

File Number: NC4876
 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

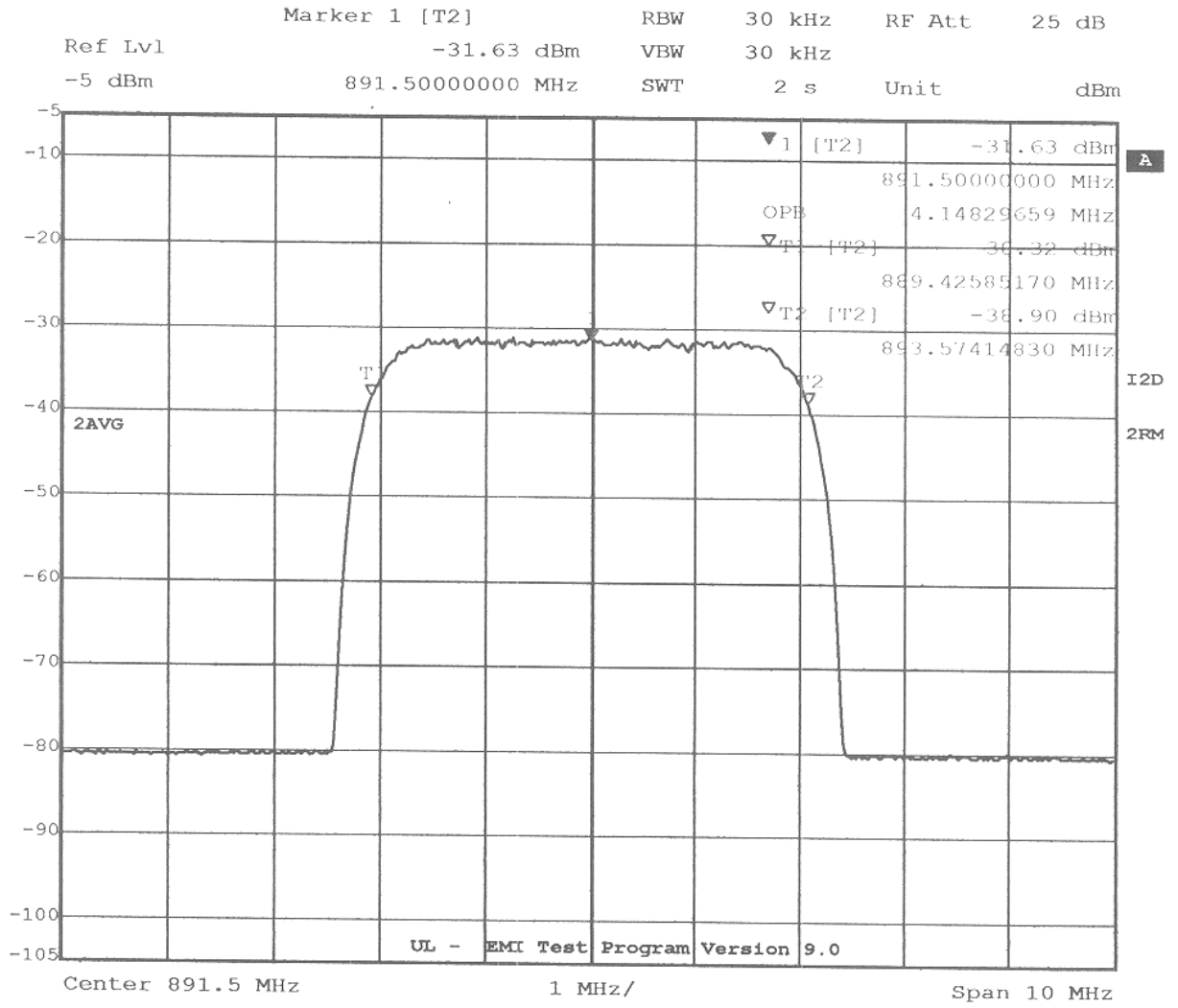
Issued: 10/22/02



Title: Ericsson Occupied Bandwidth WCDMA Low 891.5Mhz Input High
 Date: 4.OCT.2002 13:54:25

File Number: NC4876
 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

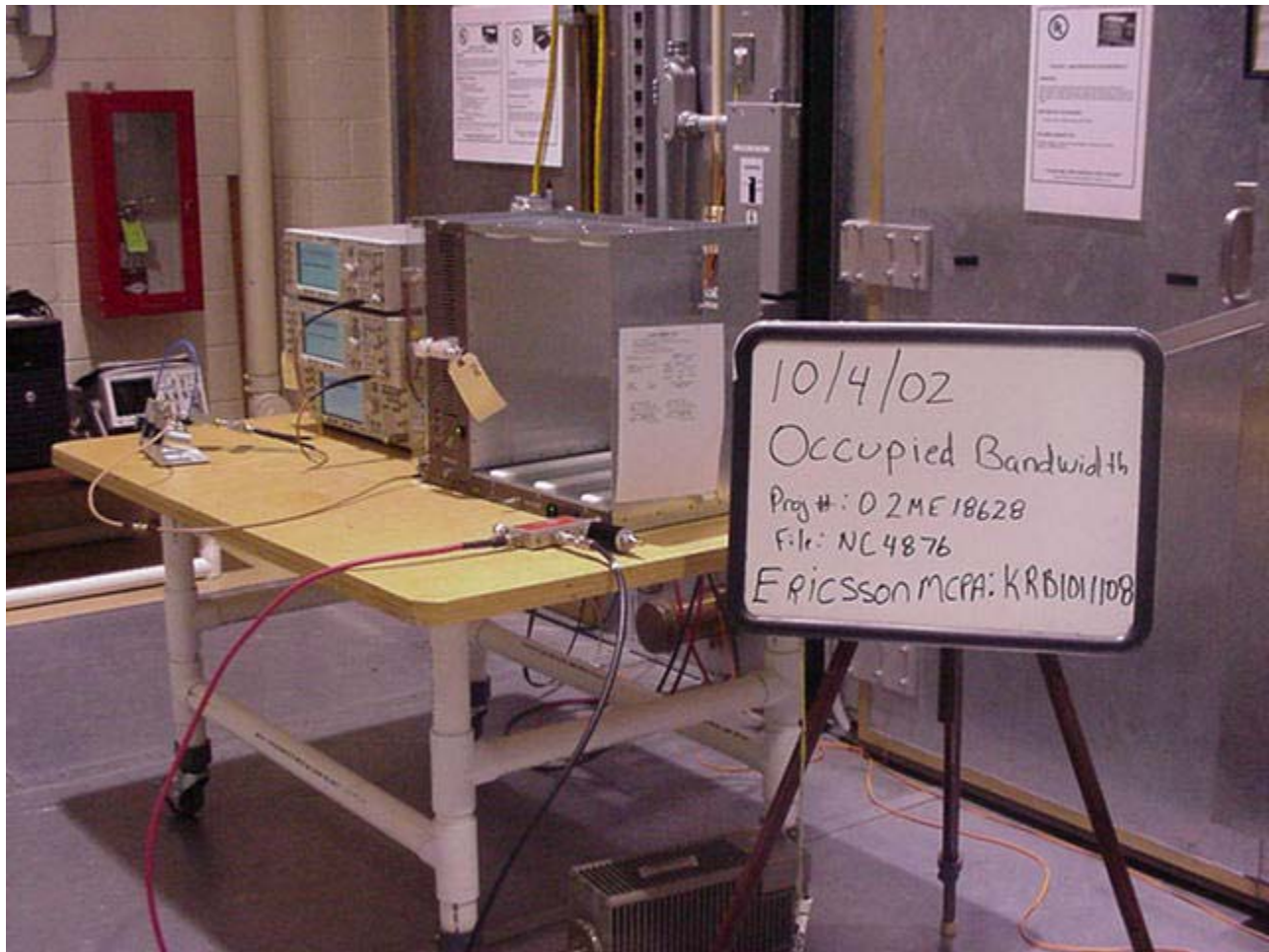
Issued: 10/22/02



Title: Ericsson Occupied BW WCDMA High 891.5Mhz Output
 Date: 4.OCT.2002 14:58:02

