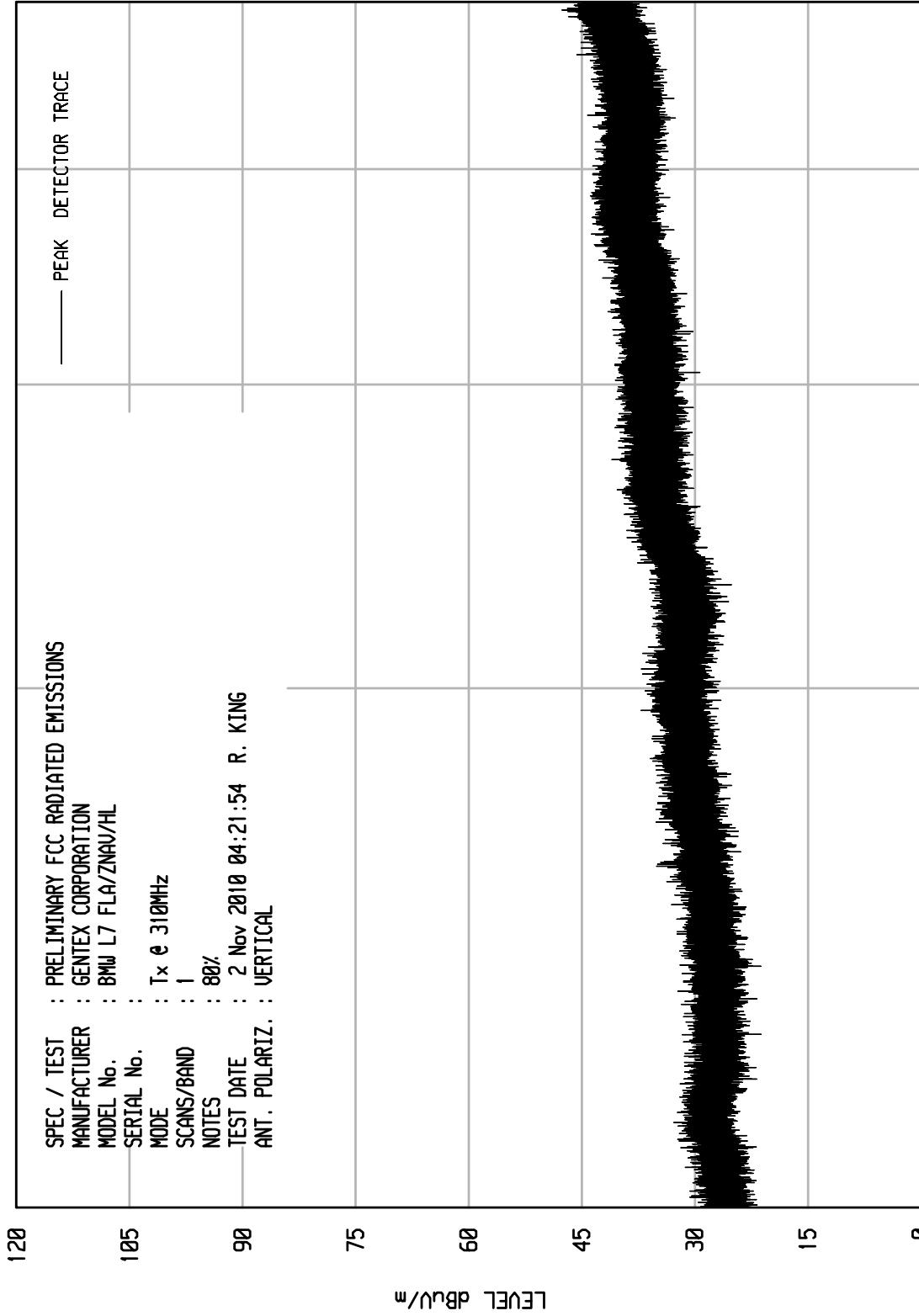


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 16

UKA1 01/25/10



SPEC / TEST : PRELIMINARY FCC RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx @ 310MHz
 SCANS/BAND : 1
 NOTES : 80%
 TEST DATE : 2 Nov 2010 04:21:54 R. KING
 ANT. POLARIZ. : VERTICAL

START = 1000

FREQUENCY MHz

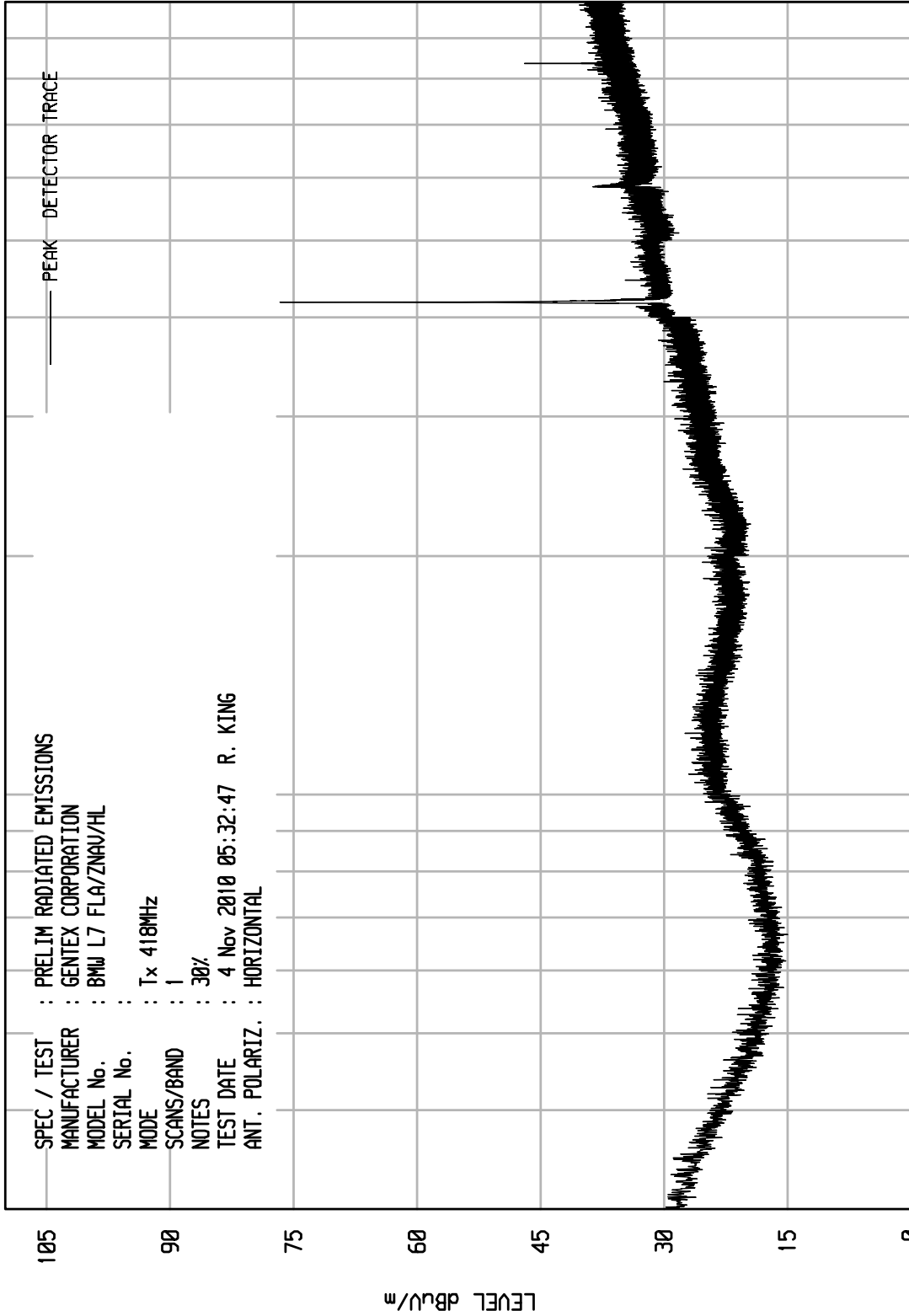
STOP = 5000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 41

UKAI 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx 418MHz
 SCANS/BAND : 1
 NOTES : 30%
 TEST DATE : 4 Nov 2010 05:32:47 R. KING
 ANT. POLARIZ. : HORIZONTAL



START = 30

100

FREQUENCY MHz

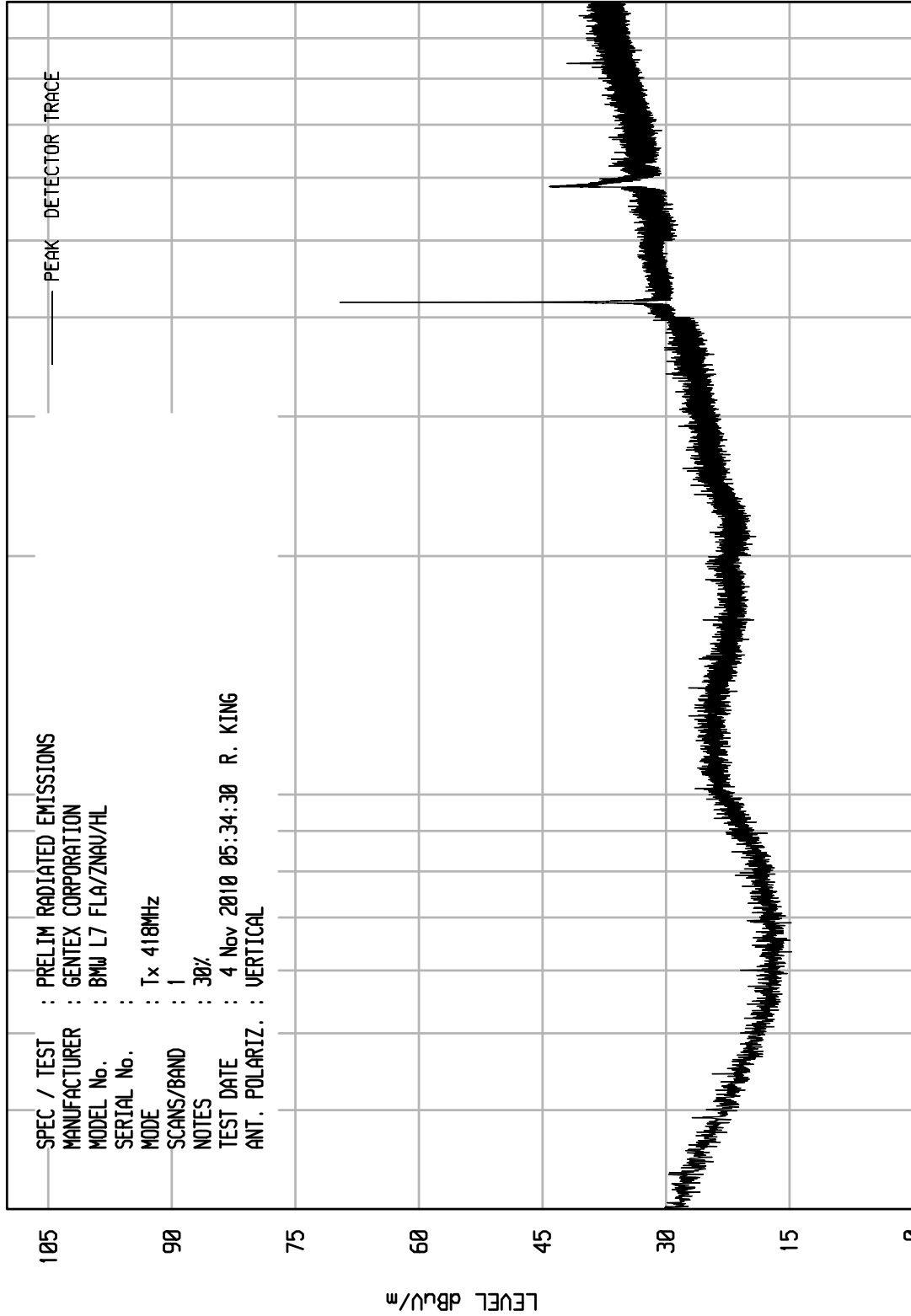
STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 42

UKAI 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx 418MHz
 SCANS/BAND : 1
 NOTES : 30%
 TEST DATE : 4 Nov 2010 05:34:30 R. KING
 ANT. POLARIZ. : VERTICAL



