

ATTACHMENT C (RADIATED EMISSIONS TEST DATA)

66114ISD(4/99)

DNB Engineering, Inc.

Page 1

1.1 Upper Transmit Frequency (2.482 GHz) 30-1000 MHz Spurious

RADIATED EMISSIONS International 30-1000 MHz Based on (CISPR 22, ANSI C63.4, CISPR 11, GR-1089-CORE Issue 3)

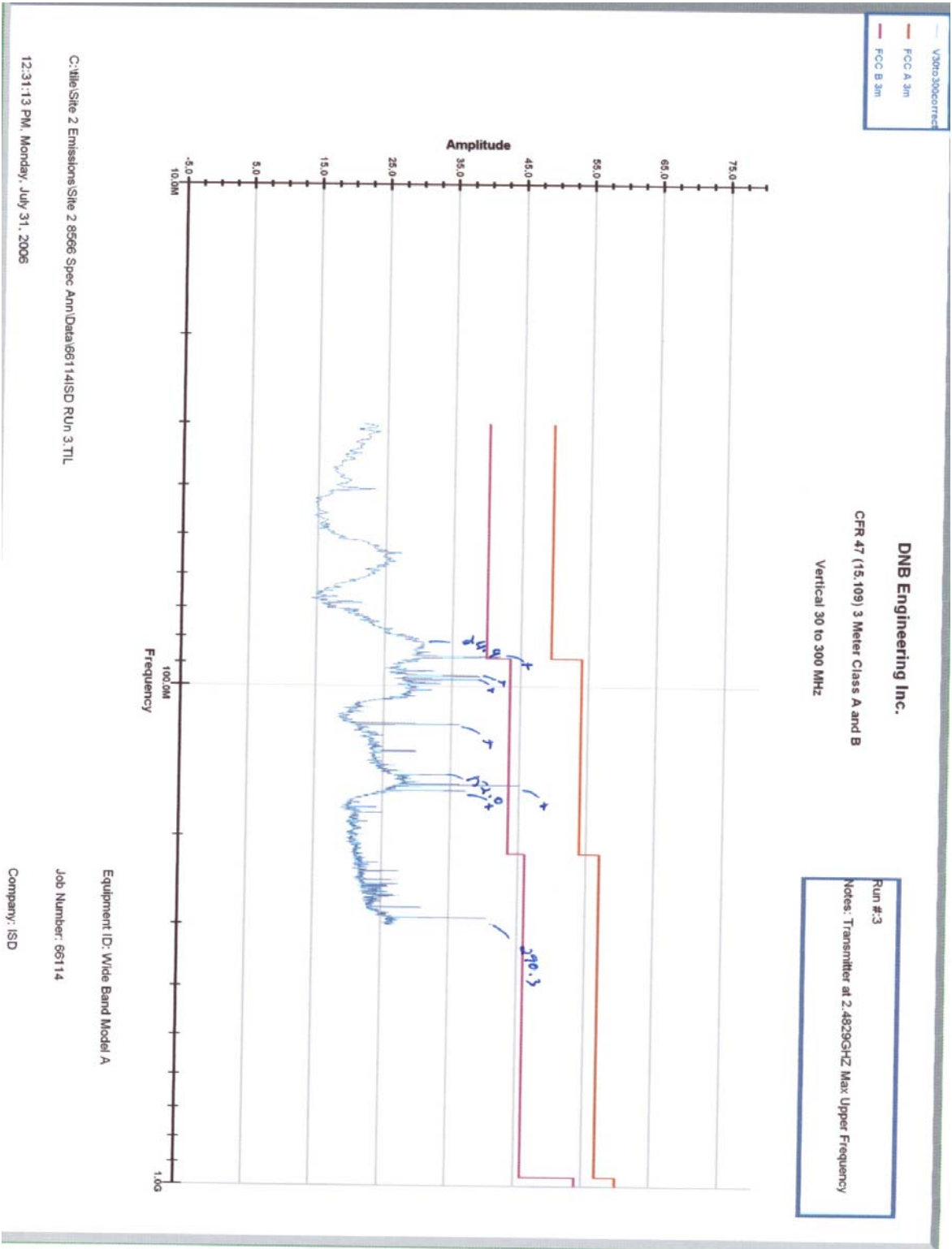
File #: 66114 Engr.: Clay Allred Date: 27-Jul-06 Standard: Part 15
 Site: Distance: 3 meters Cable: 2.2 Class: B
 Bicon: 186 Log: 11 Amp #1: 67 Receiver: U-078
 Amp #2: Humidity: Temp: V

Freq. (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	Limit (dBuV/m)	Delta (dB)	Azimuth (degree)	Height (m)	Hor/ Vert	Meas. Type	Comments
290.300	37.4	25.6	5.6	19.5	-0.5	36.90	46.0	-9.10	316	1	Vert	QP	Run 3 Transmitter at 2.4829GHz
620.417	33.5	27.3	8.2	21.2	2.1	35.60	46.0	-10.40	235	1	Vert	QP	Run 3 Transmitter at 2.4829GHz
585.781	31.9	27.3	7.9	20.6	1.2	33.10	46.0	-12.90	360	1	Vert	QP	Run 3 Transmitter at 2.4829GHz
290.300	30.6	25.6	5.6	20.1	0.1	30.70	46.0	-15.30	135	3	Hor/	QP	Run 3 Transmitter at 2.4829GHz
84.930	37.9	26.3	2.6	7.9	-15.8	22.10	40.0	-17.90	178	1	Vert	QP	Run 3 Transmitter at 2.4829GHz
152.060	30.1	25.9	3.7	14.7	-7.5	22.60	43.5	-20.90	108	1	Vert	QP	Run 3 Transmitter at 2.4829GHz

