



# Antenna Part Specification

|                    |            |
|--------------------|------------|
| Project name:      | Q910       |
| Material category: | BT antenna |
| Version:           | V4.0       |
| Date:              | 2022.06.16 |



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| Change record            |                   |                 |         |
|--------------------------|-------------------|-----------------|---------|
| Compile /<br>change date | Reason for change | Changed content | Version |
|                          |                   |                 |         |
|                          |                   |                 |         |
|                          |                   |                 |         |
|                          |                   |                 |         |

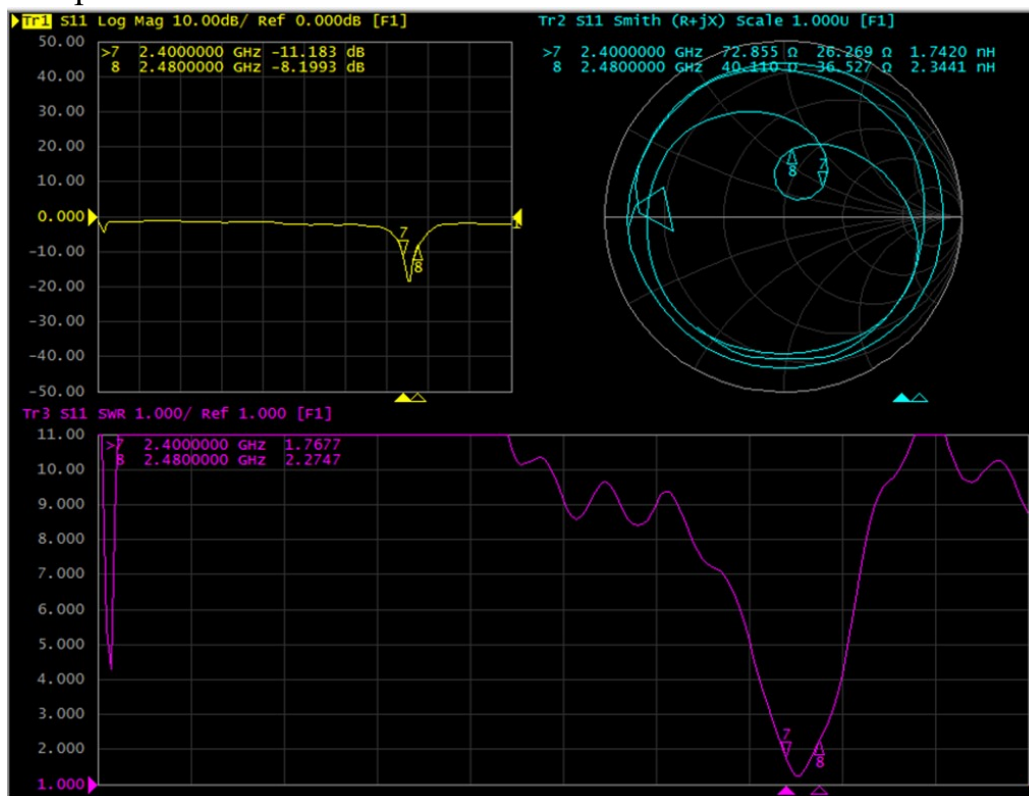


I: The report of passive data



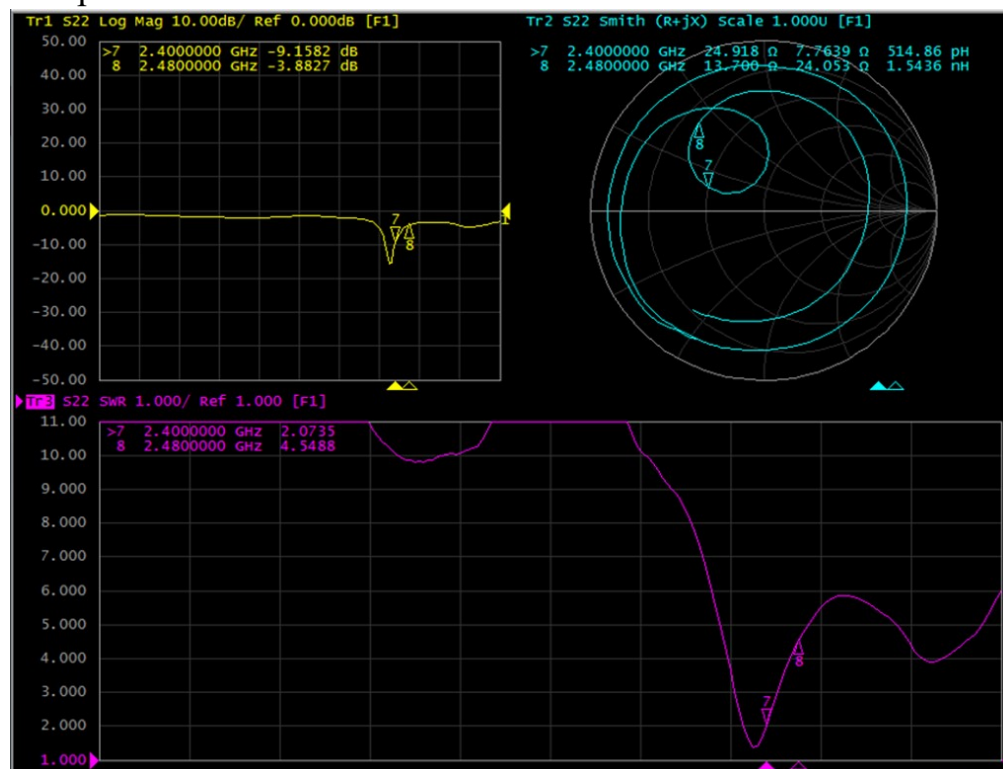
