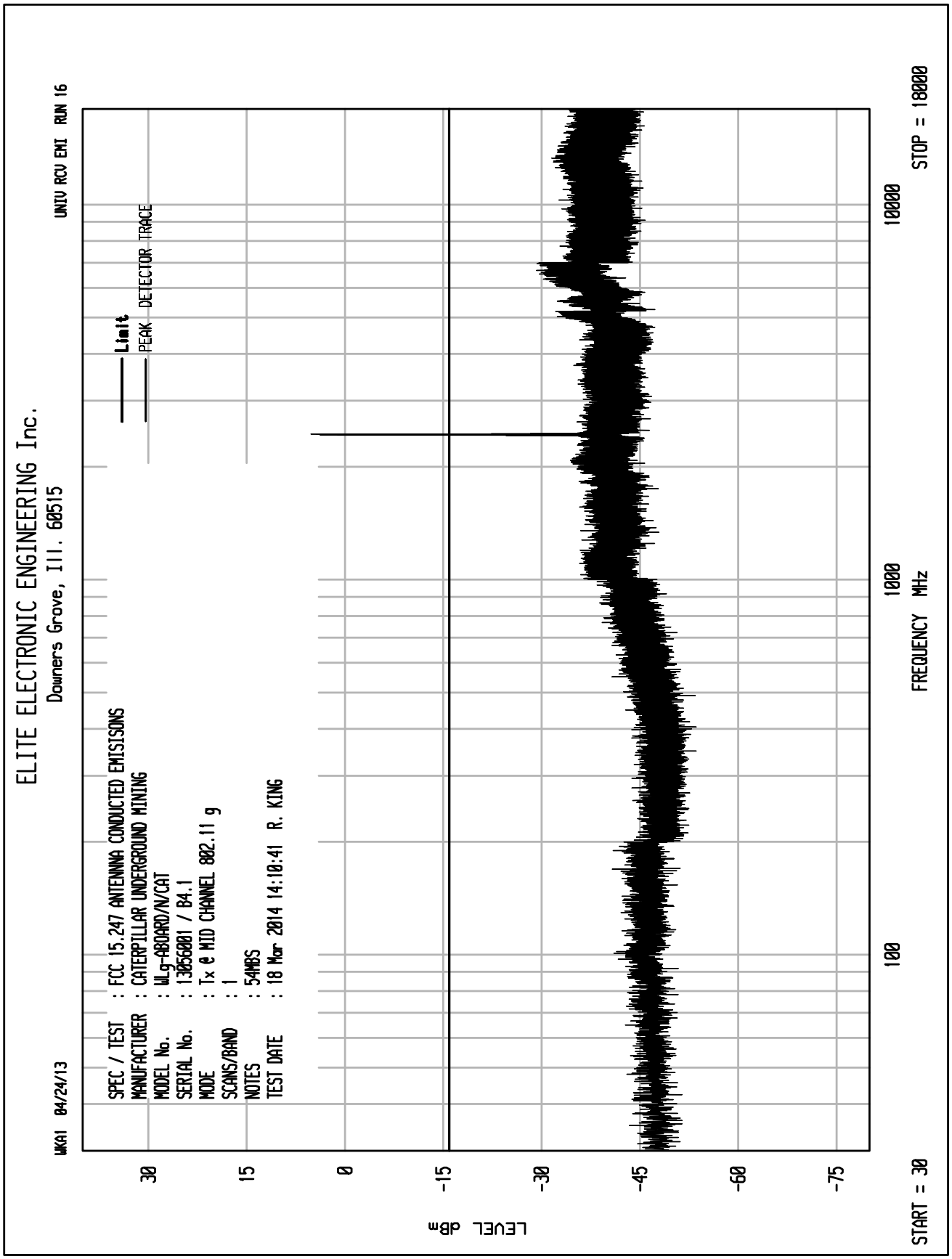
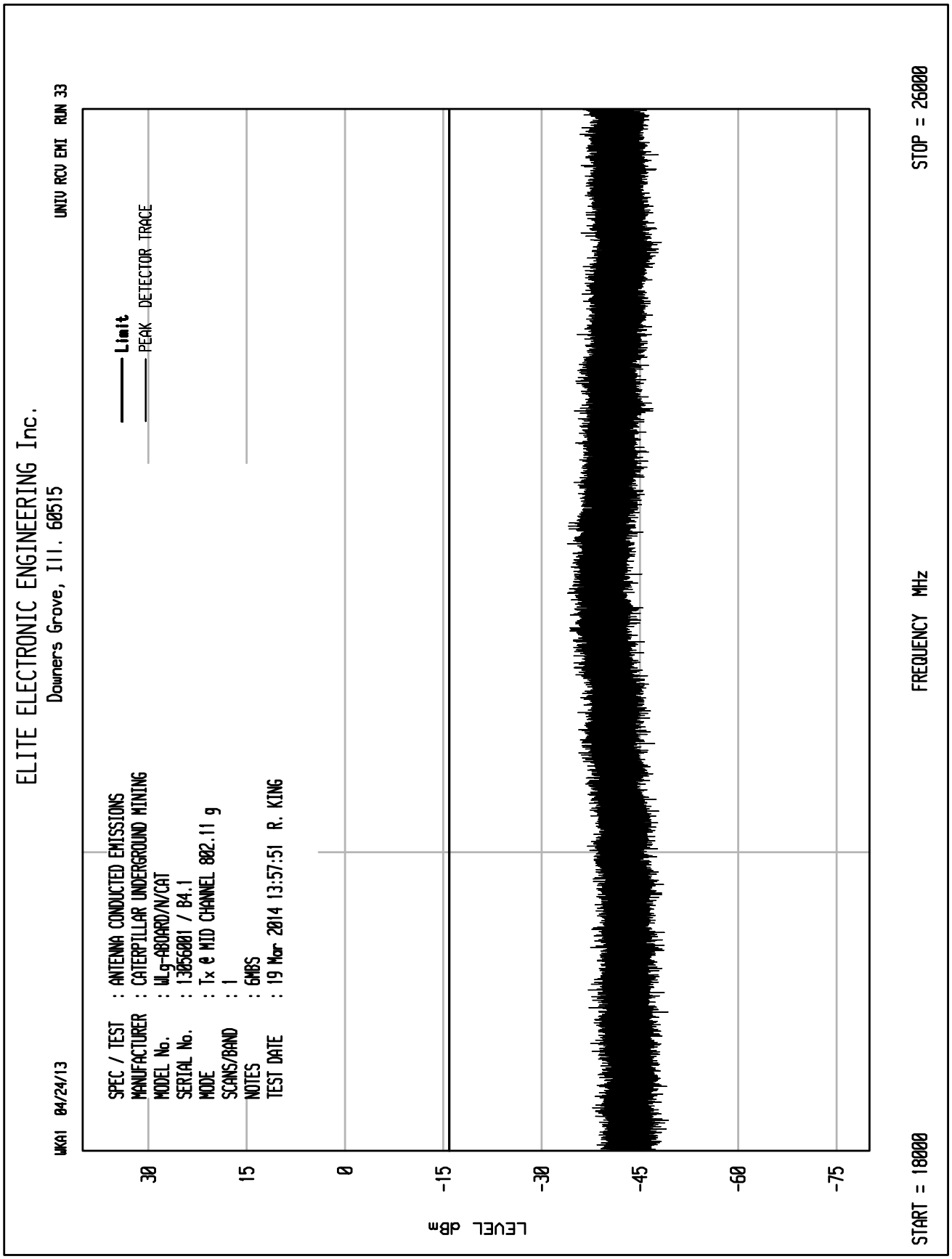
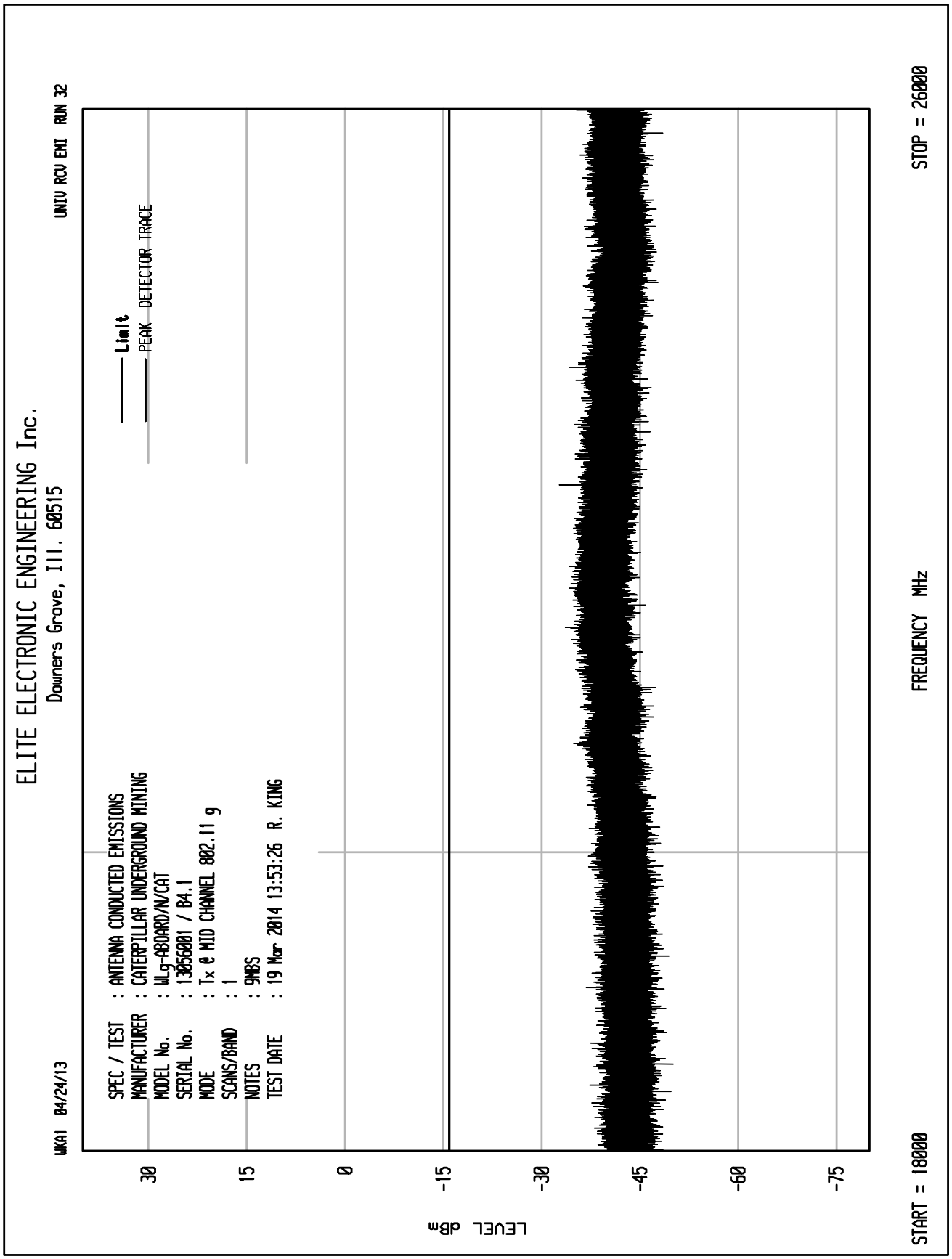
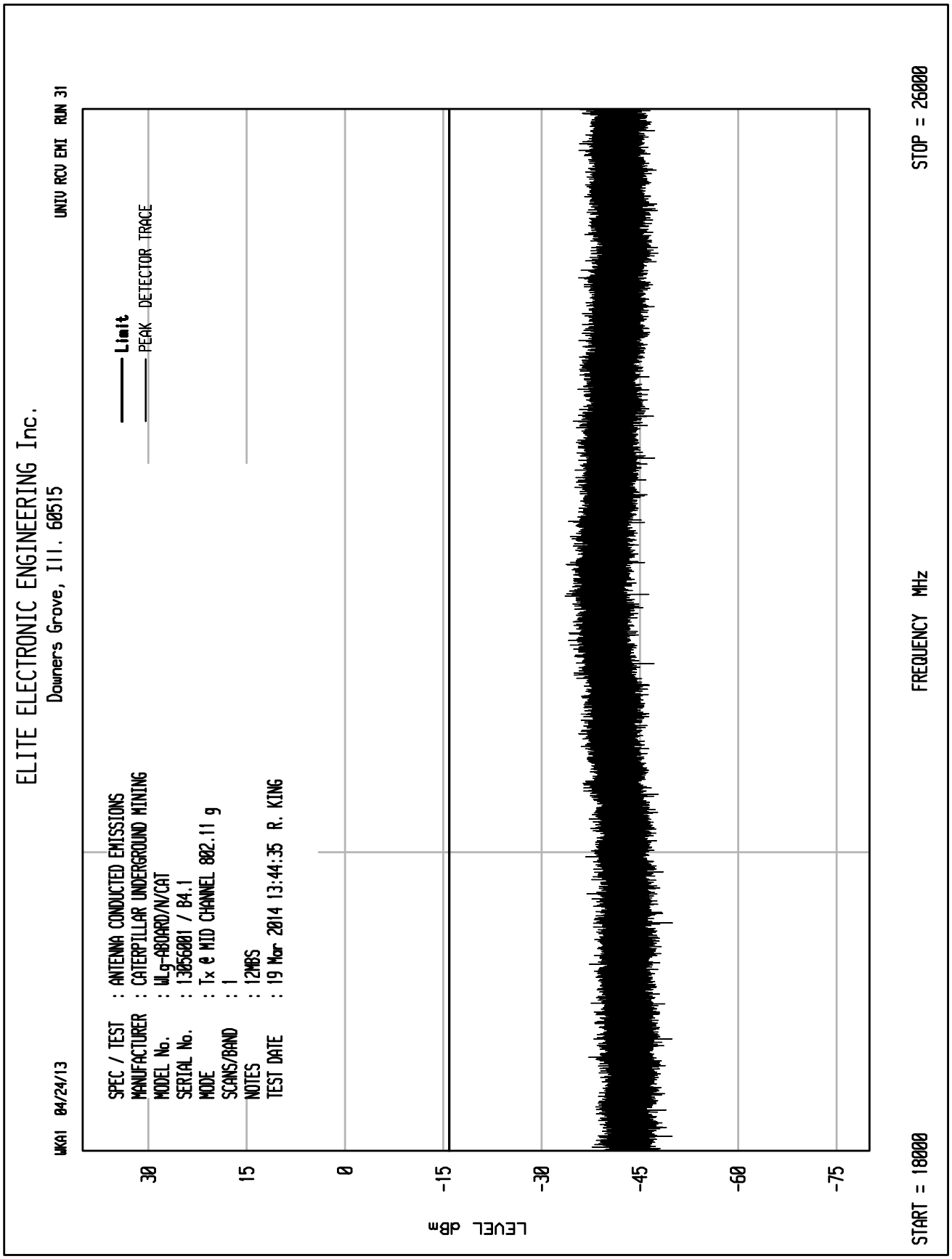
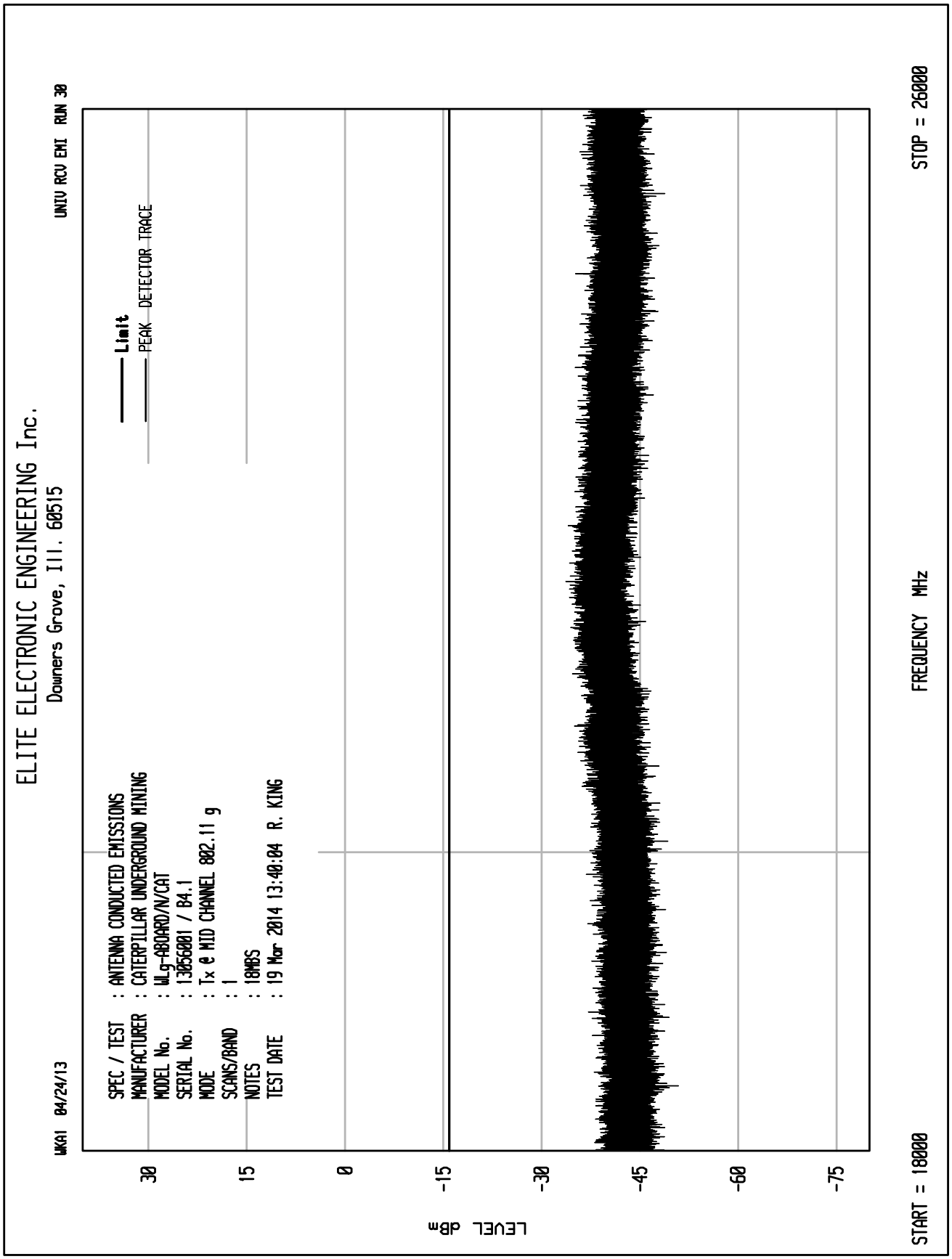
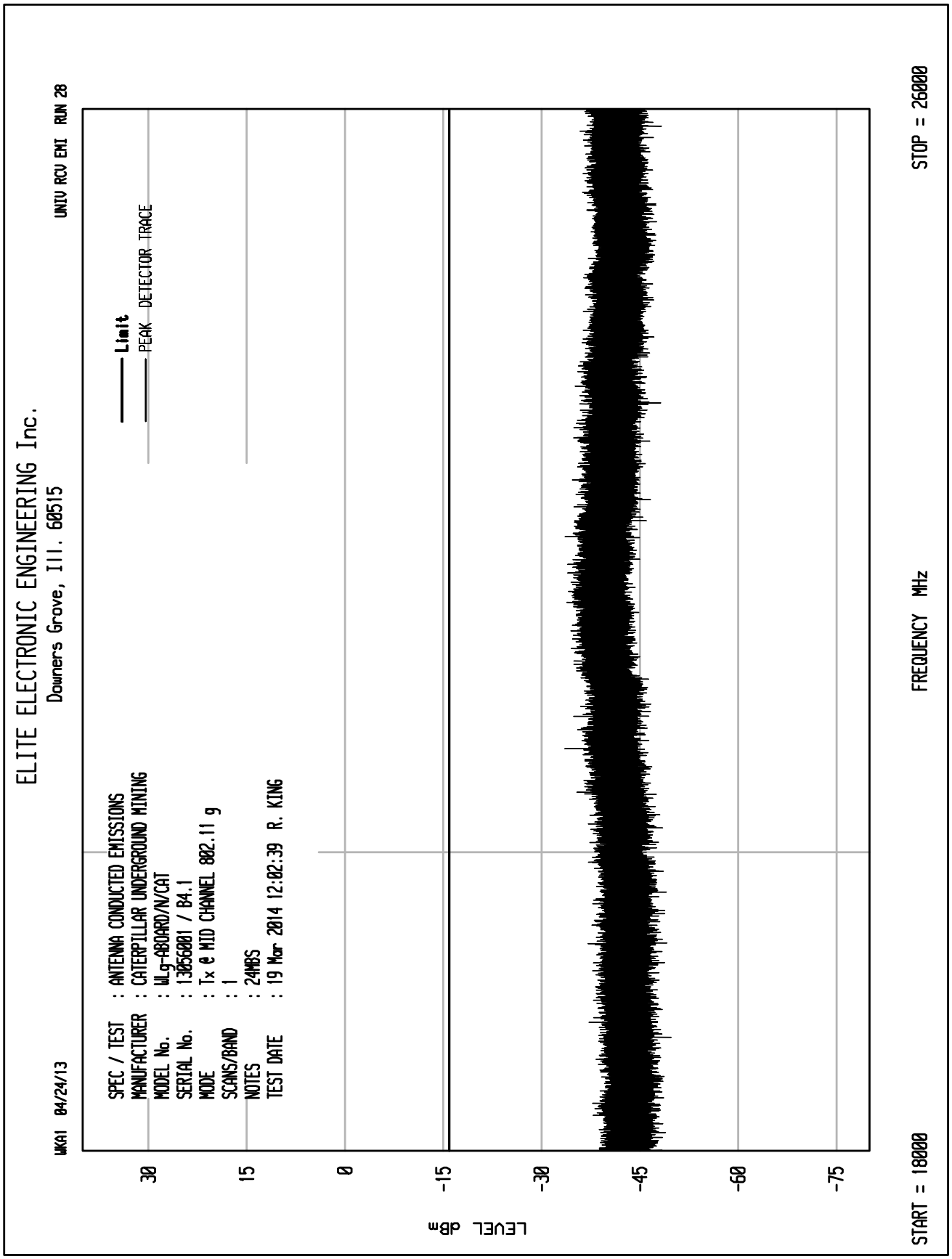

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 54MBS
TEST DATE : 18 Mar 2014 14:10:41 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

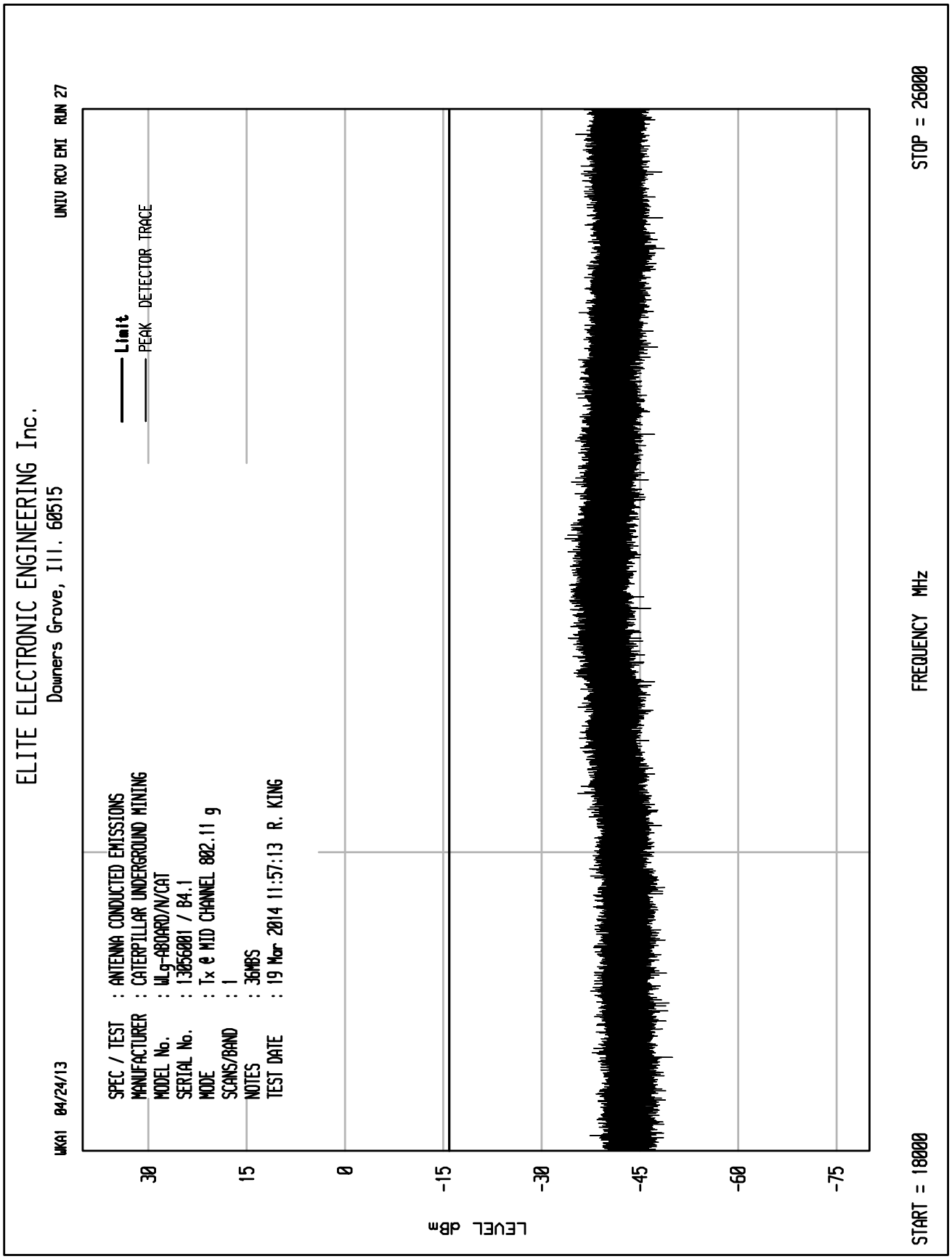

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 33
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 6MBS
TEST DATE : 19 Mar 2014 13:57:51 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

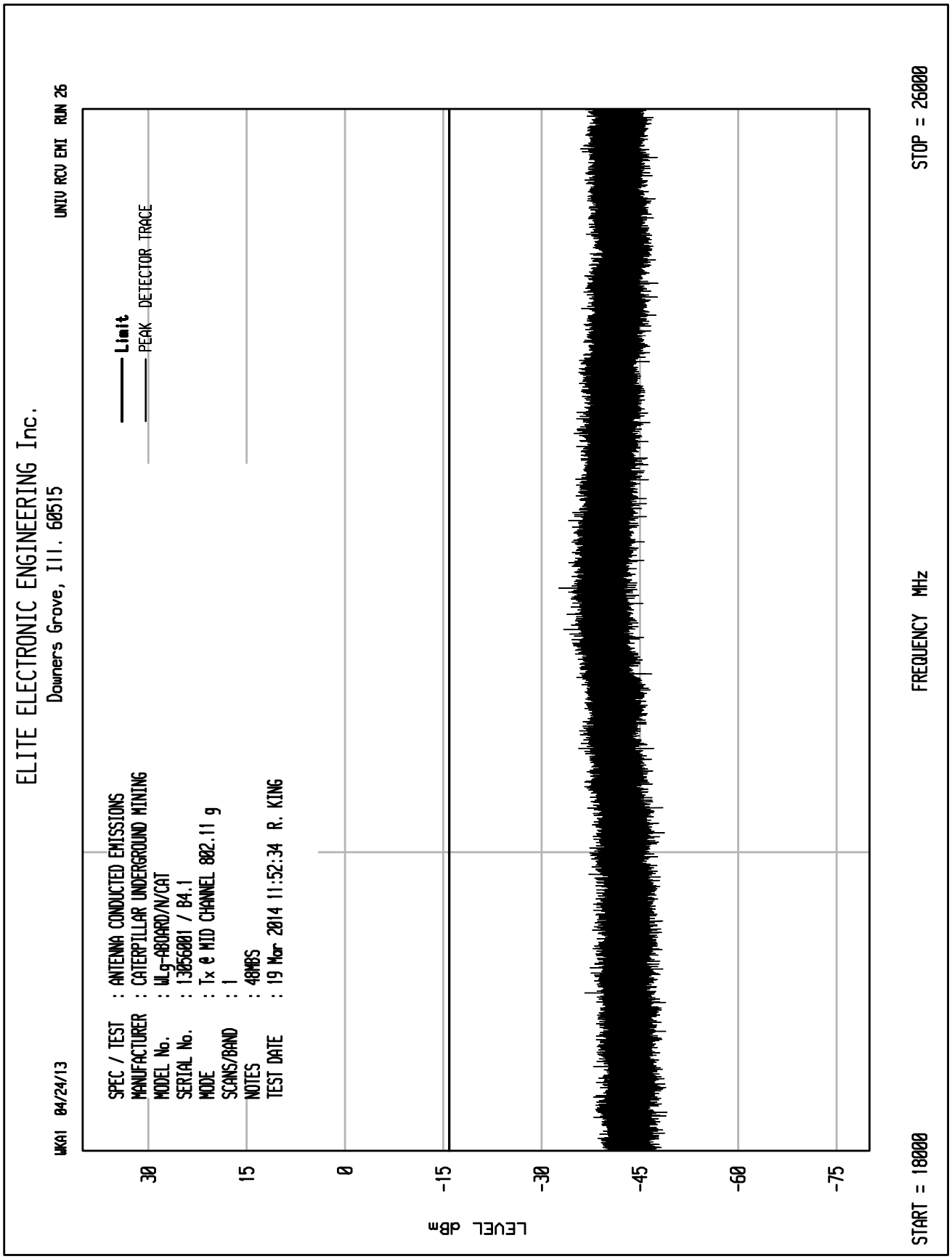

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 32
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 9MBS
TEST DATE : 19 Mar 2014 13:53:26 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

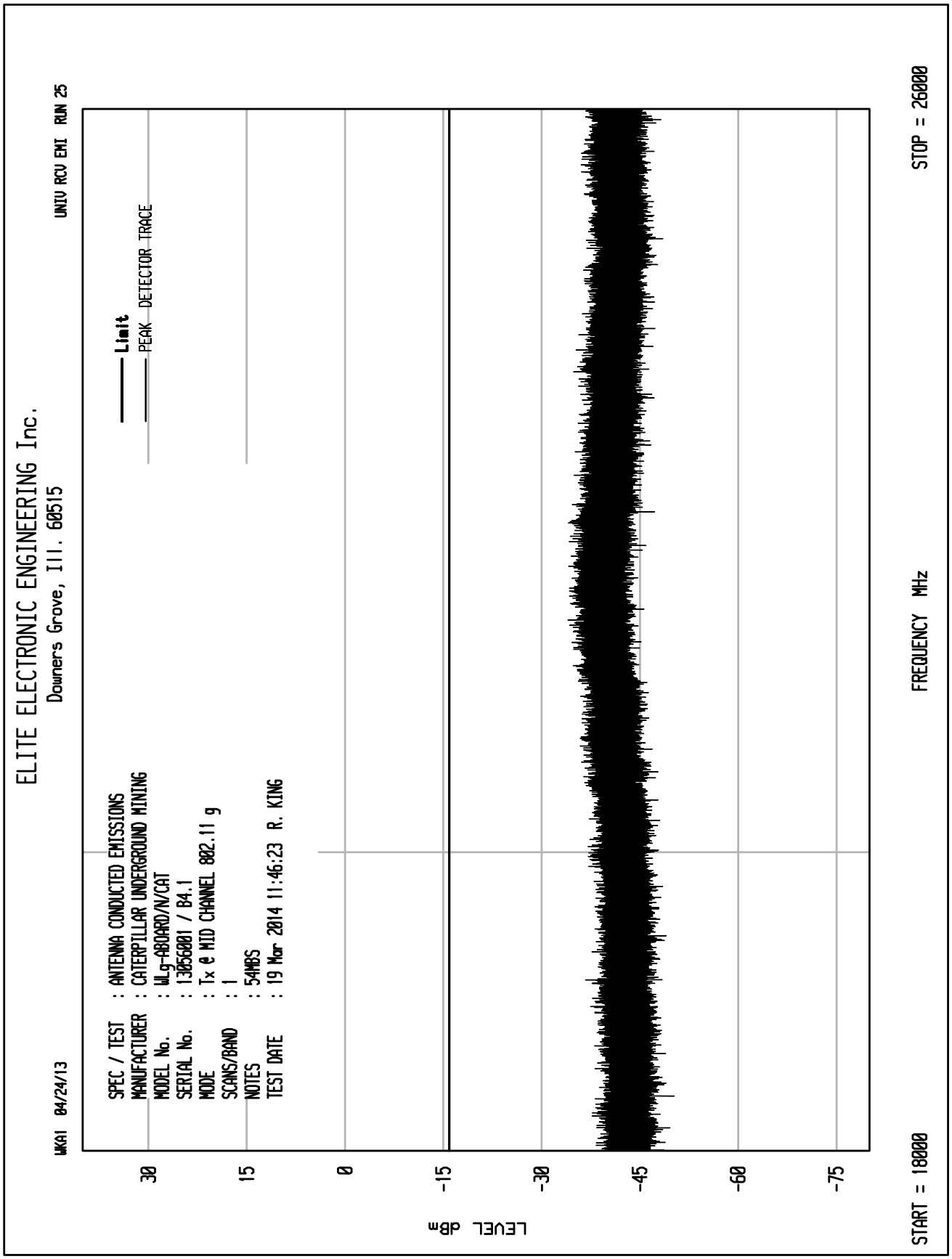

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 31
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 12MBS
TEST DATE : 19 Mar 2014 13:44:35 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

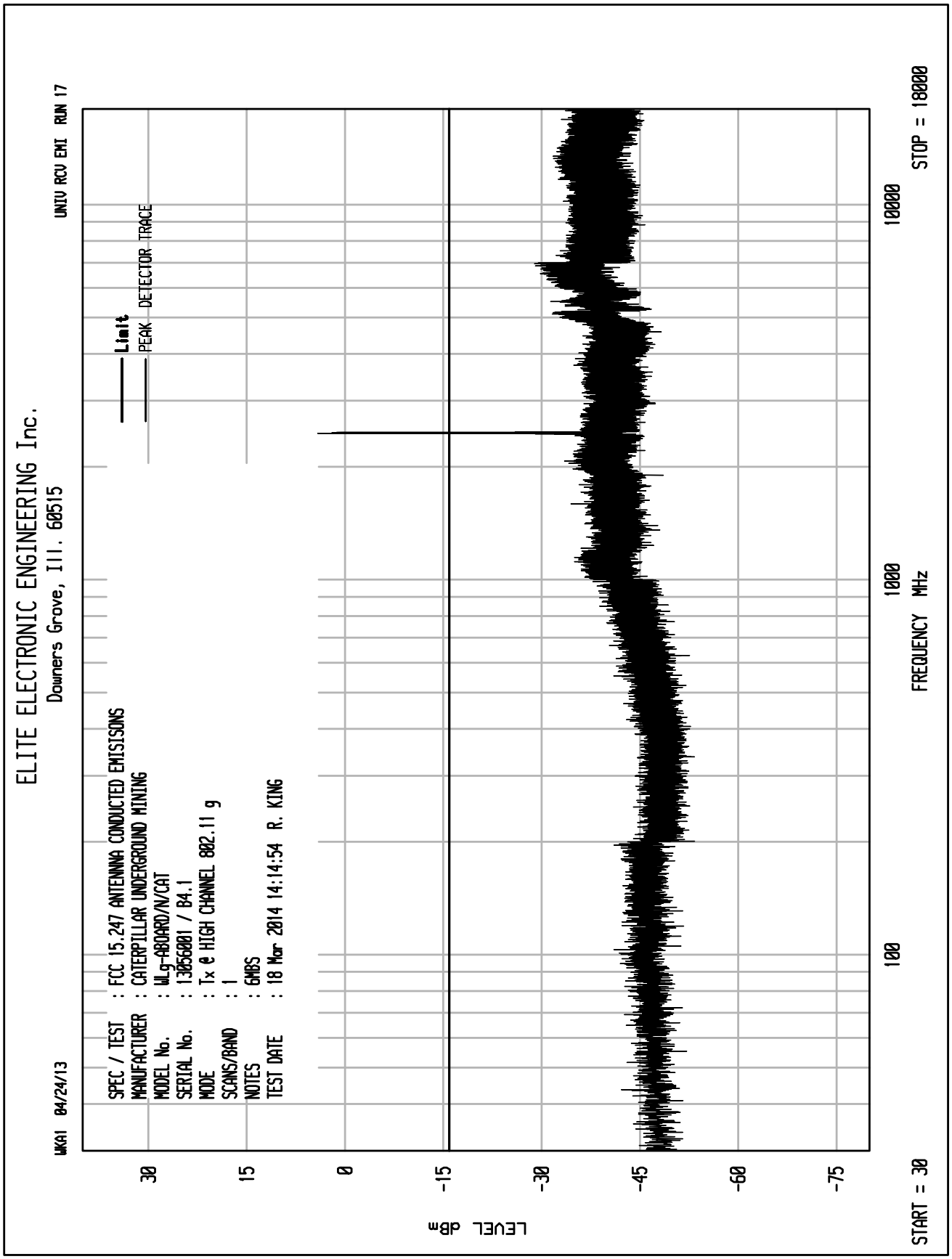

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 30
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 10MBS
TEST DATE : 19 Mar 2014 13:40:04 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

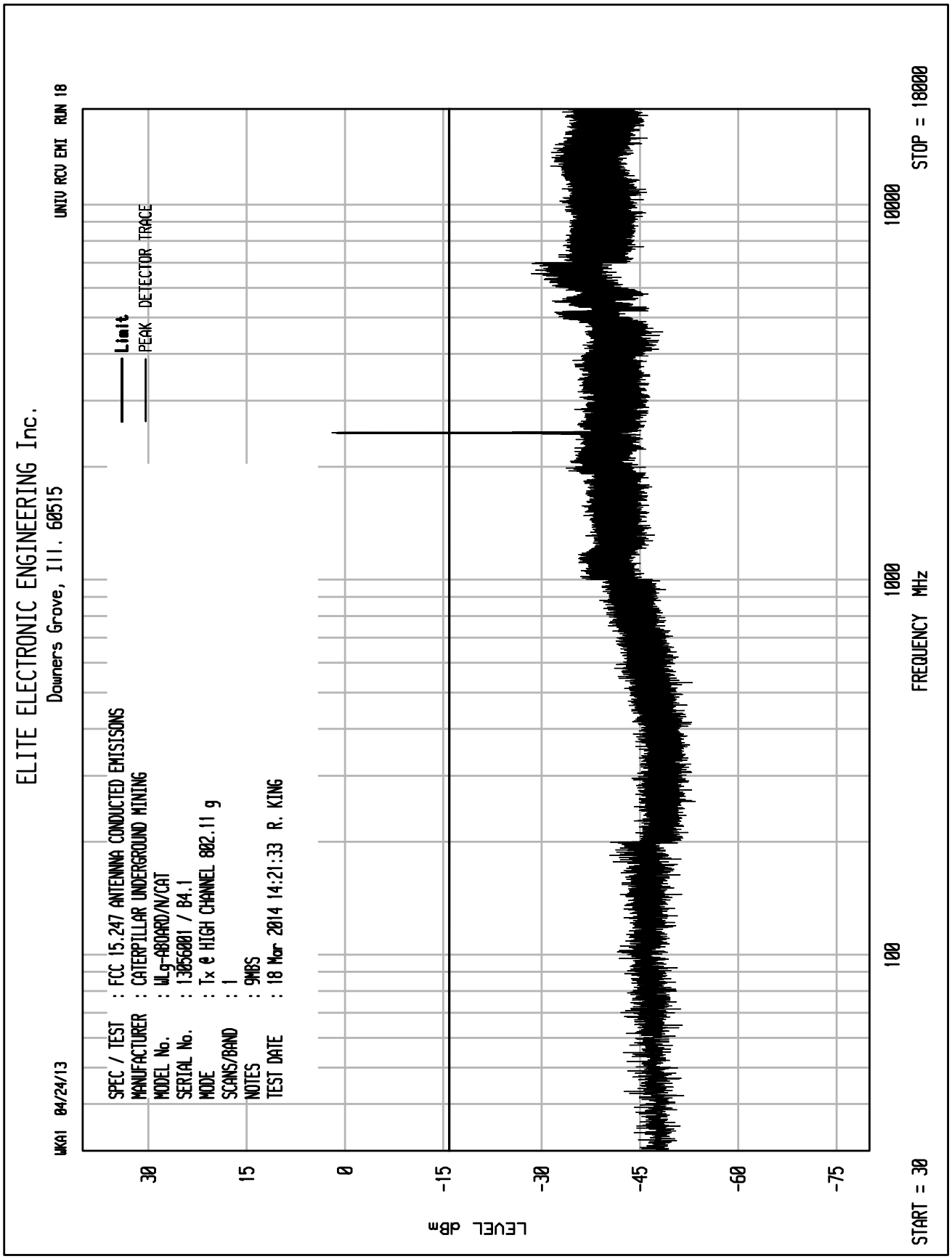

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 28
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 24MBS
TEST DATE : 19 Mar 2014 12:02:39 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

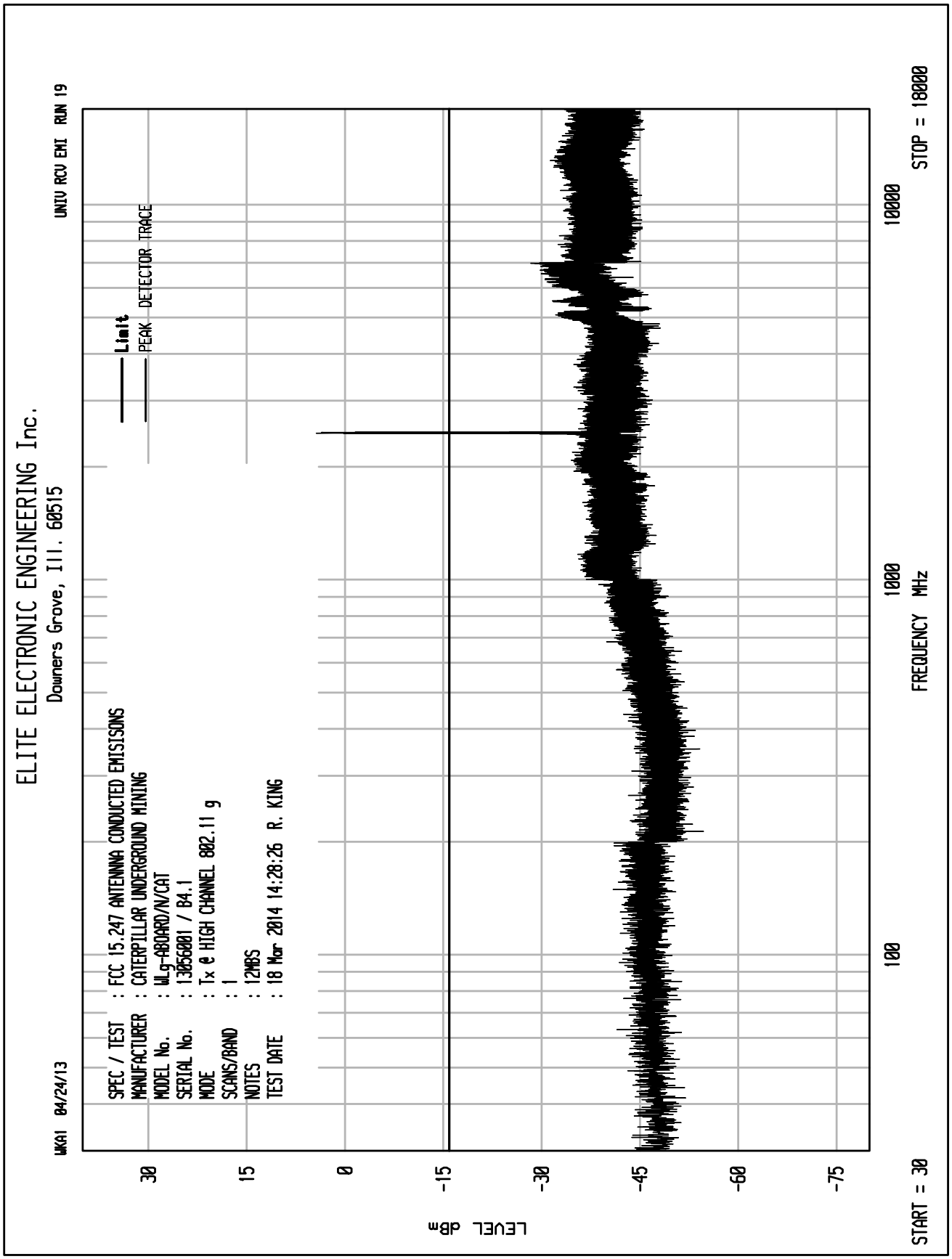

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 27
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 36MBS
TEST DATE : 19 Mar 2014 11:57:13 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

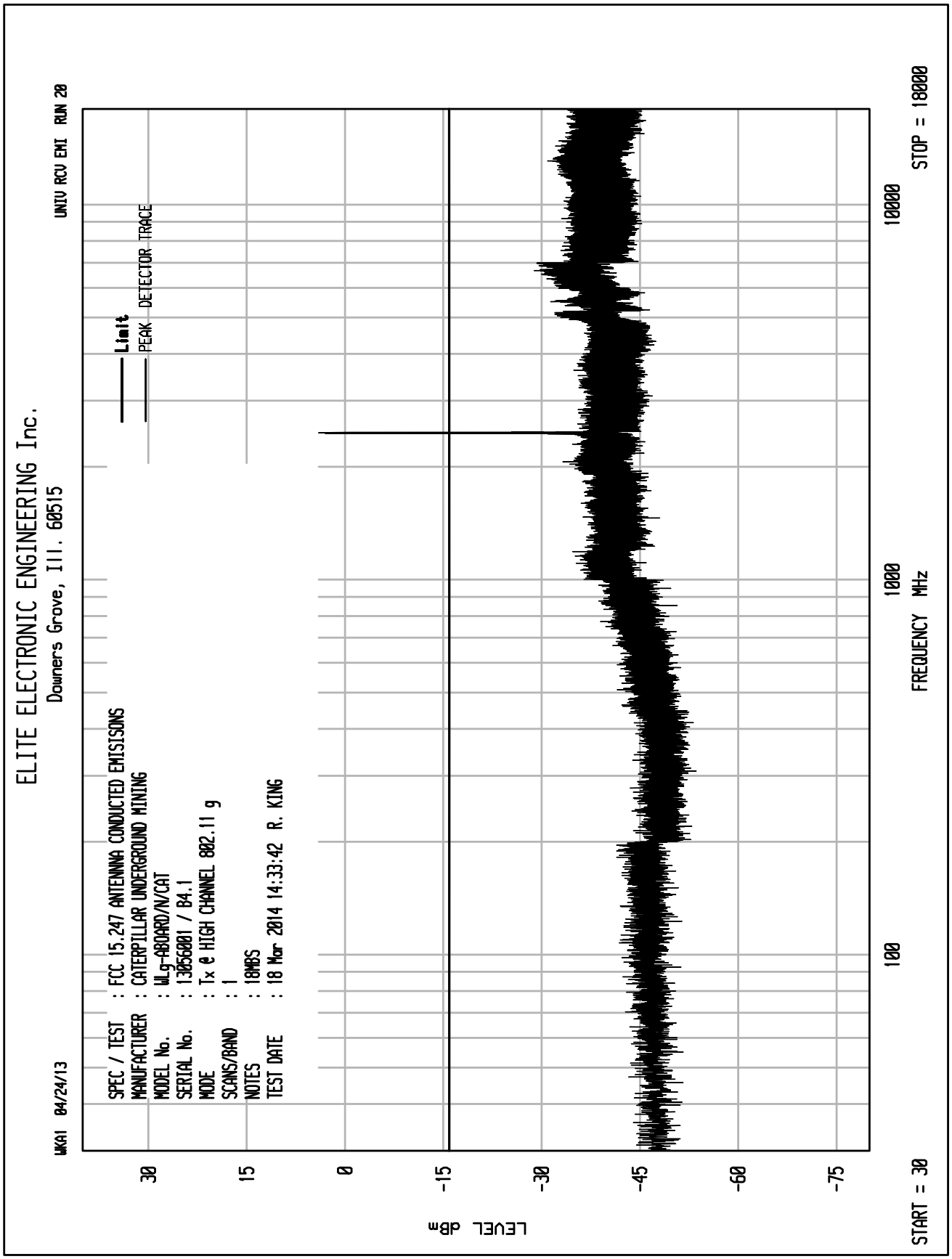

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 26
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 40MBS
TEST DATE : 19 Mar 2014 11:52:34 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

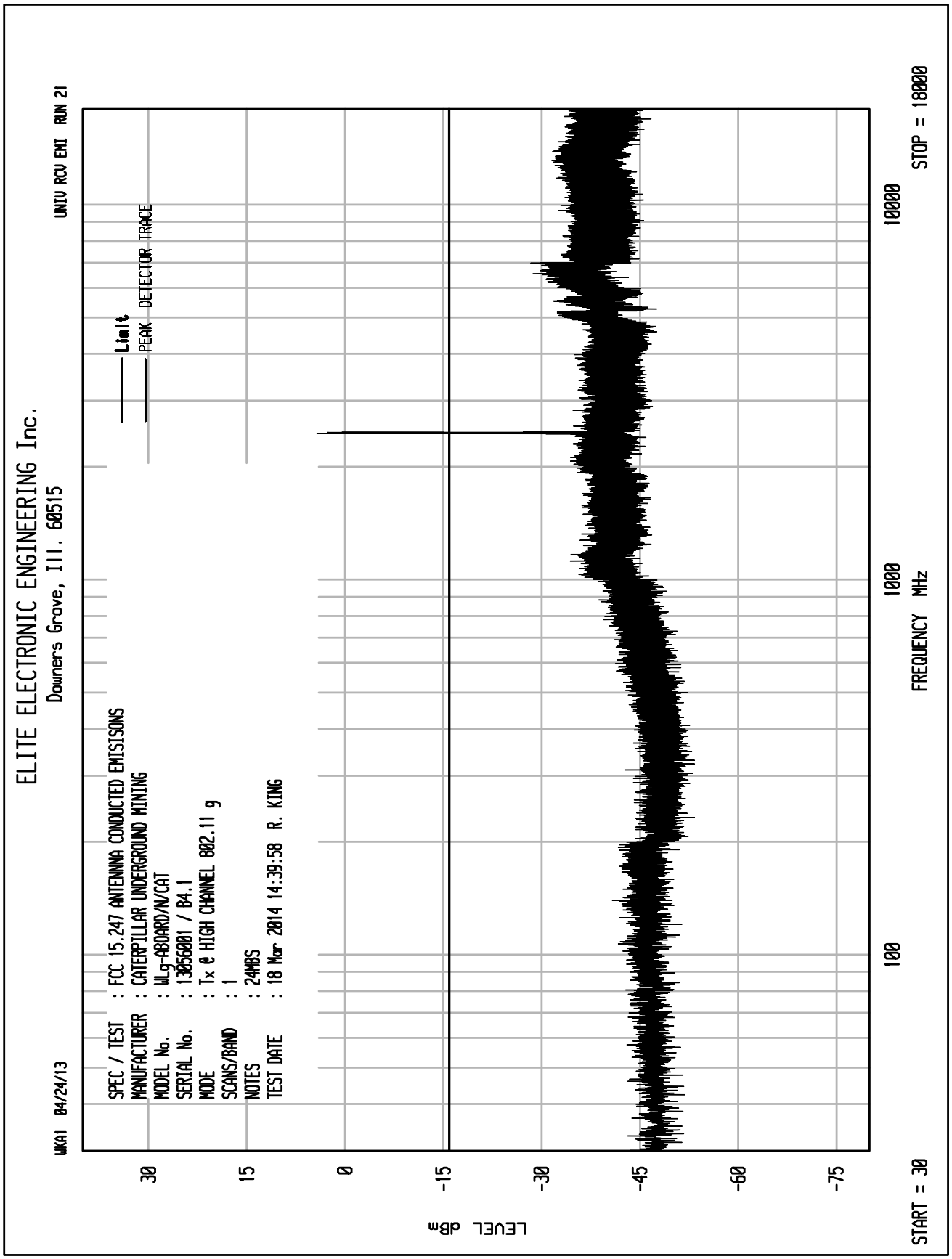

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 25
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ MID CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 54MBS
TEST DATE : 19 Mar 2014 11:46:23 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

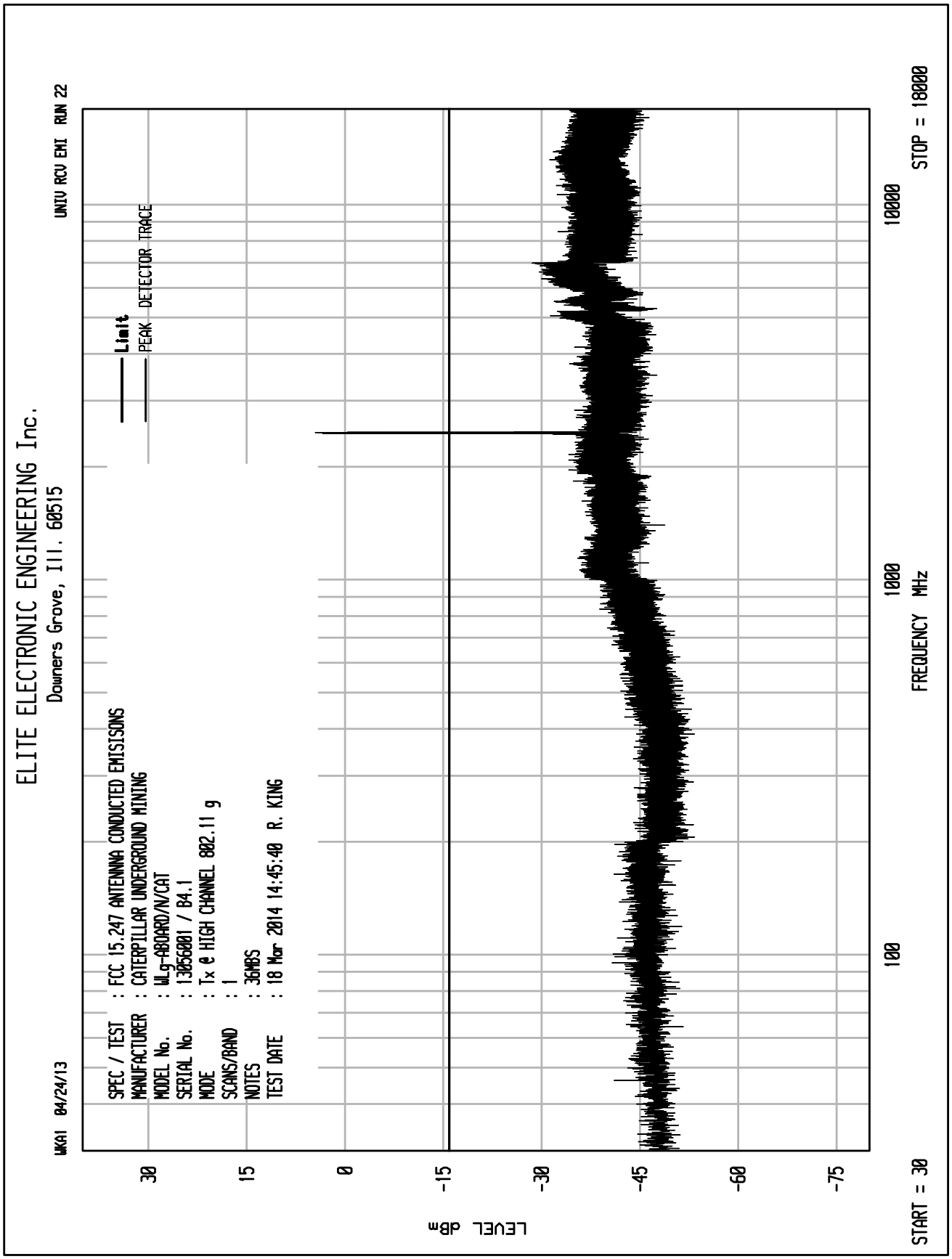

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 17
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 6MBS
TEST DATE : 18 Mar 2014 14:14:54 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

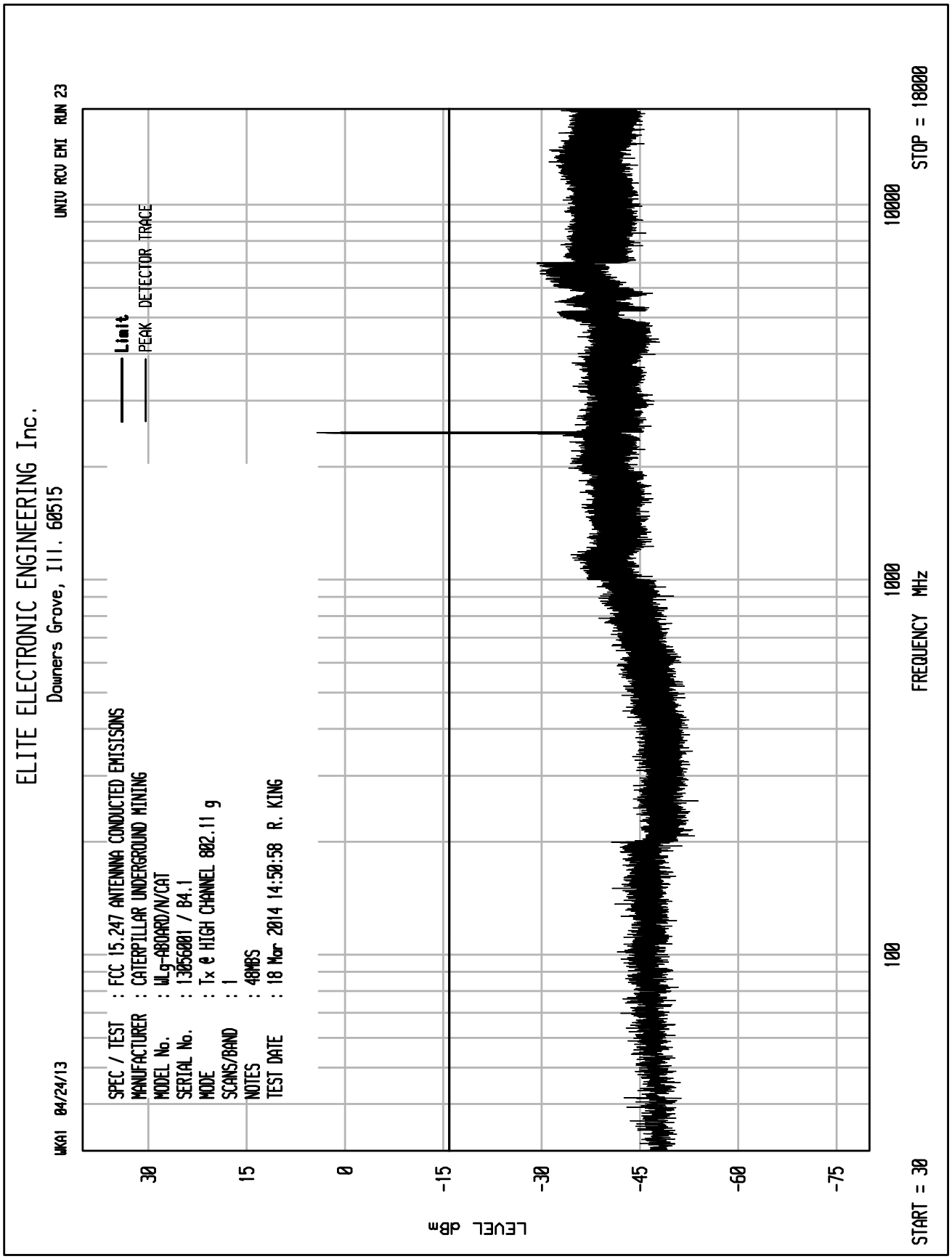

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 18
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 9MBS
TEST DATE : 18 Mar 2014 14:21:33 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

