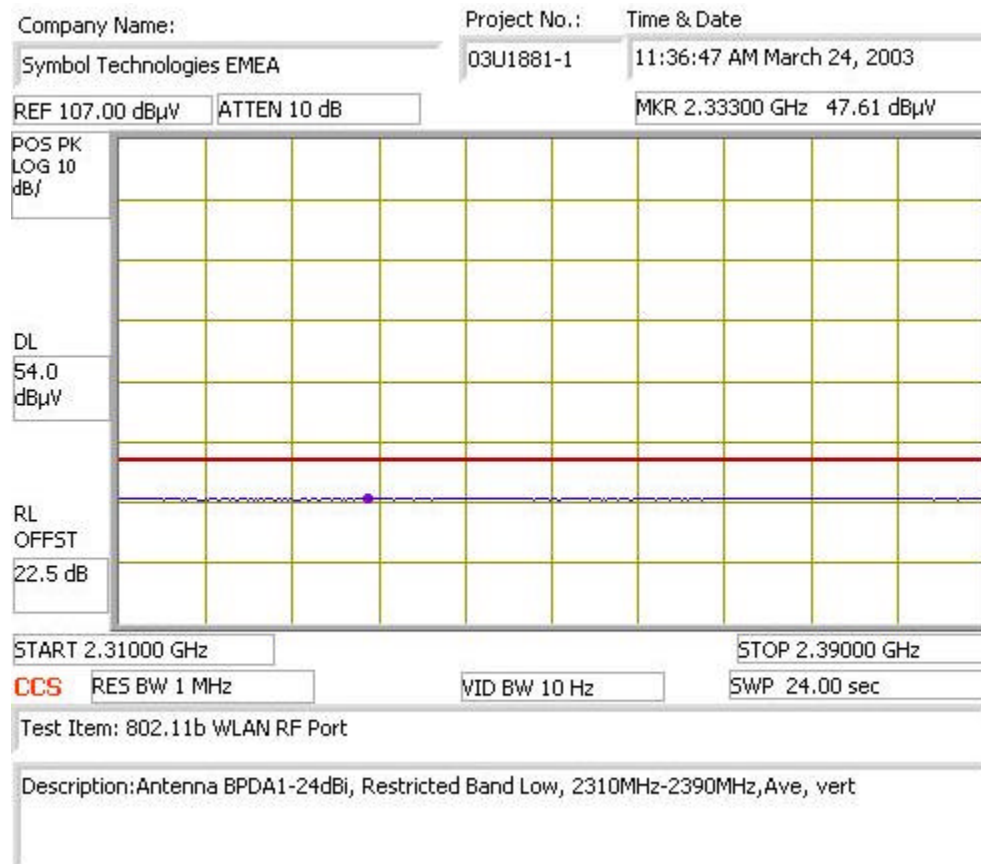
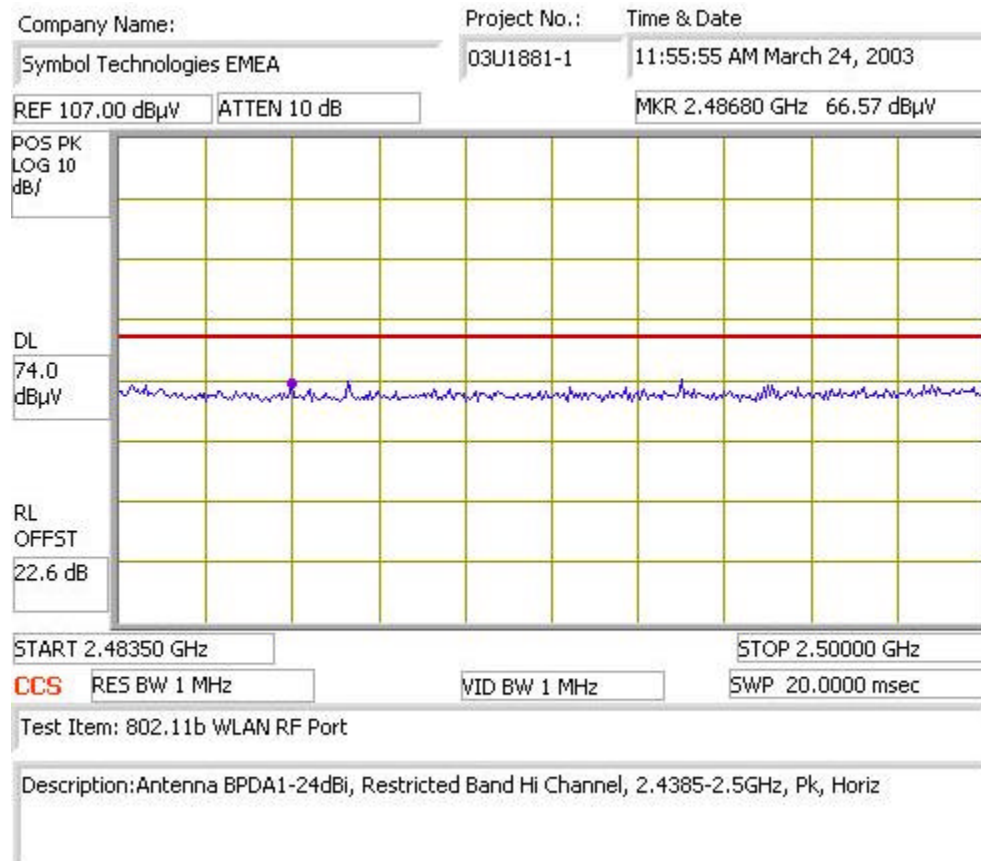
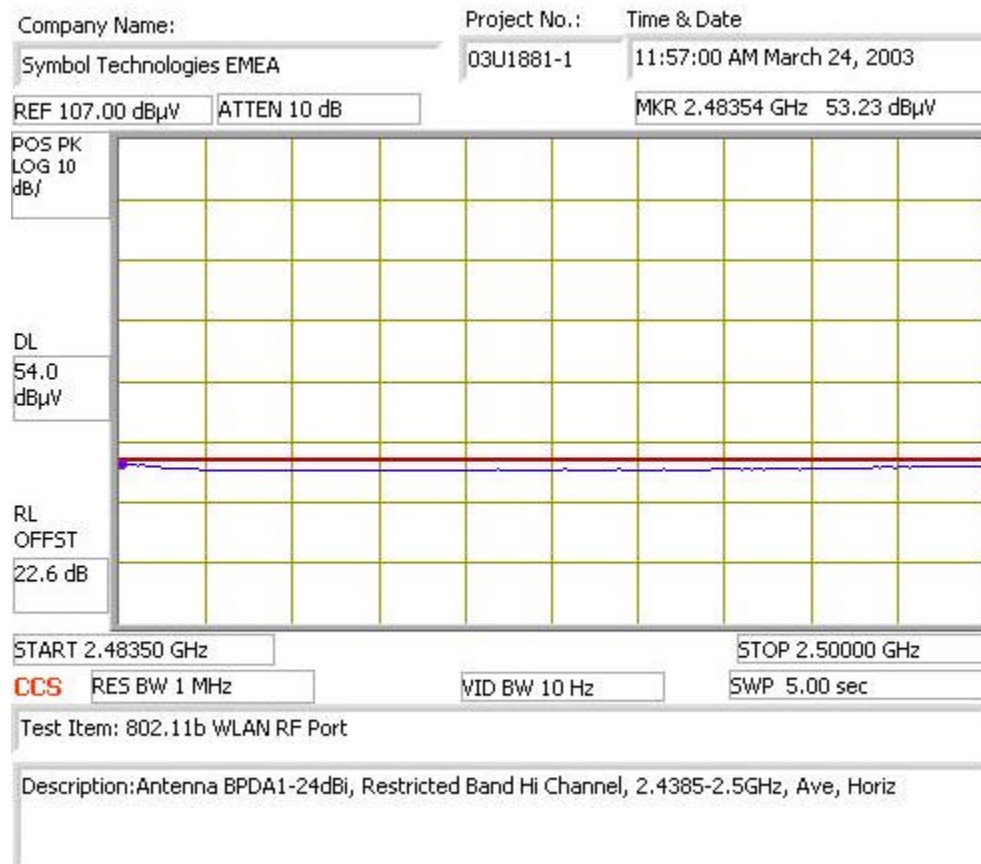


