Figure 1: Demodulated linearity waveform 17 MHz channel spacing +/- 4 MHz FM deviation
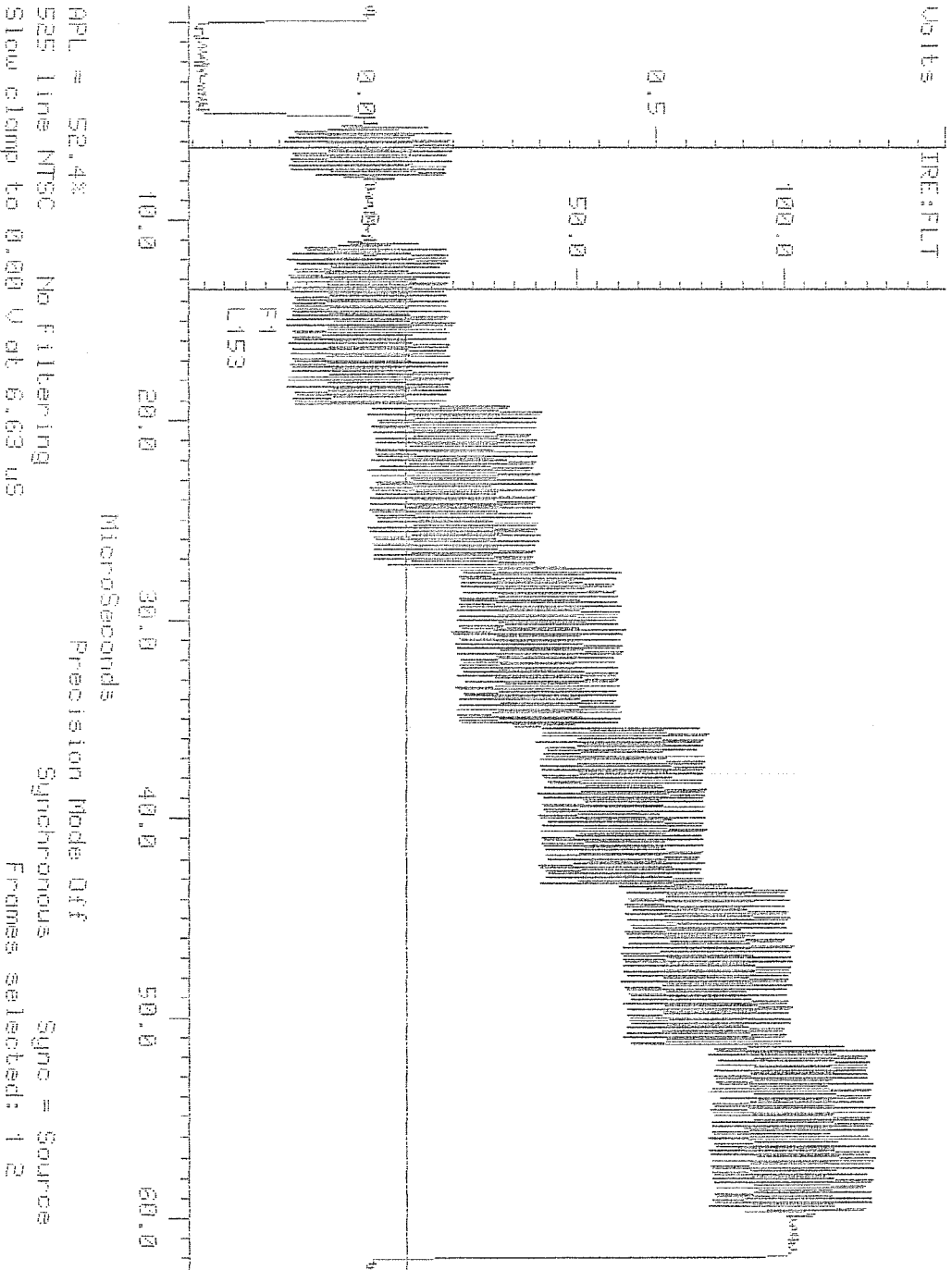
Figure 2: Differential Gain 17 MHz channel spacing +/- 4 MHz FM deviation
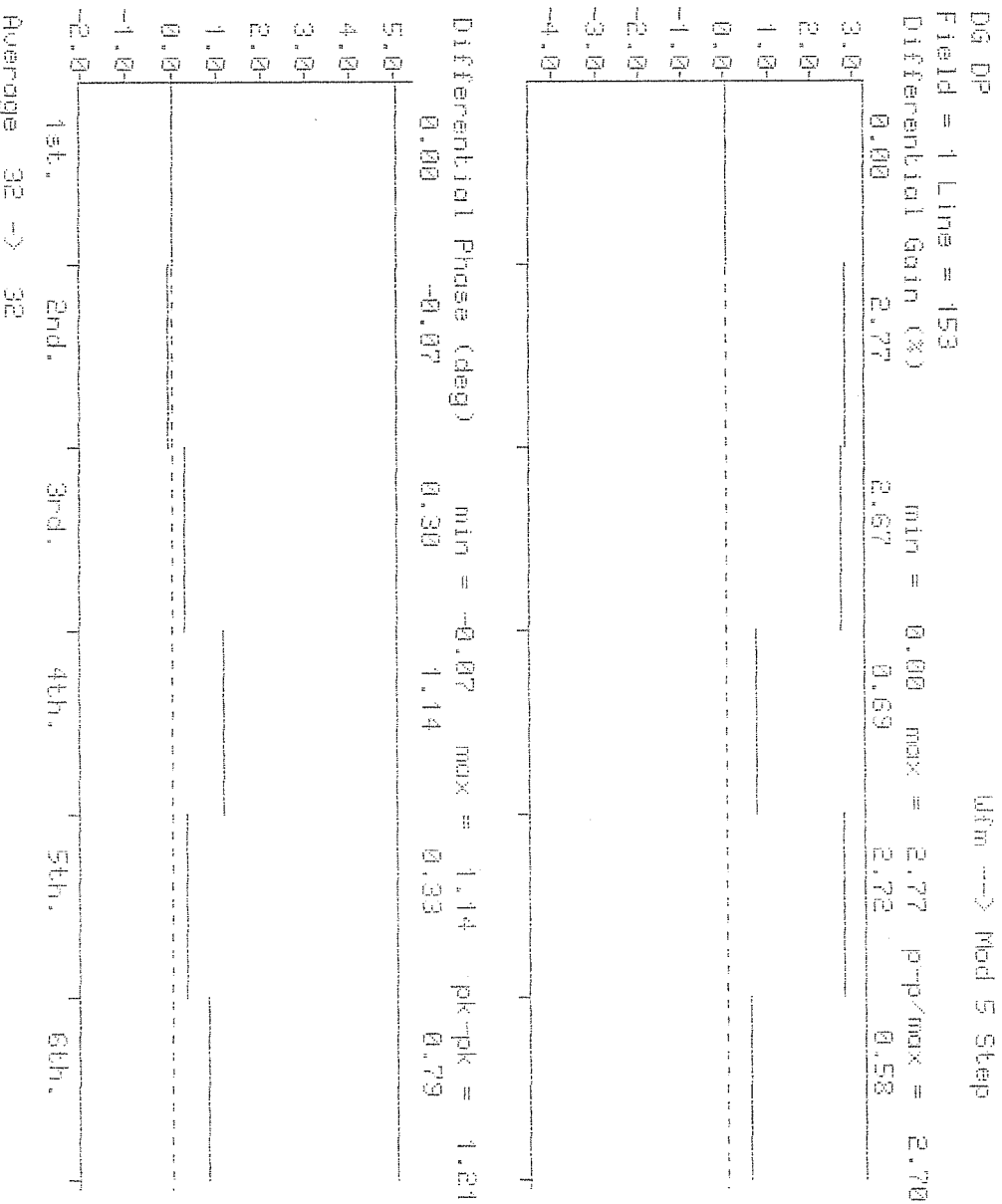
```
DG DP                                                    Wfm ---> Mod 5 Step
Field = 1 Line = 153
Differential Gain (%)
   0.00      2.77      2.67   min =  0.00  max =  2.77  p-p/max =  2.70
             0.69      2.72                                        0.58

 3.0-
 2.0-
 1.0-
 0.0-
-1.0-
-2.0-
-3.0-
-4.0-
```

