Antenna spec.

Polarization

Theta Frequency (MHz)

Theta Angle (°	0		15		30		45		60		75		90		105		120		135		150		165		180
Phi Angle (°	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	Power	(dBm	(dBm)
0	-24.56		-24.2		-27.83		-18.26		-16.14		-15.86		-14.63		-19.89		-15.38		-12.77		-13.74		-17.96		-17.24
15	-26.34		-23.57		-26.89		-19.57		-16.73		-15.84		-13.8		-18.7		-19.2		-13.37		-14.62		-17.64		-19.35
30	-29.39		-22.98		-25.42		-22.18		-17.16		-16.09		-13.58		-16.62		-22.92		-14.97		-15.88		-17.53		-23.01
45	-35.22		-23.09		-24.24		-23.31		-17.12		-16.92		-13.84		-14.67		-19.66		-17.73		-17.5		-16.68		-30.81
60	-63.28		-22.89		-23.03		-23.6		-16.79		-17.47		-15.41		-13.25		-16.25		-21.92		-18.68		-16.3		-36.45
75	-34.82		-23.91		-22.94		-23.38		-16.43		-17.66		-17.62		-12.32		-14.57		-26.43		-19.38		-15.87		-24.75
90	-29.21		-24.9		-23.81		-22.64		-16.44		-17.86		-19.06		-12.13		-13.7		-25.49		-19.98		-15.02		-20.29
105	-26.23		-26.5		-23.81		-22.51		-16.48		-17.74		-20.27		-12.35		-13.37		-23.41		-20.04		-14.78		-17.79
120	-24.49		-27.97		-22.58		-23.23		-17.54		-16.07		-19.37		-12.55		-13.68		-22.07		-20.26		-14.66		-16.33
135	-23.56		-29.37		-22.57		-23.29		-18.3		-15.69		-18.2		-13		-14.05		-20.54		-20.01		-14.78		-15.62
150	-23.28		-30.79		-22.48		-23.84		-19.06		-15.31		-17.1		-13.68		-14.88		-20.46		-20.12		-15.21		-15.52
165	-23.59		-27.86		-21.46		-24.15		-19.46		-15.51		-16.33		-14.24		-15.25		-20.29		-20.28		-15.8		-16.04
180	-24.56		-27.6		-20.45		-24.4		-20.12		-15.7		-16.15		-14.66		-15.47		-19.95		-20.26		-16.65		-17.24
195	-26.34		-26.26		-20.61		-24.22		-19.87		-15.51		-15.64		-15.1		-15.5		-18.56		-20.77		-16.53		-19.35
210	-29.39		-24.02		-20.31		-23.11		-19.75		-16.23		-15.14		-15.83		-15.69		-17.55		-21.22		-17		-23.01
225	-35.22		-22.12		-20.4		-23.95		-19.15		-16.32		-14.26		-16.89		-15.84		-15.85		-21.8		-16.98		-30.81
240	-63.28		-20.54		-20.22		-23.7		-19.34		-17.16		-13.29		-17.37		-16.04		-14.52		-22.43		-17.81		-36.45
255	-34.82		-19.39		-19.71		-22.52		-19.41		-16.39		-12.82		-17.72		-15.62		-14.13		-22.5		-18.54		-24.75
270	-29.21		-23.71		-19.31		-22.12		-18.93		-16.61		-12.85		-18.54		-15.25		-12.58		-23.31		-19.97		-20.29
285	-26.23		-25.94		-18.99		-21.02		-18.74		-17.04		-13.03		-18.81		-15.46		-11.81		-23.18		-21.01		-17.79
300	-24.49		-27.41		-18.1		-18.82		-18.75		-18.06		-13.5		-18.58		-16.05		-12.08		-21.6		-21.18		-16.33
315	-23.56		-32.61		-18.9		-17.6		-18.39		-19.57		-14.72		-17.94		-17.83		-12.78		-19.46		-23.66		-15.62
330	-23.28		-34.52		-20.64		-17.93		-18.31		-18.31		-15.04		-17.19		-19.76		-12.3		-16.26		-37.3		-15.52
345	-23.59		-27.86		-28.75		-18.98		-17.39		-17.36		-15.53		-16.6		-19.71		-13.75		-15.87		-27.73		-16.04
360	-24.56		-24.2		-27.83		-18.26		-16.14		-15.86		-14.63		-19.89		-15.38		-12.77		-13.74		-17.96		-17.24

Phi Frequency (MHz)