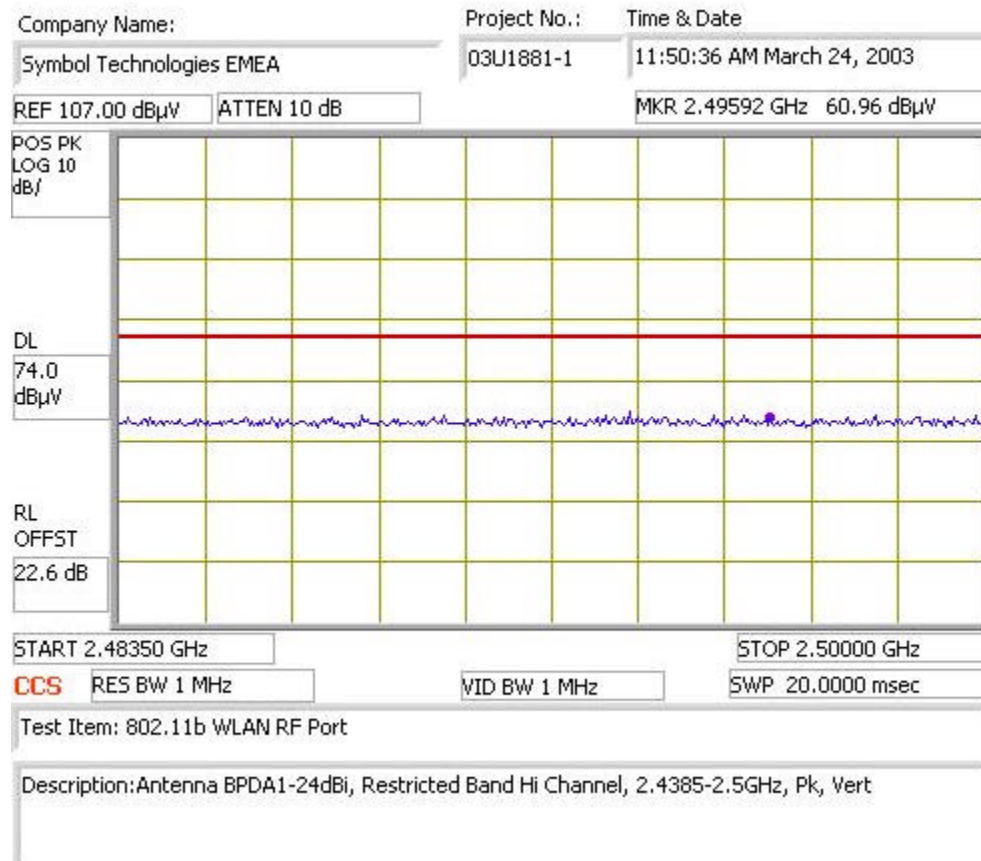


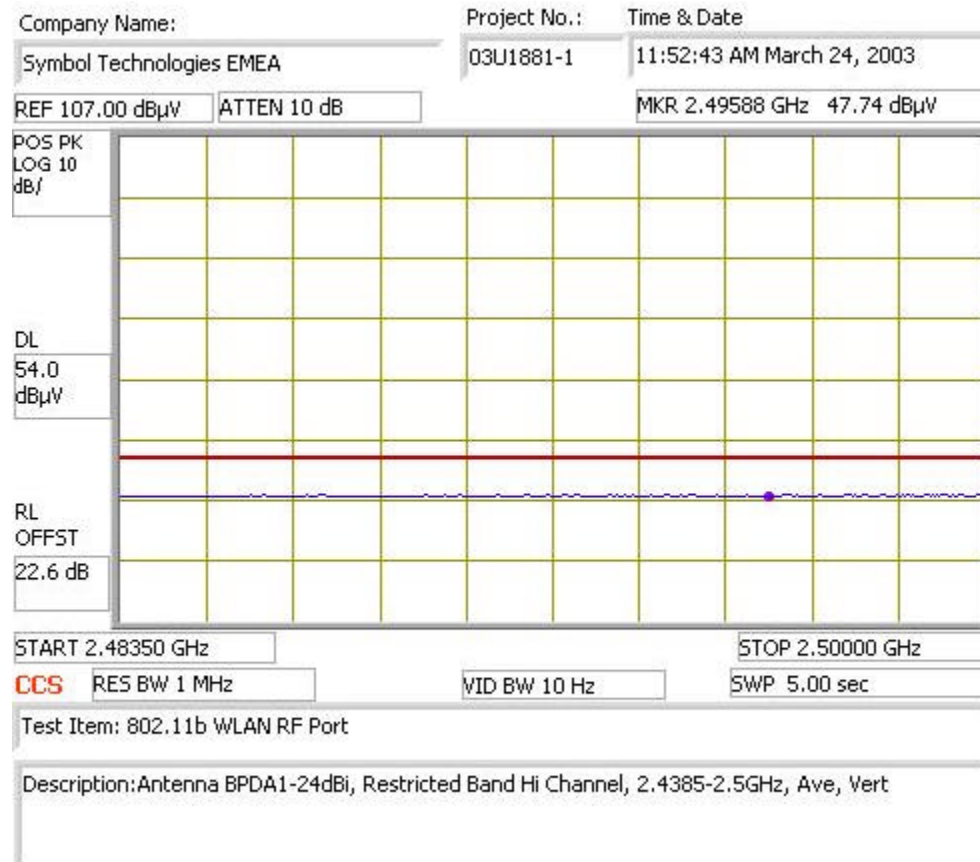
ADJACENT RESTRICTED BAND (HIGH CHANNEL, HORIZONTAL)





ADJACENT RESTRICTED BAND (HIGH CHANNEL, VERTICAL)





HARMONIC AND SPURIOUS RADIATED EMISSIONS

03/26/03 High Frequency Measurement
Compliance Certification Services, Morgan Hill Open Field Site

Test Engr: Chin Pang
Project #:03U1881-1
Company:Symbol Technologies EMEA
EUT Descrip.:802.11b WLAN RF Port
EUT M/N:BPDA1
Test Target:FCC 15.247
Mode Oper: Tx

