

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

(703)726-5653 www.comsearch.com

PCN Date: 09/11/2008

Job Number: 080911COMSDS01

New Path

RCN Number: 08091108

Administrative Information	TEST SITE A TX	TEST SITE B TX
City/County	McKinney/Collin	McKinney/Collin
Status / License Basis	Engineering Proposal for Experimental License (0126-EX-PI-2008)	
Call Sign	WE2XRD	
Licensee Code	RAYCOM	RAYCOM
Licensee Name	RAYTHEON COMPANY	RAYTHEON COMPANY
Radio Service / Station Class	MG -- Microwave Industrial/Business Pool	FXO -- Fixed

Site Information

Latitude (NAD 83)	33 ° 12' 42.9" N	33 ° 12' 57.9" N
Longitude (NAD 83)	96 ° 39' 4.5" W	96 ° 39' 20.6" W
Ground Elevation (m/ft-AMSL)	192.94 / 633.0	200.56 / 658.0
Antenna Structure Registration #		
Path Azimuth (°)	317.942	137.940
Path Length (km / miles)	0.622 / 0.387	

Transmit Antenna

Manufacturer	O00000
Model	MI Technology
Gain (dBi) / Beamwidth (°) / Tilt (°)	22-8A
Centerline (m / ft - AGL)	10.0 / 198.00 / 0.33
	30.48 / 100.0

Receive Antenna

Manufacturer	O00000
Model	MI Technology
Gain (dBi) / Beamwidth (°)	22-8A
Centerline (m / ft - AGL)	10.0 / 198.00
	26.52 / 87.0

Diversity Receive Antenna

Manufacturer	
Model	
Gain (dBi) / Beamwidth (°)	
Centerline (m / ft - AGL)	

Radio Information

Manufacturer	TEMI95	999999
Model	HEWLETT-PACKARD COMPANY	RECEIVE
Model Description	HP SIGNAL GENERATOR	ONLY
Emission Designator / Modulation	HP8672 Synthesized Sweeper	
Loading	NON	
Stability (%)	1 CH AMV 0.000	1 CH AMV 0.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	17.0	
Received Level (dBm)		-68.6
EIRP (dBm)	17.0	
Fixed Loss: Tx / Common (dB)	9.0 / 1.0	0.0 / 1.0
Free Space Loss (dB)		94.6

Test Frequency Ranges (MHz)

1990V – 2110V, 2110V – 2180V
3650V – 4200V

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PCN Date: 09/11/2008

Job Number 080911COMSDS01

New Path

RCN Number: 08091107

Administrative Information

City/County
Status / License Basis
Call Sign
Licensee Code
Licensee Name
Radio Service / Station Class

TEST SITE A TX

McKinney/Collin
Engineering Proposal for Experimental License (0126-EX-PI-2008)
WE2XRD
RAYCOM
RAYTHEON COMPANY
MG -- Microwave Industrial/Business Pool

TEST SITE B TX

McKinney/Collin
RAYCOM
RAYTHEON COMPANY
FXO -- Fixed

Site Information

Latitude (NAD 83)	33 ° 12' 42.9" N	33 ° 12' 57.9" N
Longitude (NAD 83)	96 ° 39' 24.5" W	96 ° 39' 20.6" W
Ground Elevation (m/ft-AMSL)	192.94 / 633.0	200.56 / 658.0
Antenna Structure Registration #		
Path Azimuth (°)	12.328	192.329
Path Length (km / miles)		0.473 / 0.294

Transmit Antenna

O00000
Manufacturer
MI Technology
Model
22-4A
Gain (dBi) / Beamwidth (°) / Tilt (°)
10.0 / 198.00 / 0.44
Centerline (m / ft - AGL)
30.48 / 100.0

Receive Antenna

O00000
Manufacturer
MI Technology
Model
22-4A
Gain (dBi) / Beamwidth (°)
10.0 / 198.00
Centerline (m / ft - AGL)
26.52 / 87.0

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

Manufacturer	TEM95	999999
Model	HEWLETT-PACKARD COMPANY	RECEIVE
Model Description	HP SIGNAL GENERATOR	ONLY
Emission Designator / Modulation	HP8672 Synthesized Sweeper	
Loading	NON	
Stability (%)	1 CH AMV 0.000	1 CH AMV 0.000
	0.001	0.001
	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Power (dBm)	17.0	
Received Level (dBm)		-71.6
EIRP (dBm)	12.0	
Fixed Loss: Tx / Common (dB)	14.0 / 1.0	0.0 / 1.0
Free Space Loss (dB)		92.6

Test Frequency Ranges (MHz)

10700V – 11700V
11700V – 12750V