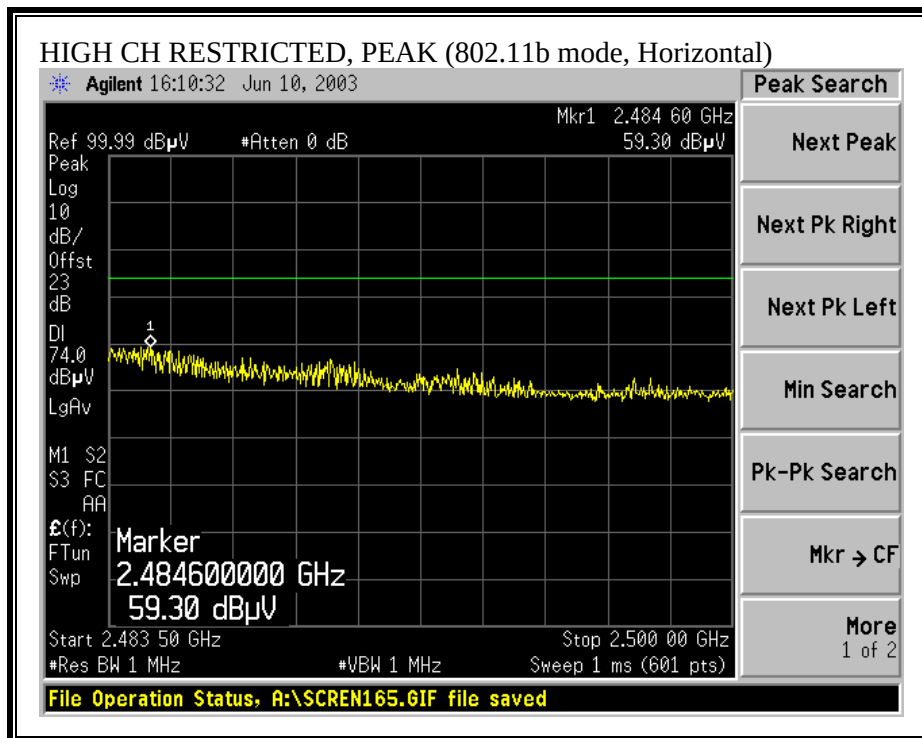
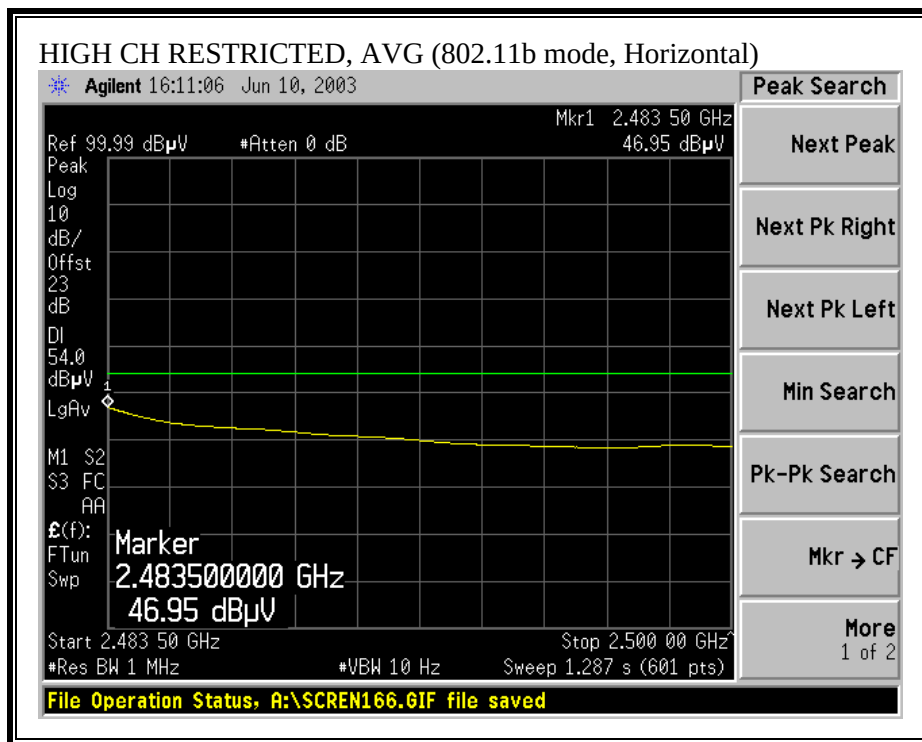
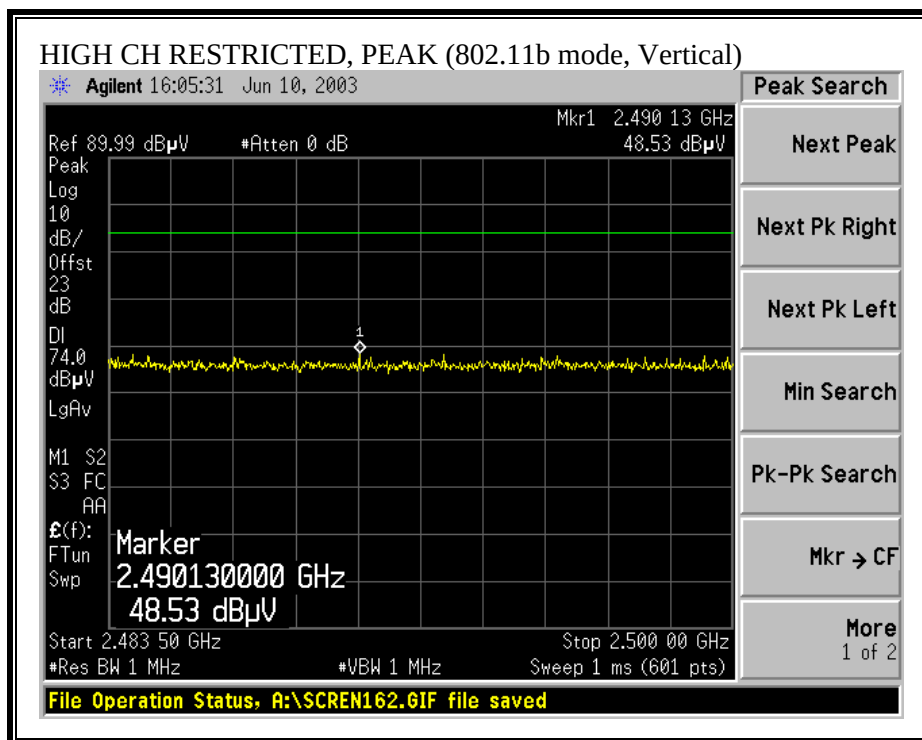


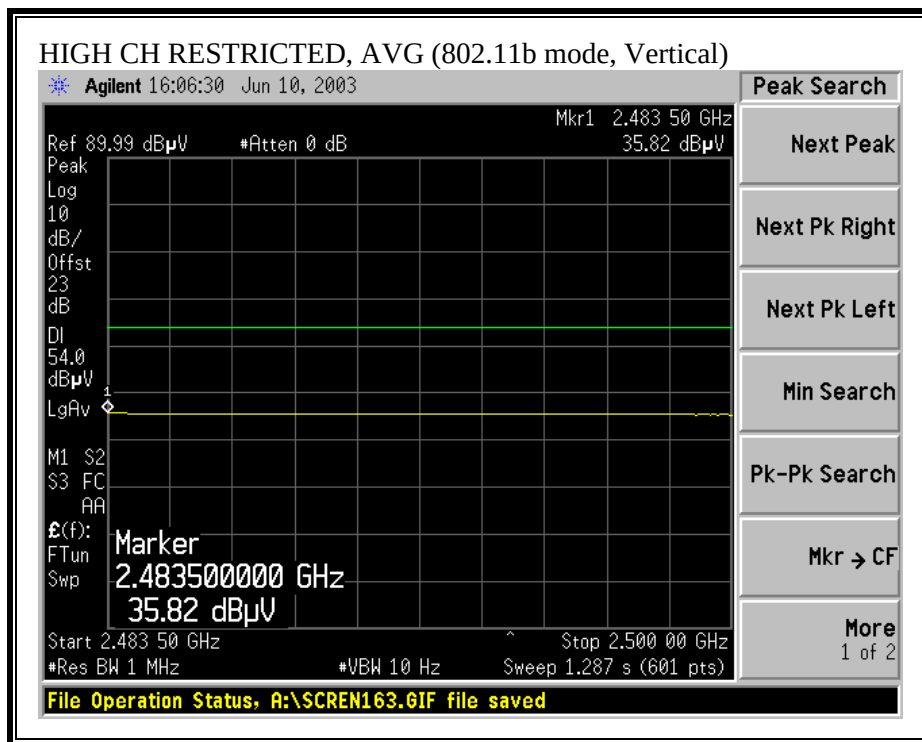
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

