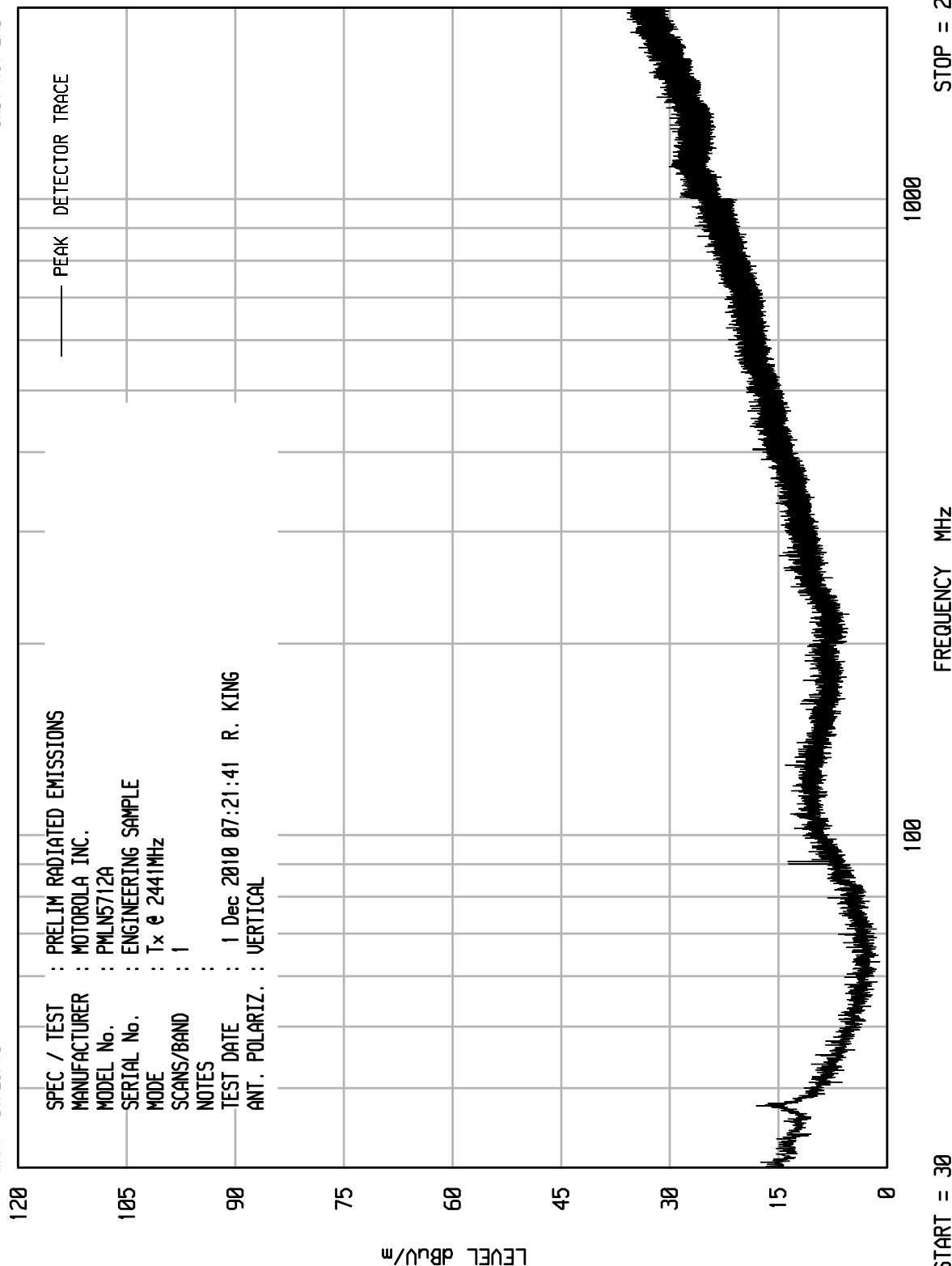


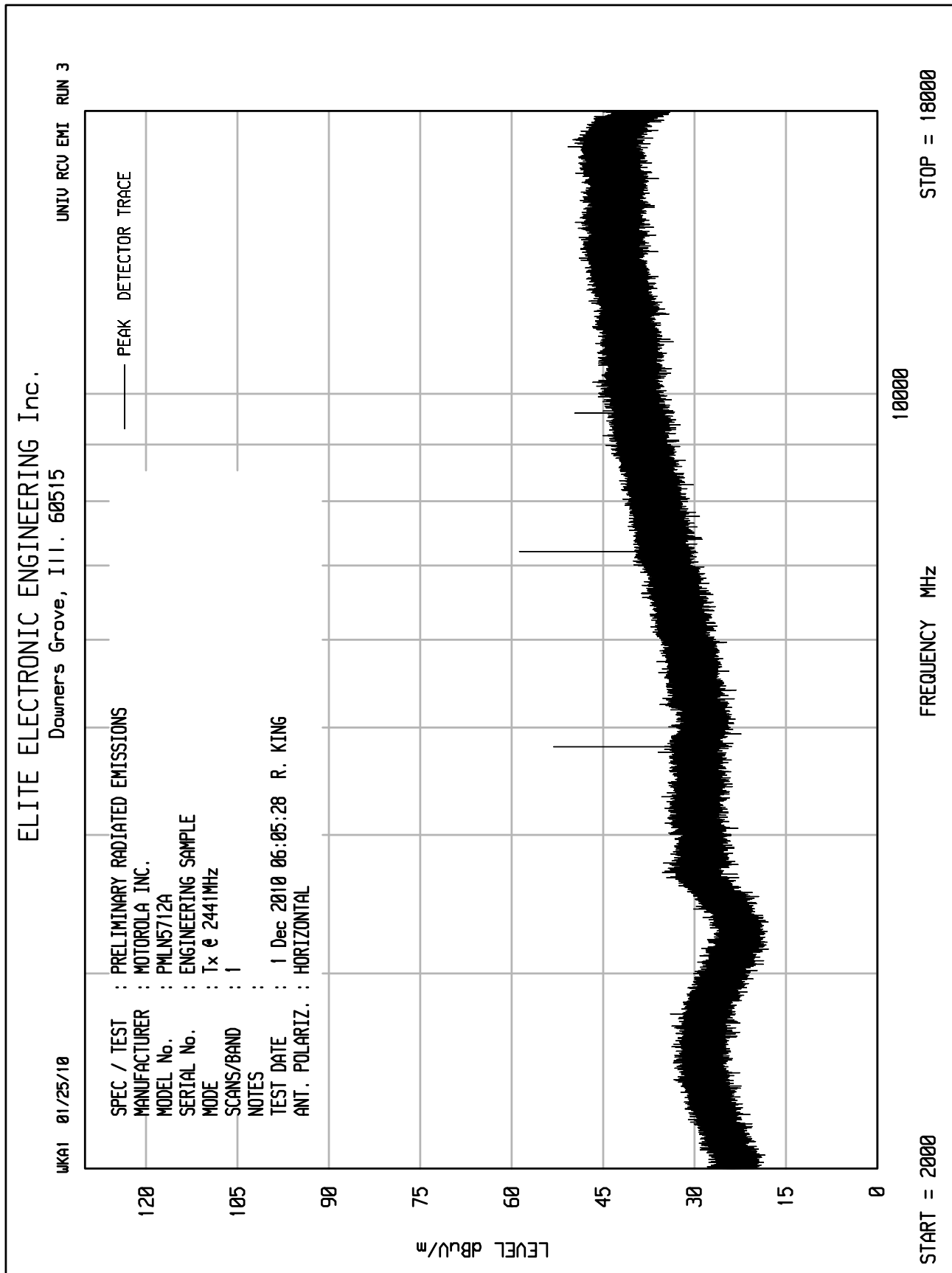
ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 14

WKA1 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
MANUFACTURER : MOTOROLA INC.
MODEL No. : PMLN5712A
SERIAL No. : ENGINEERING SAMPLE
MODE : Tx @ 2441MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 1 Dec 2010 07:21:41 R. KING
ANT. POLARIZ. : VERTICAL



