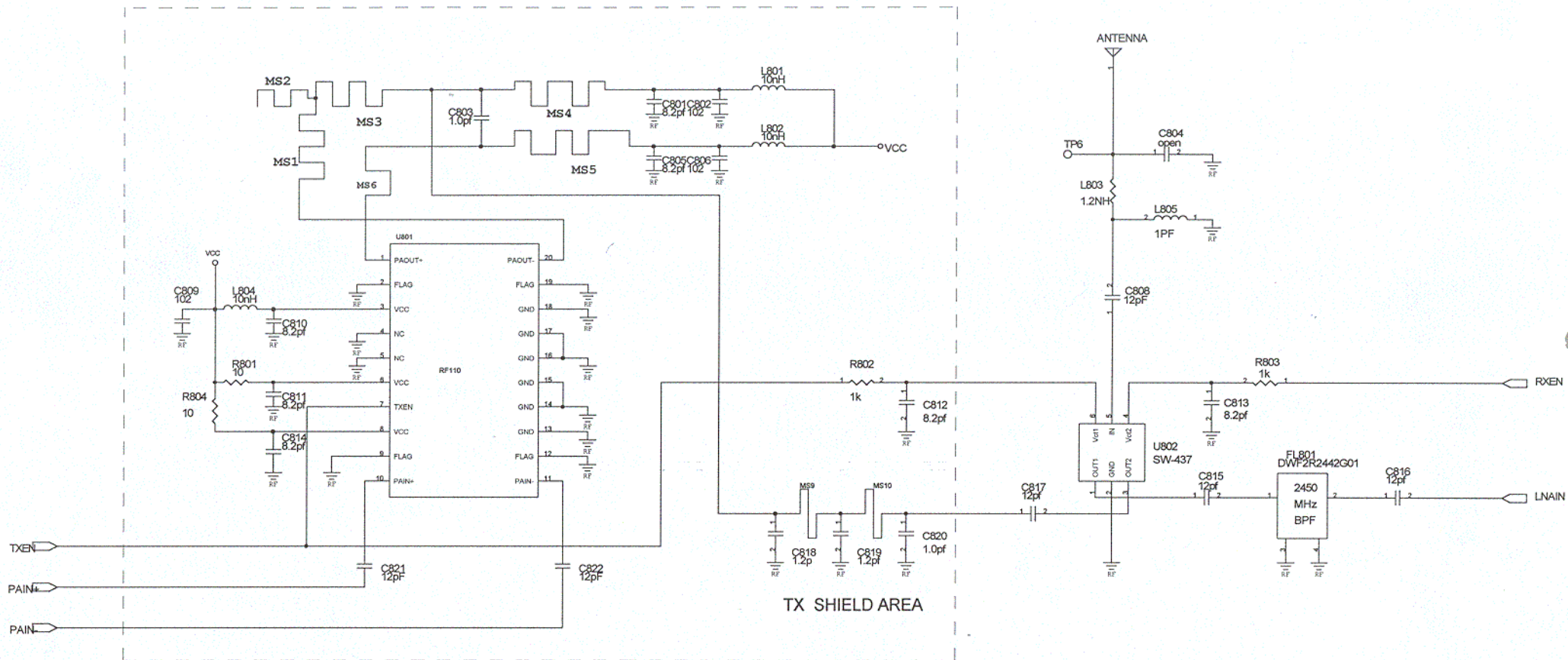




| MicroStrip | W(mils)       | L(mils)      | Z0 / E(deg)     |
|------------|---------------|--------------|-----------------|
| MS1        | 25.5 mil wide | 219 mil long | 84 ohm 29.0 deg |
| MS2        | 30.0 mil wide | 389 mil long | 79 ohm 52.0 deg |
| MS3        | 17.5 mil wide | 401 mil long | 97 ohm 52.6 deg |
| MS4        | 25.5 mil wide | 303 mil long | 84 ohm 40.0 deg |
| MS5        | 25.5 mil wide | 660 mil long | 84 ohm 90.0 deg |
| MS6        | 25.5 mil wide | 30 mil long  | 84 ohm 4.0 deg  |

| MicroStrip | Z0   | E(deg)   | W(mils)    | L(mils)   |
|------------|------|----------|------------|-----------|
| MS9        | 96 R | 22.3 deg | W=18.0 mil | L=170 mil |
| MS10       | 96 R | 22.3 deg | W=18.0 mil | L=170 mil |