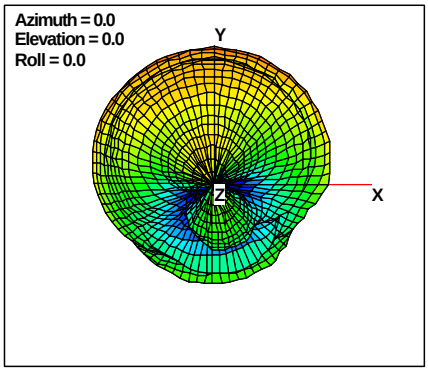
Theta Angle (°	0	15	30	45	60	75	90	105	120	135	150	165	180
Phi Angle (°	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm)
0	-29.21	-31.31	-40.41	-27.33	-26.18	-23.18	-25.25	-25.04	-19.41	-20.89	-22.5	-24.66	-20.29
15	-26.23	-33.14	-39.54	-26.34	-24.64	-21.06	-25.82	-22.76	-20.5	-23.95	-23.15	-24.71	-17.79
30	-24.49	-33.62	-34.8	-25.77	-22.79	-21.29	-22.03	-21.29	-20.55	-22.56	-25.71	-22.06	-16.33
45	-23.56	-36.84	-34.42	-27.23	-24.01	-21.8	-23.7	-20.55	-20.12	-23.58	-31.93	-22.51	-15.62
60	-23.28	-36.3	-34.79	-25.53	-27.26	-22.84	-23.76	-20.08	-19.74	-26.24	-30.66	-21.13	-15.52
75	-23.59	-36.24	-38.49	-30.11	-32.23	-23.06	-23.42	-20.12	-20.06	-29.65	-26.62	-19.77	-16.04
90	-24.56	-34.24	-39.02	-30.41	-32.6	-25.92	-23.61	-20.21	-20.69	-40.49	-24.66	-18.73	-17.24
105	-26.34	-31.44	-38.22	-32.26	-31.29	-26.35	-23.37	-21.09	-23.14	-39.36	-23.2	-18.05	-19.35
120	-29.39	-29.26	-39.04	-30.57	-29.75	-28.13	-24.05	-20.14	-21.18	-31.67	-22	-15.58	-23.01
135	-35.22	-33.48	-31.36	-25.96	-29.84	-28.04	-24.33	-19.67	-22.45	-28.71	-21.84	-15.45	-30.81
150	-63.28	-28.86	-36.99	-27.13	-28.08	-34.9	-24.79	-19.23	-23.71	-26.99	-21.08	-16.23	-36.45
165	-34.82	-27.92	-39.3	-25.54	-27.39	-33.51	-23.32	-21.41	-26.1	-29.31	-19.85	-17.48	-24.75
180	-29.21	-26.96	-34.02	-28.25	-30.47	-32.99	-25.54	-22.3	-24.56	-33.27	-21.87	-19.1	-20.29
195	-26.23	-28.15	-32.23	-29.47	-35.07	-32.64	-28.55	-24.55	-23.79	-39.6	-24.42	-19.42	-17.79
210	-24.49	-29.4	-26.69	-29.61	-34.59	-34.1	-30.74	-25.65	-22.52	-45.12	-26.36	-20.09	-16.33
225	-23.56	-30.18	-27.56	-30.03	-35.85	-30.36	-32.33	-21.72	-22.36	-46.8	-27.79	-20.48	-15.62
240	-23.28	-31.6	-25.93	-30.26	-38.86	-29.96	-31.99	-24.66	-22.16	-52.39	-31.41	-23.72	-15.52
255	-23.59	-31.7	-29.96	-30.92	-28.24	-27.12	-27.21	-24.34	-22.92	-40.49	-32.28	-28.07	-16.04
270	-24.56	-32.42	-31.72	-31.46	-29.21	-26.74	-27.51	-27.14	-24.27	-33.24	-36.82	-30.16	-17.24
285	-26.34	-30.18	-33.62	-31.6	-29.32	-29.54	-27.95	-24.27	-27.36	-32.8	-32.88	-26.73	-19.35
300	-29.39	-25.45	-37.26	-34.09	-30.13	-28.39	-30.68	-28.46	-26.04	-32.25	-29.73	-27.94	-23.01
315	-35.22	-23.43	-39.93	-36.64	-31.85	-27.84	-33.38	-26.62	-27.2	-30.93	-27.93	-26.52	-30.81
330	-63.28	-26.06	-34.27	-36.7	-35.17	-30.4	-39.94	-24.92	-26.34	-36.08	-26.67	-22.96	-36.45
345	-34.82	-25.39	-32.13	-36.38	-44.75	-36.59	-38.79	-24.85	-27.24	-32.88	-25.26	-21.81	-24.75
360	-29.21	-31.31	-40.41	-27.33	-26.18	-23.18	-25.25	-25.04	-19.41	-20.89	-22.5	-24.66	-20.29

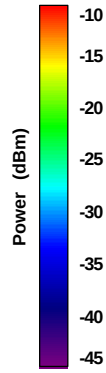
Total Frequency (MHz)