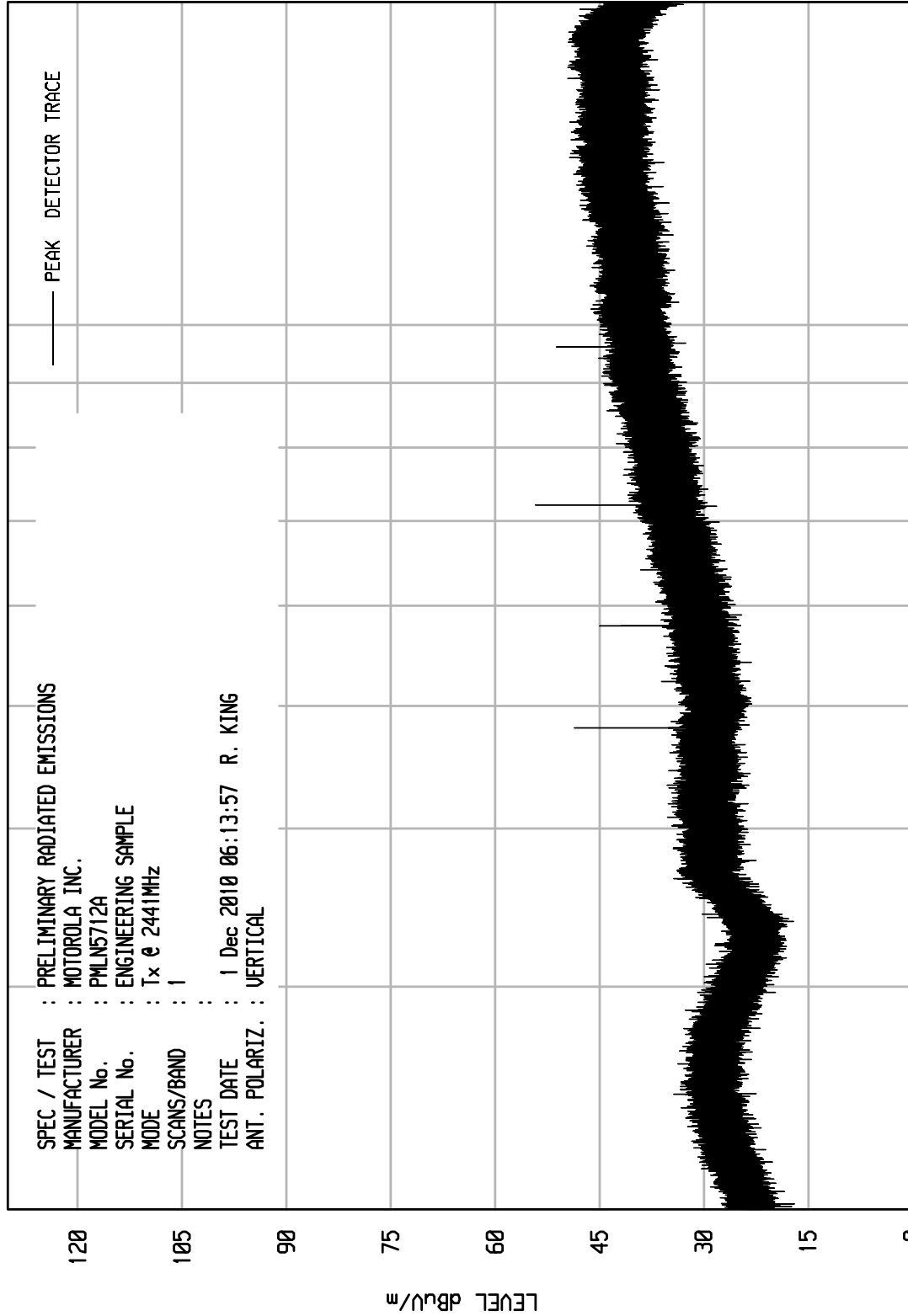


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNITU RCU EMI RUN 4

WKA1 01/25/10

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MOTOROLA INC.
MODEL No. : PMLN5712A
SERIAL No. : ENGINEERING SAMPLE
MODE : Tx @ 2441MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 1 Dec 2010 06:13:57 R. KING
ANT. POLARIZ. : VERTICAL

