



FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

INTENTIONAL RADIATOR

of

iJET WIRELESS RF REMOTE CONTROL

FCC ID Number : IKQIPRFES

Trade Name : Evolution

Model Number : IPRFES

Agency Series : N/A

Report Number : 50727211-RP1

Date : August 31, 2005

Prepared to :

Scosche Industries Inc.

1550 Pacific Ave Oxnard

CA 93033

Prepared by :

Compliance Certification Services Inc.

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME : Scosche Industries Inc.
1550 Pacific Ave Oxnard
CA 93033

CONTACT PERSON : Jessica Chang

TELEPHONE NO. : (800) 621-3695

EUT DESCRIPTION : iJET WIRELESS RF REMOTE CONTROL

MODEL NAME/NUMBER : IPRFES

FCC ID : IKQIPRFES

DATE TESTED : August 23, 2005 ~ August 25, 2005

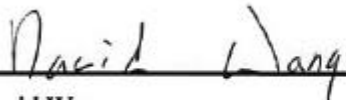
REPORT NUMBER : 50727211-RP1

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (INTENTIONAL RADIATOR)
EQUIPMENT TYPE	iJET WIRELESS RF REMOTE CONTROL
MEASUREMENT PROCEDURE	ANSI 63.4 / 2003
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15


The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services Inc. will constitute fraud and shall nullify the document.

Approved by:

Reviewed by:



David Wang
Manager of Hsintien Laboratory
Compliance Certification Services Inc.



Vince Chiang
Assistant Manager of Hsintien Laboratory
Compliance Certification Services Inc.



2. PRODUCT DESCRIPTION

Fundamental Frequency	433.92MHz
Power Source	3V Battery
Transmitting Time	Periodic \leq 5 seconds
Associated Receiver	iJet mini RX (DoC)

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 165, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/2003.

5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)

**6. MEASUREMENT EQUIPMENT USED**

Open Area Test Site # H				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
SITE NSA	CCS	H Site	N/A	09/11/2005
MEASURE RECEIVER	SCHAFFNER	SCR3501	341	09/02/2005
SPECTRUM ANALYZER	ADVANTEST	R3132	120900002	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2801	09/24/2005
AMPLIFIER	SCHAFFNER	CPA9231A	3613	10/08/2005
CABLE	SUHNER	RG 214	N-TYPE#H2	12/03/2005
THERMO-HYGRO METER	TFA	N/A	NO.1	12/22/2005
Above 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	06/30/2006
ANTENNA (1-18GHz)	EMCO	3115	5761	01/17/2006
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	02/16/2006
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1&2	02/16/2006
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	04/28/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

7. POWERLINE RFI LIMIT

CONNECTED TO AC POWER LINE	SECTION 15.207
CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 KHz TO 30 MHz	SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE.
BATTERY POWER	NO REQUIRED.

8. RADIATED EMISSION LIMITS

GENERAL REQUIREMENTS	SECTION 15.209
RESTRICTED BANDS OF OPERATION	SECTION 15.205
PERIODIC OPERATION IN THE BAND 40.66 -40.70 MHz AND ABOVE 70 MHz.	SECTION 15.231

9. SYSTEM TEST CONFIGURATION

Use a block of foam and combined it with EUT wrapping rubber band around it. This way it can test X, Y and Z axis. To activate continuous transmitting & receiving, place a small plastic block between rubber band and EUT push button.



Radiated Open Site Test Set-up

10. TEST PROCEDURE

Radiated Emissions, 15.231(4)(b)

Test Set-up for frequency range 30 – 1000 MHz

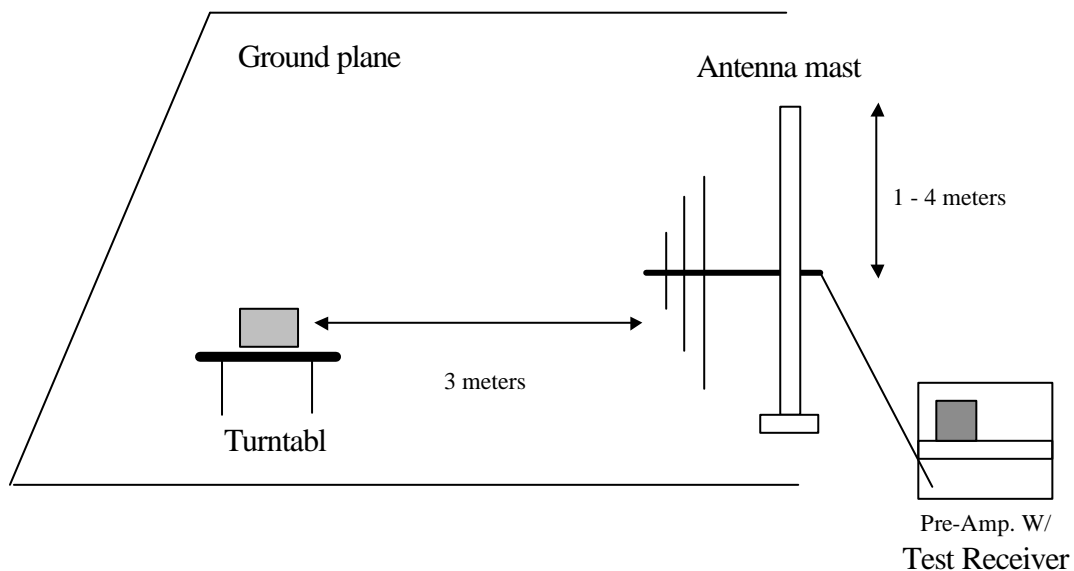


Fig. 1

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3-meters from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

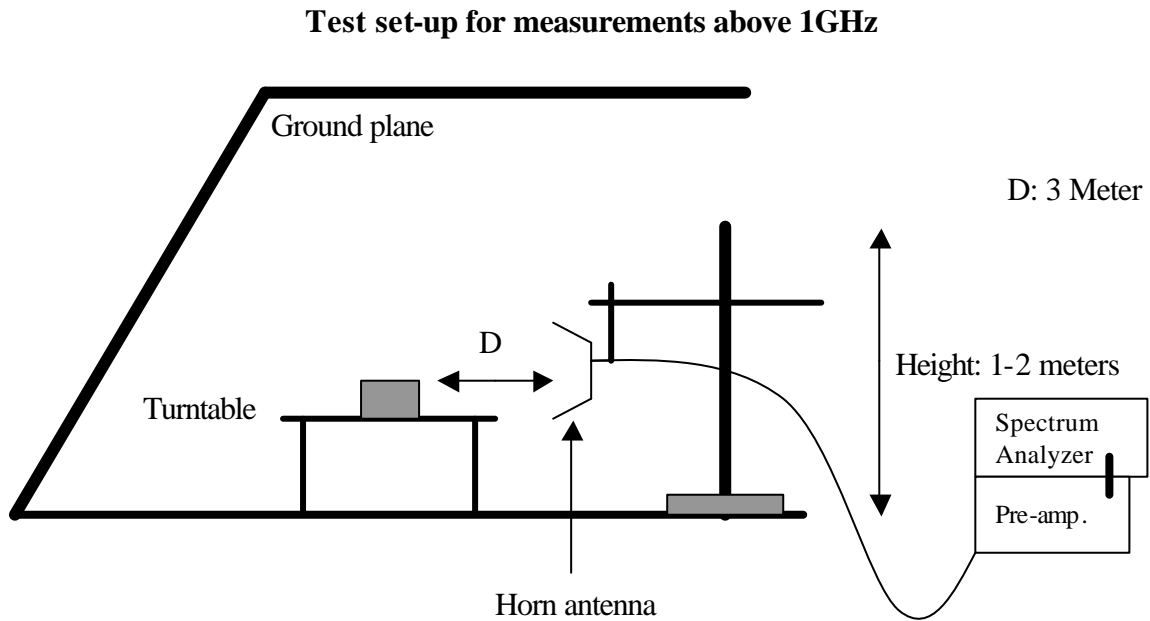


Fig. 2

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 1-meters from the EUT. The EUT antenna was mounted vertically as per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

11. Equipment Modifications

To achieve compliance to FCC Section 15.231 technical limits, the following change(s) were made during compliance testing:

NONE



12. TEST RESULT

Powerline RFI Class B	Eut	Radiated Emission Limits	Eut
SECTION 15.207		SECTION 15.209	X
SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227		SECTION 15.205	
BATTERY POWER	X	SECTION 15.231 (b)	X
		SECTION 15.231 (e)	

12.1 Maximum Modulation Percentage (M%)

CALCULATION:

$$\text{Average Reading} = \text{Peak Reading (dBuV/m)} + 20\log (\text{Duty Cycle})$$

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT. We measured:

	Tp (ms)	Ton (ms)	M% = (Ton/Tp)*100%	C.F. = 20*log(M%)
Button#1	29.35	7*0.45+34*0.21 = 10.28	35.05	-9.1038 dB
Button#2	29.40	7*0.40+34*0.16=8.24	28.03	-11.048dB
Button#3	29.35	5*0.44+0.19*38=9.42	32.10	-9.8699dB
Button#4	29.45	6*0.40+36*0.16=8.16	27.71	-11.147dB
Button#5	29.35	8*0.42+32*0.16=8.48	28.89	-10.785dB

12.2 The Emissions Bandwidth

The bandwidth of the emissions were investigated per 15.231(c)

Frequency (MHz)	Botton#1 BW (kHz)	Botton#2 BW (kHz)	Botton#3 BW (kHz)	Botton#4 BW (kHz)	Botton#5 BW (kHz)	Limit (MHz)	Result
433.92	474.00	412.00	408.00	433.85	428.00	1.0848	PASS