START = 30

100

FREQUENCY MHz

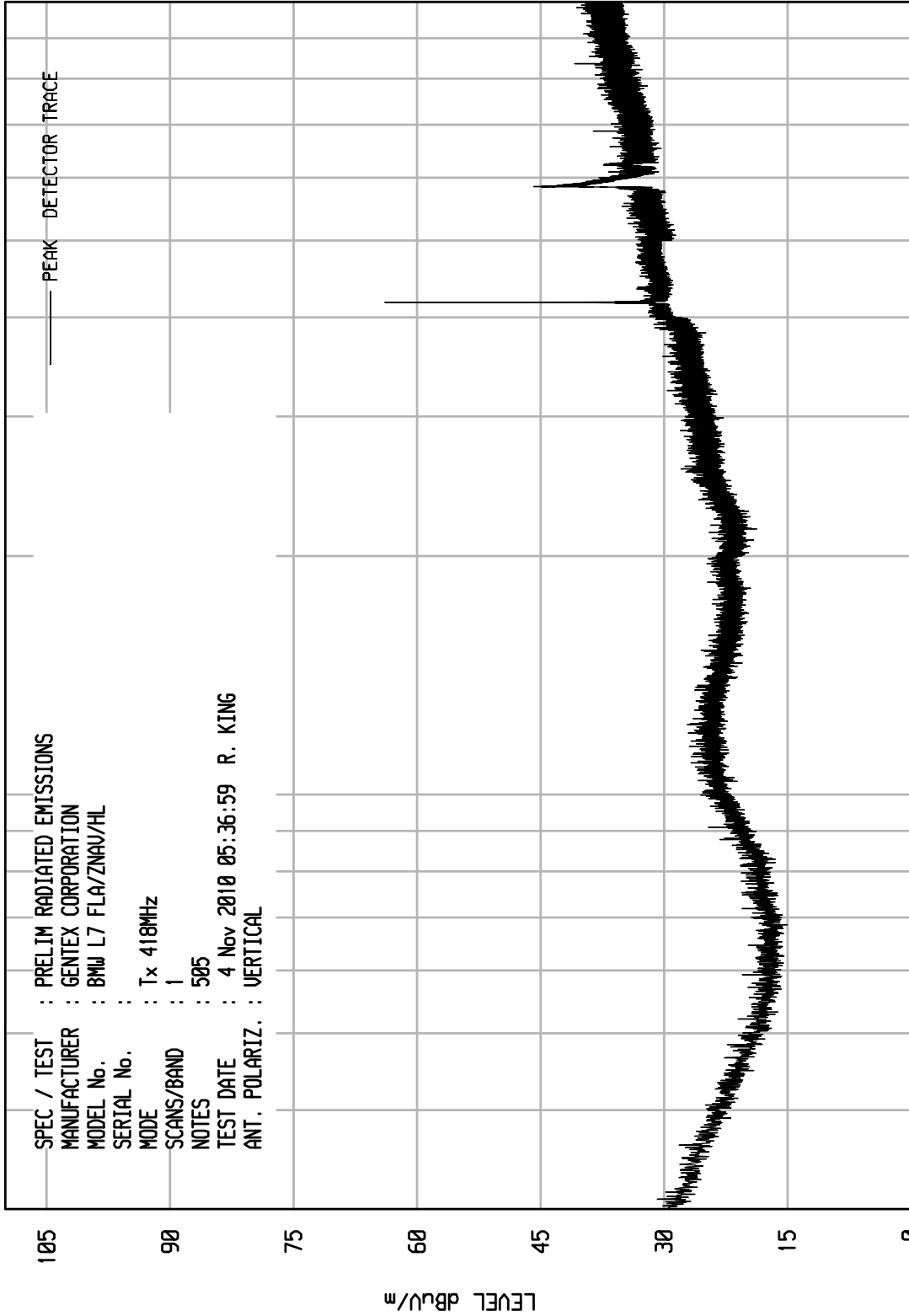
STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 43

UKA1 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx 418MHz
 SCANS/BAND : 1
 NOTES : 505
 TEST DATE : 4 Nov 2010 05:36:59 R. KING
 ANT. POLARIZ. : VERTICAL



START = 30

100

FREQUENCY MHz

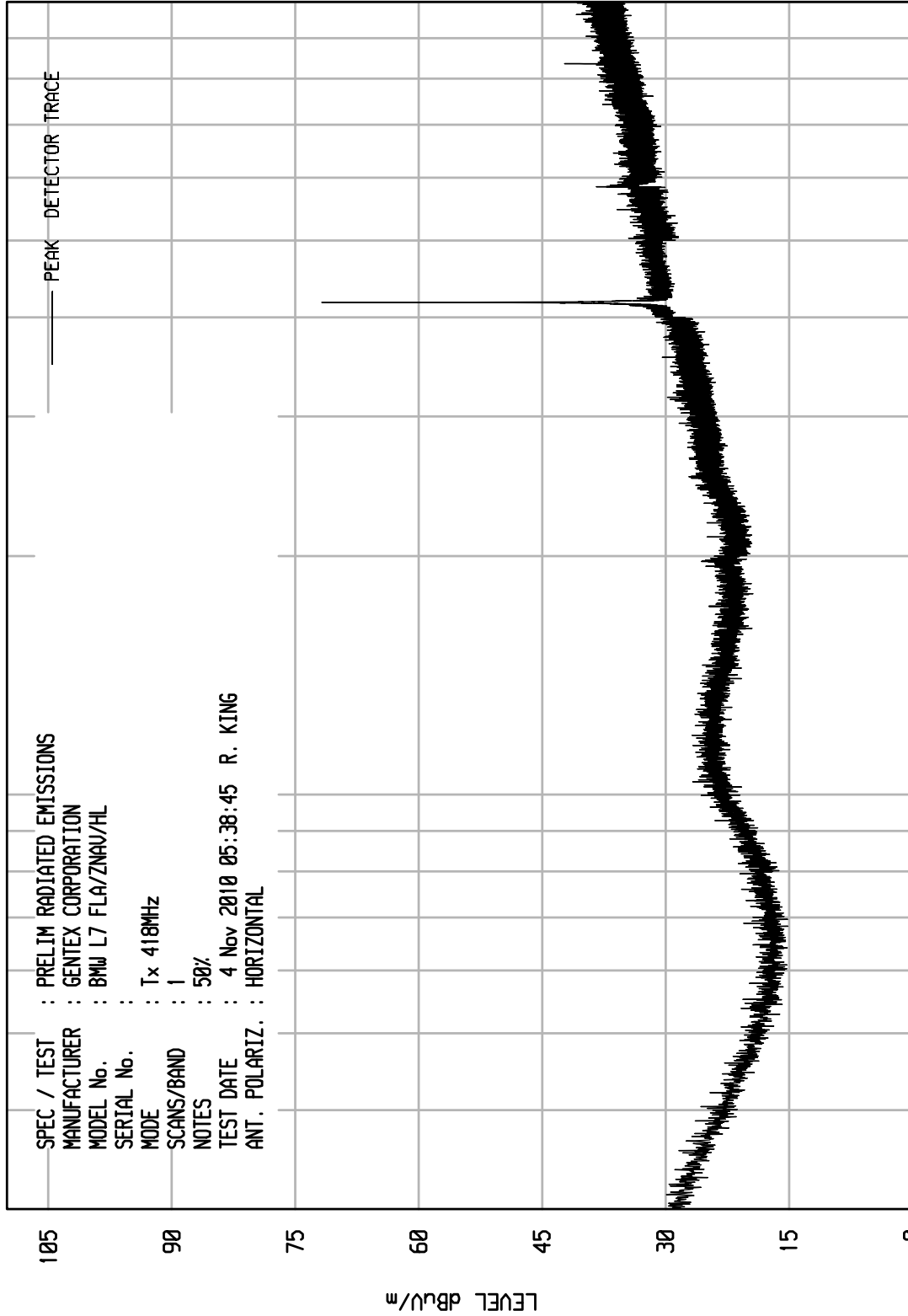
STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 44

UKAI 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx 418MHz
 SCANS/BAND : 1
 NOTES : 50%
 TEST DATE : 4 Nov 2010 05:38:45 R. KING
 ANT. POLARIZ. : HORIZONTAL



START = 30

100

FREQUENCY MHz

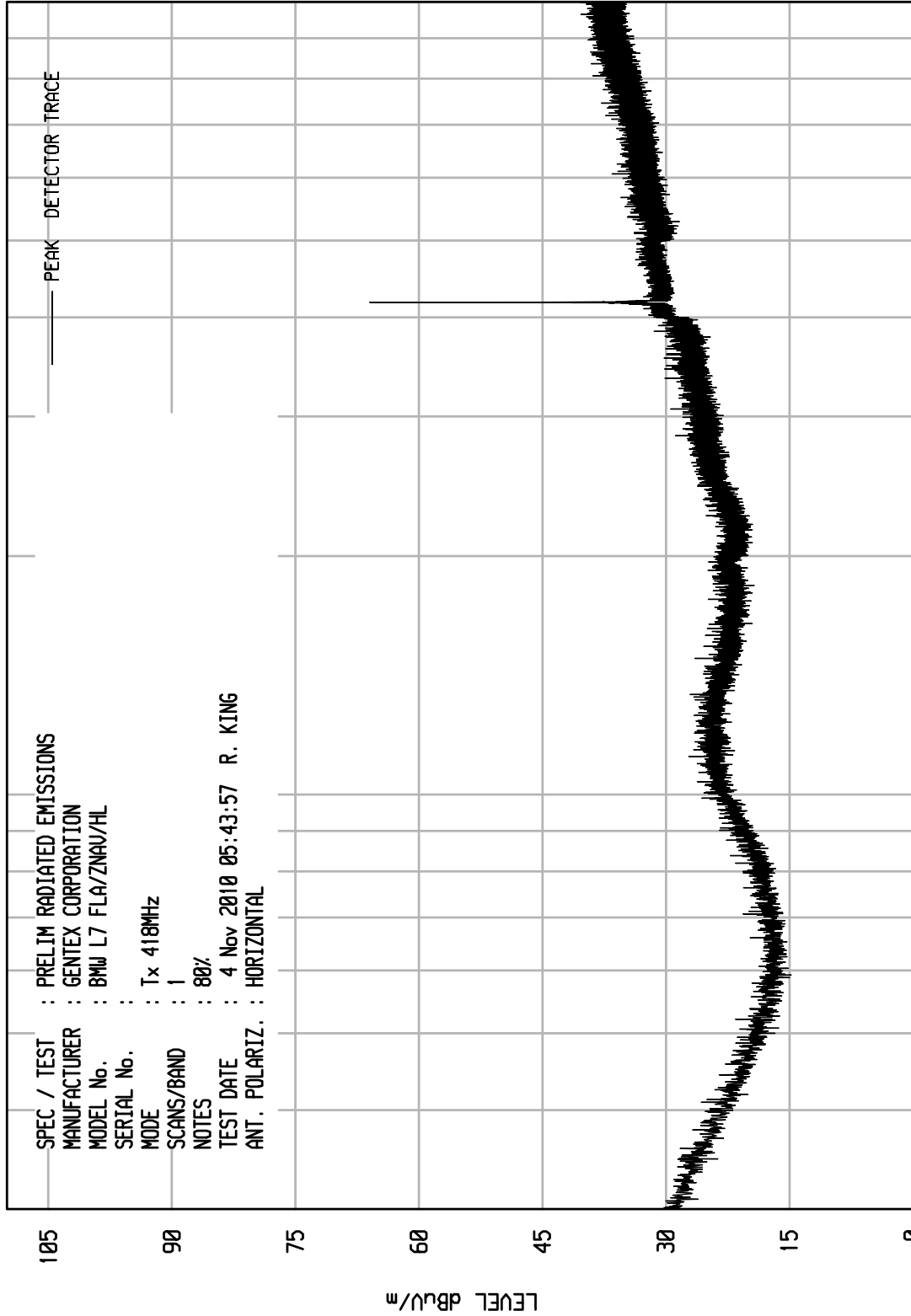
STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 46

UKA1 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx 418MHz
 SCANS/BAND : 1
 NOTES : 80%
 TEST DATE : 4 Nov 2010 05:43:57 R. KING
 ANT. POLARIZ. : HORIZONTAL



START = 30

100

FREQUENCY MHz

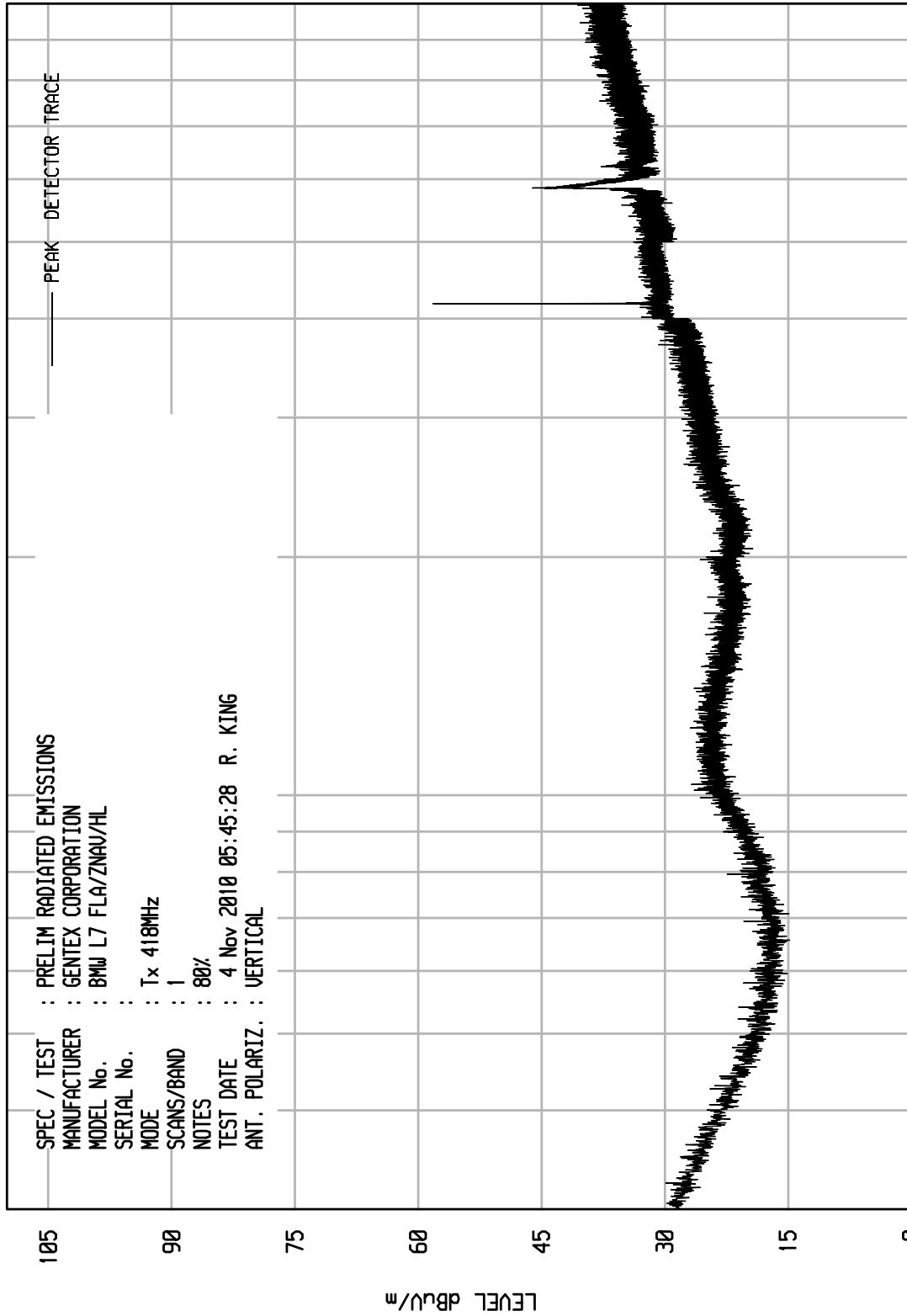
STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 47