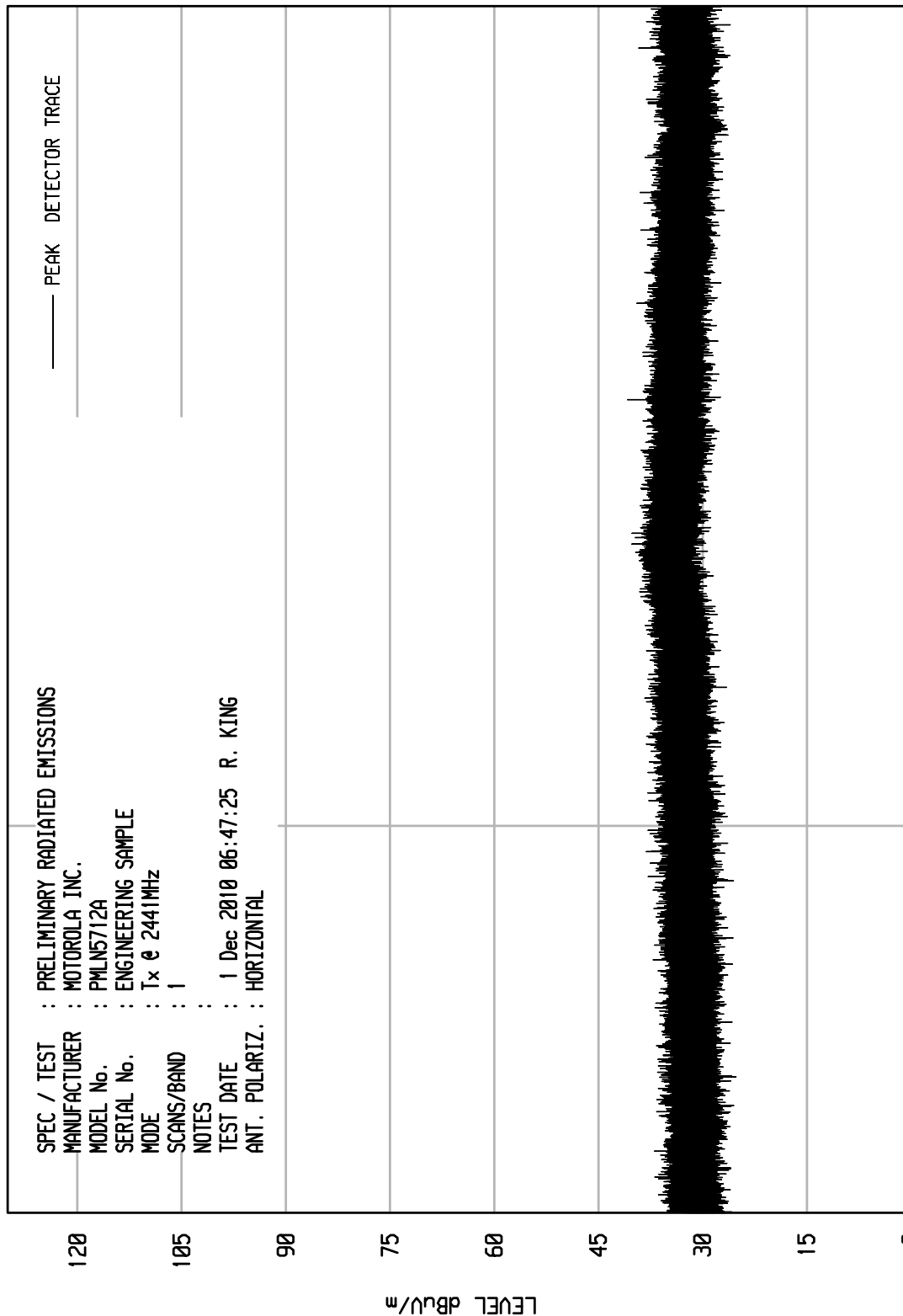




ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

WKA1 07/14/10

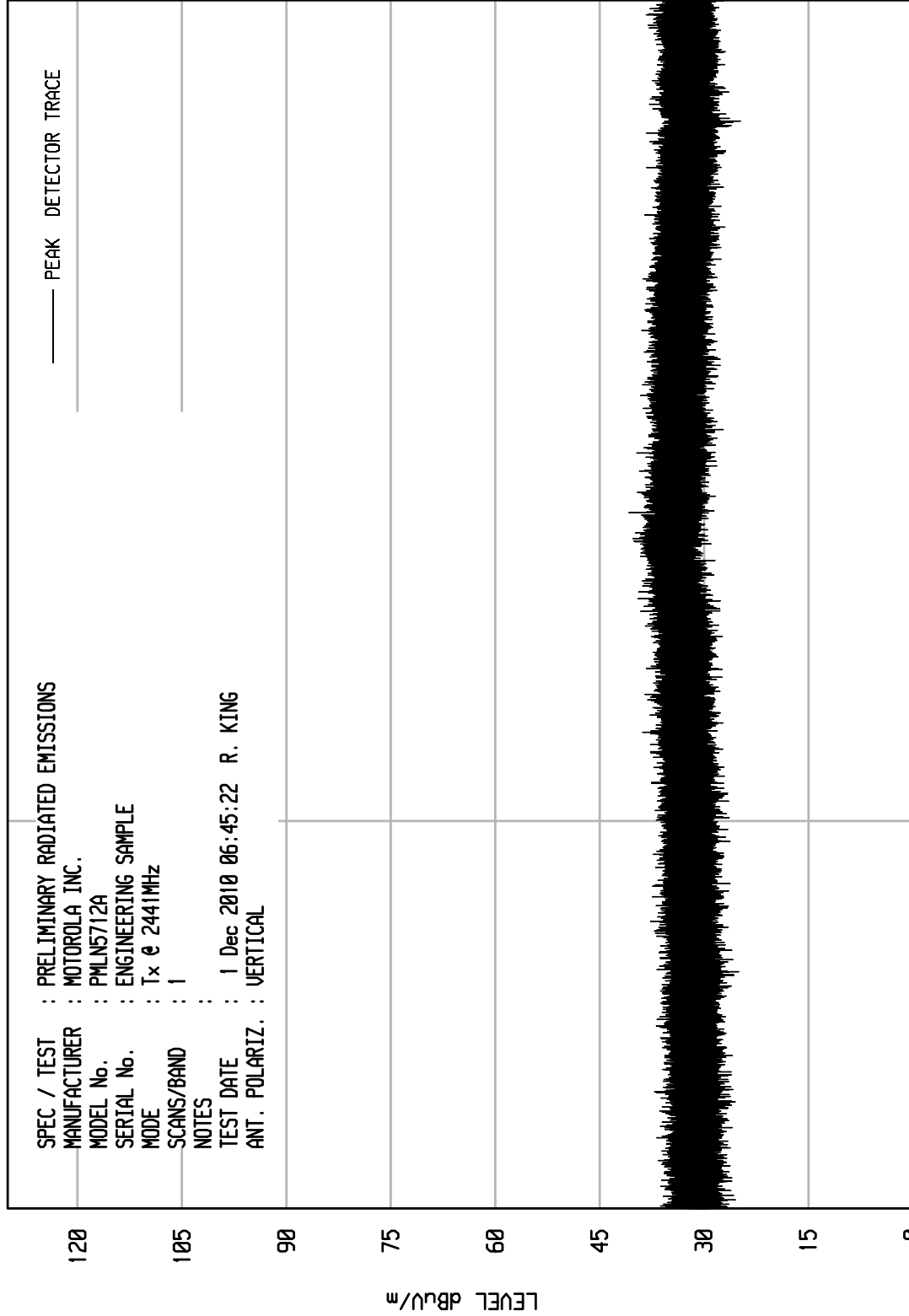
