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 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	47.6	Ambient	3.7	34.4	-40.2	-29.2	16.4	6.6	500.0	-37.6
4874.00	V	47.7	Ambient	3.7	34.4	-40.2	-29.2	16.5	6.7	500.0	-37.5
7311.00	H	47.8	Ambient	4.7	35.4	-39.8	-29.2	18.9	8.9	500.0	-35.0
7311.00	V	47.7	Ambient	4.7	35.4	-39.8	-29.2	18.8	8.8	500.0	-35.1
12185.00	H	48.9	Ambient	6.1	39.0	-39.5	-29.2	25.3	18.4	500.0	-28.7
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	30.2	Ambient	2.2	40.4	-27.8	-29.2	15.8	6.2	500.0	-38.2
19496.00	V	29.6	Ambient	2.2	40.4	-27.8	-29.2	15.2	5.8	500.0	-38.8

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 @ 2462MHz (Ch. 11), 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)
4924.00	H	48.2	Ambient	3.7	34.5	-40.2	46.2	204.2	5000.0	-27.8
4924.00	V	48.5	Ambient	3.7	34.5	-40.2	46.5	211.3	5000.0	-27.5
7386.00	H	47.5	Ambient	4.7	35.4	-39.8	47.9	247.2	5000.0	-26.1
7386.00	V	47.9	Ambient	4.7	35.4	-39.8	48.3	258.8	5000.0	-25.7
12310.00	H	48.5	Ambient	6.1	38.9	-39.4	54.1	508.0	5000.0	-19.9
12310.00	V	48.3	Ambient	6.1	38.9	-39.4	53.9	496.4	5000.0	-20.1
19696.00	H	28.2	Ambient	2.2	40.4	-27.8	43.0	141.2	5000.0	-31.0
19696.00	V	28.1	Ambient	2.2	40.4	-27.8	42.9	139.1	5000.0	-31.1
22158.00	H	30.2	Ambient	2.2	40.6	-28.5	44.6	169.2	5000.0	-29.4
22158.00	V	30.8	Ambient	2.2	40.6	-28.5	45.2	181.5	5000.0	-28.8

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, 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)
4924.00	H	48.2	Ambient	3.7	34.5	-40.2	-29.2	17.0	7.1	500.0	-36.9
4924.00	V	48.5	Ambient	3.7	34.5	-40.2	-29.2	17.3	7.4	500.0	-36.6
7386.00	H	47.5	Ambient	4.7	35.4	-39.8	-29.2	18.7	8.6	500.0	-35.3
7386.00	V	47.9	Ambient	4.7	35.4	-39.8	-29.2	19.1	9.0	500.0	-34.9
12310.00	H	48.5	Ambient	6.1	38.9	-39.4	-29.2	25.0	17.7	500.0	-29.0
12310.00	V	48.3	Ambient	6.1	38.9	-39.4	-29.2	24.8	17.3	500.0	-29.2
19696.00	H	28.2	Ambient	2.2	40.4	-27.8	-29.2	13.8	4.9	500.0	-40.1
19696.00	V	28.1	Ambient	2.2	40.4	-27.8	-29.2	13.7	4.9	500.0	-40.3
22158.00	H	30.2	Ambient	2.2	40.6	-28.5	-29.2	15.4	5.9	500.0	-38.6
22158.00	V	30.8	Ambient	2.2	40.6	-28.5	-29.2	16.0	6.3	500.0	-38.0

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
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2412MHz (Ch. 1), 802.11g, 54Mb/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	48.4	Ambient	3.7	34.4	-40.1	46.3	207.2	5000.0	-27.7
4824.00	V	49.5	Ambient	3.7	34.4	-40.1	47.4	235.2	5000.0	-26.6
12060.00	H	48.8	Ambient	6.1	39.0	-39.6	54.2	514.2	5000.0	-19.8
12060.00	V	48.8	Ambient	6.1	39.0	-39.6	54.2	514.2	5000.0	-19.8
14472.00	H	48.1	Ambient	6.6	39.5	-39.9	54.3	521.2	5000.0	-19.6
14472.00	V	48.3	Ambient	6.6	39.5	-39.9	54.5	533.4	5000.0	-19.4
19296.00	H	27.8	Ambient	2.2	40.4	-27.9	42.5	132.7	5000.0	-31.5
19296.00	V	28.9	Ambient	2.2	40.4	-27.9	43.6	150.8	5000.0	-30.4

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), 802.11g, 54Mb/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	48.4	Ambient	3.7	34.4	-40.1	-51.9	-5.6	0.5	500.0	-59.6
4824.00	V	49.5	Ambient	3.7	34.4	-40.1	-51.9	-4.5	0.6	500.0	-58.5
12060.00	H	48.8	Ambient	6.1	39.0	-39.6	-51.9	2.3	1.3	500.0	-51.7
12060.00	V	48.8	Ambient	6.1	39.0	-39.6	-51.9	2.3	1.3	500.0	-51.7
14472.00	H	48.1	Ambient	6.6	39.5	-39.9	-51.9	2.4	1.3	500.0	-51.6
14472.00	V	48.3	Ambient	6.6	39.5	-39.9	-51.9	2.6	1.4	500.0	-51.4
19296.00	H	27.8	Ambient	2.2	40.4	-27.9	-51.9	-9.5	0.3	500.0	-63.5
19296.00	V	28.9	Ambient	2.2	40.4	-27.9	-51.9	-8.4	0.4	500.0	-62.3

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 @ 2437MHz (Ch. 6), 802.11g, 54Mb/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)
37.92	H	10.2		0.3	14.0	0.0	24.5	16.9	100.0	-15.5
37.92	V	25.5		0.3	14.0	0.0	39.8	98.3	100.0	-0.2
121.74	H	25.8		0.6	12.1	0.0	38.5	83.9	150.0	-5.0
121.74	V	22.6		0.6	12.1	0.0	35.3	58.0	150.0	-8.2
125.00	H	22.9		0.6	12.0	0.0	35.5	59.5	150.0	-8.0
125.00	V	30.5		0.6	12.0	0.0	43.1	142.6	150.0	-0.4
250.00	H	13.6		0.8	12.2	0.0	26.6	21.4	200.0	-19.4
250.00	V	19.8		0.8	12.2	0.0	32.8	43.8	200.0	-13.2

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 @ 2437MHz (Ch. 6), 802.11g, 54Mb/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	48.9	Ambient	3.7	34.4	-40.2	46.9	220.5	5000.0	-27.1
7311.00	H	48.2	Ambient	4.7	35.4	-39.8	48.5	265.9	5000.0	-25.5
7311.00	V	47.7	Ambient	4.7	35.4	-39.8	48.0	251.1	5000.0	-26.0
12185.00	H	48.5	Ambient	6.1	39.0	-39.5	54.0	503.4	5000.0	-19.9
12185.00	V	48.5	Ambient	6.1	39.0	-39.5	54.0	503.4	5000.0	-19.9
19496.00	H	29.8	Ambient	2.2	40.4	-27.8	44.5	168.7	5000.0	-29.4
19496.00	V	30.6	Ambient	2.2	40.4	-27.8	45.4	186.1	5000.0	-28.6

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 @ 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	-51.9	-6.1	0.5	500.0	-60.0
4874.00	V	48.9	Ambient	3.7	34.4	-40.2	-51.9	-5.1	0.6	500.0	-59.0
7311.00	H	48.20	Ambient	4.7	35.4	-39.8	-51.9	-3.4	0.7	500.0	-57.4
7311.00	V	47.7	Ambient	4.7	35.4	-39.8	-51.9	-3.9	0.6	500.0	-57.9
12185.00	H	48.5	Ambient	6.1	39.0	-39.5	-51.9	2.1	1.3	500.0	-51.9
12185.00	V	48.5	Ambient	6.1	39.0	-39.5	-51.9	2.1	1.3	500.0	-51.9
19496.00	H	29.8	Ambient	2.2	40.4	-27.8	-51.9	-7.4	0.4	500.0	-61.4
19496.00	V	30.6	Ambient	2.2	40.4	-27.8	-51.9	-6.5	0.5	500.0	-60.5

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), 802.11g, 54Mb/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	47.5	Ambient	3.7	34.5	-40.2	45.5	188.4	5000.0	-28.5
4924.00	V	48.2	Ambient	3.7	34.5	-40.2	46.2	204.2	5000.0	-27.8
7386.00	H	48.0	Ambient	4.7	35.4	-39.8	48.4	261.8	5000.0	-25.6
7386.00	V	47.5	Ambient	4.7	35.4	-39.8	47.9	247.2	5000.0	-26.1
12310.00	H	47.9	Ambient	6.1	38.9	-39.4	53.5	474.1	5000.0	-20.5
12310.00	V	48.0	Ambient	6.1	38.9	-39.4	53.6	479.5	5000.0	-20.4
19696.00	H	29.7	Ambient	2.2	40.4	-27.8	44.5	168.0	5000.0	-29.5
19696.00	V	29.0	Ambient	2.2	40.4	-27.8	43.8	154.6	5000.0	-30.2
22158.00	H	31.4	Ambient	2.2	40.6	-28.5	45.8	194.4	5000.0	-28.2
22158.00	V	31.0	Ambient	2.2	40.6	-28.5	45.3	184.8	5000.0	-28.6

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 @ 2462MHz (Ch. 11), 802.11g, 54Mb/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	47.5	Ambient	3.7	34.5	-40.2	-51.9	-6.4	0.5	500.0	-60.4
4924.00	V	48.2	Ambient	3.7	34.5	-40.2	-51.9	-5.7	0.5	500.0	-59.7
7386.00	H	48.00	Ambient	4.7	35.4	-39.8	-51.9	-3.6	0.7	500.0	-57.5
7386.00	V	47.5	Ambient	4.7	35.4	-39.8	-51.9	-4.1	0.6	500.0	-58.0
12310.00	H	47.9	Ambient	6.1	38.9	-39.4	-51.9	1.6	1.2	500.0	-52.4
12310.00	V	48.0	Ambient	6.1	38.9	-39.4	-51.9	1.7	1.2	500.0	-52.3
19696.00	H	29.7	Ambient	2.2	40.4	-27.8	-51.9	-7.4	0.4	500.0	-61.4
19696.00	V	29.0	Ambient	2.2	40.4	-27.8	-51.9	-8.1	0.4	500.0	-62.1
22158.00	H	31.4	Ambient	2.2	40.6	-28.5	-51.9	-6.2	0.5	500.0	-60.2
22158.00	V	31.0	Ambient	2.2	40.6	-28.5	-51.9	-6.6	0.5	500.0	-60.6

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 @ 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	46.8	Ambient	3.7	34.4	-40.1	44.7	172.4	5000.0	-29.3
4824.00	V	47.0	Ambient	3.7	34.4	-40.1	44.9	176.4	5000.0	-29.1
12060.00	H	48.5	Ambient	6.1	39.0	-39.6	53.9	496.8	5000.0	-20.1
12060.00	V	47.6	Ambient	6.1	39.0	-39.6	53.0	447.9	5000.0	-21.0
14472.00	H	47.8	Ambient	6.6	39.5	-39.9	54.0	503.5	5000.0	-19.9
14472.00	V	47.9	Ambient	6.6	39.5	-39.9	54.1	509.3	5000.0	-19.8
19296.00	H	28.0	Ambient	2.2	40.4	-27.9	42.6	135.0	5000.0	-31.4
19296.00	V	28.0	Ambient	2.2	40.4	-27.9	42.6	135.0	5000.0	-31.4

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), 802.11g, 54Mb/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	46.8	Ambient	3.7	34.4	-40.1	-51.9	-7.2	0.4	500.0	-61.2
4824.00	V	47.0	Ambient	3.7	34.4	-40.1	-51.9	-7.0	0.4	500.0	-61.0
12060.00	H	48.5	Ambient	6.1	39.0	-39.6	-51.9	2.0	1.3	500.0	-52.0
12060.00	V	47.6	Ambient	6.1	39.0	-39.6	-51.9	1.1	1.1	500.0	-52.9
14472.00	H	47.8	Ambient	6.6	39.5	-39.9	-51.9	2.1	1.3	500.0	-51.9
14472.00	V	47.9	Ambient	6.6	39.5	-39.9	-51.9	2.2	1.3	500.0	-51.8
19296.00	H	28.0	Ambient	2.2	40.4	-27.9	-51.9	-9.3	0.3	500.0	-63.3
19296.00	V	28.0	Ambient	2.2	40.4	-27.9	-51.9	-9.3	0.3	500.0	-63.3

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 @ 2437MHz (Ch. 6), 802.11g, 54Mb/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	11.4		0.3	14.0	0.0	25.7	19.4	100.0	-14.3
37.92	V	25.2		0.3	14.0	0.0	39.5	94.9	100.0	-0.5
121.40	H	12.3		0.6	12.1	0.0	25.0	17.7	150.0	-18.5
121.40	V	23.4		0.6	12.1	0.0	36.1	63.6	150.0	-7.4
125.00	H	15.6		0.6	12.0	0.0	28.2	25.7	150.0	-15.3
125.00	V	30.6		0.6	12.0	0.0	43.2	144.3	150.0	-0.3
250.00	H	19.5		0.8	12.2	0.0	32.5	42.3	200.0	-13.5
250.00	V	20.6		0.8	12.2	0.0	33.6	48.0	200.0	-12.4

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 @ 2437MHz (Ch. 6), 802.11g, 54Mb/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	48.3	Ambient	3.7	34.4	-40.2	46.3	205.7	5000.0	-27.7
4874.00	V	48.3	Ambient	3.7	34.4	-40.2	46.3	205.7	5000.0	-27.7
7311.00	H	47.6	Ambient	4.7	35.4	-39.8	47.9	248.2	5000.0	-26.1
7311.00	V	48.3	Ambient	4.7	35.4	-39.8	48.6	269.0	5000.0	-25.4
12185.00	H	47.8	Ambient	6.1	39.0	-39.5	53.3	464.5	5000.0	-20.6
12185.00	V	47.9	Ambient	6.1	39.0	-39.5	53.4	469.8	5000.0	-20.5
19496.00	H	28.5	Ambient	2.2	40.4	-27.8	43.2	145.1	5000.0	-30.7
19496.00	V	28.6	Ambient	2.2	40.4	-27.8	43.4	147.3	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 @ 2437MHz (Ch. 6), 802.11g, 54Mb/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)
4874.00	H	48.3	Ambient	3.7	34.4	-40.2	-51.9	-5.7	0.5	500.0	-59.6
4874.00	V	48.3	Ambient	3.7	34.4	-40.2	-51.9	-5.7	0.5	500.0	-59.6
7311.00	H	47.6	Ambient	4.7	35.4	-39.8	-51.9	-4.0	0.6	500.0	-58.0
7311.00	V	48.3	Ambient	4.7	35.4	-39.8	-51.9	-3.3	0.7	500.0	-57.3
12185.00	H	47.8	Ambient	6.1	39.0	-39.5	-51.9	1.4	1.2	500.0	-52.6
12185.00	V	47.9	Ambient	6.1	39.0	-39.5	-51.9	1.5	1.2	500.0	-52.5
19496.00	H	28.5	Ambient	2.2	40.4	-27.8	-51.9	-8.7	0.4	500.0	-62.6
19496.00	V	28.6	Ambient	2.2	40.4	-27.8	-51.9	-8.6	0.4	500.0	-62.5

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), 802.11g, 54Mb/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)
4924.00	H	47.9	Ambient	3.7	34.5	-40.2	45.9	197.2	5000.0	-28.1
4924.00	V	47.6	Ambient	3.7	34.5	-40.2	45.6	190.5	5000.0	-28.4
7386.00	H	47.4	Ambient	4.7	35.4	-39.8	47.8	244.3	5000.0	-26.2
7386.00	V	48.2	Ambient	4.7	35.4	-39.8	48.6	267.9	5000.0	-25.4
12310.00	H	48.2	Ambient	6.1	38.9	-39.4	53.8	490.7	5000.0	-20.2
12310.00	V	48.3	Ambient	6.1	38.9	-39.4	53.9	496.4	5000.0	-20.1
19696.00	H	28.3	Ambient	2.2	40.4	-27.8	43.1	143.3	5000.0	-30.9
19696.00	V	28.2	Ambient	2.2	40.4	-27.8	43.0	141.2	5000.0	-31.0
22158.00	H	30.0	Ambient	2.2	40.6	-28.5	44.3	164.9	5000.0	-29.6
22158.00	V	29.6	Ambient	2.2	40.6	-28.5	44.0	157.9	5000.0	-30.0

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

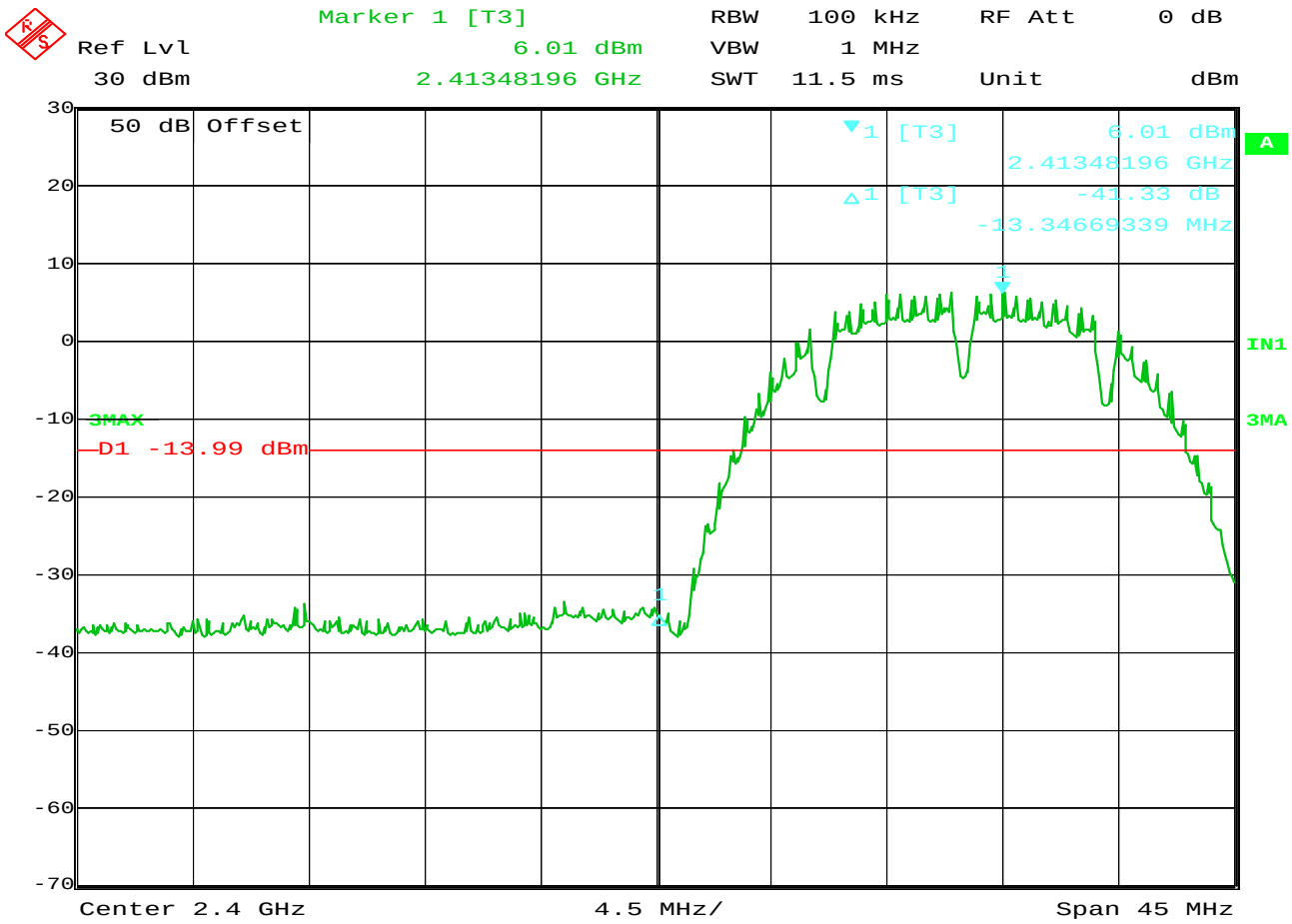
Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)

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), 802.11g, 54Mb/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)
4924.00	H	47.9	Ambient	3.7	34.5	-40.2	-51.9	-6.0	0.5	500.0	-60.0
4924.00	V	47.6	Ambient	3.7	34.5	-40.2	-51.9	-6.3	0.5	500.0	-60.3
7386.00	H	47.4	Ambient	4.7	35.4	-39.8	-51.9	-4.2	0.6	500.0	-58.1
7386.00	V	48.2	Ambient	4.7	35.4	-39.8	-51.9	-3.4	0.7	500.0	-57.3
12310.00	H	48.2	Ambient	6.1	38.9	-39.4	-51.9	1.9	1.2	500.0	-52.1
12310.00	V	48.3	Ambient	6.1	38.9	-39.4	-51.9	2.0	1.3	500.0	-52.0
19696.00	H	28.3	Ambient	2.2	40.4	-27.8	-51.9	-8.8	0.4	500.0	-62.8
19696.00	V	28.2	Ambient	2.2	40.4	-27.8	-51.9	-8.9	0.4	500.0	-62.9
22158.00	H	30.0	Ambient	2.2	40.6	-28.5	-51.9	-7.6	0.4	500.0	-61.6
22158.00	V	29.6	Ambient	2.2	40.6	-28.5	-51.9	-8.0	0.4	500.0	-61.9

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

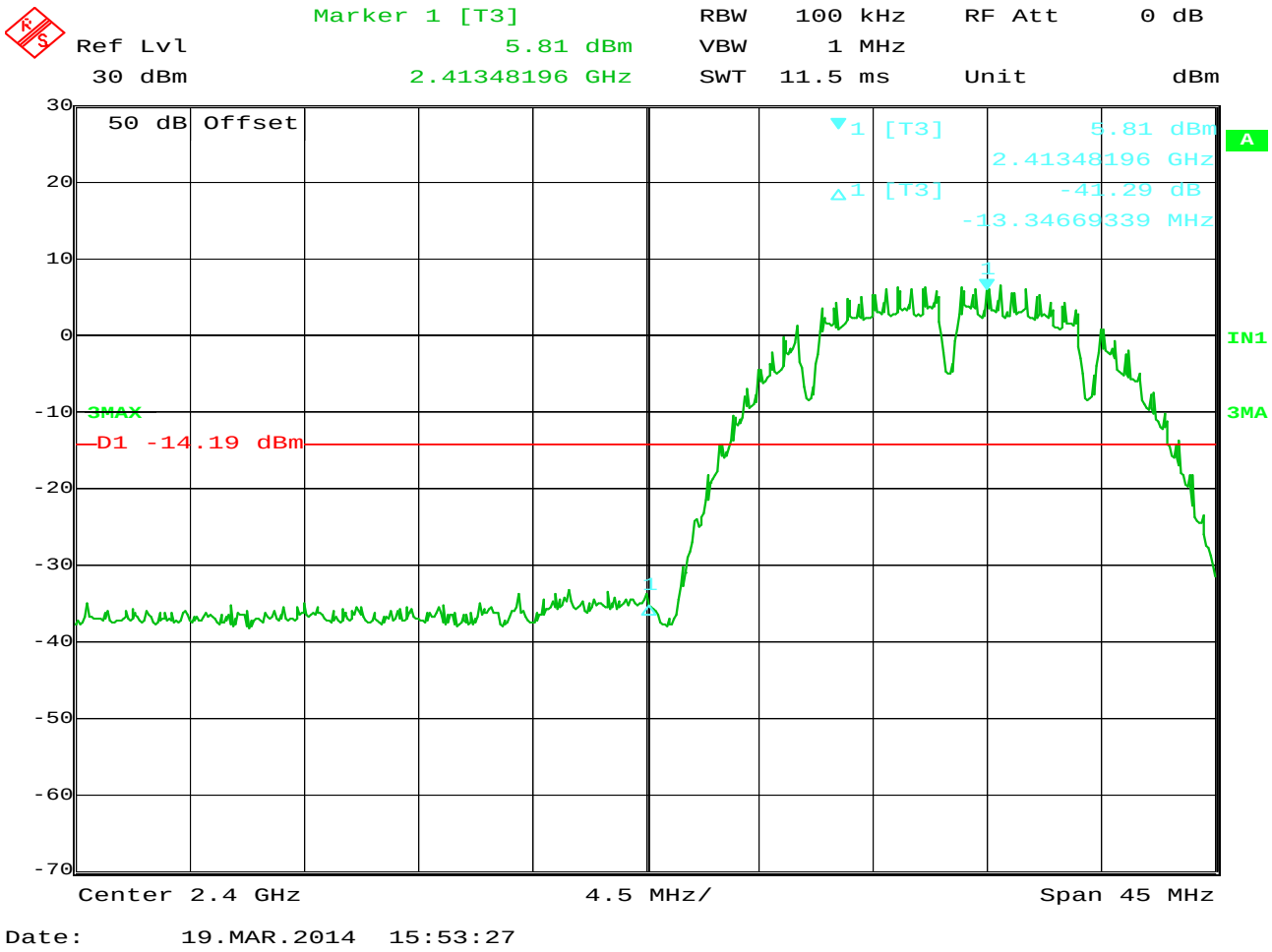
Average Total uV/m = 10^((Average Total (dBuV/m))/20)



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	1MB/s
NOTES	:	