UKAI 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
 MANUFACTURER : GENTEX CORPORATION
 MODEL No. : BMW L7 FLA/ZNAU/HL
 SERIAL No. :
 MODE : Tx 418MHz
 SCANS/BAND : 1
 NOTES : 80%
 TEST DATE : 4 Nov 2010 05:45:28 R. KING
 ANT. POLARIZ. : VERTICAL



START = 30

100

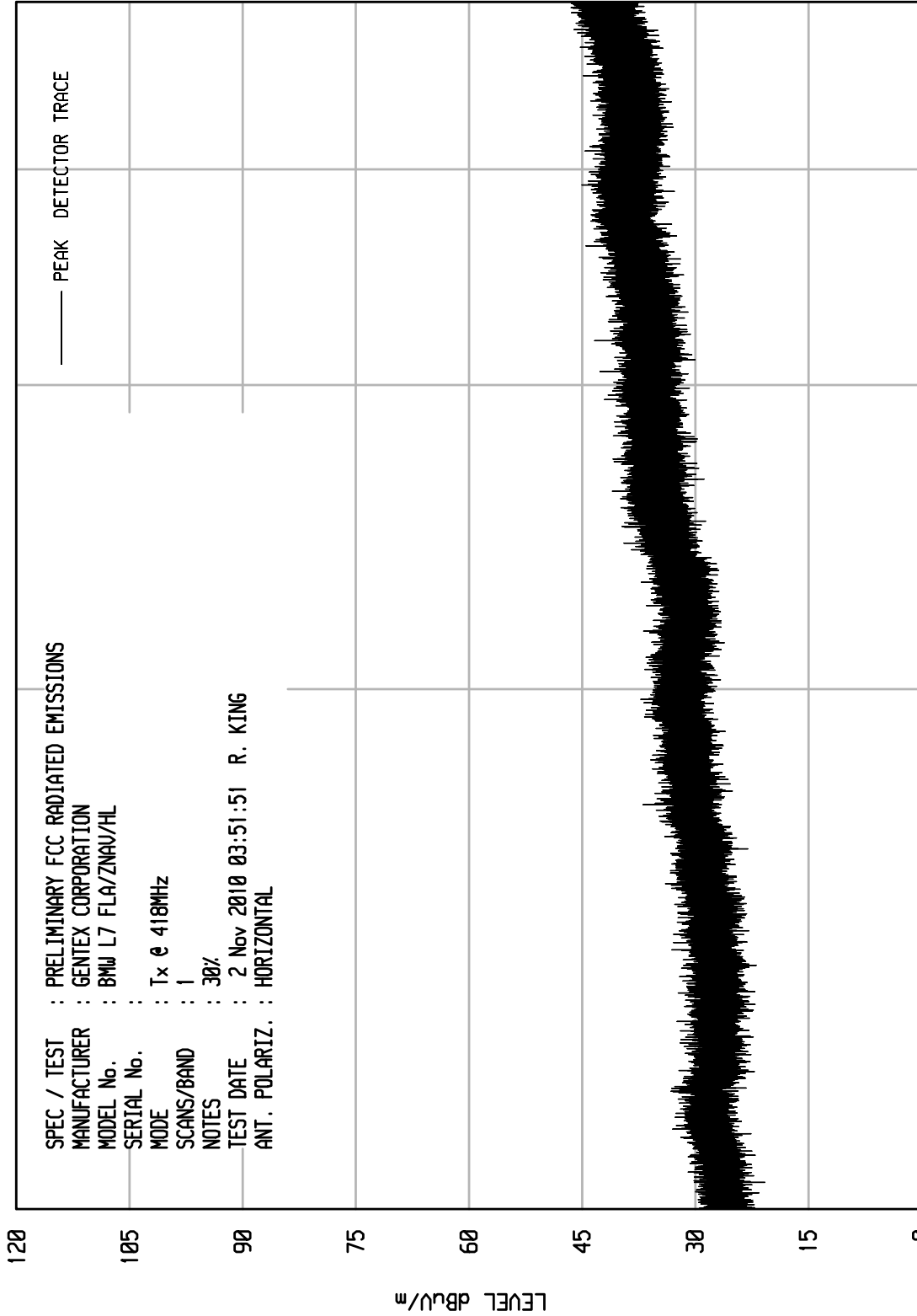
FREQUENCY MHz

STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 6

UKA1 01/25/10



START = 1000

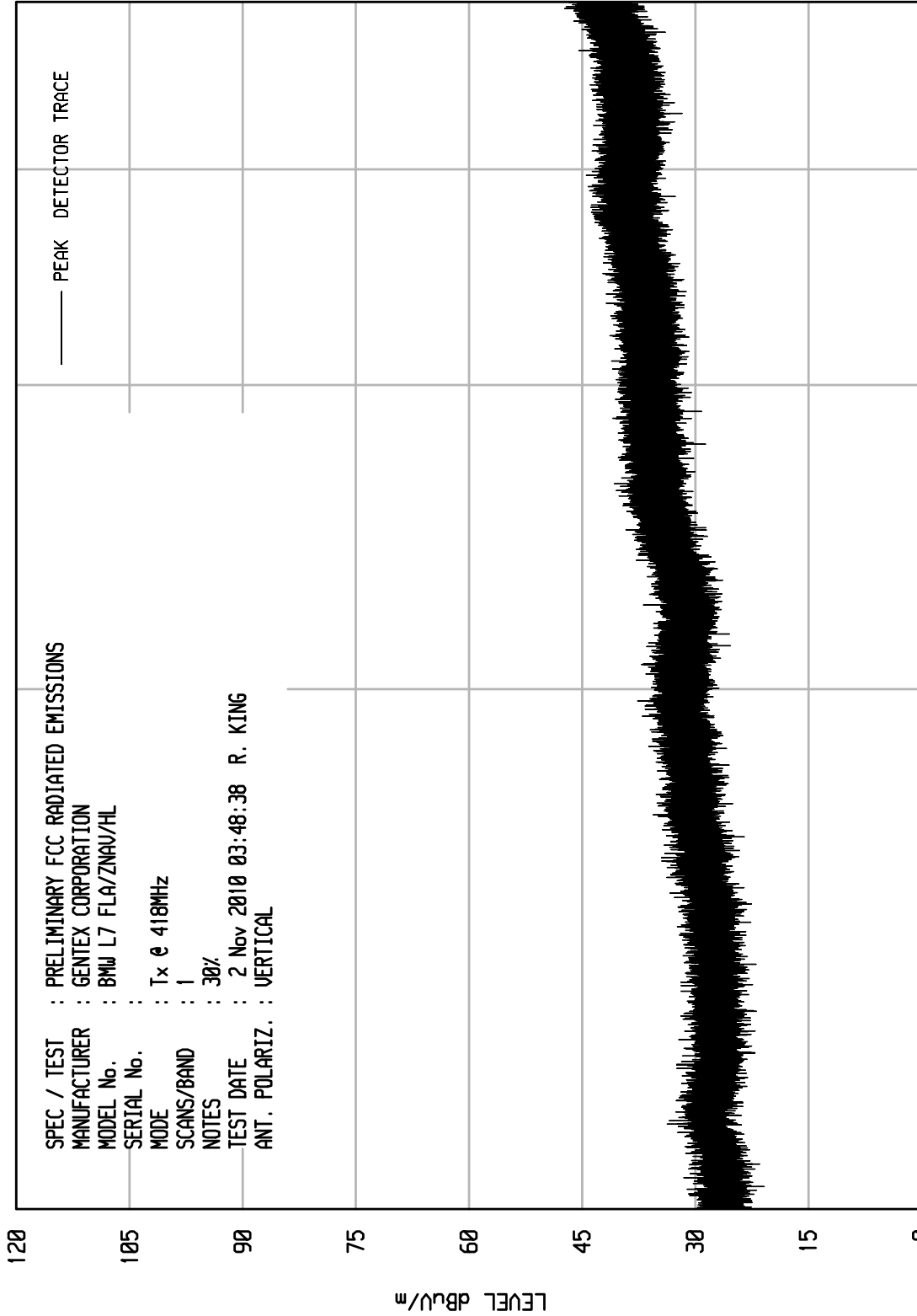
FREQUENCY MHz

STOP = 5000

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 5

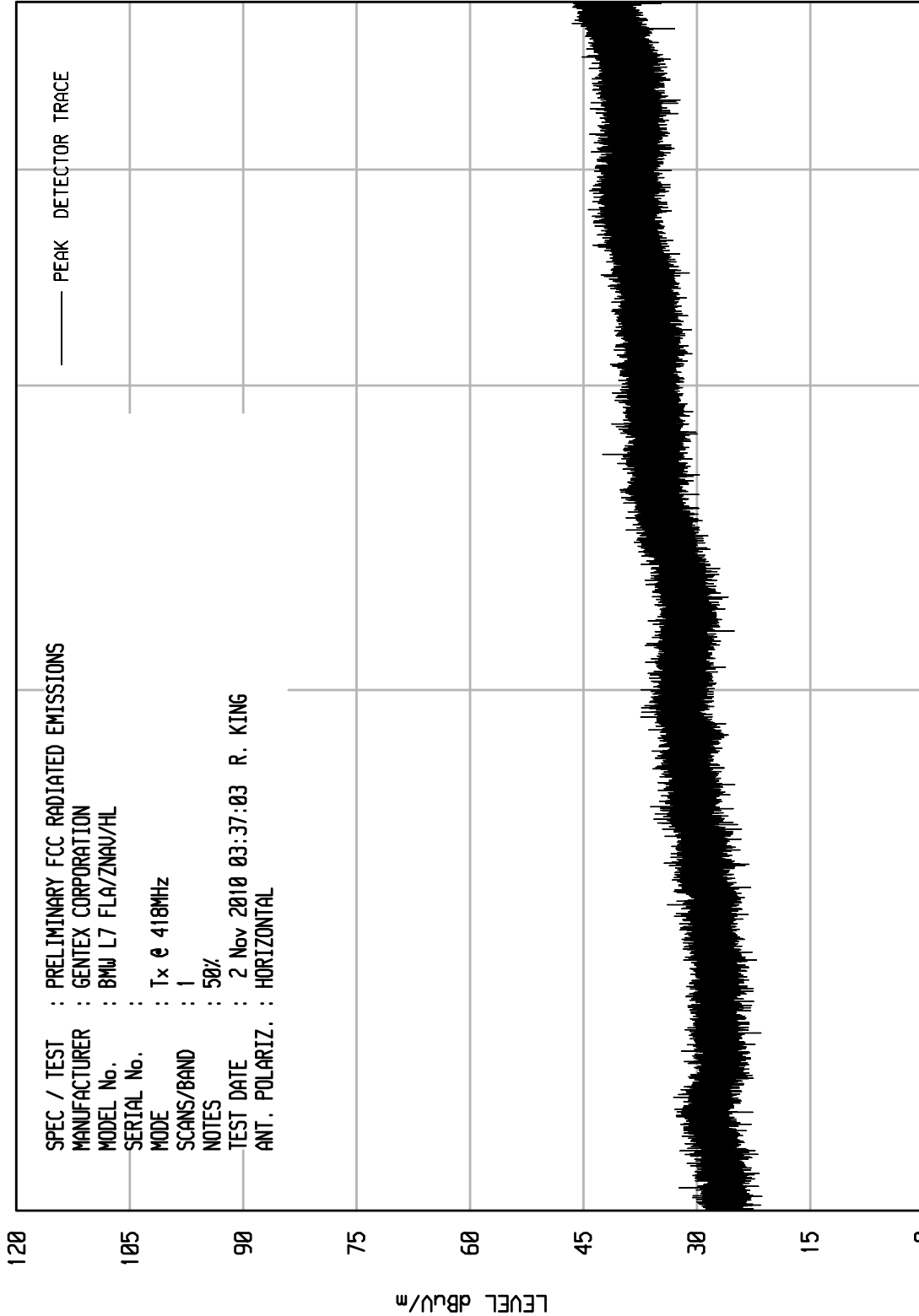
UKA1 01/25/10



ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 3

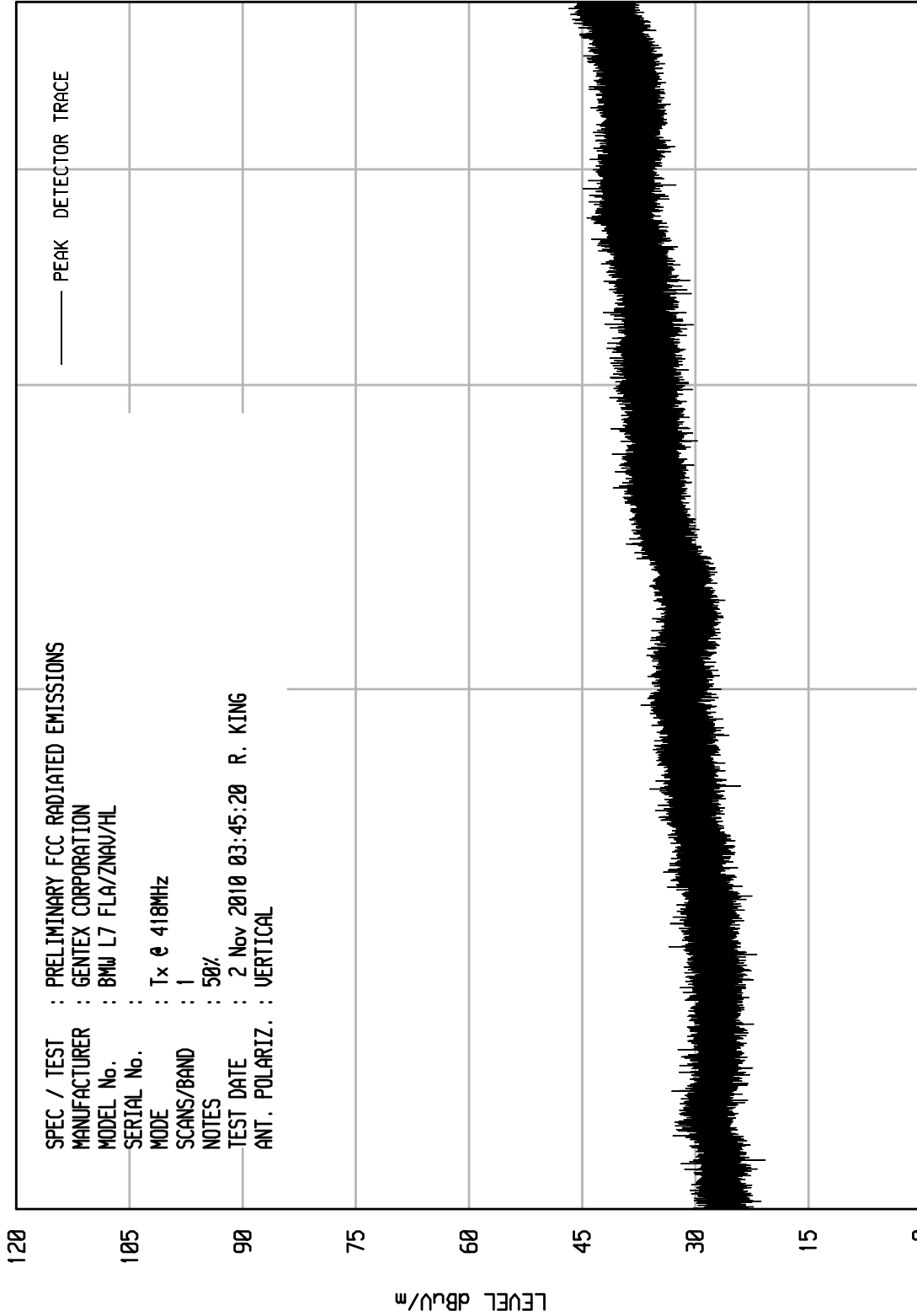
UKA1 01/25/10



ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 4

UKA1 01/25/10



START = 1000

FREQUENCY MHz

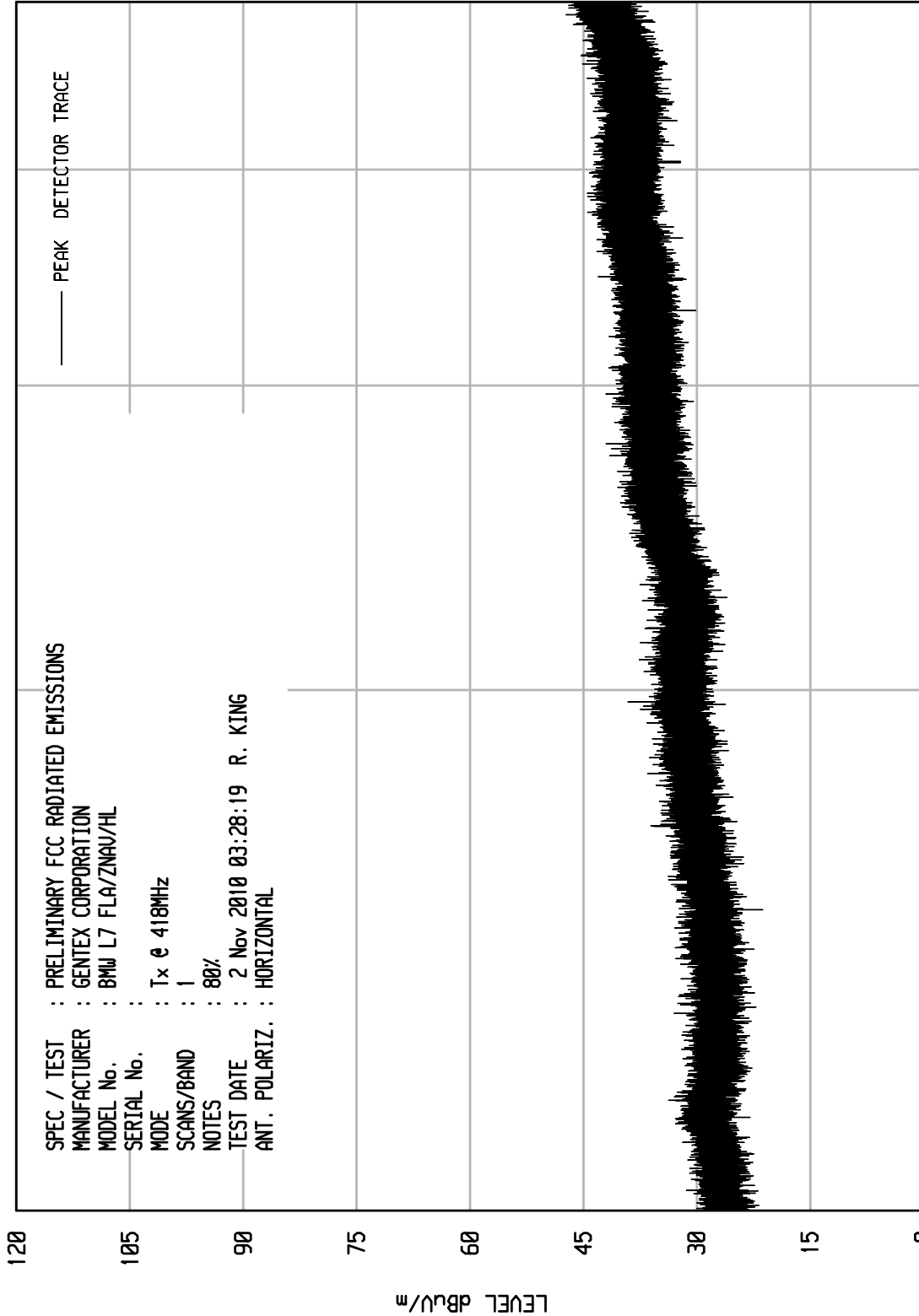
STOP = 5000



ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 2

UKA1 01/25/10



STOP = 5000

FREQUENCY MHz

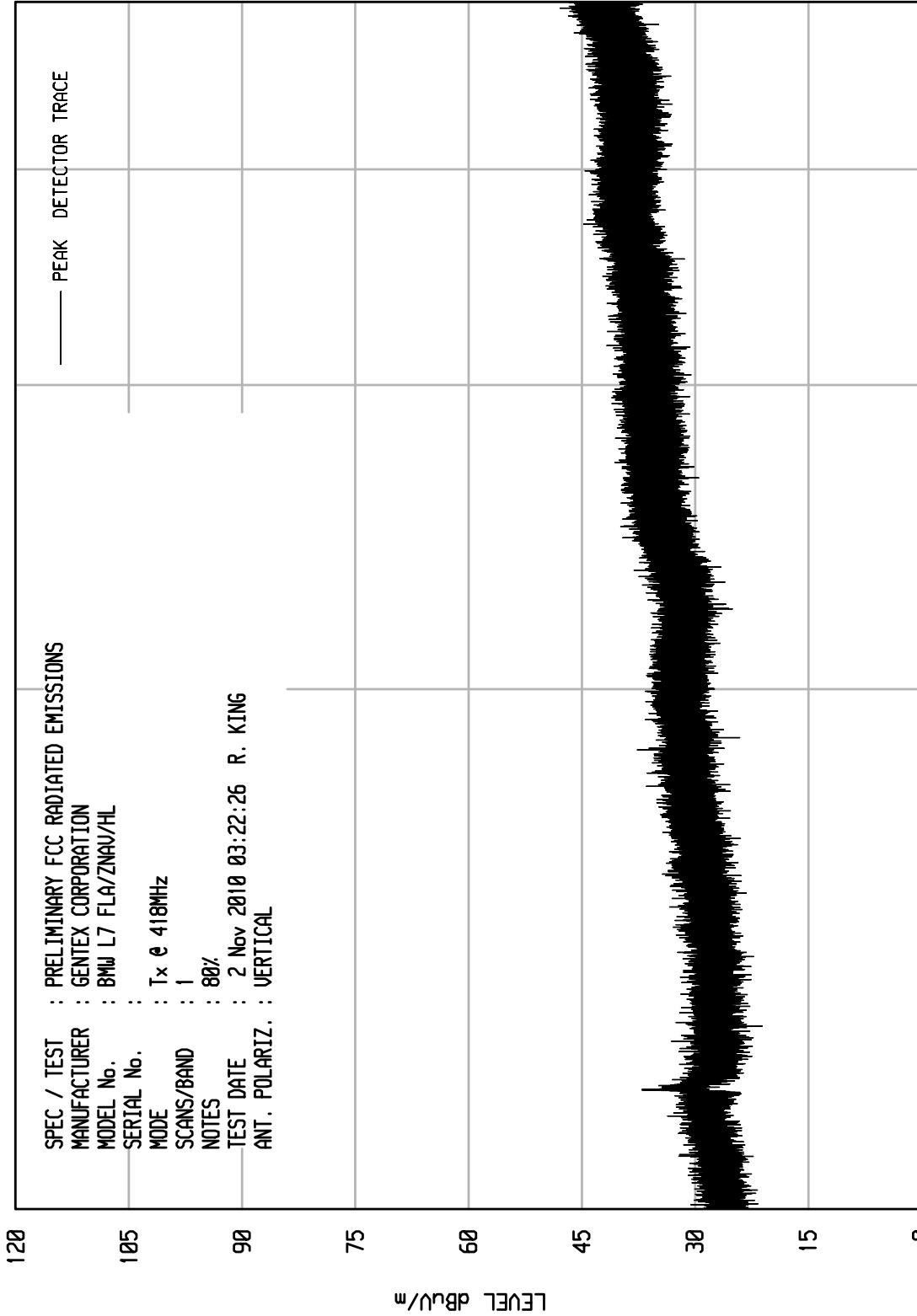
START = 1000



ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 1

UKA1 01/25/10



120

105

90

75

60

45

30

15

0

LEVEL dBu/m

START = 1000

FREQUENCY MHz

