

EXHIBIT - 8

TEST DATA

MEASUREMENT ITEMS	Section No.
1. DC Voltage & Current into Final Device	2.983(d)(5)
2. RF Output Power	2.985
3. Modulation Characteristics (Audio Roll-off Response)	2.987
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1. RF Output Power & DC Voltage and Current into
Final Amplifying Device

2. 983 (d) (5)

MEASURED FREQUENCY (MHz)	TX FINAL TRANSISTOR	
	CORRECTOR VOLTAGE (V)	CORRECTOR CURRENT (A)
450.05	6.8	0.18
470.05	6.8	0.22
493.95	6.7	0.27

2. CARRIER POWER

2. 985

MEASURED FREQUENCY (MHz)	OUTPUT POWER (Watts)
450.05	0.42
470.05	0.42
493.95	0.41

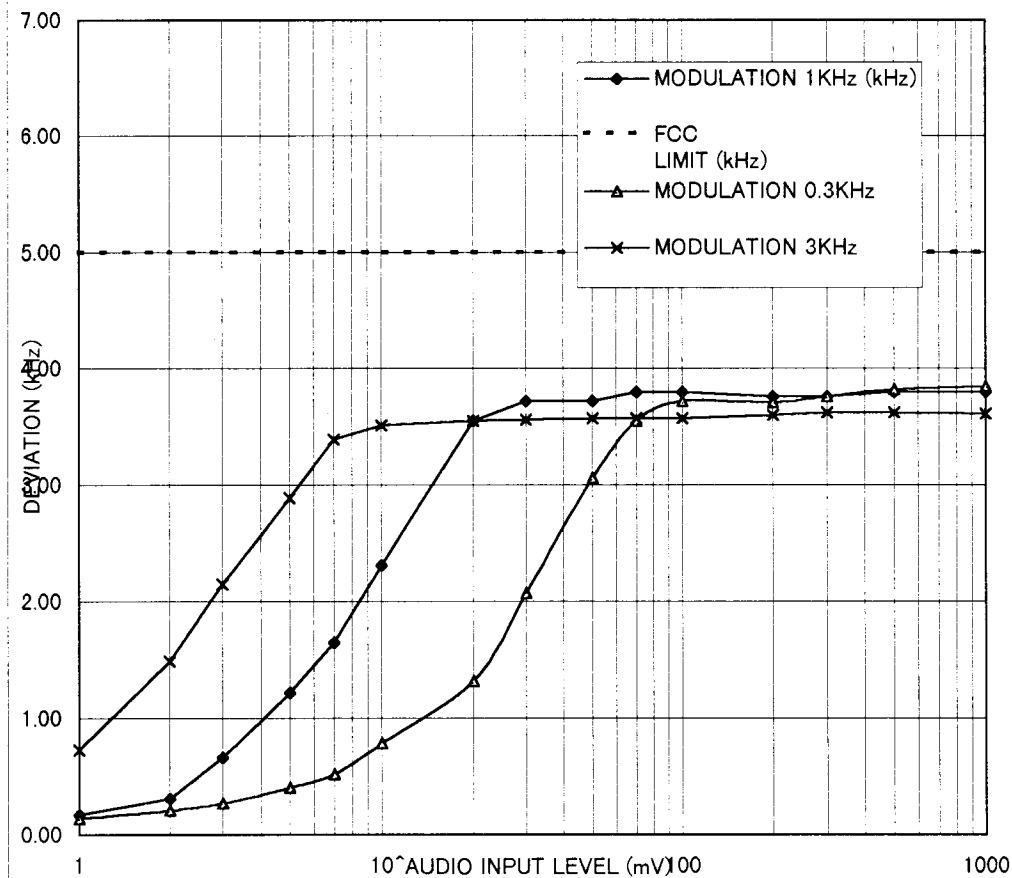
5. MODULATION CHARACTERISTICS (MODULATION LIMITING)

2.987

CARRIER FREQUENCY: 470.05 MHz

OUTPUT POWER: 0.42 WATTS

AUDIO INPUT (mV)	MODULATION 1KHz (kHz)	MODULATION 0.3KHz (kHz)	MODULATION 3KHz (kHz)	FCC LIMIT (kHz)
1	0.17	0.14	0.73	5.0
2	0.31	0.21	1.49	5.0
3	0.66	0.27	2.15	5.0
5	1.22	0.40	2.89	5.0
7	1.65	0.52	3.39	5.0
10	2.31	0.78	3.51	5.0
20	3.55	1.32	3.55	5.0
30	3.72	2.07	3.56	5.0
50	3.72	3.06	3.57	5.0
70	3.80	3.55	3.57	5.0
100	3.80	3.72	3.57	5.0
200	3.76	3.71	3.60	5.0
300	3.76	3.76	3.62	5.0
500	3.80	3.82	3.62	5.0
1000	3.80	3.85	3.61	5.0



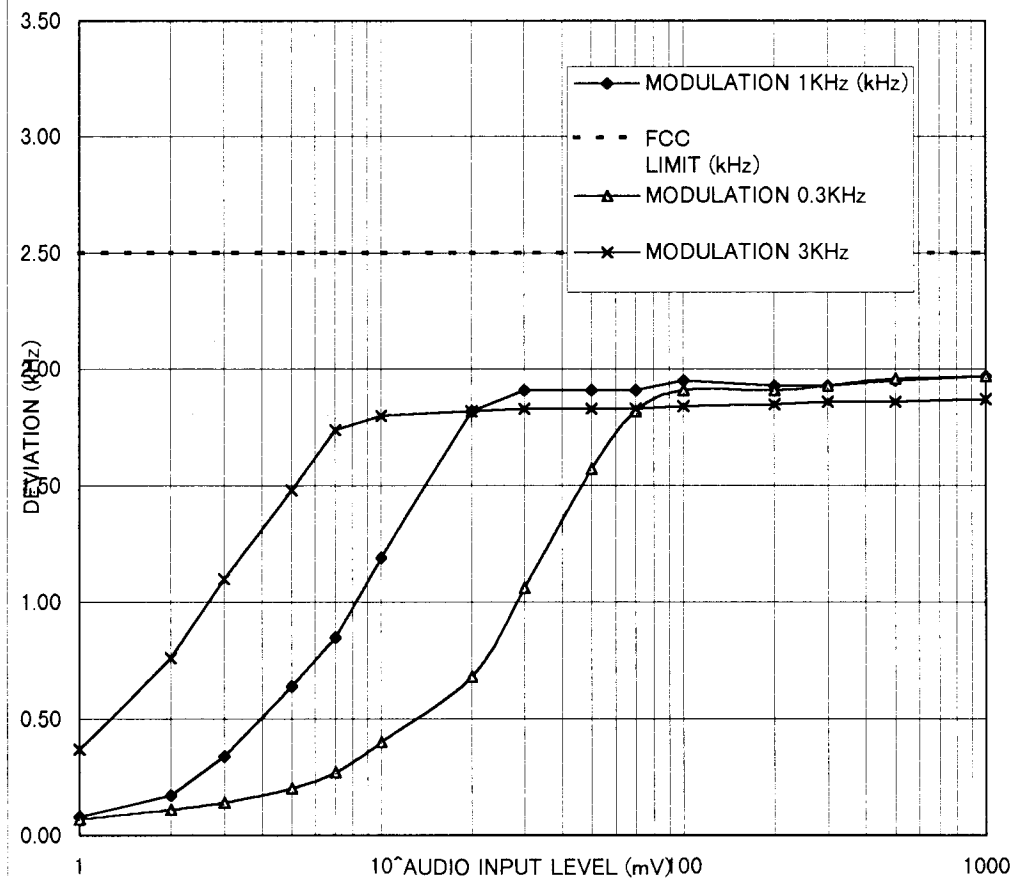
5. MODULATION CHARACTERISTICS (MODULATION LIMITING)

2.987

CARRIER FREQUENCY: 470.05 MHz

OUTPUT POWER: 0.42 WATTS

AUDIO INPUT (mV)	MODULATION 1KHz (kHz)	MODULATION 0.3KHz (kHz)	MODULATION 3KHz (kHz)	FCC LIMIT (kHz)
1	0.08	0.07	0.37	2.5
2	0.17	0.11	0.76	2.5
3	0.34	0.14	1.10	2.5
5	0.64	0.20	1.48	2.5
7	0.85	0.27	1.74	2.5
10	1.19	0.40	1.80	2.5
20	1.82	0.68	1.82	2.5
30	1.91	1.06	1.83	2.5
50	1.91	1.57	1.83	2.5
70	1.91	1.82	1.83	2.5
100	1.95	1.91	1.84	2.5
200	1.93	1.91	1.85	2.5
300	1.93	1.93	1.86	2.5
500	1.95	1.96	1.86	2.5
1000	1.97	1.97	1.87	2.5

