

MEASUREMENT/TECHNICAL REPORT



Intermec Technologies Corporation
RM915L Legacy Radio
915 MHz Spread Spectrum Transmitter

REPORT NO: 040525-1

DATE: May 25, 2004

Appendix E

TX RADIATED EMISSIONS DATA

Quasi-peak, average and peak radiated spurious emissions.

Configurations

Pages 2-7 RT 1770 radio terminal placed vertically (X axis).

Pages 8-13 RT 1770 radio terminal placed horizontally (Y axis).

Pages 14-19 RT 1770 radio terminal placed sideways (Z axis).

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit HORIZONTAL (Y axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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 duty cycle correction of 12dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 11		907.500	MHz					
836.5	Vert	9.93	3.10	22.20		35.23	48	-12.8
Lo	Hor	16.73	3.10	22.20		42.03	48	-6.0
907.5	Vert	90.35	3.40	23.20		116.95		
(Fc)	Hor	99.81	3.40	23.20		126.41		
1815	Vert	42.51	4.54	27.76	33.50	41.31	107	-66.1
(Fc * 2)	Hor	44.79	4.54	27.76	33.50	43.59	107	-63.8
2722.5	Vert	42.69	4.25	29.52	33.58	42.88	66	-23.1
(Fc * 3)	Hor	41.24	4.25	29.52	33.58	41.43	66	-24.6
3630	Vert	46.66	4.18	31.58	33.40	49.02	66	-17.0
(Fc * 4)	Hor	47.42	4.18	31.58	33.40	49.78	66	-16.2
4537.5	Vert	38.47	5.16	32.95	33.08	43.50	66	-22.5
(Fc * 5)	Hor	37.42	5.16	32.95	33.08	42.45	66	-23.6
5445	Vert	55.24	5.59	34.49	32.44	62.88	66	-3.1
(Fc * 6)	Hor	57.87	5.59	34.49	32.44	65.51	66	-0.5
6352.5	Vert	32.50	6.45	34.88	31.80	42.03	107	-65.4
(Fc * 7)	Hor	32.58	6.45	34.88	31.80	42.11	107	-65.3
7260	Vert	34.80	6.50	36.50	32.30	45.50	66	-20.5
(Fc * 8)	Hor	33.53	6.50	36.50	32.30	44.23	66	-21.8
8167.5	Vert	33.84	7.00	38.36	33.06	46.14	66	-19.9
(Fc * 9)	Hor	32.34	7.00	38.36	33.06	44.64	66	-21.4
9075	Vert	32.25	6.86	38.54	33.22	44.43	66	-21.6
(Fc * 10)	Hor	32.26	6.86	38.54	33.22	44.44	66	-21.6

Middle Channel 26		915.000	MHz					
844	Vert	5.58	3.10	22.35		31.03	48	-17.0
Lo	Hor	5.22	3.10	22.35		30.67	48	-17.3
915	Vert	89.58	3.40	23.25		116.23		
(Fc)	Hor	99.50	3.40	23.25		126.15		
1830	Vert	45.54	4.57	27.92	33.50	44.53	107	-62.9
(Fc * 2)	Hor	44.98	4.57	27.92	33.50	43.97	107	-63.5
2745	Vert	39.35	4.32	29.65	33.60	39.72	66	-26.3
(Fc * 3)	Hor	35.88	4.32	29.65	33.60	36.25	66	-29.8
3660	Vert	49.53	4.21	31.72	33.38	52.08	66	-13.9
(Fc * 4)	Hor	46.83	4.21	31.72	33.38	49.38	66	-16.6
4575	Vert	35.49	4.91	33.18	33.04	40.54	66	-25.5
(Fc * 5)	Hor	34.89	4.91	33.18	33.04	39.94	66	-26.1
5490	Vert	56.88	5.36	34.50	32.40	64.34	107	-43.1
(Fc * 6)	Hor	57.83	5.36	34.50	32.40	65.29	107	-42.1
6405	Vert	32.46	6.14	34.92	31.72	41.80	107	-65.6
(Fc * 7)	Hor	32.36	6.14	34.92	31.72	41.70	107	-65.7
7320	Vert	31.98	6.23	36.46	32.60	42.07	66	-23.9
(Fc * 8)	Hor	31.92	6.23	36.46	32.60	42.01	66	-24.0
8235	Vert	32.48	6.58	38.20	33.09	44.17	66	-21.8
(Fc * 9)	Hor	32.24	6.58	38.20	33.09	43.93	66	-22.1
9150	Vert	32.01	7.06	38.42	33.26	44.23	66	-21.8
(Fc * 10)	Hor	32.18	7.06	38.42	33.26	44.40	66	-21.6

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

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Cedar Rapids, IA

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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 duty cycle correction of 12dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 41		922.500	MHz					
851.5	Vert	7.84	3.15	22.40		33.39	48	-14.6
Lo	Hor	13.37	3.15	22.40		38.92	48	-9.1
922.5	Vert	90.91	3.40	23.20		117.51		
(Fc)	Hor	100.82	3.40	23.20		127.42		
1845	Vert	48.10	4.46	27.92	33.45	47.03	107	-60.4
(Fc * 2)	Hor	42.72	4.46	27.92	33.45	41.65	107	-65.8
2767.5	Vert	40.66	4.27	29.72	33.61	41.04	66	-25.0
(Fc * 3)	Hor	39.87	4.27	29.72	33.61	40.25	66	-25.8
3690	Vert	44.69	4.19	31.86	33.34	47.40	66	-18.6
(Fc * 4)	Hor	42.79	4.19	31.86	33.34	45.50	66	-20.5
4612.5	Vert	34.02	4.97	33.28	33.00	39.27	66	-26.7
(Fc * 5)	Hor	34.38	4.97	33.28	33.00	39.63	66	-26.4
5535	Vert	54.03	5.54	34.51	32.38	61.70	107	-45.7
(Fc * 6)	Hor	53.02	5.54	34.51	32.38	60.69	107	-46.7
6457.5	Vert	33.04	6.65	34.98	31.63	43.04	107	-64.4
(Fc * 7)	Hor	33.08	6.65	34.98	31.63	43.08	107	-64.3
7380	Vert	32.21	6.72	36.38	32.92	42.39	66	-23.6
(Fc * 8)	Hor	32.25	6.72	36.38	32.92	42.43	66	-23.6
8302.5	Vert	34.99	6.86	38.08	33.13	46.80	66	-19.2
(Fc * 9)	Hor	34.14	6.86	38.08	33.13	45.95	66	-20.1
9225	Vert	32.31	7.19	38.30	33.30	44.50	66	-21.5
(Fc * 10)	Hor	32.33	7.19	38.30	33.30	44.52	66	-21.5

