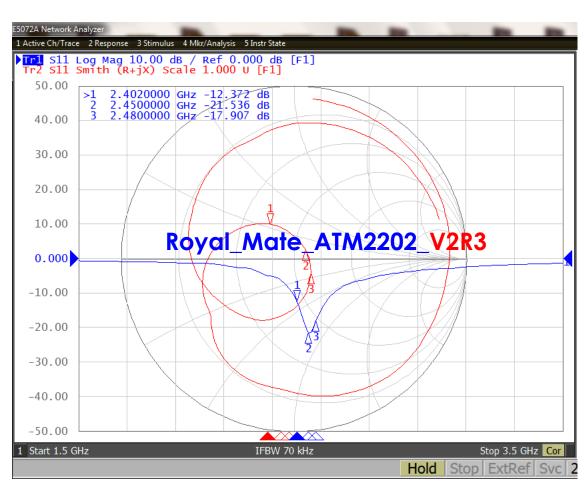
Measured Return Loss and Antenna Efficiency



Antenna Performance of the Royal_Mate_ATM2202_V2R3 (DVT).

Return Loss



Measured by using E5072A Network Analyzer.

Antenna Efficiency & Peak Gain

Frequency	Efficiency	Gain
(MHz)	(%)	(dBi)
2400	63.11	0.71
2410	64.88	0.90
2420	65.08	0.96
2430	65.45	0.94
2440	66.32	1.18
2450	66.62	1.15
2460	66.69	1.10
2470	63.93	1.03
2480	60.42	0.84

Bluetooth® technology uses the 2.4 GHz ISM spectrum band (2400 to 2483.5 MHz)

Performance Testing Items on OTA Testing system

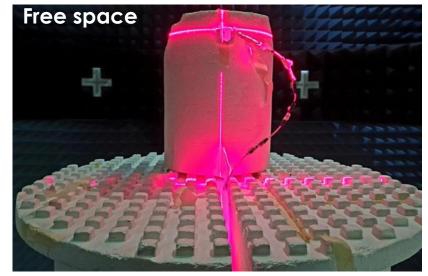
JABIL GREEN POINT

Passive and Active Performance Test on Devices

- OTA Testing system :
 - ✓ ETS-LINDGREN AMS-8947-195.
- Test condition :
 - ✓ Measurement in free space.
- Passive Antenna Performance Measurement:
 - √ 3D radiation pattern
 - ✓ Efficiency
 - ✓ Peak gain
- Active Antenna Performance Measurement :
 - ✓ Bluetooth Low Energy (BLE) Total radiated power (TRP)
- Bluetooth Trackers Devices for test listed below :
 - √ Tile's Royal_Mate_ATM2202_V2R3
- Info Bluetooth of Trackers Devices :
 - ✓ Antenna type: integral
 - ✓ Antenna size: 18.5mmX7mmX10.5mm







Measured 3-D Radiation Patterns at 2450MHz



"Royal_Mate_ATM2202_V2R3" Antenna in free space.

