



MG52E Patch Antenna Datasheet

The Cellular Patch Antenna (MA-ANT-DUAL-C3) is ideal for situations that require higher directional gain towards a cellular tower. When mounted high up on a pole for a clearer line of site toward a cellular tower, the MG cellular gateway will have higher signal quality and power. The patch antenna can be used to help increase signal strength if the dipole antennas are not giving you a signal quality you need. This antenna can help boost coverage due to its unique cone shape coverage pattern when pointed towards the correct cellular tower for your preferred carrier.



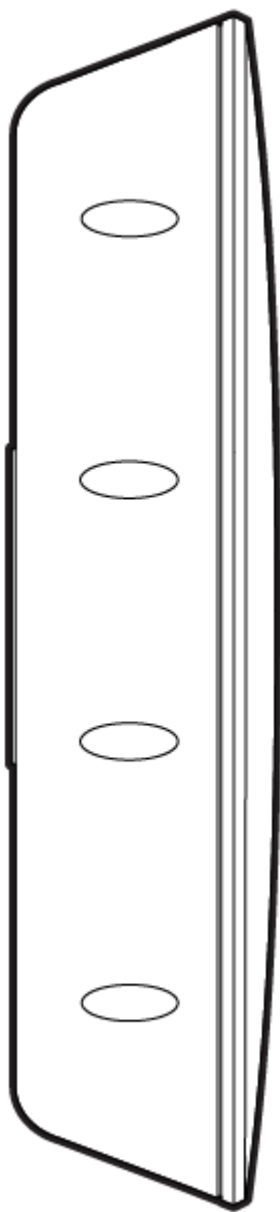
Antenna Profile

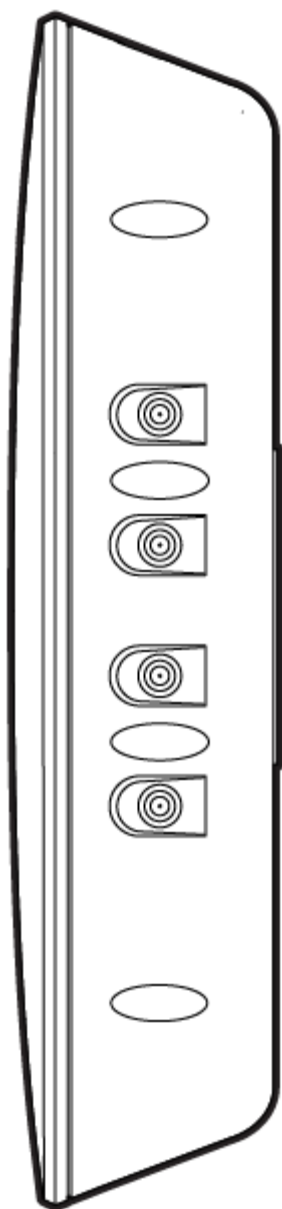
Top View

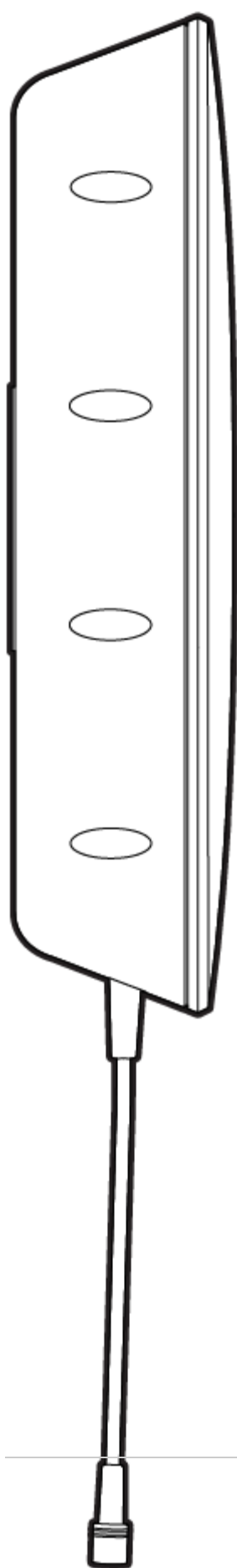
Bottom View

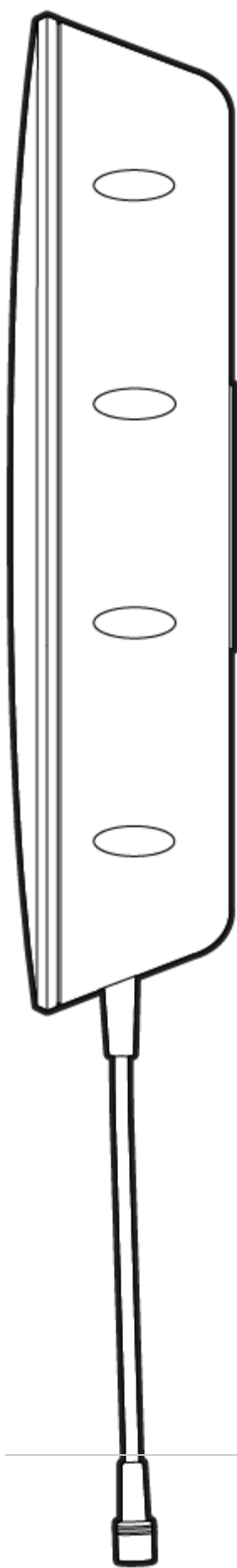
Left side view

Right side view



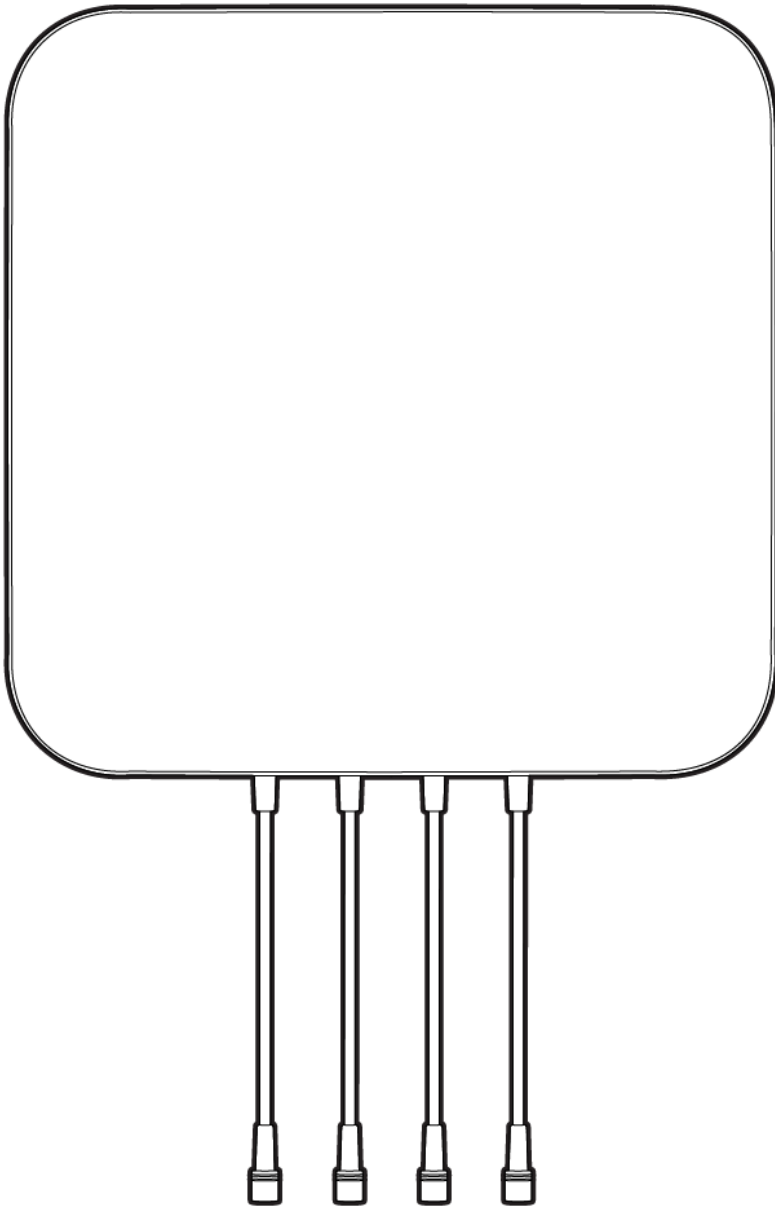


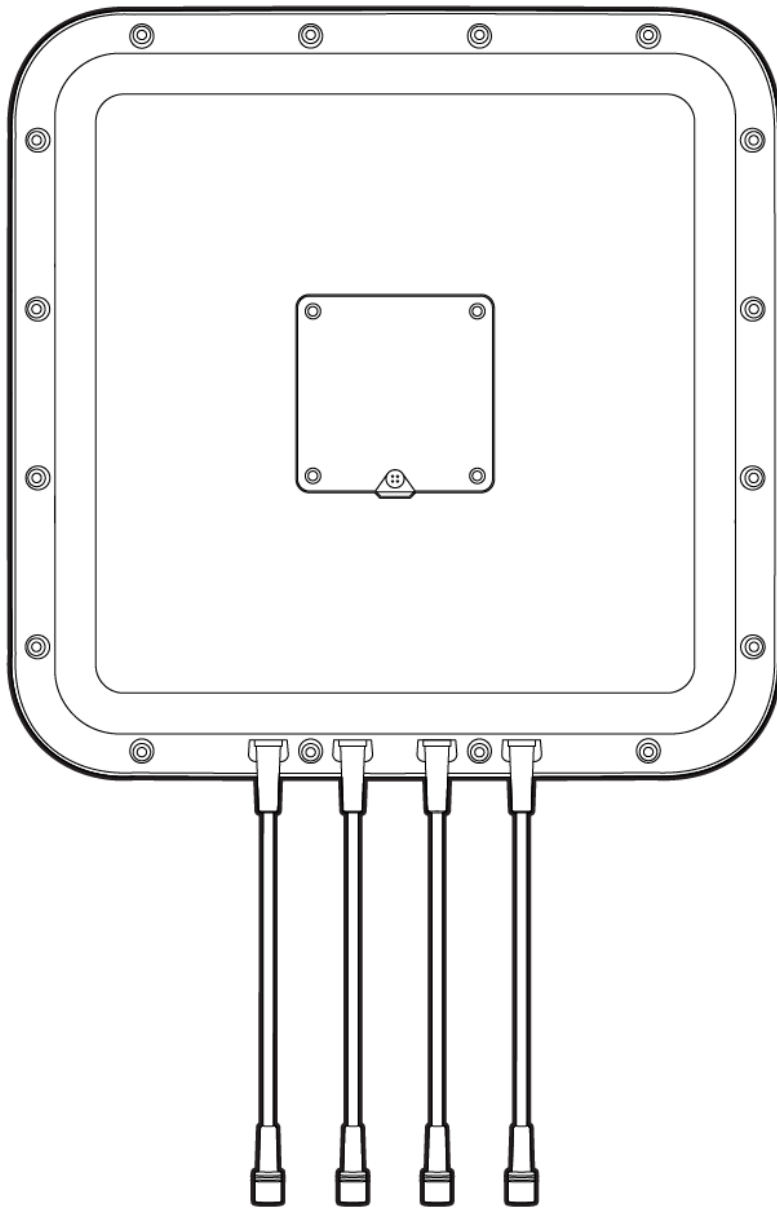




Front side

Back side





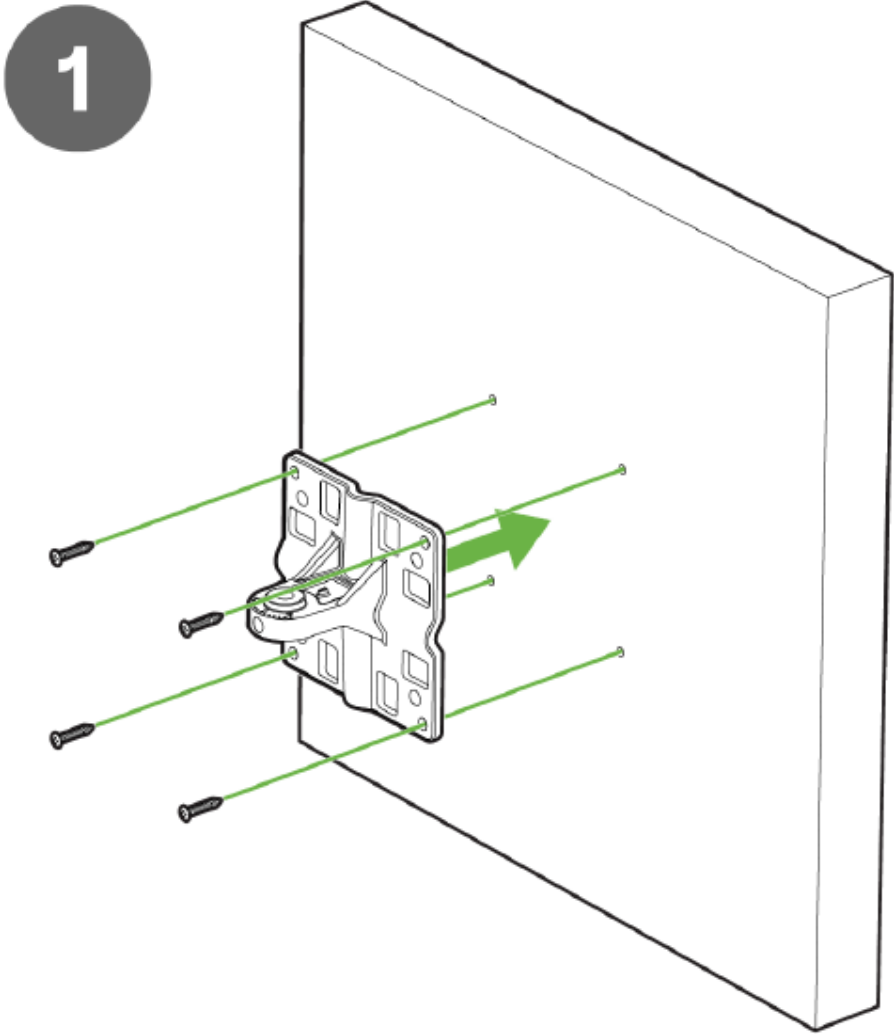
Specifications

Category	Specifications
Ordering Information	MA-ANT-DUAL-C3 (Please use this SKU name when ordering patch antenna set)
Dimensions	350mm x 350mm x 77.6mm