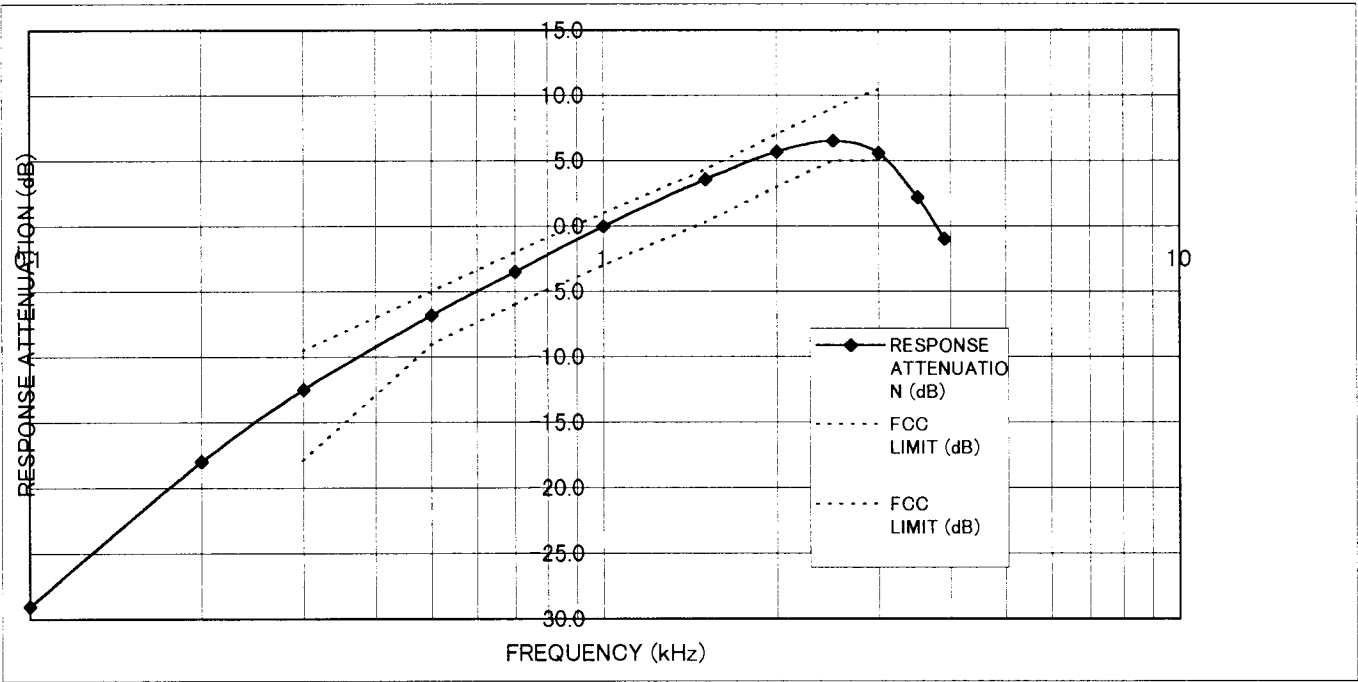


4. MODULATION CHARACTERISTICS (AUDIO FREQUENCY RESPONSE)

2. 987

CARRIER FREQUENCY: 156.80 MHz
OUTPUT POWER: 24.1 WATTS

AUDIO FREQUENCY	RESPONSE ATTENUATION	FCC LIMIT	
(kHz)	(dB)	(dB)	
0.1	-29.0		
0.2	-18.0		
0.3	-12.5	-9.5	-18
0.5	-6.8	-5.0	-9
0.7	-3.5	-2.0	-6
1	0.0	1.0	-3
1.5	3.6	4.3	0.3
2	5.7	7.0	3
2.5	6.5	9.0	5
3	5.6	10.5	5
3.5	2.2		
3.9	-1.0		

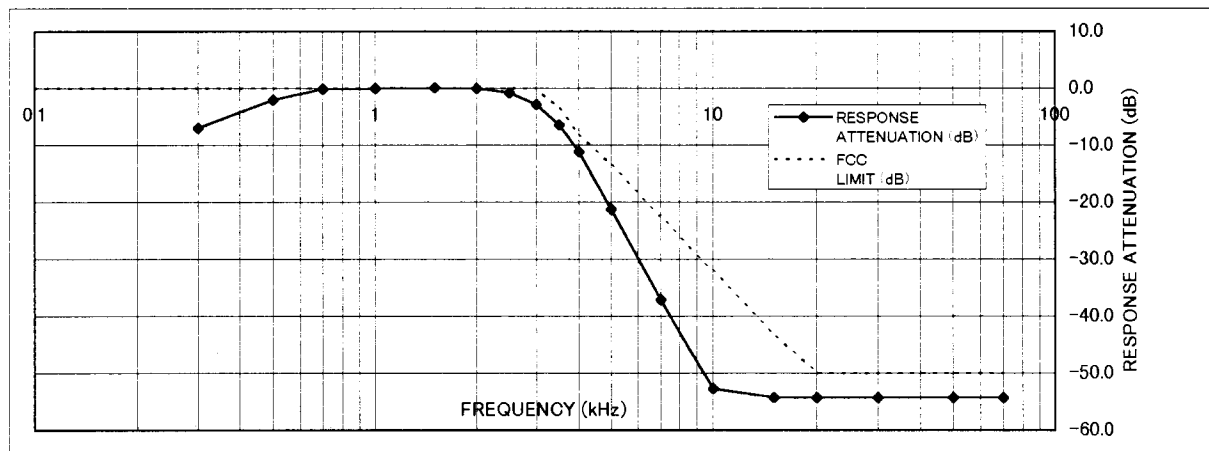


3. MODULATION CHARACTERISTICS (AUDIO ROLL-OFF RESPONSE)

2.987 & 80.213

CARRIER FREQUENCY: 156.80 MHz
OUTPUT POWER: 24.1WATTS

AUDIO FREQUENCY (kHz)	RESPONSE ATTENUATION (dB)	FCC LIMIT (dB)
0.1		--
0.2		--
0.3	-7.0	--
0.5	-2.0	--
0.7	-0.1	--
1	0.0	--
1.5	0.1	--
2	0.0	--
2.5	-0.81	--
3	-2.76	0.00
3.5	-6.46	-3.50
4	-11.15	-8.00
5	-21.20	-13.50
7	-37.10	-22.50
10	-52.65	-32.00
15	-54.30	-43.00
20	-54.30	-50.00
30	-54.30	-50.00
50	-54.30	-50.00
70	-54.30	-50.00



7. SPURIOUS & HARMONICS EMISSION AT ANTENNA TERMINAL

2.991

Harmonics of Carrier	450.05MHz [dBc]	470.05MHz [dBc]	493.95MHz [dBc]	FCC LIMIT
1	-	-	-	-40
2	<-75	<-75	-70.0	-40
3	-74.0	<-75	<-75	-40
4	<-75	<-75	-69.0	-40
5	<-75	-72.0	<-75	-40
6	-74.5	<-75	<-75	-40

8. FIELD STRENGTH OF SPURIOUS & HARMONICS RADIATION

2. 933

TX: 450.05 MHz

EMISSIONS (MHz)	EUT, PLACED V/H	ANT, POLARITY V/H	ATTENUATION (dB)	FCC LIMIT (dB)	MARGIN (dB)
RF POWER: 0.4 WATTS					
900.100	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
1350.150	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
1800.200	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
2250.250	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
2700.300	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
3150.350	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
3600.400	H	V	<-66	-46	>20
	H	H	<-66	-46	>20

Note: All spurious emissions not reported were attenuated
by at least 20 dB below the FCC limit.

8. FIELD STRENGTH OF SPURIOUS & HARMONICS RADIATION

2. 933

TX: 470.05 MHz

EMISSIONS (MHz)	EUT, PLACED V/H	ANT, POLARITY V/H	ATTENUATION (dB)	FCC LIMIT (dB)	MARGIN (dB)
RF POWER: 0.4 WATTS					
940.100	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
1410.150	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
1880.200	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
2350.250	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
2820.300	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
3290.350	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
3760.400	H	V	<-66	-46	>20
	H	H	<-66	-46	>20

Note: All spurious emissions not reported were attenuated
by at least 20 dB below the FCC limit.

8. FIELD STRENGTH OF SPURIOUS & HARMONICS RADIATION

2. 933

TX: 493.95 MHz

EMISSIONS (MHz)	EUT, PLACED V/H	ANT, POLARITY V/H	ATTENUATION (dB)	FCC LIMIT (dB)	MARGIN (dB)
RF POWER: 0.4 WATTS					
987.900	H	V	-65.1	-46	19.1
	H	H	-64.2	-46	18.2
1481.850	H	V	-64.2	-46	18.2
	H	H	<-66	-46	>20
1975.800	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
2469.750	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
2963.700	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
3457.650	H	V	<-66	-46	>20
	H	H	<-66	-46	>20
3951.600	H	V	<-66	-46	>20
	H	H	<-66	-46	>20

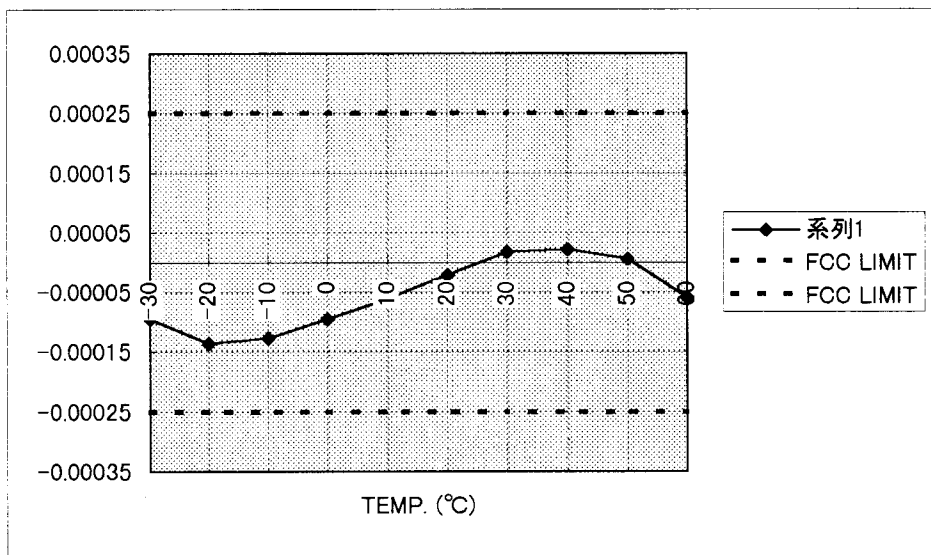
All spurious emissions note reported were attenuated
by at least 20 dB below the FCC limit.

