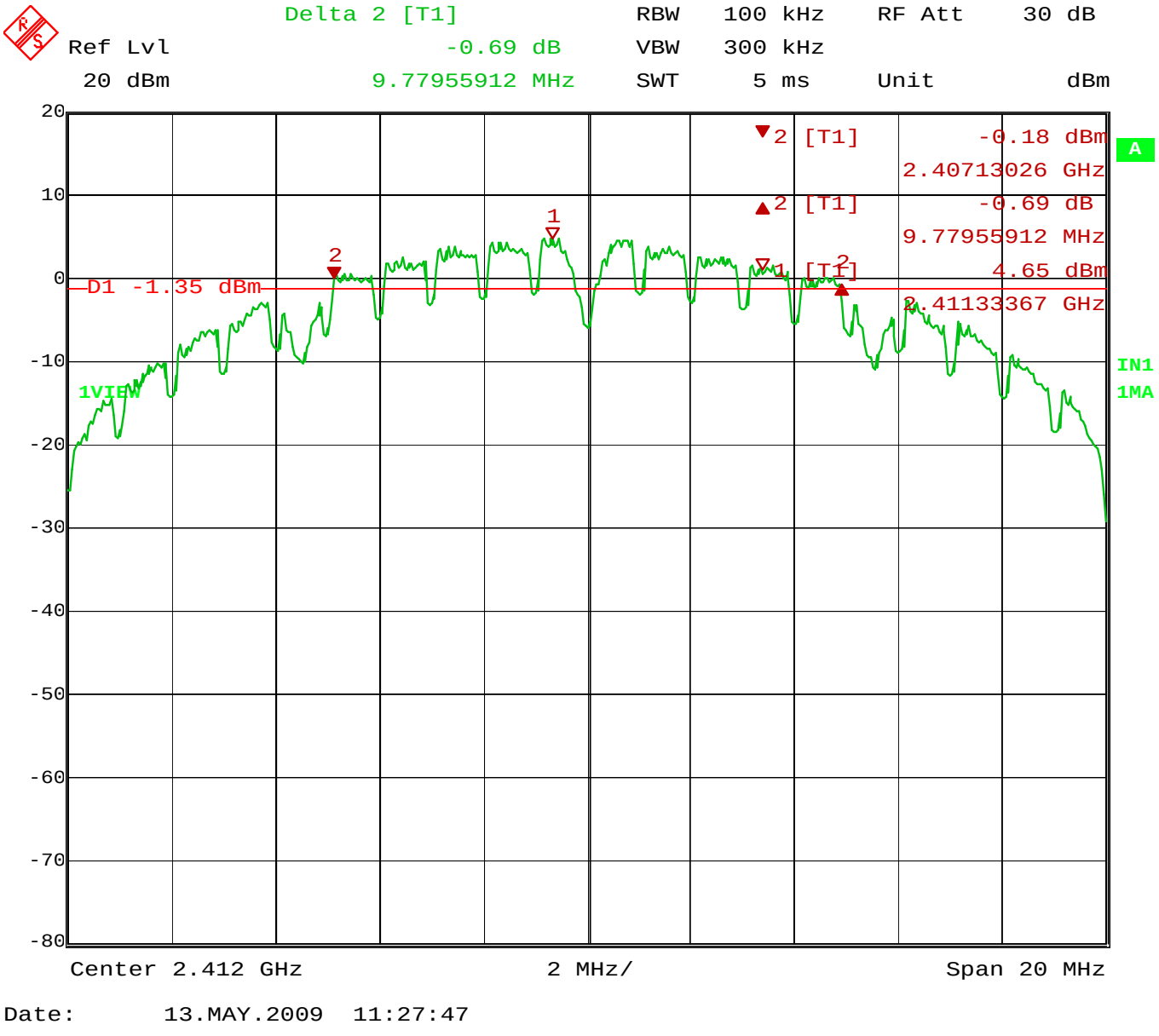
Test Data

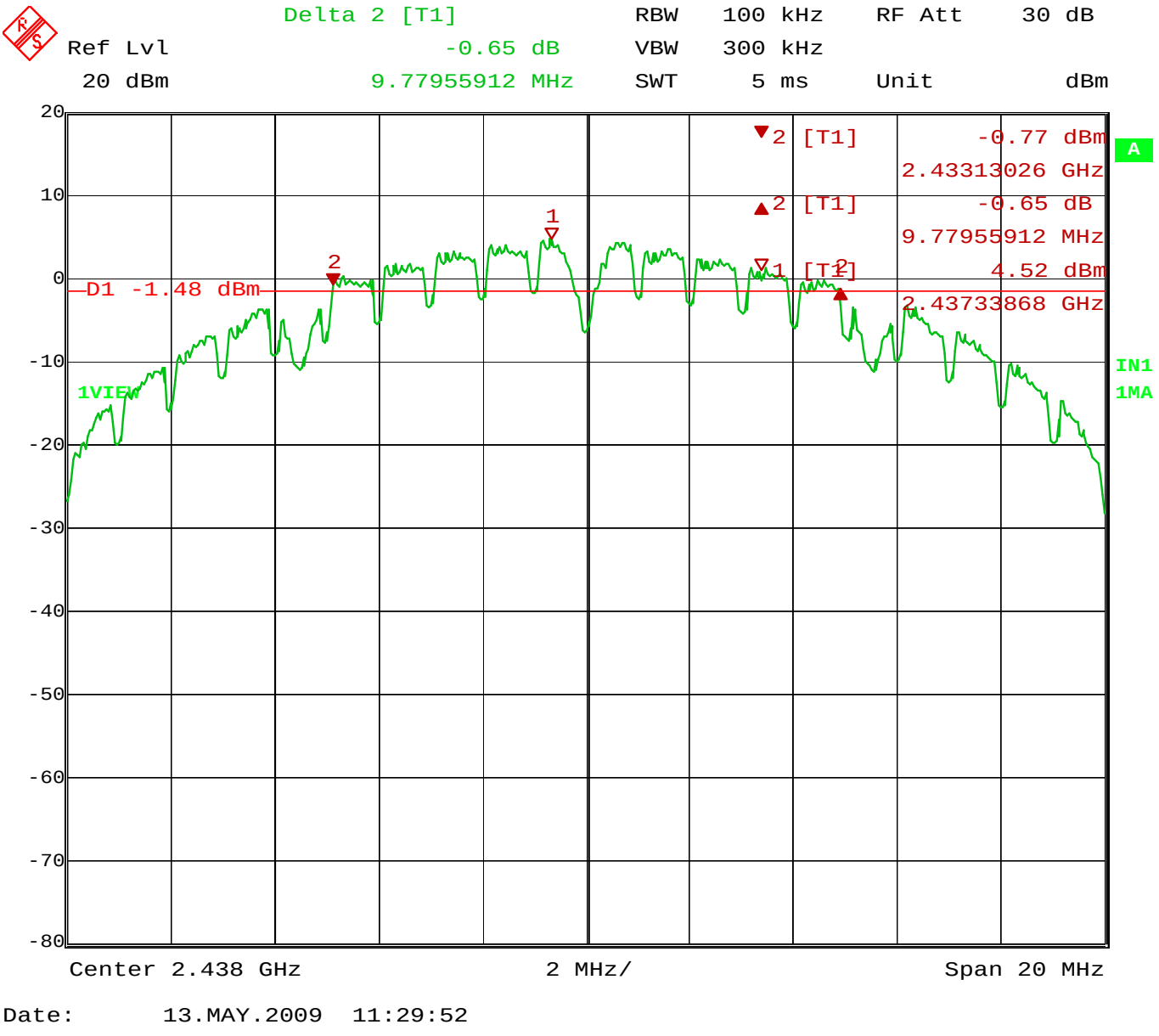
1. Minimum 6dB bandwidth

Antenna 1

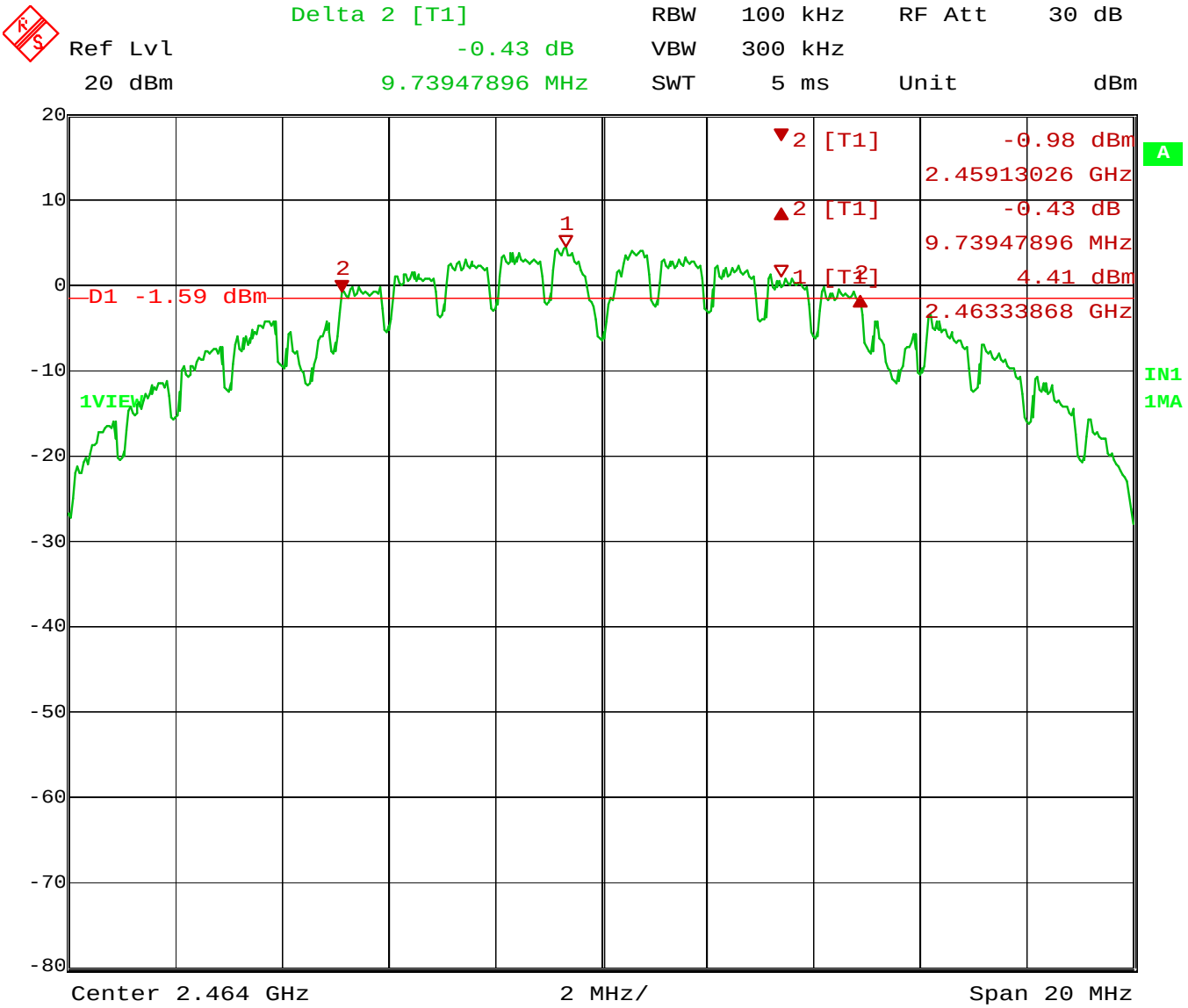
Channel L



Channel M

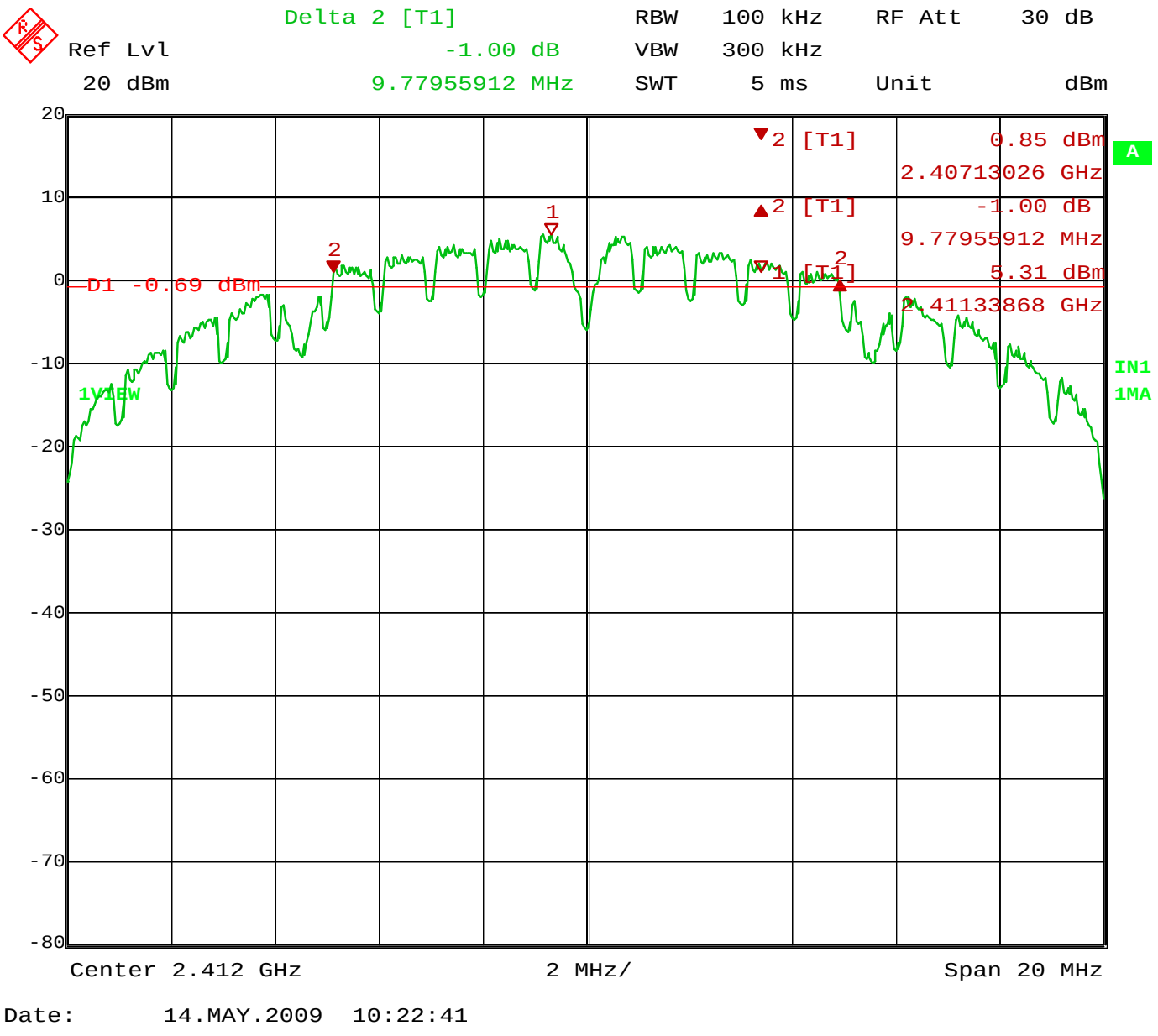

Delta 2 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
-0.65 dB
VBW 300 kHz
20 dBm
9.77955912 MHz
SWT 5 ms
Unit dBm
2 [T1]
-0.77 dBm
2.43313026 GHz
2 [T1]
-0.65 dB
9.77955912 MHz
1 [T1]
4.52 dBm
2.43733868 GHz
D1 -1.48 dBm
1VIEW
A
IN1
1MA
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.438 GHz
2 MHz/
Span 20 MHz
Date: 13.MAY.2009 11:29:52

Channel H

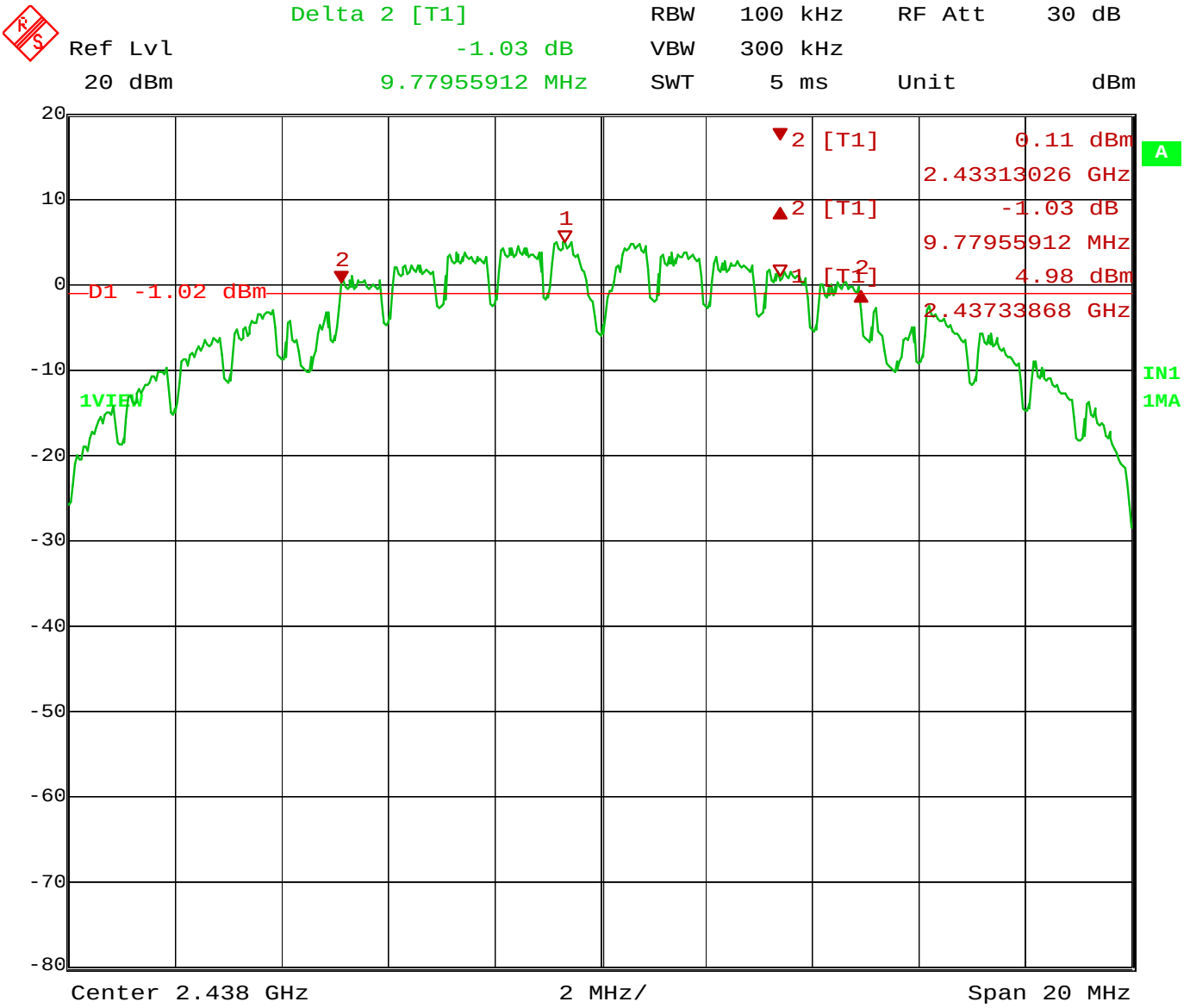

Delta 2 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
-0.43 dB
VBW 300 kHz
20 dBm
9.73947896 MHz
SWT 5 ms
Unit dBm
2 [T1]
-0.98 dBm
2.45913026 GHz
2 [T1]
-0.43 dB
9.73947896 MHz
1 [T1]
4.41 dBm
2.46333868 GHz
D1 -1.59 dBm
1VIEW
A
IN1
1MA
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.464 GHz
2 MHz/
Span 20 MHz
Date: 13.MAY.2009 11:31:44

