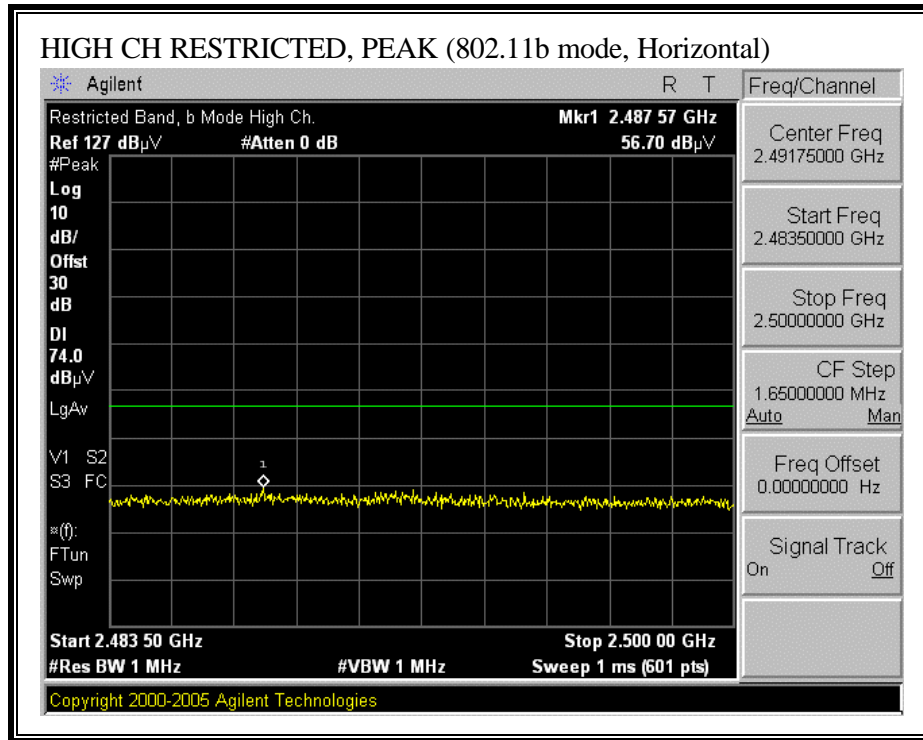
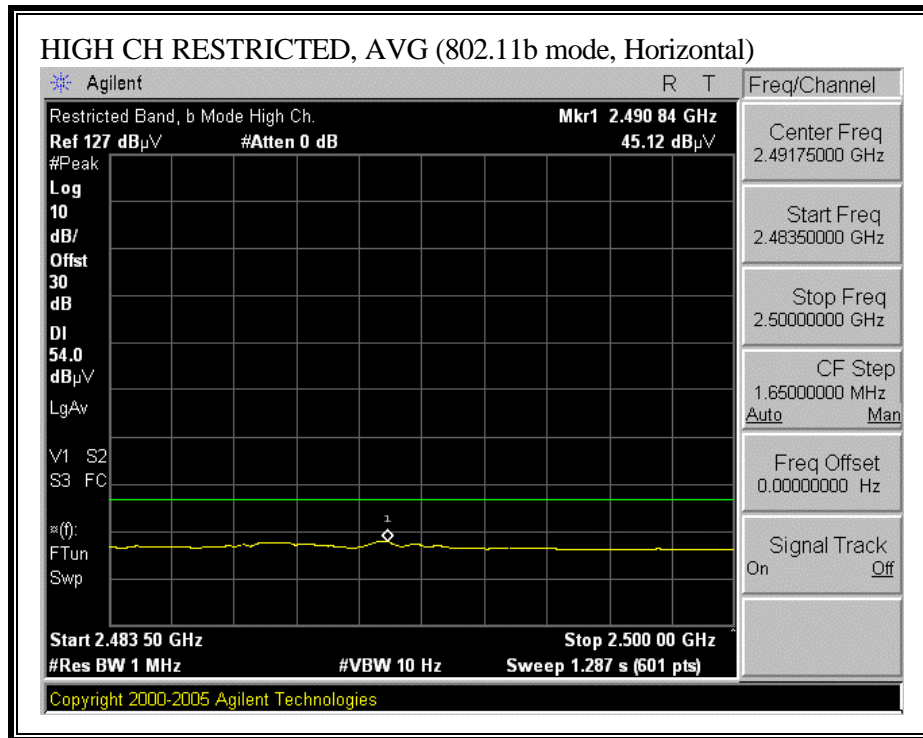
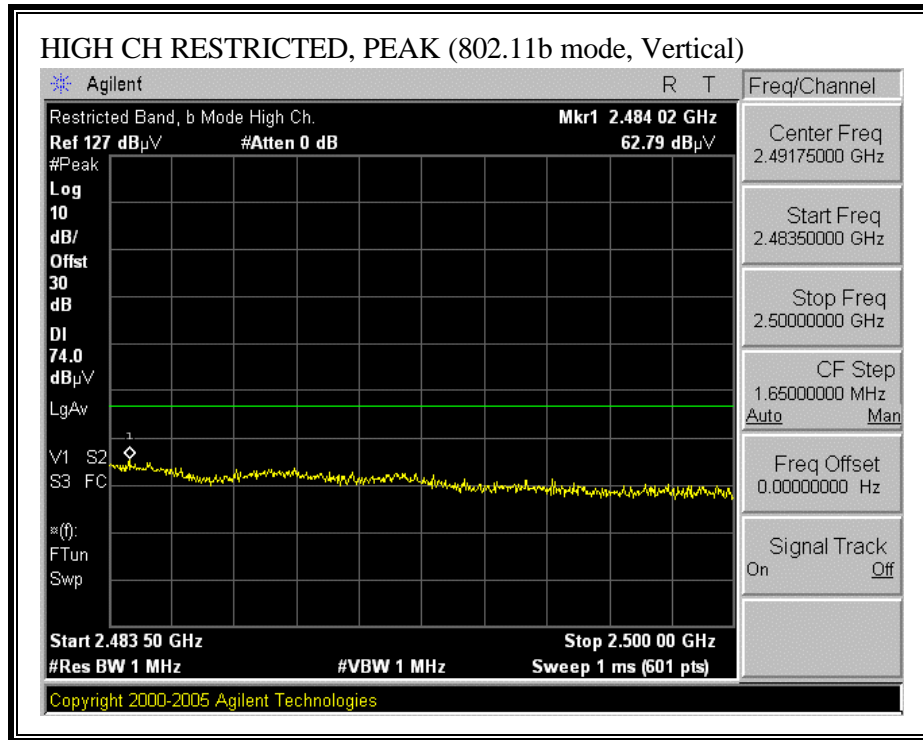


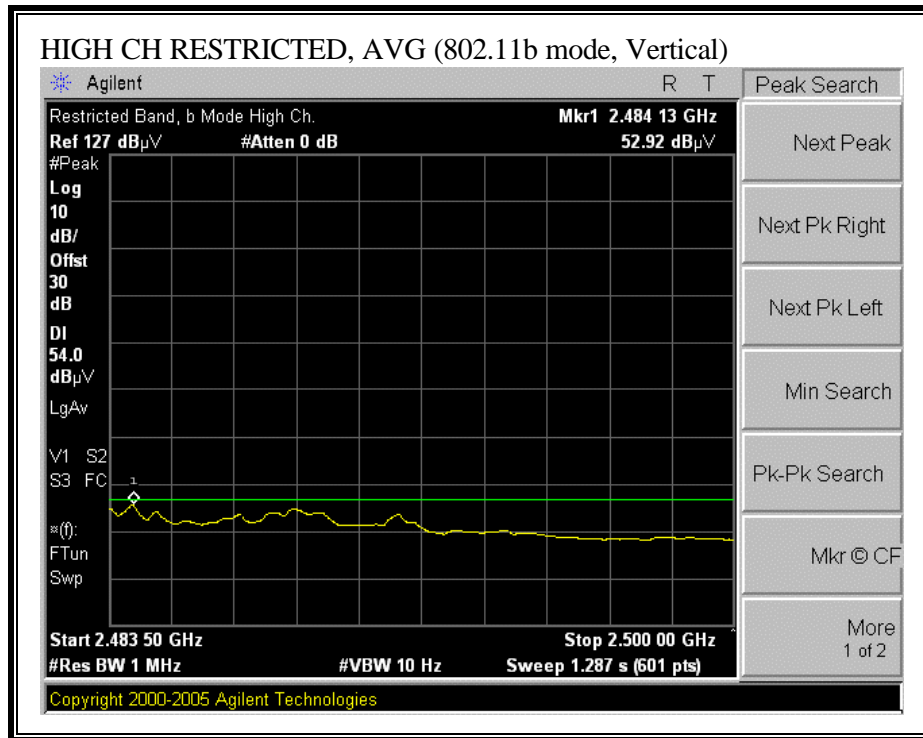
**RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS (b MODE)**

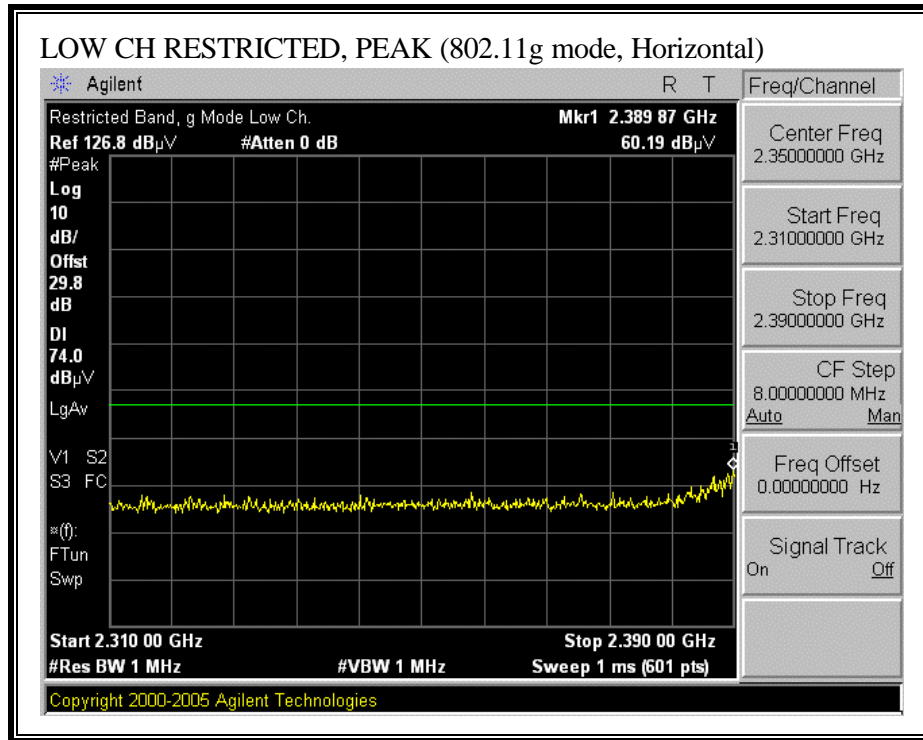
04/10/06 High Frequency Measurement  
 Compliance Certification Services, Morgan Hill Open Field Site

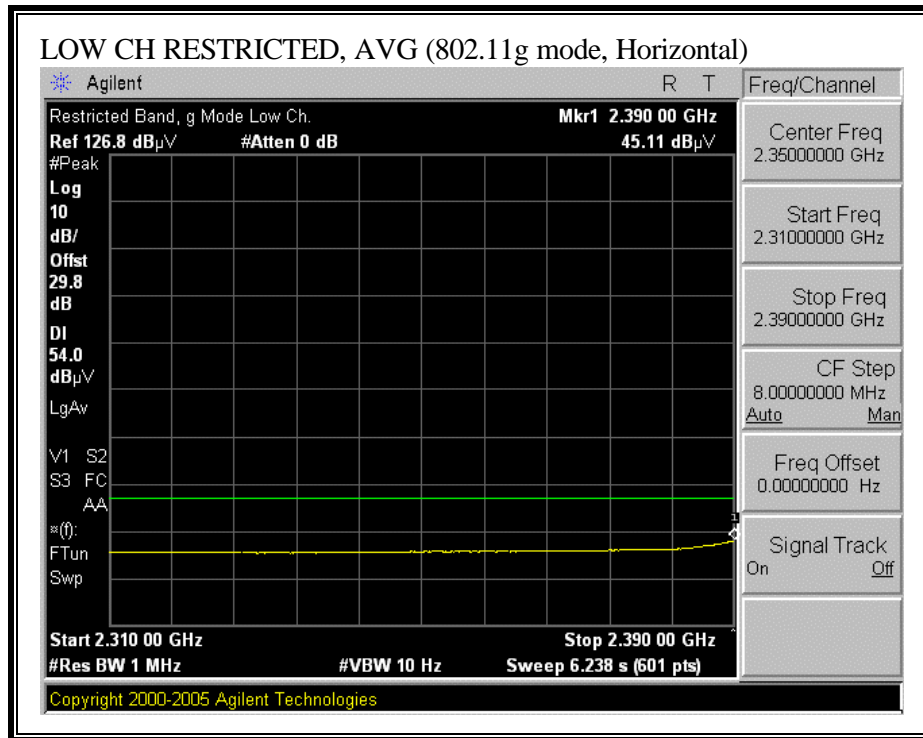
Test Engr: Ninous Davoudi  
 Project #: 06U10181  
 Company: Airgo  
 EUT Descr.: 2x2 mPCI Board with RFMD Power Amplifier  
 EUTM/N:  
 Test Target: FCC  
 Mode Oper: Transmit b mode

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
h mode L ch															
4.874	3.0	57.7	52.7	33.7	3.1	-44.5	0.0	0.6	50.6	45.6	74.0	54.0	-23.4	-8.4	V
7.236	3.0	54.1	45.5	35.4	3.5	-43.7	0.0	0.6	49.9	41.4	74.0	54.0	-24.1	-12.6	V
9.648	3.0	48.2	36.7	37.5	3.9	-41.5	0.0	0.8	48.8	37.3	74.0	54.0	-25.2	-16.7	V
12.060	3.0	48.5	37.1	38.5	4.3	-42.3	0.0	0.9	49.9	38.5	74.0	54.0	-24.1	-15.5	V
no signal detected above this frequency															
4.874	3.0	55.1	48.3	33.7	3.1	-44.5	0.0	0.6	48.0	41.2	74.0	54.0	-26.0	-12.8	H
7.236	3.0	50.9	39.6	35.4	3.5	-43.7	0.0	0.6	46.8	35.4	74.0	54.0	-27.2	-18.6	H
9.648	3.0	48.1	36.4	37.5	3.9	-41.5	0.0	0.8	48.8	37.0	74.0	54.0	-25.2	-17.0	H
no signal detected above this frequency															
h mode M ch															
4.874	3.0	46.2	40.2	34.0	3.0	-34.9	0.0	0.6	48.9	42.9	74	54	-25.1	-11.1	H
7.311	3.0	44.8	35.1	35.9	4.2	-34.7	0.0	0.6	50.8	41.1	74	54	-23.2	-12.9	H
9.748	3.0	43.0	32.3	37.7	4.7	-35.0	0.0	0.8	51.2	40.5	74	54	-22.8	-13.5	H, NOISE FLOOR
no signal detected above this frequency															
4.874	3.0	45.8	38.3	34.0	3.0	-34.9	0.0	0.6	48.5	41.0	74	54	-25.5	-13.0	V
7.311	3.0	45.0	36.4	35.9	4.2	-34.7	0.0	0.6	51.0	42.4	74	54	-23.0	-11.6	V
9.748	3.0	43.4	32.6	37.7	4.7	-35.0	0.0	0.8	51.6	40.8	74	54	-22.4	-13.2	V, NOISE FLOOR
no signal detected above this frequency															
h mode H ch															
4.924	3.0	54.4	49.5	33.8	3.1	-44.6	0.0	0.6	47.4	42.5	74.0	54.0	-26.6	-11.5	V
7.386	3.0	50.8	38.7	35.6	3.5	-43.6	0.0	0.6	47.0	34.9	74.0	54.0	-27.0	-19.1	V
9.848	3.0	47.3	36.4	37.6	3.9	-40.9	0.0	0.8	48.7	37.8	74.0	54.0	-25.3	-16.2	V
no signal detected above this frequency															
4.924	3.0	55.4	50.1	33.8	3.1	-44.6	0.0	0.6	48.4	43.1	74.0	54.0	-25.6	-10.9	H
7.386	3.0	50.3	38.5	35.6	3.5	-43.6	0.0	0.6	46.5	34.8	74.0	54.0	-27.5	-19.2	H
9.848	3.0	47.4	37.3	37.6	3.9	-40.9	0.0	0.8	48.7	38.7	74.0	54.0	-25.3	-15.3	H
no signal detected above this frequency															

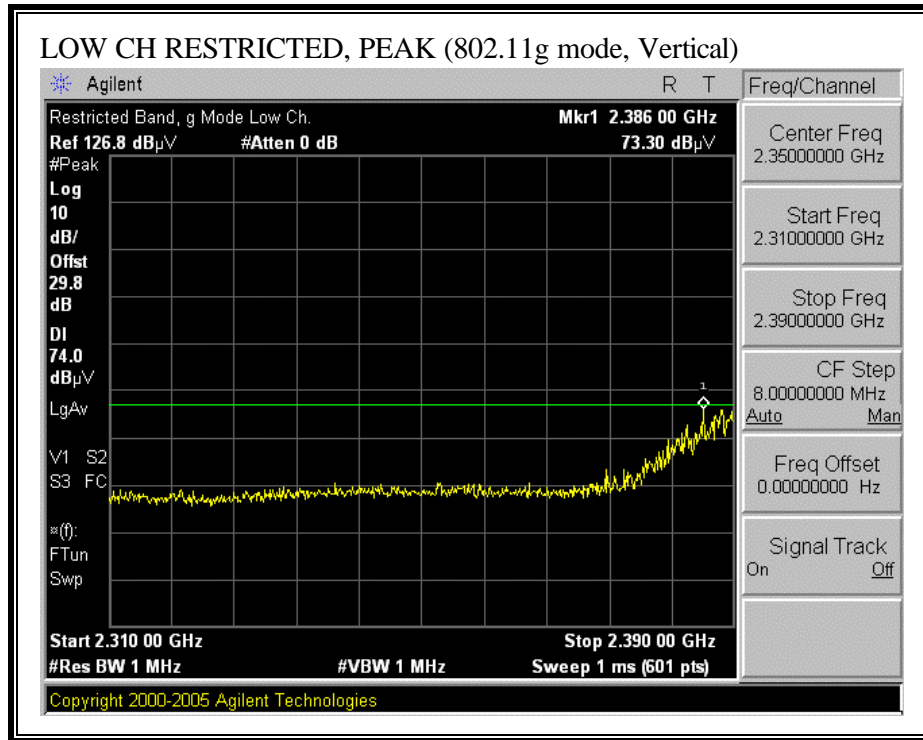
**RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)**

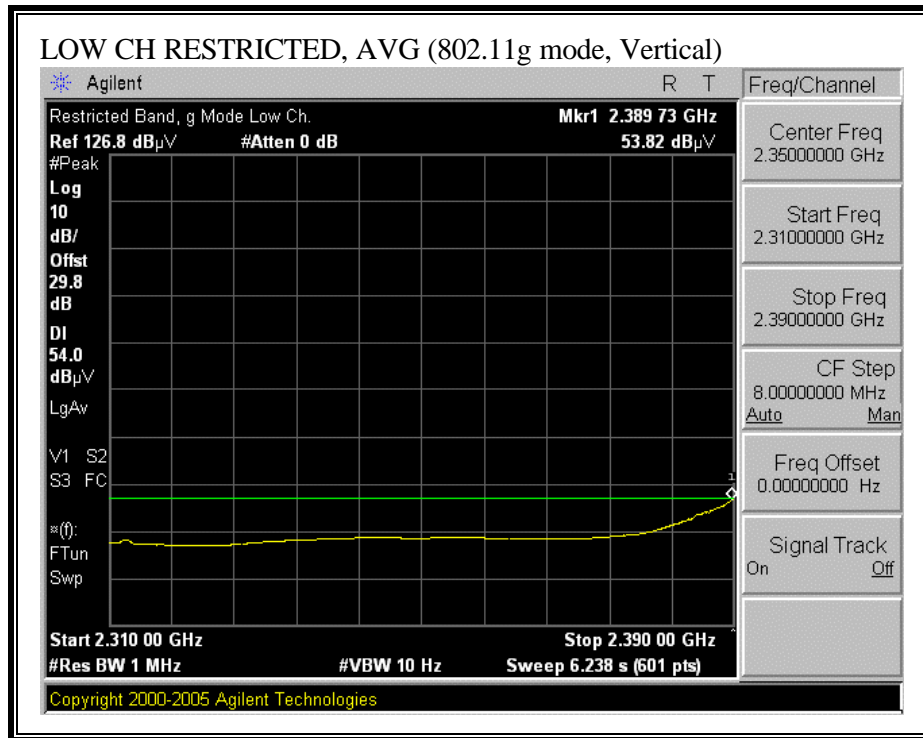




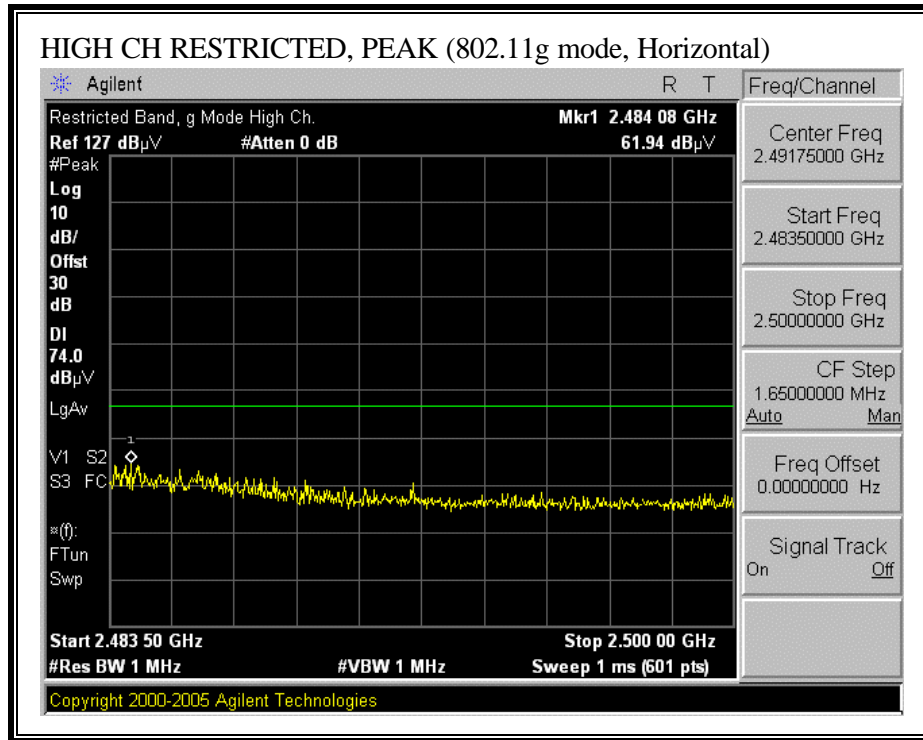


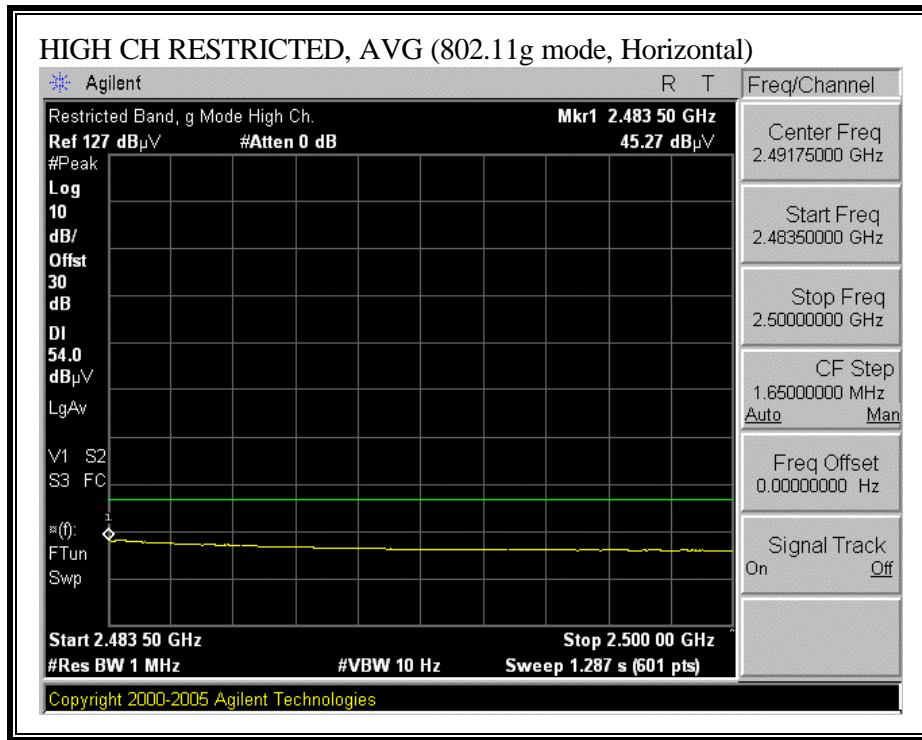
**RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)**