Type	Sub6 4x4 full band directional antenna
Connector	RP SMA PLUG 4x4
Cable	NFC-200 L:36 Inch

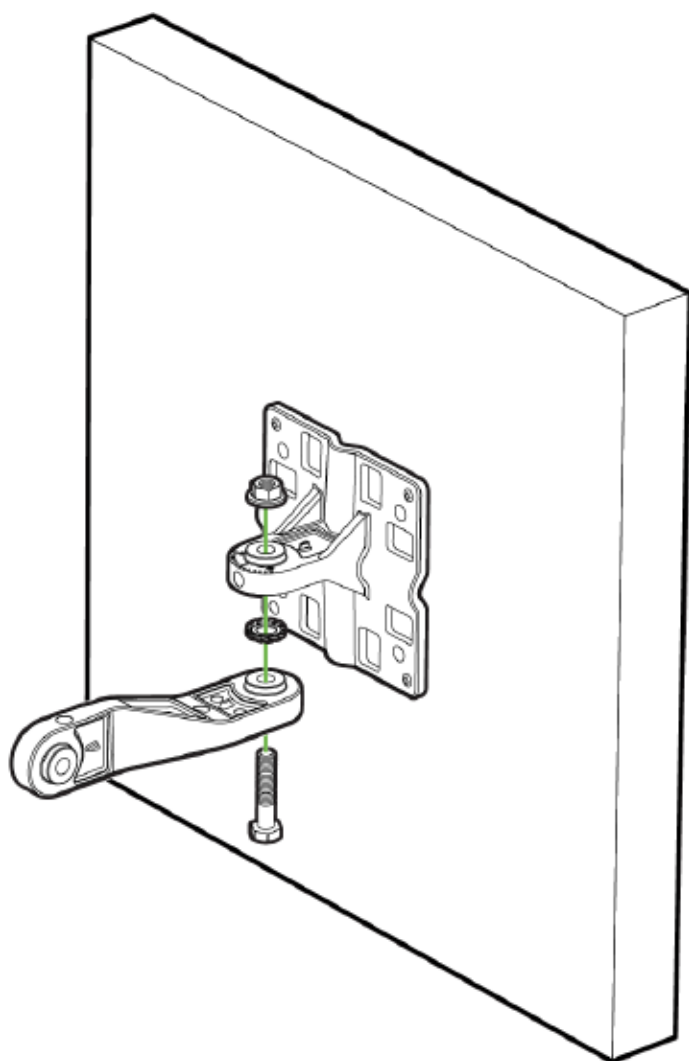
	Frequency(MHz)	P1	P2	P3
3dB Beamwidth H and V 50° ±10°	617-960	H:80 V:80	H:83 V:89	H:72 V:81
	1432-1518	H:62 V:70	H:74 V:79	H:42 V:74
	1710-2700	H: 64 V:45	H: 53 V:45	H: 54 V:47
	3300-5925	H: 61 V:67	H: 55 V:59	H: 53 V:64
Gain<8	617-960	4.18~5.71	4.14~5.47	4.13~5.26
	1432-1518	5.09~6.11	5.09~6.39	4.79~5.84
	1710-2700	5.85~7.59	6.00~7.97	6.30~7.81
	3300-5925	5.91~7.29	5.90~7.86	5.69~7.07
Gain Ripple <3	617-960	1.6	1.3	1.1
	1432-1518	1.1	1.3	1.0
	1710-2700	1.7	1.9	1.5
	3300-5925	1.4	1.9	1.4
Isolation > -20	617-960	-14	-13	-14
	1432-1518	-20	-20	-20
	1710-2700	-20	-20	-20
	3300-5925	-25	-25	-25
Efficiency > 60% (-2.2 db)	617-960	50.21~55.89	50.17~55.46	48.74~54.26
	1432-1518	54.35~59.54	53.30~60.18	50.06~57.20
	1710-2700	50.01~61.28	53.65~60.35	51.41~64.60
	3300-5925	45.98~54.94	44.52~56.60	42.21~54.44
VSWR<1.9:1	617-960	2.5	2.5	2.5
	1432-1518	1.9	1.9	1.9
	1710-2700	1.9	1.9	1.9
	3300-5925	1.9	1.9	1.9
Front to Back >15dbr	617-960	13	13	13
	1432-1518	13	14	13
	1710-2700	13	15	15
	3300-5925	15	15	15