Figure 3: Differential Phase 17 MHz channel spacing +/- 4 MHz FM deviation

```
Differential Phase (deg)
   0.00     -0.07      0.30   min = -0.07  max =  1.14  pk-pk =  1.21
            1.14                            0.33                  0.79

 5.0-
 4.0-
 3.0-
 2.0-
 1.0-
 0.0-
-1.0-
-2.0-
    1st.    2nd.    3rd.    4th.    5th.    6th.

Average  32 -> 32
```

Figure 4: Demodulated linearity waveform 12 MHz channel spacing (BAS relocation Frequencies) +/-3 MHz FM deviation

Volts

IRE:FLT

0.0

0.5

100.0

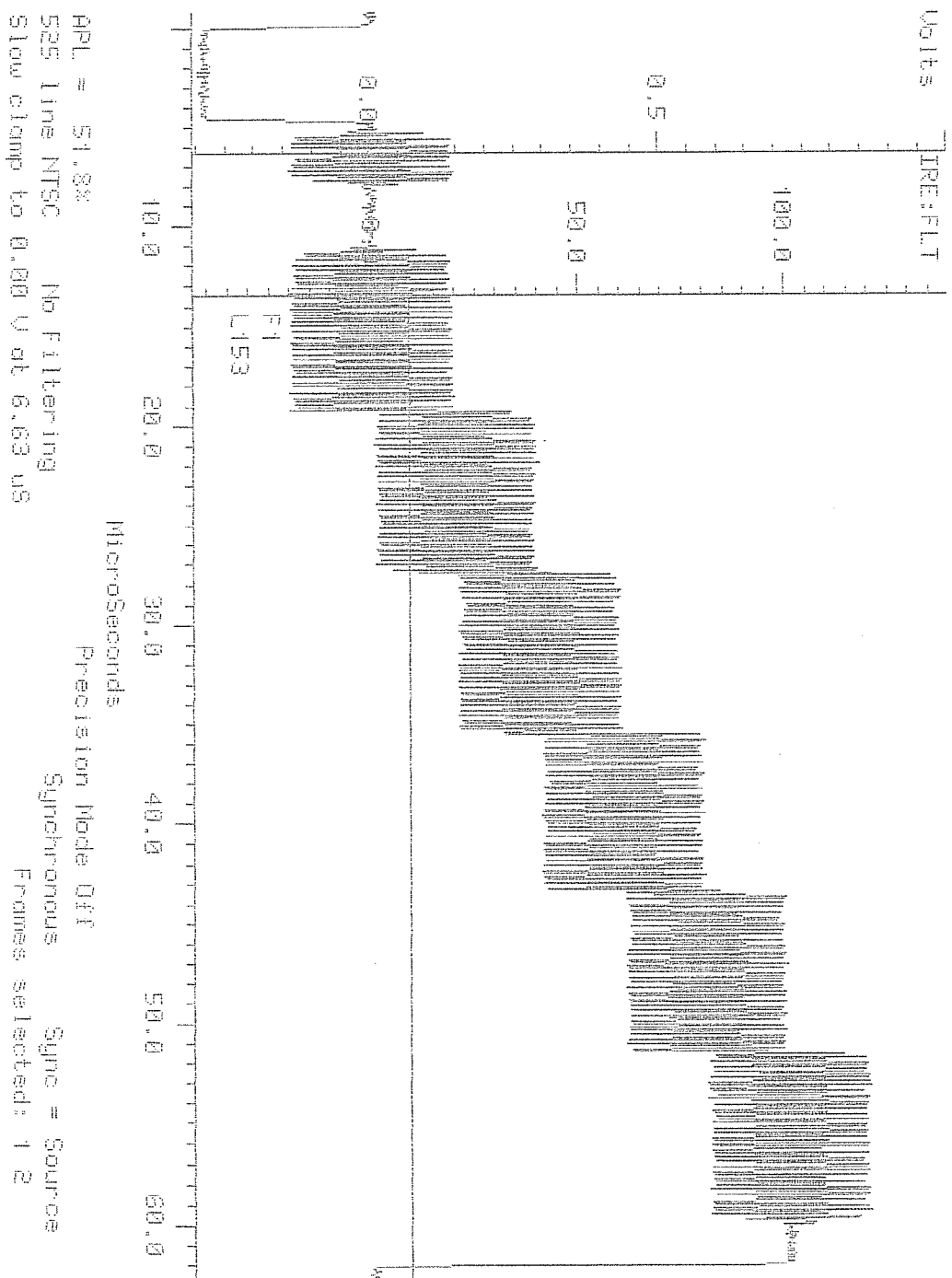50.0

F1
L153

Volts

10.0

20.0

30.0

40.0

50.0

60.0

MicroSeconds

APL = 51.8%