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Cedar Rapids, IA

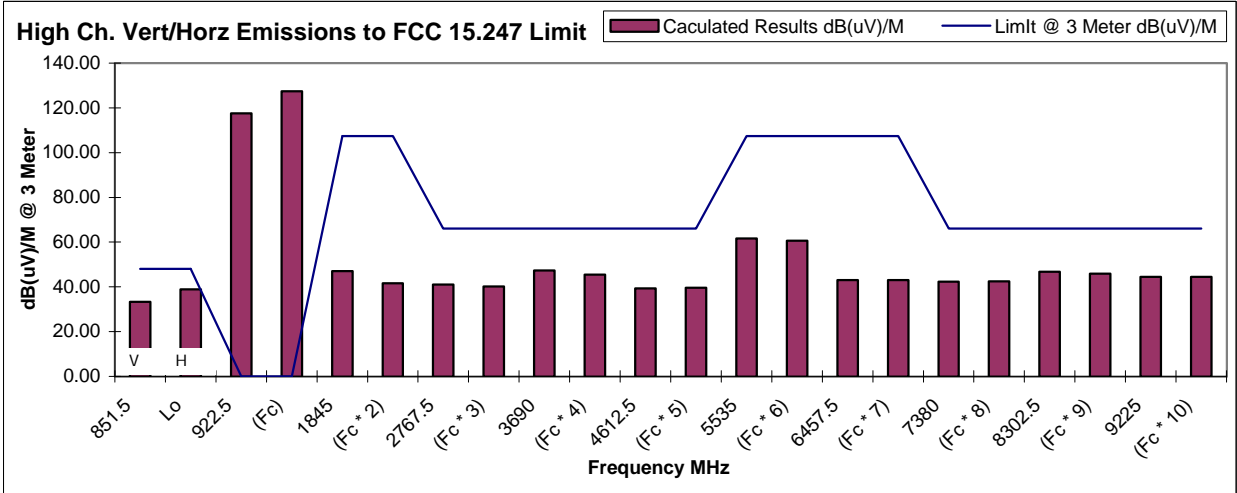
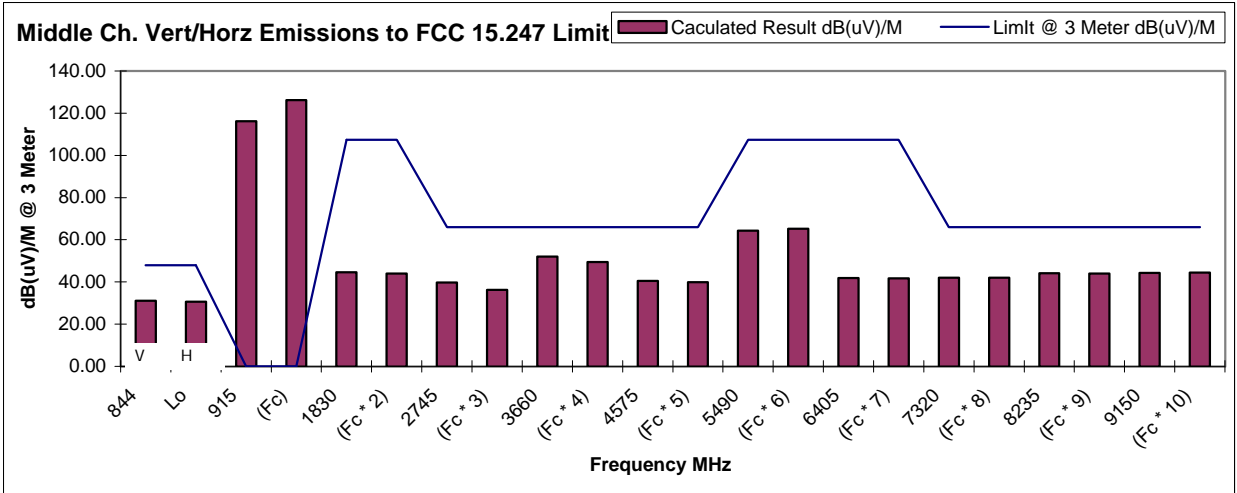
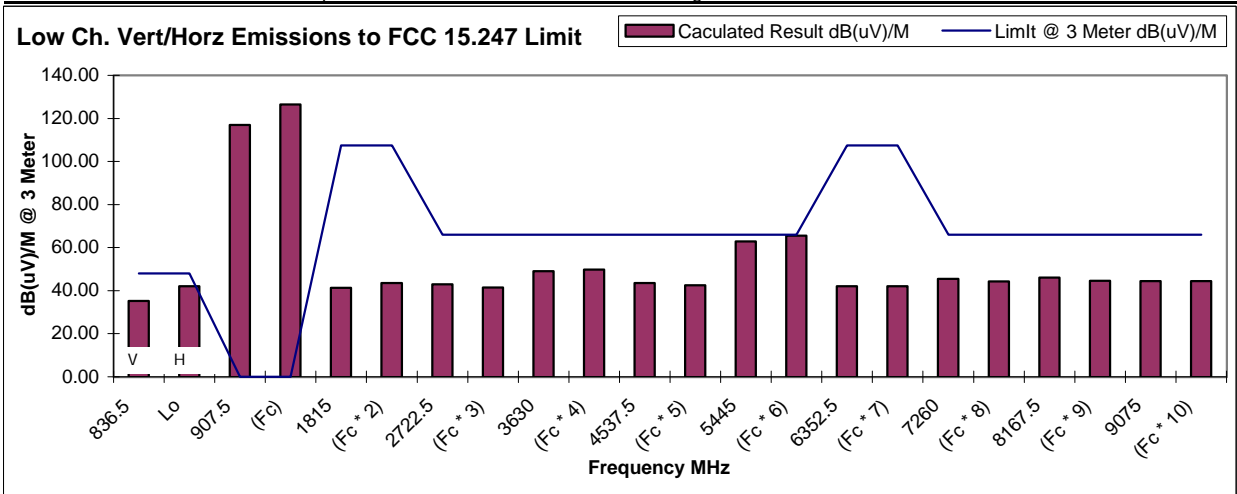
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Quasi-peak measurement below 1 GHz, Average measurements above 1 GHz



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

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Cedar Rapids, IA

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

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	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 11		907.5 MHz						
836.5	Vert		3.10	22.20				
Lo	Hor		3.10	22.20				
907.5	Vert	90.35	3.40	23.20				
(Fc)	Hor	99.81	3.40	23.20				
1815	Vert	51.69	4.54	27.76	33.50	50.49	74	-23.5
(Fc * 2)	Hor	53.47	4.54	27.76	33.50	52.27	74	-21.7
2722.5	Vert	52.17	4.25	29.52	33.58	52.36	74	-21.6
(Fc * 3)	Hor	51.61	4.25	29.52	33.58	51.80	74	-22.2
3630	Vert	51.84	4.18	31.58	33.40	54.20	74	-19.8
(Fc * 4)	Hor	51.36	4.18	31.58	33.40	53.72	74	-20.3
4537.5	Vert	47.94	5.16	32.95	33.08	52.97	74	-21.0
(Fc * 5)	Hor	47.19	5.16	32.95	33.08	52.22	74	-21.8
5445	Vert	63.97	5.59	34.49	32.44	71.61	74	-2.4
(Fc * 6)	Hor	66.08	5.59	34.49	32.44	73.72	74	-0.3
6352.5	Vert	44.32	6.45	34.88	31.80	53.85	74	-20.2
(Fc * 7)	Hor	44.34	6.45	34.88	31.80	53.87	74	-20.1
7260	Vert	45.11	6.50	36.50	32.30	55.81	74	-18.2
(Fc * 8)	Hor	44.37	6.50	36.50	32.30	55.07	74	-18.9
8167.5	Vert	44.63	7.00	38.36	33.06	56.93	74	-17.1
(Fc * 9)	Hor	44.52	7.00	38.36	33.06	56.82	74	-17.2
9075	Vert	44.67	6.86	38.54	33.22	56.85	74	-17.2
(Fc * 10)	Hor	43.84	6.86	38.54	33.22	56.02	74	-18.0

Middle Channel 26		915 MHz						
844	Vert		3.10	22.35				
Lo	Hor		3.10	22.35				
915	Vert	89.58	3.40	23.25				
(Fc)	Hor	99.50	3.40	23.25				
1830	Vert	54.22	4.57	27.92	33.50	53.21	74	-20.8
(Fc * 2)	Hor	52.97	4.57	27.92	33.50	51.96	74	-22.0
2745	Vert	48.83	4.32	29.65	33.60	49.20	74	-24.8
(Fc * 3)	Hor	47.30	4.32	29.65	33.60	47.67	74	-26.3
3660	Vert	53.64	4.21	31.72	33.38	56.19	74	-17.8
(Fc * 4)	Hor	50.82	4.21	31.72	33.38	53.37	74	-20.6
4575	Vert	46.06	4.91	33.18	33.04	51.11	74	-22.9
(Fc * 5)	Hor	44.86	4.91	33.18	33.04	49.91	74	-24.1
5490	Vert	64.74	5.36	34.50	32.40	72.20	74	-1.8
(Fc * 6)	Hor	65.98	5.36	34.50	32.40	73.44	74	-0.6
6405	Vert	44.70	6.14	34.92	31.72	54.04	74	-20.0
(Fc * 7)	Hor	44.21	6.14	34.92	31.72	53.55	74	-20.5
7320	Vert	43.39	6.23	36.46	32.60	53.48	74	-20.5
(Fc * 8)	Hor	43.78	6.23	36.46	32.60	53.87	74	-20.1
8235	Vert	44.06	6.58	38.20	33.09	55.75	74	-18.3
(Fc * 9)	Hor	44.08	6.58	38.20	33.09	55.77	74	-18.2
9150	Vert	44.39	7.06	38.42	33.26	56.61	74	-17.4
(Fc * 10)	Hor	44.15	7.06	38.42	33.26	56.37	74	-17.6

