

GSAA EIRP SPECTRAL DENSITY  
PLOTS – TANGENT PLANE TO  
GSO CO POL WITH  
25.227(A)(1)(I)(A) MASK



# DESCRIPTION

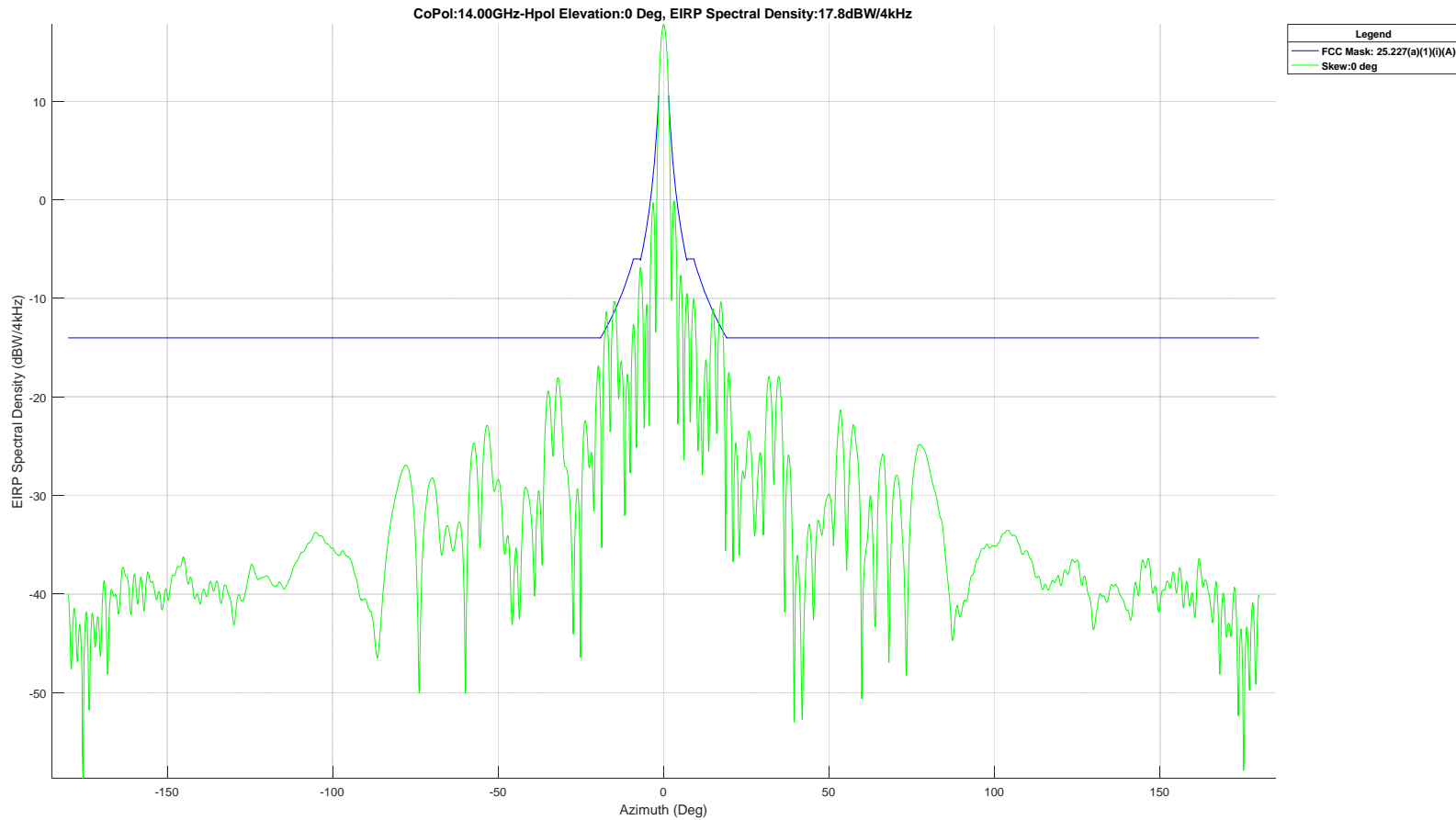
- EIRP Spectral Density plots are at 14.00 GHz, 14.25 GHz and 14.50 GHz for both vertical and horizontal polarization for the following Skew and Elevation Angles (in **BOLD**) as it is mapped to the maximum EIRP Spectral Density in dBW/4kHz in the table on the next page:

# DESCRIPTION

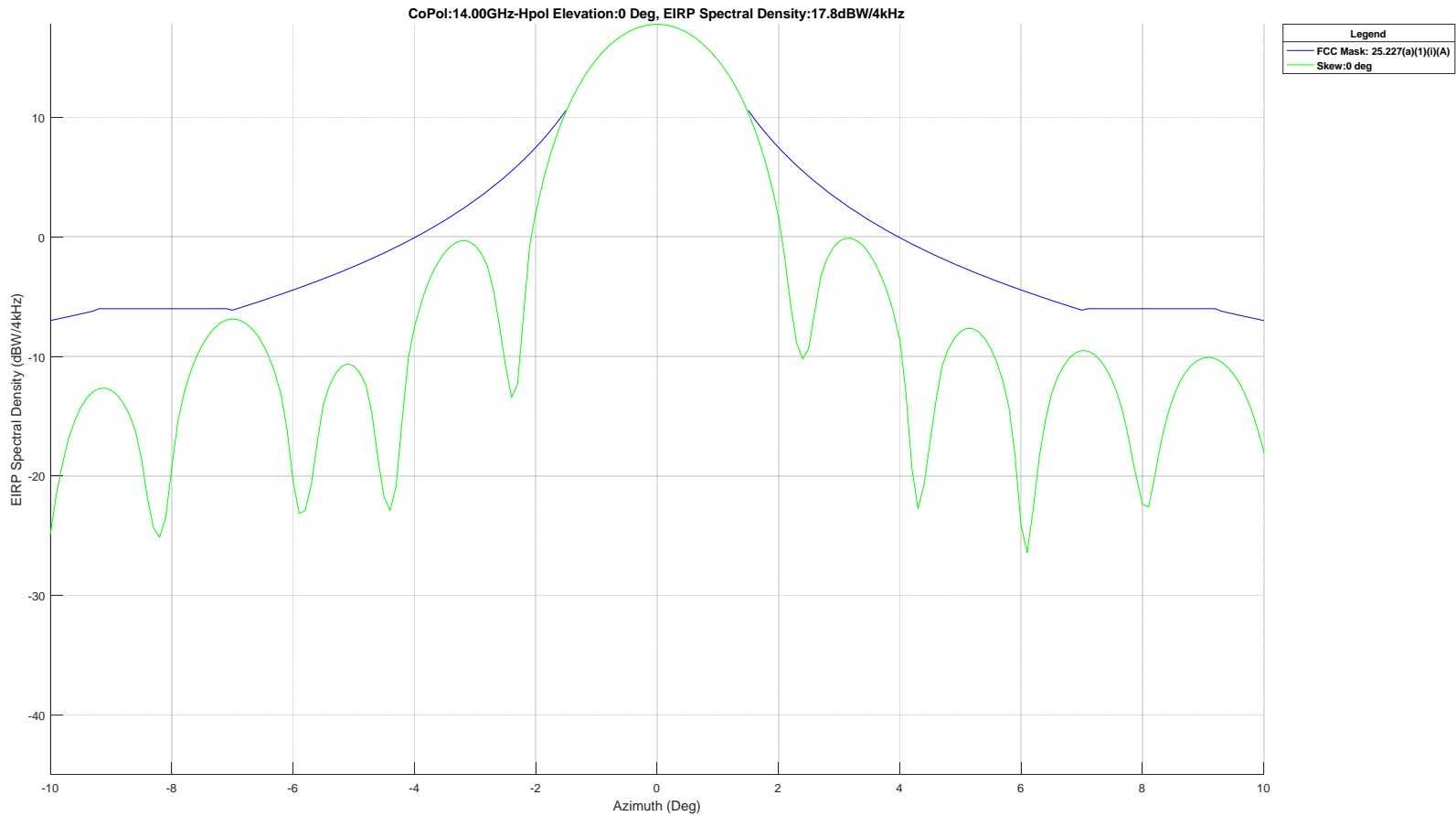
Tangent Plane to GSO Co Pol ESD Plots as they comply to FCC mask 25.227(a)(1)(i)(A)

GSA MAXIMUM EIRP SPECTRAL DENSITY (dBW/4kHz)																			
Elevation[deg]\Skew[deg]	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6	7.3	6.2	5.5
5	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6	7.3	6.2	5.5
10	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6	7.3	6.2	5.5
15	18.3	18.3	18.2	18.1	17.8	17.5	17	16.5	16	15.4	14.7	13.8	12.8	11.8	10.6	9.3	7.9	6.7	5.7
20	18.3	18.3	18.2	18.1	17.8	17.5	17	16.5	16	15.4	14.7	13.8	12.8	11.8	10.6	9.3	7.9	6.7	5.7
25	18.3	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6	7.3	6.2
30	18.3	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6	7.3	6.2
35	18.3	18.3	18.3	18.2	18.1	17.8	17.5	17	16.5	16	15.4	14.7	13.8	12.8	11.8	10.6	9.3	7.9	6.7
40	18.3	18.3	18.3	18.2	18.1	17.8	17.5	17	16.5	16	15.4	14.7	13.8	12.8	11.8	10.6	9.3	7.9	6.7
45	18.3	18.3	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6	7.3
50	18.3	18.3	18.3	18.3	18.2	18.1	17.8	17.5	17	16.5	16	15.4	14.7	13.8	12.8	11.8	10.6	9.3	7.9
55	18.3	18.3	18.3	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2	9.9	8.6
60	18.3	18.3	18.3	18.3	18.3	18.2	18.1	17.8	17.5	17	16.5	16	15.4	14.7	13.8	12.8	11.8	10.6	9.3
65	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7	15	14.3	13.4	12.3	11.2
70	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.2	18.1	17.8	17.5	17.3	16.5	15.7	14.7	13.8	12.8	11.2
75	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.2	18	17.7	17.3	16.8	16.2	15.7
80	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
85	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
90	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3

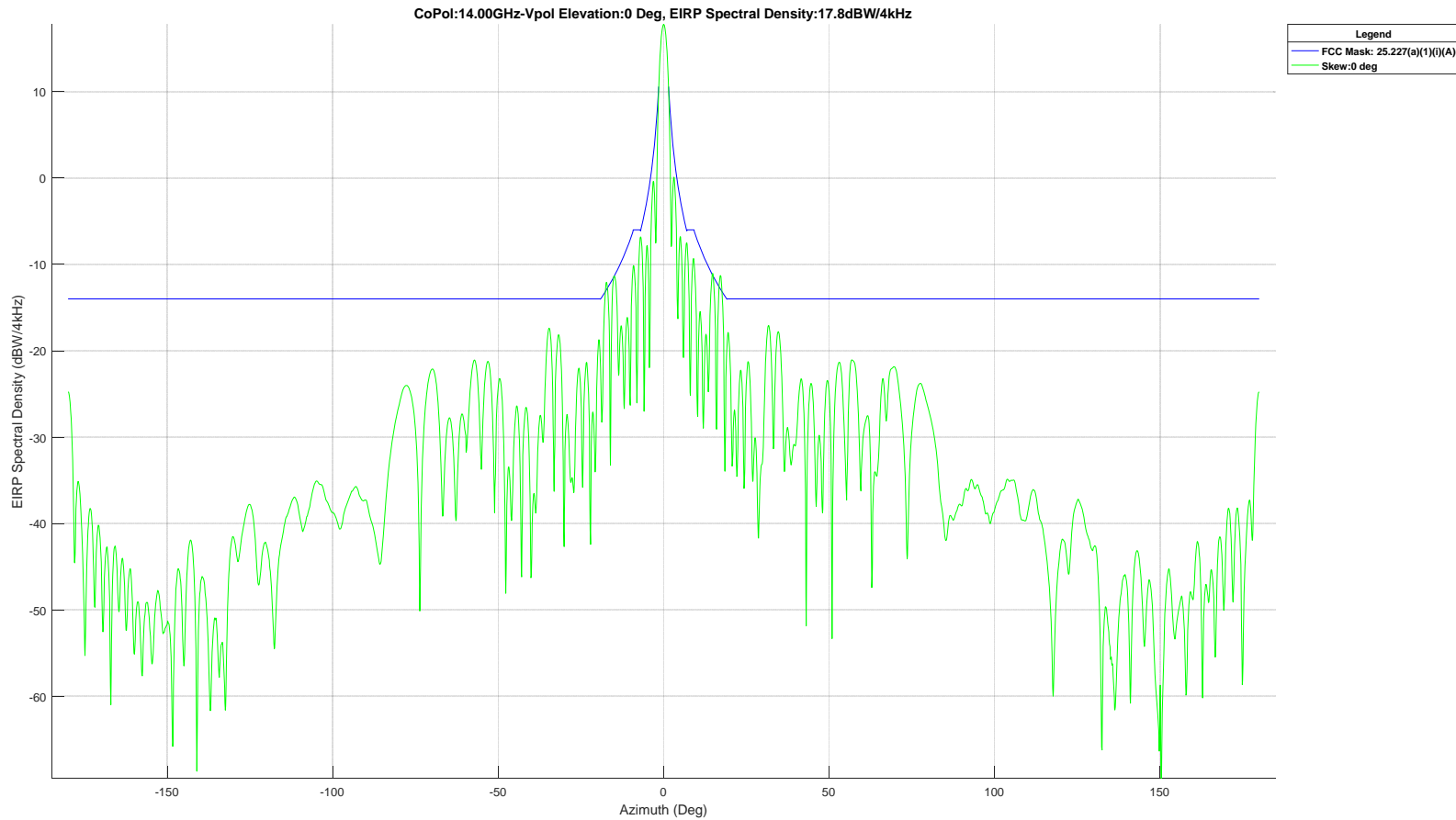
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ



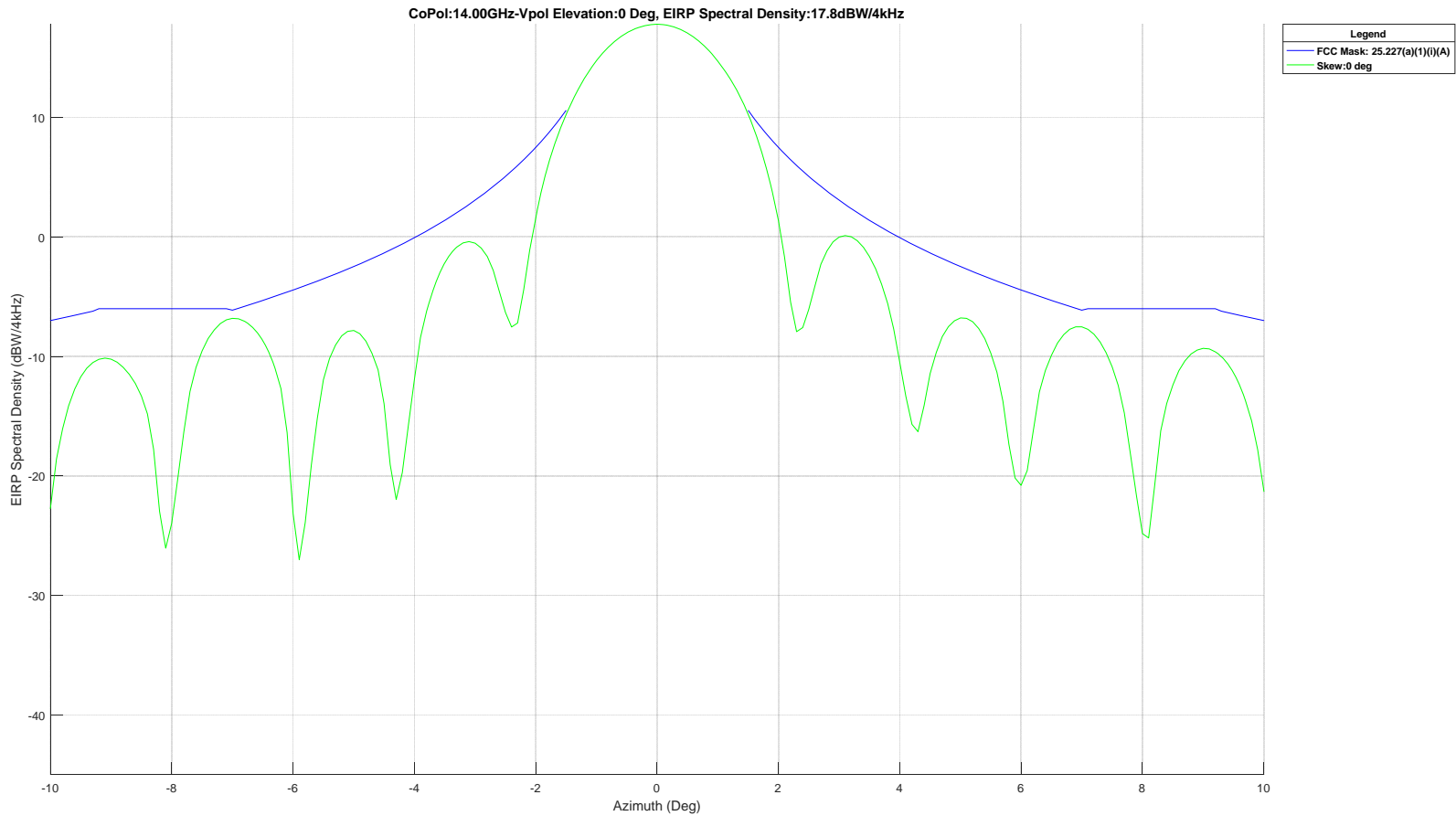
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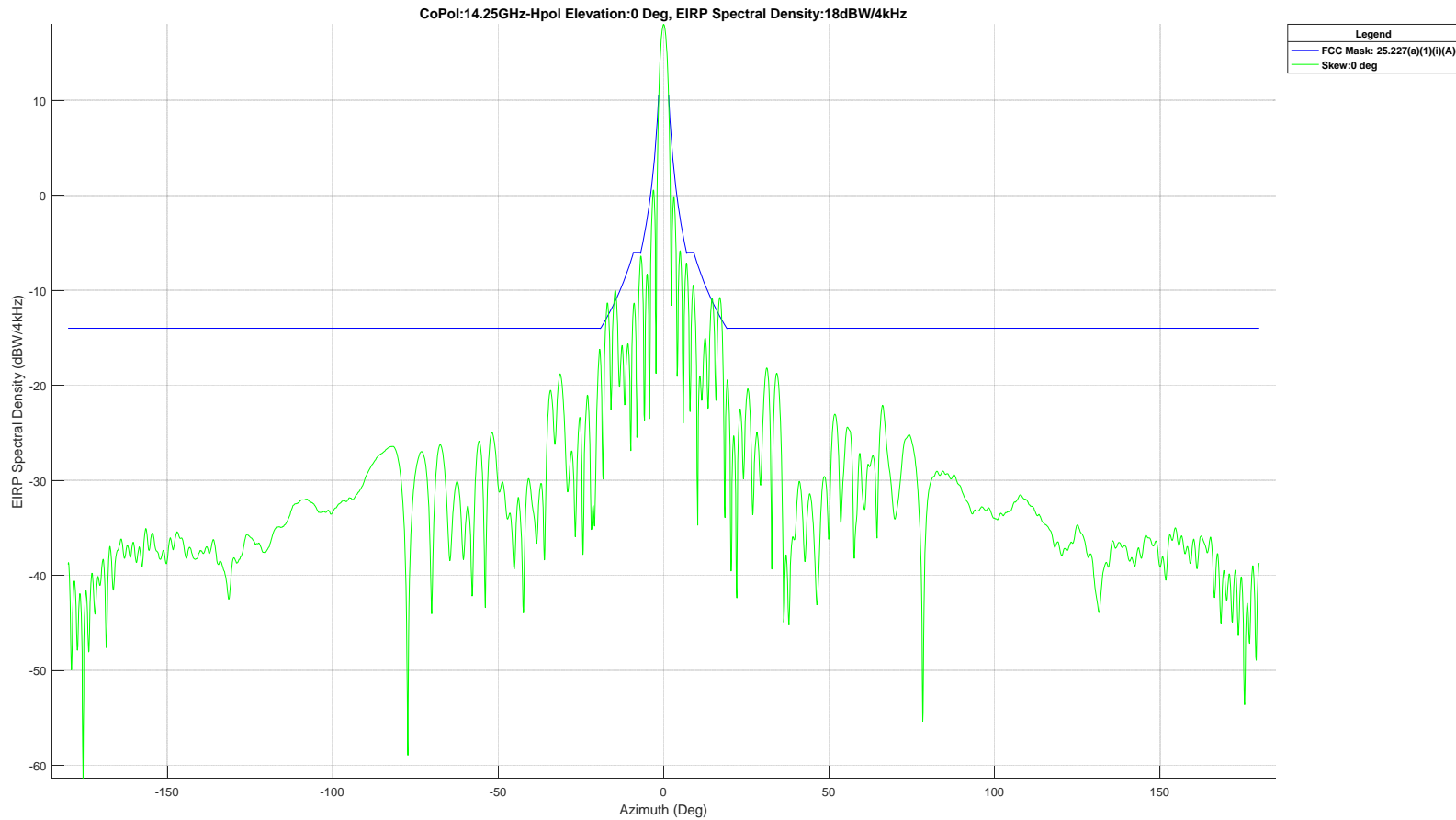
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ



# COPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ

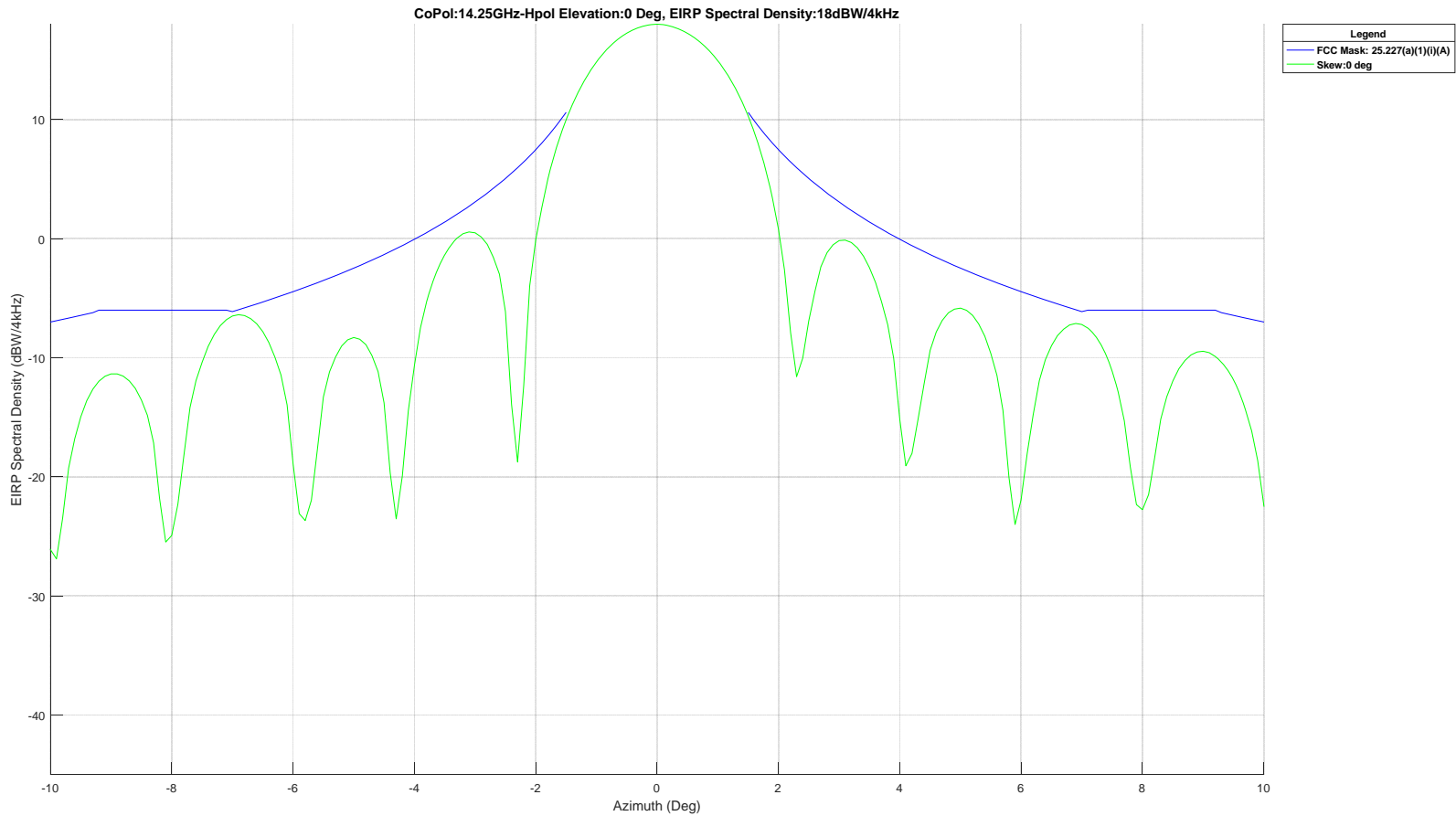


# COPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ

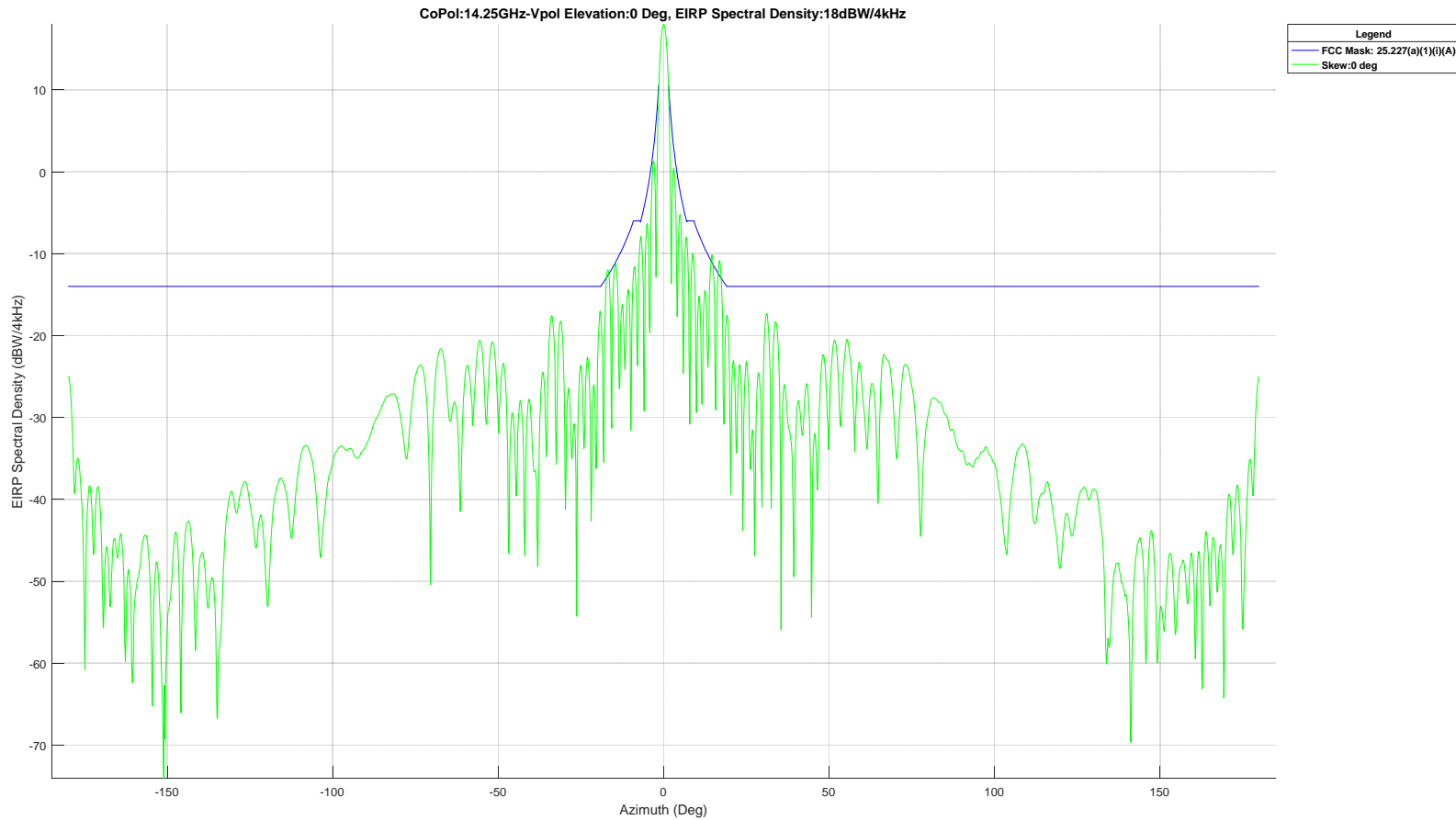




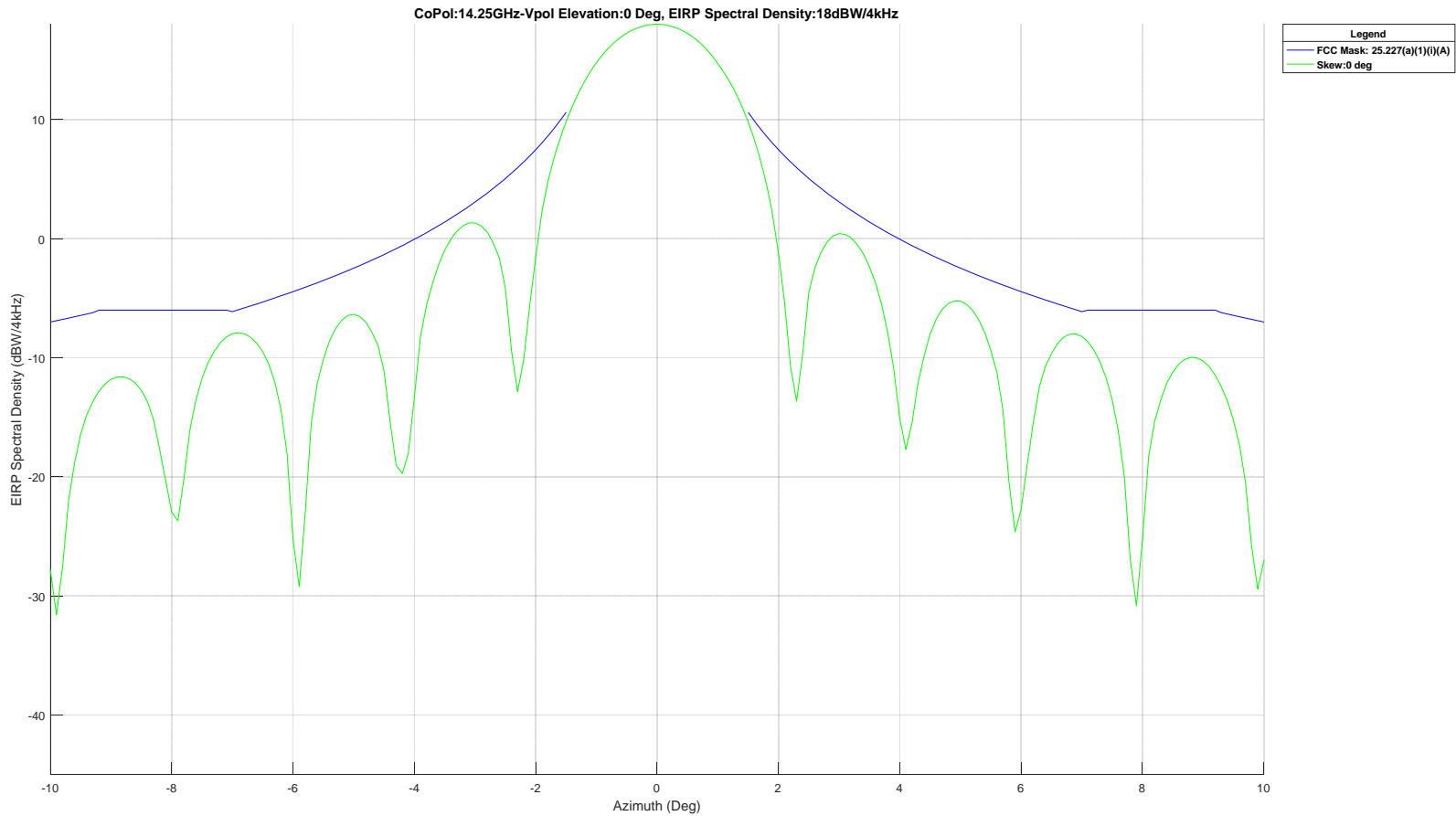
# COPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ



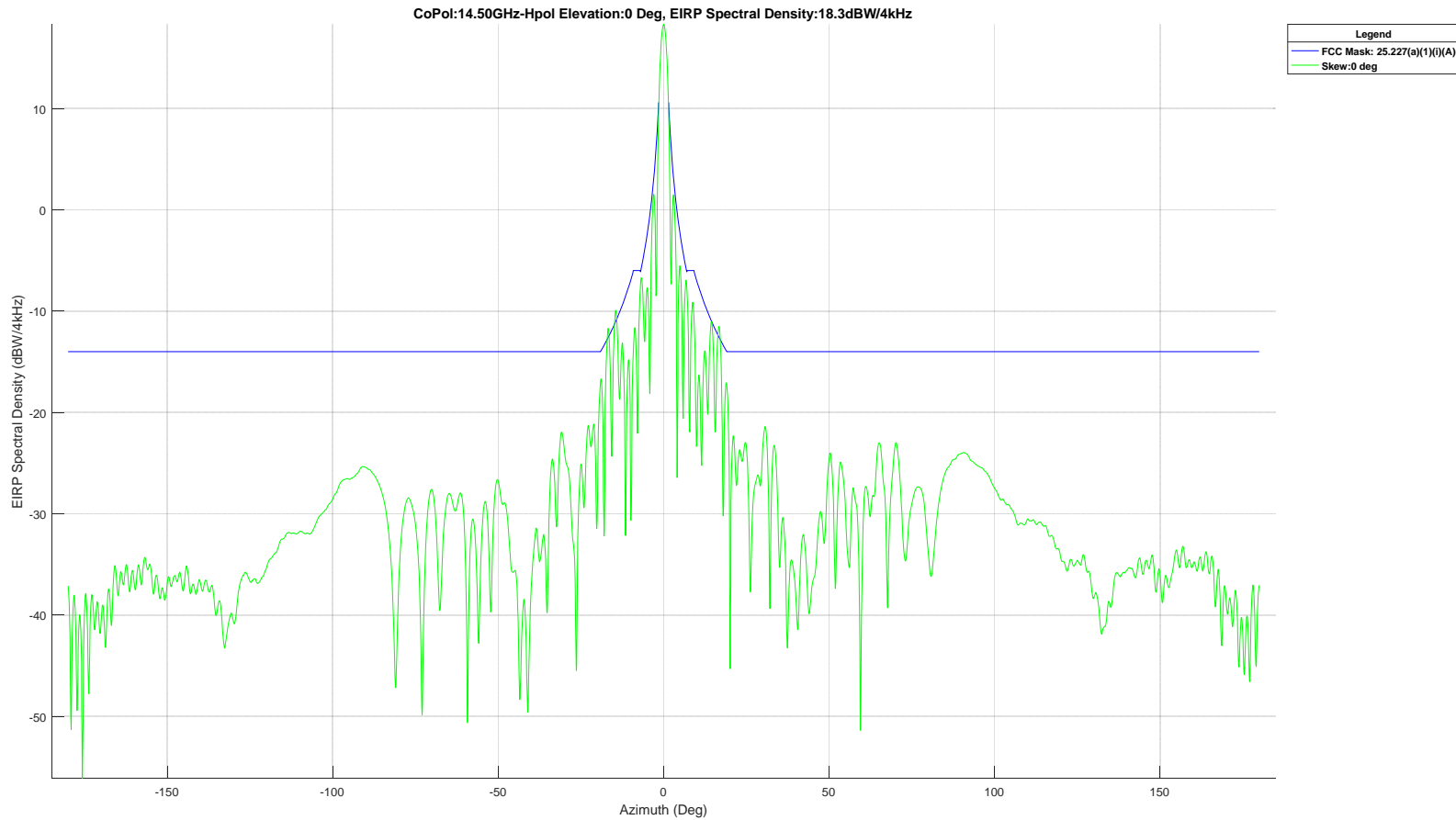
# COPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ



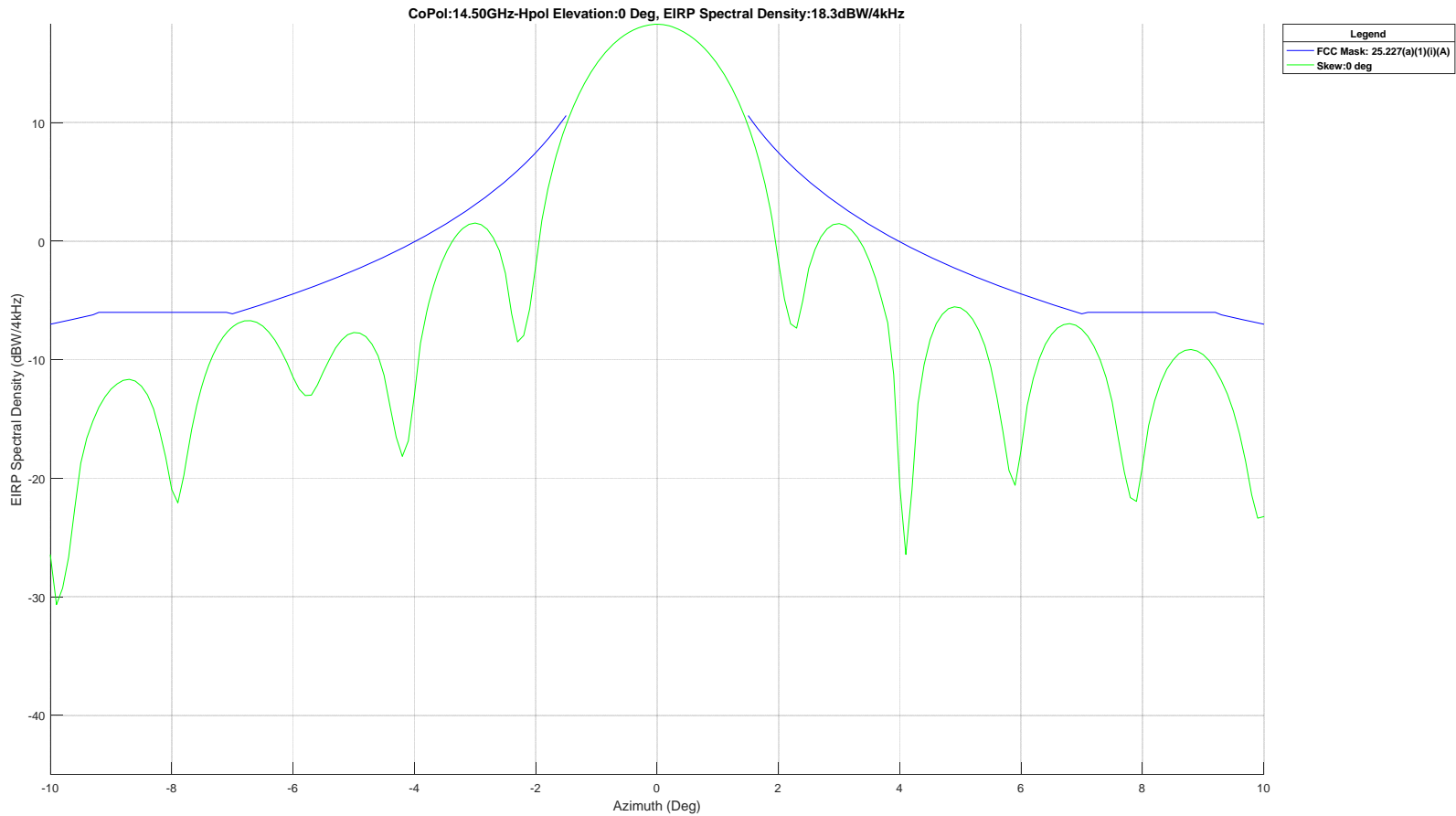
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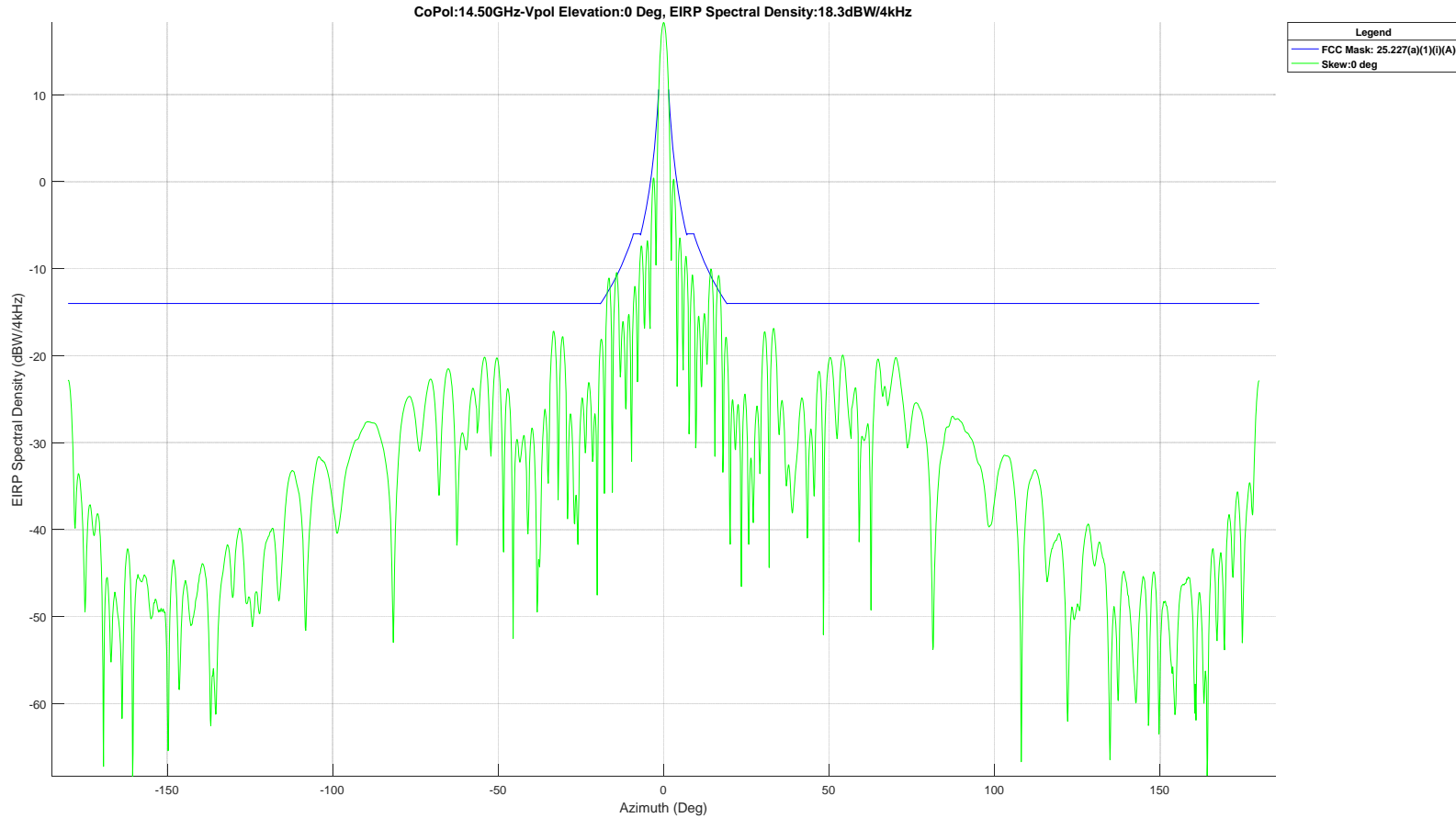
# COPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:18.3DBW/4KHZ



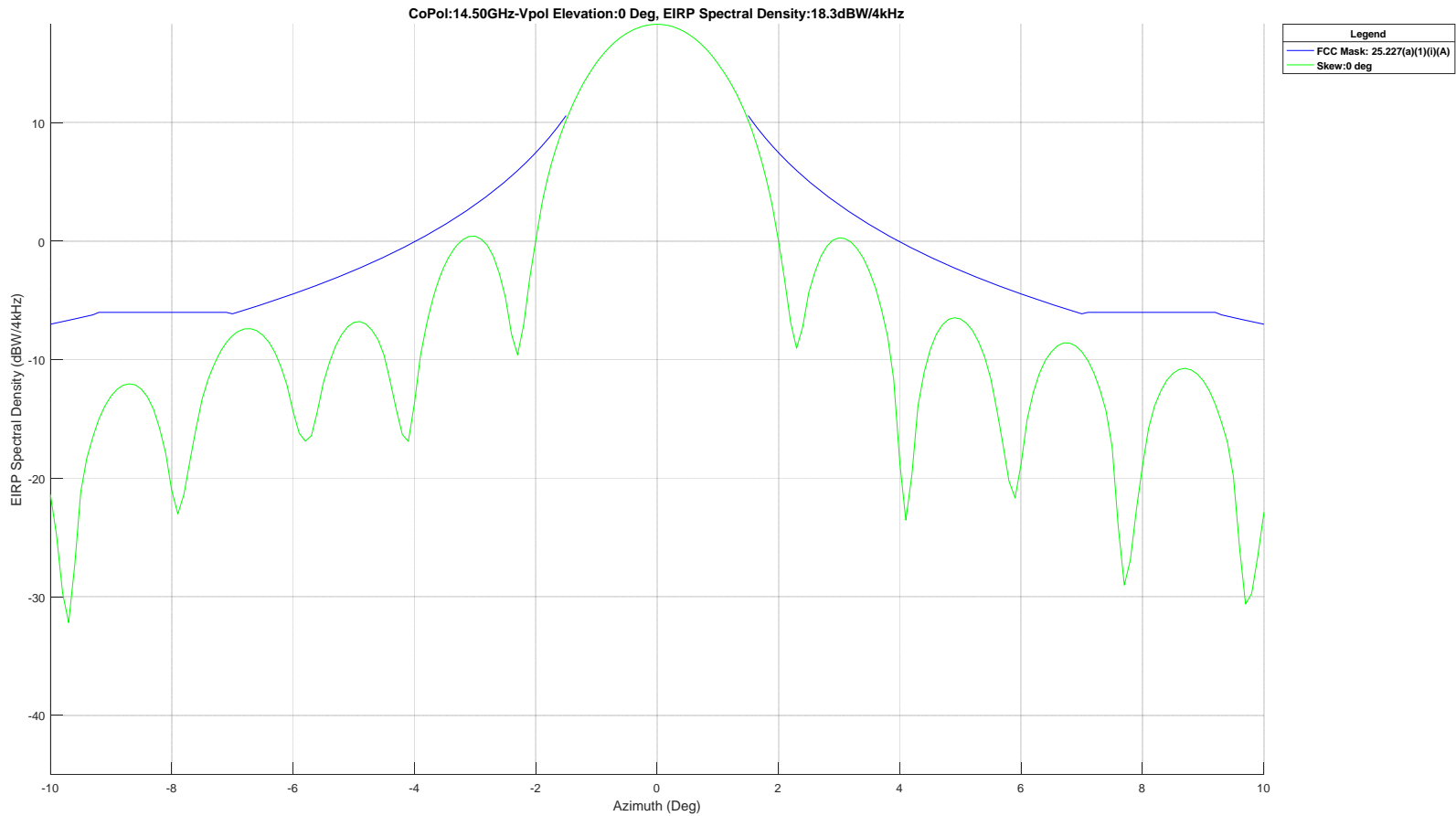
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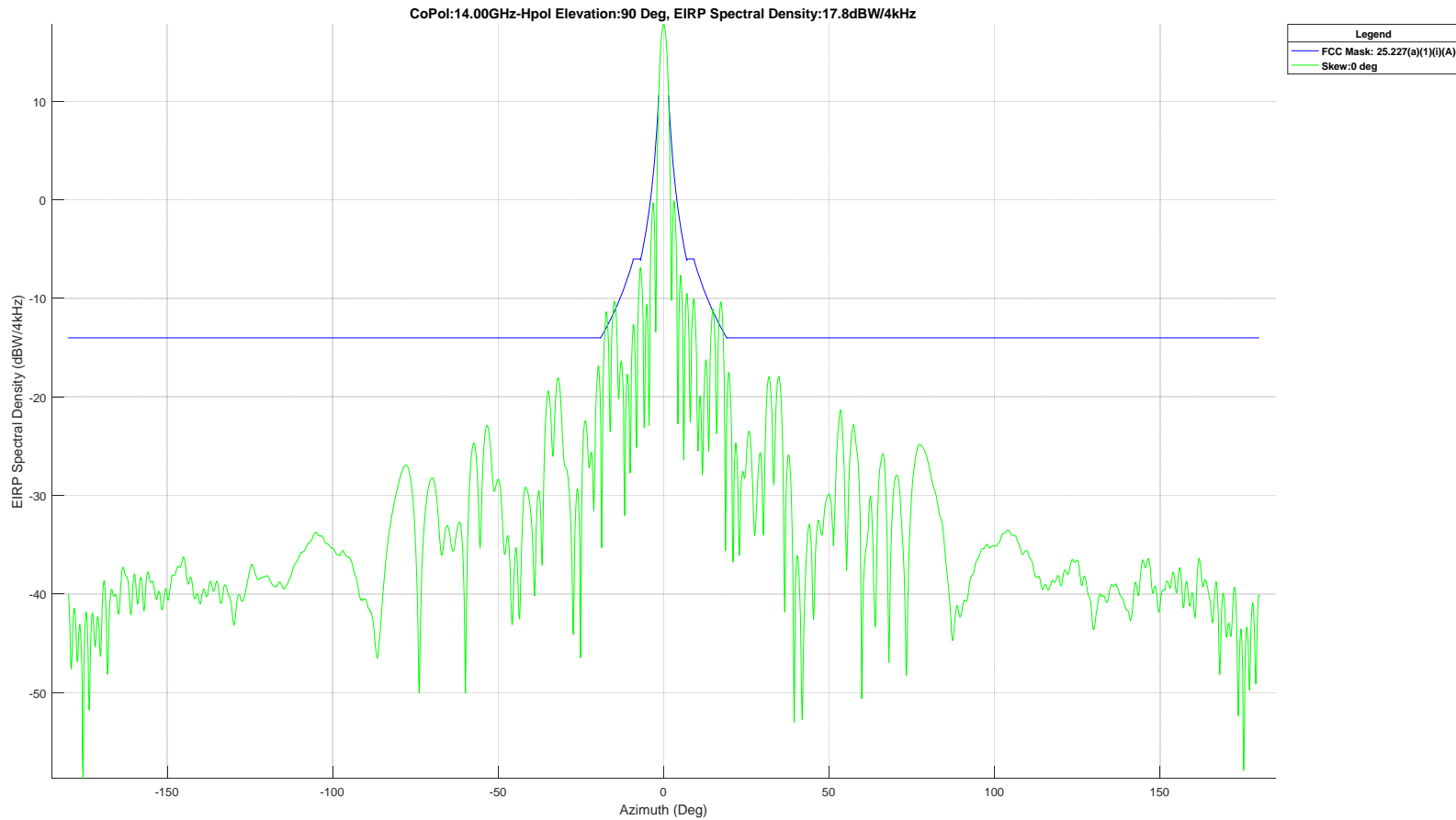
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# COPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:18.3DBW/4KHZ

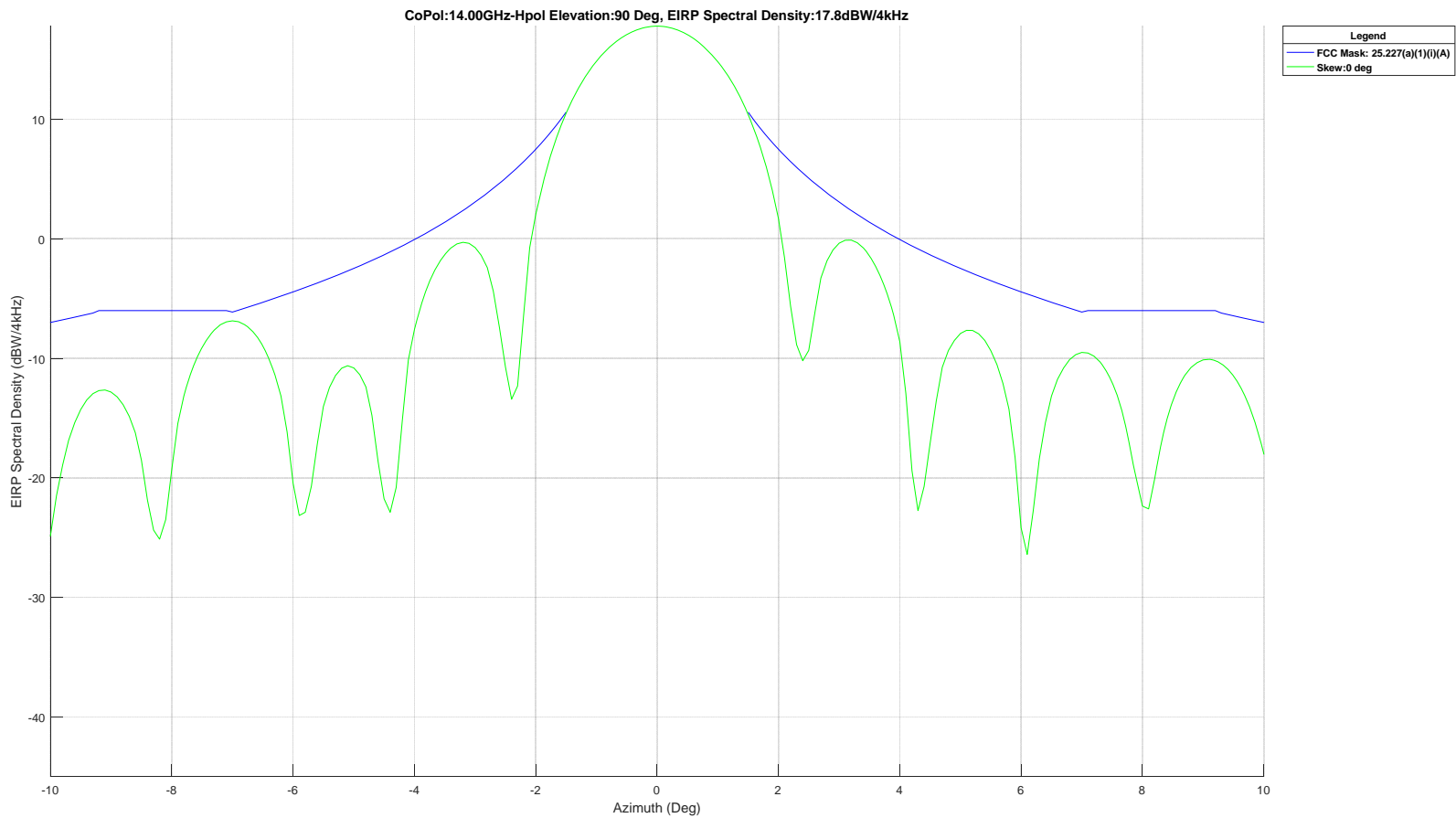


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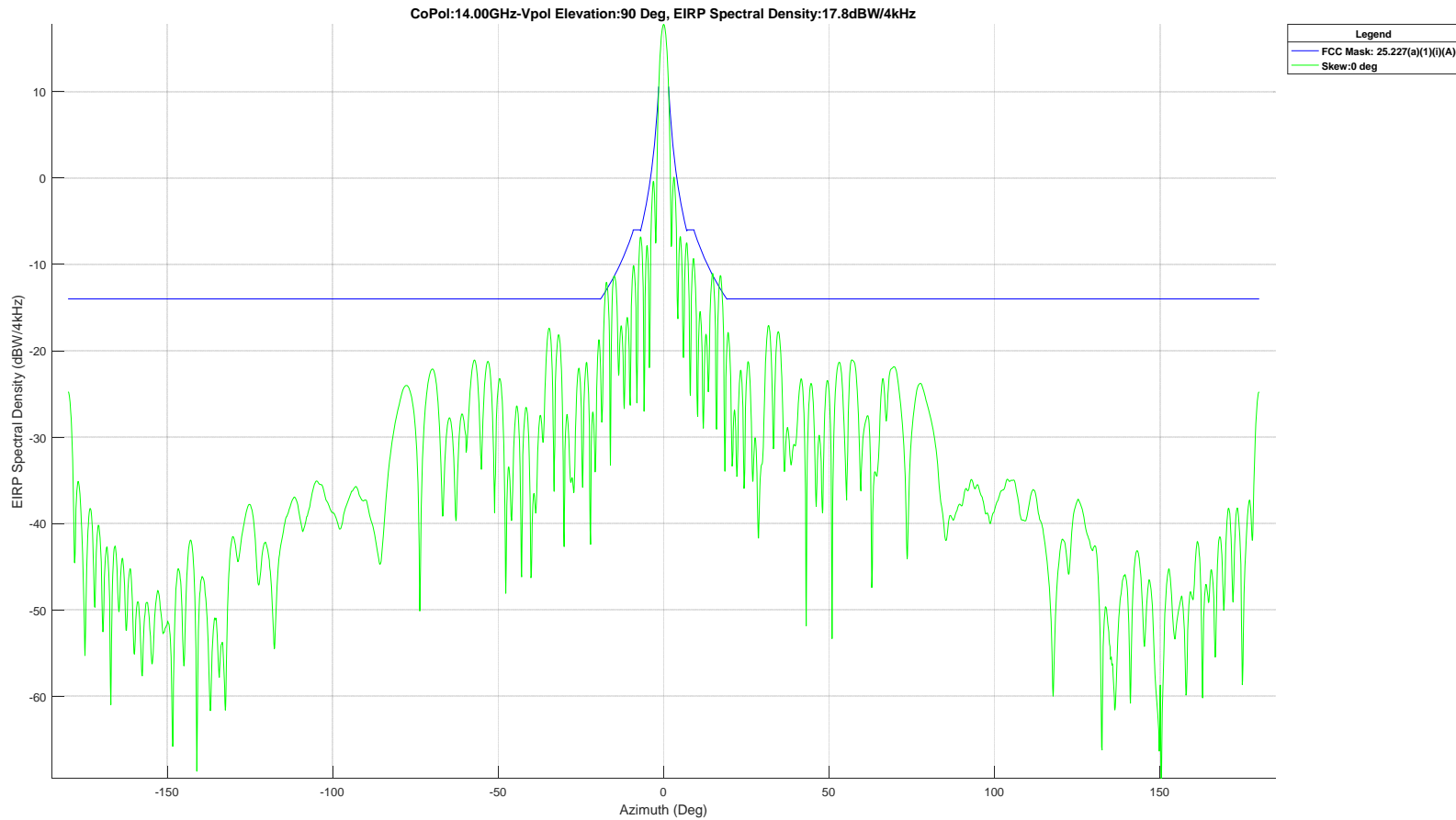




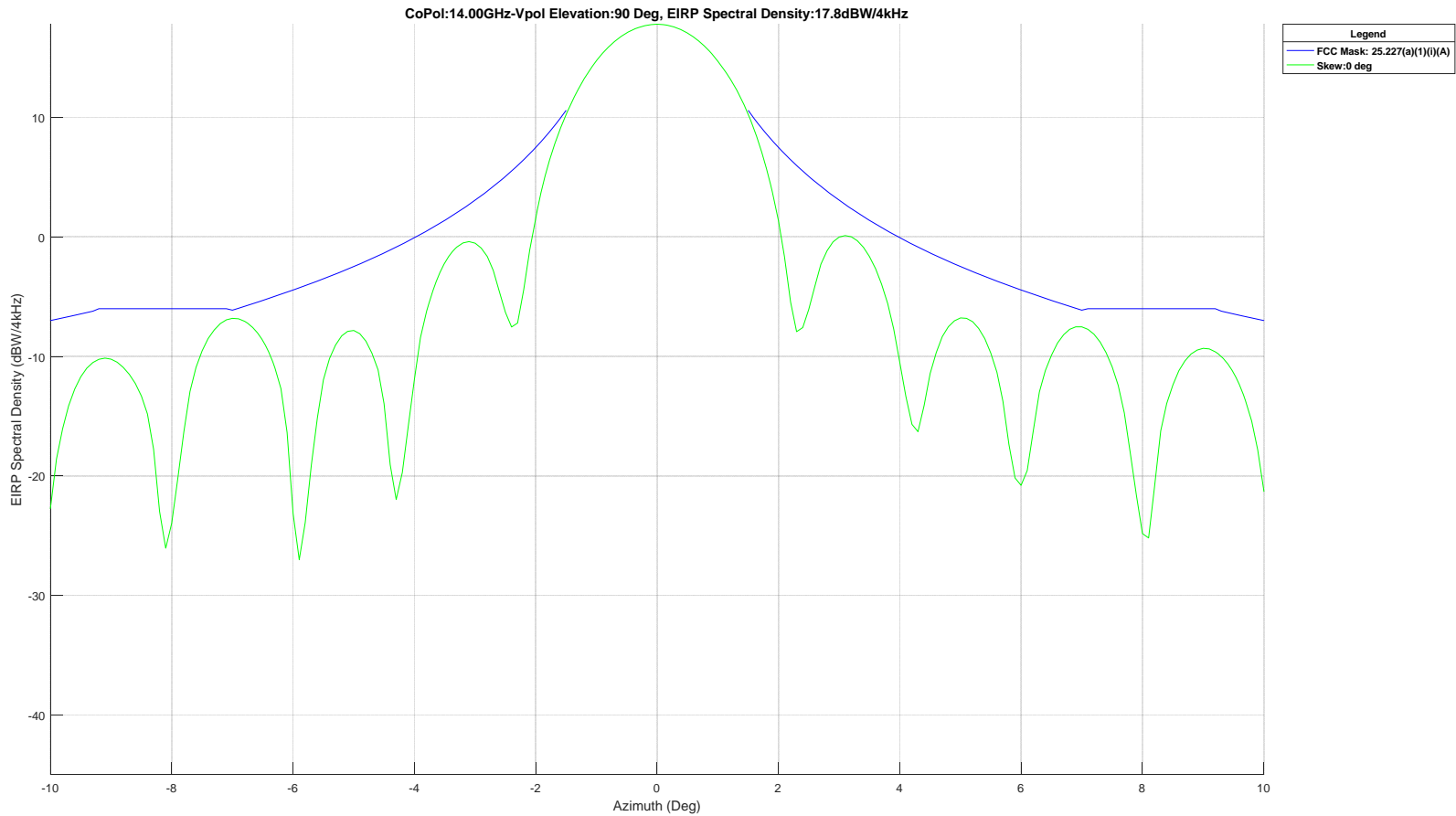
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ



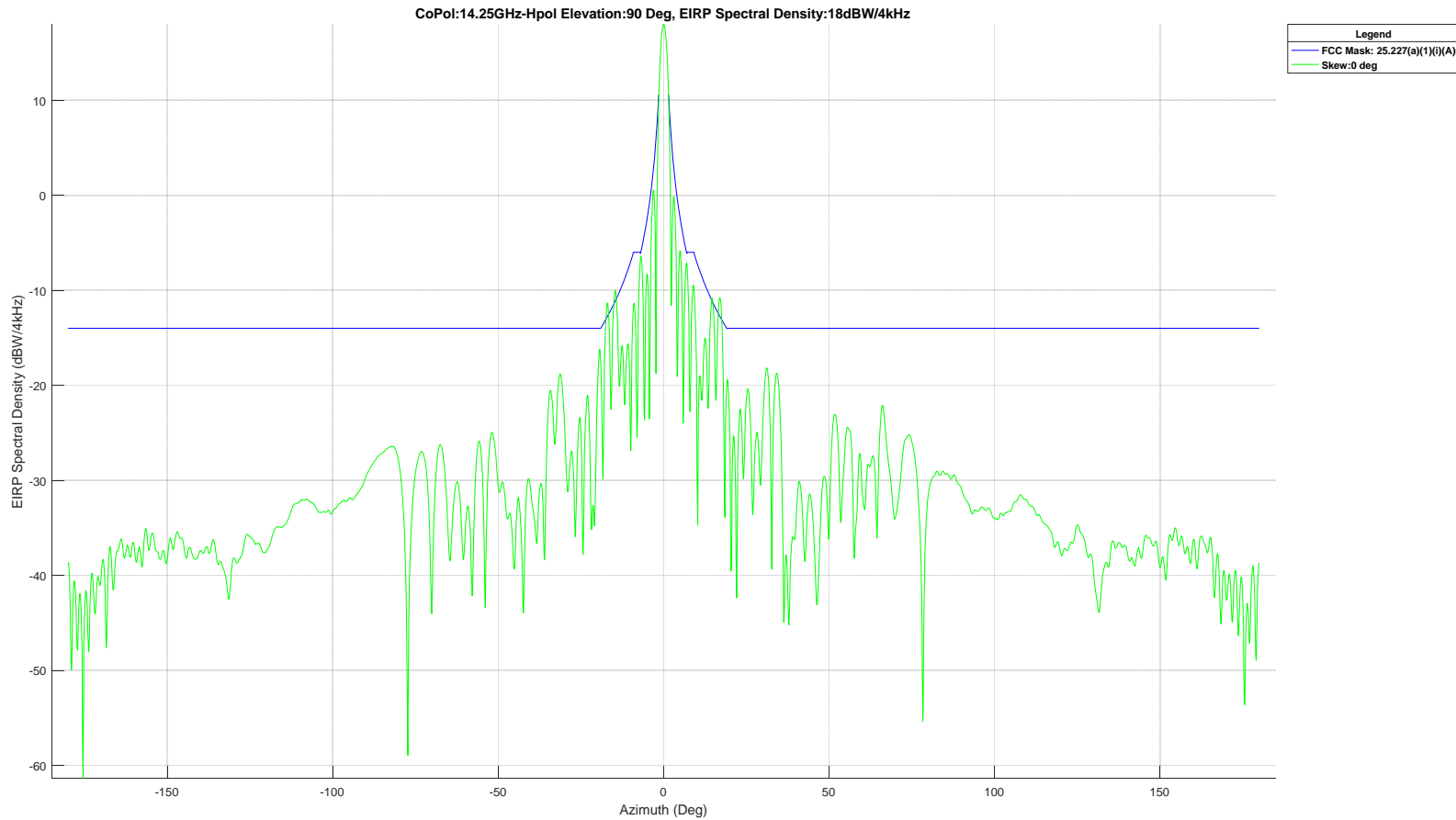
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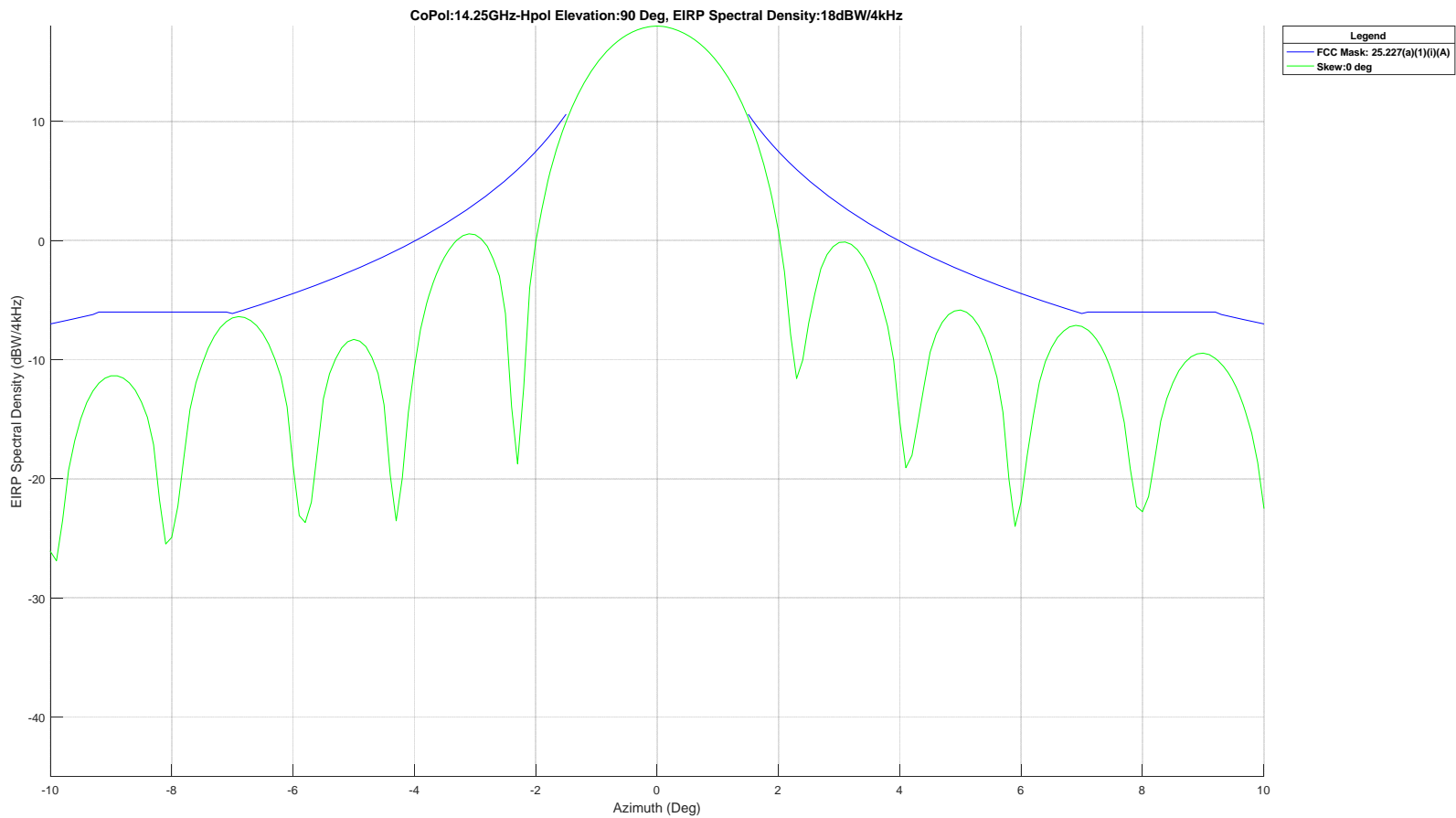
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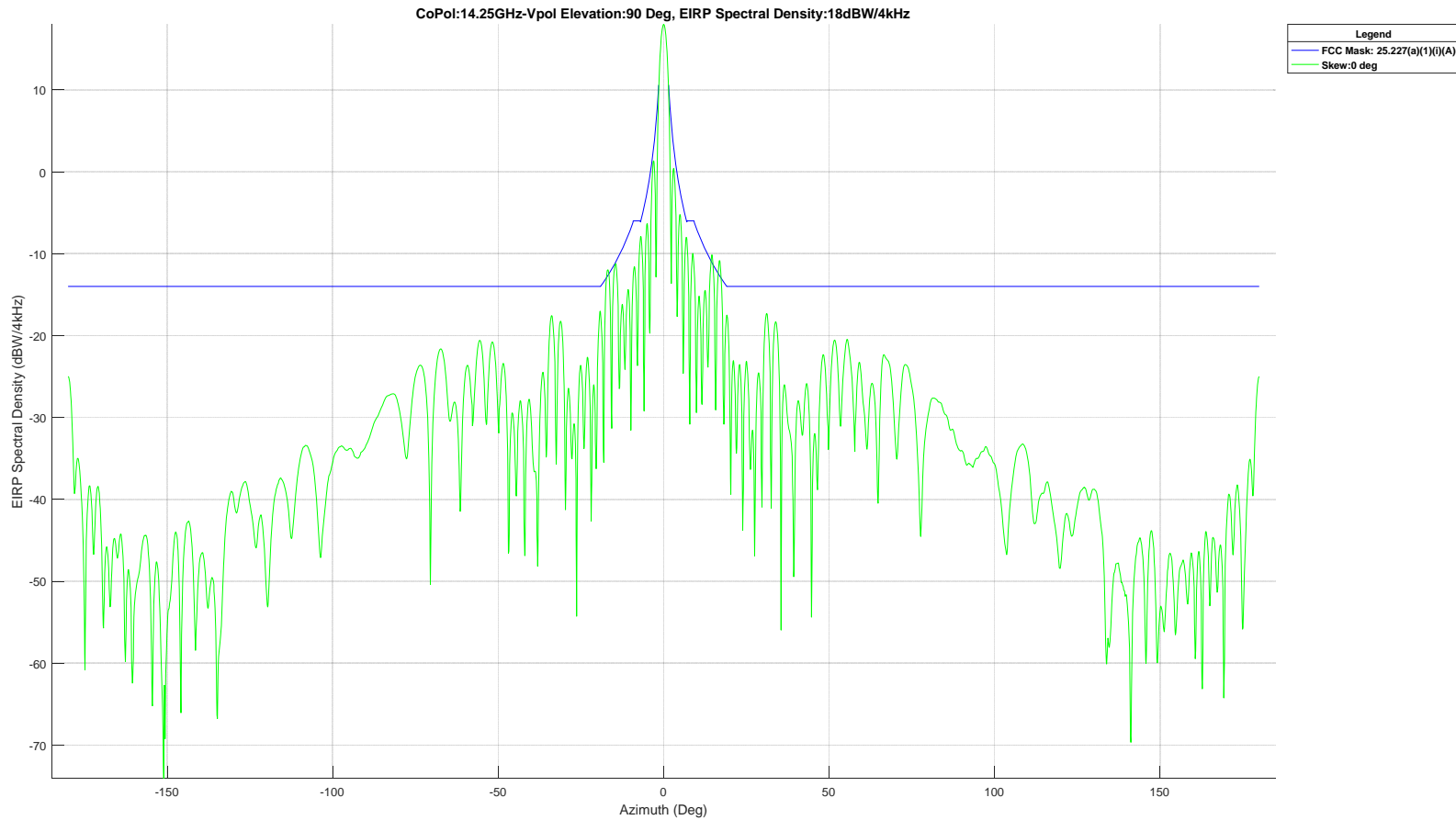
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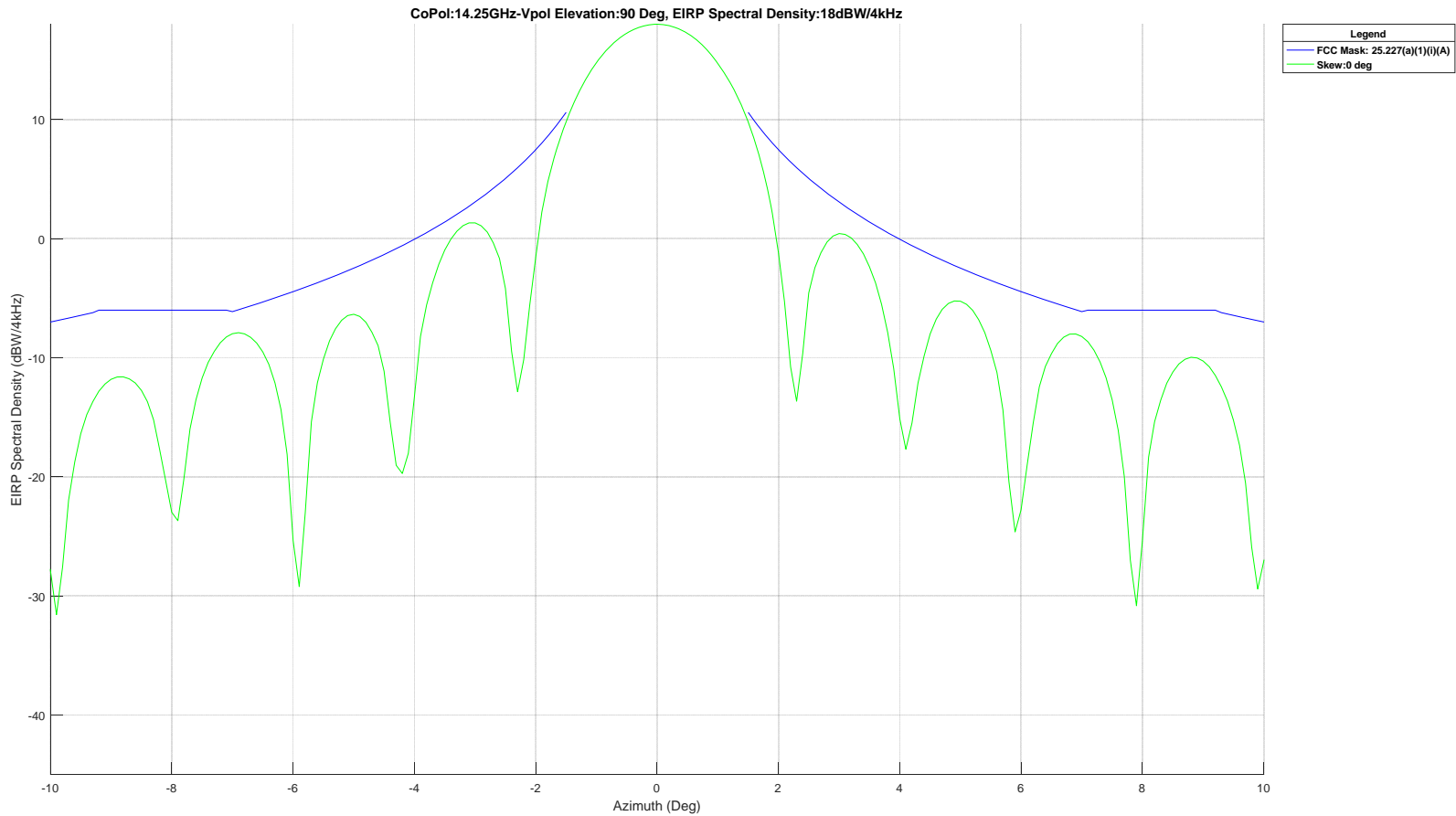
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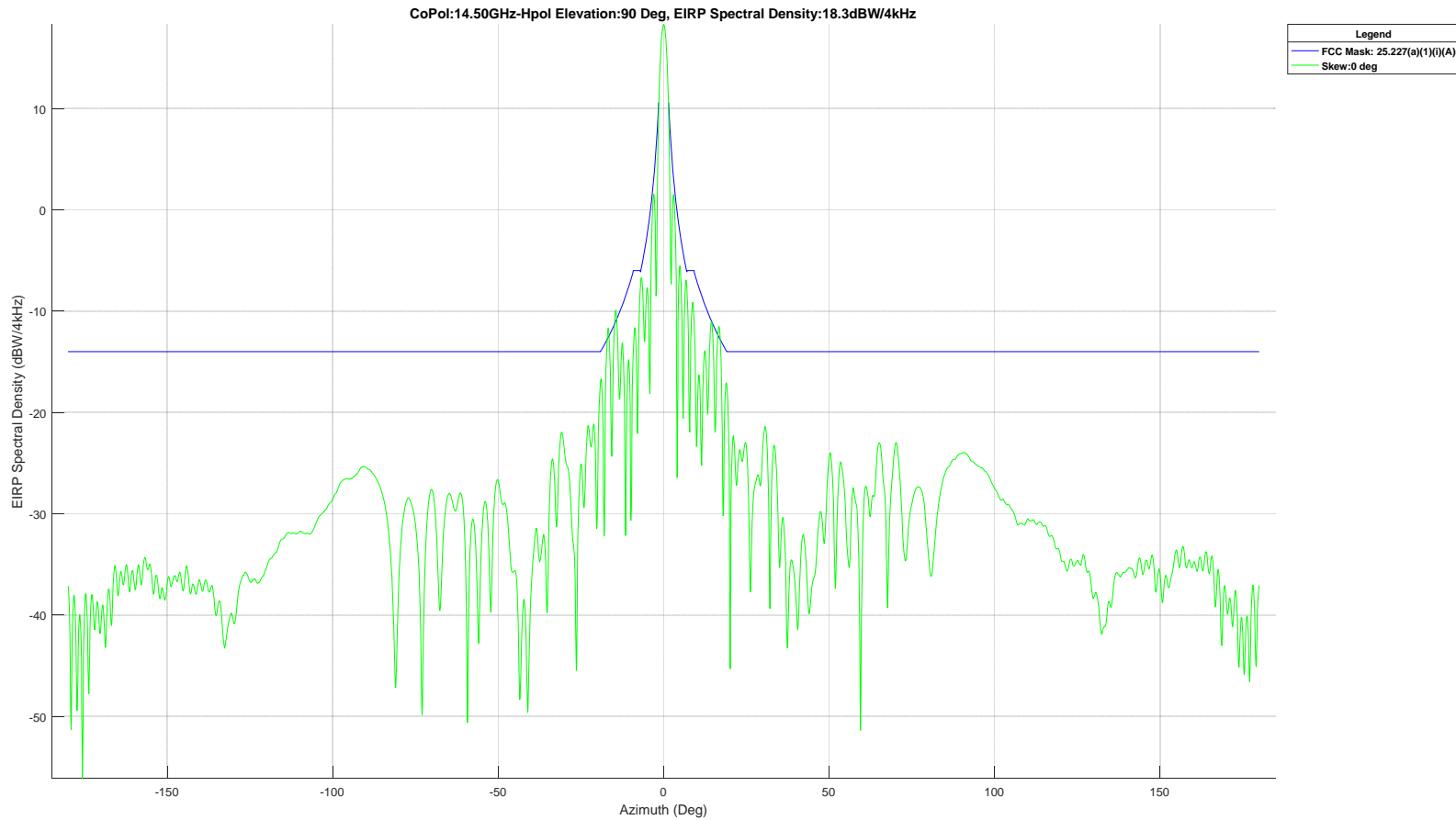
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# COPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ

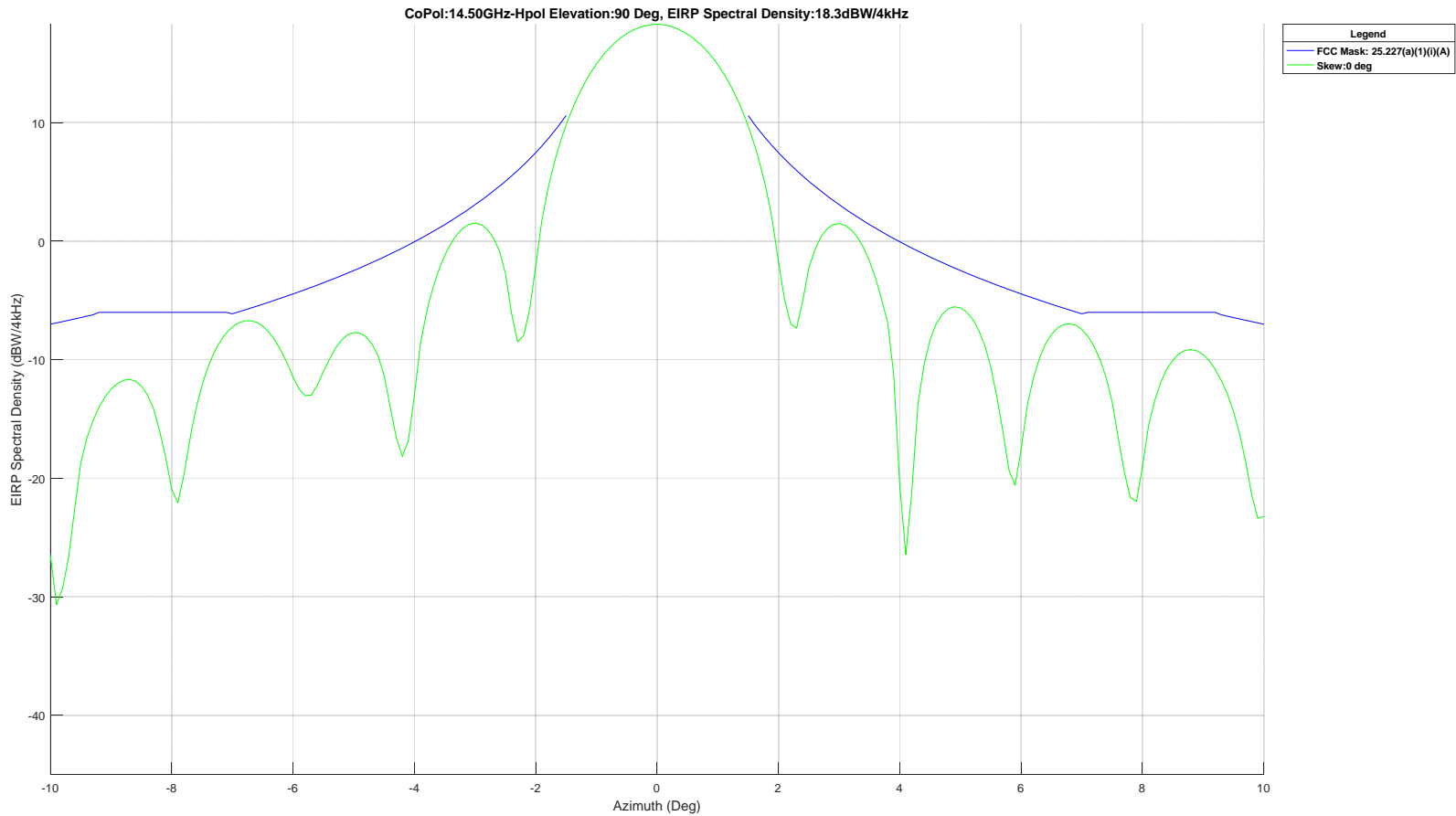


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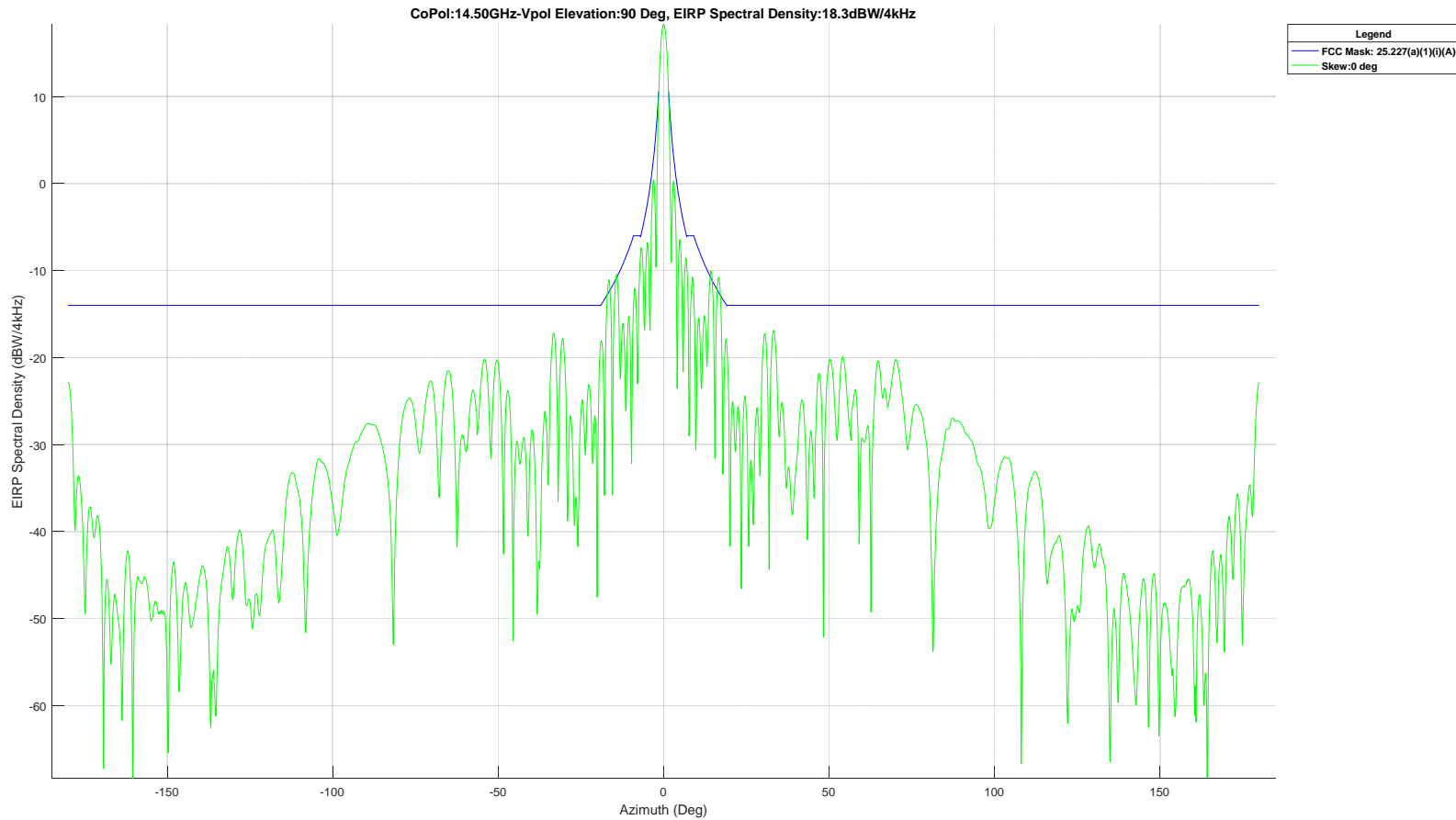




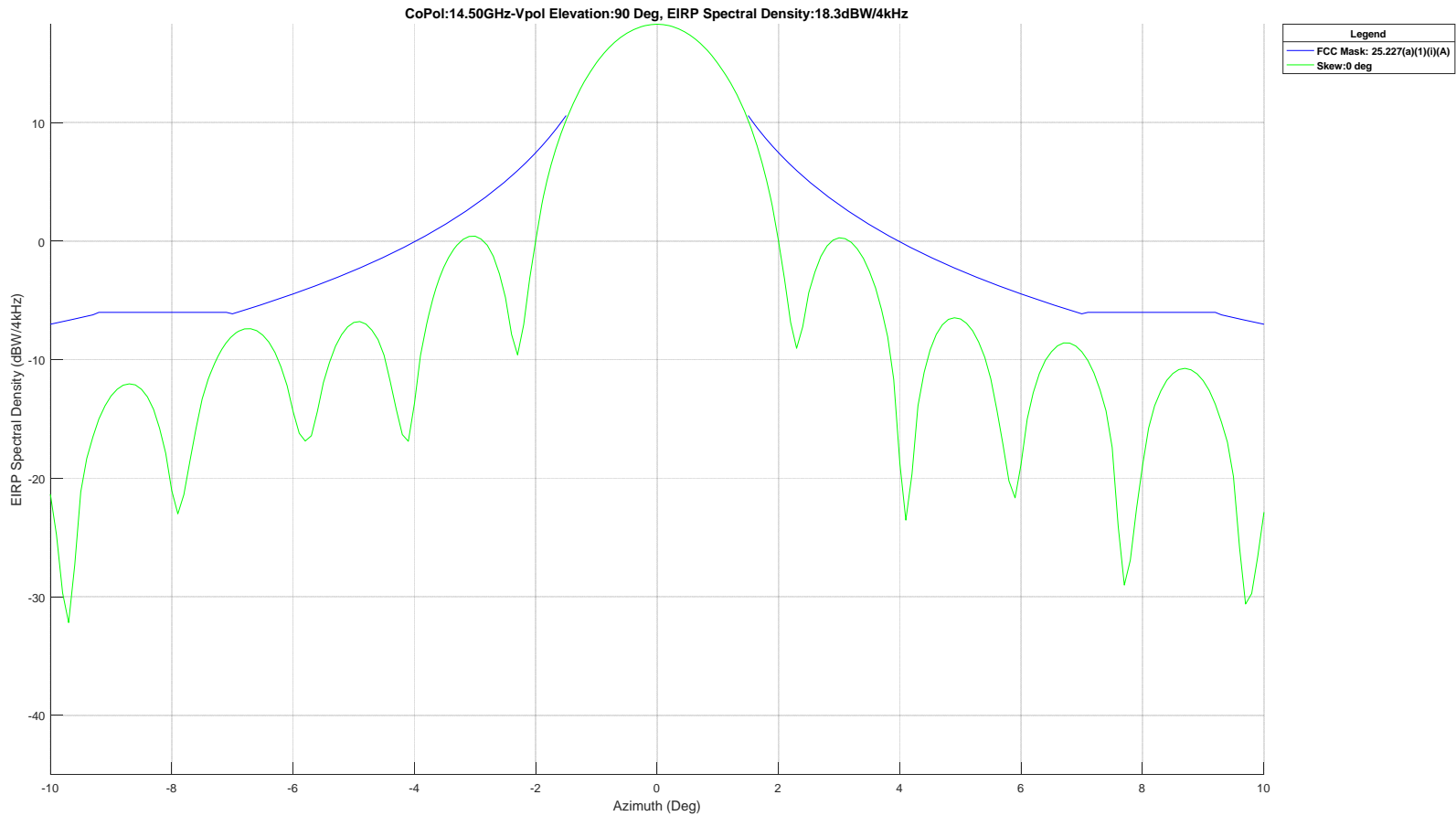
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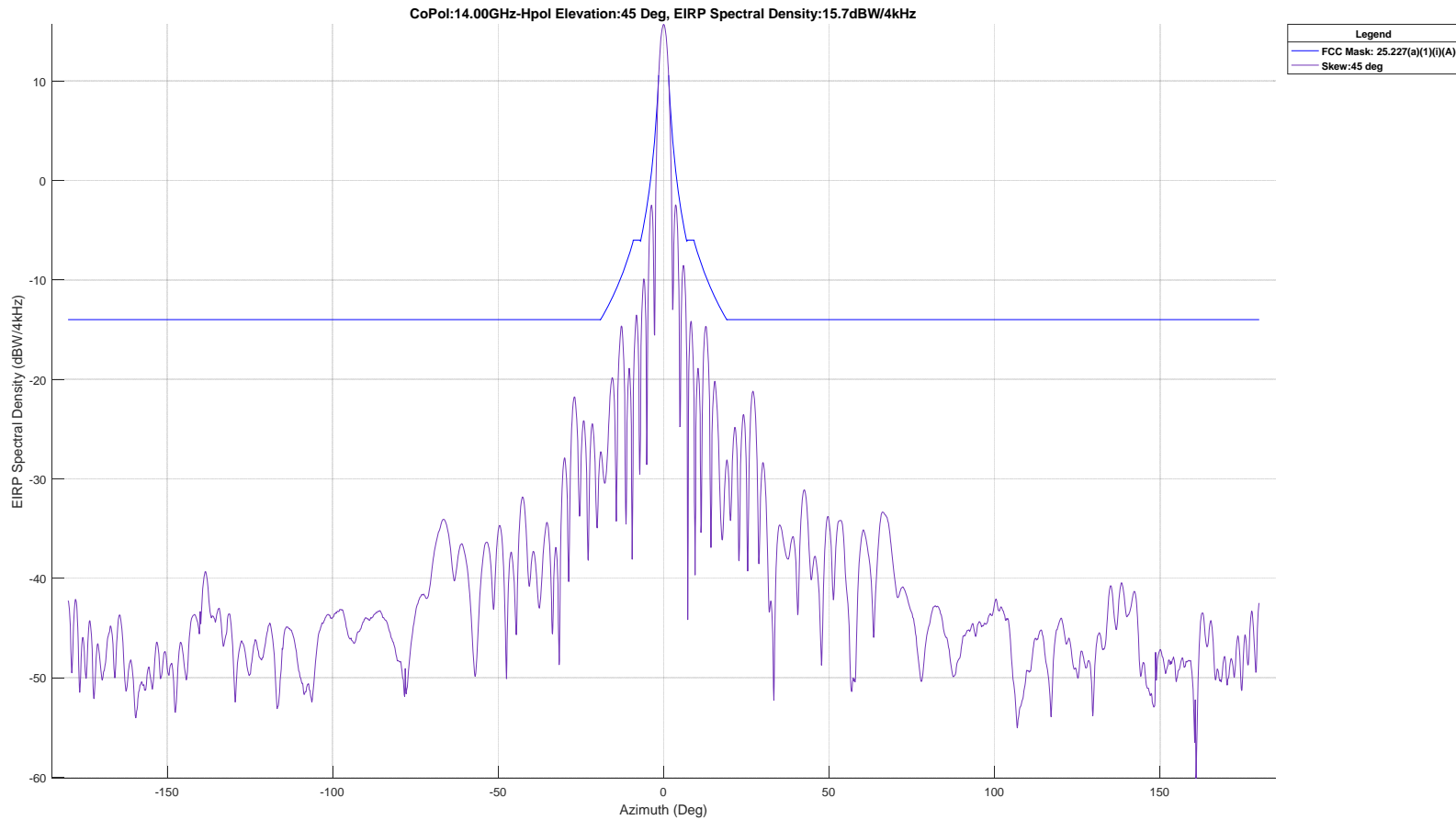
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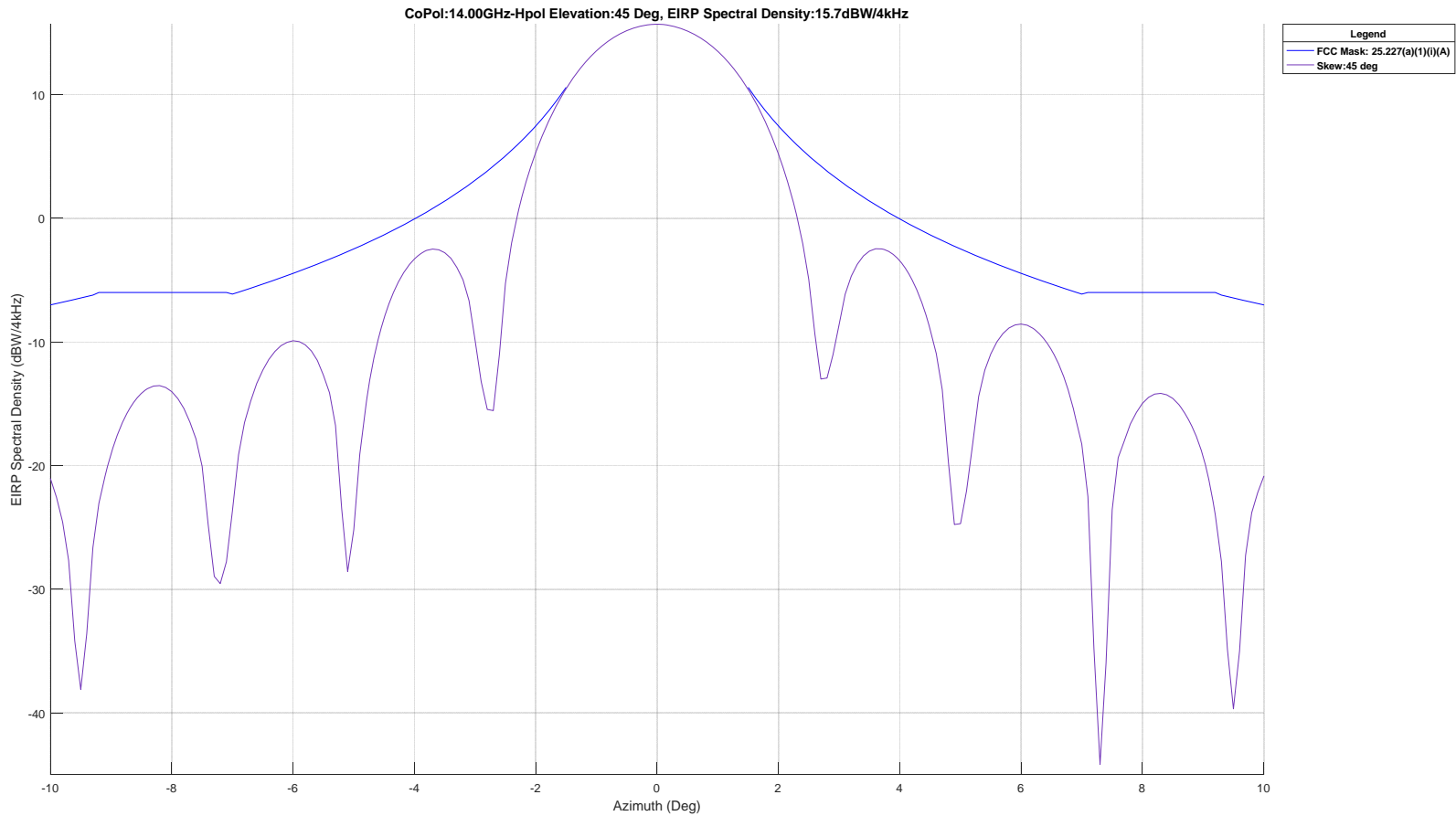
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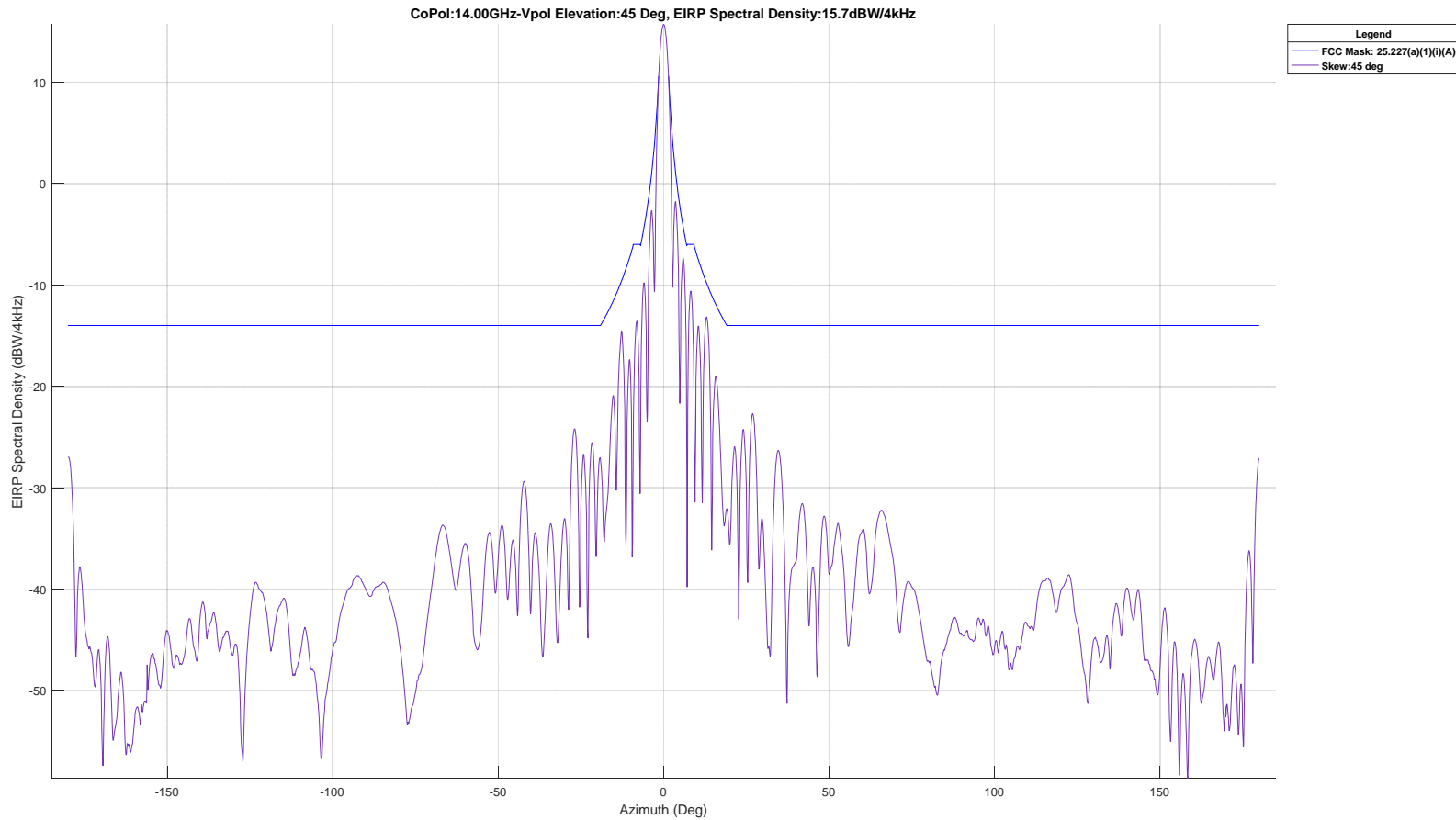
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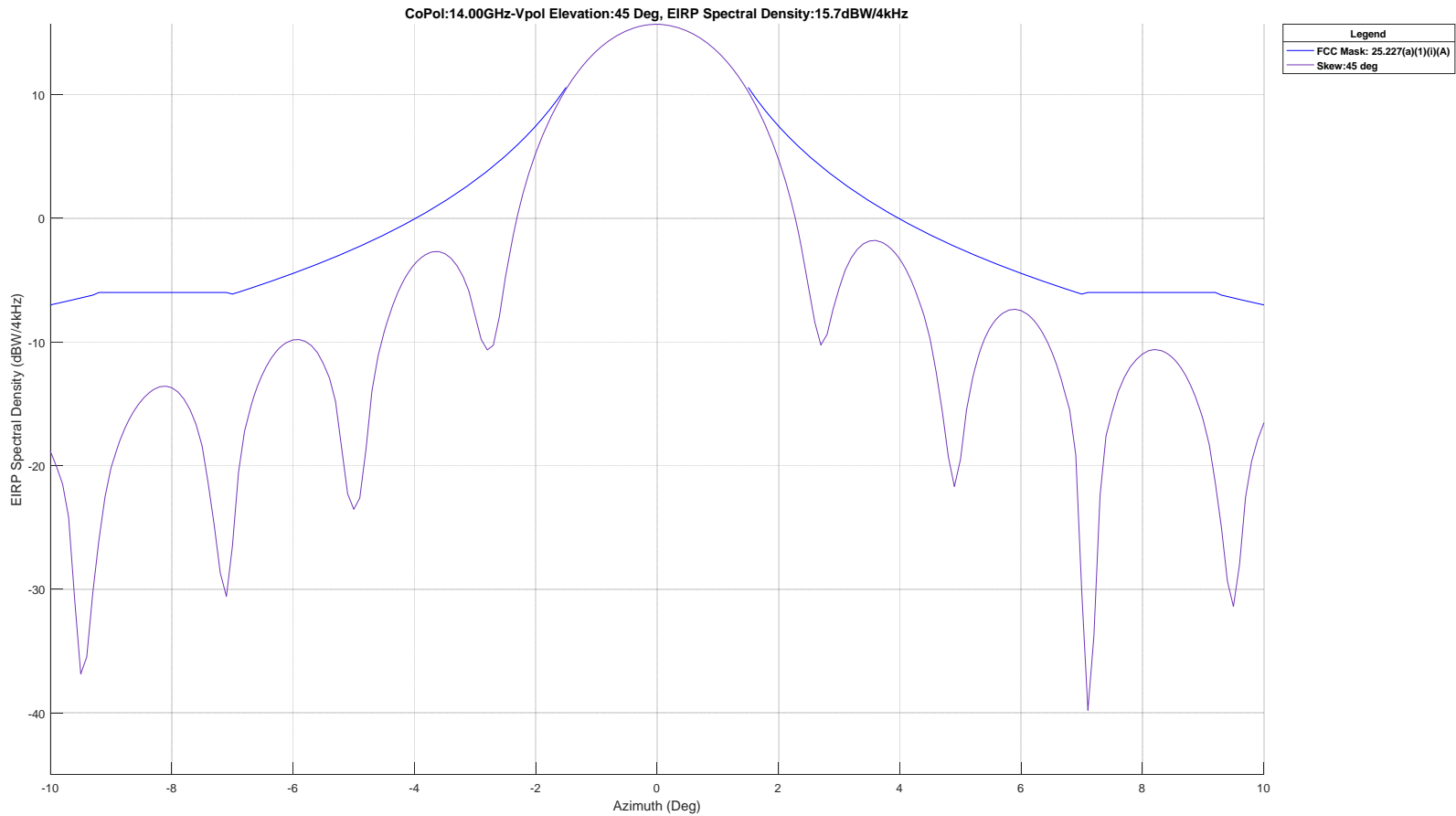
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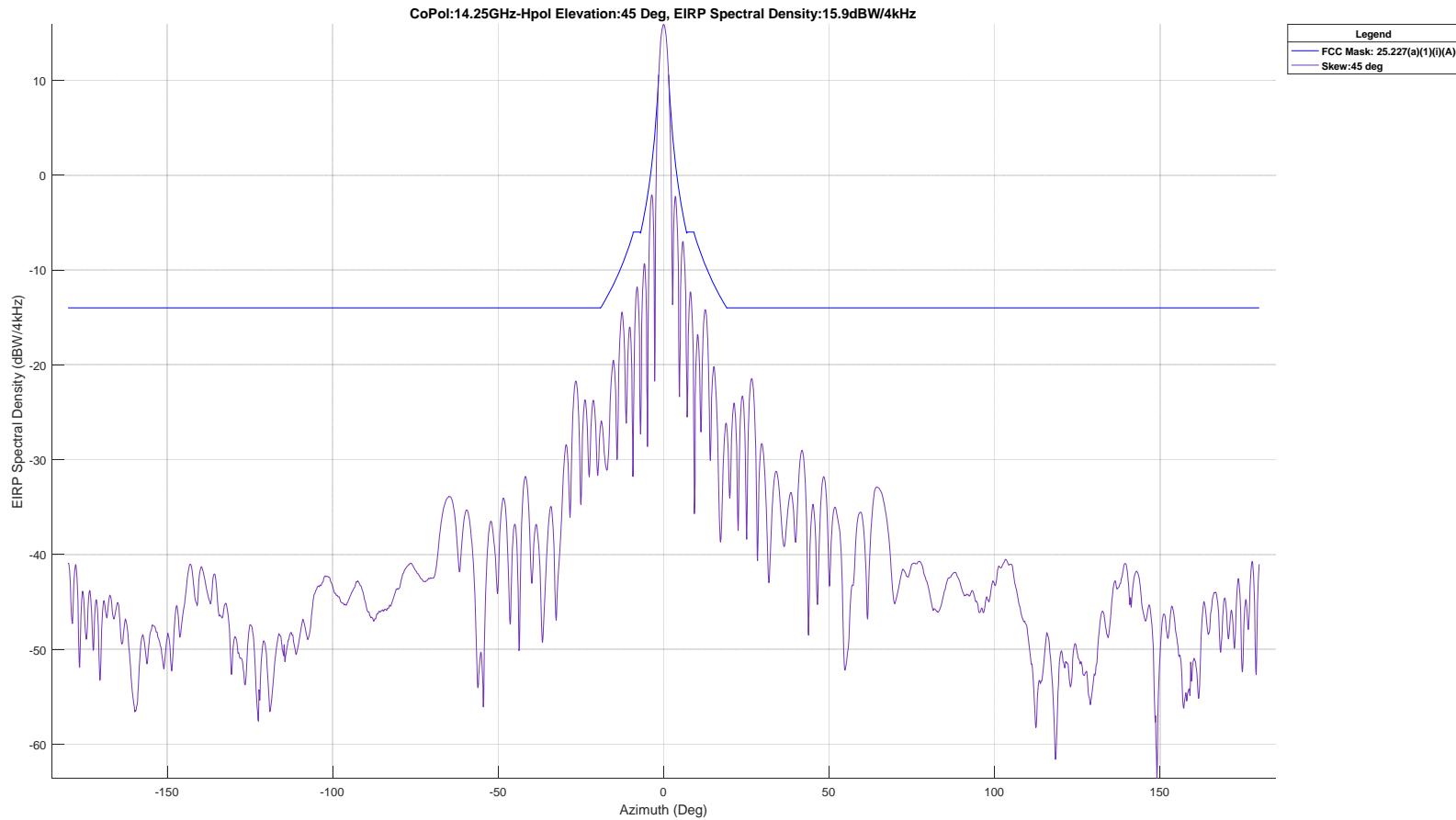
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:15.7DBW/4KHZ



# COPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:15.7DBW/4KHZ

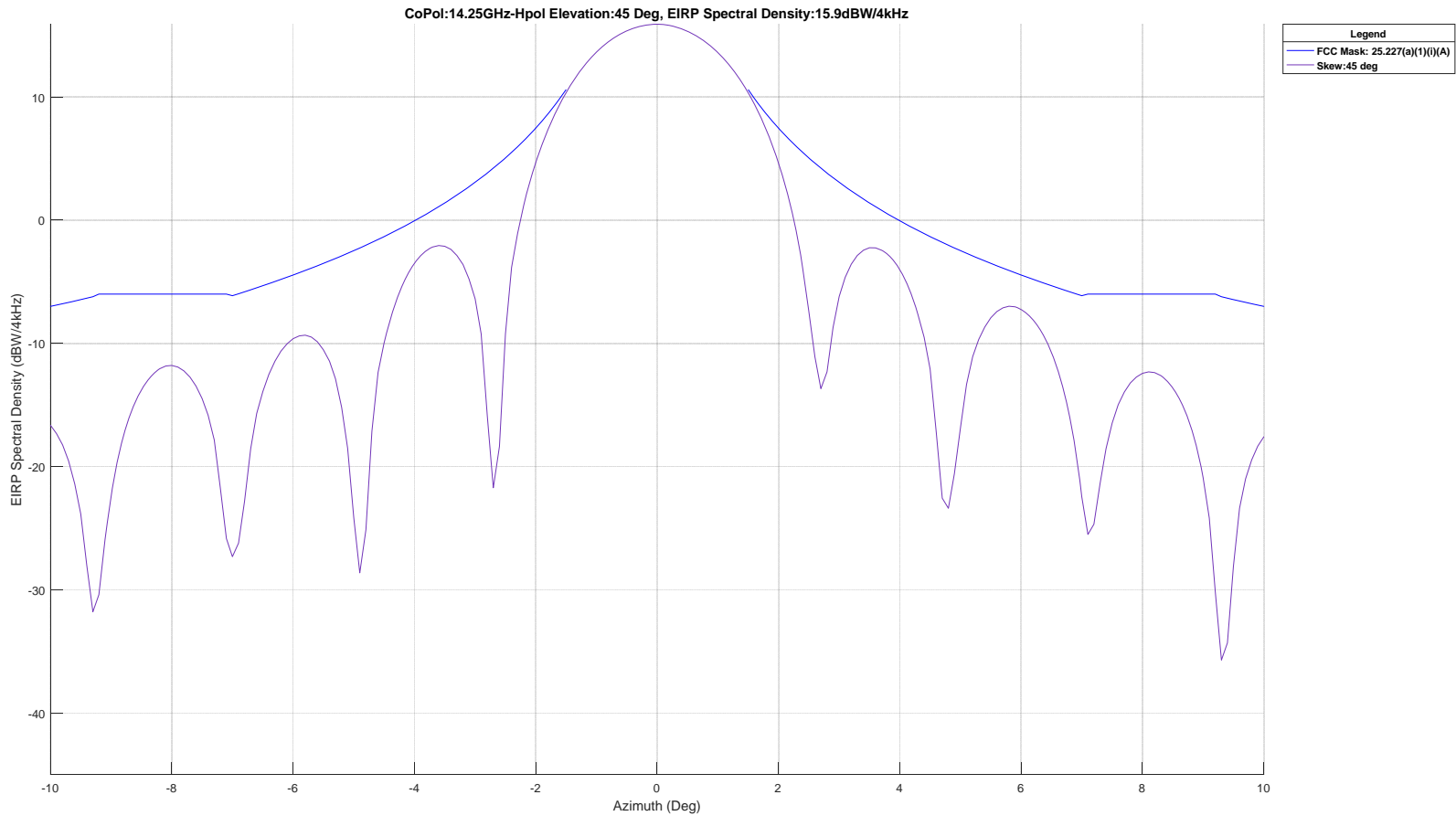


# COPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:15.9DBW/4KHZ

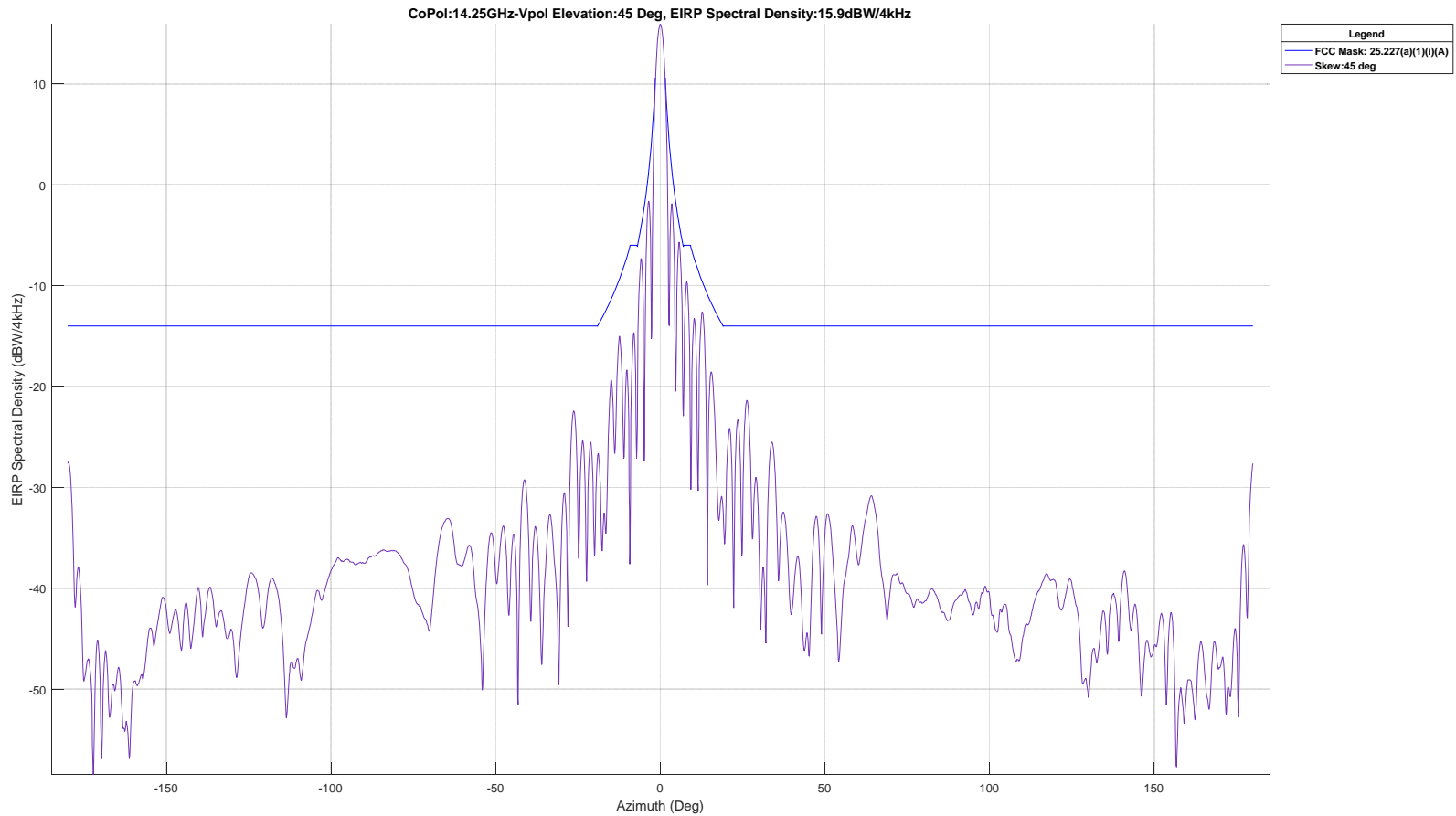




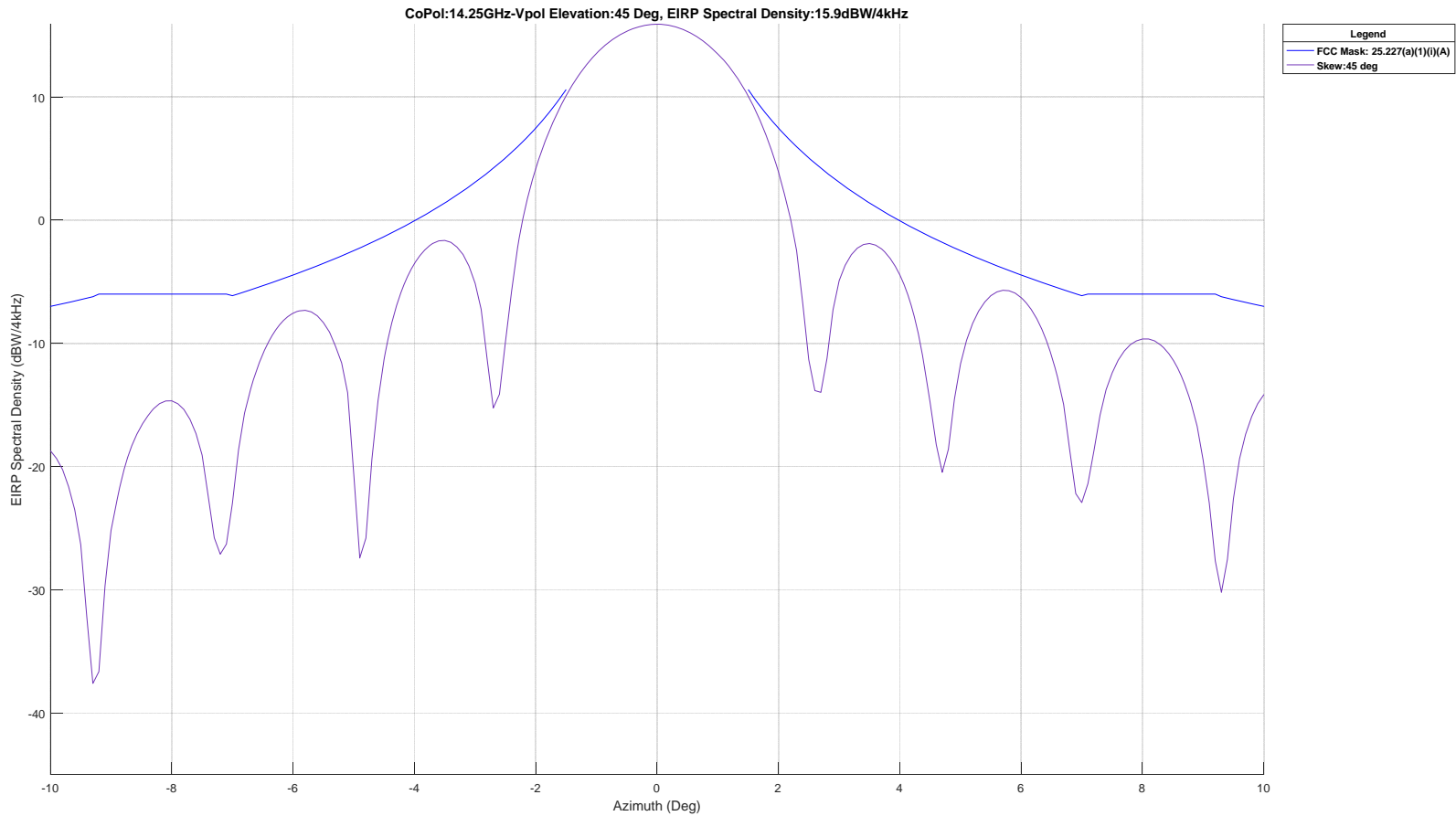
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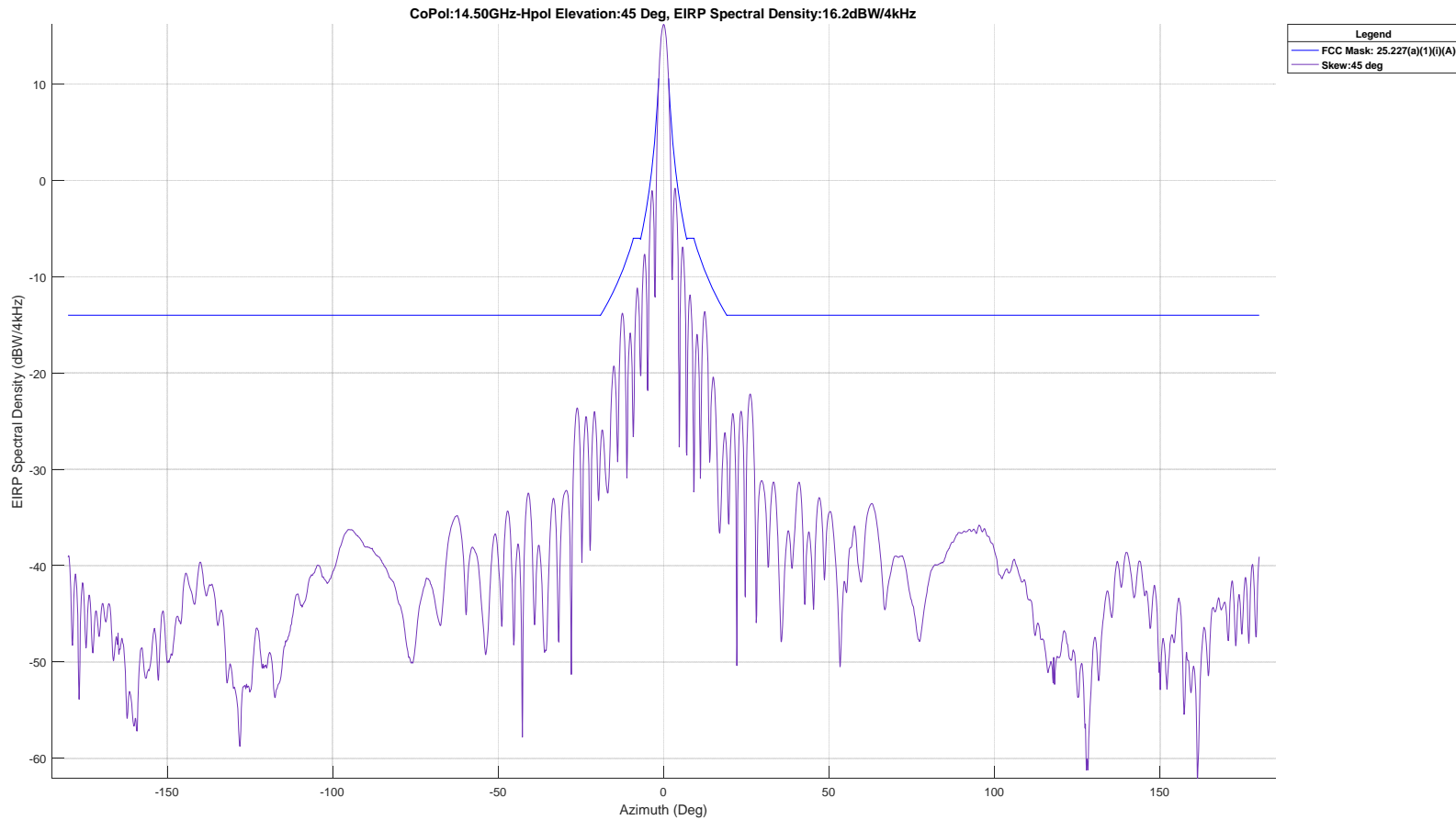
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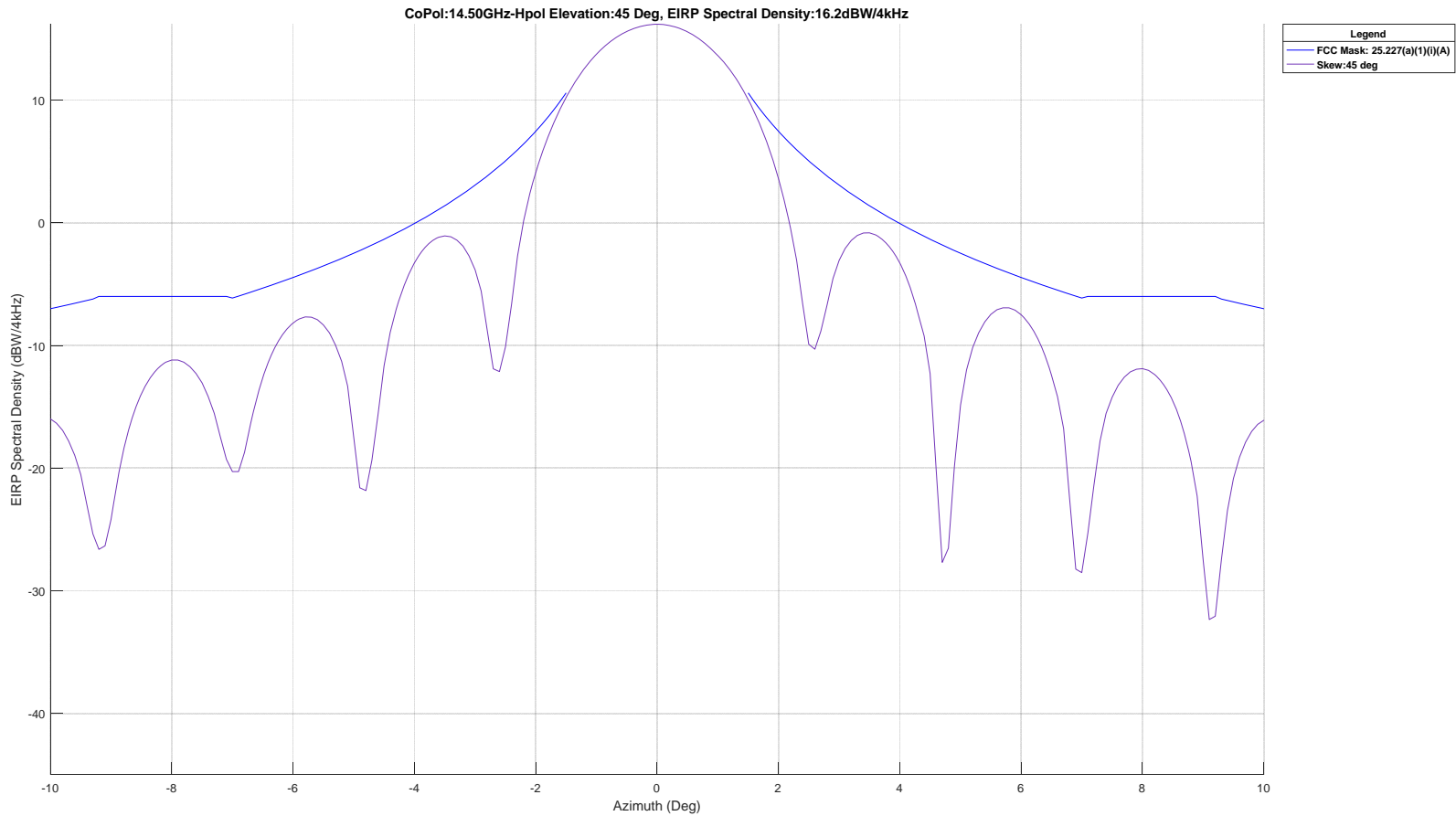
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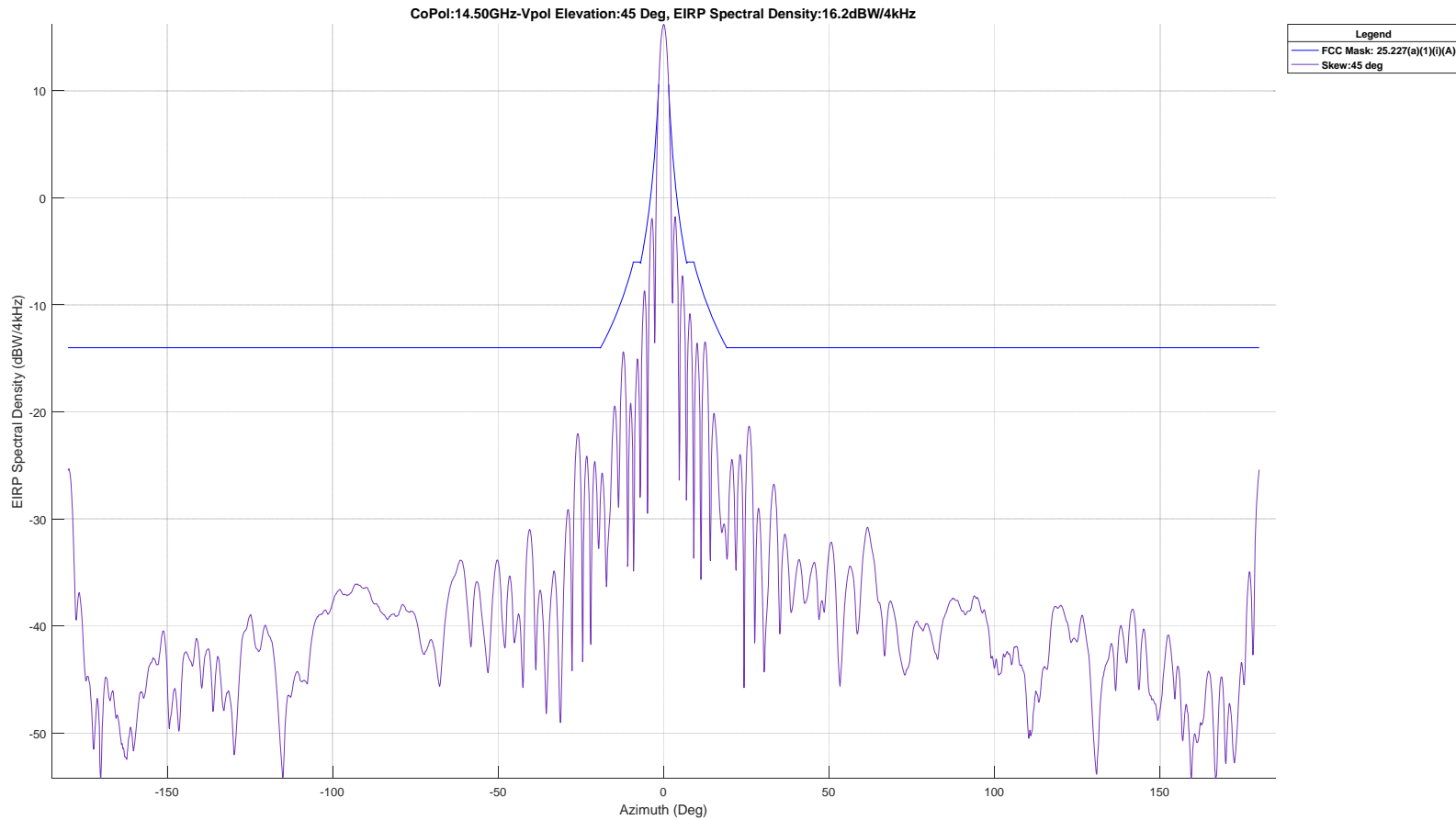
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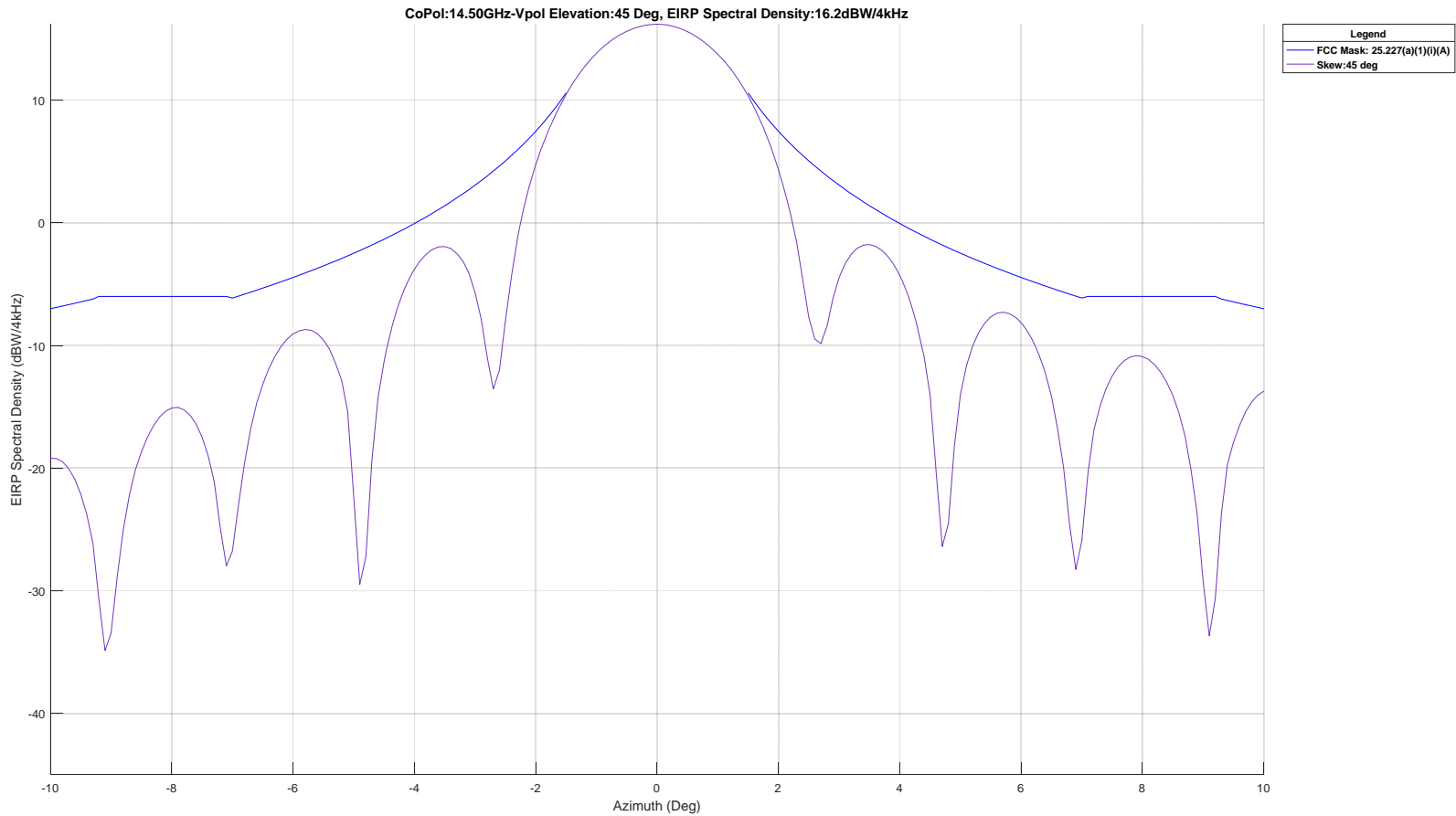
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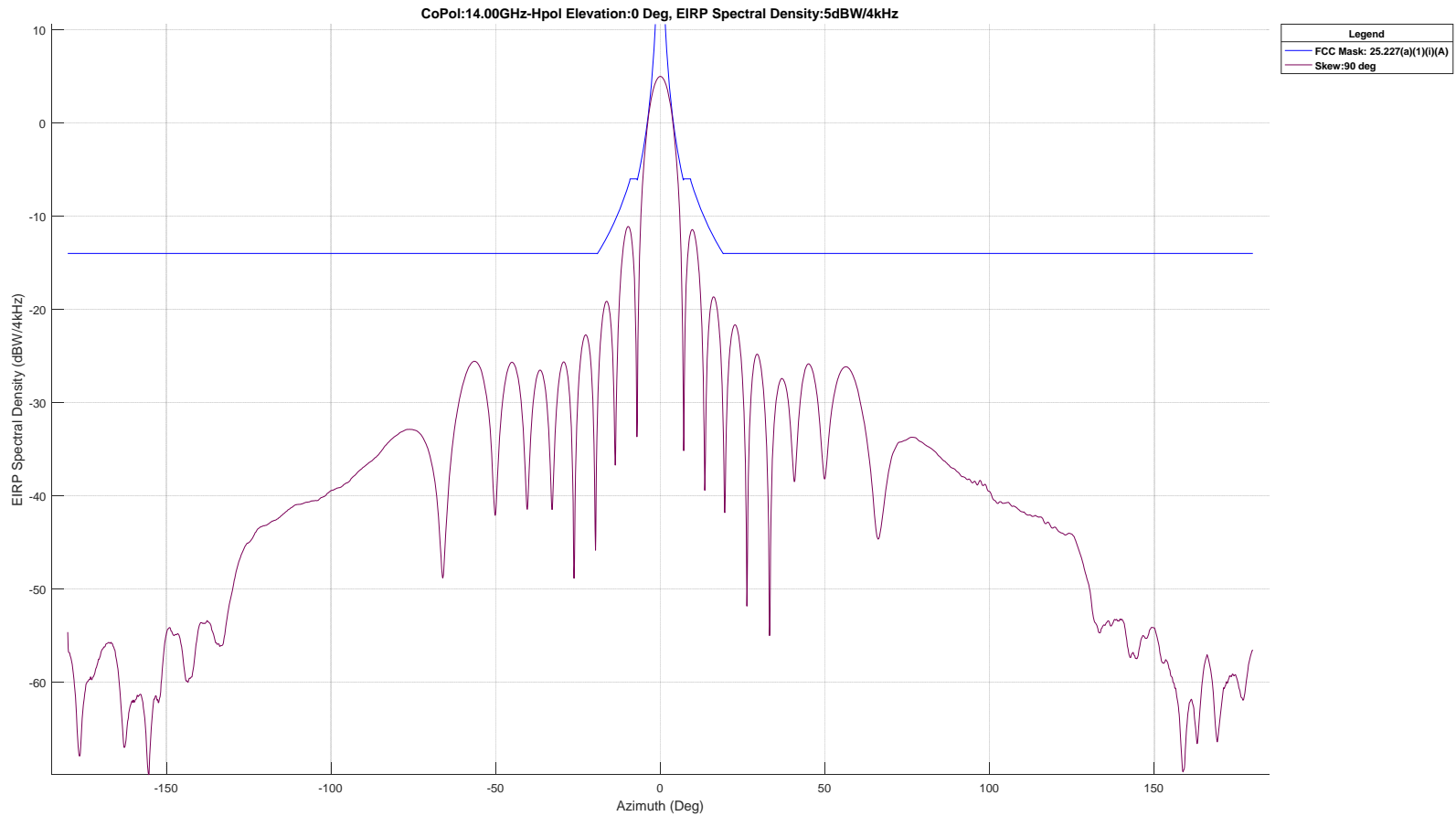
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# COPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:16.2DBW/4KHZ

