

INSTRUMENT SPECIALTIES CO., INC. - WORLD COMPLIANCE CENTER			
ELECTROMAGNETIC COMPATIBILITY (EMC) TEST REPORT FOR Harris Corporation EUT: Local Area Augmentation System (LAAS)	<i>Document No.</i>	<i>Revision</i>	<i>Issue Date</i>
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	<i>Purchase Order No.</i>	<i>Page</i>	
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10.7 RE02 Test Method

10.7.1 Purpose of Test

The testing was performed as described below to verify compliance of the EUT in accordance with MIL-STD-461C Part 2 for class A1c equipment. This test is performed to assure that radiated emissions from the EUT do not exceed the required specification limits. The test was performed according to paragraph 17 of MIL-STD-461C, Radiated Emissions Measurements Method RE02.

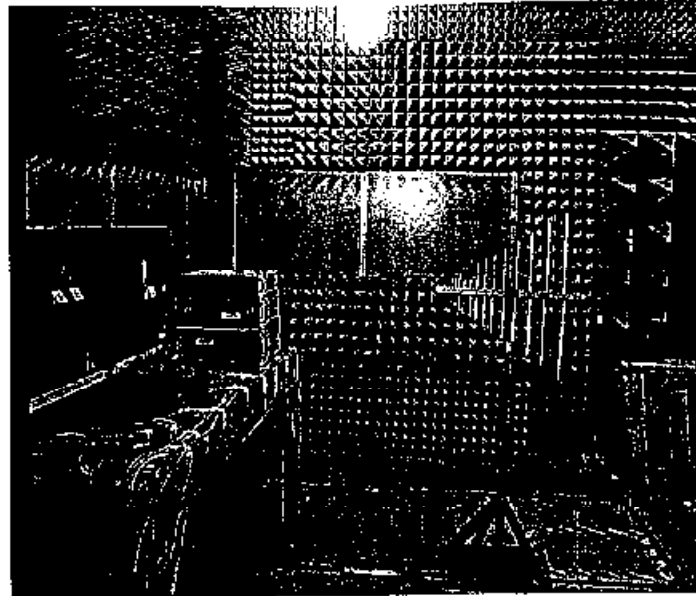
10.7.2 Test Procedure

Radiated emission measurements were made using the HP receiver system to scan the frequency range from 14 kHz to 10 GHz while recording the RF signal amplitude versus frequency. The EMCO active rod (bonded to the ground plane with a copper sheet 24 inches wide) was used to measure the frequency range from 14 kHz to 30 MHz. A biconical antenna was used in both vertical and horizontal polarization to measure from 30 MHz to 200 MHz. A log periodic antenna was used from 200 MHz to 1 GHz and a double ridge waveguide was used from 1 to 10 GHz. All antennas were positioned 1 meter from the EUT. The resultant levels were plotted by a digital plotter and presented relative to the specification limits shown in MIL-STD-461C. The receiver and transmitter were tested together using 120 VAC voltage. The transmitter was operating at 113 MHz with the full load directly injected into the receiver through an attenuator.

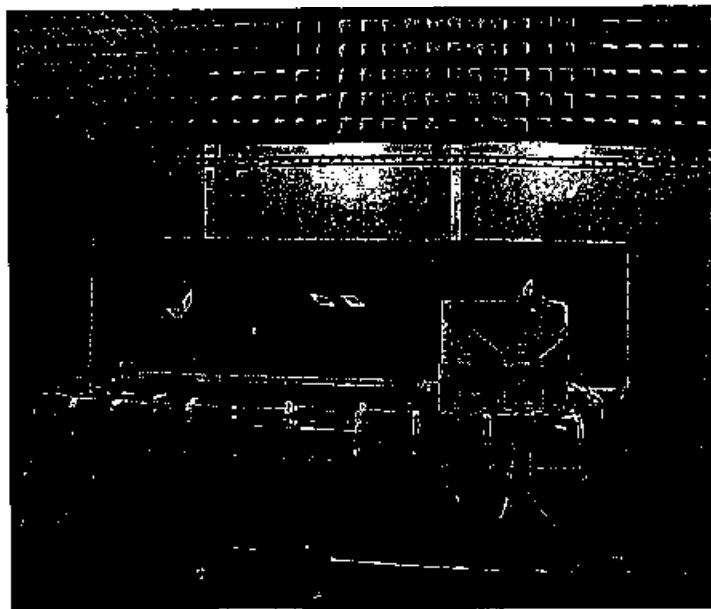
10.7.5 Test Equipment for: RE02

Mfgr./Model	Description	Serial	Calibration Due
HP/8572A	(100 Hz - 22 GHz) EMI receiver sys #1	3010A01163	9/29/00
EMO/3301B	41 in. Active Rod (30 Hz - 50 MHz) dipole	2645	1/21/01
EMO/3109	(2 kW), (20 - 300 MHz) biconical	2408	9/3/00
EMO/314E	(0.2 - 1 GHz) log periodic	0248	9/1/00
EMO/3115	(1-18 GHz) Double Ridge Waveguide	2485	10/11/00
HP/8449B	(1 - 26.5 GHz) RF amplifier	3D08A00373	9/29/00
SEC/6512-106R	10µF Power Line Feedthru Cap	:71,172	Calibration Not Required

