

Test Method:	FCC Part 15 Subpart C Radiated Emissions Paragraph 15.231						
Customer:	Detection Systems				Job No.	R-7970-1	
Test Sample:	304 Mhz Keypad Transmitter				FCC ID:	ESV-0407-3	
Model No.:	RF3341				Serial No.	N/A	
Operating Mode:	Continuously Transmitter 304 Mhz Signal						
Technician:	Dennis Cortes				Date:	March 4,1999	
Notes:	Test Distance: 3 Meters Detector: Peak						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
304.0	H / 1.0	X	76.9	-4.2	72.7	4315.2	55800
304.0	H / 1.0	Y	83.2	-4.2	79.0	8912.5	55800
304.0	H / 1.0	Z	72.4	-4.2	68.2	2570.4	55800
304.0	V / 1.3	X	82.9	-4.2	78.7	8609.9	55800
304.0	V / 1.5	Y	79.9	-4.2	75.7	6095.4	55800
304.0	V / 1.0	Z	72.0	-4.2	67.8	2454.7	55800
608.0	H / 1.0	X	35.8	2.7	38.5	84.1	5000
608.0	H / 1.3	Y	37.0	2.7	39.7	96.6	5000
608.0	H / 1.2	Z	38.3	2.7	41.0	112.2	5000
608.0	V / 1.0	X	39.6	2.7	42.3	130.3	5000
608.0	V / 1.3	Y	35.2	2.7	37.9	78.5	5000
608.0	V / 1.0	Z	36.1	2.7	38.8	87.1	5000
912.0	H / 1.0	X	26.3	7.2	33.5	*47.3	5580
912.0	H / 1.0	Y	26.3	7.2	33.5	*47.3	5580
912.0	H / 1.0	Z	26.3	7.2	33.5	*47.3	5580
912.0	V / 1.0	X	26.3	7.2	33.5	*47.3	5580
912.0	V / 1.0	Y	26.3	7.2	33.5	*47.3	5580
912.0	V / 1.0	Z	26.3	7.2	33.5	*47.3	5580
1216.0	H / 1.0	X	45.2	-6.3	38.9	88.1	5000
1216.0	H / 1.0	Y	44.5	-6.3	38.2	81.3	5000
1216.0	H / 1.0	Z	43.6	-6.3	37.3	73.3	5000
1216.0	V / 1.2	X	45.8	-6.3	39.5	94.4	5000
1216.0	V / 1.0	Y	43.4	-6.3	37.1	71.6	5000
1216.0	V / 1.1	Z	43.4	-6.3	37.1	71.6	5000
1520.0	H / 1.0	X	40.6	-4.8	35.8	*61.7	5000
1520.0	H / 1.0	Y	40.6	-4.8	35.8	*61.7	5000
1520.0	H / 1.0	Z	40.6	-4.8	35.8	*61.7	5000
1520.0	V / 1.0	X	40.6	-4.8	35.8	*61.7	5000
1520.0	V / 1.0	Y	40.6	-4.8	35.8	*61.7	5000
1520.0	V / 1.0	Z	40.6	-4.8	35.8	*61.7	5000
The frequency range was scanned from 30 Mhz to 3.1 Ghz. All emissions not recorded were more Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
* =Noise Floor Measurements (Minimum system sensitivity)							

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Technician:	Dennis Cortes			Date:	March 4, 1999		
Notes:	Test Distance: 3 Meters Detector: Peak						
Test Freq.	Antenna Pol./Height	EUT Orientation	Meter Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	UV/m	uV/m
1824	H / 1.0	X	41.3	-2.7	38.6	*85.1	5580
1824	H / 1.0	Y	41.3	-2.7	38.6	*85.1	5580
1824	H / 1.0	Z	41.3	-2.7	38.6	*85.1	5580
1824	V / 1.0	X	41.3	-2.7	38.6	*85.1	5580
1824	V / 1.0	Y	41.3	-2.7	38.6	*85.1	5580
1824	V / 1.0	Z	41.3	-2.7	38.6	*85.1	5580
2128	H / 1.0	X	41.6	-1.3	40.3	*103.5	5580
2128	H / 1.0	Y	41.6	-1.3	40.3	*103.5	5580
2128	H / 1.0	Z	41.6	-1.3	40.3	*103.5	5580
2128	V / 1.0	X	41.6	-1.3	40.3	*103.5	5580
2128	V / 1.0	Y	41.6	-1.3	40.3	*103.5	5580
2128	V / 1.0	Z	41.6	-1.3	40.3	*103.5	5580
