

MEASUREMENT/TECHNICAL REPORT



Intermec Technologies Corporation RF Identification (RFID) 915 PC Card –6 915 MHz Spread Spectrum Transmitter

REPORT NO: 010416-1

DATE: April 16, 2001

APPENDIX G

THE FOLLOWING PAGES INCLUDE;

Quasi-peak, average and peak radiated spurious emissions.

Configurations

Pages 2-7 Radio as a module positioned horizontally on a PCMCIA extender card. Mobile Mark 2-dBi panel antenna.

Pages 8-13 Radio as a module positioned vertically on a PCMCIA extender card. Mobile Mark 2-dBi panel antenna.

Pages 14-19 Radio module extended horizontally with Astron 3 dBi raised panel antenna.

Pages 20-25 Radio within 6110 mobile computer.
Terminal placed horizontally with Fractal 2.2-dBi dipole antenna.

Pages 26-31 Radio within 6110 mobile computer.
Terminal placed vertically with Fractal 2.2-dBi dipole antenna.

Pages 32-37 Radio within 6110 mobile computer.
Terminal placed horizontally with Fractal 0-dBi panel antenna.

Pages 38-43 Radio within 6110 mobile computer.
Terminal placed vertically with Fractal 0-dBi panel antenna.

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/13/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	7.8	1.9	25.5		35.2	60	-24.8
(16MHz*72)	Hor	12.3	1.9	25.5		39.7	60	-20.3
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	41.8	2.2	28.2	34.1	38.1	60	-21.9
(Fc * 2)	Hor	44.6	2.2	28.2	34.1	40.9	60	-19.1
2707.875	Vert	48.1	4.0	31.3	33.8	49.6	60	-10.4
(Fc * 3)	Hor	51.5	4.0	31.3	33.8	53.0	60	-7.0
3610.5	Vert	41.8	4.3	33.4	33.5	46.0	60	-14.0
(Fc * 4)	Hor	42.6	4.3	33.4	33.5	46.8	60	-13.2
4513.125	Vert	33.8	5.1	33.9	33.2	39.6	60	-20.4
(Fc * 5)	Hor	34.6	5.1	33.9	33.2	40.4	60	-19.6
5415.75	Vert	30.9	5.5	36.0	33.1	39.3	60	-20.7
(Fc * 6)	Hor	32.0	5.5	36.0	33.1	40.4	60	-19.6
6318.375	Vert	34.0	6.0	36.8	33.2	43.6	60	-16.4
(Fc * 7)	Hor	35.0	6.0	36.8	33.2	44.6	60	-15.4
7221	Vert	30.9	6.4	37.6	33.4	41.5	60	-18.5
(Fc * 8)	Hor	33.3	6.4	37.6	33.4	43.9	60	-16.1
8123.625	Vert	30.9	6.9	37.8	33.6	42.0	60	-18.0
(Fc * 9)	Hor	30.9	6.9	37.8	33.6	42.0	60	-18.0
9026.25	Vert	30.9	7.8	39.8	33.7	44.8	60	-15.2
(Fc * 10)	Hor	30.9	7.8	39.8	33.7	44.8	60	-15.2

Middle Channel 40		915.000 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	7.8	1.9	25.5		35.2	60	-24.8
(16MHz*72)	Hor	12.2	1.9	25.5		39.6	60	-20.4
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	44.8	2.2	28.3	34.1	41.2	60	-18.8
(Fc * 2)	Hor	47.9	2.2	28.3	34.1	44.3	60	-15.7
2745	Vert	45.7	3.9	31.5	33.8	47.3	60	-12.7
(Fc * 3)	Hor	50.9	3.9	31.5	33.8	52.5	60	-7.5
3660	Vert	39.9	4.3	33.5	33.5	44.2	60	-15.8
(Fc * 4)	Hor	41.3	4.3	33.5	33.5	45.6	60	-14.4
4575	Vert	33.1	4.9	34.1	33.2	38.9	60	-21.1
(Fc * 5)	Hor	32.8	4.9	34.1	33.2	38.6	60	-21.4
5490	Vert	35.1	5.6	36.2	33.1	43.8	60	-16.2
(Fc * 6)	Hor	35.3	5.6	36.2	33.1	44.0	60	-16.0
6405	Vert	36.0	6.2	36.7	33.3	45.6	60	-14.4
(Fc * 7)	Hor	35.4	6.2	36.7	33.3	45.0	60	-15.0
7320	Vert	33.3	6.5	37.7	33.4	44.1	60	-15.9
(Fc * 8)	Hor	35.4	6.5	37.7	33.4	46.2	60	-13.8
8235	Vert	30.9	7.0	37.9	33.4	42.4	60	-17.6
(Fc * 9)	Hor	30.9	7.0	37.9	33.4	42.4	60	-17.6
9150	Vert	30.9	7.7	39.4	33.8	44.2	60	-15.8
(Fc * 10)	Hor	30.9	7.7	39.4	33.8	44.2	60	-15.8

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/13/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	8.0	1.9	25.5		35.4	60	-24.6
(16MHz*72)	Hor	13.1	1.9	25.5		40.5	60	-19.5
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	46.0	2.4	28.4	34.1	42.7	60	-17.3
(Fc * 2)	Hor	47.9	2.4	28.4	34.1	44.6	60	-15.4
2782.125	Vert	46.6	3.9	31.6	33.8	48.3	60	-11.7
(Fc * 3)	Hor	48.5	3.9	31.6	33.8	50.2	60	-9.8
3709.5	Vert	38.5	4.2	33.7	33.4	43.0	60	-17.0
(Fc * 4)	Hor	36.6	4.2	33.7	33.4	41.1	60	-18.9
4636.875	Vert	37.4	5.0	34.2	33.2	43.4	60	-16.6
(Fc * 5)	Hor	39.2	5.0	34.2	33.2	45.2	60	-14.8
5564.25	Vert	36.5	5.6	36.3	33.1	45.3	60	-14.7
(Fc * 6)	Hor	37.3	5.6	36.3	33.1	46.1	60	-13.9
6491.625	Vert	35.6	6.1	36.6	33.3	45.0	60	-15.0
(Fc * 7)	Hor	36.9	6.1	36.6	33.3	46.3	60	-13.7
7419	Vert	30.9	6.5	37.9	33.4	41.9	60	-18.1
(Fc * 8)	Hor	31.4	6.5	37.9	33.4	42.4	60	-17.6
8346.375	Vert	30.9	7.0	38.0	33.5	42.4	60	-17.6
(Fc * 9)	Hor	30.9	7.0	38.0	33.5	42.4	60	-17.6
9273.75	Vert	30.9	7.6	39.0	33.9	43.6	60	-16.4
(Fc * 10)	Hor	30.9	7.6	39.0	33.9	43.6	60	-16.4

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

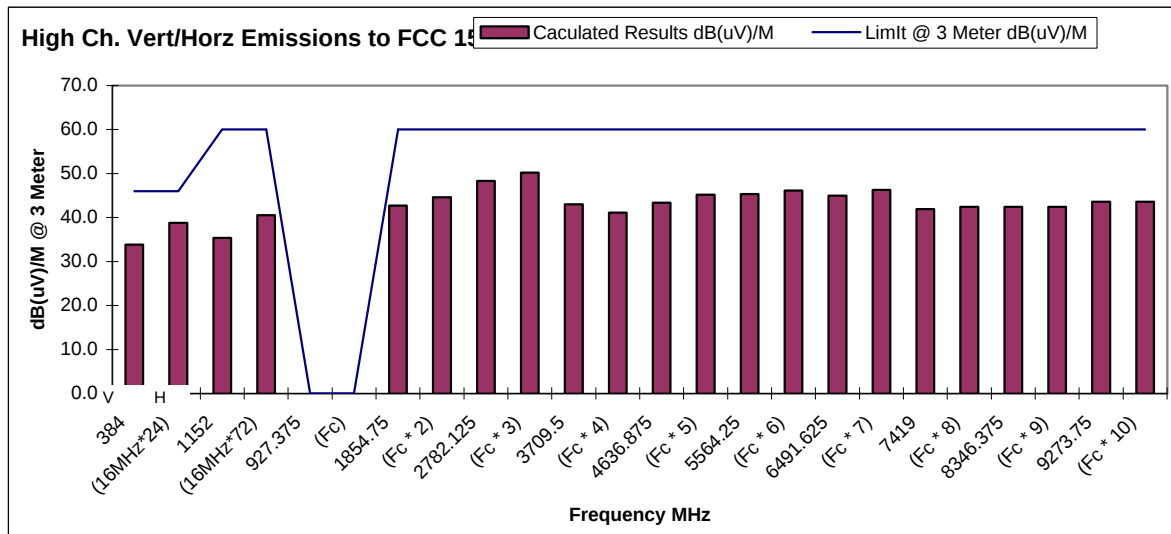
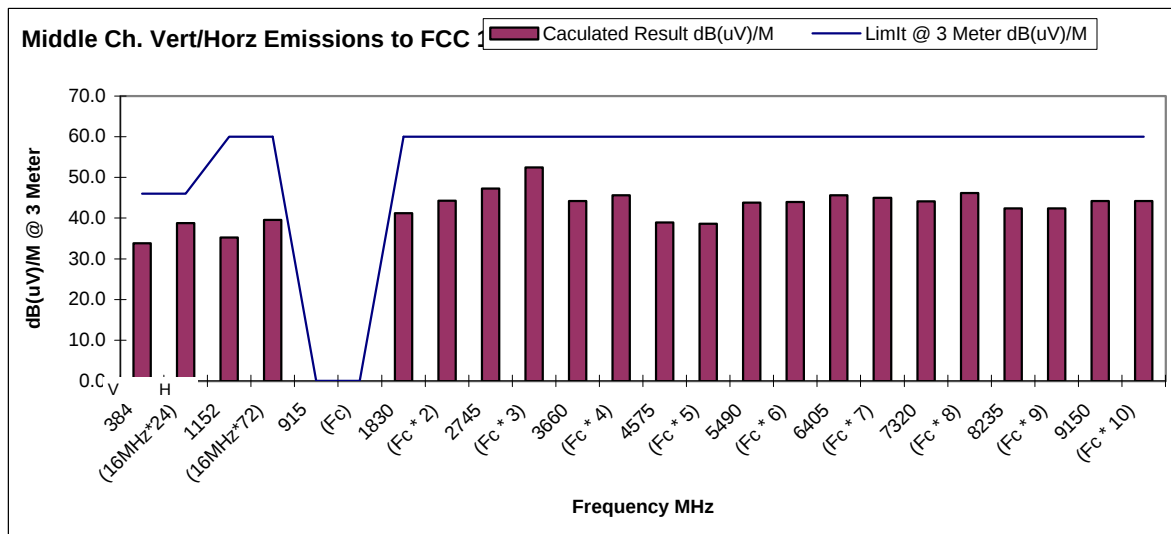
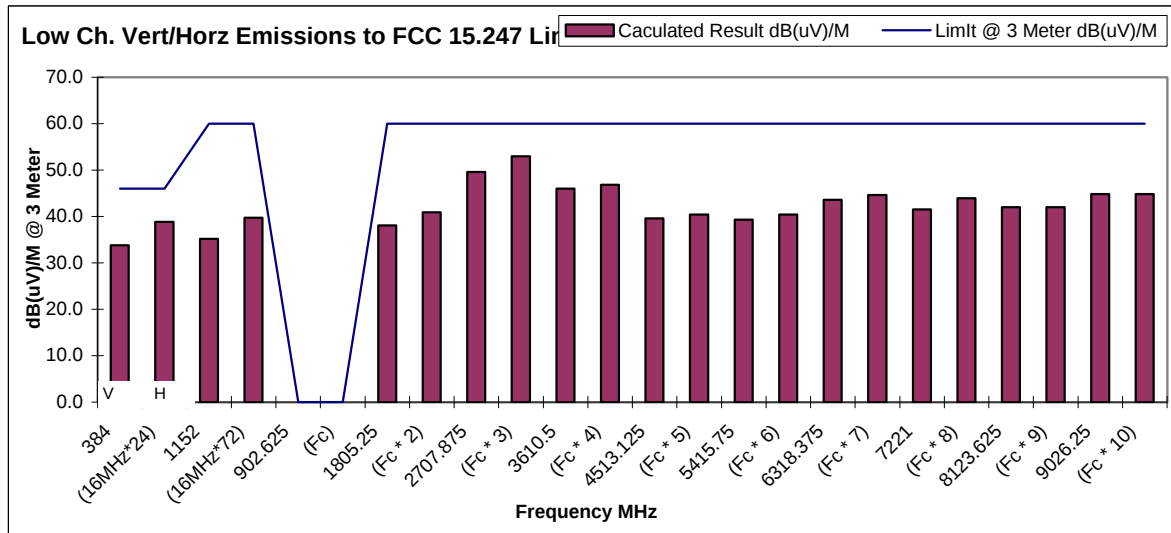
Test Date (mm/dd/yy): 04/13/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/13/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	17.2	1.9	25.5		44.6	74	-29.4
(16MHz*72)	Hor	19.2	1.9	25.5		46.6	74	-27.4
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	46.6	2.2	28.2	34.1	42.9	74	-31.1
(Fc * 2)	Hor	48.4	2.2	28.2	34.1	44.7	74	-29.3
2707.875	Vert	51.0	4.0	31.3	33.8	52.5	74	-21.5
(Fc * 3)	Hor	53.3	4.0	31.3	33.8	54.8	74	-19.2
3610.5	Vert	45.7	4.3	33.4	33.5	49.9	74	-24.1
(Fc * 4)	Hor	46.4	4.3	33.4	33.5	50.6	74	-23.4
4513.125	Vert	42.5	5.1	33.9	33.2	48.3	74	-25.7
(Fc * 5)	Hor	42.8	5.1	33.9	33.2	48.6	74	-25.4
5415.75	Vert	40.8	5.5	36.0	33.1	49.2	74	-24.8
(Fc * 6)	Hor	40.9	5.5	36.0	33.1	49.3	74	-24.7
6318.375	Vert	43.9	6.0	36.8	33.2	53.5	74	-20.5
(Fc * 7)	Hor	43.6	6.0	36.8	33.2	53.2	74	-20.8
7221	Vert	41.1	6.4	37.6	33.4	51.7	74	-22.3
(Fc * 8)	Hor	42.9	6.4	37.6	33.4	53.5	74	-20.5
8123.625	Vert	41.1	6.9	37.8	33.6	52.2	74	-21.8
(Fc * 9)	Hor	41.1	6.9	37.8	33.6	52.2	74	-21.8
9026.25	Vert	41.1	7.8	39.8	33.7	55.0	74	-19.0
(Fc * 10)	Hor	41.1	7.8	39.8	33.7	55.0	74	-19.0

Middle Channel 40		915 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	17.1	1.9	25.5		44.5	74	-29.5
(16MHz*72)	Hor	18.5	1.9	25.5		45.9	74	-28.1
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	48.5	2.2	28.3	34.1	44.9	74	-29.1
(Fc * 2)	Hor	50.7	2.2	28.3	34.1	47.1	74	-26.9
2745	Vert	49.0	3.9	31.5	33.8	50.6	74	-23.4
(Fc * 3)	Hor	52.9	3.9	31.5	33.8	54.5	74	-19.5
3660	Vert	44.5	4.3	33.5	33.5	48.8	74	-25.2
(Fc * 4)	Hor	45.5	4.3	33.5	33.5	49.8	74	-24.2
4575	Vert	42.1	4.9	34.1	33.2	47.9	74	-26.1
(Fc * 5)	Hor	41.5	4.9	34.1	33.2	47.3	74	-26.7
5490	Vert	42.6	5.6	36.2	33.1	51.3	74	-22.7
(Fc * 6)	Hor	42.5	5.6	36.2	33.1	51.2	74	-22.8
6405	Vert	43.6	6.2	36.7	33.3	53.2	74	-20.8
(Fc * 7)	Hor	43.1	6.2	36.7	33.3	52.7	74	-21.3
7320	Vert	42.7	6.5	37.7	33.4	53.5	74	-20.5
(Fc * 8)	Hor	43.7	6.5	37.7	33.4	54.5	74	-19.5
8235	Vert	41.6	7.0	37.9	33.4	53.1	74	-20.9
(Fc * 9)	Hor	41.6	7.0	37.9	33.4	53.1	74	-20.9
9150	Vert	41.6	7.7	39.4	33.8	54.9	74	-19.1
(Fc * 10)	Hor	41.6	7.7	39.4	33.8	54.9	74	-19.1

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/13/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	16.7	1.9	25.5		44.1	74	-29.9
(16MHz*72)	Hor	18.6	1.9	25.5		46.0	74	-28.0
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	49.7	2.4	28.4	34.1	46.4	74	-27.6
(Fc * 2)	Hor	50.3	2.4	28.4	34.1	47.0	74	-27.0
2782.125	Vert	48.9	3.9	31.6	33.8	50.6	74	-23.4
(Fc * 3)	Hor	50.3	3.9	31.6	33.8	52.0	74	-22.0
3709.5	Vert	44.8	4.2	33.7	33.4	49.3	74	-24.7
(Fc * 4)	Hor	44.3	4.2	33.7	33.4	48.8	74	-25.2
4636.875	Vert	44.2	5.0	34.2	33.2	50.2	74	-23.8
(Fc * 5)	Hor	45.0	5.0	34.2	33.2	51.0	74	-23.0
5564.25	Vert	42.7	5.6	36.3	33.1	51.5	74	-22.5
(Fc * 6)	Hor	43.2	5.6	36.3	33.1	52.0	74	-22.0
6491.625	Vert	43.3	6.1	36.6	33.3	52.7	74	-21.3
(Fc * 7)	Hor	44.2	6.1	36.6	33.3	53.6	74	-20.4
7419	Vert	41.9	6.5	37.9	33.4	52.9	74	-21.1
(Fc * 8)	Hor	41.7	6.5	37.9	33.4	52.7	74	-21.3
8346.4	Vert	41.9	7.0	38.0	33.5	53.4	74	-20.6
(Fc * 9)	Hor	41.9	7.0	38.0	33.5	53.4	74	-20.6
9273.8	Vert	41.9	7.6	39.0	33.9	54.6	74	-19.4
(Fc * 10)	Hor	41.9	7.6	39.0	33.9	54.6	74	-19.4