1100 E. Chalk Creek Rd.
 Coalville, UT, 84017

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 Fax (435) 336-4436



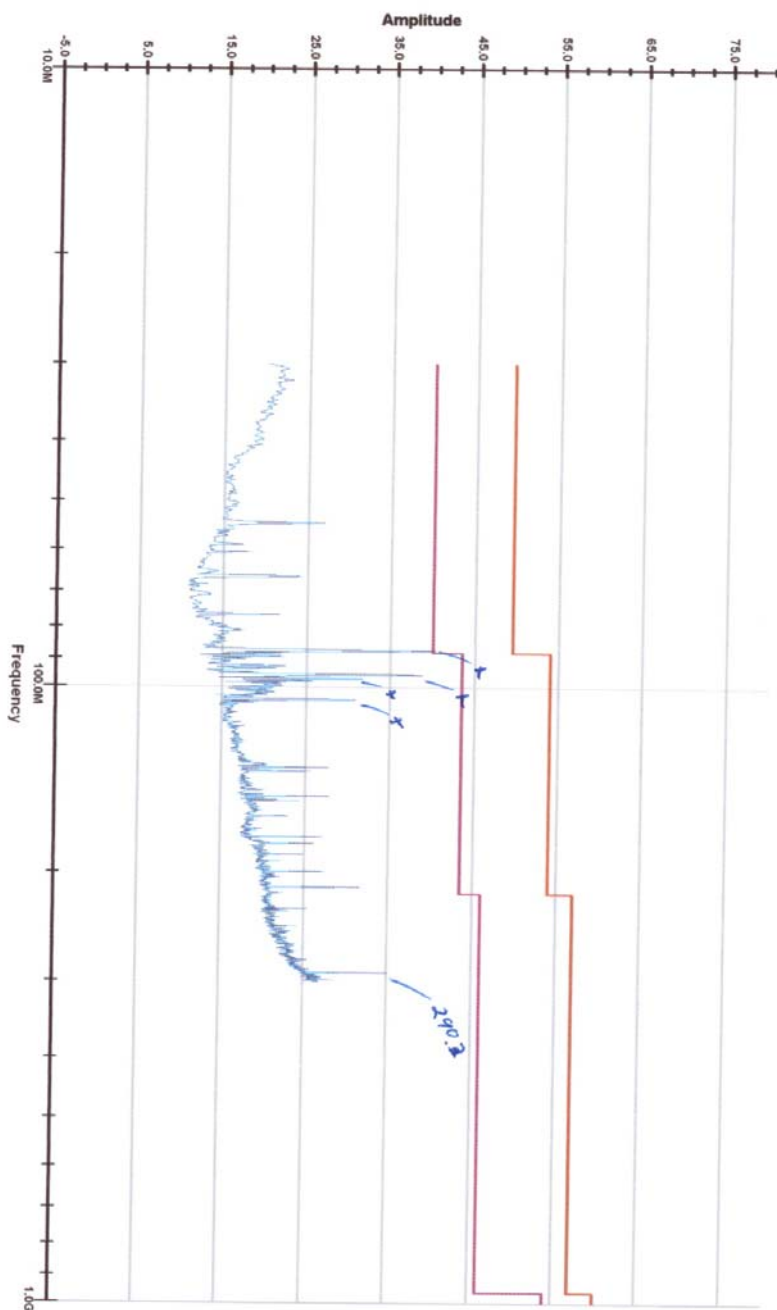
H3000300C01
 FCC A 3m
 FCC B 3m

DNB Engineering Inc.

CFR 47 (15.109) 3 Meter Class A and B
 Horizontal 30 to 300 MHz

Run #:3

Notes: Transmitter at 2.4825GHz Max Upper Frequency



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12:48:44 PM, Monday, July 31, 2006

Equipment ID: Wide Band Model A

Job Number: 66114

Company: ISD

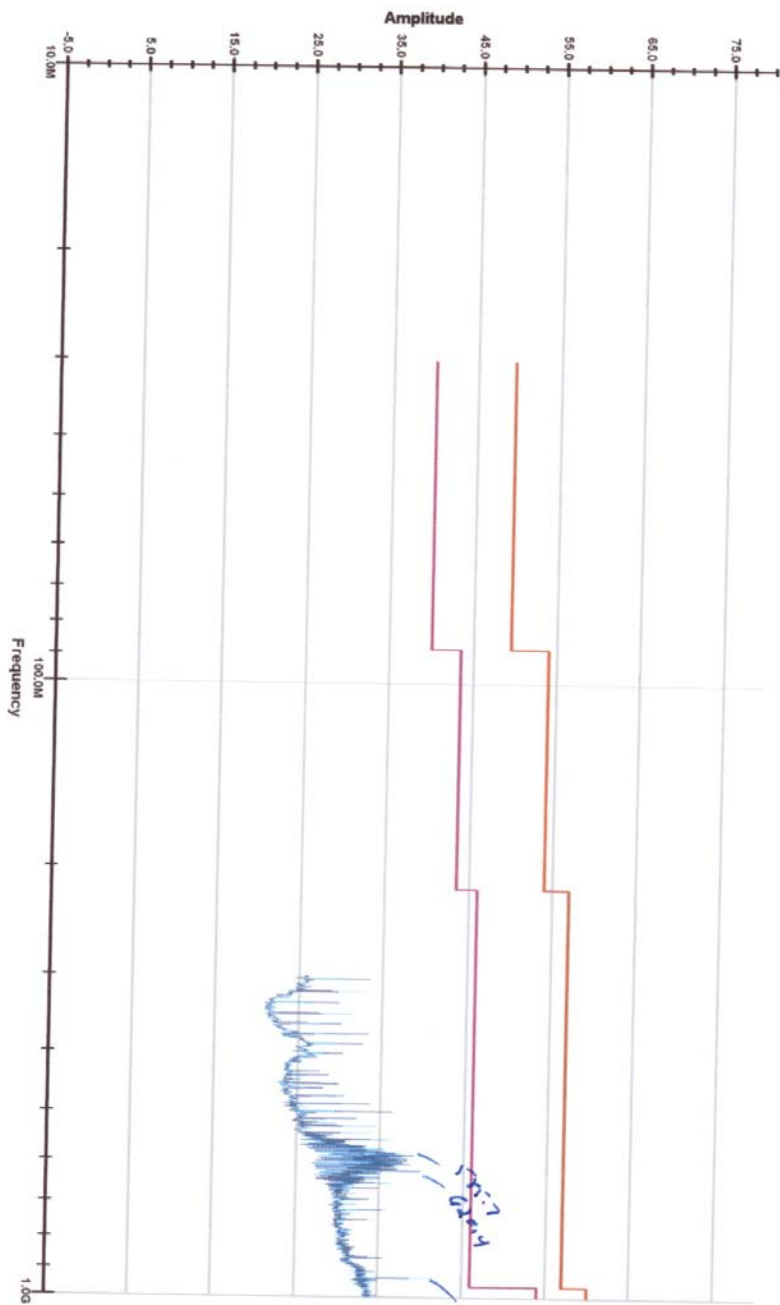
V300m10coeff
FCC A 3m
FCC B 3m

DNB Engineering Inc.