Note:

9. FREQUENCY STABILITY (TEMPERATURE RANGE)

2.995

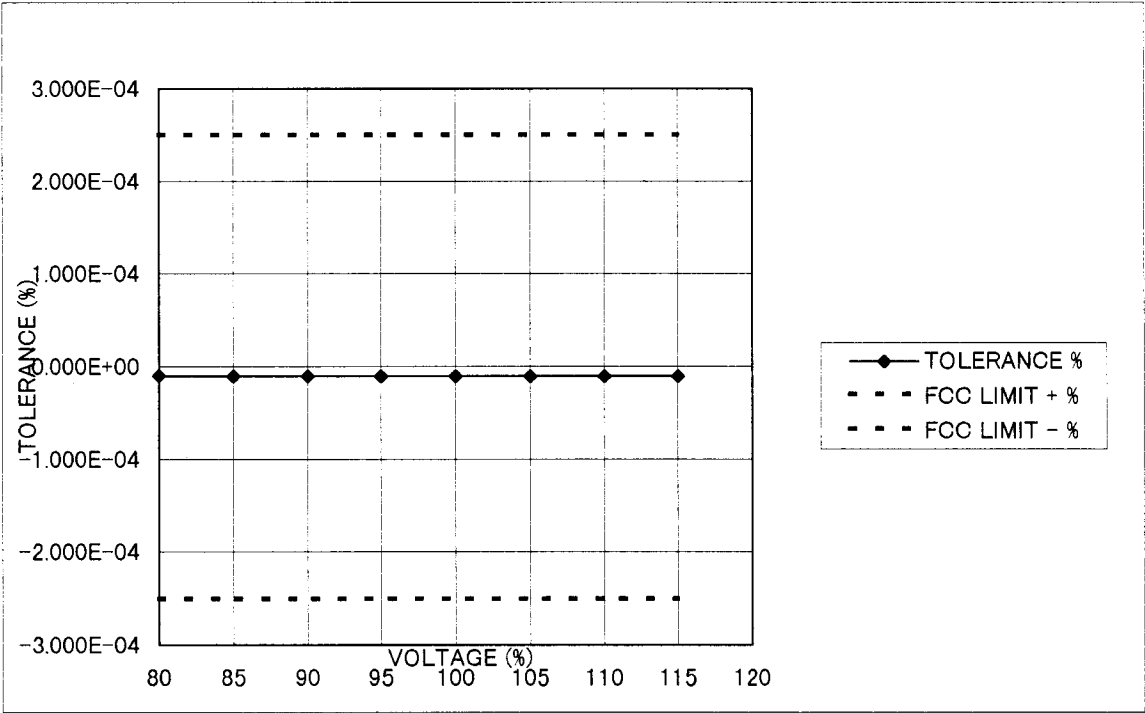
TEMPERATURE	FREQ.	TOLERANCE		FCC LIMIT	
°C	MHz	Hz	%	+	-
-30	470.049555	-445	-9.4671E-05	0.00025	-0.00025
-20	470.049365	-635	-0.00013509	0.00025	-0.00025
-10	470.049402	-598	-0.00012722	0.00025	-0.00025
0	470.049553	-447	-9.5096E-05	0.00025	-0.00025
10	470.049714	-286	-6.0845E-05	0.00025	-0.00025
20	470.049904	-96	-2.0423E-05	0.00025	-0.00025
30	470.050084	84	1.78704E-05	0.00025	-0.00025
40	470.050105	105	2.2338E-05	0.00025	-0.00025
50	470.050028	28	5.95681E-06	0.00025	-0.00025
60	470.049726	-274	-5.8292E-05	0.00025	-0.00025



10. FREQUENCY STABILITY (VOLTAGE RANGE)

2. 995

VOLTAGE		FREQ.		TOLERANCE		FCC LIMIT	
(V)	(%)	MHz	Hz	%	+ %	- %	
10. 88	80	470. 049955	45	-9. 573E-06	0. 00025	-0. 00025	
11. 56	85	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	
12. 24	90	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	
12. 92	95	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	
13. 60	100	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	
14. 28	105	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	
14. 96	110	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	
15. 64	115	470. 049952	48	-1. 021E-05	0. 00025	-0. 00025	



graphs

Occupied Bandwidth

ob12470.jpg :12.5kHz Spacing 470.05MHz
ob12470d.jpg :12.5kHz Spacing 470.05MHz with Rate Data Modulation
ob25470.jpg :25kHz Spacing 470.05MHz
ob25470d.jpg :25kHz Spacing 470.05MHz with Rate Data Modulation

Transient Frequency Behavior

t12450_f.jpg :12.5kHz Spacing 450.05MHz PTT OFF
t12450_o.jpg :12.5kHz Spacing 450.05MHz PTT ON
t12470_f.jpg :12.5kHz Spacing 470.05MHz PTT OFF
t12470_o.jpg :12.5kHz Spacing 470.05MHz PTT ON
t12493_f.jpg :12.5kHz Spacing 493.95MHz PTT OFF
t12493_o.jpg :12.5kHz Spacing 493.95MHz PTT ON
t25450_f.jpg :25kHz Spacing 450.05MHz PTT OFF
t25450_o.jpg :25kHz Spacing 450.05MHz PTT ON
t25470_f.jpg :25kHz Spacing 470.05MHz PTT OFF
t25470_o.jpg :25kHz Spacing 470.05MHz PTT ON
t25493_f.jpg :25kHz Spacing 493.95MHz PTT OFF
t25493_o.jpg :25kHz Spacing 493.95MHz PTT ON