Antenna 2

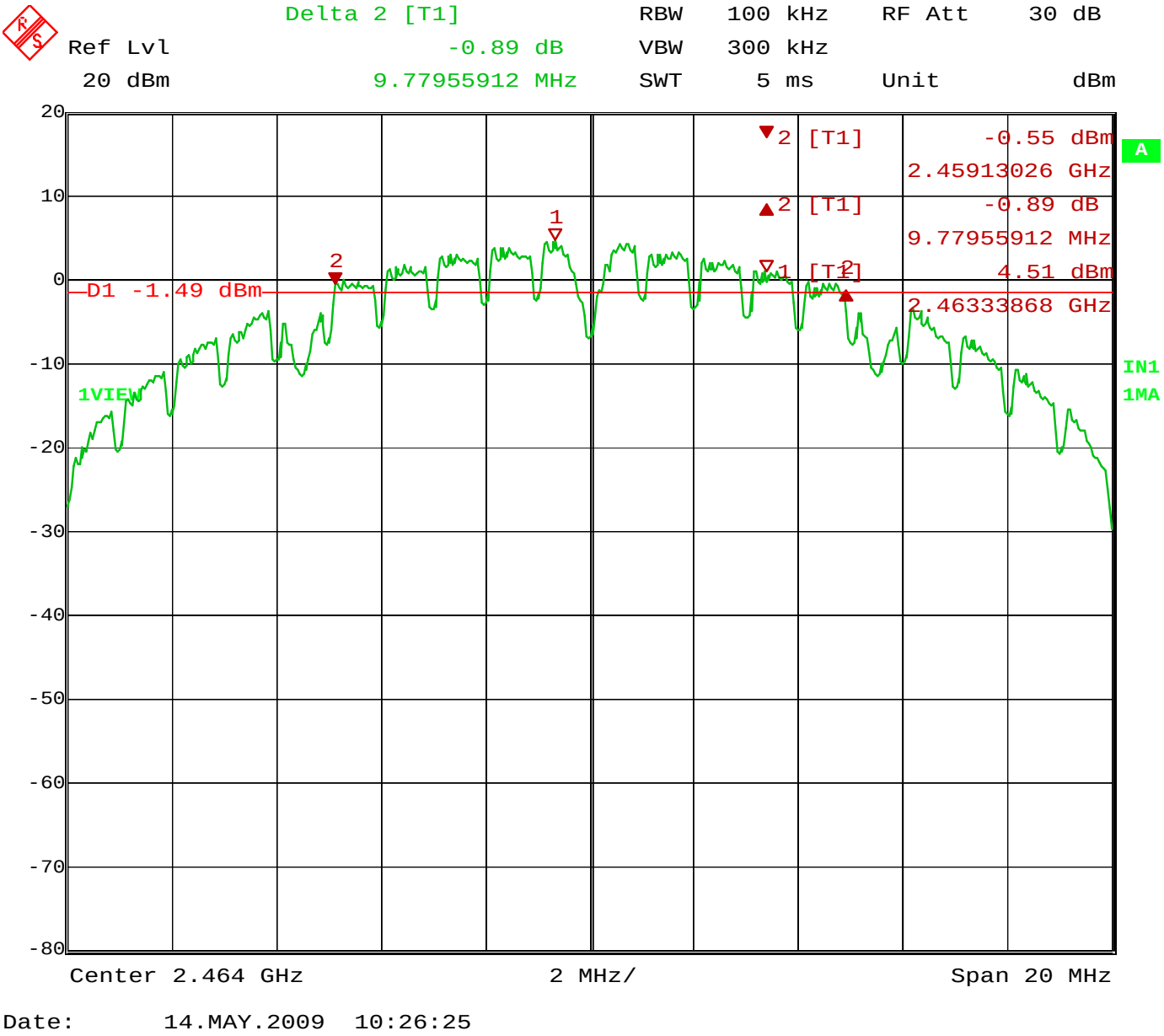
Channel L



Channel M

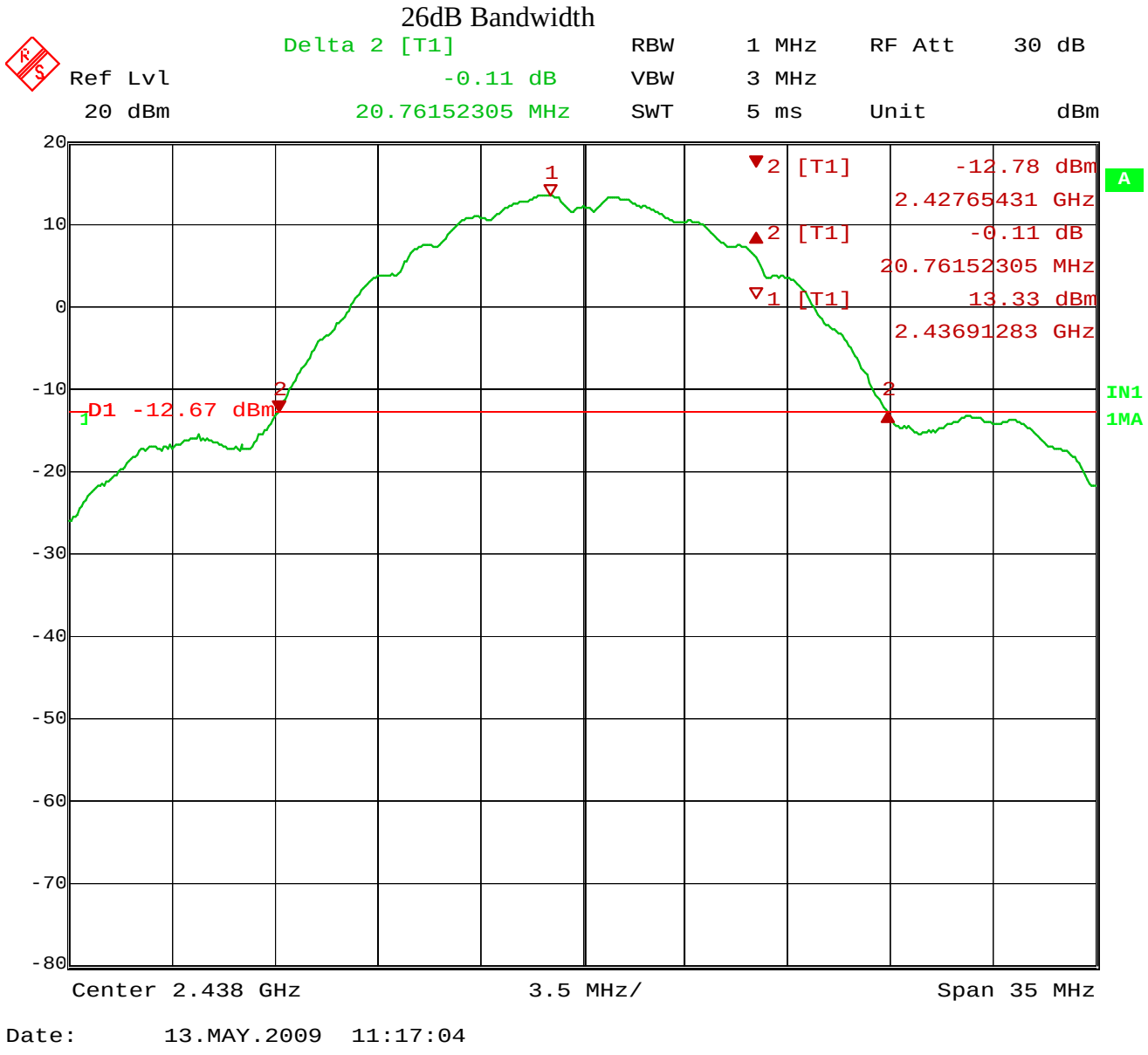

Delta 2 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
-1.03 dB
VBW 300 kHz
20 dBm
9.77955912 MHz
SWT 5 ms
Unit dBm
2 [T1]
0.11 dBm
2.43313026 GHz
2 [T1]
-1.03 dB
9.77955912 MHz
1 [T1]
4.98 dBm
2.43733868 GHz
D1 -1.02 dBm
1VIEW
A
IN1
1MA
Center 2.438 GHz
2 MHz/
Span 20 MHz
Date: 14.MAY.2009 10:24:41

Channel H

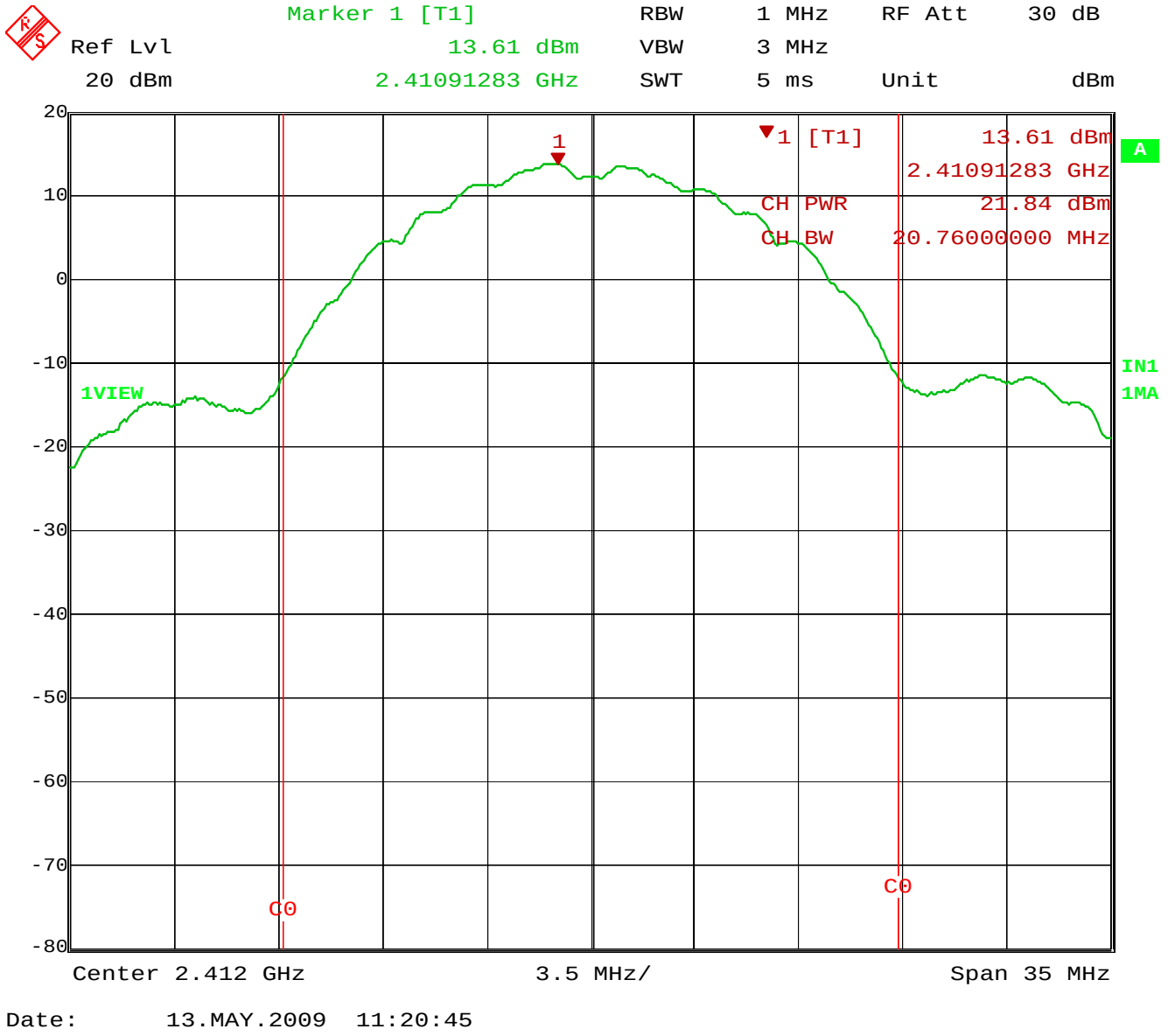

Delta 2 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
-0.89 dB
VBW 300 kHz
20 dBm
9.77955912 MHz
SWT 5 ms
Unit dBm
2 [T1]
-0.55 dBm
2.45913026 GHz
2 [T1]
-0.89 dB
9.77955912 MHz
1 [T1]
4.51 dBm
2.46333868 GHz
D1 -1.49 dBm
1VIEW
A
IN1
1MA
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.464 GHz
2 MHz/
Span 20 MHz
Date: 14.MAY.2009 10:26:25

2. Maximum peak output power

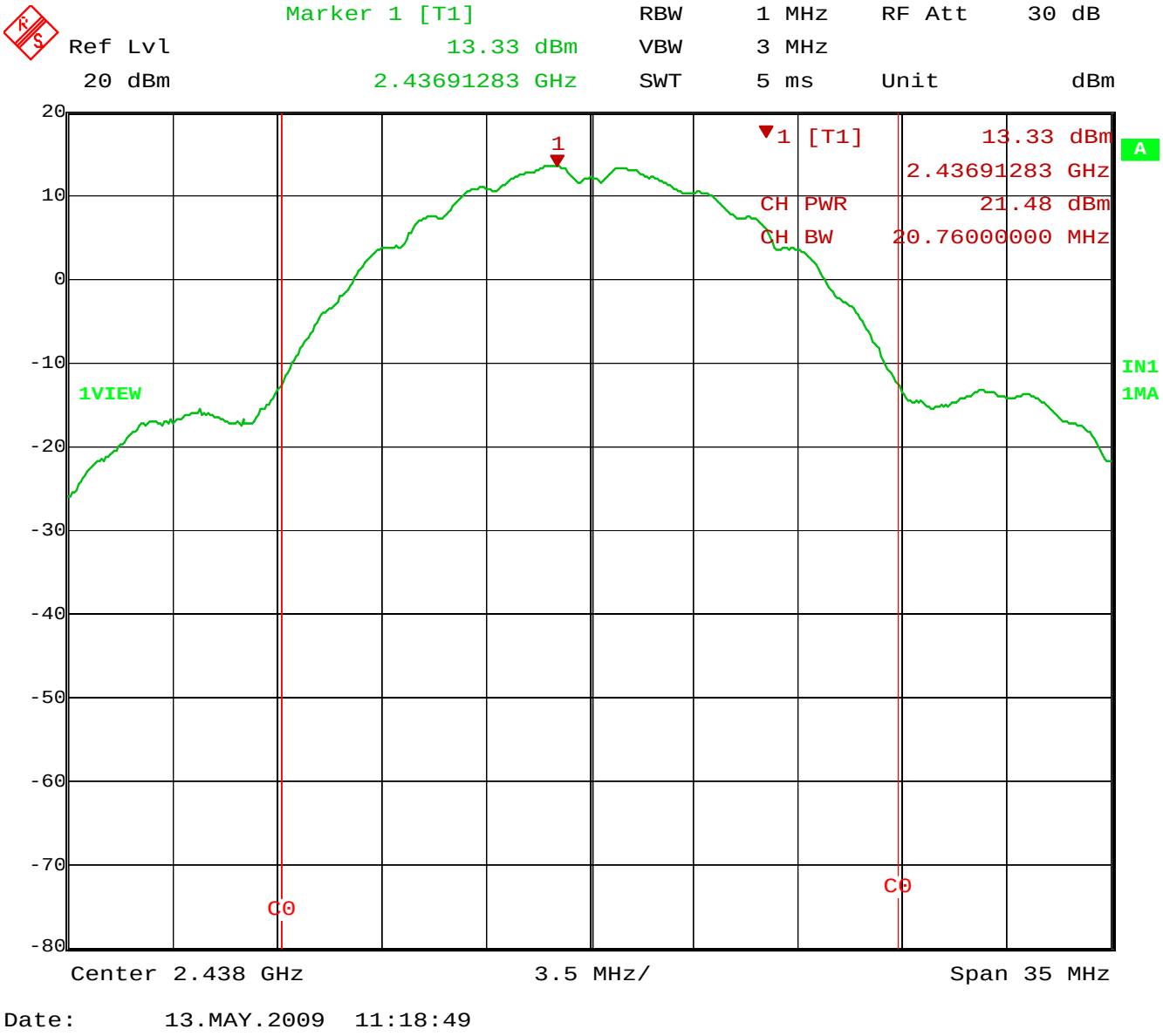
Antenna 1



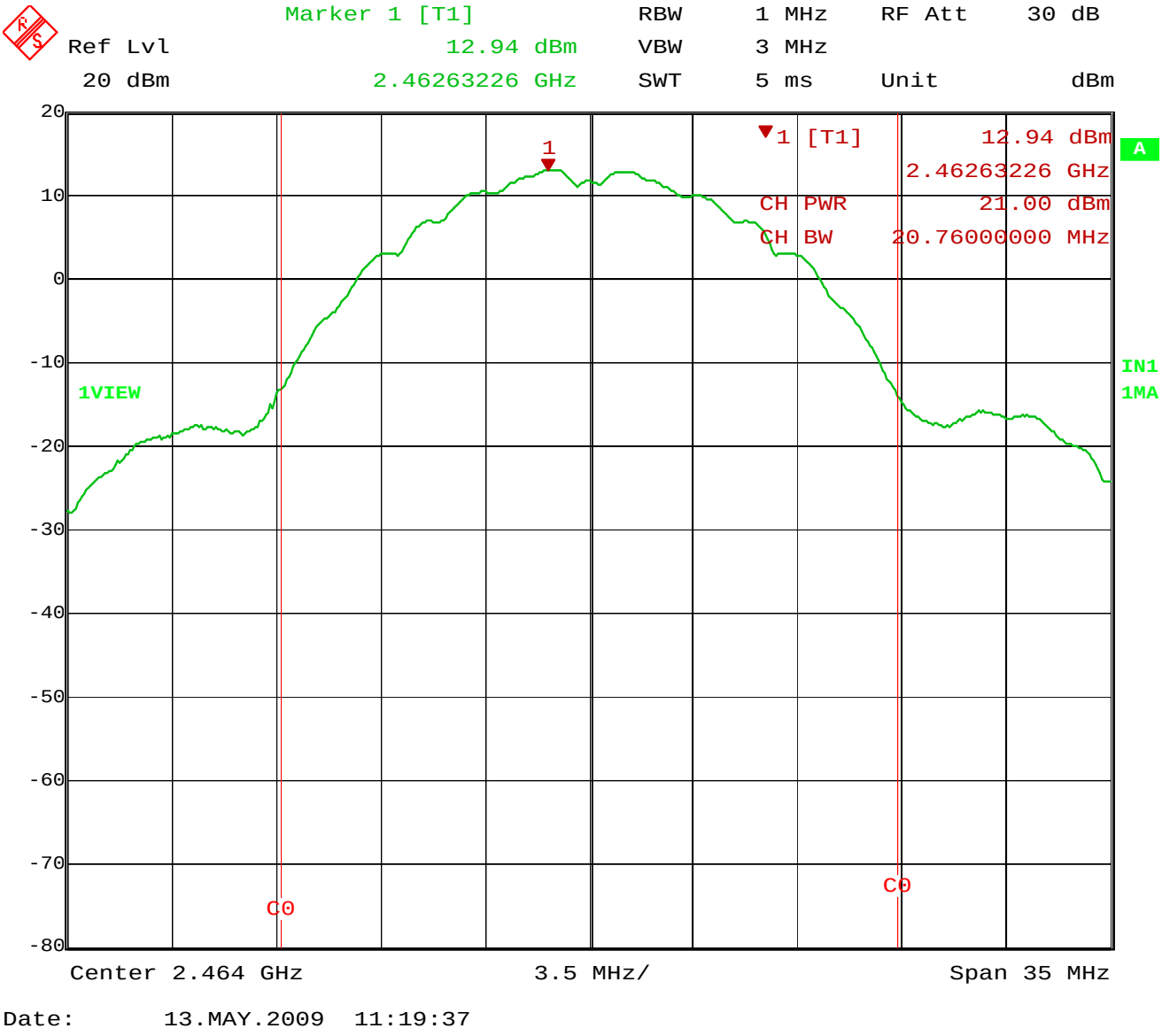
Channel L


Marker 1 [T1]
RBW 1 MHz
RF Att 30 dB
Ref Lvl
13.61 dBm
VBW 3 MHz
20 dBm
2.41091283 GHz
SWT 5 ms
Unit dBm
1 [T1]
13.61 dBm
2.41091283 GHz
CH PWR 21.84 dBm
CH BW 20.76000000 MHz
A
IN1
1MA
1VIEW
C0
C0
Center 2.412 GHz
3.5 MHz/
Span 35 MHz
Date: 13.MAY.2009 11:20:45

Channel M

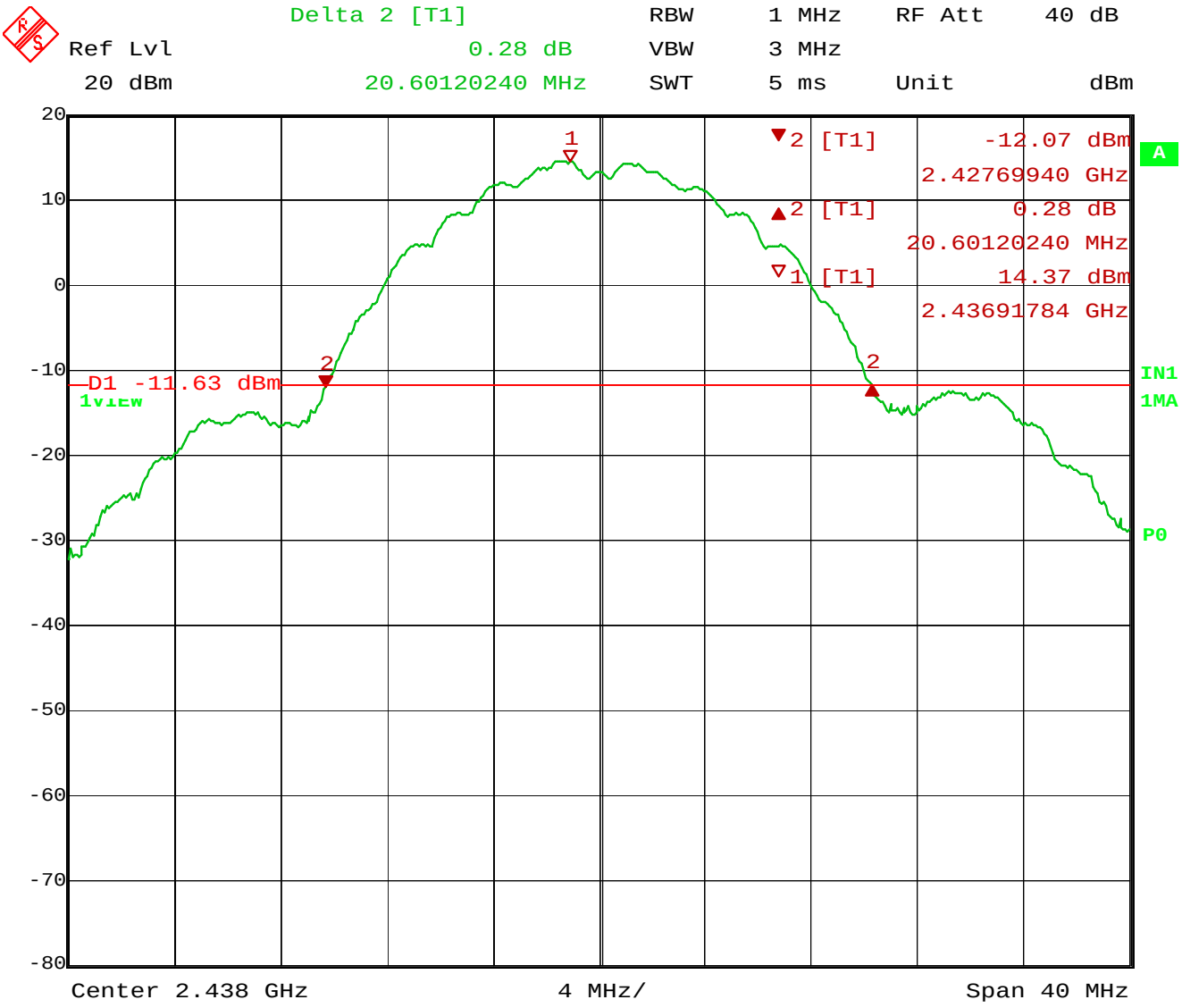

Marker 1 [T1]
RBW 1 MHz
RF Att 30 dB
Ref Lvl
13.33 dBm
VBW 3 MHz
20 dBm
2.43691283 GHz
SWT 5 ms
Unit dBm
1 [T1]
13.33 dBm
2.43691283 GHz
CH PWR 21.48 dBm
CH BW 20.76000000 MHz
A
IN1
1MA
1VIEW
C0
C0
Center 2.438 GHz
3.5 MHz/
Span 35 MHz
Date: 13.MAY.2009 11:18:49