525 line NTSC   No Filtering
Slow clamp to 0.00 V at 6.63 us

Precision Mode Off
Synchronous   Sync = Source
                     Frames selected: 12

Figure 5: Differential Gain 12 MHz channel spacing (BAS relocation Frequencies) +/-3 MHz FM deviation

DG DP
Field = 1 Line = 153   Wfm ---> Mod 5 Step
Differential Gain (%)
0.00   -0.52   -1.41   min = -1.83   max = 0.00   p-p/max = 1.83
                            -1.83   -1.55   -1.55

3.0-
2.0-
1.0-
0.0-
-1.0-
-2.0-
-3.0-
-4.0-
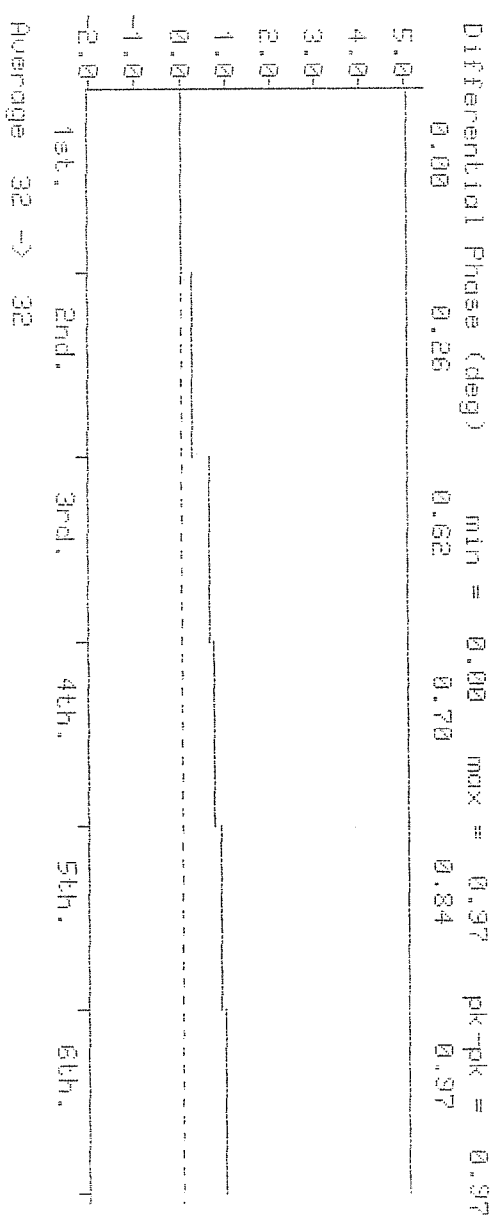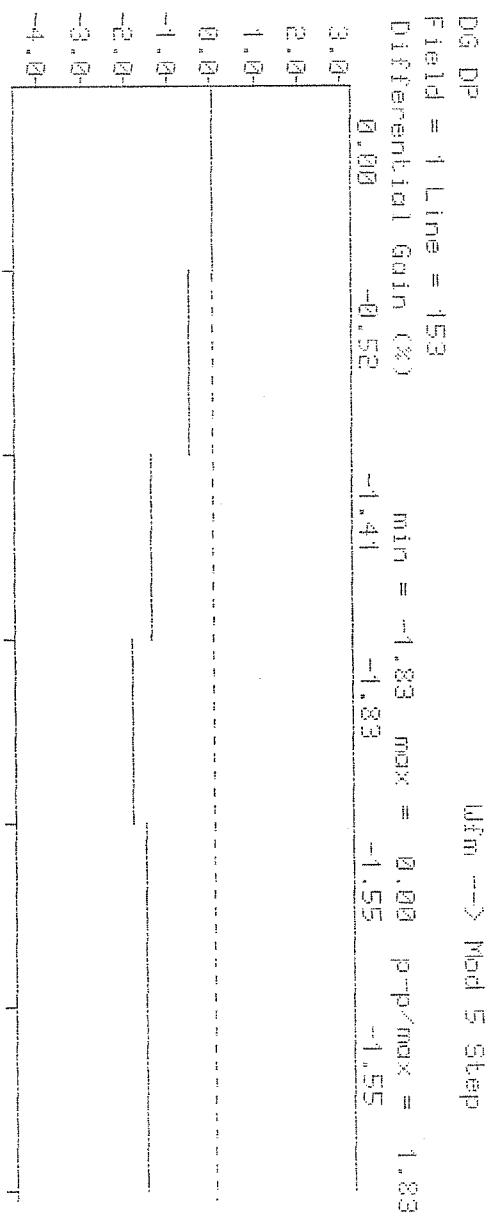
Figure 6: Differential Phase 12 MHz channel spacing (BAS relocation Frequencies) +/-3 MHz FM deviation