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

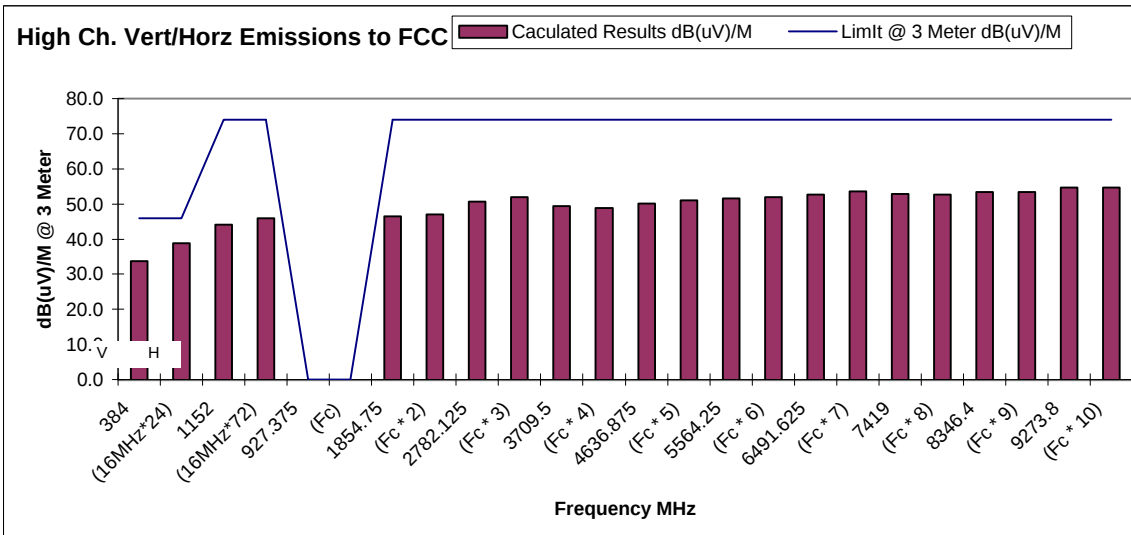
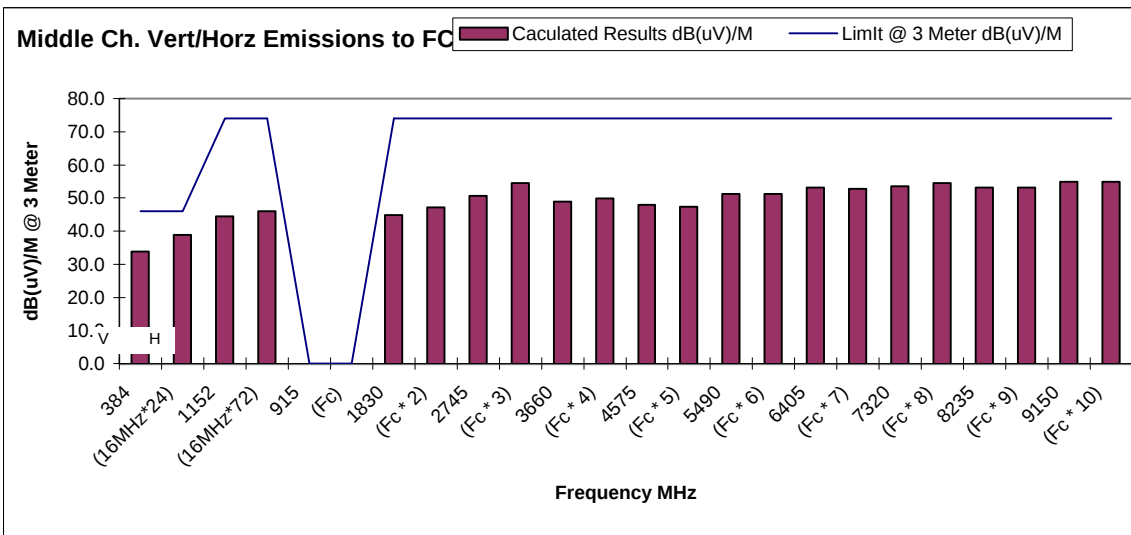
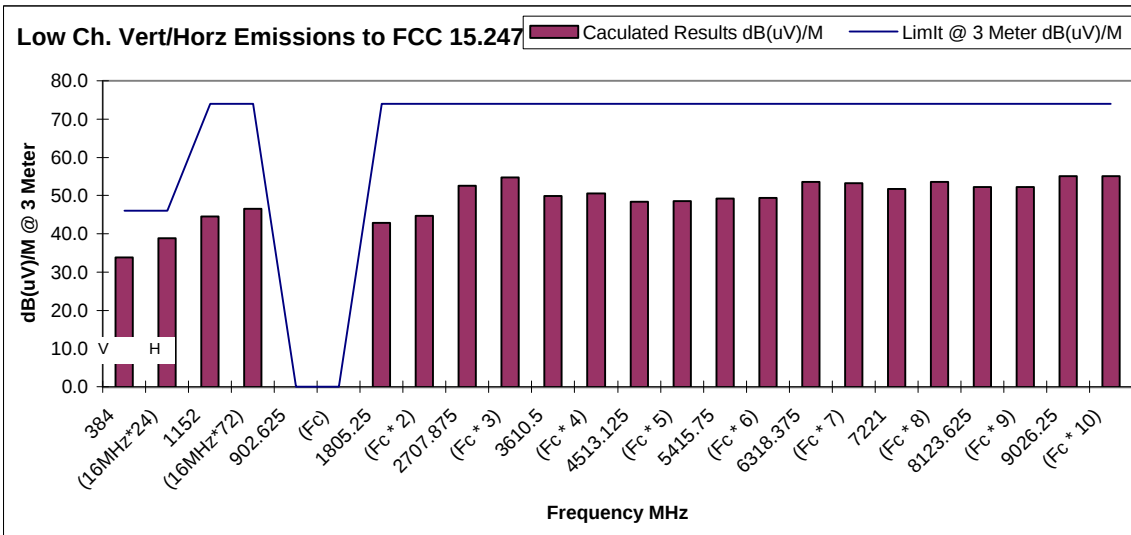
Test Date (mm/dd/yy): 04/13/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended vertically with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/18/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	10.3	1.9	25.5		37.7	60	-22.3
(16MHz*72)	Hor	9.7	1.9	25.5		37.1	60	-22.9
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	48.1	2.2	28.2	34.1	44.4	60	-15.6
(Fc * 2)	Hor	50.1	2.2	28.2	34.1	46.4	60	-13.6
2707.875	Vert	49.2	4.0	31.3	33.8	50.7	60	-9.3
(Fc * 3)	Hor	48.0	4.0	31.3	33.8	49.5	60	-10.5
3610.5	Vert	42.6	4.3	33.4	33.5	46.8	60	-13.2
(Fc * 4)	Hor	41.6	4.3	33.4	33.5	45.8	60	-14.2
4513.125	Vert	36.2	5.1	33.9	33.2	42.0	60	-18.0
(Fc * 5)	Hor	32.8	5.1	33.9	33.2	38.6	60	-21.4
5415.75	Vert	33.9	5.5	36.0	33.1	42.3	60	-17.7
(Fc * 6)	Hor	31.8	5.5	36.0	33.1	40.2	60	-19.8
6318.375	Vert	32.5	6.0	36.8	33.2	42.1	60	-17.9
(Fc * 7)	Hor	30.5	6.0	36.8	33.2	40.1	60	-19.9
7221	Vert	32.3	6.4	37.6	33.4	42.9	60	-17.1
(Fc * 8)	Hor	32.0	6.4	37.6	33.4	42.6	60	-17.4
8123.625	Vert	30.5	6.9	37.8	33.6	41.6	60	-18.4
(Fc * 9)	Hor	30.5	6.9	37.8	33.6	41.6	60	-18.4
9026.25	Vert	30.5	7.8	39.8	33.7	44.4	60	-15.6
(Fc * 10)	Hor	30.5	7.8	39.8	33.7	44.4	60	-15.6

Middle Channel 40		915.000 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	10.3	1.9	25.5		37.7	60	-22.3
(16MHz*72)	Hor	9.7	1.9	25.5		37.1	60	-22.9
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	49.7	2.2	28.3	34.1	46.1	60	-13.9
(Fc * 2)	Hor	50.4	2.2	28.3	34.1	46.8	60	-13.2
2745	Vert	48.3	3.9	31.5	33.8	49.9	60	-10.1
(Fc * 3)	Hor	46.1	3.9	31.5	33.8	47.7	60	-12.3
3660	Vert	40.4	4.3	33.5	33.5	44.7	60	-15.3
(Fc * 4)	Hor	41.0	4.3	33.5	33.5	45.3	60	-14.7
4575	Vert	37.3	4.9	34.1	33.2	43.1	60	-16.9
(Fc * 5)	Hor	33.4	4.9	34.1	33.2	39.2	60	-20.8
5490	Vert	38.9	5.6	36.2	33.1	47.6	60	-12.4
(Fc * 6)	Hor	34.8	5.6	36.2	33.1	43.5	60	-16.5
6405	Vert	38.4	6.2	36.7	33.3	48.0	60	-12.0
(Fc * 7)	Hor	31.3	6.2	36.7	33.3	40.9	60	-19.1
7320	Vert	34.1	6.5	37.7	33.4	44.9	60	-15.1
(Fc * 8)	Hor	31.0	6.5	37.7	33.4	41.8	60	-18.2
8235	Vert	31.0	7.0	37.9	33.4	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	37.9	33.4	42.5	60	-17.5
9150	Vert	31.0	7.7	39.4	33.8	44.3	60	-15.7
(Fc * 10)	Hor	31.0	7.7	39.4	33.8	44.3	60	-15.7

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended vertically with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/18/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	10.3	1.9	25.5		37.7	60	-22.3
(16MHz*72)	Hor	9.7	1.9	25.5		37.1	60	-22.9
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	50.5	2.4	28.4	34.1	47.2	60	-12.8
(Fc * 2)	Hor	50.3	2.4	28.4	34.1	47.0	60	-13.0
2782.125	Vert	51.8	3.9	31.6	33.8	53.5	60	-6.5
(Fc * 3)	Hor	50.8	3.9	31.6	33.8	52.5	60	-7.5
3709.5	Vert	39.6	4.2	33.7	33.4	44.1	60	-15.9
(Fc * 4)	Hor	40.1	4.2	33.7	33.4	44.6	60	-15.4
4636.875	Vert	39.9	5.0	34.2	33.2	45.9	60	-14.1
(Fc * 5)	Hor	35.1	5.0	34.2	33.2	41.1	60	-18.9
5564.25	Vert	39.1	5.6	36.3	33.1	47.9	60	-12.1
(Fc * 6)	Hor	37.4	5.6	36.3	33.1	46.2	60	-13.8
6491.625	Vert	35.5	6.1	36.6	33.3	44.9	60	-15.1
(Fc * 7)	Hor	31.4	6.1	36.6	33.3	40.8	60	-19.2
7419	Vert	31.0	6.5	37.9	33.4	42.0	60	-18.0
(Fc * 8)	Hor	31.0	6.5	37.9	33.4	42.0	60	-18.0
8346.375	Vert	31.0	7.0	38.0	33.5	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	38.0	33.5	42.5	60	-17.5
9273.75	Vert	31.0	7.6	39.0	33.9	43.7	60	-16.3
(Fc * 10)	Hor	31.0	7.6	39.0	33.9	43.7	60	-16.3

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended vertically with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

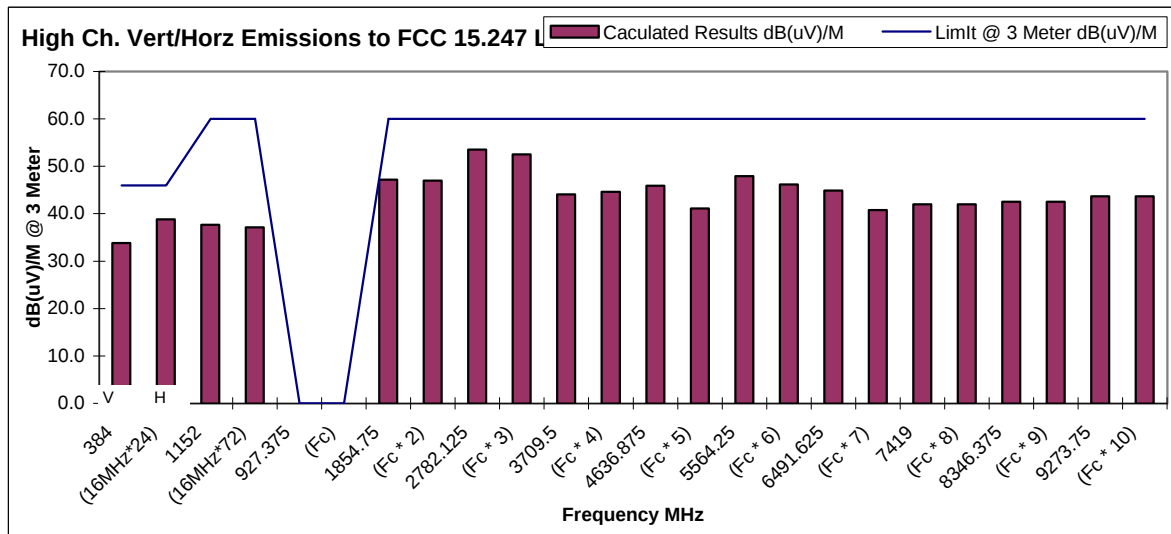
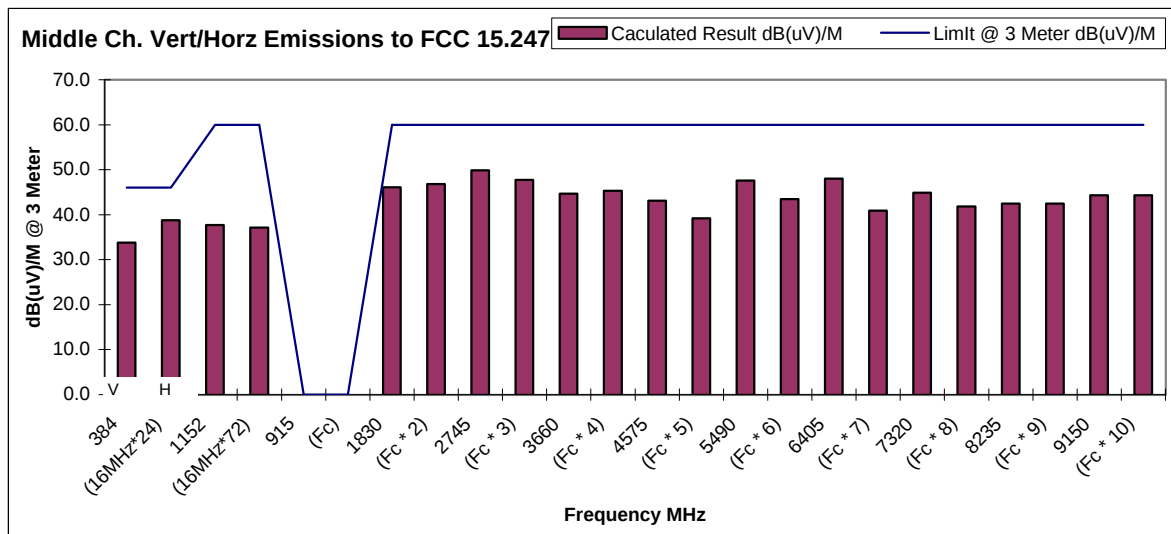
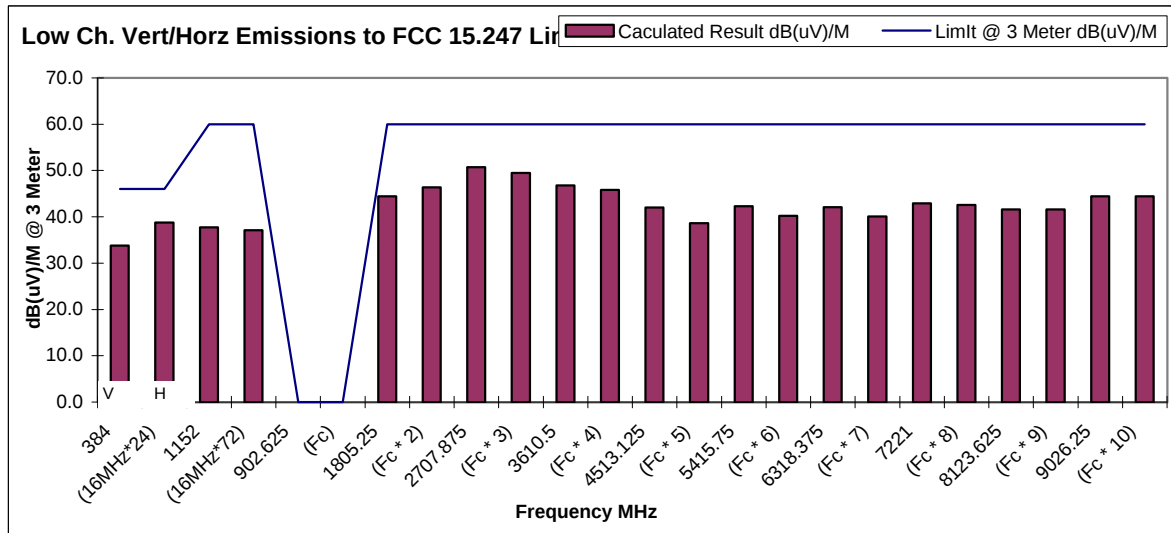
Test Date (mm/dd/yy): 04/18/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended vertically with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/18/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	17.4	1.9	25.5		44.8	74	-29.2
(16MHz*72)	Hor	16.6	1.9	25.5		44.0	74	-30.0
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	51.0	2.2	28.2	34.1	47.3	74	-26.7
(Fc * 2)	Hor	52.3	2.2	28.2	34.1	48.6	74	-25.4
2707.875	Vert	51.3	4.0	31.3	33.8	52.8	74	-21.2
(Fc * 3)	Hor	49.8	4.0	31.3	33.8	51.3	74	-22.7
3610.5	Vert	45.8	4.3	33.4	33.5	50.0	74	-24.0
(Fc * 4)	Hor	46.2	4.3	33.4	33.5	50.4	74	-23.6
4513.125	Vert	43.6	5.1	33.9	33.2	49.4	74	-24.6
(Fc * 5)	Hor	42.3	5.1	33.9	33.2	48.1	74	-25.9
5415.75	Vert	41.9	5.5	36.0	33.1	50.3	74	-23.7
(Fc * 6)	Hor	41.0	5.5	36.0	33.1	49.4	74	-24.6
6318.375	Vert	42.6	6.0	36.8	33.2	52.2	74	-21.8
(Fc * 7)	Hor	41.0	6.0	36.8	33.2	50.6	74	-23.4
7221	Vert	42.7	6.4	37.6	33.4	53.3	74	-20.7
(Fc * 8)	Hor	42.2	6.4	37.6	33.4	52.8	74	-21.2
8123.625	Vert	41.0	6.9	37.8	33.6	52.1	74	-21.9
(Fc * 9)	Hor	41.0	6.9	37.8	33.6	52.1	74	-21.9
9026.25	Vert	41.0	7.8	39.8	33.7	54.9	74	-19.1
(Fc * 10)	Hor	41.0	7.8	39.8	33.7	54.9	74	-19.1

Middle Channel 40		915 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	17.4	1.9	25.5		44.8	74	-29.2
(16MHz*72)	Hor	16.6	1.9	25.5		44.0	74	-30.0
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	51.7	2.2	28.3	34.1	48.1	74	-25.9
(Fc * 2)	Hor	52.6	2.2	28.3	34.1	49.0	74	-25.0
2745	Vert	51.0	3.9	31.5	33.8	52.6	74	-21.4
(Fc * 3)	Hor	49.9	3.9	31.5	33.8	51.5	74	-22.5
3660	Vert	45.0	4.3	33.5	33.5	49.3	74	-24.7
(Fc * 4)	Hor	45.2	4.3	33.5	33.5	49.5	74	-24.5
4575	Vert	44.4	4.9	34.1	33.2	50.2	74	-23.8
(Fc * 5)	Hor	42.3	4.9	34.1	33.2	48.1	74	-25.9
5490	Vert	44.8	5.6	36.2	33.1	53.5	74	-20.5
(Fc * 6)	Hor	42.7	5.6	36.2	33.1	51.4	74	-22.6
6405	Vert	42.9	6.2	36.7	33.3	52.5	74	-21.5
(Fc * 7)	Hor	41.8	6.2	36.7	33.3	51.4	74	-22.6
7320	Vert	43.1	6.5	37.7	33.4	53.9	74	-20.1
(Fc * 8)	Hor	41.0	6.5	37.7	33.4	51.8	74	-22.2
8235	Vert	41.0	7.0	37.9	33.4	52.5	74	-21.5
(Fc * 9)	Hor	41.0	7.0	37.9	33.4	52.5	74	-21.5
9150	Vert	41.0	7.7	39.4	33.8	54.3	74	-19.7
(Fc * 10)	Hor	41.0	7.7	39.4	33.8	54.3	74	-19.7

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended vertically with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/18/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	17.4	1.9	25.5		44.8	74	-29.2
(16MHz*72)	Hor	16.6	1.9	25.5		44.0	74	-30.0
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	53.5	2.4	28.4	34.1	50.2	74	-23.8
(Fc * 2)	Hor	52.6	2.4	28.4	34.1	49.3	74	-24.7
2782.125	Vert	54.0	3.9	31.6	33.8	55.7	74	-18.3
(Fc * 3)	Hor	52.8	3.9	31.6	33.8	54.5	74	-19.5
3709.5	Vert	45.3	4.2	33.7	33.4	49.8	74	-24.2
(Fc * 4)	Hor	45.5	4.2	33.7	33.4	50.0	74	-24.0
4636.875	Vert	45.5	5.0	34.2	33.2	51.5	74	-22.5
(Fc * 5)	Hor	43.4	5.0	34.2	33.2	49.4	74	-24.6
5564.25	Vert	44.8	5.6	36.3	33.1	53.6	74	-20.4
(Fc * 6)	Hor	44.5	5.6	36.3	33.1	53.3	74	-20.7
6491.625	Vert	44.1	6.1	36.6	33.3	53.5	74	-20.5
(Fc * 7)	Hor	41.3	6.1	36.6	33.3	50.7	74	-23.3
7419	Vert	41.3	6.5	37.9	33.4	52.3	74	-21.7
(Fc * 8)	Hor	41.0	6.5	37.9	33.4	52.0	74	-22.0
8346.4	Vert	41.0	7.0	38.0	33.5	52.5	74	-21.5
(Fc * 9)	Hor	41.0	7.0	38.0	33.5	52.5	74	-21.5
9273.8	Vert	41.0	7.6	39.0	33.9	53.7	74	-20.3
(Fc * 10)	Hor	41.0	7.6	39.0	33.9	53.7	74	-20.3