Angilent E5071C

S11 parameter (AB1565) :





S11 parameter (AB1568) :



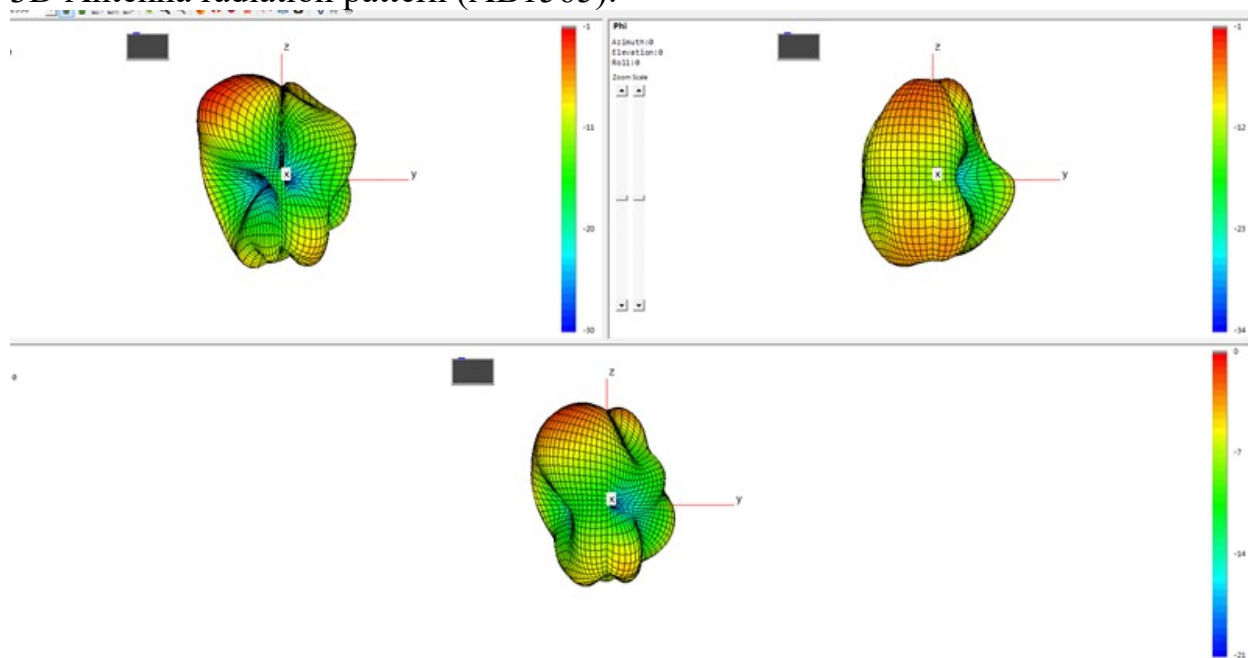
Efficiency:

| AB1565          |            |                  |            |
|-----------------|------------|------------------|------------|
| Frequency (MHz) | Gain (dBi) | Efficiency (dB ) | Efficiency |
| 2400            | 0.8        | -4.06            | 39.3       |
| 2410            | 1.0        | -4.03            | 39.6       |
| 2420            | 1.2        | -3.98            | 40.0       |
| 2430            | 1.4        | -3.68            | 42.9       |
| 2440            | 1.3        | -3.64            | 43.2       |
| 2450            | 1.1        | -3.75            | 42.1       |
| 2460            | 1.2        | -3.78            | 41.9       |
| 2470            | 1.0        | -4.04            | 39.5       |
| 2480            | 1.2        | -3.97            | 40.1       |
| Average value   | 1.14       | -3.88            | 40.94      |