Differential Phase (deg)   min = 0.00   max = 0.97   pk-pk = 0.97
0.00   0.26   0.62   0.70   0.84   0.97

5.0-
4.0-
3.0-
2.0-
1.0-
0.0-
-1.0-
-2.0-

1st.   2nd.   3rd.   4th.   5th.   6th.
Average   32 -> 32

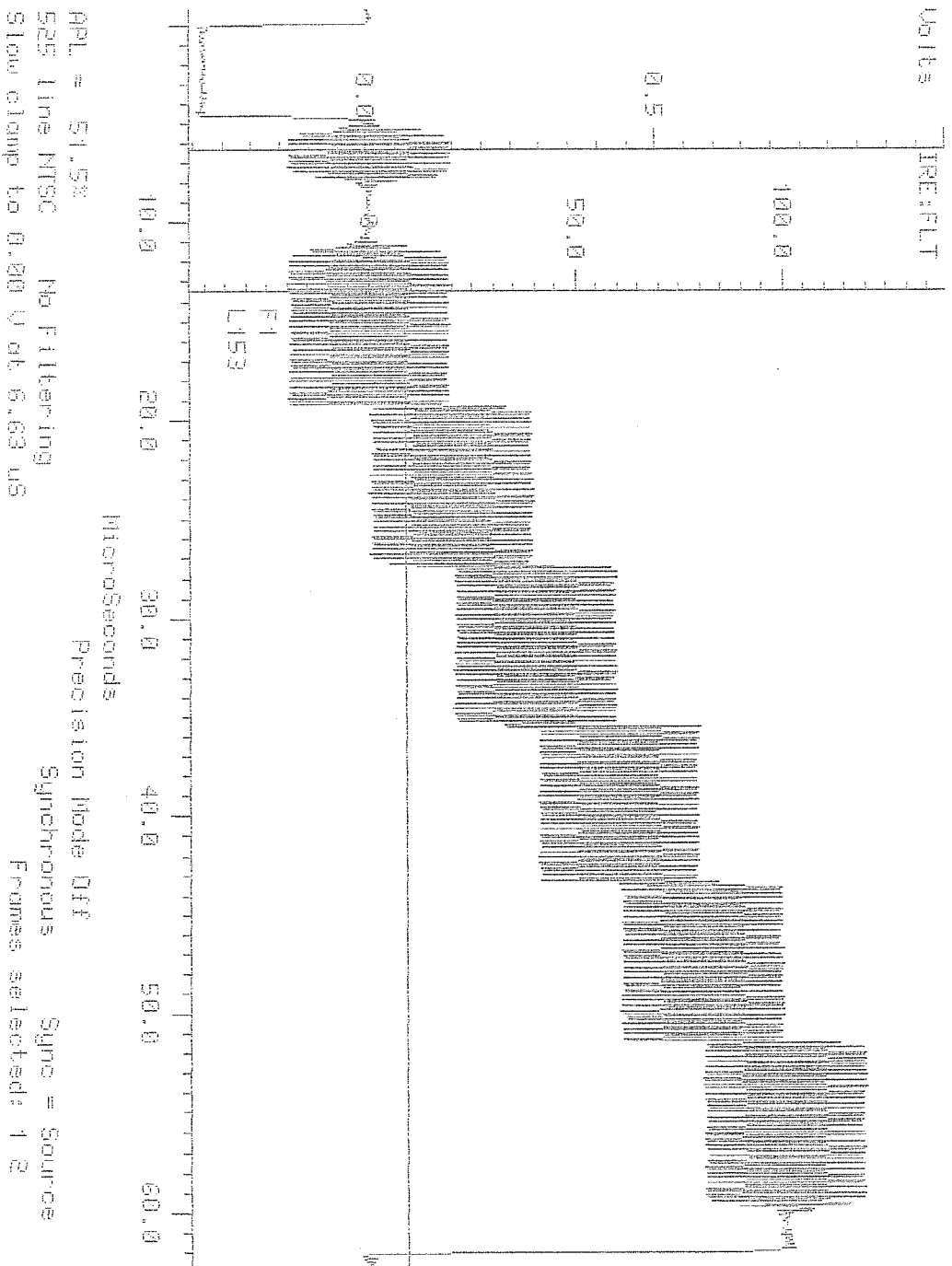**Figure 7: Demodulated linearity waveform 25 MHz channel spacing (7 Ghz band) +/-4 MHz FM deviation**

