

Radiated emissions

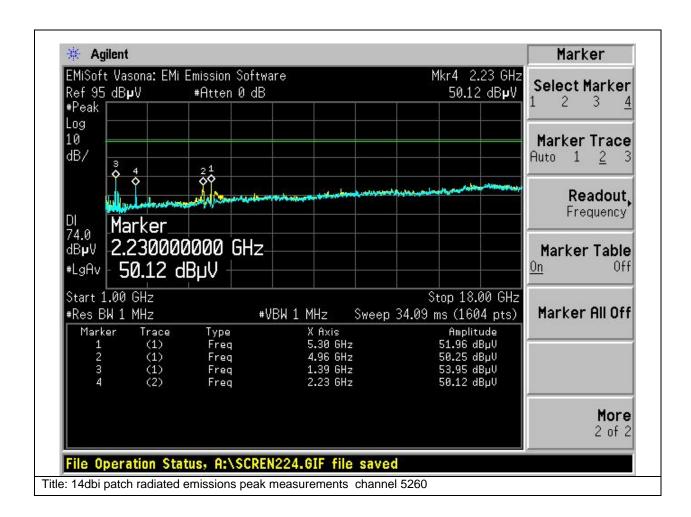
Test Number:	Test Number: 30416 Spec ID: 966							
Basic Standard	Applied to	Applied to Class		Test Details / Comments				
Radiated Spurious Emissions	Enclosure	N/A	30MHz - 40GHz	CFR47 Part 15.109, CFR47 Part 15.407, RSS-210, LP0002 HKTA1039				
Operating Mode	Mode: 1, Contin	uous Transmit	•					
Power Input	5, DC (+/-20%)							
Overall Result	Pass							
Comments	No further comm	No further comments						
Deviation	There were no de	eviations from t	he specification					

System Number	Description	Samples	System under test	Support equipment
2	Support equipment	S02, S03 and S04		
3	Radiated testing for the 7.5 Omni antenna	S01 and S05	✓	

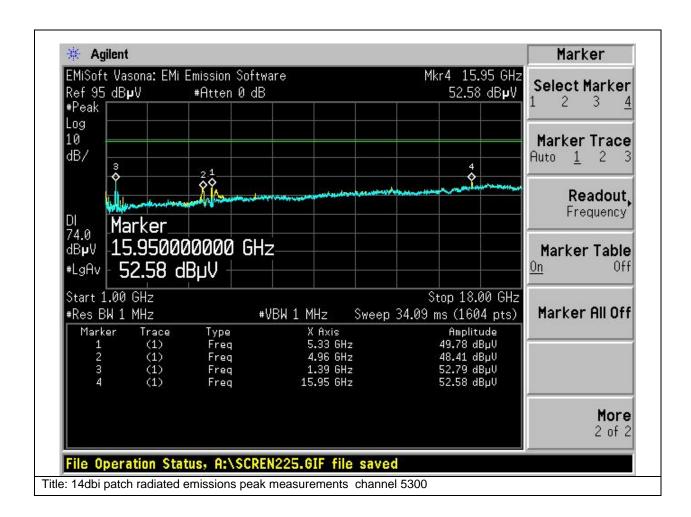
Subtest Number: 30416 - 1		Subtest Date: 15-Feb-2008
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	N/A	
Subtest Result	Pass	
Highest Frequency	N/A	
Lowest Frequency	N/A	
Comments on the above Test Results	No further comments	