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended vertically with Mobile Mark 2 dBi panel antenna

Cedar Rapids, IA

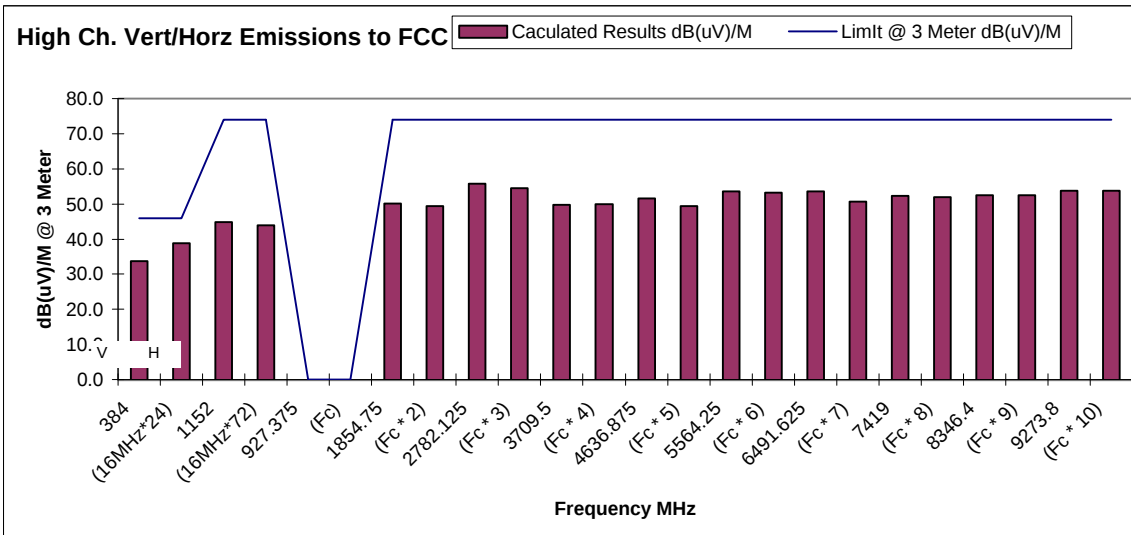
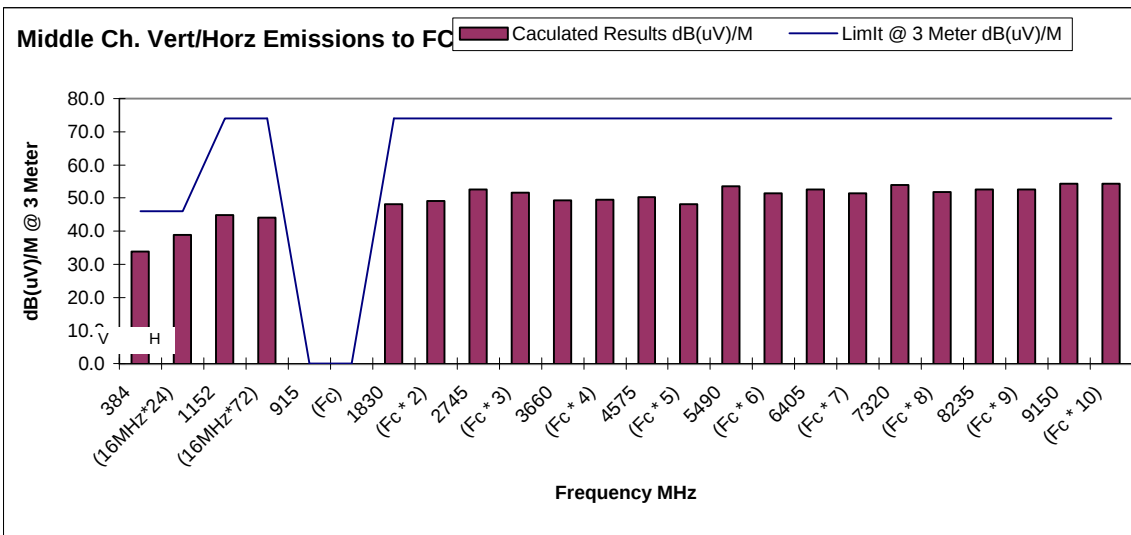
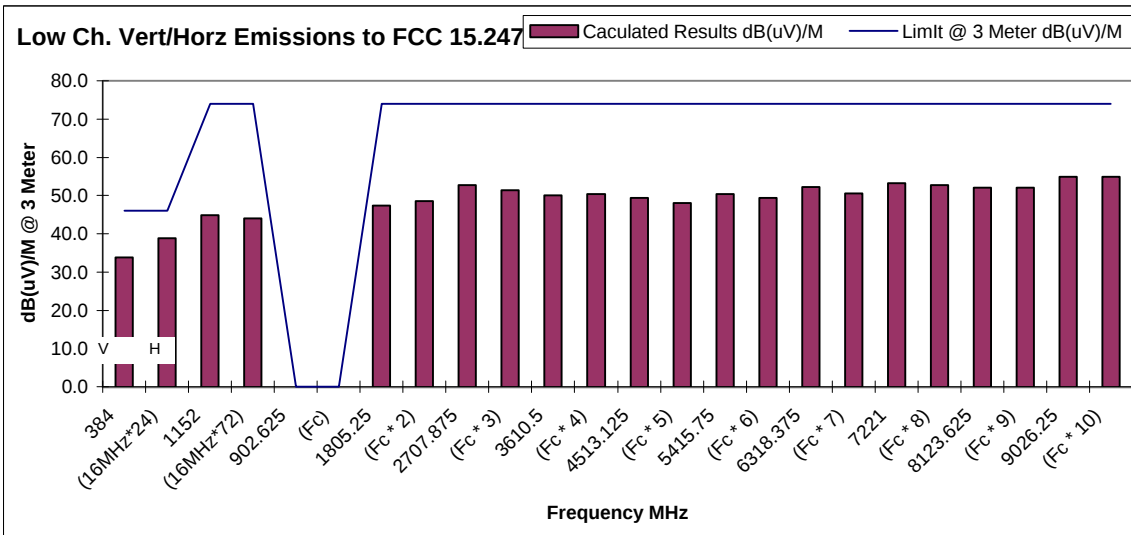
Test Date (mm/dd/yy): 04/18/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Astron 3 dBi raised panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/17/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	9.2	1.9	25.5		36.6	60	-23.4
(16MHz*72)	Hor	12.8	1.9	25.5		40.2	60	-19.8
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	43.3	2.2	28.2	34.1	39.6	60	-20.4
(Fc * 2)	Hor	44.0	2.2	28.2	34.1	40.3	60	-19.7
2707.875	Vert	49.5	4.0	31.3	33.8	51.0	60	-9.0
(Fc * 3)	Hor	53.1	4.0	31.3	33.8	54.6	60	-5.4
3610.5	Vert	40.3	4.3	33.4	33.5	44.5	60	-15.5
(Fc * 4)	Hor	39.6	4.3	33.4	33.5	43.8	60	-16.2
4513.125	Vert	35.0	5.1	33.9	33.2	40.8	60	-19.2
(Fc * 5)	Hor	36.3	5.1	33.9	33.2	42.1	60	-17.9
5415.75	Vert	31.3	5.5	36.0	33.1	39.7	60	-20.3
(Fc * 6)	Hor	31.1	5.5	36.0	33.1	39.5	60	-20.5
6318.375	Vert	34.2	6.0	36.8	33.2	43.8	60	-16.2
(Fc * 7)	Hor	34.0	6.0	36.8	33.2	43.6	60	-16.4
7221	Vert	30.7	6.4	37.6	33.4	41.3	60	-18.7
(Fc * 8)	Hor	30.7	6.4	37.6	33.4	41.3	60	-18.7
8123.625	Vert	30.7	6.9	37.8	33.6	41.8	60	-18.2
(Fc * 9)	Hor	30.7	6.9	37.8	33.6	41.8	60	-18.2
9026.25	Vert	30.7	7.8	39.8	33.7	44.6	60	-15.4
(Fc * 10)	Hor	30.7	7.8	39.8	33.7	44.6	60	-15.4

Middle Channel 40		915.000 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	10.2	1.9	25.5		37.6	60	-22.4
(16MHz*72)	Hor	12.6	1.9	25.5		40.0	60	-20.0
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	44.9	2.2	28.3	34.1	41.3	60	-18.7
(Fc * 2)	Hor	44.9	2.2	28.3	34.1	41.3	60	-18.7
2745	Vert	45.9	3.9	31.5	33.8	47.5	60	-12.5
(Fc * 3)	Hor	49.2	3.9	31.5	33.8	50.8	60	-9.2
3660	Vert	38.9	4.3	33.5	33.5	43.2	60	-16.8
(Fc * 4)	Hor	38.0	4.3	33.5	33.5	42.3	60	-17.7
4575	Vert	36.1	4.9	34.1	33.2	41.9	60	-18.1
(Fc * 5)	Hor	36.5	4.9	34.1	33.2	42.3	60	-17.7
5490	Vert	34.6	5.6	36.2	33.1	43.3	60	-16.7
(Fc * 6)	Hor	36.6	5.6	36.2	33.1	45.3	60	-14.7
6405	Vert	35.7	6.2	36.7	33.3	45.3	60	-14.7
(Fc * 7)	Hor	34.5	6.2	36.7	33.3	44.1	60	-15.9
7320	Vert	32.5	6.5	37.7	33.4	43.3	60	-16.7
(Fc * 8)	Hor	30.7	6.5	37.7	33.4	41.5	60	-18.5
8235	Vert	30.7	7.0	37.9	33.4	42.2	60	-17.8
(Fc * 9)	Hor	30.7	7.0	37.9	33.4	42.2	60	-17.8
9150	Vert	30.7	7.7	39.4	33.8	44.0	60	-16.0
(Fc * 10)	Hor	30.7	7.7	39.4	33.8	44.0	60	-16.0

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Astron 3 dBi raised panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/17/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	7.3	1.9	25.5		34.7	60	-25.3
(16MHz*72)	Hor	11.7	1.9	25.5		39.1	60	-20.9
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	44.1	2.4	28.4	34.1	40.8	60	-19.2
(Fc * 2)	Hor	45.7	2.4	28.4	34.1	42.4	60	-17.6
2782.125	Vert	48.8	3.9	31.6	33.8	50.5	60	-9.5
(Fc * 3)	Hor	50.4	3.9	31.6	33.8	52.1	60	-7.9
3709.5	Vert	40.6	4.2	33.7	33.4	45.1	60	-14.9
(Fc * 4)	Hor	38.1	4.2	33.7	33.4	42.6	60	-17.4
4636.875	Vert	36.7	5.0	34.2	33.2	42.7	60	-17.3
(Fc * 5)	Hor	35.9	5.0	34.2	33.2	41.9	60	-18.1
5564.25	Vert	37.2	5.6	36.3	33.1	46.0	60	-14.0
(Fc * 6)	Hor	37.8	5.6	36.3	33.1	46.6	60	-13.4
6491.625	Vert	35.0	6.1	36.6	33.3	44.4	60	-15.6
(Fc * 7)	Hor	33.9	6.1	36.6	33.3	43.3	60	-16.7
7419	Vert	30.7	6.5	37.9	33.4	41.7	60	-18.3
(Fc * 8)	Hor	30.7	6.5	37.9	33.4	41.7	60	-18.3
8346.375	Vert	30.7	7.0	38.0	33.5	42.2	60	-17.8
(Fc * 9)	Hor	30.7	7.0	38.0	33.5	42.2	60	-17.8
9273.75	Vert	30.7	7.6	39.0	33.9	43.4	60	-16.6
(Fc * 10)	Hor	30.7	7.6	39.0	33.9	43.4	60	-16.6

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Astron 3 dBi raised panel antenna

Cedar Rapids, IA

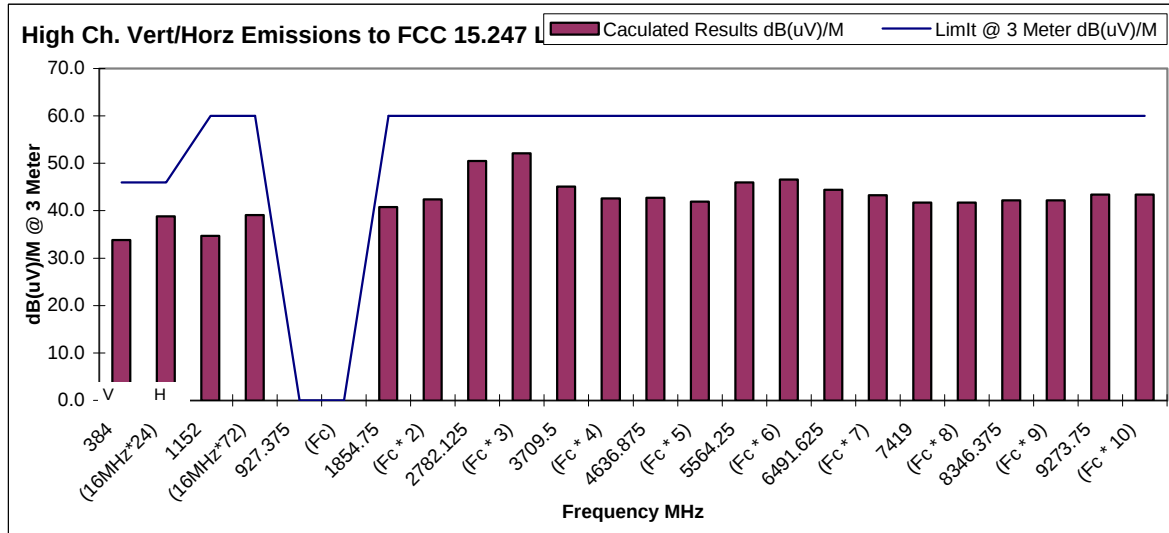
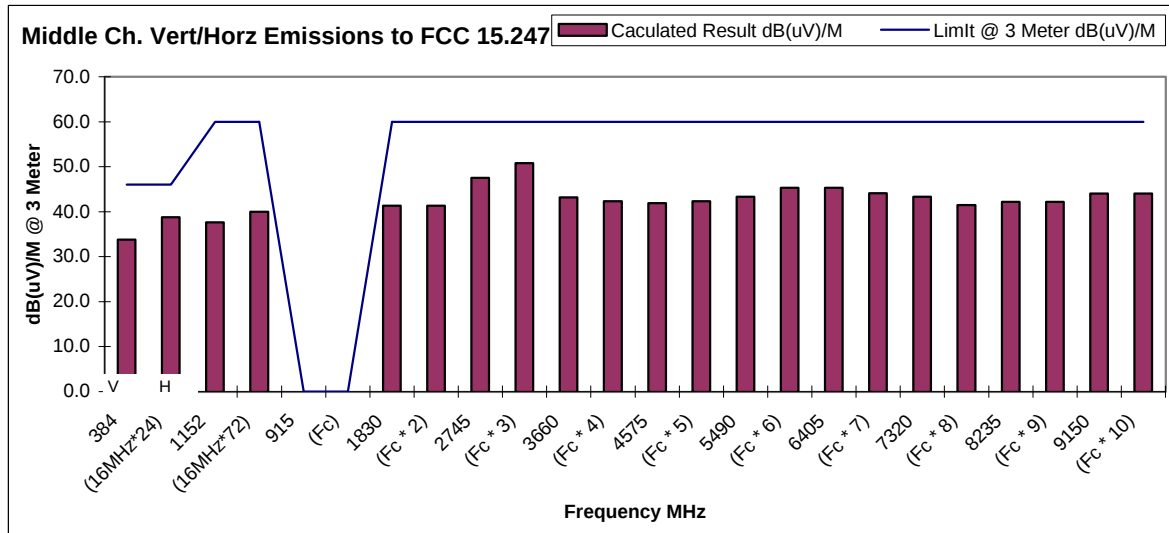
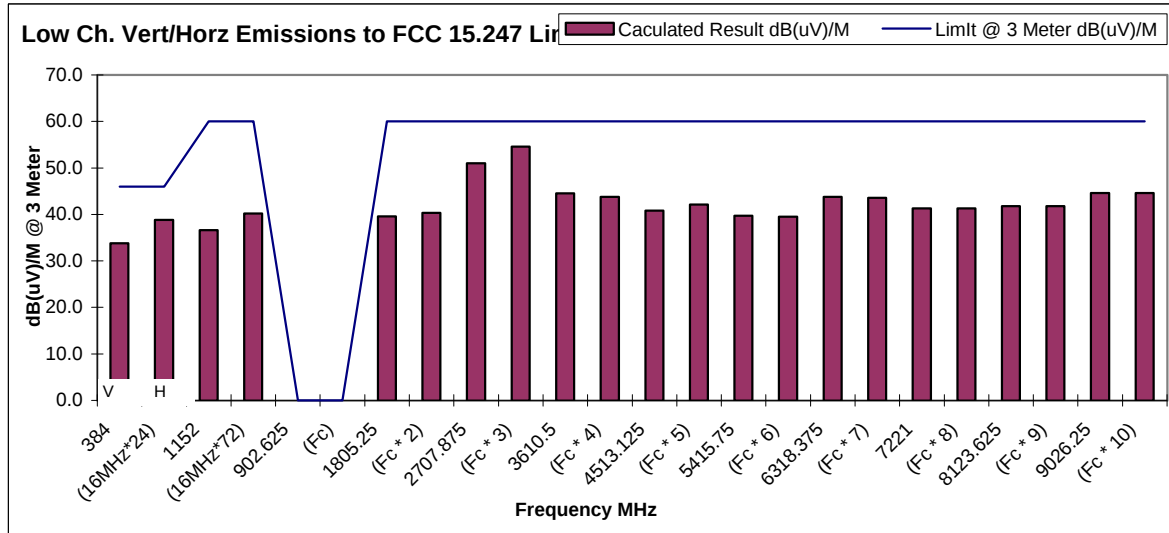
Test Date (mm/dd/yy): 04/17/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Astron 3 dBi raised panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/17/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	16.2	1.9	25.5		43.6	74	-30.4
(16MHz*72)	Hor	19.1	1.9	25.5		46.5	74	-27.5
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	48.1	2.2	28.2	34.1	44.4	74	-29.6
(Fc * 2)	Hor	48.2	2.2	28.2	34.1	44.5	74	-29.5
2707.875	Vert	51.5	4.0	31.3	33.8	53.0	74	-21.0
(Fc * 3)	Hor	54.4	4.0	31.3	33.8	55.9	74	-18.1
3610.5	Vert	44.8	4.3	33.4	33.5	49.0	74	-25.0
(Fc * 4)	Hor	43.9	4.3	33.4	33.5	48.1	74	-25.9
4513.125	Vert	42.5	5.1	33.9	33.2	48.3	74	-25.7
(Fc * 5)	Hor	43.5	5.1	33.9	33.2	49.3	74	-24.7
5415.75	Vert	41.1	5.5	36.0	33.1	49.5	74	-24.5
(Fc * 6)	Hor	40.8	5.5	36.0	33.1	49.2	74	-24.8
6318.375	Vert	43.6	6.0	36.8	33.2	53.2	74	-20.8
(Fc * 7)	Hor	43.4	6.0	36.8	33.2	53.0	74	-21.0
7221	Vert	41.7	6.4	37.6	33.4	52.3	74	-21.7
(Fc * 8)	Hor	41.7	6.4	37.6	33.4	52.3	74	-21.7
8123.625	Vert	41.7	6.9	37.8	33.6	52.8	74	-21.2
(Fc * 9)	Hor	41.7	6.9	37.8	33.6	52.8	74	-21.2
9026.25	Vert	41.7	7.8	39.8	33.7	55.6	74	-18.4
(Fc * 10)	Hor	41.7	7.8	39.8	33.7	55.6	74	-18.4