REF 10.0 dBm ATT 10 dB

10 dB/
CAL.OFF

VBW
300 HZ

RBW
300 HZ

VBW
300 HZ

CENTER 470.050 MHz

SPAN 100 KHZ

SWP 5 S

12.5KHz SPACING 470.05MHz

0612470.jpg

REF 10.0 dBm ATT 10 dB

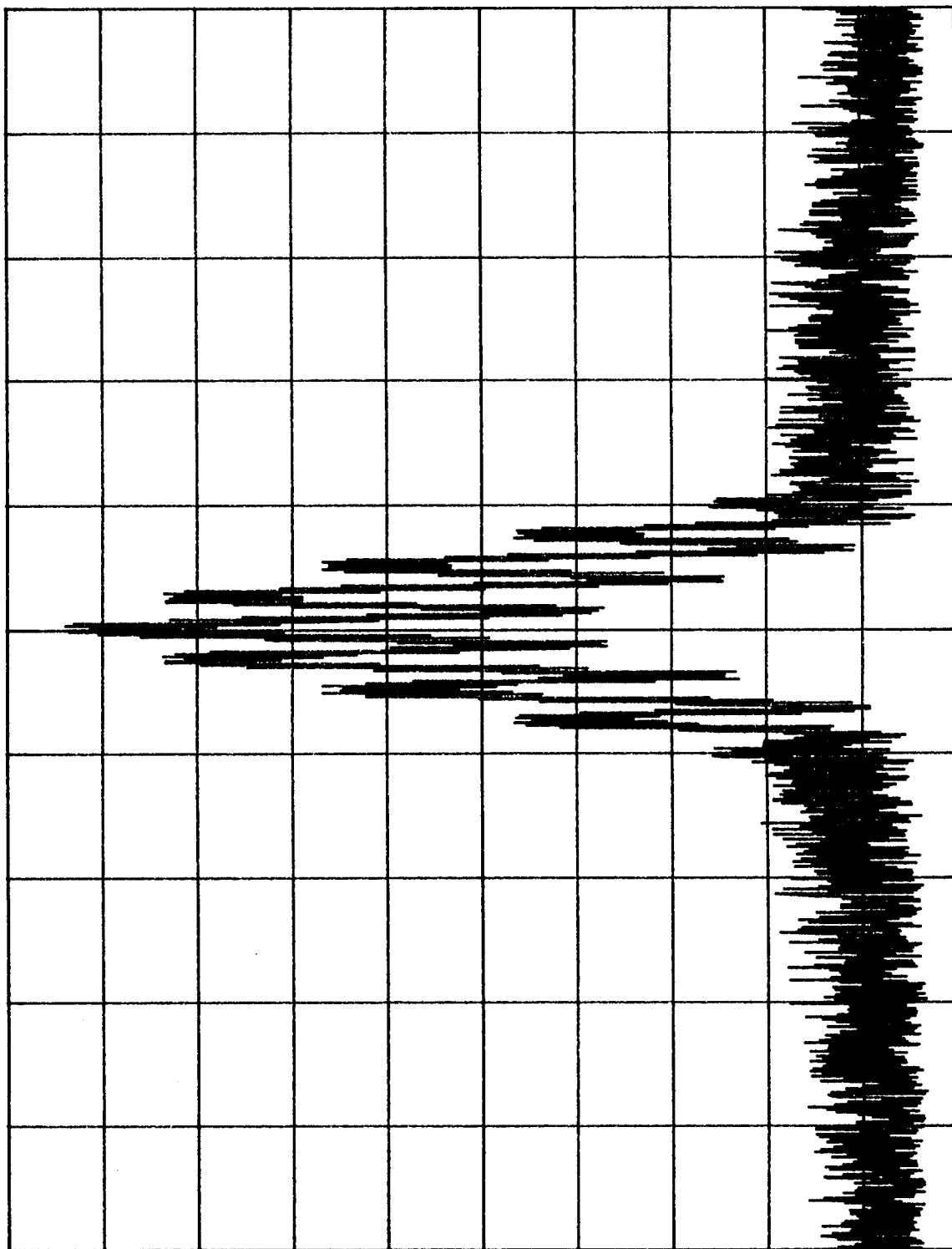
10 dB/
CAL. OFF

VBW
300 HZ

RBW
300 HZ

VBW
300 HZ

SWP 5 s SPAN 100 KHZ CENTER 470.050 MHZ

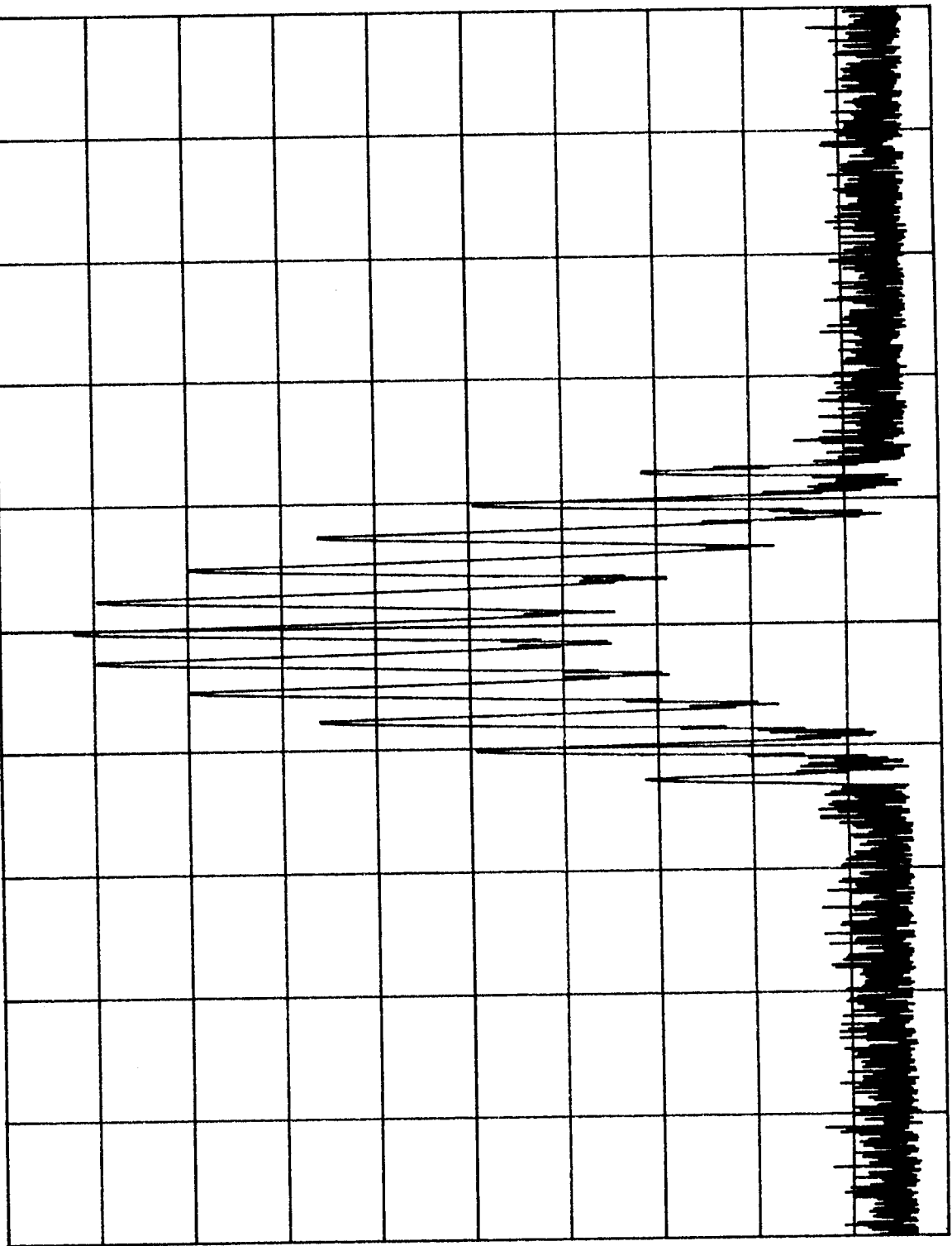


12.5KHz SPACING 470.05MHz
WITH RATE DATA MODULATION

0612470d.jpg

ATT 10 dB

REF 10.0 dBm



CENTER 470.050 MHz

SPAN 100 KHZ

SWP 5 S

10 dB/