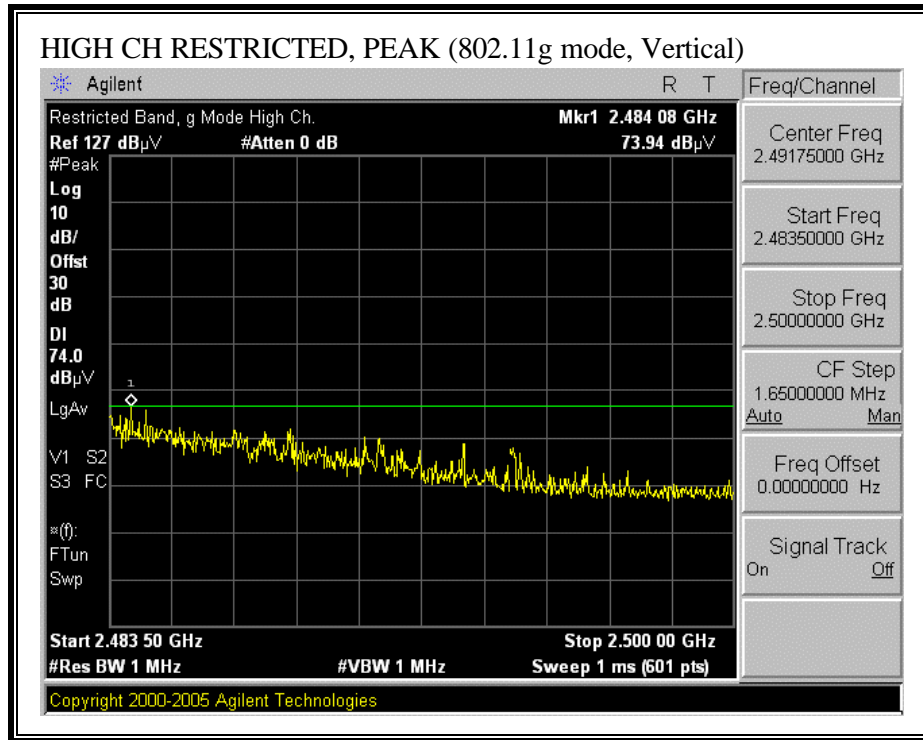


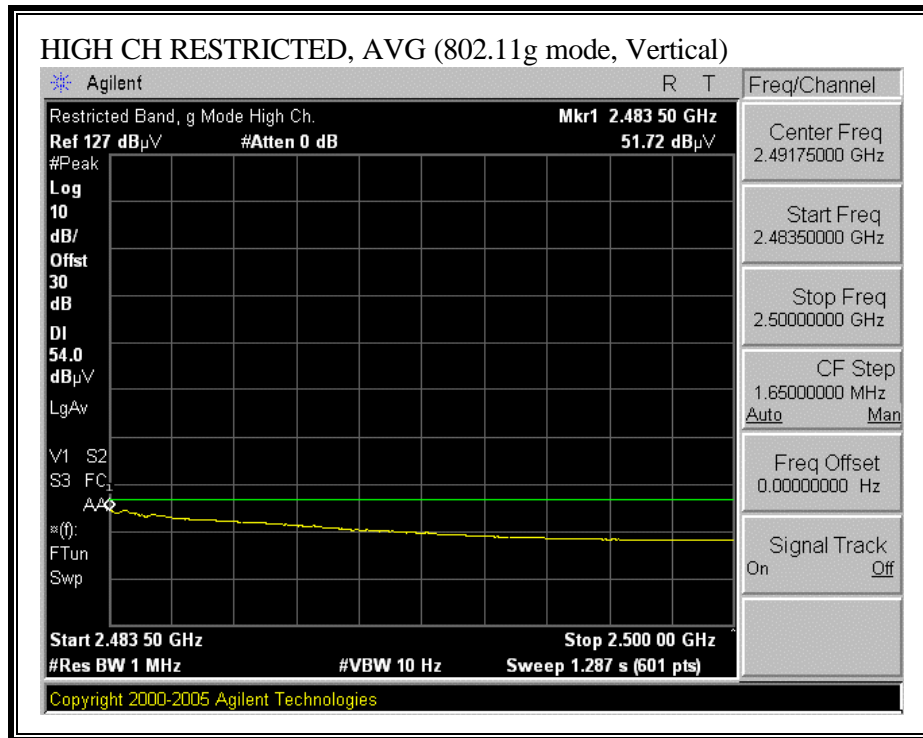
**RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)**

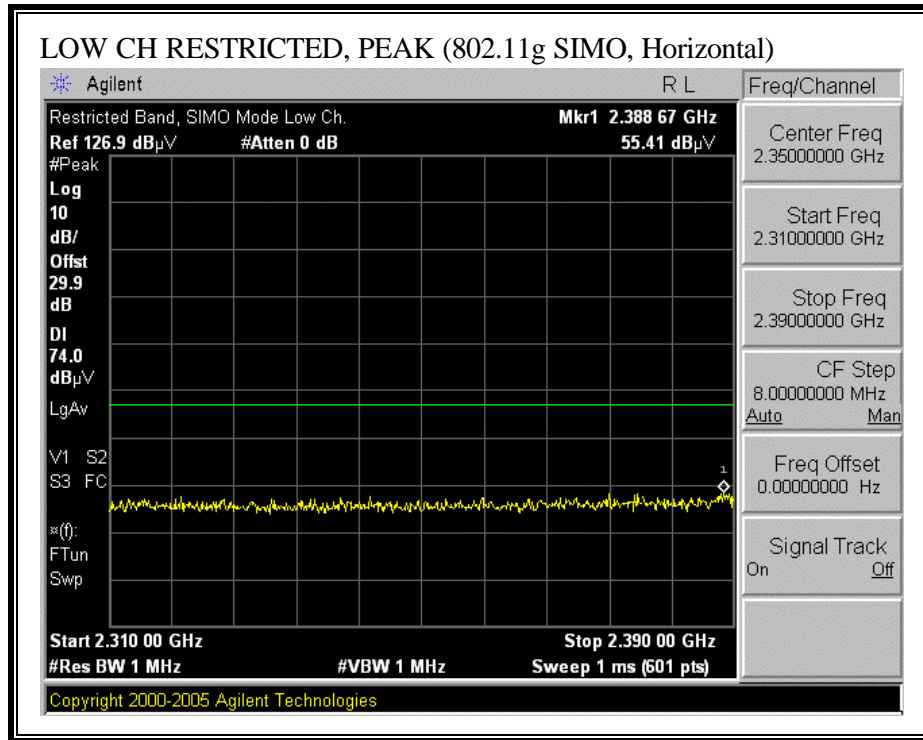




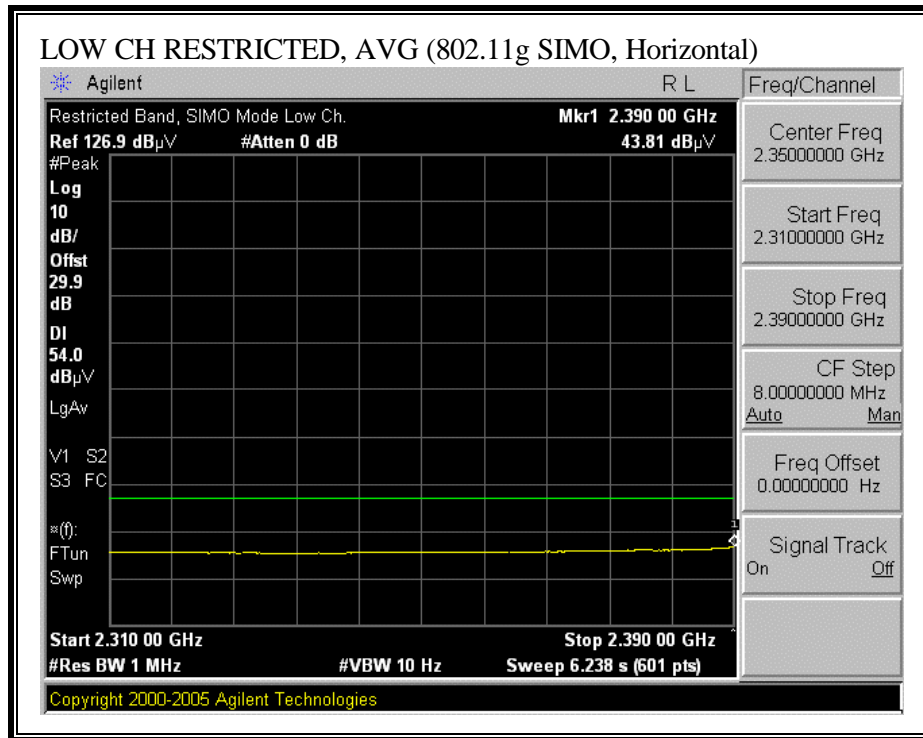
**HARMONICS AND SPURIOUS EMISSIONS (g MODE)**

04/10/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site																
Test Engr: Ninous Davoudi																
Project #: 06U10181																
Company: Airgo																
EUT Descr.: 2x2 mPCI Board with RFMD Power Amplifier																
EUT M/N:																
Test Target: FCC																
Mode Oper: Transmit g mode																
f	Measurement Frequency				Amp	Preamp Gain				Avg Lim	Average Field Strength Limit					
Dist	Distance to Antenna				D Corr	Distance Correct to 3 meters				Pk Lim	Peak Field Strength Limit					
Read	Analyzer Reading				Avg	Average Field Strength @ 3 m				Avg Mar	Margin vs. Average Limit					
AF	Antenna Factor				Peak	Calculated Peak Field Strength				Pk Mar	Margin vs. Peak Limit					
CL	Cable Loss				HPF	High Pass Filter										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
<b>g mode L ch</b>																
4.824	3.0	54.8	48.0	33.7	3.1	-44.5	0.0	0.6	47.7	40.9	74.0	54.0	-26.3	-13.1	V	
7.236	3.0	51.2	39.3	35.4	3.5	-43.7	0.0	0.6	47.1	35.2	74.0	54.0	-26.9	-18.8	V	
9.648	3.0	48.2	36.2	37.5	3.9	-41.5	0.0	0.8	48.9	36.8	74.0	54.0	-25.1	-17.2	V	
no signal detected above this frequency																
4.824	3.0	51.3	41.7	33.7	3.1	-44.5	0.0	0.6	44.2	34.6	74.0	54.0	-29.8	-19.4	H	
7.236	3.0	50.2	38.8	35.4	3.5	-43.7	0.0	0.6	46.0	34.6	74.0	54.0	-28.0	-19.4	H	
9.648	3.0	47.4	36.2	37.5	3.9	-41.5	0.0	0.8	48.1	36.8	74.0	54.0	-25.9	-17.2	H	
no signal detected above this frequency																
<b>g mode M ch</b>																
4.874	3.0	43.0	31.1	34.0	3.0	-34.9	0.0	0.6	45.7	33.8	74	54	-28.3	-20.2	H	
7.311	3.0	44.5	32.8	35.9	4.2	-34.7	0.0	0.6	50.5	38.8	74	54	-23.5	-15.2	H	
9.748	3.0	43.0	31.5	37.7	4.7	-35.0	0.0	0.8	51.2	39.7	74	54	-22.8	-14.3	H, NOISE FLOOR	
no signal detected above this frequency																
4.874	3.0	43.3	31.6	34.0	3.0	-34.9	0.0	0.6	46.0	34.3	74	54	-28.0	-19.7	V	
7.311	3.0	47.6	36.3	35.9	4.2	-34.7	0.0	0.6	53.6	42.3	74	54	-20.4	-11.7	V	
9.748	3.0	43.9	31.8	37.7	4.7	-35.0	0.0	0.8	52.1	40.0	74	54	-21.9	-14.0	V, NOISE FLOOR	
no signal detected above this frequency																
<b>g mode H ch</b>																
4.924	3.0	52.8	41.6	33.8	3.1	-44.6	0.0	0.6	45.8	34.6	74.0	54.0	-28.2	-19.4	H	
7.386	3.0	49.9	38.4	35.6	3.5	-43.6	0.0	0.6	46.1	34.6	74.0	54.0	-27.9	-19.4	H	
9.848	3.0	46.9	35.7	37.6	3.9	-40.9	0.0	0.8	48.3	37.1	74.0	54.0	-25.7	-16.9	H	
no signal detected above this frequency																
4.924	3.0	55.0	43.0	33.8	3.1	-44.6	0.0	0.6	48.0	36.0	74.0	54.0	-26.0	-18.0	V	
7.386	3.0	50.2	38.4	35.6	3.5	-43.6	0.0	0.6	46.4	34.7	74.0	54.0	-27.6	-19.3	V	
9.848	3.0	46.9	35.7	37.6	3.9	-40.9	0.0	0.8	48.2	37.1	74.0	54.0	-25.8	-16.9	V	
no signal detected above this frequency																

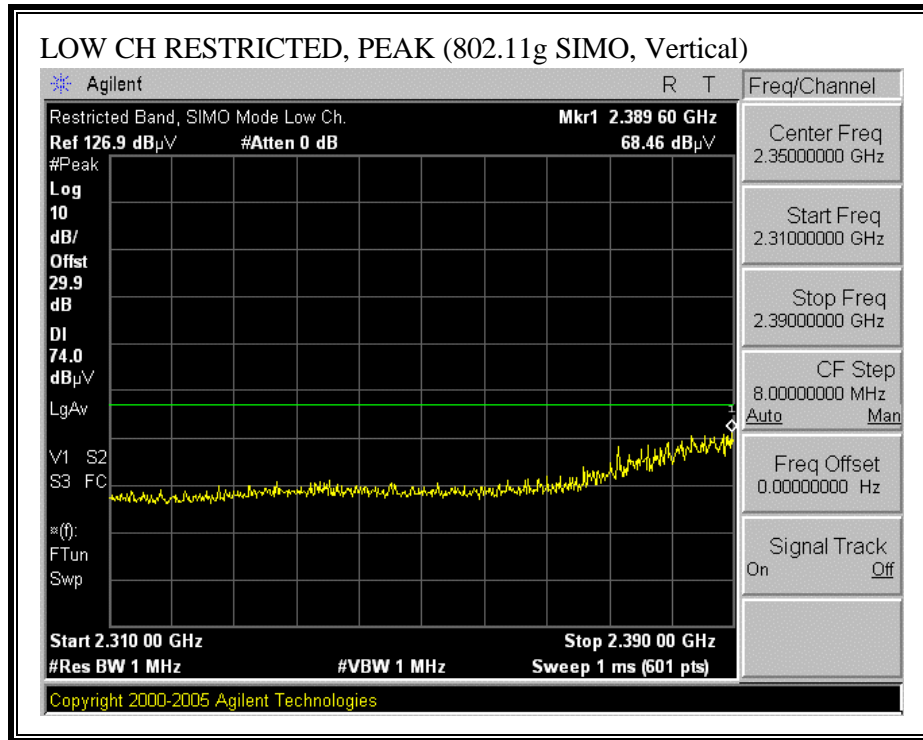
**RESTRICTED BANDEDGE (SIMO MODE, LOW CHANNEL, HORIZONTAL)**

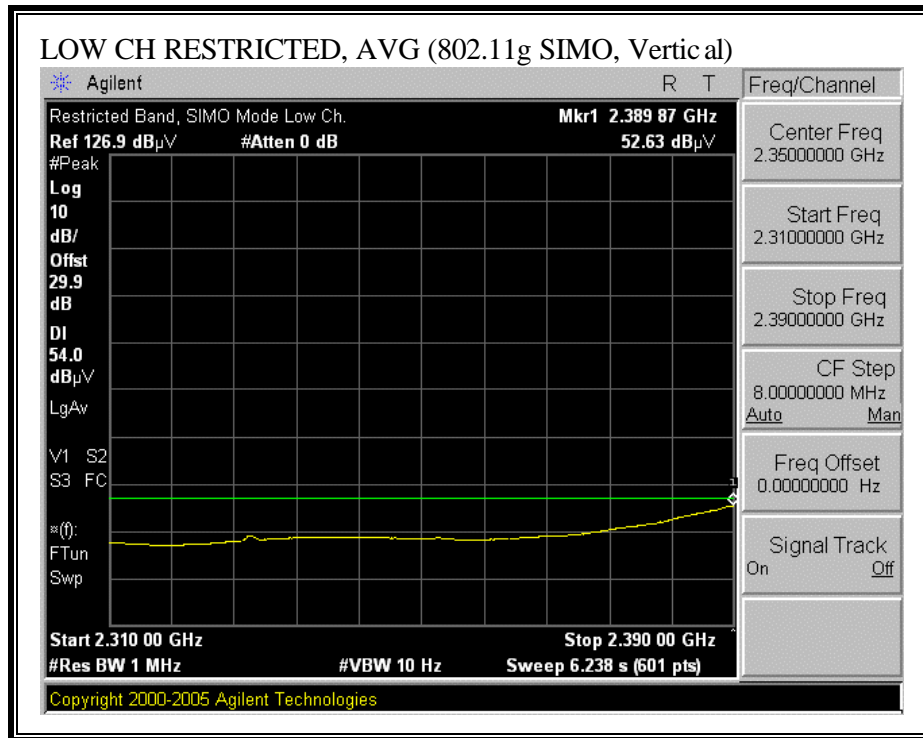




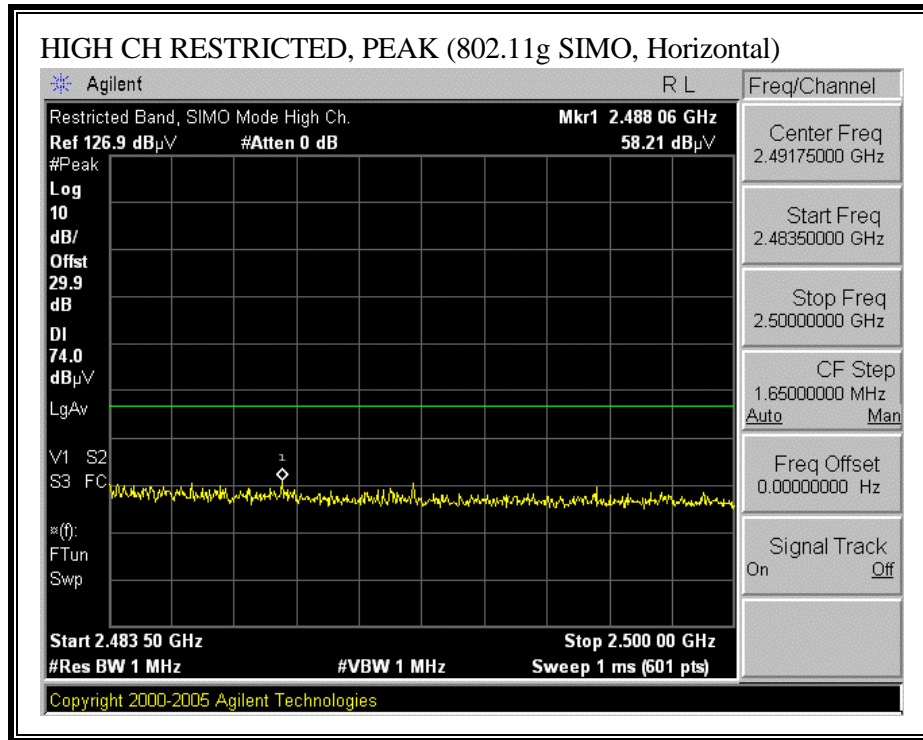


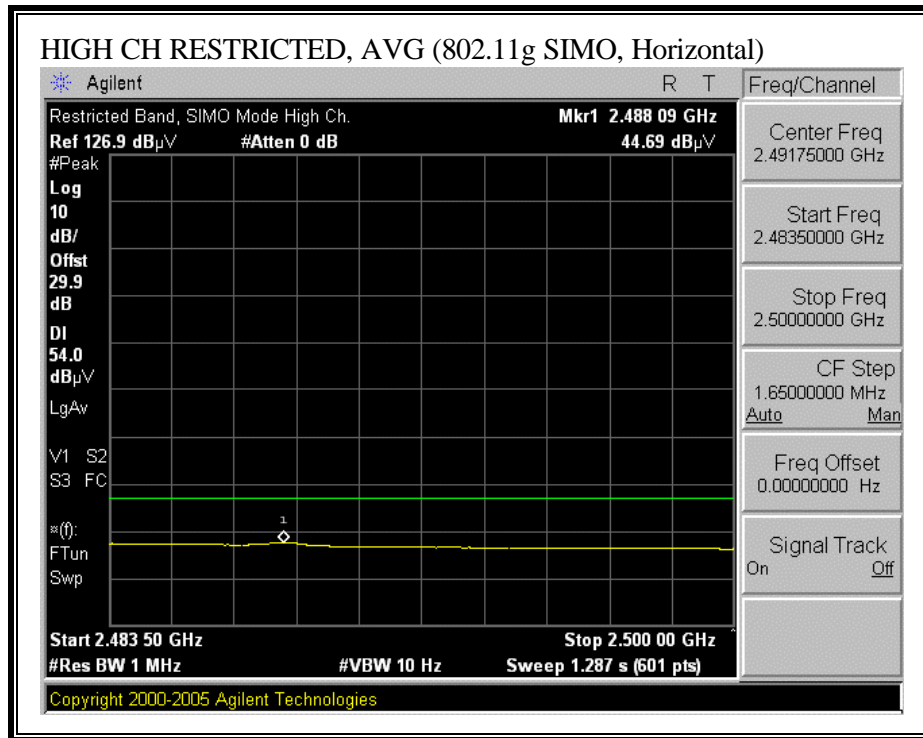
**RESTRICTED BANDEDGE (SIMO MODE, LOW CHANNEL, VERTICAL)**