Install Guide

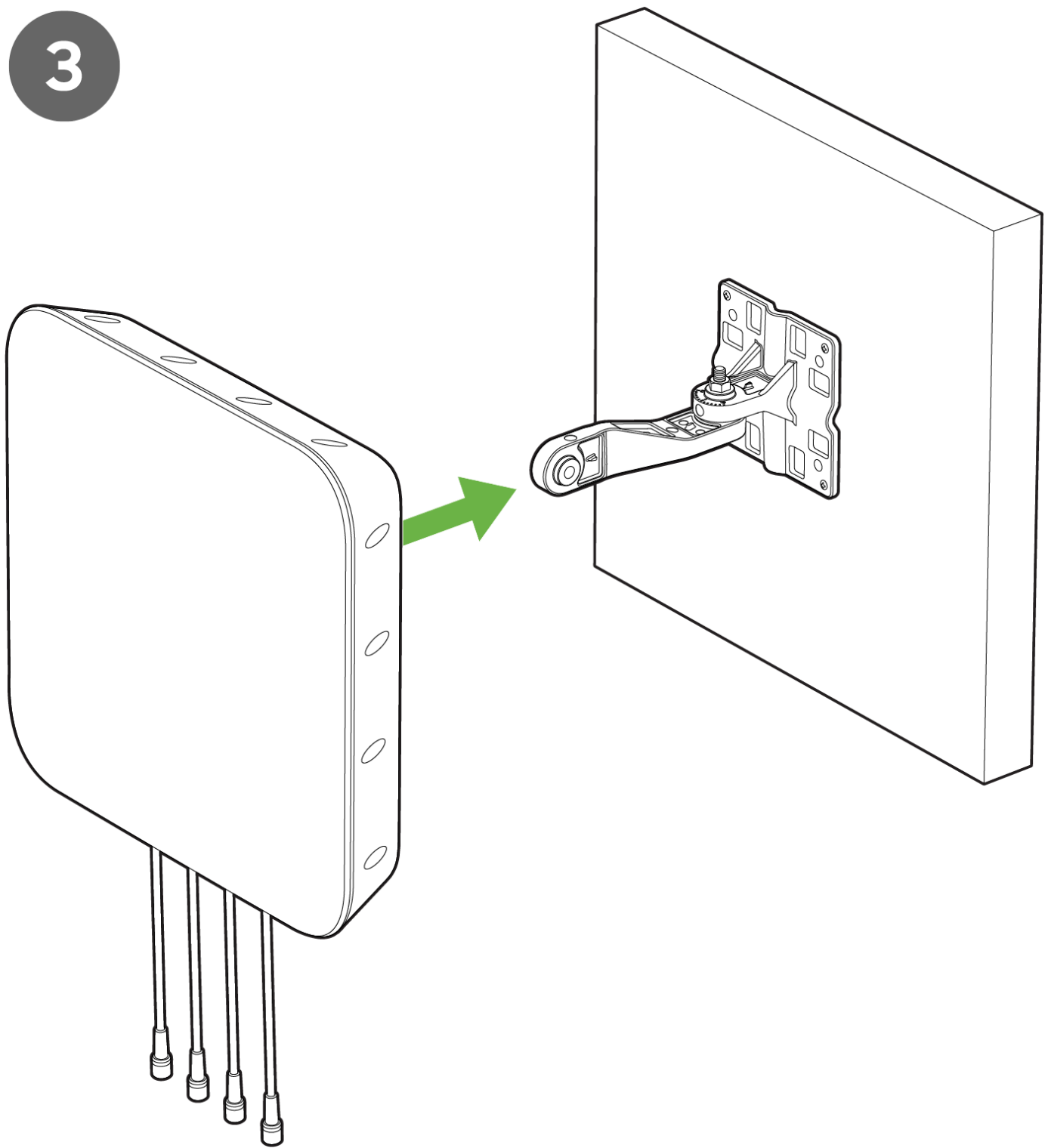
Wall Mounting



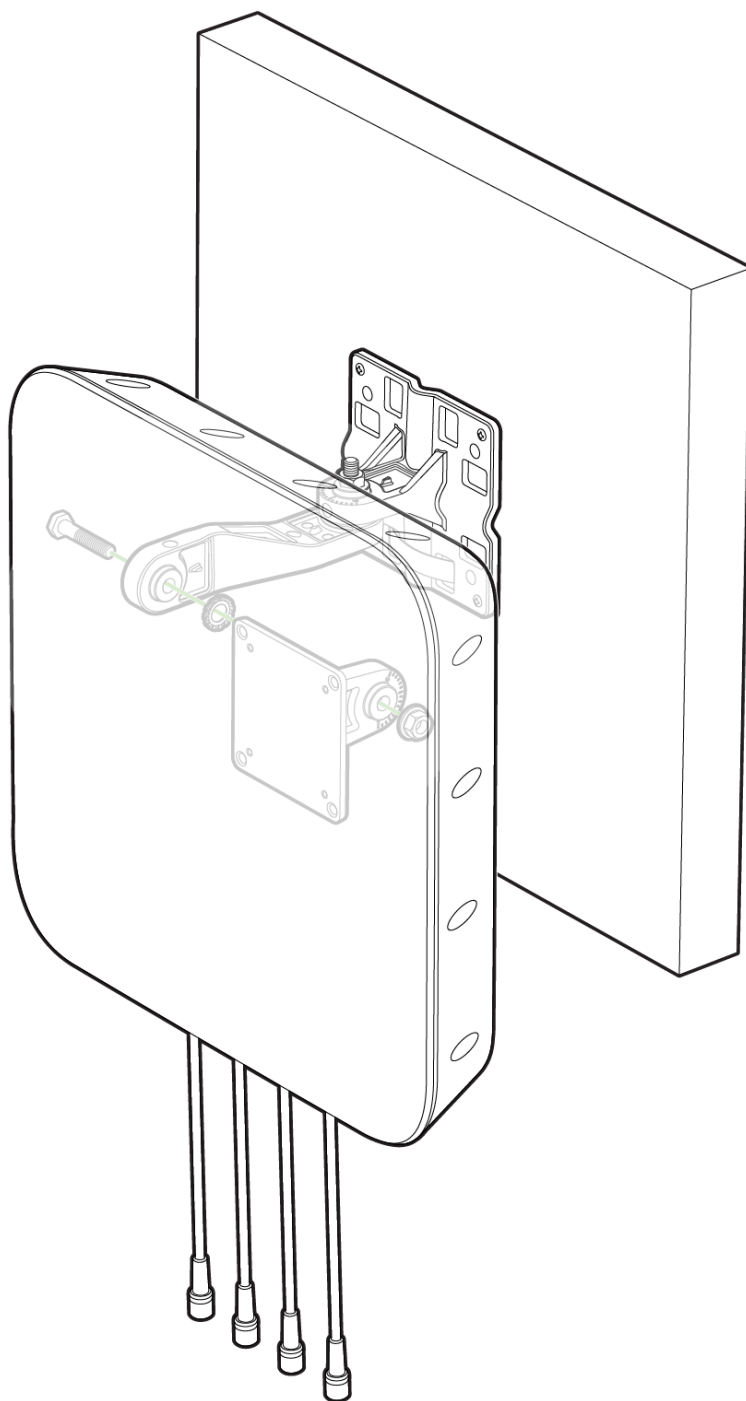
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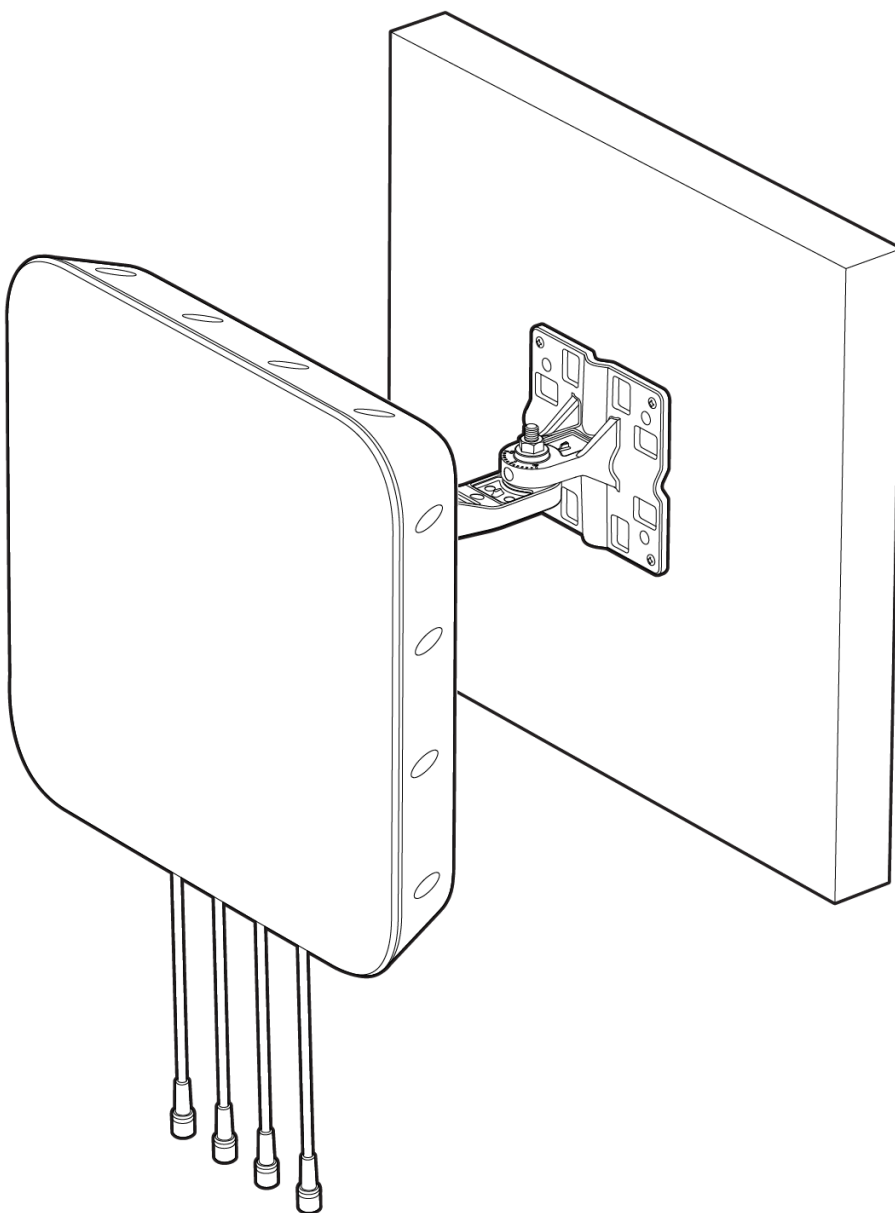
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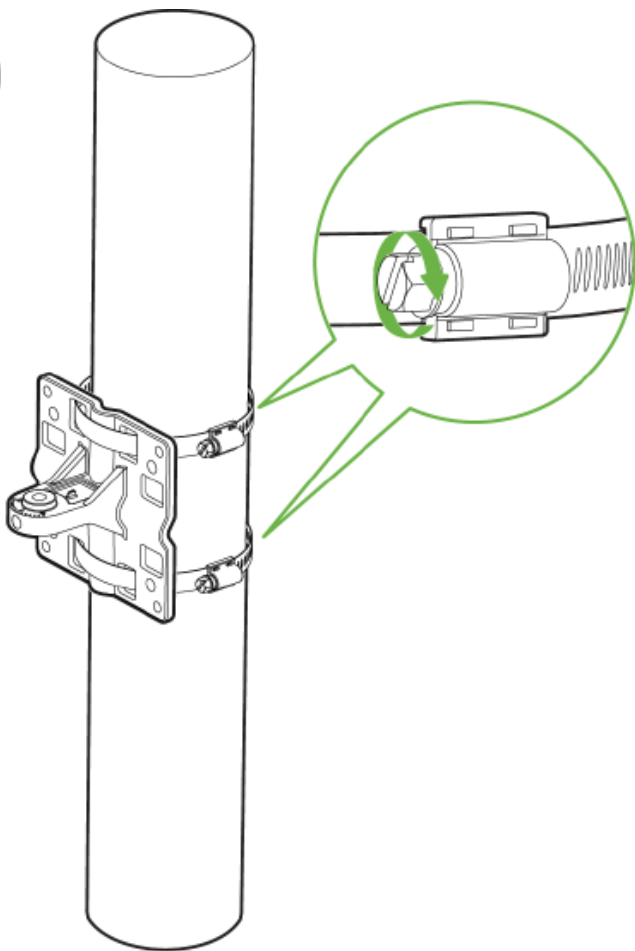


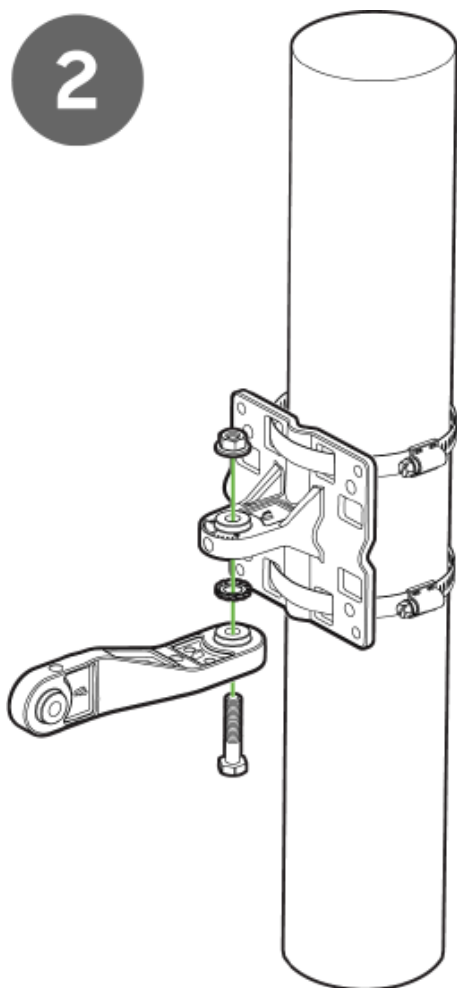
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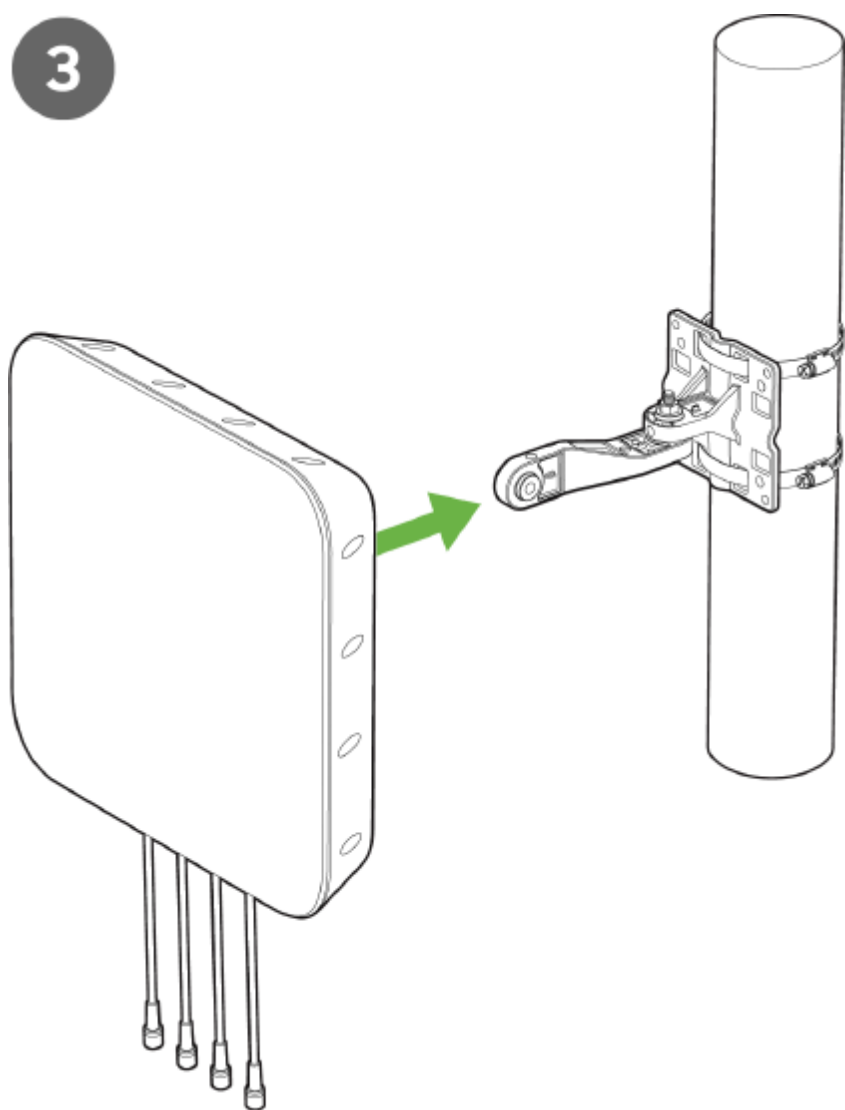
Pole Mounting