UNITV RCU EMI RUN 4

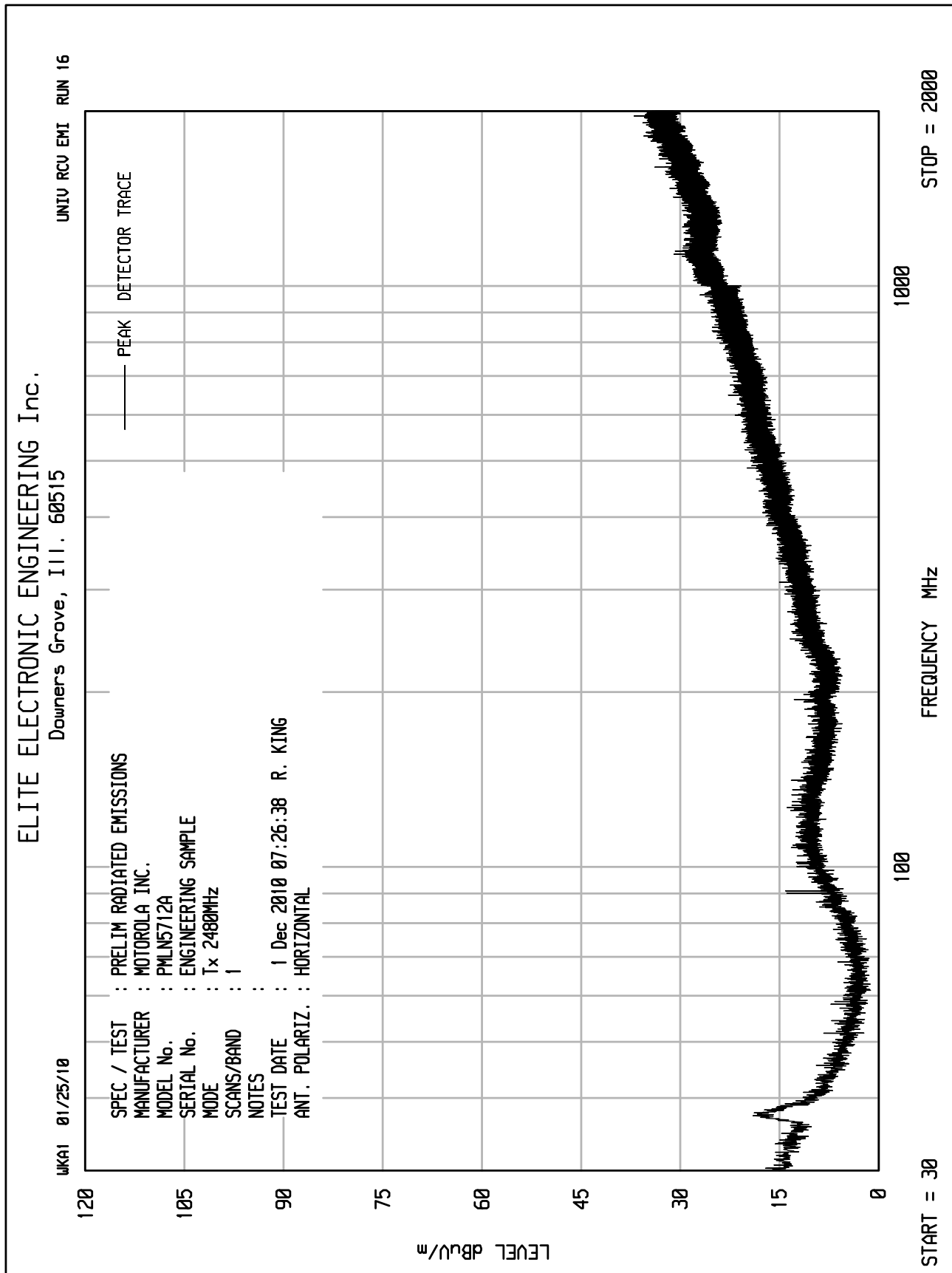


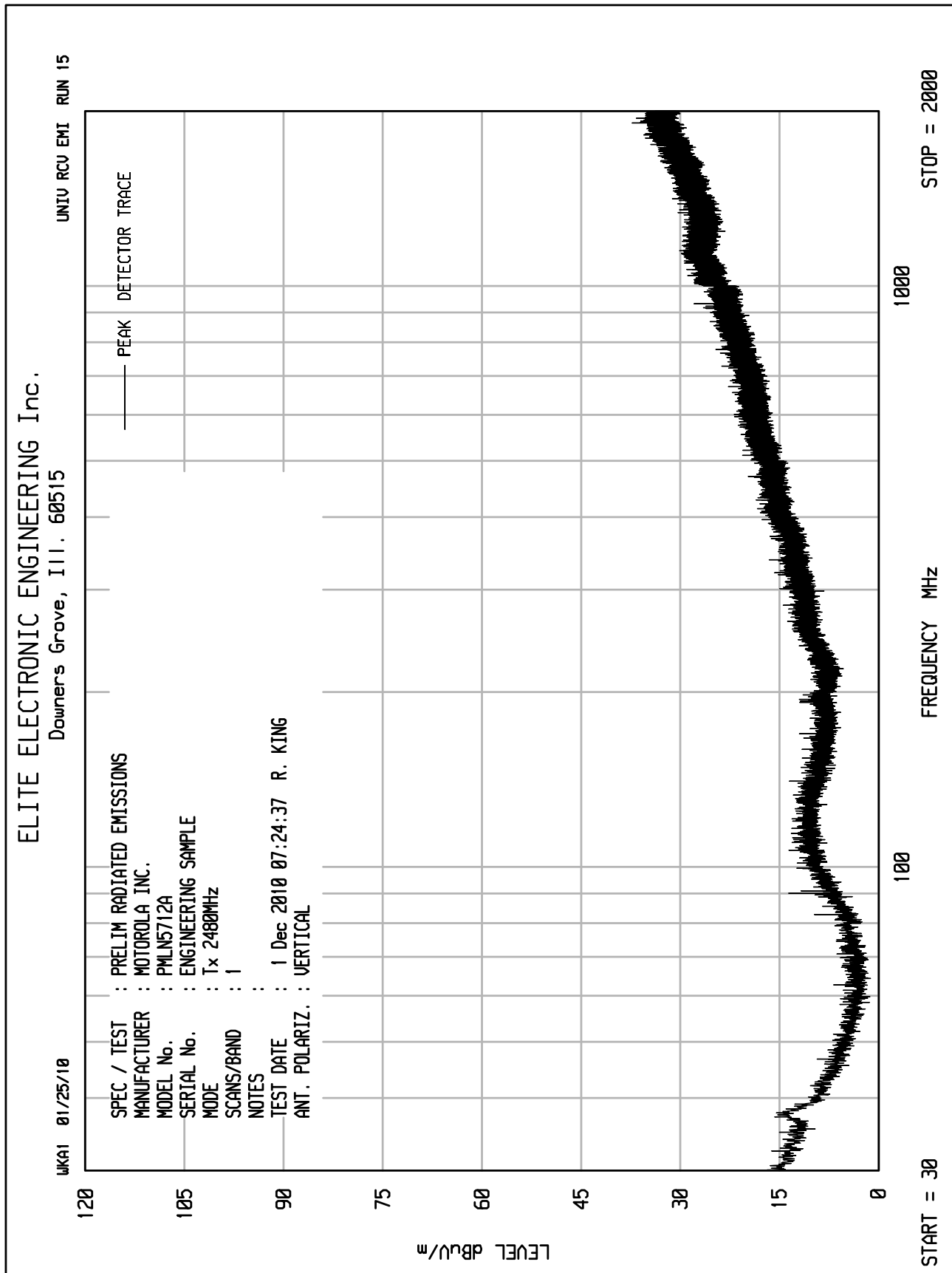
ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

