

MITEQ, INC
100 Dundee Drive
Newburgh, New York 11766-2088
Tel: (845) 439-7400
Fax: (845) 439-7450

| | |
|------------------|---------------------|
| Project : | MQ0169479 |
| Int. Transfer : | |
| Customer P / N : | AMFW-5S-08100910-50 |
| Customer P. O. : | 02719100 |
| Model Number : | AMFW-5S-08100910-50 |
| Serial Number : | 1451959 |

| SPECIFICATIONS | |
|------------------------|----------------------|
| Frequency (GHz) | 8.1 - 9.1 GHz |
| Gain, at +23C (dB) | 40dB min |
| Gain Flatness ± | 1dB, max |
| VSWR: Input / Output | 1.5,max / 1.5,max |
| NOISE TEMP: | 50k, max |
| POUT @ 1 dB Comp (dBm) | 10dBm, min |
| DC Power Requirements | 15V @ 225mA, nominal |
| Operating Temp (C) | +23 C |
| Outline Drawing | 138968-1 |

This Unit can safely handle a maximum input power of 10 dBm, CW.

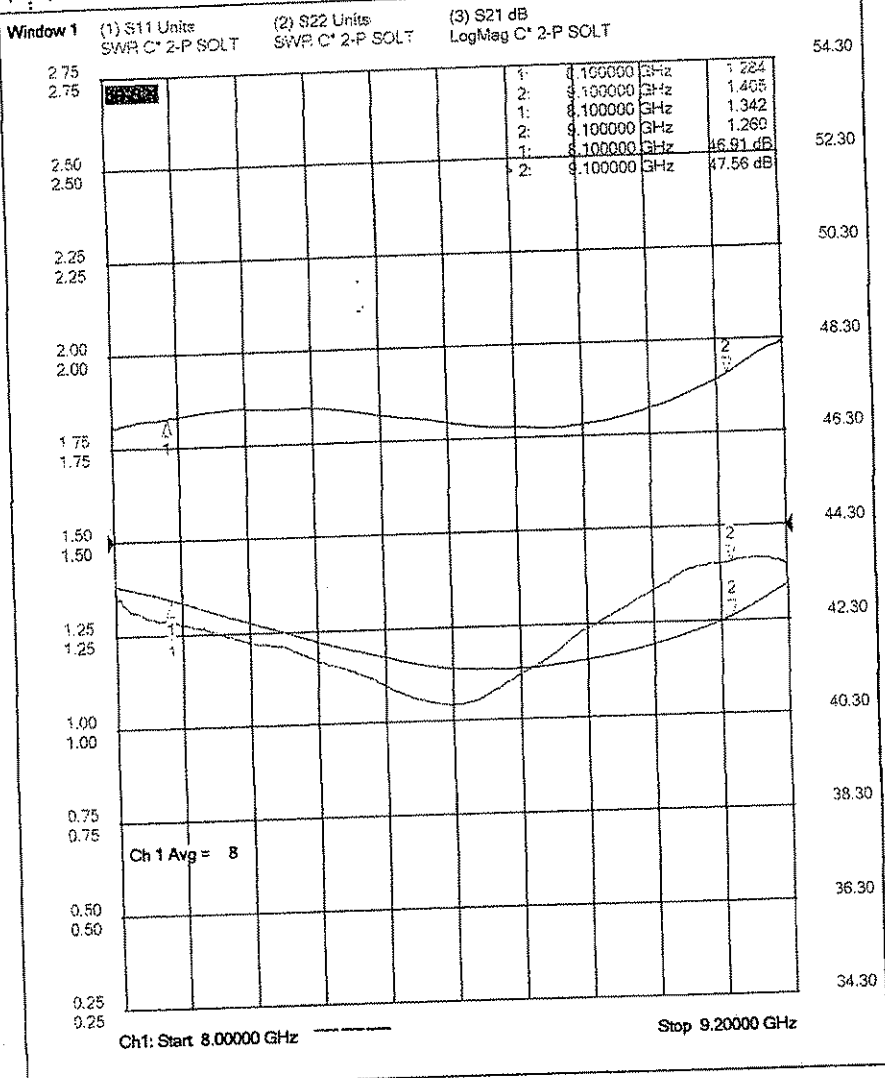
Measured Current 120 mA

| Frequency (GHz) | Noise Temp (K) | Pout @ 1 dB Comp (dBm) |
|-----------------|----------------|------------------------|
| 8.10 | 41 | 14.8 |
| 8.60 | 46 | 15.0 |
| 9.10 | 47 | 15.8 |

| MS3112E10-6P Pin-Out Assignments | |
|----------------------------------|--------|
| A | +15VDC |
| B | GND |
| C | GND |
| D | NC |
| E | NC |
| F | NC |

| | |
|----------------|-----------------|
| Max Input VSWR | Max Output VSWR |
| SEE PLOT | SEE PLOT |