Middle Channel 40		915 MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	16.5	1.9	25.5		43.9	74	-30.1
(16MHz*72)	Hor	19.0	1.9	25.5		46.4	74	-27.6
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	48.9	2.2	28.3	34.1	45.3	74	-28.7
(Fc * 2)	Hor	49.0	2.2	28.3	34.1	45.4	74	-28.6
2745	Vert	49.0	3.9	31.5	33.8	50.6	74	-23.4
(Fc * 3)	Hor	51.6	3.9	31.5	33.8	53.2	74	-20.8
3660	Vert	44.2	4.3	33.5	33.5	48.5	74	-25.5
(Fc * 4)	Hor	44.4	4.3	33.5	33.5	48.7	74	-25.3
4575	Vert	44.2	4.9	34.1	33.2	50.0	74	-24.0
(Fc * 5)	Hor	44.0	4.9	34.1	33.2	49.8	74	-24.2
5490	Vert	43.3	5.6	36.2	33.1	52.0	74	-22.0
(Fc * 6)	Hor	43.8	5.6	36.2	33.1	52.5	74	-21.5
6405	Vert	43.6	6.2	36.7	33.3	53.2	74	-20.8
(Fc * 7)	Hor	42.7	6.2	36.7	33.3	52.3	74	-21.7
7320	Vert	42.3	6.5	37.7	33.4	53.1	74	-20.9
(Fc * 8)	Hor	41.7	6.5	37.7	33.4	52.5	74	-21.5
8235	Vert	41.7	7.0	37.9	33.4	53.2	74	-20.8
(Fc * 9)	Hor	41.7	7.0	37.9	33.4	53.2	74	-20.8
9150	Vert	41.7	7.7	39.4	33.8	55.0	74	-19.0
(Fc * 10)	Hor	41.7	7.7	39.4	33.8	55.0	74	-19.0

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Astron 3 dBi raised panel antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 04/17/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	16.6	1.8	15.4		33.8	46	-12.2
(16MHz*24)	Hor	21.6	1.8	15.4		38.8	46	-7.2
1152	Vert	16.6	1.9	25.5		44.0	74	-30.0
(16MHz*72)	Hor	18.2	1.9	25.5		45.6	74	-28.4
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	49.0	2.4	28.4	34.1	45.7	74	-28.3
(Fc * 2)	Hor	49.5	2.4	28.4	34.1	46.2	74	-27.8
2782.125	Vert	51.2	3.9	31.6	33.8	52.9	74	-21.1
(Fc * 3)	Hor	52.7	3.9	31.6	33.8	54.4	74	-19.6
3709.5	Vert	45.8	4.2	33.7	33.4	50.3	74	-23.7
(Fc * 4)	Hor	45.0	4.2	33.7	33.4	49.5	74	-24.5
4636.875	Vert	44.0	5.0	34.2	33.2	50.0	74	-24.0
(Fc * 5)	Hor	43.4	5.0	34.2	33.2	49.4	74	-24.6
5564.25	Vert	44.0	5.6	36.3	33.1	52.8	74	-21.2
(Fc * 6)	Hor	44.5	5.6	36.3	33.1	53.3	74	-20.7
6491.625	Vert	43.1	6.1	36.6	33.3	52.5	74	-21.5
(Fc * 7)	Hor	42.4	6.1	36.6	33.3	51.8	74	-22.2
7419	Vert	41.7	6.5	37.9	33.4	52.7	74	-21.3
(Fc * 8)	Hor	41.7	6.5	37.9	33.4	52.7	74	-21.3
8346.4	Vert	41.7	7.0	38.0	33.5	53.2	74	-20.8
(Fc * 9)	Hor	41.7	7.0	38.0	33.5	53.2	74	-20.8
9273.8	Vert	41.7	7.6	39.0	33.9	54.4	74	-19.6
(Fc * 10)	Hor	41.7	7.6	39.0	33.9	54.4	74	-19.6

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module

EMC Test Laboratory

Set Up: Module extended horizontally with Astron 3 dBi raised panel antenna

Cedar Rapids, IA

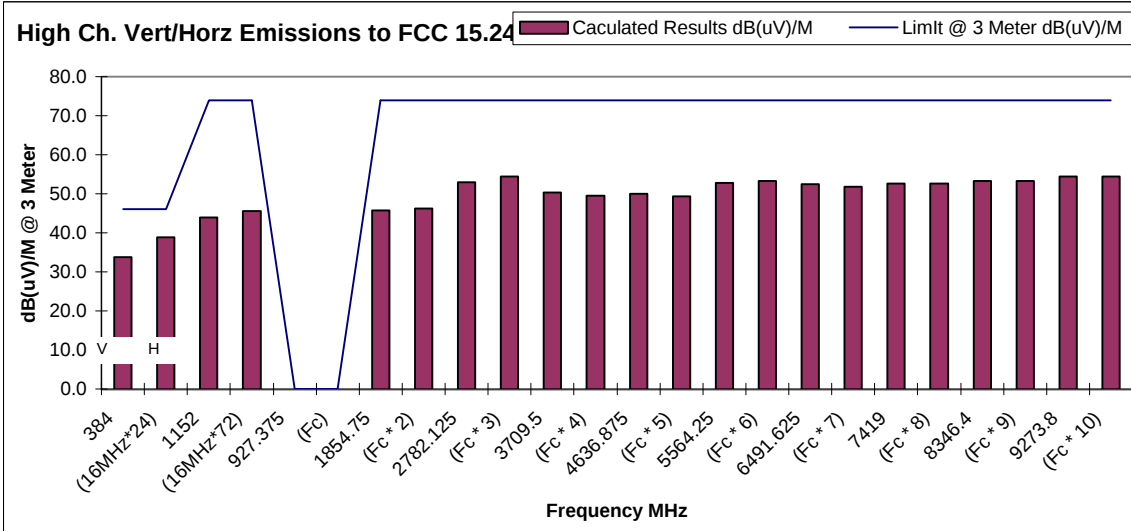
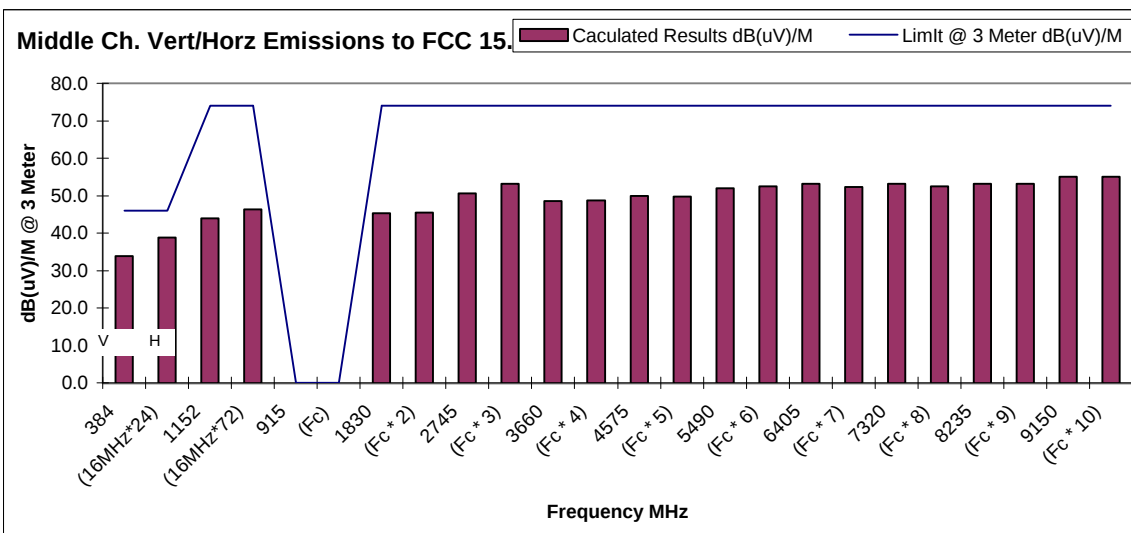
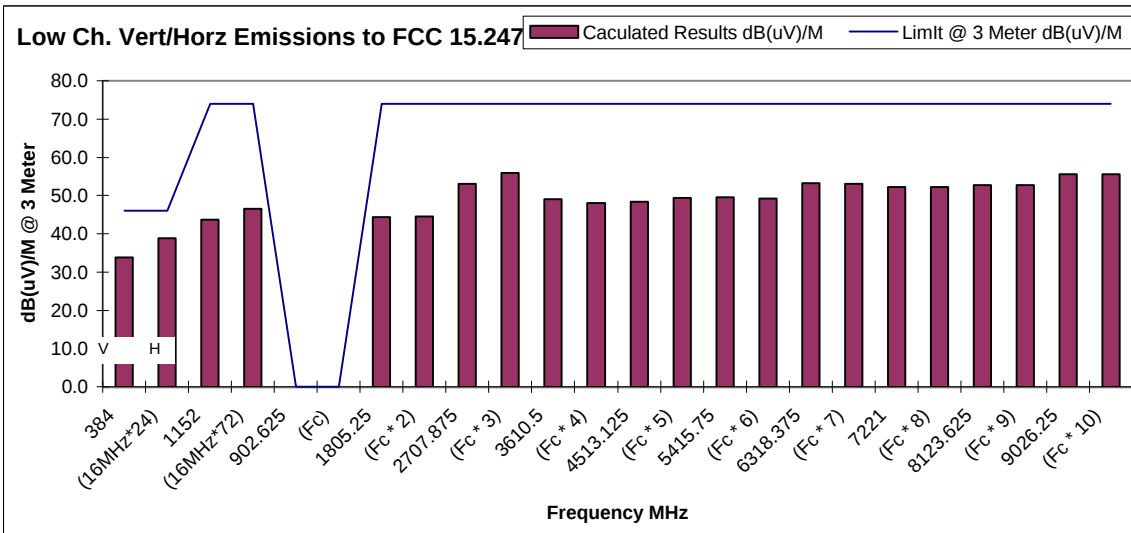
Test Date (mm/dd/yy): 04/17/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07 902.625 MHz								
384	Vert	10.4	1.8	15.4		27.6	46	-18.4
(16MHz*24)	Hor	11.5	1.8	15.4		28.7	46	-17.3
1152	Vert	9.2	1.9	25.5		36.6	60	-23.4
(16MHz*72)	Hor	10.0	1.9	25.5		37.4	60	-22.6
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	54.6	2.2	28.2	34.1	50.9	60	-9.1
(Fc * 2)	Hor	59.0	2.2	28.2	34.1	55.3	60	-4.7
2707.875	Vert	51.6	4.0	31.3	33.8	53.1	60	-6.9
(Fc * 3)	Hor	51.6	4.0	31.3	33.8	53.1	60	-6.9
3610.5	Vert	37.3	4.3	33.4	33.5	41.5	60	-18.5
(Fc * 4)	Hor	36.8	4.3	33.4	33.5	41.0	60	-19.0
4513.125	Vert	36.0	5.1	33.9	33.2	41.8	60	-18.2
(Fc * 5)	Hor	34.1	5.1	33.9	33.2	39.9	60	-20.1
5415.75	Vert	29.1	5.5	36.0	33.1	37.5	60	-22.5
(Fc * 6)	Hor	29.1	5.5	36.0	33.1	37.5	60	-22.5
6318.375	Vert	35.2	6.0	36.8	33.2	44.8	60	-15.2
(Fc * 7)	Hor	35.1	6.0	36.8	33.2	44.7	60	-15.3
7221	Vert	31.8	6.4	37.6	33.4	42.4	60	-17.6
(Fc * 8)	Hor	29.1	6.4	37.6	33.4	39.7	60	-20.3
8123.625	Vert	29.1	6.9	37.8	33.6	40.2	60	-19.8
(Fc * 9)	Hor	29.1	6.9	37.8	33.6	40.2	60	-19.8
9026.25	Vert	29.1	7.8	39.8	33.7	43.0	60	-17.0
(Fc * 10)	Hor	29.1	7.8	39.8	33.7	43.0	60	-17.0

Middle Channel 40 915.000 MHz								
384	Vert	10.4	1.8	15.4		27.6	46	-18.4
(16MHz*24)	Hor	11.5	1.8	15.4		28.7	46	-17.3
1152	Vert	9.2	1.9	25.5		36.6	60	-23.4
(16MHz*72)	Hor	10.0	1.9	25.5		37.4	60	-22.6
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	46.8	2.2	28.3	34.1	43.2	60	-16.8
(Fc * 2)	Hor	53.3	2.2	28.3	34.1	49.7	60	-10.3
2745	Vert	52.4	3.9	31.5	33.8	54.0	60	-6.0
(Fc * 3)	Hor	47.5	3.9	31.5	33.8	49.1	60	-10.9
3660	Vert	35.1	4.3	33.5	33.5	39.4	60	-20.6
(Fc * 4)	Hor	34.9	4.3	33.5	33.5	39.2	60	-20.8
4575	Vert	37.1	4.9	34.1	33.2	42.9	60	-17.1
(Fc * 5)	Hor	33.8	4.9	34.1	33.2	39.6	60	-20.4
5490	Vert	30.1	5.6	36.2	33.1	38.8	60	-21.2
(Fc * 6)	Hor	30.0	5.6	36.2	33.1	38.7	60	-21.3
6405	Vert	37.9	6.2	36.7	33.3	47.5	60	-12.5
(Fc * 7)	Hor	36.1	6.2	36.7	33.3	45.7	60	-14.3
7320	Vert	32.1	6.5	37.7	33.4	42.9	60	-17.1
(Fc * 8)	Hor	31.3	6.5	37.7	33.4	42.1	60	-17.9
8235	Vert	31.0	7.0	37.9	33.4	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	37.9	33.4	42.5	60	-17.5
9150	Vert	31.3	7.7	39.4	33.8	44.6	60	-15.4
(Fc * 10)	Hor	31.2	7.7	39.4	33.8	44.5	60	-15.5

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	10.4	1.8	15.4		27.6	46	-18.4
(16MHz*24)	Hor	11.5	1.8	15.4		28.7	46	-17.3
1152	Vert	9.2	1.9	25.5		36.6	60	-23.4
(16MHz*72)	Hor	10.0	1.9	25.5		37.4	60	-22.6
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	43.4	2.4	28.4	34.1	40.1	60	-19.9
(Fc * 2)	Hor	42.5	2.4	28.4	34.1	39.2	60	-20.8
2782.125	Vert	50.6	3.9	31.6	33.8	52.3	60	-7.7
(Fc * 3)	Hor	52.5	3.9	31.6	33.8	54.2	60	-5.8
3709.5	Vert	32.6	4.2	33.7	33.4	37.1	60	-22.9
(Fc * 4)	Hor	32.2	4.2	33.7	33.4	36.7	60	-23.3
4636.875	Vert	34.9	5.0	34.2	33.2	40.9	60	-19.1
(Fc * 5)	Hor	31.7	5.0	34.2	33.2	37.7	60	-22.3
5564.25	Vert	29.1	5.6	36.3	33.1	37.9	60	-22.1
(Fc * 6)	Hor	29.4	5.6	36.3	33.1	38.2	60	-21.8
6491.625	Vert	36.4	6.1	36.6	33.3	45.8	60	-14.2
(Fc * 7)	Hor	37.2	6.1	36.6	33.3	46.6	60	-13.4
7419	Vert	31.0	6.5	37.9	33.4	42.0	60	-18.0
(Fc * 8)	Hor	31.4	6.5	37.9	33.4	42.4	60	-17.6
8346.375	Vert	31.0	7.0	38.0	33.5	42.5	60	-17.5
(Fc * 9)	Hor	31.2	7.0	38.0	33.5	42.7	60	-17.3
9273.75	Vert	31.0	7.6	39.0	33.9	43.7	60	-16.3
(Fc * 10)	Hor	31.0	7.6	39.0	33.9	43.7	60	-16.3

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

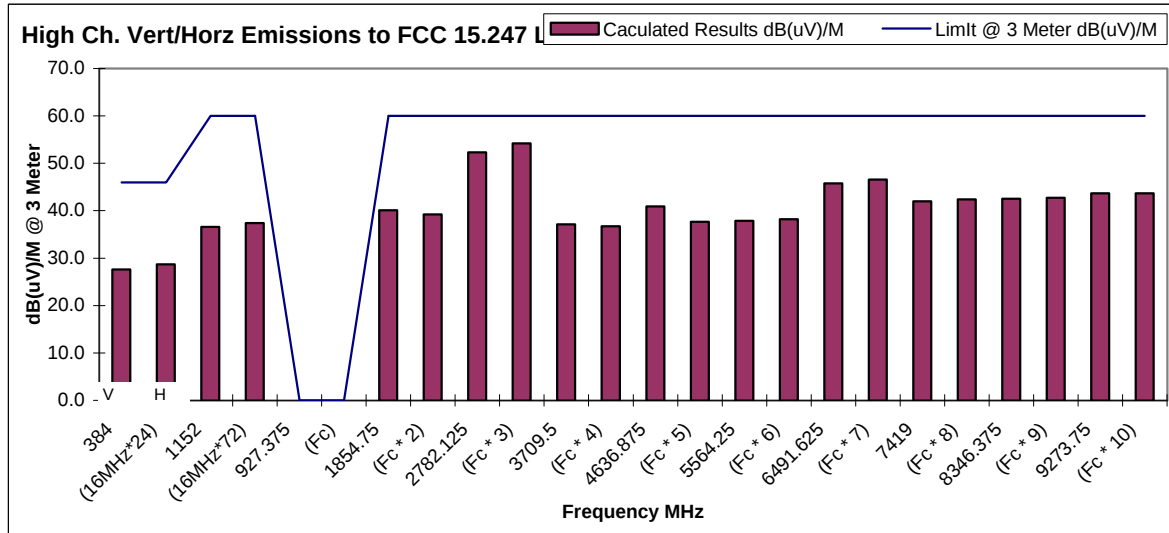
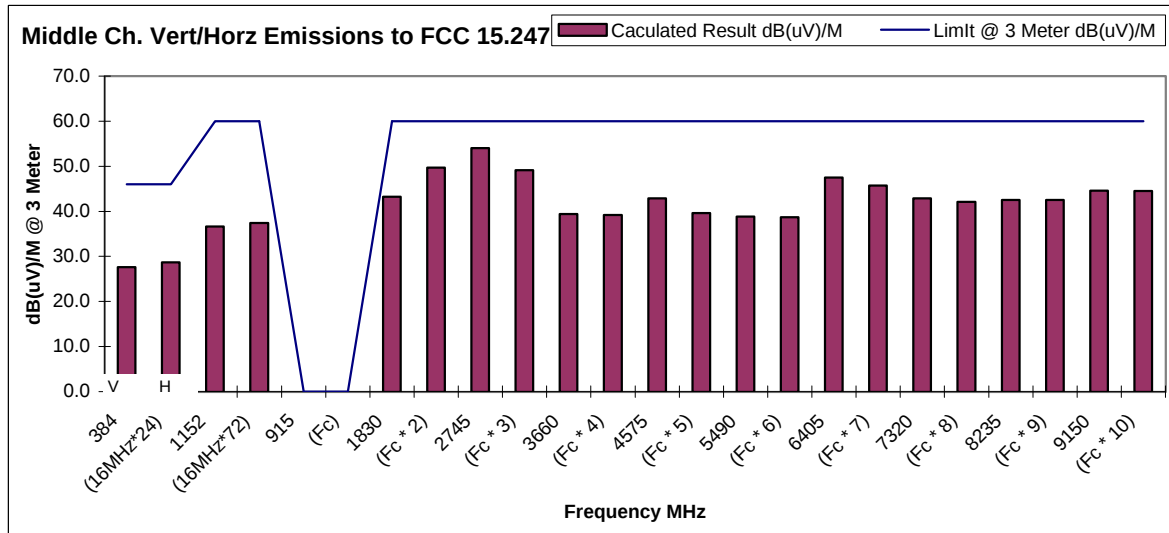
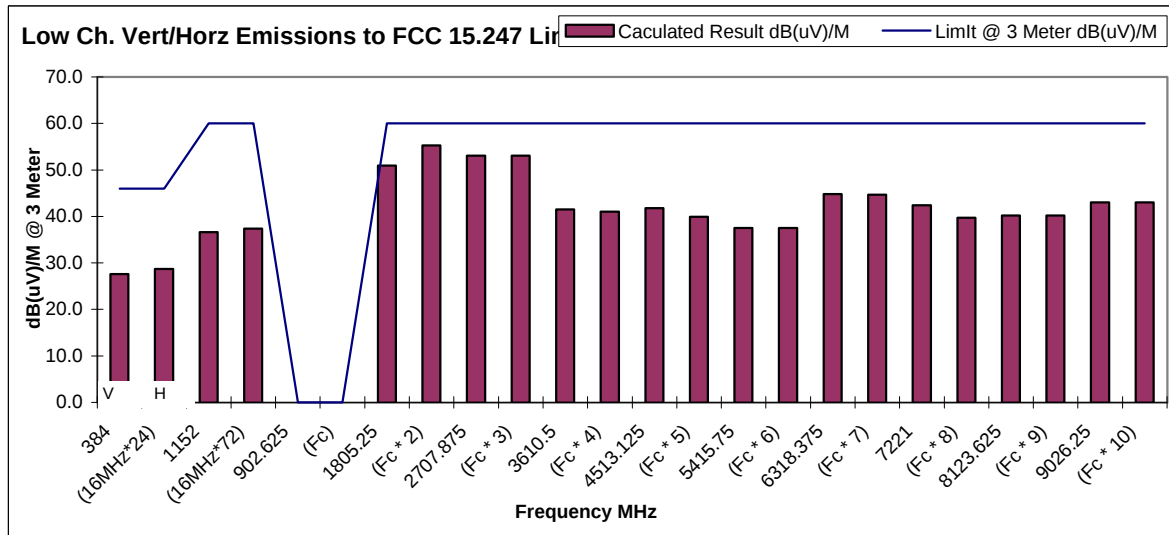
Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	10.4	1.8	15.4		27.6	46	-18.4
(16MHz*24)	Hor	11.5	1.8	15.4		28.7	46	-17.3
1152	Vert	16.6	1.9	25.5		44.0	74	-30.0
(16MHz*72)	Hor	17.1	1.9	25.5		44.5	74	-29.5
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	55.9	2.2	28.2	34.1	52.2	74	-21.8
(Fc * 2)	Hor	59.7	2.2	28.2	34.1	56.0	74	-18.0
2707.875	Vert	54.6	4.0	31.3	33.8	56.1	74	-17.9
(Fc * 3)	Hor	52.4	4.0	31.3	33.8	53.9	74	-20.1
3610.5	Vert	43.4	4.3	33.4	33.5	47.6	74	-26.4
(Fc * 4)	Hor	43.2	4.3	33.4	33.5	47.4	74	-26.6
4513.125	Vert	43.2	5.1	33.9	33.2	49.0	74	-25.0
(Fc * 5)	Hor	42.4	5.1	33.9	33.2	48.2	74	-25.8
5415.75	Vert	38.3	5.5	36.0	33.1	46.7	74	-27.3
(Fc * 6)	Hor	38.3	5.5	36.0	33.1	46.7	74	-27.3
6318.375	Vert	43.8	6.0	36.8	33.2	53.4	74	-20.6
(Fc * 7)	Hor	43.6	6.0	36.8	33.2	53.2	74	-20.8
7221	Vert	41.6	6.4	37.6	33.4	52.2	74	-21.8
(Fc * 8)	Hor	38.3	6.4	37.6	33.4	48.9	74	-25.1
8123.625	Vert	38.3	6.9	37.8	33.6	49.4	74	-24.6
(Fc * 9)	Hor	38.3	6.9	37.8	33.6	49.4	74	-24.6
9026.25	Vert	38.3	7.8	39.8	33.7	52.2	74	-21.8
(Fc * 10)	Hor	38.3	7.8	39.8	33.7	52.2	74	-21.8