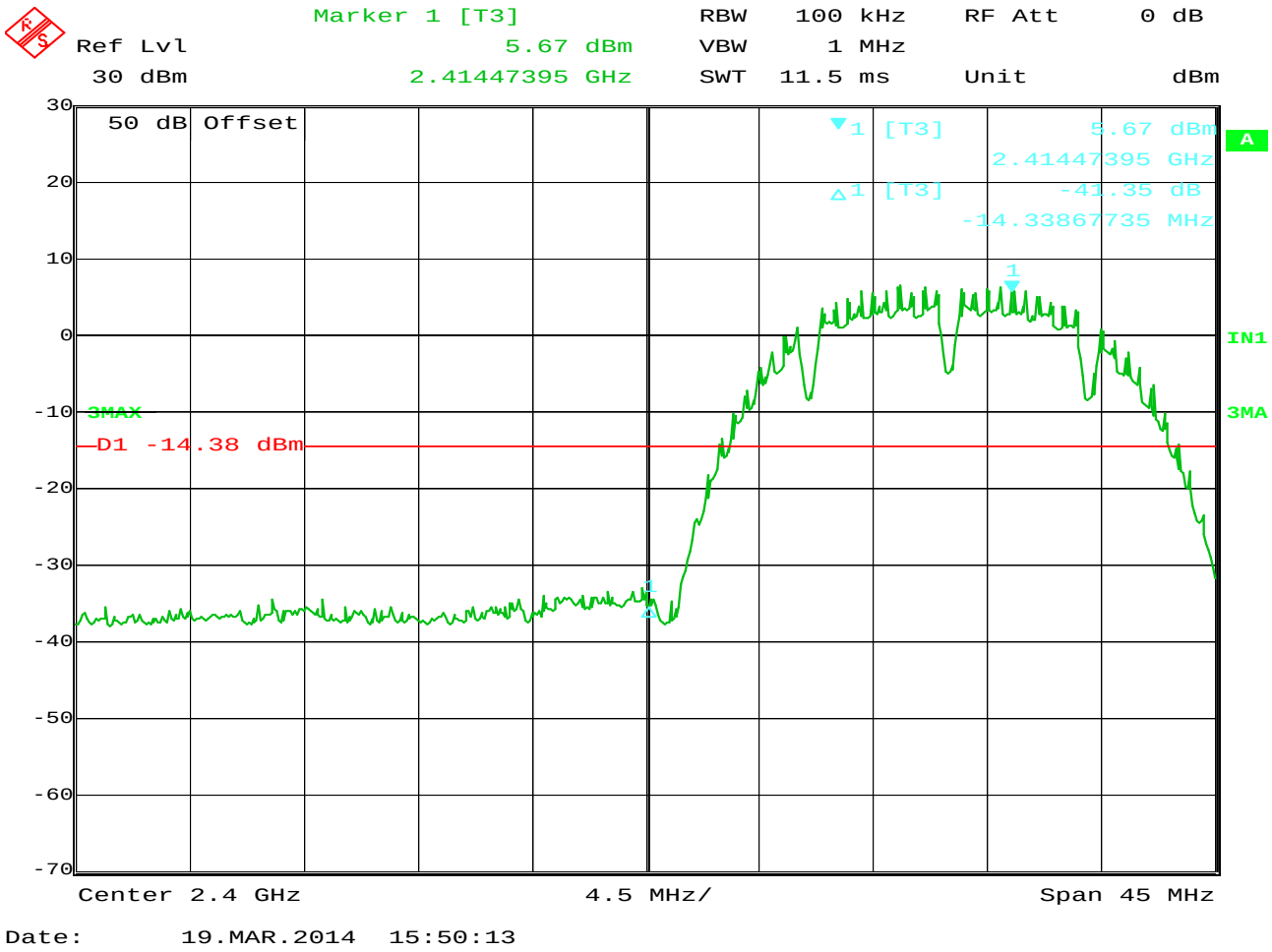
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	2MB/s
NOTES	:	

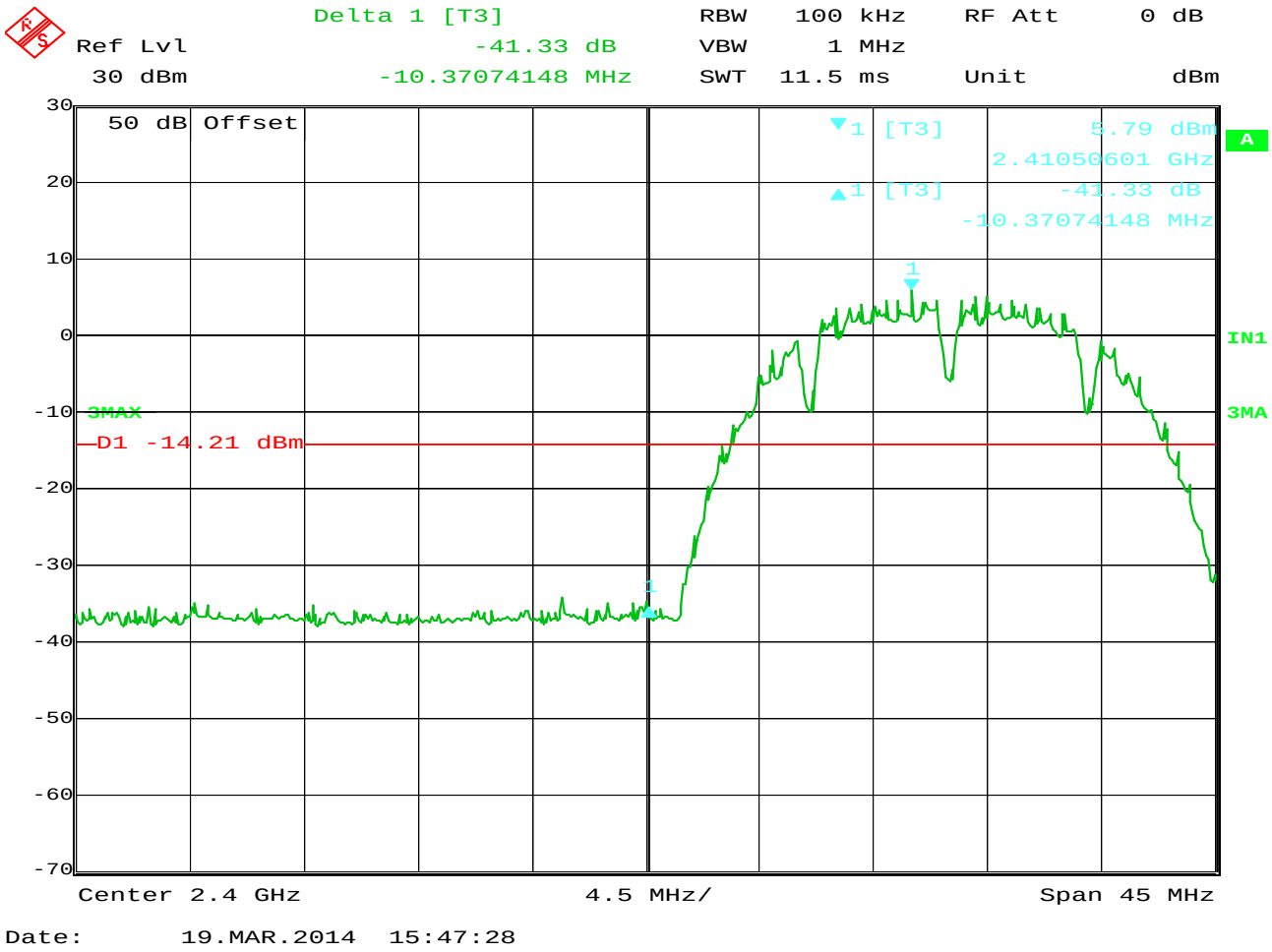
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	5.5MB/s
NOTES	:	

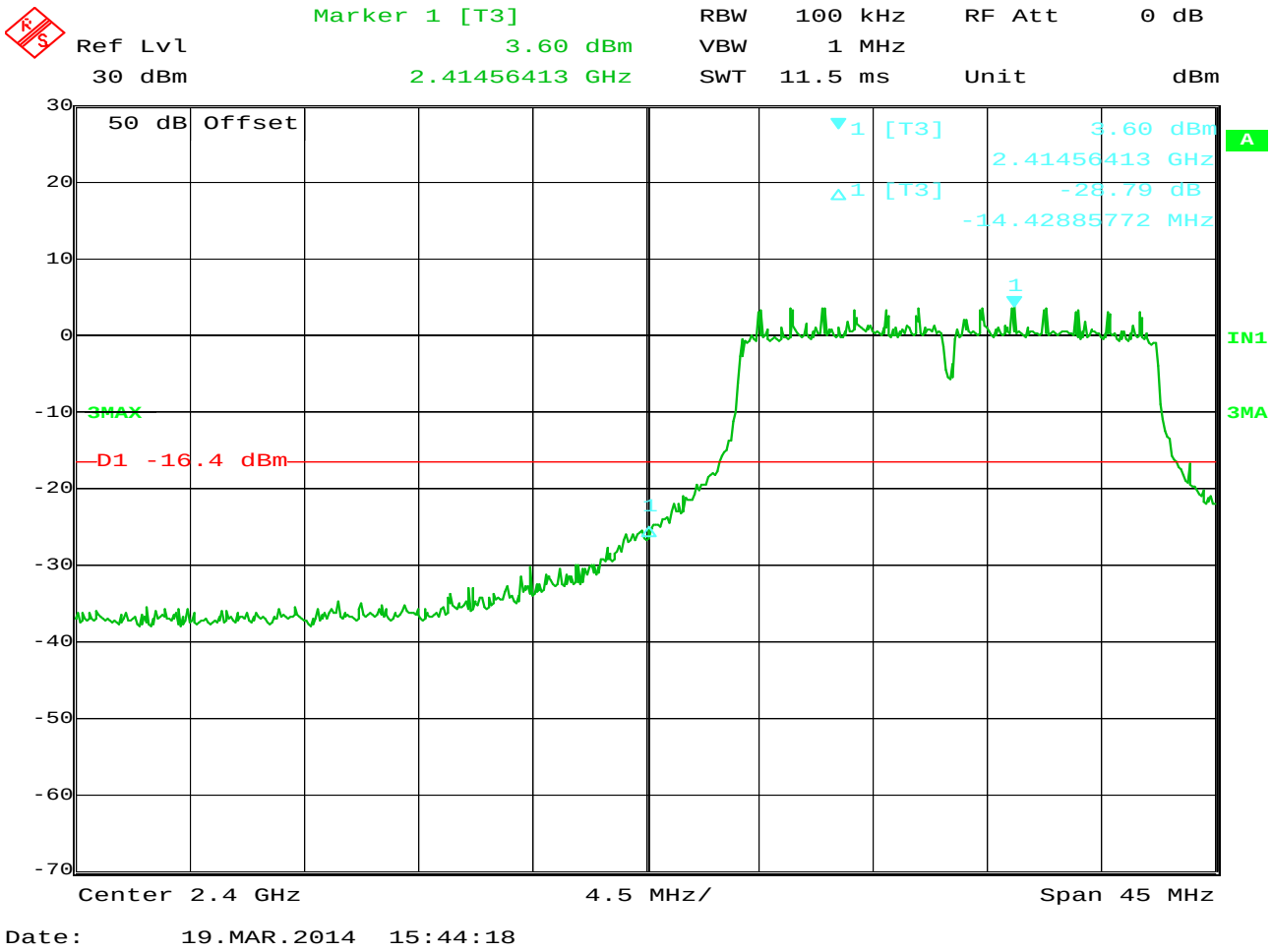
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	11MB/s
NOTES	:	

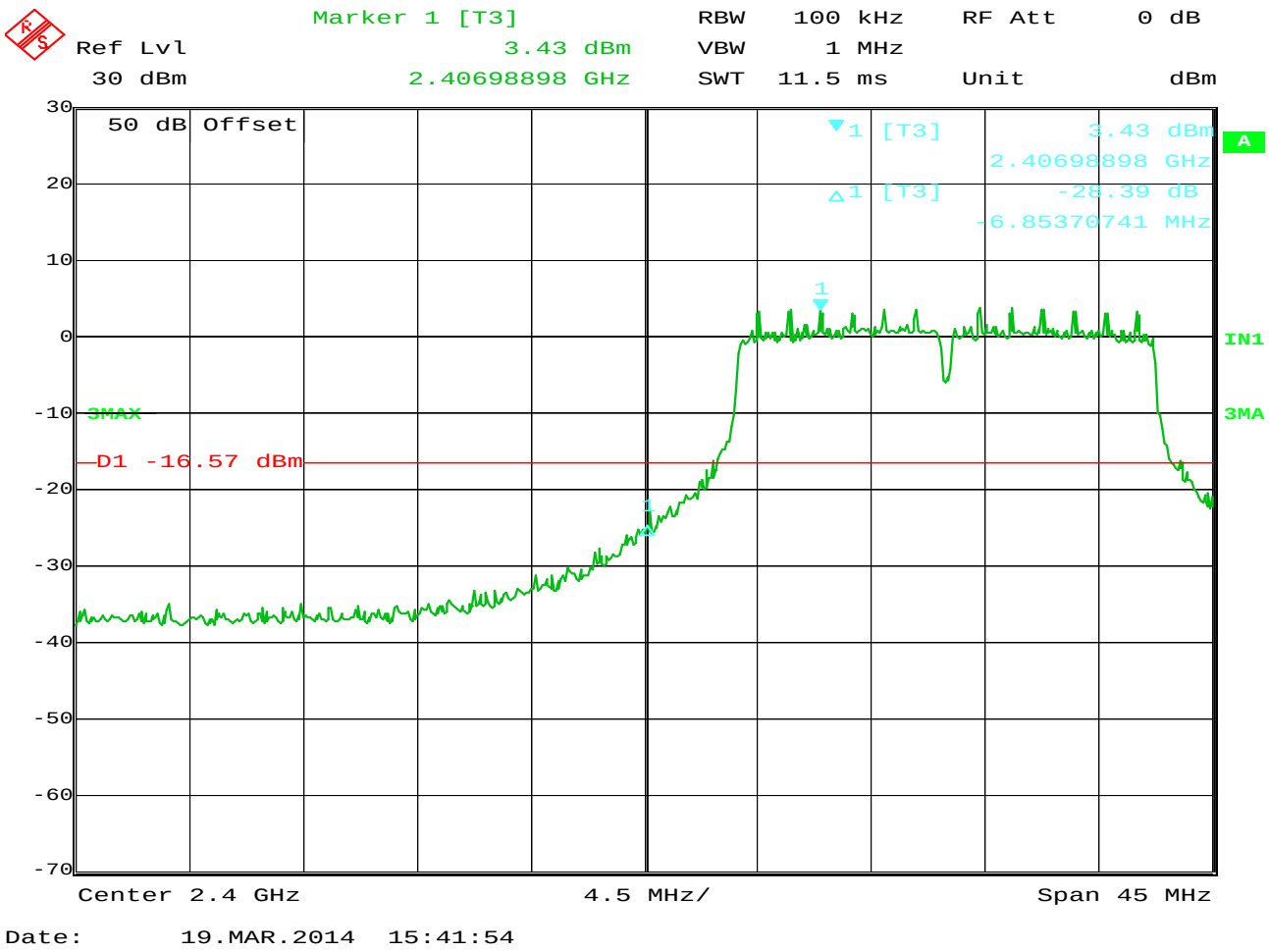
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	6MB/s
NOTES	:	

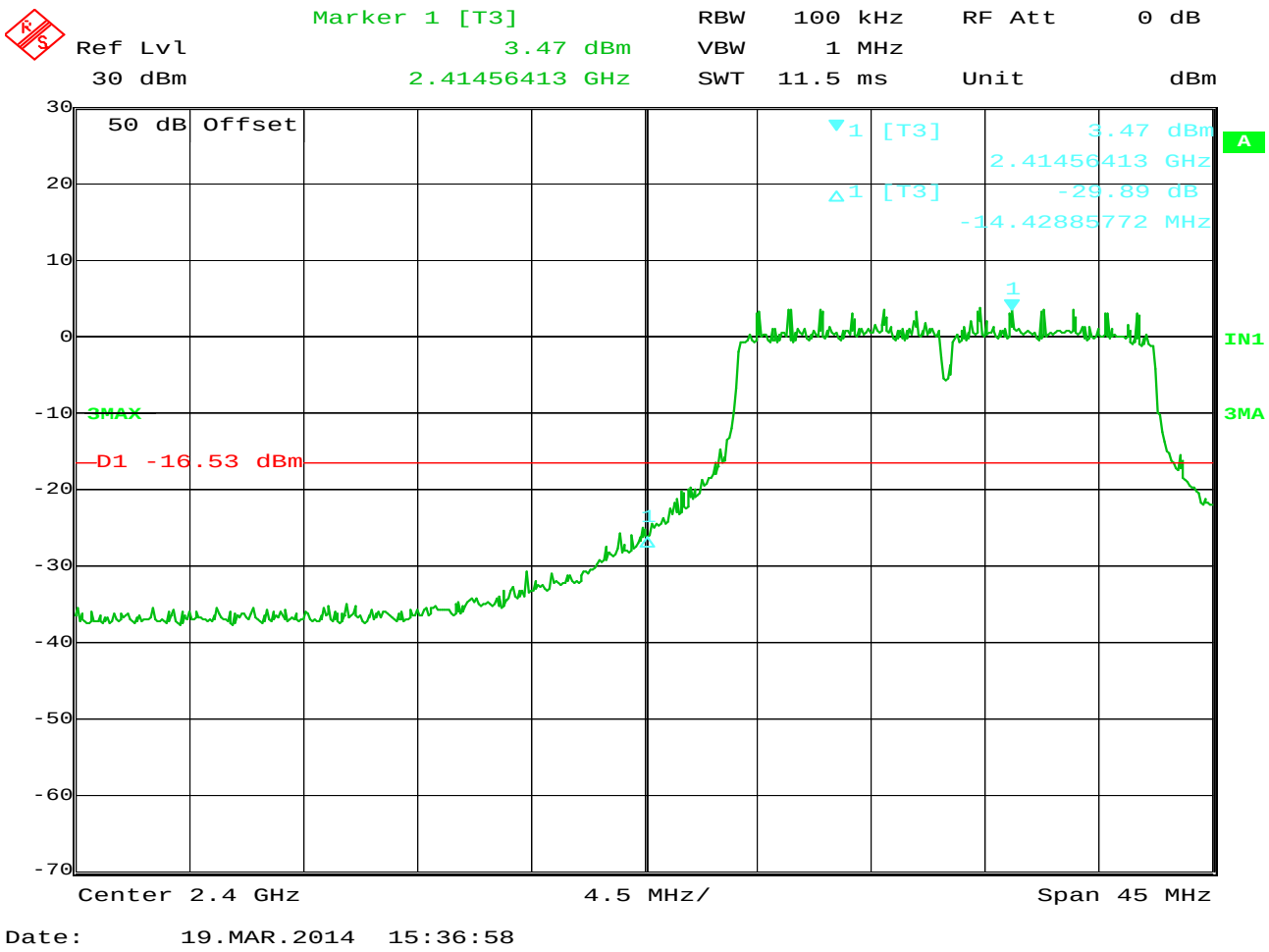
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	9MB/s
NOTES	:	

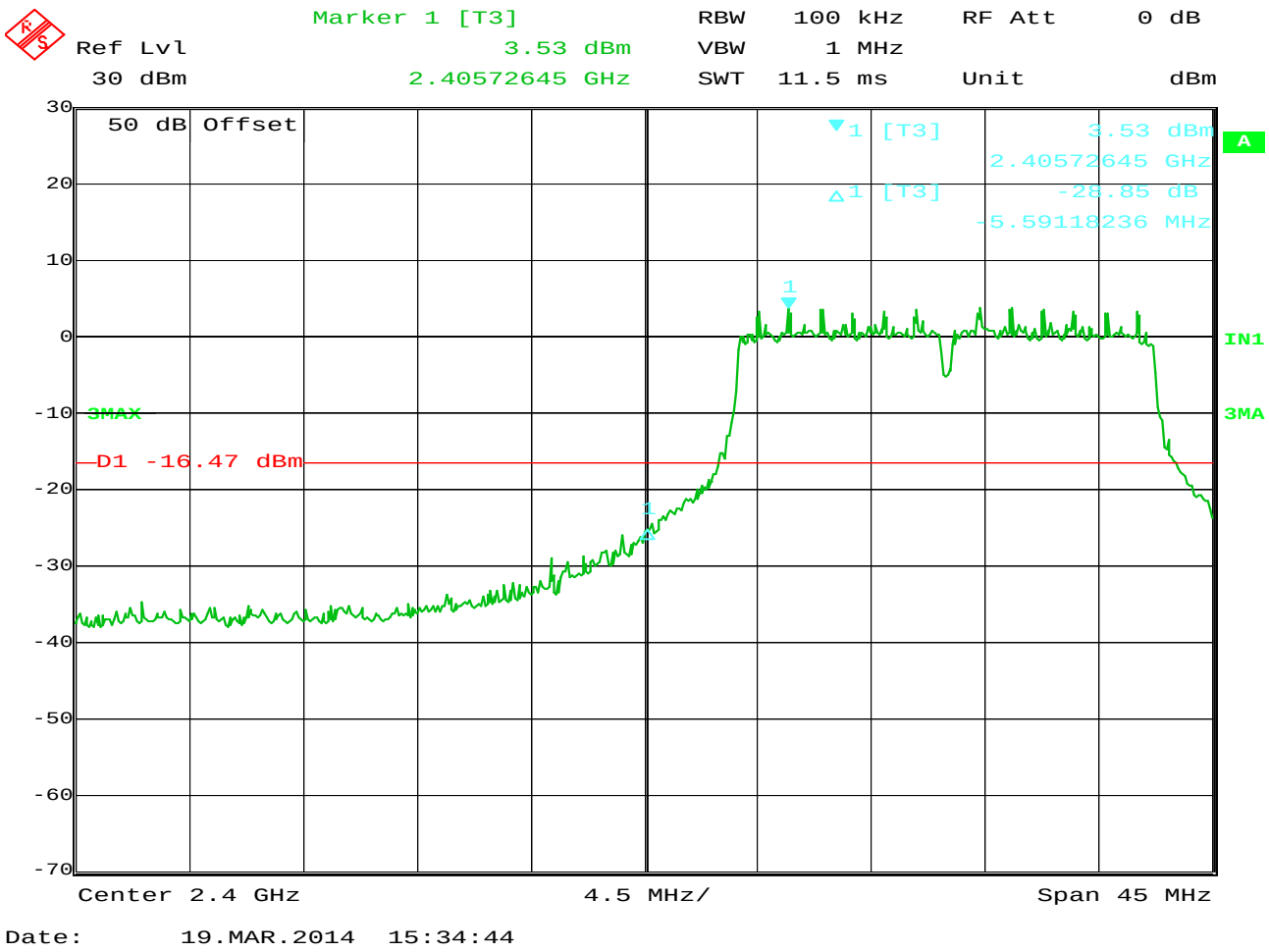
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	12MB/s
NOTES	:	

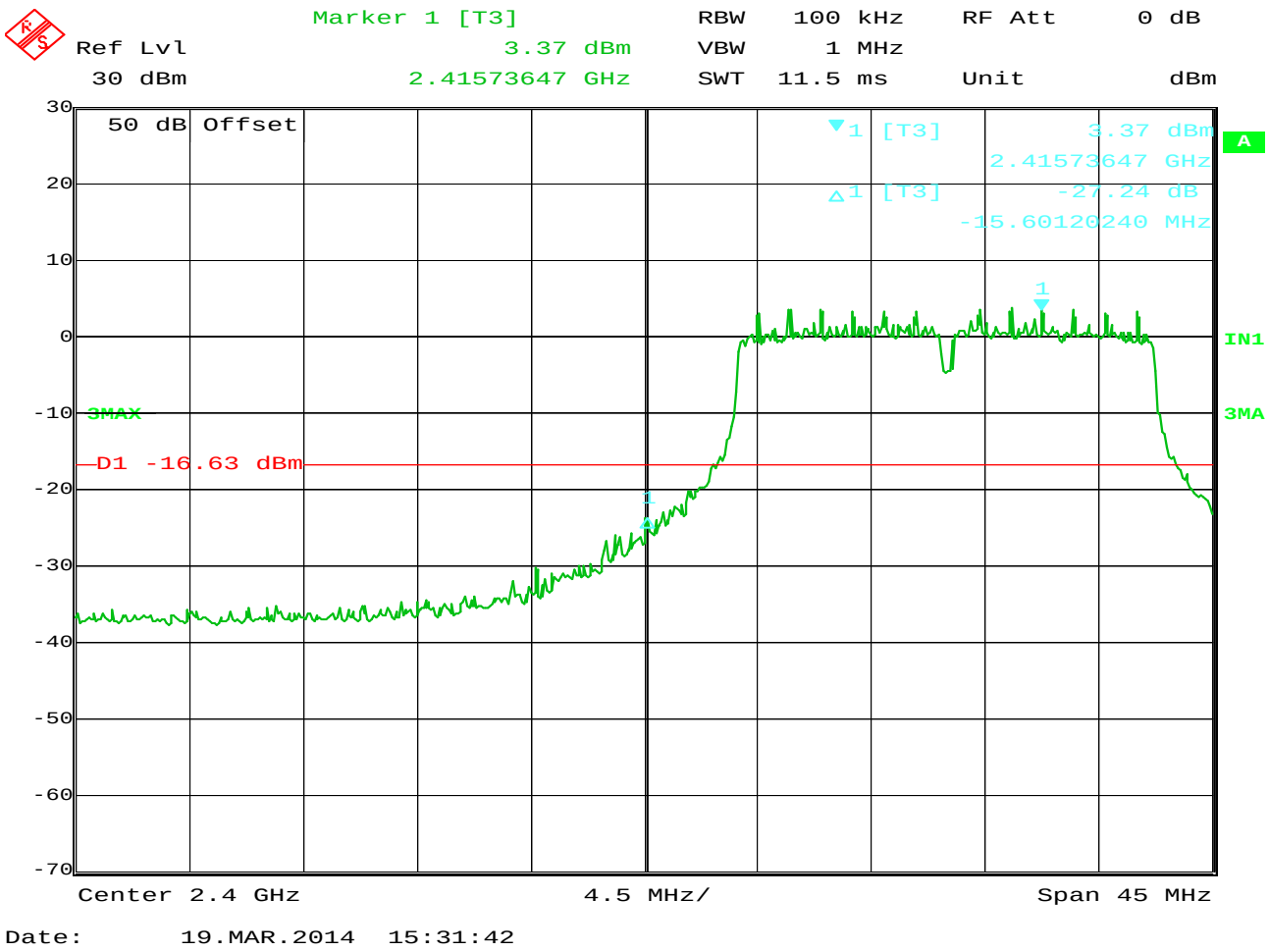
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	18MB/s
NOTES	:	