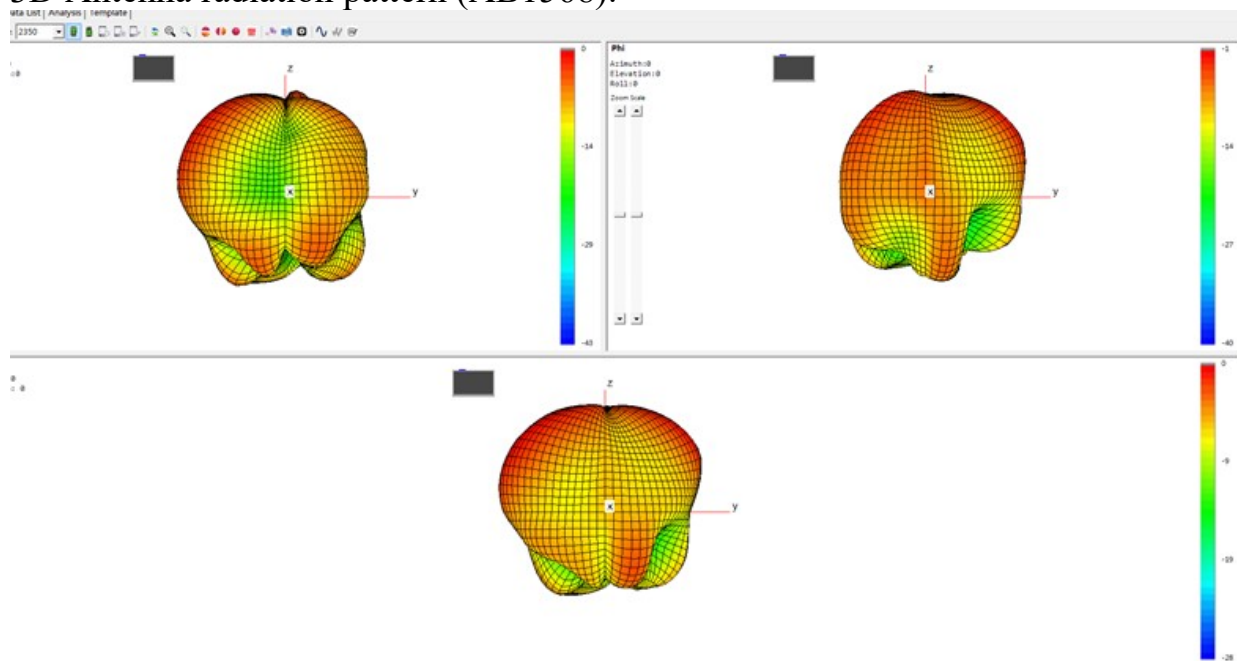
| AB1568          |            |                  |            |
|-----------------|------------|------------------|------------|
| Frequency (MHz) | Gain (dBi) | Efficiency (dB ) | Efficiency |
| 2400            | -0.1       | -4.05            | 39.3       |
| 2410            | 1.0        | -4.18            | 38.2       |
| 2420            | 1.6        | -4.01            | 39.7       |
| 2430            | 2.0        | -4.18            | 38.2       |
| 2440            | 1.9        | -4.54            | 36.2       |
| 2450            | 1.4        | -4.95            | 35.0       |
| 2460            | 1.1        | -5.03            | 34.4       |
| 2470            | 1.0        | -4.90            | 32.4       |
| 2480            | 0.7        | -5.00            | 31.6       |
| Average value   | 1.17       | -4.54            | 36.11      |



### 3D Antenna radiation pattern (AB1565):



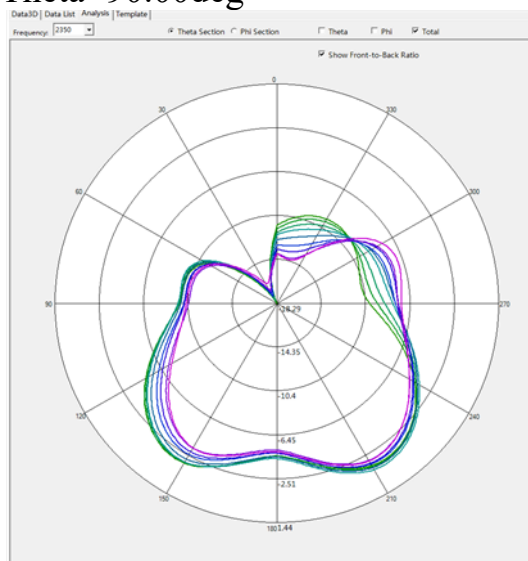
### 3D Antenna radiation pattern (AB1568):