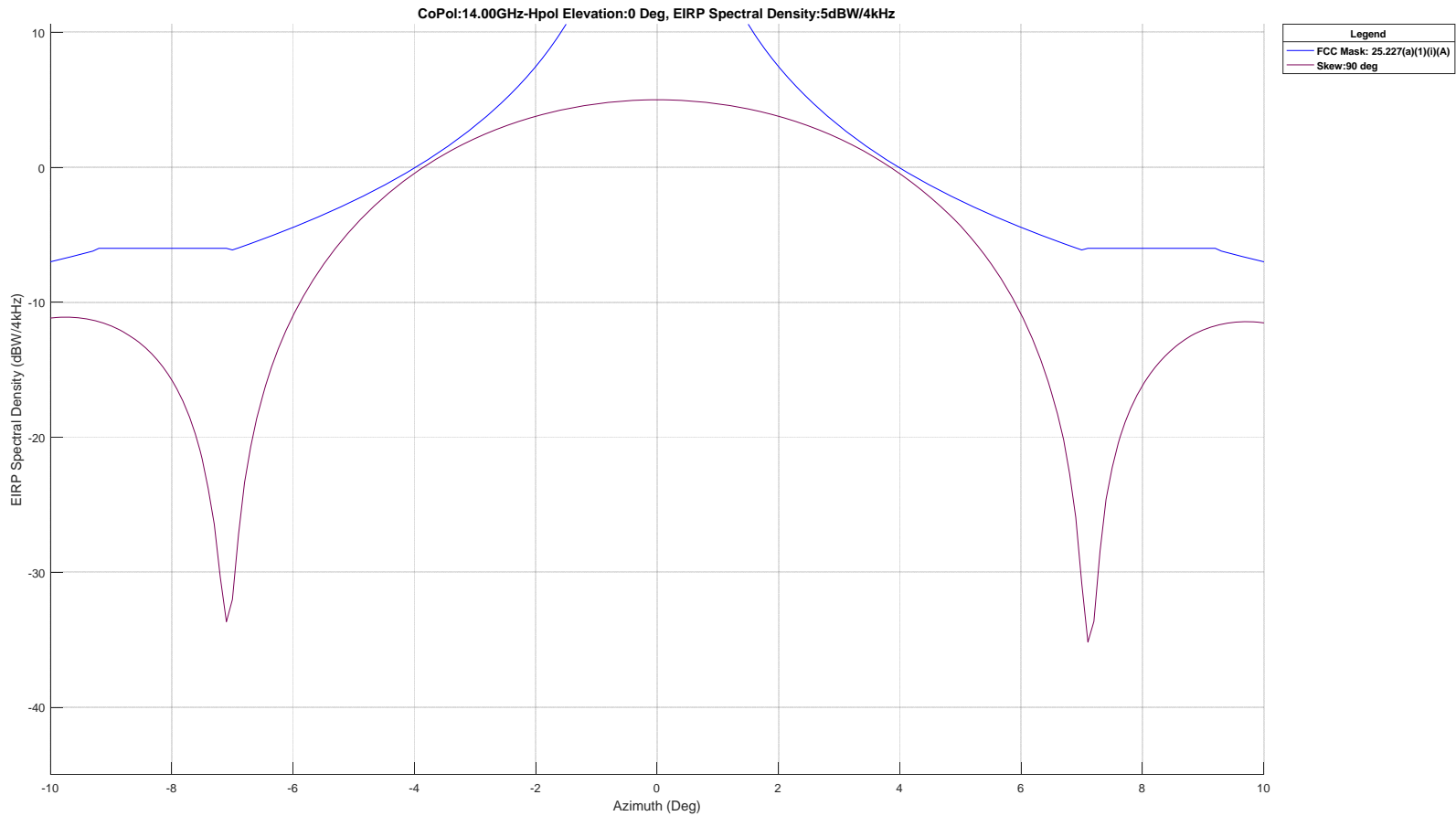


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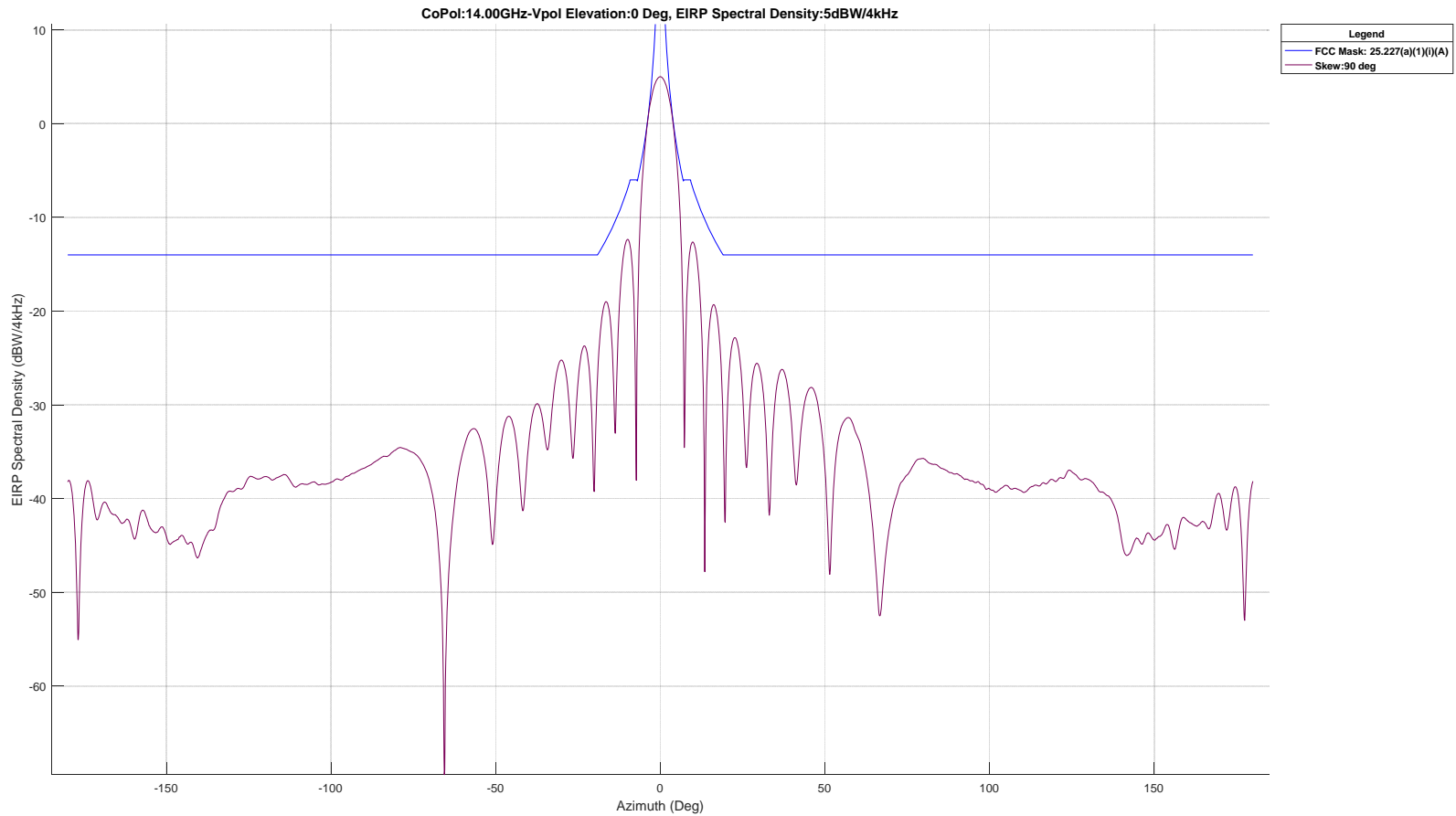




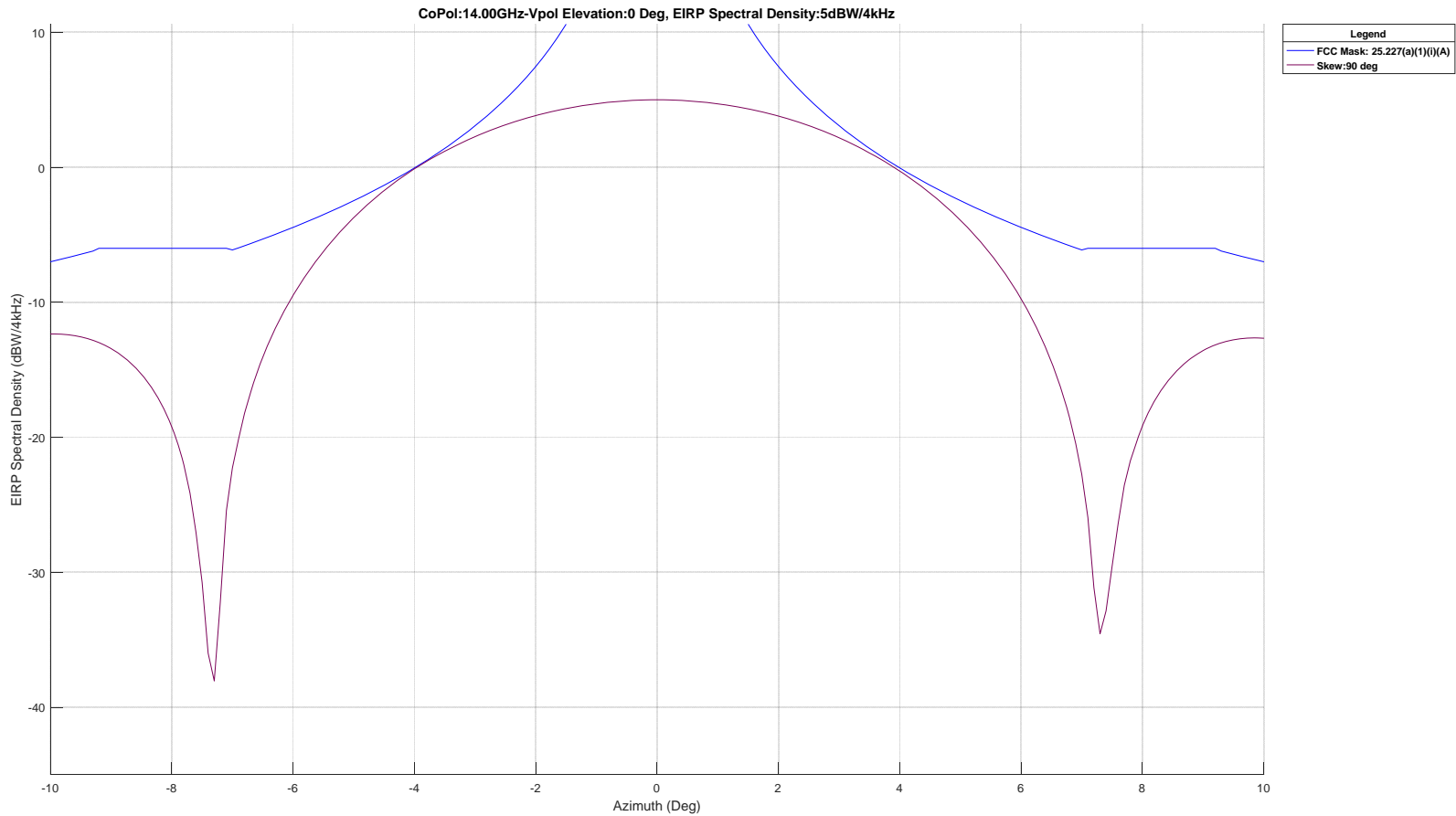
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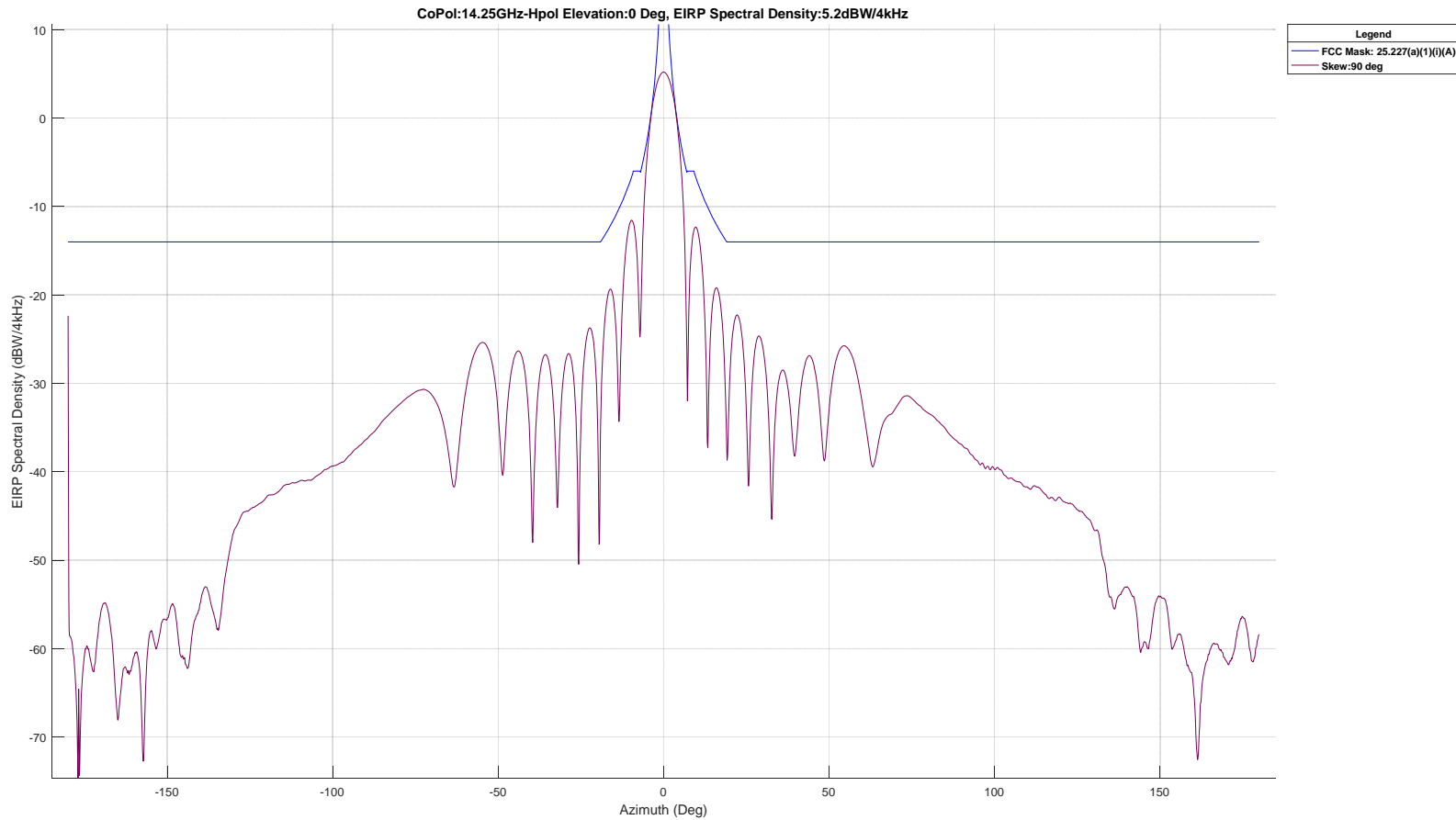
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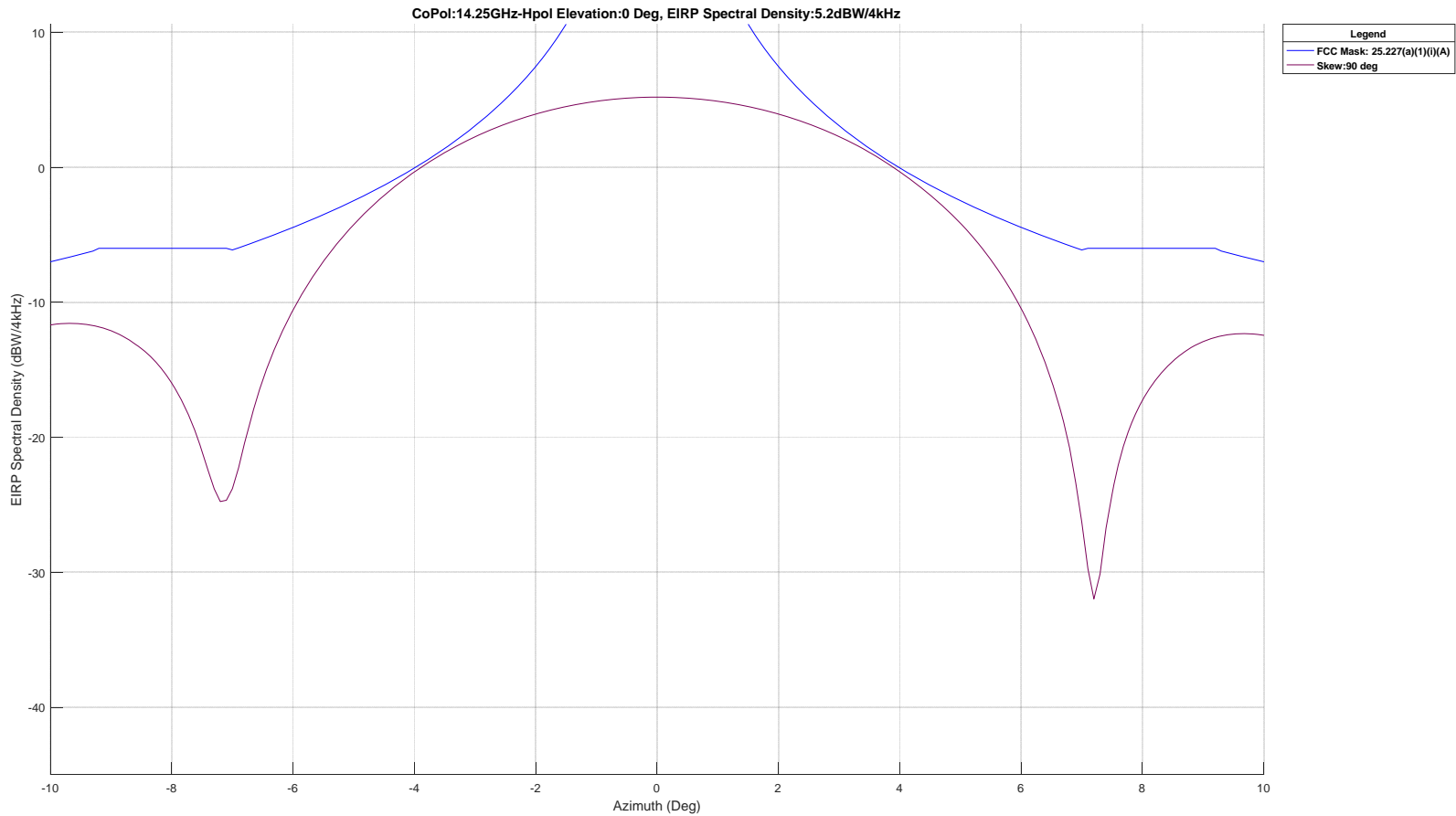
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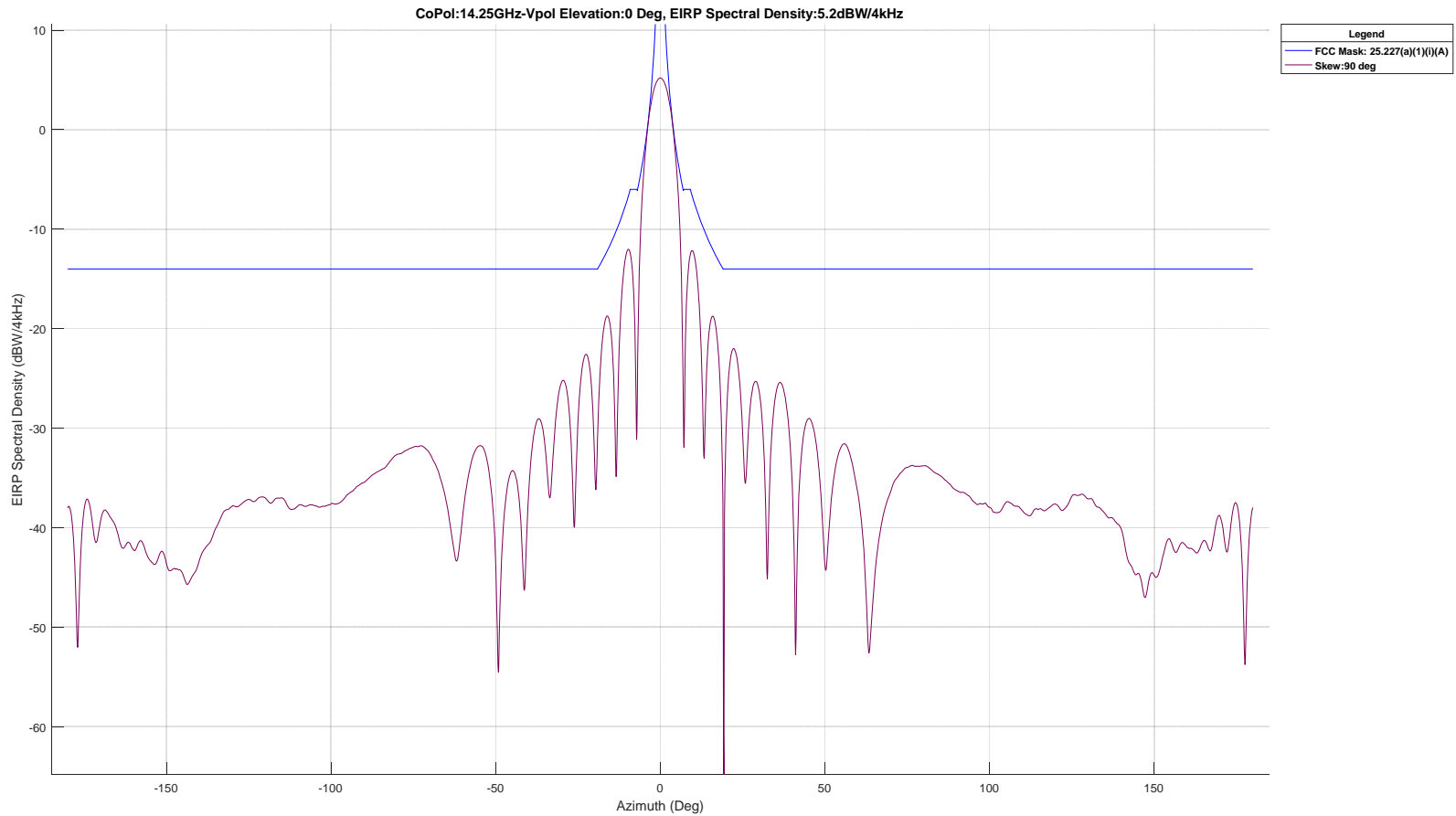
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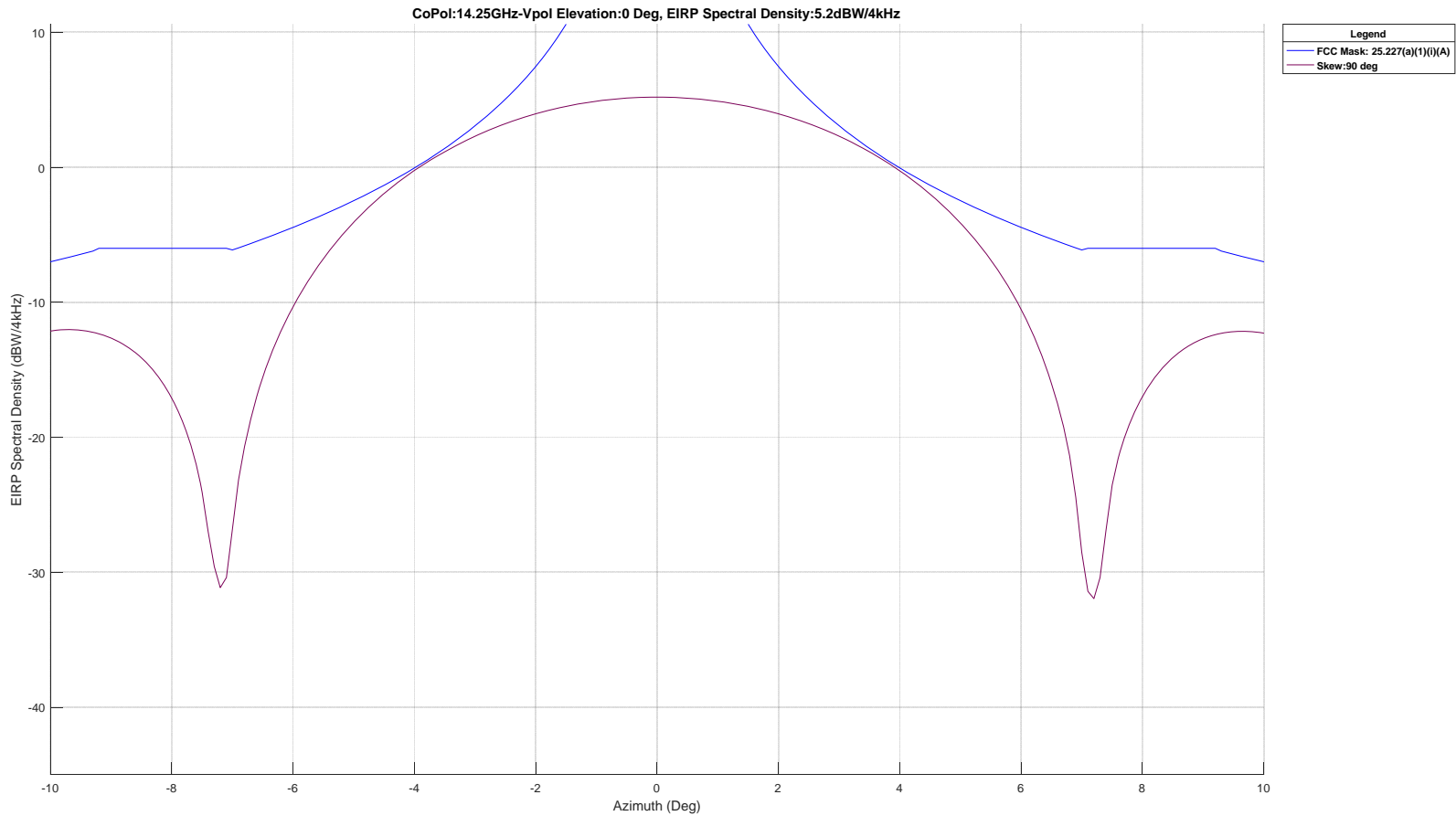
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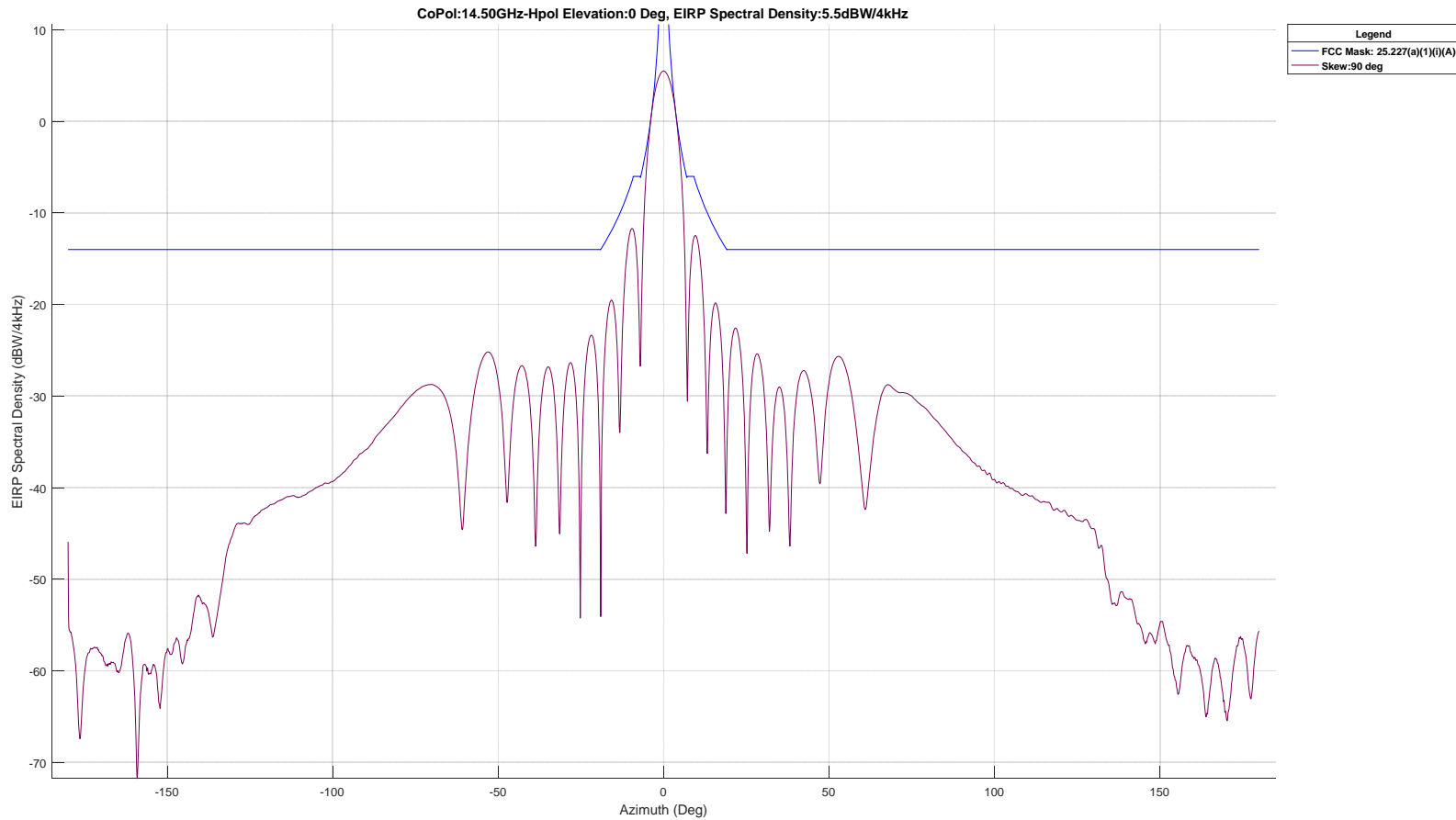
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# COPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:5.2DBW/4KHZ

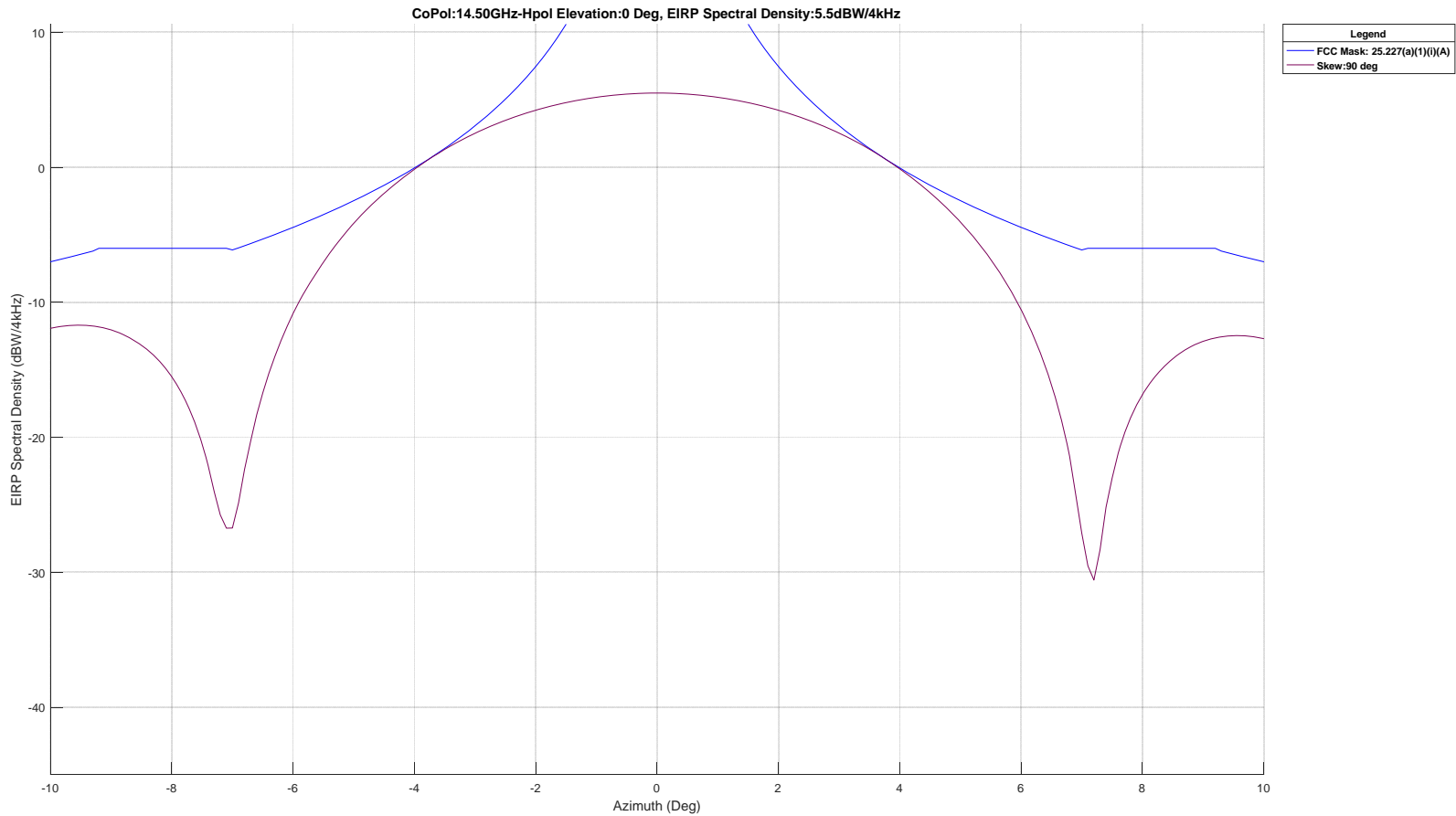


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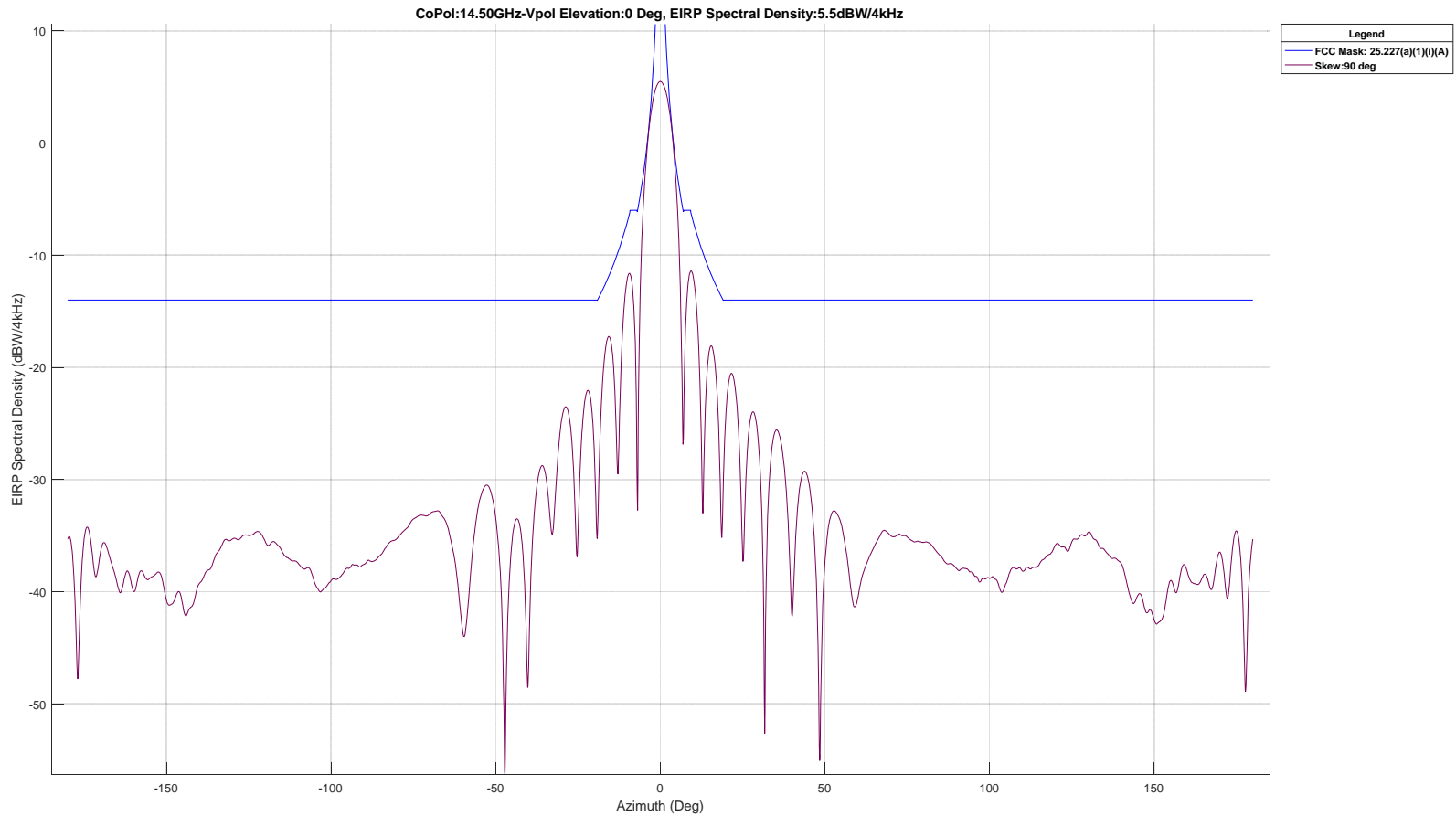




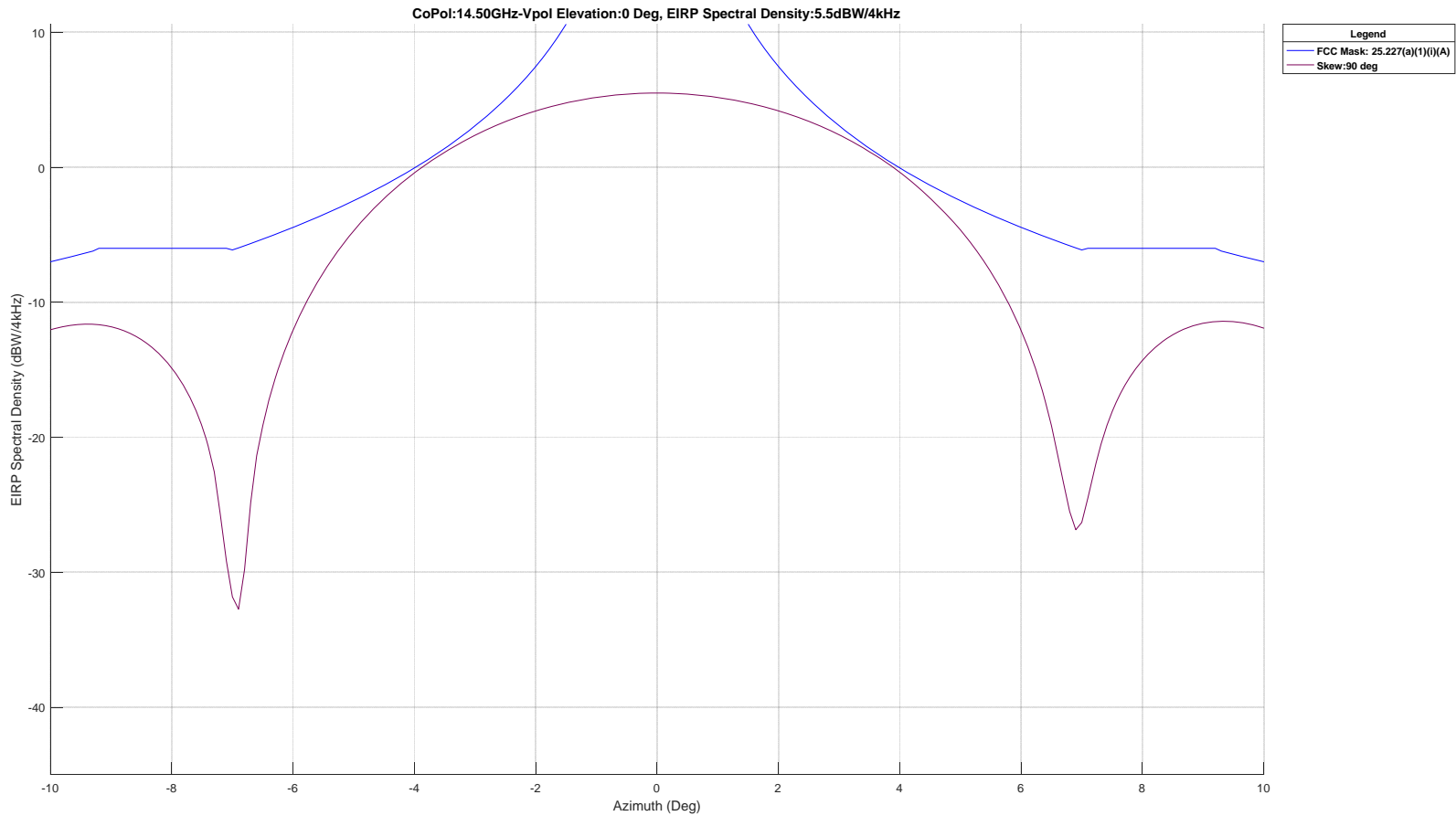
# COPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:5.5DBW/4KHZ



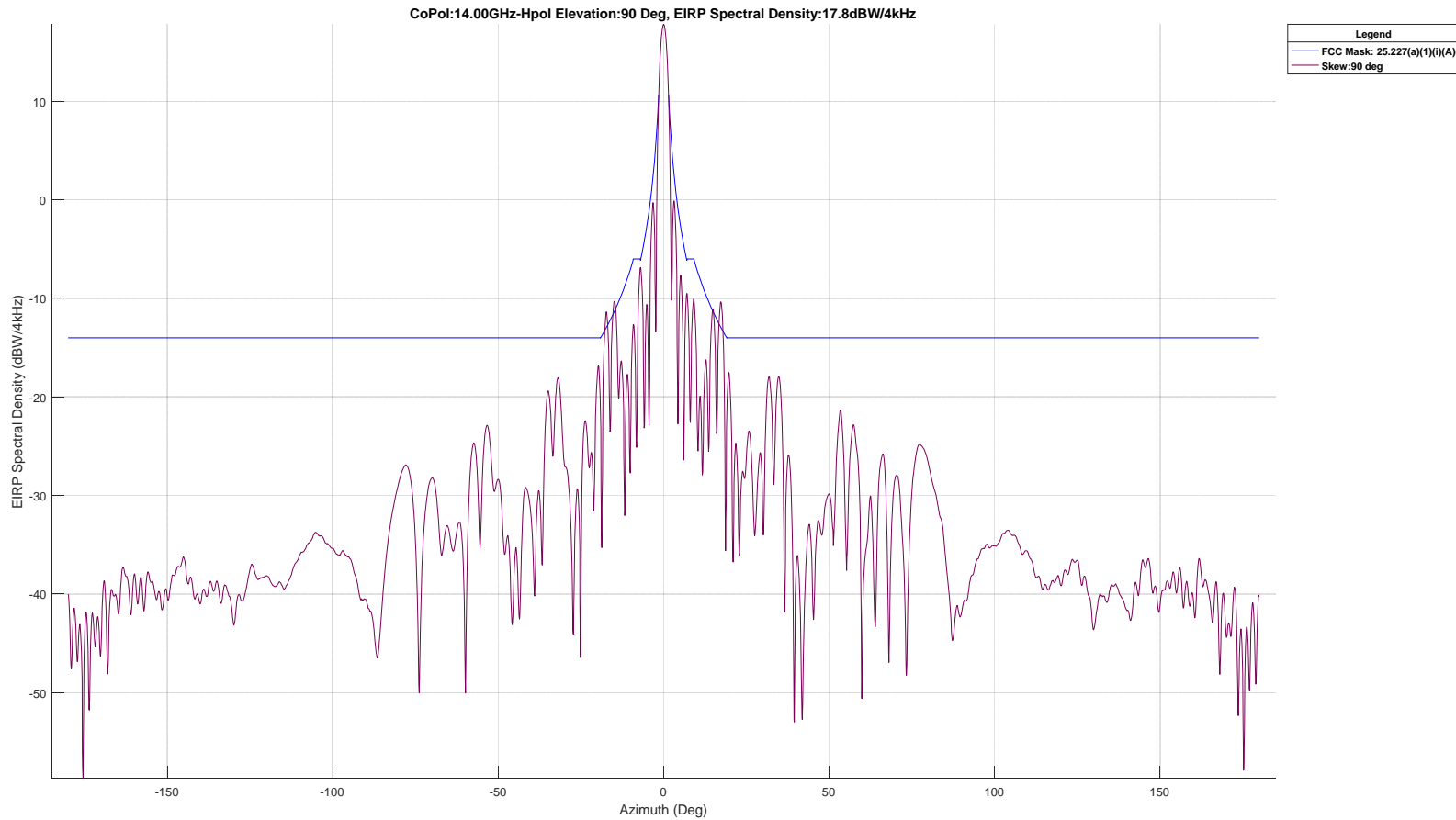
# COPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:5.5DBW/4KHZ



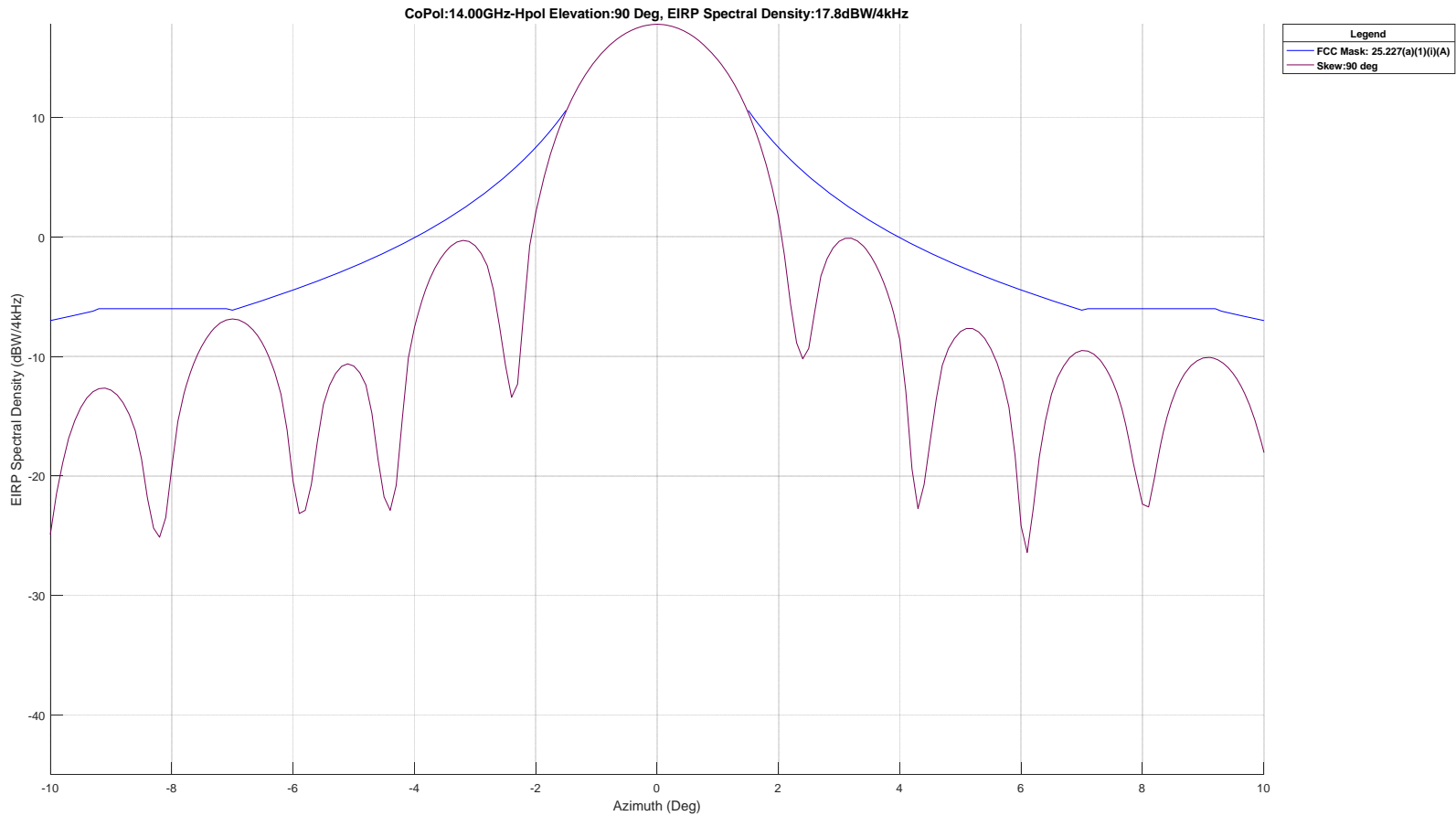
# COPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:5.5DBW/4KHZ



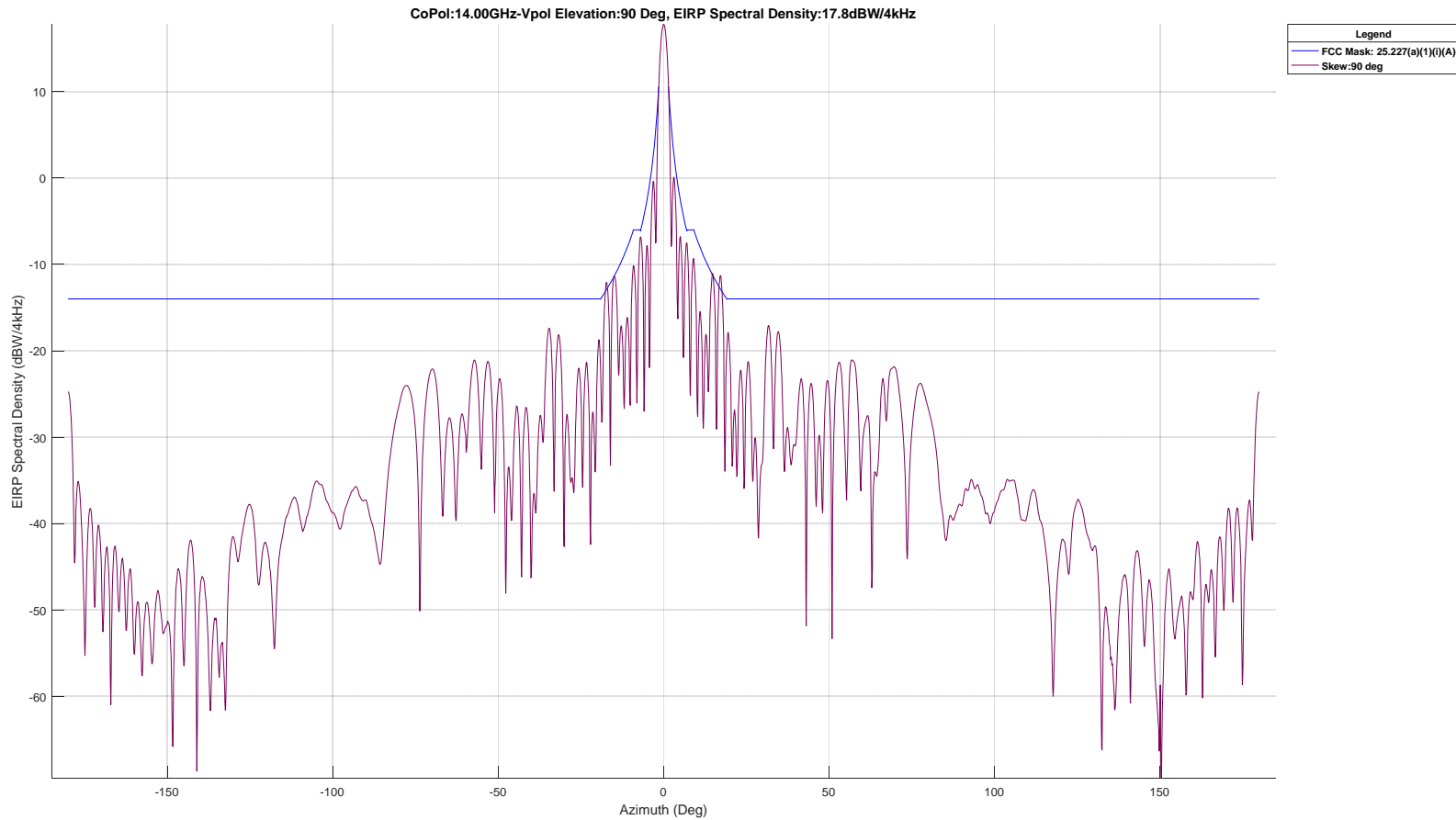
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ



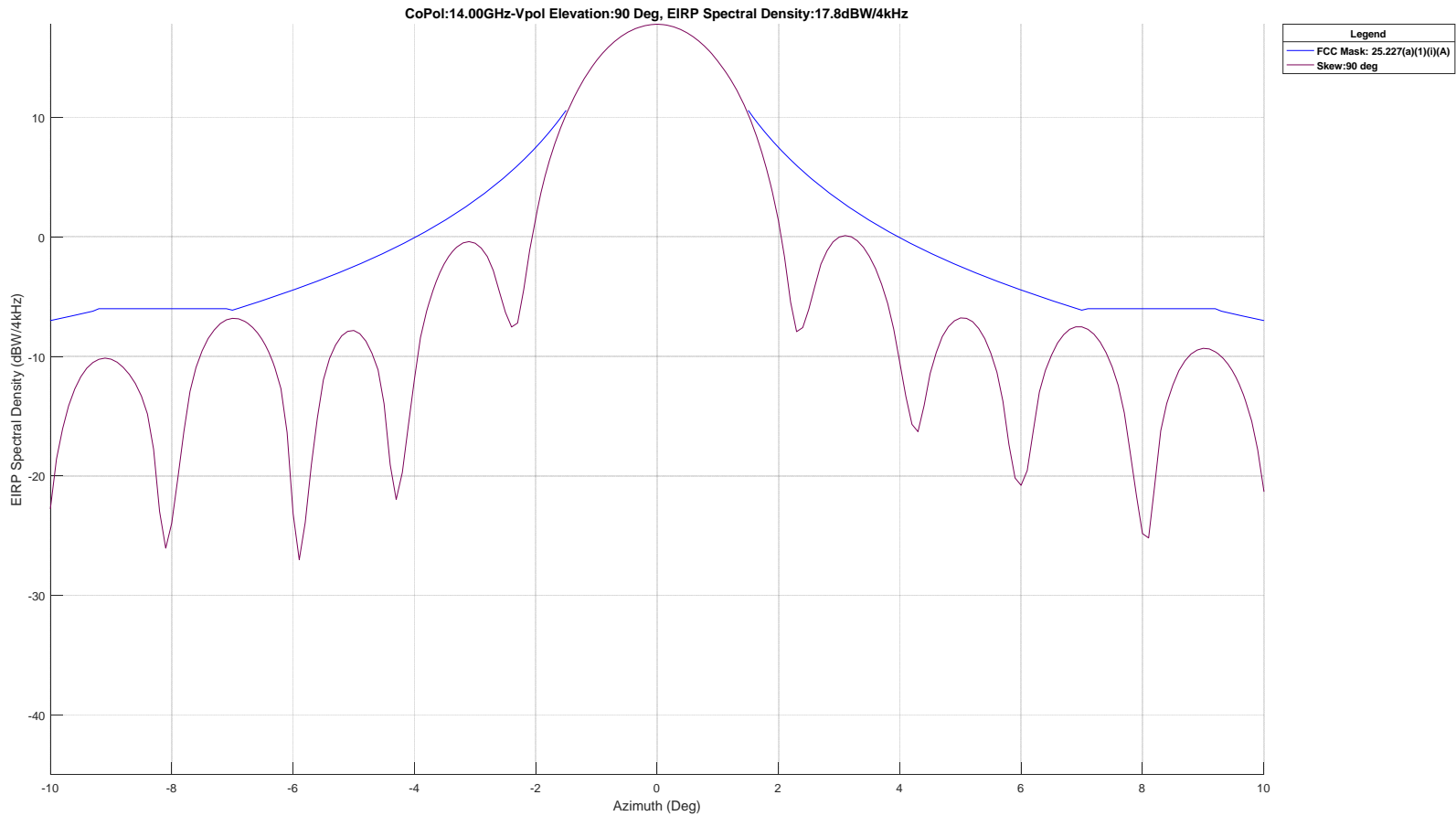
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ



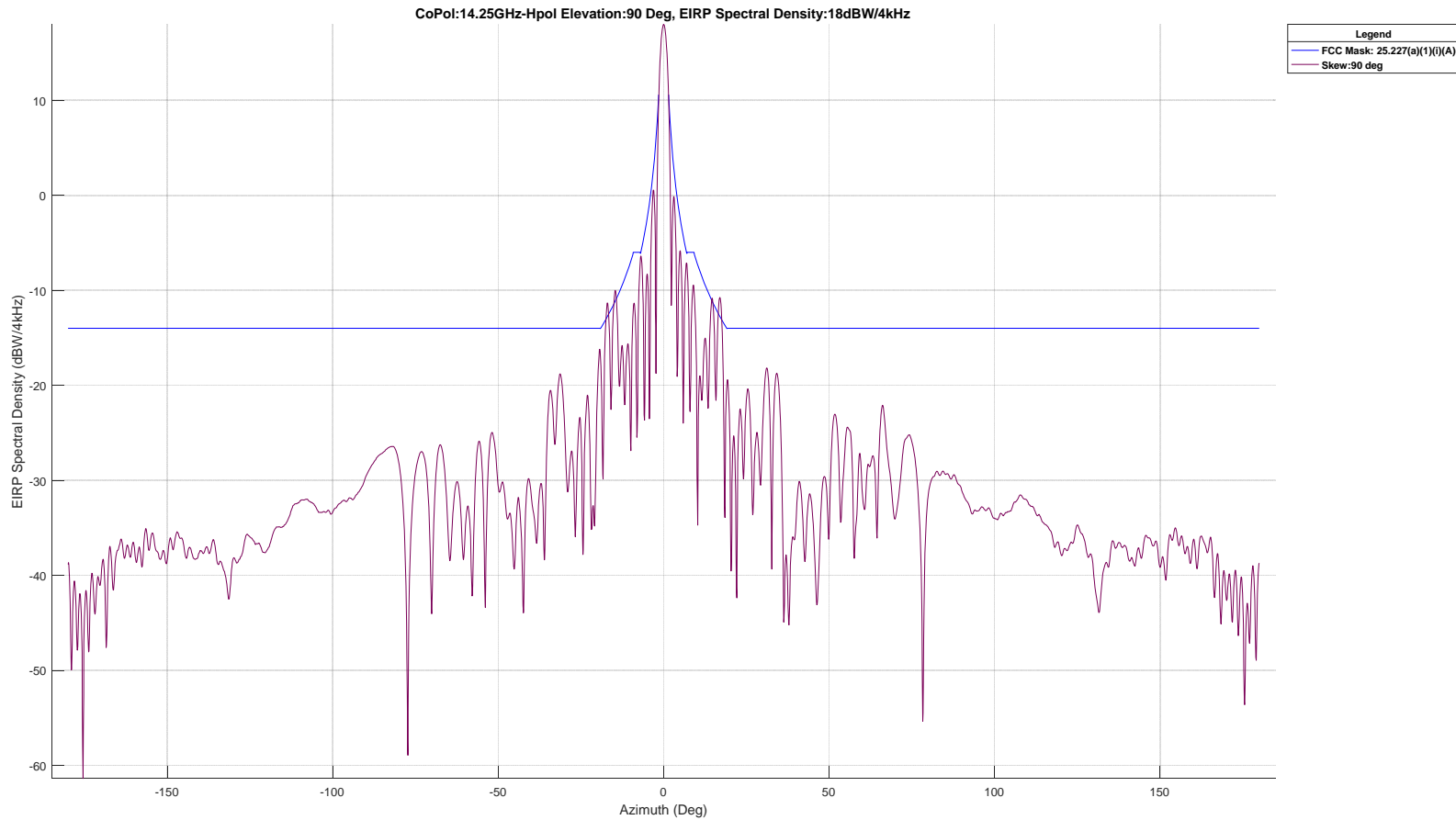
# COPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ



# COPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:17.8DBW/4KHZ

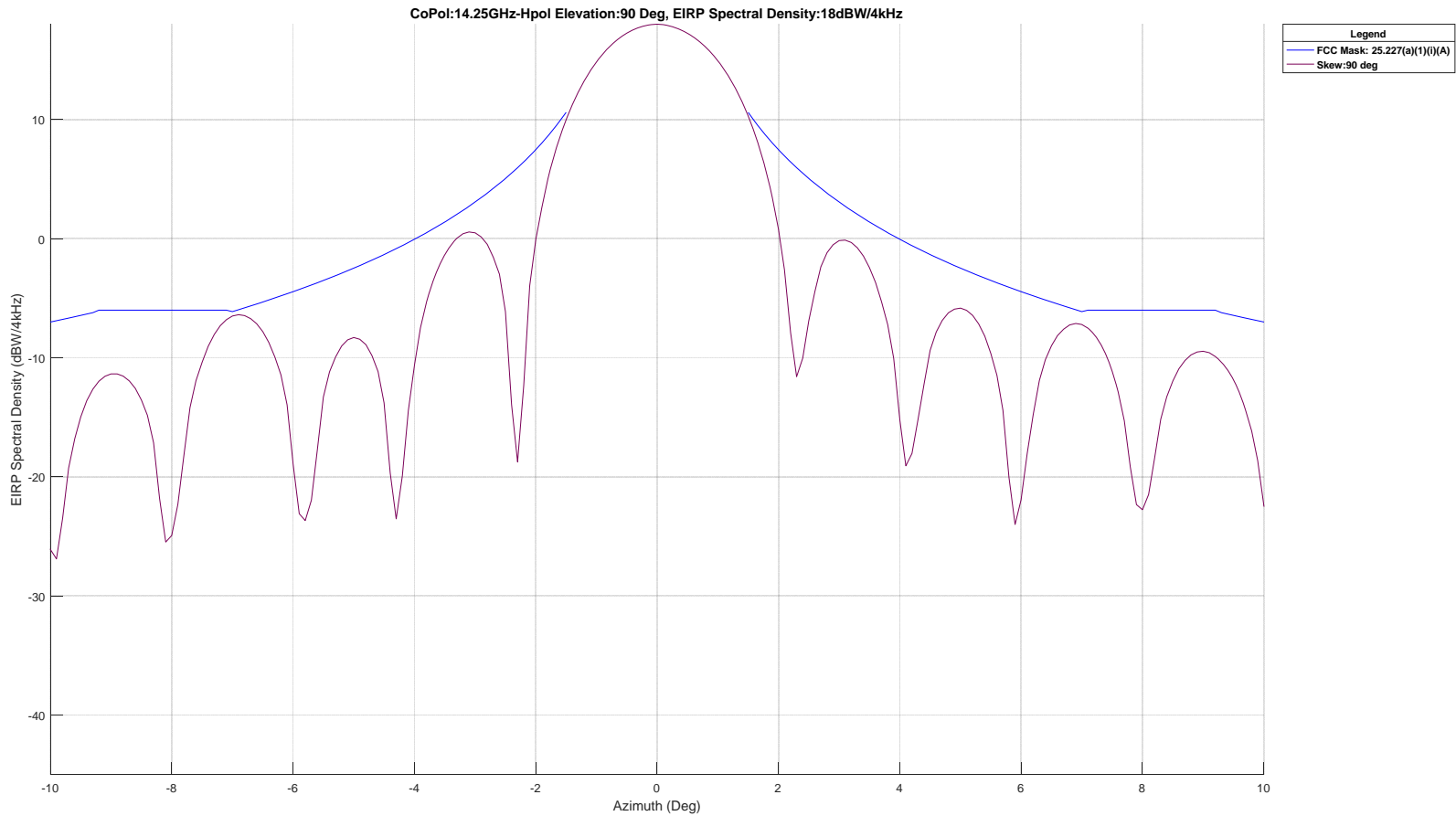


# COPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ

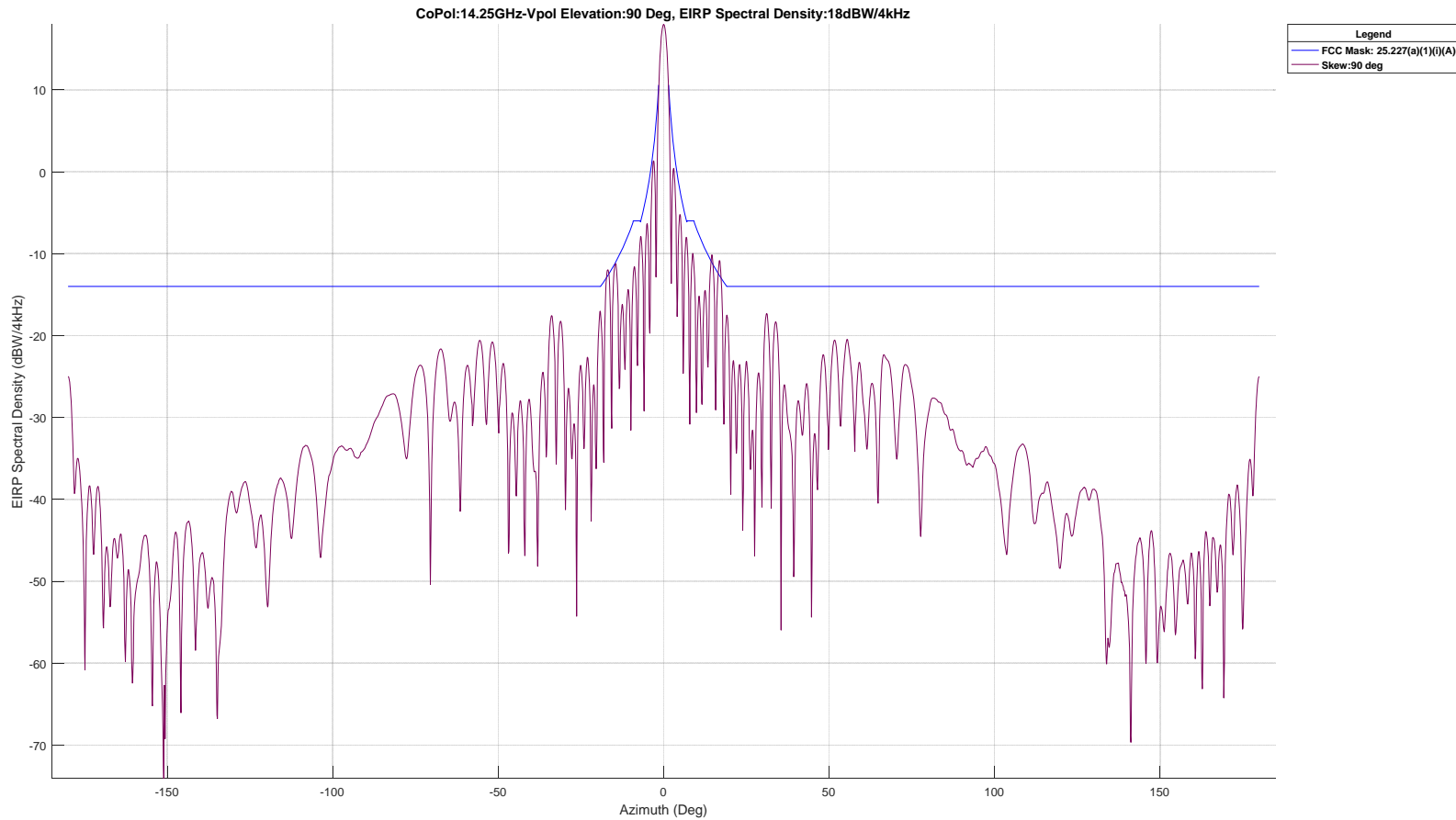




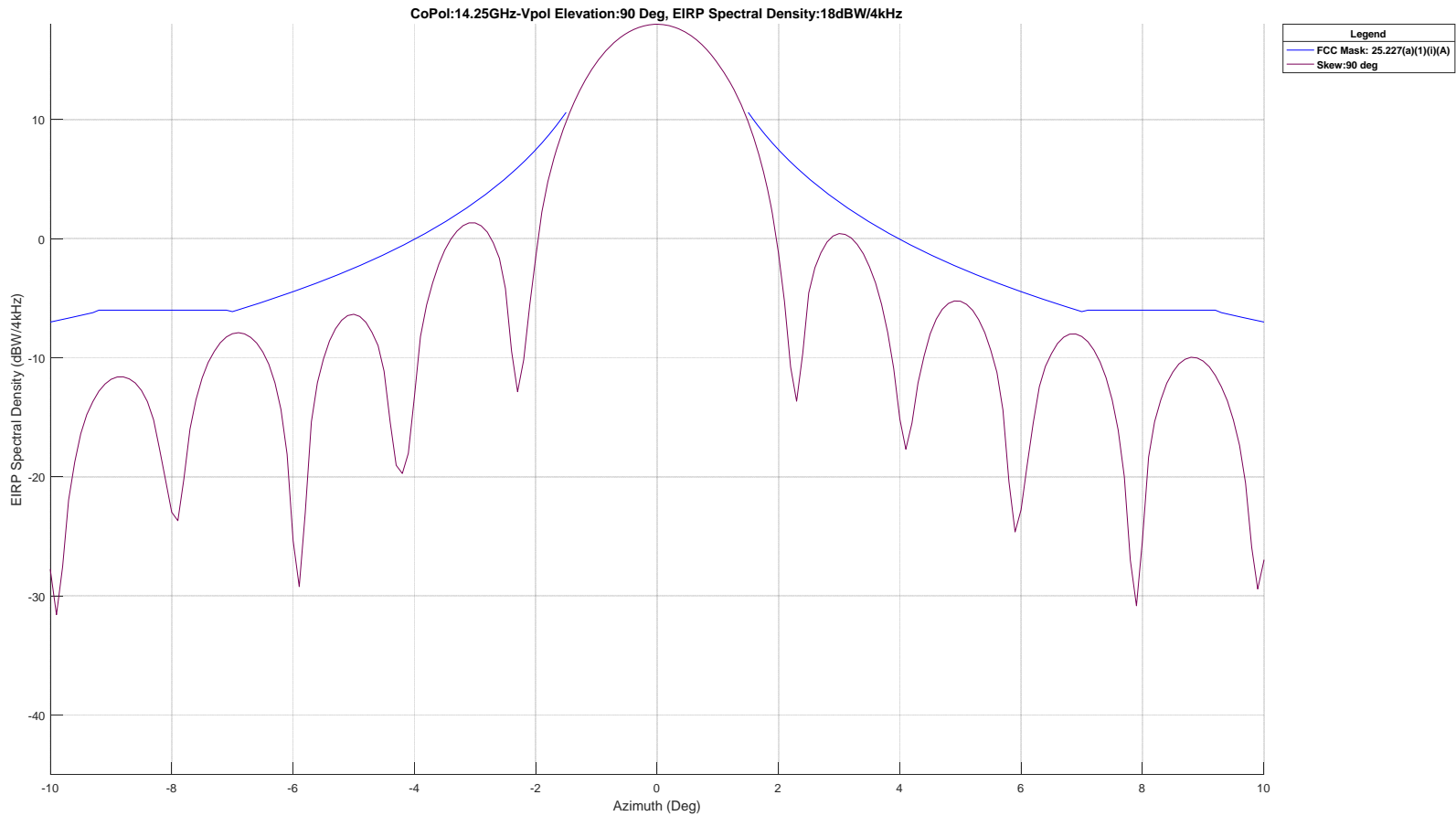
# COPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ



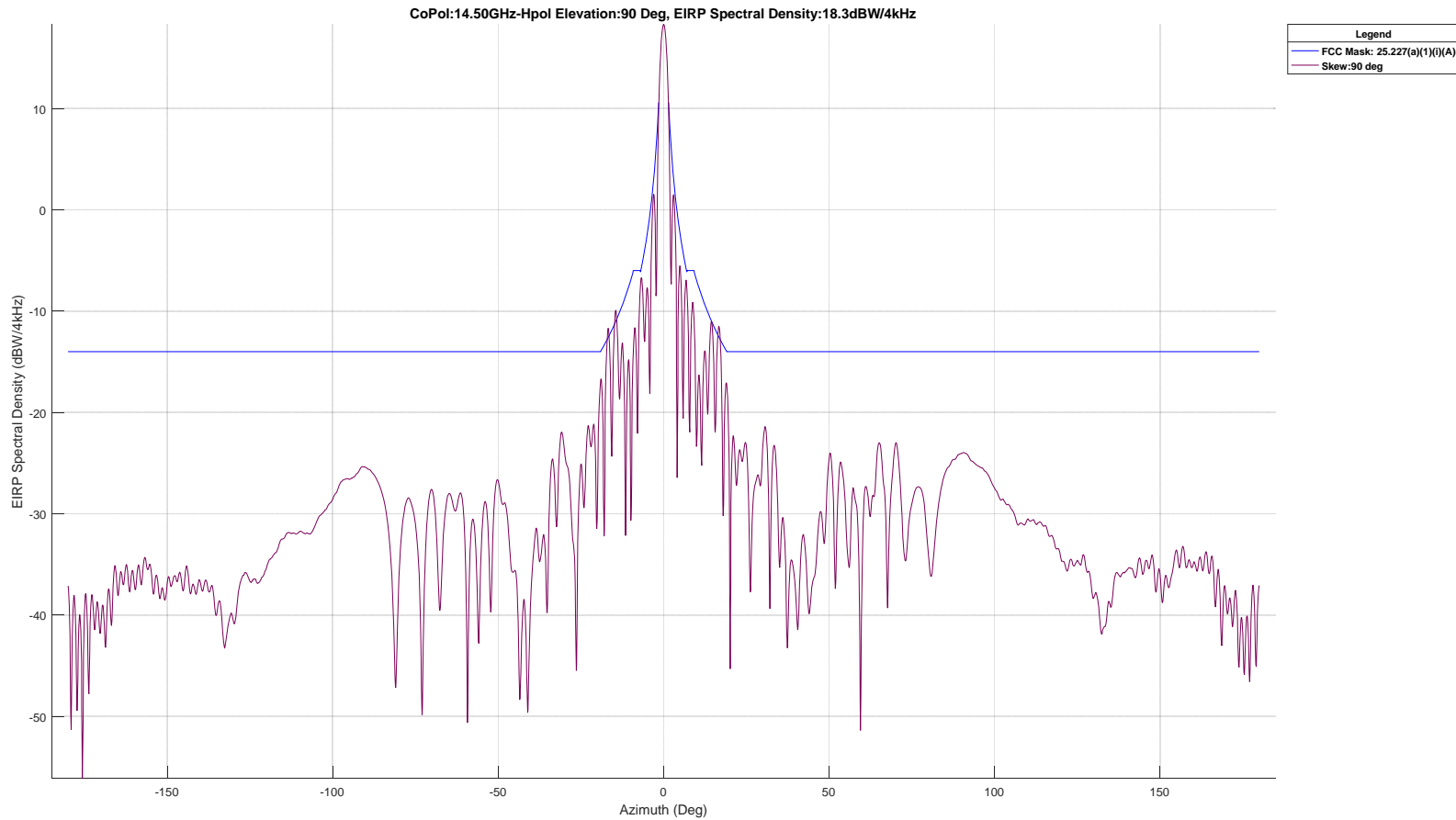
# COPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ



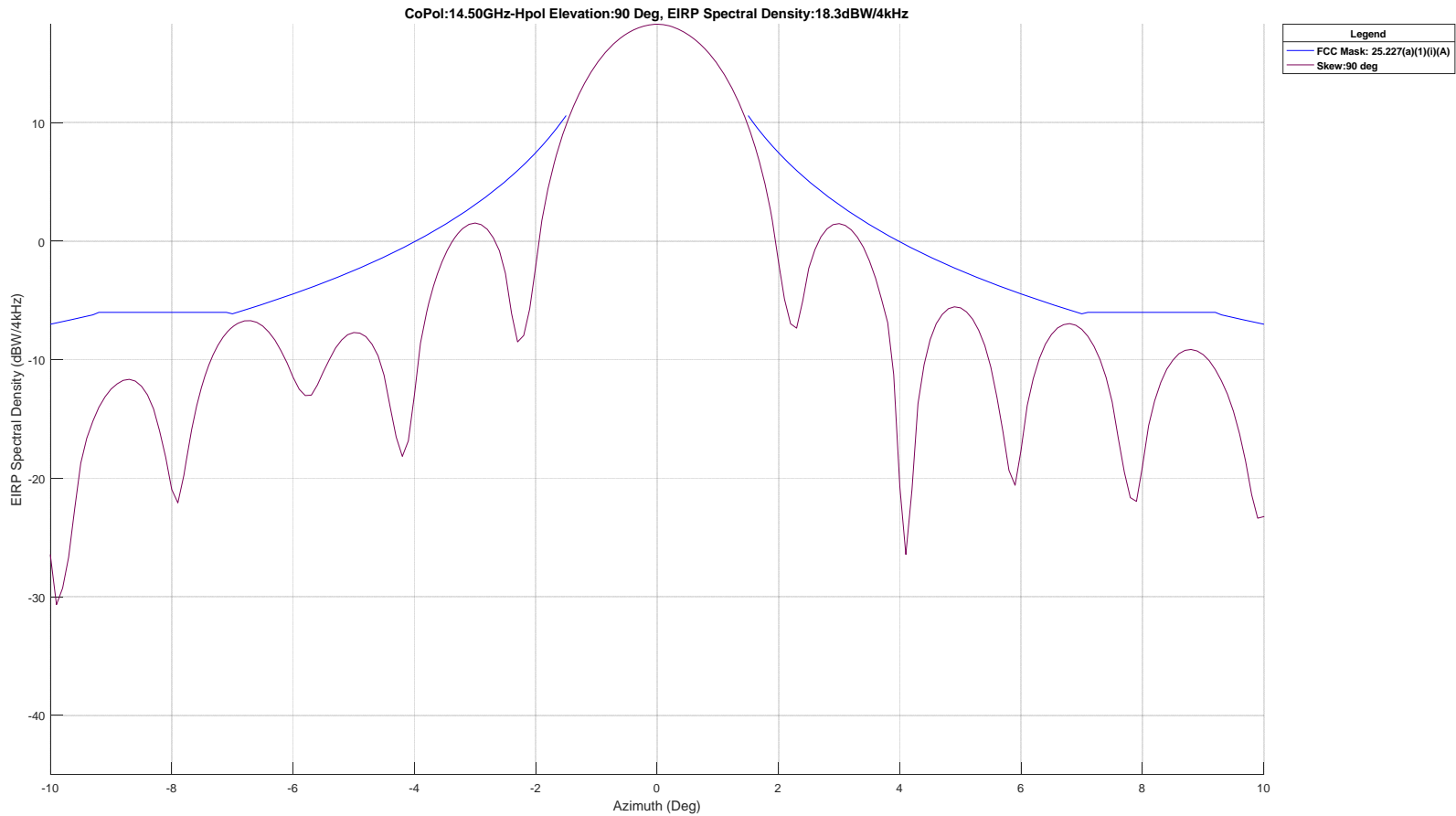
# COPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18DBW/4KHZ



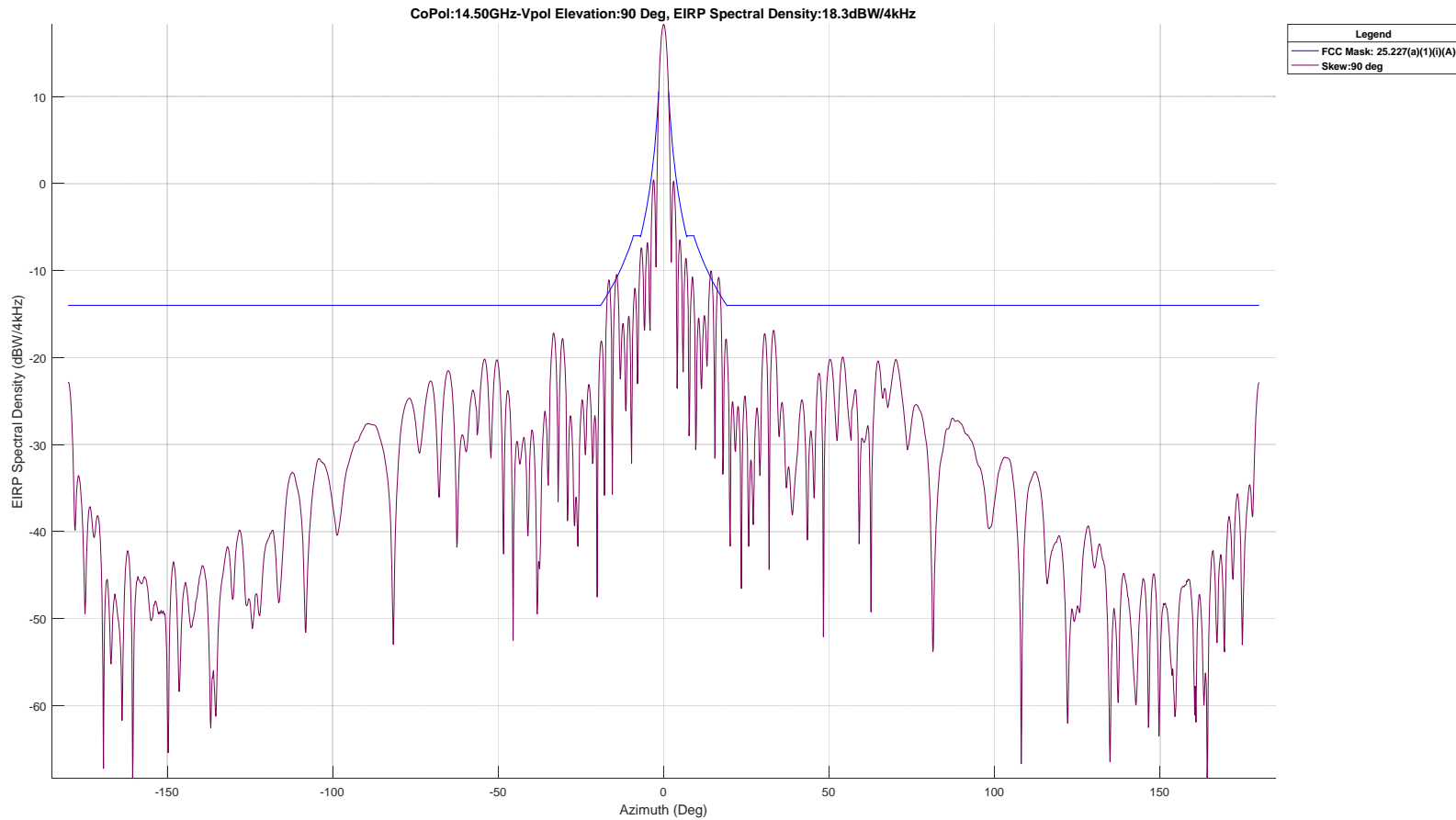
# COPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18.3DBW/4KHZ



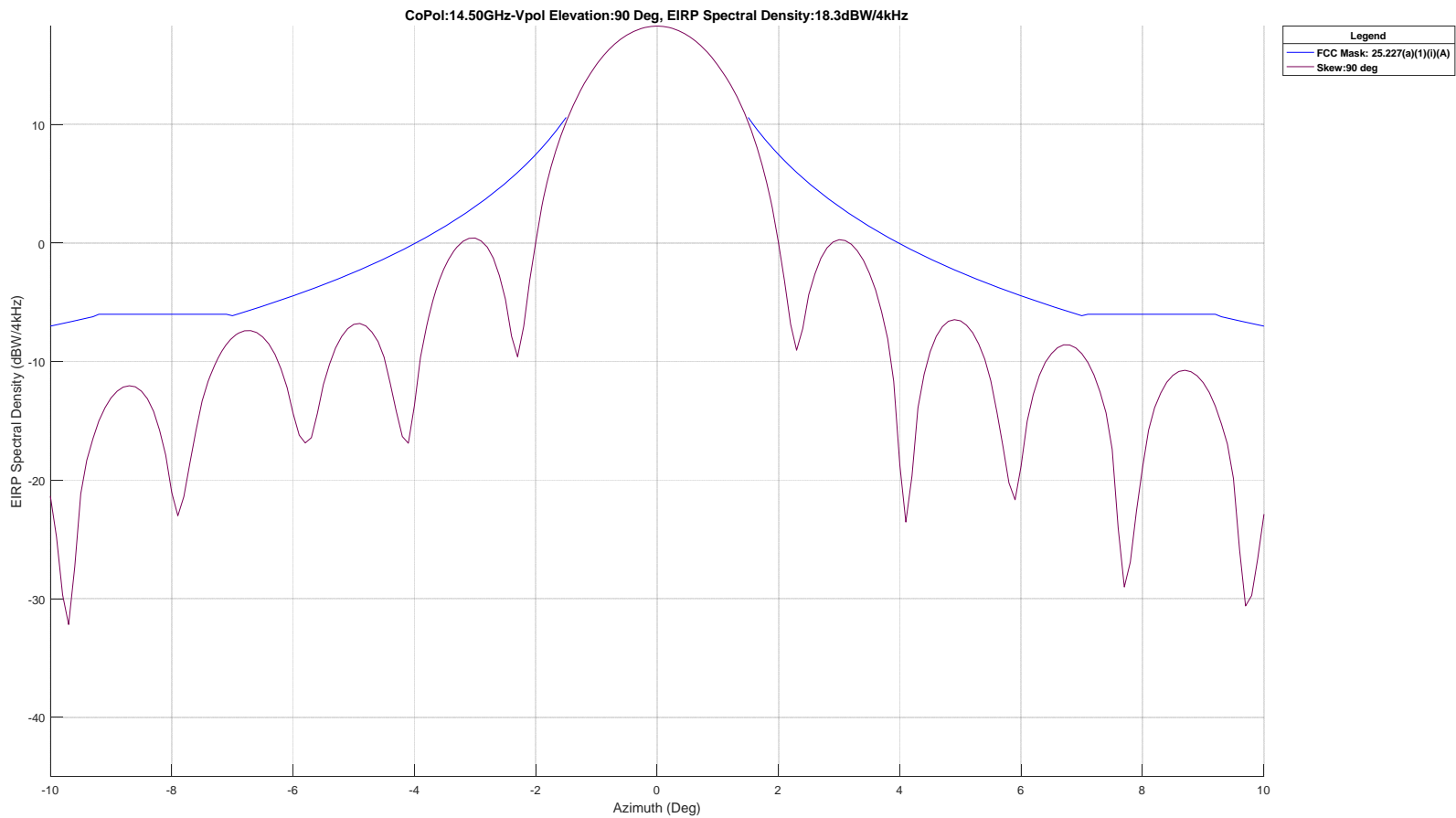
# COPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18.3DBW/4KHZ



# COPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18.3DBW/4KHZ



# COPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:18.3DBW/4KHZ



GSAA EIRP SPECTRAL DENSITY  
PLOTS – PERPENDICULAR PLANE  
TO GSO CO POL WITH  
25.227(A)(1)(I)(B) MASK





# DESCRIPTION

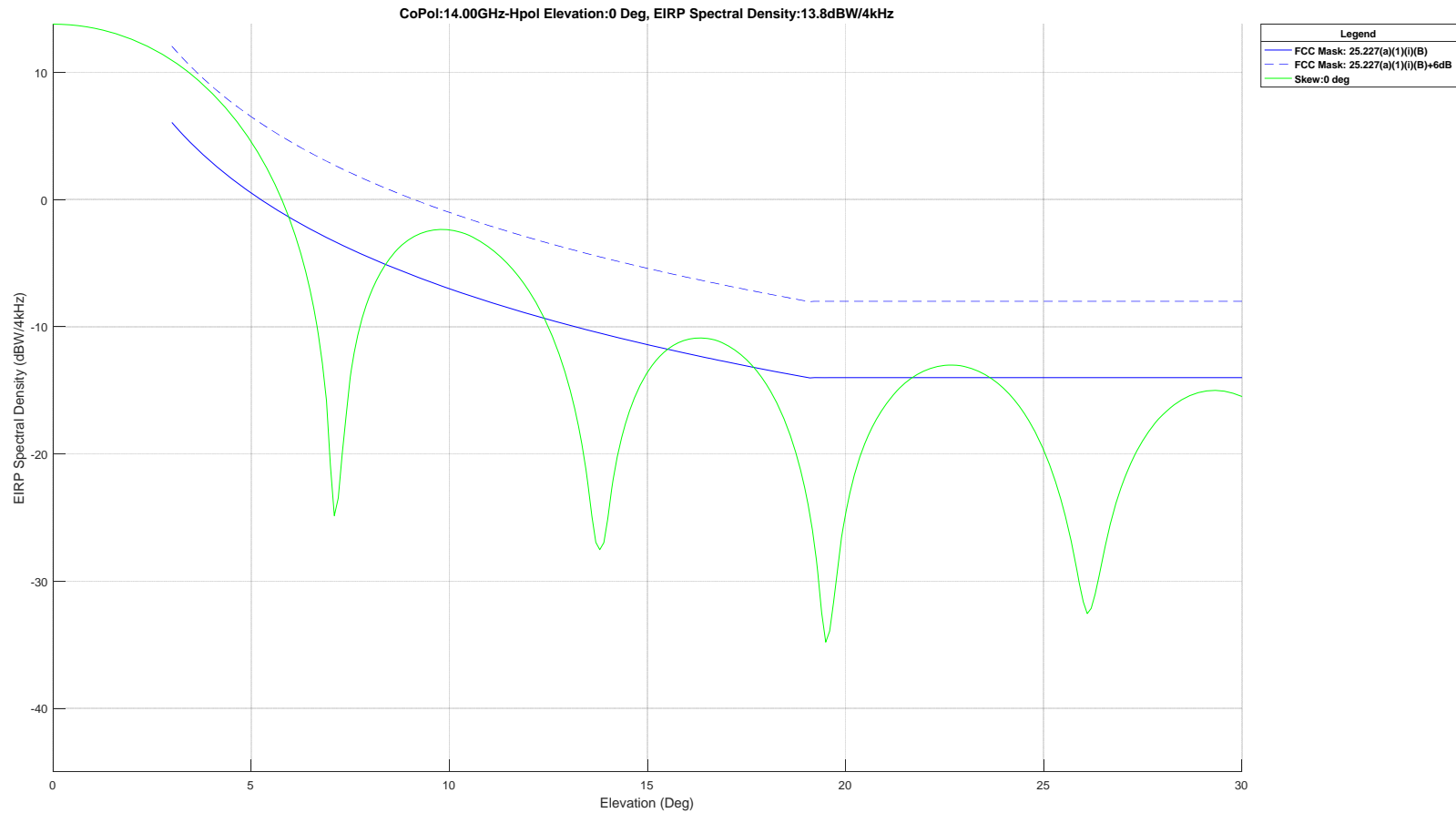
- EIRP Spectral Density plots are at 14.00 GHz, 14.25 GHz and 14.50 GHz for both vertical and horizontal polarization for the following Skew and Elevation Angles (in **BOLD**) as it is mapped to the maximum EIRP Spectral Density in dBW/4kHz in the table on the next page:

# DESCRIPTION

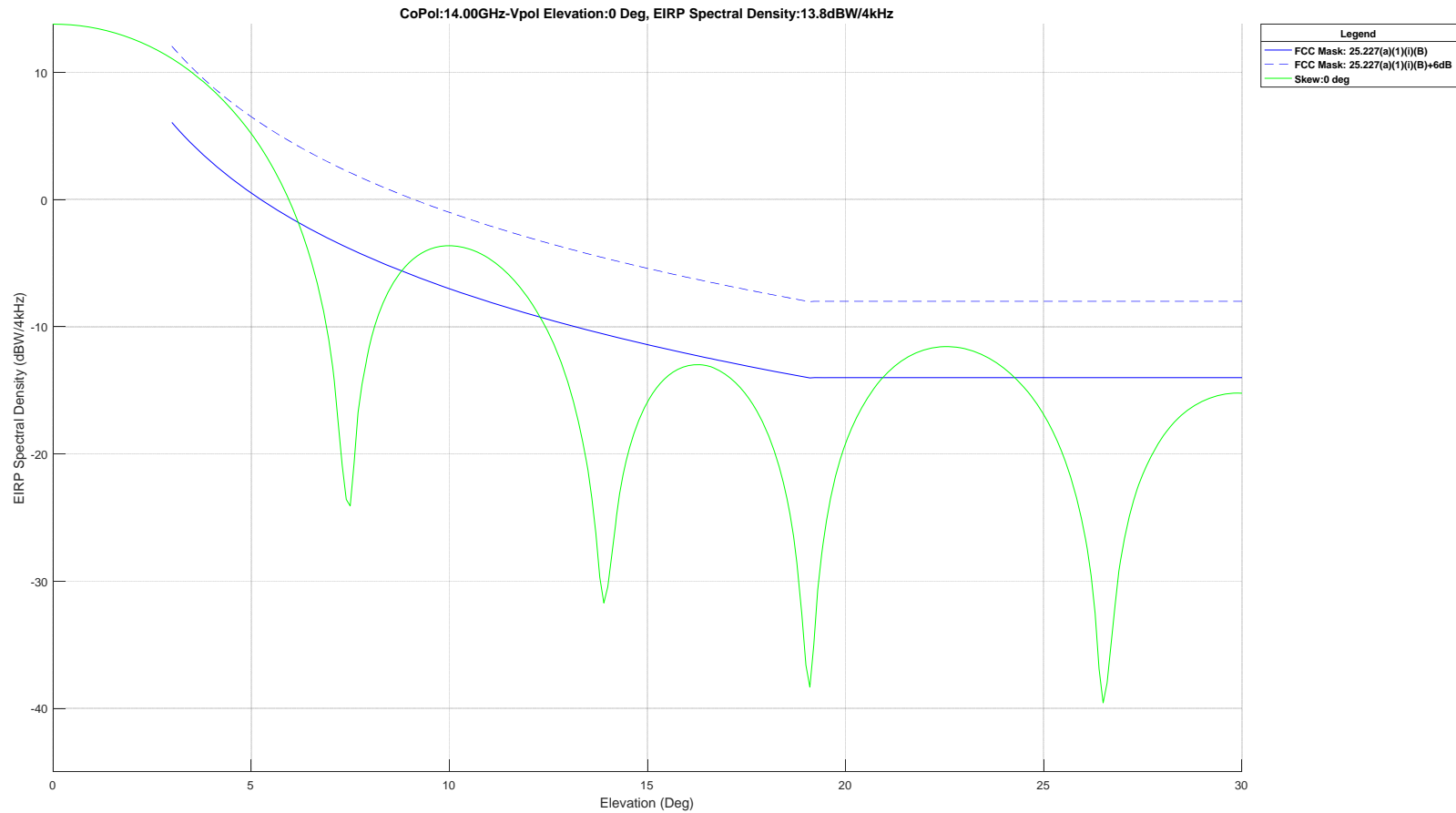
Perpendicular Plane to GSO Co Pol ESD Plots as they comply to FCC mask 25.227(a)(1)(i)(B)

		GSA MAXIMUM EIRP SPECTRAL DENSITY (dBW/4kHz)																	
Elevation[deg]\Skew[deg]	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7	26.4	23.3	21.7
5	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7	26.4	23.3	21.7
10	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7	26.4	23.3	21.7
15	14.3	14.3	14.7	15.7	16.9	18.4	20.3	22.6	22.9	23.6	24.5	25.4	25.2	25.3	26	26.4	27.2	24.9	22.3
20	14.3	14.3	14.7	15.7	16.9	18.4	20.3	22.6	22.9	23.6	24.5	25.4	25.2	25.3	26	26.4	27.2	24.9	22.3
25	14.3	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7	26.4	23.3
30	14.3	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7	26.4	23.3
35	14.3	14.3	14.3	14.7	15.7	16.9	18.4	20.3	22.6	22.9	23.6	24.5	25.4	25.2	25.3	26	26.4	27.2	24.9
40	14.3	14.3	14.3	14.7	15.7	16.9	18.4	20.3	22.6	22.9	23.6	24.5	25.4	25.2	25.3	26	26.4	27.2	24.9
45	14.3	14.3	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7	26.4
50	14.3	14.3	14.3	14.3	14.7	15.7	16.9	18.4	20.3	22.6	22.9	23.6	24.5	25.4	25.2	25.3	26	26.4	27.2
55	14.3	14.3	14.3	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6	26	26.7
60	14.3	14.3	14.3	14.3	14.3	14.7	15.7	16.9	18.4	20.3	22.6	22.9	23.6	24.5	25.4	25.2	25.3	26	26.4
65	14.3	14.3	14.3	14.3	14.3	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6	23.2	24.1	24.9	25.7	25.1	25.6
70	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.7	15.7	16.9	18.4	19.3	22.6	22.9	23.2	24.5	25.4	25.2
75	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.5	15.2	16.3	17.6	19.3	21.4	22.6
80	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
85	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
90	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3

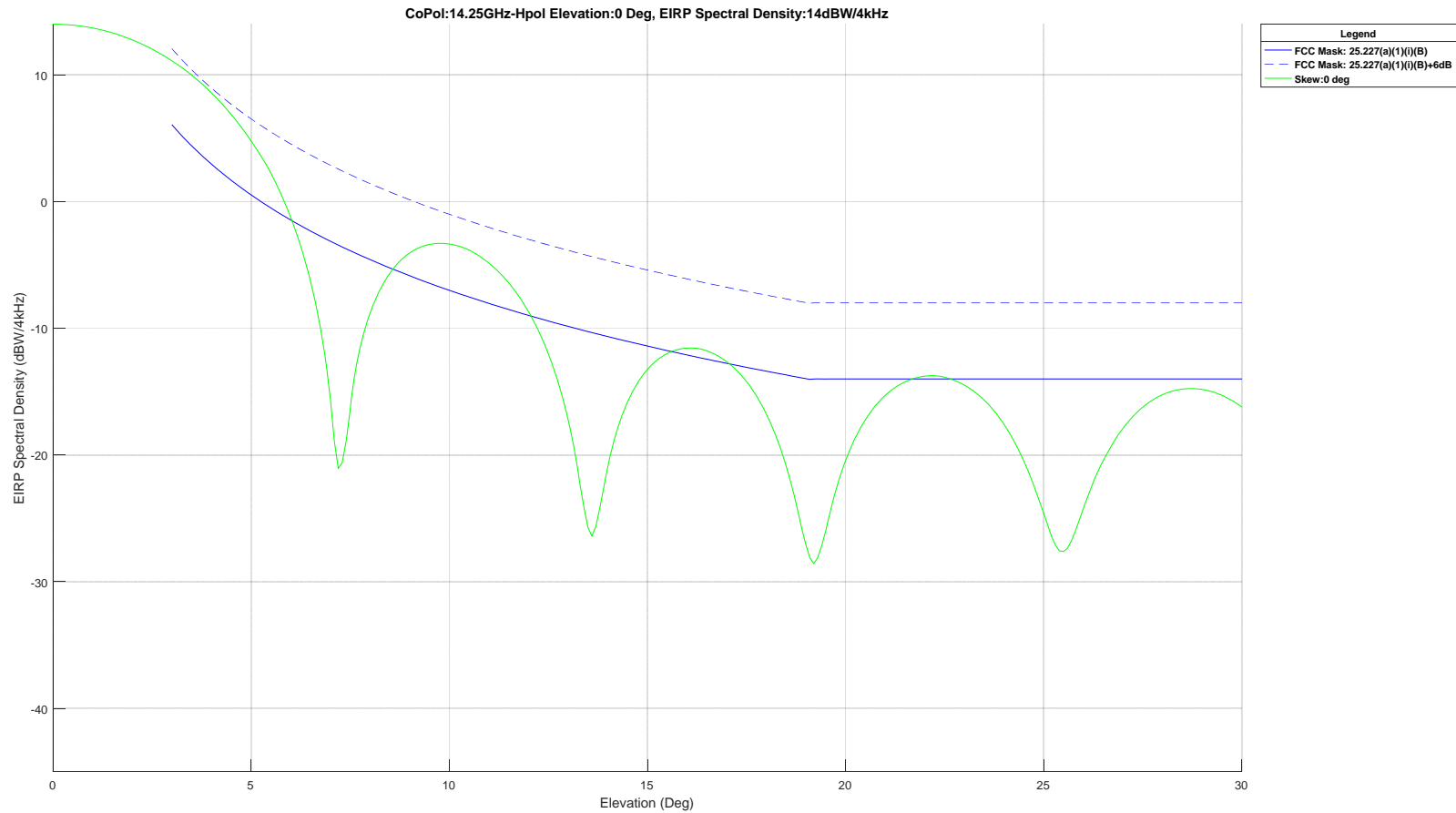
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:13.8DBW/4KHZ



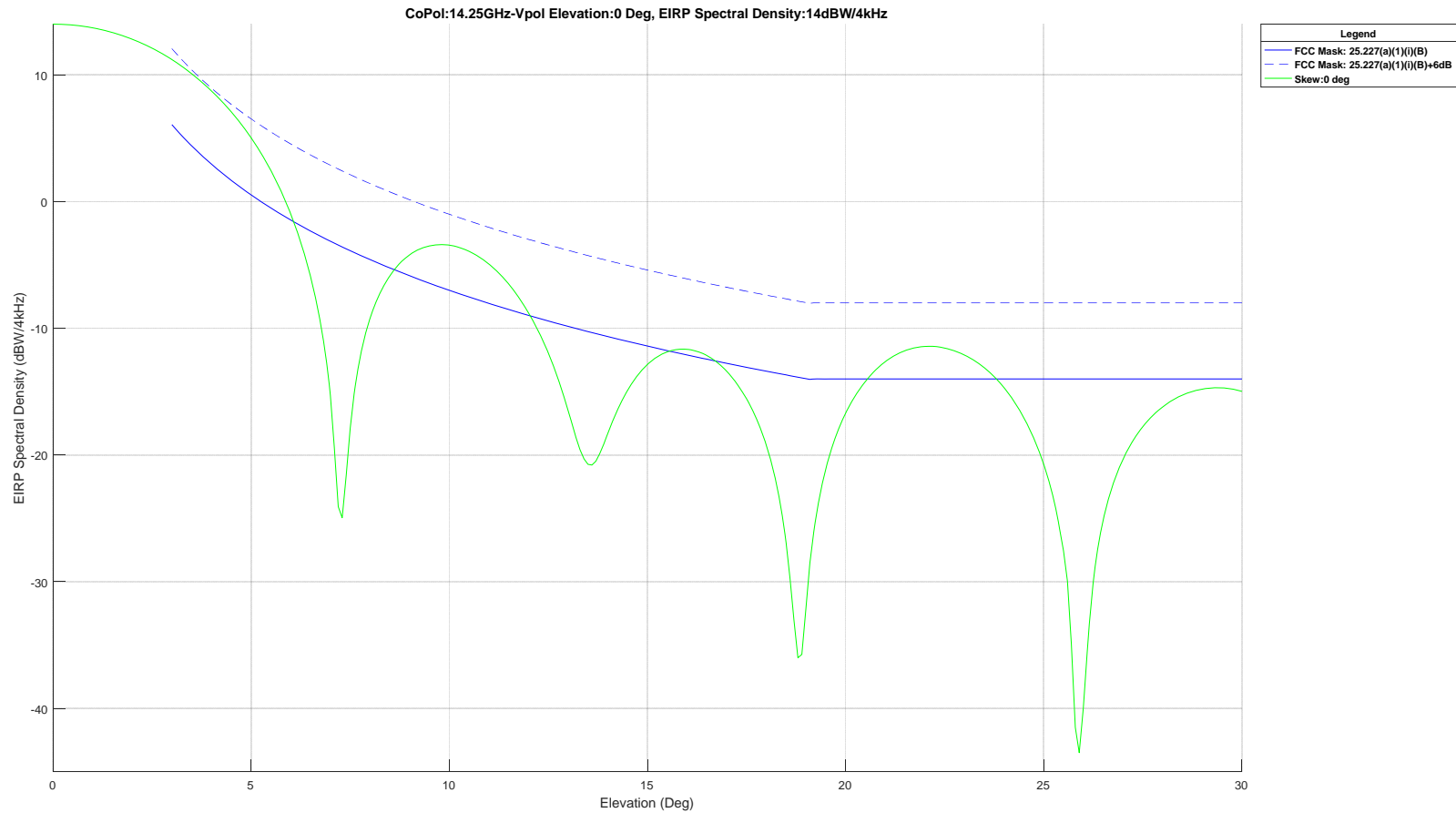
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:13.8DBW/4KHZ



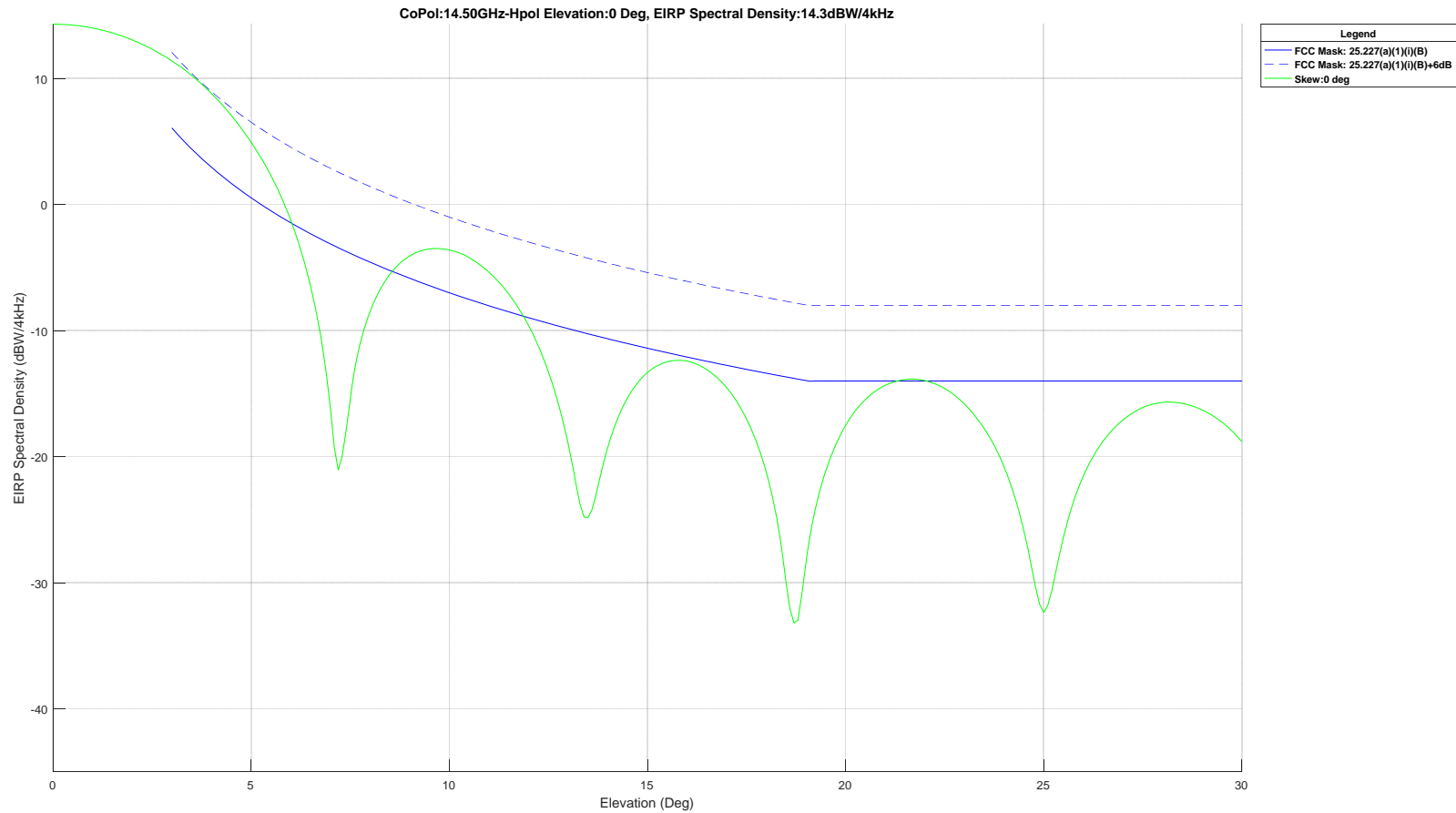
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:14DBW/4KHZ



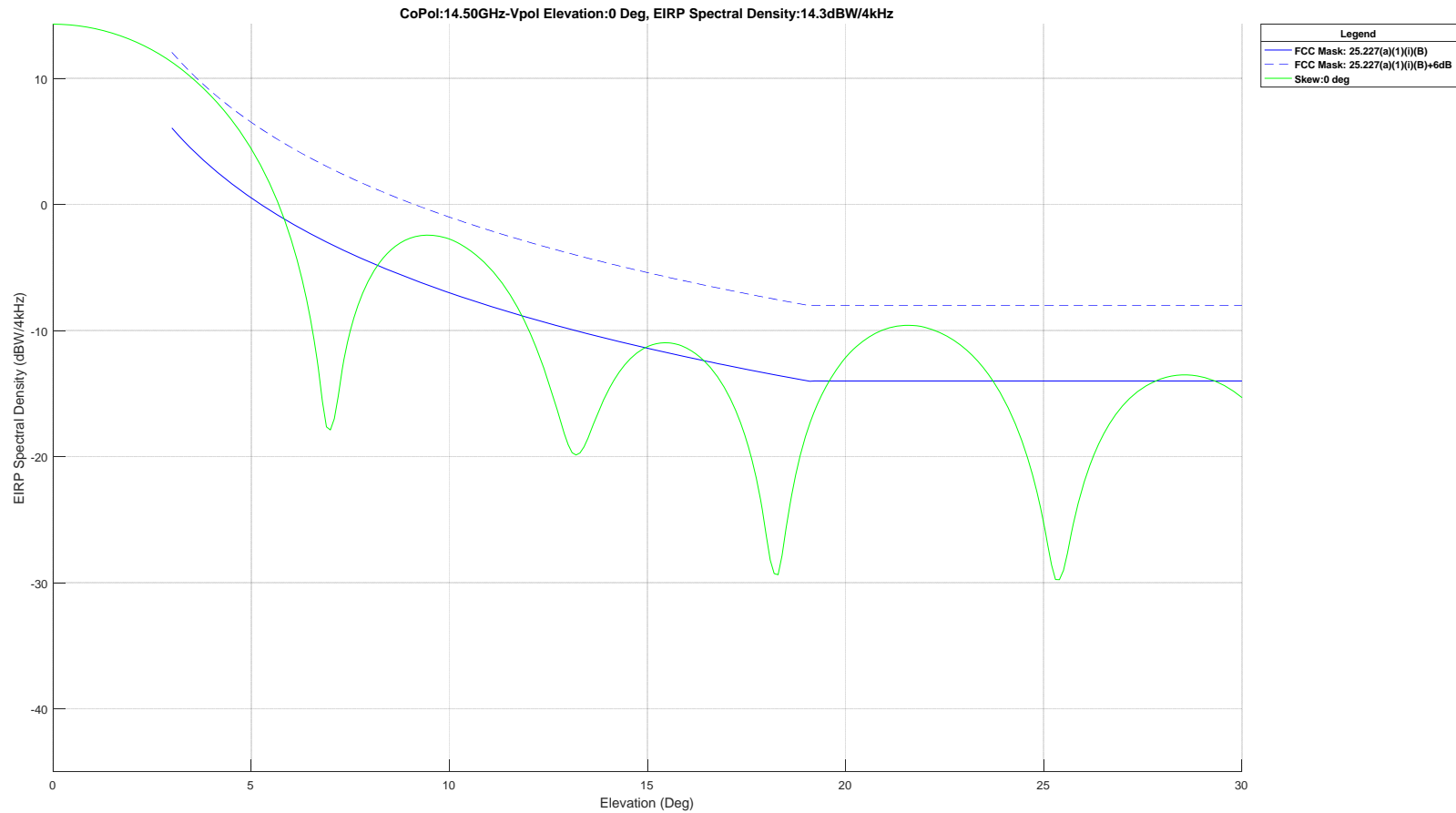
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:14DBW/4KHZ



# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:14.3DBW/4KHZ

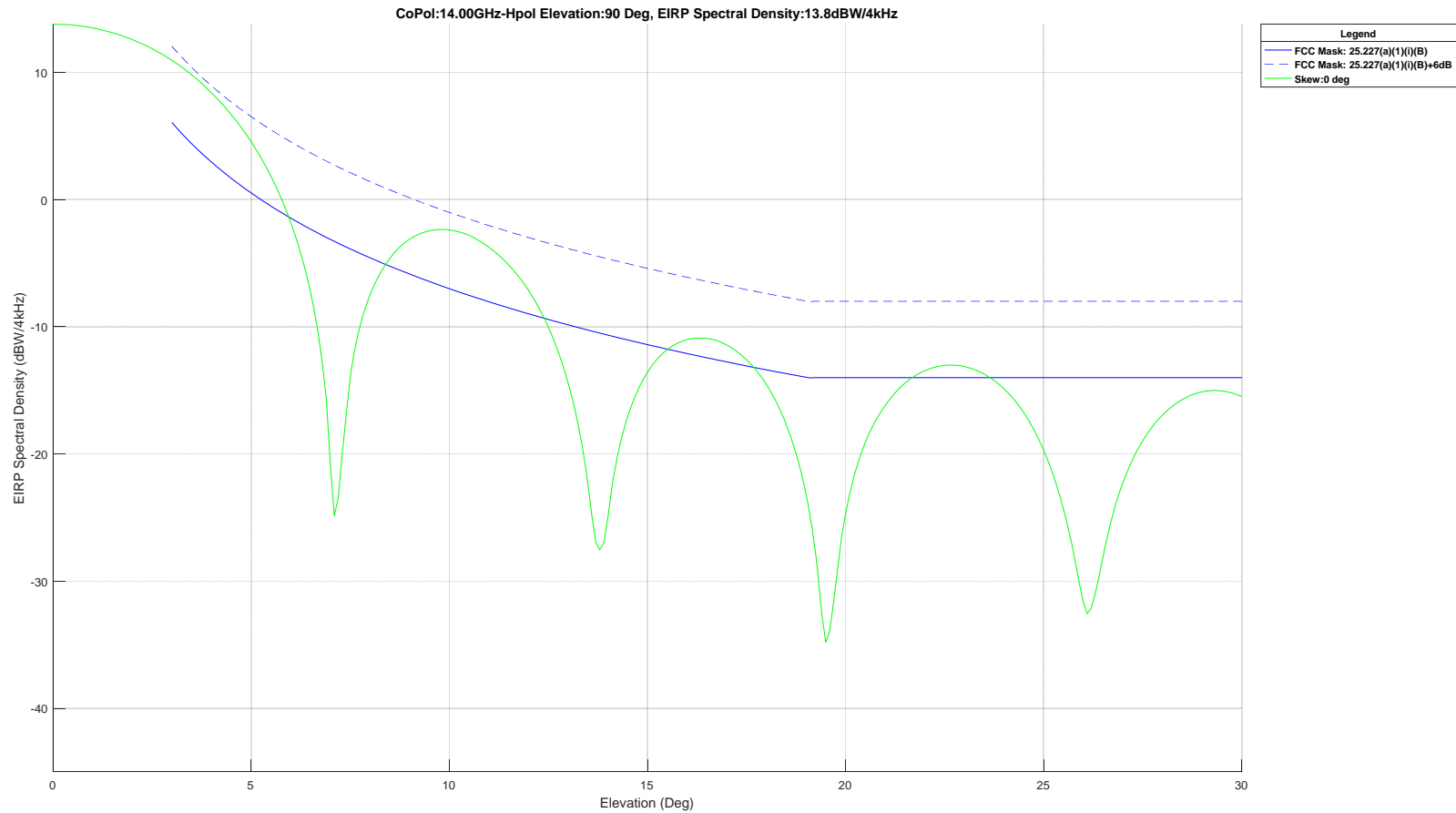


# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:14.3DBW/4KHZ

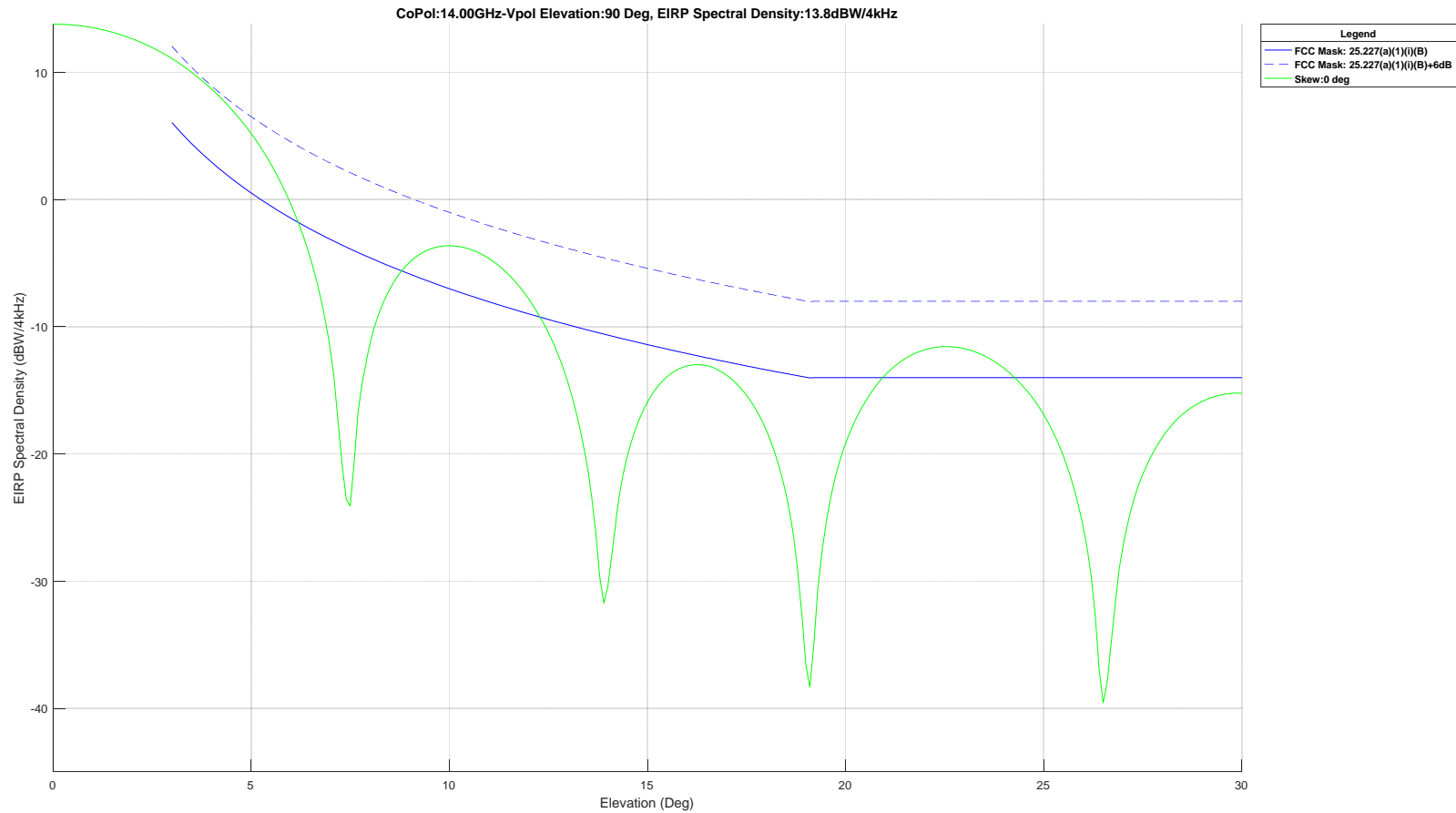




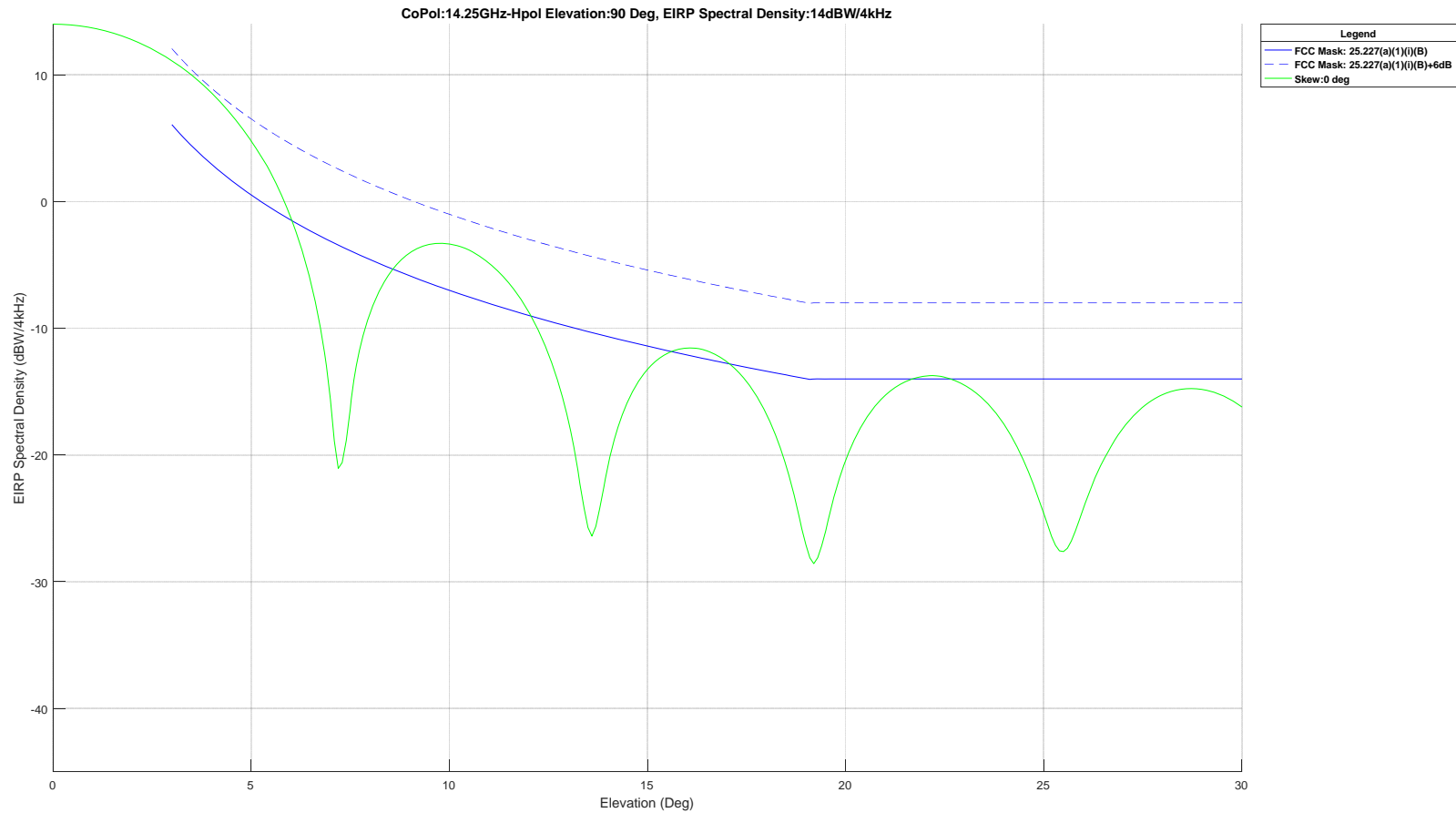
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:13.8DBW/4KHZ



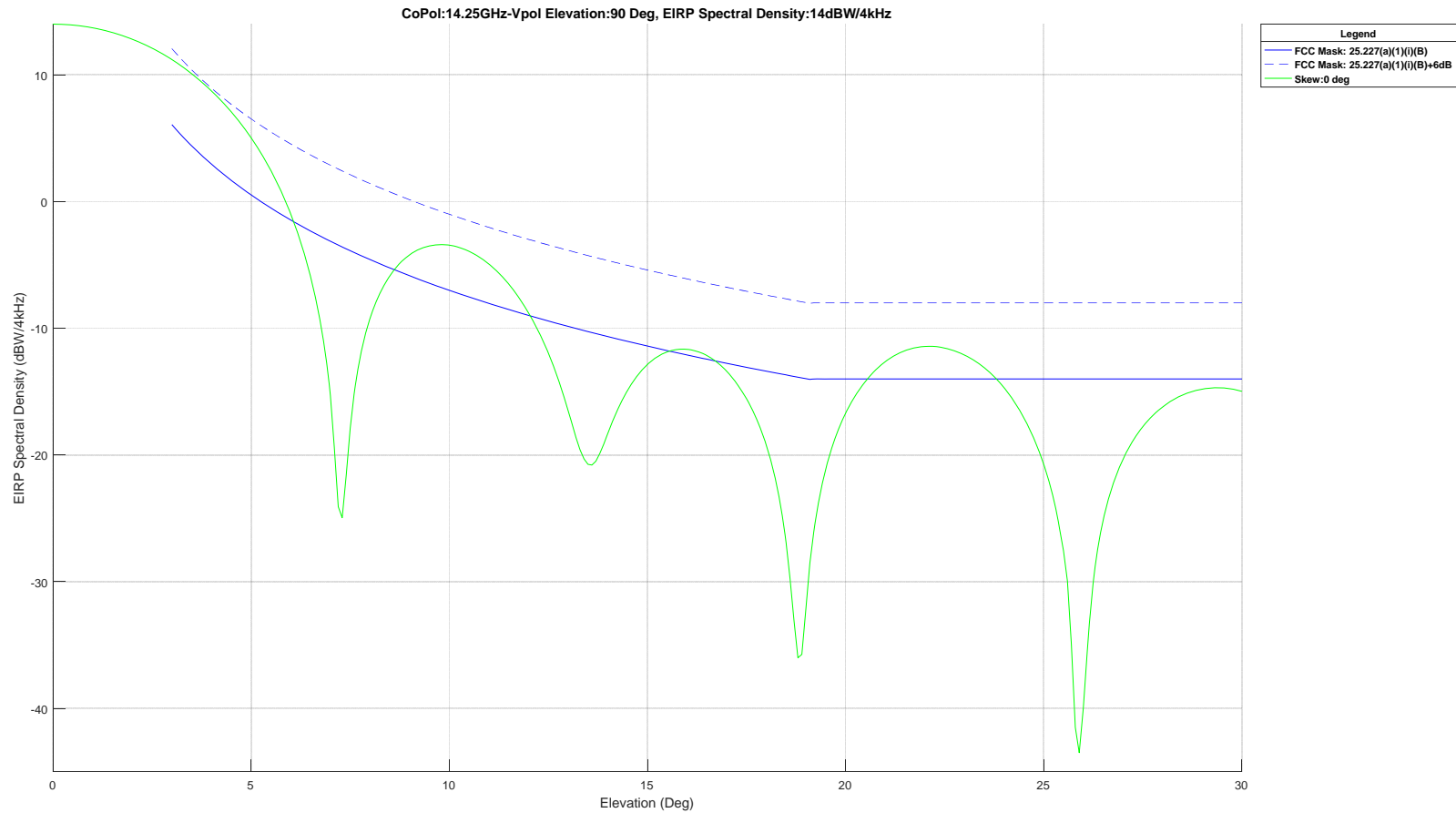
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:13.8DBW/4KHZ



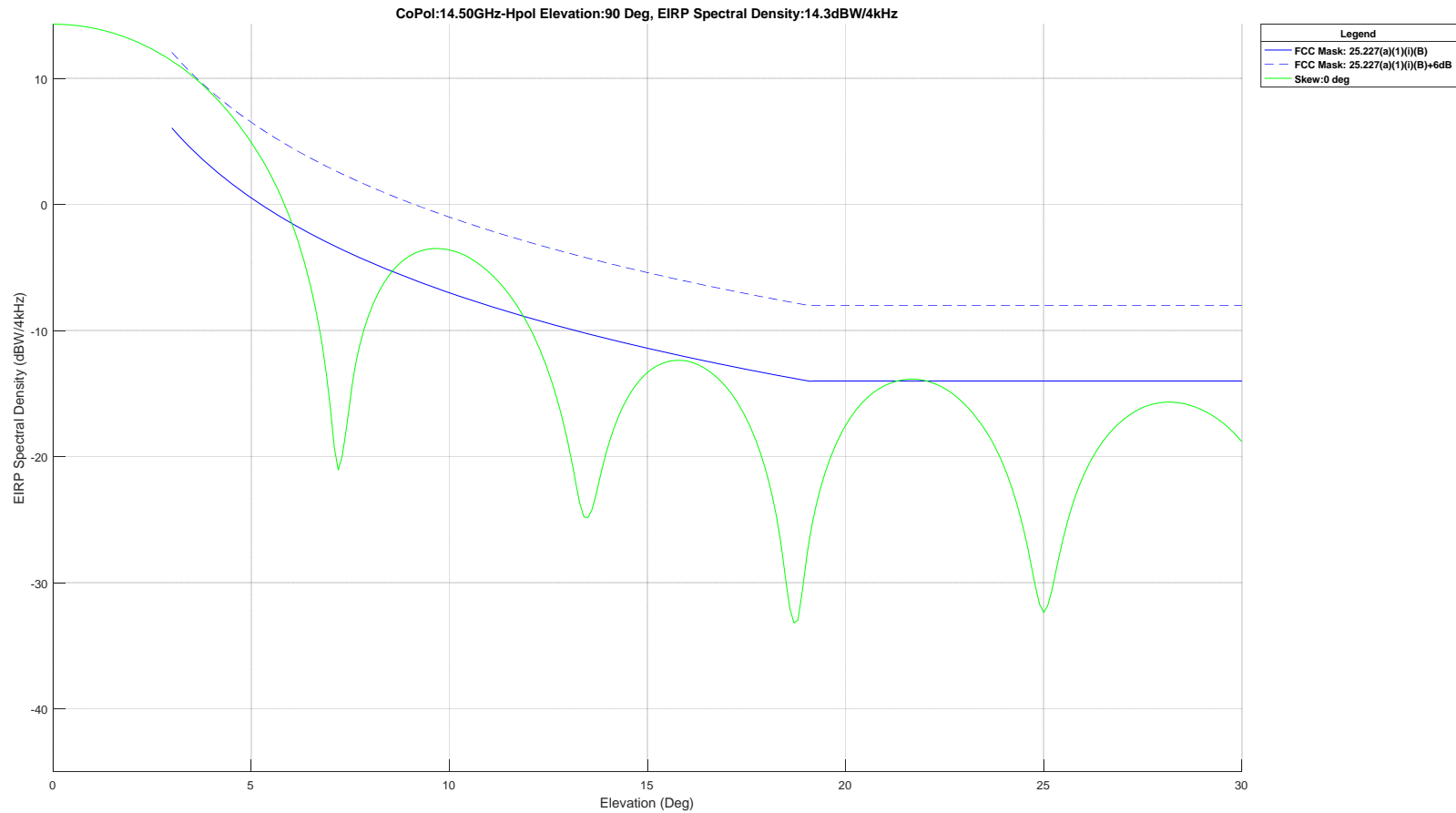
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14DBW/4KHZ



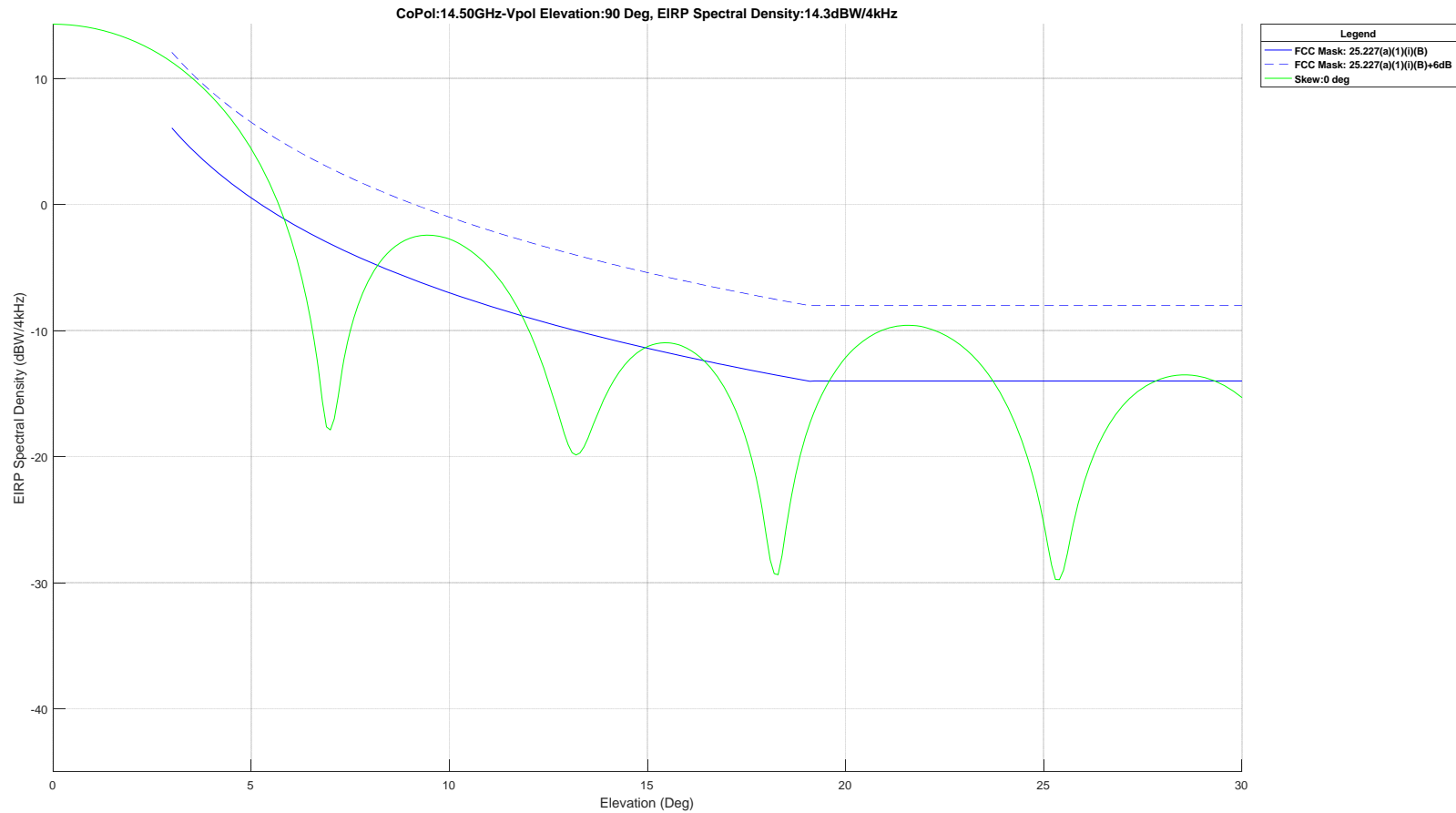
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14DBW/4KHZ



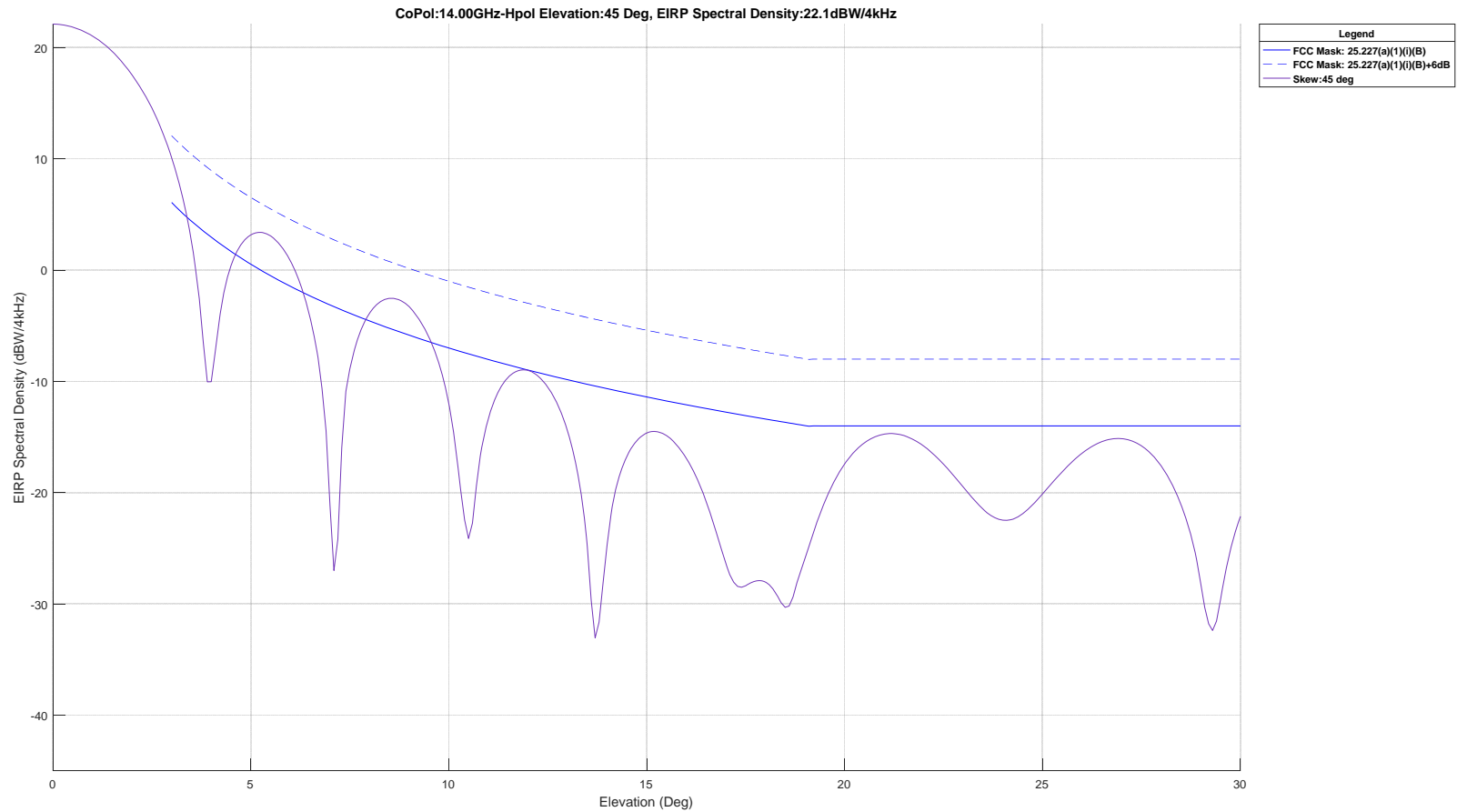
# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14.3DBW/4KHZ



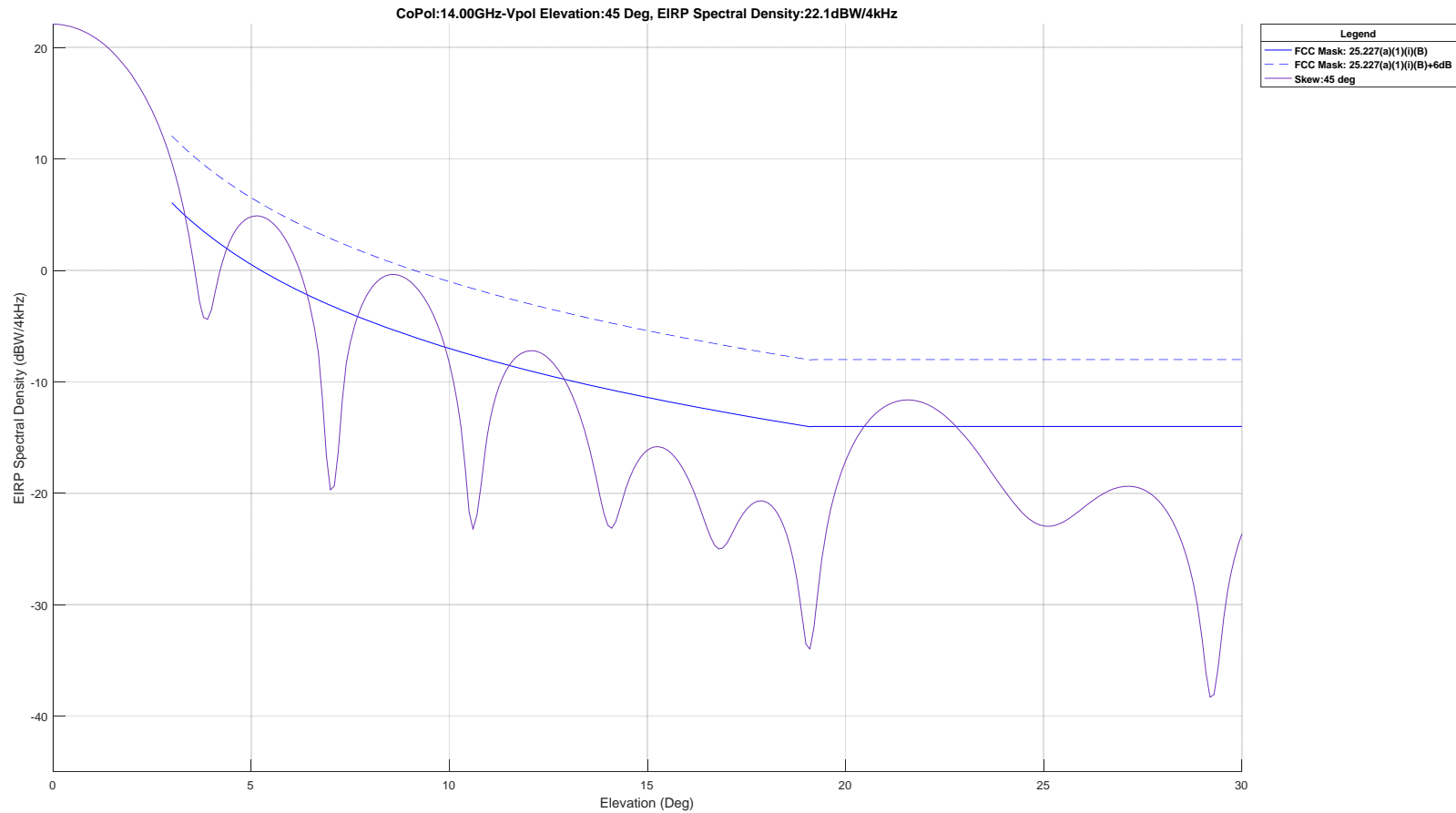
# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14.3DBW/4KHZ



# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:22.1DBW/4KHZ

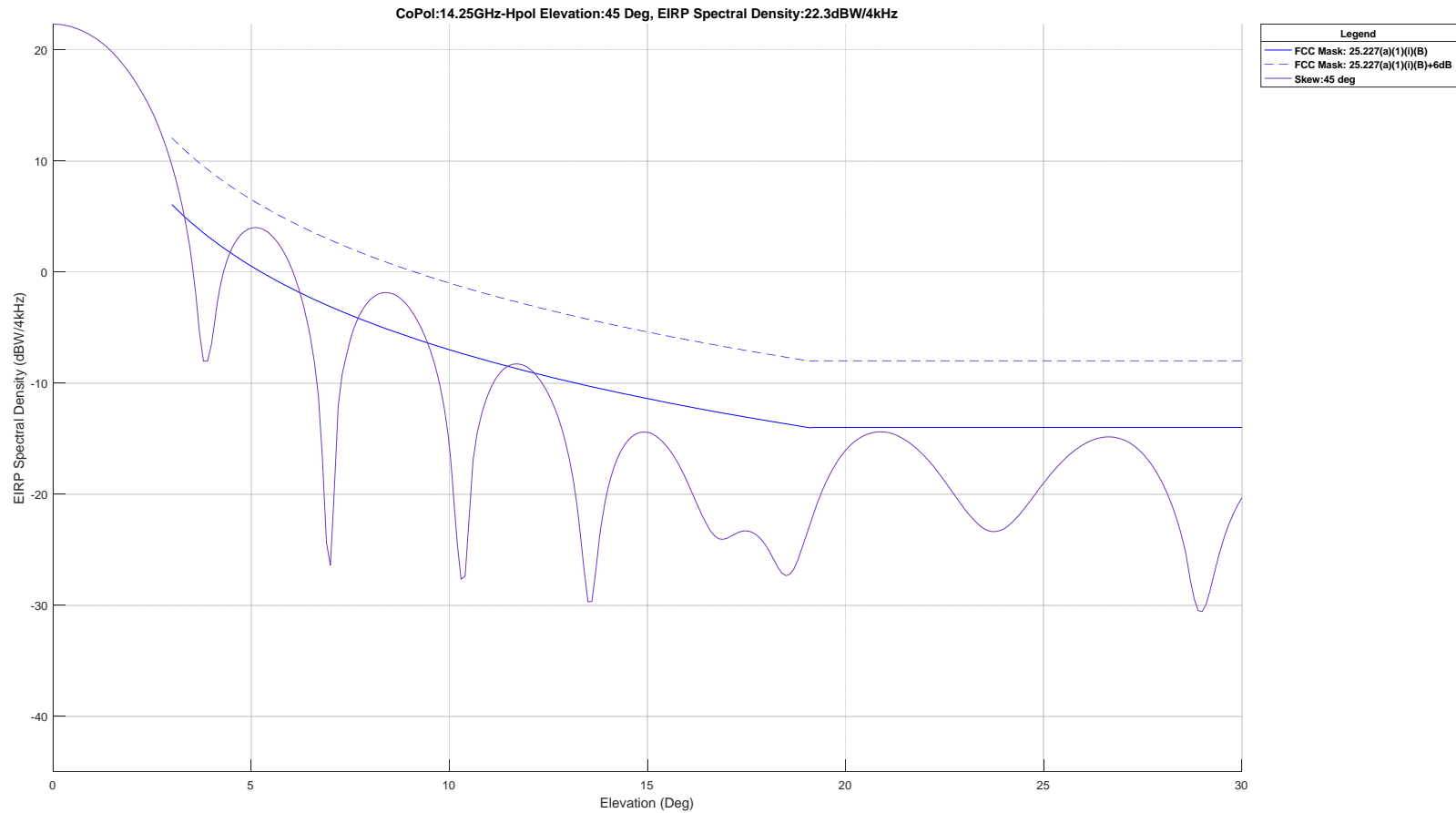


# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:22.1DBW/4KHZ

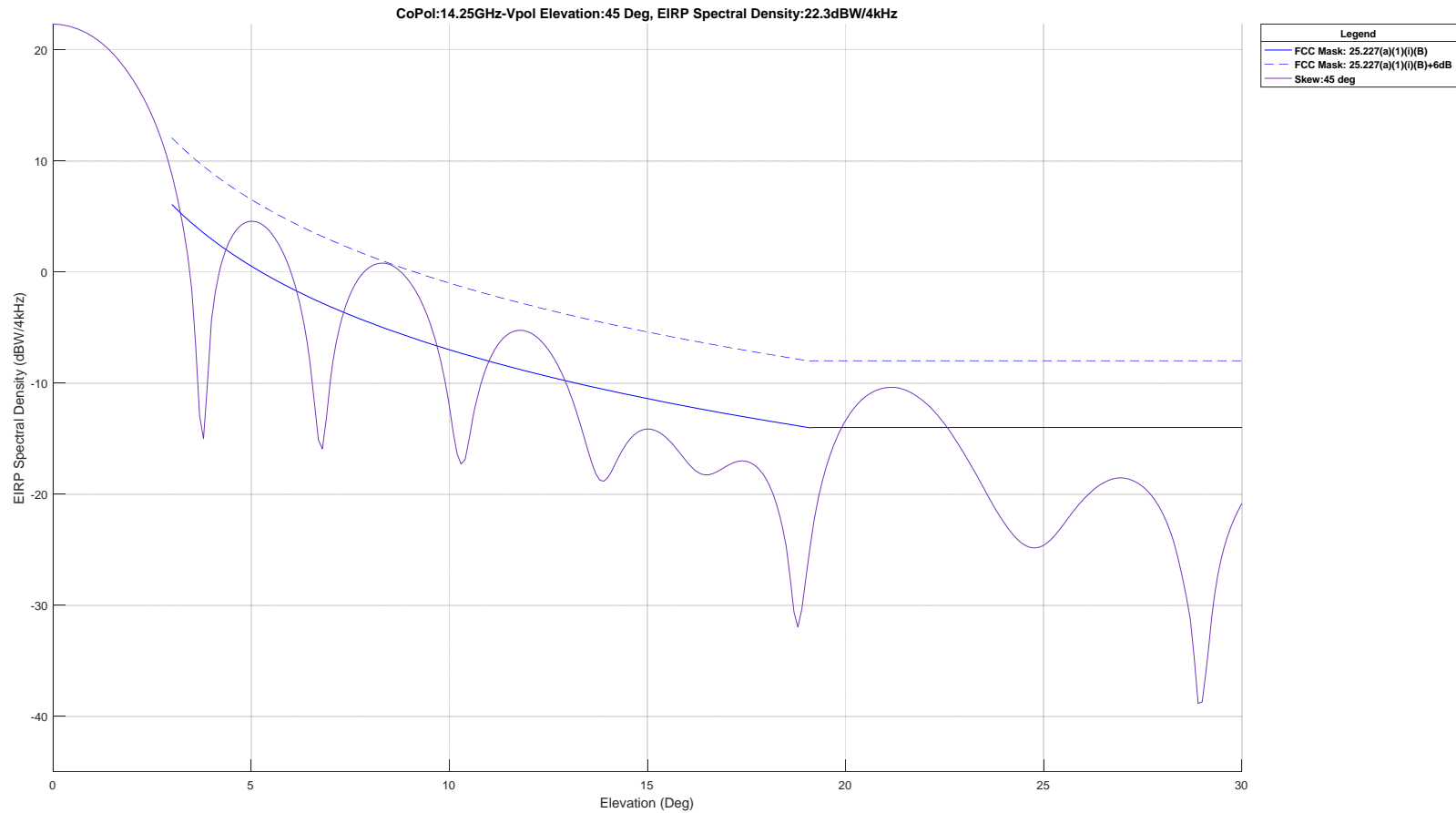




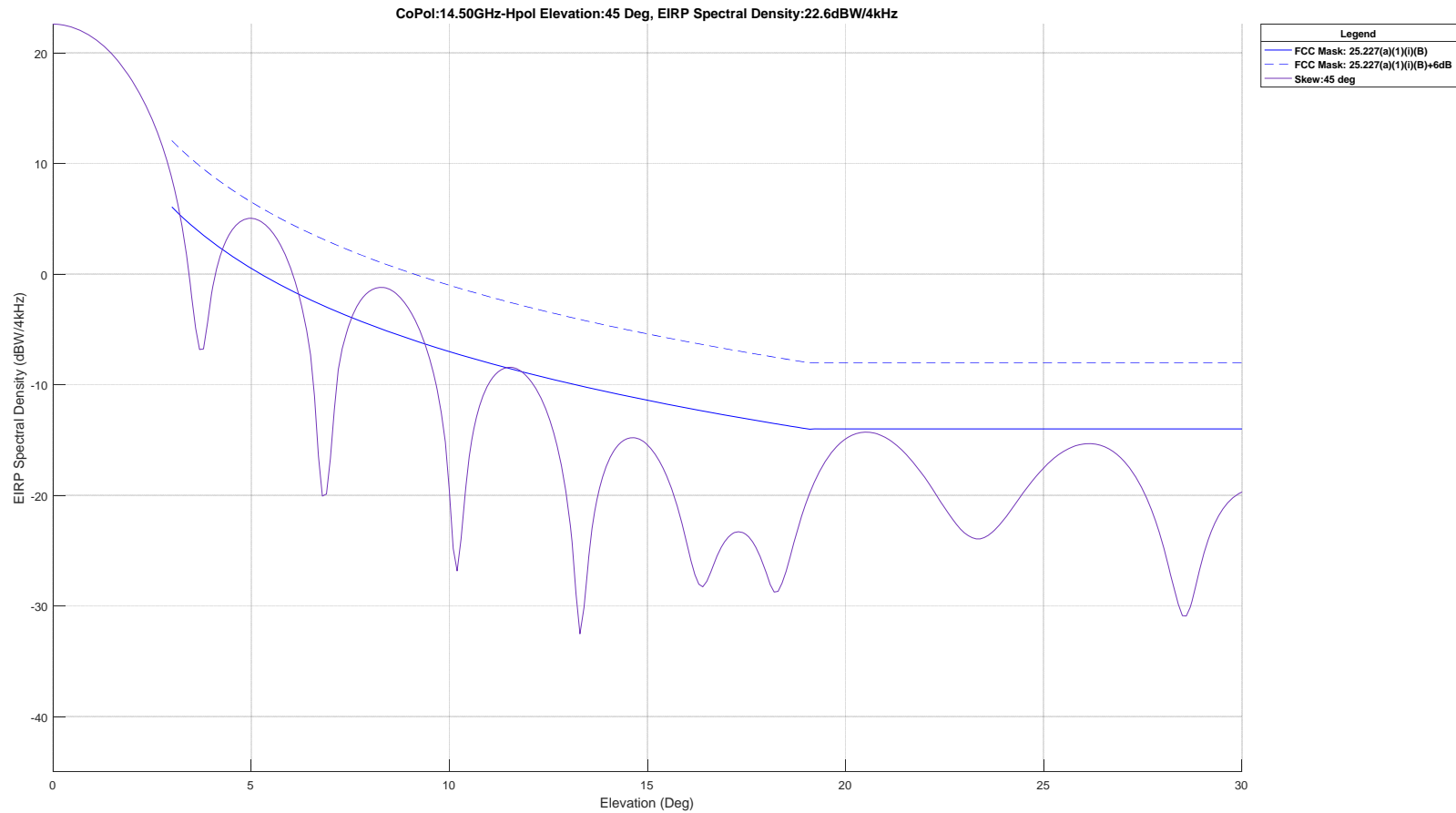
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:22.3DBW/4KHZ



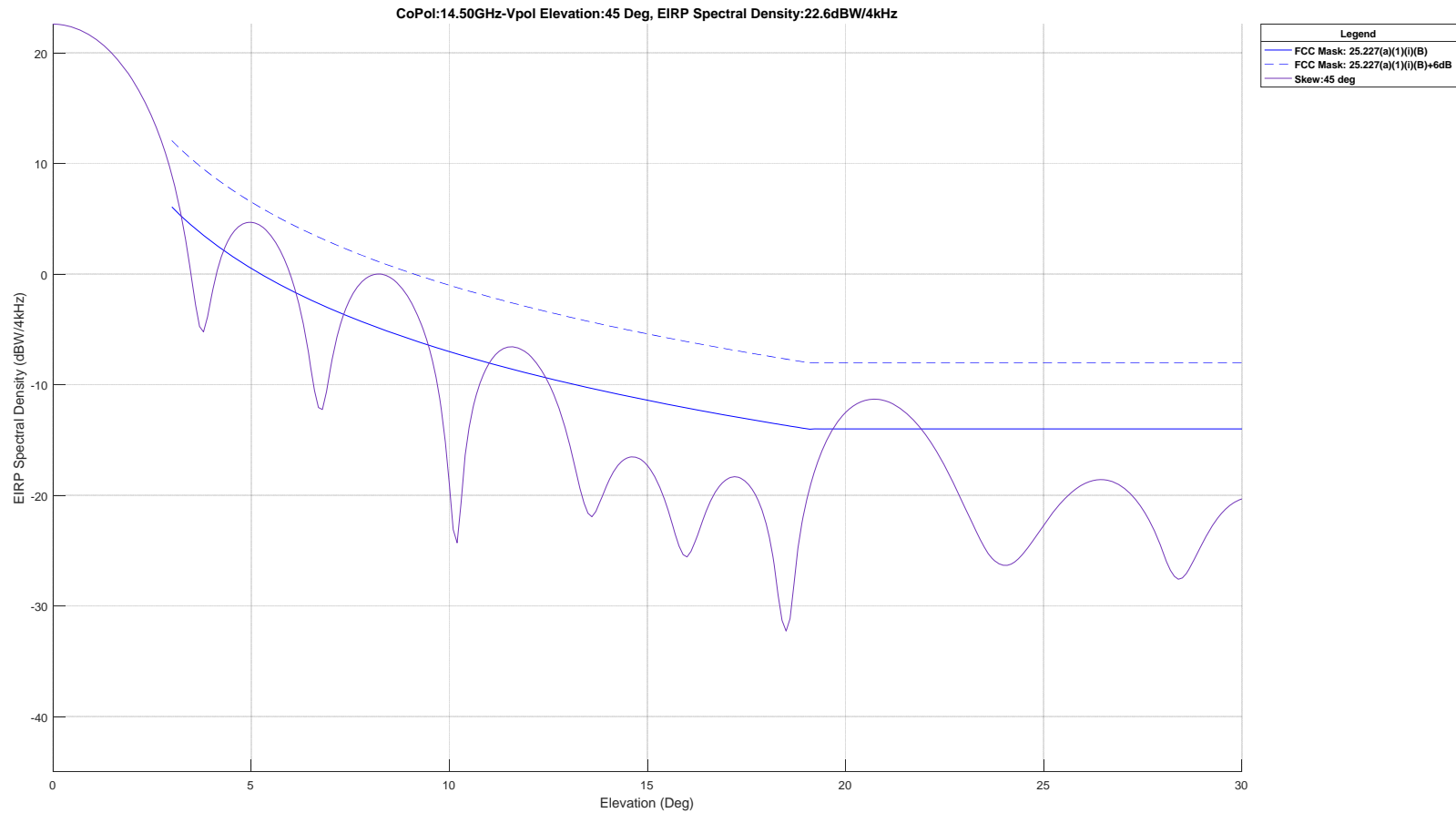
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:22.3DBW/4KHZ



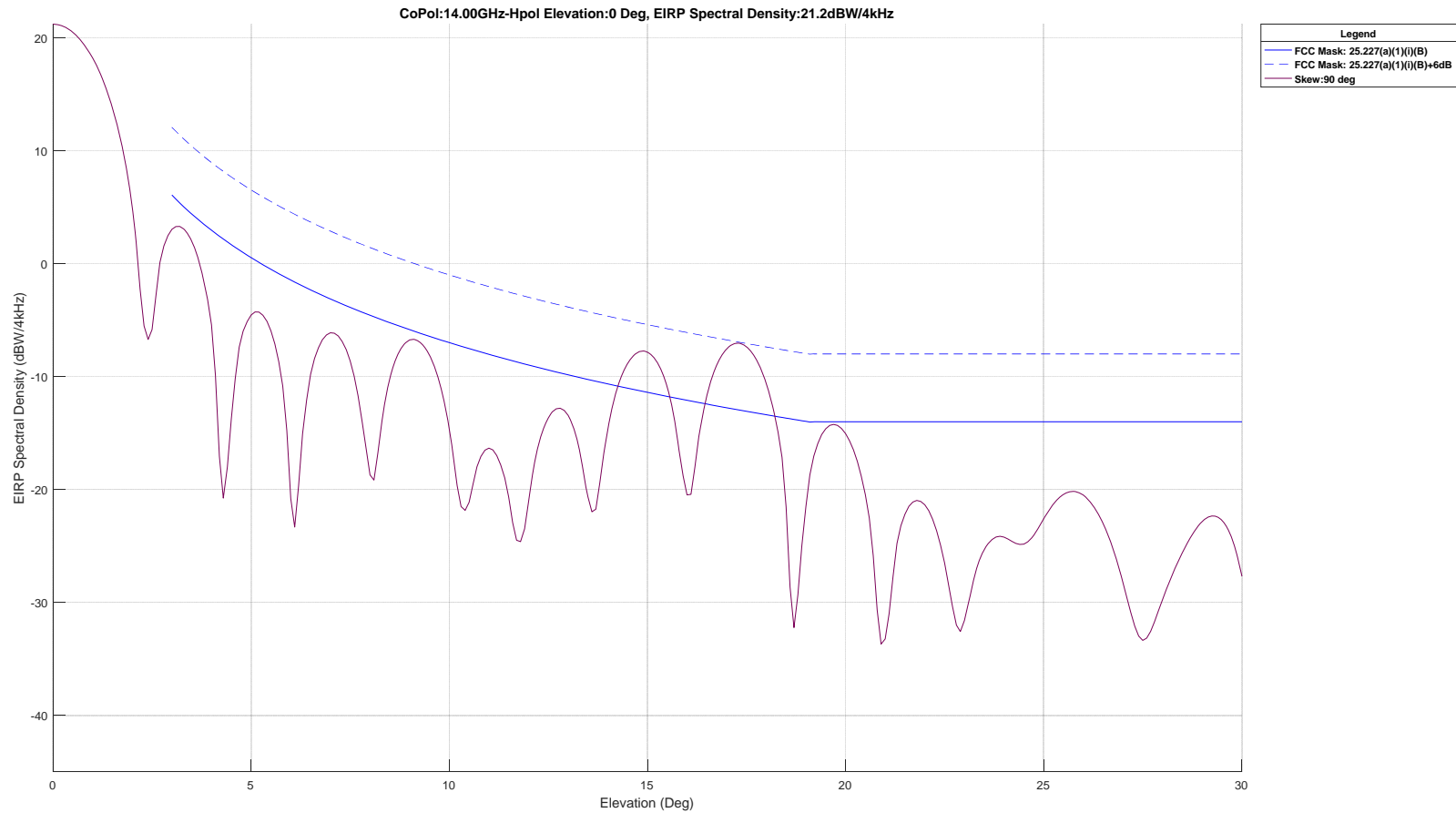
# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:22.6DBW/4KHZ



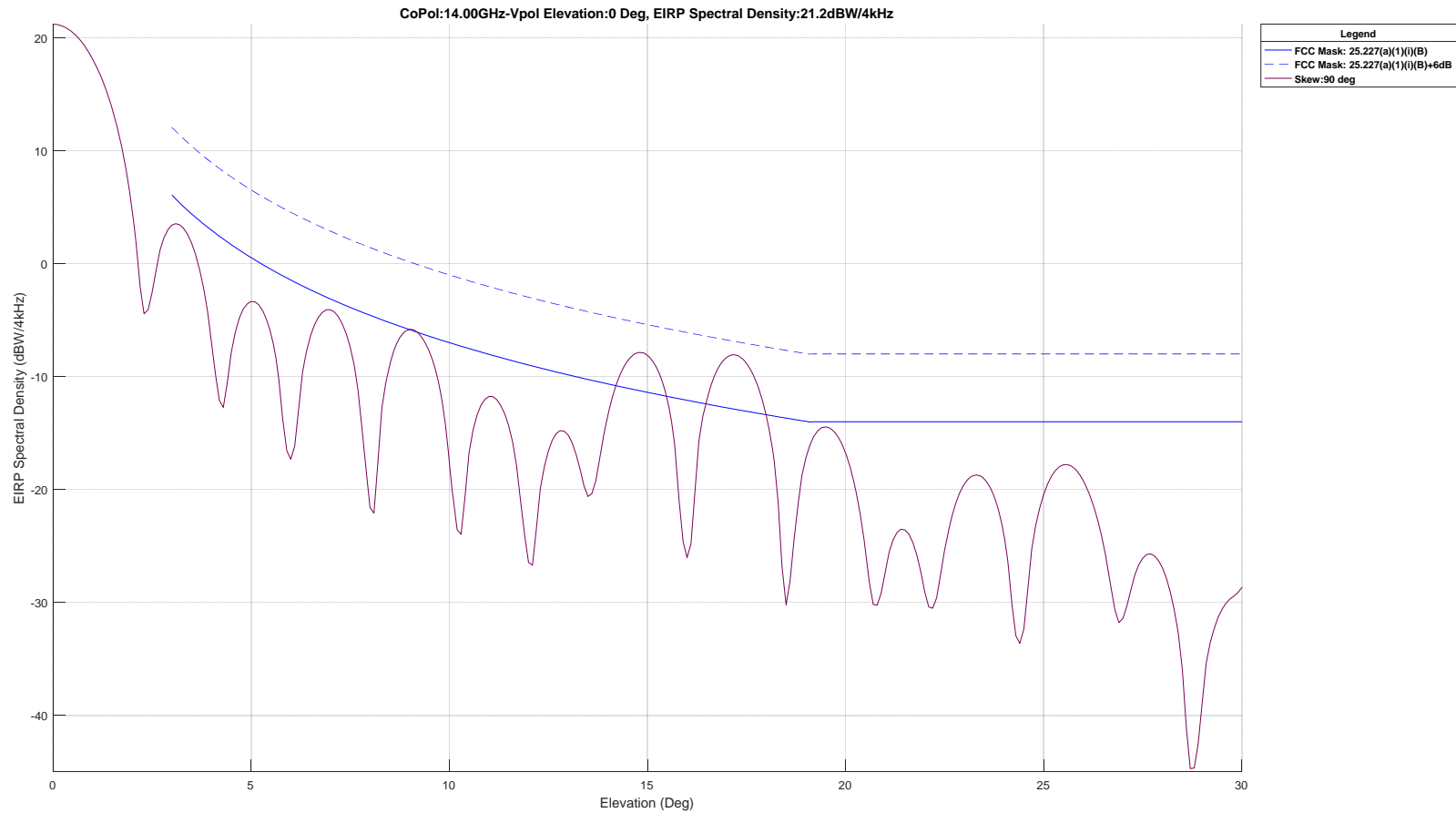
# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:22.6DBW/4KHZ



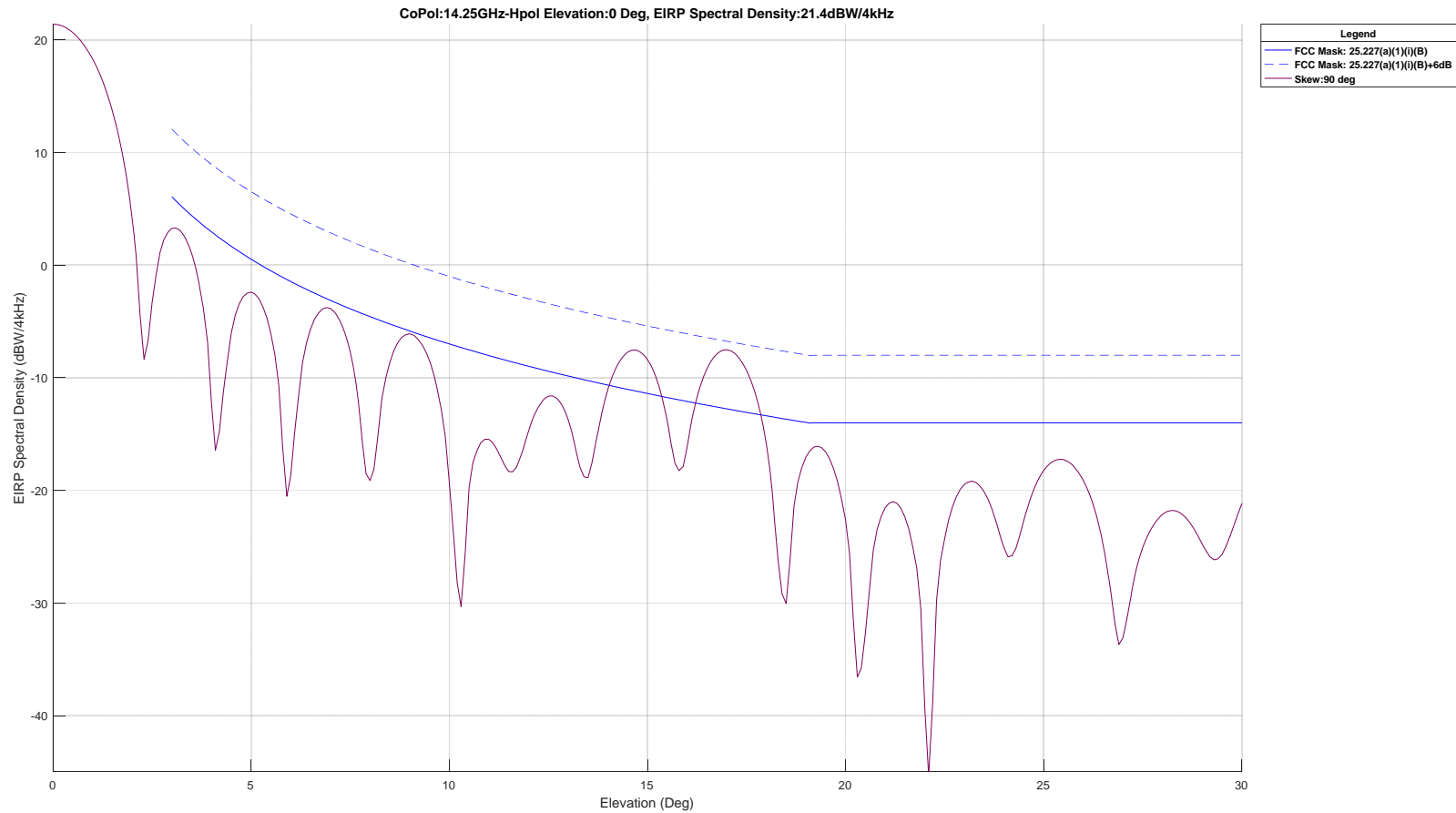
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:21.2DBW/4KHZ



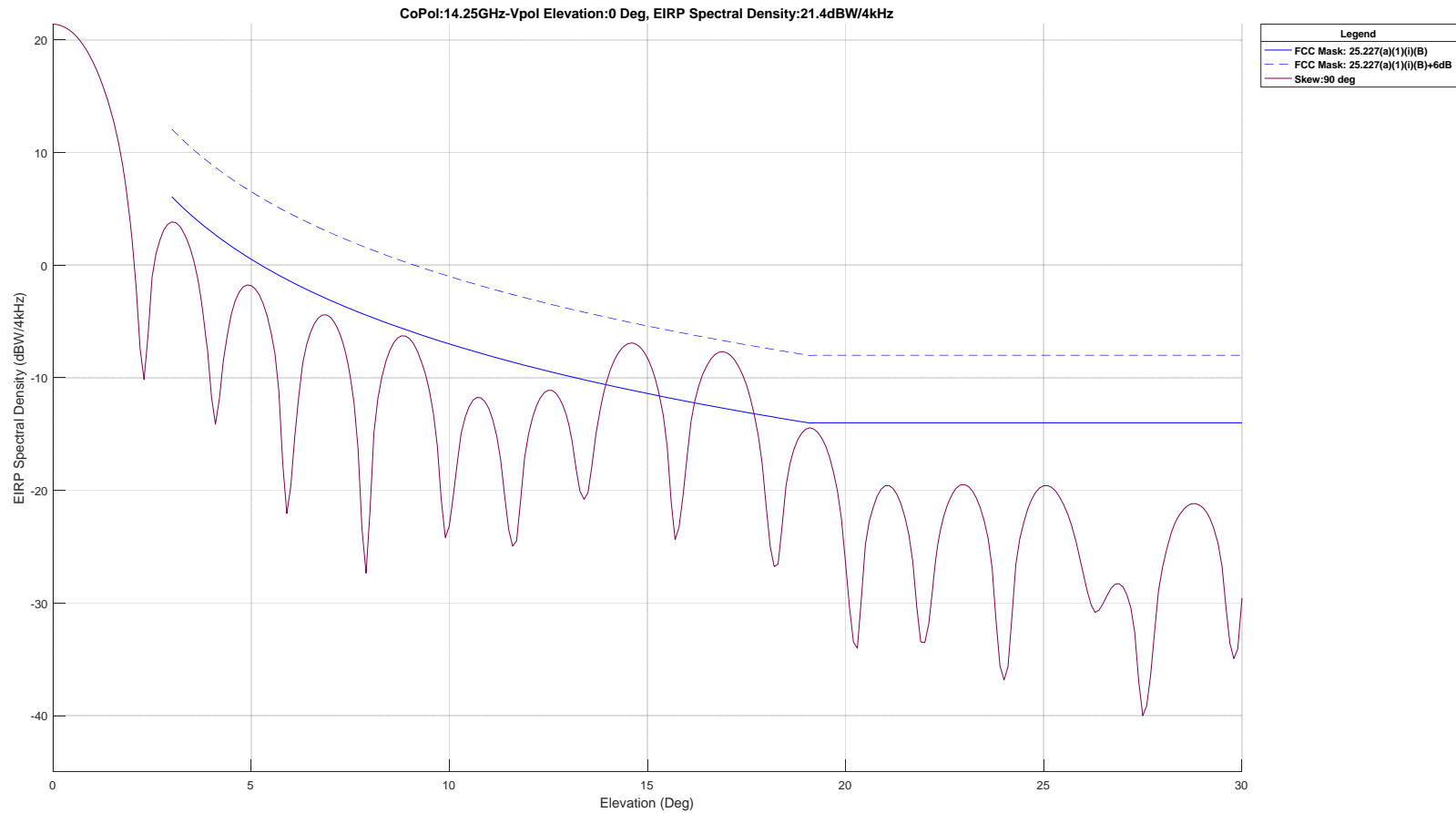
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:21.2DBW/4KHZ



# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:21.4DBW/4KHZ

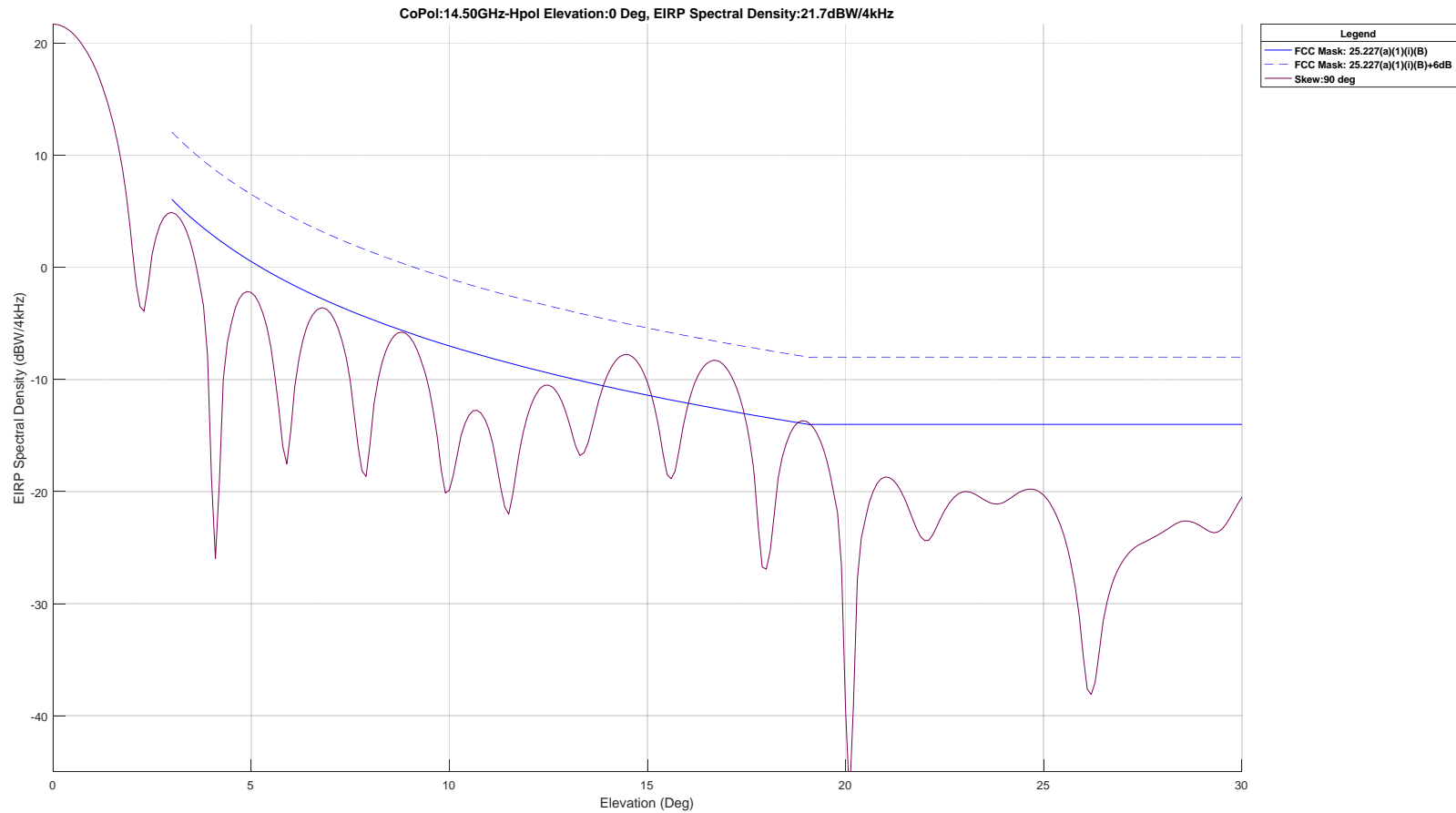


# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:21.4DBW/4KHZ

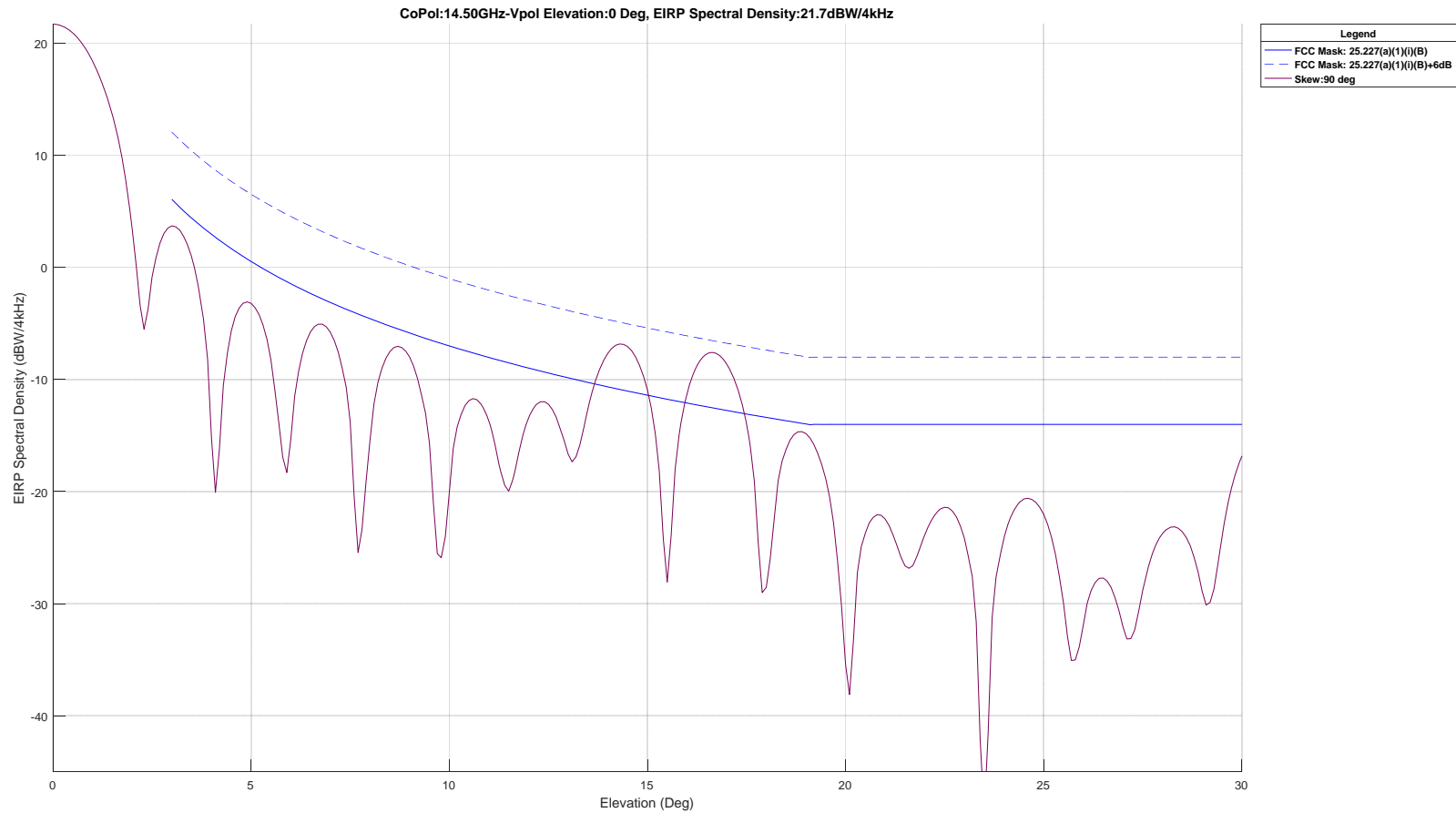




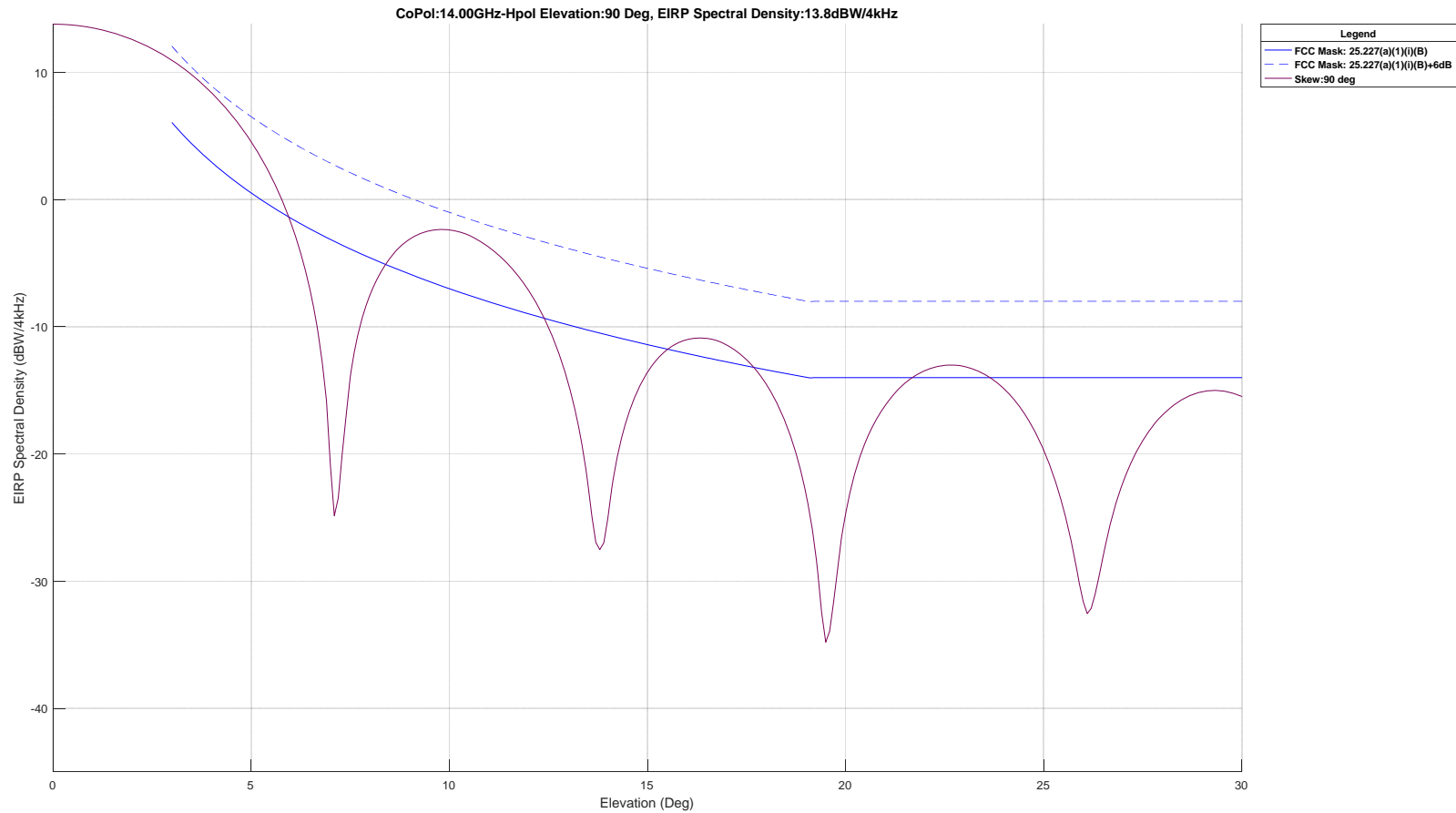
# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:21.7DBW/4KHZ



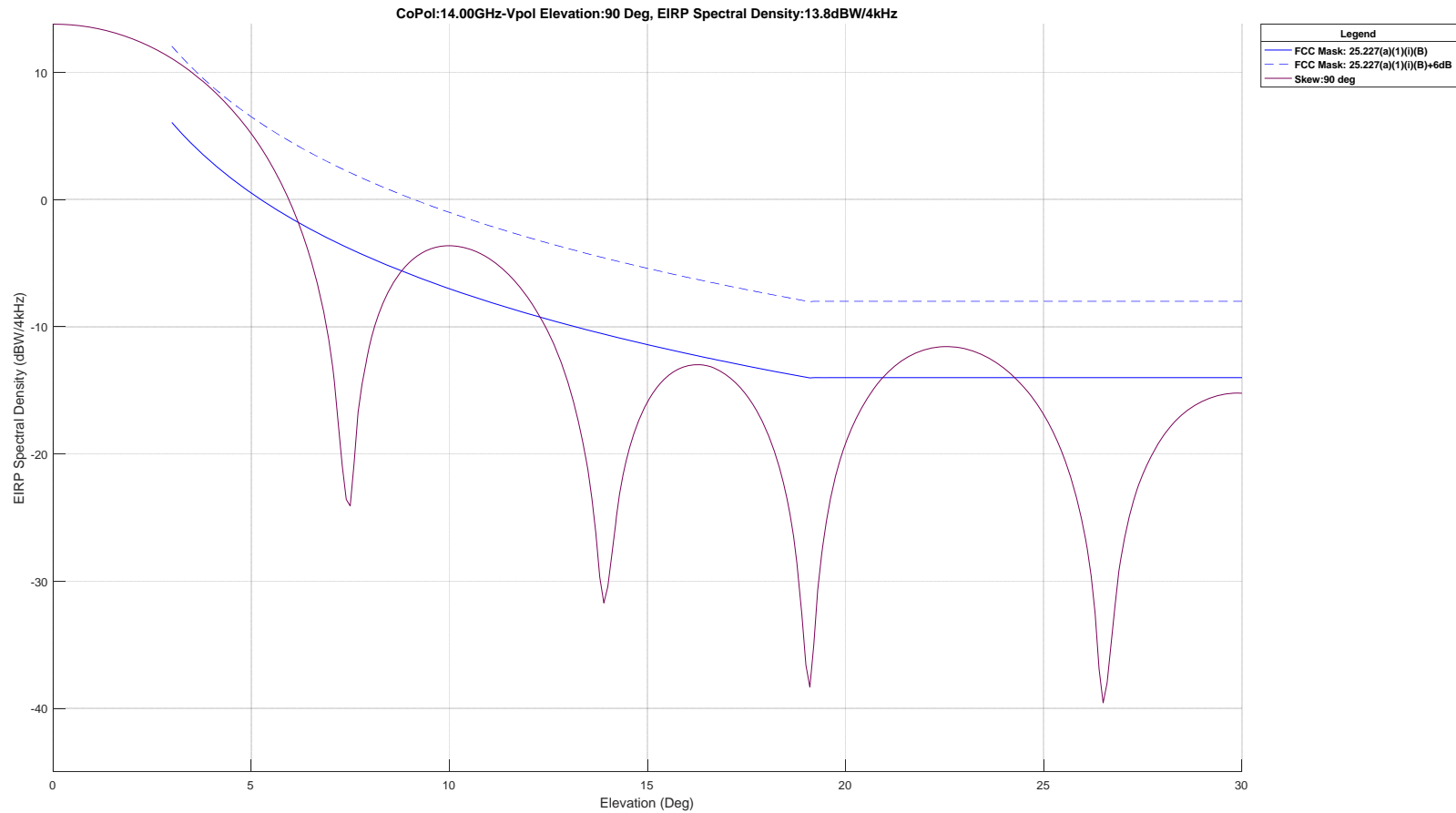
# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:21.7DBW/4KHZ



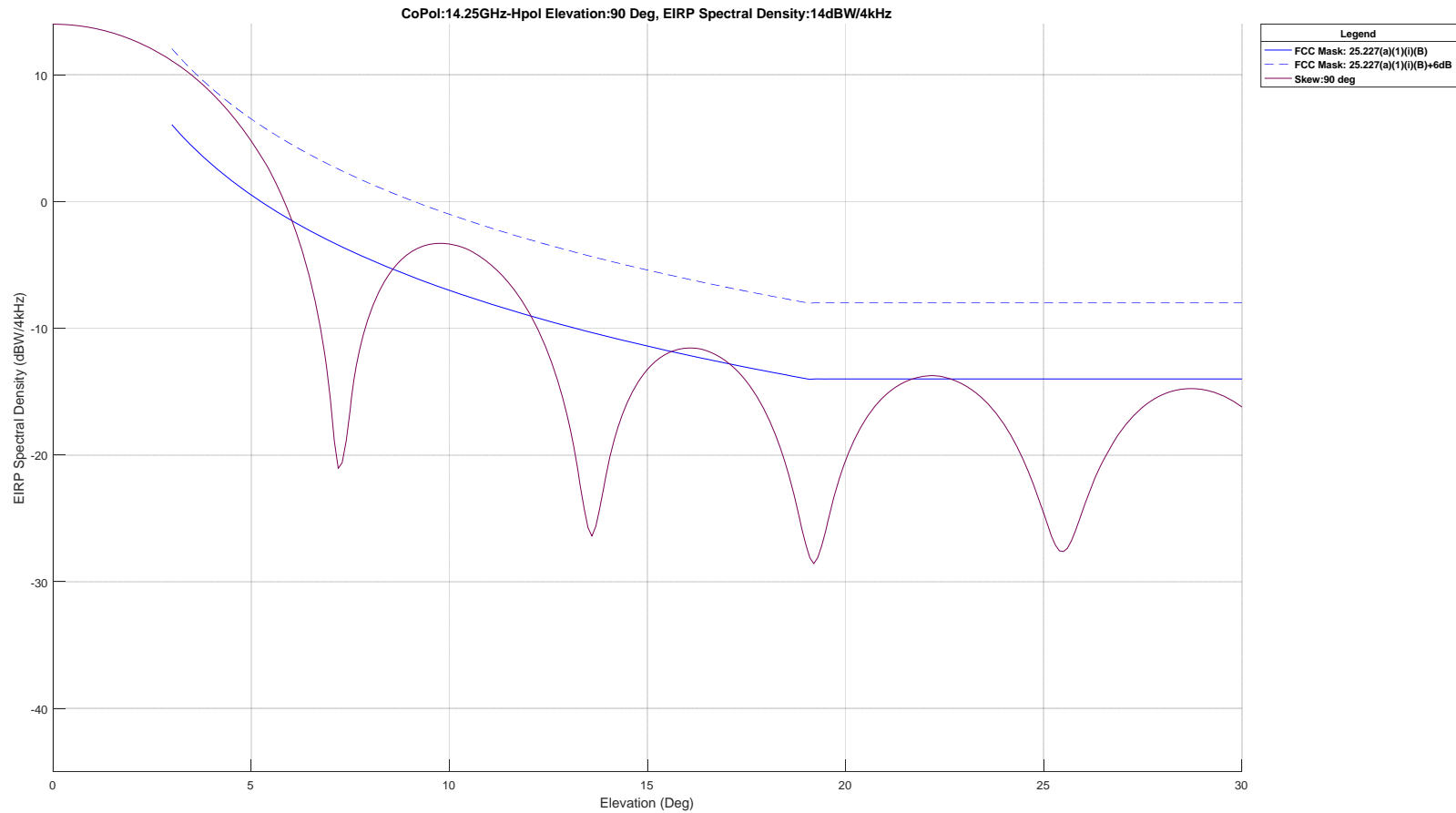
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:13.8DBW/4KHZ



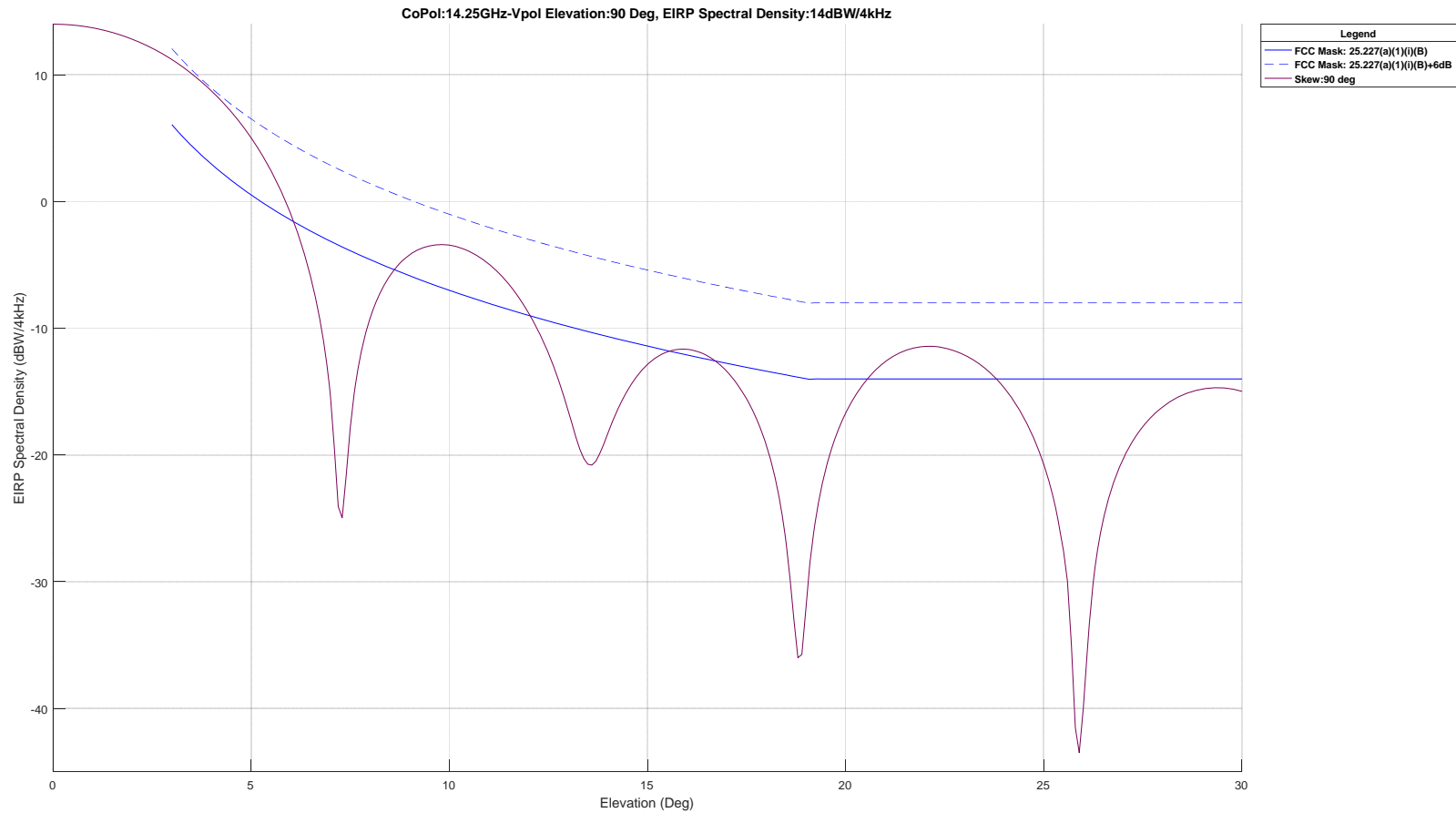
# COPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:13.8DBW/4KHZ



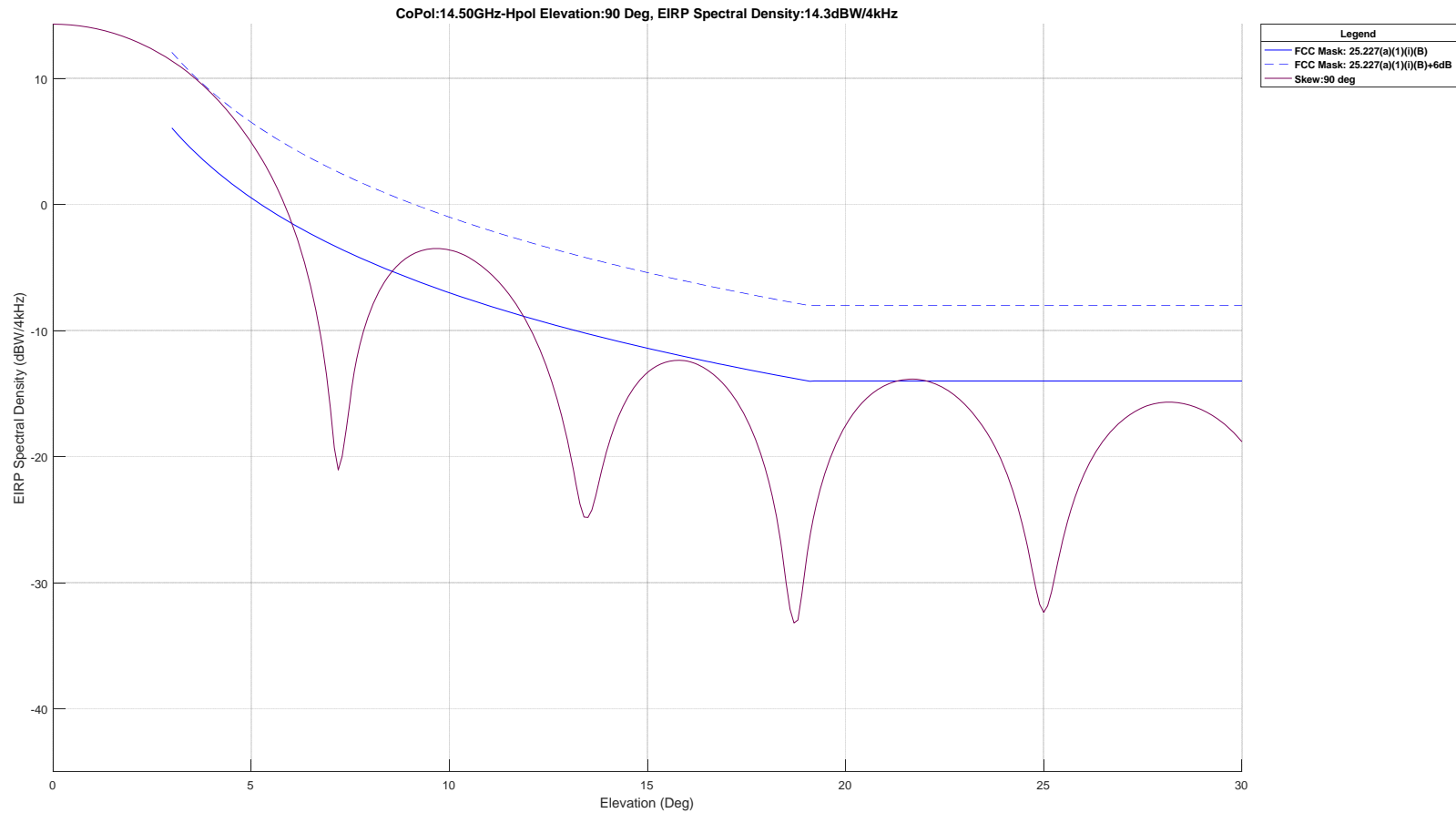
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14DBW/4KHZ



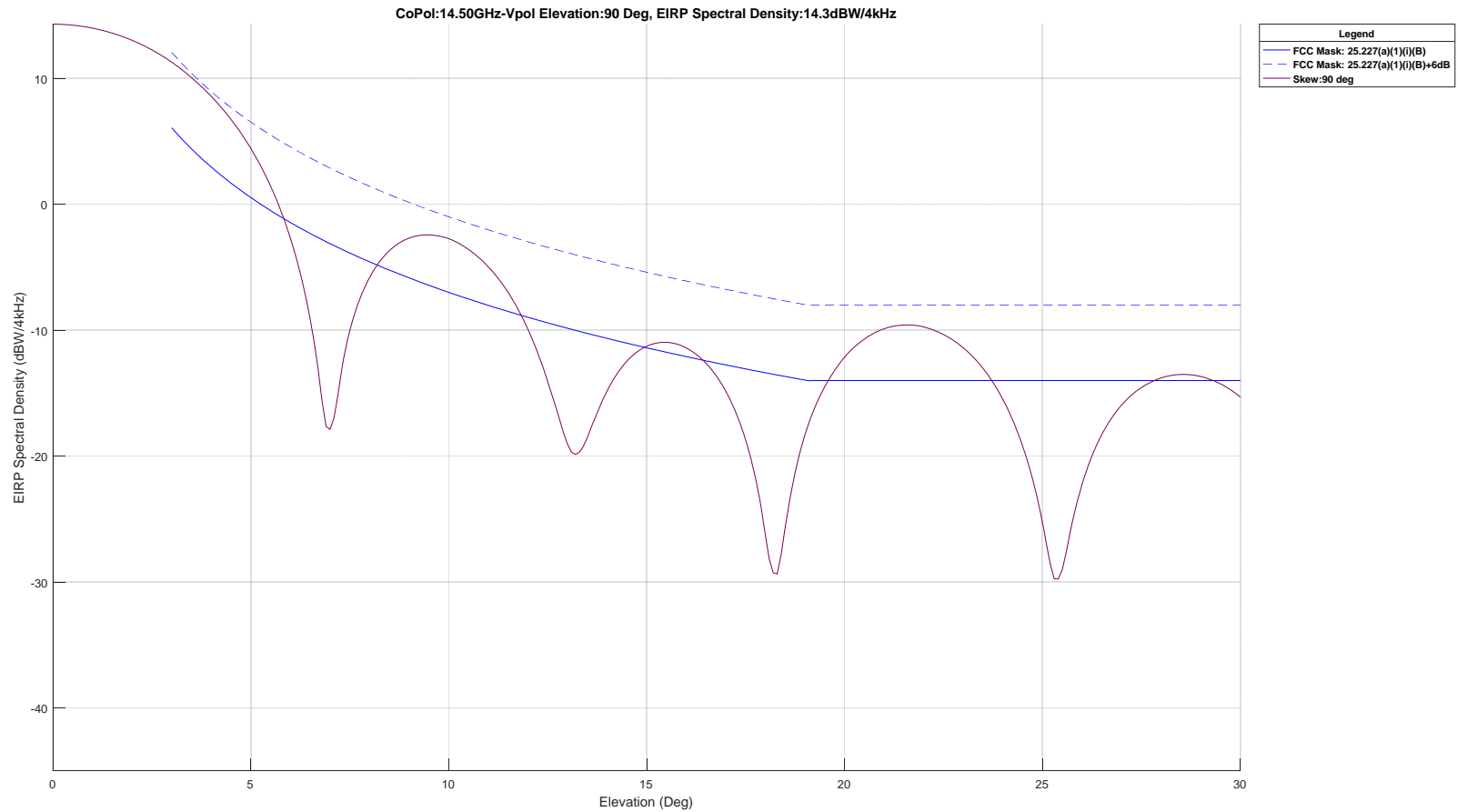
# COPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14DBW/4KHZ



# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14.3DBW/4KHZ



# COPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:14.3DBW/4KHZ





GSAA EIRP SPECTRAL DENSITY  
PLOTS – TANGENT PLANE TO  
GSO CROSS POL WITH  
25.227(A)(1)(I)(C) MASK



# DESCRIPTION

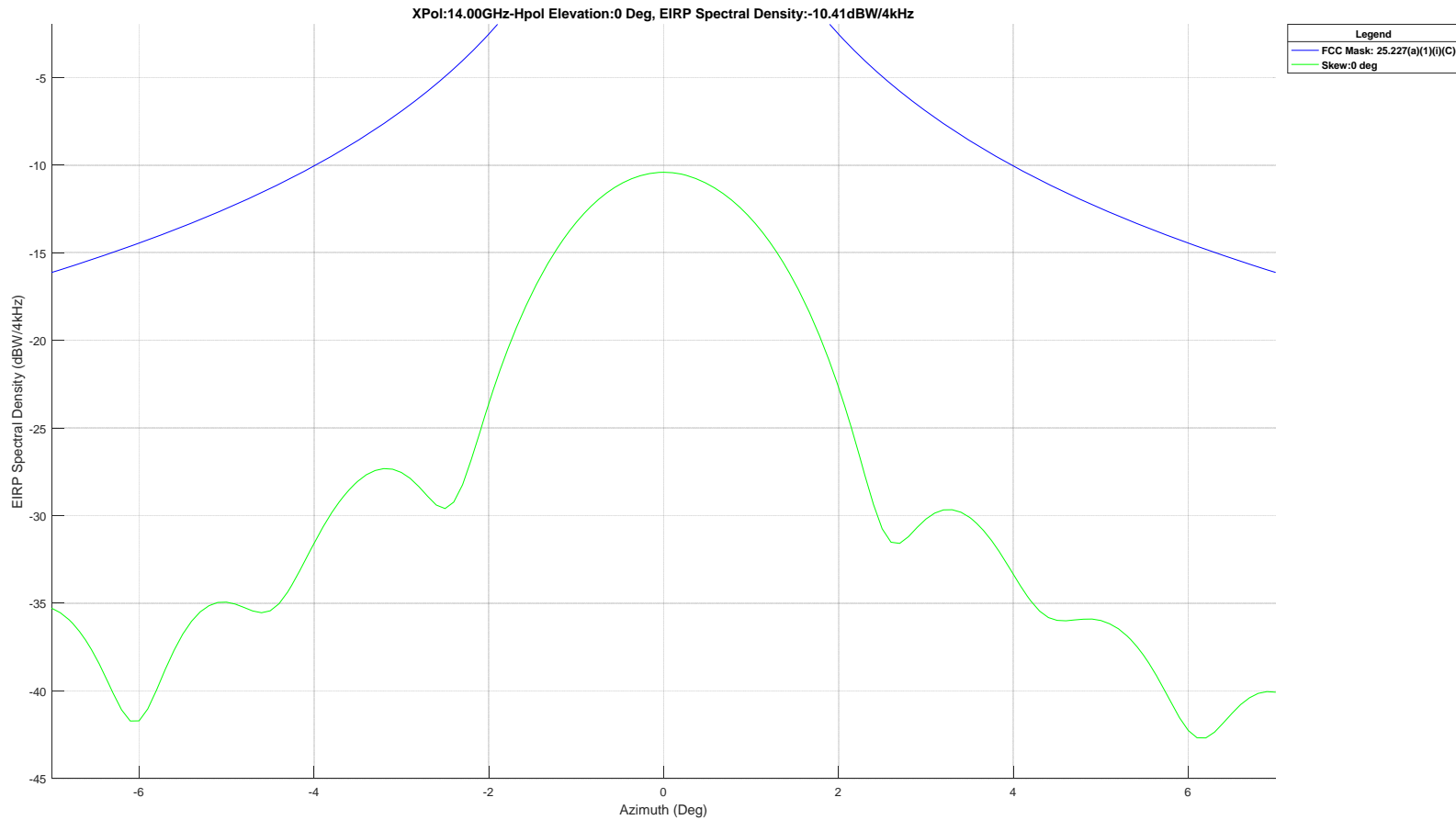
- EIRP Spectral Density plots are at 14.00 GHz, 14.25 GHz and 14.50 GHz for both vertical and horizontal polarization for the following Skew and Elevation Angles (in **BOLD**) as it is mapped to the maximum EIRP Spectral Density in dBW/4kHz in the table on the next page:

# DESCRIPTION

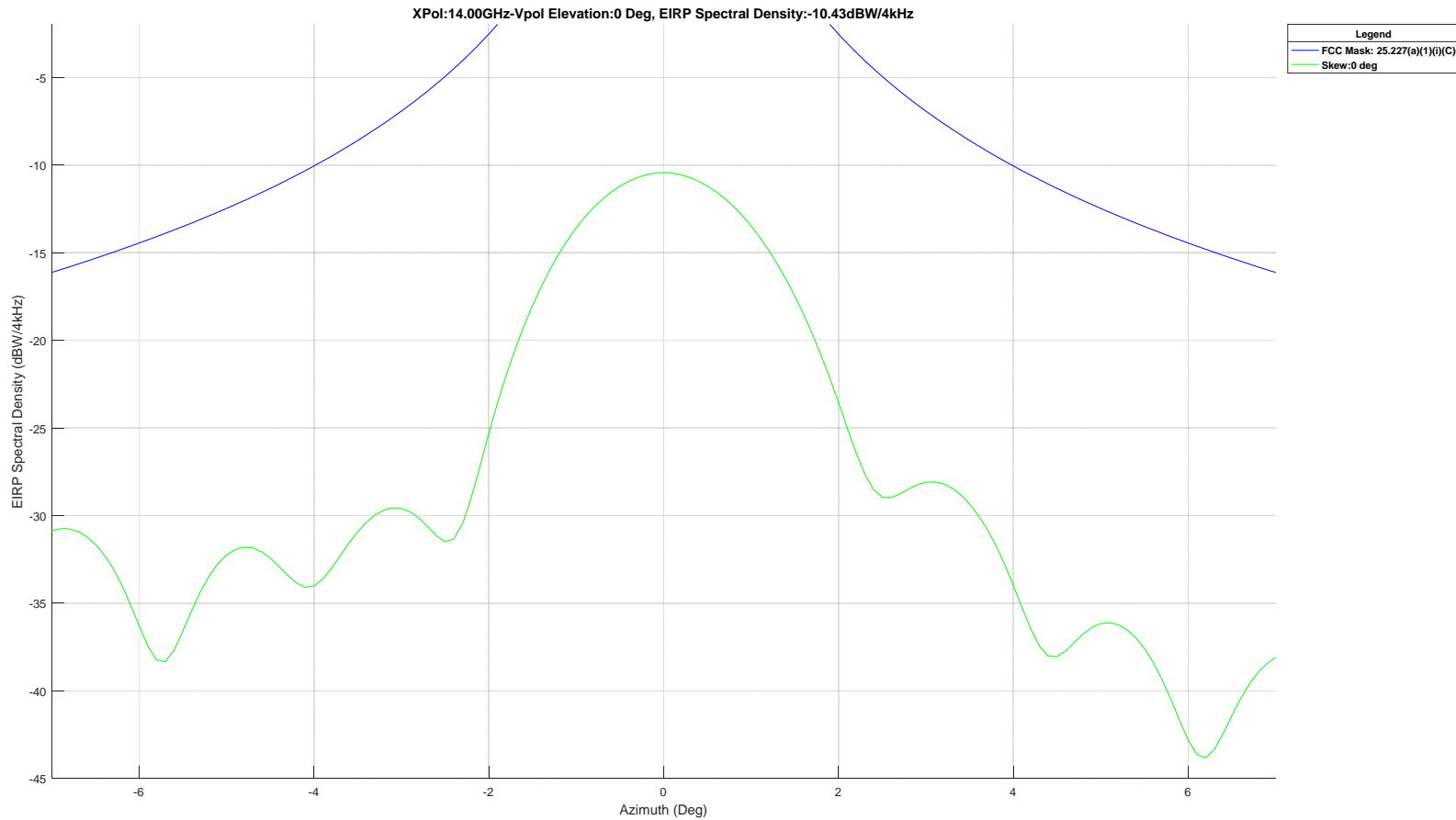
Tangent Plane to GSO Cross Pol ESD Plots as they comply to FCC mask 25.227(a)(1)(i)(C)

GSAA MAXIMUM EIRP SPECTRAL DENSITY (dBW/4kHz)																			
Elevation(deg)\Skew(deg)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18	-20.48	-21.57	-22.47
5	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18	-20.48	-21.57	-22.47
10	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18	-20.48	-21.57	-22.47
15	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-11.22	-11.67	-11.67	-11.93	-12.60	-13.77	-14.32	-16.01	-16.68	-18.14	-19.86	-21.25	-22.14
20	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-11.22	-11.67	-11.67	-11.93	-12.60	-13.77	-14.32	-16.01	-16.68	-18.14	-19.86	-21.25	-22.14
25	-9.92	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18	-20.48	-21.57
30	-9.92	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18	-20.48	-21.57
35	-9.92	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-11.22	-11.67	-11.67	-11.93	-12.60	-13.77	-14.32	-16.01	-16.68	-18.14	-19.86	-21.25
40	-9.92	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-11.22	-11.67	-11.67	-11.93	-12.60	-13.77	-14.32	-16.01	-16.68	-18.14	-19.86	-21.25
45	-9.92	-9.92	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18	-20.48
50	-9.92	-9.92	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-11.22	-11.67	-11.93	-12.60	-13.77	-14.32	-16.01	-16.68	-18.14	-19.86	-21.25
55	-9.92	-9.92	-9.92	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24	-18.10	-19.18
60	-9.92	-9.92	-9.92	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-11.22	-11.67	-11.93	-12.60	-13.77	-14.32	-16.01	-16.68	-18.14	-19.18
65	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79	-12.30	-13.09	-14.34	-15.18	-16.24
70	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-10.01	-9.84	-10.40	-10.56	-10.71	-11.67	-11.79	-12.60	-13.77	-14.32	-14.32
75	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.88	-9.87	-9.99	-9.98	-10.71	-10.88	-11.64	-11.79
80	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92
85	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92
90	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92	-9.92

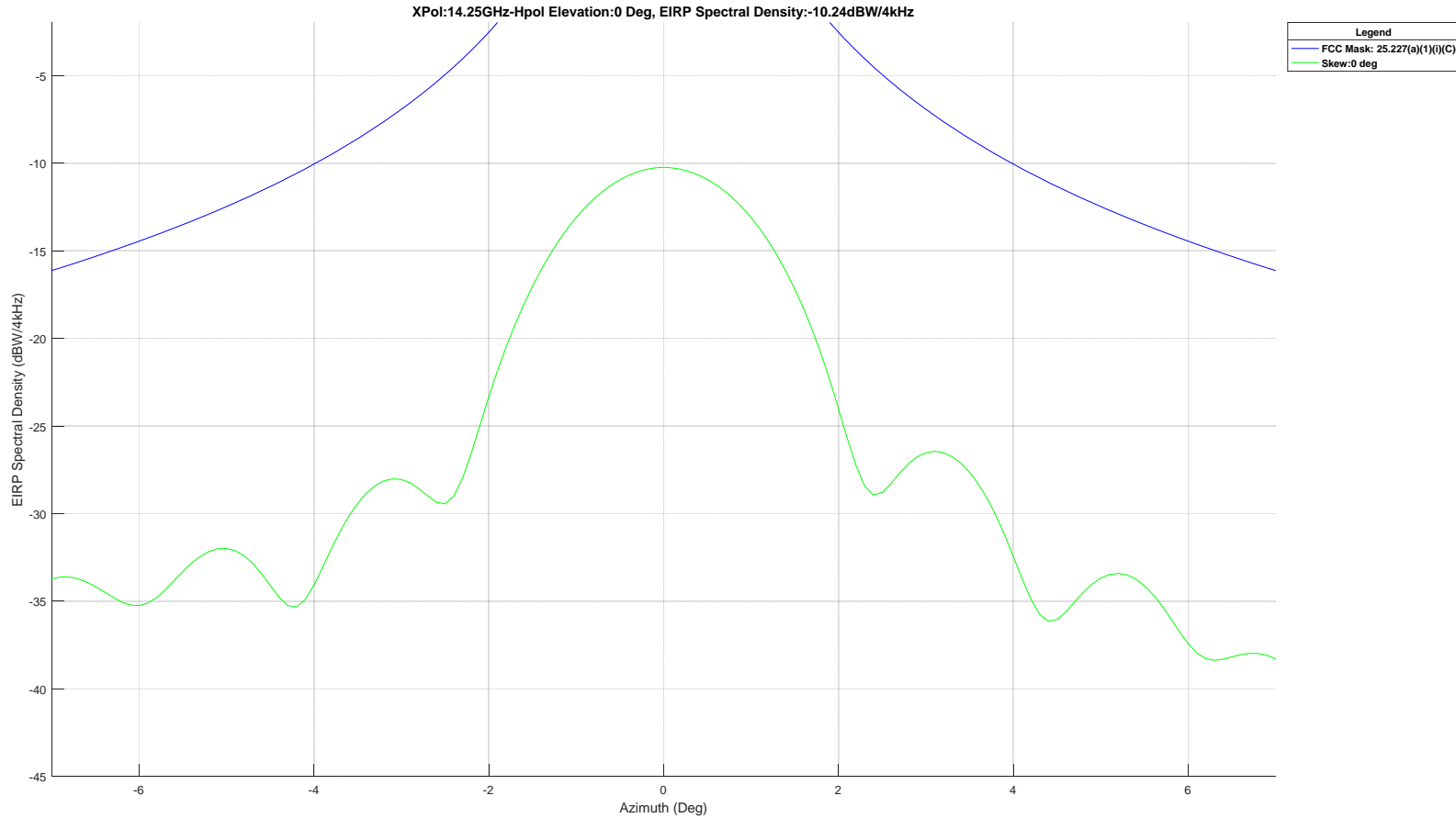
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-10.41DBW/4KHZ