Channel H

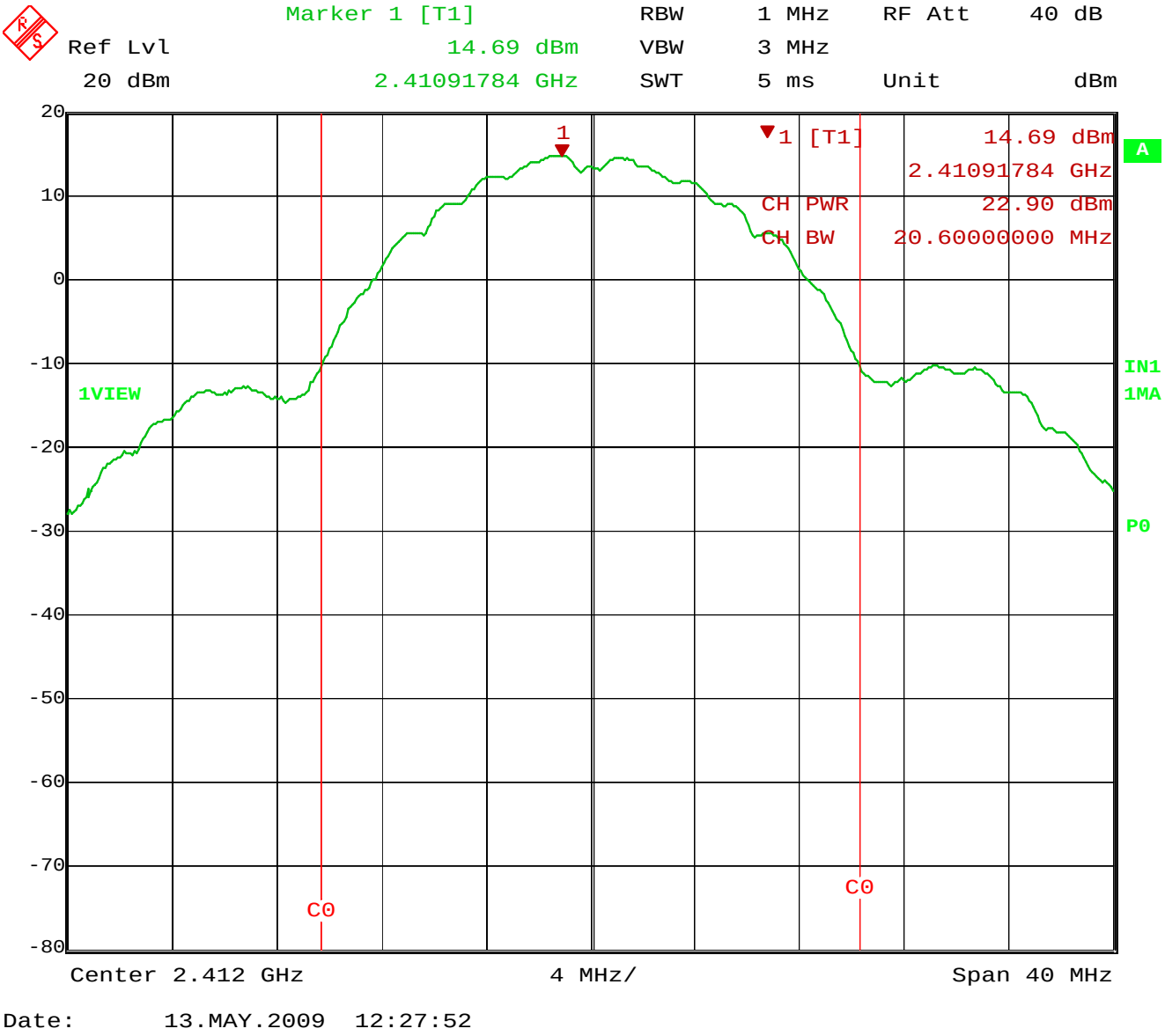

Marker 1 [T1]
RBW 1 MHz
RF Att 30 dB
Ref Lvl
12.94 dBm
VBW 3 MHz
20 dBm
2.46263226 GHz
SWT 5 ms
Unit dBm
1 [T1]
12.94 dBm
2.46263226 GHz
CH PWR 21.00 dBm
CH BW 20.76000000 MHz
A
IN1
1MA
1VIEW
C0
C0
Center 2.464 GHz
3.5 MHz/
Span 35 MHz
Date: 13.MAY.2009 11:19:37

Antenna 2

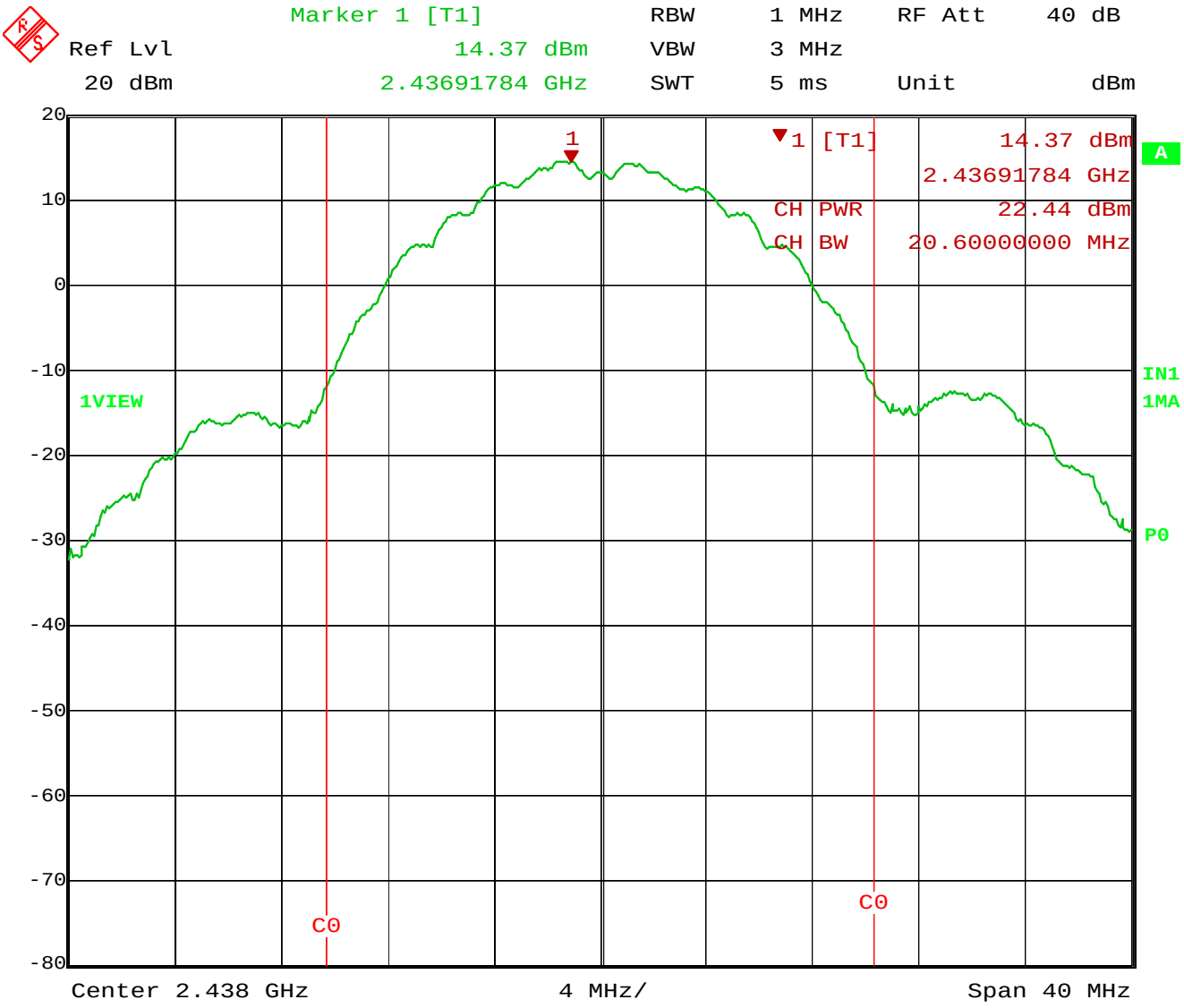
26dB Bandwidth



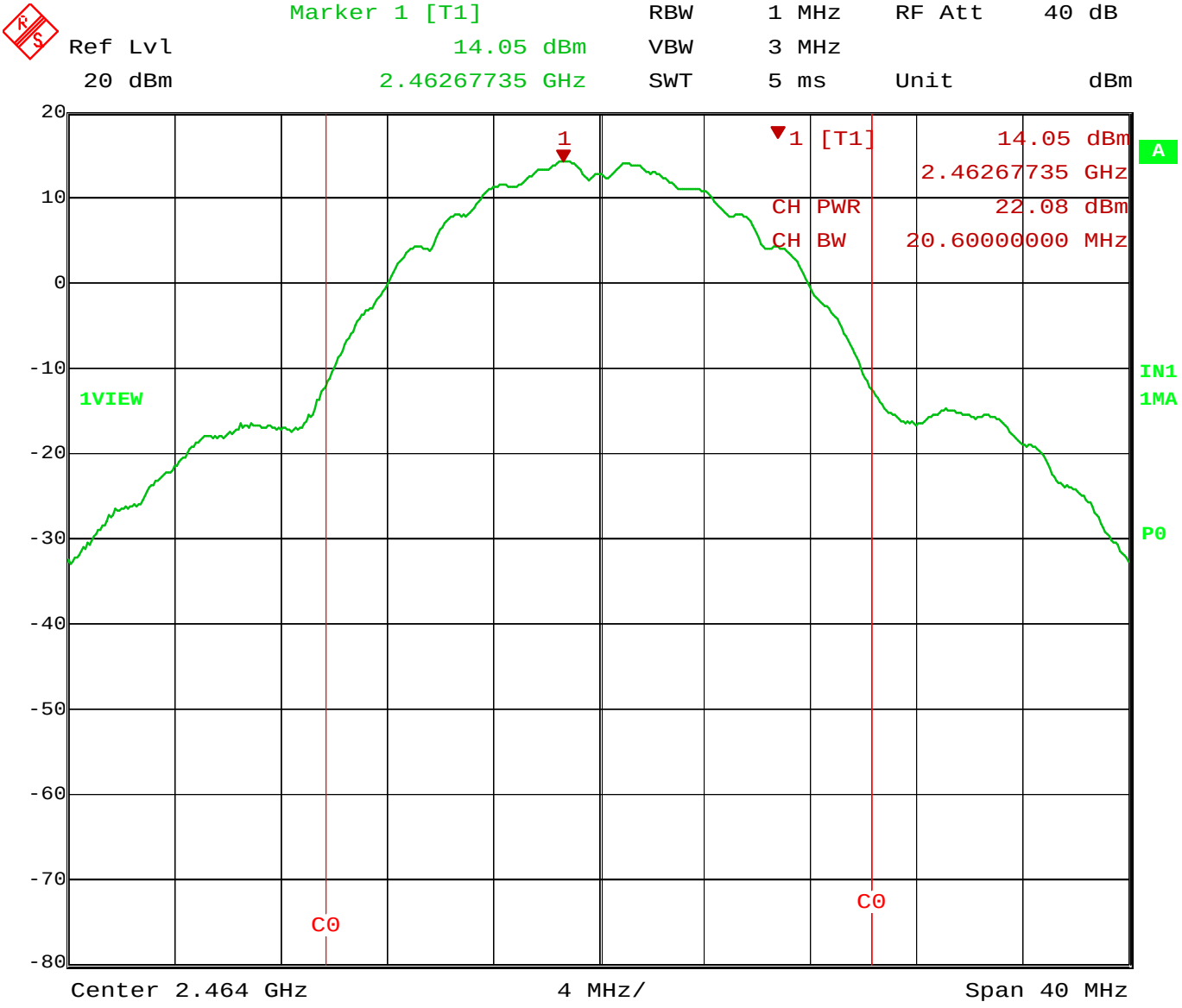
Channel L


Marker 1 [T1]
RBW 1 MHz
RF Att 40 dB
Ref Lvl
14.69 dBm
VBW 3 MHz
20 dBm
2.41091784 GHz
SWT 5 ms
Unit dBm
1 [T1]
14.69 dBm
2.41091784 GHz
CH PWR 22.90 dBm
CH BW 20.60000000 MHz
A
IN1
1MA
P0
1VIEW
C0
C0
Center 2.412 GHz
4 MHz/
Span 40 MHz
Date: 13.MAY.2009 12:27:52

Channel M


Marker 1 [T1]
RBW 1 MHz
RF Att 40 dB
Ref Lvl
14.37 dBm
VBW 3 MHz
20 dBm
2.43691784 GHz
SWT 5 ms
Unit dBm
1
1 [T1]
14.37 dBm
2.43691784 GHz
CH PWR 22.44 dBm
CH BW 20.60000000 MHz
A
1VIEW
IN1
1MA
P0
C0
C0
Center 2.438 GHz
4 MHz/
Span 40 MHz
Date: 13.MAY.2009 12:26:01

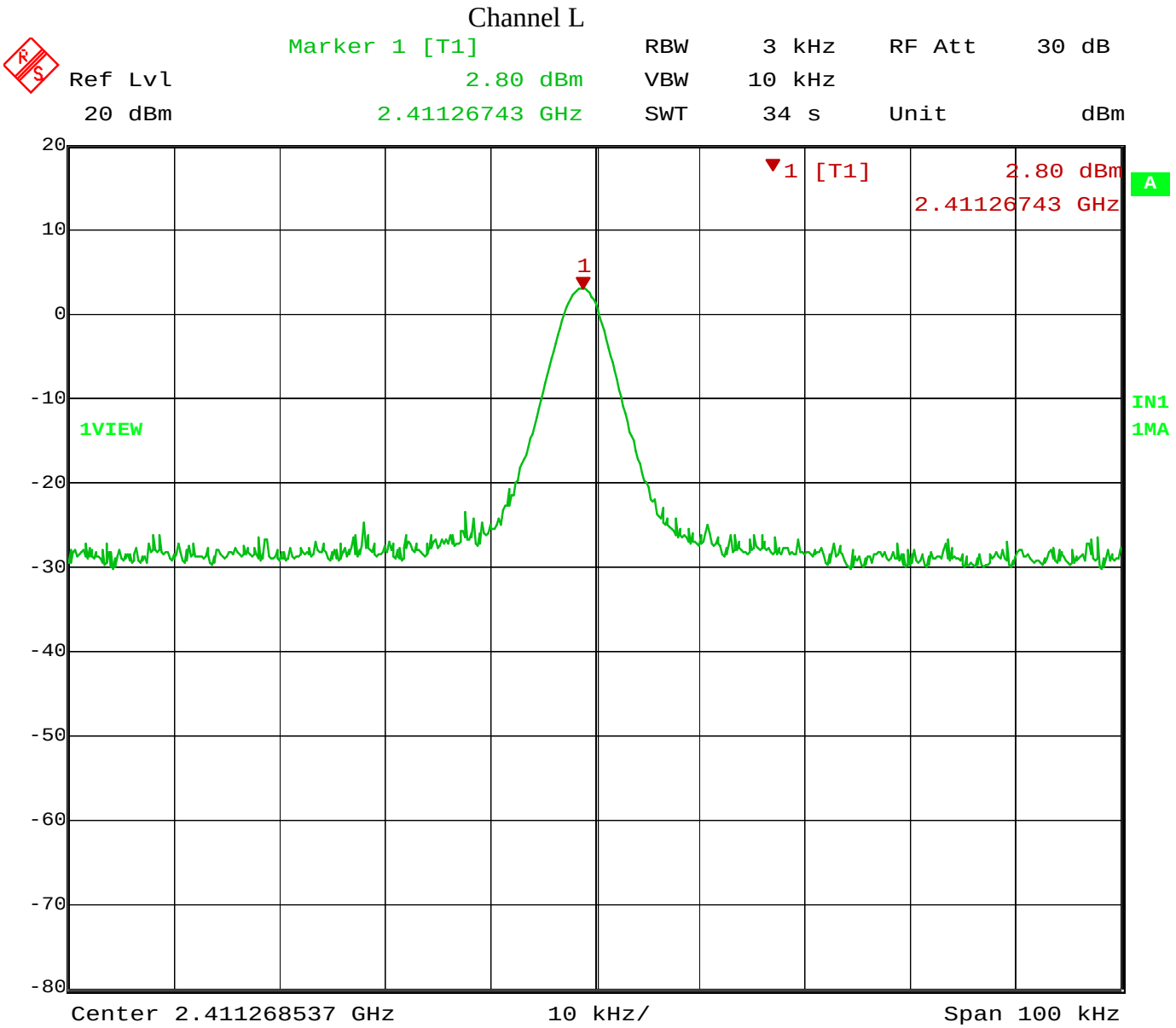
Channel H


Marker 1 [T1]
RBW 1 MHz
RF Att 40 dB
Ref Lvl
14.05 dBm
VBW 3 MHz
20 dBm
2.46267735 GHz
SWT 5 ms
Unit dBm
1 [T1]
14.05 dBm
2.46267735 GHz
CH PWR 22.08 dBm
CH BW 20.60000000 MHz
A
IN1
1MA
P0
1VIEW
C0
C0
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.464 GHz
4 MHz/
Span 40 MHz
Date: 13.MAY.2009 12:26:44