Tested By: W. Rudy
Date: 3-5-09



MITEC, INC
100 Davison Drive
Newburgh, NY 11782-2088
Fax: (845) 456-7450

| | |
|------------------|---------------------|
| Project : | MQ0169479 |
| Int. Transfer : | |
| Customer P / N : | AMFW-5S-08100910-50 |
| Customer P. O. : | 02719100 |
| Model Number : | AMFW-5S-08100910-50 |
| Serial Number : | 1451960 |

| SPECIFICATIONS | |
|------------------------|----------------------|
| Frequency (GHz) | 8.1 - 9.1 GHZ |
| Gain, at +23C (dB) | 40dB min |
| Gain Flatness ± | 1dB, max |
| VSWR: Input / Output | 1.5,max / 1.5,max |
| NOISE TEMP: | 50k, max |
| POUT @ 1 dB Comp (dBm) | 10dBm, min |
| DC Power Requirements | 15V @ 225mA, nominal |
| Operating Temp (C) | +23 C |
| Outline Drawing | 138968-1 |

This Unit can safely handle a maximum input power of 10 dBm, CW.

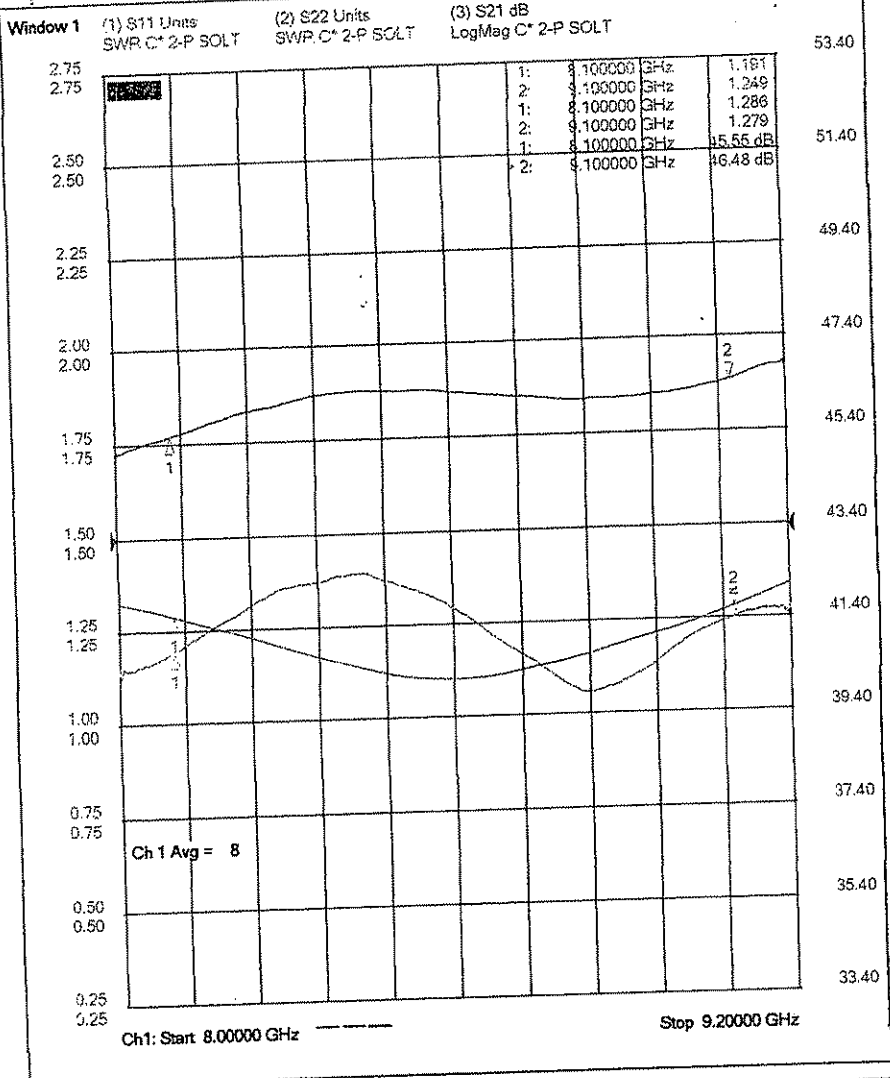
Measured Current 98 mA

| Frequency (GHz) | Noise Temp (K) | Pout @ 1 dB Comp (dBm) |
|-----------------|----------------|------------------------|
| 8.10 | 45 | 14.6 |
| 8.60 | 46 | 15.1 |
| 9.10 | 48 | 16.0 |

| MS3112E10-6P Pin-Out Assignments | |
|----------------------------------|--------|
| A | +15VDC |
| B | GND |
| C | GND |
| D | NC |
| E | NC |
| F | NC |

| | |
|----------------|-----------------|
| Max Input VSWR | Max Output VSWR |
| SEE PLOT | SEE PLOT |