APPENDIX I

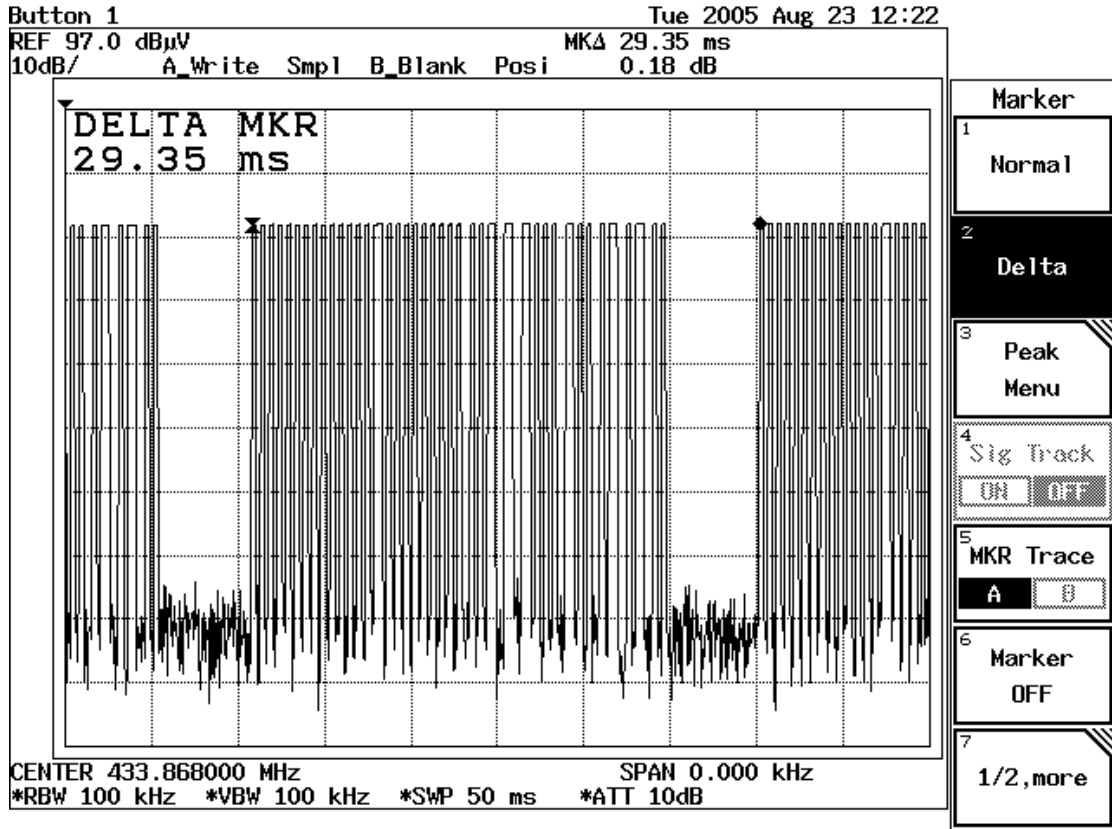
TEST DATA



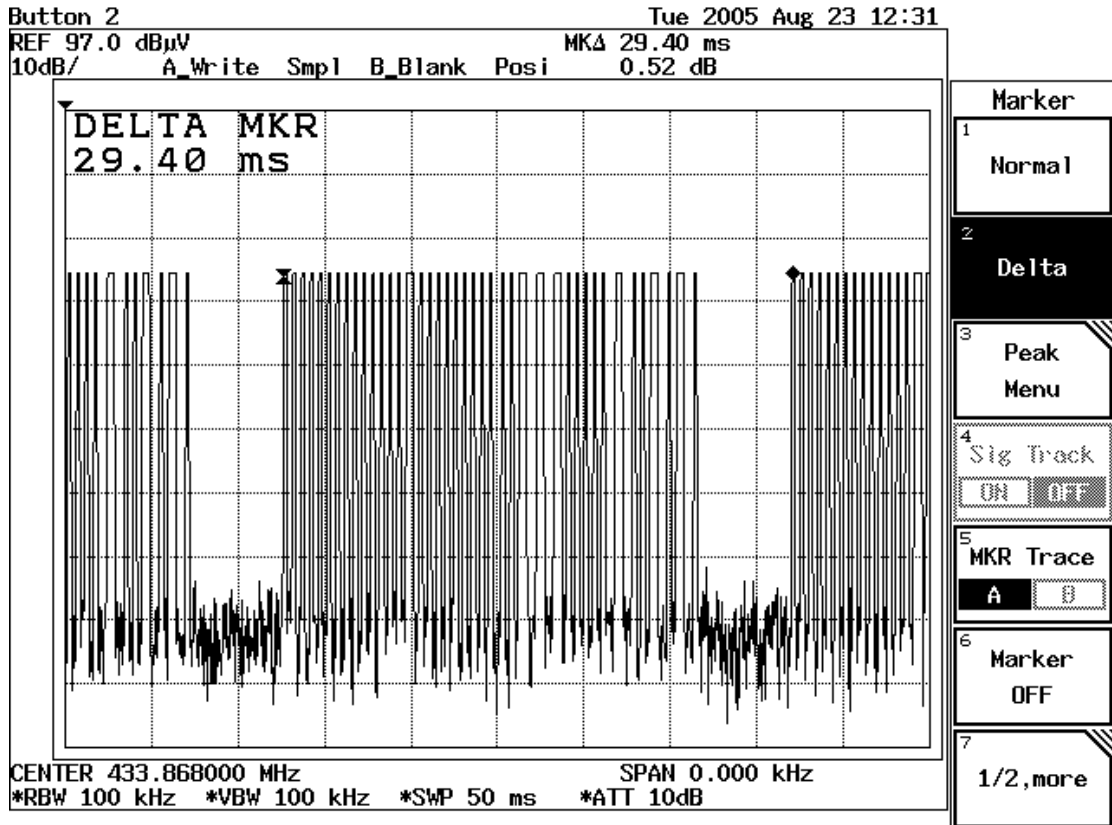
Test Plot: Maximum Modulation Percentage (M%)

Tp

Button#1



Button#2

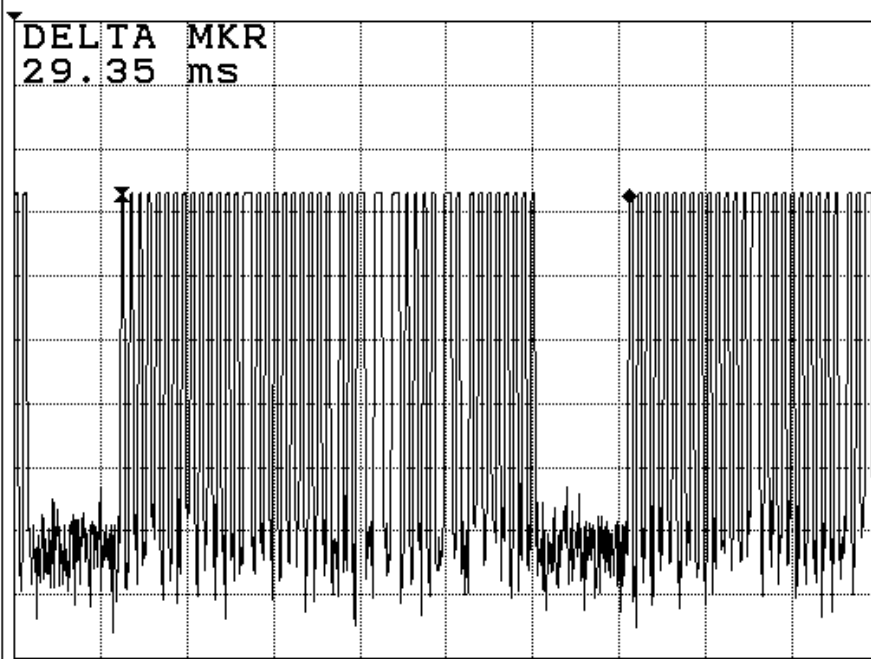




Button#3

Button 3 Tue 2005 Aug 23 12:38

REF 97.0 dB μ V MK Δ 29.35 ms
10dB/ A_Write Smpl B_Blank Posi -0.25 dB



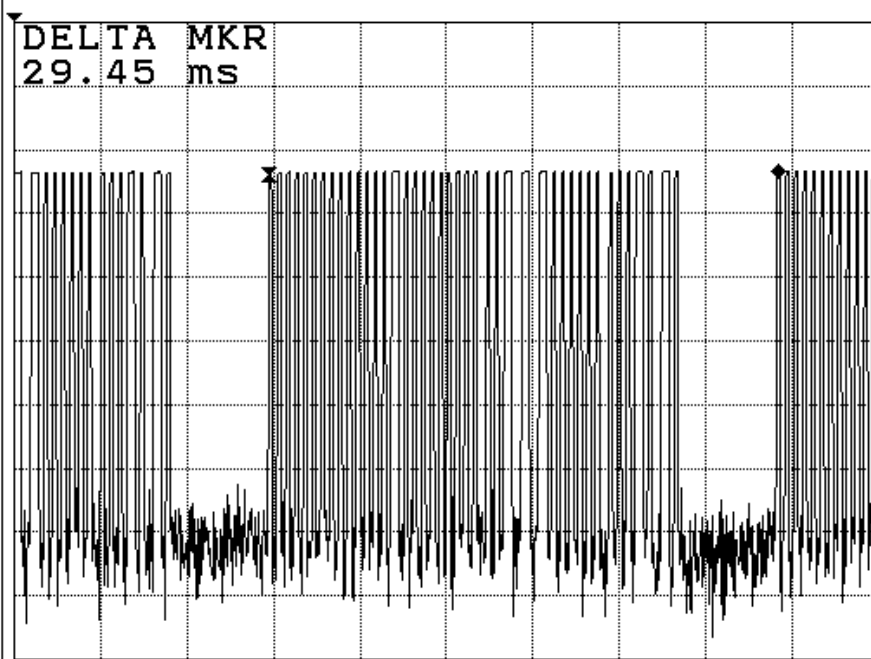
CENTER 433.878000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 50 ms *ATT 10dB

Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Button#4

Button 4 Tue 2005 Aug 23 12:44

REF 97.0 dB μ V MK Δ 29.45 ms
10dB/ A_Write Smpl B_Blank Posi 0.41 dB



CENTER 433.854000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 50 ms *ATT 10dB

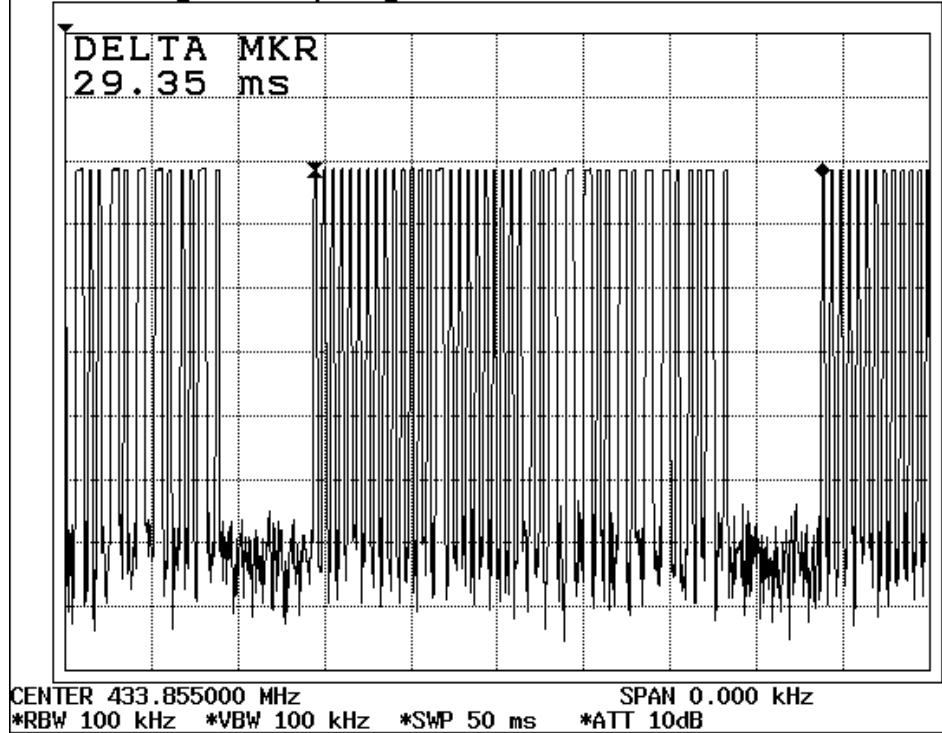
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more



Button#5

Button 5 Tue 2005 Aug 23 12:53

REF 97.0 dB μ V MK Δ 29.35 ms
10dB/ A_Write Smpl B_Blank Posi -0.16 dB



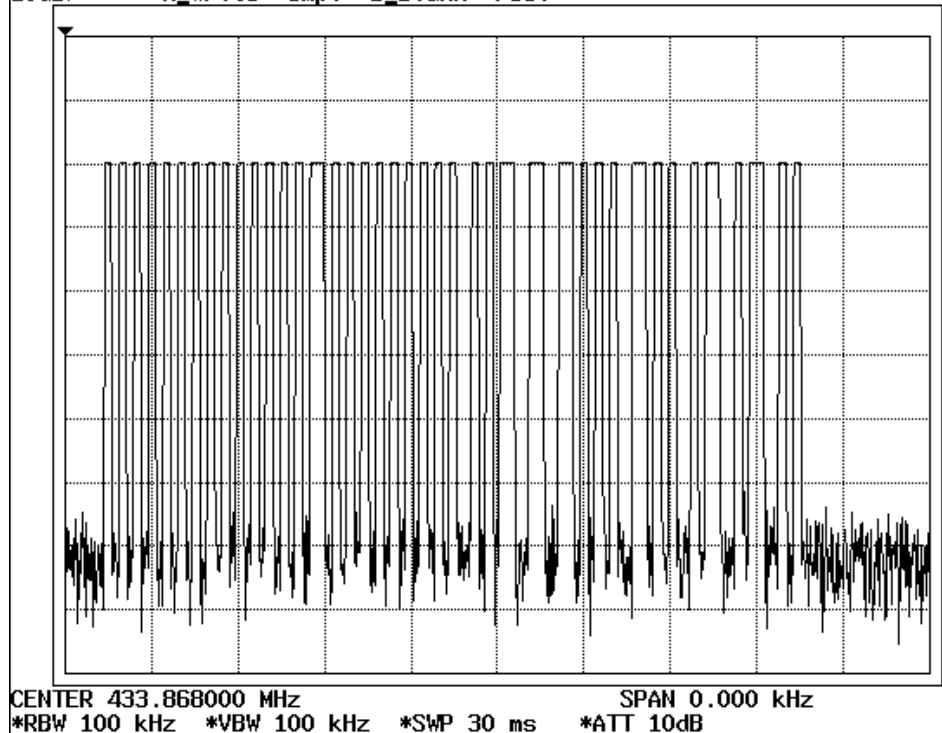
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Channel Number

Button#1

Button 1 Tue 2005 Aug 23 12:23

REF 97.0 dB μ V
10dB/ A_Write Smpl B_Blank Posi



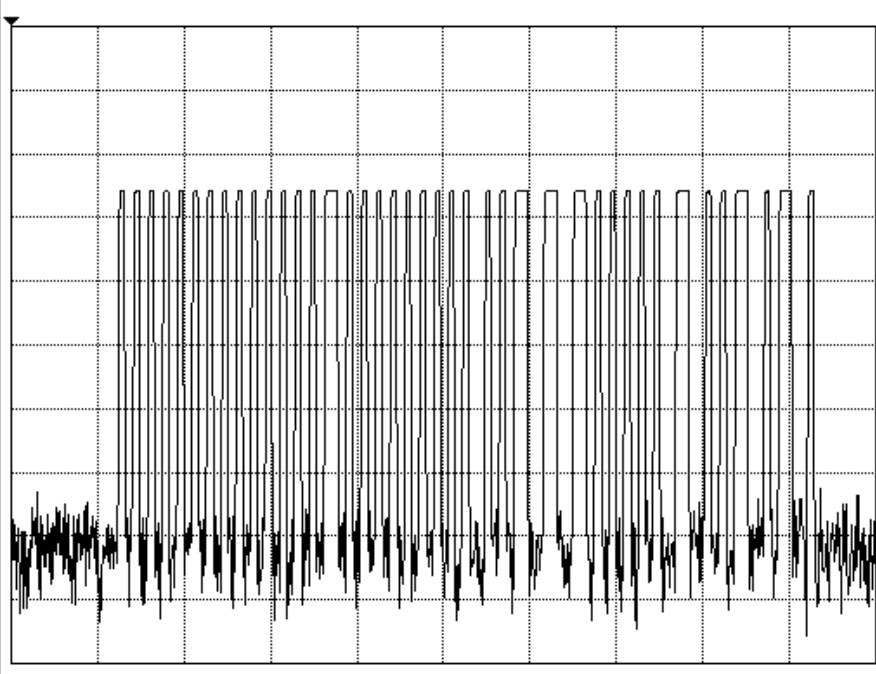
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more



Button#2

Button 2 Tue 2005 Aug 23 12:32

REF 97.0 dBμV
10dB/ A_Write Smpl B_Blank Posi



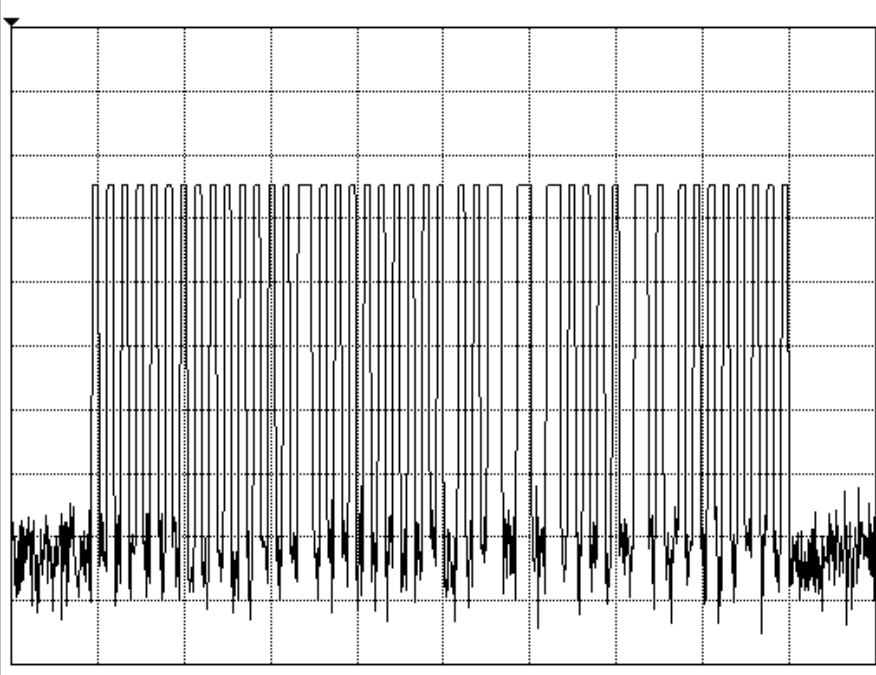
CENTER 433.868000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 30 ms *ATT 10dB

Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Button#3

Button 3 Tue 2005 Aug 23 12:38

REF 97.0 dBμV
10dB/ A_Write Smpl B_Blank Posi



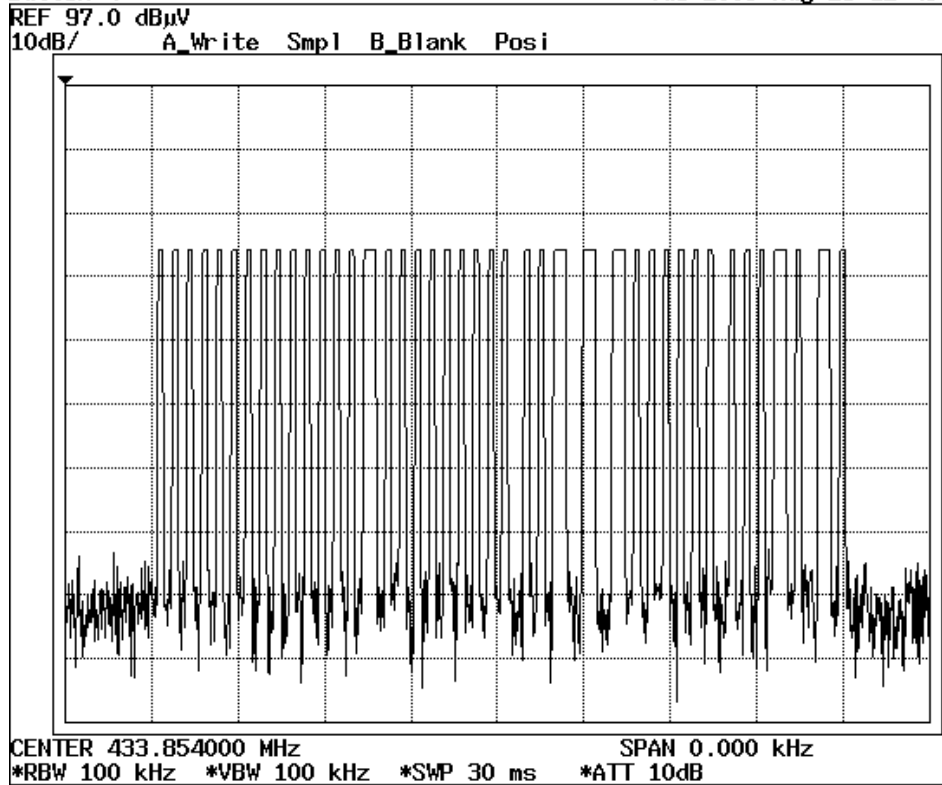
CENTER 433.878000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 30 ms *ATT 10dB

Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more



Button#4

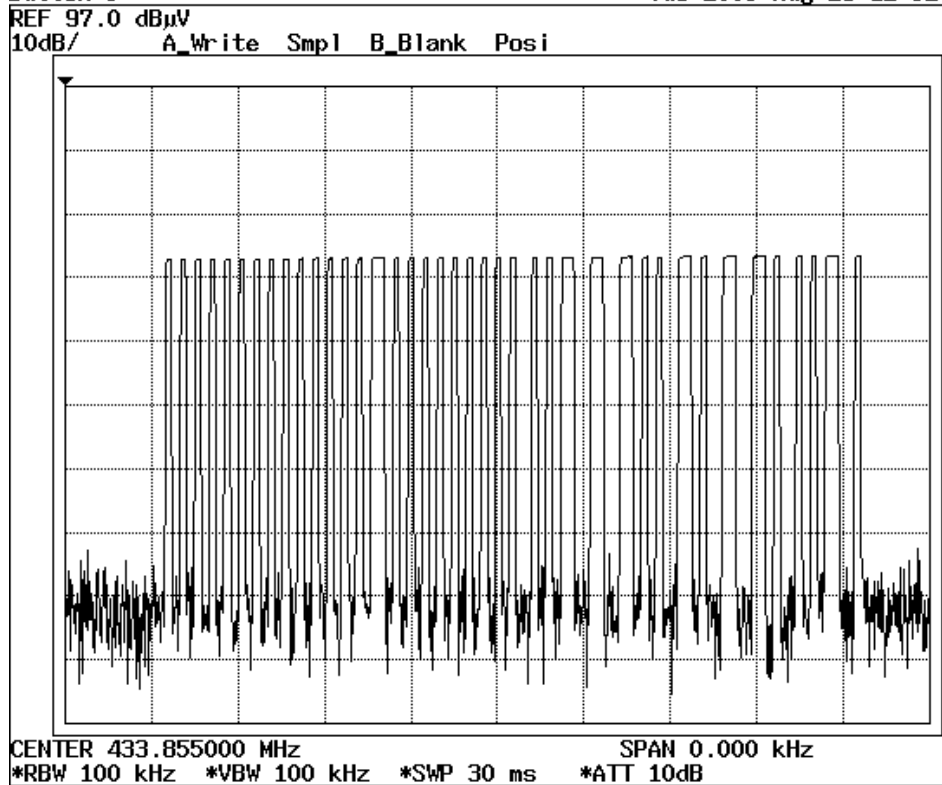
Button 4 Tue 2005 Aug 23 12:45



Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Button#5

Button 5 Tue 2005 Aug 23 12:52



Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

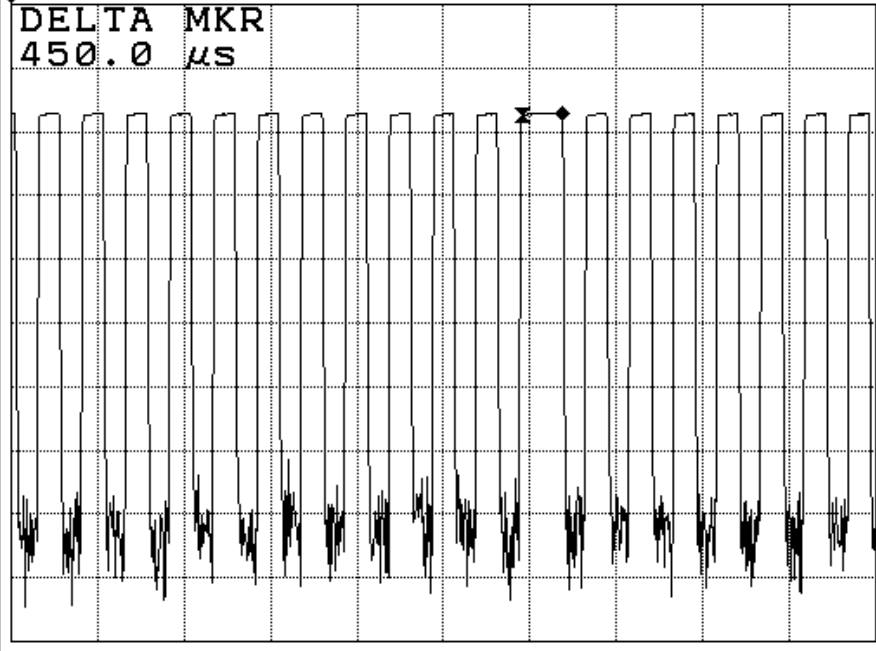


Ton

Button#1

Button 1 Tue 2005 Aug 23 12:24

REF 97.0 dBμV MKΔ 450.0 μs
10dB/ A_Write Smpl B_Blank Posi 0.15 dB



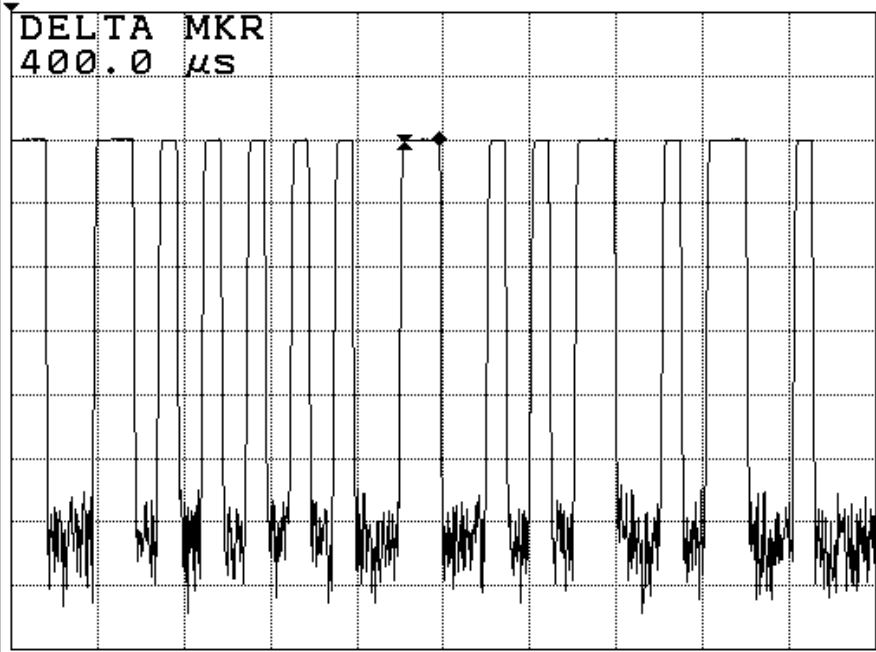
CENTER 433.868000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Button#2

Button 2 Tue 2005 Aug 23 12:33

REF 97.0 dBμV MKΔ 400.0 μs
10dB/ A_Write Smpl B_Blank Posi 0.33 dB



CENTER 433.868000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

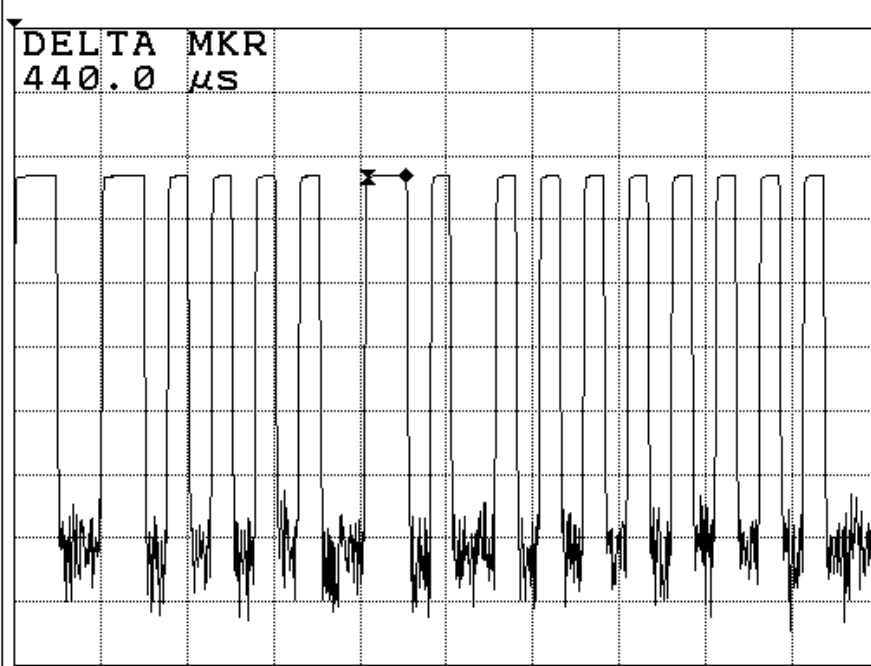
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more



