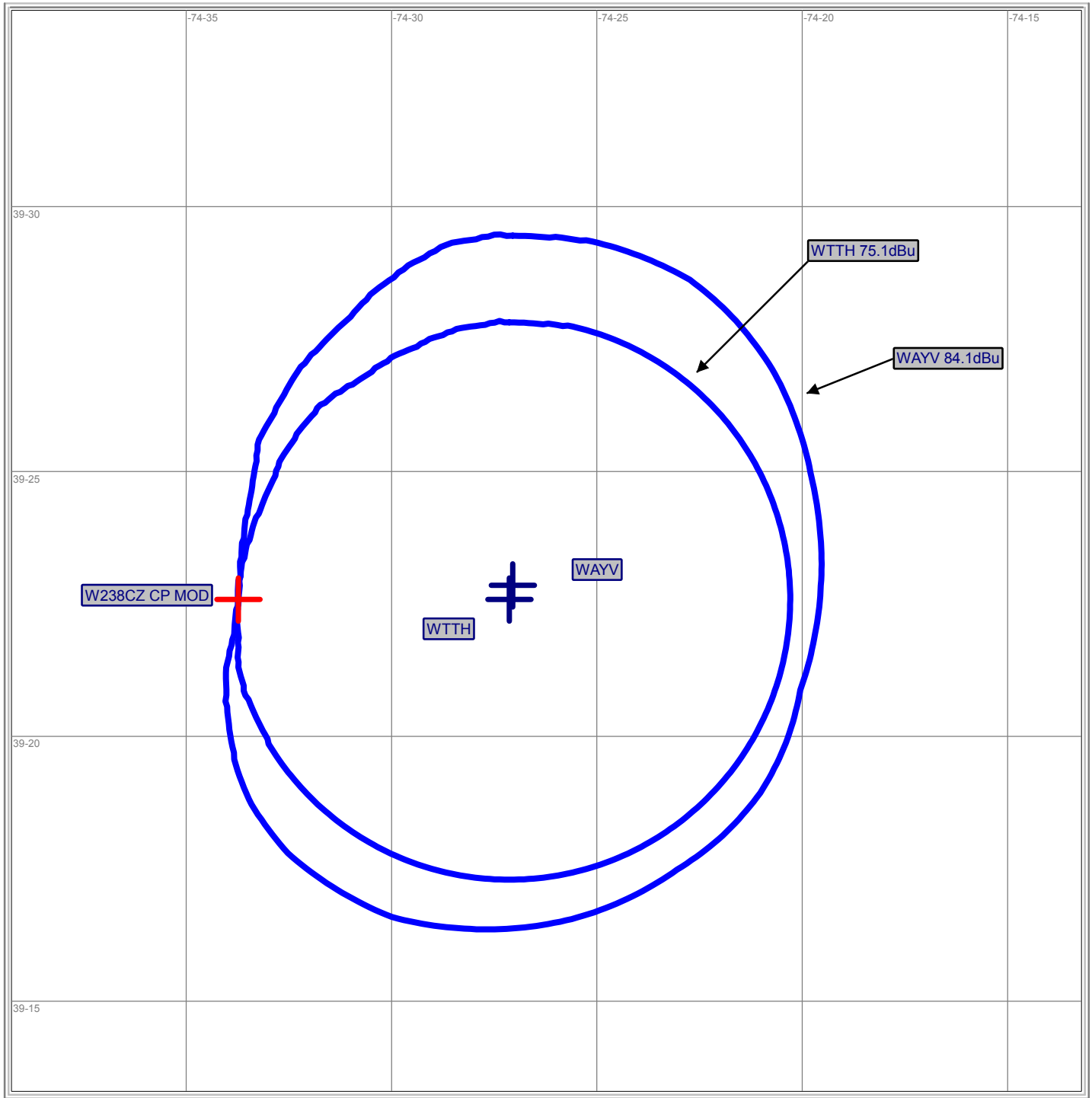


W238CZ CP Mod - 2nd/3rd Adjacent Study



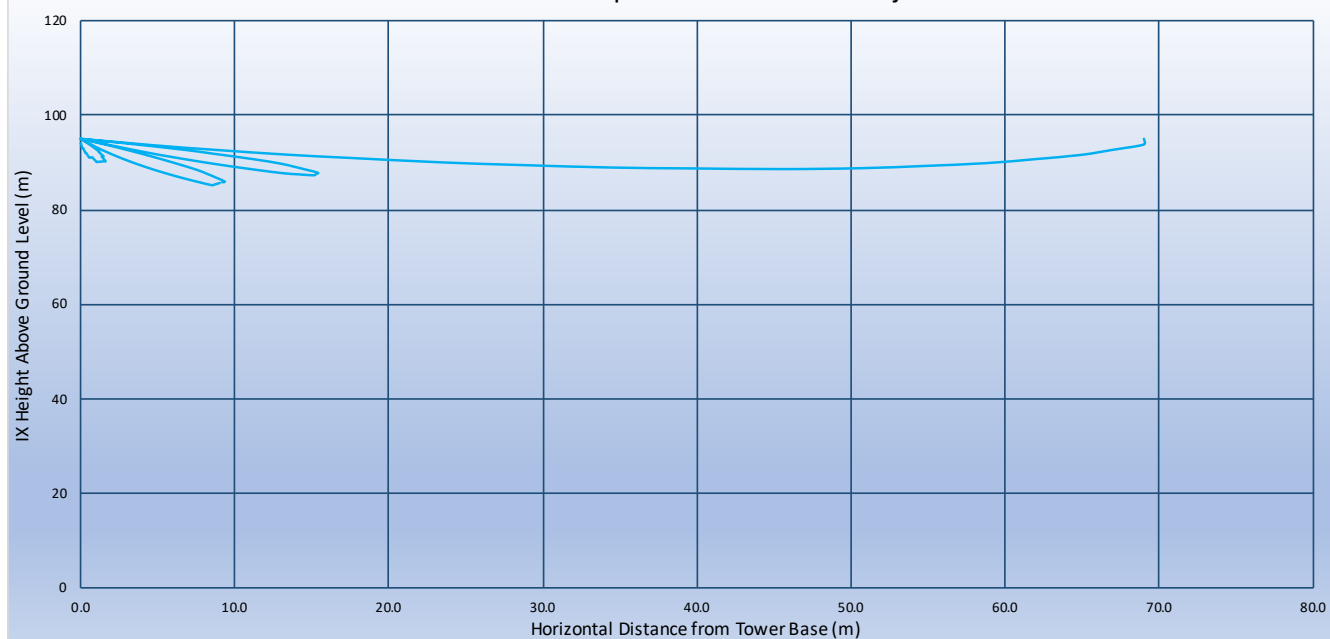
Lat/Lon Grid

Interference Calculation with respect to WAYV Atlantic City, NJ

Protected Adjacent Station: WAYV - Channel 236B
 Signal level of protected station at proposed site (dBu): 84.1
 Proposed Facility: W238CZ CP Mod
 Proposed Antenna: Bext TFC2K-4-0.85 Wavelength
 Proposed Max ERP (W): 250
 Proposed COR AGL (m): 95
 Proposed +40dB Interference Contour Level (dBu): 124.1