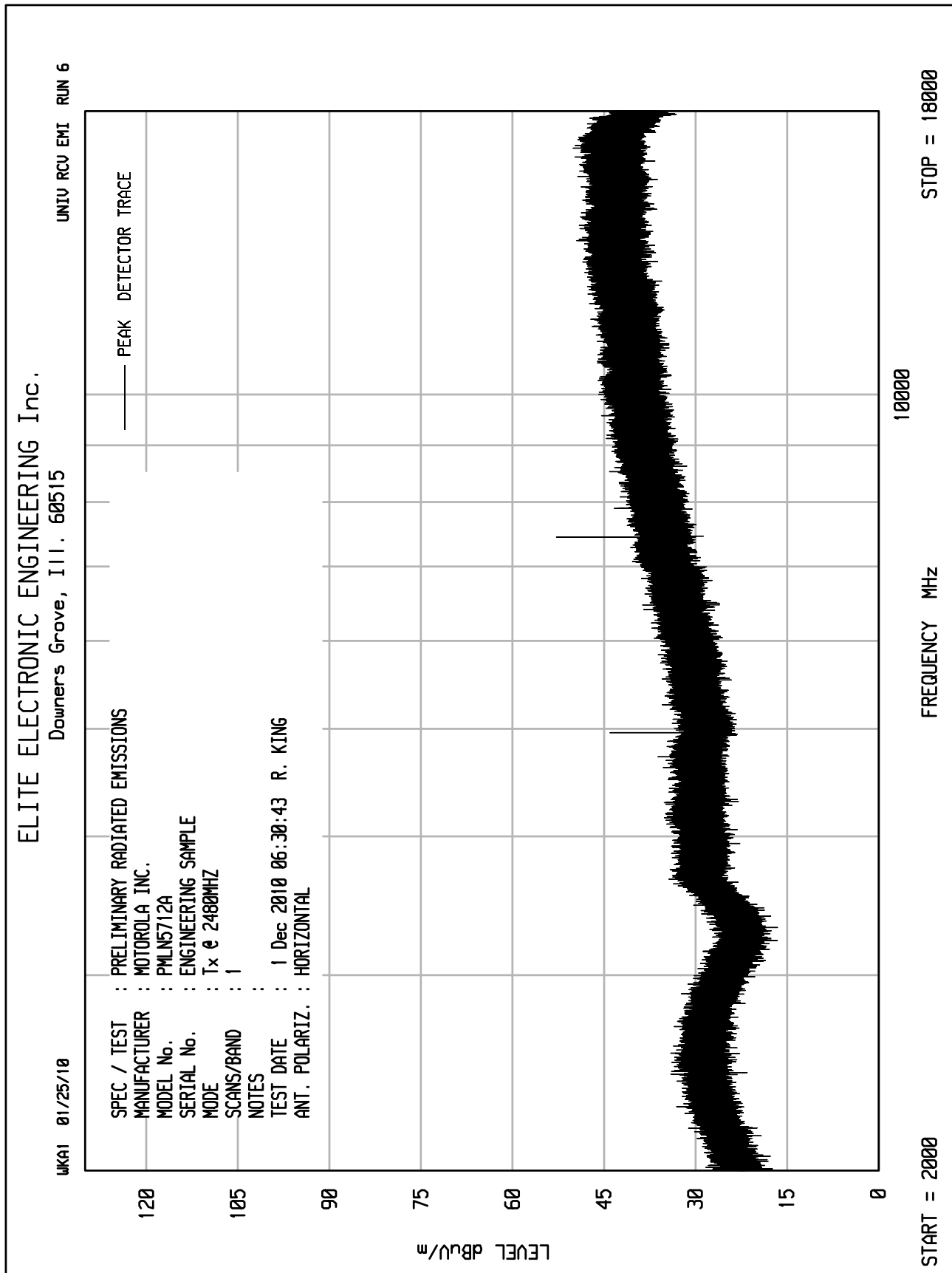
UNITU RCU EMI RUN 3

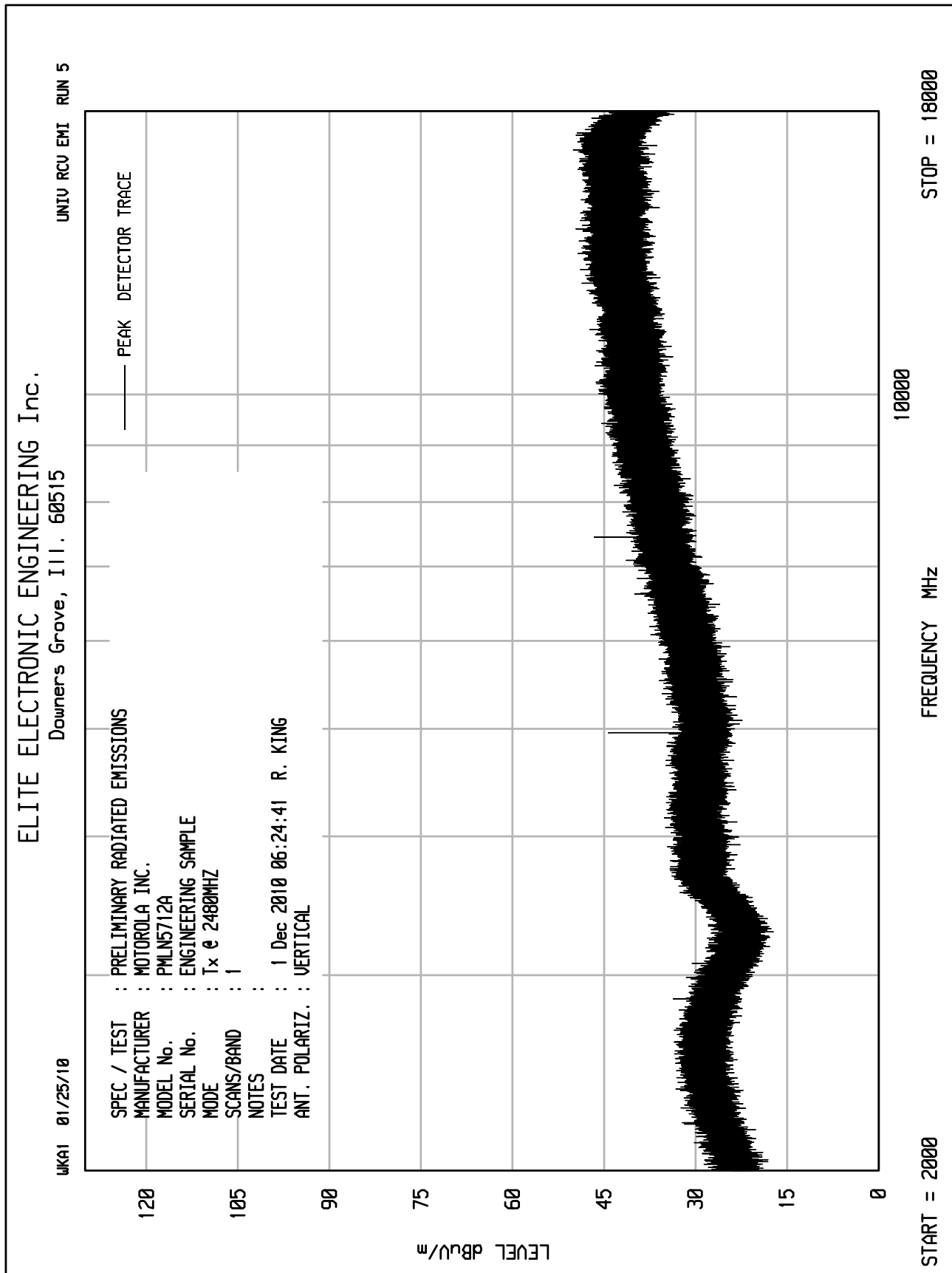
WKA1 07/14/10













ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 7

WKA1 07/14/10

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MOTOROLA INC.
MODEL No. : PMLN5712A
SERIAL No. : ENGINEERING SAMPLE
MODE : Tx 2480MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 1 Dec 2010 06:53:21 R. KING
ANT. POLARIZ. : HORIZONTAL

— PEAK DETECTOR TRACE

120

105

90

LEVEL dBuV/m

75

60

45

30

15

0

START = 18000

FREQUENCY MHz

STOP = 25000



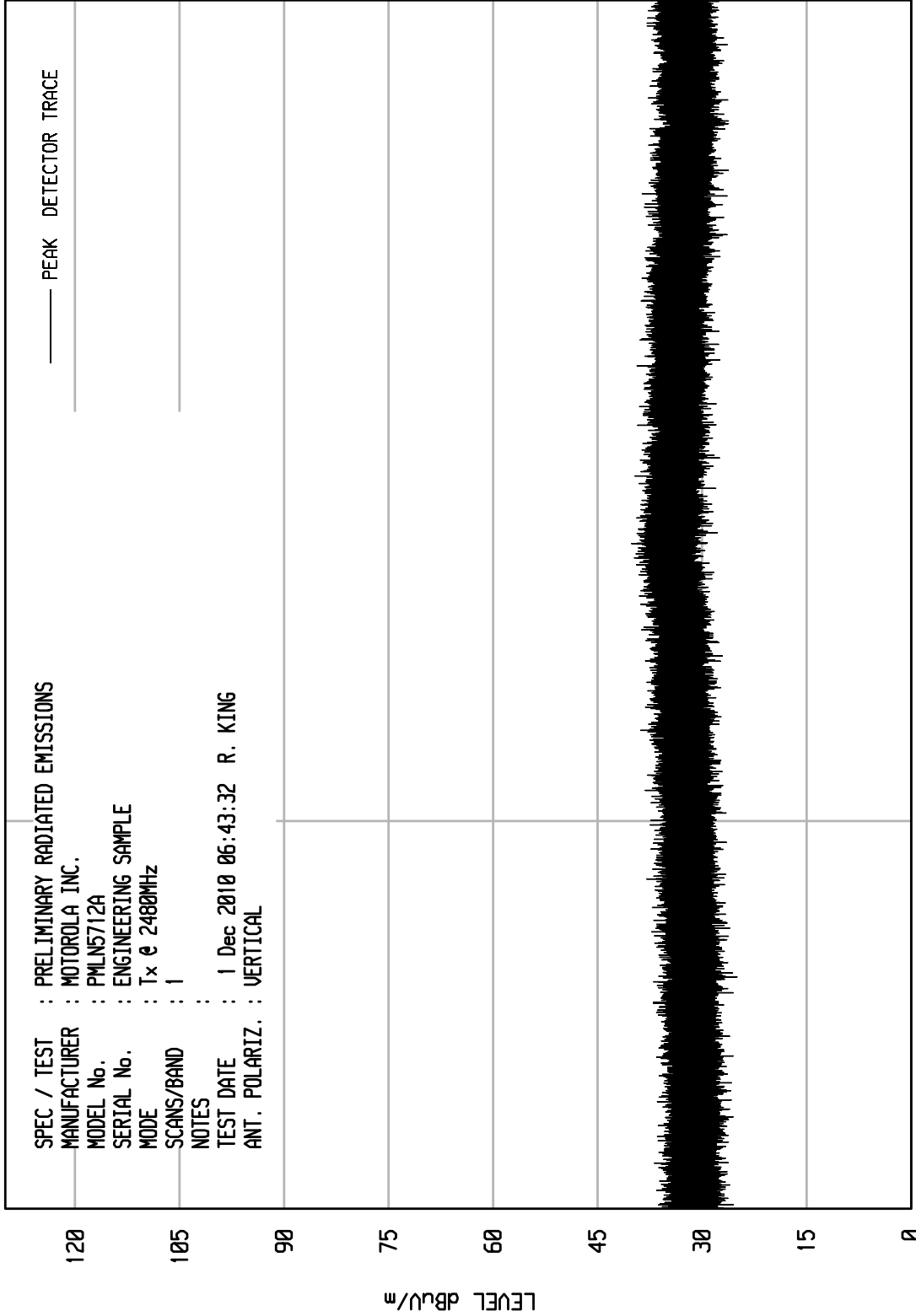
ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 2

WKA1 07/14/10

SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : MOTOROLA INC.
MODEL No. : PMLN5712A
SERIAL No. : ENGINEERING SAMPLE
MODE : Tx @ 2400MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 1 Dec 2010 06:43:32 R. KING
ANT. POLARIZ. : VERTICAL

— PEAK DETECTOR TRACE



START = 18000

FREQUENCY MHz

STOP = 25000



MANUFACTURER : Motorola, Inc.
 EUT : R1.2 Wireless Dongle
 MODEL NUMBER : NTN2574A
 TEST MODE : Transmit at 2402MHz
 TEST DATE : November 30, 2010 through December 3, 2010
 TEST PARAMETERS : Industry Canada RSS-210 Annex 8 Spurious Radiated Emissions
 : FCC CFR Title 47 Part 15, Subpart C, Paragraph 15.247 Spurious Radiated Emissions
 NOTES : Peak Detector

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBUV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2402.000	H	63.8		3.8	29.2	0.0	96.8	69005.8		
2402.000	V	69.0		3.8	29.2	0.0	102.0	126004.4		
4804.000	H	62.0		5.7	34.3	-38.3	63.7	1538.6	5000.0	-10.2
4804.000	V	62.4		5.7	34.3	-38.3	64.2	1614.8	5000.0	-9.8
7206.000	H	58.6		7.6	37.5	-38.4	65.4	1868.1	12600.4	-16.6
7206.000	V	58.9		7.6	37.5	-38.4	65.7	1922.6	12600.4	-16.3
9608.000	H	50.4		8.6	38.7	-38.5	59.1	900.3	12600.4	-22.9
9608.000	V	46.5		8.6	38.7	-38.5	55.2	576.0	12600.4	-26.8
12010.000	H	46.7	*	9.8	41.4	-38.4	59.5	945.3	5000.0	-14.5
12010.000	V	44.5	*	9.8	41.4	-38.4	57.2	727.0	5000.0	-16.7
14412.000	H	35.2	*	10.9	43.7	-38.9	50.9	349.6	12600.4	-31.1
14412.000	V	36.3	*	10.9	43.7	-38.9	52.0	398.1	12600.4	-30.0
16814.000	H	36.0	*	11.6	44.6	-38.4	53.8	489.6	12600.4	-28.2
16814.000	V	35.7	*	11.6	44.6	-38.4	53.6	476.3	12600.4	-28.5
19216.000	H	39.4	*	2.2	40.4	-27.5	54.4	527.6	5000.0	-19.5
19216.000	V	39.4	*	2.2	40.4	-27.5	54.4	527.6	5000.0	-19.5
21618.000	H	34.6	*	2.2	40.6	-26.2	51.2	361.5	12600.4	-30.8
21618.000	V	34.6	*	2.2	40.6	-26.2	51.2	361.5	12600.4	-30.8
24020.000	H	32.7	*	2.2	40.6	-27.4	48.1	254.3	12600.4	-33.9
24020.000	V	32.7	*	2.2	40.6	-27.4	48.1	254.3	12600.4	-33.9

