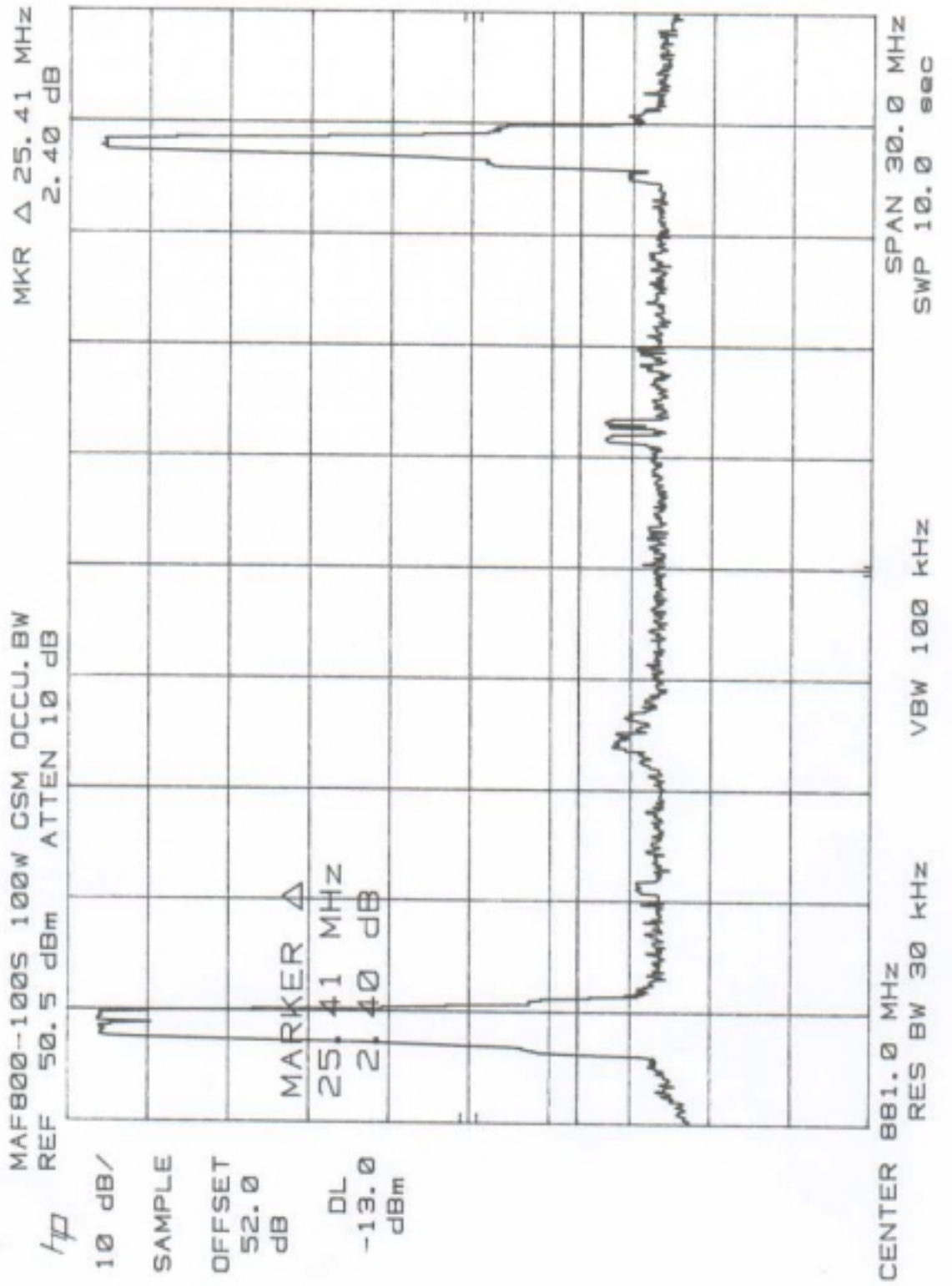