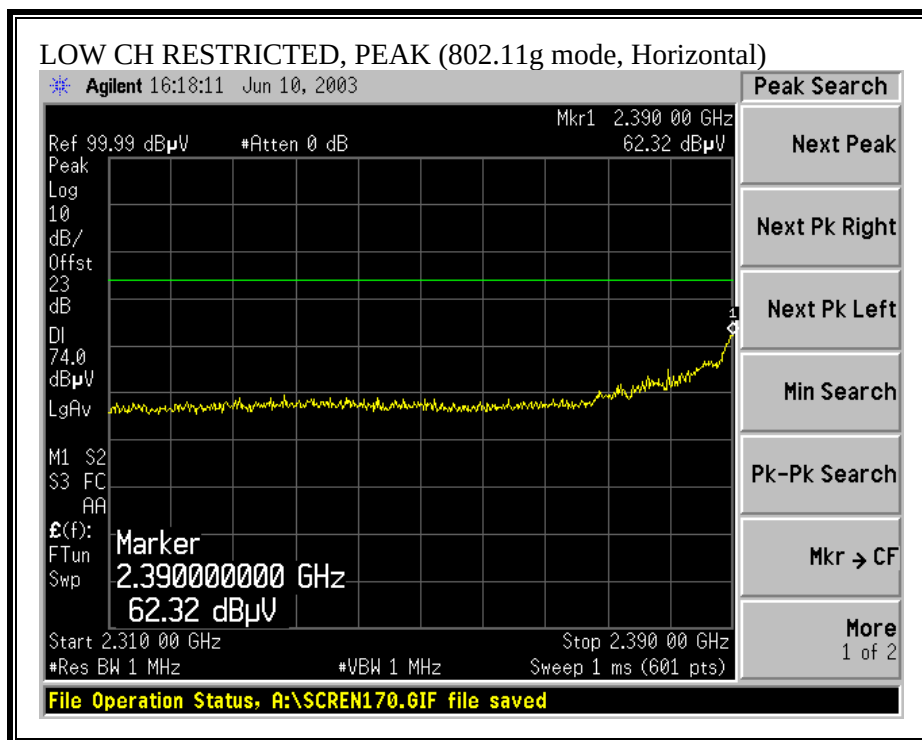


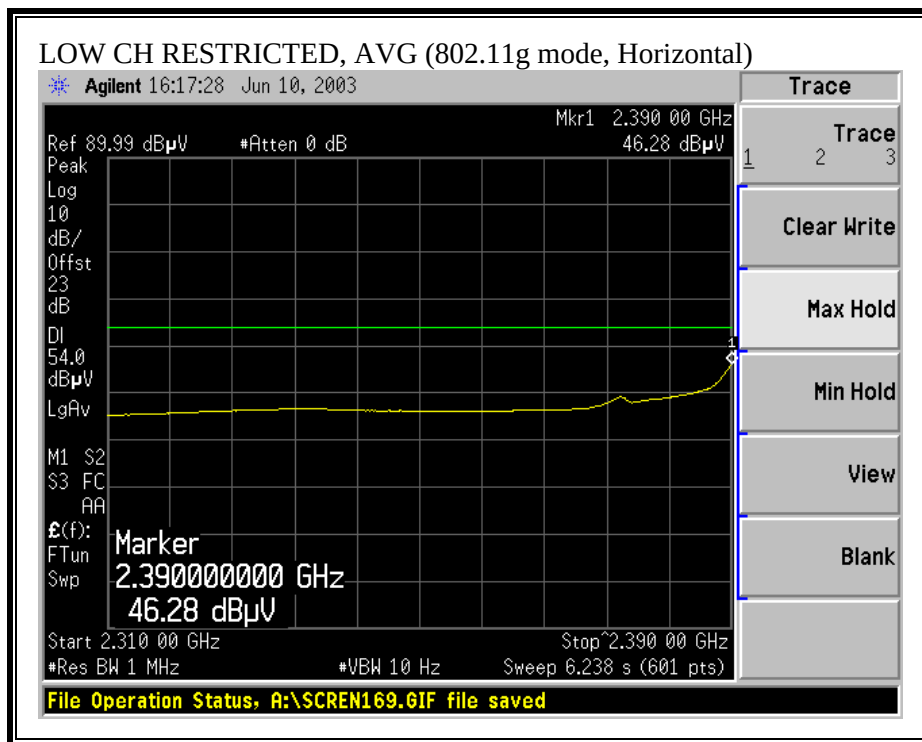


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

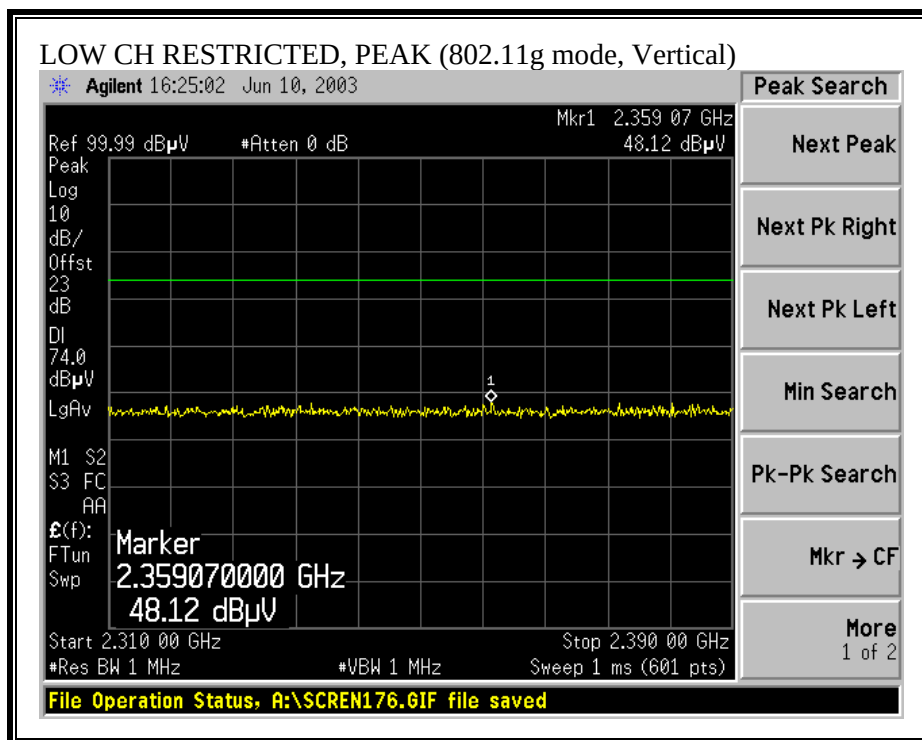
05/10/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site															
Test Engr: Yan Zheng															
Project #:															
Company: Cisco															
EUT Descrip.: AIR-CT516G-A-K9															
EUT M/N: SMT07210013															
Test Target:															
Mode Oper: Transmit, b Mode, with 13.5dBi Patch Array Antenna															
Test Equipment:															
EMCO Horn 1-18GHz		Pre-amplifier 1-26GHz		Spectrum Analyzer		Horn > 18GHz		Limit							
T60; S/N: 2238 @3m		T86 Miteq 924341		Agilent E4446A Analyzer		T117; ARA 18-26GHz; S/N:1013		FCC 15.205							
H-Frequency Cables:															
☐ (2 ft) ☒ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)															
Peak Measurements: Average Measurements: 1 MHz Resolution Bandwidth 1 MHz Resolution Bandwidth 1MHz Video Bandwidth 10Hz Video Bandwidth															
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	HPF	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz	feet	dBuV	dBuV	dB/m	dB	dB	dB		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	
Spurious															
Harmonics															
Channel 1 (2412MHz)															
4.824	9.8	53.6	47.2	33.1	4.4	-45.6	0.0	1.0	46.8	40.1	74.0	54.0	-27.6	-13.9	H
4.824	9.8	61.8	60.8	33.1	4.4	-45.6	0.0	1.0	54.7	53.7	74.0	54.0	-19.3	-0.3	V
Channel 6 (2437MHz)															
4.874	9.8	60.9	59.4	33.1	4.4	-45.6	0.0	1.0	53.8	52.3	74.0	54.0	-20.2	-1.7	V
7.311	9.8	48.5	36.6	36.2	5.7	-46.6	0.0	1.0	44.8	32.9	74.0	54.0	-29.2	-21.1	V
7.311	9.8	48.0	36.6	36.2	5.7	-46.6	0.0	1.0	44.3	32.9	74.0	54.0	-29.7	-21.1	H
4.874	9.8	48.9	43.5	33.1	4.4	-45.6	0.0	1.0	41.8	36.4	74.0	54.0	-32.2	-17.6	H
Channel 11 (2462MHz)															
4.924	9.8	61.7	60.2	33.2	4.5	-45.7	0.0	1.0	54.6	53.1	74.0	54.0	-19.4	-0.9	V
7.386	9.8	48.5	36.6	36.3	5.7	-46.5	0.0	1.0	45.0	33.1	74.0	54.0	-29.0	-20.9	V
7.386	9.8	48.0	36.6	36.3	5.7	-46.5	0.0	1.0	44.5	33.1	74.0	54.0	-29.5	-20.9	H
4.924	9.8	51.8	47.2	33.2	4.5	-45.7	0.0	1.0	44.7	40.1	74.0	54.0	-29.3	-13.9	H
36.5															
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											

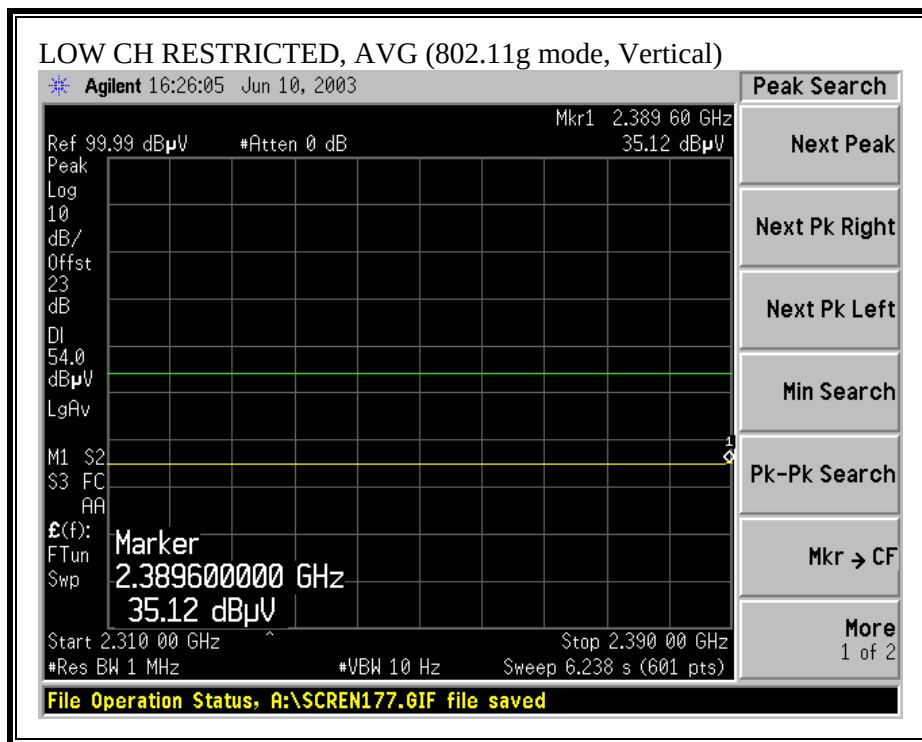
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



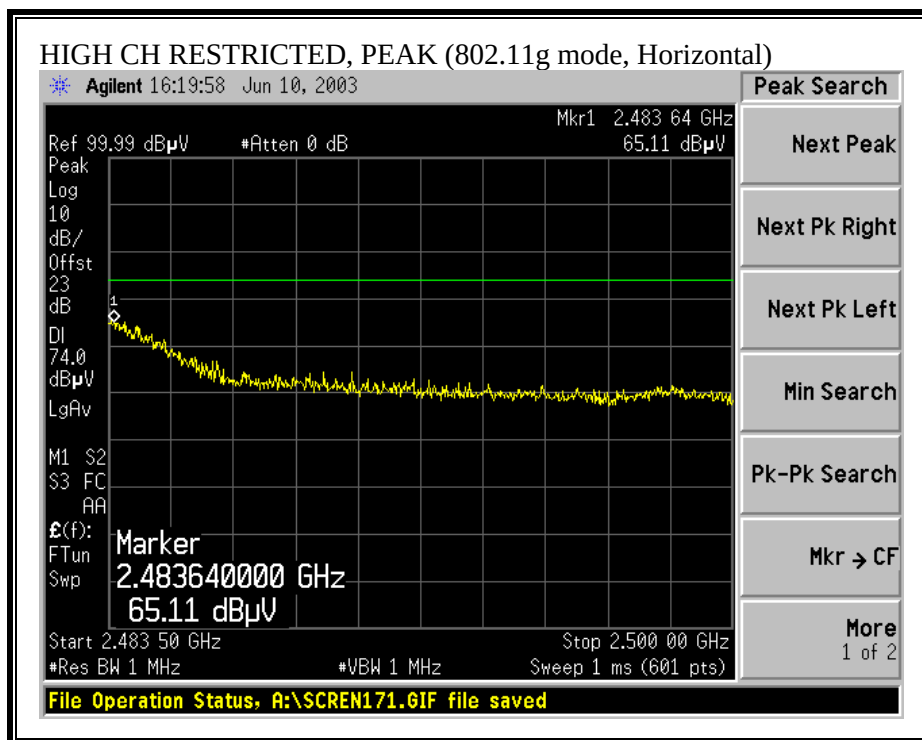


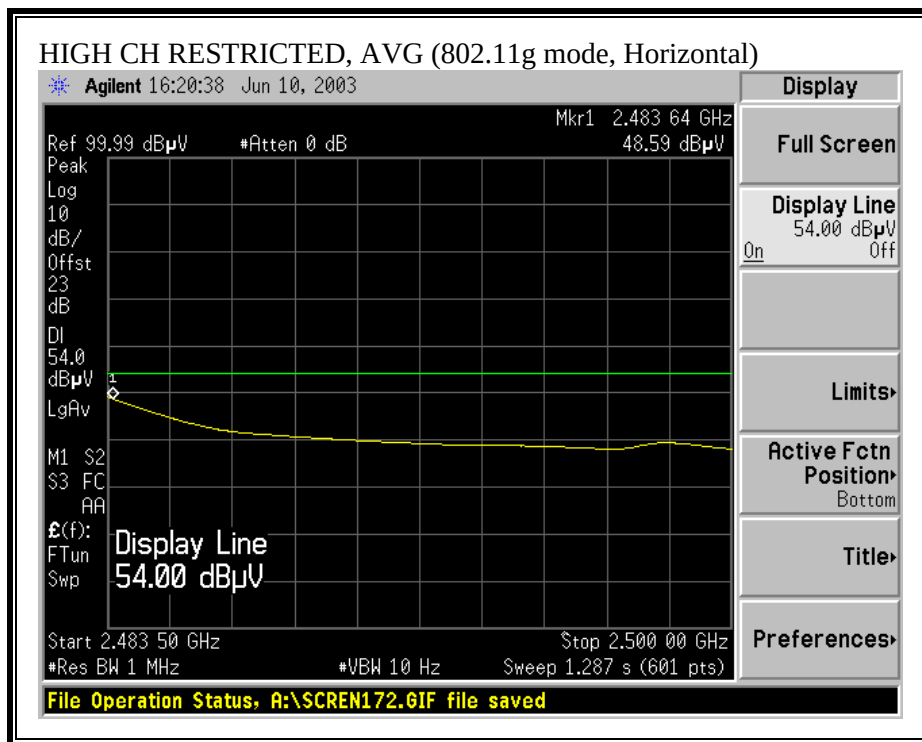
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



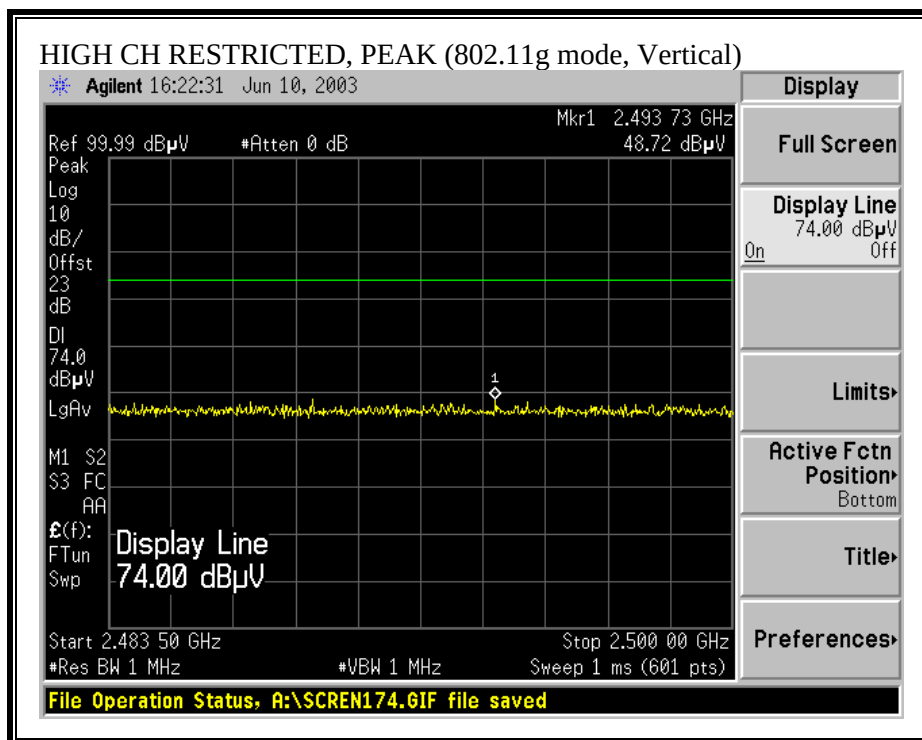


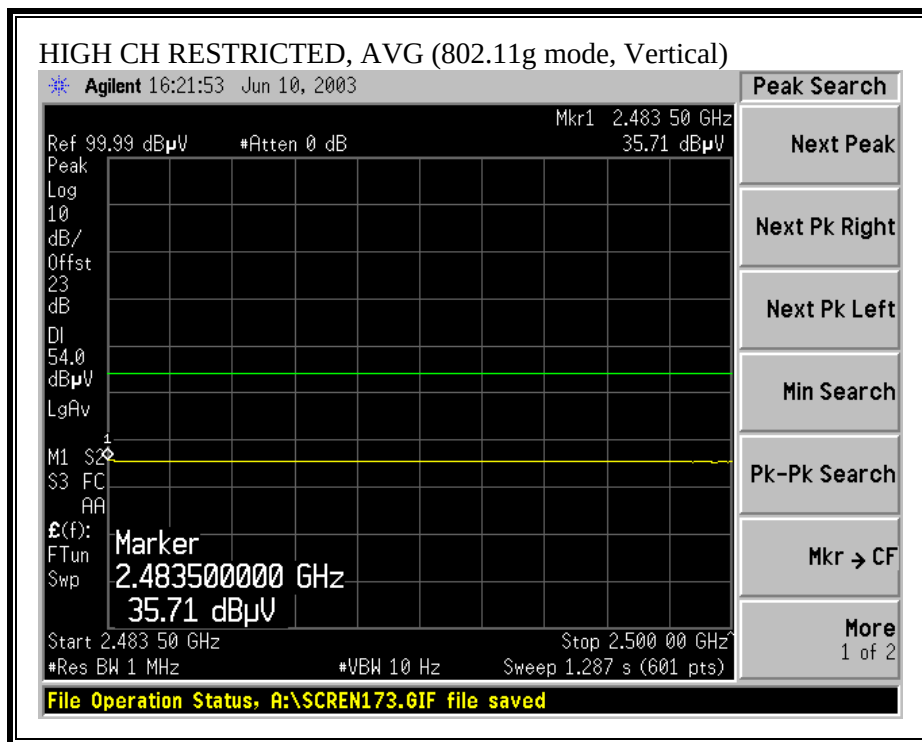
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)