Graphical Test Results

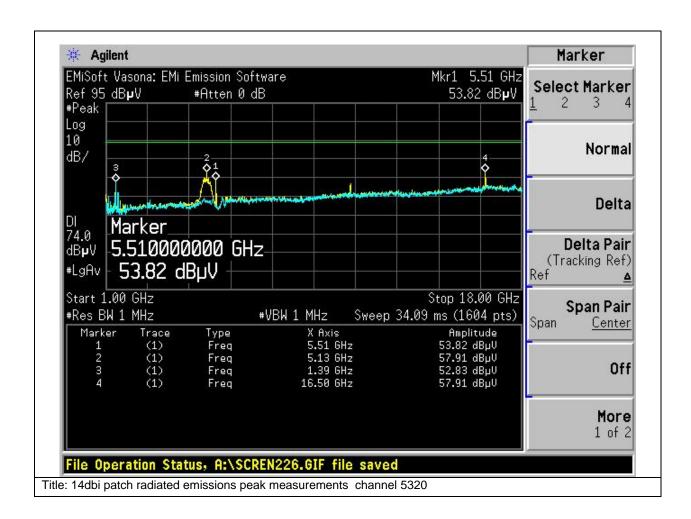




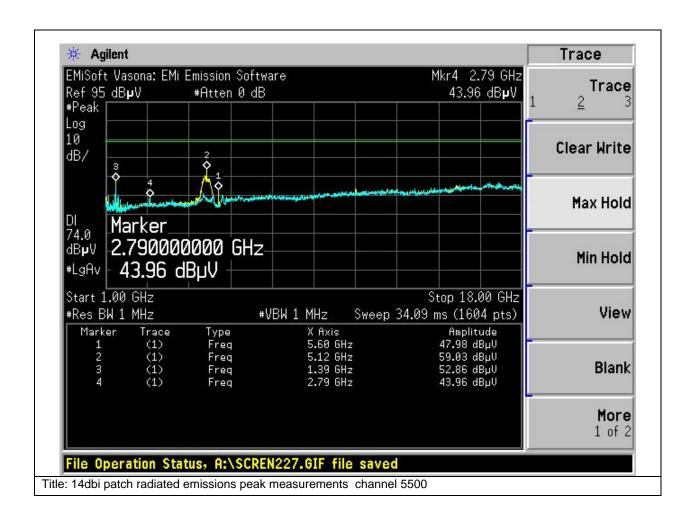




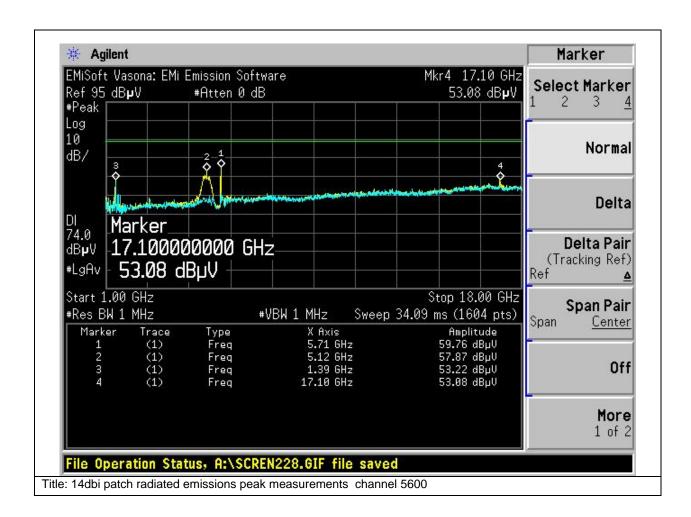




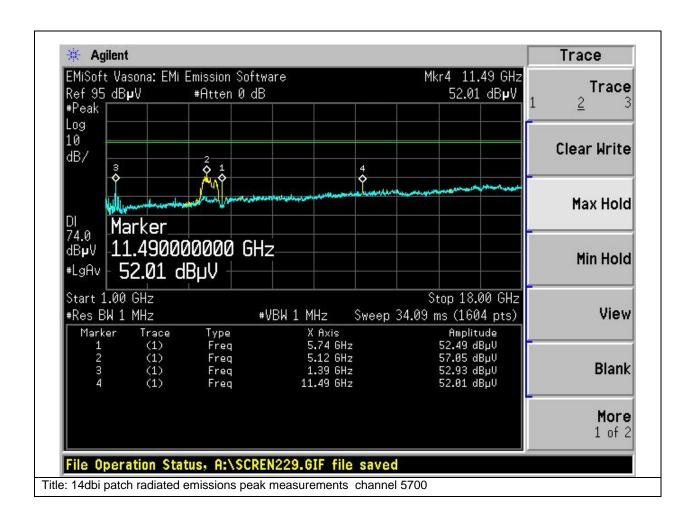






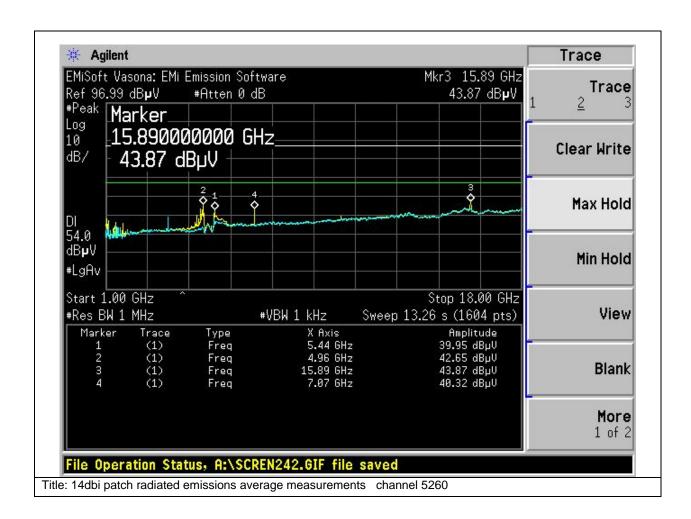




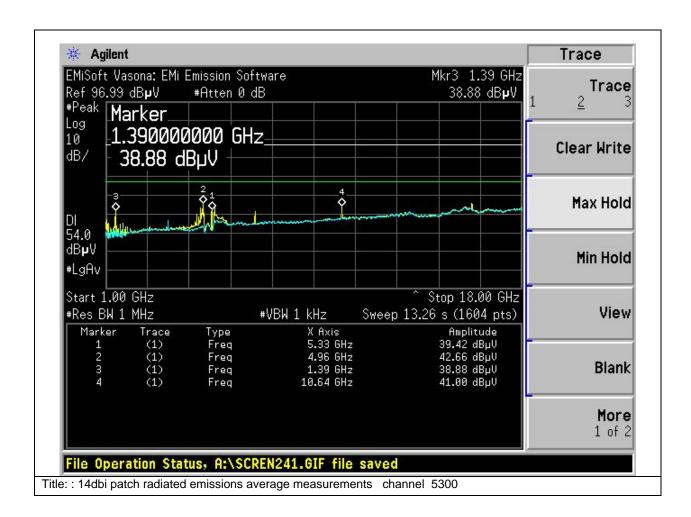


Subtest Number: 3041	6 - 2	Subtest Date: 15-Feb-2008		
Engineer	Donald Foster			
Lab Information	Building P, 10m Anechoic			
Subtest Results				
Subtest Title	N/A			
Subtest Result	Pass			
Highest Frequency	N/A			
Lowest Frequency	N/A			
Comments on the above Test Results	No further comments			

