

**Appendix A – Radiated and Conducted Emissions Measurement Data****A.1 Conducted Emissions Data**

Conducted emissions limits do not apply to this Access BPL equipment

**A.2 Radiated Emissions Data****A.2.1 1.705 MHz to 30 MHz**

Date: April 8, 2008  
EUT: CURRENT Bridge OH 6021 (S/N: 23038B2900433098)  
Location: CURRENT Rockville Test Area – PLB1  
Mode: LV Active (transmitting LV-signal, 4.4 MHz to 20.8 MHz)

Frequency (MHz)	Antenna Location	Antenna Height (m)	QP Level Measured on Analyzer (dB $\mu$ V/m)	Measurement distance (m)	Distance Correction Factor to 30m (dB)	QP Level Corrected to 30m (dB $\mu$ V/m)	30m Limit (dB $\mu$ V/m)	Margin (dB)
15.23	R30m	1.0	44.4	10.63	-18.03	26.35	29.54	-3.2
15.43	R30m	1.0	44.3	10.63	-18.03	26.30	29.54	-3.2
19.73	L36m	1.0	42.3	10.63	-18.03	24.25	29.54	-5.3
19.92	L30m	1.0	42.2	10.63	-18.03	24.13	29.54	-5.4
19.53	L36m	1.0	42.1	10.63	-18.03	24.02	29.54	-5.5
19.53	L30m	1.0	42.0	10.63	-18.03	23.93	29.54	-5.6
19.53	R36m	1.0	41.4	10.63	-18.03	23.39	29.54	-6.2
19.73	R36m	1.0	41.1	10.63	-18.03	23.10	29.54	-6.4
19.34	L36m	1.0	40.9	10.63	-18.03	22.82	29.54	-6.7
18.55	R36m	1.0	40.5	10.63	-18.03	22.51	29.54	-7.0

Date: May 5, 2008  
 EUT: CURRENT Bridge OH 6021 (S/N: 23038F9900002874)  
 Location: CURRENT Rockville Test Area – PLB2  
 Mode: LV Active (transmitting LV-signal, 4.4 MHz to 20.8 MHz)

Frequency (MHz)	Antenna Location	Antenna Height (m)	QP Level Measured on Analyzer (dB $\mu$ V/m)	Measurement distance (m)	Distance Correction Factor to 30m (dB)	QP Level Corrected to 30m (dB $\mu$ V/m)	30m Limit (dB $\mu$ V/m)	Margin (dB)
12.70	C0m	1.0	45.0	11.45	-16.73	28.25	29.54	-1.3
20.71	R12	1.0	44.9	11.45	-16.73	28.16	29.54	-1.4
20.70	R36	1.0	44.9	11.45	-16.73	28.14	29.54	-1.4
12.89	L18m	1.0	44.8	11.45	-16.73	28.11	29.54	-1.4
6.05	R24	1.0	44.8	11.45	-16.73	28.10	29.54	-1.4
12.11	L12m	1.0	44.7	11.45	-16.73	28.01	29.54	-1.5
17.38	L6m	1.0	44.7	11.45	-16.73	28.00	29.54	-1.5
20.70	R30	1.0	44.7	11.45	-16.73	27.98	29.54	-1.6
11.72	R12	1.0	44.7	11.45	-16.73	27.93	29.54	-1.6
8.98	L30m	1.0	44.6	11.45	-16.73	27.83	29.54	-1.7

Date: March 6, 2008  
 EUT: CURRENT Bridge OH 6021 (S/N: 23038B2900433098)  
 Location: CURRENT Rockville Test Area – PLB4  
 Mode: LV Active (transmitting LV-signal, 4.4 MHz to 20.8 MHz)