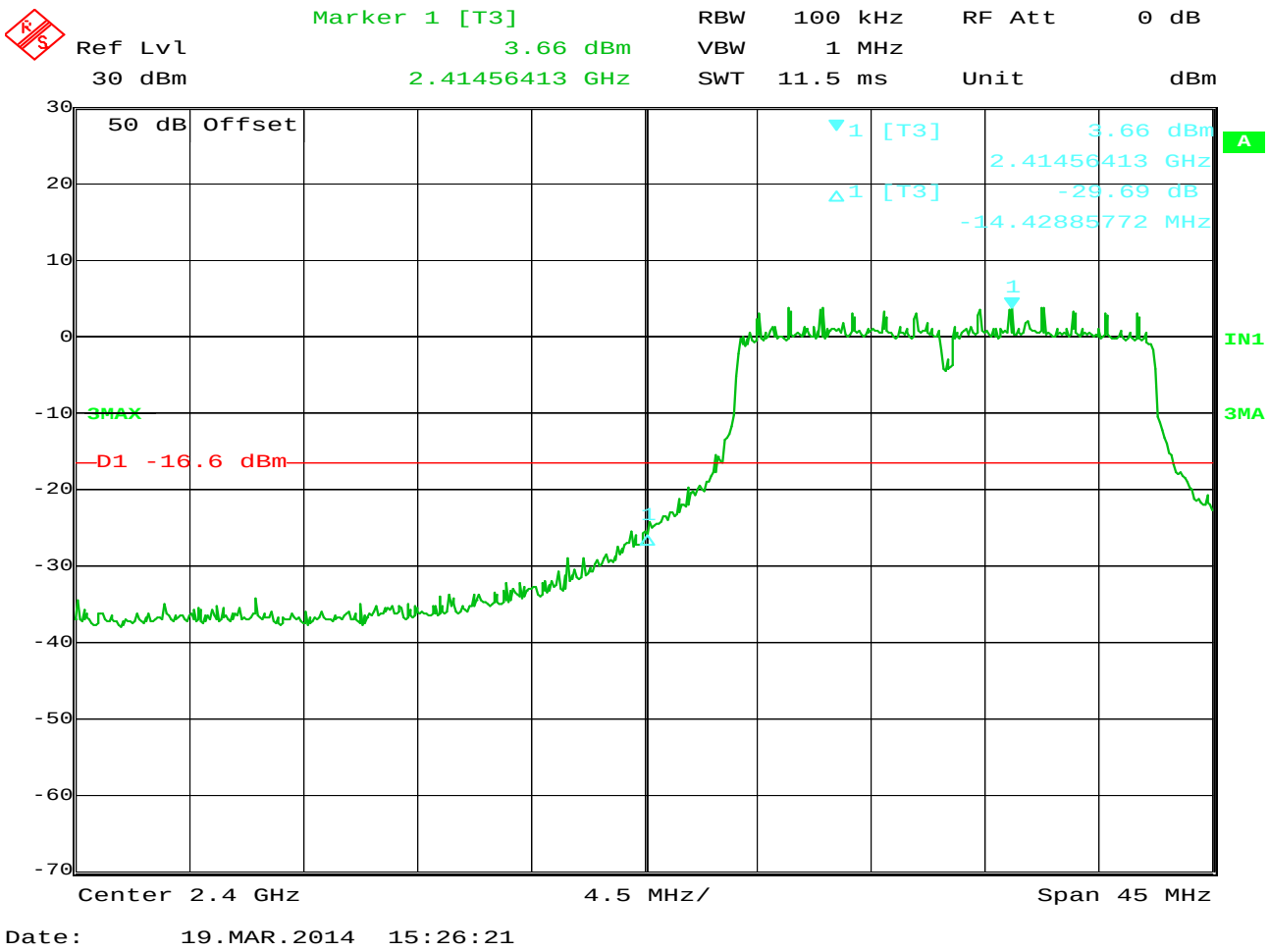
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	24MB/s
NOTES	:	

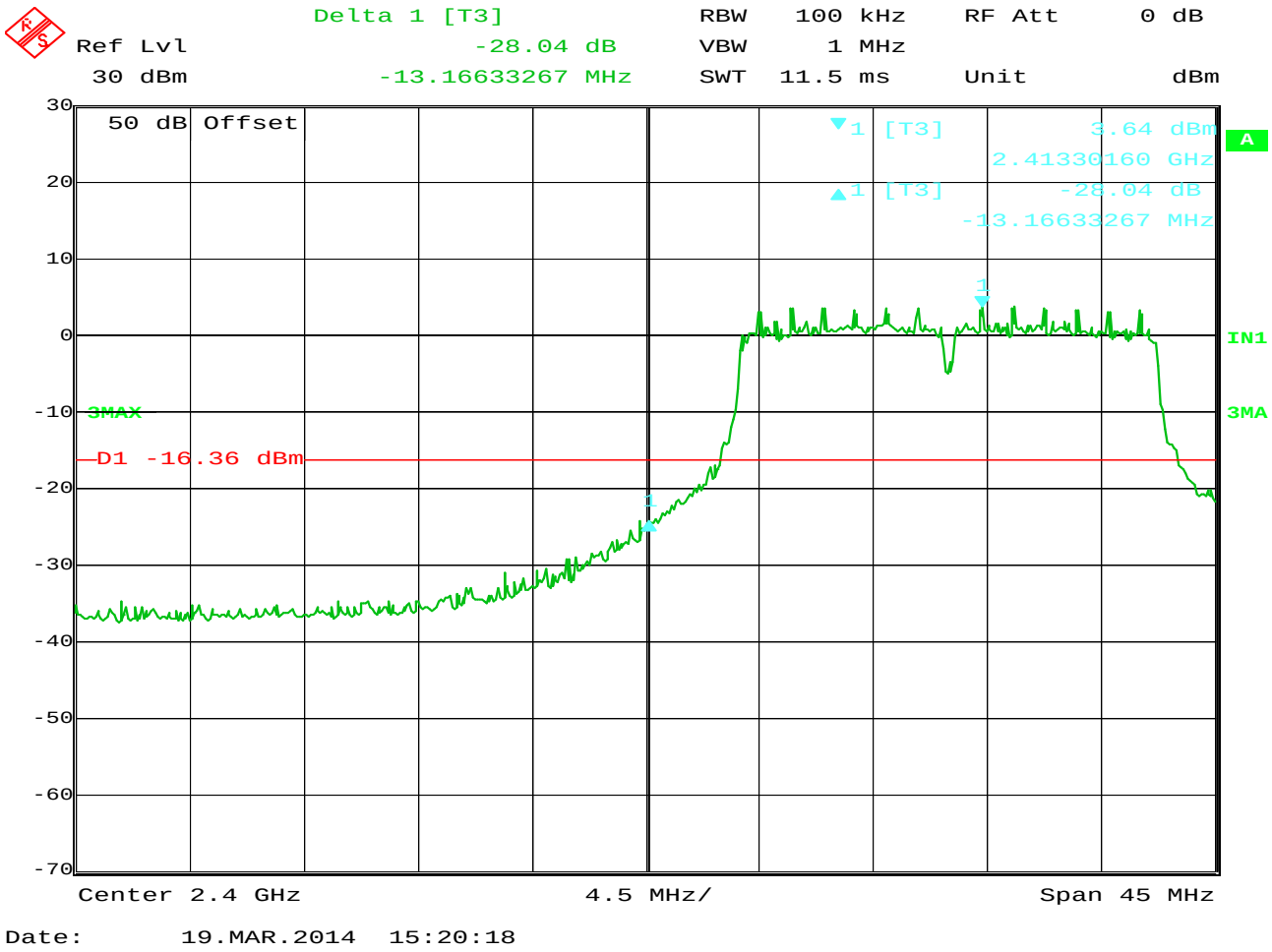
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	36MB/s
NOTES	:	

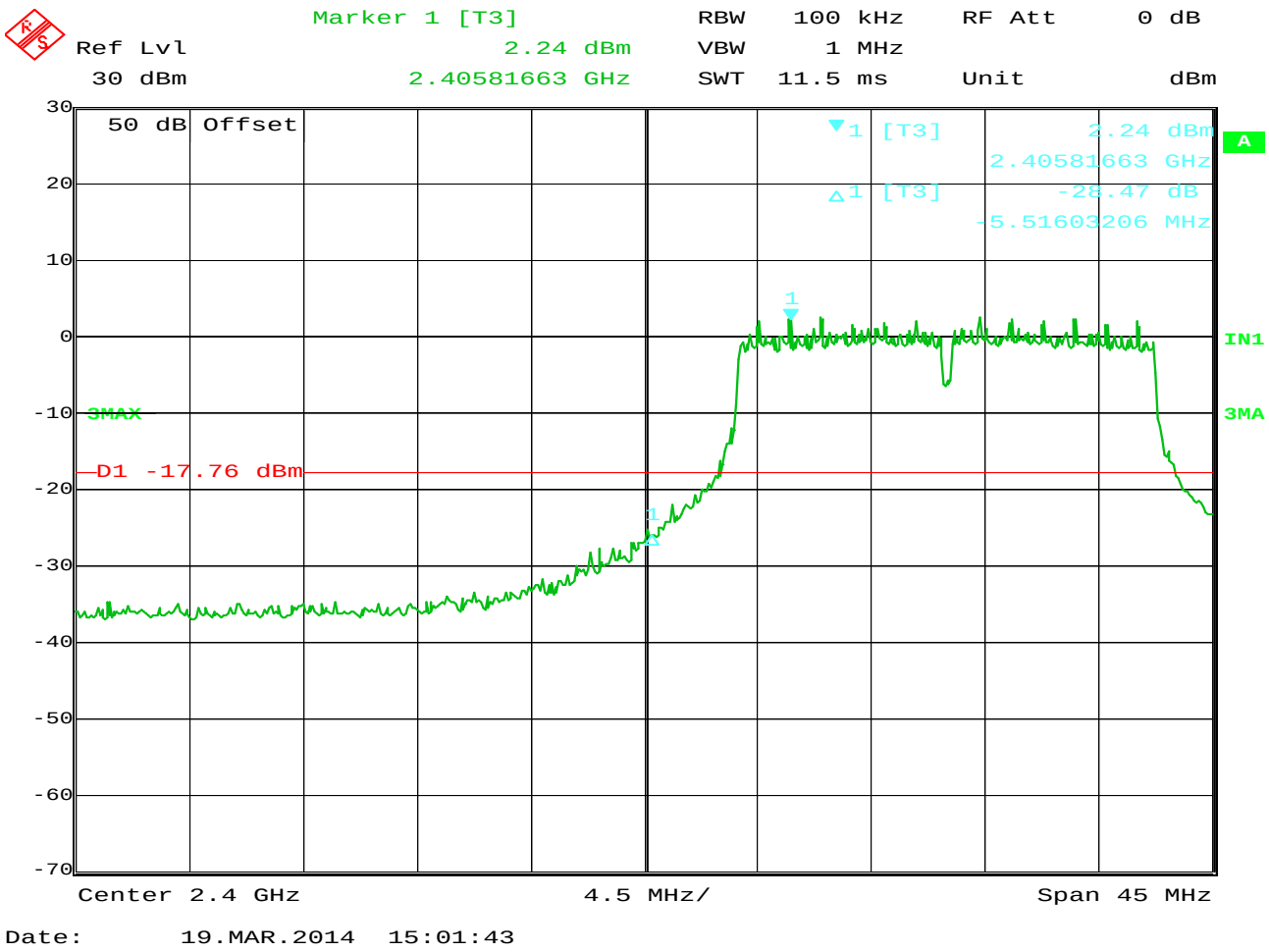
NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	48MB/s
NOTES	:	

NOTES



FCC 15.247 Bandedge Compliance

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	54MB/s
NOTES	:	

NOTES

Manufacturer : Caterpillar Underground Mining
Model No. : WLg-ABOARD/N/CAT
Specification : FCC-15.247 Bandedge compliance (radiated)
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)
2483.50	H	19.3	Ambient	2.7	32.4	0.0	54.3	520.1	5000.0	-19.7
2483.50	V	25.2		2.7	32.4	0.0	60.2	1025.8	5000.0	-13.8

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)
2483.50	H	19.3	Ambient	2.7	32.4	0.0	-29.2	25.2	18.1	500.0	-28.8
2483.50	V	25.2		2.7	32.4	0.0	-29.2	31.1	35.8	500.0	-22.9

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 Bandedge compliance (radiated)
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2462MHz (Ch. 11), 802.11g, 54Mb/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)
2483.50	H	24.1		2.7	32.4	0.0	59.1	903.8	5000.0	-14.9
2483.50	V	24.3		2.7	32.4	0.0	59.3	924.8	5000.0	-14.7

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), 802.11g, 54Mb/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)
2483.50	H	24.1		2.7	32.4	0.0	-51.9	7.2	2.3	500.0	-46.8
2483.50	V	24.3		2.7	32.4	0.0	-51.9	7.4	2.3	500.0	-46.6

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 Bandedge compliance (radiated)
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2462MHz (Ch. 11), 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)
2483.50	H	25.0	Ambient	2.7	32.4	0.0	60.0	1002.4	5000.0	-14.0
2483.50	V	30.3		2.7	32.4	0.0	65.3	1845.3	5000.0	-8.7

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 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)
2483.50	H	25.0	Ambient	2.7	32.4	0.0	-29.2	30.9	35.0	500.0	-23.1
2483.50	V	30.3		2.7	32.4	0.0	-29.2	36.2	64.4	500.0	-17.8

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 Bandedge compliance (radiated)
Date : March 10, 2014 through April 1, 2014
Mode : Tx @ 2462MHz (Ch. 11), 802.11g, 54Mb/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)
2483.50	H	24.9		2.7	32.4	0.0	59.9	991.0	5000.0	-14.1
2483.50	V	36.8		2.7	32.4	0.0	71.8	3899.9	5000.0	-2.2

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

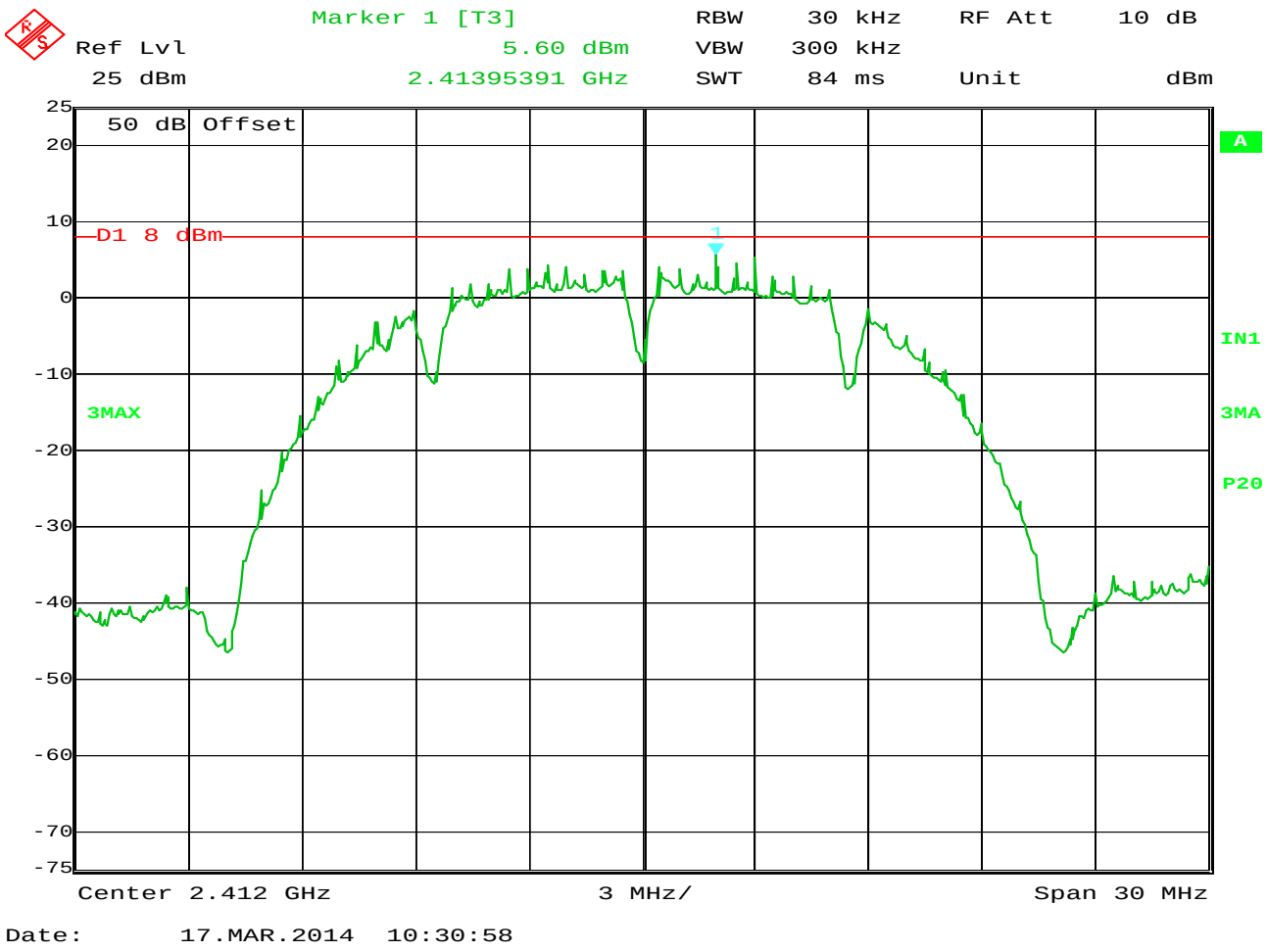
Peak Total uV/m = 10^((Peak Total (dBuV/m))/20)

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), 802.11g, 54Mb/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)
2483.50	H	24.9		2.7	32.4	0.0	-51.9	8.0	2.5	500.0	-46.0
2483.50	V	38.4		2.7	32.4	0.0	-51.9	21.5	11.9	500.0	-32.5

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

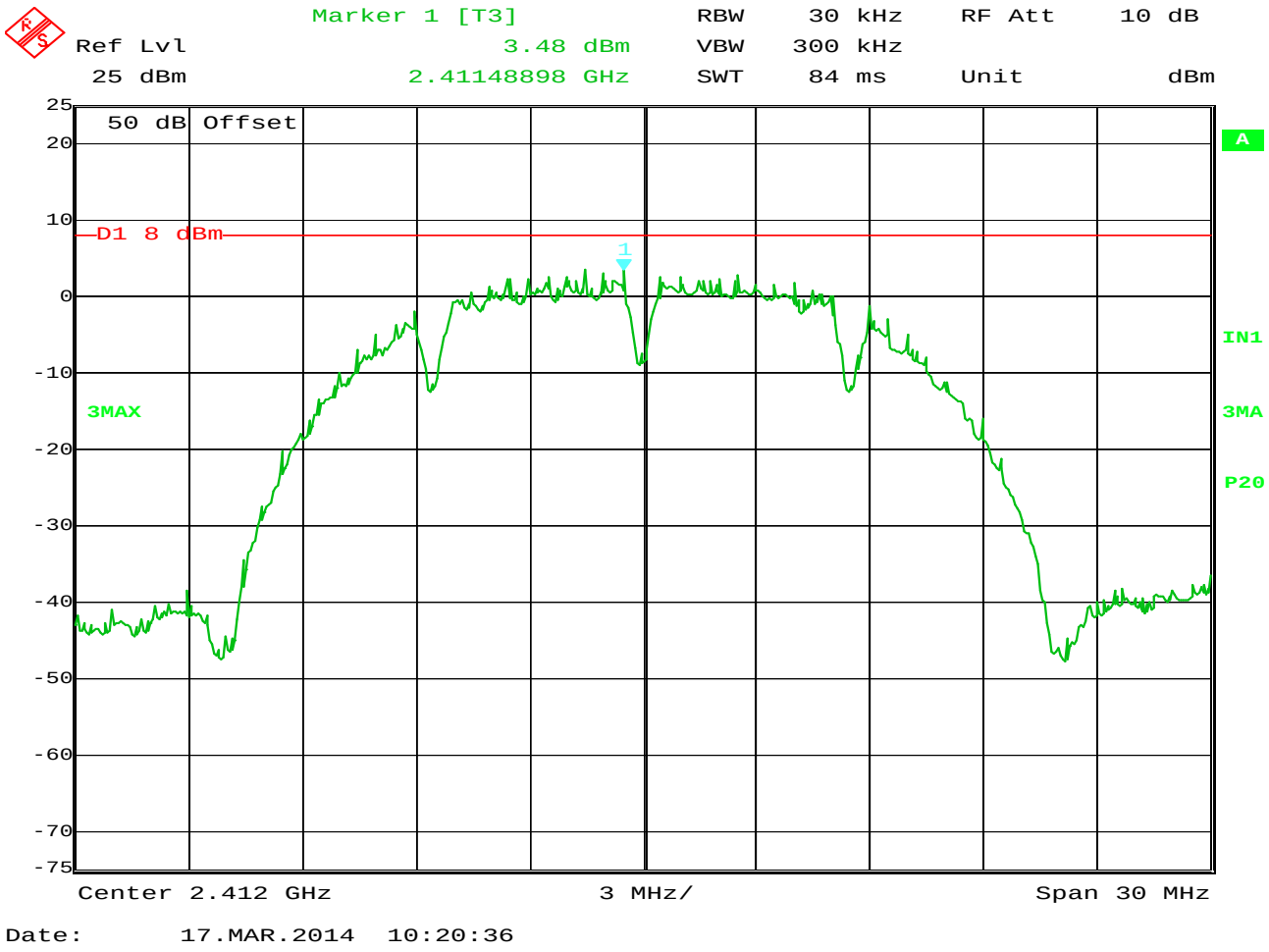
Average Total uV/m = 10^((Average Total (dBuV/m))/20)



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	1MB/s
NOTES	:	

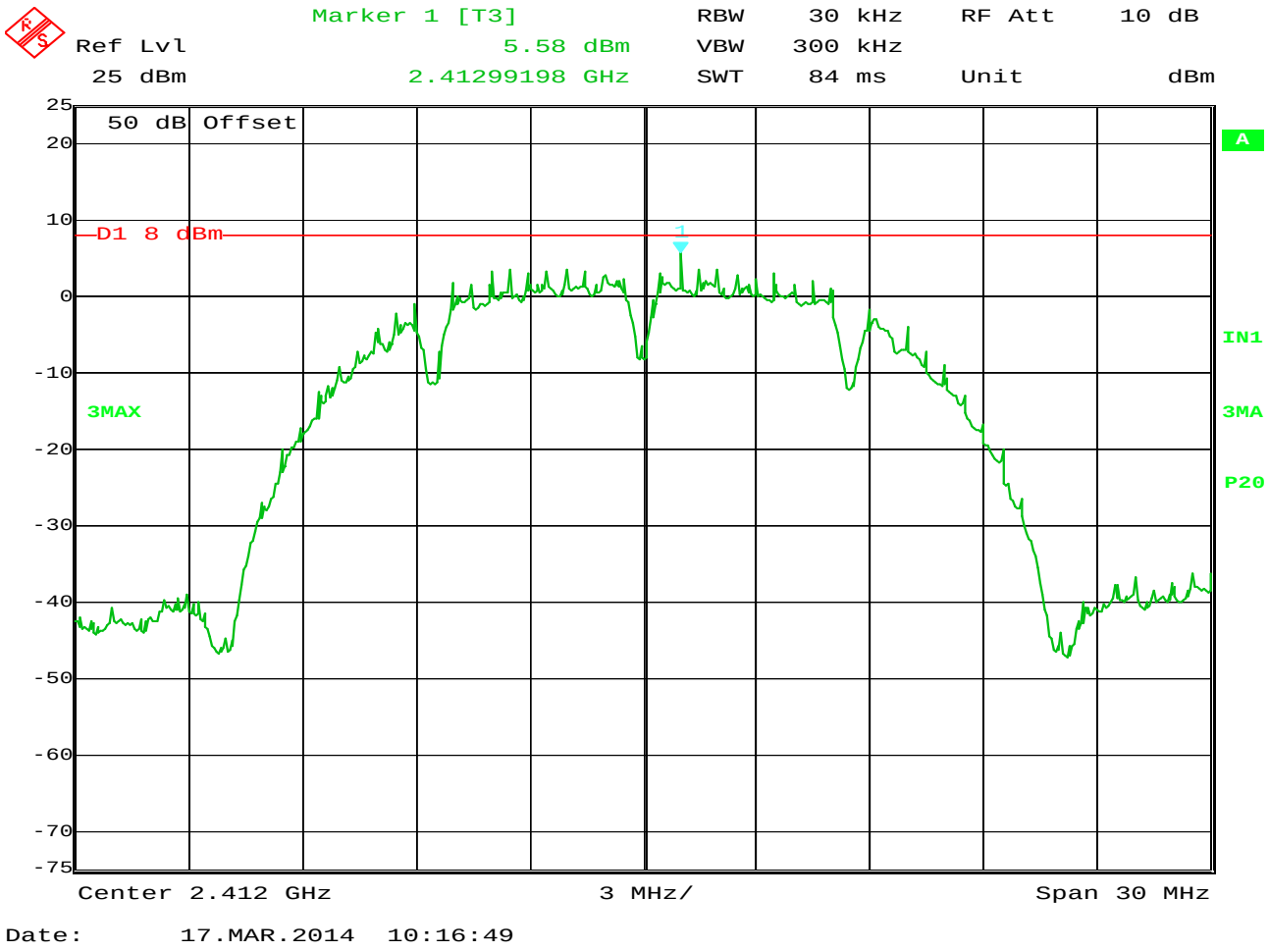
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	2MB/s
NOTES	:	