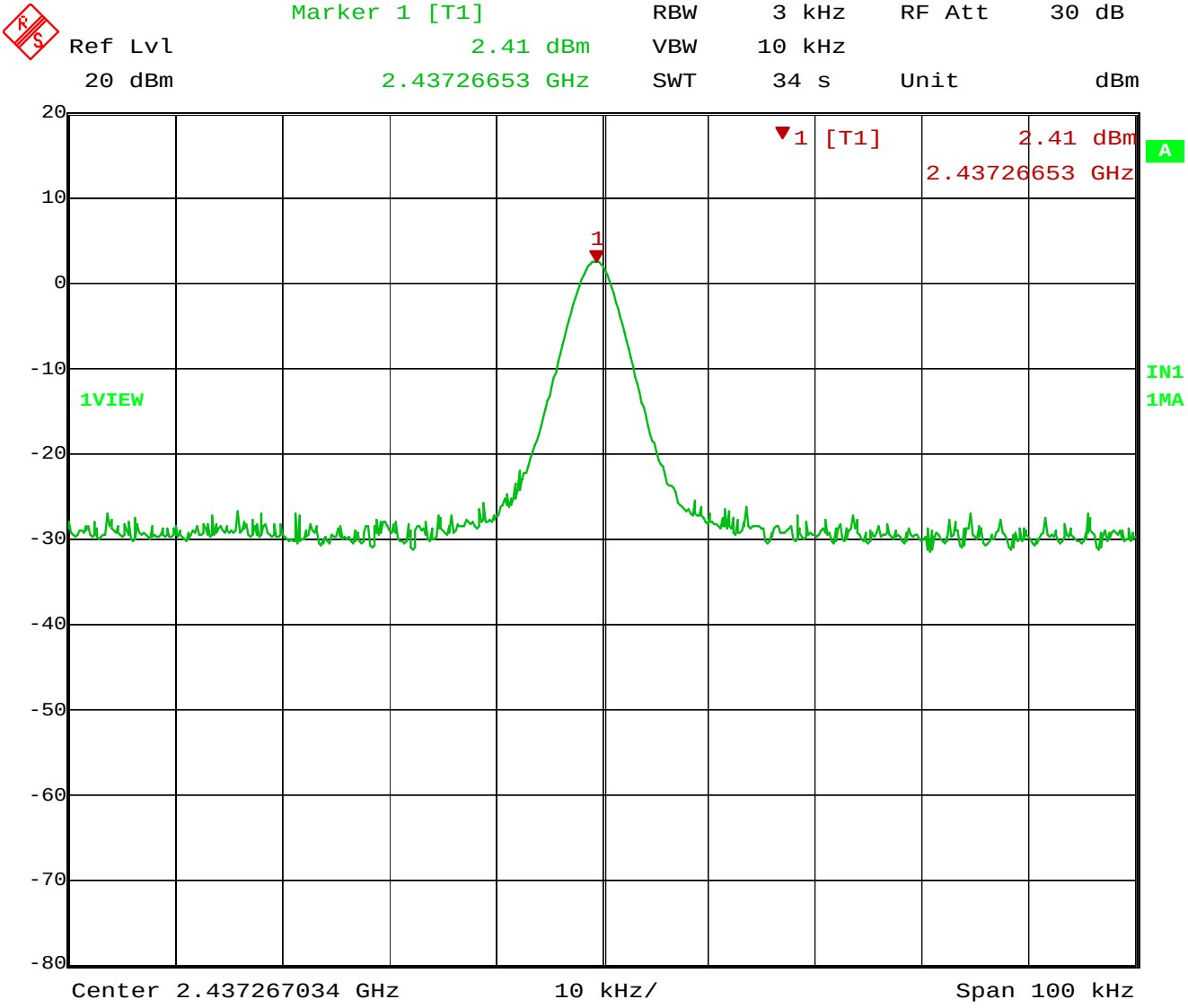
3. Power spectrum density

Antenna 1

Channel L

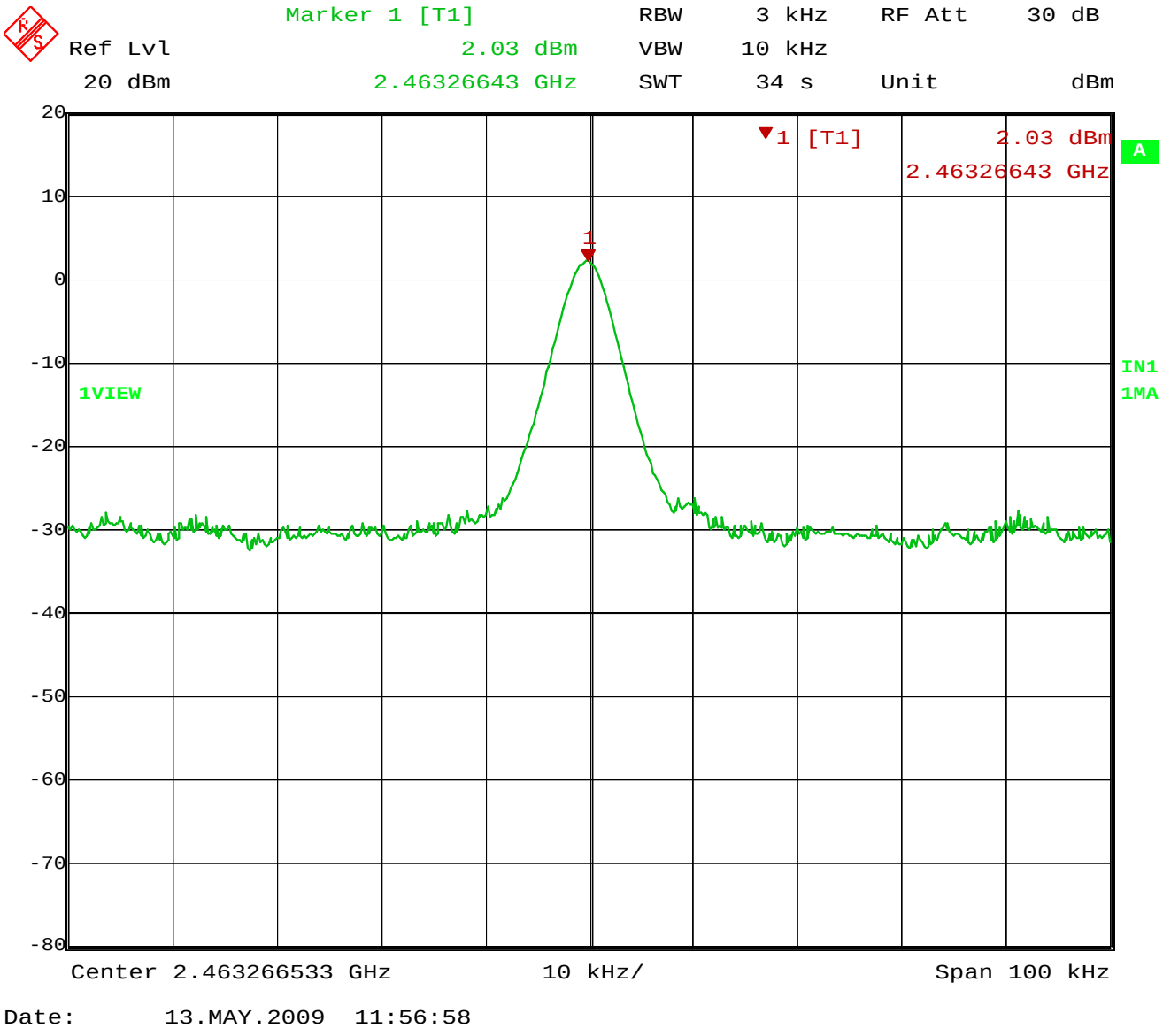


Channel M



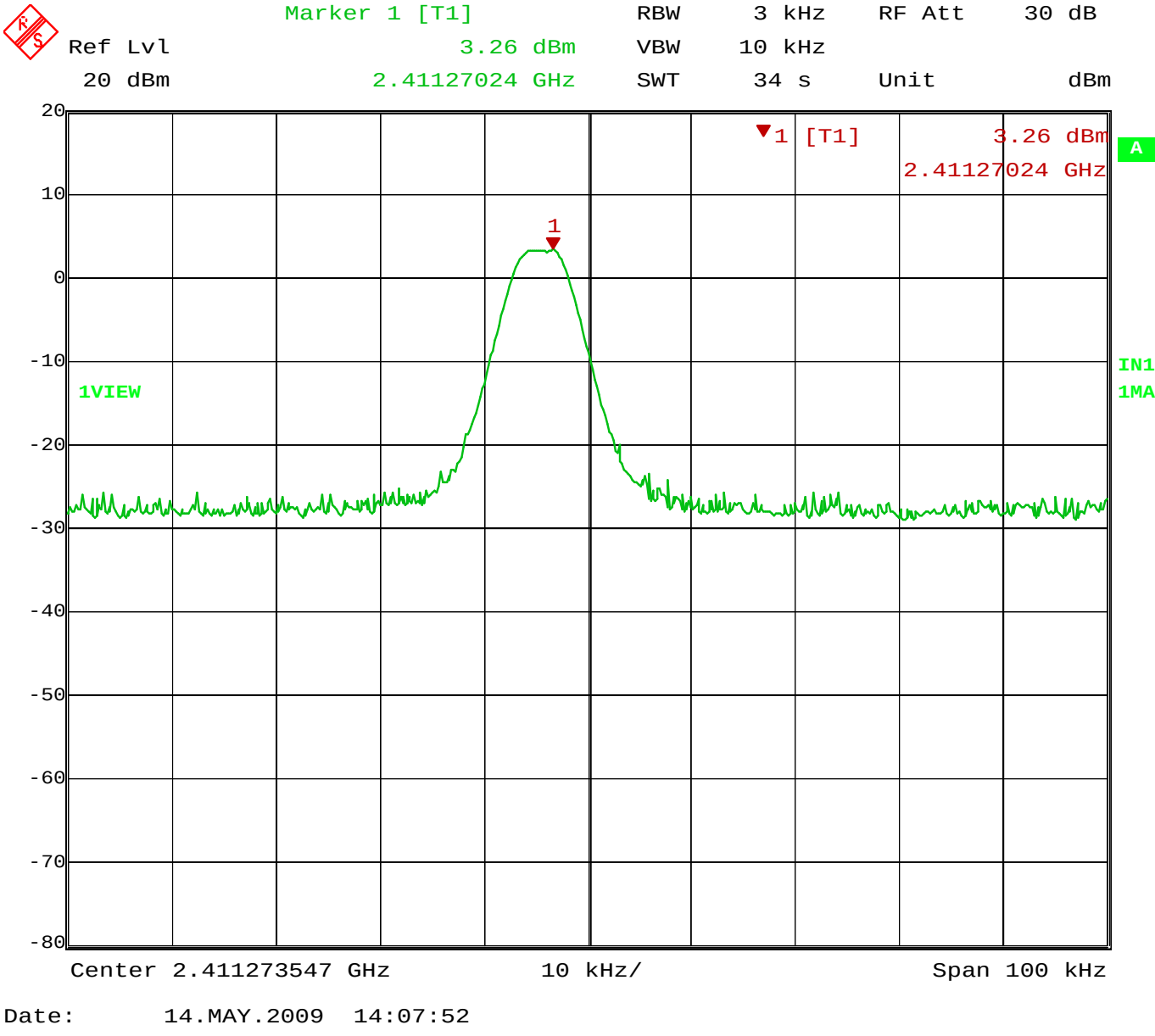
Date: 13.MAY.2009 11:53:48

Channel H

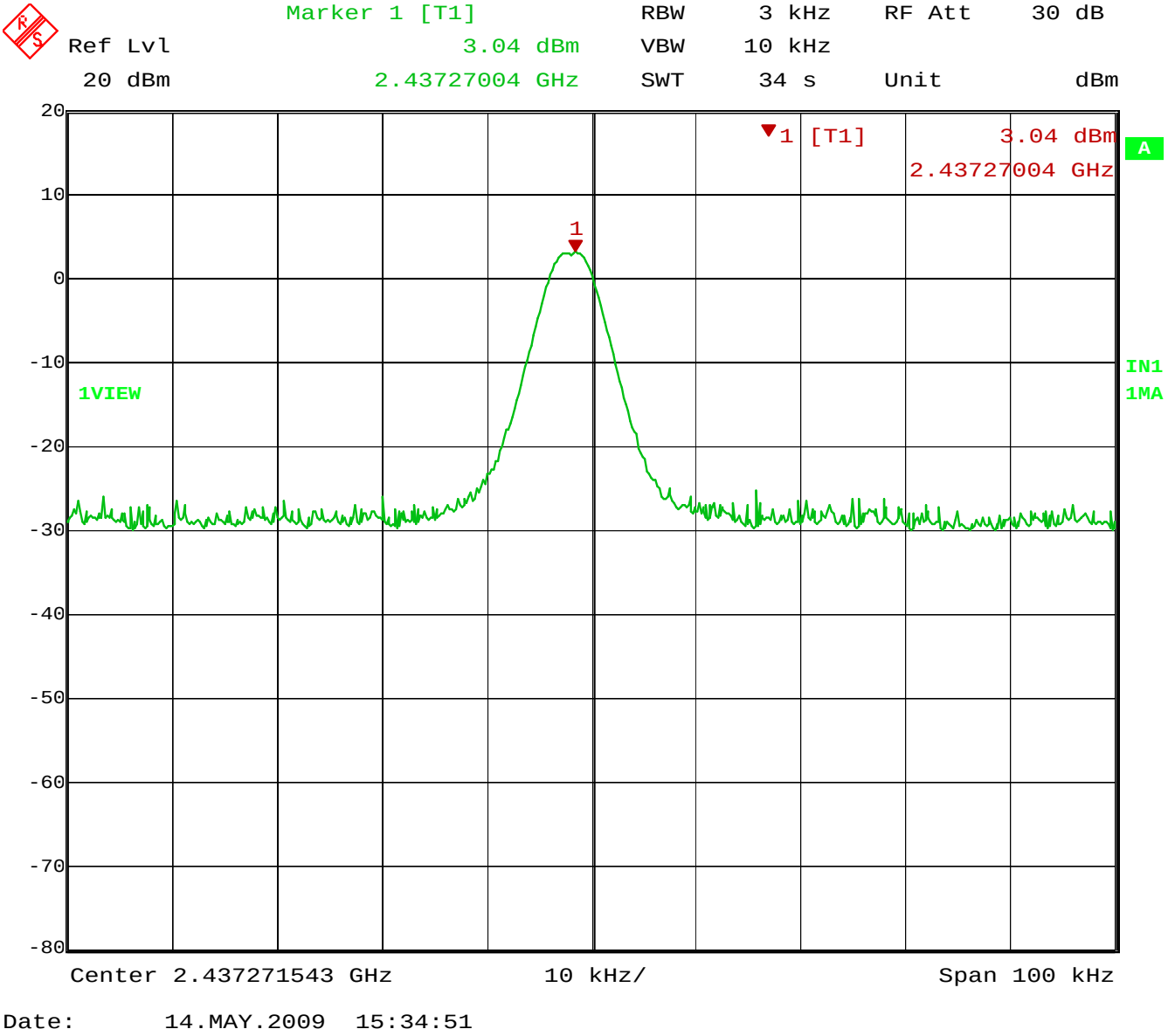

Marker 1 [T1]
RBW 3 kHz
RF Att 30 dB
Ref Lvl
2.03 dBm
VBW 10 kHz
20 dBm
2.46326643 GHz
SWT 34 s
Unit dBm
1 [T1]
2.03 dBm
2.46326643 GHz
A
IN1
1MA
1VIEW
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.463266533 GHz
10 kHz/
Span 100 kHz
Date: 13.MAY.2009 11:56:58

Antenna 2

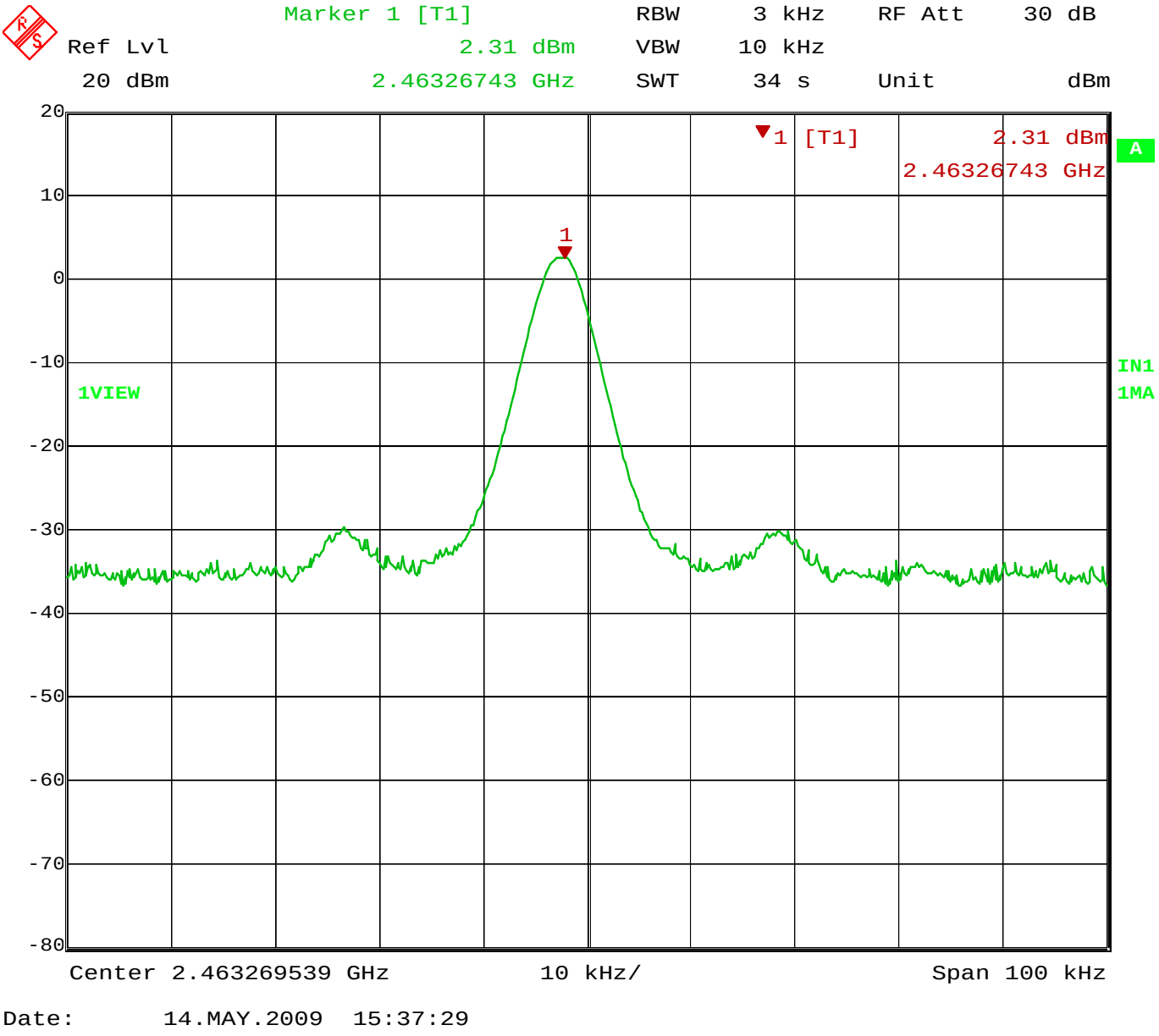
Channel L



Channel M


Marker 1 [T1]
RBW 3 kHz
RF Att 30 dB
Ref Lvl
3.04 dBm
VBW 10 kHz
20 dBm
2.43727004 GHz
SWT 34 s
Unit dBm
1 [T1]
3.04 dBm
2.43727004 GHz
A
1VIEW
IN1
1MA
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.437271543 GHz
10 kHz/
Span 100 kHz
Date: 14.MAY.2009 15:34:51

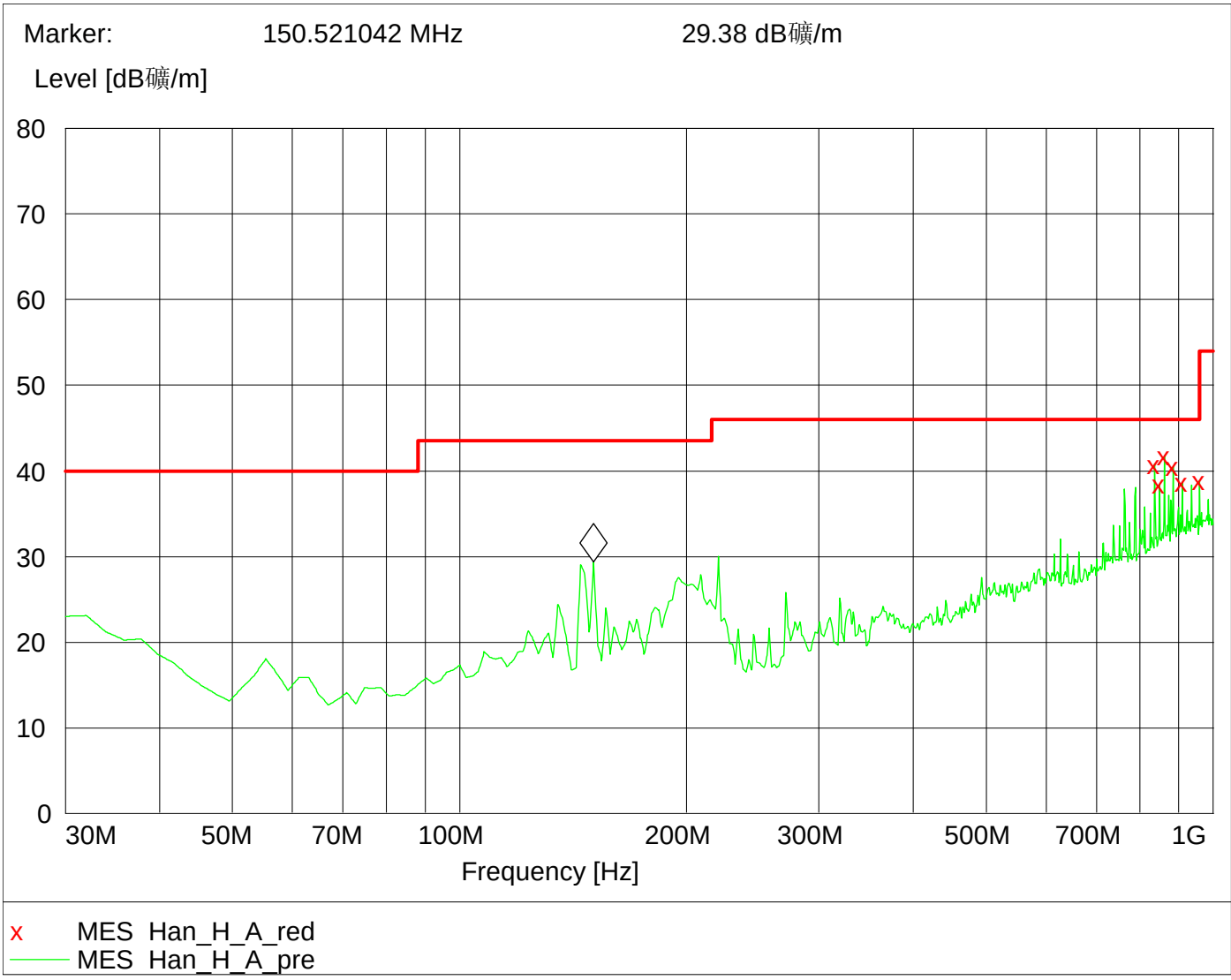
Channel H


Marker 1 [T1]
RBW 3 kHz
RF Att 30 dB
Ref Lvl
2.31 dBm
VBW 10 kHz
20 dBm
2.46326743 GHz
SWT 34 s
Unit dBm
1 [T1]
2.31 dBm
2.46326743 GHz
A
1VIEW
IN1
1MA
Center 2.463269539 GHz
10 kHz/
Span 100 kHz
Date: 14.MAY.2009 15:37:29