Theta Angle (°	0	15	30	45	60	75	90	105	120	135	150	165	180
Phi Angle (°	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm	Power (dBm)
0	-23.28	-23.43	-27.6	-17.75	-15.73	-15.12	-14.27	-18.73	-13.93	-12.15	-13.19	-17.12	-15.49
15	-23.28	-23.12	-26.66	-18.74	-16.08	-14.7	-13.54	-17.26	-16.79	-13.01	-14.05	-16.86	-15.49
30	-23.28	-22.62	-24.94	-20.6	-16.11	-14.94	-13	-15.34	-18.56	-14.27	-15.45	-16.22	-15.49
45	-23.28	-22.91	-23.84	-21.83	-16.31	-15.69	-13.41	-13.67	-16.87	-16.73	-17.35	-15.67	-15.49
60	-23.28	-22.7	-22.75	-21.45	-16.42	-16.36	-14.82	-12.43	-14.64	-20.55	-18.41	-15.06	-15.49
75	-23.28	-23.67	-22.82	-22.54	-16.32	-16.56	-16.61	-11.66	-13.49	-24.74	-18.63	-14.39	-15.49
90	-23.28	-24.42	-23.68	-21.97	-16.34	-17.23	-17.75	-11.5	-12.91	-25.36	-18.71	-13.48	-15.49
105	-23.28	-25.29	-23.66	-22.07	-16.34	-17.18	-18.54	-11.8	-12.94	-23.3	-18.33	-13.11	-15.49
120	-23.28	-25.56	-22.48	-22.49	-17.29	-15.81	-18.09	-11.85	-12.97	-21.62	-18.03	-12.09	-15.49
135	-23.28	-27.94	-22.03	-21.41	-18	-15.44	-17.26	-12.15	-13.46	-19.93	-17.82	-12.09	-15.49
150	-23.28	-26.71	-22.32	-22.17	-18.55	-15.26	-16.41	-12.61	-14.35	-19.59	-17.56	-12.68	-15.49
165	-23.28	-24.88	-21.38	-21.78	-18.81	-15.44	-15.54	-13.48	-14.9	-19.78	-17.05	-13.55	-15.49
180	-23.28	-24.26	-20.26	-22.9	-19.74	-15.62	-15.68	-13.97	-14.96	-19.76	-17.98	-14.7	-15.49
195	-23.28	-24.09	-20.32	-23.08	-19.74	-15.42	-15.42	-14.63	-14.9	-18.52	-19.21	-14.73	-15.49
210	-23.28	-22.91	-19.41	-22.23	-19.61	-16.16	-15.02	-15.4	-14.87	-17.54	-20.06	-15.26	-15.49
225	-23.28	-21.49	-19.63	-23	-19.06	-16.15	-14.19	-15.65	-14.97	-15.85	-20.82	-15.37	-15.49
240	-23.28	-20.21	-19.19	-22.83	-19.29	-16.94	-13.23	-16.63	-15.09	-14.52	-21.92	-16.82	-15.49
255	-23.28	-19.14	-19.32	-21.93	-18.88	-16.04	-12.66	-16.86	-14.88	-14.12	-22.07	-18.08	-15.49
270	-23.28	-23.16	-19.07	-21.65	-18.54	-16.21	-12.7	-17.98	-14.73	-12.55	-23.13	-19.57	-15.49
285	-23.28	-24.55	-18.84	-20.65	-18.38	-16.8	-12.89	-17.72	-15.19	-11.78	-22.73	-19.98	-15.49
300	-23.28	-23.31	-18.04	-18.69	-18.45	-17.67	-13.41	-18.15	-15.64	-12.04	-20.98	-20.35	-15.49
315	-23.28	-22.94	-18.86	-17.54	-18.2	-18.97	-14.66	-17.39	-17.36	-12.71	-18.88	-21.85	-15.49
330	-23.28	-25.48	-20.46	-17.87	-18.22	-18.05	-15.02	-16.52	-18.89	-12.28	-15.88	-22.8	-15.49
345	-23.28	-23.44	-27.1	-18.9	-17.38	-17.31	-15.51	-15.99	-19	-13.69	-15.39	-20.82	-15.49
360	-23.28	-23.43	-27.6	-17.75	-15.73	-15.12	-14.27	-18.73	-13.93	-12.15	-13.19	-17.12	-15.49

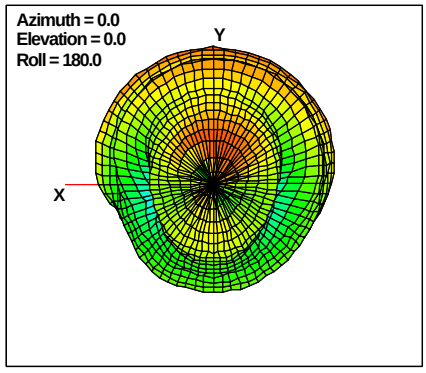
Total	Frequency (MHz)	1900
	Point Values	
	Ant. Port Input Pwr. (dBm)	0
	Tot. Rad. Pwr. (dBm)	-16.1974
	Peak EIRP (dBm)	-11.5048
	Directivity (dBi)	4.69262
	Efficiency (dB)	-16.1974
	Efficiency (%)	2.40024
	Gain (dBi)	-11.5048
	NHPRP 屬i/4 (dBm)	-17.0996
	NHPRP 屬i/6 (dBm)	-18.2558
	NHPRP 屬i/8 (dBm)	-19.2475
	Upper Hem. PRP (dBm)	-20.6082
	Lower Hem. PRP (dBm)	-18.1505
	NHPRP4 / TRP Ratio (dB)	-0.90212
	NHPRP4 / TRP Ratio (%)	81.2434
	NHPRP6 / TRP Ratio (dB)	-2.05838
	NHPRP6 / TRP Ratio (%)	62.2533
	NHPRP8 / TRP Ratio (dB)	-3.05001
	NHPRP8 / TRP Ratio (%)	49.5449
	UHPRP / TRP Ratio (dB)	-4.41076
	UHPRP / TRP Ratio (%)	36.2179
	LHPRP / TRP Ratio (dB)	-1.95301
	LHPRP / TRP Ratio (%)	63.7821
	Front/Back Ratio (dB)	4.70459
	Phi BW (?	159
	+ Phi BW (?	66
	- Phi BW (?	93
	Theta BW (?	30
	+ Th. BW (?	20
	- Th. BW (?	10
	Boresight Phi (?	90
	Boresight Th. (?	105
	Maximum Power (dBm)	-11.5048
	Minimum Power (dBm)	-27.9449
	Average Power (dBm)	-16.7372
	Max/Min Ratio (dB)	16.4401
	Max/Avg Ratio (dB)	5.23234
	Min/Avg Ratio (dB)	-11.2078
	Average Gain (dB)	-16.1974
	E-Plane BW (?	34
	+ E-Plane BW (?	23
	- E-Plane BW (?	11
	H-Plane BW (?	56
	+ H-Plane BW (?	20
	- H-Plane BW (?	36