1

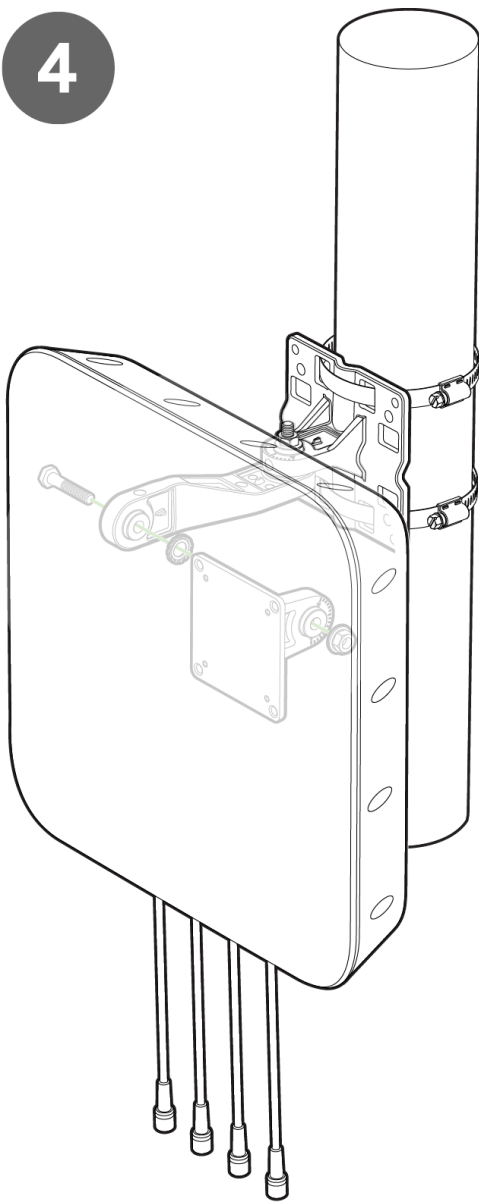




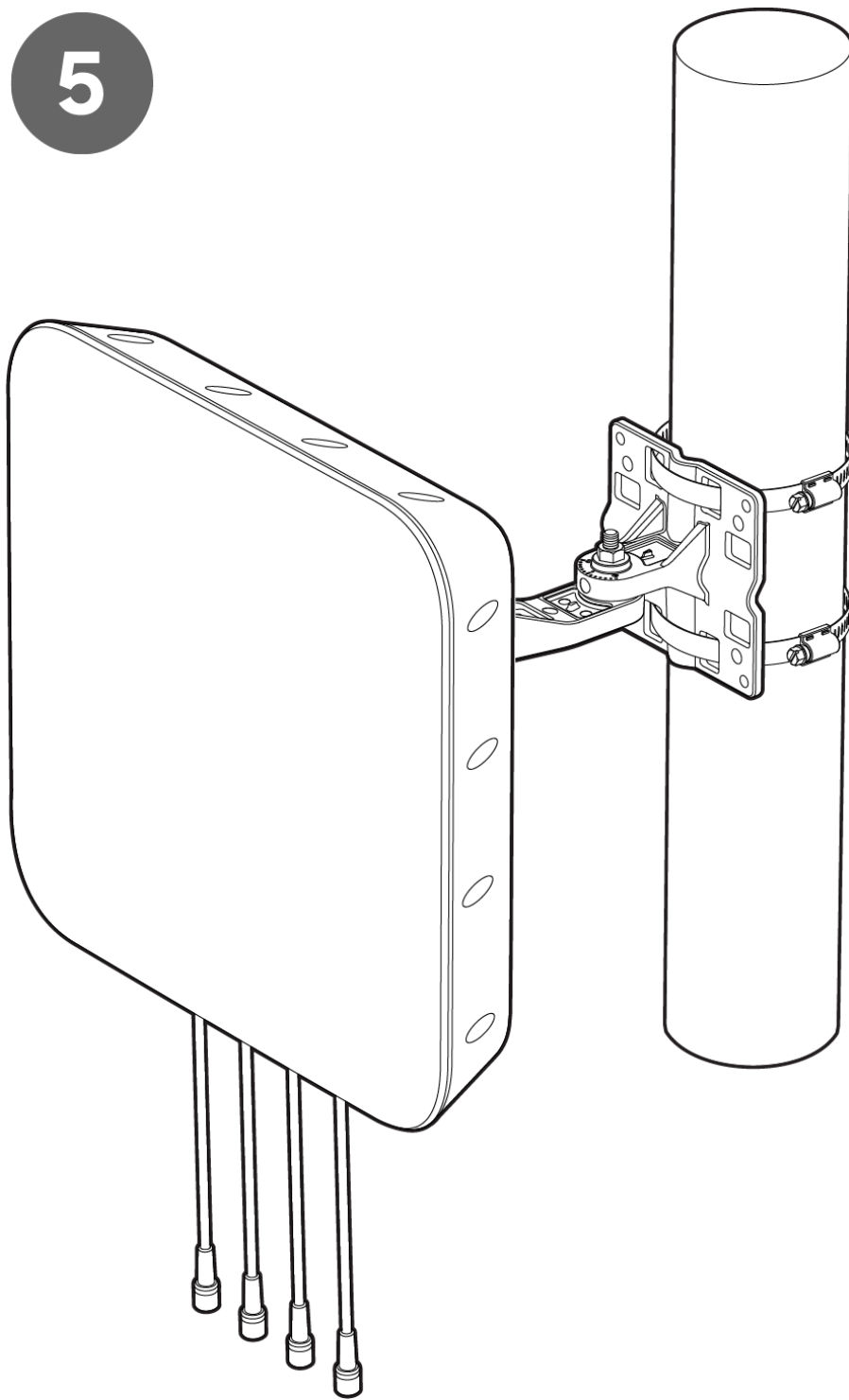
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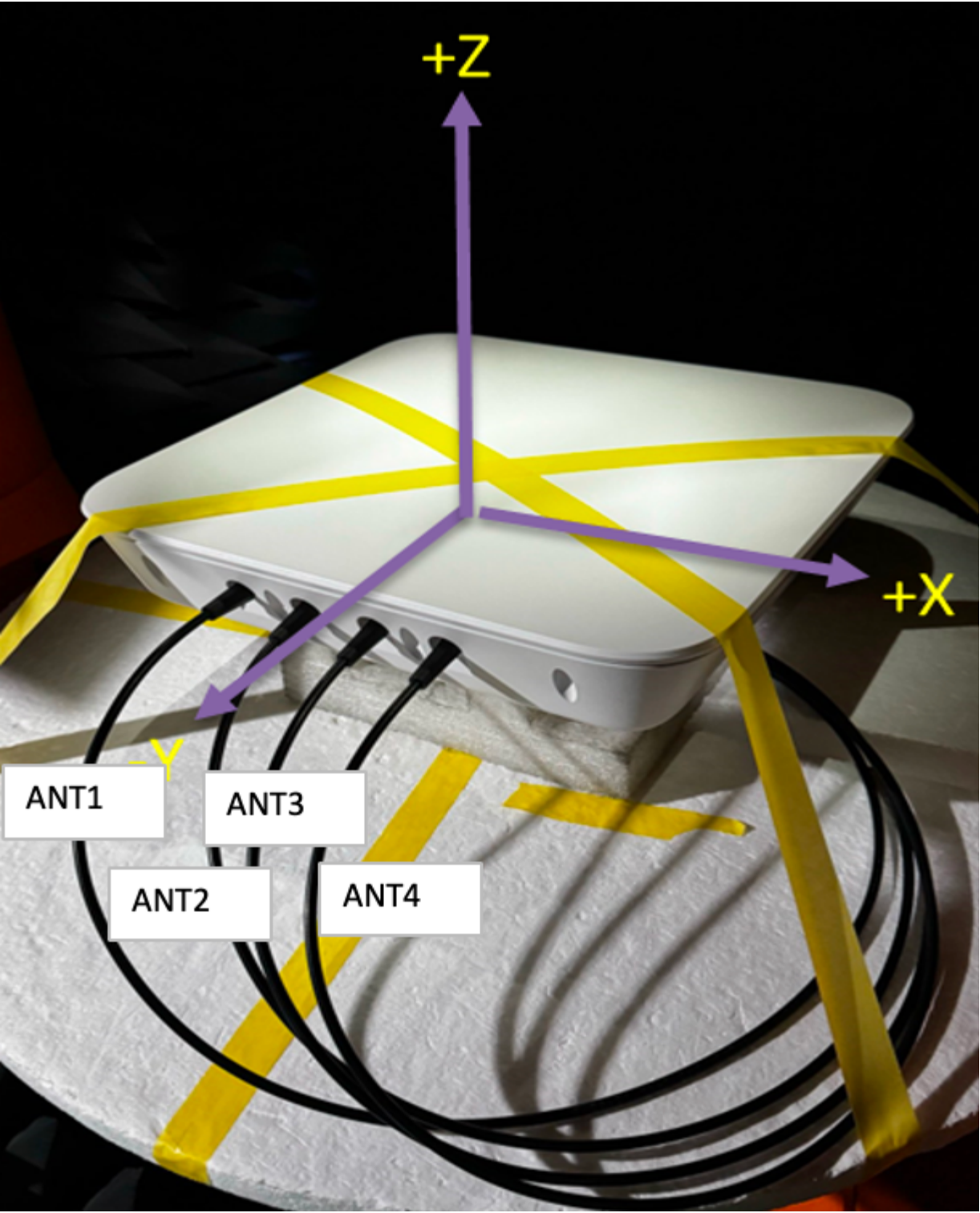
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Radiation Patterns



Ant 1

Band	Link type	Frequency (MHz)	3D	V+H Avg. Gain
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			Efficiency	Avg. Gain	Peak Gain	XY-plane
71	RX	617.00	50.21	-2.99	4.54	-6.18
71	RX	652.00	51.57	-2.88	4.18	-6.82
71	RX	663.00	54.49	-2.64	4.50	-5.65
71	TX	698.00	55.33	-2.57	4.38	-7.40
17	TX	710.00	54.71	-2.62	5.58	-7.84
12 17	TX	716.00	55.89	-2.53	5.71	-8.53
17	RX	734.00	55.25	-2.58	5.59	-7.49
13	RX	751.00	55.74	-2.54	4.27	-7.07
14	RX	768.00	52.23	-2.82	4.36	-5.69
14	TX	798.00	55.89	-2.53	4.51	-6.56
5	TX	824.00	52.65	-2.79	4.82	-5.49
5 26	TX	849.00	55.10	-2.59	4.55	-4.87
5	RX	869.00	52.76	-2.78	4.20	-5.35
5 26	RX	894.00	56.02	-2.52	4.89	-4.25
8	RX	925.00	54.75	-2.62	4.80	-5.68
8	RX	960.00	50.51	-2.97	4.69	-5.54
			53.95		4.72	
75	RX	1432.00	54.35	-2.65	5.09	-5.73
32	RX	1452.00	58.12	-2.36	5.34	-5.78
32	RX	1474.00	57.80	-2.38	5.53	-6.56
75	RX	1474.50	57.82	-2.38	5.55	-6.57
32	RX	1496.00	58.47	-2.33	5.93	-7.06
75	RX	1517.00	59.54	-2.25	6.11	-7.26
			57.68		5.59	
3 4 66	TX	1710.00	53.82	-2.69	5.88	-6.73
3	RX	1805.00	61.28	-2.13	6.76	-7.03
3 39	RX	1880.00	52.09	-2.83	5.51	-6.82
1	TX	1920.00	55.78	-2.54	6.54	-8.03
1 4	RX	2110.00	60.54	-2.18	7.27	-7.95

