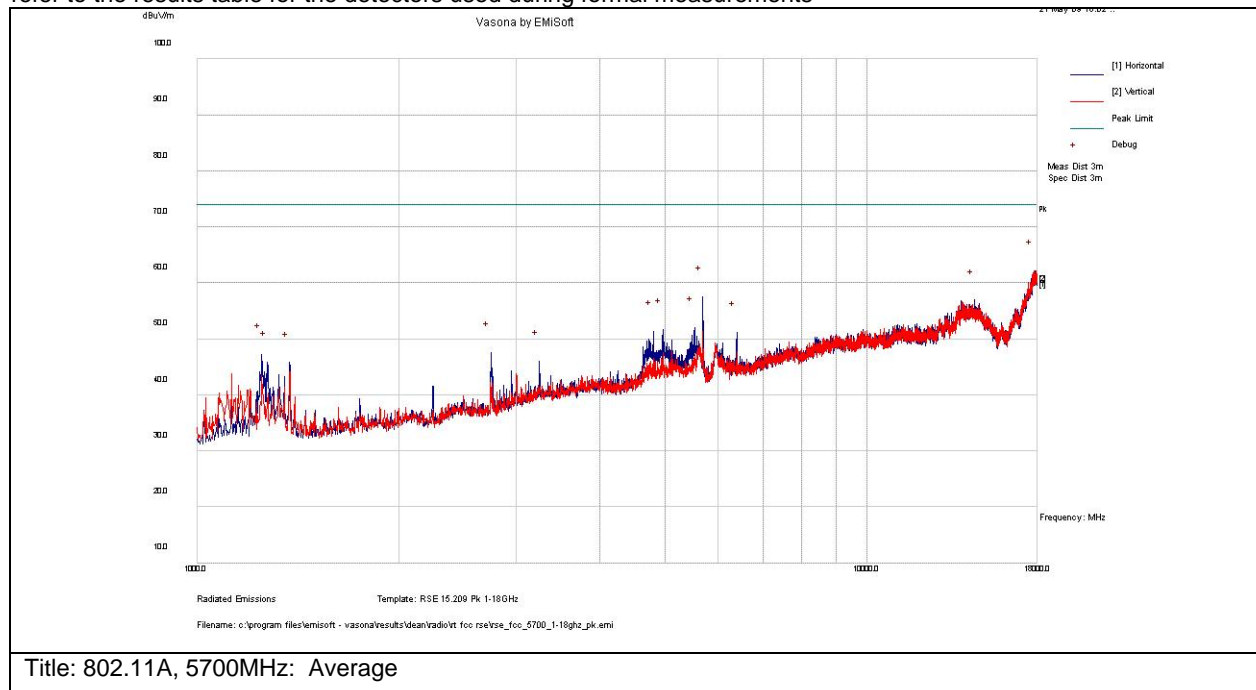
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
17771.99	37.1	14.1	11	62.2	NA	V	100	0	74	-11.8	Pass	Noise Floor
5692.764	51.9	9.7	-4.1	57.5	NA	H	125	0	74	-16.5	Pass	Fundamental
5538.989	48.3	7.5	-3.8	52	NA	H	100	0	74	-22	Pass	



Subtest Number: 36012 - 22		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17910.402	26.5	13.6	11.7	51.7	Av	H	140	2	54	-2.3	Pass	Noise Floor
6399.964	43.4	7.4	-3.3	47.4	Av	H	101	223	54	-6.6	Pass	
4799.982	39	6.4	-3.9	41.5	Av	V	129	279	54	-12.5	Pass	

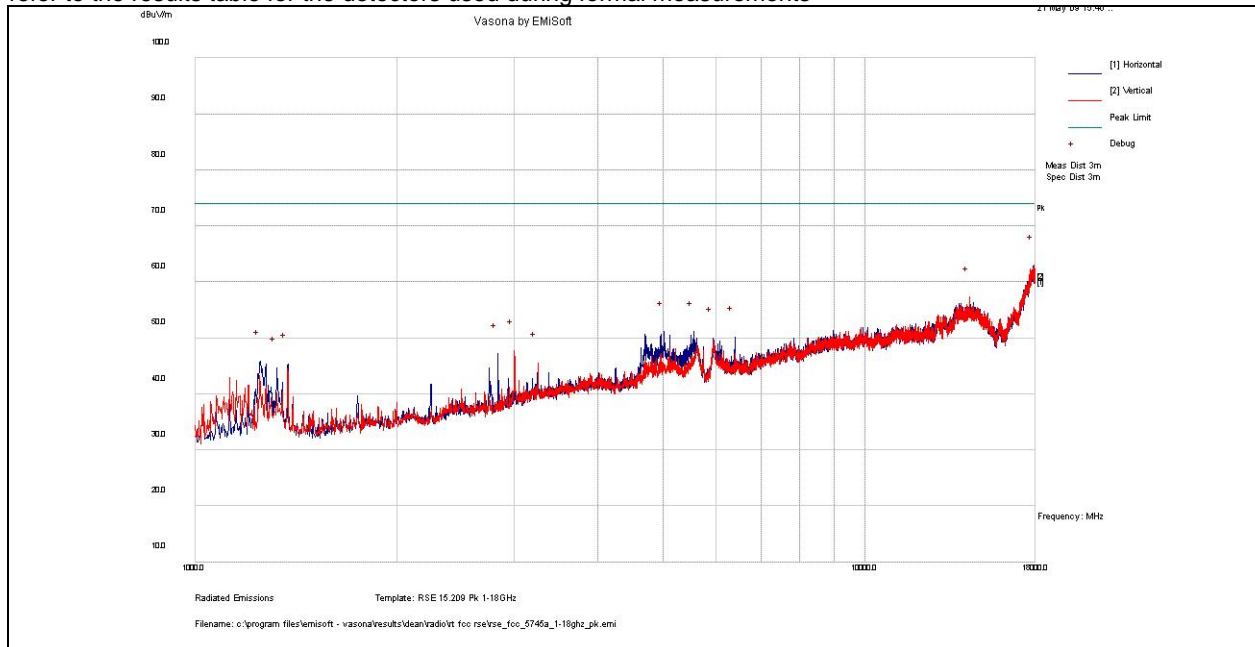


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5696.183	35.3	9.6	-4.1	40.9	Av	V	100	187	54	-13.1	Pass	Fundamental
4959.901	38	6.6	-4.1	40.4	Av	V	107	274	54	-13.6	Pass	
5118.991	28.6	6.8	-3.8	31.6	Av	V	118	163	54	-22.4	Pass	

Subtest Number: 36012 - 23		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5745MHz: Peak

Test Results Table

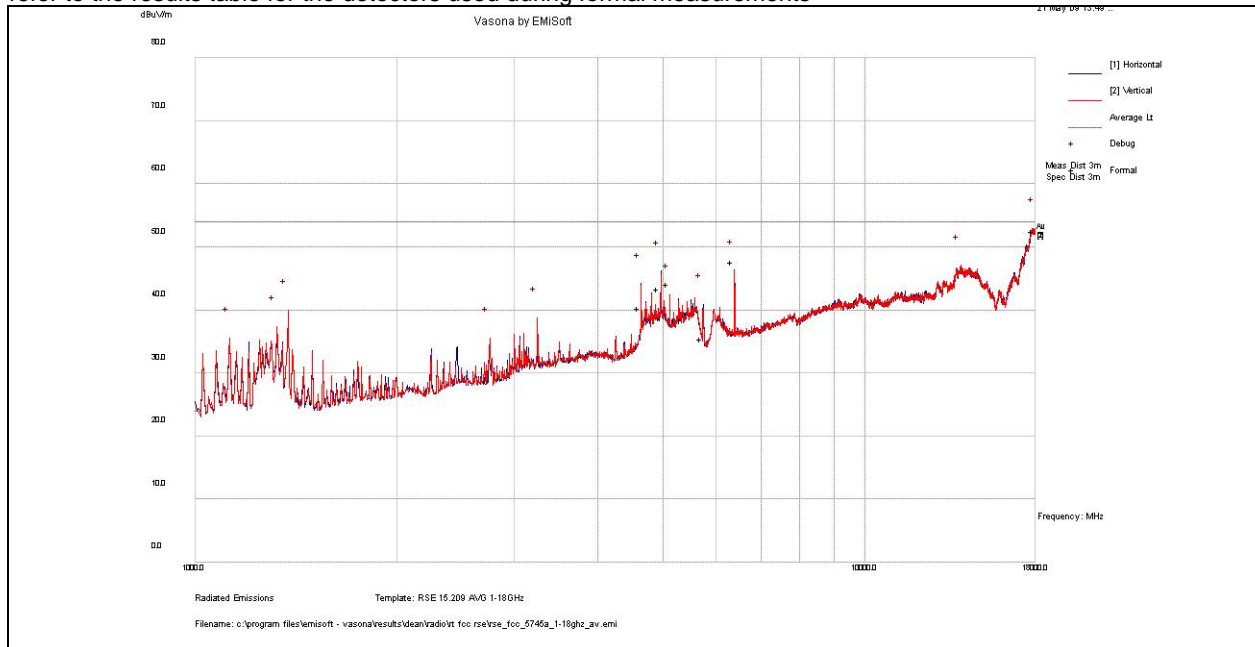


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
17941.672	36.9	14.2	11.8	63	NA	V	125	0	74	-11	Pass	Noise Floor
5024.641	48.5	6.6	-4	51.1	NA	H	125	0	74	-22.9	Pass	
5560.2	47	8	-3.9	51.1	NA	H	100	0	74	-22.9	Pass	

Subtest Number: 36012 - 24		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5745MHz: Average

Test Results Table

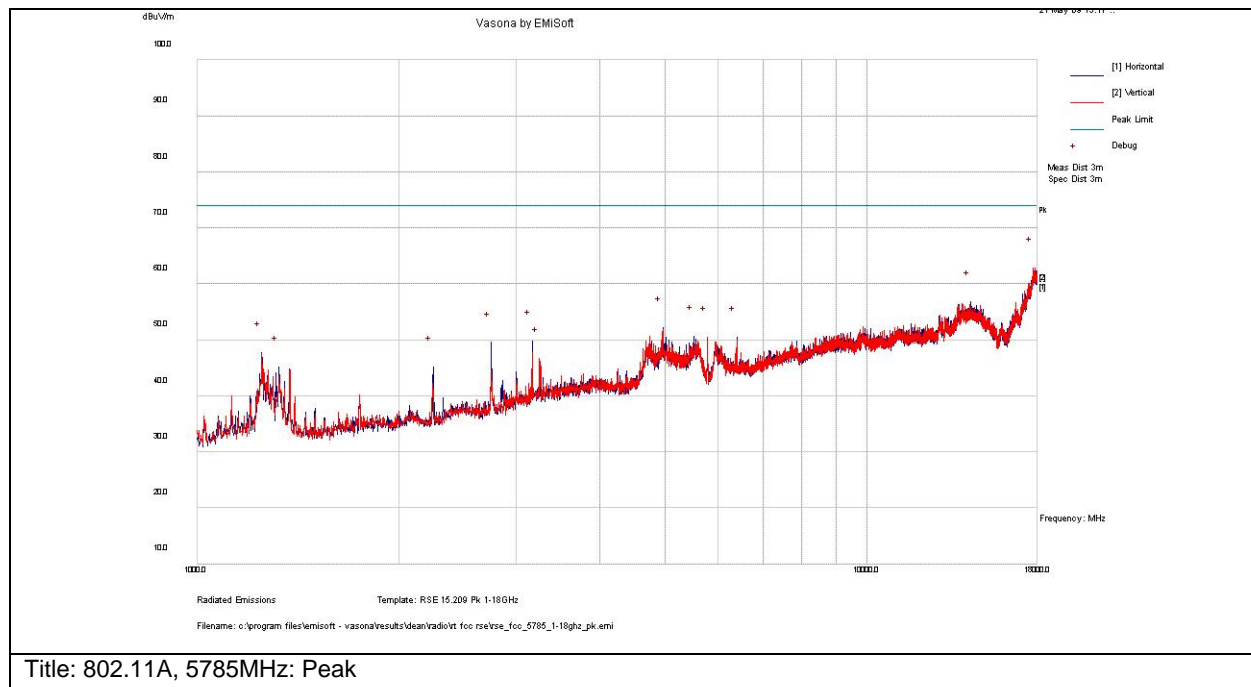


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
17983.869	26.3	14.3	11.9	52.4	Av	V	145	306	54	-1.6	Pass	Noise Floor
6400.119	43.5	7.4	-3.3	47.6	Av	H	100	221	54	-6.4	Pass	
5119.945	41.2	6.7	-3.8	44.1	Av	H	108	209	54	-9.9	Pass	
4960.162	40.9	6.6	-4.1	43.4	Av	H	104	0	54	-10.6	Pass	
4639.974	38.2	6.3	-4.2	40.2	Av	H	103	360	54	-13.8	Pass	
5748.245	29.7	9.7	-4.1	35.4	Av	H	166	0	54	-18.6	Pass	Fundamental

Subtest Number: 36012 - 25		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

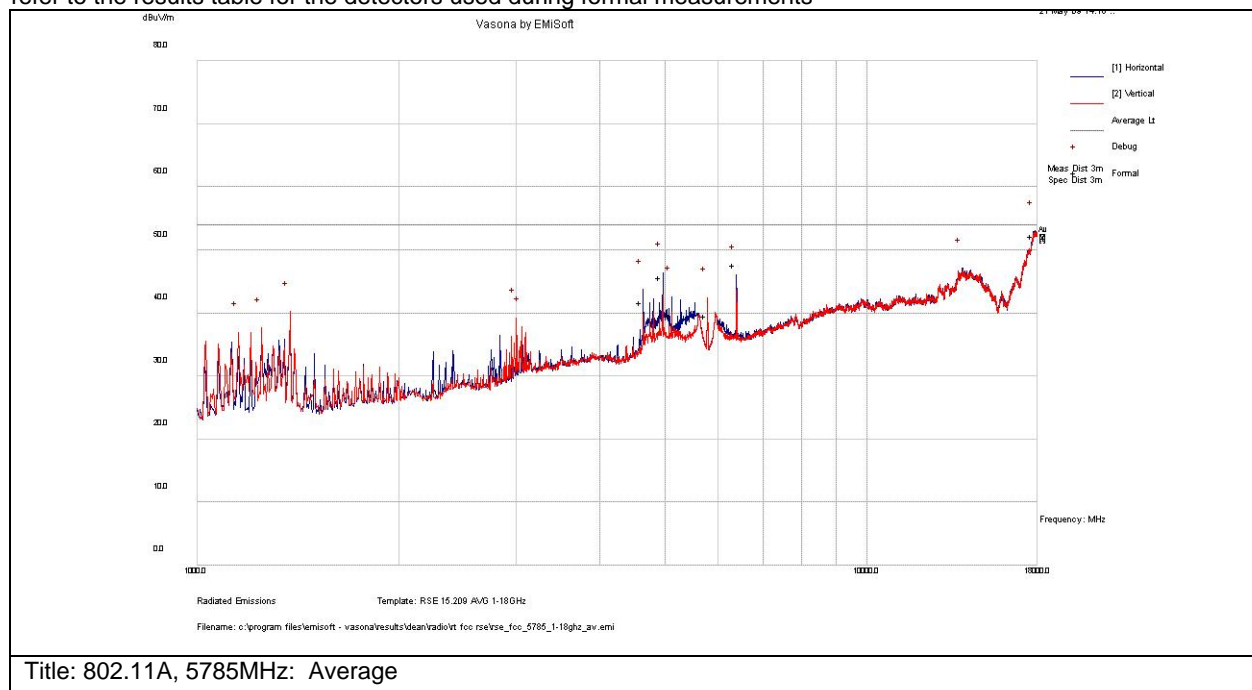
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
17740.175	38	14	10.9	62.8	NA	V	100	0	74	-11.2	Pass	Noise Floor
4961.011	49.7	6.6	-4.1	52.2	NA	H	100	0	74	-21.8	Pass	
5528.384	47	7.3	-3.8	50.6	NA	H	100	0	74	-23.4	Pass	
5788.21	44.9	9.7	-4.1	50.5	NA	V	125	0	74	-23.5	Pass	Fundamental

Subtest Number: 36012 - 26		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results



Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5785MHz: Average

Test Results Table

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	Comments
17841.523	26.7	14	11.4	52.2	Av	H	140	223	54	-1.8	Pass	Noise Floor
6399.937	43.6	7.4	-3.3	47.7	Av	H	99	222	54	-6.3	Pass	
4959.997	43.1	6.6	-4.1	45.6	Av	H	102	218	54	-8.4	Pass	
4640.118	39.6	6.3	-4.2	41.7	Av	H	138	360	54	-12.3	Pass	
5788.791	33.9	9.7	-4.1	39.5	Av	V	171	352	54	-14.5	Pass	Fundamental
5119.969	36.6	6.7	-3.8	39.5	Av	H	172	360	54	-14.5	Pass	

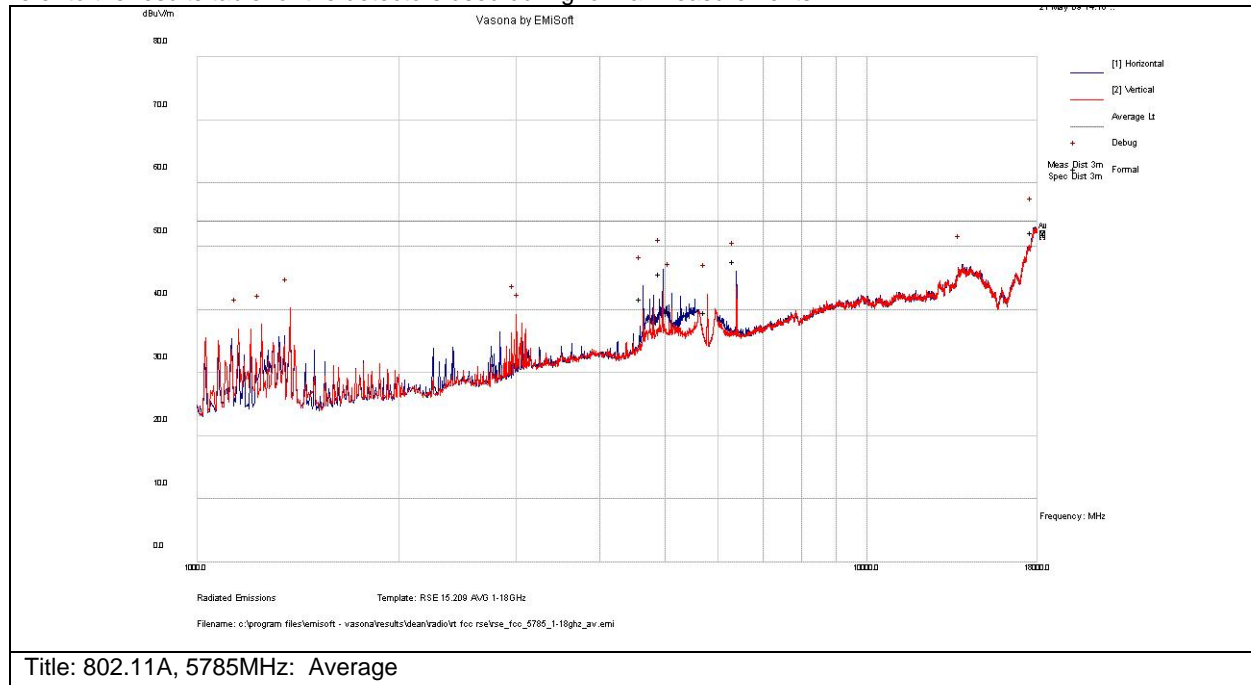
Subtest Number: 36012 - 27		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			



Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
17841.523	26.7	14	11.4	52.2	Av	H	140	223	54	-1.8	Pass	Noise Floor
6399.937	43.6	7.4	-3.3	47.7	Av	H	99	222	54	-6.3	Pass	
4959.997	43.1	6.6	-4.1	45.6	Av	H	102	218	54	-8.4	Pass	
4640.118	39.6	6.3	-4.2	41.7	Av	H	138	360	54	-12.3	Pass	
5788.791	33.9	9.7	-4.1	39.5	Av	V	171	352	54	-14.5	Pass	Fundamental
5119.969	36.6	6.7	-3.8	39.5	Av	H	172	360	54	-14.5	Pass	

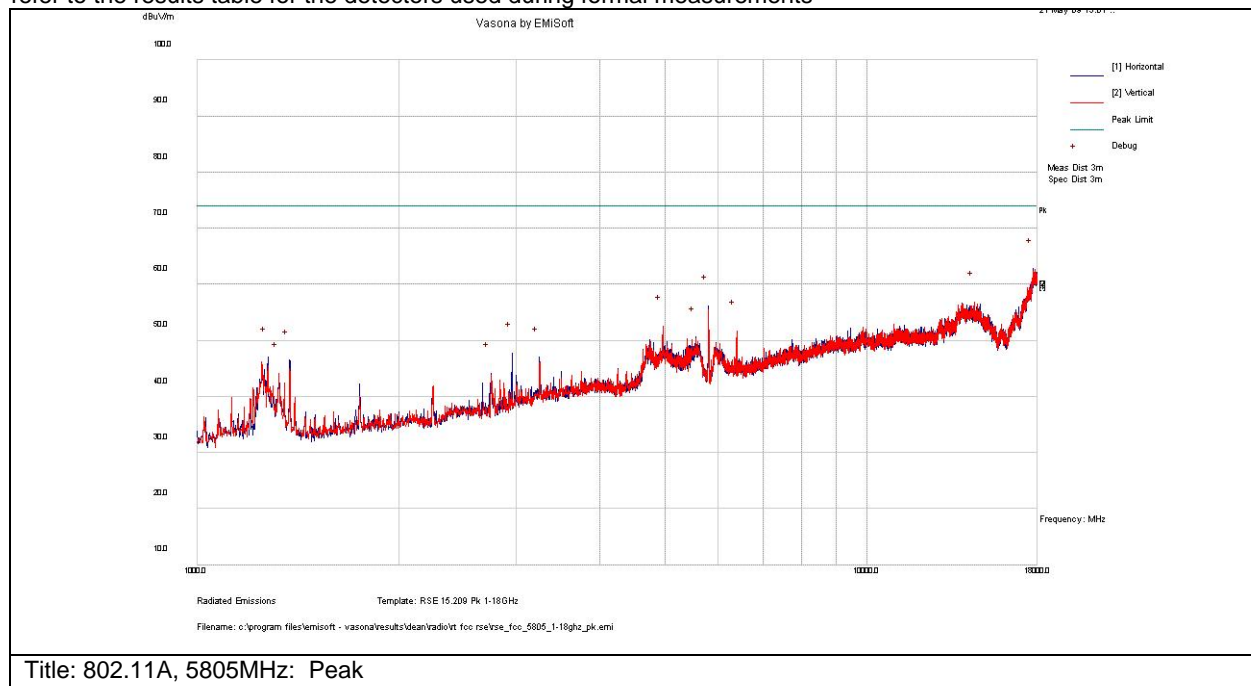
Subtest Number: 36012 - 28		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		