File Number: NC4876
Project Number: 02ME18628
Model Number: KRB 101 1108
FCC ID: QANKRB1011108

Issued: 10/22/02



Occupied Bandwidth Test Set-Up

File Number: NC4876
Project Number: 02ME18628
Model Number: KRB 101 1108
FCC ID: QANKRB1011108

Issued: 10/22/02

2.1.3 Field Strength of Spurious Radiated Emissions, Substitution Method:

Test Applicable Test Not Applicable

Temperature: 21.0 °C
Humidity: 70 %RH
Pressure: 1033 milbar
Date test performed: 01 Oct 02

Measurement distance: 3 meters

Frequency Range:
 30MHz - 1000MHz Electric
 1GHz - 10GHz Electric
 1GHz-10 GHz ERP Substitution Method

The Amplifier will operate in a typical installation. Place the antenna at 3m distances, and measure the worst-case Radiated Emissions from the EUT (equipment under test). The Emissions levels within 20 dB of the limits were repeated with a signal generator and a transmit antenna. The measurements are then adjusted for the difference between the transmit antenna gain and that of a tuned dipole antenna. The value is then compared with the limits designated in CFR Part 22.917.

Note: If the modulations are determined to be of similarities after measurements are taken. Then Only 1 modulation, which is worst case be a sufficient representative for final measurements.

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Test equipment used for final radiated emissions tests:

HP 8574A **Hewlett-Packard** **EMI Receiver,** **Equipment No.: ME5A-461**
Range: 30M-1000 MHz Last Calibration Date: 25 Jan 01 Calibration Due Date: 27 Jan 02

Consisting of:

HP - 8566B **Hewlett-Packard** **Spectrum Analyzer,**
Resolution BW: 1MHz
Video BW: 1MHz
HP - 85662A **Hewlett-Packard** **Analyzer Display**
HP - 85650A **Hewlett-Packard** **Quasi-Peak Adapter,**
BW: 120kHz
HP - 85685A **Hewlett-Packard** **Preselector**

For Measurements above 1GHz:

HP - 8566B **Hewlett-Packard** **Spectrum Analyzer,** **Equipment No.: ME5A-461**
Resolution BW: 1MHz
Video BW: 1MHz
Range: 1-10GHz Last Calibration Date: 30 April 02 Calibration Due Date: 30 April 03

Test Accessories for Radiated Emissions:

94455-1 **Ailtech** **Biconnical Antenna** **Equipment No.: ME5-439**
Last Calibration Date: 16 Oct 01 Calibration Due Date: 16 Oct 02

3146 **EMCO** **Log Periodic Antenna** **Equipment No.: ME5-451**
Last Calibration Date: 15 Oct 01 Calibration Due Date: 15 Oct 02

RGA-180 **EMCO** **Horn Antenna** **Equipment No.:ME5-565**
Last Calibration Date: 17 June 02 Calibration Due Date: 17 June 03

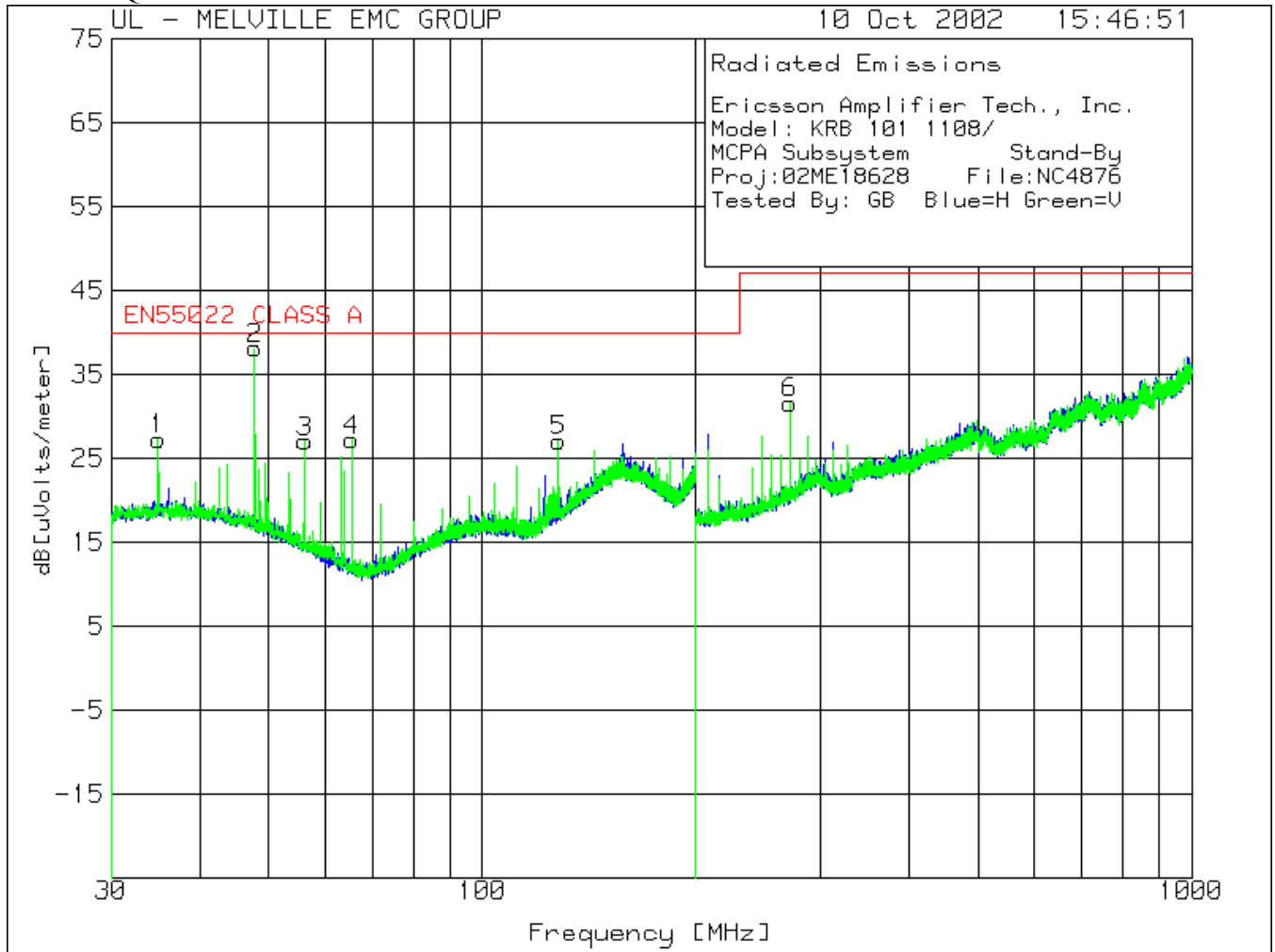
8449B **Hewlett Packard** **1-26GHz Pre-Amp** **Equipment No.:ME5-914**

Temp/Pressure **Oakton** **Barometer** **Equipment No.: ME4-263**

Range: Auto Last Calibration Date: 2 April 02 Calibration Due Date: 2 April 03

453320 **Ex-Tech** **Hydro-Thermometer** **Equipment No.: ME4-264**

Range:Auto Last Calibration Date: 2 April 02 Calibration Due Date: 2 April 03



The Emissions levels from the Unintentional Radiator Section (not part of the amplification process)

