

Omnex Control Systems ULC EMC Report

Test Information

Date: 5-Feb-2009
 Test Description: EMI radiated 30.0 MHz - 1.5 GHz
 Operating Conditions: 24V supply normal operation
 Temperature: 25 C
 Humidity: 30% RH
 Operator Name: LWD
 Comment: 1/4 wave antenna
 Result: PASS
 Description: rotated 180 degrees with 1/4 wave antenna

EUT Information: TWE900

Description:
 EUT Name: TWE900
 Manufacturer: Omnex
 Serial Number: 02890700098
 Hardware Rev: 4
 Software Rev: 1.0
 Comment: New C258 with low ESR on MRR900 bd.

Scan Setup: RE 900Tx Notch 30M-3G 2s Final [EMI radiated]

Hardware Setup: RE 900 Notch + HP
 Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
30MHz - 900MHz	QuasiPeak	120kHz	2s	ESPI 3
930MHz - 1GHz	QuasiPeak	120kHz	2s	ESPI 3
1GHz - 1.5GHz	Average	1MHz	2s	ESPI 3
1.5GHz - 3GHz	Average	1MHz	2s	ESPI 3

Hardware Setup: RE 900 Notch + HP - [EMI radiated]

Subrange 1
 Frequency Range: 30MHz - 2GHz
 Receiver: ESPI 3 [ESPI 3]
 @ GPIB0 (ADR 20), SN 101160/003, FW 3.32, CAL 20/07/2009
 Signal Path: GTEM-900NOTCH-ESPI
 FW 1.0
 Correction Table: GTEM-900NOTCH-ESPI
 Transducer: GTEM
 CAL 31/12/2009

Subrange 2
 Frequency Range: 2GHz - 3GHz
 Receiver: ESPI 3 [ESPI 3]
 @ GPIB0 (ADR 20), SN 101160/003, FW 3.32, CAL 20/07/2009
 Signal Path: GTEM-1.3HP-ESPI
 FW 1.0

Transducer:

Correction Table: GTEM-1.3HP-ESPI
GTEM
CAL 31/12/2009**Final Measurement QuasiPeak**

Frequency (MHz)	Field Strength (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
173.440000	34.3	2000.000	120.000	1.7	9.2
201.360000	42.4	2000.000	120.000	1.9	1.1
216.280000	37.5	2000.000	120.000	2.0	8.5
287.640000	34.1	2000.000	120.000	2.3	11.9
335.800000	34.0	2000.000	120.000	2.5	12.0
419.280000	35.9	2000.000	120.000	2.8	10.1
549.000000	34.7	2000.000	120.000	3.2	11.3
631.040000	41.2	2000.000	120.000	3.5	4.8
763.640000	42.4	2000.000	120.000	3.9	3.6
898.840000	43.1	2000.000	120.000	5.3	2.9

(continuation of the "Final Measurement QuasiPeak" table from column 6 ...)

Frequency (MHz)	Limit (dB μ V/m)	Comment
173.440000	43.5	
201.360000	43.5	
216.280000	46.0	
287.640000	46.0	
335.800000	46.0	
419.280000	46.0	
549.000000	46.0	
631.040000	46.0	
763.640000	46.0	
898.840000	46.0	