CFR 47 (15.109) 3 Meter Class A and B
Vertical 300 to 1000MHz

Run #3

Notes: Transmitter at 2.4829GHz Max Upper Frequency



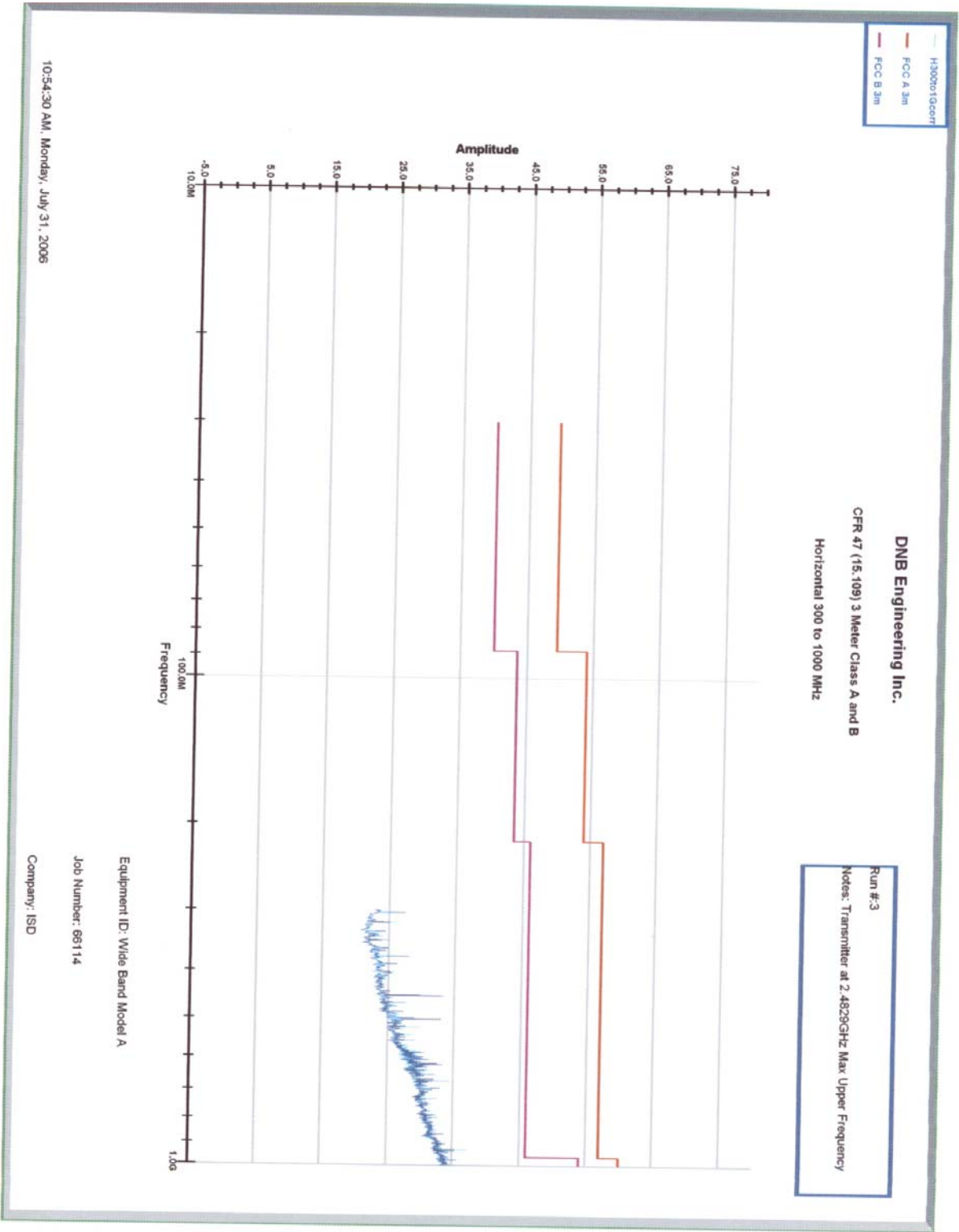
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10:44:31 AM, Monday, July 31, 2006

Equipment ID: Wide Band Model A

Job Number: 66114

Company: ISD



66114ISD(4/99)

DNB Engineering, Inc.

Page 1

1.2 Lower Transmit Frequency (2.474 GHz) 30-1000 MHz Spurious

RADIATED EMISSIONS

International 30-1000 MHz Based on (CISPR 22, ANSI C63.4, CISPR 11, GR-1089-CORE Issue 3)

File #: 66114 Engr.: Clay Allred Date: 27-Jul-06 Standard: Part 15

Site: Distance: 3 meters Cable: 2.2 Class: B

Bicon: 186 Log: 11 Amp #1: 67 Receiver: U-078

Amp #2: Humidity: Temp: °C

Freq. (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	Limit (dBuV/m)	Delta (dB)	Azimuth (degree)	Height (m)	Hor/ Vert	Meas. Type QP,AVE,PK	Comments
290.297	38.6	25.6	5.6	19.5	-0.5	38.10	46.0	-7.90	290	1	Vert	QP	Run 3 Transmitter at 2.4744GHz
618.683	35.3	27.3	8.2	21.2	2.1	37.40	46.0	-8.60	255	1	Vert	QP	Run 3 Transmitter at 2.4744GHz
594.425	34.5	27.3	8.0	20.7	1.4	35.90	46.0	-10.10	294	1	Vert	QP	Run 3 Transmitter at 2.4744GHz
580.599	33.7	27.3	7.9	20.5	1.1	34.80	46.0	-11.20	245	1	Vert	QP	Run 3 Transmitter at 2.4744GHz
290.300	30.9	25.6	5.6	20.1	0.1	31.00	46.0	-15.00	128	3.25	Hor/	QP	Run 3 Transmitter at 2.4744GHz
85.519	37.8	26.3	2.6	8.1	-15.6	22.20	40.0	-17.80	155	1	Vert	QP	Run 3 Transmitter at 2.4744GHz
152.060	29.9	25.9	3.7	14.7	-7.5	22.40	43.5	-21.10	360	1	Vert	QP	Run 3 Transmitter at 2.4744GHz
69.119	33.6	26.3	2.3	5.6	-18.4	15.20	40.0	-24.80	209	1	Vert	QP	Run 3 Transmitter at 2.4744GHz