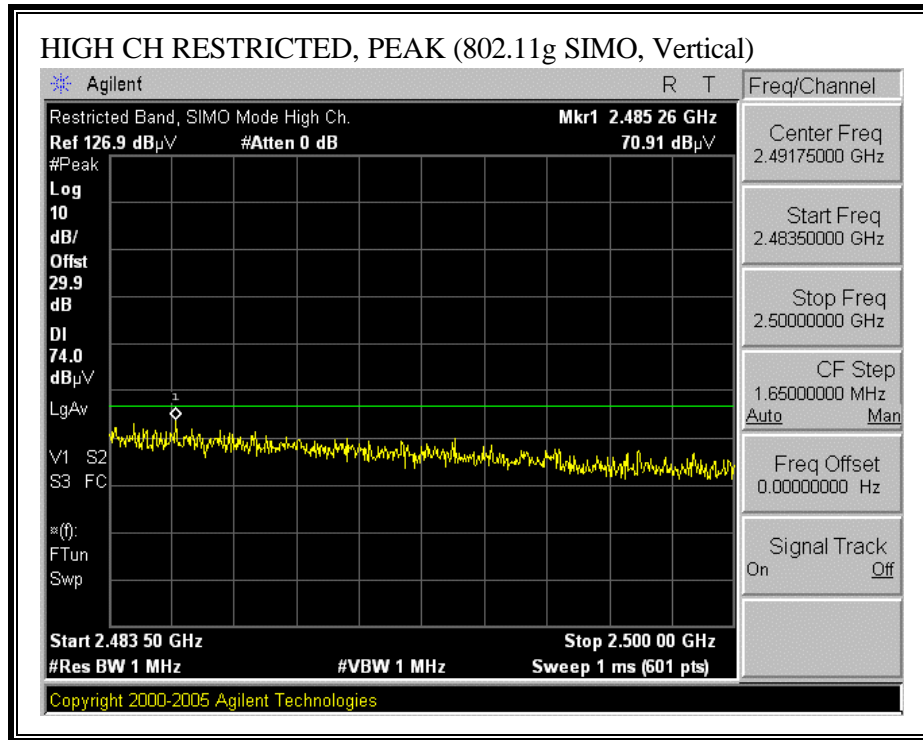


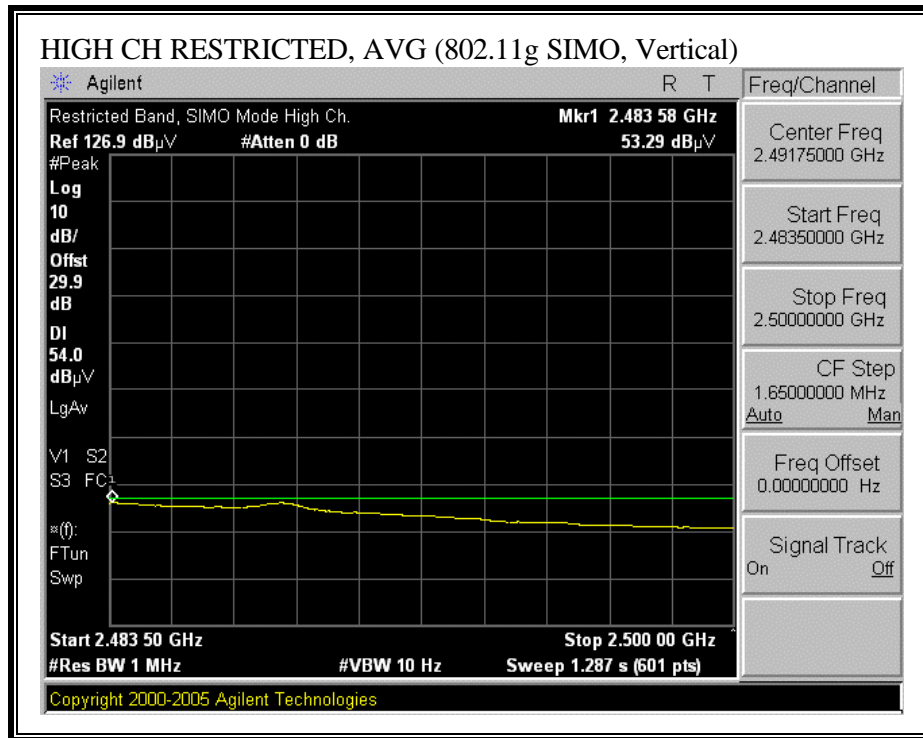
**RESTRICTED BANDEDGE (SIMO MODE, HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (SIMO, HIGH CHANNEL, VERTICAL)**



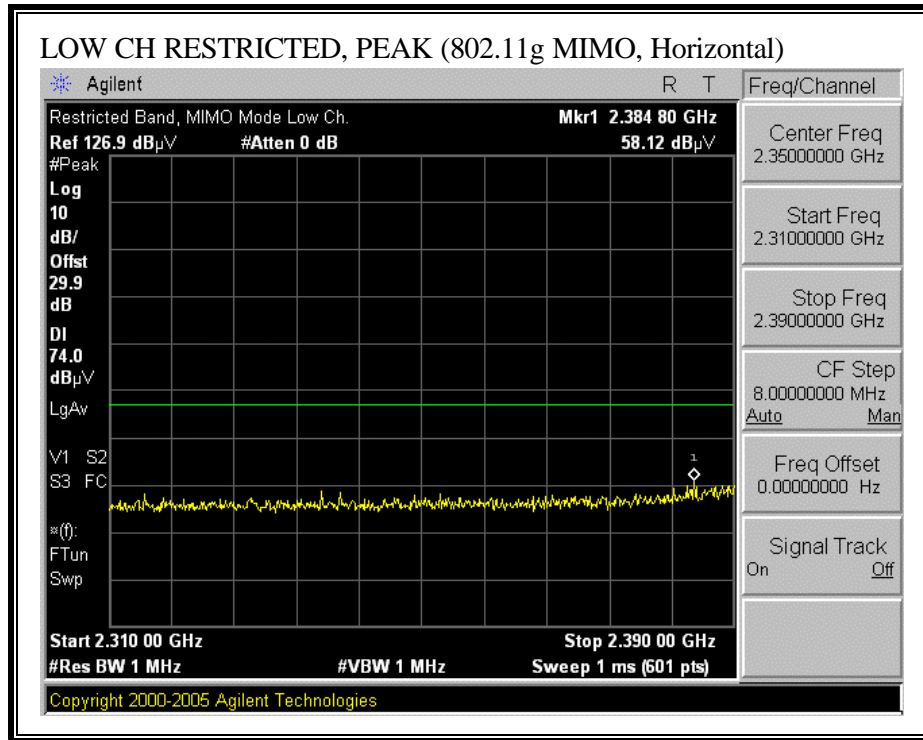


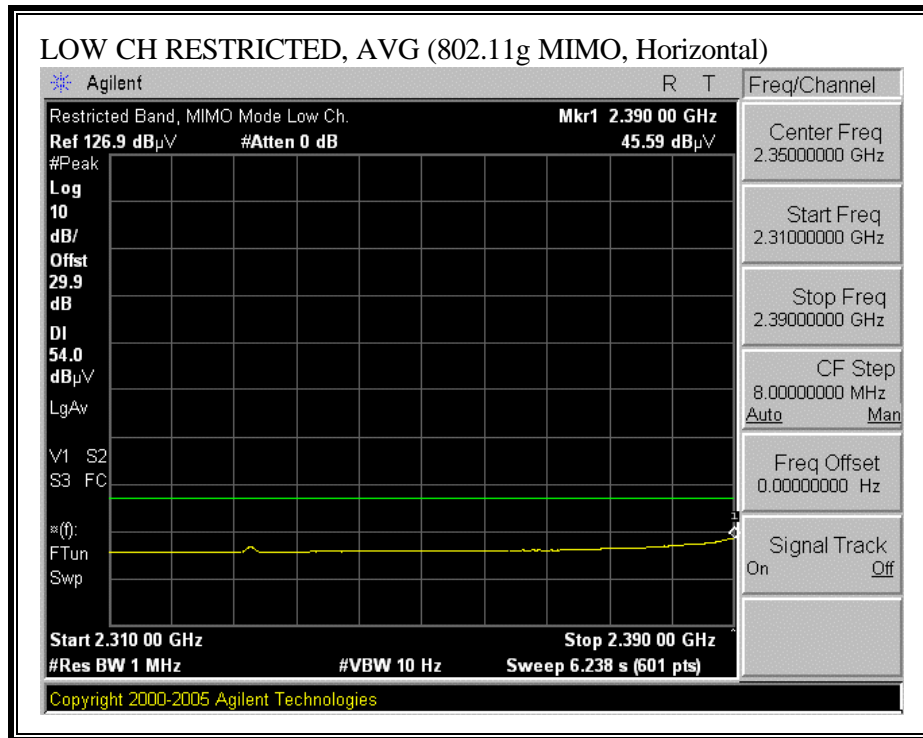
**HARMONICS AND SPURIOUS EMISSIONS (SIMO MODE)**

04/10/06 High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Test Engr: Ninous Davoudi																
Project #: 06U10181																
Company: Airgo																
EUT Descr.: 2x2 mPCI Board with RFMD Power Amplifier																
EUT M/N:																
Test Target: FCC																
Mode Oper: Transmit @ SIMO mode																
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter													
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
SIMO L ch																
4.864	3.0	53.4	41.7	33.8	3.1	-44.5	0.0	0.6	46.3	34.6	74.0	54.0	-27.7	-19.4	V	
7.296	3.0	50.5	38.5	35.5	3.5	-43.6	0.0	0.6	46.5	34.5	74.0	54.0	-27.5	-19.5	V	
9.728	3.0	48.6	35.7	37.5	3.9	-41.3	0.0	0.8	49.5	36.6	74.0	54.0	-24.5	-17.4	V	
no signal detected																
4.864	3.0	51.4	39.4	33.8	3.1	-44.5	0.0	0.6	44.3	32.3	74.0	54.0	-29.7	-21.7	H	
7.296	3.0	50.7	38.6	35.5	3.5	-43.6	0.0	0.6	46.7	34.6	74.0	54.0	-27.3	-19.4	H	
9.728	3.0	47.5	35.9	37.5	3.9	-41.3	0.0	0.8	48.4	36.9	74.0	54.0	-25.6	-17.1	H	
no signal detected																
4.884	3.0	51.6	40.1	33.8	3.1	-44.6	0.0	0.6	44.5	33.0	74.0	54.0	-29.5	-21.0	H	
7.326	3.0	51.4	38.4	35.5	3.5	-43.6	0.0	0.6	47.5	34.5	74.0	54.0	-26.5	-19.5	H	
9.768	3.0	47.7	35.7	37.5	3.9	-41.1	0.0	0.8	48.8	36.8	74.0	54.0	-25.2	-17.2	H	
no signal detected																
SIMO H ch																
4.884	3.0	54.3	42.1	33.8	3.1	-44.6	0.0	0.6	47.3	35.1	74.0	54.0	-26.7	-18.9	V	
7.326	3.0	50.5	38.4	35.5	3.5	-43.6	0.0	0.6	46.6	34.4	74.0	54.0	-27.4	-19.6	V	
9.768	3.0	46.9	35.6	37.5	3.9	-41.1	0.0	0.8	48.0	36.7	74.0	54.0	-26.0	-17.3	V	
no signal detected																

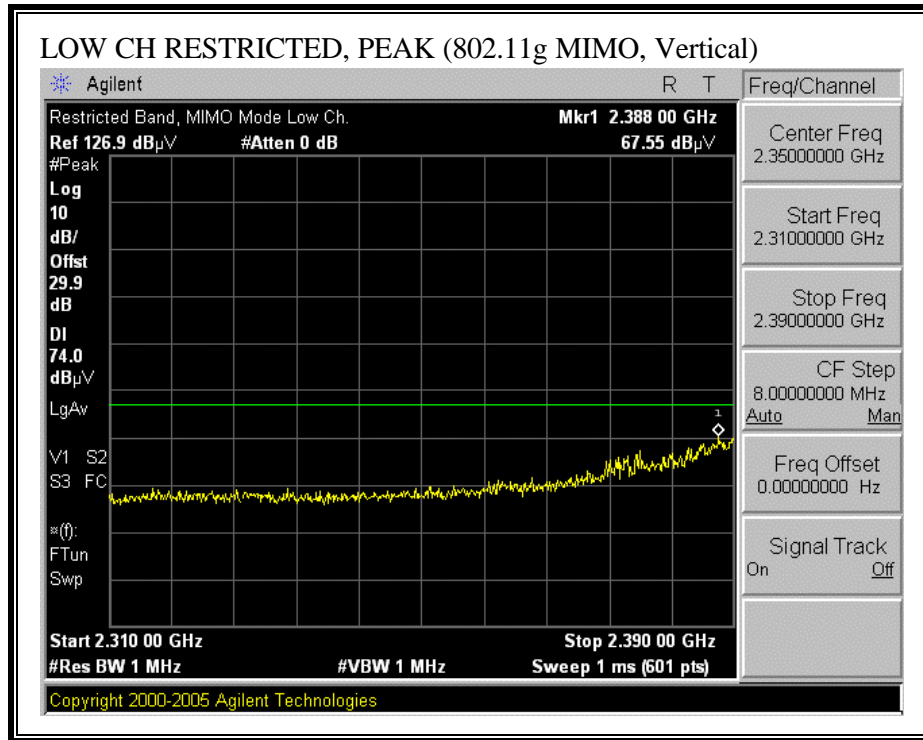


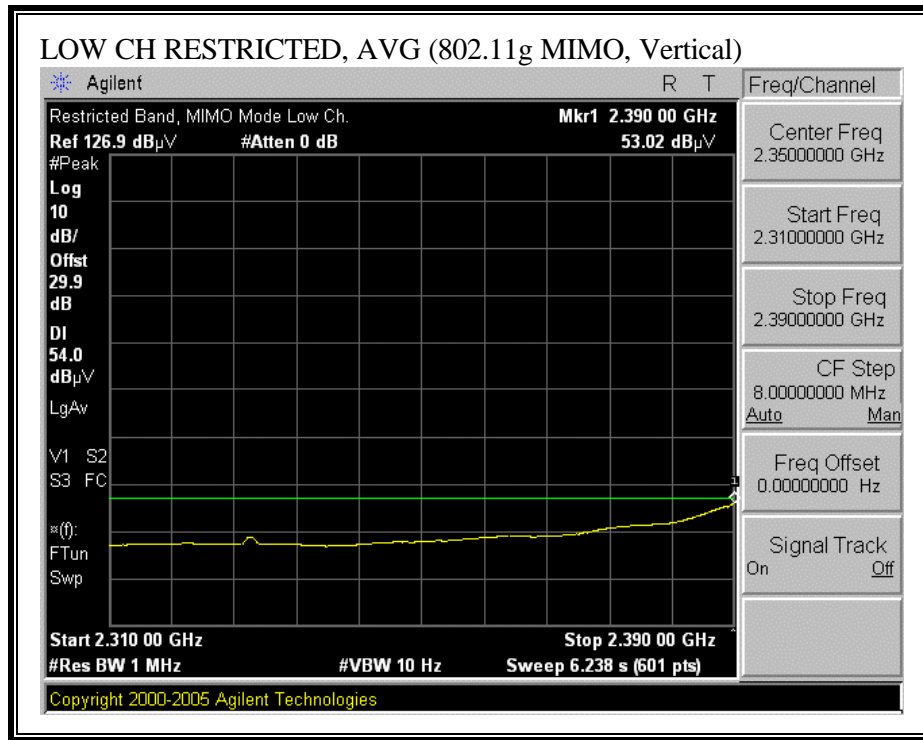
**RESTRICTED BANDEDGE (MIMO MODE, LOW CHANNEL, HORIZONTAL)**



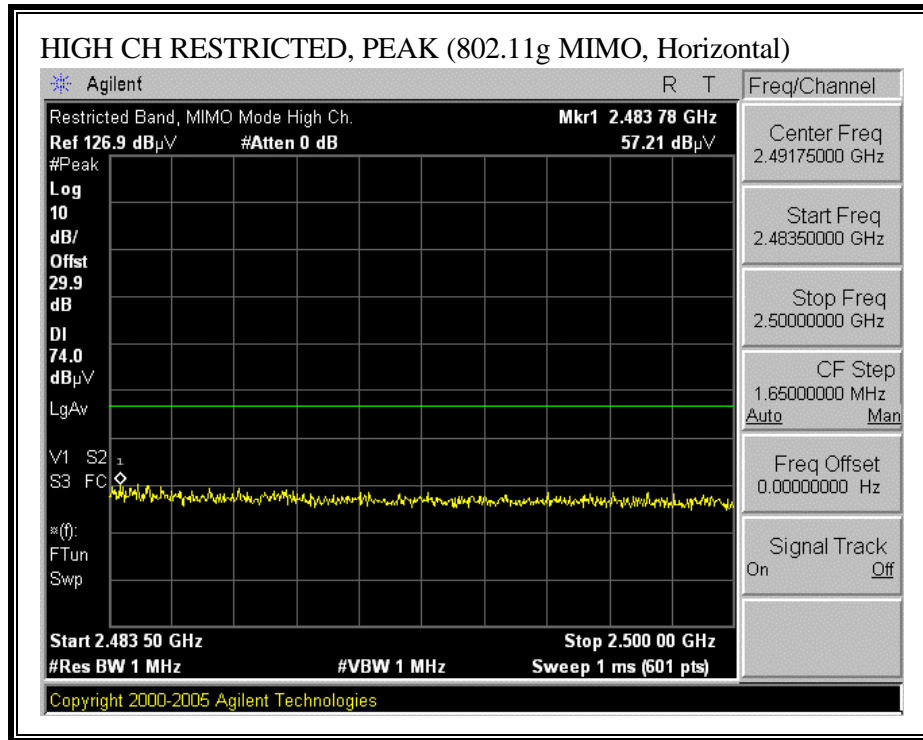


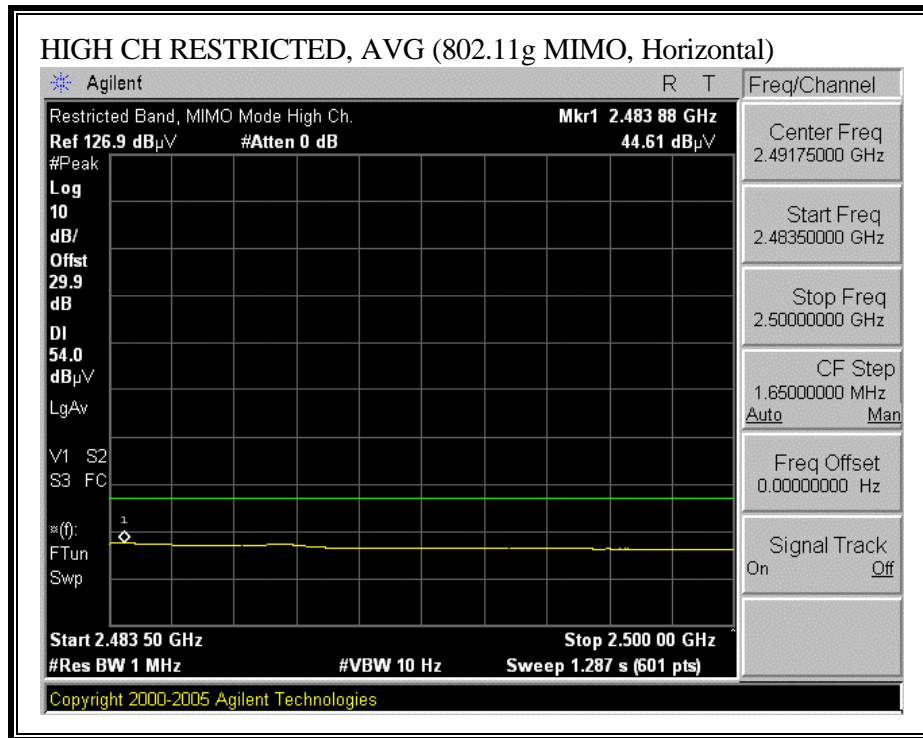
**RESTRICTED BANDEDGE (MIMO MODE, LOW CHANNEL, VERTICAL)**