STOP = 5000



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 288MHz
 : 30% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBUV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
288.0	H	58.4		1.3	13.7	-10.5	62.9	1401.4	4916.7	-10.9
288.0	V	68.4		1.3	13.7	-10.5	73.0	4467.3	4916.7	-0.8
576.0	H	26.6		1.9	19.5	-10.5	37.6	75.6	492	-16.3
576.0	V	19.3		1.9	19.5	-10.5	30.2	32.5	492	-23.6
864.0	H	9.7		2.3	22.2	-10.5	23.7	15.4	492	-30.1
864.0	V	6.8		2.3	22.2	-10.5	20.9	11.1	492	-32.9
1152.0	H	15.2		2.7	24.1	-10.5	31.5	37.6	500	-22.5
1152.0	V	16.4		2.7	24.1	-10.5	32.8	43.4	500	-21.2
1440.0	H	16.5		3.1	25.8	-10.5	34.9	55.7	500	-19.1
1440.0	V	20.1		3.1	25.8	-10.5	38.5	84.4	500	-15.5
1728.0	H	15.0	*	3.4	27.5	-10.5	35.5	59.2	500	-18.5
1728.0	V	16.4		3.4	27.5	-10.5	36.8	69.5	500	-17.1
2016.0	H	15.4		3.6	28.3	-10.5	36.9	70.3	500	-17.0
2016.0	V	15.4		3.6	28.3	-10.5	36.9	70.3	500	-17.0
2304.0	H	14.5	*	3.8	29.1	-10.5	36.9	70.1	500	-17.1
2304.0	V	13.7	*	3.8	29.1	-10.5	36.1	64.1	500	-17.8
2592.0	H	14.4	*	3.9	29.8	-10.5	37.7	76.3	500	-16.3
2592.0	V	16.0	*	3.9	29.8	-10.5	39.3	91.9	500	-14.7
2880.0	H	16.1	*	4.0	30.7	-10.5	40.4	104.3	500	-13.6
2880.0	V	14.9	*	4.0	30.7	-10.5	39.1	90.4	500	-14.9