Gray rows indicate emissions in a restricted band

H – Horizontal V – Vertical

Total (dBUV/m) = Meter Reading (dBUV) + Cbl Fac (dB) + Ant Fac (dB) + Pre Amp Gain (dB)

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Motorola
EUT : R1.2 Wireless Dongle
MODEL NUMBER : NTN2574A
SERIAL NUMBER : none assigned
TEST MODE : Transmit at 2402MHz
TEST DATE : November 30, 2010 through December 3, 2010
TEST PARAMETERS : Industry Canada RSS-210 Annex 8 Spurious Radiated Emissions
: FCC CFR Title 47 Part 15, Subpart C, Paragraph 15.247 Spurious Radiated Emissions
NOTES : Average Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4804.0	H	60.7		5.7	34.3	-38.3	-41.6	20.9	11.1	500.0	-33.1
4804.0	V	61.3		5.7	34.3	-38.3	-41.6	21.5	11.9	500.0	-32.5
12010.0	H	32.2	*	9.8	41.4	-38.4	-41.6	3.4	1.5	500.0	-50.6
12010.0	V	32.2	*	9.8	41.4	-38.4	-41.6	3.4	1.5	500.0	-50.6
19216.0	H	26.2	*	2.2	40.4	-27.5	-41.6	-0.3	1.0	500.0	-54.3
19216.0	V	26.2	*	2.2	40.4	-27.5	-41.6	-0.3	1.0	500.0	-54.3

H – Horizontal V – Vertical

Total (dBuV/m) = Meter Reading (dBuV) + Cbl Fac (dB) + Ant Fac (dB) + Pre Amp Gain (dB) + Duty Cycle(dB)

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Motorola, Inc.
 EUT : R1.2 Wireless Dongle
 MODEL NUMBER : NTN2574A
 TEST MODE : Transmit at 2441MHz
 TEST DATE : November 30, 2010 through December 3, 2010
 TEST PARAMETERS : Industry Canada RSS-210 Annex 8 Spurious Radiated Emissions
 : FCC CFR Title 47 Part 15, Subpart C, Paragraph 15.247 Spurious Radiated Emissions
 NOTES : Peak Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2441.000	H	64.9		3.8	29.2	0.0	97.9	78899.4		
2441.000	V	69.5		3.8	29.2	0.0	102.6	135074.6		
4882.000	H	51.4		5.8	34.5	-38.3	53.4	468.8	5000.0	-20.6
4882.000	V	54.3		5.8	34.5	-38.3	56.3	651.6	5000.0	-17.7
7323.000	H	58.4		7.7	37.8	-38.4	65.5	1874.0	5000.0	-8.5
7323.000	V	57.6		7.7	37.8	-38.4	64.7	1713.1	5000.0	-9.3
9764.000	H	43.9		8.6	38.8	-38.6	52.7	432.0	13507.5	-29.9
9764.000	V	38.3		8.6	38.8	-38.6	47.1	227.5	13507.5	-35.5
12205.000	H	46.0	*	9.9	41.4	-38.4	58.8	875.8	5000.0	-15.1
12205.000	V	44.2	*	9.9	41.4	-38.4	57.0	708.6	5000.0	-17.0
14646.000	H	36.0	*	11.0	44.1	-38.9	52.2	408.0	13507.5	-30.4
14646.000	V	35.7	*	11.0	44.1	-38.9	51.9	391.4	13507.5	-30.8
17087.000	H	35.1	*	11.7	44.5	-38.4	52.9	443.0	13507.5	-29.7
17087.000	V	35.6	*	11.7	44.5	-38.4	53.4	466.5	13507.5	-29.2
19528.000	H	29.5	*	2.2	40.4	-27.2	44.9	175.9	5000.0	-29.1
19528.000	V	29.5	*	2.2	40.4	-27.2	44.9	175.9	5000.0	-29.1
21969.000	H	25.6	*	2.2	40.6	-26.9	41.4	117.4	13507.5	-41.2
21969.000	V	25.6	*	2.2	40.6	-26.9	41.4	117.4	13507.5	-41.2
24410.000	H	23.2	*	2.2	40.6	-27.5	38.5	84.6	13507.5	-44.1
24410.000	V	23.2	*	2.2	40.6	-27.5	38.5	84.6	13507.5	-44.1

Gray rows indicate emissions in a restricted band

H – Horizontal V – Vertical

Total (dBuV/m) = Meter Reading (dBuV) + Cbl Fac (dB) + Ant Fac (dB) + Pre Amp Gain (dB)

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Motorola
EUT : R1.2 Wireless Dongle
MODEL NUMBER : NTN2574A
SERIAL NUMBER : none assigned
TEST MODE : Transmit at 2441MHz
TEST DATE : November 30, 2010 through December 3, 2010
TEST PARAMETERS : Industry Canada RSS-210 Annex 8 Spurious Radiated Emissions
: FCC CFR Title 47 Part 15, Subpart C, Paragraph 15.247 Spurious Radiated Emissions
NOTES : Average Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4885.0	H	48.1		5.8	34.9	-38.3	-41.6	8.8	2.8	500.0	-45.1
4885.0	V	51.5		5.8	34.9	-38.3	-41.6	12.3	4.1	500.0	-41.7
7327.5	H	56.7		7.7	38.2	-38.4	-41.6	22.5	13.4	500.0	-31.4
7327.5	V	56.0		7.7	38.2	-38.4	-41.6	21.8	12.3	500.0	-32.2
12212.5	H	32.5	*	9.9	41.5	-38.4	-41.6	3.8	1.6	500.0	-50.2
12212.5	V	32.5	*	9.9	41.5	-38.4	-41.6	3.8	1.6	500.0	-50.1
19540.0	H	26.6	*	2.2	40.4	-27.2	-41.6	0.4	1.1	500.0	-53.5
19540.0	V	26.6	*	2.2	40.4	-27.2	-41.6	0.4	1.1	500.0	-53.5

H – Horizontal V – Vertical

Total (dBuV/m) = Meter Reading (dBuV) + Cbl Fac (dB) + Ant Fac (dB) + Pre Amp Gain (dB) + Duty Cycle(dB)

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Motorola, Inc.
 EUT : R1.2 Wireless Dongle
 MODEL NUMBER : NTN2574A
 TEST MODE : Transmit at 2480MHz
 TEST DATE : November 30, 2010 through December 3, 2010
 TEST PARAMETERS : Industry Canada RSS-210 Annex 8 Spurious Radiated Emissions
 : FCC CFR Title 47 Part 15, Subpart C, Paragraph 15.247 Spurious Radiated Emissions
 NOTES : Peak Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2480.0	H	62.8	3.8	29.3	0.0	0.0	96.0	62904.2		
2480.0	V	68.7	3.8	29.3	0.0	0.0	101.8	123361.5		
4960.0	H	57.9	5.8	34.7	-38.3	0.0	60.1	1016.5	5000.0	-13.8
4960.0	V	58.8	5.8	34.7	-38.3	0.0	61.0	1127.5	5000.0	-12.9
7440.0	H	54.2	7.7	38.0	-38.5	0.0	61.5	1187.1	5000.0	-12.5
7440.0	V	54.5	7.7	38.0	-38.5	0.0	61.7	1223.1	5000.0	-12.2
9920.0	H	36.3	8.5	39.0	-38.6	0.0	45.3	183.2	12336.2	-36.6
9920.0	V	38.6	8.5	39.0	-38.6	0.0	47.6	239.1	12336.2	-34.3
12400.0	H	46.6	9.9	41.3	-38.4	0.0	59.5	939.2	5000.0	-14.5
12400.0	V	46.1	9.9	41.3	-38.4	0.0	58.9	883.6	5000.0	-15.1
14880.0	H	36.6	11.2	44.5	-39.0	0.0	53.3	461.0	12336.2	-28.5
14880.0	V	34.7	11.2	44.5	-39.0	0.0	51.4	372.2	12336.2	-30.4
17360.0	H	36.1	11.9	44.4	-38.4	0.0	54.0	500.3	12336.2	-27.8
17360.0	V	35.8	11.9	44.4	-38.4	0.0	53.7	482.2	12336.2	-28.2
19840.0	H	29.6	2.2	40.4	-26.9	0.0	45.3	185.1	5000.0	-28.6
19840.0	V	29.6	2.2	40.4	-26.9	0.0	45.3	185.1	5000.0	-28.6
22320.0	H	32.1	2.2	40.6	-27.1	0.0	47.8	246.6	5000.0	-26.1
22320.0	V	32.1	2.2	40.6	-27.1	0.0	47.8	246.6	5000.0	-26.1
24800.0	H	23.2	2.2	40.7	-27.2	0.0	38.8	87.5	12336.2	-43.0
24800.0	V	23.2	2.2	40.7	-27.2	0.0	38.8	87.5	12336.2	-43.0