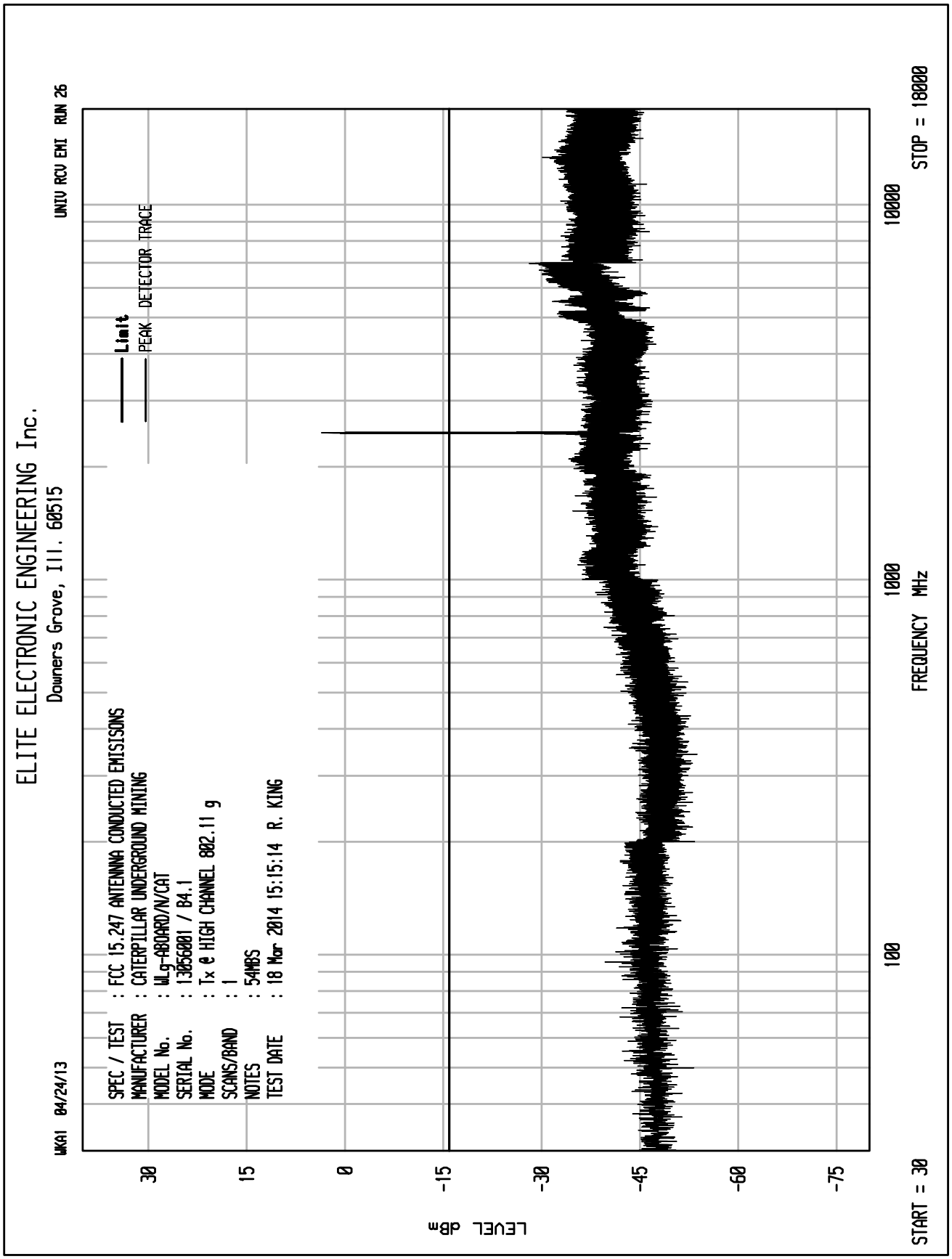

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 19
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 12MBS
TEST DATE : 18 Mar 2014 14:28:26 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

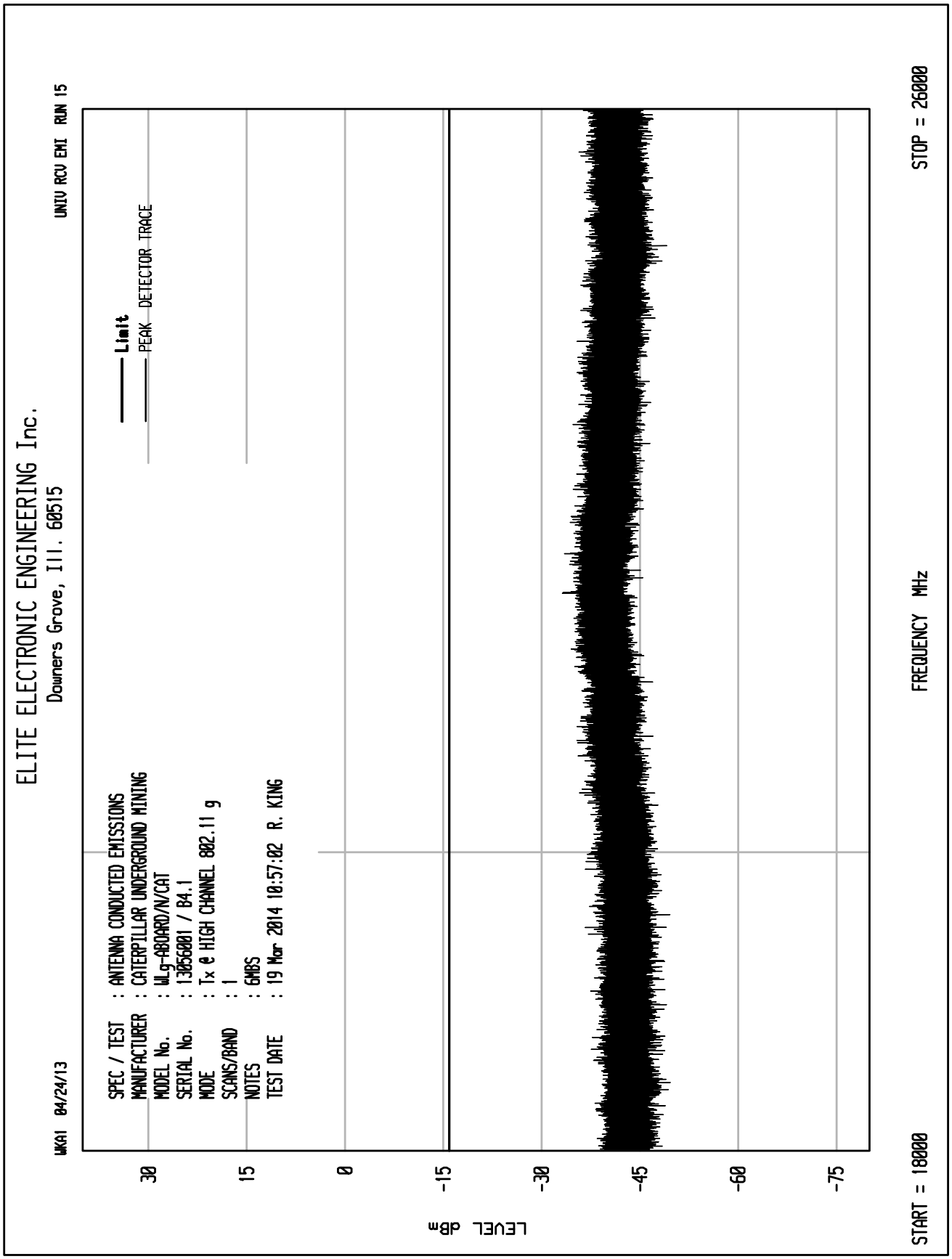

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 20
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 10MBS
TEST DATE : 18 Mar 2014 14:33:42 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

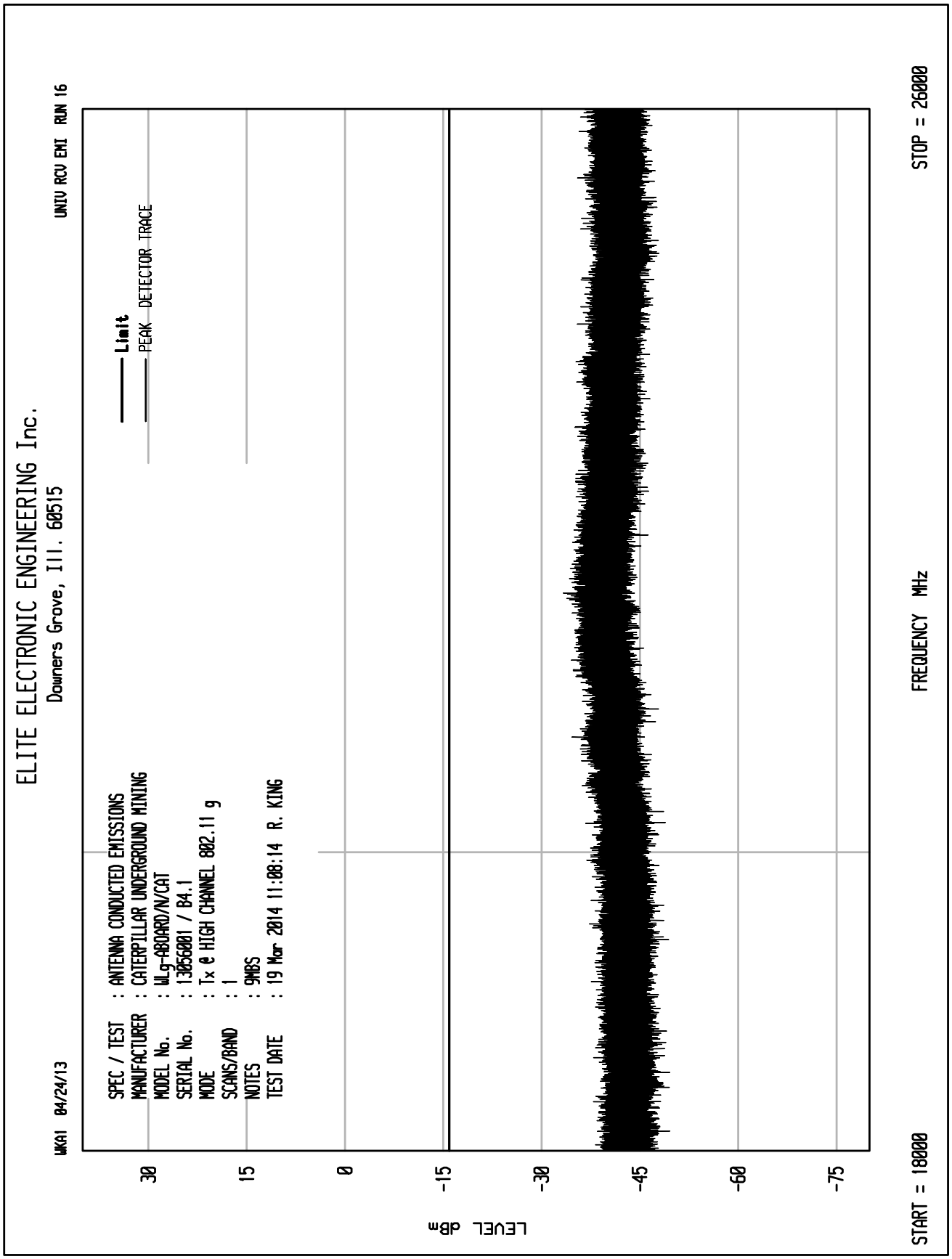

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 21
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 24MBS
TEST DATE : 18 Mar 2014 14:39:58 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

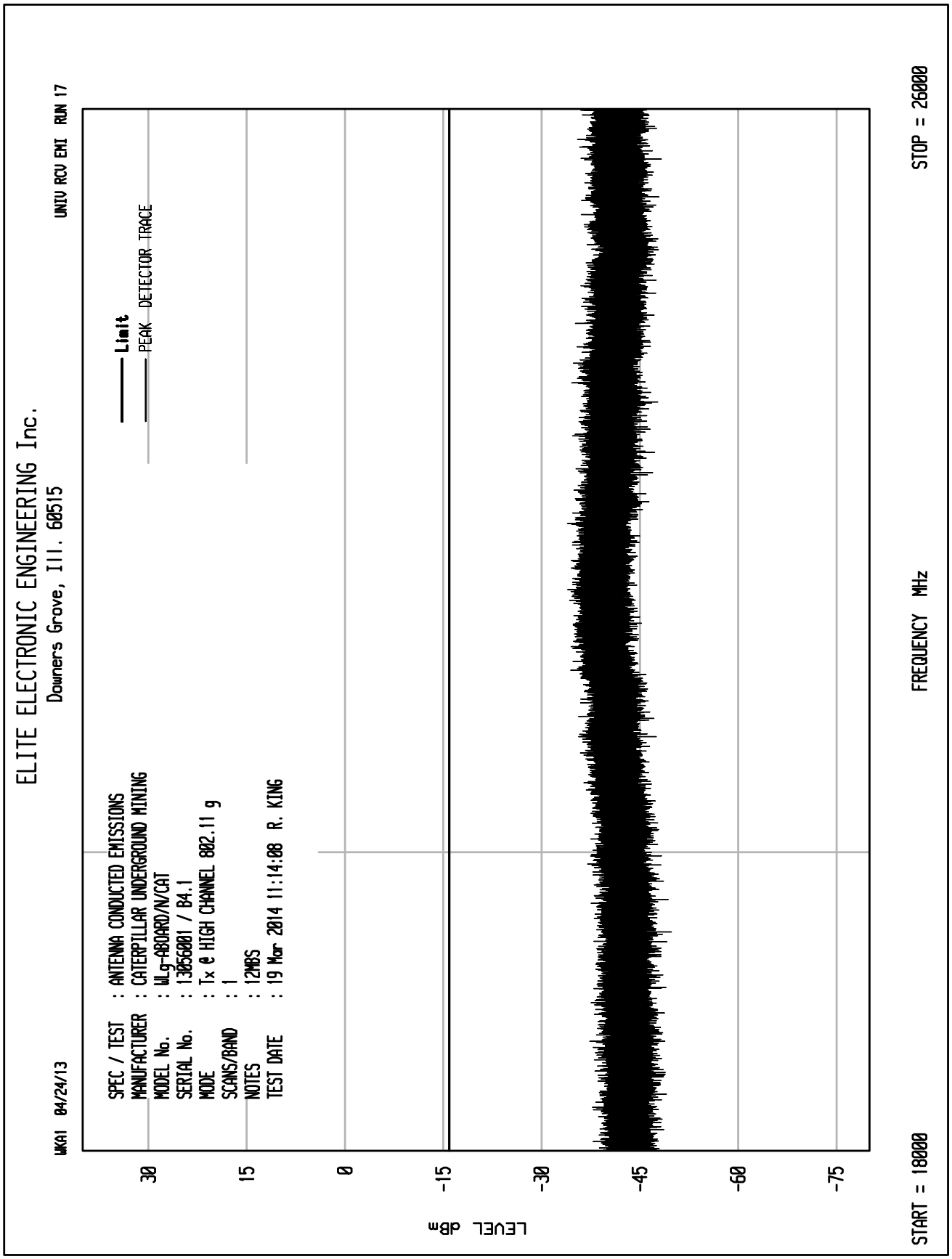

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 22
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 36MBS
TEST DATE : 18 Mar 2014 14:45:40 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

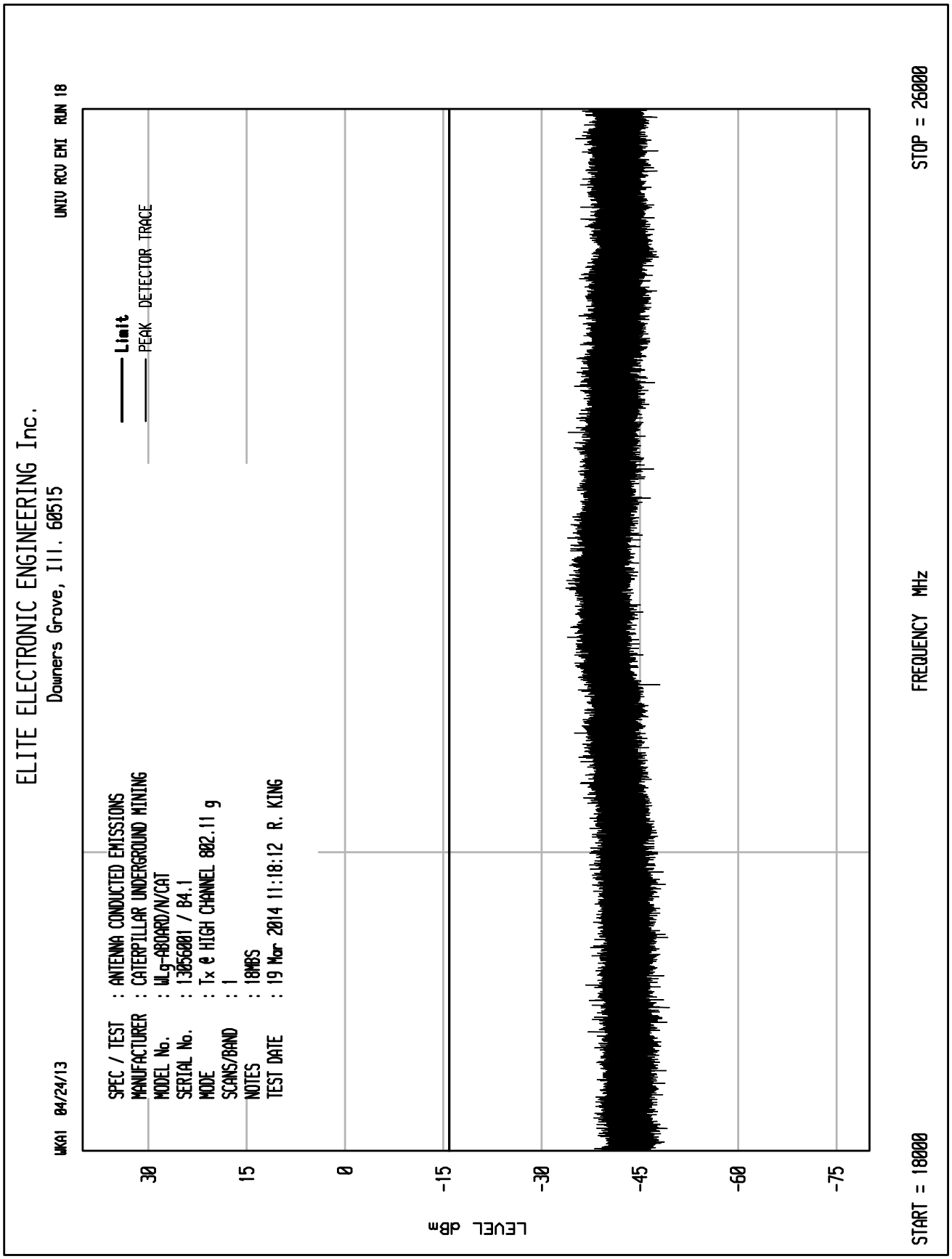

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 23
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 40MBS
TEST DATE : 18 Mar 2014 14:50:58 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

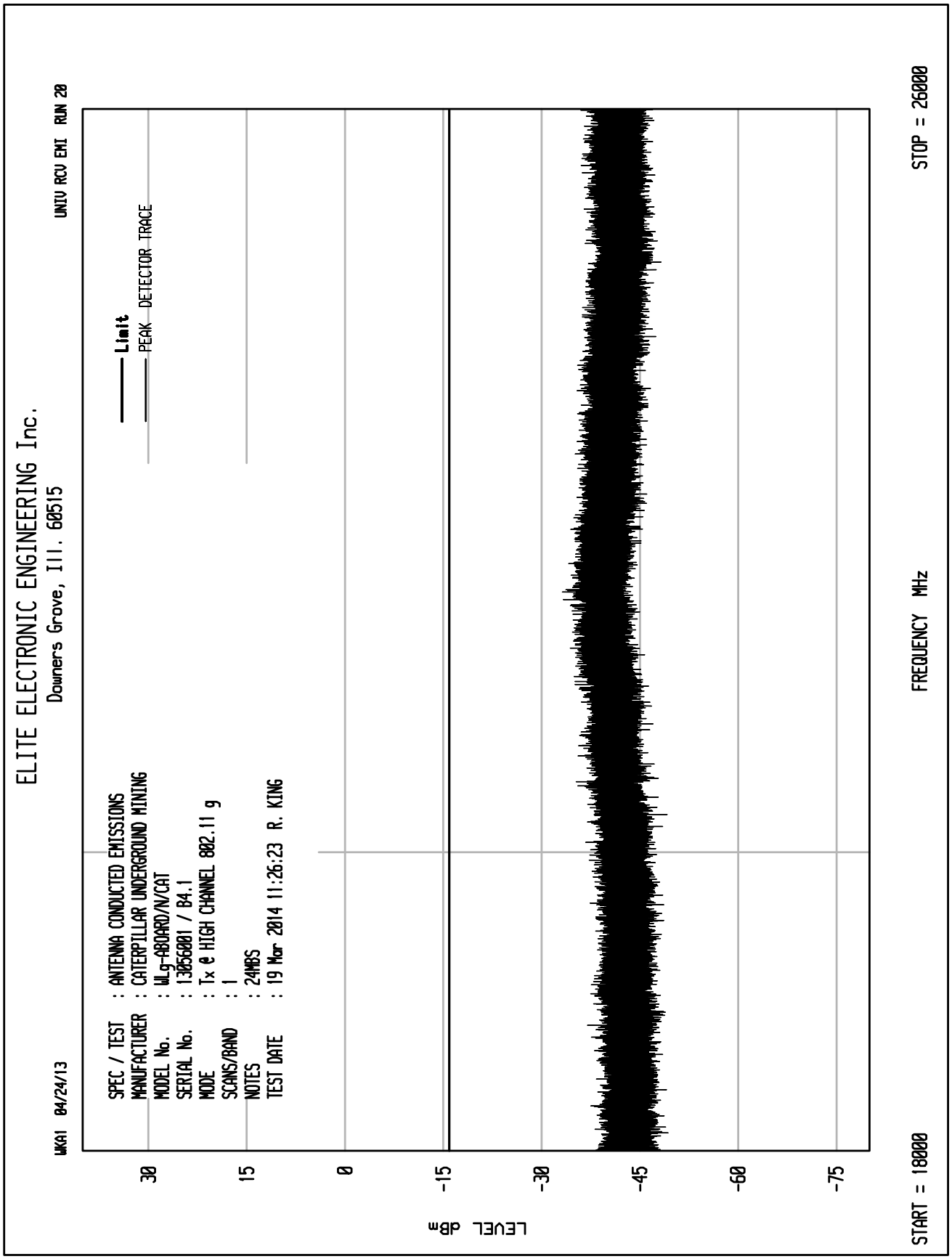

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 26
WKAI 04/24/13
SPEC / TEST : FCC 15.247 ANTENNNA CONDUCTED EMISIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 54MBS
TEST DATE : 18 Mar 2014 15:15:14 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 30
100
1000
10000
STOP = 18000
FREQUENCY MHz

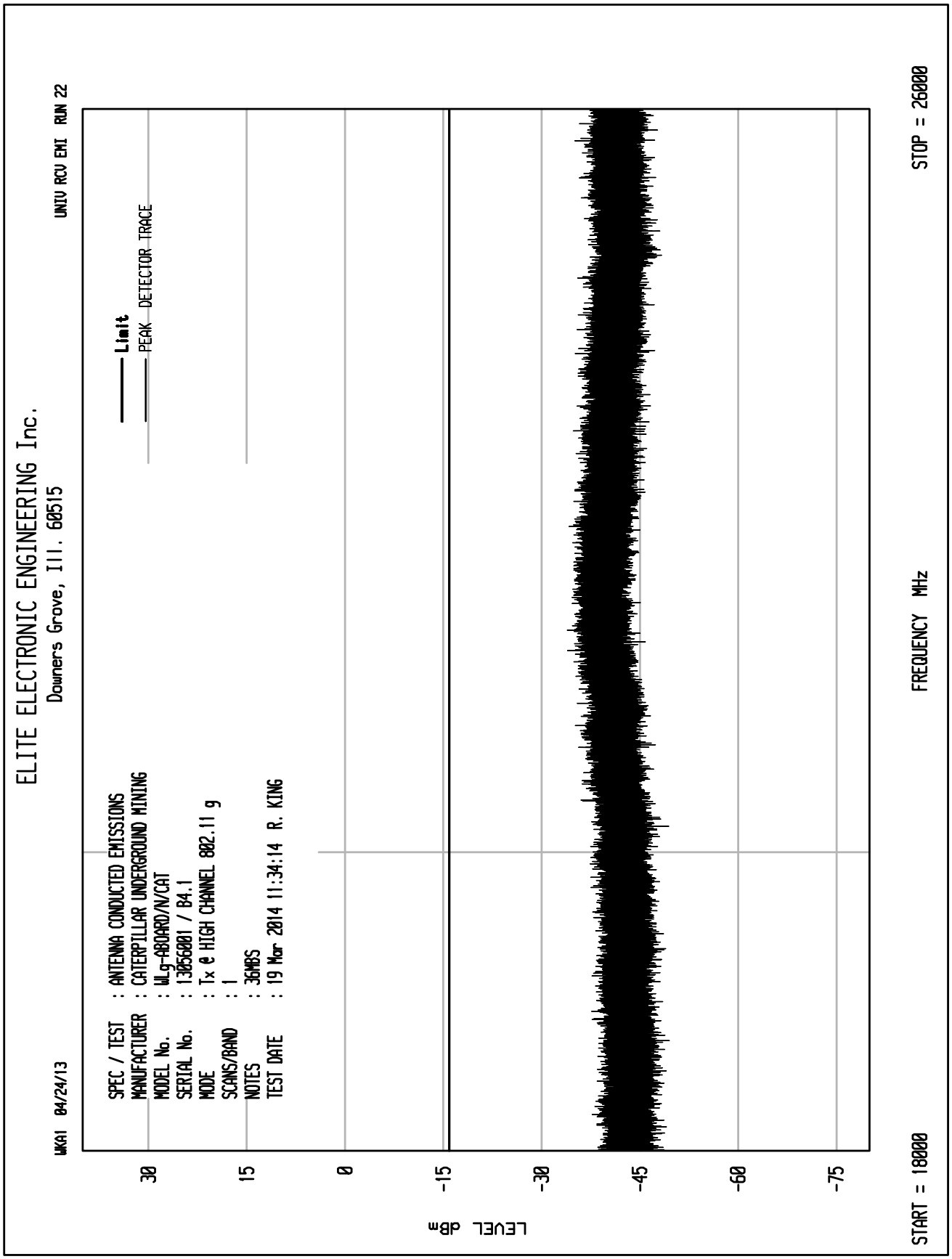

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 15
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : GMBS
TEST DATE : 19 Mar 2014 10:57:02 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

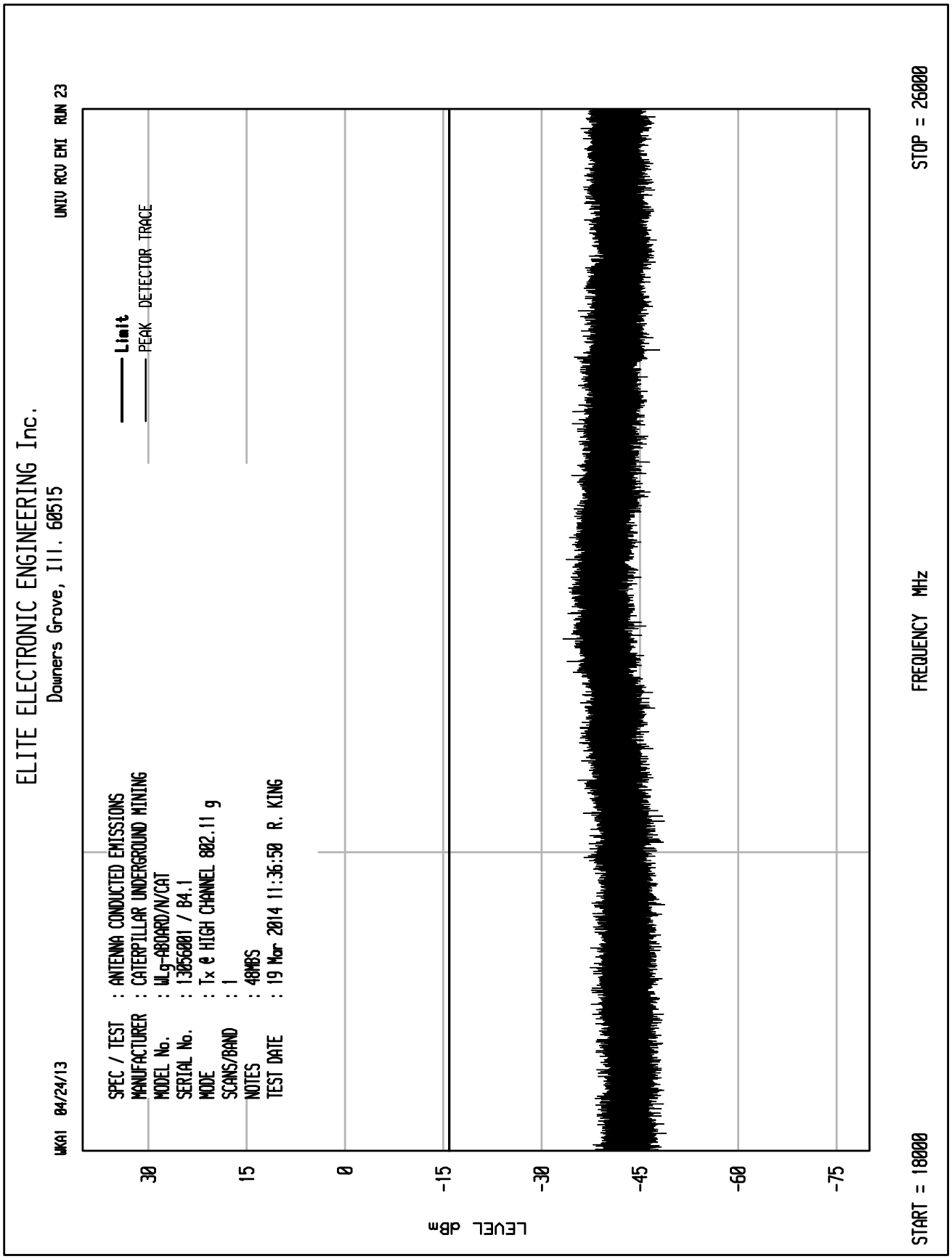

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 9MBS
TEST DATE : 19 Mar 2014 11:08:14 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

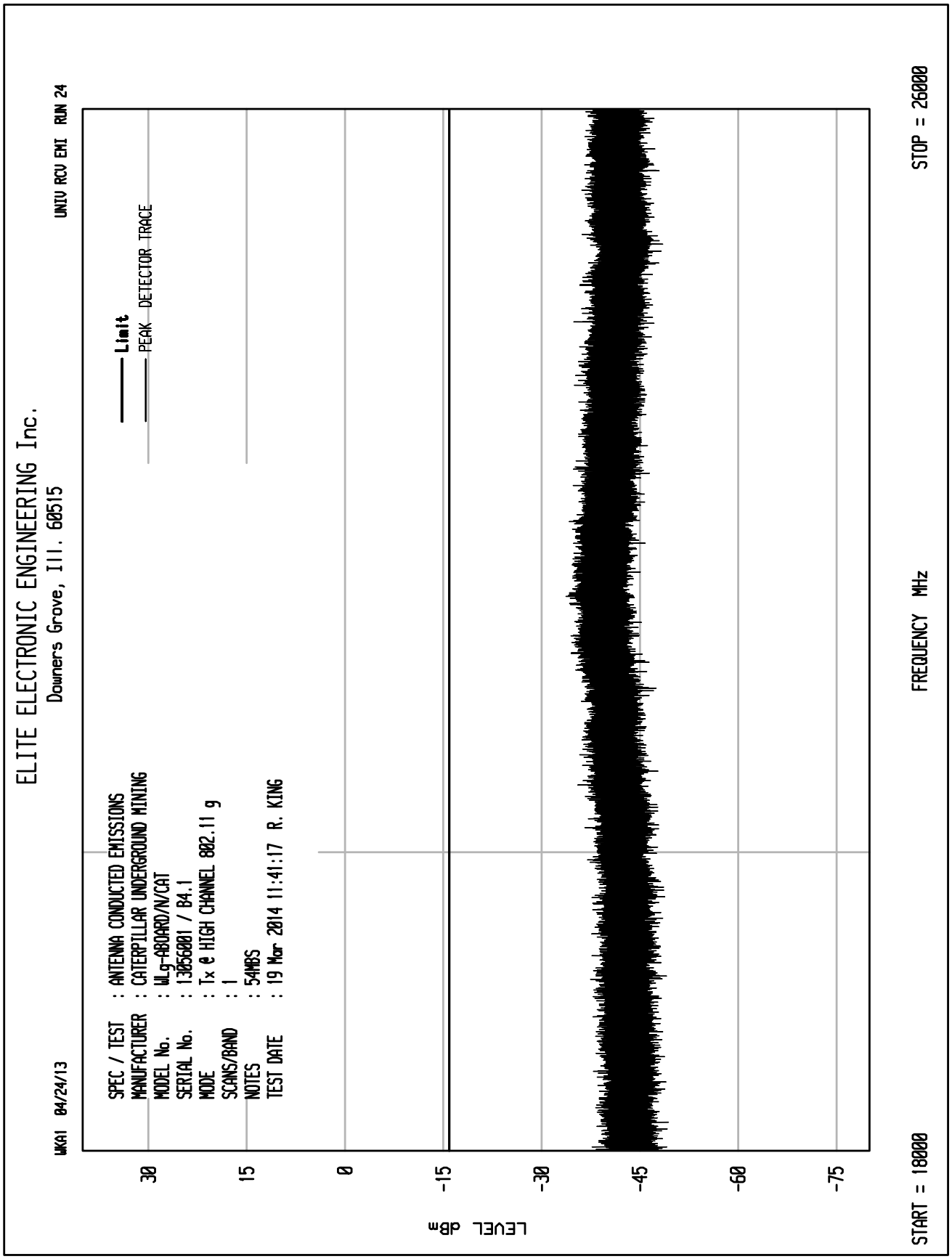

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 17
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 12MBS
TEST DATE : 19 Mar 2014 11:14:08 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

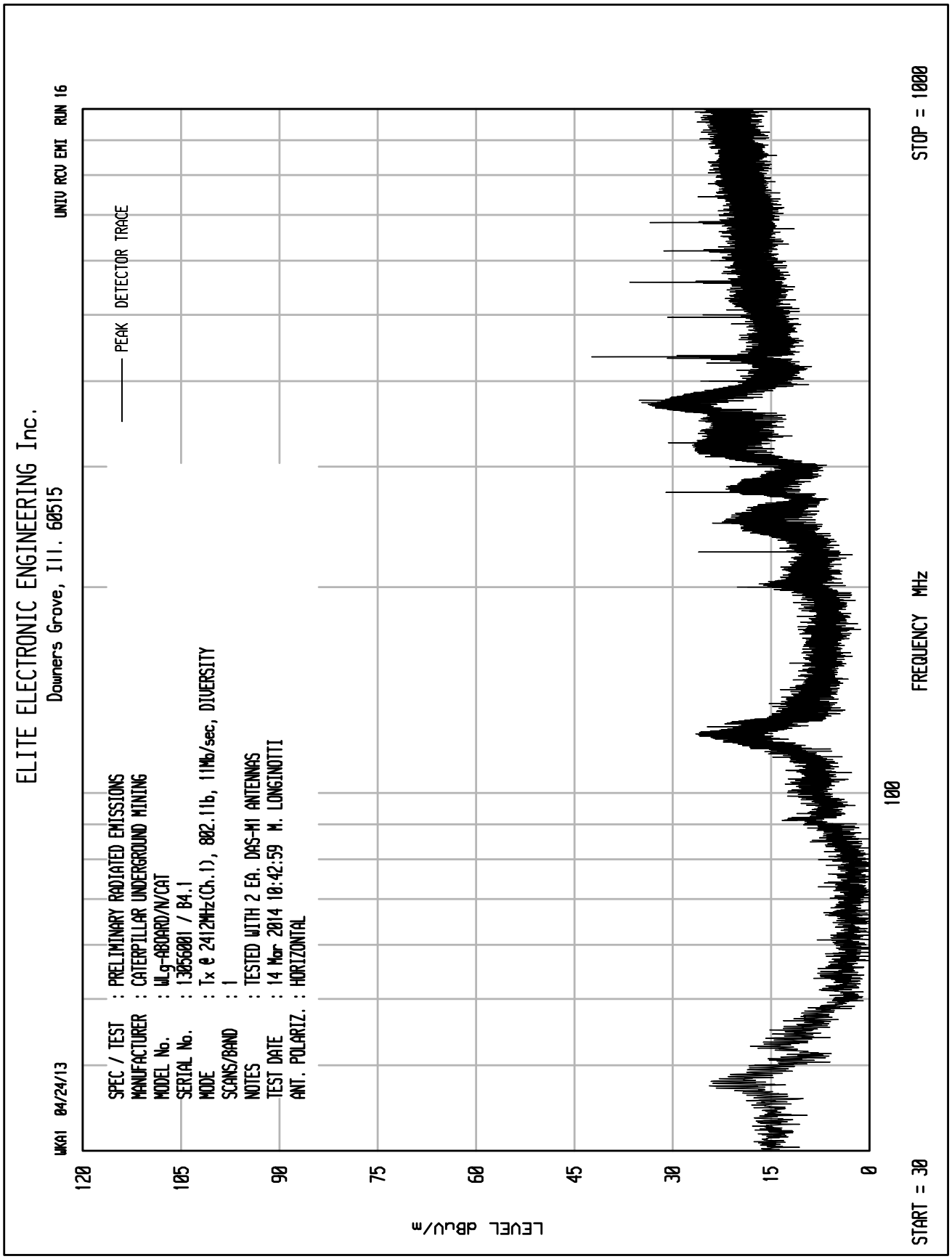

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 18
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 18MBS
TEST DATE : 19 Mar 2014 11:18:12 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

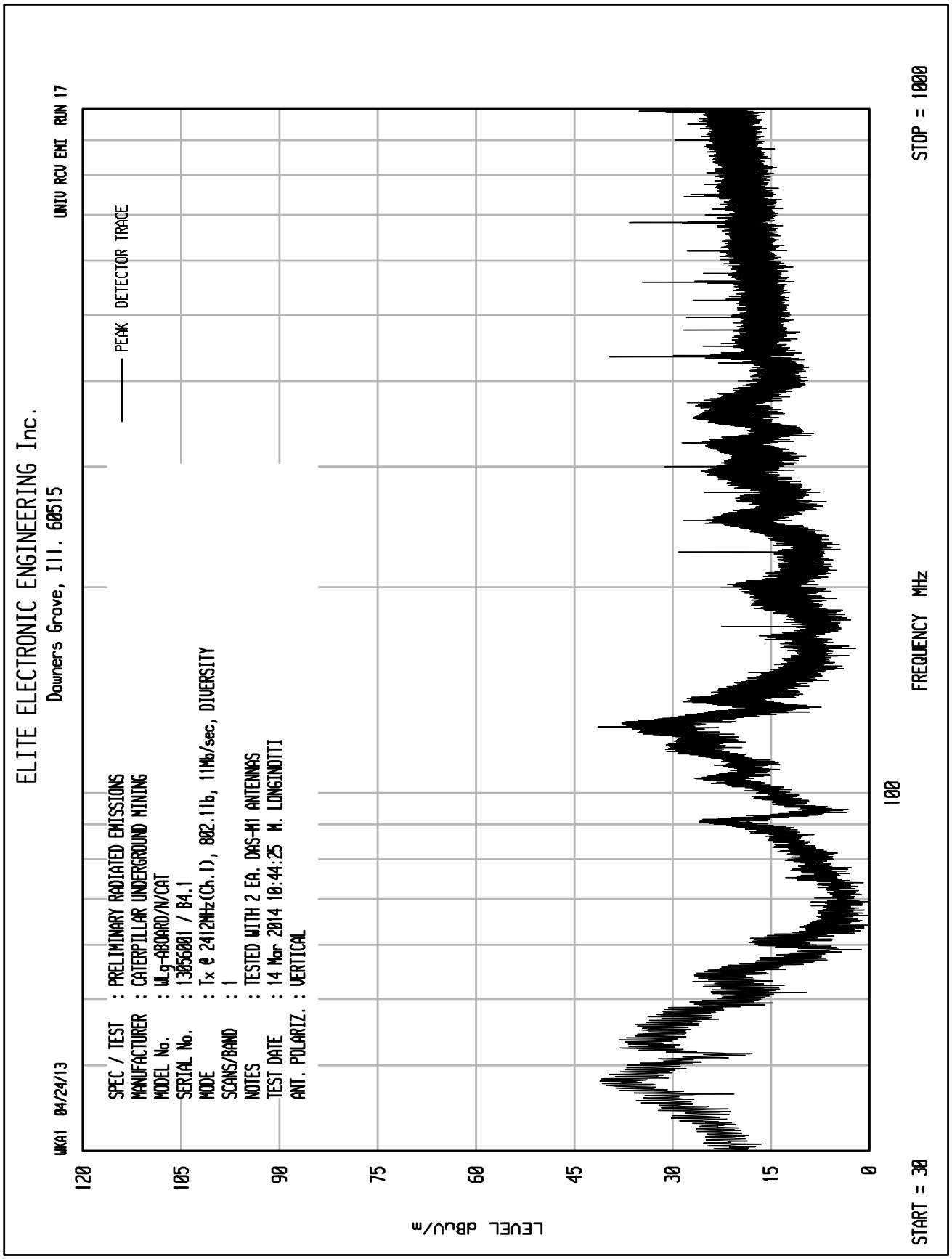

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 20
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 24MBS
TEST DATE : 19 Mar 2014 11:26:23 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

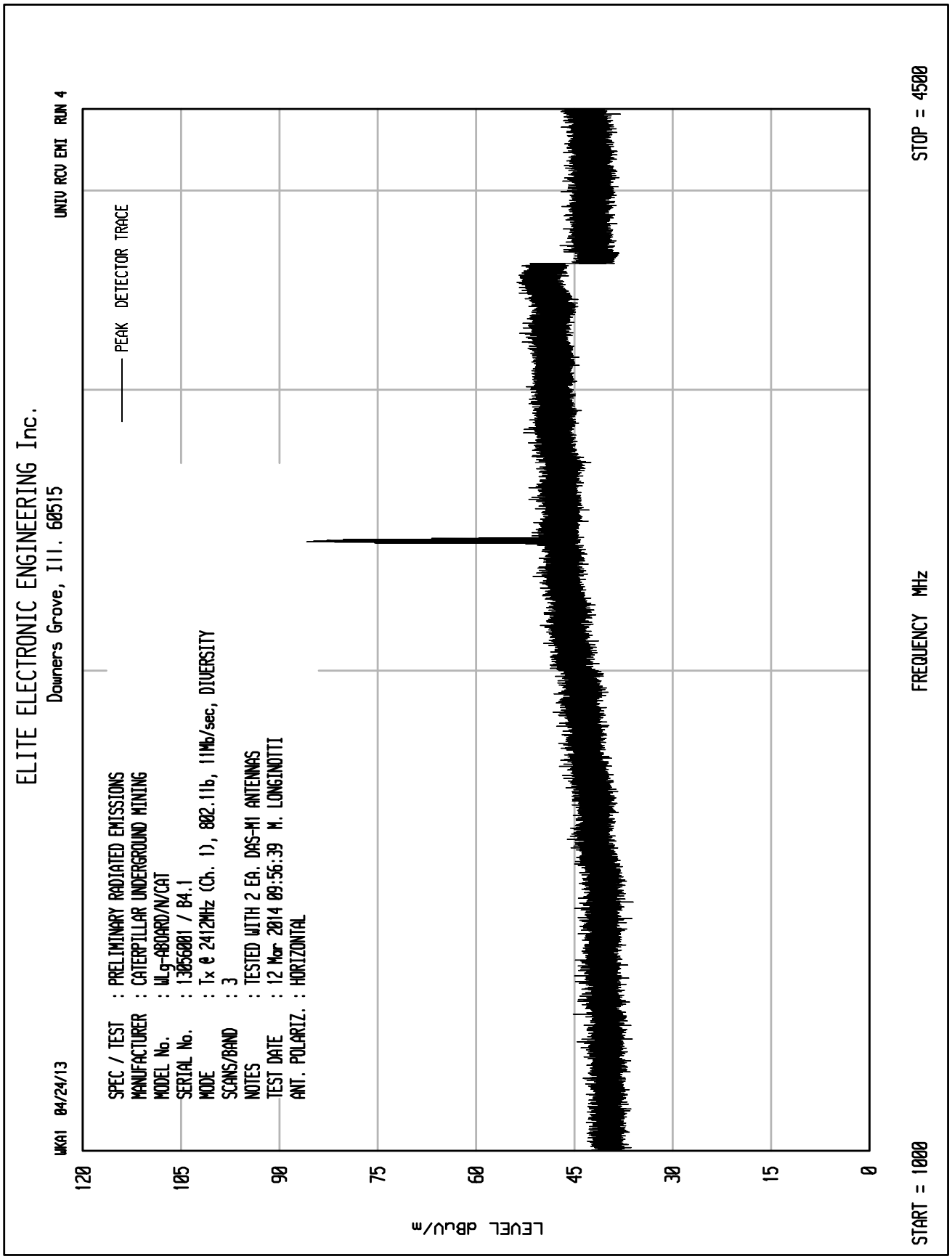

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 22
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 36MBS
TEST DATE : 19 Mar 2014 11:34:14 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

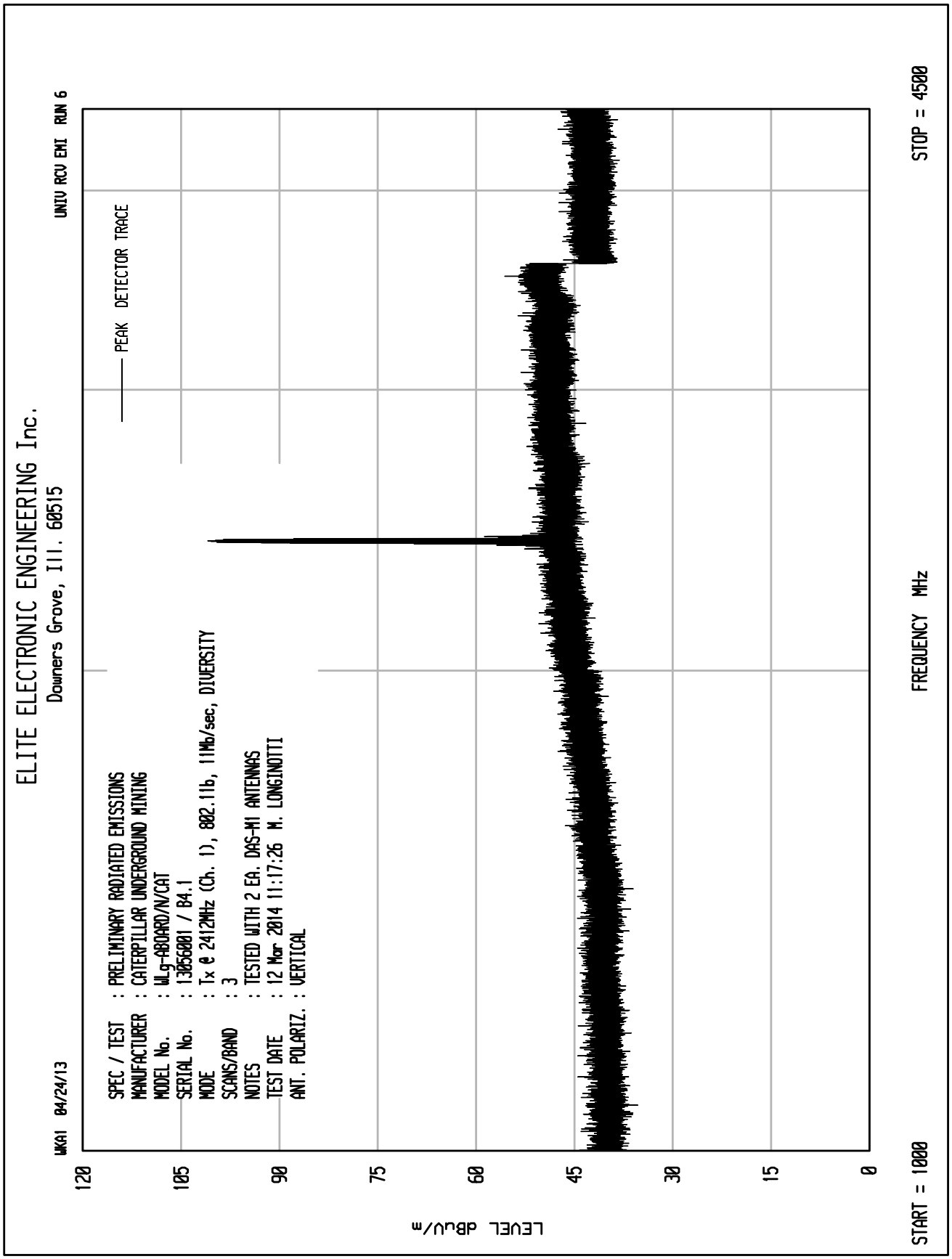

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 23
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 40MBS
TEST DATE : 19 Mar 2014 11:36:50 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

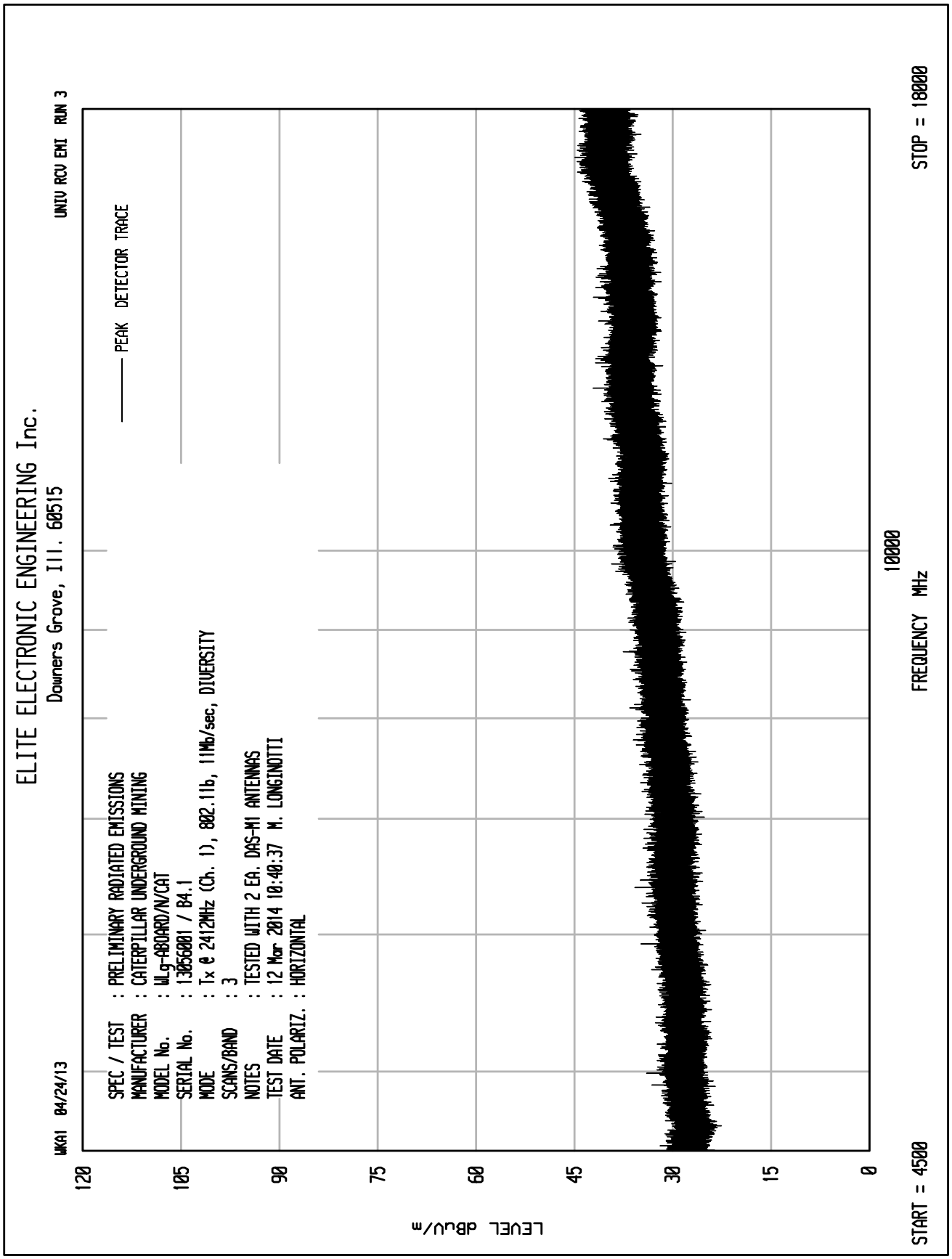

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 24
WKAI 04/24/13
SPEC / TEST : ANTENNA CONDUCTED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ HIGH CHANNEL 802.11 g
SCANS/BAND : 1
NOTES : 54MBS
TEST DATE : 19 Mar 2014 11:41:17 R. KING
Limit
PEAK DETECTOR TRACE
LEVEL dBm
30
15
0
-15
-30
-45
-60
-75
START = 18000
FREQUENCY MHz
STOP = 26000

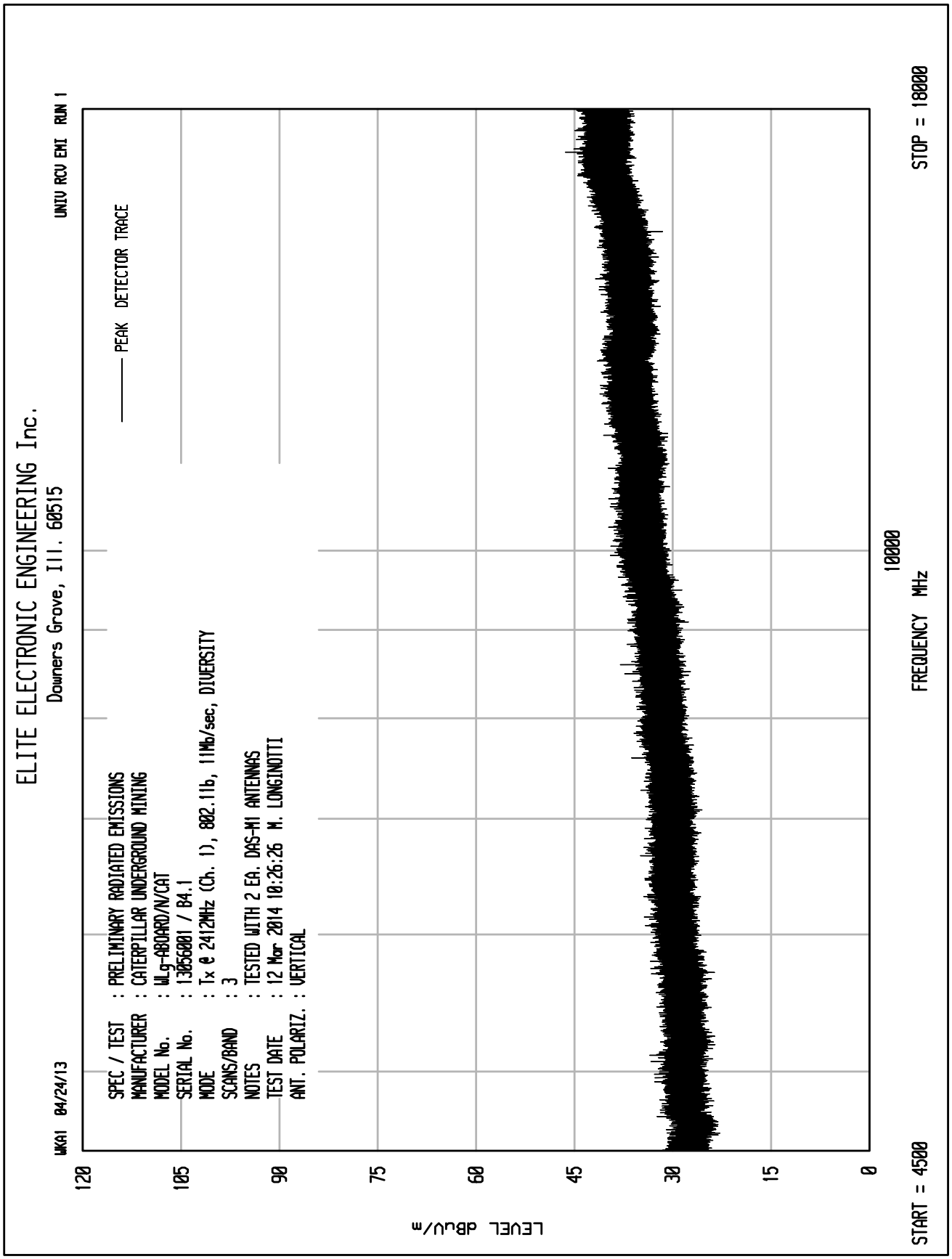

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 10:42:59 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