Frequency (MHz)	Antenna Location	Antenna Height (m)	QP Level Measured on Analyzer (dB $\mu$ V/m)	Measurement distance (m)	Distance Correction Factor to 30m (dB)	QP Level Corrected to 30m (dB $\mu$ V/m)	30m Limit (dB $\mu$ V/m)	Margin (dB)
15.23	R30m	1.0	44.4	10.63	-18.03	26.35	29.54	-3.2
15.43	R30m	1.0	44.3	10.63	-18.03	26.30	29.54	-3.2
19.73	L36m	1.0	42.3	10.63	-18.03	24.25	29.54	-5.3
19.92	L30m	1.0	42.2	10.63	-18.03	24.13	29.54	-5.4
19.53	L36m	1.0	42.1	10.63	-18.03	24.02	29.54	-5.5
19.53	L30m	1.0	42.0	10.63	-18.03	23.93	29.54	-5.6
19.53	R36m	1.0	41.4	10.63	-18.03	23.39	29.54	-6.2
19.73	R36m	1.0	41.1	10.63	-18.03	23.10	29.54	-6.4
19.34	L36m	1.0	40.9	10.63	-18.03	22.82	29.54	-6.7
18.55	R36m	1.0	40.5	10.63	-18.03	22.51	29.54	-7.0

**A.2.2 30 MHz to 50 MHz**

Date: May 2, 2008  
 EUT: CURRENT Bridge OH 6021 (S/N: 23038F8900002910)  
 Location: CURRENT Potomac Test Area – 9417 Kentsdale  
 Mode: MV Active (transmitting MV-signal, 30 MHz to 50 MHz)

Frequency (MHz)	Antenna Location	Antenna Height (m)	QP Level Measured on Analyzer (dBμV/m)	Measurement distance (m)	Distance Correction Factor to 10m (dB)	QP Level Corrected to 10m (dBμV/m)	10m Limit (dBμV/m)	Margin (dB)
36.83	L7.6m	4.0	34.7	14.88	3.45	38.15	39.08	-0.9
37.61	R7.6m	3.0	34.2	15.41	3.76	37.9	39.08	-1.2
33.51	R1.9m	3.0	34.8	14.31	3.11	37.86	39.08	-1.2
37.61	R5.7m	4.0	34.4	14.88	3.45	37.85	39.08	-1.2
37.22	R7.6m	3.0	33.9	15.41	3.76	37.66	39.08	-1.4
33.51	C0m	4.0	34.5	13.78	2.79	37.25	39.08	-1.8
36.44	L7.6m	3.0	33.3	15.41	3.76	37.1	39.08	-2.0
36.24	C0m	3.0	33.6	14.18	3.04	36.63	39.08	-2.5
32.73	L7.6m	4.0	32.3	14.88	3.45	35.73	39.08	-3.3
33.31	L5.7m	4.0	32.2	14.88	3.45	35.65	39.08	-3.4

Date: May 2, 2008  
 EUT: CURRENT Bridge OH 6021 (S/N: 23038AD900433096)  
 Location: CURRENT Potomac Test Area – 9705 Kentsdale  
 Mode: MV Active (transmitting MV-signal, 30 MHz to 50 MHz)

Frequency (MHz)	Antenna Location	Antenna Height (m)	QP Level Measured on Analyzer (dBμV/m)	Measurement distance (m)	Distance Correction Factor to 10m (dB)	QP Level Corrected to 10m (dBμV/m)	10m Limit (dBμV/m)	Margin (dB)
42.49	L5.7m	3.0	35.1	15.24	3.66	38.74	39.08	-0.3
41.71	L5.7m	3.0	35.0	15.24	3.66	38.65	39.08	-0.4
44.45	L5.7m	3.0	35.0	15.24	3.66	38.63	39.08	-0.5
39.95	R3.8m	3.0	35.0	14.63	3.31	38.26	39.08	-0.8
37.61	L1.9m	3.0	35.1	14.26	3.08	38.16	39.08	-0.9
38.59	R5.7m	3.0	32.4	15.24	3.66	36.02	39.08	-3.1
36.63	R1.9m	1.0	32.2	15.21	3.64	35.82	39.08	-3.3
40.93	L3.8m	3.0	32.4	14.63	3.31	35.69	39.08	-3.4
31.55	R7.6m	4.0	32.1	14.88	3.45	35.5	39.08	-3.6
42.88	R3.8m	3.0	31.8	14.63	3.31	35.07	39.08	-4.0

