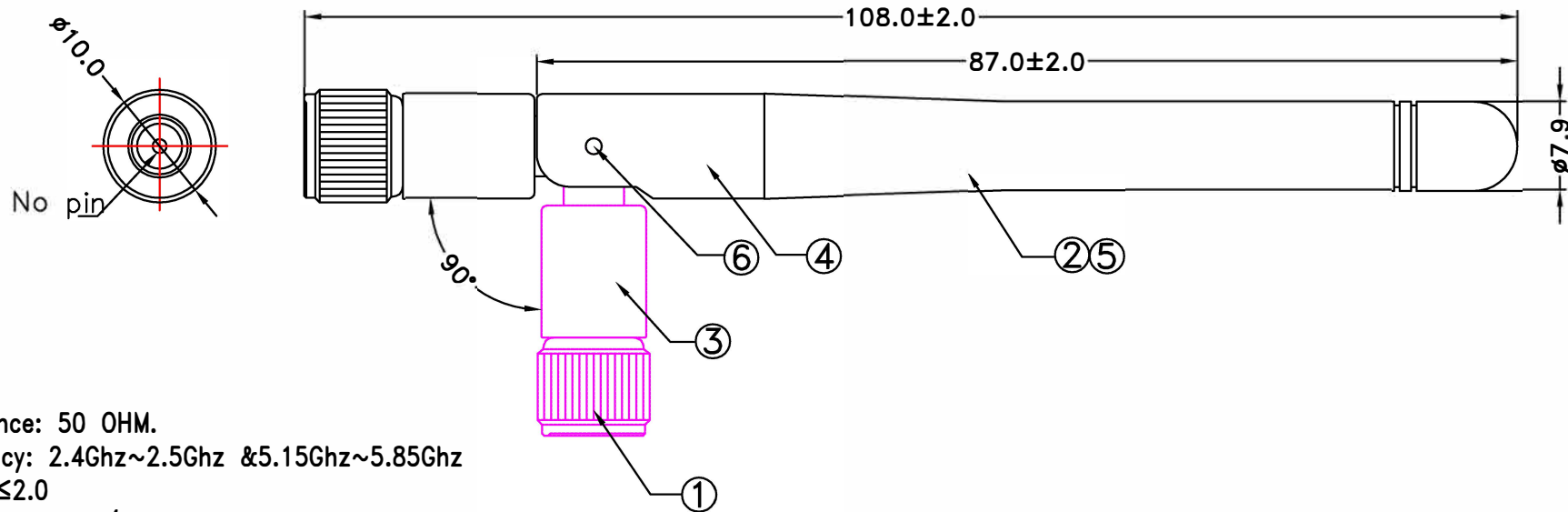


APPROVE:

| REV | DATE    | ECN NO | DESCRIPTION | Name |
|-----|---------|--------|-------------|------|
| A   | 2210.26 |        | NEW RELEASE |      |



NOTES:

1. Electrical:
- 1.1 Impedance: 50 OHM.
  - 1.2 Frequency: 2.4Ghz~2.5Ghz & 5.15Ghz~5.85Ghz
  - 1.3 VSWR: ≤2.0
  - 1.4 Peck Gain: 2dBi/3dBi
  - 1.5 Polarization: Linear
  - 1.6 Radiation Patten: Omni-directional
2. Enviromental:
- 2.1 Storage Temperature Range: -40 TO +85°C
  - 2.2 Operating Temperature Range: -40 TO +85°C
3. All material must meet RoHS Request.