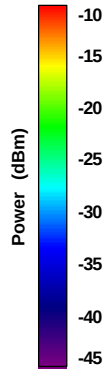
Theta Polarization EIRP Top View



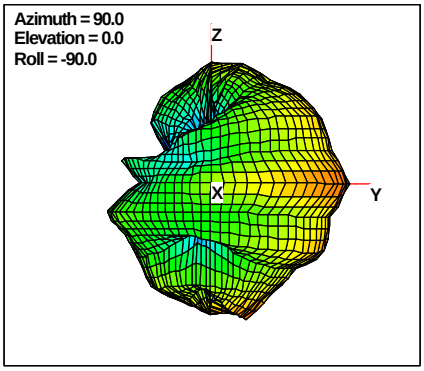


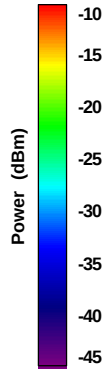
Theta Polarization EIRP Bottom View



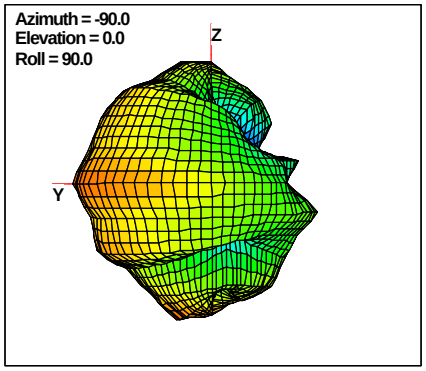


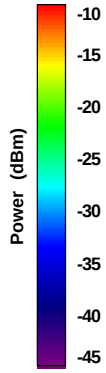
Theta Polarization EIRP Left side View



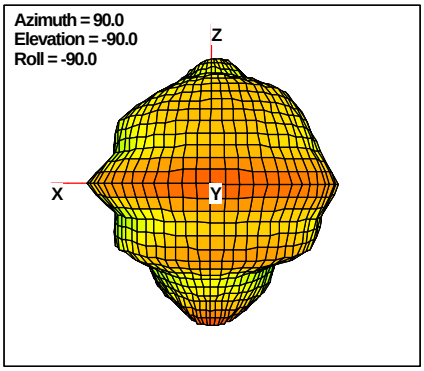


