

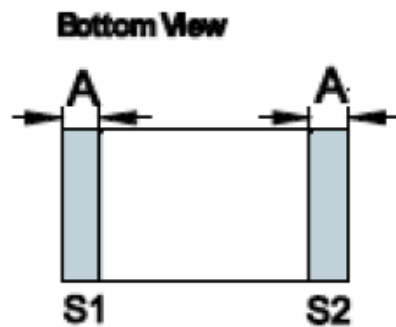
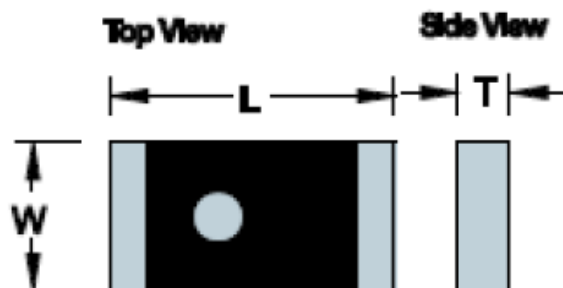
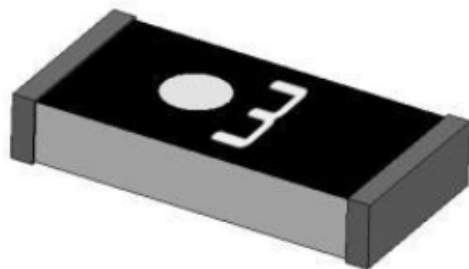


YAGEO 2.4GHz Chip Antenna Specification

PN : ANT3216A063R2400A

Wireless Components
LTCC R&D
2025/04/30

MECHANICAL DRAWING



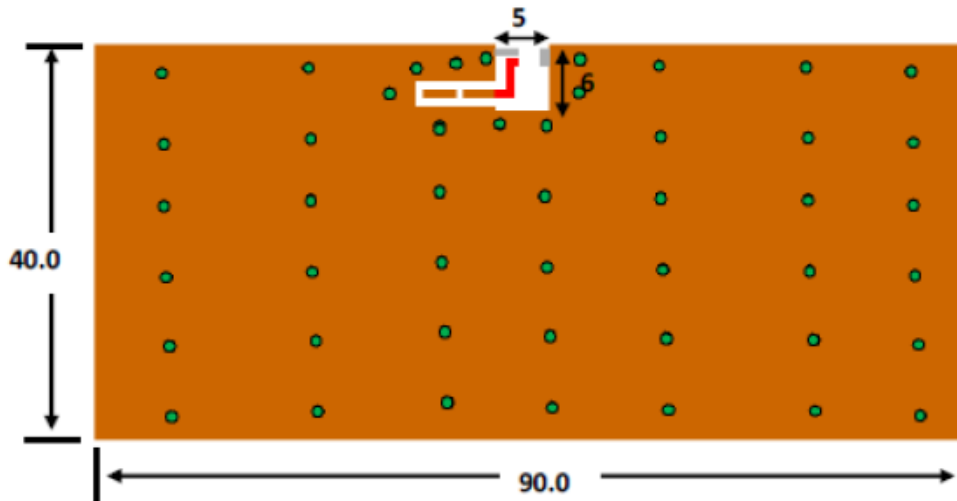
	Dimension
L (mm)	3.05 ± 0.10
W (mm)	1.55 ± 0.10
T (mm)	0.55 ± 0.10
A (mm)	0.40 ± 0.10

