

UNCLASSIFIED		
SECURITY SUMMARY & SPECIAL HANDLING REQUIREMENTS		
<p>The title of this application is : TRUEPOINT 5215G</p> <p>The overall classification of this application is : UNCLASSIFIED</p>		
<p>Refer to your Security Manual for further guidance.</p>		
<p>The Application Level Special Handling is : A</p> <p>Approved for public release; distribution is unlimited (DoD Directive 5230.24)</p>		
DOWNGRADING INSTRUCTIONS		
<p>Special Handling Instruction : A</p>		
CLASSIFICATION		
UNCLASSIFIED		

FULL RECORD PRINT FOR TRuepoint 5215G

Selected Frequencies

(U) 14500 MHz - (U) 14715 MHz

(U) 15137 MHz - (U) 15350 MHz

System Name : (U) TRuepoint 5215G
(Nomenclature)
Stage : (U) 4 - Operational
Agency : (U) DHS - Department of Homeland Security
NTIA Certified : (U) No
Overall Security : Unclassified

Date/Time Last Mod. : 4/29/2008 11:57:06 AM (GMT)
System Description : (U) Fixed Point-to-Point Microwave Radio
Target Date(s)
System Activation : (U) 5/2/2008
System Termination : (U) 5/2/2010

NSEP Use : (U) No
ITU Waiver : (U) No

Control Numbers

SPS- SPS-16473/1

References

Type : Previous Certification
Ref. To Cert.: Yes
Ref. Title : DHS - TRuepoint 5207G - 4 - Unapproved - J/F 12
Ref. Org. : (U) DHS
Ref. Date : 3/19/2008
Ref. Is Class: No

Source Documents

- (U) SPS - SPS-16473/1 TRuepoint 5215G Certification Application 4/29/2008

Geographic Areas for Stage 4

City, State/Country : (U) USP (US & POSS)
Location Type : (U) Polygon of 12868 points

Number Of Units : (U) 18
Estimated Initial Cost of the System : (U) \$25000

Information Transfer Requirement

(U) Bidirectional1MBPS to 154.4

System Essentiality

(U) This system is part of the SBI Network that secures the borders of the USA.

Replacement Information

(U) Not Applicable

Stations

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Station Name : (U) DHS 15GHz Transmit Backhaul