Checked BY Richard E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 288MHz
 : 50% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
288.0	H	53.9		1.3	14.3	-6.0	63.4	1484.6	4916.7	-10.4
288.0	V	63.1		1.3	14.3	-6.0	72.7	4301.4	4916.7	-1.2
576.0	H	22.3		1.9	19.5	-6.0	37.7	76.7	492	-16.1
576.0	V	16.7		1.9	19.5	-6.0	32.1	40.1	492	-21.8
864.0	H	9.5		2.3	22.2	-6.0	28.0	25.1	492	-25.9
864.0	V	6.4	*	2.3	22.2	-6.0	24.8	17.5	492	-29.0
1152.0	H	14.0		2.7	24.1	-6.0	34.8	54.9	500	-19.2
1152.0	V	14.6		2.7	24.1	-6.0	35.4	59.0	500	-18.6
1440.0	H	13.2		3.1	25.8	-6.0	36.1	63.6	500	-17.9
1440.0	V	17.1		3.1	25.8	-6.0	39.9	99.3	500	-14.0
1728.0	H	16.0	*	3.4	27.5	-6.0	40.9	110.5	500	-13.1
1728.0	V	14.0	*	3.4	27.5	-6.0	38.9	87.8	500	-15.1
2016.0	H	11.4	*	3.6	28.3	-6.0	37.3	73.6	500	-16.6
2016.0	V	13.5	*	3.6	28.3	-6.0	39.4	93.5	500	-14.6
2304.0	H	13.1	*	3.8	29.1	-6.0	39.9	99.1	500	-14.1
2304.0	V	13.9	*	3.8	29.1	-6.0	40.7	108.4	500	-13.3
2592.0	H	14.3	*	3.9	29.8	-6.0	42.0	125.3	500	-12.0
2592.0	V	15.0	*	3.9	29.8	-6.0	42.7	136.7	500	-11.3
2880.0	H	14.6	*	4.0	30.7	-6.0	43.3	146.3	500	-10.7
2880.0	V	14.3	*	4.0	30.7	-6.0	42.9	140.0	500	-11.1

Checked BY Richard E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 288MHz
 : 80% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBUV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
288.0	H	49.7		1.3	14.3	-1.9	63.3	1467.6	4916.7	-10.5
288.0	V	58.7		1.3	14.3	-1.9	72.4	4155.4	4916.7	-1.5
576.0	H	10.4		1.9	19.5	-1.9	29.9	31.2	492	-23.9
576.0	V	7.0		1.9	19.5	-1.9	26.6	21.3	492	-27.3
864.0	H	4.9	*	2.3	22.2	-1.9	27.5	23.8	492	-26.3
864.0	V	3.7	*	2.3	22.2	-1.9	26.3	20.7	492	-27.5
1152.0	H	14.8	*	2.7	24.1	-1.9	39.7	96.2	500	-14.3
1152.0	V	15.0	*	2.7	24.1	-1.9	39.9	99.0	500	-14.1
1440.0	H	17.5		3.1	25.8	-1.9	44.5	167.3	500	-9.5
1440.0	V	17.9		3.1	25.8	-1.9	44.9	175.2	500	-9.1
1728.0	H	14.8		3.4	27.5	-1.9	43.8	154.1	500	-10.2
1728.0	V	15.0		3.4	27.5	-1.9	44.0	158.6	500	-10.0
2016.0	H	15.2	*	3.6	28.3	-1.9	45.2	182.2	500	-8.8
2016.0	V	15.0	*	3.6	28.3	-1.9	45.1	179.3	500	-8.9
2304.0	H	14.6	*	3.8	29.1	-1.9	45.6	190.1	500	-8.4
2304.0	V	14.9	*	3.8	29.1	-1.9	45.8	195.7	500	-8.1
2592.0	H	16.0	*	3.9	29.8	-1.9	47.8	245.9	500	-6.2
2592.0	V	15.2	*	3.9	29.8	-1.9	47.0	223.2	500	-7.0
2880.0	H	15.6	*	4.0	30.7	-1.9	48.4	261.9	500	-5.6
2880.0	V	14.3	*	4.0	30.7	-1.9	47.0	225.0	500	-6.9

Checked BY Richard E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 310MHz
 : 30% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBUV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
310.0	H	59.9		1.4	13.7	-10.5	64.5	1673.7	5833.3	-10.8
310.0	V	70.0		1.4	13.7	-10.5	74.6	5353.9	5833.3	-0.7
620.0	H	10.7		2.0	19.5	-10.5	21.8	12.3	583	-33.5
620.0	V	10.0		2.0	19.5	-10.5	21.1	11.4	583	-34.2
930.0	H	10.5		2.4	22.0	-10.5	24.4	16.6	583	-30.9
930.0	V	6.7		2.4	22.0	-10.5	20.7	10.8	583	-34.6
1240.0	H	12.6	*	2.8	25.6	-10.5	30.6	33.9	500	-23.4
1240.0	V	12.7	*	2.8	25.6	-10.5	30.7	34.2	500	-23.3
1550.0	H	16.5		3.2	26.3	-10.5	35.5	59.8	500	-18.4
1550.0	V	19.0		3.2	26.3	-10.5	38.0	79.2	500	-16.0
1860.0	H	14.6	*	3.5	27.7	-10.5	35.4	58.8	583	-19.9
1860.0	V	14.8	*	3.5	27.7	-10.5	35.5	59.7	583	-19.8
2170.0	H	13.9		3.7	28.8	-10.5	35.9	62.2	583	-19.4
2170.0	V	14.4		3.7	28.8	-10.5	36.4	65.9	583	-18.9
2480.0	H	15.6	*	3.8	29.5	-10.5	38.5	83.8	583	-16.9
2480.0	V	14.8	*	3.8	29.5	-10.5	37.7	76.3	583	-17.7
2790.0	H	14.0	*	4.0	30.4	-10.5	38.0	79.0	500	-16.0
2790.0	V	14.4	*	4.0	30.4	-10.5	38.3	82.5	500	-15.6
3100.0	H	14.4	*	4.2	31.6	-10.5	39.7	96.3	583	-15.6
3100.0	V	13.9	*	4.2	31.6	-10.5	39.2	90.8	583	-16.2

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 310MHz
 : 50% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
310.0	H	54.5		1.4	13.7	-6.0	63.5	1498.6	5833.3	-11.8
310.0	V	63.7		1.4	13.7	-6.0	72.8	4341.8	5833.3	-2.6
620.0	H	8.6		2.0	19.2	-6.0	23.8	15.5	583	-31.5
620.0	V	7.7		2.0	19.2	-6.0	22.9	13.9	583	-32.5
930.0	H	5.6	*	2.4	21.8	-6.0	23.8	15.4	583	-31.6
930.0	V	5.7	*	2.4	21.8	-6.0	23.9	15.7	583	-31.4
1240.0	H	14.6	*	2.8	24.6	-6.0	36.0	63.4	500	-17.9
1240.0	V	13.0	*	2.8	24.6	-6.0	34.4	52.3	500	-19.6
1550.0	H	14.3		3.2	26.4	-6.0	37.8	77.8	500	-16.2
1550.0	V	16.3		3.2	26.4	-6.0	39.8	98.1	500	-14.1
1860.0	H	14.1	*	3.5	29.0	-6.0	40.6	107.2	583	-14.7
1860.0	V	14.6	*	3.5	29.0	-6.0	41.1	113.6	583	-14.2
2170.0	H	14.6		3.7	28.8	-6.0	41.1	113.0	583	-14.3
2170.0	V	14.0	*	3.7	28.8	-6.0	40.4	105.1	583	-14.9
2480.0	H	15.2	*	3.8	29.5	-6.0	42.5	132.9	583	-12.8
2480.0	V	14.4	*	3.8	29.5	-6.0	41.7	121.6	583	-13.6
2790.0	H	14.4	*	4.0	30.4	-6.0	42.8	137.4	500	-11.2
2790.0	V	15.7	*	4.0	30.4	-6.0	44.1	160.2	500	-9.9
3100.0	H	14.3	*	4.2	31.6	-6.0	44.0	158.0	583	-11.3
3100.0	V	14.1	*	4.2	31.6	-6.0	43.9	155.8	583	-11.5

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 310MHz
 : 80% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBUV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
310.0	H	48.3		1.4	13.7	-1.9	61.4	1178.1	5833.3	-13.9
310.0	V	58.5		1.4	13.7	-1.9	71.7	3843.0	5833.3	-3.6
620.0	H	5.9		2.0	19.5	-1.9	25.5	18.8	583	-29.8
620.0	V	5.2		2.0	19.5	-1.9	24.8	17.4	583	-30.5
930.0	H	4.8	*	2.4	22.0	-1.9	27.3	23.3	583	-28.0
930.0	V	4.5	*	2.4	22.0	-1.9	27.0	22.5	583	-28.3
1240.0	H	14.0	*	2.8	25.6	-1.9	40.5	106.3	500	-13.5
1240.0	V	12.6	*	2.8	25.6	-1.9	39.1	90.2	500	-14.9
1550.0	H	14.9	*	3.2	26.3	-1.9	42.4	132.2	500	-11.6
1550.0	V	16.1		3.2	26.3	-1.9	43.7	152.5	500	-10.3
1860.0	H	15.0	*	3.5	27.7	-1.9	44.3	164.4	583	-11.0
1860.0	V	14.0	*	3.5	27.7	-1.9	43.3	146.3	583	-12.0
2170.0	H	14.4	*	3.7	28.8	-1.9	44.9	176.4	583	-10.4
2170.0	V	13.7	*	3.7	28.8	-1.9	44.3	163.9	583	-11.0
2480.0	H	14.9	*	3.8	29.5	-1.9	46.3	207.0	583	-9.0
2480.0	V	14.5	*	3.8	29.5	-1.9	46.0	198.4	583	-9.4
2790.0	H	15.3	*	4.0	30.4	-1.9	47.8	246.7	500	-6.1
2790.0	V	14.9	*	4.0	30.4	-1.9	47.4	233.9	500	-6.6
3100.0	H	14.5	*	4.2	31.6	-1.9	48.4	261.6	583	-7.0
3100.0	V	13.9	*	4.2	31.6	-1.9	47.7	243.1	583	-7.6

Checked BY Richard E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 418MHz
 : 30% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
418.0	H	64.8		1.6	17.3	-10.5	73.3	4630.3	10333.3	-7.0
418.0	V	71.2		1.6	17.3	-10.5	79.7	9640.8	10333.3	-0.6
836.0	H	24.2		2.3	21.3	-10.5	37.3	73.3	1033.3	-23.0
836.0	V	23.6		2.3	21.3	-10.5	36.7	68.4	1033.3	-23.6
1254.0	H	14.9		2.8	25.6	-10.5	32.9	44.2	1033.3	-27.4
1254.0	V	16.1		2.8	25.6	-10.5	34.1	50.9	1033.3	-26.1
1672.0	H	14.6		3.3	26.9	-10.5	34.4	52.2	500	-19.6
1672.0	V	15.0		3.3	26.9	-10.5	34.7	54.6	500	-19.2
2090.0	H	18.3		3.7	28.5	-10.5	40.1	100.7	1033.3	-20.2
2090.0	V	17.5		3.7	28.5	-10.5	39.3	91.7	1033.3	-21.0
2508.0	H	13.9	*	3.9	29.6	-10.5	36.8	69.5	1033.3	-23.4
2508.0	V	15.6	*	3.9	29.6	-10.5	38.5	84.6	1033.3	-21.7
2926.0	H	15.2	*	4.0	30.8	-10.5	39.5	94.8	1033.3	-20.7
2926.0	V	15.4	*	4.0	30.8	-10.5	39.8	97.9	1033.3	-20.5
3344.0	H	14.6	*	4.4	32.9	-10.5	41.5	118.6	1033.3	-18.8
3344.0	V	13.9	*	4.4	32.9	-10.5	40.7	108.7	1033.3	-19.6
3762.0	H	16.5	*	4.8	34.1	-10.5	45.0	178.8	500	-8.9
3762.0	V	15.6	*	4.8	34.1	-10.5	44.1	159.9	500	-9.9
4180.0	H	14.6	*	5.2	34.3	-10.5	43.7	152.6	500	-10.3
4180.0	V	14.6	*	5.2	34.3	-10.5	43.7	152.6	500	-10.3