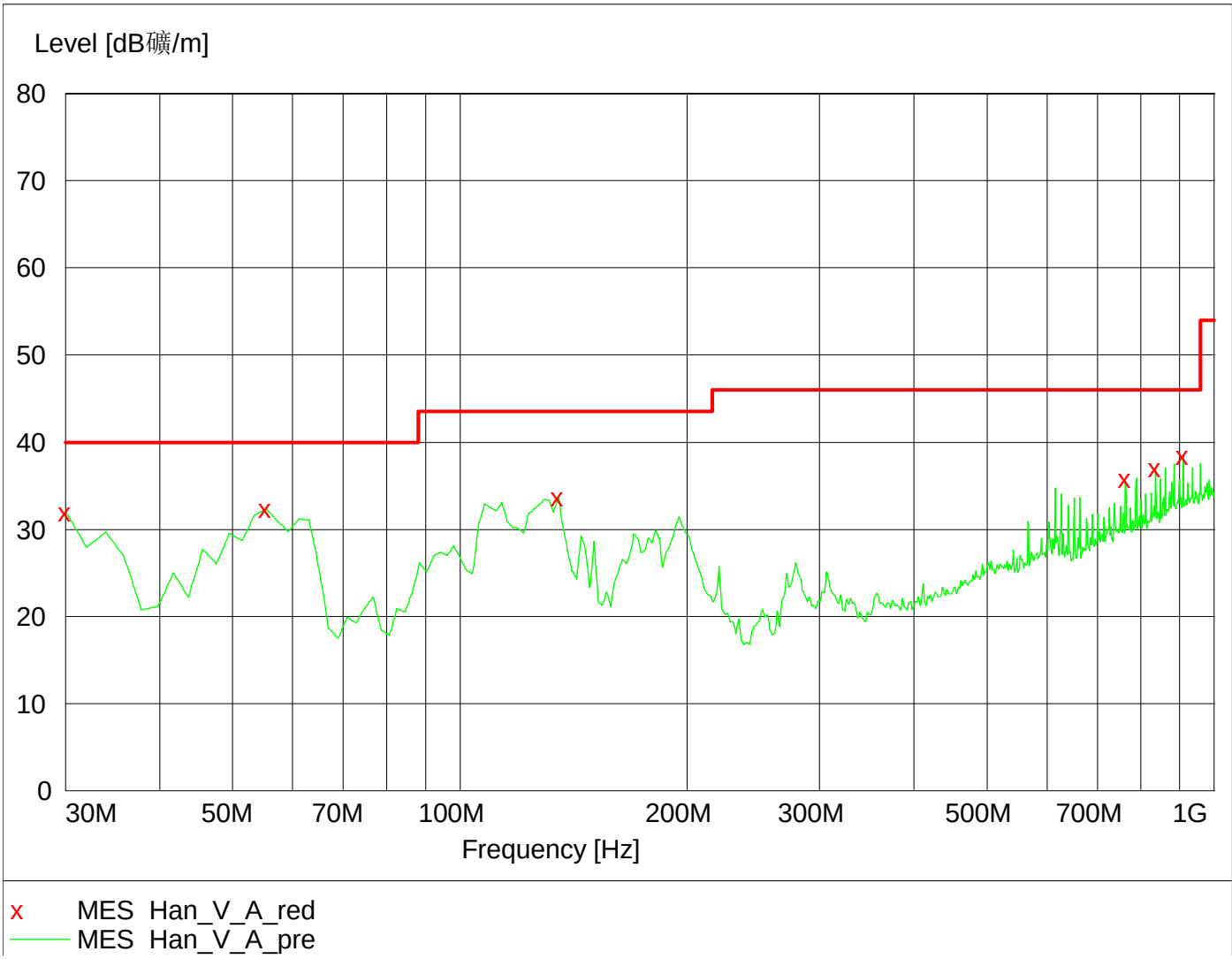
4. Spurious Emission

Antenna 1

Horizontal

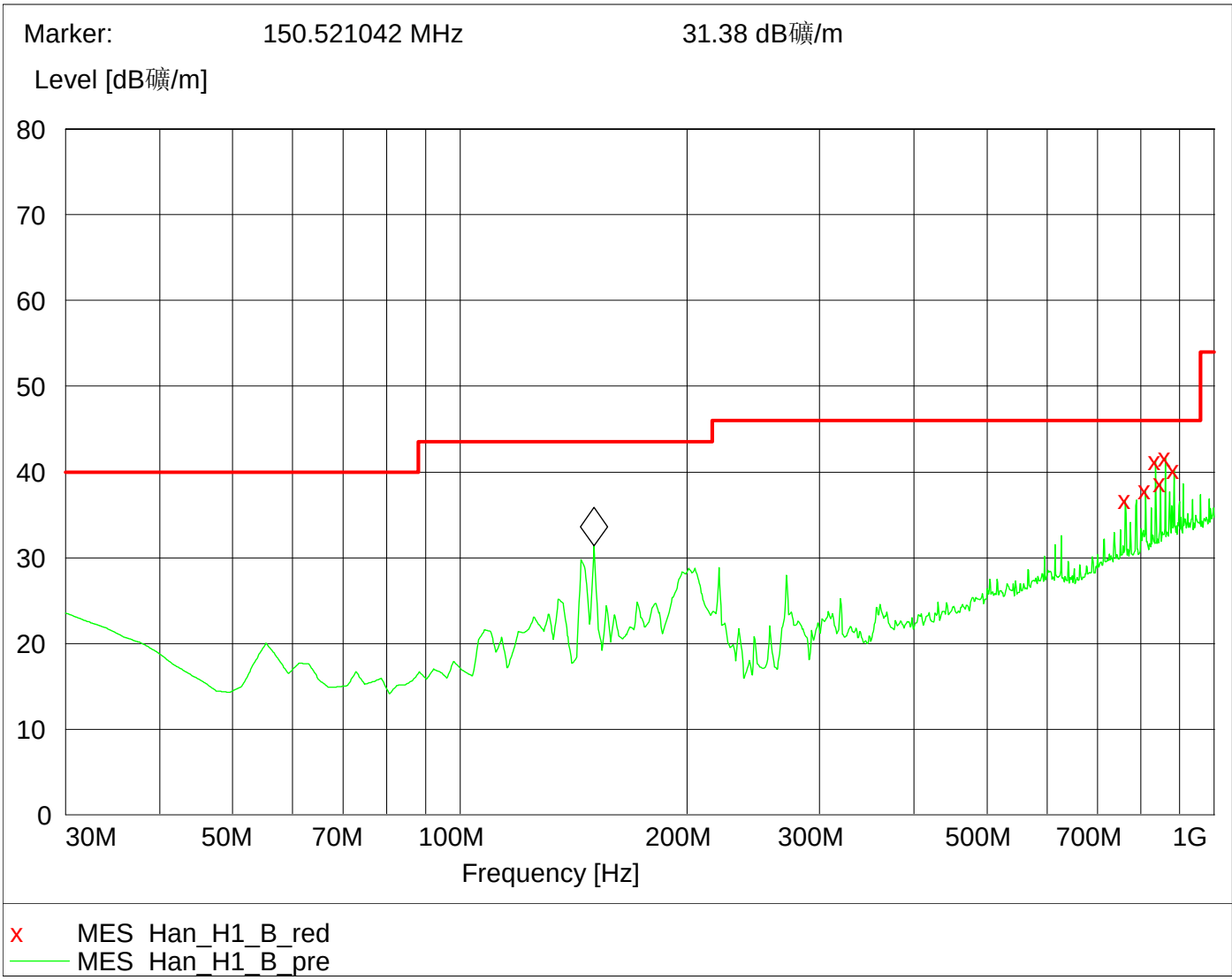


Vertical

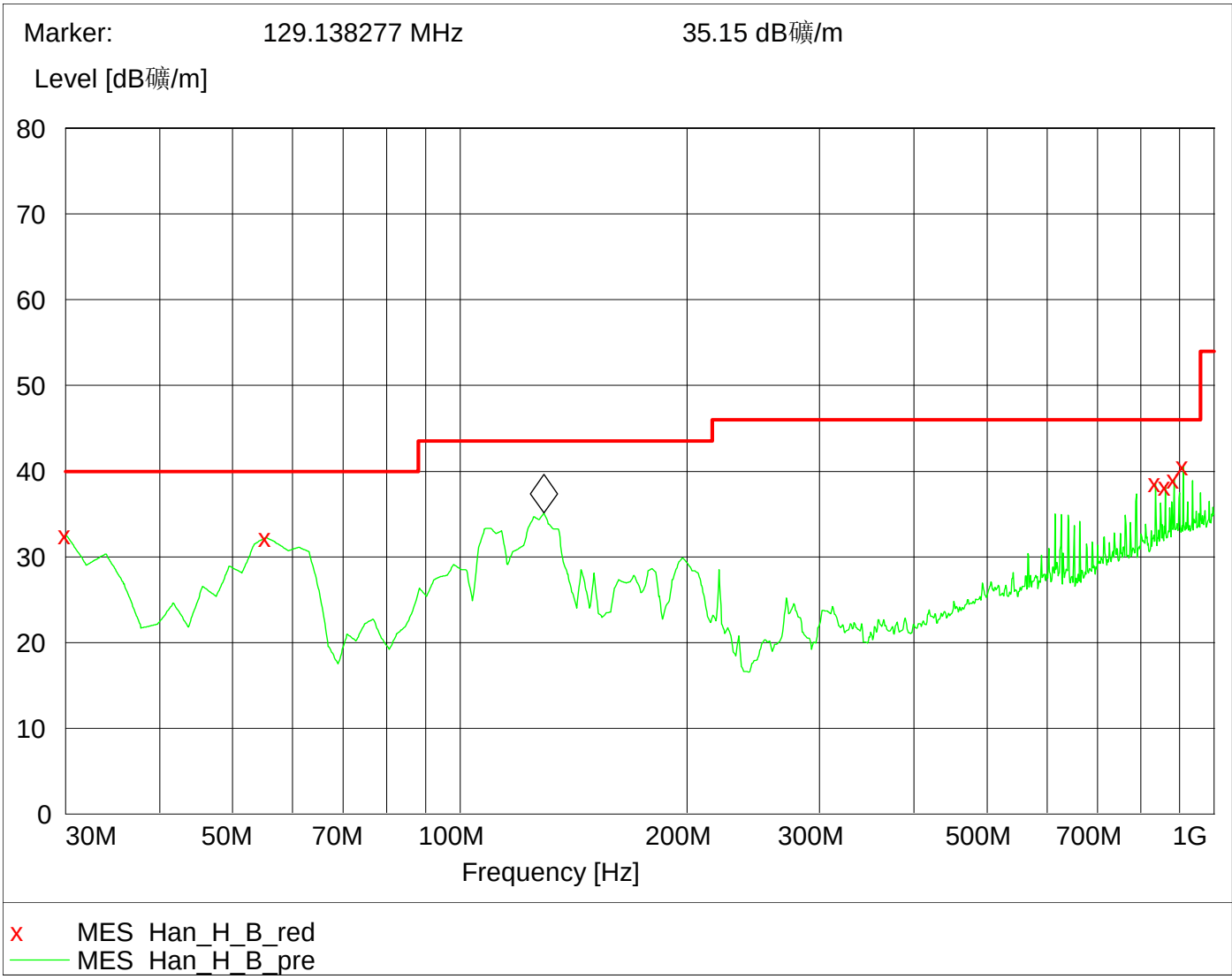

Level [dBµV/m]
80
70
60
50
40
30
20
10
0
30M
50M
70M
100M
200M
300M
500M
700M
1G
Frequency [Hz]
x MES Han_V_A_red
MES Han_V_A_pre

Antenna 2

Horizontal



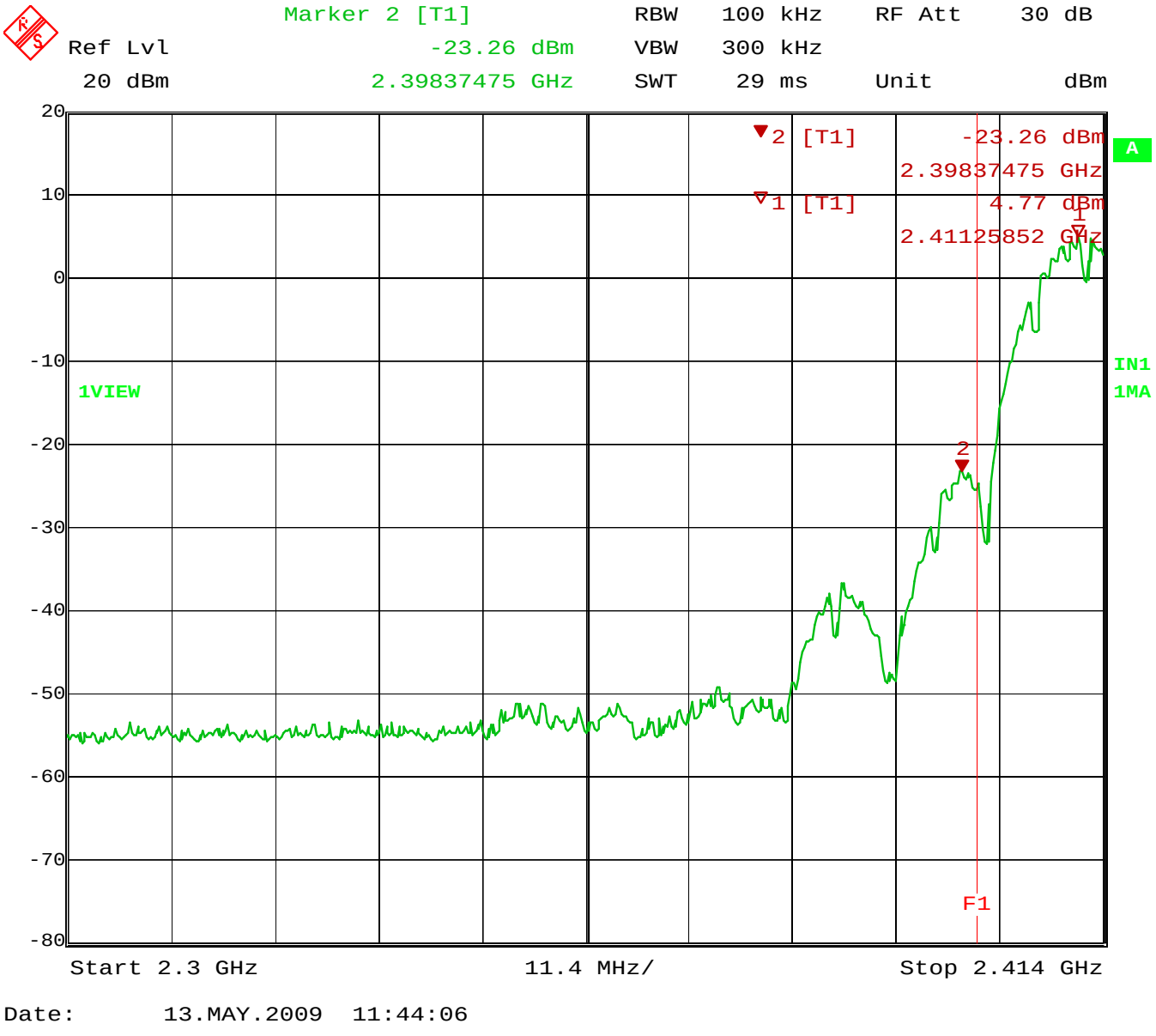
Vertical

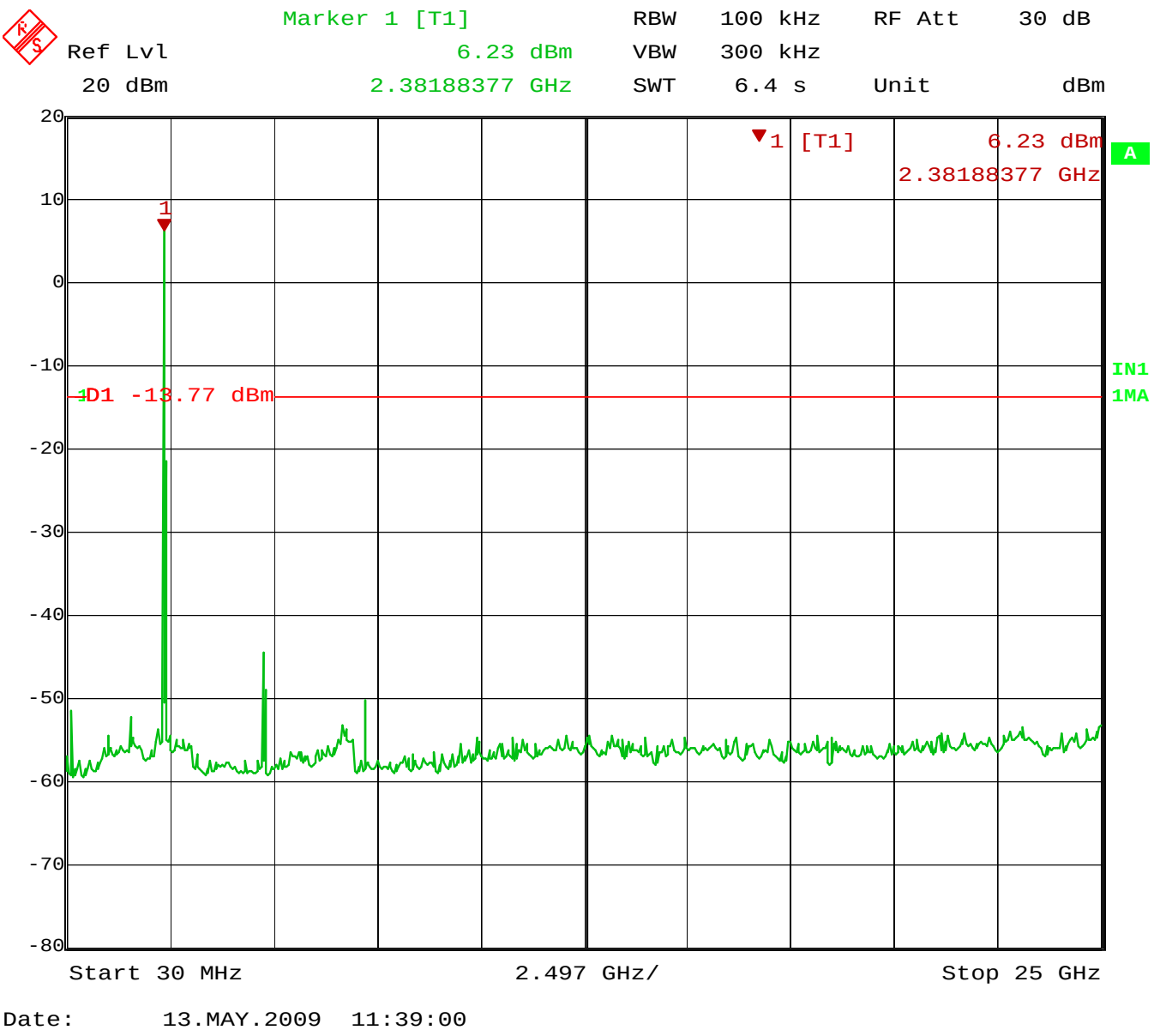

Marker:
129.138277 MHz
35.15 dBµV/m
Level [dBµV/m]
80
70
60
50
40
30
20
10
0
30M
50M
70M
100M
200M
300M
500M
700M
1G
Frequency [Hz]
MES Han_H_B_red
MES Han_H_B_pre