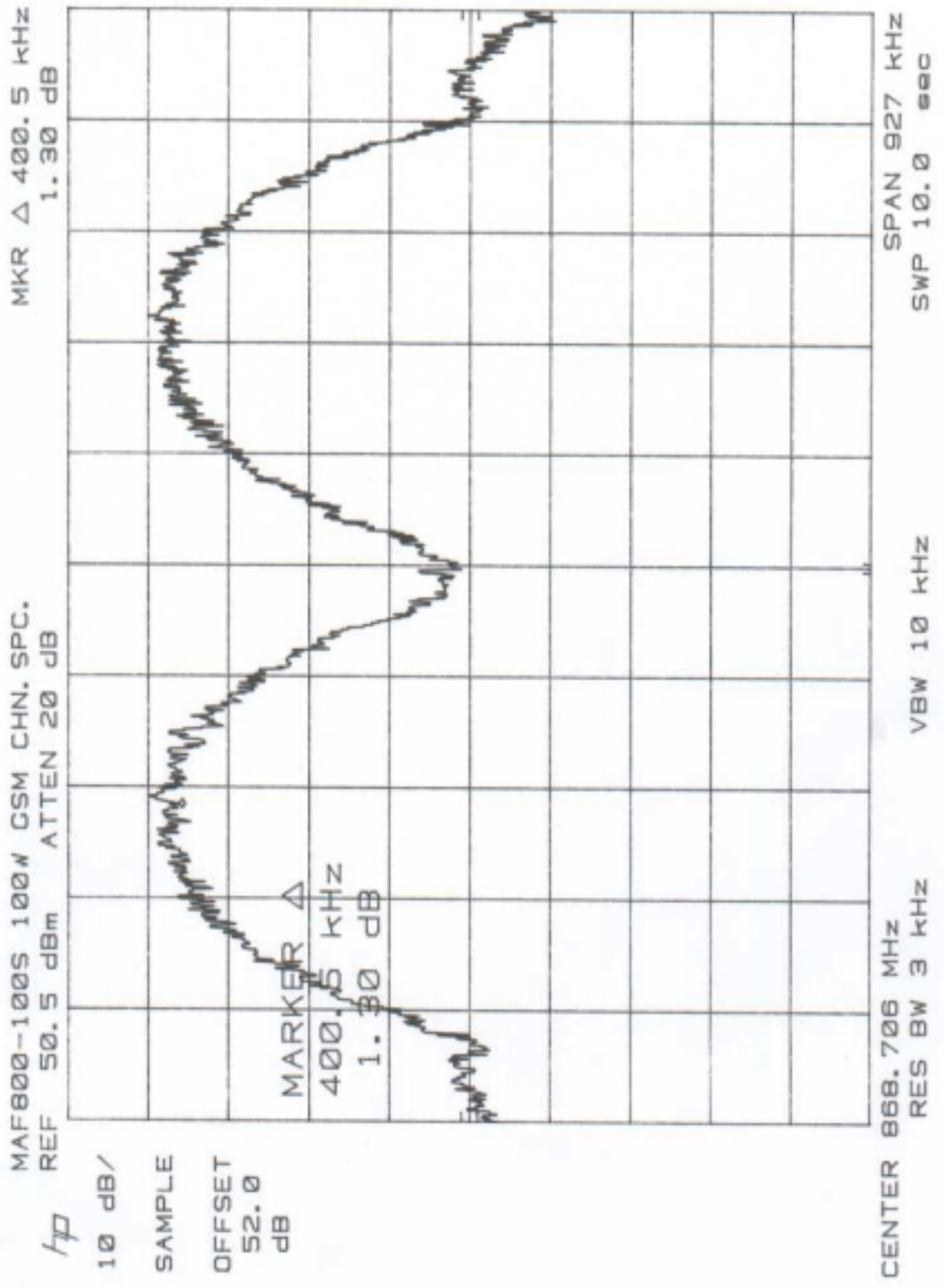