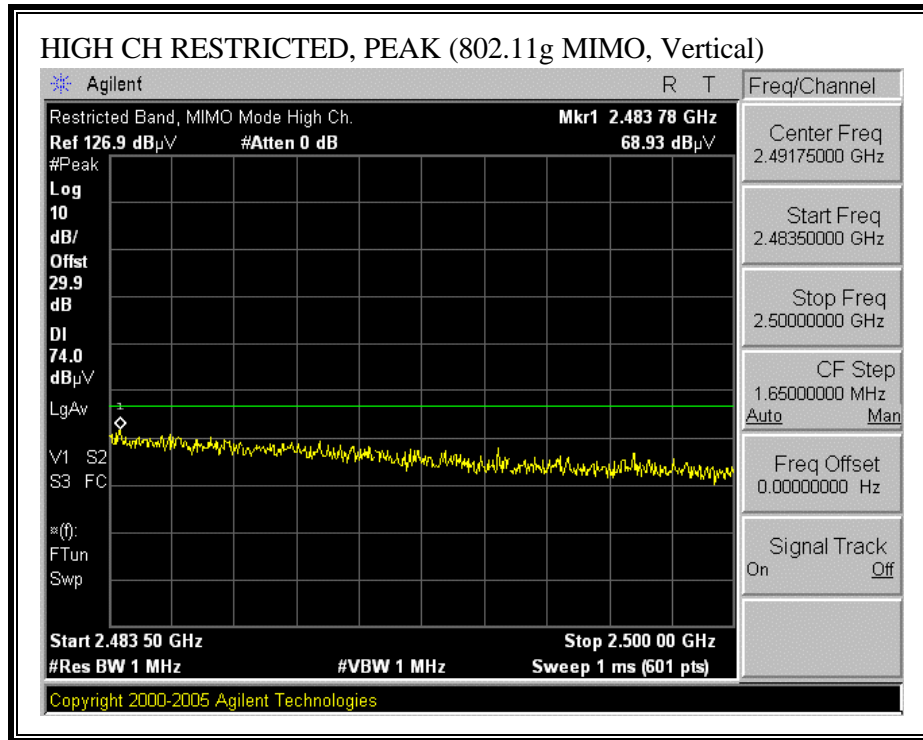


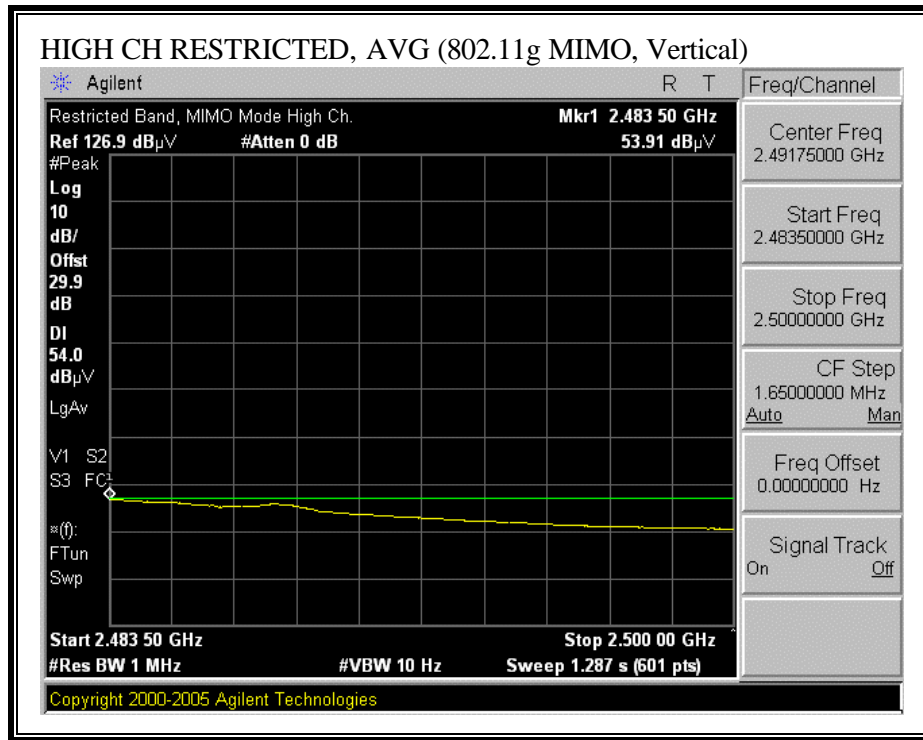
**RESTRICTED BANDEDGE (MIMO MODE, HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (MIMO, HIGH CHANNEL, VERTICAL)**





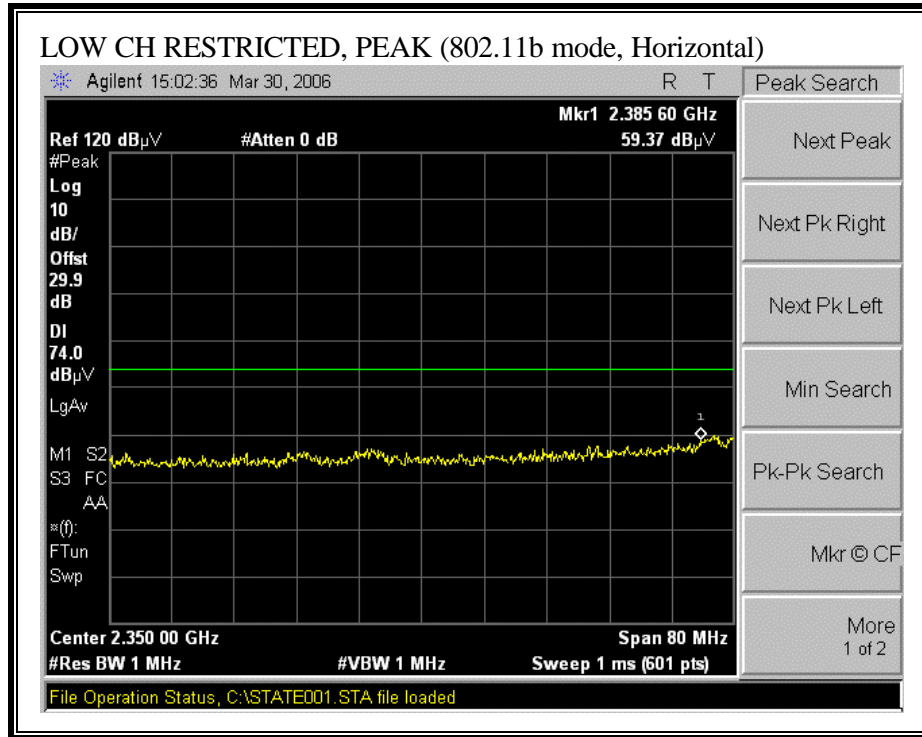


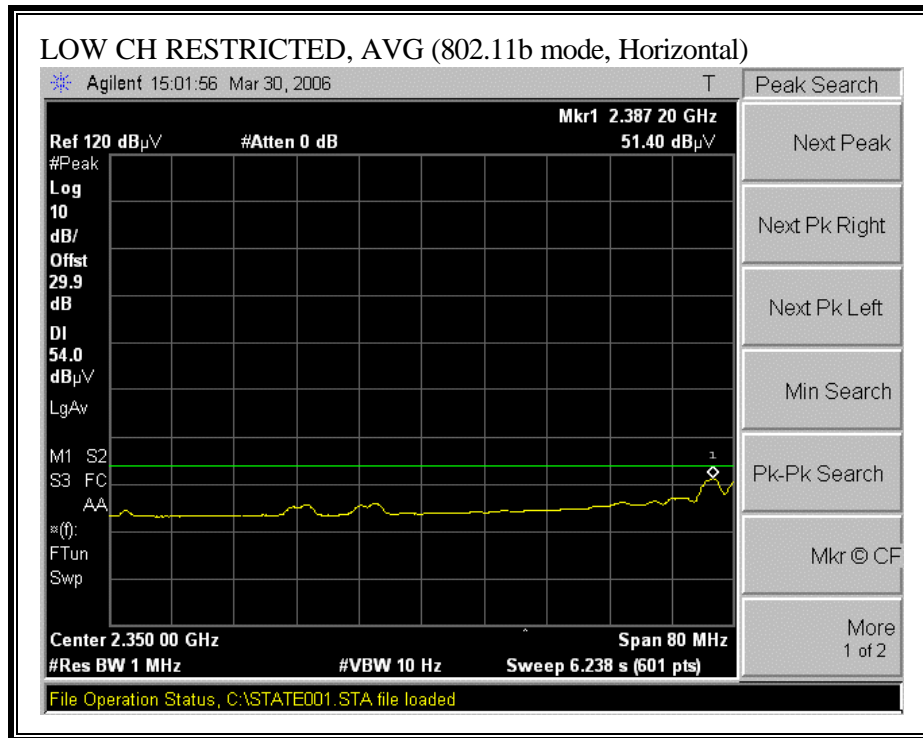
**HARMONICS AND SPURIOUS EMISSIONS (MIMO MODE)**

04/10/06 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Test Engr: Ninous Davoudi															
Project #: 06U10181															
Company: Airgo															
EUT Descrip.: 2x2 mPCI Board with RFMD Power Amplifier															
EUT M/N:															
Test Target: FCC															
Mode Oper: Transmit g mode															
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss			HPF	High Pass Filter										
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	Filtr	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz	(m)	dBuV	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	(V/H)
<b>g mode L ch</b>															
4.824	3.0	54.8	48.0	33.7	3.1	-44.5	0.0	0.6	47.7	40.9	74.0	54.0	-26.3	-13.1	V
7.236	3.0	51.2	39.3	35.4	3.5	-43.7	0.0	0.6	47.1	35.2	74.0	54.0	-26.9	-18.8	V
9.648	3.0	48.2	36.2	37.5	3.9	-41.5	0.0	0.8	48.9	36.8	74.0	54.0	-25.1	-17.2	V
no signal detected above this frequency															
4.824	3.0	51.3	41.7	33.7	3.1	-44.5	0.0	0.6	44.2	34.6	74.0	54.0	-29.8	-19.4	H
7.236	3.0	50.2	38.8	35.4	3.5	-43.7	0.0	0.6	46.0	34.6	74.0	54.0	-28.0	-19.4	H
9.648	3.0	47.4	36.2	37.5	3.9	-41.5	0.0	0.8	48.1	36.8	74.0	54.0	-25.9	-17.2	H
no signal detected above this frequency															
<b>g mode M ch</b>															
4.874	3.0	43.0	31.1	34.0	3.0	-34.9	0.0	0.6	45.7	33.8	74	54	-28.3	-20.2	H
7.311	3.0	44.5	32.8	35.9	4.2	-34.7	0.0	0.6	50.5	38.8	74	54	-23.5	-15.2	H
9.748	3.0	43.0	31.5	37.7	4.7	-35.0	0.0	0.8	51.2	39.7	74	54	-22.8	-14.3	H, NOISE FLOOR
no signal detected above this frequency															
4.874	3.0	43.3	31.6	34.0	3.0	-34.9	0.0	0.6	46.0	34.3	74	54	-28.0	-19.7	V
7.311	3.0	47.6	36.3	35.9	4.2	-34.7	0.0	0.6	53.6	42.3	74	54	-20.4	-11.7	V
9.748	3.0	43.9	31.8	37.7	4.7	-35.0	0.0	0.8	52.1	40.0	74	54	-21.9	-14.0	V, NOISE FLOOR
no signal detected above this frequency															
<b>g mode H ch</b>															
4.924	3.0	52.8	41.6	33.8	3.1	-44.6	0.0	0.6	45.8	34.6	74.0	54.0	-28.2	-19.4	H
7.386	3.0	49.9	38.4	35.6	3.5	-43.6	0.0	0.6	46.1	34.6	74.0	54.0	-27.9	-19.4	H
9.848	3.0	46.9	35.7	37.6	3.9	-40.9	0.0	0.8	48.3	37.1	74.0	54.0	-25.7	-16.9	H
no signal detected above this frequency															
4.924	3.0	55.0	43.0	33.8	3.1	-44.6	0.0	0.6	48.0	36.0	74.0	54.0	-26.0	-18.0	V
7.386	3.0	50.2	38.4	35.6	3.5	-43.6	0.0	0.6	46.4	34.7	74.0	54.0	-27.6	-19.3	V
9.848	3.0	46.9	35.7	37.6	3.9	-40.9	0.0	0.8	48.2	37.1	74.0	54.0	-25.8	-16.9	V
no signal detected above this frequency															

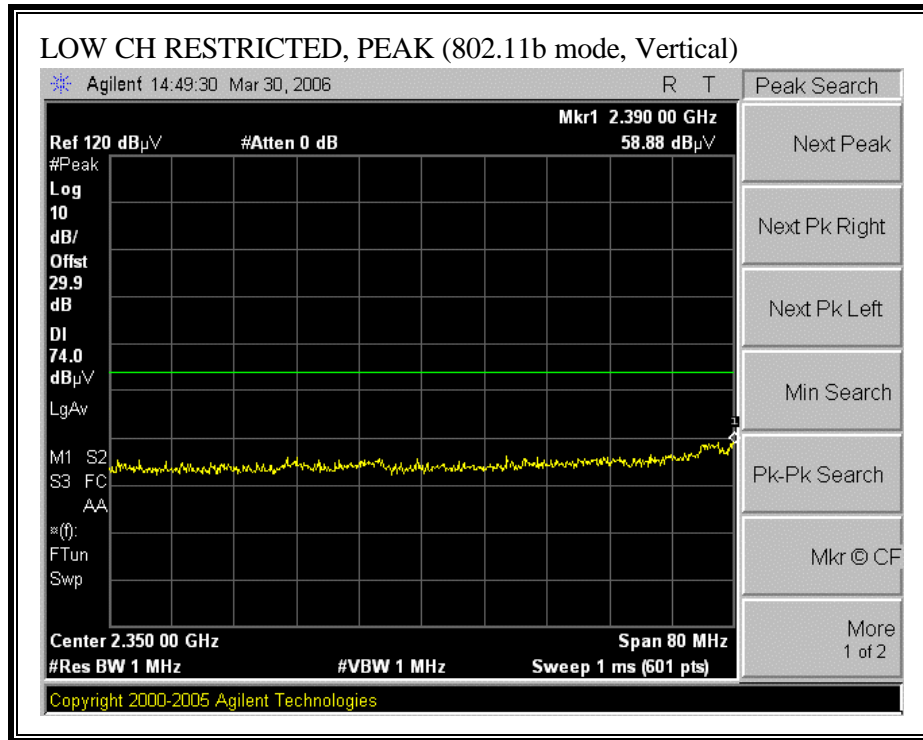
### 7.2.3. TRANSMITTER ABOVE 1 GHz - WITH PC ANTENNAS

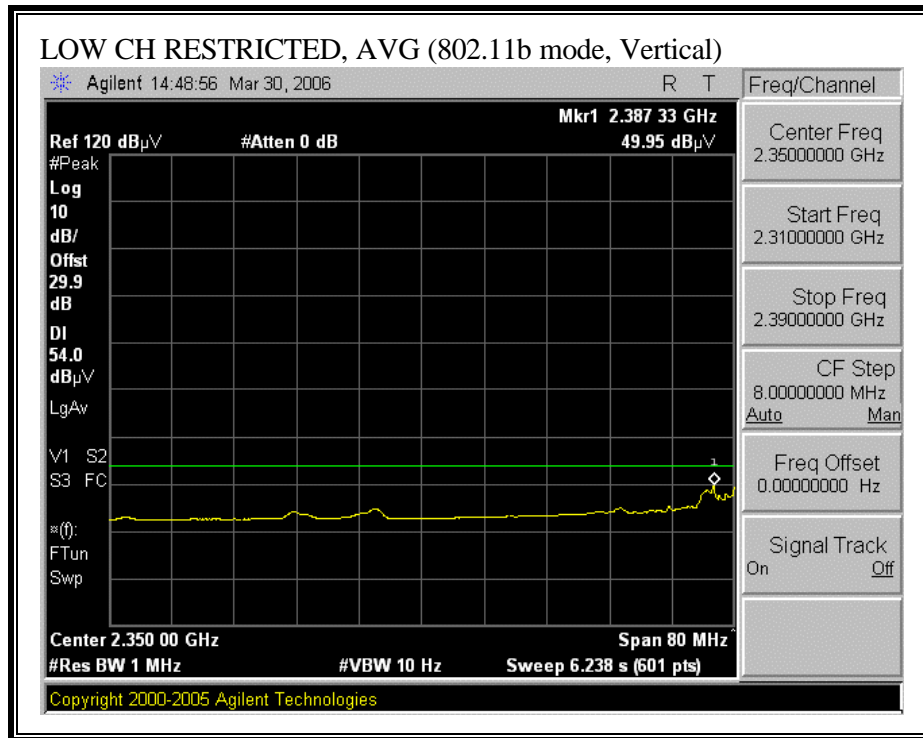
#### RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



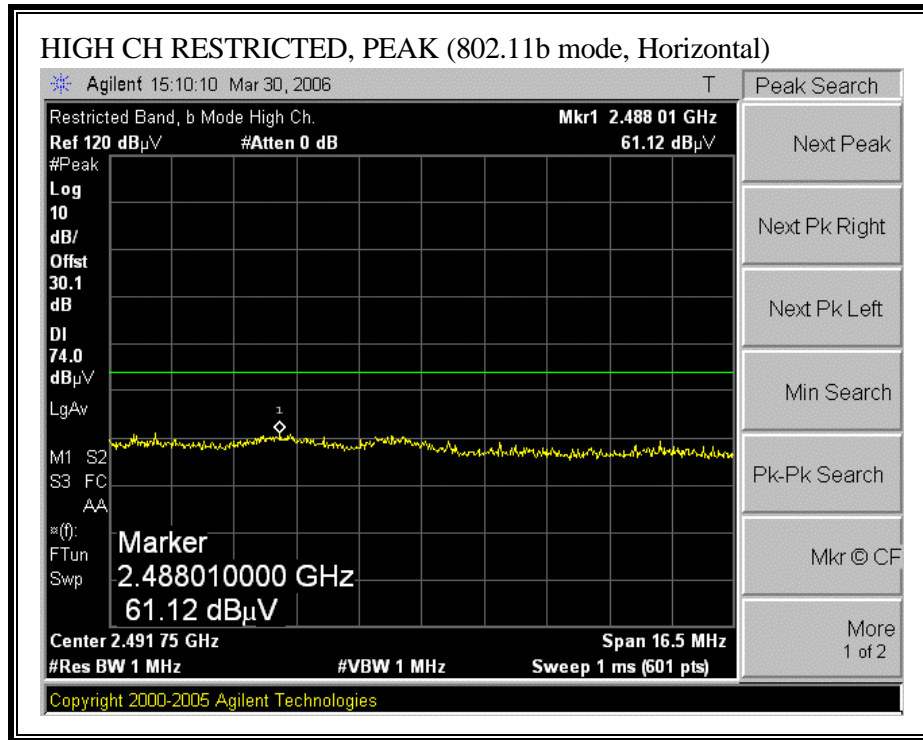


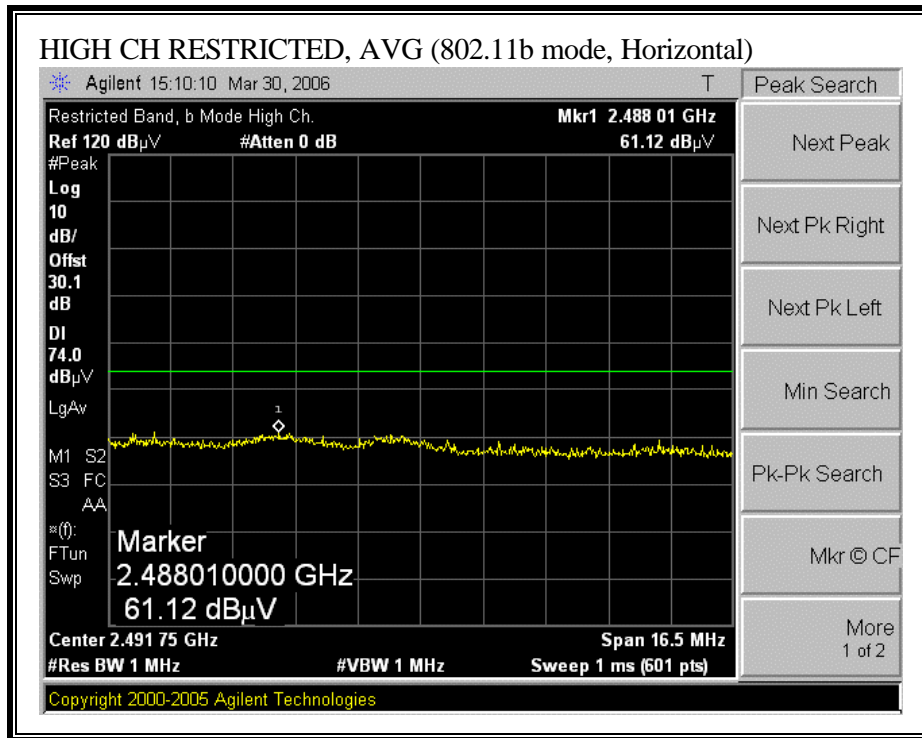
**RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)**