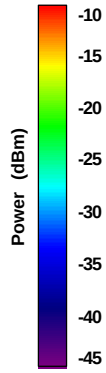
Theta Polarization EIRP Right Side View



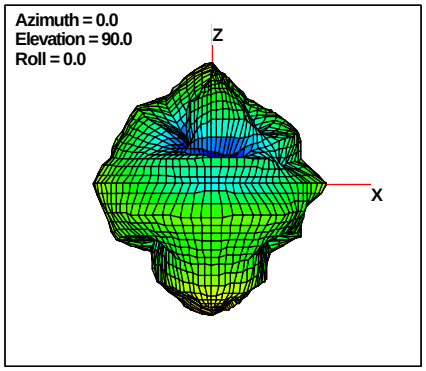


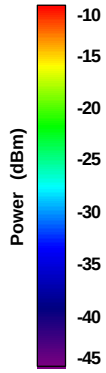
Theta Polarization EIRP Front Face View





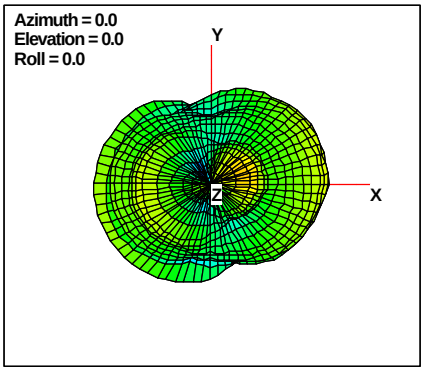
Theta Polarization EIRP Back Face View

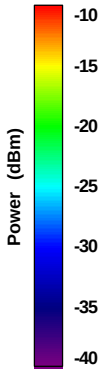




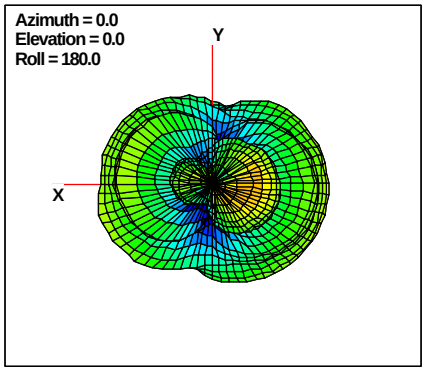
