Client:	ShareWave	Date:	1/14/99	Test Engr:	Rudy Suy
Product:	Power Wave 2.4G Radio	File:	T29909	Proj. Eng:	Mark Briggs
Objective:	Final Qualification	Site:	SVOATS #1	Contact:	Dale Dorando
Spec:	FCC Part 15	Page:	1 of 6	Approved:	
Revision	Draft 0.1				
The obje		Ambient Co emperature: Humidity: est Obj	8 ℃ 85% ective	ication test	ing of the EUT
	below relative to the spec vice and receiver will be de			e for the R	adio part. The
	Т	est Sun	nmary		
<u>Run #1a</u>	 Maximized Spurious Rac 24000MHz, High Channel 			Restricted	Bands, 30-
PASS	Results: FCC A	-1.7 dB	Avg. @ 248	4.001 MHz	Horizontal
<u>Run #1b</u>	 6dB Bandwidth measure High Channel 	ment MHz	In Accordance	e With §15.2	247 (a) (2),
PASS	Results: the minimum 60 connection meeting the			•	red via direct
<u>Run #1c</u>	 Transmitted Power Meas Channel 	urements I	In Accordance	With 15.24	7 (b), High
					7 (b), High
PASS	Channel	as measur	ed to be 17.4	dBm	
PASS	Channel Results: Output power w - Power Density Measurer Channel	vas measur nents In Ac	ed to be 17.4	dBm h 15.247 (d), High
PASS Run #1d PASS	Channel Results: Output power w - Power Density Measurer Channel	vas measur nents In Ac ut power de liated Emis	ed to be 17.4 ccordance Wit ensity in 3 KH	dBm h 15.247 (d z bandwidth), High 1 was -3.3 dBm

Æ	Elliott			ЕМС	Test Log
Client:	ShareWave	Date:	1/14/99	Test Engr:	Rudy Suy
Product:	Power Wave 2.4G Radio	File:	T29909	Proj. Eng:	Mark Briggs
Objective:	Final Qualification	Site:	SVOATS #1	Contact:	Dale Dorando
Spec:	FCC Part 15	Page:	2 of 6	Approved:	
Revision	Draft 0.1				
<u>Run #2b</u> ·	 6dB Bandwidth measuremen Center Channel 	t MHz	In Accordance	e With §15.2	247 (a) (2),
PASS	Results: the minimum 6dB b connection meeting the mini			•	ured via direct
<u>Run #2c</u> -	 Transmitted Power Measurer Channel 	ments	In Accordance	e With 15.24	7 (b), Center
PASS	Results: Output power was r	neasui	red to be 15.9	dBm	
<u>Run #2d</u> ·	 Power Density Measurement Channel 	s In Ad	ccordance Wit	h 15.247 (d)	, Center
PASS	Results: Maximum Output po	ower d	ensity in 3 KH	z bandwidth	was -5.1 dBm
<u>Run #3a</u> ·	 Maximized Spurious Radiate 24000MHz, Low Channel 24 			Restricted	Bands, 30-
PASS	Results: FCC A -9).8 dB	Avg. @ 485	50.143 MHz	Horizontal
<u>Run #3b</u> ·	 6dB Bandwidth measuremen Low Channel 	t MHz	In Accordance	e With §15.2	247 (a) (2),
PASS	Results: the minimum 6dB b connection meeting the mini			,	red via direct
<u>Run #3c</u> -	 Transmitted Power Measurer Channel 	nents	In Accordance	e With 15.24	7 (b), Low
PASS	Results: Output power was r	neasui	red to be 15.2	dBm	
<u>Run #3d</u> ·	- Power Density Measurement	s In A	ccordance Wit	h 15.247 (d)), Low Channel
PASS	Results: Maximum Output po	ower d	ensity in 3 KH	z bandwidth	was -6.1 dBm
<u>Run #4</u> -	Conducted Emissions Scan	of EU ⁻	T, 0.15-30.00	MHz, 120V	, 60Hz
PASS	Results: FCC B -11	.7 dB	QP @ ^	15.6223 MH	z Line

	111•								
6F	Elliott			EM	C Test Log				
Client:	ShareWave	Date:	1/14/99	Test Eng					
Product:	Power Wave 2.4G Radio	File:	T29909	Proj. Eng	g: Mark Briggs				
Objective:	Final Qualification	Site:	SVOATS #1	Contact:	Dale Dorando				
Spec:	FCC Part 15	Page:	3 of 6	Approve	d:				
Revision	Draft 0.1								
Equipment Under Test (EUT) General Description									
The EUT is a spread-spectrum transceiver which is designed to communication digital information. Normally, the EUT would be placed on a table top during operation. The EUT was, therefore, placed in this position during emissions testing to simulate the end user environment. The electrical rating of the EUT is 5 VDC, at 0.65 Amps.									
	his unit is with cast alu of dipole antenna.	minum	shield and o	circular p	oatch antenna				
	Equipmer	it Und	er Test (E	UT)					
Ма	anufacturer/Model/Descriptio	n	Serial Nu	Imber	FCC ID Number				
	e/ PowerWave/ Radio		FP42	2	none				
	Power Sup			lters					
	Description	M	anufacturer		Model				
None			-		-				
The EUT	power was derived from the	host cor	nputer power	supply.					
	Printed W	iring B	oards in E	EUT					
Manufa ShareWave		embly # ??	Rev. Ser	ial Numbe	er Crystals (MHz) 44				
		l- l'		-					
		sembl	ies in EU1	 					
	anufacturer/Description	As	sembly Numb	er Rev	v. Serial Number				
None			-	-	-				
	EUT	Enclo	osure(s)						
The EUT enclosure is primarily constructed of aluminum. It measures approximately 6.4 cm wide by 14 cm deep by .64 cm high.									

Æ	Elliott				EM	C Test	Log		
Client:	ShareWave	Date:	1/14/9	99	Test Eng	gr: Rudy Suy			
Product:	Power Wave 2.4G Radio	File:	T2990)9	Proj. En		S		
Objective:	Final Qualification	Site:	SVOA	TS #1	Contact:	Dale Doran	ndo		
Spec:	FCC Part 15	Page:	4 of 6		Approve	d:			
Revision	Draft 0.1		ł			I			
EMI Suppression Devices (filters, gaskets, etc.)									
Description Manufacturer Part Number									
None			-			-			
		• •		•			lumbor		
	nufacturer/Model/Descripti	on	Se	erial Num		FCC ID N			
Dell D1025	HT Monitor 200s Host PC		8096677 8C74Q			AK8GDM1 E2KTER			
	8264 Mouse			0372411		C3KAZ			
	DOREV Keyboard		00087998			GYUR4			
	Remote	• •		luipme		FCC ID N	lumber		
None									
	Cable Description	Leng	th (m)	From l	Jnit/Port	To Un	nit/Port		
Shielded Se		2			st PC		ooard		
Shielded Se			1.5 Host PC				use		
Shielded V					st PC	Monitor			
Shielded m	ulti-conductor	1	.4	Ho	st PC	EU	EUT I/O		

Test Software

0.3

EUT/ Ant

Ant./connector

Coax

The EUT contained test software running during testing which continuously exercised the system by transmitting and receiving network traffic. The network traffic density was approximately 80% to simulate the worst case expected in the end user environment.



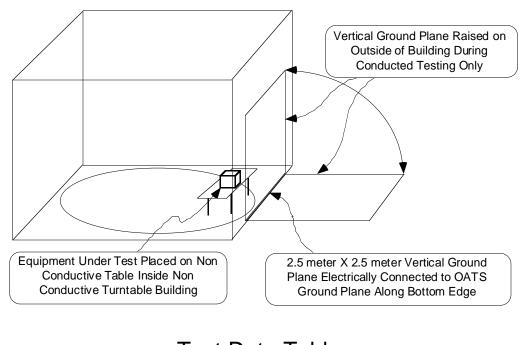
EMC Test Log

					V
Client:	ShareWave	Date:	1/14/99	Test Engr:	Rudy Suy
Product:	Power Wave 2.4G Radio	File:	T29909	Proj. Eng:	Mark Briggs
Objective:	Final Qualification	Site:	SVOATS #1	Contact:	Dale Dorando
Spec:	FCC Part 15	Page:	5 of 6	Approved:	
Revision	Draft 0.1				

General Test Conditions

During radiated testing, the Host PC was connected to 120V, 60Hz power input. The EUT and all local support equipment were located on the turntable for radiated testing and conducted testing.

During conducted emissions testing, the Host PC was connected to 120V, 60Hz power input as noted. A 2.5 meter X 2.5 meter ground plane was raised to a vertical position 40 cm from the EUT as shown below:



Test Data Tables See attached data

(C)	Ellic	ott				Emis	sions	Test	Data
Client:	ShareWav	ve, Inc.		Date:	1/14/98			Test Engr:	Rudy Suy
Product:	PowerWay	ve 2.4G	Radio	File:	D29909			Proj. Engr:	Mark Briggs
Objective	Final Qual	ification		Site:	SVOATS #1			Contact:	Dale Dorando
Spec:	FCC Part	15		Distance:	3m			Approved:	
Center Cha	annel	radiate	d scan, 1-24						
Frequency		Pol	FCC B	FCC B	Detector	Azimuth	Height	Comments	
MHz	dBuV/m	v/h	Limit	Margin	Pk/QP/Avg	· ·	meters		
4880.270		V	54.0	-8.0	Avg	180	-		
4880.270	44.8	h	54.0	-9.2	Avg	165	1.2		
4880.270	59.6	v	74.0	-14.4	Pk	180	1.9		

4880.270 59.2 h 74.0 -14.8 Pk 165 1.2 7316.670 37.8 v 54.0 -16.2 Avg 180 1.2 7316.670 37.1 h 54.0 -16.9 150 1.2 Avg -17.9 Pk 7316.670 56.1 74.0 180 1.2 v 7316.670 58.6 74.0 -15.4 Pk 150 1.0 h

Note: Frequencies above 8GHz the antenna was placed at 1 meter distance and no emissions were seen.

Run #1b: 6 dB bandwidth measurement in accordance with part 15.247(a)(2), High Channel RESULTS: 6dB Bandwidth Measured Directly to Antenna Port To Be 18.9MHz.

Run #1c: Transmitted Power Measurements in accordance with part 15.247(b), High Channel RESULTS: Transmit Power Measured with Power Meter to be 17.4dBm.

Run #1d: Power Density Measurements in accordance with part 15.247(d), High Channel RESULTS: Power Density Measured Directly to Antenna Port To Be -3.3dBm.



Emissions Test Data

Client:	ShareWave, Inc.	Date:	1/14/98	Test Engr:	Rudy Suy
Product:	PowerWave 2.4G Radio	File:	D29909	Proj. Engr:	Mark Briggs
Objective	Final Qualification	Site:	SVOATS #1	Contact:	Dale Dorando
Spec:	FCC Part 15	Distance:	3m	Approved:	
Spec.	FCC Fail 15	Distance.	311	Approveu.	

Run #2a: Maximized radiated scan, 1-24 GHz, Restricted Band Center Channel

Center Cha	annei							
Frequency	Level	Pol	FCC B	FCC B	Detector	Azimuth	Height	Comments
MHz	dBuV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	*	
4880.270	46.6	h	54.0	-7.4	Avg	110	1.4	
4880.270	45.2	v	54.0	-8.9	Avg	120	1.2	
4880.270	62.5	h	74.0	-11.5	Pk	110	1.4	
4880.270	61.5	v	74.0	-12.5	Pk	120	1.2	
7316.670	36.3	v	54.0	-17.7	Avg	180	1.0	
7316.670	36.3	h	54.0	-17.7	Avg	100	1.0	
7316.670	47.6	v	74.0	-26.4	Pk	180	1.0	
7316.670	47.1	h	74.0	-26.9	Pk	100	1.0	

Note: Frequencies above 8GHz the antenna was placed at 1 meter distance and no emissions were seen.

Run #2b: 6 dB bandwidth measurement in accordance with part 15.247(a)(2), High Channel RESULTS: 6dB Bandwidth Measured Directly to Antenna Port To Be 18.38MHz.

Run #2c: Transmitted Power Measurements in accordance with part 15.247(b), High Channel RESULTS: Transmit Power Measured with Power Meter to be 15.9dBm.

Run #2d: Power Density Measurements in accordance with part 15.247(d), High Channel RESULTS: Power Density Measured Directly to Antenna Port To Be -5.1dBm.



Emissions Test Data

Client:	ShareWave, Inc.			Date:	1/14/98		Test Engr:	Rudy Suy	
Product:	PowerWay	ve 2.4G F	Radio	File:	D29909			Proj. Engr:	Mark Briggs
Objective	Final Qual	lification		Site:	SVOATS #1			Contact:	Dale Dorando
Spec:	FCC Part	15		Distance:	3m			Approved:	
Run #3a: M Low Chanr		radiated	l scan, 1-24	GHz, Restrict	ed Band				
Frequency	Level	Pol	FCC B	FCC B	Detector	Azimuth	Height	Comments	
MHz	dBuV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
4850.143	44.2	h	54.0	-9.8	Avg	110	1.4		
4850.143	43.7	v	54.0	-10.3	Avg	120	1.2		
4850.143	60.0	h	74.0	-14.0	Pk	110	1.4		
4850.143	59.1	V	74.0	-14.9	Pk	120	1.2		
7279.930	36.8	V	54.0	-17.2	Avg	180	1.0		
7279.930	36.3	h	54.0	-17.7	Avg	100	1.0		
7279.930	48.8	V	74.0	-25.2	Pk	180	1.0		
7279.930		h	74.0	-25.6	Pk	100	1.0		
					e with part 15 nna Port To B		igh Chann	el	
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS:	6dB Band Transmitte Transmit ower Den Power De	dwidth M ed Power Power N sity Meas ensity Me	leasured Dir Measureme Measured wit surements in easured Dire	ectly to Anter nts in accord h Power Meter accordance ctly to Anten	ance with par ance with par er to be 15.2d with part 15.2 na Port To Be	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm.	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: C	6dB Band Transmitte Transmit ower Den Power De	dwidth M ed Power Power N sity Meas ensity Me <u>Emissior</u>	leasured Dir Measureme Measured wit surements in easured Dire	ectly to Anter nts in accord h Power Meter accordance ctly to Anten lz, High Chan	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: <u>Run #4: Ca</u> Frequency	6dB Band Transmitte Transmit ower Den Power Den Power Den Denducted Level	dwidth M ed Power Power N sity Meas ensity Meas Emission Power	leasured Dir Measureme leasured wit surements in easured Dire hs, 120V/60H FCC B	ectly to Anter nts in accord h Power Meter accordance ctly to Anten	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst car Detector	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm.	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: Co Frequency MHz	6dB Band Transmitte Transmit ower Den Power De Power De Donducted Level dBuV	dwidth M ed Power Power M sity Measensity Mease	leasured Dir Measureme Measured wit surements in easured Dire <u>hs, 120V/60H</u> FCC B Limit	ectly to Anter nts in accord h Power Meter accordance ctly to Anten Iz, High Chan FCC B Margin	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst ca Detector Function	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: Co Frequency MHz 15.6223	6dB Band Transmitte Transmitte Transmit ower Den Power Den Power Den Denducted Level dBuV 36.3	dwidth M ed Power Power M sity Measensity Mease	Measured Dir Measureme Measured with surements in easured Dire <u>hs, 120V/60H</u> FCC B Limit 48.0	ectly to Anter nts in accord h Power Meter accordance ctly to Anten FCC B Margin -11.7	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst ca Detector Function QP	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: Co Frequency MHz 15.6223 15.6406	6dB Band Transmitte Transmitte Transmit ower Den Power Den Power Den Denducted Level dBuV 36.3 35.6	dwidth M ed Power Power M sity Mease ensity	Measured Dir Measureme Measured with surements in easured Dire <u>hs, 120V/60H</u> FCC B Limit 48.0 48.0	ectly to Anter nts in accord h Power Meter accordance ctly to Anten <u>Iz, High Chan</u> <u>FCC B</u> <u>Margin</u> -11.7 -12.4	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst cas Detector Function QP QP	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: Co Frequency MHz 15.6223 15.6406 8.3928	6dB Band Transmitte Transmit ower Den Power Den Power Den Denducted Level dBuV 36.3 35.6 33.5	ed Power Power M sity Mease ensity Mease ensity Mease ensity Mease ensity Mease Power Lead Line 1 Neutral Neutral	Measured Dir Measureme Measured with surements in easured Dire ns, 120V/60H FCC B Limit 48.0 48.0 48.0	ectly to Anter nts in accord h Power Meter accordance ctly to Anten FCC B Margin -11.7 -12.4 -14.5	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst cas Detector Function QP QP QP	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: Co Frequency MHz 15.6223 15.6406 8.3928 19.5319	6dB Band Transmitte Transmit ower Den Power Den Power Den Denducted Level dBuV 36.3 35.6 33.5 27.6	Emission Power M sity Mease ensity Mease ensity Mease ensity Mease ensity Mease Power Lead Line 1 Neutral Neutral Line 1	Measured Dire Measured with surements in easured Dire hs, 120V/60H FCC B Limit 48.0 48.0 48.0 48.0	ectly to Anter nts in accord h Power Meter accordance ctly to Anten FCC B Margin -11.7 -12.4 -14.5 -20.4	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst cas Detector Function QP QP QP QP	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		
RESULTS: Run #3c: 1 RESULTS: Run #3d: P RESULTS: Run #4: Co Frequency MHz 15.6223 15.6406 8.3928	6dB Band Transmitte Transmit ower Den Power Den Power Den Denducted Level dBuV 36.3 35.6 33.5	ed Power Power M sity Mease ensity Mease ensity Mease ensity Mease ensity Mease Power Lead Line 1 Neutral Neutral	Measured Dir Measureme Measured with surements in easured Dire ns, 120V/60H FCC B Limit 48.0 48.0 48.0	ectly to Anter nts in accord h Power Meter accordance ctly to Anten FCC B Margin -11.7 -12.4 -14.5	nna Port To B ance with par er to be 15.2d with part 15.2 na Port To Be nel (worst cas Detector Function QP QP QP	e 19.2MHz. t 15.247(b), Bm. 247(d), High e -6.16dBm. se)	High Chan		

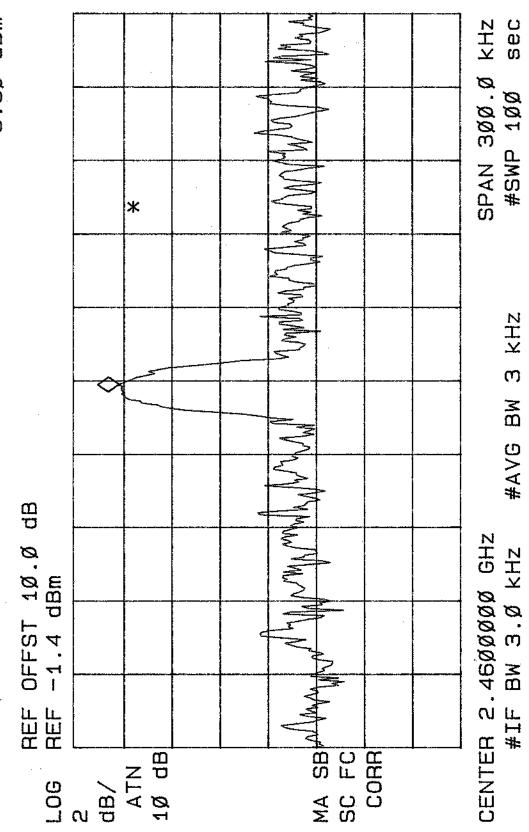
Edde Bandardth High Channel 1999 18:50:31 JAN 15.

-.53 dB MKH 18.90 MHz SPAN 30.00 MHz SWP 20.0 msec PEAK PEAK QP AVG DET: DET: ACTV MEAS #AVG BW 100 KHz Щ dB . Ø CENTER 2.45500 GHz #IF BW 100 KHz 0FFST 118.6 18.9Ø MHz MARKER Δ -.53 dB 2 dB K MA SB SC FC 110.7 CORR 2Ø dB ATN LOG dB/ Ц വ

1999 19:09:29 JAN 15,

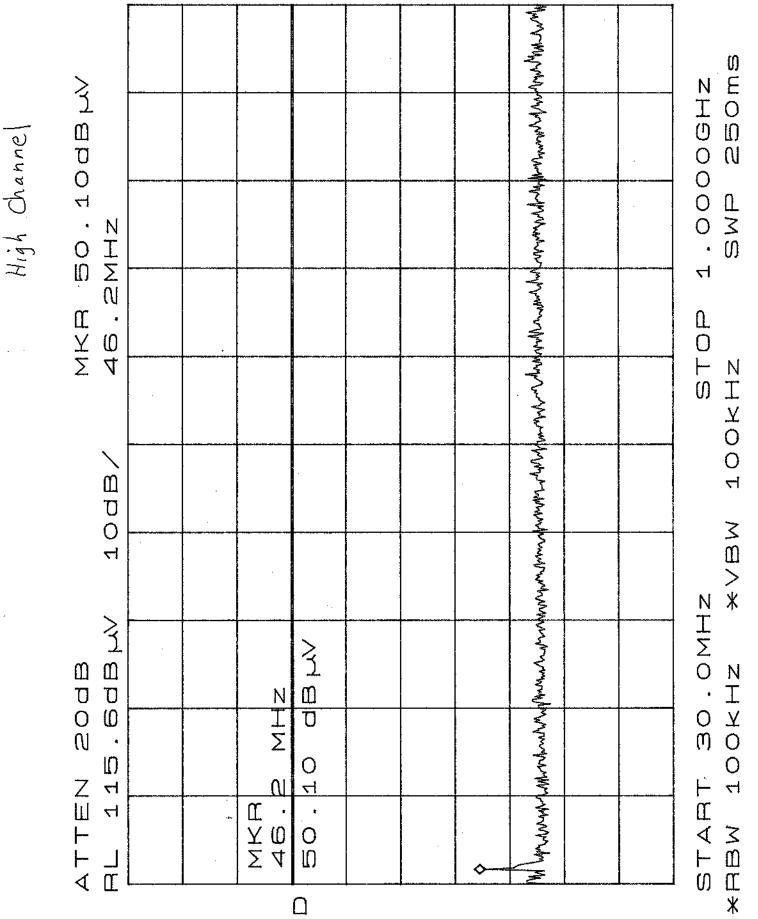
REF LEVEL -1.4 dBm

-3.3Ø dBm MKR 2.4599985 GHz PEAK PEAK QP AVG DET: DET: ACTV MEAS



Pauer Density High Channel

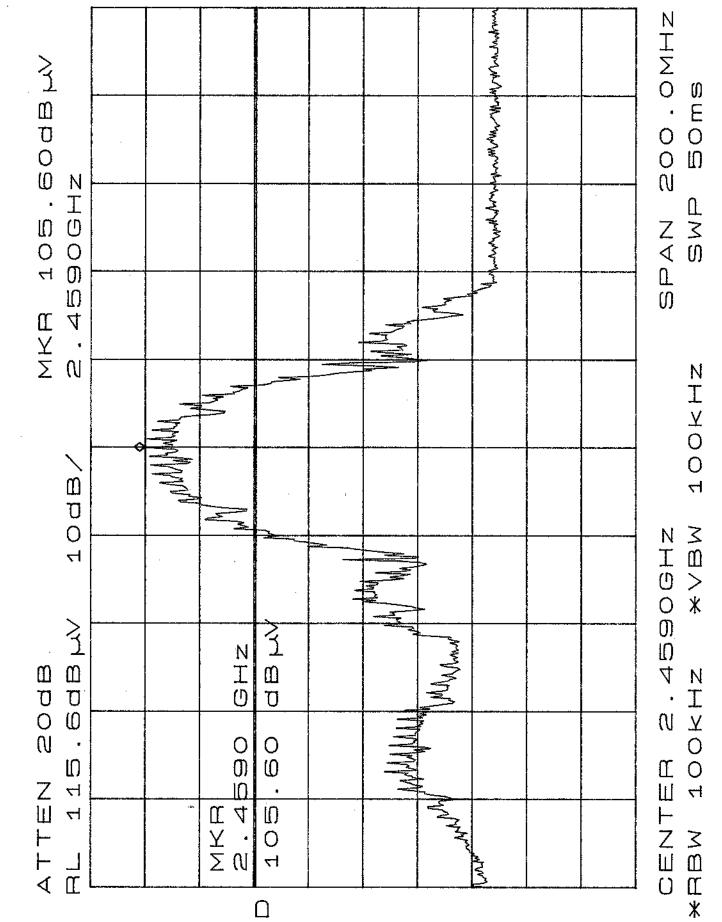
Bord Edge High Channel STOP 2.49000 GHz SWP 20.0 msec MKR 2.48353 GHz 71.98 dB W WWWWW ACTV DET: PEAK MEAS DET: PEAK QP AVG #AVG BW 1ØØ KHZ 1Ø.ØdB dB_tw 1999 #IF BW 100 KHZ 19: ØØ: 42 JAN 15, START 2.455ØØ GHz MARKER 2.48353 GHz 71.98 dBµV 0FFST 128.6 24 M 3Ø dB SC FC CORR MA SB ATN 00 10 dB/



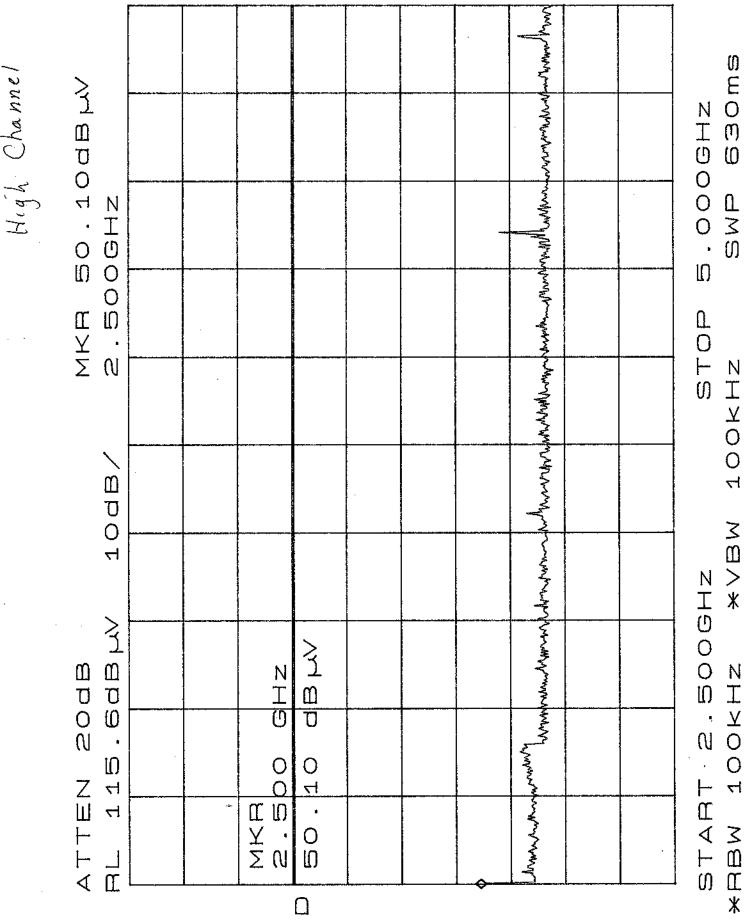
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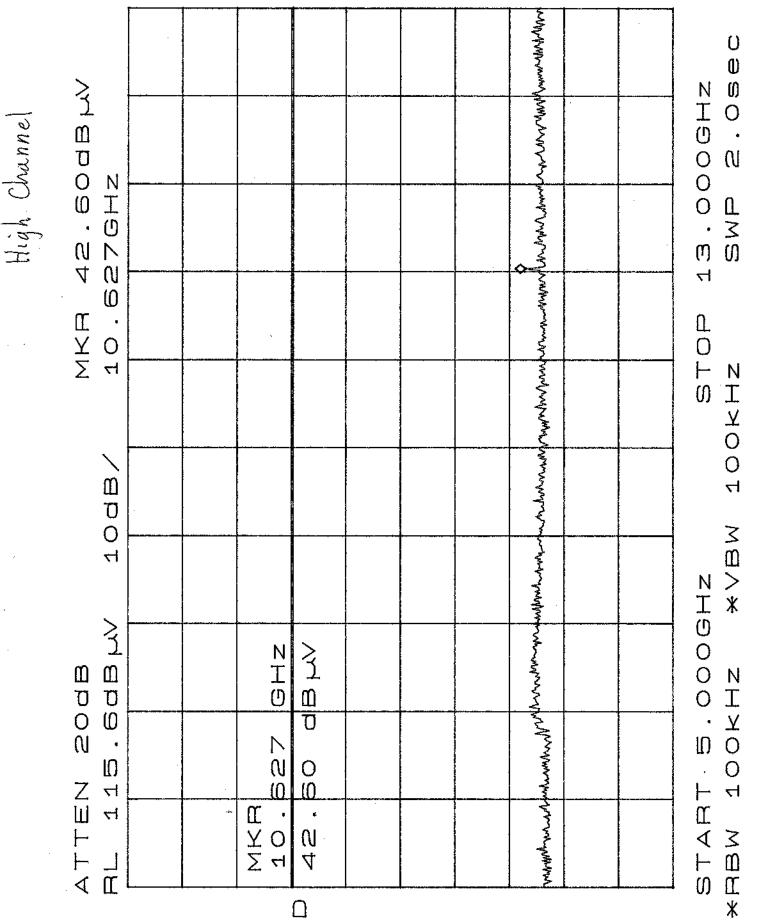
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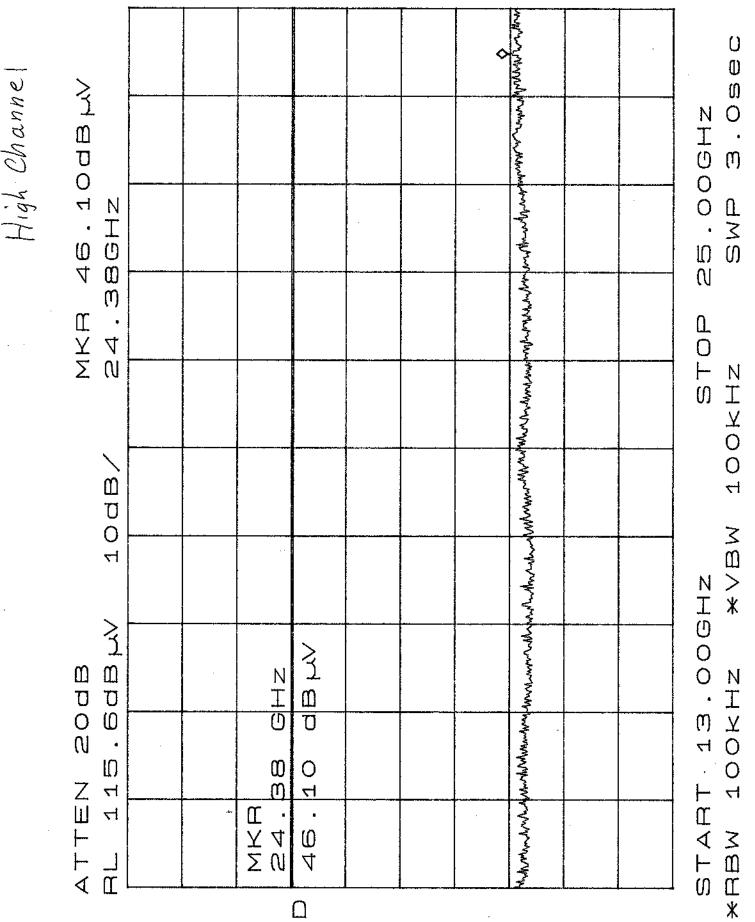
High Channel



High Channel







Щ SPAN 3Ø.ØØ MHZ SWP 2Ø.Ø msec MKH 18.38 MHz PEAK PEAK QP AVG . 10 DET: DET: ACTV MEAS #AVG BW 100 KHZ 1 10.0 dB dBµV 1999 CENTER 2.44000 GHz #IF BW 100 kHz 18: 39: 15 JAN 15, 0FFST 116.6 18.38 MHz MARKER Δ .18 dB 1Ø8.7 dBµV MA SB SC FC 1Ø dB CORR ATN г 00 г dB/ Ц

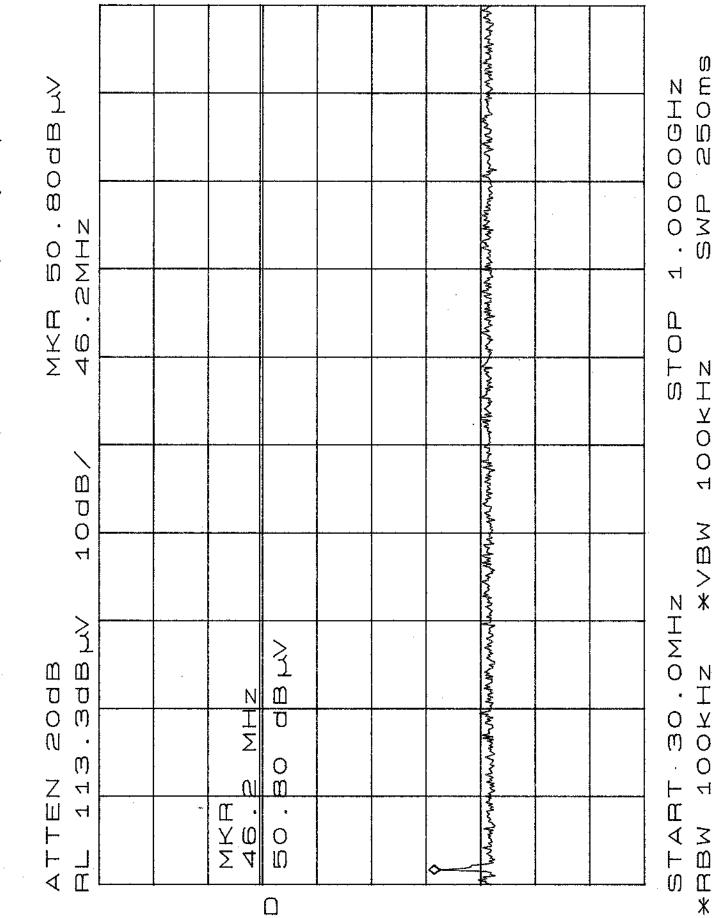
Odto Bandwidth Center Channel

1999 18:33:39 JAN 15,

Center Channel

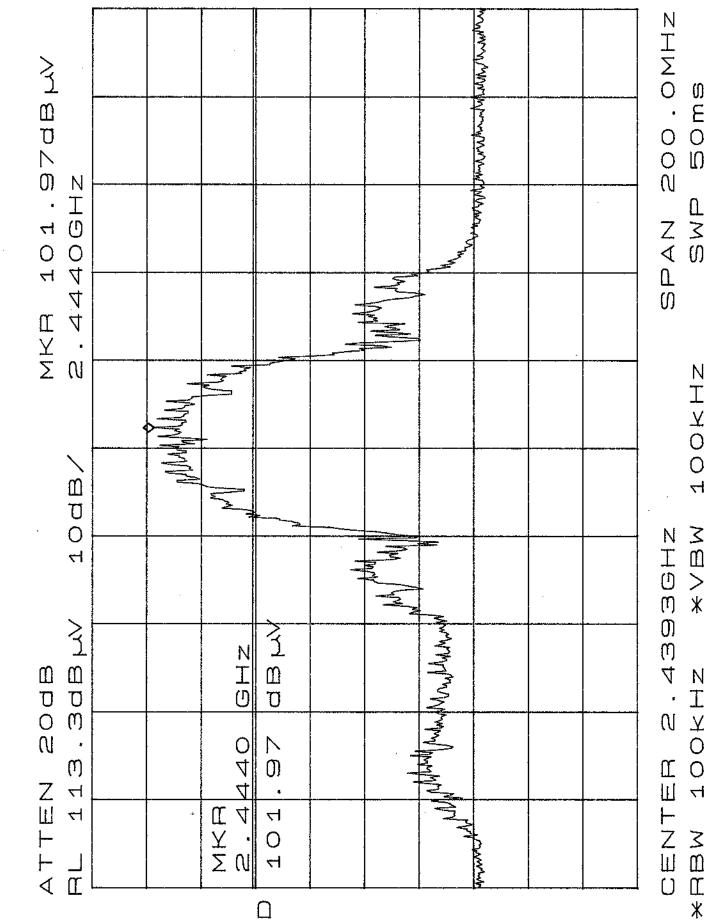
Paver Density

dBm 2.4429988 GHz 0 9 8 0 КНZ PEAK PEAK QP AVG SPAN 3ØØ.Ø #SWP 1ØØ -5.09 DET: DET: МКЛ ACTV MEAS #AVG BW 3 KHz OFFST 1Ø.Ø dB -3.4 dBm CENTER 2.4429966 GHz #IF BW 3.0 KHz 2.44299888 GHz -5.Ø9 dBm MARKER MA SB¹ SC FC 1Ø dB CORR ATN L0G dB/ ຸດ



CENTER CHANNEL

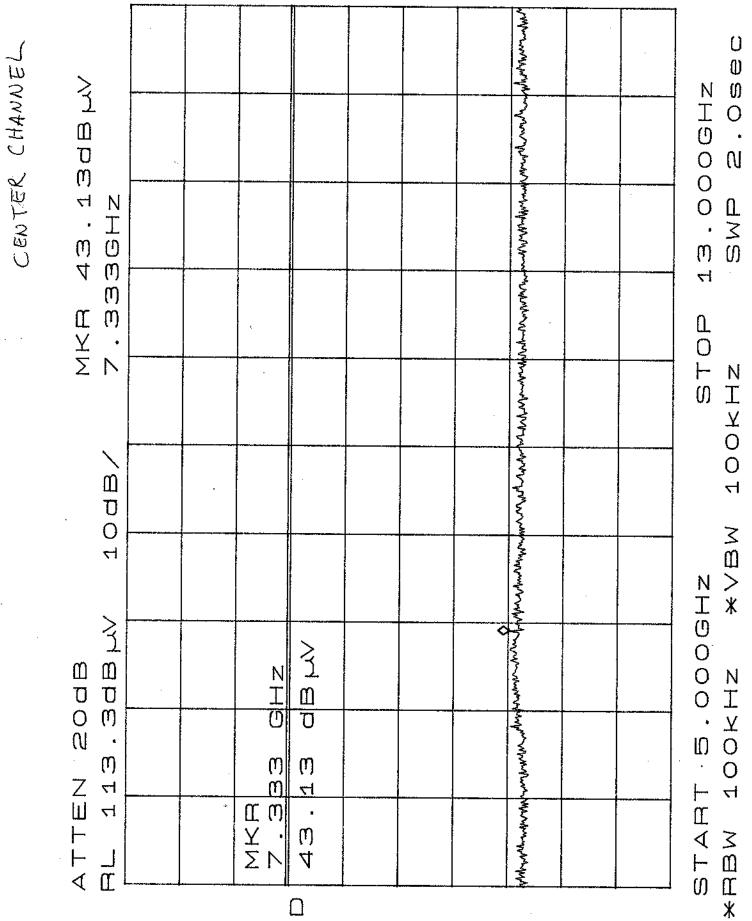
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-.ø2 dB SPAN 3Ø.ØØ MHZ SWP 2Ø.Ø msec MKH 19.20 MHz PEAK PEAK QP AVG DET: DET: ACTV MEAS #AVG BW 1ØØ KHZ N Ż 10.0 dB dB W 1999 CENTER 2.425ØØ GHZ #IF BW 1ØØ KHZ 18: Ø6: 32 JAN 15, 0FFST 116.Ø 19.2Ø MHz MARKER Δ -.Ø2 dB Z 107.8-dBuV MA SB-SC FC CORR 1Ø dB ATN LOG dB/ Ц ຸດ

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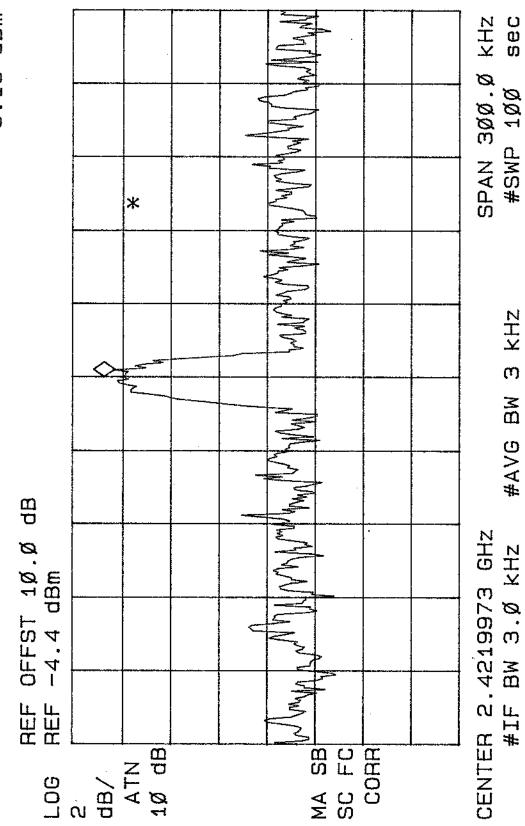
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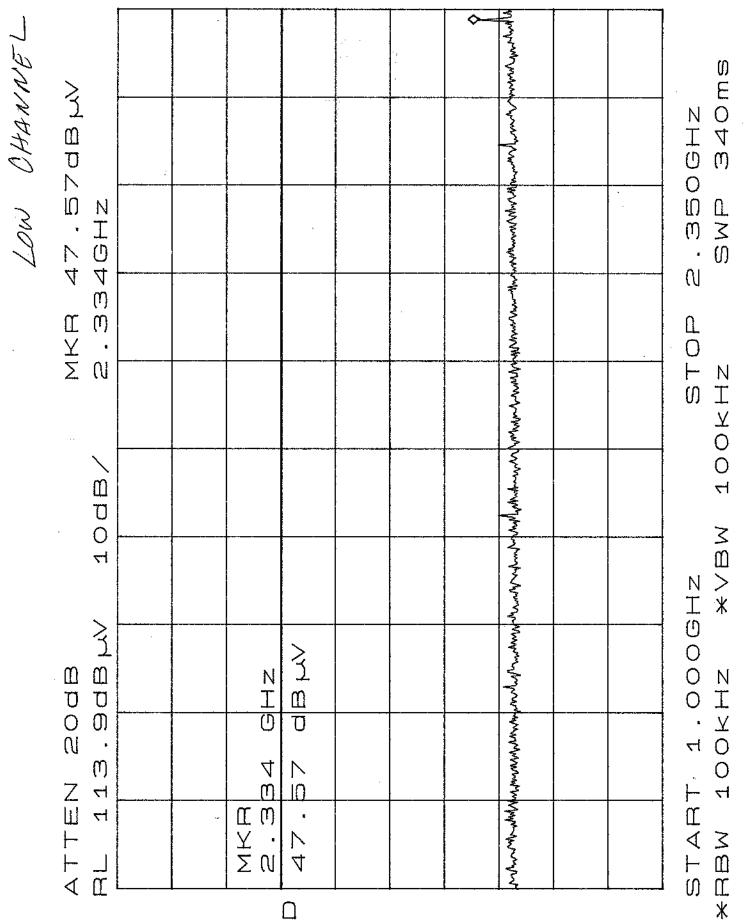
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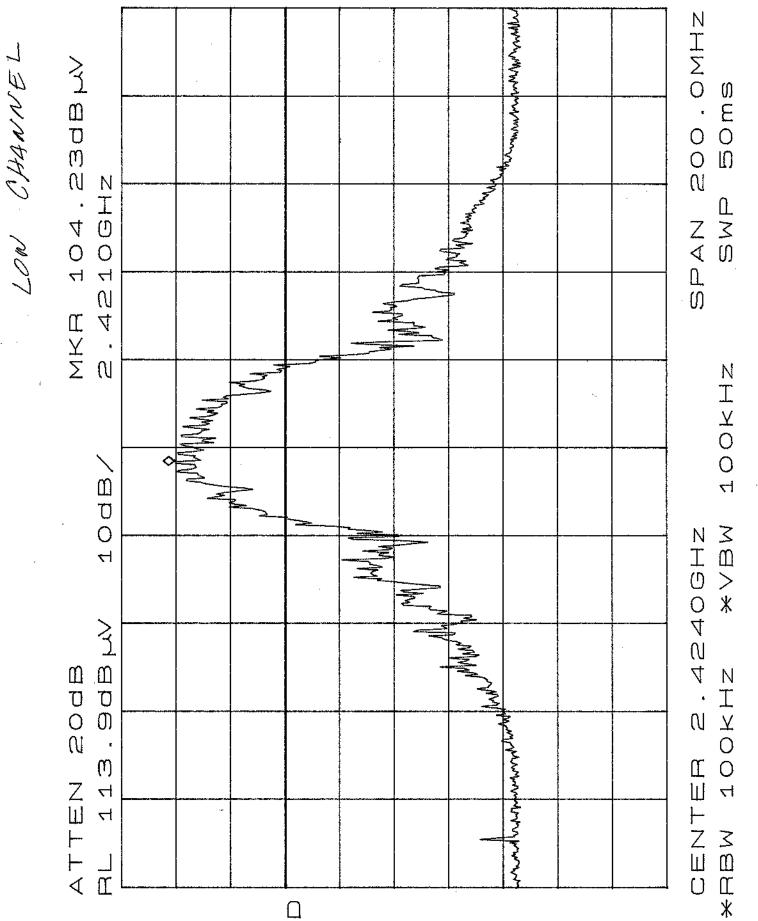
REF LEVEL -4.4 dBm

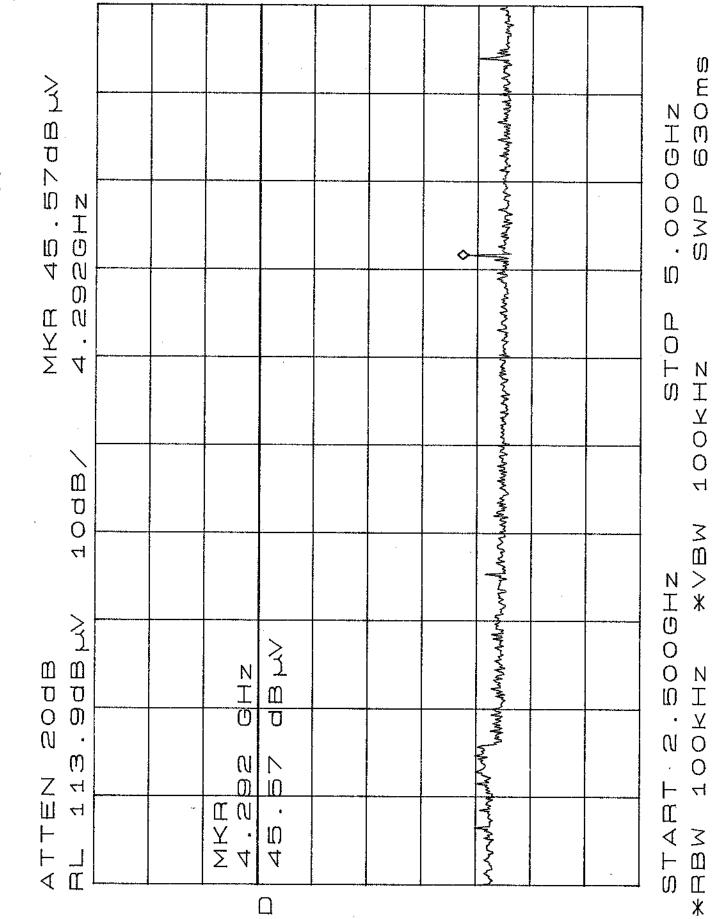
dBm MKR 2.422ØØØ3 GHz PEAK OP AVG -6.16 PEAK ACTV DET: MEAS DET:



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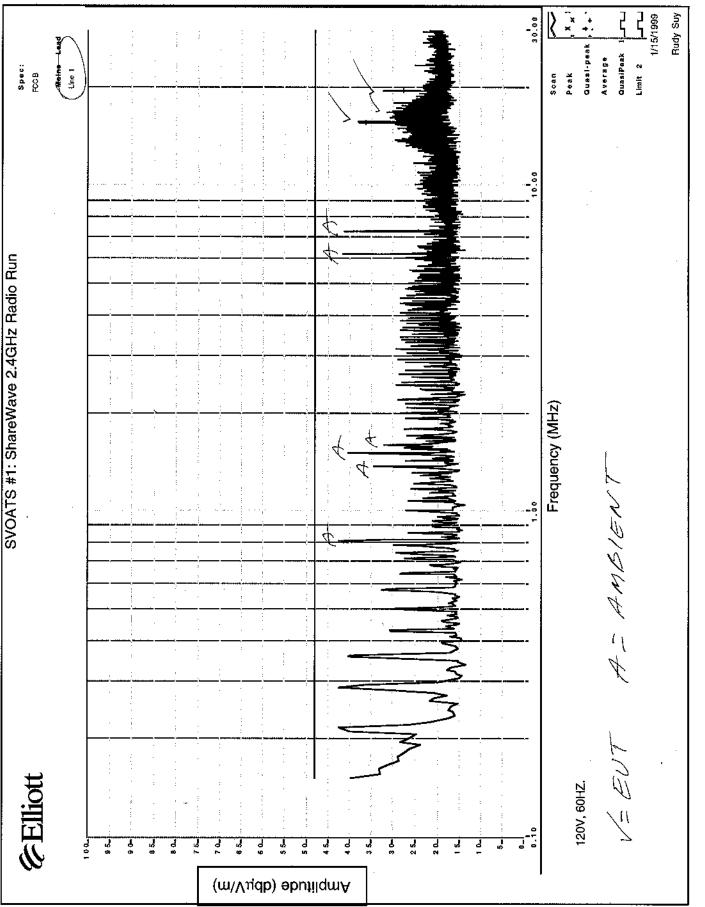


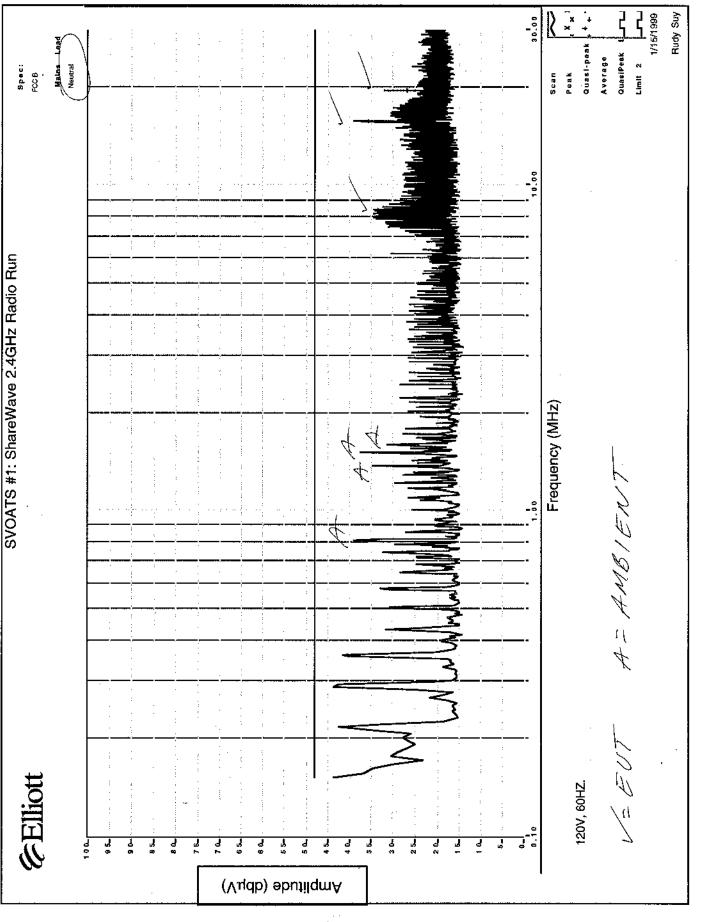


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Test Equipment List - SVOATS#1

January 4, 1999 ·

Manufactur	er/Description	<u>Model</u>	<u>Asset #</u>	<u>Interval</u>	Last Cal	<u>Cal Due</u>
Elliott Laboratories	FCC / CISPR LISN	LISN-3, OATS	304	12	6/24/98	6/24/99
EMCO	Biconical Antenna, 30-300 MHz	3110B	363	12	4/8/98	4/8/99
🔲 ВМСО	D. Ridge Horn Antenna, 1-18GHz	3115	487	12	6/18/98	6/18/99
M-EMCO	D. Ridge Horn Antenna, 1-18GHz	3115	868	12	9/22/98	9/22/99
🔲 ЕМСО	Log Periodic Antenna, 0.3-1 GHz	3146A	364	12	4/8/98	4/8/99
Hewlett Packard	EMC Receiver /Analyzer	8595EM	780	12	1/4/99	1/4/2000
Hewlett Packard	EMC Receiver /Analyzer	8595EM	787	12	11/23/98	11/23/99
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	263, (F303)	12	6/8/98	6/8/99
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	785	12	11/25/98	11/25/99
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	870	12	11/12/98	11/12/99
Hewlett Packard	Power Meter	432A	259, (F304)	12	3/10/98	3/10/99
Hewlett Packard	Spectrum Analyzer	8563B	284, (F194)	12	1/14/98	1/14/99
Hewlett Packard	Spectrum Analyzer, 9 KHz-6.5 GHz	8595E-041-103-	Metric, 885	12	5/11/98	5/11/99
Hewlett Packard	Thermistor Mount	478A	652	12	3/10/98	3/10/99
🔲 Narda West	High Pass Filter	HPF 180	821	12	8/10/98	8/10/99
Narda-West	EMI Filter 2.4 GHz, High Pass	60583 HPF-161	248	12	4/27/98	4/27/99
	EMI Filter 5.6 GHz, High Pass	60583 HXF370	247	12	4/27/98	4/27/99
🗌 Rohde & Schwarz	10 dB Pad / Pulse Limiter	ESH3Z2	372	12	6/22/98	6/22/99
Rohde & Schwarz	Test Receiver, 0.009-30 MHz	ESH3	215, (F197)	12	1/16/98	1/16/99
🛄 Rohde & Schwarz	Test Receiver, 20-1300MHz	ESVP	2 73	12	8/6/98	8/6/99

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в Date: Engr:

129909 File Number:

All calibration of equipment is traceable to a national standard of measurement such as NIST.