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

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Intermec Technologies Corporation

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EMC Test Laboratory

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

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	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)
High Channel 41		922.5	MHz					
851.5	Vert		3.15	22.40				
Lo	Hor		3.15	22.40				
922.5	Vert	90.91	3.40	23.20				
(Fc)	Hor	100.82	3.40	23.20				
1845	Vert	55.80	4.46	27.92	33.45	54.73	74	-19.3
(Fc * 2)	Hor	50.98	4.46	27.92	33.45	49.91	74	-24.1
2767.5	Vert	50.36	4.27	29.72	33.61	50.74	74	-23.3
(Fc * 3)	Hor	49.67	4.27	29.72	33.61	50.05	74	-24.0
3690	Vert	50.22	4.19	31.86	33.34	52.93	74	-21.1
(Fc * 4)	Hor	48.74	4.19	31.86	33.34	51.45	74	-22.6
4612.5	Vert	44.52	4.97	33.28	33.00	49.77	74	-24.2
(Fc * 5)	Hor	45.40	4.97	33.28	33.00	50.65	74	-23.4
5535	Vert	63.41	5.54	34.51	32.38	71.08	74	-2.9
(Fc * 6)	Hor	62.72	5.54	34.51	32.38	70.39	74	-3.6
6457.5	Vert	44.88	6.65	34.98	31.63	54.88	74	-19.1
(Fc * 7)	Hor	44.57	6.65	34.98	31.63	54.57	74	-19.4
7380	Vert	43.92	6.72	36.38	32.92	54.10	74	-19.9
(Fc * 8)	Hor	43.84	6.72	36.38	32.92	54.02	74	-20.0
8302.5	Vert	45.92	6.86	38.08	33.13	57.73	74	-16.3
(Fc * 9)	Hor	44.81	6.86	38.08	33.13	56.62	74	-17.4
9225	Vert	44.19	7.19	38.30	33.30	56.38	74	-17.6
(Fc * 10)	Hor	44.06	7.19	38.30	33.30	56.25	74	-17.8

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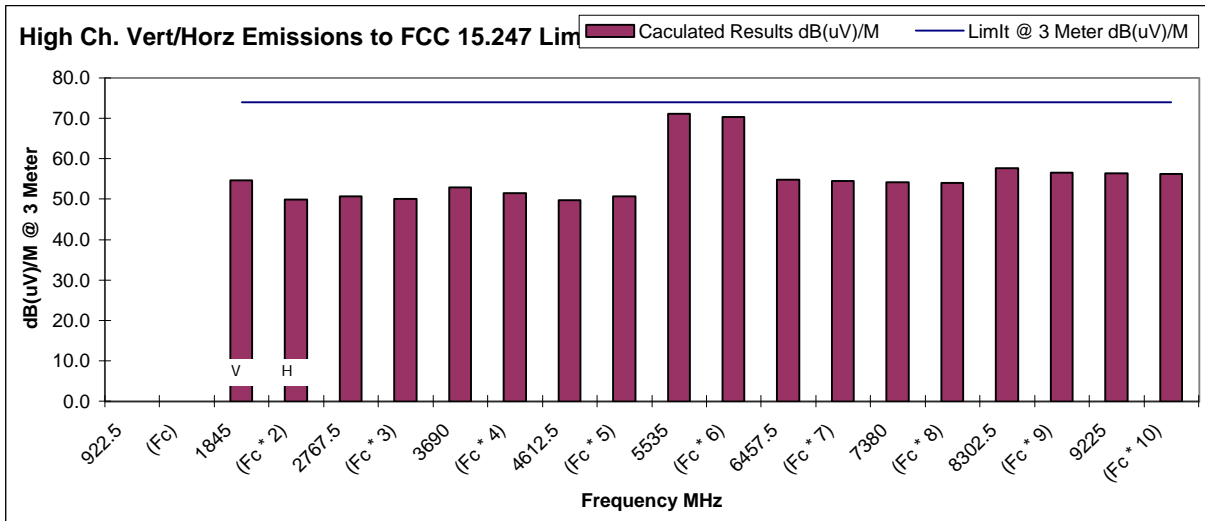
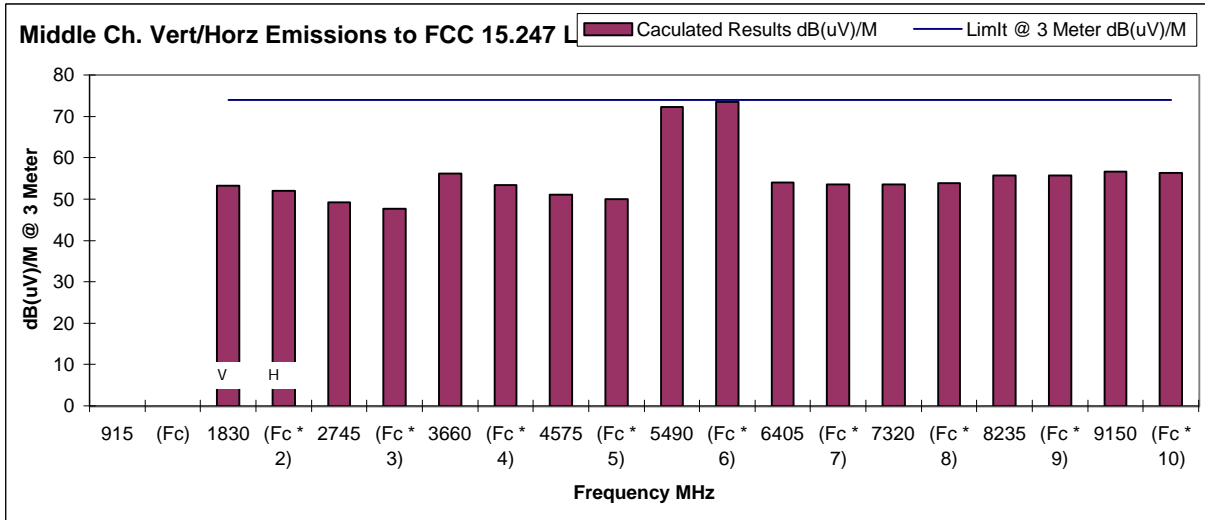
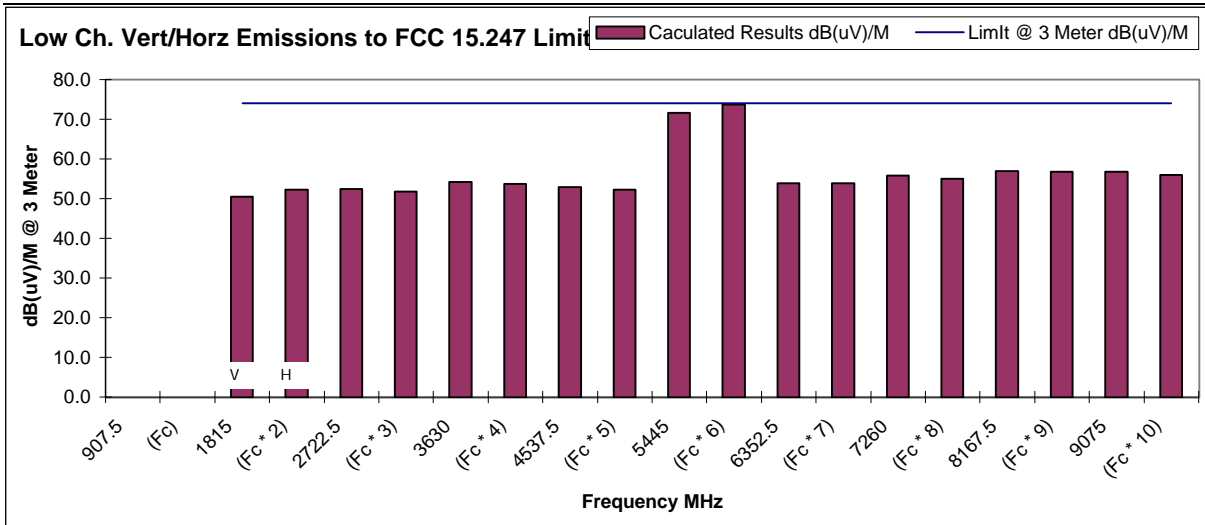
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(formula)						(=c+d+e-f)		(=g-h)
Low Channel 11		907.500	MHz					
836.5	Vert	9.93	3.10	22.20		35.23	48	-12.8
Lo	Hor	16.73	3.10	22.20		42.03	48	-6.0
907.5	Vert	90.35	3.40	23.20		116.95		
(Fc)	Hor	99.81	3.40	23.20		126.41		
1815	Vert	42.51	4.54	27.76	33.50	41.31	107	-66.1
(Fc * 2)	Hor	44.79	4.54	27.76	33.50	43.59	107	-63.8
2722.5	Vert	42.69	4.25	29.52	33.58	42.88	66	-23.1
(Fc * 3)	Hor	41.24	4.25	29.52	33.58	41.43	66	-24.6
3630	Vert	46.66	4.18	31.58	33.40	49.02	66	-17.0
(Fc * 4)	Hor	47.42	4.18	31.58	33.40	49.78	66	-16.2
4537.5	Vert	38.47	5.16	32.95	33.08	43.50	66	-22.5
(Fc * 5)	Hor	37.42	5.16	32.95	33.08	42.45	66	-23.6
5445	Vert	55.24	5.59	34.49	32.44	62.88	66	-3.1
(Fc * 6)	Hor	57.87	5.59	34.49	32.44	65.51	66	-0.5
6352.5	Vert	32.50	6.45	34.88	31.80	42.03	107	-65.4
(Fc * 7)	Hor	32.58	6.45	34.88	31.80	42.11	107	-65.3
7260	Vert	34.80	6.50	36.50	32.30	45.50	66	-20.5
(Fc * 8)	Hor	33.53	6.50	36.50	32.30	44.23	66	-21.8
8167.5	Vert	33.84	7.00	38.36	33.06	46.14	66	-19.9
(Fc * 9)	Hor	32.34	7.00	38.36	33.06	44.64	66	-21.4
9075	Vert	32.25	6.86	38.54	33.22	44.43	66	-21.6
(Fc * 10)	Hor	32.26	6.86	38.54	33.22	44.44	66	-21.6