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 418MHz
 : 50% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
418.0	H	58.3		1.6	17.3	-6.0	71.2	3644.3	10333.3	-9.1
418.0	V	64.7		1.6	17.3	-6.0	77.6	7614.0	10333.3	-2.7
836.0	H	26.8		2.3	21.3	-6.0	44.4	165.9	1033.3	-15.9
836.0	V	20.6		2.3	21.3	-6.0	38.2	81.3	1033.3	-22.1
1254.0	H	12.8		2.8	25.6	-6.0	35.3	58.2	1033.3	-25.0
1254.0	V	15.4		2.8	25.6	-6.0	37.9	78.5	1033.3	-22.4
1672.0	H	14.4		3.3	26.9	-6.0	38.6	84.7	500	-15.4
1672.0	V	14.4		3.3	26.9	-6.0	38.6	84.7	500	-15.4
2090.0	H	15.2	*	3.7	28.5	-6.0	41.4	116.8	1033.3	-18.9
2090.0	V	15.6		3.7	28.5	-6.0	41.8	122.6	1033.3	-18.5
2508.0	H	15.2	*	3.9	29.6	-6.0	42.6	134.5	1033.3	-17.7
2508.0	V	15.2	*	3.9	29.6	-6.0	42.6	134.5	1033.3	-17.7
2926.0	H	15.0	*	4.0	30.8	-6.0	43.8	155.8	1033.3	-16.4
2926.0	V	13.9	*	4.0	30.8	-6.0	42.7	136.6	1033.3	-17.6
3344.0	H	14.6	*	4.4	32.9	-6.0	45.9	198.0	1033.3	-14.4
3344.0	V	14.4	*	4.4	32.9	-6.0	45.7	192.4	1033.3	-14.6
3762.0	H	16.4	*	4.8	34.1	-6.0	49.4	293.7	500	-4.6
3762.0	V	16.4	*	4.8	34.1	-6.0	49.4	293.7	500	-4.6
4180.0	H	15.6	*	5.2	34.3	-6.0	49.1	283.8	500	-4.9
4180.0	V	16.0	*	5.2	34.3	-6.0	49.5	297.9	500	-4.5

Checked BY Richard E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 418MHz
 : 80% Modulation
 : TEST DISTANCE IS 3 METERS

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBUV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
418.0	H	52.6		1.6	17.3	-1.9	69.6	3031.2	10333.3	-10.7
418.0	V	61.4		1.6	17.3	-1.9	78.4	8348.6	10333.3	-1.9
836.0	H	22.5		2.3	21.3	-1.9	44.2	162.1	1033.3	-16.1
836.0	V	17.6		2.3	21.3	-1.9	39.3	92.2	1033.3	-21.0
1254.0	H	15.4		2.8	24.6	-1.9	41.0	111.9	1033.3	-19.3
1254.0	V	14.6		2.8	24.6	-1.9	40.2	102.0	1033.3	-20.1
1672.0	H	14.6	*	3.3	27.5	-1.9	43.6	151.2	500	-10.4
1672.0	V	14.9	*	3.3	27.5	-1.9	43.8	155.6	500	-10.1
2090.0	H	14.5	*	3.7	28.5	-1.9	44.8	174.0	1033.3	-15.5
2090.0	V	16.0		3.7	28.5	-1.9	46.3	206.3	1033.3	-14.0
2508.0	H	15.4		3.9	29.6	-1.9	47.0	222.7	1033.3	-13.3
2508.0	V	14.1	*	3.9	29.6	-1.9	45.7	191.7	1033.3	-14.6
2926.0	H	15.3	*	4.0	30.8	-1.9	48.2	257.9	1033.3	-12.1
2926.0	V	15.3	*	4.0	30.8	-1.9	48.2	257.9	1033.3	-12.1
3344.0	H	14.5	*	4.4	32.9	-1.9	49.9	313.1	1033.3	-10.4
3344.0	V	13.6	*	4.4	32.9	-1.9	49.0	282.3	1033.3	-11.3
3762.0	H	16.1	*	4.8	34.1	-1.9	53.2	455.9	500	-0.8
3762.0	V	16.4	*	4.8	34.1	-1.9	53.5	470.8	500	-0.5
4180.0	H	14.8	*	5.2	34.3	-1.9	52.4	414.5	500	-1.6
4180.0	V	15.2	*	5.2	34.3	-1.9	52.7	433.5	500	-1.2

Checked BY RICHARD E. KING :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 340MHz, 365MHz and 390MHz
 : 80% Modulation 30%, 50% and 80% Modulation
 : TEST DISTANCE IS 3 METERS

30% Modulation

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
340.0	H	64.5		1.5	15.0	-10.5	70.5	3350.4	7083.3	-6.5
340.0	V	69.3		1.5	15.0	-10.5	75.3	5815.6	7083.3	-1.7
365.0	H	60.8		1.5	15.8	-10.5	67.7	2416.1	8125.0	-10.5
365.0	V	68.5		1.5	15.4	-10.5	75.0	5599.0	8125.0	-3.2
390.0	H	62.6		1.6	16.2	-10.5	69.9	3132.7	9166.7	-9.3
390.0	V	69.9		1.6	16.2	-10.5	77.2	7259.8	9166.7	-2.0

50% Modulation

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
340.0	H	58.7		1.5	15.0	-6.0	69.1	2861.5	7083.3	-7.9
340.0	V	64.8		1.5	15.0	-6.0	75.2	5775.6	7083.3	-1.8
365.0	H	56.4		1.5	15.8	-6.0	67.7	2424.4	8125.0	-10.5
365.0	V	65.4		1.5	15.8	-6.0	76.7	6856.6	8125.0	-1.5
390.0	H	57.2		1.6	16.2	-6.0	68.9	2801.7	9166.7	-10.3
390.0	V	65.1		1.6	16.2	-6.0	76.8	6957.0	9166.7	-2.4

80% Modulation

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
340.0	H	53.7		1.5	15.0	-1.9	68.3	2585.8	7083.3	-8.8
340.0	V	61.6		1.5	15.0	-1.9	76.2	6420.9	7083.3	-0.9
365.0	H	53.7		1.5	15.8	-1.9	69.1	2855.0	8125.0	-9.1
365.0	V	61.8		1.5	15.8	-1.9	77.2	7229.5	8125.0	-1.0
390.0	H	54.6		1.6	16.2	-1.9	70.5	3337.5	9166.7	-8.8
390.0	V	62.5		1.6	16.2	-1.9	78.4	8287.5	9166.7	-0.9

Checked BY RICHARD E. King :

Richard E. King



DATA PAGE

MANUFACTURER : Gentex Corporation
 MODEL : BMW L7 FLA/ZNAV/HL
 S/N : None Assigned
 SPECIFICATION : FCC-15C Radiated Emissions
 DATE : October 28, 2010
 NOTES : Transmitting @ 321MHz
 : measuring the 3rd harmonic which falls into a restricted band.
 : 30%, 50% and 80% Modulation
 : TEST DISTANCE IS 3 METERS
 : Quasi Peak readings with duty cycle factor.

30% Modulation

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
963.0	H	16.4		2.4	22.9	-10.5	31.3	36.5	500	-22.7
963.0	V	16.8		2.4	22.9	-10.5	31.6	38.0	500	-22.4

50% Modulation

Freq (MHz)	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Duty Cycle Factor (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
963.0	H	7.9	*	2.4	22.9	-6.0	27.1	22.7	500	-26.9
963.0	V	6.8	*	2.4	22.9	-6.0	26.1	20.1	500	-27.9

80% Modulation

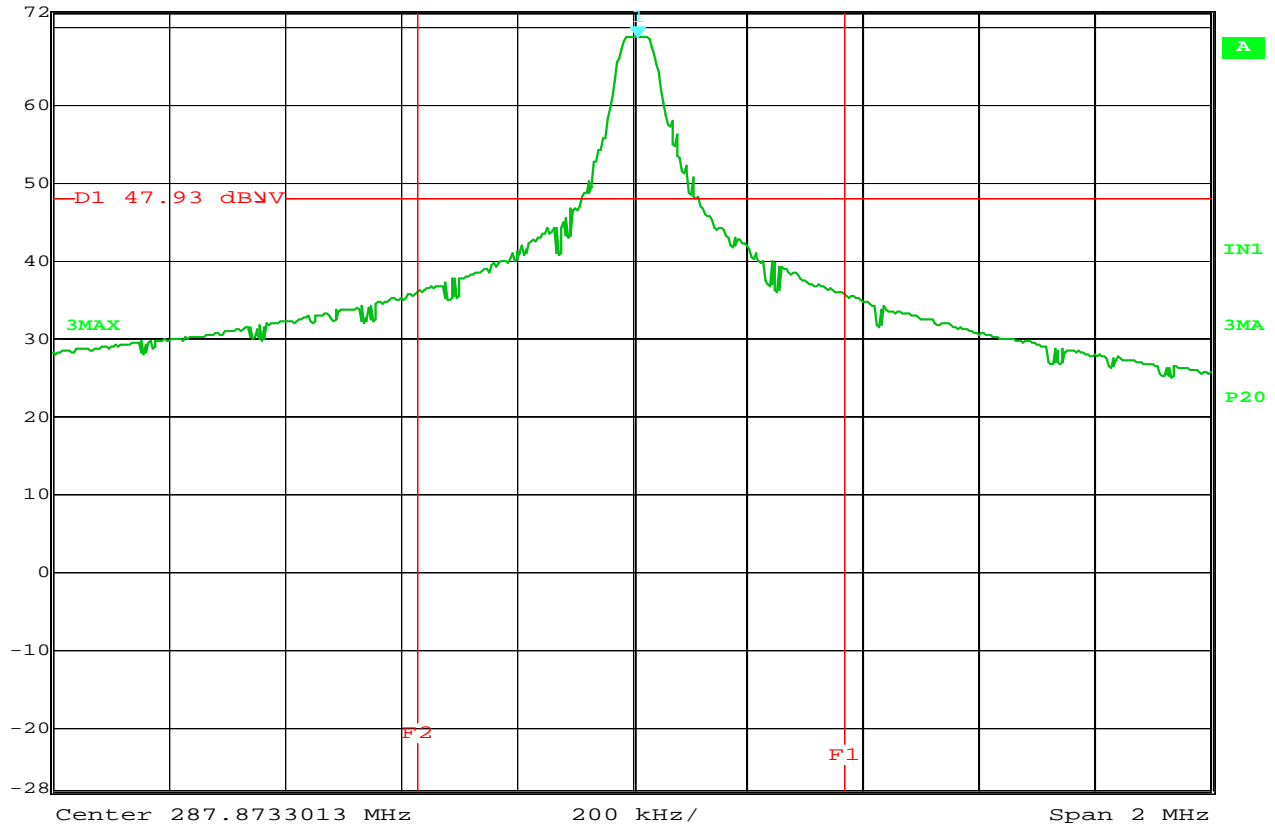
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963.0	H	5.8	*	2.4	22.9	-1.9	23.4	14.8	500	-30.6
963.0	V	5.7	*	2.4	22.9	-1.9	23.4	14.8	500	-30.6

Checked BY RICHARD E. KING :

Richard E. King



Marker 1 [T3] RBW 50 kHz RF Att 0 dB
 Ref Lvl 68.66 dBµV VBW 500 kHz
 72 dBµV 287.88332133 MHz SWT 5.5 ms Unit dBµV



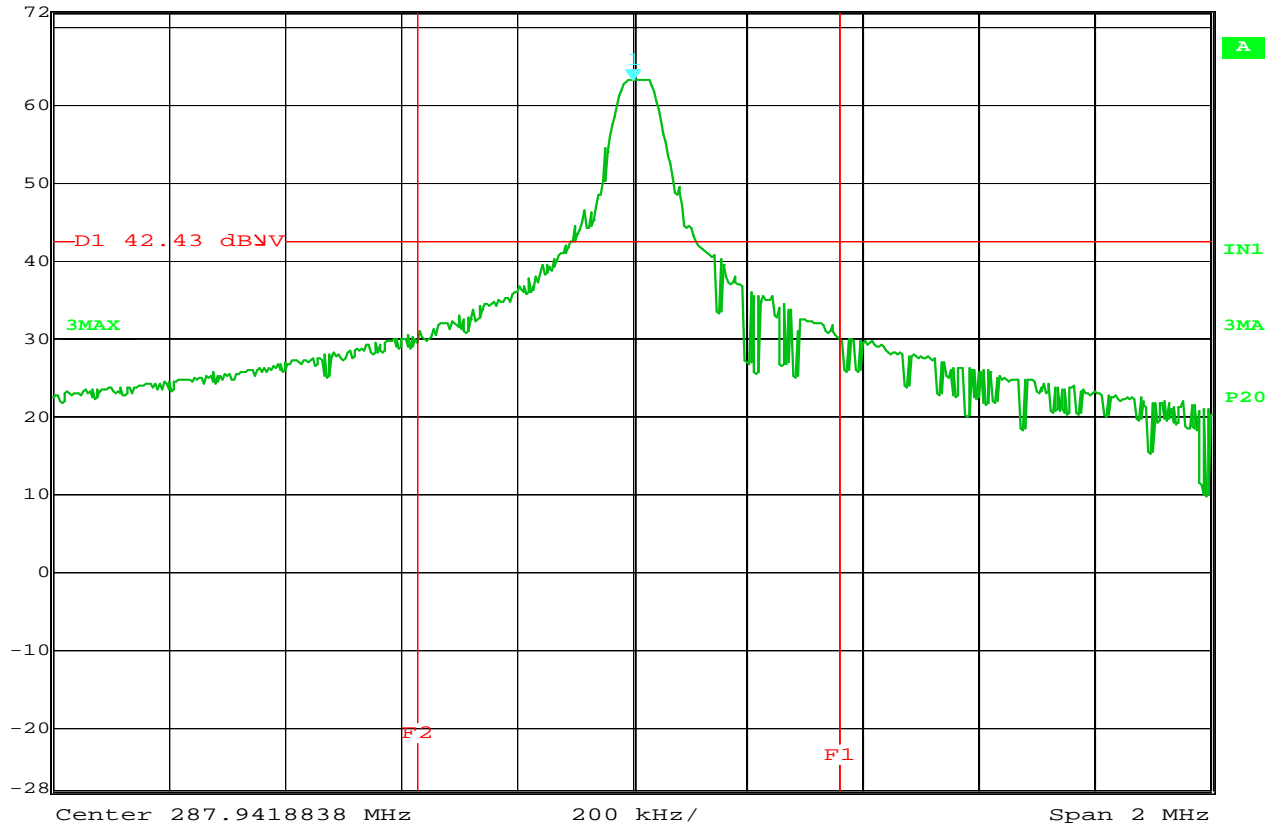
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FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
 MODEL NUMBER : BMW L7 FLA/ZNAV/HL
 SERIAL NUMBER : None Assigned
 TEST MODULATION : 30% Modulation
 TEST MODE : Tx @ 288MHz
 TEST PARAMETER : Display Line (D1) represents the 20dB down point
 : from the modulated carrier. Display Lines (F1 &
 : F2) represent the 0.25% bandwidth.
 EQUIPMENT USED : RBB0, NTA1