Button#3

Button 3 Tue 2005 Aug 23 12:39

REF 97.0 dB μ V MK Δ 440.0 μ s
10dB/ A_Write Smp1 B_Blank Posi 0.23 dB



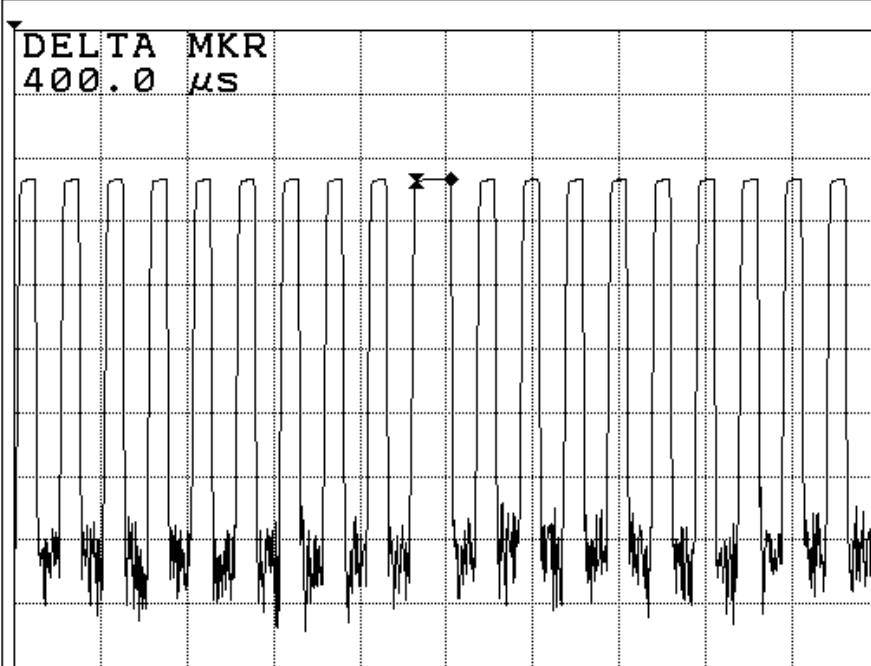
CENTER 433.878000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Button#4

Button 4 Tue 2005 Aug 23 12:45

REF 97.0 dB μ V MK Δ 400.0 μ s
10dB/ A_Write Smp1 B_Blank Posi 0.30 dB



CENTER 433.854000 MHz SPAN 0.000 kHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

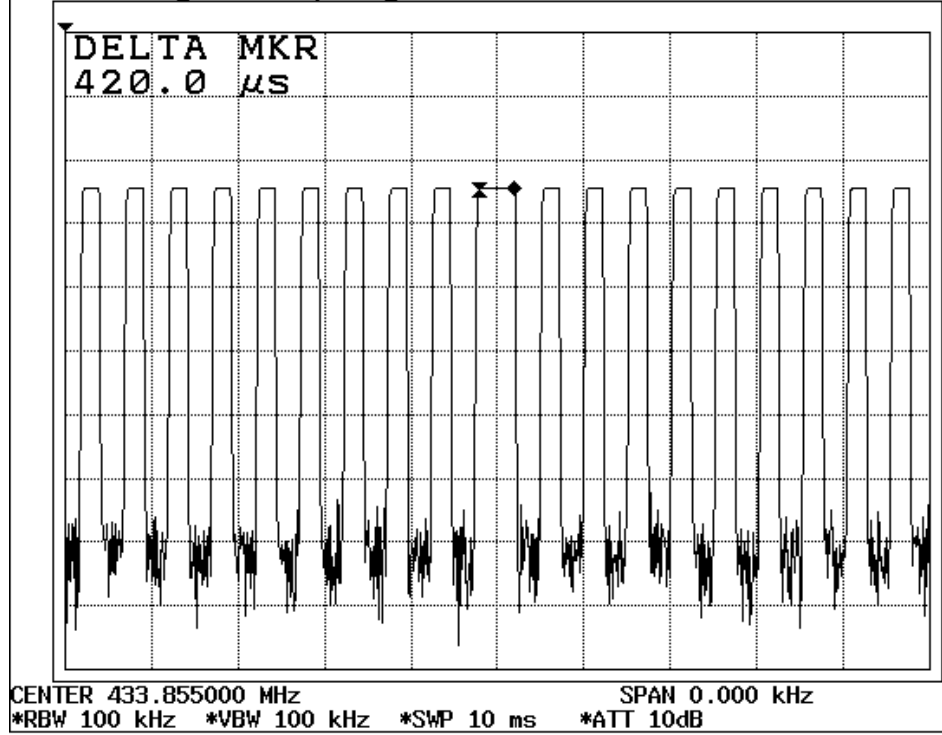
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more



Button#5

Button 5 Tue 2005 Aug 23 12:50

REF 97.0 dB μ V MK Δ 420.0 μ s
10dB/ A_Write Smpl B_Blank Posi 0.29 dB



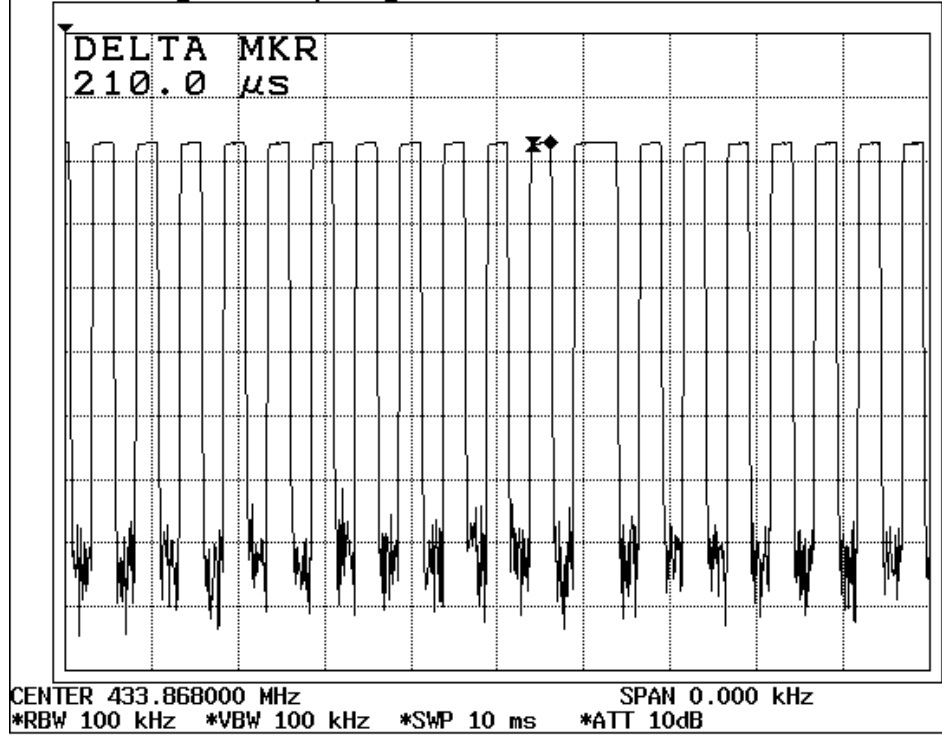
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more

Ton

Button#1

Button 1 Tue 2005 Aug 23 12:25

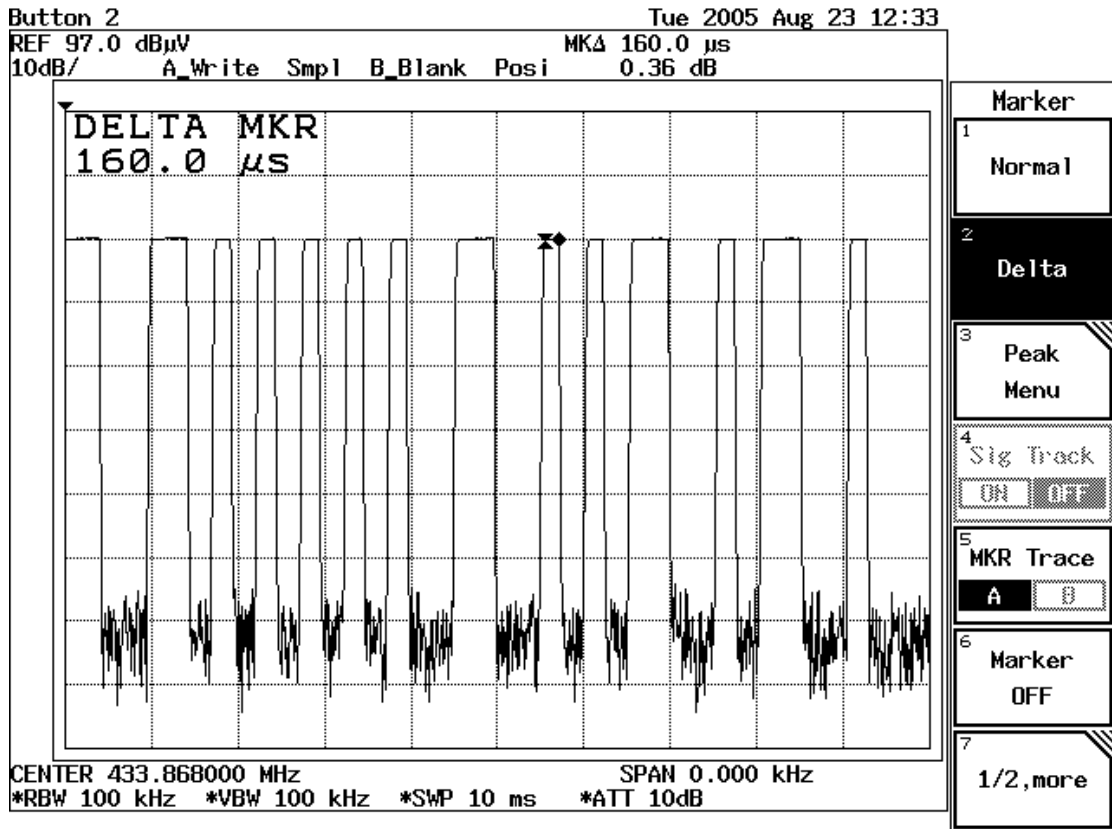
REF 97.0 dB μ V MK Δ 210.0 μ s
10dB/ A_Write Smpl B_Blank Posi 0.13 dB