Gray rows indicate emissions in a restricted band

H – Horizontal V – Vertical

Total (dBuV/m) = Meter Reading (dBuV) + Cbl Fac (dB) + Ant Fac (dB) + Pre Amp Gain (dB)

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Motorola
EUT : R1.2 Wireless Dongle
MODEL NUMBER : NTN2574A
SERIAL NUMBER : none assigned
TEST MODE : Transmit at 2480MHz
TEST DATE : November 30, 2010 through December 3, 2010
TEST PARAMETERS : Industry Canada RSS-210 Annex 8 Spurious Radiated Emissions
: FCC CFR Title 47 Part 15, Subpart C, Paragraph 15.247 Spurious Radiated Emissions
NOTES : Average Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4960.0	H	55.8		5.8	34.7	-38.3	-41.6	16.4	6.6	500.0	-37.6
4960.0	V	57.3		5.8	34.7	-38.3	-41.6	17.9	7.9	500.0	-36.1
7440.0	H	50.8		7.7	38.0	-38.5	-41.6	16.5	6.7	500.0	-37.5
7440.0	V	52.1		7.7	38.0	-38.5	-41.6	17.7	7.7	500.0	-36.2
12400.0	H	32.6	*	9.9	41.3	-38.4	-41.6	3.8	1.6	500.0	-50.1
12400.0	V	32.5	*	9.9	41.3	-38.4	-41.6	3.7	1.5	500.0	-50.2
19840.0	H	26.4	*	2.2	40.4	-26.9	-41.6	0.5	1.1	500.0	-53.5
19840.0	V	26.5	*	2.2	40.4	-26.9	-41.6	0.6	1.1	500.0	-53.4
22320.0	H	29.8	*	2.2	40.6	-27.1	-41.6	3.9	1.6	500.0	-50.0
22320.0	V	29.8	*	2.2	40.6	-27.1	-41.6	3.9	1.6	500.0	-50.0

H – Horizontal V – Vertical

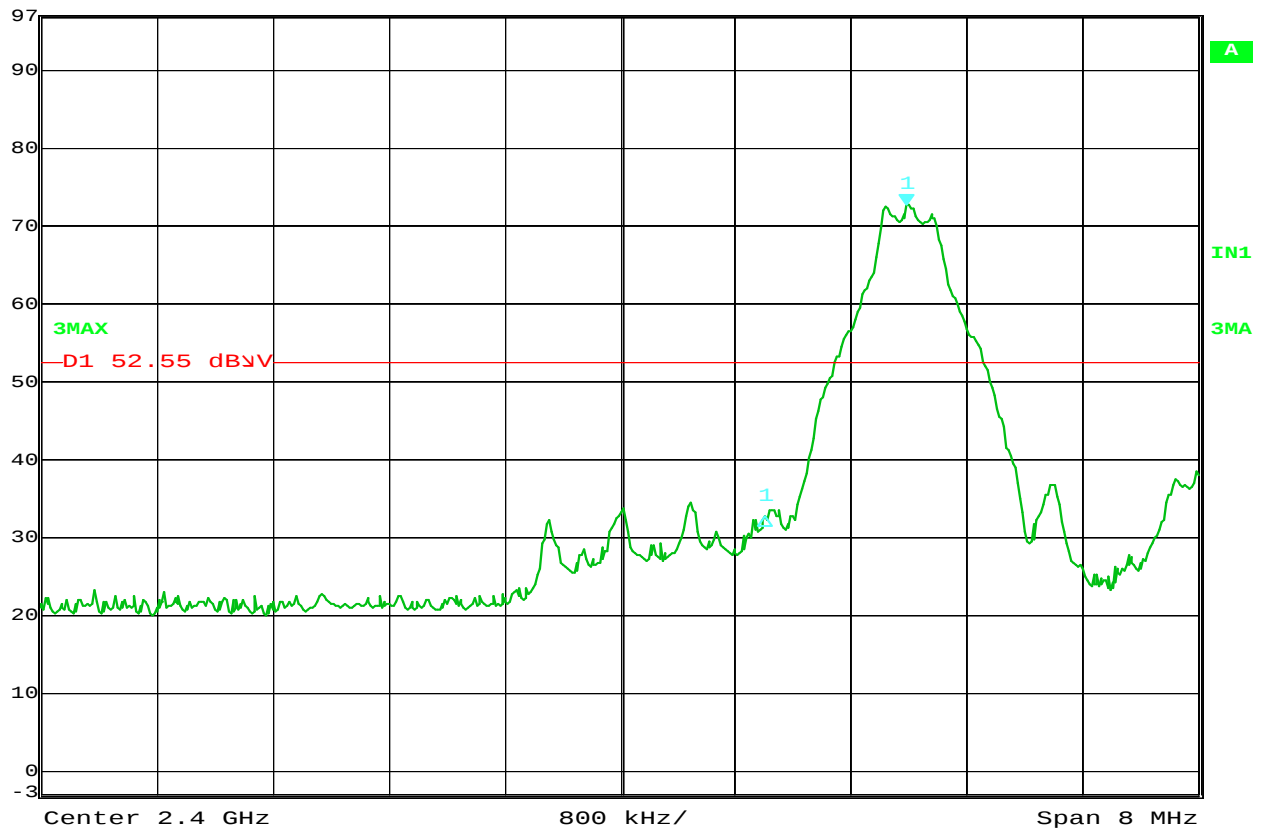
Total (dBuV/m) = Meter Reading (dBuV) + Cbl Fac (dB) + Ant Fac (dB) + Pre Amp Gain (dB) + Duty Cycle(dB)

Checked BY Richard E. King :

Richard E. King



Ref Lvl 97 dBμV
Marker 1 [T3] 72.55 dBμV
2.40197996 GHz
RBW 100 kHz
VBW 1 MHz
SWT 5 ms
RF Att 0 dB
Unit dBμV