Middle Channel 26		915.000	MHz					
844	Vert	5.58	3.10	22.35		31.03	48	-17.0
Lo	Hor	5.22	3.10	22.35		30.67	48	-17.3
915	Vert	89.58	3.40	23.25		116.23		
(Fc)	Hor	99.50	3.40	23.25		126.15		
1830	Vert	45.54	4.57	27.92	33.50	44.53	107	-62.9
(Fc * 2)	Hor	44.98	4.57	27.92	33.50	43.97	107	-63.5
2745	Vert	39.35	4.32	29.65	33.60	39.72	66	-26.3
(Fc * 3)	Hor	35.88	4.32	29.65	33.60	36.25	66	-29.8
3660	Vert	49.53	4.21	31.72	33.38	52.08	66	-13.9
(Fc * 4)	Hor	46.83	4.21	31.72	33.38	49.38	66	-16.6
4575	Vert	35.49	4.91	33.18	33.04	40.54	66	-25.5
(Fc * 5)	Hor	34.89	4.91	33.18	33.04	39.94	66	-26.1
5490	Vert	56.88	5.36	34.50	32.40	64.34	107	-43.1
(Fc * 6)	Hor	57.83	5.36	34.50	32.40	65.29	107	-42.1
6405	Vert	32.46	6.14	34.92	31.72	41.80	107	-65.6
(Fc * 7)	Hor	32.36	6.14	34.92	31.72	41.70	107	-65.7
7320	Vert	31.98	6.23	36.46	32.60	42.07	66	-23.9
(Fc * 8)	Hor	31.92	6.23	36.46	32.60	42.01	66	-24.0
8235	Vert	32.48	6.58	38.20	33.09	44.17	66	-21.8
(Fc * 9)	Hor	32.24	6.58	38.20	33.09	43.93	66	-22.1
9150	Vert	32.01	7.06	38.42	33.26	44.23	66	-21.8
(Fc * 10)	Hor	32.18	7.06	38.42	33.26	44.40	66	-21.6

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit HORIZONTAL (Y axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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 duty cycle correction of 12dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 41		922.500	MHz					
851.5	Vert	7.84	3.15	22.40		33.39	48	-14.6
Lo	Hor	13.37	3.15	22.40		38.92	48	-9.1
922.5	Vert	90.91	3.40	23.20		117.51		
(Fc)	Hor	100.82	3.40	23.20		127.42		
1845	Vert	48.10	4.46	27.92	33.45	47.03	107	-60.4
(Fc * 2)	Hor	42.72	4.46	27.92	33.45	41.65	107	-65.8
2767.5	Vert	40.66	4.27	29.72	33.61	41.04	66	-25.0
(Fc * 3)	Hor	39.87	4.27	29.72	33.61	40.25	66	-25.8
3690	Vert	44.69	4.19	31.86	33.34	47.40	66	-18.6
(Fc * 4)	Hor	42.79	4.19	31.86	33.34	45.50	66	-20.5
4612.5	Vert	34.02	4.97	33.28	33.00	39.27	66	-26.7
(Fc * 5)	Hor	34.38	4.97	33.28	33.00	39.63	66	-26.4
5535	Vert	54.03	5.54	34.51	32.38	61.70	107	-45.7
(Fc * 6)	Hor	53.02	5.54	34.51	32.38	60.69	107	-46.7
6457.5	Vert	33.04	6.65	34.98	31.63	43.04	107	-64.4
(Fc * 7)	Hor	33.08	6.65	34.98	31.63	43.08	107	-64.3
7380	Vert	32.21	6.72	36.38	32.92	42.39	66	-23.6
(Fc * 8)	Hor	32.25	6.72	36.38	32.92	42.43	66	-23.6
8302.5	Vert	34.99	6.86	38.08	33.13	46.80	66	-19.2
(Fc * 9)	Hor	34.14	6.86	38.08	33.13	45.95	66	-20.1
9225	Vert	32.31	7.19	38.30	33.30	44.50	66	-21.5
(Fc * 10)	Hor	32.33	7.19	38.30	33.30	44.52	66	-21.5

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit HORIZONTAL (Y axis)