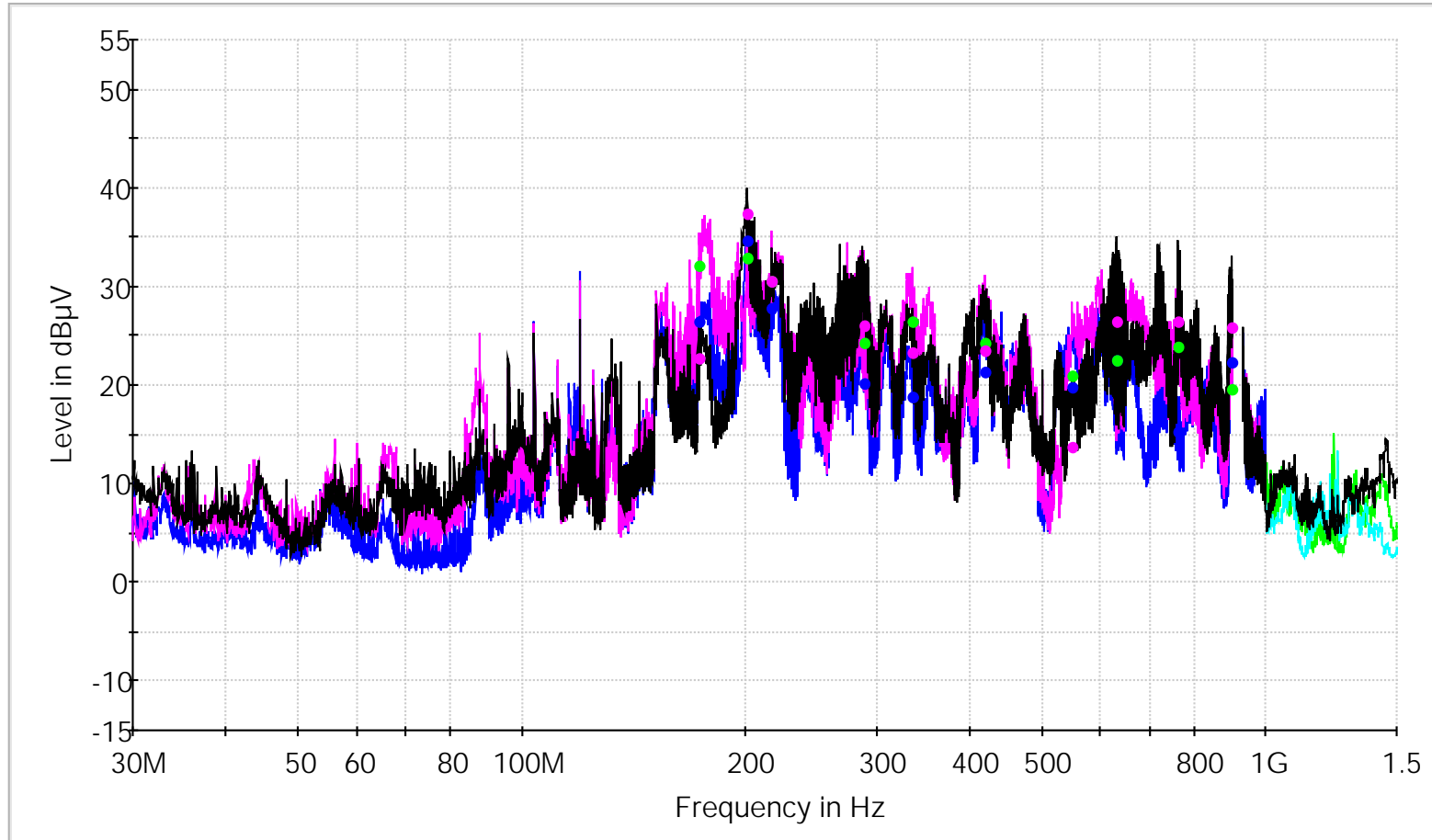
Final Measurement Average

Frequency (MHz)	Field Strength (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)
1810.400000	33.1	2000.000	1000.000	6.3	20.8
2771.200000	36.3	2000.000	1000.000	7.6	17.6

(continuation of the "Final Measurement Average" table from column 6 ...)