Terminal name	Function
S1	Feeding Point
S2	GND

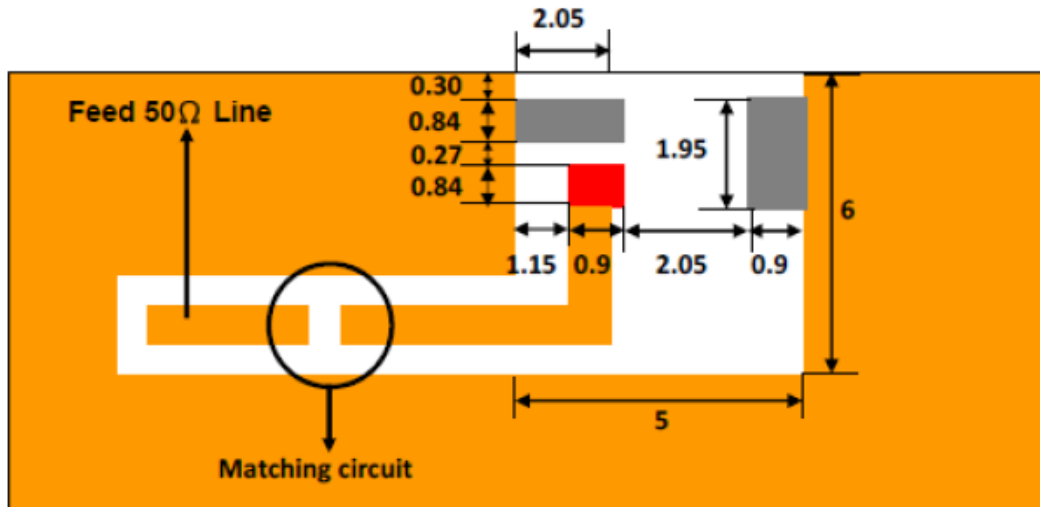
REFERENCE DESIGN OF EVALUATION BOARD

■ Clearance Definition:

□ (Size = 6.0 * 5.0 mm)



■ Soldering Pads Dimension and Footprint :



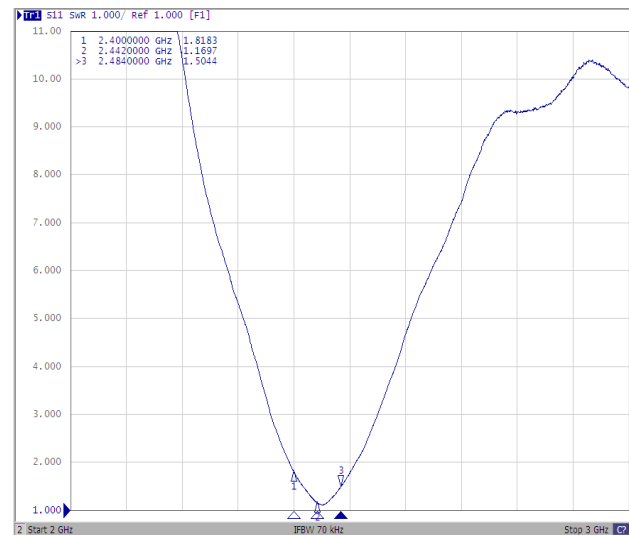
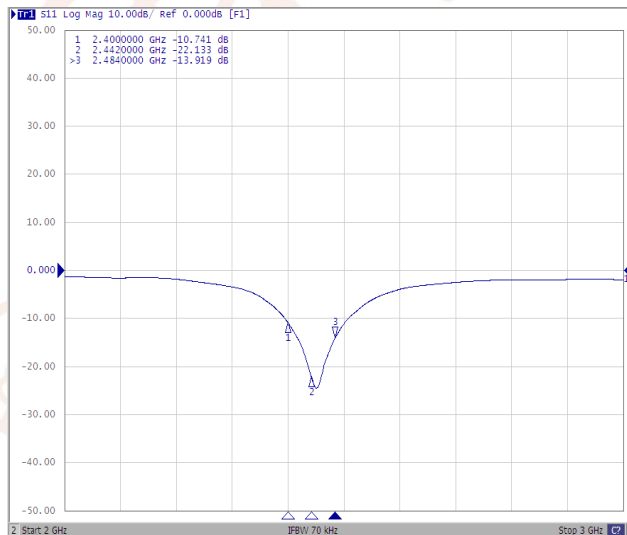
■ Footprint for Feeding

■ Footprint (connect to ground)

Unit:mm

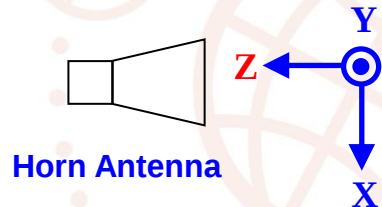
Return Loss & VSWR

	YAGEO 2.4GHz Chip Antenna (ANT3216A063R2400A)		
Frequency (MHz)	2400	2442	2484
R.L. (dB)	-10.7	-22.1	-13.9
VSWR	1.8	1.2	1.5