Cedar Rapids, IA

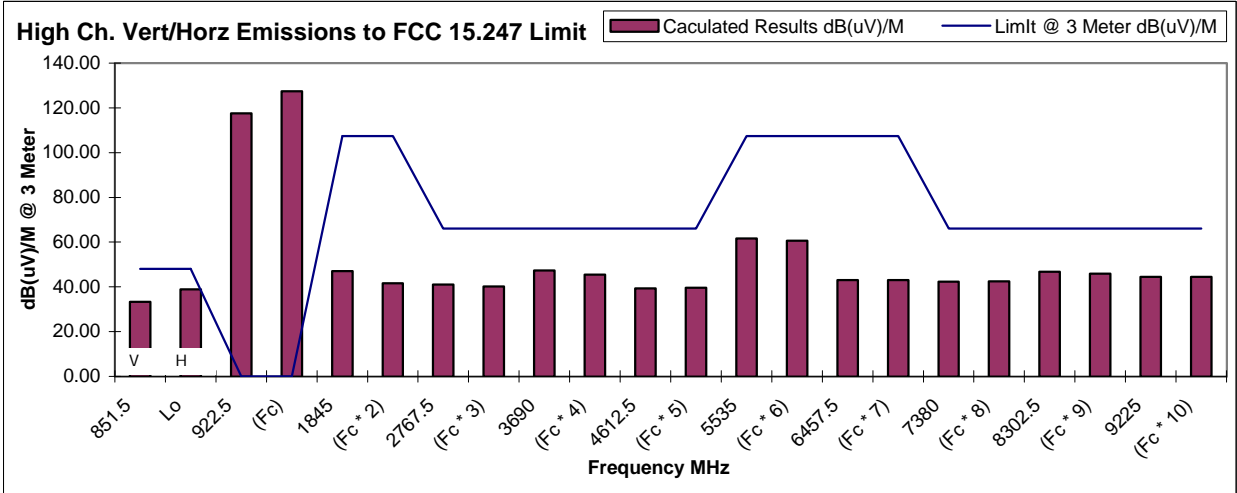
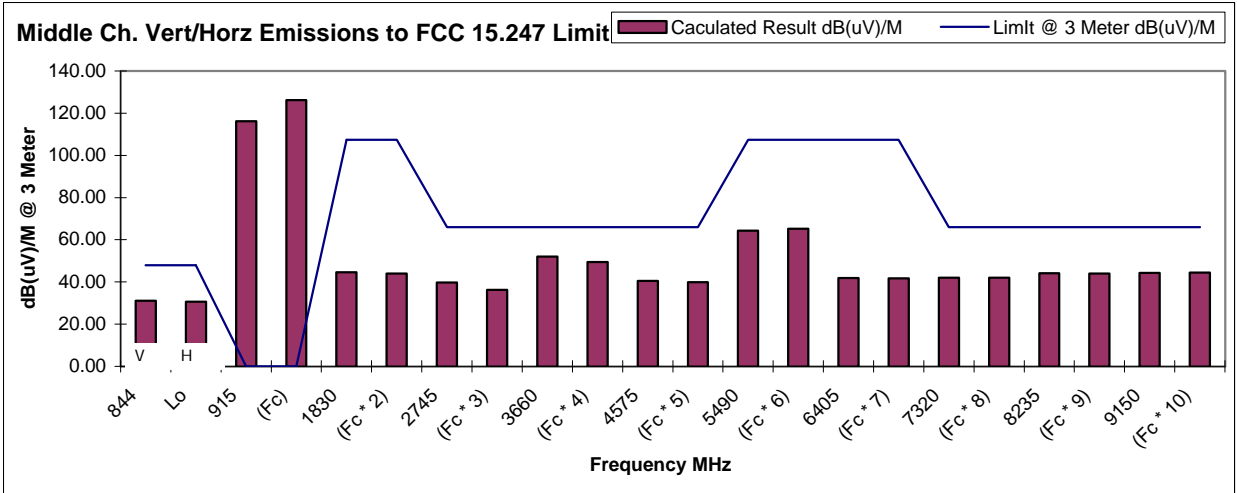
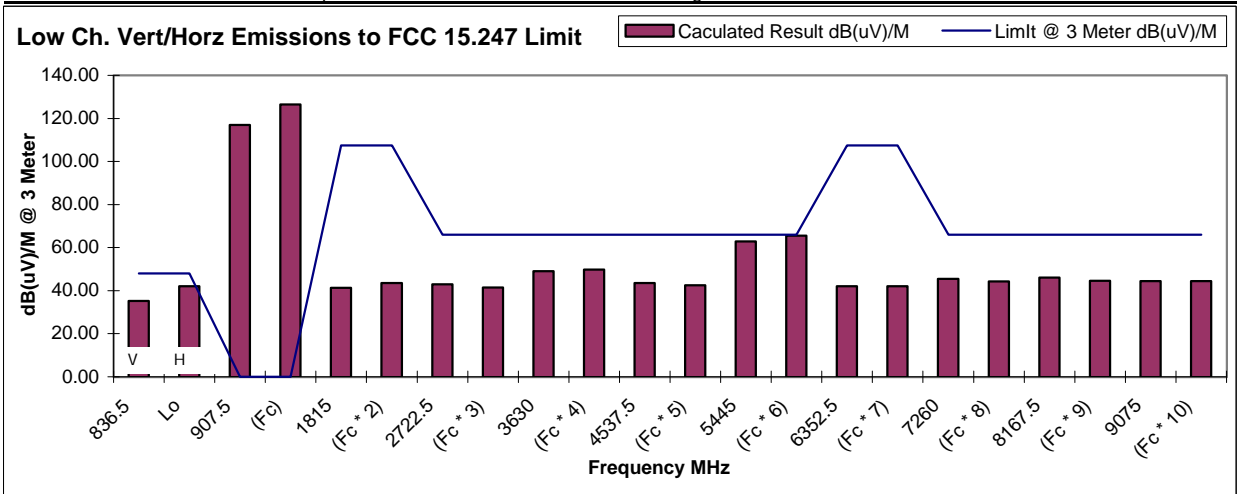
Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit HORIZONTAL (Y axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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

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	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 11		907.5 MHz						
836.5	Vert		3.10	22.20				
Lo	Hor		3.10	22.20				
907.5	Vert	90.35	3.40	23.20				
(Fc)	Hor	99.81	3.40	23.20				
1815	Vert	51.69	4.54	27.76	33.50	50.49	74	-23.5
(Fc * 2)	Hor	53.47	4.54	27.76	33.50	52.27	74	-21.7
2722.5	Vert	52.17	4.25	29.52	33.58	52.36	74	-21.6
(Fc * 3)	Hor	51.61	4.25	29.52	33.58	51.80	74	-22.2
3630	Vert	51.84	4.18	31.58	33.40	54.20	74	-19.8
(Fc * 4)	Hor	51.36	4.18	31.58	33.40	53.72	74	-20.3
4537.5	Vert	47.94	5.16	32.95	33.08	52.97	74	-21.0
(Fc * 5)	Hor	47.19	5.16	32.95	33.08	52.22	74	-21.8
5445	Vert	63.97	5.59	34.49	32.44	71.61	74	-2.4
(Fc * 6)	Hor	66.08	5.59	34.49	32.44	73.72	74	-0.3
6352.5	Vert	44.32	6.45	34.88	31.80	53.85	74	-20.2
(Fc * 7)	Hor	44.34	6.45	34.88	31.80	53.87	74	-20.1
7260	Vert	45.11	6.50	36.50	32.30	55.81	74	-18.2
(Fc * 8)	Hor	44.37	6.50	36.50	32.30	55.07	74	-18.9
8167.5	Vert	44.63	7.00	38.36	33.06	56.93	74	-17.1
(Fc * 9)	Hor	44.52	7.00	38.36	33.06	56.82	74	-17.2
9075	Vert	44.67	6.86	38.54	33.22	56.85	74	-17.2
(Fc * 10)	Hor	43.84	6.86	38.54	33.22	56.02	74	-18.0

Middle Channel 26		915 MHz						
844	Vert		3.10	22.35				
Lo	Hor		3.10	22.35				
915	Vert	89.58	3.40	23.25				
(Fc)	Hor	99.50	3.40	23.25				
1830	Vert	54.22	4.57	27.92	33.50	53.21	74	-20.8
(Fc * 2)	Hor	52.97	4.57	27.92	33.50	51.96	74	-22.0
2745	Vert	48.83	4.32	29.65	33.60	49.20	74	-24.8
(Fc * 3)	Hor	47.30	4.32	29.65	33.60	47.67	74	-26.3
3660	Vert	53.64	4.21	31.72	33.38	56.19	74	-17.8
(Fc * 4)	Hor	50.82	4.21	31.72	33.38	53.37	74	-20.6
4575	Vert	46.06	4.91	33.18	33.04	51.11	74	-22.9
(Fc * 5)	Hor	44.86	4.91	33.18	33.04	49.91	74	-24.1
5490	Vert	64.74	5.36	34.50	32.40	72.20	74	-1.8
(Fc * 6)	Hor	65.98	5.36	34.50	32.40	73.44	74	-0.6
6405	Vert	44.70	6.14	34.92	31.72	54.04	74	-20.0
(Fc * 7)	Hor	44.21	6.14	34.92	31.72	53.55	74	-20.5
7320	Vert	43.39	6.23	36.46	32.60	53.48	74	-20.5
(Fc * 8)	Hor	43.78	6.23	36.46	32.60	53.87	74	-20.1
8235	Vert	44.06	6.58	38.20	33.09	55.75	74	-18.3
(Fc * 9)	Hor	44.08	6.58	38.20	33.09	55.77	74	-18.2
9150	Vert	44.39	7.06	38.42	33.26	56.61	74	-17.4
(Fc * 10)	Hor	44.15	7.06	38.42	33.26	56.37	74	-17.6

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit HORIZONTAL (Y axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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