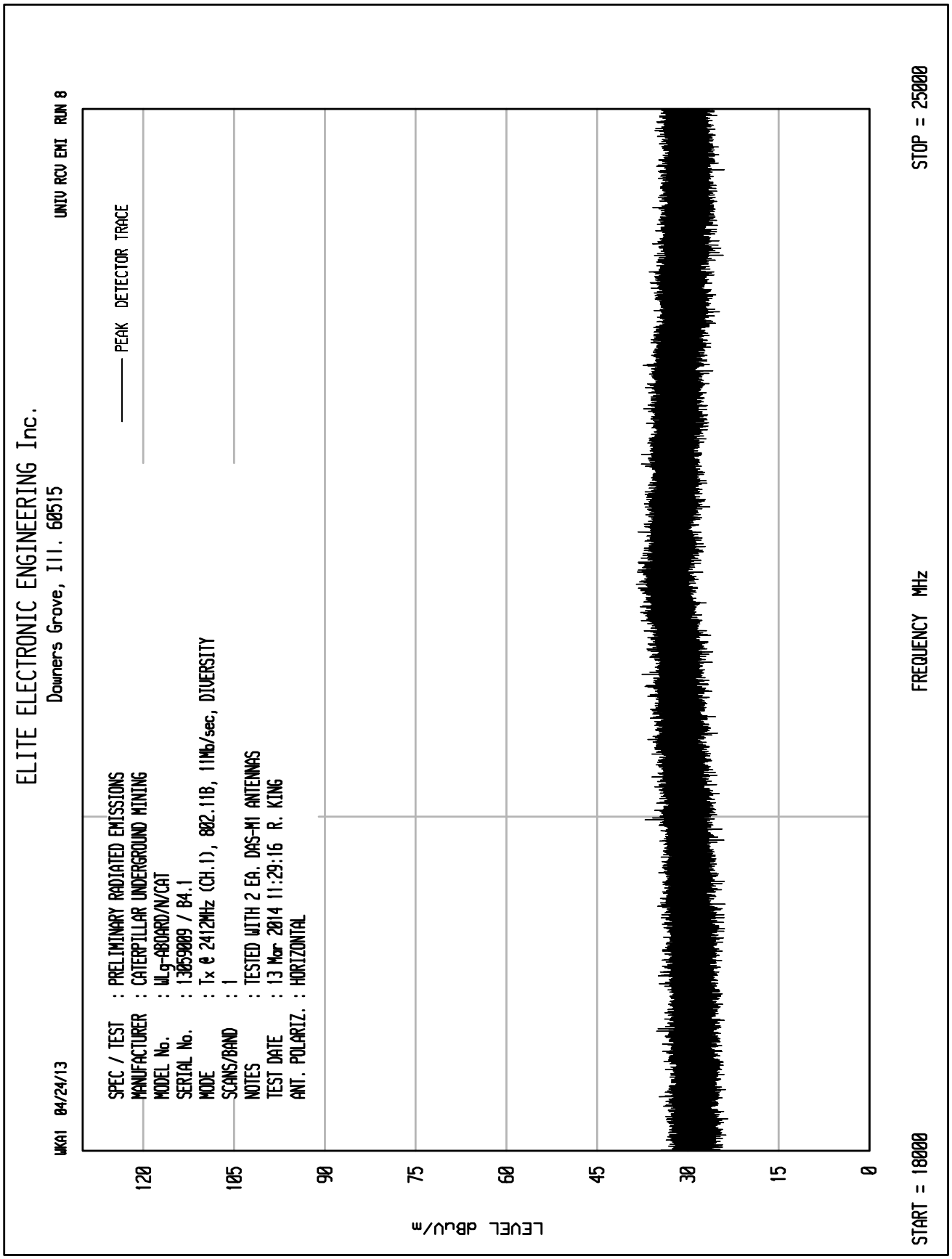

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 17
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 10:44:25 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

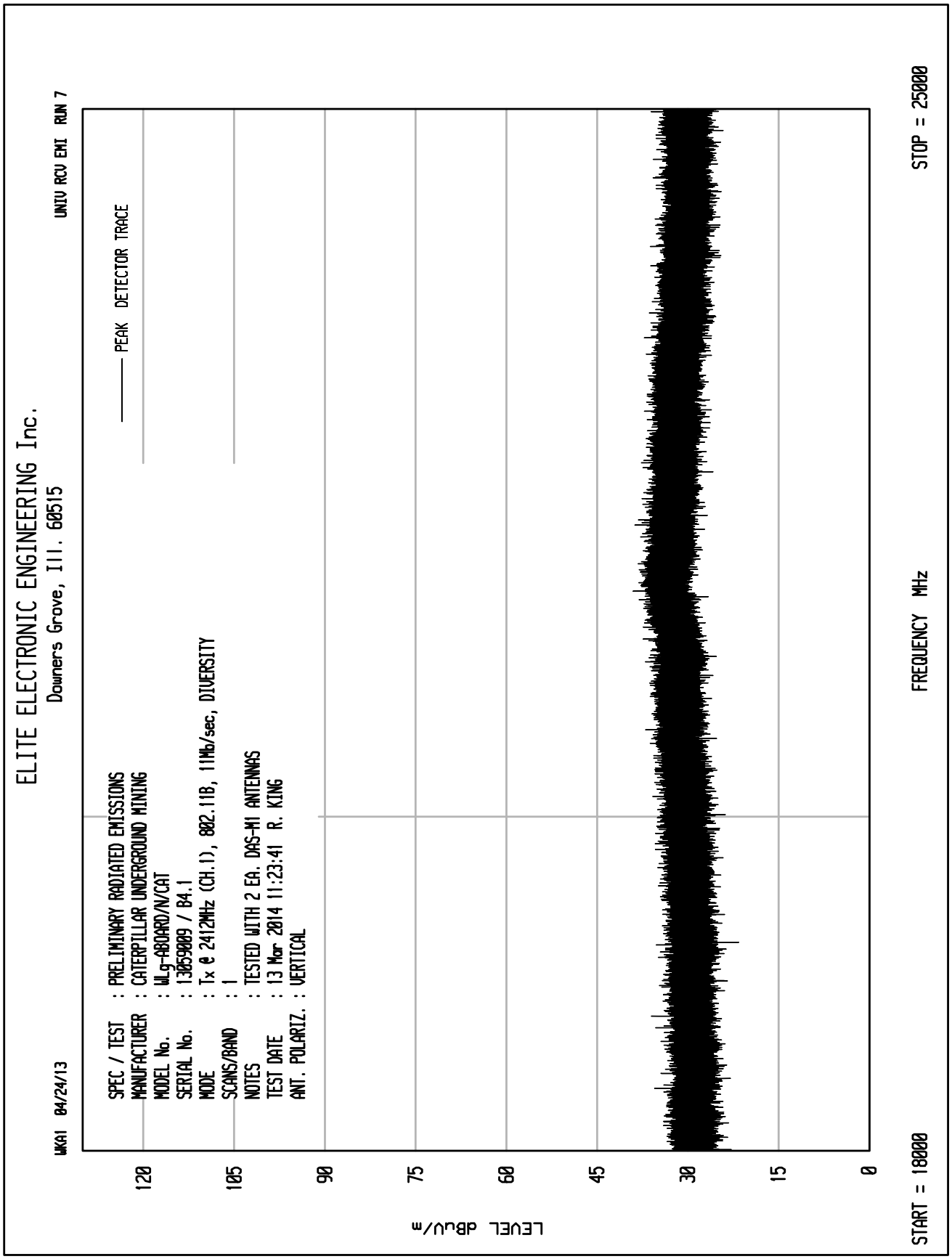

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 4
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 09:56:39 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

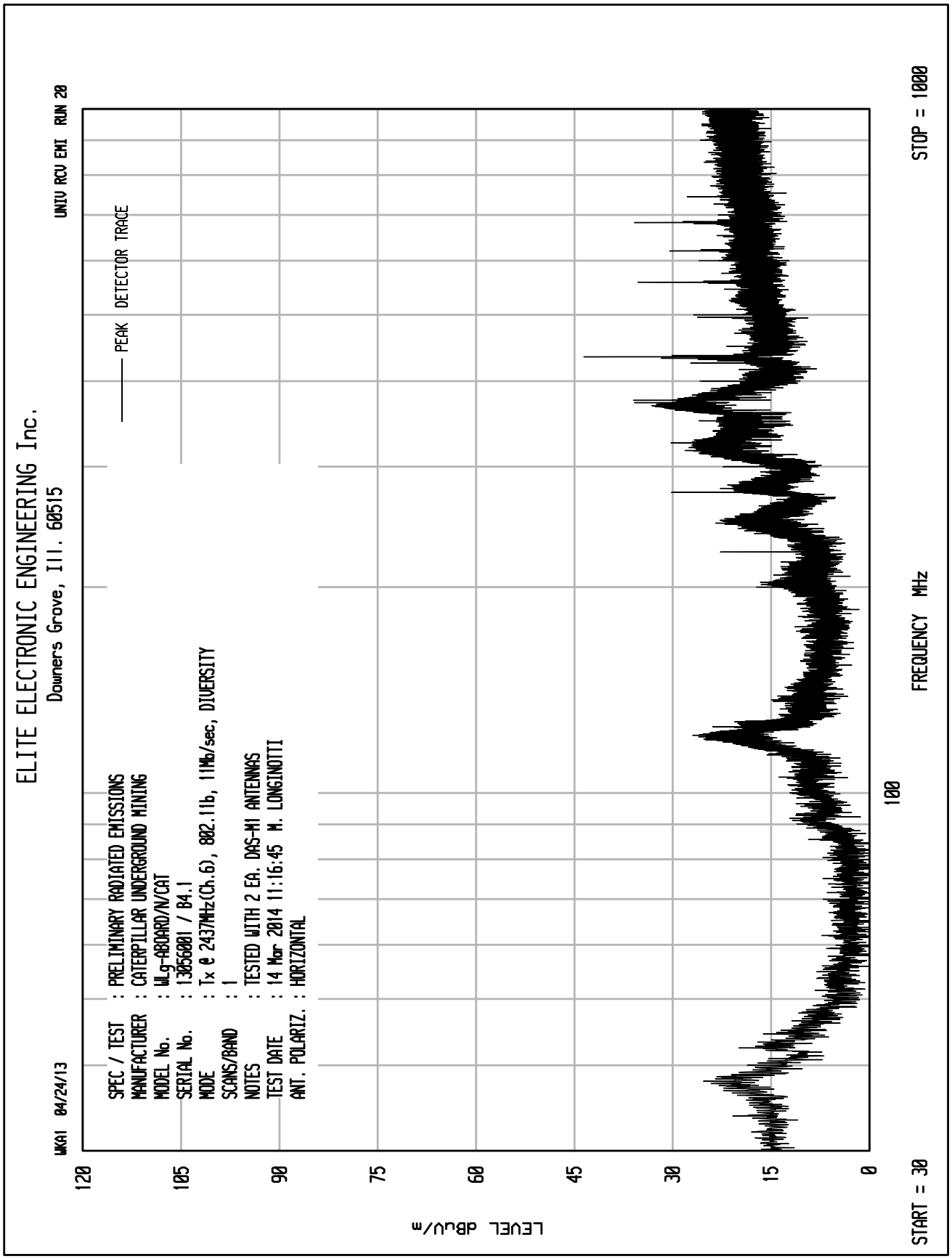

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 6
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 11:17:26 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

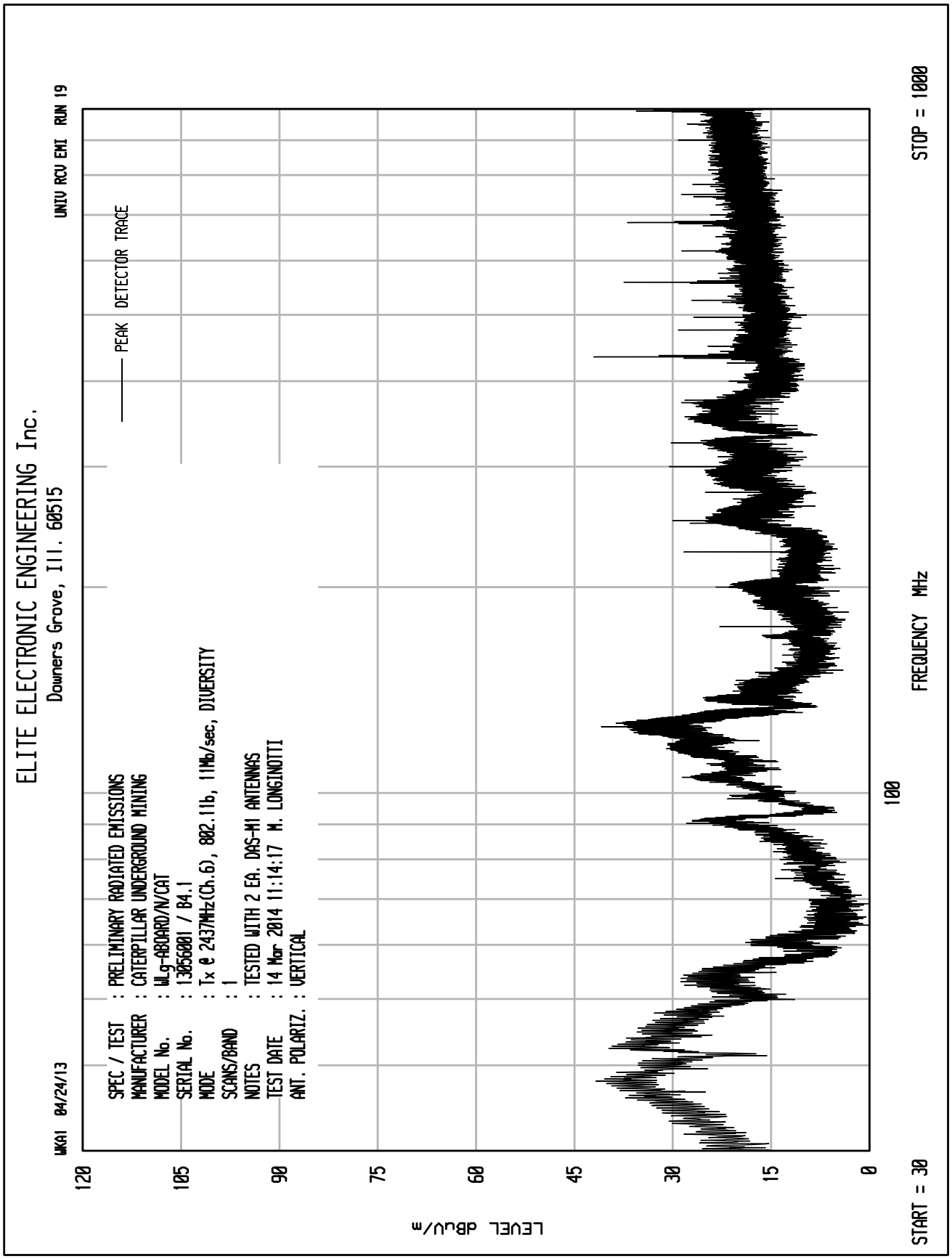

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 3
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 10:40:37 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

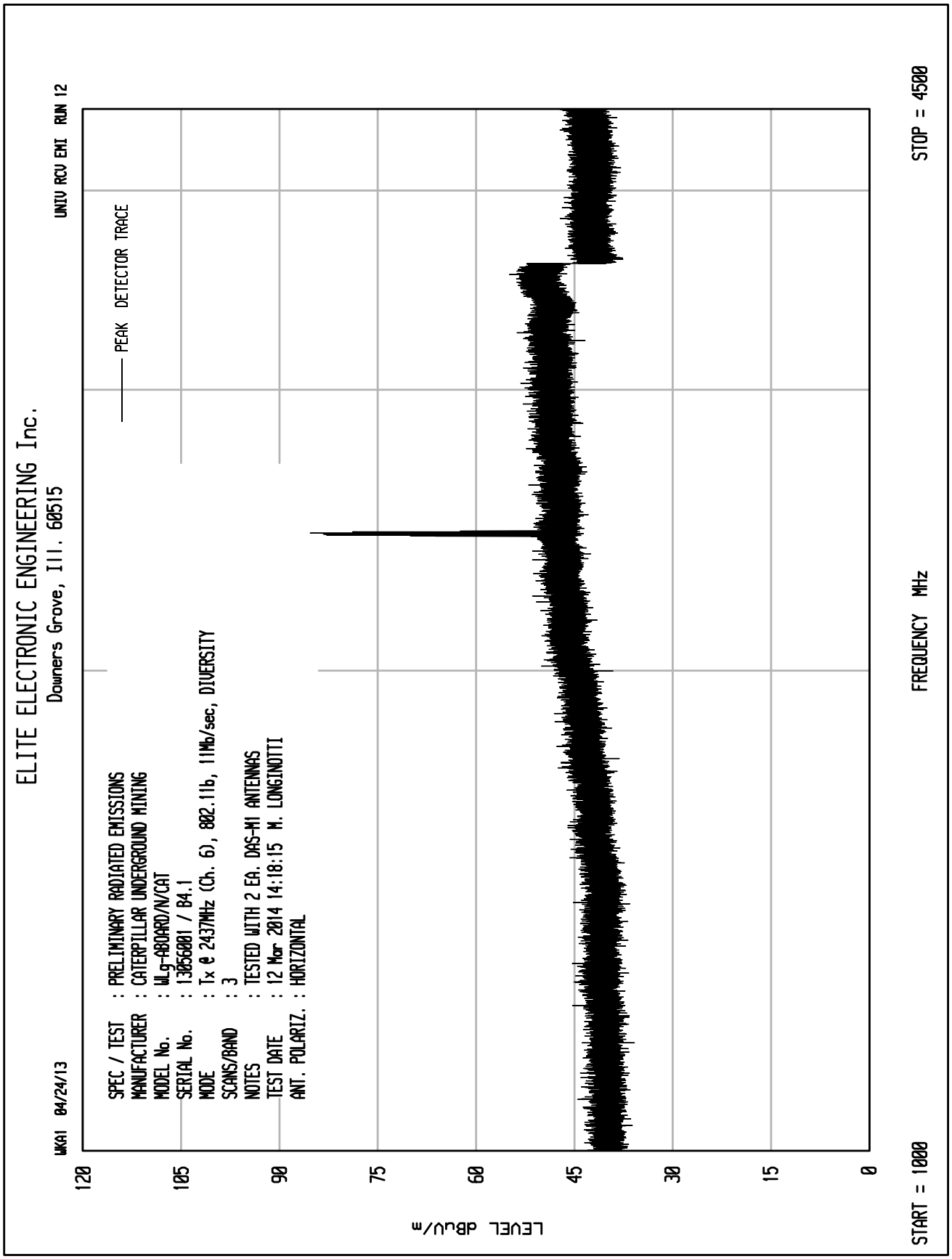

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 1
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 10:26:26 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

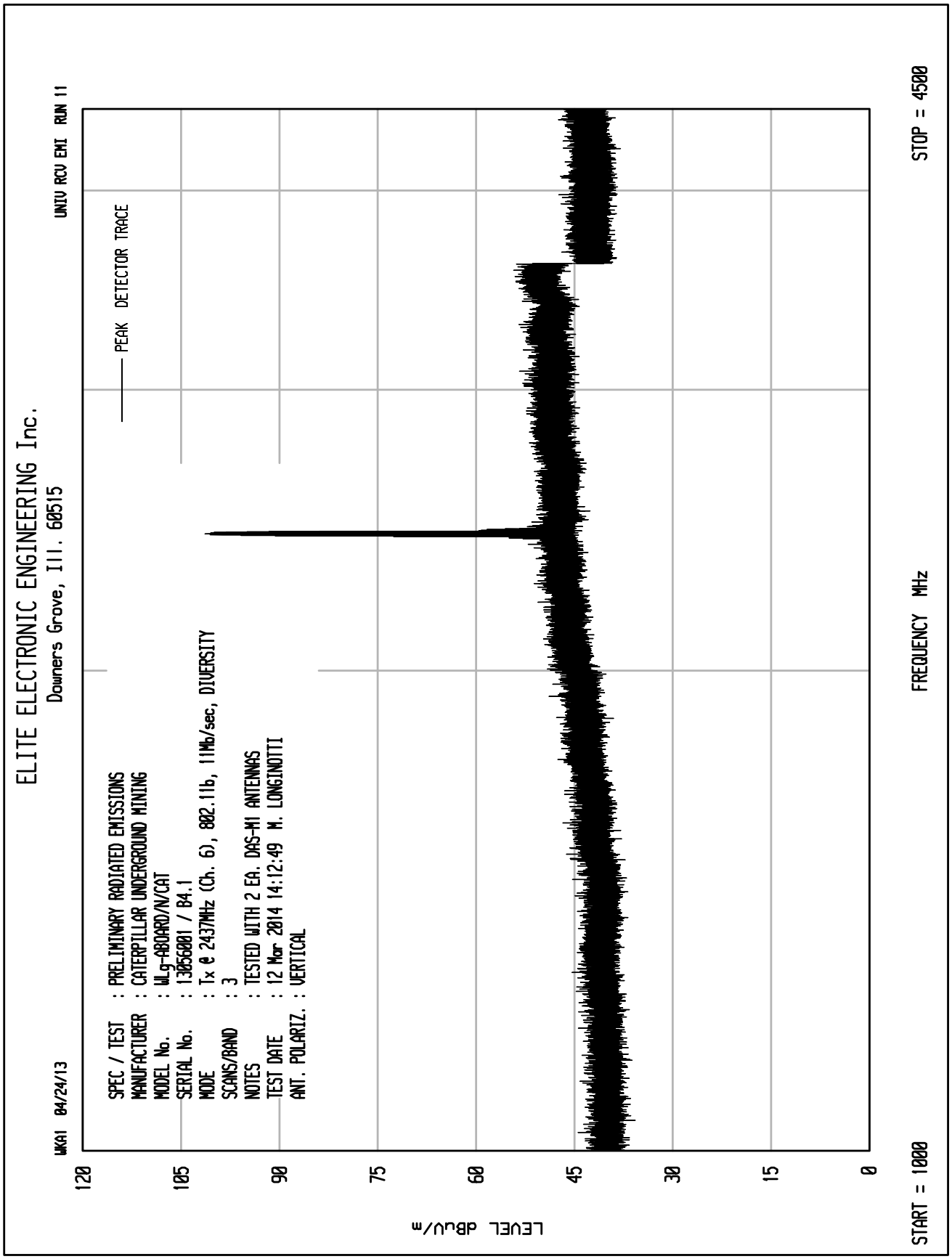

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 8
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (CH.1), 802.11B, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 11:29:16 R. KING
ANT. POLARIZ. : HORIZONTAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

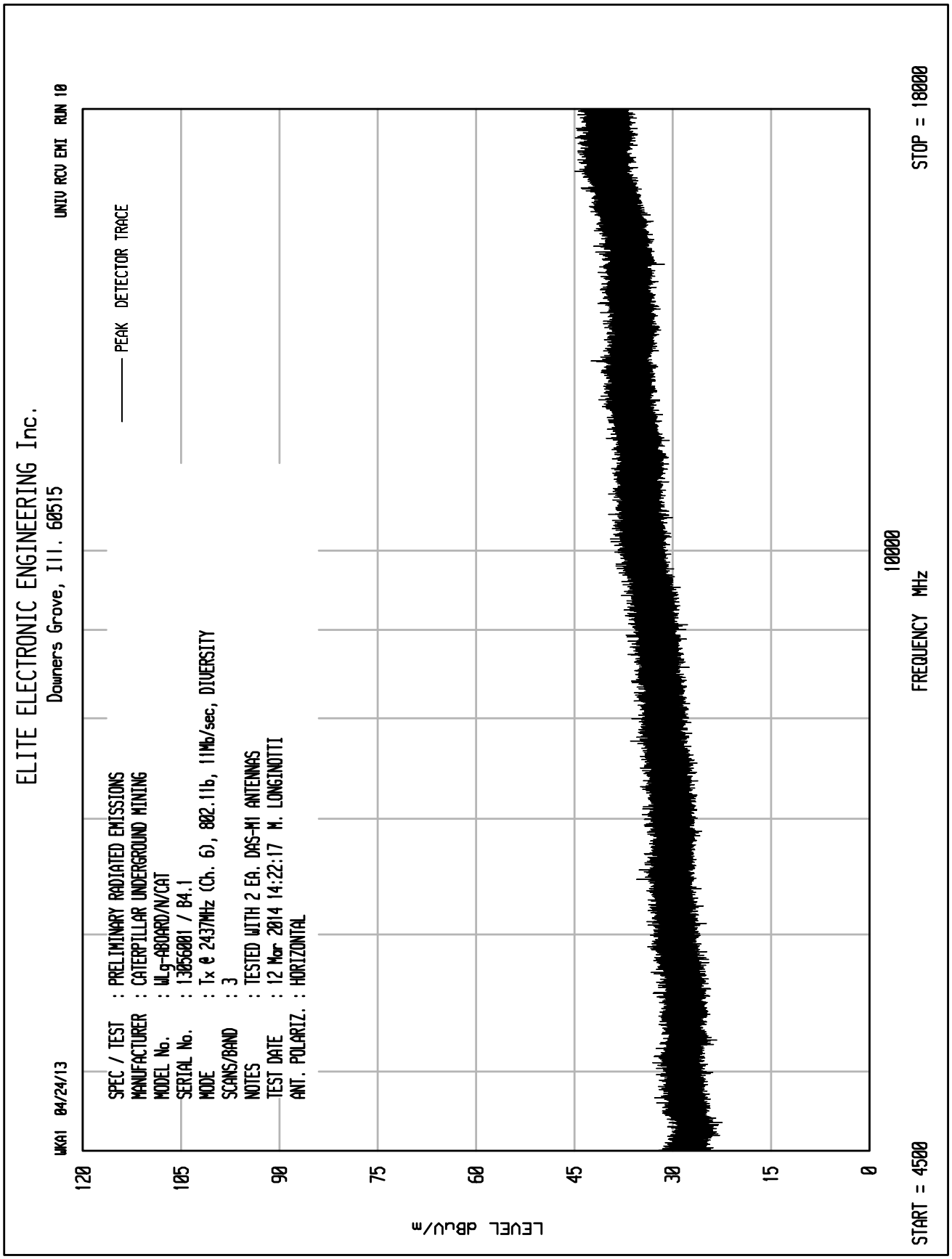

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 7
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (CH.1), 802.11B, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 11:23:41 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

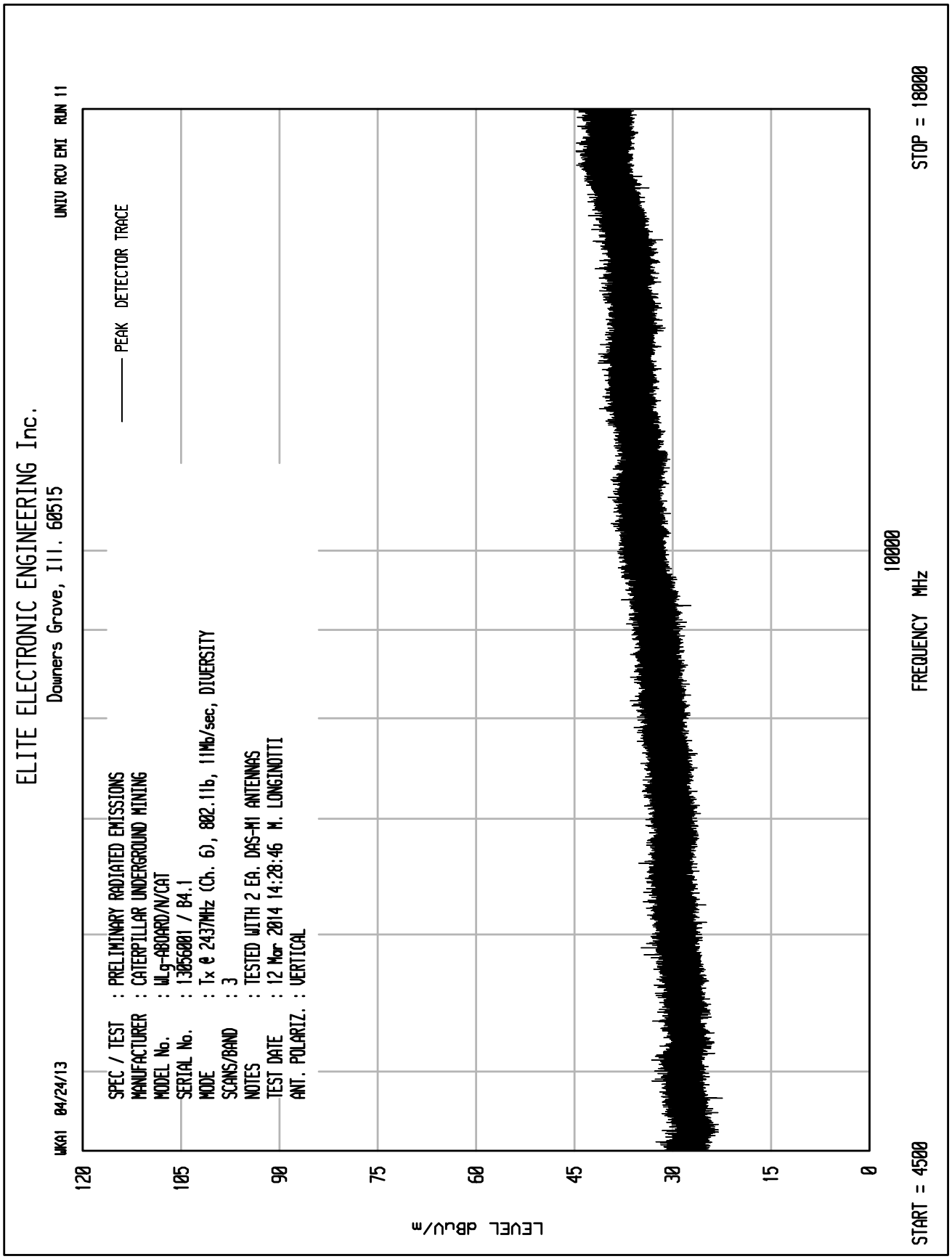

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 20
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 11:16:45 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

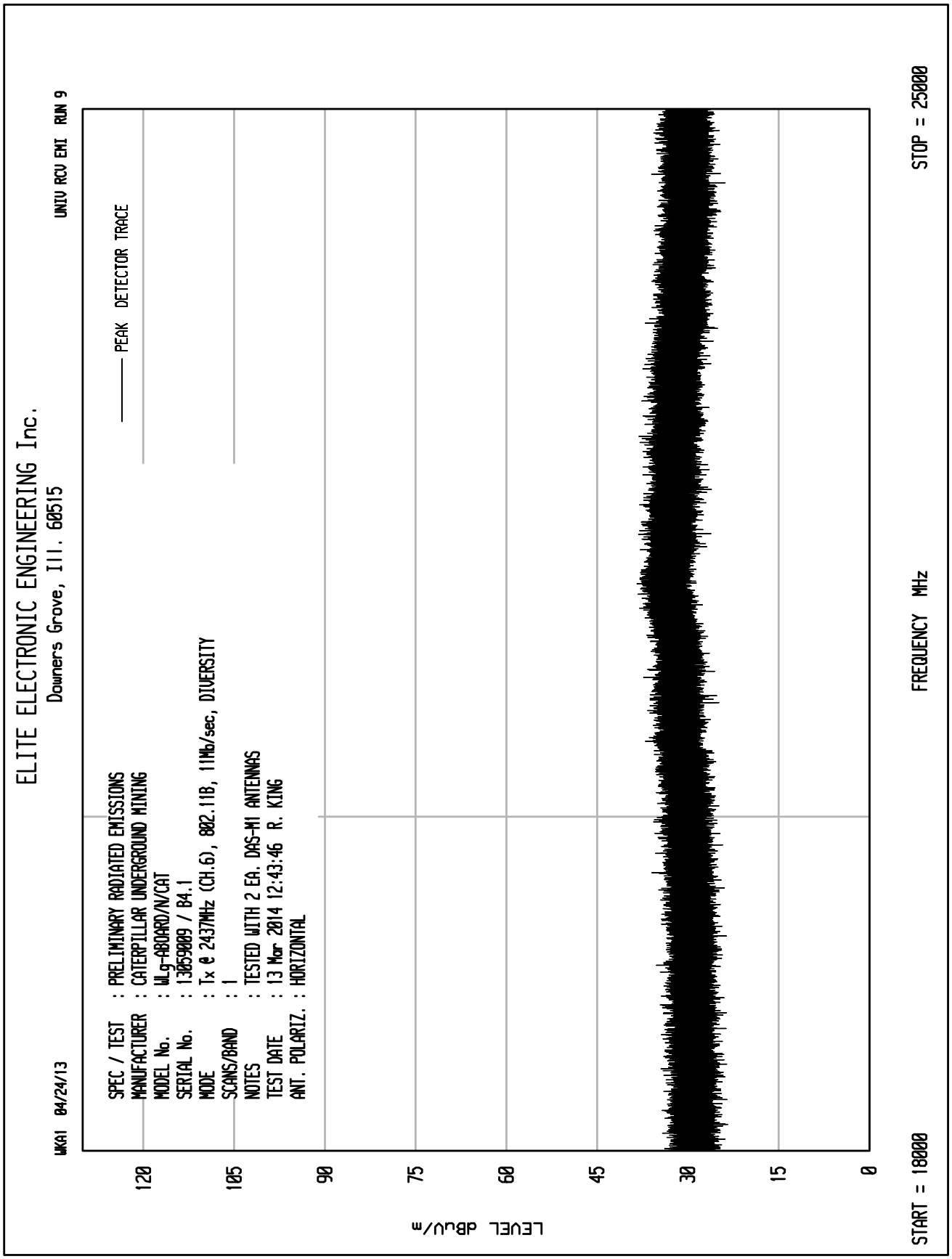

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 19
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 11:14:17 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

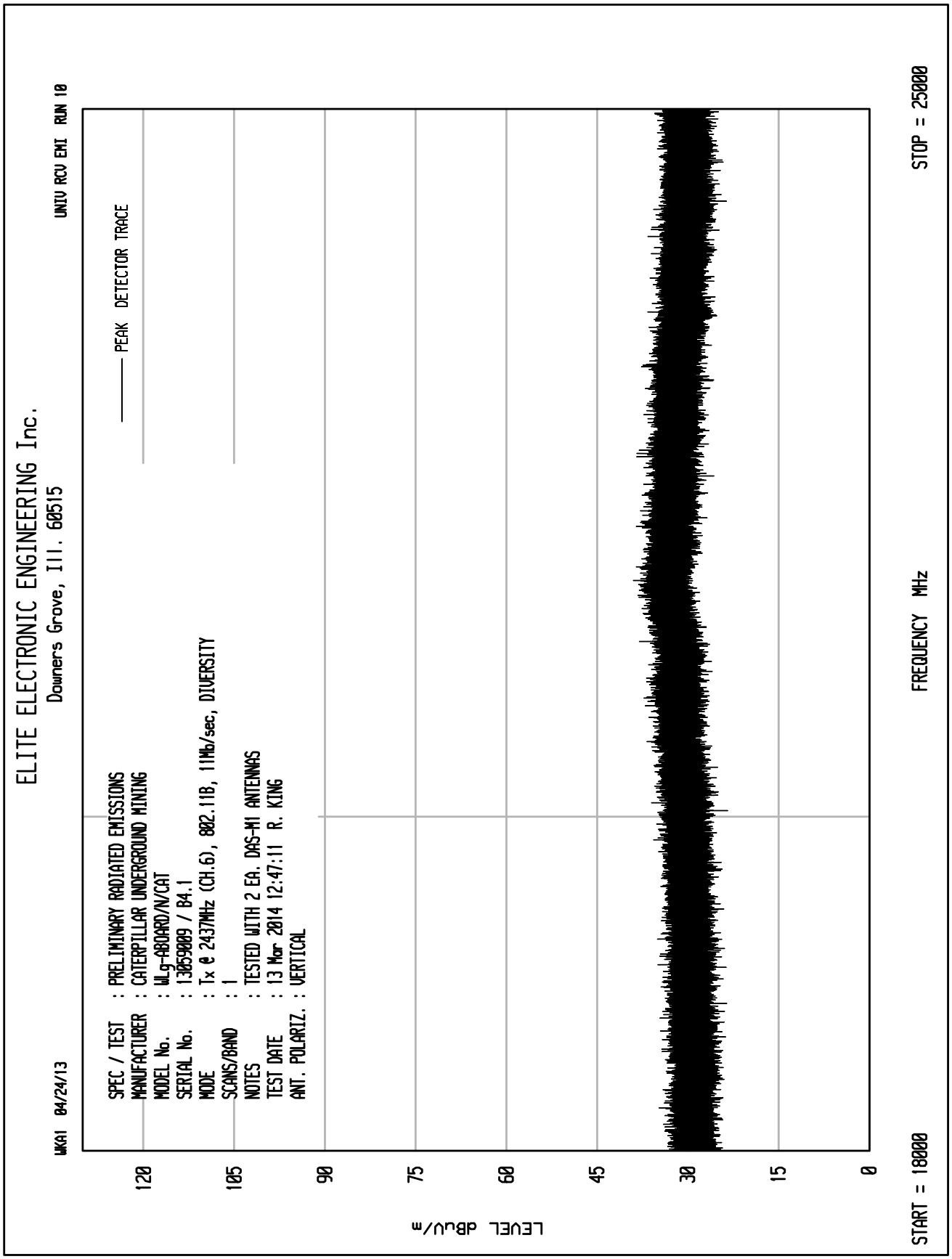

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 12
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 14:18:15 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

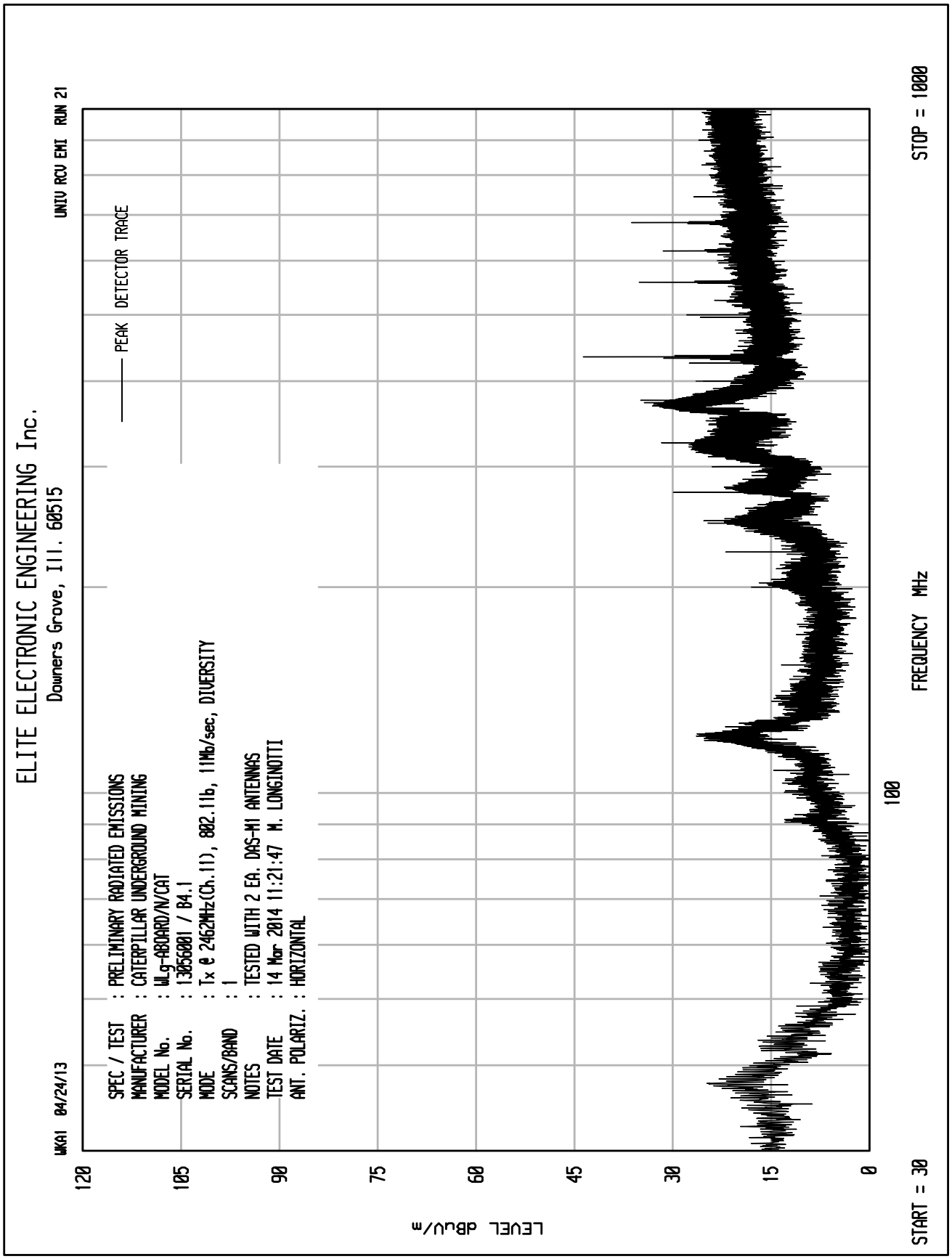

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 11
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 14:12:49 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

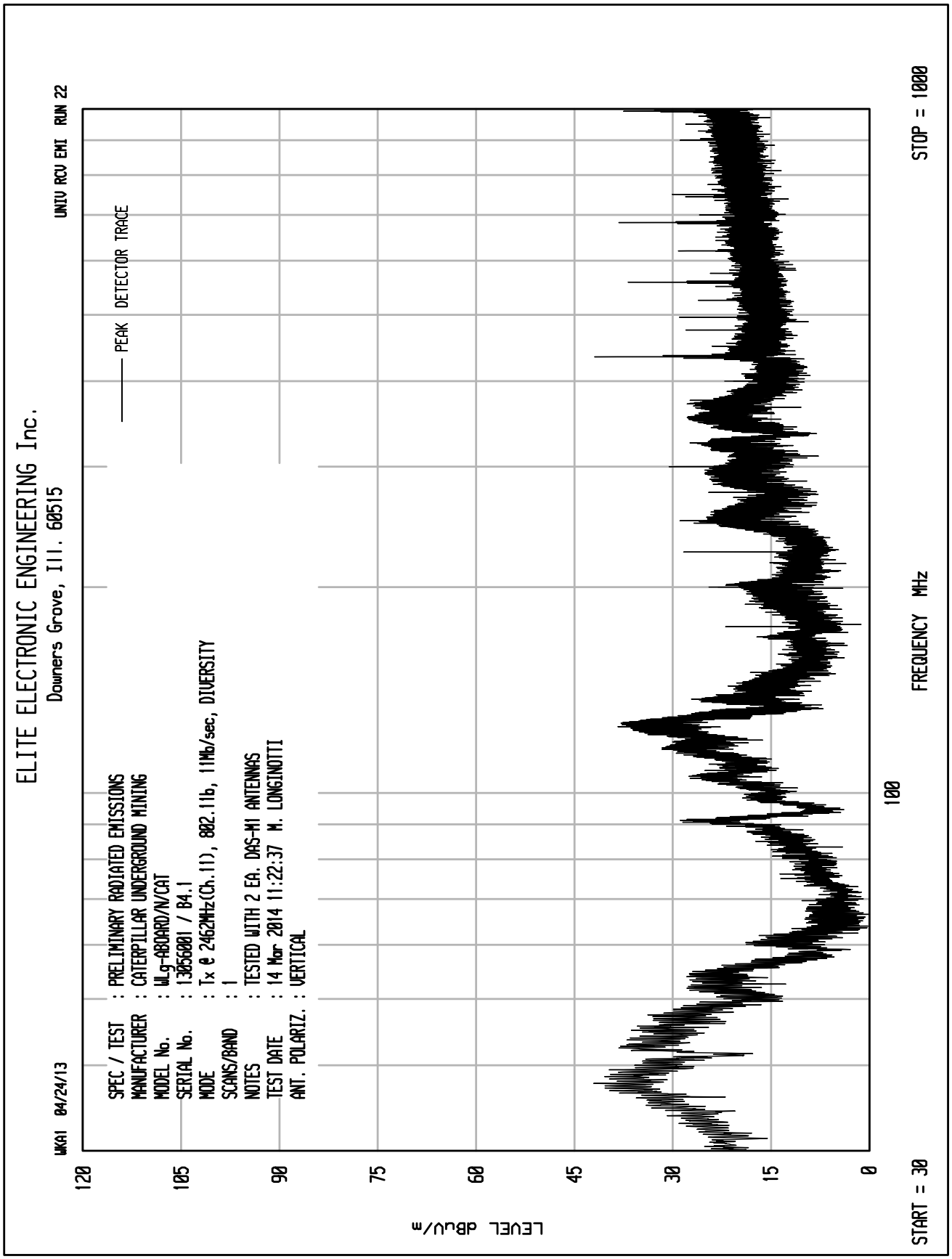

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 10
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 14:22:17 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

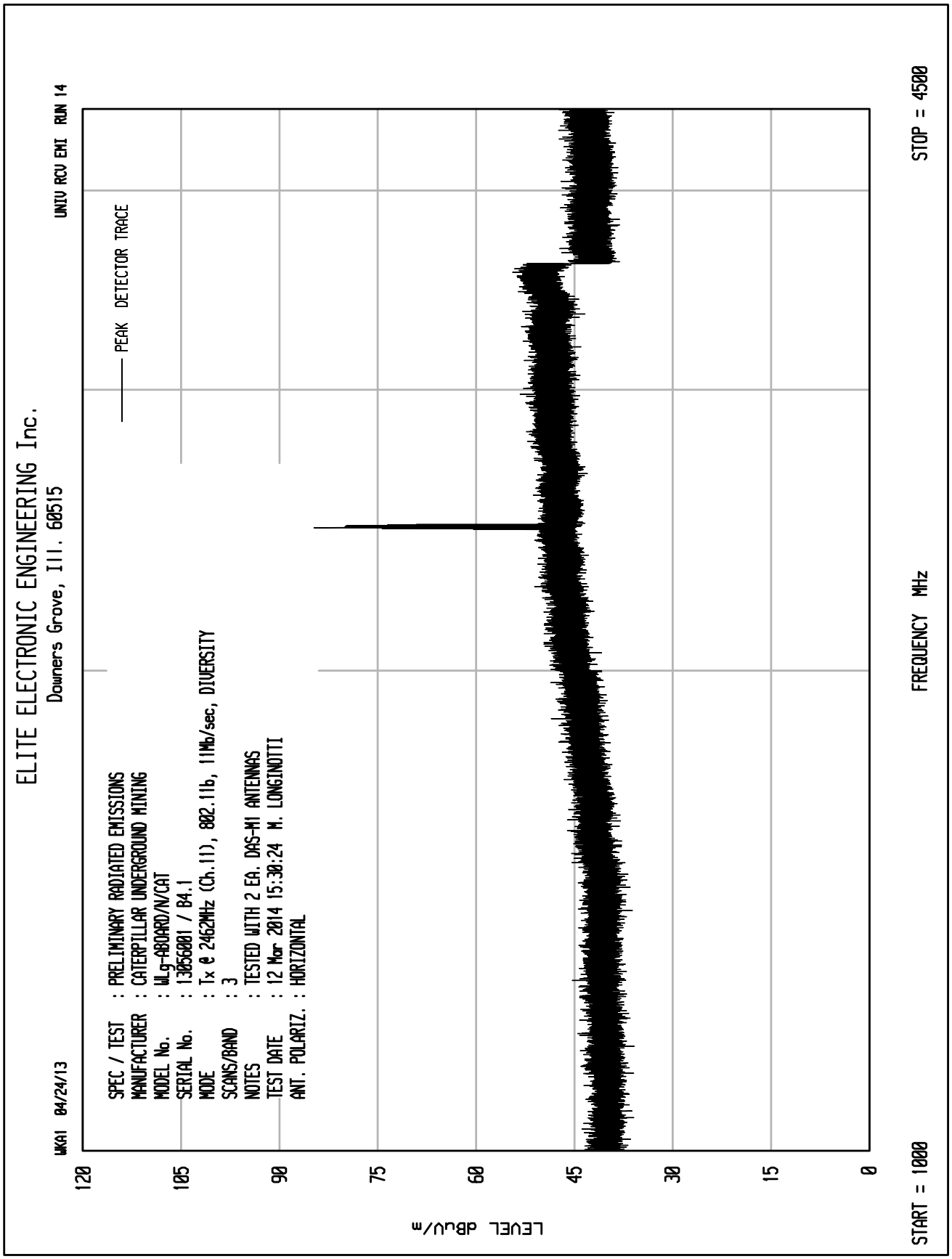

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 11
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 14:28:46 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

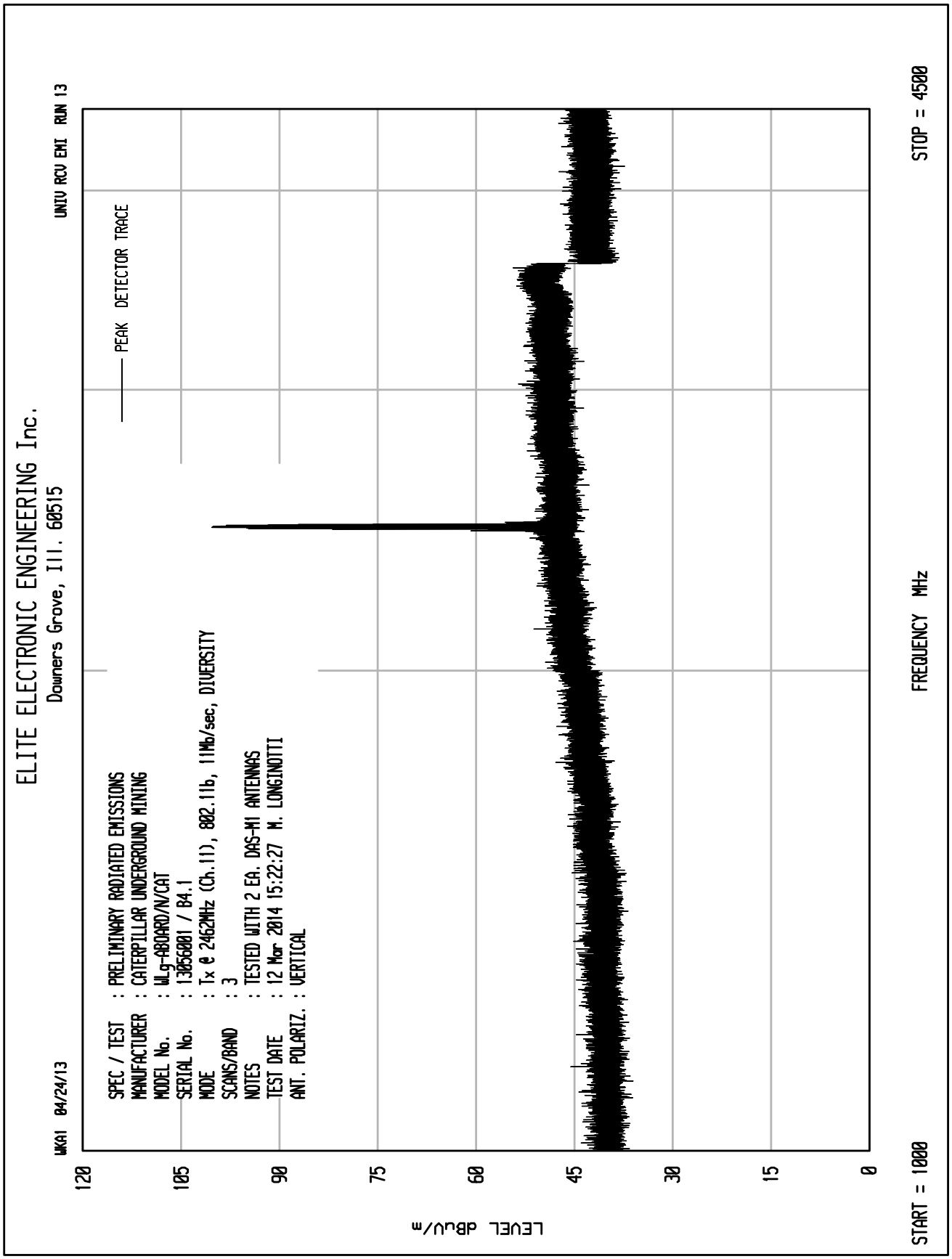

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 9
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH.6), 802.11B, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 12:43:46 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

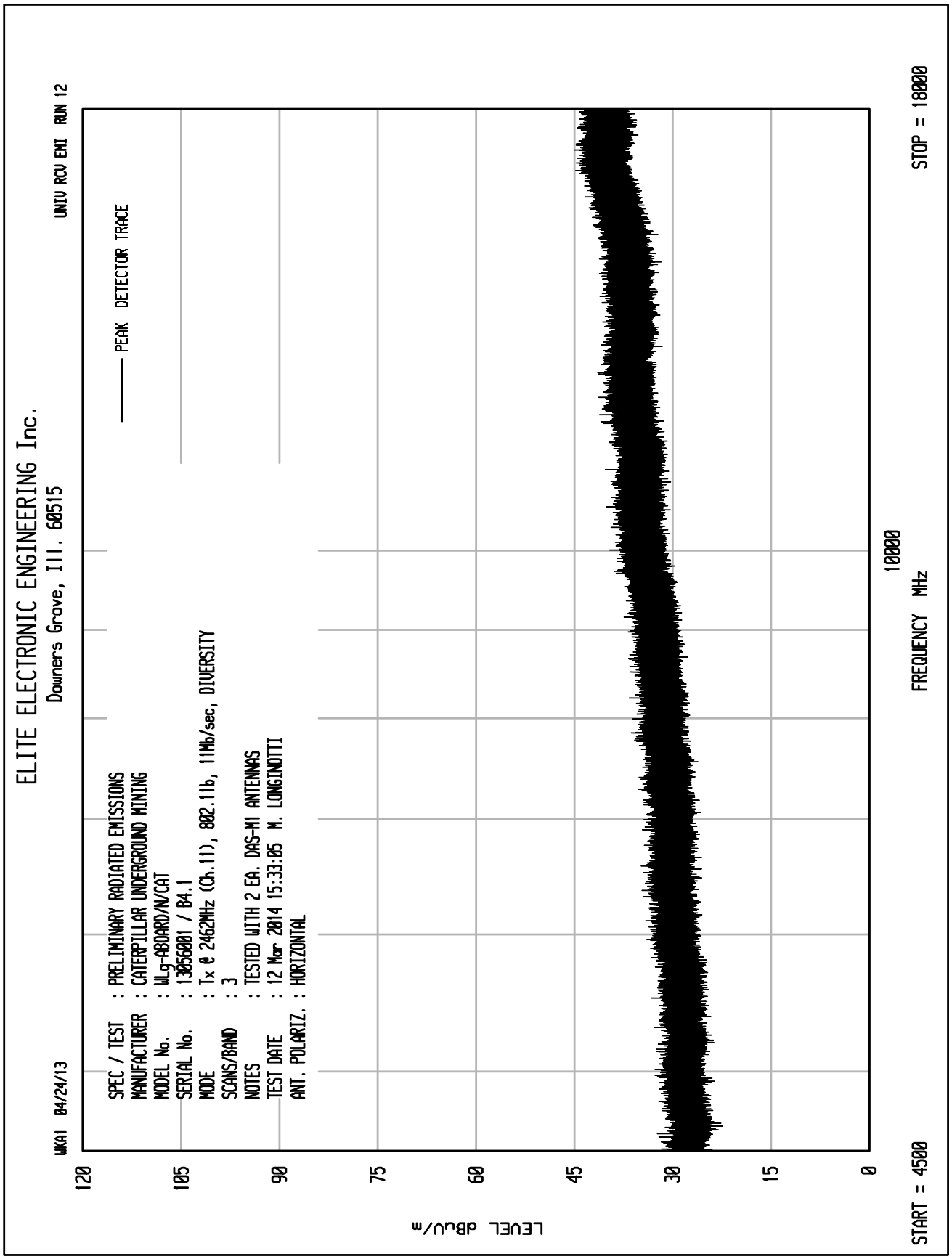

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 10
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH.6), 802.11B, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 12:47:11 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

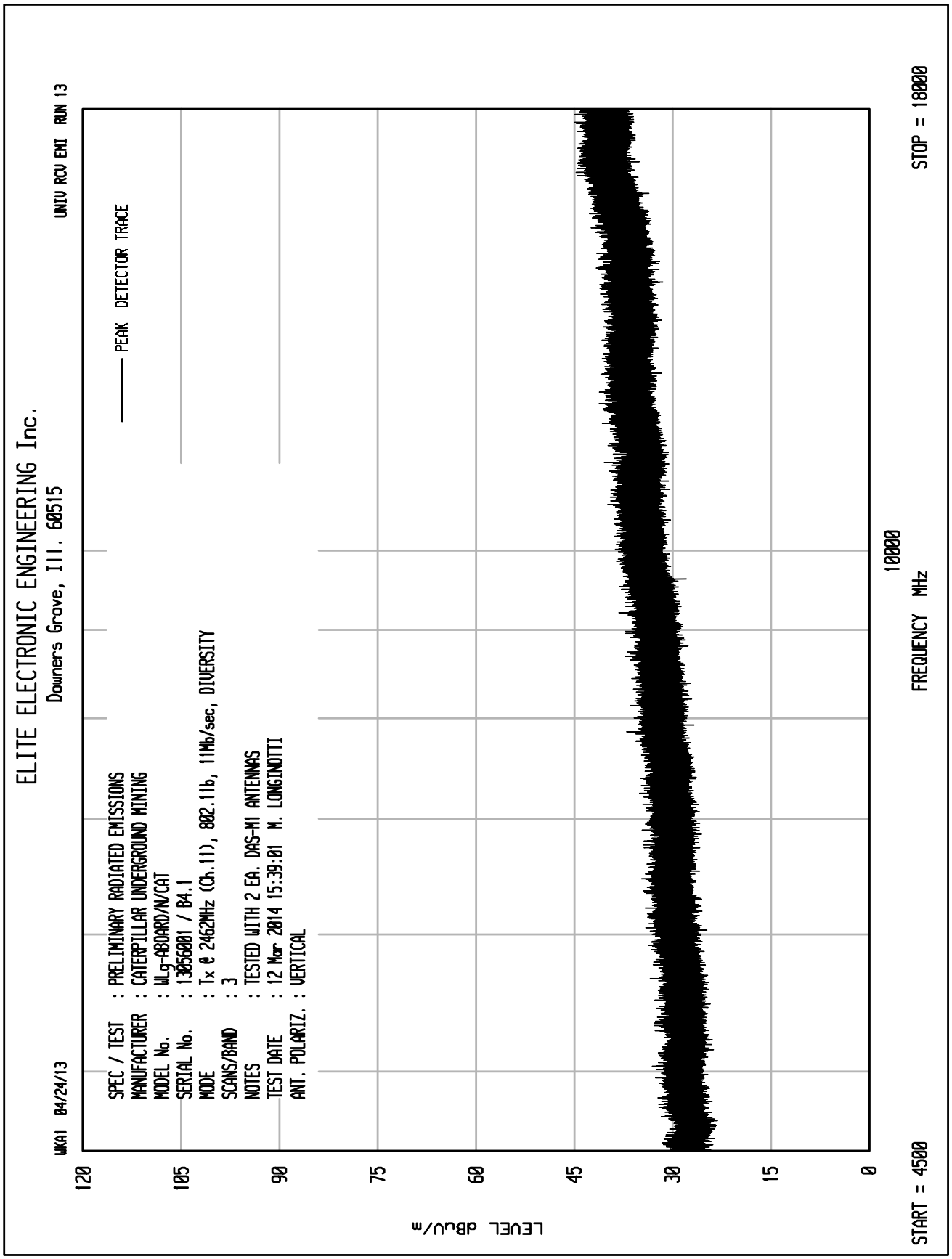

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 21
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 11:21:47 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