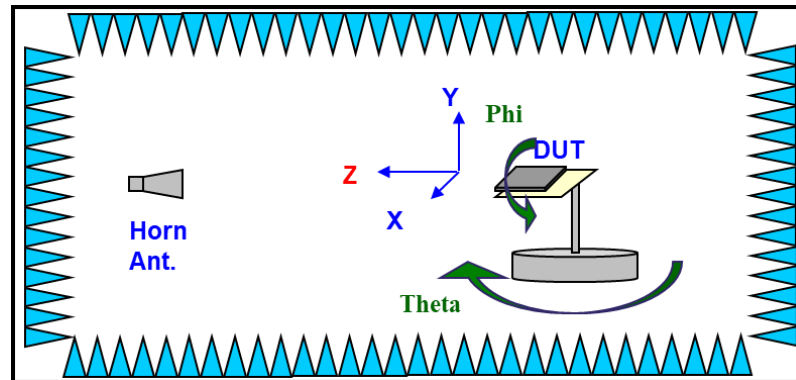


Measurement Configuration

[Direction Definition]



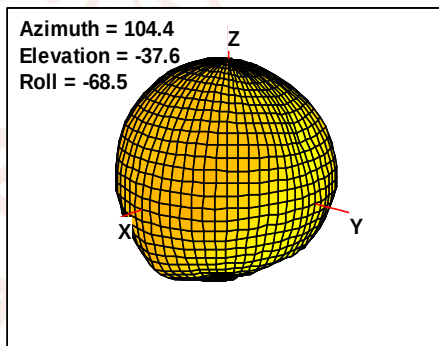
[Anechoic Chamber]



