

Results are measured at anechoic chamber in R&D laboratory.

ELECTRICAL SPECIFICATION

Frequency Range

2400 MHz – 2482 MHz

Antenna Efficiency

-1.96 dB to -1.33 dB

Peak Gain

2.41 dBi @ 2432 MHz

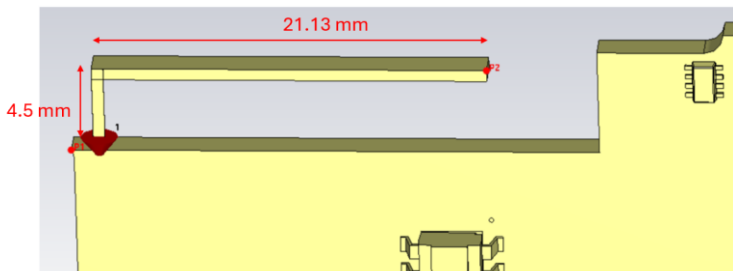
Feed Impedance

50 Ω

MANUFACTURER:

Ruuvi Innovations Ltd
Hämeenkatu 10 B132
11100 Riihimäki,
Finland

Ruuvi Innovations Ltd Ruuvi Air Bluetooth Antenna



Integrated PCB Antenna (monopole ILA) covering 2.4 GHz ISM frequencies. This datasheet covers 2.4 GHz ISM band.

Antenna dimensions as shown above.

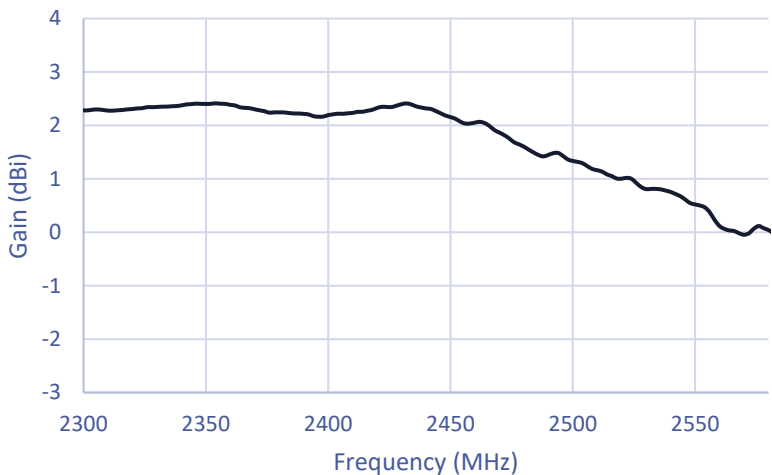
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Ruuvi Air Bluetooth Antenna