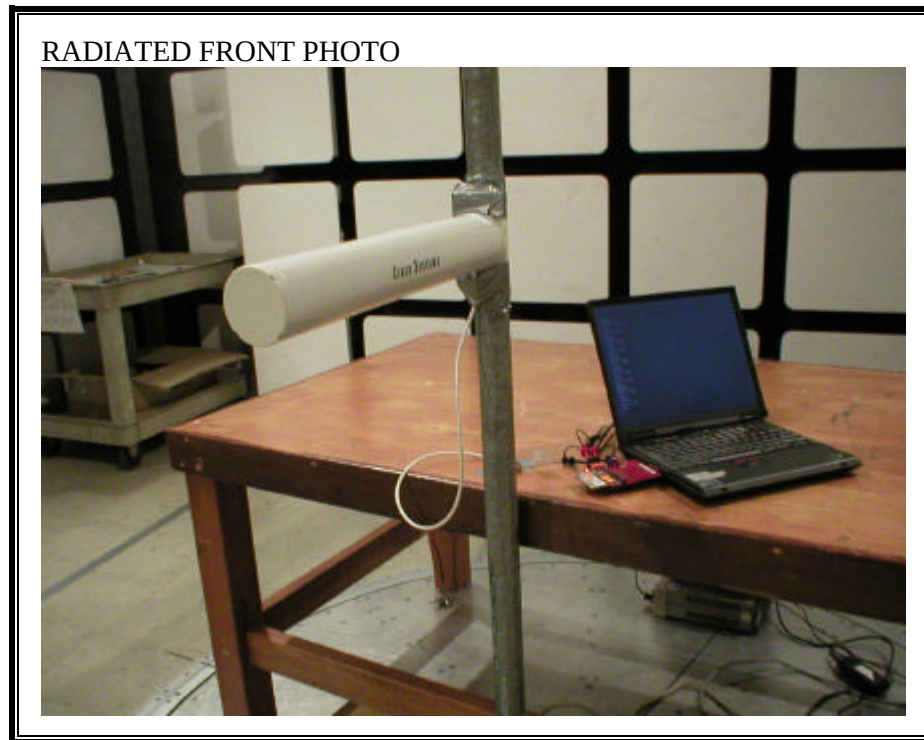


HARMONICS AND SPURIOUS EMISSIONS (g MODE)

05/10/03 High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Test Engr:		Yan Zheng														
Project #:																
Company:		Cisco														
EUT Descrip.:		AIR-CT510G-A-K9														
EUT M/N:		SMT07210013														
Test Target:																
Mode Oper:		Transmit, g Mode, with 13.5dBi Patch Array Antenna														
Test Equipment:																
EMCO Horn 1-18GHz			Pre-amplifier 1-26GHz			Spectrum Analyzer			Horn > 18GHz			Limit				
T60; S/N: 2238 @3m			T86 Miteq 924341			Agilent E4446A Analyzer			T117; ARA 18-26GHz; S/N:1013			FCC 15.205				
H Frequency Cables:																
☐ (2 ft) ☒ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)																
Peak Measurements: Average Measurements:																
1 MHz Resolution Bandwidth 1 MHz Resolution Bandwidth																
1 MHz Video Bandwidth 10 Hz Video Bandwidth																
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes	
Spurious																
Harmonics																
Channel 1 (2412MHz)																
4.824	9.8	61.4	47.2	33.1	4.4	-45.6	0.0	1.0	44.3	40.1	74.0	64.0	-29.7	-13.9	H	
4.824	9.8	61.7	60.7	33.1	4.4	-45.6	0.0	1.0	54.6	53.6	74.0	64.0	-19.4	-0.4	V	
Channel 6 (2437MHz)																
4.874	9.8	60.2	58.9	33.1	4.4	-45.6	0.0	1.0	53.1	51.8	74.0	64.0	-20.9	-2.2	V	
7.311	9.8	48.5	36.6	36.2	5.7	-46.6	0.0	1.0	44.8	32.9	74.0	64.0	-29.2	-21.1	V	
7.311	9.8	48.0	36.6	36.2	5.7	-46.6	0.0	1.0	44.3	32.9	74.0	64.0	-29.7	-21.1	H	
4.874	9.8	50.0	43.6	33.1	4.4	-45.6	0.0	1.0	42.9	36.5	74.0	64.0	-31.1	-17.5	H	
Channel 11 (2462MHz)																
4.924	9.8	61.6	60.1	33.8	3.8	-45.7	0.0	1.0	54.5	53.0	74.0	64.0	-19.5	-1.0	V	
7.386	9.8	48.5	36.6	37.4	4.9	-46.5	0.0	1.0	45.1	33.2	74.0	64.0	-28.9	-20.8	V	
7.386	9.8	48.0	36.6	37.4	4.9	-46.5	0.0	1.0	44.6	33.2	74.0	64.0	-29.4	-20.8	H	
4.924	9.8	52.5	47.4	33.8	3.8	-45.7	0.0	1.0	45.4	40.3	74.0	64.0	-28.6	-13.7	H	

7.9.5. RADIATED EMISSIONS WITH 13.5 dBi YAGI ANTENNA

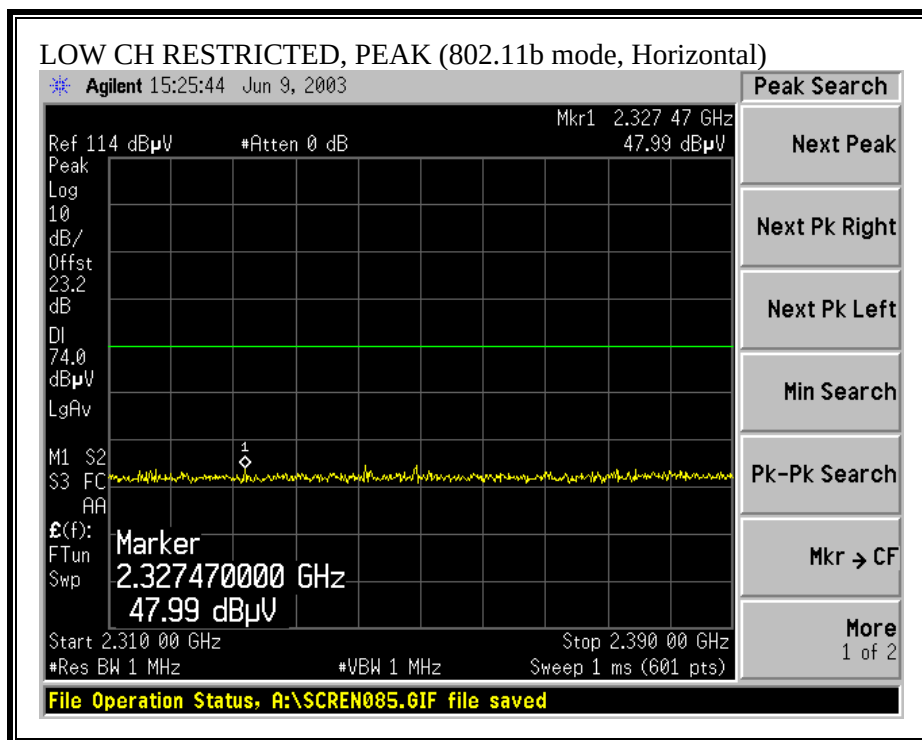
RADIATED RF MEASUREMENT SETUP

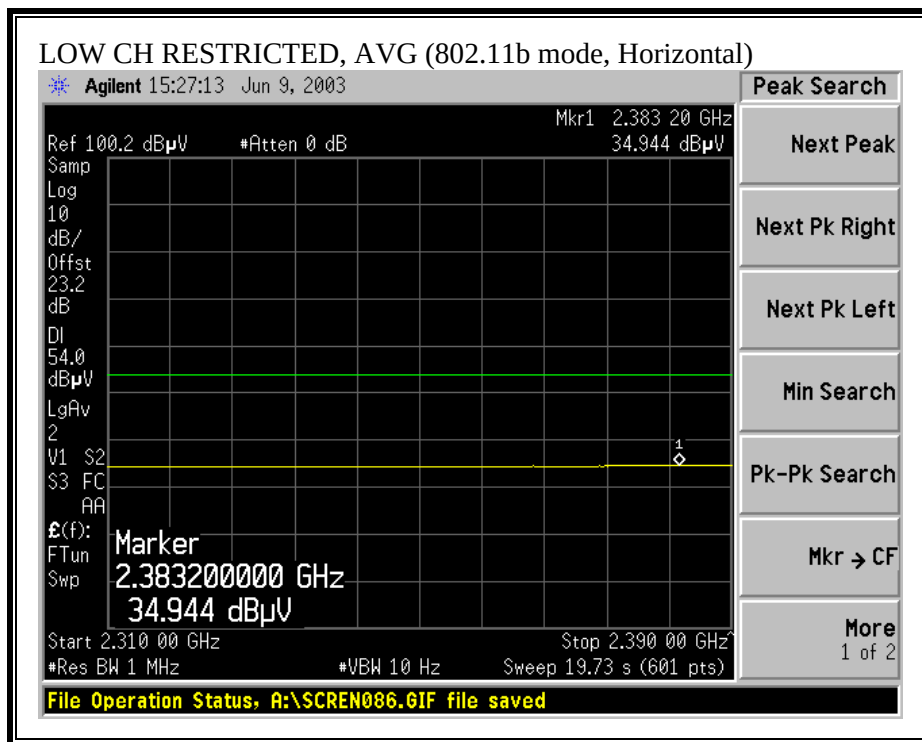


RADIATED BACK PHOTO

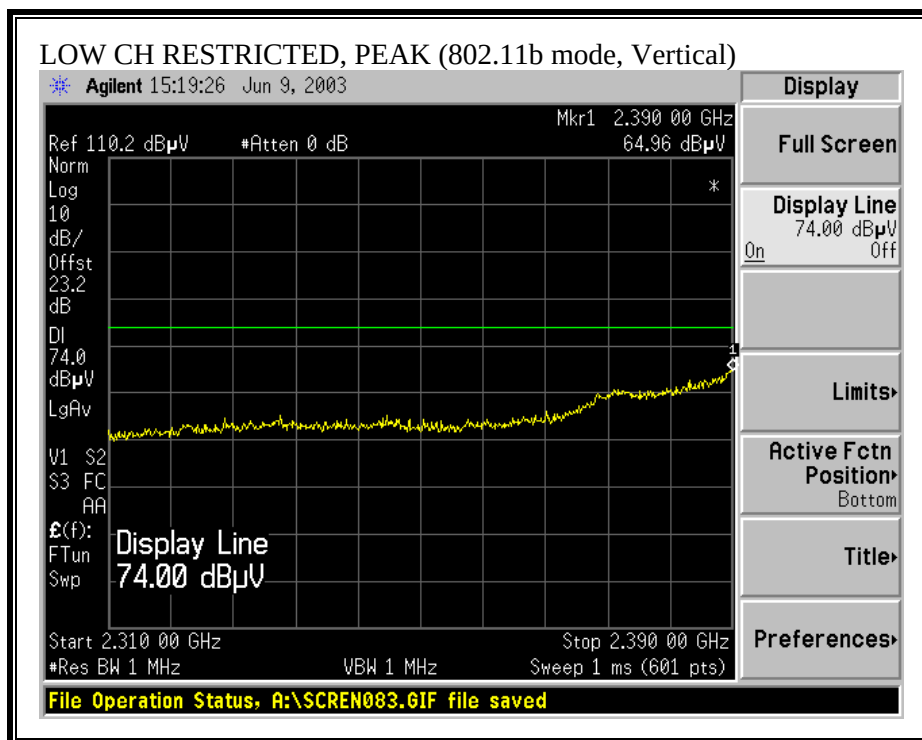


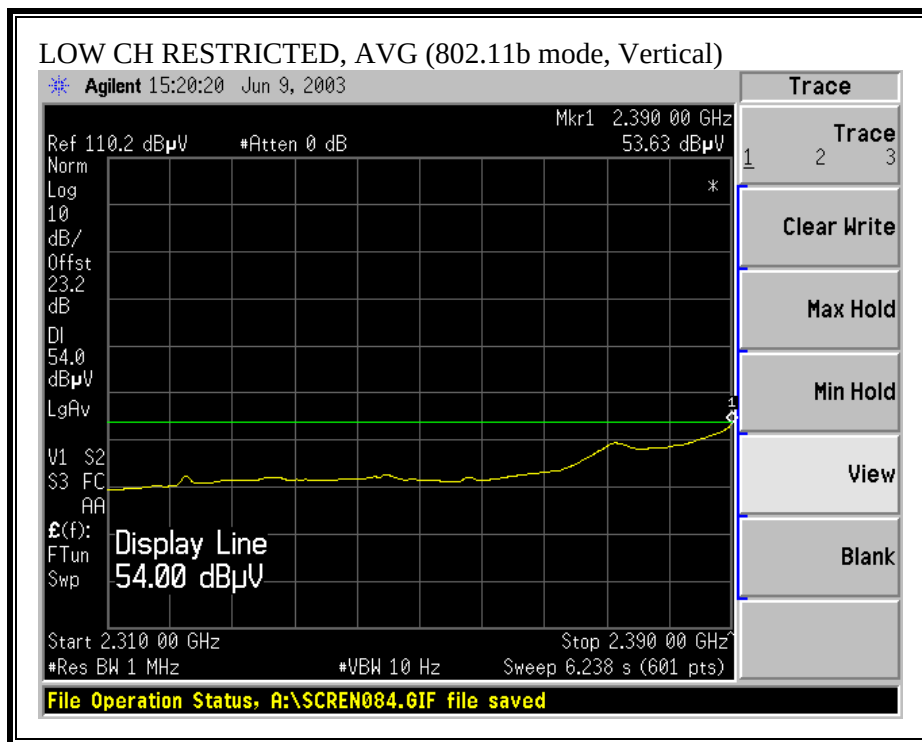
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