Transmitters

(U) 15GHz Transmit Backhaul

Receivers

(U) TRuepoint 5215G

Antennas

(U) DHS 15 GHz Backhaul Antenna

Station Name : (U) DHS 15 GHz Receive Backhaul - Generic

Links - Selected Modes**Link****Transmitting Station**

(U) DHS 15GHz Transmit Backhaul

Receiving Station

(U) DHS 15 GHz Receive Backhaul

Radio Service : Fixed

Station Class : FX

Equipment Combination

Transmitter : (U) 15GHz Transmit Backhaul

Tx Antenna : (U) DHS 15 GHz Backhaul Antenna

Receiver : Generic

Rx Antenna : Generic

Selected Modes**Frequency**

(U) 14500 MHz - (U) 14715 MHz

(U) 15137 MHz - (U) 15350 MHz

Em. Des

(U) 30M0D7W

(U) 30M0D7W

Power

Mean (U) 0.141 W

Mean (U) 0.141 W

Notes

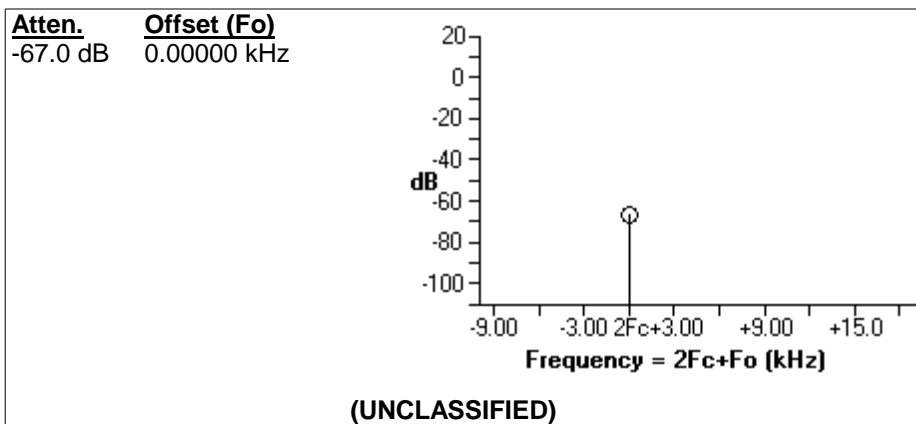
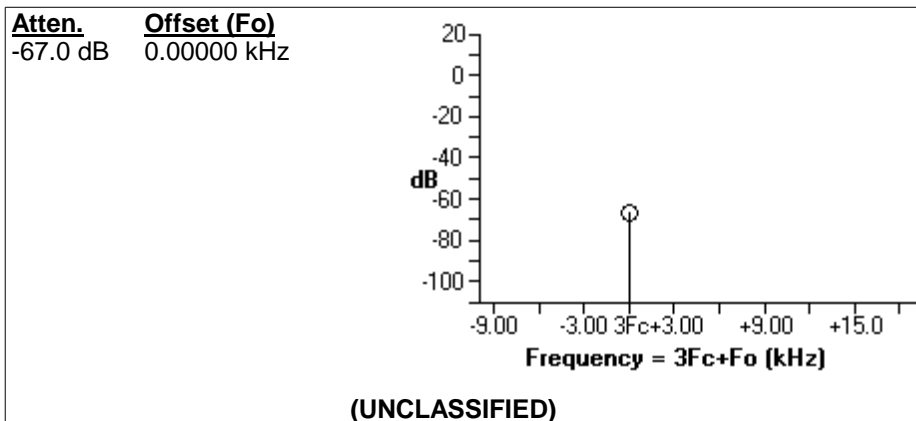
PRI

PRI

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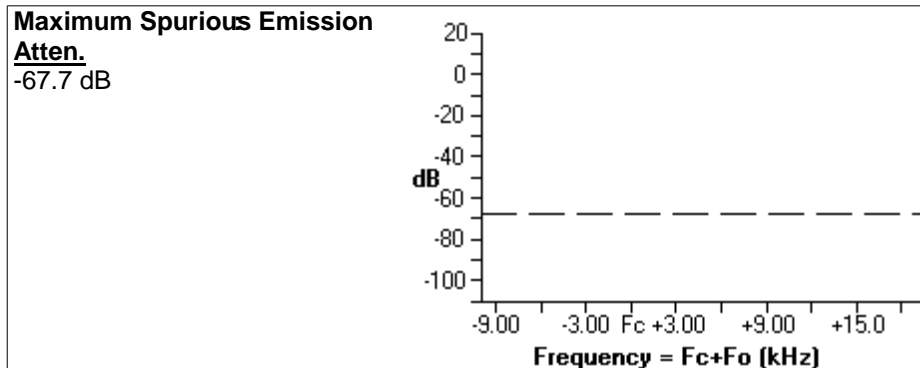
TRANSMITTER 15GHz Transmit Backhaul

Nomenclature : (U) 15GHz Transmit Backhaul
Manufacturer : (U) HARRIS CORP
Model Name : (U) TRuepoint 5215G
NTIA Approval Status : (U) Unapproved
Date/Time Last Mod. : 4/3/2008 11:23:40 AM (GMT)
Coordination ID : (U) J/F 12
Freq. Stability : (U) 5 ppm
Output Device : (U) Other
Tuning Method : (U) Synthesizer
Radar/Comm : (U) Communications
Supp. of Harmonics : (U) No

Figure 1 - 2nd Harmonic Curve (U)**Figure 2 - 3rd Harmonic Curve (U)**

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Figure 3 - Spurious Emission Curve (U)



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Frequencies

Tuned Frequency : (U) 14400 MHz - 15350 MHz

Tuning Increment : (U) 5.0000 kHz

Min. Separation : (U) 30.000 MHz

Em. Designator : (U) 30M0D7W

Necessary BW : (U) 30000 kHz

Modulation - 30M0D7W

Radar/Communications : (U) Communications

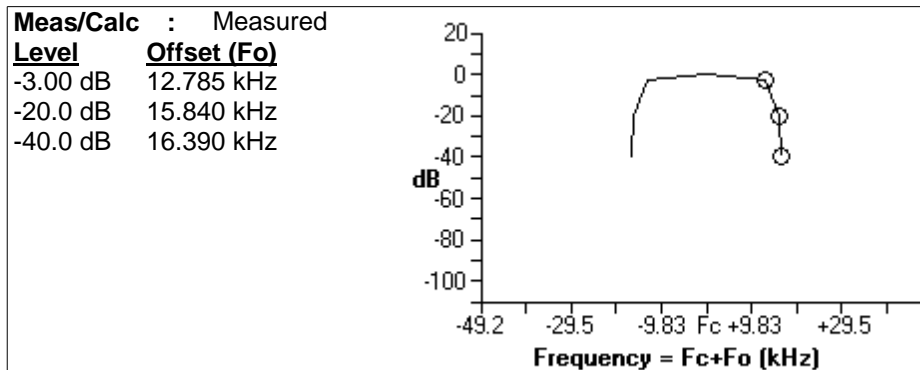
Modulation Type : (U) Digital Modulation