Downward Angle (degrees)	Relative Vertical Field	ERP(W)	Distance to IX Contour along Depression Angle (m)	Distance to IX contour from tower base (m)	IX Height Above Ground Level (m)	Downward Angle (degrees)	Relative Vertical Field	ERP(W)	Distance to IX Contour along Depression Angle (m)	Distance to IX contour from tower base (m)	IX Height Above Ground Level (m)
0	1.000	250.0	69	69.0	95.0	46	0.192	9.2	13	9.0	85.6
1	0.993	246.5	69	69.0	93.8	47	0.191	9.1	13	8.9	85.5
2	0.973	236.7	67	67.0	92.7	48	0.187	8.7	13	8.7	85.3
3	0.943	222.3	65	64.9	91.6	49	0.181	8.2	13	8.5	85.2
4	0.900	202.5	62	61.8	90.7	50	0.171	7.3	12	7.7	85.8
5	0.850	180.6	59	58.8	89.9	51	0.159	6.3	11	6.9	86.5
6	0.789	155.6	55	54.7	89.3	52	0.147	5.4	10	6.2	87.1
7	0.736	135.4	51	50.6	88.8	53	0.132	4.4	9	5.4	87.8
8	0.664	110.2	46	45.6	88.6	54	0.117	3.4	8	4.7	88.5
9	0.582	84.7	40	39.5	88.7	55	0.101	2.6	7	4.0	89.3
10	0.503	63.3	35	34.5	88.9	56	0.086	1.8	6	3.4	90.0
11	0.424	44.9	29	28.5	89.5	57	0.070	1.2	5	2.7	90.8
12	0.345	29.8	24	23.5	90.0	58	0.055	0.8	4	2.1	91.6
13	0.262	17.2	18	17.5	91.0	59	0.040	0.4	3	1.5	92.4
14	0.200	10.0	14	13.6	91.6	60	0.026	0.2	2	1.0	93.3
15	0.130	4.2	9	8.7	92.7	61	0.012	0.0	0	0.0	95.0
16	0.066	1.1	5	4.8	93.6	62	0.001	0.0	0	0.0	95.0
17	0.009	0.0	0	0.0	95.0	63	0.011	0.0	0	0.0	95.0
18	0.047	0.6	3	2.9	94.1	64	0.022	0.1	1	0.4	94.1
19	0.097	2.4	7	6.6	92.7	65	0.031	0.2	2	0.8	93.2
20	0.136	4.6	9	8.5	91.9	66	0.040	0.4	3	1.2	92.3
21	0.172	7.4	12	11.2	90.7	67	0.046	0.5	3	1.2	92.2
22	0.201	10.1	14	13.0	89.8	68	0.053	0.7	4	1.5	91.3
23	0.223	12.4	15	13.8	89.1	69	0.058	0.8	4	1.4	91.3
24	0.237	14.0	16	14.6	88.5	70	0.063	1.0	4	1.4	91.2
25	0.245	15.0	17	15.4	87.8	71	0.066	1.1	5	1.6	90.3
26	0.246	15.1	17	15.3	87.5	72	0.068	1.2	5	1.5	90.2
27	0.240	14.4	17	15.1	87.3	73	0.070	1.2	5	1.5	90.2
28	0.230	13.2	16	14.1	87.5	74	0.071	1.3	5	1.4	90.2
29	0.216	11.7	15	13.1	87.7	75	0.071	1.3	5	1.3	90.2
30	0.192	9.2	13	11.3	88.5	76	0.070	1.2	5	1.2	90.1
31	0.166	6.9	11	9.4	89.3	77	0.068	1.2	5	1.1	90.1
32	0.135	4.6	9	7.6	90.2	78	0.066	1.1	5	1.0	90.1
33	0.103	2.7	7	5.9	91.2	79	0.063	1.0	4	0.8	91.1
34	0.069	1.2	5	4.1	92.2	80	0.061	0.9	4	0.7	91.1
35	0.037	0.3	2	1.6	93.9	81	0.057	0.8	4	0.6	91.0
36	0.003	0.0	0	0.0	95.0	82	0.052	0.7	4	0.6	91.0
37	0.031	0.2	2	1.6	93.8	83	0.047	0.6	3	0.4	92.0
38	0.063	1.0	4	3.2	92.5	84	0.042	0.4	3	0.3	92.0
39	0.090	2.0	6	4.7	91.2	85	0.037	0.3	2	0.2	93.0
40	0.117	3.4	8	6.1	89.9	86	0.031	0.2	2	0.1	93.0
41	0.138	4.8	10	7.5	88.4	87	0.026	0.2	2	0.1	93.0
42	0.157	6.2	11	8.2	87.6	88	0.022	0.1	1	0.0	94.0
43	0.172	7.4	12	8.8	86.8	89	0.019	0.1	1	0.0	94.0
44	0.182	8.3	13	9.4	86.0	90	0.017	0.1	1	0.0	94.0
45	0.189	8.9	13	9.2	85.8						