Figure 8: Differential Gain 25 MHz channel spacing (7 Ghz band) +/-4 MHz FM deviation
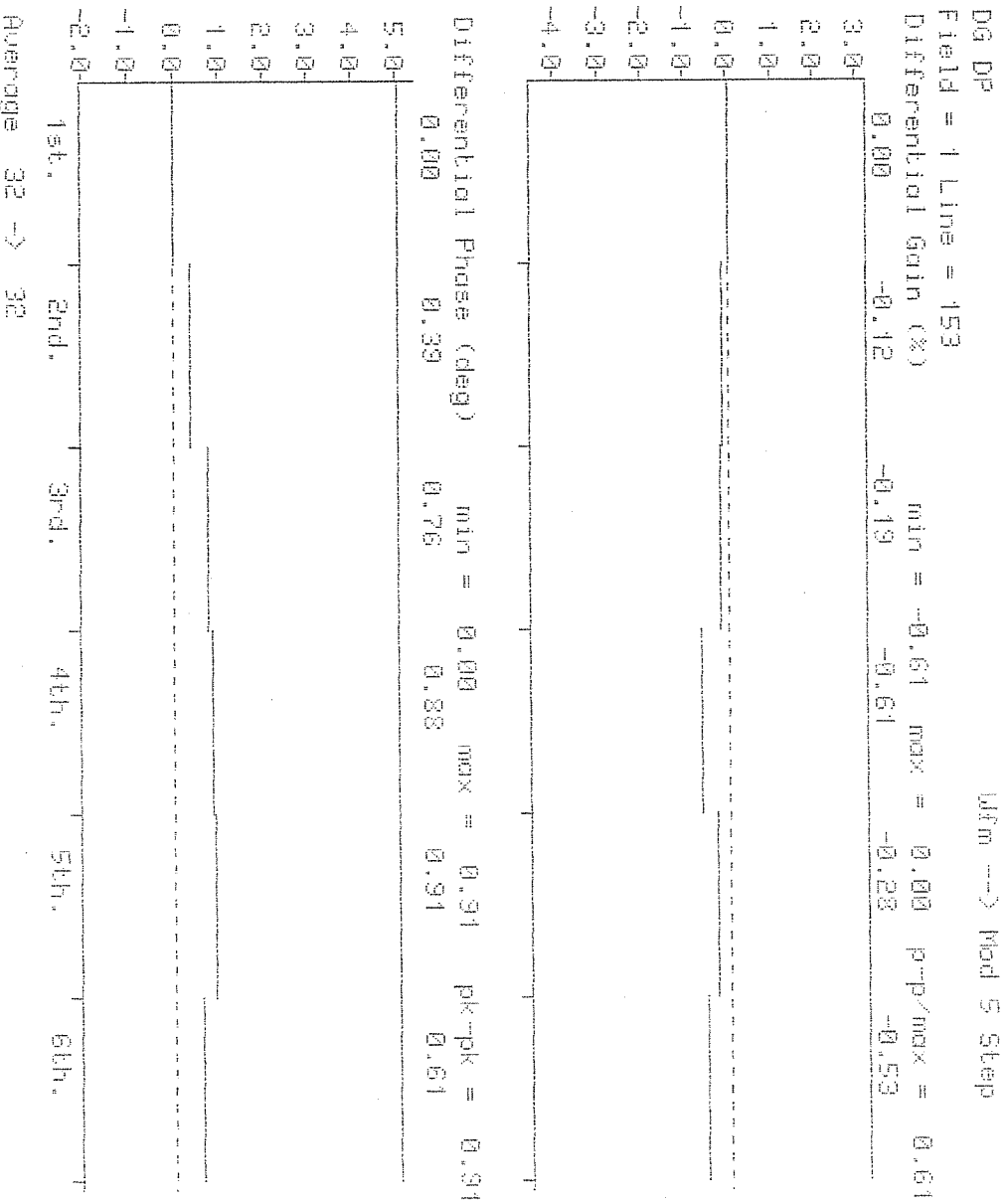
DG DP
Field = 1 Line = 153
Differential Gain (%)   wfm --> Mod 5 Step

0.00   -0.12   -0.19   min = -0.61   max = 0.00   p-p/max = 0.61
                                 -0.61   -0.28   -0.53

3.0-
2.0-
1.0-
0.0-
-1.0-
-2.0-
-3.0-
-4.0-

Differential Phase (deg)   min = 0.00   max = 0.91   pk-pk = 0.91
0.00   0.39   0.76   0.00   0.88   0.61
                                     0.76   0.91

5.0-
4.0-
3.0-
2.0-
1.0-
0.0-
-1.0-
-2.0-

1st.   2nd.   3rd.   4th.   5th.   6th.
Average 32 -> 32

Figure 9: Differential Phase 25 MHz channel spacing (7 Ghz band) +/-4 MHz FM deviation

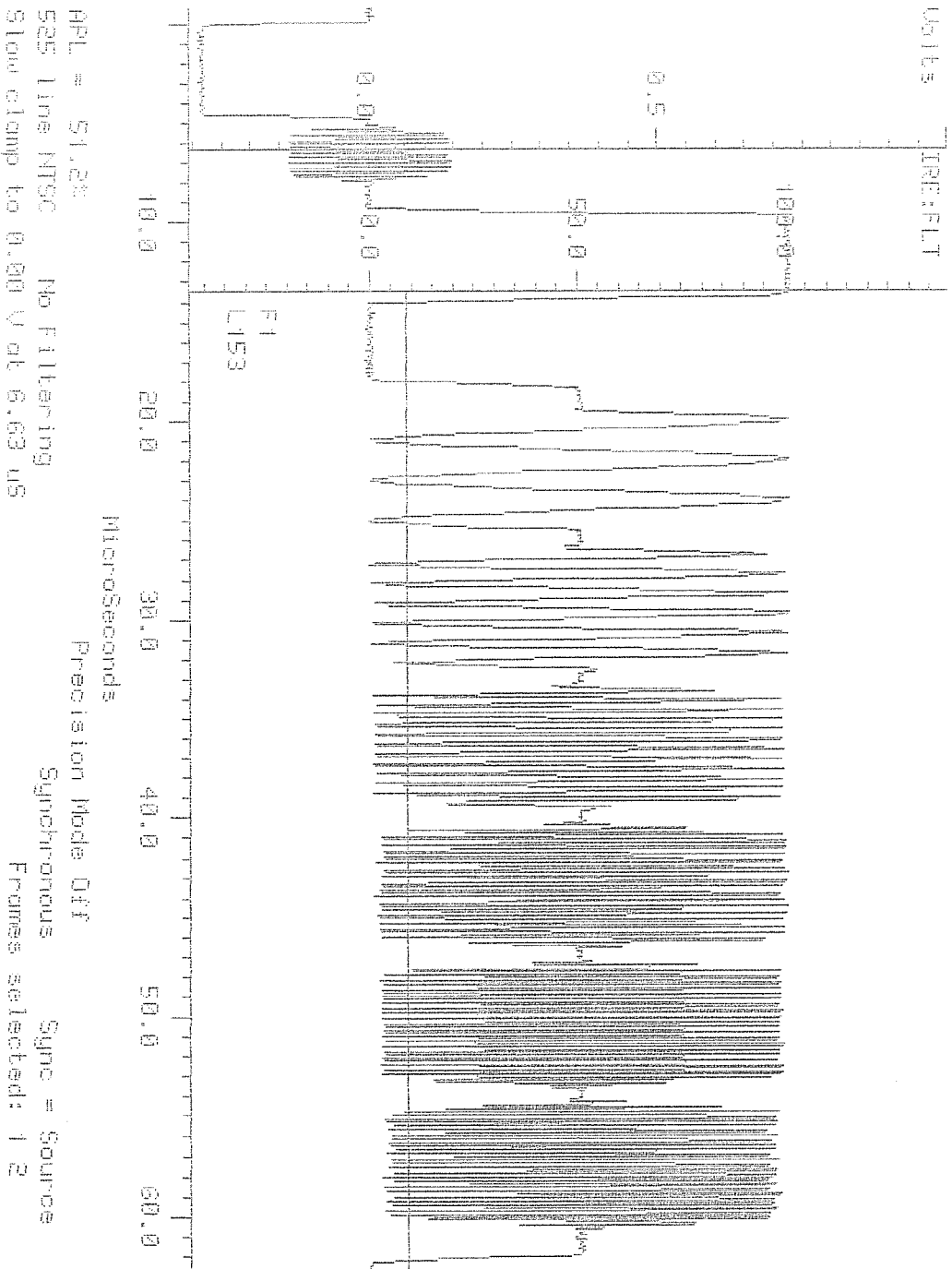**Figure 10: Demodulated multiburst waveform 17 MHz channel spacing +/- 4 MHz FM deviation**