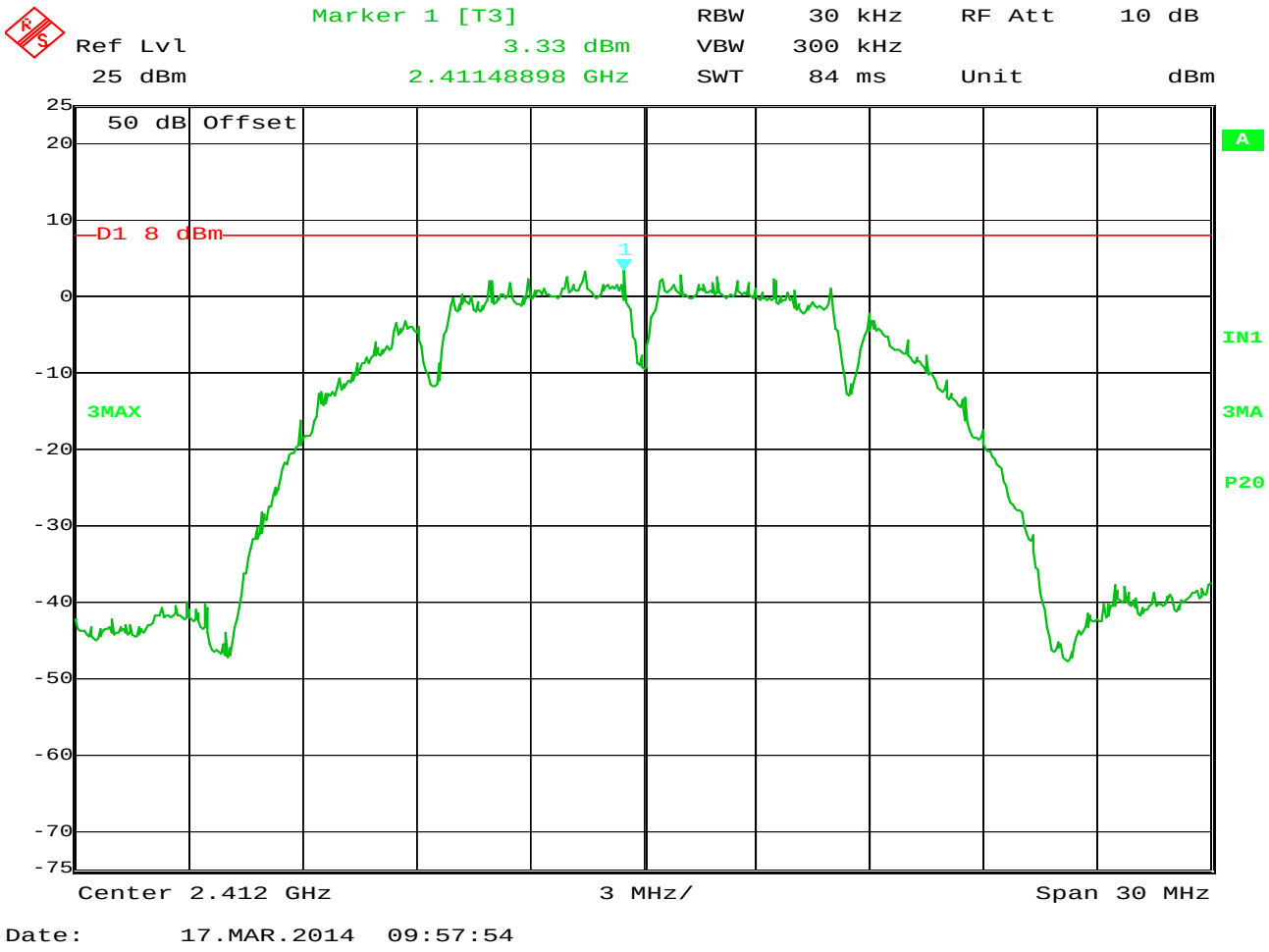
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	5.5MB/s
NOTES	:	

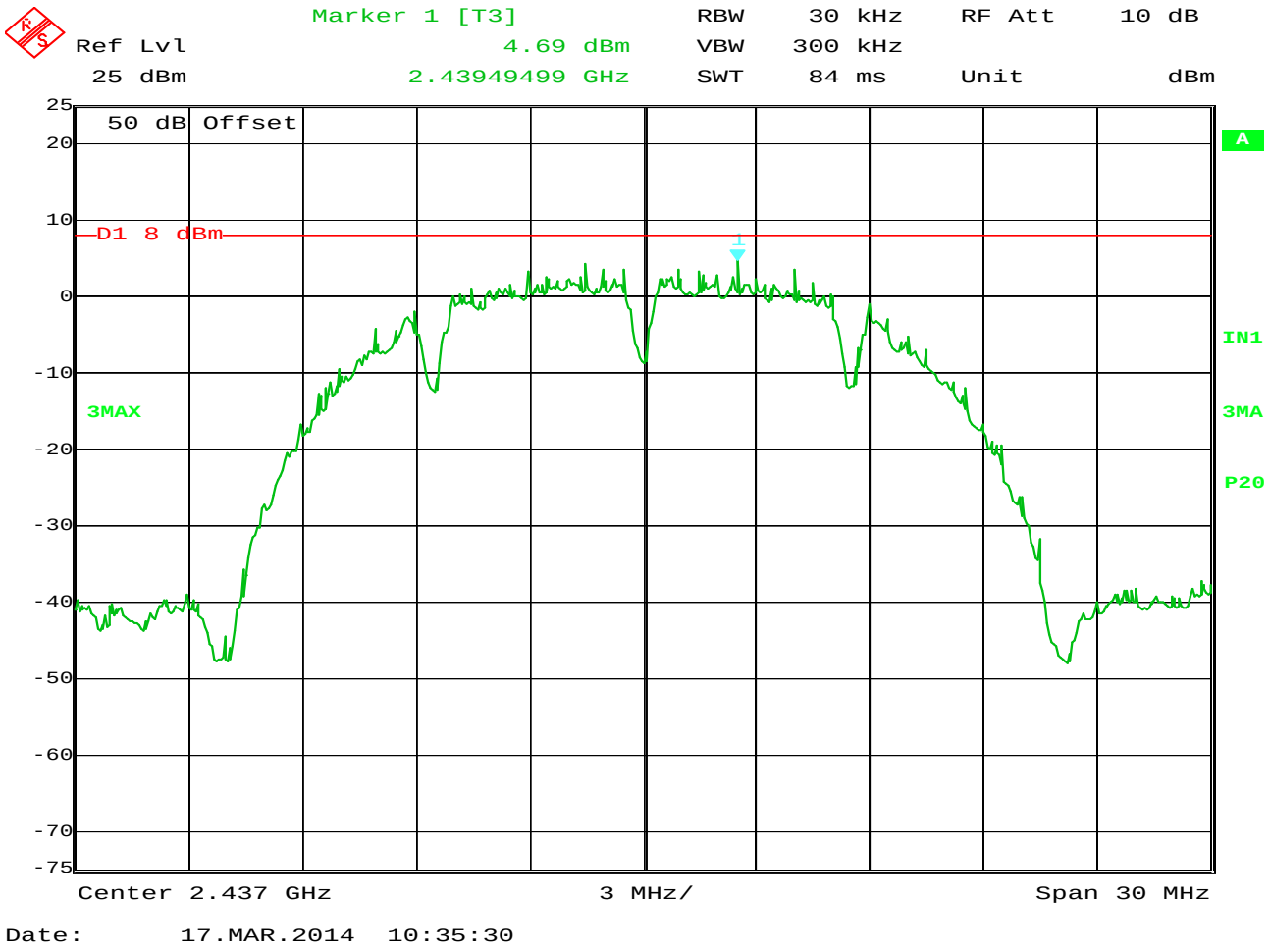
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 b
DATA RATE	:	11MB/s
NOTES	:	

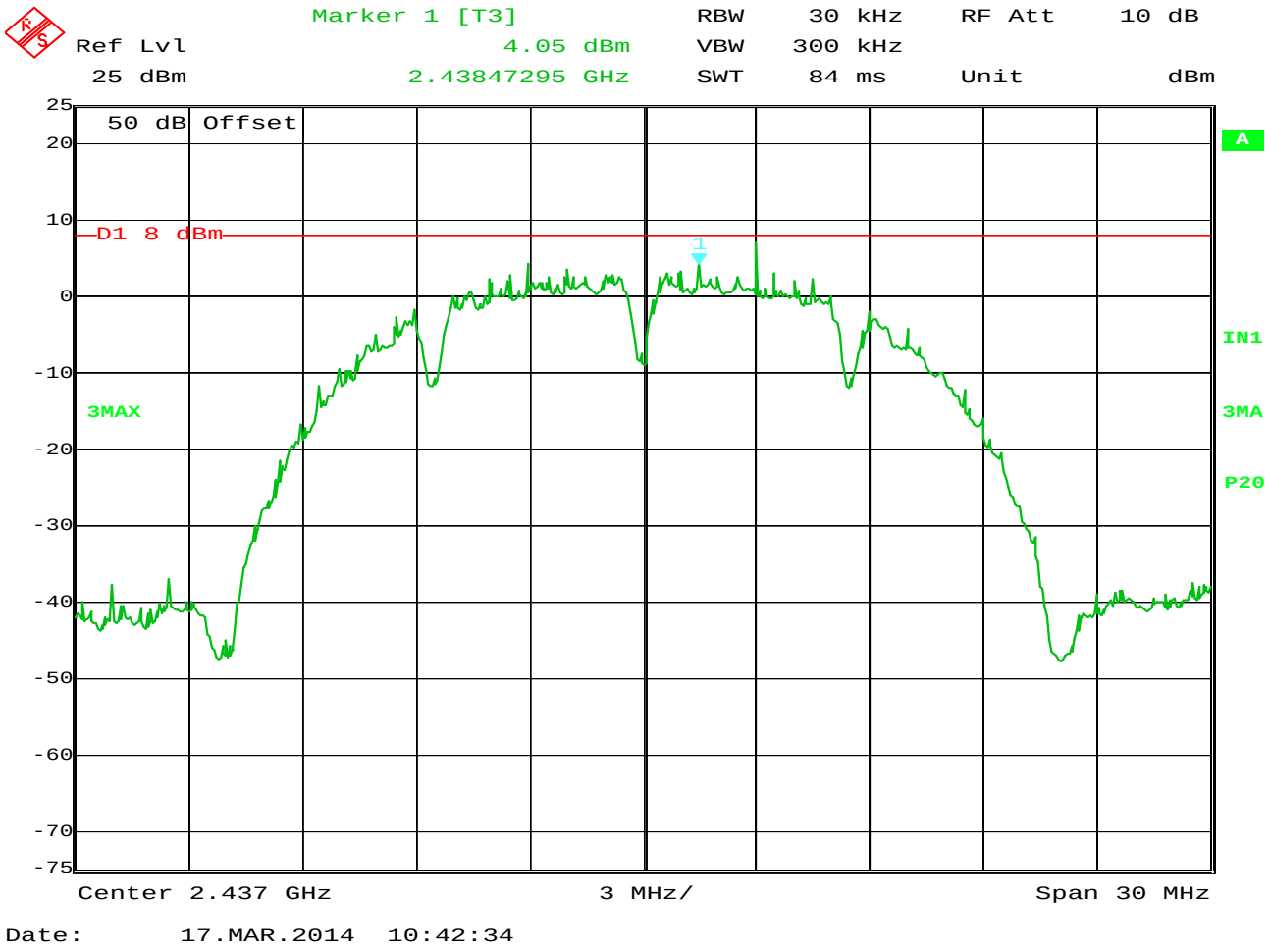
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 b
DATA RATE	:	1MB/s
NOTES	:	

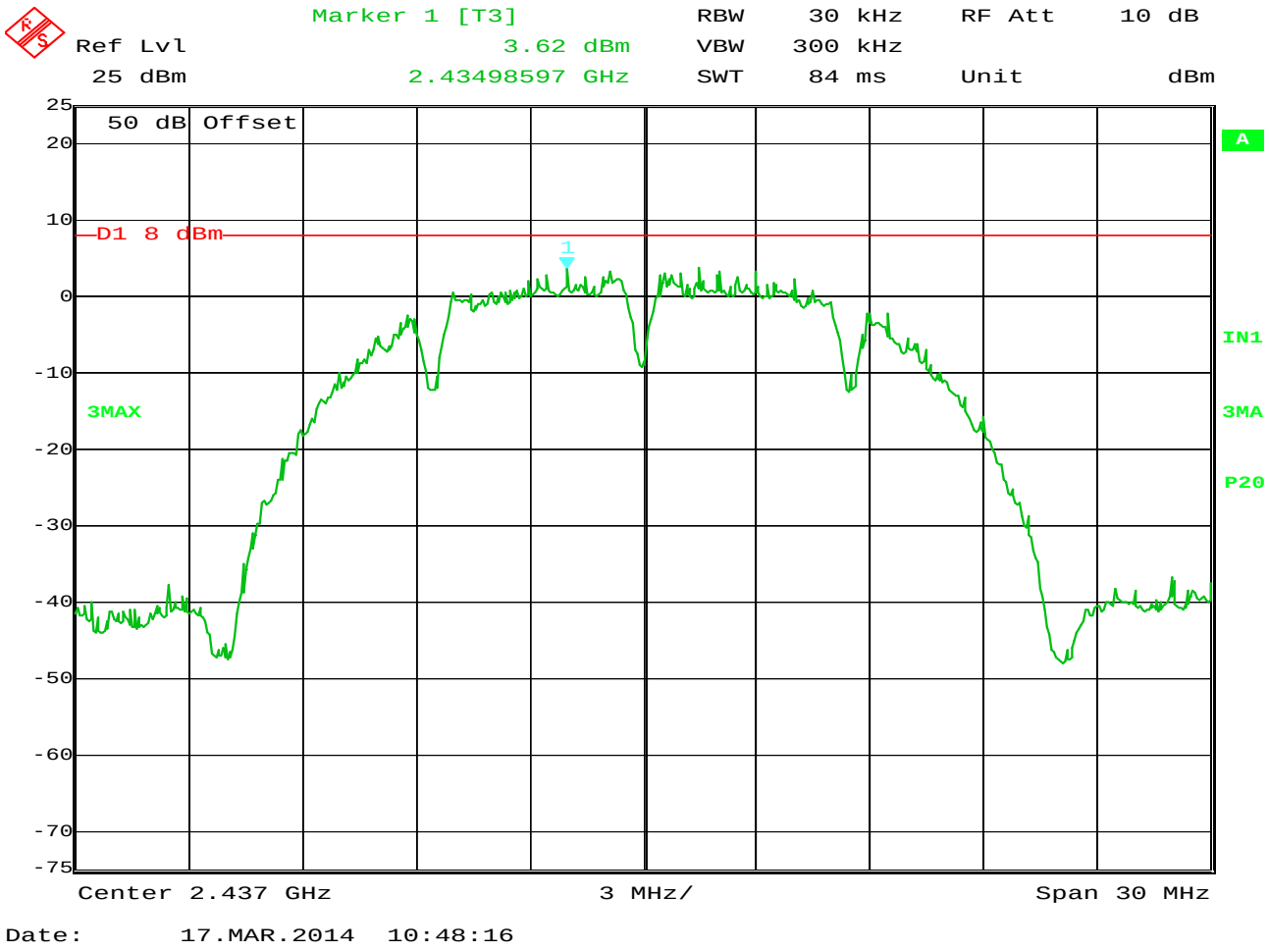
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 b
DATA RATE	:	2MB/s
NOTES	:	

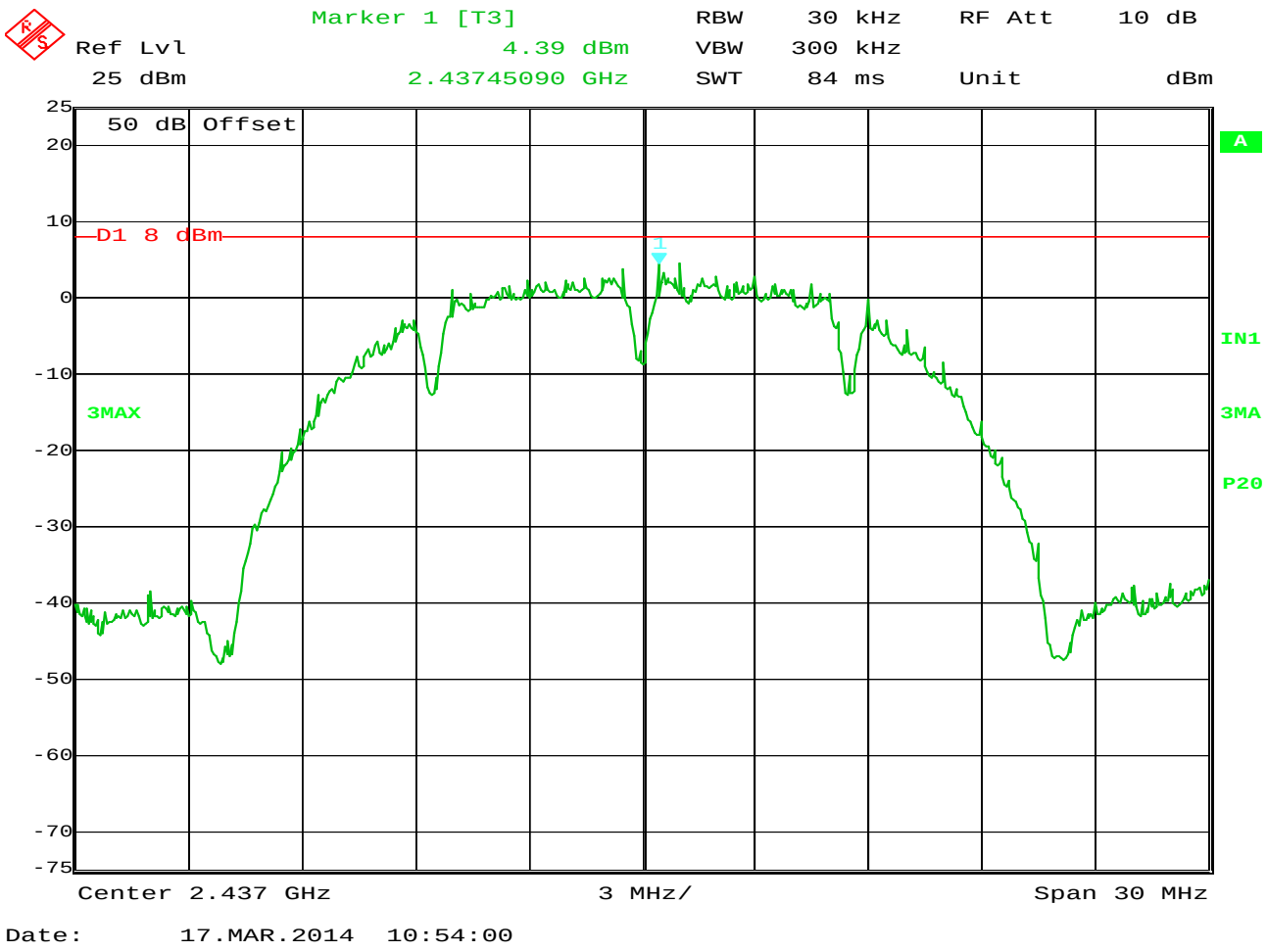
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 b
DATA RATE	:	5.5MB/s
NOTES	:	

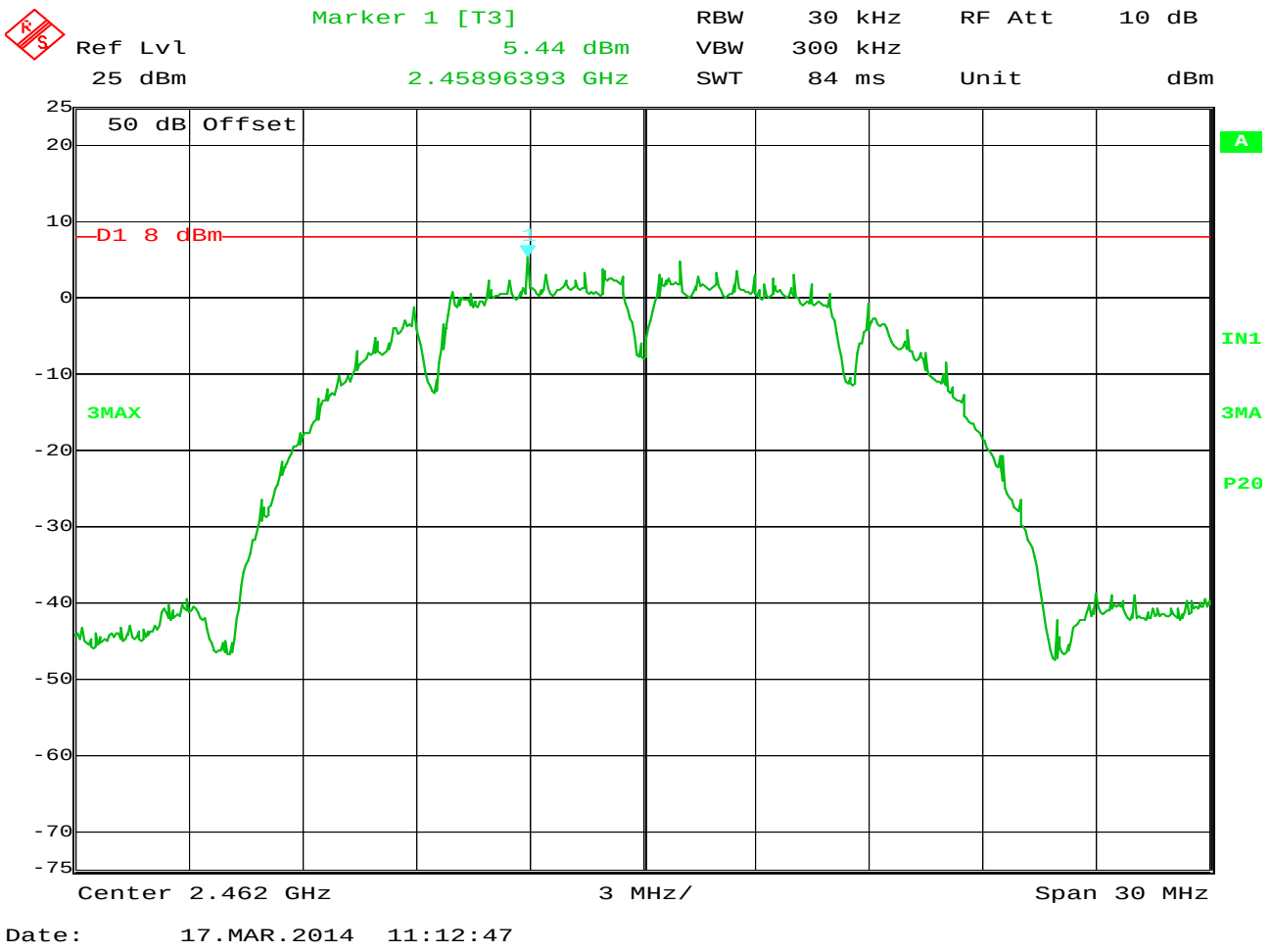
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	: Caterpillar Underground Mining
MODEL NUMBER	: WLg-ABOARD/N/CAT
SERIAL NUMBER	: 13059009
TEST MODE	: Tx at MID Channel
PROTOCOL	: 802.11 b
DATA RATE	: 11MB/s
NOTES	:

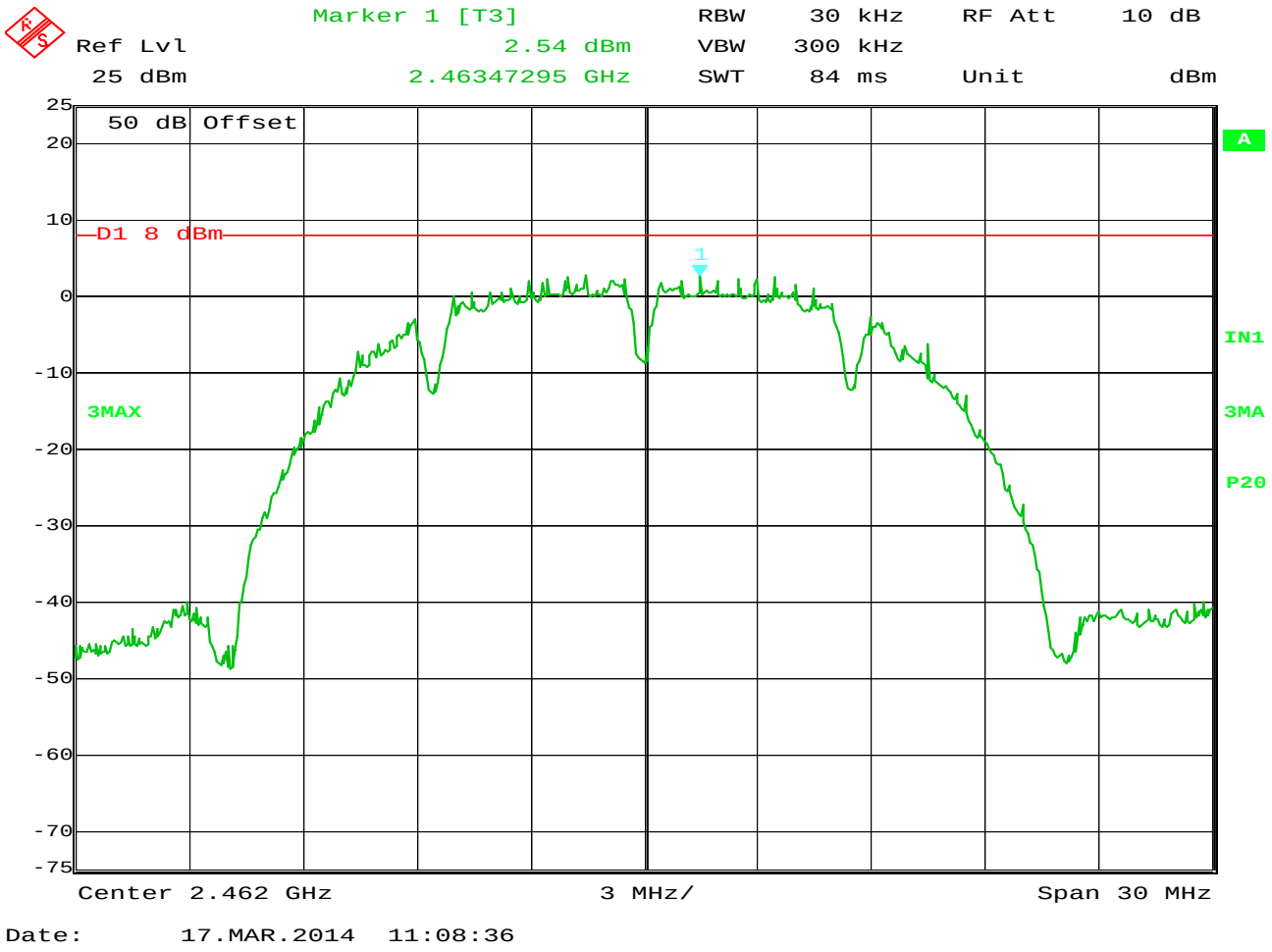
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 b
DATA RATE	:	1MB/s
NOTES	:	

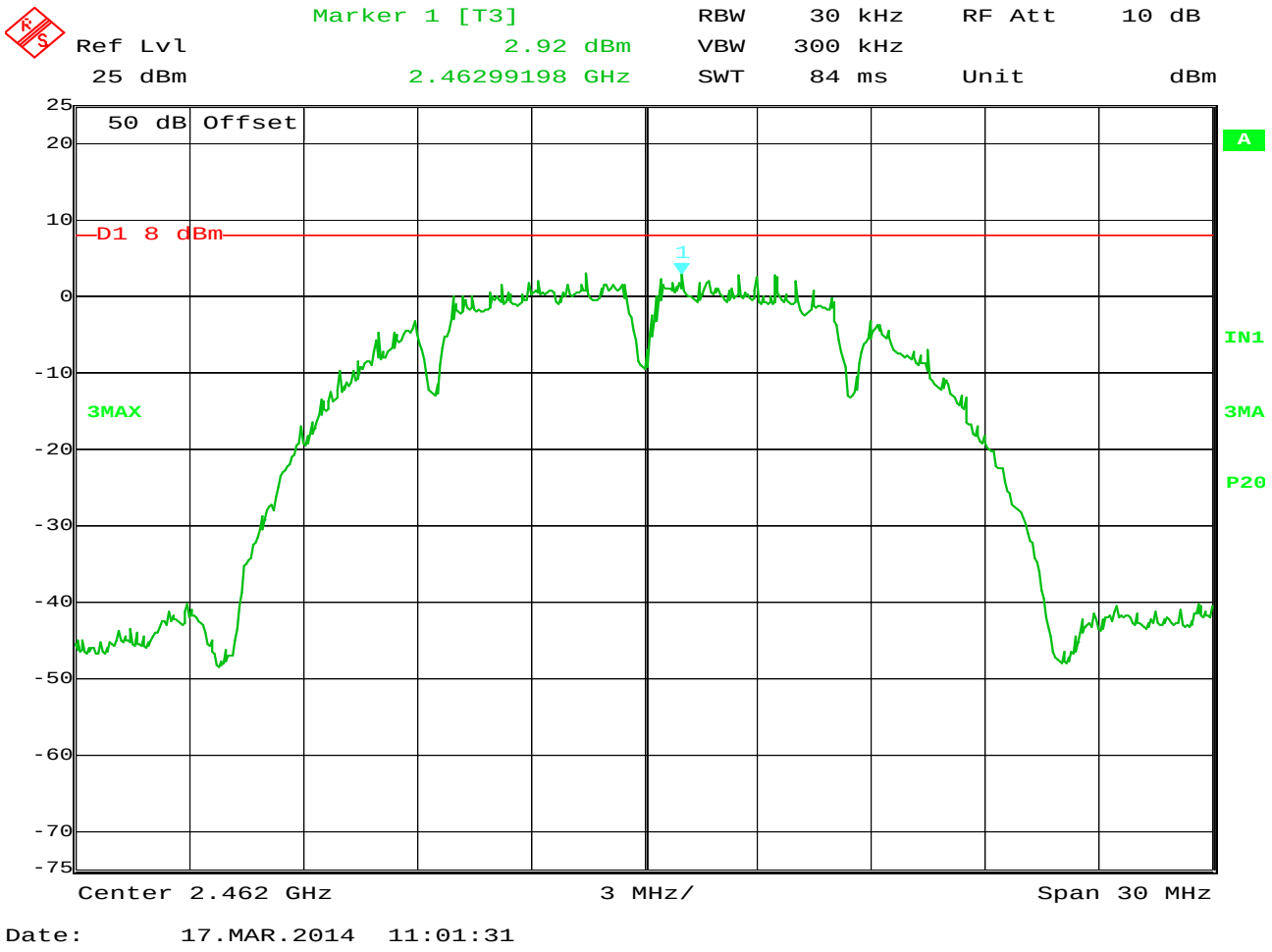
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 b
DATA RATE	:	2MB/s
NOTES	:	

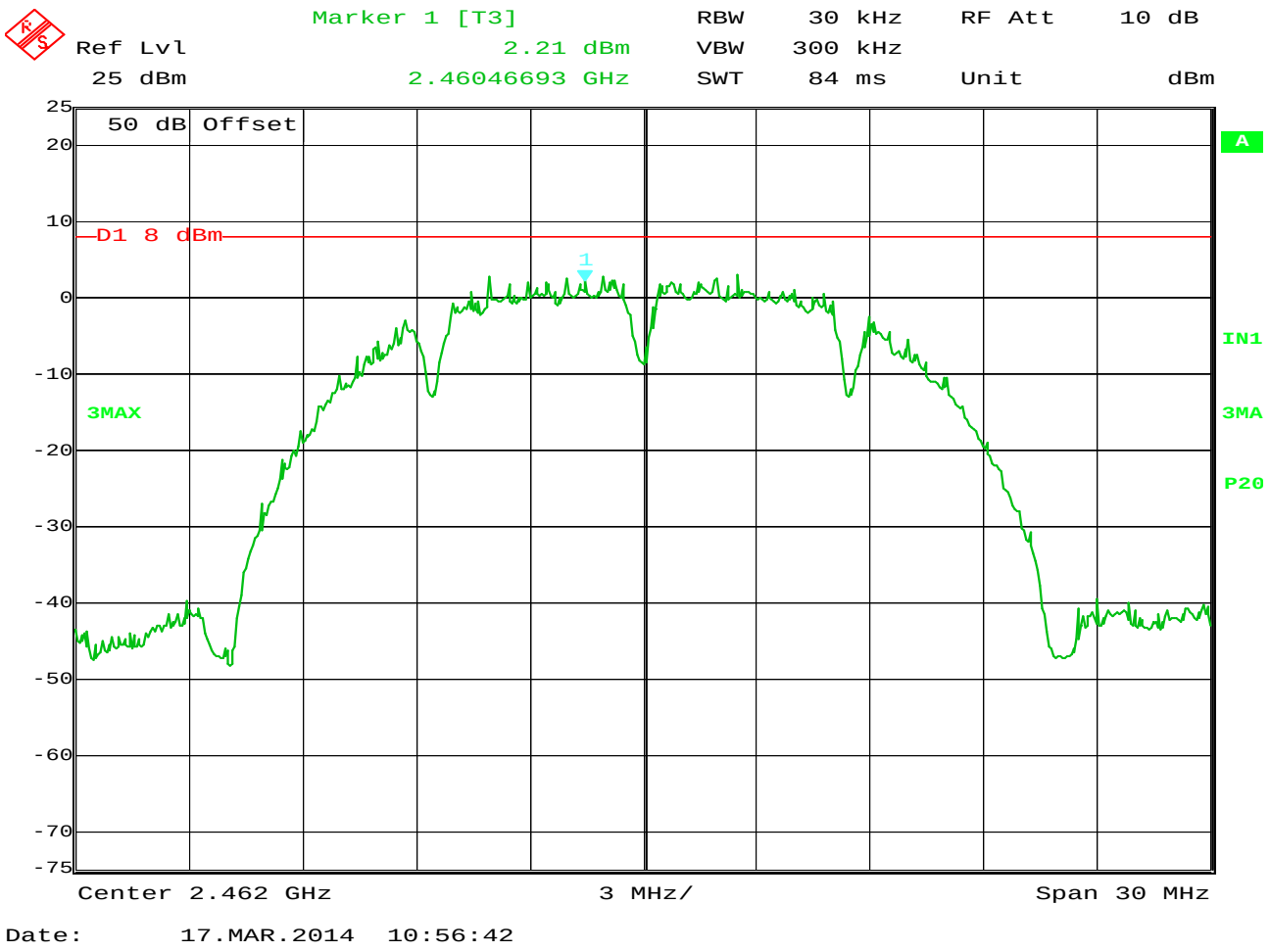
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 b
DATA RATE	:	5.5MB/s
NOTES	:	

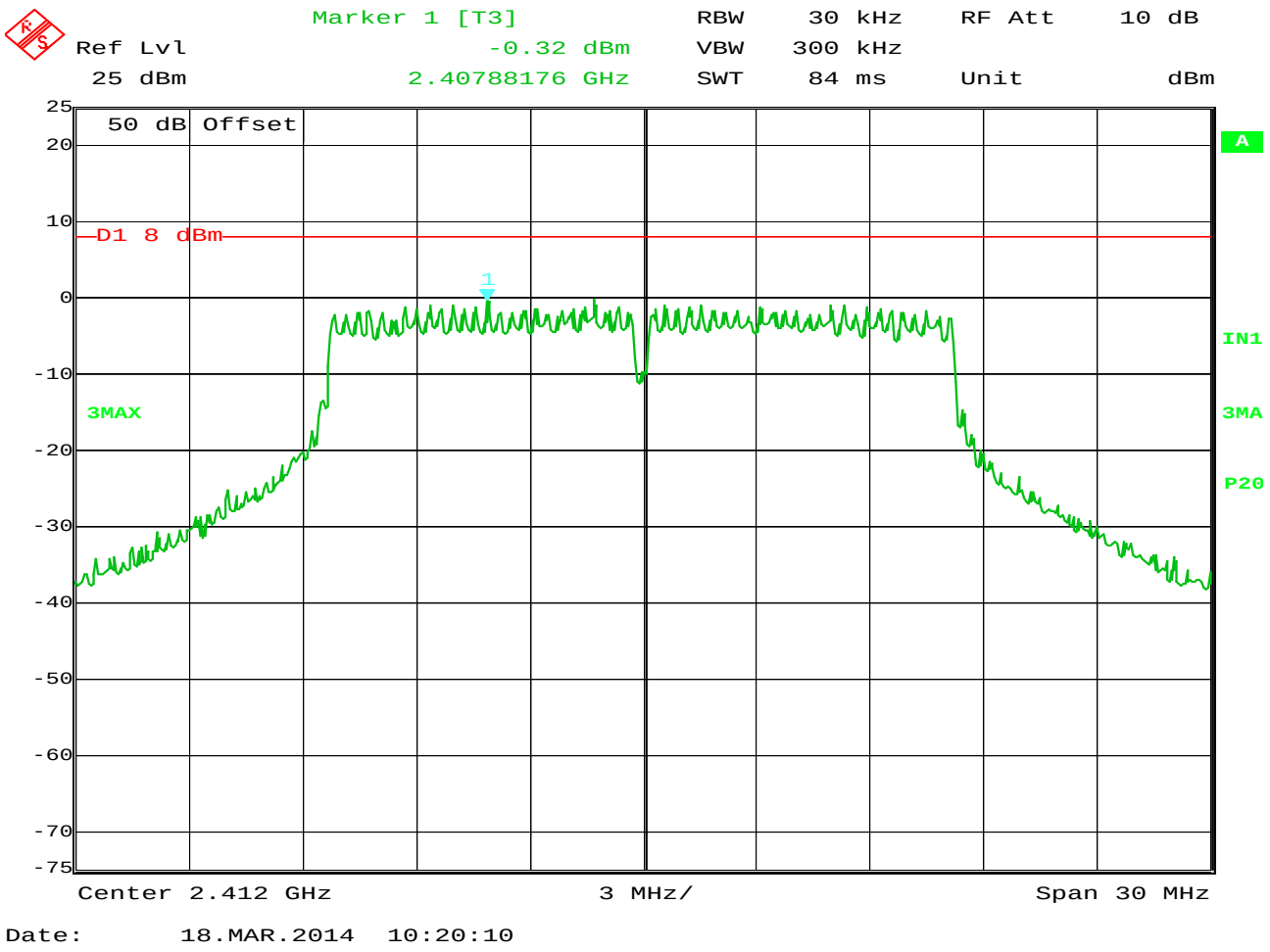
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 b
DATA RATE	:	11MB/s
NOTES	:	

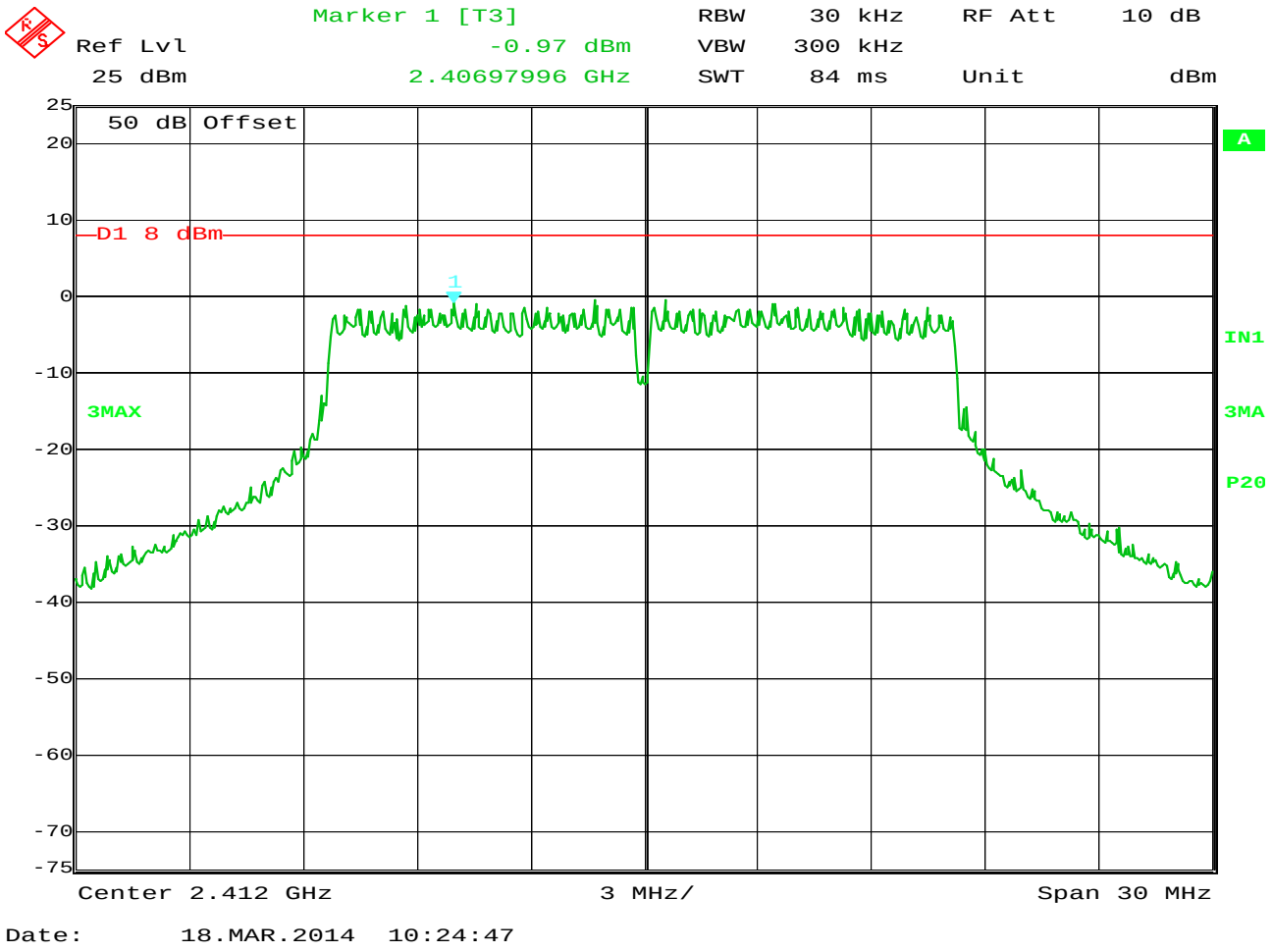
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	6MB/s
NOTES	:	

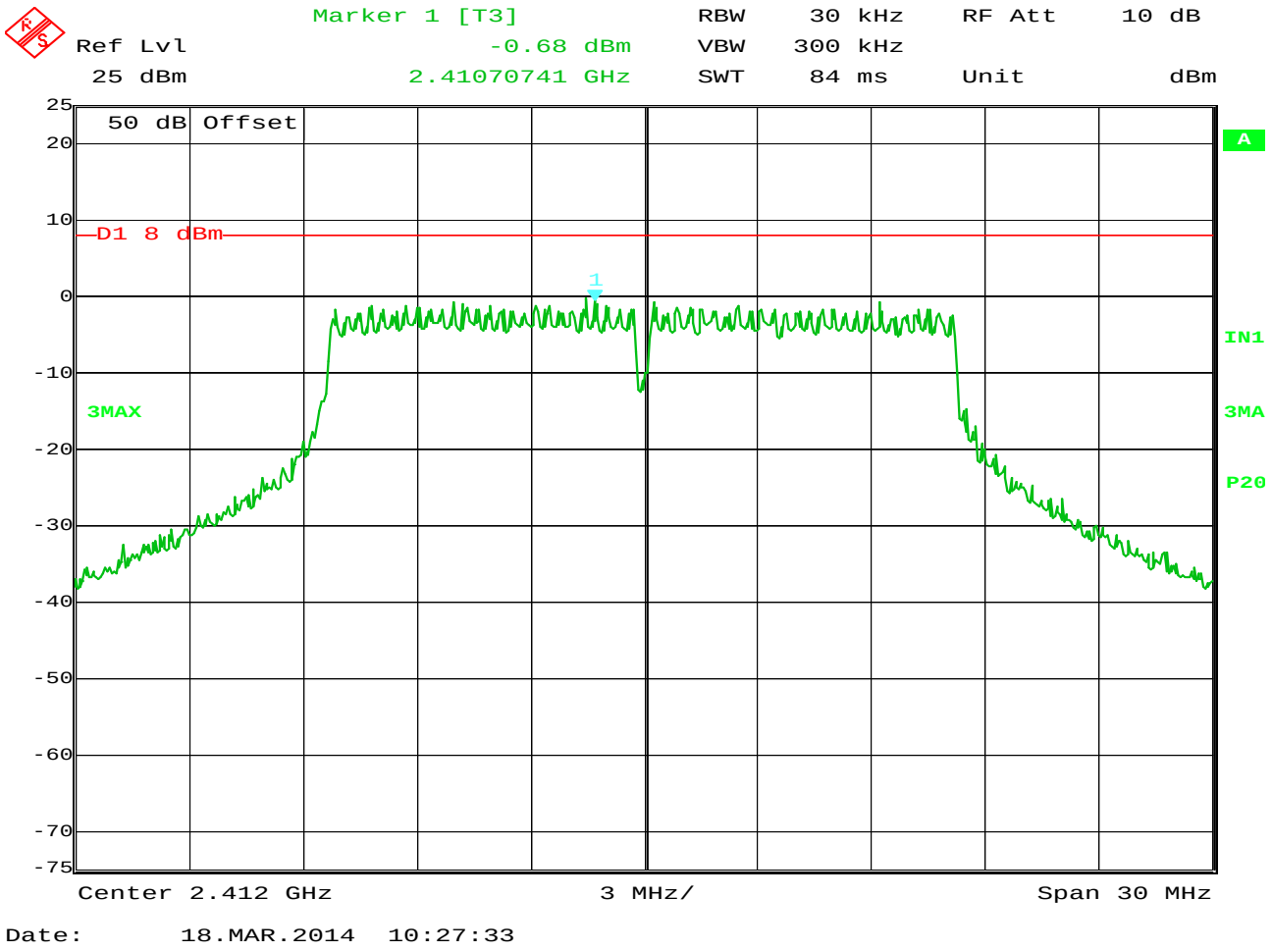
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	9MB/s
NOTES	:	

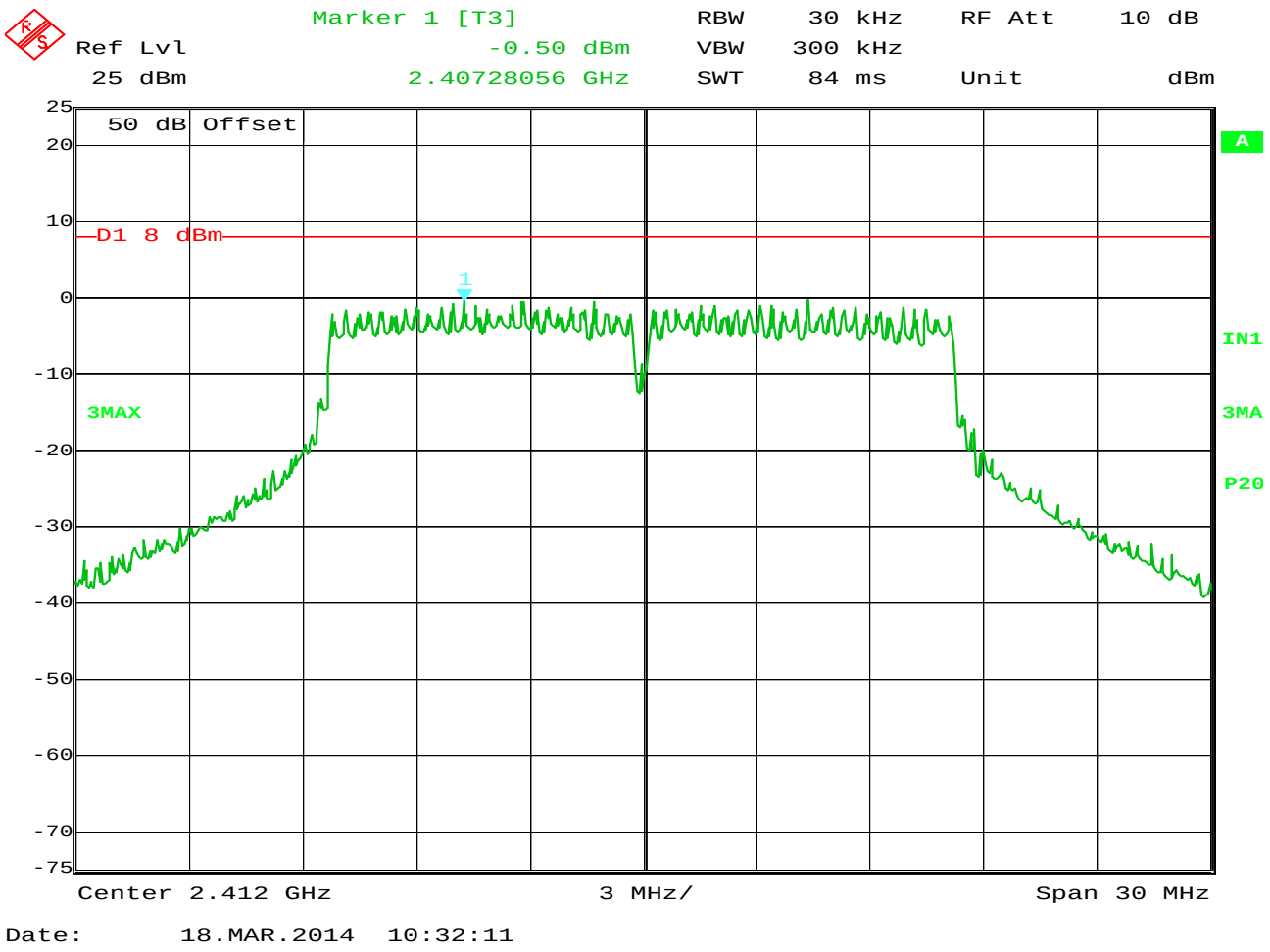
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	12MB/s
NOTES	:	