Middle Channel 40		915 MHz						
384	Vert	10.4	1.8	15.4		27.6	46	-18.4
(16MHz*24)	Hor	11.5	1.8	15.4		28.7	46	-17.3
1152	Vert	16.6	1.9	25.5		44.0	74	-30.0
(16MHz*72)	Hor	17.1	1.9	25.5		44.5	74	-29.5
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	49.3	2.2	28.3	34.1	45.7	74	-28.3
(Fc * 2)	Hor	54.8	2.2	28.3	34.1	51.2	74	-22.8
2745	Vert	53.9	3.9	31.5	33.8	55.5	74	-18.5
(Fc * 3)	Hor	50.2	3.9	31.5	33.8	51.8	74	-22.2
3660	Vert	42.9	4.3	33.5	33.5	47.2	74	-26.8
(Fc * 4)	Hor	42.9	4.3	33.5	33.5	47.2	74	-26.8
4575	Vert	43.8	4.9	34.1	33.2	49.6	74	-24.4
(Fc * 5)	Hor	42.8	4.9	34.1	33.2	48.6	74	-25.4
5490	Vert	40.2	5.6	36.2	33.1	48.9	74	-25.1
(Fc * 6)	Hor	40.1	5.6	36.2	33.1	48.8	74	-25.2
6405	Vert	44.0	6.2	36.7	33.3	53.6	74	-20.4
(Fc * 7)	Hor	43.2	6.2	36.7	33.3	52.8	74	-21.2
7320	Vert	41.6	6.5	37.7	33.4	52.4	74	-21.6
(Fc * 8)	Hor	41.6	6.5	37.7	33.4	52.4	74	-21.6
8235	Vert	41.6	7.0	37.9	33.4	53.1	74	-20.9
(Fc * 9)	Hor	41.6	7.0	37.9	33.4	53.1	74	-20.9
9150	Vert	41.6	7.7	39.4	33.8	54.9	74	-19.1
(Fc * 10)	Hor	41.6	7.7	39.4	33.8	54.9	74	-19.1

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	10.4	1.8	15.4		27.6	46	-18.4
(16MHz*24)	Hor	11.5	1.8	15.4		28.7	46	-17.3
1152	Vert	16.6	1.9	25.5		44.0	74	-30.0
(16MHz*72)	Hor	17.1	1.9	25.5		44.5	74	-29.5
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	48.3	2.4	28.4	34.1	45.0	74	-29.0
(Fc * 2)	Hor	47.5	2.4	28.4	34.1	44.2	74	-29.8
2782.125	Vert	53.9	3.9	31.6	33.8	55.6	74	-18.4
(Fc * 3)	Hor	56.2	3.9	31.6	33.8	57.9	74	-16.1
3709.5	Vert	42.4	4.2	33.7	33.4	46.9	74	-27.1
(Fc * 4)	Hor	43.2	4.2	33.7	33.4	47.7	74	-26.3
4636.875	Vert	43.6	5.0	34.2	33.2	49.6	74	-24.4
(Fc * 5)	Hor	42.6	5.0	34.2	33.2	48.6	74	-25.4
5564.25	Vert	38.3	5.6	36.3	33.1	47.1	74	-26.9
(Fc * 6)	Hor	38.9	5.6	36.3	33.1	47.7	74	-26.3
6491.625	Vert	43.4	6.1	36.6	33.3	52.8	74	-21.2
(Fc * 7)	Hor	44.3	6.1	36.6	33.3	53.7	74	-20.3
7419	Vert	41.6	6.5	37.9	33.4	52.6	74	-21.4
(Fc * 8)	Hor	41.6	6.5	37.9	33.4	52.6	74	-21.4
8346.4	Vert	41.6	7.0	38.0	33.5	53.1	74	-20.9
(Fc * 9)	Hor	41.8	7.0	38.0	33.5	53.3	74	-20.7
9273.8	Vert	41.8	7.6	39.0	33.9	54.5	74	-19.5
(Fc * 10)	Hor	41.8	7.6	39.0	33.9	54.5	74	-19.5

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

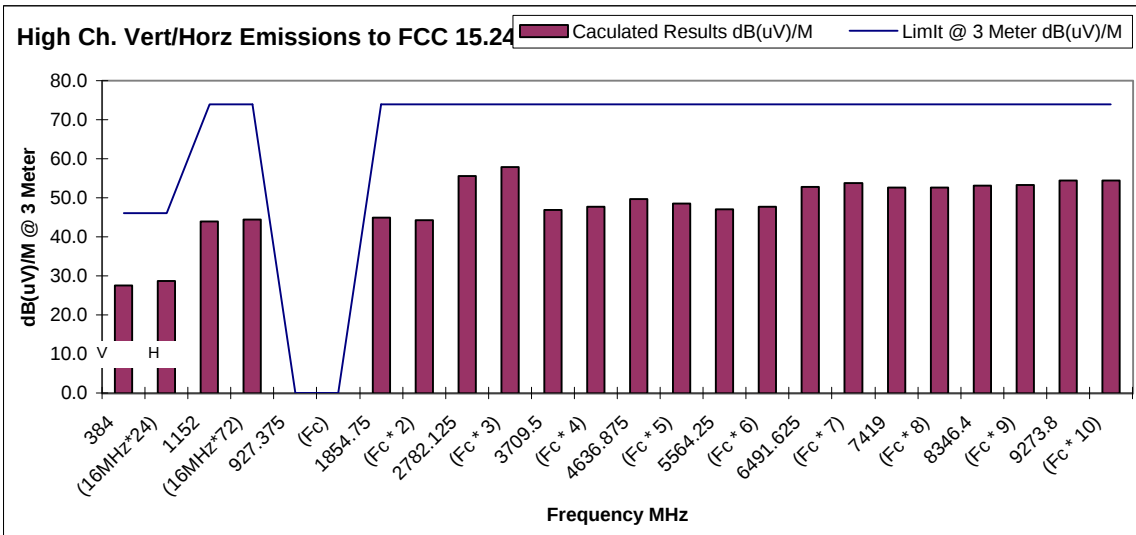
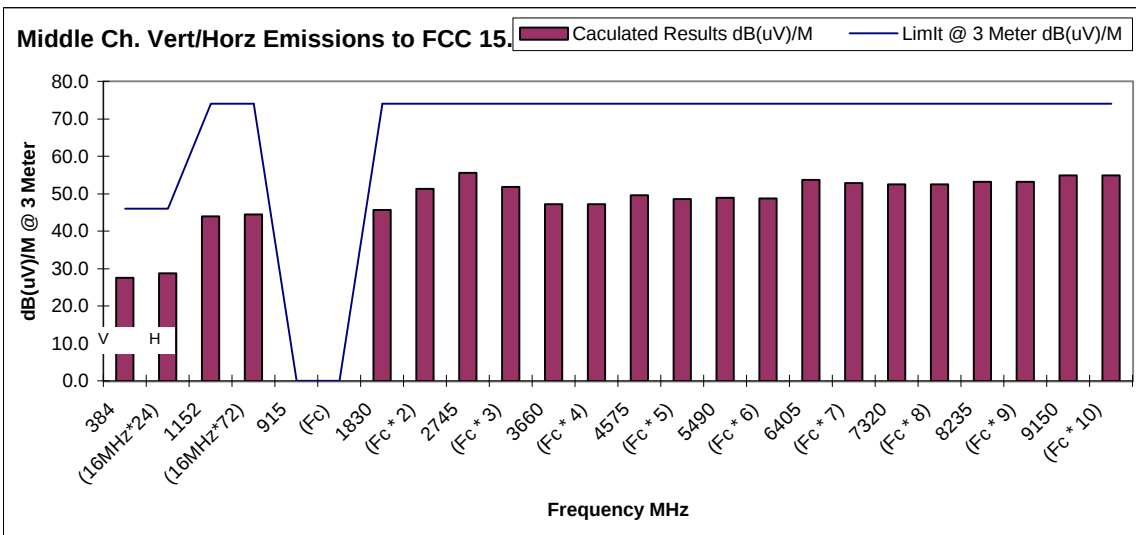
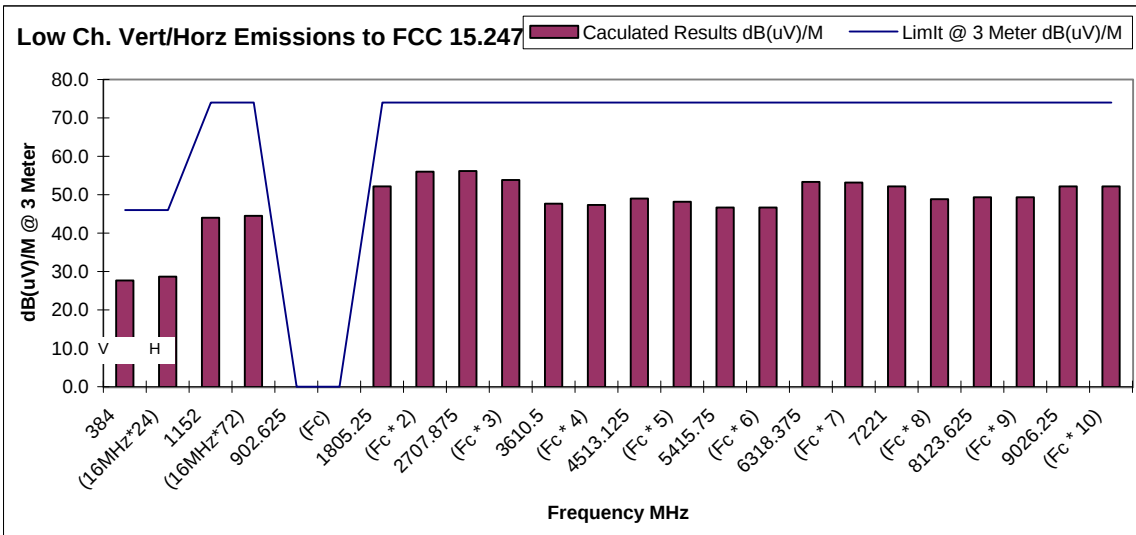
Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	11.2	1.8	15.4		28.4	46	-17.6
(16MHz*24)	Hor	10.7	1.8	15.4		27.9	46	-18.1
1152	Vert	9.7	1.9	25.5		37.1	60	-22.9
(16MHz*72)	Hor	8.9	1.9	25.5		36.3	60	-23.7
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	51.0	2.2	28.2	34.1	47.3	60	-12.7
(Fc * 2)	Hor	55.4	2.2	28.2	34.1	51.7	60	-8.3
2707.875	Vert	51.2	4.0	31.3	33.8	52.7	60	-7.3
(Fc * 3)	Hor	53.0	4.0	31.3	33.8	54.5	60	-5.5
3610.5	Vert	33.4	4.3	33.4	33.5	37.6	60	-22.4
(Fc * 4)	Hor	37.8	4.3	33.4	33.5	42.0	60	-18.0
4513.125	Vert	32.8	5.1	33.9	33.2	38.6	60	-21.4
(Fc * 5)	Hor	37.5	5.1	33.9	33.2	43.3	60	-16.7
5415.75	Vert	29.0	5.5	36.0	33.1	37.4	60	-22.6
(Fc * 6)	Hor	29.5	5.5	36.0	33.1	37.9	60	-22.1
6318.375	Vert	31.9	6.0	36.8	33.2	41.5	60	-18.5
(Fc * 7)	Hor	33.0	6.0	36.8	33.2	42.6	60	-17.4
7221	Vert	30.5	6.4	37.6	33.4	41.1	60	-18.9
(Fc * 8)	Hor	30.5	6.4	37.6	33.4	41.1	60	-18.9
8123.625	Vert	30.5	6.9	37.8	33.6	41.6	60	-18.4
(Fc * 9)	Hor	30.5	6.9	37.8	33.6	41.6	60	-18.4
9026.25	Vert	30.5	7.8	39.8	33.7	44.4	60	-15.6
(Fc * 10)	Hor	30.5	7.8	39.8	33.7	44.4	60	-15.6

Middle Channel 40		915.000 MHz						
384	Vert	11.2	1.8	15.4		28.4	46	-17.6
(16MHz*24)	Hor	10.7	1.8	15.4		27.9	46	-18.1
1152	Vert	9.7	1.9	25.5		37.1	60	-22.9
(16MHz*72)	Hor	8.9	1.9	25.5		36.3	60	-23.7
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	44.0	2.2	28.3	34.1	40.4	60	-19.6
(Fc * 2)	Hor	50.7	2.2	28.3	34.1	47.1	60	-12.9
2745	Vert	49.0	3.9	31.5	33.8	50.6	60	-9.4
(Fc * 3)	Hor	53.8	3.9	31.5	33.8	55.4	60	-4.6
3660	Vert	31.8	4.3	33.5	33.5	36.1	60	-23.9
(Fc * 4)	Hor	35.9	4.3	33.5	33.5	40.2	60	-19.8
4575	Vert	37.3	4.9	34.1	33.2	43.1	60	-16.9
(Fc * 5)	Hor	36.2	4.9	34.1	33.2	42.0	60	-18.0
5490	Vert	30.1	5.6	36.2	33.1	38.8	60	-21.2
(Fc * 6)	Hor	30.7	5.6	36.2	33.1	39.4	60	-20.6
6405	Vert	36.1	6.2	36.7	33.3	45.7	60	-14.3
(Fc * 7)	Hor	40.5	6.2	36.7	33.3	50.1	60	-9.9
7320	Vert	31.0	6.5	37.7	33.4	41.8	60	-18.2
(Fc * 8)	Hor	31.0	6.5	37.7	33.4	41.8	60	-18.2
8235	Vert	31.0	7.0	37.9	33.4	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	37.9	33.4	42.5	60	-17.5
9150	Vert	31.0	7.7	39.4	33.8	44.3	60	-15.7
(Fc * 10)	Hor	31.0	7.7	39.4	33.8	44.3	60	-15.7

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	11.2	1.8	15.4		28.4	46	-17.6
(16MHz*24)	Hor	10.7	1.8	15.4		27.9	46	-18.1
1152	Vert	9.7	1.9	25.5		37.1	60	-22.9
(16MHz*72)	Hor	8.9	1.9	25.5		36.3	60	-23.7
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	38.3	2.4	28.4	34.1	35.0	60	-25.0
(Fc * 2)	Hor	42.6	2.4	28.4	34.1	39.3	60	-20.7
2782.125	Vert	45.7	3.9	31.6	33.8	47.4	60	-12.6
(Fc * 3)	Hor	55.3	3.9	31.6	33.8	57.0	60	-3.0
3709.5	Vert	31.5	4.2	33.7	33.4	36.0	60	-24.0
(Fc * 4)	Hor	32.2	4.2	33.7	33.4	36.7	60	-23.3
4636.875	Vert	32.7	5.0	34.2	33.2	38.7	60	-21.3
(Fc * 5)	Hor	31.7	5.0	34.2	33.2	37.7	60	-22.3
5564.25	Vert	30.0	5.6	36.3	33.1	38.8	60	-21.2
(Fc * 6)	Hor	30.0	5.6	36.3	33.1	38.8	60	-21.2
6491.625	Vert	36.9	6.1	36.6	33.3	46.3	60	-13.7
(Fc * 7)	Hor	39.4	6.1	36.6	33.3	48.8	60	-11.2
7419	Vert	31.5	6.5	37.9	33.4	42.5	60	-17.5
(Fc * 8)	Hor	31.0	6.5	37.9	33.4	42.0	60	-18.0
8346.375	Vert	31.0	7.0	38.0	33.5	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	38.0	33.5	42.5	60	-17.5
9273.75	Vert	31.0	7.6	39.0	33.9	43.7	60	-16.3
(Fc * 10)	Hor	31.0	7.6	39.0	33.9	43.7	60	-16.3