Spread Spectrum : No

Dig. Modulation Type : (U) QAM - Quadrature Amplitude Modulation

Digital Bit Rate : (U) 178787000 bps

Figure 4 - Fundamental Curve (U)



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Powers

Power Type : Mean

Upper Limit : (U) 0.141 W

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RECEIVER TRuepoint 5215G

Nomenclature : (U) TRuepoint 5215G
Manufacturer : (U) HARRIS CORP
Model Name : (U) TRuepoint 5215G
NTIA Approval Status : (U) Unapproved
Date/Time Last Mod. : 4/3/2008 11:26:54 AM (GMT)
Coordination ID : (U) J/F 12
Freq. Stability : (U) 5 ppm
Image Reject : (U) 85.0dB
Tuning Method : (U) Digital Synthesizer
Cond. Undesired Em. : (U) 60.0dBm

Frequencies

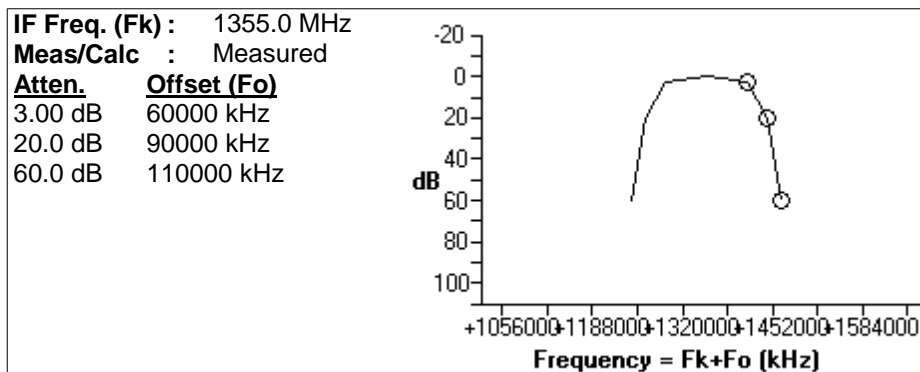
Tuned Frequency : (U) 14400 MHz - 15350 MHz

Tuning Increment : (U) 5.0000 kHz

Sensitivities

Em. Designator : (U) 30M0D7W
Necessary BW : (U) 30000 kHz
Perf. Crit. : (U) BER - Bit Error Rate
Perf. Value : (U) 10
Sensitivity : (U) -68.0 dBm
Noise Fig. : (U) 5.20 dB
Noise Temp. : (U) 670 K
Spur. Reject : (U) 60.0 dB

Figure 5 - IF Selectivity Curve (U)



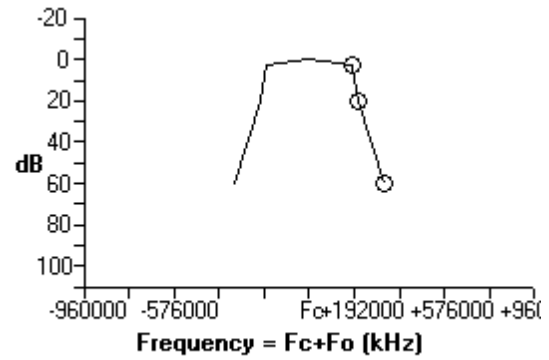
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Figure 6 - RF Selectivity Curve (U)

Meas/Calc : Measured

Atten.	Offset (Fo)
3.00 dB	180000 kHz
20.0 dB	210000 kHz
60.0 dB	320000 kHz



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ANTENNA DHS 15 GHz Backhaul Antenna

Nomenclature : (U) DHS 15 GHz Backhaul Antenna
Antenna Code : Linear
Manufacturer : (U) ANDREW CORP
Model Name : (U) VHLPX4-15
NTIA Approval Status : (U) Unapproved
Date/Time Last Mod. : 4/3/2008 11:37:44 AM (GMT)
Coordination ID : (U) J/F 12
Lower Freq. Limit : (U) 14250 MHz
Upper Freq. Limit : (U) 15350 MHz
Polarization : (U) Horizontal and Vertical
Main Beam Gain : (U) 43.1 dBi
Atten. Rel/Act : (U) Relative dB
Horz. Beamwidth : (U) 1.20 degrees
Vert. Beamwidth : (U) 1.20 degrees

Line Diagram: TRuepoint 5215G