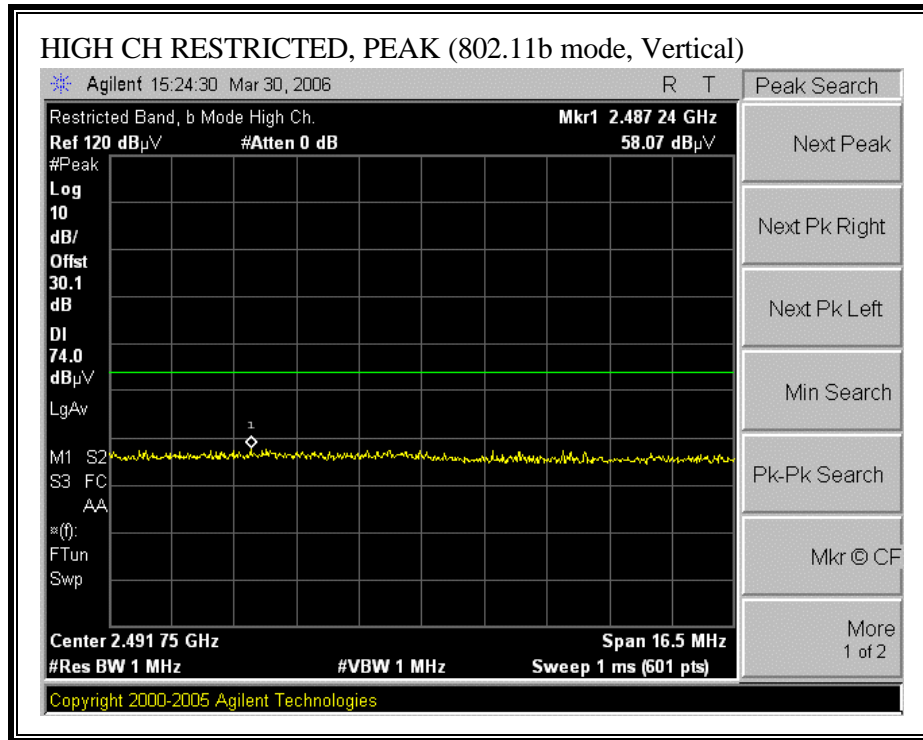


**RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)**

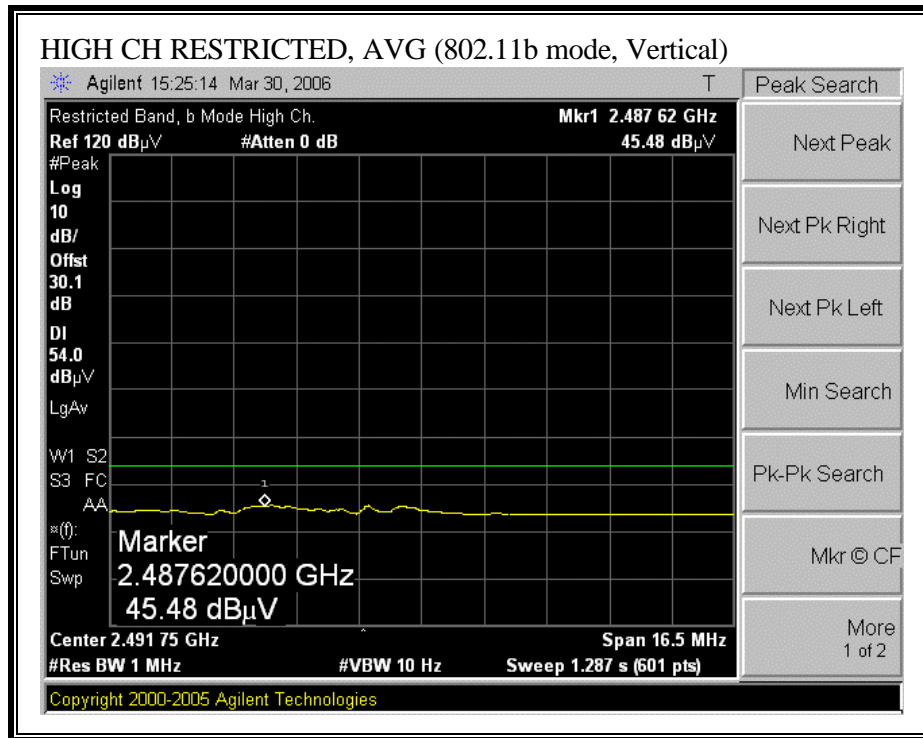




**RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)**







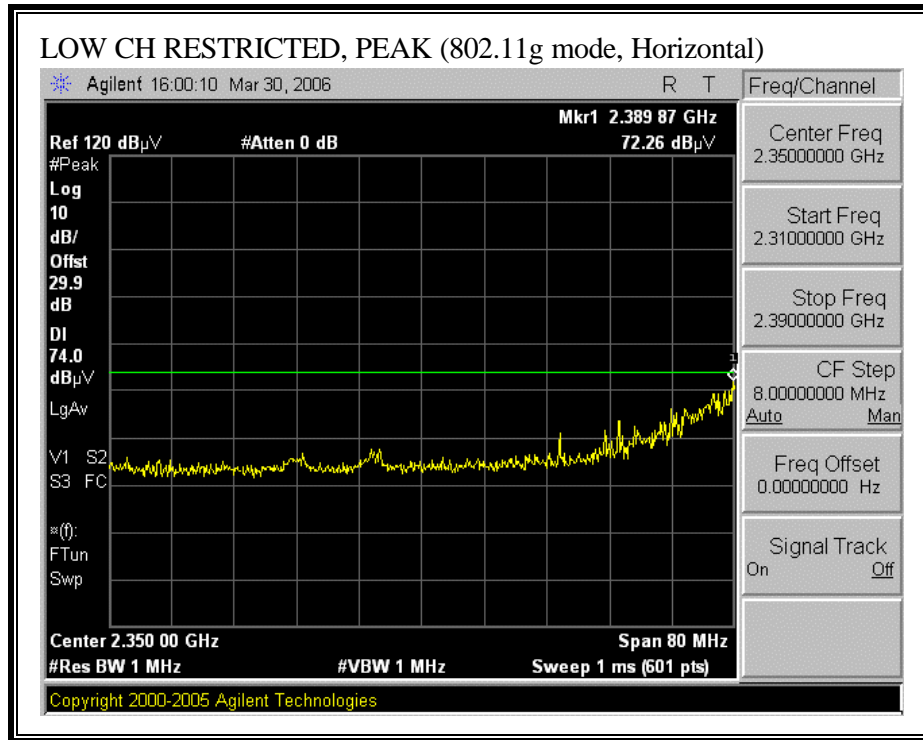
**HARMONICS AND SPURIOUS EMISSIONS (b MODE)**

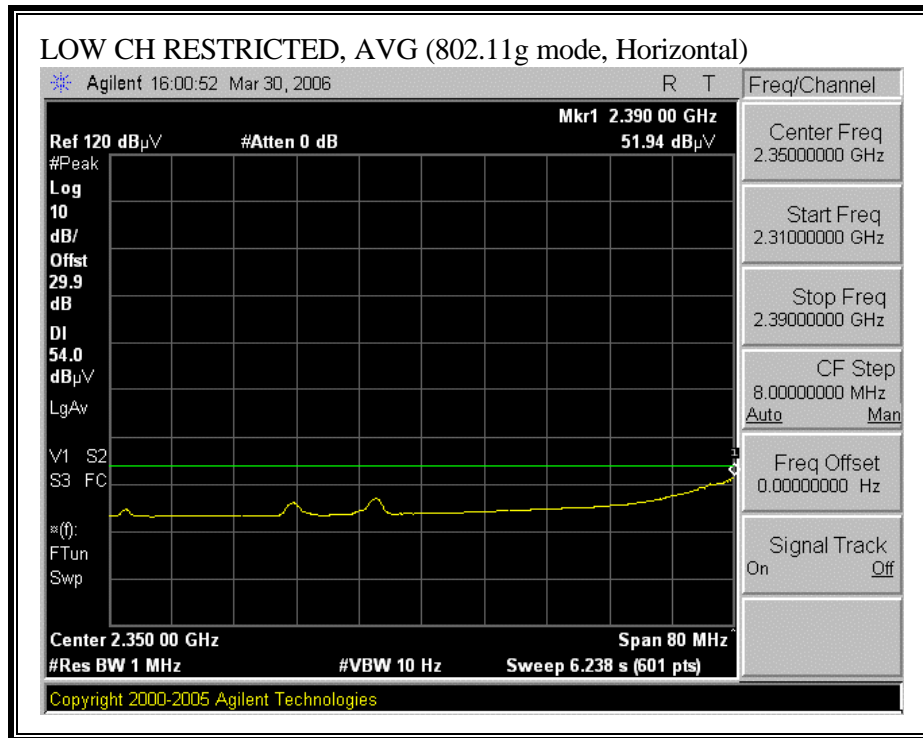
03/30/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site A															
Test Engineer:		Alvin Ilarina													
Project #:		06U10181													
Company:		Airgo													
EUT Description:		2x2													
Mode Of Operation:		Transmit with PC Antennas													
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
4.824	3.0	45.5	42.7	33.7	3.1	-34.8	0.0	0.6	48.1	45.3	74	54	-25.9	-8.7	V - Low
7.236	3.0	38.4	30.0	35.4	3.5	-34.1	0.0	0.6	43.7	35.3	74	54	-30.3	-18.7	V - Low
9.648	3.0	39.1	31.2	37.5	3.8	-33.6	0.0	0.8	47.6	39.7	74	54	-26.4	-14.3	V - Low
4.824	3.0	42.7	34.1	33.7	3.1	-34.8	0.0	0.6	45.3	36.7	74	54	-28.7	-17.3	H - Low
7.236	3.0	37.8	29.9	35.4	3.5	-34.1	0.0	0.6	43.1	35.2	74	54	-30.9	-18.8	H - Low
9.648	3.0	38.8	30.8	37.5	3.8	-33.6	0.0	0.8	47.3	39.3	74	54	-26.7	-14.7	H - Low
4.874	3.0	51.6	49.3	33.8	3.1	-34.8	0.0	0.6	54.3	52.0	74	54	-19.7	-2.0	V
7.311	3.0	47.1	39.2	35.5	3.5	-34.1	0.0	0.6	52.6	44.7	74	54	-21.4	-9.3	V
9.748	3.0	44.0	35.0	37.5	3.8	-33.3	0.0	0.8	52.9	43.9	74	54	-21.1	-10.1	V, NOISE FLOOR
4.874	3.0	53.1	50.7	33.8	3.1	-34.8	0.0	0.6	55.8	53.4	74	54	-18.2	-0.6	H
7.311	3.0	50.3	44.9	35.5	3.5	-34.1	0.0	0.6	55.8	50.4	74	54	-18.2	-3.6	H
9.748	3.0	46.9	39.3	37.5	3.8	-33.3	0.0	0.8	55.8	48.2	74	54	-18.2	-5.8	H, NOISE FLOOR
4.924	3.0	42.3	32.2	33.8	3.1	-34.8	0.0	0.6	45.1	35.0	74	54	-28.9	-19.0	V - Hi
7.386	3.0	39.5	29.9	35.6	3.5	-34.1	0.0	0.6	45.2	35.6	74	54	-28.8	-18.4	V - Hi
9.848	3.0	39.1	32.0	37.6	3.8	-33.1	0.0	0.8	48.3	41.2	74	54	-25.7	-12.8	V - Hi
4.924	3.0	41.5	28.9	33.8	3.1	-34.8	0.0	0.6	44.3	31.7	74	54	-29.7	-22.3	H - Hi
7.386	3.0	39.1	29.5	35.6	3.5	-34.1	0.0	0.6	44.8	35.2	74	54	-29.2	-18.8	H - Hi
9.848	3.0	38.8	30.9	37.6	3.8	-33.1	0.0	0.8	48.0	40.1	74	54	-26.0	-13.9	H - Hi

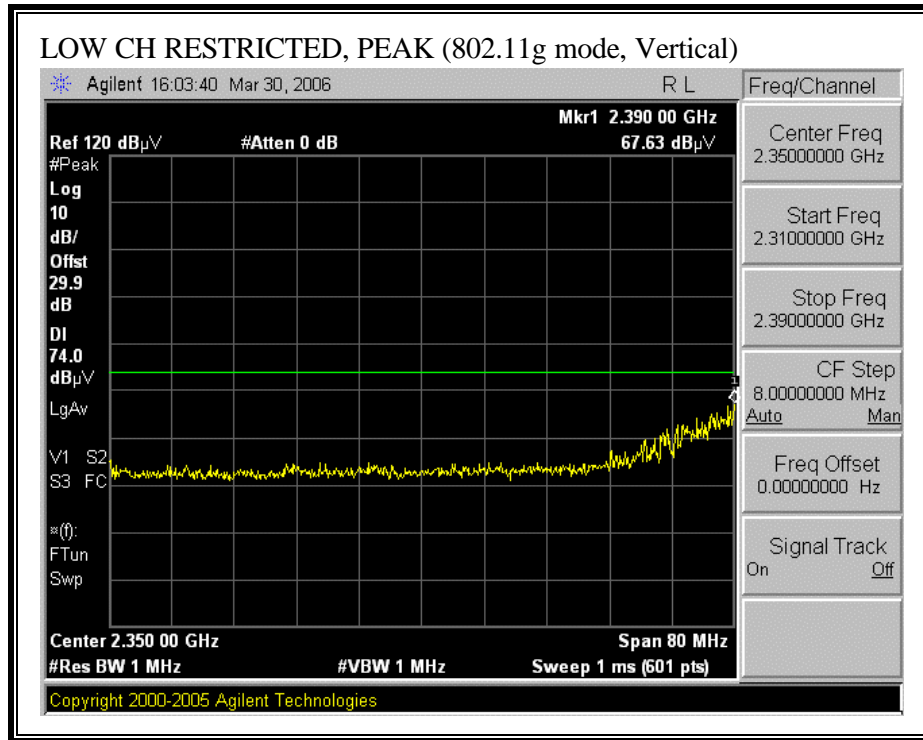
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

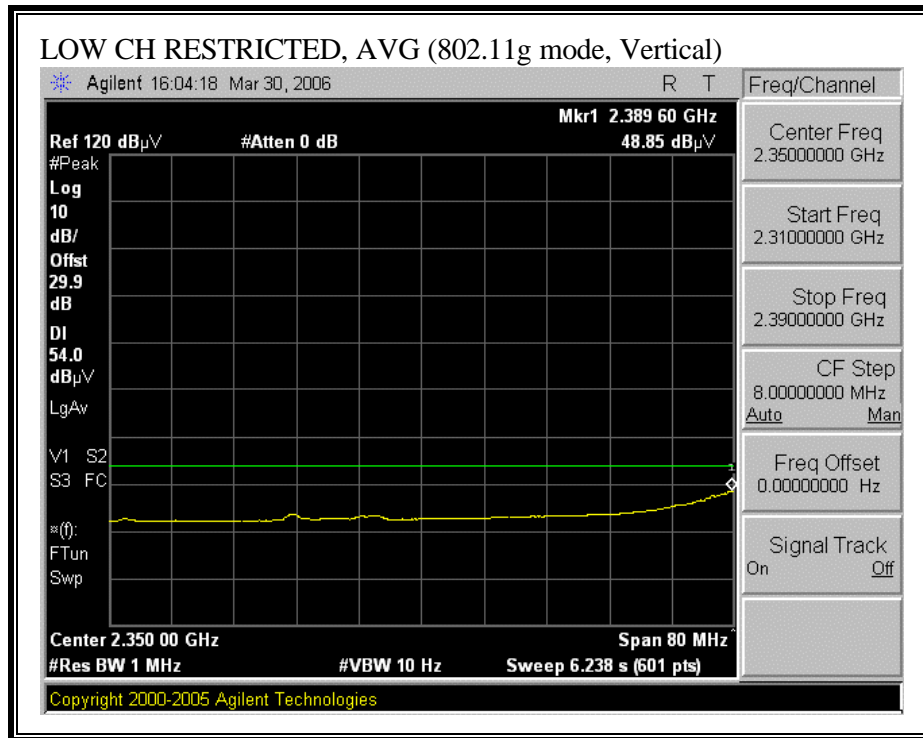
**RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)**



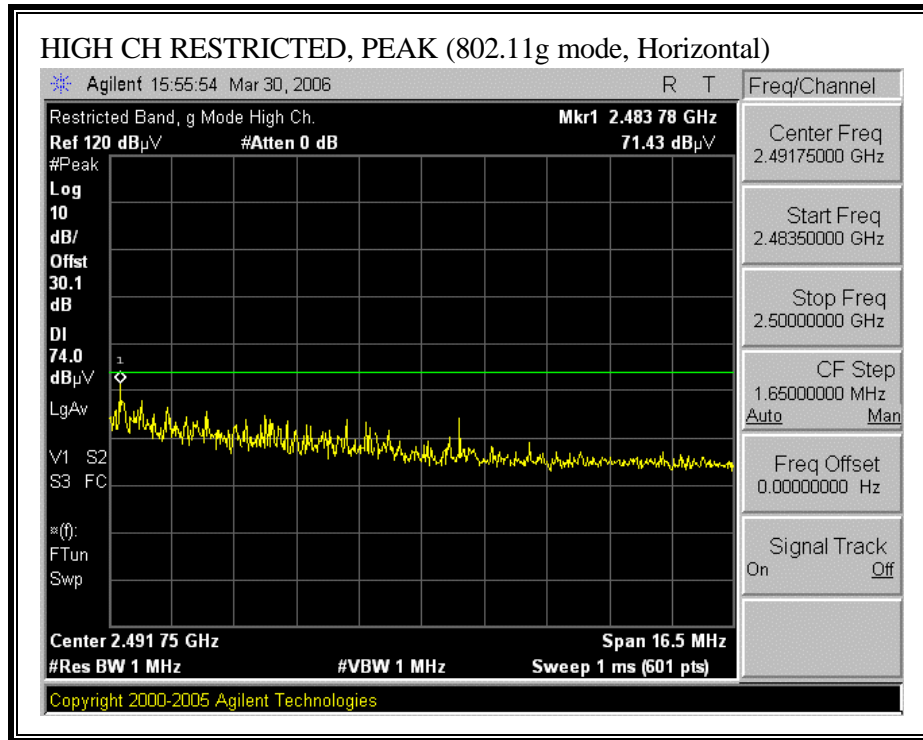


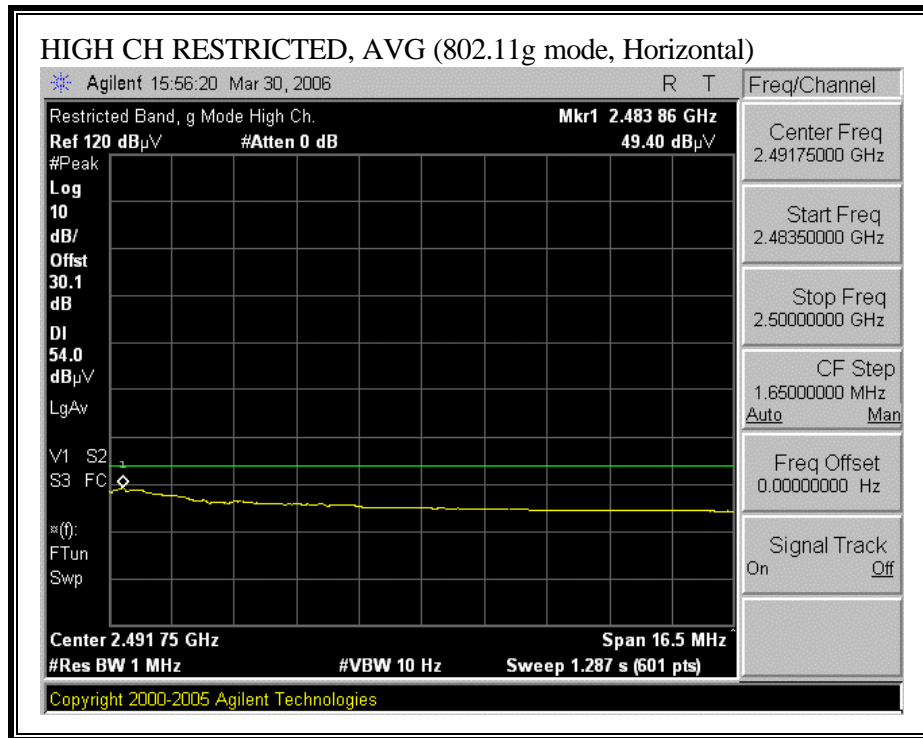
**RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)**





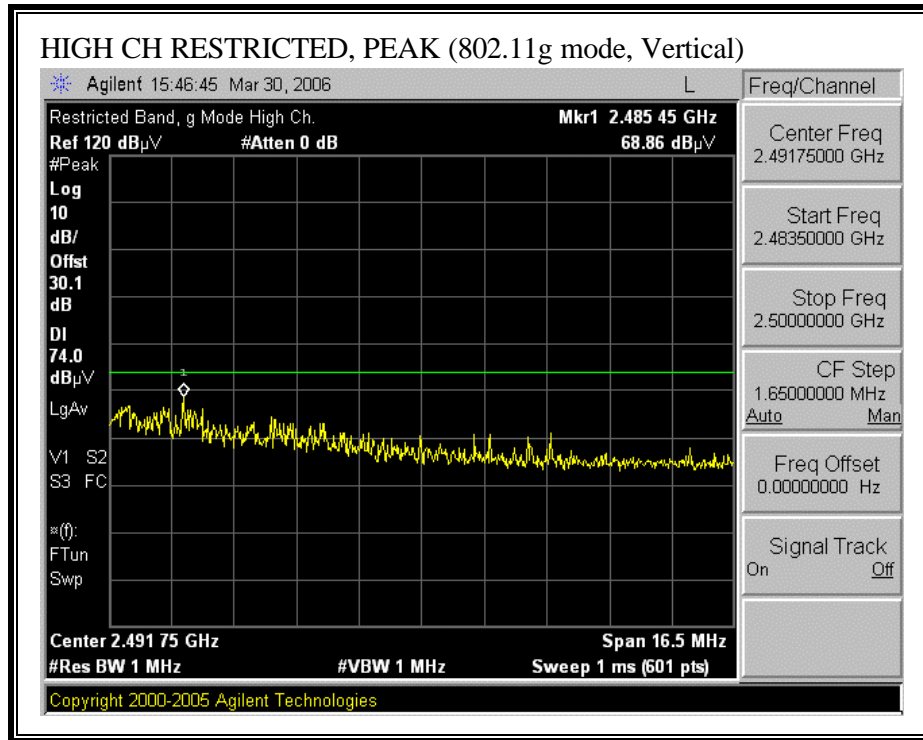
**RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)**