Antenna Pattern Theta Polarization EIRP

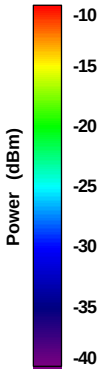
Phi Polarization EIRP Top View



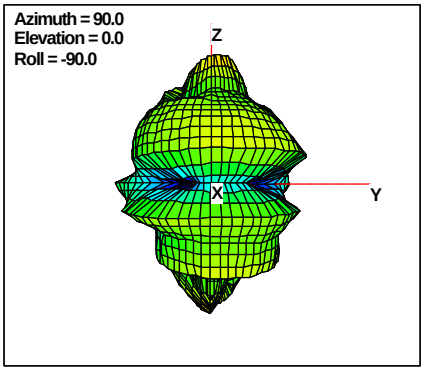


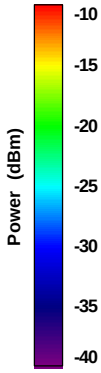
Phi Polarization EIRP Bottom View



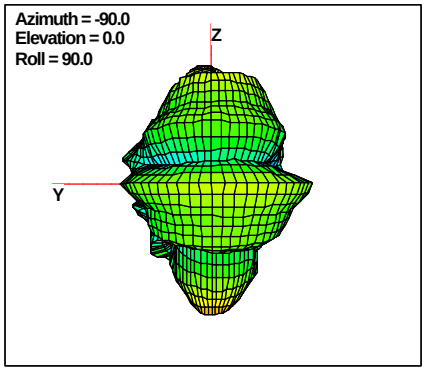


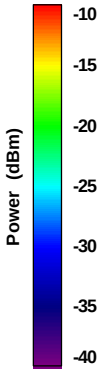
Phi Polarization EIRP Left Side View



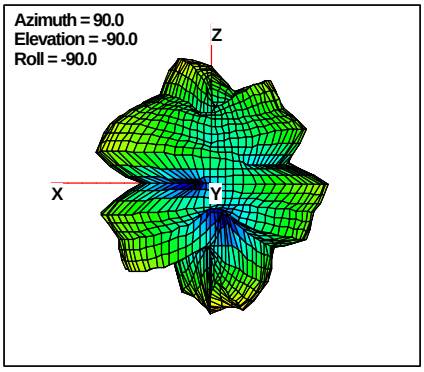


