

Test Method:	FCC Part 15 Subpart C Radiated Emissions Paragraph 15.231						
Customer:	Detection Systems				Job No.	R-8176	
Test Sample:	304 Mhz RF Transmitter				FCC ID:	ESV-0117-4	
Model No.:	SE3U-304				Serial No.	N/A	
Operating Mode:	Pulsing at 304 Mhz						
Technician:	Dennis Cortes				Date:	July 27, 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) / Meters	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
304.0	H / 2.1	X	90.7	-4.2	86.5	21134.9	55800
304.0	H / 1.0	Y	95.0	-4.2	90.8	34673.7	55800
304.0	H / 1.0	Z	95.7	-4.2	91.5	37583.7	55800
304.0	V / 1.9	X	92.4	-4.2	88.2	25704.0	55800
304.0	V / 1.0	Y	80.4	-4.2	76.2	6456.5	55800
304.0	V / 1.2	Z	80.1	-4.2	75.9	6237.3	55800
608.0	H / 1.8	X	47.5	2.7	50.2	323.6	2000
608.0	H / 1.0	Y	50.8	2.7	53.5	473.2	2000
608.0	H / 1.0	Z	53.3	2.7	56.0	631.0	2000
608.0	V / 1.6	X	51.5	2.7	54.2	512.9	2000
608.0	V / 1.4	Y	46.8	2.7	49.5	298.5	2000
608.0	V / 1.0	Z	47.3	2.7	50.0	316.2	2000
912.0	H / 1.2	X	43.5	7.2	50.7	342.8	5580
912.0	H / 1.2	Y	40.9	7.2	48.1	254.1	5580
912.0	H / 1.1	Z	44.8	7.2	52.0	398.1	5580
912.0	V / 1.1	X	44.0	7.2	51.2	363.1	5580
912.0	V / 1.0	Y	43.6	7.2	50.8	346.7	5580
912.0	V / 1.1	Z	46.9	7.2	54.1	507.0	5580
1216.0	H / 1.4	X	52.6	-4.0	48.6	269.2	5000
1216.0	H / 1.0	Y	51.5	-4.0	47.5	237.1	5000
1216.0	H / 1.0	Z	51.7	-4.0	47.7	242.7	5000
1216.0	V / 1.0	X	55.9	-4.0	51.9	393.6	5000
1216.0	V / 1.1	Y	56.4	-4.0	52.4	416.9	5000
1216.0	V / 1.0	Z	56.0	-4.0	52.0	398.1	5000
1520.0	H / 1.3	X	58.1	-0.8	57.3	732.8	5000
1520.0	H / 1.5	Y	55.9	-0.8	55.1	568.9	5000
1520.0	H / 1.0	Z	55.4	-0.8	54.6	537.0	5000
1520.0	V / 1.2	X	57.1	-0.8	56.3	653.1	5000
1520.0	V / 1.0	Y	56.7	-0.8	55.9	623.7	5000
1520.0	V / 1.0	Z	55.5	-0.8	54.7	543.3	5000
	The frequency range was scanned from 30 Mhz to 3.1 Ghz.						