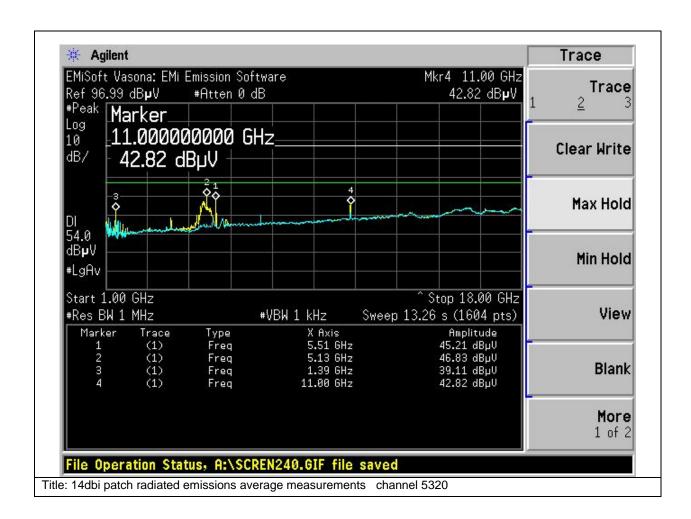




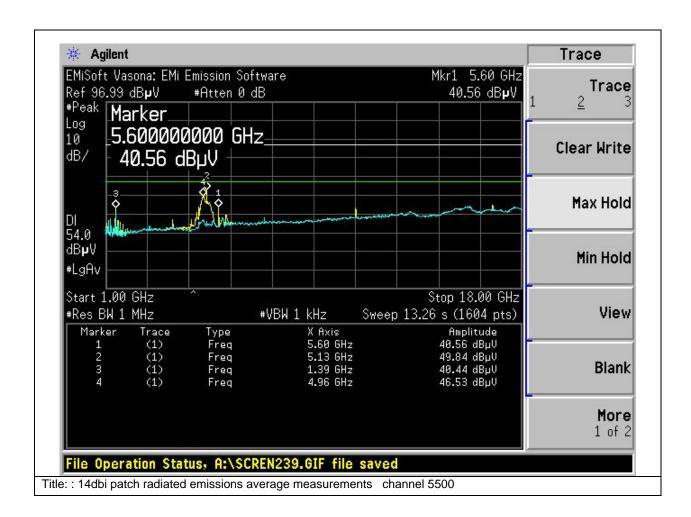




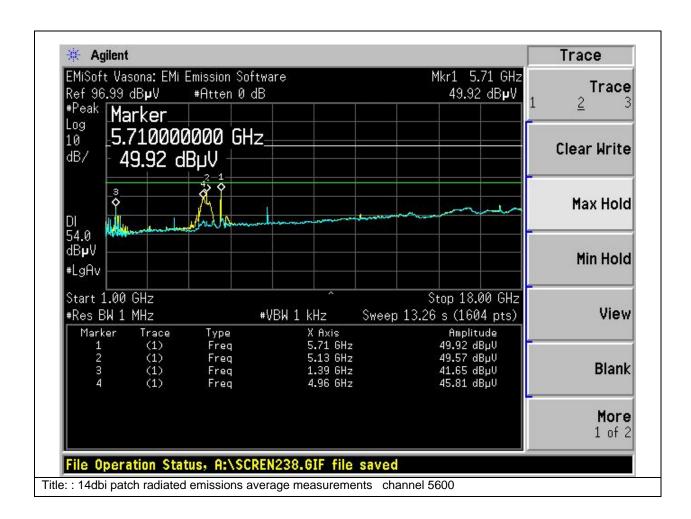




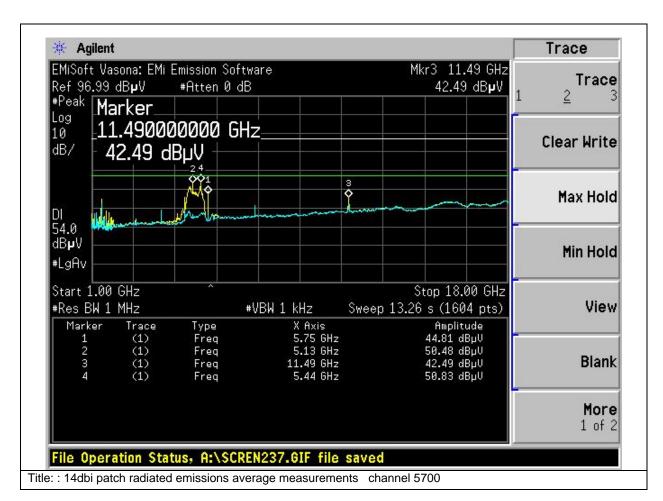






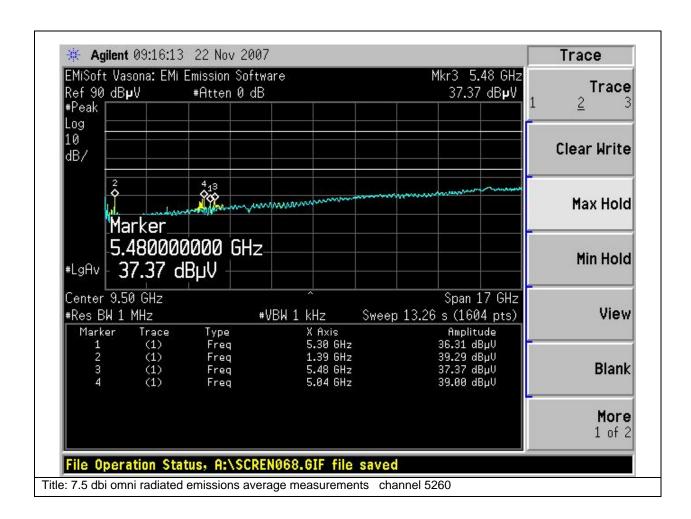




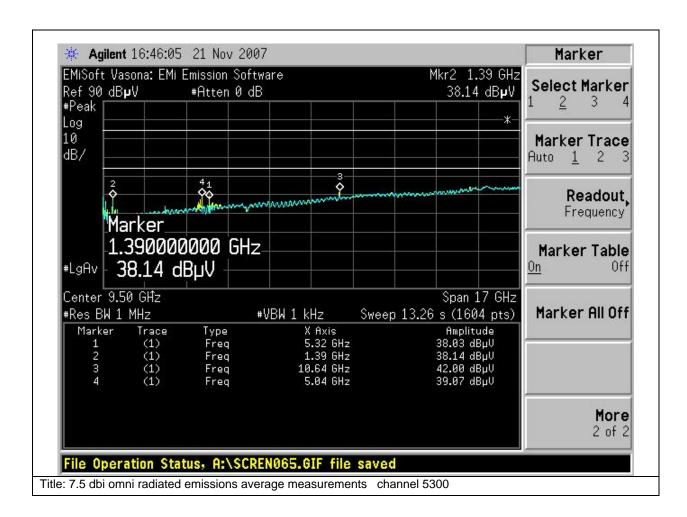


Subtest Number: 30416 - 3		Subtest Date: 15-Feb-2008
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	N/A	
Subtest Result	Pass	
Highest Frequency	N/A	
Lowest Frequency	N/A	
Comments on the above Test Results	No further comments	