CAL.OFF

VBW

300 HZ

RBW

300 HZ

VBW

300 HZ

25KHz SPACING 470.05MHz

0625470.jpg

REF 10.0 dBm ATT 10 dB

10 dB/

CAL.OFF

VBW

300 HZ

RBW

300 HZ

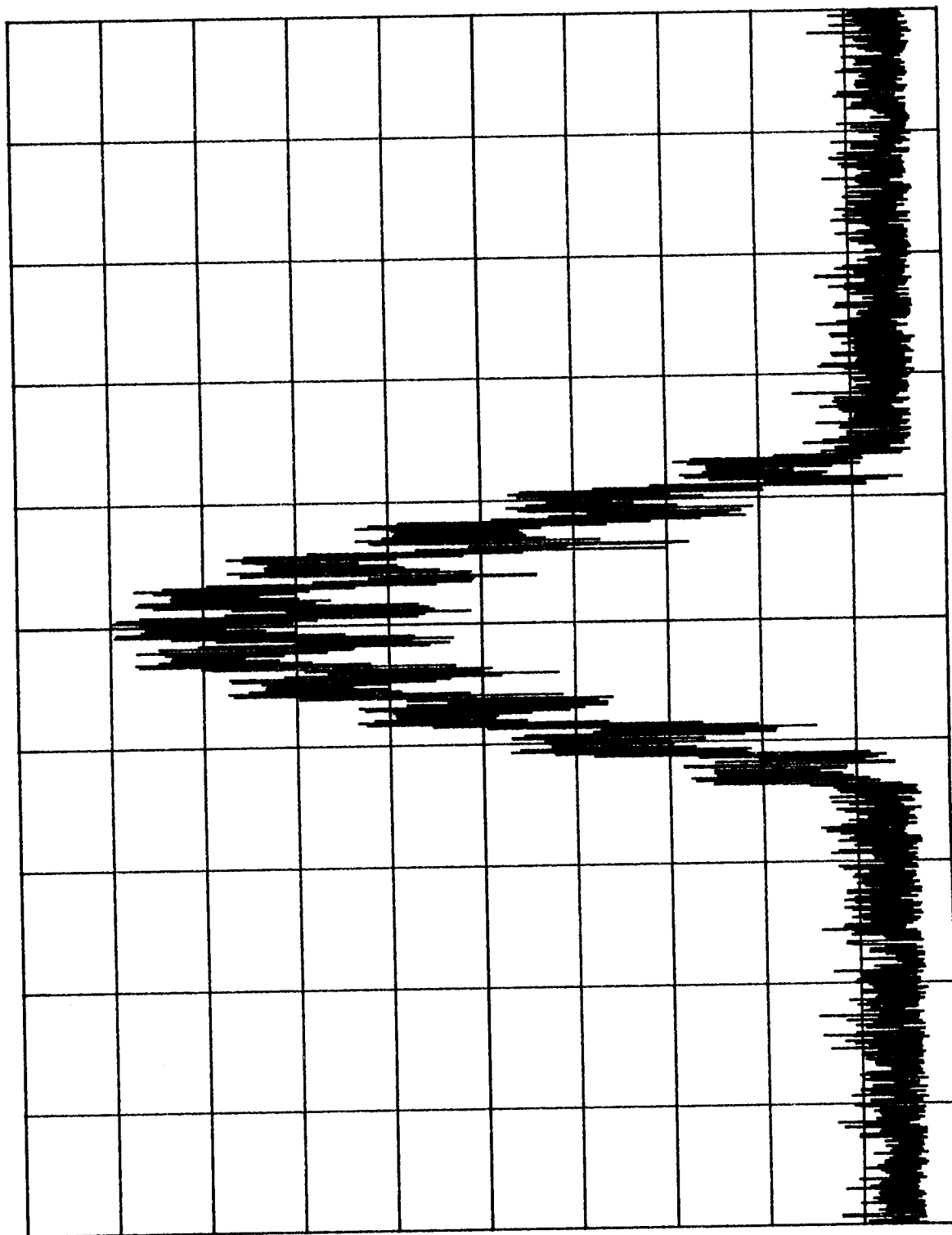
VBW

300 HZ

SWP 5 s

SPAN 100 KHZ

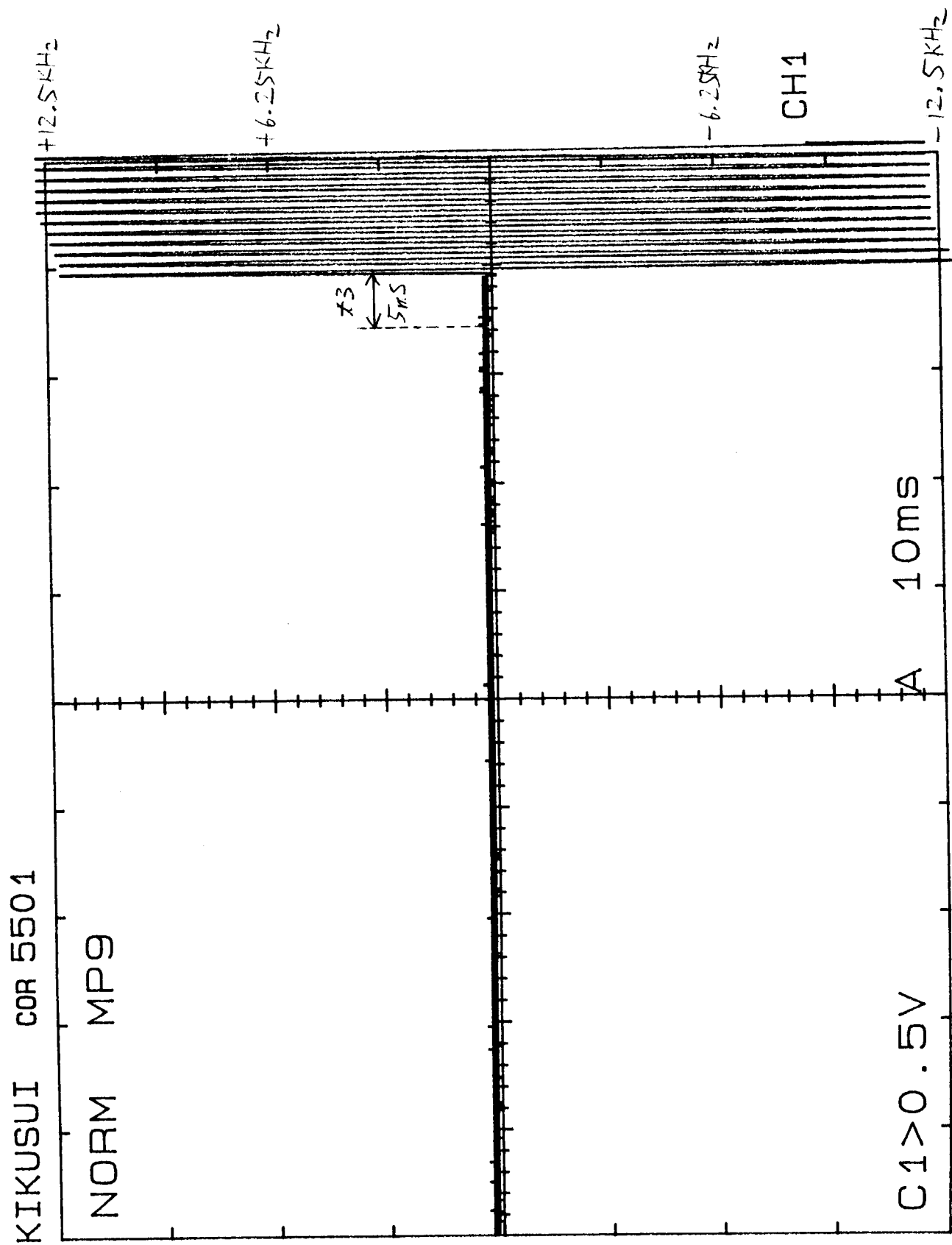
CENTER 470.050 MHz



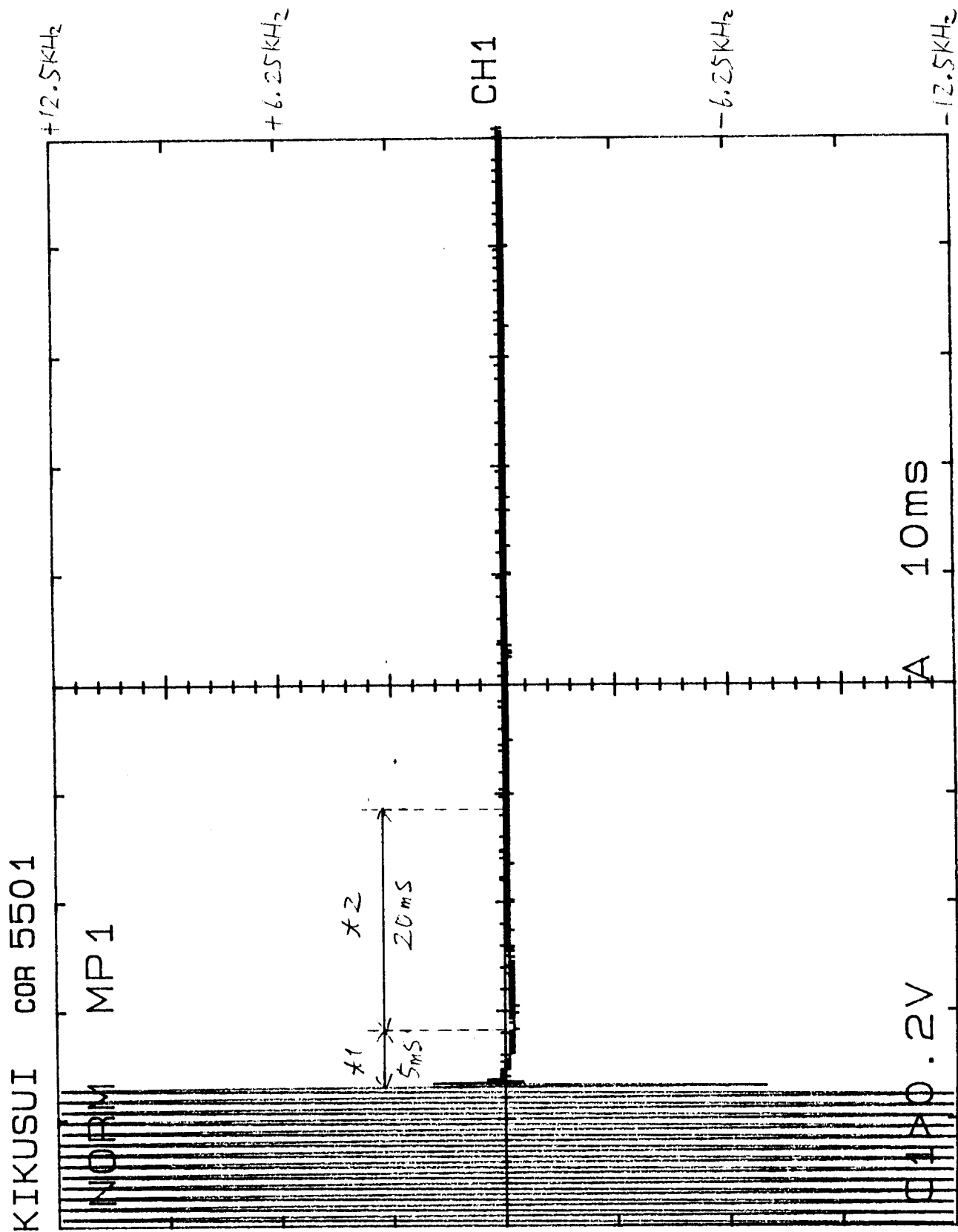
25KHz SPACING 470.050MHz
WITH RATE DATA MODULATION

0625470d.jpg

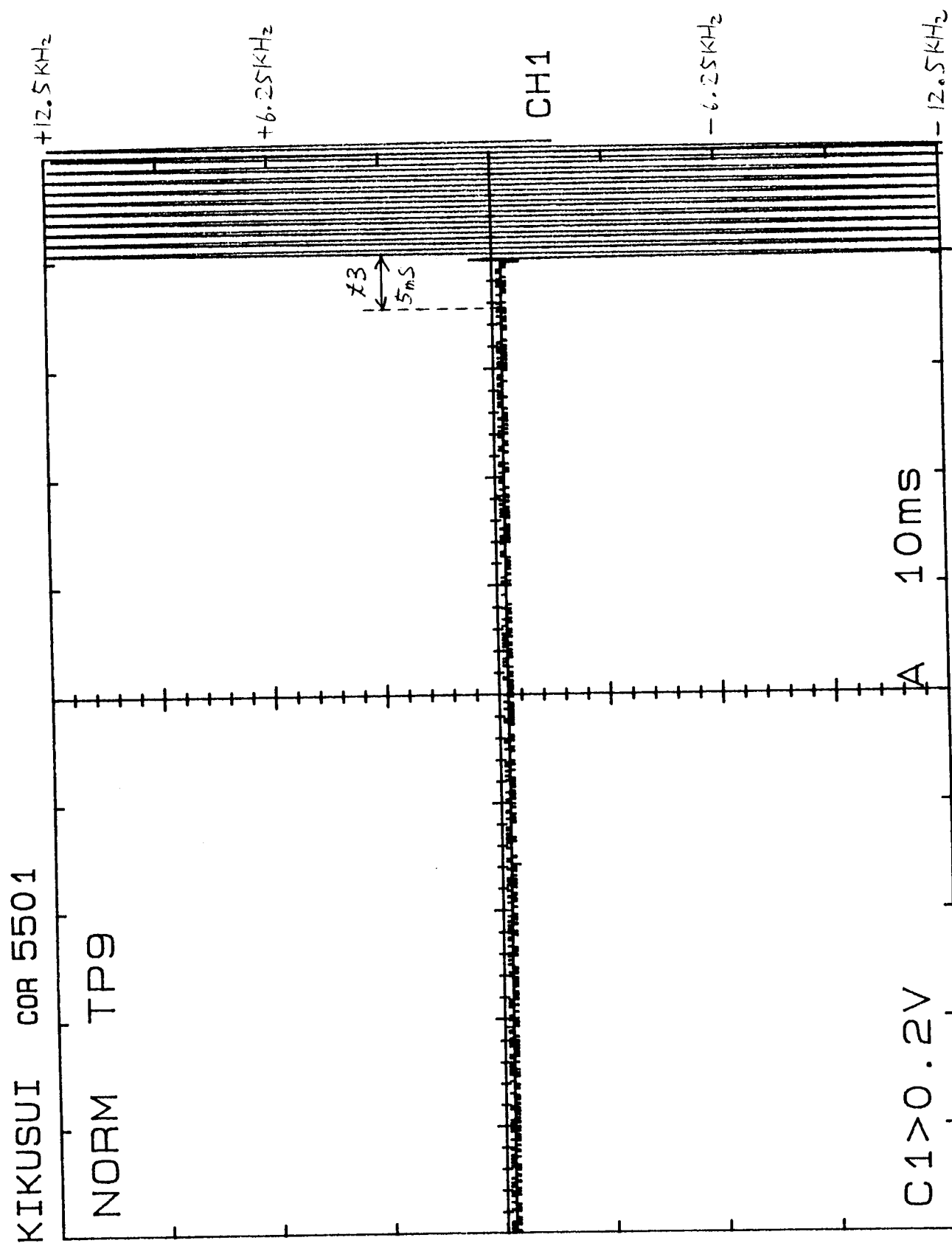
Carrier Frequency : 450.05 MHz
Channel Spacing : 12.5 kHz



