IF: Conducted Noise

115V 60~ 6A LOAD

FREQ	CAL	CORR	CONDUCTED NOISE	
MC	SET	FACT	OFF	ON
.150	35	.7	4.5	30
.250	35	"	24	32 4
.300	33	"	22 18	30
.400	33	.5	12 14	17
.500	33	"	12	27
.600	32	"	14	32
.800	28.5	.5	4	22
1.0	28	"	4.5	30
2.0	15	1	0.8	2
3.0	13.5		0.6	1
4.0	9		1.2	1.2
5.0	8.5		1.0	1.0
7.0	10		1.0	1.0
8.0	8		1.4	1.4
10.0	8.5		1.3	1.3
12.0	10		1.5	1.5
14.0	9.5		1.0	1.0
16.0	13	.5	3.0	3.0
18.0	10.5		4.2	4.2
20.0	10		4.0	4.0
22.0	9		2.6	2.6
24.0	10		1.8	1.8
25.0	11		1.8	1.8

This document is part of an integrated file. If separated from the file it must be subjected to individual systematic review.

Declassified in Part - Sanitized Copy Approved for Release 2013/02/27 : CIA-RDP78-03535A002000060013-8

Used Sony TR 812 Portable
8 Transistor Allband Radio

Radiation	Realtone 51, J
from	Six
P.S.	Transistor
20-25 feet	6-8 feet
10-25 feet [illegible] or above	

IDY signal
890-7-910-1500 ← walked all over building
Strong Strong medium weak
over 100 feet

I Radiation pickup by 51J negligible

II " " " " is pronounced when P.S. is grounded.

ac 115 volt 24 July 62

FREQ MC			Radiation mV/M Resistor load OFF	Resistor load ON	1DY ON	1DY P.S. OFF
.150	32	30-40	1000	7000	1200	100
.250	37	30-40	900	3000	2800	400
.300	37	16	800	3000	3600	1700
.400	35	20	500	1300	12000	3400
.500	35	18-20	340	700	4000	1600
.600	37	24	340	900	5000	2200
.800	30	30	110	320	900	400
1	32	30	90	360	1300	240
2	20	100	100	150	PS ON 2600 1DY 2000	160
4	12.5	50-60	40-50	90	400	40
5	16.5	30-40	30-40	60	700	20-40
7	18	8	8-10	40	160 PS ON 70 1DY	10-20 ~~20-40~~
8	13	10	10	22	70 PS 180 1DY	10 20-40
10	13.5	6	6	24	50 PS 150 1DY	6
12	14	10	10	60	42 PS 340	14
14	13.5	4	4	40	42 PS 70 1DY	10-12
16	7	5-6	5-6	20	38 PS 40 1DY	12-14
18	8.5		6	20	50 PS ~~70~~	7
20	9	7	7	8	34 PS 54 1DY	7
22	8.5	10	10	10	16 PS 28 1DY	5
24	7	3	3	35	18 PS 20 1DY	4-5
25	6	3	3	35	32 PS 18 1DY	4-5

II. CONVERTER RADIATION

ROD ANTENNA INPUT 115VAC 60~

FREQ mc	CAN SET	CORK FACT.	RADIATION µV/M ~~MONE~~	ON	10%	
.150	32	↓	26	84		
.250	37.5		70	150		
.300	37		151	110		
.400	35		280 42	800 100		
.500	35		400 500	640		
.600	37		160	280		
.800	30		48	140		
1.0	32		116	100		
2.0	20		5	60		
~~3.0~~						
4.0	12.5		4	4.2		
5.0	16.5		6.8	11		
7.0	18		6	20		
8.0	13		6	9.6		
10.0	13.2		5.6	5.6		
~~12.0~~ 13	14		5.6	5.6		
14.0	13.5		3.6	3.6		
16.0	7		3.6	3.6		
18.0	8.5		6.4	6.4		
20.0	9		6.8	6.8		
22.	8.5	↓	5.0	5.0		
~~24~~ 23	7	1	2.6	2.6		
25	6		2.4	2.4		

18 JULY 62

IV TEMPERATURE CHECK

AC INPUT = ~~270 V~~ 268V

TEMP = 50°C

TIME	DC OUTPUT 10Y "ON" VOLTS	RIPPLE millivolts	RF OUTPUT (MA)
0	12.2	47.	550
7	12.4	49	550
8	KICKED OUT AT ~~270~~ 268 VOLTS		
	TURNED ON REDUCED VOLTAGE TO 220.		
12	HOLD		
15	12.3	55.5	550
18	230 VOLTS		
19	240 VOLTS		
	12.4	60.	550
20	250		
	12.4	61	550
23	260		
	12.4	66	550

KICKED OUT AT 260 VOLTS

RESET - TO 260 VOLTS KICKED OUT AGAIN

MINOR MODIFICATIONS

#1 REPLACED .1 MFD WITH .22MFD T C CIRCUIT FOR PHASE CONTROL

18JUL 62

TEMP = 50°C (PS NOT WARMED UP)

AC INPUT = 268 (270) Volts 2.5A

DC OUTPUT

TIME	VOLTS	RIPPLE (MILLIVOLTS)	RF MA
3	12	39	550
19	12,3	51	550
33	12,3	57	550
37	KICKED	OFF	
41	RESET TO	268 VOLTS 2.4A	
42	12,3	47,5	550

EQUIPMENT SOAKED OVERNIGHT AT 50°C

IV. TEMPERATURE CHECK 0900 19 JULY 62

T = 48°C IDY "ON"

AC INPUT = 250 VOLTS / 2.4 A

TIME	DC OUTPUT VOLTS	RIPPLE MILLIVOLTS	RF MA	
3	12.5	38.5	550	
15	12.5	38.2	550	
30	12.5–12.6	50	550	AC I = 2.6A
39	12.5 KICKED	56 OFF		

RESET TO 115 VOLTS AC

MODIFICATION #2 REPLACED DIODE (1N536) WITH 1N457 (CIRCUIT BREAKER THRESHOLD CONTROL CIRCUIT)

0	12.5	39	550

115 VOLTS AC

15	12.5	42	550

RESET TO 250 VOLTS / 2.3 A.

16	12.5	44	550
30	12.5 12.7 WESTON	56	550
45	12.7	59	550
60	12.7	58.5	550
75	12.8	58	550

TEST CONCLUDED 1112 AM

STAT

UNIT REQUIRED 15 MIN WARMUP BEFORE STABILIZING TEMPERATURE CHECK

IV −20°C

T MIN	AC INPUT	RT MA	DC OUTPUT VOLTS 10V ON	RIPPLE (MV, RMS) 10V ON
15	250	510	12,13	50 — STARTED 140 DROPPED TO 50
17	270	510	12,4	47
30	250	525	12,3	49
45	250	530	12,4	46
60	250	530	12,9	44
75	250	540	12,4	44

0-11,9 Volts dc AC Ripple 140 MV ERRATIC

CIRCUIT ~~BREAKER~~ TRIPS ON/OFF

$$C = \frac{5}{9}(F - 32$$

$$C = \frac{5}{9}(-4 - 32)$$

$$C = \frac{5}{9}(-36)$$

$$C = 5X - 4 = -20$$

AP-3A Power Supply Test Results

1. Size and Weight

Overall Size	Weight
$11\frac{1}{8}$" x 5" x $2\frac{7}{8}$"	$7\frac{1}{4}$ lbs

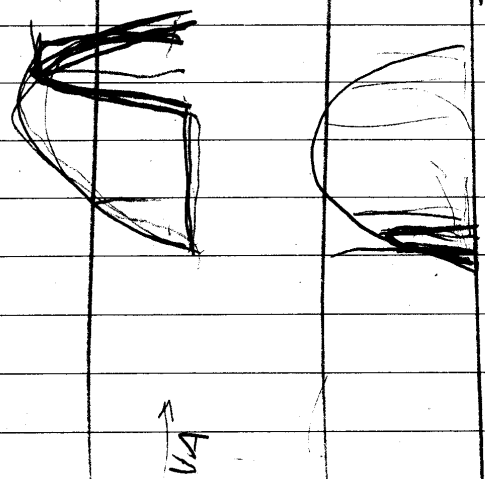
ac line current & Power

AC INPUT VOLTS	AC LINE CURRENT (AMPS)		AC INPUT WATTS		RF POWER AMPS		WATTS
	IDY	CLOSED KEY	IDY	CLOSED KEY	IDY	CLOSED KEY	
70	3.4	4.2	75	100	.520	.680	
75	3.5	4.4	75	120	.530	.710	
80	3.6	4.55	80	140	.530	.730	
90	3.65	4.8	100 -95	150 145	.535	.755	
100	3.7	5	95	150	.535	.765	
110	3.8	5.2	100	150 155	.530	.775	
115	3.9	5.25	100	160	.530	.780	
120	3.9	5.3	100	160	.530	.780	
130	4.0	5.42	110	170	.53	.785	
140	4.0	5.58	110	175	.53	.785	
150	4.1	5.7	110	175	.53	.785	
150	4.1	5.7	100	150	.53	.790	
160	4.3	5.9	100	150	.535	.790	
180	4.5	6.2	100	150	.535	.790	
200	4.7	6.45	100	150	.535	.79	
220	5.0	6.8	110	160	.538	.795	
240	5.2	7.1	110	180	.538	.795	
260	5.1	7.0 6.9	110	180	.540	.795	
270	5.0	6.8	110	200	.540	.795	
	PS		IDY				
117	on 3.7A	110 W	ON 4-5A & [illegible] off				

418 N AC INPUT VERSUS DC OUTPUT VOLT

AC	DC VOLTS			RIPPLE ~~NOISE~~ millivolts		
VOLTS	KEY OPEN	KEY CLOSED	104	KEY OPEN	KEY CLOSED	104
75/114	12.5	-12.5	12.5	8.5	85	575
137/2	12.6	12.5	12.5	8.5	84	57

270 — 3.4 = 6
120 — 2.1 = 2



BATTERY CHARGE CHECK

@ 115 VAC OPEN CIRCUIT DC VOLTS = 15,6 VOLTS

AC VOLTS	DC VOLTS	AMPS
70-270	12,6	.700

SHORT CIRCUIT CURRENT = 3,9A