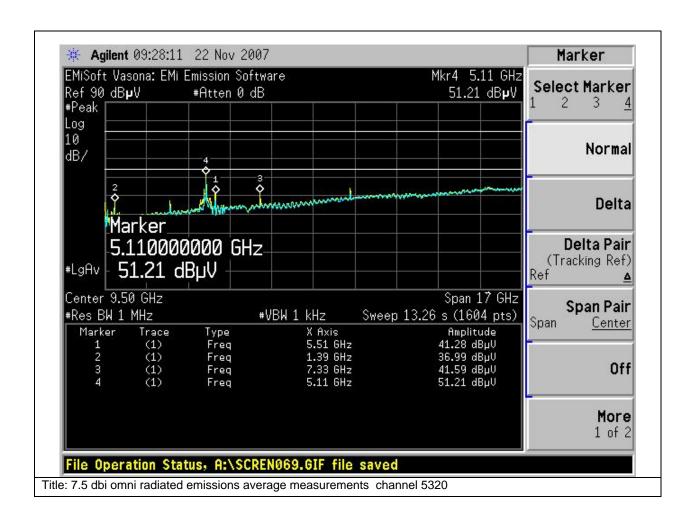




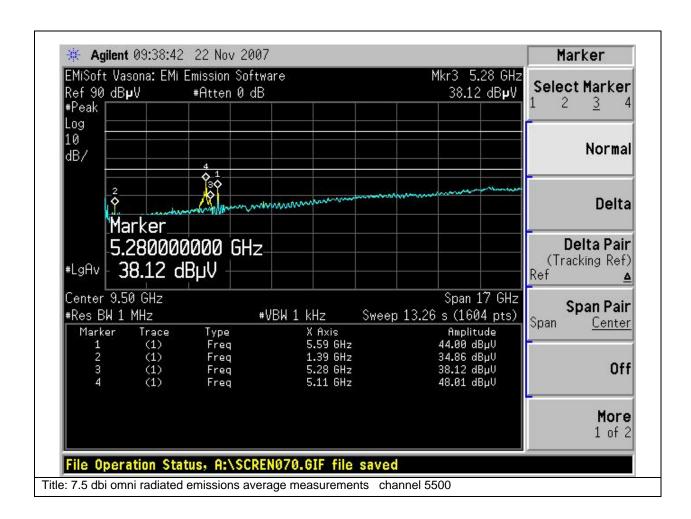




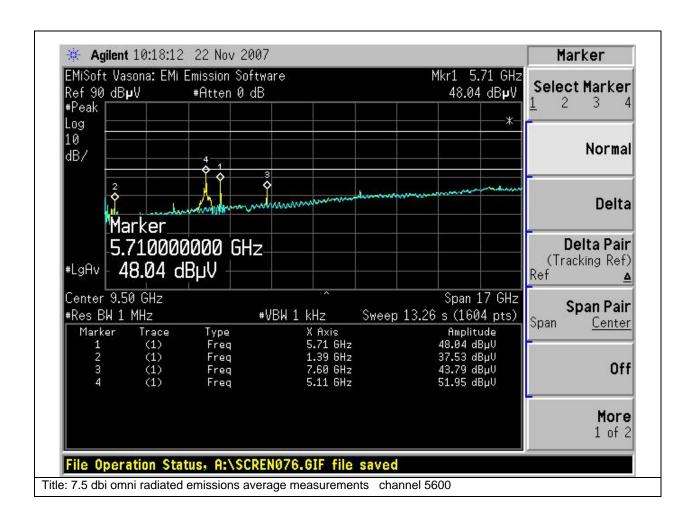




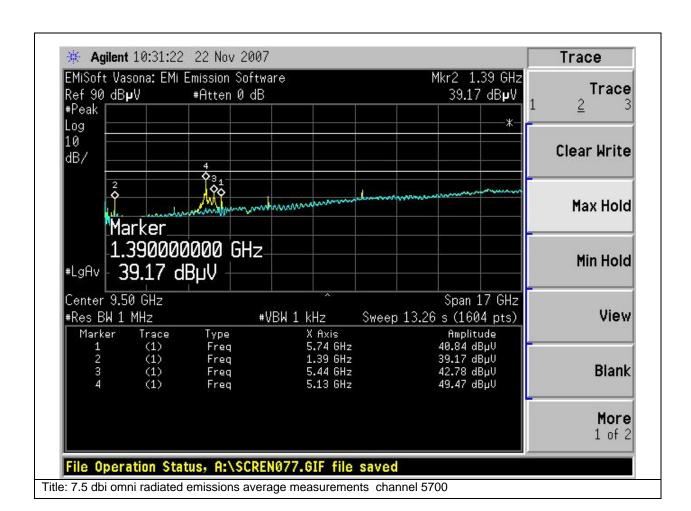






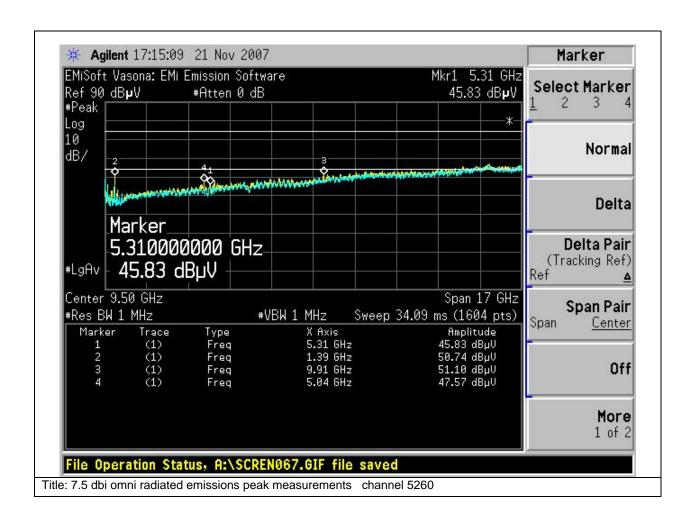




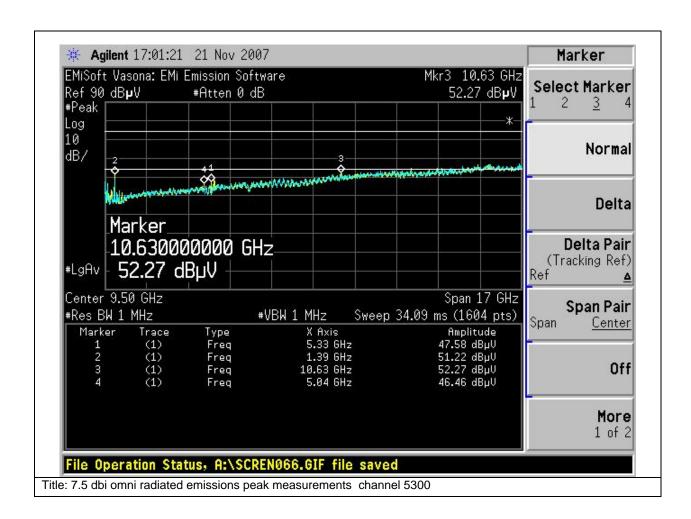


Subtest Number: 30416 - 4		Subtest Date: 15-Feb-2008
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	N/A	
Subtest Result	Pass	
Highest Frequency	N/A	
Lowest Frequency	N/A	
Comments on the above Test Results	No further comments	