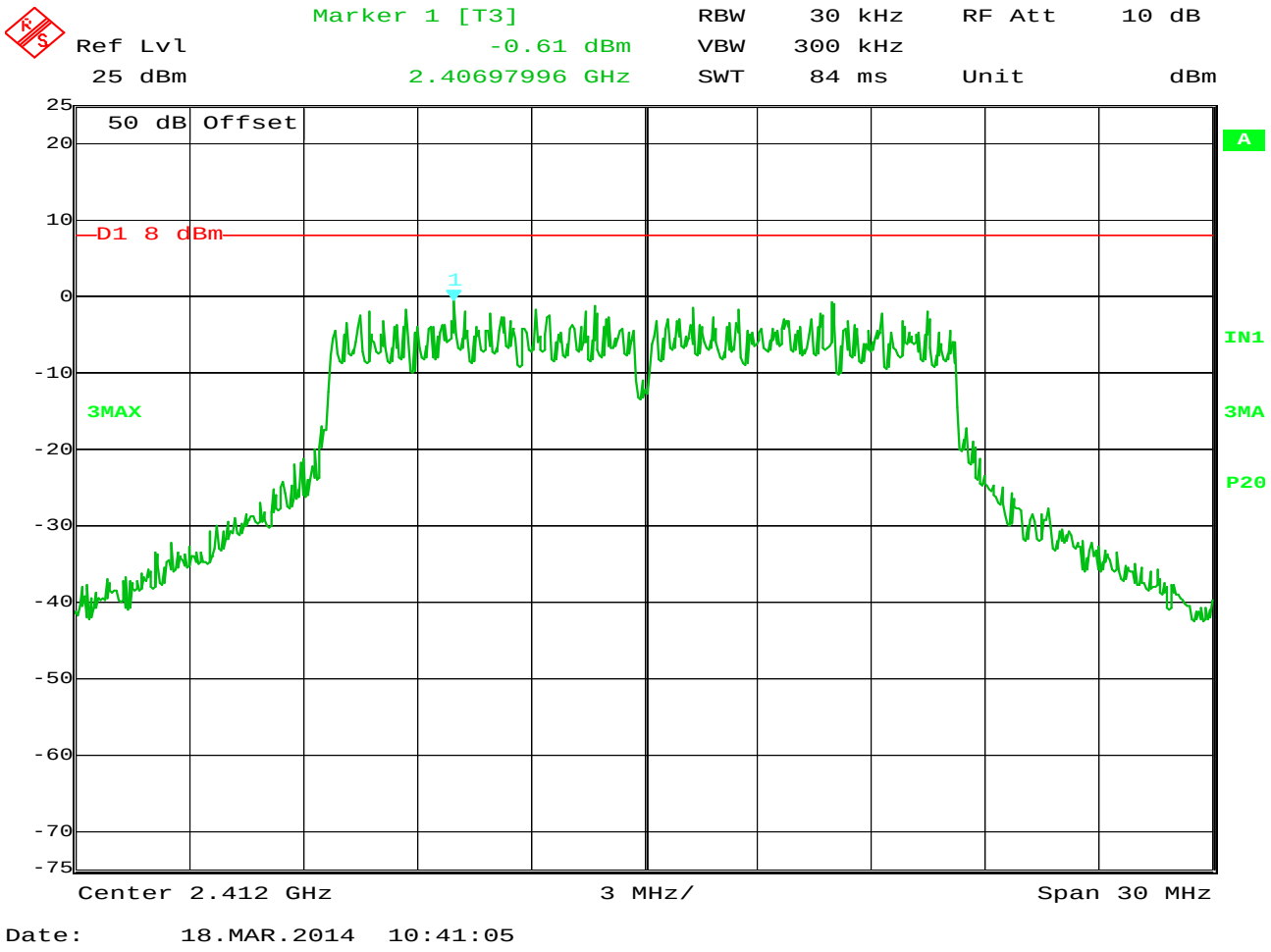
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	18MB/s
NOTES	:	

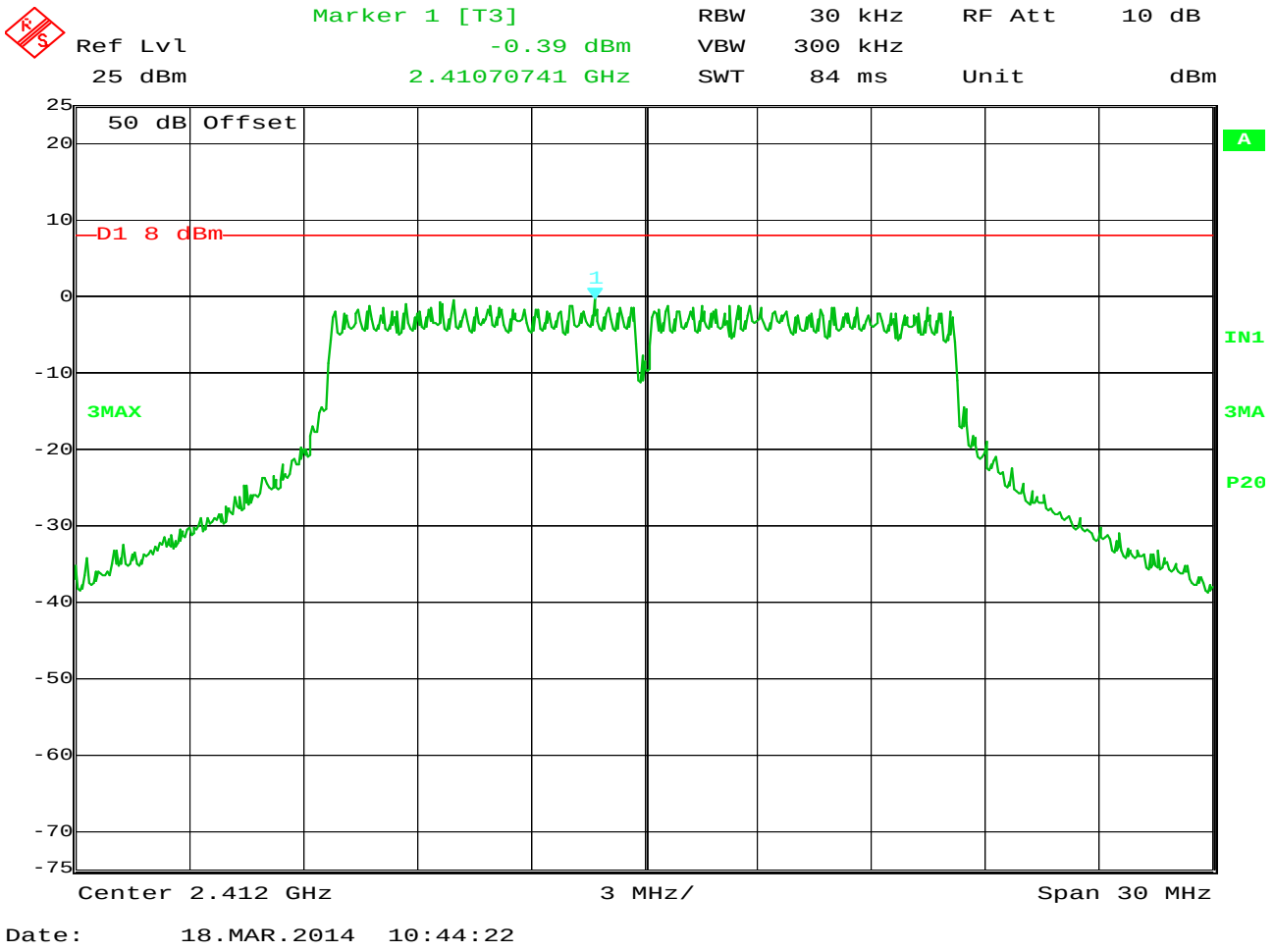
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	24MB/s
NOTES	:	

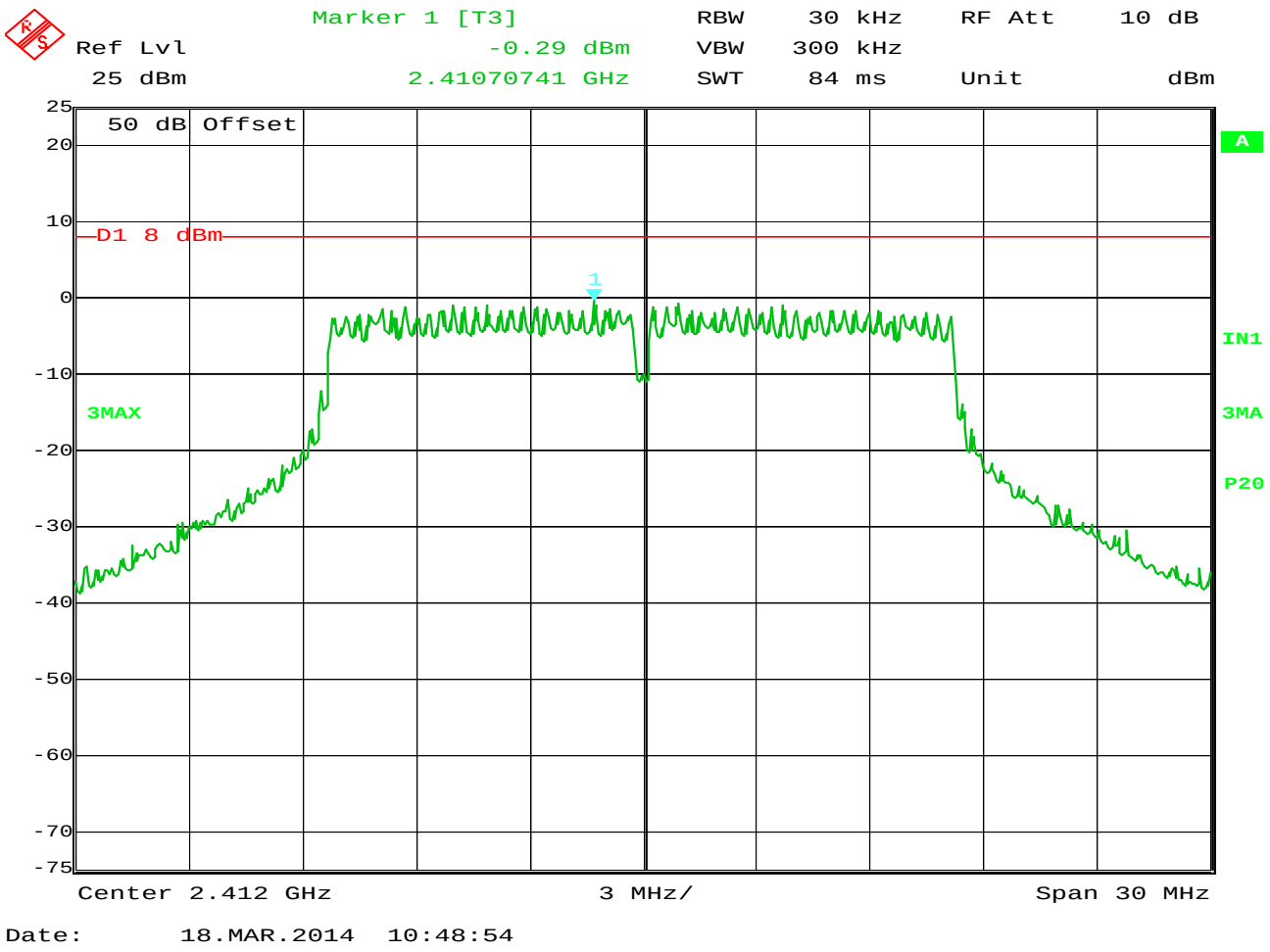
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	36MB/s
NOTES	:	

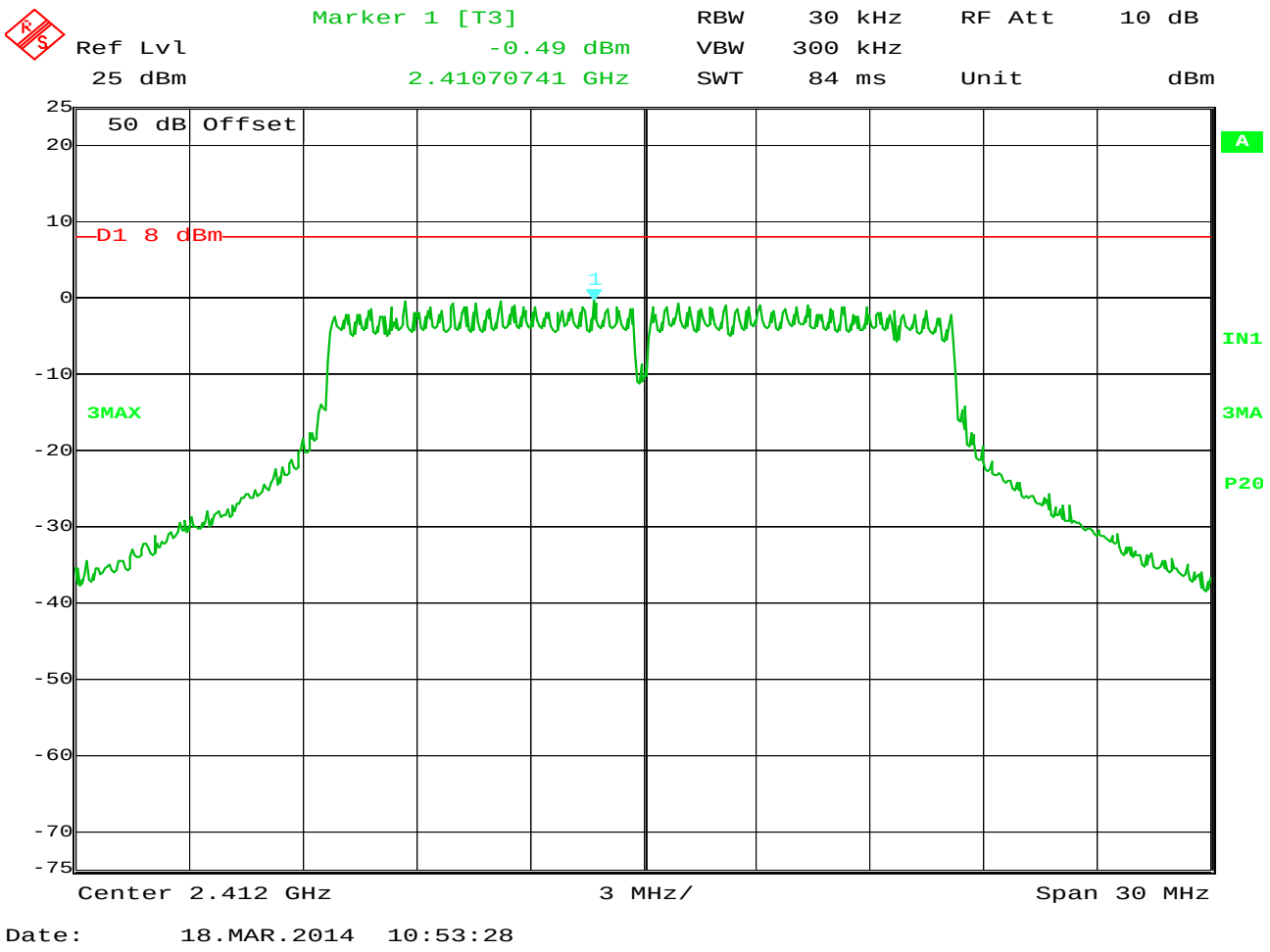
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	48MB/s
NOTES	:	

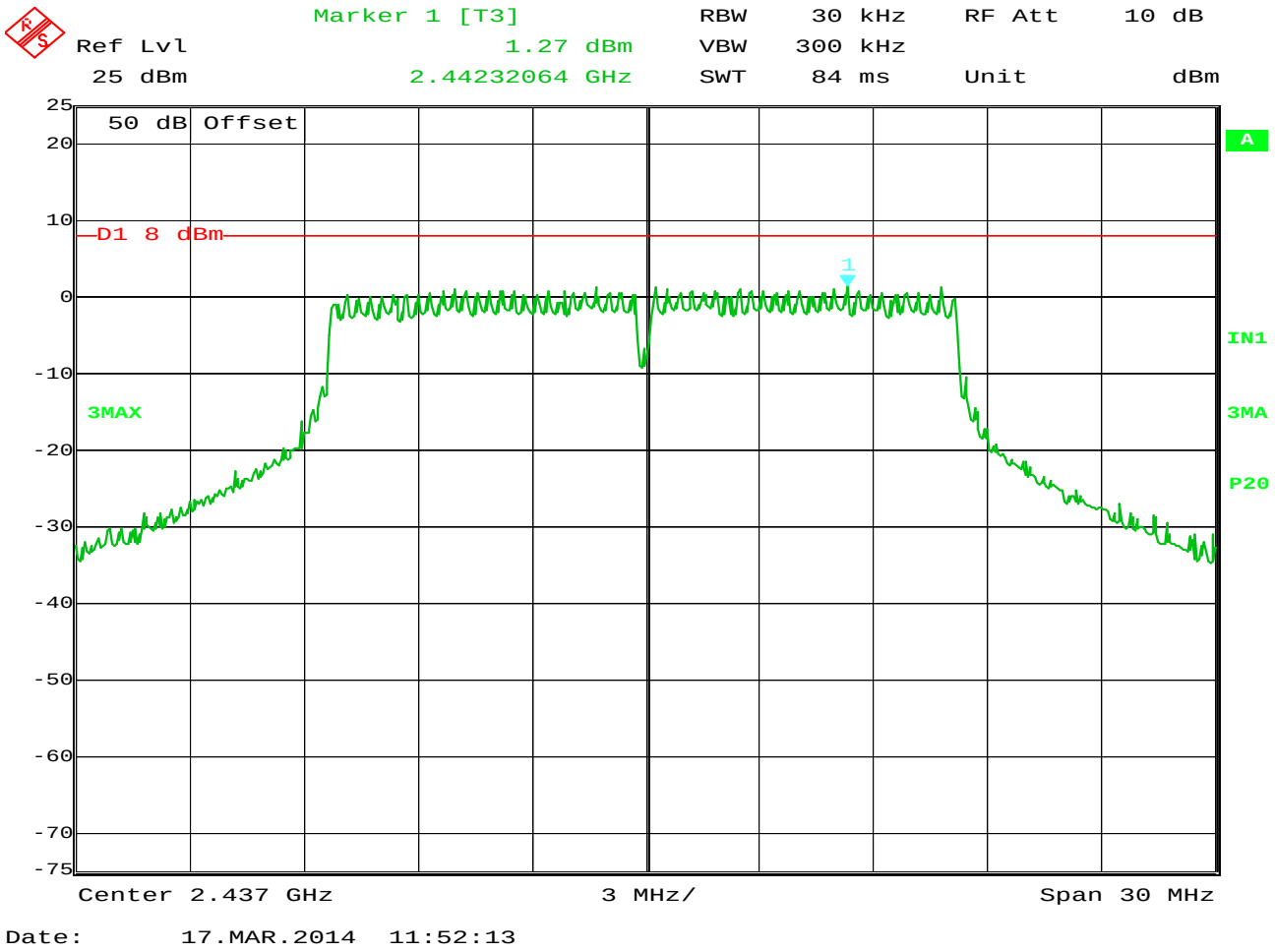
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at LOW Channel
PROTOCOL	:	802.11 g
DATA RATE	:	54MB/s
NOTES	:	

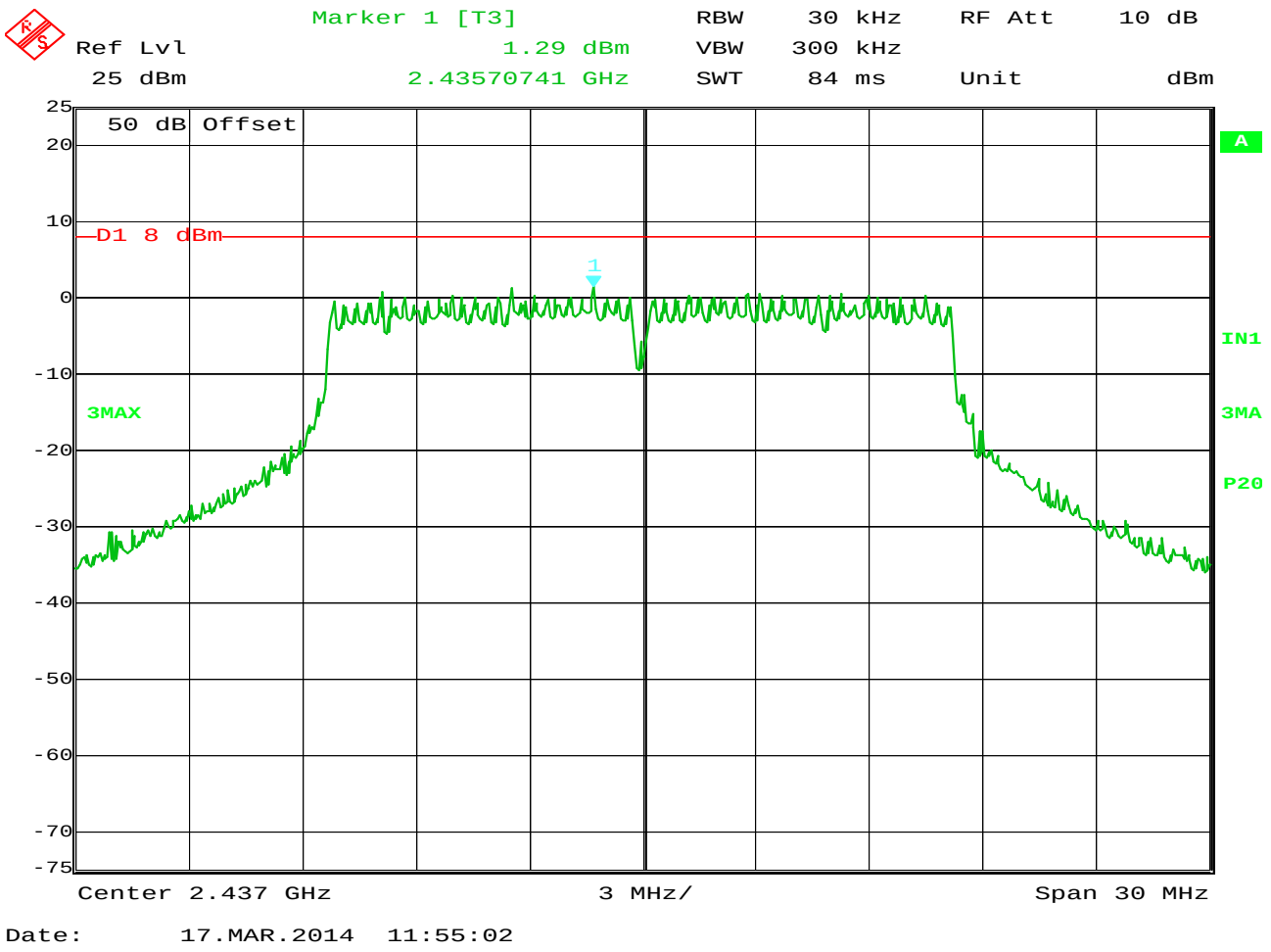
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	6MB/s
NOTES	:	

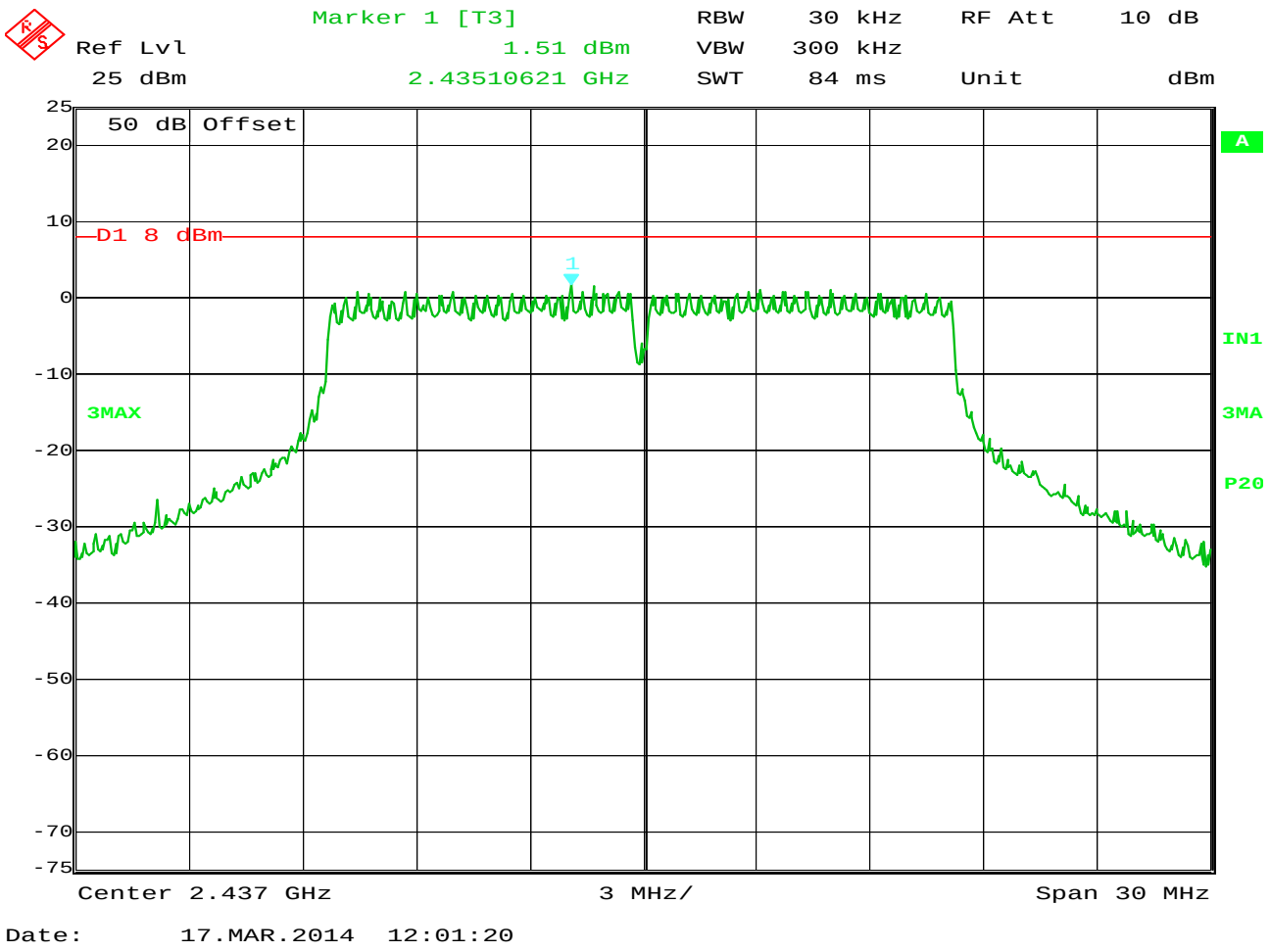
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	9MB/s
NOTES	:	