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

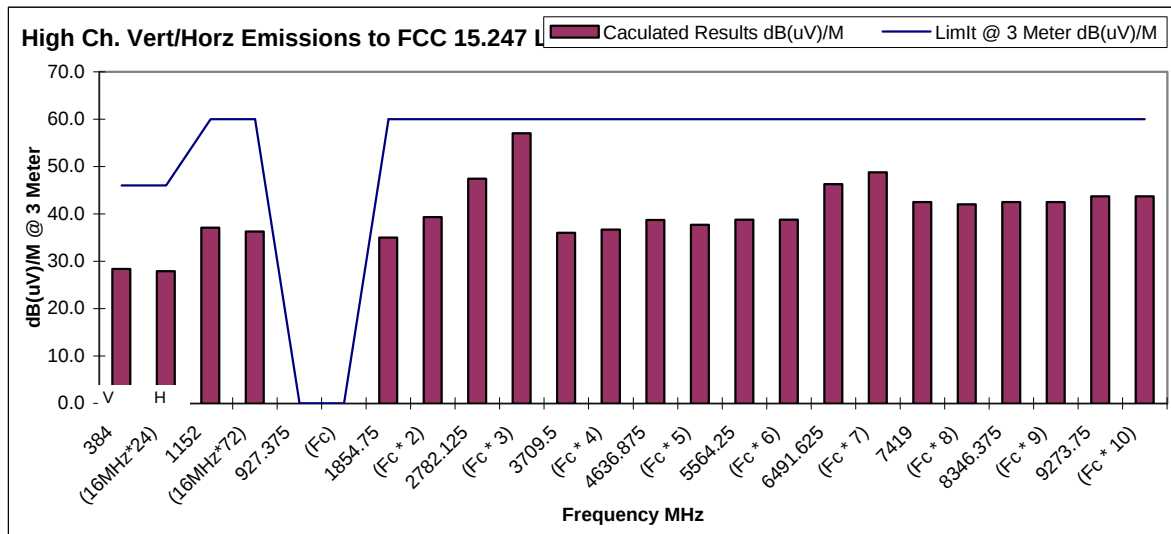
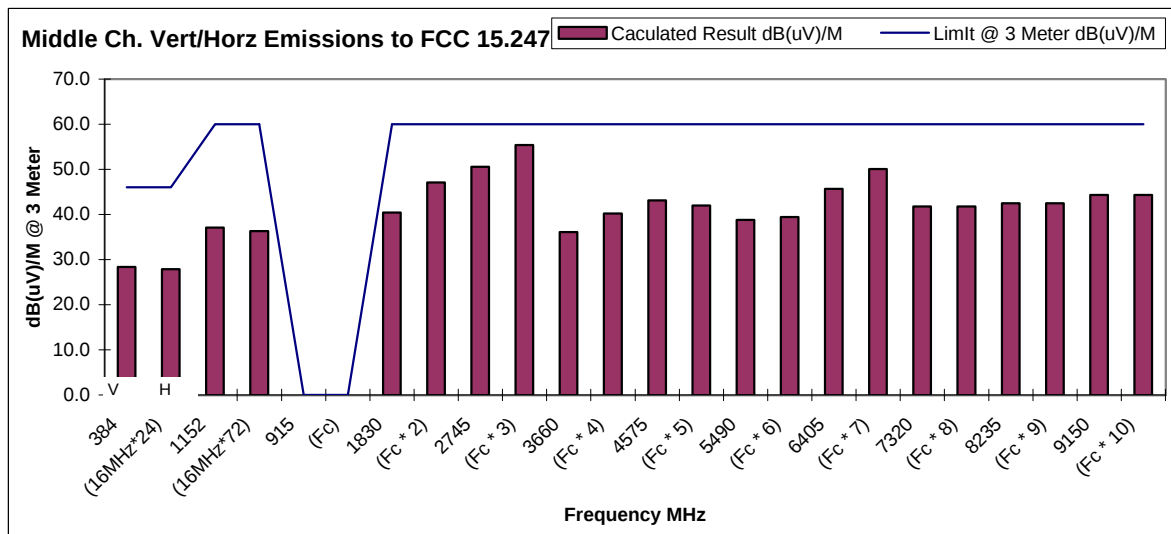
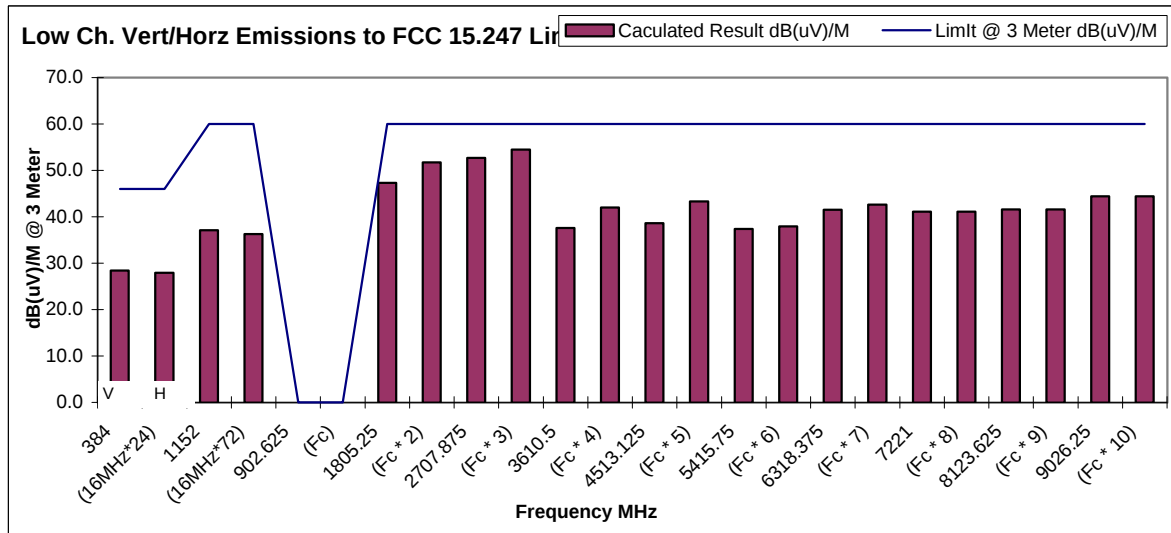
Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	11.2	1.8	15.4		28.4	46	-17.6
(16MHz*24)	Hor	10.7	1.8	15.4		27.9	46	-18.1
1152	Vert	17.0	1.9	25.5		44.4	74	-29.6
(16MHz*72)	Hor	16.3	1.9	25.5		43.7	74	-30.3
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	52.8	2.2	28.2	34.1	49.1	74	-24.9
(Fc * 2)	Hor	56.6	2.2	28.2	34.1	52.9	74	-21.1
2707.875	Vert	53.1	4.0	31.3	33.8	54.6	74	-19.4
(Fc * 3)	Hor	54.9	4.0	31.3	33.8	56.4	74	-17.6
3610.5	Vert	42.6	4.3	33.4	33.5	46.8	74	-27.2
(Fc * 4)	Hor	43.7	4.3	33.4	33.5	47.9	74	-26.1
4513.125	Vert	42.0	5.1	33.9	33.2	47.8	74	-26.2
(Fc * 5)	Hor	43.9	5.1	33.9	33.2	49.7	74	-24.3
5415.75	Vert	41.0	5.5	36.0	33.1	49.4	74	-24.6
(Fc * 6)	Hor	41.0	5.5	36.0	33.1	49.4	74	-24.6
6318.375	Vert	41.0	6.0	36.8	33.2	50.6	74	-23.4
(Fc * 7)	Hor	42.7	6.0	36.8	33.2	52.3	74	-21.7
7221	Vert	41.0	6.4	37.6	33.4	51.6	74	-22.4
(Fc * 8)	Hor	41.0	6.4	37.6	33.4	51.6	74	-22.4
8123.625	Vert	41.0	6.9	37.8	33.6	52.1	74	-21.9
(Fc * 9)	Hor	41.0	6.9	37.8	33.6	52.1	74	-21.9
9026.25	Vert	41.0	7.8	39.8	33.7	54.9	74	-19.1
(Fc * 10)	Hor	41.0	7.8	39.8	33.7	54.9	74	-19.1

Middle Channel 40		915 MHz						
384	Vert	11.2	1.8	15.4		28.4	46	-17.6
(16MHz*24)	Hor	10.7	1.8	15.4		27.9	46	-18.1
1152	Vert	17.0	1.9	25.5		44.4	74	-29.6
(16MHz*72)	Hor	16.3	1.9	25.5		43.7	74	-30.3
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	47.8	2.2	28.3	34.1	44.2	74	-29.8
(Fc * 2)	Hor	52.6	2.2	28.3	34.1	49.0	74	-25.0
2745	Vert	51.3	3.9	31.5	33.8	52.9	74	-21.1
(Fc * 3)	Hor	55.3	3.9	31.5	33.8	56.9	74	-17.1
3660	Vert	41.2	4.3	33.5	33.5	45.5	74	-28.5
(Fc * 4)	Hor	43.2	4.3	33.5	33.5	47.5	74	-26.5
4575	Vert	44.0	4.9	34.1	33.2	49.8	74	-24.2
(Fc * 5)	Hor	43.8	4.9	34.1	33.2	49.6	74	-24.4
5490	Vert	41.0	5.6	36.2	33.1	49.7	74	-24.3
(Fc * 6)	Hor	41.0	5.6	36.2	33.1	49.7	74	-24.3
6405	Vert	42.9	6.2	36.7	33.3	52.5	74	-21.5
(Fc * 7)	Hor	45.6	6.2	36.7	33.3	55.2	74	-18.8
7320	Vert	41.0	6.5	37.7	33.4	51.8	74	-22.2
(Fc * 8)	Hor	41.0	6.5	37.7	33.4	51.8	74	-22.2
8235	Vert	41.0	7.0	37.9	33.4	52.5	74	-21.5
(Fc * 9)	Hor	41.0	7.0	37.9	33.4	52.5	74	-21.5
9150	Vert	41.0	7.7	39.4	33.8	54.3	74	-19.7
(Fc * 10)	Hor	41.0	7.7	39.4	33.8	54.3	74	-19.7

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	11.2	1.8	15.4		28.4	46	-17.6
(16MHz*24)	Hor	10.7	1.8	15.4		27.9	46	-18.1
1152	Vert	17.0	1.9	25.5		44.4	74	-29.6
(16MHz*72)	Hor	16.3	1.9	25.5		43.7	74	-30.3
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	43.4	2.4	28.4	34.1	40.1	74	-33.9
(Fc * 2)	Hor	47.4	2.4	28.4	34.1	44.1	74	-29.9
2782.125	Vert	47.2	3.9	31.6	33.8	48.9	74	-25.1
(Fc * 3)	Hor	57.0	3.9	31.6	33.8	58.7	74	-15.3
3709.5	Vert	42.0	4.2	33.7	33.4	46.5	74	-27.5
(Fc * 4)	Hor	42.2	4.2	33.7	33.4	46.7	74	-27.3
4636.875	Vert	42.0	5.0	34.2	33.2	48.0	74	-26.0
(Fc * 5)	Hor	41.0	5.0	34.2	33.2	47.0	74	-27.0
5564.25	Vert	41.0	5.6	36.3	33.1	49.8	74	-24.2
(Fc * 6)	Hor	41.0	5.6	36.3	33.1	49.8	74	-24.2
6491.625	Vert	44.0	6.1	36.6	33.3	53.4	74	-20.6
(Fc * 7)	Hor	44.4	6.1	36.6	33.3	53.8	74	-20.2
7419	Vert	41.0	6.5	37.9	33.4	52.0	74	-22.0
(Fc * 8)	Hor	41.0	6.5	37.9	33.4	52.0	74	-22.0
8346.4	Vert	41.0	7.0	38.0	33.5	52.5	74	-21.5
(Fc * 9)	Hor	41.0	7.0	38.0	33.5	52.5	74	-21.5
9273.8	Vert	41.0	7.6	39.0	33.9	53.7	74	-20.3
(Fc * 10)	Hor	41.0	7.6	39.0	33.9	53.7	74	-20.3

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal dipole 2.2 dBi terminal antenna

Cedar Rapids, IA

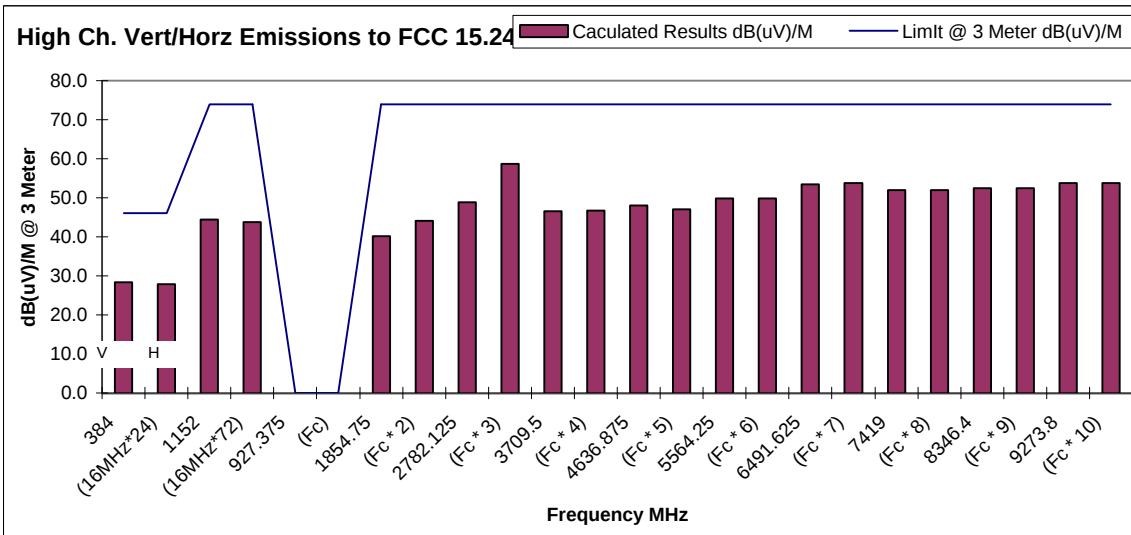
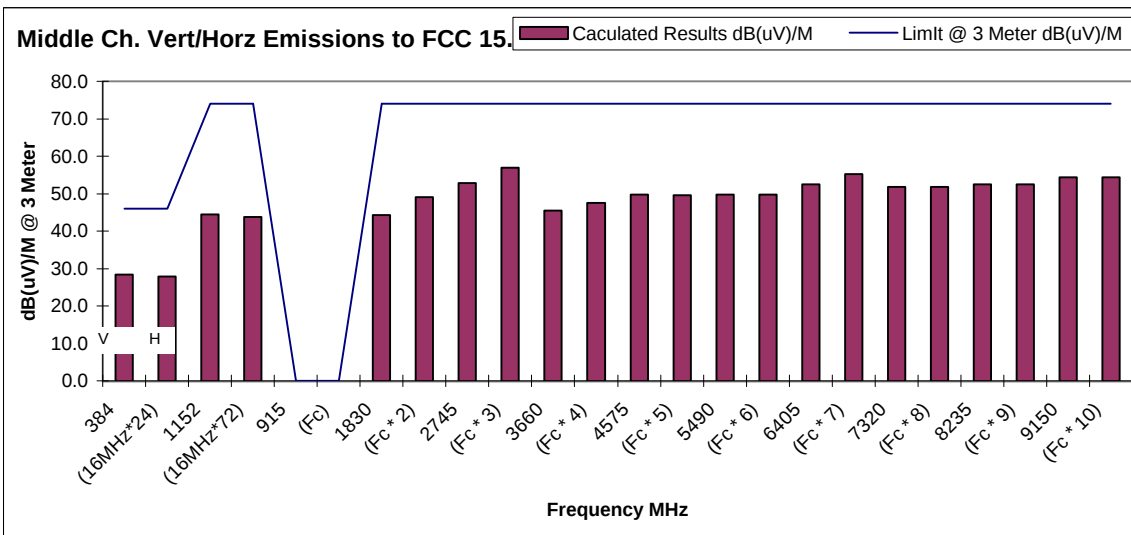
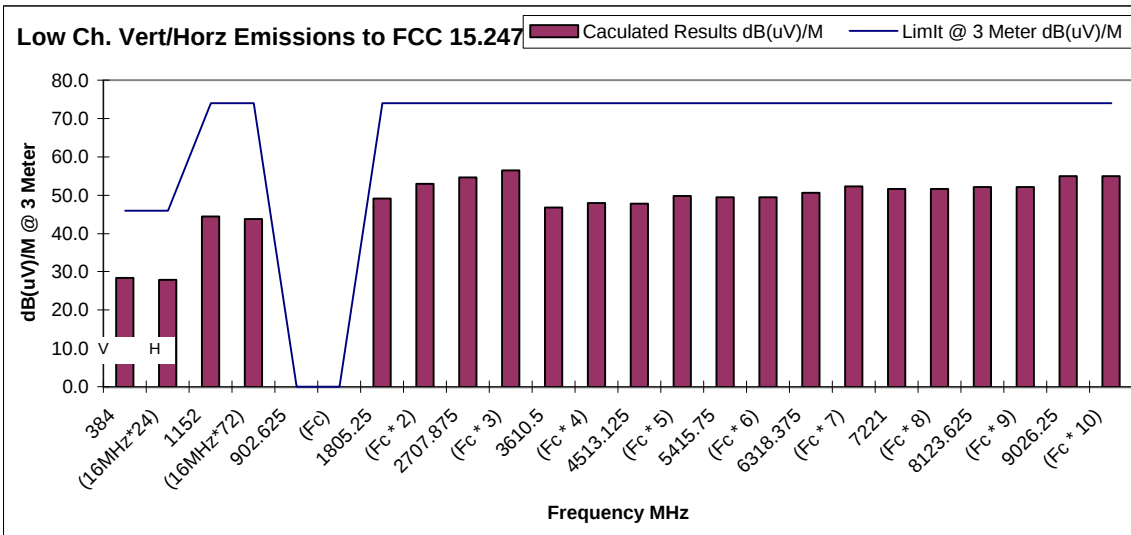
Test Date (mm/dd/yy): 05/15/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/16/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	10.2	1.8	15.4		27.4	46	-18.6
(16MHz*24)	Hor	11.8	1.8	15.4		29.0	46	-17.0
1152	Vert	9.0	1.9	25.5		36.4	60	-23.6
(16MHz*72)	Hor	10.4	1.9	25.5		37.8	60	-22.2
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	58.1	2.2	28.2	34.1	54.4	60	-5.6
(Fc * 2)	Hor	54.8	2.2	28.2	34.1	51.1	60	-8.9
2707.875	Vert	50.5	4.0	31.3	33.8	52.0	60	-8.0
(Fc * 3)	Hor	53.6	4.0	31.3	33.8	55.1	60	-4.9
3610.5	Vert	35.0	4.3	33.4	33.5	39.2	60	-20.8
(Fc * 4)	Hor	33.3	4.3	33.4	33.5	37.5	60	-22.5
4513.125	Vert	34.2	5.1	33.9	33.2	40.0	60	-20.0
(Fc * 5)	Hor	32.0	5.1	33.9	33.2	37.8	60	-22.2
5415.75	Vert	30.0	5.5	36.0	33.1	38.4	60	-21.6
(Fc * 6)	Hor	30.0	5.5	36.0	33.1	38.4	60	-21.6
6318.375	Vert	34.9	6.0	36.8	33.2	44.5	60	-15.5
(Fc * 7)	Hor	32.1	6.0	36.8	33.2	41.7	60	-18.3
7221	Vert	31.0	6.4	37.6	33.4	41.6	60	-18.4
(Fc * 8)	Hor	31.0	6.4	37.6	33.4	41.6	60	-18.4
8123.625	Vert	31.0	6.9	37.8	33.6	42.1	60	-17.9
(Fc * 9)	Hor	31.0	6.9	37.8	33.6	42.1	60	-17.9
9026.25	Vert	31.0	7.8	39.8	33.7	44.9	60	-15.1
(Fc * 10)	Hor	31.0	7.8	39.8	33.7	44.9	60	-15.1