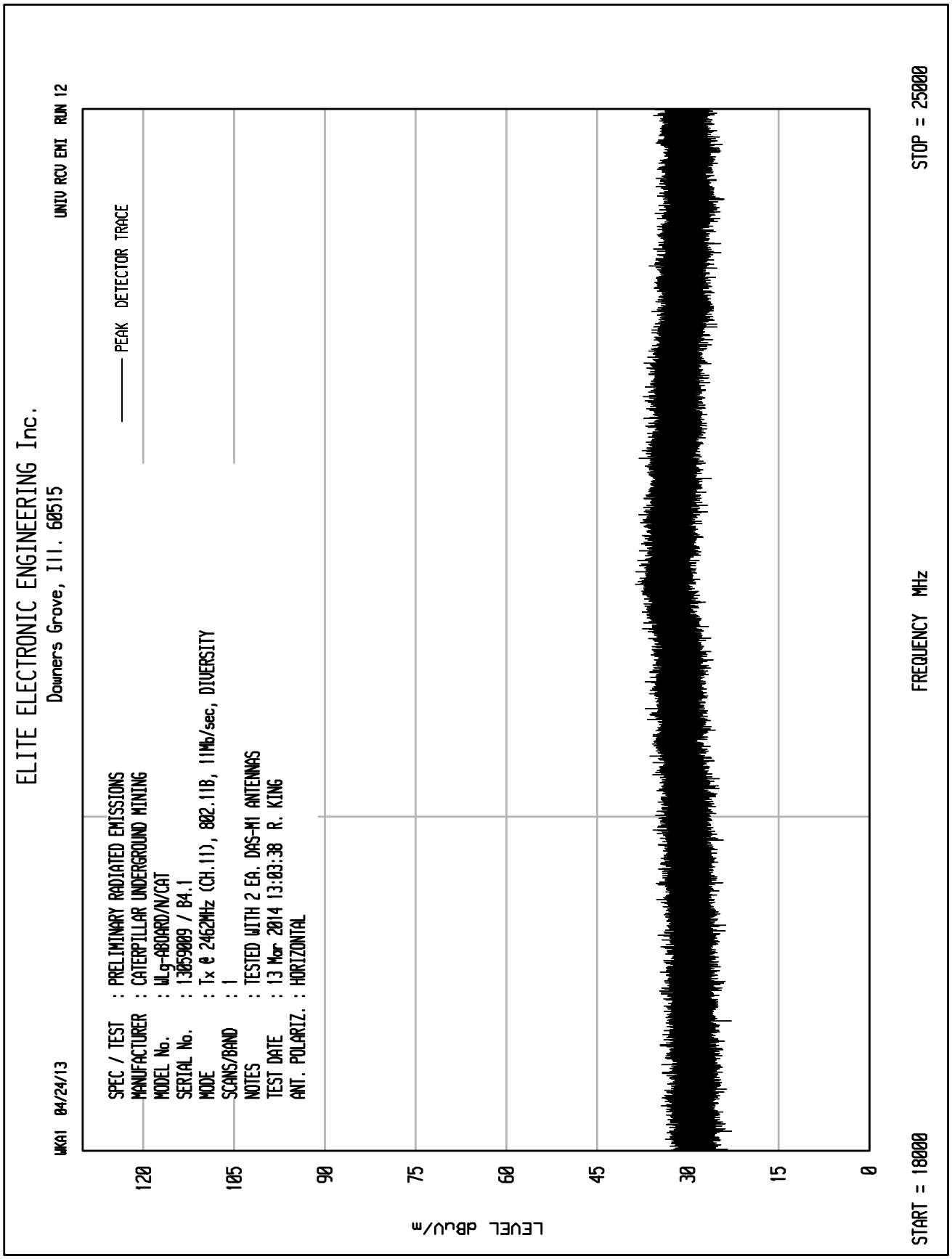

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 22
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : UG-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 11:22:37 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

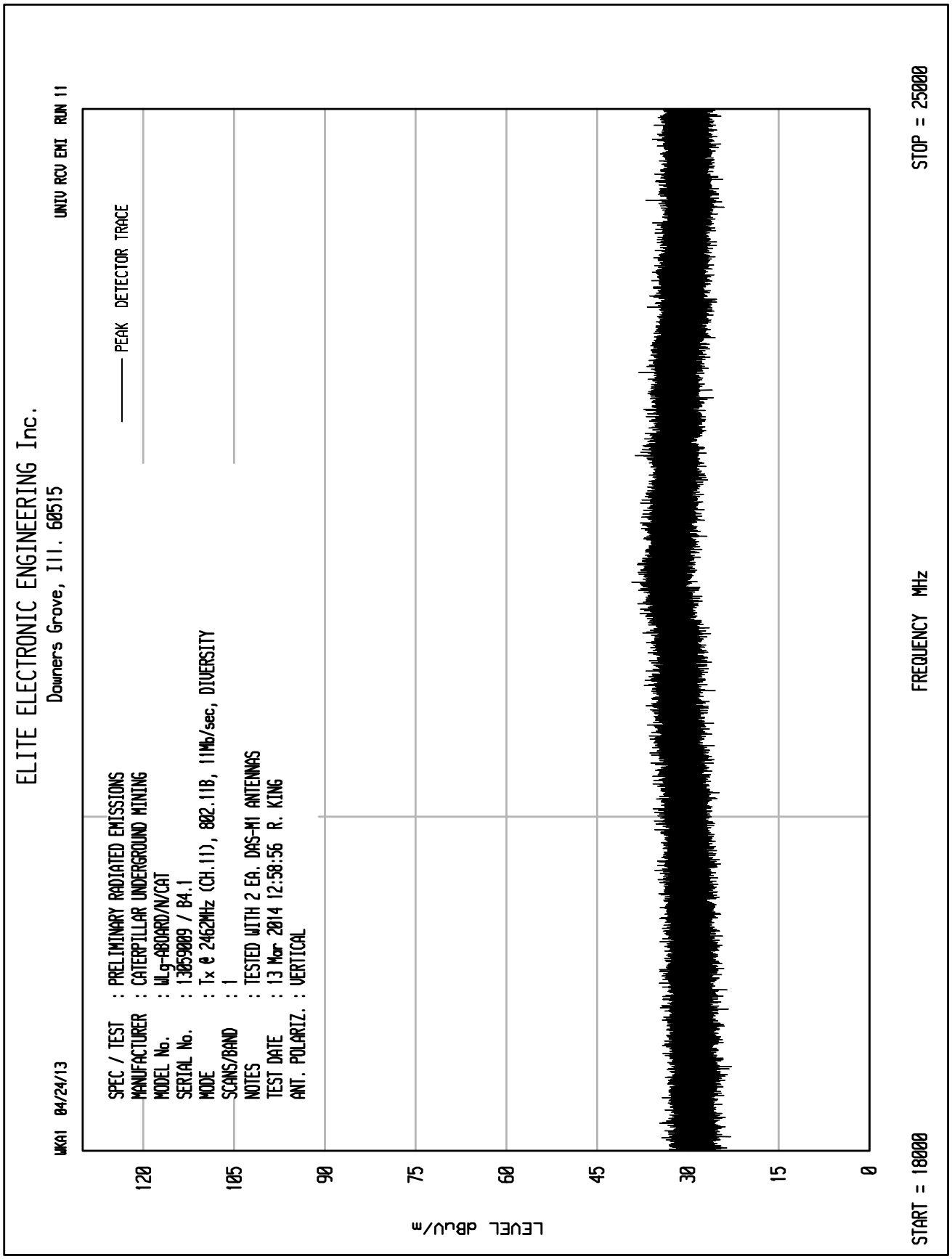

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 14
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 15:30:24 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

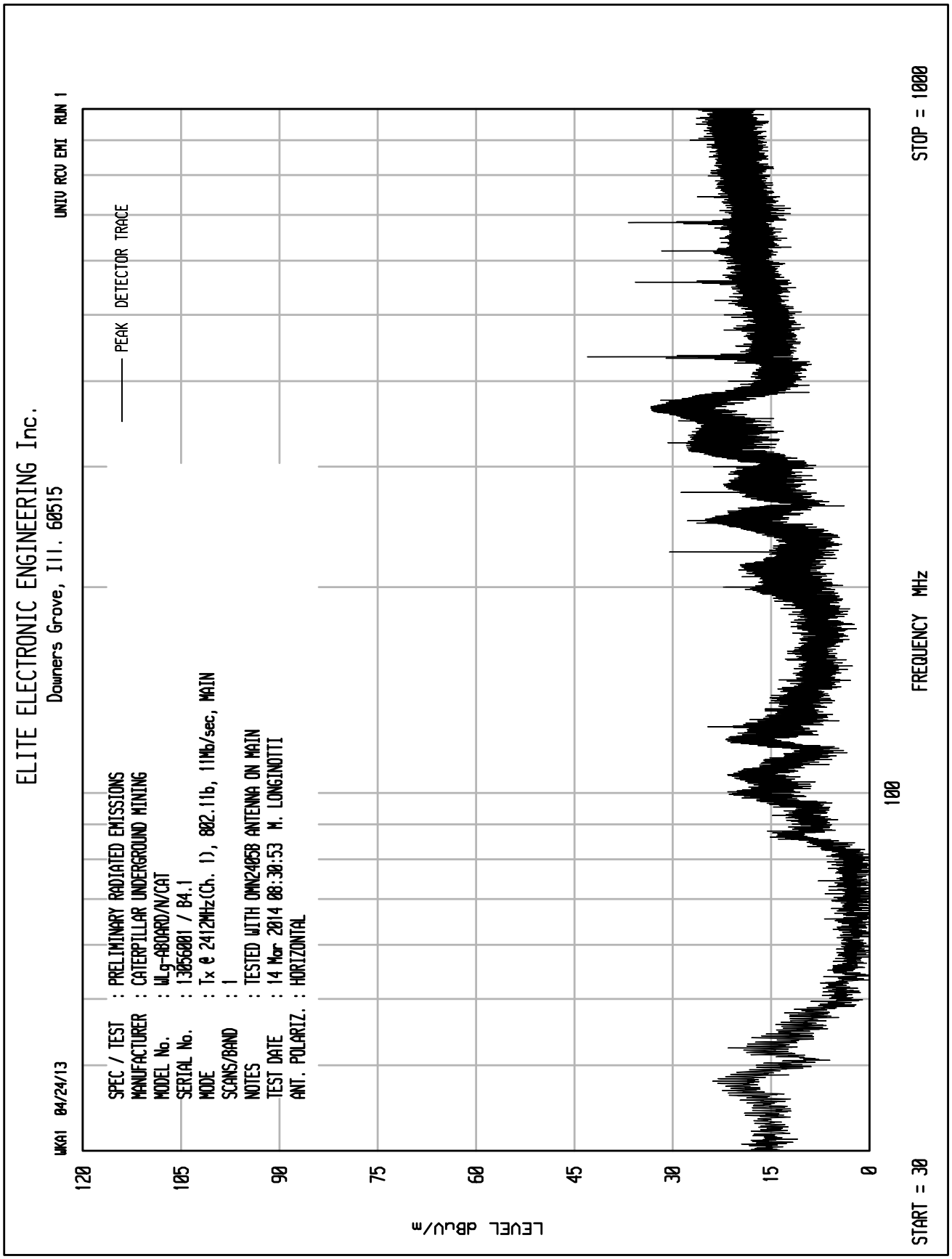

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 13
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 15:22:27 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

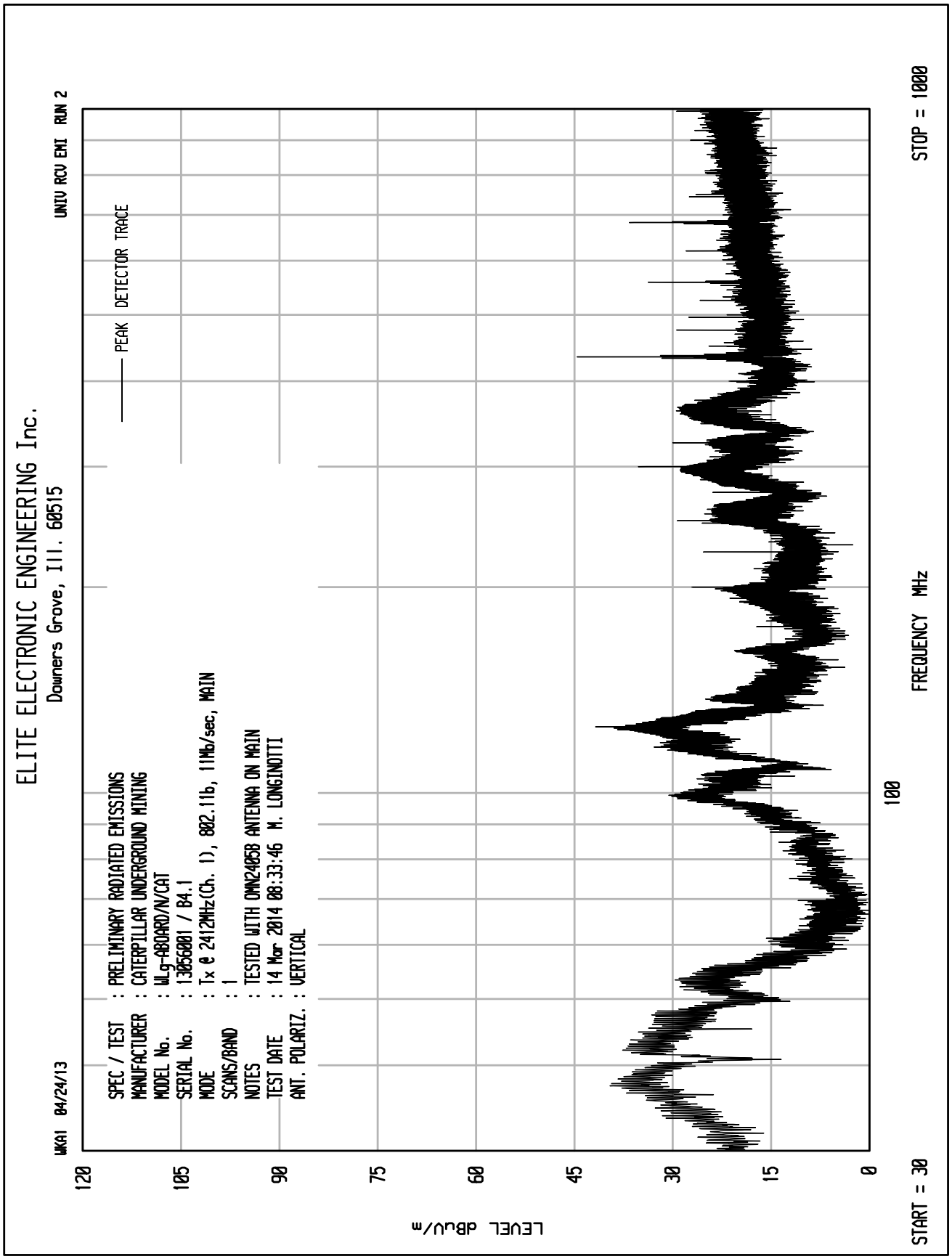

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 12
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 15:33:05 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

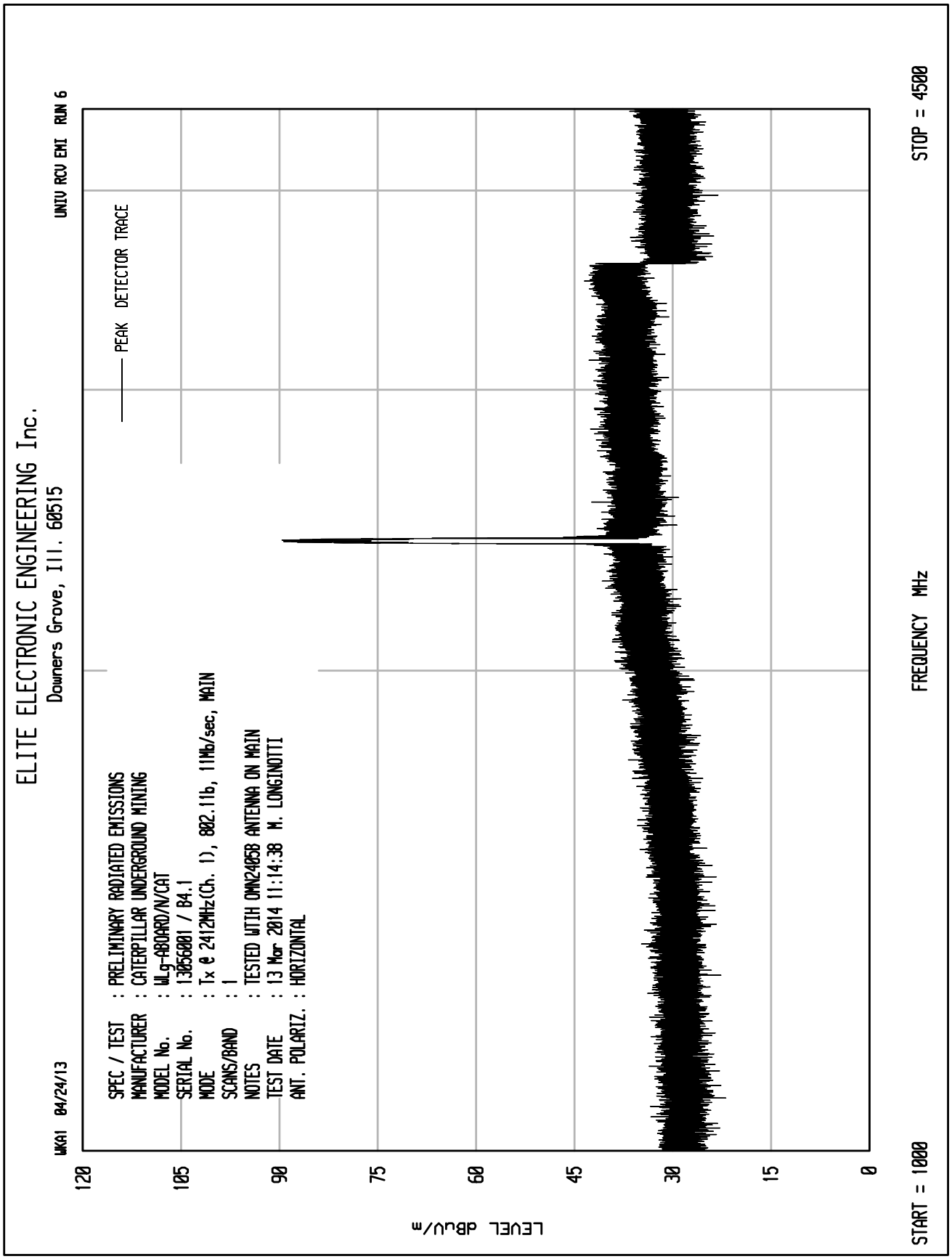

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 13
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11b, 11Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 15:39:01 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

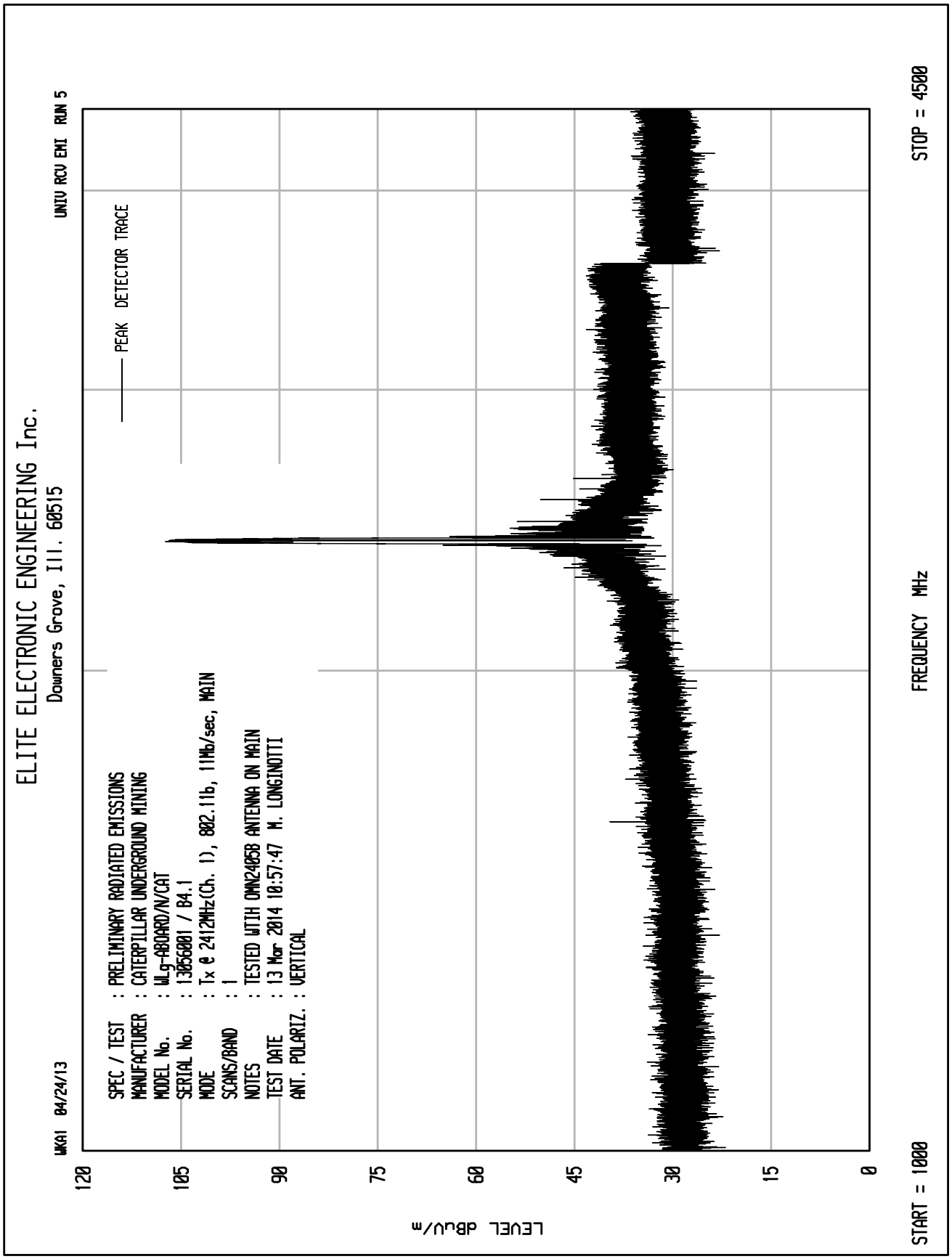

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 12
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11B, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 13:03:38 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

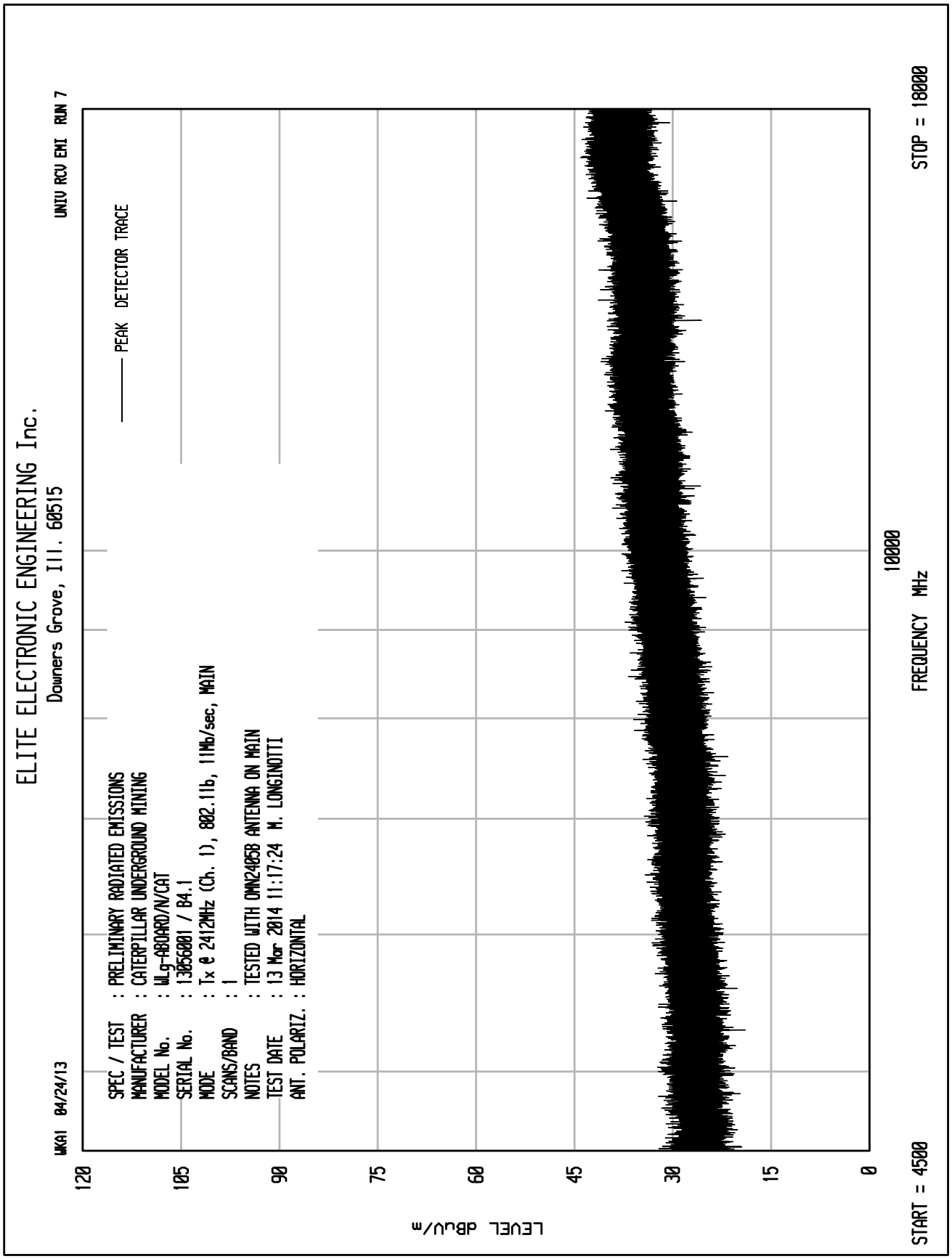

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 11
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11B, 11Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 12:58:56 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

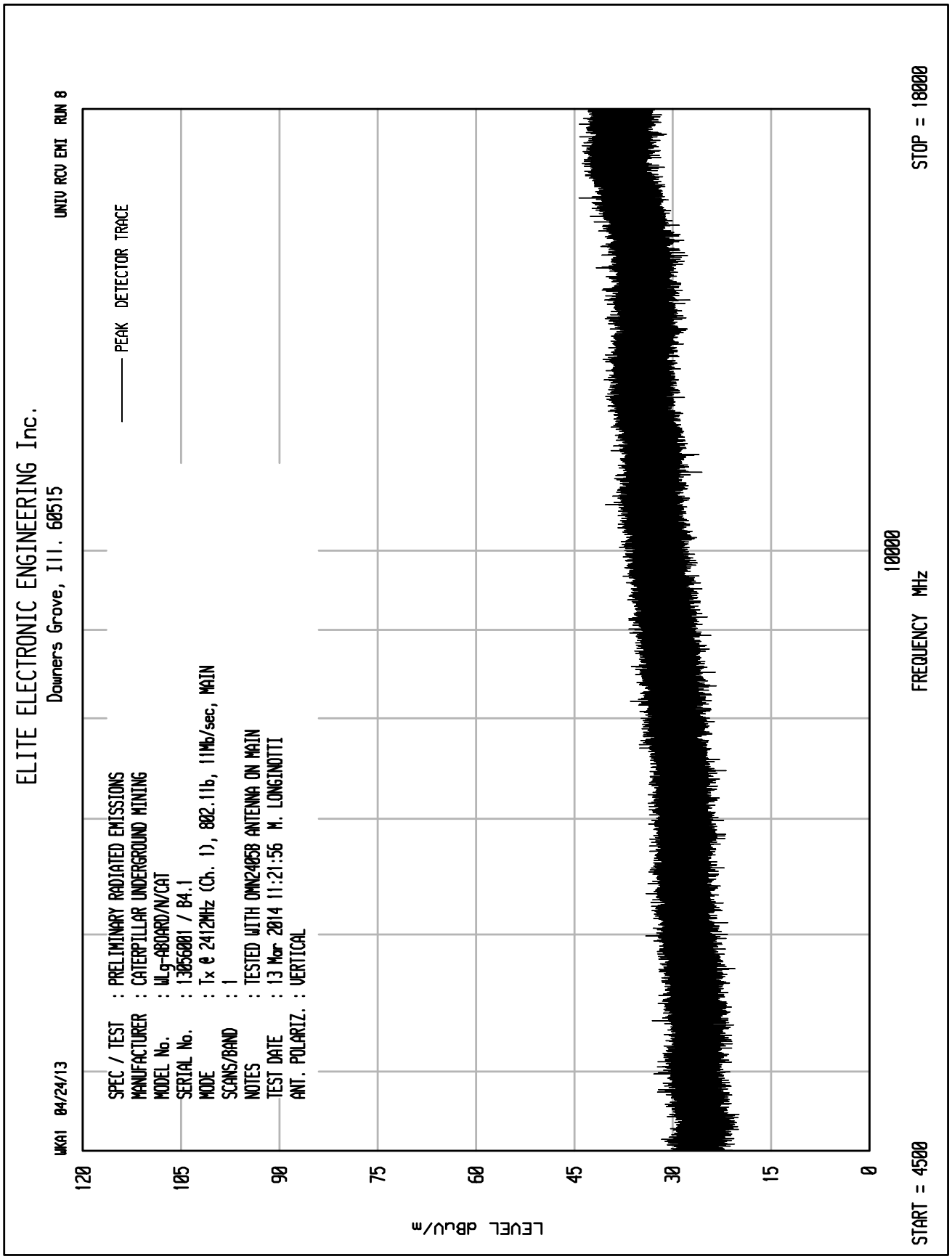

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 1
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch. 1), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 08:30:53 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

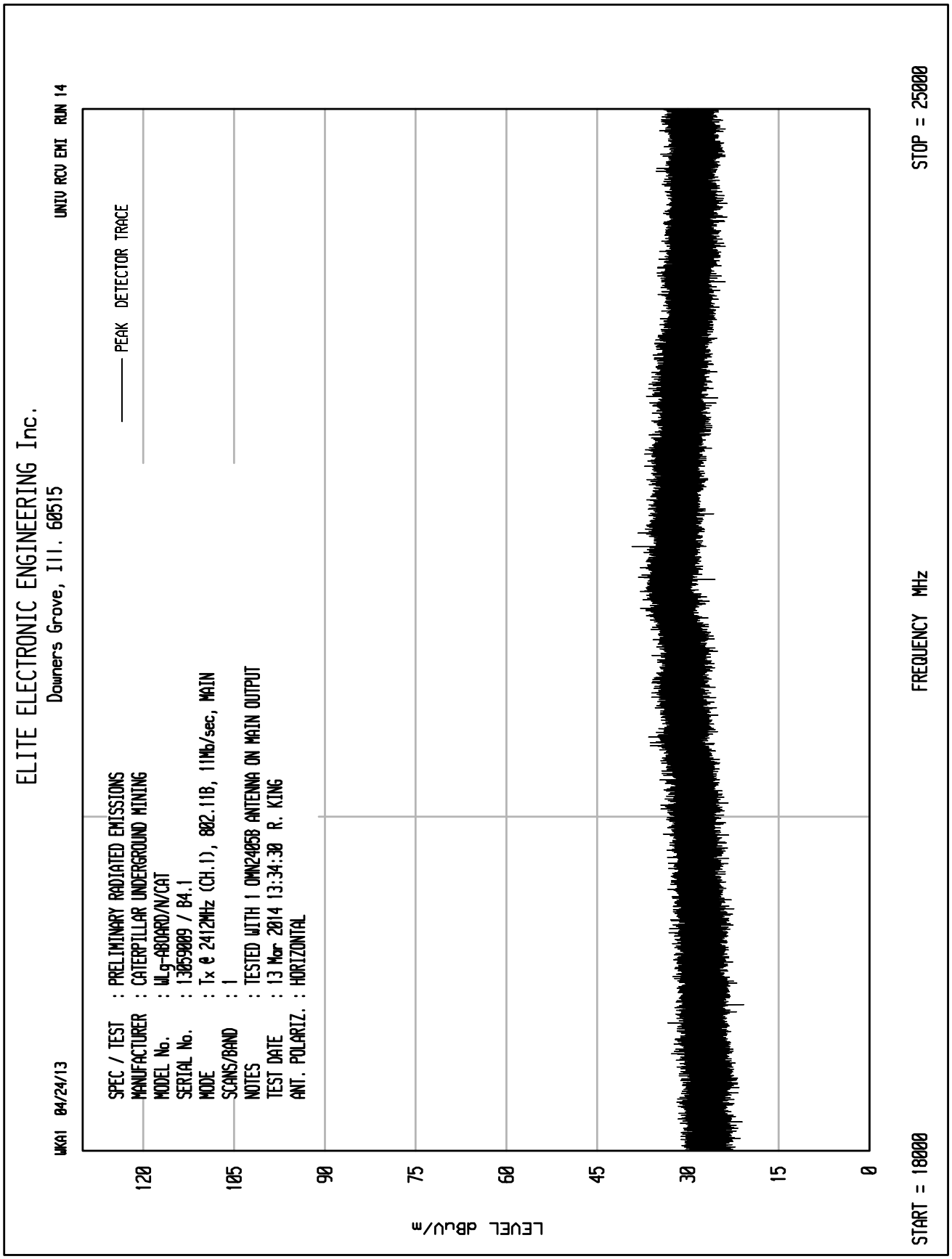

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 2
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch. 1), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 08:33:46 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

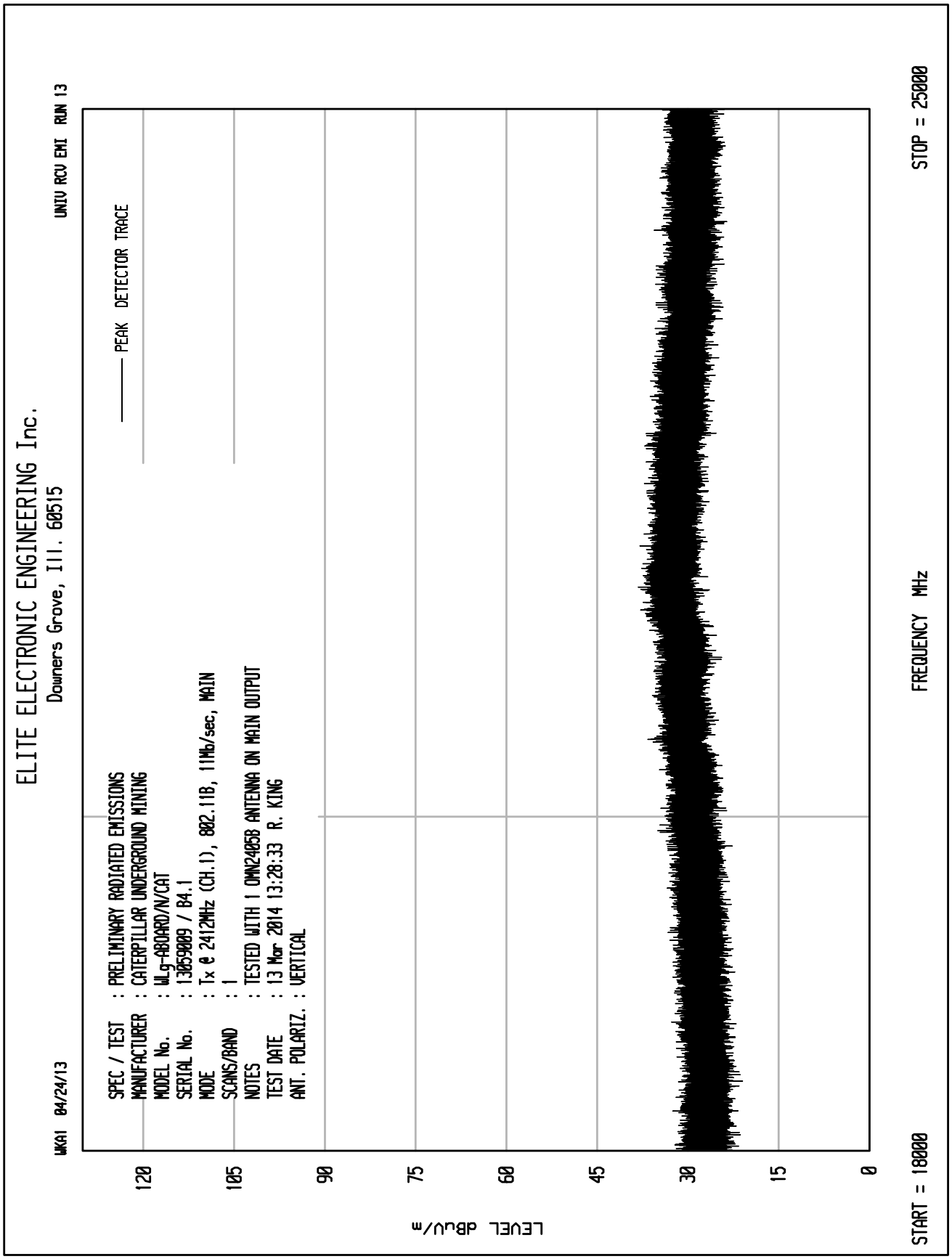

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 6
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch. 1), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 11:14:38 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

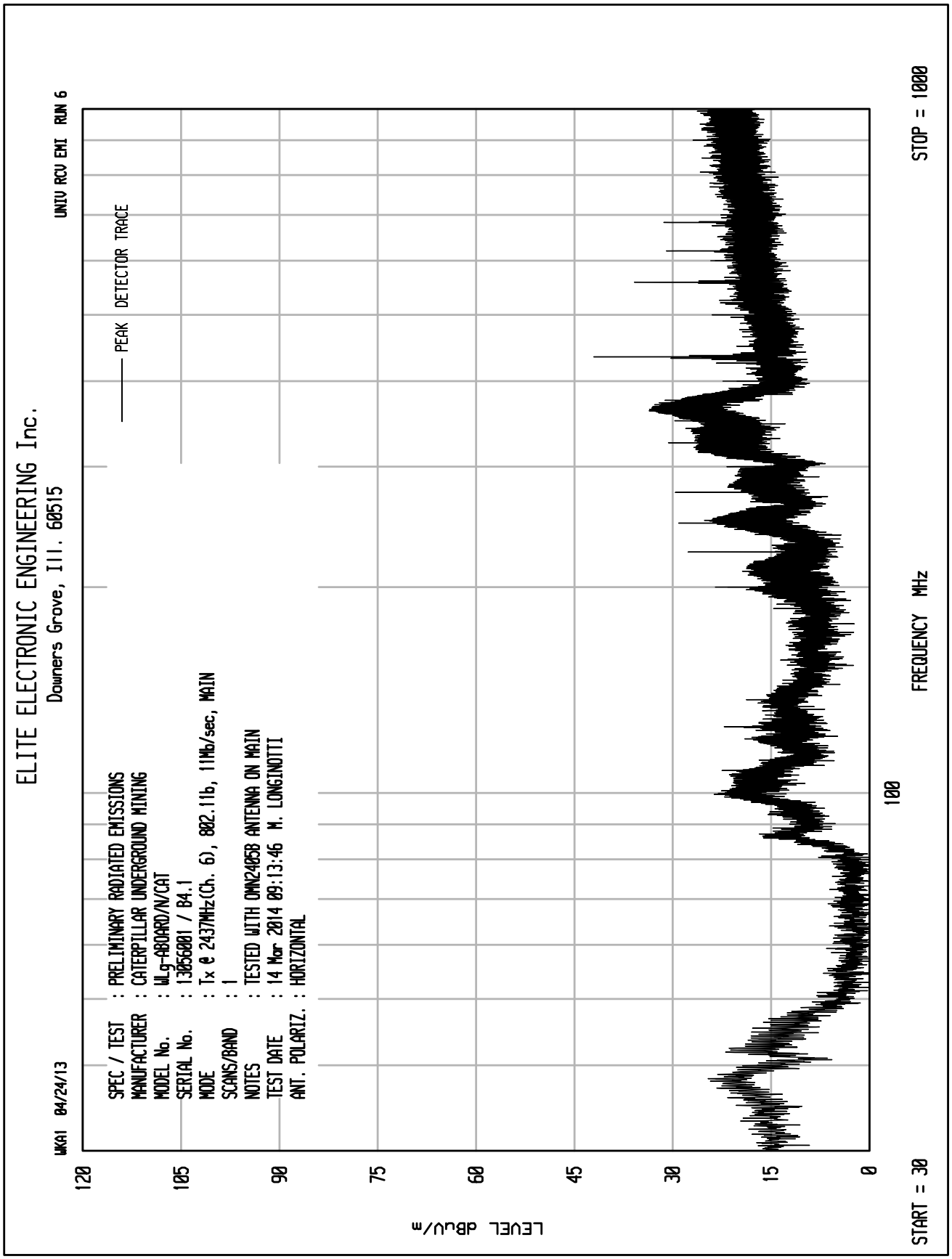

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 5
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch. 1), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 10:57:47 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

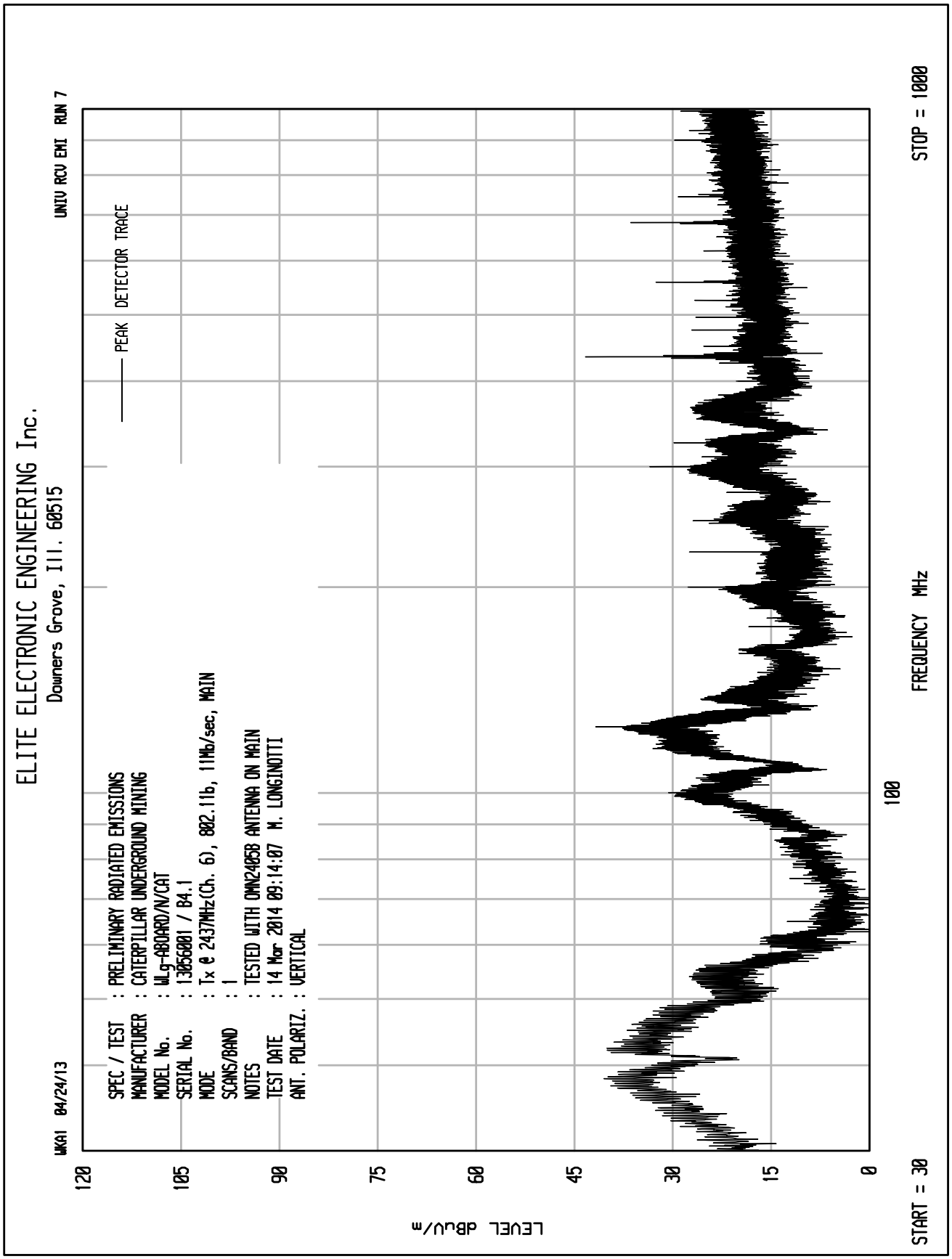

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 7
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 11:17:24 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

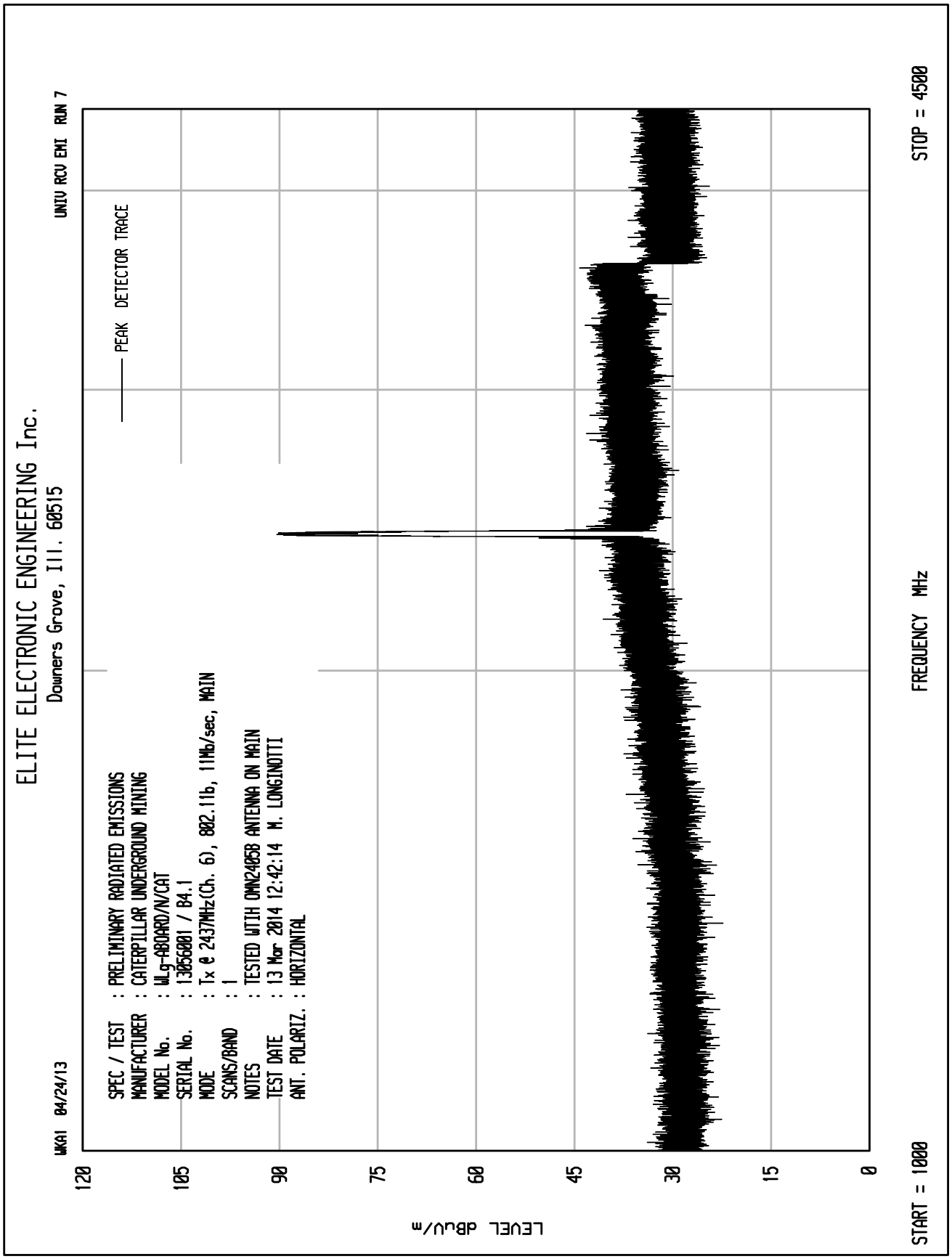

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 8
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 11:21:56 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

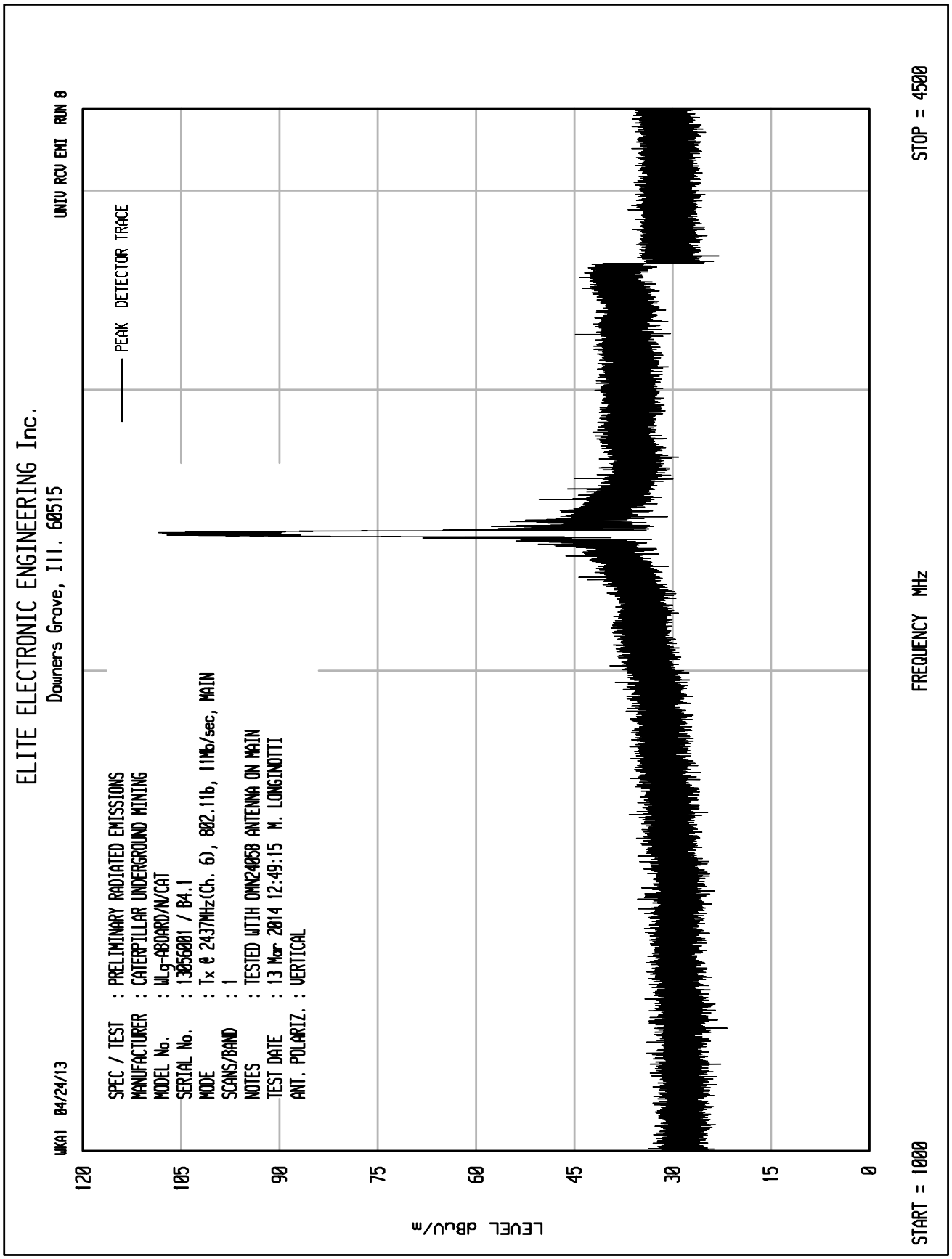

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 14
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (CH.1), 802.11B, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 13:34:30 R. KING
ANT. POLARIZ. : HORIZONTAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

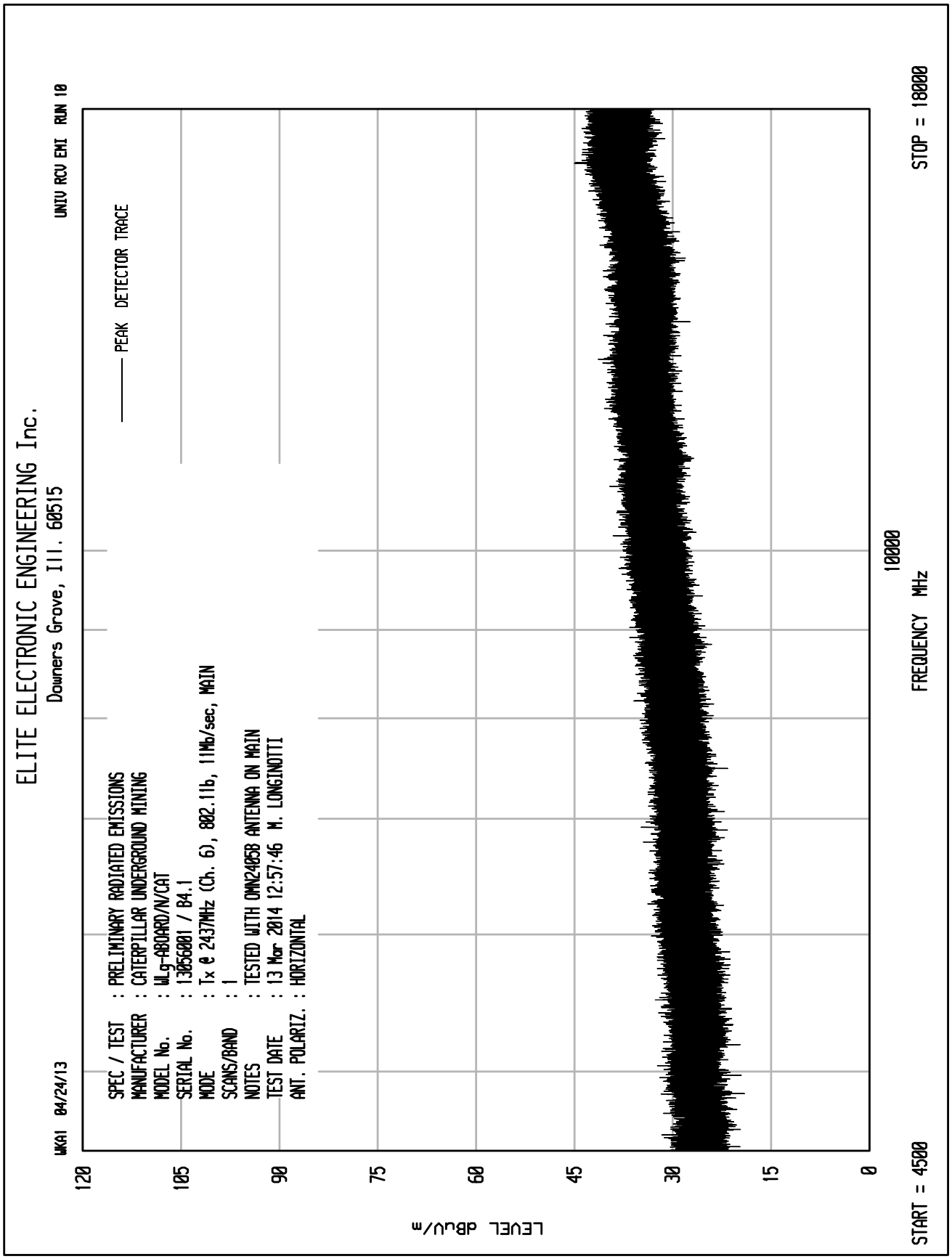

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 13
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (CH.1), 802.11B, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 13:28:33 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