Tested By: W. Rudy
Date: 3-5-09



MITEC, INC.
100 Swanton Drive
Hampton, New York 11766-2084
Tel: (845) 456-7400
Fax: (845) 456-7450

| | |
|------------------|---------------------|
| Project : | MQ0169479 |
| Int. Transfer : | |
| Customer P / N : | AMFW-6S-08100910-50 |
| Customer P. O. : | 02719100 |
| Model Number : | AMFW-6S-08100910-50 |
| Serial Number : | 1451961 |

| SPECIFICATIONS | |
|------------------------|----------------------|
| Frequency (GHz) | 8.1 - 9.1 GHz |
| Gain, at +23C (dB) | 40dB min |
| Gain Flatness ± | 1dB, max |
| VSWR: Input / Output | 1.5,max / 1.5,max |
| NOISE TEMP: | 50k, max |
| POUT @ 1 dB Comp (dBm) | 10dBm, min |
| DC Power Requirements | 15V @ 225mA, nominal |
| Operating Temp (C) | +23 C |
| Outline Drawing | 138968-1 |

This Unit can safely handle a maximum input power of 10 dBm, CW.

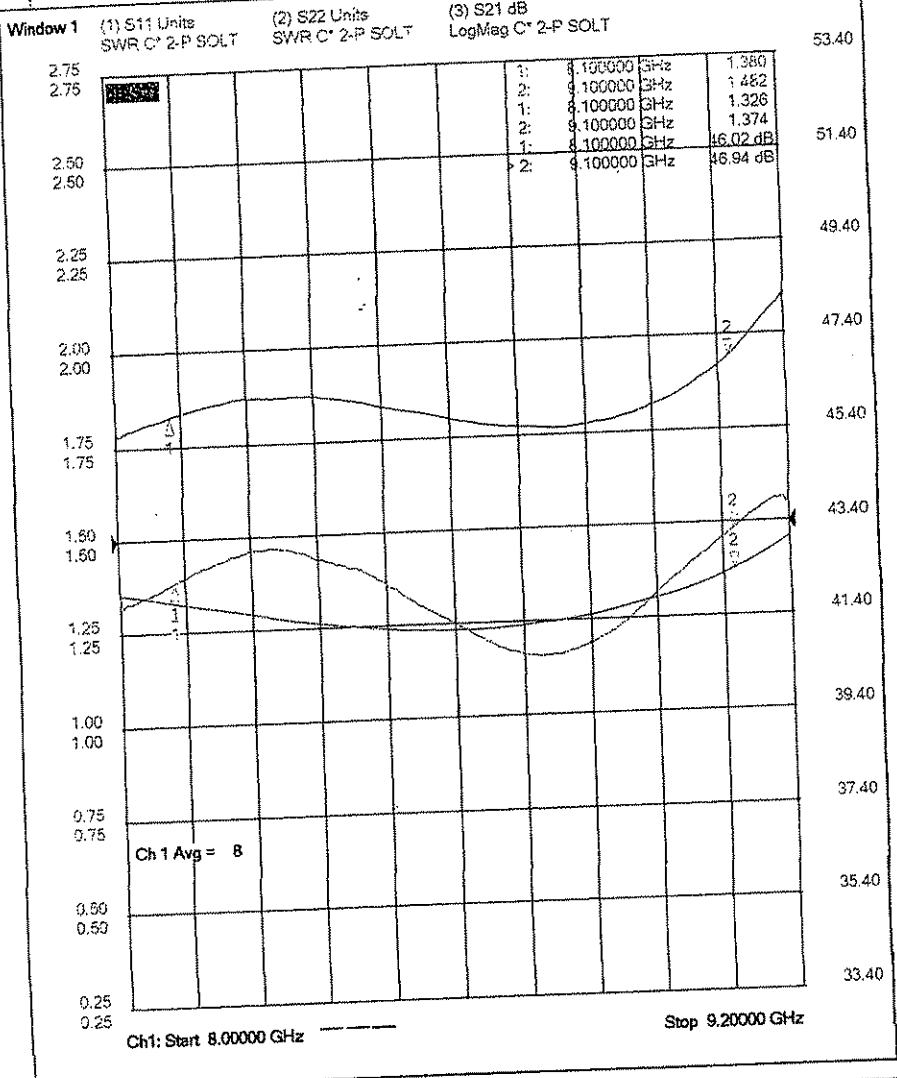
Measured Current 111 mA

| Frequency (GHz) | Noise Temp (K) | Pout @ 1 dB Comp (dBm) |
|-----------------|----------------|------------------------|
| 8.10 | 42 | 15.0 |
| 8.60 | 44 | 14.8 |
| 9.10 | 46 | 15.6 |

| MS3112E10-6P Pin-Out Assignments | |
|----------------------------------|--------|
| A | +15VDC |
| B | GND |
| C | GND |
| D | NC |
| E | NC |
| F | NC |

| | |
|----------------|-----------------|
| Max Input VSWR | Max Output VSWR |
| SEE PLOT | SEE PLOT |