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T73; S/N: 6717 @1m	Miteq NSP2600-44	8593EM Analyzer	

Hi Frequency Cables

☒ (2 ft) ☐ (2 ~ 3 ft) ☐ (4 ~ 6 ft) ☒ (12 ft)

Peak Measurements:
1 MHz Resolution Bandwidth
1MHz Video Bandwidth

Average Measurements:
1 MHz Resolution Bandwidth
10Hz 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
Transmitting on Low Channel															
4.824	9.8	44.5	33.3	33.9	3.9	-36.1	0.0	1.0	47.2	36.0	74.0	54.0	-26.8	-18.0	V
4.824	9.8	44.6	33.4	33.9	3.9	-36.1	0.0	1.0	47.3	36.1	74.0	54.0	-26.7	-17.9	H
Transmitting on Mid Channel															
4.874	9.8	46.0	34.0	33.9	4.0	-36.1	0.0	1.0	48.8	36.8	74.0	54.0	-25.2	-17.2	V
4.824	9.8	48.4	35.8	33.9	3.9	-36.1	0.0	1.0	51.1	38.5	74.0	54.0	-22.9	-15.5	H
Transmitting on High Channel															
4.924	9.8	49.9	36.7	34.0	4.0	-36.1	0.0	1.0	52.8	39.6	74.0	54.0	-21.2	-14.4	V
4.924	9.8	55.0	40.4	34.0	4.0	-36.1	0.0	1.0	57.8	43.3	74.0	54.0	-16.2	-10.7	H

No other emissions were detected above the system noise floor.

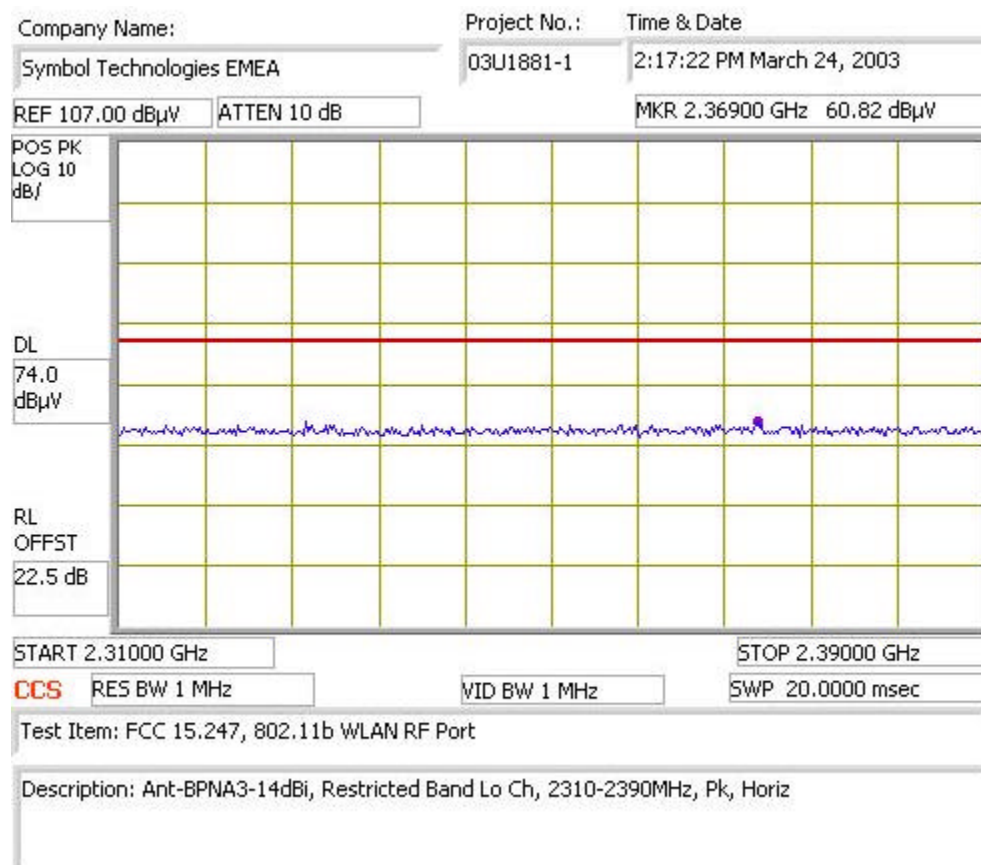
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

