

<u>APPLICANT</u> Symbol Technologies, Inc. One Symbol Plaza Holtsville, NY 11742	<u>Manufacturer</u> Symbol Technologies, Inc. One Symbol Plaza Holtsville, NY 11742
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TEST SPECIFICATION: FCC Rules and Regulations Part 15, Subpart C

TEST PROCEDURE: FCC 15.249(a)

TEST SAMPLE DESCRIPTION

BRANDNAME: Symbol

MODEL: LS4071 FCC ID: H9PLS4071ITA

TYPE: 916.5 MHz Pulsed RF Transmitter

FREQUENCY RANGE: 902-928 MHz

POWER REQUIREMENTS: Fresh 6 VDC Battery

TESTS PERFORMED

- 15.209(a) Radiated Emissions, Spurious Case
- 15.249(a) Radiated Emissions, Fundamental and Harmonics
- 15.249(c) Occupied Bandwidth

## REPORT OF MEASUREMENTS

Applicant: Symbol Technologies, Inc..  
Device: Pulsed RF Transmitter  
FCC ID: H9PLS4071ITA  
Power Requirements: Fresh 6 VDC Battery  
Applicable Rule Section: Part 15, Subpart C, Section 15.249

## TEST RESULTS

- 15.249(a): Field strength of emissions from the intentional radiator operating in the 902-928 MHz frequency band did not exceed 50 mV/m average for the fundamental and 500 uV/m average for harmonics.
- 15.249(b): Field strength readings were recorded at a distance of three meters from the Intentional Radiator unless otherwise specified.
- 15.249(c): Emissions radiated outside the specified frequency band except for harmonics, were attenuated by at least 50dB or to the emissions limits of 15.209, whichever was the lesser attenuation.
- 15.249(d): All measurements were taken utilizing a peak detector. The peak field strength did not exceed the average limits under any condition of modulation.

## GENERAL NOTES

1. All user accessible controls were adjusted to produce maximum emissions.
2. The unit operates in the band of 902-928 MHz band at a single frequency of 916.5 MHz.
3. The frequency range was scanned from 30 MHz to 9.2 GHz. All emissions not reported were more than 20dB below the specified limit.

EXHIBIT 4

Radiated Emissions, Spurious Case

Para. 15.209(a)

(Please see separate e-file attachment named RE Spurious.doc)

EXHIBIT 4

Radiated Emissions, Fundamental & Harmonic

Para. 15.249(a)

(Please see separate e-file attachment named REFundHarm.doc)

EXHIBIT 4

Occupied Bandwidth

Para. 15.249(c)

(Please see separate e-file attachment named OccBw.pdf)

## EQUIPMENT LISTS

### FCC15.209(a) Radiated Emissions, Spurious, 30MHZ to 9.2GHz

EN	Type	Manufacturer	Description.	Model No.	Cal Date	Due Date
062	High Gain Horn Antenna	Microlab/FXR	1.7 GHz - 2.6 GHz	R638A	01/25/2000	01/25/2001
063	High Gain Horn Antenna	Microlab/FXR	2.6 GHz-3.95 GHz	S638A	01/26/2000	01/26/2001
064	High Gain Horn Antenna	Microlab/FXR	3.95 GHz - 5.85 GHz	H638A	01/26/2000	01/26/2001
065	High Gain Horn Antenna	Microlab/FXR	5.85 GHz - 8.2 GHz	C638A	01/26/2000	01/26/2001
066	High Gain Horn Antenna	Microlab/FXR	8.2 GHz - 12.4 GHz	X638A	01/26/2000	01/26/2001
067	Open Area Test Site	Retlif	3 Meter	RNY	10/15/1997	10/15/2000
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/22/1999	06/22/2000
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	03/20/2000	09/20/2000
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	03/08/2000	03/08/2001
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	03/20/2000	09/20/2000
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/22/1999	06/22/2000
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	10/22/1998	05/22/2000
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	06/16/1999	06/16/2001
617	Interference Analyzer	Electro-Metrics	10 kHz - 1 GHz	EMC-30	01/17/2000	01/17/2001

### FCC15.249(a) Fundamental and Harmonics, 30MHz to 9.2GHz

EN	Type	Manufacturer	Description.	Model No.	Cal Date	Due Date
062	High Gain Horn Antenna	Microlab/FXR	1.7 GHz - 2.6 GHz	R638A	01/25/2000	01/25/2001
063	High Gain Horn Antenna	Microlab/FXR	2.6 GHz-3.95 GHz	S638A	01/26/2000	01/26/2001
064	High Gain Horn Antenna	Microlab/FXR	3.95 GHz - 5.85 GHz	H638A	01/26/2000	01/26/2001
065	High Gain Horn Antenna	Microlab/FXR	5.85 GHz - 8.2 GHz	C638A	01/26/2000	01/26/2001
066	High Gain Horn Antenna	Microlab/FXR	8.2 GHz - 12.4 GHz	X638A	01/26/2000	01/26/2001
067	Open Area Test Site	Retlif	3 Meter	RNY	10/15/1997	10/15/2000
133	Broadband Pre-Amplifier	Electro-Metrics	10 kHz - 1 GHz, 26dB	BPA-1000	06/22/1999	06/22/2000
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	03/20/2000	09/20/2000
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	03/08/2000	03/08/2001
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	03/20/2000	09/20/2000
206B	6.0 dB Attenuator	Texscan	0 - 1.0 GHz	FP-50 - 6 dB	06/22/1999	06/22/2000
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	10/22/1998	05/22/2000
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	06/16/1999	06/16/2001