Figure 11: Demodulated multiburst relative response 17 MHz channel spacing +/- 4 MHz FM deviation
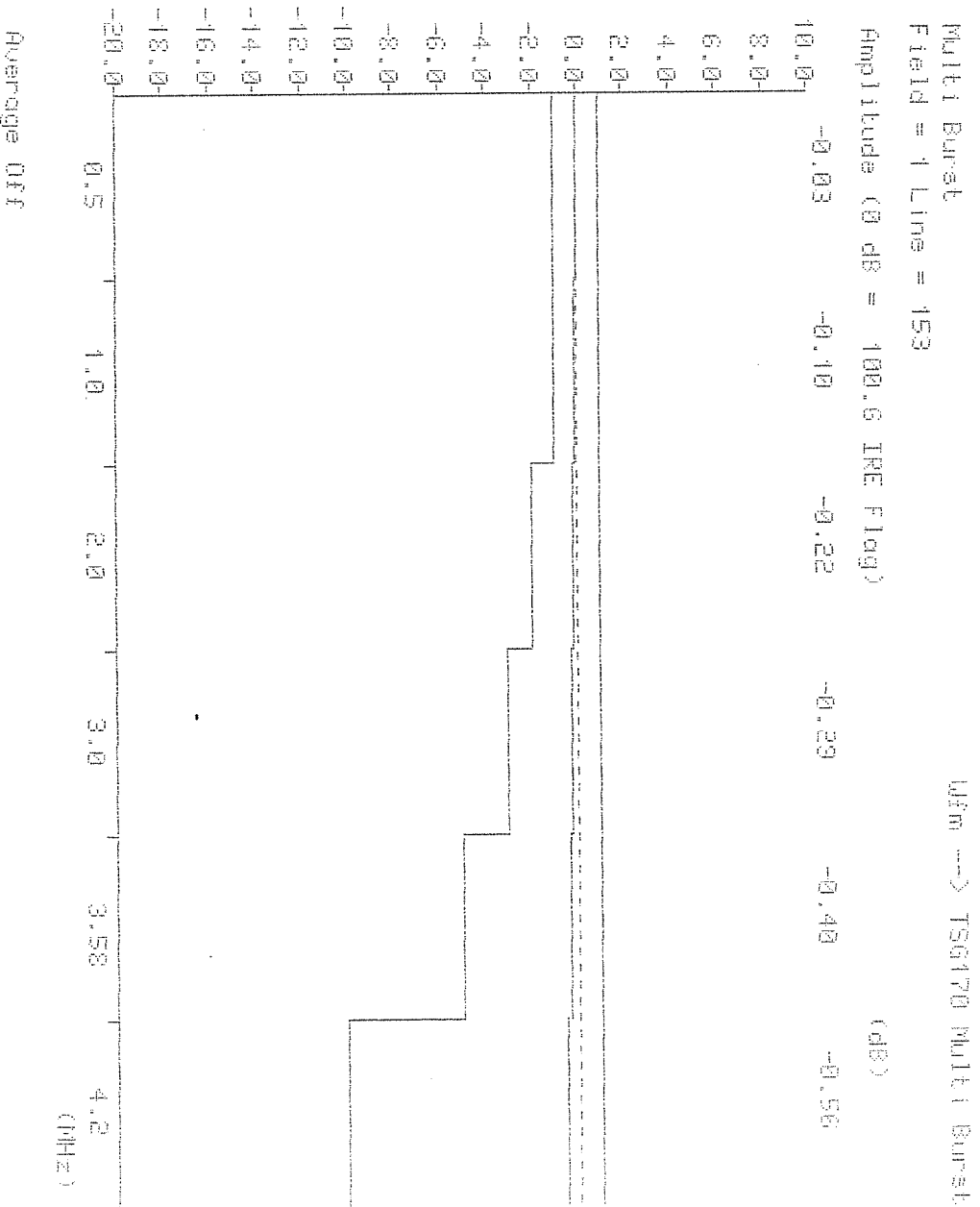
Figure 12: Demodulated multiburst waveform 12 MHz channel spacing (BAS relocation Frequencies) +/-3 MHz FM deviation