Data Package 5
GSM Modulated Test Data





MAF800-100S 100W GSM COND. SPUR.
REF 50.5 dBm ATTEN 20 dB

/10

10 dB/

SAMPLE

OFFSET

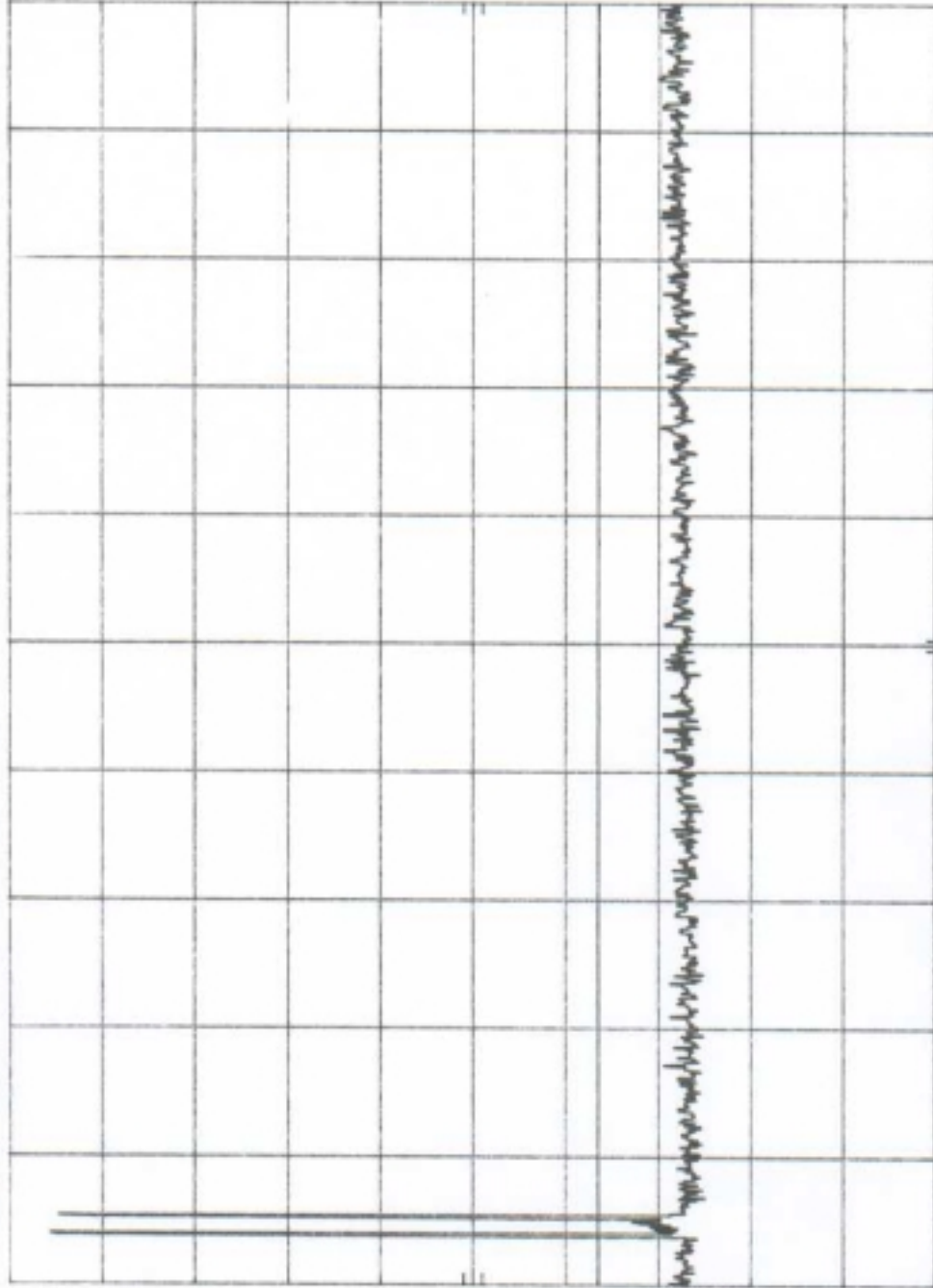
52.0

dB

DL

-13.0

dBm



START 800 MHz

RES BW 30 kHz

VBW 100 kHz

STOP 2.50 GHz

SWP 5.10 sec

