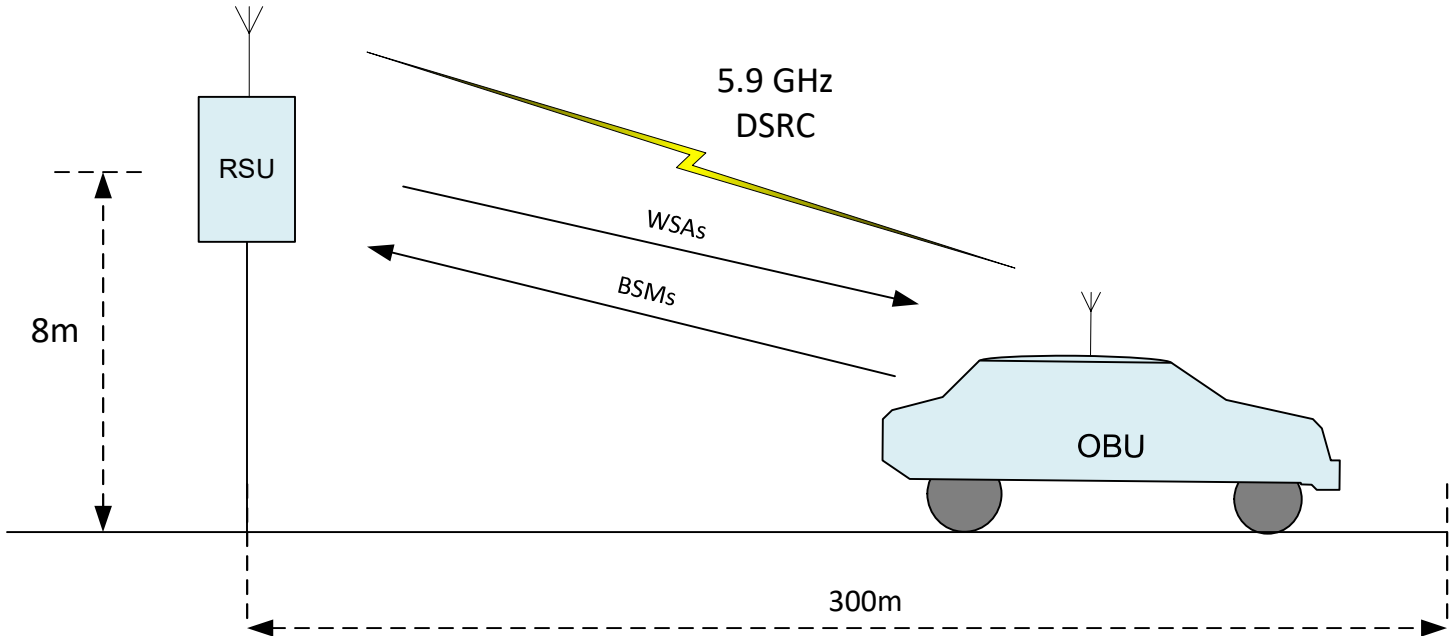


## V2I Field Test

(RSU 4.1 spec, section 3.6.1 – Radio Performance)

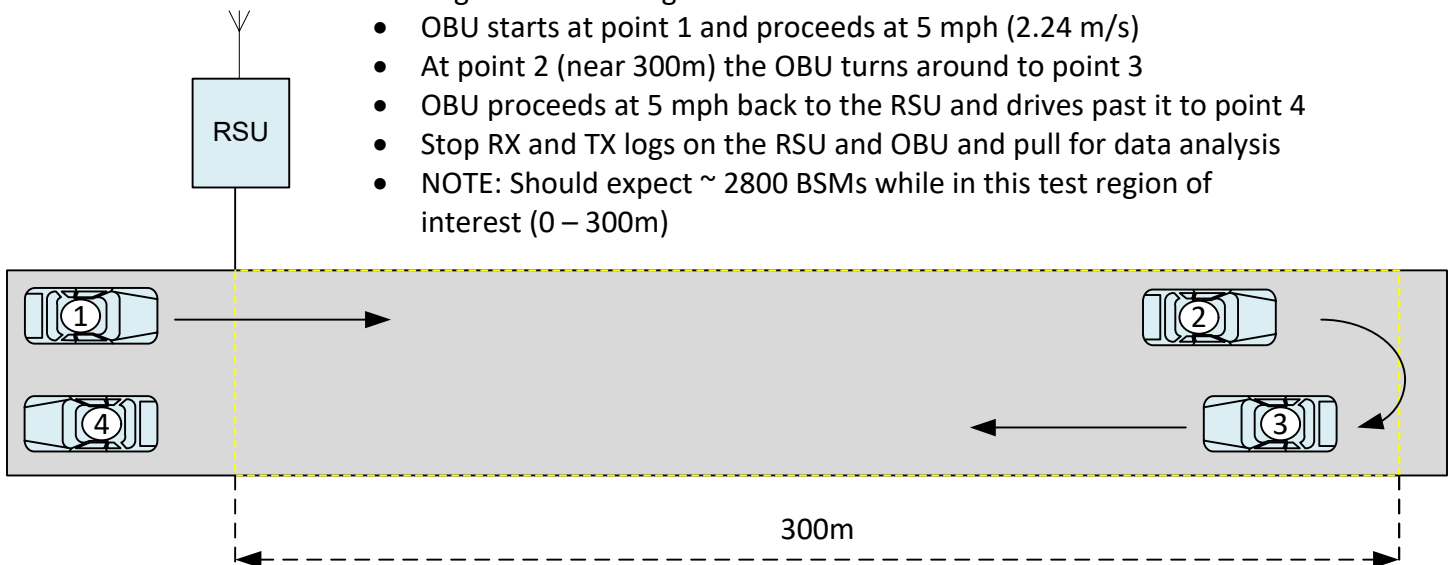
### RSU Field Test Configuration:

- RSU is setup to transmit WSAs on channel 178 at 10 Hz
- RSU is installed at 8m centerline height
- OBU is setup to transmit BSMs on channel 172 at 10 Hz



### RSU Field Test Data Collection:

- Begin RX and TX logs on RSU and OBU
- OBU starts at point 1 and proceeds at 5 mph (2.24 m/s)
- At point 2 (near 300m) the OBU turns around to point 3
- OBU proceeds at 5 mph back to the RSU and drives past it to point 4
- Stop RX and TX logs on the RSU and OBU and pull for data analysis
- NOTE: Should expect ~ 2800 BSMs while in this test region of interest (0 – 300m)



### RSU Field Test Data Analysis:

- Analyze the TX and RX logs from both the RSU and OBU
- Use the OBU-TX-LOG to capture the timeframe that the OBU was in the test region of interest (0 – 300m)
- Crop the data from the other 3 logs to this timespan
- Analyze the OBU transmit log and the RSU receive log to determine RX PER
- Analyze the RSU transmit log and the OBU receive log to determine TX PER
- Anything > 10% PER fails