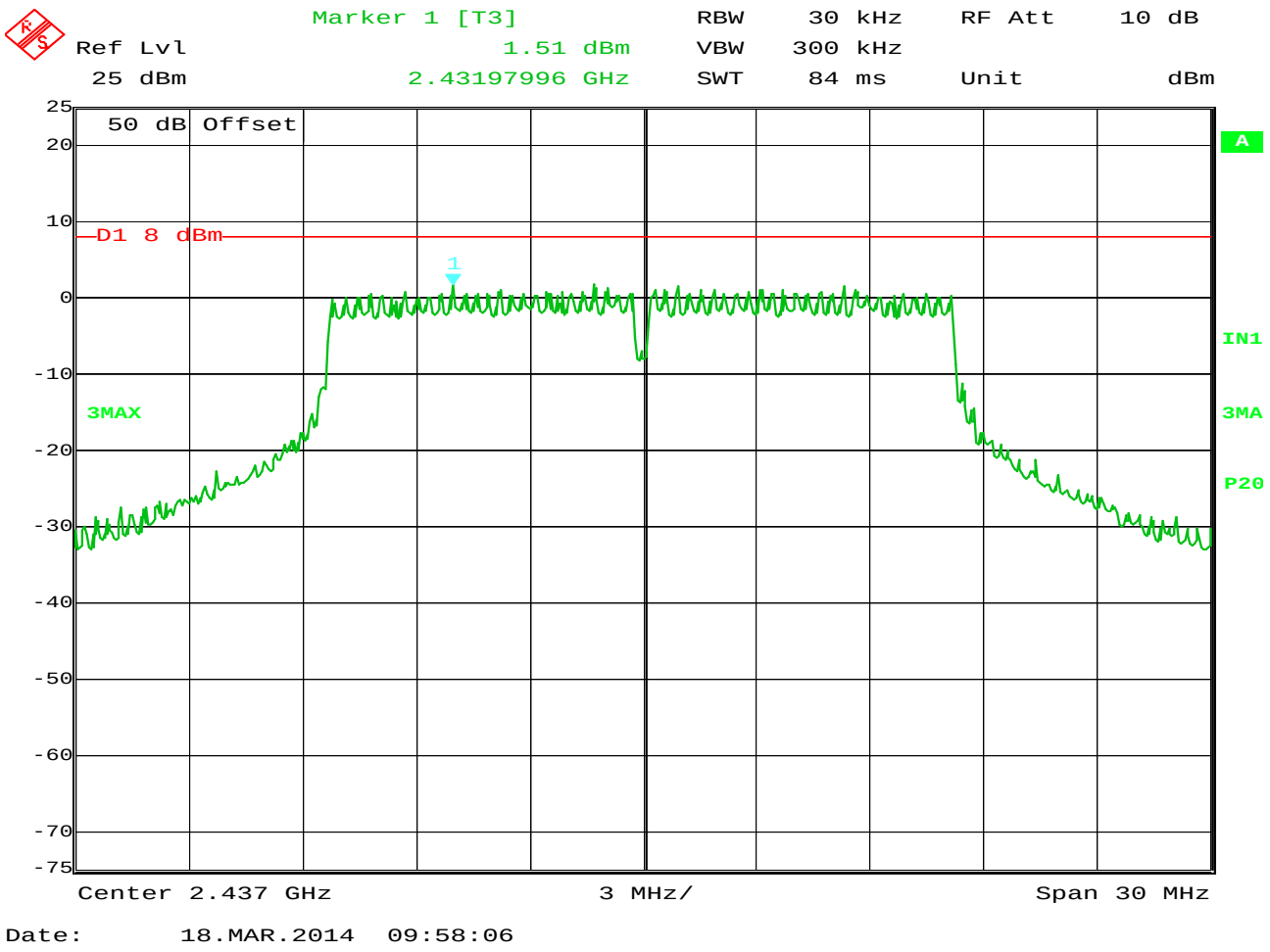
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	12MB/s
NOTES	:	

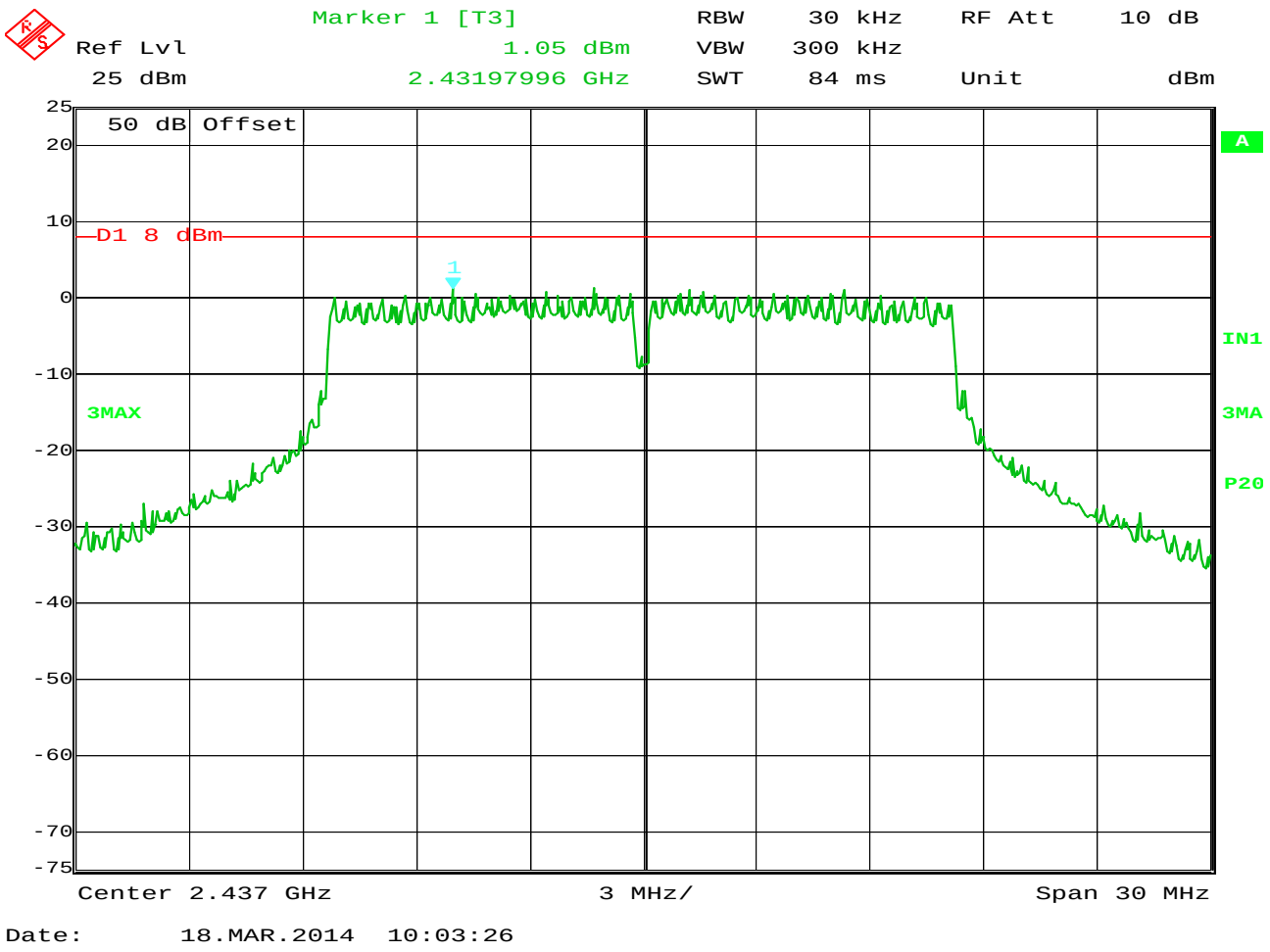
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	18MB/s
NOTES	:	

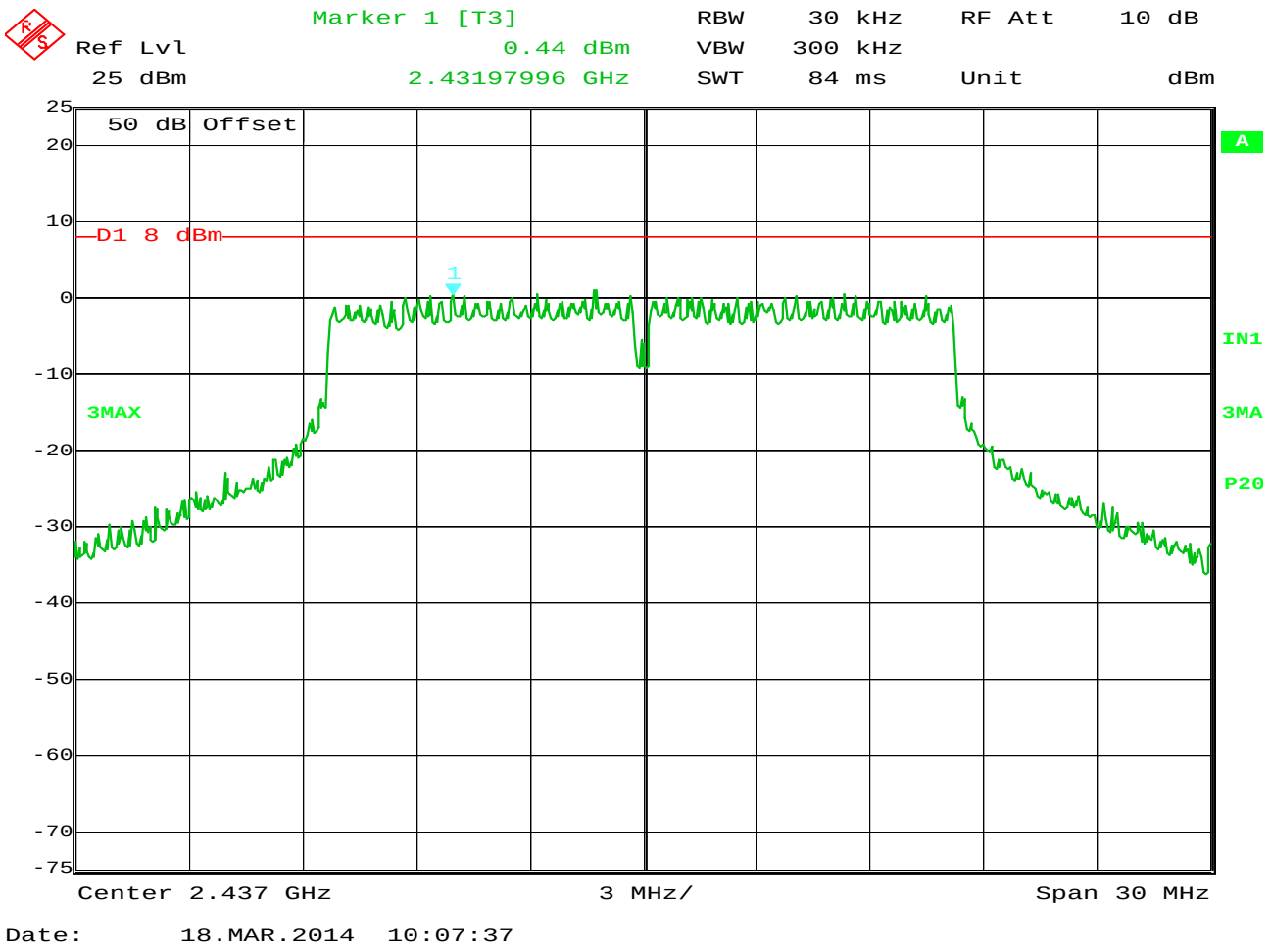
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	24MB/s
NOTES	:	

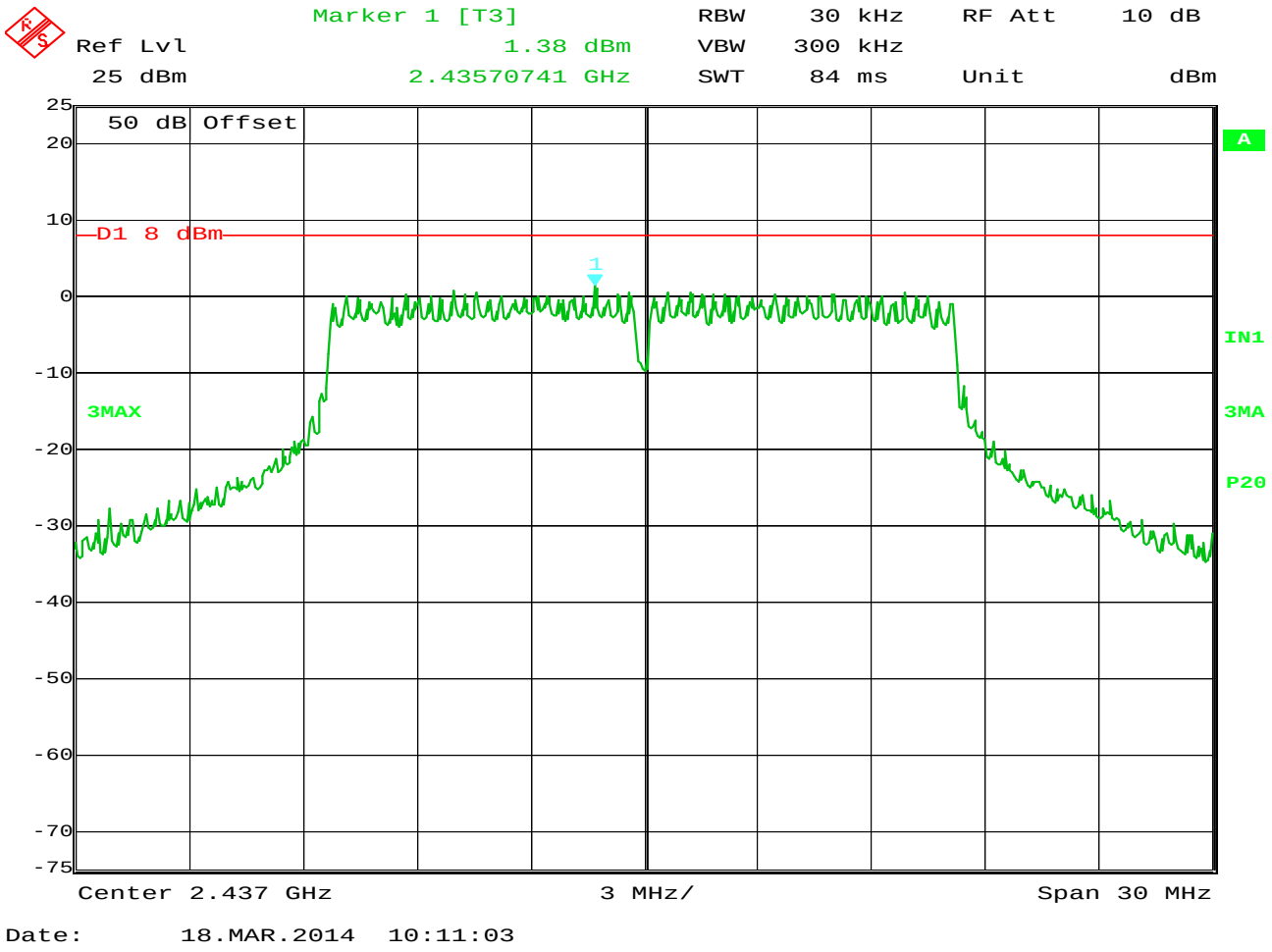
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	: Caterpillar Underground Mining
MODEL NUMBER	: WLg-ABOARD/N/CAT
SERIAL NUMBER	: 13056001 / B4.1
TEST MODE	: Tx at MID Channel
PROTOCOL	: 802.11 g
DATA RATE	: 36MB/s
NOTES	:

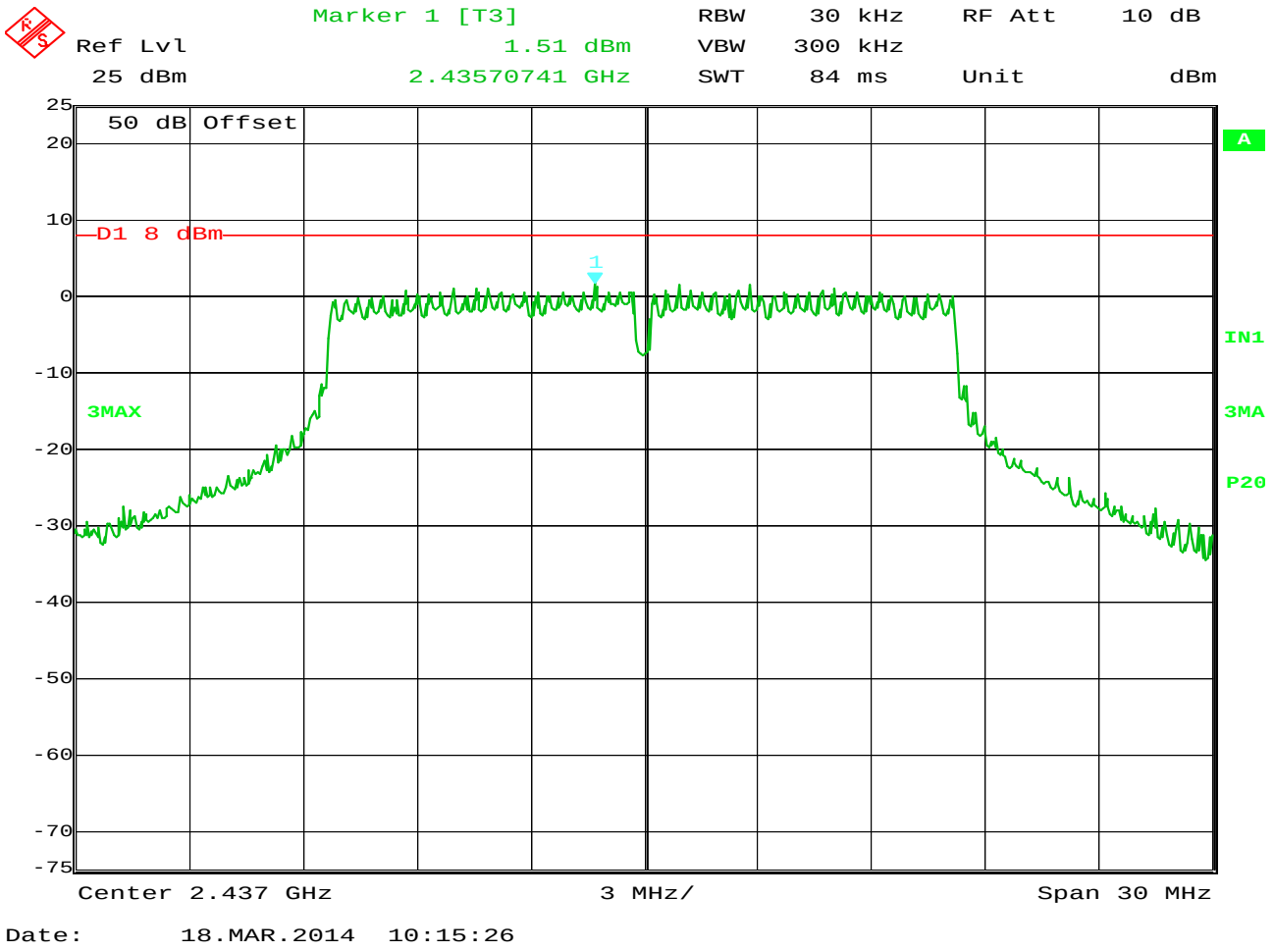
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	48MB/s
NOTES	:	

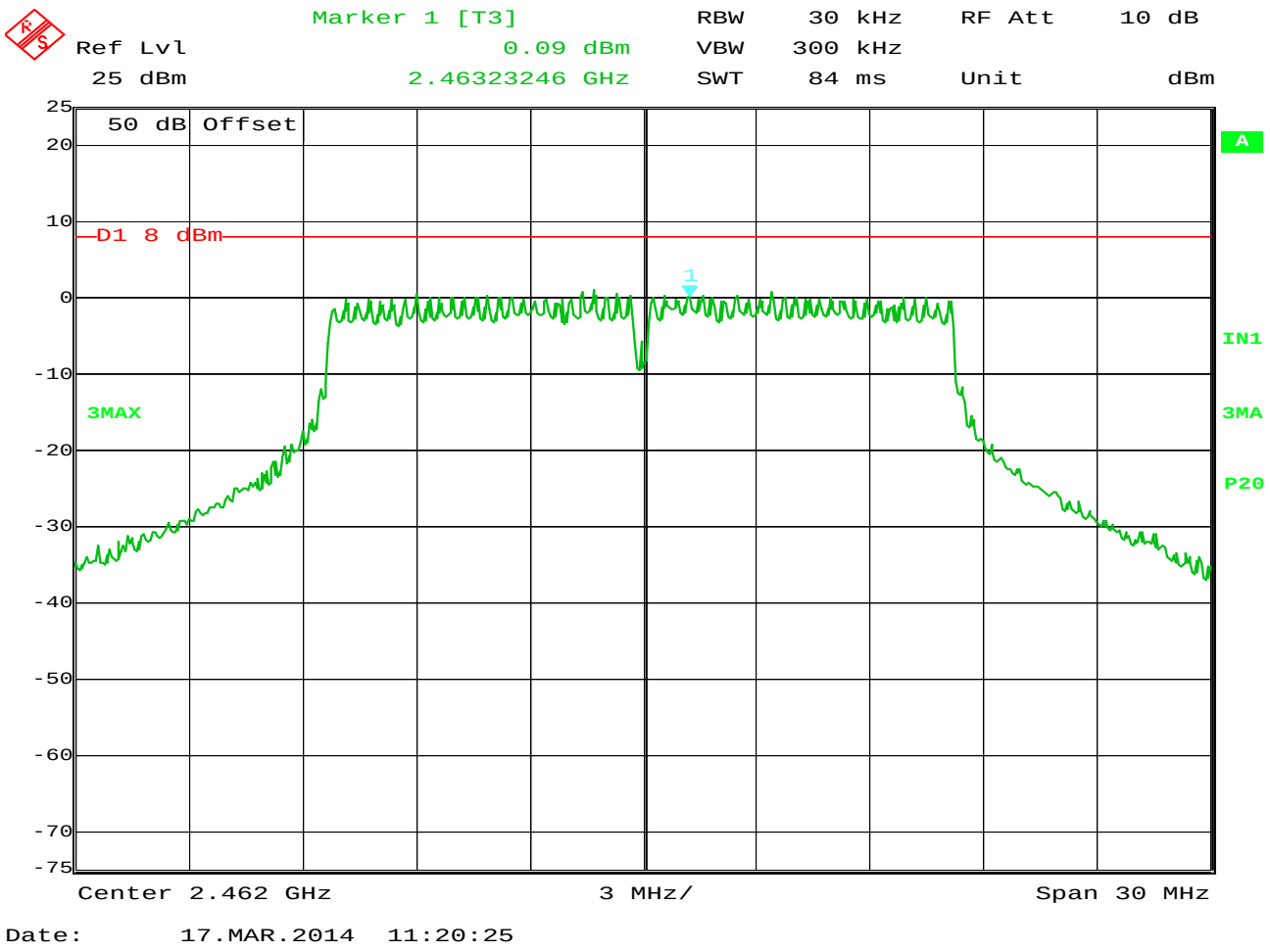
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13056001 / B4.1
TEST MODE	:	Tx at MID Channel
PROTOCOL	:	802.11 g
DATA RATE	:	54MB/s
NOTES	:	

