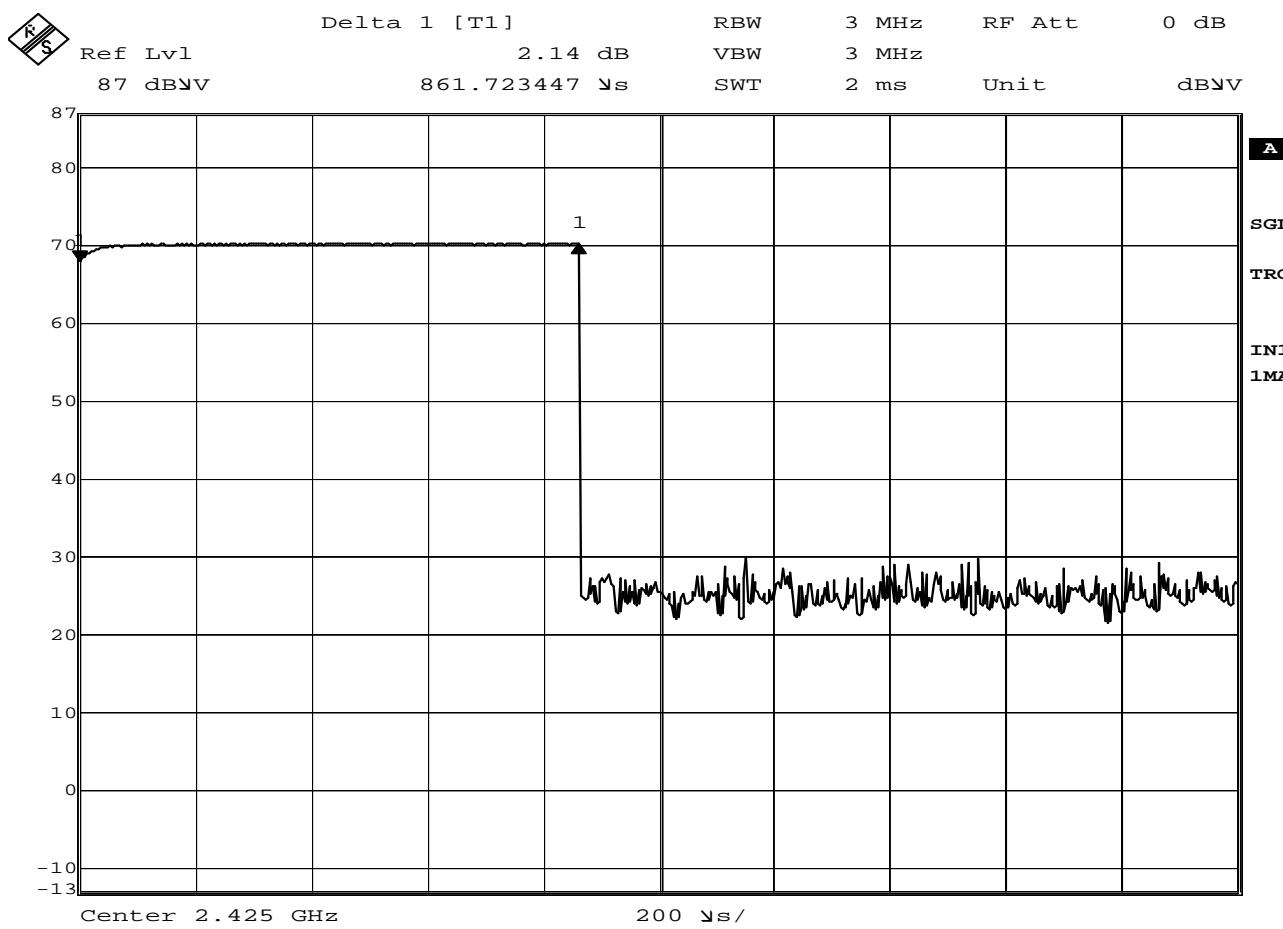


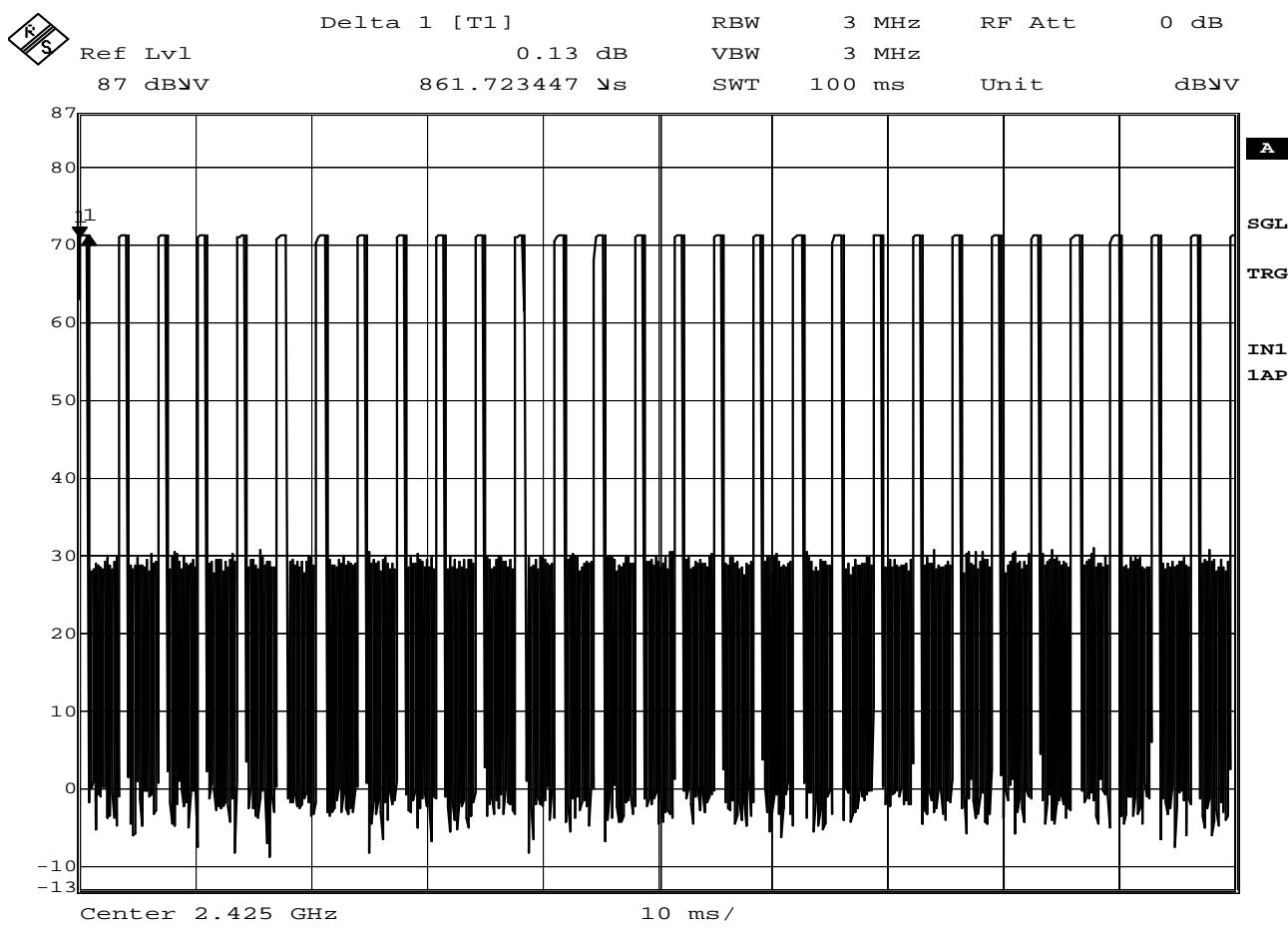


MANUFACTURER : Twistthink  
MODEL NO. : Master Station  
SERIAL NO. : See Below  
TEST MODE : See Below  
TEST DATE : July 15, 2010  
TEST PARAMETERS : Effective Isotropic Radiated Emissions (EIRP)  
NOTES :  
EQUIPMENT USED : NWI1, T2S7, RBB0, NWI0, GRE0, CMA1,

Frequency MHz	Antenna Polarity	Meter Reading dBuV	Matched Signal Generator Reading dBm	Antenna Gain dB	Cable Loss dB	EIRP dBm	Limit dBm
Master Station 801 Filter, Serial No. 1082, Tx @ 2405MHz (Ch. 11)							
2405.0	H	91.8	24.2	6.5	3.0	27.7	36.0
2405.0	V	92.8	25.3	6.5	3.0	28.8	36.0
Master Station 803 Filter, Serial No. 1085, Tx @ 2425MHz (Ch. 15)							
2425.0	H	91.6	24.8	6.6	3.1	28.3	36.0
2425.0	V	92.5	25.7	6.6	3.1	29.2	36.0
Master Station 806 Filter, Serial No. 1087, Tx @ 2445MHz (Ch. 19)							
2445.0	H	90.7	24.4	6.6	3.1	28.0	36.0
2445.0	V	92.7	26.0	6.6	3.1	29.6	36.0

**FCC 15.247 Duty Cycle Correction Factor**

MANUFACTURER : Twistthink  
MODEL NUMBER : Master Station 803 Filter  
SERIAL NUMBER : 1085  
TEST MODE : Tx @ 2.425GHz (Ch. 15)  
TEST DATE : July 7, 2010  
TEST PARAMETERS : Duty Cycle Correction Factor  
NOTES : Pulse width = 861.7usec  
EQUIPMENT USED : RBB0, T2S7, NWI1



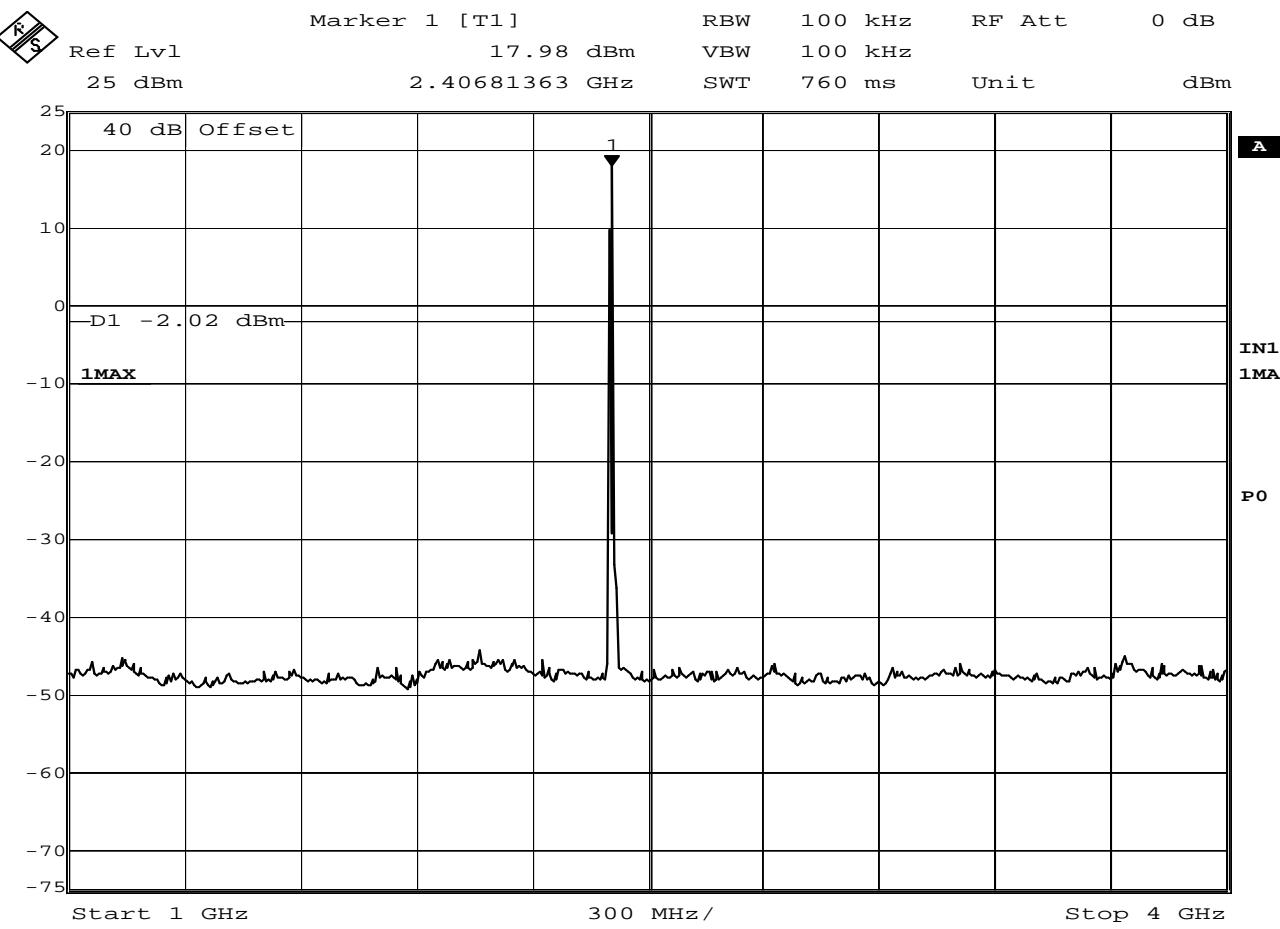
#### FCC 15.247 Duty Cycle Correction Factor

MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 803 Filter
SERIAL NUMBER	:	1085
TEST MODE	:	Tx @ 2.425GHz (Ch. 15)
TEST DATE	:	July 7, 2010
TEST PARAMETERS	:	Duty Cycle Correction Factor
NOTES	:	Pulse width = 861.7usec, approximately 30 pulses per 100msec
	:	Duty Cycle = $20 \log_{10}(\text{on time}/100\text{msec}) = 20 \log_{10}(30*861.7\text{usec}/100\text{msec})$
	:	Duty Cycle = $20 \log_{10}(0.25851) = -11.75\text{dB}$
EQUIPMENT USED	:	RBB0, T2S7, NWI1



#### 15.247(d) Spurious Emissions at Antenna Terminal

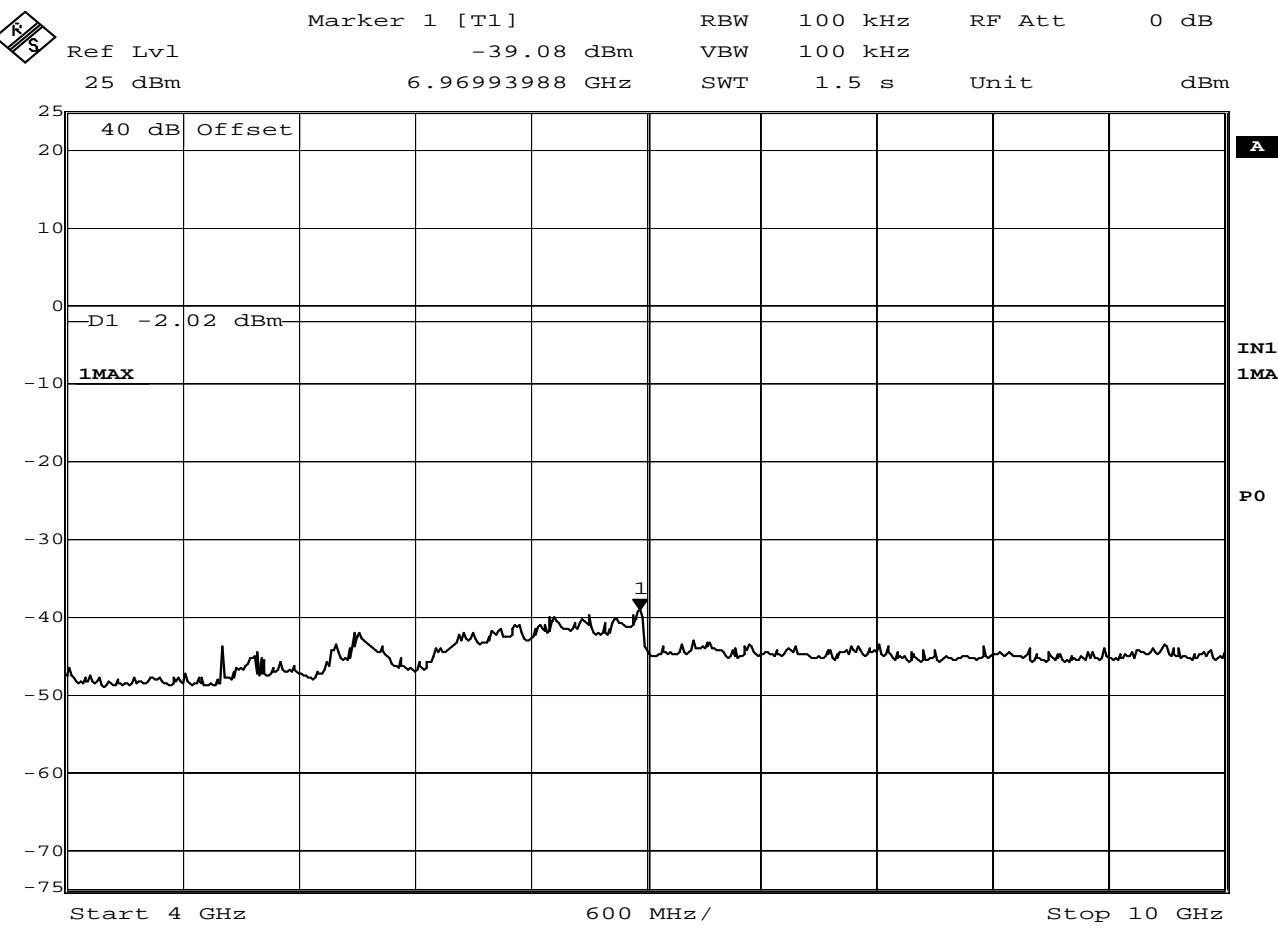
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 801 Filter
SERIAL NUMBER	:	1082
TEST MODE	:	Tx @ 2405MHz (ch. 11)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 12:08:52

#### 15.247(d) Spurious Emissions at Antenna Terminal

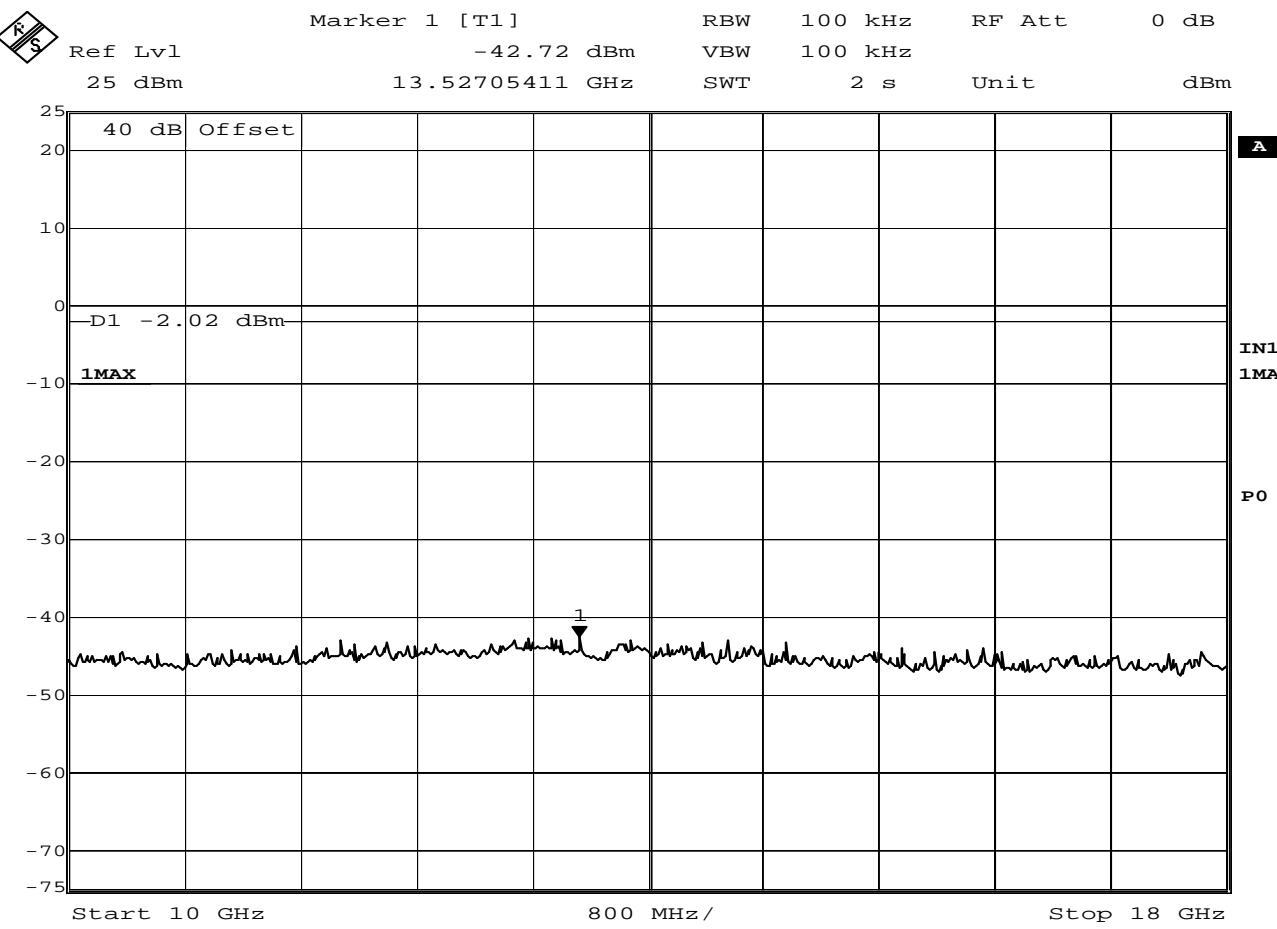
MANUFACTURER : Twistthink  
 MODEL NUMBER : Master Station 801 Filter  
 SERIAL NUMBER : 1082  
 TEST MODE : Tx @ 2405MHz (ch. 11)  
 TEST DATE : July 15, 2010  
 TEST PARAMETERS : Spurious Emissions at Antenna Terminal  
 NOTES : Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth  
 EQUIPMENT USED : RBB0, TVH4



Date: 15.JUL.2010 12:25:57

#### 15.247(d) Spurious Emissions at Antenna Terminal

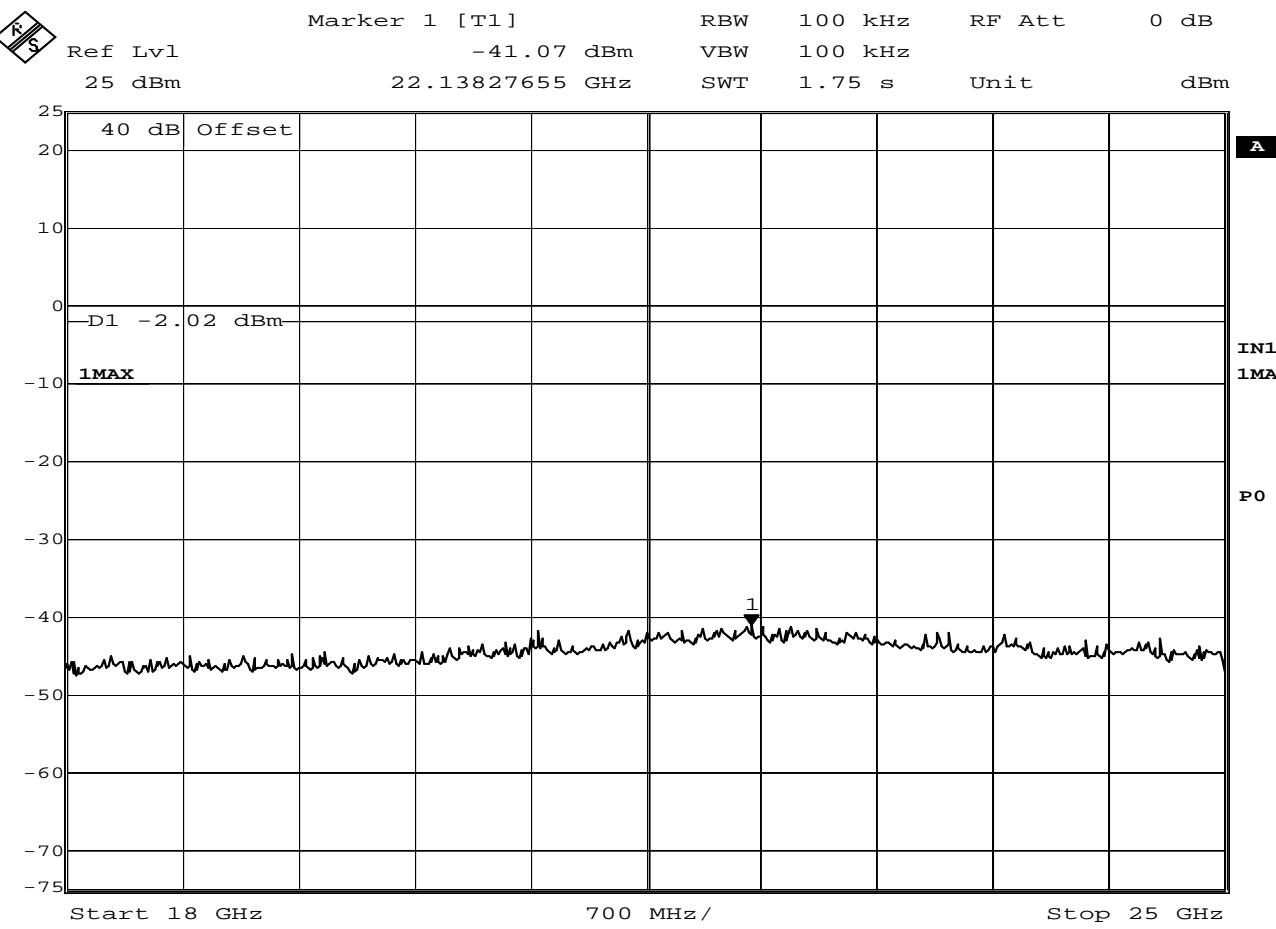
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 801 Filter
SERIAL NUMBER	:	1082
TEST MODE	:	Tx @ 2405MHz (ch. 11)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 12:42:04