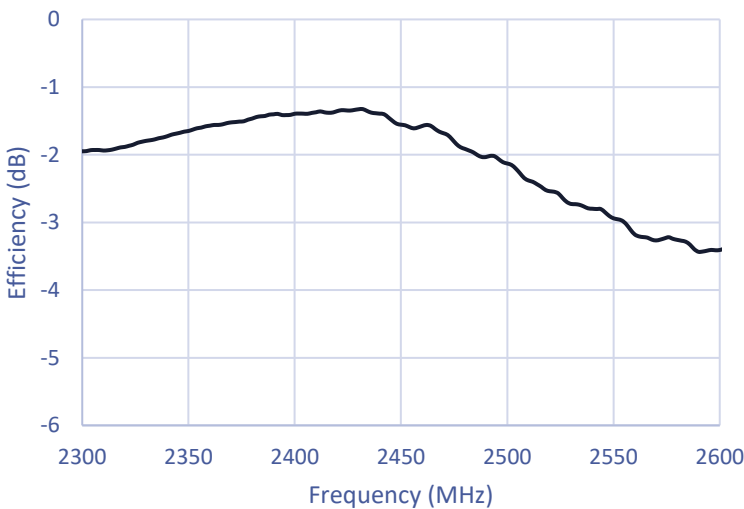


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Realized Antenna Gain



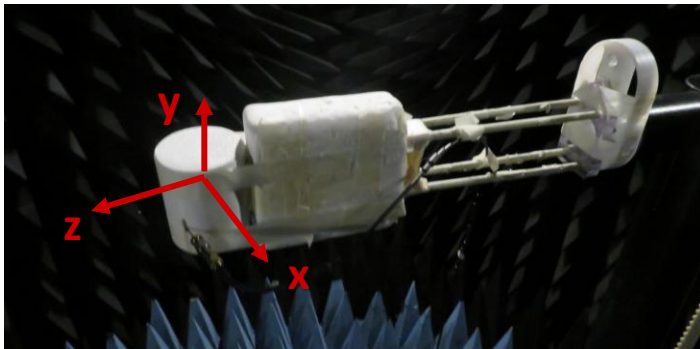
Total Antenna Efficiency



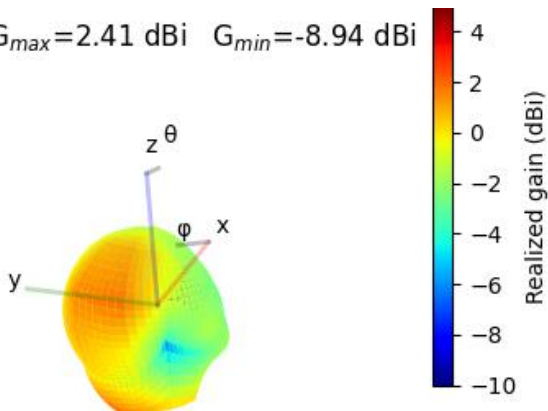
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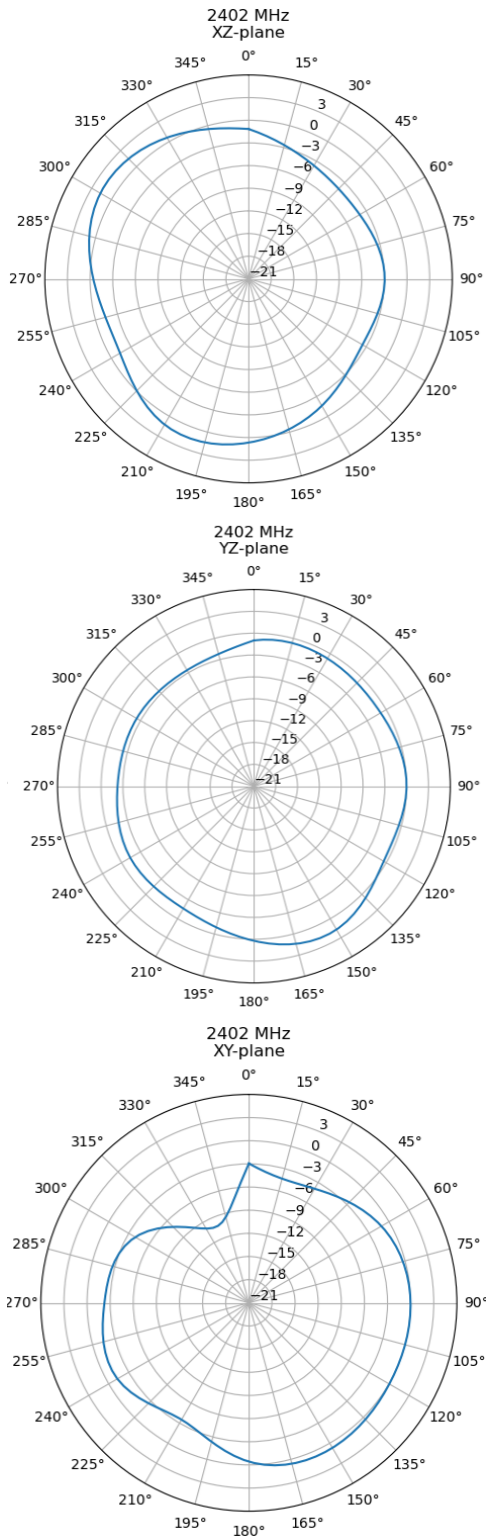


2.43 GHz $G_{max}=2.41$ dBi $G_{min}=-8.94$ dBi



Radiation pattern

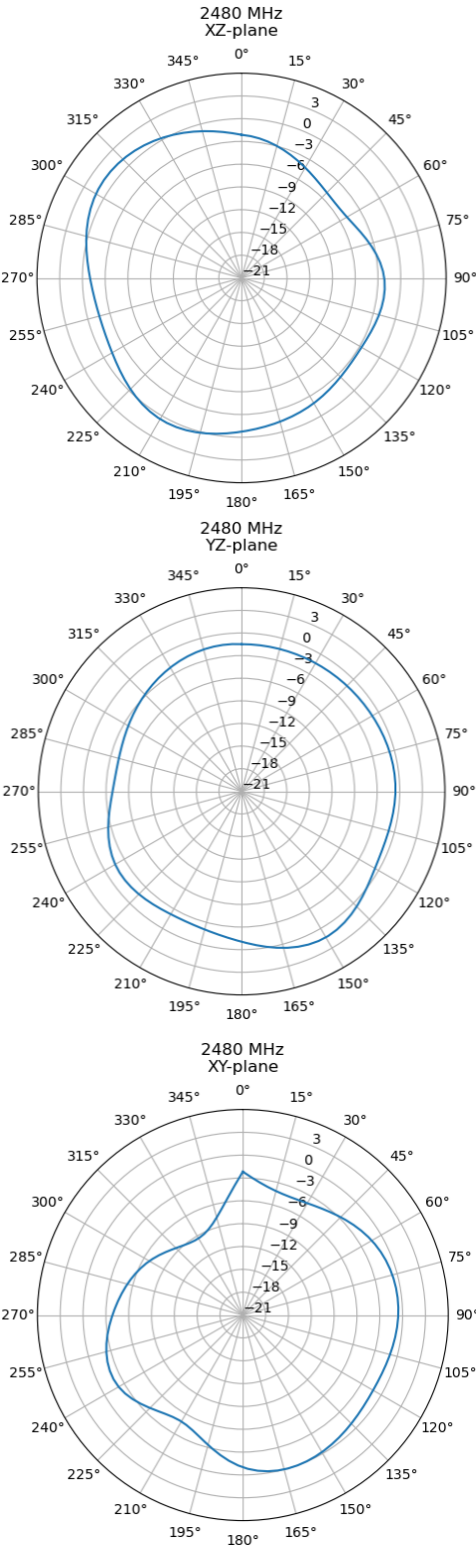
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Radiation pattern



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Max gain



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Frequency (MHz)	Max. gain (dBi)
2400	2.19287
2402	2.20752
2404	2.2196
2406	2.21761
2408	2.22725
2410	2.23427
2412	2.25451
2414	2.25551
2416	2.27472
2418	2.29179
2420	2.32701
2422	2.34869
2424	2.34547
2426	2.34401
2428	2.37046
2430	2.39736
2432	2.41173
2434	2.39306
2436	2.35679
2438	2.33615
2440	2.31806
2442	2.30847
2444	2.26991
2446	2.22719
2448	2.18518
2450	2.15602
2452	2.12568
2454	2.07166
2456	2.03539
2458	2.03622
2460	2.05236
2462	2.06768
2464	2.04394
2466	1.98776
2468	1.91313
2470	1.86623
2472	1.8179
2474	1.75756
2476	1.68526
2478	1.64645
2480	1.60288
2482	1.54676