

RE29 - Antenna Approval sheet

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- 3D Radiation pattern

Rev 1.0

January. 23 , 2024

Revision History

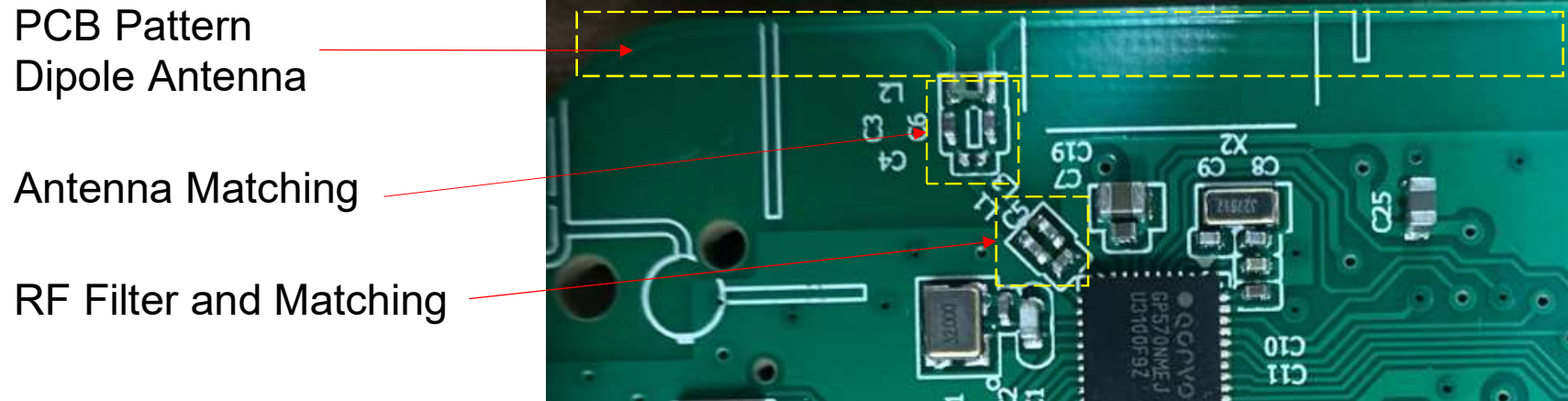
Version	Date	Editor	Notes
R0.1	January. 23 , 2024	JS.KIM	• Release

Electrical Characteristics

This specification covers the dielectric pattern antenna **RE29** used in Bluetooth

ITEM		SPECIFICATION				
Frequency Range		2402 ~ 2480 MHz				
VSWR		3:1 Max				
Polarization		Linear				
Frequency [MHz]		2400	2430	2450	2470	2480
Gain [dBi]	Peak	0.19	1.22	1.27	1.35	1.40
	Average	-3.58	-2.95	-2.96	-3.02	-2.88
Efficiency [%]		43.82	50.72	50.57	49.94	51.52