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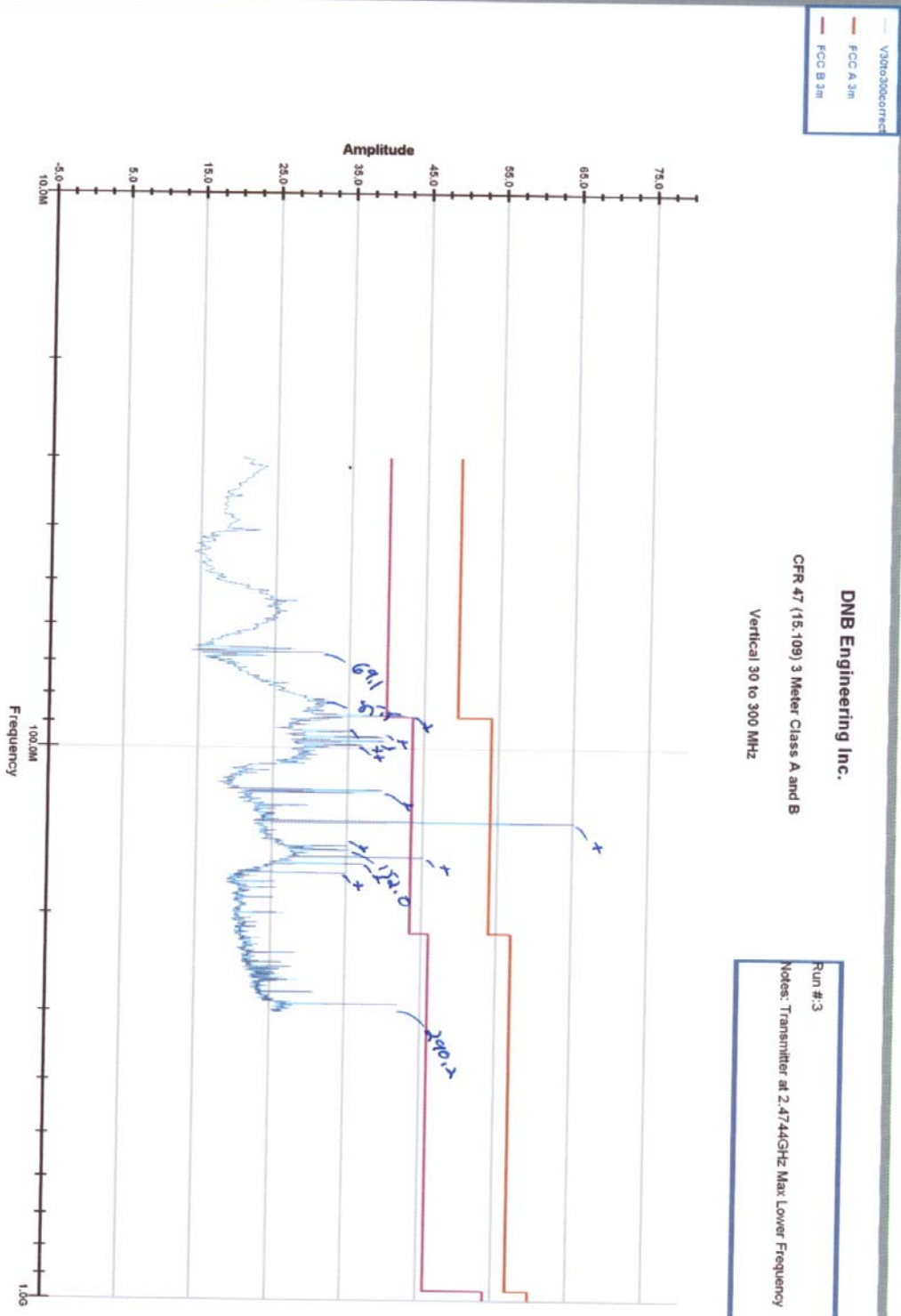
DNB Engineering Inc.

CFR 47 (15.109) 3 Meter Class A and B

Vertical 30 to 300 MHz

Run #3

Notes: Transmitter at 2.474GHz Max Lower Frequency



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11:21:22 AM, Monday, July 31, 2006