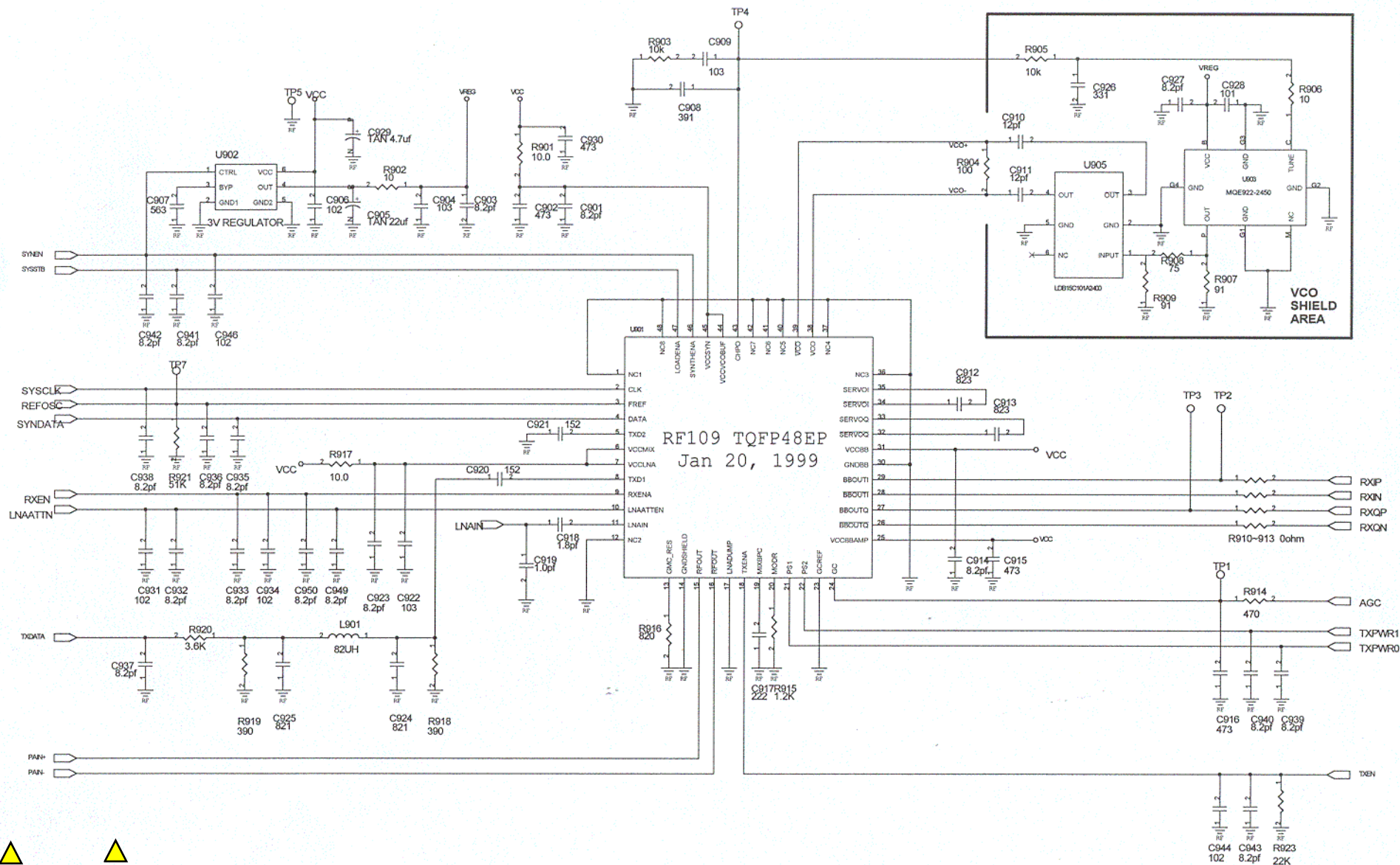
SONUS TELECOM, INC.  
FCC ID : OU3IBM3920  
JOB # : 244AK1-1

EXHIBIT # : 4B

|          |               |                                  |        |      |    |
|----------|---------------|----------------------------------|--------|------|----|
| DRN DATE | 2001.02.28    |                                  |        |      |    |
| DRND BY  | J. H KIM      |                                  |        |      |    |
| CHCK BY  | J. H KIM      | MODEL<br>IBM-3920 Base Power Amp |        |      |    |
| APPD BY  | MARTIN. H KIM |                                  |        |      |    |
|          |               | DRN NO.                          |        | REV  | 0  |
|          |               | SHEET                            | 1 OF 4 | SIZE | A4 |







SONUS TELECOM, INC.  
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JOB # : 244AK1-1

EXHIBIT # : 4E

|          |                |                                                                                                                     |        |      |    |
|----------|----------------|---------------------------------------------------------------------------------------------------------------------|--------|------|----|
| DRN DATE | 2001.02.28     |  International Science Venture |        |      |    |
| DRND BY  | J. H. KIM      |                                                                                                                     |        |      |    |
| CHK BY   | J. H. KIM      | MODEL                                                                                                               |        |      |    |
| APPD BY  | MARTIN. H. KIM |                                                                                                                     |        |      |    |
|          |                | IBM-3920 Hand Tranceiver                                                                                            |        |      |    |
|          |                | DRN NO.                                                                                                             |        | REV  | 0  |
|          |                | SHEET                                                                                                               | 4 OF 4 | SIZE | A4 |