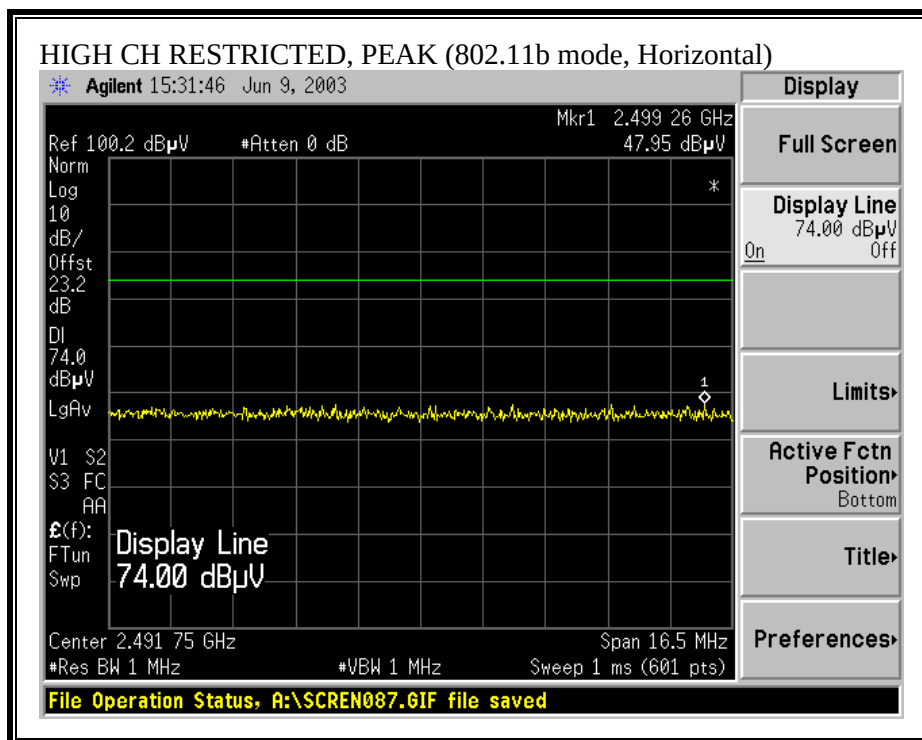


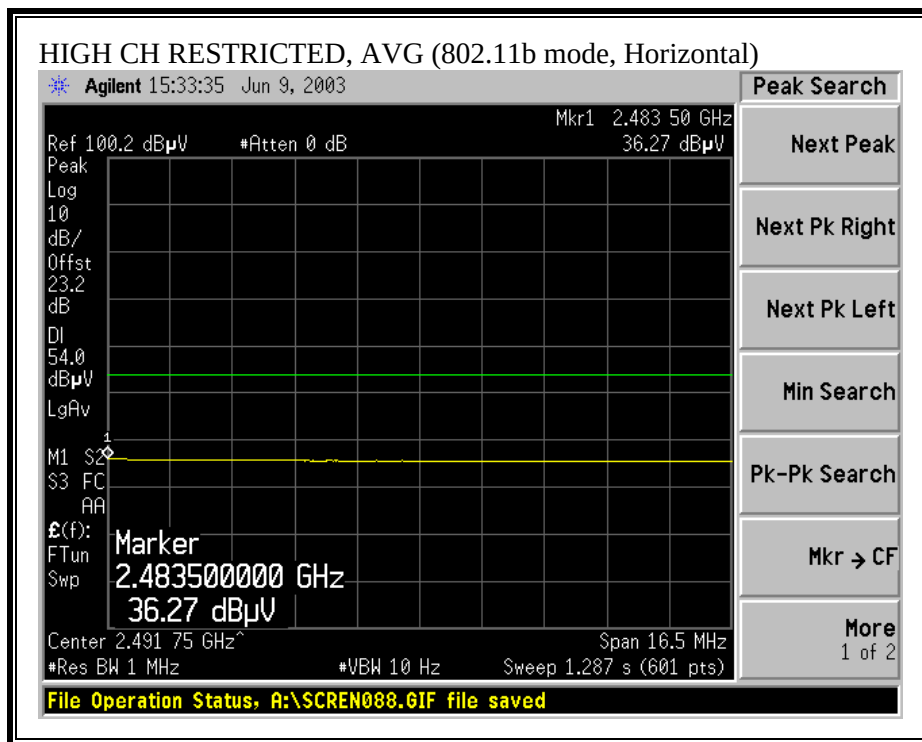
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



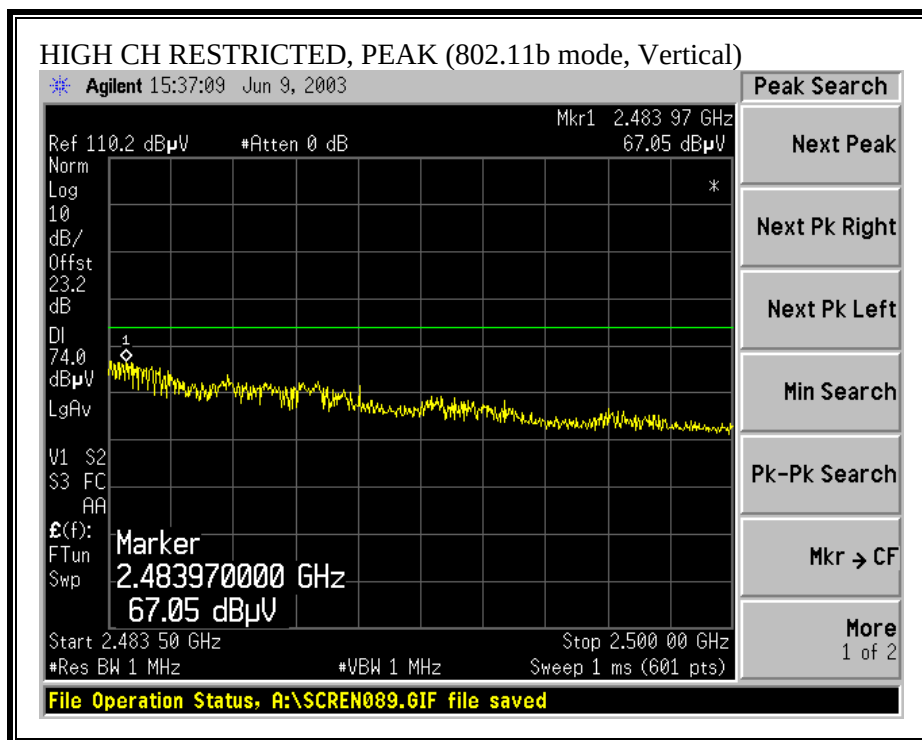


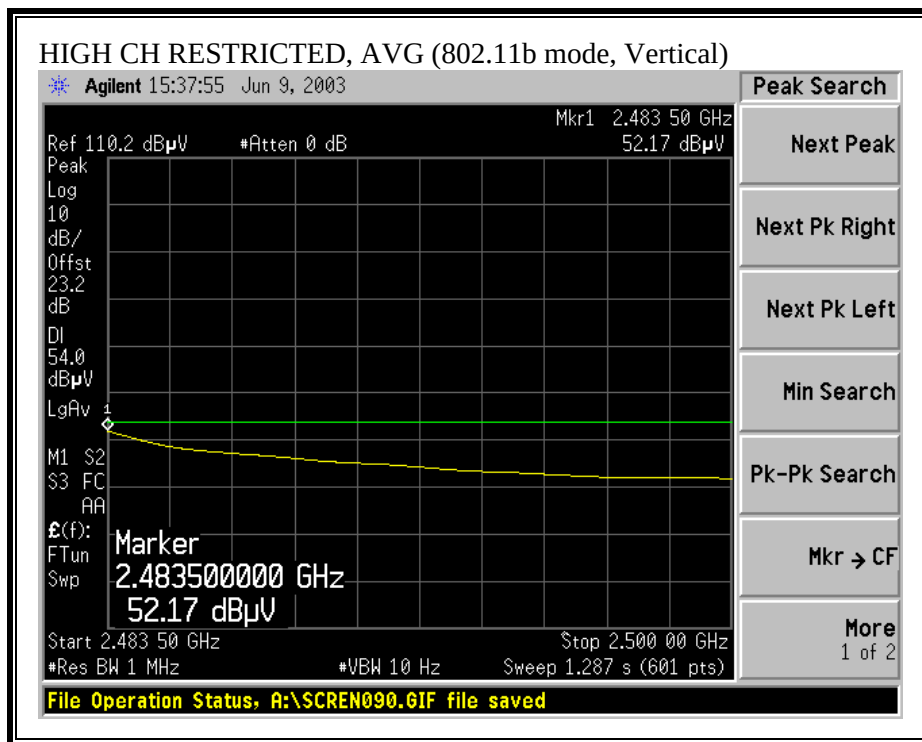
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