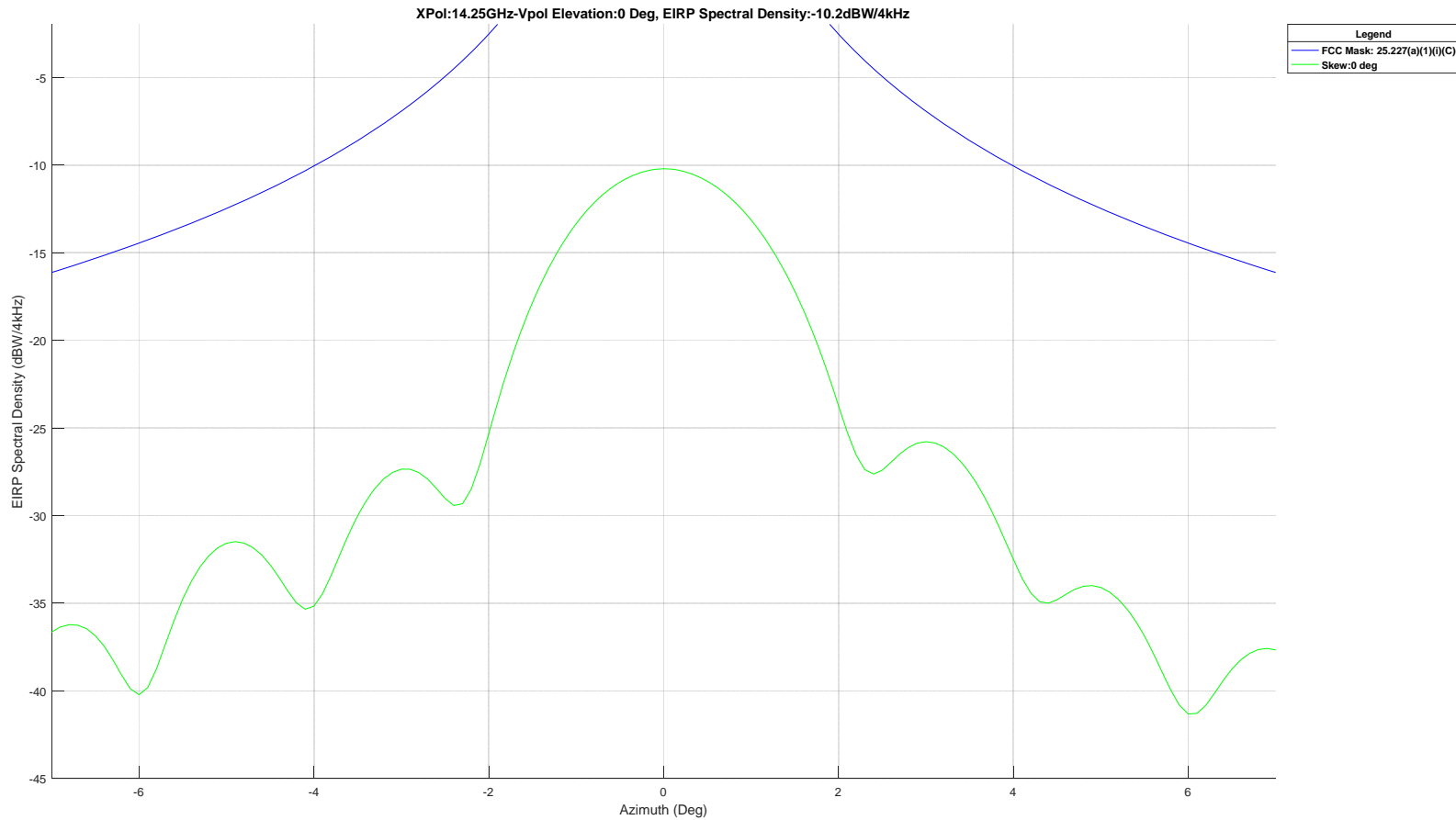
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-10.43DBW/4KHZ



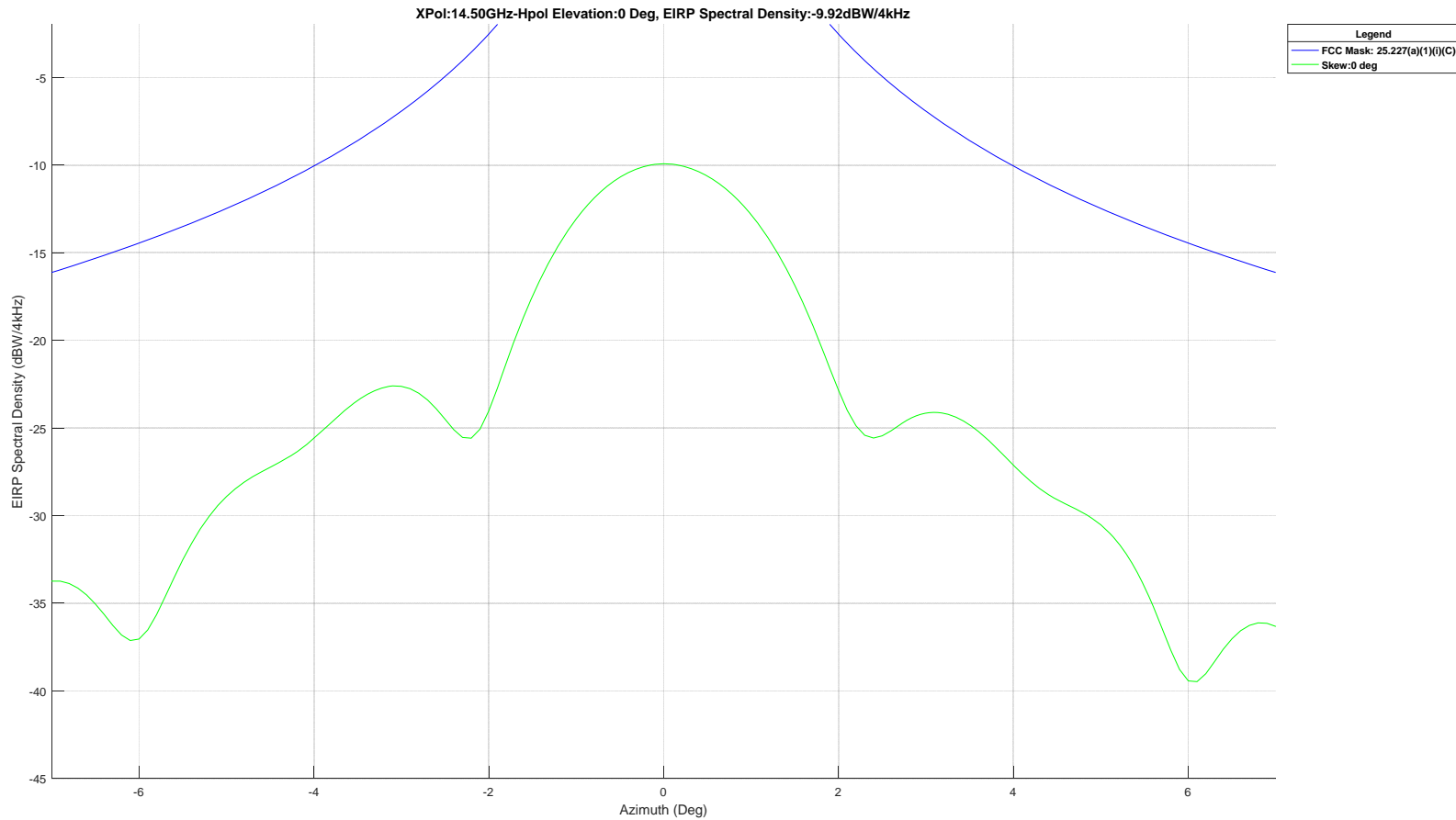
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-10.24DBW/4KHZ



# XPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-10.2DBW/4KHZ

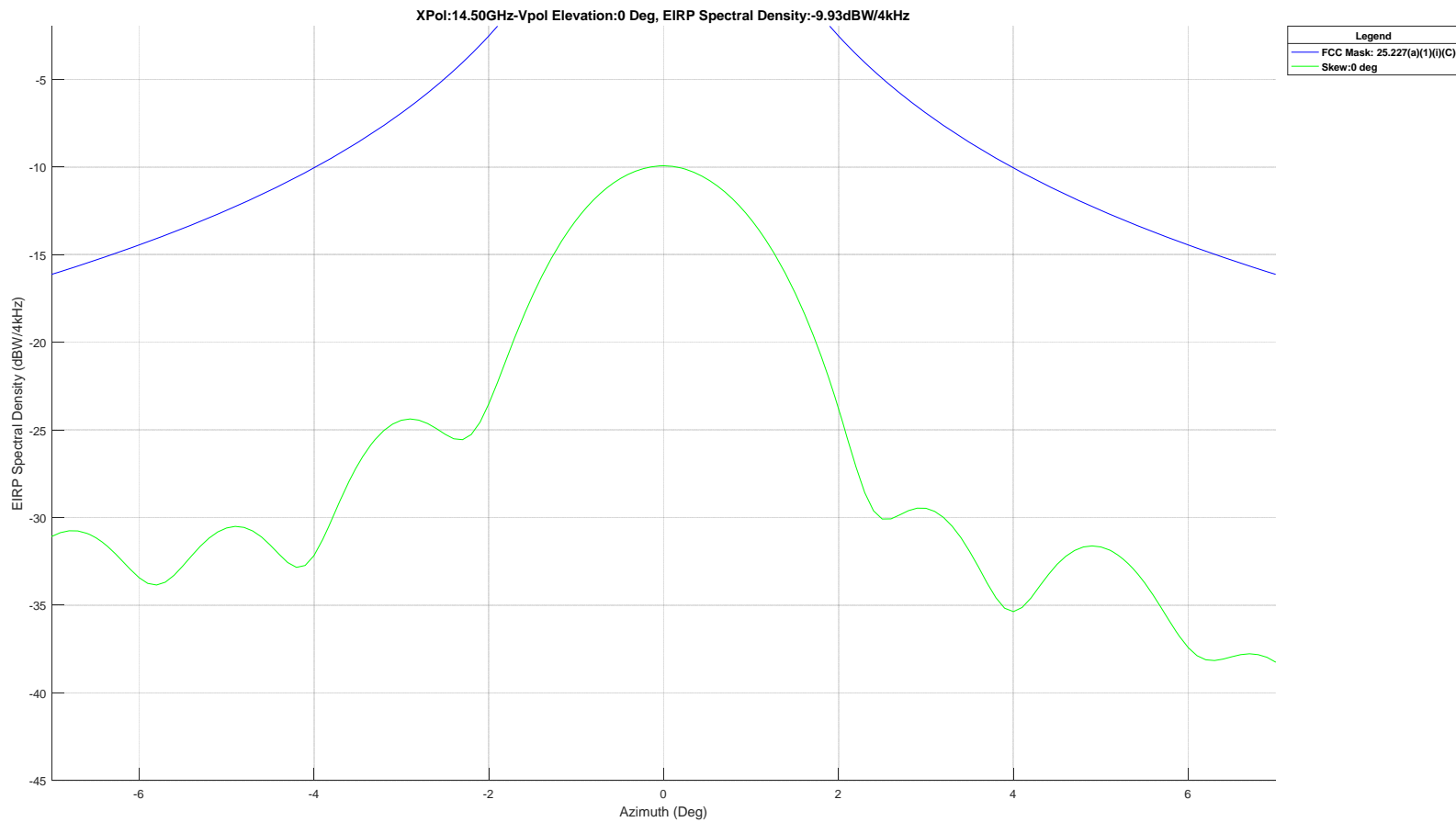


# XPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-9.92DBW/4KHZ

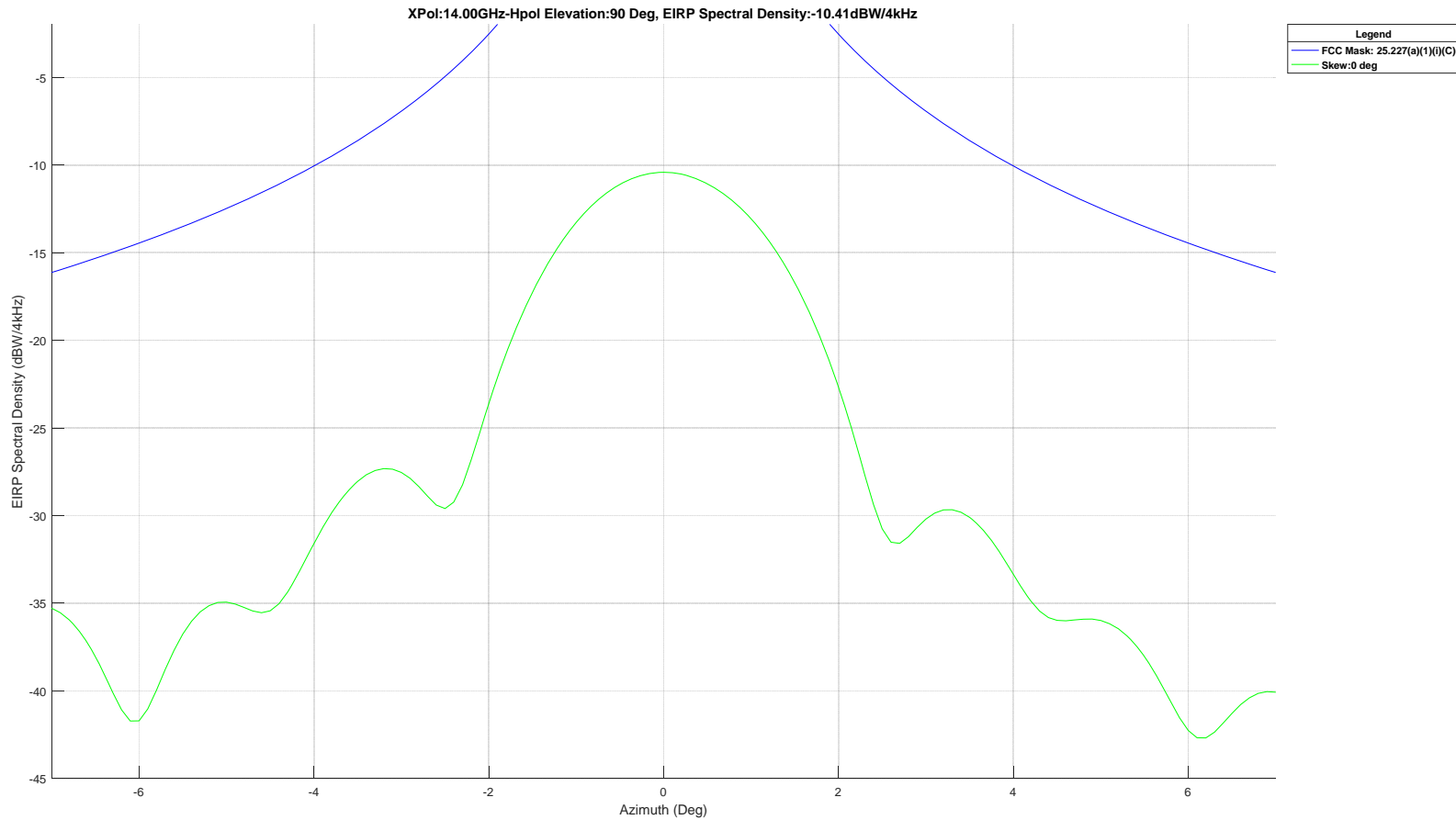




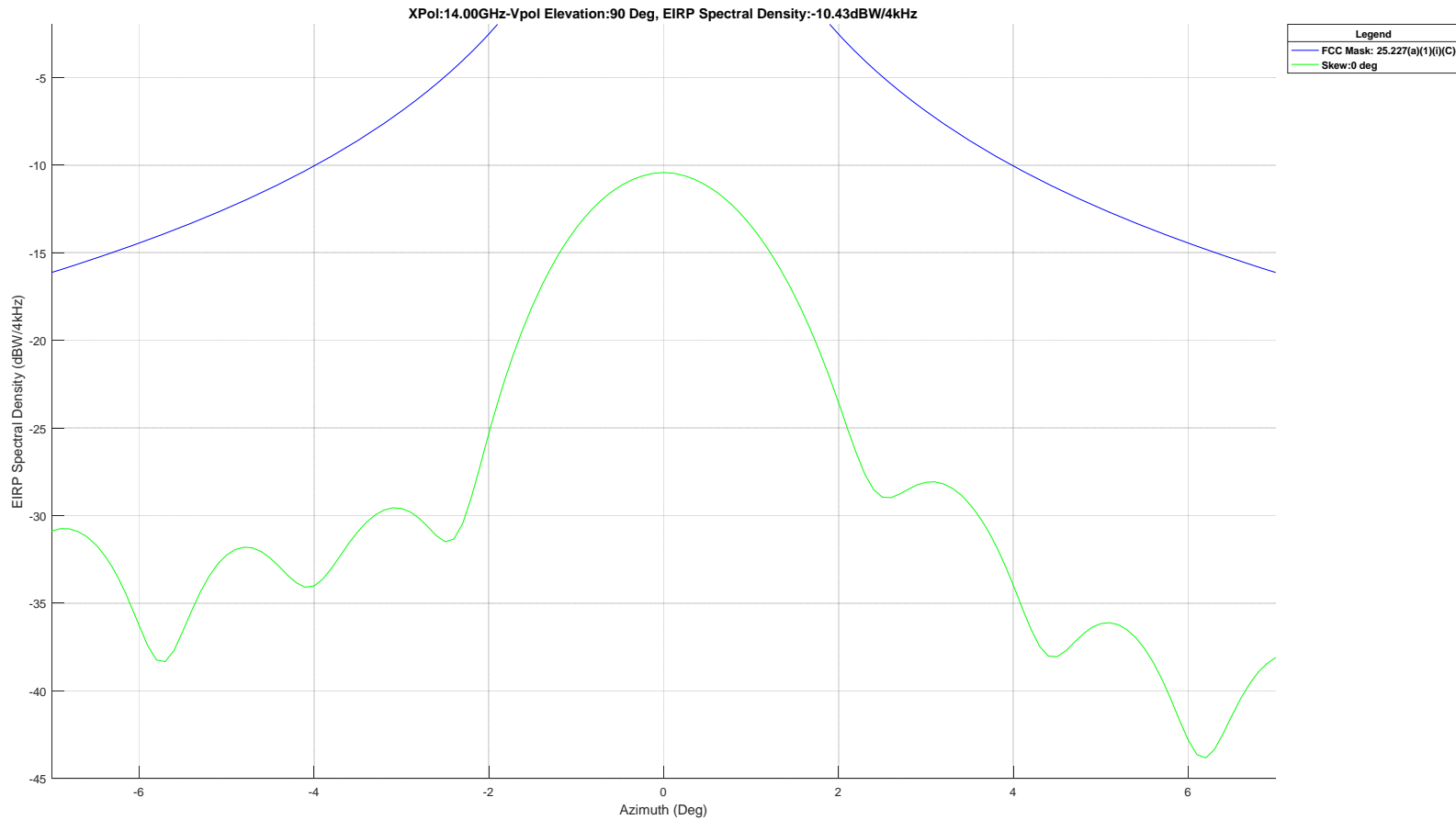
# XPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-9.93DBW/4KHZ



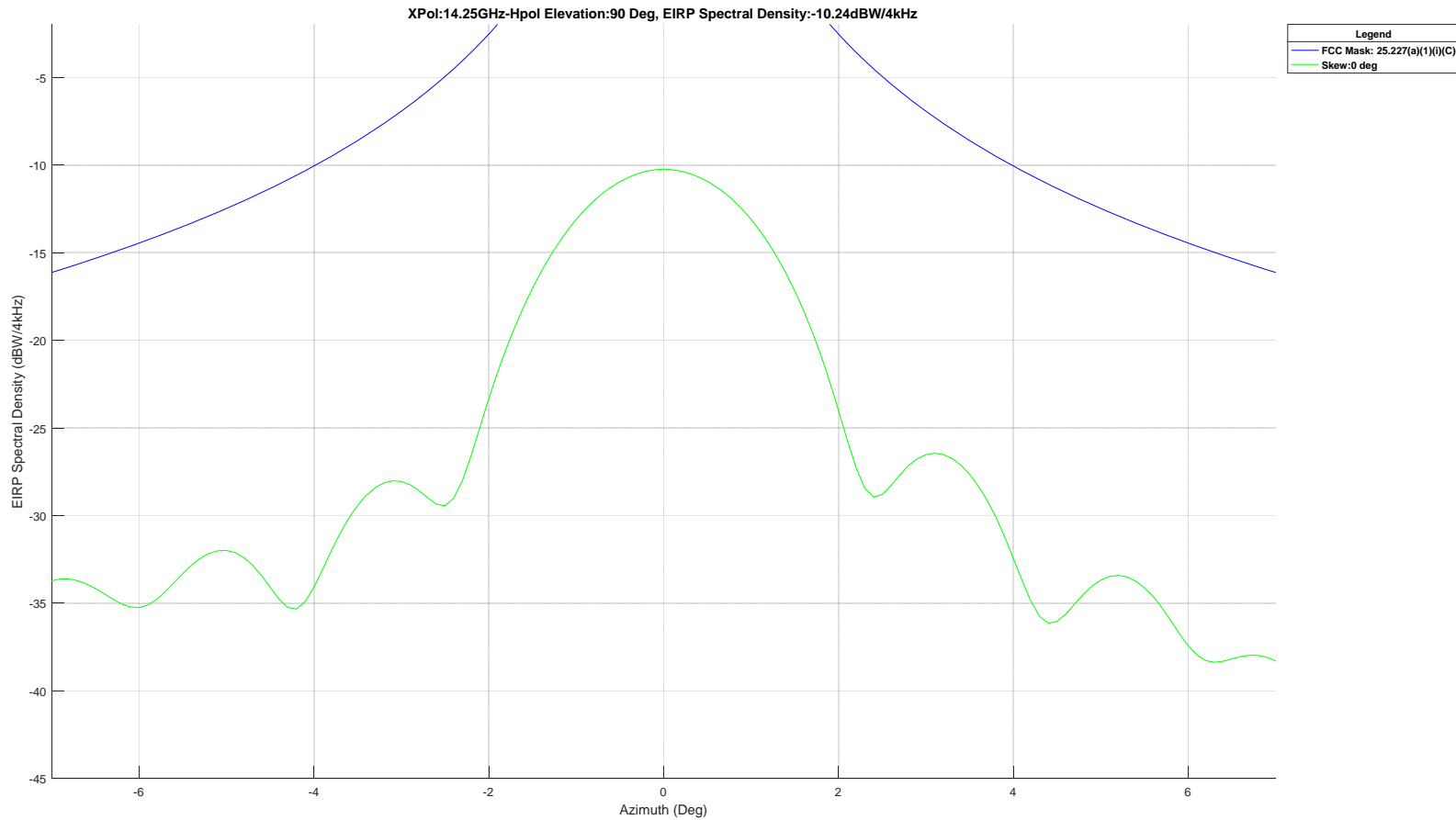
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.41DBW/4KHZ



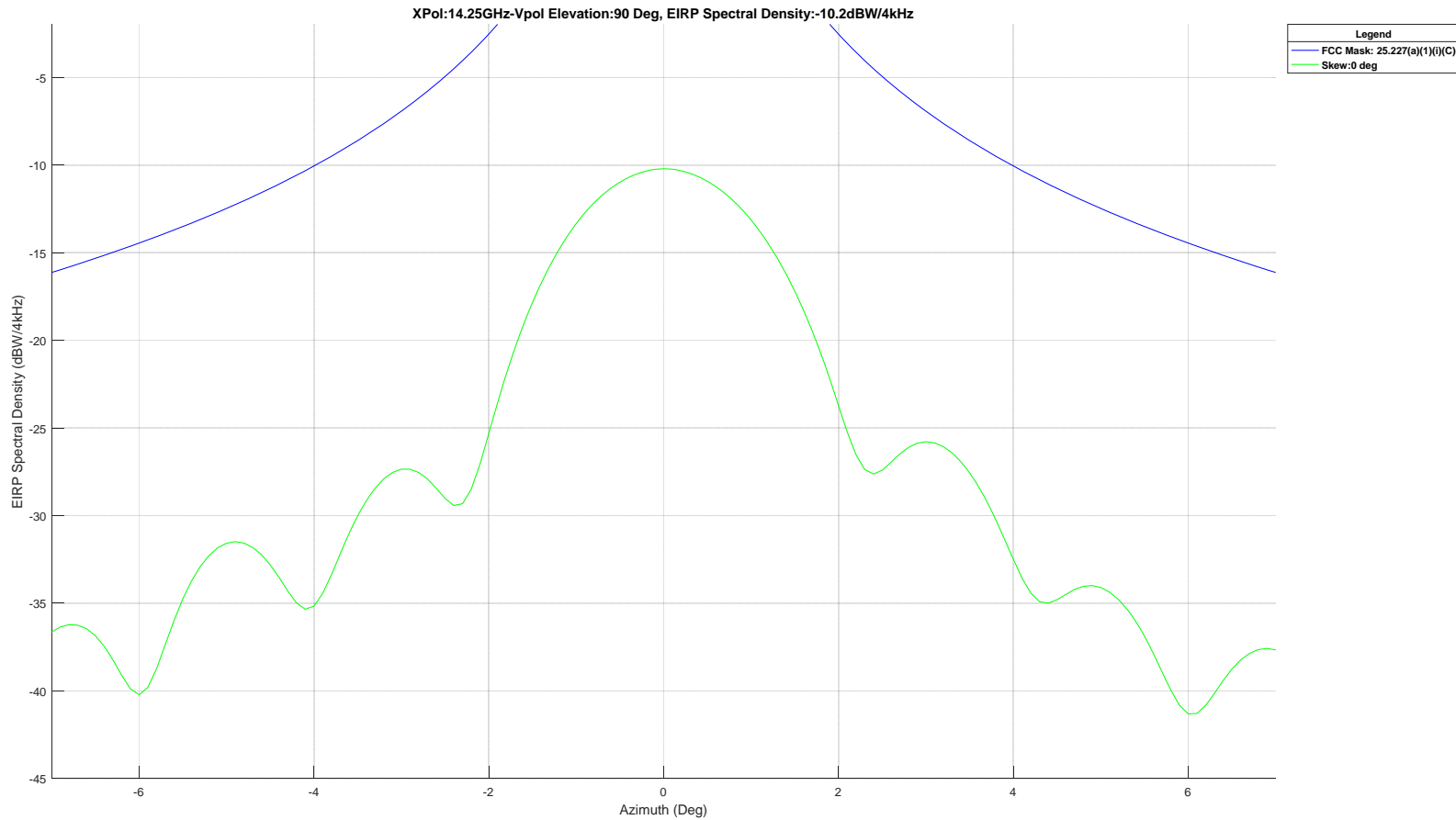
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.43DBW/4KHZ



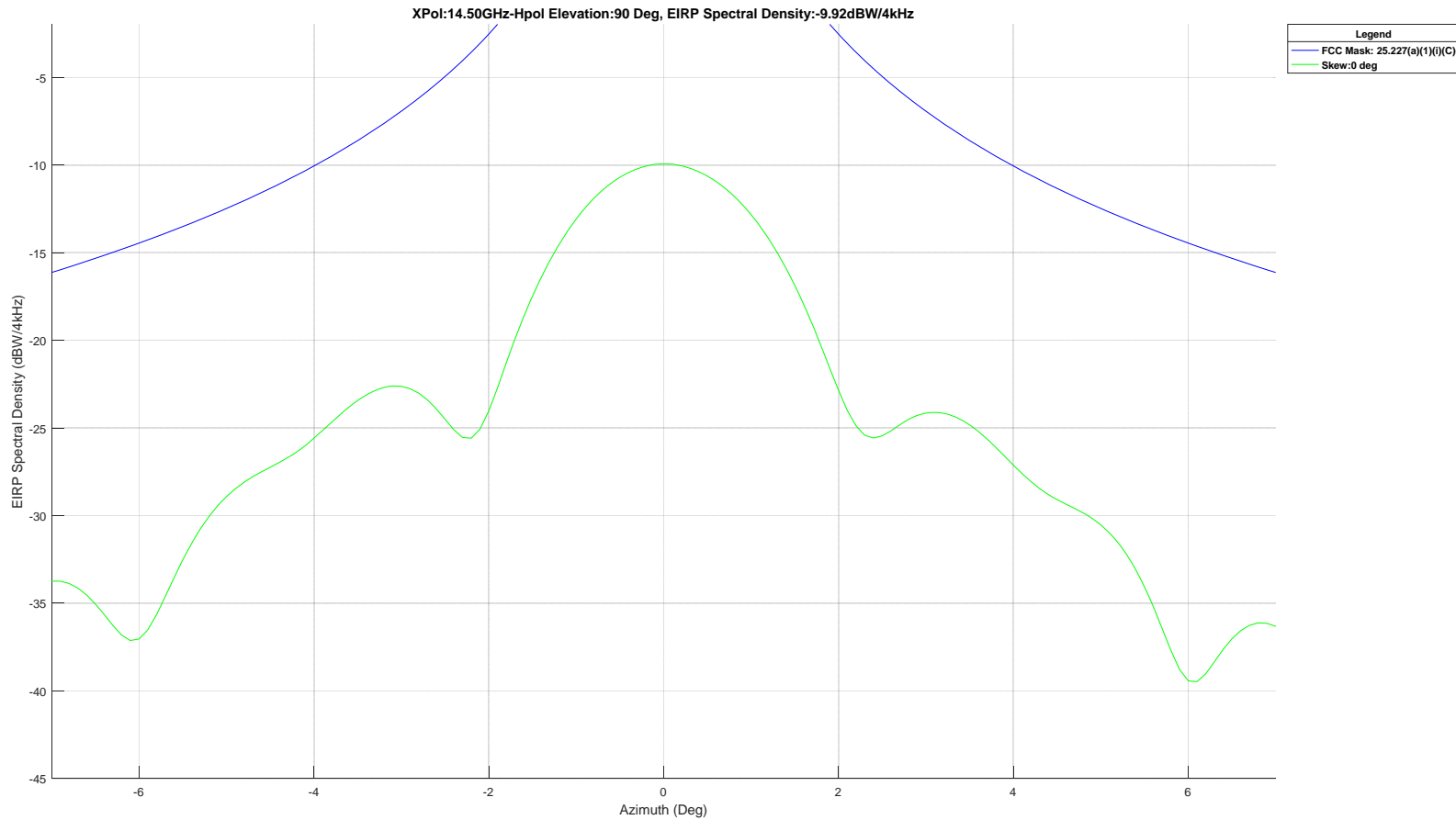
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.24DBW/4KHZ



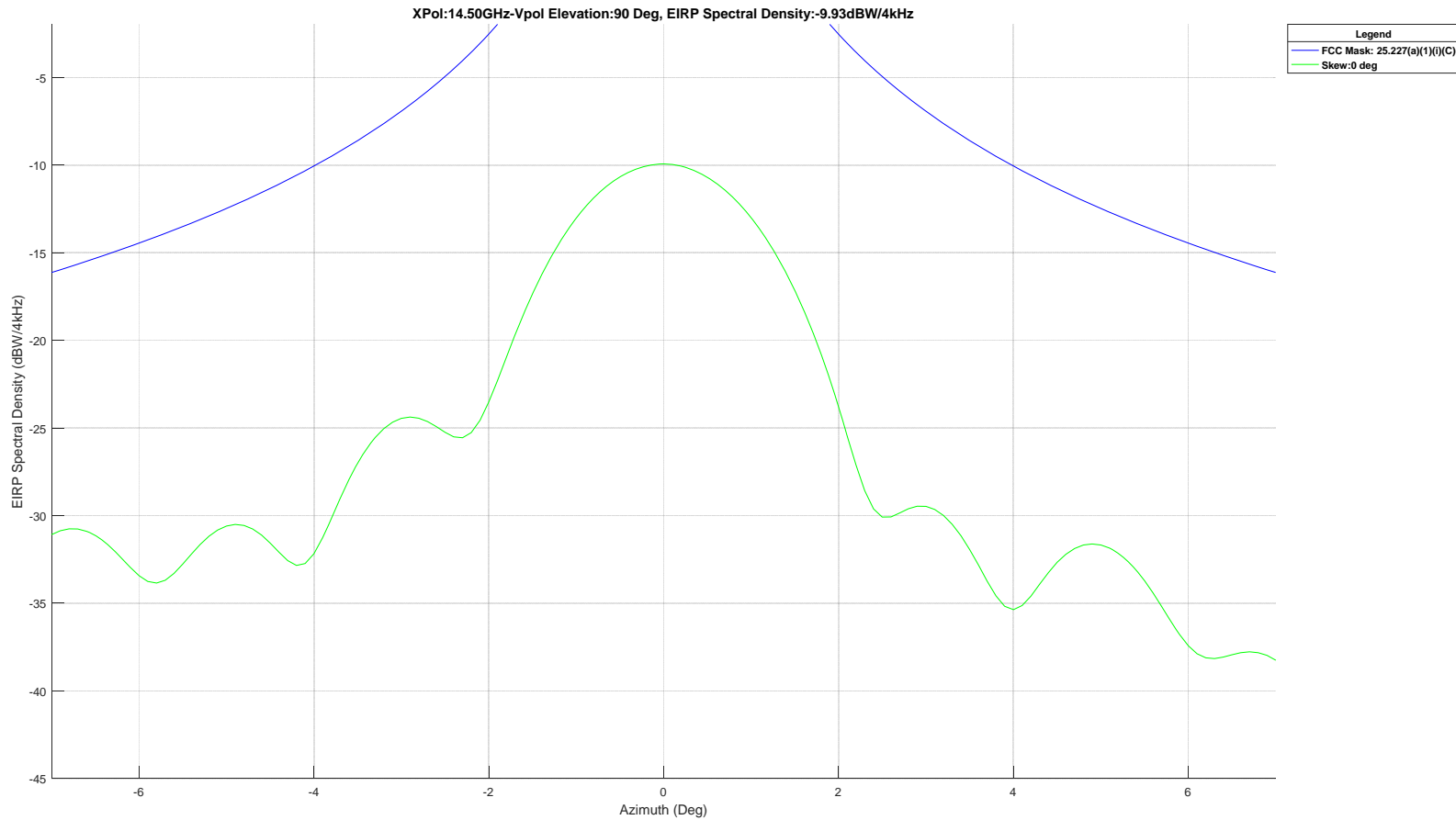
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.2DBW/4KHZ



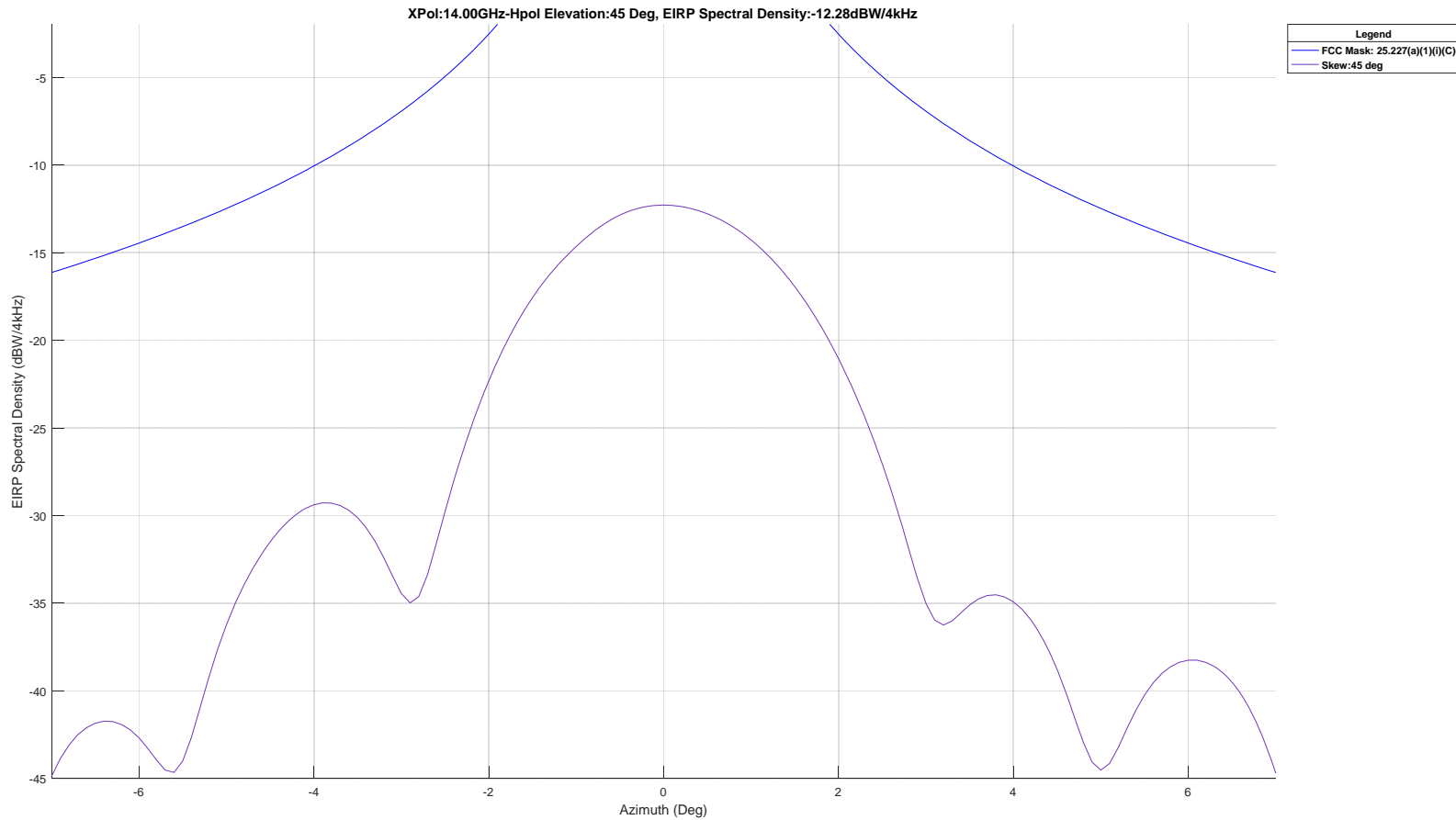
# XPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-9.92DBW/4KHZ



# XPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-9.93DBW/4KHZ

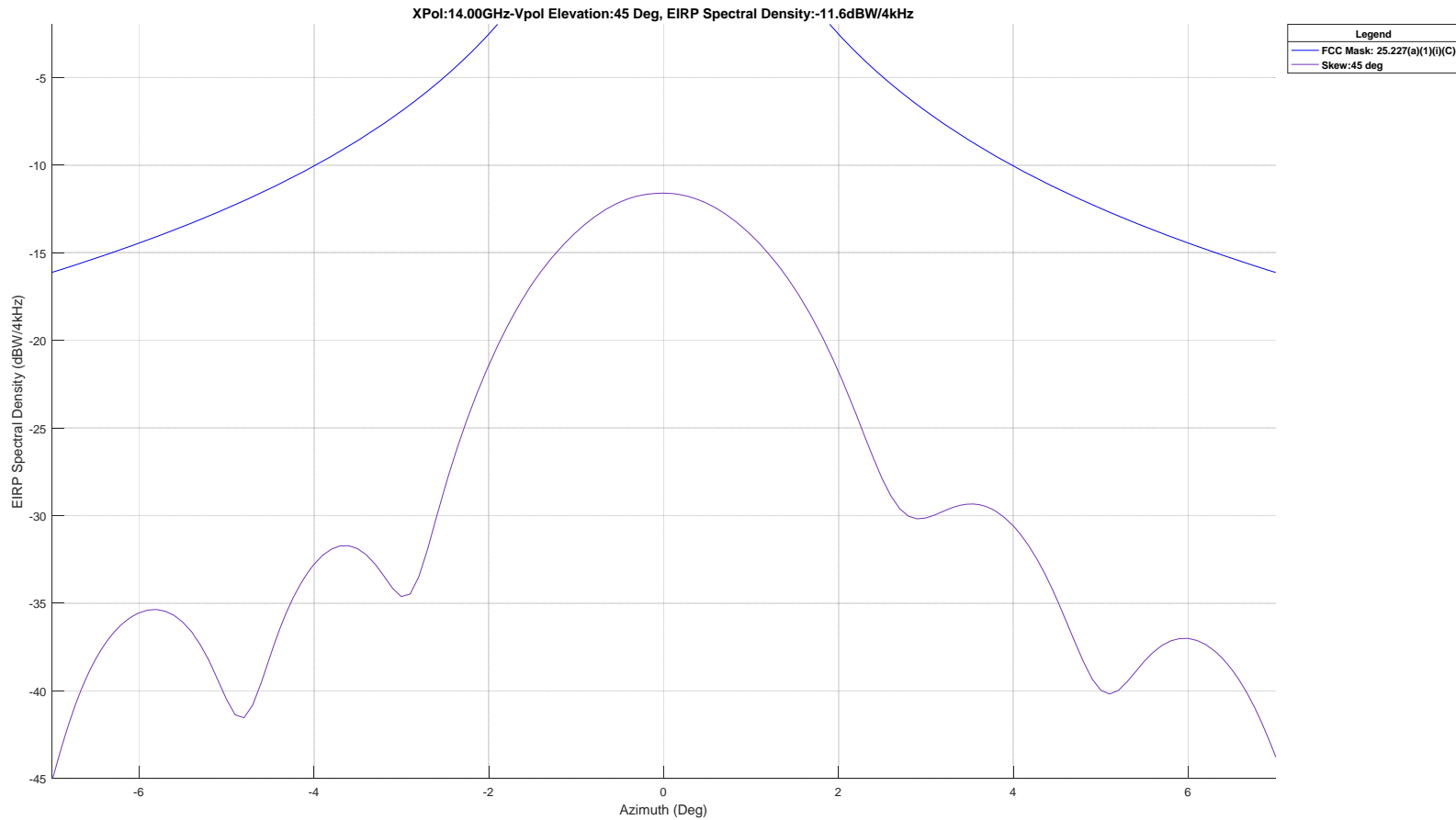


# XPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-12.28DBW/4KHZ

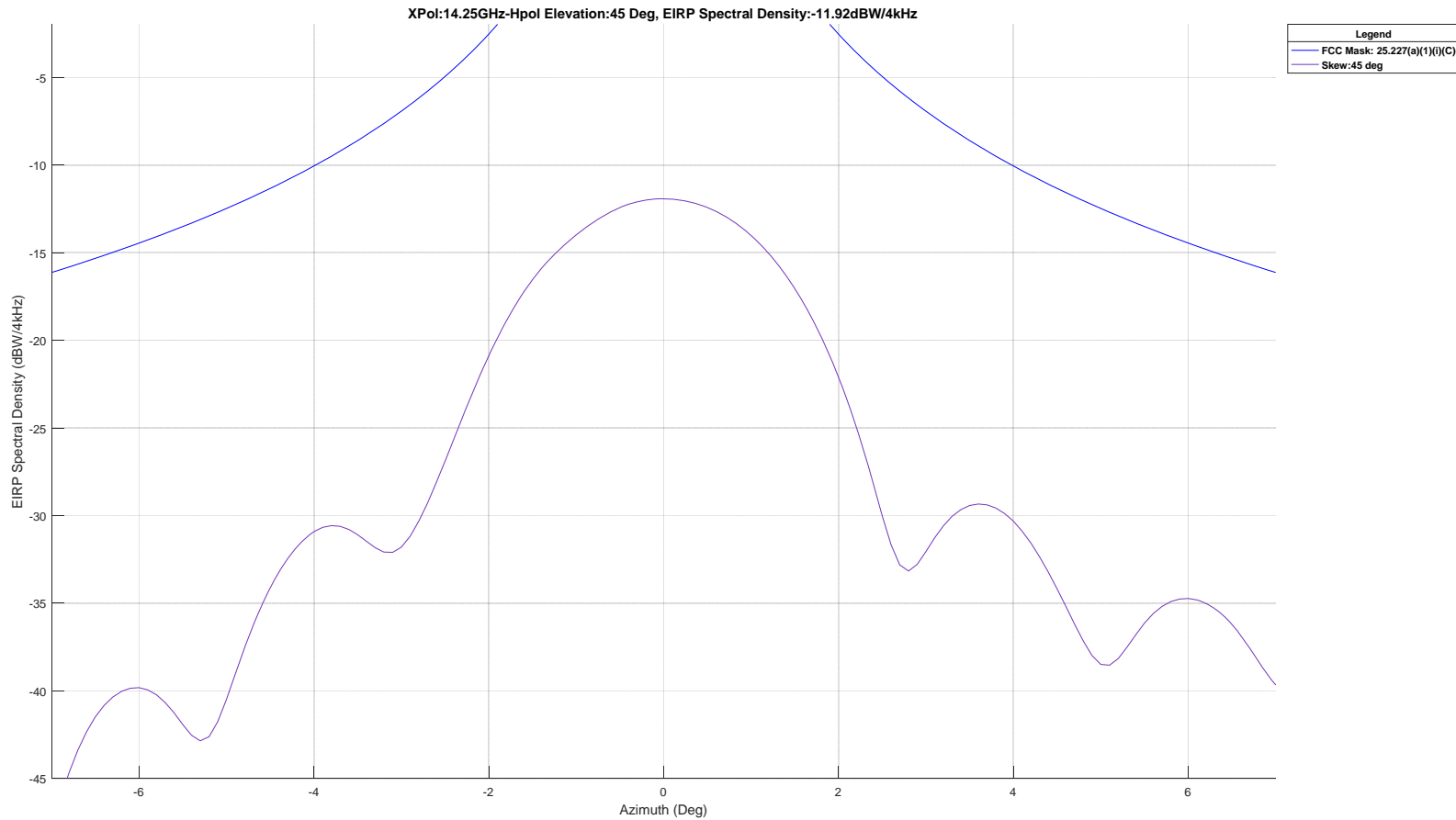




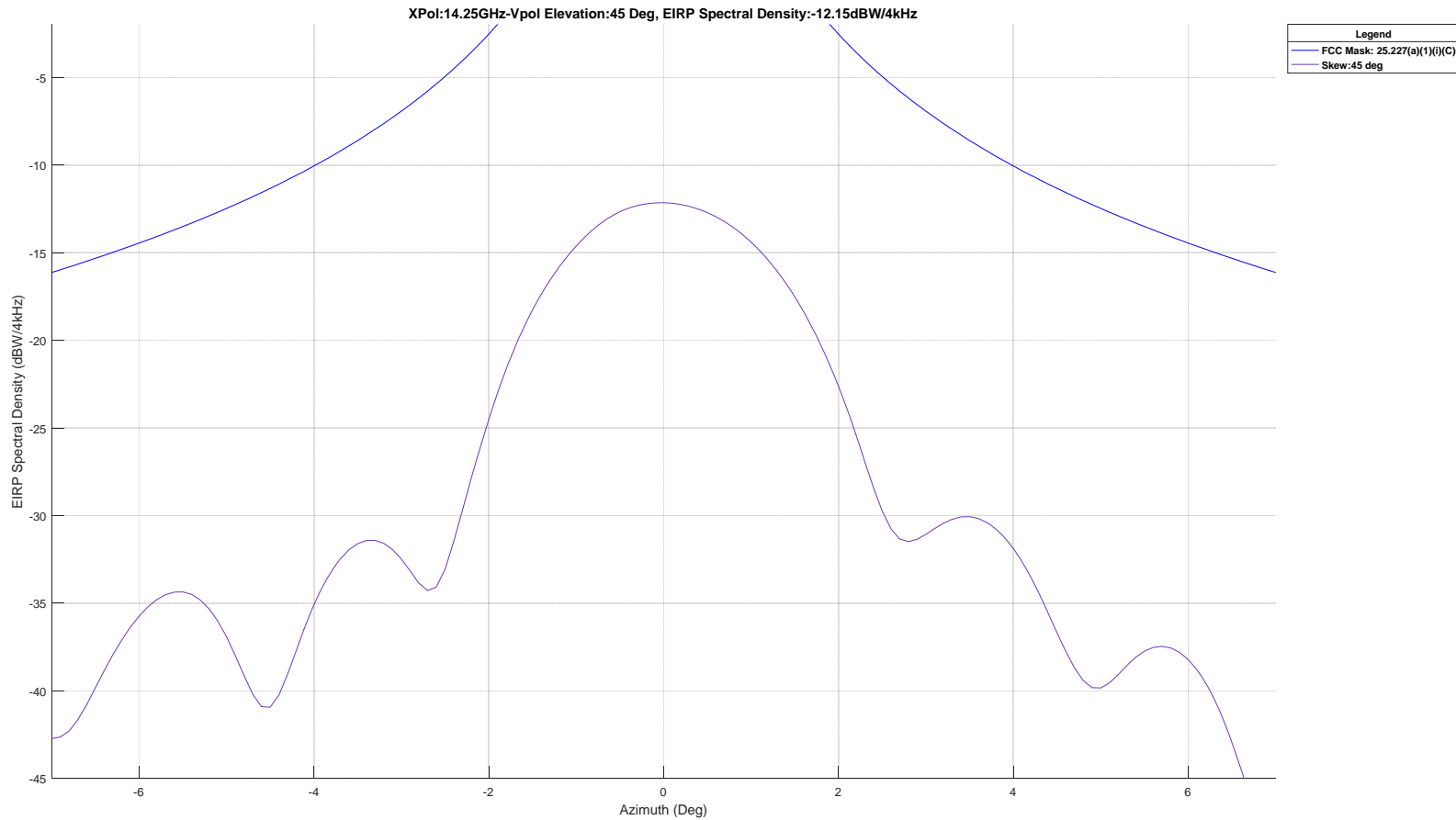
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-11.6DBW/4KHZ



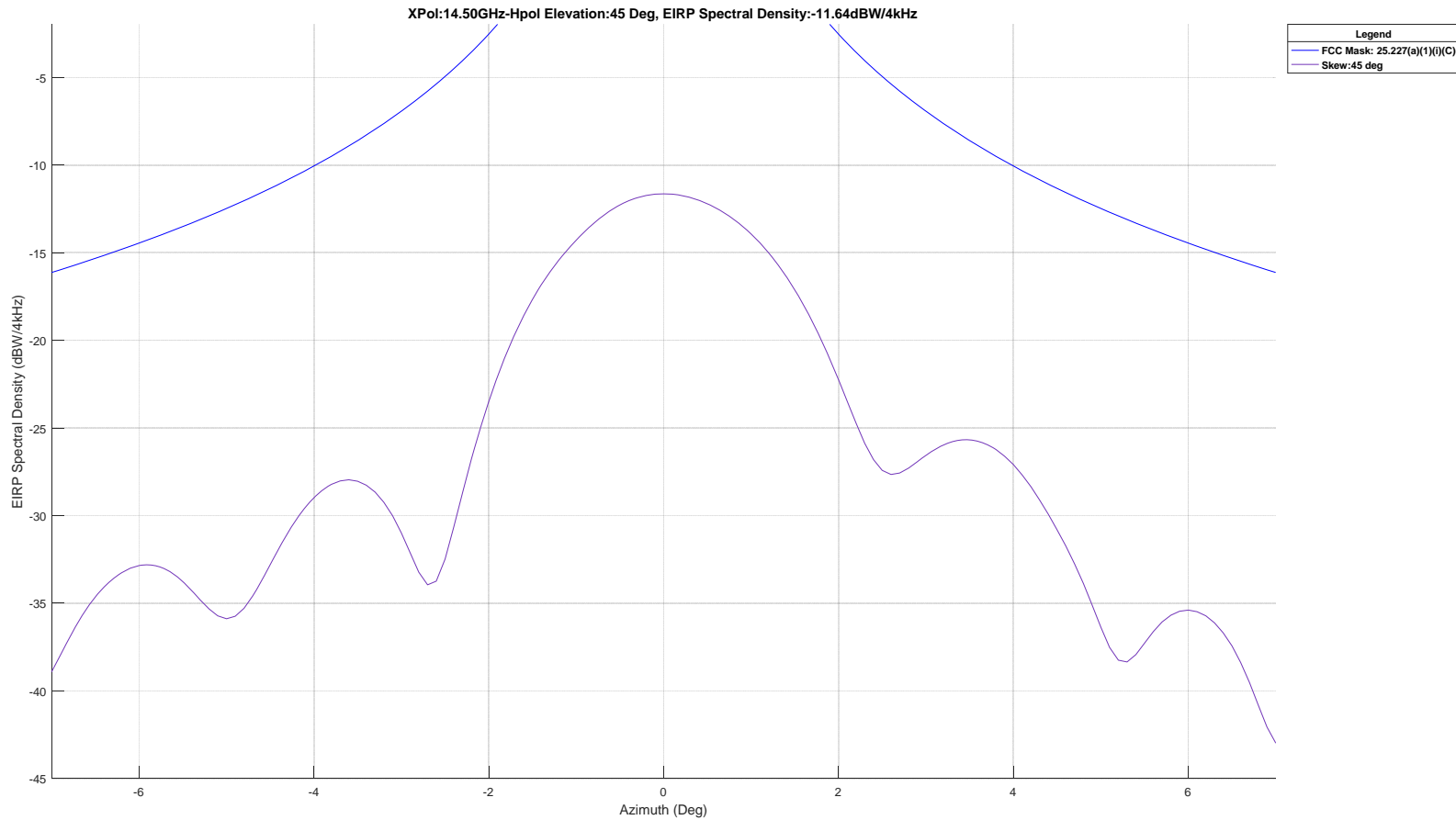
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-11.92DBW/4KHZ



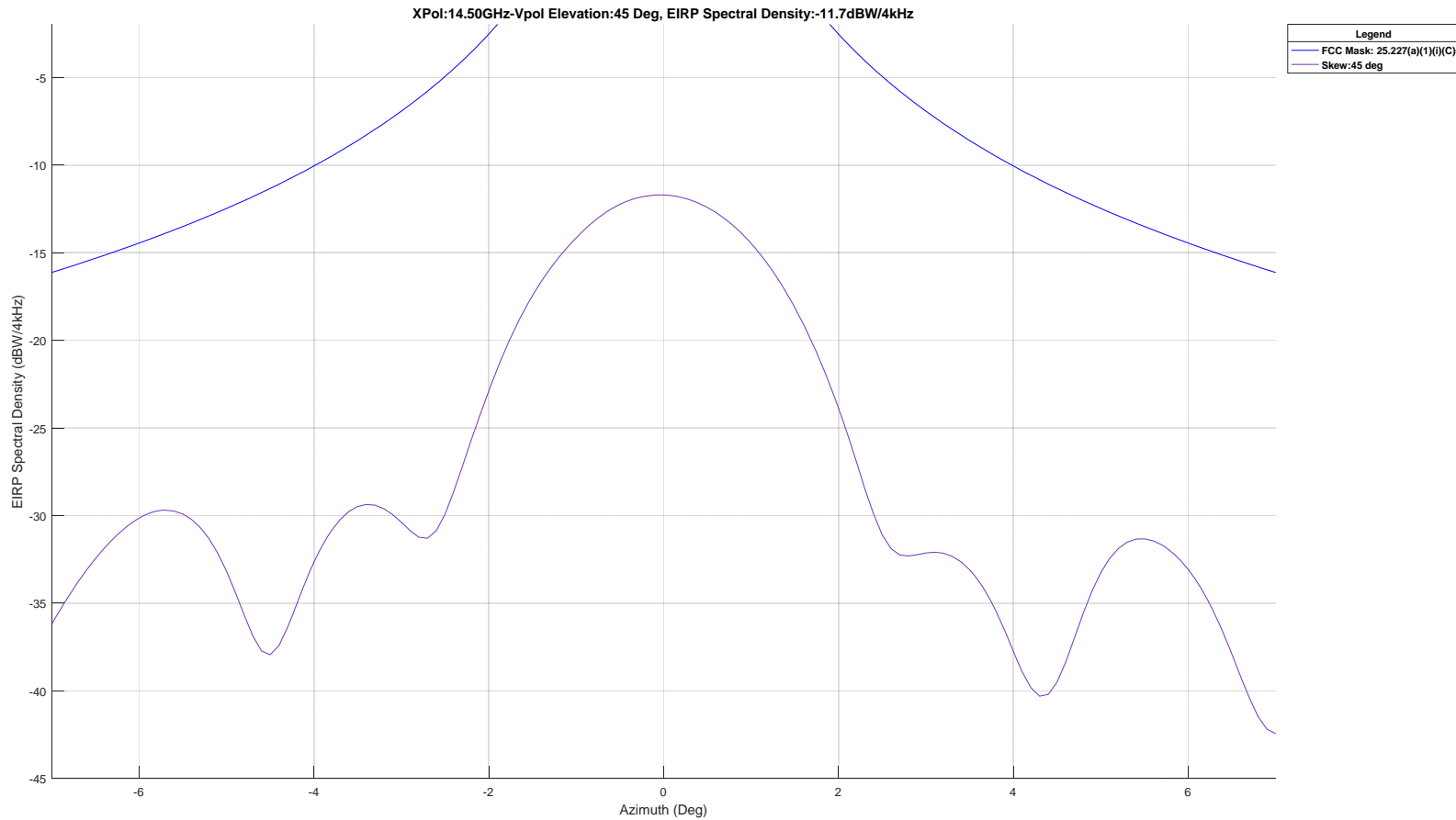
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-12.15DBW/4KHZ



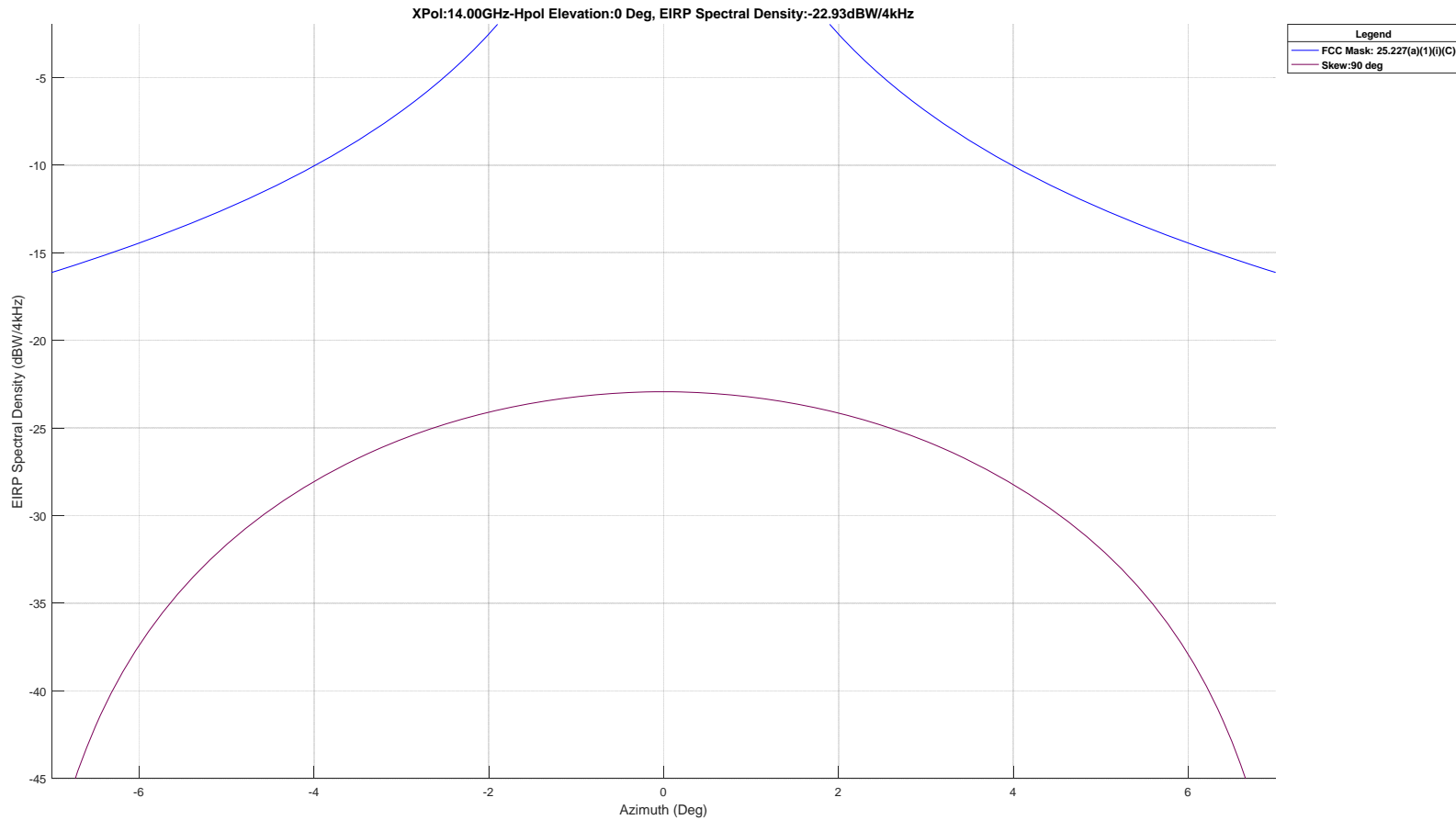
# XPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-11.64DBW/4KHZ



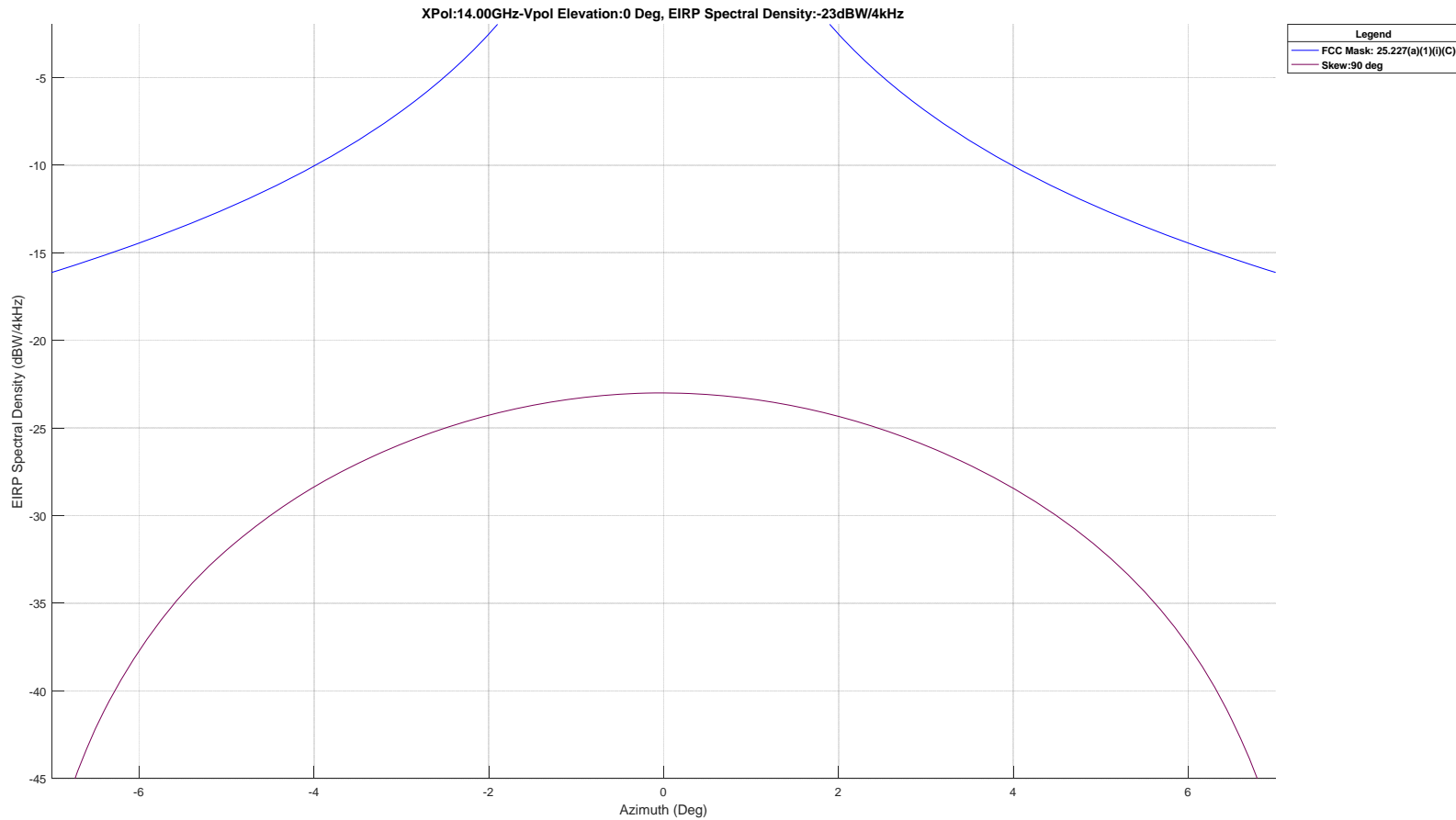
# XPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-11.7DBW/4KHZ



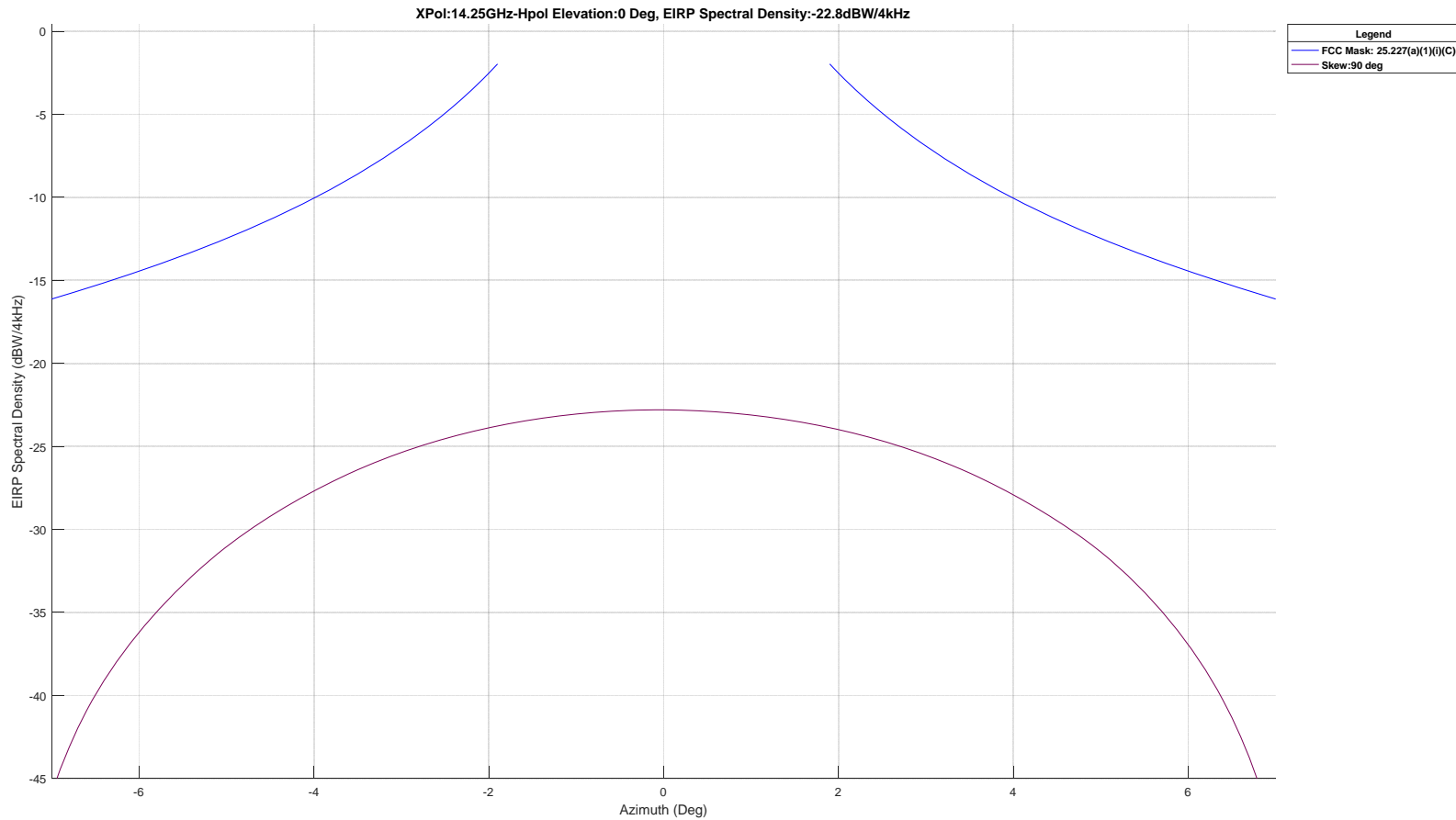
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-22.93DBW/4KHZ



# XPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-23DBW/4KHZ

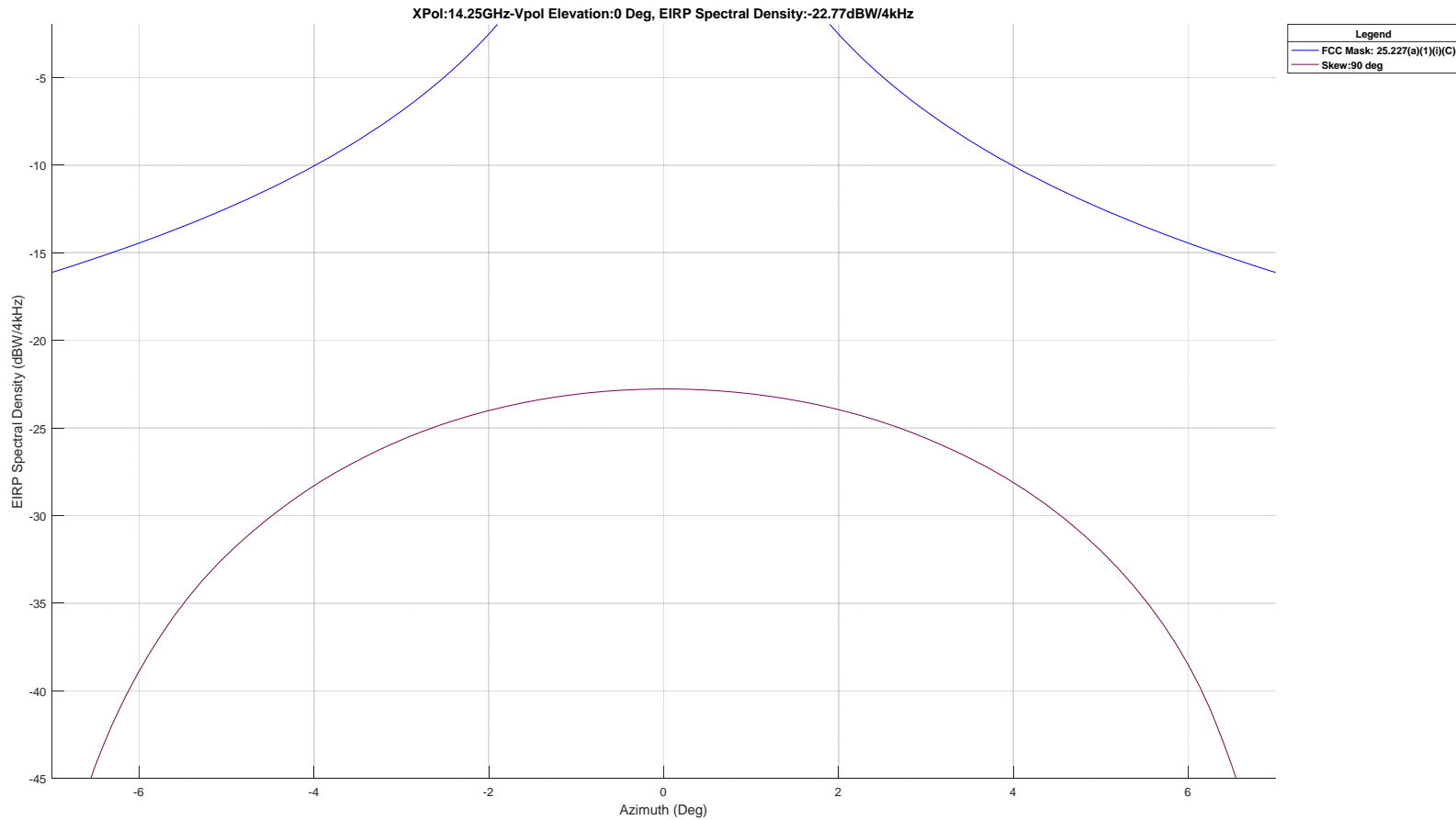


# XPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-22.8DBW/4KHZ

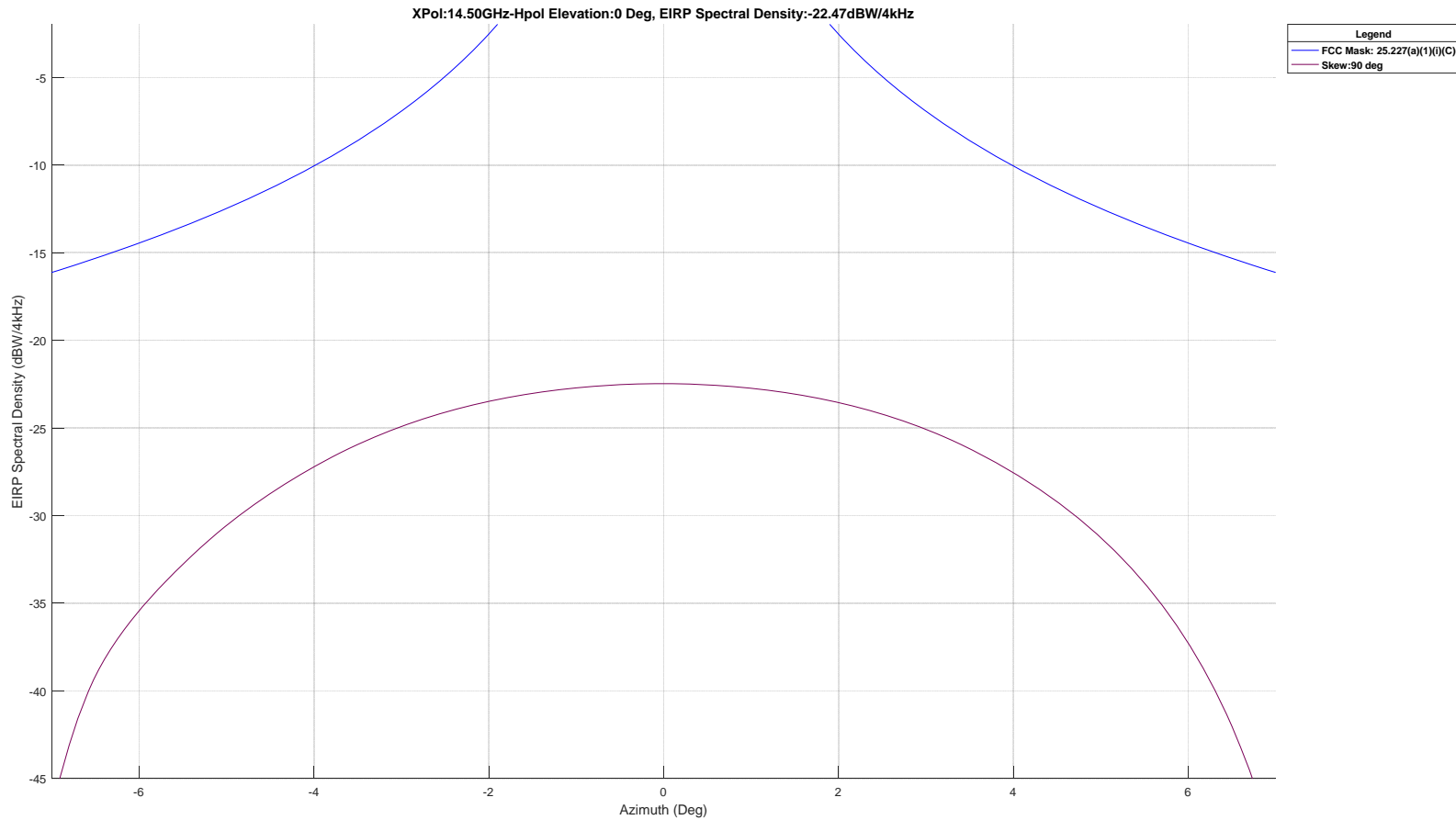




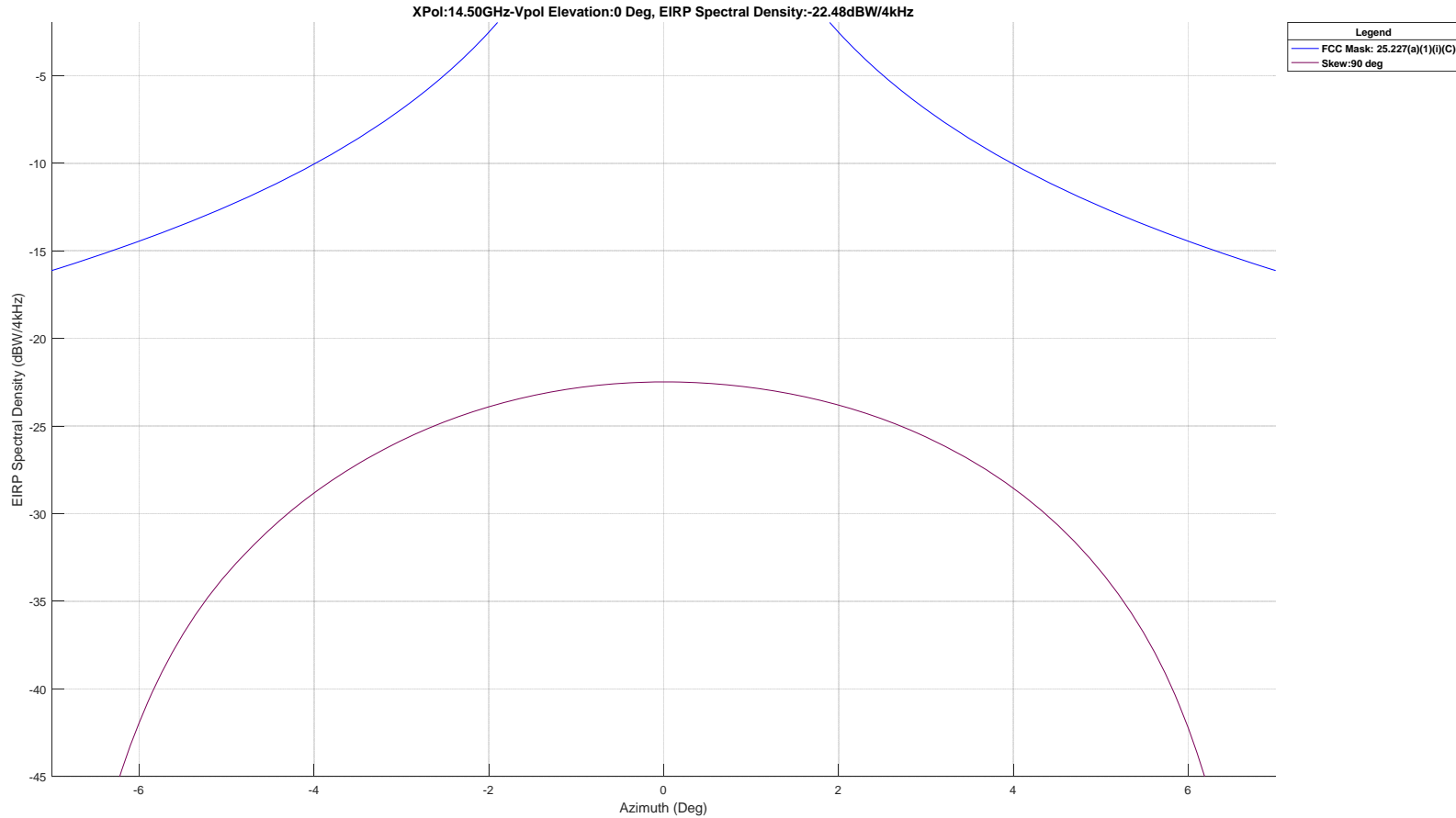
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-22.77DBW/4KHZ



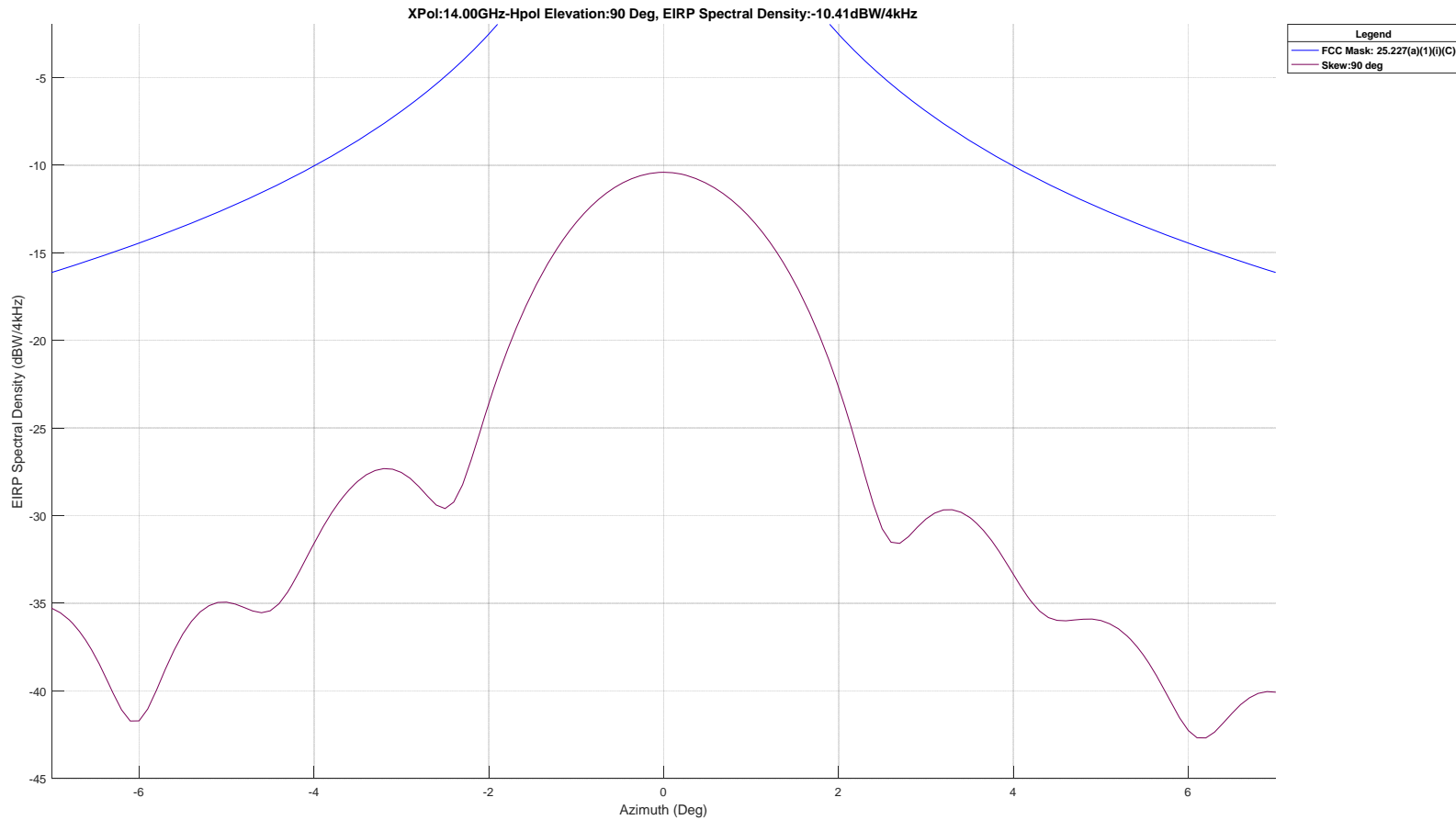
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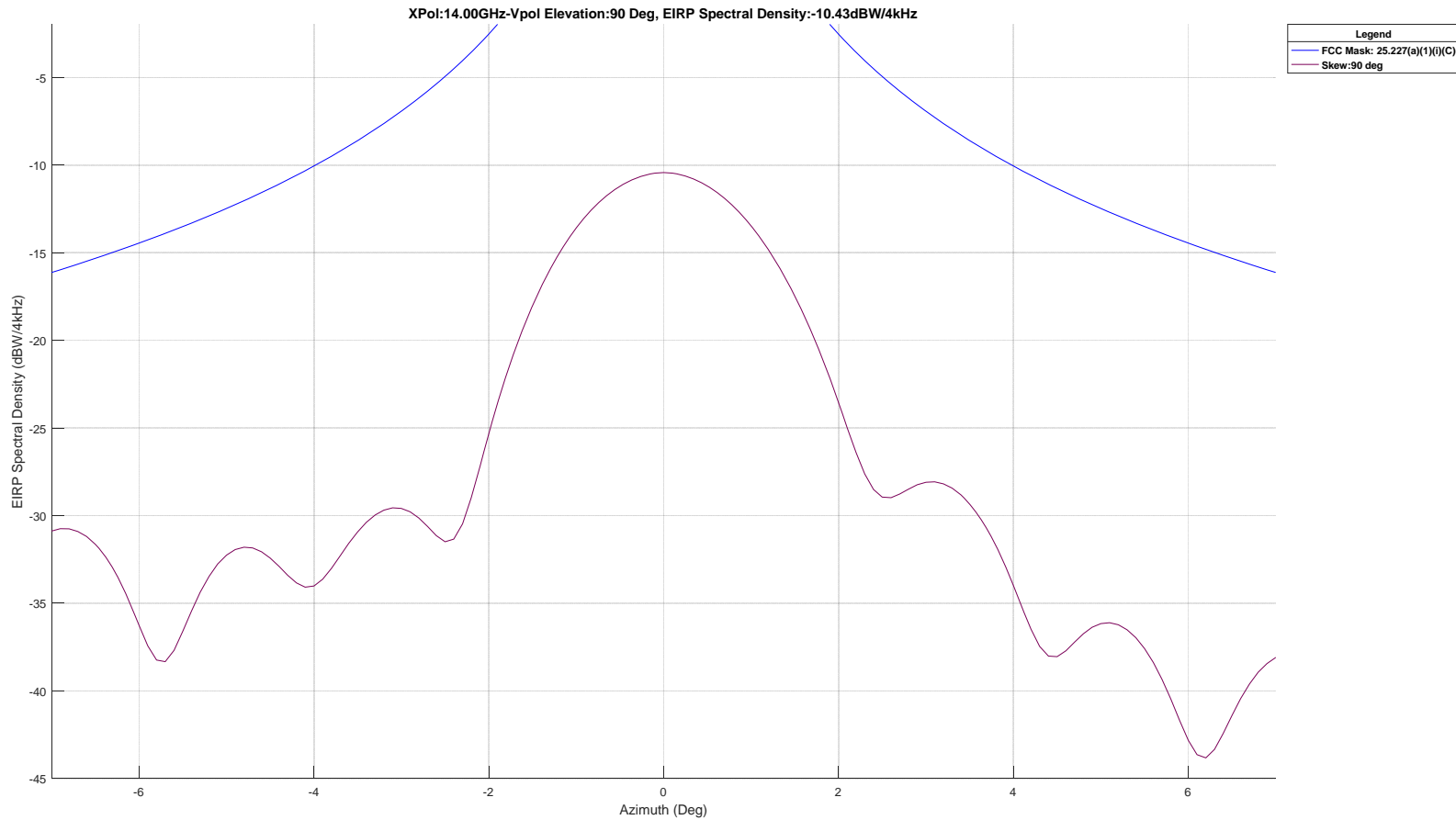
# XPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-22.48DBW/4KHZ



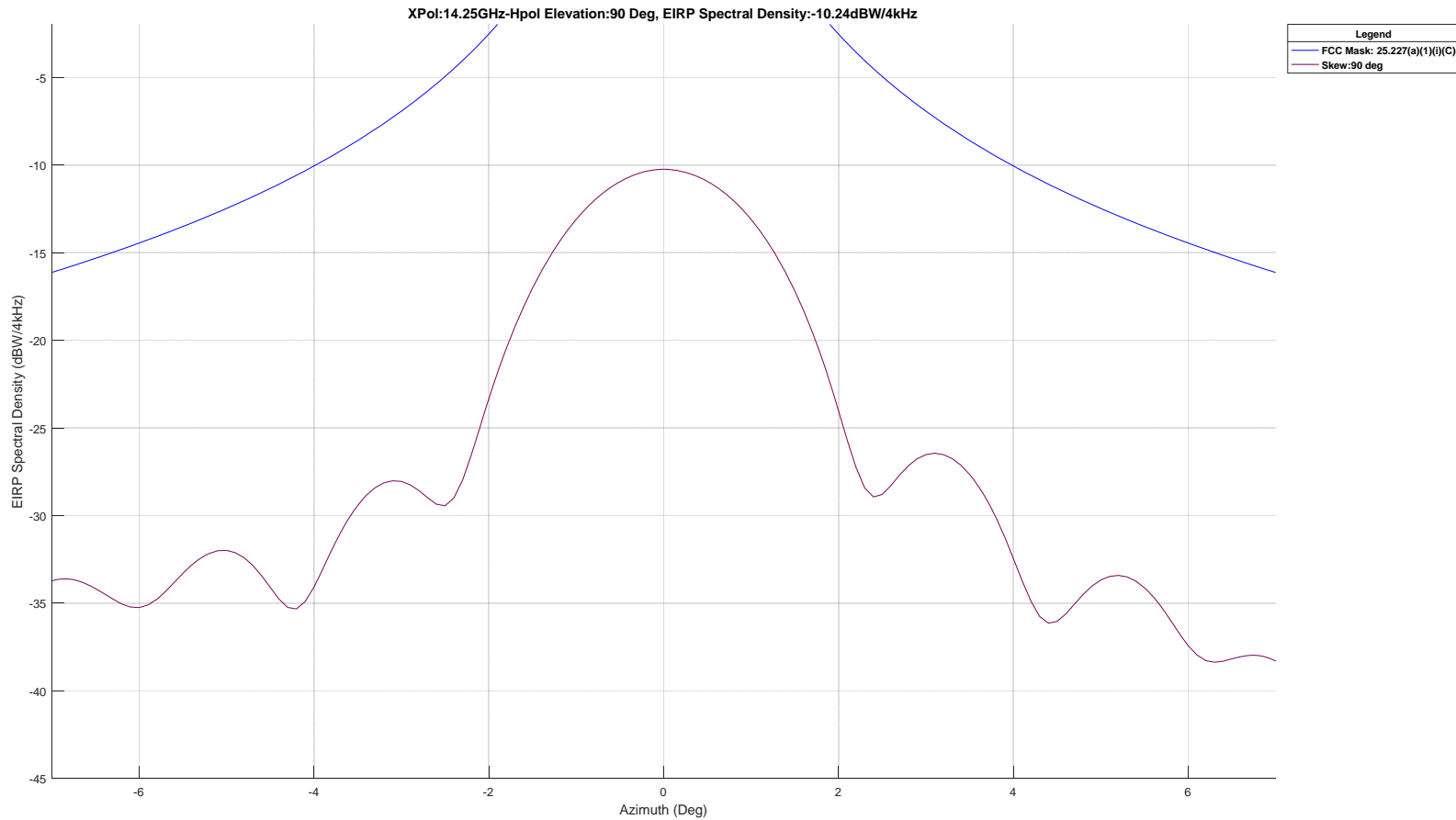
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.41DBW/4KHZ



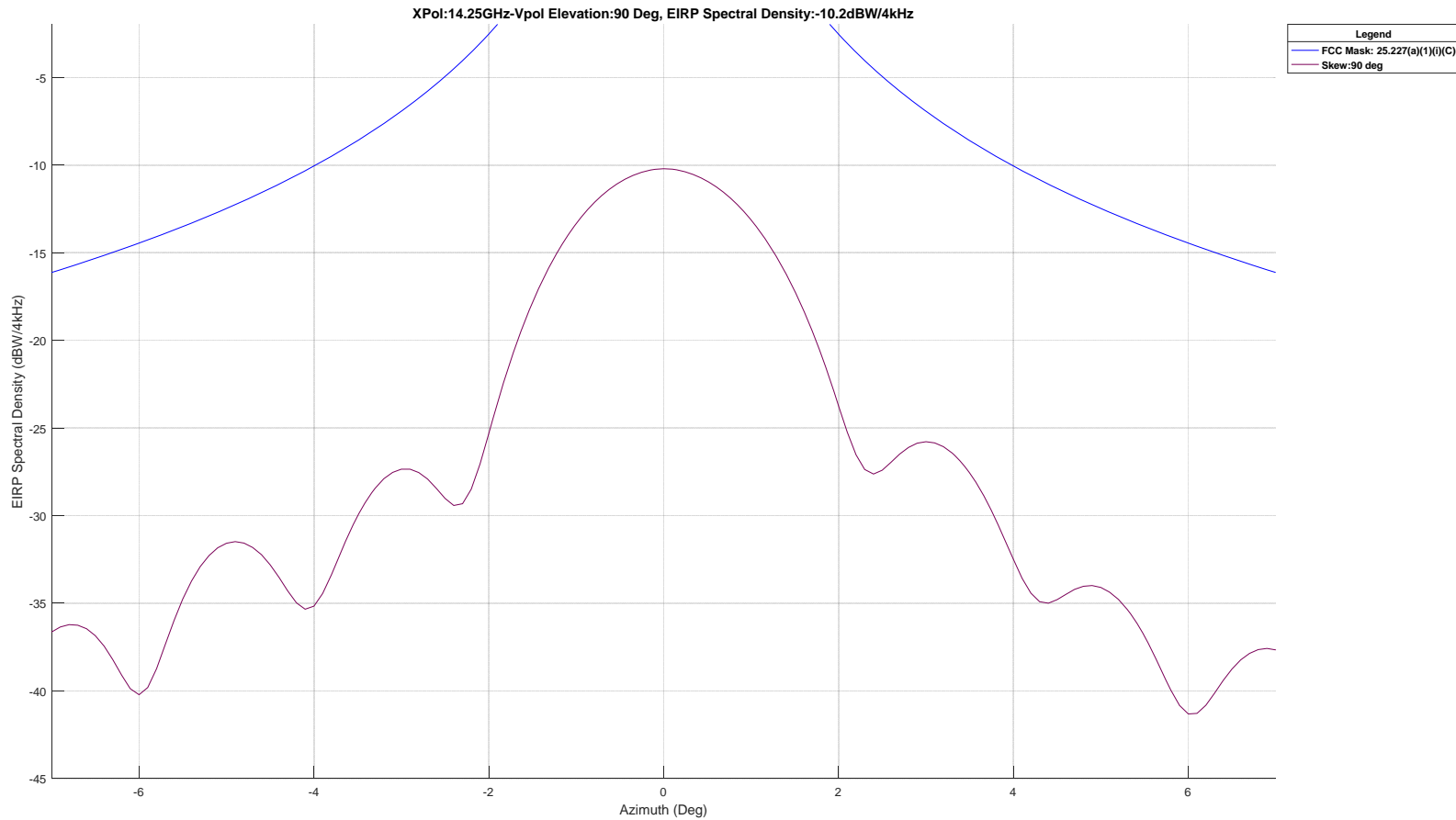
# XPOL-TANGENT TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.43DBW/4KHZ



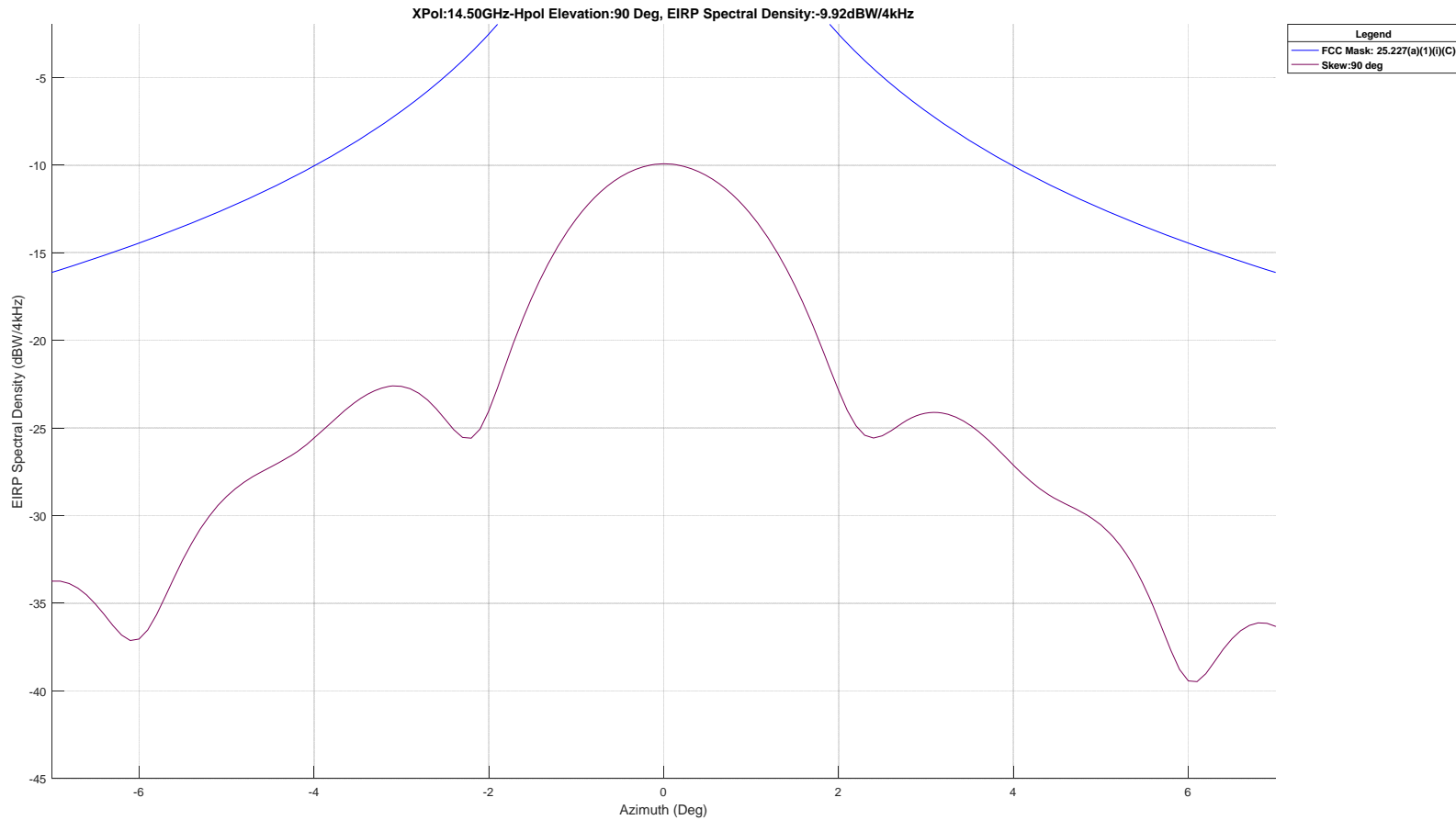
# XPOL-TANGENT TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.24DBW/4KHZ



# XPOL-TANGENT TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-10.2DBW/4KHZ

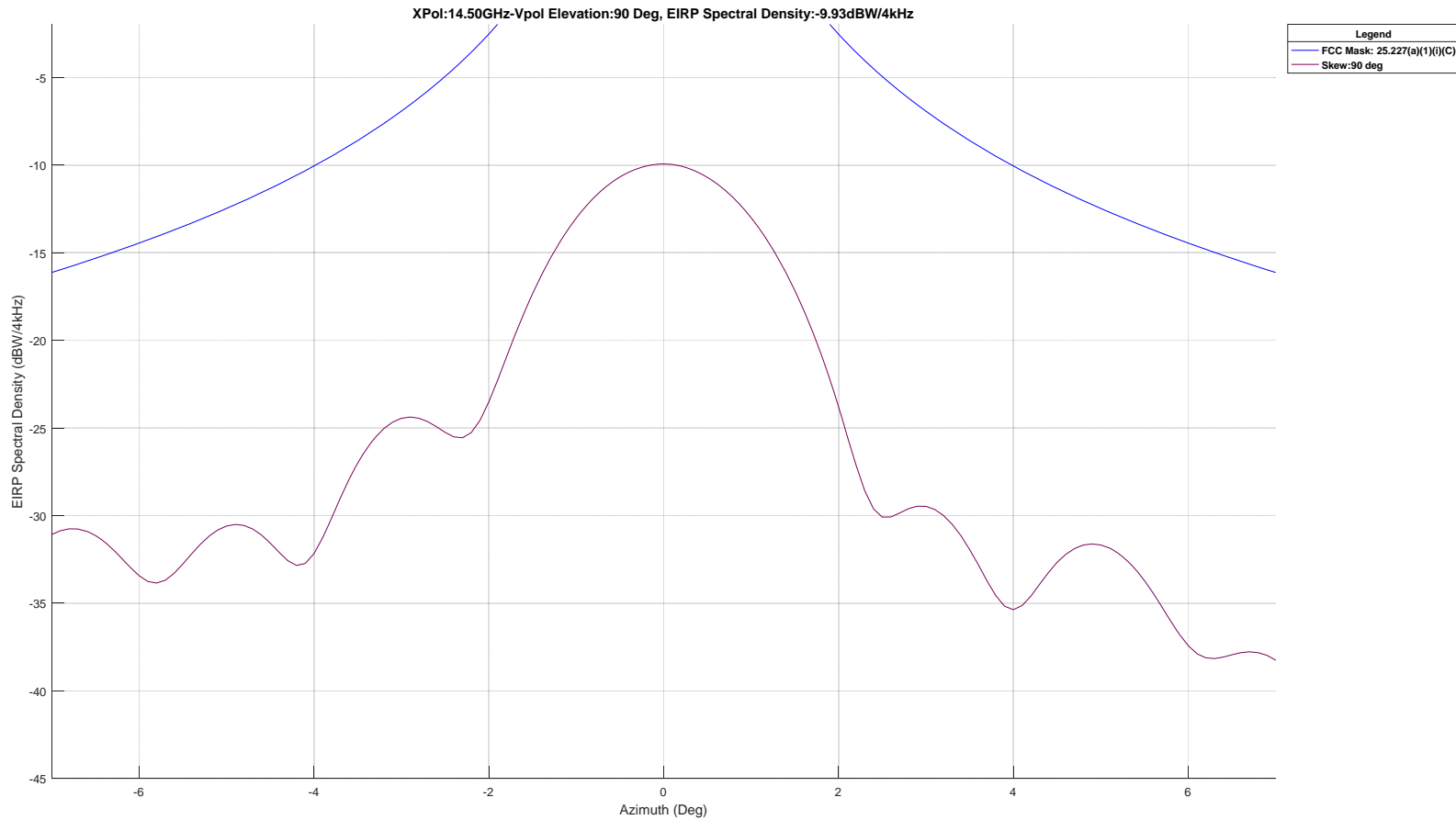


# XPOL-TANGENT TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-9.92DBW/4KHZ





# XPOL-TANGENT TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-9.93DBW/4KHZ



GSAA EIRP SPECTRAL DENSITY  
PLOTS – PERPENDICULAR PLANE  
TO GSO CROSS POL WITH  
25.227(A)(1)(I)(C) MASK



# DESCRIPTION

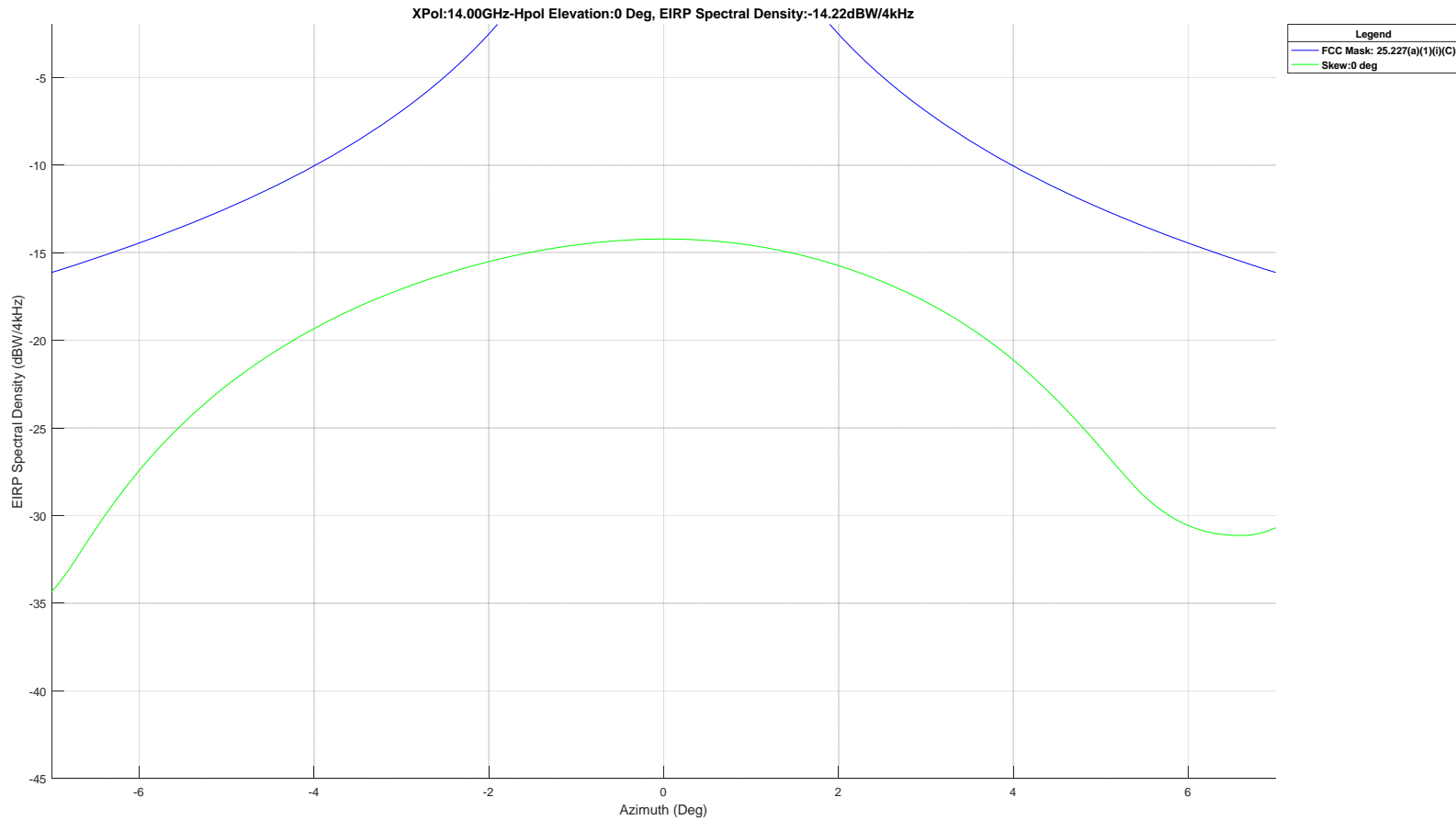
- EIRP Spectral Density plots are at 14.00 GHz, 14.25 GHz and 14.50 GHz for both vertical and horizontal polarization for the following Skew and Elevation Angles (in **BOLD**) as it is mapped to the maximum EIRP Spectral Density in dBW/4kHz in the table on the next page:

# DESCRIPTION

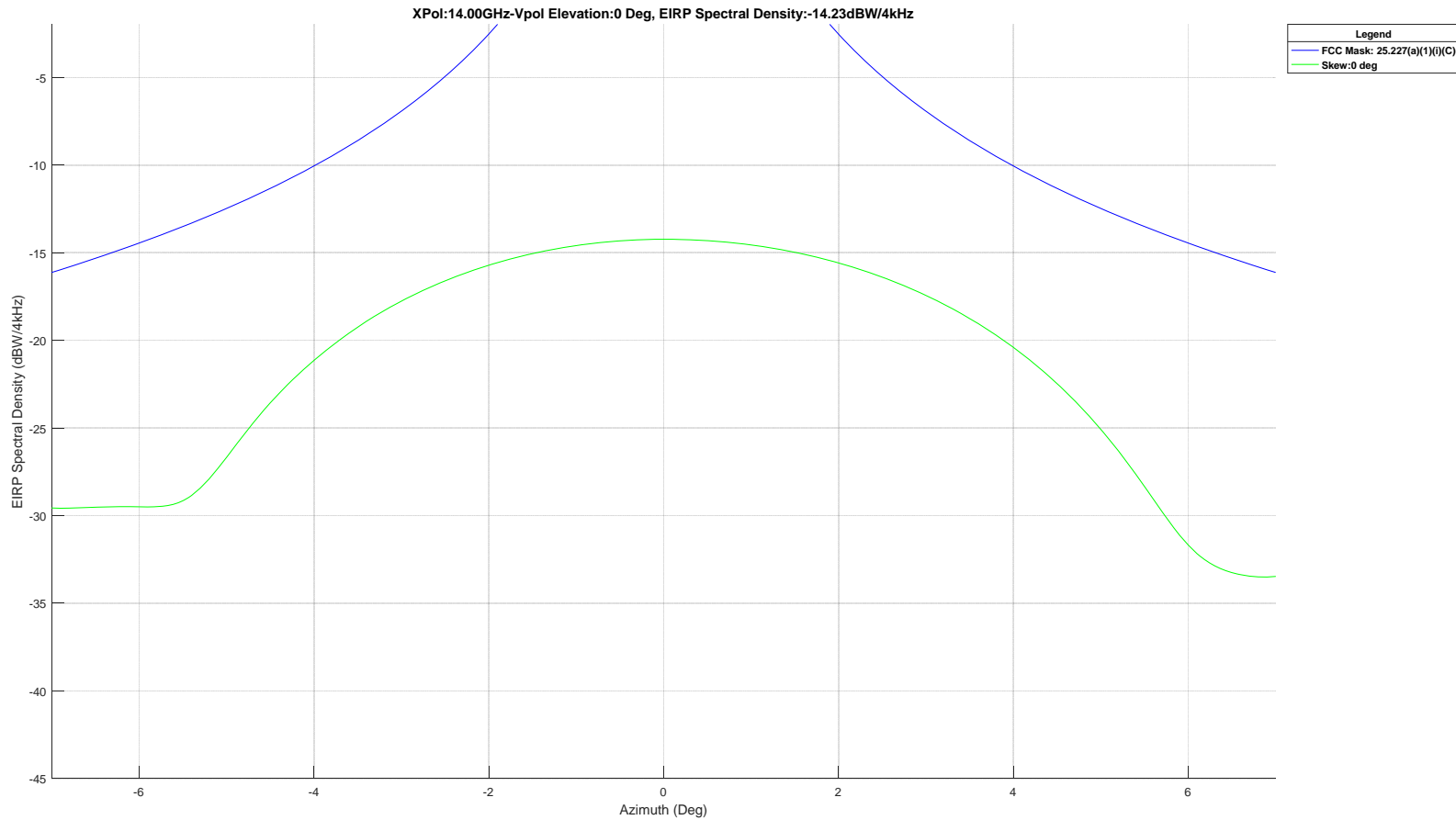
Perpendicular Plane to GSO Cross Pol ESD Plots as they comply to FCC mask 25.227(a)(1)(i)(C)

GSA MAXIMUM EIRP SPECTRAL DENSITY (dBW/4kHz)																			
Elevation(deg)\Skew(deg)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98	-1.59	-4.77	-6.48
5	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98	-1.59	-4.77	-6.48
10	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98	-1.59	-4.77	-6.48
15	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-6.98	-5.21	-4.22	-3.97	-2.80	-1.93	-2.47	-2.87	-2.22	-1.66	-1.00	-3.04	-5.91
20	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-6.98	-5.21	-4.22	-3.97	-2.80	-1.93	-2.47	-2.87	-2.22	-1.66	-1.00	-3.04	-5.91
25	-13.71	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98	-1.59	-4.77
30	-13.71	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98	-1.59	-4.77
35	-13.71	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-6.98	-5.21	-4.22	-3.97	-2.80	-1.93	-2.47	-2.87	-2.22	-1.66	-1.00	-3.04
40	-13.71	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-6.98	-5.21	-4.22	-3.97	-2.80	-1.93	-2.47	-2.87	-2.22	-1.66	-1.00	-3.04
45	-13.71	-13.71	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98	-1.59
50	-13.71	-13.71	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-6.98	-5.21	-4.22	-3.97	-2.80	-1.93	-2.47	-2.87	-2.22	-1.66	-1.00
55	-13.71	-13.71	-13.71	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08	-2.01	-0.98
60	-13.71	-13.71	-13.71	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-6.98	-5.21	-4.22	-3.97	-2.80	-1.93	-2.47	-2.87	-2.22	-1.66
65	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54	-3.29	-2.40	-1.79	-2.74	-2.08
70	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.14	-12.25	-10.86	-9.04	-8.70	-5.21	-4.22	-4.54	-2.80	-1.93	-2.47
75	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.47	-12.57	-11.48	-10.18	-8.70	-6.04	-4.88	-4.54
80	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71
85	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71
90	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71	-13.71

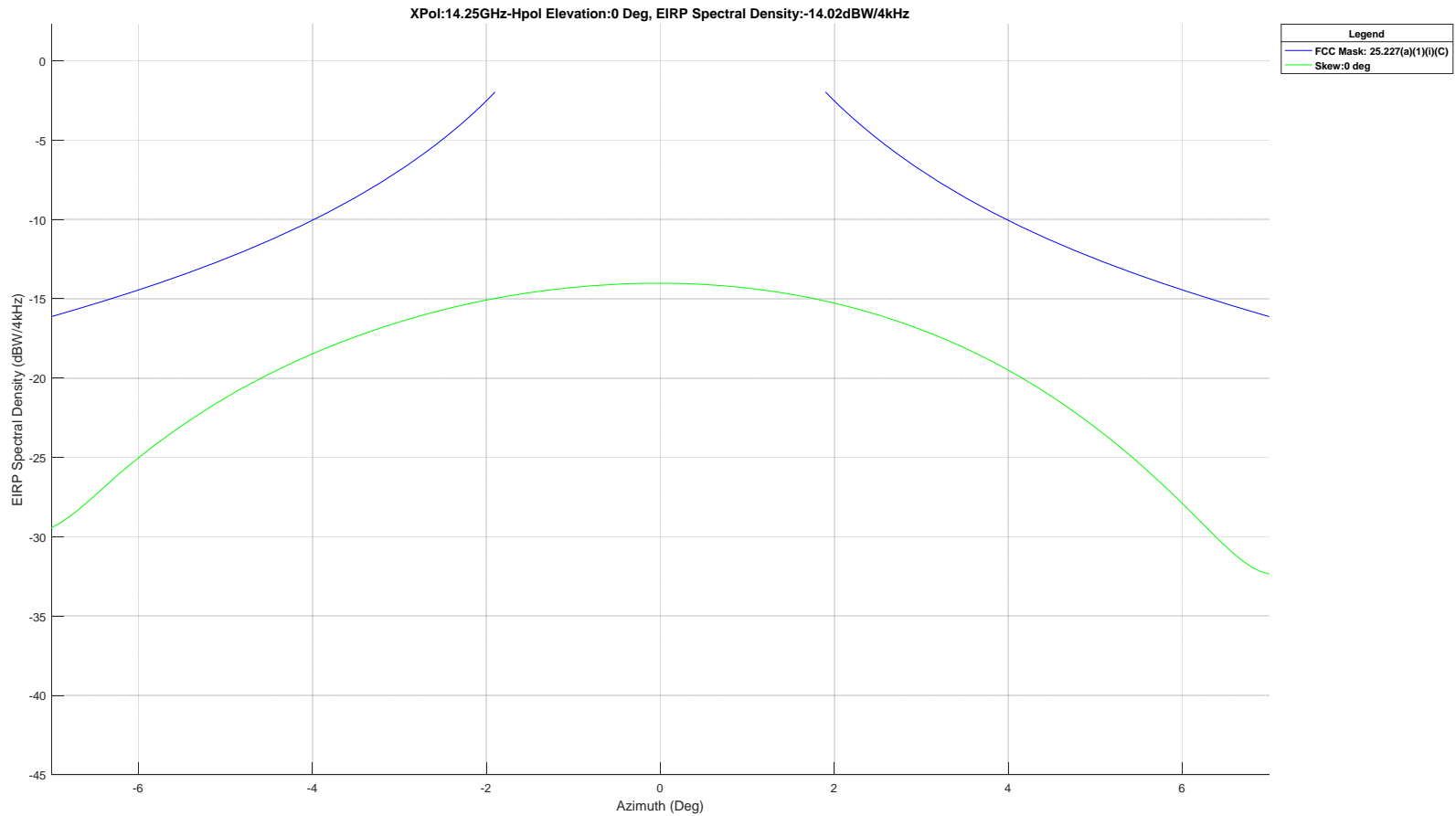
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-14.22DBW/4KHZ



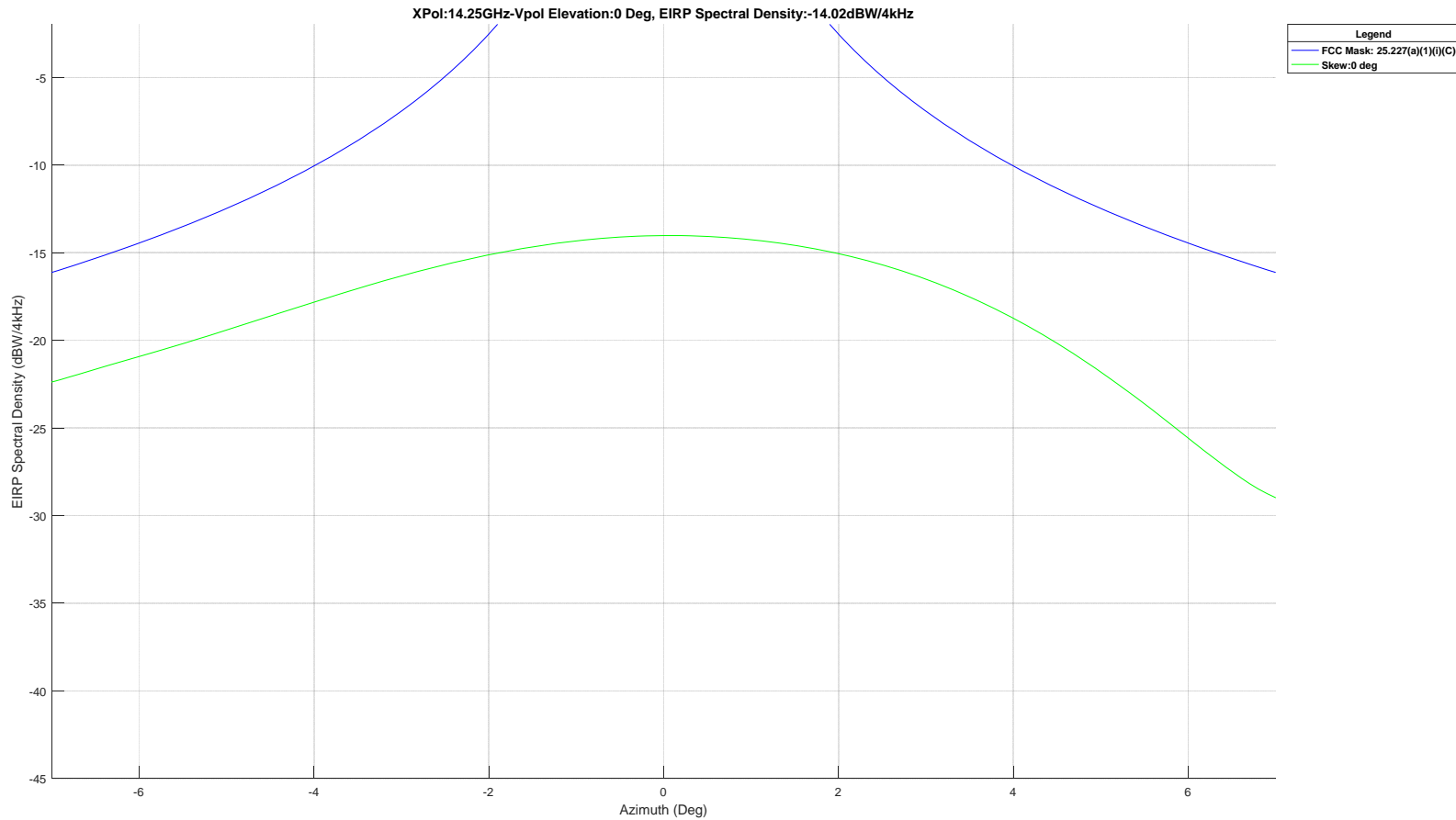
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-14.23DBW/4KHZ



# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-14.02DBW/4KHZ

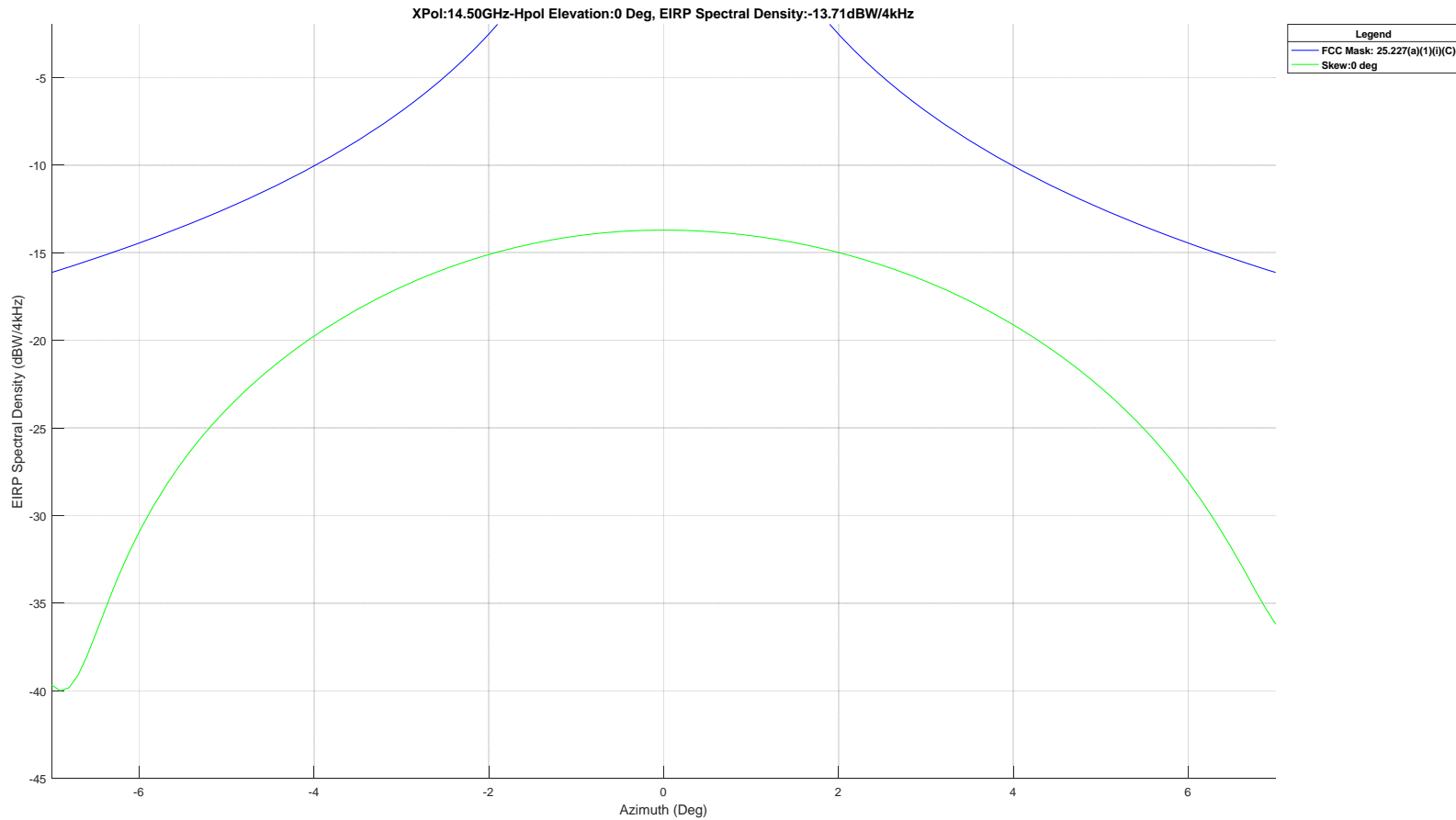


# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-14.02DBW/4KHZ

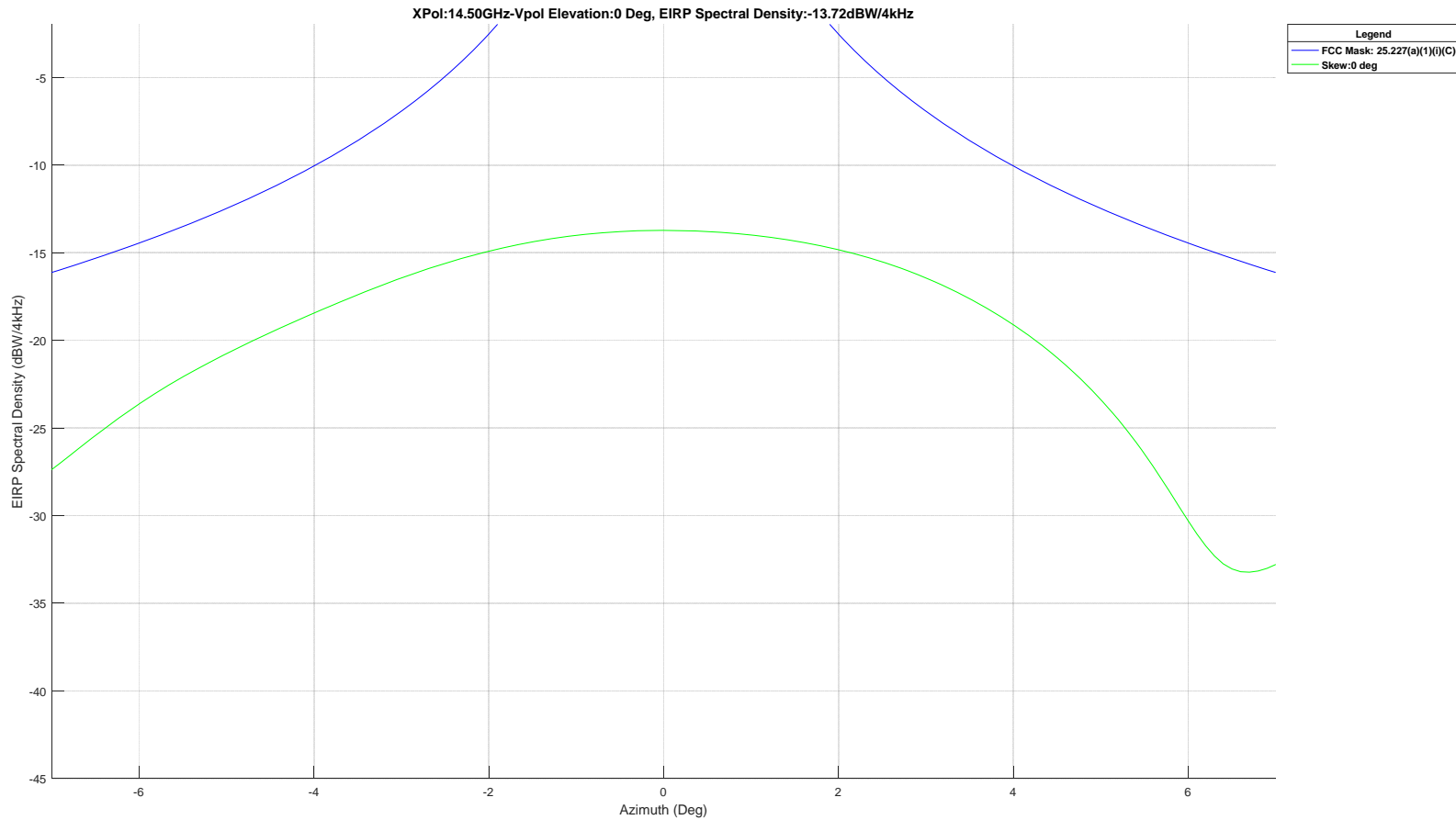




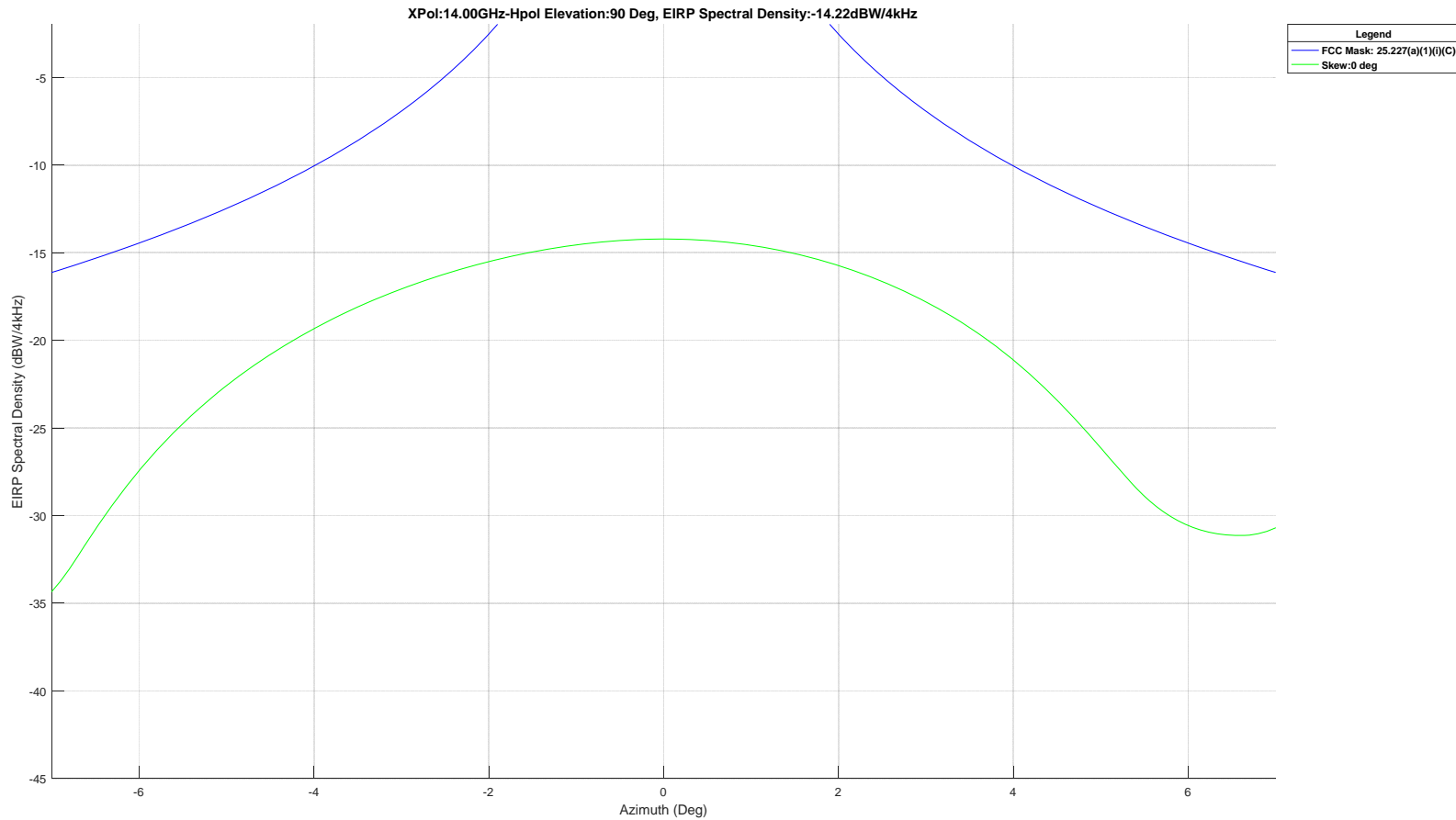
# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-13.71DBW/4KHZ



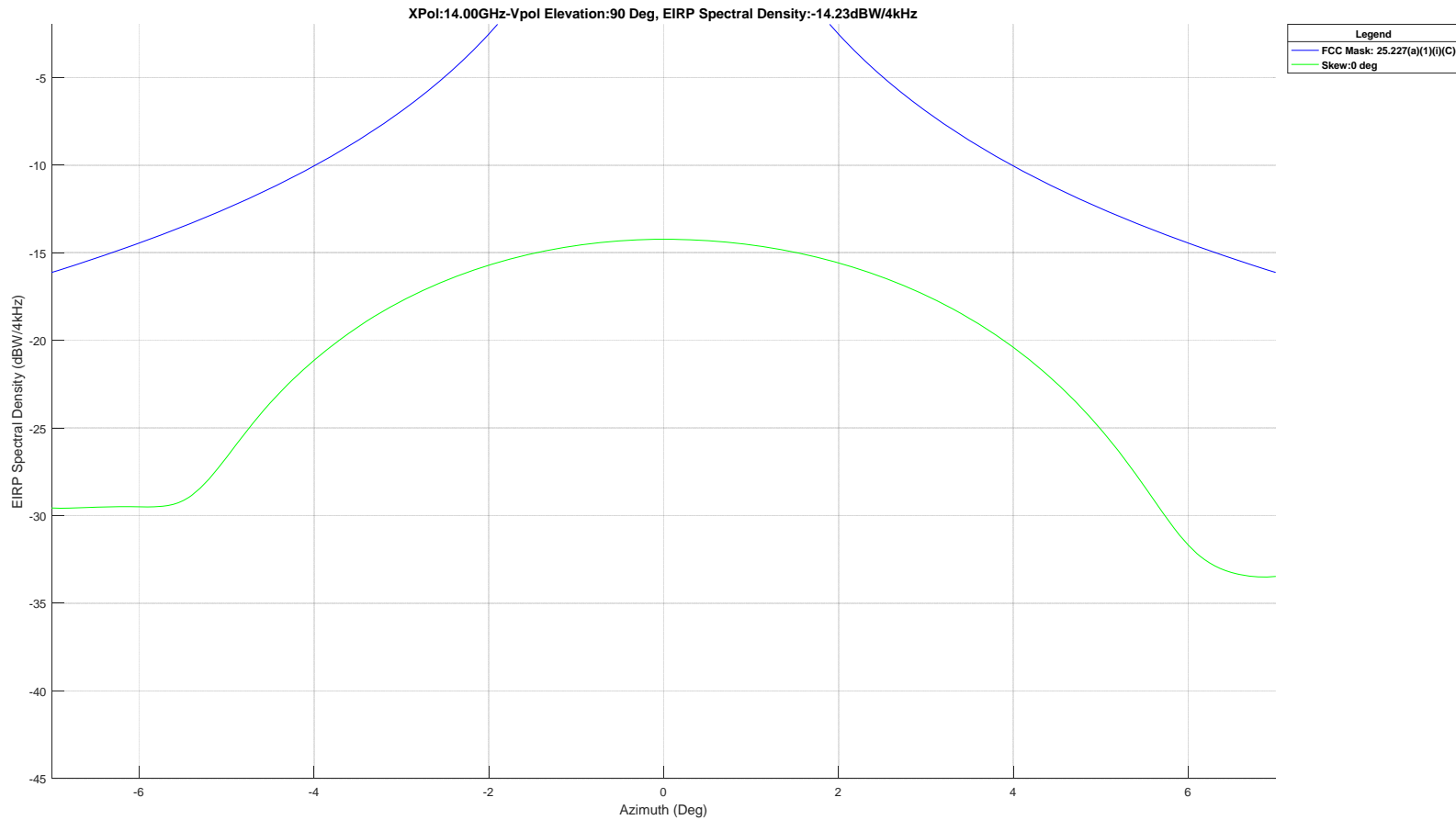
# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-13.72DBW/4KHZ



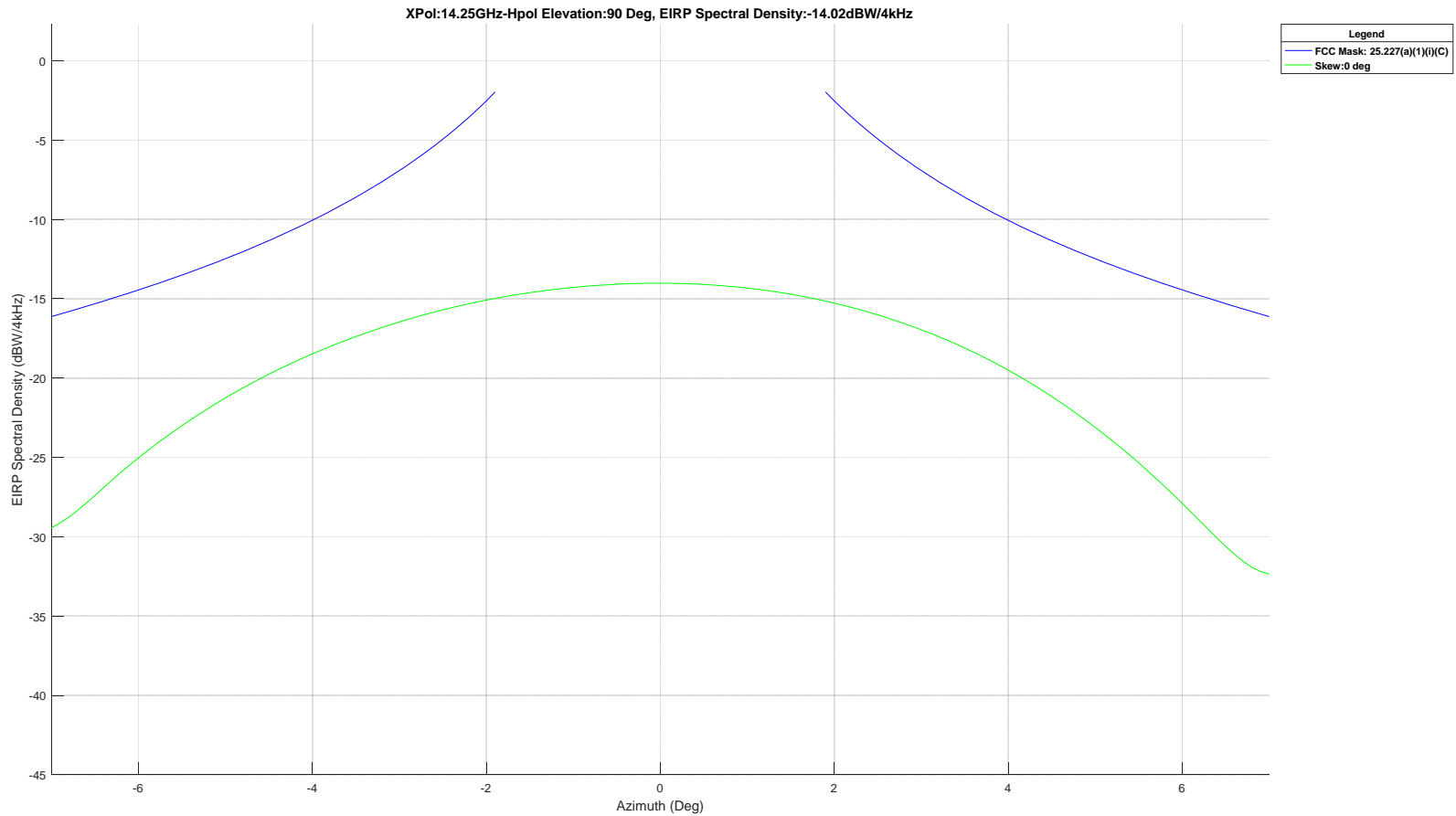
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.22DBW/4KHZ



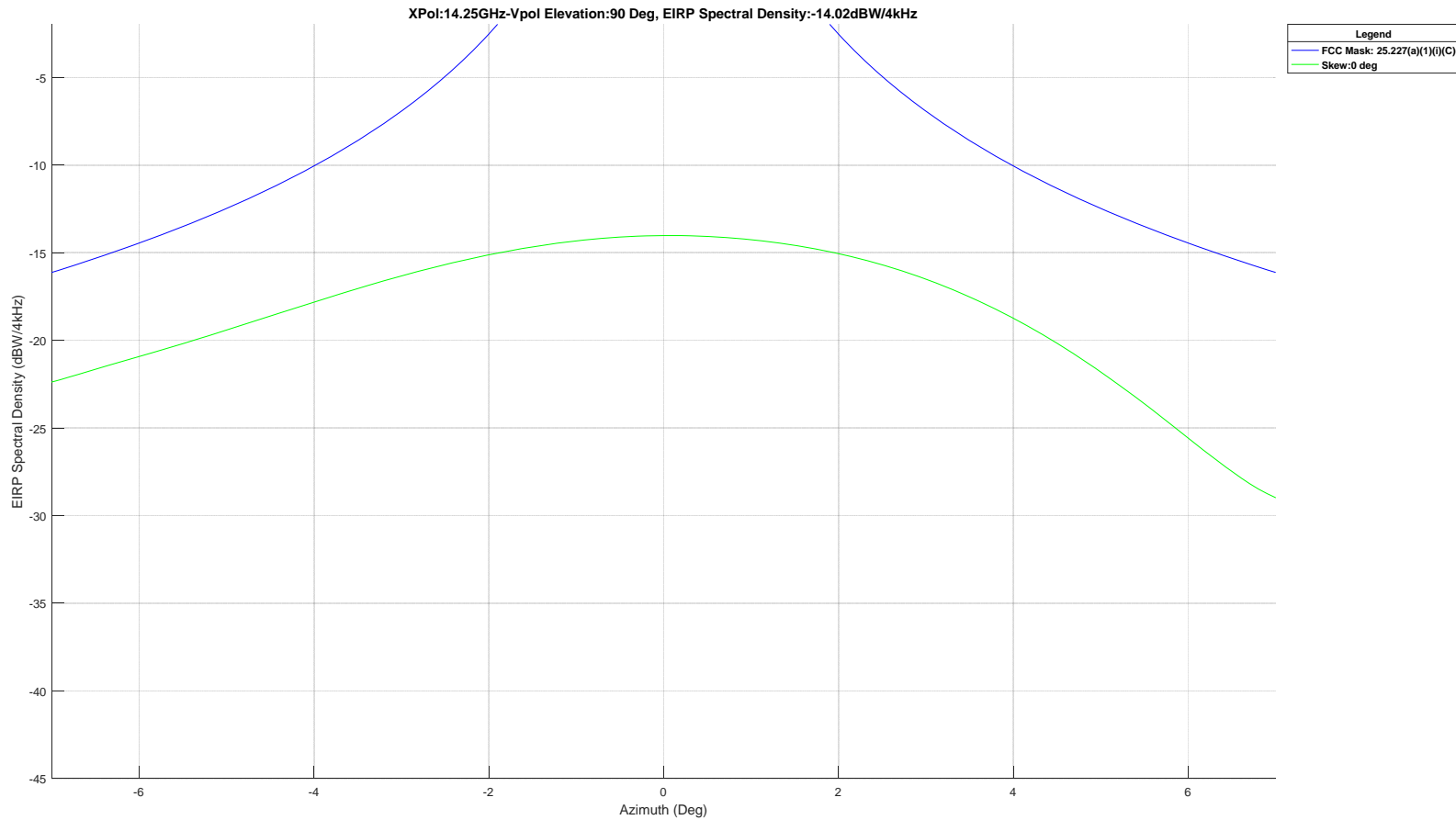
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.23DBW/4KHZ