Tested By: W. Rudy
Date: 3-5-09



MITEQ, INC.
100 Davids Drive
Waukesha, WI 53186-2088
TEL: (262) 438-7400
FAX: (262) 438-7430

| | |
|------------------|---------------------|
| Project : | MQ0169479 |
| Int. Transfer : | |
| Customer P / N : | AMFW-5S-08100910-50 |
| Customer P. O. : | 02719100 |
| Model Number : | AMFW-5S-08100910-50 |
| Serial Number : | 1451962 |

| SPECIFICATIONS | |
|------------------------|----------------------|
| Frequency (GHz) | 8.1 - 9.1 GHz |
| Gain, at +23C (dB) | 40dB min |
| Gain Flatness ± | 1dB, max |
| VSWR: Input / Output | 1.5,max / 1.5,max |
| NOISE TEMP: | 50k, max |
| POUT @ 1 dB Comp (dBm) | 10dBm, min |
| DC Power Requirements | 15V @ 225mA, nominal |
| Operating Temp (C) | +23 C |
| Outline Drawing | 138968-1 |

This Unit can safely handle a maximum input power of 10 dBm, CW.

Measured Current 125 mA

| Frequency (GHz) | Noise Temp (K) | Pout @ 1 dB Comp (dBm) |
|-----------------|----------------|------------------------|
| 8.10 | 44 | 14.8 |
| 8.60 | 47 | 15.0 |
| 9.10 | 47 | 15.8 |

| MS3112E10-6P Pin-Out Assignments | |
|----------------------------------|--------|
| A | +15VDC |
| B | GND |
| C | GND |
| D | NC |
| E | NC |
| F | NC |

| | |
|----------------|-----------------|
| Max Input VSWR | Max Output VSWR |
| SEE PLOT | SEE PLOT |