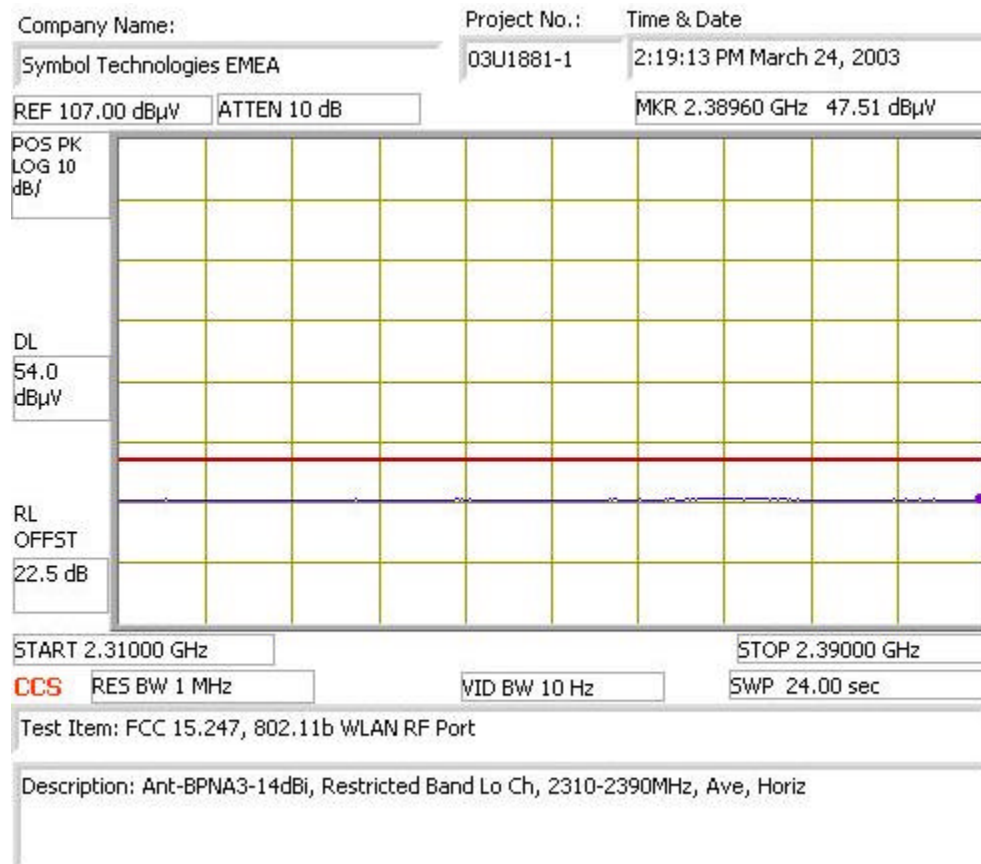
7.7.2. PANEL ANTENNA RESULTS

SETUP PHOTO

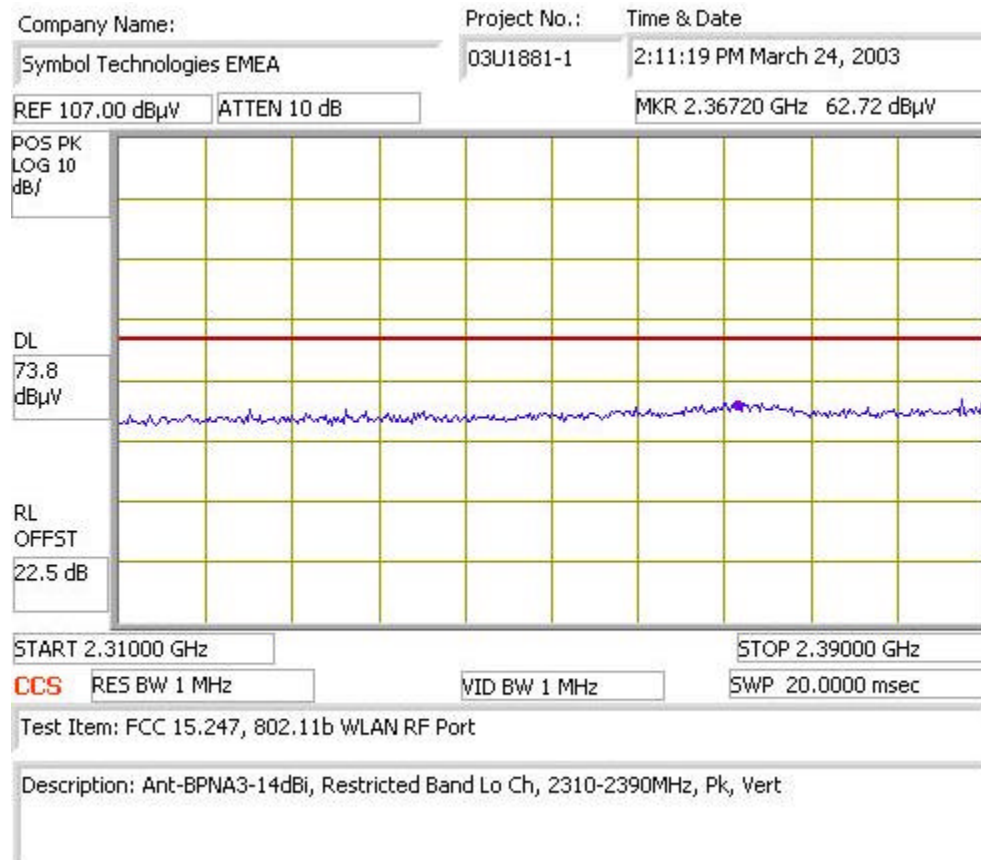


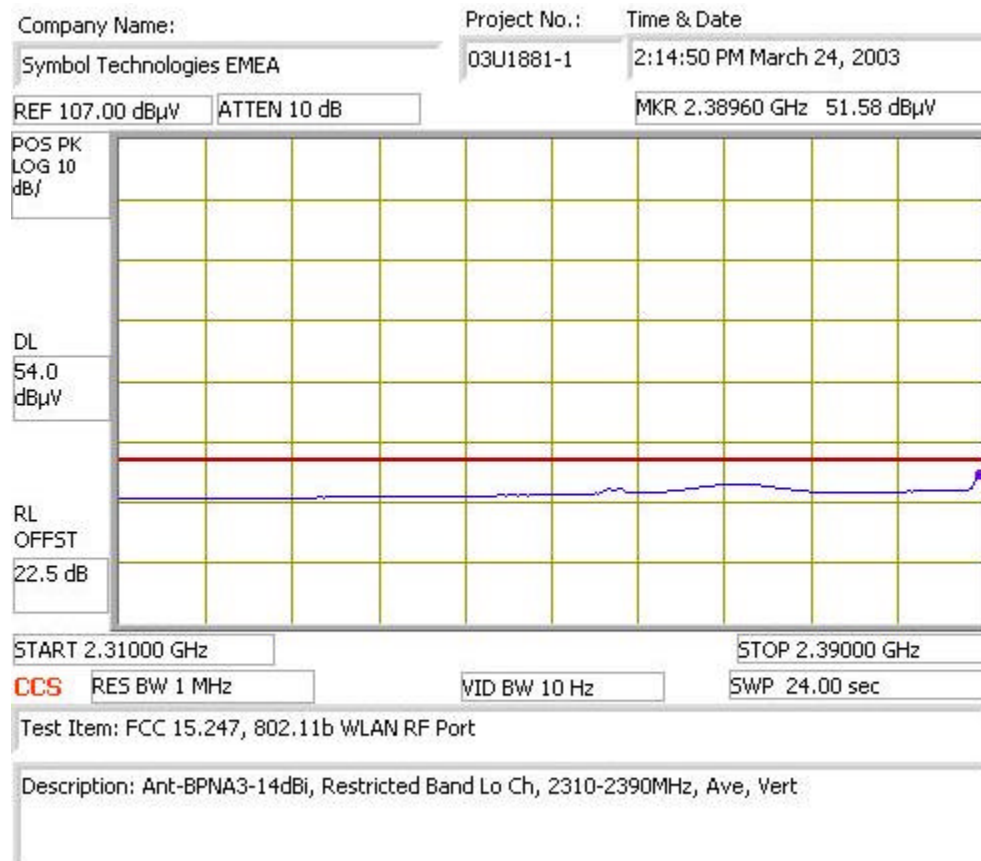
ADJACENT RESTRICTED BAND (LOW CHANNEL, HORIZONTAL)