1	RX	2170.00	58.69	-2.31	6.86	-7.15	
66	RX	2200.00	56.65	-2.47	6.50	-5.93	
40	RX	2300.00	61.87	-2.09	6.56	-5.38	
30 40	RX	2350.00	61.21	-2.13	7.59	-5.68	
40	RX	2400.00	57.97	-2.37	7.13	-6.15	
7	TX	2500.00	55.24	-2.58	6.22	-5.73	
38	RX	2595.00	50.01	-3.01	5.85	-5.47	
7	RX	2690.00	51.96	-2.84	5.92	-4.79	
			56.70		6.51		
n77 n78	RX	3300.00	51.59	-2.87	7.33	-9.12	
42	RX	3400.00	51.84	-2.85	7.08	-10.37	
48 n78	RX	3550.00	56.07	-2.51	7.27	-8.93	
42 43	RX	3600.00	52.69	-2.78	7.29	-9.82	
43 48	RX	3700.00	52.87	-2.77	6.53	-10.36	
n78	RX	3800.00	53.27	-2.74	6.53	-9.77	
n77	RX	4200.00	54.94	-2.60	7.61	-10.25	
n79	RX	4400.00	53.03	-2.76	7.45	-10.44	
n79	RX	4700.00	49.30	-3.07	7.24	-7.95	
n79	RX	5000.00	46.77	-3.30	5.96	-8.01	
46	RX	5150.00	45.55	-3.42	5.90	-8.27	
46	RX	5537.50	45.77	-3.39	5.93	-6.49	
46	RX	5925.00	45.98	-3.37	5.91	-5.57	
			50.74		6.77		
Ant 2							
Band	Link type	Frequency (MHz)	3D			V+H Avg. Gain	
			Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane
71	RX	617.00	50.93	-2.93	4.63	-6.16	-1.55
71	RX	652.00	51.26	-2.90	4.57	-4.90	-1.46
71	RX	663.00	50.17	-3.00	4.87	-7.32	-1.73

71	TX	698.00	50.98	-2.93	4.48	-5.59	-1.35
17	TX	710.00	52.01	-2.84	4.48	-6.11	-1.01
12 17	TX	716.00	51.68	-2.87	4.63	-6.88	-1.08
17	RX	734.00	54.58	-2.63	5.47	-7.33	-1.38
13	RX	751.00	50.80	-2.94	4.98	-6.45	-1.48
14	RX	768.00	52.44	-2.80	5.28	-7.50	-1.47
14	TX	798.00	51.17	-2.91	4.19	-6.57	-1.71
5	TX	824.00	52.68	-2.78	4.57	-5.62	-0.81
5 26	TX	849.00	50.90	-2.93	5.16	-5.59	-1.36
5	RX	869.00	55.46	-2.56	4.85	-5.28	-1.80
5 26	RX	894.00	52.04	-2.84	4.23	-5.61	-1.27
8	RX	925.00	51.19	-2.91	4.46	-5.88	-1.31
8	RX	960.00	51.76	-2.86	4.14	-4.67	-2.24
			51.88		4.69		
75	RX	1432.00	53.30	-2.73	5.09	-6.46	-2.19
32	RX	1452.00	54.27	-2.65	5.11	-6.07	-2.08
32	RX	1474.00	58.18	-2.35	5.35	-6.13	-1.88
75	RX	1474.50	58.28	-2.34	5.37	-6.12	-1.88
32	RX	1496.00	58.87	-2.30	5.29	-5.74	-2.56
75	RX	1517.00	60.18	-2.21	6.39	-6.30	-0.87
			57.18		5.43		
3 4 66	TX	1710.00	60.26	-2.20	6.00	-4.73	-0.70
3	RX	1805.00	60.35	-2.19	6.85	-7.97	0.06
3 39	RX	1880.00	55.13	-2.59	6.96	-8.34	-0.44
1	TX	1920.00	54.34	-2.65	7.97	-8.52	-0.27
1 4	RX	2110.00	56.59	-2.47	6.49	-8.03	-0.68
1	RX	2170.00	55.11	-2.59	6.54	-7.65	-1.57
66	RX	2200.00	59.13	-2.28	6.92	-8.37	-2.24
40	RX	2300.00	63.46	-1.98	6.30	-5.82	-2.48
30 40	RX	2350.00	59.70	-2.24	7.67	-6.43	-1.67

40	RX	2400.00	59.12	-2.28	7.03	-5.15	-0.49
7	TX	2500.00	59.52	-2.25	6.33	-4.55	-2.26
38	RX	2595.00	57.98	-2.37	6.70	-5.42	-2.09
7	RX	2690.00	53.65	-2.70	6.67	-6.92	-2.51
			58.03		6.80		
n77 n78	RX	3300.00	51.57	-2.88	7.15	-10.67	0.09
42	RX	3400.00	50.85	-2.94	6.20	-8.37	-1.46
48 n78	RX	3550.00	52.67	-2.78	7.22	-8.38	-0.47
42 43	RX	3600.00	56.60	-2.47	7.12	-9.21	-0.48
43 48	RX	3700.00	53.14	-2.75	6.73	-9.96	-0.73
n78	RX	3800.00	52.04	-2.84	7.68	-10.37	-0.25
n77	RX	4200.00	54.28	-2.65	7.67	-8.97	0.45
n79	RX	4400.00	53.14	-2.75	7.86	-10.19	-0.03
n79	RX	4700.00	51.28	-2.90	6.95	-7.82	-0.90
n79	RX	5000.00	48.58	-3.14	6.61	-7.28	-2.34
46	RX	5150.00	44.52	-3.51	6.23	-7.26	-2.58
46	RX	5537.50	50.19	-2.99	6.19	-5.55	-2.62
46	RX	5925.00	48.09	-3.18	5.90	-5.67	-3.68
			51.30		6.89		
Ant 3							
Band	Link type	Frequency (MHz)	3D			V+H Avg. Gain	
			Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane
71	RX	617.00	51.84	-2.85	4.13	-6.30	-1.51
71	RX	652.00	54.70	-2.62	4.29	-2.84	-1.70
71	RX	663.00	53.39	-2.73	4.43	-5.44	-2.26
71	TX	698.00	58.18	-2.35	4.47	-4.97	-1.74
17	TX	710.00	51.85	-2.85	4.29	-3.47	-0.16
12 17	TX	716.00	54.26	-2.65	4.38	-5.86	-1.26
17	RX	734.00	52.52	-2.80	5.19	-7.24	-1.44

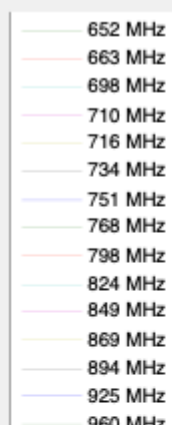
13	RX	751.00	55.01	-2.60	5.26	-7.17	-1.70
14	RX	768.00	52.39	-2.81	4.74	-7.23	-1.74
14	TX	798.00	50.11	-3.00	4.44	-7.09	-2.52
5	TX	824.00	50.54	-2.96	4.22	-6.23	-2.83
5 26	TX	849.00	48.74	-3.12	4.34	-5.52	-1.75
5	RX	869.00	51.20	-2.91	4.28	-5.58	-1.89
5 26	RX	894.00	51.13	-2.91	4.62	-4.01	-0.71
8	RX	925.00	51.65	-2.87	4.31	-6.07	-2.83
8	RX	960.00	51.07	-2.92	4.70	-5.24	-4.26
			52.41		4.51		
75	RX	1432.00	50.06	-3.01	5.07	-8.01	-2.43
32	RX	1452.00	53.81	-2.69	4.79	-7.84	-1.73
32	RX	1474.00	53.17	-2.74	5.70	-7.69	-0.59
75	RX	1474.50	53.30	-2.73	5.75	-7.69	-0.56
32	RX	1496.00	55.95	-2.52	5.81	-8.64	-0.92
75	RX	1517.00	57.20	-2.43	5.84	-8.76	-1.47
			53.91		5.49		
3 4 66	TX	1710.00	62.39	-2.05	6.71	-6.48	-0.52
3	RX	1805.00	59.80	-2.23	6.34	-9.41	-0.81
3 39	RX	1880.00	60.51	-2.18	6.65	-10.62	-0.95
1	TX	1920.00	60.86	-2.16	7.21	-10.25	-0.92
1 4	RX	2110.00	63.58	-1.97	6.61	-8.77	-1.82
1	RX	2170.00	61.08	-2.14	6.77	-8.24	-2.42
66	RX	2200.00	58.84	-2.30	6.54	-8.48	-2.87
40	RX	2300.00	64.60	-1.90	7.65	-6.77	-1.95
30 40	RX	2350.00	62.88	-2.02	7.81	-6.67	-1.75
40	RX	2400.00	59.50	-2.25	7.46	-7.01	-1.45
7	TX	2500.00	59.76	-2.24	6.98	-6.17	-1.28
38	RX	2595.00	58.20	-2.35	6.30	-6.26	-3.25
7	RX	2690.00	51.41	-2.89	6.57	-5.87	-2.73

			60.26		6.89		
n77 n78	RX	3300.00	50.80	-2.94	7.02	-9.72	-0.66
42	RX	3400.00	53.07	-2.75	6.44	-9.95	-0.02
48 n78	RX	3550.00	51.67	-2.87	6.37	-9.77	-0.55
42 43	RX	3600.00	54.44	-2.64	6.57	-9.88	-0.44
43 48	RX	3700.00	54.13	-2.67	6.57	-8.55	-0.64
n78	RX	3800.00	54.05	-2.67	5.69	-9.25	-0.83
n77	RX	4200.00	51.39	-2.89	6.89	-11.87	-0.64
n79	RX	4400.00	51.24	-2.90	7.07	-11.00	-0.23
n79	RX	4700.00	47.86	-3.20	6.71	-9.05	-1.00
n79	RX	5000.00	47.58	-3.23	6.55	-7.36	-2.22
46	RX	5150.00	42.21	-3.75	6.20	-6.47	-1.93
46	RX	5537.50	46.26	-3.35	5.98	-3.96	-1.47
46	RX	5925.00	45.07	-3.46	5.90	-4.47	-2.63
			49.98		6.46		
Ant 4							
Band	Link type	Frequency (MHz)	3D			V+H Avg. Gain	
			Efficiency	Avg. Gain	Peak Gain	XY-plane	YZ-plane
71	RX	617.00	51.71	-2.86	4.14	-4.16	-1.32
71	RX	652.00	52.72	-2.78	4.32	-6.10	-2.08
71	RX	663.00	53.63	-2.71	4.66	-6.26	-1.94
71	TX	698.00	53.69	-2.70	4.79	-7.55	-2.14
17	TX	710.00	53.62	-2.71	4.75	-7.72	-1.99
12 17	TX	716.00	58.36	-2.34	4.50	-8.38	-2.36
17	RX	734.00	51.63	-2.87	4.34	-7.54	-2.32
13	RX	751.00	51.66	-2.87	4.48	-7.06	-2.26
14	RX	768.00	52.89	-2.77	4.66	-6.31	-1.77
14	TX	798.00	56.90	-2.45	4.43	-6.10	-1.96
5	TX	824.00	58.89	-2.30	4.35	-5.94	-1.74