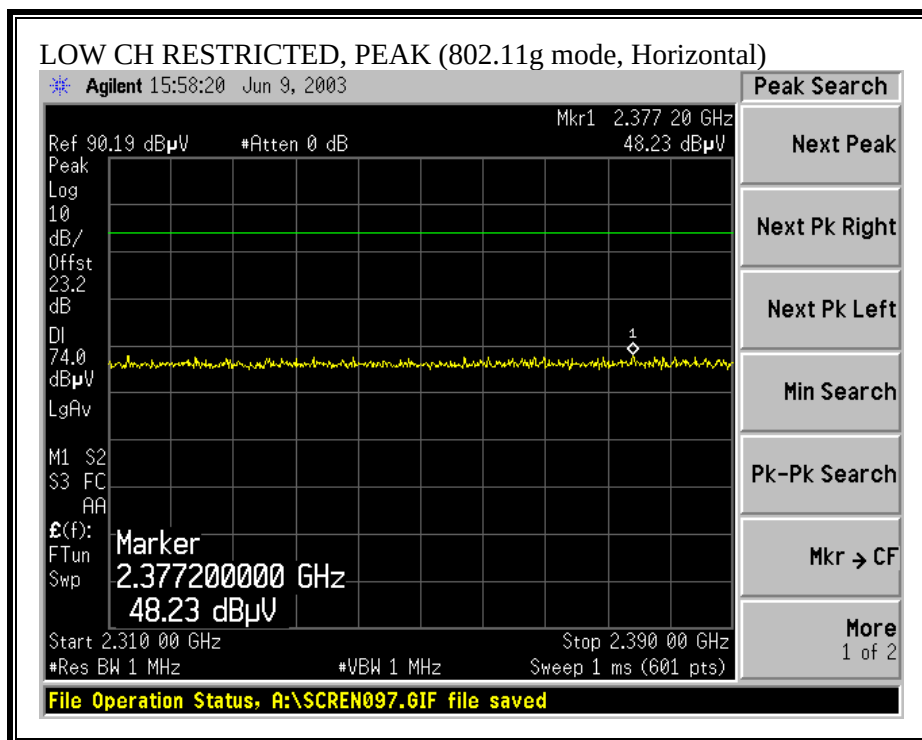


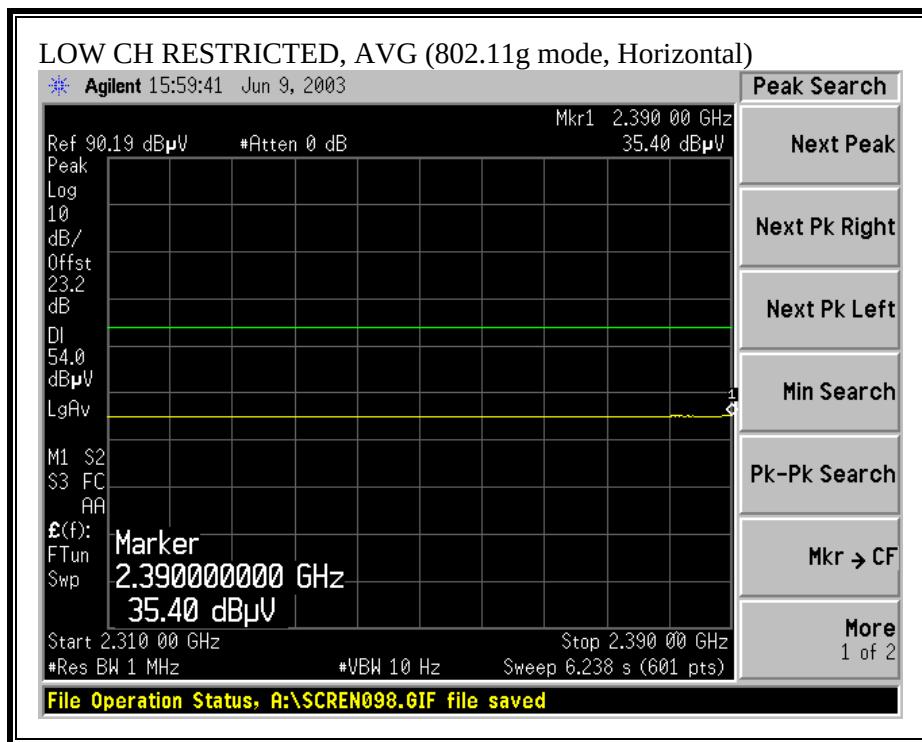


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

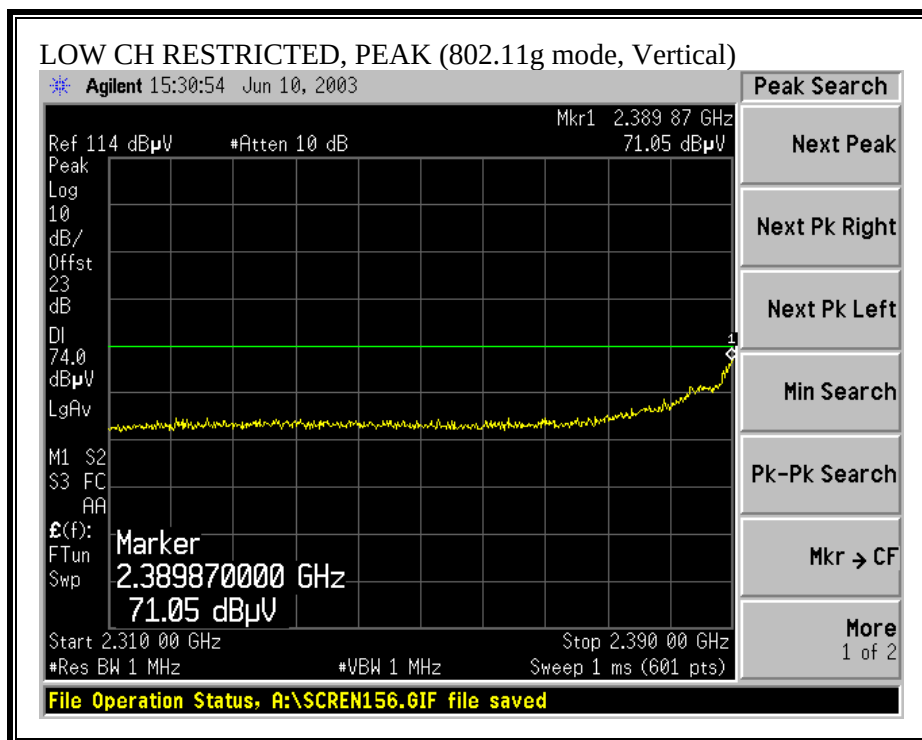
05/10/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site																
Test Engr: Yan Zheng																
Project #:																
Company: Cisco																
EUT Descrip.: AIR-CT516-A-K9																
EUT M/N: SMT07210013																
Test Target:																
Mode Oper: Transmit, b Mode, with 13.5dBi Yagi Antenna																
Test Equipment:																
DMCO Horn 1-18GHz		Pre-amplifier 1-26GHz		Spectrum Analyzer		Horn > 18GHz		Limit								
T60; S/N: 1238 @3m		T86 Miteq 924341		Agilent E4446A Analyzer		T117; ARA 18-26GHz; S/N:1013		FCC 15.205								
H-Frequency Cables																
☐ (2 ft) ☒ (2-3 ft) ☐ (4-6 ft) ☒ (12 ft)																
Peak Measurements: 1 MHz Resolution Bandwidth 1 MHz Video Bandwidth Average Measurements: 1 MHz Resolution Bandwidth 10 Hz Video Bandwidth																
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes	
Spurious:																
Harmonics:																
Channel 1 (2412MHz)																
4.824	9.8	53.2	48.8	33.1	4.4	-45.6	0.0	1.0	46.1	41.7	74.0	54.0	-27.9	-12.3	H	
4.824	9.8	58.6	57.5	33.1	4.4	-45.6	0.0	1.0	51.5	50.4	74.0	54.0	-22.5	-3.6	V	
Channel 6 (2437MHz)																
4.874	9.8	53.8	49.3	33.1	4.4	-45.6	0.0	1.0	46.7	42.2	74.0	54.0	-27.3	-11.8	H	
7.311	9.8	52.7	45.0	36.2	5.7	-46.6	0.0	1.0	49.0	41.3	74.0	54.0	-26.0	-12.7	H	
7.311	9.8	57.2	40.6	36.2	5.7	-46.6	0.0	1.0	53.5	36.9	74.0	54.0	-20.5	-17.1	V	
4.874	9.8	55.7	54.1	33.1	4.4	-45.6	0.0	1.0	48.6	47.0	74.0	54.0	-25.4	-7.0	V	
Channel 11 (2462MHz)																
4.924	9.8	59.1	57.3	33.2	4.5	-45.7	0.0	1.0	52.0	50.2	74.0	54.0	-22.0	-3.8	V	
7.386	9.8	48.5	36.6	36.3	5.7	-46.5	0.0	1.0	45.0	33.1	74.0	54.0	-29.0	-20.9	V	
7.386	9.8	48.0	36.6	36.3	5.7	-46.5	0.0	1.0	44.5	33.1	74.0	54.0	-29.5	-20.9	H	
4.924	9.8	57.1	54.8	33.2	4.5	-45.7	0.0	1.0	50.1	47.7	74.0	54.0	-23.9	-6.3	H	
35.5																
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									

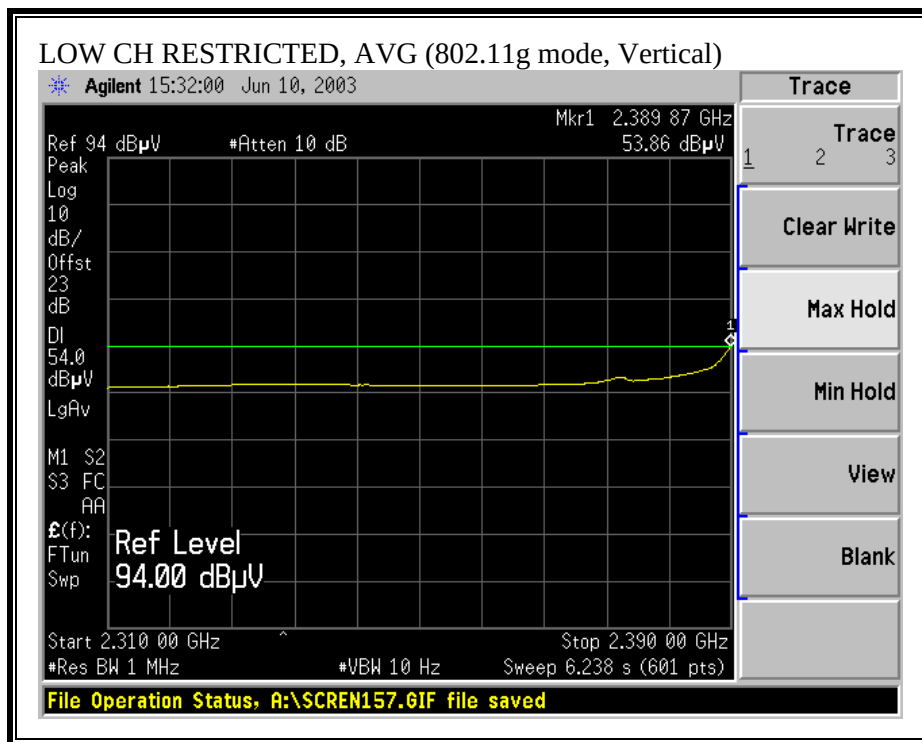
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



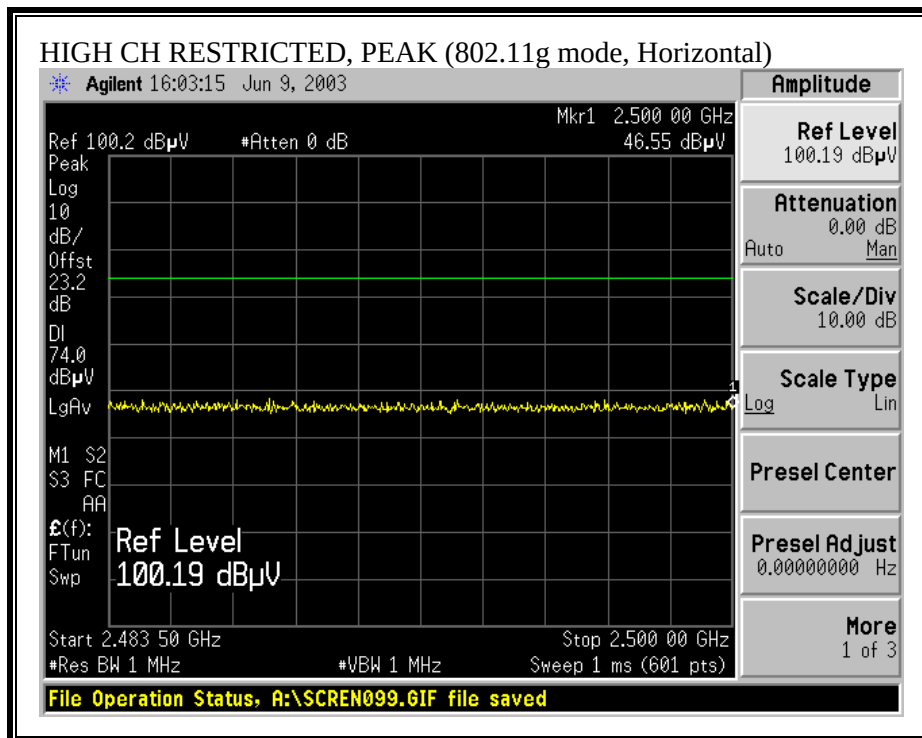


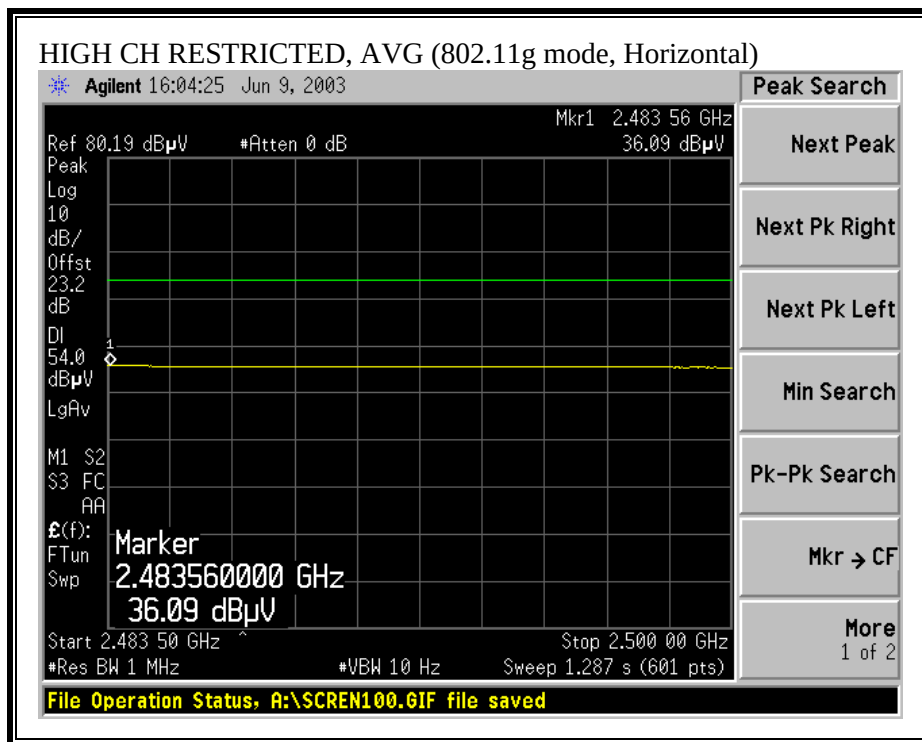
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



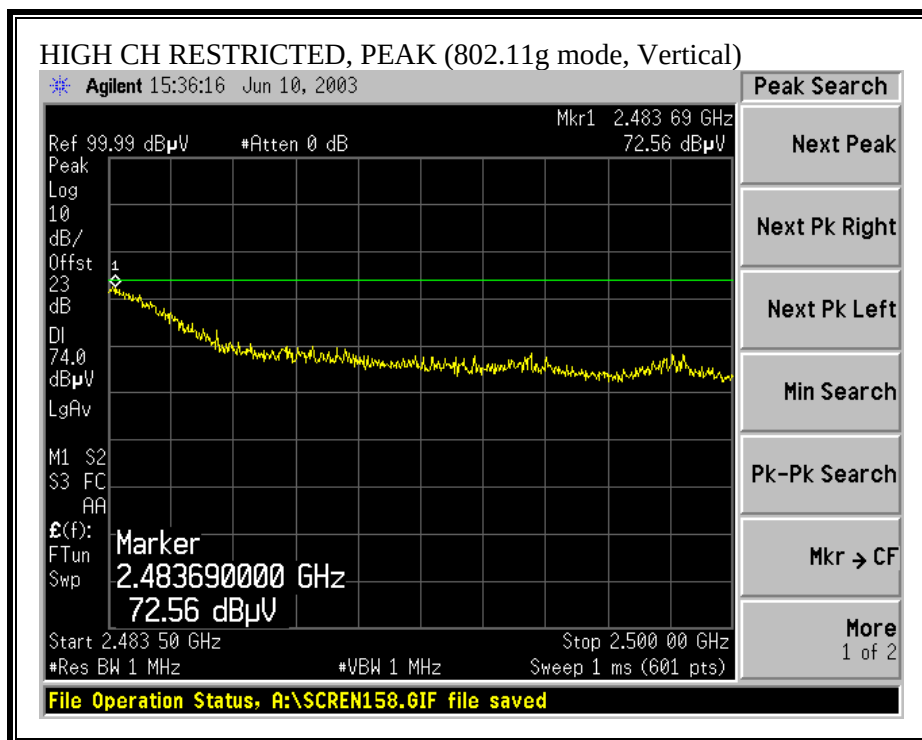


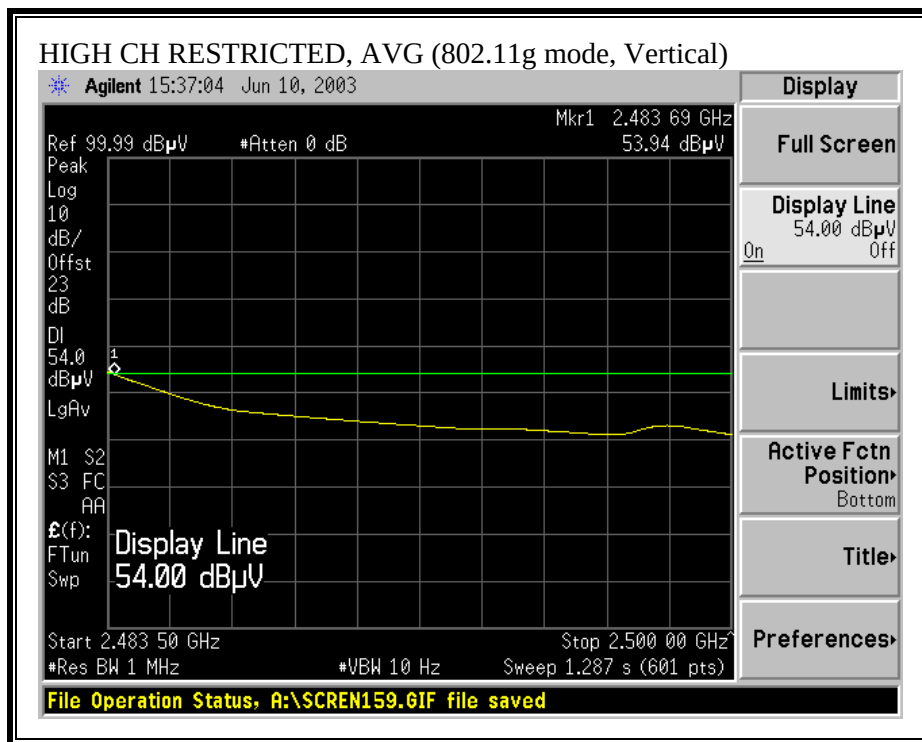
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)