Marker 1 [T3] RBW 50 kHz RF Att 0 dB
Ref Lvl 63.02 dB μ V VBW 500 kHz
72 dB μ V 287.94188377 MHz SWT 5.5 ms Unit dB μ V



Date: 27.OCT.2010 06:40:45

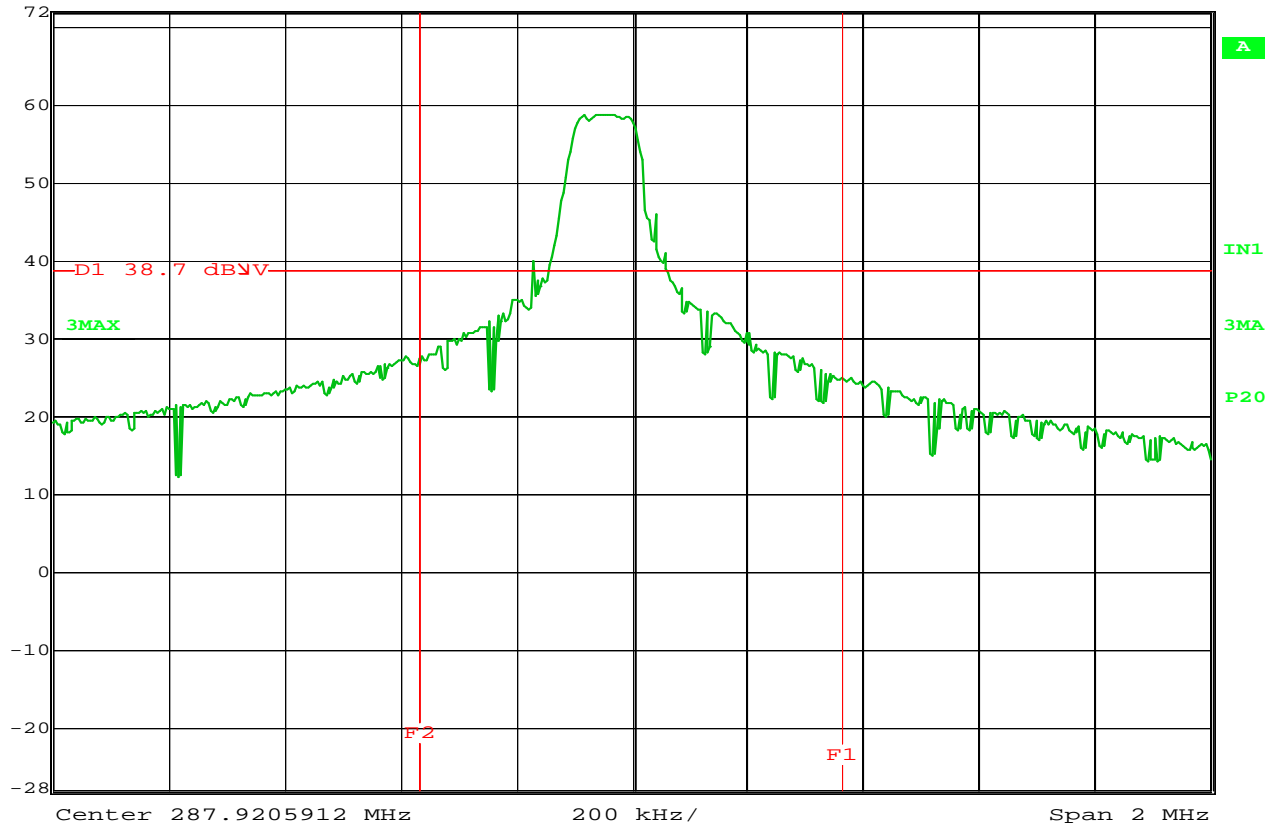
FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
MODEL NUMBER : BMW L7 FLA/ZNAV/HL
SERIAL NUMBER : None Assigned
TEST MODULATION : 50% Modulation
TEST MODE : Tx @ 288MHz
TEST PARAMETER : Display Line (D1) represents the 20dB down point
: from the modulated carrier. Display Lines (F1 &
: F2) represent the 0.25% bandwidth.
EQUIPMENT USED : RBB0, NTA1



Ref Lvl
72 dBµV

RBW 50 kHz RF Att 0 dB
VBW 500 kHz
SWT 5.5 ms Unit dBµV



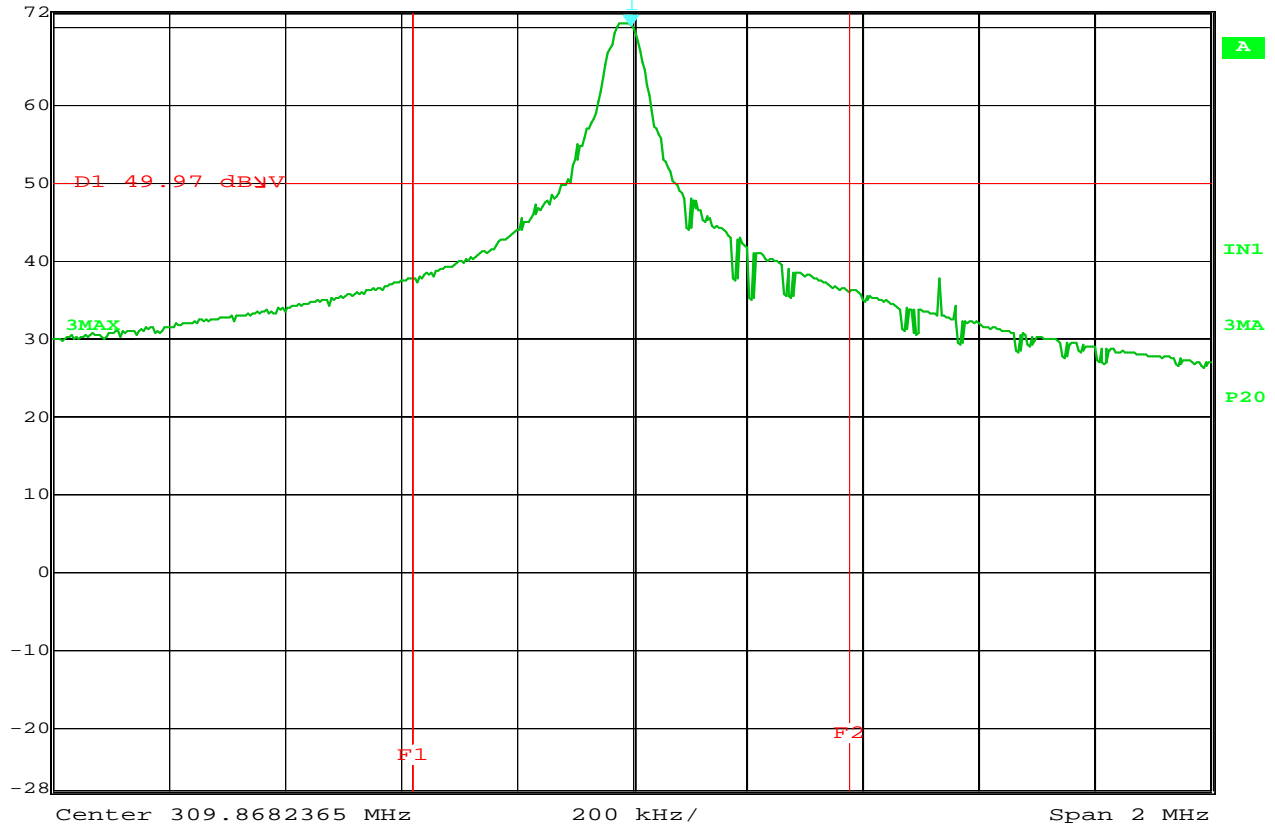
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FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
 MODEL NUMBER : BMW L7 FLA/ZNAV/HL
 SERIAL NUMBER : None Assigned
 TEST MODULATION : 80% Modulation
 TEST MODE : Tx @ 288MHz
 TEST PARAMETER : Display Line (D1) represents the 20dB down point
 : from the modulated carrier. Display Lines (F1 &
 : F2) represent the 0.25% bandwidth.
 EQUIPMENT USED : RBB0, NTA2



Marker 1 [T3] RBW 50 kHz RF Att 0 dB
Ref Lvl 72 dBV 70.17 dBV VBW 500 kHz
72 dBV 309.86623246 MHz SWT 5.5 ms Unit dBV



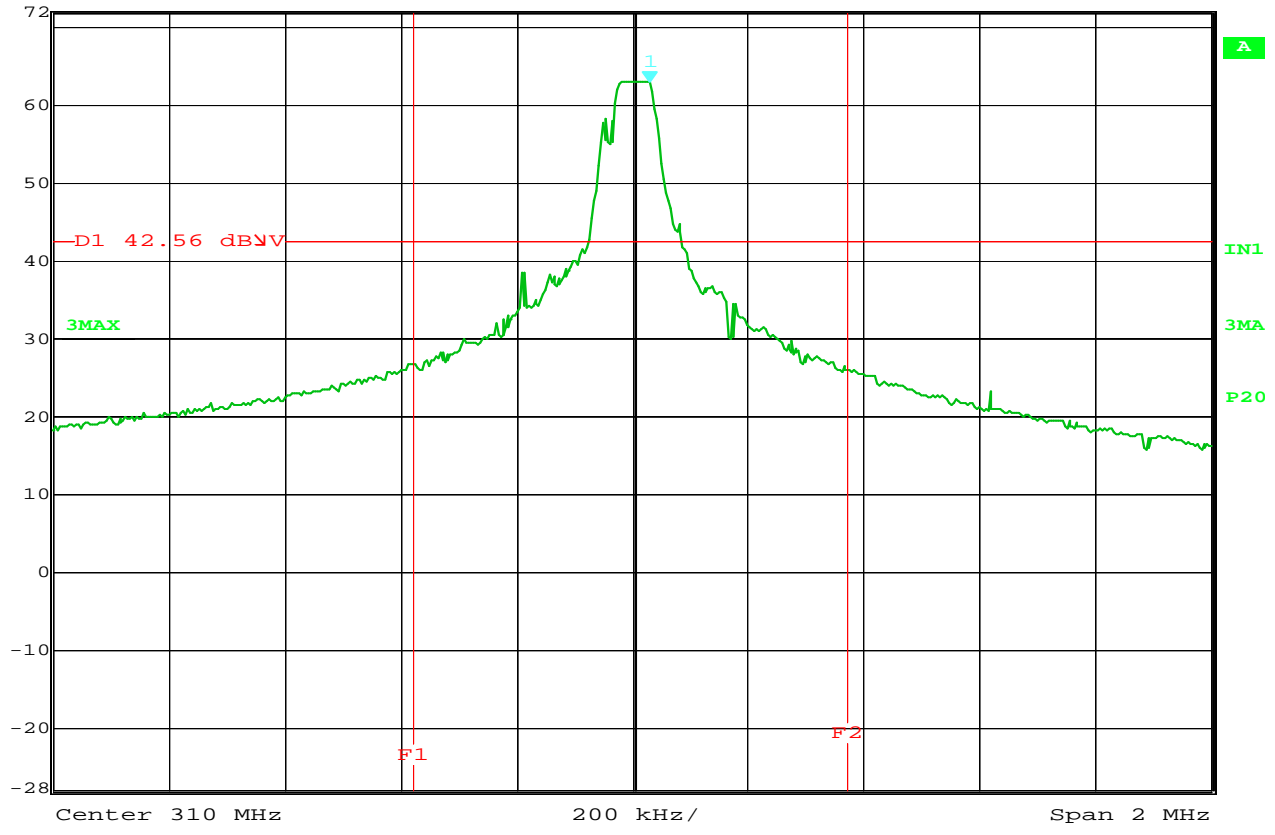
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FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
MODEL NUMBER : BMW L7 FLA/ZNAV/HL
SERIAL NUMBER : None Assigned
TEST MODULATION : 30% Modulation
TEST MODE : Tx @ 310MHz
TEST PARAMETER : Display Line (D1) represents the 20dB down point
: from the modulated carrier. Display Lines (F1 &
: F2) represent the 0.25% bandwidth.
EQUIPMENT USED : RBB0, NTA2