File Number: NC4876
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 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

Issued: 10/22/02

Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/
 MCPA Subsystem Stand-By
 Proj:02ME18628 File:NC4876
 Tested By: GB Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB (uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1
Range: 2 30 - 200MHz -----						
1	34.9263	12.92 pk	.83	13.55	27.3	40
	Azimuth:1	Height:100 Vert		Margin [dB]		-12.7
2	47.7517	25.33 pk	.95	11.82	38.1	40
	Azimuth:310	Height:200 Vert		Margin [dB]		-1.9
3	56.2028	16.89 pk	1.01	9.1	27	40
	Azimuth:2	Height:100 Vert		Margin [dB]		-13
4	65.5034	19.72 pk	1.08	6.4	27.2	40
	Azimuth:29	Height:100 Vert		Margin [dB]		-12.8
5	127.974	13.21 pk	1.56	12.33	27.1	40
	Azimuth:82	Height:100 Vert		Margin [dB]		-12.9
Range: 4 200 - 1000MHz -----						
6	271.8068	16.31 pk	2.3	12.99	31.6	47
	Azimuth:168	Height:100 Vert		Margin [dB]		-15.4

LIMIT 1: EN55022 CLASS A
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 tm - Trace Math Result

File Number: NC4876
 Project Number: 02ME18628
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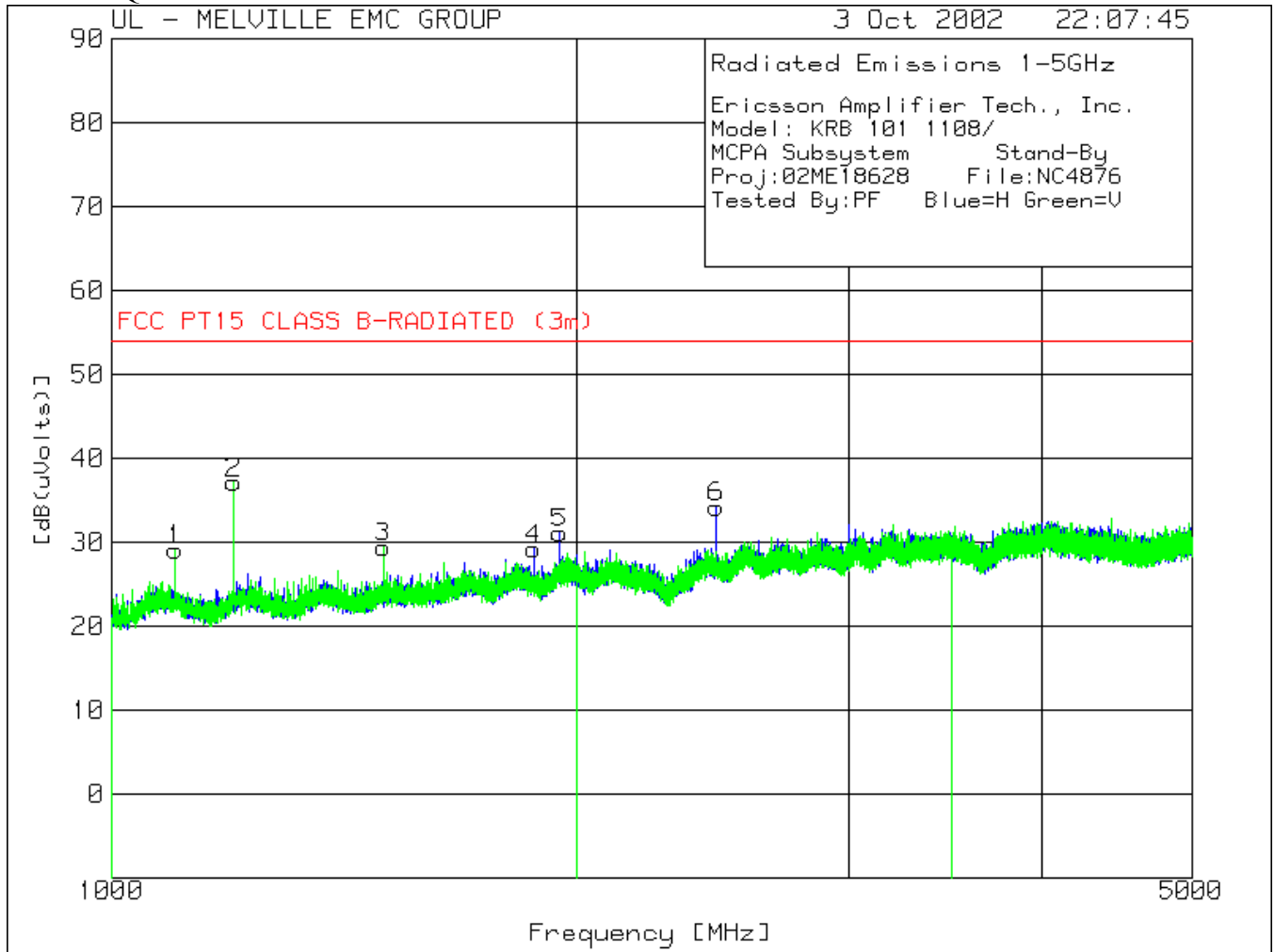
Issued: 10/22/02

Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/
 MCPA Subsystem Stand-By
 Proj:02ME18628 File:NC4876
 Tested By: GB Blue=H Green=V

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1
Range: 2 30 - 200MHz					
47.6764	-1.51 qp	.95	11.87	11.31	40
Azimuth: 27 Height:181 Vert			Margin [dB]:		-28.69
34.9575	-1.33 qp	.83	13.58	13.08	40
Azimuth: 3 Height:145 Vert			Margin [dB]:		-26.92
55.8735	-1.31 qp	1.01	9.2	8.9	40
Azimuth: 1 Height:392 Vert			Margin [dB]:		-31.1
64.0015	15.81 qp	1.06	6.7	23.57	40
Azimuth: 108 Height:258 Vert			Margin [dB]:		-16.43
127.9966	11.15 qp	1.56	12.34	25.05	40
Azimuth: 84 Height:105 Vert			Margin [dB]:		-14.95
Range: 4 200 - 1000MHz					
271.992	14.44 qp	2.3	13	29.74	47
Azimuth: 142 Height:99 Vert			Margin [dB]:		-17.26

LIMIT 1: EN55022 CLASS A
 LIMIT 2: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector



The Emissions levels from the Unintentional Radiator Section (not part of the amplification process)