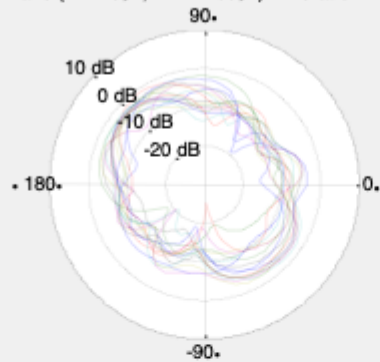
5 26	TX	849.00	50.99	-2.93	4.66	-4.63	-0.53
5	RX	869.00	55.48	-2.56	4.92	-5.08	-1.22
5 26	RX	894.00	52.86	-2.77	5.14	-4.74	-0.92
8	RX	925.00	51.53	-2.88	5.22	-4.26	-0.45
8	RX	960.00	53.03	-2.76	4.35	-4.67	-0.74
			53.72		4.61		
75	RX	1432.00	50.17	-3.00	4.28	-6.23	-3.94
32	RX	1452.00	57.50	-2.40	4.66	-4.62	-1.55
32	RX	1474.00	56.67	-2.47	5.12	-5.37	-1.68
75	RX	1474.50	56.50	-2.48	5.11	-5.40	-1.70
32	RX	1496.00	58.73	-2.31	4.22	-5.55	-3.54
75	RX	1517.00	53.96	-2.68	4.19	-4.80	-4.23
			55.59		4.60		
3 4 66	TX	1710.00	65.81	-1.82	6.23	-7.27	-0.46
3	RX	1805.00	59.29	-2.27	5.04	-5.25	-1.50
3 39	RX	1880.00	58.65	-2.32	6.40	-7.17	-0.78
1	TX	1920.00	58.90	-2.30	7.13	-6.16	0.35
1 4	RX	2110.00	58.45	-2.33	6.58	-6.99	-1.51
1	RX	2170.00	60.51	-2.18	7.01	-6.78	-1.43
66	RX	2200.00	58.29	-2.34	6.58	-6.36	-1.69
40	RX	2300.00	60.89	-2.15	7.07	-5.19	-1.89
30 40	RX	2350.00	56.87	-2.45	8.00	-6.56	-1.92
40	RX	2400.00	58.04	-2.36	6.91	-6.34	-1.70
7	TX	2500.00	54.16	-2.66	6.28	-5.71	-2.32
38	RX	2595.00	52.87	-2.77	6.60	-6.09	-2.55
7	RX	2690.00	51.12	-2.91	5.50	-6.47	-3.57
			57.99		6.56		
n77 n78	RX	3300.00	50.19	-2.99	6.57	-10.92	-0.78
42	RX	3400.00	51.63	-2.87	6.64	-10.90	-0.26
48 n78	RX	3550.00	54.10	-2.67	7.15	-9.44	-0.87

42 43	RX	3600.00	52.51	-2.80	7.13	-10.21	-0.74
43 48	RX	3700.00	53.44	-2.72	6.77	-9.77	-1.31
n78	RX	3800.00	55.52	-2.56	6.85	-10.47	-1.22
n77	RX	4200.00	53.43	-2.72	7.27	-10.46	-0.14
n79	RX	4400.00	51.03	-2.92	7.46	-11.01	-0.64
n79	RX	4700.00	50.55	-2.96	6.65	-9.58	-1.64
n79	RX	5000.00	47.17	-3.26	6.57	-8.53	-2.93
46	RX	5150.00	42.91	-3.67	6.83	-8.90	-3.95
46	RX	5537.50	52.39	-2.81	6.62	-7.77	-4.36
46	RX	5925.00	46.14	-3.36	6.09	-6.68	-4.48
			50.85		6.81		

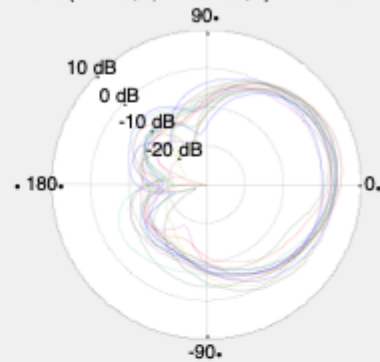
SUD6G-L0 - 600 - 960 MHz



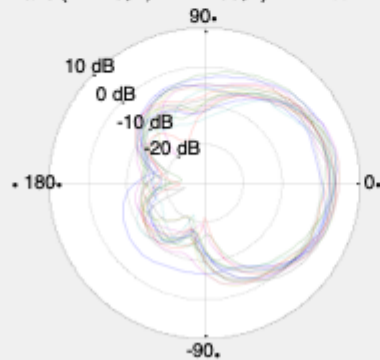
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X



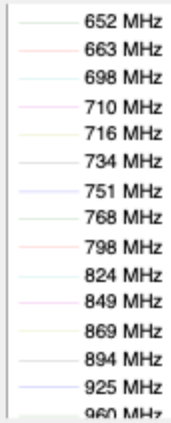
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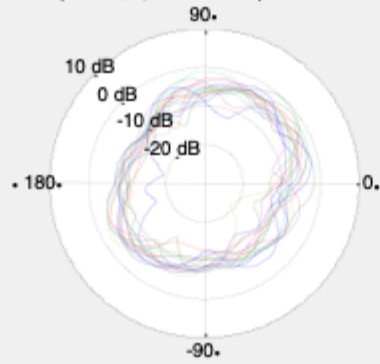
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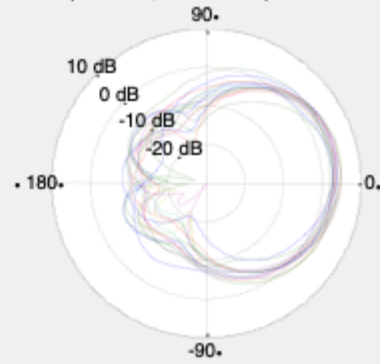
SUB6G-L0 - 600 - 960 MHz



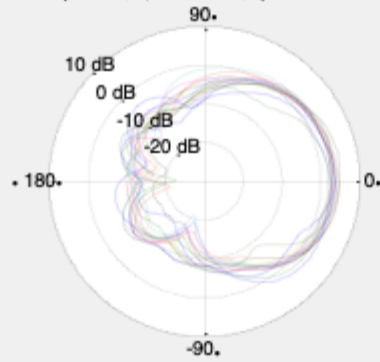
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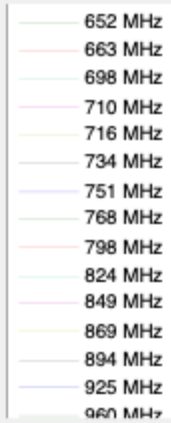
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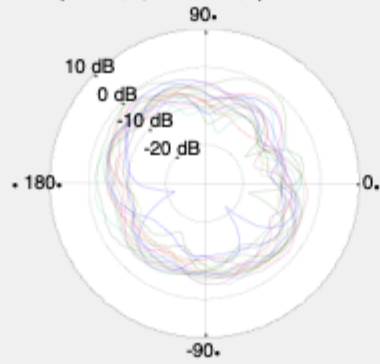
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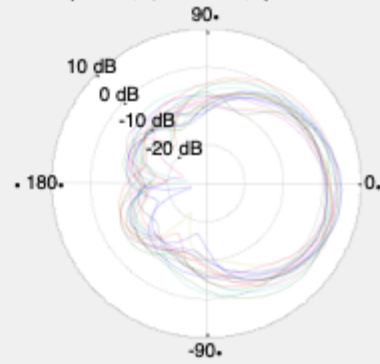
SUB6G-L0 - 600 - 960 MHz



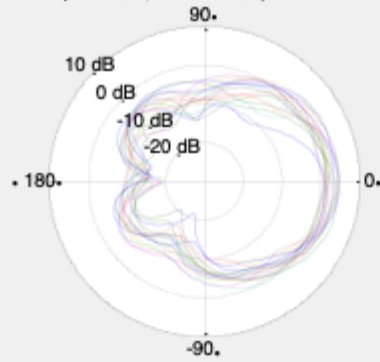
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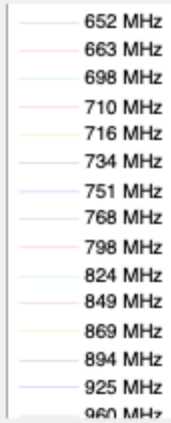
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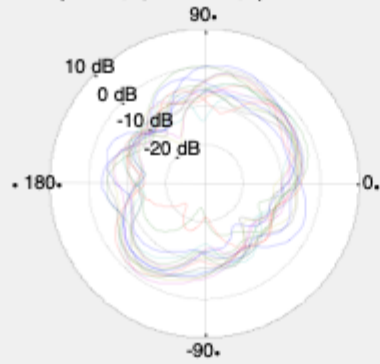
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90 °X



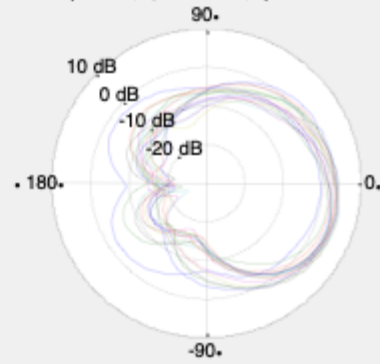
SUB6G-L0 - 600 - 960 MHz



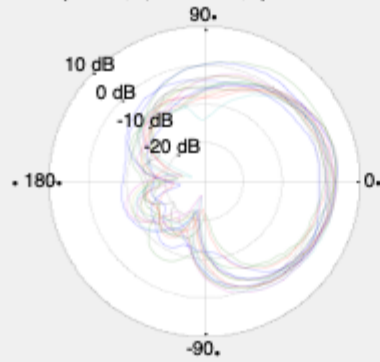
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ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0 °X



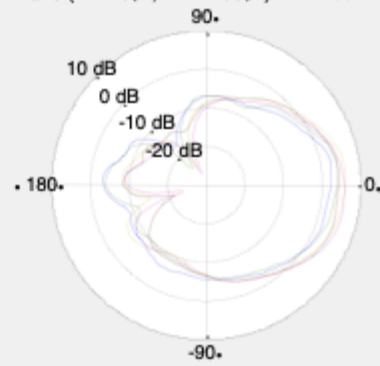
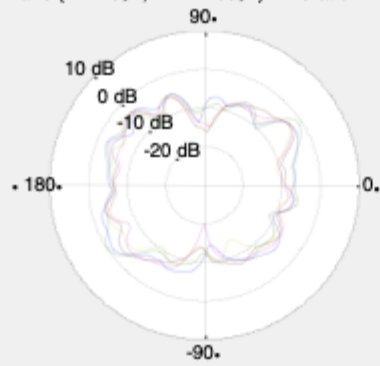
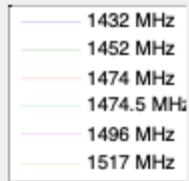
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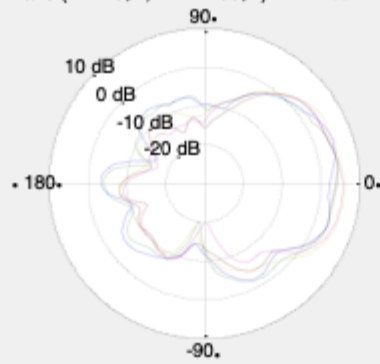
SUB6G-GPS Band - 1000 - 1600 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