Lowest Frequency	1000.0
Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
1776.687	37.7	14	11	62.8	NA	H	100	0	74	-11.2	Pass	Noise Floor
5812.071	50.5	9.7	-4.1	56.1	NA	H	125	0	74	-17.9	Pass	Fundamental
4961.011	50.1	6.6	-4.1	52.6	NA	V	100	0	74	-21.4	Pass	

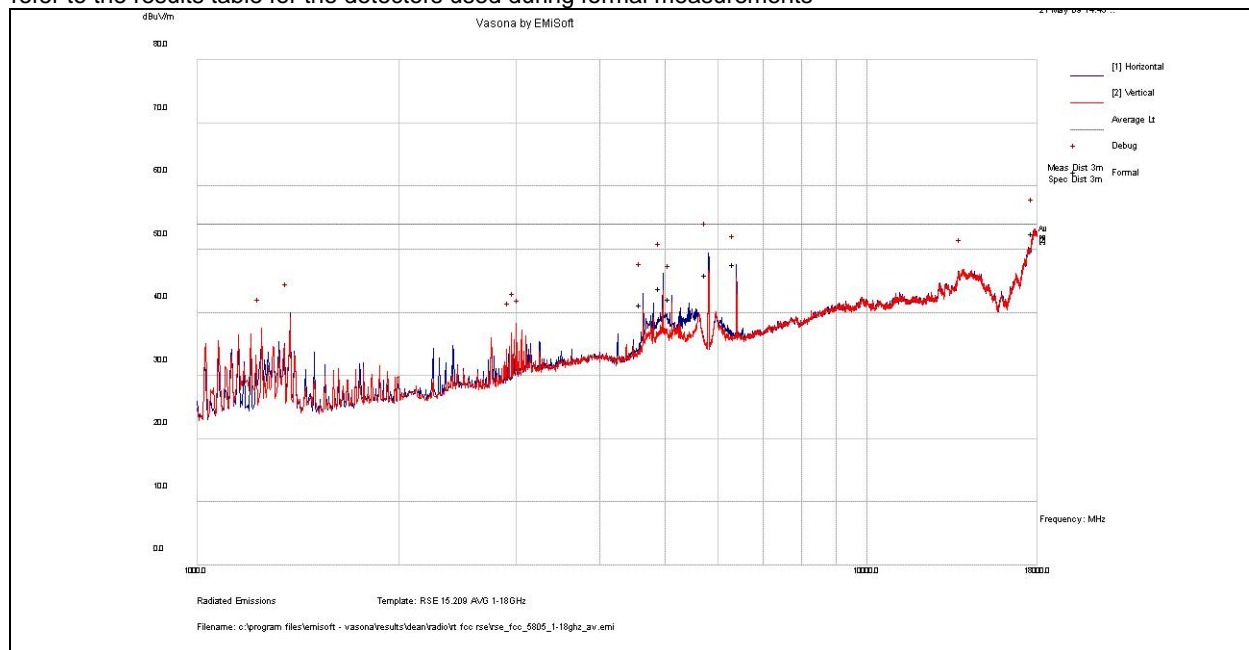
Subtest Number: 36012 - 29		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 1-18GHz		
Subtest Result	Pass		
Highest Frequency	18000.0		



Lowest Frequency	1000.0
Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A, 5805MHz: Average

Test Results Table

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	Comments
17885.037	26.8	14.1	11.6	52.5	Av	H	117	295	54	-1.5	Pass	Noise Floor
6400.036	43.6	7.4	-3.3	47.7	Av	H	100	214	54	-6.3	Pass	
5811.3	40.3	9.7	-4.1	45.9	Av	H	124	214	54	-8.1	Pass	Fundamental
4960.17	41.4	6.6	-4.1	43.9	Av	H	128	360	54	-10.1	Pass	
5120.069	39.2	6.7	-3.8	42.1	Av	H	99	0	54	-11.9	Pass	
4640.05	39.1	6.3	-4.2	41.2	Av	H	124	359	54	-12.8	Pass	

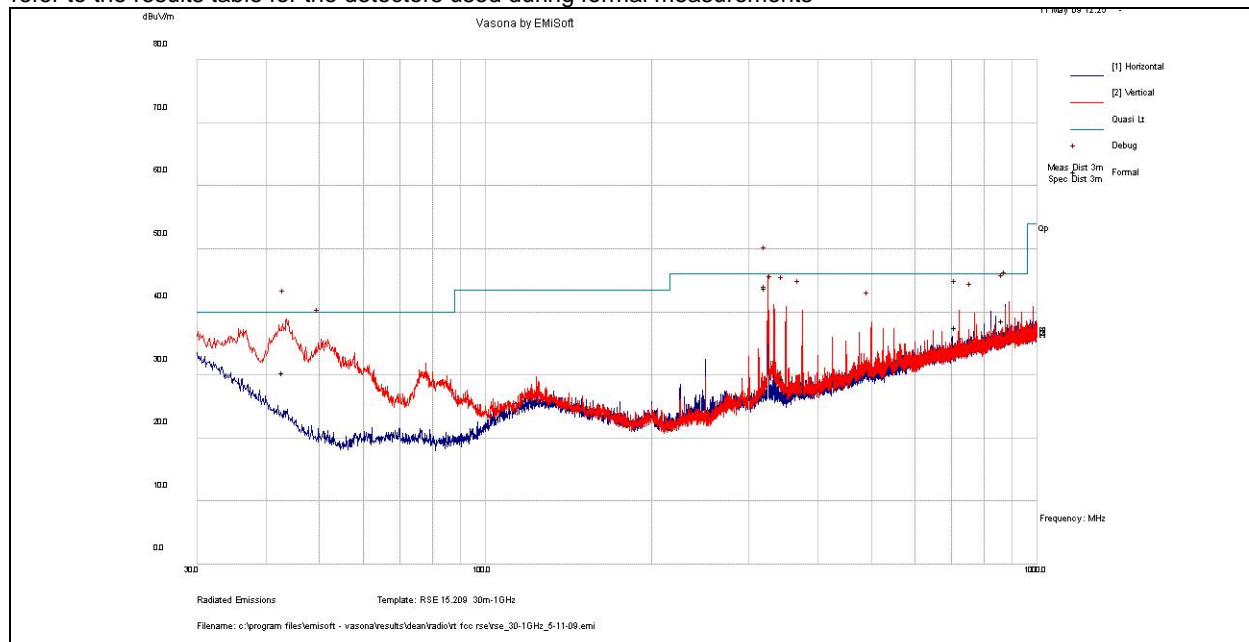
Subtest Number: 36012 - 30		Subtest Date: 28-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			



Subtest Title	Radiated Spurious Emissions, 30-1GHz	
Subtest Result	Pass	
Highest Frequency	1000.0	
Lowest Frequency	30.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: Radiated Spurious Emissions, 30-1GHz

Test Results Table

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	Comments
324.987	28.3	1.5	14	43.8	Op	V	157	291	46	-2.2	Pass	
874.997	14.1	2.5	22	38.6	Op	H	145	163	46	-7.4	Pass	
719.992	14.7	2.3	20.5	37.5	Op	V	139	33	46	-8.5	Pass	
888.009	12	2.5	22.1	36.6	Op	V	100	113	46	-9.4	Pass	
43.524	18.9	0.5	11	30.4	Op	V	194	220	40	-9.6	Pass	
350.067	13.5	1.6	14.3	29.4	Op	H	99	214	46	-16.6	Pass	

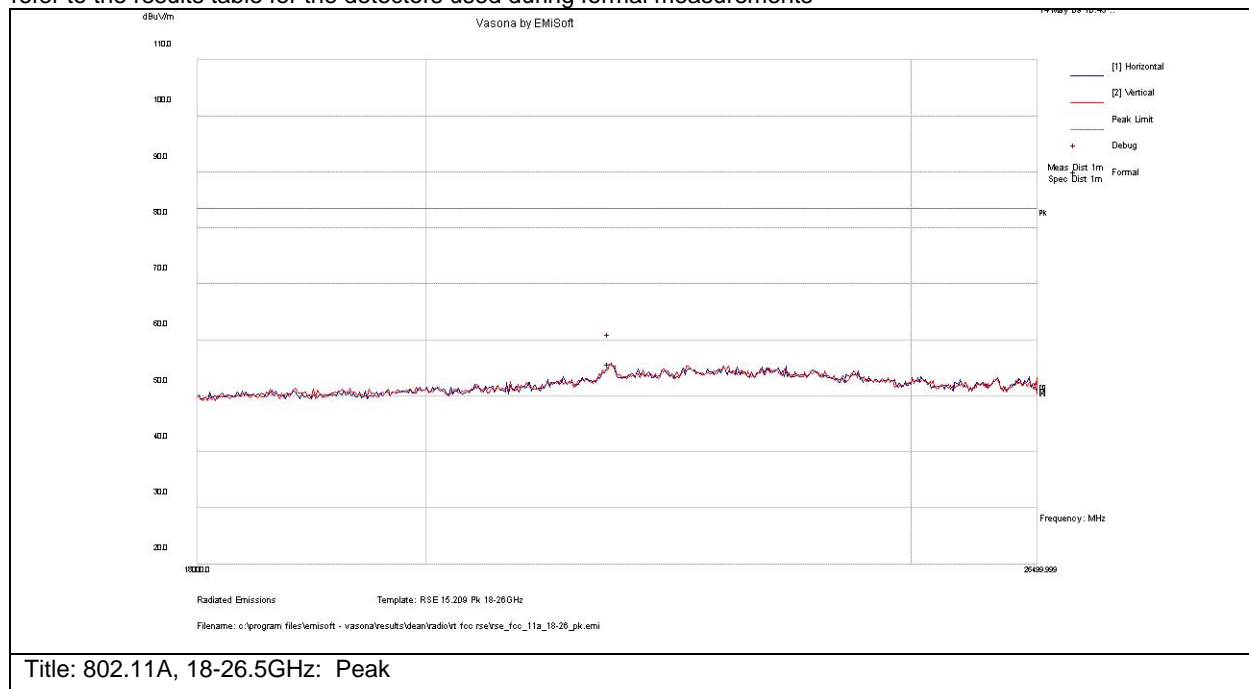
Subtest Number: 36012 - 31	Subtest Date: 29-May-2009
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Engineer	Dean Yarza	
Lab Information	Building I, 5m Anechoic	
Subtest Results		
Subtest Title	Radiated Spurious Emissions, 18-26.5GHz	
Subtest Result	Pass	
Highest Frequency	26499.999	
Lowest Frequency	18000.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
21781.118	38.4	0	17.4	55.8	NA	H	100	0	83.5	-27.8	Pass	

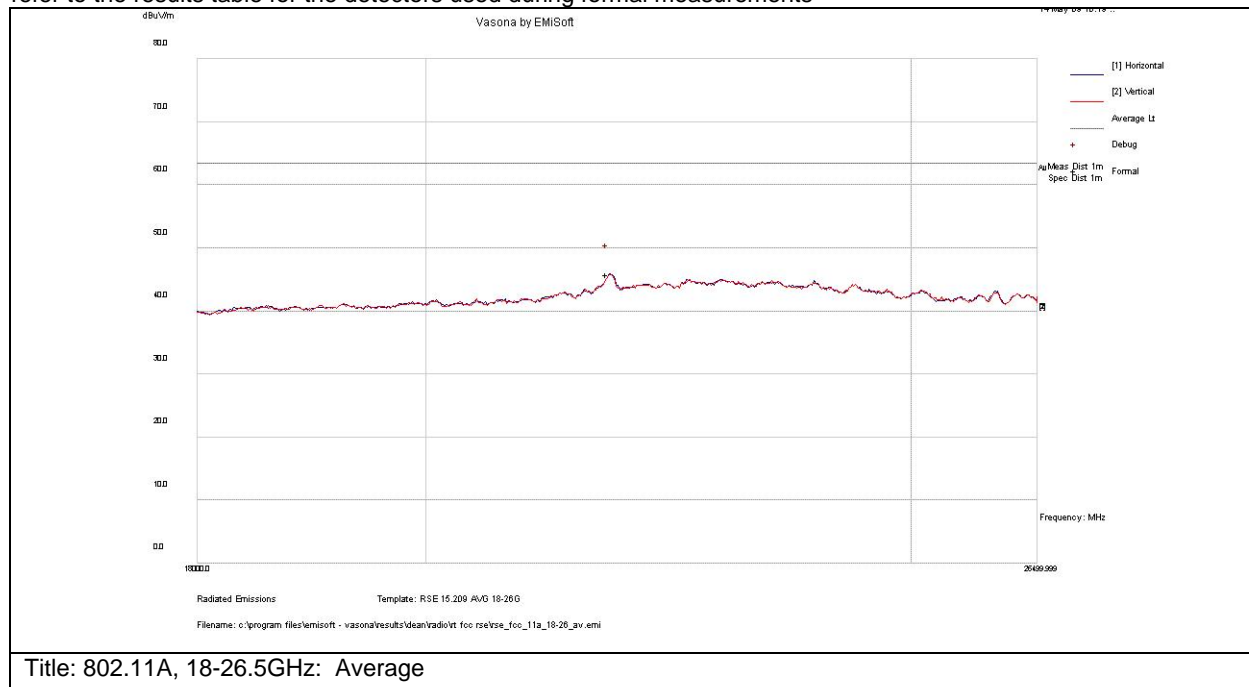
Subtest Number: 36012 - 32		Subtest Date: 29-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		



Subtest Results	
Subtest Title	Radiated Spurious Emissions, 18-26.5GHz
Subtest Result	Pass
Highest Frequency	26499.999
Lowest Frequency	18000.0
Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
21764.086	28.4	0	17.4	45.8	NA	H	100	0	63.5	-17.7	Pass	

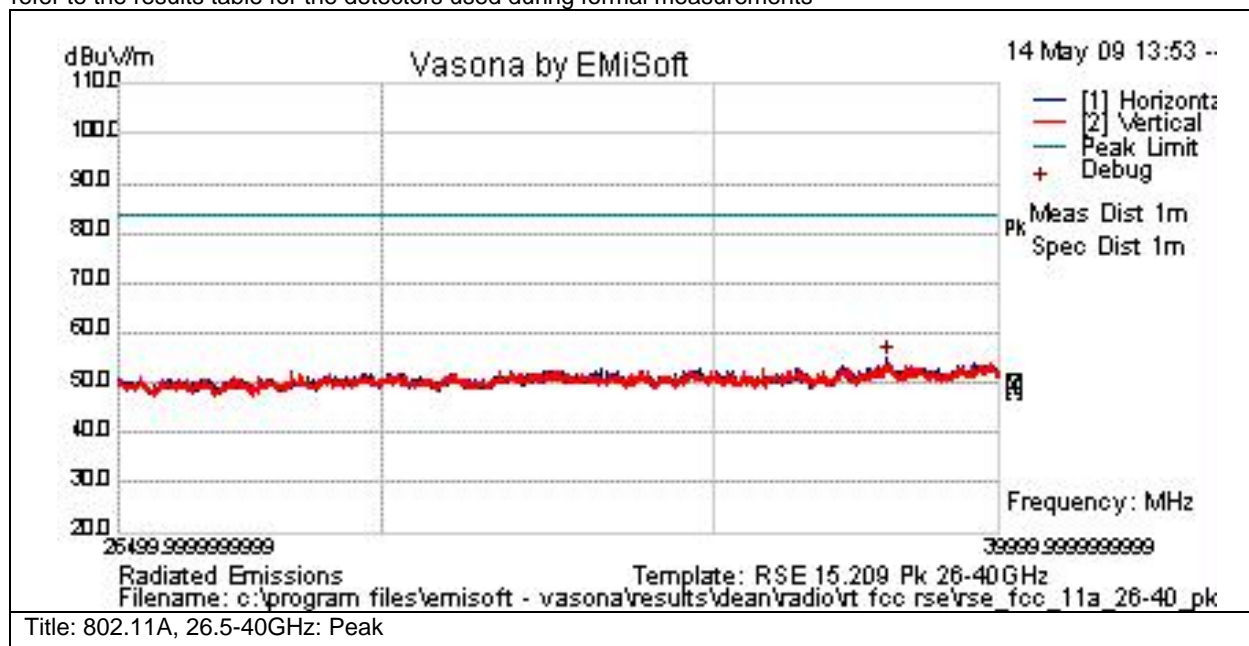
Subtest Number: 36012 - 33		Subtest Date: 29-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 26.5-40GHz		



Subtest Result	Pass	
Highest Frequency	40000.0	
Lowest Frequency	26500.0	
Comments on the above Test Results	No further comments	
Environmental Conditions:		
Temperature: within range of 54 to 95 F:	Yes	
Humidity: between 10 and 75%:	Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
37977.705	54.4	0	0.5	54.9	NA	H	100	0	83.5	-28.6	Pass	

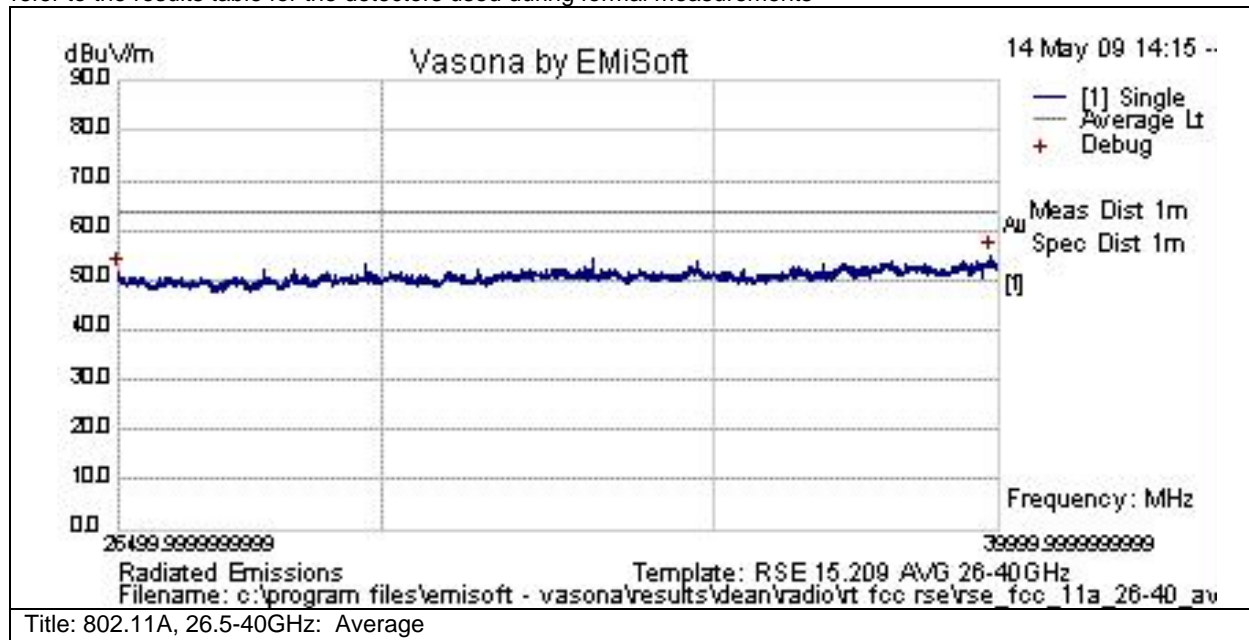
Subtest Number: 36012 - 34		Subtest Date: 29-May-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Radiated Spurious Emissions, 26.5-40GHz		
Subtest Result	Pass		
Highest Frequency	40000.0		
Lowest Frequency	26500.0		



Comments on the above Test Results	No further comments
Environmental Conditions:	
Temperature: within range of 54 to 95 F:	Yes
Humidity: between 10 and 75%:	Yes

Graphical Test Results

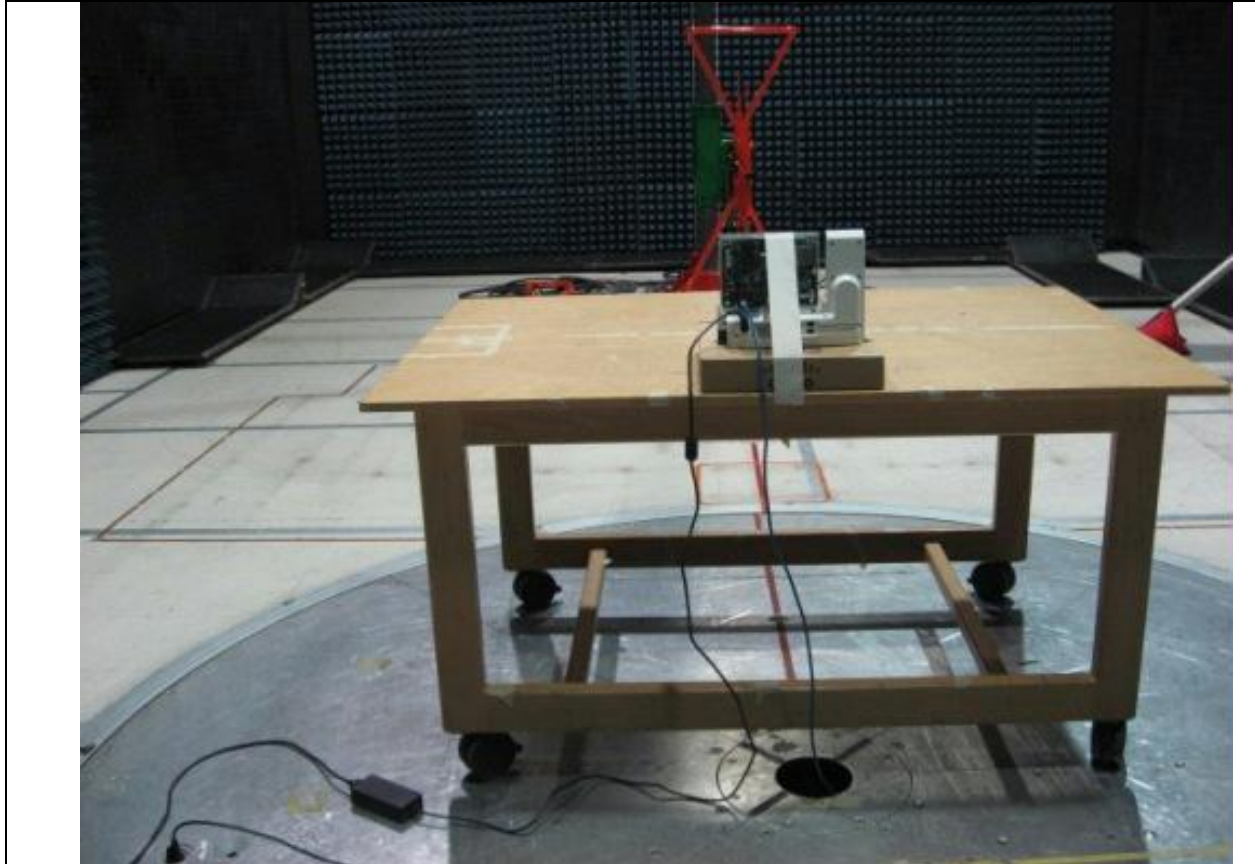
Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
39857.966	52.5	0	2.4	55	NA	H	100	0	63.5	-8.5	Pass	
26500	55.9	0	-4.1	51.8	NA	H	100	0	63.5	-11.7	Pass	