#### 15.247(d) Spurious Emissions at Antenna Terminal

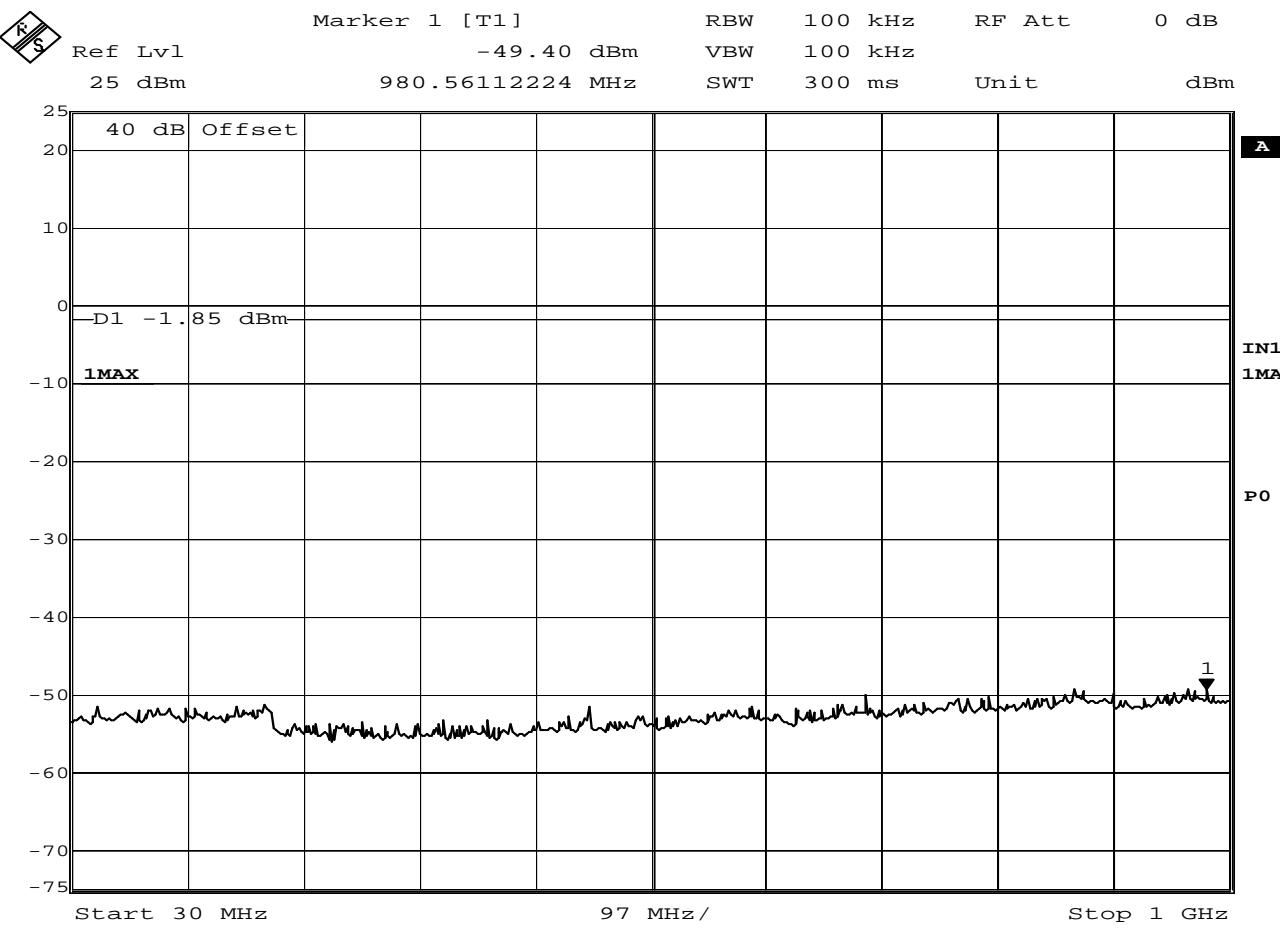
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 801 Filter
SERIAL NUMBER	:	1082
TEST MODE	:	Tx @ 2405MHz (ch. 11)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 12:46:38

#### 15.247(d) Spurious Emissions at Antenna Terminal

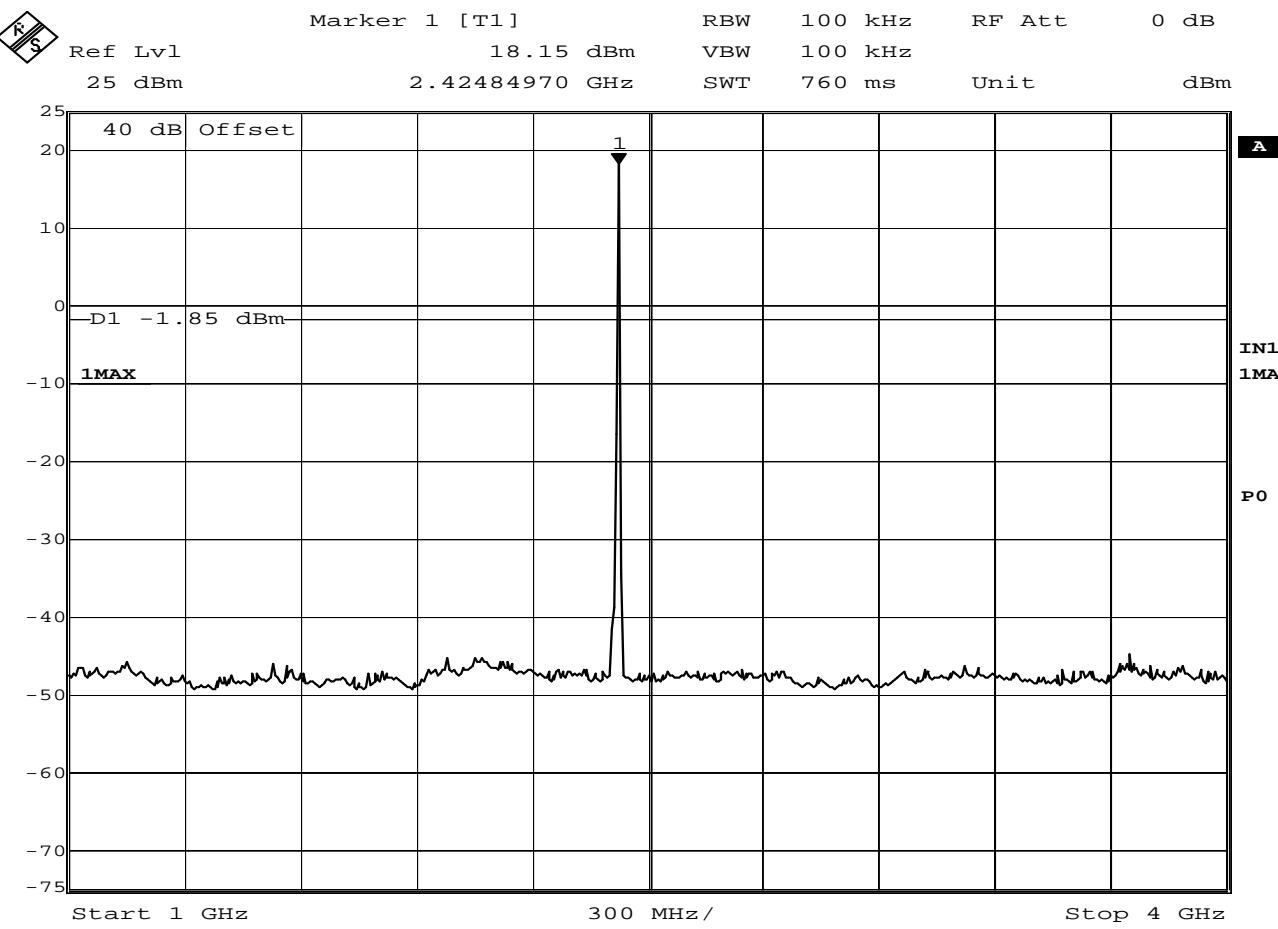
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 801 Filter
SERIAL NUMBER	:	1082
TEST MODE	:	Tx @ 2405MHz (ch. 11)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 13:00:29

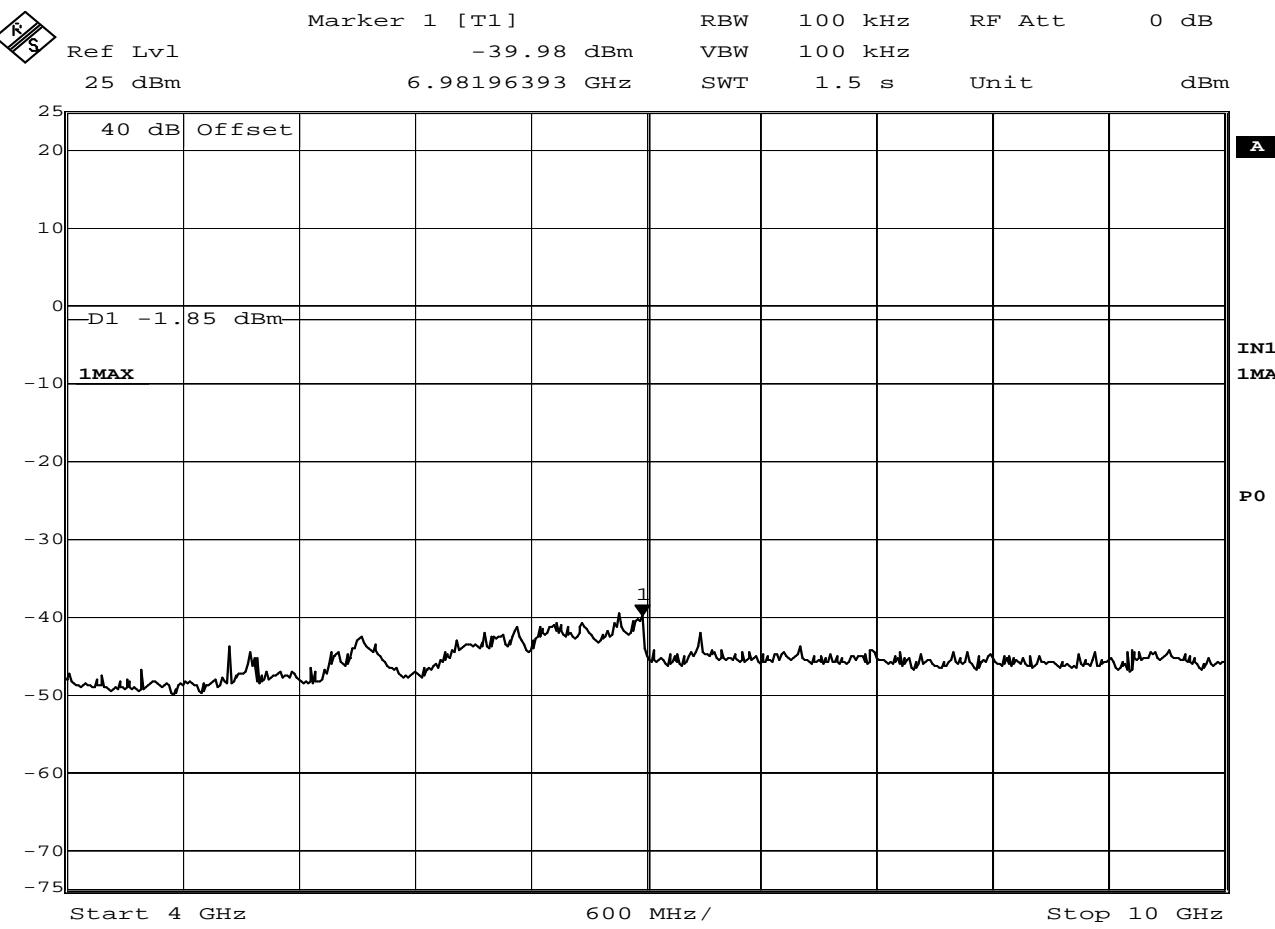
#### 15.247(d) Spurious Emissions at Antenna Terminal

MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 803 Filter
SERIAL NUMBER	:	1085
TEST MODE	:	Tx @ 2425MHz (ch. 15)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