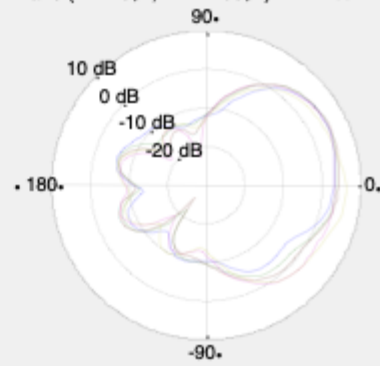
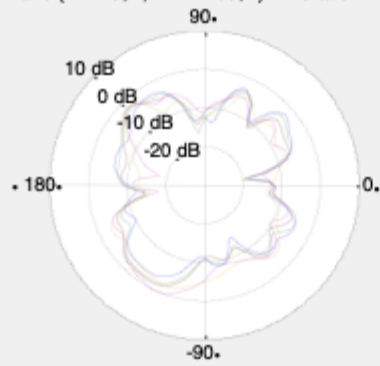
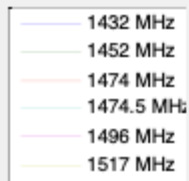
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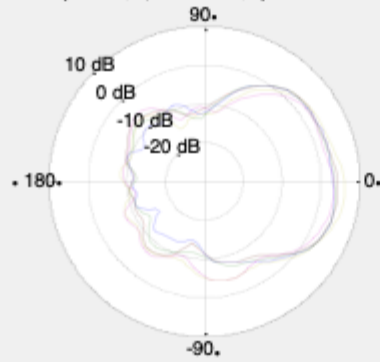
SUB6G-GPS Band - 1000 - 1600 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



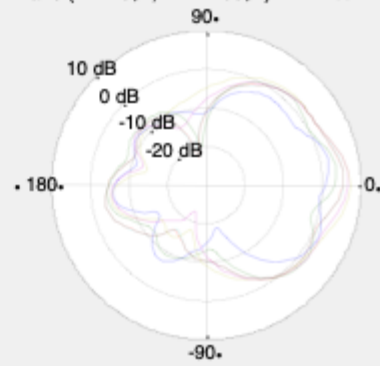
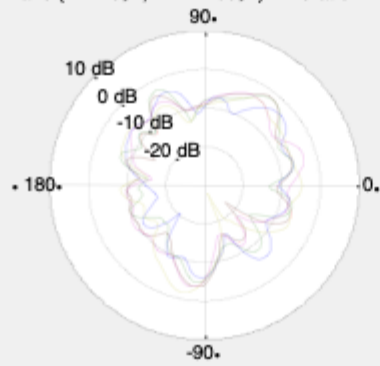
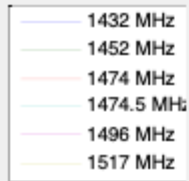
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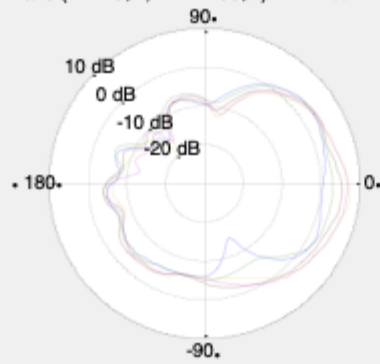
SUB6G-GPS Band - 1000 - 1600 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



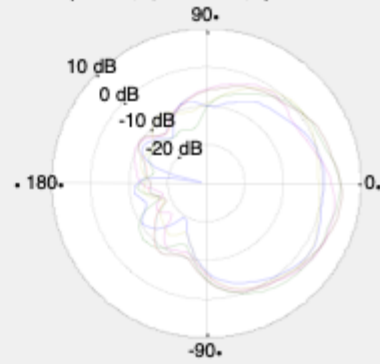
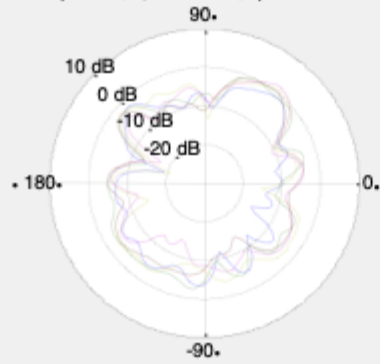
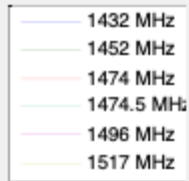
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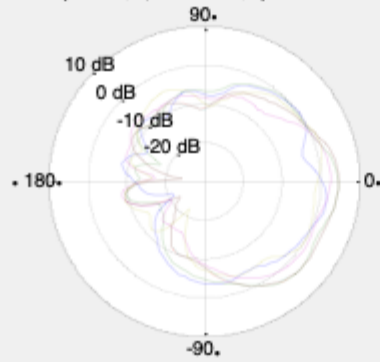
SUB6G-GPS Band - 1000 - 1600 MHz

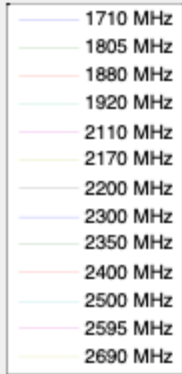
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X

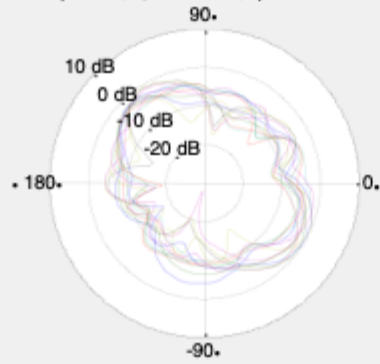


YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X

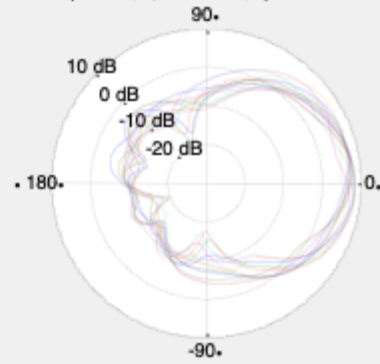




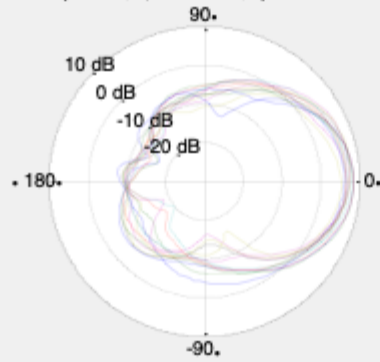
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90 °X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0 °X



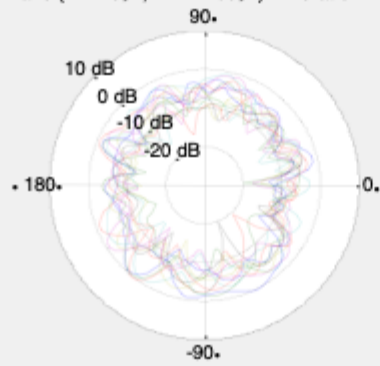
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90 °X



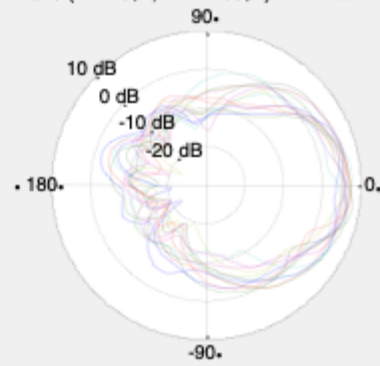
SUB6G-II3 Band - 1690 - 2690 MHz



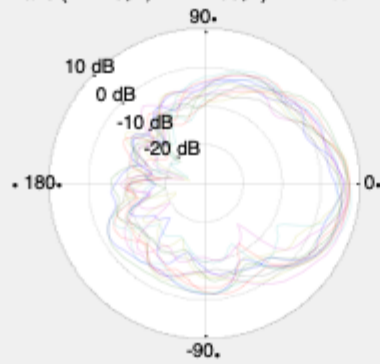
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90 °X



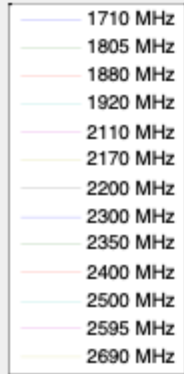
ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0 °X



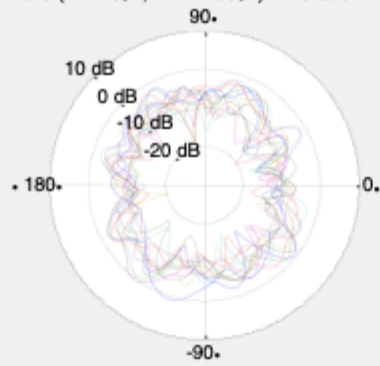
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90 °X



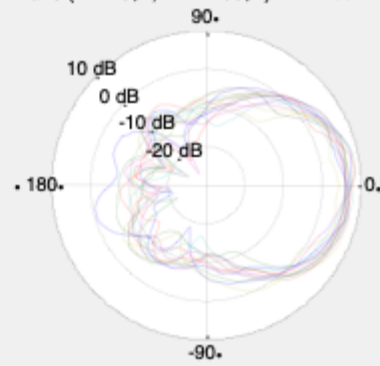
SUB6G-II3 Band - 1690 - 2690 MHz



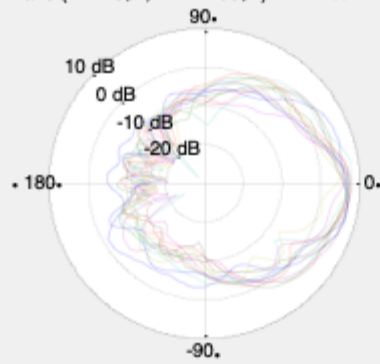
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90 °X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0 °X



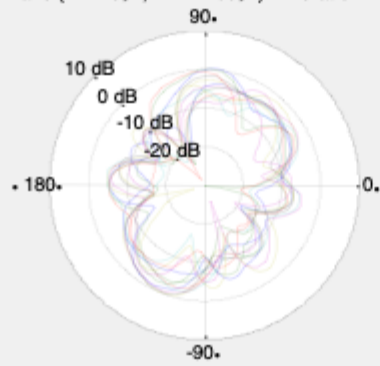
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90 °X



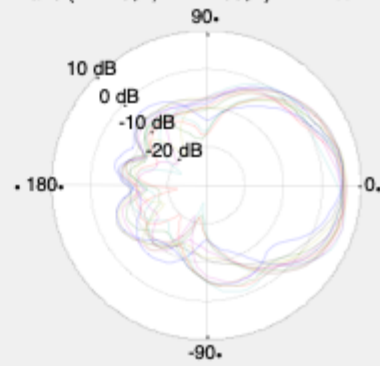
SUB6G-H3 - 1690 - 2690 MHz



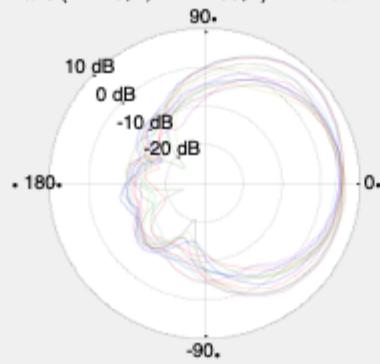
XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90 °X



ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0 °X



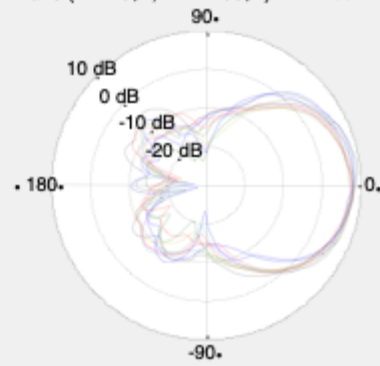
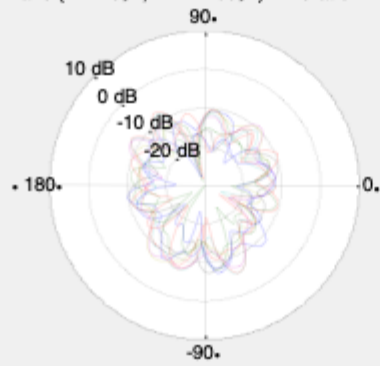
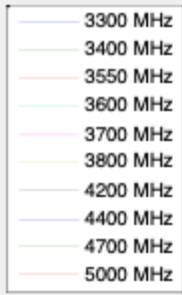
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90 °X