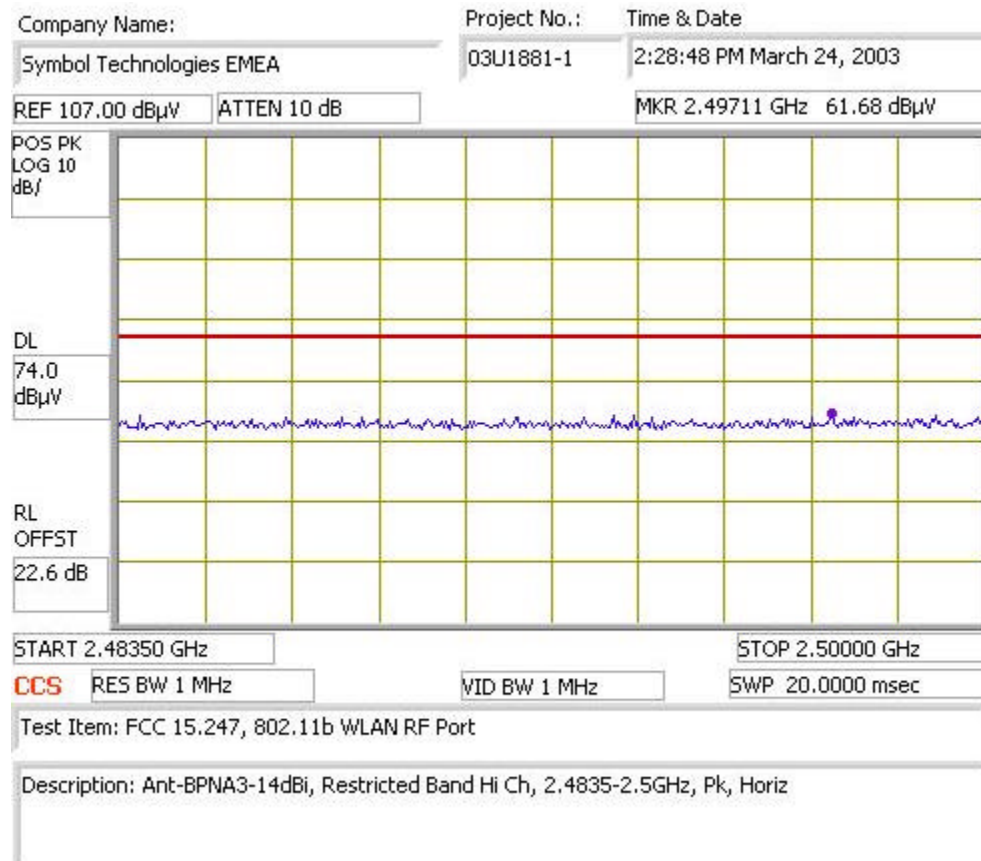


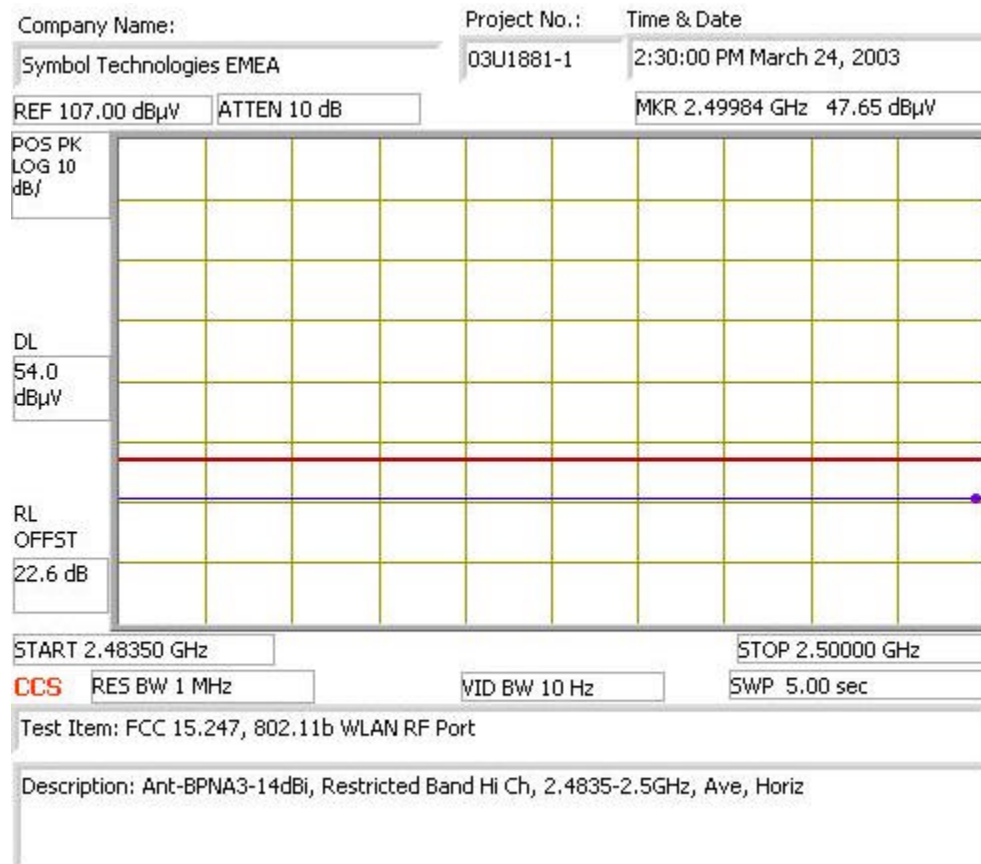
ADJACENT RESTRICTED BAND (LOW CHANNEL, VERTICAL)