Channel Spacing : 12.5 kHz

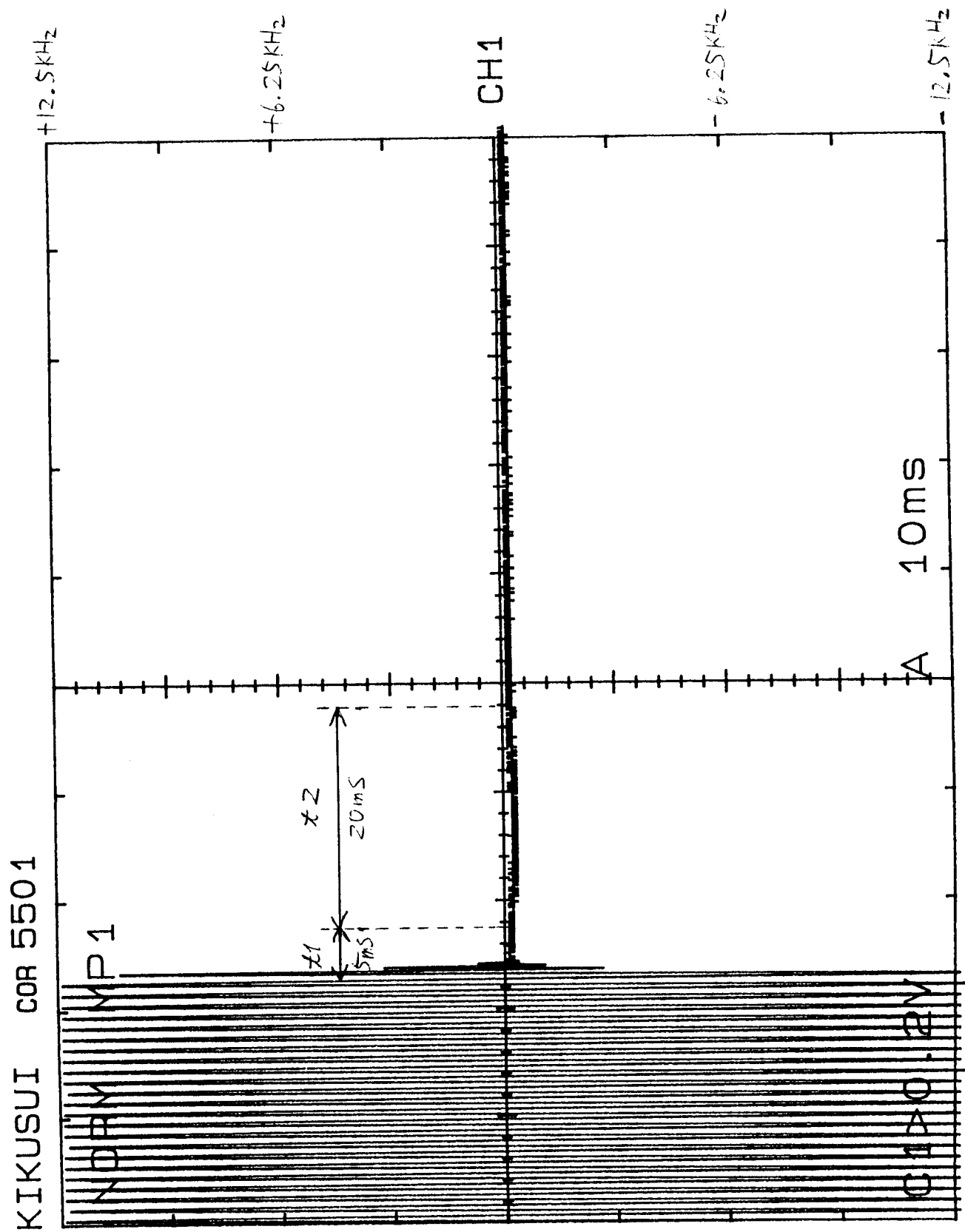


Channel Spacing : 12.5 kHz



t 12470-f.jpg

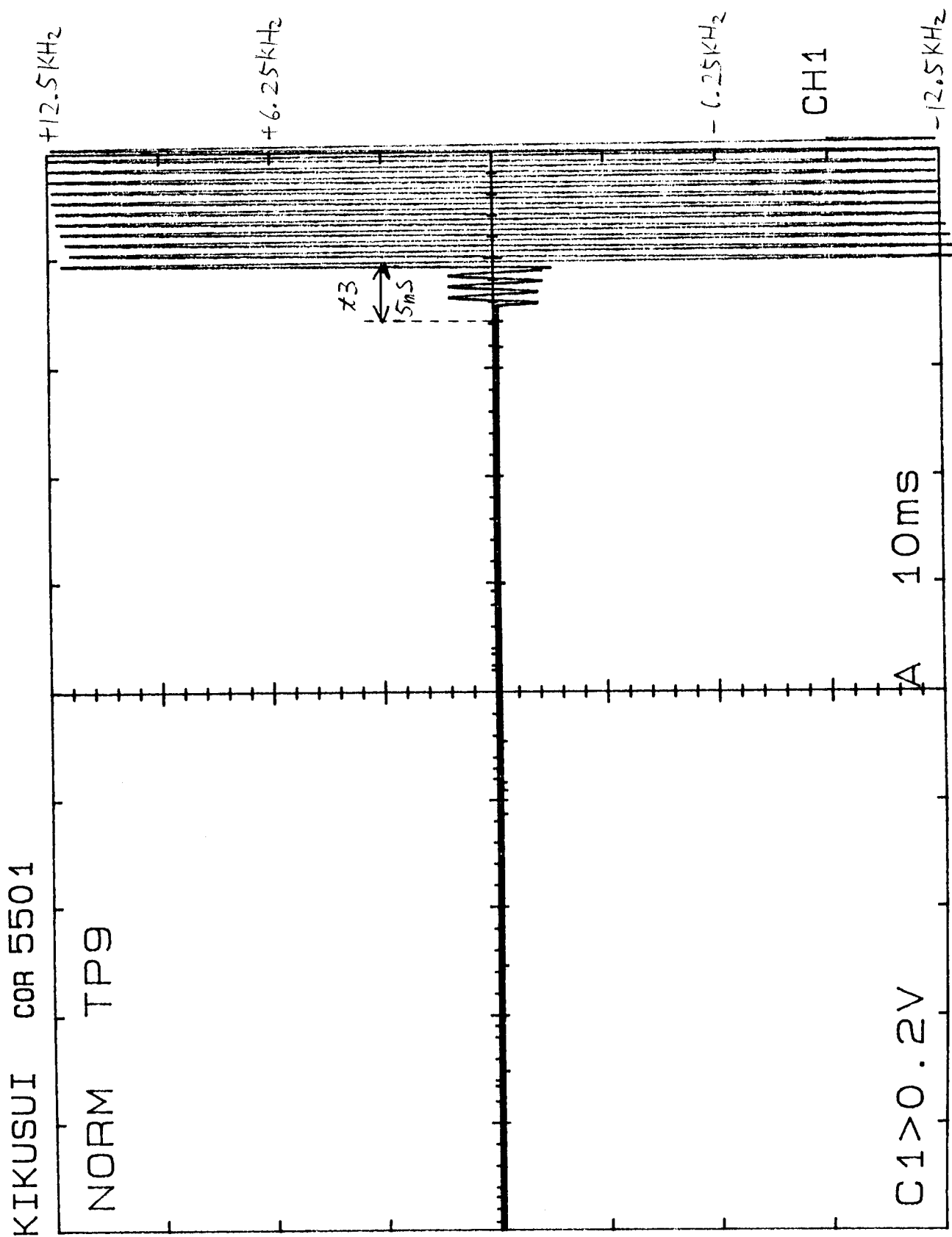
Channel Spacing : 12.5 kHz



t12470-0-jp8

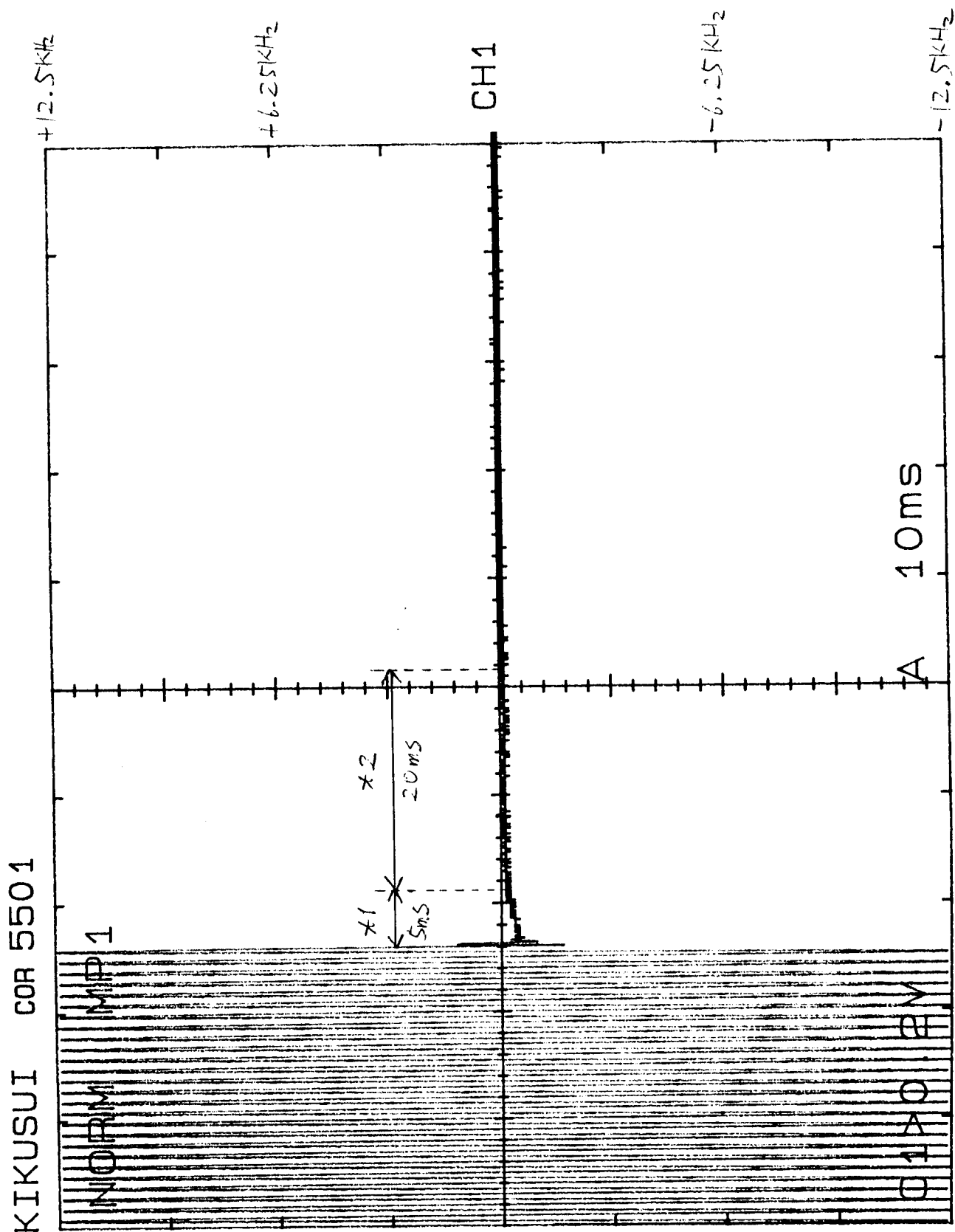
Carrier Frequency : 493.95 MHz

Channel Spacing : 12.5 kHz