Marker 1 [T3] RBW 30 kHz RF Att 0 dB
 Ref Lvl 72 dBµV 62.80 dBµV VBW 300 kHz
 310.03006012 MHz SWT 6 ms Unit dBµV



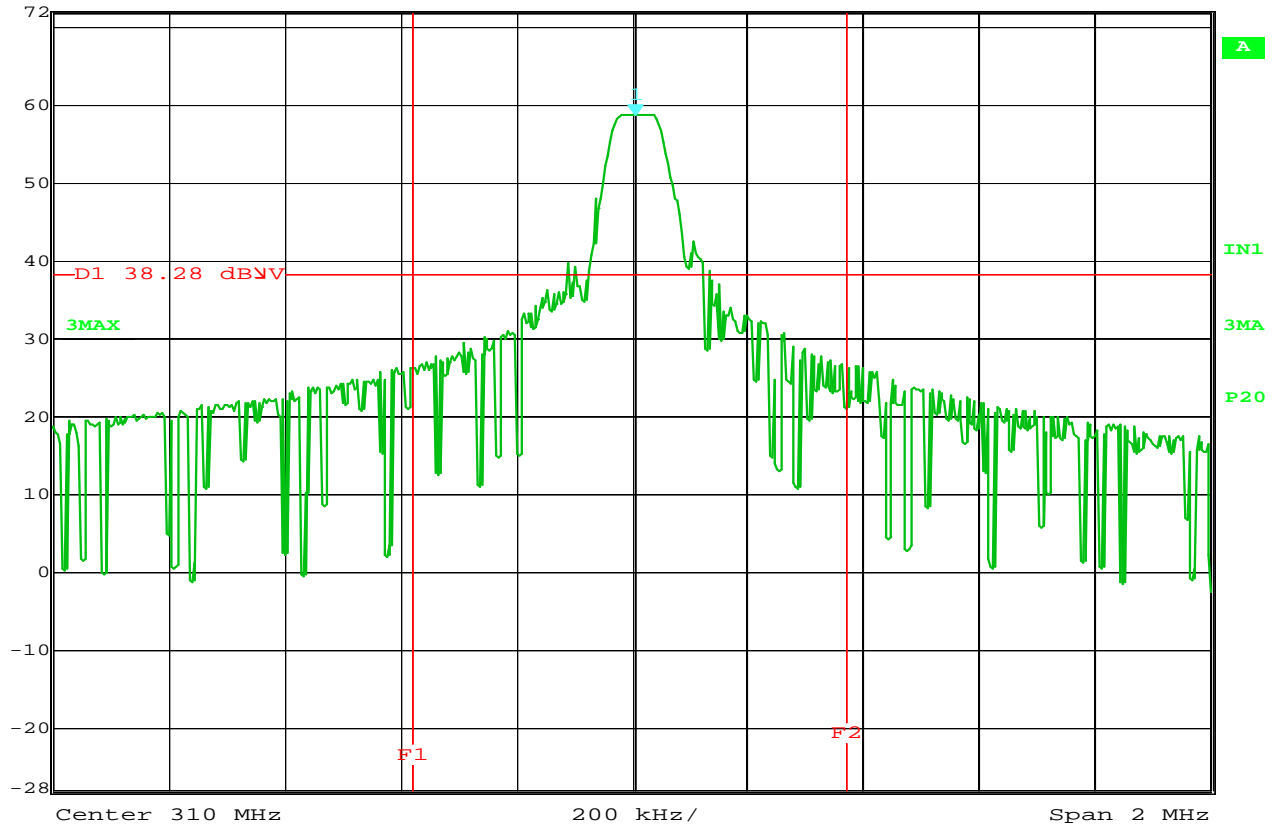
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FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
 MODEL NUMBER : BMW L7 FLA/ZNAV/HL
 SERIAL NUMBER : None Assigned
 TEST MODULATION : 50% Modulation
 TEST MODE : Tx @ 310MHz
 TEST PARAMETER : Display Line (D1) represents the 20dB down point
 : from the modulated carrier. Display Lines (F1 &
 : F2) represent the 0.25% bandwidth.
 EQUIPMENT USED : RBB0, NTA2



Ref Lvl	72 dB μ V	Marker 1 [T3]	58.61 dB μ V	310.00601202 MHz	RBW	50 kHz	RF Att	0 dB
					VBW	500 kHz		
					SWT	5.5 ms	Unit	dB μ V



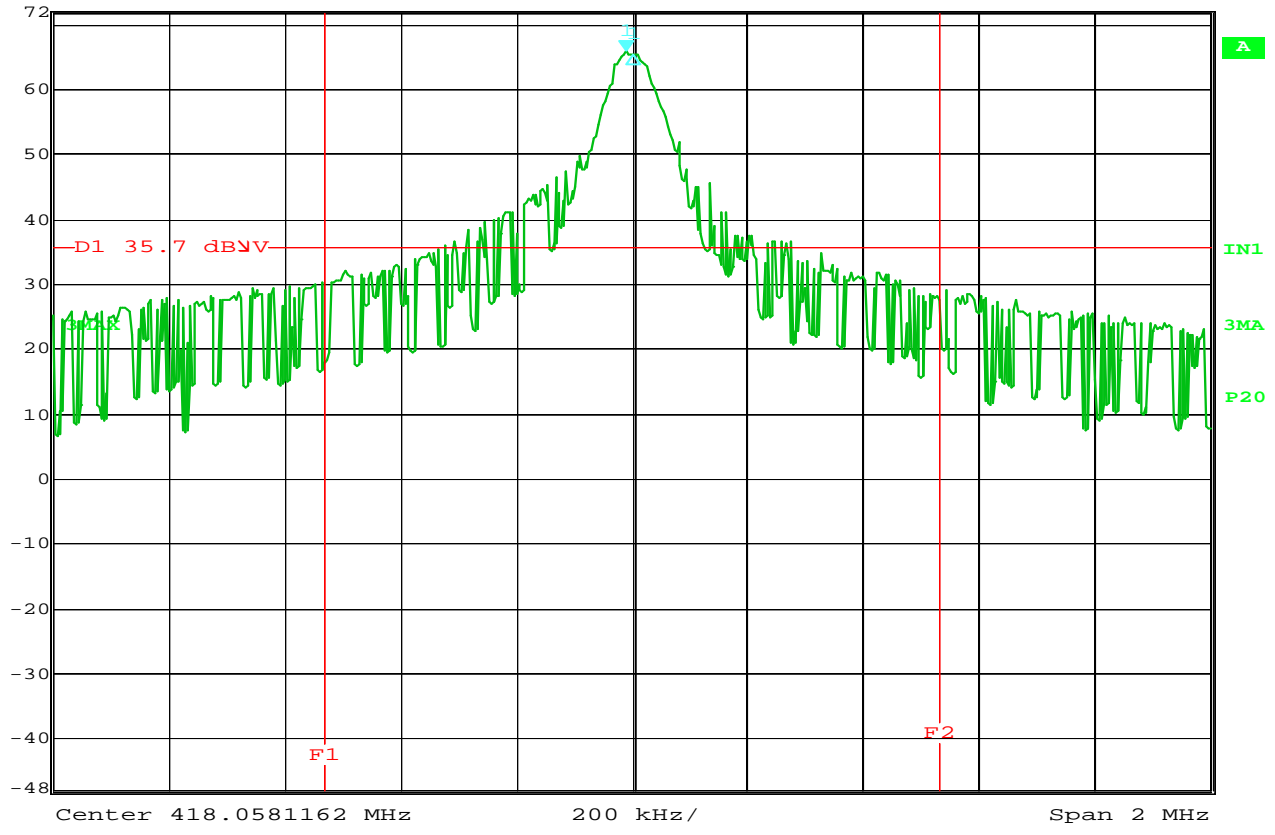
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FCC 15.231(c) 20dB Bandwidth

MANUFACTURER	: Gentex Corporation
MODEL NUMBER	: BMW L7 FLA/ZNAV/HL
SERIAL NUMBER	: None Assigned
TEST MODULATION	: 80% Modulation
TEST MODE	: Tx @ 310MHz
TEST PARAMETER	: Display Line (D1) represents the 20dB down point
	: from the modulated carrier. Display Lines (F1 &
	: F2) represent the 0.25% bandwidth.
EQUIPMENT USED	: RBB0, NTA2



Marker 1 [T3] RBW 50 kHz RF Att 0 dB
 Ref Lvl 65.70 dBµV VBW 500 kHz
 72 dBµV 418.04809619 MHz SWT 5.5 ms Unit dBµV



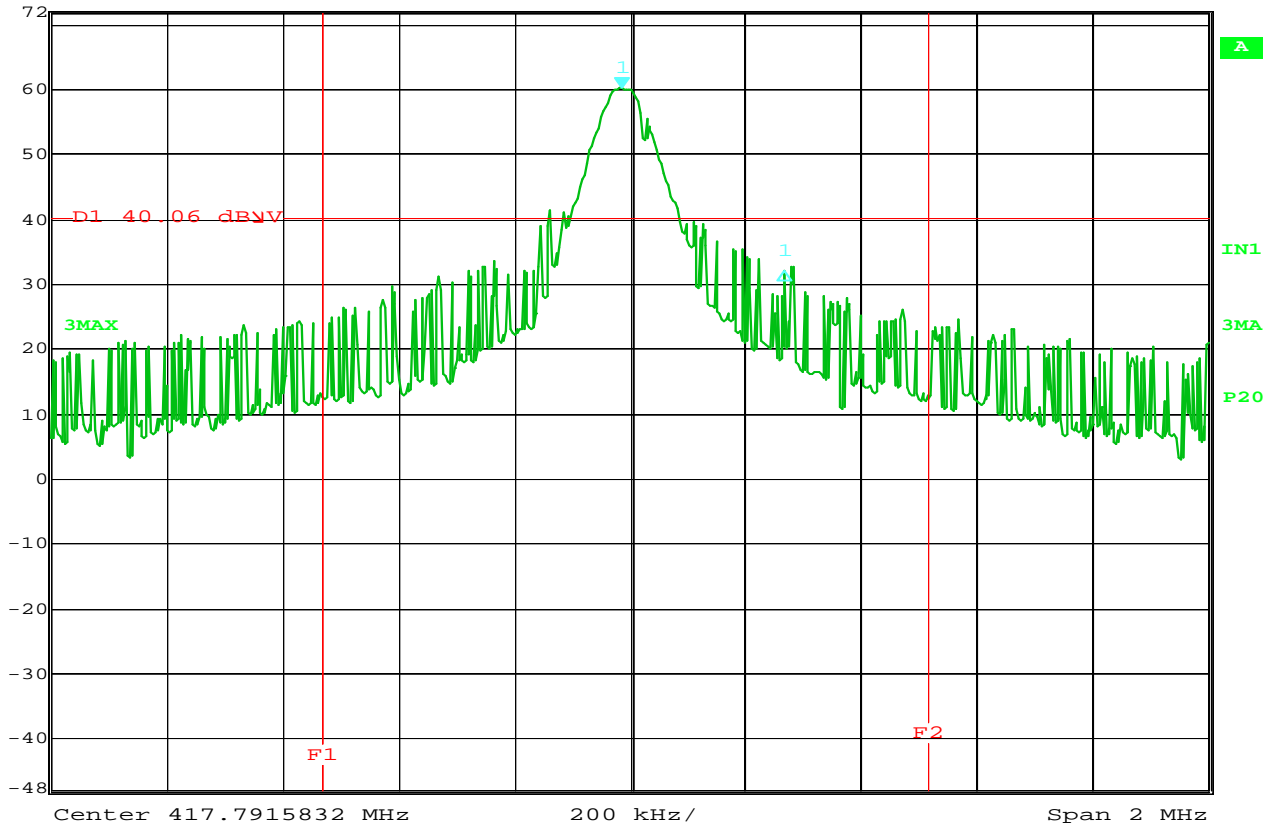
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FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
 MODEL NUMBER : BMW L7 FLA/ZNAV/HL
 SERIAL NUMBER : None Assigned
 TEST MODULATION : 30% Modulation
 TEST MODE : Tx @ 418MHz
 TEST PARAMETER : Display Line (D1) represents the 20dB down point
 : from the modulated carrier. Display Lines (F1 &
 : F2) represent the 0.25% bandwidth.
 EQUIPMENT USED : RBB0, NTA2



Marker 1 [T3] RBW 50 kHz RF Att 0 dB
Ref Lvl 60.06 dBµV VBW 500 kHz
72 dBµV 417.77755511 MHz SWT 5.5 ms Unit dBµV



Date: 10.NOV.2010 15:44:47

FCC 15.231(c) 20dB Bandwidth

MANUFACTURER : Gentex Corporation
MODEL NUMBER : BMW L7 FLA/ZNAV/HL
SERIAL NUMBER : None Assigned
TEST MODULATION : 50% Modulation
TEST MODE : Tx @ 418MHz
TEST PARAMETER : Display Line (D1) represents the 20dB down point
: from the modulated carrier. Display Lines (F1 &
: F2) represent the 0.25% bandwidth.
EQUIPMENT USED : RBB0, NTA2