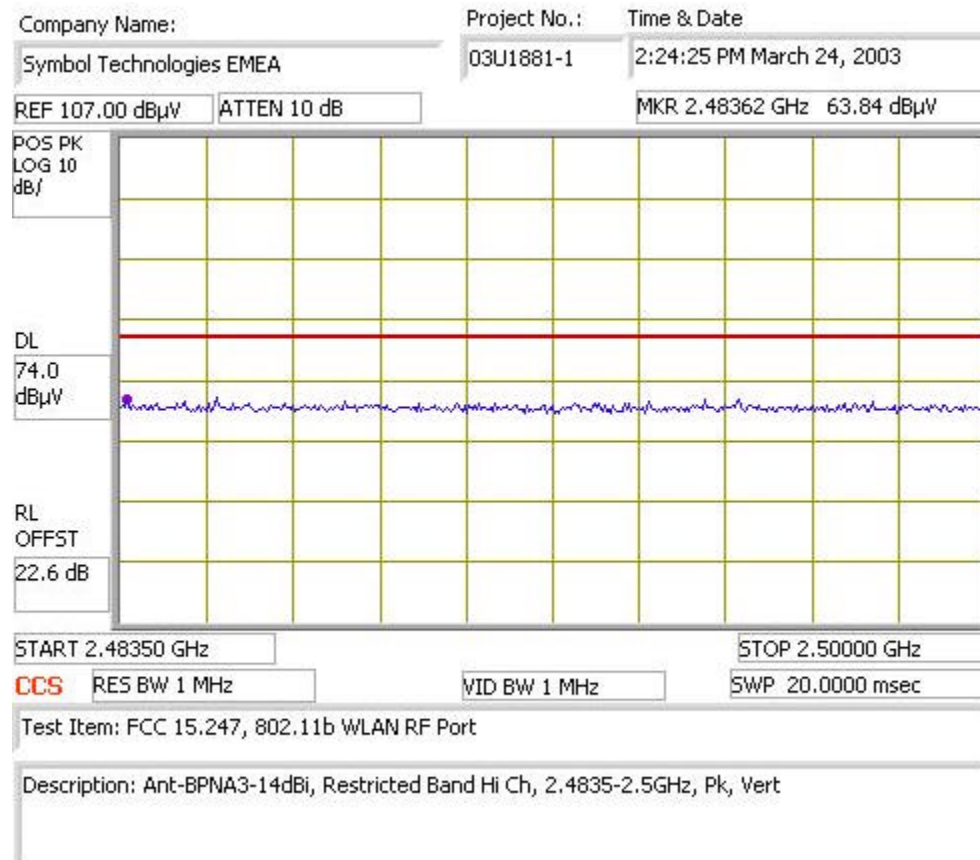


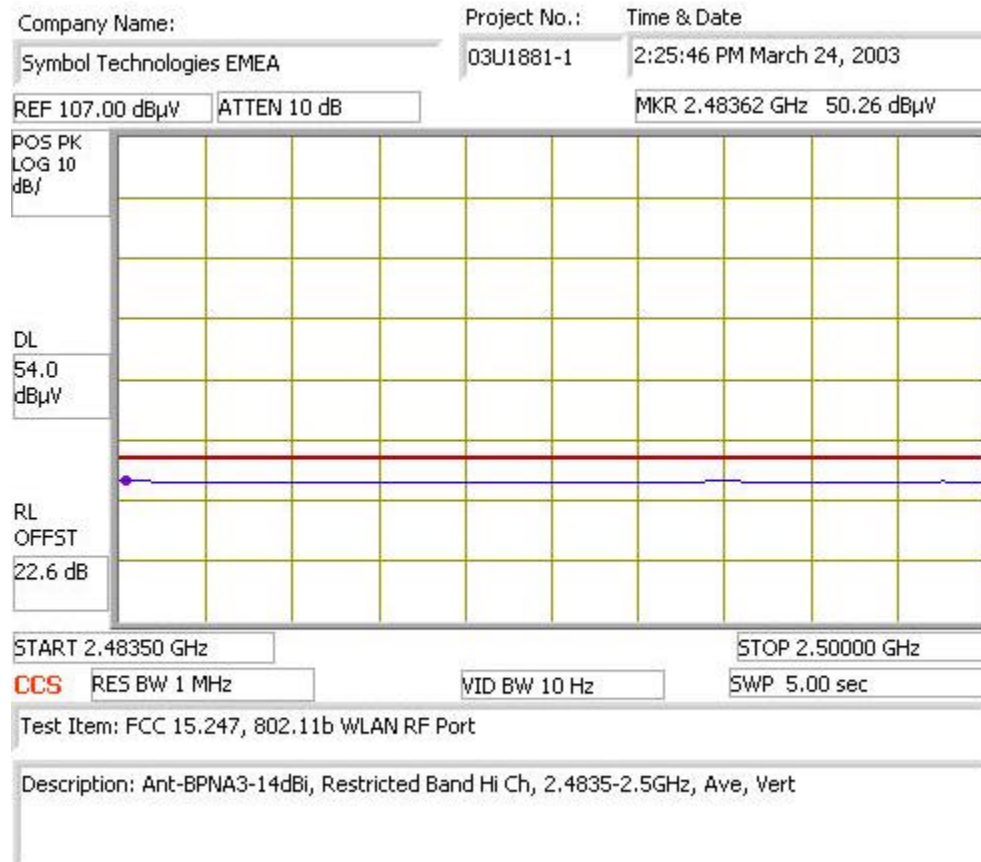
ADJACENT RESTRICTED BAND (HIGH CHANNEL, HORIZONTAL)





ADJACENT RESTRICTED BAND (HIGH CHANNEL, VERTICAL)





HARMONIC AND SPURIOUS RADIATED EMISSIONS

Test Engr: Chin Pang
Project #:03U1881-1
Company:Symbol Technologies EMEA
EUT Descip.:802.11b WLAN RF Port
EUT M/N:BPNA3
Test Target:FCC 15.247
Mode Oper: Tx

Test Equipment:

EMCO Horn 1-18GHz	Pre-amplifier 1-26GHz	Spectrum Analyzer	Horn > 18GHz
T73; S/N: 6717 @1m	Miteq NSP2600-44	8593EM Analyzer	

Hi Frequency Cables

☒ (2 ft)	☐ (2 ~ 3 ft)	☐ (4 ~ 6 ft)	☒ (12 ft)
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Peak Measurements:

1 MHz Resolution Bandwidth
1MHz Video Bandwidth

Average Measurements:

1 MHz Resolution Bandwidth
10Hz 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
Transmitting on Low Channel															
4.824	9.8	44.9	33.3	33.9	3.9	-36.1	0.0	1.0	47.6	36.0	74.0	54.0	-26.4	-18.0	V
4.824	9.8	45.6	33.4	33.9	3.9	-36.1	0.0	1.0	48.3	36.1	74.0	54.0	-25.7	-17.9	H
Transmitting on Mid Channel															
4.874	9.8	45.0	33.3	33.9	4.0	-36.1	0.0	1.0	47.8	36.1	74.0	54.0	-26.2	-17.9	V
4.824	9.8	45.2	33.3	33.9	3.9	-36.1	0.0	1.0	47.9	36.0	74.0	54.0	-26.1	-18.0	H
Transmitting on High Channel															
4.924	9.8	44.8	33.3	34.0	4.0	-36.1	0.0	1.0	47.7	36.1	74.0	54.0	-26.3	-17.9	V
4.924	9.8	44.9	33.3	34.0	4.0	-36.1	0.0	1.0	47.7	36.2	74.0	54.0	-26.3	-17.8	H

No other emissions were detected above the system noise floor.

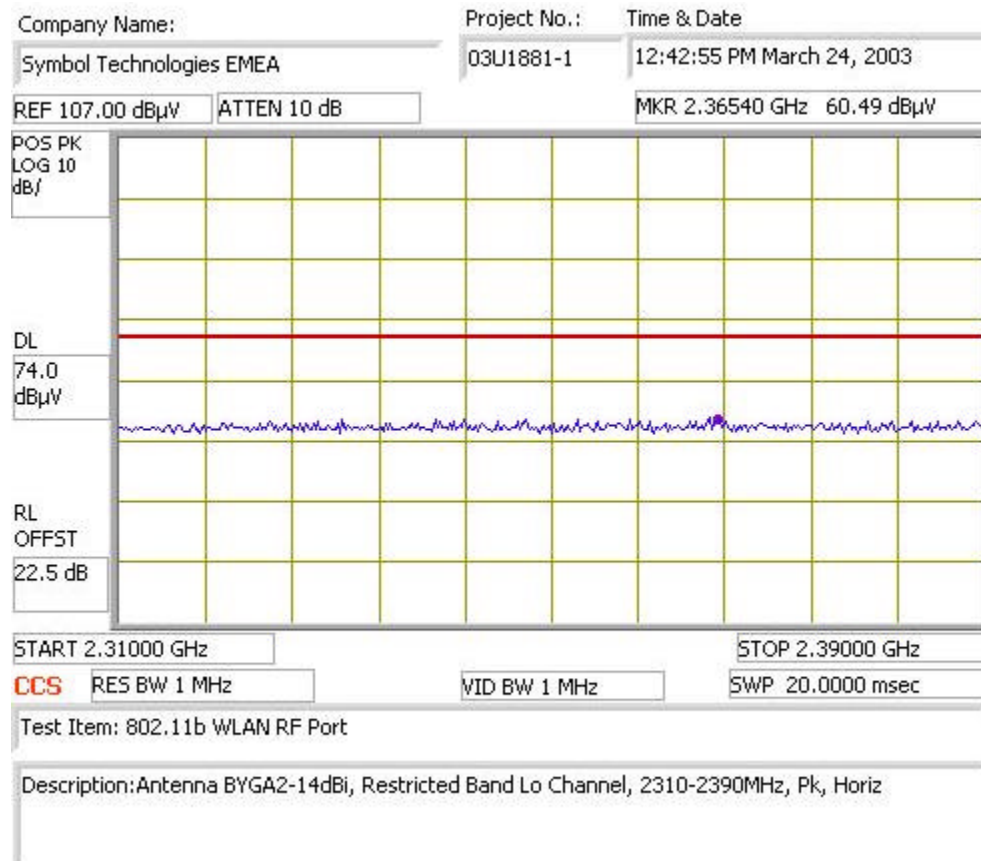
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field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