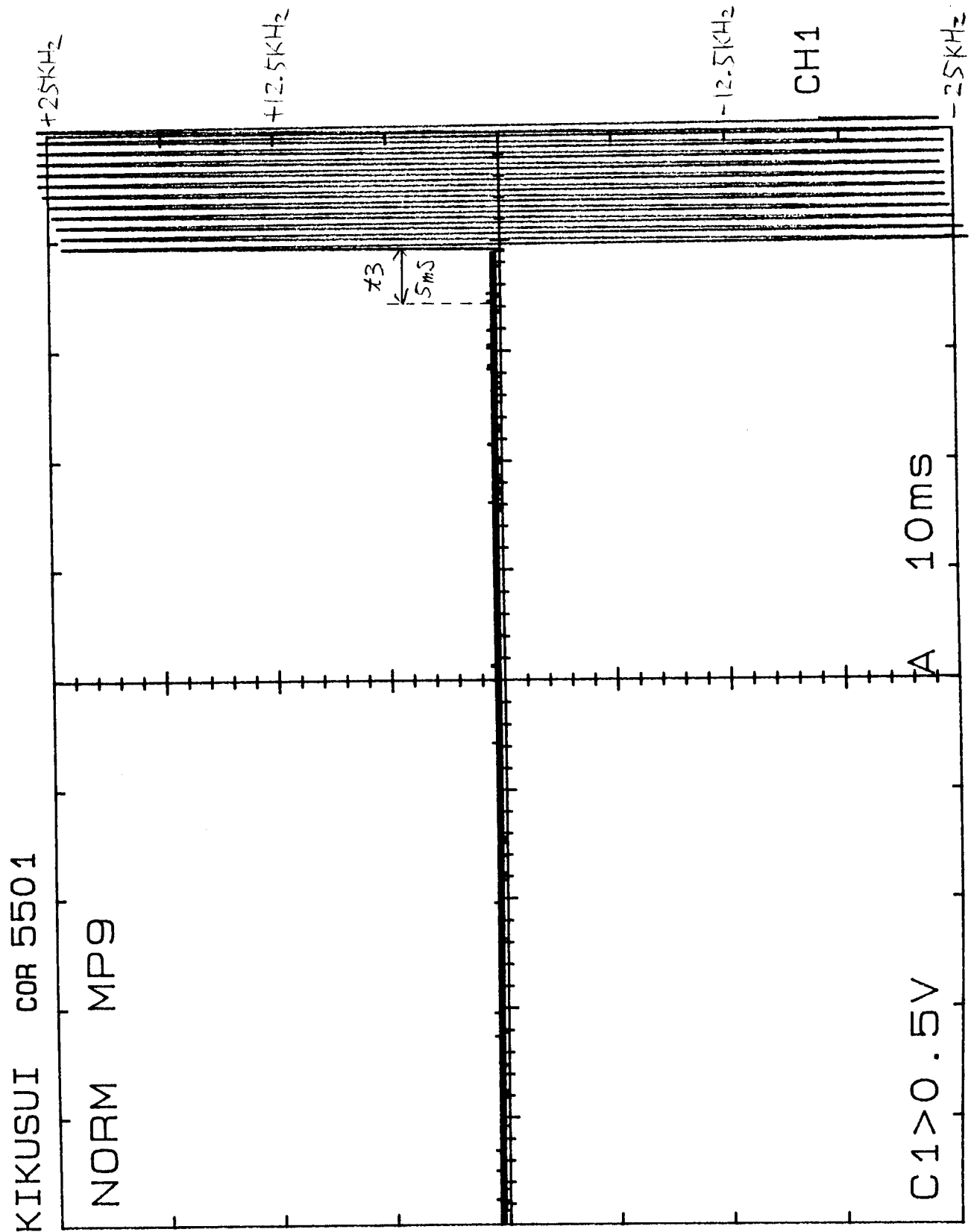
Carrier Frequency : 493.95 MHz

Channel Spacing : 12.5 kHz

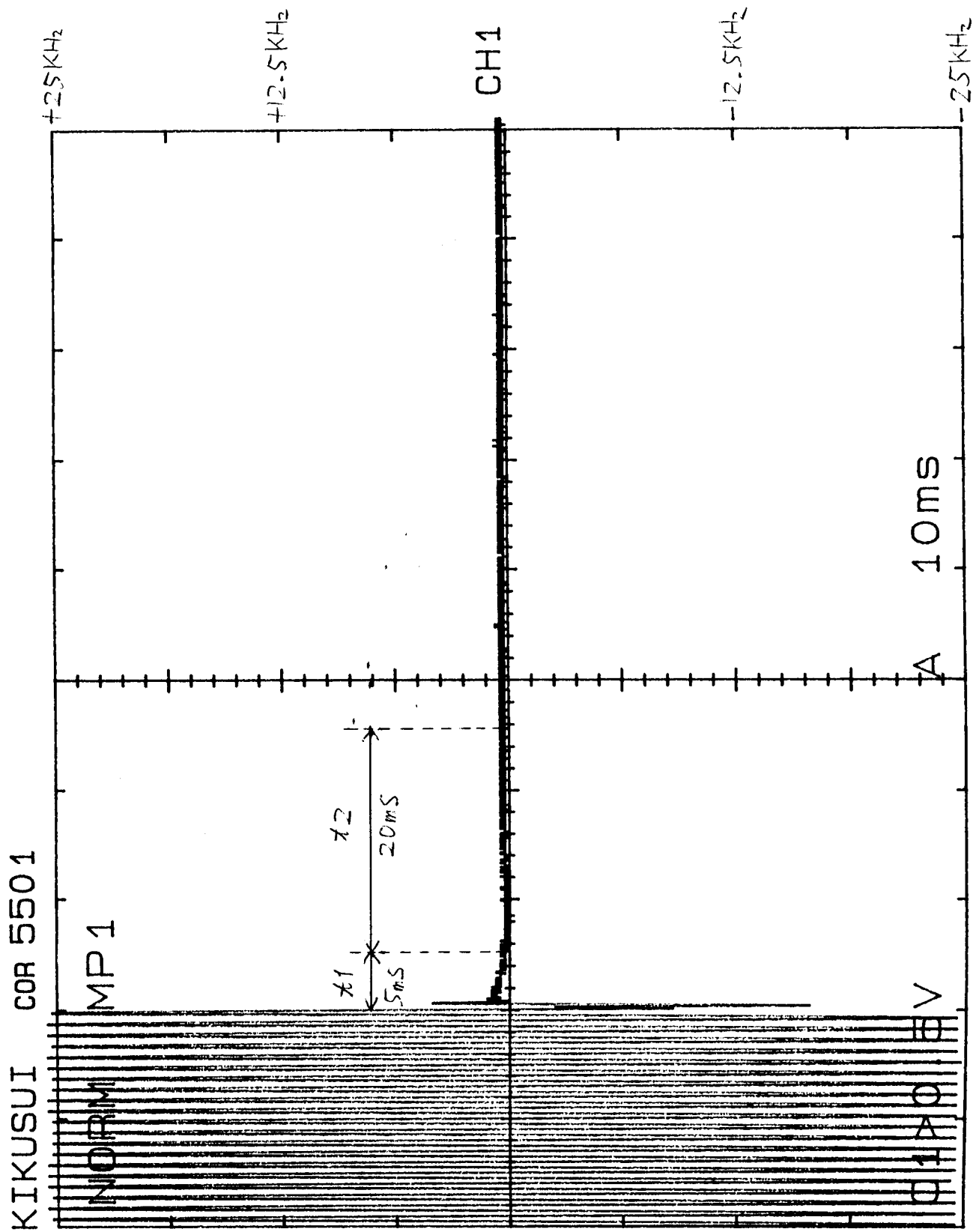


Carrier Frequency : 450.05 MHz

Channel Spacing : 25.0 kHz

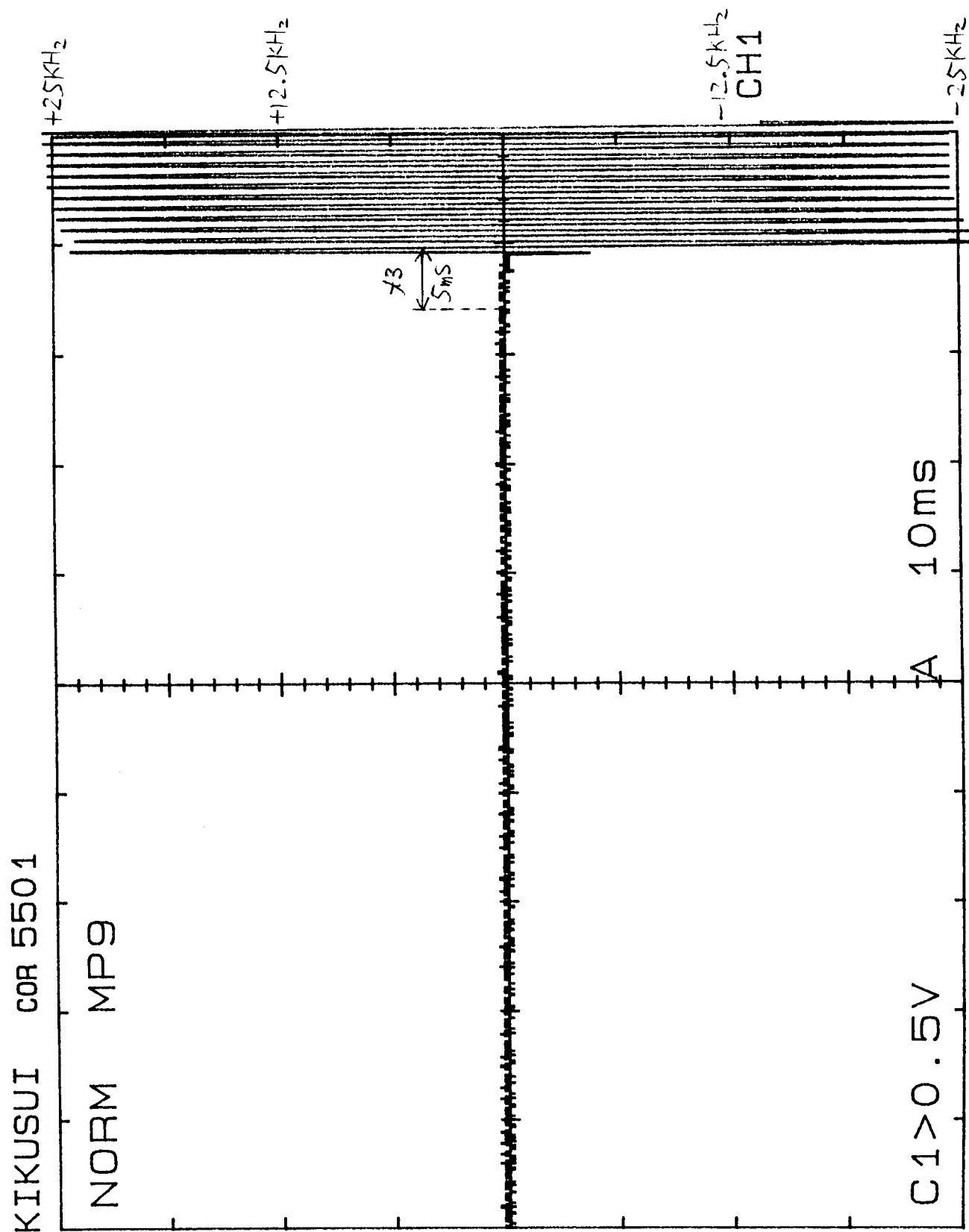


Carrier Frequency : 450.05 MHz
Channel Spacing : 25.0 kHz