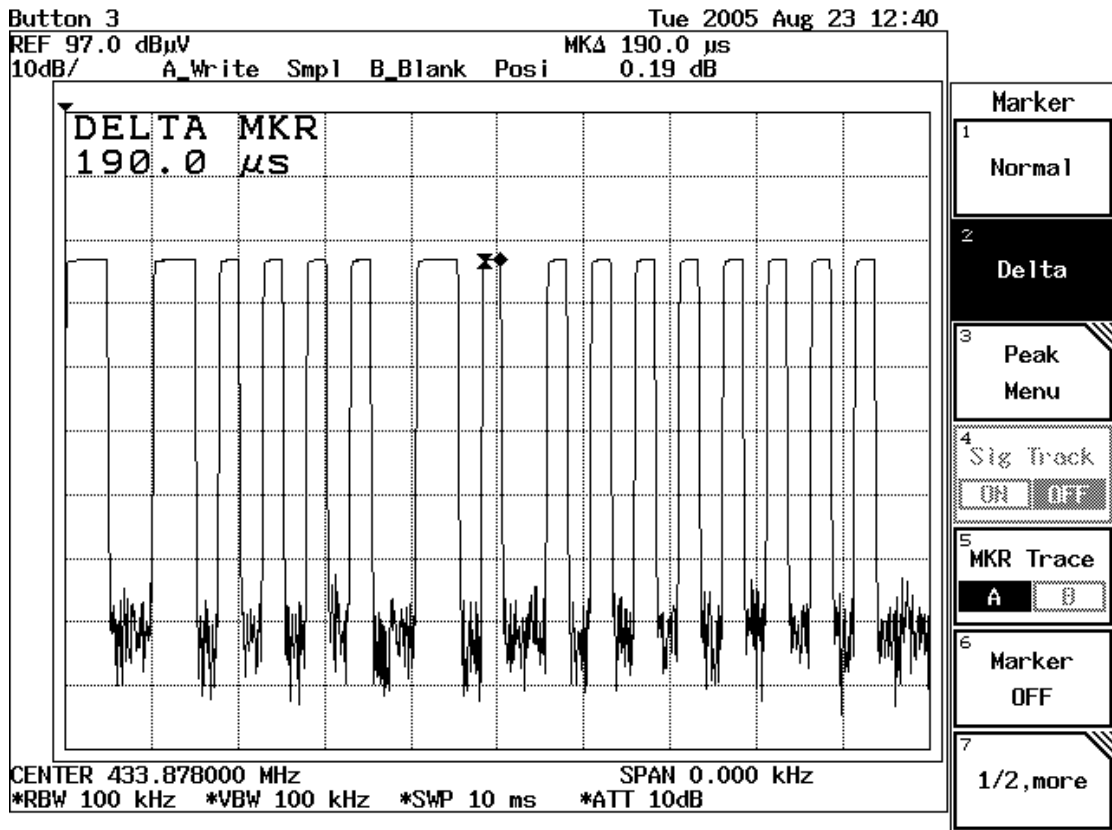
Marker
1 Normal
2 Delta
3 Peak Menu
4 Sig Track ON OFF
5 MKR Trace A B
6 Marker OFF
7 1/2,more