MAF800-100S 100W GSM COND. SPUR.
REF 50.5 dBm ATTEN 10 JB

10

10 dB/

SAMPLE

OFFSET

52.0

dB

DL

-13.0

dBm



START 2.500 000 000 GHz
RES BW 30 kHz

VBW 100 kHz

STOP 2.500 000 100 GHz
SWP 9.90 sec

MAF800-100S 100W GSM COND. SPUR.
REF 50.5 dBm ATTEN 10 J0

1/p

10 dB/

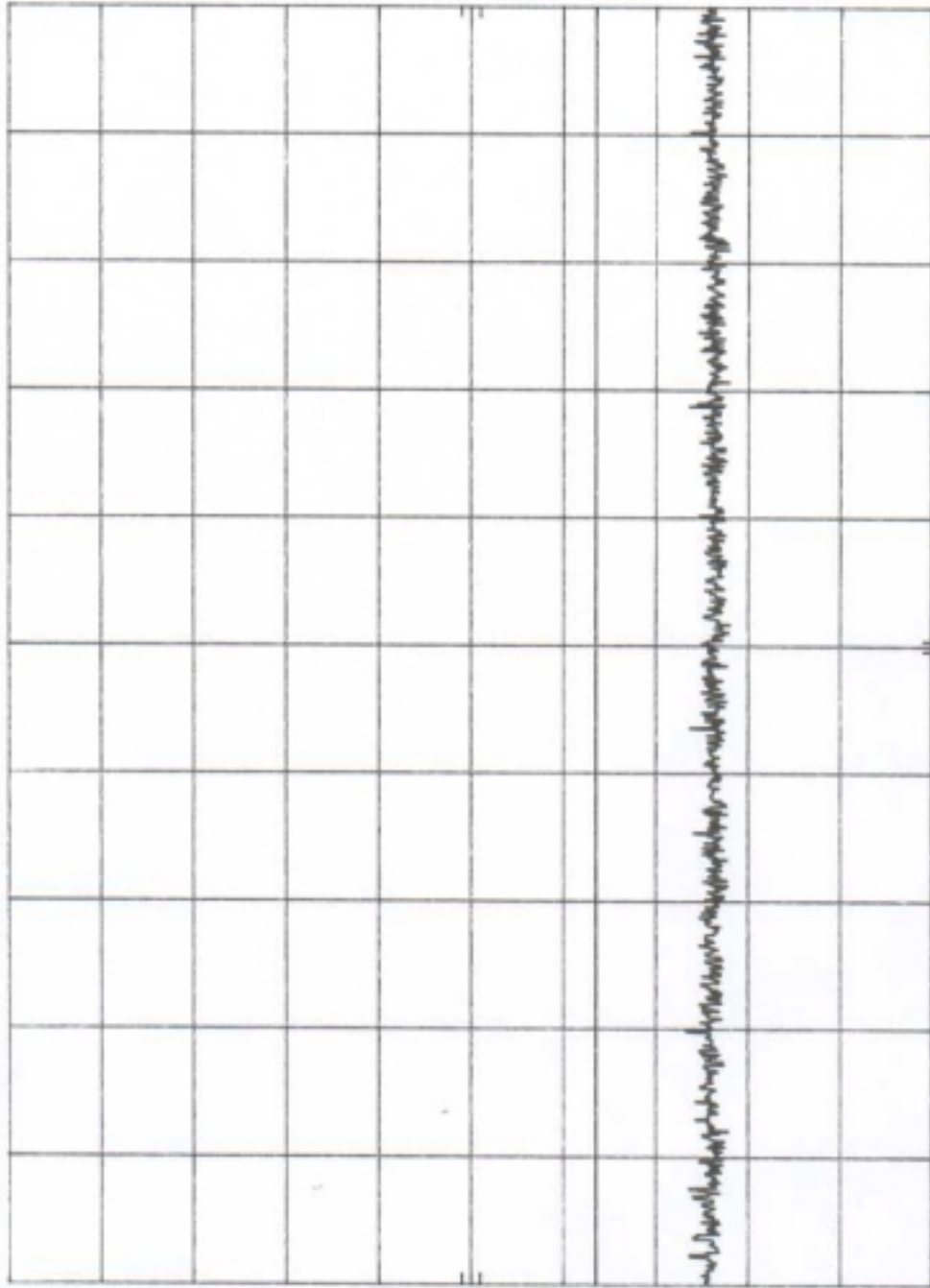