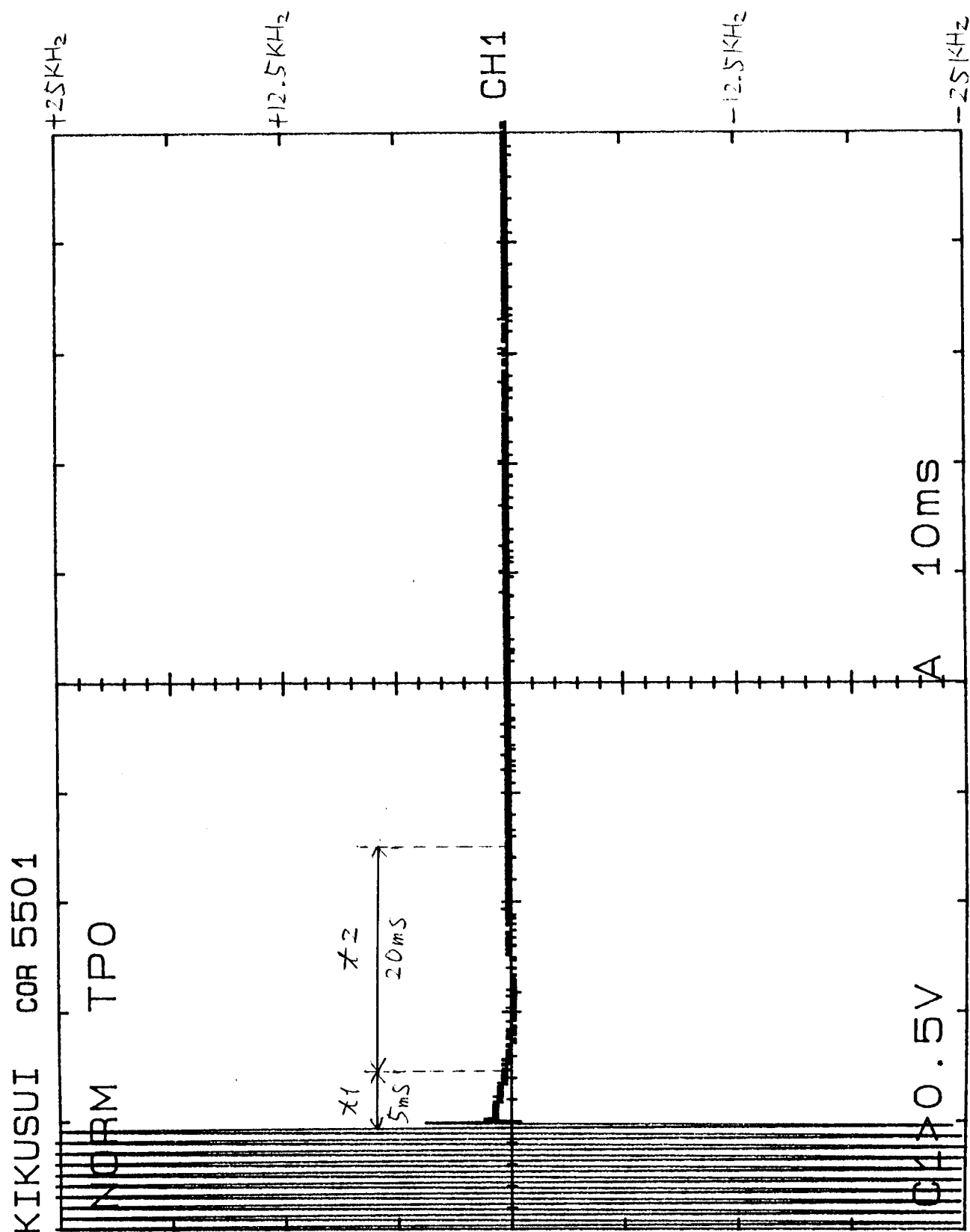


Carrier Frequency : 470.05 MHz

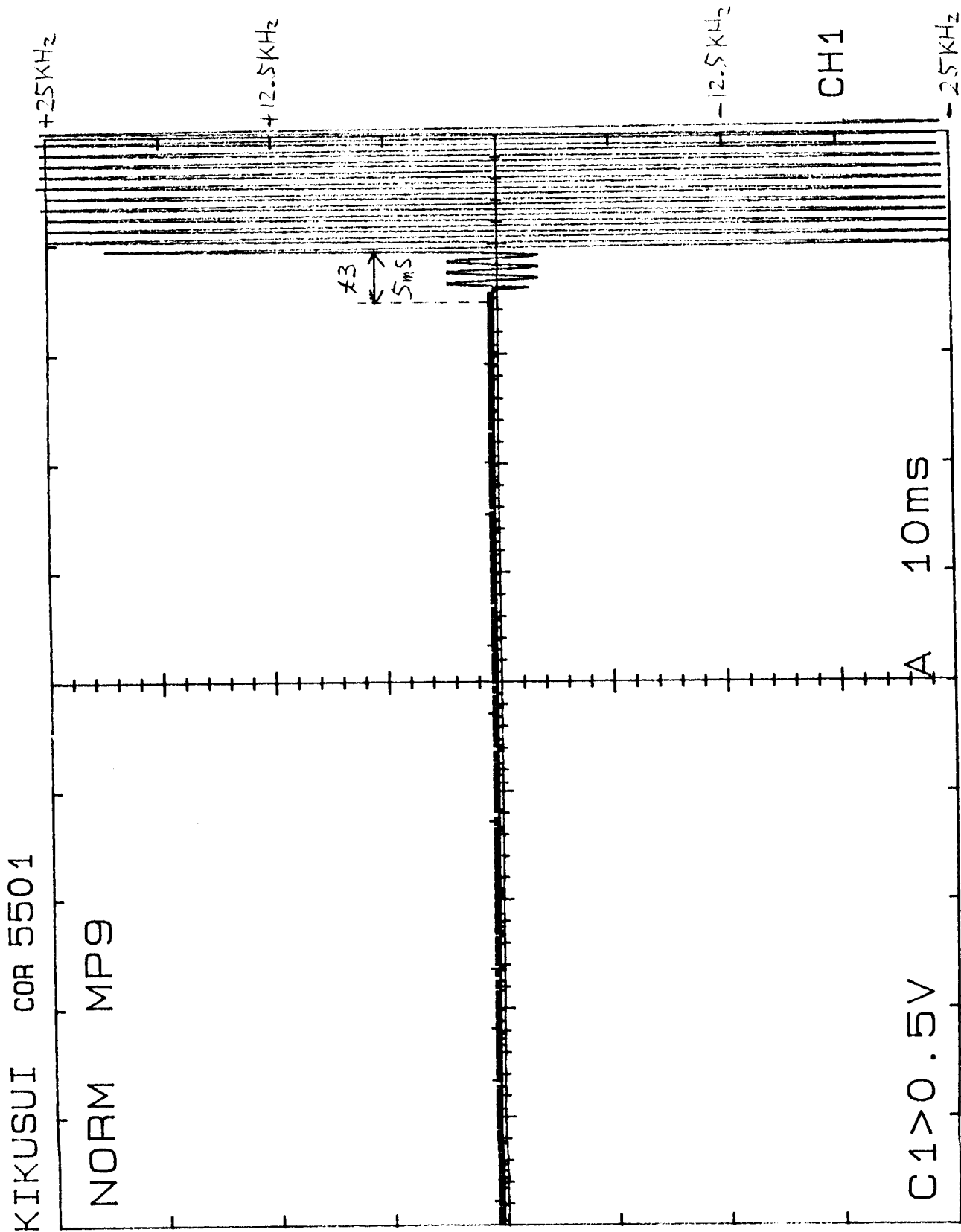
Channel Spacing : 25.0 kHz



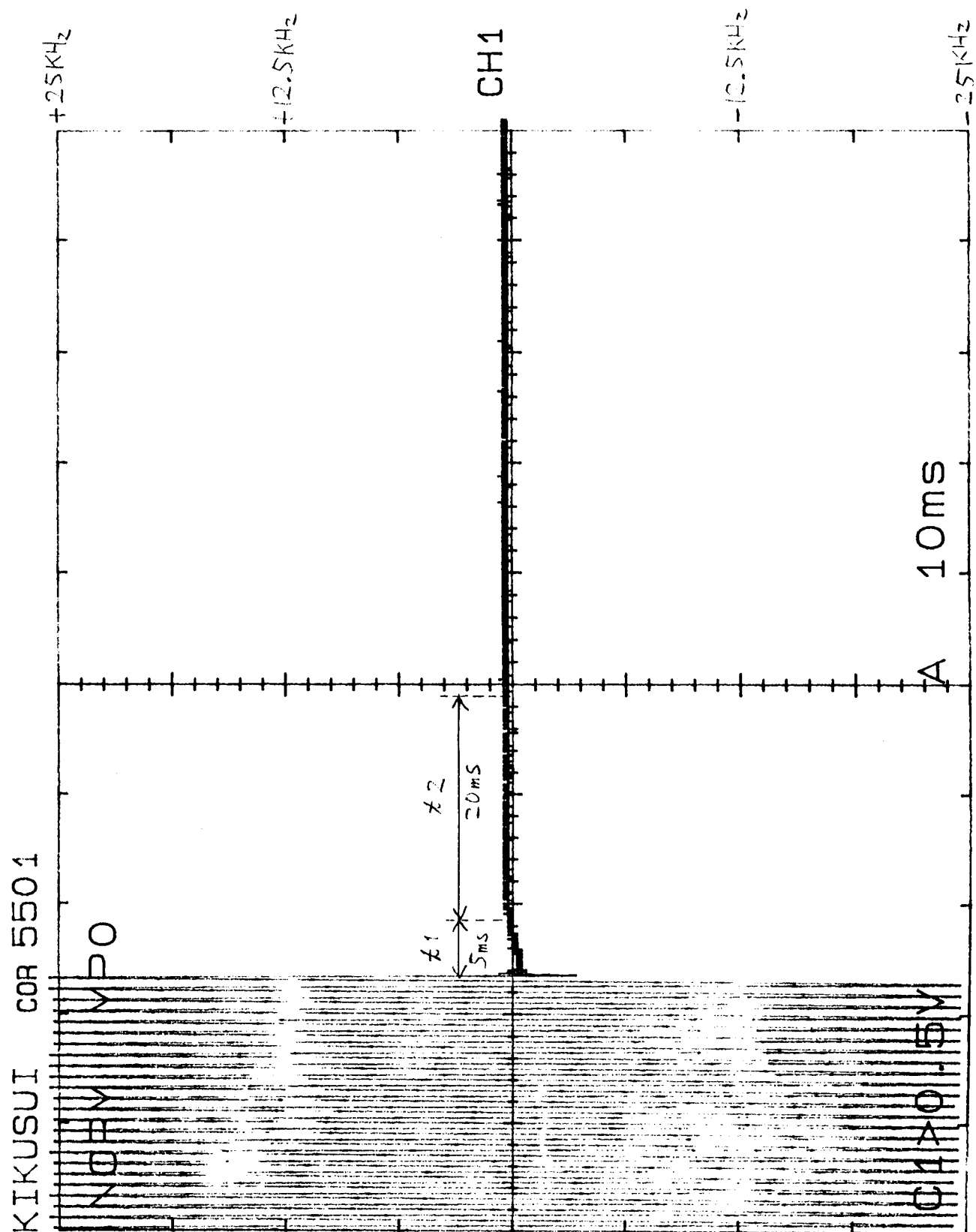
Channel Spacing : 25.0 kHz



Carrier Frequency : 493.95 MHz
Channel Spacing : 25.0 kHz



Channel Spacing : 25.0 kHz



t25493_0.jpg