

Engineering Statement

In Support of an Application for a Construction Permit

**KVST(FM), Willis, TX
Channel 279C1**

KVST Terrain Study

Reference Coordinates:

North Latitude: 30-19-46

West Longitude: 94-51-31

The antenna is calculated to be at 1673.0 feet (509.9 m.) AMSL.

<u>Azimuth</u>	<u>Terrain Average</u>		<u>Antenna Height</u>	
* 0.0	51.1 feet	(15.6 meters), A. A. T.	1621.7 feet	(494.3 meters).
15.0	52.7 feet	(16.1 meters), A. A. T.	1620.2 feet	(493.8 meters).
30.0	56.3 feet	(17.2 meters), A. A. T.	1616.6 feet	(492.7 meters).
* 45.0	61.8 feet	(18.8 meters), A. A. T.	1611.1 feet	(491.1 meters).
60.0	76.9 feet	(23.5 meters), A. A. T.	1595.9 feet	(486.4 meters).
75.0	82.7 feet	(25.2 meters), A. A. T.	1590.2 feet	(484.7 meters).
* 90.0	81.0 feet	(24.7 meters), A. A. T.	1591.9 feet	(485.2 meters).
105.0	71.0 feet	(21.6 meters), A. A. T.	1601.9 feet	(488.3 meters).
120.0	53.8 feet	(16.4 meters), A. A. T.	1619.1 feet	(493.5 meters).
* 135.0	43.3 feet	(13.2 meters), A. A. T.	1629.6 feet	(496.7 meters).
150.0	31.6 feet	(9.6 meters), A. A. T.	1641.2 feet	(500.3 meters).
165.0	38.8 feet	(11.8 meters), A. A. T.	1634.1 feet	(498.1 meters).
* 180.0	53.8 feet	(16.4 meters), A. A. T.	1619.1 feet	(493.5 meters).
195.0	68.4 feet	(20.9 meters), A. A. T.	1604.5 feet	(489.0 meters).
210.0	82.3 feet	(25.1 meters), A. A. T.	1590.6 feet	(484.8 meters).
* 225.0	97.2 feet	(29.6 meters), A. A. T.	1575.6 feet	(480.3 meters).
240.0	109.6 feet	(33.4 meters), A. A. T.	1563.3 feet	(476.5 meters).
255.0	116.8 feet	(35.6 meters), A. A. T.	1556.1 feet	(474.3 meters).
* 270.0	129.3 feet	(39.4 meters), A. A. T.	1543.5 feet	(470.5 meters).
285.0	136.1 feet	(41.5 meters), A. A. T.	1536.8 feet	(468.4 meters).
300.0	131.4 feet	(40.1 meters), A. A. T.	1541.4 feet	(469.8 meters).
* 315.0	113.2 feet	(34.5 meters), A. A. T.	1559.7 feet	(475.4 meters).
330.0	90.4 feet	(27.6 meters), A. A. T.	1582.5 feet	(482.3 meters).
345.0	52.3 feet	(15.9 meters), A. A. T.	1620.6 feet	(494.0 meters).
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Avg. of 8:	78.8 feet	(24.0 meters); HAAT	1594.2 feet	(485.9 meters).

* Only eight cardinal radials used in terrain averaging