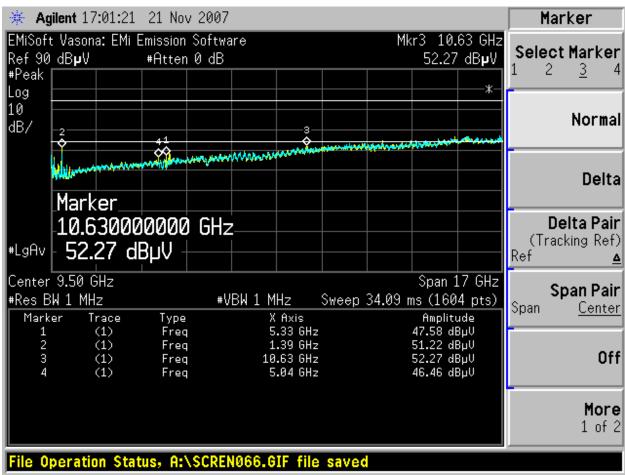






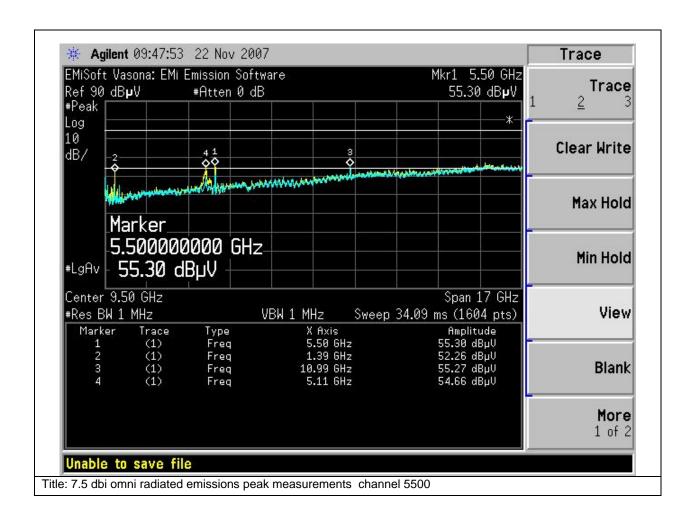




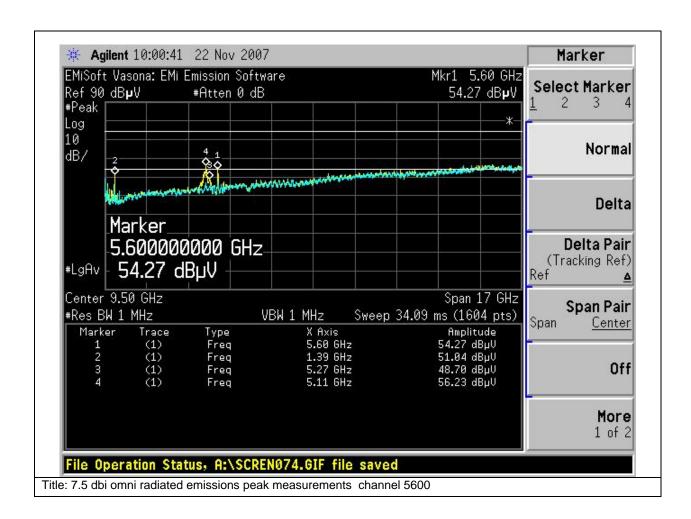


Title: 7.5 dbi omni radiated emissions peak measurements channel 5320

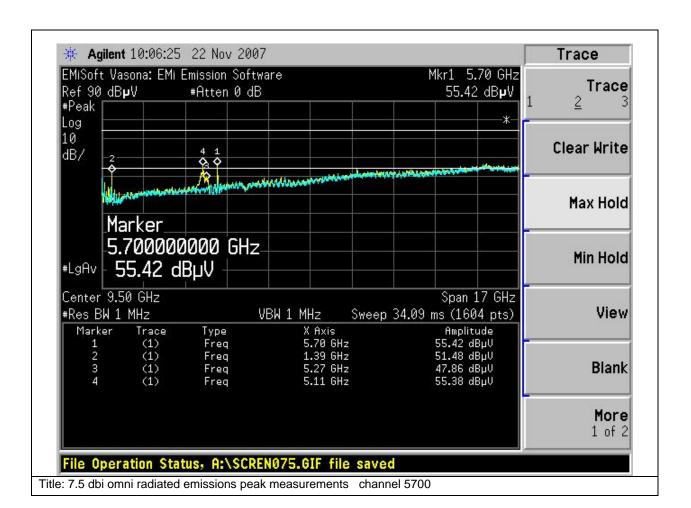










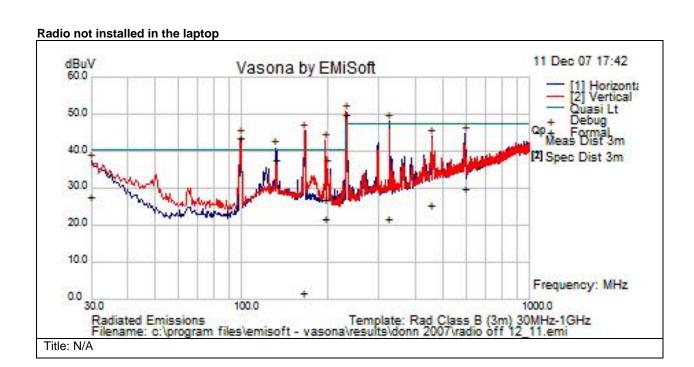


Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements

Note:

Due to the test jig arcitecture the internal signals from the PC were drawn out throught the PCI slot which the test jig uses. The first scan is of the PC and test jig with the radio not running and the second scan shows how the PC noise is increased when the power to the radio in turned on. All the freqs. Shown are related to the PC and not the radio.





Test Results Table

	-	Cable	AF dB		Measureme	Pol	Hgt	Azt		3	Pass /Fail	Comments
MHz	dBuV	Loss		dBuV	nt Type		cm	Deg	dBuV	dB		
164.407	37.9	1.4	11.9	50.2	Qp	V	193	360	40.5	9.7	Fail	
99.828	30.6	1.1	10.2	41.8	Qp	V	120	291	40.5	1.3	Fail	
230.128	35.5	1.6	11.1	48.2	Qp	V	234	275	47.5	0.7	Fail	
195.403	6.6	1.5	12	20	Qp	V	185	0	40.5	-20.5	Pass	
326.414	4.1	1.9	13.9	19.9	Qp	Н	208	333	47.5	-27.6	Pass	
131.521	21	1.2	13.8	36	Qp	Н	224	1	40.5	-4.5	Pass	

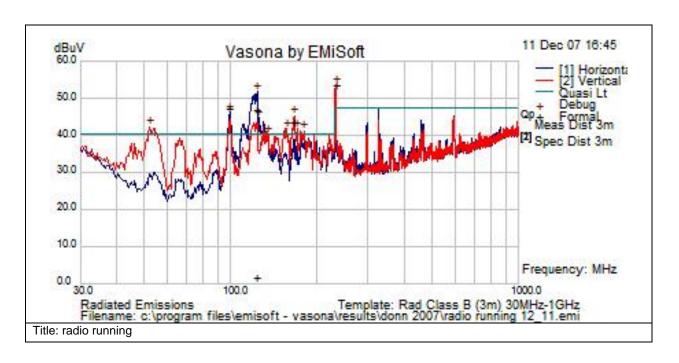
Subtest Number: 29607 - 4		Subtest Date: 17-Dec-2007
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	30-1000MHz.	
Subtest Result	Pass	
Highest Frequency	1000.0	
Lowest Frequency	30.0	
Comments on the above Test Results	No further comments	