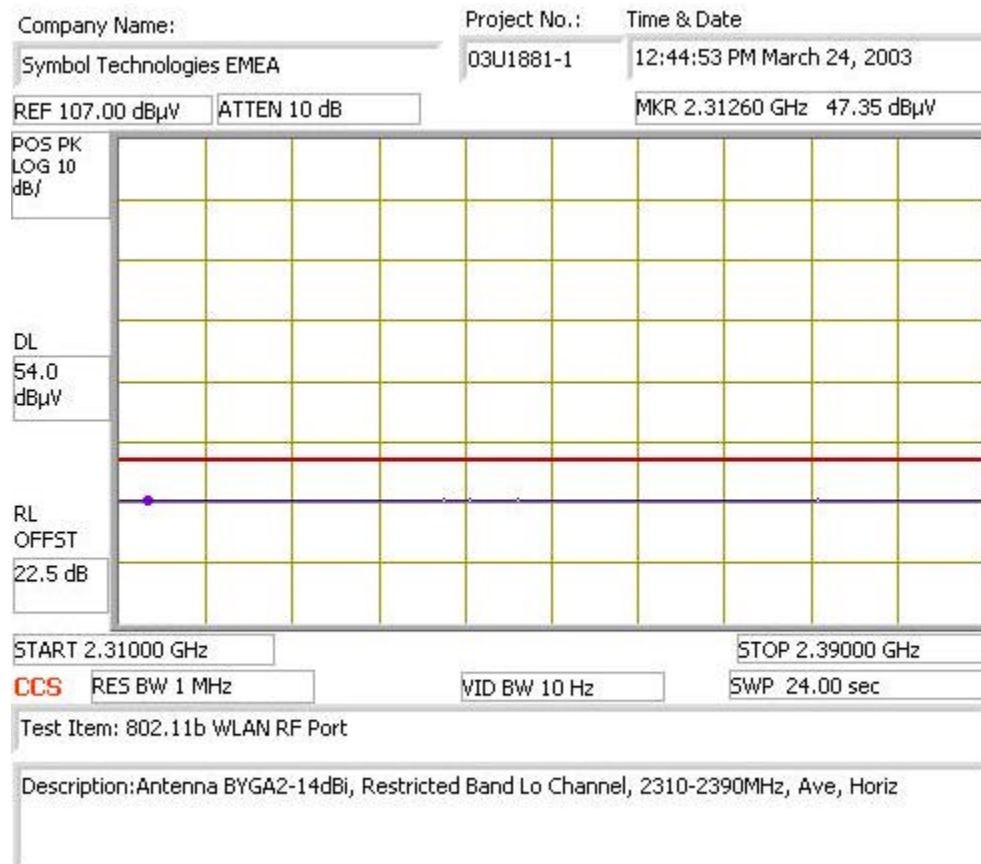
7.7.3. YAGI ANTENNA RESULTS

SETUP PHOTO

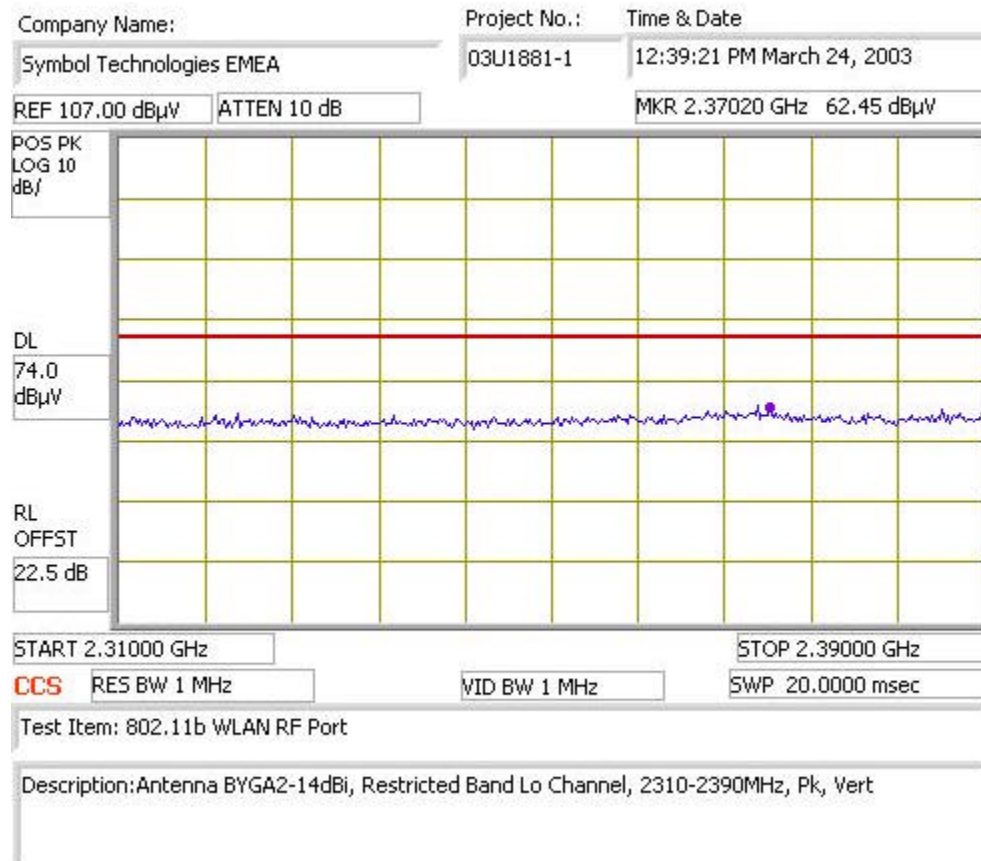


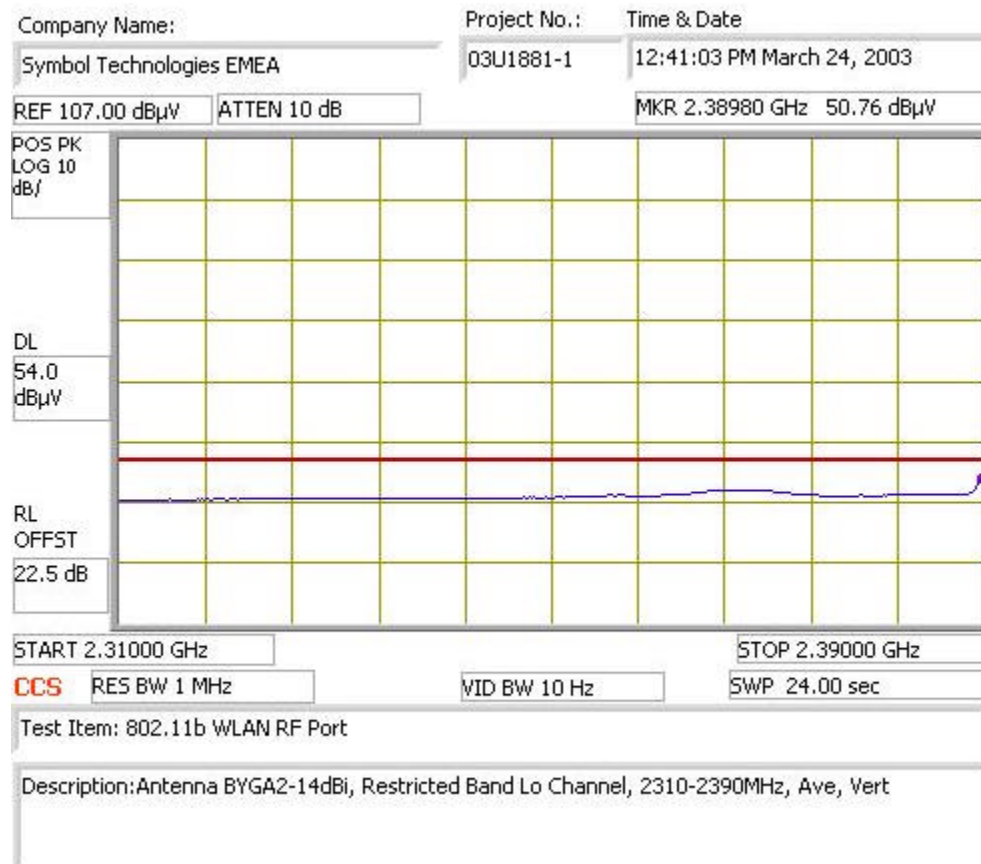
ADJACENT RESTRICTED BAND (LOW CHANNEL, HORIZONTAL)