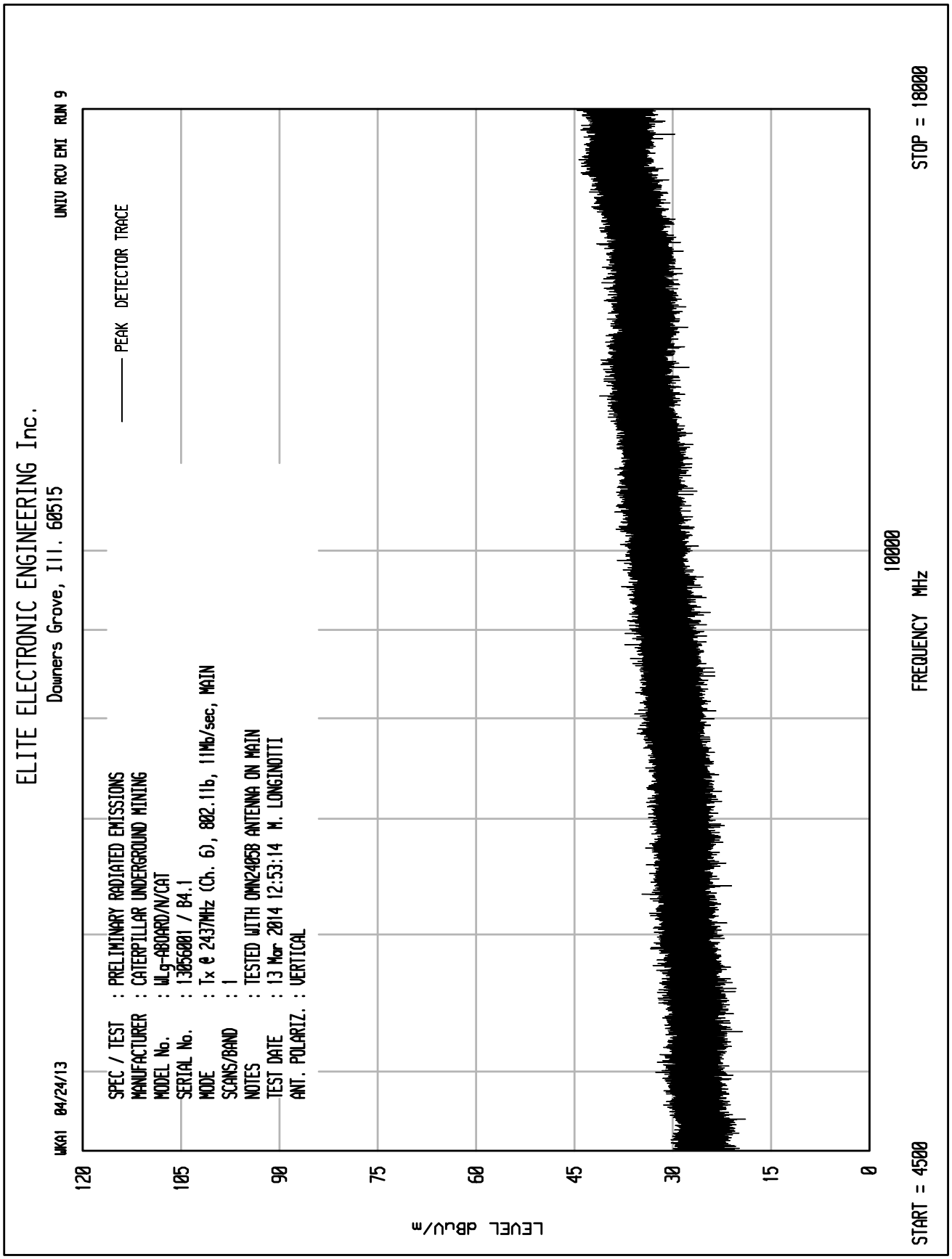

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 6
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch. 6), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:13:46 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

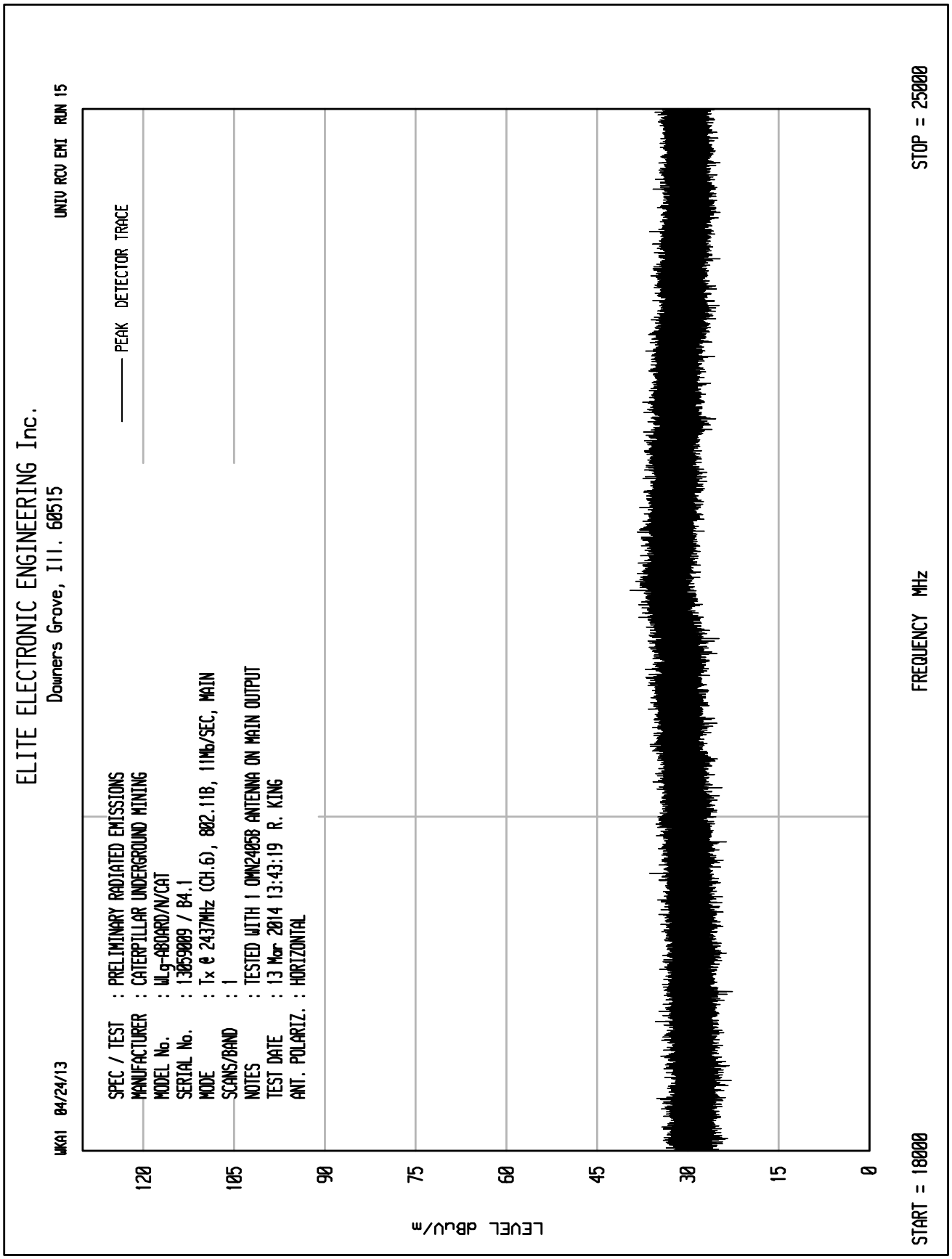

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 7
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch. 6), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:14:07 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

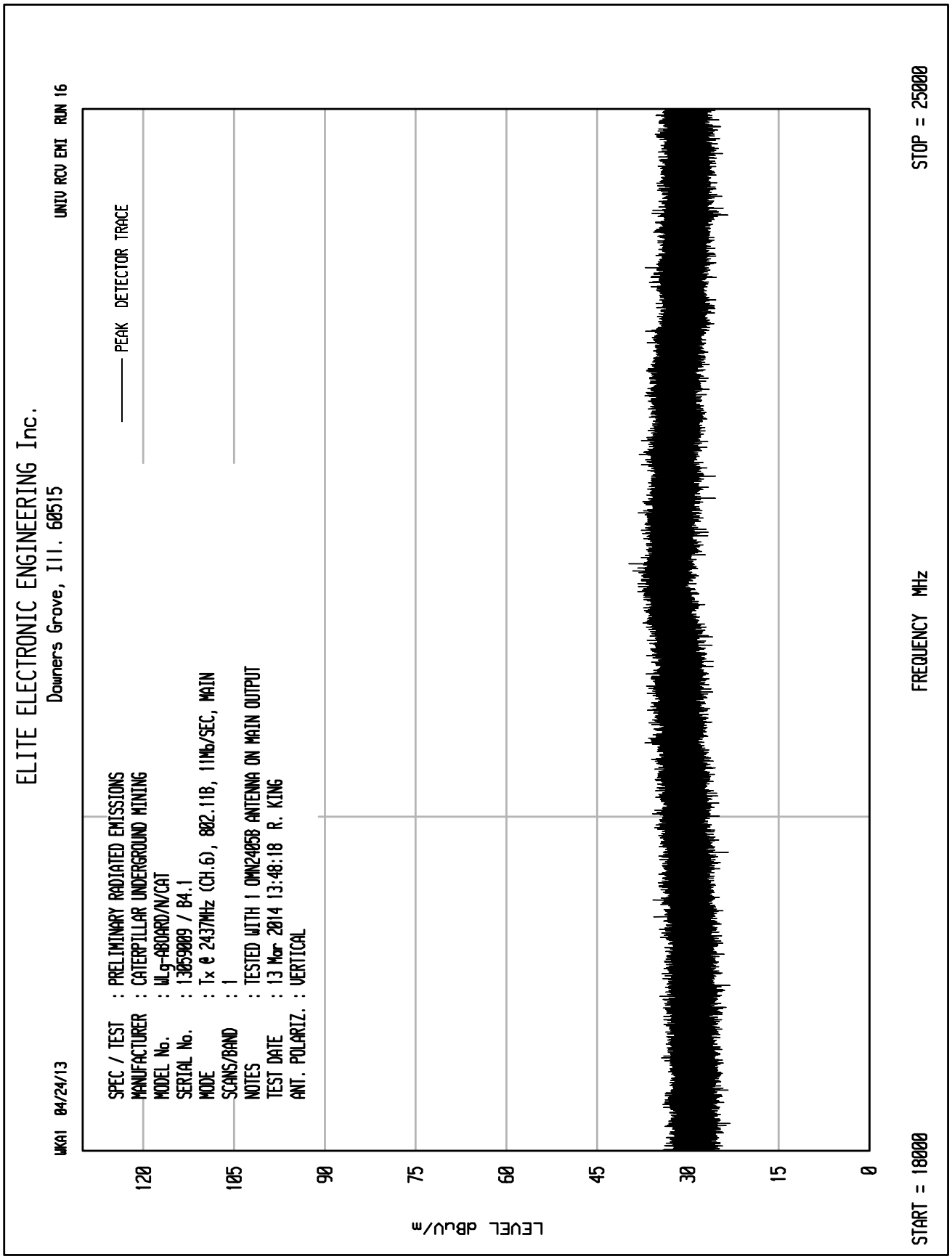

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 7
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch. 6), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 12:42:14 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

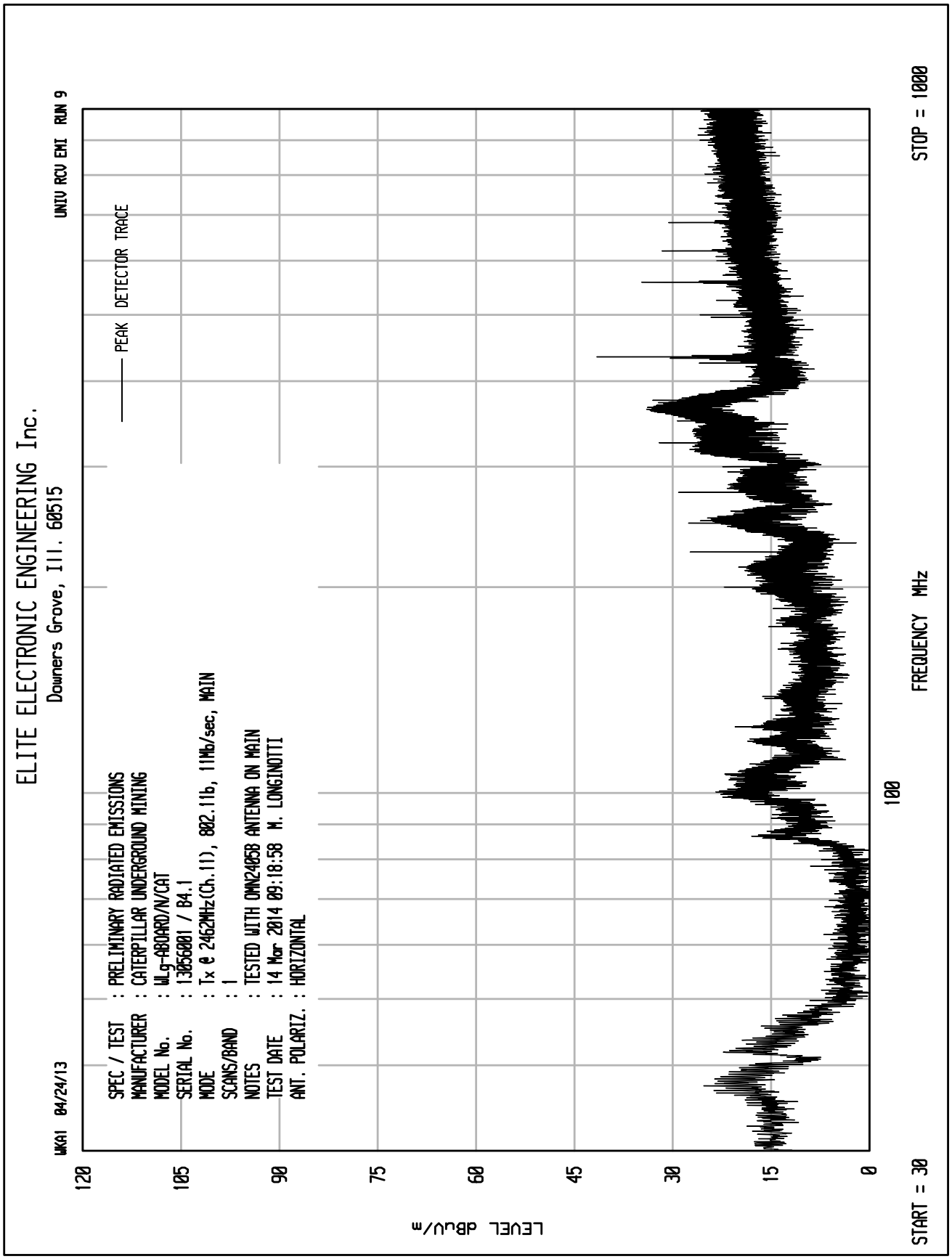

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 8
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch. 6), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 12:49:15 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

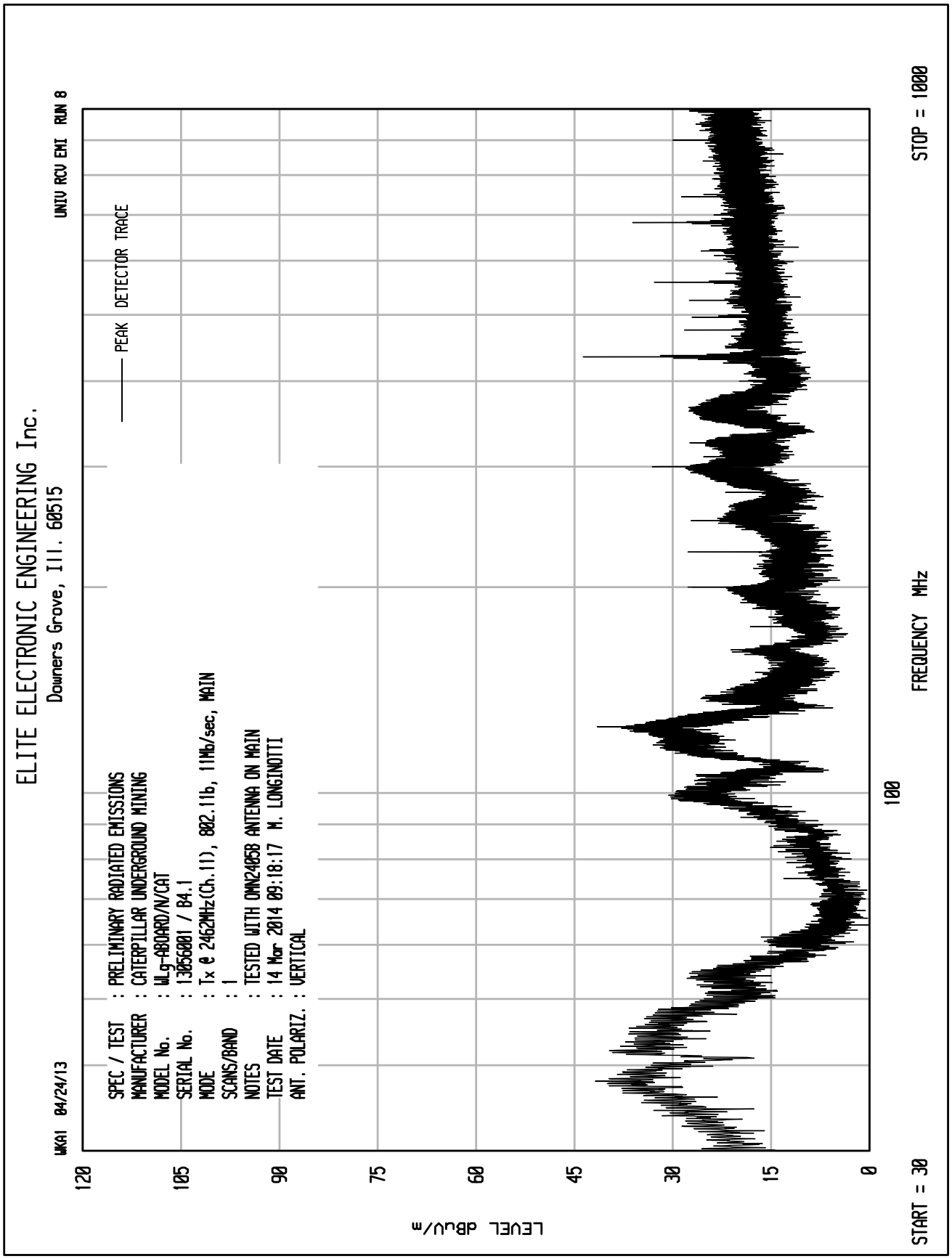

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 10
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 12:57:46 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

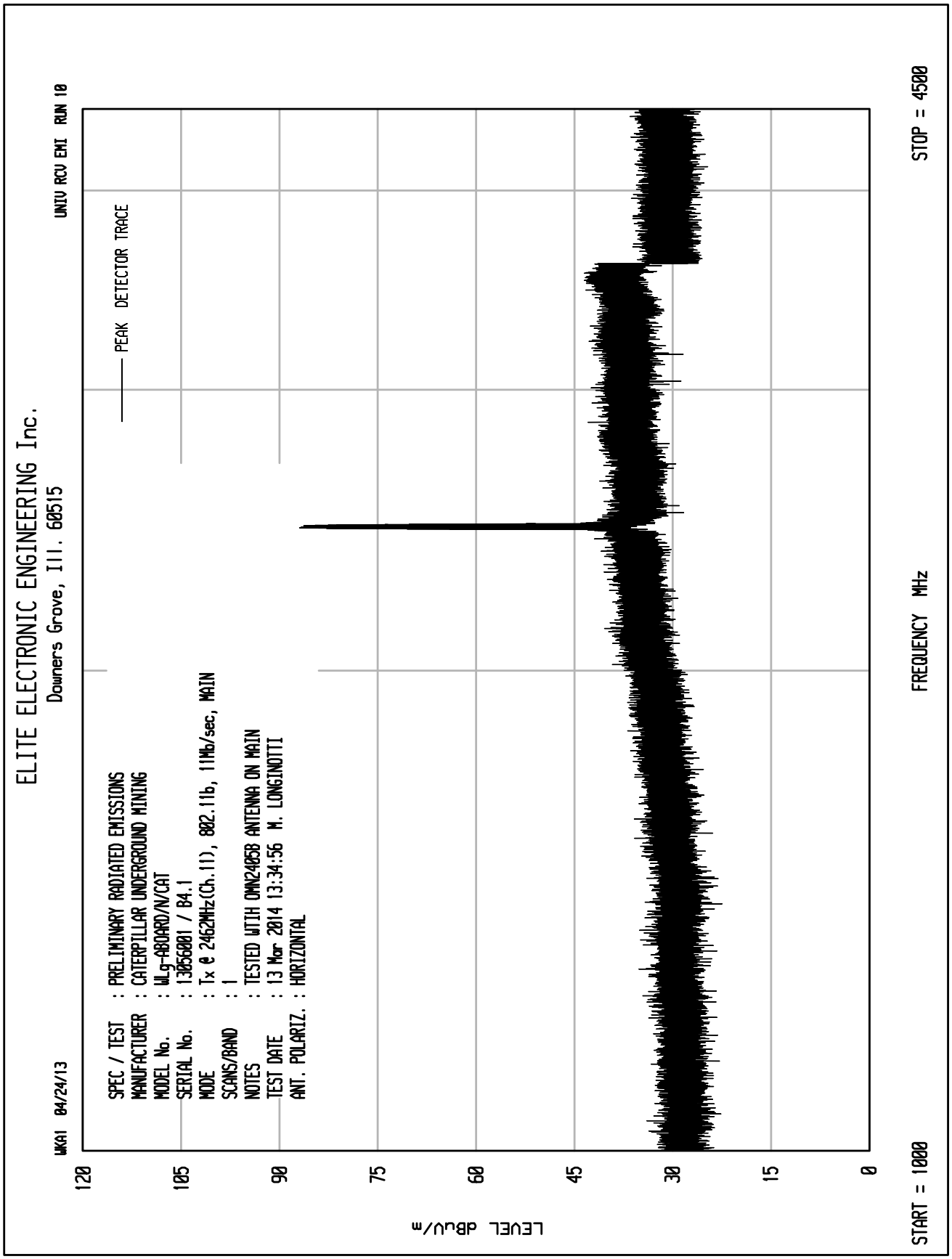

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 9
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 12:53:14 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

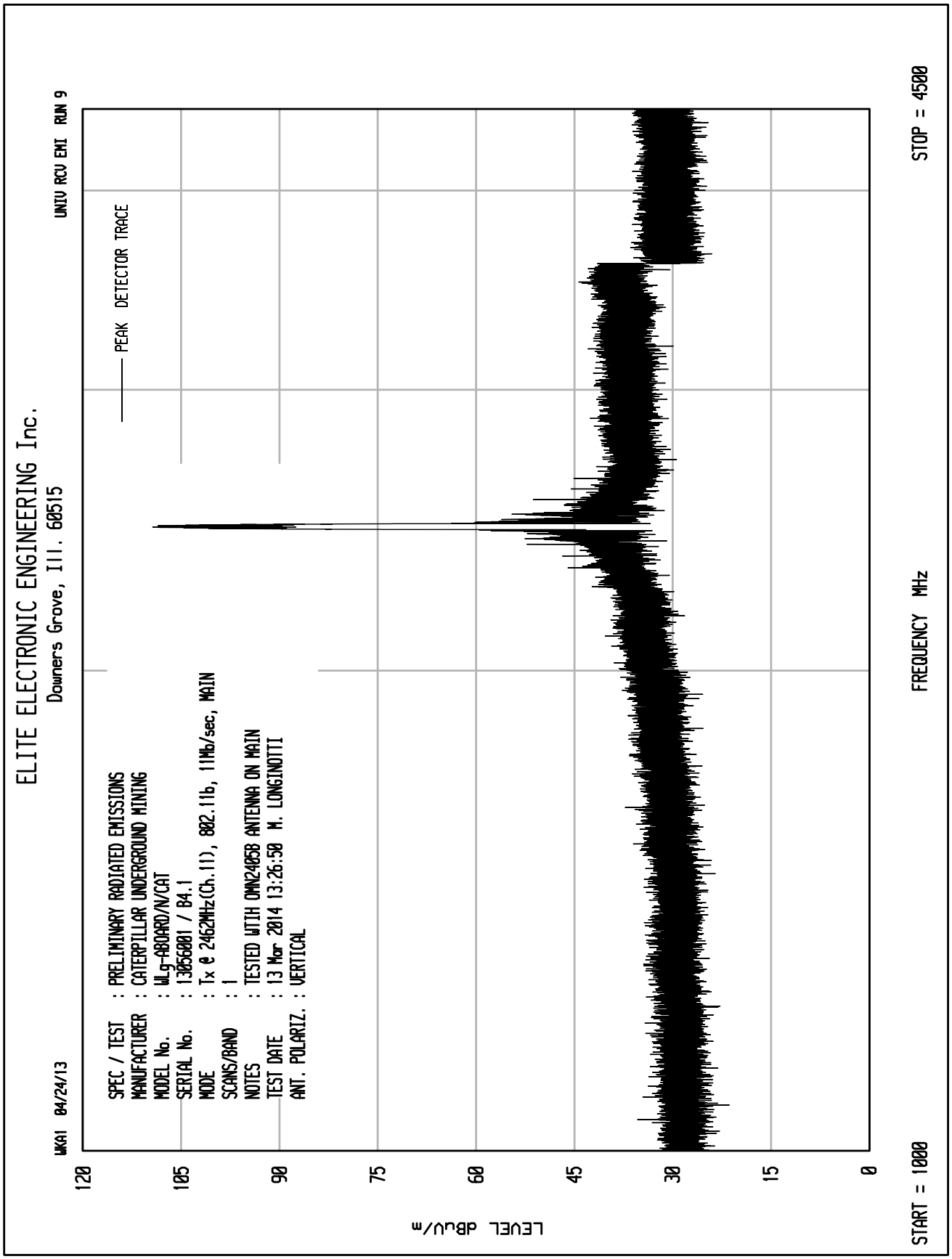

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 15
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH.6), 802.11B, 11Mb/SEC, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 13:43:19 R. KING
ANT. POLARIZ. : HORIZONTAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

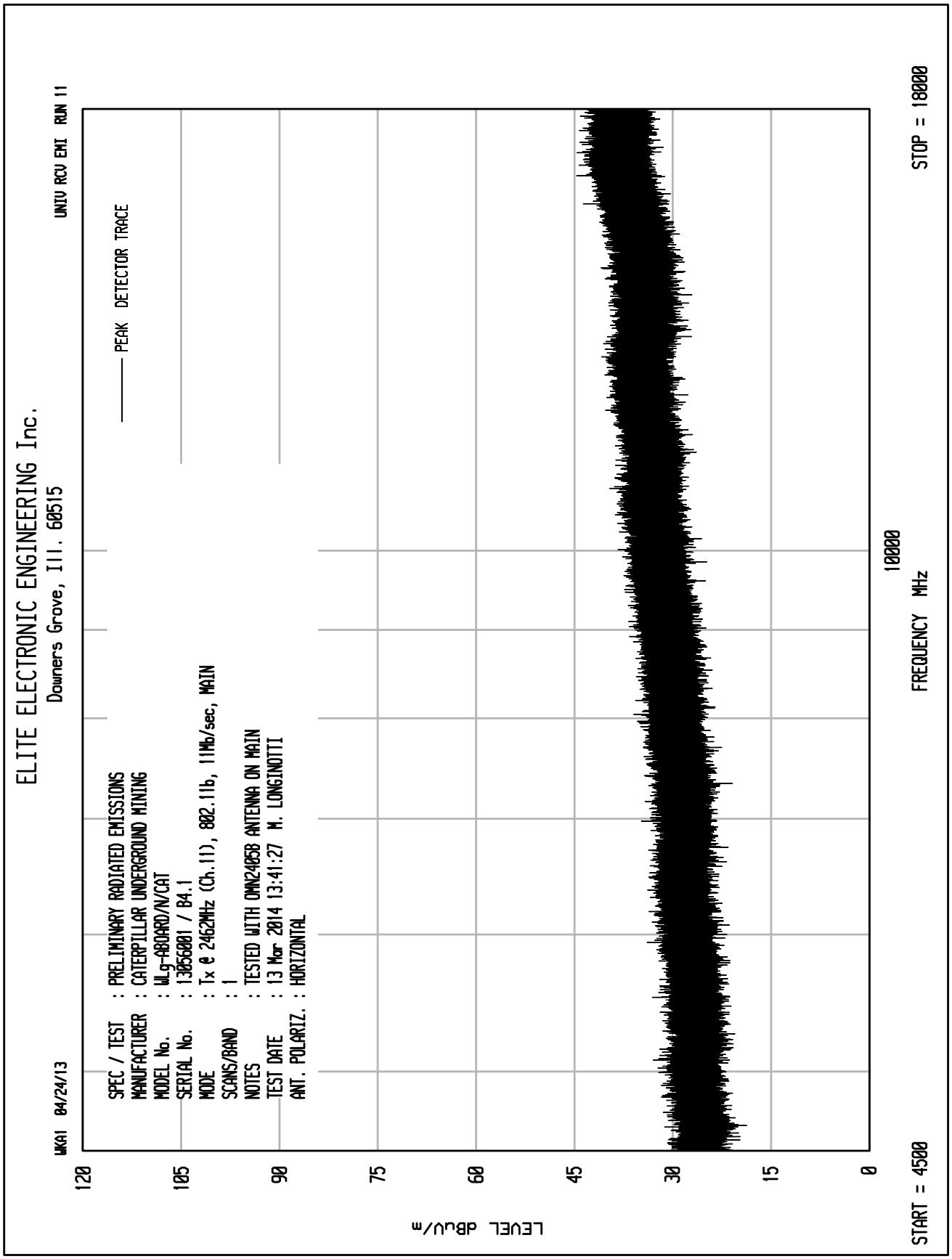

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH.6), 802.11B, 11Mb/SEC, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 13:48:18 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

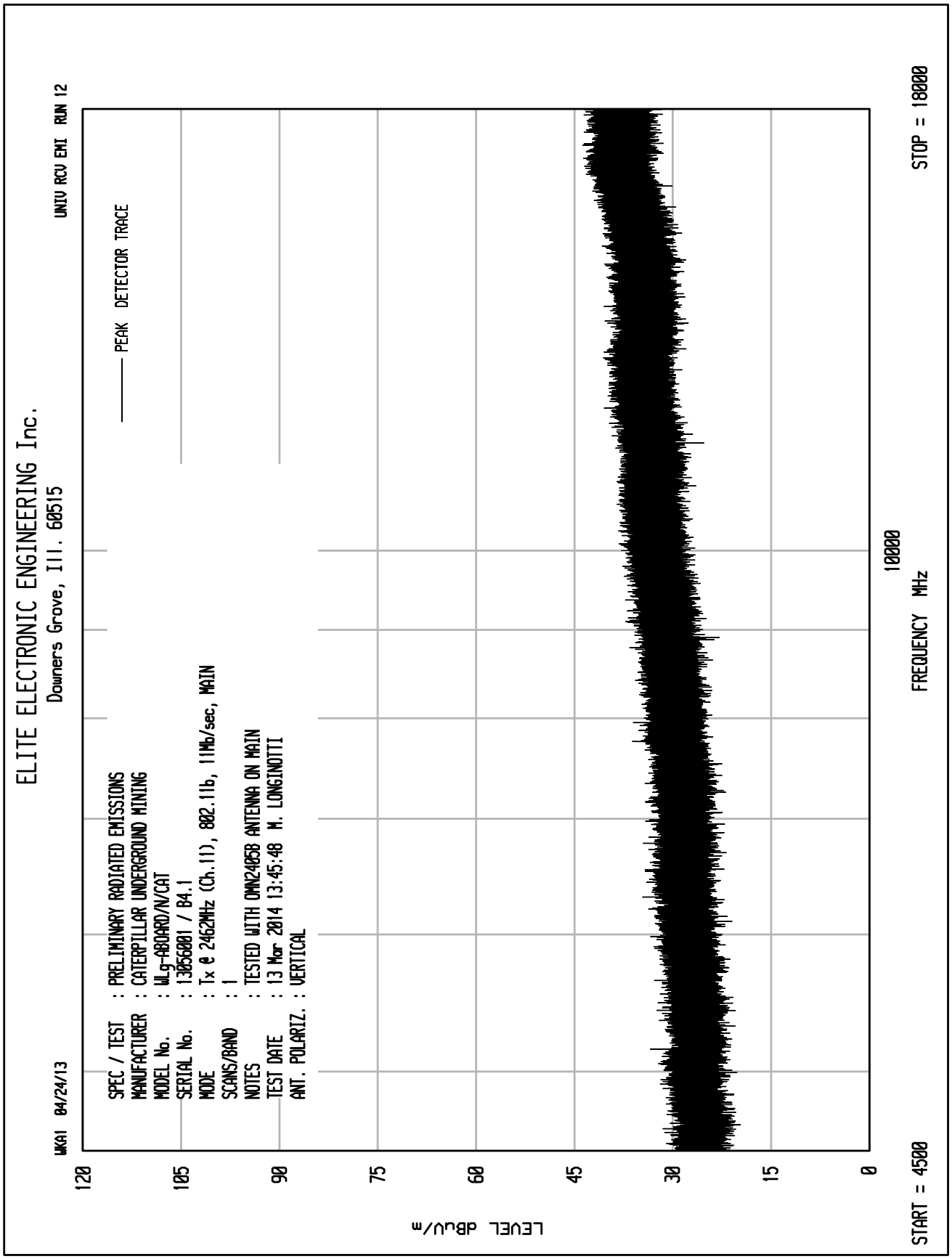

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 9
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:18:58 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

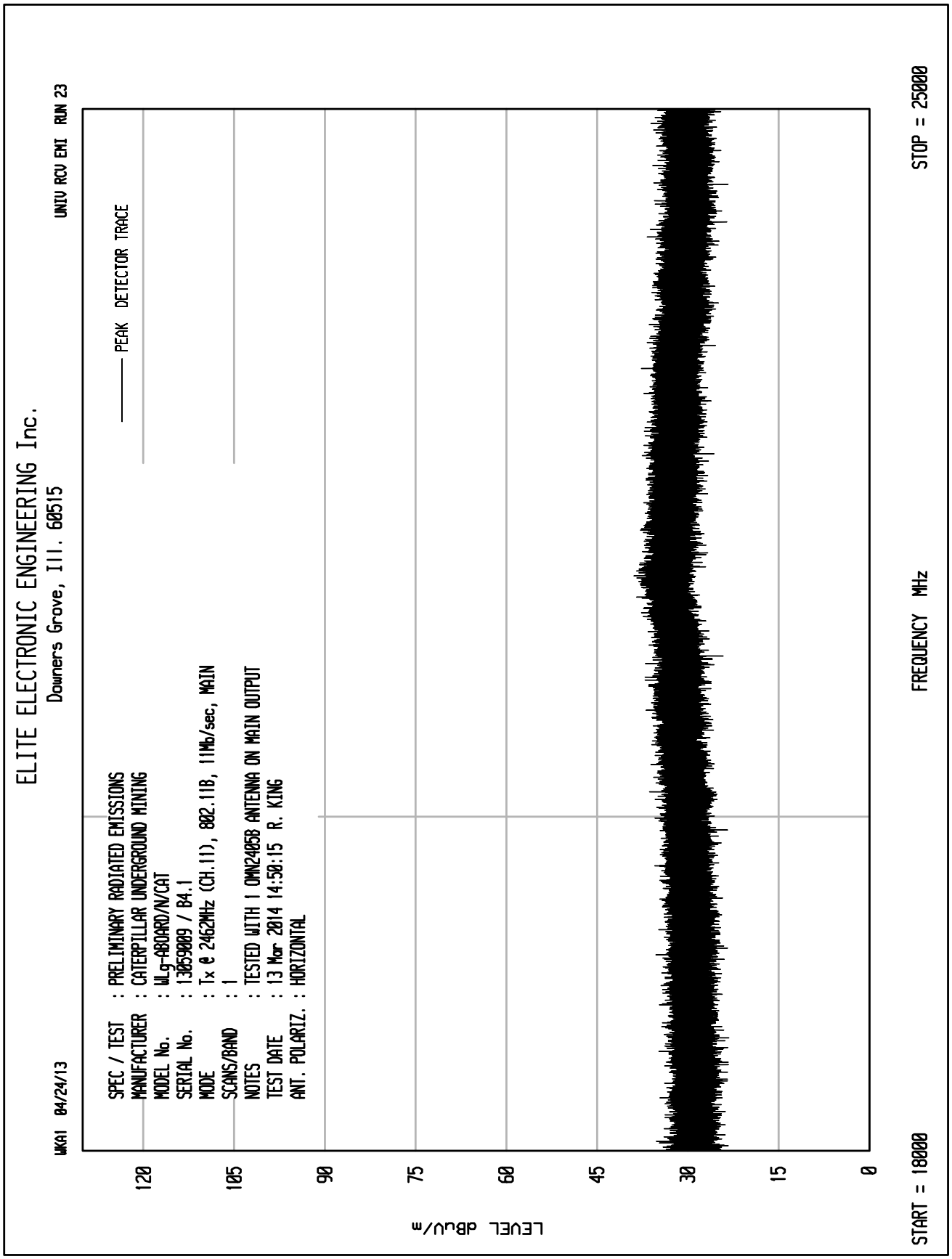

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 8
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMNI2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:18:17 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

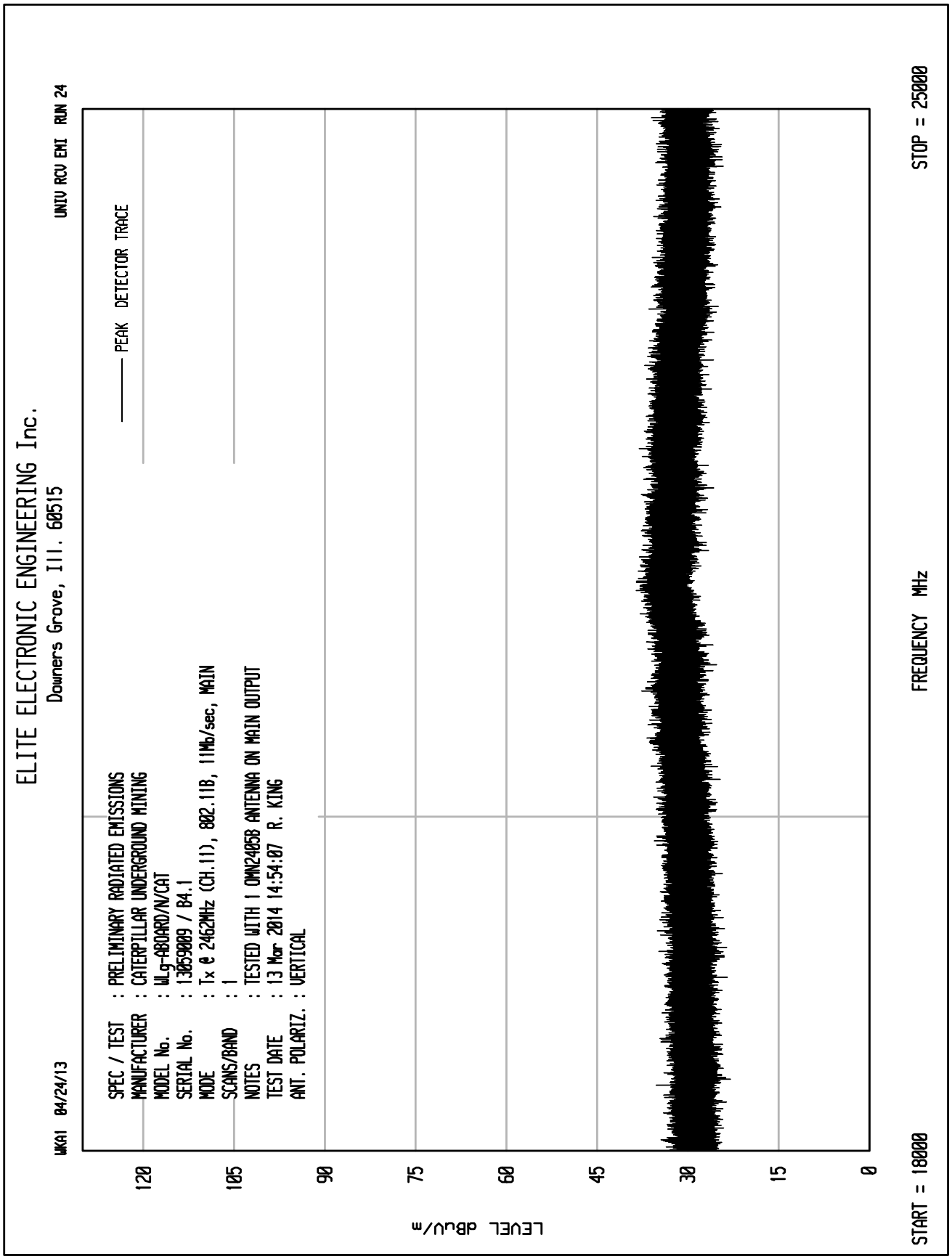

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 10
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 13:34:56 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

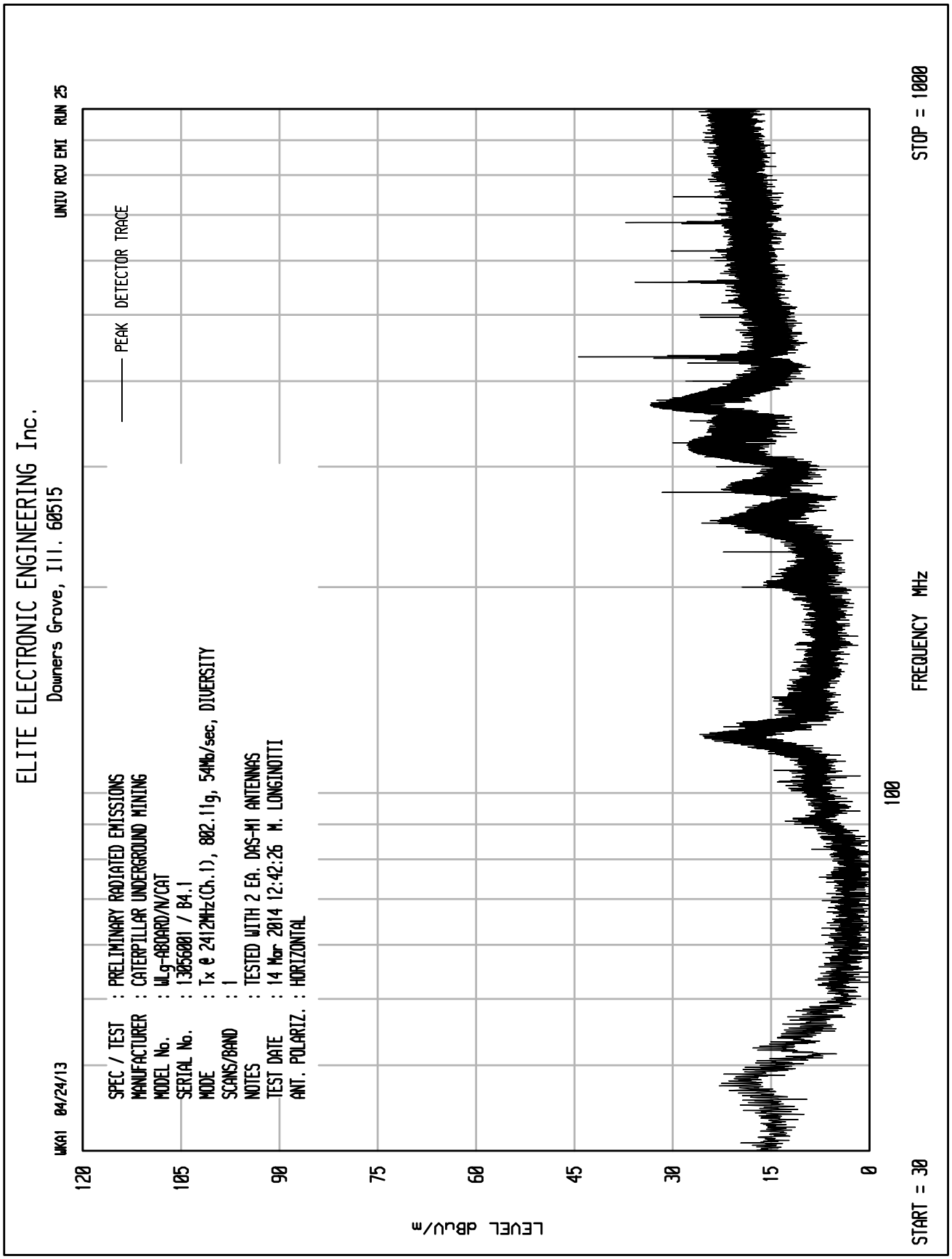

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 9
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 13:26:50 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

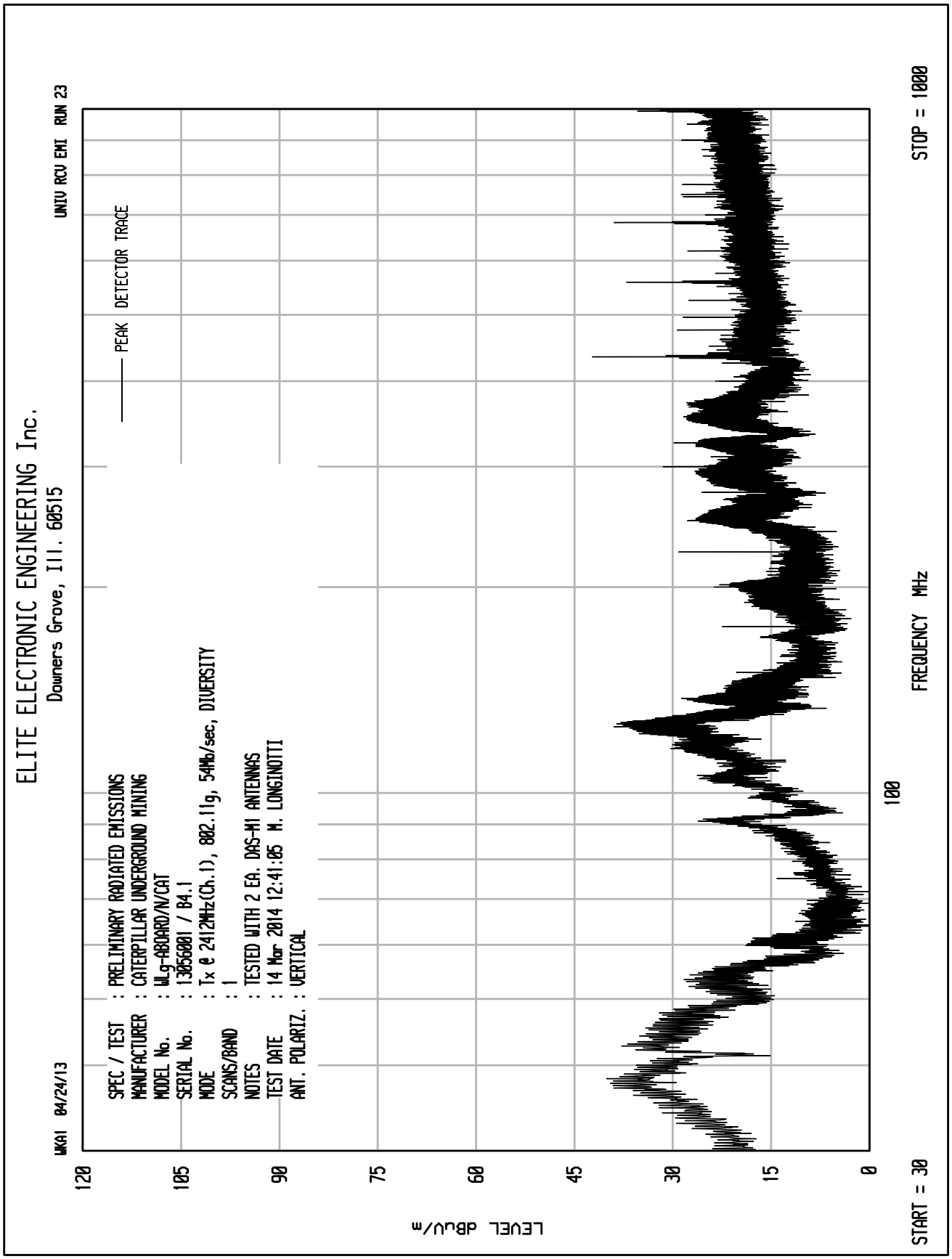

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 11
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 13:41:27 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

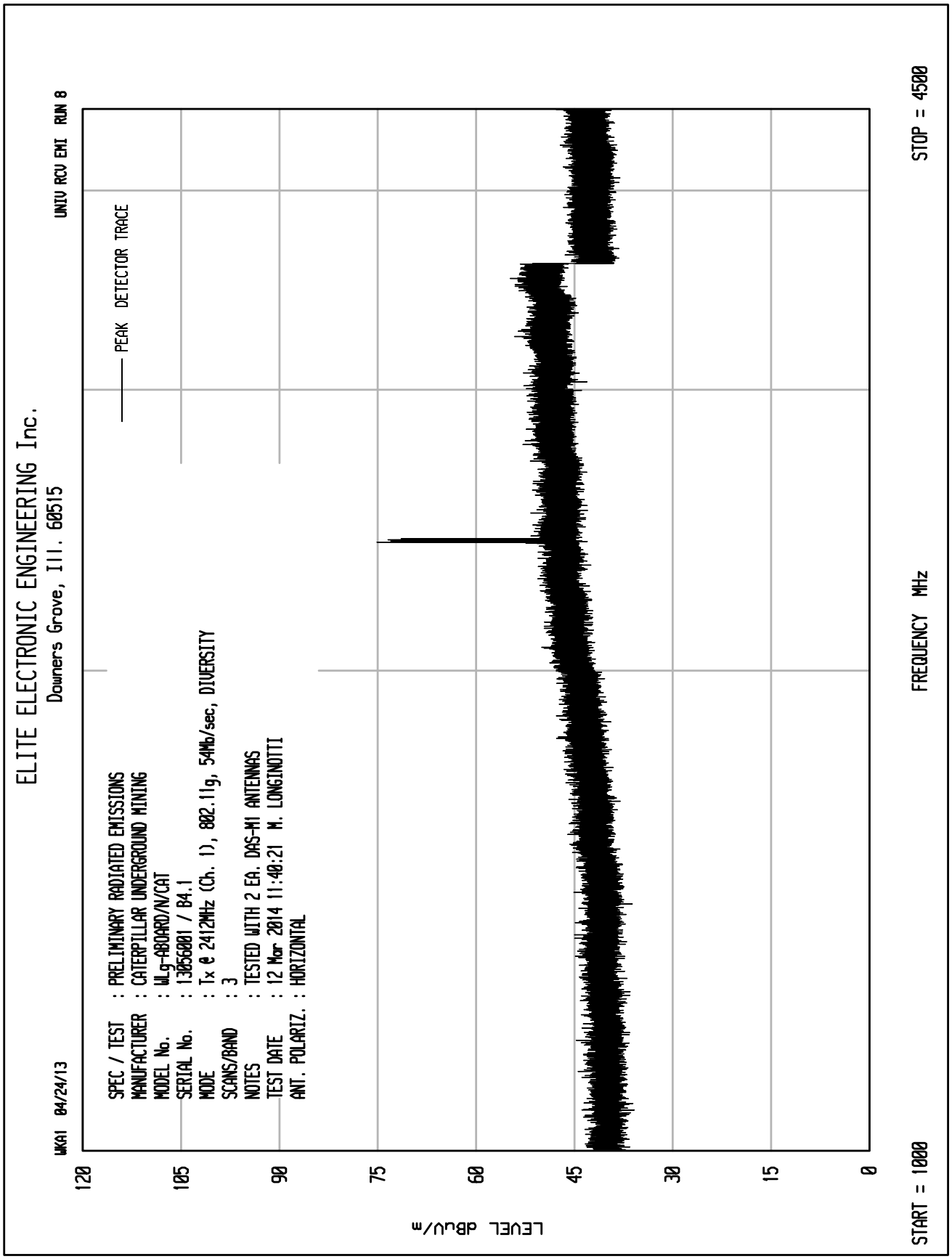

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 12
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11b, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 13:45:48 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

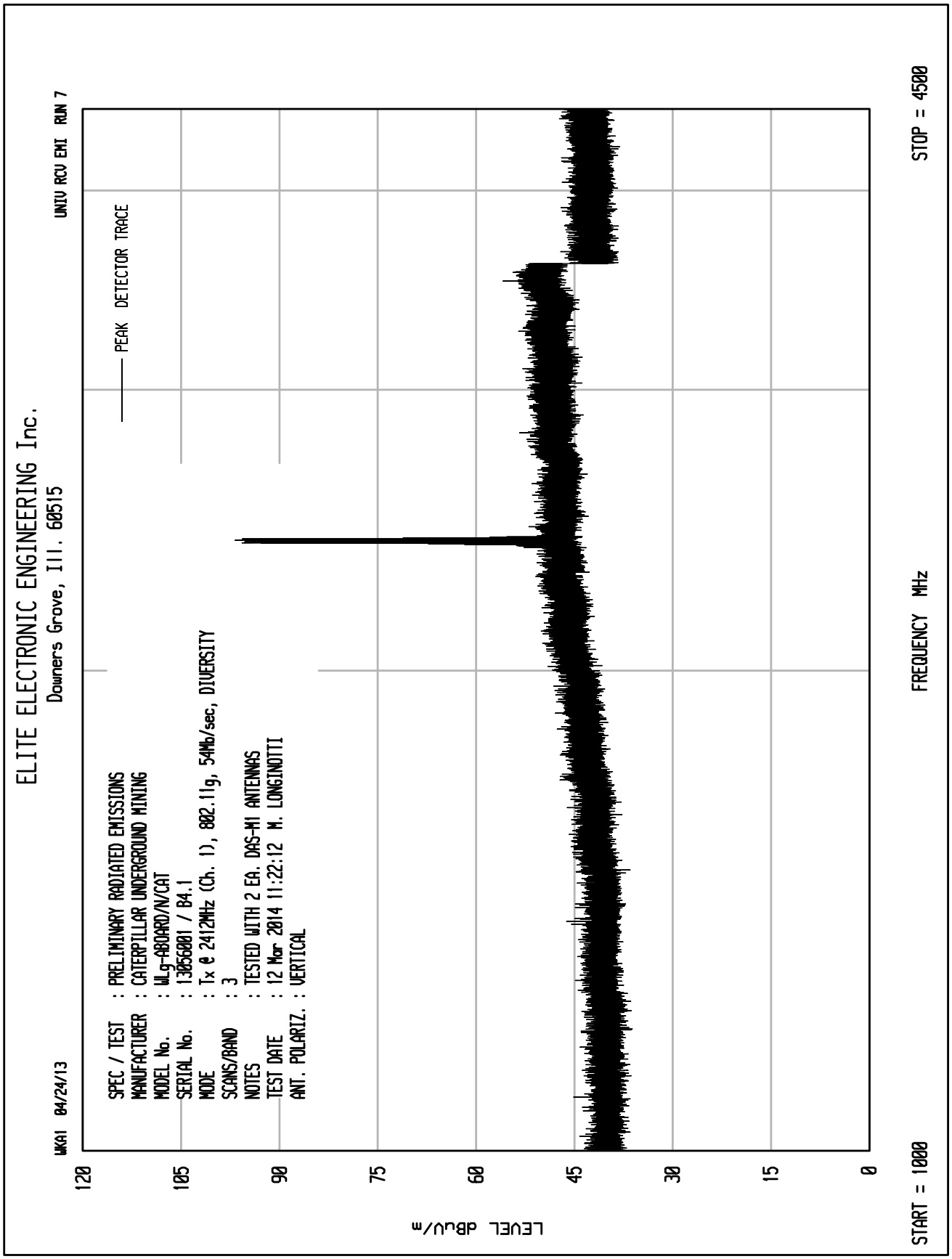

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 23
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11B, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:50:15 R. KING
ANT. POLARIZ. : HORIZONTAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

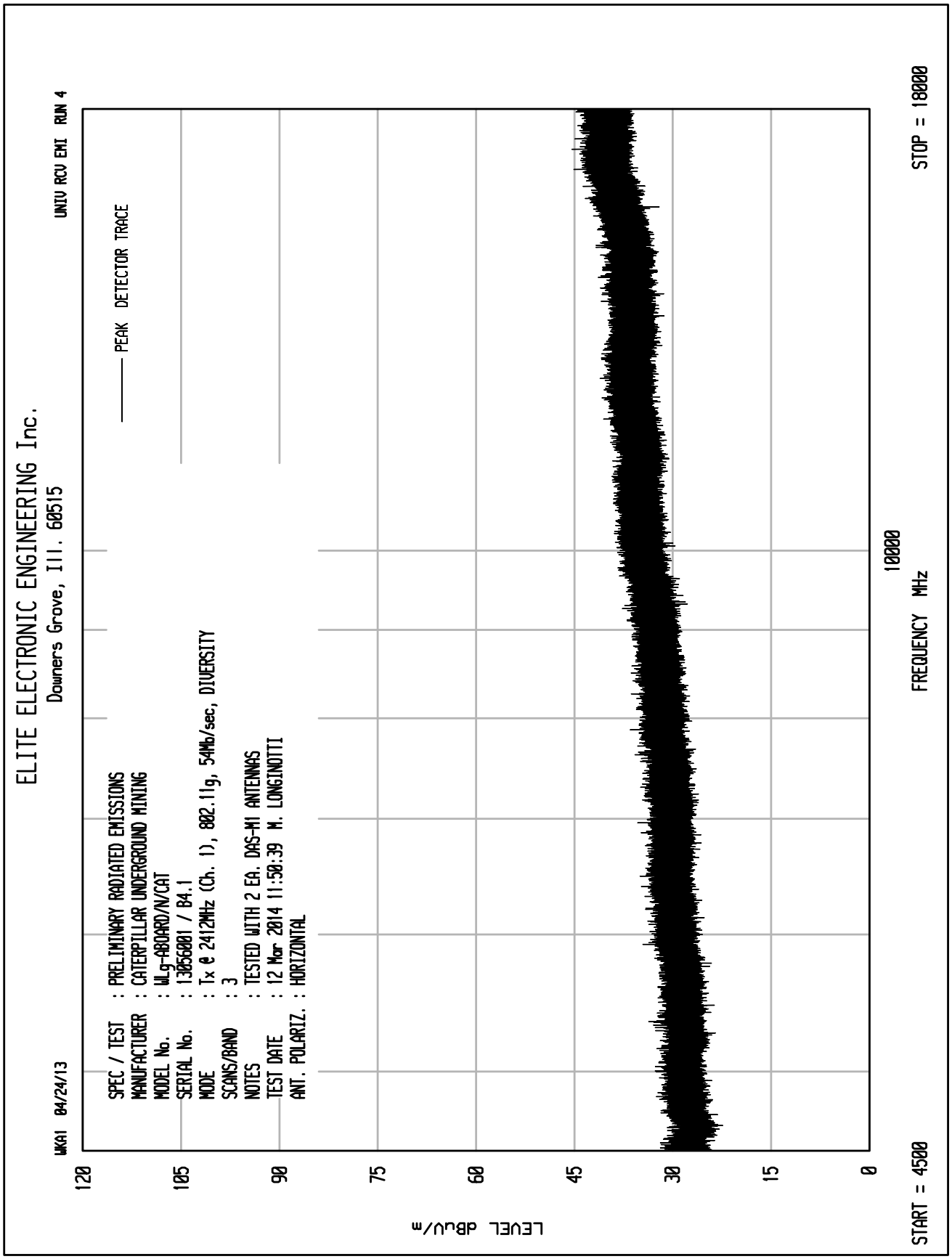

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 24
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11B, 11Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:54:07 R. KING
ANT. POLARIZ. : VERTICAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