SAMPLE

OFFSET

52.0
dB

DL

-13.0
dBm



START 5.80 GHz
RES BW 30 kHz

VBW 100 kHz

STOP 10.00 GHz
SWP 12.6 sec

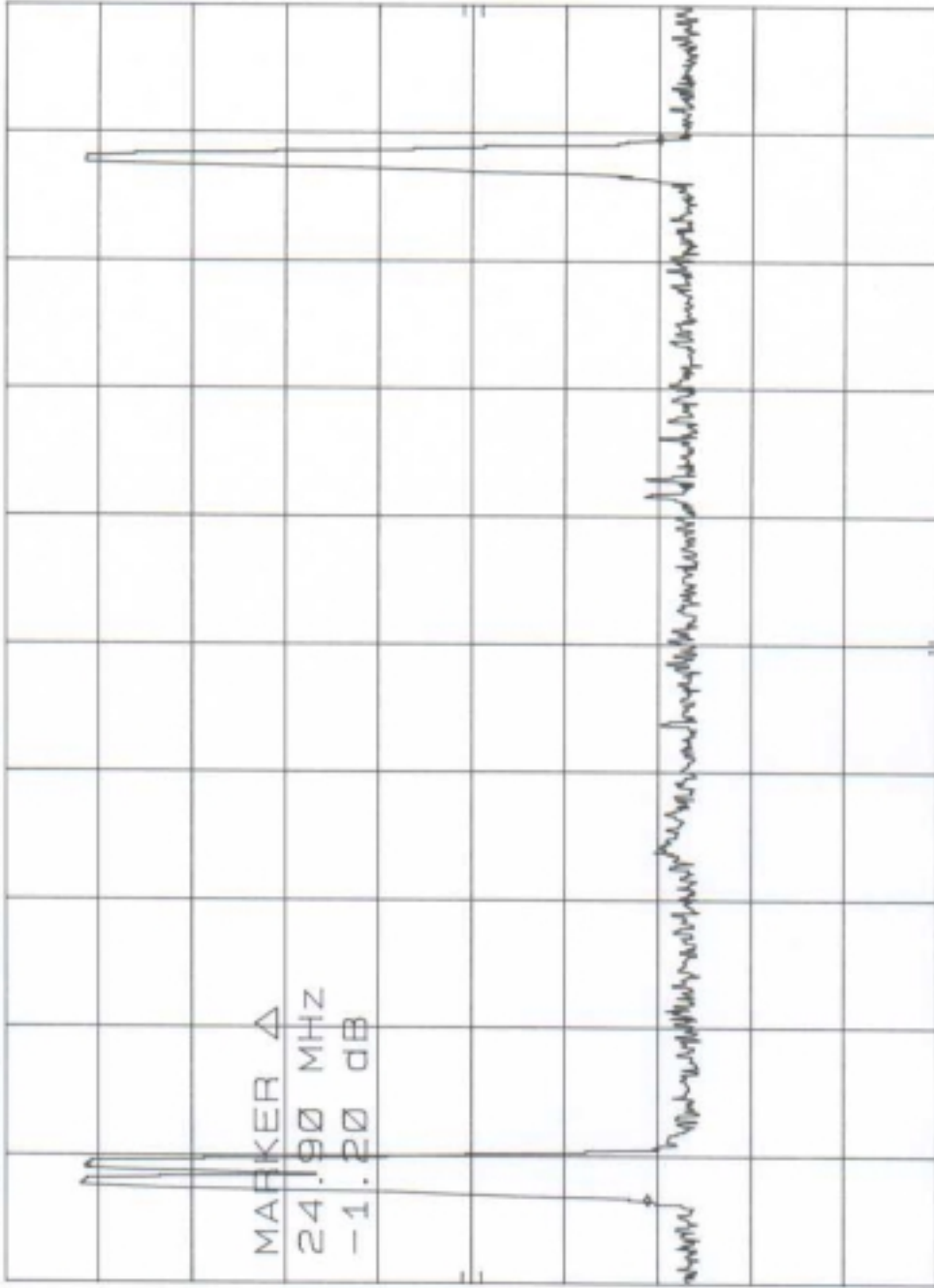
Signal Generator Output

GSM SOURCE
REF -10.0 dBm
ATTEN 10 dB

10 dB/

10 dB/

-1.2 [dB



EMI Datasheet (ITE Devices)