FILE 6

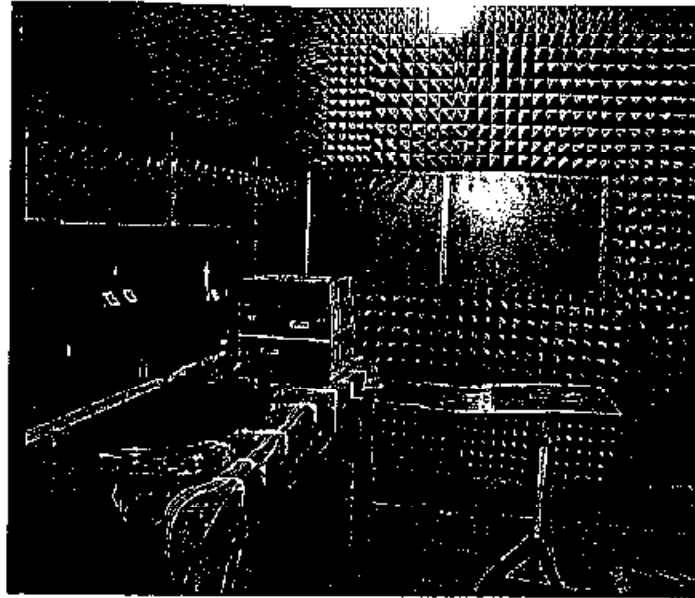


RE02 200 - 1000 MHz

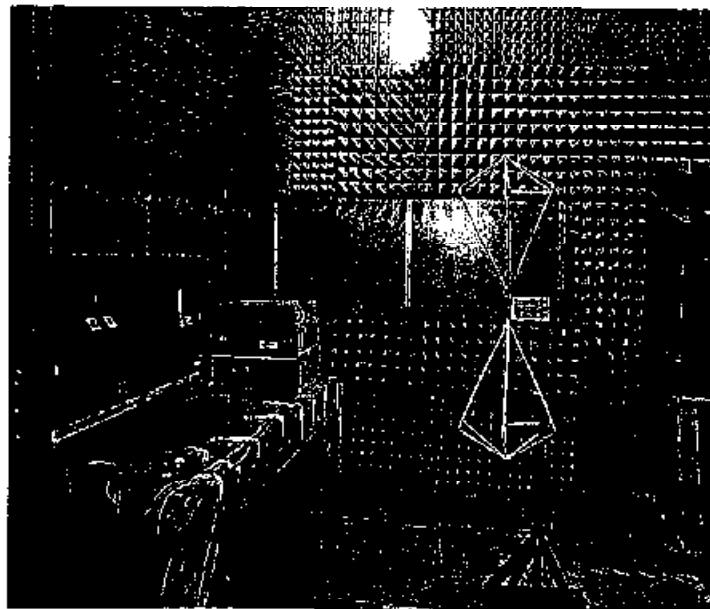


RE02 1 - 10 GHz

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RE02 14 kHz - 30 MHz



RE02 30 - 200 MHz

WORLD COMPLIANCE CENTER
 TEST SETUP TABLE Narrowband Broadband

Library File : MIL-STD 461C RE02 0.014 30 MHz

Display Title : MIL-STD 461C PART 2 RE02
 Units Label : dBuV/m dBuV/m/MHz
 Disp Ref Lvl (dB): 80 120
 Test Type : NB/BB (auto BB discrimination)
 Freq Uncert. (%) : 1
 Min Swp Time/Oct : 3

Range 1 of 2

Start Freq(MHz): .014
 Stop Freq (MHz): 1
 Transducer : 3301B ROD S/N 2645 30 Jan 00
 Gain/Loss : ISC CABLE 134 AND 158
 SA Input : LEFT LEFT
 Presel/Input3 : LEFT LEFT
 Quasi-Peak Bw : BYPASS BYPASS
 SA Res Bw (Hz) : 3000 3000
 Video Bw (Hz) : 300 30000
 Ref. Lvl (dBuV): 75 75
 Int Atten (dB) : 10 10
 Presel Atten : 0 0
 Ext Atten (dB) : 0 0
 # Setups : 1
 # Sweeps/Setup : 1
 Msg,Sub,Cont : MESSAGE
 Line #1 : CONNECT ACTIVE MONOPOLE ANTENNA
 Line #2 : TO LEFT INPUT OF PRESELECTION.

Range 2 of 2

Stop Freq (MHz): 30
 Transducer : 3301B ROD S/N 2645 30 Jan 00
 Gain/Loss : ISC CABLE 134 AND 158
 SA Input : LEFT LEFT
 Presel/Input3 : LEFT LEFT
 Quasi-Peak Bw : BYPASS BYPASS
 SA Res Bw (Hz) : 30000 30000
 Video Bw (Hz) : 3000 300000
 Ref. Lvl (dBuV): 75 75
 Int Atten (dB) : 10 10
 Presel Atten : 0 0
 Ext Atten (dB) : 0 0
 # Setups : 1
 # Sweeps/Setup : 1
 Msg,Sub,Cont : MESSAGE
 Line #1 : CHANGE LISK
 Line #2 :

Limit #1 Label : NARROWBAND BROADBAND
 Limit #2 Label : NONE NONE
 Limit #3 Label : NONE NONE

----- Test Setup Table Notes -----

NOTE:

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EG&I COMPLIANCE CENTER
TEST SETUP TABLE Narrowband Broadband

Library File : 461C PART2 REC2 CURVE 2 30-200MHz

Display Title : MIL-STD 461C PART 2 REC2
Units Label : dBuV/m dBuV/m/MHz
Disp Ref Lvl (dB): 80 120
Test Type : NB/BB (auto BB discrimination)
Freq Uncert. (%) : 1
Min Swp Time/Oct : 3

Range 1 of 1

Start Freq(MHz): 30
Stop Freq (MHz): 200
Transducer : EMCO 3109/2108 (1m) 3 Sep 00
Gain/Loss : CABLES 41 & 184
SA Input : RIGHT RIGHT
PreSel/Input3 : RIGHT RIGHT
Quasi-Peak Bw : BYPASS BYPASS
SA Res Bw (Hz) : 100000 100000
Video Bw (Hz) : 10000 1.E+6
Ref. Lvl (dBuV): 75 75
Int Atten (dB) : 0 0
PreSel Atten : 0 0
Ext Atten (dB) : 0 0
Setups : 1
Sweeps/Setup : 1
Msg,Sub,Cont : MESSAGE
 Line #1 : CONNECT BICONICAL ANTENNA TO
 Line #2 : RIGHT INPUT OF PRESELECTION.