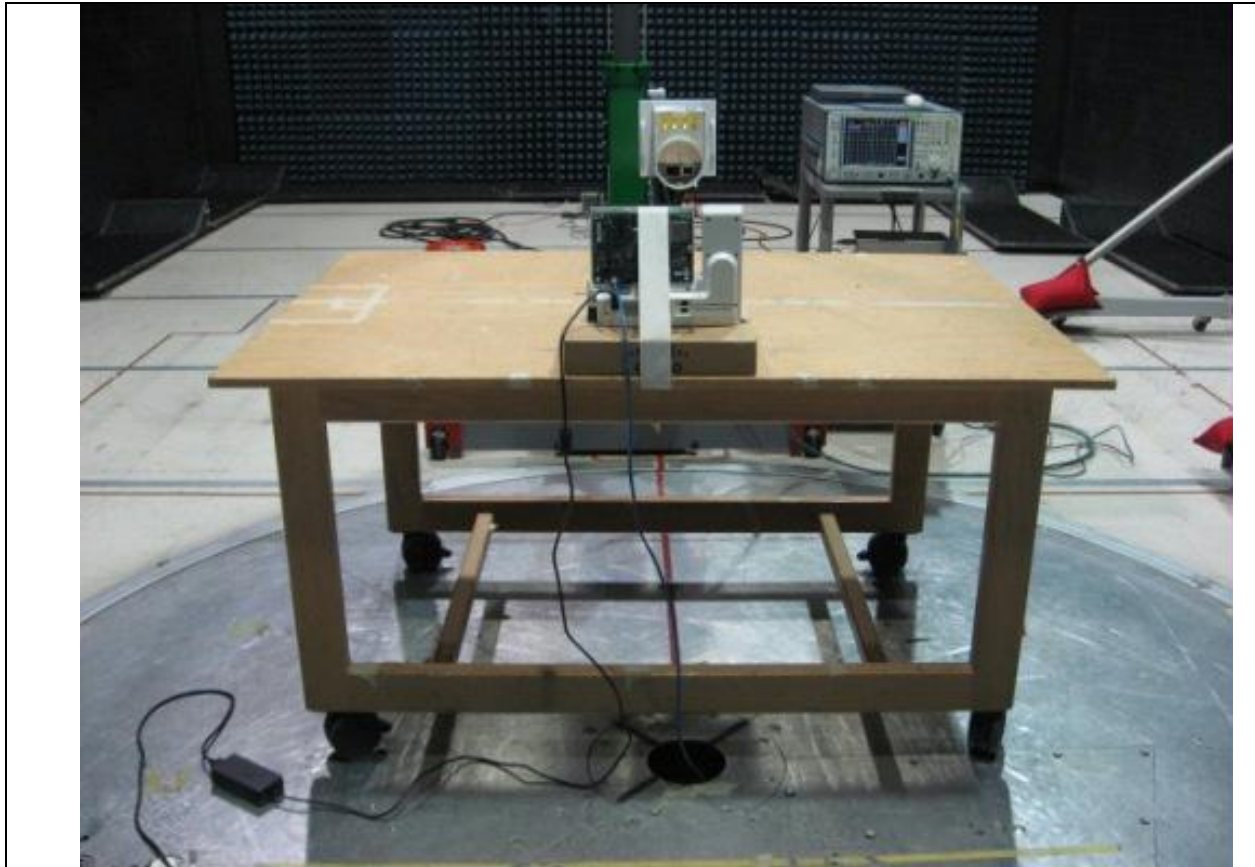
Physical Test arrangement Photograph:



Title: Radiated Spurious Emissions, 30-1GHz

Comments on the above Photograph:

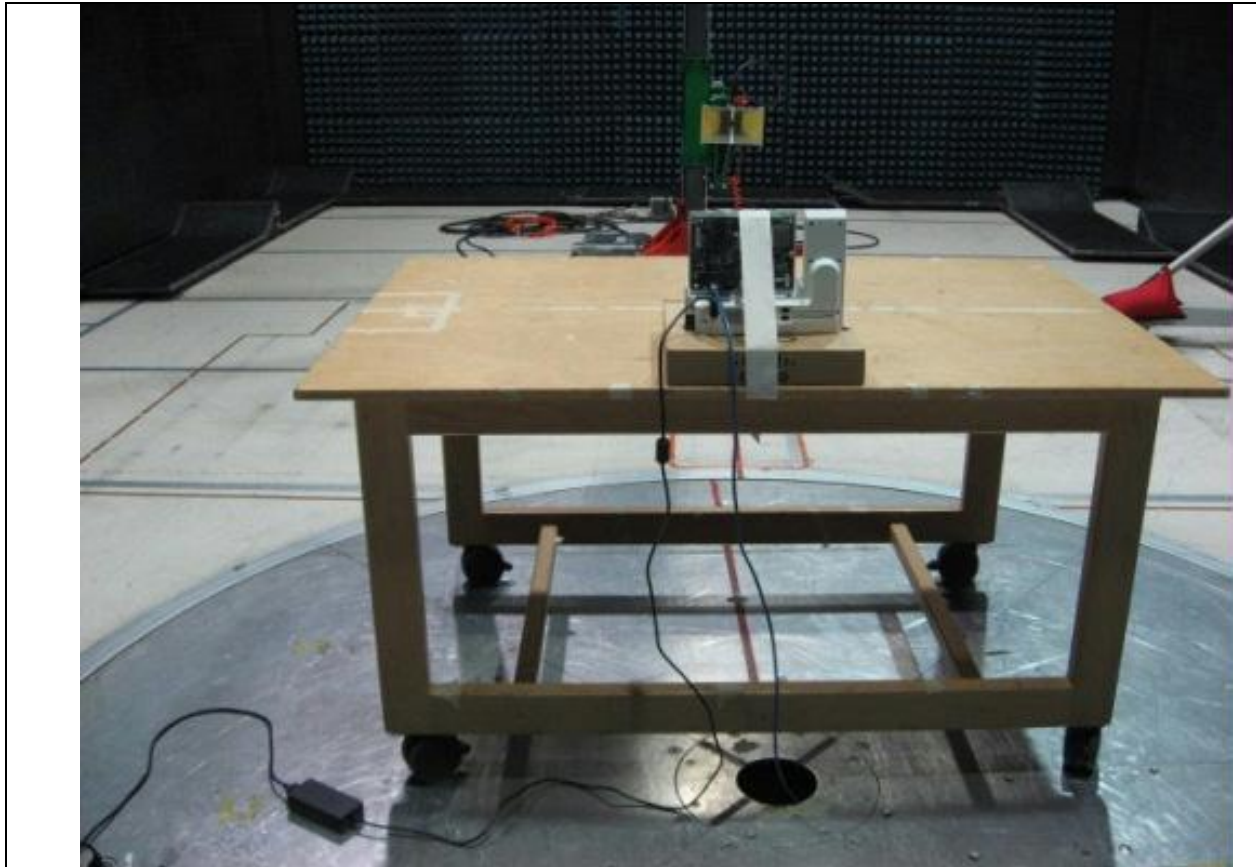
No further comments



Title: Radiated Spurious Emissions, 18-40GHz

Comments on the above Photograph:

No further comments



Title: Radiated Spurious Emissions, 1-18GHz

Comments on the above Photograph:

No further comments



Radiated Band Edge Measurements

Radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a).

Test Number: 35754		Spec ID: 860		
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments
Restricted Bandedge Measurements	Enclosure	N/A	2.4GHz - 5.825GHz	CFR47 Part 15.205, CFR47 Part 15.209, LP002, RSS210HKTA1039
Operating Mode	Mode : 1, 802.11A Test Mode			
Power Input	48, DC (+/-20%)			
Overall Result	Pass			
Comments	No further comments			
Deviation	There were no deviations from the specification			

System Number	Description	Samples	System under test	Support equipment
1	WiFi Radio test sample	S01	<input checked="" type="checkbox"/>	<input type="checkbox"/>

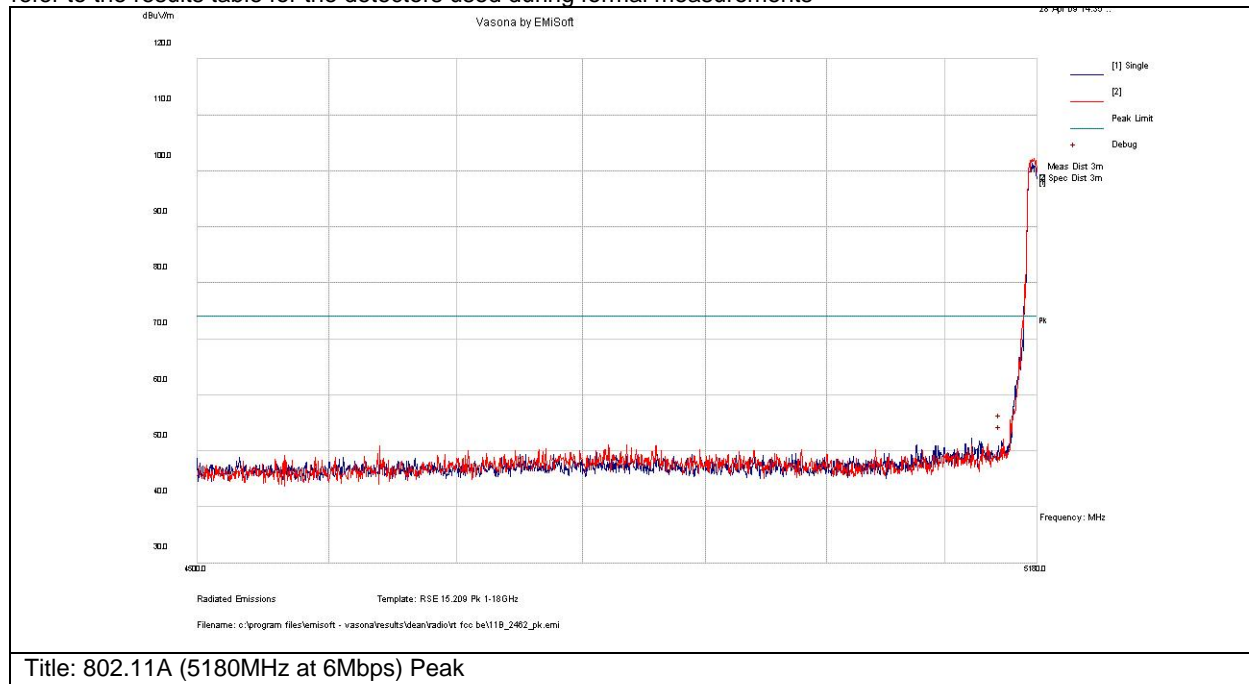
Subtest Number: 35754 - 1		Subtest Date: 30-Apr-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Peak Bandedge Results for 802.11A (5180MHz)		
Subtest Result	Pass		
Highest Frequency	5180.0		
Lowest Frequency	4500.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		
Comments:			
Equipment used:			
Equipment No	Manufacturer	Model	Description
CIS001937	Cisco	NSA 5m Chamber	NSA 5m Chamber
CIS002395	Omega	CT485B	Temp/Humidity Recorder
CIS002119	EMC Test Systems	3115	Double Ridged Guide Horn Antenna
CIS002383	Omega	CT485B	Temp/Humidity Recorder



CIS008022	Huber + Suhner	SF106A	1 meter Sucoflex cable
CIS008024	Huber + Suhner	SF106A	3 meter Sucoflex cable
CIS008103	Cisco	Unifield 5m Chamber	Unifield 5m Chamber
CIS005691	Miteq	NSP1800-25-S1	Broadband Preamplifier (1-18GHz)
CIS018314	EMC Test Systems	3115	Double Ridged Guide Horn Antenna
CIS027235	York	CNE V	Comparison Noise Emitter
CIS030443	Micro-Coax	UFB311A-0-1560-520520	RF Coaxial Cable, to 18GHz, 156 In.
CIS033602	Midwest Microwave	CSY-NMNM-80-273001	RF Coaxial Cable, 27ft. to 18GHz
CIS034074	Schaffner	RSG 2000	Reference Spectrum Generator, 1-18GHz
CIS037023	Panashield	5m Chamber	5m Anechoic Chamber
CIS037235	JFW	50CB-015	Control Box, GPIB
CIS039114	Sunol Sciences	JB1	Combination Antenna
CIS039130	Cisco	TH0118-PS	Power Supply for TH0118 1-18GHz Preamplifier
CIS040523	Rohde & Schwarz	ESCI	EMI Test Receiver
CIS041991	Cisco	TH0118	Mast Mount Preamplifier Array, 1-18GHz
CIS042000	Agilent	E4440A	Spectrum Analyzer

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

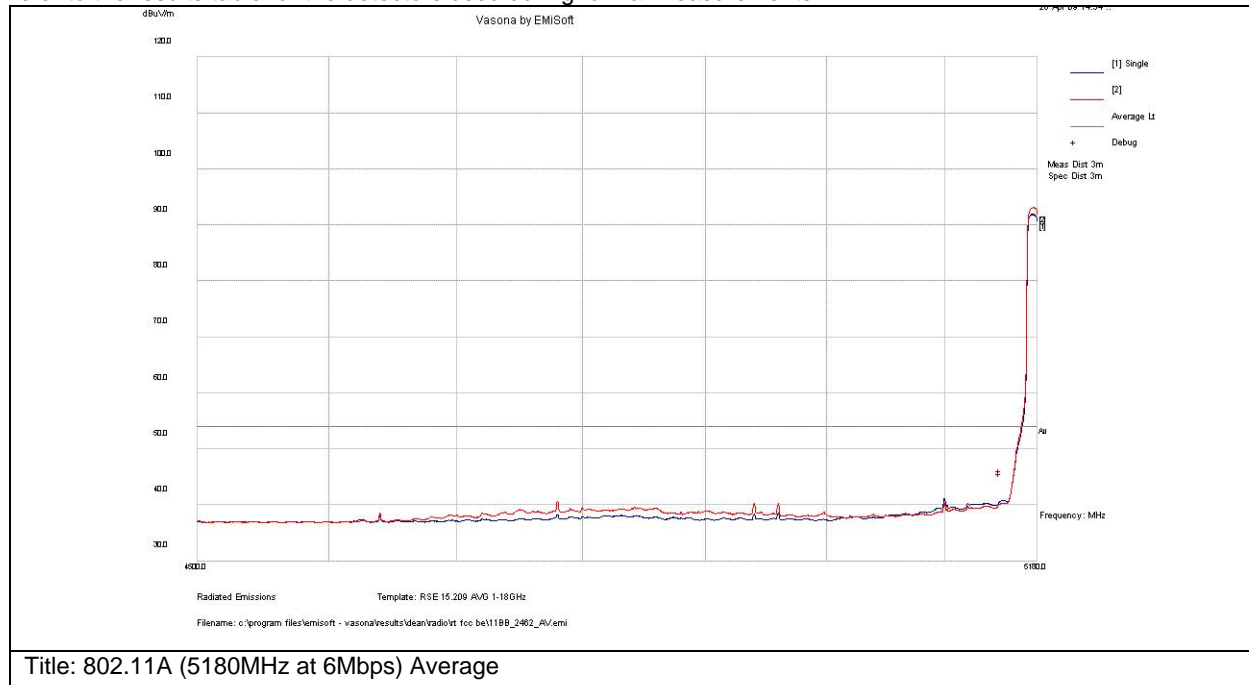


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5150	47.9	6.4	-3.2	51.1	Peak(Scan)	V	139	184	74	-22.9	Pass	
5150	45.8	6.4	-3.2	49	Peak(Scan)	H	107	241	74	-25	Pass	

Subtest Number: 35754 - 2		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Average Bandedge Results for 802.11A (5180MHz)	
Subtest Result		Pass	
Highest Frequency		5180.0	
Lowest Frequency		4500.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

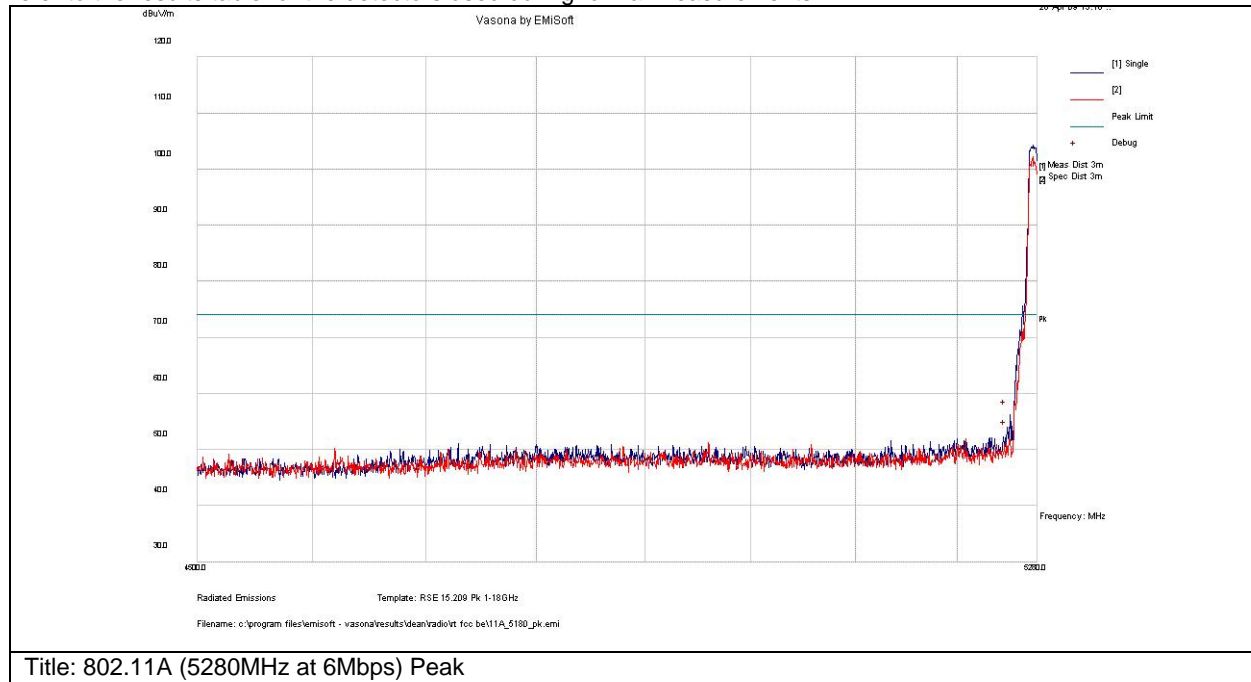


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5150	37.5	6.4	-3.2	40.7	Av	V	139	184	54	-13.3	Pass	
5150	37.1	6.4	-3.2	40.3	Av	H	107	241	54	-13.7	Pass	

Subtest Number: 35754 - 3		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Peak Bandedge Results for 802.11A (5280MHz)	
Subtest Result		Pass	
Highest Frequency		5280.0	
Lowest Frequency		4500.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

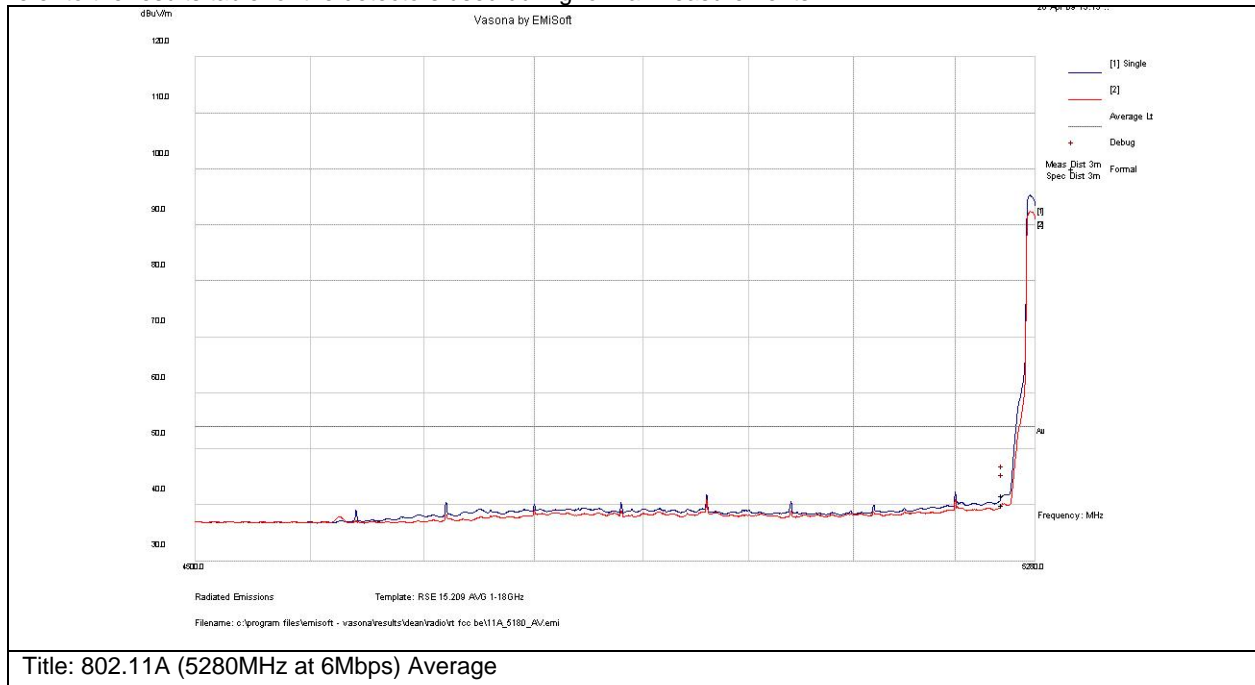


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5250	49.8	6.5	-2.9	53.4	Peak(Scan)	H	106	236	74	-20.6	Pass	
5250	46.2	6.5	-2.9	49.7	Peak(Scan)	V	122	146	74	-24.3	Pass	

Subtest Number: 35754 - 4		Subtest Date: 30-Apr-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Average Bandedge Results for 802.11A (5280MHz)		
Subtest Result	Pass		
Highest Frequency	5280.0		
Lowest Frequency	4500.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