| | | | | |
|---|---|---------------------------------|--------------------------------------|--|
|  | 5969 Robinson Avenue Riverside, CA 92503 (909) 637-2630 FAX (909) 637-2704 | | Date: April 9, 2002 Specification | |
| | DNB Job Number: | 28116 | Serial Number: N/A ☑ FCC Class A | |
| | Customer: | Paradigm Wireless Systems, Inc. | | |
| | Model Number: | MAF800-100S | | |
| Description: | Multi Carrier Power Amplifier | | | |

| | | | | | |
|---|--|---------|--------|--------|------------|
| EUT performed within the requirements of the applicable Standard(s) | | [X] YES | [] NO | Signed | Mike Guara |
| Bcn | - A.H. Systems SAS-200/540 Biconical Antenna S/N 138 (30-200 Mhz) | | | | |
| Log | - EMCO 3146 Log-Periodic Antenna S/N 1284 (200-1000 Mhz) | | | | |
| Dcf | - Distance Correction Factor = 20*LOG ₁₀ (Test Distance/Specification Distance) | | | | |
| Typ | - Type of reading PK = Peak reading QP = Quasi-peak reading | | | | |
| ns" | - Readings taken with a res bandwidth of 10KHz do to nearby ambient signal | | | | |

NOTES:


| Freq | Meter | Bcn | Log | Cbl | Amp | Dcf | Corr | Lim dB | Delta | Corr uV | Lim uV | Delta | Typ | Tbl | Pi | Hgt |
|---------|-------|------|------|-----|-------|-----|------|--------|-------|---------|--------|-------|-----|-----|----|------|
| 30.025 | 27.3 | 11.9 | 0.0 | .7 | -24.1 | 0 | 15.8 | 39.1 | -23.3 | 6 | 90 | -84 | PK | 175 | H | 1.20 |
| 30.267 | 25.0 | 11.9 | 0.0 | .7 | -24.1 | 0 | 13.5 | 39.1 | -25.6 | 5 | 90 | -85 | PK | 145 | H | 1.01 |
| 58.179 | 29.2 | 11.9 | 0.0 | 1.0 | -24.0 | 0 | 18.1 | 39.1 | -21 | 8 | 90 | -82 | PK | 64 | H | 1.01 |
| 58.270 | 42.7 | 11.9 | 0.0 | 1.0 | -24.0 | 0 | 31.6 | 39.1 | -7.5 | 38 | 90 | -52 | PK | 145 | H | 1.01 |
| 66.061 | 30.4 | 10.2 | 0.0 | 1.1 | -24.1 | 0 | 17.6 | 39.1 | -21.5 | 8 | 90 | -82 | PK | 252 | H | 1.01 |
| 66.396 | 39.6 | 10.1 | 0.0 | 1.1 | -24.1 | 0 | 26.7 | 39.1 | -12.4 | 22 | 90 | -68 | PK | 84 | H | 1.01 |
| 108.739 | 29.0 | 13.7 | 0.0 | 1.4 | -24.0 | 0 | 20.1 | 43.5 | -23.4 | 10 | 150 | -140 | PK | 23 | H | 1.01 |
| 109.676 | 43.7 | 13.8 | 0.0 | 1.4 | -24.0 | 0 | 34.9 | 43.5 | -8.6 | 56 | 150 | -94 | PK | 301 | H | 1.01 |
| 225.902 | 29.1 | 0.0 | 14.3 | 2.0 | -24.0 | 0 | 21.4 | 46.4 | -25.0 | 12 | 210 | -198 | PK | 99 | H | 1.01 |
| 260.044 | 28.4 | 0.0 | 14.3 | 2.2 | -24.2 | 0 | 20.7 | 46.4 | -25.7 | 11 | 210 | -199 | PK | 112 | H | 1.39 |
| 262.089 | 31.6 | 0.0 | 14.4 | 2.2 | -24.2 | 0 | 24 | 46.4 | -22.4 | 16 | 210 | -194 | PK | 249 | H | 2.61 |
| 268.094 | 32.0 | 0.0 | 14.9 | 2.2 | -24.2 | 0 | 24.9 | 46.4 | -21.5 | 18 | 210 | -192 | PK | 257 | H | 2.61 |
| 274.068 | 29.6 | 0.0 | 15.3 | 2.3 | -24.2 | 0 | 23 | 46.4 | -23.4 | 14 | 210 | -196 | PK | 241 | H | 2.62 |