Button#2

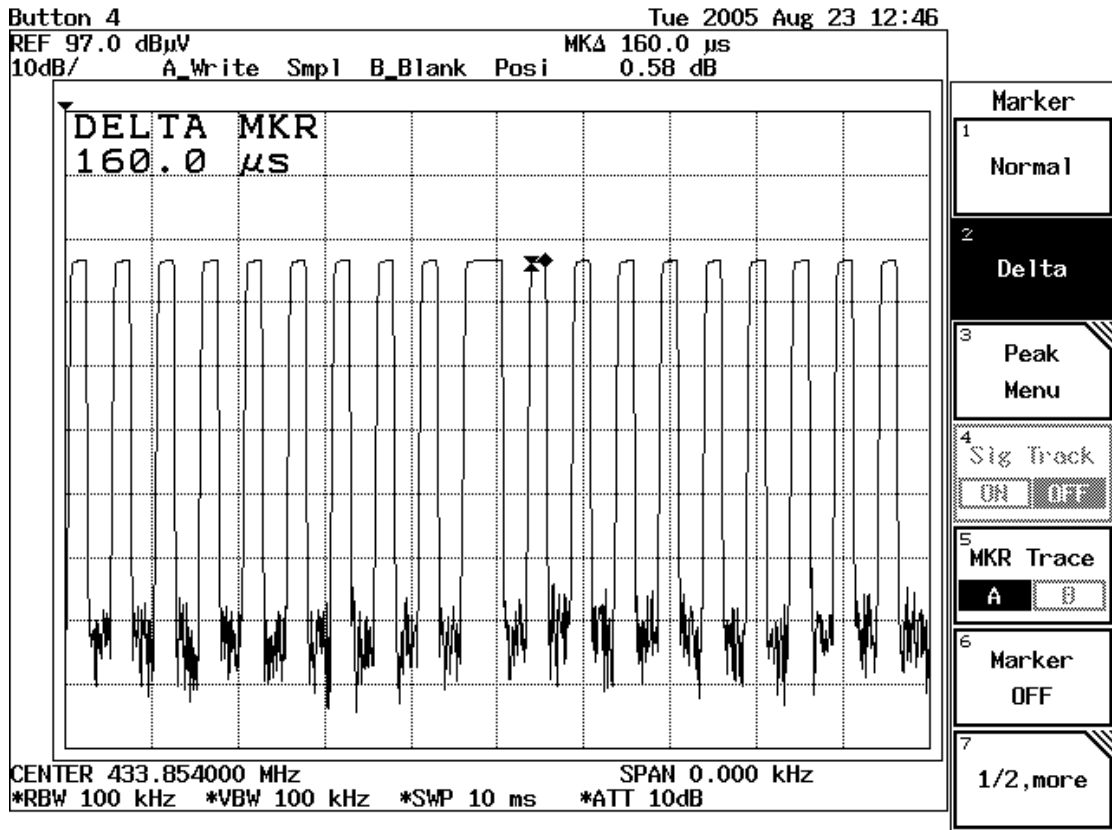


Button#3

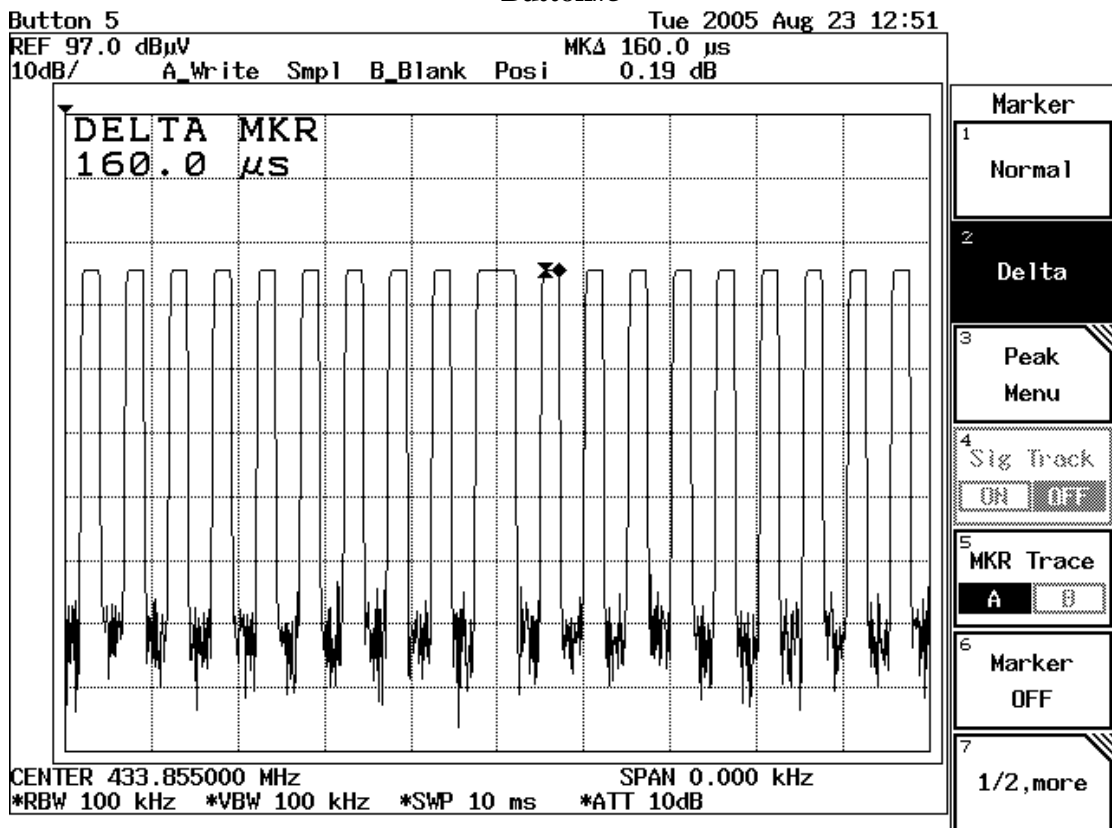




Button#4



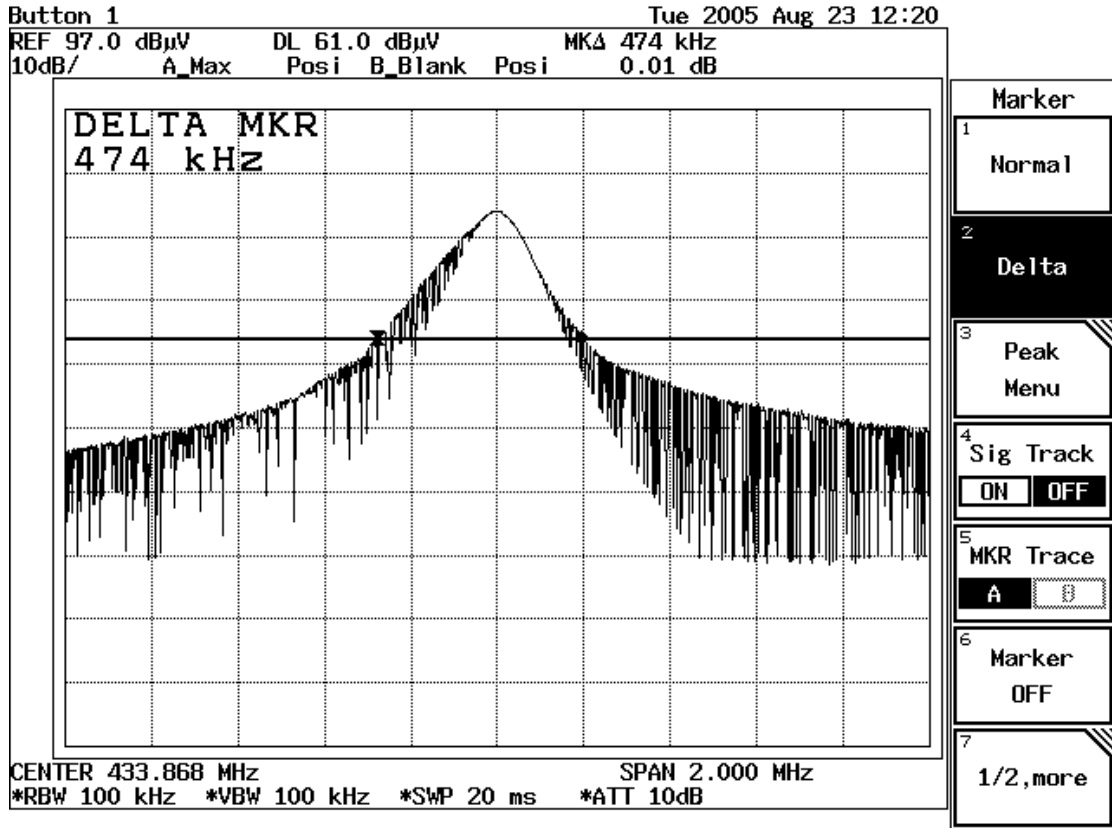
Button#5



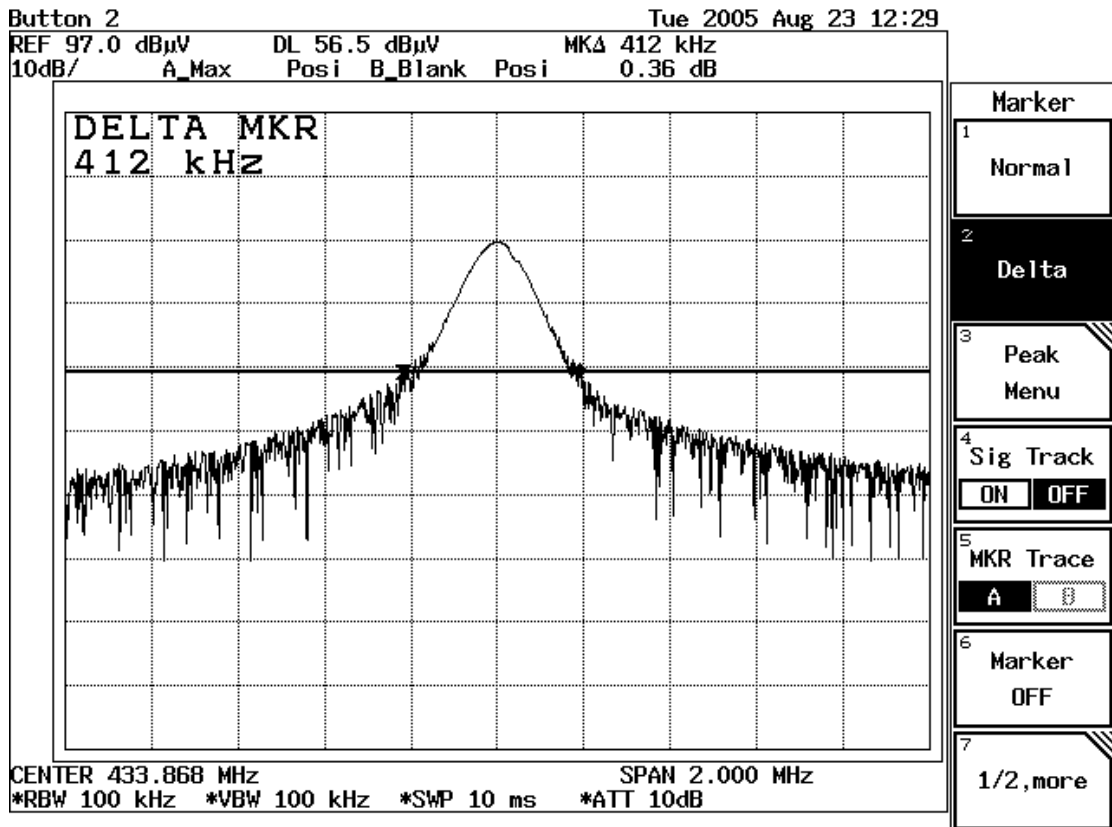


Test Plot: The Emissions Bandwidth

Button#1



Button#2



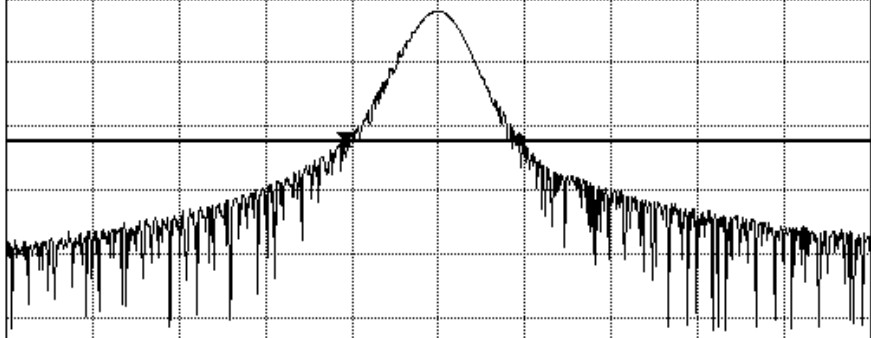


Button#3

Button 3 Tue 2005 Aug 23 12:36

REF 97.0 dBµV DL 55.0 dBµV MKΔ 408 kHz
10dB/ A_Max Posi B_Blank Posi 0.04 dB

DELTA MKR
408 kHz



CENTER 433.878 MHz SPAN 2.000 MHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

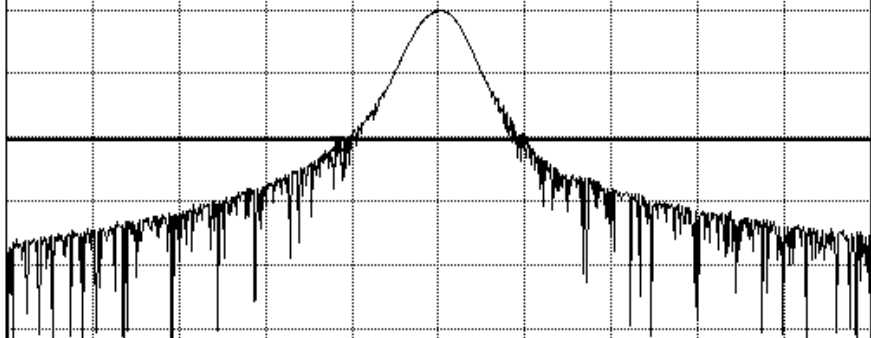
Marker	
1	Normal
2	Delta
3	Peak Menu
4	Sig Track ON OFF
5	MKR Trace A B
6	Marker OFF
7	1/2,more

Button#4

Button 4 Tue 2005 Aug 23 12:43

REF 97.0 dBµV DL 56.8 dBµV MKΔ 428 kHz
10dB/ A_Max Posi B_Blank Posi 0.45 dB

CENTER
433.854 MHz



CENTER 433.854 MHz SPAN 2.000 MHz
*RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

Freq	
1	Center
2	Start
3	Stop
4	CF Step AUTO MNL
5	Freq Offset ON OFF
6	Channel Setting