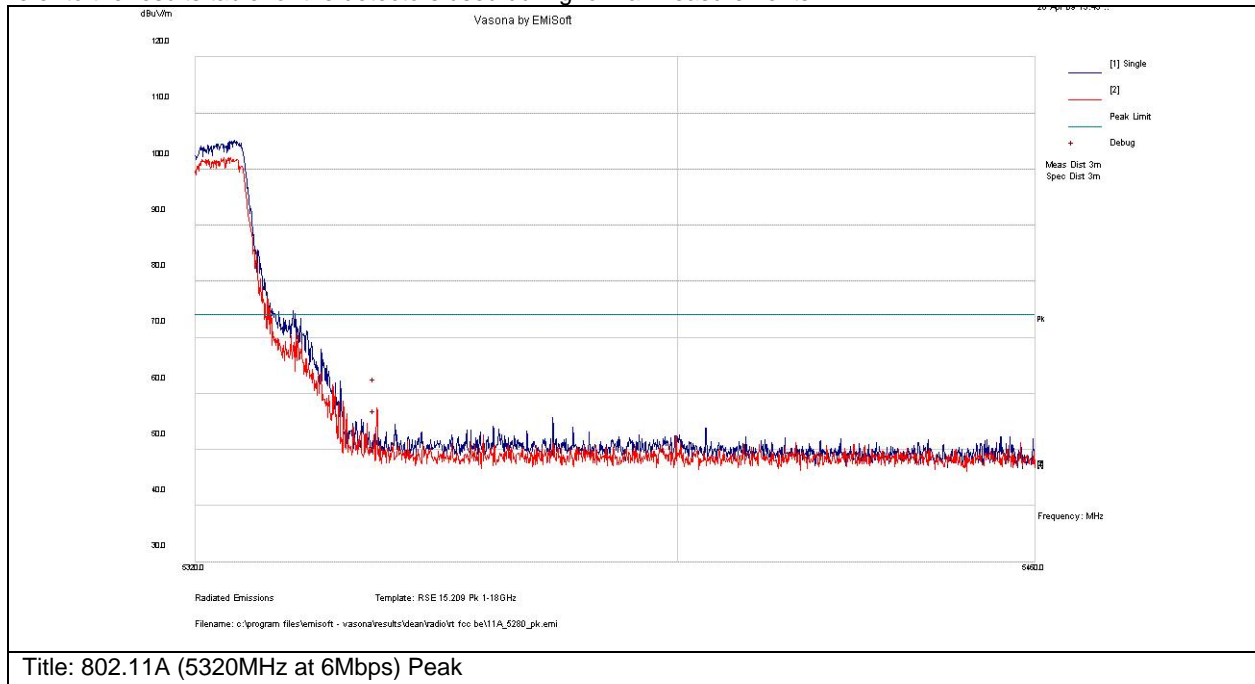


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5250	38.2	6.5	-2.9	41.7	Av	H	106	236	54	-12.3	Pass	
5250	36.5	6.5	-2.9	40	Av	V	122	146	54	-14	Pass	

Subtest Number: 35754 - 5		Subtest Date: 30-Apr-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Peak Bandedge Results for 802.11A (5320MHz)		
Subtest Result	Pass		
Highest Frequency	5460.0		
Lowest Frequency	5320.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

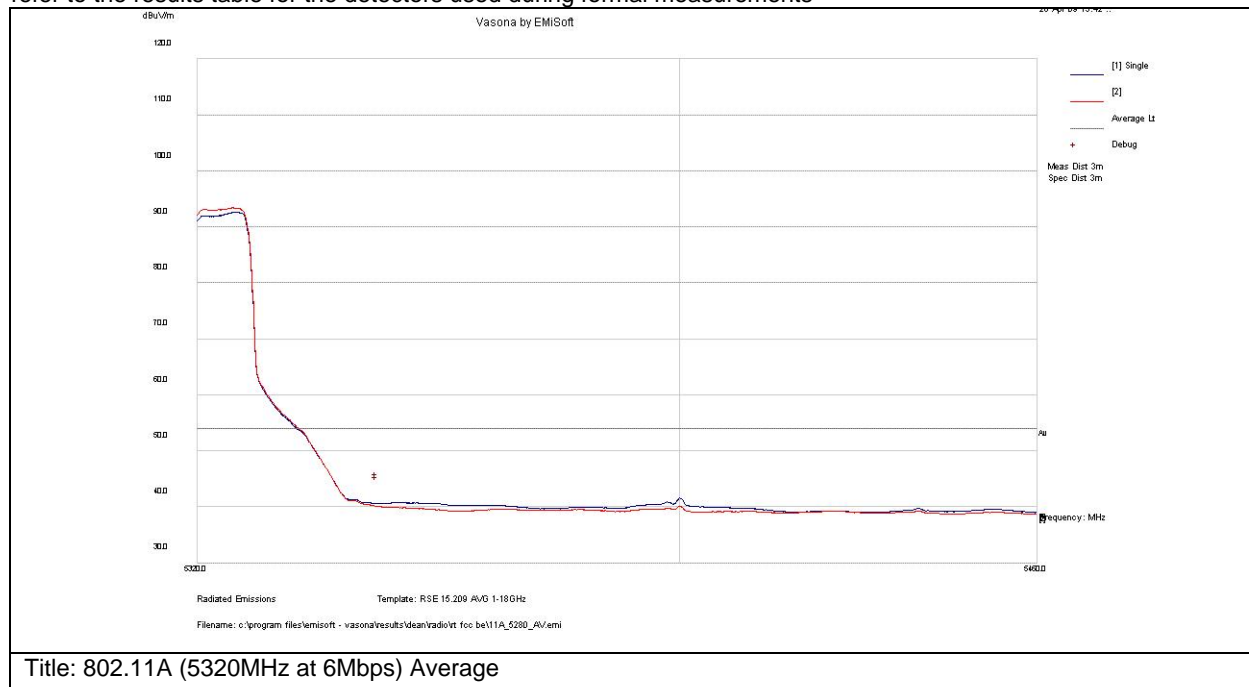


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5350	53.7	6.6	-3	57.2	Peak(Scan)	V	104	0	74	-16.8	Pass	
5350	48	6.6	-3	51.6	Peak(Scan)	H	109	66	74	-22.4	Pass	

Subtest Number: 35754 - 6		Subtest Date: 30-Apr-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Average Bandedge Results for 802.11A (5320MHz)		
Subtest Result	Pass		
Highest Frequency	5460.0		
Lowest Frequency	5320.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

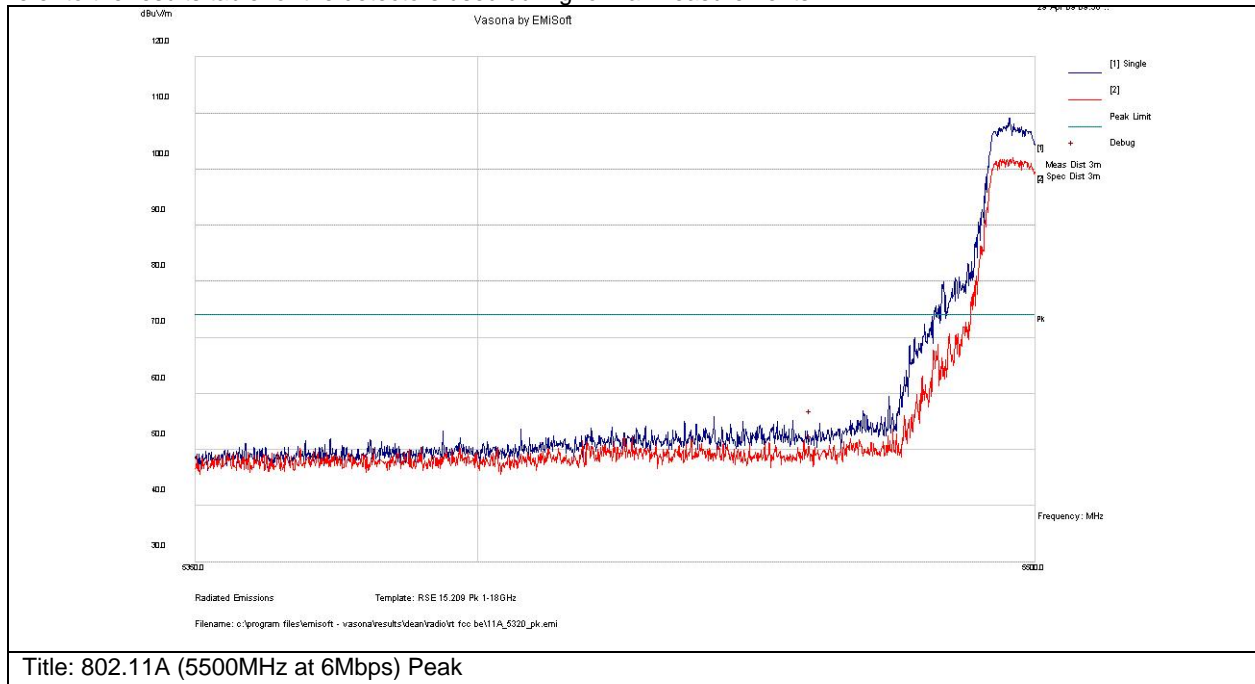


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5350	37.1	6.6	-3	40.6	Av	H	109	20	54	-13.4	Pass	
5350	36.5	6.6	-3	40	Av	V	104	0	54	-14	Pass	

Subtest Number: 35754 - 7		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Peak Bandedge Results for 802.11A (5500MHz)	
Subtest Result		Pass	
Highest Frequency		5500.0	
Lowest Frequency		5350.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

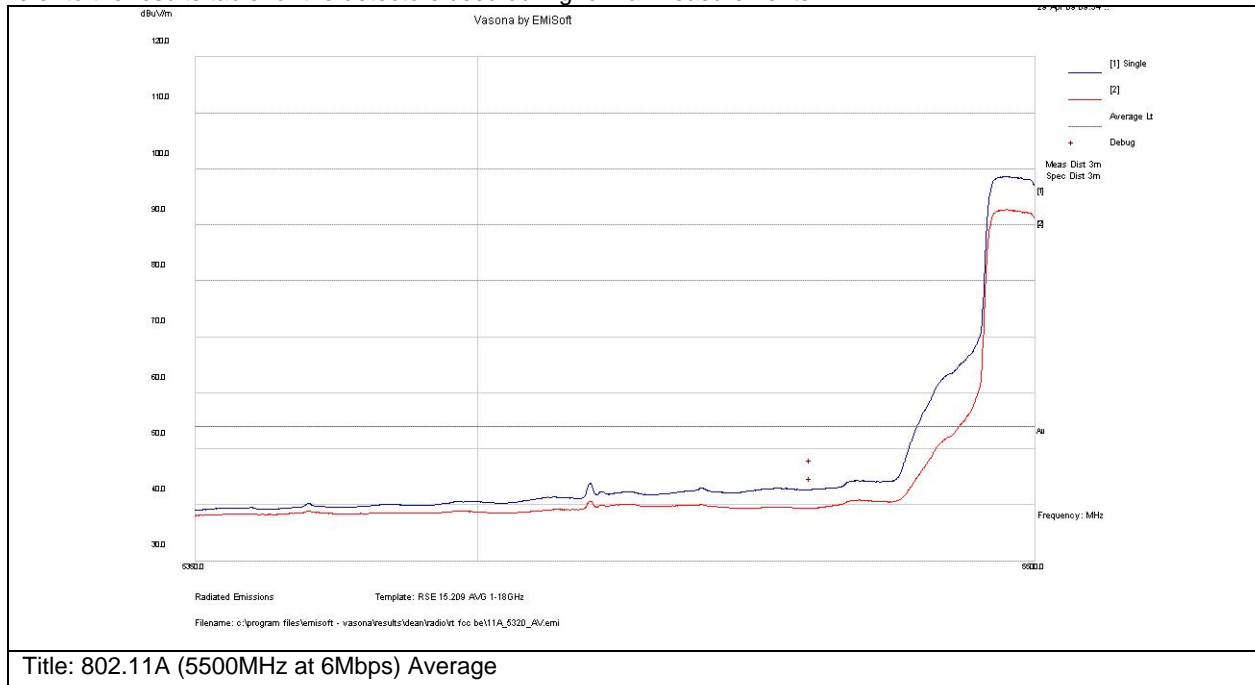


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5460	48.3	6.6	-3.3	51.7	Peak(Scan)	H	116	52	74	-22.3	Pass	
5460	43.8	6.6	-3.3	47.2	Peak(Scan)	V	176	114	74	-26.8	Pass	

Subtest Number: 35754 - 8		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Average Bandedge Results for 802.11A (5500MHz)	
Subtest Result		Pass	
Highest Frequency		5500.0	
Lowest Frequency		5350.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

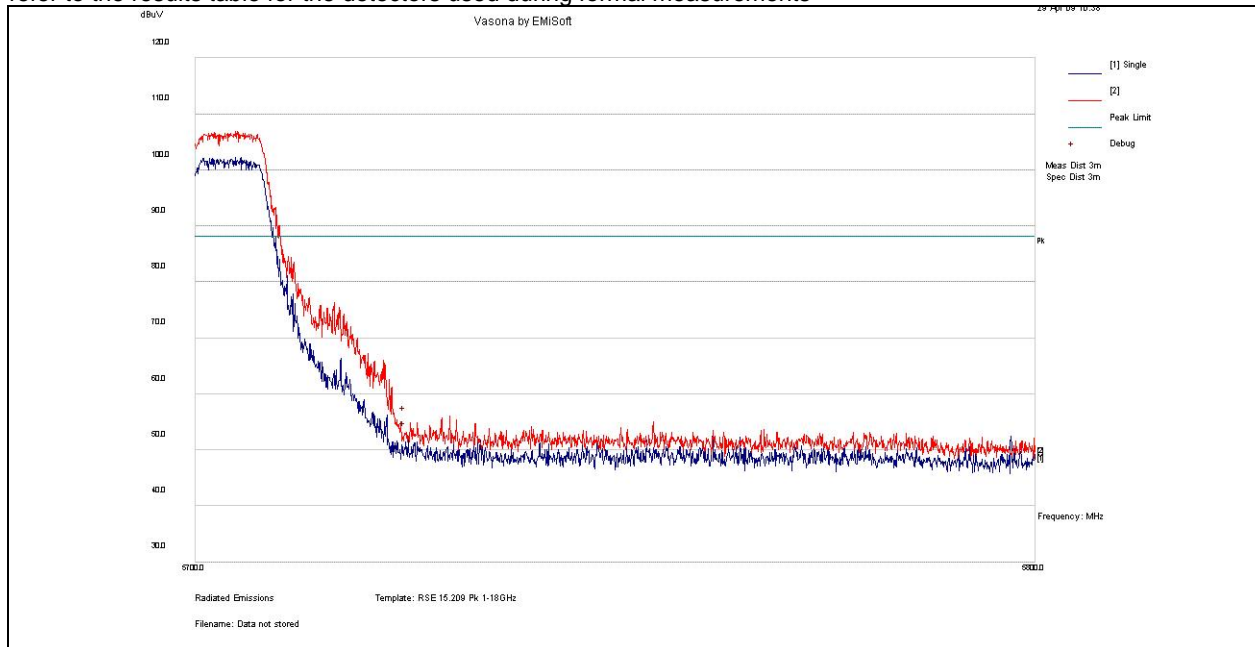


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5460	39.4	6.6	-3.3	42.7	Av	H	116	52	54	-11.3	Pass	
5460	36.1	6.6	-3.3	39.4	Av	V	176	114	54	-14.6	Pass	

Subtest Number: 35754 - 9		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Peak Bandedge Results for 802.11A (5700MHz)	
Subtest Result		Pass	
Highest Frequency		5800.0	
Lowest Frequency		5700.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	
Comments:			

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: 802.11A (5700MHz at 6Mbps) Peak

Test Results Table

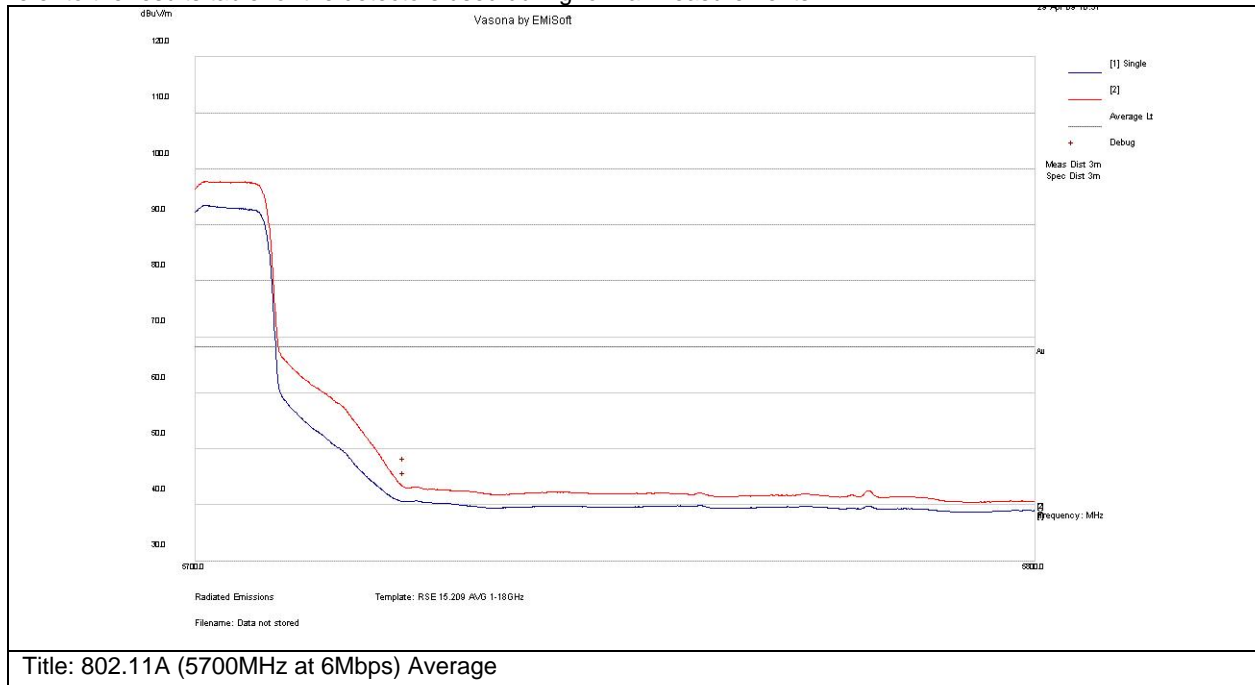


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5725	49.1	6.8	-3.6	52.2	Peak(Scan)	H	102	52	88.2	-36	Pass	
5725	46.4	6.8	-3.6	49.6	Peak(Scan)	V	159	111	88.2	-38.6	Pass	

Subtest Number: 35754 - 10		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Average Bandedge Results for 802.11A (5700MHz)	
Subtest Result		Pass	
Highest Frequency		5800.0	
Lowest Frequency		5700.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

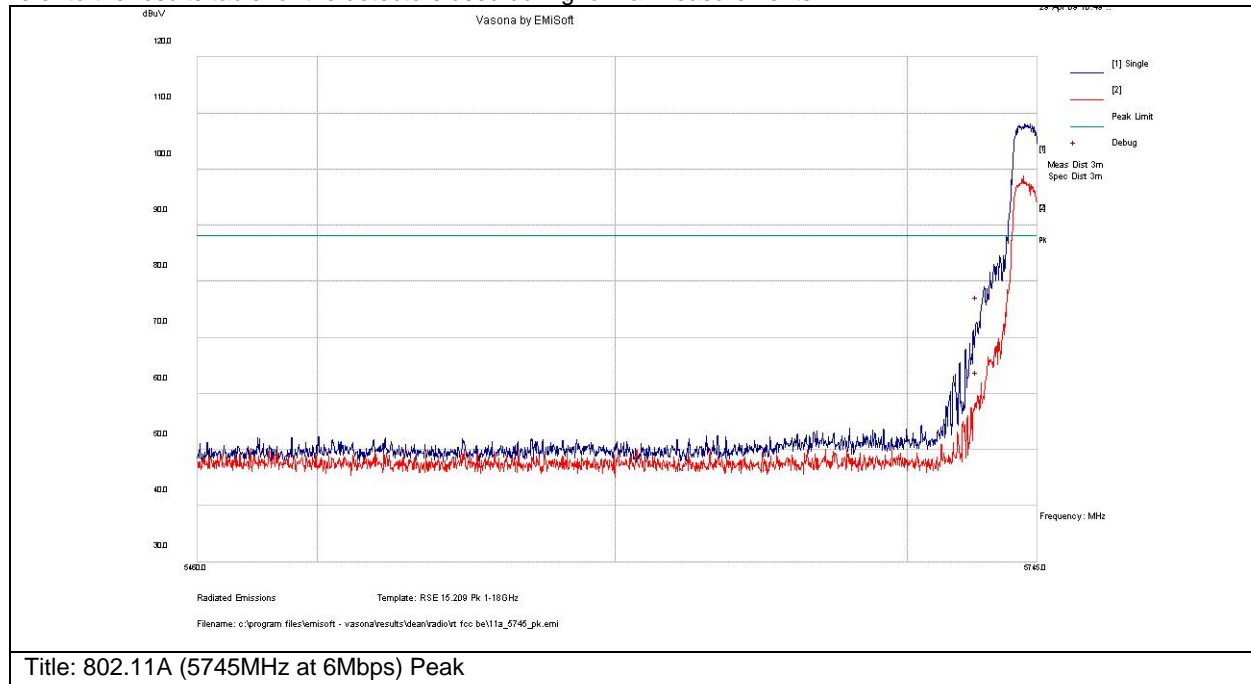


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5725	39.8	6.8	-3.6	43	Av	H	102	52	68.2	-25.2	Pass	
5725	37.4	6.8	-3.6	40.5	Av	V	159	111	68.2	-27.7	Pass	

Subtest Number: 35754 - 11		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Peak Bandedge Results for 802.11A (5745MHz)	
Subtest Result		Pass	
Highest Frequency		5745.0	
Lowest Frequency		5460.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

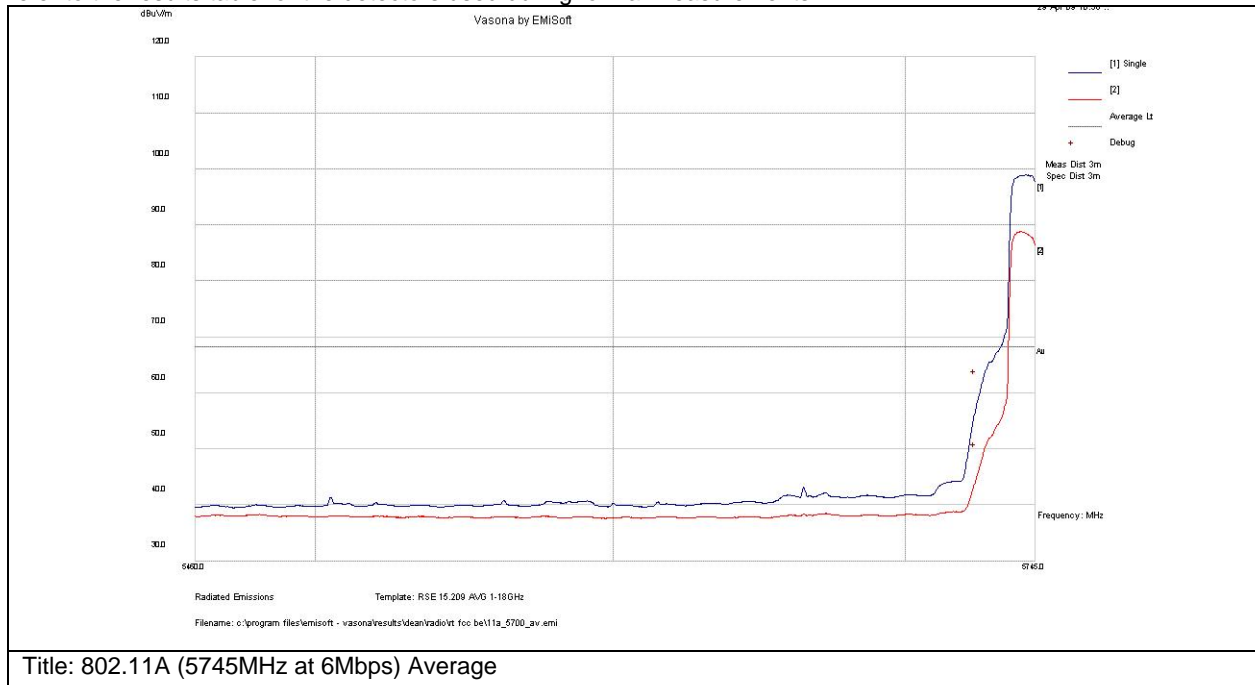


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5725	68.8	6.8	-3.6	71.9	Peak(Scan)	H	149	61	88.2	-16.3	Pass	
5725	55.3	6.8	-3.6	58.4	Peak(Scan)	V	189	72	88.2	-29.8	Pass	