File Number: NC4876
 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

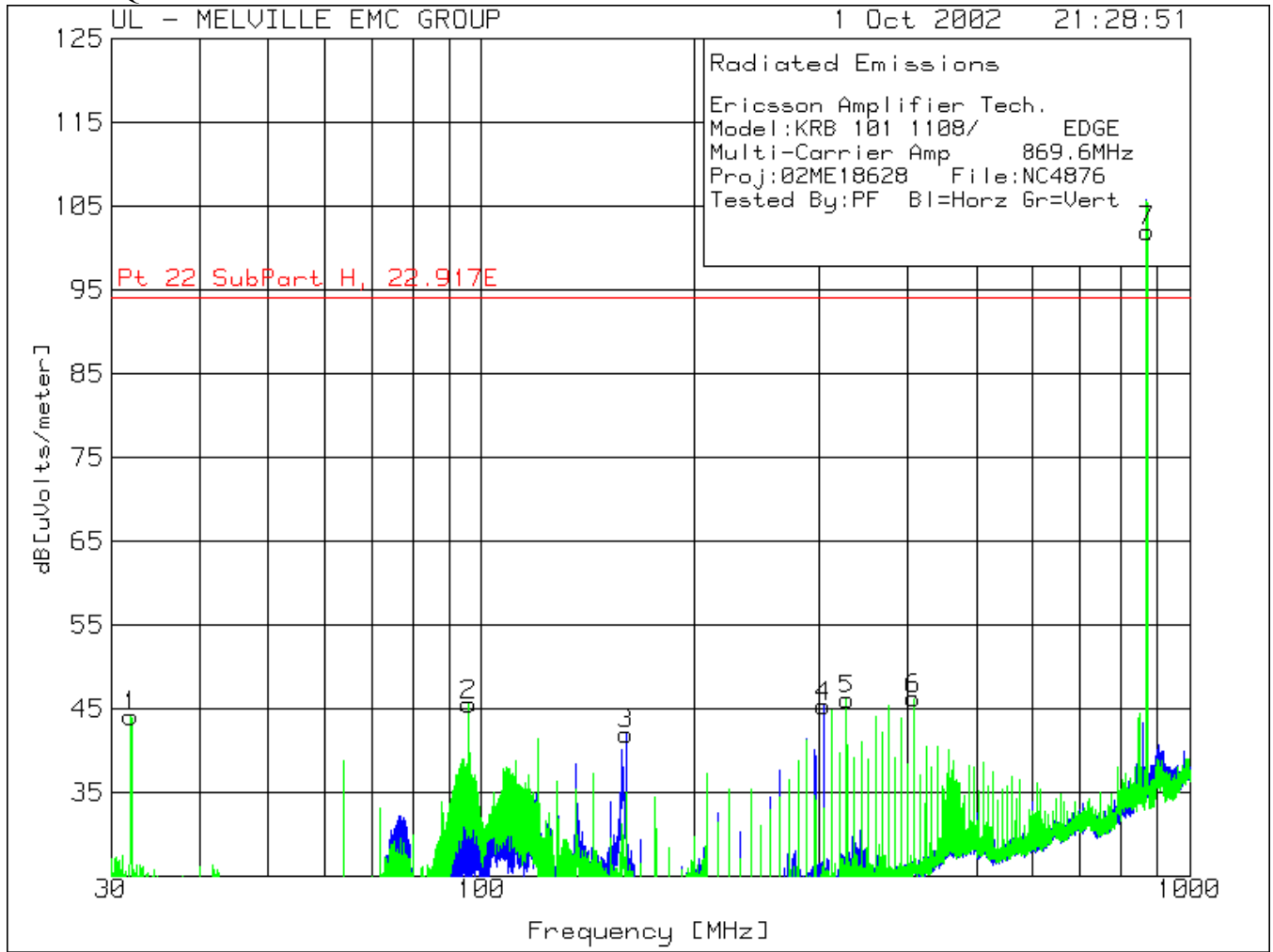
Issued: 10/22/02

Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/
 MCPA Subsystem Stand-By
 Proj:02ME18628 File:NC4876
 Tested By:PF Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB (uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB (uVolts)]	Limit:1
Range: 1 1000 - 2000MHz -----						
4	1875.104	32 pk	-31.15	28.35	29.2	54
	Azimuth:218	Height:101	Horz	Margin [dB]		-24.8
5	1949.875	33.33 pk	-30.91	28.68	31.1	54
	Azimuth:236	Height:101	Horz	Margin [dB]		-22.9
Range: 2 2000 - 3500MHz -----						
6	2462.907	34.19 pk	-30.46	30.47	34.2	54
	Azimuth:240	Height:200	Horz	Margin [dB]		-19.8
Range: 5 1000 - 2000MHz -----						
1	1099.75	37.27 pk	-33.43	25.26	29.1	54
	Azimuth:252	Height:100	Vert	Margin [dB]		-24.9
2	1200	44.64 pk	-33.16	25.62	37.1	54
	Azimuth:117	Height:100	Vert	Margin [dB]		-16.9
3	1499.917	35.05 pk	-32.35	26.7	29.4	54
	Azimuth:71	Height:100	Vert	Margin [dB]		-24.6

LIMIT 1: FCC PT15 CLASS B-RADIATED (3m)
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

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 qp - Quasi-Peak detector
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 tm - Trace Math Result



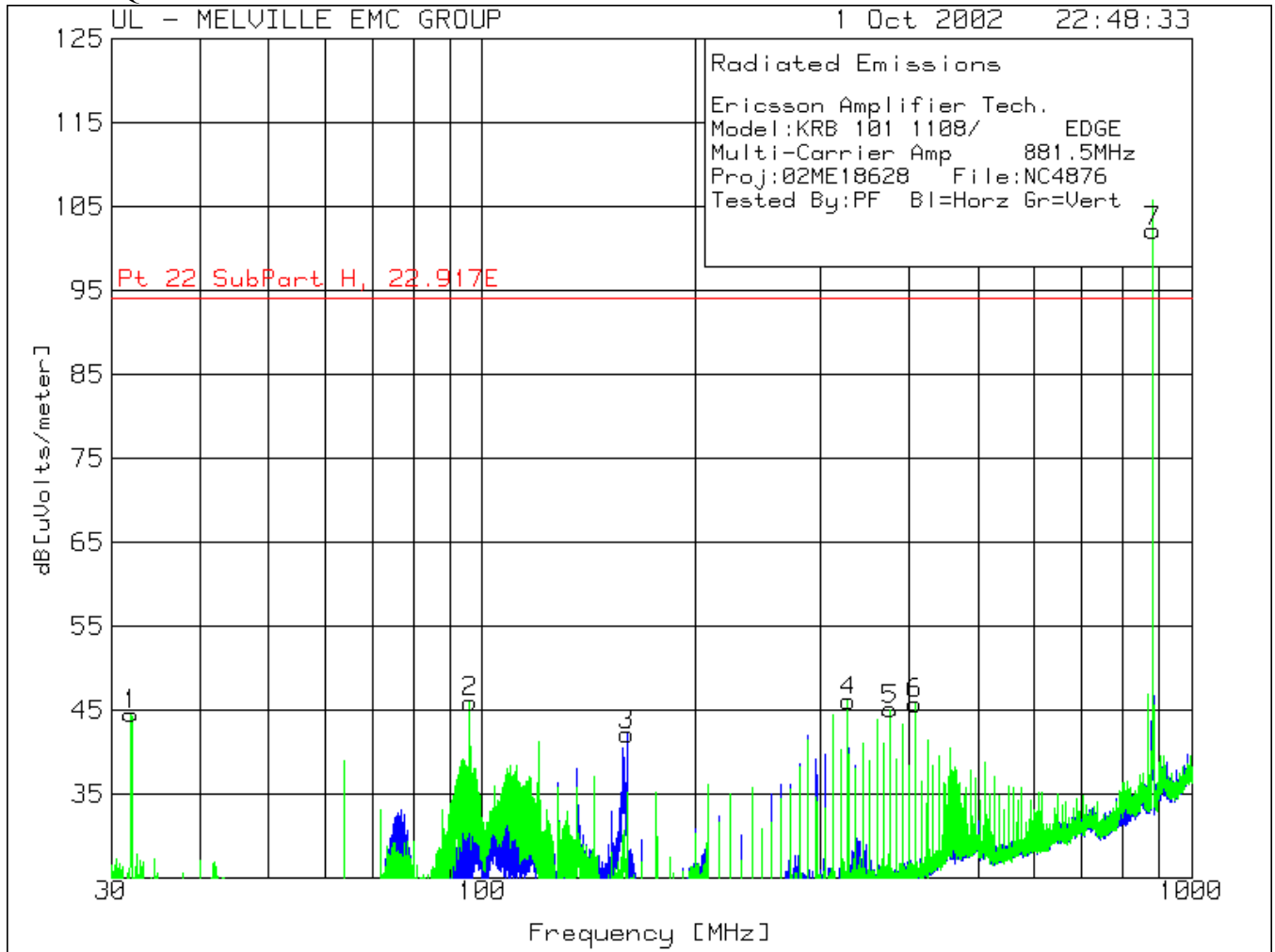
File Number: NC4876
 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