5. Emission outside the frequency band

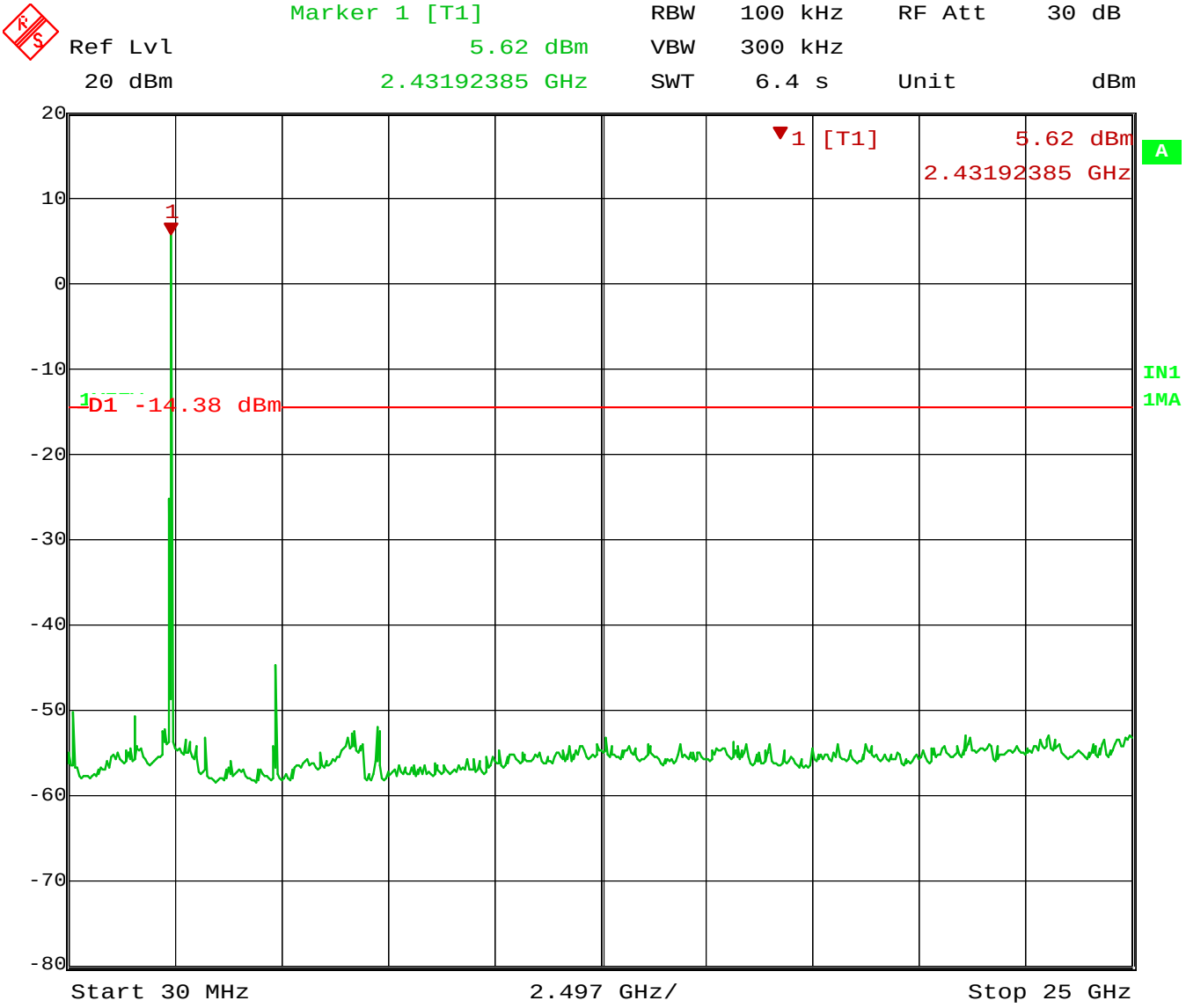
Antenna 1

Channel L

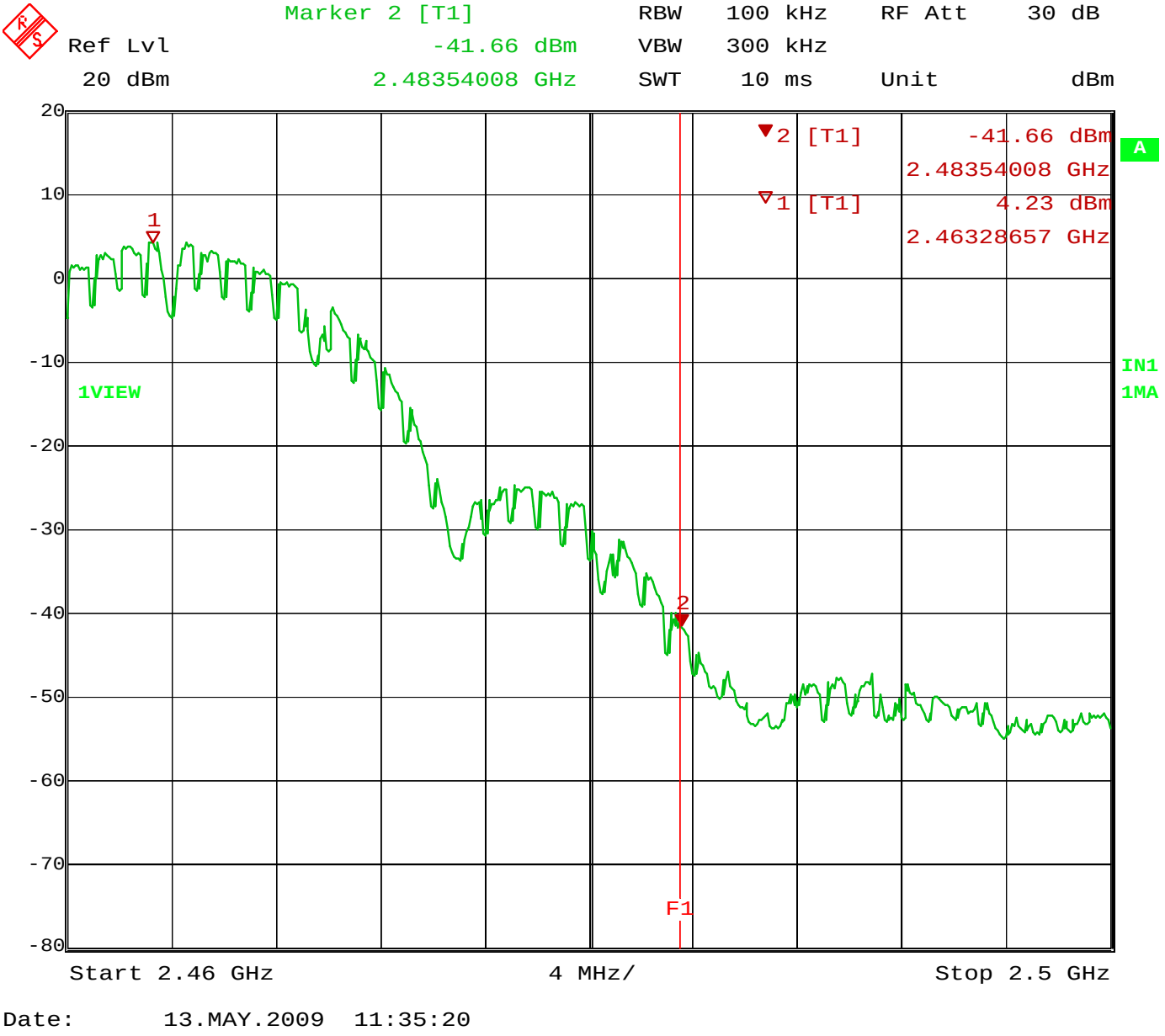


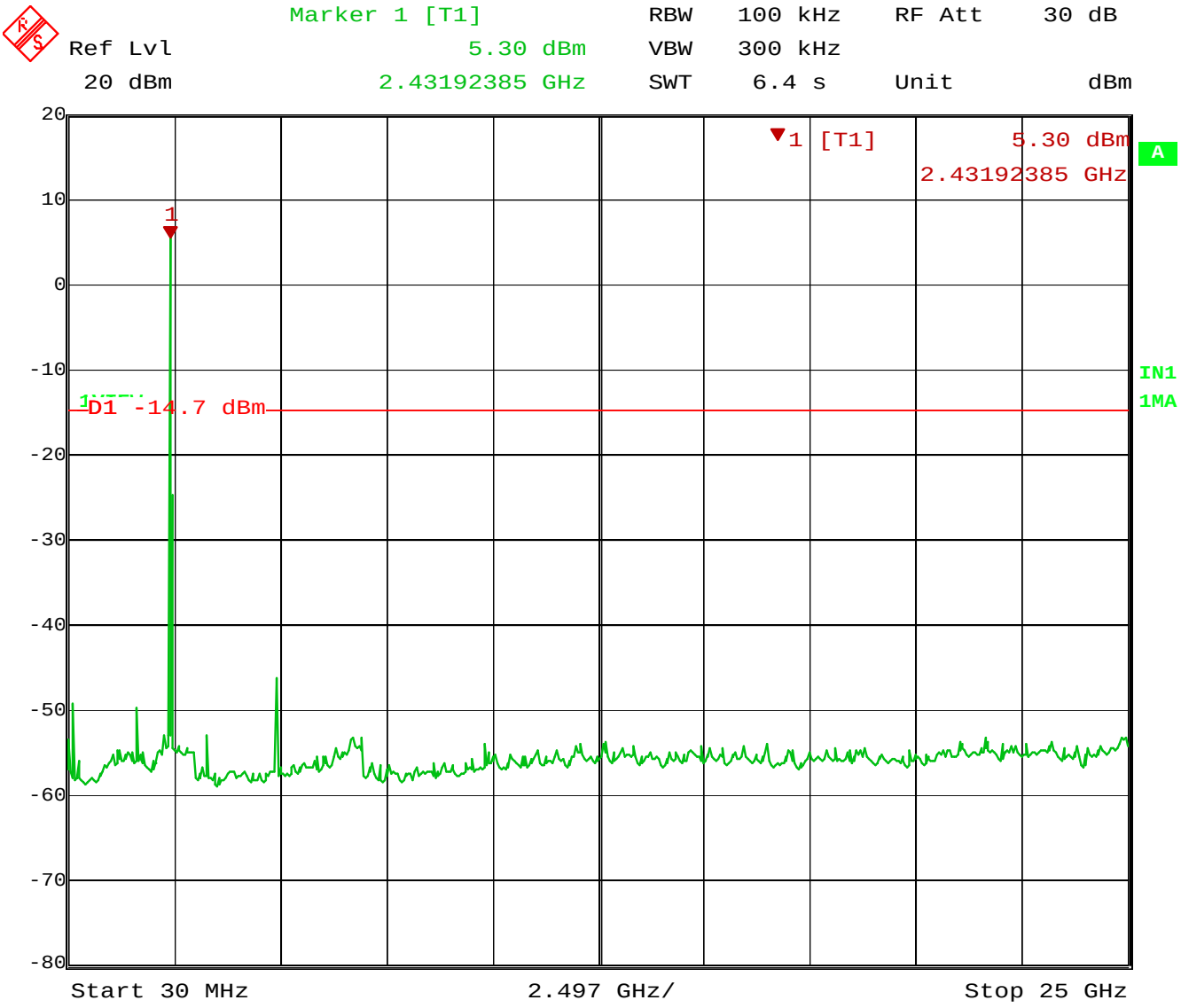

Marker 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
6.23 dBm
VBW 300 kHz
20 dBm
2.38188377 GHz
SWT 6.4 s
Unit dBm
1 [T1]
6.23 dBm
2.38188377 GHz
A
D1 -13.77 dBm
IN1
1MA
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Date: 13.MAY.2009 11:39:00

Channel M


Marker 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
5.62 dBm
VBW 300 kHz
20 dBm
2.43192385 GHz
SWT 6.4 s
Unit dBm
1 [T1]
5.62 dBm
2.43192385 GHz
A
D1 -14.38 dBm
IN1
1MA
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Date: 13.MAY.2009 11:48:44

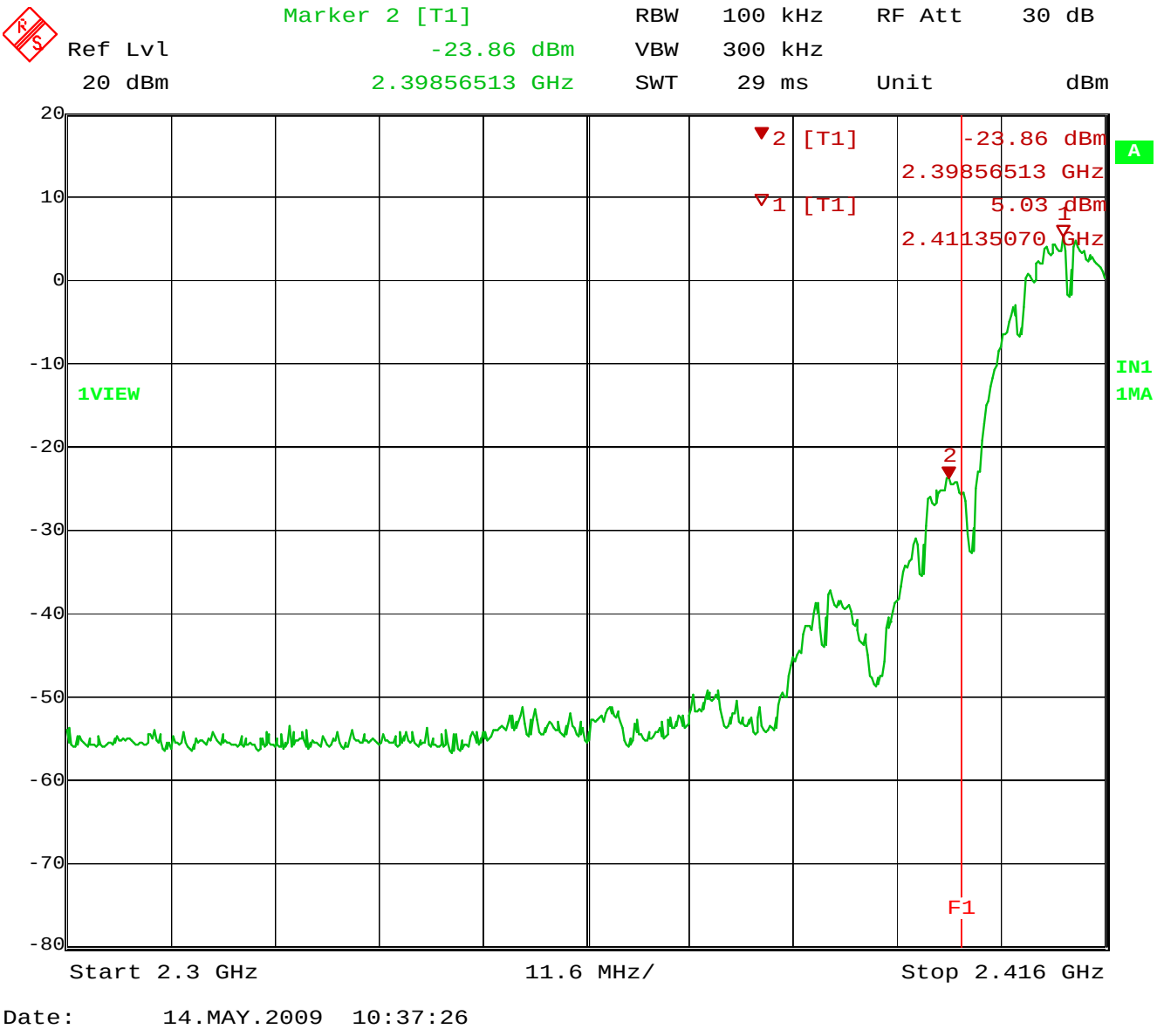
Channel H

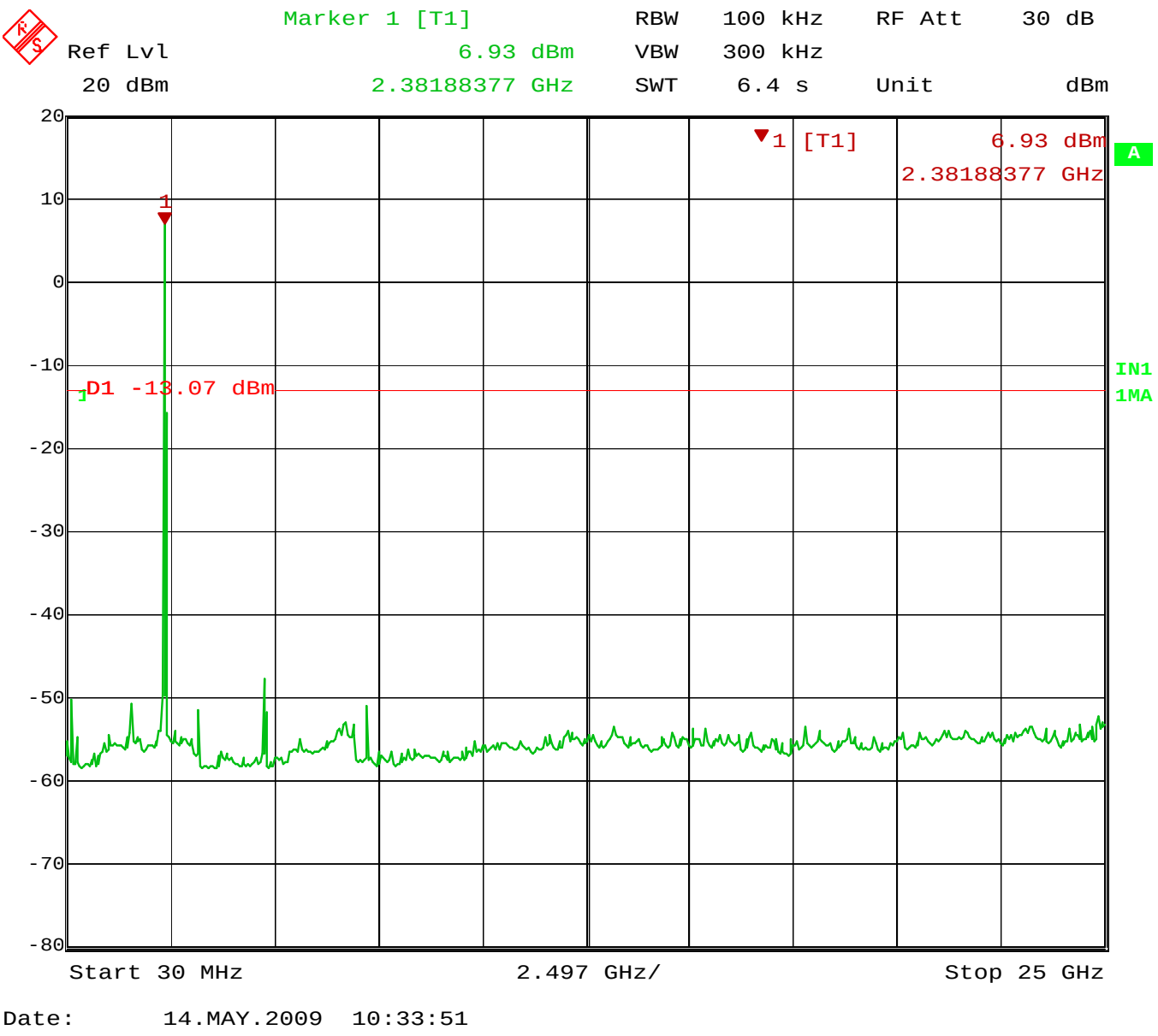

Marker 2 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
-41.66 dBm
VBW 300 kHz
20 dBm
2.48354008 GHz
SWT 10 ms
Unit dBm
2 [T1]
-41.66 dBm
2.48354008 GHz
1 [T1]
4.23 dBm
2.46328657 GHz
A
IN1
1MA
1VIEW
F1
Start 2.46 GHz
4 MHz/
Stop 2.5 GHz
Date: 13.MAY.2009 11:35:20


Marker 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
5.30 dBm
VBW 300 kHz
20 dBm
2.43192385 GHz
SWT 6.4 s
Unit dBm
1 [T1]
5.30 dBm
2.43192385 GHz
A
IN1
1MA
D1 -14.7 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Date: 13.MAY.2009 11:37:09