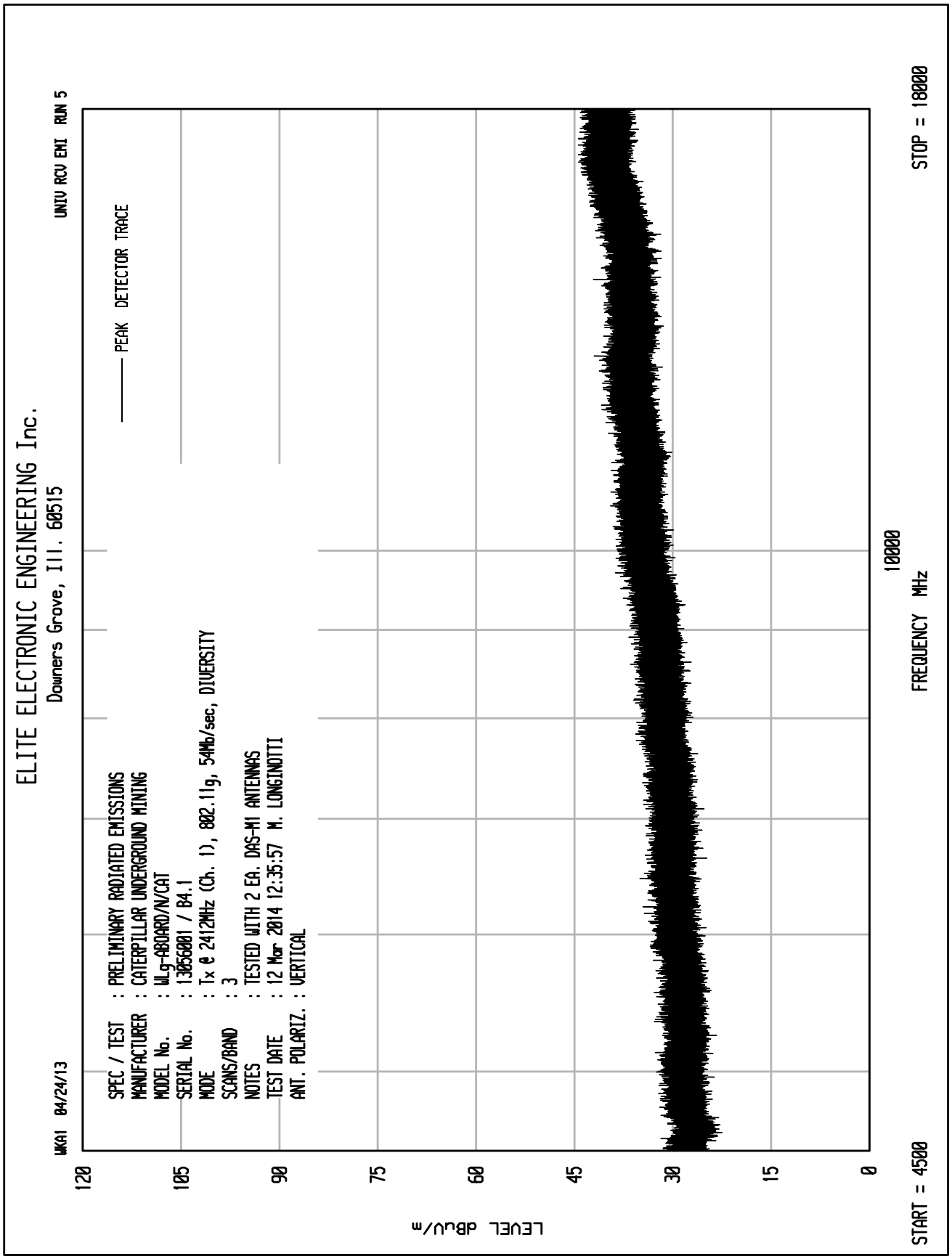

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 25
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 12:42:26 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

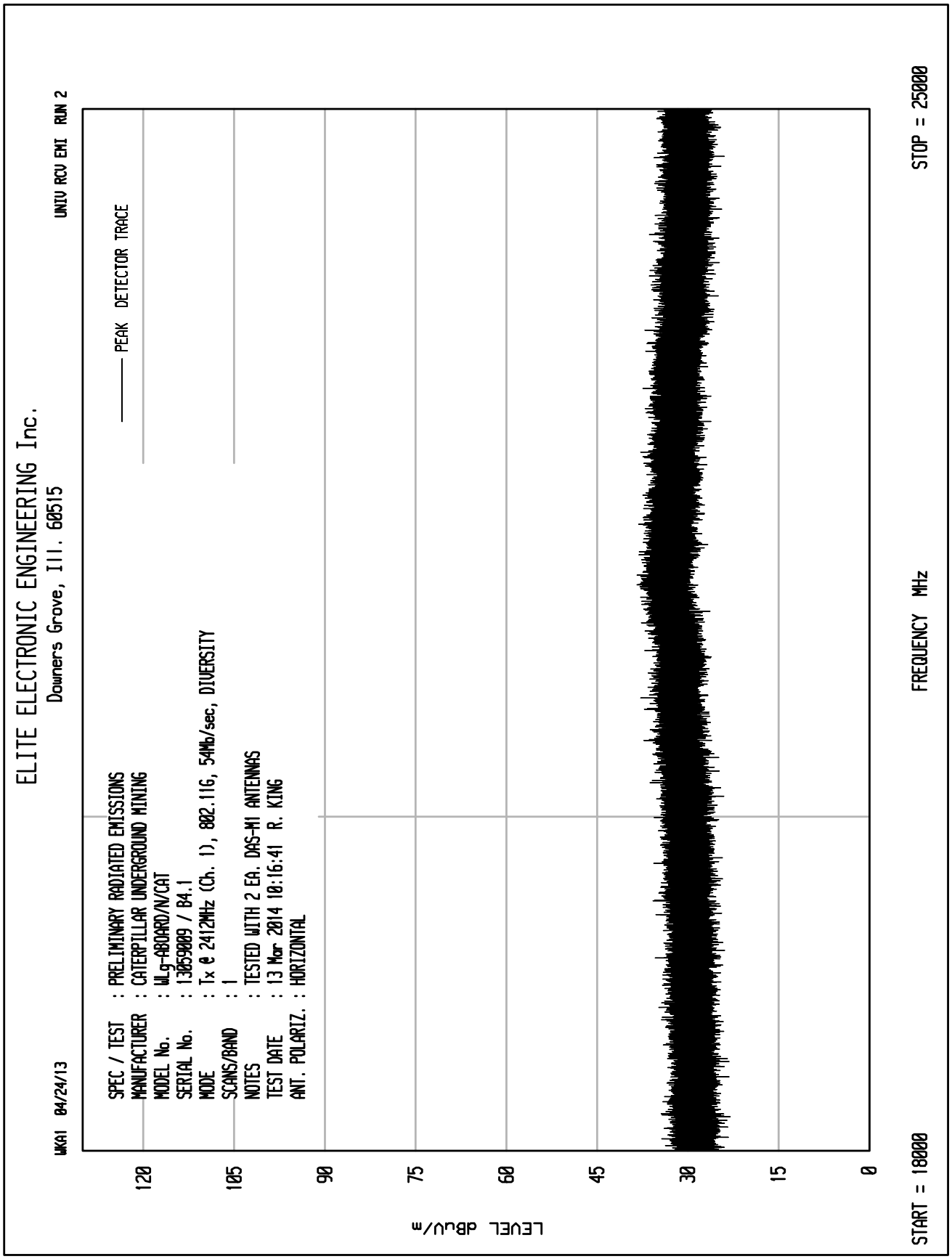

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 23
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 12:41:05 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

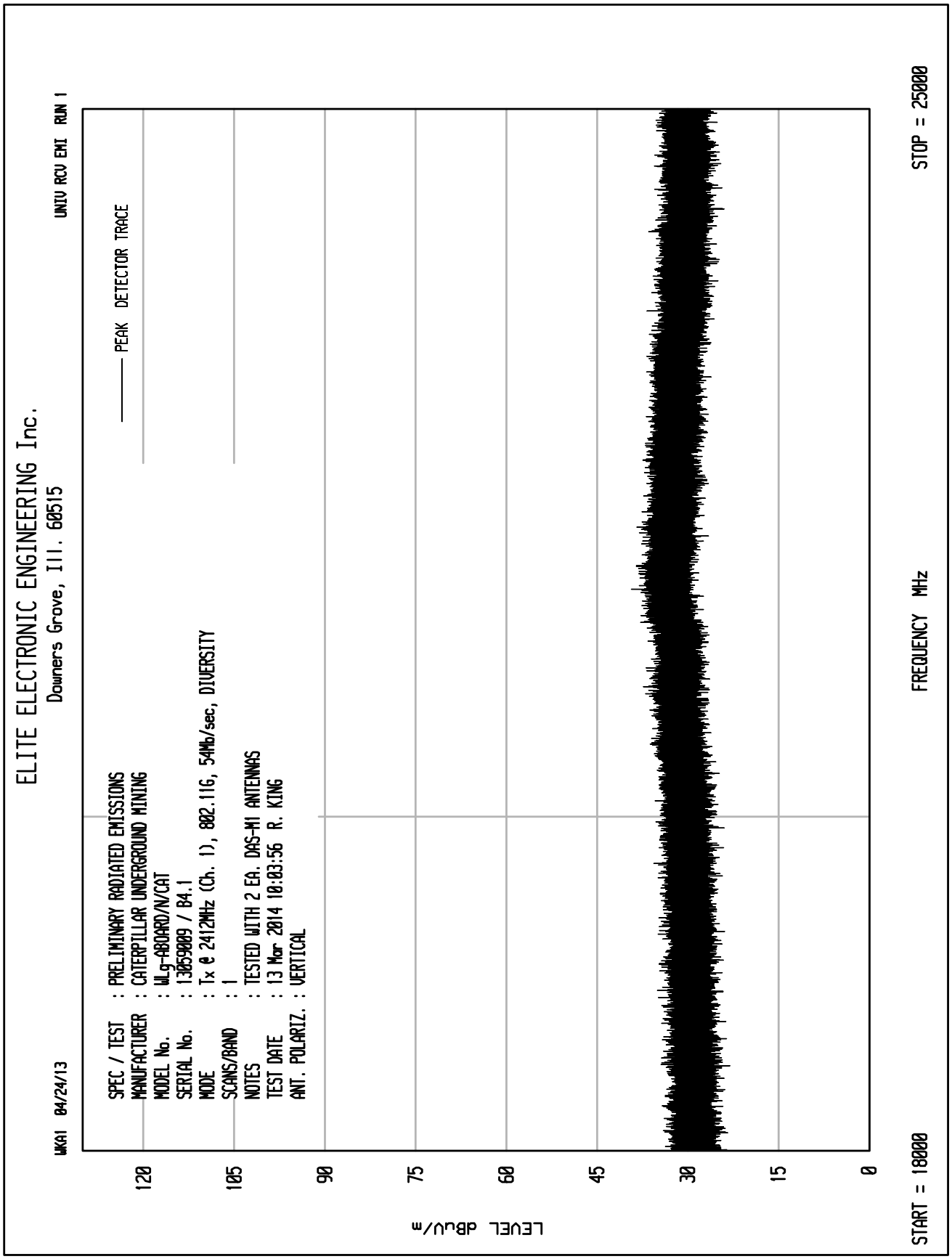

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 8
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 11:40:21 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

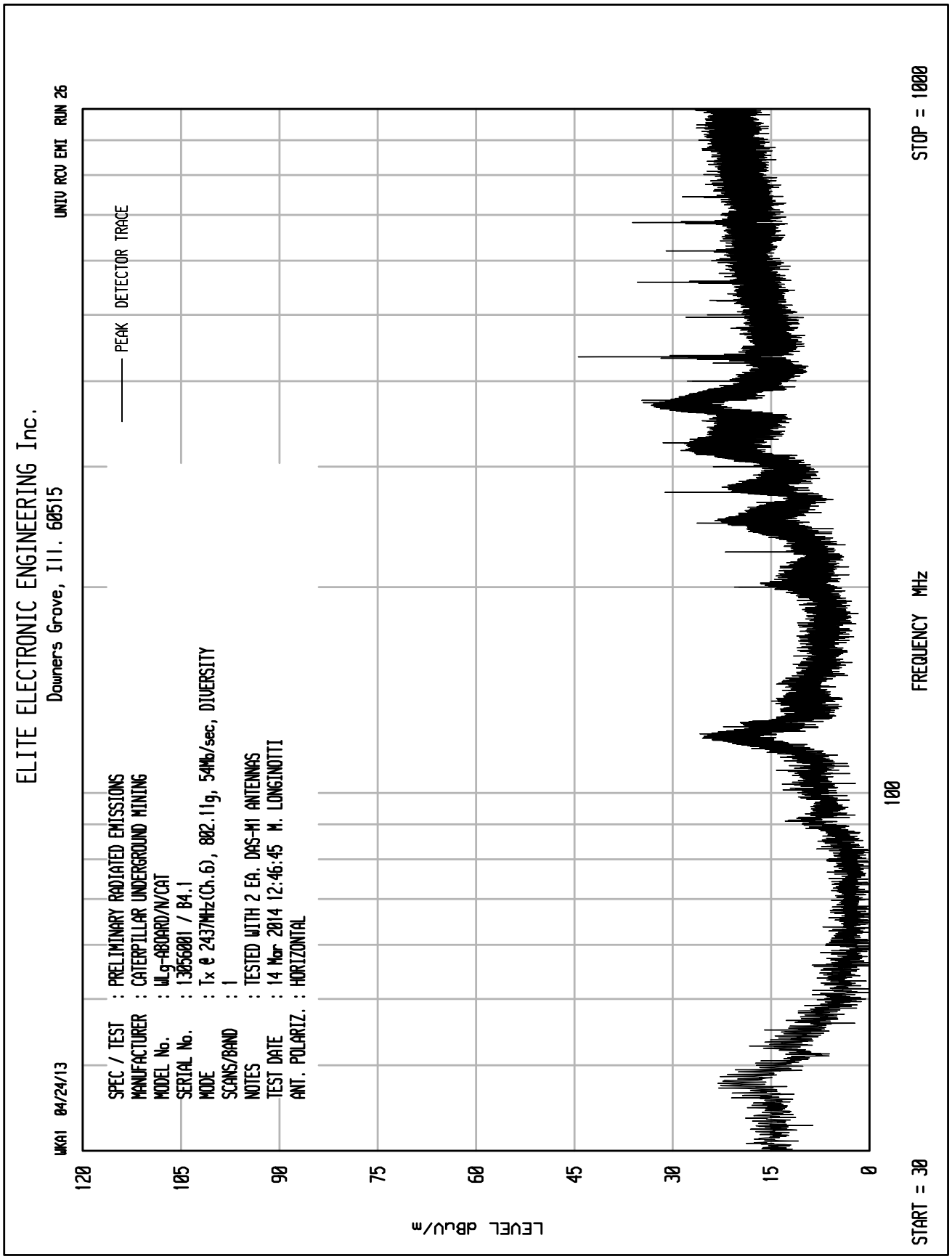

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 7
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 11:22:12 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

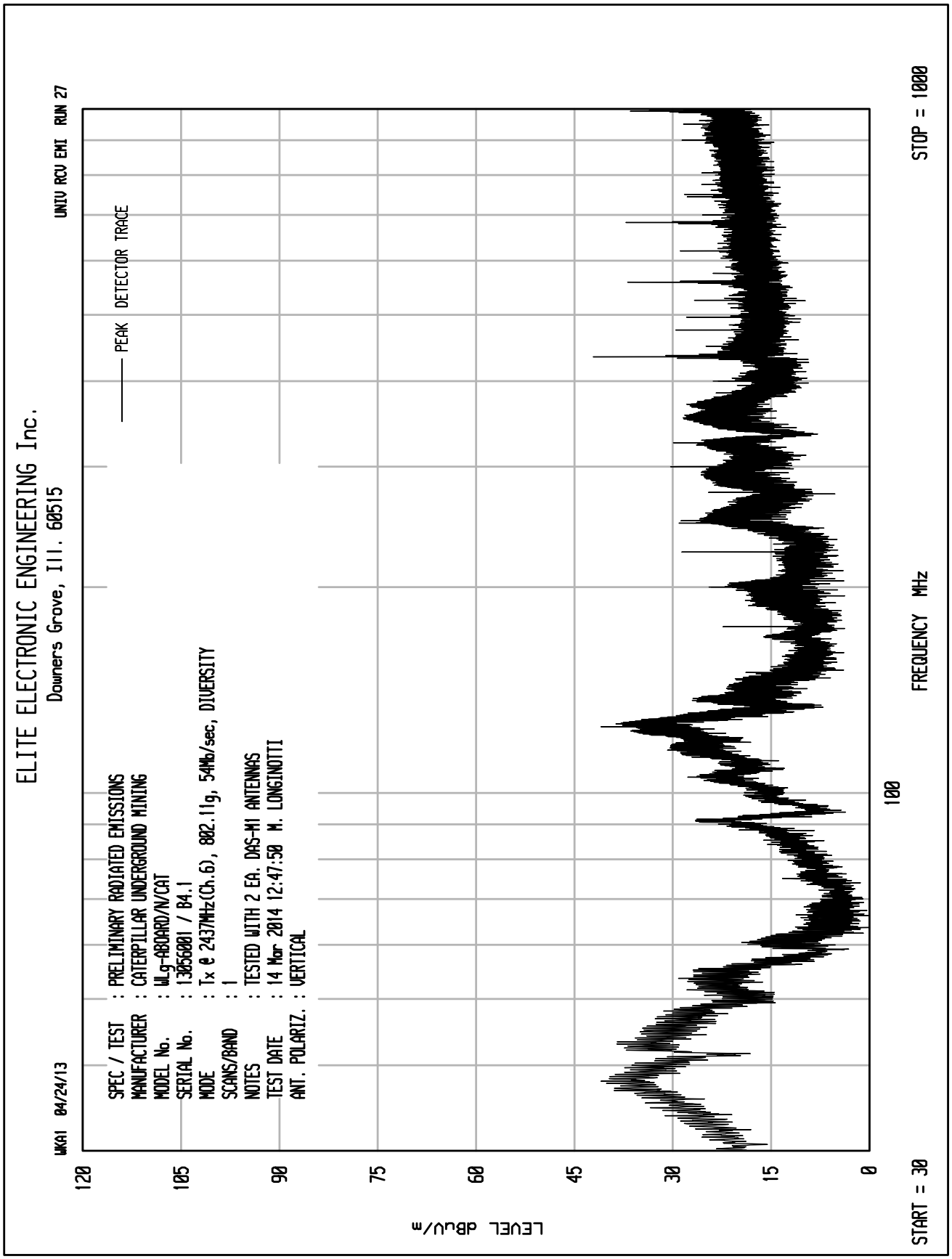

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 4
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 11:50:39 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

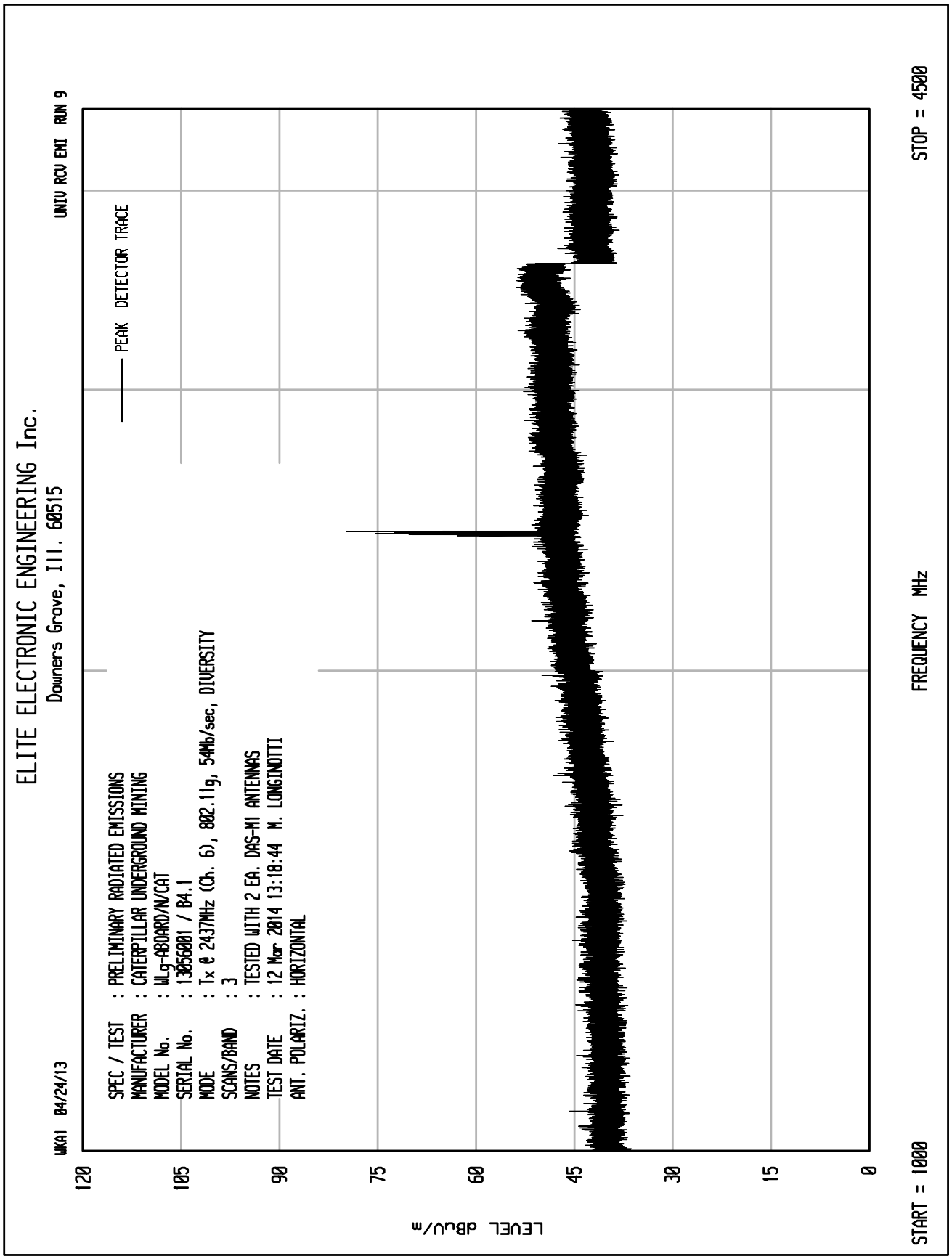

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 5
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 12:35:57 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

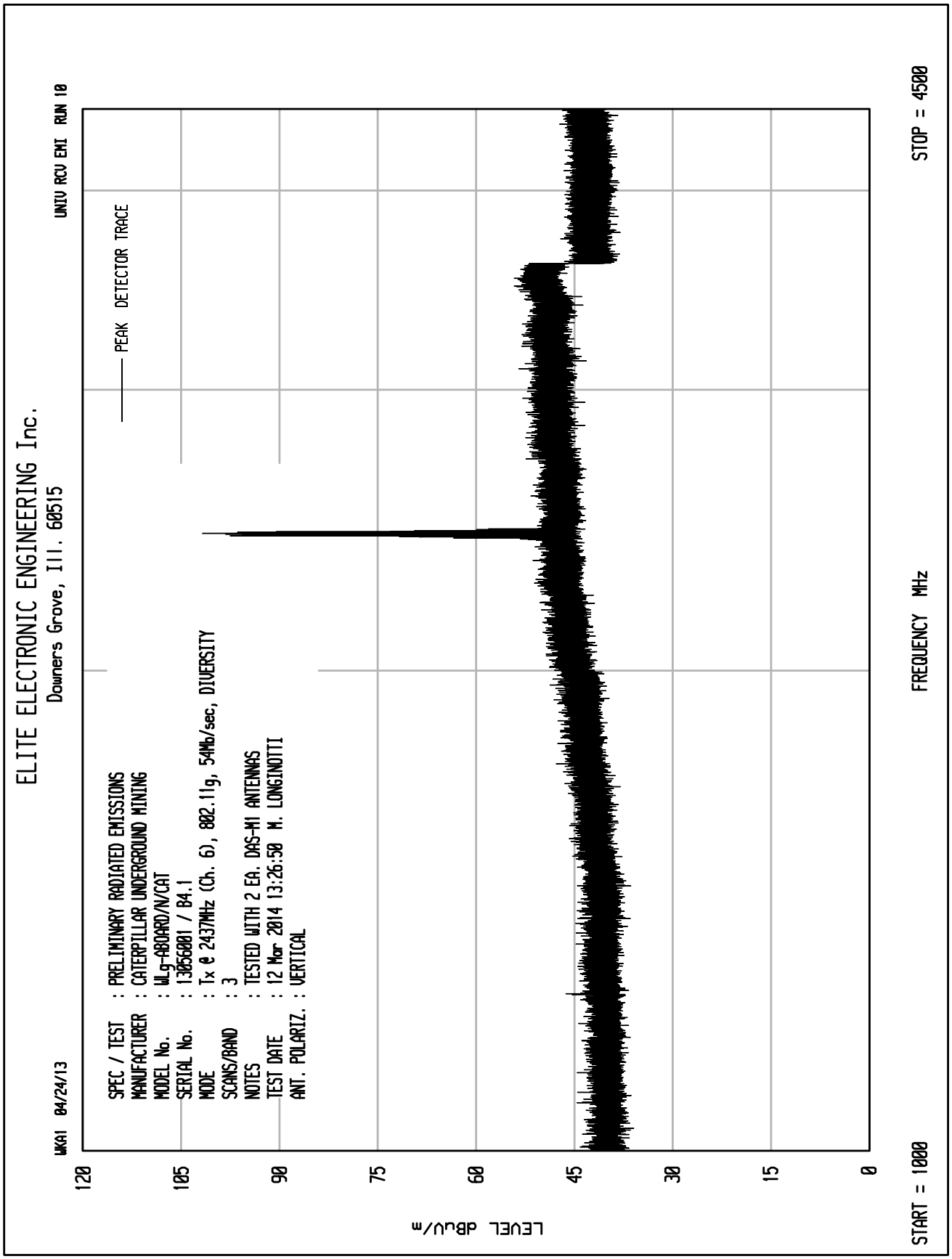

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 2
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11G, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 10:16:41 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

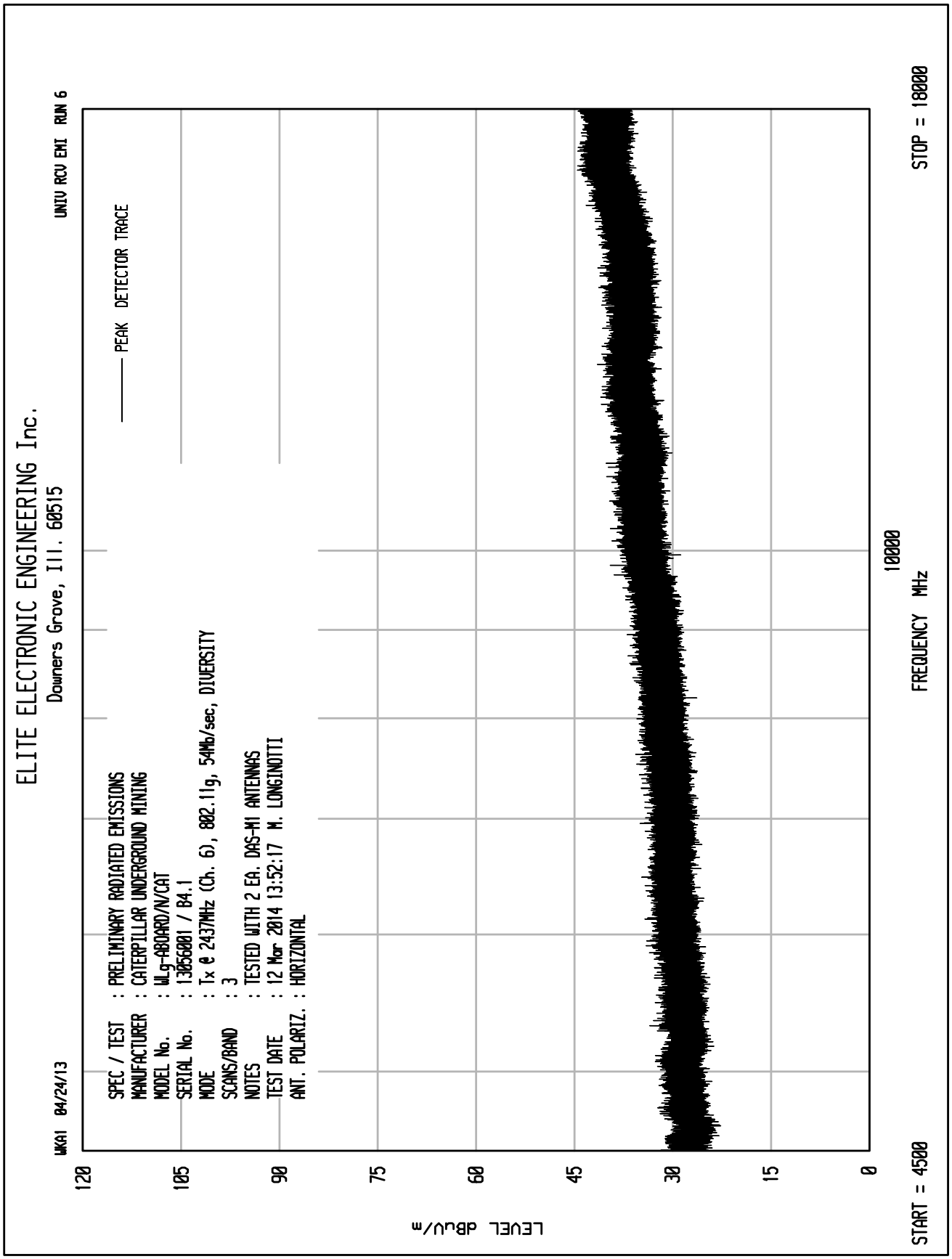

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 1
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11G, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 10:03:56 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

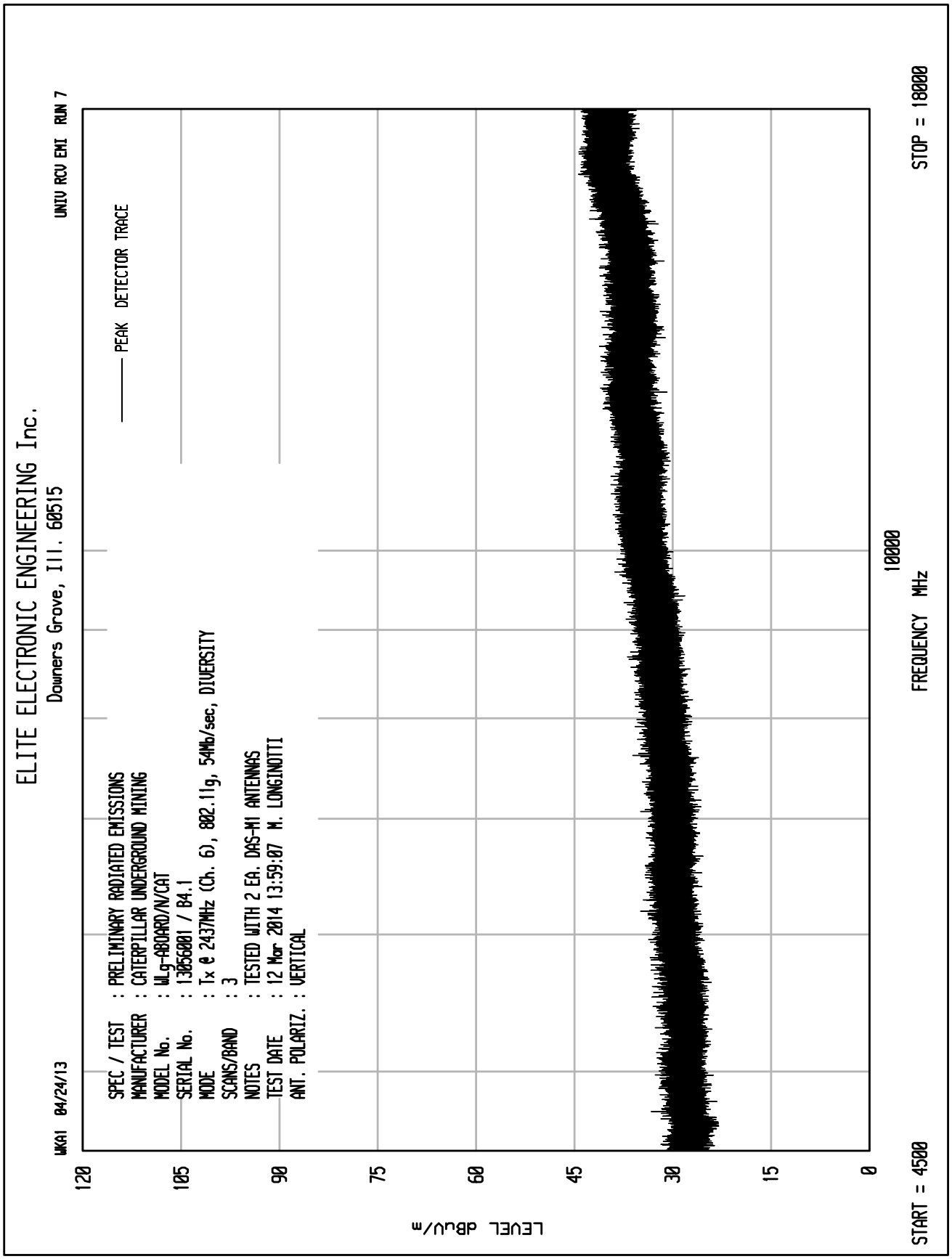

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 26
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : uLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 12:46:45 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

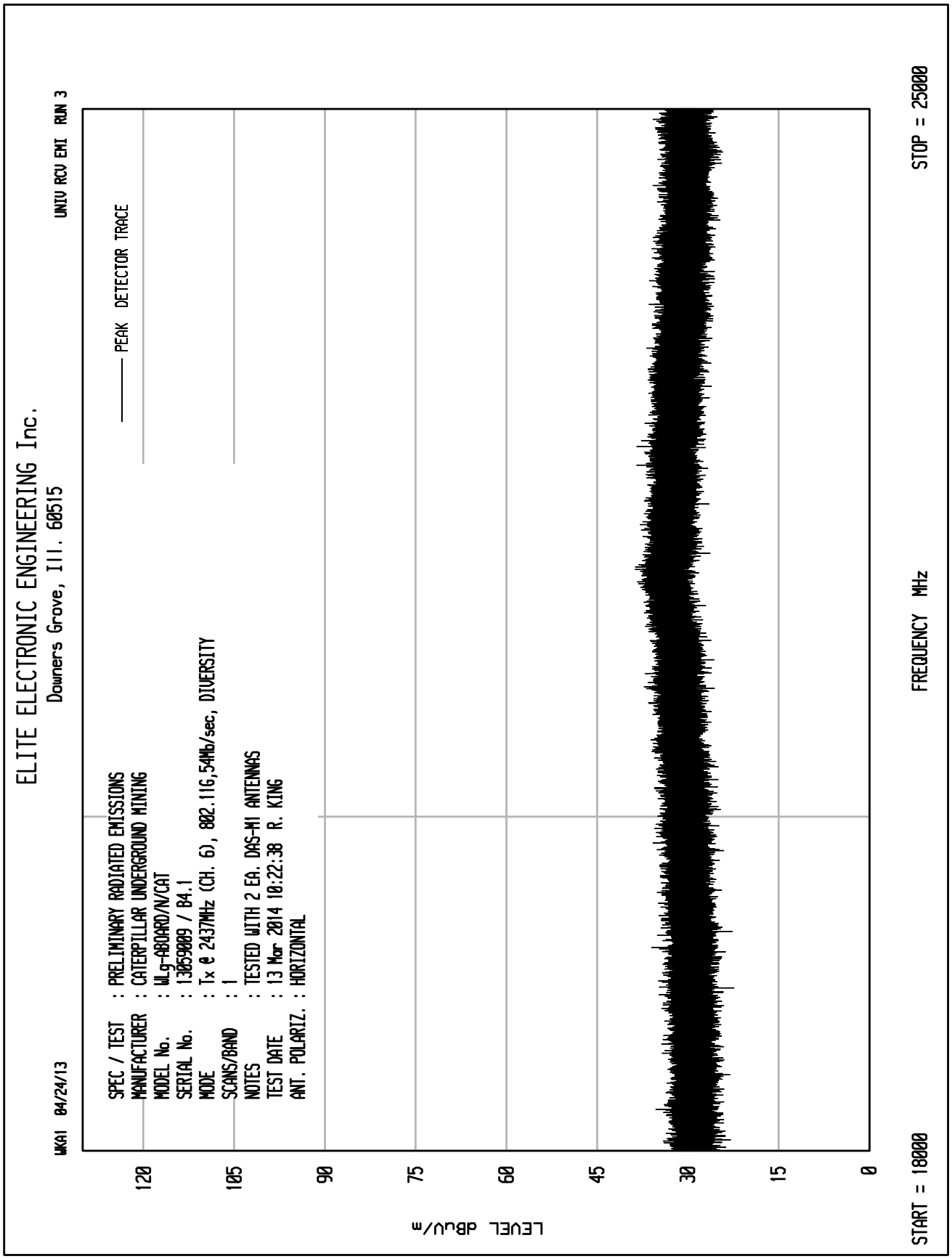

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 27
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 12:47:50 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

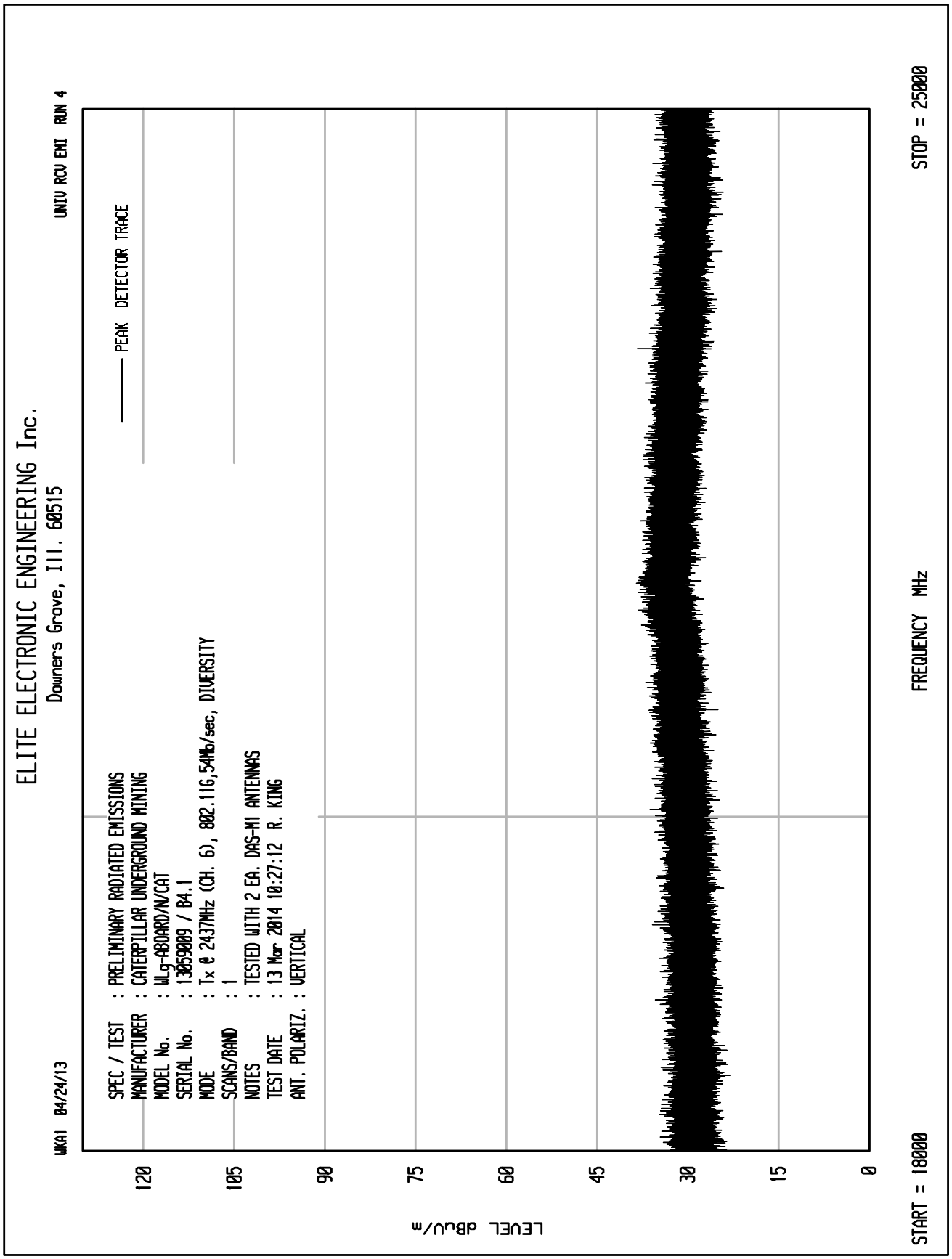

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 9
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 13:18:44 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

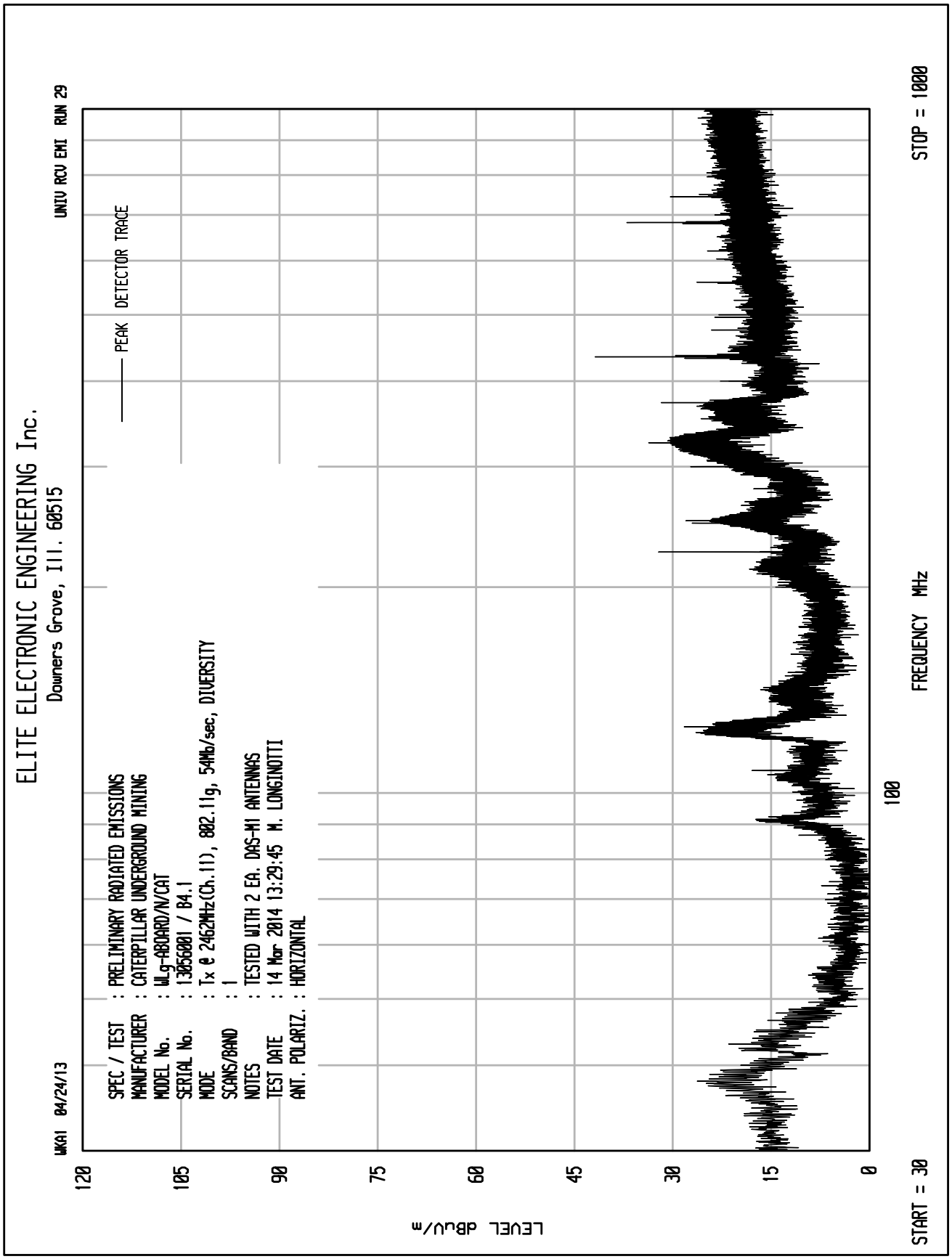

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 10
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 13:26:50 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

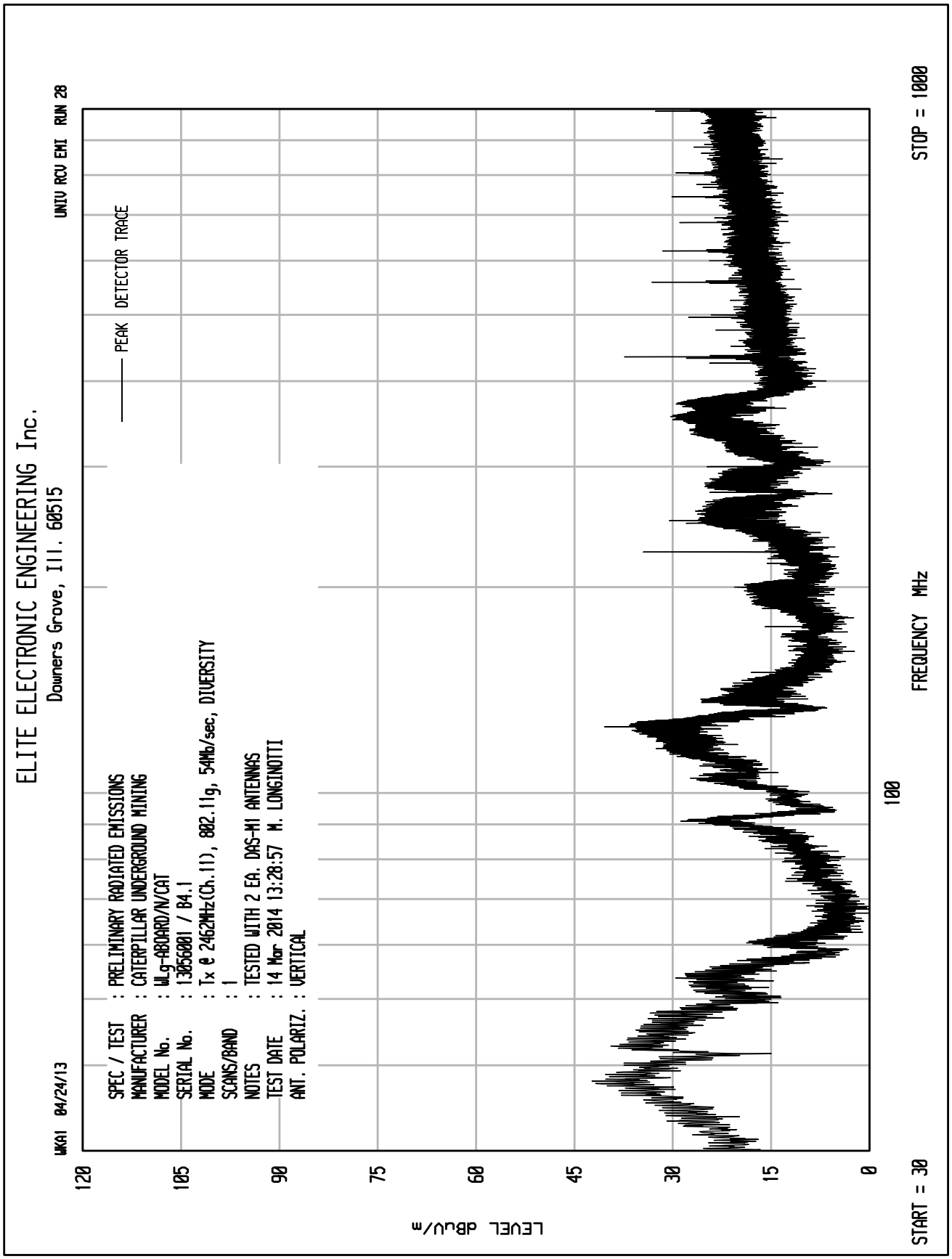

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 6
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 13:52:17 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

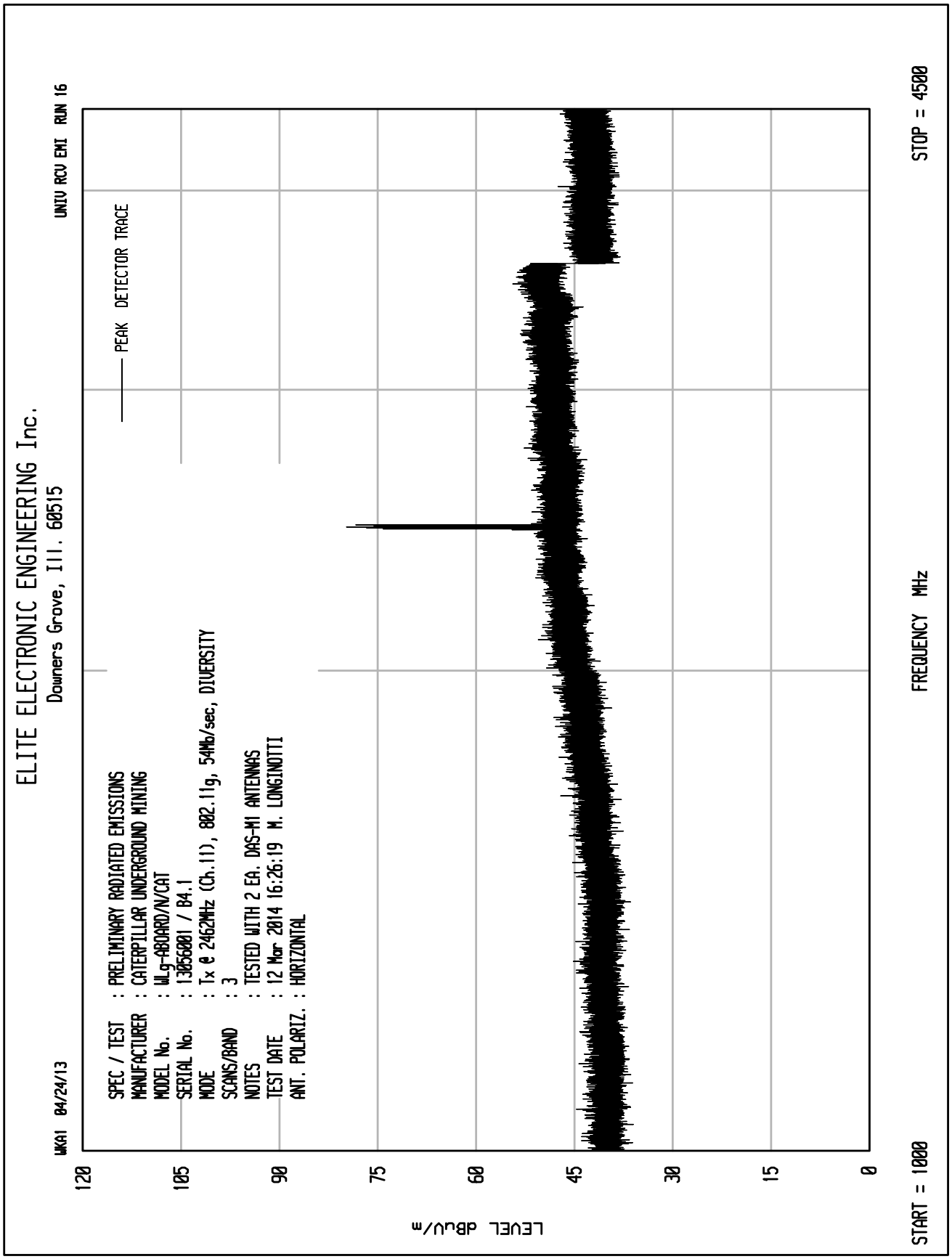

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 7
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 13:59:07 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

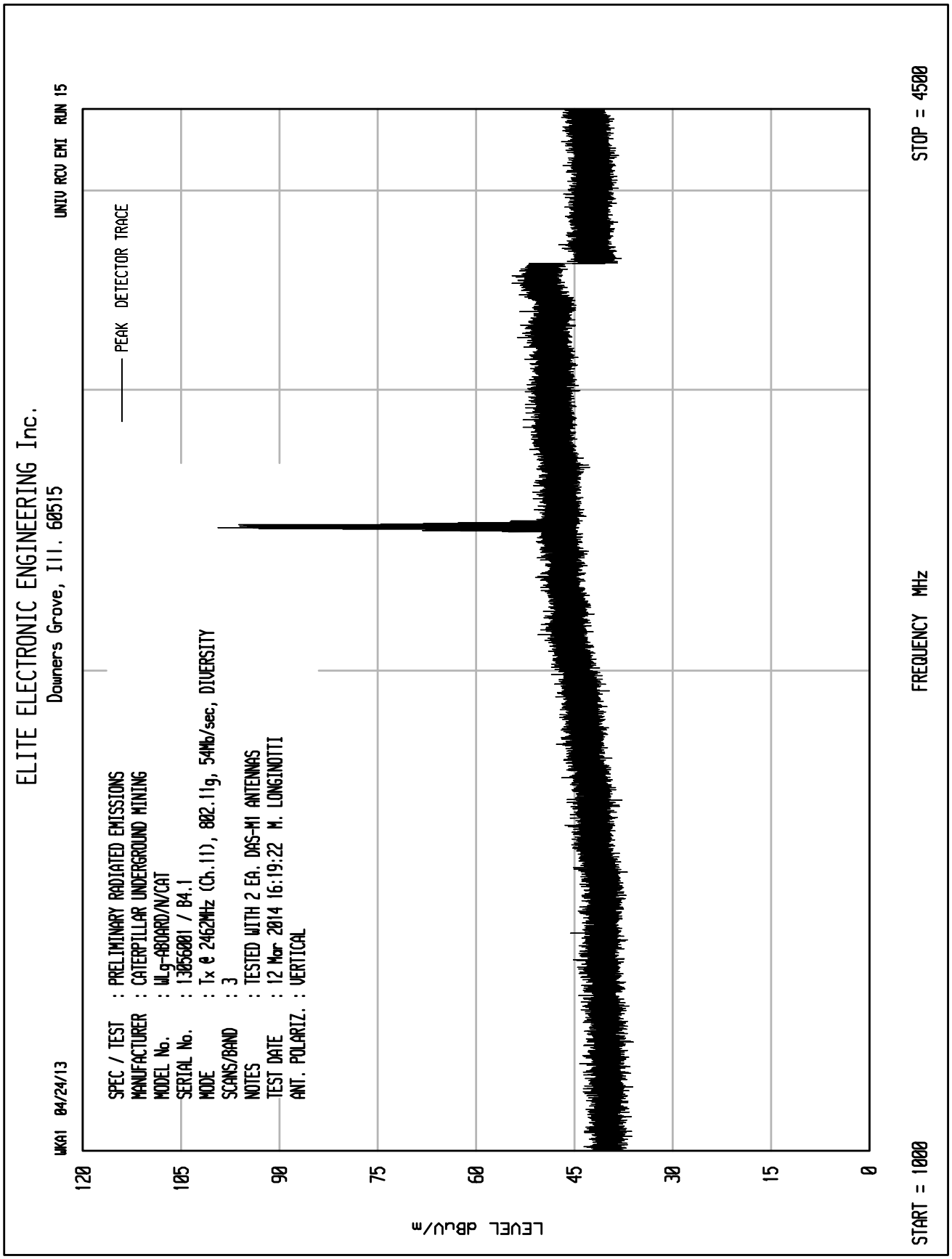

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 3
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH. 6), 802.11G,54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 10:22:38 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