Tested By: W. Rudy
Date: 3-5-09

MITER
 100 Davids Drive
 Hauppauge, NY 11788
 Tel: (631) 436-7400

Serial #
 1451968
 Model #
 AMFW-5S-02200240-30-430G

Project #
 MQ0169479

Customer
 PATRIOT ANTENNA SYSTEMS INC

Customer PO
 02719100

Stock #

Voltage (V)
 15

Current (mA)
 185

Temp (°C)
 23

Tested By
 J.Sepúlveda

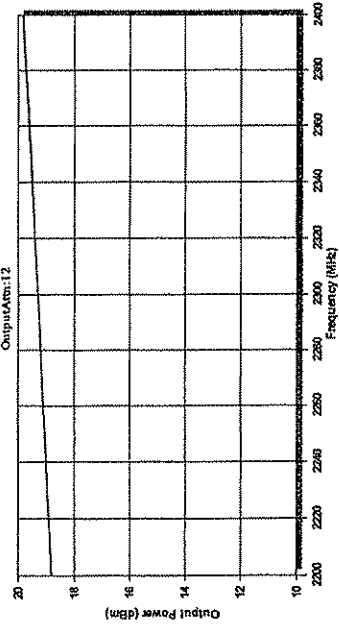
Comments

Printed On: 3/25/2009 1:38:18 PM

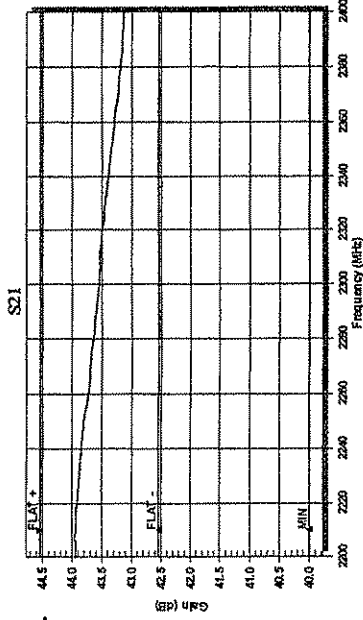
PASS
Final Test



Output Power @ 1dB Compression Point

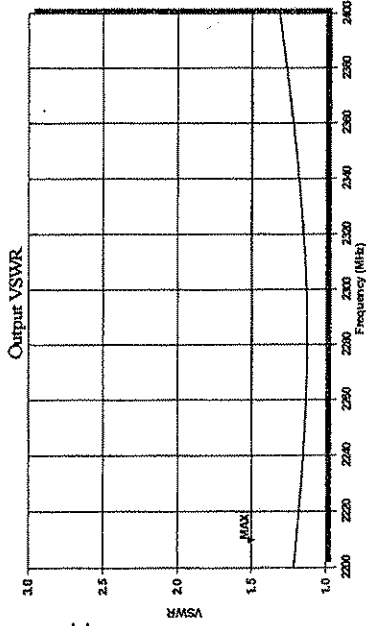


MIN 18.81
 SPEC: 10.00
 ID:1194316 PASS

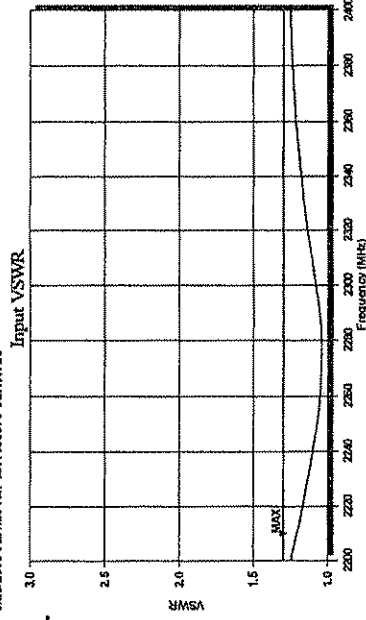


MIN 43.13
 SPEC: 40.00
 FLAT+: 0.41
 SPEC-L: 1.00
 ID:1195379 PASS

Output VSWR

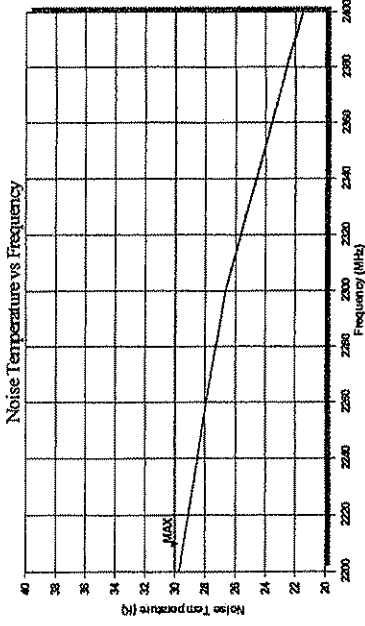


MAX 1.31
 SPEC: 1.50
 ID:1195300 PASS



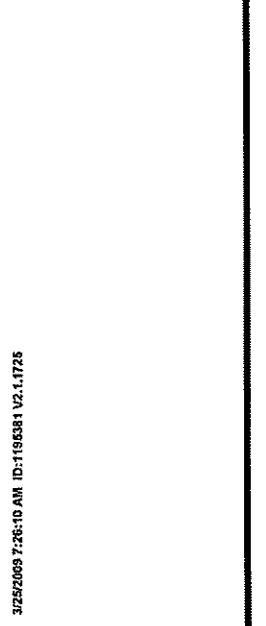
MAX 1.26
 SPEC: 1.30
 ID:1195378 PASS

Noise Temperature vs Frequency



MAX 29.73
 SPEC: 30.00
 ID:1195381 PASS

Noise Temperature vs Frequency



MAX 29.73
 SPEC: 30.00
 ID:1195381 PASS



100 Davids Drive
Hauppauge, NY 11788
Tel: (631) 436-7400

Serial #
1451969

Model #
AMFW-5S-02200240-30-430G

Project #
MQ0169479

Customer
PATRIOT ANTENNA SYSTEMS INC

Customer PO
02719100

Stock #

Voltage (V)
15

Current (mA)
193

Temp (°C)
23

Tested By
J.Sepúlveda

Comments

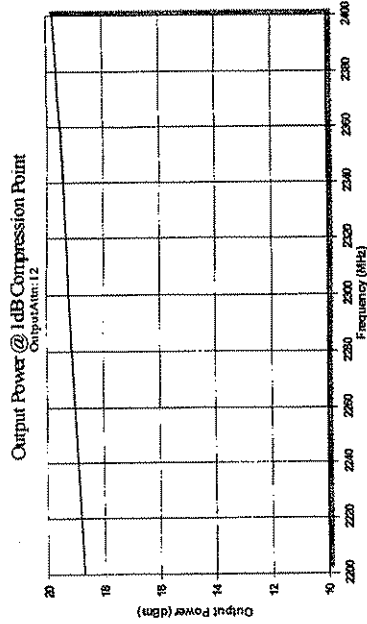
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PASS
Final Test

