

Prepared (also subject responsible if other) EUS\IRLC Bryan McWatters		No.OWDTR-0007-E Exhibit 6		
Approved EUS\IRLC Bryan McWatters	Checked	Date 10-18-2000	Rev A	Reference

SECTION 1

RF POWER OUTPUT

2.1046_ The RF Power measured at the output terminals:

OWDTR-0007-E

2 Watts

Method: The measurement was made per TIA/EIA-603 using the following equipment::
A 50 ohm load is attached to the output terminal through a directional coupler. The power is measured on a HP436A power meter. Conducted and ERP measurements are shown on next page.

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EIRP Measurement

<u>ERICSSON EMC LAB - OPEN AREA TEST SITE</u>				
Customer Name:	Ericsson Inc	Contact Name:	Kevin Markey	
Lab Test Number:		FCC Identifier:	OWDTR-0007-E	
Date of Test:	July 7, 2000	UUT S/N:	T19-1011	
Test Range Temp:	72 Deg F	UUT Model:	J700P	
Test Range RH:	37 %	Description:		

TEST EQUIPMENT INFORMATION

EQUIPMENT TYPE	QC #	DESCRIPTION	FREQ RANGE	CAL DATE	CAL DUE
Transducer (30-200MHz)	N/A				
Transducer (200-1000MHz)	E0720	EMCO Model 3146 Log Periodic	200MHz - 999.999MHz	12/14/99	12/14/00
Transducer (1-18GHz)	N/A				
Test Receiver	E02520	Rohde & Schwarz Model ESMI	20Hz - 26.5GHz	7/12/99	7/12/00
RF Cable (Mast)	Cable 1	Insulated Wire Model NPS-3053-4200-NPS			

EIRP Measurements

	Test Freq # 1	Test Freq # 2	Test Freq # 3	Test Freq # 4
Fout	899.0000 MHz			
Conducted Pout	33.0 dBm			
EIRP	33.09 dBm			
EDRP	30.95 dBm			

Tested by:	Rick Simpkins and John Barnard

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SECTION 2

MODULATION CHARACTERISTICS

Ref. Par. 2.1047 the frequency and amplitude response to audio inputs measured per TIA/EIA 603 are shown on the following sheet

Page 4&5 Audio Frequency Response(12.5 kHz) table and plot

Page 6&7 Modulation Characteristics (12.5 kHz) table and plot

Equipment used was:

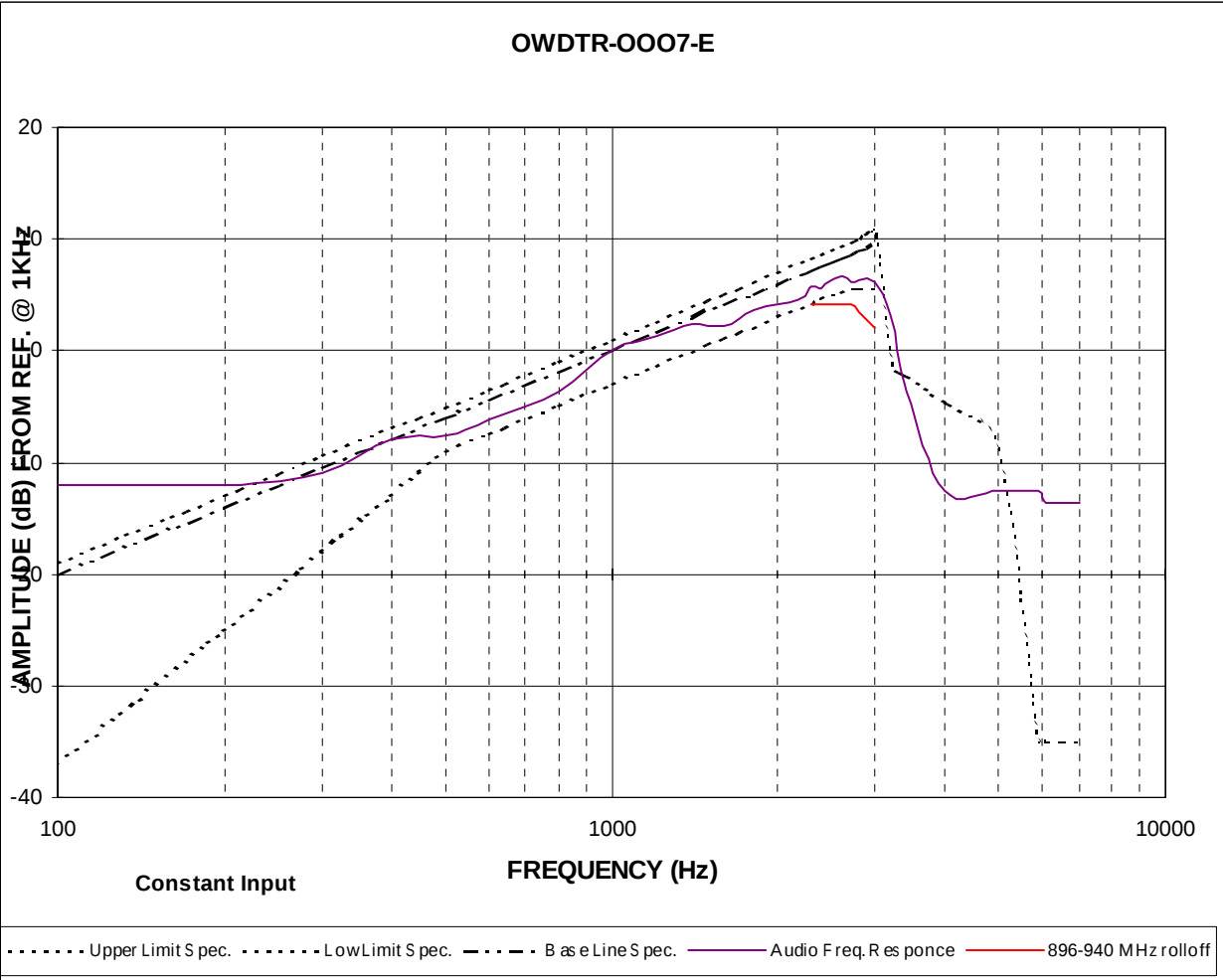
Marconi Instruments Ltd. FM/AM Modulation Meter TF2300B
Hewlett Packard Audio Signal Generator 204D
Hewlett Packard Distortion Analyzer 333A

At those modulation frequencies at which the transmitter is not capable of producing 30% of system deviation, audio response is calculated from measurement of input voltage producing a lesser deviation.

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Audio Frequency Responce				
OWDTR-0007-E 12.5 KHz Channel Spacing				
Enter Data				
FREQ	AFR	UPPER SPEC	BASE LINE	LOWER SPEC
100	-12.00	-19.00	-20.00	-37.00
200	-12.00	-12.98	-13.98	-24.96
300	-11.00	-9.46	-10.46	-17.92
400	-8.00	-6.96	-7.96	-12.92
500	-7.60	-5.02	-6.02	-9.02
600	-6.20	-3.44	-4.44	-7.44
800	-3.60	-0.94	-1.94	-4.94
1000	0.00	1.00	0.00	-3.00
1200	1.30	2.58	1.58	-1.42
1400	2.40	3.92	2.92	-0.08
1600	2.20	5.08	4.08	1.08
1800	3.60	6.11	5.11	2.11
2000	4.18	7.02	6.02	3.02
2200	4.70	7.85	6.85	3.85
2300	5.80	8.23	7.23	4.23
2400	5.60	8.60	7.60	4.60
2500	6.30	8.96	7.96	4.96
2600	6.60	9.30	8.30	5.30
2700	6.10	9.63	8.63	5.63
2800	6.30	9.94	8.94	5.63
3000	6.10	10.54	9.54	5.63
3200	3.00	-1.20		
3400	-3.60	-2.20		
4000	-12.50	-4.50		
5000	-12.60	-8.90		
5900	-12.50	-35.00		
6100	-13.60	-35.00		
7000	-13.6	-35.00		
10000				-35
FORMULA AUDIO FREQ. RESPONCE				
20 LOG 10{ DEV FREQ/ DEV REF}				

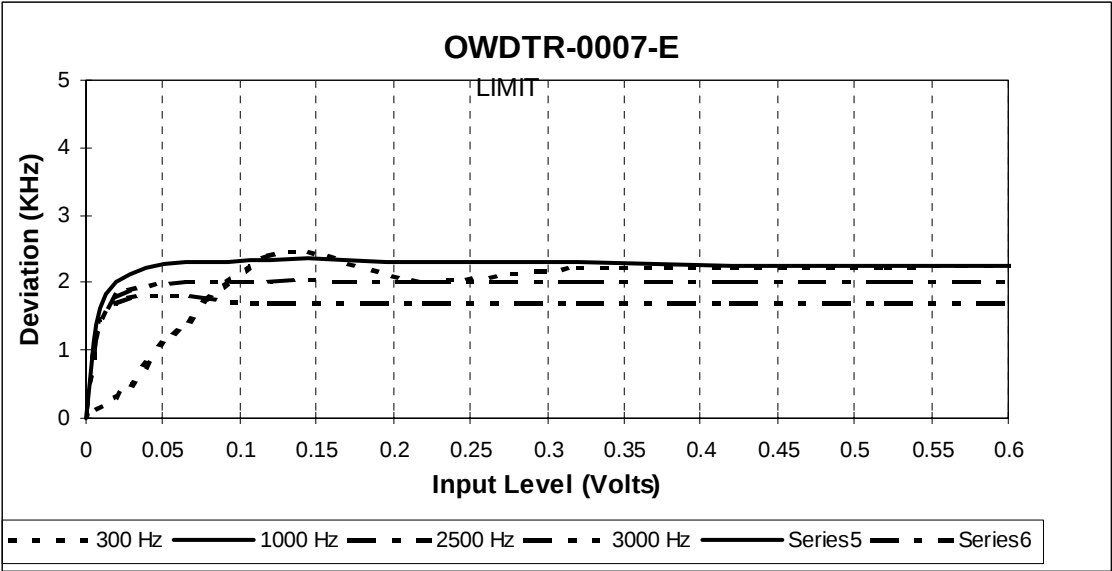
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	A	B	C	D	E	F	G	H
1	Modulation Limiting Curves							
2	OWDTR -0007-E	12.5 KHz CH SPC						
3								
4	300 Hz	1000Hz	2500 Hz	3000Hz				
5	LEVEL	DEV	LEVEL	DEV	LEVEL	DEV	LEVEL	DEV
6	0	0	0	0	0	0	0	0
7	0.02	0.34	0.02	2	0.02	1.78	0.02	1.7
8	0.12	2.4	0.12	2.34	0.12	2	0.12	1.7
9	0.22	2	0.22	2.3	0.22	2	0.22	1.7
10	0.32	2.23	0.32	2.3	0.32	2	0.32	1.7
11	0.42	2.224	0.42	2.24	0.42	2	0.42	1.7
12	0.52	2.23	0.52	2.24	0.52	2	0.52	1.7
13	0.62	2.24	0.62	2.24	0.62	2	0.62	1.7
14	0.72	2.23	0.72	2.24	0.72	2	0.72	1.7
15	0.82	2.23	0.82	2.24	0.82	2	0.82	1.7
16	0.92	2.22	0.92	2.24	0.92	2	0.92	1.7
17	1.02	2.22	1.02	2.24	1.02	2	1.02	1.7
18	1.12	2.24	1.12	2.24	1.12	2	1.12	1.7
19	1.22	2.22	1.22	2.24	1.22	2	1.22	1.7
20	1.32	2.24	1.32	2.24	1.32	2	1.32	1.7
21	1.42	2.24	1.42	2.24	1.42	2	1.42	1.7
22	1.52	2.24	1.52	2.24	1.52	2	1.52	1.7
23	1.62	2.24	1.62	2.24	1.62	2	1.62	1.7
24	1.72	2.22	1.72	2.24	1.72	2	1.72	1.7
25	1.82	2.24	1.82	2.24	1.82	2	1.82	1.7
26	1.92	2.24	1.92	2.24	1.92	2	1.92	1.7
27	2.25	2.24	2.25	2.24	2.25	2	2.25	1.7

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SECTION 3

OCCUPIED BANDWIDTH

Per 2.1049 the measurements were made per TIA/EIA 603.

Page	Description
10-11	12.5 kHz, 50 & 150 kHz spans, Voice
12-13	12.5 kHz, 50 & 150 kHz spans, 150 bps Voice
14-15	12.5 kHz, 50 & 150 kHz spans, 9600bps Voice and Data
16-17	12.5 kHz, 50 & 150 kHz spans, talkaround Voice
18-19	12.5 kHz, 50 & 150 kHz spans, 9600 bps talkaround Data andVoice.

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SECTION 3

OCCUPIED BANDWIDTH

(FOR 12.5 kHz CHANNELIZATION)

Method of Measurement Per 2.1049 Data on Occupied Bandwidth is presented in the form of a spectrum analyzer plot which illustrates the transmitter sidebands. A plot is taken of the carrier sideband modulated with a 2500 Hz tone at a level 16 dB greater than that required to produce 50 percent modulation. (The spectrum analyzer grid indicates the reference level of the carrier unmodulated in all exhibits.)

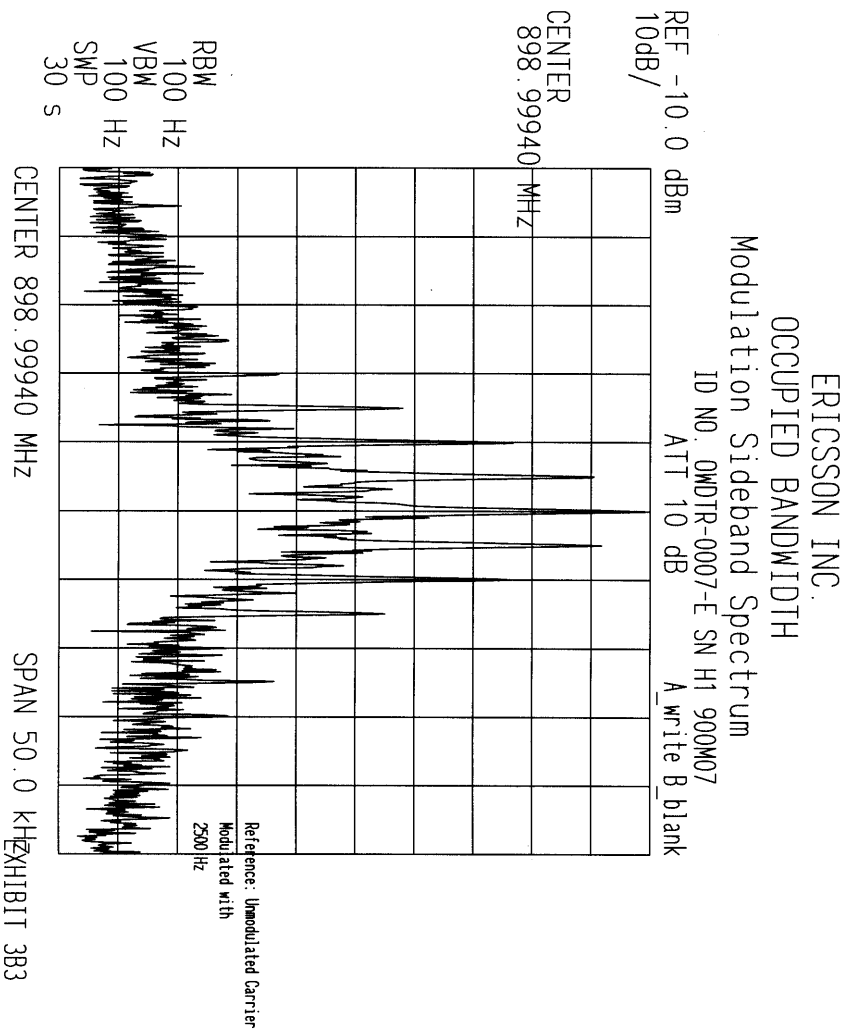
•Analog

	$B_n = 2M + 2DK$ where	$M = 3000 \text{ Hz}$
Telephony		$D = 2000 \text{ Hz}$
		$K = 1(\text{assumed})$
	$B_n = 10000$	
	Therefore, Emission Designator = 10K0F3E	

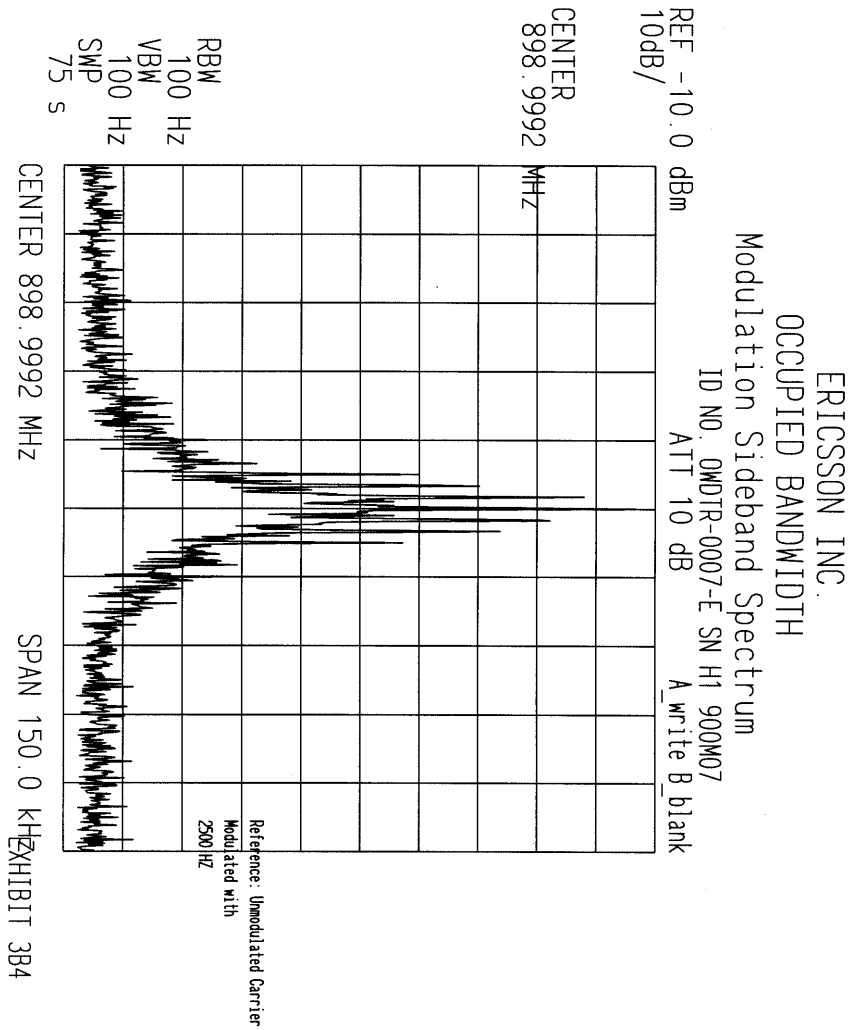
•Digital

	$B_n = 2(B/2) + 2DK$ where	$B = 9600 \text{ Hz}$
Data, Digital Voice		$D = 2100 \text{ Hz}$
		$K = 1(\text{assumed})$
	$B_n = 13800$	Exceeds 90.209 requirement of 13.6 kHz
	Measurements made with Advantest Spectrum Analyzer show 8.8 kHz maximum bandwidth occupied. Digital techniques employed by Comnet-Ericsson make a more efficient use of bandwidth than reflected by Carson's rule calculation.	
	Therefore, Emission Designator = 8K8F1D and 8K8F1E	

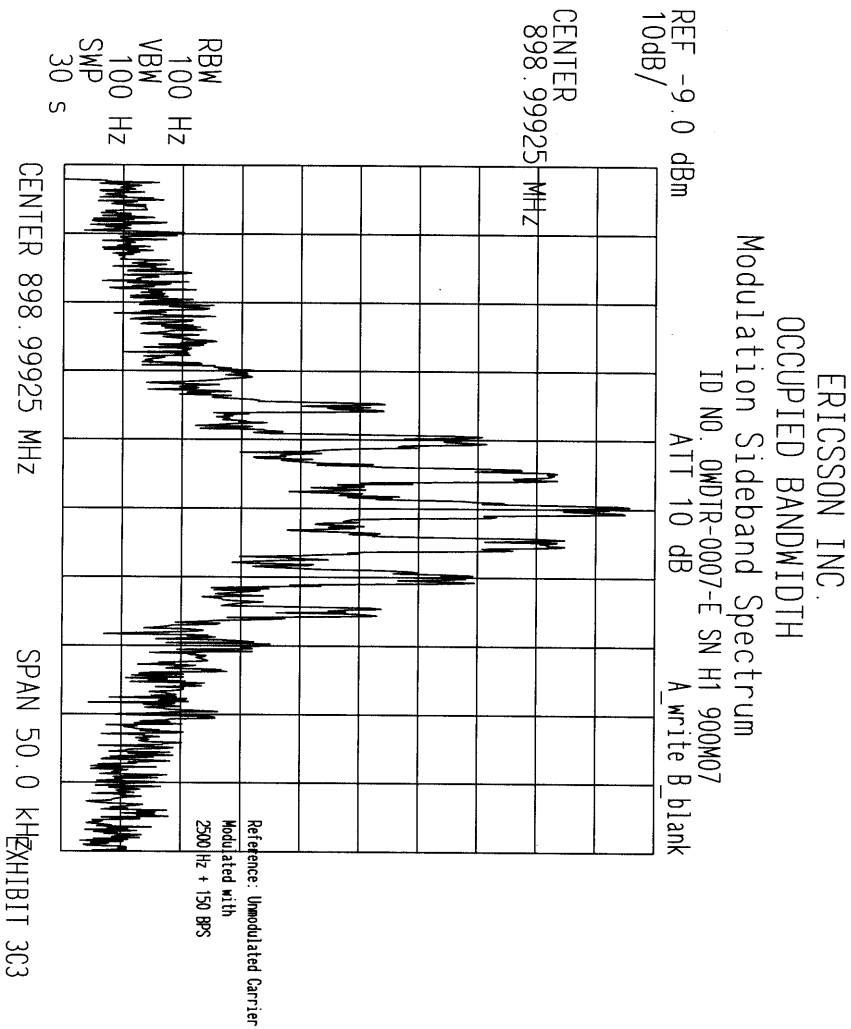
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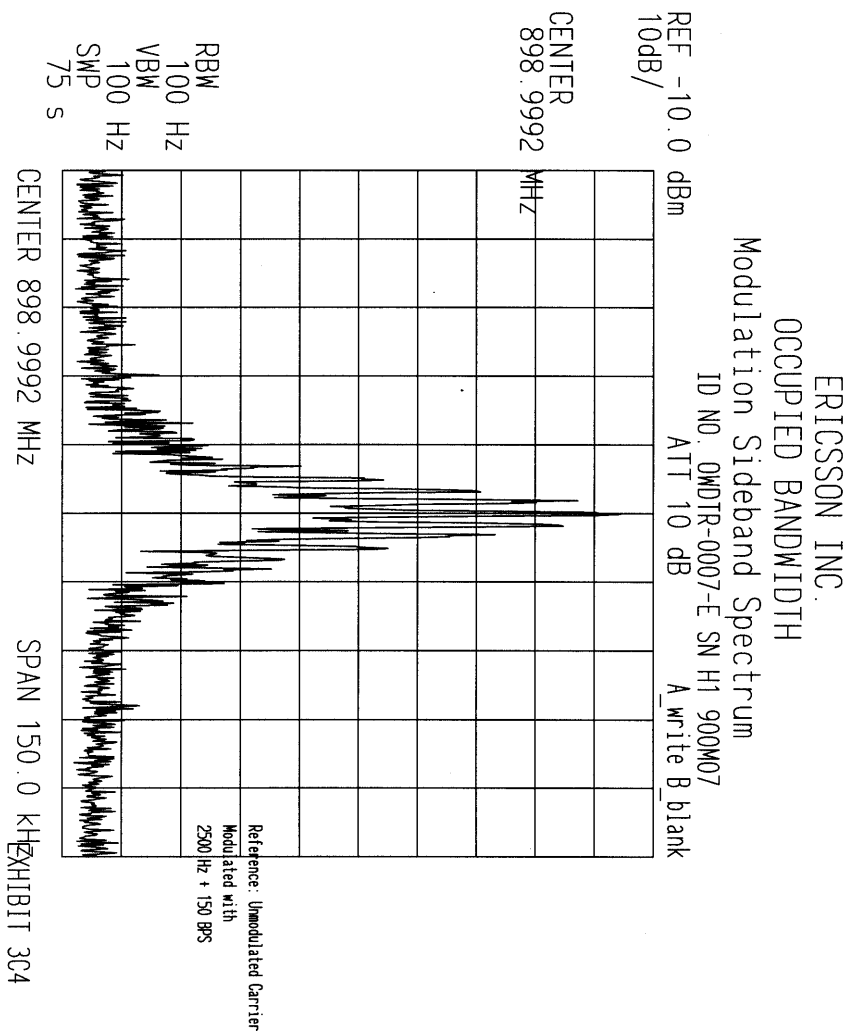
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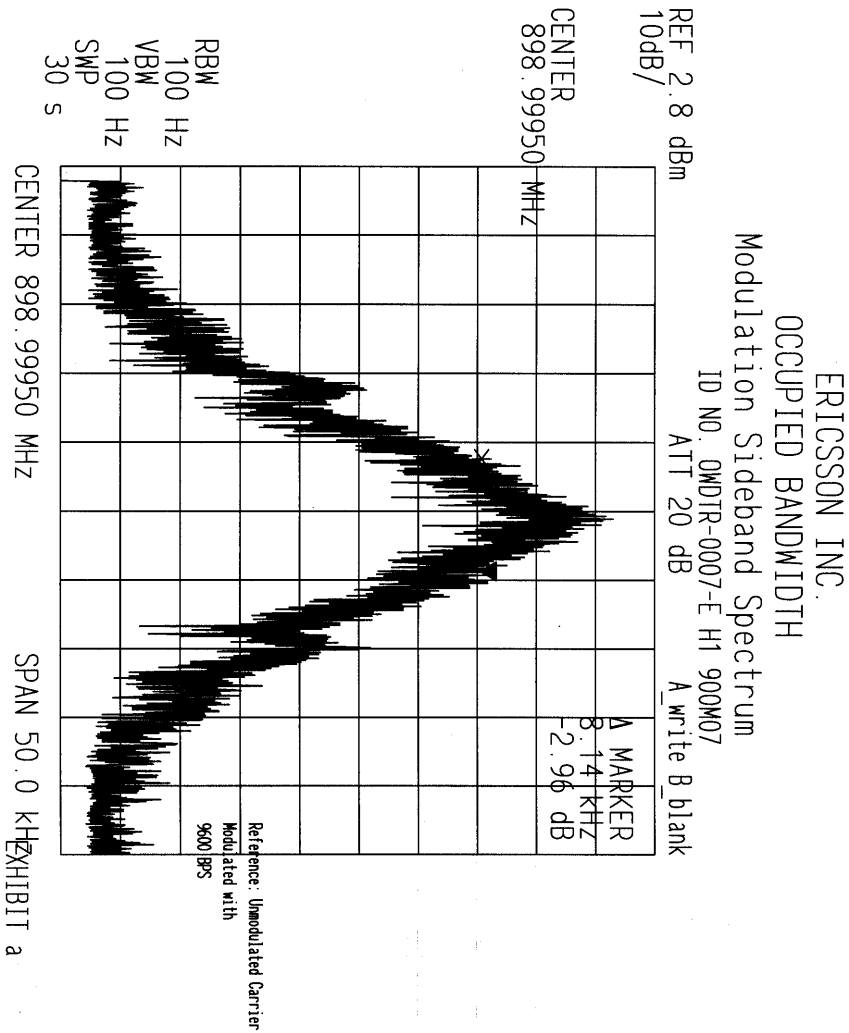
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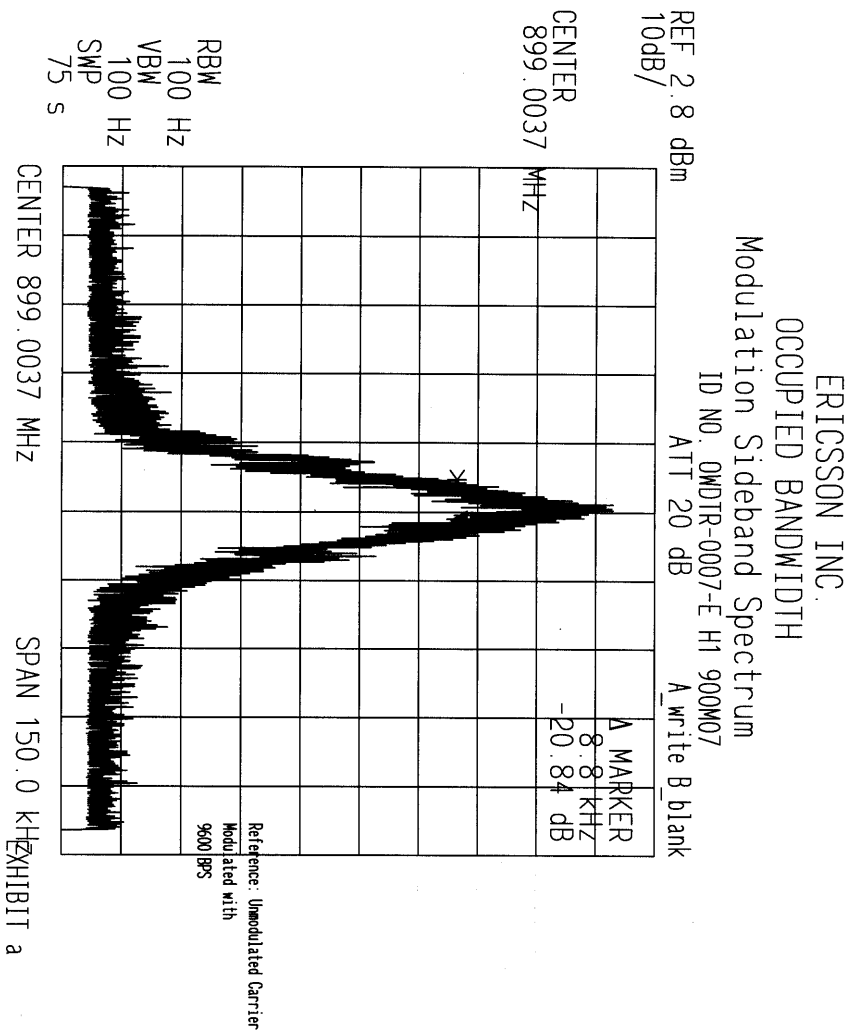
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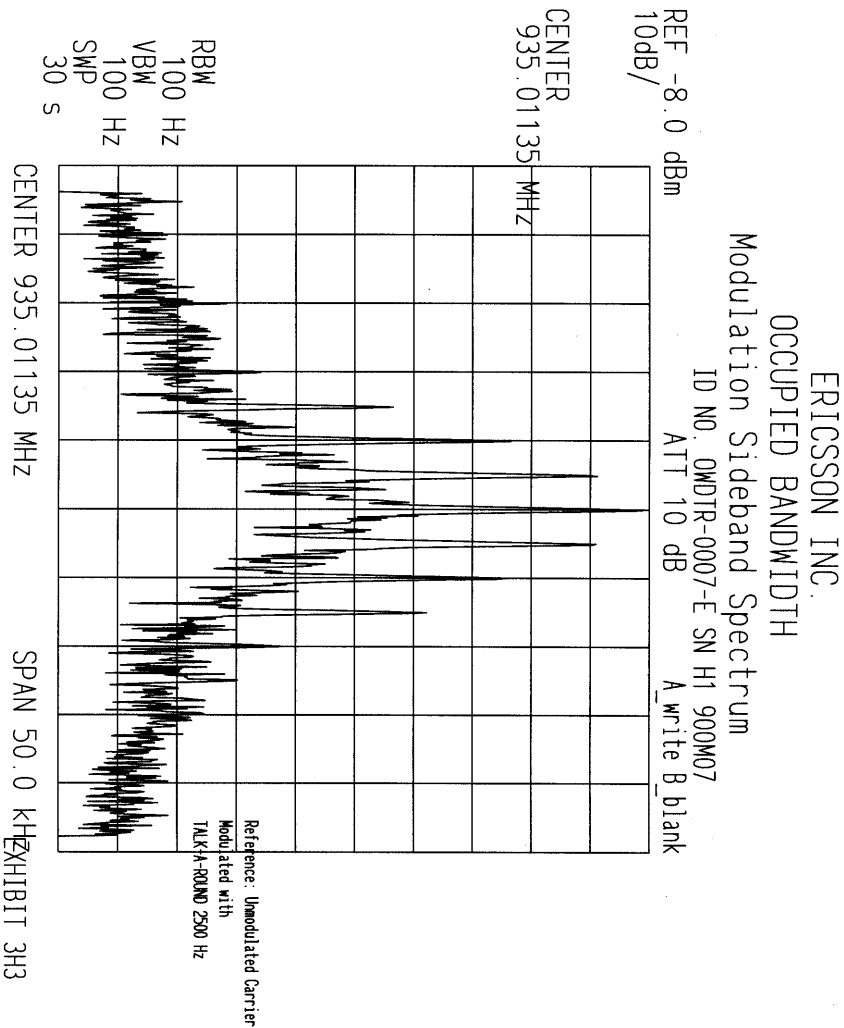
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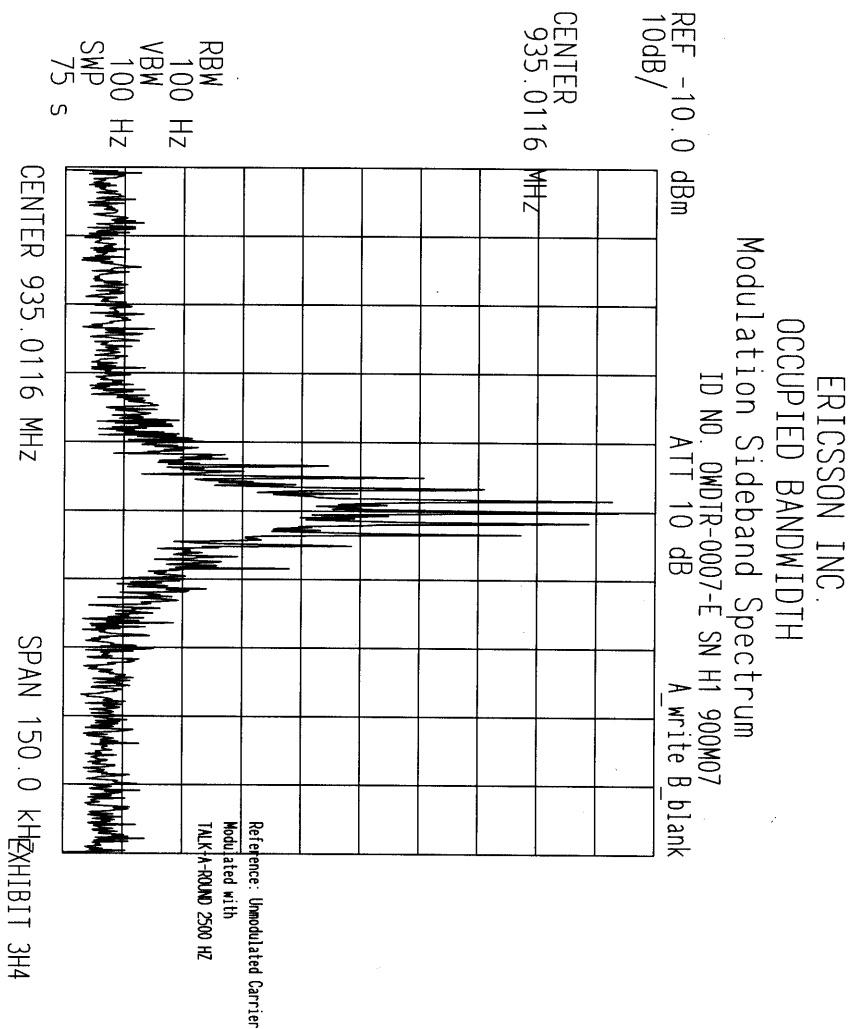
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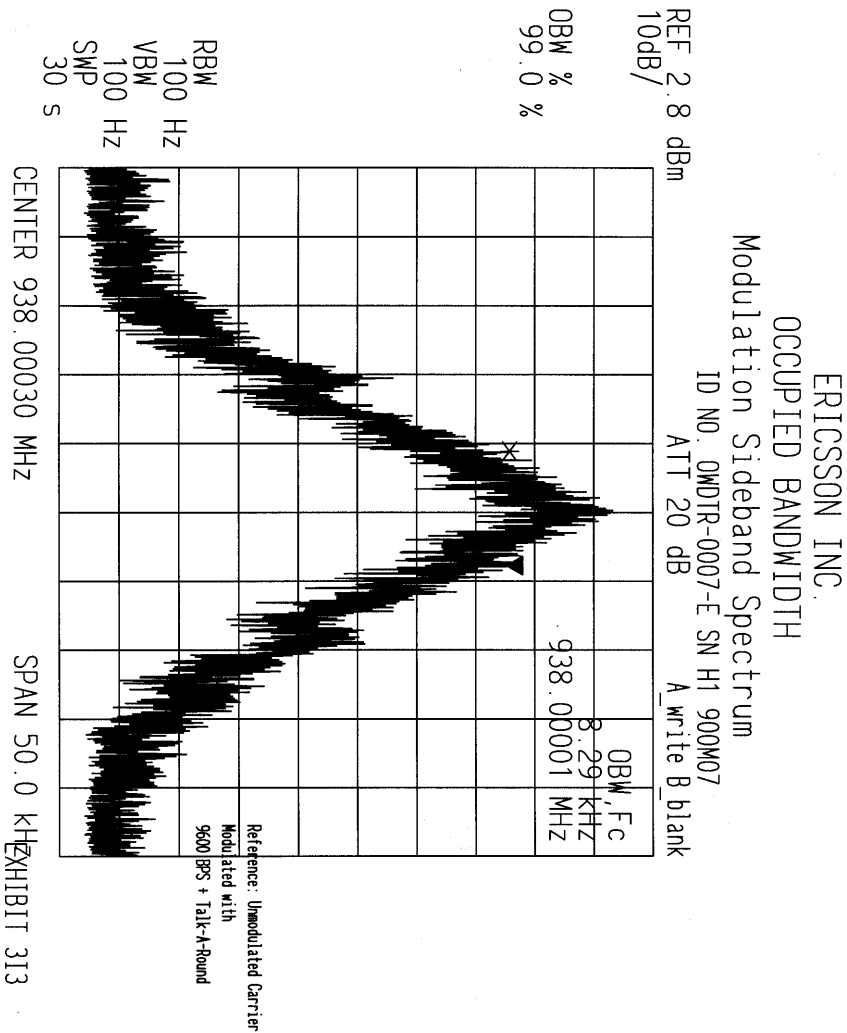
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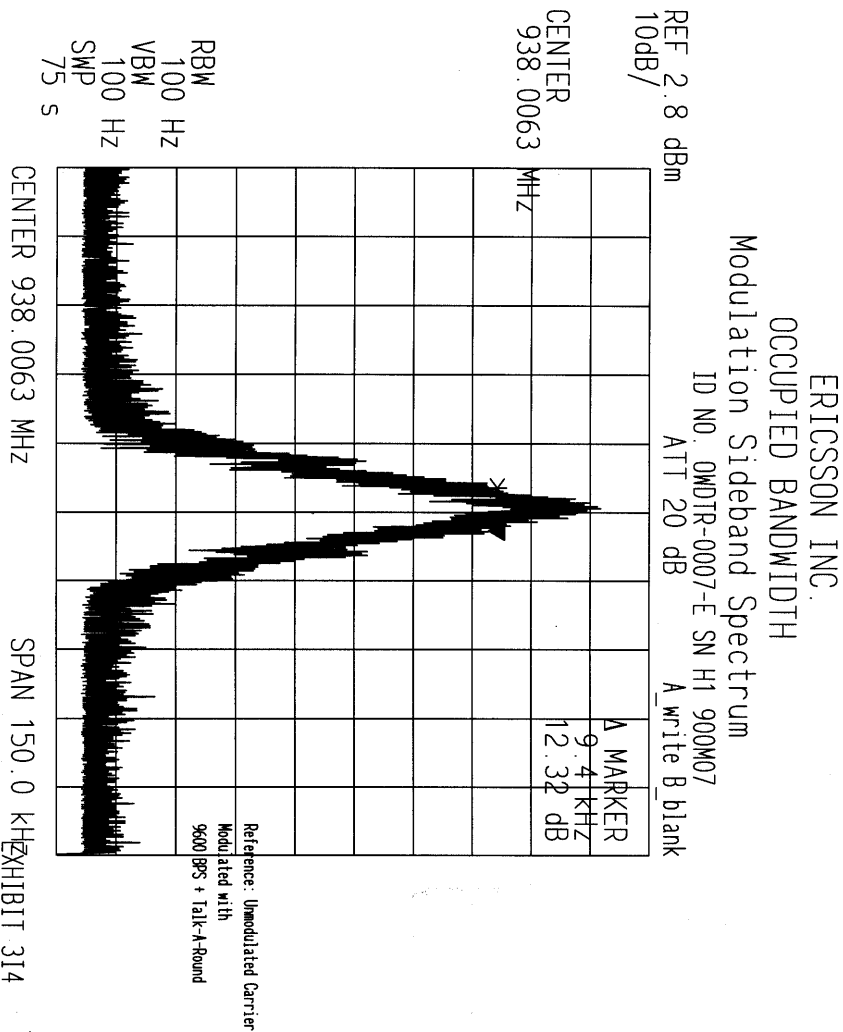
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SECTION 4

SPURIOUS EMISSIONS

Reference 2.1051 spurious emissions at the antenna terminals when properly loaded with an appropriate artificial antenna were measured per TIA\EIA 603.

Results are as shown in the following Sections

Tx Conducted Emissions		
Page	Frequency Mhz	Power in Watts
21	896.0125 940.9875	1&2

Equipment used was:

Rohde & Schwarz ESMI

Reference 2.1053 field strength of spurious radiation was measured on our three meter range. The site and equipment are described in the site description and attenuation measurements for the Ericsson Inc. three meter radiation site filed with the FCC in Columbia, Maryland, in June of 1990 and with the Industry Canada in May of 1999. The measurement procedure is per TIA/EIA 603, but done on a three meter test site. Results are shown on the following exhibits

Tx Radiated Emissions		
Page	Frequency	Power in Watts
22	896.0125 940.9875	1&2

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Transmitter Conducted

ERICSSON EMC LAB - OPEN AREA TEST SITE

Customer Name:	Ericsson Inc	Contact Name:	Kevin Markey
Lab Test Number:		FCC Identifier:	
Date of Test:	July 5, 2000	UUT S/N:	HI900N01
Test Range Temp:	72 Deg F	UUT Model:	J700P
Test Range RH:	26 %	Description:	

TEST EQUIPMENT INFORMATION

EQUIPMENT TYPE	QC #	DESCRIPTION	FREQ RANGE	CAL DATE	CAL DUE
Test Receiver	E02520	Rohde & Schwarz Model ESM1	20Hz - 26.5GHz	7/12/99	7/12/00
Spectrum Analyzer	N/A				
RF Generator	E0990	Hewlett Packard Model 83732A RF Generator	10MHz - 20GHz	3/1/00	3/1/01
Notch Filter	S/N 95168-2	Telonic Berkeley Model TTR 750-3EE1	500MHz - 1GHz		
RF Cable (Benchtop)	Cable 8	Insulated Wire Model NPS-2501-200-NPS			

CONDUCTED EMISSIONS

UUT Freq. of Operation:	896.0125 MHz						
High Power level = 2 Watts				Low Power level = 1 Watt			
Freq of Spurious Emission (MHz)	Raw Measurement (dBm)	Conducted Emission (dBm)	Limit (dBm)	Freq of Spurious Emission (MHz)	Raw Measurement (dBm)	Conducted Emission (dBm)	Limit (dBm)
1792.0250	-59.16	-39.8	-20.0	1792.0	-62.18	-42.9	-20.0
2688.0375	neo		-20.0	2688.0	neo		-20.0
3584.0500	-62.41	-42.5	-20.0	3584.1	-64.06	-44.0	-20.0
4480.0625	neo		-20.0	4480.1	neo		-20.0
5376.0750	neo		-20.0	5376.1	neo		-20.0
6272.0875	neo		-20.0	6272.1	neo		-20.0
7168.1000	neo		-20.0	7168.1	neo		-20.0
8064.1125	neo		-20.0	8064.1	neo		-20.0
8960.1250	neo		-20.0	8960.1	neo		-20.0

UUT Freq. of Operation:	940.9875 MHz						
High Power level =				Low Power level =			
Freq of Spurious Emission (MHz)	Raw Measurement (dBm)	Conducted Emission (dBm)	Limit (dBm)	Freq of Spurious Emission (MHz)	Raw Measurement (dBm)	Conducted Emission (dBm)	Limit (dBm)
1881.9750	-62.59	-42.8	-20.0	1881.9750	-63.6	-43.7	-20
2822.9625	neo		-20.0	2822.9625	neo		-20
3763.9500	-64.64	-43.7	-20.0	3763.9500	-64.44	-44.1	-20
4704.9375	neo		-20.0	4704.9375	neo		-20
5645.9250	neo		-20.0	5645.9250	neo		-20
6586.9125	neo		-20.0	6586.9125	neo		-20
7527.9000	neo		-20.0	7527.9000	neo		-20
8468.8875	neo		-20.0	8468.8875	neo		-20
9409.8750	neo		-20.0	9409.8750	neo		-20

Test Performed By: Rick Simpkins
Notes: neo = No Emission Observed

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47CFR90 (12.5KHz BW) - RADIATED EMISSIONSERICSSON EMC LAB - OPEN AREA TEST SITE

Customer Name: ComNet-Ericsson

Lab Test Number: 00063001

Date of Test: June 30, 2000

Test Range Temp: 73 Deg F

Test Range RH: 36 %

Contact Name: Kevin Markey

FCC Identifier: OWDTR-0007-E

UUT S/N: T19-1011

UUT Model: H1 900N1 700S

Description: J700P 900MHZ Portable

TEST EQUIPMENT INFORMATION

EQUIPMENT TYPE	QC #	DESCRIPTION	FREQ RANGE	CAL DATE	CAL DUE
Transducer (30-200MHz)	E0718	EMCO Model 3401C Biconical	30MHz - 199.999MHz	8/2/99	8/2/00
Transducer (200-1000MHz)	E0720	EMCO Model 3146 Log Periodic	200MHz - 999.999MHz	12/14/99	12/14/00
Transducer (1-18GHz)	E0722	EMCO Model 3105 Horn	1GHz - 18GHz	10/9/99	10/9/00
Test Receiver	E02520	Rohde & Schwarz Model ESMI	20Hz - 26.5GHz	7/12/99	7/12/00
RF Cable (Mast)	Cable 1	Insulated Wire Model NPS-3053-4200-NPS			

RADIATED EMISSIONS OBSERVED

UUT Freq. of Operation: 896.0125 MHz		TX Output PWR: 2.0 W (Hi Power)						
(MHz)	(dBm)	AFk	(dB)	(EDRP)	12.5KHz Limit	(cm)	(deg)	(V/H)
1792.0250	-90.86	26.9	1.8	-54.6	-20	284	150	H
2688.0375	-78.75	30.7	2.4	-40.8	-20	343	189	V
3584.0500	-91.34	32.8	2.9	-51.3	-20	314	226	H
4480.0625	-87.91	34.2	3.4	-47.6	-20	219	309	H
5376.0750	-90.68	35.1	3.8	-47.5	-20	160	135	H
6272.0875	-96.01	36.8	4.2	-52.2	-20	204	0	V

UUT Freq. of Operation: 940.9875 MHz		TX Output PWR: 2.0 W (Hi Power)						
Freq of Spurious Emission (MHz)	Measurement (dBm)	AFk	Cable Loss (dB)	Emission Level (EDRP)	FCC 12.5KHz Limit (EDRP)	Elevation (cm)	Azimuth (deg)	Polarity (V/H)
1881.9750	-85.79	27.2	1.8	-49.5	-20	129	127	V
2822.9625	-81.53	30.7	2.5	-43.5	-20	335	157	V
3763.9500	-93.09	32.8	3.0	-52.3	-20	304	309	H
4704.9375	-83.63	33.4	3.5	-41.0	-20	129	291	H
5645.9250	-93.30	35.9	3.9	-49.4	-20	210	0	V
6586.9125	-92.70	36.3	4.3	-47.6	-20	157	122	H

UUT Freq. of Operation: 896.0125 MHz		TX Output PWR: 1.0 W (Low Power)						
(MHz)	(dBm)	AFk	(dB)	(EDRP)	12.5KHz Limit	(cm)	(deg)	(V/H)
1792.0250	-90.81	26.9	1.8	-54.6	-20	273	190	H
2688.0375	-88.44	30.7	2.4	-50.5	-20	182	0	V
3584.0500	-93.55	33.0	2.9	-53.1	-20	136	221	V
4480.0625	-93.83	34.2	3.4	-53.5	-20	100	0	H
5376.0750	-97.29	35.1	3.8	-54.1	-20	140	107	H
6272.0875	-100.84	36.8	4.2	-55.8	-20	100	198	H

UUT Freq. of Operation: 940.9875 MHz		TX Output PWR: 1.0 W (Low Power)						
(MHz)	(dBm)	AFk	(dB)	(EDRP)	12.5KHz Limit	(cm)	(deg)	(V/H)
1881.9750	-86.77	26.9	1.8	-50.1	-20	261	210	H
2822.9625	-88.93	30.7	2.5	-50.9	-20	138	359	V
3763.9500	-92.42	32.8	3.0	-51.7	-20	155	109	H
4704.9375	-94.26	33.4	3.5	-51.7	-20	108	65	H
5645.9250	-90.56	35.9	3.9	-46.7	-20	253	225	V
6586.9125	-98.70	36.3	4.3	-53.6	-20	167	227	H

Notes:

Test Performed By: John Barnard

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SECTION 5

FREQUENCY STABILITY

Par. 2.1055 variation of output frequency as a result of either temperature or voltage variation is reported in the graphs on the following sheets:

Page 24 Carrier Frequency Vs Temperature

Page 25 Carrier Frequency Vs. Voltage

The Equipment used is:

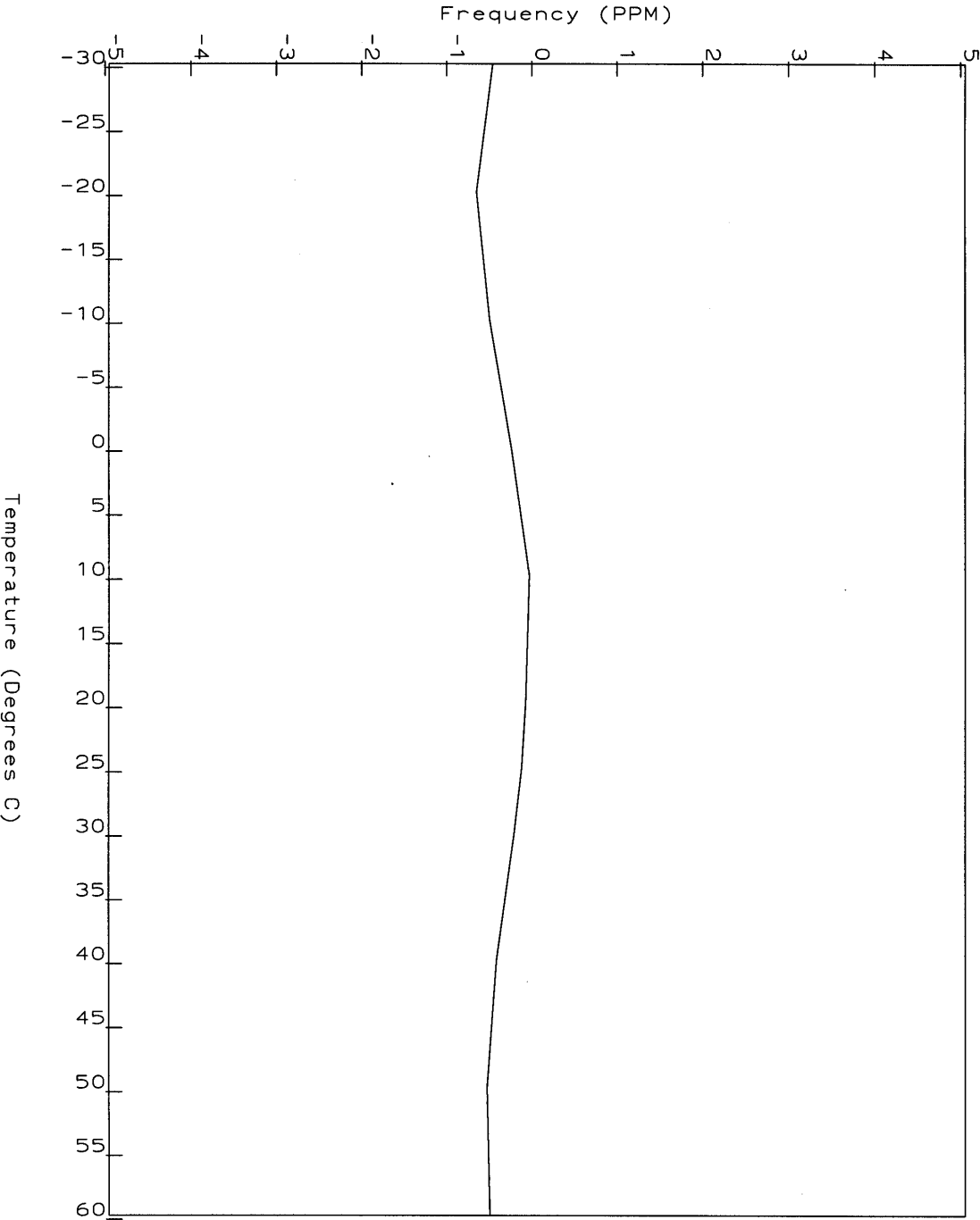
Hewlett Packard QUARTZ Thermometer Model 2804A

Takeda Counter TR5823AK

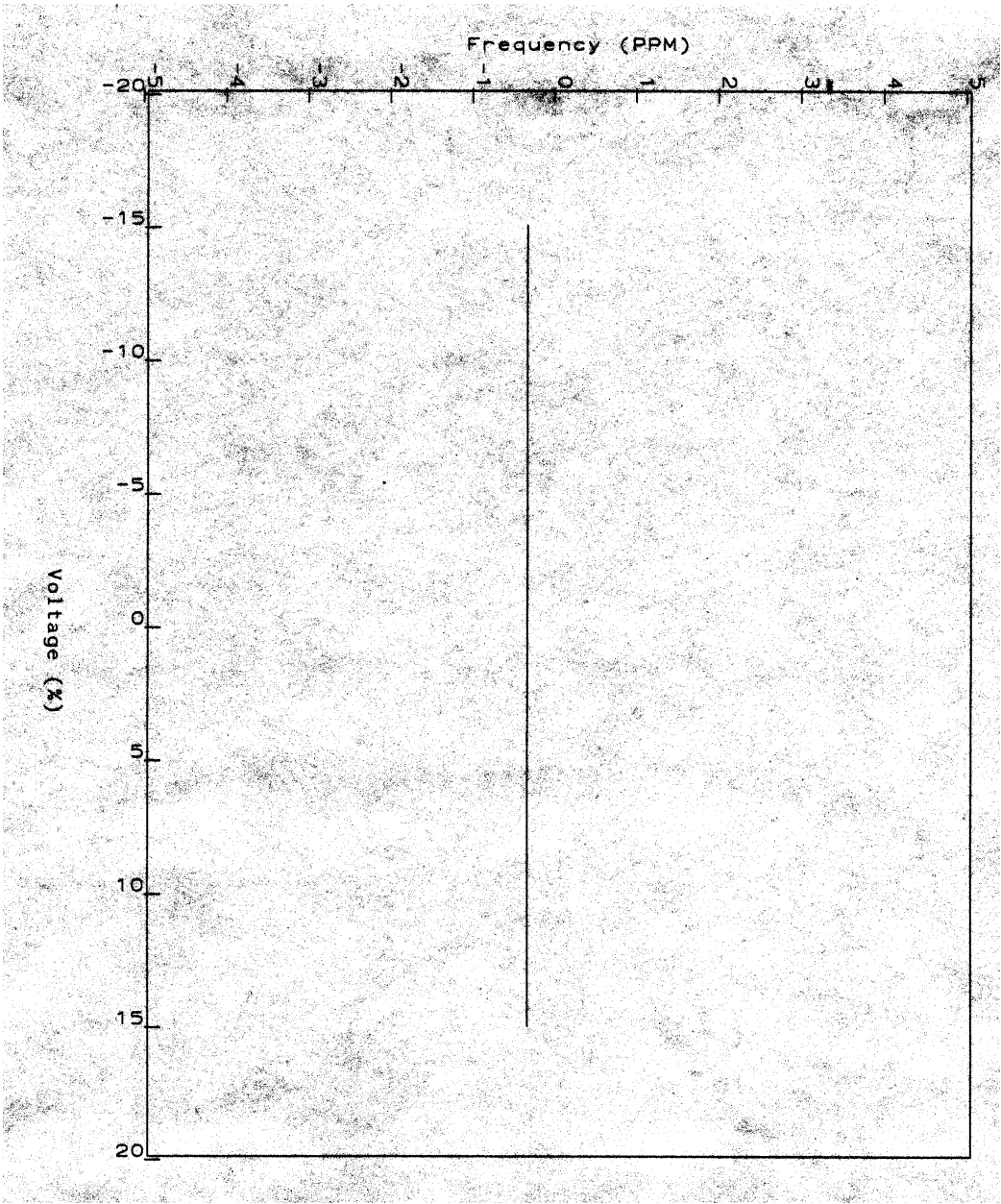
Takeda Digital Multimeter TR6878

Tabai Temperature chamber PL-2G

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Approved EUS/A Bryan McWatters	Checked	Date 10-18-2000	Rev A	Reference 00



Prepared (also subject responsible if other) EUS\A\RLC Bryan McWatters		No.OWDTR-0007-E Exhibit 6		
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S/N H1900 M7
FREQUENCY VS VOLTAGE
04 AUG 2000