Limit #1 Label : NARROWBAND BROADBAND
Limit #2 Label : NONE NONE
Limit #3 Label : NONE NONE

----- Test Setup Table Notes -----

NOTE:

WORLD COMPLIANCE CENTER
 TEST SETUP TABLE Narrowband Broadband

 Library File : MIL-STD461C PART 2 REQS 200M 10Hz

Display Title : MIL-STD 461C PART 2 REQS
 Units Label : dBuV/m dBuV/m/MHz
 Disp Ref Lvl (dB): 90 120
 Test Type : NB/BB (auto BB discrimination)
 Freq Uncert. (%) : 1
 Min Swp Time/Oct : 3

Range 1 of 1

Start Freq(MHz): 200
 Stop Freq (MHz): 1000
 Transducer : EMCO 3146/0248 @ 1m 1 SEPT 90
 Gain/Loss : CABLES 41 & 184
 SA Input : RIGHT RIGHT
 Presel/Input3 : RIGHT RIGHT
 Quasi-Peak Bw : BYPASS BYPASS
 SA Res Bw (Hz) : 300000 300000
 Video Bw (Hz) : 30000 3.E+6
 Ref. Lvl (dBuV) : 75 75
 Int Atten (dB) : 0 0
 Presel Atten : 0 0
 Ext Atten (dB) : 0 0
 # Setups : 1

Sweeps/Setup : 1
 Msg,Sub,Cont : MESSAGE
 Line #1 : CONNECT LOG PERIODIC ANTENNA TO
 Line #2 : RIGHT INPUT OF PRESELECTOR.

Limit #1 Label : NARROWBAND BROADBAND
 Limit #2 Label : NONE NONE
 Limit #3 Label : NONE NONE

----- Test Setup Table Notes -----

NOTE:

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TEST SETUP TABLE

Library File : MIL-STD 461C PART 2 RE02 1-100Kz

Display Title : MIL-STD 461C PART 2 RE02
Units Label : dBuV/m
Disp Ref Lvl (dB): 100
Test Type : PEAK
Freq Uncert. (%): 1
Min Swp Time/Oct : 3

Range 1 of 3

Start Freq(MHz): 1000
Stop Freq (MHz): 2000
Transducer : EMCO 3115/2485 HORN @1m 11 Oct
Gain/Loss : PREAMP/LOW LOSS #338 #339 #331
SA Input : RIGHT
Presel/Input3 : RIGHT
Quasi-Peak Bw : BYPASS
SA Res Bw (Hz): 10000
Video Bw (Hz): 10000
Ref. Lvl (dBuV): 80
Int Atten (dB): 10
Presel Atten : 0
Ext Atten (dB): 0
Setups : 1
Sweeps/Setup : 1
Msg,Sub,Cont : MESSAGE
Line #1 : CONNECT ANTENNA TO RP8449B AND
Line #2 : PRESELECTOR RIGHT INPUT.

Range 2 of 3

Stop Freq (MHz): 5750
Transducer : EMCO 3115/2485 HORN @1m 11 Oct
Gain/Loss : PREAMP/LOW LOSS #338 #339 #331
SA Input : RIGHT
Presel/Input3 : BYPASS
Quasi-Peak Bw : BYPASS
SA Res Bw (Hz): 100000
Video Bw (Hz): 100000
Ref. Lvl (dBuV): 80
Int Atten (dB): 10
Presel Atten : 0
Ext Atten (dB): 0
Setups : 1
Sweeps/Setup : 1
Msg,Sub,Cont : CONTINUE

Range 3 of 3

Stop Freq (MHz): 10000
Transducer : EMCO 3115/2485 HORN @1m 11 Oct
Gain/Loss : PREAMP/LOW LOSS #338 #339 #331
SA Input : RIGHT
Presel/Input3 : BYPASS
Quasi-Peak Bw : BYPASS
SA Res Bw (Hz): 30000
Video Bw (Hz): 30000
Ref. Lvl (dBuV): 80
Int Atten (dB): 10