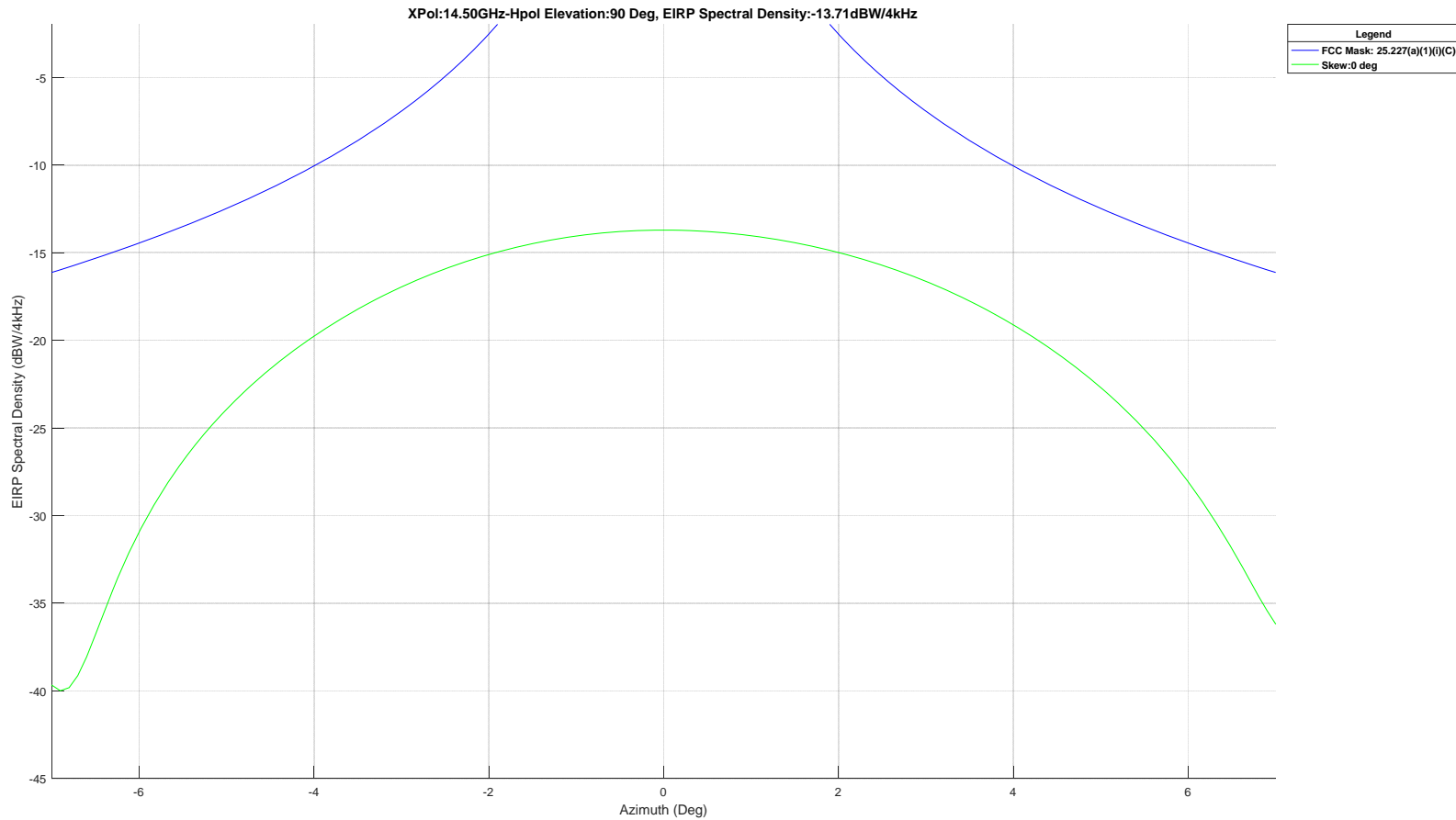
# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.02DBW/4KHZ



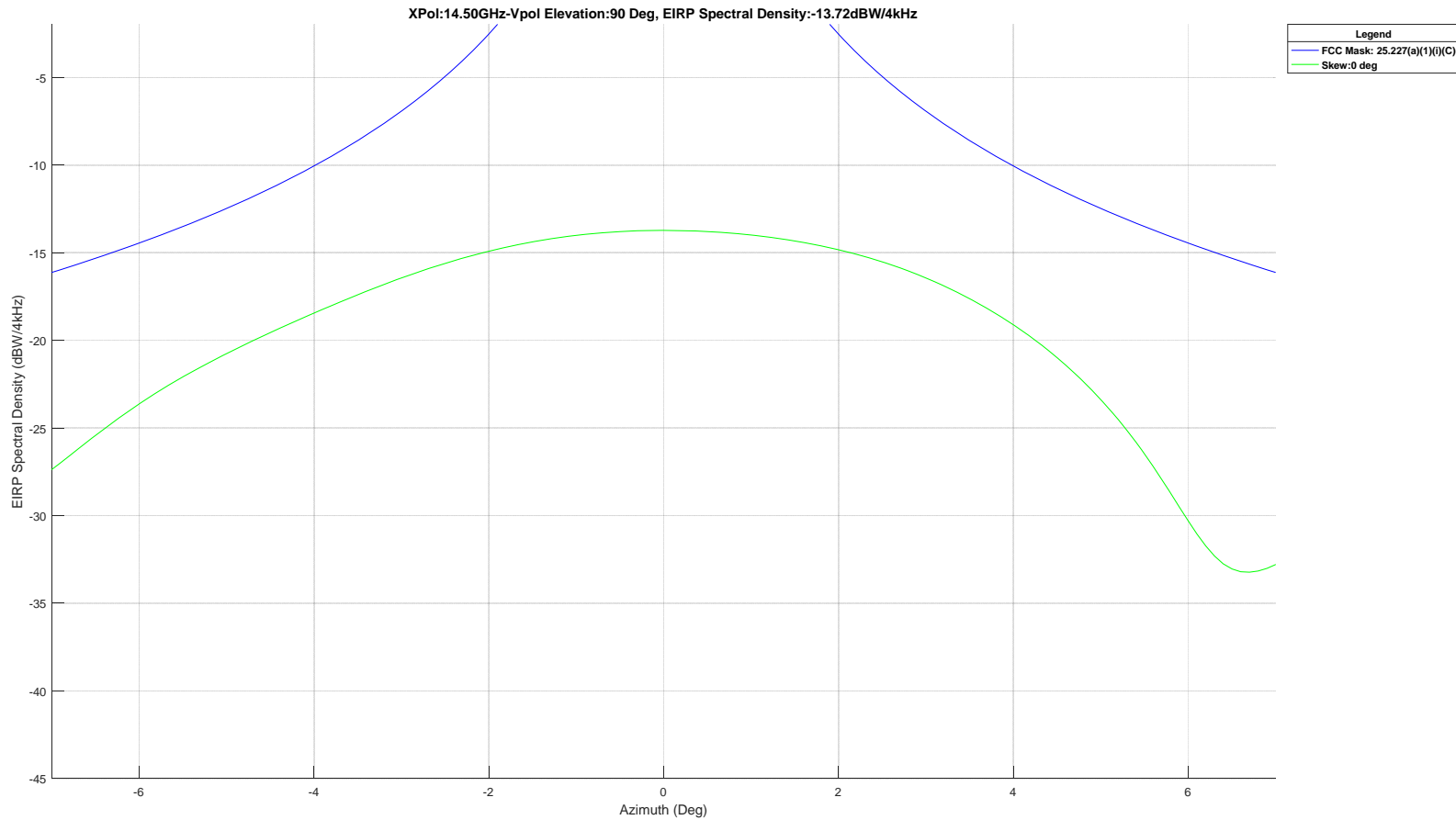
# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.02DBW/4KHZ



# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-13.71DBW/4KHZ

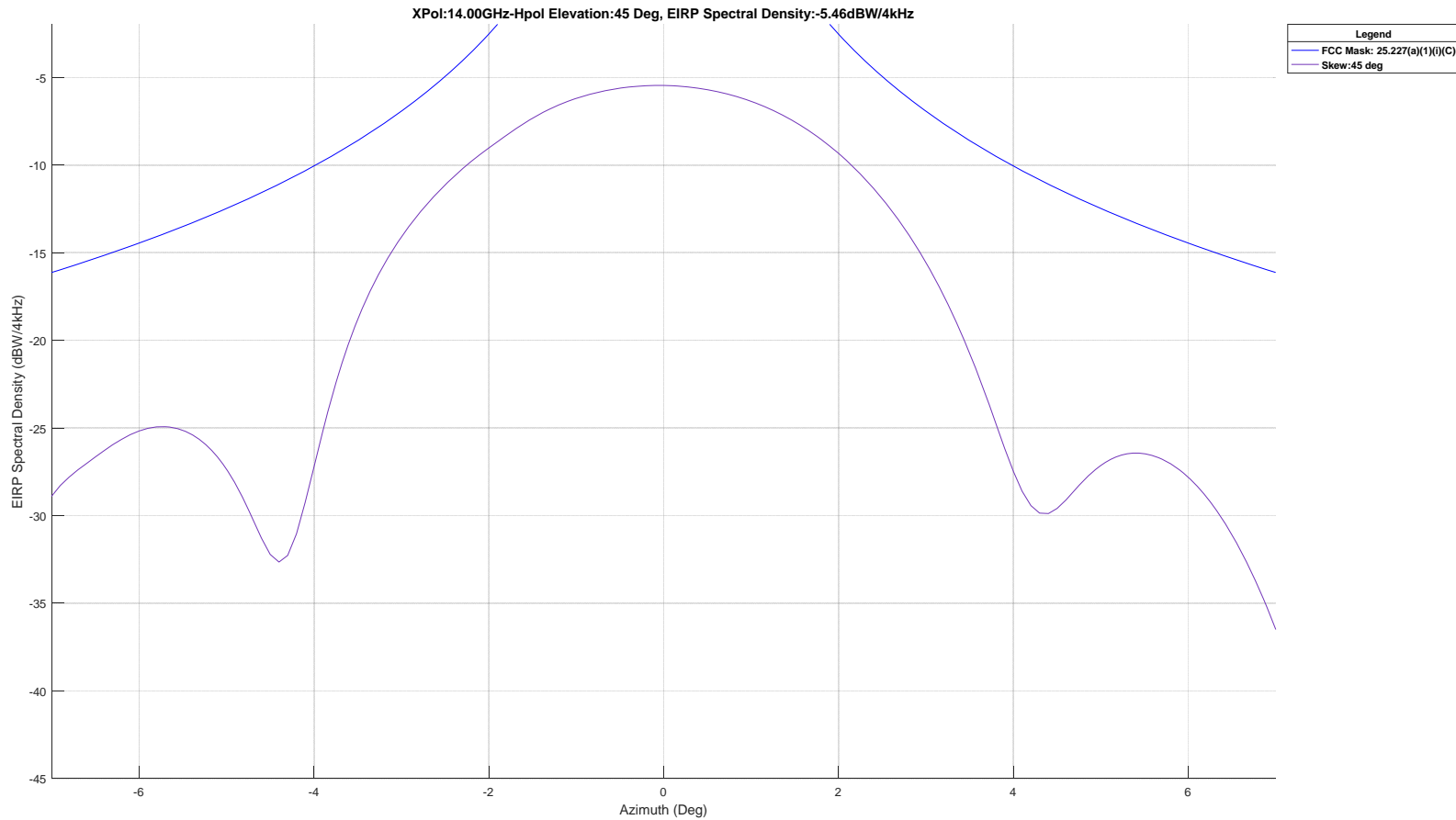


# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-13.72DBW/4KHZ

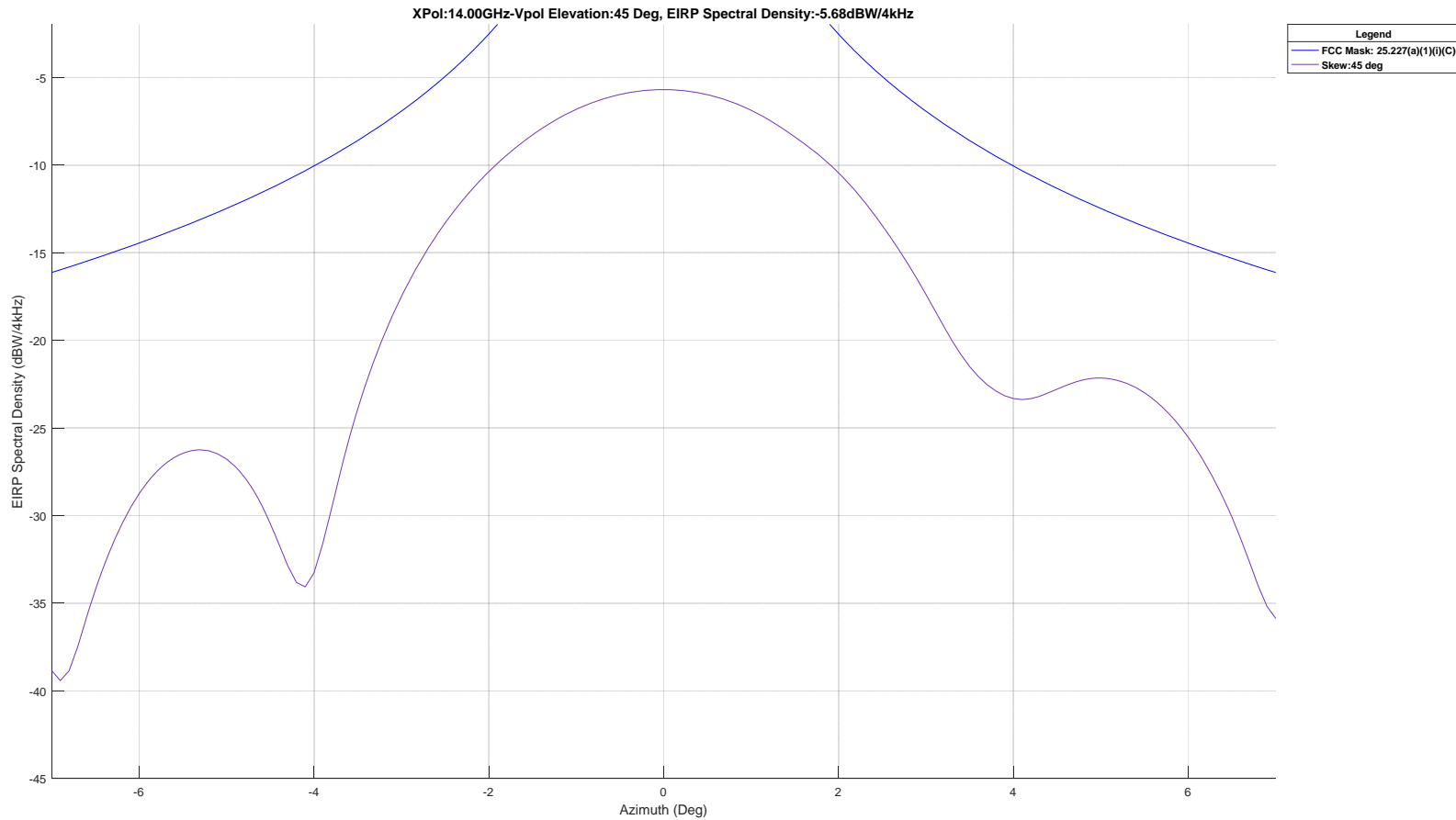




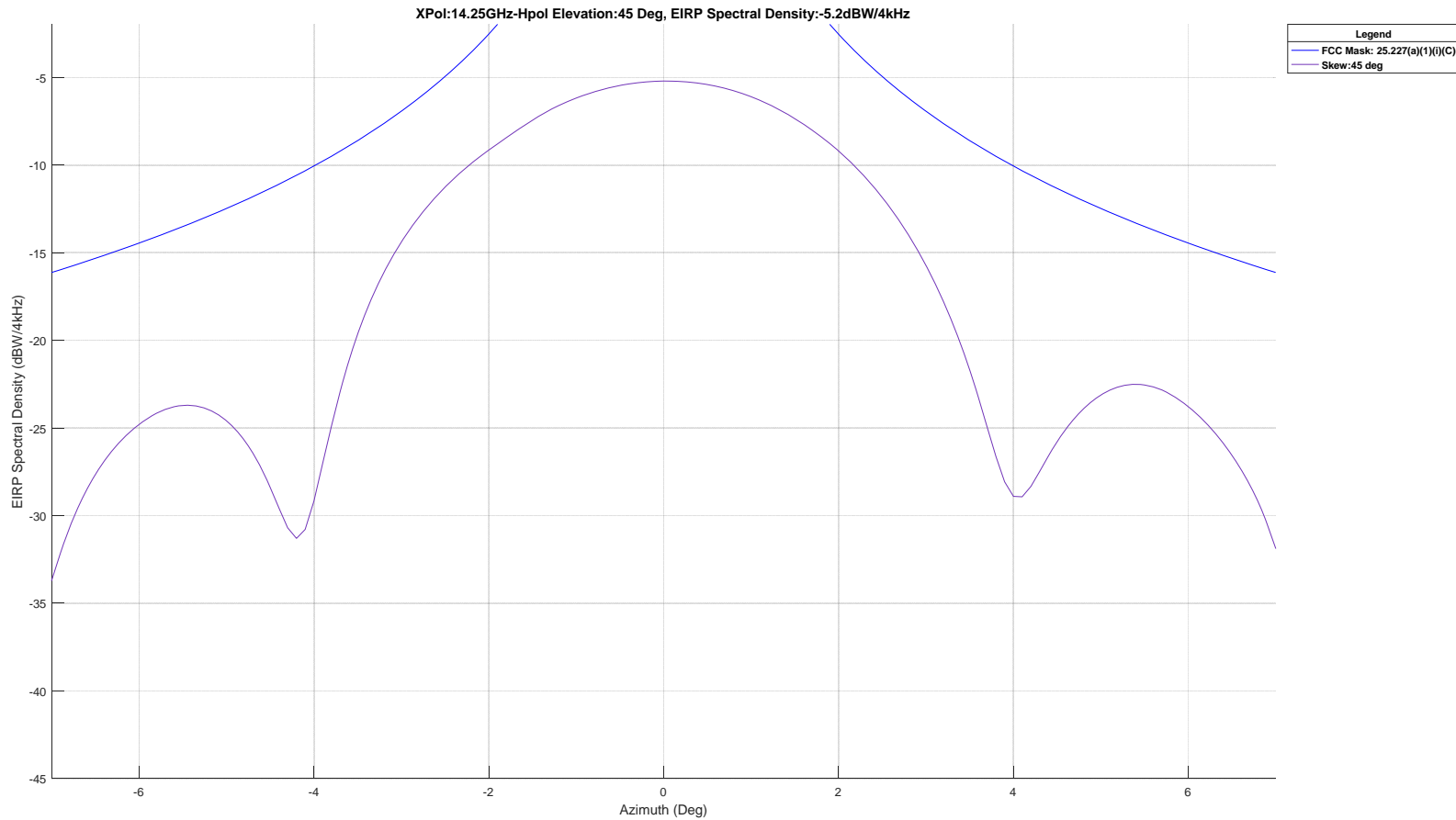
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-5.46DBW/4KHZ



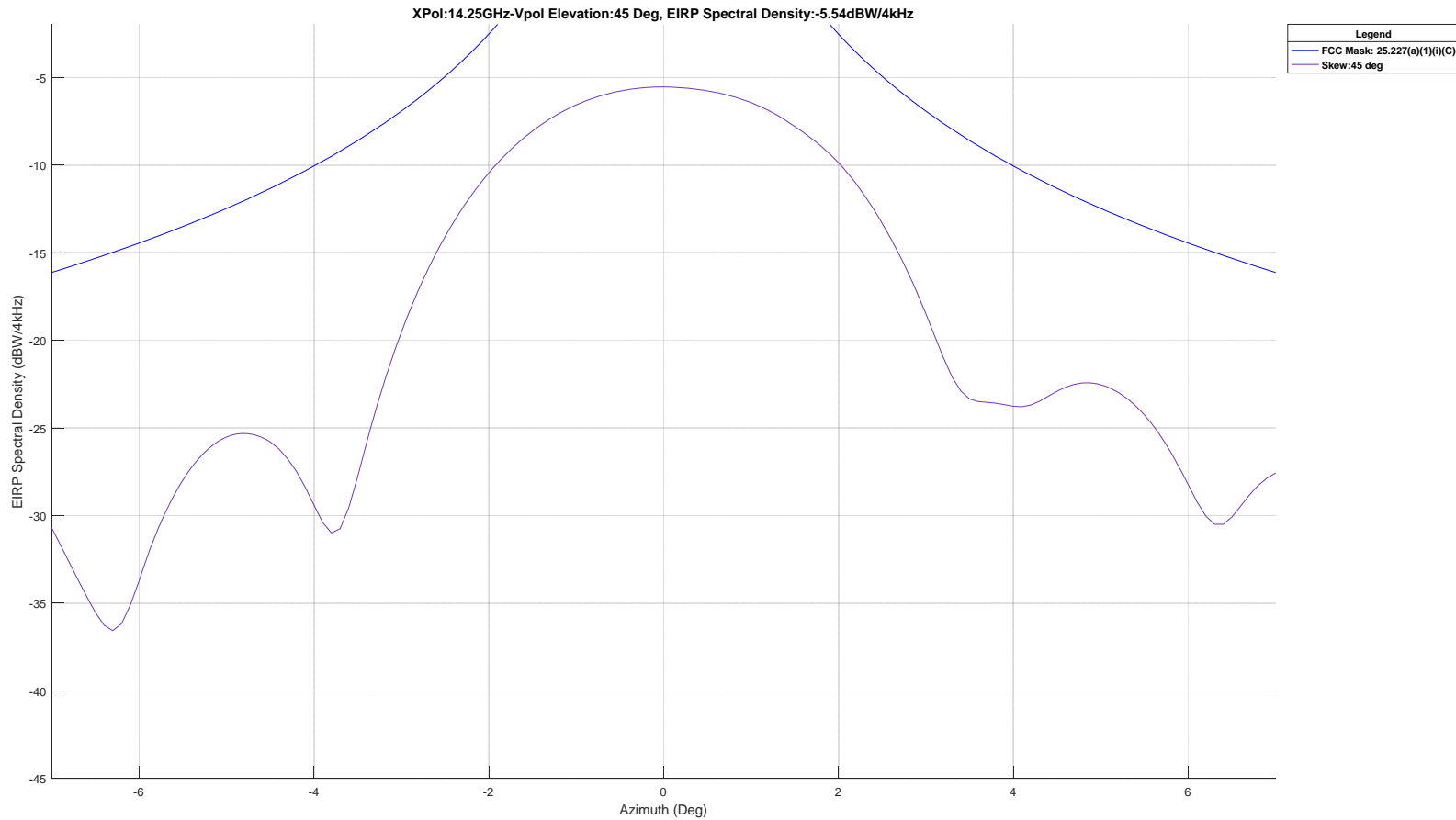
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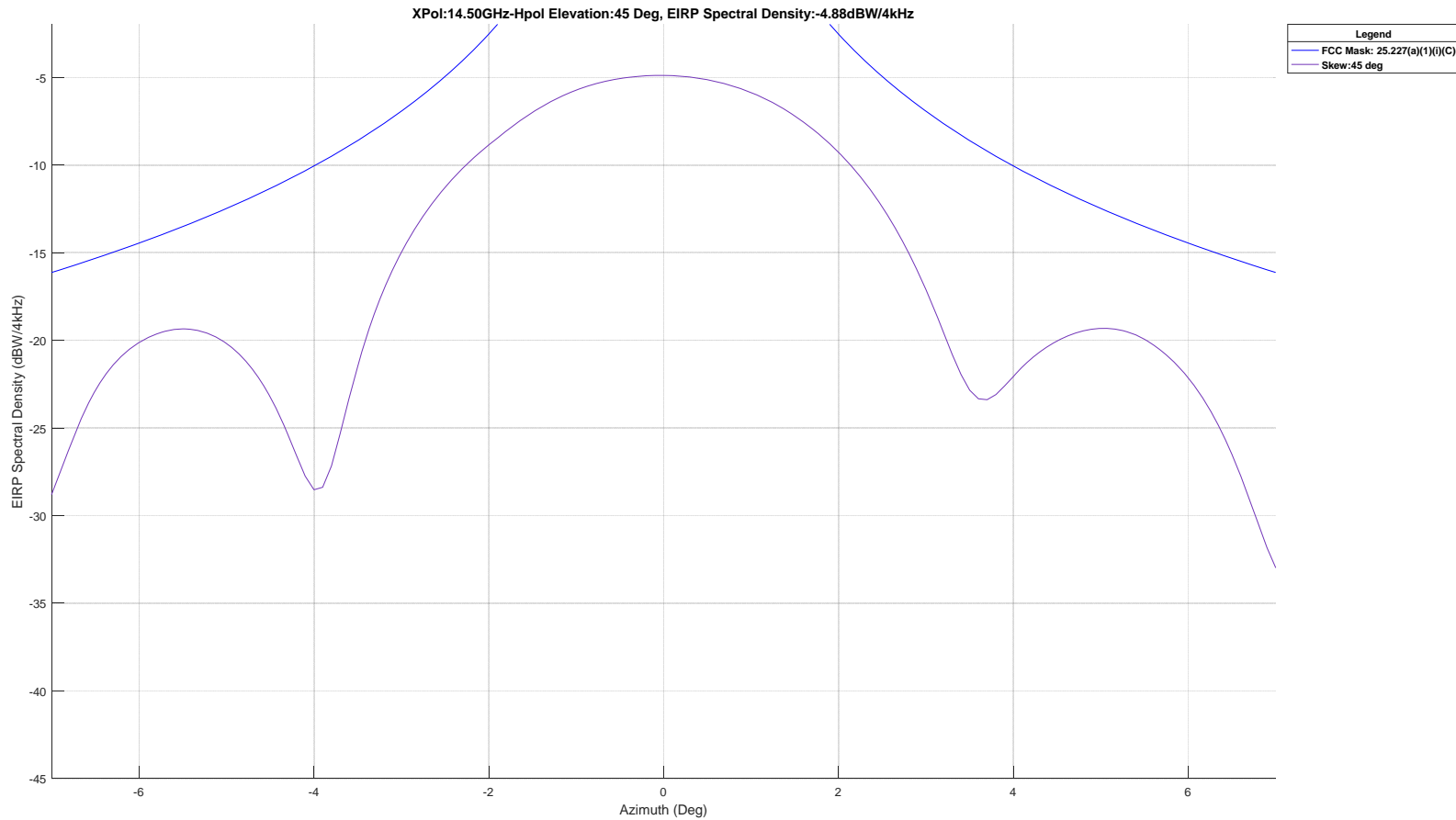
# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-5.2DBW/4KHZ



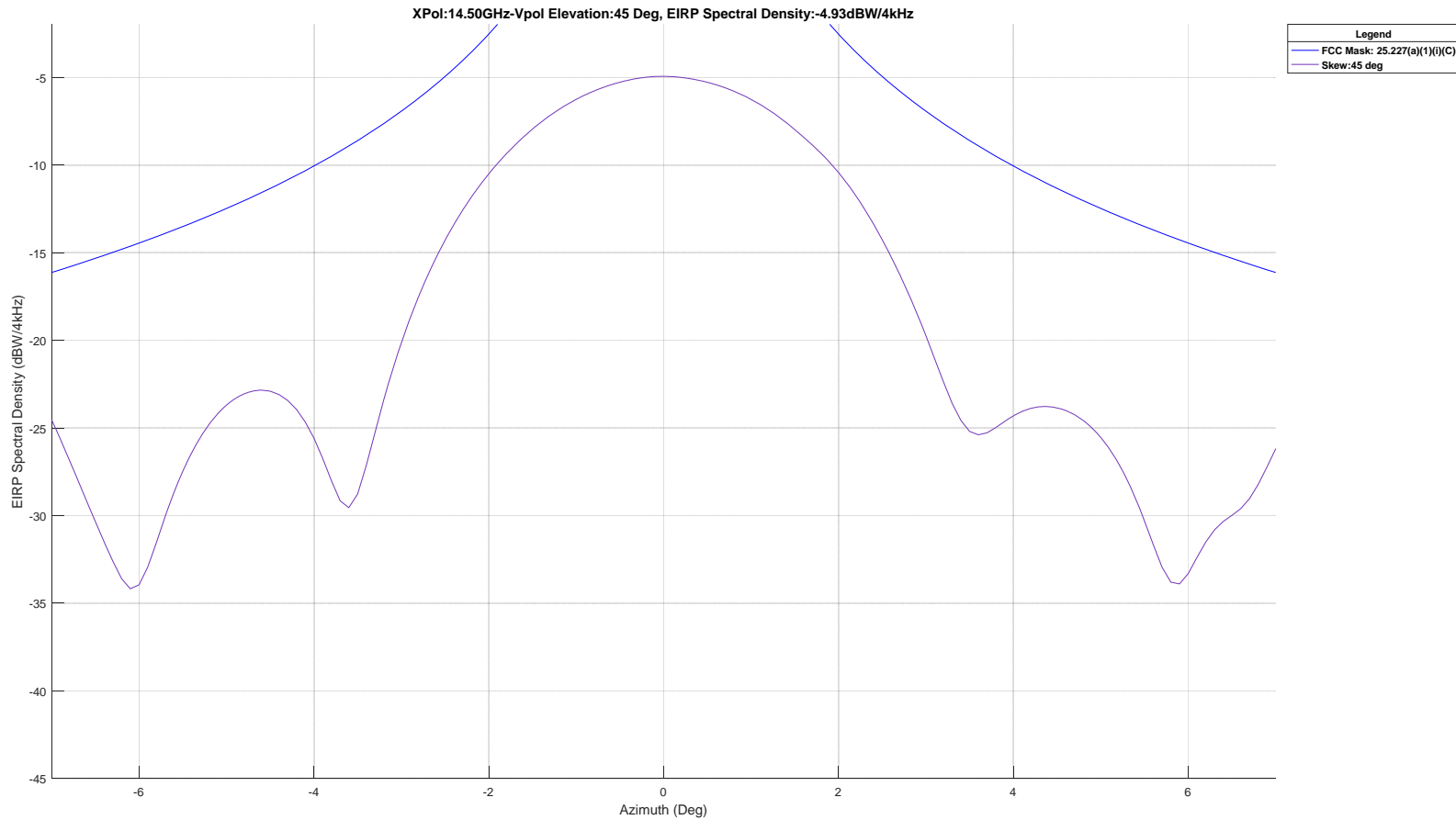
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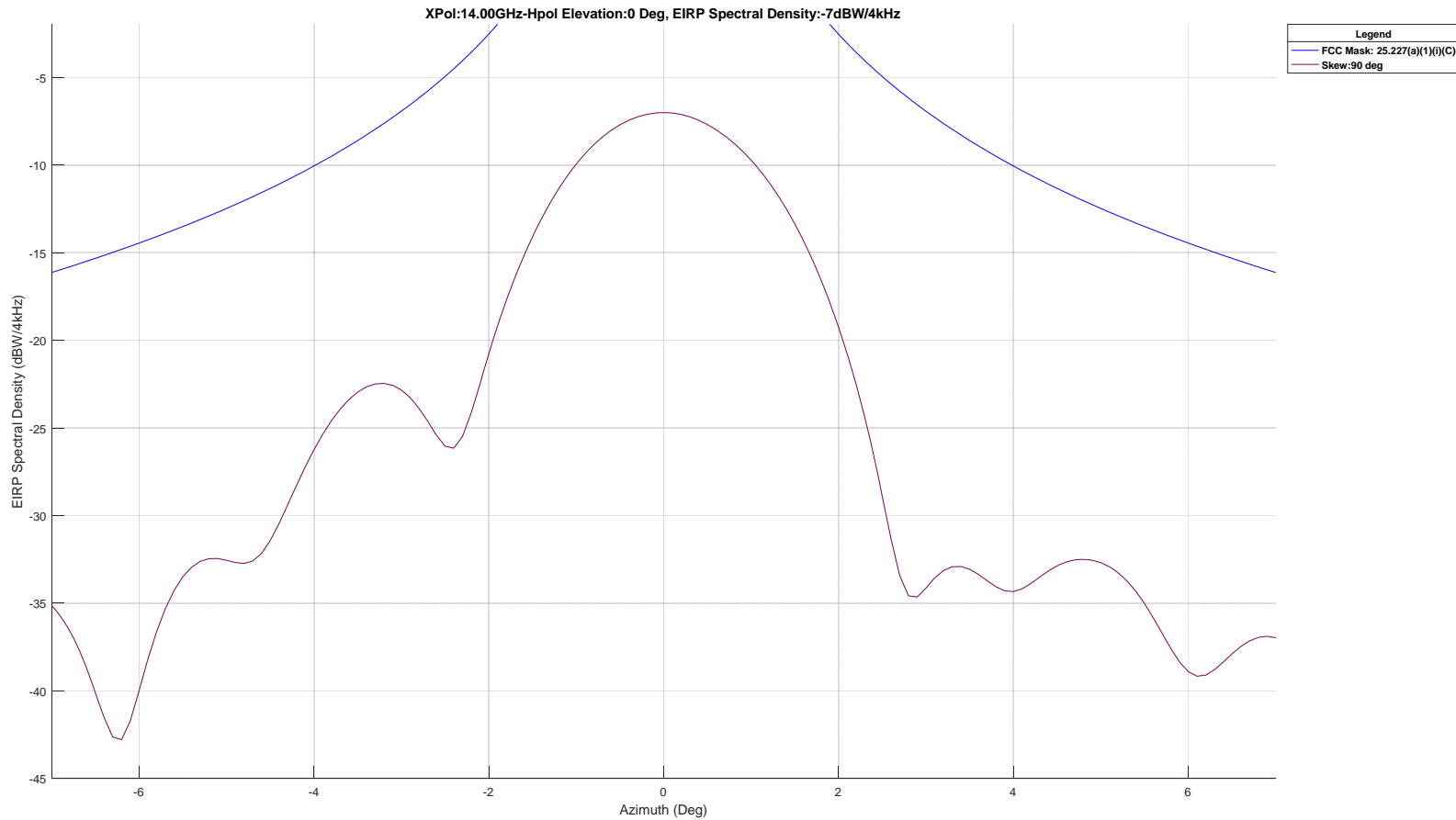
# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-4.88DBW/4KHZ



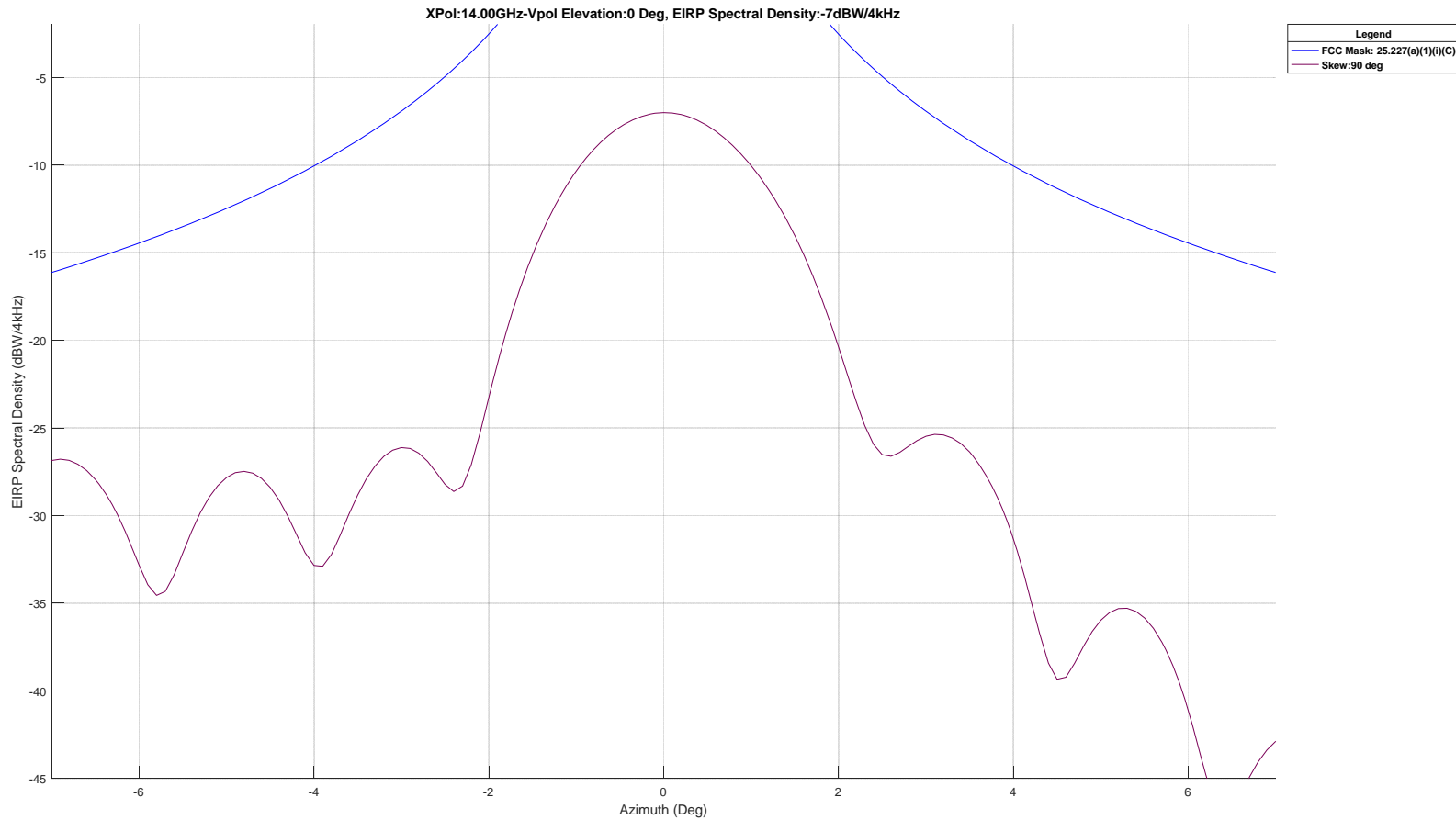
# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:45 DEG, EIRP SPECTRAL DENSITY:-4.93DBW/4KHZ



# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-7DBW/4KHZ

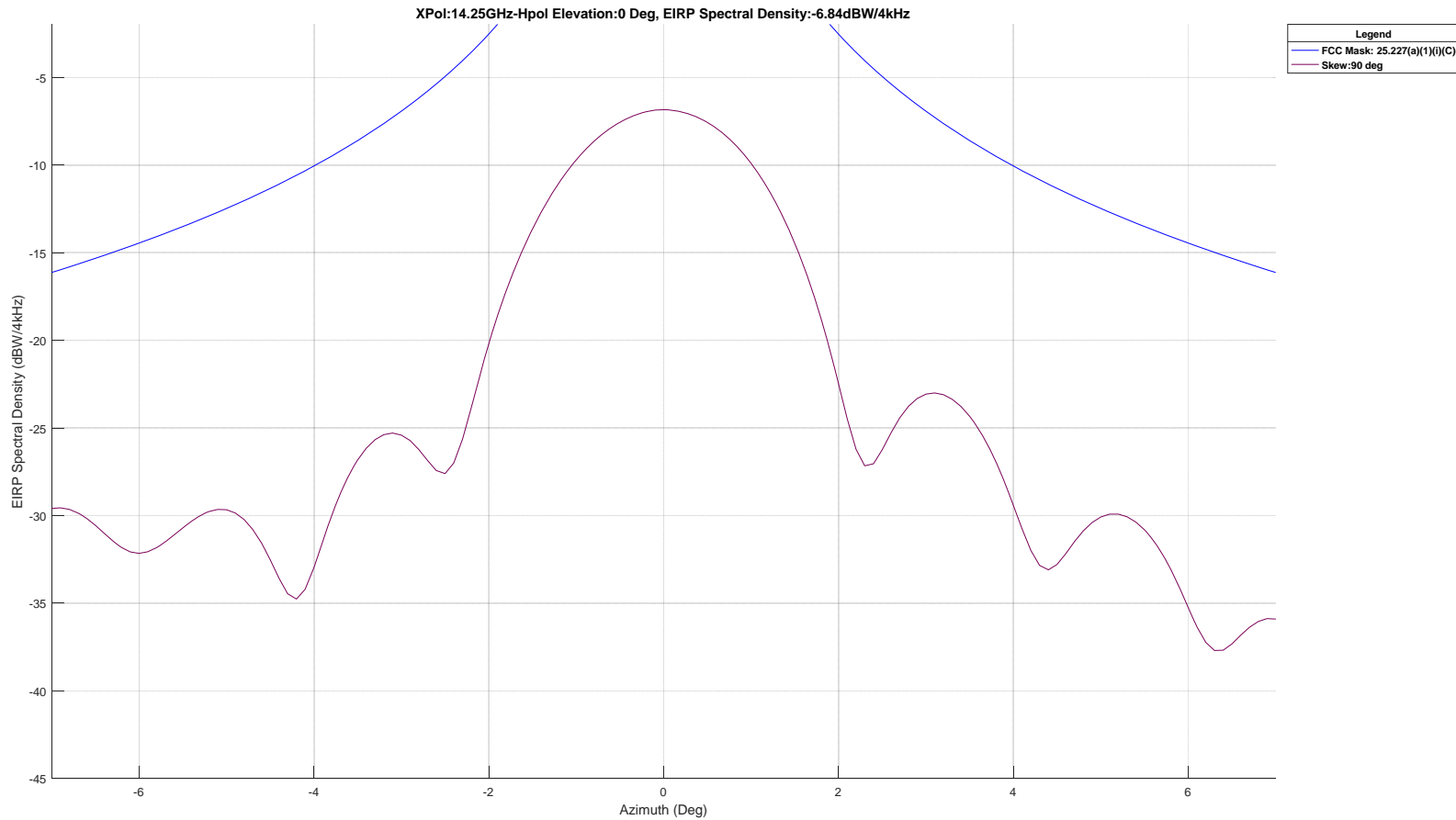


# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-7DBW/4KHZ

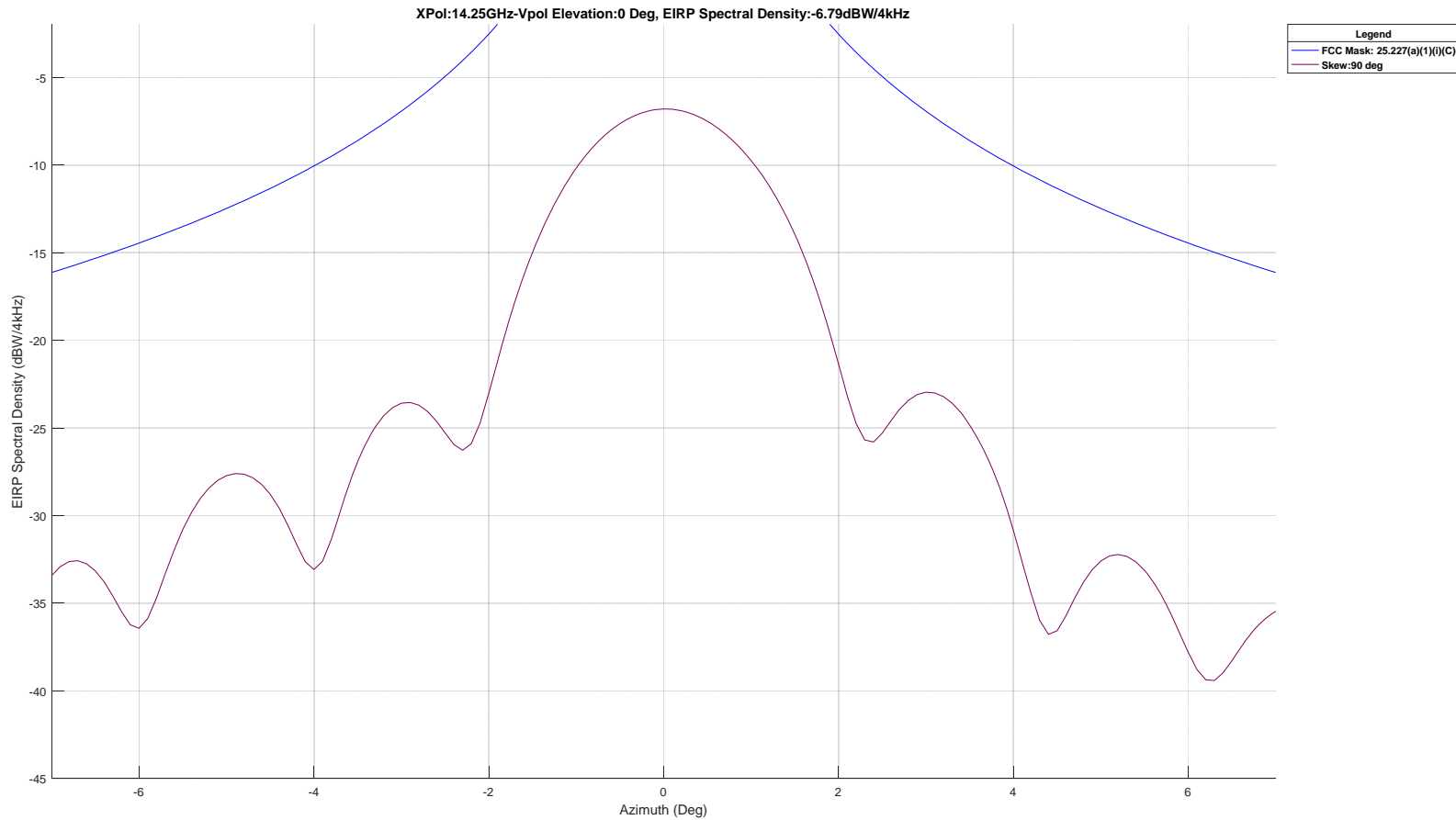




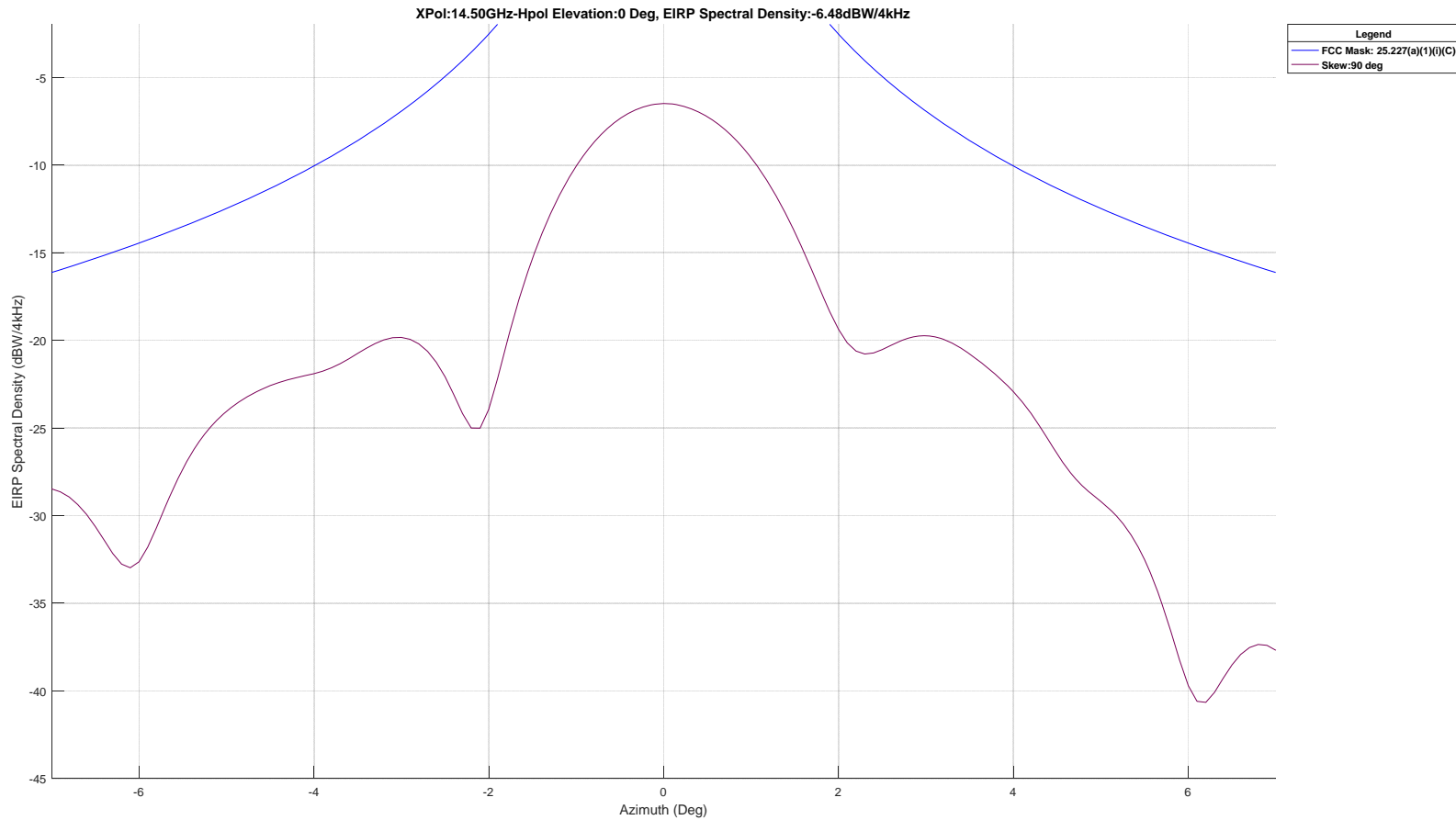
# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-6.84DBW/4KHZ



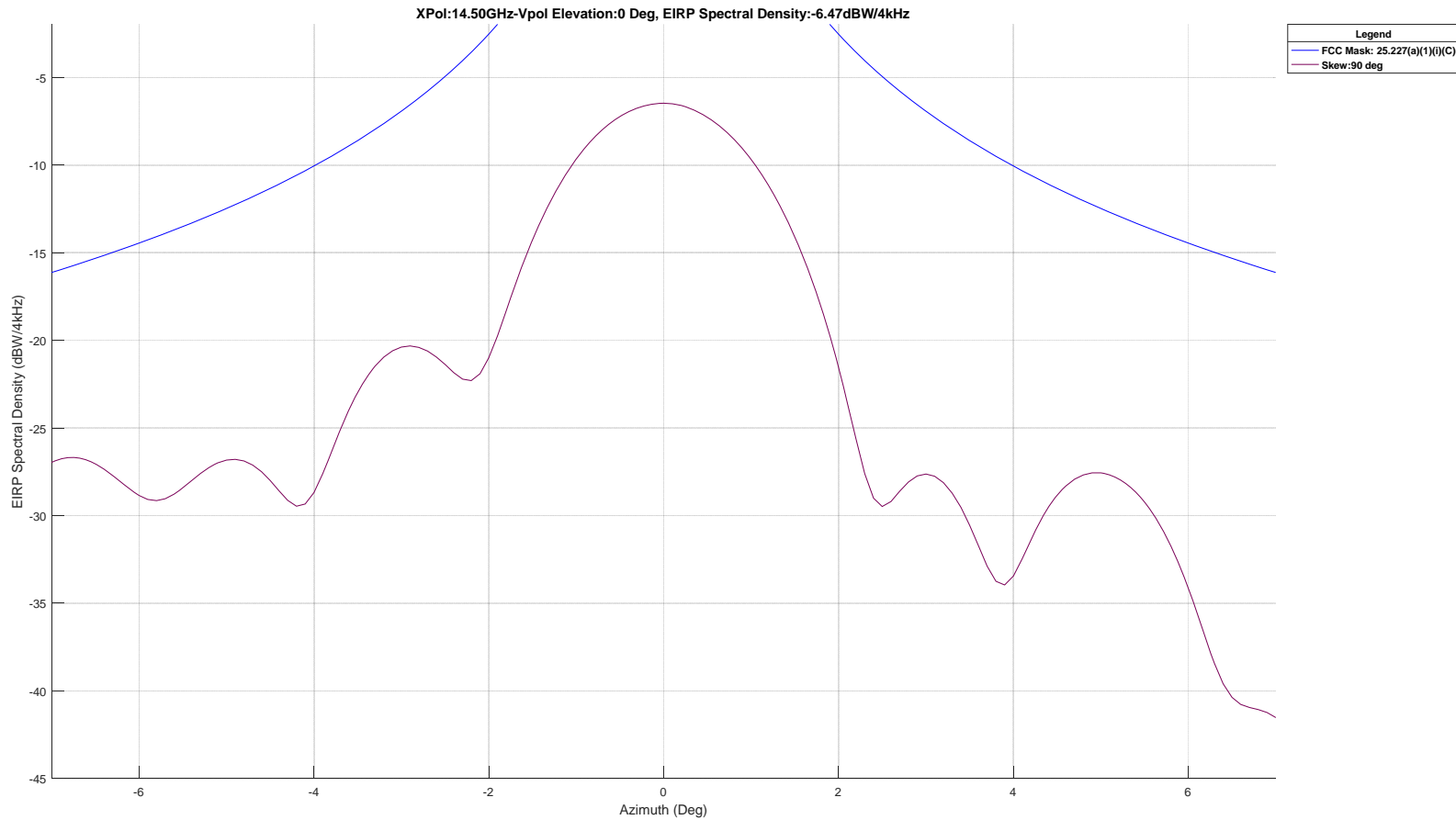
# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-6.79DBW/4KHZ



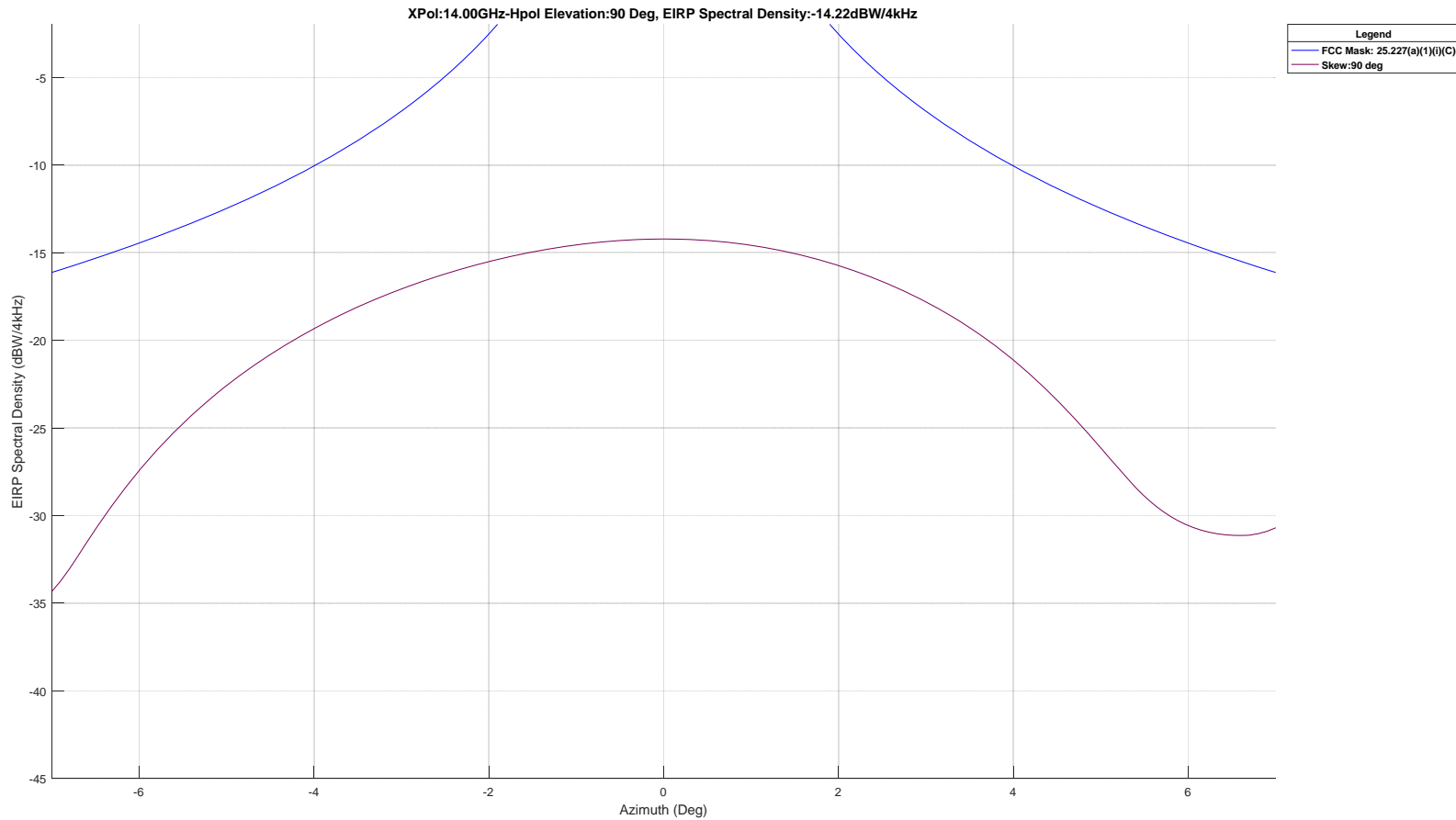
# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-6.48DBW/4KHZ



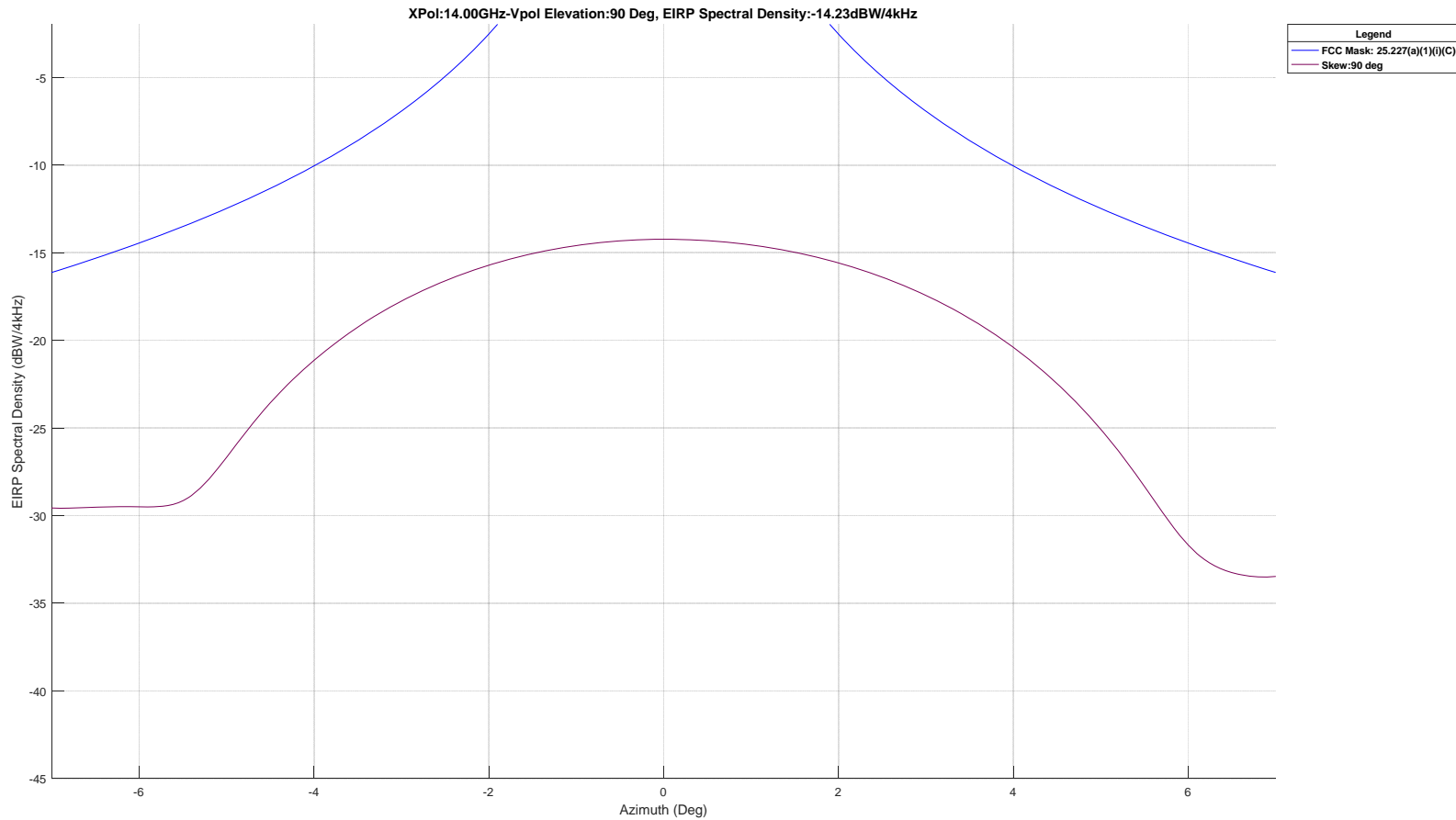
# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:0 DEG, EIRP SPECTRAL DENSITY:-6.47DBW/4KHZ



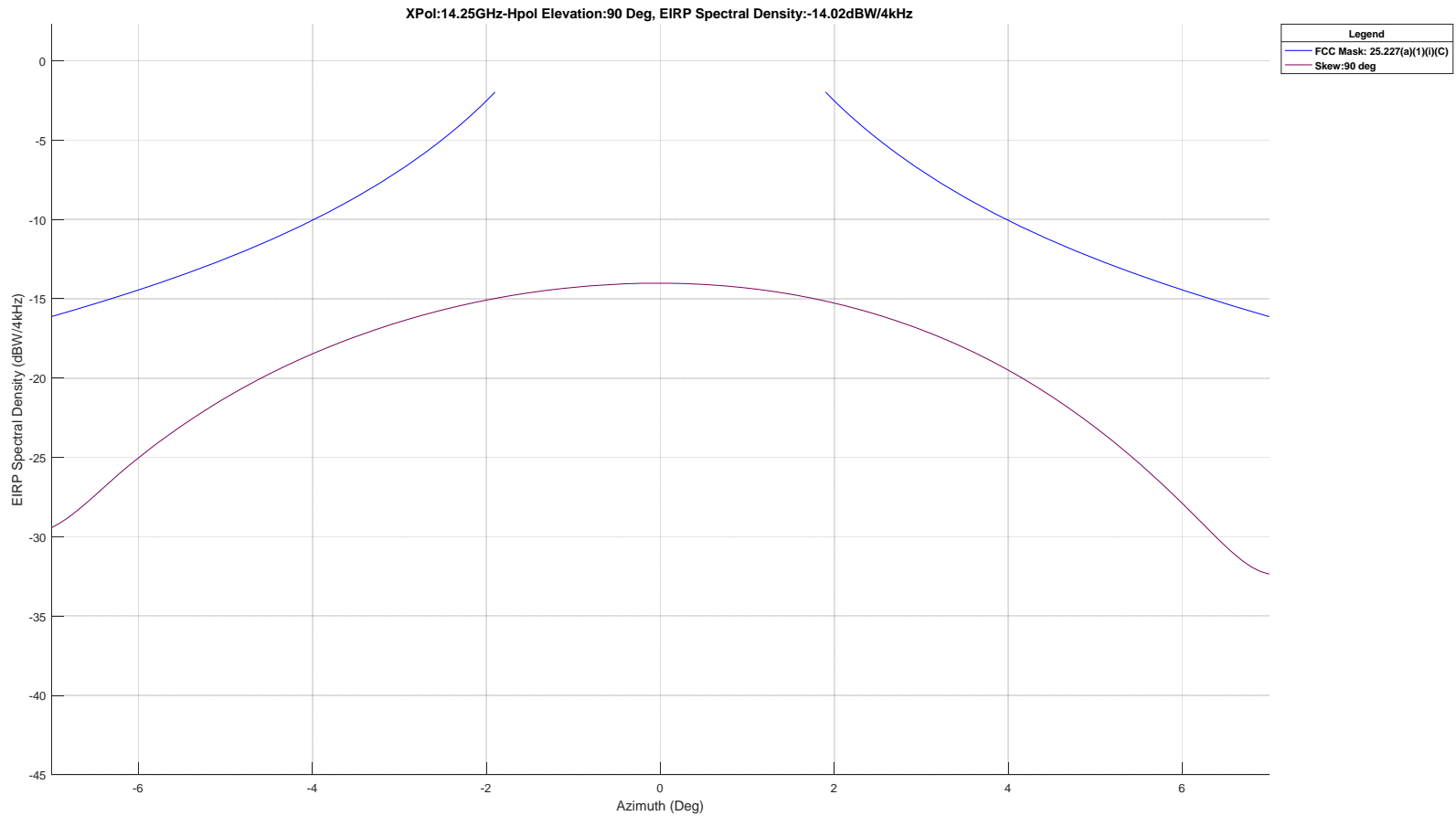
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.22DBW/4KHZ



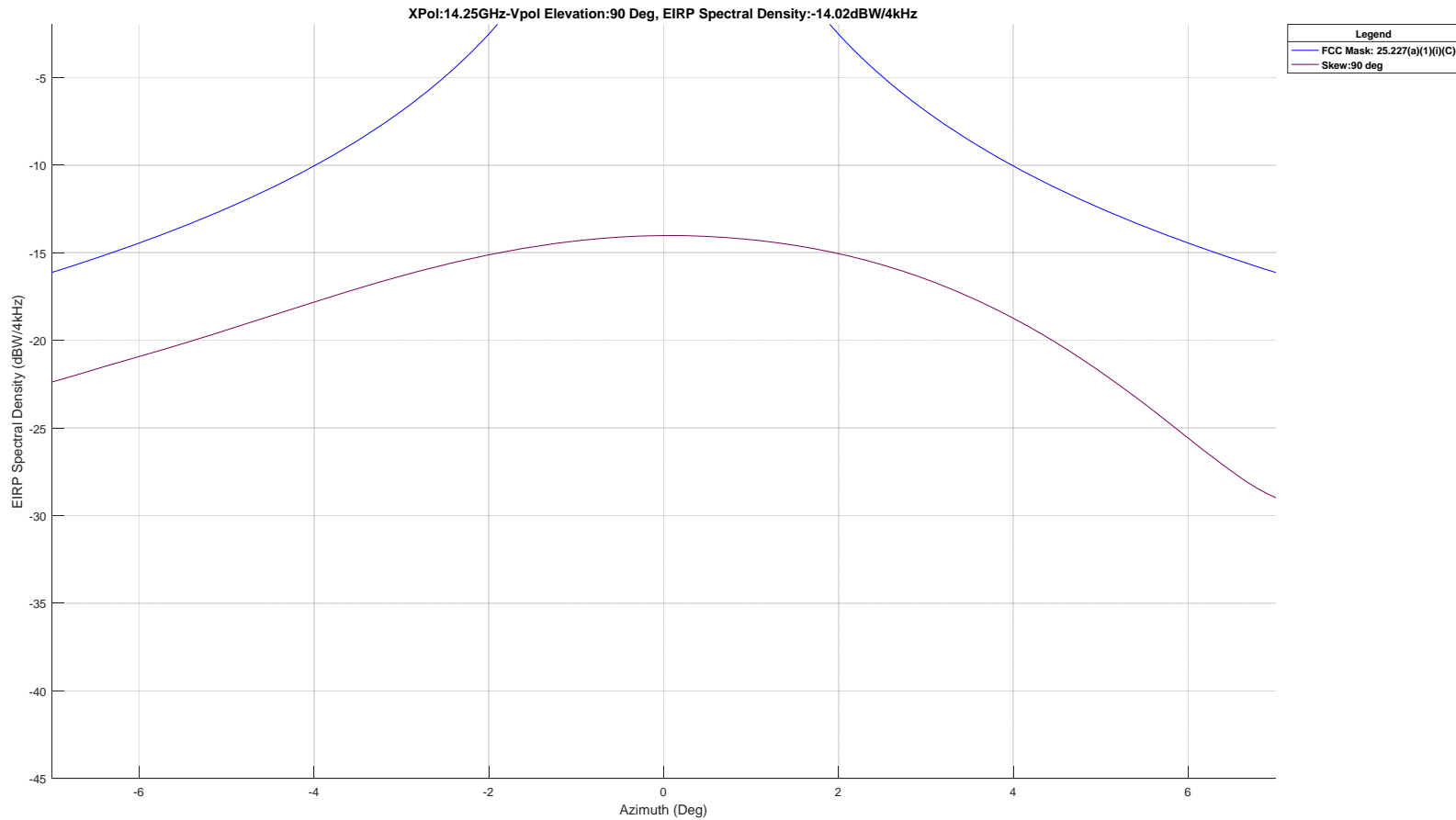
# XPOL-PERPENDICULAR TO GSO PLANE:14.00GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.23DBW/4KHZ



# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.02DBW/4KHZ

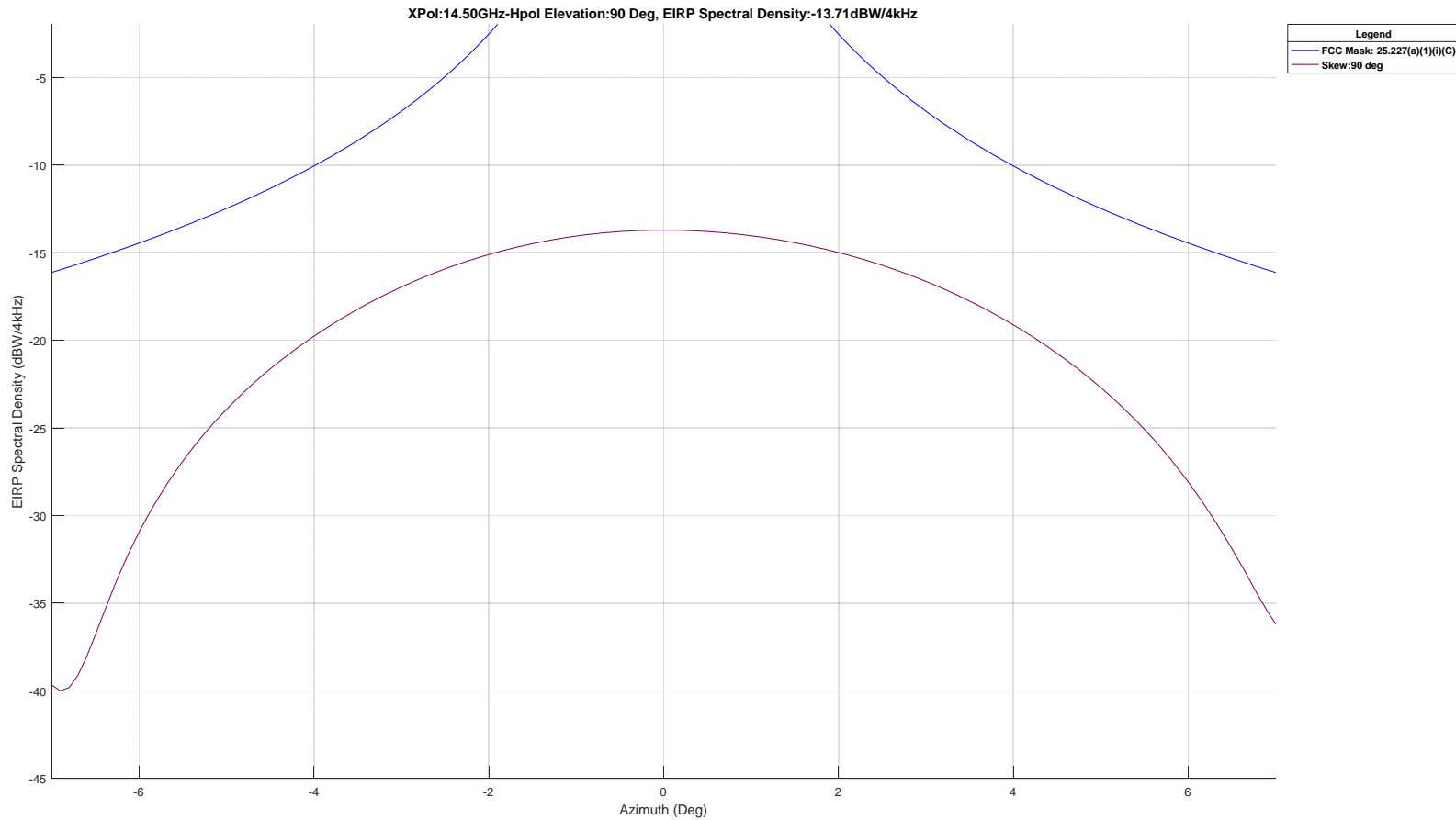


# XPOL-PERPENDICULAR TO GSO PLANE:14.25GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-14.02DBW/4KHZ





# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-HPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-13.71DBW/4KHZ



# XPOL-PERPENDICULAR TO GSO PLANE:14.50GHZ-VPOL ELEVATION:90 DEG, EIRP SPECTRAL DENSITY:-13.72DBW/4KHZ