Equipment ID: Wide Band Model A

Job Number: 66114

Company: ISD

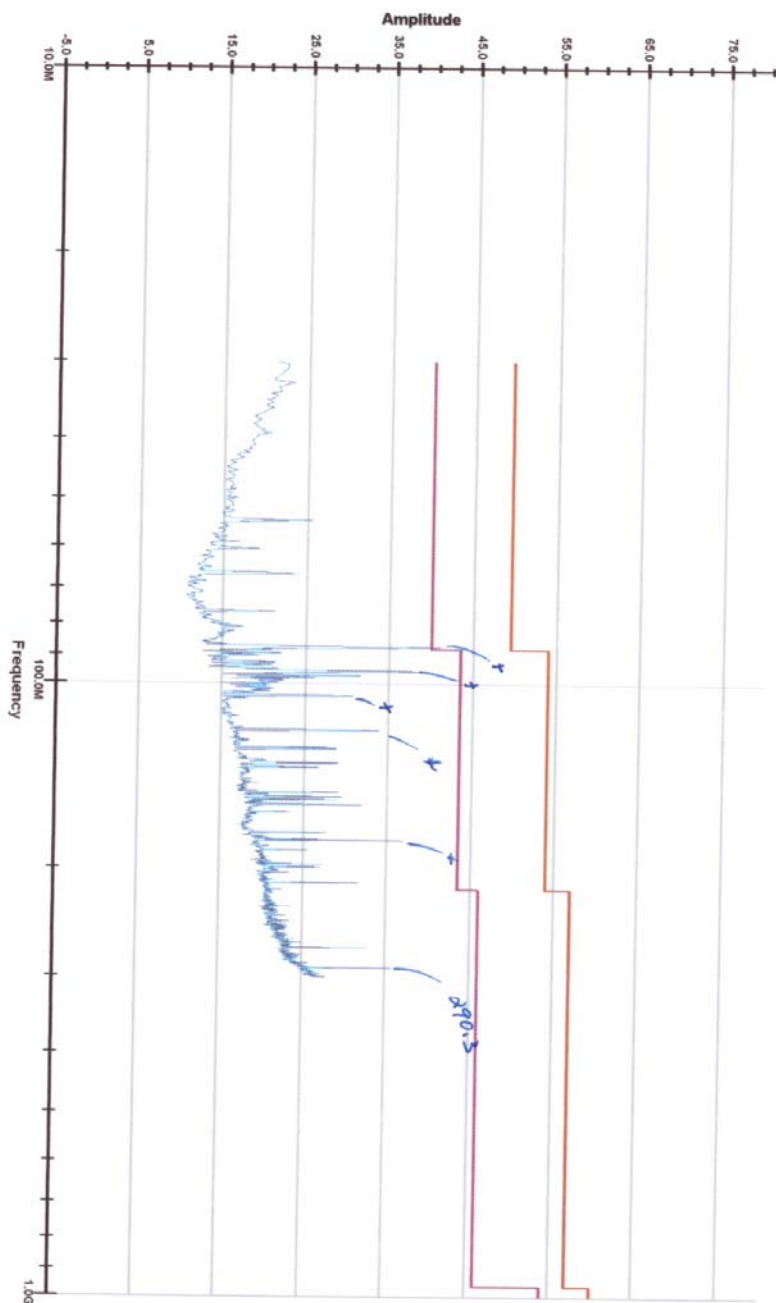
H3000 300C-err
FCC A 3m
FCC B 3m

DNB Engineering Inc.

CFR 47 (15.109) 3 Meter Class A and B
Horizontal 30 to 300 MHz

Run #3

Notes: Transmitter at 2.4744GHz Max Lower Frequency



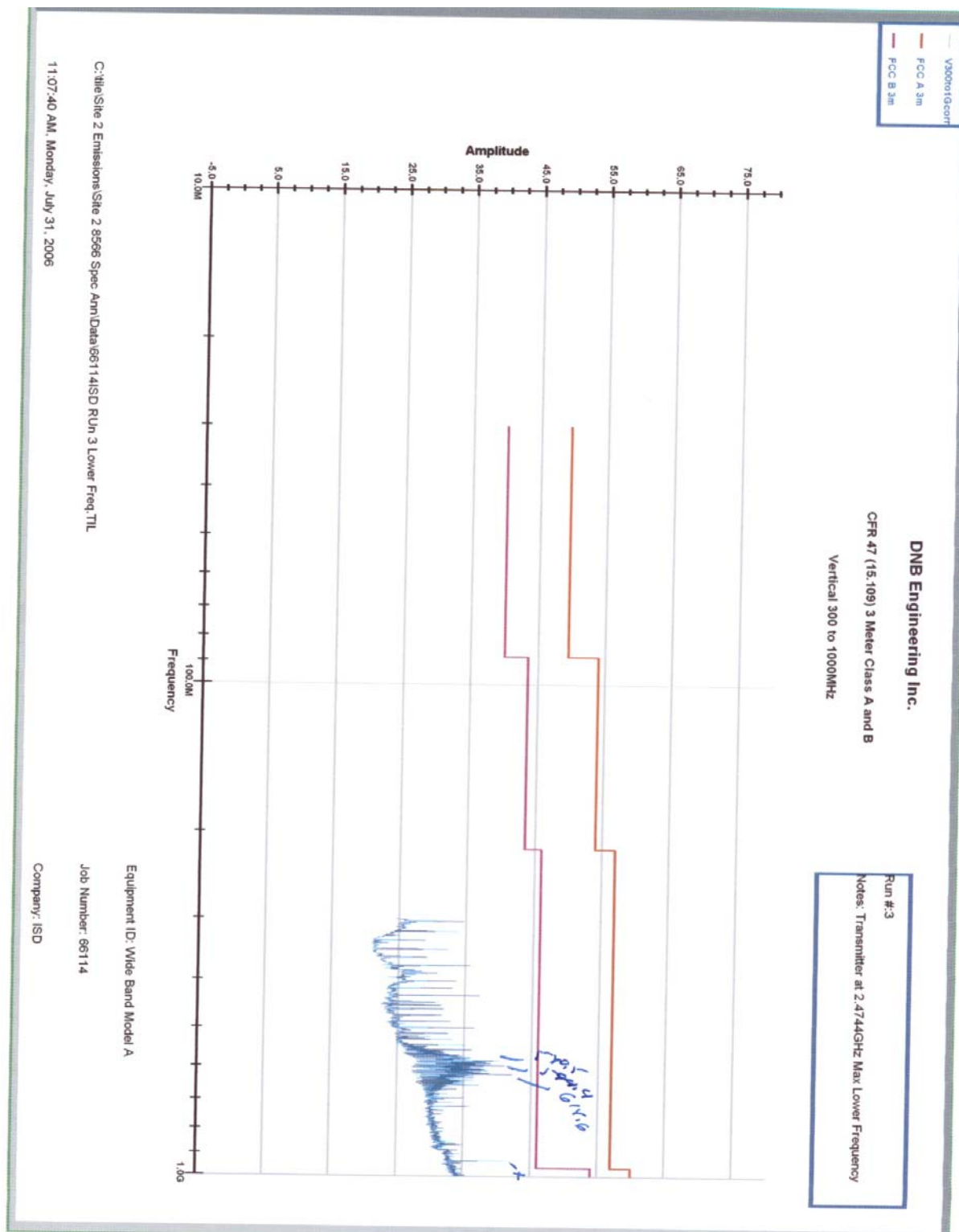
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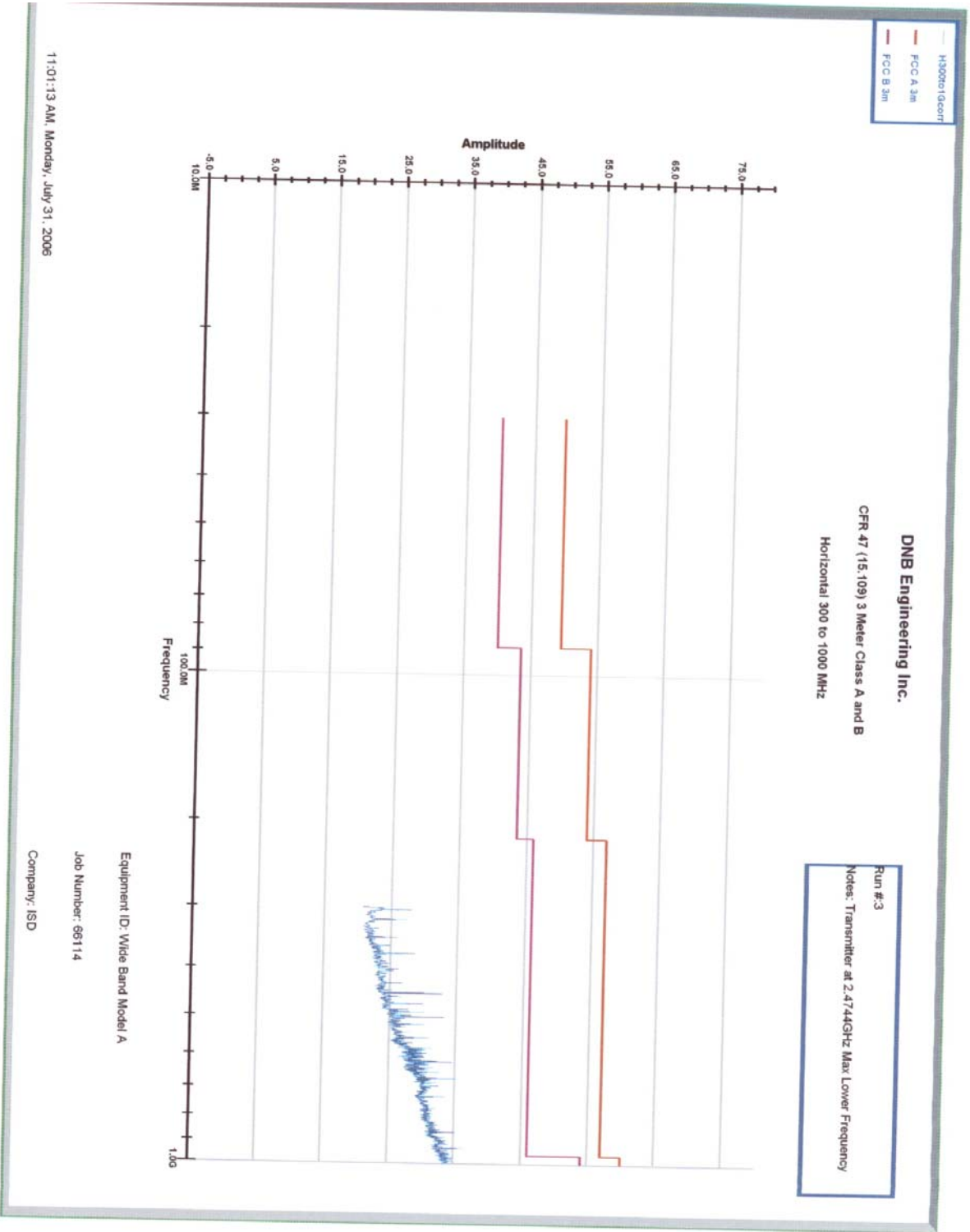
Job Number: 66114