Issued: 10/22/02

Ericsson Amplifier Tech.
 Model:KRB 101 1108/ EDGE
 Multi-Carrier Amp 869.6MHz
 Proj:02ME18628 File:NC4876
 Tested By:PF Bl=Horz Gr=Vert

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1
Range: 1 30 - 200MHz -----						
3	159.995	23.31 pk	1.8	16.89	42	94
	Azimuth:170	Height:102	Horz	Margin [dB]		-52
Range: 2 30 - 200MHz -----						
1	31.9535	29.24 pk	.86	14	44.1	94
	Azimuth:156	Height:101	Vert	Margin [dB]		-49.9
2	95.953	33.09 pk	1.38	11.03	45.5	94
	Azimuth:78	Height:101	Vert	Margin [dB]		-48.5
Range: 3 200 - 1000MHz -----						
4	303.7802	27.45 pk	2.33	15.52	45.3	94
	Azimuth:83	Height:99	Horz	Margin [dB]		-48.7
Range: 4 200 - 1000MHz -----						
5	327.7602	28.53 pk	2.48	15.09	46.1	94
	Azimuth:16	Height:200	Vert	Margin [dB]		-47.9
6	407.8268	26.99 pk	3	16.21	46.2	94
	Azimuth:127	Height:100	Vert	Margin [dB]		-47.8
7	*869.7086	74.37 pk	4.44	23.19	102	94
	Azimuth:126	Height:100	Vert	Margin [dB]		8

LIMIT 1: Pt 22 SubPart H, 22.917E
 * Fundamental Frequency
 pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
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 tm - Trace Math Result



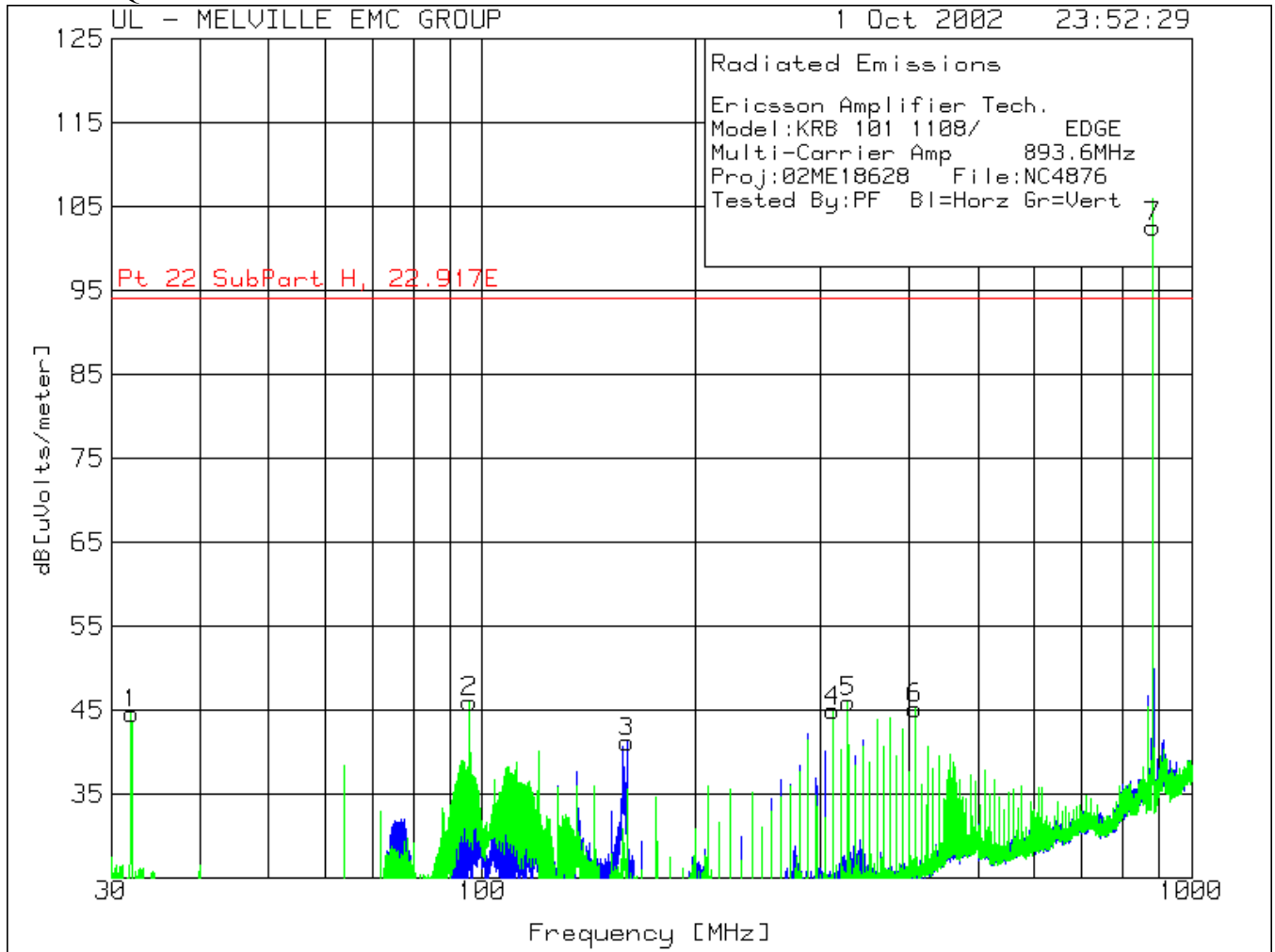
File Number: NC4876
 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

Issued: 10/22/02

Ericsson Amplifier Tech.
 Model:KRB 101 1108/ EDGE
 Multi-Carrier Amp 881.5MHz
 Proj:02ME18628 File:NC4876
 Tested By:PF Bl=Horz Gr=Vert

No.	Test Frequency [MHz]	Meter Reading [dB (uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1
Range: 1 30 - 200MHz -----						
3	159.995	23.41 pk	1.8	16.89	42.1	94
	Azimuth:182	Height:99	Horz	Margin [dB]		-51.9
Range: 2 30 - 200MHz -----						
1	31.9535	29.64 pk	.86	14	44.5	94
	Azimuth:0	Height:100	Vert	Margin [dB]		-49.5
2	95.9955	33.59 pk	1.38	11.03	46	94
	Azimuth:79	Height:100	Vert	Margin [dB]		-48
Range: 4 200 - 1000MHz -----						
4	327.7602	28.53 pk	2.48	15.09	46.1	94
	Azimuth:250	Height:200	Vert	Margin [dB]		-47.9
5	375.8535	26.83 pk	2.77	15.5	45.1	94
	Azimuth:129	Height:100	Vert	Margin [dB]		-48.9
6	407.8268	26.59 pk	3	16.21	45.8	94
	Azimuth:129	Height:100	Vert	Margin [dB]		-48.2
7	*881.5654	74.23 pk	4.47	23.4	102.1	94
	Azimuth:125	Height:100	Vert	Margin [dB]		8.1