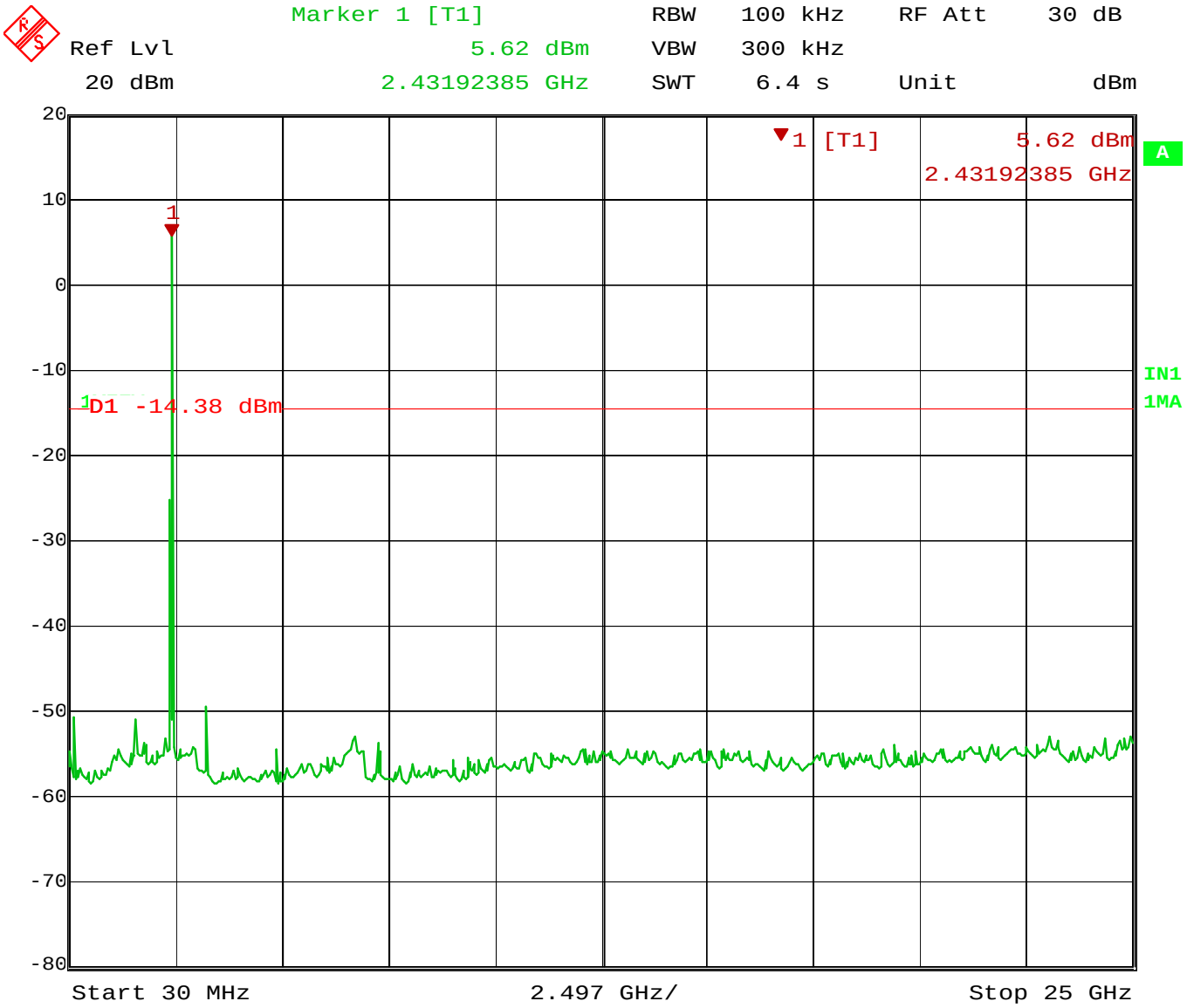
Antenna 2

Channel L

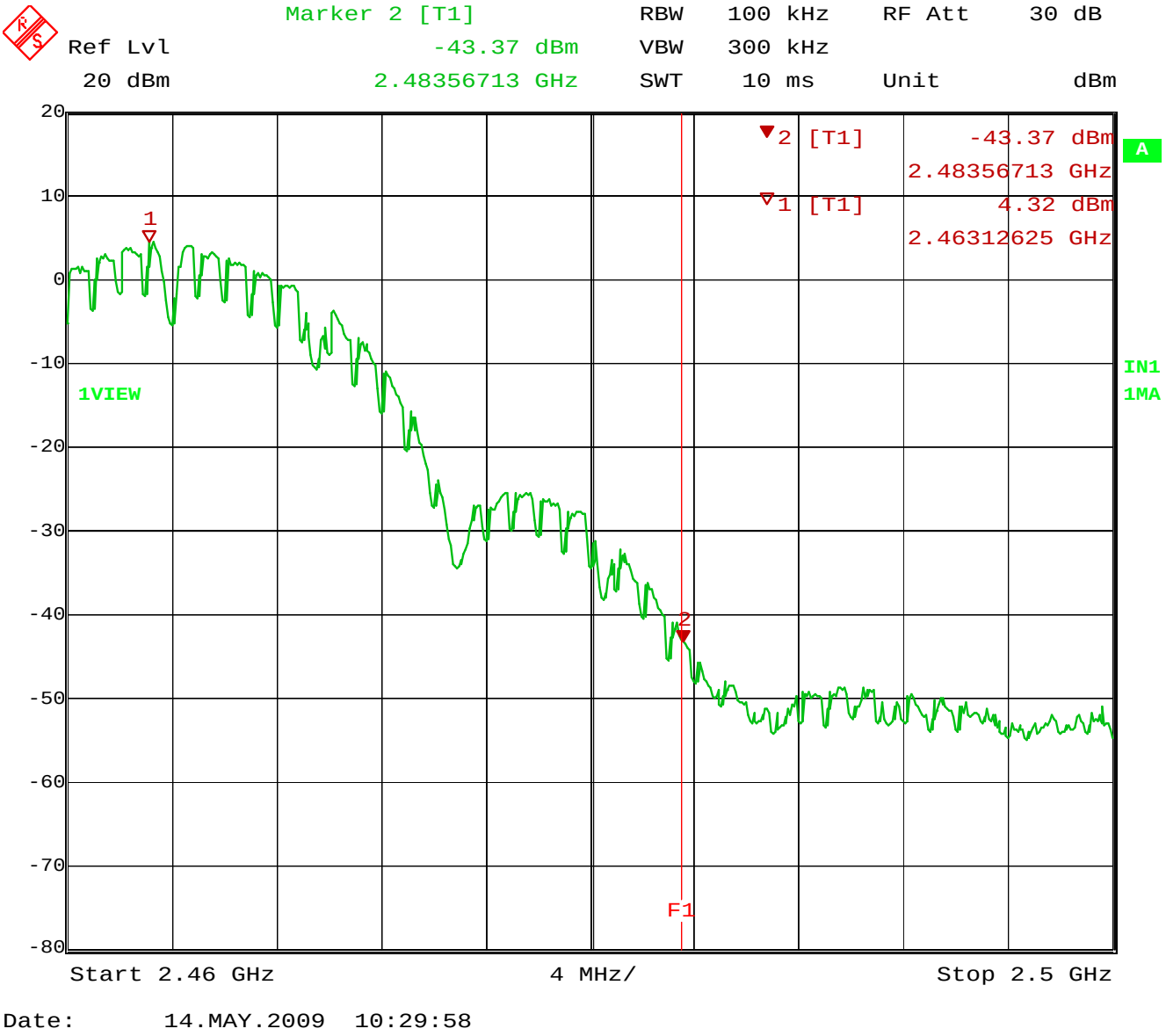


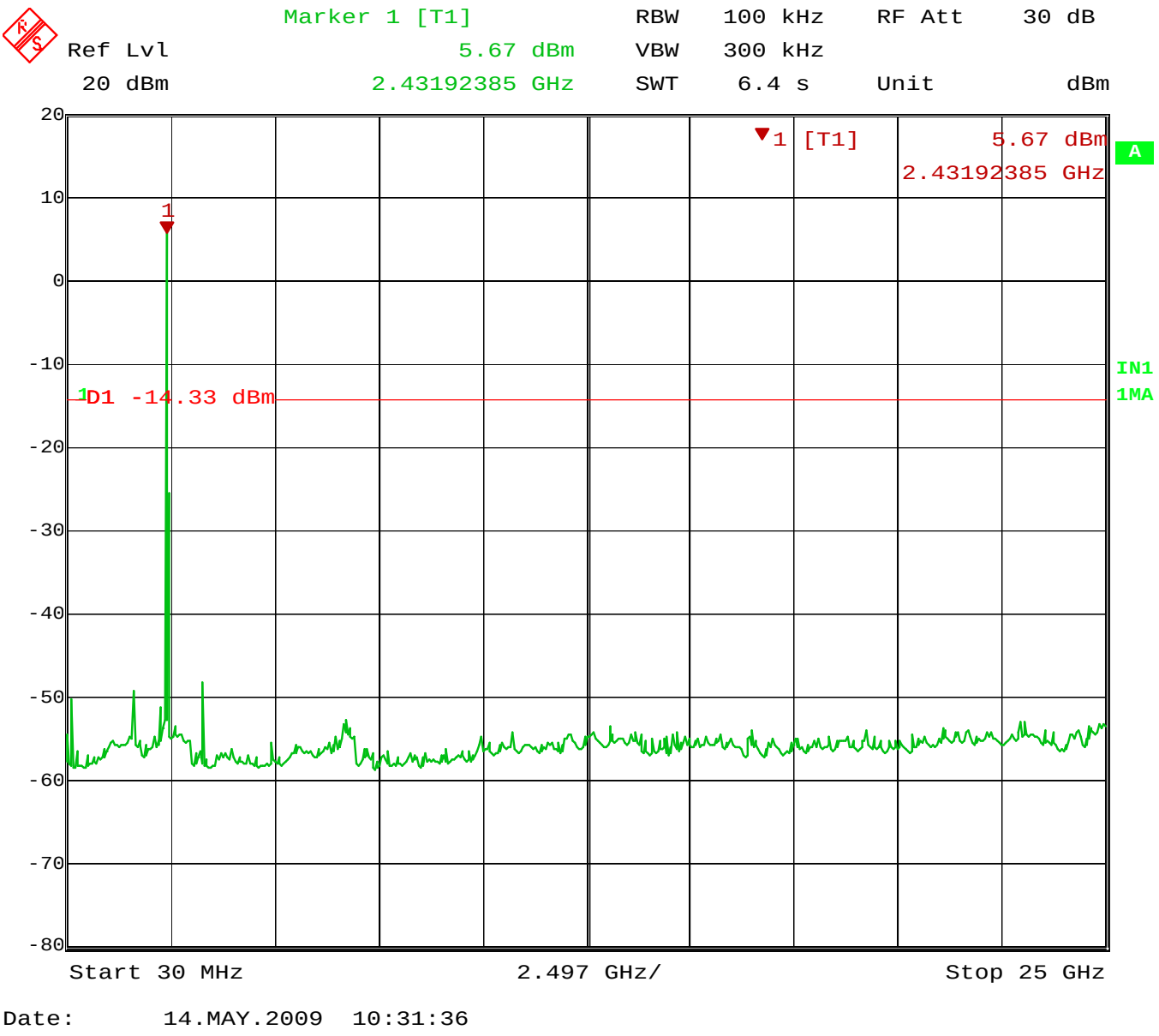

Marker 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
6.93 dBm
VBW 300 kHz
20 dBm
2.38188377 GHz
SWT 6.4 s
Unit dBm
1 [T1]
6.93 dBm
2.38188377 GHz
A
D1 -13.07 dBm
IN1
1MA
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Date: 14.MAY.2009 10:33:51

Channel M


Marker 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
5.62 dBm
VBW 300 kHz
20 dBm
2.43192385 GHz
SWT 6.4 s
Unit dBm
1 [T1]
5.62 dBm
2.43192385 GHz
A
D1 -14.38 dBm
IN1
1MA
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Date: 14.MAY.2009 10:40:21

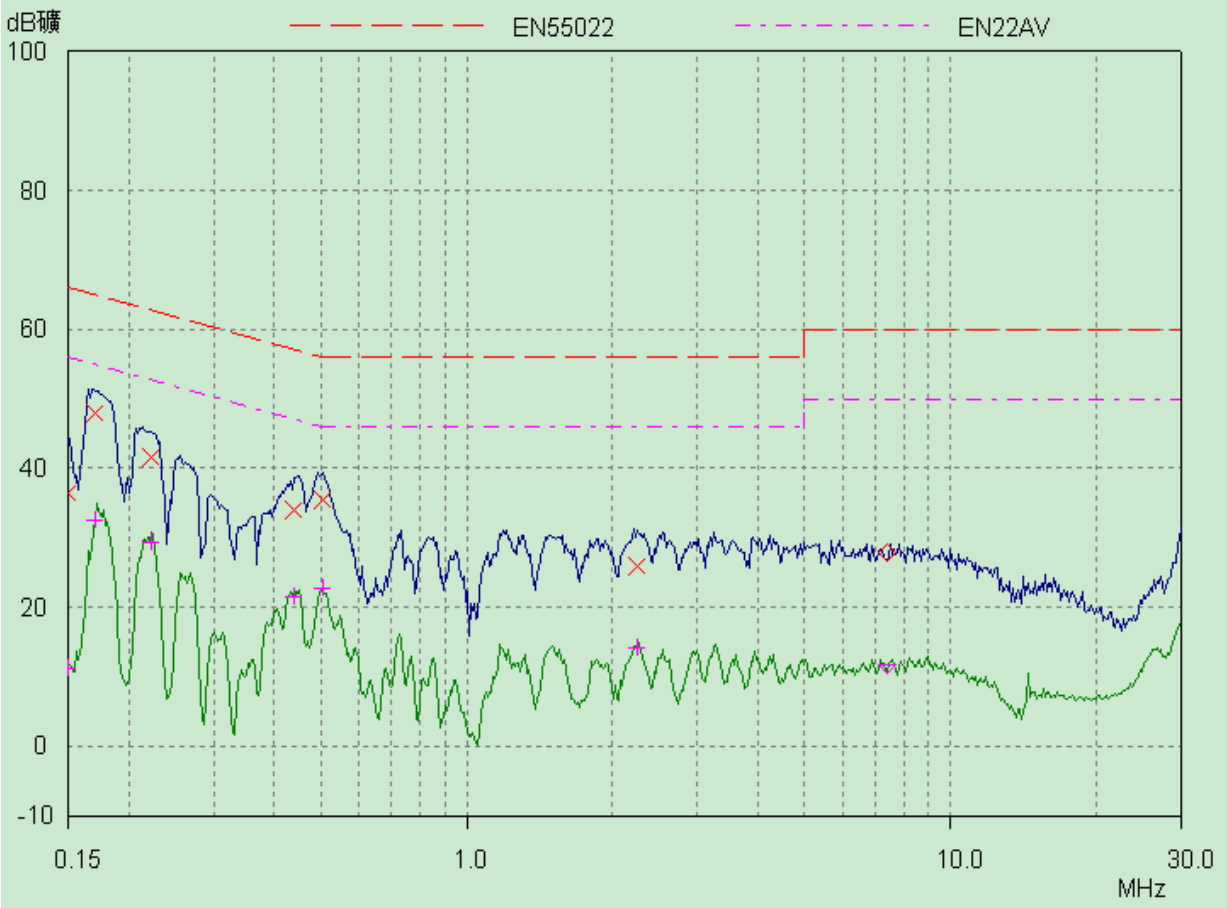
Channel H


Marker 2 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
-43.37 dBm
VBW 300 kHz
20 dBm
2.48356713 GHz
SWT 10 ms
Unit dBm
2 [T1]
-43.37 dBm
2.48356713 GHz
1 [T1]
4.32 dBm
2.46312625 GHz
A
IN1
1MA
1VIEW
F1
Start 2.46 GHz
4 MHz/
Stop 2.5 GHz
Date: 14.MAY.2009 10:29:58


Marker 1 [T1]
RBW 100 kHz
RF Att 30 dB
Ref Lvl
5.67 dBm
VBW 300 kHz
20 dBm
2.43192385 GHz
SWT 6.4 s
Unit dBm
1 [T1]
5.67 dBm
2.43192385 GHz
A
1
D1 -14.33 dBm
IN1
1MA
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Date: 14.MAY.2009 10:31:36

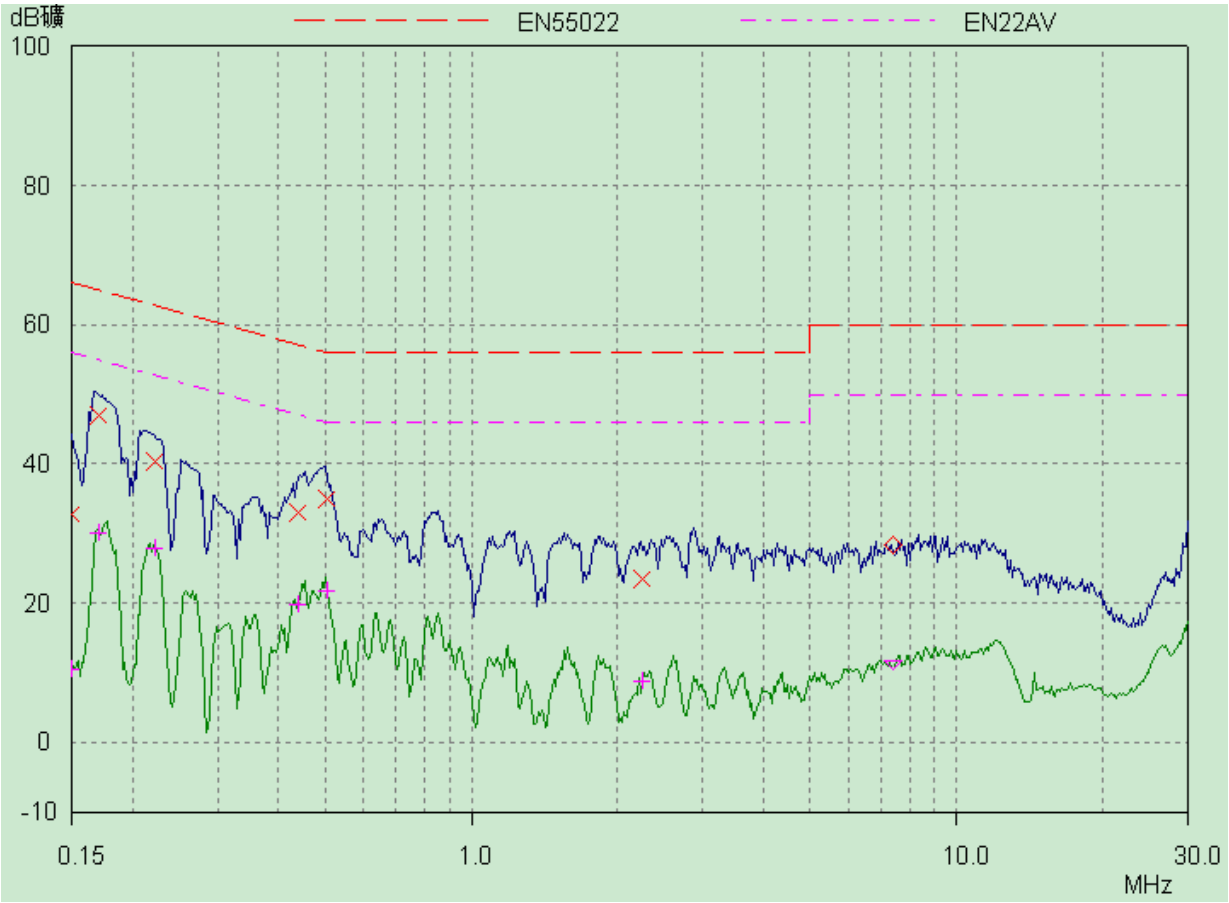
6. Conducted Emission

Power line: L



Frequency MHz	Quasi Pk dBµV	Limit dBµV	Delta dB	Phase /PE	Average dBµV	Limit dBµV	Delta dB
0.15	36.35	66.00	29.65	N /gnd	11.22	56.00	44.78
0.17043	48.06	64.94	16.88	N /gnd	32.47	54.94	22.47
0.22181	41.61	62.75	21.14	N /gnd	29.23	52.75	23.52
0.43724	33.88	57.11	23.23	N /gnd	21.46	47.11	25.65
0.50281	35.55	56.00	20.45	N /gnd	22.83	46.00	23.17
2.23776	25.93	56.00	30.07	N /gnd	14.24	46.00	31.76