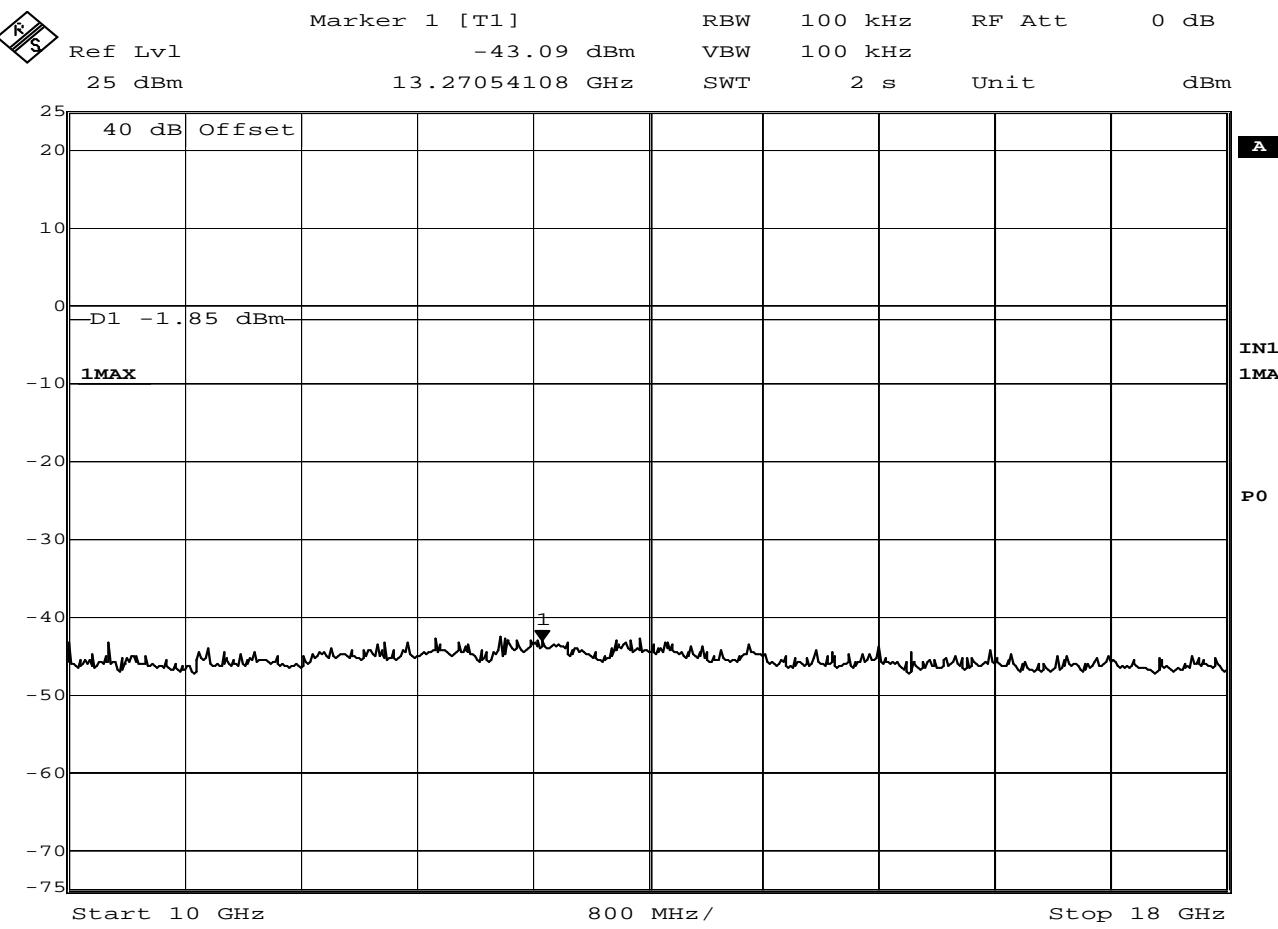
#### 15.247(d) Spurious Emissions at Antenna Terminal

MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 803 Filter
SERIAL NUMBER	:	1085
TEST MODE	:	Tx @ 2425MHz (ch. 15)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



#### 15.247(d) Spurious Emissions at Antenna Terminal

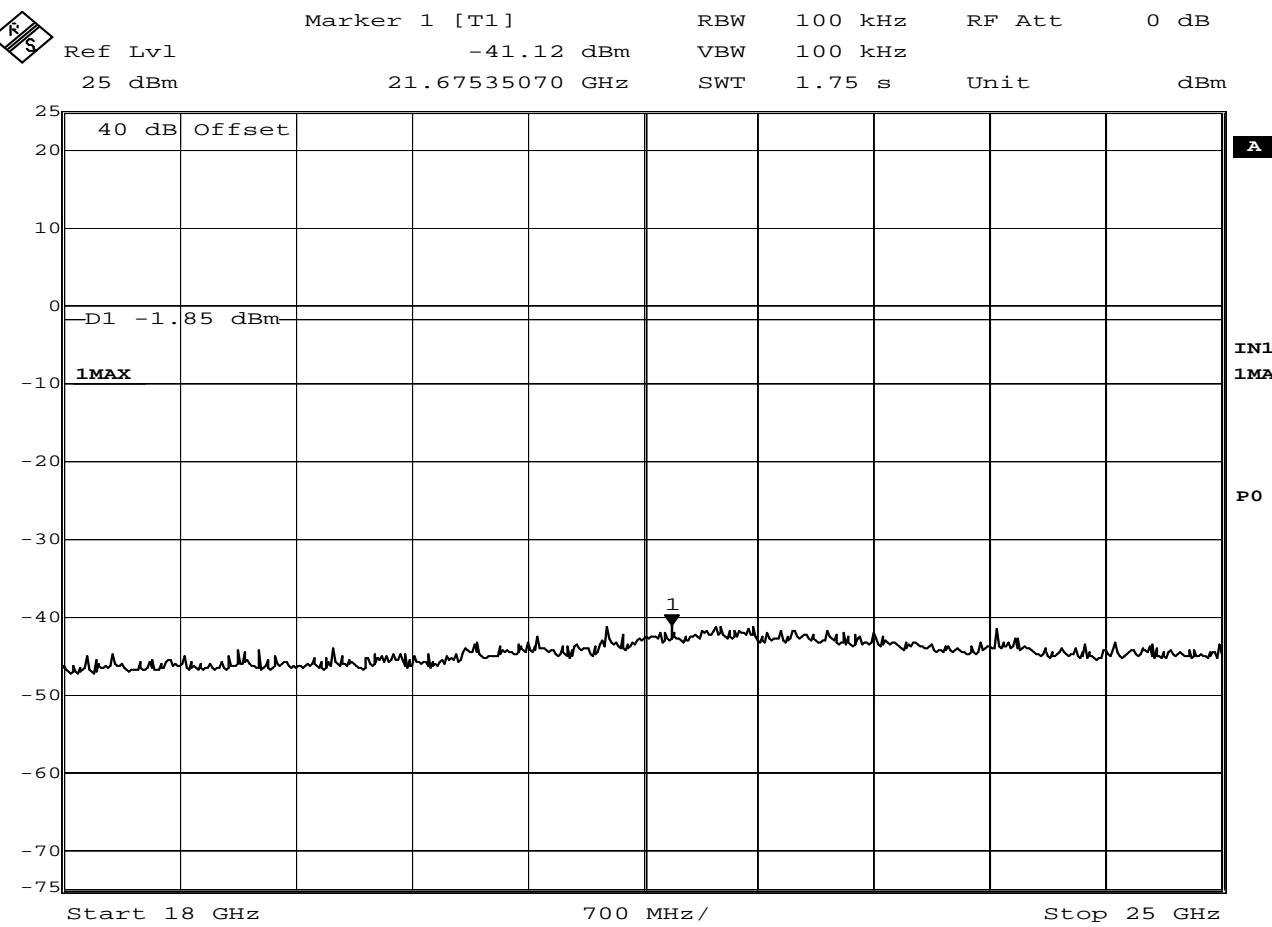
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 803 Filter
SERIAL NUMBER	:	1085
TEST MODE	:	Tx @ 2425MHz (ch. 15)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 12:58:20

#### 15.247(d) Spurious Emissions at Antenna Terminal

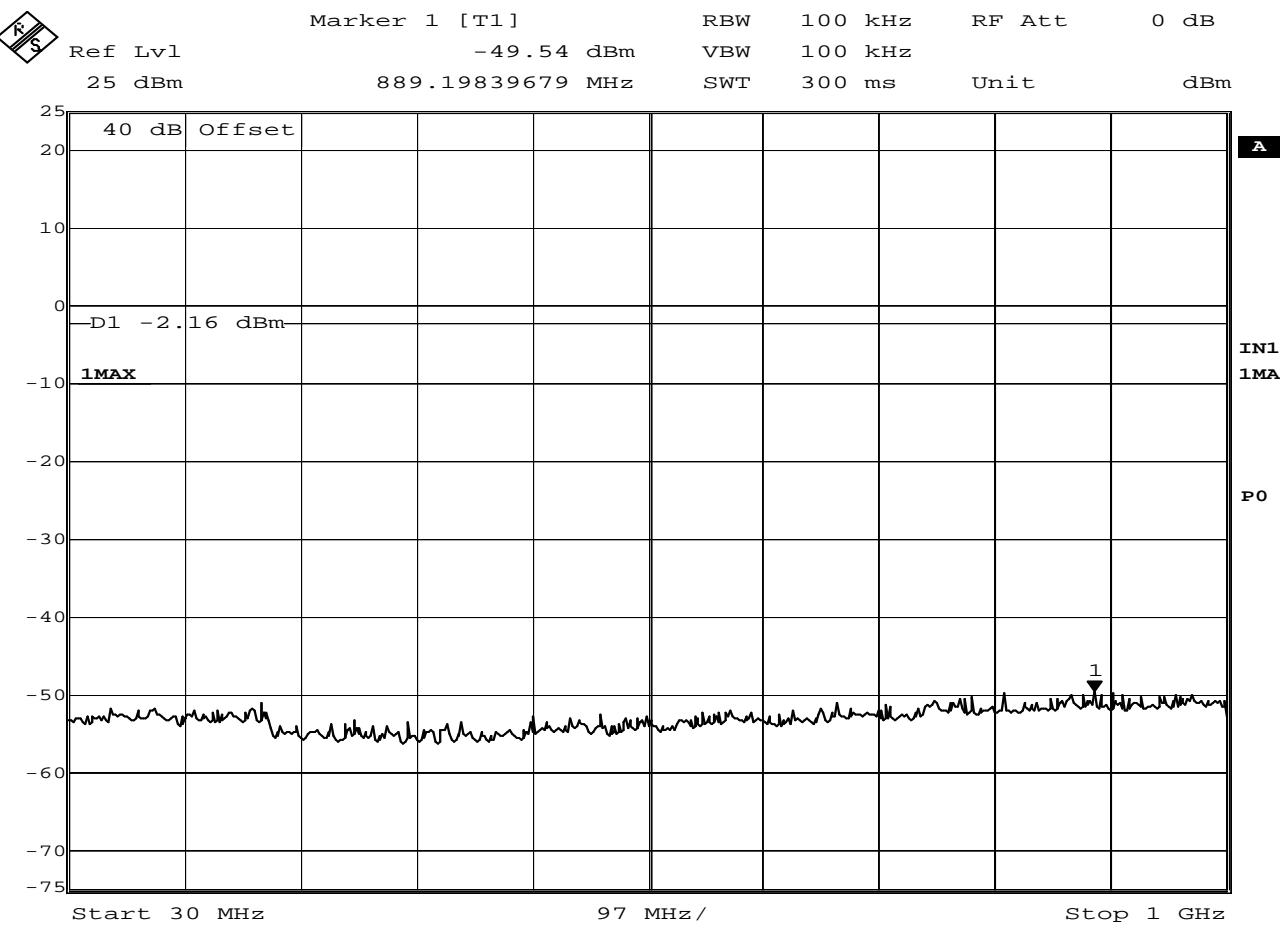
MANUFACTURER : Twistthink  
MODEL NUMBER : Master Station 803 Filter  
SERIAL NUMBER : 1085  
TEST MODE : Tx @ 2425MHz (ch. 15)  
TEST DATE : July 15, 2010  
TEST PARAMETERS : Spurious Emissions at Antenna Terminal  
NOTES : Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth  
EQUIPMENT USED : RBB0, TVH4