Company: ISD



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11:07:40 AM, Monday, July 31, 2006



1.3 Upper Transmit Frequency (2.482 GHz) Above 1 GHz Spurious

66114 ISD Run 3

DNB Engineering Inc.

8/30/2006

RADIATED EMISSIONS Greater than 1000 MHz Based on (ANSI C63.4, CFR 47 Part 15, GR-1089-CORE Issue 3)

File #: 66114 Engr.: Clay Allred Date: 31-Jul-06 Standard: CFR 47 Part 15
 Site: 1 Distance: 1 meters Cable: 323 Class: B
 Antenna: 71 Amp #1: 162 Amp #2: Receiver: U-138
 Temp: °C Humidity:

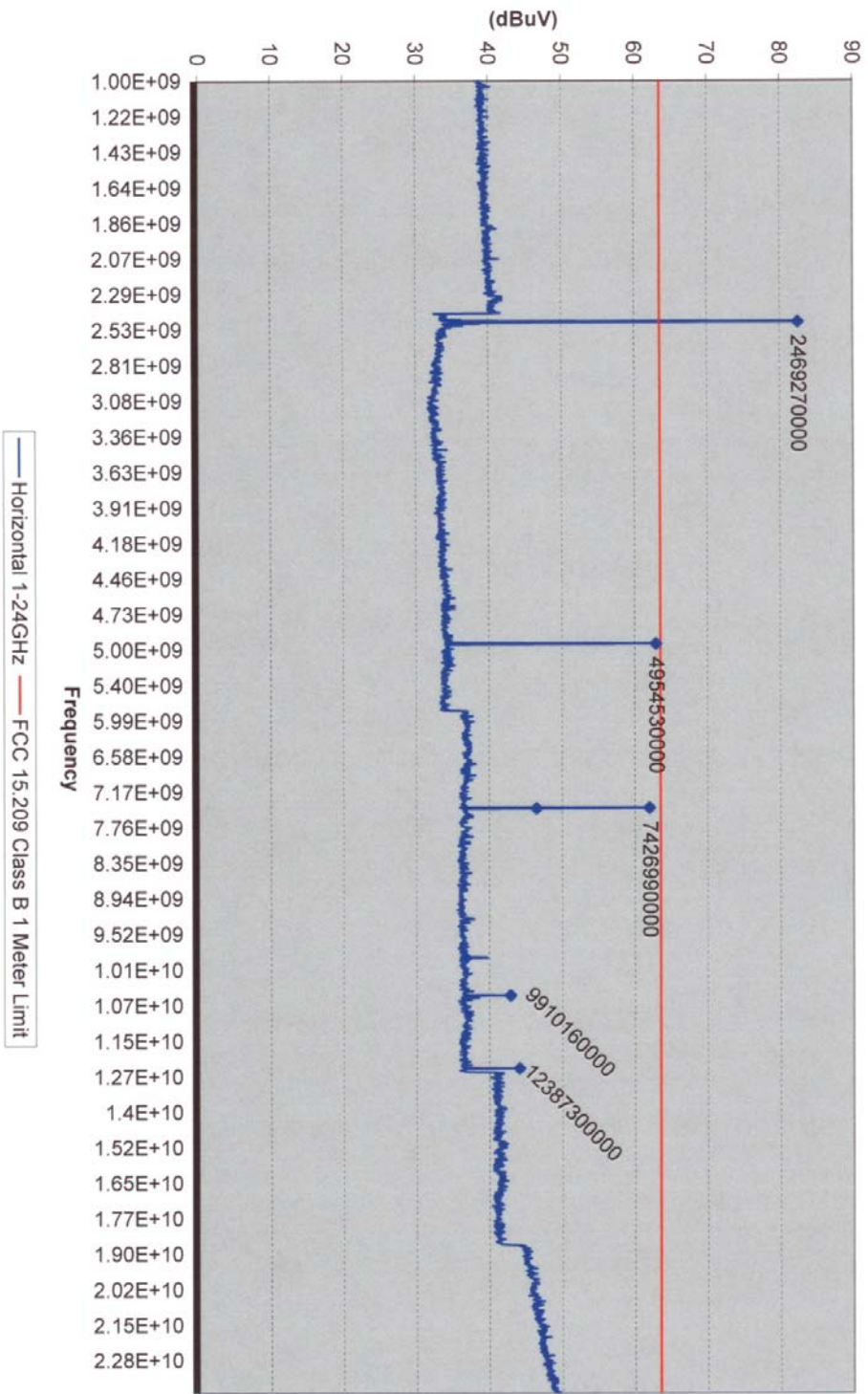
Freq (MHz)	Meas'd (dBuV)	Duty Cycle	Crrct (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	Limit (dBuV/m)	Delta (dB)	Table Height (m)	Hor Vert	Type	Comments
7447.480	64.0	20.0	44.0	27.2	8.9	37.1	18.7	62.7	63.5	-0.8	0	1	Vert	Run 3 @ 2.482GHz Upper Freq.
4963.700	67.5	20.0	47.5	27.6	6.7	35.5	14.6	62.1	63.5	-1.4	37	1	Vert	Run 3 @ 2.482GHz Upper Freq.
7445.500	62.3	20.0	42.3	27.2	8.9	37.1	18.7	61.0	63.5	-2.5	6	1	Hor	Run 3 @ 2.482GHz Upper Freq.
12409.500	50.6	20.0	30.6	24.6	11.7	40.9	27.9	58.5	63.5	-5.0	265	1	Vert	Run 3 @ 2.482GHz Upper Freq.
12409.340	49.4	20.0	29.4	24.6	11.7	40.9	27.9	57.3	63.5	-6.2	338	1	Hor	Run 3 @ 2.482GHz Upper Freq.
4964.000	62.4	20.0	42.4	27.6	6.7	35.5	14.6	57.0	63.5	-6.5	0	1	Hor	Run 3 @ 2.482GHz Upper Freq.
9928.060	47.6	20.0	27.6	26.4	9.8	38.3	21.8	49.4	63.5	-14.1	349	1	Vert	Run 3 @ 2.482GHz Upper Freq.