|                                               |             |                  |                              |      |        |           |                     |       |  |
|-----------------------------------------------|-------------|------------------|------------------------------|------|--------|-----------|---------------------|-------|--|
| 6                                             | RIVET       |                  | POM;COLOR:BLACK              | 2    |        | CUSTOMER: |                     |       |  |
| 5                                             | COVER       |                  | TPEE;COLOR:BLACK             | 1    |        |           |                     |       |  |
| 4                                             | MIDDLE BASE |                  | PC;COLOR:BLACK               | 1    |        |           |                     |       |  |
| 3                                             | UP BASE     |                  | PBT;COLOR:BLACK              | 1    |        | PART NO:  | 2.4G&5.8GHZ ANTENNA |       |  |
| 2                                             | CABLE       | 1RG178BR011CA-36 | RG178 ,COLOR:BROWN Ø1.80     | 1    |        | ORD NO:   | C-400187P           |       |  |
| 1                                             | CONNECTOR   | 50SMAB09HBT2G1N  | SMA R/P PLUG WITH BLACK COAT | 1    |        | REF NO:   |                     |       |  |
| ITEM                                          | NAME        | PART NO.         | SPEC                         | Q'TY | VENDOR | APPROVE   | CHECKED             | DRAWN |  |
| TITLE: 2.4Ghz&5.8Ghz Dual band dipole Antenna |             |                  |                              |      |        |           |                     | Sean  |  |
| DWG NO: C-400187P                             |             | SHEET 1 OF 1     | UNIT                         | m/m  | SCALE  |           |                     |       |  |

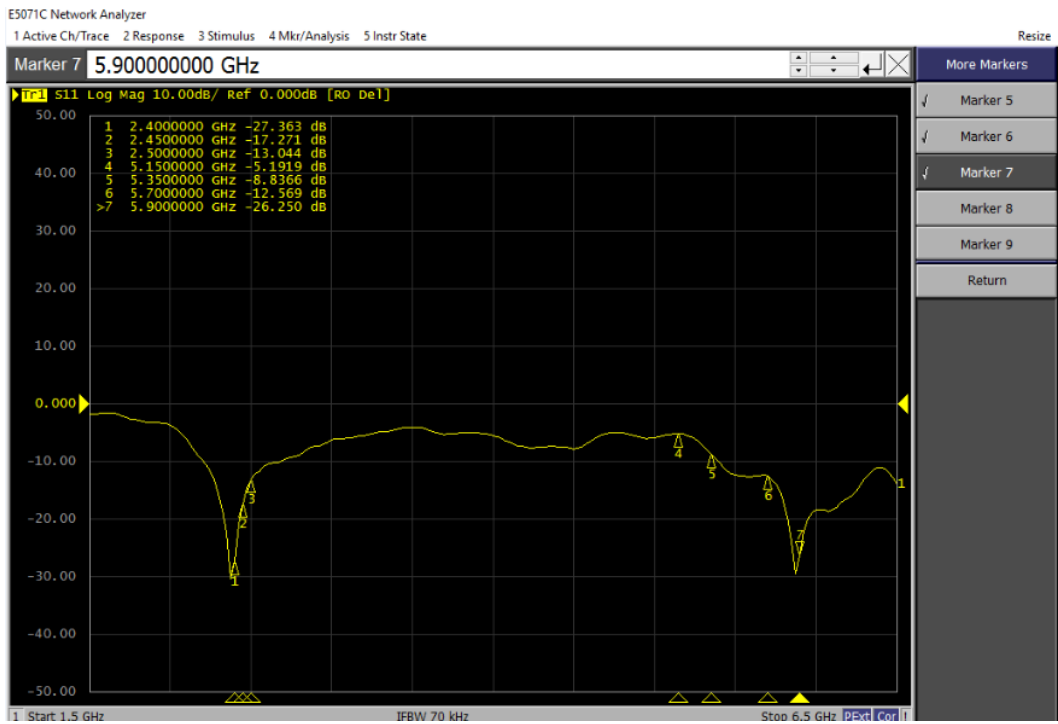
Dual-band rubber stick antenna test report