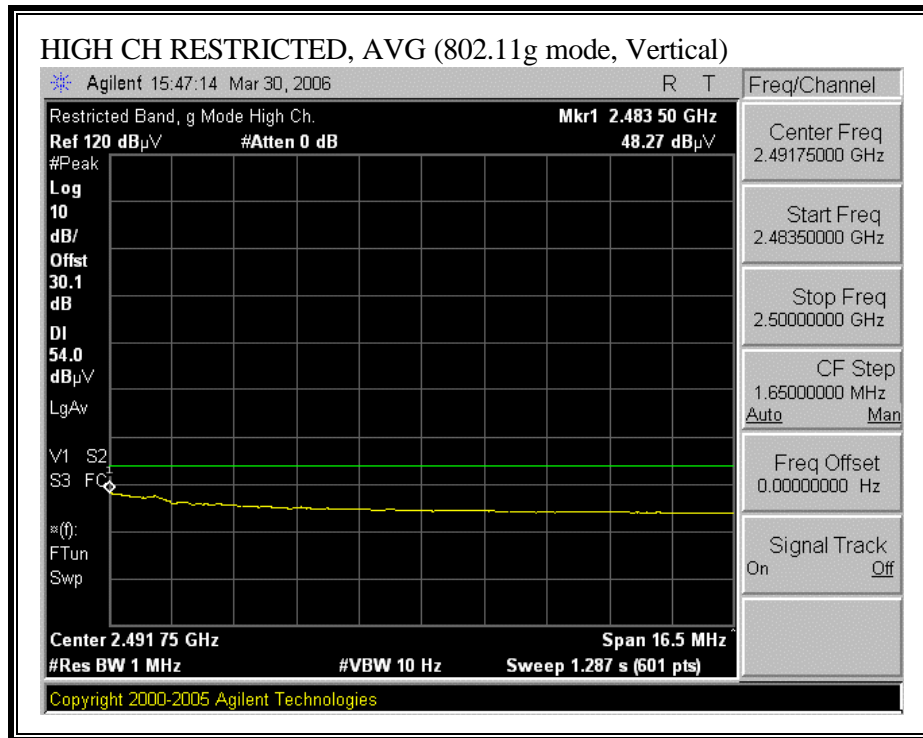






**RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)**





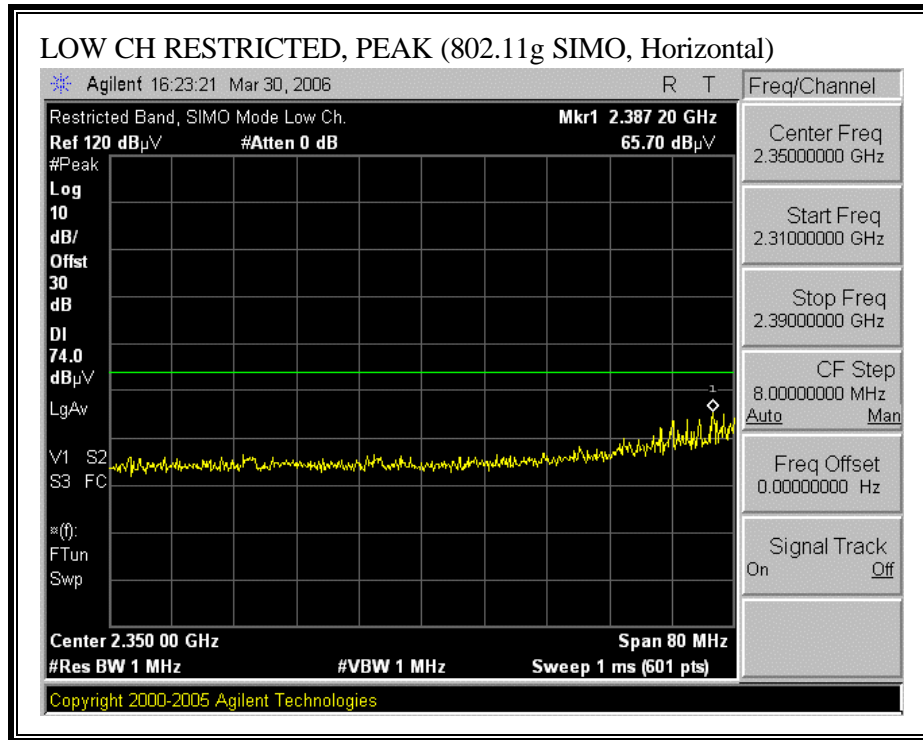
**HARMONICS AND SPURIOUS EMISSIONS (g MODE)**

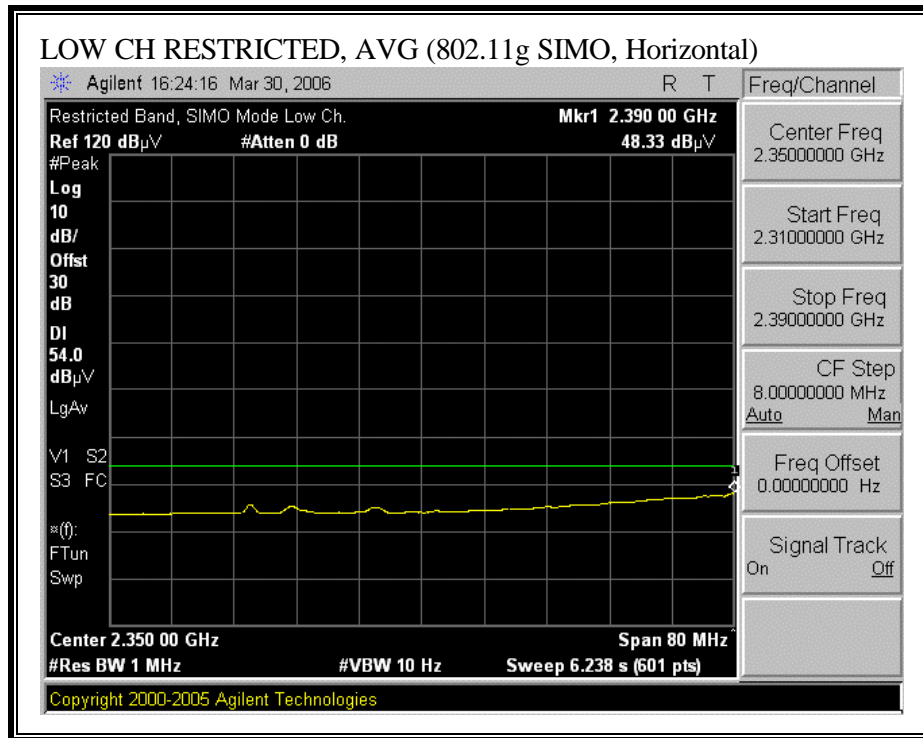
03/30/06 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site A															
Test Engineer:		Alvin Ilarina													
Project #:		06U10181													
Company:		Airgo													
EUT Description:		2x2													
Mode Of Operation:		Transmit with PC Antennas													
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
4.824	3.0	44.9	41.2	33.7	3.1	-34.8	0.0	0.6	47.5	43.8	74	54	-26.5	-10.2	V - Low
7.236	3.0	37.6	29.7	35.4	3.5	-34.1	0.0	0.6	42.9	35.0	74	54	-31.1	-19.0	V - Low
9.648	3.0	38.9	30.8	37.5	3.8	-33.6	0.0	0.8	47.4	39.3	74	54	-26.6	-14.7	V - Low
4.824	3.0	41.9	34.5	33.7	3.1	-34.8	0.0	0.6	44.5	37.1	74	54	-29.5	-16.9	H - Low
7.236	3.0	38.1	29.6	35.4	3.5	-34.1	0.0	0.6	43.4	34.9	74	54	-30.6	-19.1	H - Low
9.648	3.0	38.9	31.2	37.5	3.8	-33.6	0.0	0.8	47.4	39.7	74	54	-26.6	-14.3	H - Low
4.874	3.0	45.8	35.1	33.8	3.1	-34.8	0.0	0.6	48.5	37.8	74	54	-25.5	-16.2	V
7.311	3.0	50.5	38.8	35.5	3.5	-34.1	0.0	0.6	56.0	44.3	74	54	-18.0	-9.7	V
9.748	3.0	45.0	33.0	37.5	3.8	-33.3	0.0	0.8	53.9	41.9	74	54	-20.1	-12.1	V, NOISE FLOOR
4.874	3.0	48.4	37.2	33.8	3.1	-34.8	0.0	0.6	51.1	39.9	74	54	-22.9	-14.1	H
7.311	3.0	47.9	36.4	35.5	3.5	-34.1	0.0	0.6	53.4	41.9	74	54	-20.6	-12.1	H
9.748	3.0	42.0	32.0	37.5	3.8	-33.3	0.0	0.8	50.9	40.9	74	54	-23.1	-13.1	H, NOISE FLOOR
4.924	3.0	42.6	31.8	33.8	3.1	-34.8	0.0	0.6	45.4	34.6	74	54	-28.6	-19.4	V - Hi
7.386	3.0	39.2	28.5	35.6	3.5	-34.1	0.0	0.6	44.9	34.2	74	54	-29.1	-19.8	V - Hi
9.848	3.0	39.4	31.7	37.6	3.8	-33.1	0.0	0.8	48.6	40.9	74	54	-25.4	-13.1	V - Hi
4.924	3.0	42.4	29.3	33.8	3.1	-34.8	0.0	0.6	45.2	32.1	74	54	-28.8	-21.9	H - Hi
7.386	3.0	38.2	28.6	35.6	3.5	-34.1	0.0	0.6	43.9	34.3	74	54	-30.1	-19.7	H - Hi
9.848	3.0	38.1	29.6	37.6	3.8	-33.1	0.0	0.8	47.3	38.8	74	54	-26.7	-15.2	H - Hi

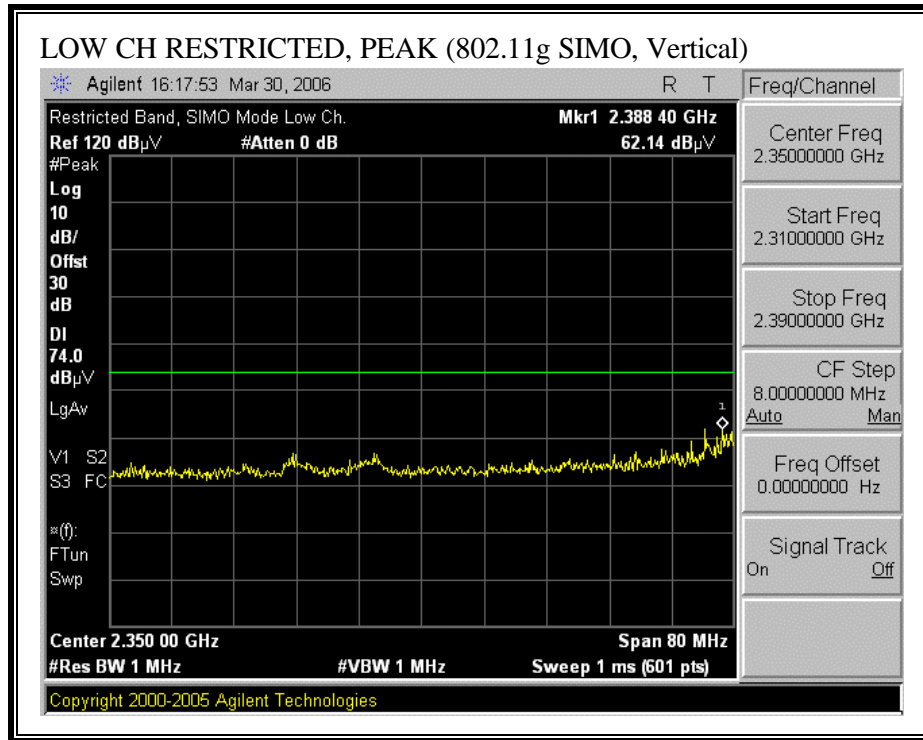
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

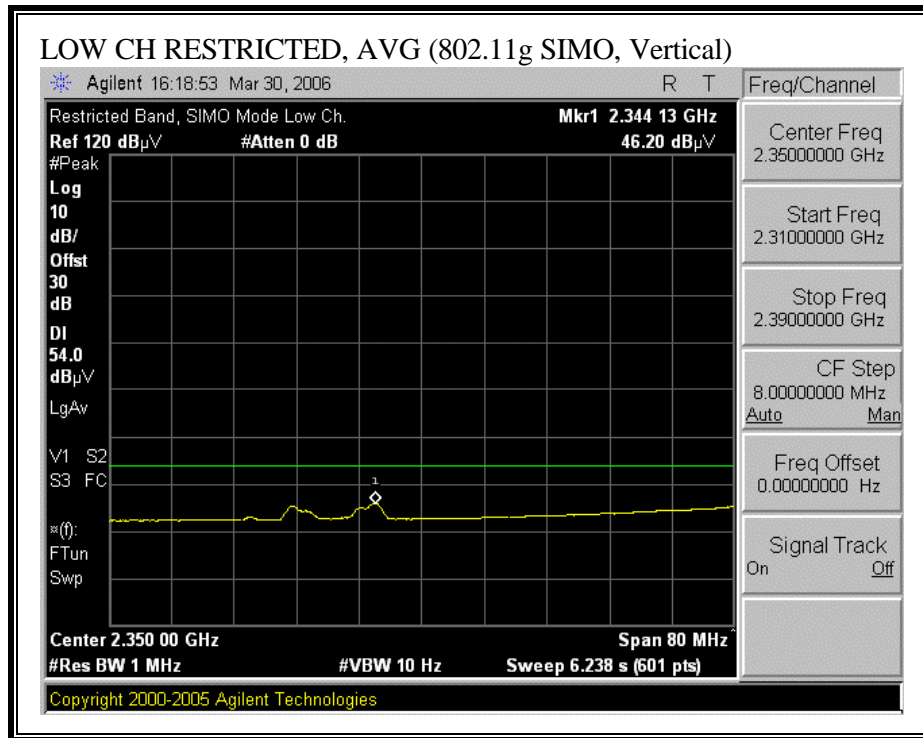
**RESTRICTED BANDEDGE (SIMO MODE, LOW CHANNEL, HORIZONTAL)**



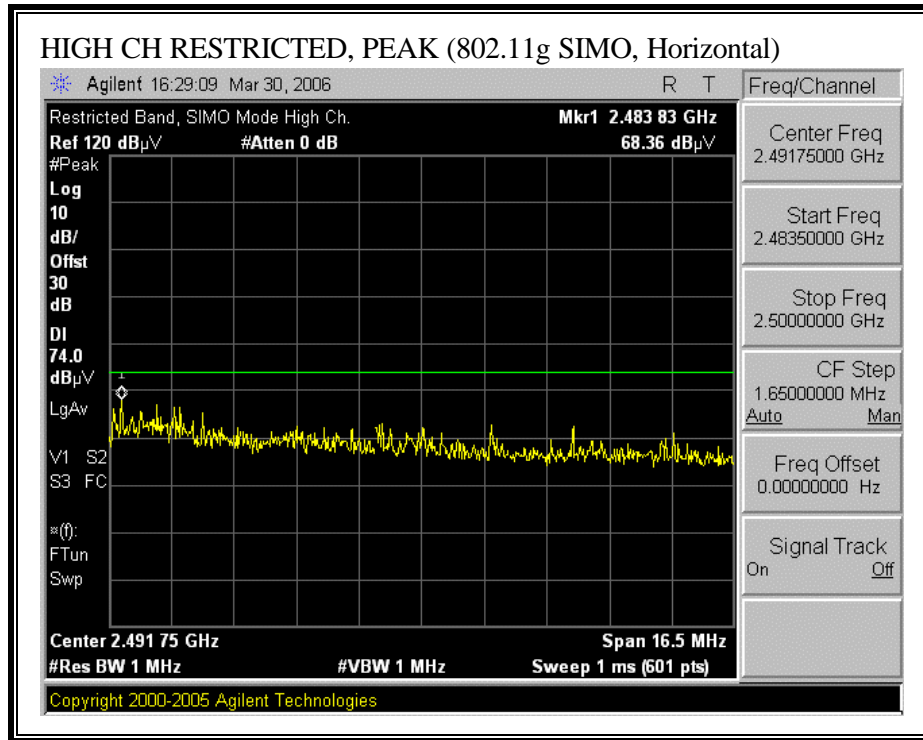


**RESTRICTED BANDEDGE (SIMO MODE, LOW CHANNEL, VERTICAL)**

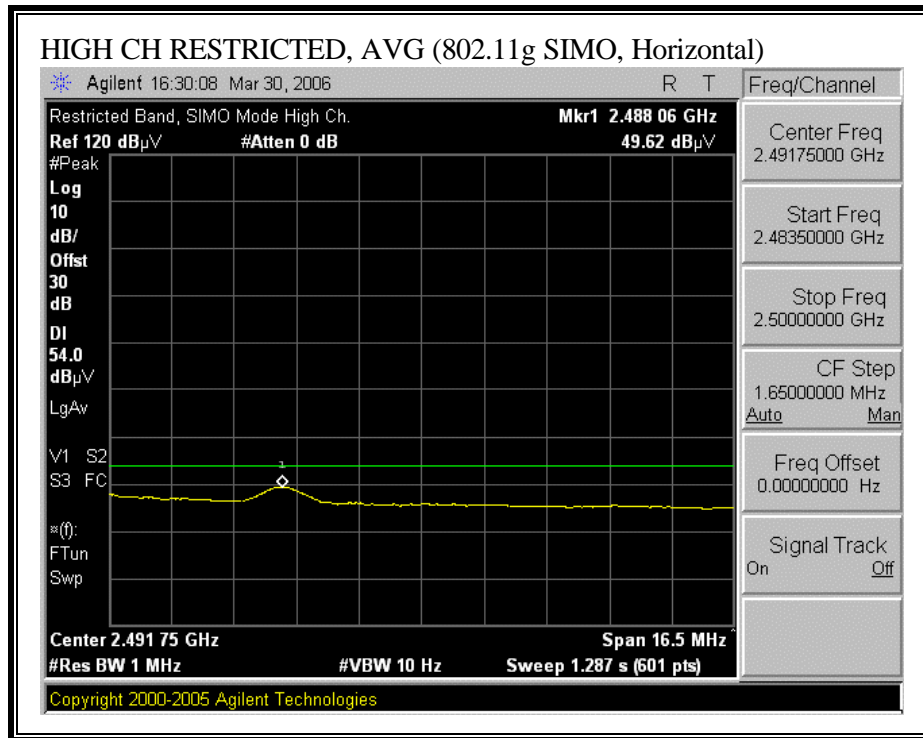




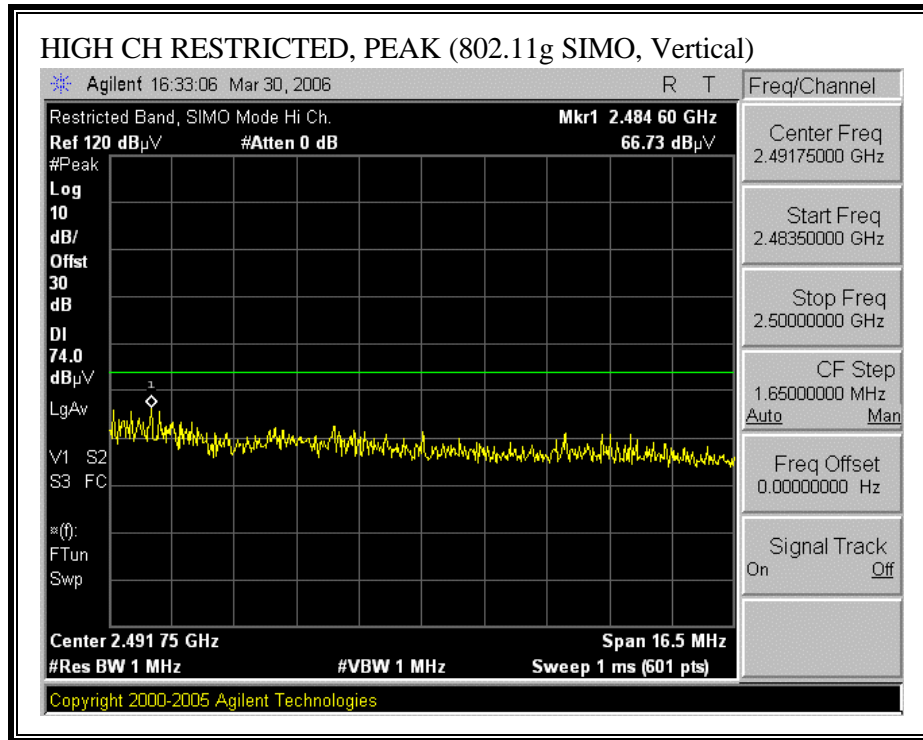
**RESTRICTED BANDEDGE (SIMO MODE, HIGH CHANNEL, HORIZONTAL)**