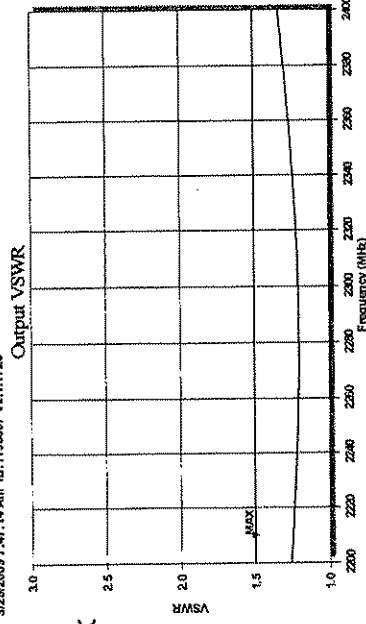


WEEE

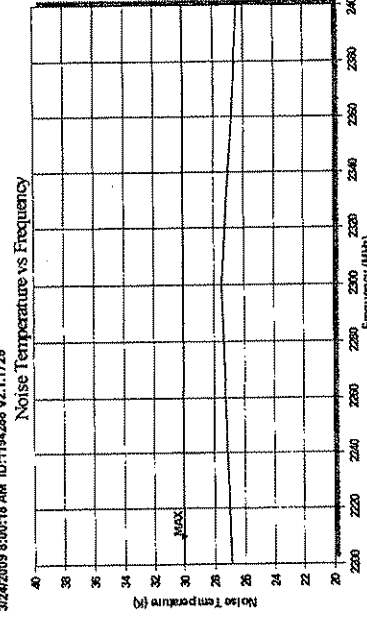
MIN 18.72
SPEC: 10.00
ID:1195397 PASS



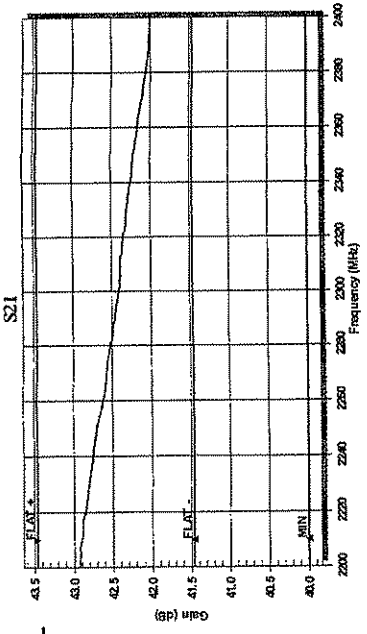
MAX 1.33
SPEC: 1.50
ID:1194288 PASS



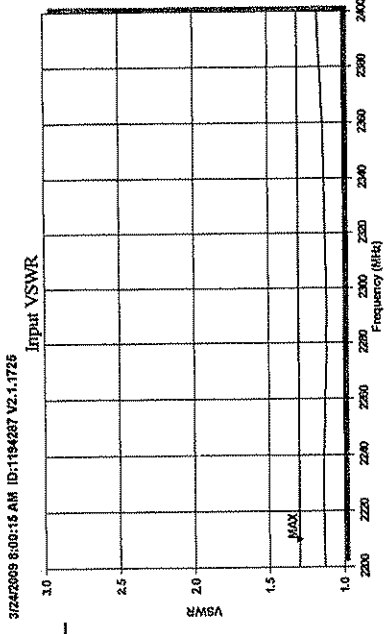
MAX 27.46
SPEC: 30.00
ID:1194279 PASS



MIN 42.00
SPEC: 40.00
FLAT%: 0.47
SPEC%: 1.00
ID:1194287 PASS



MAX 1.16
SPEC: 1.30
ID:1194284 PASS



3/24/2009 8:00:15 AM ID:1194287 V2.1.1725

3/24/2009 7:55:45 AM ID:1194284 V2.1.1725

3/24/2009 8:00:18 AM ID:1194288 V2.1.1725

3/24/2009 7:58:10 AM ID:1194279 V2.1.1725



100 Davids Drive
Hauppauge, NY 11788
Tel: (631) 436-7400

Serial #
1451970

Model #
AMFW-5S-02200240-30-430G

Project #
MQ0169479

Customer
PATRIOT ANTENNA SYSTEMS INC

Customer PO
02719100

Stock #

Voltage (V)
15

Current (mA)
194

Temp (°C)
23

Tested By
J.Sepulveda

Comments

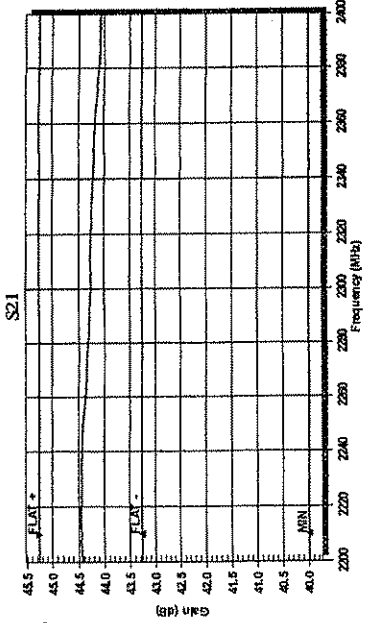
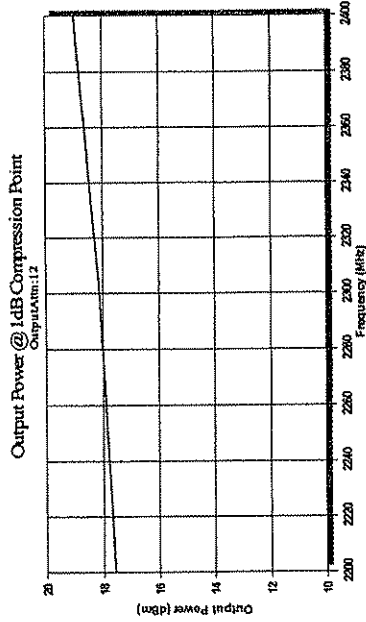
Printed On: 3/25/2009 1:36:54 PM