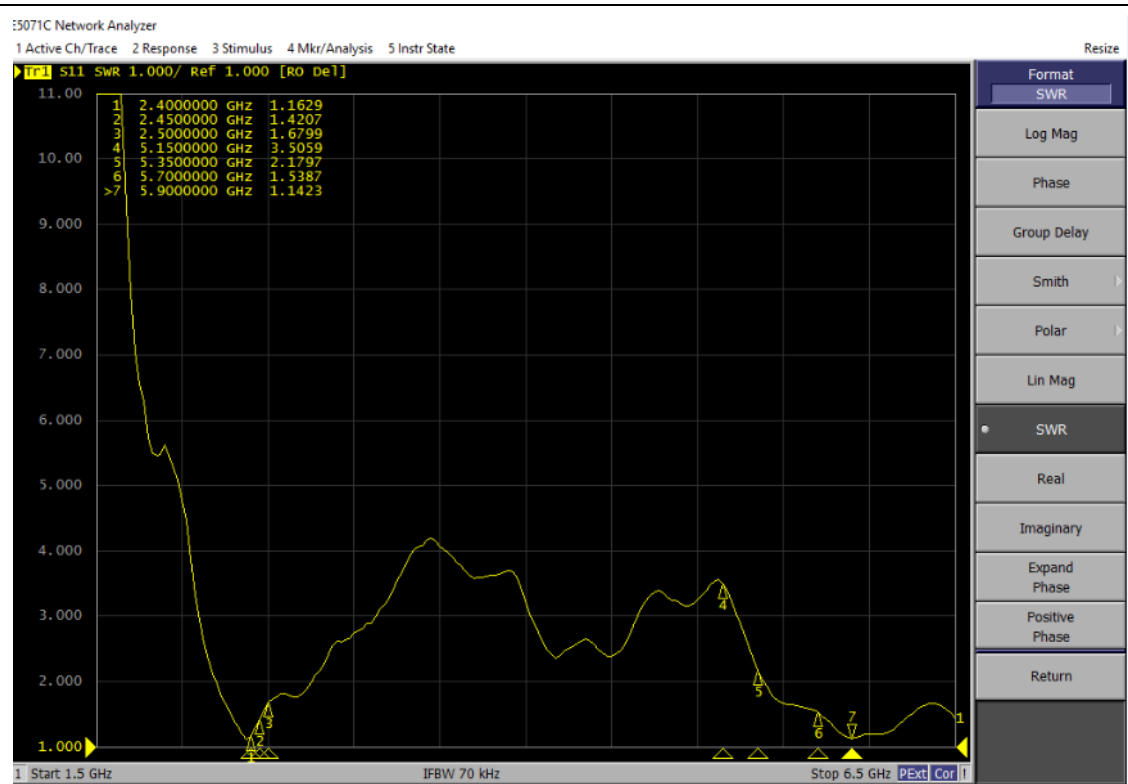
Glue stick antenna picture:



Small rubber stick antenna S11 data:

| Frequency (MHz) | 2400   | 2450   | 2500   | 5150  | 5350  | 5700   | 5900   |
|-----------------|--------|--------|--------|-------|-------|--------|--------|
| ReturnLoss      | -27.36 | -17.27 | -13.04 | -5.19 | -8.83 | -12.56 | -26.25 |
| VSWR            | 1.16   | 1.42   | 1.68   | 3.50  | 2.17  | 1.53   | 1.14   |