Radiation Pattern

2400 MHz

3D Gain



Max gain : 1.8 dBic

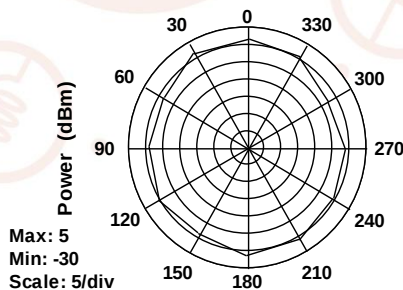
Avg. Gain : -0.88 dB

Directivity : 2.7 dB

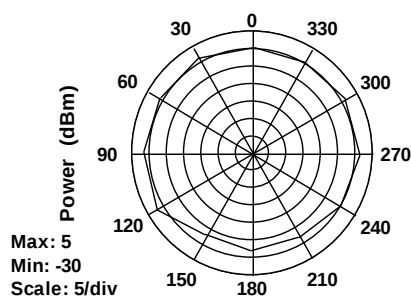
Efficiency : 81.7 %

2D Gain

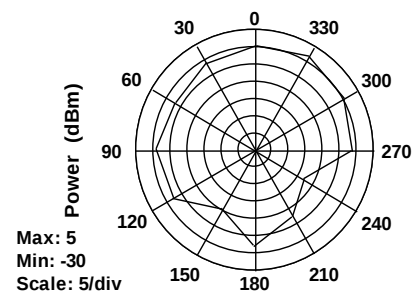
X-Y



Z-X



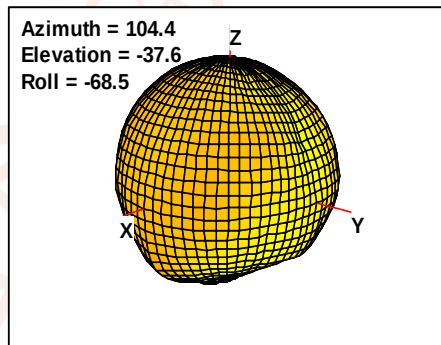
Z-Y



Radiation Pattern

2440 MHz

3D Gain



Max gain : 2.27 dBic

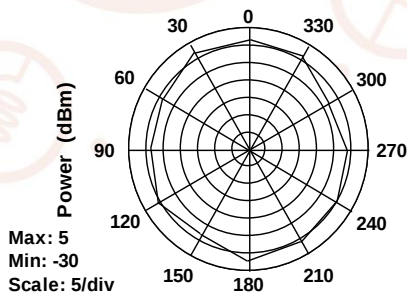
Avg. Gain : -0.69 dB

Directivity : 2.9 dB

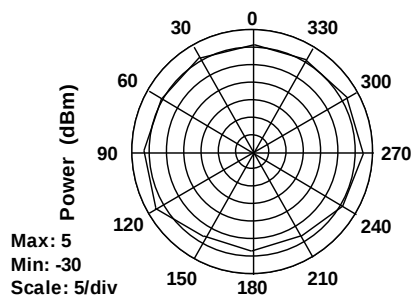
Efficiency : 85.34 %

2D Gain