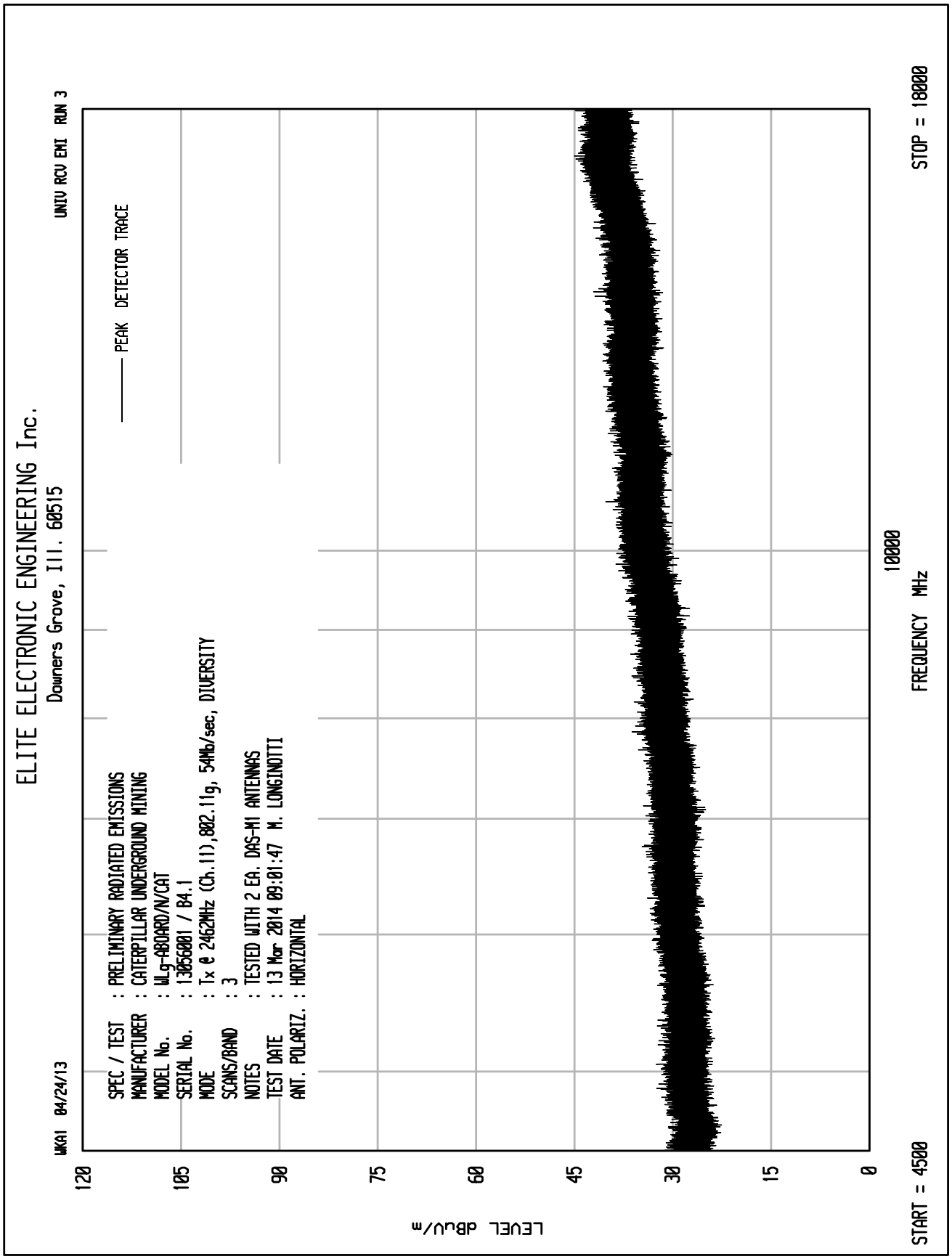

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 4
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH. 6), 802.11G,54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 10:27:12 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

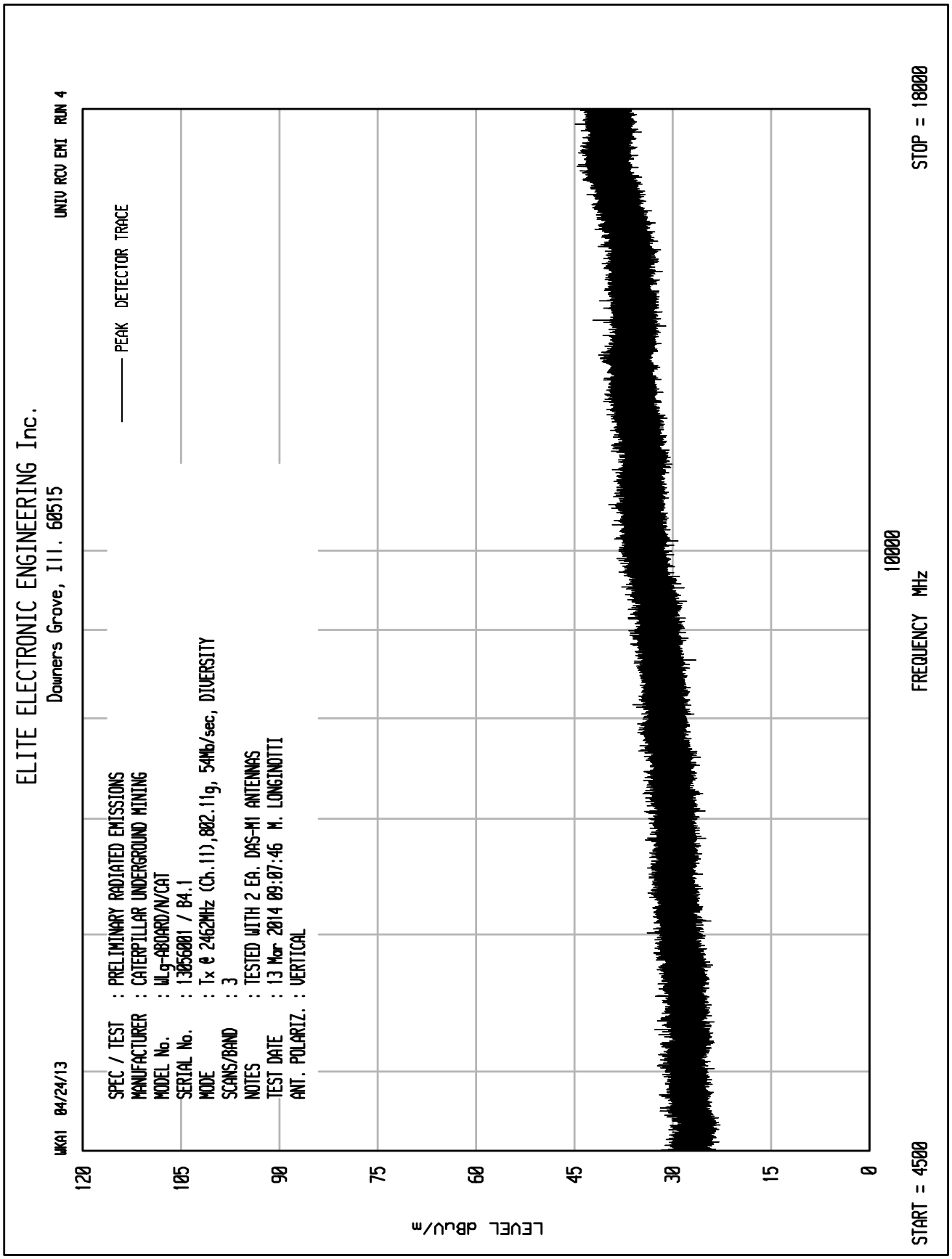

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 29
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 14 Mar 2014 13:29:45 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

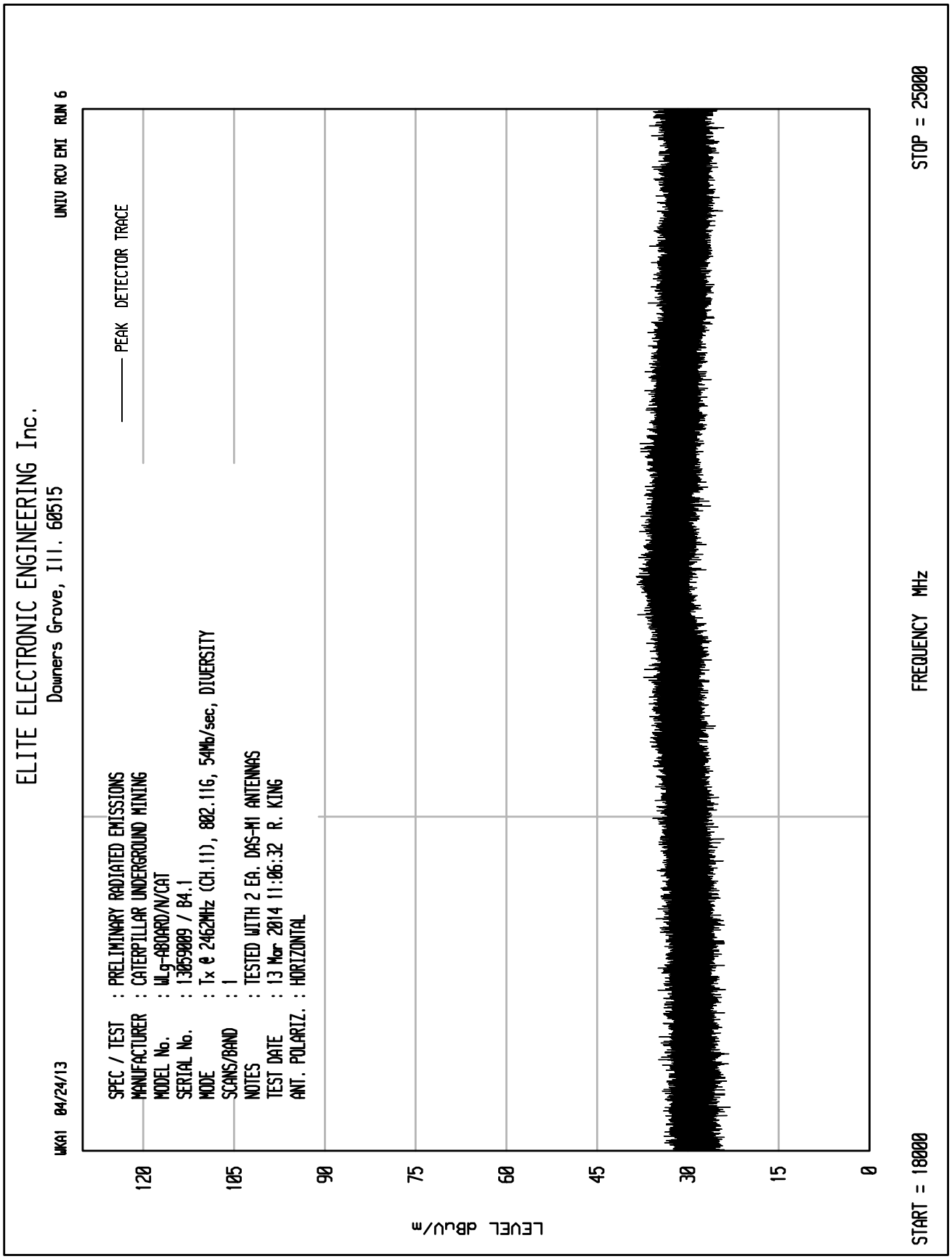

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 28
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : uLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-MI ANTENNAS
TEST DATE : 14 Mar 2014 13:28:57 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

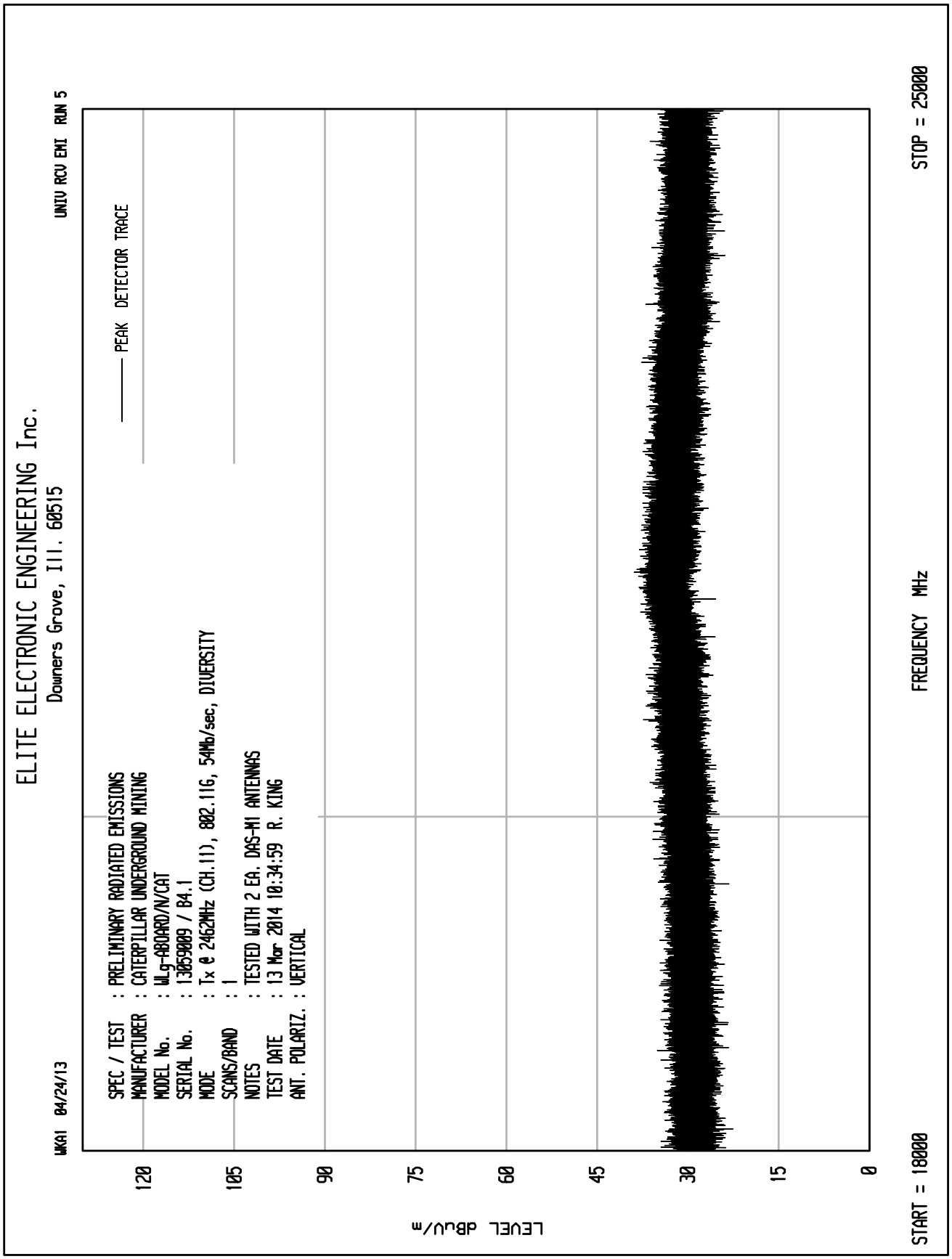

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 16:26:19 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

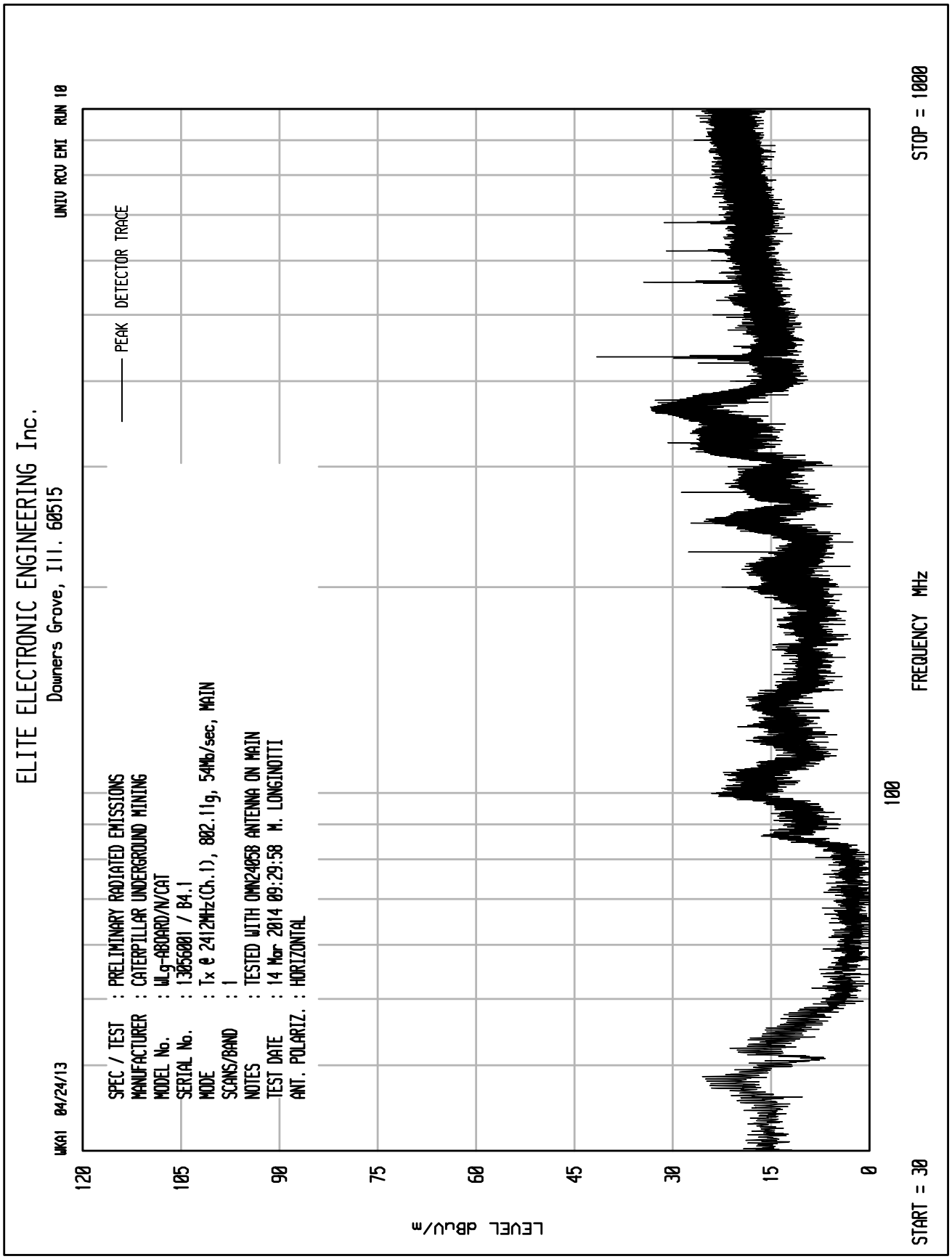

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 15
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11), 802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 12 Mar 2014 16:19:22 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

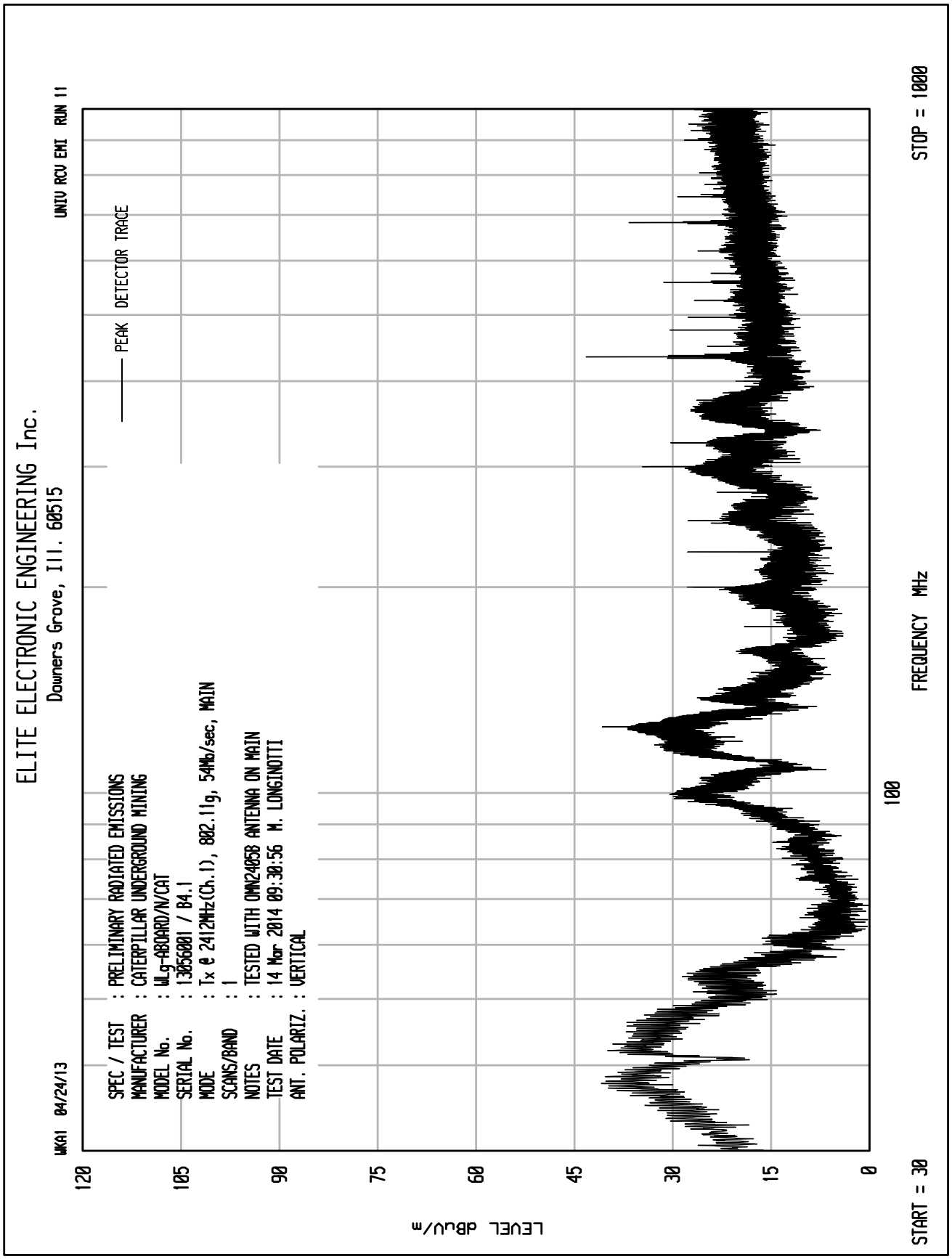

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 3
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11),802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 09:01:47 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

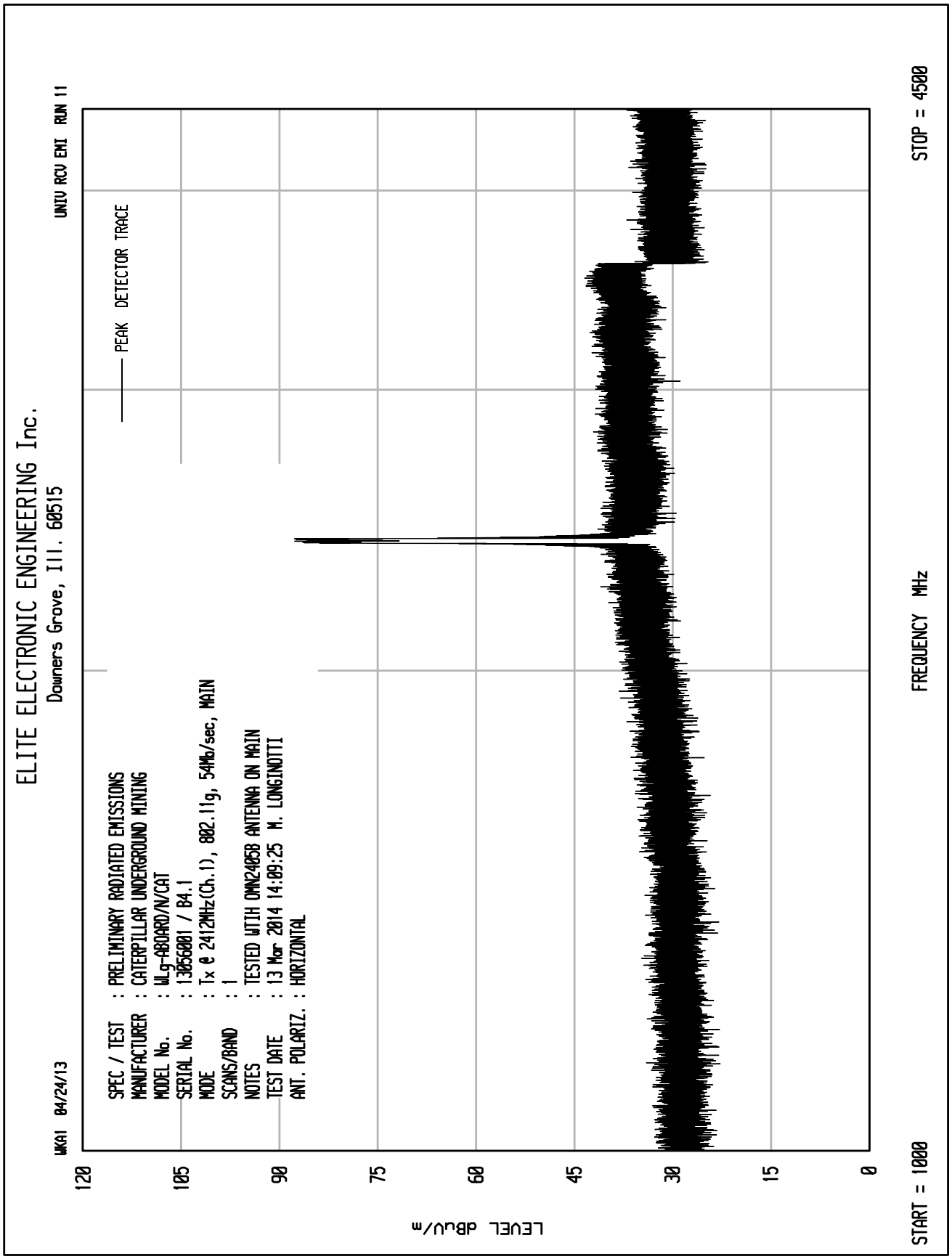

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 4
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch.11),802.11g, 54Mb/sec, DIVERSITY
SCANS/BAND : 3
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 09:07:46 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

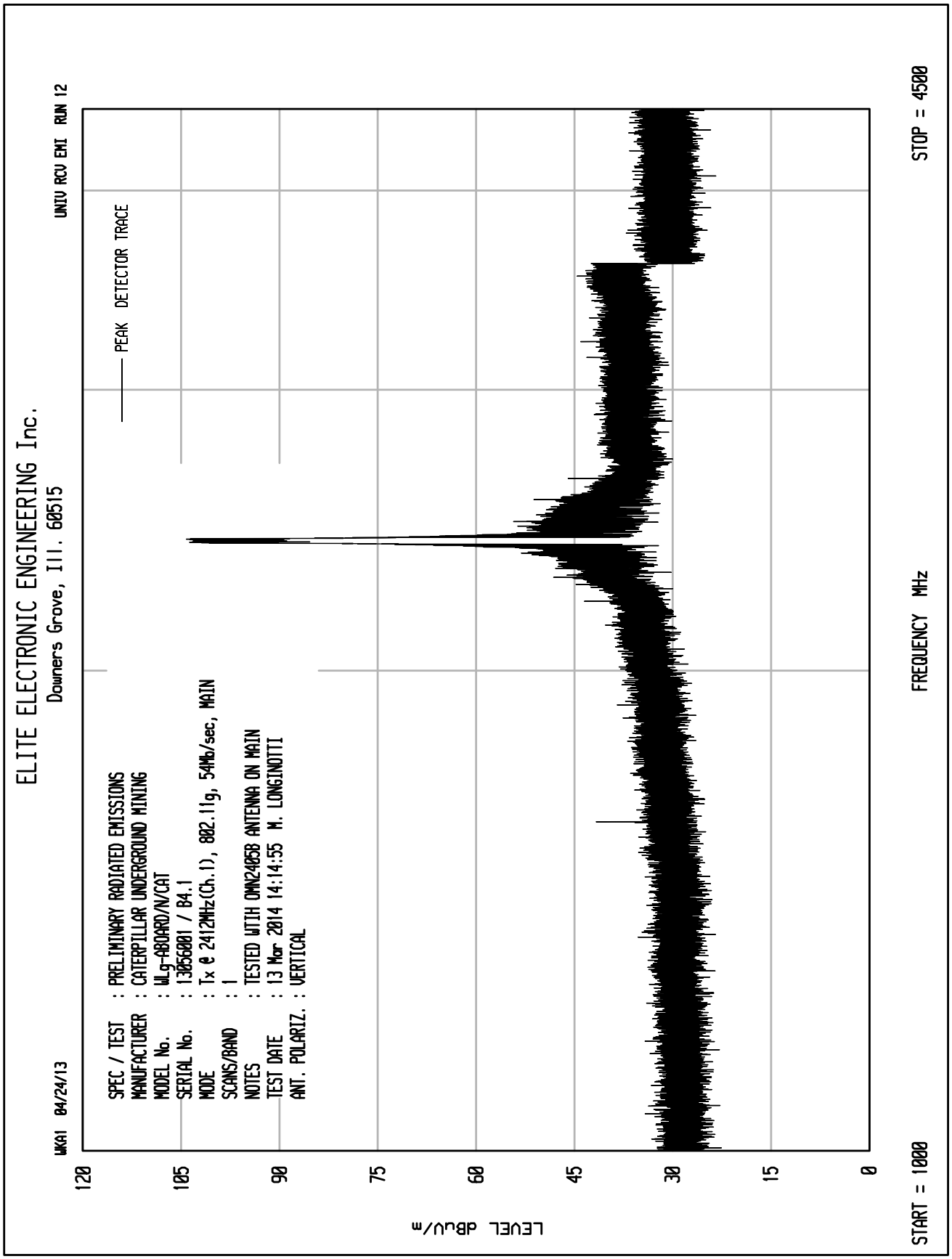

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 6
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11G, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 11:06:32 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

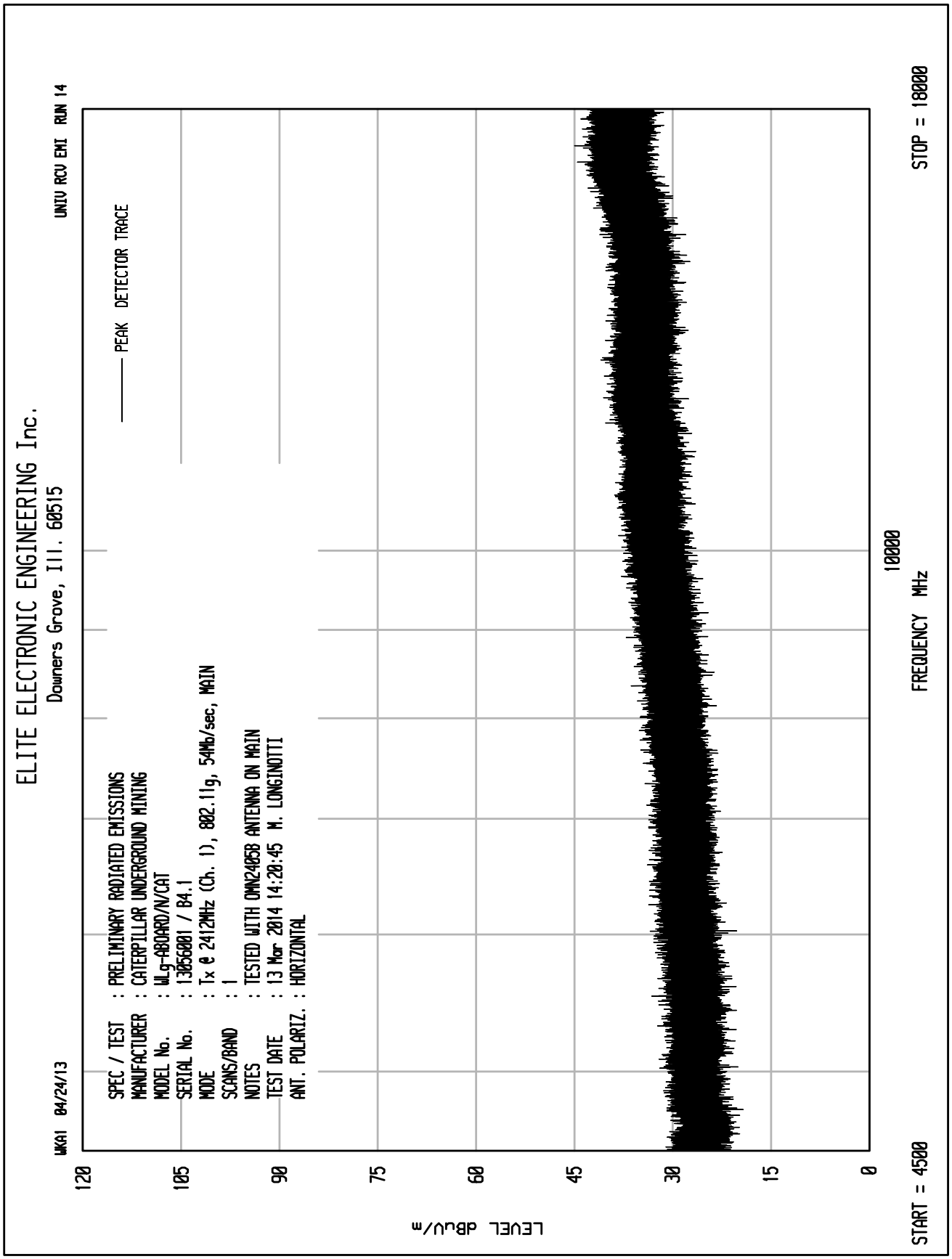

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 5
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11G, 54Mb/sec, DIVERSITY
SCANS/BAND : 1
NOTES : TESTED WITH 2 EA. DAS-M1 ANTENNAS
TEST DATE : 13 Mar 2014 10:34:59 R. KING
ANT. POLARIZ. : VERTICAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

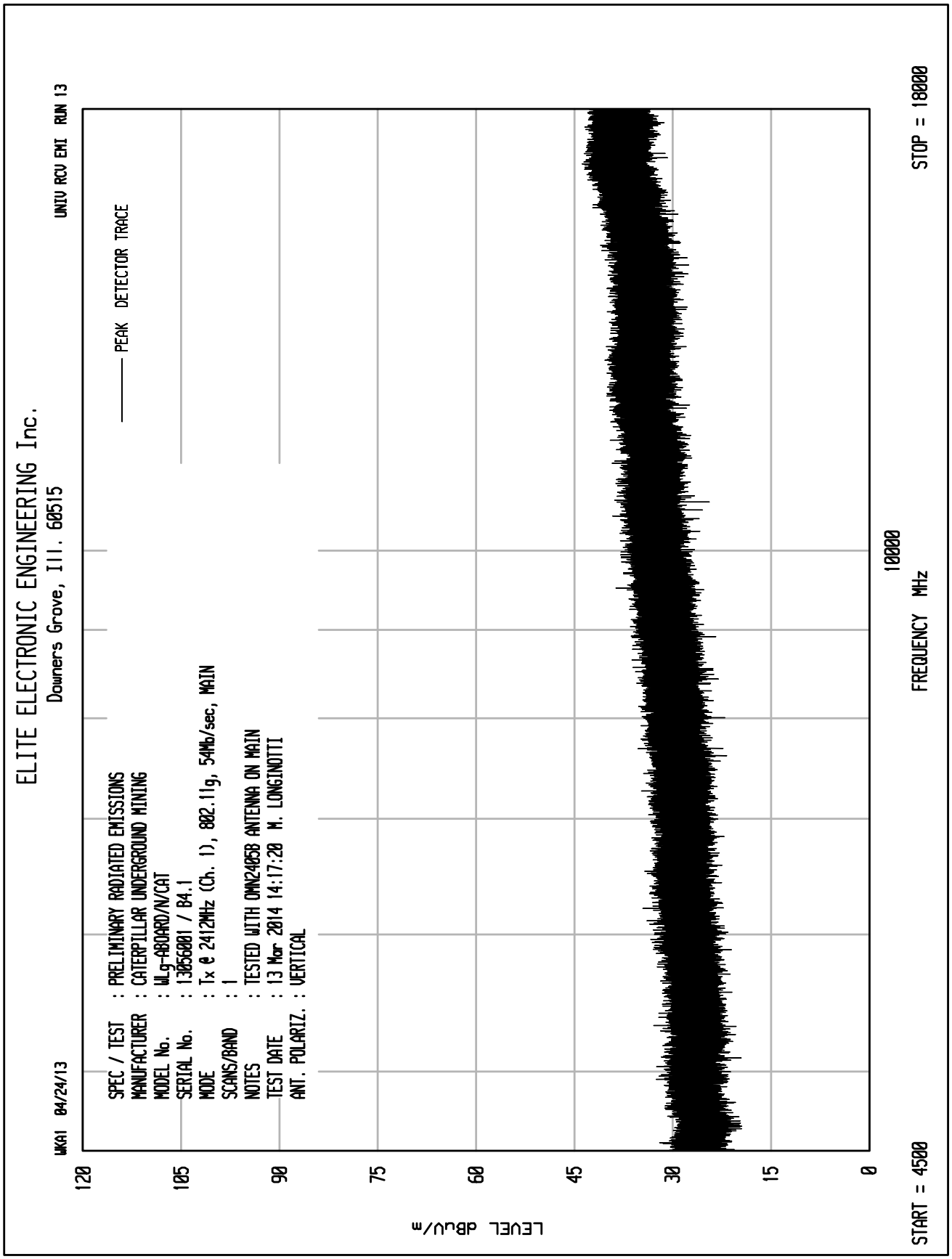

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 10
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:29:58 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

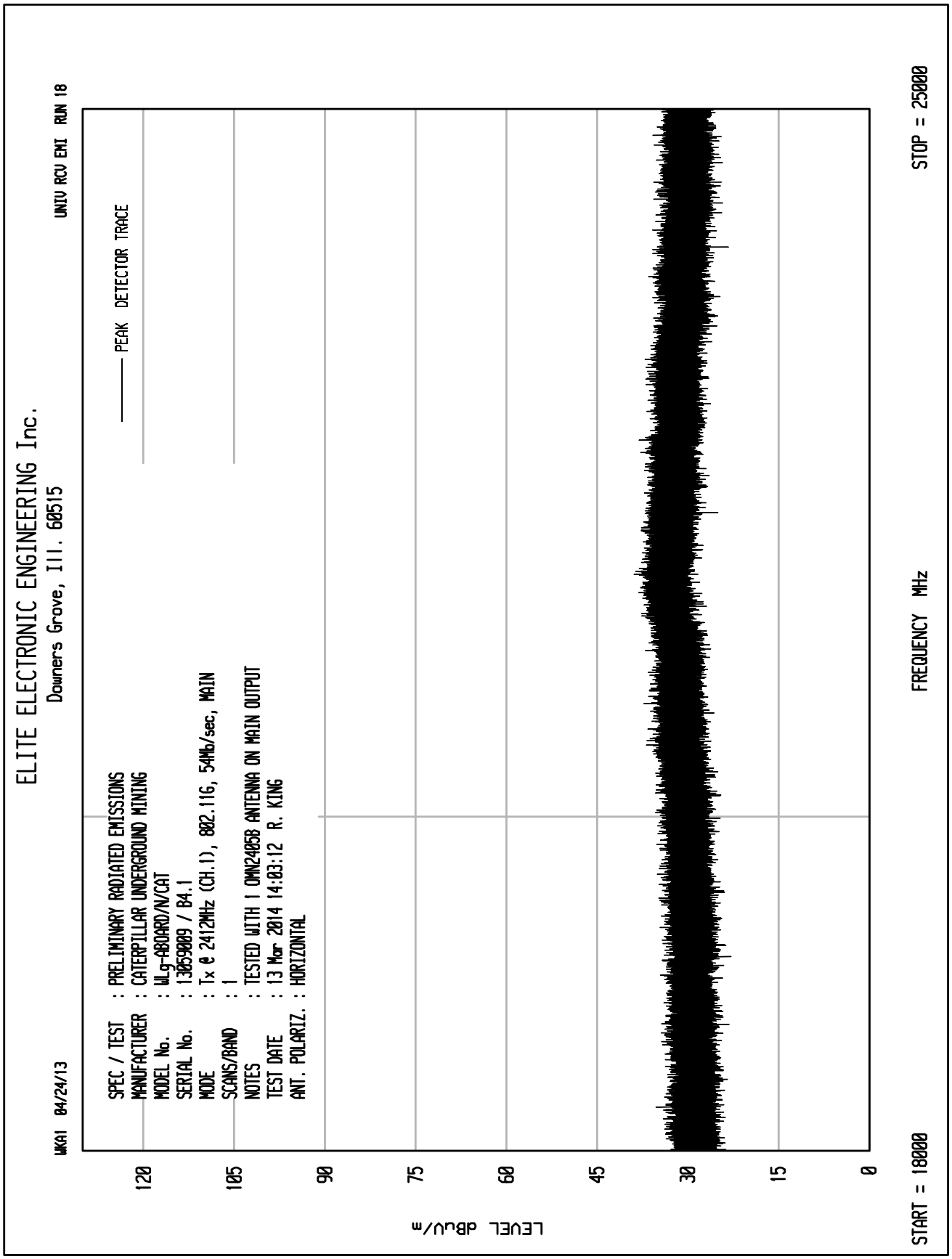

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 11
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:30:56 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

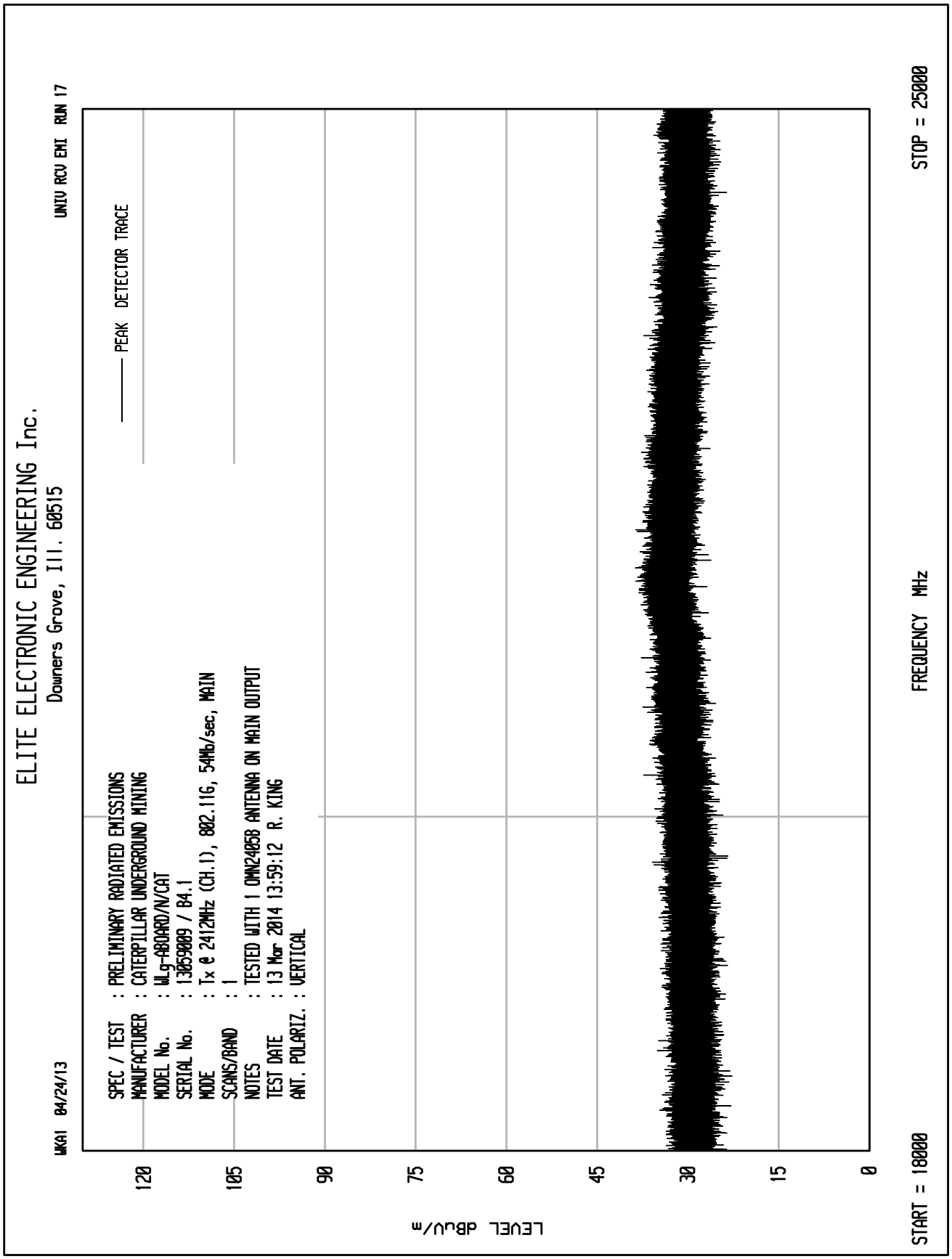

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 11
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:09:25 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

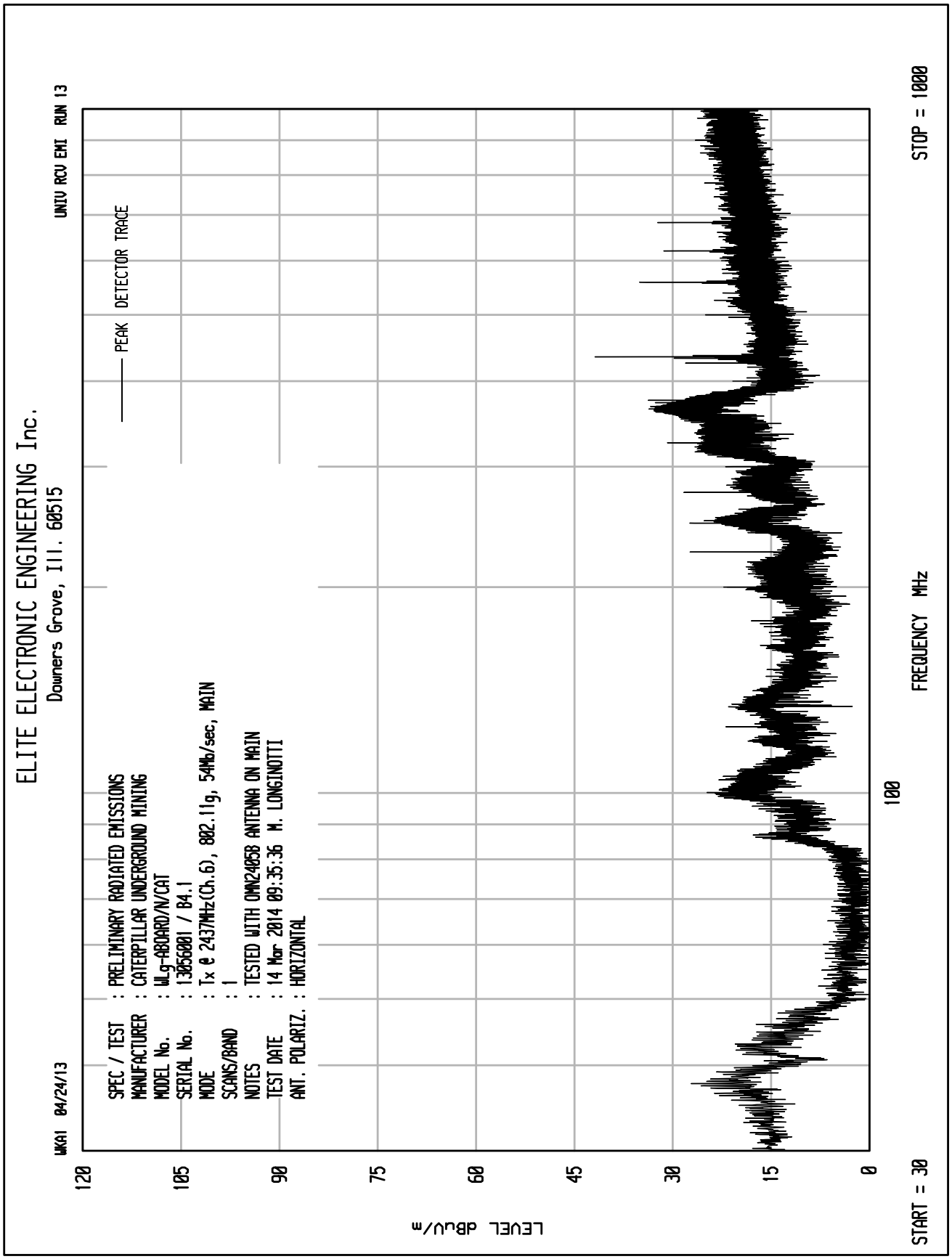

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 12
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz(Ch.1), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:14:55 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

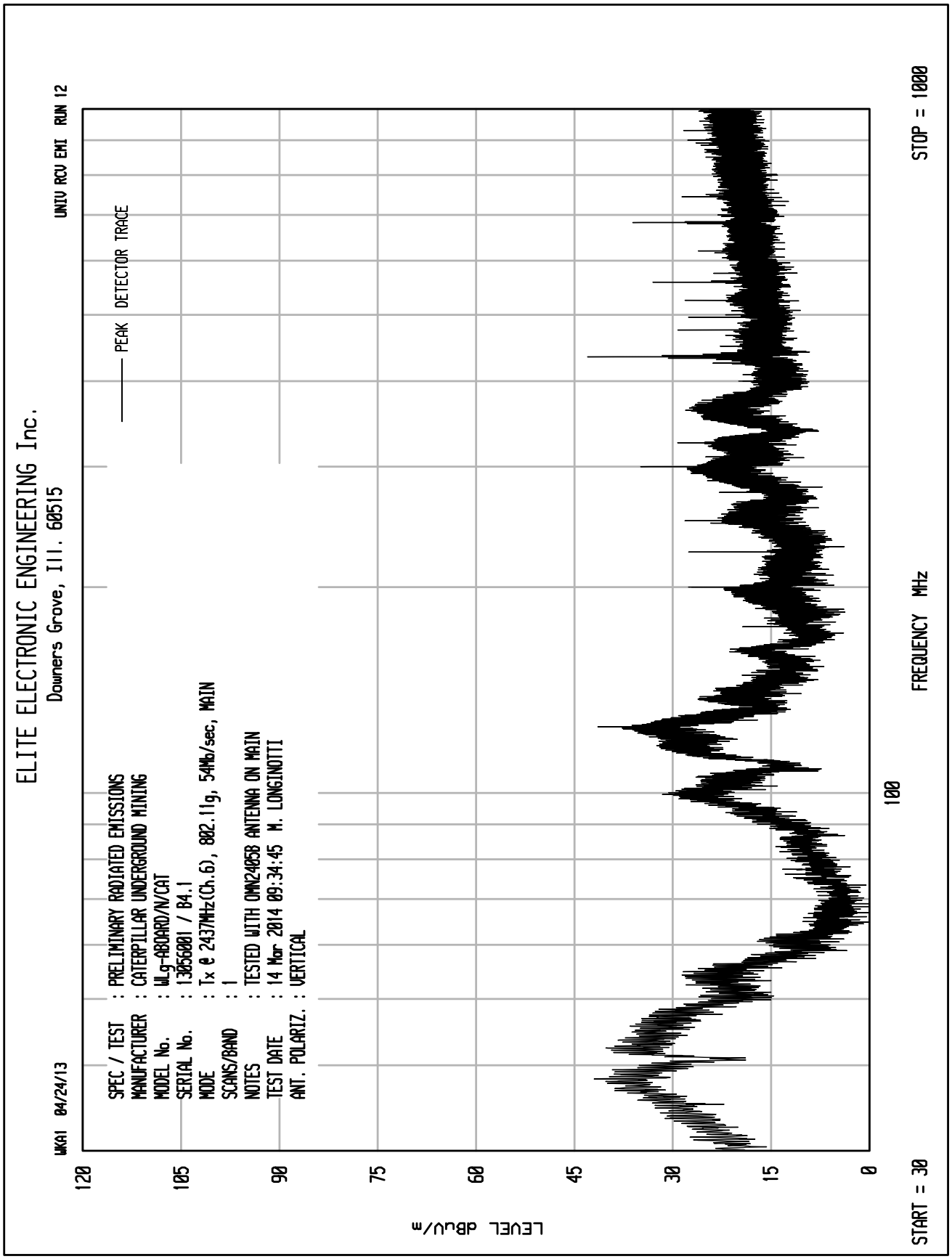

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 14
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:20:45 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

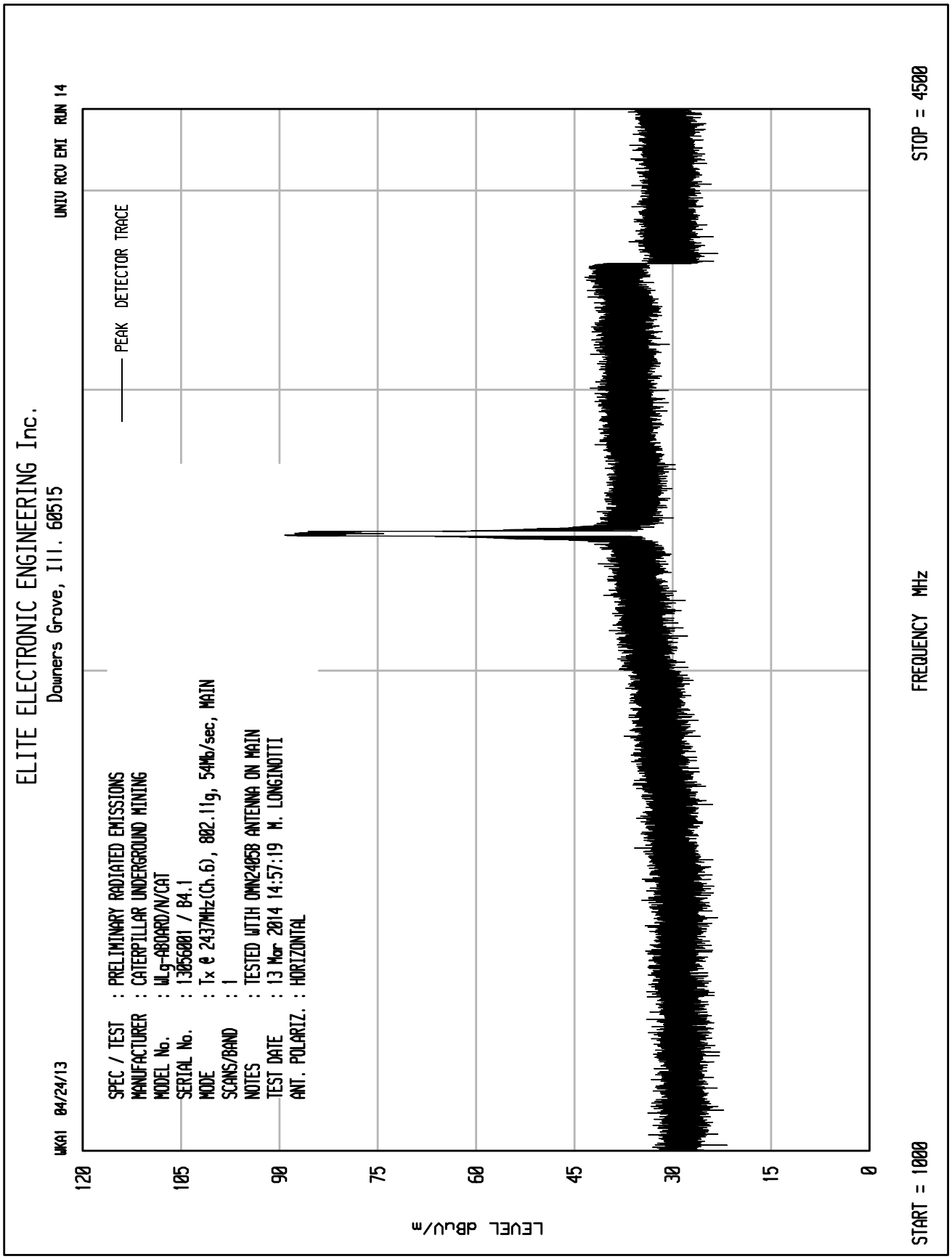

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 13
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:17:20 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

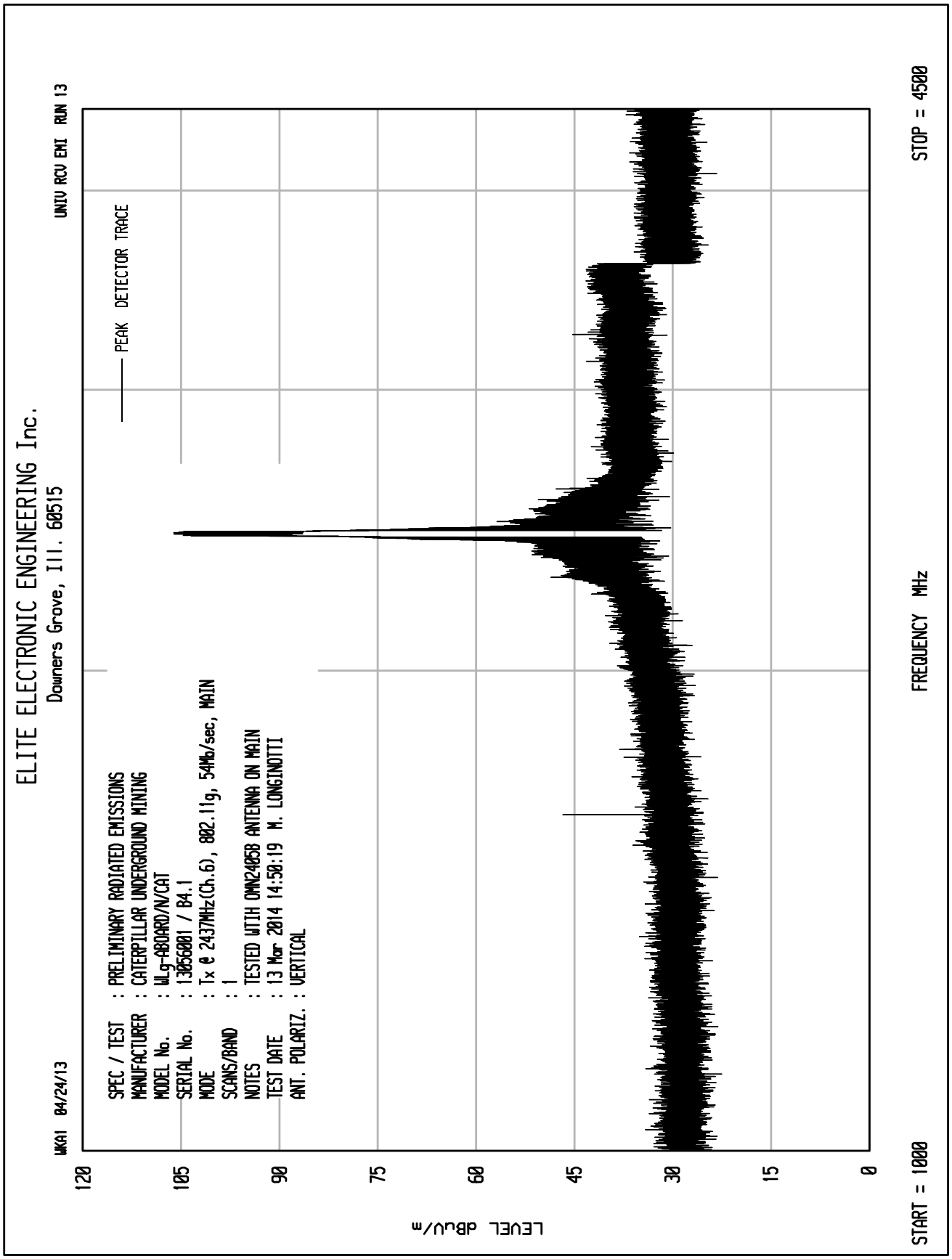

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 18
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (CH.1), 802.11G, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:03:12 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