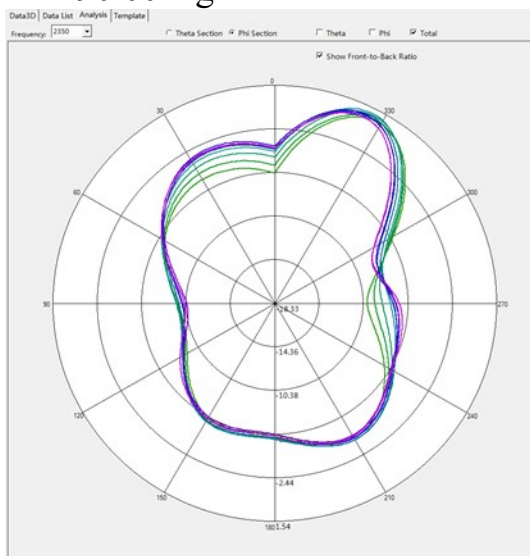


Antenna radiation pattern (AB1565):

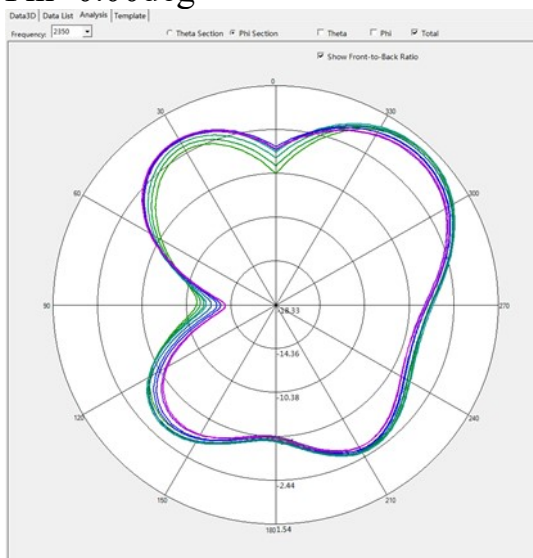
Theta=90.00deg



Phi=90.00deg



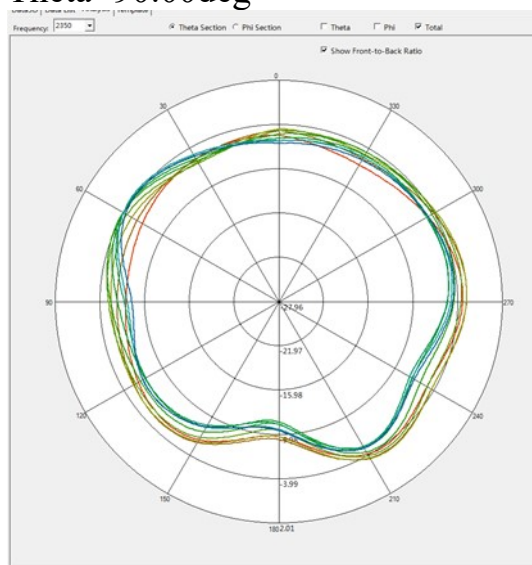
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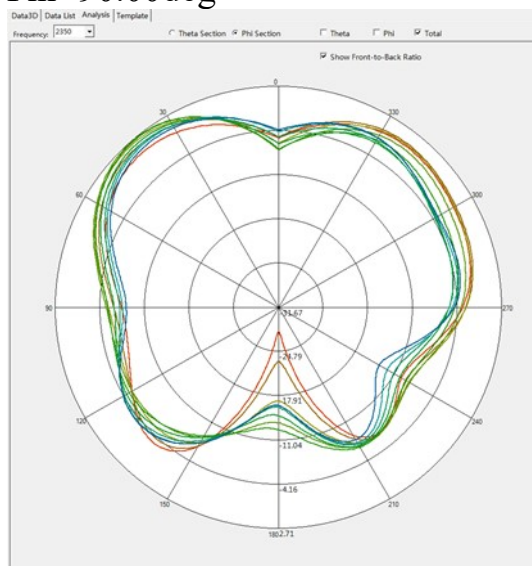


Antenna radiation pattern (AB1568):

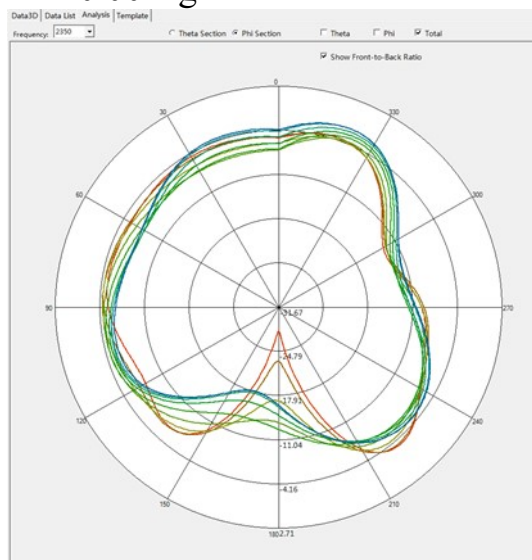
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg



Antenna size refer to the Internal photo