Subtest Number: 35754 - 12		Subtest Date: 30-Apr-2009	
Engineer	Dean Yarza		
Lab Information	Building I, 5m Anechoic		
Subtest Results			
Subtest Title	Average Bandedge Results for 802.11A (5745MHz)		
Subtest Result	Pass		
Highest Frequency	5745.0		
Lowest Frequency	5460.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

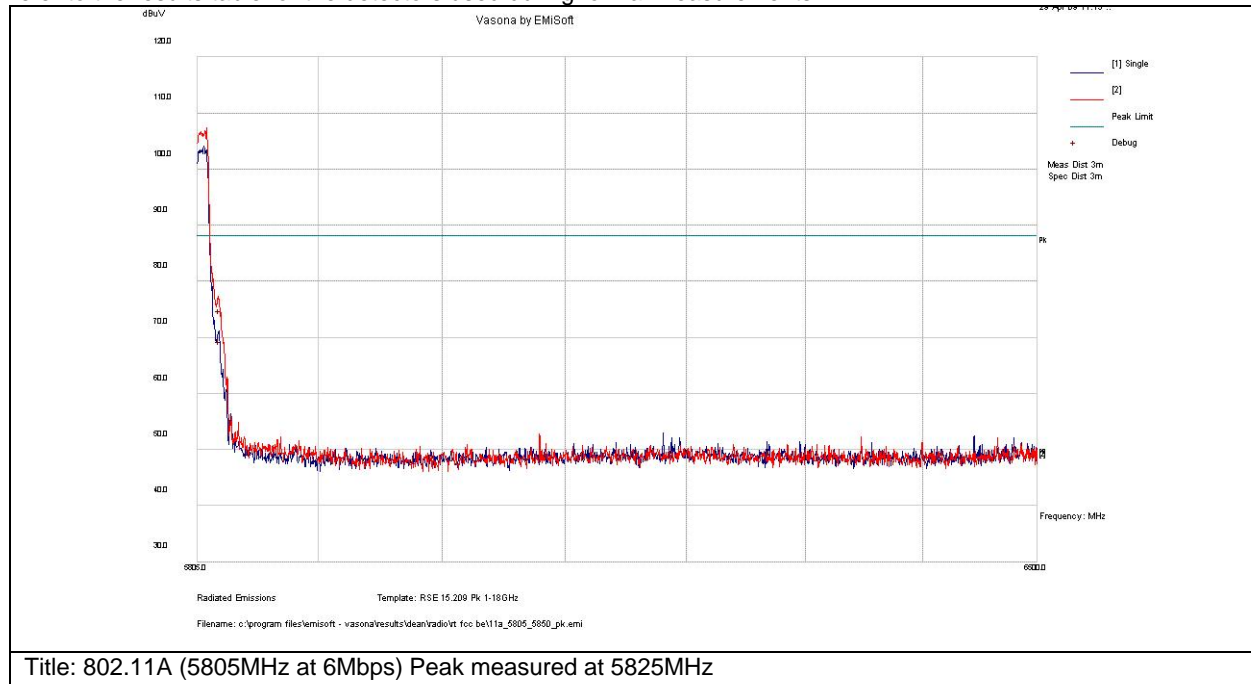


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5725	55.5	6.8	-3.6	58.7	Av	H	149	61	68.2	-9.5	Pass	
5725	42.5	6.8	-3.6	45.6	Av	V	189	72	68.2	-22.6	Pass	

Subtest Number: 35754 - 13		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Peak Bandedge Results for 802.11A (5805MHz)	
Subtest Result		Pass	
Highest Frequency		6500.0	
Lowest Frequency		5805.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

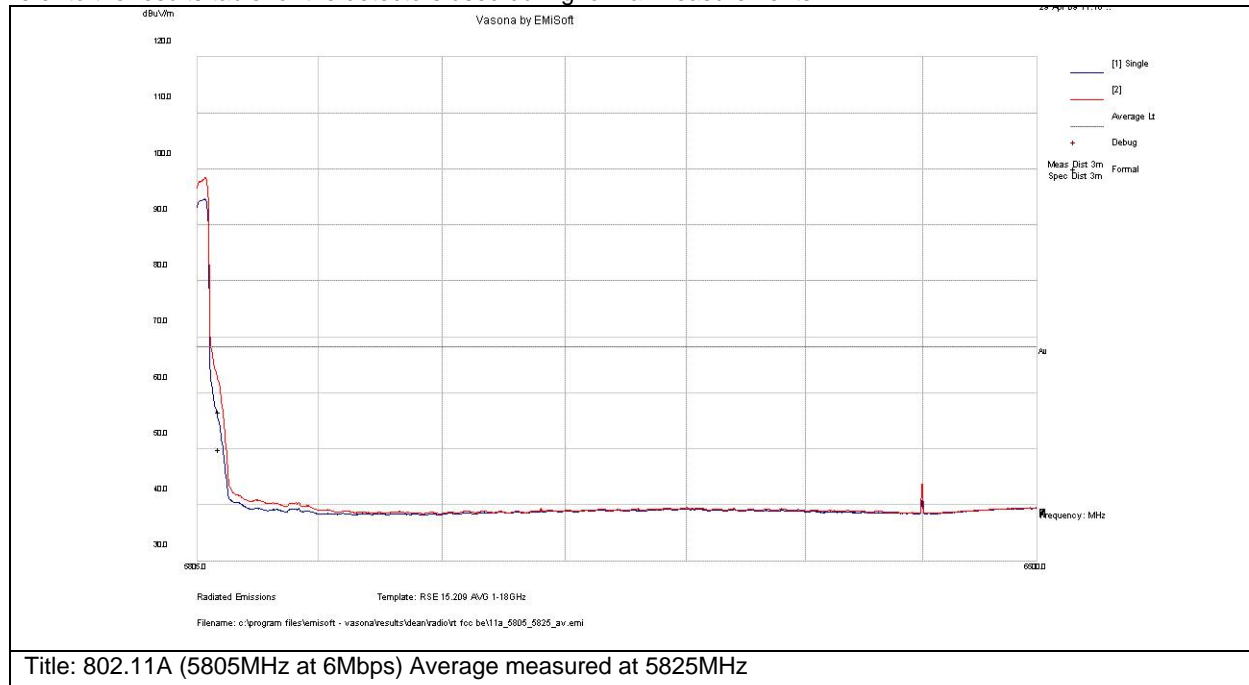


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5825	66.3	6.8	-3.6	69.5	Peak(Scan)	H	102	54	88.2	-18.7	Pass	
5825	60.7	6.8	-3.6	63.9	Peak(Scan)	H	102	54	88.2	-24.3	Pass	

Subtest Number: 35754 - 14		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Average Bandedge Results for 802.11A (5805MHz)	
Subtest Result		Pass	
Highest Frequency		6500.0	
Lowest Frequency		5805.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

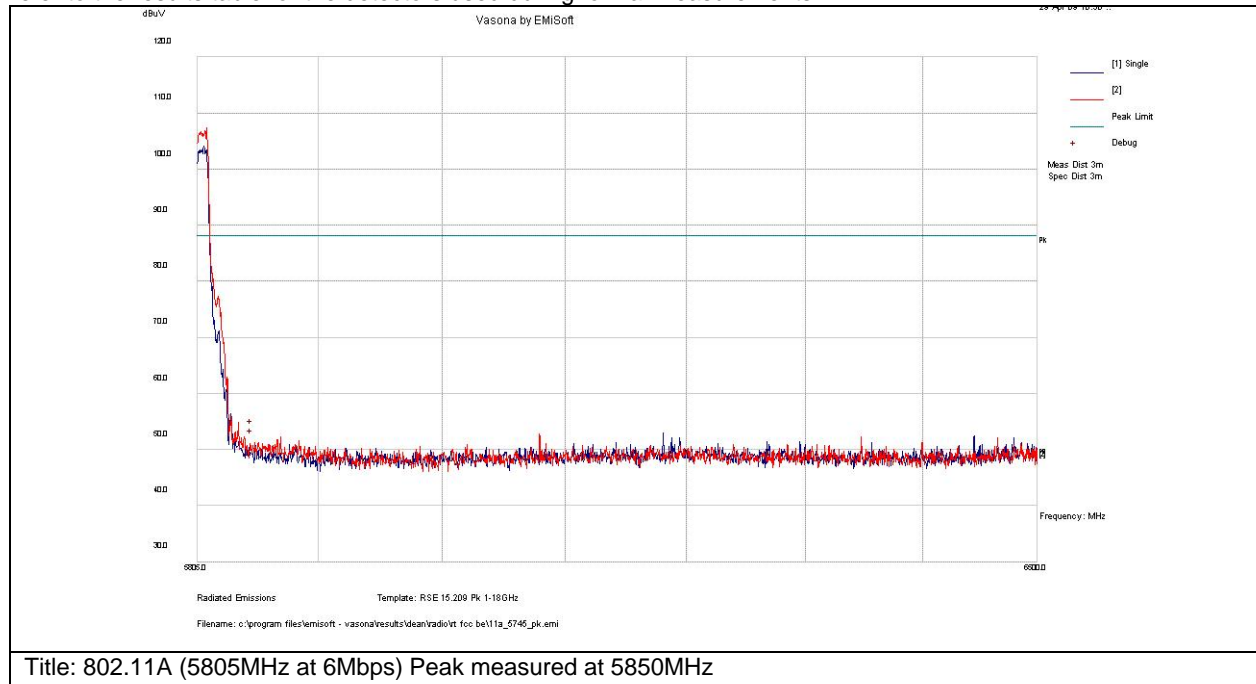


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
5825	53.4	6.8	-3.6	56.6	Av	H	102	54	68.2	-11.6	Pass	
5825	46.8	6.8	-3.6	50	Av	H	102	54	68.2	-18.2	Pass	

Subtest Number: 35754 - 15		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Peak Bandedge Results for 802.11A (5805MHz)	
Subtest Result		Pass	
Highest Frequency		6500.0	
Lowest Frequency		5805.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

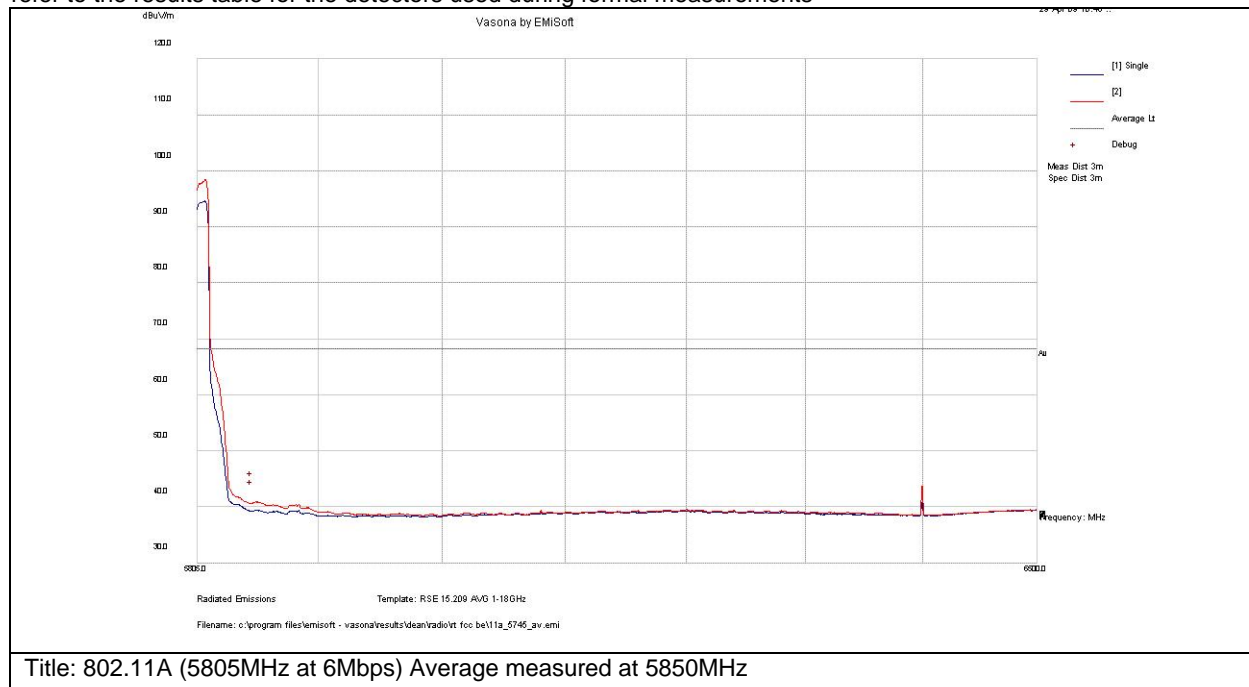


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5850	46.6	6.9	-3.6	49.9	Peak(Scan)	H	102	54	88.2	-38.3	Pass	
5850	45	6.9	-3.6	48.3	Peak(Scan)	V	158	125	88.2	-39.9	Pass	

Subtest Number: 35754 - 16		Subtest Date: 30-Apr-2009	
Engineer		Dean Yarza	
Lab Information		Building I, 5m Anechoic	
Subtest Results			
Subtest Title		Average Bandedge Results for 802.11A (5805MHz)	
Subtest Result		Pass	
Highest Frequency		6500.0	
Lowest Frequency		5805.0	
Comments on the above Test Results		No further comments	
Environmental Conditions:			
Temperature: within range of 54 to 95 F:		Yes	
Humidity: between 10 and 75%:		Yes	

Graphical Test Results

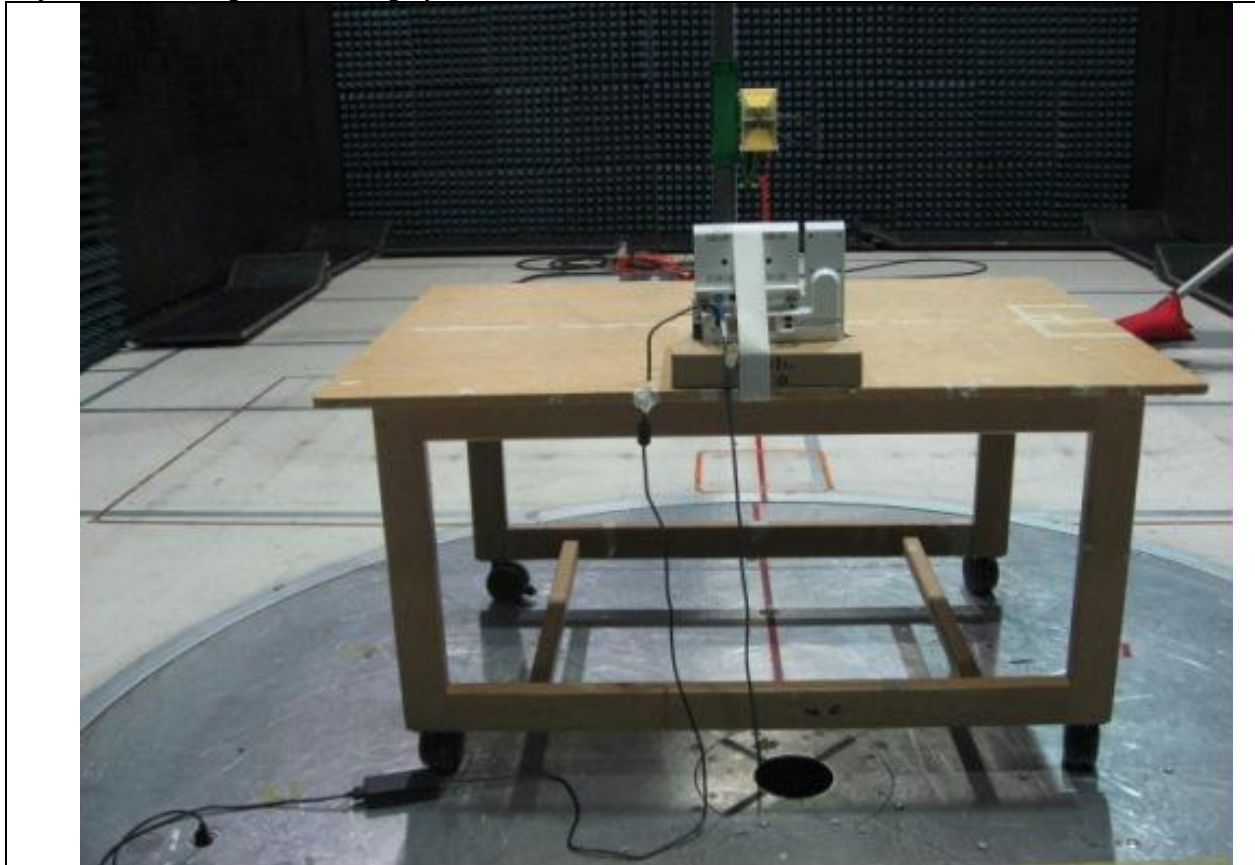
Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
5850	37.5	6.9	-3.6	40.8	Av	H	102	54	68.2	-27.4	Pass	
5850	36	6.9	-3.6	39.3	Av	V	158	125	68.2	-28.9	Pass	

Physical Test arrangement Photograph:



Title: Bandedge Test Configuration (Rear View)

Comments on the above Photograph:

No further comments



Title: Banded Test Configuration (Front View)

Comments on the above Photograph:

No further comments



Co-Locator Radiated Spurious Emissions

15.205 & RSS-210 sec2.7:

Radiated emissions which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a).

Test Number: 36568 Spec ID: 441				
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments
Co-Located Transmitters	Enclosure	N/A	30MHz-40GHz	Compliance based upon meeting the emission levels for radiated spurious emissions as stated in RSS-210, FCC part 15.209 and HKTA1039. CISPR limits are not applicable for this test
Operating Mode	Mode : 2, Co-locator Test Mode			
Power Input	48, DC (+/-20%)			
Overall Result	Pass			
Comments	No further comments			
Deviation	There were no deviations from the specification			

System Number	Description	Samples	System under test	Support equipment
1	WiFi Radio test sample	S01	<input checked="" type="checkbox"/>	<input type="checkbox"/>

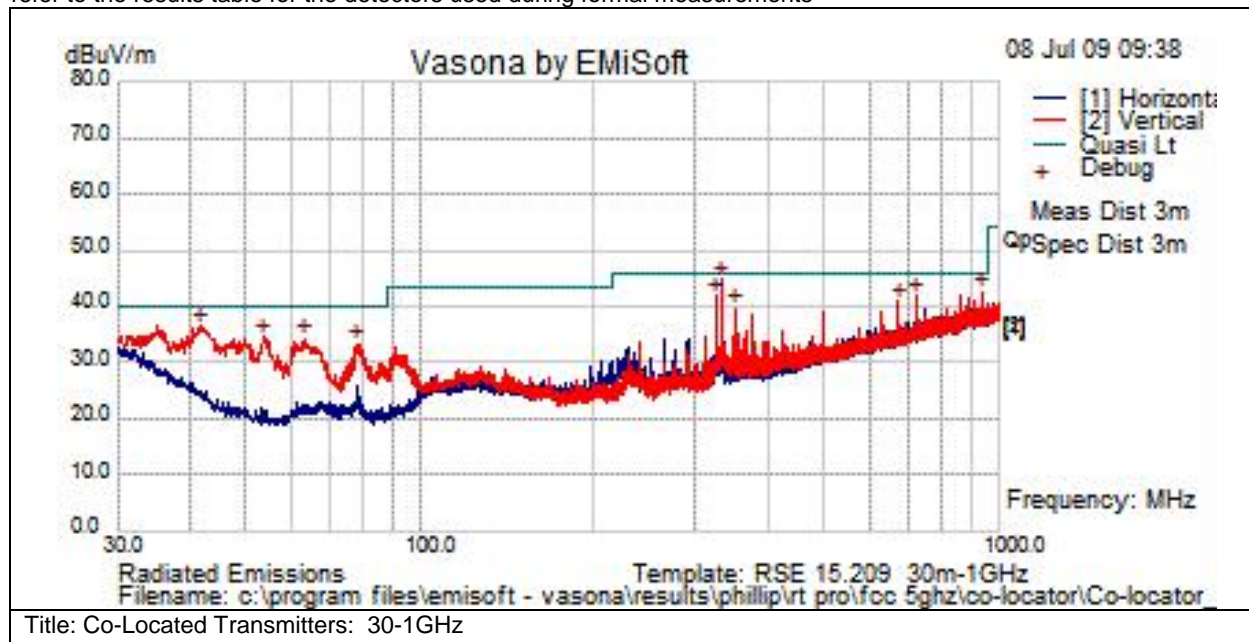
Subtest Number: 36568 - 1		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	1000.0		
Lowest Frequency	30.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		
Comments:			
Equipment used:			
Equipment No	Manufacturer	Model	Description
CIS002119	EMC Test Systems	3115	Double Ridged Guide Horn Antenna
CIS008022	Huber + Suhner	SF106A	1 meter Sucoflex cable



CIS008023	Huber + Suhner	SF106A	3 meter Sucoflex cable
CIS005691	Miteq	NSP1800-25-S1	Broadband Preamplifier (1-18GHz)
CIS018962	York	CNE V	Comparison Noise Emitter, 30 - 1000MHz
CIS023697	Micro-Coax	UFB197C-1-3144-504504	RF Coaxial Cable, to 18GHz, 314.4 in
CIS023687	Dytran	4123B	Signal Conditioner
CIS026860	Cisco	1840	18-40GHz EMI Test Head/Verification Fixture
CIS030666	Micro-Tronics	BRM50702-02	Band Reject Filter, Stop Band=2.4-2.5GHz
CIS031700	Micro-Tronics	BRC50705	Notch Filter, SB:5.725-5.875GHz, to 12 GHz
CIS034302	Micro-Tronics	BRC50704-02	Notch Filter, SB:5.470-5.725GHz, to 12GHz
CIS035610	Micro-Tronics	BRC50703-02	Notch Filter, SB:5.150-5.350GHz, to 11GHz
CIS024905	Agilent	E4440A	Precision Spectrum Analyzer
CIS036710	Cisco	1840	18-40GHz EMI Test Head/Verification Fixture
CIS037232	JFW	50CB-015	Control Box, GPIB
CIS038393	Agilent	E4446A	PSA Spectrum Analyzer
CIS042014	Rohde & Schwarz	ESCI	EMI Test Receiver
CIS041944	Sunol Sciences	JB1	Combination Antenna, 30MHz-2GHz
CIS043023	Anritsu	MT8852B-042	EDR Bluetooth Test Set
CIS043113	Huber + Suhner	Sucoflex 106PG	RF N type Antenna cable 18GHz