Interference Calculation with respect to 2nd-channel adjacent station WAYV

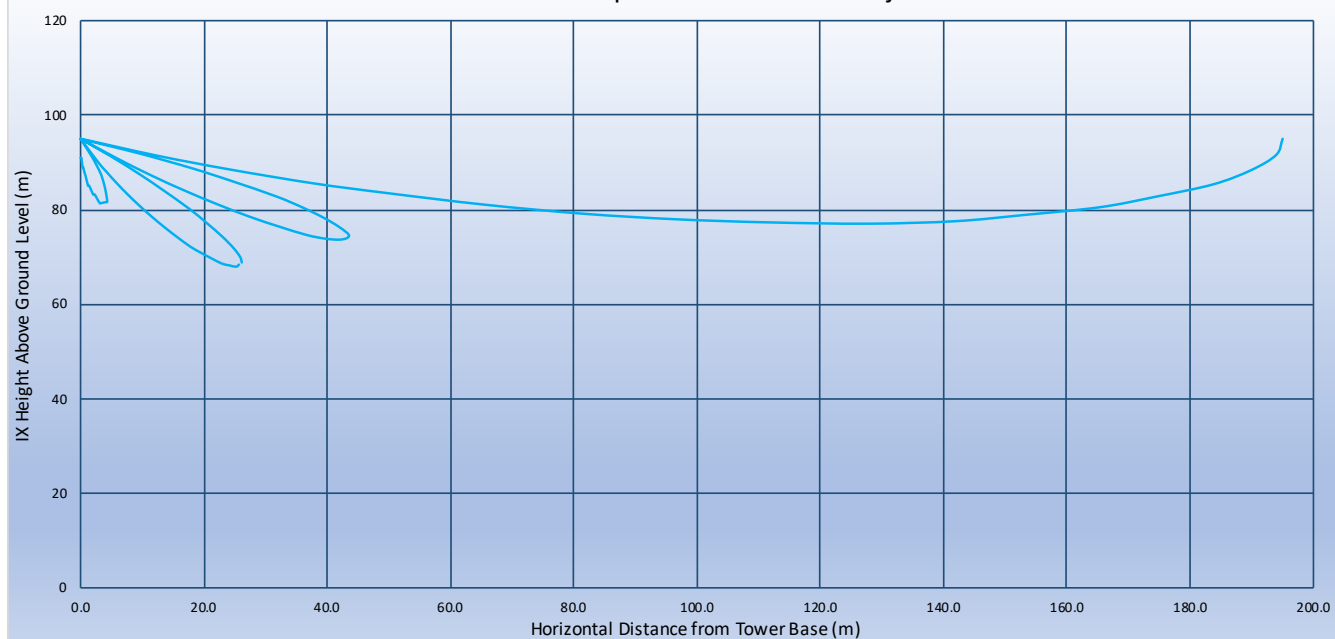


Interference Calculation with respect to WTTH Margate City, NJ

Protected Adjacent Station: WTTH - Channel 241A
 Signal level of protected station at proposed site (dBu): 75.1
 Proposed Facility: W238CZ CP Mod
 Proposed Antenna: Bext TFC2K-4-0.85 Wavelength
 Proposed Max ERP (W): 250
 Proposed COR AGL (m): 95
 Proposed +40dB Interference Contour Level (dBu): 115.1