Middle Channel 40		915.000 MHz						
384	Vert	10.2	1.8	15.4		27.4	46	-18.6
(16MHz*24)	Hor	11.8	1.8	15.4		29.0	46	-17.0
1152	Vert	9.0	1.9	25.5		36.4	60	-23.6
(16MHz*72)	Hor	10.4	1.9	25.5		37.8	60	-22.2
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	58.8	2.2	28.3	34.1	55.2	60	-4.8
(Fc * 2)	Hor	54.7	2.2	28.3	34.1	51.1	60	-8.9
2745	Vert	45.3	3.9	31.5	33.8	46.9	60	-13.1
(Fc * 3)	Hor	46.7	3.9	31.5	33.8	48.3	60	-11.7
3660	Vert	31.2	4.3	33.5	33.5	35.5	60	-24.5
(Fc * 4)	Hor	30.9	4.3	33.5	33.5	35.2	60	-24.8
4575	Vert	35.3	4.9	34.1	33.2	41.1	60	-18.9
(Fc * 5)	Hor	32.3	4.9	34.1	33.2	38.1	60	-21.9
5490	Vert	32.9	5.6	36.2	33.1	41.6	60	-18.4
(Fc * 6)	Hor	30.0	5.6	36.2	33.1	38.7	60	-21.3
6405	Vert	32.5	6.2	36.7	33.3	42.1	60	-17.9
(Fc * 7)	Hor	30.0	6.2	36.7	33.3	39.6	60	-20.4
7320	Vert	31.0	6.5	37.7	33.4	41.8	60	-18.2
(Fc * 8)	Hor	31.0	6.5	37.7	33.4	41.8	60	-18.2
8235	Vert	31.0	7.0	37.9	33.4	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	37.9	33.4	42.5	60	-17.5
9150	Vert	31.0	7.7	39.4	33.8	44.3	60	-15.7
(Fc * 10)	Hor	31.0	7.7	39.4	33.8	44.3	60	-15.7

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/16/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	10.2	1.8	15.4		27.4	46	-18.6
(16MHz*24)	Hor	11.8	1.8	15.4		29.0	46	-17.0
1152	Vert	9.0	1.9	25.5		36.4	60	-23.6
(16MHz*72)	Hor	10.4	1.9	25.5		37.8	60	-22.2
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	55.6	2.4	28.4	34.1	52.3	60	-7.7
(Fc * 2)	Hor	51.7	2.4	28.4	34.1	48.4	60	-11.6
2782.125	Vert	48.7	3.9	31.6	33.8	50.4	60	-9.6
(Fc * 3)	Hor	49.1	3.9	31.6	33.8	50.8	60	-9.2
3709.5	Vert	35.4	4.2	33.7	33.4	39.9	60	-20.1
(Fc * 4)	Hor	32.9	4.2	33.7	33.4	37.4	60	-22.6
4636.875	Vert	35.9	5.0	34.2	33.2	41.9	60	-18.1
(Fc * 5)	Hor	33.4	5.0	34.2	33.2	39.4	60	-20.6
5564.25	Vert	31.7	5.6	36.3	33.1	40.5	60	-19.5
(Fc * 6)	Hor	31.4	5.6	36.3	33.1	40.2	60	-19.8
6491.625	Vert	33.0	6.1	36.6	33.3	42.4	60	-17.6
(Fc * 7)	Hor	31.4	6.1	36.6	33.3	40.8	60	-19.2
7419	Vert	31.4	6.5	37.9	33.4	42.4	60	-17.6
(Fc * 8)	Hor	31.4	6.5	37.9	33.4	42.4	60	-17.6
8346.375	Vert	31.4	7.0	38.0	33.5	42.9	60	-17.1
(Fc * 9)	Hor	31.4	7.0	38.0	33.5	42.9	60	-17.1
9273.75	Vert	31.4	7.6	39.0	33.9	44.1	60	-15.9
(Fc * 10)	Hor	31.4	7.6	39.0	33.9	44.1	60	-15.9

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

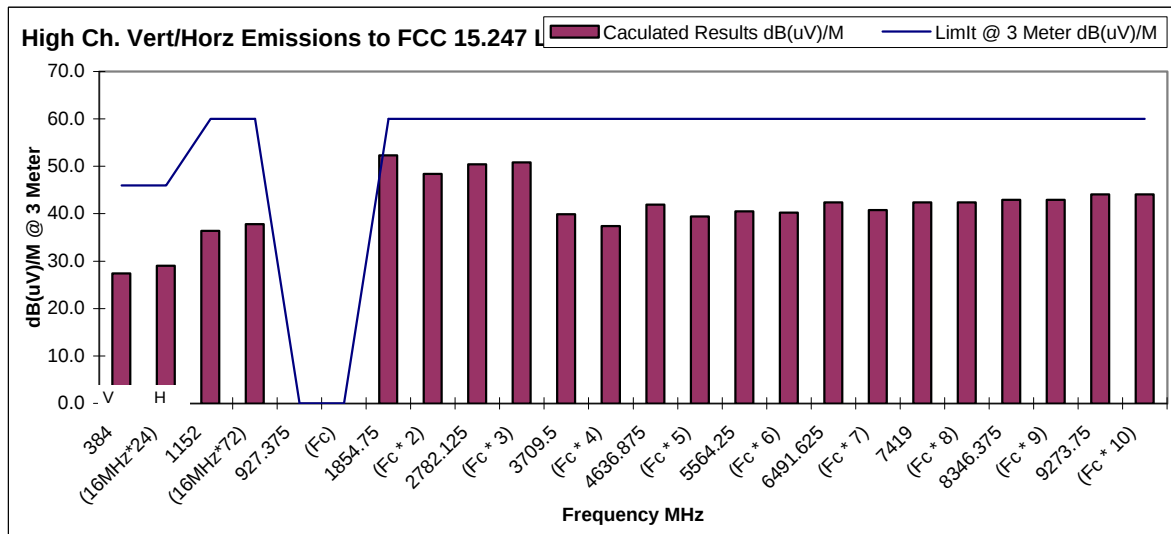
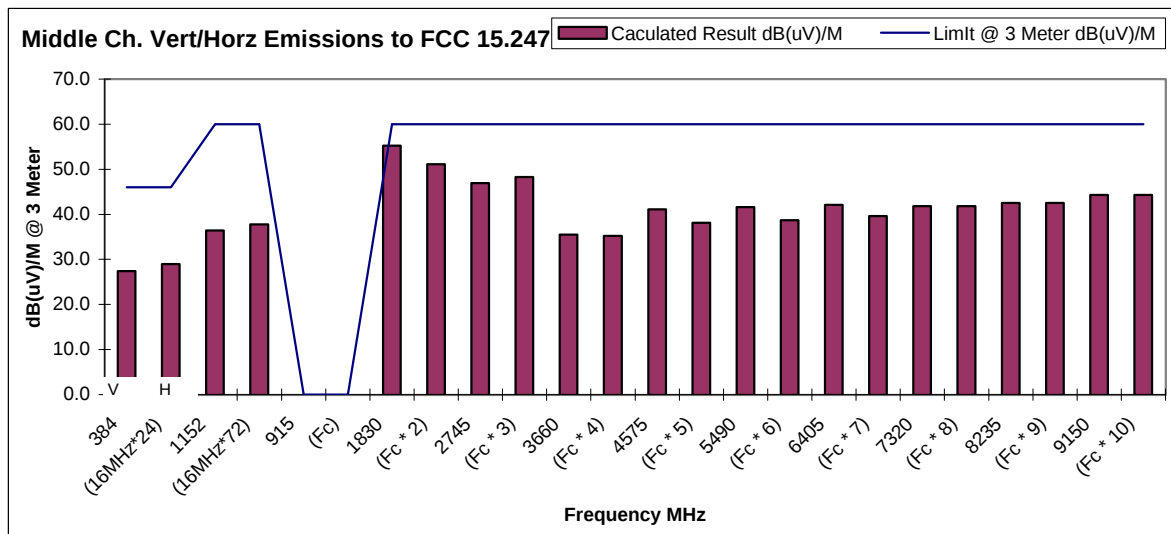
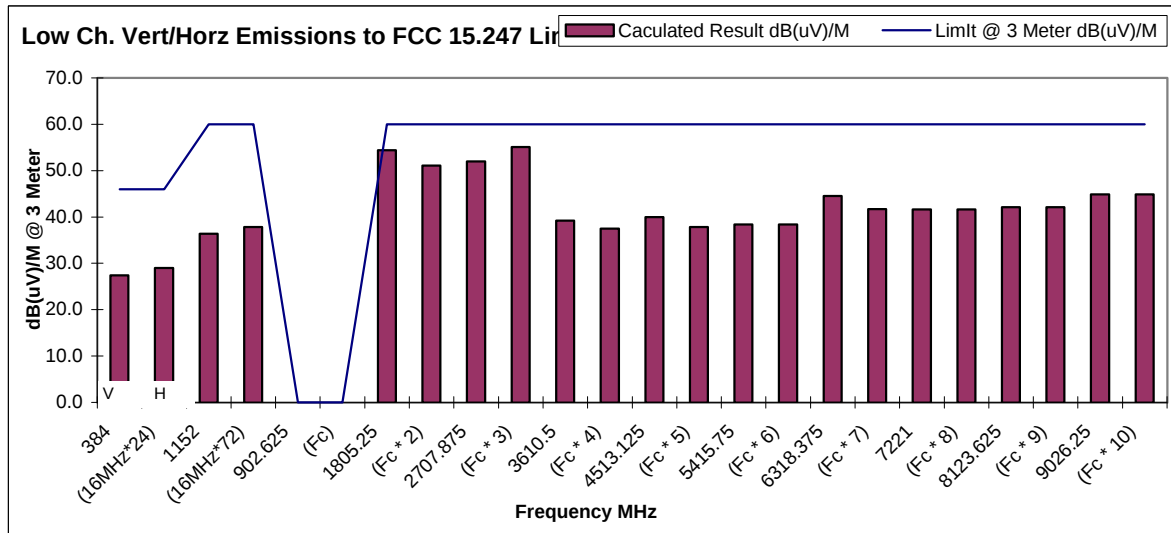
Test Date (mm/dd/yy): 05/16/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/16/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	10.2	1.8	15.4		27.4	46	-18.6
(16MHz*24)	Hor	11.8	1.8	15.4		29.0	46	-17.0
1152	Vert	15.8	1.9	25.5		43.2	74	-30.8
(16MHz*72)	Hor	17.5	1.9	25.5		44.9	74	-29.1
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	58.8	2.2	28.2	34.1	55.1	74	-18.9
(Fc * 2)	Hor	56.2	2.2	28.2	34.1	52.5	74	-21.5
2707.875	Vert	52.4	4.0	31.3	33.8	53.9	74	-20.1
(Fc * 3)	Hor	55.7	4.0	31.3	33.8	57.2	74	-16.8
3610.5	Vert	43.2	4.3	33.4	33.5	47.4	74	-26.6
(Fc * 4)	Hor	42.0	4.3	33.4	33.5	46.2	74	-27.8
4513.125	Vert	43.4	5.1	33.9	33.2	49.2	74	-24.8
(Fc * 5)	Hor	41.7	5.1	33.9	33.2	47.5	74	-26.5
5415.75	Vert	40.1	5.5	36.0	33.1	48.5	74	-25.5
(Fc * 6)	Hor	40.1	5.5	36.0	33.1	48.5	74	-25.5
6318.375	Vert	44.1	6.0	36.8	33.2	53.7	74	-20.3
(Fc * 7)	Hor	42.3	6.0	36.8	33.2	51.9	74	-22.1
7221	Vert	40.1	6.4	37.6	33.4	50.7	74	-23.3
(Fc * 8)	Hor	40.1	6.4	37.6	33.4	50.7	74	-23.3
8123.625	Vert	40.1	6.9	37.8	33.6	51.2	74	-22.8
(Fc * 9)	Hor	40.1	6.9	37.8	33.6	51.2	74	-22.8
9026.25	Vert	40.1	7.8	39.8	33.7	54.0	74	-20.0
(Fc * 10)	Hor	40.1	7.8	39.8	33.7	54.0	74	-20.0

Middle Channel 40		915 MHz						
384	Vert	10.2	1.8	15.4		27.4	46	-18.6
(16MHz*24)	Hor	11.8	1.8	15.4		29.0	46	-17.0
1152	Vert	15.8	1.9	25.5		43.2	74	-30.8
(16MHz*72)	Hor	17.5	1.9	25.5		44.9	74	-29.1
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	59.6	2.2	28.3	34.1	56.0	74	-18.0
(Fc * 2)	Hor	56.9	2.2	28.3	34.1	53.3	74	-20.7
2745	Vert	48.9	3.9	31.5	33.8	50.5	74	-23.5
(Fc * 3)	Hor	49.3	3.9	31.5	33.8	50.9	74	-23.1
3660	Vert	41.5	4.3	33.5	33.5	45.8	74	-28.2
(Fc * 4)	Hor	41.3	4.3	33.5	33.5	45.6	74	-28.4
4575	Vert	43.1	4.9	34.1	33.2	48.9	74	-25.1
(Fc * 5)	Hor	41.6	4.9	34.1	33.2	47.4	74	-26.6
5490	Vert	42.7	5.6	36.2	33.1	51.4	74	-22.6
(Fc * 6)	Hor	40.1	5.6	36.2	33.1	48.8	74	-25.2
6405	Vert	42.4	6.2	36.7	33.3	52.0	74	-22.0
(Fc * 7)	Hor	40.1	6.2	36.7	33.3	49.7	74	-24.3
7320	Vert	40.1	6.5	37.7	33.4	50.9	74	-23.1
(Fc * 8)	Hor	40.1	6.5	37.7	33.4	50.9	74	-23.1
8235	Vert	40.1	7.0	37.9	33.4	51.6	74	-22.4
(Fc * 9)	Hor	40.1	7.0	37.9	33.4	51.6	74	-22.4
9150	Vert	40.1	7.7	39.4	33.8	53.4	74	-20.6
(Fc * 10)	Hor	40.1	7.7	39.4	33.8	53.4	74	-20.6

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/16/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	10.2	1.8	15.4		27.4	46	-18.6
(16MHz*24)	Hor	11.8	1.8	15.4		29.0	46	-17.0
1152	Vert	15.8	1.9	25.5		43.2	74	-30.8
(16MHz*72)	Hor	17.5	1.9	25.5		44.9	74	-29.1
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	57.4	2.4	28.4	34.1	54.1	74	-19.9
(Fc * 2)	Hor	53.4	2.4	28.4	34.1	50.1	74	-23.9
2782.125	Vert	50.4	3.9	31.6	33.8	52.1	74	-21.9
(Fc * 3)	Hor	51.4	3.9	31.6	33.8	53.1	74	-20.9
3709.5	Vert	43.3	4.2	33.7	33.4	47.8	74	-26.2
(Fc * 4)	Hor	43.0	4.2	33.7	33.4	47.5	74	-26.5
4636.875	Vert	44.1	5.0	34.2	33.2	50.1	74	-23.9
(Fc * 5)	Hor	42.6	5.0	34.2	33.2	48.6	74	-25.4
5564.25	Vert	42.6	5.6	36.3	33.1	51.4	74	-22.6
(Fc * 6)	Hor	42.6	5.6	36.3	33.1	51.4	74	-22.6
6491.625	Vert	42.6	6.1	36.6	33.3	52.0	74	-22.0
(Fc * 7)	Hor	42.6	6.1	36.6	33.3	52.0	74	-22.0
7419	Vert	42.6	6.5	37.9	33.4	53.6	74	-20.4
(Fc * 8)	Hor	42.6	6.5	37.9	33.4	53.6	74	-20.4
8346.4	Vert	42.6	7.0	38.0	33.5	54.1	74	-19.9
(Fc * 9)	Hor	42.6	7.0	38.0	33.5	54.1	74	-19.9
9273.8	Vert	42.6	7.6	39.0	33.9	55.3	74	-18.7
(Fc * 10)	Hor	42.6	7.6	39.0	33.9	55.3	74	-18.7

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 horizontal placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

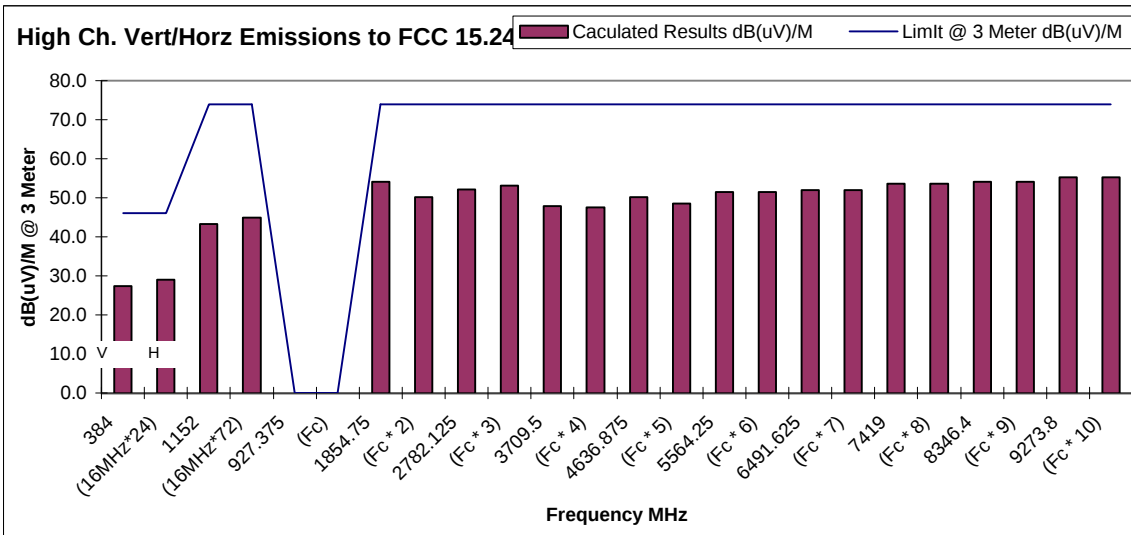
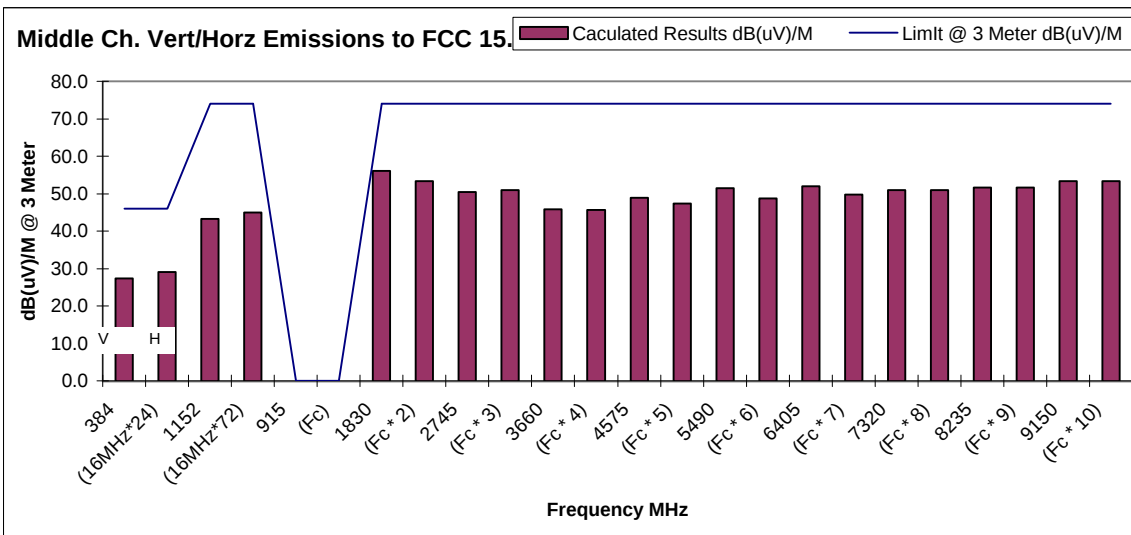
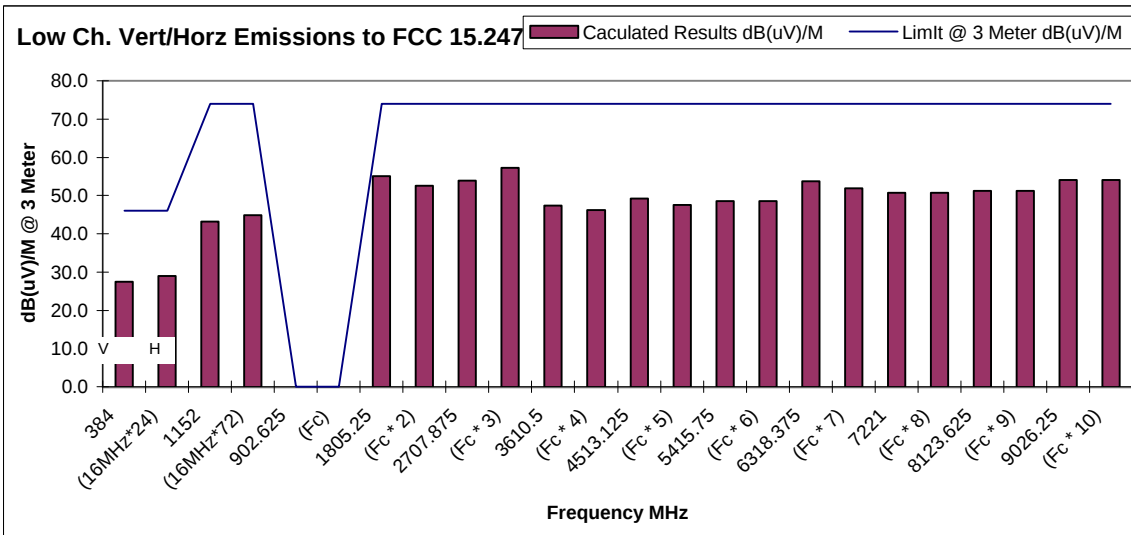
Test Date (mm/dd/yy): 05/16/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/29/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	11.5	1.8	15.4		28.7	46	-17.3
(16MHz*24)	Hor	10.4	1.8	15.4		27.6	46	-18.4
1152	Vert	9.9	1.9	25.5		37.3	60	-22.7
(16MHz*72)	Hor	8.8	1.9	25.5		36.2	60	-23.8
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	56.5	2.2	28.2	34.1	52.8	60	-7.2
(Fc * 2)	Hor	55.5	2.2	28.2	34.1	51.8	60	-8.2
2707.875	Vert	46.7	4.0	31.3	33.8	48.2	60	-11.8
(Fc * 3)	Hor	54.9	4.0	31.3	33.8	56.4	60	-3.6
3610.5	Vert	33.5	4.3	33.4	33.5	37.7	60	-22.3
(Fc * 4)	Hor	34.2	4.3	33.4	33.5	38.4	60	-21.6
4513.125	Vert	31.7	5.1	33.9	33.2	37.5	60	-22.5
(Fc * 5)	Hor	34.0	5.1	33.9	33.2	39.8	60	-20.2
5415.75	Vert	30.0	5.5	36.0	33.1	38.4	60	-21.6
(Fc * 6)	Hor	30.0	5.5	36.0	33.1	38.4	60	-21.6
6318.375	Vert	34.5	6.0	36.8	33.2	44.1	60	-15.9
(Fc * 7)	Hor	32.8	6.0	36.8	33.2	42.4	60	-17.6
7221	Vert	31.0	6.4	37.6	33.4	41.6	60	-18.4
(Fc * 8)	Hor	31.0	6.4	37.6	33.4	41.6	60	-18.4
8123.625	Vert	31.0	6.9	37.8	33.6	42.1	60	-17.9
(Fc * 9)	Hor	31.0	6.9	37.8	33.6	42.1	60	-17.9
9026.25	Vert	31.0	7.8	39.8	33.7	44.9	60	-15.1
(Fc * 10)	Hor	31.0	7.8	39.8	33.7	44.9	60	-15.1