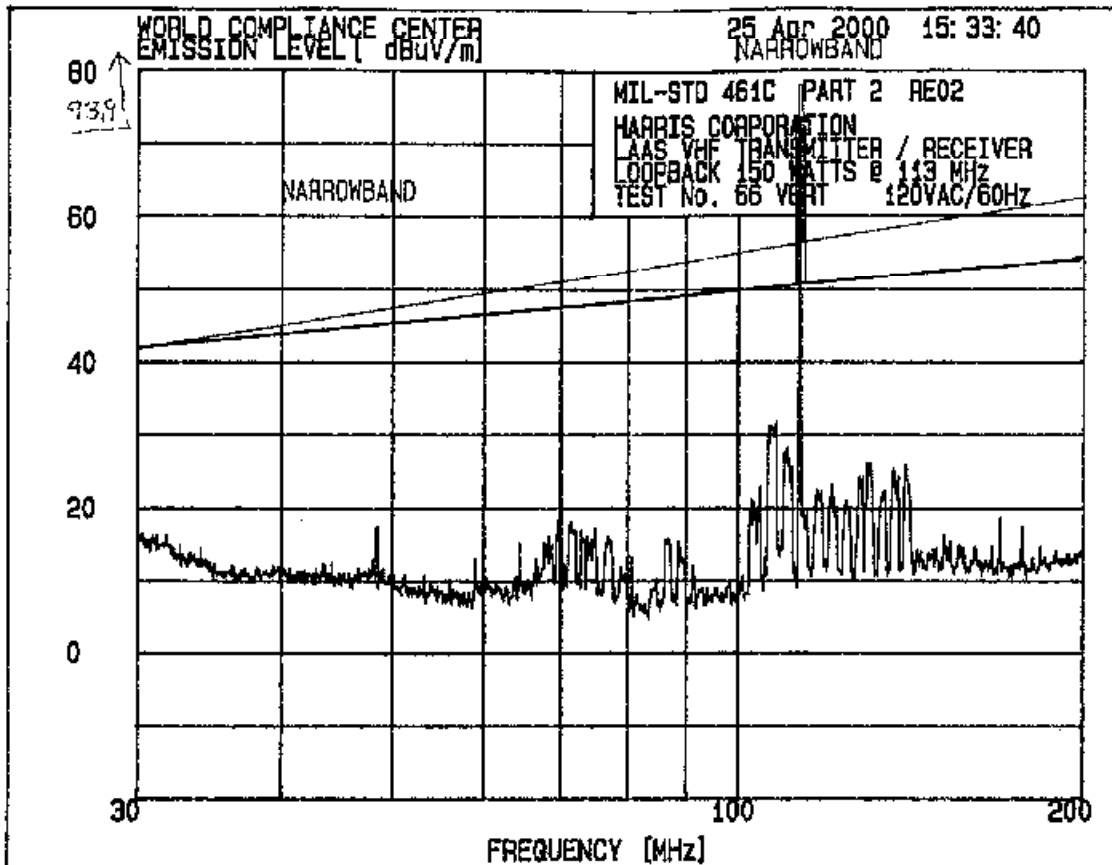
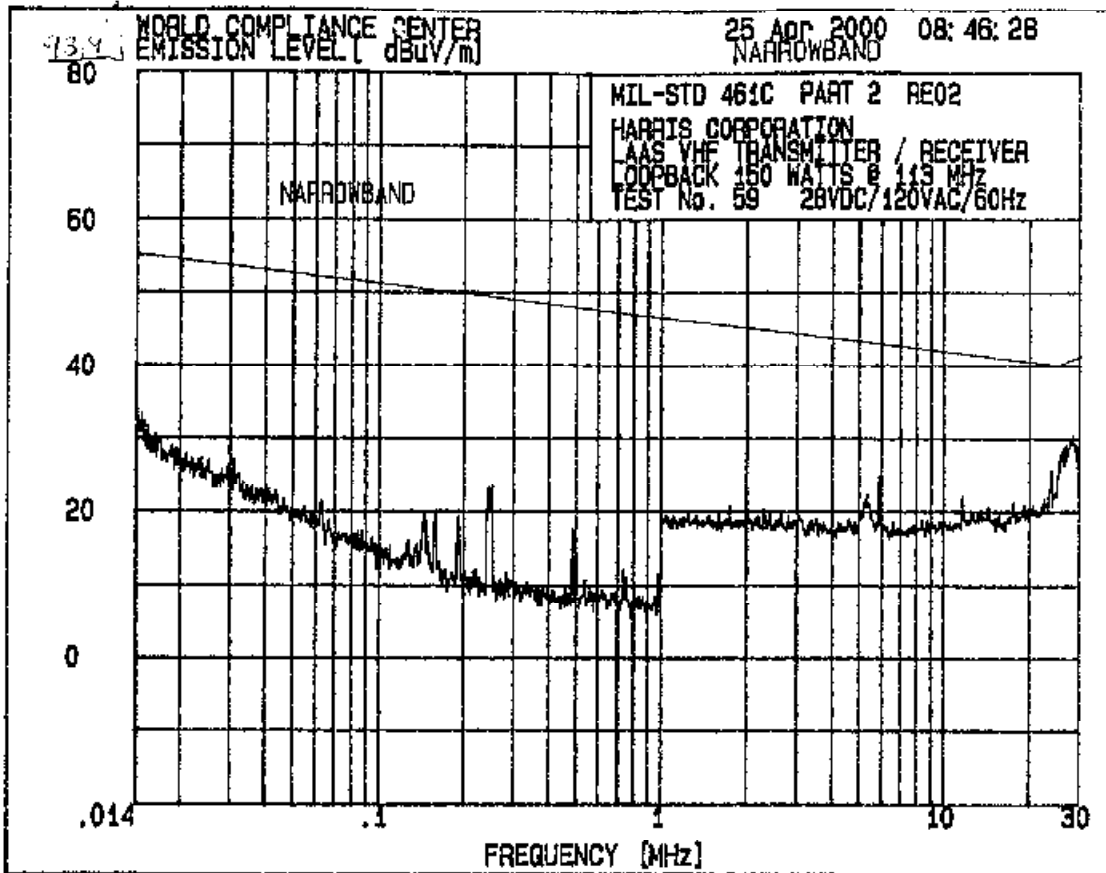
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Presel Atten : 0
Ext Atten (dB): 0
Setups : 1
Sweeps/Setup : 1
Msg,Sub,Cont : CONTINUS

Limit #1 Label : NARROWBAND
Limit #2 Label : NONE
Limit #3 Label : NONE

----- Test Setup Table Notes -----

NOTE:



INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

TEST No.: 59

REPORT No.: 111147-B DATE: 25 APRIL 2000
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 14kHz - 30MHz SENSOR LOCATION: VERT
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"
 TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES
 TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER ARE
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER 25 Apr 2000 08:46:28

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2. LAAS XMITR/RCVR MIL-STD 12 JAN 00
 2.4 MIL-STD 461C RE02 0.014-30 MHz

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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 59 28VDC/120VAC/60Hz