PASS
Final Test

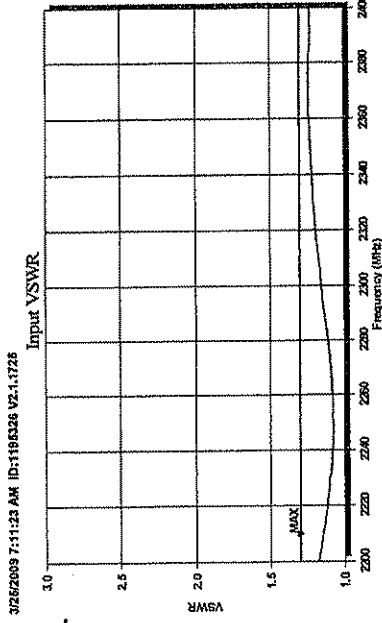
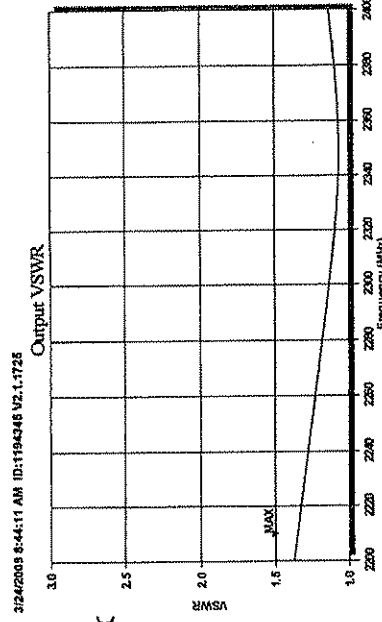


WEEE

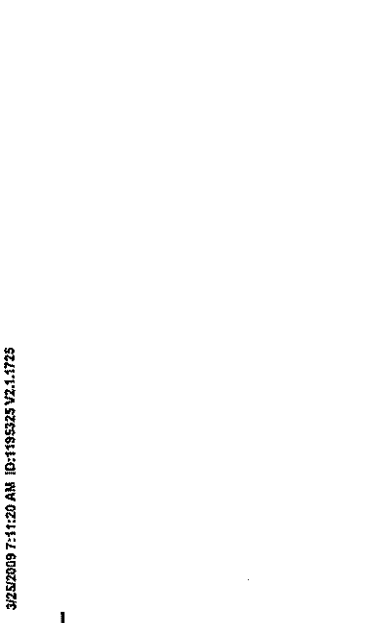
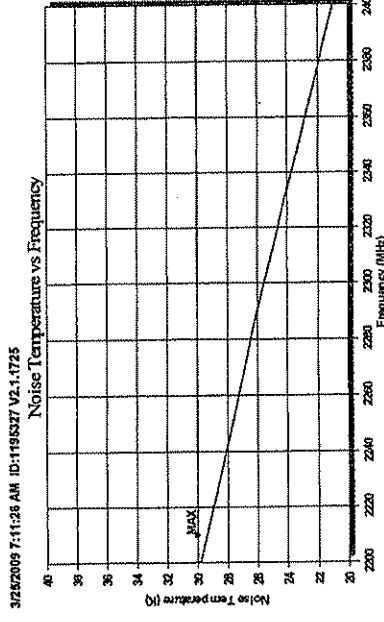
MIN 17.69
SPEC: 10.00
ID:1194346 PASS