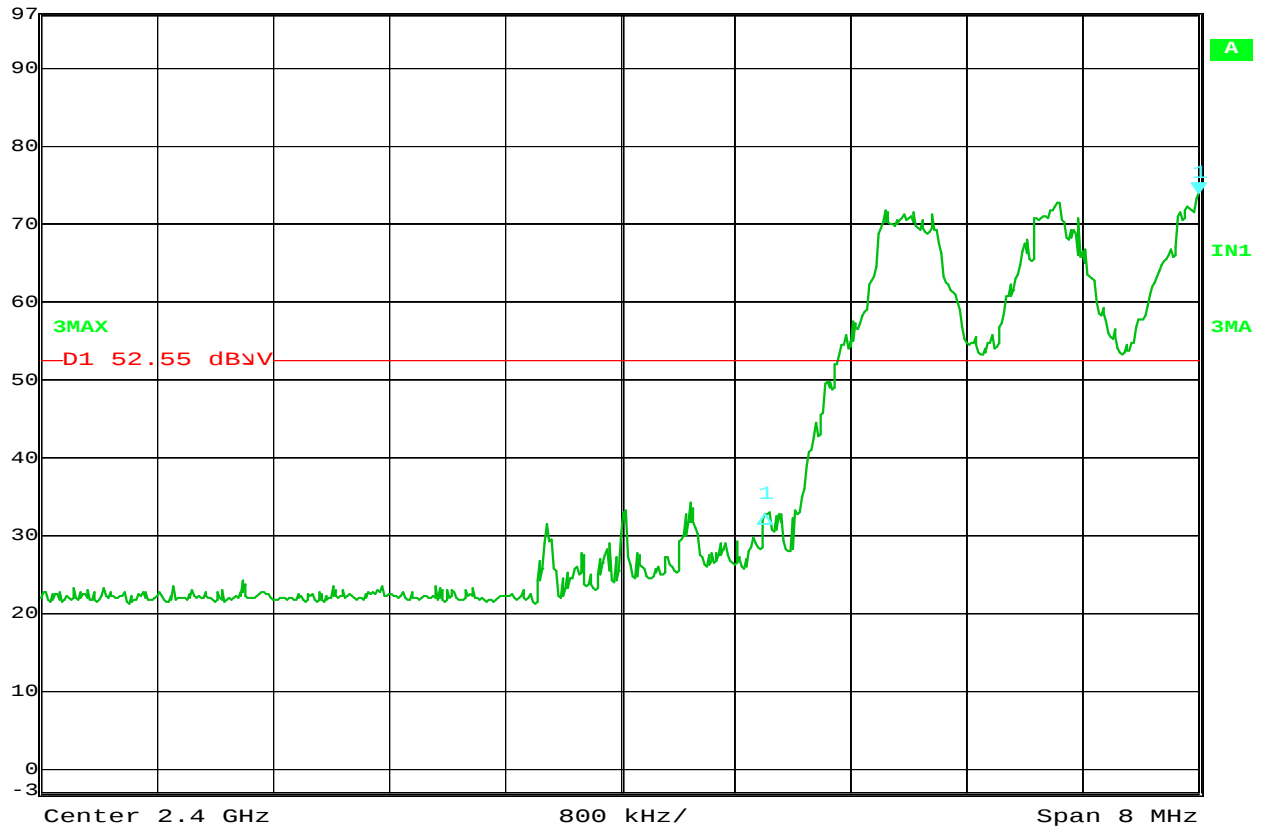
Date: 6.DEC.2010 06:26:02

Bandedge Compliance

MANUFACTURER : Motorola inc.
MODEL NUMBER : PMLN5712A
TEST SPEC. : 15.247 Bandedge Compliance
TEST PARAMETERS : 20dBc
TEST MODE : 2402MHz
NOTES : 20dBc at 2400MHz
:



Ref Lvl 97 dBμV
Marker 1 [T3] 73.87 dBμV
2.40400000 GHz
RBW 100 kHz
VBW 1 MHz
SWT 5 ms
RF Att 0 dB
Unit dBμV



Date: 6.DEC.2010 06:30:40

Bandedge Compliance

MANUFACTURER : Motorola inc.
MODEL NUMBER : PMLN5712A
TEST SPEC. : 15.247 Bandedge Compliance
TEST PARAMETERS : (20dBc) The band edge must be at least 20dB below the highest level measured within the band
TEST MODE : Frequency Hopping Enabled
NOTES : 20dBc at 2400MHz
:



MANUFACTURER : Motorola, Inc.
EUT : R1.2 Wireless Dongle
MODEL NUMBER : NTN2574A
SERIAL NUMBER : none assigned
TEST MODE : Transmit at 2480MHz
TEST DATE : November 30, 2010 through December 3, 2010
TEST PARAMETERS : Band Edge at 2483.5MHz
NOTES : Peak Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2483.5	H	25.3	*	3.8	29.3	0.0	58.4	834.9	5000.0	-15.5
2483.5	V	26.1	*	3.8	29.3	0.0	59.3	919.7	5000.0	-14.7

Checked BY RICHARD E. King :

Richard E. King

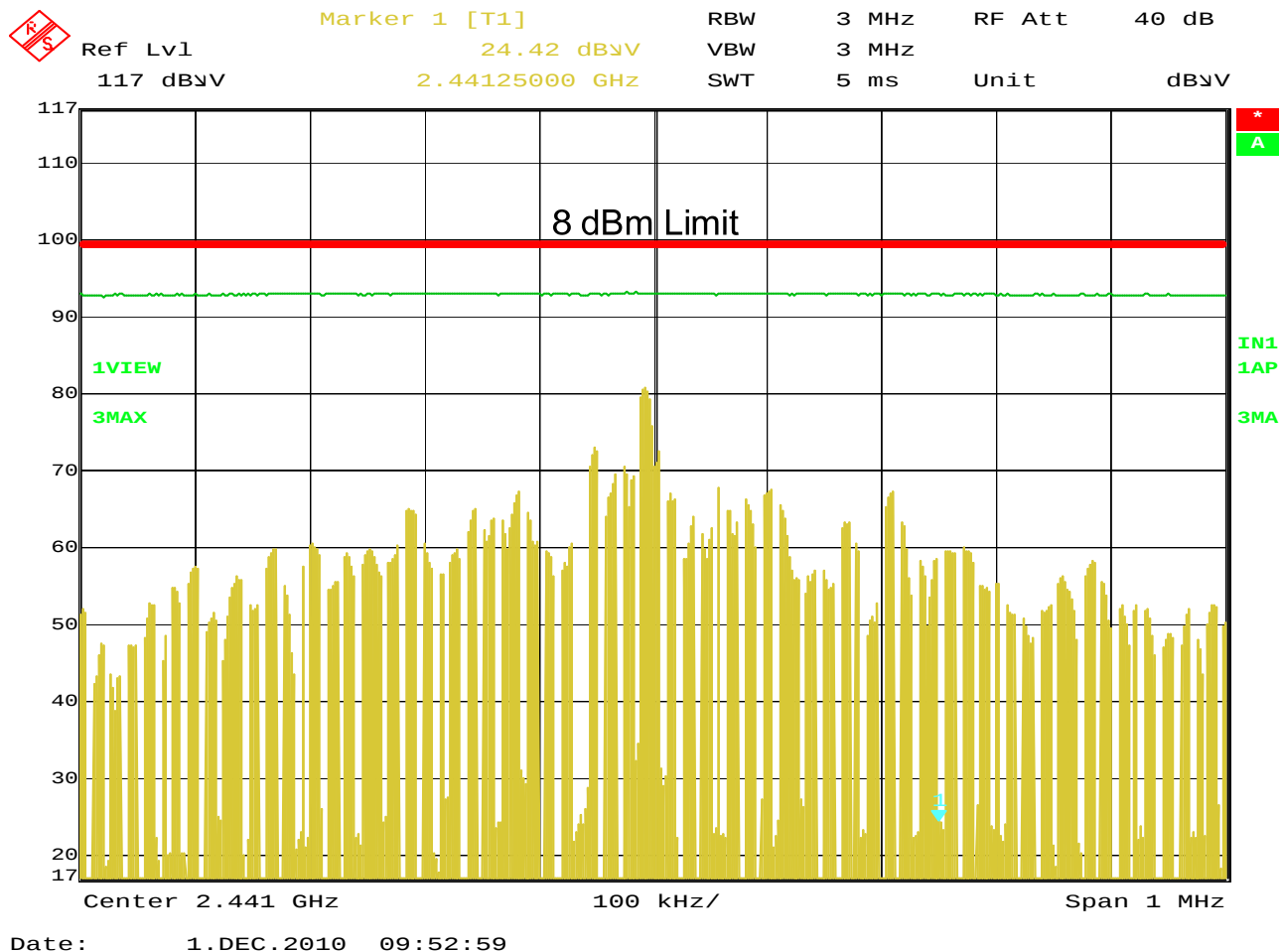


MANUFACTURER : Motorola, Inc.
EUT : R1.2 Wireless Dongle
MODEL NUMBER : NTN2574A
SERIAL NUMBER : none assigned
TEST MODE : Transmit at 2480MHz
TEST DATE : November 30, 2010 through December 3, 2010
TEST PARAMETERS : Band Edge at 2483.5MHz
NOTES : Average Detector

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2483.5	H	11.4	*	3.8	31.4	-39.7	6.9	2.2	500.0	-47.0
2483.5	V	11.7	*	3.8	31.4	-39.7	7.2	2.3	500.0	-46.7

Checked BY RICHARD E. King :

Richard E. King



Power Spectral Denisity

MANUFACTURER : Motorola, Inc.
MODEL NUMBER : PMLN5712A
TEST MODE : Inquiry Mode
TEST DATE : December 1, 2010
TEST PARAMETERS : Power Spectral Density
NOTES : Green Trace = represents the 2.9dBm matched EIRP in a 3MHz RBW and a sweep time 5 mS. The limit line at 8dBm is approximately 5.1 dB above the matched signal or Green trace. Bottom trace = power spectral density in 3kHz RBW with 340 second sweep time.
EQUIPMENT USED : RBB0, PHA0