Date: 15.JUL.2010 13:26:41

#### 15.247(d) Spurious Emissions at Antenna Terminal

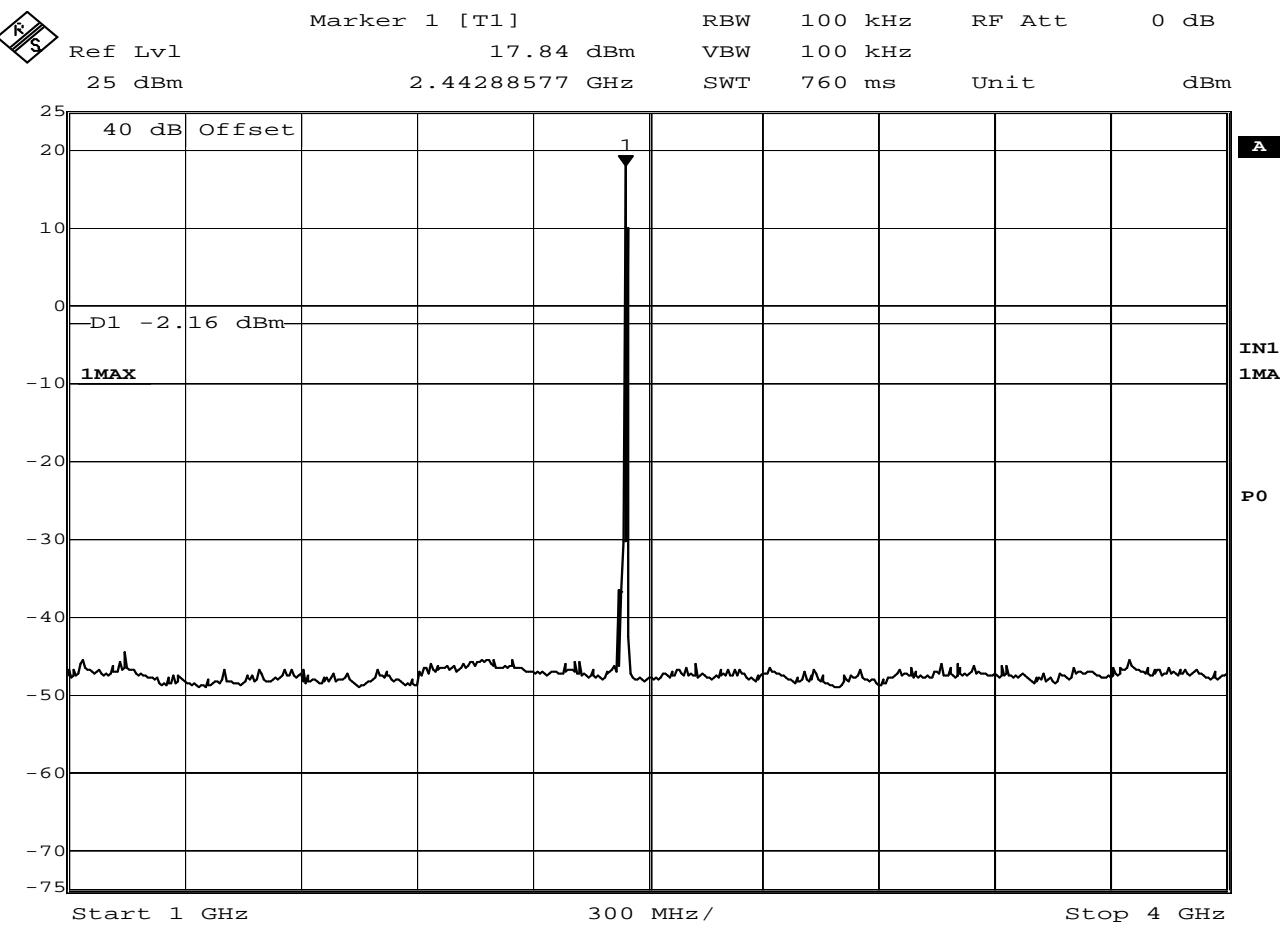
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 803 Filter
SERIAL NUMBER	:	1085
TEST MODE	:	Tx @ 2425MHz (ch. 15)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 13:17:00

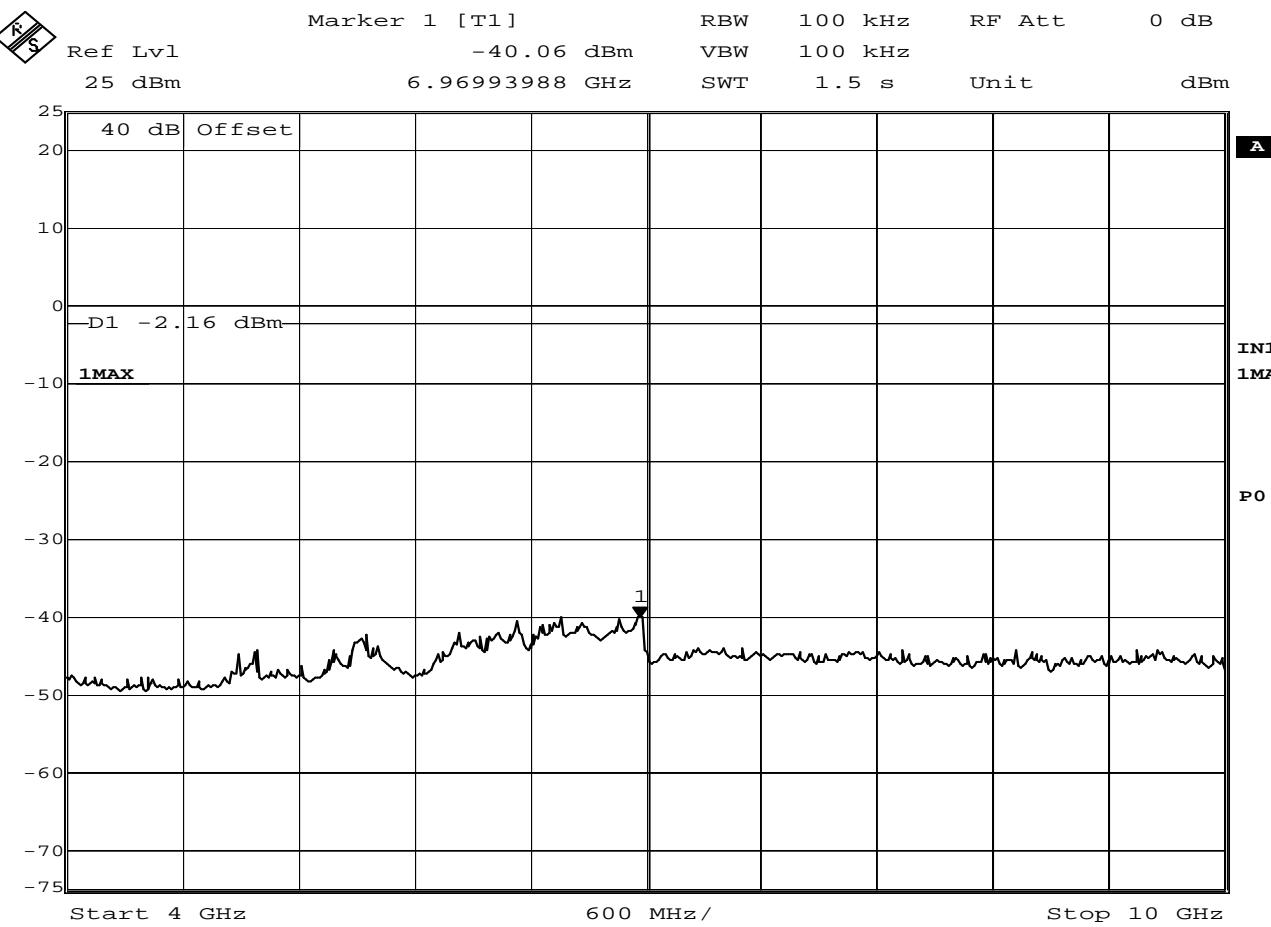
#### 15.247(d) Spurious Emissions at Antenna Terminal

MANUFACTURER : Twistthink  
 MODEL NUMBER : Master Station 806 Filter  
 SERIAL NUMBER : 1087  
 TEST MODE : Tx @ 2445MHz (ch. 19)  
 TEST DATE : July 15, 2010  
 TEST PARAMETERS : Spurious Emissions at Antenna Terminal  
 NOTES : Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth  
 EQUIPMENT USED : RBB0, TVH4



#### 15.247(d) Spurious Emissions at Antenna Terminal

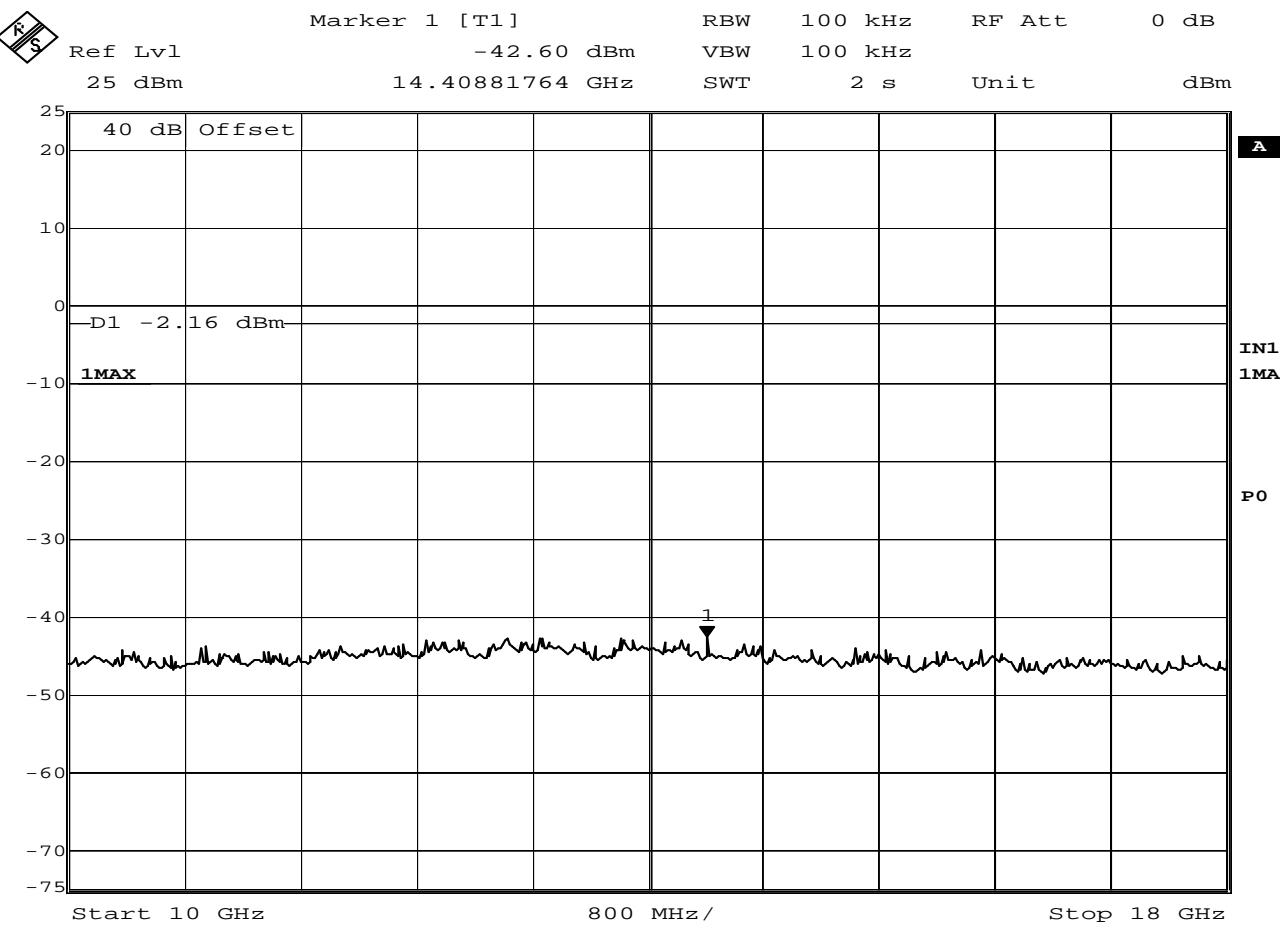
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 806 Filter
SERIAL NUMBER	:	1087
TEST MODE	:	Tx @ 2445MHz (ch. 19)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 13:12:28