LIMIT 1: Pt 22 SubPart H, 22.917E
 *Fundamental Frequency
 pk - Peak detector
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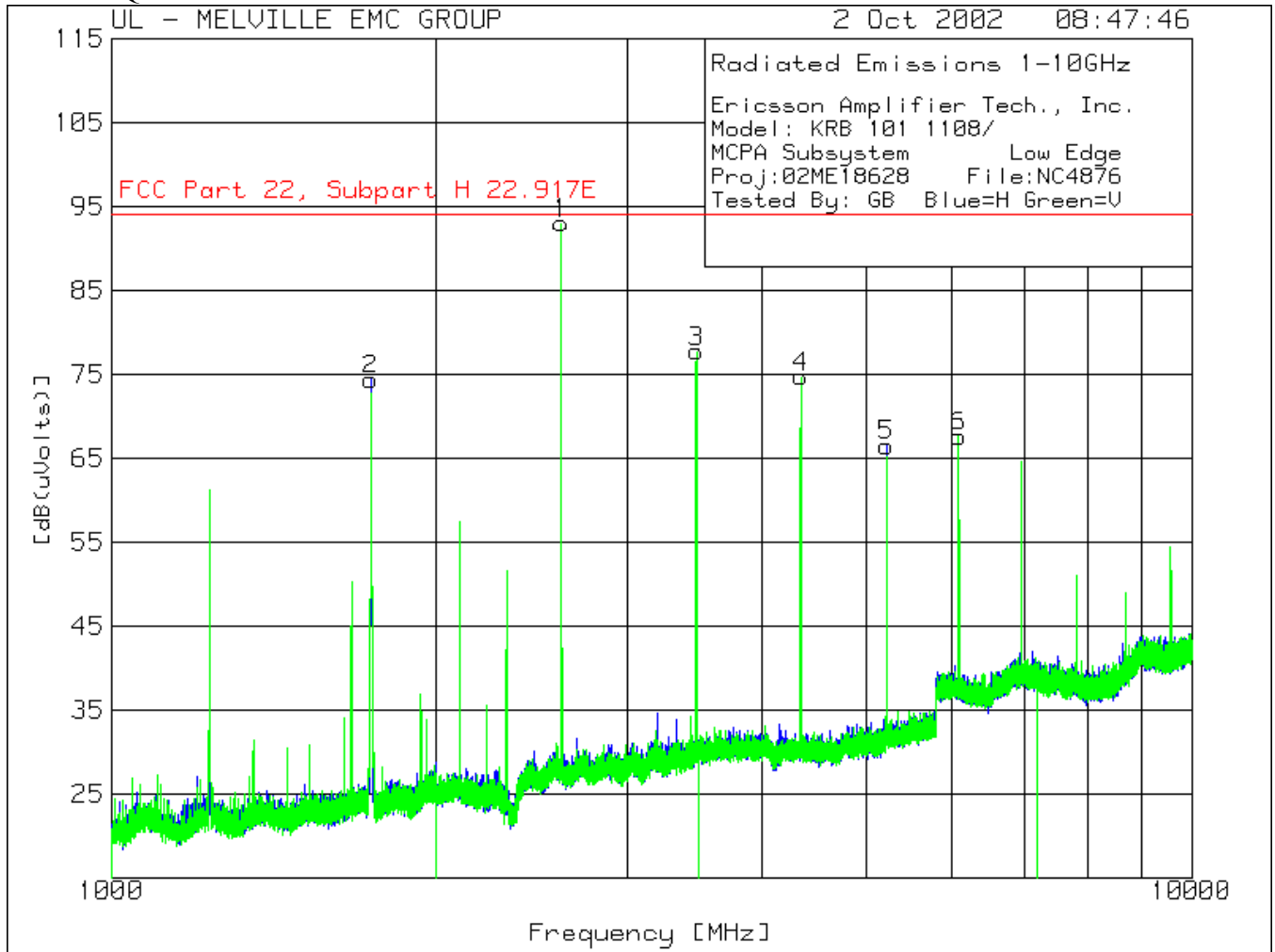
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 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

Issued: 10/22/02

Ericsson Amplifier Tech.
 Model:KRB 101 1108/ EDGE
 Multi-Carrier Amp 893.6MHz
 Proj:02ME18628 File:NC4876
 Tested By:PF Bl=Horz Gr=Vert

No.	Test Frequency [MHz]	Meter Reading [dB (uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1
Range: 1 30 - 200MHz -----						
3	160.0587	22.52 pk	1.8	16.88	41.2	94
	Azimuth:131	Height:99	Horz	Margin [dB]		-52.8
Range: 2 30 - 200MHz -----						
1	31.996	29.71 pk	.86	14.03	44.6	94
	Azimuth:233	Height:100	Vert	Margin [dB]		-49.4
2	95.953	33.59 pk	1.38	11.03	46	94
	Azimuth:40	Height:100	Vert	Margin [dB]		-48
Range: 4 200 - 1000MHz -----						
4	311.7735	27.91 pk	2.38	14.61	44.9	94
	Azimuth:1	Height:199	Vert	Margin [dB]		-49.1
5	327.7602	28.43 pk	2.48	15.09	46	94
	Azimuth:270	Height:199	Vert	Margin [dB]		-48
6	407.96	26 pk	3	16.2	45.2	94
	Azimuth:127	Height:100	Vert	Margin [dB]		-48.8
7	*893.5654	74.73 pk	4.47	23.4	102.6	94
	Azimuth:125	Height:100	Vert	Margin [dB]		8.6

LIMIT 1: Pt 22 SubPart H, 22.917E
 *Fundamental Frequency
 pk - Peak detector
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 Project Number: 02ME18628
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 FCC ID: QANKRB1011108