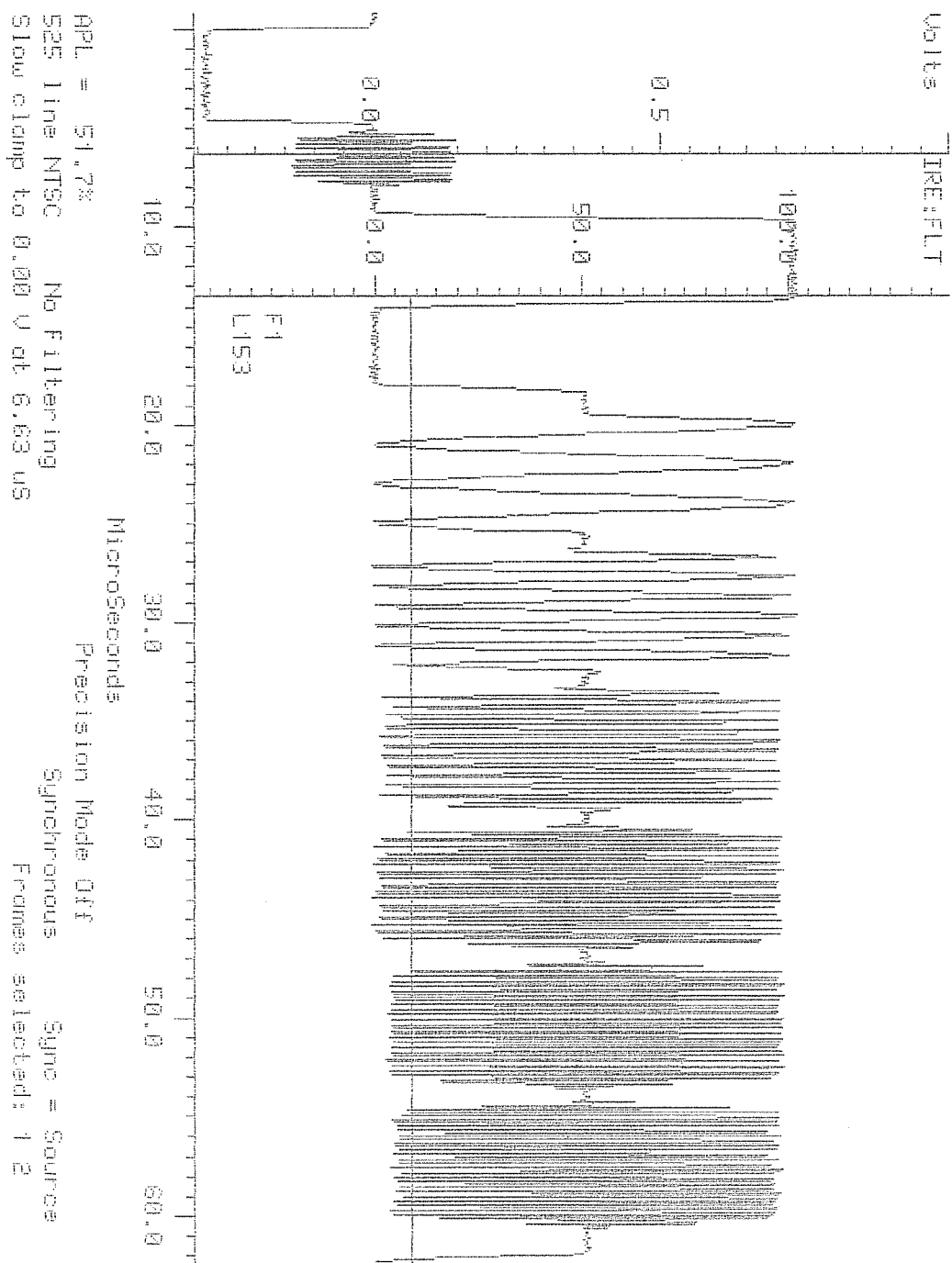
Figure 13: Demodulated multiburst relative response 12 MHz channel spacing (BAS relocation Frequencies) +/-3 MHz FM deviation
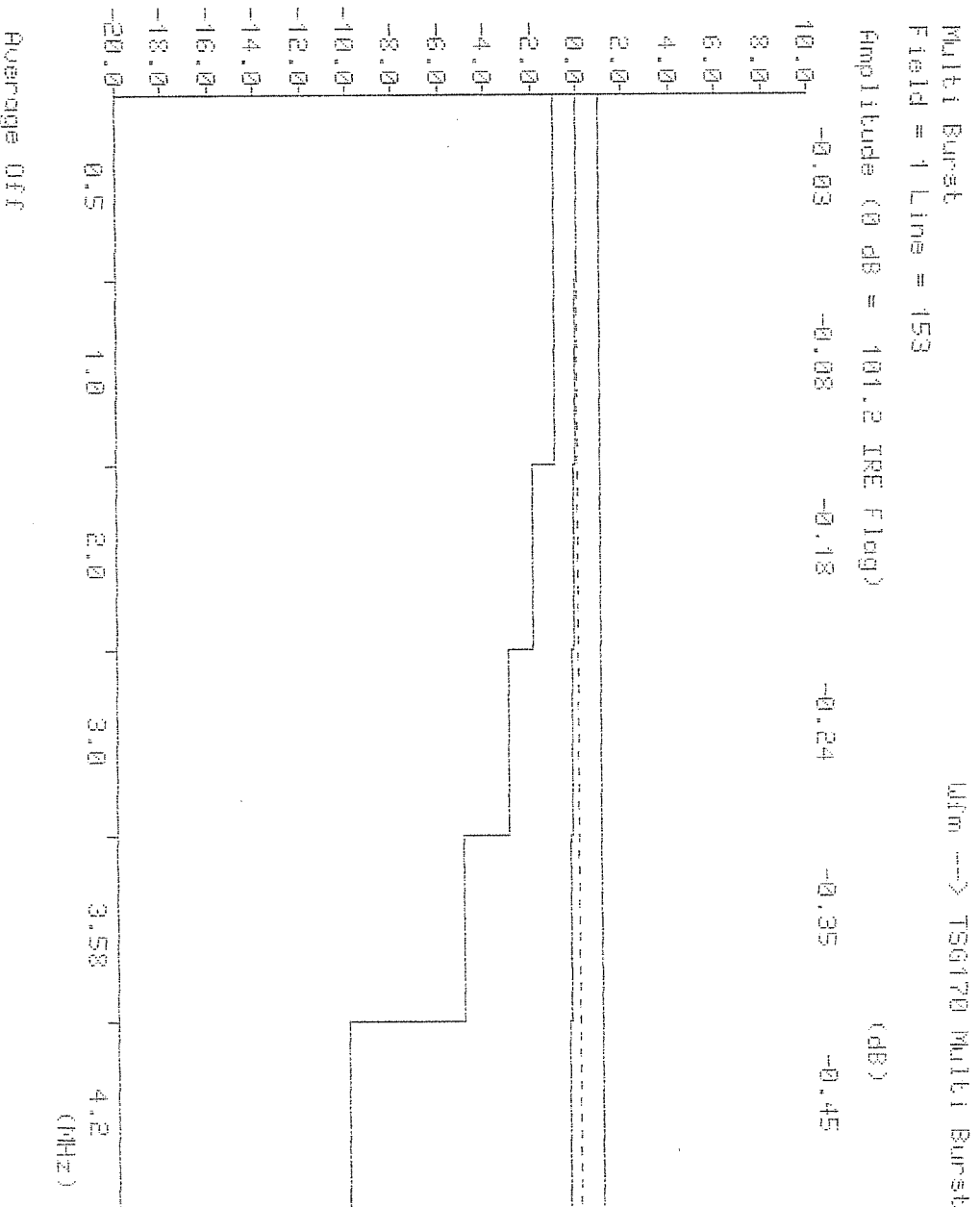