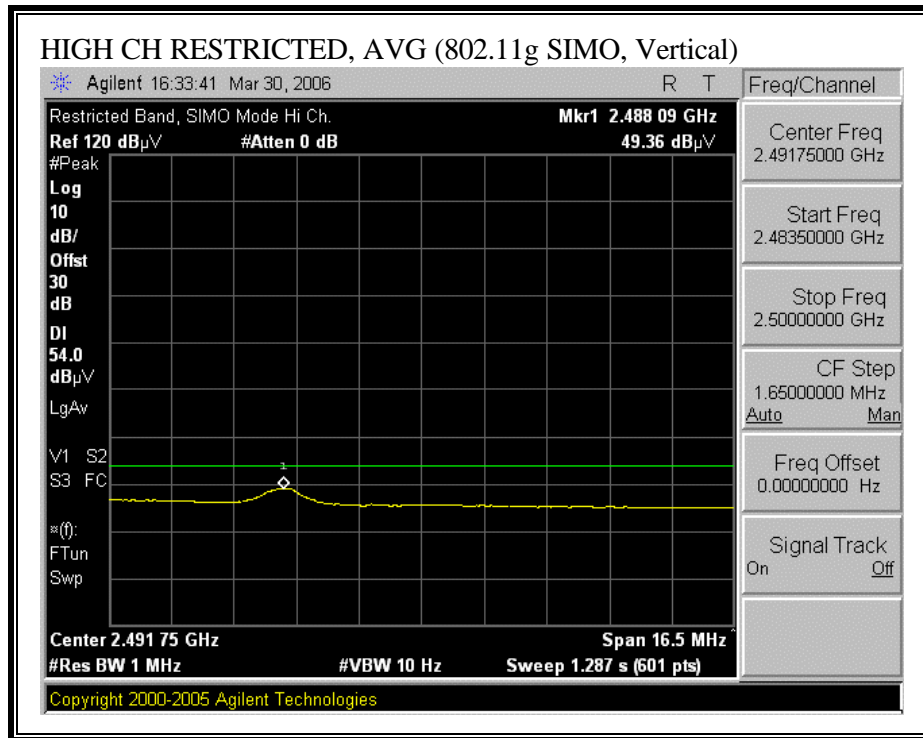






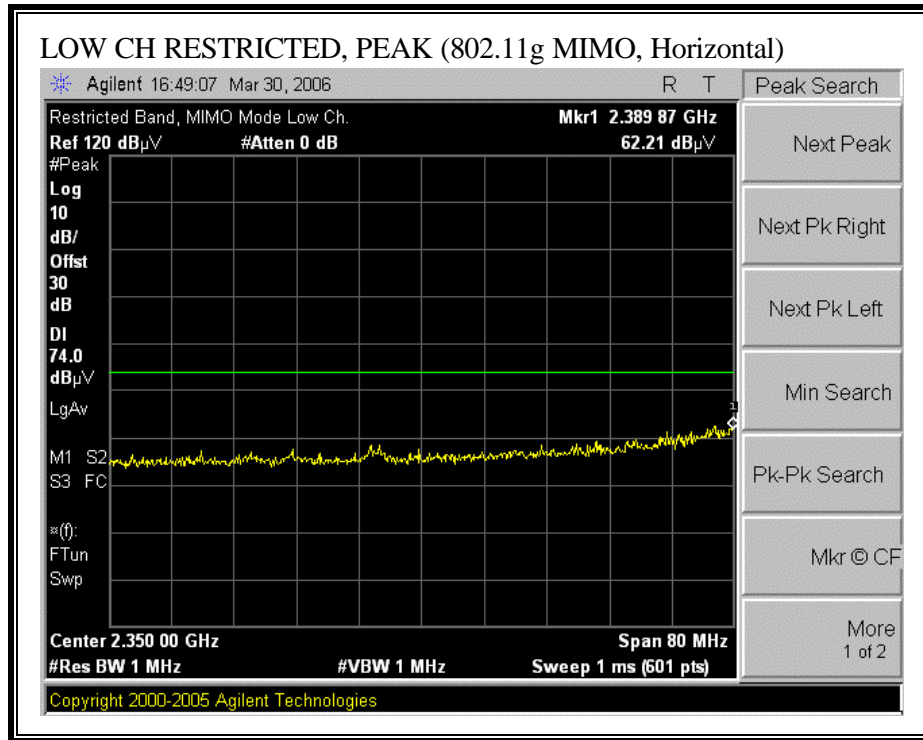
**RESTRICTED BANDEDGE (SIMO, HIGH CHANNEL, VERTICAL)**

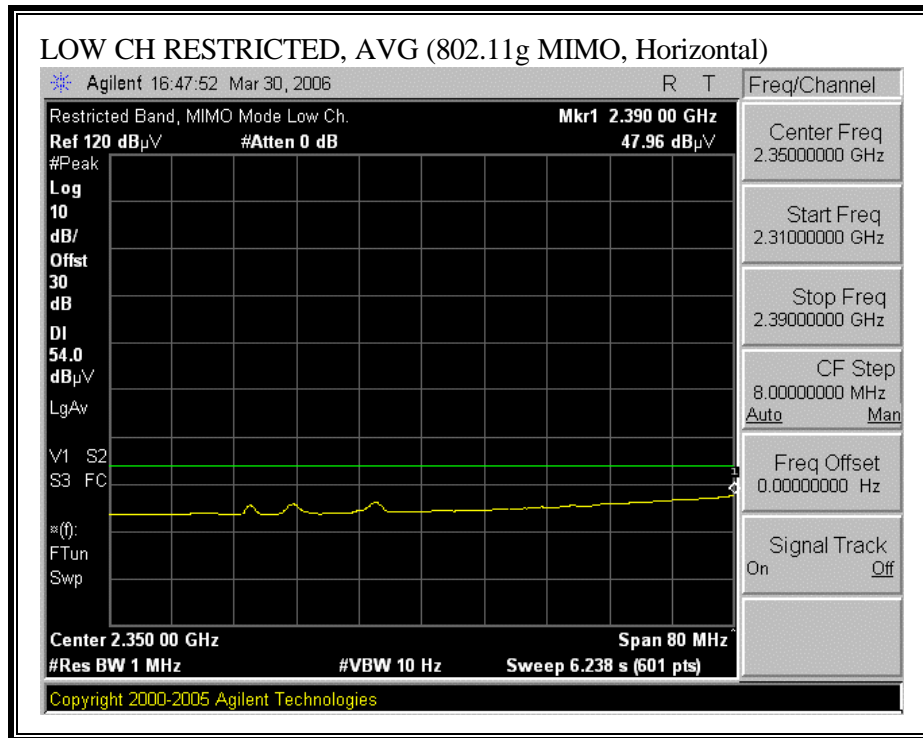




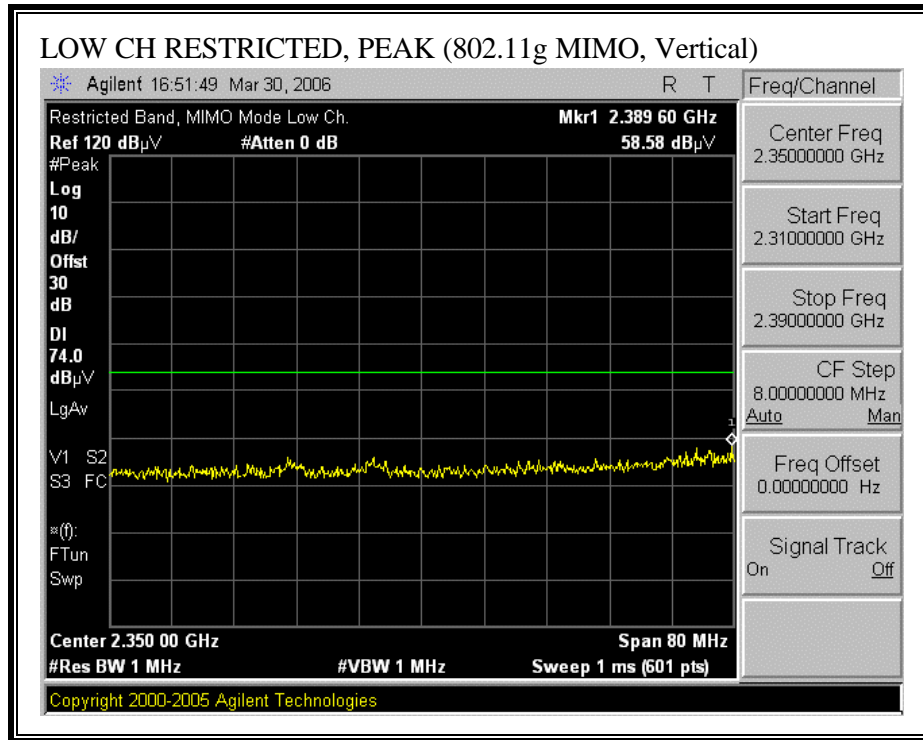


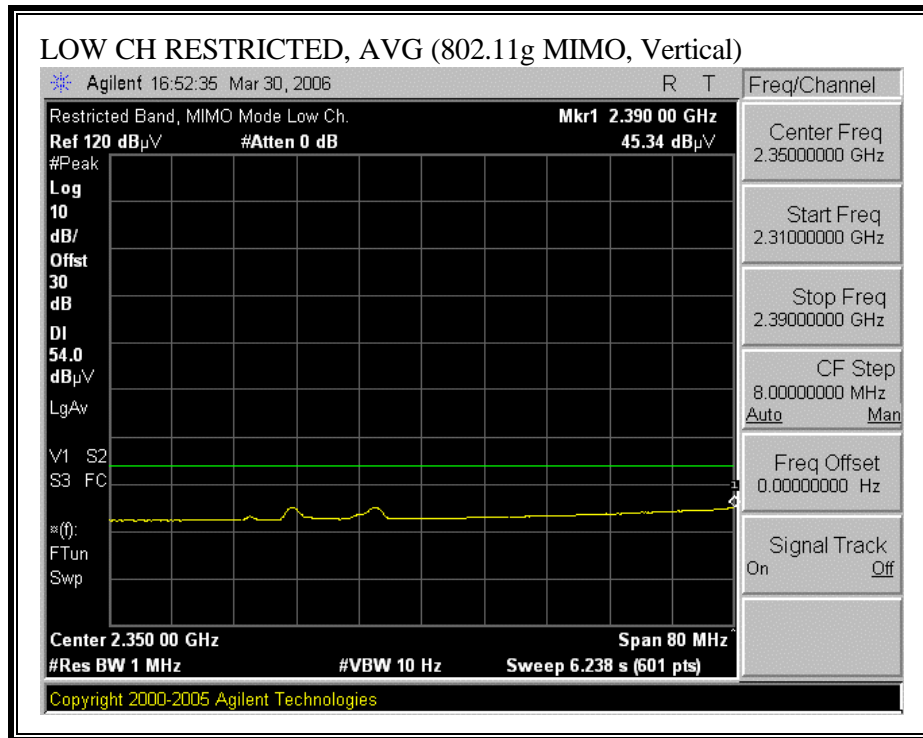
**RESTRICTED BANDEDGE (MIMO MODE, LOW CHANNEL, HORIZONTAL)**





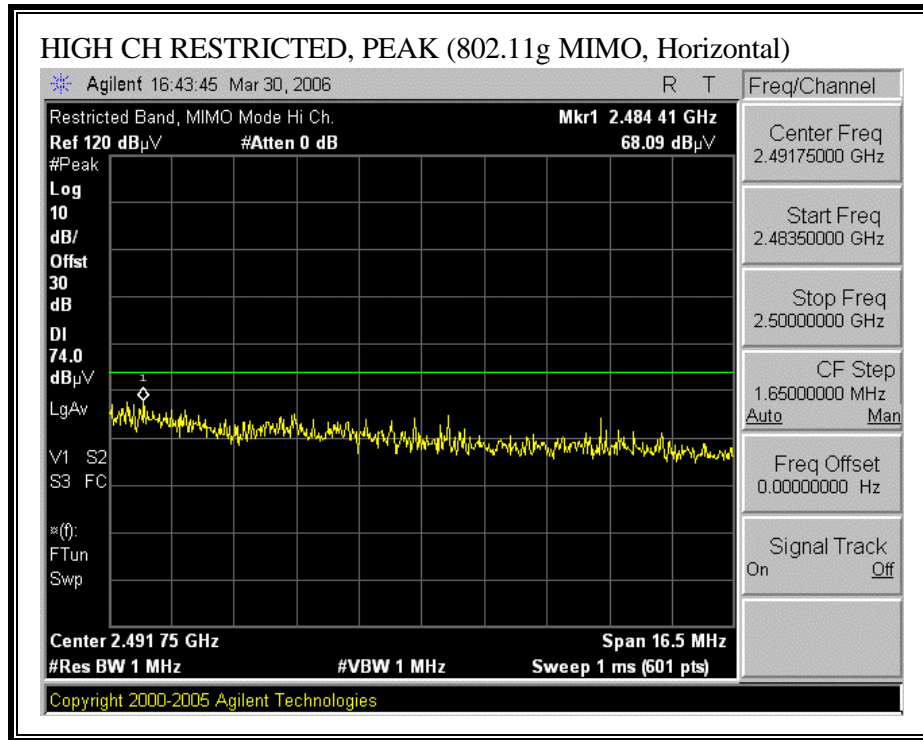
**RESTRICTED BANDEDGE (MIMO MODE, LOW CHANNEL, VERTICAL)**

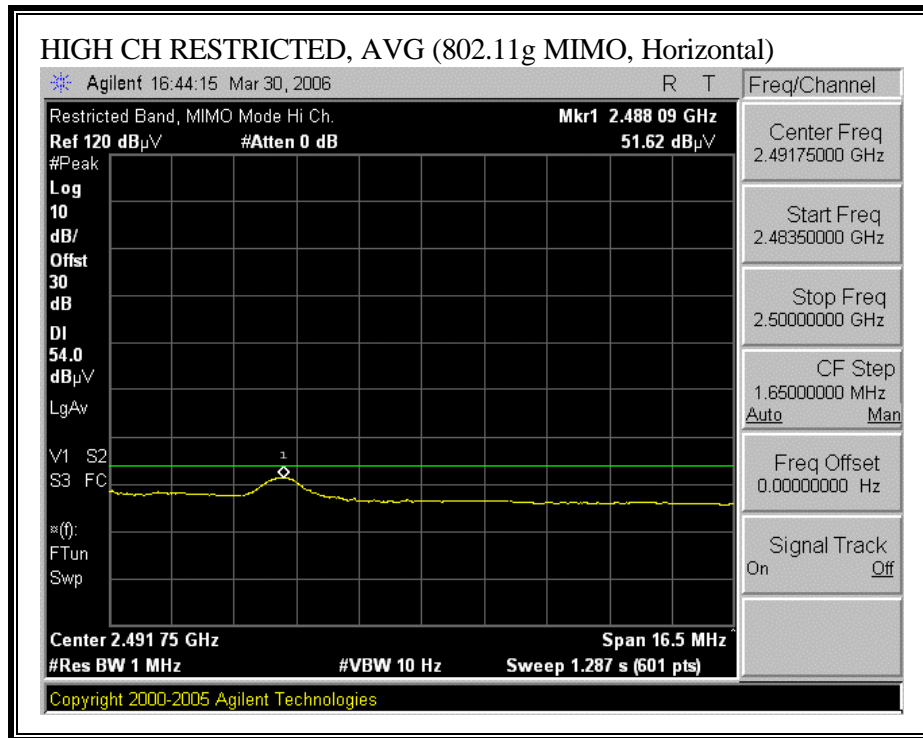




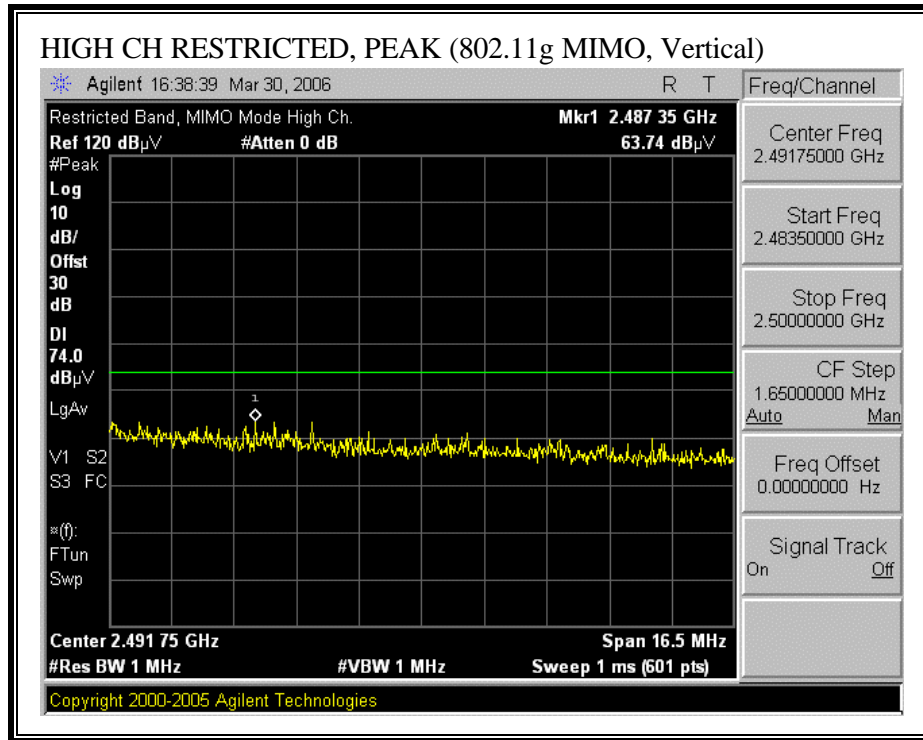


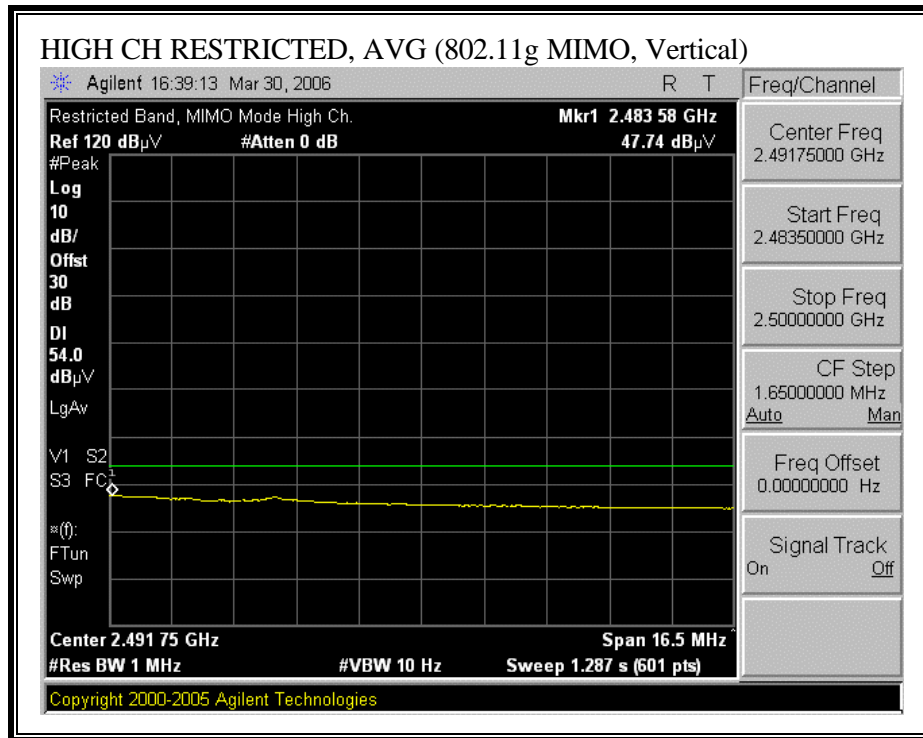
**RESTRICTED BANDEDGE (MIMO MODE, HIGH CHANNEL, HORIZONTAL)**





**RESTRICTED BANDEDGE (MIMO, HIGH CHANNEL, VERTICAL)**





**HARMONICS AND SPURIOUS EMISSIONS (MIMO MODE)**

03/30/06 High Frequency Measurement  
Compliance Certification Services, Morgan Hill Open Field Site A

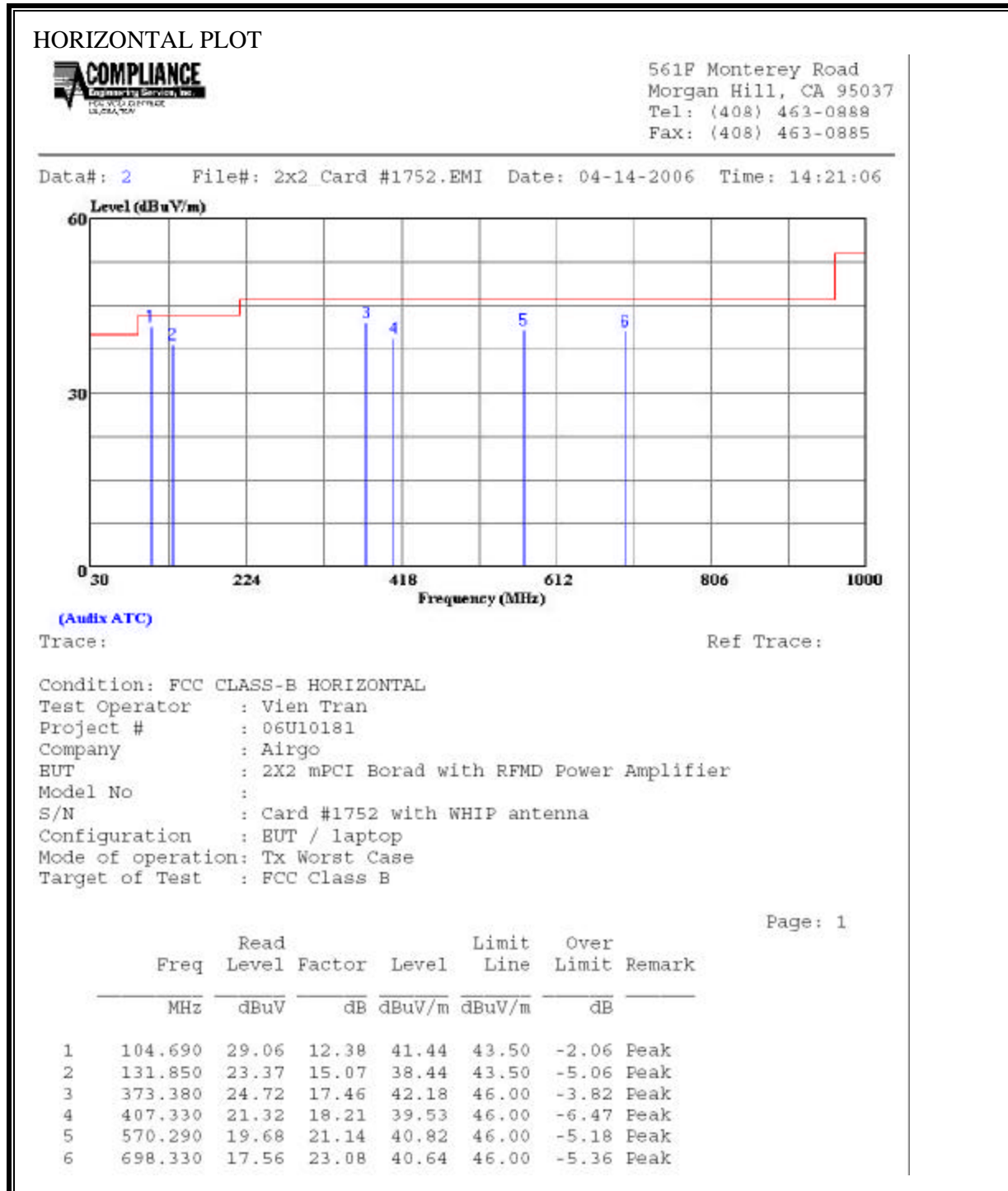
Test Engineer: Alvin Ibarra  
Project #: 06U10181  
Company: Airgo  
EUT Description: 2x2 mPCI Card  
EUT M/N: Transmit MIMO Mode