23 highest NB Peaks
 peak criteria = 1 dB

Limit = 93.7 dB μ V/m

PEAK#	FREQ (MHz)	(dBuV/m)	DELTA
1	28.43	30.5	23 dB
2	26.95	29.1	
3	26.34	28.6	
4	24.02	25.7	
5	5.911	24.8	
6	22.59	21.7	
7	11.69	22.1	
8	17.68	21.2	
9	20.61	20.7	
10	19.24	20.8	
11	19.83	20.3	
12	14.38	20.5	
13	5.351	22.3	
14	13.63	20.1	22 dB
15	.01422	33.8	
16	15.76	19.7	
17	12.62	19.8	
18	.01466	33.3	
19	.015	32.3	
20	.01547	31.7	
21	9.726	18.6	
22	10.03	18.6	
23	8.409	18.7	

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INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

REPORT No.: 111147-B DATE: 25 APRIL 2000 TEST No.: 66
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 30MHz -- 200MHz SENSOR LOCATION: VERT
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"

TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES
 TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER AR
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER	25 Apr 2000 15:33:40
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2. LAAS XMITR/RCVR MIL-STD 12 JAN 00
 2.7 461C PART2 RE02 CURVE 2 30-200MHz

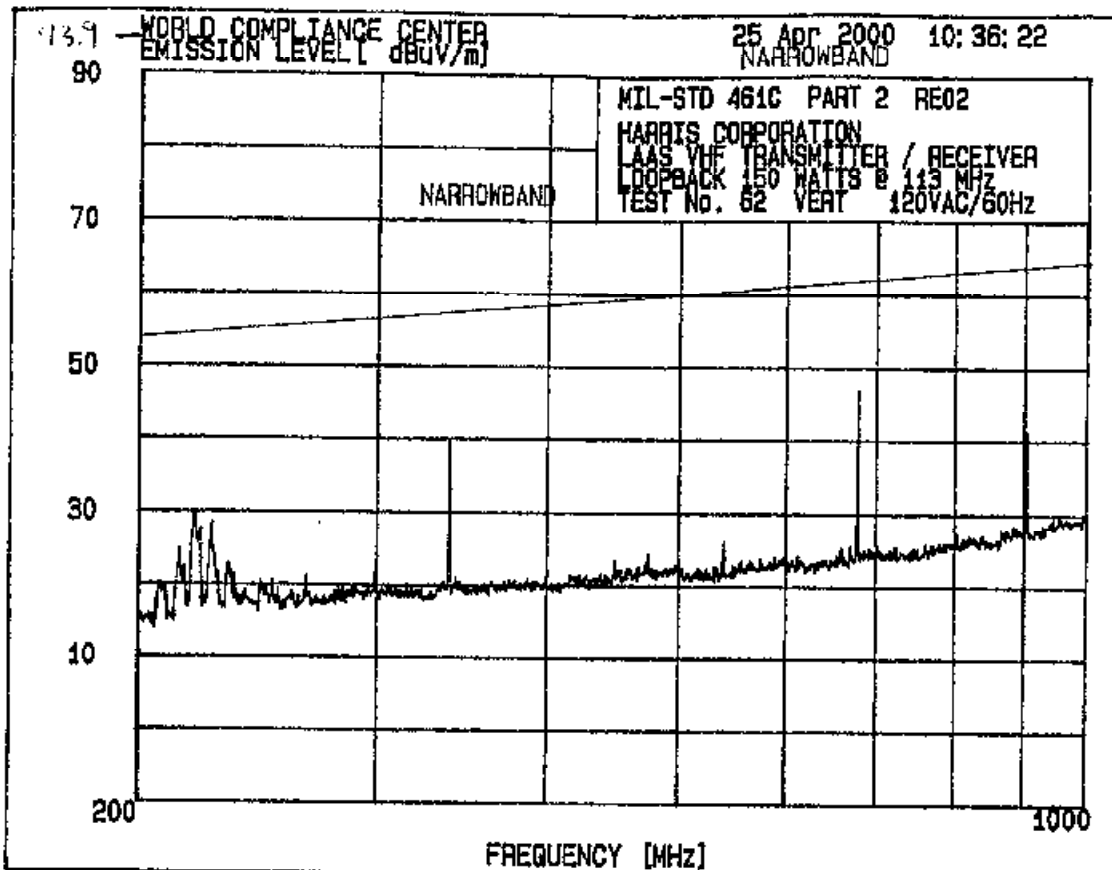
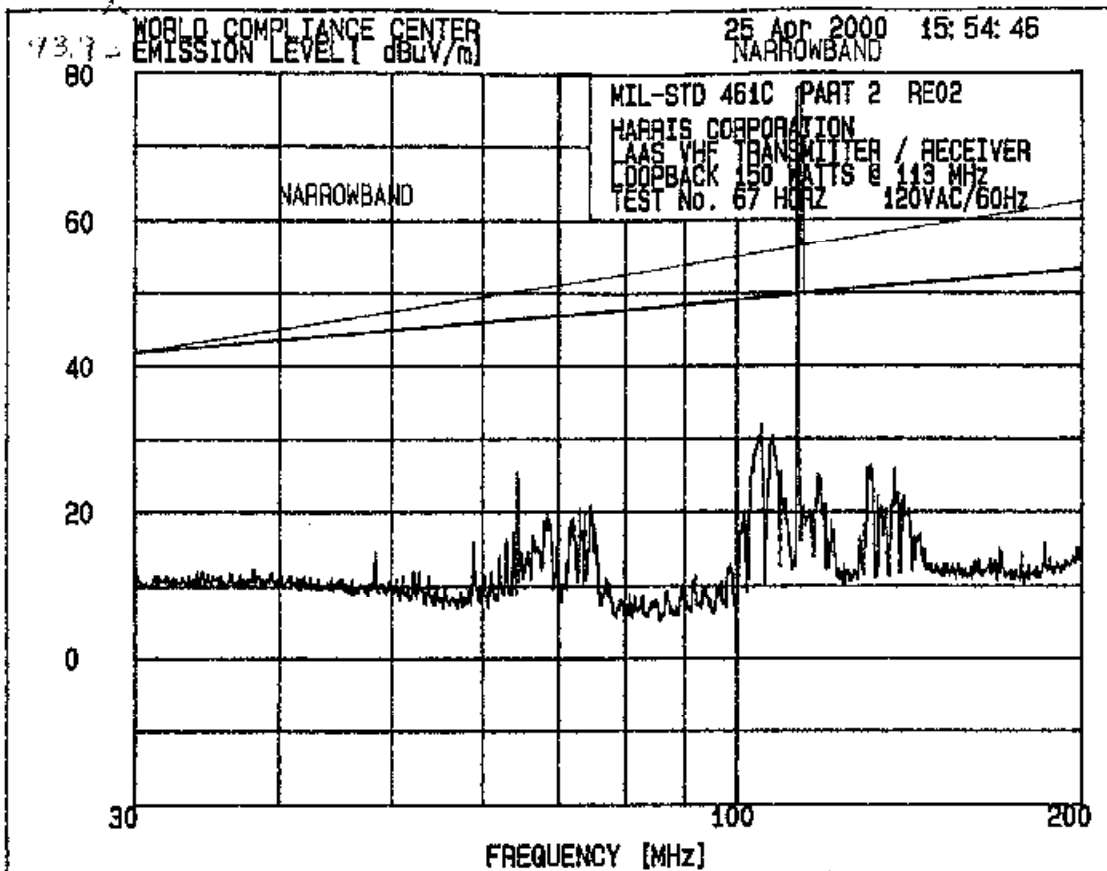
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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 66 VERT 120VAC/60Hz

23 highest NB Peaks
 peak criteria = 1 dB limit = 93.9 dB μ V/m

PEAK#	FREQ (MHz)	(dBuV/m)	DELTA
1	113.05	74.1	f ₀
2	108.03	31.7	1.2 dB
3	106.8	31.2	
4	106.4	30.3	
5	30.92	16.1	
6	31.22	16.2	
7	31.76	16	
8	110.51	28.3	
9	32.67	14.8	
10	109.88	27.5	
11	34.06	14.4	
12	32.79	13.6	
13	33.3	13.8	
14	33.61	13.6	
15	48.55	17.4	
16	111.56	25.7	
17	34.71	12.5	
18	34.98	12.4	
19	129.83	26.2	
20	130.57	26.2	
21	36.19	12.1	
22	36.33	11.8	
23	36.47	11.6	

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INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

REPORT No.: 111147-B DATE: 25 APRIL 2000 TEST No.: 67
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 30MHz - 200MHz SENSOR LOCATION: HORZ
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"
 TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES

TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER ARE
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER 25 Apr 2000 15:54:46

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2. LAAS XMITR/RCVR MIL-STD 12 JAN 00
 2.7 461C PART2 RE02 CURVE 2 30-200MHz

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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 67 HORZ 120VAC/60Hz

23 highest NB Peaks
 peak criteria = 1 dB

Limit = 93.7 dBµV/M

PEAK#	FREQ (MHz)	(dBµV/m)	DELTA
1	113.05	69	
2	105	32	fe
3	64.51	26.5	62 dB
4	107.41	30.5	
5	109.26	26.6	
6	74.79	20.8	
7	31.28	11.3	
8	31.4	11.3	
9	73.11	20.4	
10	32	11.4	
11	68.55	19.6	
12	34.06	11.9	
13	130.82	26.4	
14	117.87	25.2	
15	34.39	11.8	
16	33.49	11.3	
17	34.78	11.6	
18	130.07	25.9	
19	68.16	18.8	
20	68.81	18.8	
21	118.31	24.6	
22	73.95	19.5	
23	35.11	11.3	

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INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

REPORT No.: 111147-B DATE: 25 APRIL 2000 TEST No.: 62
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 200MHz - 1000MHz SENSOR LOCATION: VERT
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"
 TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES
 TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER ARE
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER 25 Apr 2000 10:36:22

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2. LAAS XMITR/RCVR MIL-STD 12 JAN 00
 2.5 MIL-STD461C PART 2 RE02 200M-1GHz

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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 62 VERT 120VAC/60Hz

23 highest NB Peaks
 peak criteria = 1 dB Limit = 93.9 dB μ V/M

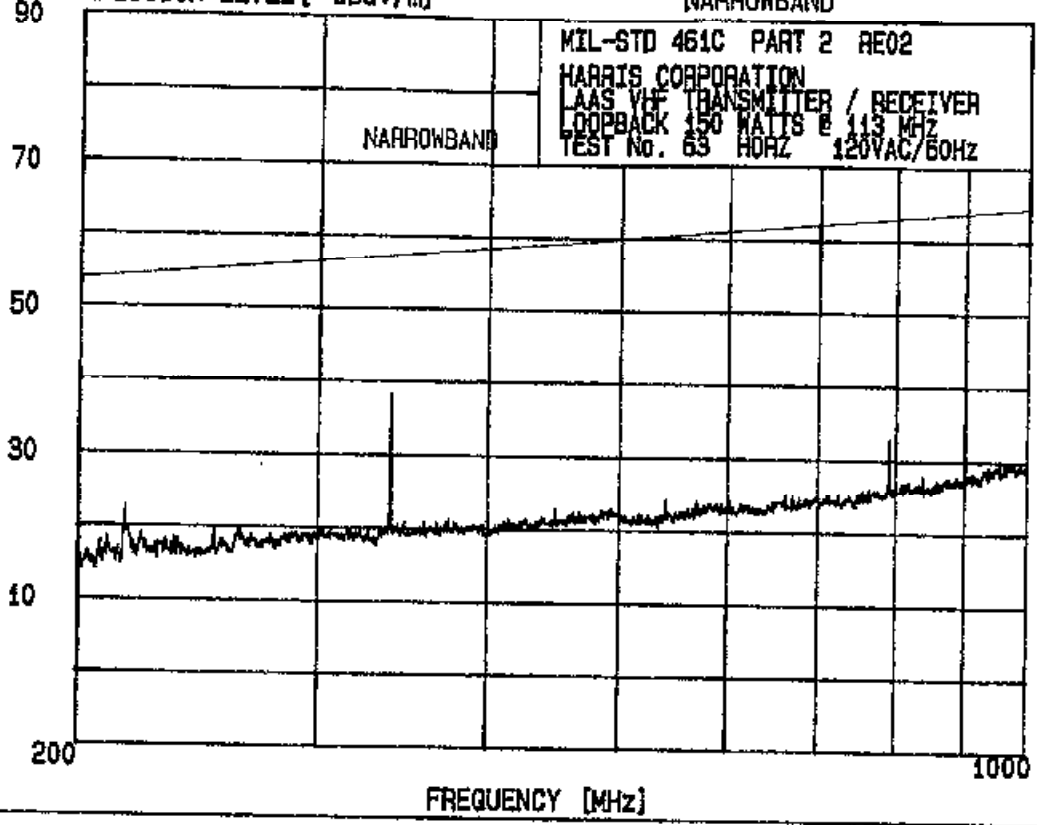
PEAK#	FREQ (MHz)	(dBuV/m)	DELTA
1	678.76	47	47 dB
2	339.44	39.9	
3	903.67	41.3	
4	220.61	29.8	
5	227.09	28.6	
6	222.75	27.7	
7	214.66	25	
8	233.38	23.1	
9	216.74	22.5	
10	215.7	22.3	
11	228.92	21.9	
12	234.89	21.7	
13	232.63	21.4	
14	236.02	21.4	
15	207.87	20.3	
16	208.87	20	
17	209.88	19.9	
18	266.7	21.4	
19	541.08	26.1	
20	246.49	20.7	
21	954.44	29.6	
22	251.7	20.7	
23	945.28	29.5	

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93.9

WORLD COMPLIANCE CENTER
EMISSION LEVEL (dBV/m)

25 APR 2000 10:52:32
NARROWBAND



INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

REPORT No.: 111147-B DATE: 25 APRIL 2000 TEST No.: 63
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 200MHz - 1000MHz SENSOR LOCATION: HORZ
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"
 TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES
 TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER ARE
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER 25 Apr 2000 10:52:32

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2. LAAS XMITR/RCVR MIL-STD 12 JAN 90
 2.5 MIL-STD461C PART 2 RE02 200M-1GHZ

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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 63 HORZ 120VAC/60Hz

23 highest NB Peaks
 peak criteria = 1 dB *limit = 93.9 dB μ V/m*

PEAK#	FREQ (MHz)	(dBuV/m)	DELTA
1	339.44	38.3	55 dB
2	790.77	32.9	
3	216.74	22.8	
4	952.91	30.2	
5	968.35	29.9	
6	962.15	29.7	
7	987.22	29.7	
8	936.2	29.2	
9	930.2	28.8	
10	837.9	28	
11	222.75	19	
12	209.88	18.6	
13	262.44	19.9	
14	899.32	28.2	
15	903.67	28.2	
16	912.43	28.3	
17	887.83	27.9	
18	251.7	19.4	
19	541.08	24.4	
20	817.93	27.1	
21	207.53	17.9	
22	856.97	27.3	
23	235.26	18.6	

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WORLD COMPLIANCE CENTER
EMISSION LEVEL [dBuV/m]

25 APR 2000 12:39:28

PEAK

MIL-STD 461C PART 2 RE02
HARRIS CORPORATION
LAAS VHF TRANSMITTER / RECEIVER
LOOPBACK 150 WATTS @ 113 MHZ
TEST No. 64 VERT 120VAC/60HZ

NARROWBAND

100
80
60
40
20
1000

10000

FREQUENCY [MHZ]

INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

REPORT No.: 111147-B DATE: 25 APRIL 2000 TEST No.: 64
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 1GHz - 10GHz SENSOR LOCATION: VERT
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"
 TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES
 TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER A:
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER 25 Apr 2000 12:39:28

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10. MIL-STD-461C PART 2 CLASS A1c
 10.2 461C PART 2 RE02 CURVE 2 1-10GHz

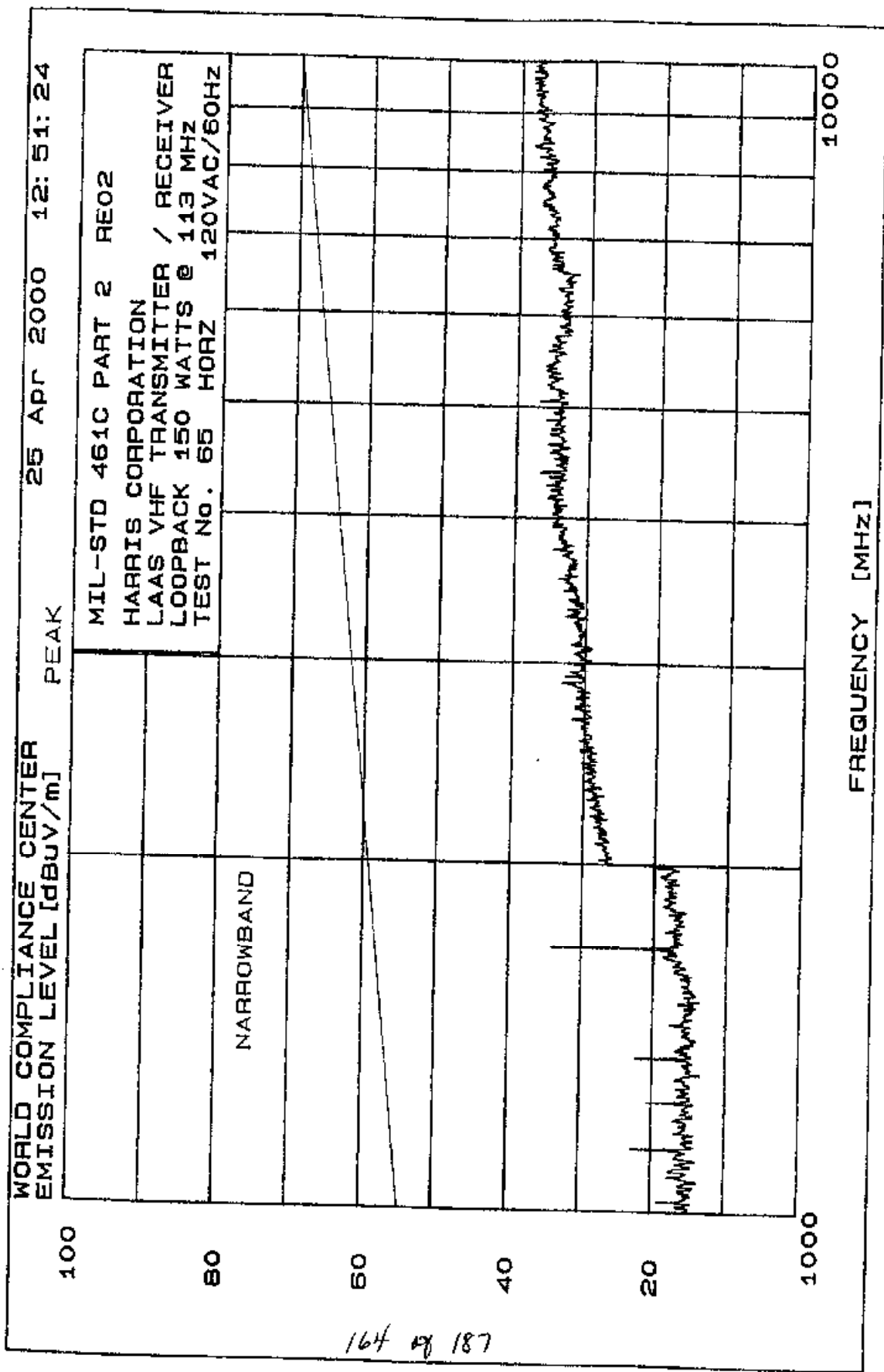
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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 64 VERT 120VAC/60Hz

23 highest Peaks
 peak criteria = 1 dB Limit = 93.7 dB μ V/m

PEAK#	FREQ (MHz)	(dB μ V/m)	DELTA
1	1134.9	35.9	
2	4003.1	36.3	78.6f
3	3129.7	34	
4	4030.8	35.5	
5	4124.6	35.3	
6	4289.1	35.5	
7	3592.9	34.2	
8	2726.2	32.3	
9	4511.8	35.5	
10	2809	32.4	
11	5096.7	36.4	
12	4153.2	34.9	
13	5410.9	36.6	59dB
14	3939.2	34.5	
15	4240.1	35	
16	4419.3	35.3	
17	2828.4	32.2	
18	5203.4	36.3	
19	3894.1	34.4	
20	4823	35.7	
21	3479	33.5	
22	3770.7	34	
23	4680.9	35.5	

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INSTRUMENT SPECIALTIES CO., INC
 WORLD COMPLIANCE CENTER
 TEST DATA

REPORT No.: 111147-B DATE: 25 APRIL 2000 TEST No.: 65
 TITLE OF TEST: MIL-STD 461C PART 2 CLASS A1c RE02
 CUSTOMER: HARRIS CORPORATION
 EUT DESCRIPTION: LAAS TRANSMITTER / RECEIVER SYSTEM
 TEST MODE: LOOPBACK 150 WATTS @ 113MHz
 SERIAL No.: SEE TEST PLAN
 FREQUENCY RANGE: 1GHz - 10GHz SENSOR LOCATION: HORZ
 INPUT POWER: 120VAC/60Hz TEMP: 71.0 f HUM: 32.8 % BAR: 29.92"
 TEST PERFORMED BY: EUGENE P. CLARKE SR.
 TEST RESULTS: COMPLIES
 TEST CONDITIONS: COPPER TABLE TOP ARRANGEMENT
 NOTE TRANSMITTER TO RECEIVER 50dB ATTENUATOR AND CONTROLLING COMPUTER /
 LOCATED OUTSIDE TESTING BOUNDARY IN SEPERATE SHIELDED ENCLOSURE.

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WORLD COMPLIANCE CENTER 25 Apr 2000 12:51:24

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10. MIL-STD-461C PART 2 CLASS A1c
 10.2 461C PART 2 RE02 CURVE 2 1-10GHz

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HARRIS CORPORATION
 LAAS VHF TRANSMITTER / RECEIVER
 LOOPBACK 150 WATTS @ 113 MHz
 TEST No. 65 HORZ 120VAC/60Hz

23 highest Peaks
 peak criteria = 1 dB LIMIT = 93.9 dB μ V/M

PEAK#	FREQ (MHz)	(dBuV/m)	DELTA
1	1697.3	34	
2	4388.9	36.6	
3	2881	33.1	
4	4162.8	35.5	
5	4279.3	35.7	
6	5050.1	36.8	57 dB
7	3762.1	34.6	
8	3939.2	34.8	
9	2921	32.7	
10	4348.7	35.4	
11	3966.4	34.7	
12	3543.6	33.9	
13	4040.1	34.8	
14	4230.3	35.1	
15	4638	35.6	
16	4867.6	35.9	
17	4115.1	34.7	
18	4096.3	34.6	
19	4563.9	35.3	
20	2682.7	31.7	
21	3840.7	34	
22	3292.2	32.8	
23	4735.1	35.3	

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