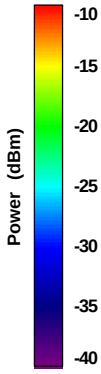
Phi Polarization EIRP Right Side View



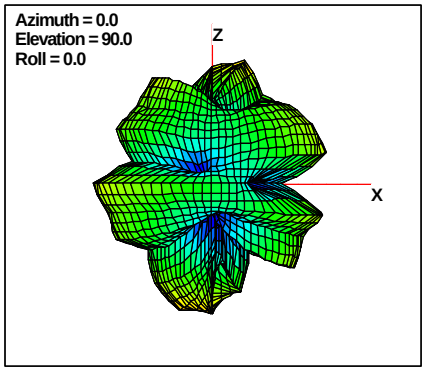


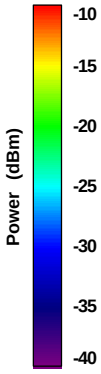
Phi Polarization EIRP Front Face View



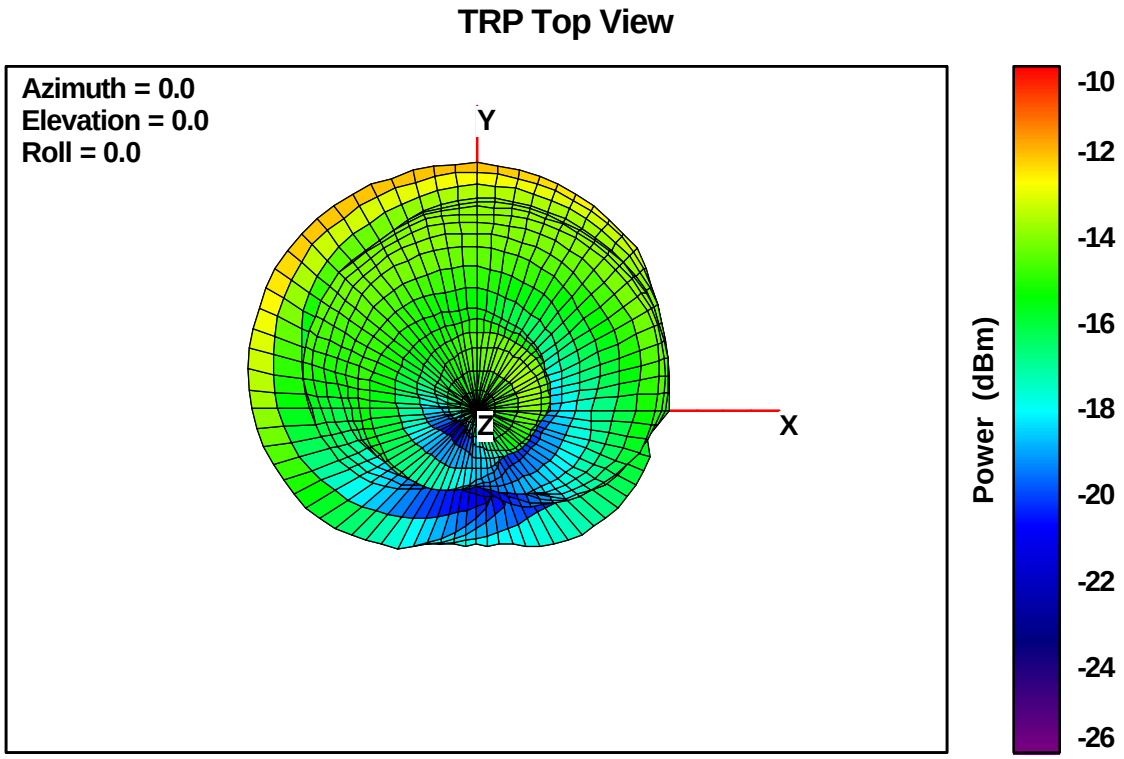


Phi Polarization EIRP Back Face View

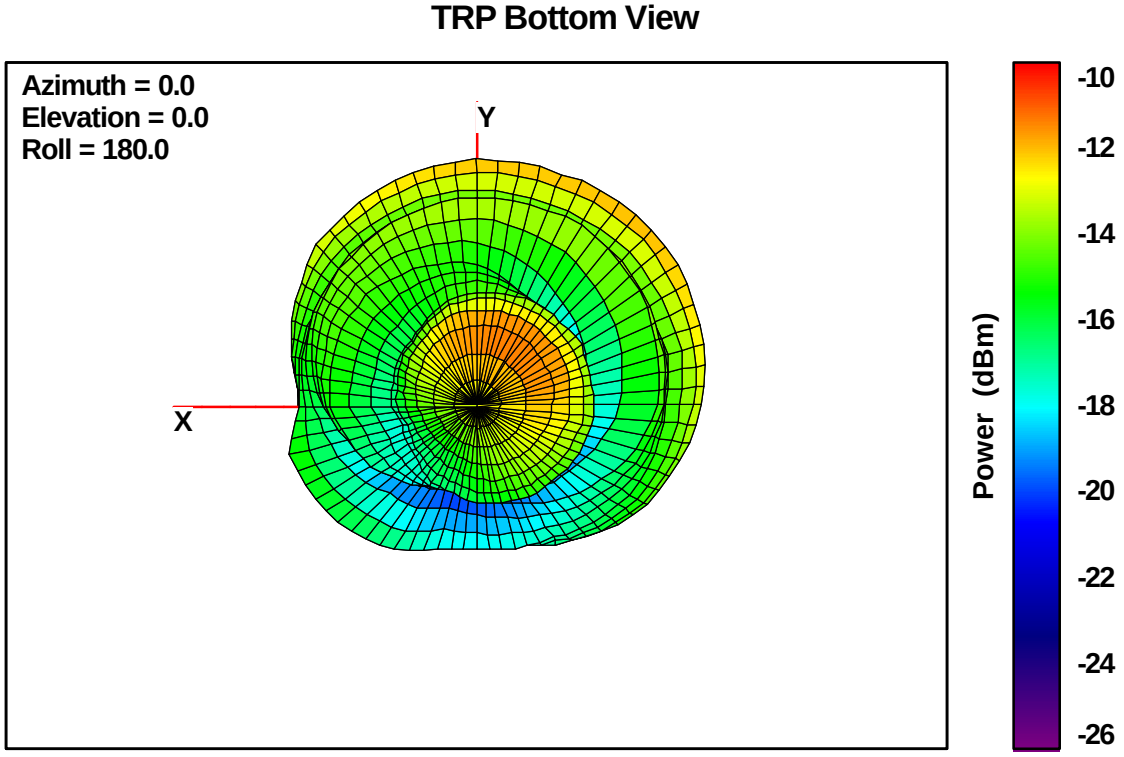




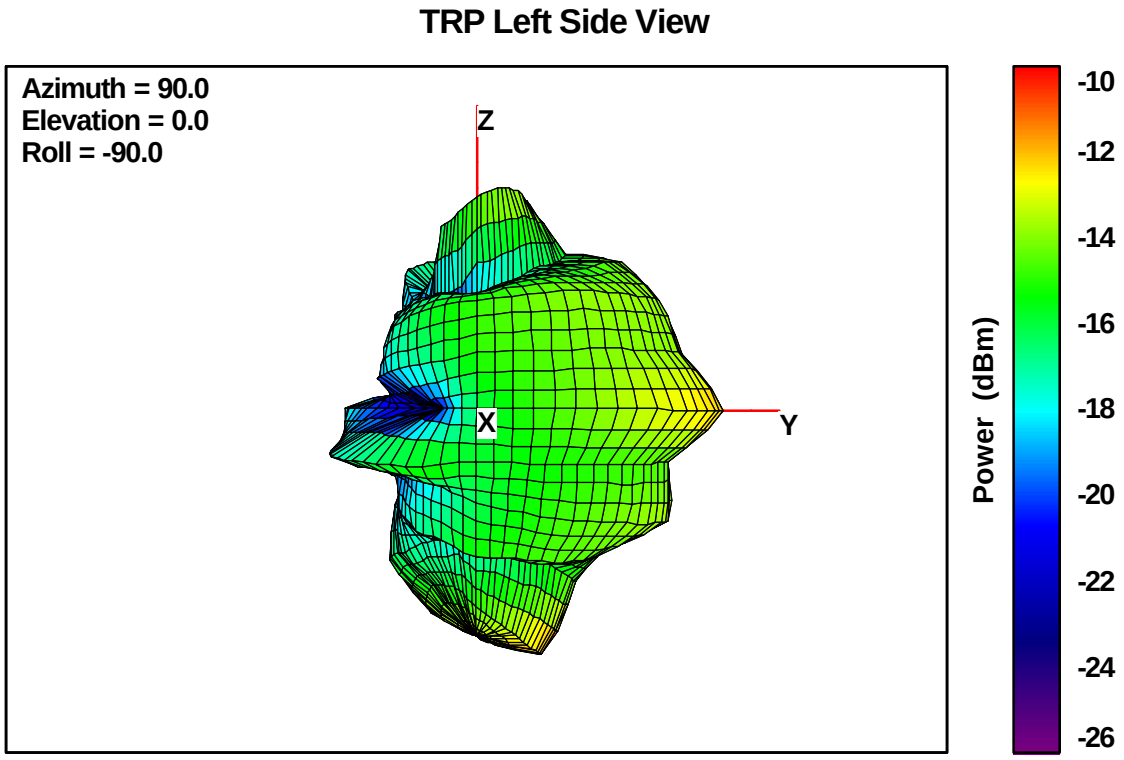