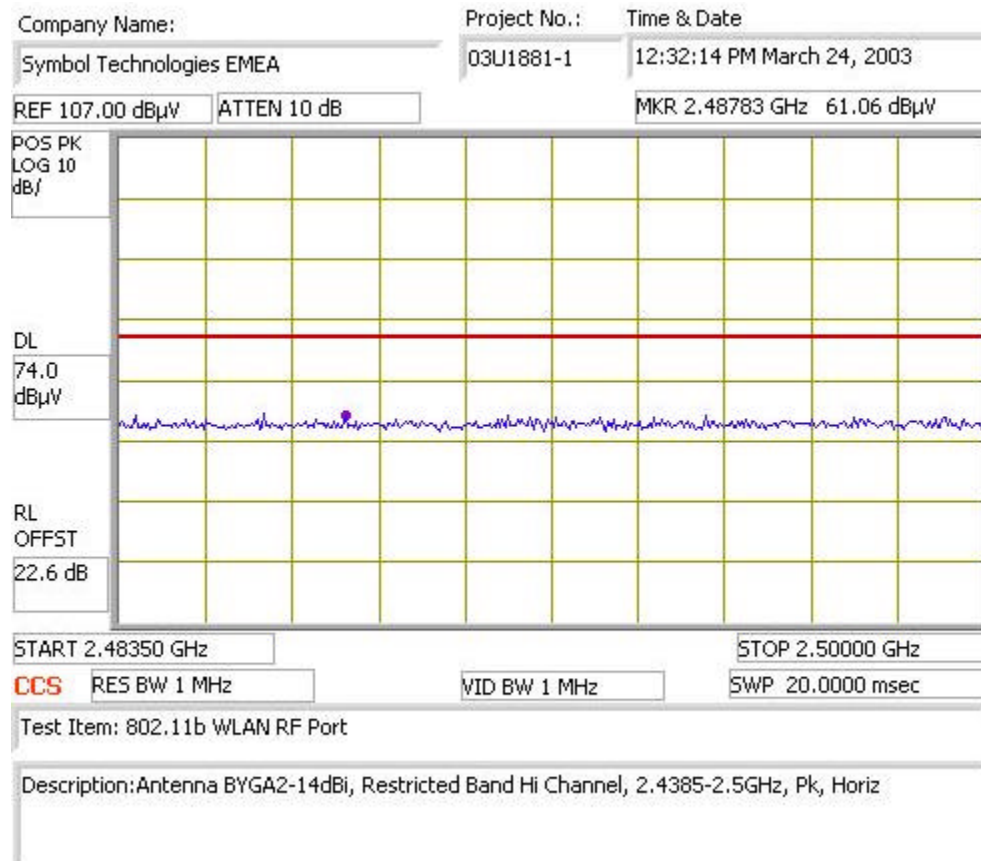


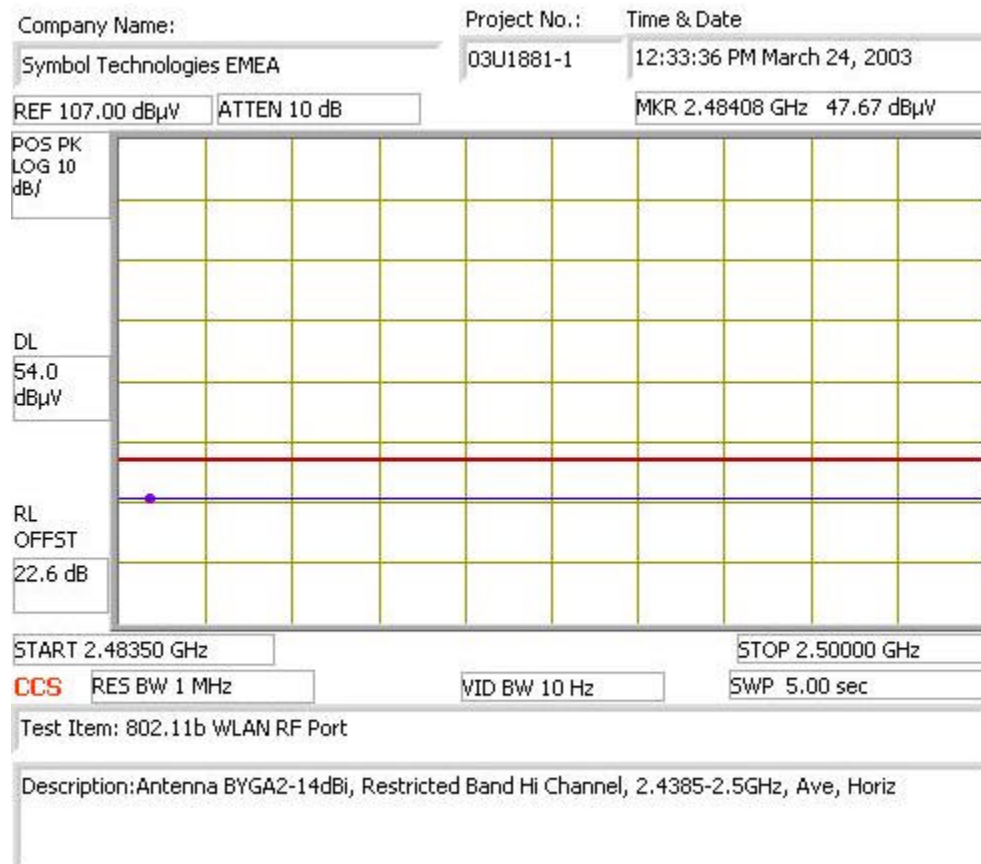
ADJACENT RESTRICTED BAND (LOW CHANNEL, VERTICAL)





ADJACENT RESTRICTED BAND (HIGH CHANNEL, HORIZONTAL)





ADJACENT RESTRICTED BAND (HIGH CHANNEL, VERTICAL)