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements





Test Results Table

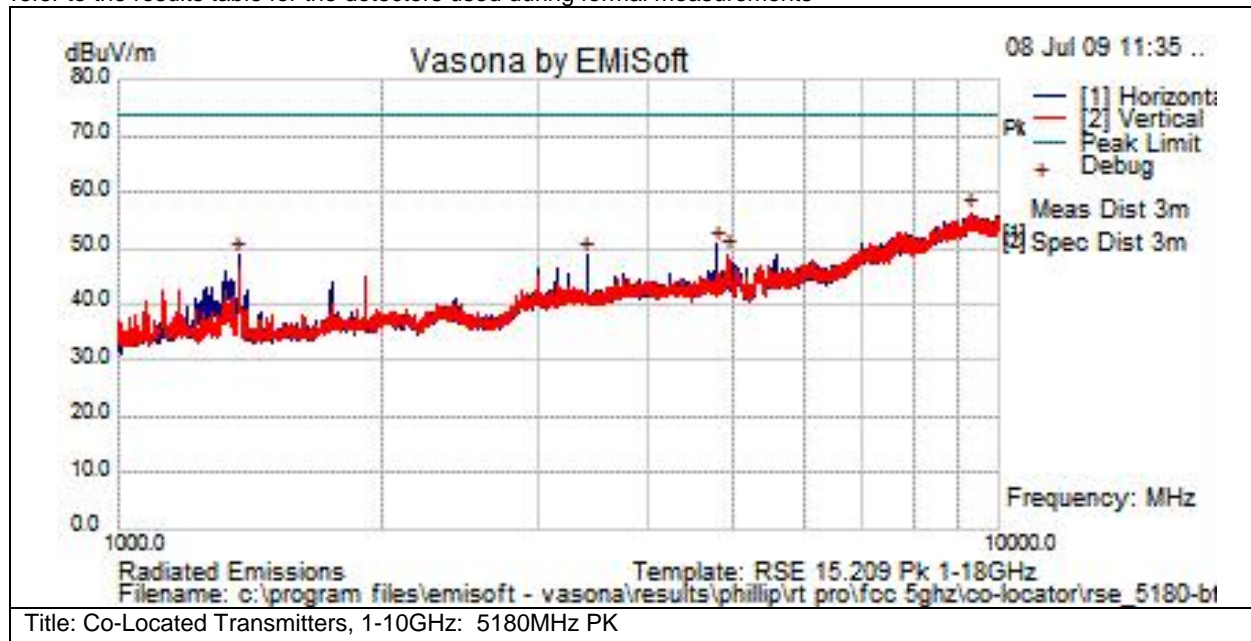
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
333.333	27.6	2.4	14.1	44.1	Qp	V	127	45	46	-1.9	Pass	
720.016	15.9	3.5	20.5	39.9	Qp	V	127	146	46	-6.1	Pass	
325.036	23.3	2.4	14	39.7	Qp	V	137	54	46	-6.3	Pass	
41.543	20.8	0.8	11.8	33.4	Qp	V	100	261	40	-6.6	Pass	
672.011	15	3.4	19.8	38.2	Qp	V	100	84	46	-7.8	Pass	
936.025	11.2	4	22.9	38.2	Qp	V	101	126	46	-7.8	Pass	

Subtest Number: 36568 - 2		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		



Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

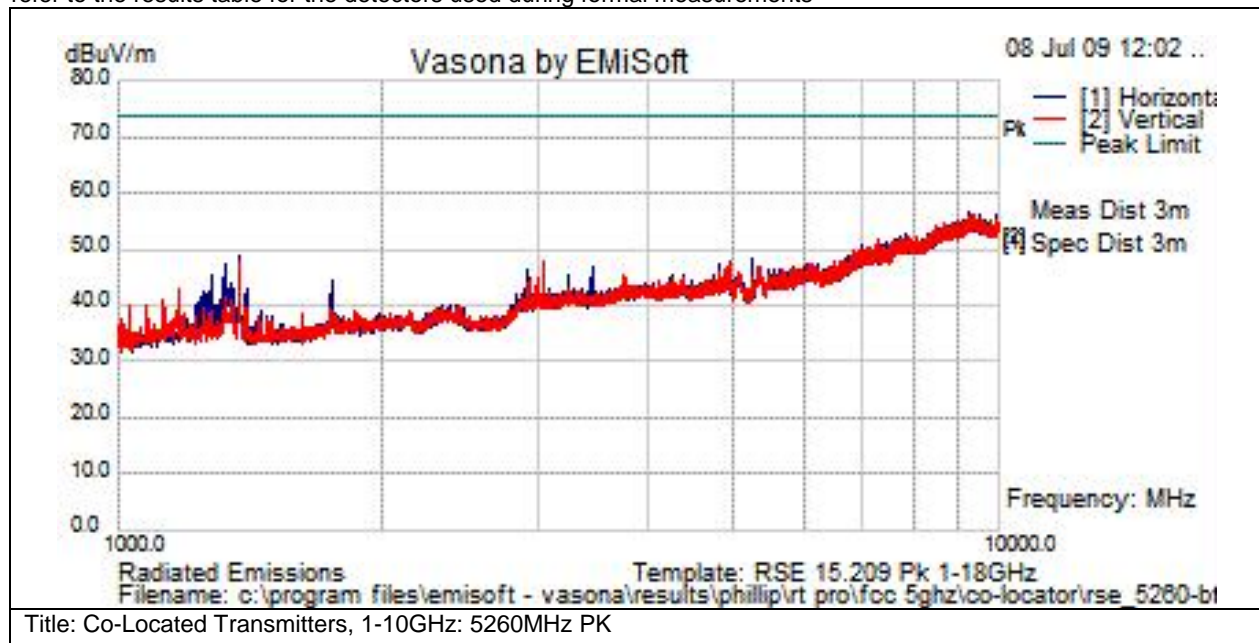
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
9312.227	37	14.6	4.8	56.3	NA	V	125	0	74	-17.7	Pass	
4799.617	44	10	-3.4	50.6	Peak(Scan)	H	100	0	74	-23.4	Pass	
4942.736	42.3	10.2	-3.5	49	Peak(Scan)	V	100	0	74	-25	Pass	
3416.873	44	8.3	-3.6	48.7	Peak(Scan)	H	100	0	74	-25.3	Pass	
1374.909	50.7	5.1	-7.1	48.7	Peak(Scan)	H	100	0	74	-25.3	Pass	



Subtest Number: 36568 - 3		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
9277.137	37.4	14.6	4.7	56.7	Peak(Scan)	NA	H 100	0	74	-17.3	Pass	
1375.063	50.7	5.1	-7.1	48.6	Peak(Scan)	H	H 100	0	74	-25.4	Pass	
5260.01	40.5	10.6	-3	48.1	Peak(Scan)	H	H 100	0	74	-25.9	Pass	



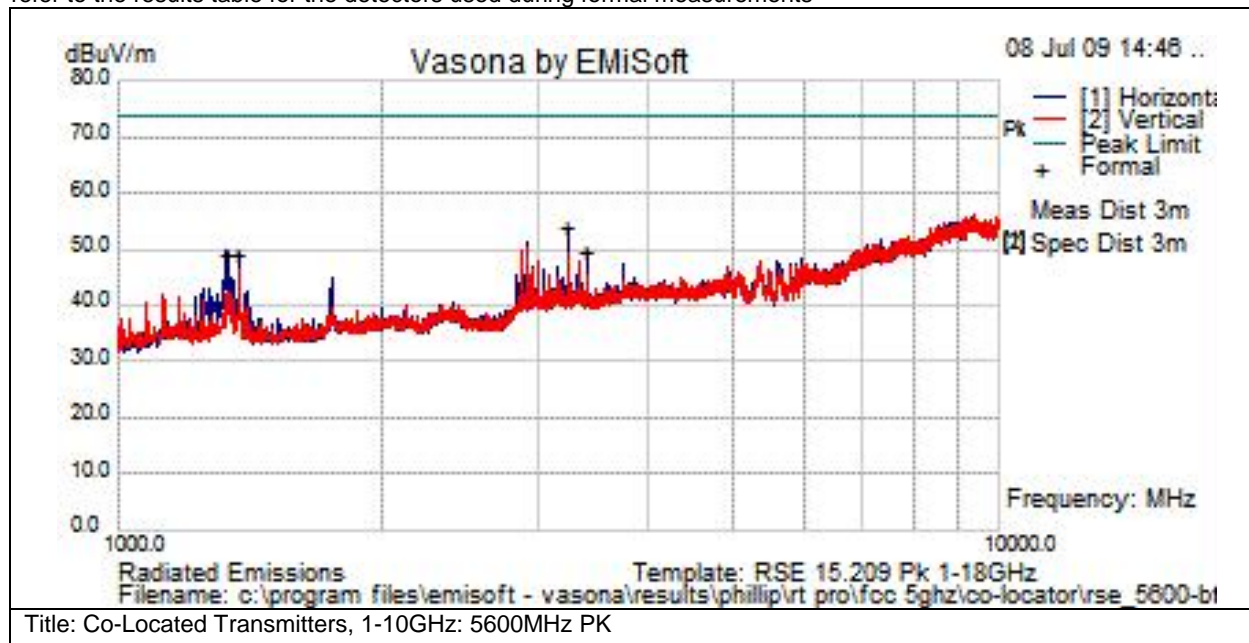
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
3040.875	44.1	7.8	-4.1	47.8	Peak(Scan)	V	100	0	74	-26.2	Pass	



Subtest Number: 36568 - 4		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
9359.95	36.6	14.6	4.8	56	NA	V	125	0	74	-18	Pass	Noise Floor
3247.303	49.2	8.1	-3.5	53.8	Peak(Scan)	H	100	360	74	-20.2	Pass	
3415.771	44.6	8.3	-3.6	49.3	Peak(Scan)	H	100	360	74	-24.7	Pass	

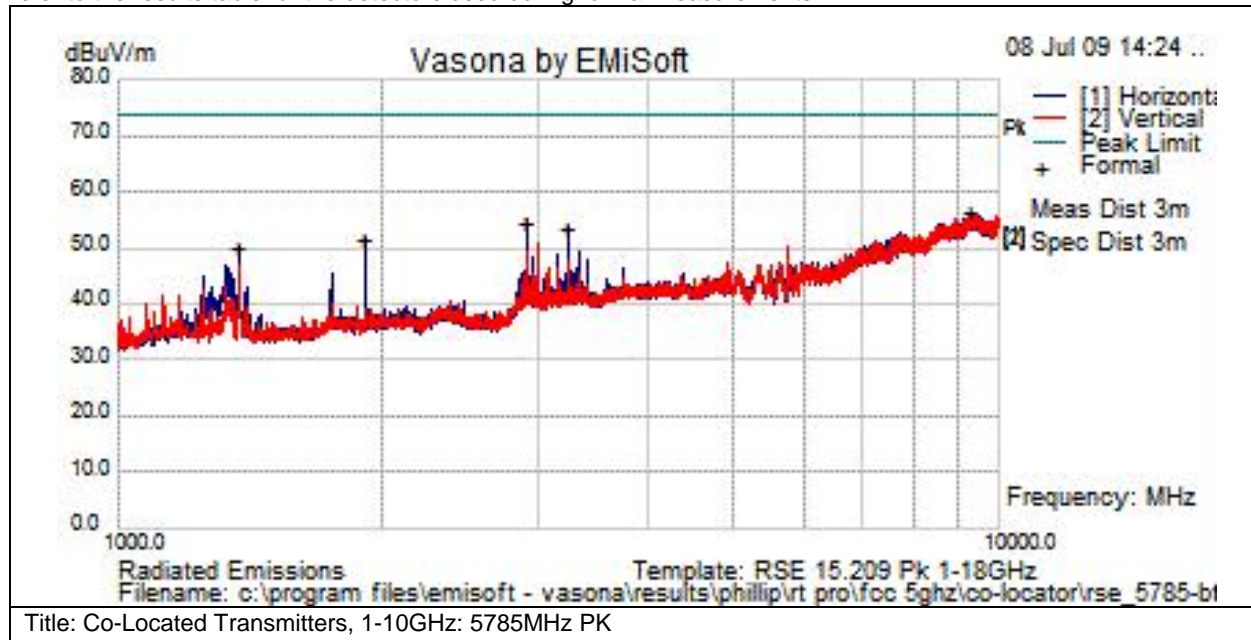


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
1374.603	51.2	5.1	-7.1	49.2	Peak(Scan)	H	100	360	74	-24.8	Pass	
1331.521	51.3	5	-7.2	49.1	Peak(Scan)	H	100	360	74	-24.9	Pass	

Subtest Number: 36568 - 5		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
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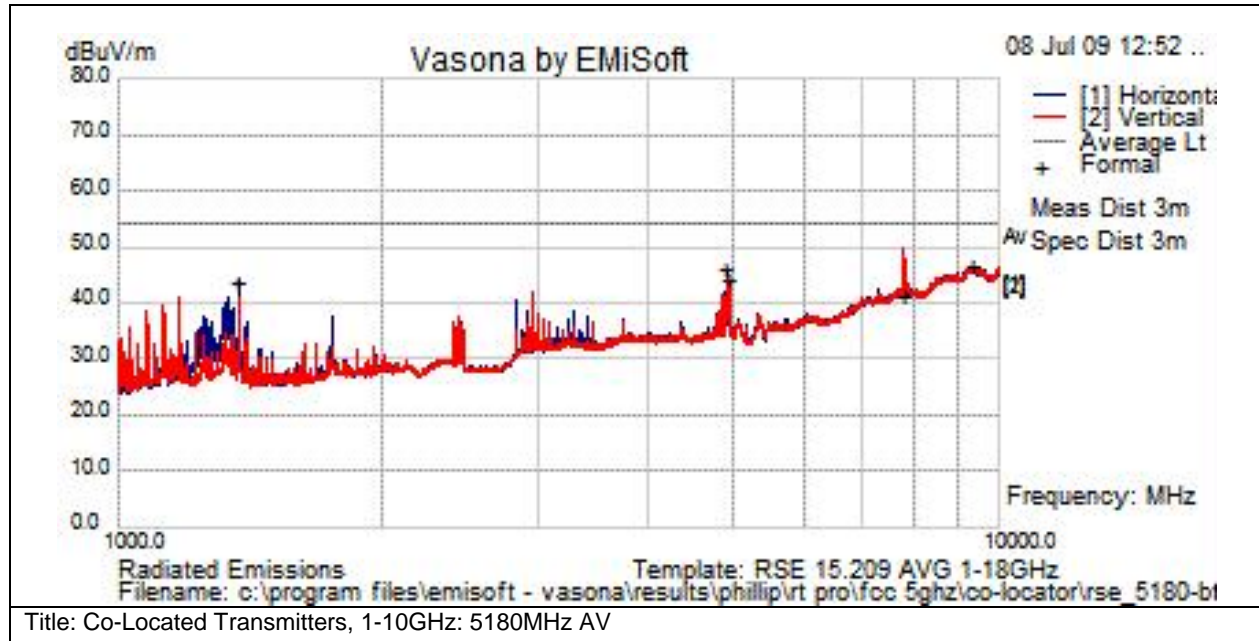


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
9277.137	37	14.6	4.7	56.2	NA	H	100	0	74	-17.8	Pass	Noise Floor
2915.939	51.2	7.6	-4.4	54.4	NA	H	100	0	74	-19.6	Pass	
2915.977	51	7.6	-4.4	54.2	Peak(Scan)	H	100	360	74	-19.8	Pass	
3251.432	48.7	8.1	-3.5	53.4	Peak(Scan)	H	100	360	74	-20.6	Pass	
1909.577	50.7	6	-5.4	51.4	Peak(Scan)	H	100	360	74	-22.6	Pass	
1376.275	52.2	5.1	-7.1	50.2	Peak(Scan)	H	100	360	74	-23.8	Pass	

Subtest Number: 36568 - 6		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Title: Co-Located Transmitters, 1-10GHz: 5180MHz AV

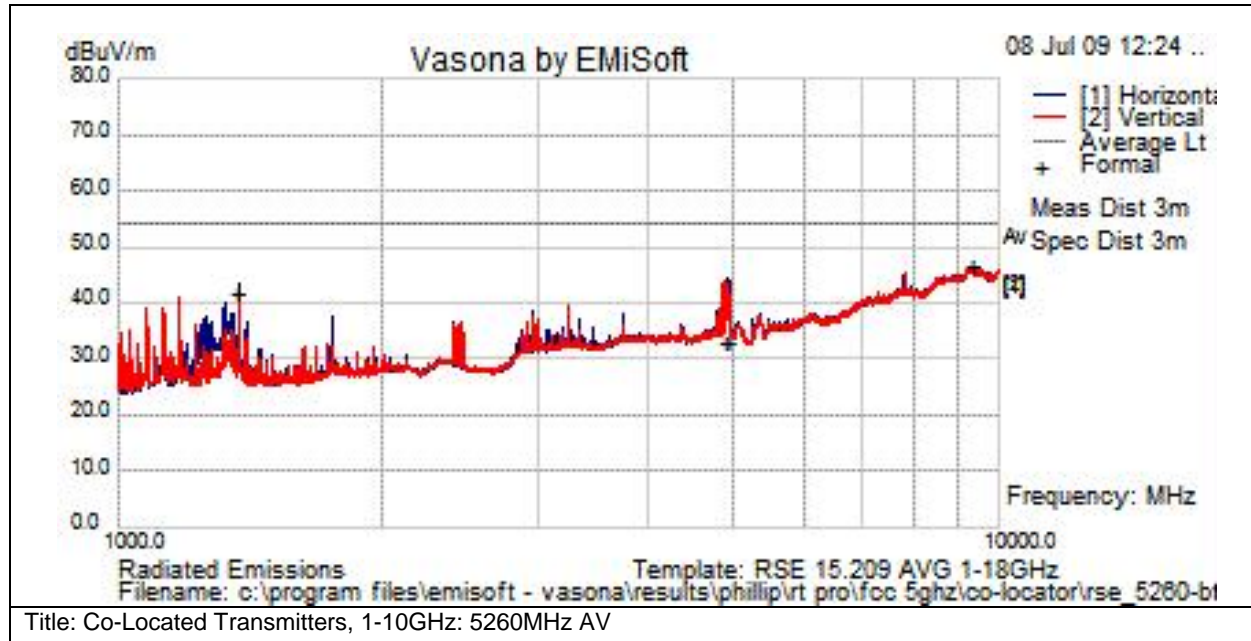
Test Results Table

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	Comments
9350.125	27.1	14.6	4.8	46.5	NA	H	100	0	54	-7.5	Pass	Noise Floor
7811.504	26.1	13.2	2.1	41.4	Av	V	105	235	54	-12.6	Pass	
1374.751	43.4	5.1	-7.1	41.4	Av	H	137	240	54	-12.6	Pass	
4914.272	25	10.2	-3.3	31.9	Av	V	102	270	54	-22.1	Pass	

Subtest Number: 36568 - 7		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



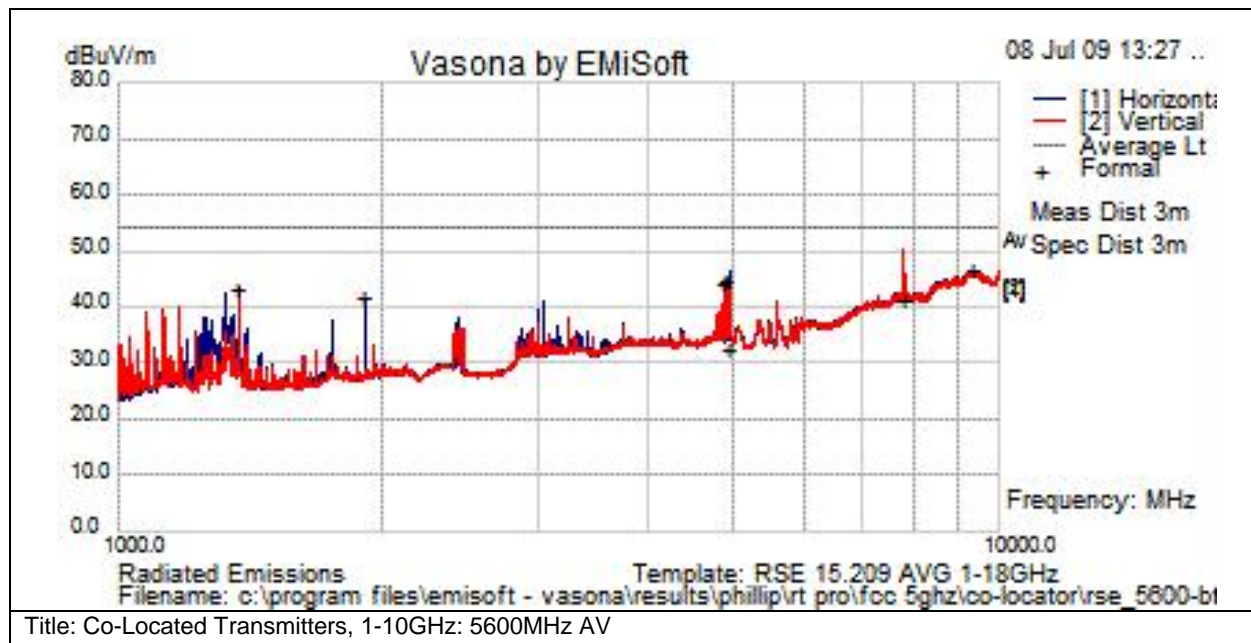
Test Results Table

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	Comments
9375.39	27.1	14.6	4.8	46.5	NA	H	100	0	54	-7.5	Pass	Noise Floor
1374.869	43.5	5.1	-7.1	41.5	Av	H	136	241	54	-12.5	Pass	
4931.998	26.2	10.2	-3.4	33	Av	H	103	198	54	-21	Pass	
4945.751	25.9	10.2	-3.5	32.6	Av	H	108	198	54	-21.4	Pass	

Subtest Number: 36568 - 8		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



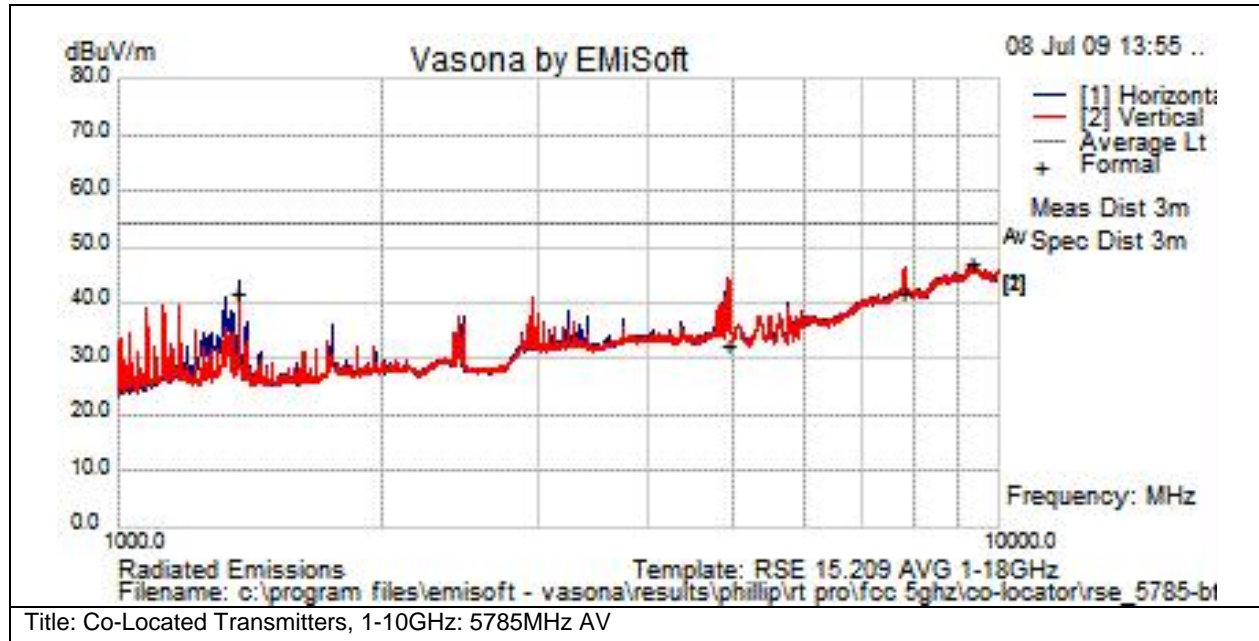
Test Results Table

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	Comments
9376.794	27	14.6	4.8	46.5	NA	V	100	0	54	-7.5	Pass	Noise Floor
1374.951	43.3	5.1	-7.1	41.3	Av	H	139	242	54	-12.7	Pass	
7812.764	25.9	13.2	2.1	41.2	Av	V	102	262	54	-12.8	Pass	
4945.793	25.8	10.2	-3.5	32.5	Av	H	104	240	54	-21.5	Pass	