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
4.864	3.0	38.6	28.4	33.8	3.1	-34.8	0.0	0.6	41.3	31.1	74	54	-32.7	-22.9	V - Low
7.296	3.0	38.7	28.9	35.5	3.5	-34.1	0.0	0.6	44.2	34.4	74	54	-29.8	-19.6	V - Low
9.728	3.0	38.5	29.2	37.5	3.8	-33.4	0.0	0.8	47.3	38.0	74	54	-26.7	-16.0	V - Low
4.864	3.0	38.9	28.5	33.8	3.1	-34.8	0.0	0.6	41.6	31.2	74	54	-32.4	-22.8	H - Low
7.296	3.0	38.3	28.2	35.5	3.5	-34.1	0.0	0.6	43.8	33.7	74	54	-30.2	-20.3	H - Low
9.728	3.0	38.4	28.9	37.5	3.8	-33.4	0.0	0.8	47.2	37.7	74	54	-26.8	-16.3	H - Low
4.884	3.0	38.5	28.1	33.8	3.1	-34.8	0.0	0.6	41.2	30.8	74	54	-32.8	-23.2	V - Hi
7.326	3.0	39.0	28.7	35.5	3.5	-34.1	0.0	0.6	44.5	34.2	74	54	-29.5	-19.8	V - Hi
9.768	3.0	39.6	29.1	37.5	3.8	-33.3	0.0	0.8	48.5	38.0	74	54	-25.5	-16.0	V - Hi
4.884	3.0	37.6	29.3	33.8	3.1	-34.8	0.0	0.6	40.3	32.0	74	54	-33.7	-22.0	H - Hi
7.326	3.0	38.8	29.1	35.5	3.5	-34.1	0.0	0.6	44.3	34.6	74	54	-29.7	-19.4	H - Hi
9.768	3.0	36.6	29.7	37.5	3.8	-33.3	0.0	0.8	45.5	38.6	74	54	-28.5	-15.4	H - Hi
All measurements noise floor															

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

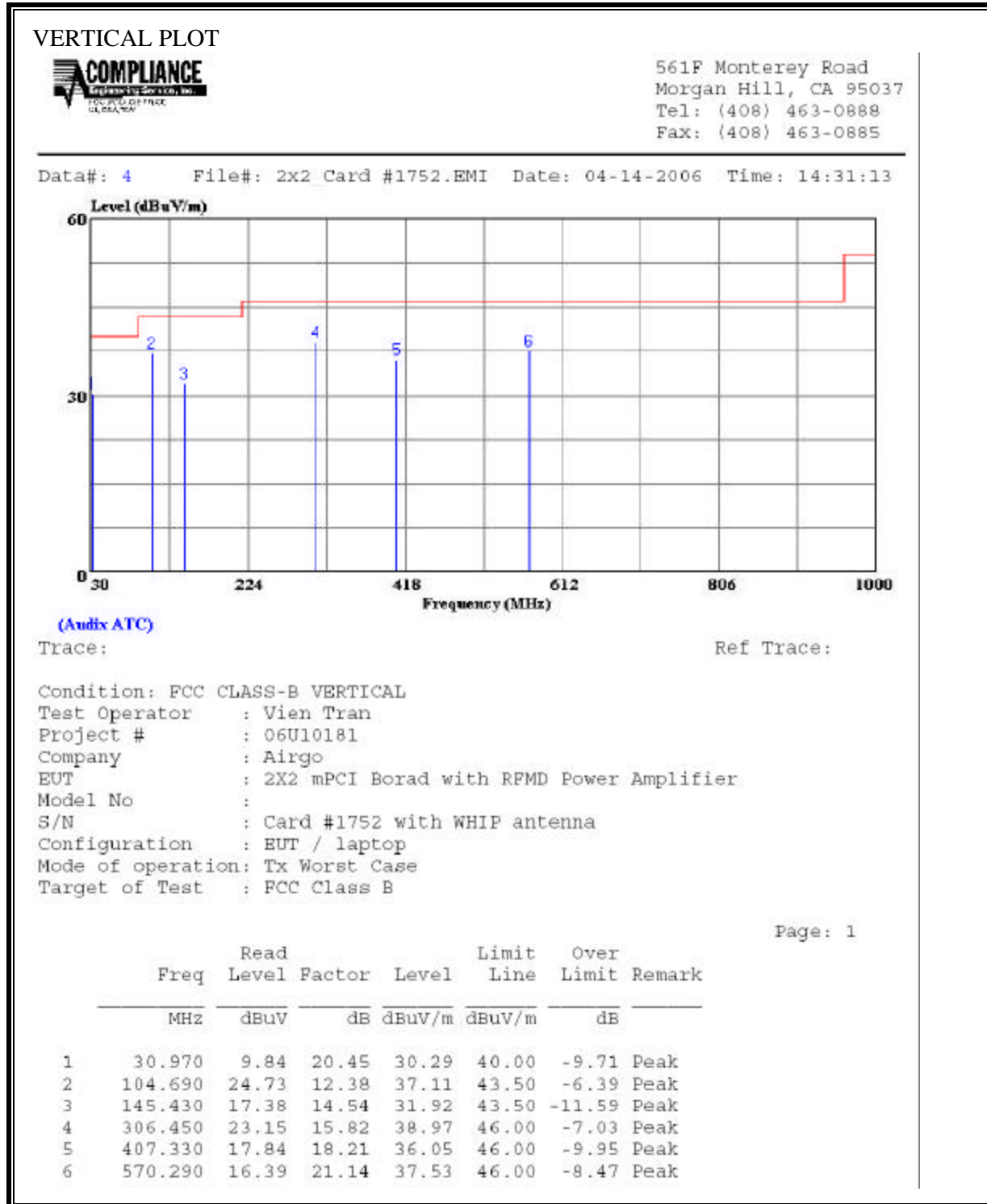
**7.2.4. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz**

**SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)**





**SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)**





### 7.3. POWERLINE CONDUCTED EMISSIONS

#### LIMIT

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

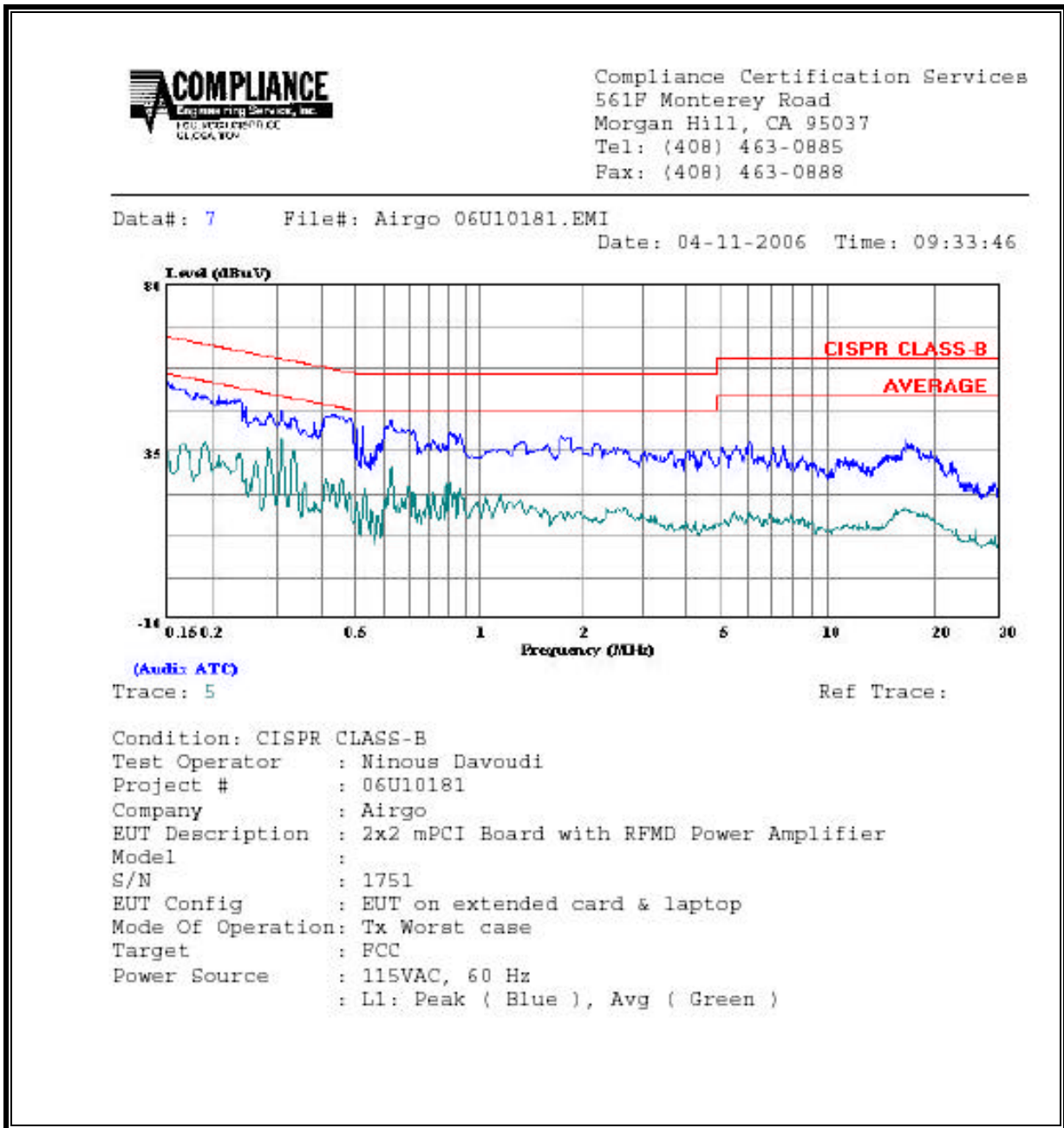
#### RESULTS

No non-compliance noted:

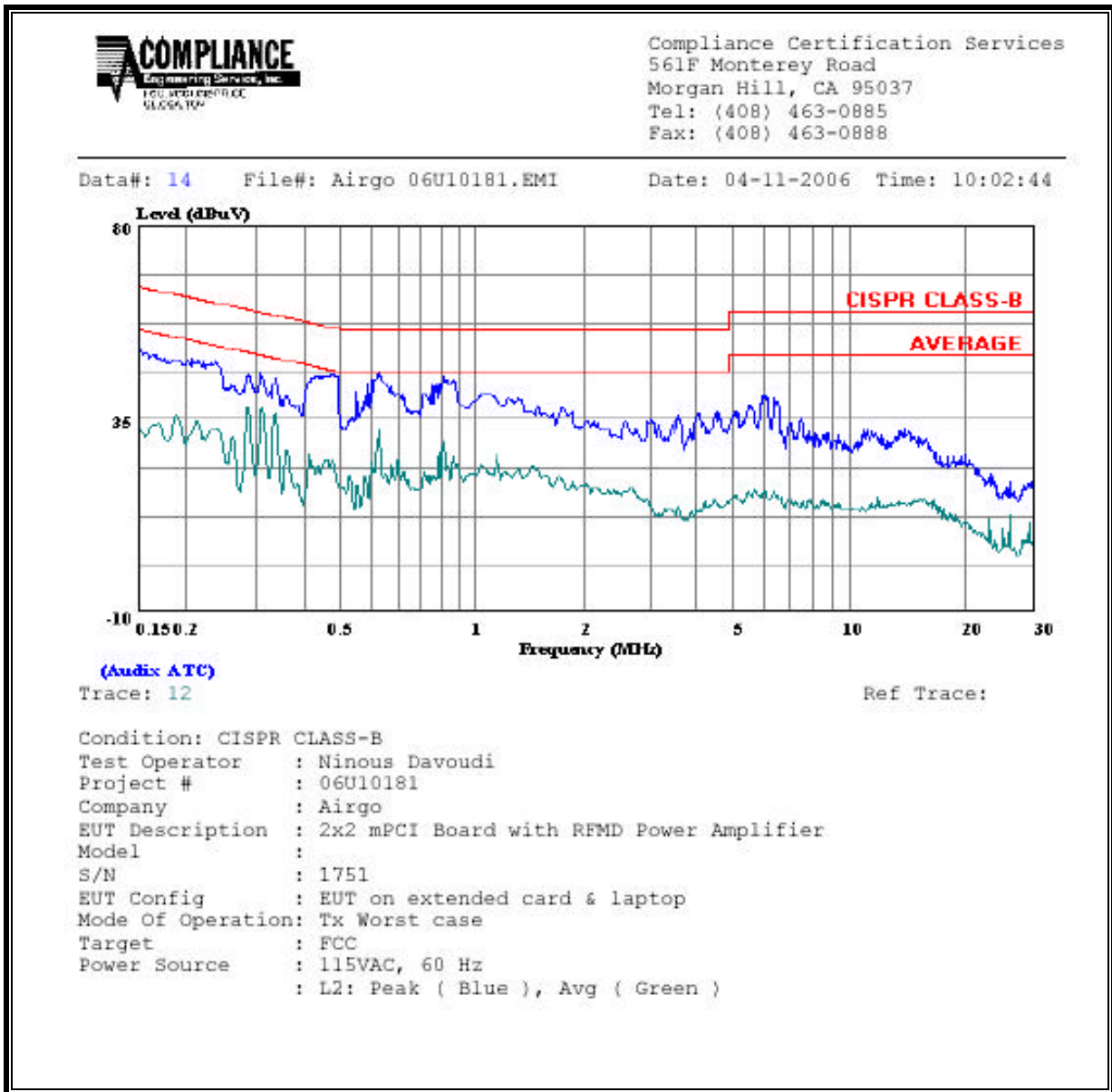
**6 WORST EMISSIONS**

CONDUCTED EMISSIONS DATA										
Freq. (MHz)	Reading			Class (dB)	Limit QP	EN_B		Margin		Remark L1 / L2
	PK (dBuV)	QP (dBuV)	AV (dBuV)			AV	QP (dB)	AV (dB)		
0.15	53.80	--	32.47	0.00	66.00	56.00	-12.20	-23.53	L1	
0.43	44.82	--	25.95	0.00	57.23	47.23	-12.41	-21.28	L1	
0.63	43.20	--	31.00	0.00	56.00	46.00	-12.80	-15.00	L1	
0.15	52.10	--	34.60	0.00	66.00	56.00	-13.90	-21.40	L2	
0.47	45.32	--	25.08	0.00	56.44	46.44	-11.12	-21.36	L2	
0.63	45.70	--	32.31	0.00	56.00	46.00	-10.30	-13.69	L2	
6 Worst Data										

**LINE 1 RESULTS**

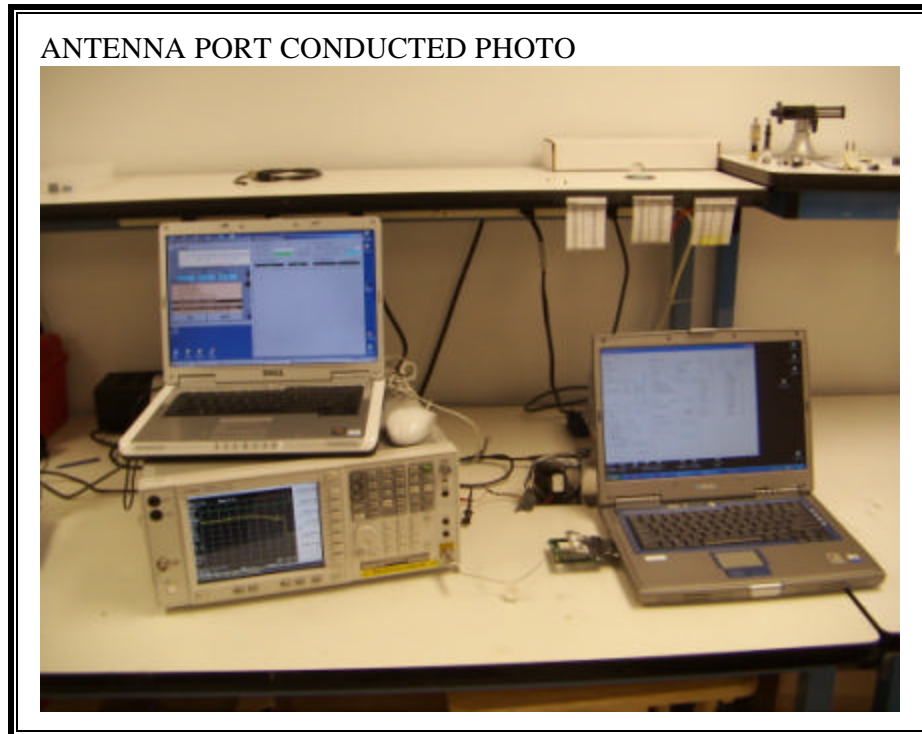


**LINE 2 RESULTS**

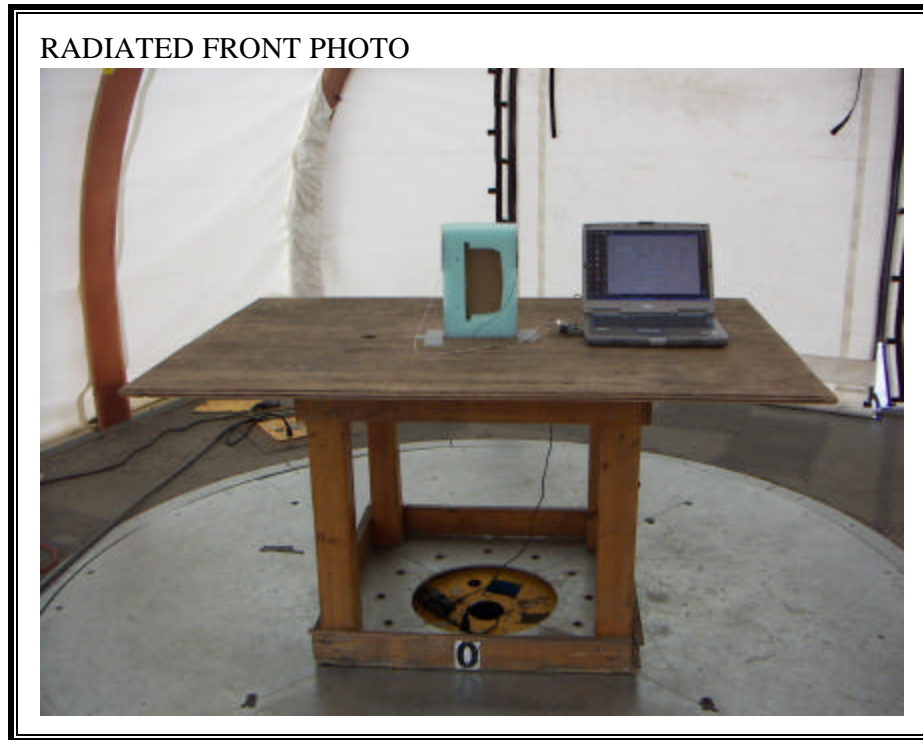


## 8. SETUP PHOTOS

### ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



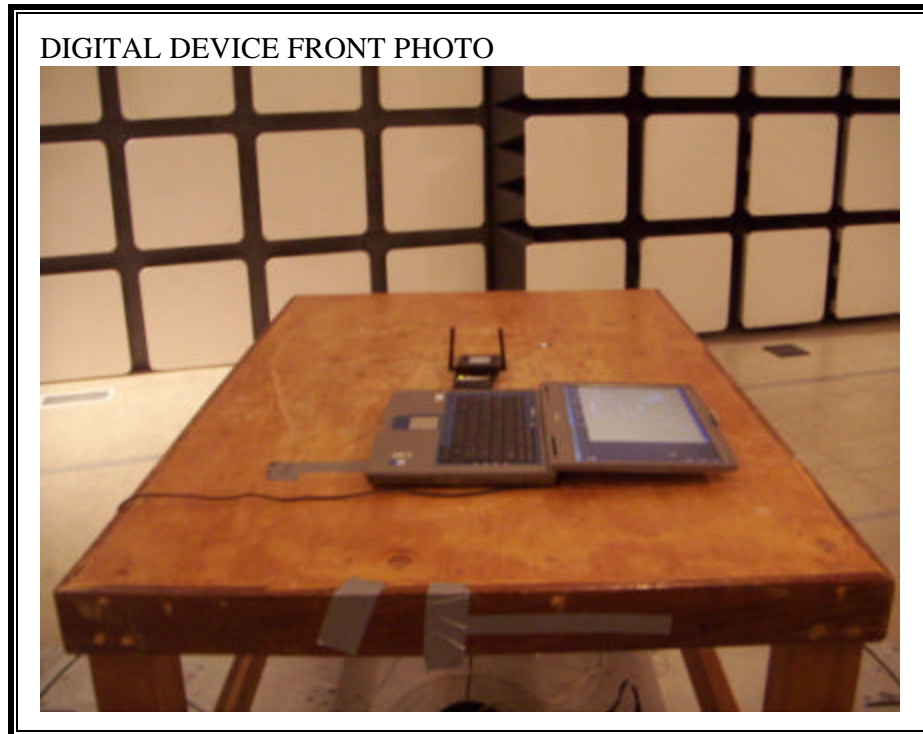
**RADIATED RF MEASUREMENT SETUP**







**DIGITAL DEVICE RADIATED EMISSIONS SETUP**





DIGITAL DEVICE BACK PHOTO



**POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP**





**END OF REPORT**