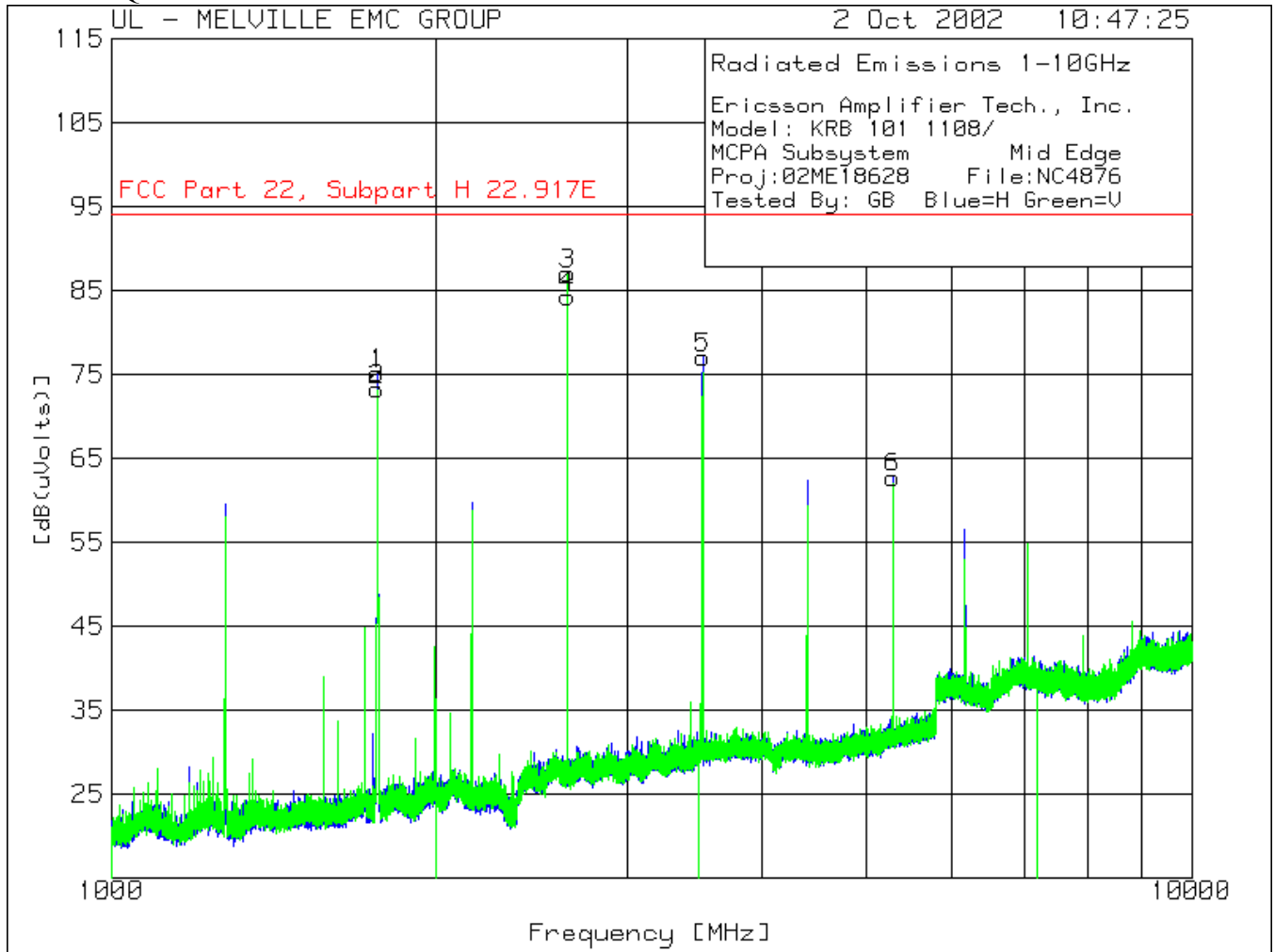
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Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/
 MCPA Subsystem Low Edge
 Proj:02ME18628 File:NC4876
 Tested By: GB Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1
Range: 1 1000 - 2000MHz -----						
2	1739.217	78.23 pk	-31.58	27.75	74.4	94
	Azimuth:169	Height:200	Horz	Margin [dB]		-19.6
Range: 3 3500 - 7200MHz -----						
5	5216.685	57.52 pk	-26.55	35.53	66.5	94
	Azimuth:123	Height:200	Horz	Margin [dB]		-27.5
Range: 6 2000 - 3500MHz -----						
1	2608.468	92.37 pk	-30.17	30.8	93	94
	Azimuth:189	Height:200	Vert	Margin [dB]		-1
3	3478.269	72.15 pk	-27.19	32.74	77.7	94
	Azimuth:165	Height:200	Vert	Margin [dB]		-16.3
Range: 7 3500 - 7200MHz -----						
4	4345.635	68.11 pk	-27.33	33.92	74.7	94
	Azimuth:188	Height:200	Vert	Margin [dB]		-19.3
6	6085.887	55.49 pk	-24.6	36.71	67.6	94
	Azimuth:256	Height:200	Vert	Margin [dB]		-26.4

LIMIT 1: FCC Part 22, Subpart H 22.917E

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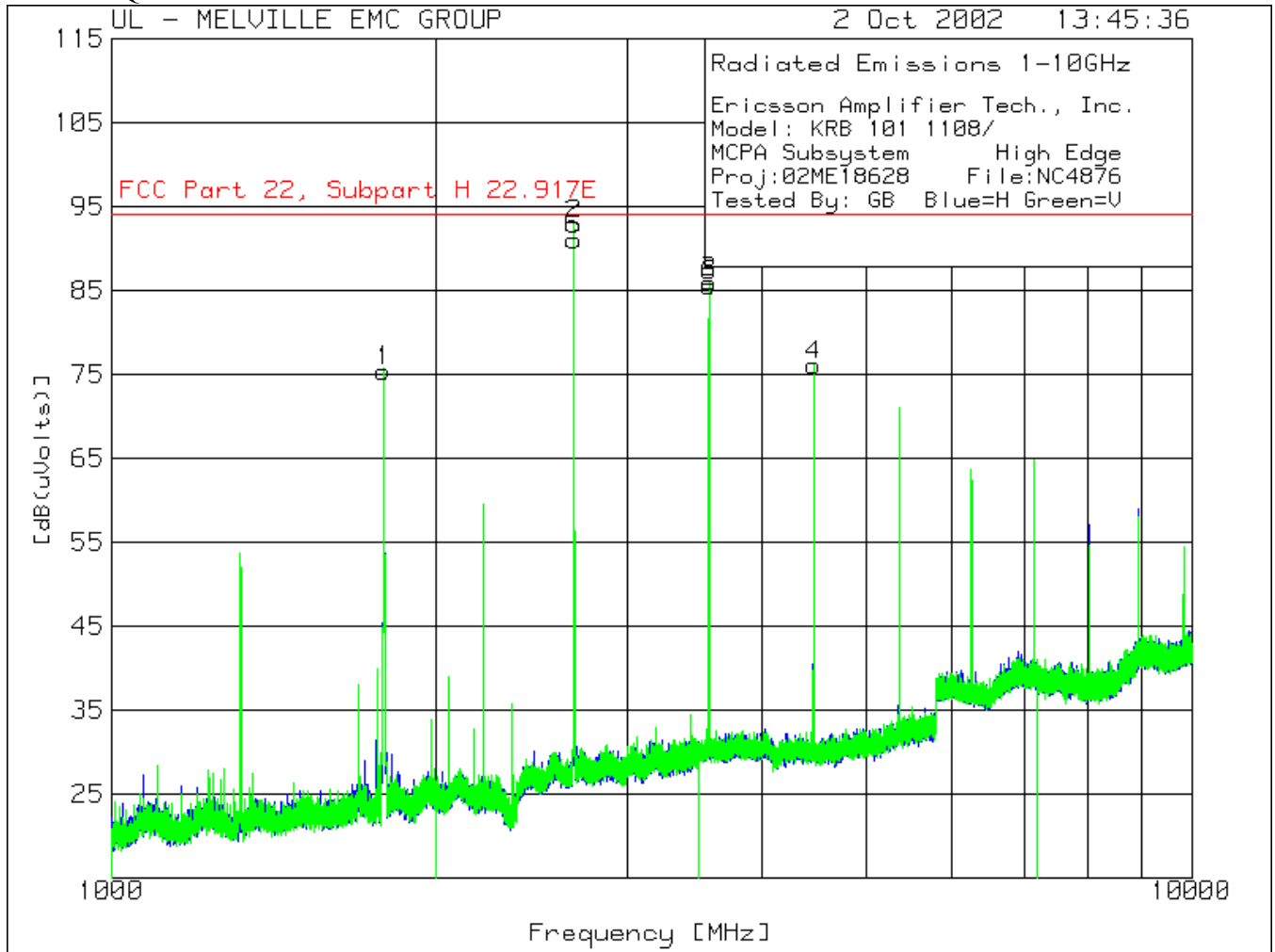
Issued: 10/22/02

Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/
 MCPA Subsystem Mid Edge
 Proj:02ME18628 File:NC4876
 Tested By: GB Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1
Range: 1 1000 - 2000MHz -----						
1	1763.197	78.75 pk	-31.51	27.86	75.1	94
	Azimuth:182	Height:101	Horz	Margin [dB]		-18.9
Range: 2 2000 - 3500MHz -----						
4	2644.436	83.52 pk	-30.08	30.86	84.3	94
	Azimuth:20	Height:200	Horz	Margin [dB]		-9.7
Range: 3 3500 - 7200MHz -----						
5	3525.877	71.24 pk	-27.12	32.88	77	94
	Azimuth:358	Height:199	Horz	Margin [dB]		-17
6	5288.31	53.46 pk	-26.44	35.68	62.7	94
	Azimuth:21	Height:199	Horz	Margin [dB]		-31.3
Range: 5 1000 - 2000MHz -----						
2	1762.698	76.85 pk	-31.51	27.86	73.2	94
	Azimuth:93	Height:200	Vert	Margin [dB]		-20.8
Range: 6 2000 - 3500MHz -----						
3	2644.061	86.22 pk	-30.08	30.86	87	94
	Azimuth:239	Height:199	Vert	Margin [dB]		-7

LIMIT 1: FCC Part 22, Subpart H 22.917E

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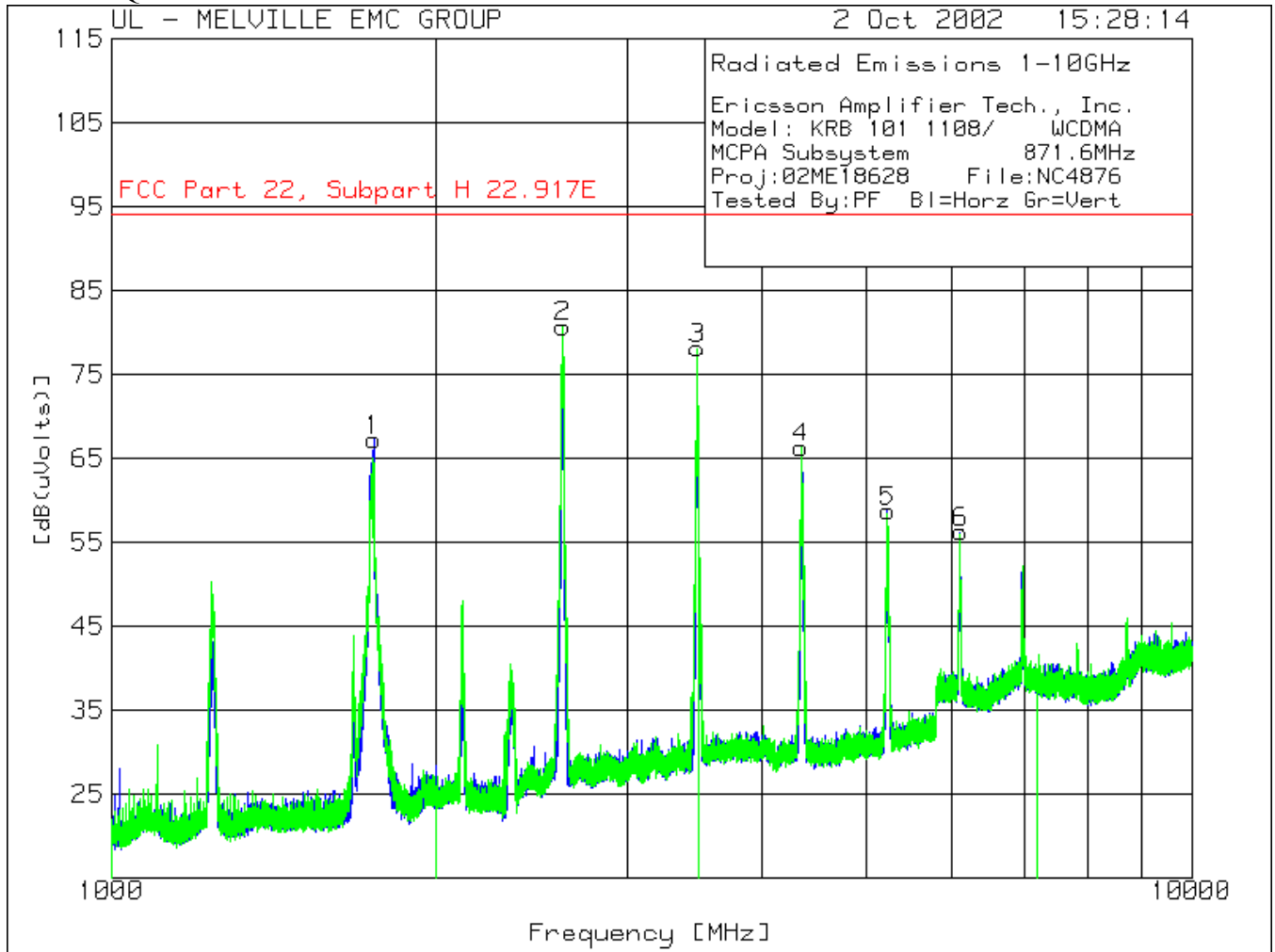
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Issued: 10/22/02

Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/
 MCPA Subsystem High Edge
 Proj:02ME18628 File:NC4876
 Tested By: GB Blue=H Green=V

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1
Range: 1 1000 - 2000MHz -----						
1	1787.344	78.87 pk	-31.43	27.96	75.4	94
	Azimuth:170	Height:100	Horz	Margin [dB]		-18.6
Range: 2 2000 - 3500MHz -----						
5	2680.405	90.07 pk	-29.99	30.92	91	94
	Azimuth:21	Height:199	Horz	Margin [dB]		-3
Range: 3 3500 - 7200MHz -----						
6	3573.935	79.7 pk	-27.14	33.04	85.6	94
	Azimuth:342	Height:199	Horz	Margin [dB]		-8.4
Range: 6 2000 - 3500MHz -----						
2	2680.592	91.96 pk	-29.99	30.93	92.9	94
	Azimuth:240	Height:101	Vert	Margin [dB]		-1.1
Range: 7 3500 - 7200MHz -----						
3	3573.935	80.1 pk	-27.14	33.04	86	94
	Azimuth:340	Height:101	Vert	Margin [dB]		-8
4	4467.628	69.66 pk	-27.31	33.75	76.1	94
	Azimuth:236	Height:200	Vert	Margin [dB]		-17.9

LIMIT 1: FCC Part 22, Subpart H 22.917E
 pk - Peak detector
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 tm - Trace Math Result



File Number: NC4876
 Project Number: 02ME18628
 Model Number: KRB 101 1108
 FCC ID: QANKRB1011108

Issued: 10/22/02

Ericsson Amplifier Tech., Inc.
 Model: KRB 101 1108/ WCDMA
 MCPA Subsystem 871.6MHz
 Proj:02ME18628 File:NC4876
 Tested By:PF Bl=Horz Gr=Vert

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1
Range: 1 1000 - 2000MHz -----						
1	1748.043	70.97 pk	-31.56	27.79	67.2	94
	Azimuth:16	Height:100	Horz	Margin [dB]		-26.8
Range: 3 3500 - 7200MHz -----						
5	5227.776	49.68 pk	-26.54	35.56	58.7	94
	Azimuth:21	Height:199	Horz	Margin [dB]		-35.3
6	6106.22	44.11 pk	-24.6	36.69	56.2	94
	Azimuth:298	Height:199	Horz	Margin [dB]		-37.8
Range: 6 2000 - 3500MHz -----						
2	2616.71	80.04 pk	-30.15	30.81	80.7	94
	Azimuth:234	Height:199	Vert	Margin [dB]		-13.3
3	3485.762	72.5 pk	-27.16	32.76	78.1	94
	Azimuth:236	Height:199	Vert	Margin [dB]		-15.9
Range: 7 3500 - 7200MHz -----						
4	4353.26	59.72 pk	-27.33	33.91	66.3	94
	Azimuth:173	Height:200	Vert	Margin [dB]		-27.7

LIMIT 1: FCC Part 22, Subpart H 22.917E

pk - Peak detector
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 av - Average detector
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