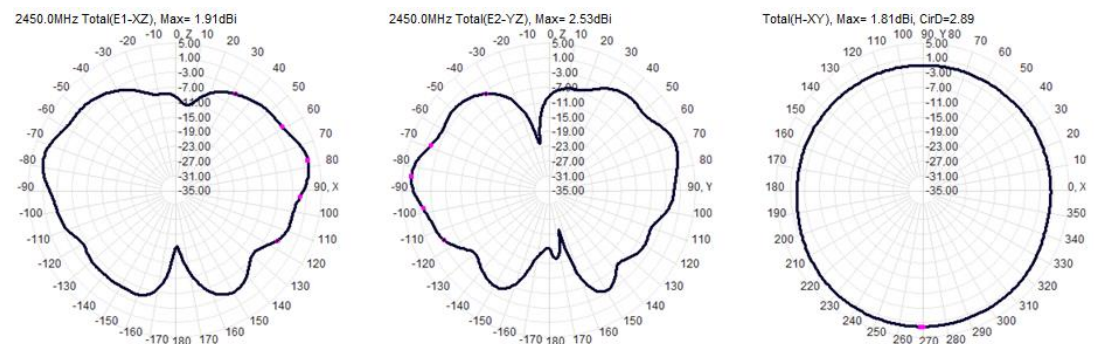
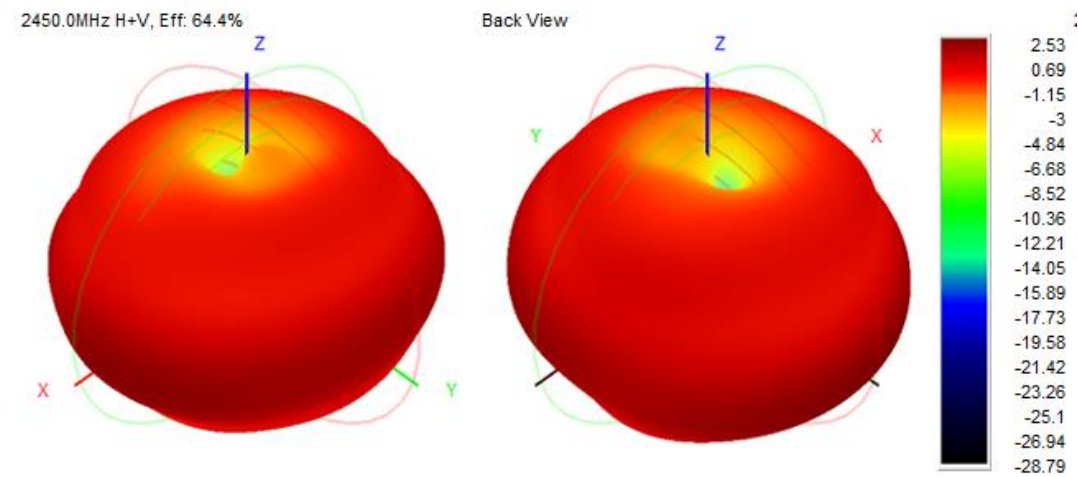




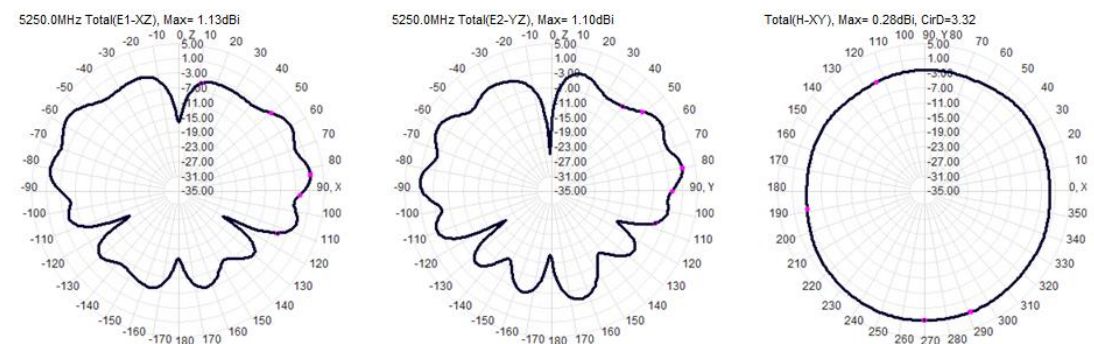
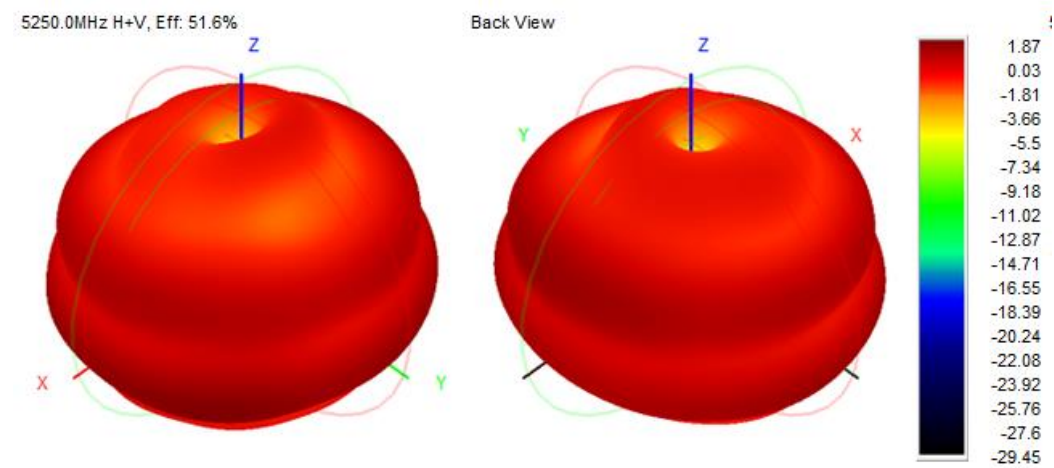
Small glue stick antenna gain efficiency and radiation pattern:

| Fq (MHz)    | 2400 | 2410 | 2420 | 2430 | 2440 | 2450 | 2460 | 2470 | 2480 | 2490 | 2500 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| Gain (dBi)  | 1.40 | 1.78 | 2.02 | 2.15 | 2.40 | 2.53 | 2.48 | 2.29 | 1.95 | 1.72 | 1.75 |
| Efficie (%) | 57.2 | 59.1 | 59.7 | 60.6 | 62.1 | 64.4 | 66.2 | 67.1 | 65.6 | 64.2 | 63.2 |
| Fq (MHz)    | 5150 | 5200 | 5250 | 5300 | 5350 | 5500 | 5700 | 5750 | 5800 | 5850 |      |
| Gain (dBi)  | 1.07 | 1.83 | 1.87 | 1.28 | 2.11 | 2.48 | 2.93 | 3.16 | 2.67 | 2.27 |      |
| Efficie (%) | 50.2 | 50.6 | 51.5 | 50.8 | 51.4 | 52.4 | 57.3 | 58.2 | 54.1 | 52.7 |      |

## 2450MHz radiation pattern:



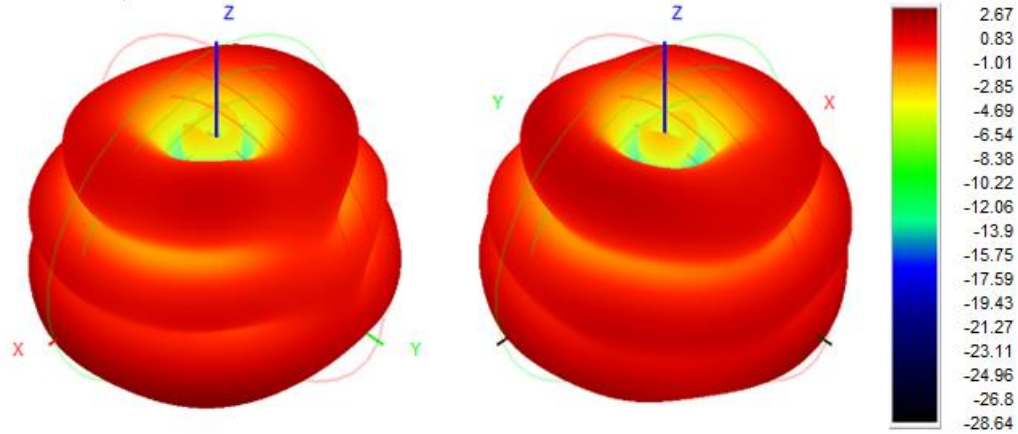
## 5250MHz radiation pattern:



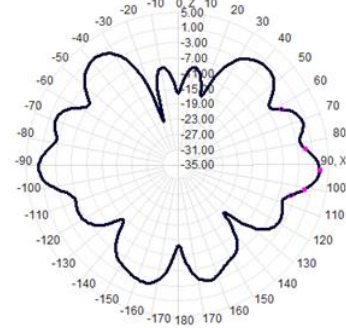
# 5800MHz radiation pattern:

5800.0MHz H+V, Eff: 54.1%

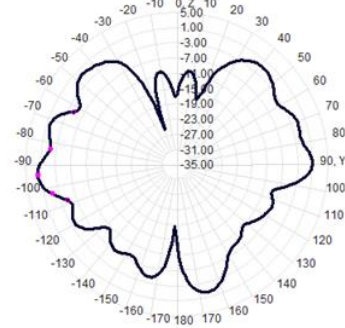
Back View



5800.0MHz Total(E1-XZ), Max= 2.36dBi



5800.0MHz Total(E2-YZ), Max= 1.76dBi



Total(H-XY), Max= 2.66dBi, CirD=2.28