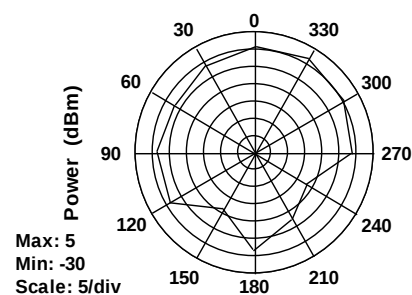
X-Y



Z-X



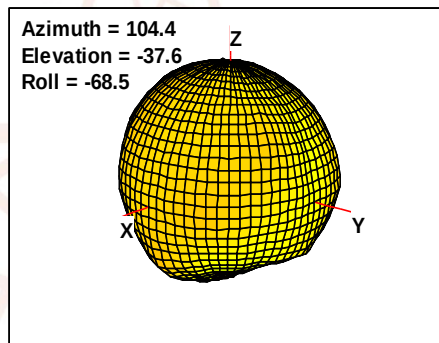
Z-Y



Radiation Pattern

2484 MHz

3D Gain



Max gain : 1.8 dBic

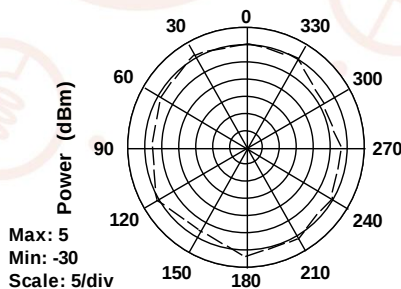
Avg. Gain : -1.19 dB

Directivity : 3.0 dB

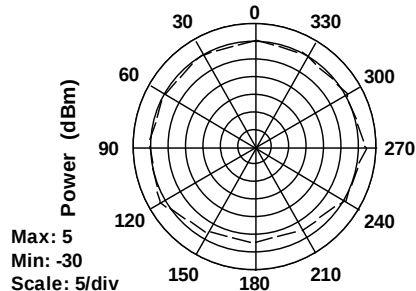
Efficiency : 76.0 %

2D Gain

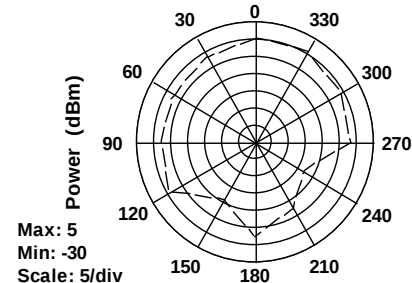
X-Y



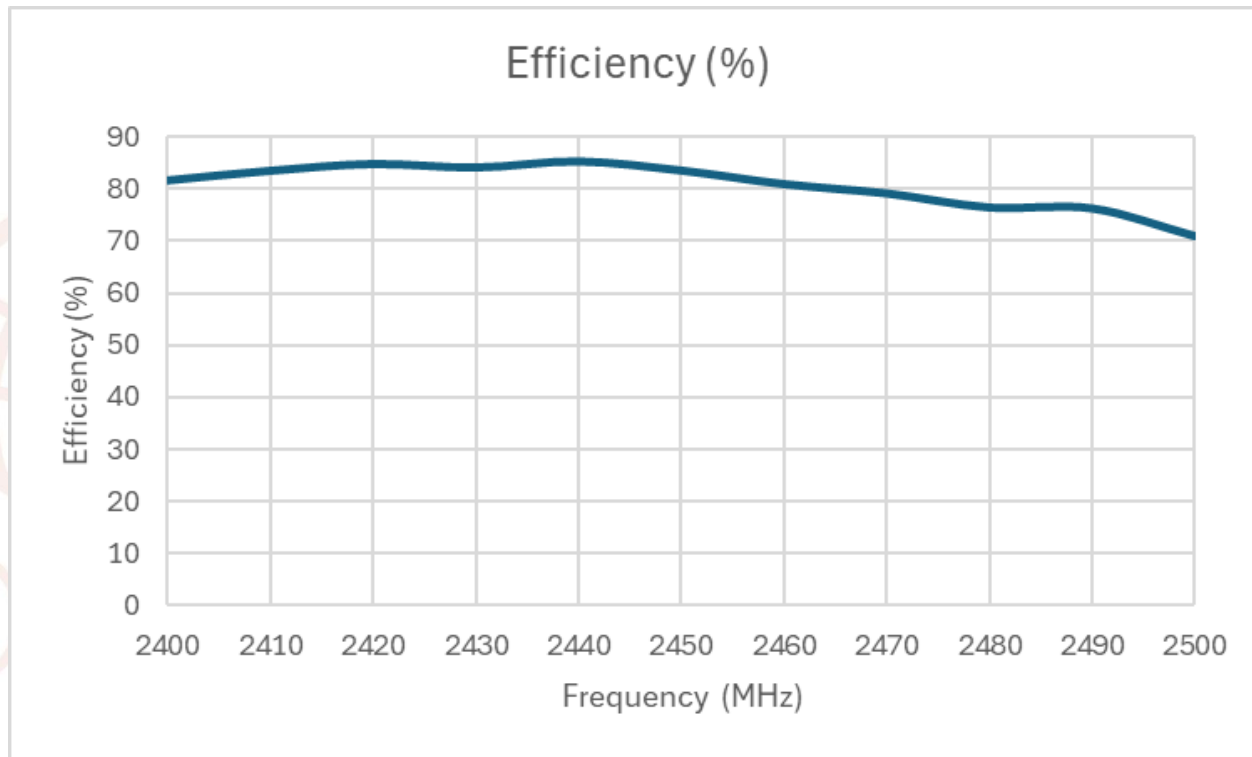
Z-X



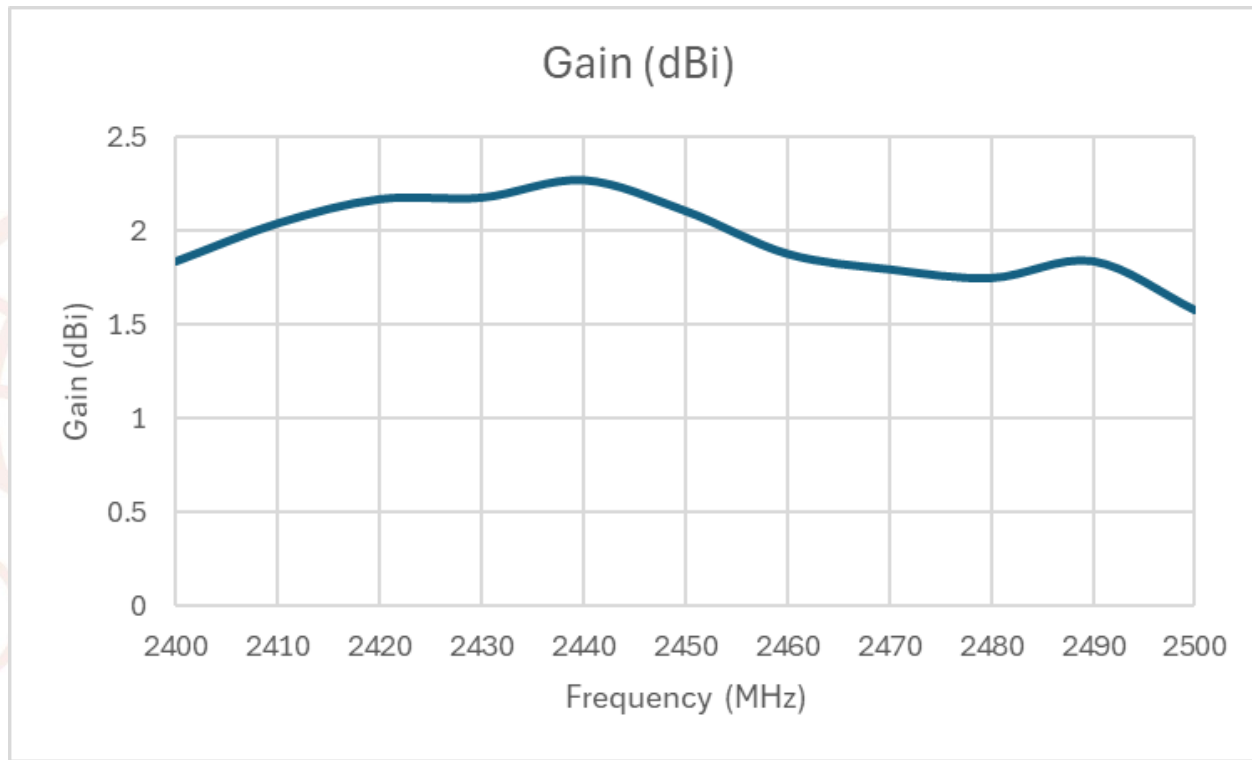
Z-Y



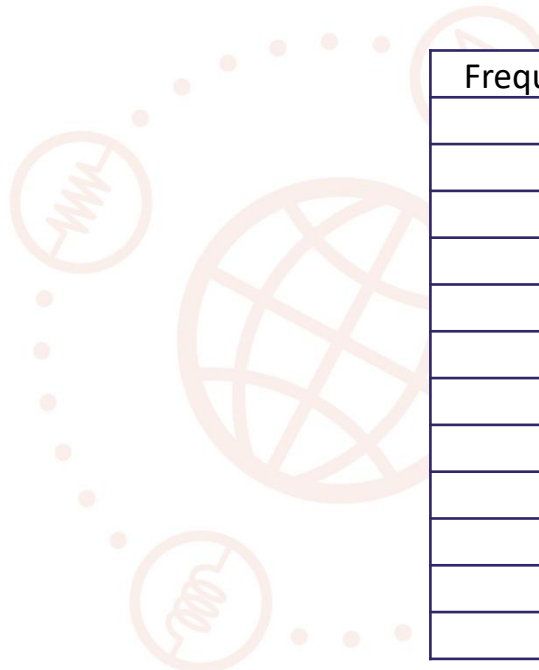
Antenna Performance Summary



Antenna Performance Summary