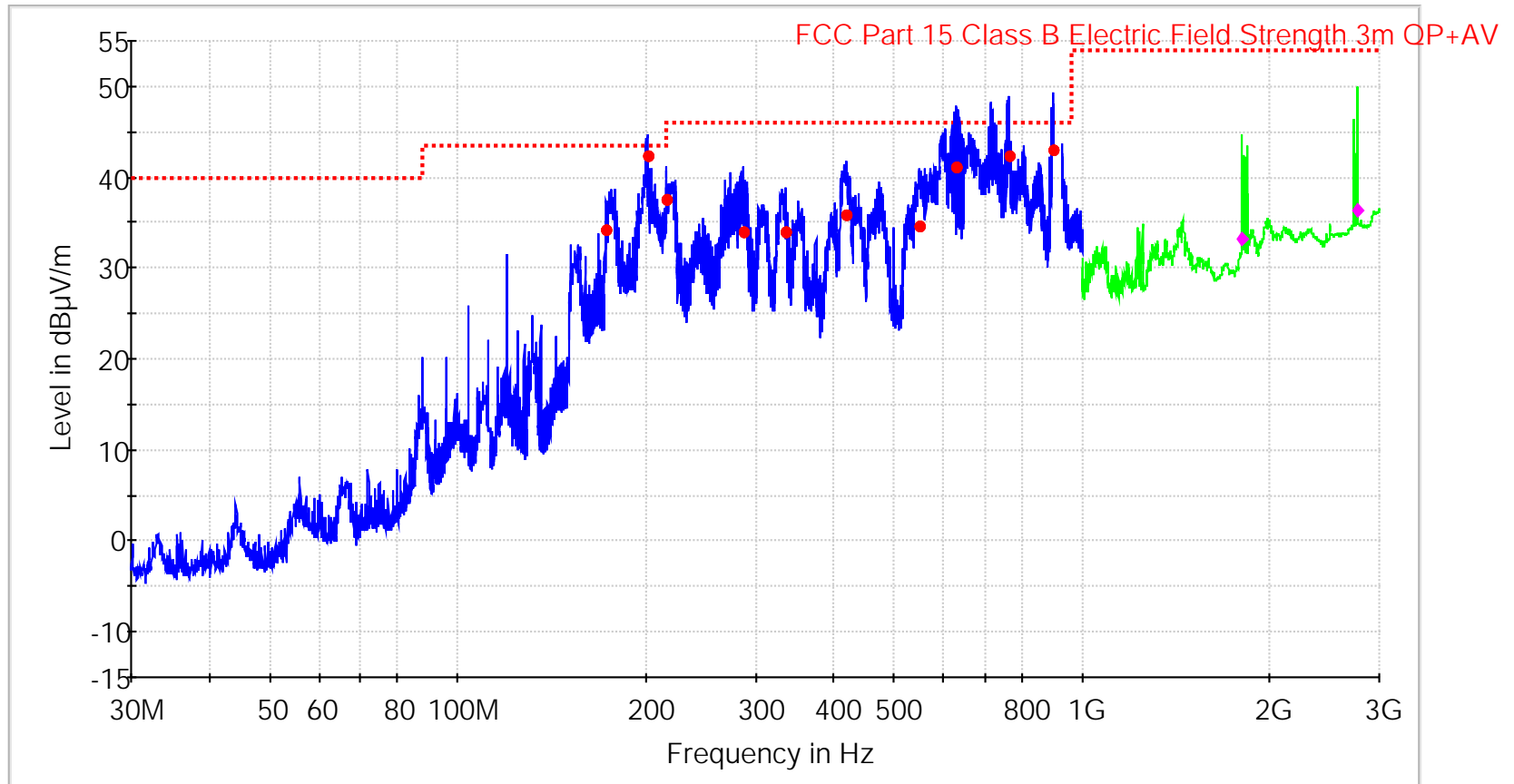
Frequency (MHz)	Limit (dB μ V/m)	Comment
1810.400000	53.9	
2771.200000	53.9	

GTEM



- Preview Measurement MaxPeak x
- Preview Measurement Average x
- Preview Measurement MaxPeak y
- Preview Measurement Average y
- Preview Measurement MaxPeak z
- Preview Measurement Average z
- Final Measurement QuasiPeak x
- Final Measurement QuasiPeak y
- Final Measurement QuasiPeak z

OATS



- FCC Part 15 Class B Electric Field Strength 3m QP+AV
- Preview Measurement Average
- Final Measurement QuasiPeak
- Final Measurement QuasiPeak (High)
- ◆ Final Measurement Average(1)
- Preview Measurement MaxPeak
- Final Measurement QuasiPeak
- Preview Measurement Average(1)