Subtest Number: 36568 - 9		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	10000.0		
Lowest Frequency	1000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



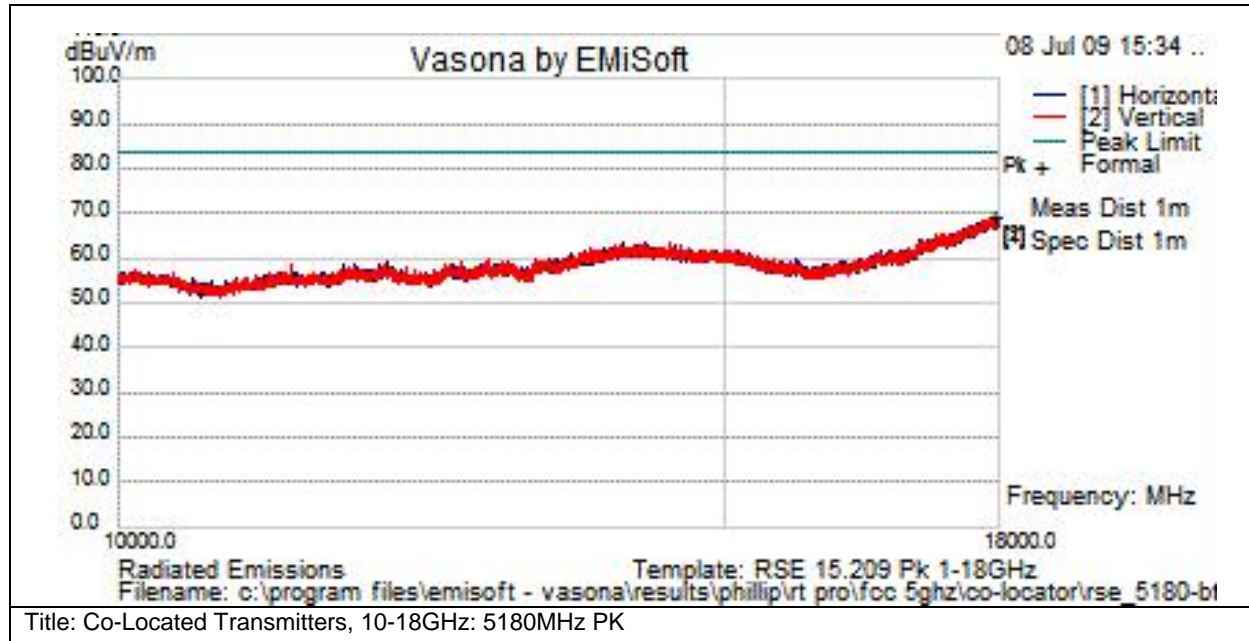
Test Results Table

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	Comments
9382.408	27.3	14.7	4.9	46.9	NA	V	125	0	54	-7.1	Pass	
7831.908	26.4	13.2	2.2	41.8	Av	V	102	263	54	-12.2	Pass	
1374.958	43.6	5.1	-7.1	41.6	Av	H	134	242	54	-12.4	Pass	
4939.996	25.4	10.2	-3.5	32.2	Av	H	102	253	54	-21.8	Pass	

Subtest Number: 36568 - 10		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



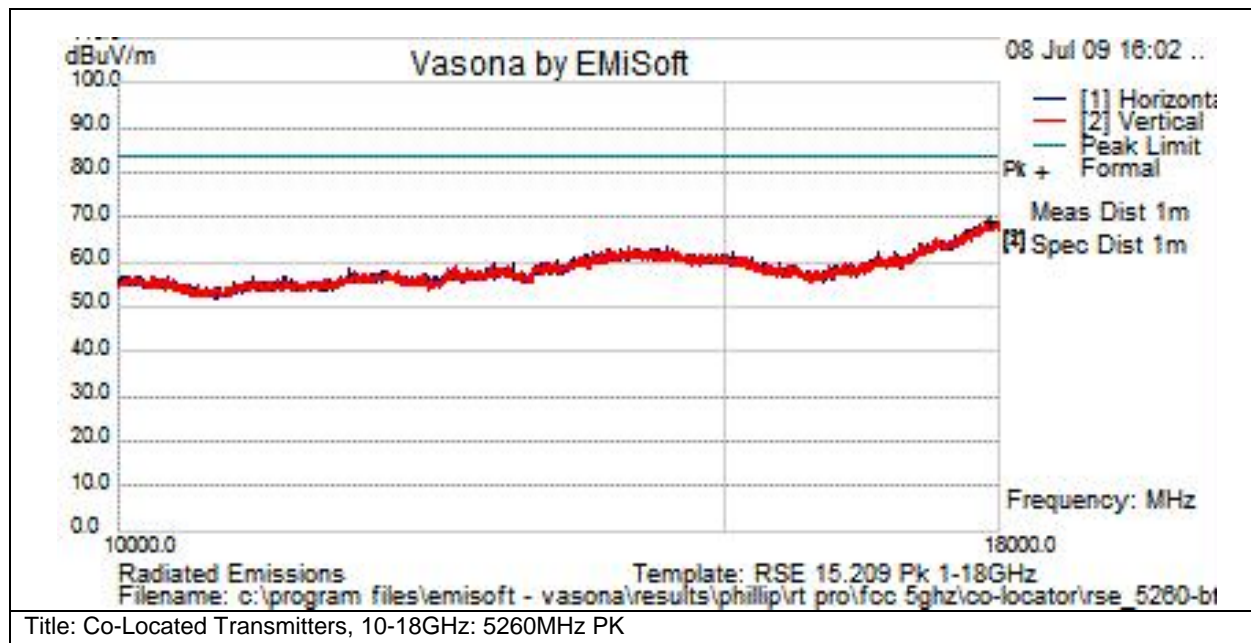
Test Results Table

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	Comments
17981.285	35.9	21	12.3	69.2	NA	H	125	0	83.5	-14.3	Pass	Noise Floor

Subtest Number: 36568 - 11		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



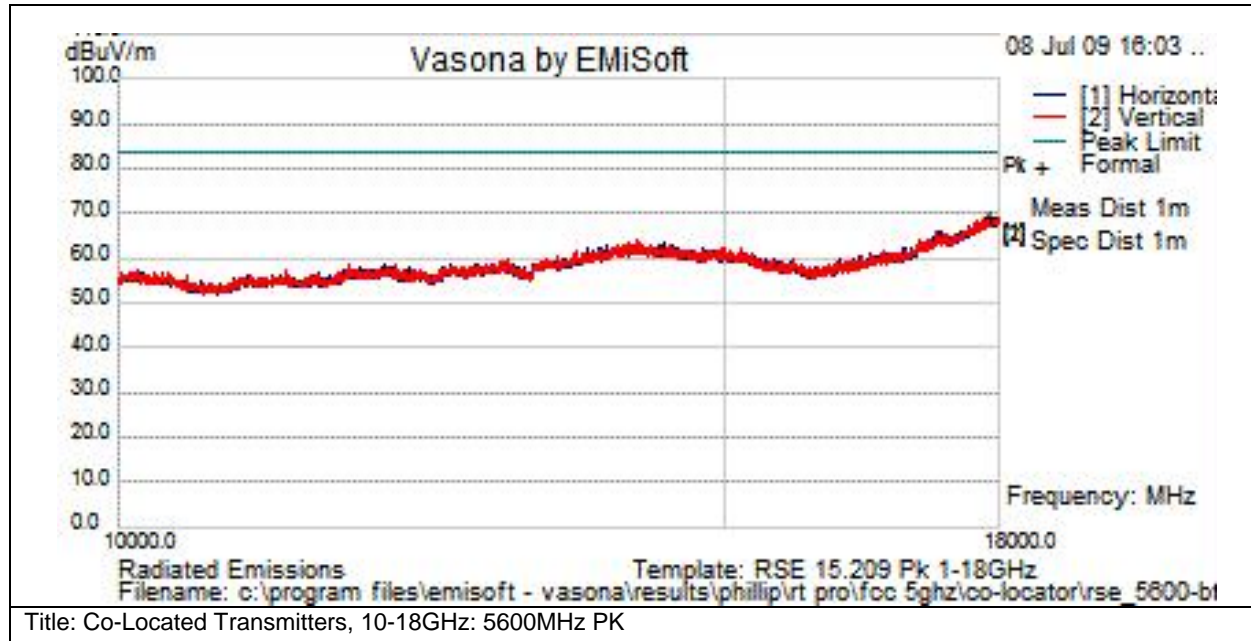
Test Results Table

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	Comments
17887.711	36.1	21.1	12.2	69.3	NA	V	125	0	83.5	-14.2	Pass	Noise Floor

Subtest Number: 36568 - 12		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



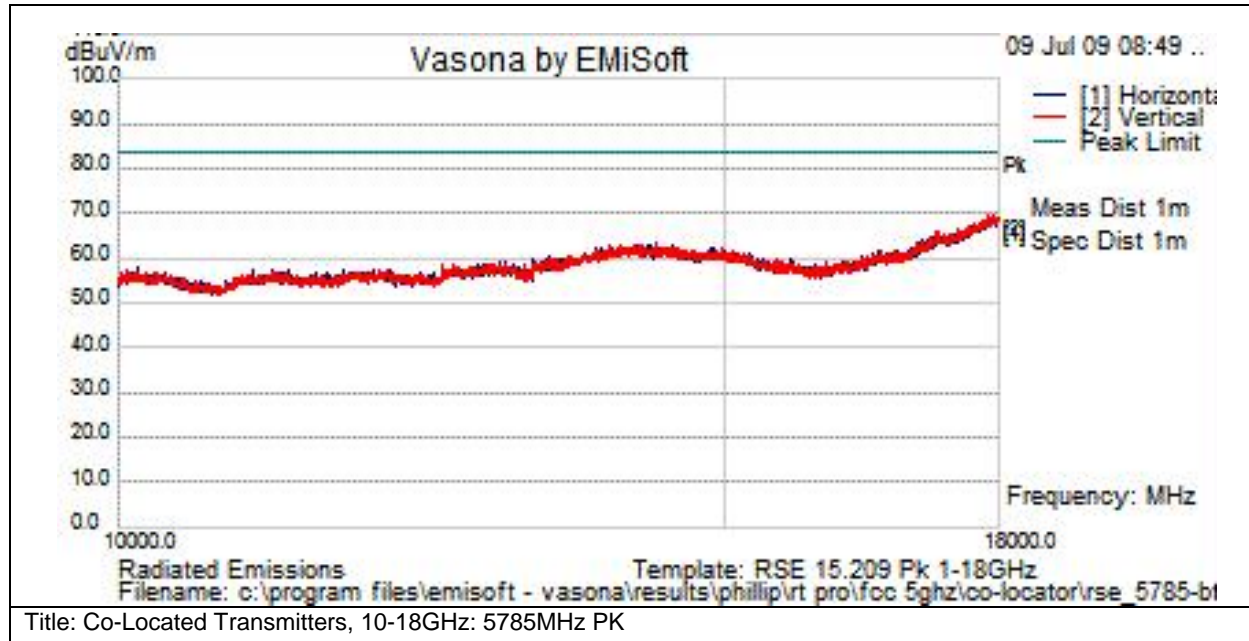
Test Results Table

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	Comments
17887.711	36.1	21.1	12.2	69.3	NA	V	125	0	83.5	-14.2	Pass	Noise Floor

Subtest Number: 36568 - 13		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



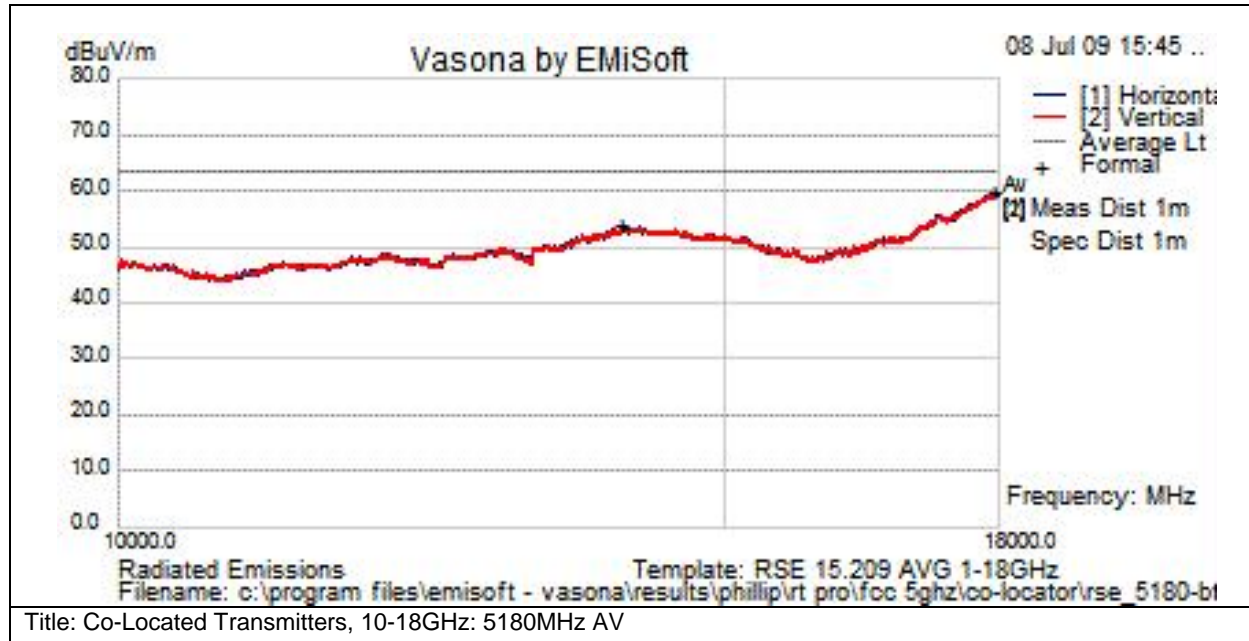
Test Results Table

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	Comments
17885.215	36.2	21	12.2	69.4	NA	V	125	0	83.5	-14	Pass	Noise Floor

Subtest Number: 36568 - 14		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



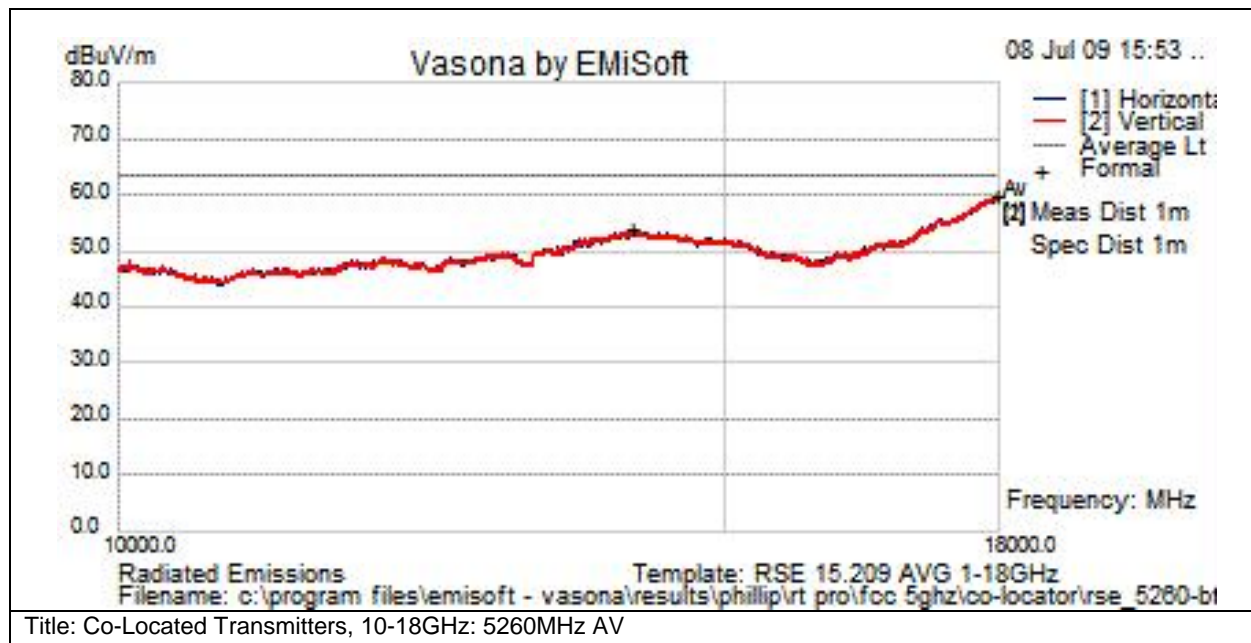
Test Results Table

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	Comments
17955.084	26.2	21.1	12.4	59.6	NA	V	100	0	63.5	-3.9	Pass	Noise Floor
14017.467	28	18.2	7.6	53.8	NA	V	100	0	63.5	-9.7	Pass	Noise Floor

Subtest Number: 36568 - 15		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



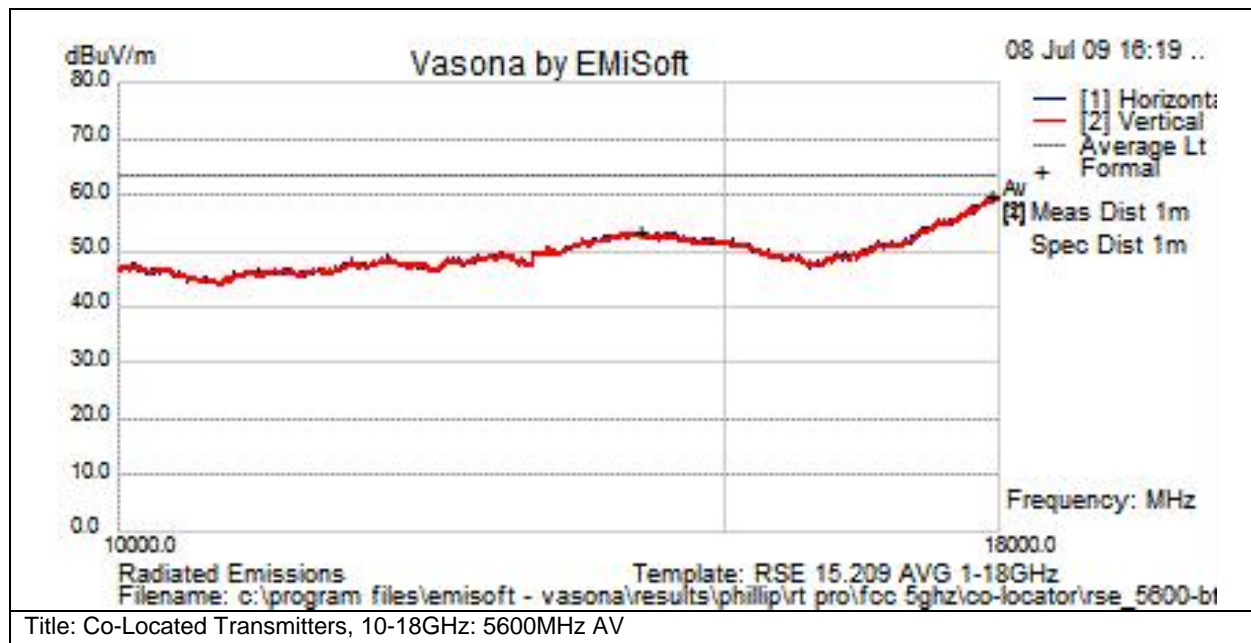
Test Results Table

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	Comments
17995.009	26.3	21.1	12.3	59.7	NA	H	125	0	63.5	-3.8	Pass	Noise Floor
14117.28	27.8	18.3	7.7	53.8	NA	H	125	0	63.5	-9.8	Pass	Noise Floor

Subtest Number: 36568 - 16		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



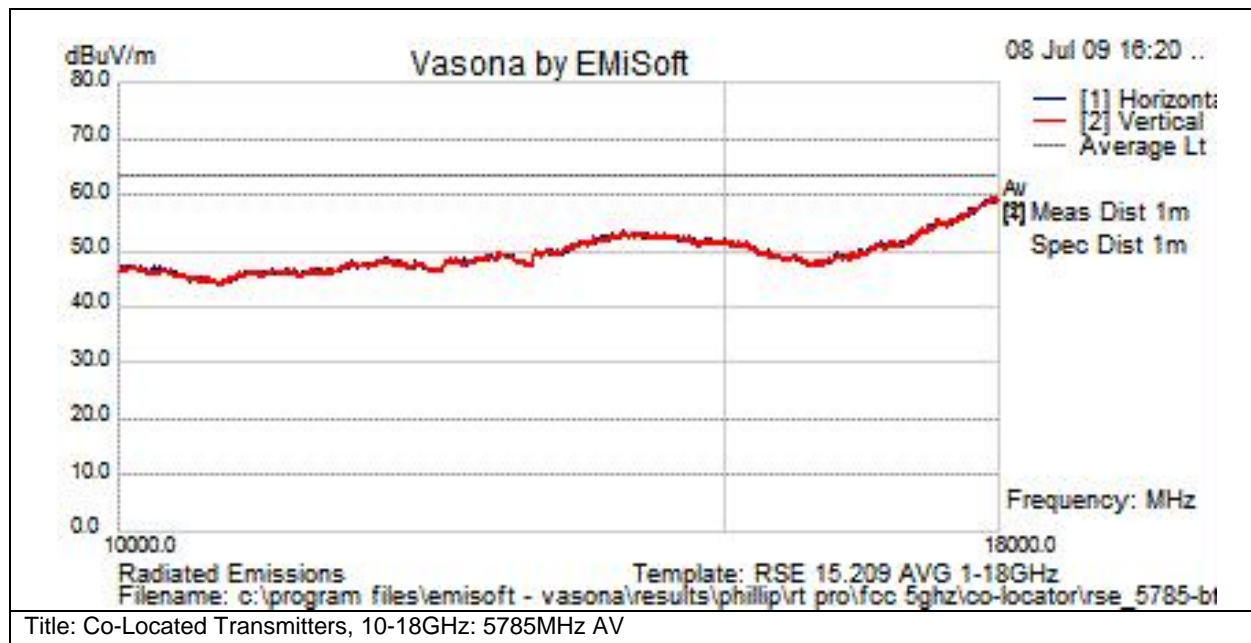
Test Results Table

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	Comments
17942.608	26.4	21.1	12.3	59.8	NA	H	100	0	63.5	-3.7	Pass	Noise Floor
14199.626	27.8	18.4	7.3	53.4	NA	V	100	0	63.5	-10.1	Pass	Noise Floor