	The emissions observed from the EUT do not exceed the specified limit. All emissions not recorded were more than 20 dB below the specified limit						

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Operating Mode:	Pulsing at 304 Mhz						
Technician:	Dennis Cortes			Date:	July 27, 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) / Meters	X / Y / Z	dBuV	dB	dBuV/m	UV/m	uV/m
1824	H / 1.3	X	49.0	1.6	50.6	338.8	5580
1824	H / 1.3	Y	51.9	1.6	53.5	473.2	5580
1824	H / 1.1	Z	50.5	1.6	52.1	402.7	5580
1824	V / 1.0	X	50.9	1.6	52.5	421.7	5580
1824	V / 1.0	Y	50.5	1.6	52.1	402.7	5580
1824	V / 1.0	Z	50.5	1.6	52.1	402.7	5580
2128	H / 1.2	X	51.7	-1.3	50.4	331.1	5580
2128	H / 1.5	Y	49.2	-1.3	47.9	248.3	5580
2128	H / 1.1	Z	49.9	-1.3	48.6	269.2	5580
2128	V / 1.3	X	50.2	-1.3	48.9	278.6	5580
2128	V / 1.3	Y	50.5	-1.3	49.2	288.4	5580
2128	V / 1.0	Z	48.3	-1.3	47.0	223.9	5580
2432	H / 1.2	X	50.2	-0.4	49.8	309.0	5580
2432	H / 1.0	Y	54.5	-0.4	54.1	507.0	5580
2432	H / 1.1	Z	51.4	-0.4	51.0	354.8	5580
2432	V / 1.2	X	54.8	-0.4	54.4	524.8	5580
2432	V / 1.4	Y	48.9	-0.4	48.5	266.1	5580
2432	V / 1.3	Z	53.7	-0.4	53.3	462.4	5580
2736	H / 1.6	X	45.0	1.1	46.1	201.8	5000
2736	H / 1.0	Y	47.5	1.1	48.6	269.2	5000
2736	H / 1.6	Z	45.3	1.1	46.4	208.9	5000
2736	V / 1.0	X	47.8	1.1	48.9	278.6	5000
2736	V / 1.1	Y	46.0	1.1	47.1	226.5	5000
2736	V / 1.2	Z	49.1	1.1	50.2	323.6	5000
3040	H / 1.0	X	48.5	3.1	51.6	380.2	5580
3040	H / 1.3	Y	45.1	3.1	48.2	257.0	5580
3040	H / 1.3	Z	45.6	3.1	48.7	272.3	5580
3040	V / 1.0	X	43.8	3.1	46.9	221.3	5580
3040	V / 1.0	Y	46.2	3.1	49.3	291.7	5580
3040	V / 1.0	Z	46.6	3.1	49.7	305.5	5580
The frequency range was scanned from 30 Mhz to 3.1 Ghz.							
The emissions observed from the EUT do not exceed the specified limit. All emissions not recorded were more than 20 dB below the specified limit							

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Model No.:	SE3U-304			Serial No.	N/A		
Operating Mode:	Pulsing at 304 Mhz						
Technician:	Dennis Cortes			Date:	July 27, 1999		
Notes:	Test Distance: 3 Meters Detector: Peak			Duty Cycle: 7.6% Duty Cycle Correction: -22 4dB			
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
Mhz	(V/H) / Meters	X / Y / Z	dBuv	dB	dBuV/m	uV/m	uV/m
304.0	H / 2.1	X	86.5	-22.4	64.1	1603.2	5580
304.0	H / 1.0	Y	90.8	-22.4	68.4	2630.3	5580
304.0	H / 1.0	Z	91.5	-22.4	69.1	2851.0	5580
304.0	V / 1.9	X	88.2	-22.4	65.8	1949.8	5580
304.0	V / 1.0	Y	76.2	-22.4	53.8	489.8	5580
304.0	V / 1.2	Z	75.9	-22.4	53.5	473.2	5580
608.0	H / 1.8	X	50.2	-22.4	27.8	24.5	200
608.0	H / 1.0	Y	53.5	-22.4	31.1	35.9	200
608.0	H / 1.0	Z	56.0	-22.4	33.6	47.9	200
608.0	V / 1.6	X	54.2	-22.4	31.8	38.9	200
608.0	V / 1.4	Y	49.5	-22.4	27.1	22.6	200
608.0	V / 1.0	Z	50.0	-22.4	27.6	24.0	200
912.0	H / 1.2	X	50.7	-22.4	28.3	26.0	558
912.0	H / 1.2	Y	48.1	-22.4	25.7	19.3	558
912.0	H / 1.1	Z	52.0	-22.4	29.6	30.2	558
912.0	V / 1.1	X	51.2	-22.4	28.8	27.5	558
912.0	V / 1.0	Y	50.8	-22.4	28.4	26.3	558
912.0	V / 1.1	Z	54.1	-22.4	31.7	38.5	558
1216.0	H / 1.4	X	48.6	-22.4	26.2	20.4	500
1216.0	H / 1.0	Y	47.5	-22.4	25.1	18.0	500
1216.0	H / 1.0	Z	47.7	-22.4	25.3	18.4	500
1216.0	V / 1.0	X	51.9	-22.4	29.5	29.9	500
1216.0	V / 1.1	Y	52.4	-22.4	30.0	31.6	500
1216.0	V / 1.0	Z	52.0	-22.4	29.6	30.2	500
1520.0	H / 1.3	X	57.3	-22.4	34.9	55.6	500
1520.0	H / 1.5	Y	55.1	-22.4	32.7	43.2	500
1520.0	H / 1.0	Z	54.6	-22.4	32.2	40.7	500
1520.0	V / 1.2	X	56.3	-22.4	33.9	49.5	500
1520.0	V / 1.0	Y	55.9	-22.4	33.5	47.3	500
1520.0	V / 1.0	Z	54.7	-22.4	32.3	41.2	500
	The frequency range was scanned from 30 Mhz to 3.1 Ghz.						
