

W246DG Channel Study 04102017.txt

ComStudy 2.2 search of channel 246 (97.1 MHz Class D) at 35-29-31.0 N, 85-02-59.0 W.
COR: 26 meters ERP: 107 watts Pattern: Directional

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
WDOD-FM	CHATTANOOGA	TN 243 C0	44.05	0.00	213.6	-8.13 dB(*1)
WUUQ	SOUTH PITTSBURG	TN 247 C2	78.32	0.00	222.7	-0.00 dB(*2)
WEOZ-LP	LOUDON	TN 246 LP100	68.48	24.00	66.4	1.48 dB
WTNG-LP	CLEVELAND	TN 245 LP100	39.87	13.00	156.4	4.58 dB
WJXB-FM	KNOXVILLE	TN 248 C	116.25	0.00	59.9	14.68 dB
WSRV	GAINESVILLE	GA 246 C	186.68	0.00	144.1	14.99 dB
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W245BJ	CROSSVILLE	TN 245 D	50.87	0.00	1.4	17.60 dB
W245BJ	CROSSVILLE	TN 245 D	50.87	0.00	1.4	17.60 dB
W246DH	SEYMOUR	TN 246 D	130.26	0.00	73.6	17.61 dB
W249BR	LOOKOUT MOUNTAIN	TN 249 D	76.43	0.00	204.2	20.98 dB
WJQQ	SOMERSET	KY 246 C2	168.66	0.00	14.7	25.81 dB
WSRV	GAINESVILLE	GA 246 C	208.45	0.00	145.9	26.20 dB
WDOD-FM	CHATTANOOGA	TN 243 C0	44.18	0.00	213.7	26.41 dB
WLVU	BELLE MEADE	TN 246 C2	177.86	0.00	300.8	28.63 dB
WRSA-FM	HOLLY POND	AL 245 C0	181.95	0.00	232.7	29.08 dB
WLVU	BELLE MEADE	TN 246 C2	179.30	0.00	299.1	30.59 dB
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WUUQ	SOUTH PITTSBURG	TN 247 C2	76.60	0.00	228.7	30.58 dB
W249DA	CROSSVILLE	TN 249 D	50.87	0.00	1.4	31.97 dB
W246DB	ANNISTON	AL 246 D	212.82	0.00	199.4	32.21 dB
WSRV	GAINESVILLE	GA 246 C	186.69	0.00	144.1	32.71 dB
WJNU-LP	COOKEVILLE	TN 245 LP100	87.20	13.00	335.3	33.82 dB
WJQQ	SOMERSET	KY 246 C2	184.70	0.00	12.1	33.37 dB
WOGT	EAST RIDGE	TN 300 C3	46.13	12.00	208.3	34.1
WMYL	HALLS CROSSROADS	TN 244 A	113.09	0.00	54.9	34.98 dB
WJQQ	SOMERSET	KY 246 C2	169.30	0.00	14.7	36.34 dB
861216MD	GOODLETTSVILLE	TN 246 C2	163.76	0.00	305.2	36.16 dB
WENV-LP	GAINESBORO	TN 247 LP100	111.41	13.00	322.3	38.06 dB
WLVU*	BELLE MEADE	TN 246 C2	177.86	0.00	300.8	38.27 dB
WXBQ-FM	BRISTOL	VA 245 C	282.79	0.00	67.4	39.89 dB
WGPB	ROME	GA 249 C3	140.44	0.00	186.8	39.58 dB
WLLX	LAWRENCEBURG	TN 248 C2	188.18	0.00	263.5	39.34 dB

(*1) No population, occupied structures of public roadways inside WDOD-FM interference area.

See Exhibit

(*2) No overlap to WUUQ. See contour map in Exhibit.

(No interference CAUSED to WDOD-FM)

3rd adjacent WDOD-FM has a field strength of 67.7 dBu F(50,50) at the proposed site. Therefore the proposed translator's interfering contour is the 107.7 dBu F(50,10) contour. At 107 watts ERP, the proposed translator's 107.7 dBu F(50,10) extends 299 meters horizontally from the antenna. The interfering contour extends only over privately owned land with no public access. There is one road traversing the area. This road requires four wheel drive and is behind a locked gate to prevent public access. The only buildings within the interfering contour are two unattended transmitter buildings so the 107.7 dBu F(50,10) contour does not reach any occupied structures or public roadways. Therefore the proposal is compliant with the allowance of 74.1204(d). See attached satellite view. The white circle represents 299 meters. The small blue circle is the tower and unattended transmitter building of W246DG (shown here as the previous site of WNFM-FM). The small red circle indicates the second unattended transmitter building of a nearby commercial tower.