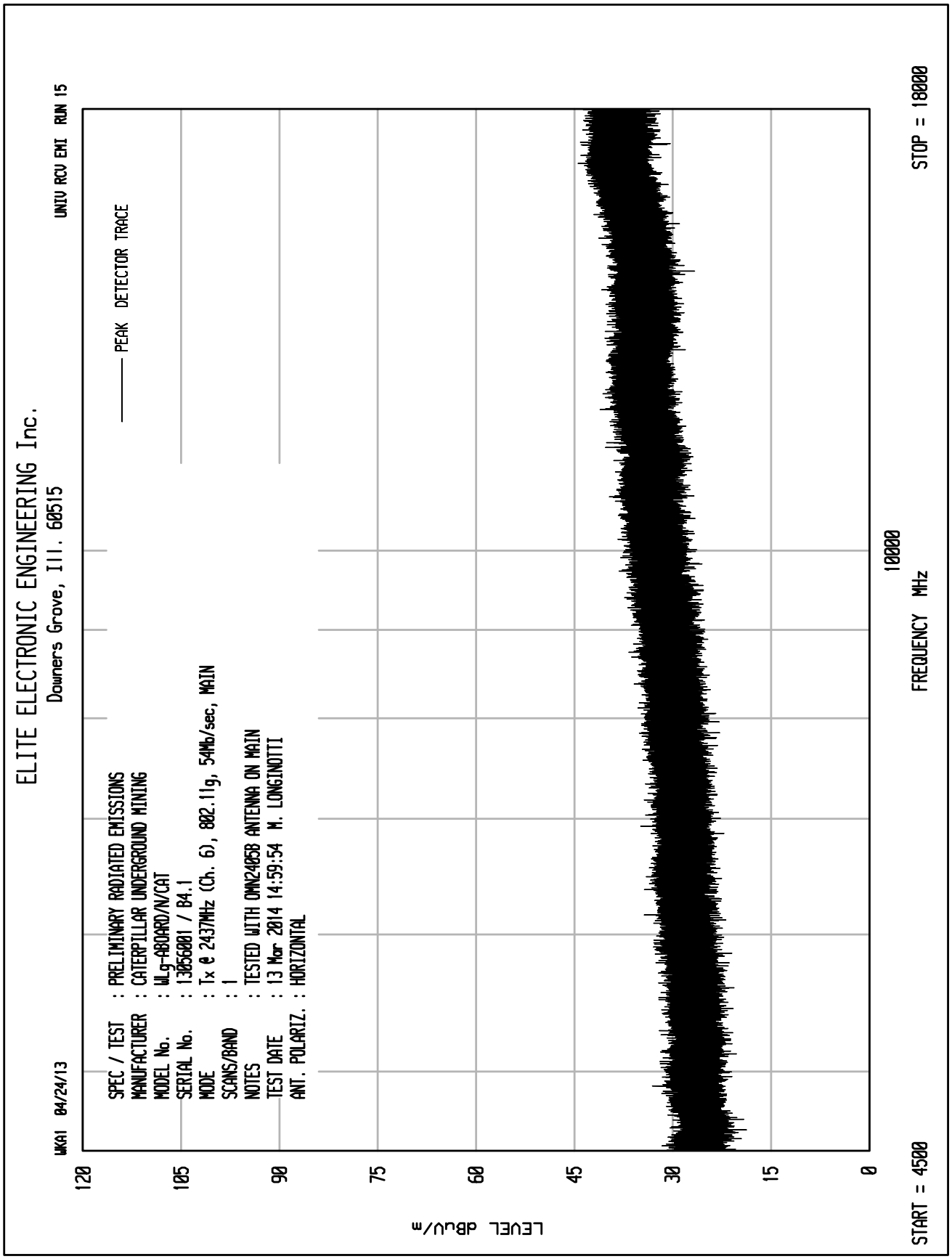

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 17
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2412MHz (CH.1), 802.11G, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMNI2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 13:59:12 R. KING
ANT. POLARIZ. : VERTICAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

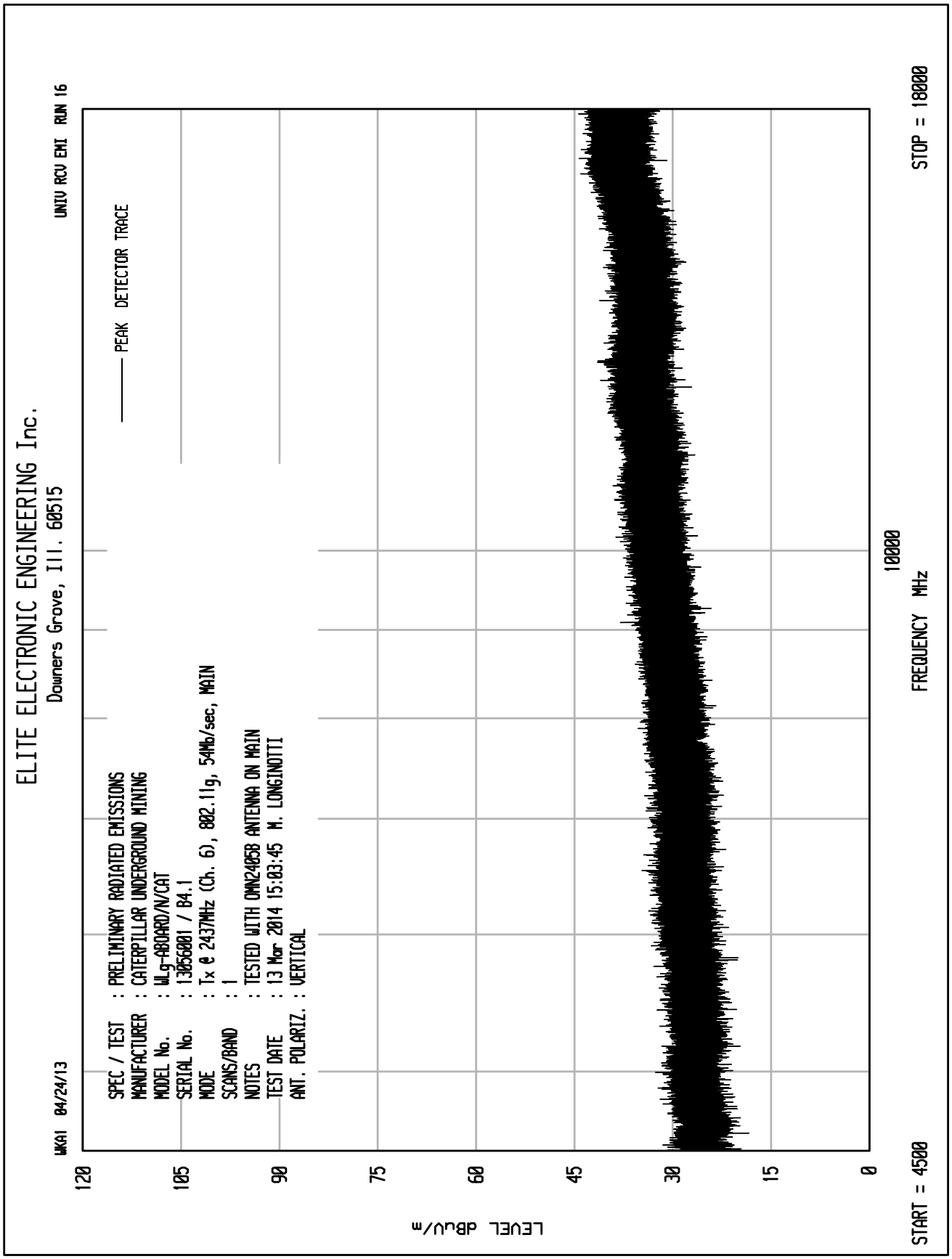

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 13
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:35:36 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

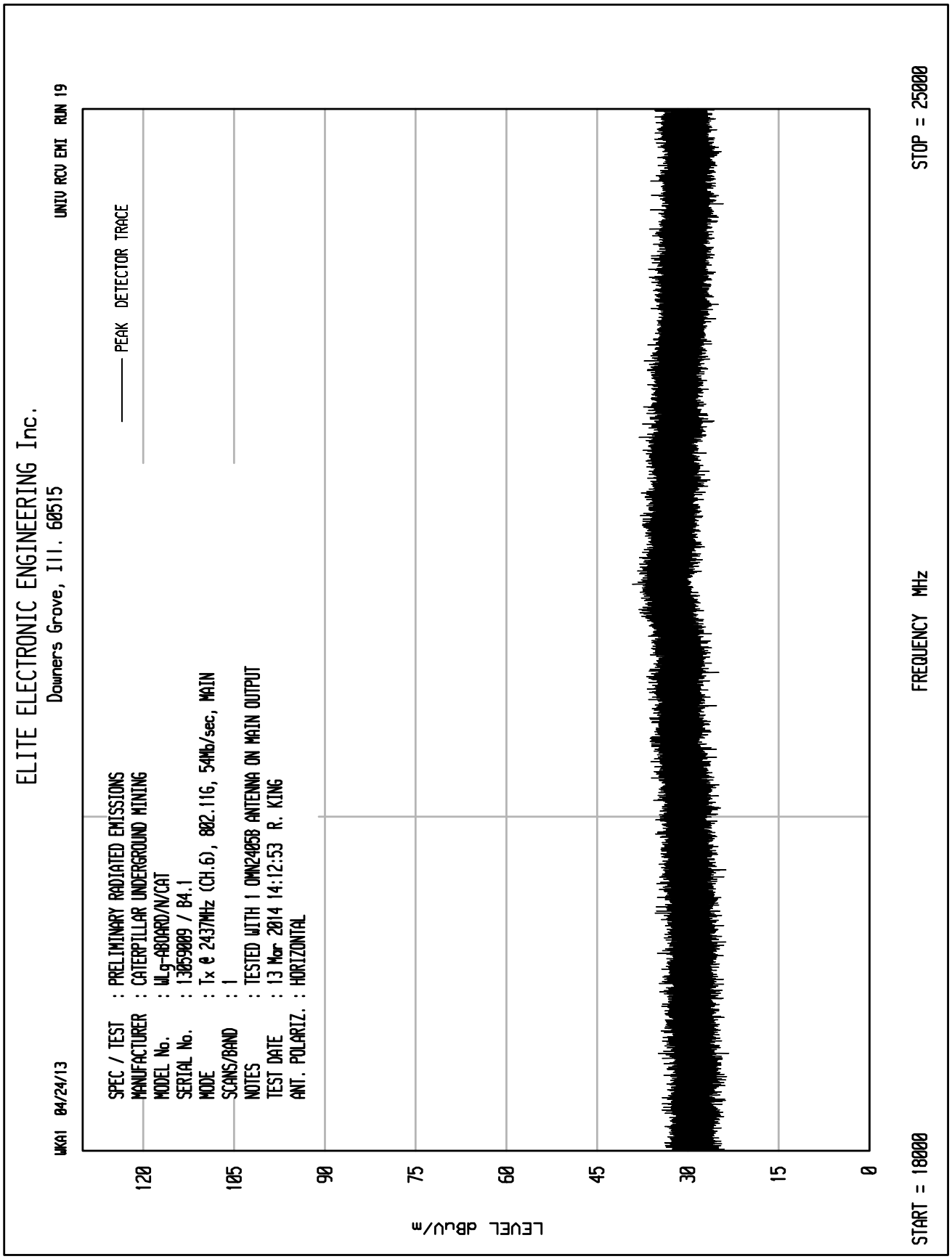

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 12
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 09:34:45 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

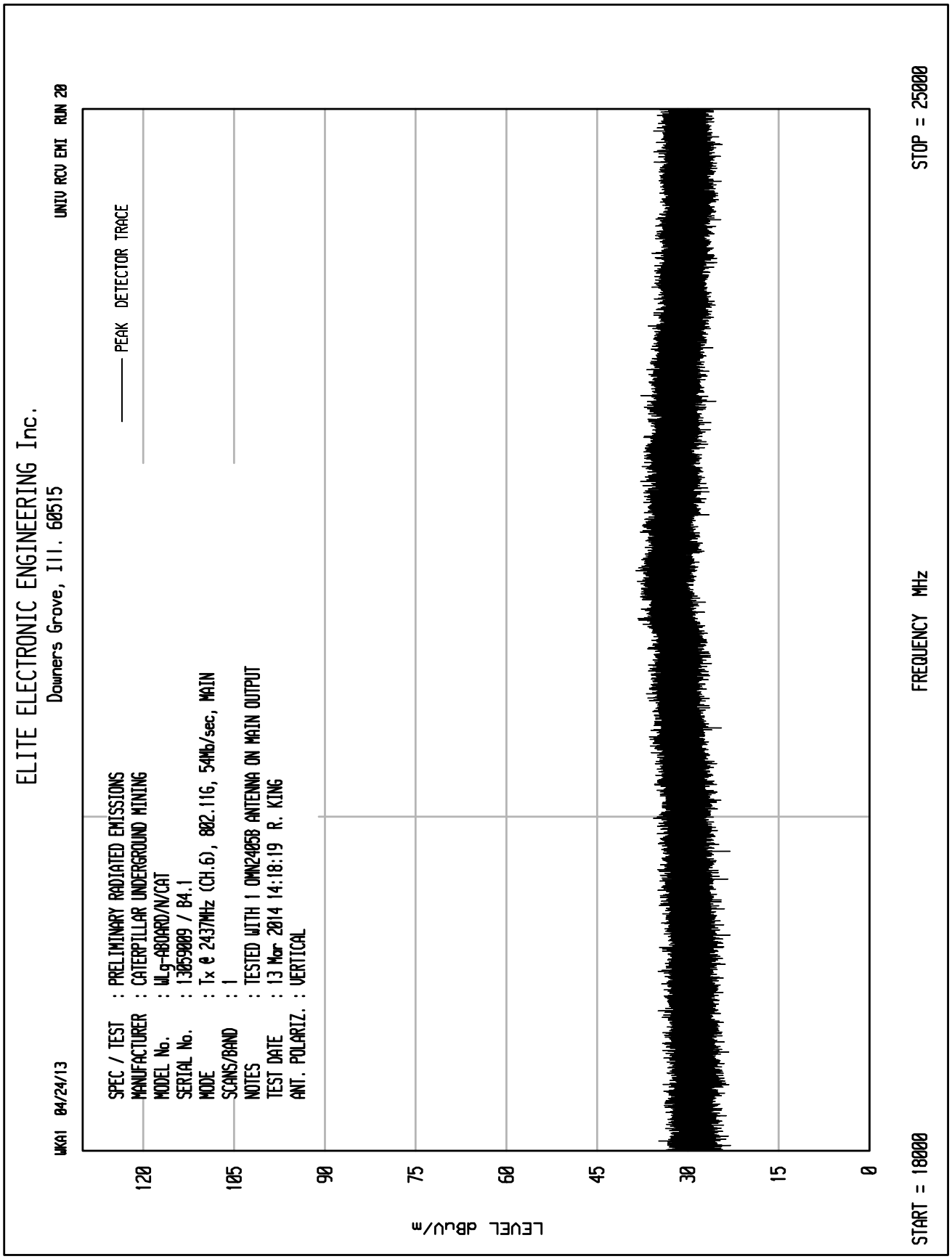

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 14
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:57:19 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

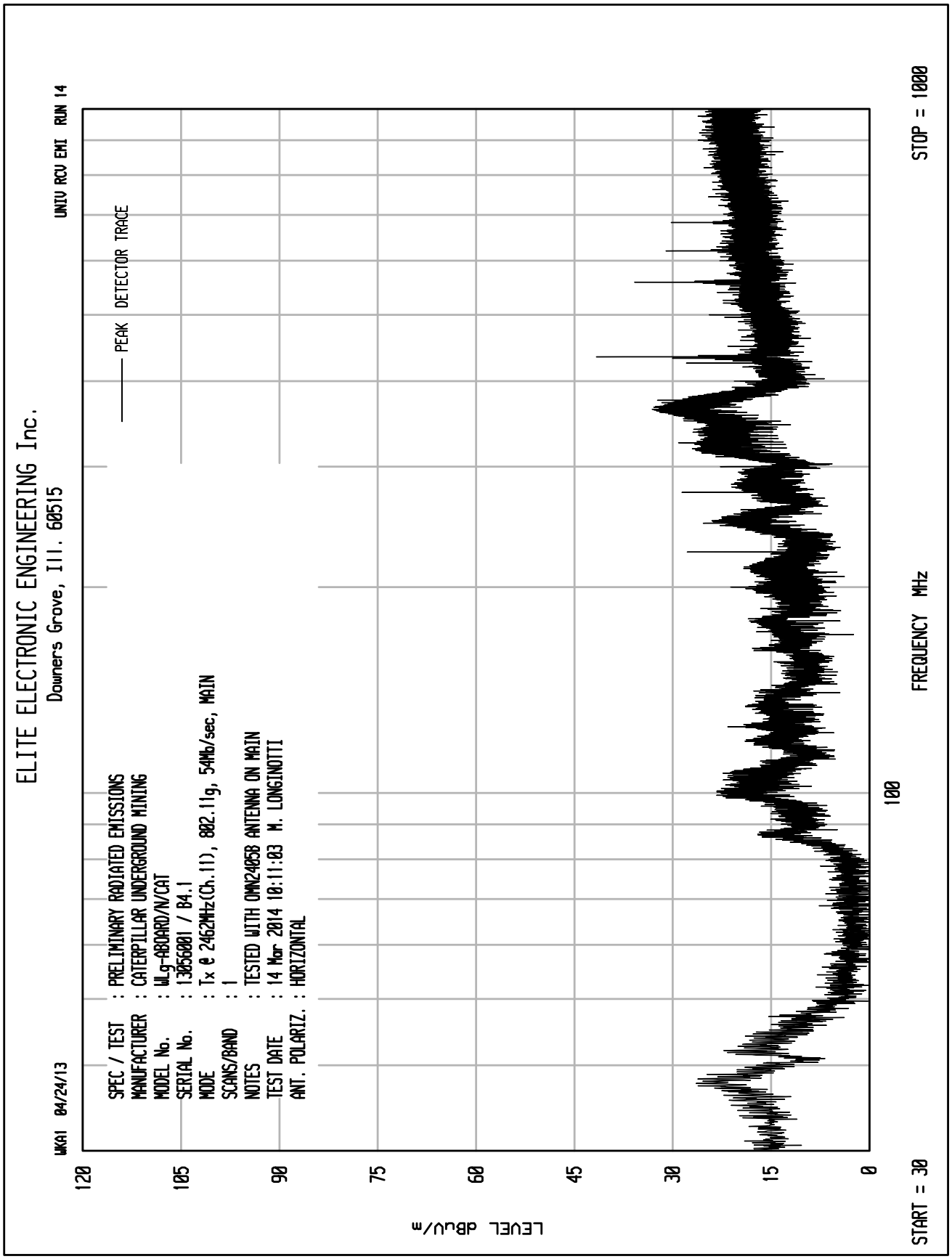

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 13
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz(Ch.6), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:50:19 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500

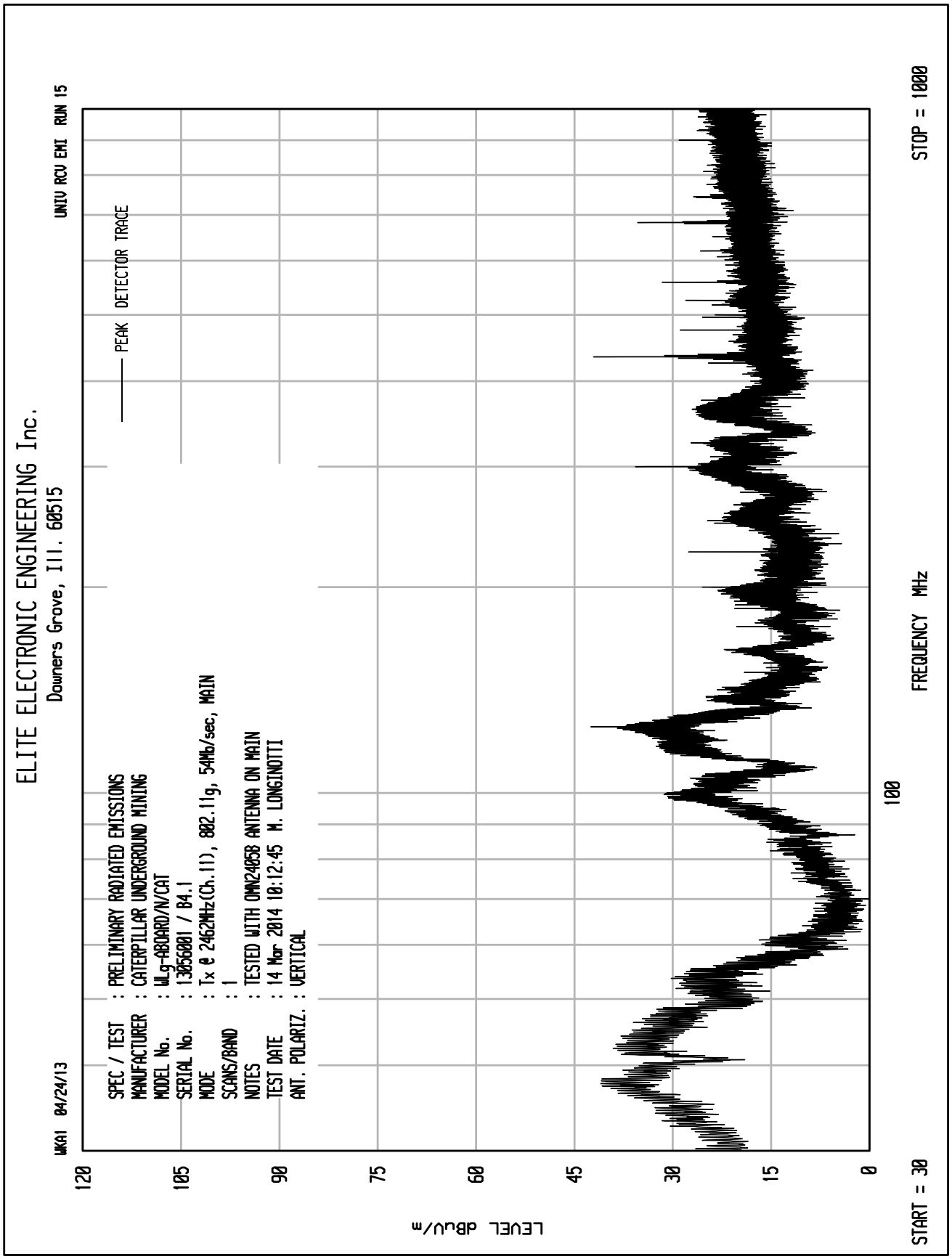

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 15
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 14:59:54 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

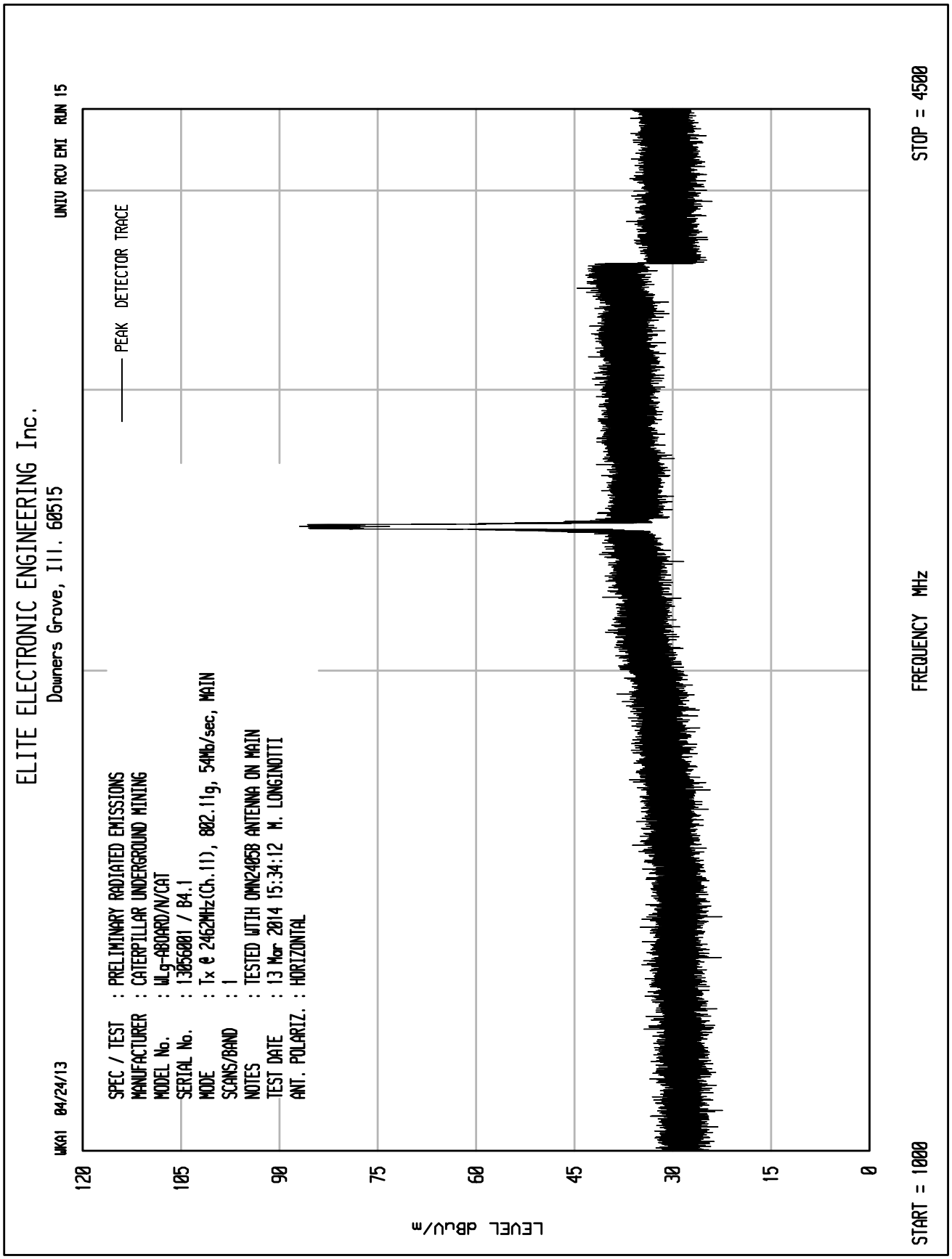

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2437MHz (Ch. 6), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 15:03:45 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000

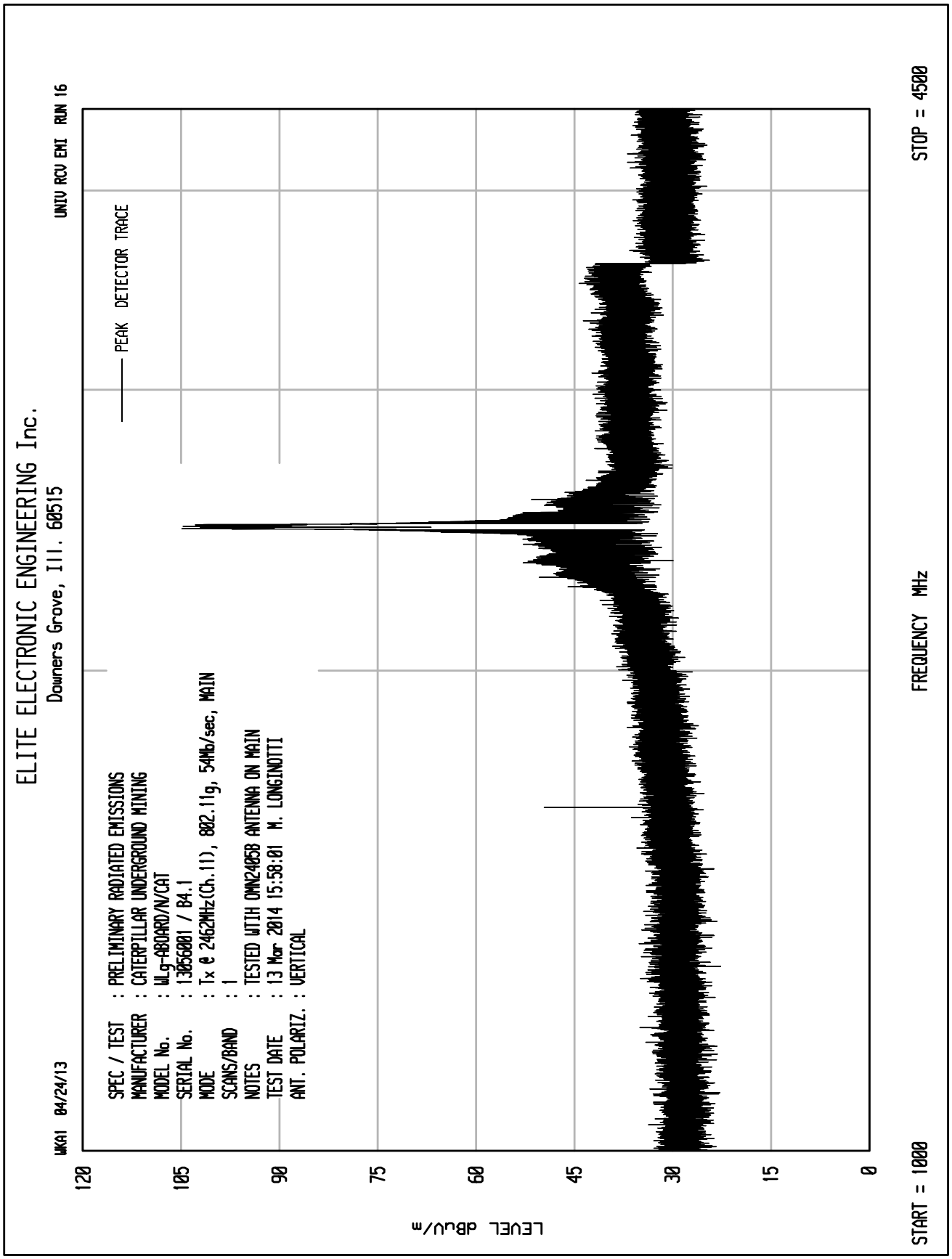

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 19
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH.6), 802.11G, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:12:53 R. KING
ANT. POLARIZ. : HORIZONTAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

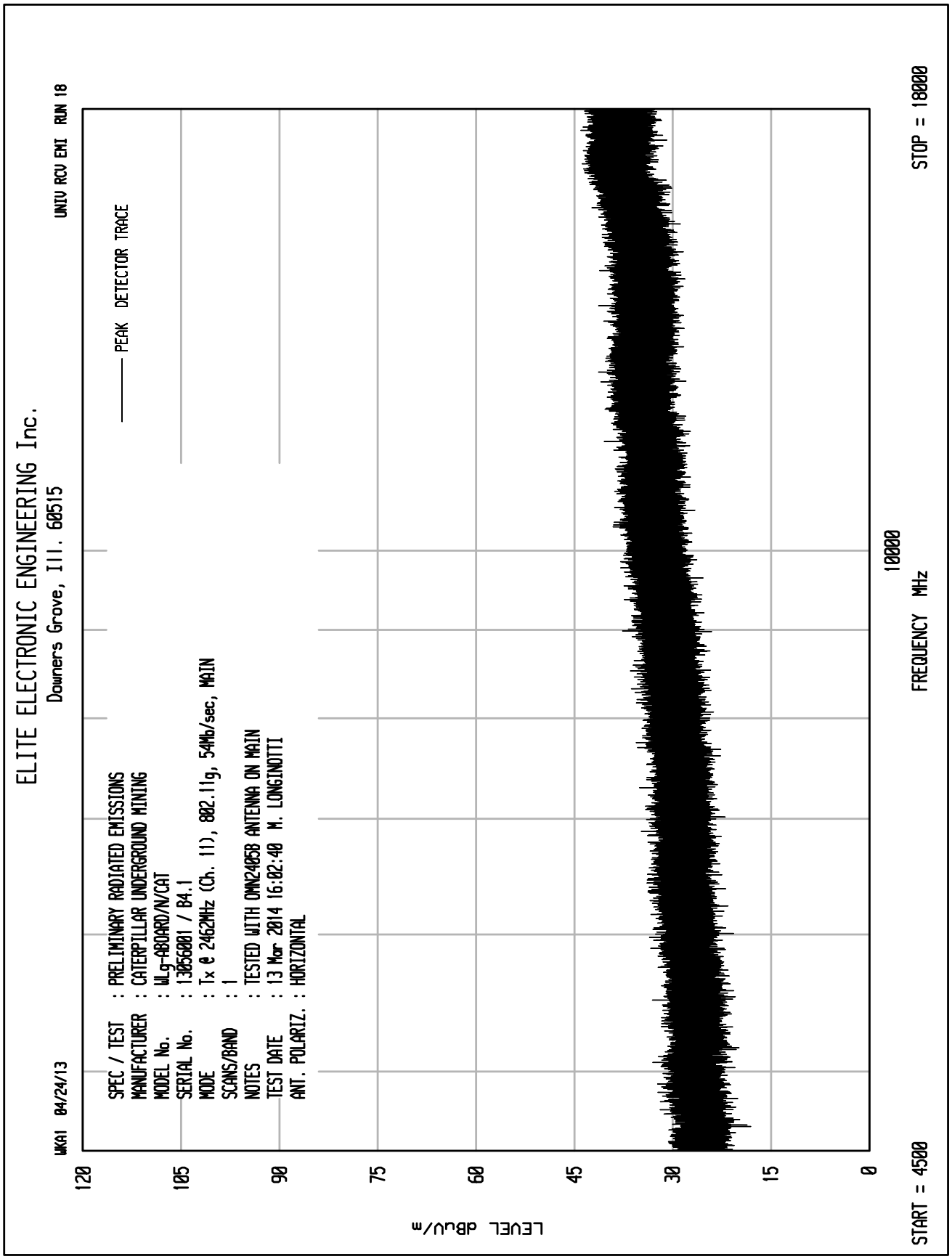

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 20
WKAI 04/24/13
PEAK DETECTOR TRACE
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2437MHz (CH.6), 802.11G, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMNI2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:18:19 R. KING
ANT. POLARIZ. : VERTICAL
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

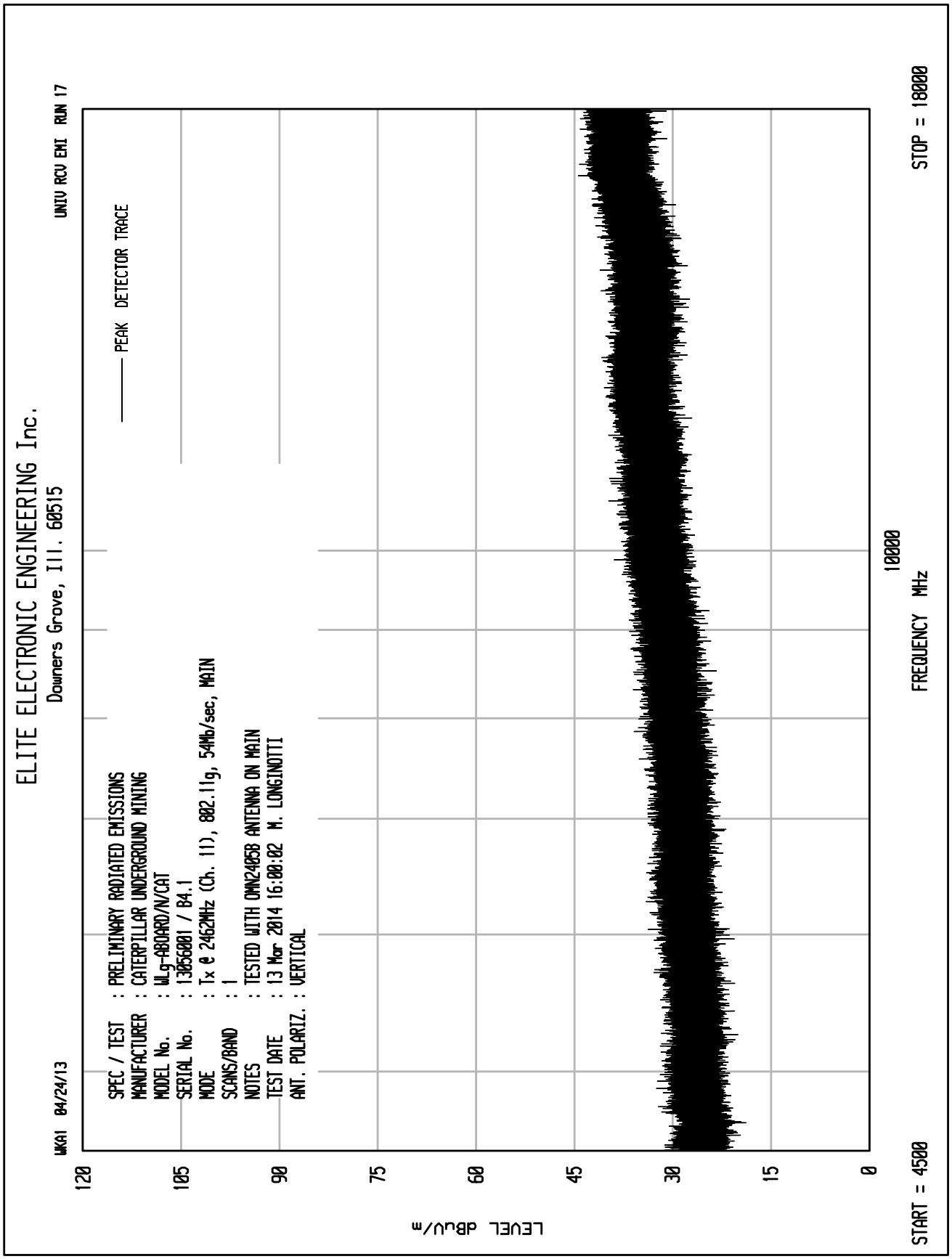

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 14
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 10:11:03 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

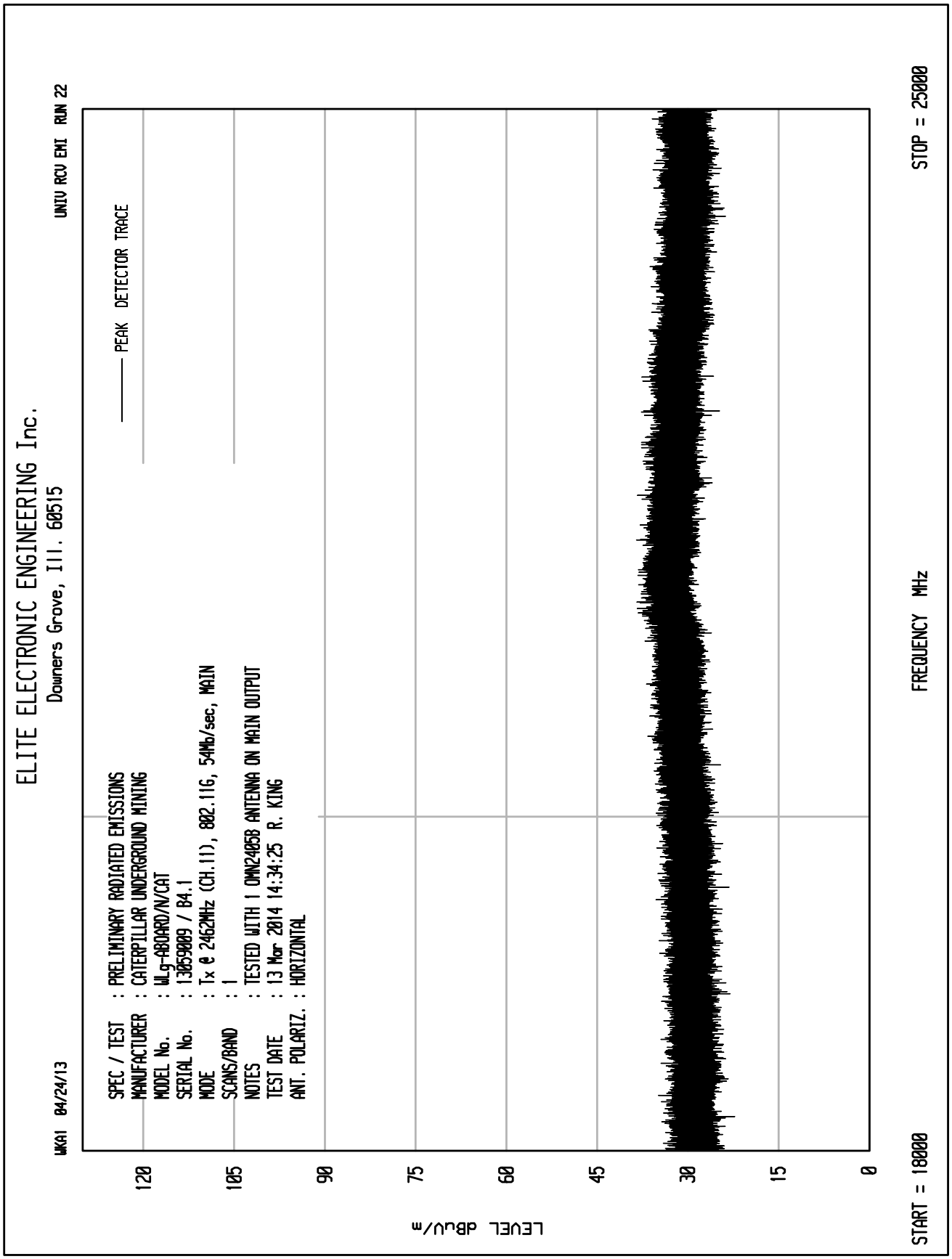

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 15
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : ULg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 14 Mar 2014 10:12:45 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 30
100
FREQUENCY MHz
STOP = 1000

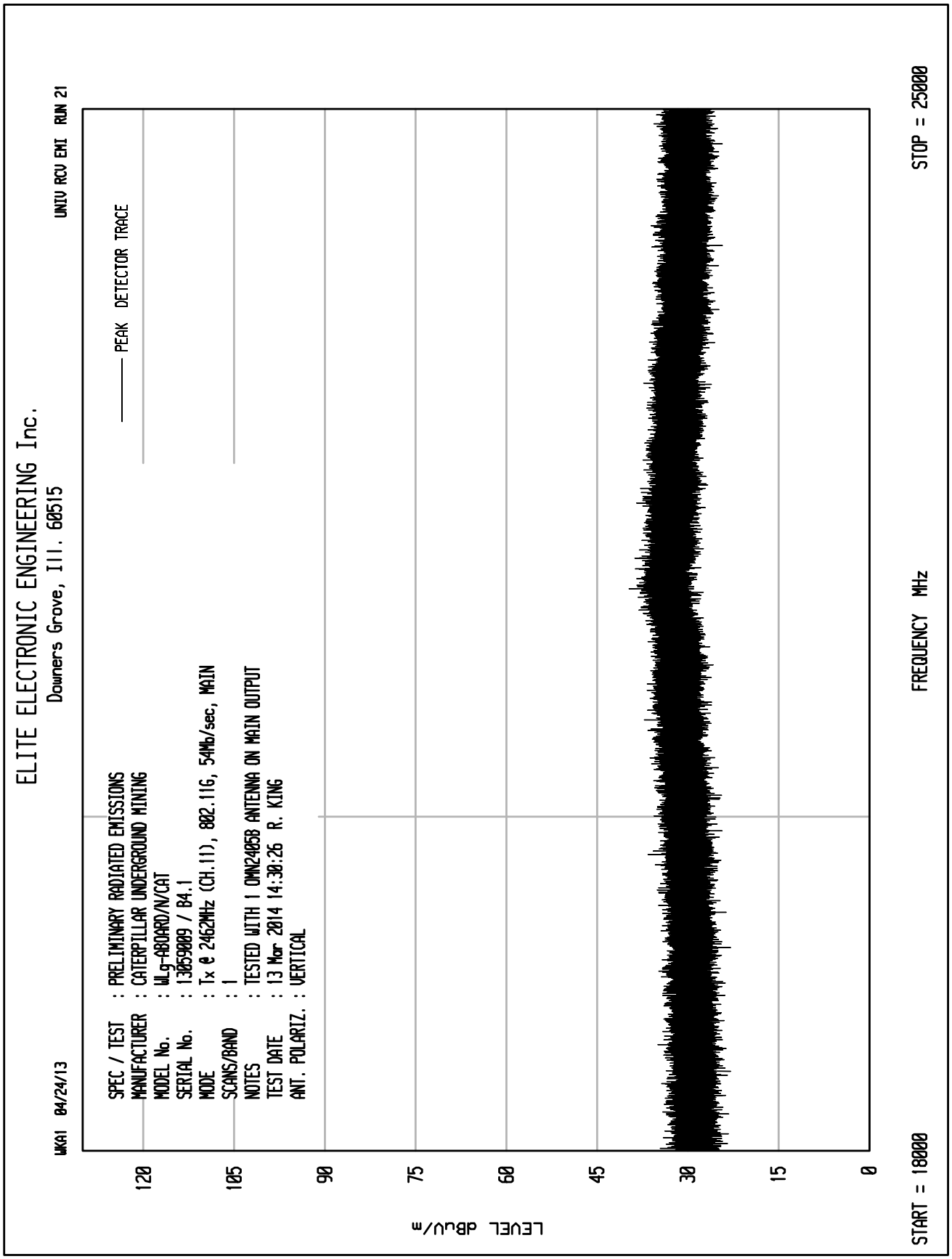

ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 15
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 15:34:12 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 16
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz(Ch.11), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 15:58:01 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 1000
FREQUENCY MHz
STOP = 4500


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 18
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch. 11), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMNI2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 16:02:40 M. LONGINOTTI
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 17
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13056001 / B4.1
MODE : Tx @ 2462MHz (Ch. 11), 802.11g, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH OMN2405B ANTENNA ON MAIN
TEST DATE : 13 Mar 2014 16:00:02 M. LONGINOTTI
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 4500
10000
FREQUENCY MHz
STOP = 18000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 22
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11G, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:34:25 R. KING
ANT. POLARIZ. : HORIZONTAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000


ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515
UNIV RCV EMI RUN 21
WKAI 04/24/13
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CATERPILLAR UNDERGROUND MINING
MODEL No. : WLg-ABOARD/N/CAT
SERIAL No. : 13059009 / B4.1
MODE : Tx @ 2462MHz (CH.11), 802.11G, 54Mb/sec, MAIN
SCANS/BAND : 1
NOTES : TESTED WITH 1 OMN2405B ANTENNA ON MAIN OUTPUT
TEST DATE : 13 Mar 2014 14:30:26 R. KING
ANT. POLARIZ. : VERTICAL
PEAK DETECTOR TRACE
LEVEL dBuV/m
120
105
90
75
60
45
30
15
0
START = 18000
FREQUENCY MHz
STOP = 25000

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands (below 1GHz)
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Quasi-peak Readings in a 120kHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	QP Total dBuV/m at 3m	QP Total uV/m at 3 m	QP Limit uV/m at 3 m	Margin (dB)
37.90	H	10.5		0.3	14.0	0.0	24.9	17.5	100.0	-15.1
37.90	V	25.4		0.3	14.0	0.0	39.8	97.2	100.0	-0.2
121.70	H	24.3		0.6	12.1	0.0	37.0	70.6	150.0	-6.5
121.70	V	22.6		0.6	12.1	0.0	35.3	58.0	150.0	-8.2
125.00	H	25.0		0.6	12.0	0.0	37.6	75.7	150.0	-5.9
125.00	V	26.8		0.6	12.0	0.0	39.4	93.2	150.0	-4.1
250.00	H	12.6		0.8	12.2	0.0	25.6	19.1	200.0	-20.4
250.00	V	18.1		0.8	12.2	0.0	31.1	36.0	200.0	-14.9

Quasi-Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (db) + Pre Amp Gain (dB)

Quasi-Peak Total uV/m = 10^((Quasi-Peak Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4824.00	H	48.6	Ambient	3.7	34.4	-40.1	46.5	212.0	5000.0	-27.5
4824.00	V	48.1	Ambient	3.7	34.4	-40.1	46.0	200.2	5000.0	-28.0
12060.00	H	48.6	Ambient	6.1	39.0	-39.6	54.0	502.5	5000.0	-20.0
12060.00	V	48.2	Ambient	6.1	39.0	-39.6	53.6	479.9	5000.0	-20.4
14472.00	H	48.7	Ambient	6.6	39.5	-39.9	54.9	558.5	5000.0	-19.0
14472.00	V	48.4	Ambient	6.6	39.5	-39.9	54.6	539.5	5000.0	-19.3
19296.00	H	29.2	Ambient	2.2	40.4	-27.9	43.9	156.1	5000.0	-30.1
19296.00	V	28.7	Ambient	2.2	40.4	-27.9	43.3	146.8	5000.0	-30.6

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4824.00	H	48.6	Ambient	3.7	34.4	-40.1	-29.2	17.4	7.4	500.0	-36.6
4824.00	V	48.1	Ambient	3.7	34.4	-40.1	-29.2	16.9	7.0	500.0	-37.1
12060.00	H	48.6	Ambient	6.1	39.0	-39.6	-29.2	24.9	17.5	500.0	-29.1
12060.00	V	48.2	Ambient	6.1	39.0	-39.6	-29.2	24.5	16.7	500.0	-29.5
14472.00	H	48.7	Ambient	6.6	39.5	-39.9	-29.2	25.8	19.5	500.0	-28.2
14472.00	V	48.4	Ambient	6.6	39.5	-39.9	-29.2	25.5	18.8	500.0	-28.5
19296.00	H	29.2	Ambient	2.2	40.4	-27.9	-29.2	14.7	5.4	500.0	-39.3
19296.00	V	28.7	Ambient	2.2	40.4	-27.9	-29.2	14.2	5.1	500.0	-39.8

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = 10^((Average Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4874.00	H	47.9	Ambient	3.7	34.4	-40.2	45.9	196.5	5000.0	-28.1
4874.00	V	47.8	Ambient	3.7	34.4	-40.2	45.8	194.2	5000.0	-28.2
7311.00	H	48.2	Ambient	4.7	35.4	-39.8	48.5	265.9	5000.0	-25.5
7311.00	V	47.8	Ambient	4.7	35.4	-39.8	48.1	254.0	5000.0	-25.9
12185.00	H	48.4	Ambient	6.1	39.0	-39.5	53.9	497.7	5000.0	-20.0
12185.00	V	48.3	Ambient	6.1	39.0	-39.5	53.8	492.0	5000.0	-20.1
19496.00	H	28.5	Ambient	2.2	40.4	-27.8	43.2	145.1	5000.0	-30.7
19496.00	V	28.3	Ambient	2.2	40.4	-27.8	43.1	142.9	5000.0	-30.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4874.00	H	47.9	Ambient	3.7	34.4	-40.2	-29.2	16.7	6.9	500.0	-37.3
4874.00	V	47.8	Ambient	3.7	34.4	-40.2	-29.2	16.6	6.8	500.0	-37.4
7311.00	H	48.20	Ambient	4.7	35.4	-39.8	-29.2	19.3	9.3	500.0	-34.6
7311.00	V	47.8	Ambient	4.7	35.4	-39.8	-29.2	18.9	8.9	500.0	-35.0
12185.00	H	48.4	Ambient	6.1	39.0	-39.5	-29.2	24.8	17.4	500.0	-29.2
12185.00	V	48.3	Ambient	6.1	39.0	-39.5	-29.2	24.7	17.2	500.0	-29.3
19496.00	H	28.5	Ambient	2.2	40.4	-27.8	-29.2	14.1	5.1	500.0	-39.9
19496.00	V	28.3	Ambient	2.2	40.4	-27.8	-29.2	13.9	5.0	500.0	-40.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = 10^((Average Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2462MHz (Ch. 11), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4924.00	H	48.4	Ambient	3.7	34.5	-40.2	46.4	208.9	5000.0	-27.6
4924.00	V	47.8	Ambient	3.7	34.5	-40.2	45.8	195.0	5000.0	-28.2
7386.00	H	47.8	Ambient	4.7	35.4	-39.8	48.2	255.9	5000.0	-25.8
7386.00	V	48.4	Ambient	4.7	35.4	-39.8	48.8	274.2	5000.0	-25.2
12310.00	H	48.6	Ambient	6.1	38.9	-39.4	54.2	513.8	5000.0	-19.8
12310.00	V	48.6	Ambient	6.1	38.9	-39.4	54.2	513.8	5000.0	-19.8
19696.00	H	28.0	Ambient	2.2	40.4	-27.8	42.7	137.0	5000.0	-31.2
19696.00	V	28.3	Ambient	2.2	40.4	-27.8	43.1	143.3	5000.0	-30.9
22158.00	H	30.0	Ambient	2.2	40.6	-28.5	44.3	164.9	5000.0	-29.6
22158.00	V	29.8	Ambient	2.2	40.6	-28.5	44.1	160.1	5000.0	-29.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2462MHz (Ch. 11), 802.11b, 11Mb/sec, Diversity
Notes : Tested with RFI Model No. DAS-M1 on Main Antenna Port and Auxiliary Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4924.00	H	48.4	Ambient	3.7	34.5	-40.2	-29.2	17.2	7.3	500.0	-36.7
4924.00	V	47.8	Ambient	3.7	34.5	-40.2	-29.2	16.6	6.8	500.0	-37.3
7386.00	H	47.80	Ambient	4.7	35.4	-39.8	-29.2	19.0	8.9	500.0	-35.0
7386.00	V	48.4	Ambient	4.7	35.4	-39.8	-29.2	19.6	9.6	500.0	-34.4
12310.00	H	48.6	Ambient	6.1	38.9	-39.4	-29.2	25.1	17.9	500.0	-28.9
12310.00	V	48.6	Ambient	6.1	38.9	-39.4	-29.2	25.1	17.9	500.0	-28.9
19696.00	H	28.0	Ambient	2.2	40.4	-27.8	-29.2	13.6	4.8	500.0	-40.4
19696.00	V	28.3	Ambient	2.2	40.4	-27.8	-29.2	14.0	5.0	500.0	-40.0
22158.00	H	30.0	Ambient	2.2	40.6	-28.5	-29.2	15.2	5.8	500.0	-38.8
22158.00	V	29.8	Ambient	2.2	40.6	-28.5	-29.2	15.0	5.6	500.0	-39.0

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = 10^((Average Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands (below 1GHz)
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, Main
Notes : Tested with PacSat OMN2405B on Main Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Quasi-peak Readings in a 120kHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	QP Total dBuV/m at 3m	QP Total uV/m at 3 m	QP Limit uV/m at 3 m	Margin (dB)
37.92	H	10.5		0.3	14.0	0.0	24.8	17.5	100.0	-15.2
37.92	V	25.3		0.3	14.0	0.0	39.6	96.0	100.0	-0.4
119.90	H	18.5		0.6	12.2	0.0	31.3	36.6	150.0	-12.3
119.90	V	11.3		0.6	12.2	0.0	24.1	16.0	150.0	-19.5
125.00	H	15.5		0.6	12.0	0.0	28.1	25.4	150.0	-15.4
125.00	V	30.7		0.6	12.0	0.0	43.3	145.9	150.0	-0.2
250.00	H	19.2		0.8	12.2	0.0	32.2	40.8	200.0	-13.8
250.00	V	20.0		0.8	12.2	0.0	33.0	44.8	200.0	-13.0

Quasi-Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Quasi-Peak Total uV/m = 10^((Quasi-Peak Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, Main
Notes : Tested with PacSat OMN2405B on Main Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4824.00	H	46.7	Ambient	3.7	34.4	-40.1	44.6	170.4	5000.0	-29.4
4824.00	V	48.3	Ambient	3.7	34.4	-40.1	46.2	204.8	5000.0	-27.8
12060.00	H	48.5	Ambient	6.1	39.0	-39.6	53.9	496.8	5000.0	-20.1
12060.00	V	47.9	Ambient	6.1	39.0	-39.6	53.3	463.6	5000.0	-20.7
14472.00	H	47.9	Ambient	6.6	39.5	-39.9	54.1	509.3	5000.0	-19.8
14472.00	V	48.0	Ambient	6.6	39.5	-39.9	54.2	515.2	5000.0	-19.7
19296.00	H	29.4	Ambient	2.2	40.4	-27.9	44.0	158.6	5000.0	-30.0
19296.00	V	30.2	Ambient	2.2	40.4	-27.9	44.9	175.7	5000.0	-29.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11b, 11Mb/sec, Main
Notes : Tested with PacSat OMN2405B on Main Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
4824.00	H	46.7	Ambient	3.7	34.4	-40.1	-29.2	15.5	5.9	500.0	-38.5
4824.00	V	48.3	Ambient	3.7	34.4	-40.1	-29.2	17.1	7.1	500.0	-36.9
12060.00	H	48.5	Ambient	6.1	39.0	-39.6	-29.2	24.8	17.3	500.0	-29.2
12060.00	V	47.9	Ambient	6.1	39.0	-39.6	-29.2	24.2	16.2	500.0	-29.8
14472.00	H	47.9	Ambient	6.6	39.5	-39.9	-29.2	25.0	17.8	500.0	-29.0
14472.00	V	48.0	Ambient	6.6	39.5	-39.9	-29.2	25.1	18.0	500.0	-28.9
19296.00	H	29.4	Ambient	2.2	40.4	-27.9	-29.2	14.9	5.5	500.0	-39.1
19296.00	V	30.2	Ambient	2.2	40.4	-27.9	-29.2	15.7	6.1	500.0	-38.2

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = 10^((Average Total (dBuV/m))/20)

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Spurious Radiated Emissions in Restricted Bands
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2437MHz (Ch. 6), 802.11b, 11Mb/sec, Main
Notes : Tested with PacSat OMN2405B on Main Antenna Port
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
4874.00	H	47.6	Ambient	3.7	34.4	-40.2	45.6	189.8	5000.0	-28.4
4874.00	V	47.7	Ambient	3.7	34.4	-40.2	45.7	192.0	5000.0	-28.3
7311.00	H	47.8	Ambient	4.7	35.4	-39.8	48.1	254.0	5000.0	-25.9
7311.00	V	47.7	Ambient	4.7	35.4	-39.8	48.0	251.1	5000.0	-26.0
12185.00	H	48.9	Ambient	6.1	39.0	-39.5	54.4	527.2	5000.0	-19.5
12185.00	V	48.3	Ambient	6.1	39.0	-39.5	53.8	492.0	5000.0	-20.1
19496.00	H	30.2	Ambient	2.2	40.4	-27.8	44.9	176.7	5000.0	-29.0
19496.00	V	29.6	Ambient	2.2	40.4	-27.8	44.4	165.3	5000.0	-29.6

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)