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

Radio running in the laptop





Test Results Table

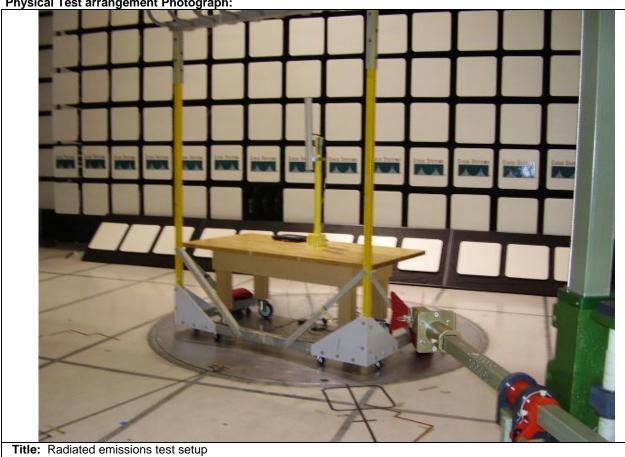
Frequency MHz	Raw dBuV	Cable Loss	AF dB		Measureme nt Type		J			Margin dB	Pass /Fa	Il Comments
123.726	30.1	1.2	14	45.2	Qp	Н	199	361	40.5	4.7	Fa	il
232.826	38.9	1.6	11.3	51.8	Qp	V	218	0	47.5	4.3	Fa	il
99.762	34.2	1.1	10.1	45.4	Qp	Н	161	320	40.5	4.9	Fa	il
166.282	28.5	1.4	11.8	41.8	Qp	V	146	360	40.5	1.3	Fa	il

Radio Intentional EMC Test Report No: **EDCS - 651967** FCC ID: LDKATBRTH16, Canada: 2461B-ATBRTH16





Physical Test arrangement Photograph:



Comments on the above Photograph:

No further comments





Comments on the above Photograph:

No further comments





Comments on the above Photograph:

No further comments



Radiated emissions

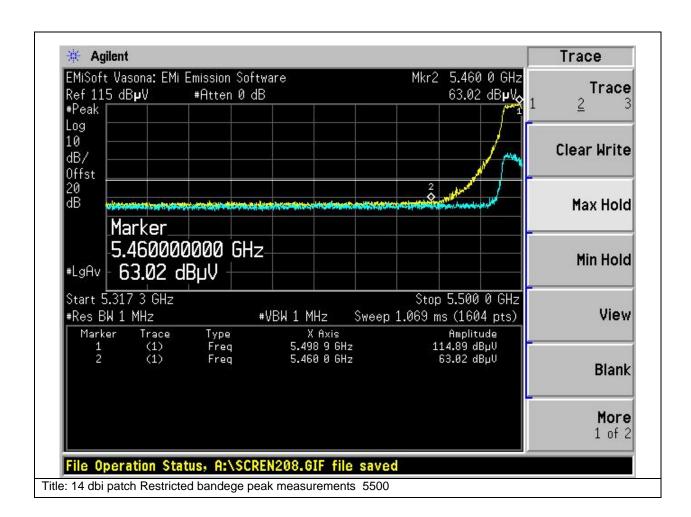
Test Number: 3	Test Number: 30418 Spec ID: 648							
Basic Standard	Applied to	Class	Freq Range	Test Details / Comments				
Restricted Bandedge Measurements	Enclosure	В	2.4GHz - 5.825GHz	CFR47 Part 15.205,CFR47 Part 15.209,LP002, RSS210HKTA1039				
Operating Mode	Mode: 1, Conti	nuous Transm	it					
Power Input	5 , DC (+/-20%)							
Overall Result	Pass							
Comments	No further comr	No further comments						
Deviation	There were no	deviations from	the specification					

System Number	Description	Samples	System under test	Support equipment
2	Support equipment	S02, S03 and S04		\checkmark
3	Radiated testing for the 7.5 Omni antenna	S01 and S05	☑	
4	Radiated testing for the 14dbi patch	S01 and S06	\square	

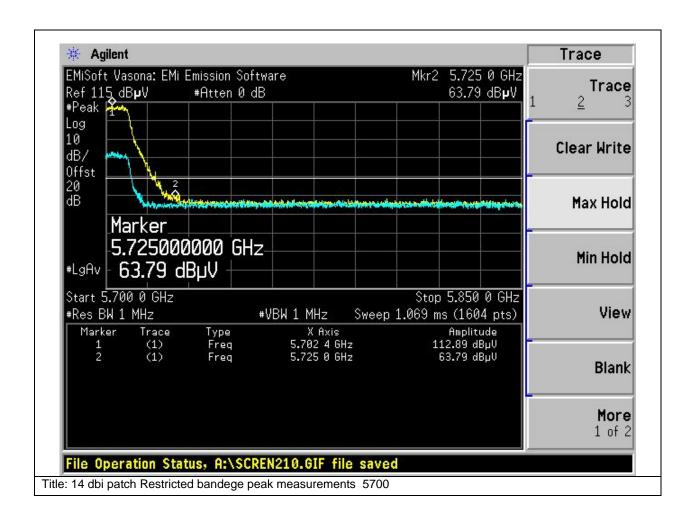
Subtest Number: 30418 - 1		Subtest Date: 15-Feb-2008	
Engineer	Donald Foster		
Lab Information	Building P, 10m Anechoic		
Subtest Results			
Subtest Title	N/A		
Subtest Result	Pass		
Highest Frequency	N/A		
Lowest Frequency	N/A		
Comments on the above Test Results	No further comments		