PCB Overview & Matching Value



VSWR & Smith Chart / 3D Gain data

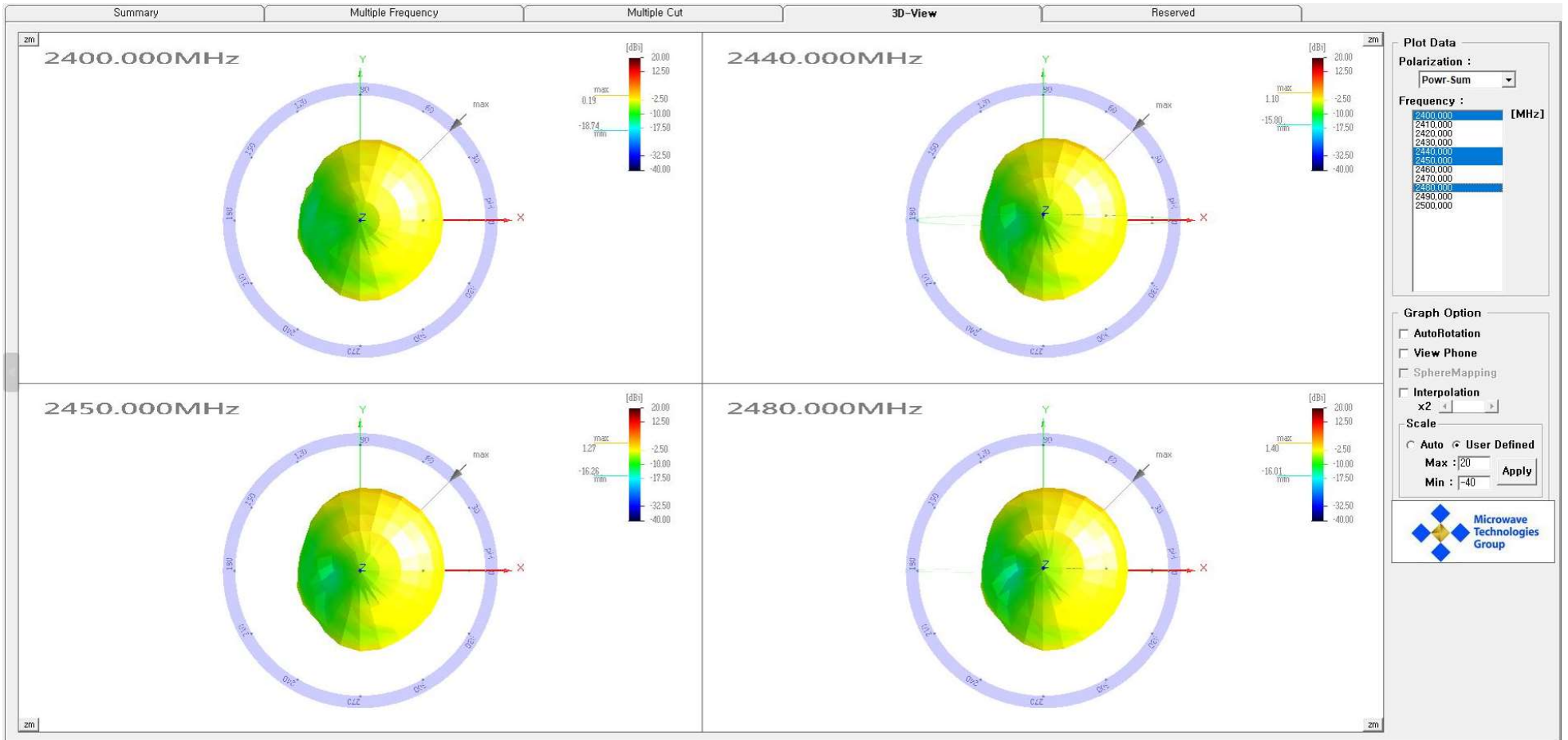


2D Radiation Pattern & Gain (ANT1)

3D Result Summary :

No	Freq.[MHz]	Theta-Pc			Phi-Pol(\)			Pwr Sum			Theta	Phi[de				
		Eff.[%]	Avg.[dBi]	Peak[dBi]	Eff.[%]	Avg.[dBi]	Peak[dBi]	Eff.[%]	Avg.[dBi]	Peak[dBi]						
1	2400.000	39.28	-4.06	0.18	90.00	45.00	4.53	-13.44	-5.08	30.00	270.00	43.82	-3.58	0.19	90.00	45.00
2	2410.000	43.54	-3.61	0.75	90.00	45.00	4.93	-13.07	-4.72	30.00	270.00	48.47	-3.15	0.76	90.00	45.00
3	2420.000	43.93	-3.57	0.94	90.00	45.00	4.94	-13.06	-4.77	30.00	270.00	48.87	-3.11	0.94	90.00	45.00
4	2430.000	45.54	-3.42	1.22	90.00	45.00	5.18	-12.85	-4.61	180.00	270.00	50.72	-2.95	1.22	90.00	45.00
5	2440.000	43.91	-3.57	1.10	90.00	45.00	4.99	-13.02	-4.31	180.00	270.00	48.90	-3.11	1.10	90.00	45.00
6	2450.000	45.49	-3.42	1.27	90.00	45.00	5.08	-12.94	-3.78	180.00	285.00	50.57	-2.96	1.27	90.00	45.00
7	2460.000	47.20	-3.26	1.49	90.00	45.00	5.25	-12.80	-3.26	180.00	285.00	52.44	-2.80	1.49	90.00	45.00
8	2470.000	44.98	-3.47	1.34	90.00	45.00	4.96	-13.05	-3.18	180.00	285.00	49.94	-3.02	1.35	90.00	45.00
9	2480.000	46.48	-3.33	1.40	90.00	45.00	5.04	-12.97	-2.81	180.00	285.00	51.52	-2.88	1.40	90.00	45.00
10	2490.000	46.02	-3.37	1.24	60.00	0.00	4.98	-13.03	-2.61	180.00	285.00	51.01	-2.92	1.32	60.00	0.00
11	2500.000	48.04	-3.18	1.44	60.00	15.00	5.06	-12.96	-2.31	180.00	285.00	53.10	-2.75	1.50	60.00	0.00

3D Radiation pattern



Thank you