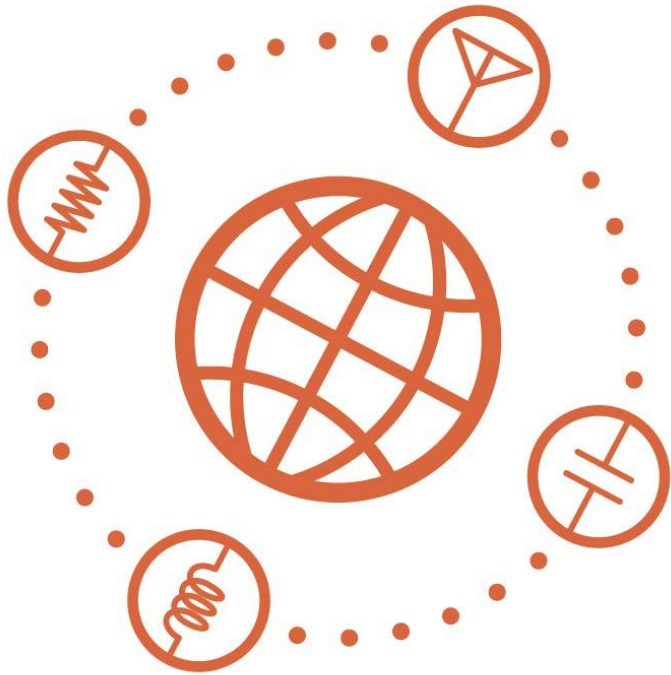
Antenna Performance Summary



Frequency(MHz)	Efficiency(%)	Gain(dBi)
2.4G Band		
2400	81.67	1.84
2410	83.53	2.04
2420	84.83	2.17
2430	84.16	2.17
2440	85.34	2.27
2450	83.56	2.10
2460	80.92	1.88
2470	79.11	1.79
2480	76.37	1.75
2490	76.18	1.84
2500	70.78	1.58

Antenna Performance Summary

Antenna	YAGEO 2.4GHz Chip Antenna (ANT3216A063R2400A)		
Frequency (MHz)	2400	2440	2484
R.L. (dB)	-10.7	-22.1	-13.9
VSWR	1.8	1.2	1.5
Max. Gain (dBic)	1.8	2.27	1.8
Avg. Gain (dB)	-0.99	-0.69	-1.19
Efficiency (%)	81.7	85.34	76.0



Thank you!