Graphical Test Results

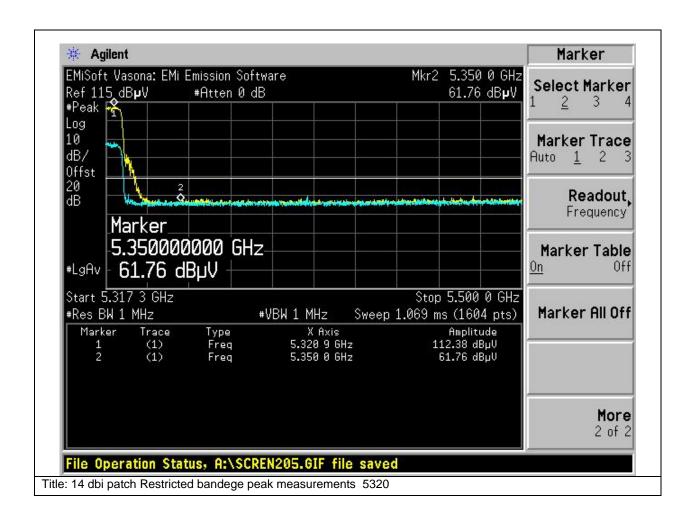






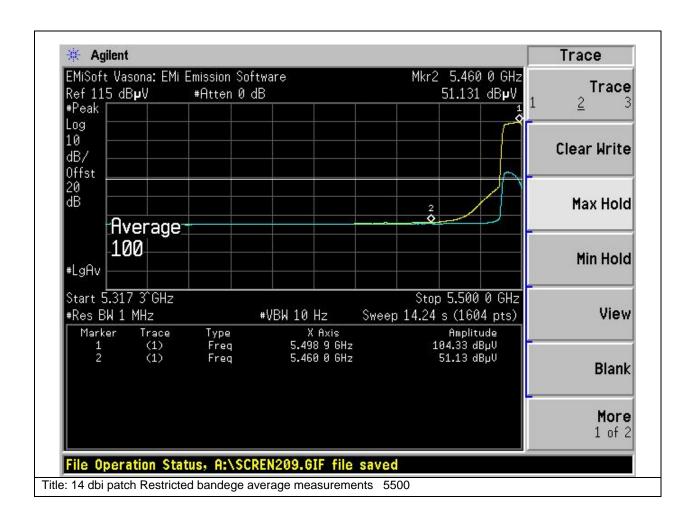




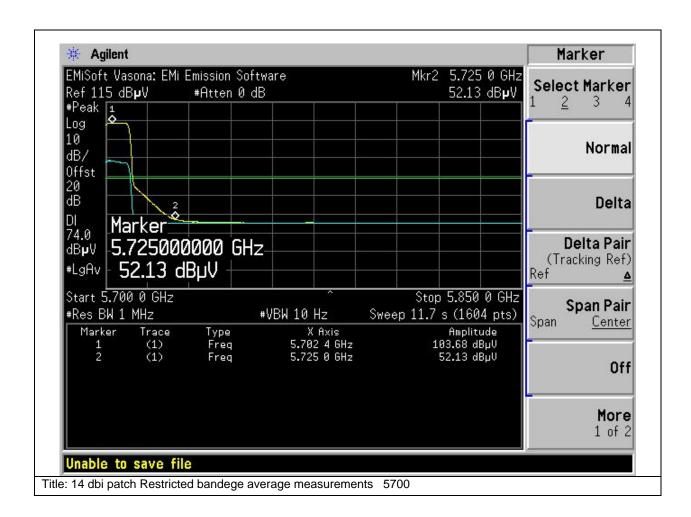


Subtest Number: 30418 - 2		Subtest Date: 15-Feb-2008
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	N/A	
Subtest Result	Pass	
Highest Frequency	N/A	
Lowest Frequency	N/A	
Comments on the above Test Results	No further comments	

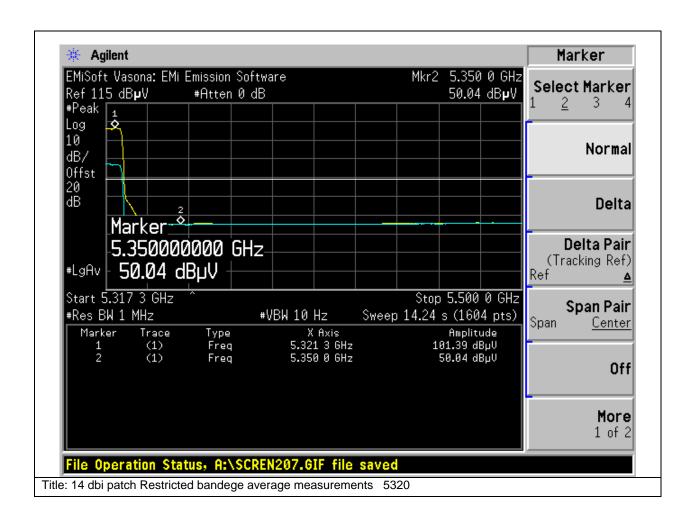










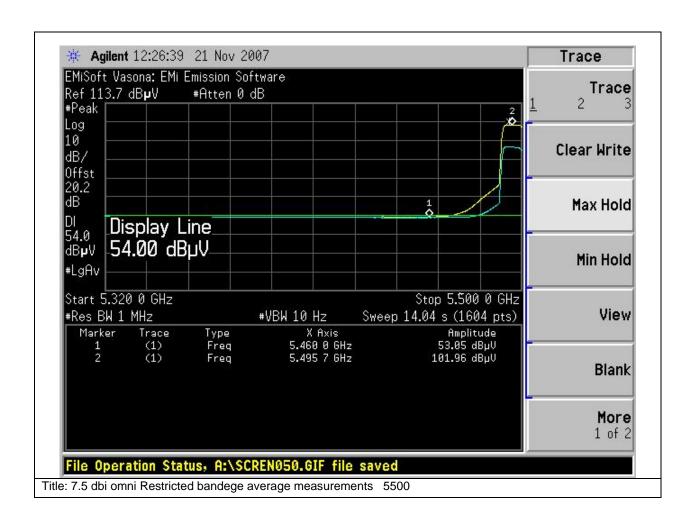


Subtest Number: 3041	8 - 3	Subtest Date: 15-Feb-2008
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results		
Subtest Title	N/A	
Subtest Result	Pass	
Highest Frequency	N/A	
Lowest Frequency	N/A	
Comments on the above Test Results	No further comments	