2432	H / 1.0	X	41.7	-0.4	41.3	*116.1	5580
2432	H / 1.0	Y	41.7	-0.4	41.3	*116.1	5580
2432	H / 1.0	Z	41.7	-0.4	41.3	*116.1	5580
2432	V / 1.0	X	41.7	-0.4	41.3	*116.1	5580
2432	V / 1.0	Y	41.7	-0.4	41.3	*116.1	5580
2432	V / 1.0	Z	41.7	-0.4	41.3	*116.1	5580
2736	H / 1.0	X	41.7	1.1	42.8	*138.0	5000
2736	H / 1.0	Y	41.7	1.1	42.8	*138.0	5000
2736	H / 1.0	Z	41.7	1.1	42.8	*138.0	5000
2736	V / 1.0	X	41.7	1.1	42.8	*138.0	5000
2736	V / 1.0	Y	41.7	1.1	42.8	*138.0	5000
2736	V / 1.0	Z	41.7	1.1	42.8	*138.0	5000
3040	H / 1.0	X	42.0	3.1	45.1	*179.9	5580
3040	H / 1.0	Y	42.0	3.1	45.1	*179.9	5580
3040	H / 1.0	Z	42.0	3.1	45.1	*179.9	5580
3040	V / 1.0	X	42.0	3.1	45.1	*179.9	5580
3040	V / 1.0	Y	42.0	3.1	45.1	*179.9	5580
3040	V / 1.0	Z	42.0	3.1	45.1	*179.9	5580
The frequency range was scanned from 30 Mhz to 3.1 Ghz. All emissions not recorded were more Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.							
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Operating Mode:	Continuously Transmitter 304 Mhz Signal						
Technician:	Dennis Cortes			Date:	March 4, 1999		
Notes:	Test Distance: 3 Meters		Duty Cycle: .76 %				
	Detector: Peak		Duty Cycle Correction: -22.4 dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Peak Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
304.0	H / 1.0	X	72.7	-22.4	50.3	327.3	5580
304.0	H / 1.0	Y	79.0	-22.4	56.6	676.1	5580
304.0	H / 1.0	Z	68.2	-22.4	45.8	195.0	5580
304.0	V / 1.3	X	78.7	-22.4	56.3	653.1	5580
304.0	V / 1.5	Y	75.7	-22.4	53.3	462.4	5580
304.0	V / 1.0	Z	67.8	-22.4	45.4	186.2	5580
608.0	H / 1.0	X	38.5	-22.4	16.1	6.4	500
608.0	H / 1.3	Y	39.7	-22.4	17.3	7.3	500
608.0	H / 1.2	Z	41.0	-22.4	18.6	8.5	500
608.0	V / 1.0	X	42.3	-22.4	19.9	9.9	500
608.0	V / 1.3	Y	37.9	-22.4	15.5	6.0	500
608.0	V / 1.0	Z	38.8	-22.4	16.4	6.6	500
912.0	H / 1.0	X	33.5	-22.4	11.1	*3.6	558
912.0	H / 1.0	Y	33.5	-22.4	11.1	*3.6	558
912.0	H / 1.0	Z	33.5	-22.4	11.1	*3.6	558
912.0	V / 1.0	X	33.5	-22.4	11.1	*3.6	558
912.0	V / 1.0	Y	33.5	-22.4	11.1	*3.6	558
912.0	V / 1.0	Z	33.5	-22.4	11.1	*3.6	558
1216.0	H / 1.0	X	38.9	-22.4	16.5	6.7	500
1216.0	H / 1.0	Y	38.2	-22.4	15.8	6.2	500
1216.0	H / 1.0	Z	37.3	-22.4	14.9	5.6	500
1216.0	V / 1.2	X	39.5	-22.4	17.1	7.2	500
1216.0	V / 1.0	Y	37.1	-22.4	14.7	5.4	500
1216.0	V / 1.1	Z	37.1	-22.4	14.7	5.4	500
1520.0	H / 1.0	X	35.8	-22.4	13.4	*4.7	500
1520.0	H / 1.0	Y	35.8	-22.4	13.4	*4.7	500
1520.0	H / 1.0	Z	35.8	-22.4	13.4	*4.7	500
1520.0	V / 1.0	X	35.8	-22.4	13.4	*4.7	500
1520.0	V / 1.0	Y	35.8	-22.4	13.4	*4.7	500
1520.0	V / 1.0	Z	35.8	-22.4	13.4	*4.7	500
	The frequency range was scanned from 30 Mhz to 3.1 Ghz. All emissions not recorded were more Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.						