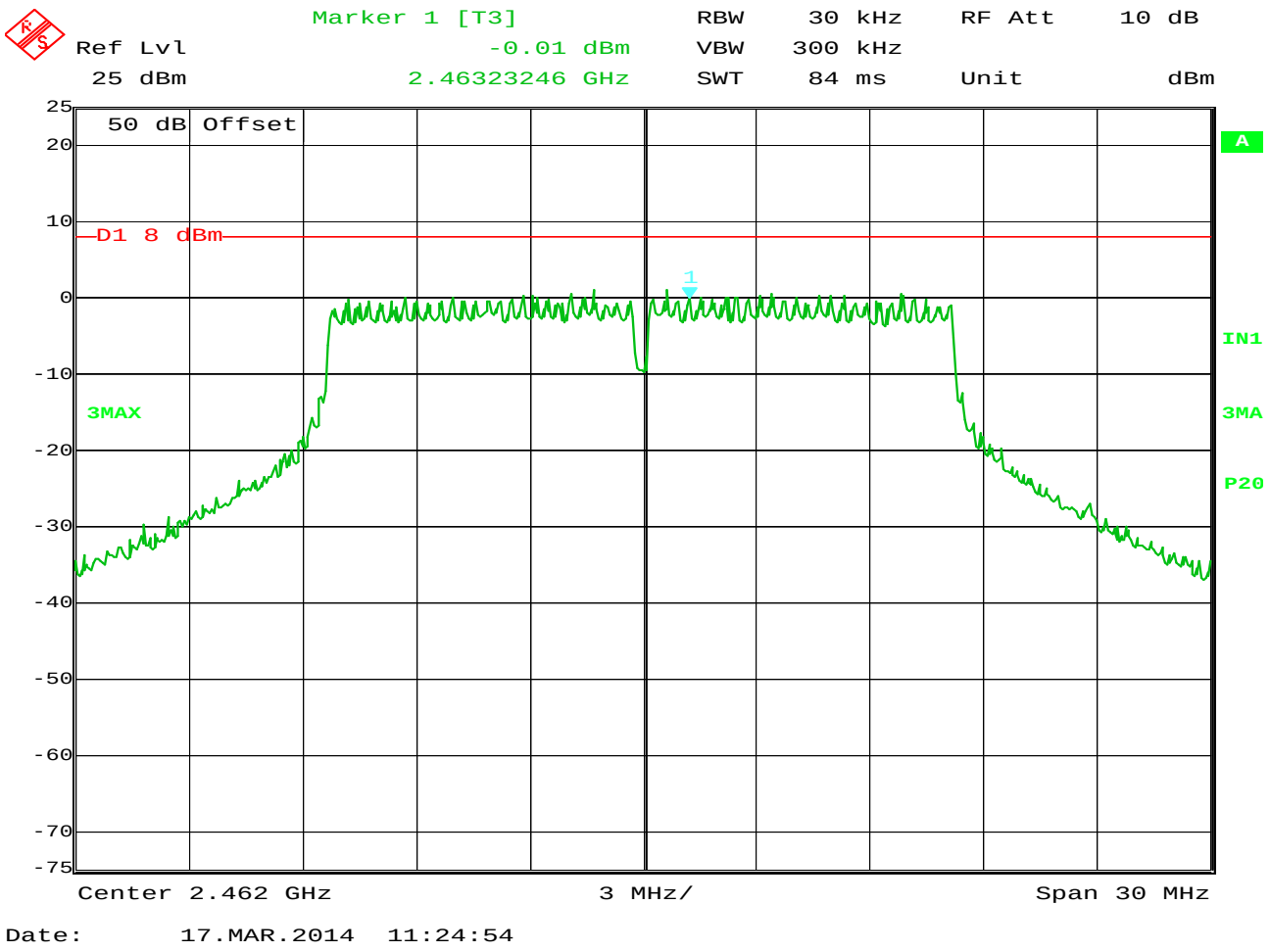
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	6MB/s
NOTES	:	

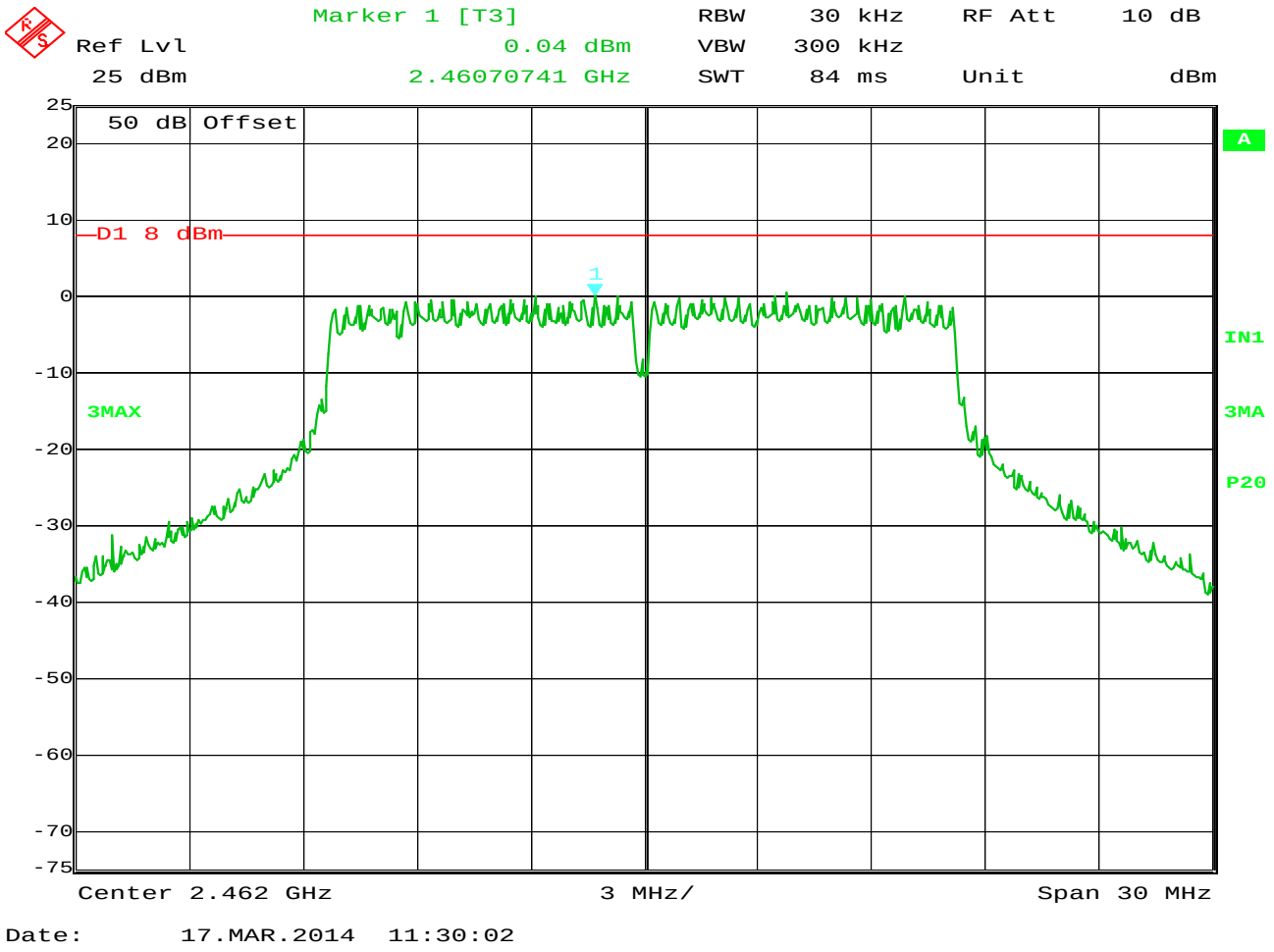
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	9MB/s
NOTES	:	

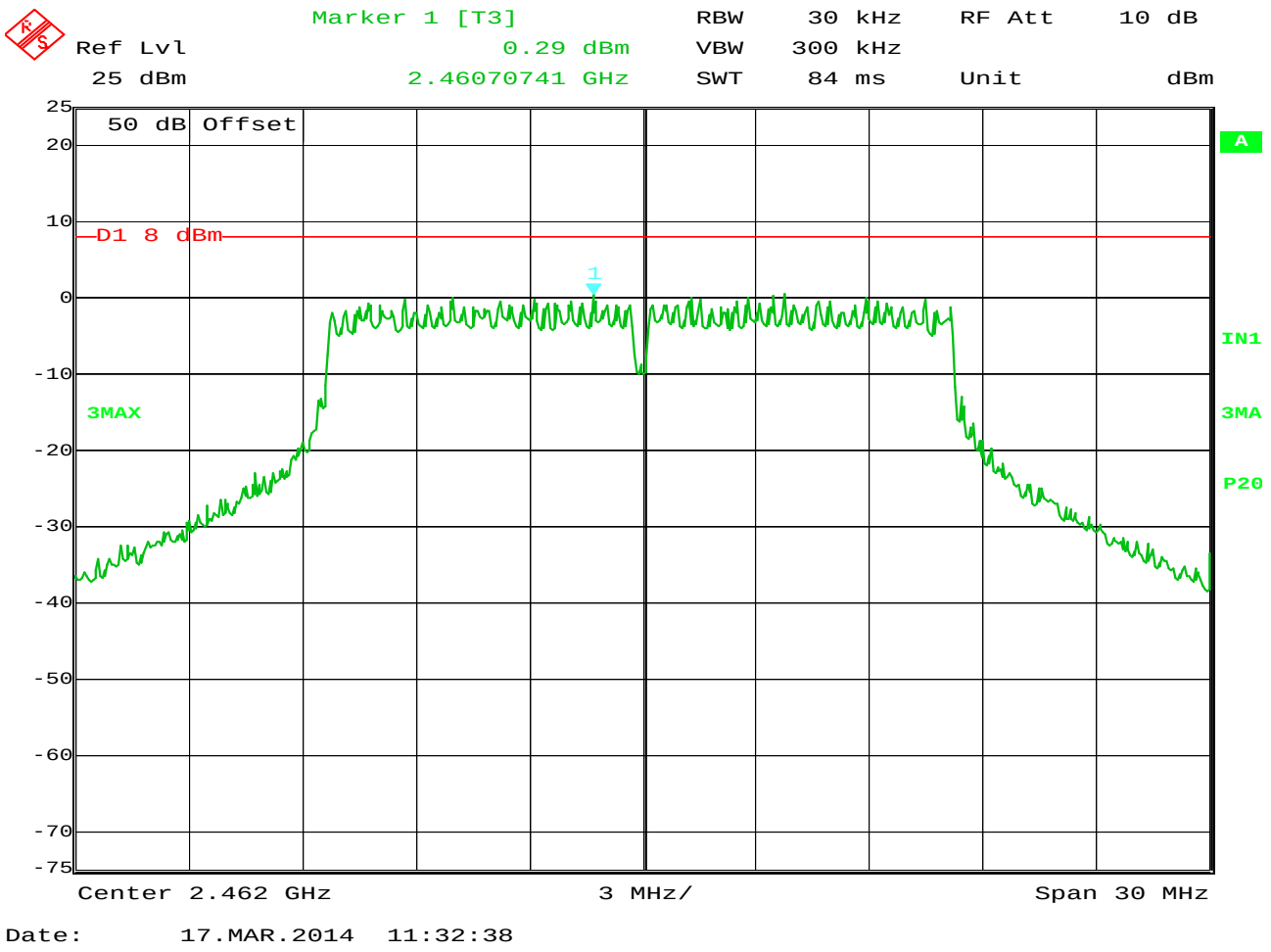
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	12MB/s
NOTES	:	

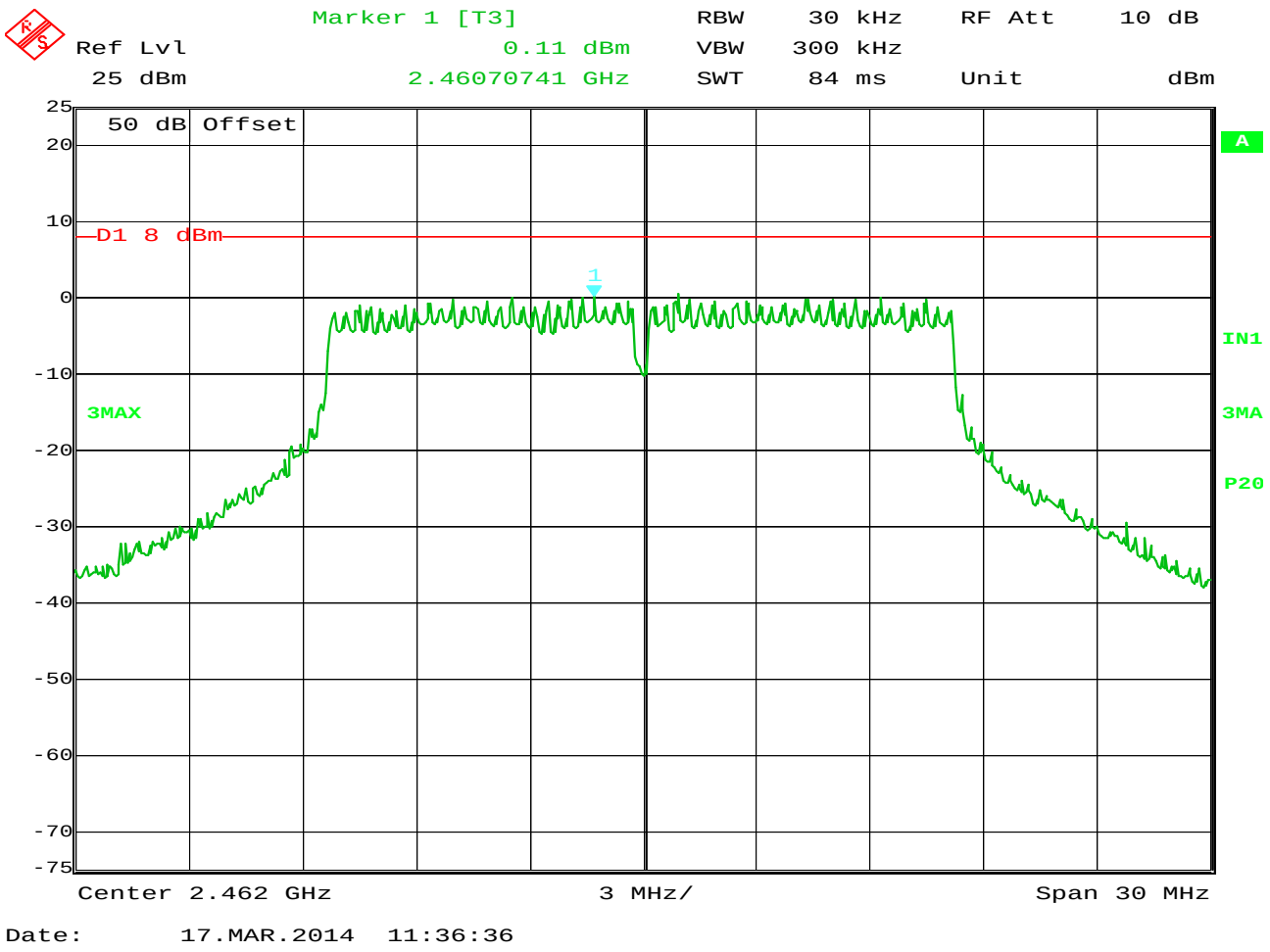
NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	18MB/s
NOTES	:	

NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	24MB/s
NOTES	:	

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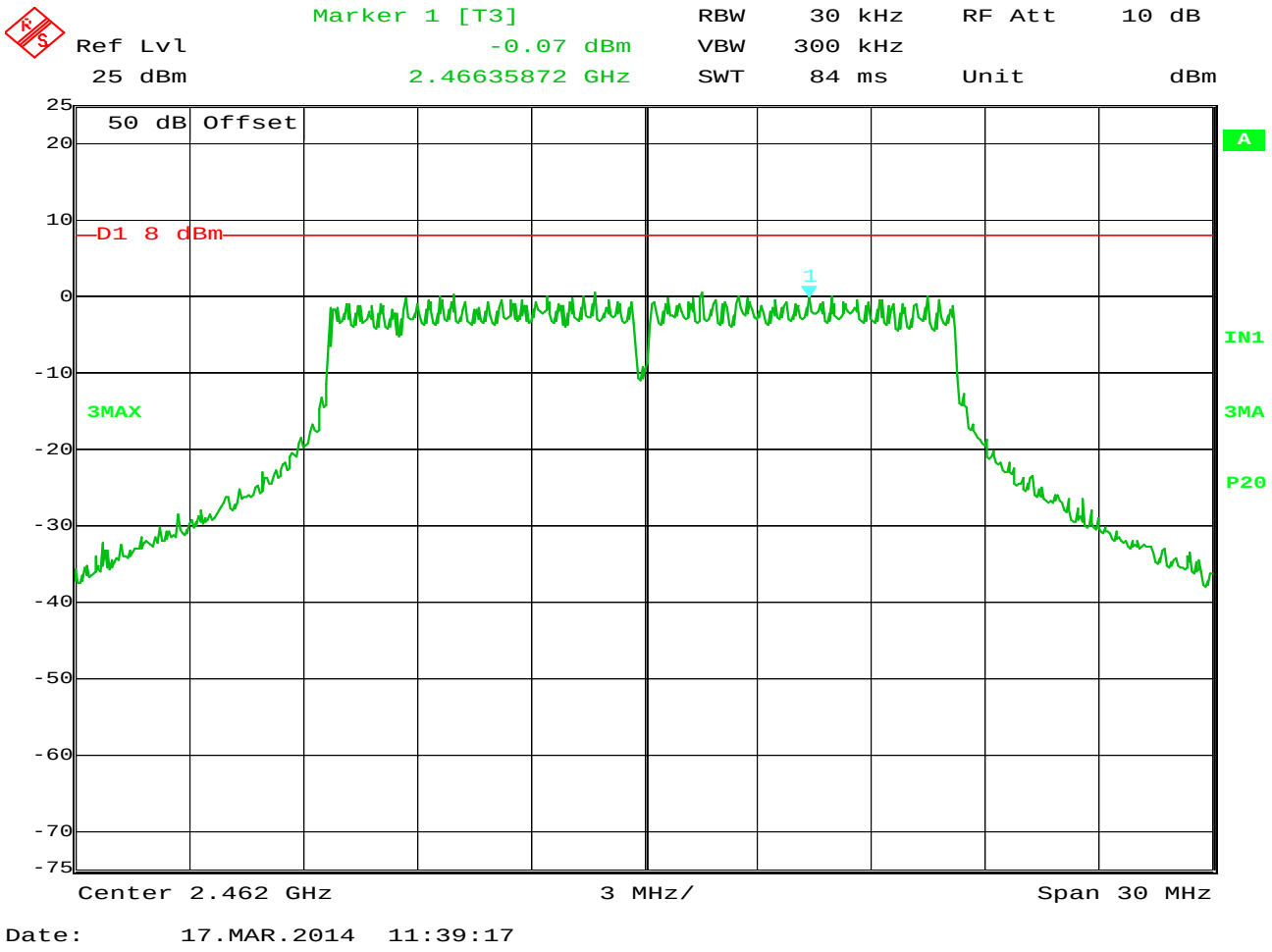
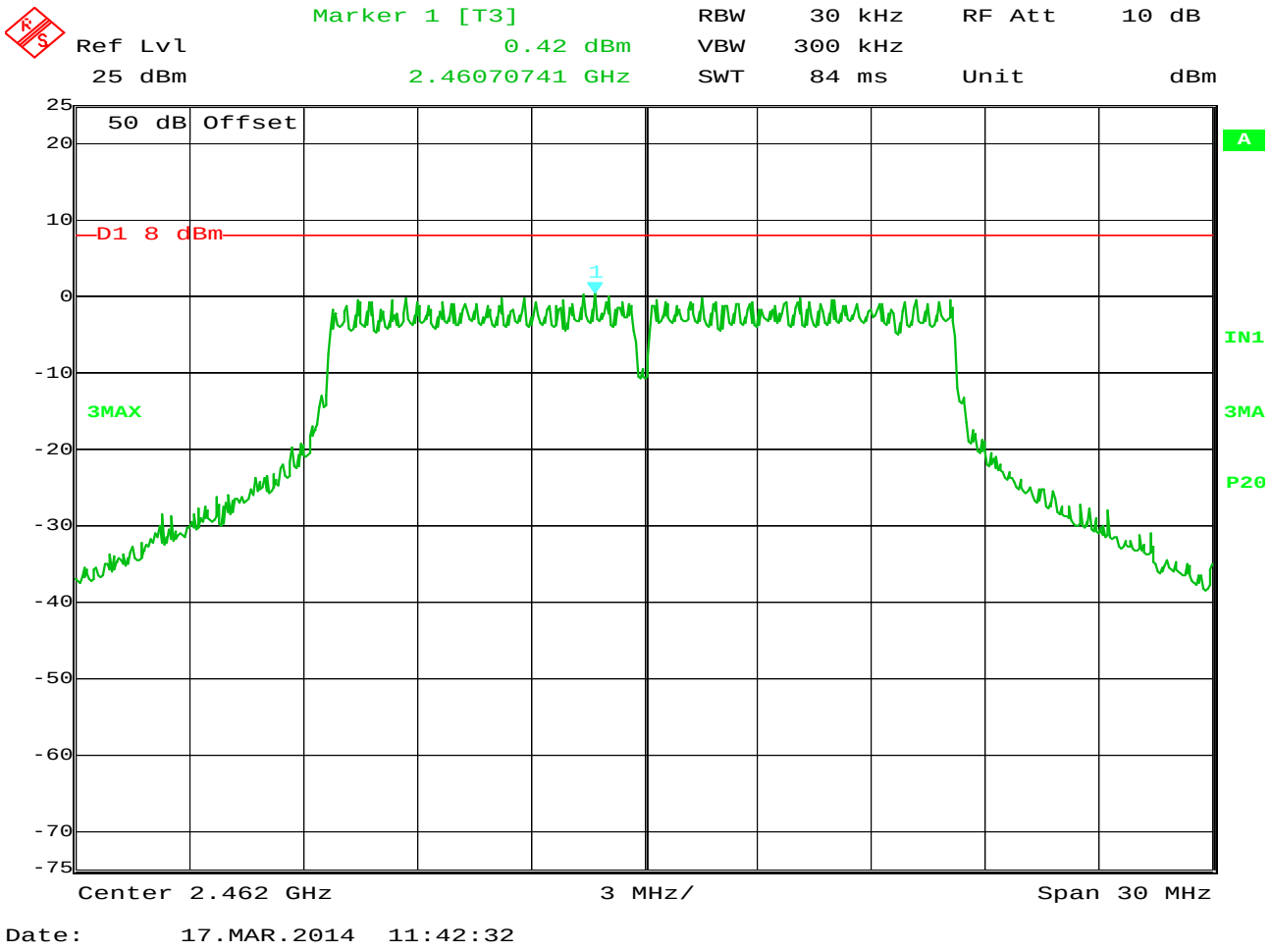


FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	36MB/s
NOTES	:	

NOTES



FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	48MB/s
NOTES	:	

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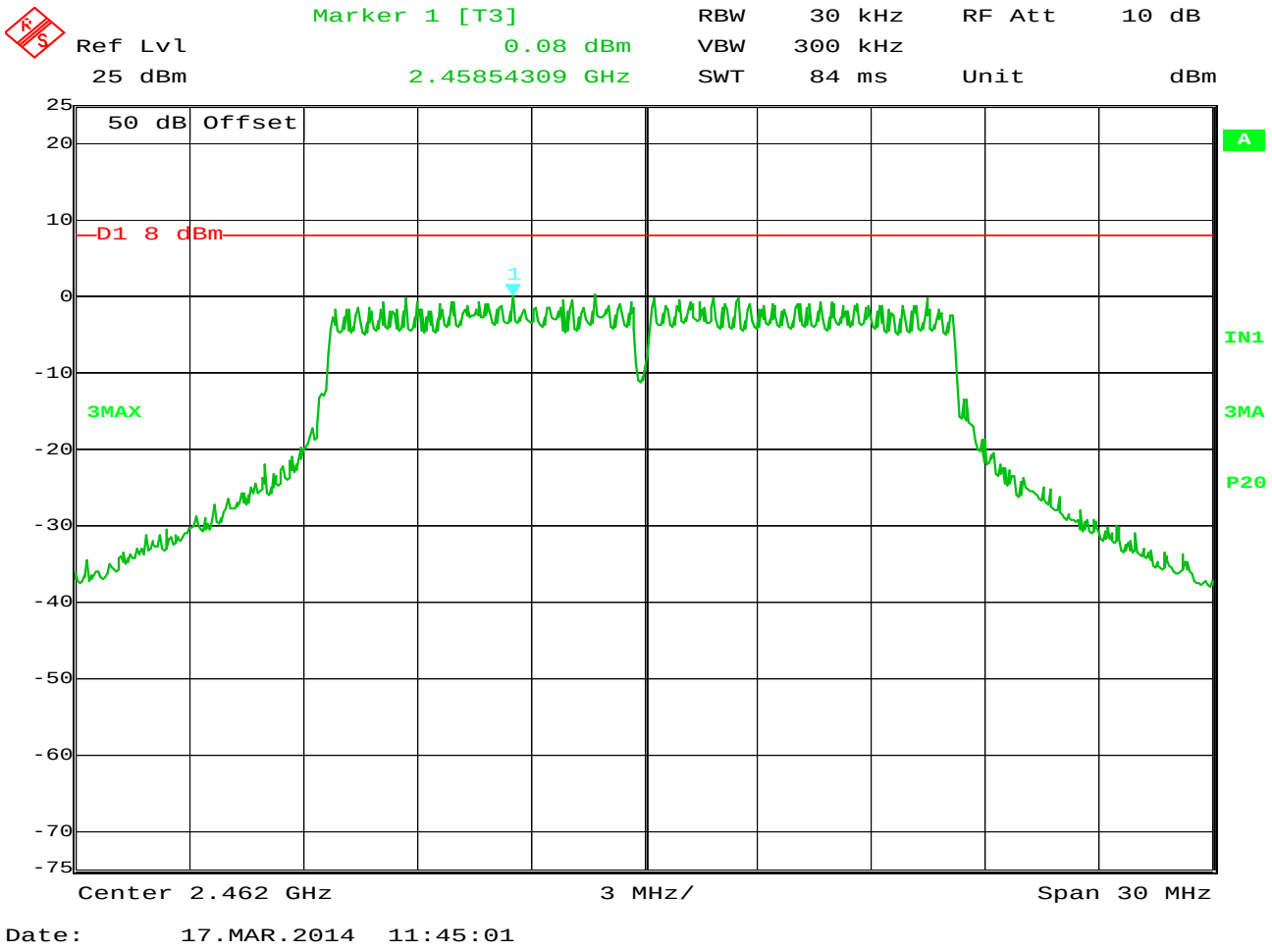

FCC 15.247 Maximum Peak Conducted Power Spectral Density

MANUFACTURER	:	Caterpillar Underground Mining
MODEL NUMBER	:	WLg-ABOARD/N/CAT
SERIAL NUMBER	:	13059009
TEST MODE	:	Tx at HIGH Channel
PROTOCOL	:	802.11 g
DATA RATE	:	54MB/s
NOTES	:	

NOTES