

My name is Michael Graziano, and I have been retained by The New River Community Church as recommended by Chris Imlay at Booth, Feret and Imlay who represents the New River Community Church, licensee of Low Power FM station WYPH-LP, in an interference complaint brought by Red Wolf Broadcasting, licensee of WDRC-FM. I am employed by ORTV, Inc, and am Chief Engineer of radio station WJMJ, Hartford, CT. I am Certified by the Society of Broadcast Engineers as a Certified Video Engineer and a Certified Broadcast Technologist.

I personally performed on/off testing for complaints of interference generated to WDRC-FM by the signal from WYPH-LP on March 31, 2021. Testing was observed by Thomas R. Ray, III, CPBE, AMD, DRB, representing WYPH-FM, and who was in my vehicle turning the WYPH-FM transmitter on and off by remote control. I was told that Red Wolf chose not to participate in the testing and no representative of Red Wolf was in attendance.

Testing was done by listening to the radio in my 2019 Honda Civic Sport with a stock Honda HD Radio set to analog mode. Testing outside the vehicle was done with a Sangean PR-D5 portable AM/FM radio with RDS capabilities. The WDRC-FM signal was listened to for any cross talk, distortion or raised noise floor caused by WYPH-LP being turned on. The RDS signal on WDRC-FM was observed for scrolling slow down and a distorted signal caused by interference from WYPH-LP which would have resulted in gibberish characters on the radios.

Tests were conducted by driving to the locations specified in the complaint received by WYPH-LP. Listening to WDRC-FM was established to insure a good, clean audio signal and valid RDS reception by both the Honda radio and the portable Sangean radio which was placed on the roof of the car. Once I was sure I had a good, clean signal from WDRC-FM, Mr. Ray turned on the WYPH-LP transmitter and I listened for any changes in the audio quality and any changes in the received RDS data on the Honda radio. Once I established and acknowledged any changes, we stepped out of the vehicle and listened to the Sangean radio with WYPH-LP on. Mr. Ray then shut WYPH-LP off and I listened for any changes in the received audio from WDRC-FM, in addition to any changes in the received RDS data.

Before testing started, I went to the WYPH-LP transmitter site at 33 Mitchell Road in Manchester, CT. Mr. Ray turned the transmitter on and I observed that the transmitter output was running at 202 Watts as specified in the WYPH-LP license, and that it corresponded to a reading of 100% on the Burk remote control so that we would have field acknowledgement of proper power output. Positive control of the transmitter with the Burk was also proven at this time.

We then traveled to the following locations, and my observations are as follows:

- 74 Main Street, Manchester, CT, St. Bridget's School. This location is 0.81 miles from the WYPH-LP transmitter site as measured straight line on Google Earth. Since no exact location was specified in the complaint, a parking spot was chosen in the parking area in front of the school. The Sangean radio was placed on the roof of the vehicle. Listening to WDRC-FM was established on the Honda radio and Mr. Ray turned on the WYPH-LP transmitter. I heard no changes at all in the audio – no cross talk, no distortion, no change in the noise floor. I did not observe any anomalies in the received RDS data from WDRC-FM. I did change the radio's tuning to 102.5 MHz to verify that WYPH-LP was, in fact, on the air. I then got out of the car and listened to the portable radio with WYPH-LP still on. The audio sounded good. There was no distortion in the RDS data. Mr. Ray then turned off the WYPH-LP transmitter. The audio did not change on the portable radio and was still good. There is no evidence of interference at this location.

- 375 Oakland Street. This is the location of a Chiropractor's office and is 0.7 miles from the WYPH-LP transmitter site as measured straight line on Google Earth. I chose a parking space at the street end of the lot. The Sangean radio was placed on the roof of the vehicle. Listening to WDRC-FM was established on the Honda radio and Mr. Ray turned on the WYPH-LP transmitter. I did not hear any changes in the audio. I did not observe any problems with the received RDS data from WDRC-FM. I changed the radio's tuning to 102.5 MHz to verify that WYPH-LP was on the air. I then got out of the car and listened to the portable radio with WYPH-LP still on the air. The audio sounded good with no distortion or added noise. There was no problem noted in the RDS data. Mr. Ray then turned off the WYPH-LP transmitter. The audio did not change on the portable radio. I have determined there is no evidence of interference at this location.
- 827 Middle Turnpike East. This is a private home located 1.57 miles from the WYPH-LP transmitter site as measured straight line on Google Earth. At the time of the visit, it appeared that people were home, and it was decided not to check the signal in the driveway of the home for two reasons: first, we are still in the pandemic and it would not be appropriate to intrude on someone's private property and second, their complaint was made over a year ago and they most likely would not remember filing it. It was decided to not risk a confrontation. Signal was checked in the business driveway immediately adjacent to the property. The Sangean radio was placed on the roof of the vehicle. Listening to WDRC-FM was established on the Honda radio and Mr. Ray turned on the WYPH-LP transmitter. The audio quality of WDRC-FM did not change on the Honda radio. There were no problems noted with the received RDS data from WDRC-FM. I changed the radio's tuning to 102.5 MHz to verify that WYPH-LP was on the air. I then got out of the car and listened to the portable radio with WYPH-LP still on the air. The audio was clean. There was no problem noted in the RDS data. Mr. Ray then turned off the WYPH-LP transmitter. The audio did not change on the portable radio. I cannot find evidence of interference at this location.
- Mr. Ray stated that he has also checked the signal at the studio location of WYPH-LP at the New River Community Church, 314 Woodbridge Street. This location is 0.27 miles from the WYPH-LP transmitter site. We drove to that location and repeated the above procedures. Again, there was no change in the audio or RDS data from WDRC-FM with WYPH-LP on or off the air. And again, I can find no evidence of interference at this location.

I could find no interference in existence at any of the above mentioned locations and have concluded that no interference exists.

Michael Graziano, CEV, CBT
6 Daventry Hill Lane
Suffield, CT 06078
413-478-1745

PHOTOS



Picture of transmitter showing operating power level of 201 Watts.



Picture of Honda radio showing reception of WDRC-FM.



Photo of vehicle at St Bridget's School.



Photo of St. Bridget's location sign.



Location of Chiropractor's office.



Vehicle at chiropractor's office.



827 Middle Turnpike East



Photo showing location of vehicle to 827 Middle Turnpike East.



Photo of vehicle at New River Community Church.



Photo of New River Community Church with vehicle in foreground right.