Figure 14: Demodulated multiburst waveform 25 MHz channel spacing (7 Ghz band) +/-4 MHz FM deviation
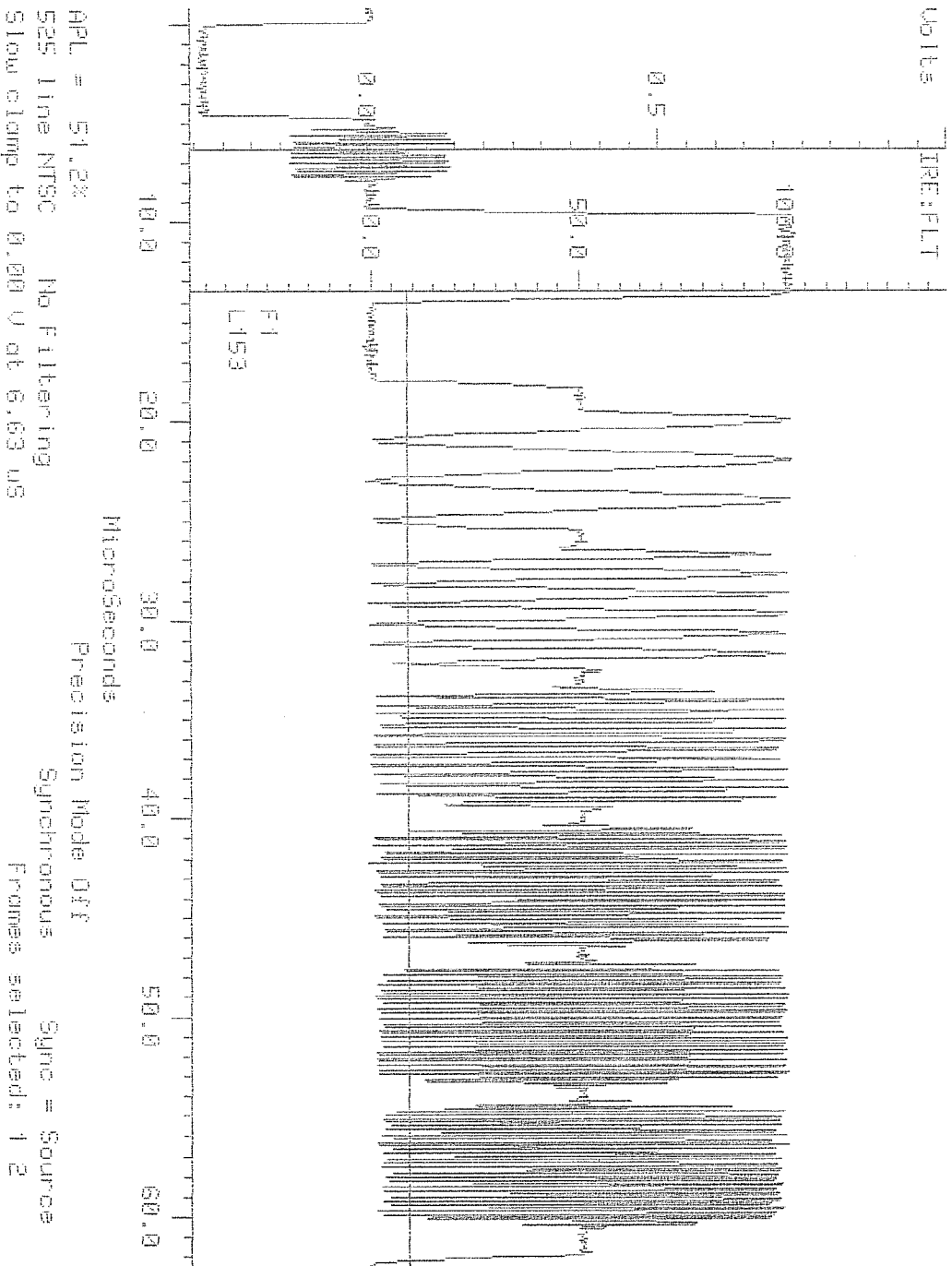
Figure 15: Demodulated multiburst relative response 25 MHz channel spacing (7 Ghz band) +/-4 MHz FM deviation