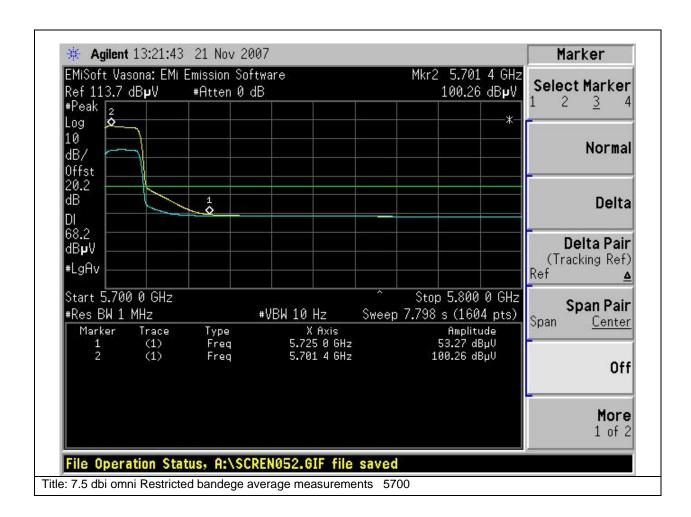
Graphical Test Results

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

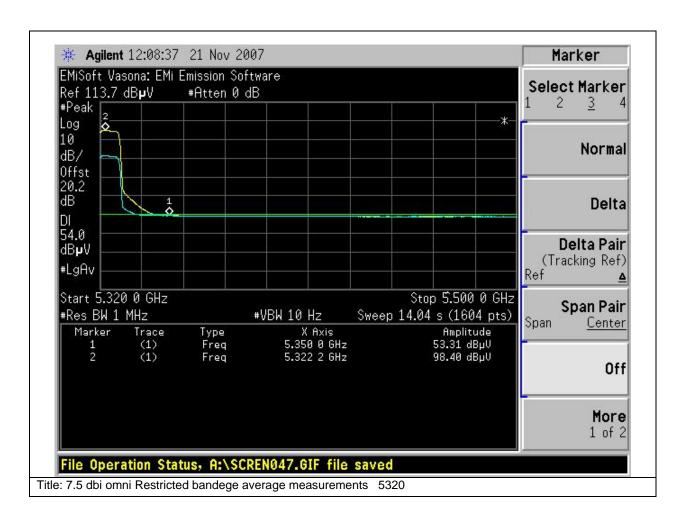










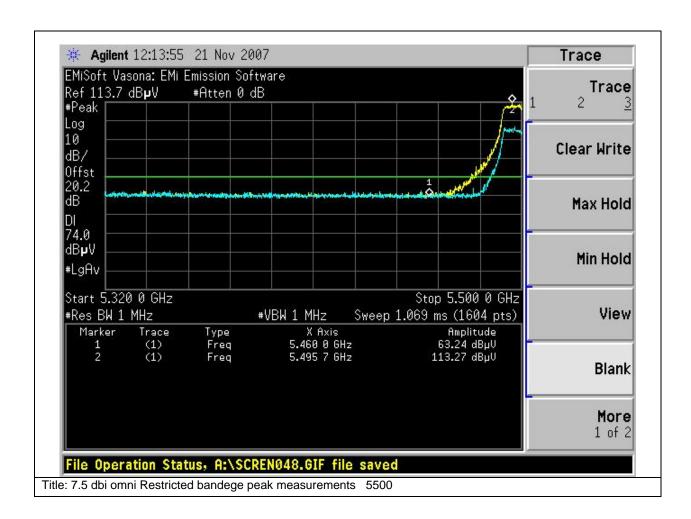


Subtest Number: 30418 - 4		Subtest Date: 15-Feb-2008
Engineer	Donald Foster	
Lab Information	Building P, 10m Anechoic	
Subtest Results	'	
Subtest Title	N/A	
Subtest Result	Pass	
Highest Frequency	N/A	
Lowest Frequency	N/A	
Comments on the above Test Results	No further comments	

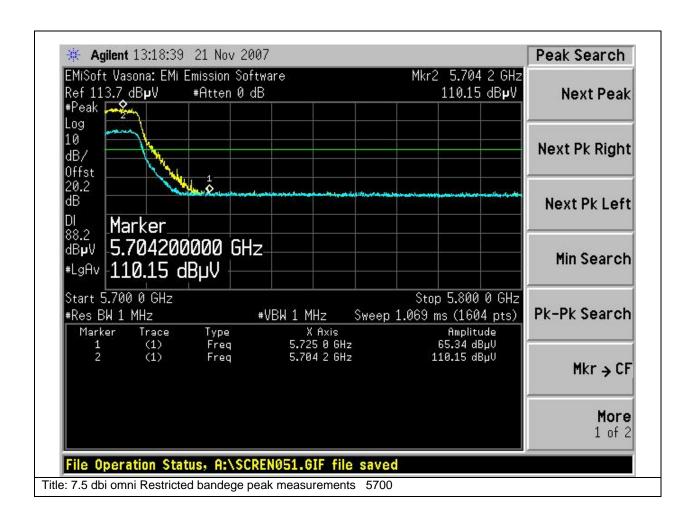
Graphical Test Results

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

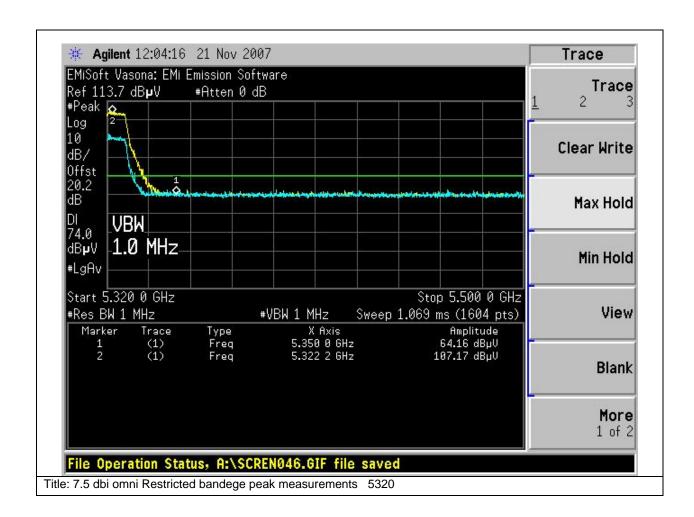






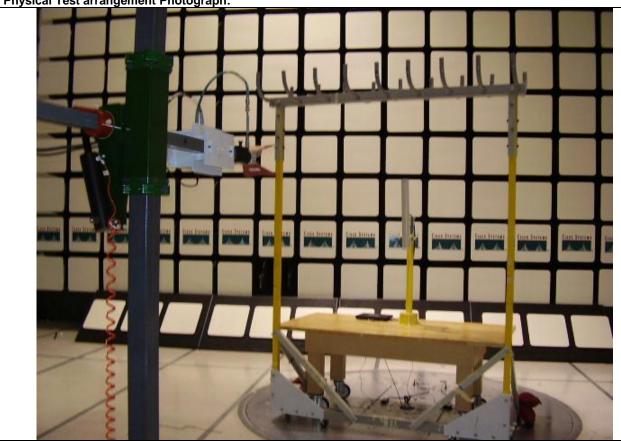








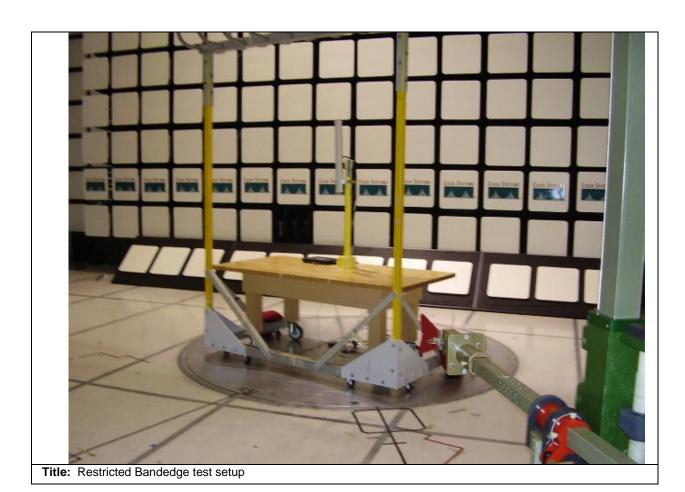
Physical Test arrangement Photograph:



Title: Restricted Bandedge test setup

Comments on the above Photograph:





Comments on the above Photograph:





Comments on the above Photograph:





Comments on the above Photograph: