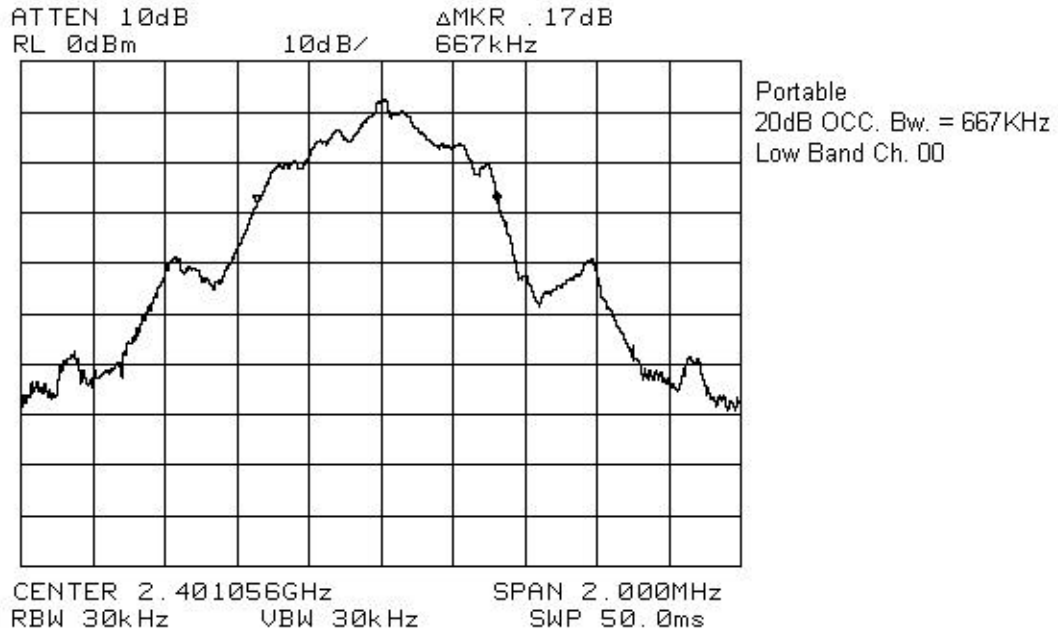
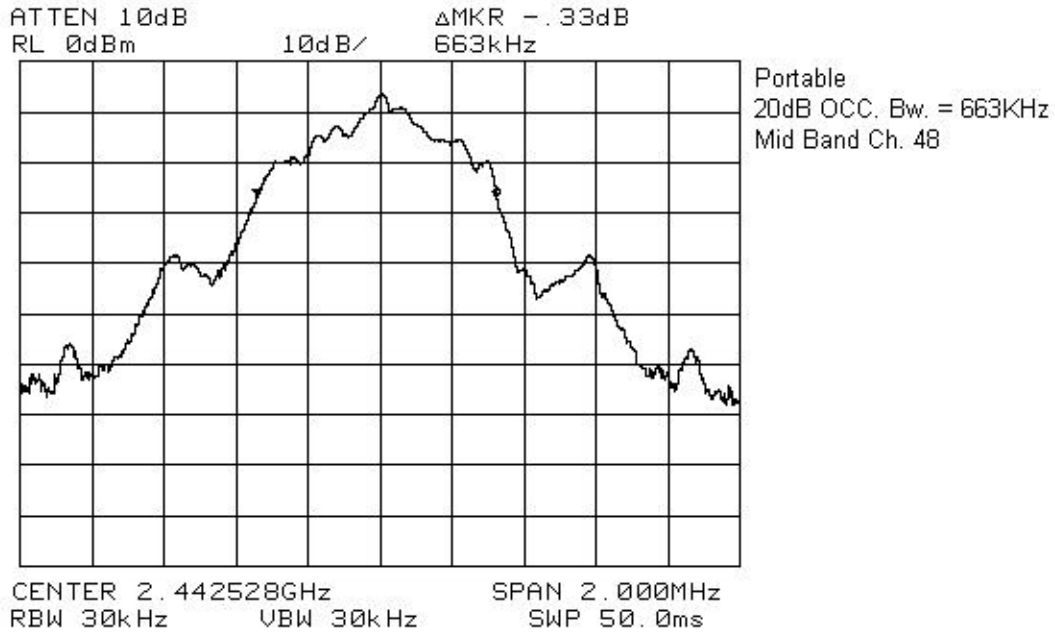


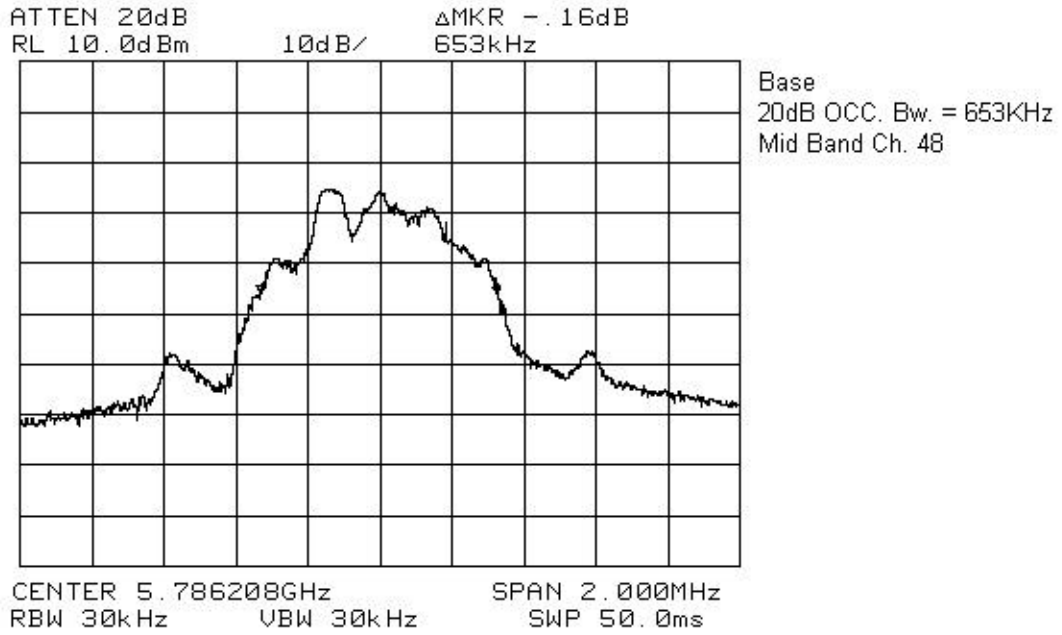
EQUIPMENT: VTECH 5831 Cordless Telephone



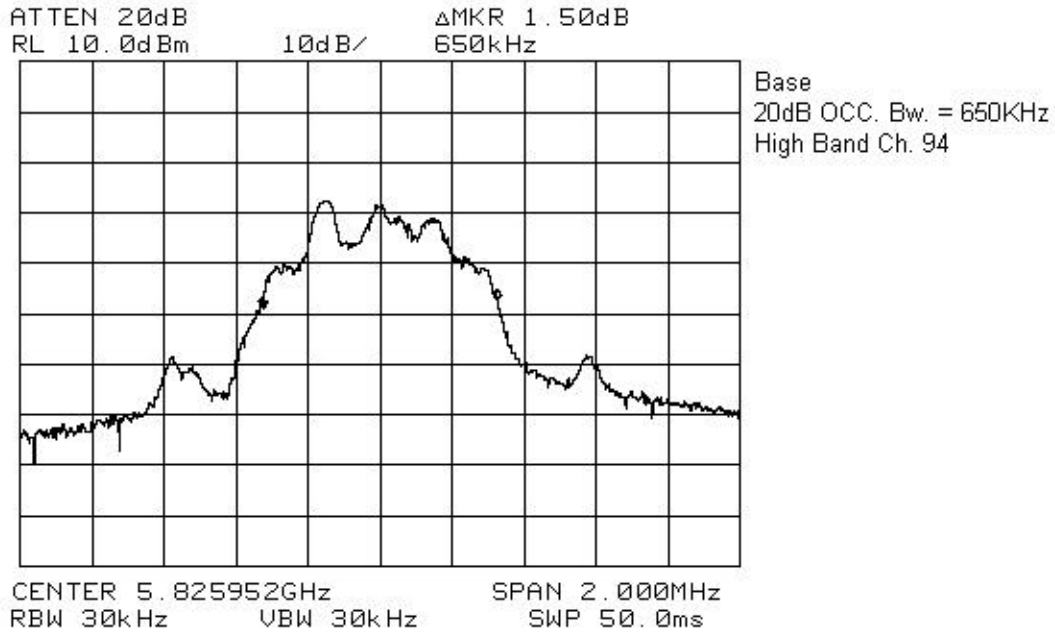
EQUIPMENT: VTECH 5831 Cordless Telephone



EQUIPMENT: VTECH 5831 Cordless Telephone



EQUIPMENT: VTECH 5831 Cordless Telephone



EQUIPMENT: VTECH 5831 Cordless Telephone

Section 8. Peak Power Output

Para. No.: 15.247 (b)

Test Performed By: Glen Westwell	Date of Test: 26 Feb 2002
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Test Results: Complies. The maximum peak power output of the transmitter is:

Base = 0.918 watts / 29.6dBm (E.I.R.P.)

Portable = 0.164 watts / 22.2dBm (E.R.I.P.)

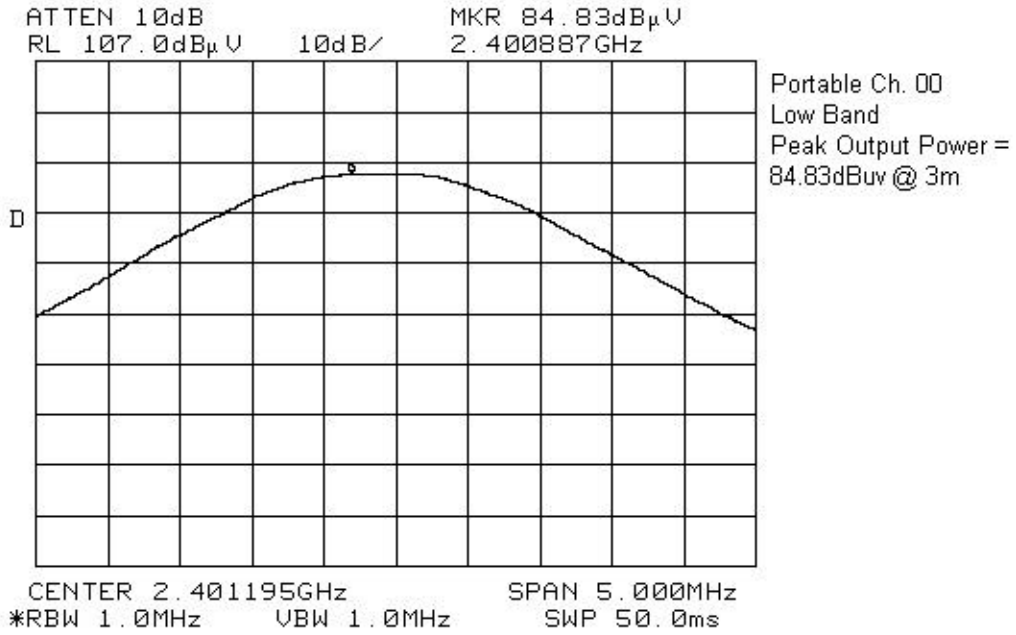
Measurement Data: Detachable antenna? Yes No

Directional Gain of Antenna: 2dBi or 1.6 Numeric.

Base (worst case):
Field Strength: 126.9 dBμV/m @ 3m or 2.2131 V/m @ 3m.

Portable (worst case):
Field Strength: 119.43 dBμV/m @ 3m or 0.93648 V/m @ 3m.

EQUIPMENT: VTECH 5831 Cordless Telephone



EQUIPMENT: VTECH 5831 Cordless Telephone

Section 9. Spurious Emissions

Para. No.: 15.247 (c)

Test Performed By: Glen Westwell	Date of Test: 27 Feb 2002
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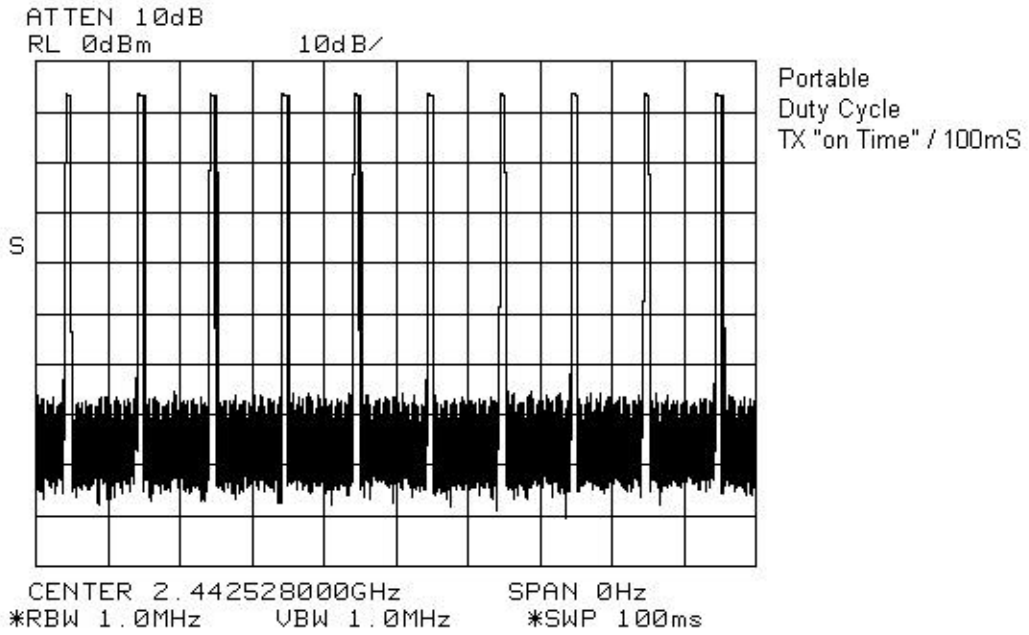
Test Results: Complies

Measurement Data: See Attached Plots & Tables.

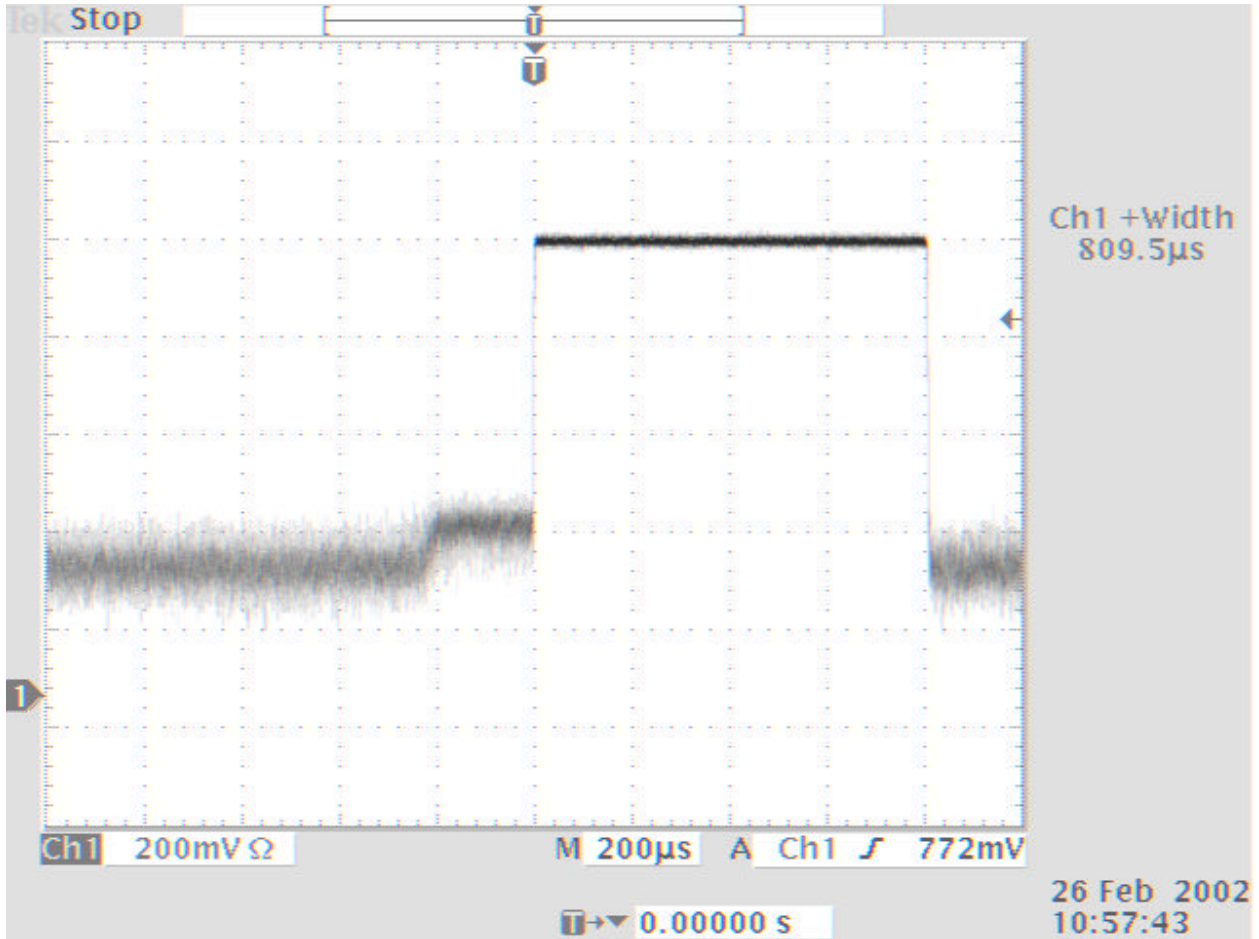
Duty Cycle Calculation:

$$\begin{aligned} (1) \quad & 20\text{Log} (\text{TX "on" Time}/100\text{mS}) \\ & 20\text{Log} (8.16\text{mS} / 100\text{mS}) \\ & = -21.8\text{dB} \\ & \therefore -20\text{dB} \end{aligned}$$

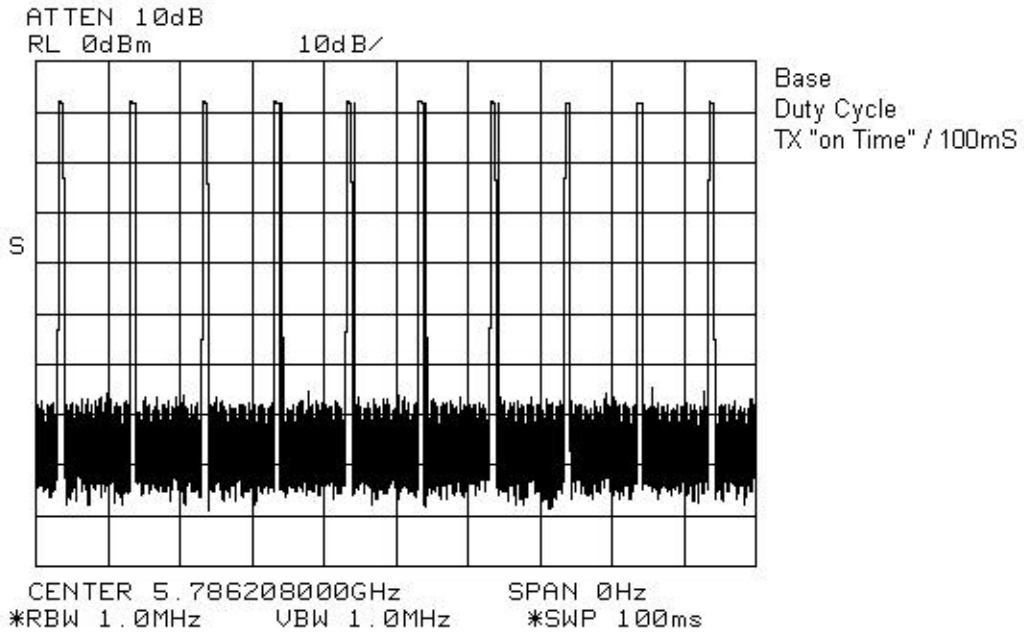
EQUIPMENT: VTECH 5831 Cordless Telephone



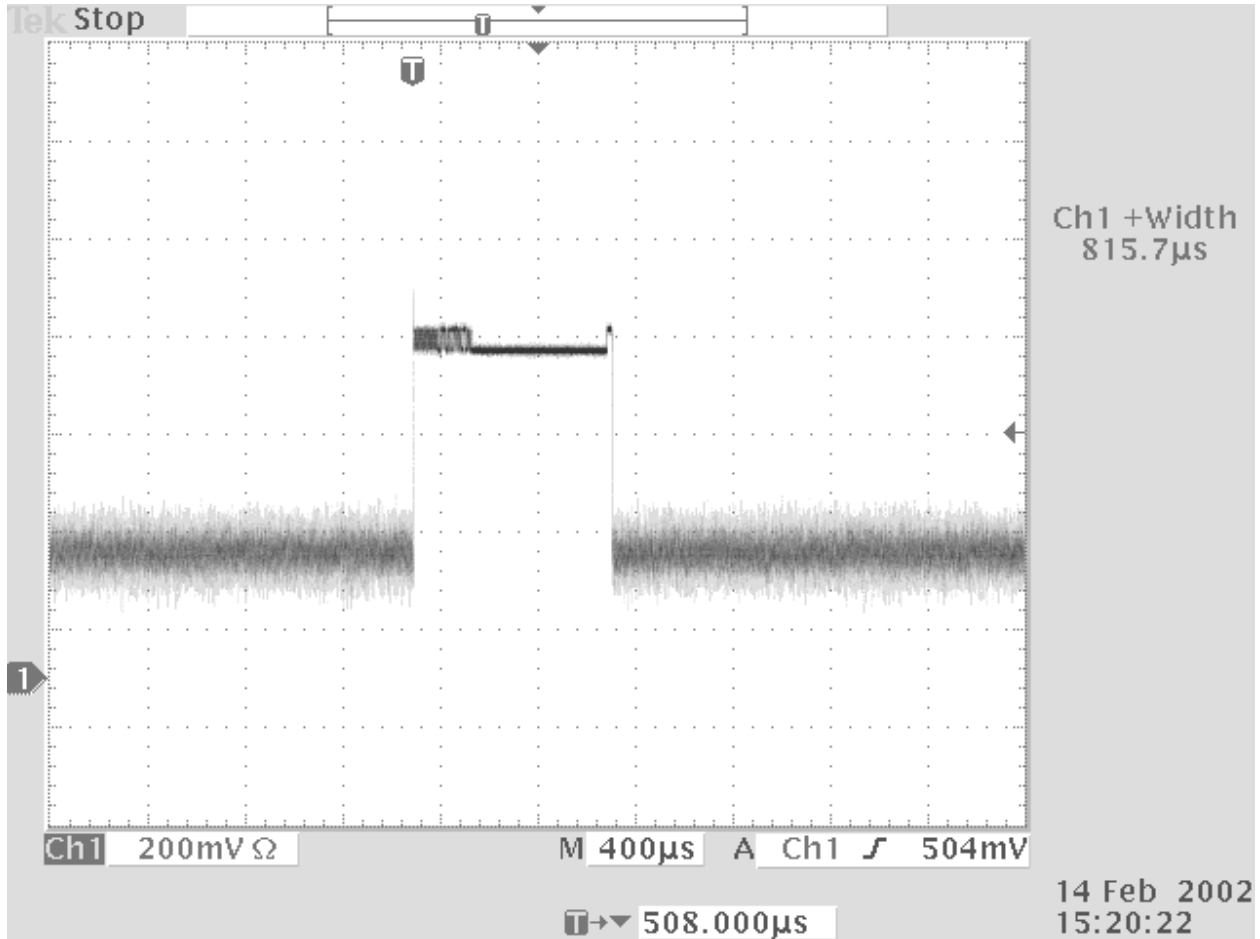
EQUIPMENT: VTECH 5831 Cordless Telephone



EQUIPMENT: VTECH 5831 Cordless Telephone

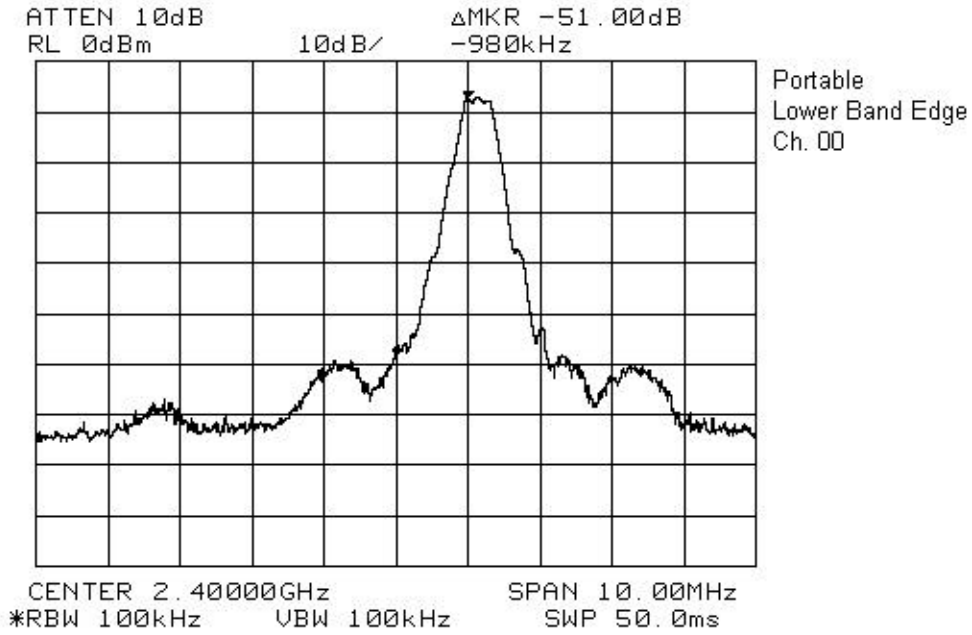


EQUIPMENT: VTECH 5831 Cordless Telephone



EQUIPMENT: VTECH 5831 Cordless Telephone

20dB Band Edge



EQUIPMENT: VTECH 5831 Cordless Telephone

Test Data - Radiated Emissions (Peak)

Test Distance (meters) : 3		Range: A		Receiver: 8565E		RBW(kHz): 1000		Detector: Peak	
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Dist. Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Portable									
Ch.00									
4802.1	Hrn 2	V	72.2	42.0	-56.1		58.1	74	15.9
4802.1	Hrn 2	H	71.1	42.0	-56.1		57.0	74	17.0
7203.16	Hrn 2	V	70.5	47.8	-56.7		61.6	74	12.4
7203.16	Hrn 2	H	70.0	47.8	-56.7		61.1	74	12.9
Ch.48									
4885.05	Hrn 2	V	72.0	42.3	-55.5		58.8	74	15.2
4885.05	Hrn 2	H	70.8	42.3	-55.5		57.6	74	16.4
7327.58	Hrn 2	V	69.2	48.2	-56.2		61.2	74	12.8
7327.58	Hrn 2	H	68.8	48.2	-56.2		60.8	74	13.2
Ch.94									
4964.54	Hrn 2	V	72.8	42.8	-54.8		60.8	74	13.2
4964.54	Hrn 2	H	72.2	42.8	-54.8		60.2	74	13.8
7446.81	Hrn 2	V	69.5	48.6	-55.8		62.3	74	11.7
7446.81	Hrn 2	H	69.0	48.6	-55.8		61.8	74	12.2
Base									
Ch.00									
11 489.47	Hrn 2	V	68.2	42.9	-42		69.1	74	4.9
11 489.47	Hrn 2	H	63.5	42.9	-42		64.6	74	9.6
17 234.21	Hrn 2	V	64.2	47.0	-41		70.2	74	3.8
17 234.21	Hrn 2	H	64.7	47.0	-41		70.7	74	3.3
Ch.48									
11 572.42	Hrn	V	64.2	42.9	-42		65.1	74	8.9

EQUIPMENT: VTECH 5831 Cordless Telephone

	2								
11 572.42	Hrn 2	H	61.5	42.9	-42		62.4	74	11.6
17 358.62	Hrn 2	V	66.8	47.0	-41		72.8	74	1.2
17 358.62	Hrn 2	H	65.8	47.0	-41		71.8	74	2.2
Ch.94									
11 651.90	Hrn 2	V	62.3	42.9	-42		63.2	74	10.8
11 651.90	Hrn 2	H	57.9	42.9	-42		58.5	74	15.2
17 477.86	Hrn 2	V	66.3	47.0	-41		72.3	74	1.7
17 477.86	Hrn 2	H	66.0	47.0	-41		72.0	74	2.0
Notes: * Re-measured using dipole antenna. ** Includes cable loss when amplifier is not used. *** Includes cable loss.									

All spurious & harmonic emissions were searched. Only those within 20dB of the limit were reported.

EQUIPMENT: VTECH 5831 Cordless Telephone

Test Data - Radiated Emissions (Average)

Test Distance (meters) : 3		Range: A		Receiver: 8565E		RBW(kHz): 1000		Detector: Peak	
Freq. (MHz)	Ant. *	Pol. (V/H)	RCVD Signal (dBµV/m)	Ant. Factor (dB)**	Amp. Gain (dB)***	Duty Cycle Corr. (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Portable									
Ch.00									
4802.1	Hrn 2	V	72.2	42.0	-56.1	-20	38.1	54	15.9
4802.1	Hrn 2	H	71.1	42.0	-56.1	-20	37.0	54	17.0
7203.16	Hrn 2	V	70.5	47.8	-56.7	-20	41.6	54	12.4
7203.16	Hrn 2	H	70.0	47.8	-56.7	-20	41.1	54	12.9
Ch.48									
4885.05	Hrn 2	V	72.0	42.3	-55.5	-20	38.8	54	15.2
4885.05	Hrn 2	H	70.8	42.3	-55.5	-20	37.6	54	16.4
7327.58	Hrn 2	V	69.2	48.2	-56.2	-20	41.2	54	12.8
7327.58	Hrn 2	H	68.8	48.2	-56.2	-20	40.8	54	13.2
Ch.94									
4964.54	Hrn 2	V	72.8	42.8	-54.8	-20	40.8	54	13.2
4964.54	Hrn 2	H	72.2	42.8	-54.8	-20	40.2	54	13.8
7446.81	Hrn 2	V	69.5	48.6	-55.8	-20	42.3	54	11.7
7446.81	Hrn 2	H	69.0	48.6	-55.8	-20	41.8	54	12.2
Base									
Ch.00									
11 489.47	Hrn 2	V	68.2	42.9	-42	-20	49.1	54	4.9
11 489.47	Hrn 2	H	63.5	42.9	-42	-20	44.6	54	9.6
17 234.21	Hrn 2	V	64.2	47.0	-41	-20	50.2	54	3.8
17 234.21	Hrn 2	H	64.7	47.0	-41	-20	50.7	54	3.3
Ch.48									

EQUIPMENT: VTECH 5831 Cordless Telephone

11 572.42	Hrn 2	V	64.2	42.9	-42	-20	45.1	54	8.9
11 572.42	Hrn 2	H	61.5	42.9	-42	-20	42.4	54	11.6
17 358.62	Hrn 2	V	66.8	47.0	-41	-20	52.8	54	1.2
17 358.62	Hrn 2	H	65.8	47.0	-41	-20	51.8	54	2.2
Ch.94									
11 651.90	Hrn 2	V	62.3	42.9	-42	-20	43.2	54	10.8
11 651.90	Hrn 2	H	57.9	42.9	-42	-20	38.5	54	15.2
17 477.86	Hrn 2	V	66.3	47.0	-41	-20	52.3	54	1.7
17 477.86	Hrn 2	H	66.0	47.0	-41	-20	52.0	54	2.0
Notes:									
* Re-measured using dipole antenna.									
** Includes cable loss when amplifier is not used.									
*** Includes cable loss.									

All spurious & harmonic emissions were searched. Only those within 20dB of the limit were reported.

EQUIPMENT: VTECH 5831 Cordless Telephone

Portable



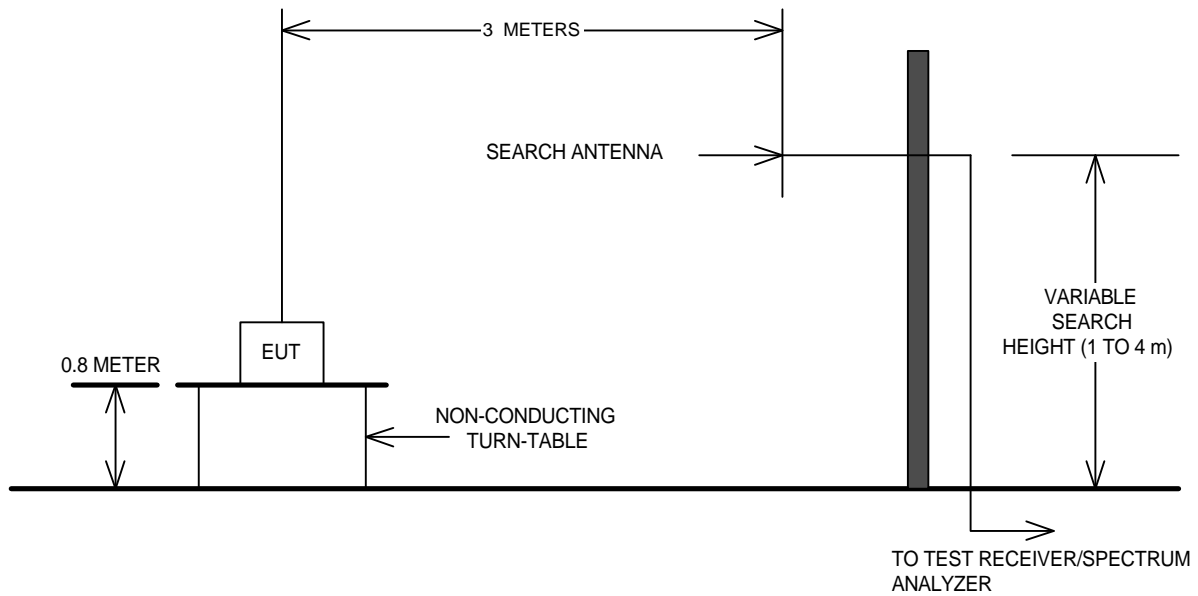
Base



EQUIPMENT: VTECH 5831 Cordless Telephone

Section 10. Block Diagrams

Test Site For Radiated Emissions



EQUIPMENT: VTECH 5831 Cordless Telephone

Section 11. Test Equipment List

RADIO TEST EQUIPMENT LIST

CAL CYCLE	EQUIPMENT	MANUFACTURER	MODEL	SERIAL	LAST CAL.	NEXT CAL.
1 Year	Spectrum Analyzer	Hewlett Packard	8565E	FA000981	June 08/01	June 08/02
1 Year	Spectrum Analyzer-1	Hewlett Packard	8566B	2311A02238	27 Nov 01	27 Nov 02
1 Year	Spectrum Analyzer Display-1	Hewlett Packard	8566B	2314A04759	27 Nov 01	27 Nov 02
1 Year	Quasi-peak adapter-1	Hewlett-Packard	85650A	2043A00302	27 Nov 01	27 Nov 02
	Plotter	Hewlett Packard	7470A	2308A30807	NCR	NCR
1 Year	LISN	EMCO	4825/2	0002-1/47	09 Oct 01	09 Oct 02
1 Year	Receiver	Rohde & Schwarz	ESVP	892661/014	Apr. 3/01	Apr. 3/02
1 Year	Horn Antenna	EMCO #2	3115	4336	Dec. 1/01	Dec. 1/02
3 Year	Horn Antenna	Electro-Metrics	SH50/60-1	FA000479	07 Jul 00	07 Jul 03
3 year	Horn Antenna	Electro-Metrics	SH50/60-2	FA000485	07 Jul 03	07 Jul 03
1 Year	Log Periodic Antenna 1	EMCO	LPA-25	1141	Aug. 28/01	Aug. 28/02
1 Year	Biconical (1) Antenna	EMCO	3109	9204-2708	Aug. 22/01	Aug. 22/02
3 Year	Signal Generator	Hewlett Packard	8673B	2332A00378	Jan. 27/01	Jan. 27/04
1 Year	RF AMP	JCA	4-8 GHz	FA001497	May 31/01	May 31/02
	RF AMP	Narda	5 - 18GHz	FA001409	COU	COU
	RF AMP	Narda	18 - 26.5GHz	FA001550	COU	COU
	RF AMP	Narda	26.5 - 40GHz	FA001556	COU	COU
	High Pass Filter	K&L	11SH10-4000	FA001340	COU	COU
	Band Pass Filter	Dorado	WR-62	1651	COU	COU
	Band Pass Filter	Dorado	WR-90	1650	COU	COU