Date: May 6, 2008  
EUT: CURRENT Bridge OH 6021 (S/N: 23038F9900002866)  
Location: CURRENT Potomac Test Area – Tuckerman  
Mode: MV Active (transmitting MV-signal, 30 MHz to 50 MHz)

Frequency (MHz)	Antenna Location	Antenna Height (m)	QP Level Measured on Analyzer (dB $\mu$ V/m)	Measurement distance (m)	Distance Correction Factor to 10m (dB)	QP Level Corrected to 10m (dB $\mu$ V/m)	10m Limit (dB $\mu$ V/m)	Margin (dB)
46.59	L1.9m	2.0	35.0	15.49	3.80	38.8	39.08	-0.3
35.07	R5.7m	4.0	34.9	15.49	3.80	38.7	39.08	-0.4
41.91	R3.8m	2.0	34.4	15.84	3.99	38.4	39.08	-0.7
43.66	R3.8m	2.0	34.4	15.84	3.99	38.4	39.08	-0.7
43.66	R3.8m	3.0	34.6	15.34	3.72	38.3	39.08	-0.8
35.27	R5.7m	4.0	34.2	15.49	3.80	38.0	39.08	-1.1
35.27	R1.9m	2.0	34.1	15.49	3.80	37.9	39.08	-1.2
46.79	C0m	1.0	32.4	15.93	4.05	36.4	39.08	-2.7
47.77	R1.9m	4.0	31.1	14.53	3.25	34.3	39.08	-4.8
45.03	R1.9m	4.0	30.9	14.53	3.25	34.1	39.08	-5.0

**A.2.3 50 MHz to 1000 MHz**

Date: March 28, 2008

EUT: CURRENT Bridge OH 6021 (S/N: 23038B2900433101)

Location: Washington Laboratories Open Area Test Site

Mode: LV Active (transmitting LV-signal, 4.4 MHz to 20.8 MHz)

*Horizontal Polarity:*

Frequency (MHz)	Polarity H/V	Azimuth Degree	Ant. Height (m)	SA Level (QP) (dBμV)	Ant. Corr. (dB/m)	Cable Corr. (dB)	Amplifier Gain (dB)	Corr. Level (dBμV/m)	Corr. Level (μV/m)	Limit (μV/m)	Margin (dB)
181.256	H	95.0	4.0	13.3	11.0	2.2	0.0	26.5	21.1	150.0	-17.1
209.024	H	0.0	4.0	14.0	11.0	2.2	0.0	27.2	22.9	150.0	-16.3
224.980	H	125.0	4.0	5.6	11.3	2.3	0.0	19.2	9.1	210.0	-27.2
313.520	H	370.0	4.0	13.7	13.7	3.0	0.0	30.5	33.4	210.0	-16.0

*Vertical Polarity:*

Frequency (MHz)	Polarity H/V	Azimuth Degree	Ant. Height (m)	SA Level (QP) (dBμV)	Ant. Corr. (dB/m)	Cable Corr. (dB)	Amplifier Gain (dB)	Corr. Level (dBμV/m)	Corr. Level (μV/m)	Limit (μV/m)	Margin (dB)
43.790	V	0.0	1.0	8.7	10.7	1.5	0.0	20.9	11.1	90.0	-18.2
181.244	V	170.0	2.5	8.9	11.0	2.2	0.0	22.1	12.7	150.0	-21.5
200.000	V	90.0	1.6	17.8	12.3	2.1	0.0	32.2	40.7	150.0	-11.3
209.000	V	210.0	1.2	13.5	11.0	2.2	0.0	26.7	21.7	150.0	-16.8
224.980	V	250.0	1.0	10.6	11.3	2.3	0.0	24.2	16.2	210.0	-22.2
313.534	V	0.0	1.0	18.7	13.7	3.0	0.0	35.5	59.3	210.0	-11.0