	*=Noise Floor Measurements (Minimum system sensitivity)						

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Model No.:	N/A			Serial No.	N/A		
Operating Mode:	Continuously Transmitter 304 Mhz Signal						
Technician:	Dennis Cortes			Date:	March 4, 1999		
Notes:	Test Distance: 3 Meters		Duty Cycle: 7.6%				
	Detector: Peak		Duty Cycle Correction: -22.4 dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Limit
Mhz	(V/H) / Degrees	X / Y / Z	dBuv	dB	dBuV/m	UV/m	uV/m
1824	H / 1.0	X	38.6	-22.4	16.2	*6.5	558
1824	H / 1.0	Y	38.6	-22.4	16.2	*6.5	558
1824	H / 1.0	Z	38.6	-22.4	16.2	*6.5	558
1824	V / 1.0	X	38.6	-22.4	16.2	*6.5	558
1824	V / 1.0	Y	38.6	-22.4	16.2	*6.5	558
1824	V / 1.0	Z	38.6	-22.4	16.2	*6.5	558
2128	H / 1.0	X	40.3	-22.4	17.9	*7.9	558
2128	H / 1.0	Y	40.3	-22.4	17.9	*7.9	558
2128	H / 1.0	Z	40.3	-22.4	17.9	*7.9	558
2128	V / 1.0	X	40.3	-22.4	17.9	*7.9	558
2128	V / 1.0	Y	40.3	-22.4	17.9	*7.9	558
2128	V / 1.0	Z	40.3	-22.4	17.9	*7.9	558
2432	H / 1.0	X	41.3	-22.4	18.9	*8.8	558
2432	H / 1.0	Y	41.3	-22.4	18.9	*8.8	558
2432	H / 1.0	Z	41.3	-22.4	18.9	*8.8	558
2432	V / 1.0	X	41.3	-22.4	18.9	*8.8	558
2432	V / 1.0	Y	41.3	-22.4	18.9	*8.8	558
2432	V / 1.0	Z	41.3	-22.4	18.9	*8.8	558
2736	H / 1.0	X	42.8	-22.4	20.4	*10.5	500
2736	H / 1.0	Y	42.8	-22.4	20.4	*10.5	500
2736	H / 1.0	Z	42.8	-22.4	20.4	*10.5	500
2736	V / 1.0	X	42.8	-22.4	20.4	*10.5	500
2736	V / 1.0	Y	42.8	-22.4	20.4	*10.5	500
2736	V / 1.0	Z	42.8	-22.4	20.4	*10.5	500
3040	H / 1.0	X	45.1	-22.4	22.7	*13.6	558
3040	H / 1.0	Y	45.1	-22.4	22.7	*13.6	558
3040	H / 1.0	Z	45.1	-22.4	22.7	*13.6	558
3040	V / 1.0	X	45.1	-22.4	22.7	*13.6	558
3040	V / 1.0	Y	45.1	-22.4	22.7	*13.6	558
3040	V / 1.0	Z	45.1	-22.4	22.7	*13.6	558
	The frequency range was scanned from 30 Mhz to 3.1 Ghz. All emissions not recorded were more Than 10 dB below the specified limit. Emissions from the EUT do not exceed the specified limits.						
	*=Noise Floor Measurements (Minimum system sensitivity)						