Radiated Spurious Data

| | | | | | |
|---|---|---------------------------|----------------|---------------|-----------------|
|  | 5969 Robinson Avenue Riverside, CA 92503 (909) 637-2630 FAX (909) 637-2704 | | | | |
| | DNB Job Number: | 28116 | Date: | 13 April 2002 | |
| | Customer: | Paradigm Wireless Systems | | | |
| | Model Number: | MAF800-100S | Serial Number: | N/A | |
| Description: | Multi Carrier Power Amplifier | | | Specification | ☑ FCC Parts: 90 |

| Transmitter Number | Fundamental Frequency in MHz | Rated Output Power in Watts | Channel Spacing in kHz | Modulation |
|--------------------|------------------------------|-----------------------------|------------------------|--------------|
| 1 - Band 1 | 881 | 100 | 25 | "Worst Case" |

| Harm | Freq in Mhz | Dipole | H Gain | Horz Mtr | Power | Corr'd | Vert Mtr | Power | Corr'd | Antenna |
|------|-------------|--------|--------|----------|-------|--------|----------|-------|--------|---------|
| Fund | 881 | 3.30 | - | -25.7 | -21.4 | -21.4 | -28.8 | -24.5 | -24.5 | Log |
| 2 | 1.762 | - | 7.83 | -56.5 | -39.7 | -47.53 | -55.9 | -39.1 | -46.93 | Horn |
| 3 | 2.645 | - | 8.70 | -47.5 | -35.1 | -43.8 | -48.6 | -36.2 | -44.9 | Horn |
| 4 | 3.524 | - | 8.98 | -57.1 | -41.7 | -50.68 | -64.5 | -49.1 | -58.08 | Horn |
| 5 | 4.405 | - | 9.63 | -68.6 | -51.2 | -60.83 | -68.3 | -50.9 | -60.53 | Horn |
| 6 | 5.286 | - | 10.29 | -69.1 | -49.9 | -60.19 | -69.0 | -49.8 | -60.09 | Horn |
| 7 | 6.167 | - | 10.45 | -63.7 | -43.5 | -53.95 | -64.5 | -44.3 | -54.75 | Horn |
| 8 | 7.048 | - | 10.21 | -64.1 | -40.7 | -50.91 | -64.5 | -43.5 | -53.71 | Horn |
| 9 | 7.929 | - | 10.29 | -64.3 | -42.3 | -52.59 | -64.0 | -42.0 | -52.29 | Horn |
| 10 | 8.810 | - | 11.20 | -64.8 | -43.6 | -54.8 | -64.6 | -43.4 | -54.6 | Horn |

| | | |
|---|---|---------------------|
|  | 5969 Robinson Avenue Riverside, CA 92503 (909) 637-2630 FAX (909) 637-2704 | |
| | DNB Job Number: 28116 | Date: 13 April 2002 |
| Customer: Paradigm Wireless Systems | Specification ☞ FCC Parts: 90 | |
| Model Number: MAF800-100S | Serial Number: N/A | |
| Description: Multi Carrier Power Amplifier | | |

Radiated Spurious Data

| Freq | 881 | 1.762 | 2.645 | 3.524 | 4.405 | 5.286 | 6.167 | 7.048 | 7.929 | 8.810 |
|----------------|-------|--------|-------|--------|--------|--------|--------|--------|--------|-------|
| Horz Corr'd | -21.4 | -47.53 | -43.8 | -50.68 | -60.83 | -60.19 | -53.95 | -50.91 | -52.59 | -54.8 |
| Vert Corr'd | -24.5 | -46.93 | -44.9 | -58.08 | -60.53 | -60.09 | -54.75 | -53.71 | -52.29 | -54.6 |
| 12.5 kHz Limit | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 | -20.0 |
| 2.5 kHz Limit | -13.0 | -13.0 | -13.0 | -13.0 | -13.0 | -13.0 | -13.0 | -13.0 | -13.0 | -13.0 |