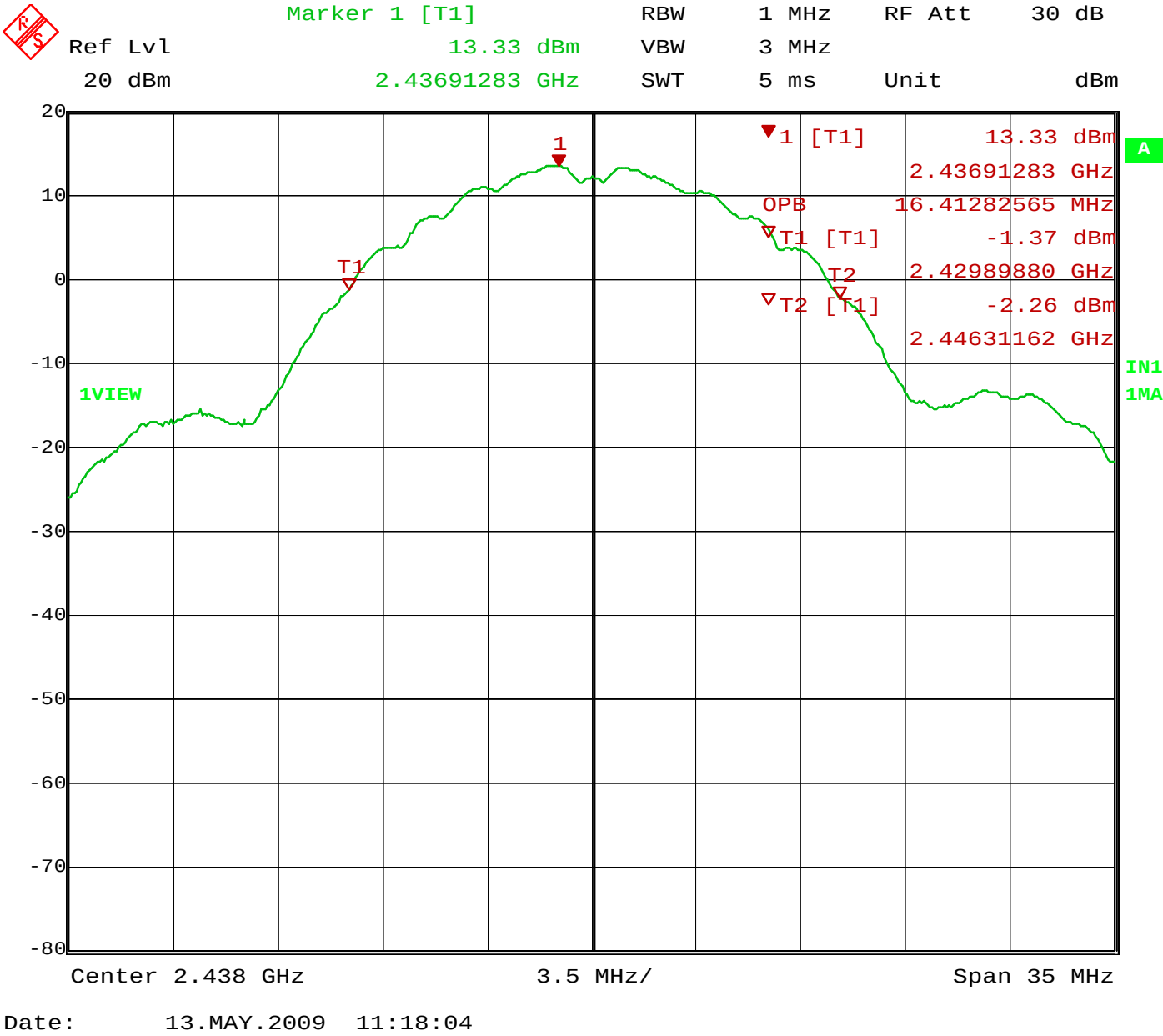
Power line: N



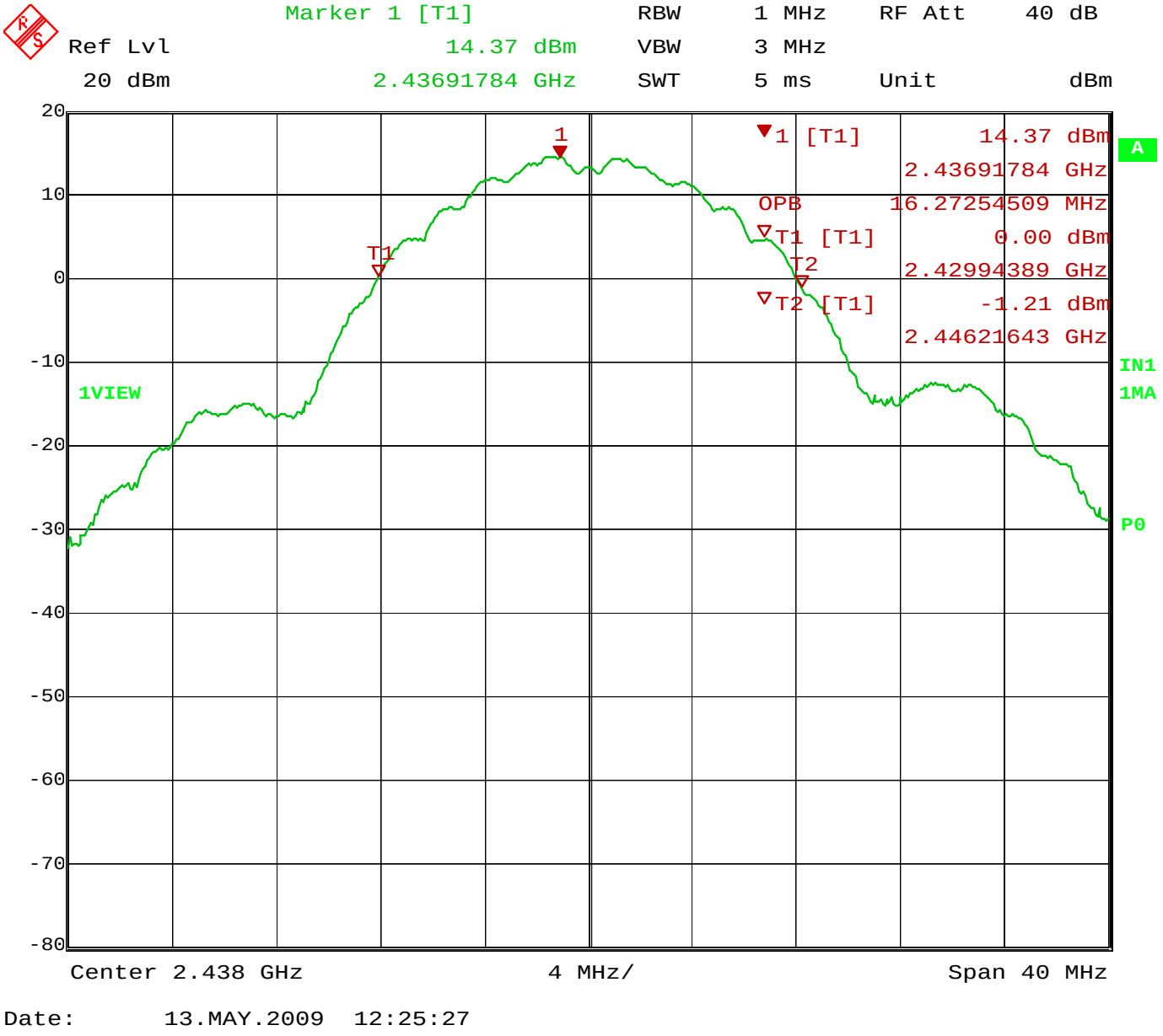
Frequency MHz	Quasi Pk dBµV	Limit dBµV	Delta dB	Phase /PE	Average dBµV	Limit dBµV	Delta dB
0.15	32.78	66.00	33.22	N /gnd	10.37	56.00	45.63
0.17043	47.03	64.94	17.91	N /gnd	29.99	54.94	24.95
0.22181	40.45	62.75	22.30	N /gnd	27.79	52.75	24.96
0.43724	32.91	57.11	24.20	N /gnd	19.85	47.11	27.26
0.50281	35.01	56.00	20.99	N /gnd	21.65	46.00	24.35
2.23776	23.52	56.00	32.48	N /gnd	8.75	46.00	37.25

7. Occupied bandwidth

Antenna 1



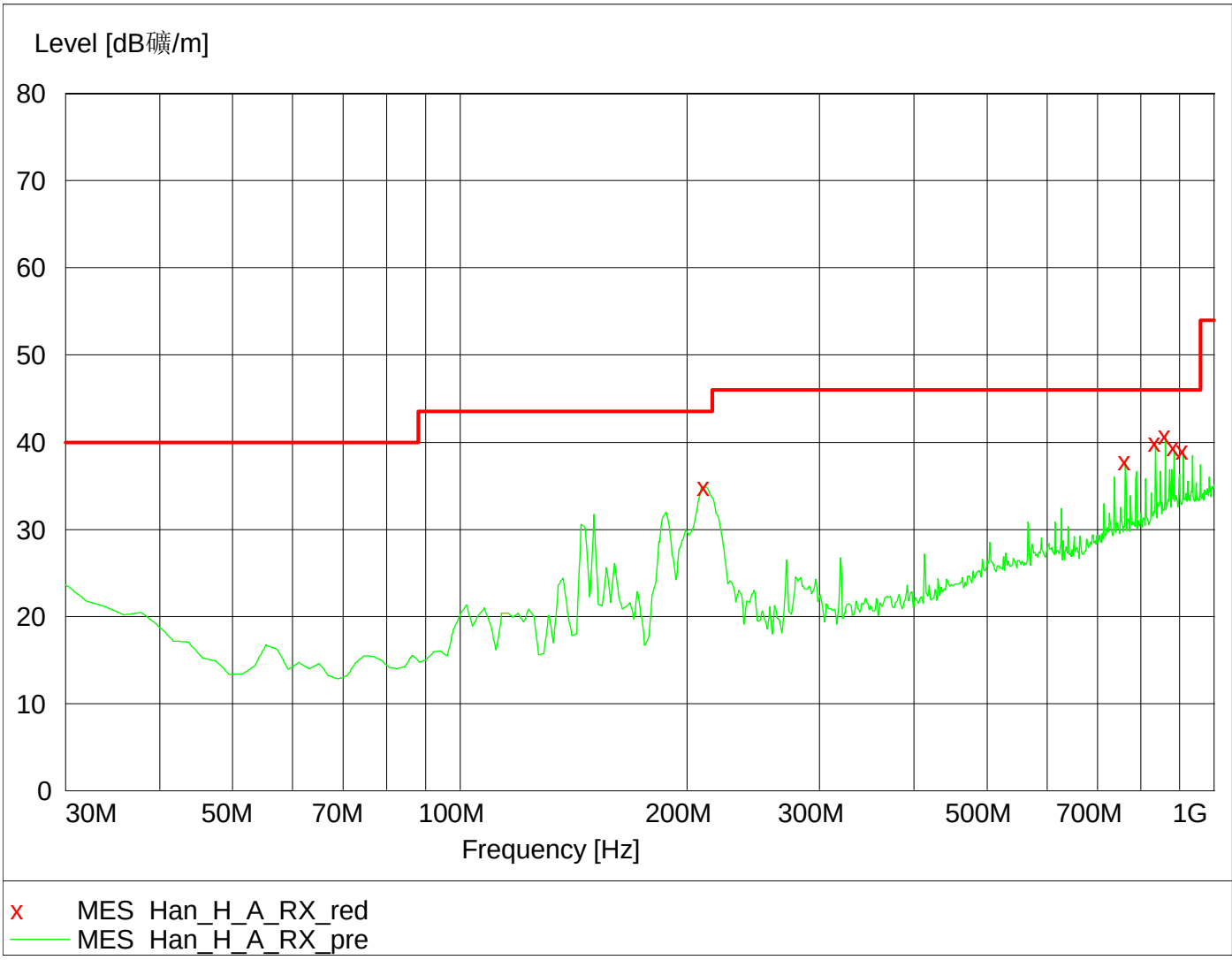
Antenna 2


Marker 1 [T1]
RBW 1 MHz
RF Att 40 dB
Ref Lvl
14.37 dBm
VBW 3 MHz
20 dBm
2.43691784 GHz
SWT 5 ms
Unit dBm
1 [T1] 14.37 dBm
2.43691784 GHz
OPB 16.27254509 MHz
T1 [T1] 0.00 dBm
2.42994389 GHz
T2 [T1] -1.21 dBm
2.44621643 GHz
1VIEW
A
IN1
1MA
P0
Center 2.438 GHz
4 MHz/
Span 40 MHz
Date: 13.MAY.2009 12:25:27

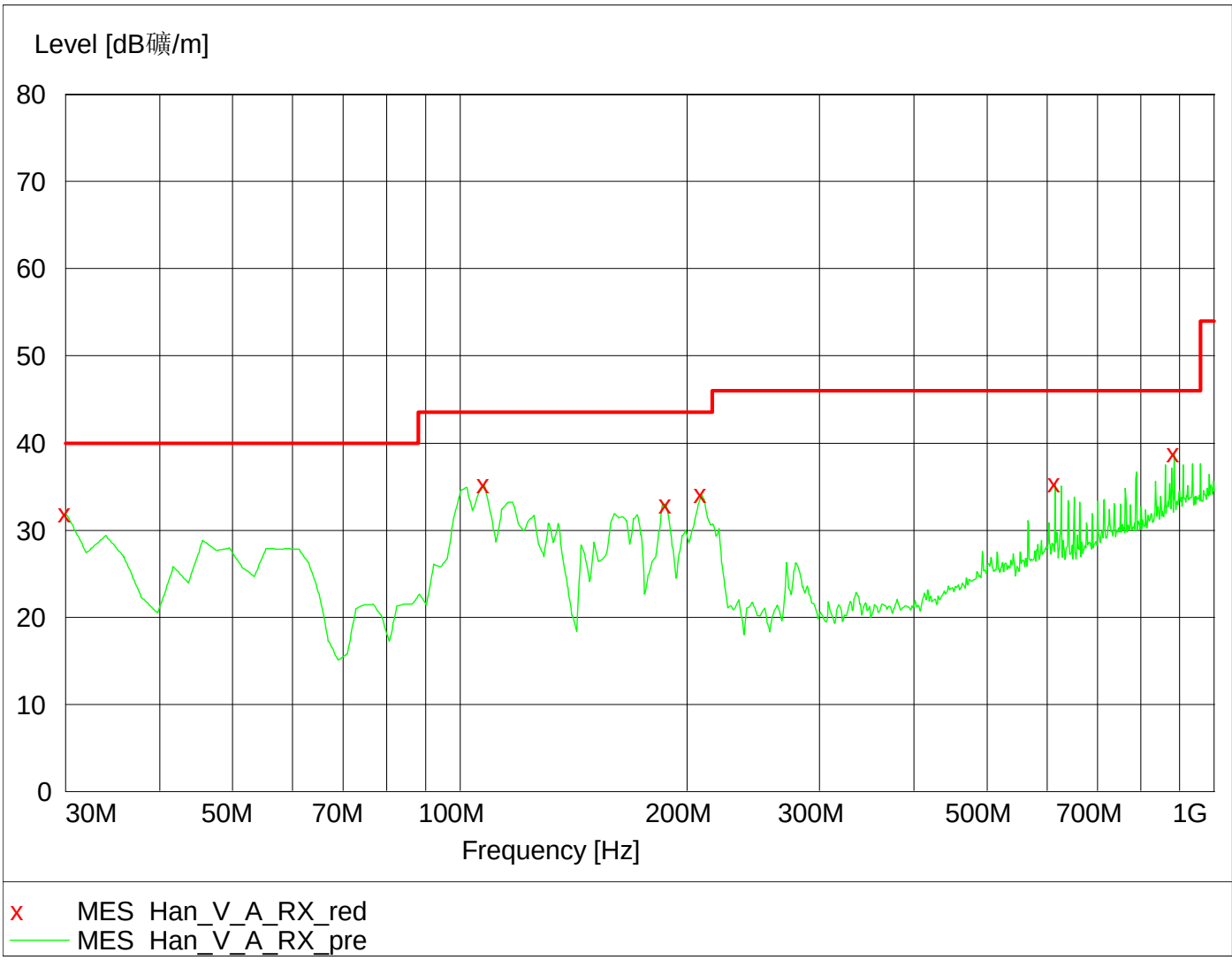
8. Spurious emission for receiver

Antenna 1

Horizontal

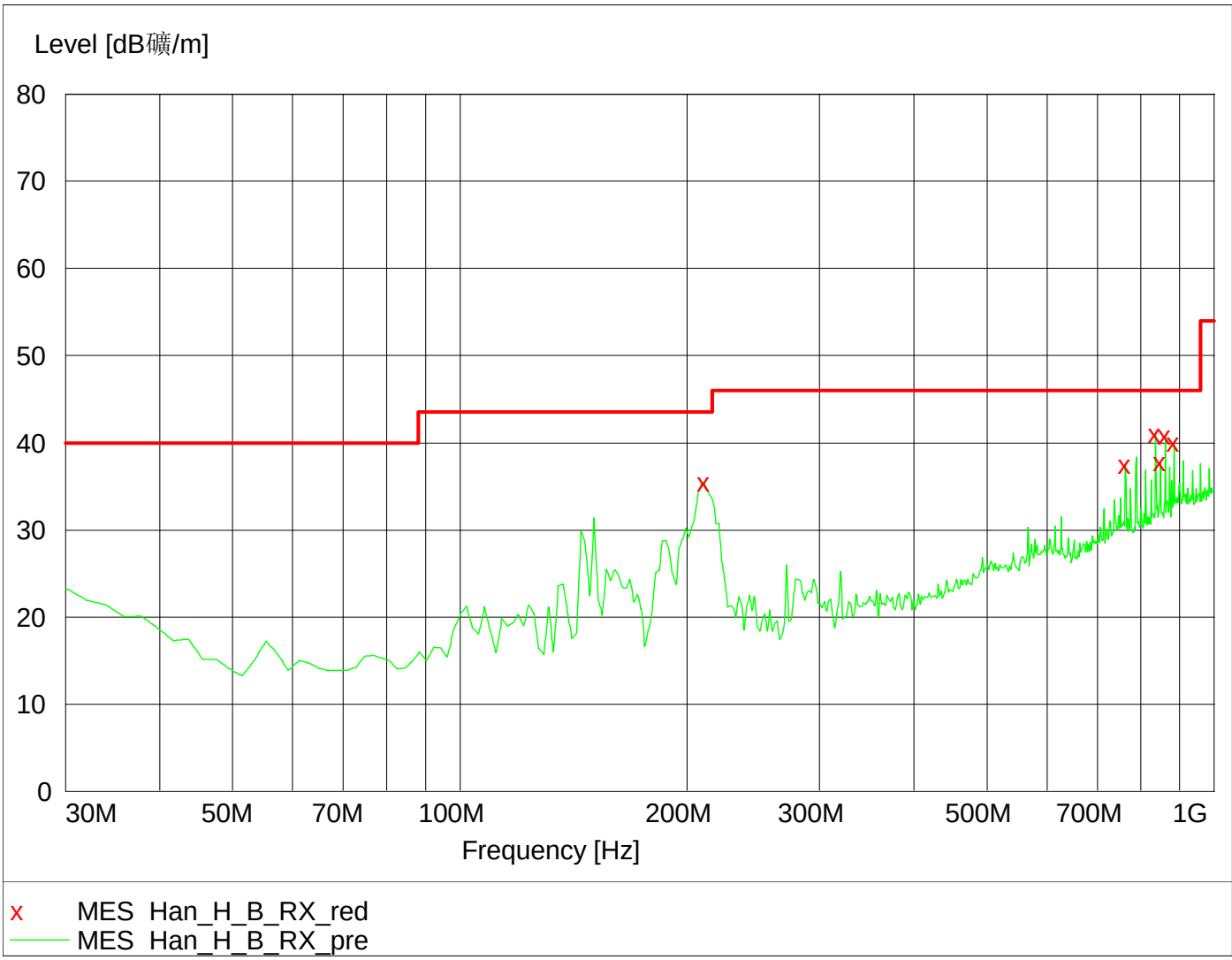


Vertical

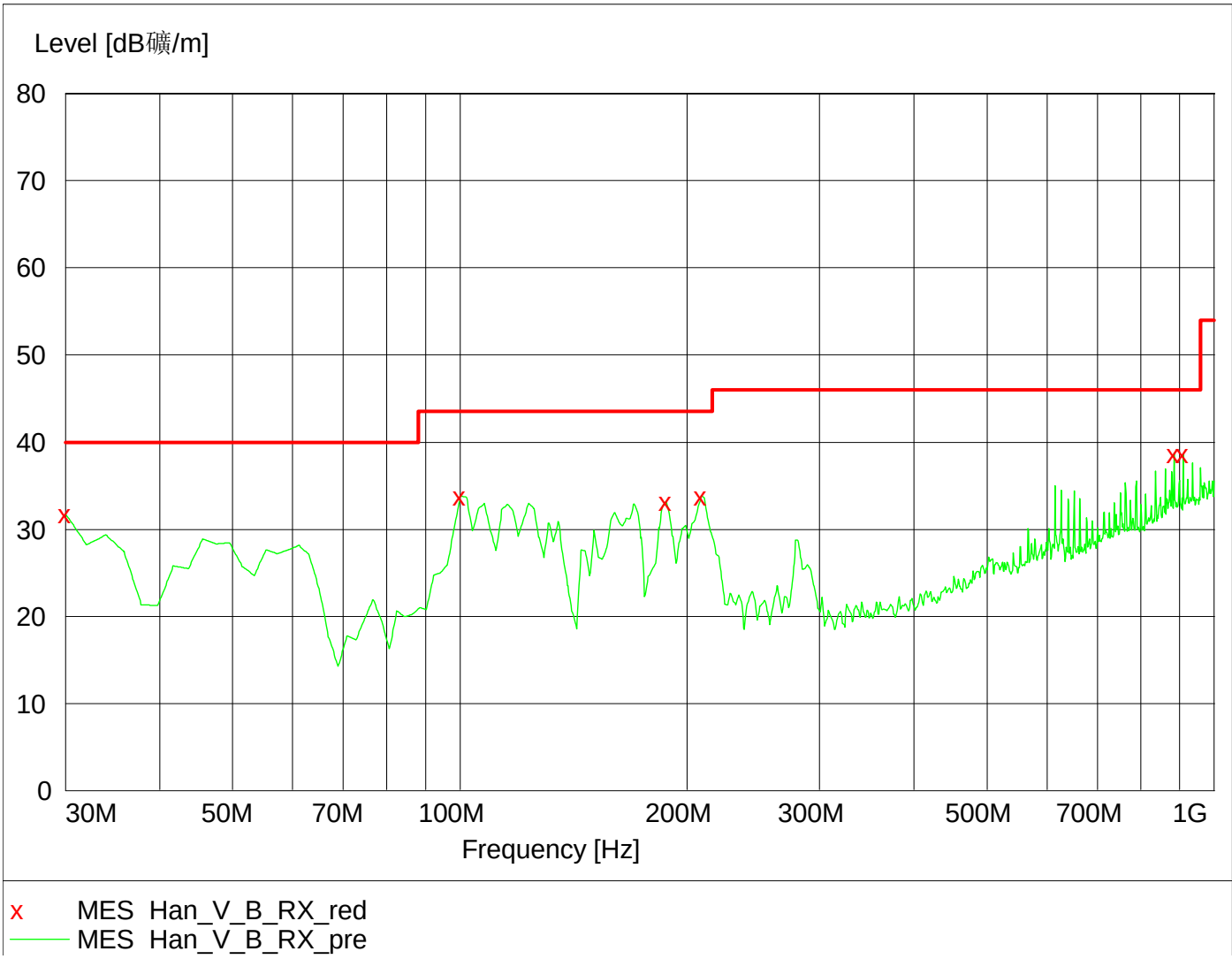

Level [dBµV/m]
80
70
60
50
40
30
20
10
0
30M
50M
70M
100M
200M
300M
500M
700M
1G
Frequency [Hz]
MES Han_V_A_RX_red
MES Han_V_A_RX_pre

Antenna 2

Horizontal



Vertical


Level [dBµV/m]
80
70
60
50
40
30
20
10
0
30M
50M
70M
100M
200M
300M
500M
700M
1G
Frequency [Hz]
x MES Han_V_B_RX_red
MES Han_V_B_RX_pre