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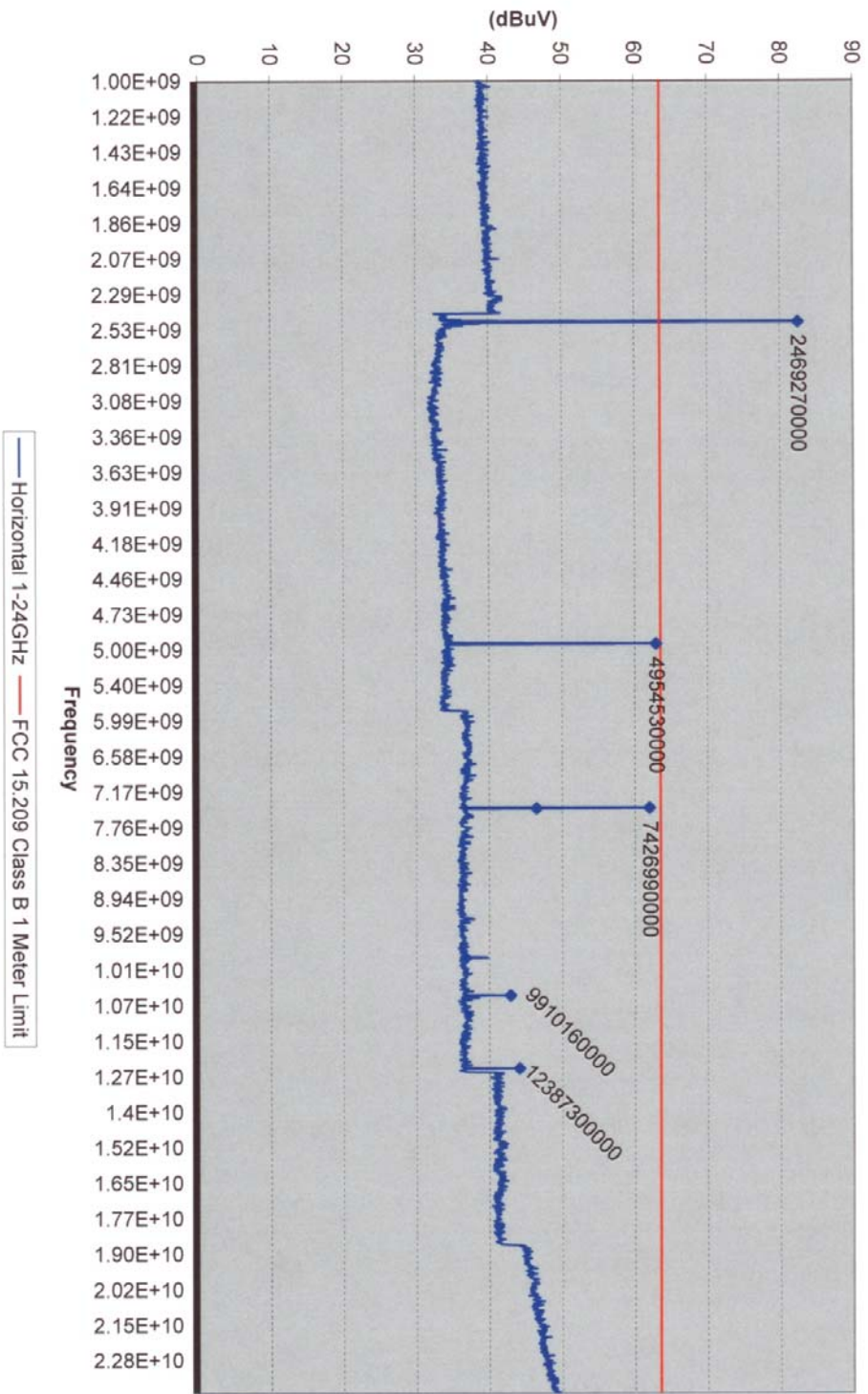
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Horizontal 1-24Ghz Radiated Emissions



Horizontal 1-24Ghz Radiated Emissions



1.4 Lower Transmit Frequency (2.4744 GHz) Above 1 GHz Spurious

66114 ISD Run 3

DNB Engineering Inc.