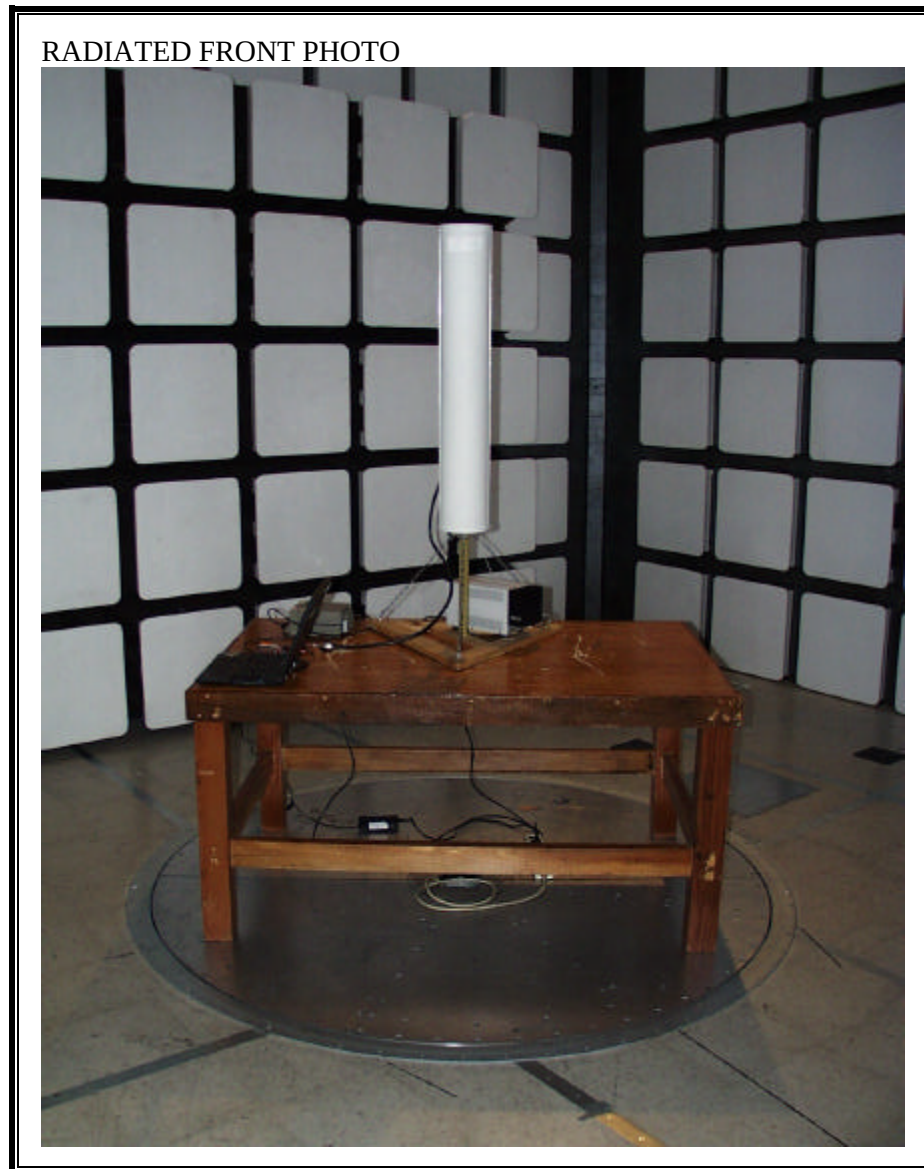


HARMONICS AND SPURIOUS EMISSIONS (g MODE)

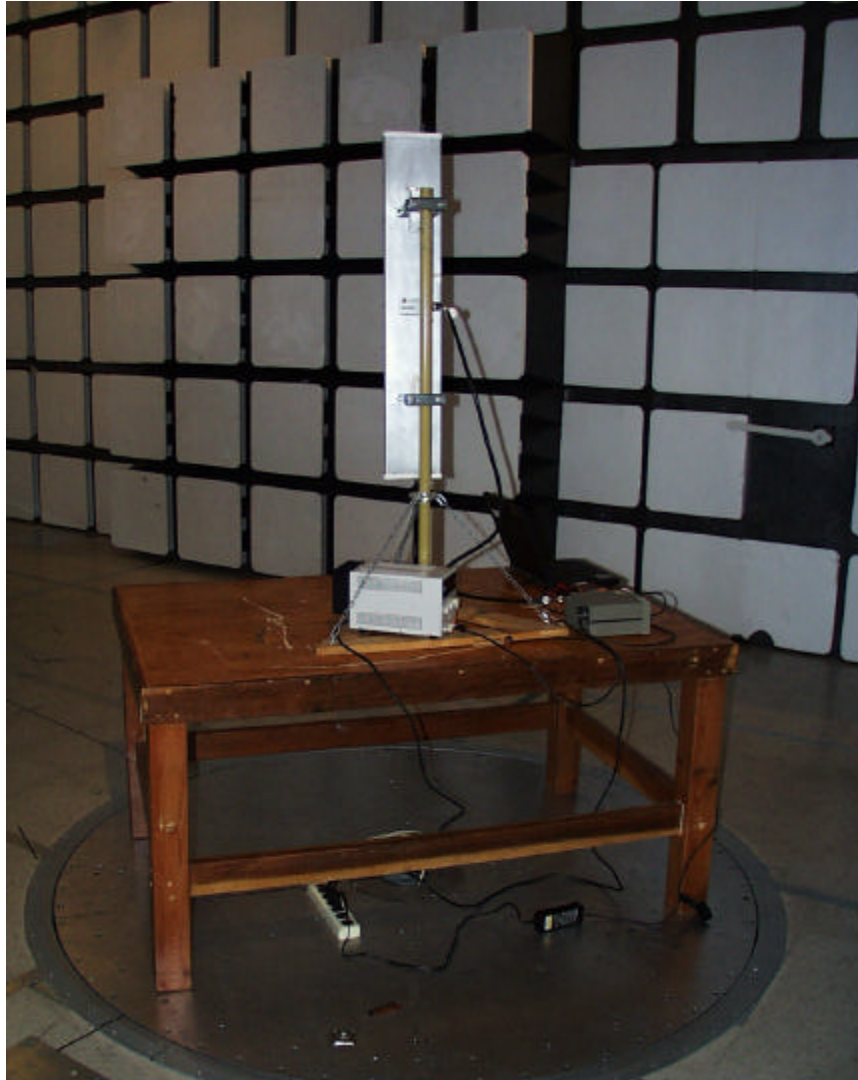
05/10/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site																
Test Engr: Yan Zheng																
Project #:																
Company: Cisco																
EUT Descrip.: AIR-CT510G-A-K9																
EUT M/N: SMT07210013																
Test Target:																
Mode Oper: Transmit, g Mode, with 13.5dBi Yagi Antenna																
Test Equipment:																
DMCO Horn 1-18GHz		Pre-amplifier 1-26GHz		Spectrum Analyzer		Horn > 18GHz		Limit								
T60; S/N: 1238 @3m		T86 Miteq 924341		Agilent E4446A Analyzer		T117; ARA 18-26GHz; S/N:1013		FCC 15.205								
HF Frequency Cables																
☐ (2 ft) ☒ (2-3 ft) ☐ (4-6 ft) ☒ (12 ft)																
Peak Measurements: Average Measurements: 1 MHz Resolution Bandwidth 1 MHz Resolution Bandwidth 1 MHz Video Bandwidth 10 Hz Video Bandwidth																
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes	
Spurious:																
Harmonics:																
Channel 1 (2412MHz)																
4.824	9.8	53.2	50.2	33.1	4.4	-45.6	0.0	1.0	46.1	43.1	74.0	54.0	-27.9	-10.9	H	
4.824	9.8	58.7	57.6	33.1	4.4	-45.6	0.0	1.0	51.6	50.5	74.0	54.0	-22.4	-3.5	V	
Channel 6 (2437MHz)																
4.874	9.8	53.4	49.7	33.1	4.4	-45.6	0.0	1.0	46.3	42.6	74.0	54.0	-27.7	-11.4	H	
7.311	9.8	52.7	45.0	36.2	5.7	-46.6	0.0	1.0	49.0	41.3	74.0	54.0	-26.0	-12.7	H	
7.311	9.8	57.2	40.6	36.2	5.7	-46.6	0.0	1.0	53.5	36.9	74.0	54.0	-20.5	-17.1	V	
4.874	9.8	56.8	54.2	33.1	4.4	-45.6	0.0	1.0	49.7	47.2	74.0	54.0	-24.3	-6.8	V	
Channel 11 (2462MHz)																
4.924	9.8	59.1	57.6	33.2	4.5	-45.7	0.0	1.0	52.0	50.5	74.0	54.0	-22.0	-3.5	V	
7.386	9.8	48.5	36.6	36.3	5.7	-46.5	0.0	1.0	45.0	33.1	74.0	54.0	-29.0	-20.9	V	
7.386	9.8	48.0	36.6	36.3	5.7	-46.5	0.0	1.0	44.5	33.1	74.0	54.0	-29.5	-20.9	H	
4.924	9.8	57.8	55.2	33.2	4.5	-45.7	0.0	1.0	50.7	48.1	74.0	54.0	-23.3	-5.9	H	
35.5																
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									