Antenna Pattern Phi Polarization EIRP



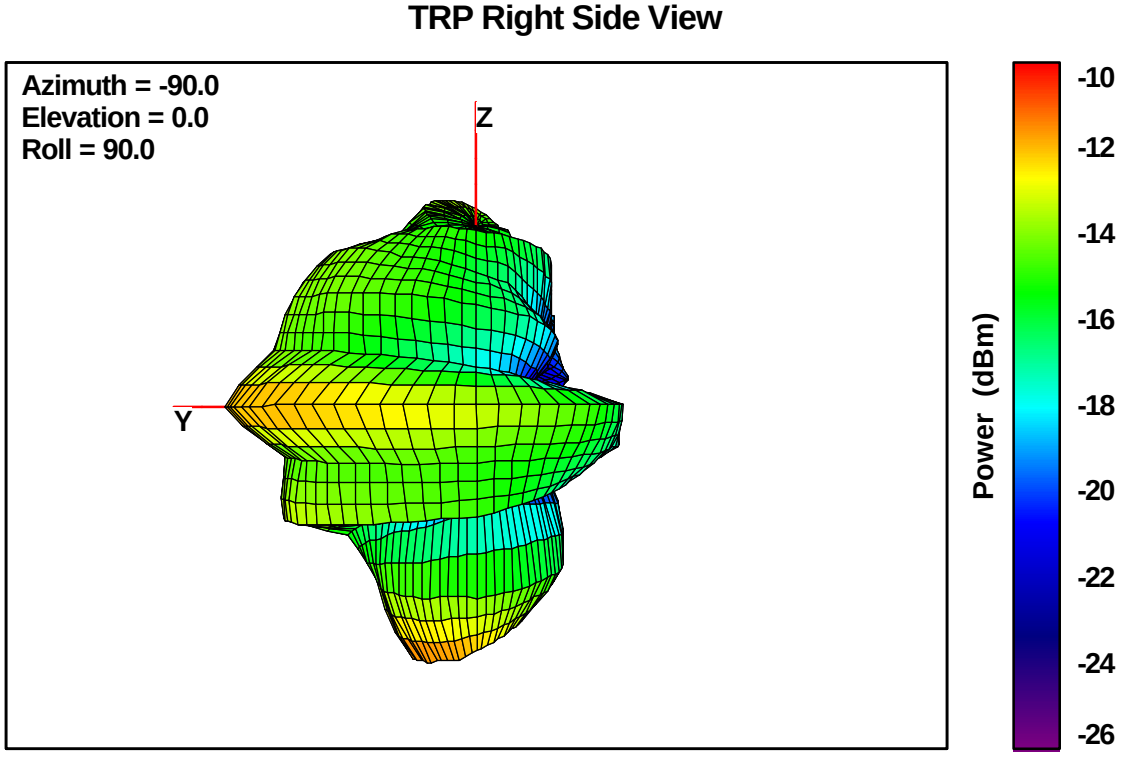
Antenna Pattern TRP, Top View



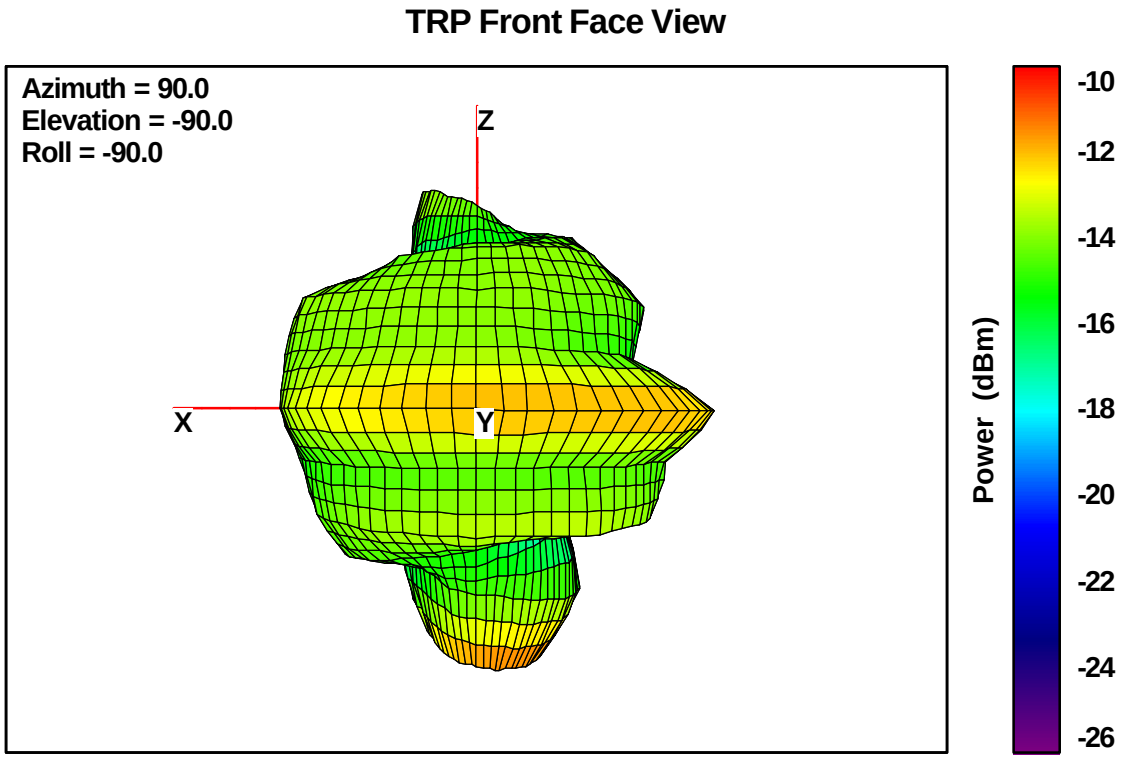
Antenna Pattern TRP, Bottom View



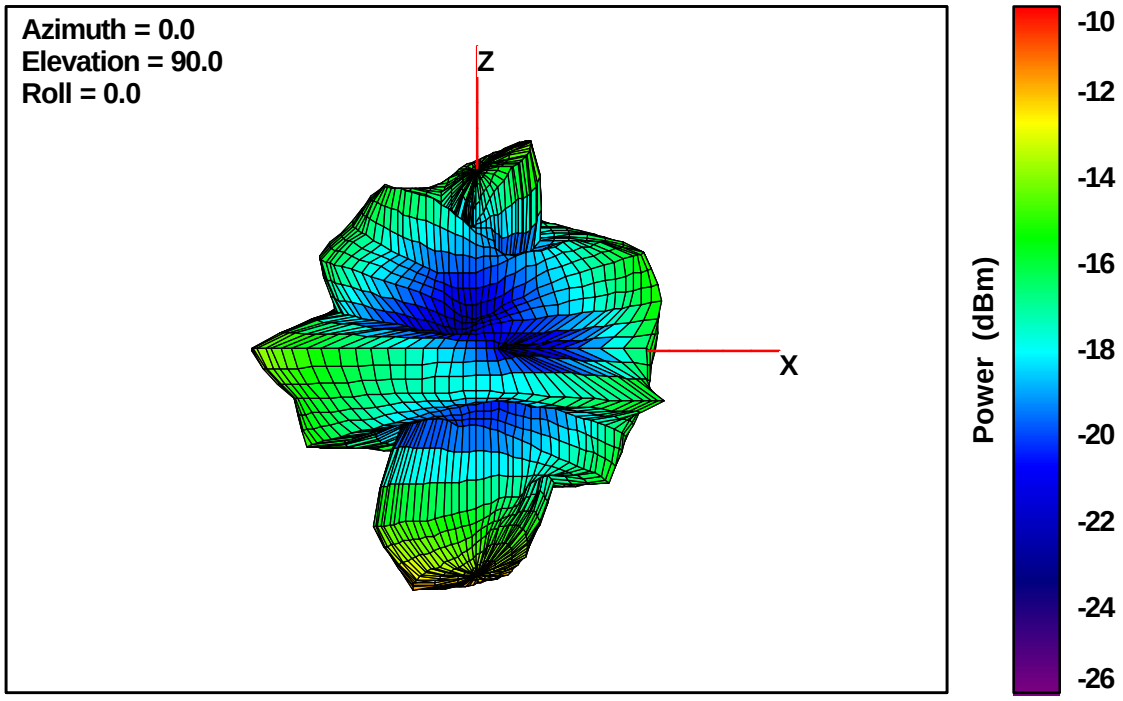
Antenna Pattern TRP, Left Side View



Antenna Pattern TRP, Right View



Antenna Pattern TRP, Front Face View



Antenna Pattern TRP, Back Face View