#### 15.247(d) Spurious Emissions at Antenna Terminal

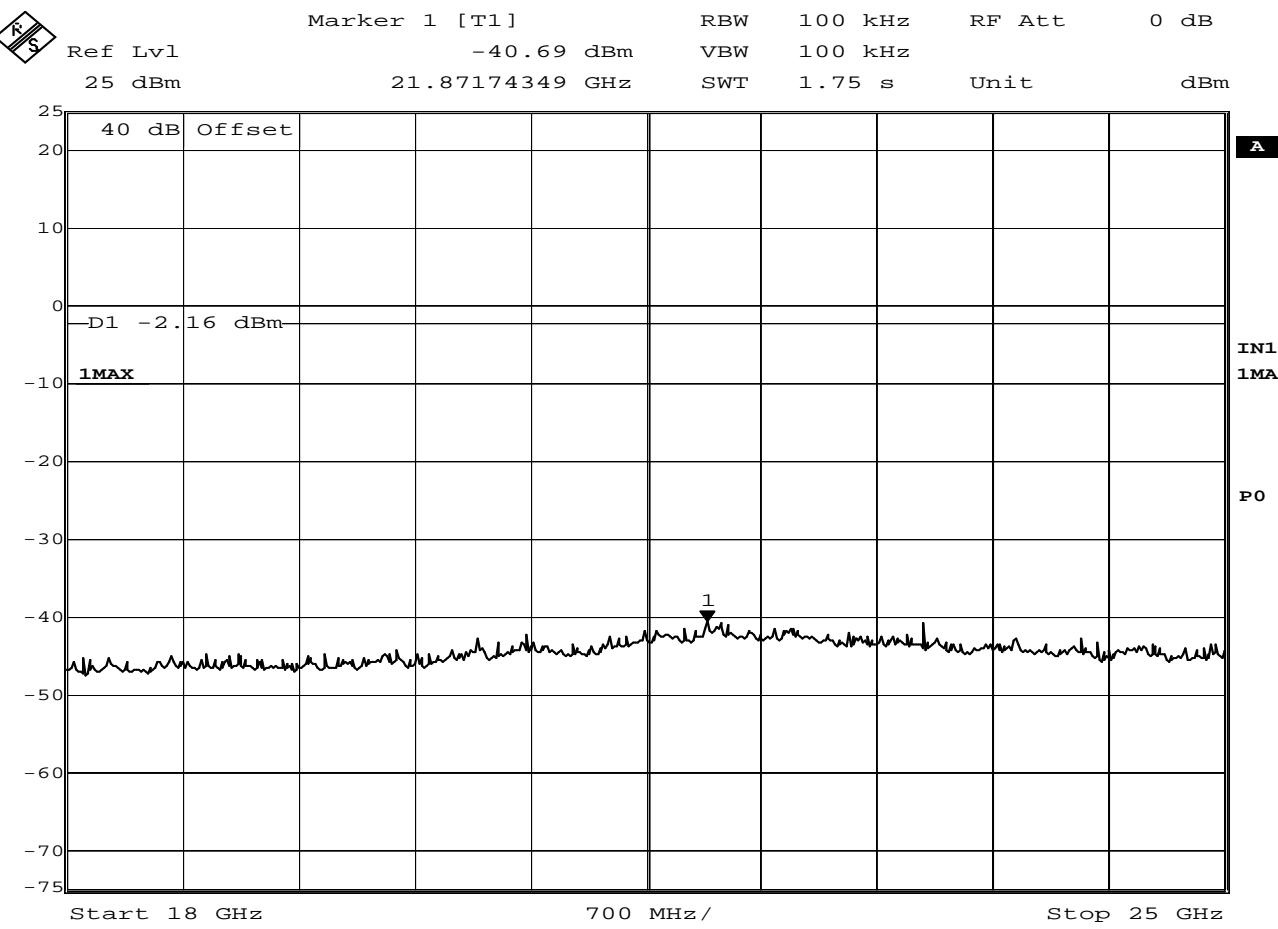
MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 806 Filter
SERIAL NUMBER	:	1087
TEST MODE	:	Tx @ 2445MHz (ch. 19)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 13:14:20

#### 15.247(d) Spurious Emissions at Antenna Terminal

MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 806 Filter
SERIAL NUMBER	:	1087
TEST MODE	:	Tx @ 2445MHz (ch. 19)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4



Date: 15.JUL.2010 13:15:46

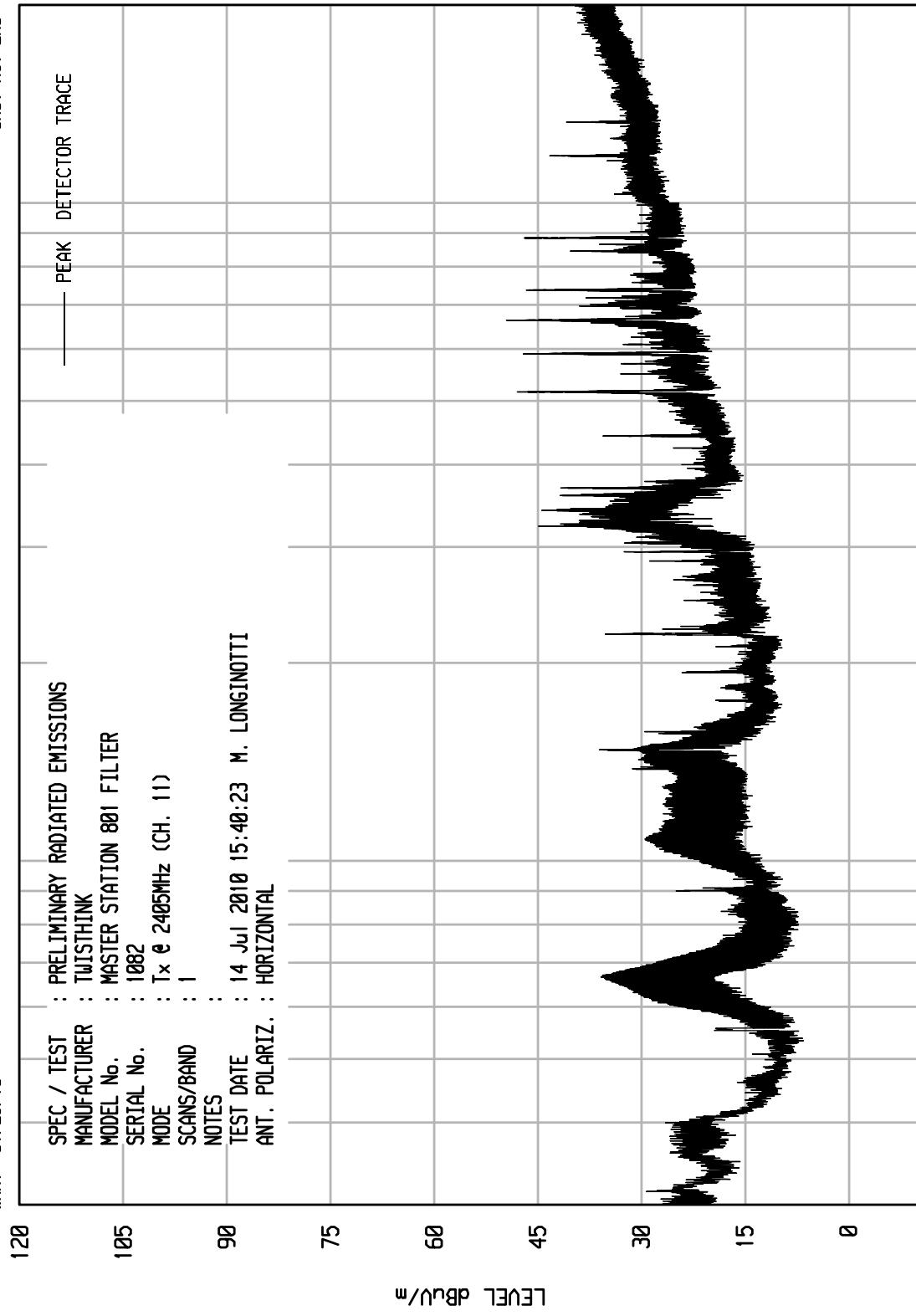
#### 15.247(d) Spurious Emissions at Antenna Terminal

MANUFACTURER	:	Twistthink
MODEL NUMBER	:	Master Station 806 Filter
SERIAL NUMBER	:	1087
TEST MODE	:	Tx @ 2445MHz (ch. 19)
TEST DATE	:	July 15, 2010
TEST PARAMETERS	:	Spurious Emissions at Antenna Terminal
NOTES	:	Display Line D1 represents the 20dB down point from the peak of the transmit frequency in a 100kHz bandwidth
EQUIPMENT USED	:	RBB0, TVH4

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIV RCU EMI RUN 3

WKAI	01/25/10	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
MANUFACTURER		MANUFACTURER	TWISTTHINK
MODEL No.		MASTER STATION	801 FILTER
SERIAL No.	1082		
MODE		Tx & 2405MHz (CH. 11)	
SCANS/BAND	1		
NOTES			
TEST DATE	14 Jul 2010 15:40:23	M. LONGINOTTI	
ANT. POLARIZ.	: HORIZONTAL		



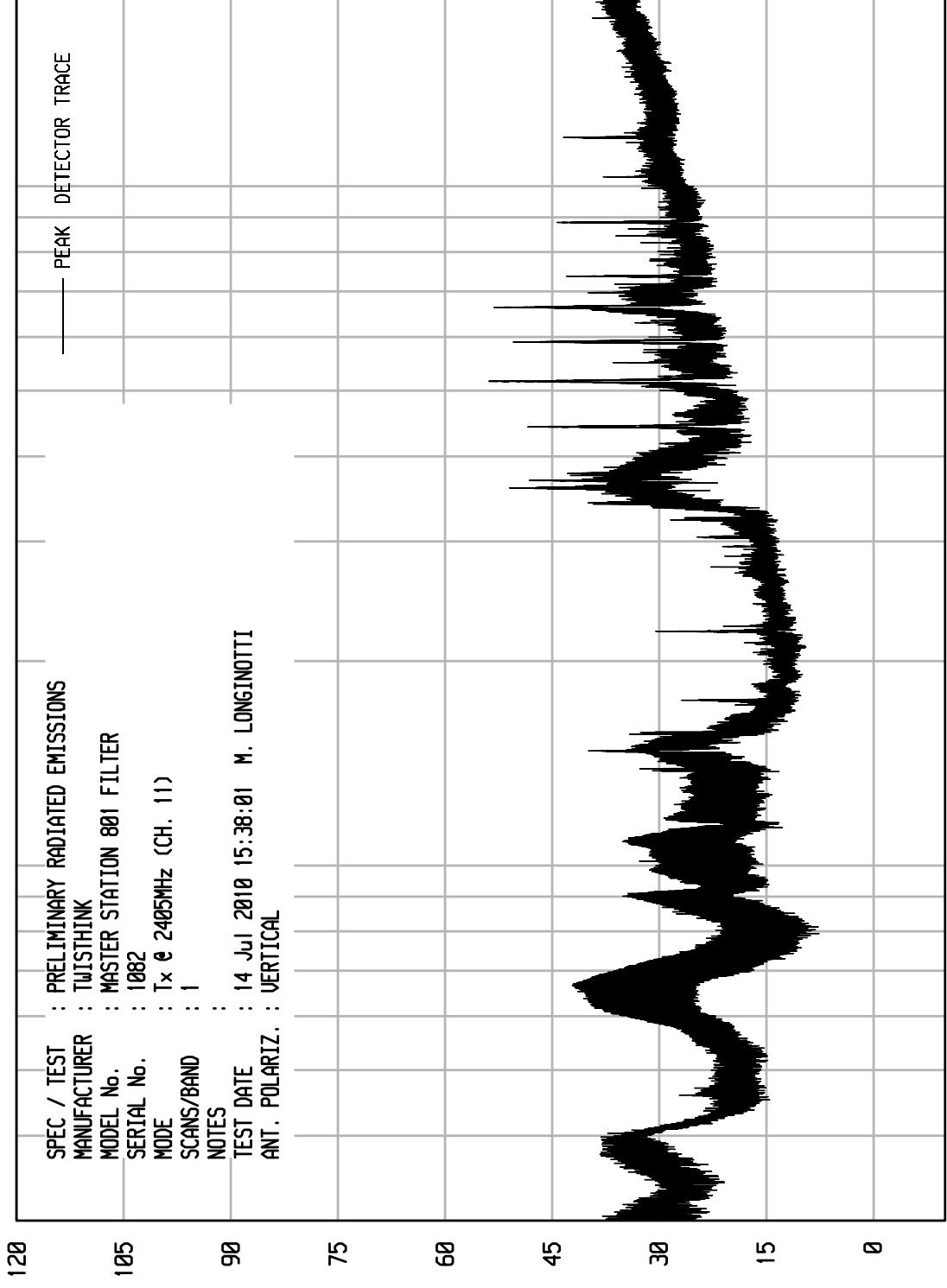
ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIV RCU EMI RUN 2

WKAI 01/25/10	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
105	MANUFACTURER	TWISTTHINK
90	MODEL No.	MASTER STATION 801 FILTER
80	SERIAL No.	1082
75	MODE	Tx @ 2405MHz (CH. 11)
60	SCANS/BAND	1
45	NOTES	
30	TEST DATE	14 Jul 2010 15:38:01 M. LONGINOTTI
15	ANT. POLARIZ.	: VERTICAL