Downward Angle (degrees)	Relative Vertical Field	ERP(W)	Distance to IX Contour along Depression Angle (m)	Distance to IX contour from tower base (m)	IX Height Above Ground Level (m)	Downward Angle (degrees)	Relative Vertical Field	ERP(W)	Distance to IX Contour along Depression Angle (m)	Distance to IX contour from tower base (m)	IX Height Above Ground Level (m)
0	1.000	250.0	195	195.0	95.0	46	0.192	9.2	37	25.7	68.4
1	0.993	246.5	194	194.0	91.6	47	0.191	9.1	37	25.2	67.9
2	0.973	236.7	190	189.9	88.4	48	0.187	8.7	36	24.1	68.2
3	0.943	222.3	184	183.7	85.4	49	0.181	8.2	35	23.0	68.6
4	0.900	202.5	175	174.6	82.8	50	0.171	7.3	33	21.2	69.7
5	0.850	180.6	166	165.4	80.5	51	0.159	6.3	31	19.5	70.9
6	0.789	155.6	154	153.2	78.9	52	0.147	5.4	29	17.9	72.1
7	0.736	135.4	143	141.9	77.6	53	0.132	4.4	26	15.6	74.2
8	0.664	110.2	129	127.7	77.0	54	0.117	3.4	23	13.5	76.4
9	0.582	84.7	113	111.6	77.3	55	0.101	2.6	20	11.5	78.6
10	0.503	63.3	98	96.5	78.0	56	0.086	1.8	17	9.5	80.9
11	0.424	44.9	83	81.5	79.2	57	0.070	1.2	14	7.6	83.3
12	0.345	29.8	67	65.5	81.1	58	0.055	0.8	11	5.8	85.7
13	0.262	17.2	51	49.7	83.5	59	0.040	0.4	8	4.1	88.1
14	0.200	10.0	39	37.8	85.6	60	0.026	0.2	6	3.0	89.8
15	0.130	4.2	25	24.1	88.5	61	0.012	0.0	0	0.0	95.0
16	0.066	1.1	13	12.5	91.4	62	0.001	0.0	0	0.0	95.0
17	0.009	0.0	0	0.0	95.0	63	0.011	0.0	0	0.0	95.0
18	0.047	0.6	10	9.5	91.9	64	0.022	0.1	4	1.8	91.4
19	0.097	2.4	19	18.0	88.8	65	0.031	0.2	6	2.5	89.6
20	0.136	4.6	26	24.4	86.1	66	0.040	0.4	8	3.3	87.7
21	0.172	7.4	34	31.7	82.8	67	0.046	0.5	9	3.5	86.7
22	0.201	10.1	39	36.2	80.4	68	0.053	0.7	10	3.7	85.7
23	0.223	12.4	43	39.6	78.2	69	0.058	0.8	11	3.9	84.7
24	0.237	14.0	46	42.0	76.3	70	0.063	1.0	12	4.1	83.7
25	0.245	15.0	48	43.5	74.7	71	0.066	1.1	13	4.2	82.7
26	0.246	15.1	48	43.1	74.0	72	0.068	1.2	14	4.3	81.7
27	0.240	14.4	47	41.9	73.7	73	0.070	1.2	14	4.1	81.6
28	0.230	13.2	45	39.7	73.9	74	0.071	1.3	14	3.9	81.5
29	0.216	11.7	42	36.7	74.6	75	0.071	1.3	14	3.6	81.5
30	0.192	9.2	37	32.0	76.5	76	0.070	1.2	14	3.4	81.4
31	0.166	6.9	32	27.4	78.5	77	0.068	1.2	14	3.1	81.4
32	0.135	4.6	26	22.0	81.2	78	0.066	1.1	13	2.7	82.3
33	0.103	2.7	20	16.8	84.1	79	0.063	1.0	12	2.3	83.2
34	0.069	1.2	14	11.6	87.2	80	0.061	0.9	12	2.1	83.2
35	0.037	0.3	7	5.7	91.0	81	0.057	0.8	11	1.7	84.1
36	0.003	0.0	0	0.0	95.0	82	0.052	0.7	10	1.4	85.1
37	0.031	0.2	6	4.8	91.4	83	0.047	0.6	10	1.2	85.1
38	0.063	1.0	12	9.5	87.6	84	0.042	0.4	8	0.8	87.0
39	0.090	2.0	17	13.2	84.3	85	0.037	0.3	7	0.6	88.0
40	0.117	3.4	23	17.6	80.2	86	0.031	0.2	6	0.4	89.0
41	0.138	4.8	27	20.4	77.3	87	0.026	0.2	6	0.3	89.0
42	0.157	6.2	31	23.0	74.3	88	0.022	0.1	4	0.1	91.0
43	0.172	7.4	34	24.9	71.8	89	0.019	0.1	4	0.1	91.0
44	0.182	8.3	36	25.9	70.0	90	0.017	0.1	4	0.0	91.0
45	0.189	8.9	37	26.2	68.8						

Interference Calculation with respect to 3rd-channel adjacent station WTTH



W238CZ CP Mod

195 meter radius indicated

W238CZ CP Mod

Google Earth

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600 ft