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Operating Mode:	Pulsing at 304 Mhz						
Technician:	Dennis Cortes			Date:	July 27, 1999		
Notes:	Test Distance: 3 Meters		Duty Cycle: 7.6%				
	Detector: Peak		Duty Cycle Correction: -22.4dB				
Test Freq.	Antenna Pol./Height	EUT Orientation	Peak Reading	Correction Factor	Corrected Reading	Converted Reading	Average Limit
Mhz	(V/H) / Meters	X / Y / Z	dBuv	dB	dBuV/m	UV/m	uV/m
1824	H / 1.3	X	50.6	-22.4	28.2	25.7	558
1824	H / 1.3	Y	53.5	-22.4	31.1	35.9	558
1824	H / 1.1	Z	52.1	-22.4	29.7	30.5	558
1824	V / 1.0	X	52.5	-22.4	30.1	32.0	558
1824	V / 1.0	Y	52.1	-22.4	29.7	30.5	558
1824	V / 1.0	Z	52.1	-22.4	29.7	30.5	558
2128	H / 1.2	X	50.4	-22.4	28.0	25.1	558
2128	H / 1.5	Y	47.9	-22.4	25.5	18.8	558
2128	H / 1.1	Z	48.6	-22.4	26.2	20.4	558
2128	V / 1.3	X	48.9	-22.4	26.5	21.1	558
2128	V / 1.3	Y	49.2	-22.4	26.8	21.9	558
2128	V / 1.0	Z	47.0	-22.4	24.6	17.0	558
2432	H / 1.2	X	49.8	-22.4	27.4	23.4	558
2432	H / 1.0	Y	54.1	-22.4	31.7	38.5	558
2432	H / 1.1	Z	51.0	-22.4	28.6	26.9	558
2432	V / 1.2	X	54.4	-22.4	32.0	39.8	558
2432	V / 1.4	Y	48.5	-22.4	26.1	20.2	558
2432	V / 1.3	Z	53.3	-22.4	30.9	35.1	558
2736	H / 1.6	X	46.1	-22.4	23.7	15.3	500
2736	H / 1.0	Y	48.6	-22.4	26.2	20.4	500
2736	H / 1.6	Z	46.4	-22.4	24.0	15.8	500
2736	V / 1.0	X	48.9	-22.4	26.5	21.1	500
2736	V / 1.1	Y	47.1	-22.4	24.7	17.2	500
2736	V / 1.2	Z	50.2	-22.4	27.8	24.5	500
3040	H / 1.0	X	51.6	-22.4	29.2	28.8	558
3040	H / 1.3	Y	48.2	-22.4	25.8	19.5	558
3040	H / 1.3	Z	48.7	-22.4	26.3	20.7	558
3040	V / 1.0	X	46.9	-22.4	24.5	16.8	558
3040	V / 1.0	Y	49.3	-22.4	26.9	22.1	558
3040	V / 1.0	Z	49.7	-22.4	27.3	23.2	558
	The frequency range was scanned from 30 Mhz to 3.1 Ghz.						
	The emissions observed from the EUT do not exceed the specified limit. All emissions not recorded were more than 20 dB below the specified limit						