MAX 1.38
SPEC: 1.50
ID:1195327 PASS



MAX 23.79
SPEC: 30.00
ID:1195367 PASS



3/25/2009 7:15:04 AM ID:1195367 V2.1.1725

3/24/2009 9:44:11 AM ID:1194346 V2.1.1725

3/25/2009 7:11:23 AM ID:1195326 V2.1.1725

3/25/2009 7:11:20 AM ID:1195325 V2.1.1725



100 Davids Drive
Hauppauge, NY 11788
Tel: (631) 436-7400

Serial #
1451971

Model #
AMFW-5S-02200240-30-430G

Project #
MQ0169479

Customer
PATRIOT ANTENNA SYSTEMS INC

Customer PO
02719100

Stock #

Voltage (V)
15

Current (mA)
182

Temp (°C)
23

Tested By
J.Sepúlveda

Comments

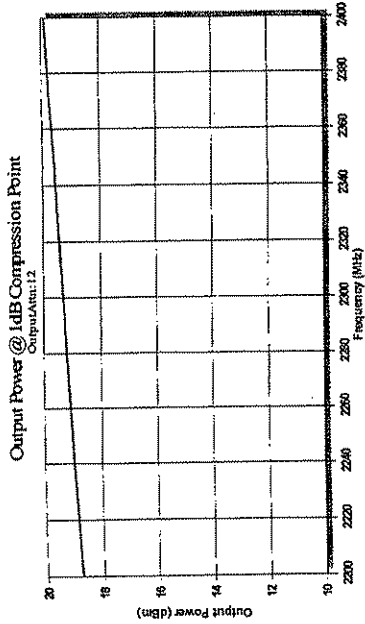
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PASS
Final Test

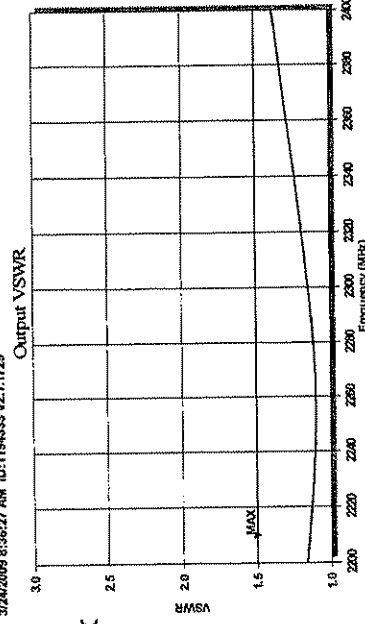


WEEE

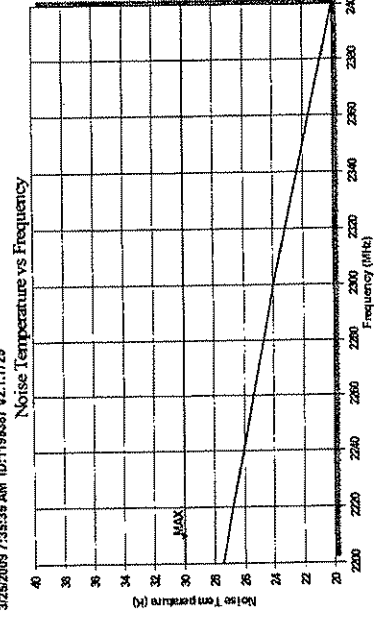
MIN 18.76
SPEC: 10.00
ID:1194333 PASS



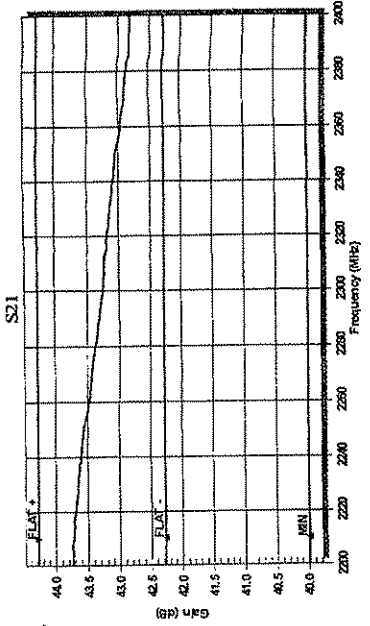
MAX 1.38
SPEC: 1.50
ID:1195387 PASS



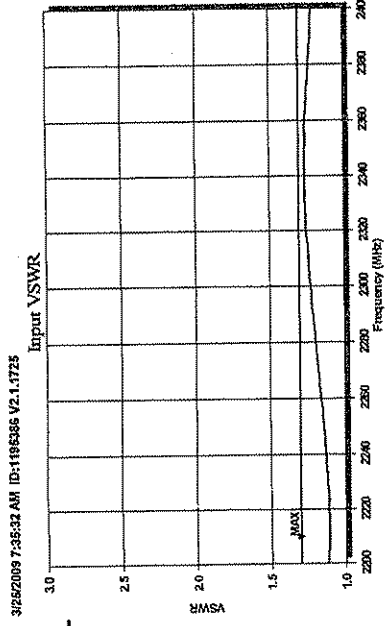
MAX 27.43
SPEC: 30.00
ID:1195389 PASS



MIN 42.82
SPEC: 40.00
FLAT%: 0.46
SPEC%: 1.00
ID:1195385 PASS



MAX 1.26
SPEC: 1.30
ID:1195385 PASS



3/25/2009 7:35:30 AM ID:1195385 V2.1.1725

3/25/2009 7:35:32 AM ID:1195386 V2.1.1725

3/25/2009 7:35:35 AM ID:1195387 V2.1.1725

3/24/2009 8:36:27 AM ID:1194333 V2.1.1725

3/25/2009 7:35:44 AM ID:1195389 V2.1.1725