7.9.6. RADIATED EMISSIONS WITH 15 dBi SECTOR ANTENNA

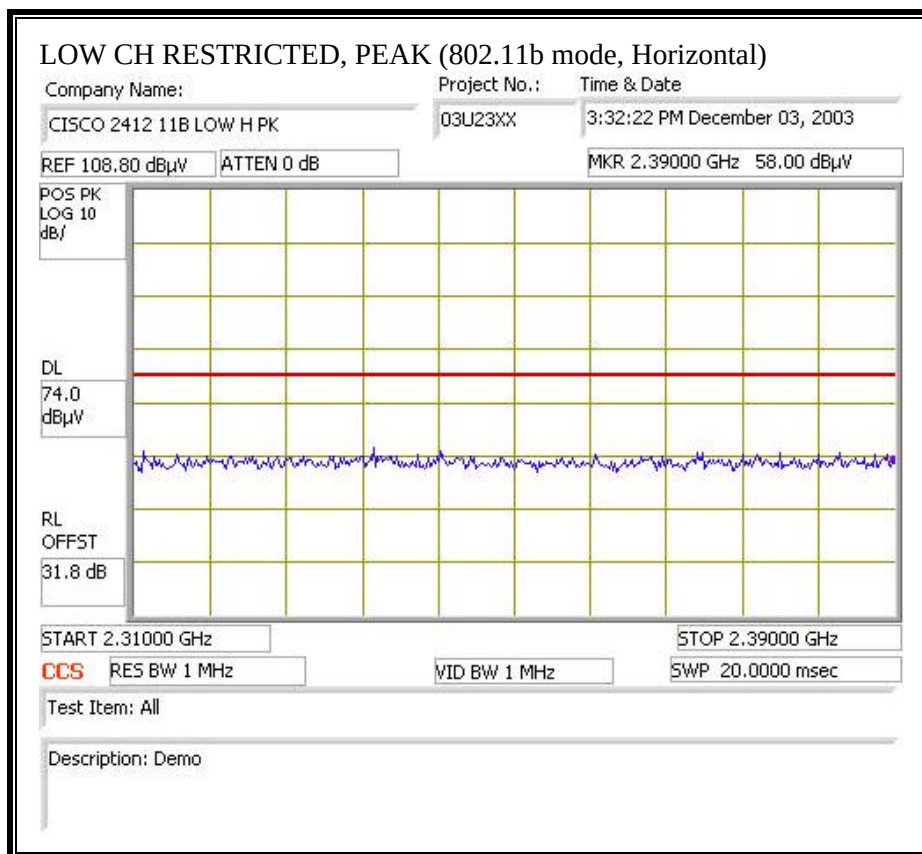
RADIATED RF MEASUREMENT SETUP

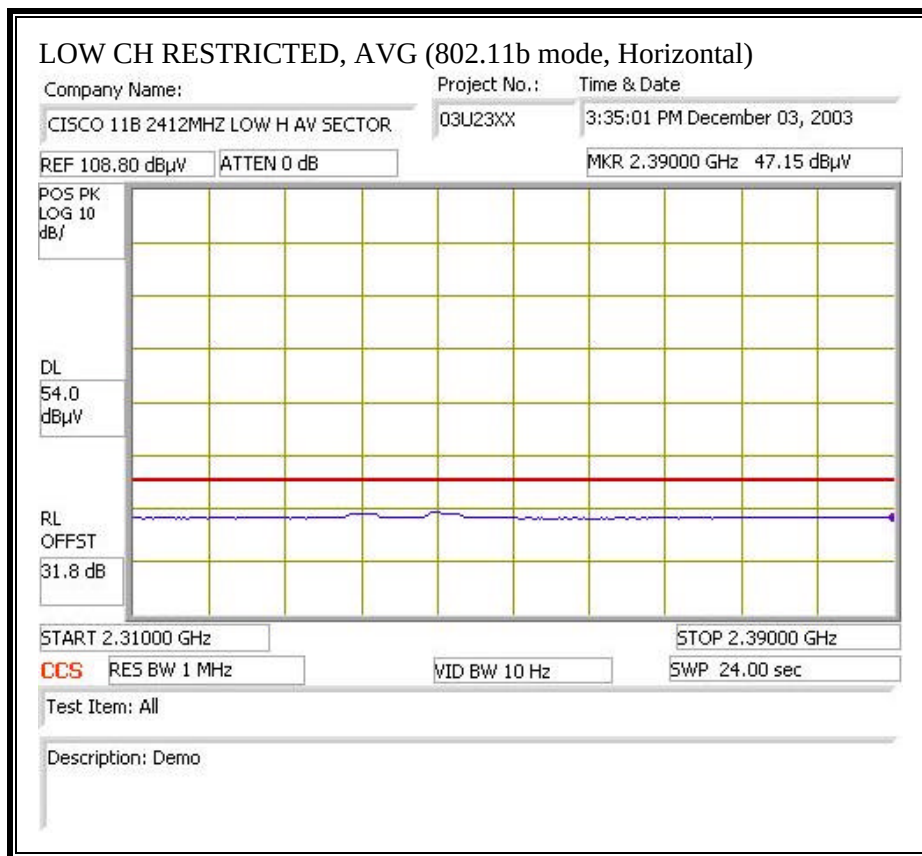


RADIATED BACK PHOTO

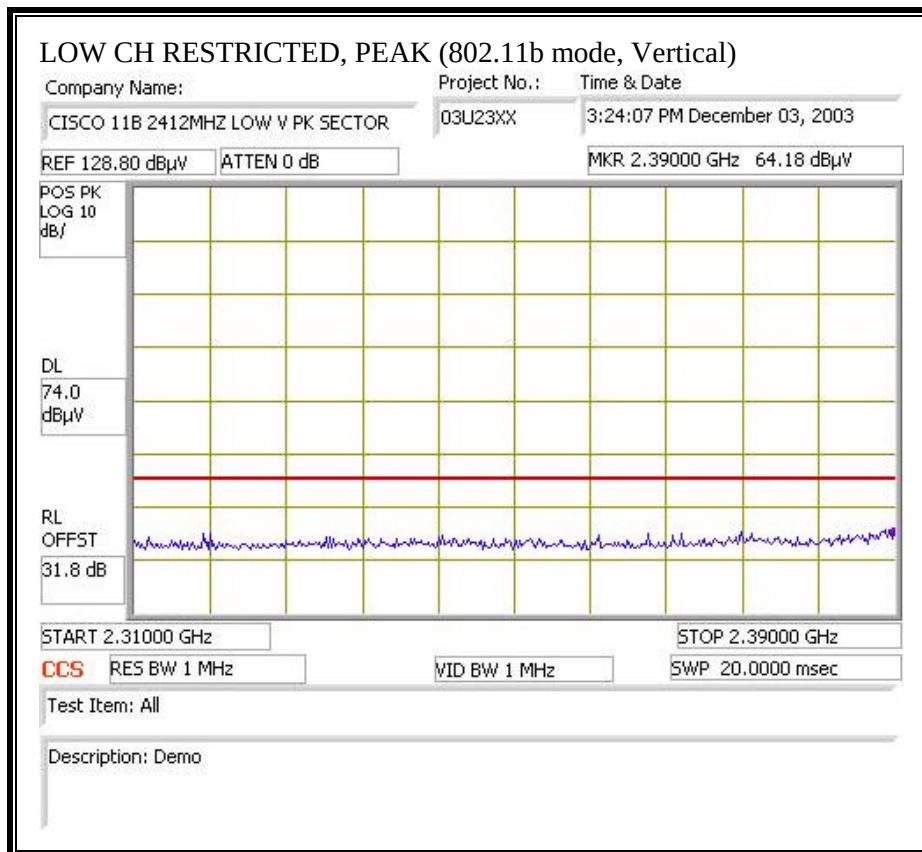


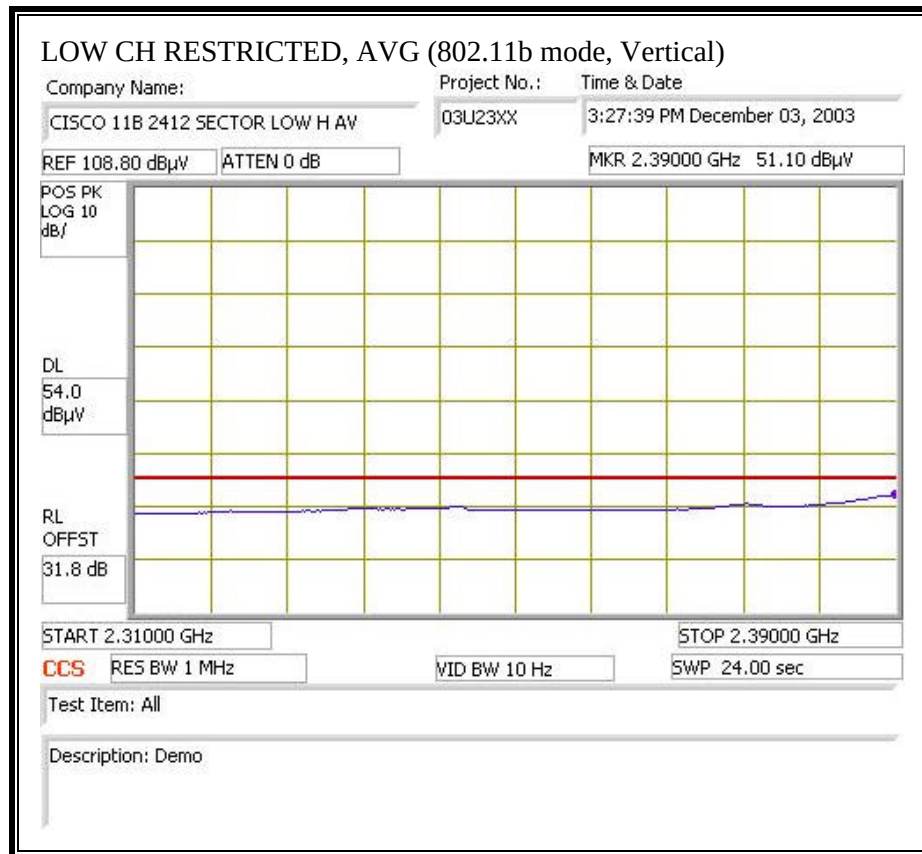
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



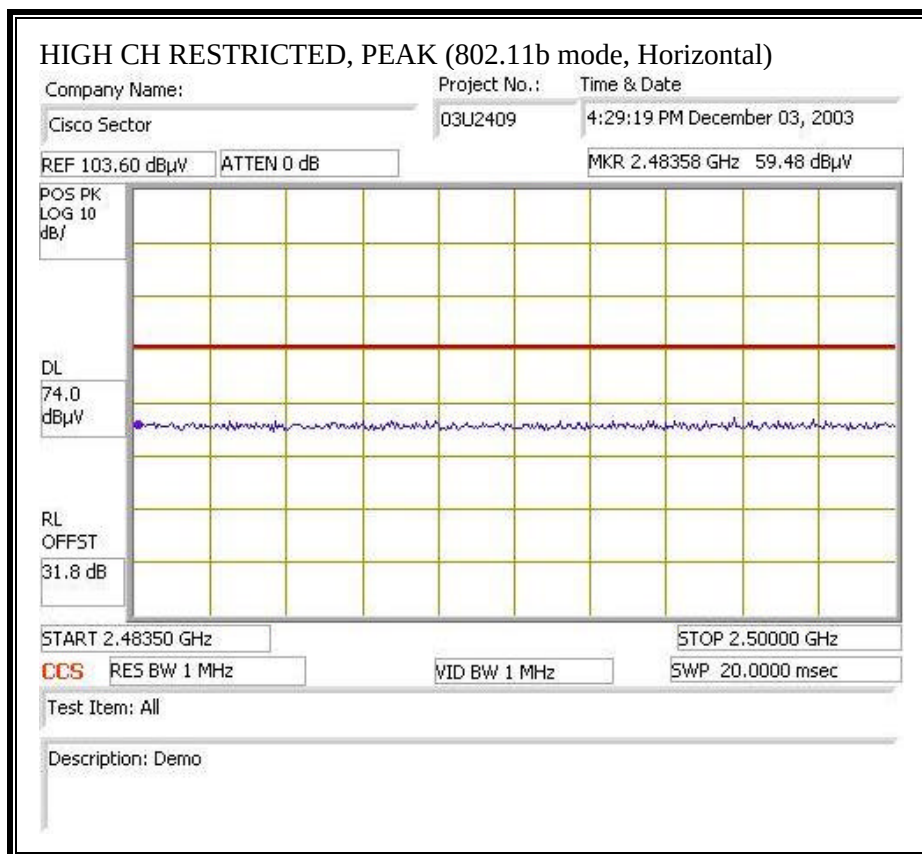


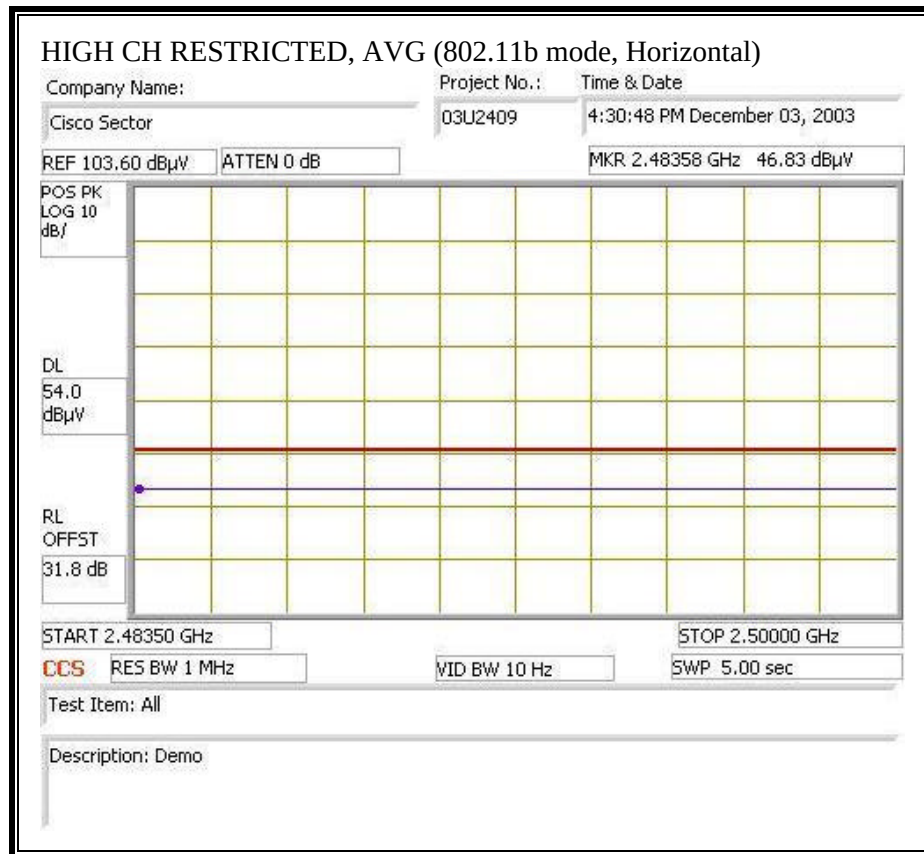
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



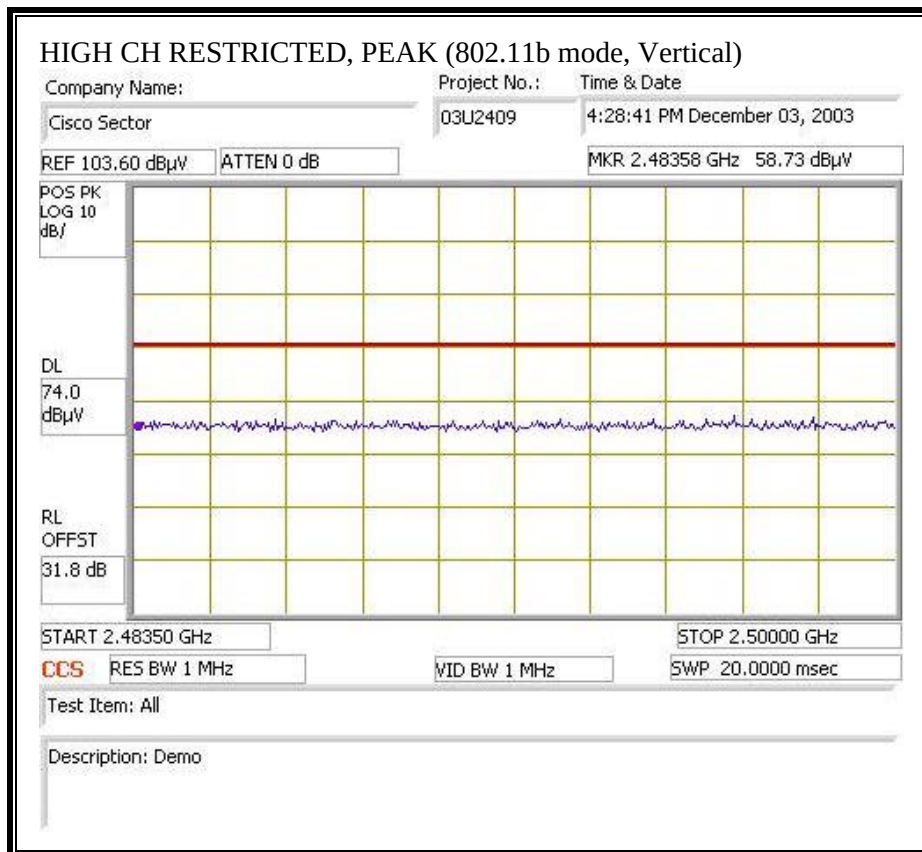


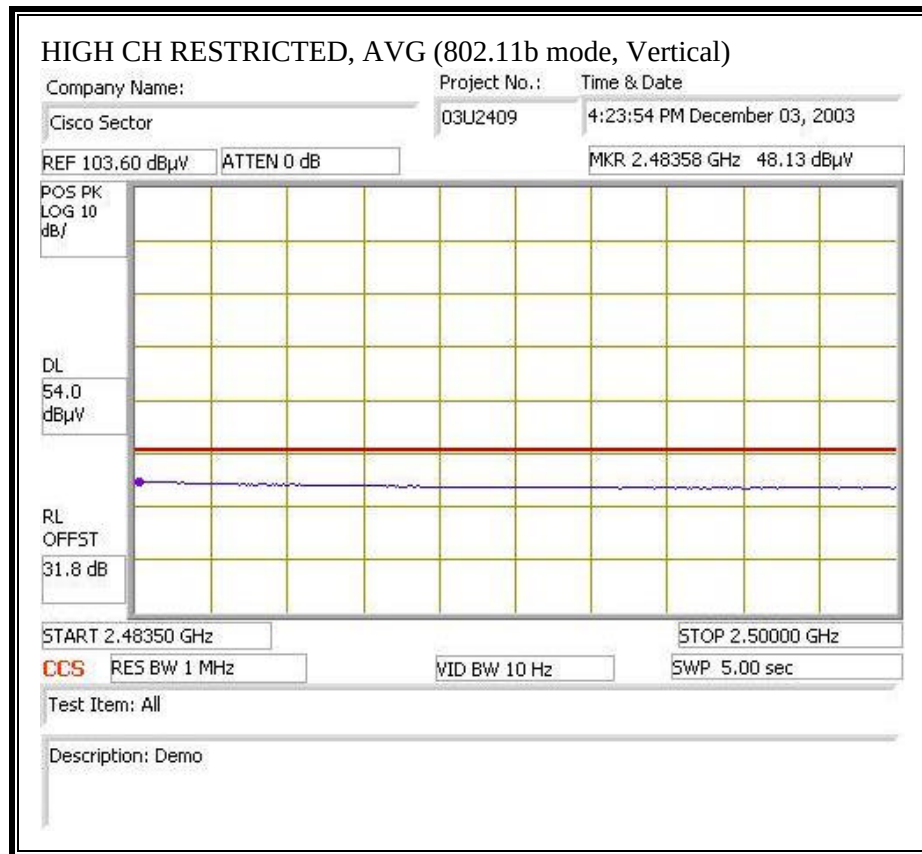
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