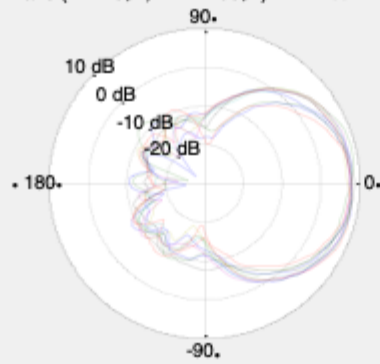
SUB6G-SHF-3 Band - 2900 - 5000 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



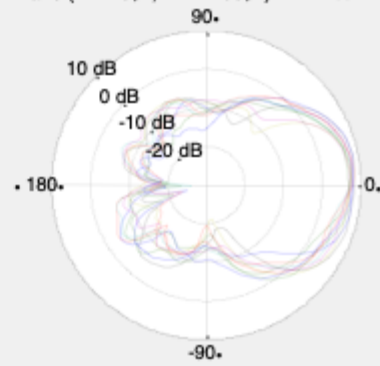
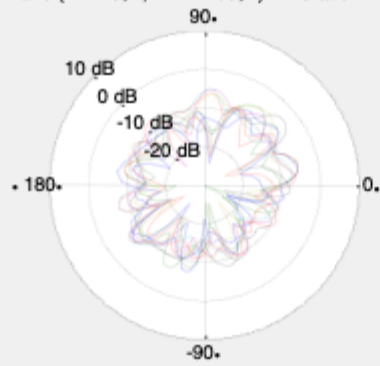
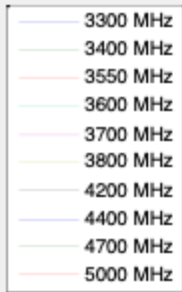
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



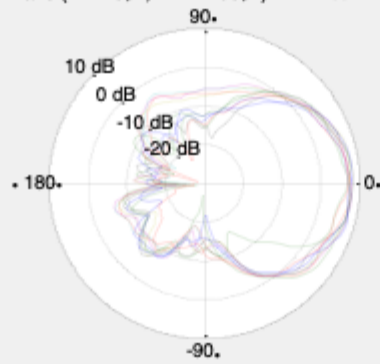
SUB6G-SHF-3 Band - 2900 - 5000 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



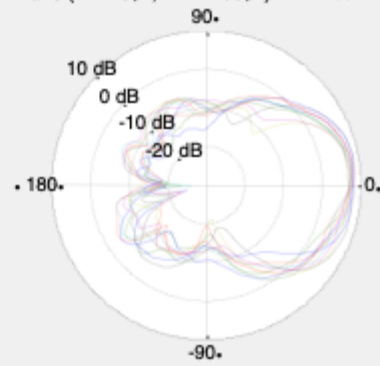
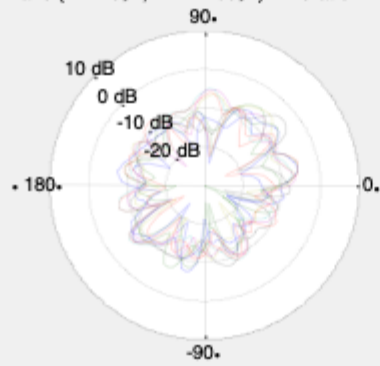
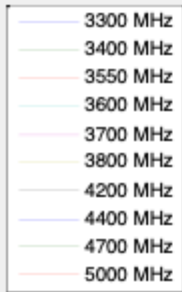
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



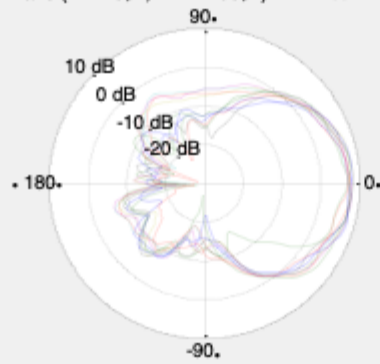
SUB6G-SHF-3 Band - 2900 - 5000 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



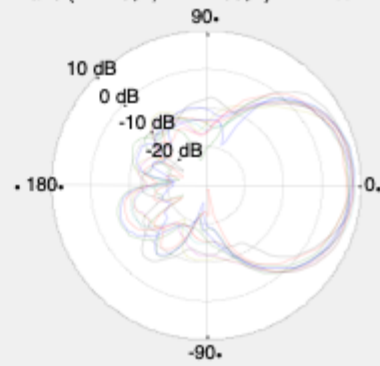
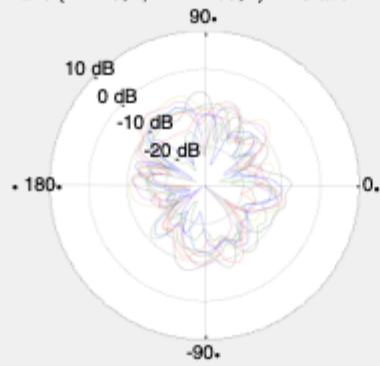
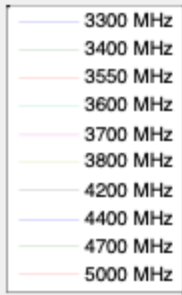
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



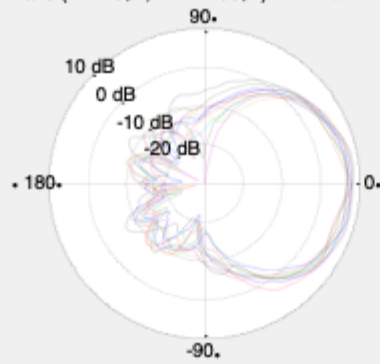
SUB6G-SHF-3 Band - 2900 - 5000 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



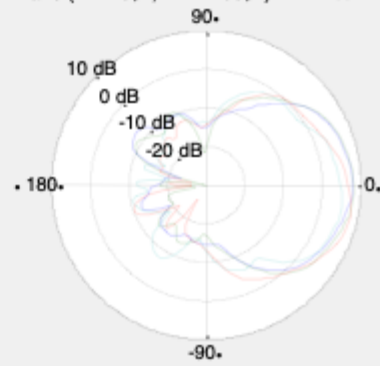
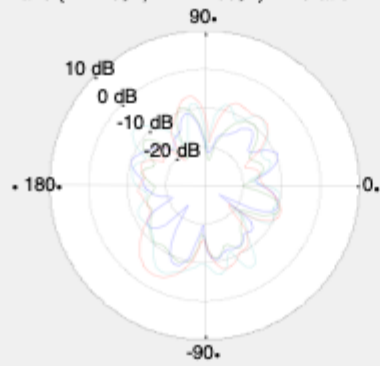
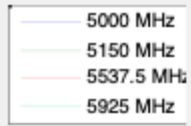
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



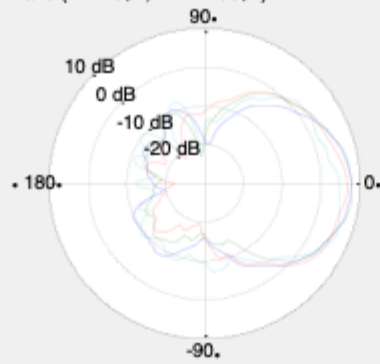
5G Band - 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



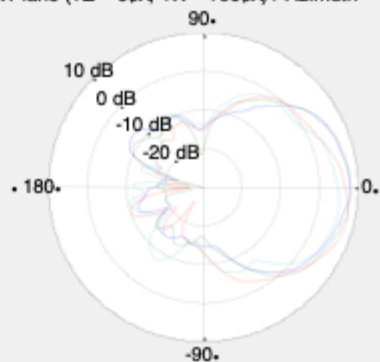
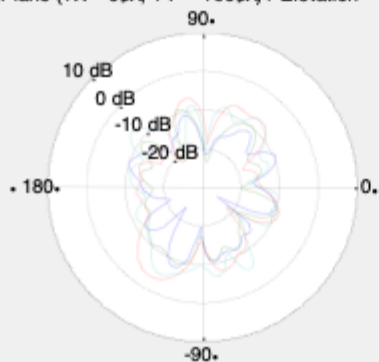
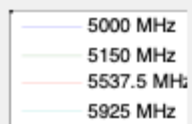
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



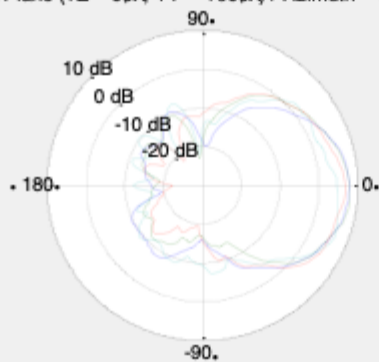
5G Band - 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90°X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0°X



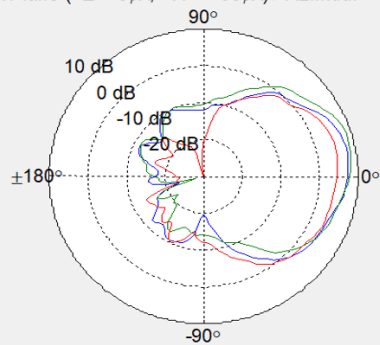
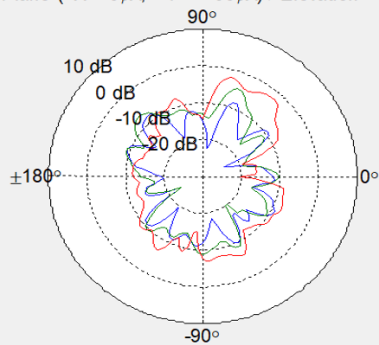
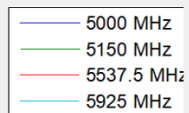
YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90°X



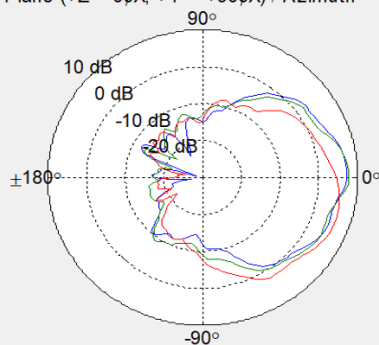
5G Band = 4900 - 5975 MHz

XY Plane (+X = 0°ϕX, +Y = +90°ϕX) / Elevation = 90°ϕX

ZX Plane (+Z = 0°ϕX, +X = +90°ϕX) / Azimuth = 0°ϕX



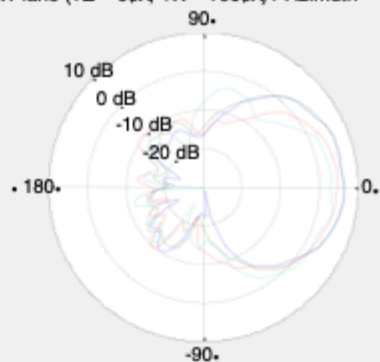
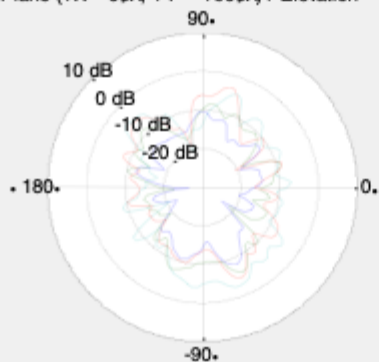
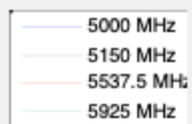
YZ Plane (+Z = 0°ϕX, +Y = +90°ϕX) / Azimuth = 90°ϕX



5G Band - 4900 - 5975 MHz

XY Plane (+X = 0°X, +Y = +90°X) / Elevation = 90 °X

ZX Plane (+Z = 0°X, +X = +90°X) / Azimuth = 0 °X



YZ Plane (+Z = 0°X, +Y = +90°X) / Azimuth = 90 °X