8/30/2006

RADIATED EMISSIONS
Greater than 1000 MHz Based on (ANSI C63.4, CFR 47 Part 15, GR-1089-CORE Issue 3)

File #: 66114 Engr.: Clay Allred Date: 31-Jul-06 ndard: CFR 47 Part 15
 Site: 1 istance: 1 meters Cable: 323 Class: B
 Antenna: 71 \amp #1: 162 \amp #2: ceiver: U-138
 Temp: °C Humidity:

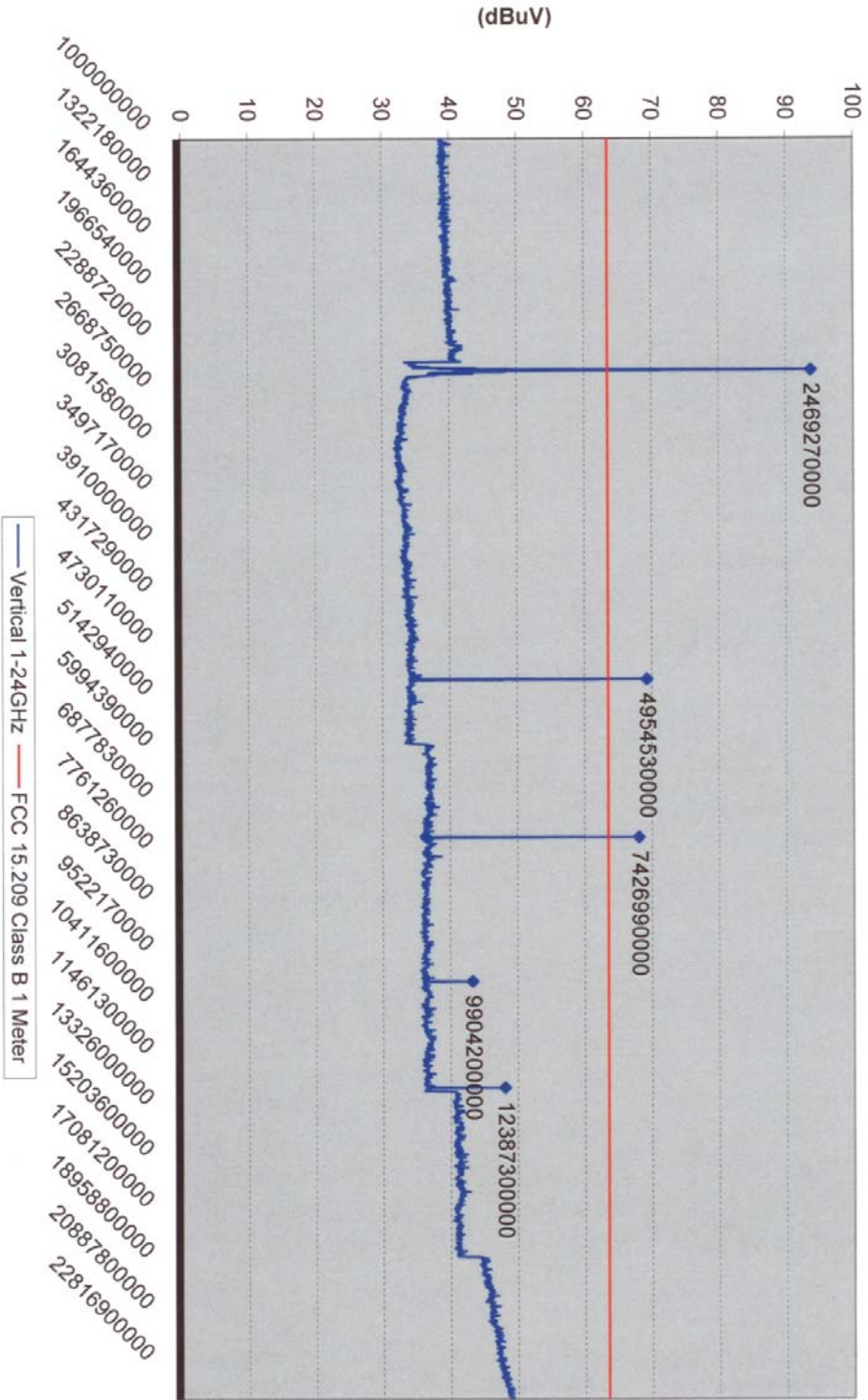
Freq (MHz)	Meas'd (dBuV)	Duty Cycle (dB)	Crrct (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	Limit (dBuV/m)	Delta (dB)	Table (deg)	Height (m)	Hor Vert	Type Ave, PK	Comments
7424.400	64.2	20.0	44.2	27.3	8.9	37.0	18.7	62.9	63.5	-0.6	360	1	Vert	Peak	Run 3 @ 2.474GHz Lower Freq.
4948.500	67.9	20.0	47.9	27.6	6.7	35.4	14.5	62.4	63.5	-1.1	74	1	Vert	Peak	Run 3 @ 2.474GHz Lower Freq.
7422.480	63.4	20.0	43.4	27.3	8.9	37.0	18.7	62.1	63.5	-1.4	5	1	Hor	Peak	Run 3 @ 2.474GHz Lower Freq.
12374.850	49.6	20.0	29.6	24.6	11.7	40.8	27.9	57.5	63.5	-6.0	42	1	Hor	Peak	Run 3 @ 2.474GHz Lower Freq.
4949.100	62.5	20.0	42.5	27.6	6.7	35.4	14.5	57.0	63.5	-6.5	244	1	Hor	Peak	Run 3 @ 2.474GHz Lower Freq.
12370.120	47.9	20.0	27.9	24.6	11.6	40.8	27.9	55.8	63.5	-7.7	203	1	Vert	Peak	Run 3 @ 2.474GHz Lower Freq.
14848.060	43.2	20.0	23.2	22.4	14.2	40.7	32.5	55.7	63.5	-7.8	312	1	Vert	Peak	Run 3 @ 2.474GHz Lower Freq.
9896.860	44.6	20.0	24.6	26.4	9.9	38.3	21.7	46.3	63.5	-17.2	297	1	Vert	Peak	Run 3 @ 2.474GHz Lower Freq.

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1-24GHz Vertical Radiated Emissions



Horizontal 1-24Ghz Radiated Emissions