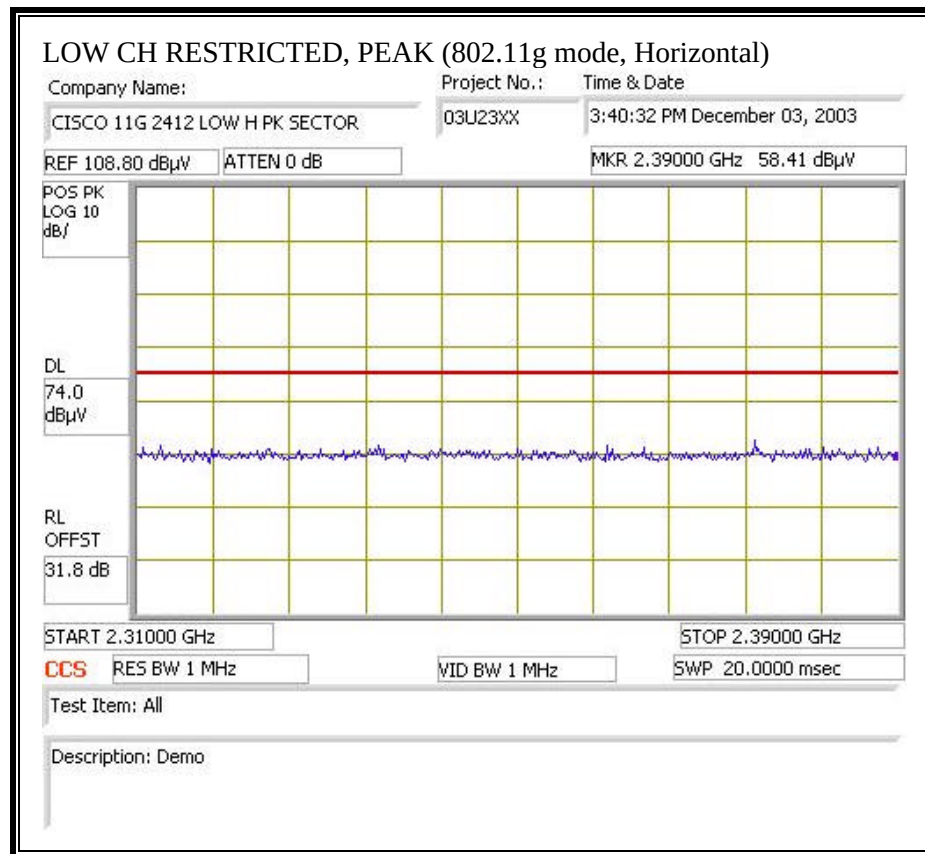


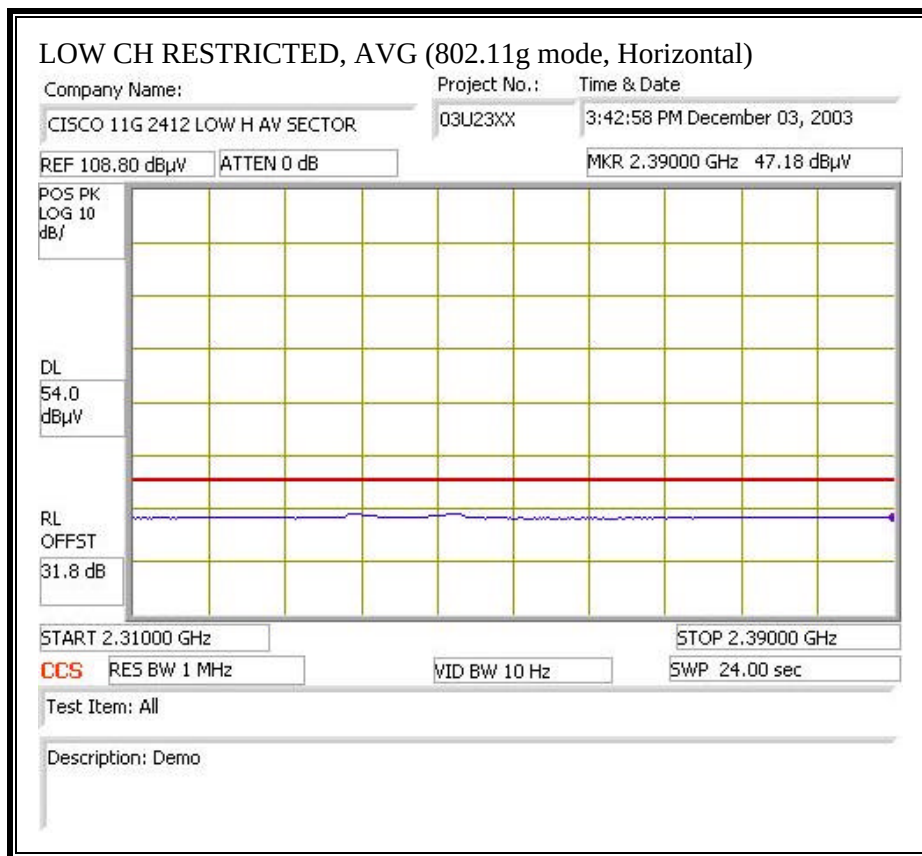


HARMONICS AND SPURIOUS EMISSIONS (b MODE)

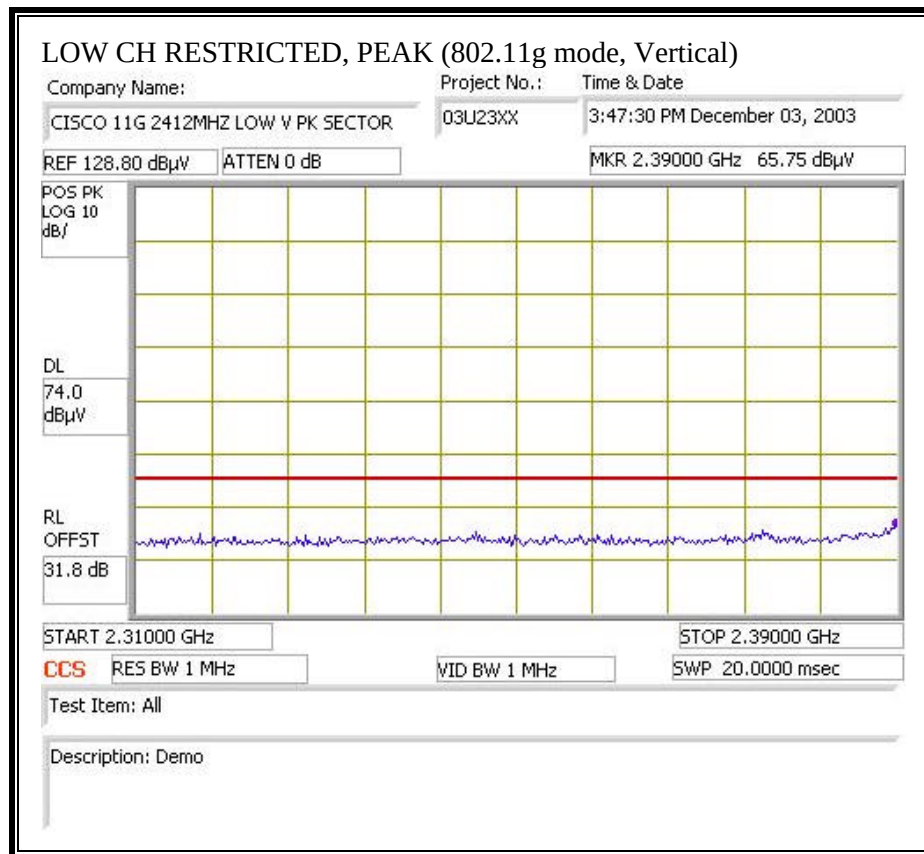
12/09/03 High Frequency Measurement Compliance Certification Services, Morgan Hill Open Field Site															
Test Engr: Ben Du Project #: 03U2409 Company: CISCO EUT Descr: WLAN Card EUT M/N: Test Target: FCC 15 B Mode Oper: Tx, b mode, with 15dBi Sector Antenna															
Test Equipment:															
DMCO Horn 1-18GHz T69; S/N: 3245 @3m		Pre-amplifier 1-26GHz T86 M10q 924341		Spectrum Analyzer Agilent E4446A Analyzer		Horn > 18GHz		Limit FCC 15.205							
H Frequency Cables ☐ (2 ft) ☒ (2-3 ft) ☐ (4-6 ft) ☒ (12 ft)															
Peak Measurements: 1 MHz Resolution Bandwidth 1 MHz Video Bandwidth															
Average Measurements: 1 MHz Resolution Bandwidth 10 Hz Video Bandwidth															
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
Tx at 2.412GHz															
4.824	9.8	50.1	38.2	33.1	3.1	-45.6	0.0	1.0	41.7	29.8	74.0	54.0	-32.3	-24.2	V
4.824	9.8	47.8	39.2	33.1	3.1	-45.6	0.0	1.0	39.4	30.8	74.0	54.0	-34.6	-23.2	H
Tx at 2.437GHz															
4.874	9.8	49.8	38.1	33.1	3.2	-45.6	0.0	1.0	41.4	29.7	74.0	54.0	-32.6	-24.3	V
7.311	9.8	41.1	32.3	36.0	4.1	-46.6	0.0	1.0	35.6	26.8	74.0	54.0	-38.4	-27.2	V
4.874	9.8	46.2	38.9	33.1	3.2	-45.6	0.0	1.0	37.8	30.5	74.0	54.0	-36.2	-23.5	H
7.311	9.8	42.1	33.1	36.0	4.1	-46.6	0.0	1.0	36.6	27.6	74.0	54.0	-37.4	-26.4	H
Tx at 2.62GHz															
4.924	9.8	50.3	39.0	33.1	3.2	-45.7	0.0	1.0	41.9	30.6	74.0	54.0	-32.1	-23.4	V
7.386	9.8	41.6	32.4	36.1	4.1	-46.5	0.0	1.0	36.2	27.0	74.0	54.0	-37.8	-27.0	V
4.924	9.8	47.9	39.5	33.1	3.2	-45.7	0.0	1.0	39.5	31.1	74.0	54.0	-34.5	-22.9	H
7.386	9.8	40.9	32.9	36.1	4.1	-46.5	0.0	1.0	35.5	27.5	74.0	54.0	-38.5	-26.5	H
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										

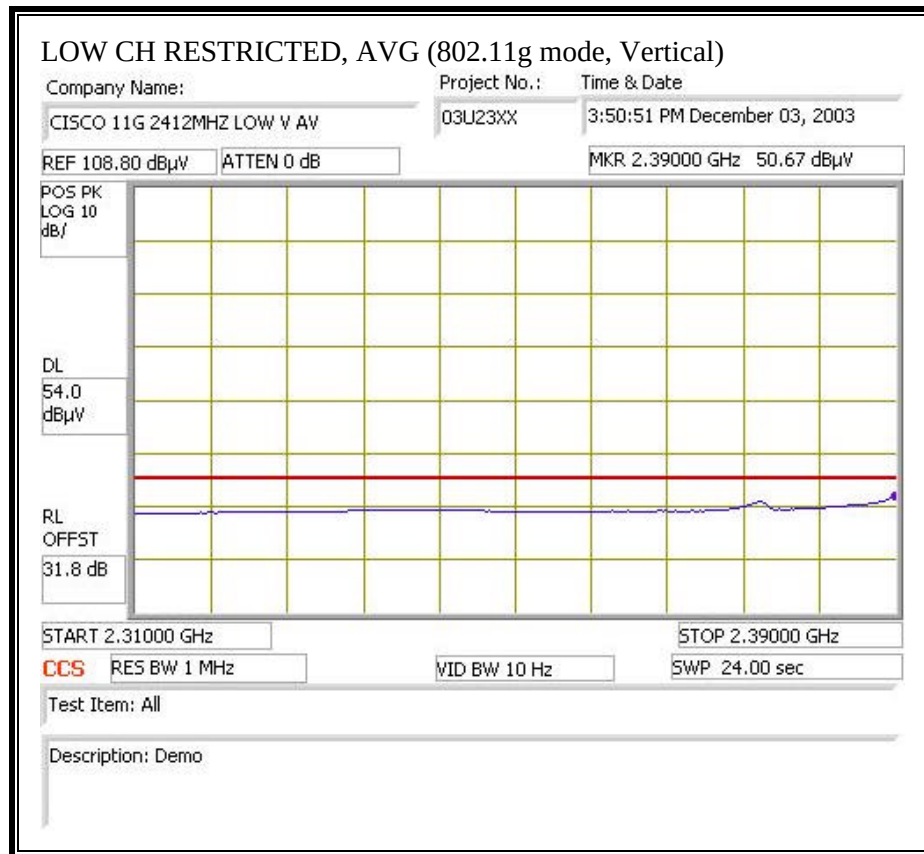
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)





RESTRICTED BANDEDGE (a MODE, HIGH CHANNEL, HORIZONTAL)