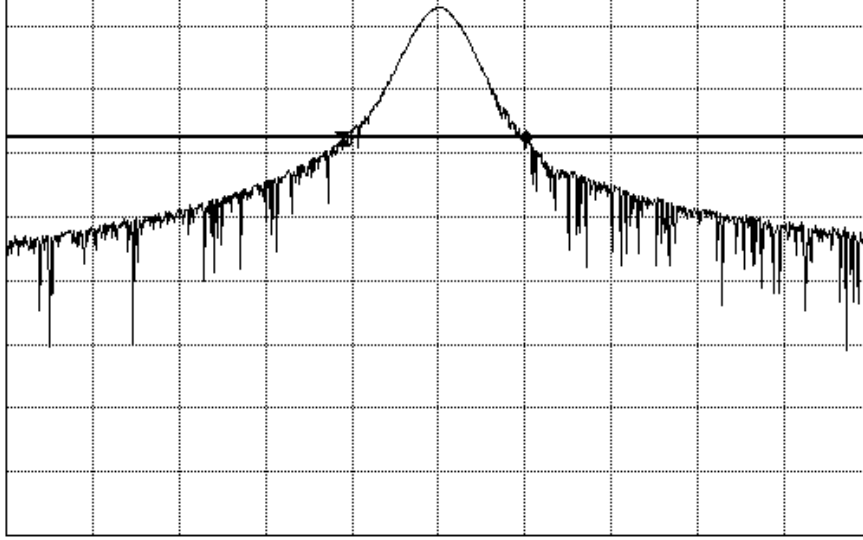


Button#5

Button 5 Tue 2005 Aug 23 12:49

REF 97.0 dBμV	DL 59.8 dBμV	MKΔ 428 kHz
10dB/	A_Max	Posi B_Blank Posi
		0.13 dB

DELTA MKR
428 kHz



CENTER 433.855 MHz SPAN 2.000 MHz
 *RBW 100 kHz *VBW 100 kHz *SWP 10 ms *ATT 10dB

Marker	
1	Normal
2	Delta
3	Peak Menu
4	Sig Track <input type="checkbox"/> ON <input checked="" type="checkbox"/> OFF
5	MKR Trace <input checked="" type="checkbox"/> A <input type="checkbox"/> B
6	Marker OFF
7	1/2,more

**TEST RESULTS****Below 1 GHz****Operation Mode:** TX Mode / Button#1 / WORST**Test Date:** August 25, 2005**Temperature:** 35°C**Humidity:** 55% RH**Tested by:** Alex Pan

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.84	60.34	51.24	-5.31	45.93	80.82	-34.90	3mV_X
867.71	45.99	36.89	2.10	38.99	60.82	-21.83	3mV_X
433.84	74.33	65.23	-5.31	59.92	80.82	-20.90	3mV_Y
867.69	58.64	49.54	2.10	51.64	60.82	-9.18	3mV_Y
433.85	72.20	63.10	-5.31	57.79	80.82	-23.03	3mV_Z
867.69	54.03	44.93	2.10	47.03	60.82	-13.79	3mV_Z
433.84	73.64	64.54	-5.31	59.23	80.82	-21.59	3mH_X
867.69	64.21	55.11	2.10	57.21	60.82	-3.61	3mH_X
433.84	64.25	55.15	-5.31	49.84	80.82	-30.98	3mH_Y
867.70	48.62	39.52	2.10	41.62	60.82	-19.20	3mH_Y
433.84	67.94	58.84	-5.31	53.53	80.82	-27.29	3mH_Z
867.71	55.63	46.53	2.10	48.63	60.82	-12.19	3mH_Z
<i>Factor = Antenna Factor + Cable Loss - Pre Amplifier</i>							
<i>Av Rdg = Pk Rdg -9.1038dB</i>							

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button#2**Test Date:** August 25, 2005**Temperature:** 35°C**Humidity:** 55% RH**Tested by:** Alex Pan

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.85	61.17	50.12	-5.31	44.81	80.82	-36.01	3mV_X
867.69	47.58	36.53	2.10	38.63	60.82	-22.19	3mV_X
433.84	75.58	64.53	-5.31	59.22	80.82	-21.60	3mV_Y
867.69	60.39	49.34	2.10	51.44	60.82	-9.38	3mV_Y
433.84	74.30	63.25	-5.31	57.94	80.82	-22.88	3mV_Z
867.69	55.03	43.98	2.10	46.08	60.82	-14.74	3mV_Z
433.84	74.80	63.75	-5.31	58.44	80.82	-22.38	3mH_X
867.81	66.02	54.97	2.10	57.07	60.82	-3.75	3mH_X
433.84	66.13	55.08	-5.31	49.77	80.82	-31.05	3mH_Y
867.69	49.88	38.83	2.10	40.93	60.82	-19.89	3mH_Y
433.84	70.72	59.67	-5.31	54.36	80.82	-26.46	3mH_Z
867.69	56.20	45.15	2.10	47.25	60.82	-13.57	3mH_Z
<i>Factor = Antenna Factor + Cable Loss - Pre Amplifier</i>							
<i>Av Rdg = Pk Rdg - 11.048dB</i>							

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button#3**Test Date:** August 25, 2005**Temperature:** 35°C**Humidity:** 55% RH**Tested by:** Alex Pan

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.85	60.21	50.34	-5.31	45.03	80.82	-35.79	3mV_X
867.71	46.28	36.41	2.10	38.51	60.82	-22.31	3mV_X
433.84	72.98	63.11	-5.31	57.80	80.82	-23.02	3mV_Y
867.71	59.00	49.13	2.10	51.23	60.82	-9.59	3mV_Y
433.84	72.50	62.63	-5.31	57.32	80.82	-23.50	3mV_Z
867.70	54.35	44.48	2.10	46.58	60.82	-14.24	3mV_Z
433.85	72.41	62.54	-5.31	57.23	80.82	-23.59	3mH_X
867.58	63.84	53.97	2.10	56.07	60.82	-4.75	3mH_X
433.84	65.02	55.15	-5.31	49.84	80.82	-30.98	3mH_Y
867.70	48.32	38.45	2.10	40.55	60.82	-20.27	3mH_Y
433.84	68.59	58.72	-5.31	53.41	80.82	-27.41	3mH_Z
867.70	55.01	45.14	2.10	47.24	60.82	-13.58	3mH_Z

Factor = Antenna Factor + Cable Loss - Pre Amplifier
Av Rdg = Pk Rdg -9.8699dB

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button#4**Test Date:** August 25, 2005**Temperature:** 35°C**Humidity:** 55% RH**Tested by:** Alex Pan

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.85	59.86	48.71	-5.31	43.40	80.82	-37.42	3mV_X
867.70	46.78	35.63	2.10	37.73	60.82	-23.09	3mV_X
433.84	74.33	63.18	-5.31	57.87	80.82	-22.95	3mV_Y
867.70	57.48	46.33	2.10	48.43	60.82	-12.39	3mV_Y
433.84	72.55	61.40	-5.31	56.09	80.82	-24.73	3mV_Z
867.68	53.15	42.00	2.10	44.10	60.82	-16.72	3mV_Z
433.84	72.02	60.87	-5.31	55.56	80.82	-25.26	3mH_X
867.57	62.95	51.80	2.10	53.90	60.82	-6.92	3mH_X
433.84	64.31	53.16	-5.31	47.85	80.82	-32.97	3mH_Y
867.70	48.30	37.15	2.10	39.25	60.82	-21.57	3mH_Y
433.85	67.45	56.30	-5.31	50.99	80.82	-29.83	3mH_Z
867.70	53.82	42.67	2.10	44.77	60.82	-16.05	3mH_Z

Factor = Antenna Factor + Cable Loss - Pre Amplifier
Av Rdg = Pk Rdg - 11.147dB

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button#5**Test Date:** August 25, 2005**Temperature:** 35°C**Humidity:** 55% RH**Tested by:** Alex Pan

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.85	60.05	49.27	-5.31	43.96	80.82	-36.87	3mV
867.72	45.54	34.76	2.10	36.86	60.82	-23.97	3mV
433.85	72.51	61.73	-5.31	56.42	80.82	-24.41	3mV
867.70	59.01	48.23	2.10	50.33	60.82	-10.50	3mV
433.85	72.20	61.42	-5.31	56.11	80.82	-24.72	3mV
867.70	54.03	43.25	2.10	45.35	60.82	-15.48	3mV
433.84	71.93	61.15	-5.31	55.84	80.82	-24.99	3mH
867.58	63.32	52.54	2.10	54.64	60.82	-6.19	3mH
433.85	64.30	53.52	-5.31	48.21	80.82	-32.62	3mH
867.70	48.32	37.54	2.10	39.64	60.82	-21.19	3mH
433.85	68.34	57.56	-5.31	52.25	80.82	-28.58	3mH
867.72	55.32	44.54	2.10	46.64	60.82	-14.19	3mH
Factor = Antenna Factor + Cable Loss - Pre Amplifier							
Av Rdg = Pk Rdg -10.785dB							

Notes:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Above 1 GHz****Operation Mode:** TX Mode / Button#1**Test Date:** August 25, 2005**Temperature:** 35°C**Humidity:** 55% RH**Tested by:** Alex Pan

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
1301	47.20	---	-10.50	36.70	54.00	-17.30	3mV
1301	---	---	---	---	---	---	3mV
1735	52.70	33.79	-8.37	25.42	60.82	-35.40	3mV
2170	52.60	43.50	-6.60	36.90	60.82	-23.92	3mV
1300	49.60	---	-10.51	39.09	54.00	-14.91	3mH
1300	---	---	---	---	---	---	3mH
1735	51.70	42.60	-8.37	34.23	60.82	-26.59	3mH
2170	51.50	42.40	-6.60	35.80	60.82	-25.02	3mH

Factor = Antenna Factor + Cable Loss - Pre Amplifier

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode (RBW=VBW=1MHz) of the emission shown in Rdg column.
4. Average detector mode (RBW=1MHz, VBW=10Hz) for restricted frequency bands.
5. Average measured mode (Pk Rdg – 9.1038dB) for not restricted frequency bands.
6. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.