Middle Channel 40		915.000 MHz						
384	Vert	11.5	1.8	15.4		28.7	46	-17.3
(16MHz*24)	Hor	10.4	1.8	15.4		27.6	46	-18.4
1152	Vert	9.9	1.9	25.5		37.3	60	-22.7
(16MHz*72)	Hor	8.8	1.9	25.5		36.2	60	-23.8
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	54.1	2.2	28.3	34.1	50.5	60	-9.5
(Fc * 2)	Hor	55.7	2.2	28.3	34.1	52.1	60	-7.9
2745	Vert	45.8	3.9	31.5	33.8	47.4	60	-12.6
(Fc * 3)	Hor	50.7	3.9	31.5	33.8	52.3	60	-7.7
3660	Vert	30.0	4.3	33.5	33.5	34.3	60	-25.7
(Fc * 4)	Hor	30.0	4.3	33.5	33.5	34.3	60	-25.7
4575	Vert	33.1	4.9	34.1	33.2	38.9	60	-21.1
(Fc * 5)	Hor	35.6	4.9	34.1	33.2	41.4	60	-18.6
5490	Vert	31.7	5.6	36.2	33.1	40.4	60	-19.6
(Fc * 6)	Hor	31.0	5.6	36.2	33.1	39.7	60	-20.3
6405	Vert	31.0	6.2	36.7	33.3	40.6	60	-19.4
(Fc * 7)	Hor	31.0	6.2	36.7	33.3	40.6	60	-19.4
7320	Vert	31.0	6.5	37.7	33.4	41.8	60	-18.2
(Fc * 8)	Hor	31.0	6.5	37.7	33.4	41.8	60	-18.2
8235	Vert	31.0	7.0	37.9	33.4	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	37.9	33.4	42.5	60	-17.5
9150	Vert	31.0	7.7	39.4	33.8	44.3	60	-15.7
(Fc * 10)	Hor	31.0	7.7	39.4	33.8	44.3	60	-15.7

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/29/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	AVERAGE Limit @ 3 Meter dB(uV)/Meter 50% duty cycle correction of 6dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73	927.375	MHz						
384	Vert	11.5	1.8	15.4		28.7	46	-17.3
(16MHz*24)	Hor	10.4	1.8	15.4		27.6	46	-18.4
1152	Vert	9.9	1.9	25.5		37.3	60	-22.7
(16MHz*72)	Hor	8.8	1.9	25.5		36.2	60	-23.8
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	50.1	2.4	28.4	34.1	46.8	60	-13.2
(Fc * 2)	Hor	55.6	2.4	28.4	34.1	52.3	60	-7.7
2782.125	Vert	45.6	3.9	31.6	33.8	47.3	60	-12.7
(Fc * 3)	Hor	48.7	3.9	31.6	33.8	50.4	60	-9.6
3709.5	Vert	32.2	4.2	33.7	33.4	36.7	60	-23.3
(Fc * 4)	Hor	33.5	4.2	33.7	33.4	38.0	60	-22.0
4636.875	Vert	38.5	5.0	34.2	33.2	44.5	60	-15.5
(Fc * 5)	Hor	36.3	5.0	34.2	33.2	42.3	60	-17.7
5564.25	Vert	31.3	5.6	36.3	33.1	40.1	60	-19.9
(Fc * 6)	Hor	31.0	5.6	36.3	33.1	39.8	60	-20.2
6491.625	Vert	31.7	6.1	36.6	33.3	41.1	60	-18.9
(Fc * 7)	Hor	31.6	6.1	36.6	33.3	41.0	60	-19.0
7419	Vert	31.0	6.5	37.9	33.4	42.0	60	-18.0
(Fc * 8)	Hor	31.0	6.5	37.9	33.4	42.0	60	-18.0
8346.375	Vert	31.0	7.0	38.0	33.5	42.5	60	-17.5
(Fc * 9)	Hor	31.0	7.0	38.0	33.5	42.5	60	-17.5
9273.75	Vert	31.0	7.6	39.0	33.9	43.7	60	-16.3
(Fc * 10)	Hor	31.0	7.6	39.0	33.9	43.7	60	-16.3

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

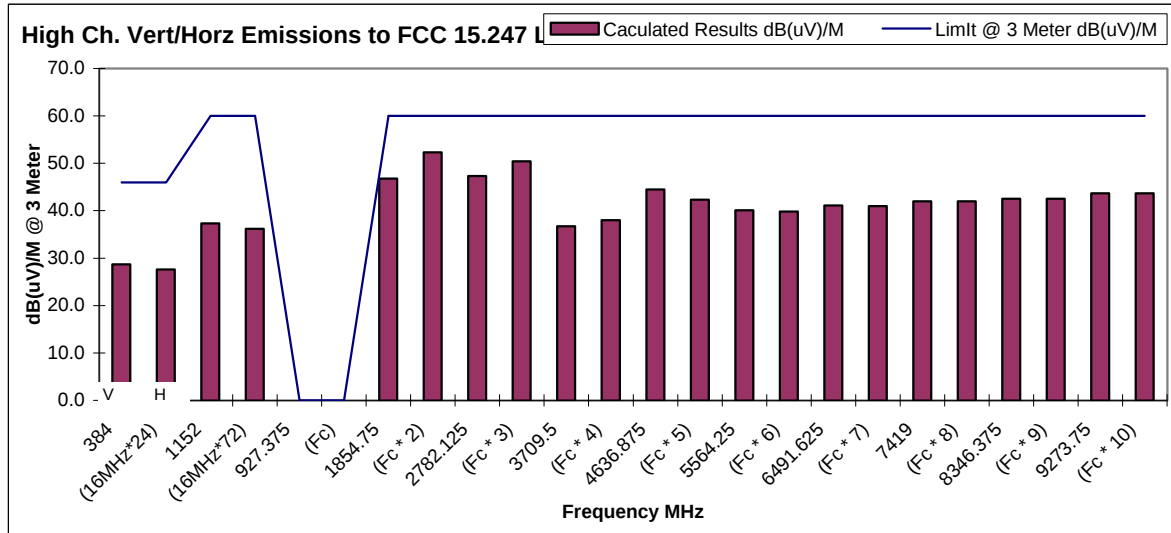
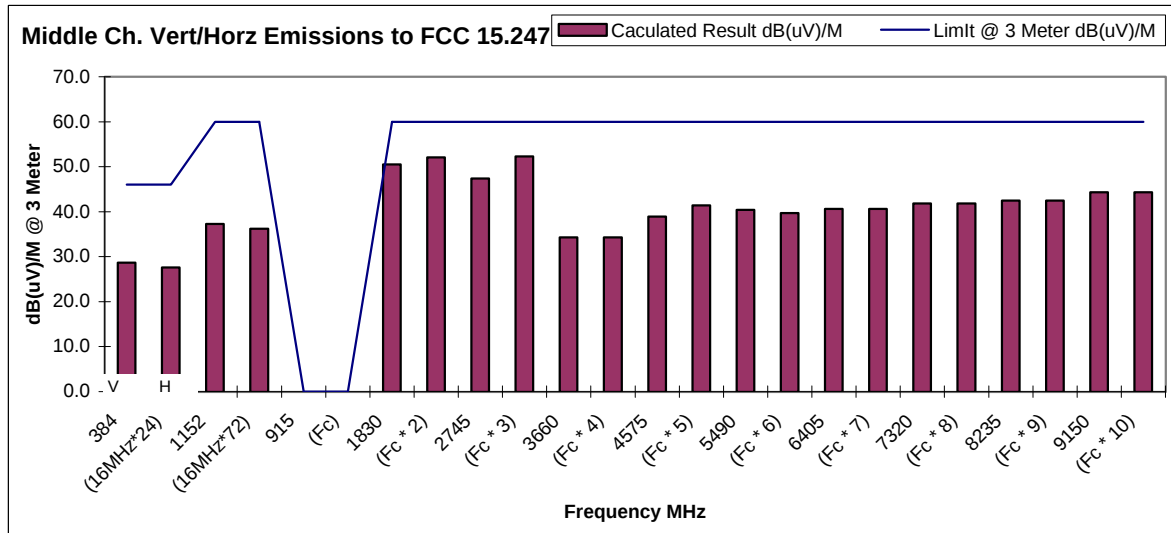
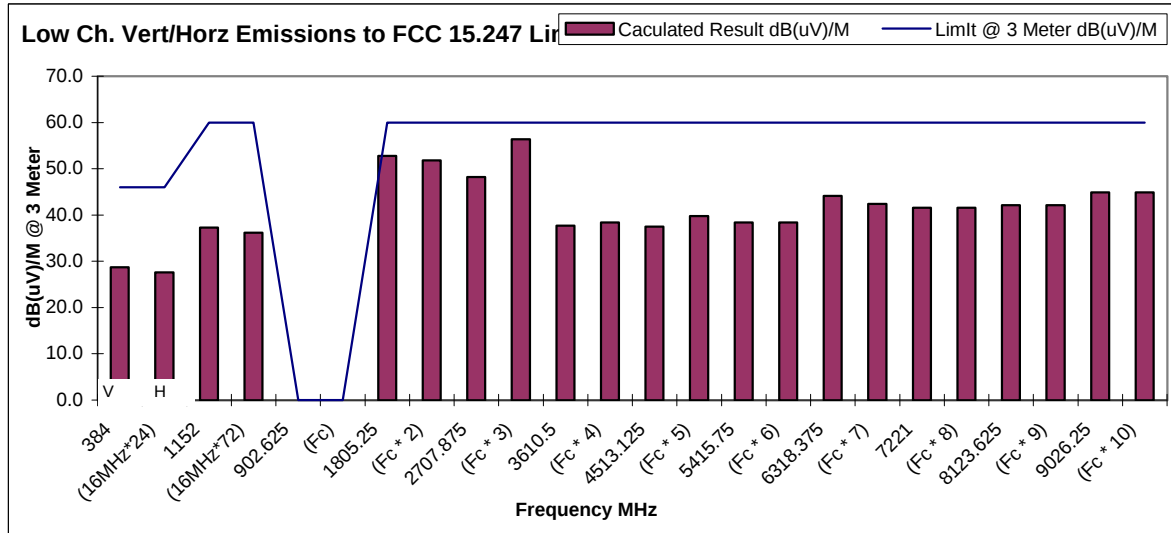
Test Date (mm/dd/yy): 05/29/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 3 kHz

Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/29/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)	Calculated Result dB(uV)/M	QP and PEAK Limit @ 3 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 07		902.625 MHz						
384	Vert	11.5	1.8	15.4		28.7	46	-17.3
(16MHz*24)	Hor	10.4	1.8	15.4		27.6	46	-18.4
1152	Vert	17.2	1.9	25.5		44.6	74	-29.4
(16MHz*72)	Hor	16.1	1.9	25.5		43.5	74	-30.5
902.625	Vert		3.0	23.1				
(Fc)	Hor		3.0	23.1				
1805.25	Vert	57.1	2.2	28.2	34.1	53.4	74	-20.6
(Fc * 2)	Hor	56.6	2.2	28.2	34.1	52.9	74	-21.1
2707.875	Vert	49.2	4.0	31.3	33.8	50.7	74	-23.3
(Fc * 3)	Hor	56.3	4.0	31.3	33.8	57.8	74	-16.2
3610.5	Vert	42.6	4.3	33.4	33.5	46.8	74	-27.2
(Fc * 4)	Hor	42.6	4.3	33.4	33.5	46.8	74	-27.2
4513.125	Vert	41.6	5.1	33.9	33.2	47.4	74	-26.6
(Fc * 5)	Hor	42.6	5.1	33.9	33.2	48.4	74	-25.6
5415.75	Vert	39.0	5.5	36.0	33.1	47.4	74	-26.6
(Fc * 6)	Hor	39.0	5.5	36.0	33.1	47.4	74	-26.6
6318.375	Vert	43.3	6.0	36.8	33.2	52.9	74	-21.1
(Fc * 7)	Hor	40.0	6.0	36.8	33.2	49.6	74	-24.4
7221	Vert	40.0	6.4	37.6	33.4	50.6	74	-23.4
(Fc * 8)	Hor	40.0	6.4	37.6	33.4	50.6	74	-23.4
8123.625	Vert	40.0	6.9	37.8	33.6	51.1	74	-22.9
(Fc * 9)	Hor	40.0	6.9	37.8	33.6	51.1	74	-22.9
9026.25	Vert	40.0	7.8	39.8	33.7	53.9	74	-20.1
(Fc * 10)	Hor	40.0	7.8	39.8	33.7	53.9	74	-20.1

Middle Channel 40		915 MHz						
384	Vert	11.5	1.8	15.4		28.7	46	-17.3
(16MHz*24)	Hor	10.4	1.8	15.4		27.6	46	-18.4
1152	Vert	17.2	1.9	25.5		44.6	74	-29.4
(16MHz*72)	Hor	16.1	1.9	25.5		43.5	74	-30.5
915	Vert		3.1	23.2				
(Fc)	Hor		3.1	23.2				
1830	Vert	55.6	2.2	28.3	34.1	52.0	74	-22.0
(Fc * 2)	Hor	56.5	2.2	28.3	34.1	52.9	74	-21.1
2745	Vert	49.6	3.9	31.5	33.8	51.2	74	-22.8
(Fc * 3)	Hor	52.7	3.9	31.5	33.8	54.3	74	-19.7
3660	Vert	40.0	4.3	33.5	33.5	44.3	74	-29.7
(Fc * 4)	Hor	40.0	4.3	33.5	33.5	44.3	74	-29.7
4575	Vert	42.4	4.9	34.1	33.2	48.2	74	-25.8
(Fc * 5)	Hor	43.7	4.9	34.1	33.2	49.5	74	-24.5
5490	Vert	41.6	5.6	36.2	33.1	50.3	74	-23.7
(Fc * 6)	Hor	40.0	5.6	36.2	33.1	48.7	74	-25.3
6405	Vert	40.0	6.2	36.7	33.3	49.6	74	-24.4
(Fc * 7)	Hor	40.0	6.2	36.7	33.3	49.6	74	-24.4
7320	Vert	40.0	6.5	37.7	33.4	50.8	74	-23.2
(Fc * 8)	Hor	40.0	6.5	37.7	33.4	50.8	74	-23.2
8235	Vert	40.0	7.0	37.9	33.4	51.5	74	-22.5
(Fc * 9)	Hor	40.0	7.0	37.9	33.4	51.5	74	-22.5
9150	Vert	40.0	7.7	39.4	33.8	53.3	74	-20.7
(Fc * 10)	Hor	40.0	7.7	39.4	33.8	53.3	74	-20.7

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/29/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

Frequency (MHz)	Antenna Polarity	Spurious Measured dB(uV)	H.P.filter + Cable Loss (dB)	Antenna Correction Factor dB/M	Amplifier Gain (dB)			
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 73		927.375 MHz						
384	Vert	11.5	1.8	15.4		28.7	46	-17.3
(16MHz*24)	Hor	10.4	1.8	15.4		27.6	46	-18.4
1152	Vert	17.2	1.9	25.5		44.6	74	-29.4
(16MHz*72)	Hor	16.1	1.9	25.5		43.5	74	-30.5
927.375	Vert		3.1	23.3				
(Fc)	Hor		3.1	23.3				
1854.75	Vert	52.2	2.4	28.4	34.1	48.9	74	-25.1
(Fc * 2)	Hor	56.7	2.4	28.4	34.1	53.4	74	-20.6
2782.125	Vert	49.1	3.9	31.6	33.8	50.8	74	-23.2
(Fc * 3)	Hor	51.0	3.9	31.6	33.8	52.7	74	-21.3
3709.5	Vert	42.1	4.2	33.7	33.4	46.6	74	-27.4
(Fc * 4)	Hor	42.8	4.2	33.7	33.4	47.3	74	-26.7
4636.875	Vert	44.8	5.0	34.2	33.2	50.8	74	-23.2
(Fc * 5)	Hor	43.8	5.0	34.2	33.2	49.8	74	-24.2
5564.25	Vert	40.0	5.6	36.3	33.1	48.8	74	-25.2
(Fc * 6)	Hor	40.0	5.6	36.3	33.1	48.8	74	-25.2
6491.625	Vert	41.9	6.1	36.6	33.3	51.3	74	-22.7
(Fc * 7)	Hor	41.9	6.1	36.6	33.3	51.3	74	-22.7
7419	Vert	41.9	6.5	37.9	33.4	52.9	74	-21.1
(Fc * 8)	Hor	41.9	6.5	37.9	33.4	52.9	74	-21.1
8346.4	Vert	41.9	7.0	38.0	33.5	53.4	74	-20.6
(Fc * 9)	Hor	41.9	7.0	38.0	33.5	53.4	74	-20.6
9273.8	Vert	41.9	7.6	39.0	33.9	54.6	74	-19.4
(Fc * 10)	Hor	41.9	7.6	39.0	33.9	54.6	74	-19.4

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARFID915PCC-6

Intermec Technologies Corporation

Product: Intermec 915 MHz PC Card RF Identification Radio Module in 6110

EMC Test Laboratory

Set Up: 6110 vertical placement with Fractal patch 0 dBi terminal antenna

Cedar Rapids, IA

Test Date (mm/dd/yy): 05/29/01

Standard: FCC 15.247

Measurement System Calibration Date: 4/6/00

Span 100 MHz, Res. B.W. 1 MHz, Video B.W. 1 MHz

Quasi-peak measurement below 1 GHz, Peak measurements above 1 GHz