LEVEL dBUL/m

Page 50 of 90



START = 30

100

FREQUENCY MHz

1000

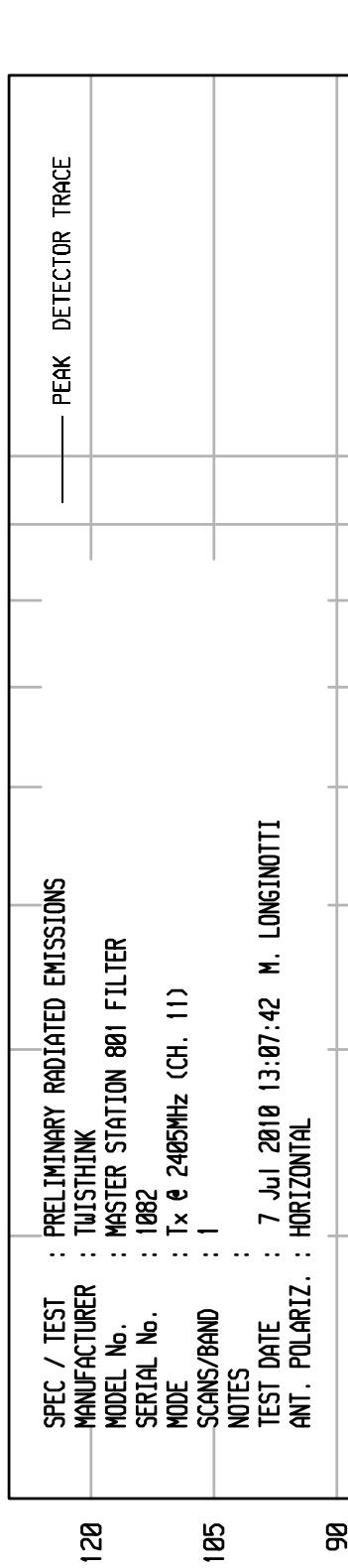
STOP = 2000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNITU RCU EMI RUN 4

SPEC / TEST	PRELIMINARY RADIATED EMISSIONS	
MANUFACTURER	TWISTTHINK	
MODEL No.	MASTER STATION 801 FILTER	
SERIAL No.	1082	
MODE	Tx & 2405MHz (CH. 11)	
SCANS/BAND	1	
NOTES		
TEST DATE	7 Jul 2010 13:07:42 M. LONGINOTTI	
ANT. POLARIZ.	HORIZONTAL	



START = 2000

10000

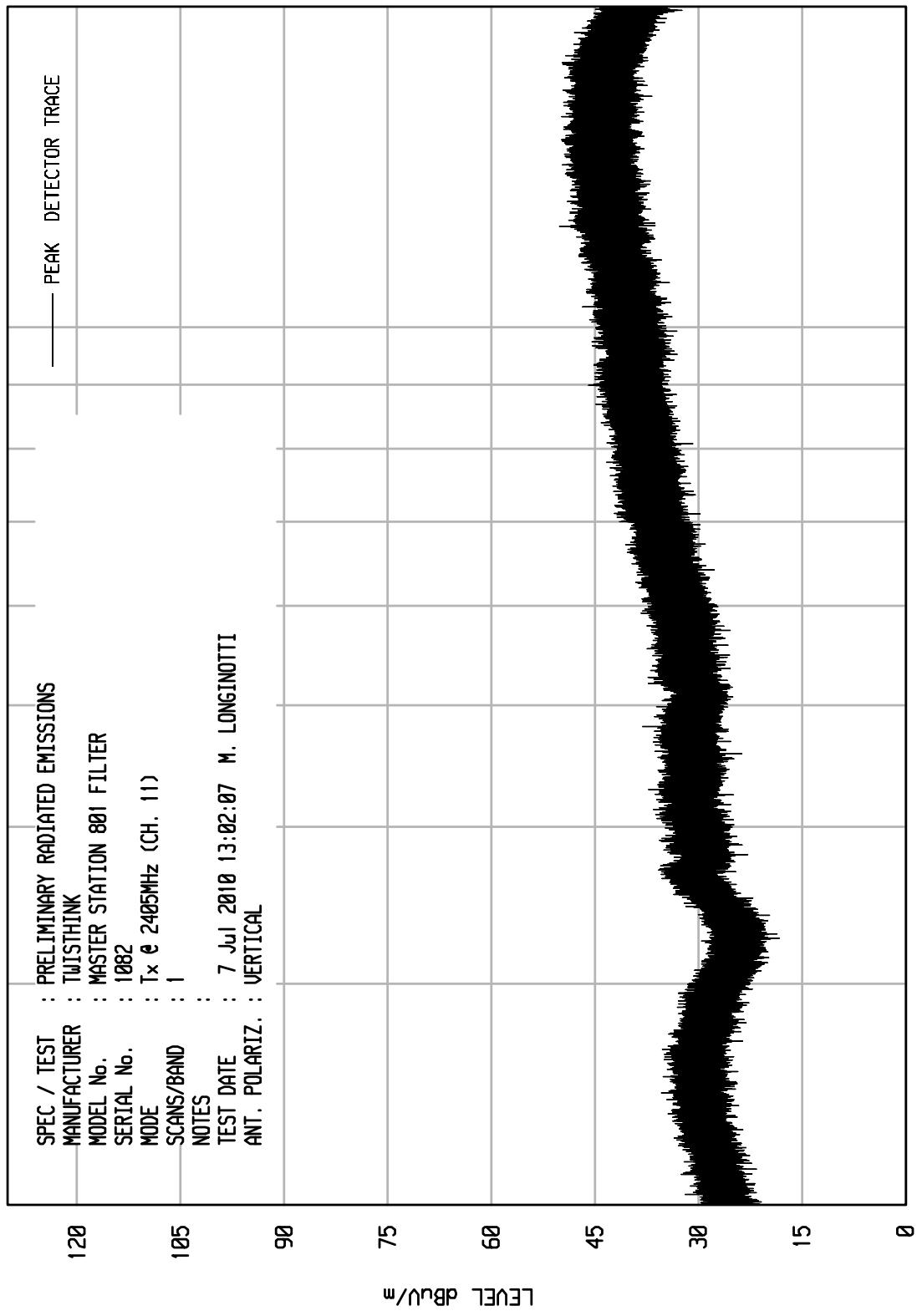
STOP = 18000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNIT RCU EMI RUN 3

SPEC / TEST	PRELIMINARY RADIATED EMISSIONS		
MANUFACTURER	TWISTTHINK		
MODEL No.	MASTER STATION 801 FILTER		
SERIAL No.	1082		
MODE	Tx & 2405MHz (CH. 11)		
SCANS/BAND	1		
NOTES			
TEST DATE	7 Jul 2010 13:02:07 M. LONGINOTTI		
ANT. POLARIZ.	VERTICAL		



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNIV RCU EMI RUN 6

SPEC / TEST		PRELIMINARY RADIATED EMISSIONS	
MANUFACTURER	: TWISTTHINK	PEAK	DETECTOR TRACE
MODEL No.	: MASTER STATION 801 FILTER		
SERIAL No.	: 1082		
MODE	: Tx & 2405MHz (CH. 11)		
SCANS/BAND	: 1		
NOTES			
TEST DATE	: 14 Jul 2010 13:42:12	M. LONGINOTTI	
ANT. POLARIZ.	: HORIZONTAL		

LEVEL dBUL/m

Page 53 of 90

START = 18000

FREQUENCY MHz

STOP = 25000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNIV RCU EMI RUN 5

	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS	PEAK	DETECTOR TRACE
120	MANUFACTURER	TWISTTHINK		
	MODEL No.	MASTER STATION 801 FILTER		
	SERIAL No.	1082		
	MODE	Tx & 2405MHz (CH. 11)		
105	SCANS/BAND	1		
	NOTES			
	TEST DATE	14 Jul 2010 13:38:55	M. LONGINOTTI	
90	ANT. POLARIZ.	VERTICAL		

LEVEL dBUL/m

120  
105  
90  
75  
60  
45  
30  
15  
0

START = 18000

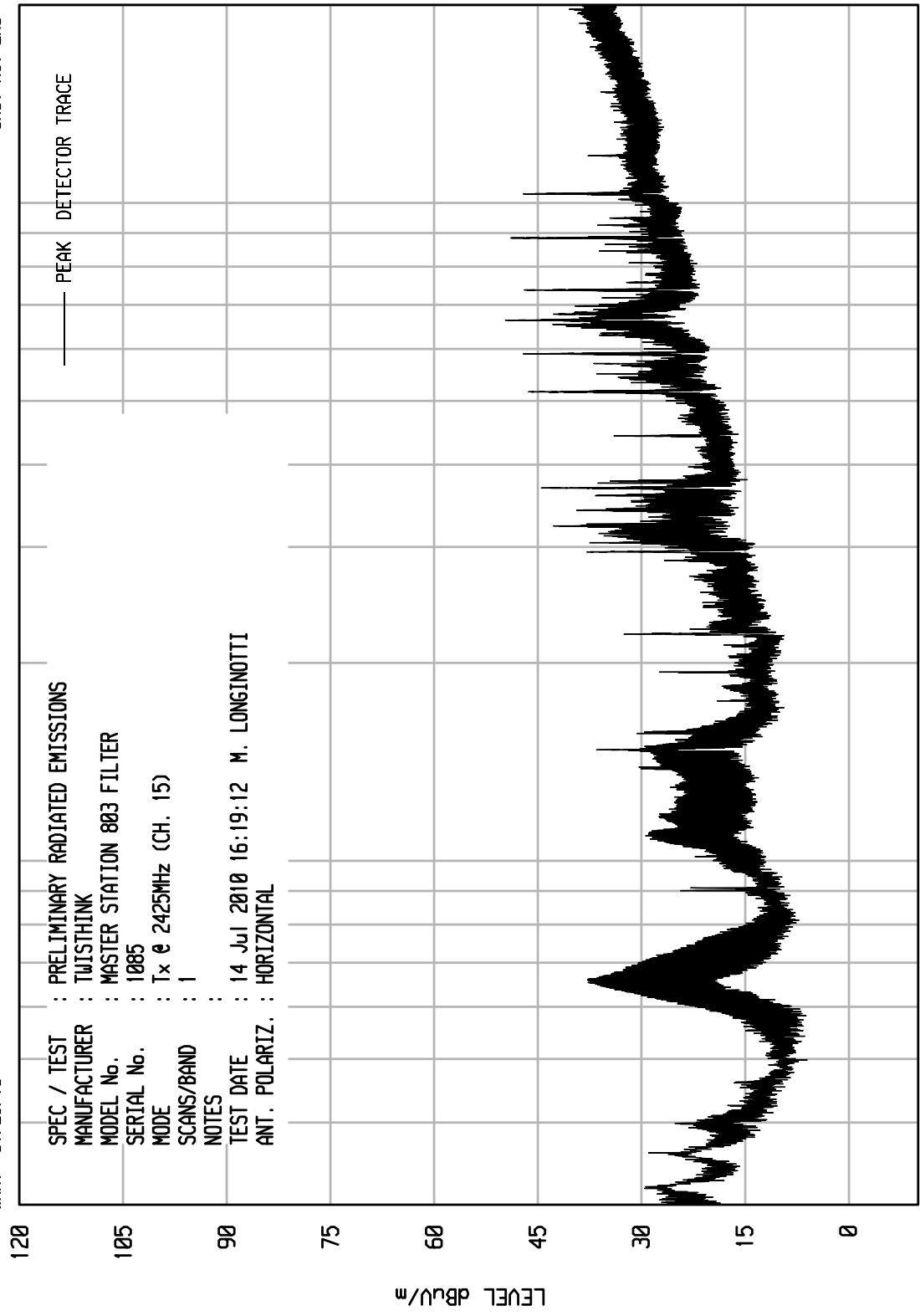
FREQUENCY MHz

STOP = 25000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNI U RCU EMI RUN 4

WKAI	01/25/10	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
MANUFACTURER		MANUFACTURER	TWISTTHINK
MODEL No.		MASTER STATION	803 FILTER
SERIAL No.	1085		
MODE		Tx & 2425MHz (CH. 15)	
SCANS/BAND			1
NOTES			
TEST DATE	14 Jul 2010 16:19:12	M.	LONGINOTTI
ANT. POLARIZ.	: HORIZONTAL		



START = 30

100

FREQUENCY MHz

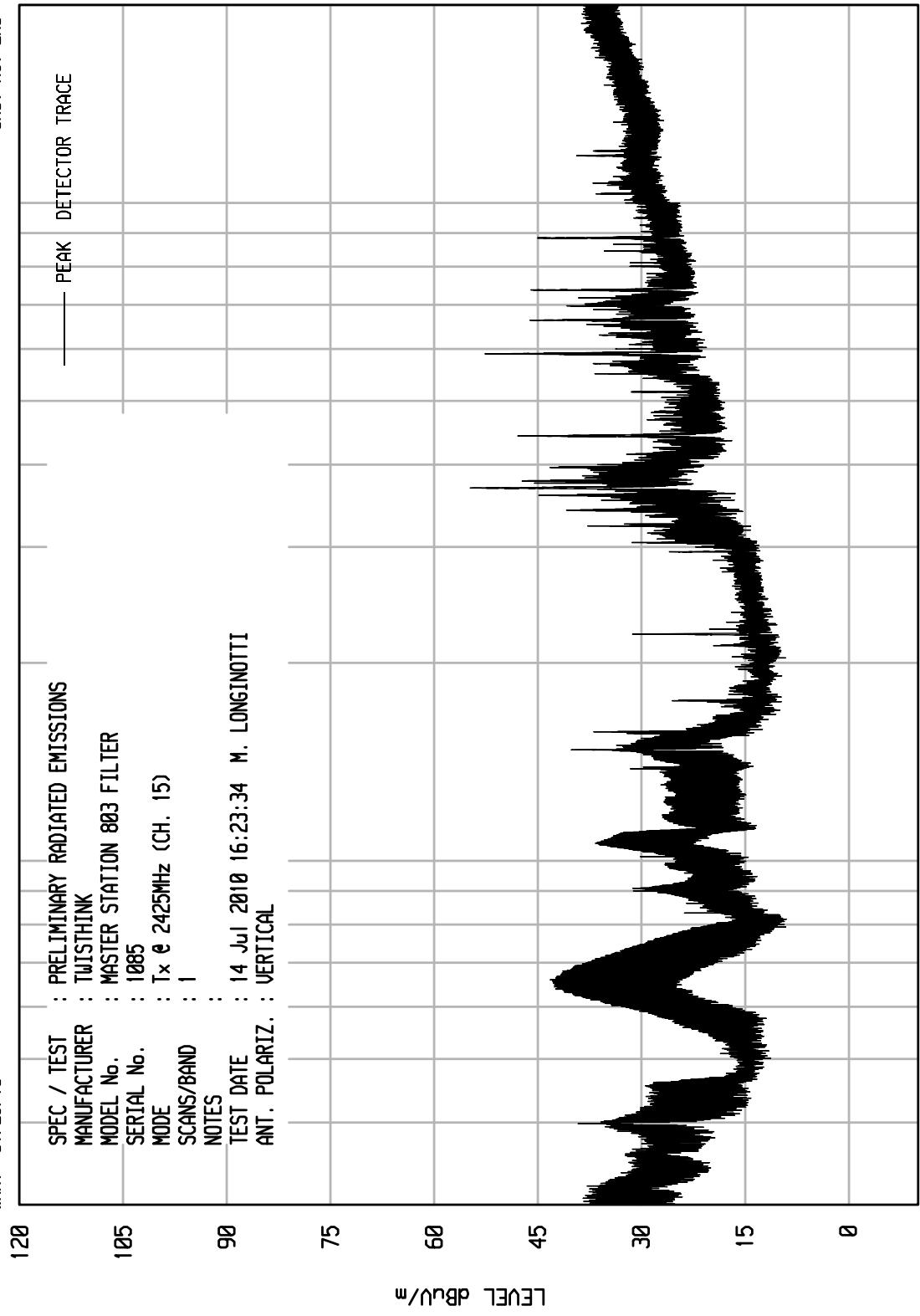
1000

STOP = 2000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNIV RCU EMI RUN 5

WKAI	01/25/10	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
MANUFACTURER	TWISTTHINK	MODE	MASTER STATION 803 FILTER
MODEL No.	1085	SERIAL No.	1085
SCANS/BAND	Tx @ 2425MHz (CH. 15)	NOTES	1
TEST DATE	14 Jul 2010 16:23:34	ANT. POLARIZ.	M. LONGINOTTI : VERTICAL

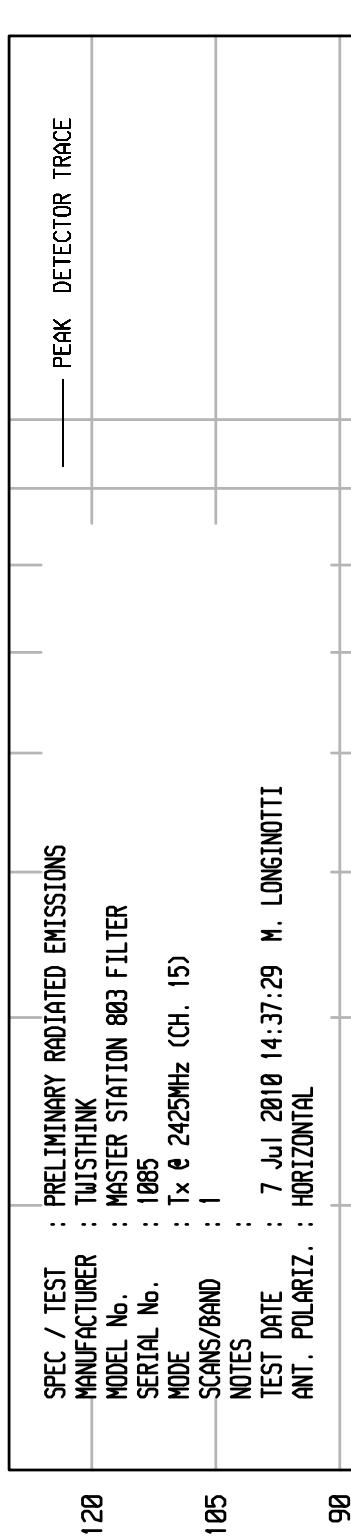


ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNIT RCU EMI RUN 9

SPEC / TEST	PRELIMINARY RADIATED EMISSIONS	
MANUFACTURER	TWISTTHINK	
MODEL No.	MASTER STATION 803 FILTER	
SERIAL No.	1085	
MODE	Tx & 2425MHz (CH. 15)	
SCANS/BAND	1	
NOTES		
TEST DATE	7 Jul 2010 14:37:29 M. LONGINOTTI	
ANT. POLARIZ.	HORIZONTAL	



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNITU RCU EMI RUN 8

	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
120	MANUFACTURER	TWISTTHINK
105	MODEL No.	MASTER STATION 803 FILTER
105	SERIAL No.	1085
105	MODE	Tx @ 2425MHz (CH. 15)
105	SCANS/BAND	1
90	NOTES	
90	TEST DATE	7 Jul 2010 14:32:17 M. LONGINOTTI
90	ANT. POLARIZ.	VERTICAL

LEVEL dBUL/m

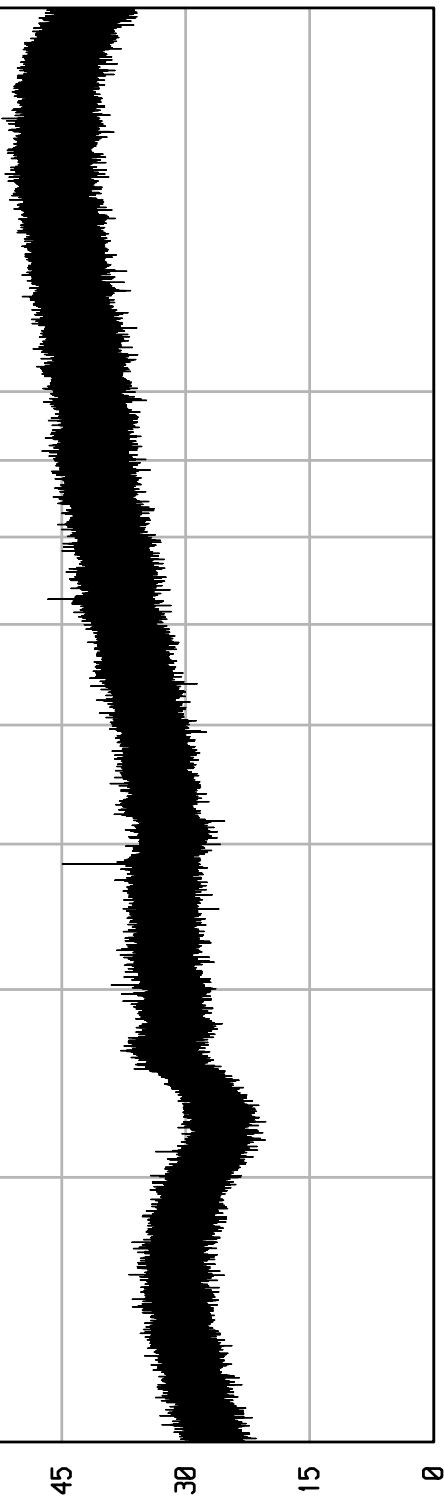
Page 58 of 90

START = 2000

10000

FREQUENCY MHz

STOP = 18000



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNIT RCU EMI RUN 3

	SPEC / TEST	: PRELIMINARY RADIATED EMISSIONS	PEAK	DETECTOR TRACE
120	MANUFACTURER	: TWISTTHINK		
	MODEL No.	: MASTER STATION 803 FILTER		
	SERIAL No.	: 1085		
105	MODE	: Tx & 2425MHz (CH. 15)		
	SCANS/BAND	: 1		
105	NOTES			
	TEST DATE	: 14 Jul 2010 13:32:37	M. LONGINOTTI	
	ANT. POLARIZ.	: HORIZONTAL		

LEVEL dBUL/m

Page 59 of 90

START = 18000

FREQUENCY MHz

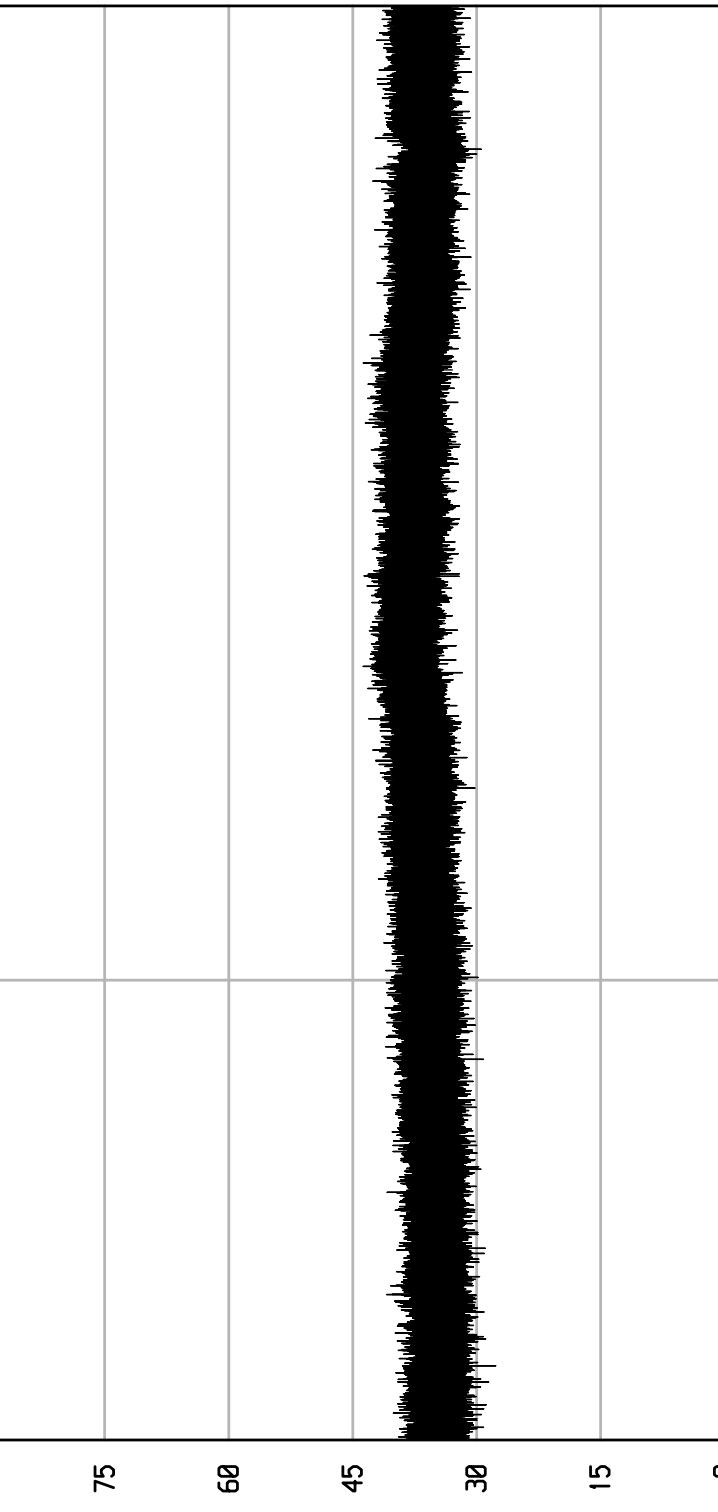
STOP = 25000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/25/10

UNI TU RCU EMI RUN 4

	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS	PEAK	DETECTOR TRACE
120	MANUFACTURER	TWISTTHINK		
	MODEL No.	MASTER STATION 803 FILTER		
	SERIAL No.	1085		
	MODE	Tx & 2425MHz (CH. 15)		
105	SCANS/BAND	1		
	NOTES			
	TEST DATE	14 Jul 2010 13:35:49	M. LONGINOTTI	
	ANT. POLARIZ.	VERTICAL		



START = 18000

STOP = 25000