Subtest Number: 36568 - 17		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	18000.0		
Lowest Frequency	10000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



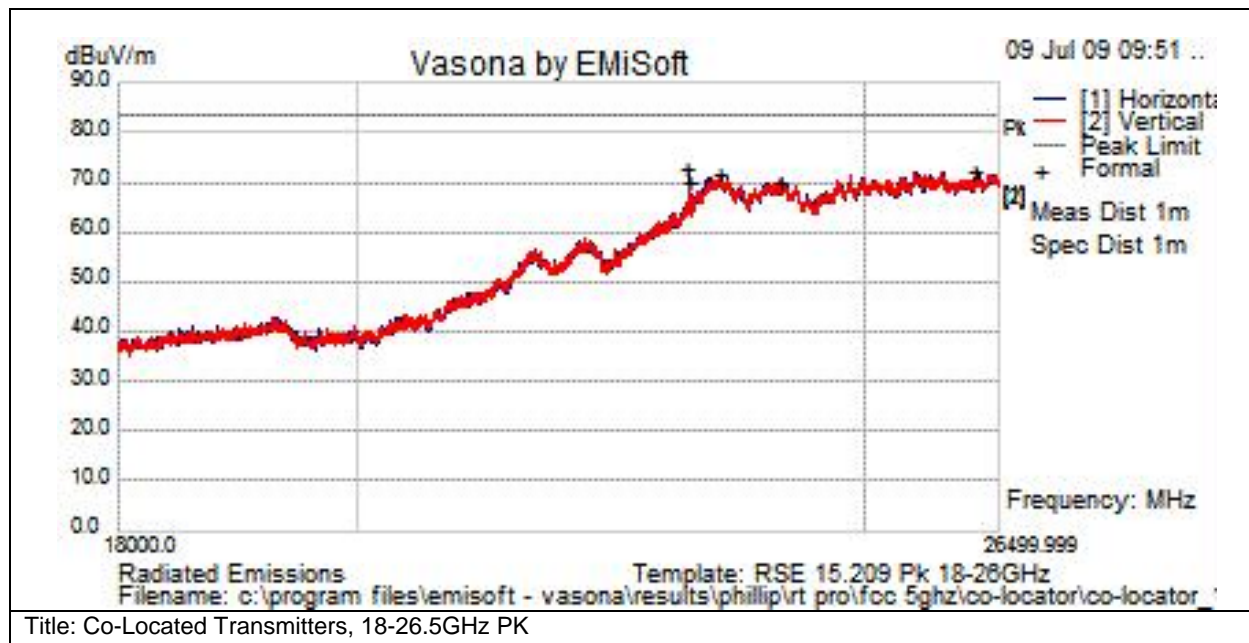
Test Results Table

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	Comments
17990.019	26.4	21.1	12.3	59.7	NA	V	100	0	63.5	-3.8	Pass	Noise Floor
14024.953	27.6	18.2	7.6	53.5	NA	H	100	0	63.5	-10	Pass	Noise Floor

Subtest Number: 36568 - 18		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	26499.999		
Lowest Frequency	18000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

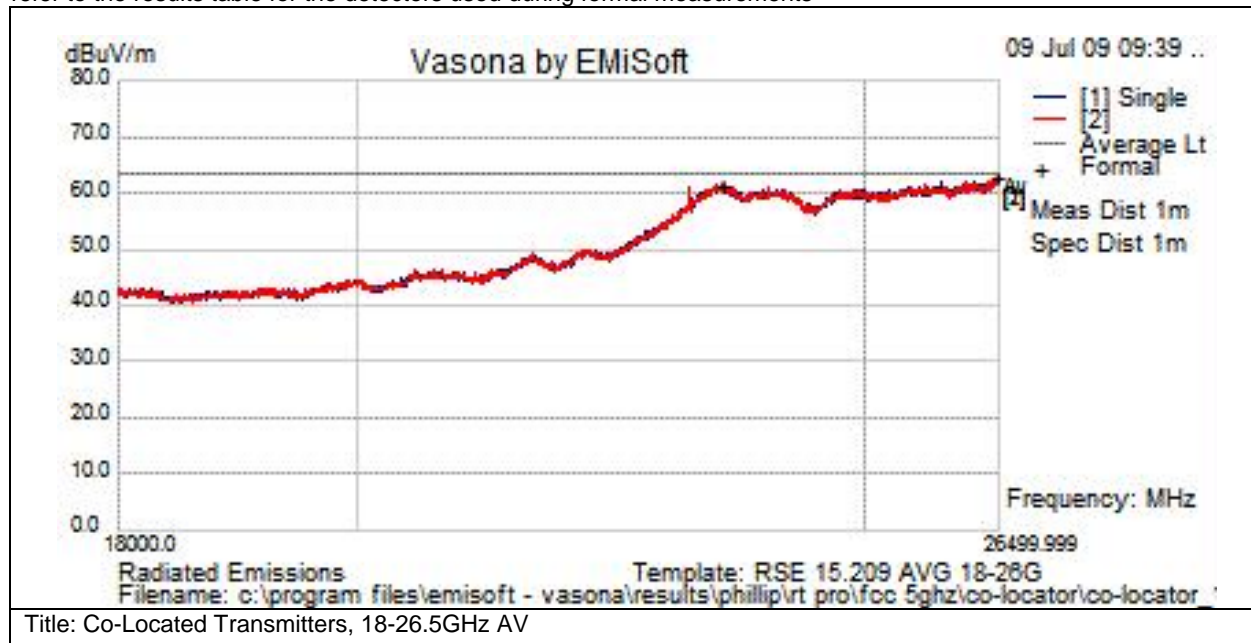
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail	Comments
23140.829	59.5	0	13.1	72.6	NA	H	100	0	83.5	-10.9	Pass	Noise Floor
26258.733	58.1	0	14.2	72.3	NA	V	100	0	83.5	-11.2	Pass	Noise Floor
23469.588	58.6	0	13	71.5	NA	H	100	0	83.5	-12	Pass	Noise Floor
24097.941	57.1	0	13.1	70.2	NA	V	100	0	83.5	-13.2	Pass	Noise Floor
23146.132	57	0	13.2	70.1	NA	H	100	0	83.5	-13.4	Pass	Noise Floor

Subtest Number: 36568 - 19		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	26499.999		
Lowest Frequency	18000.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results



Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



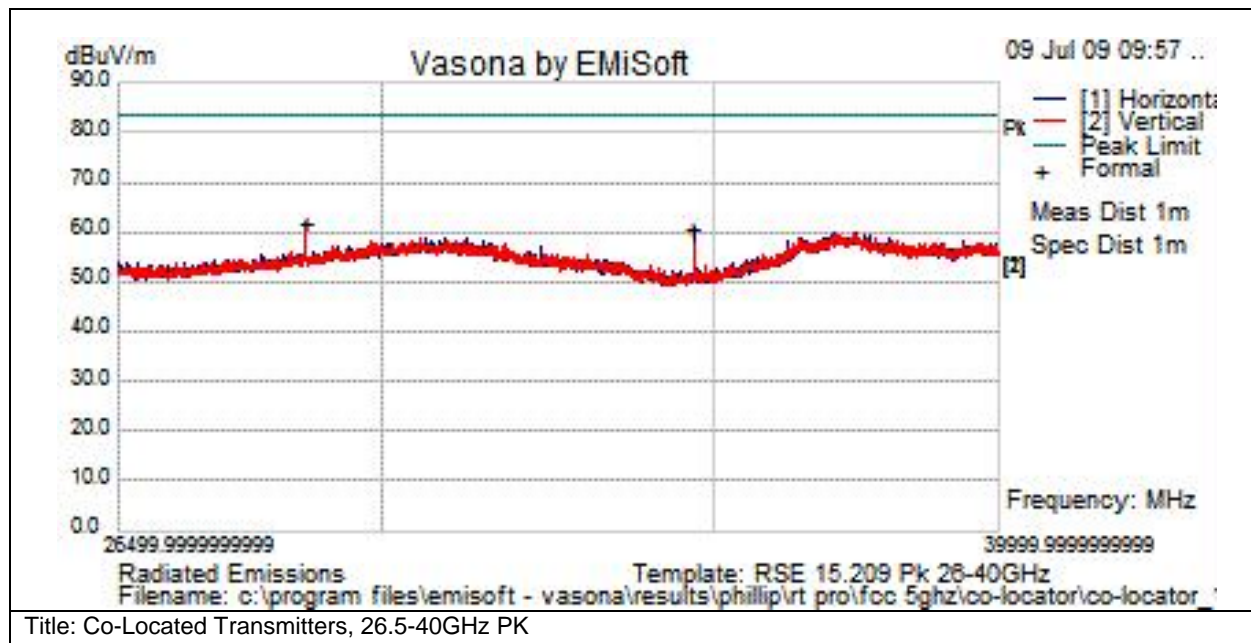
Test Results Table

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	Comments
26494.583	48.2	0	14.6	62.8	Peak(Scan)	H	100	181	63.5	-0.7	Pass	Noise Floor
23503.026	48.3	0	13.1	61.4	Peak(Scan)	H	100	181	63.5	-2.1	Pass	Noise Floor

Subtest Number: 36568 - 20		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	40000.0		
Lowest Frequency	26500.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



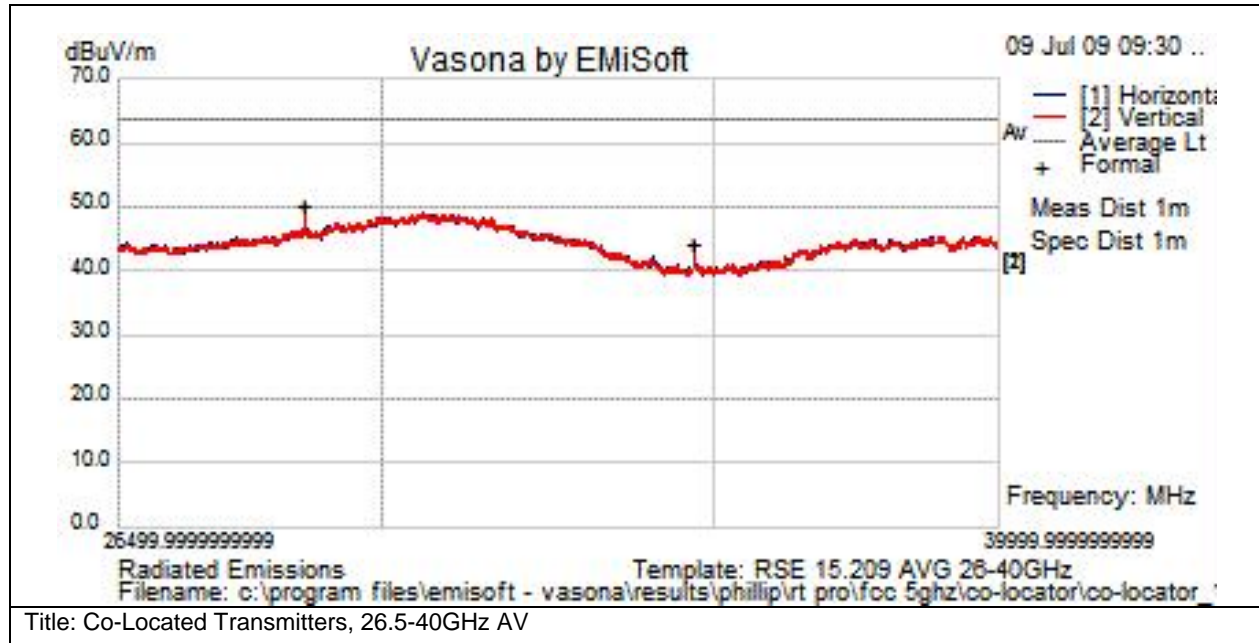
Test Results Table

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	Comments
34710.945	64.5	0	-3.6	60.8	Peak(Scan)	H	100	361	83.5	-22.6	Pass	
28938.291	68.5	0	-7	61.6	Peak(Scan)	H	100	361	83.5	-22	Pass	

Subtest Number: 36568 - 21		Subtest Date: 09-Jul-2009	
Engineer	Dean Yarza		
Lab Information	Building N, 5m Anechoic		
Subtest Results			
Subtest Title	Co-Located Transmitters		
Subtest Result	Pass		
Highest Frequency	40000.0		
Lowest Frequency	26500.0		
Comments on the above Test Results	No further comments		
Environmental Conditions:			
Temperature: within range of 54 to 95 F:	Yes		
Humidity: between 10 and 75%:	Yes		

Graphical Test Results

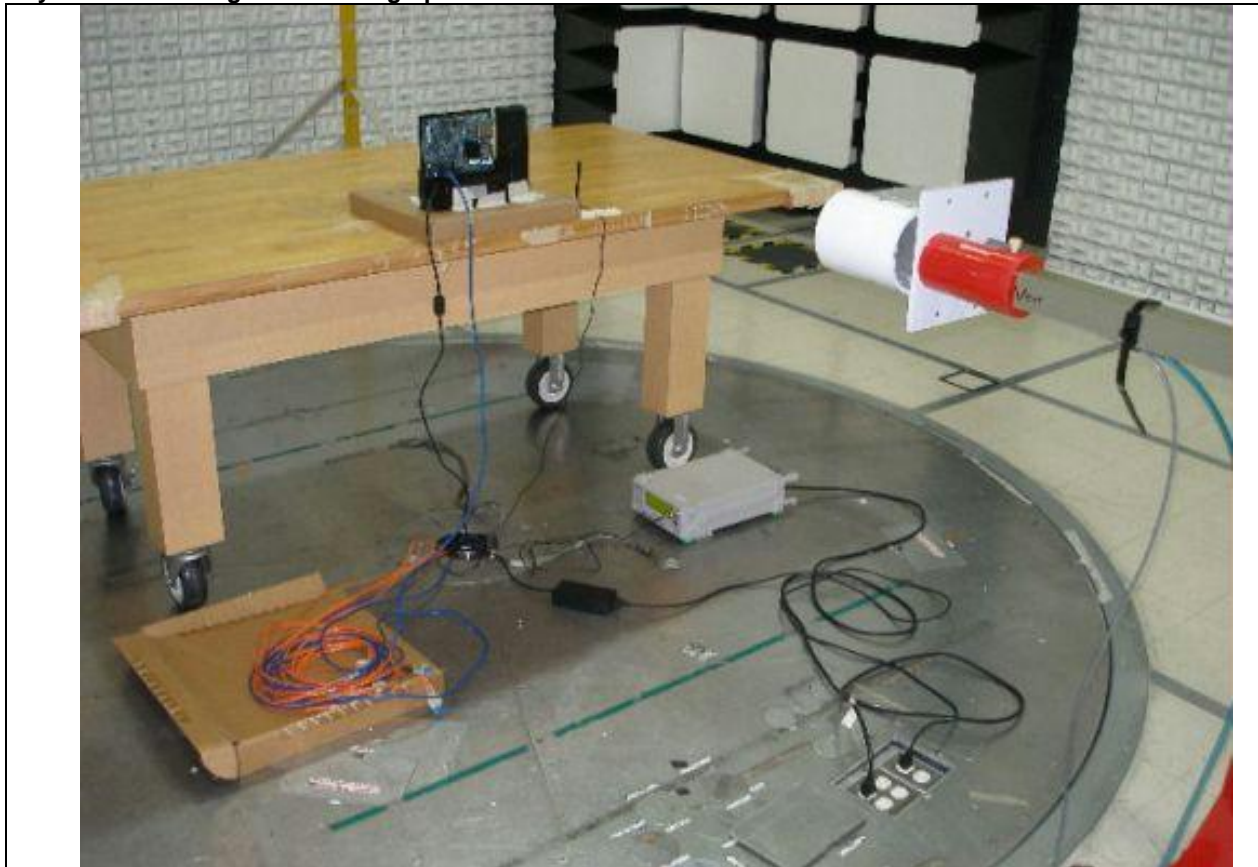
Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results Table

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	Comments
28925.329	57.1	0	-6.9	50.1	Peak(Scan)	V	100	0	63.5	-13.4	Pass	
34707.042	48	0	-3.6	44.4	Peak(Scan)	H	100	0	63.5	-19.1	Pass	

Physical Test arrangement Photograph:



Title: Co-Located Transmitters, 18-40GHz

Comments on the above Photograph:

No further comments



Title: Co-Located Transmitters, 1-10GHz at 1 meter

Comments on the above Photograph:

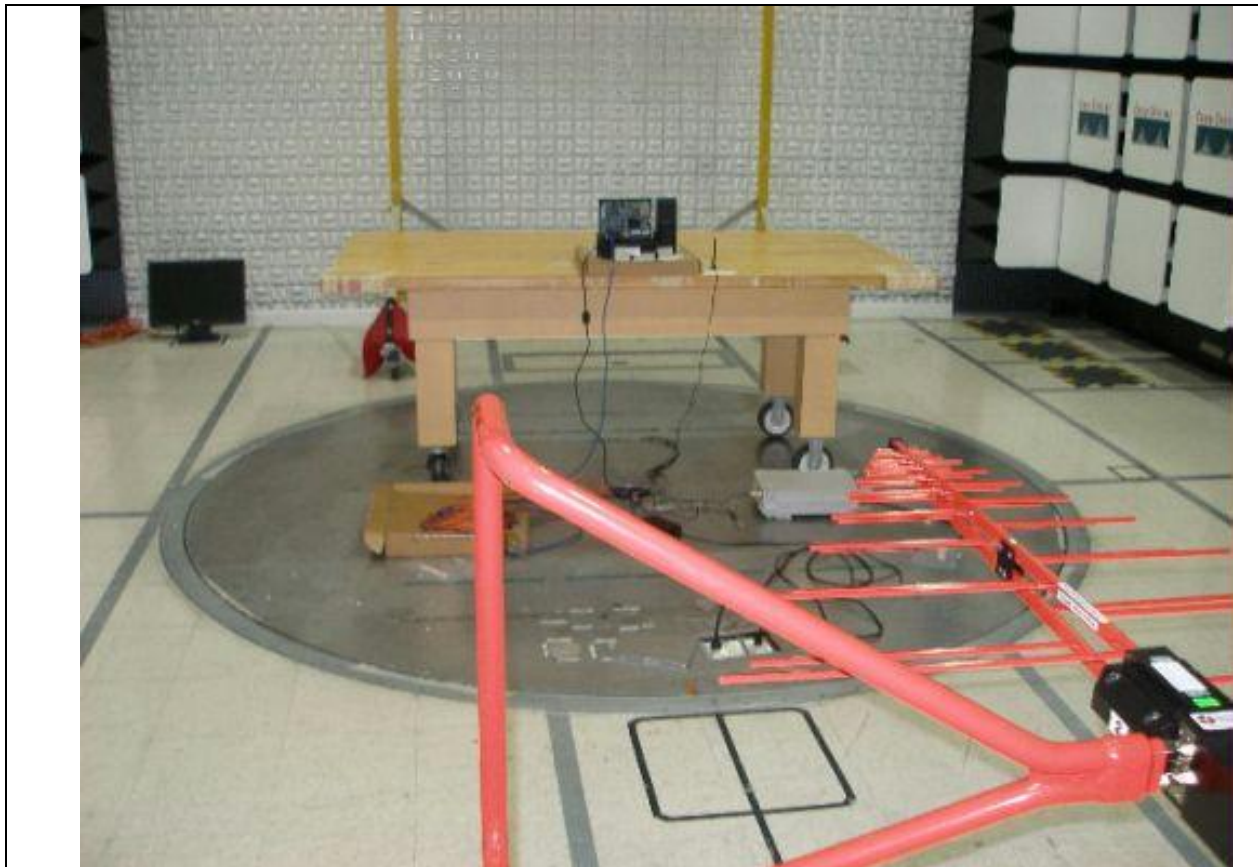
No further comments



Title: Co-Located Transmitters, 1-10GHz at 3 meters

Comments on the above Photograph:

No further comments



Title: Co-Located Transmitters, 30-1GHz

Comments on the above Photograph:

No further comments



Appendix B: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

Abbreviation	Description	Abbreviation	Description
EMC	Electro Magnetic Compatibility	°F	Degrees Fahrenheit
EMI	Electro Magnetic Interference	°C	Degrees Celsius
EUT	Equipment Under Test	Temp	Temperature
ITE	Information Technology Equipment	S/N	Serial Number
TAP	Test Assessment Schedule	Qty	Quantity
ESD	Electro Static Discharge	emf	Electromotive force
EFT	Electric Fast Transient	RMS	Root mean square
EDCS	Engineering Document Control System	Qp	Quasi Peak
Config	Configuration	Av	Average
CIS#	Cisco Number (unique identification number for Cisco test equipment)	Pk	Peak
Cal	Calibration	kHz	Kilohertz (1x10 ³)
EN	European Norm	MHz	MegaHertz (1x10 ⁶)
IEC	International Electro technical Commission	GHz	Gigahertz (1x10 ⁹)
CISPR	International Special Committee on Radio Interference	H	Horizontal
CDN	Coupling/Decoupling Network	V	Vertical
LISN	Line Impedance Stabilization Network	dB	decibel
PE	Protective Earth	V	Volt
GND	Ground	kV	Kilovolt (1x10 ³)
L1	Line 1	µV	Microvolt (1x10 ⁻⁶)
L2	Line2	A	Amp
L3	Line 3	µA	Micro Amp (1x10 ⁻⁶)
DC	Direct Current	mS	Milli Second (1x10 ⁻³)
RAW	Uncorrected measurement value, as indicated by the measuring device	µS	Micro Second (1x10 ⁻⁶)
RF	Radio Frequency	µS	Micro Second (1x10 ⁻⁶)
SLCE	Signal Line Conducted Emissions	m	Meter
Meas dist	Measurement distance	Spec dist	Specification distance
N/A or NA	Not Applicable	SL	Signal Line (or Telecom Line)
P	Power Line	L	Live Line
N	Neutral Line	R	Return
S	Supply	AC	Alternating Current

Appendix D: Test Procedures

Measurements were made in accordance with

- FCC docket #: DA-02-2138A1
- KDB Publication No. 558074
- Measurement method of spurious emission tolerance to the International Telecommunication Union (ITU) Recommendation SM329.
- ANSI C63.4
- ANSI PC63.10/D8

Test procedures are summarized below

6dB Bandwidth	EDCS # - 422115
26dB Bandwidth	EDCS # - 422115
Average Output Power	EDCS # - 422117
Co-Located Transmitter	EDCS # - 422118
Conducted Spurious Test	EDCS # - 422119
Peak Transmit Power Measurement	EDCS # - 422123
Power Spectral Density	EDCS # - 422113
Peak Excursion Test	EDCS # - 422121
Radiated Band Edge	EDCS # - 422124
Radiated Spurious Test	EDCS # - 422125