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	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)
High Channel 41		922.5	MHz					
851.5	Vert		3.15	22.40				
Lo	Hor		3.15	22.40				
922.5	Vert	90.91	3.40	23.20				
(Fc)	Hor	100.82	3.40	23.20				
1845	Vert	55.80	4.46	27.92	33.45	54.73	74	-19.3
(Fc * 2)	Hor	50.98	4.46	27.92	33.45	49.91	74	-24.1
2767.5	Vert	50.36	4.27	29.72	33.61	50.74	74	-23.3
(Fc * 3)	Hor	49.67	4.27	29.72	33.61	50.05	74	-24.0
3690	Vert	50.22	4.19	31.86	33.34	52.93	74	-21.1
(Fc * 4)	Hor	48.74	4.19	31.86	33.34	51.45	74	-22.6
4612.5	Vert	44.52	4.97	33.28	33.00	49.77	74	-24.2
(Fc * 5)	Hor	45.40	4.97	33.28	33.00	50.65	74	-23.4
5535	Vert	63.41	5.54	34.51	32.38	71.08	74	-2.9
(Fc * 6)	Hor	62.72	5.54	34.51	32.38	70.39	74	-3.6
6457.5	Vert	44.88	6.65	34.98	31.63	54.88	74	-19.1
(Fc * 7)	Hor	44.57	6.65	34.98	31.63	54.57	74	-19.4
7380	Vert	43.92	6.72	36.38	32.92	54.10	74	-19.9
(Fc * 8)	Hor	43.84	6.72	36.38	32.92	54.02	74	-20.0
8302.5	Vert	45.92	6.86	38.08	33.13	57.73	74	-16.3
(Fc * 9)	Hor	44.81	6.86	38.08	33.13	56.62	74	-17.4
9225	Vert	44.19	7.19	38.30	33.30	56.38	74	-17.6
(Fc * 10)	Hor	44.06	7.19	38.30	33.30	56.25	74	-17.8

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Product: Intermec Falcon Transmitter IC Change

Set Up: RM70 radio module, RT1170 unit HORIZONTAL (Y axis)

Test Date (mm/dd/yy): 06/22/04

Measurement System Calibration Date: 06/20/03

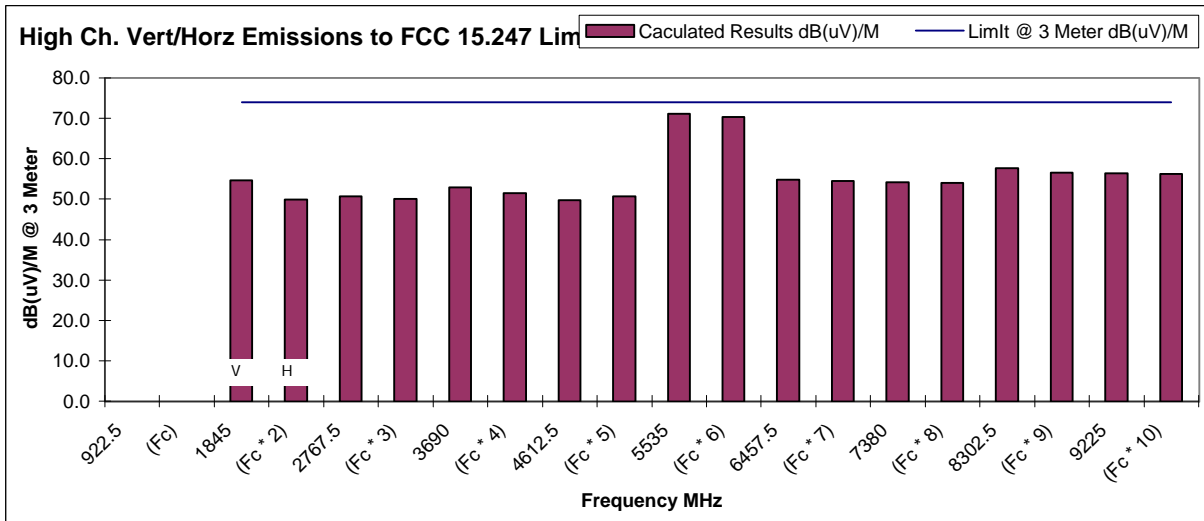
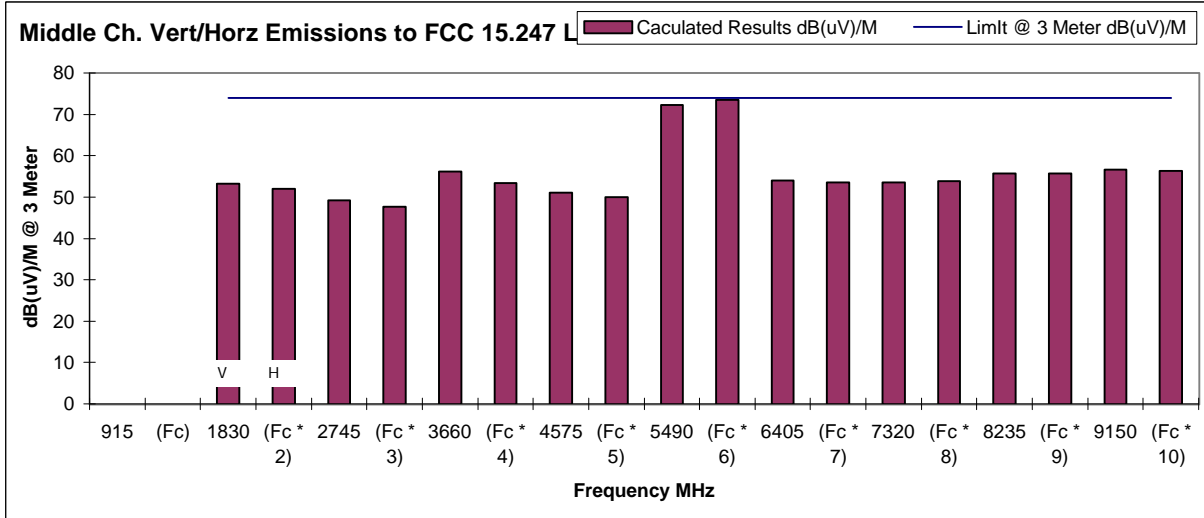
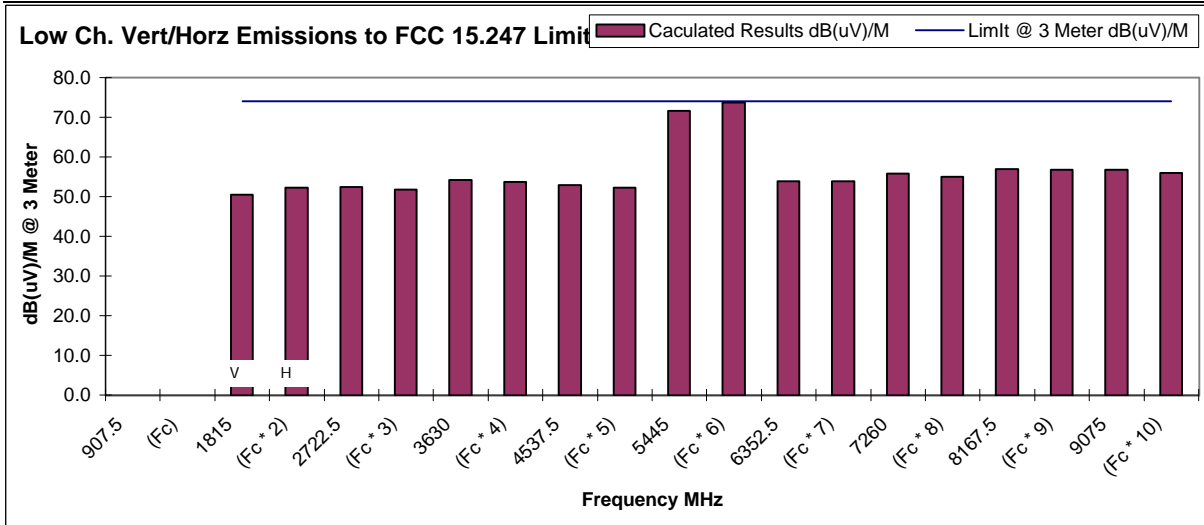
Intermec Technologies Corporation

EMC Test Laboratory

Cedar Rapids, IA

Standard: FCC 15.247

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



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit SIDEWAYS (Z axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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 duty cycle correction of 12dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 11		907.500	MHz					
836.5	Vert	13.64	3.10	22.20		38.94	48	-9.1
Lo	Hor	7.32	3.10	22.20		32.62	48	-15.4
907.5	Vert	99.90	3.40	23.20		126.50		
(Fc)	Hor	90.05	3.40	23.20		116.65		
1815	Vert	43.39	4.54	27.76	33.50	42.19	107	-64.6
(Fc * 2)	Hor	44.76	4.54	27.76	33.50	43.56	107	-63.3
2722.5	Vert	41.19	4.25	29.52	33.58	41.38	66	-24.6
(Fc * 3)	Hor	36.30	4.25	29.52	33.58	36.49	66	-29.5
3630	Vert	41.63	4.18	31.58	33.40	43.99	66	-22.0
(Fc * 4)	Hor	49.75	4.18	31.58	33.40	52.11	66	-13.9
4537.5	Vert	37.00	5.16	32.95	33.08	42.03	66	-24.0
(Fc * 5)	Hor	37.95	5.16	32.95	33.08	42.98	66	-23.0
5445	Vert	57.42	5.59	34.49	32.44	65.06	66	-0.9
(Fc * 6)	Hor	55.18	5.59	34.49	32.44	62.82	66	-3.2
6352.5	Vert	32.50	6.45	34.88	31.80	42.03	107	-64.8
(Fc * 7)	Hor	32.58	6.45	34.88	31.80	42.11	107	-64.7
7260	Vert	34.80	6.50	36.50	32.30	45.50	66	-20.5
(Fc * 8)	Hor	33.53	6.50	36.50	32.30	44.23	66	-21.8
8167.5	Vert	33.84	7.00	38.36	33.06	46.14	66	-19.9
(Fc * 9)	Hor	32.34	7.00	38.36	33.06	44.64	66	-21.4
9075	Vert	32.25	6.86	38.54	33.22	44.43	66	-21.6
(Fc * 10)	Hor	32.26	6.86	38.54	33.22	44.44	66	-21.6

Middle Channel 26		915.000	MHz					
844	Vert	4.59	3.10	22.35		30.04	48	-18.0
Lo	Hor	4.62	3.10	22.35		30.07	48	-17.9
915	Vert	99.69	3.40	23.25		126.34		
(Fc)	Hor	89.25	3.40	23.25		115.90		
1830	Vert	47.04	4.57	27.92	33.50	46.03	107	-60.8
(Fc * 2)	Hor	45.93	4.57	27.92	33.50	44.92	107	-61.9
2745	Vert	36.51	4.32	29.65	33.60	36.88	66	-29.1
(Fc * 3)	Hor	39.15	4.32	29.65	33.60	39.52	66	-26.5
3660	Vert	43.62	4.21	31.72	33.38	46.17	66	-19.8
(Fc * 4)	Hor	48.71	4.21	31.72	33.38	51.26	66	-14.7
4575	Vert	35.12	4.91	33.18	33.04	40.17	66	-25.8
(Fc * 5)	Hor	35.49	4.91	33.18	33.04	40.54	66	-25.5
5490	Vert	58.83	5.36	34.50	32.40	66.29	107	-40.5
(Fc * 6)	Hor	55.38	5.36	34.50	32.40	62.84	107	-44.0
6405	Vert	32.46	6.14	34.92	31.72	41.80	107	-65.0
(Fc * 7)	Hor	32.36	6.14	34.92	31.72	41.70	107	-65.1
7320	Vert	31.98	6.23	36.46	32.60	42.07	66	-23.9
(Fc * 8)	Hor	31.92	6.23	36.46	32.60	42.01	66	-24.0
8235	Vert	32.48	6.58	38.20	33.09	44.17	66	-21.8
(Fc * 9)	Hor	32.24	6.58	38.20	33.09	43.93	66	-22.1
9150	Vert	32.01	7.06	38.42	33.26	44.23	66	-21.8
(Fc * 10)	Hor	32.18	7.06	38.42	33.26	44.40	66	-21.6

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit SIDEWAYS (Z axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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 duty cycle correction of 12dB	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 41		922.500	MHz					
851.5	Vert	12.35	3.15	22.40		37.90	48	-10.1
Lo	Hor	5.51	3.15	22.40		31.06	48	-16.9
922.5	Vert	100.23	3.40	23.20		126.83		
(Fc)	Hor	87.71	3.40	23.20		114.31		
1845	Vert	47.86	4.46	27.92	33.45	46.79	107	-60.0
(Fc * 2)	Hor	45.70	4.46	27.92	33.45	44.63	107	-62.2
2767.5	Vert	33.96	4.27	29.72	33.61	34.34	66	-31.7
(Fc * 3)	Hor	37.78	4.27	29.72	33.61	38.16	66	-27.8
3690	Vert	38.39	4.19	31.86	33.34	41.10	66	-24.9
(Fc * 4)	Hor	46.23	4.19	31.86	33.34	48.94	66	-17.1
4612.5	Vert	32.73	4.97	33.28	33.00	37.98	66	-28.0
(Fc * 5)	Hor	34.08	4.97	33.28	33.00	39.33	66	-26.7
5535	Vert	54.42	5.54	34.51	32.38	62.09	107	-44.7
(Fc * 6)	Hor	50.93	5.54	34.51	32.38	58.60	107	-48.2
6457.5	Vert	33.04	6.65	34.98	31.63	43.04	107	-63.8
(Fc * 7)	Hor	33.08	6.65	34.98	31.63	43.08	107	-63.8
7380	Vert	32.21	6.72	36.38	32.92	42.39	66	-23.6
(Fc * 8)	Hor	32.25	6.72	36.38	32.92	42.43	66	-23.6
8302.5	Vert	34.99	6.86	38.08	33.13	46.80	66	-19.2
(Fc * 9)	Hor	34.14	6.86	38.08	33.13	45.95	66	-20.1
9225	Vert	32.31	7.19	38.30	33.30	44.50	66	-21.5
(Fc * 10)	Hor	32.33	7.19	38.30	33.30	44.52	66	-21.5

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit SIDEWAYS (Z axis)

Cedar Rapids, IA

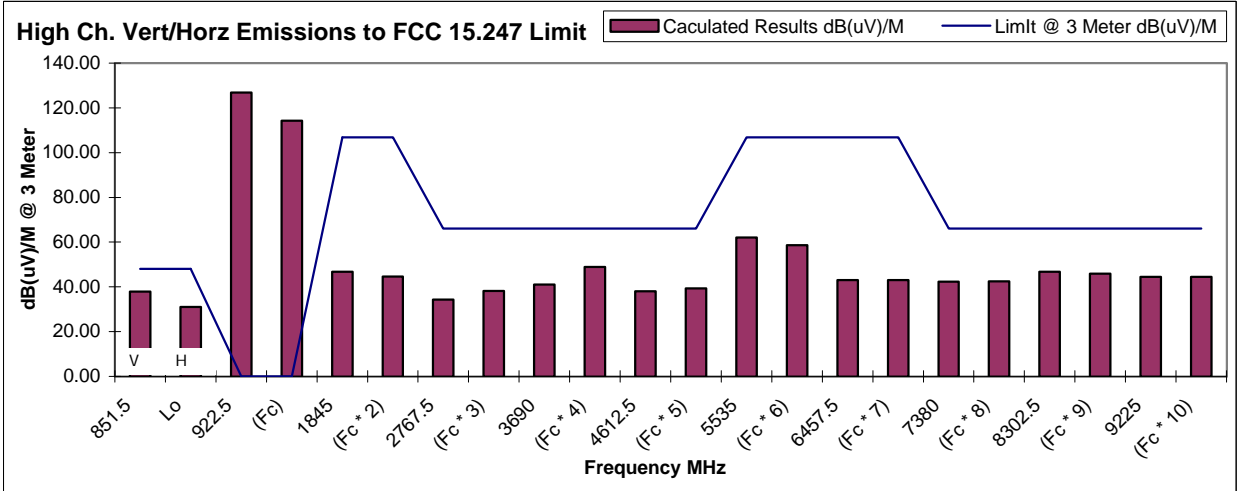
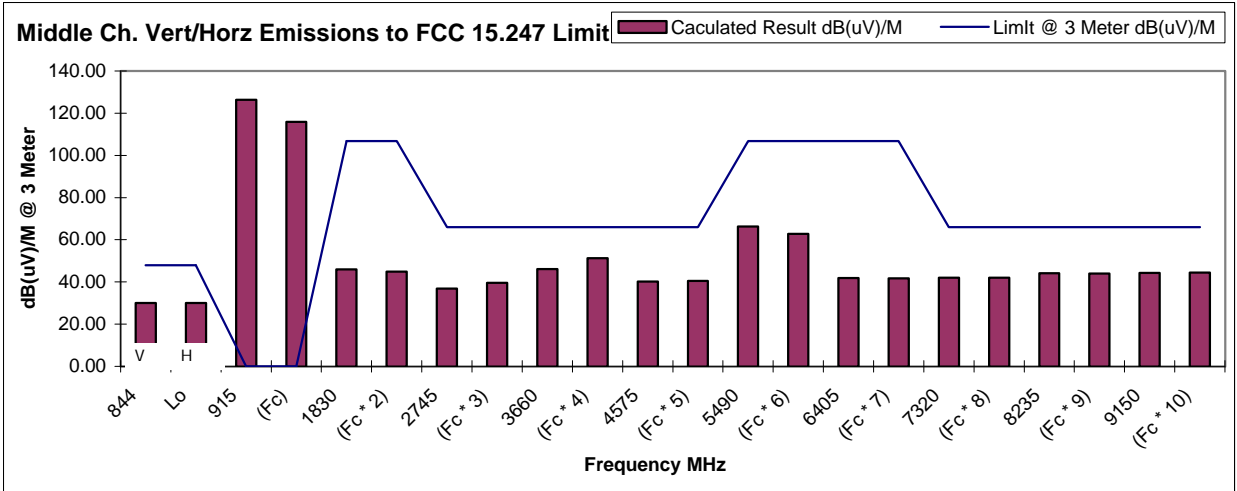
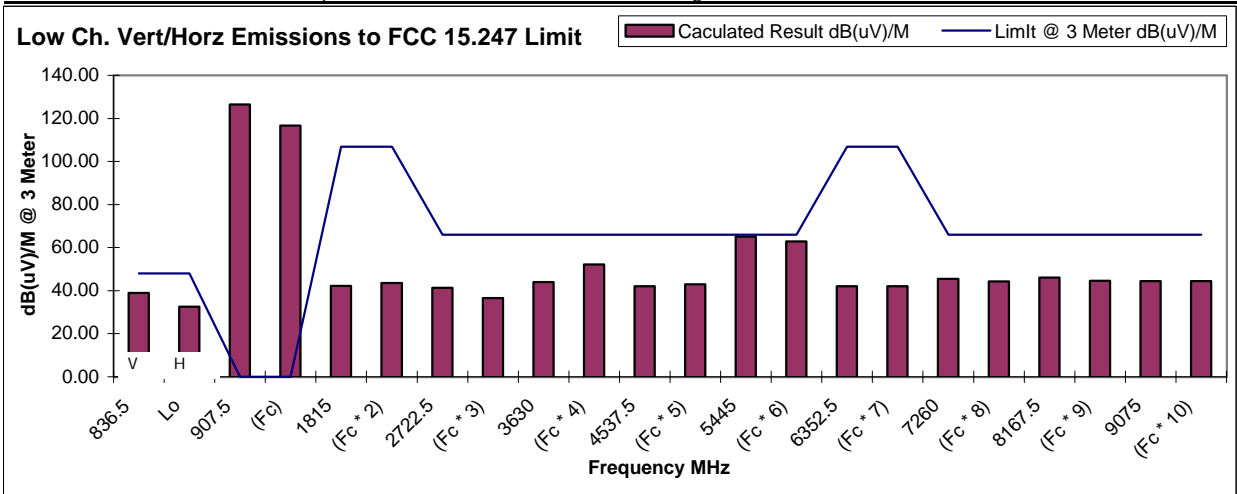
Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit SIDEWAYS (Z axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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

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	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 11		907.5	MHz					
836.5	Vert		3.10	22.20				
Lo	Hor		3.10	22.20				
907.5	Vert	99.90	3.40	23.20				
(Fc)	Hor	90.05	3.40	23.20				
1815	Vert	52.22	4.54	27.76	33.50	51.02	74	-23.0
(Fc * 2)	Hor	53.60	4.54	27.76	33.50	52.40	74	-21.6
2722.5	Vert	55.06	4.25	29.52	33.58	55.25	74	-18.8
(Fc * 3)	Hor	46.54	4.25	29.52	33.58	46.73	74	-27.3
3630	Vert	47.25	4.18	31.58	33.40	49.61	74	-24.4
(Fc * 4)	Hor	54.54	4.18	31.58	33.40	56.90	74	-17.1
4537.5	Vert	46.65	5.16	32.95	33.08	51.68	74	-22.3
(Fc * 5)	Hor	47.42	5.16	32.95	33.08	52.45	74	-21.6
5445	Vert	65.62	5.59	34.49	32.44	73.26	74	-0.7
(Fc * 6)	Hor	63.79	5.59	34.49	32.44	71.43	74	-2.6
6352.5	Vert	44.32	6.45	34.88	31.80	53.85	74	-20.2
(Fc * 7)	Hor	44.34	6.45	34.88	31.80	53.87	74	-20.1
7260	Vert	45.11	6.50	36.50	32.30	55.81	74	-18.2
(Fc * 8)	Hor	44.37	6.50	36.50	32.30	55.07	74	-18.9
8167.5	Vert	44.63	7.00	38.36	33.06	56.93	74	-17.1
(Fc * 9)	Hor	44.52	7.00	38.36	33.06	56.82	74	-17.2
9075	Vert	44.67	6.86	38.54	33.22	56.85	74	-17.2
(Fc * 10)	Hor	43.84	6.86	38.54	33.22	56.02	74	-18.0

Middle Channel 26		915	MHz					
844	Vert		3.10	22.35				
Lo	Hor		3.10	22.35				
915	Vert	99.69	3.40	23.25				
(Fc)	Hor	89.25	3.40	23.25				
1830	Vert	54.95	4.57	27.92	33.50	53.94	74	-20.1
(Fc * 2)	Hor	53.67	4.57	27.92	33.50	52.66	74	-21.3
2745	Vert	47.10	4.32	29.65	33.60	47.47	74	-26.5
(Fc * 3)	Hor	49.78	4.32	29.65	33.60	50.15	74	-23.9
3660	Vert	48.40	4.21	31.72	33.38	50.95	74	-23.1
(Fc * 4)	Hor	52.53	4.21	31.72	33.38	55.08	74	-18.9
4575	Vert	44.73	4.91	33.18	33.04	49.78	74	-24.2
(Fc * 5)	Hor	45.84	4.91	33.18	33.04	50.89	74	-23.1
5490	Vert	66.29	5.36	34.50	32.40	73.75	74	-0.3
(Fc * 6)	Hor	63.67	5.36	34.50	32.40	71.13	74	-2.9
6405	Vert	44.46	6.14	34.92	31.72	53.80	74	-20.2
(Fc * 7)	Hor	44.47	6.14	34.92	31.72	53.81	74	-20.2
7320	Vert	43.92	6.23	36.46	32.60	54.01	74	-20.0
(Fc * 8)	Hor	44.05	6.23	36.46	32.60	54.14	74	-19.9
8235	Vert	44.55	6.58	38.20	33.09	56.24	74	-17.8
(Fc * 9)	Hor	44.30	6.58	38.20	33.09	55.99	74	-18.0
9150	Vert	43.55	7.06	38.42	33.26	55.77	74	-18.2
(Fc * 10)	Hor	44.06	7.06	38.42	33.26	56.28	74	-17.7

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

Intermec Technologies Corporation

Product: Intermec Falcon Transmitter IC Change

EMC Test Laboratory

Set Up: RM70 radio module, RT1170 unit SIDEWAYS (Z axis)

Cedar Rapids, IA

Test Date (mm/dd/yy): 06/22/04

Standard: FCC 15.247

Measurement System Calibration Date: 06/20/03

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

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	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)
High Channel 41		922.5	MHz					
851.5	Vert		3.15	22.40				
Lo	Hor		3.15	22.40				
922.5	Vert	100.23	3.40	23.20				
(Fc)	Hor	87.71	3.40	23.20				
1845	Vert	55.64	4.46	27.92	33.45	54.57	74	-19.4
(Fc * 2)	Hor	53.70	4.46	27.92	33.45	52.63	74	-21.4
2767.5	Vert	45.37	4.27	29.72	33.61	45.75	74	-28.3
(Fc * 3)	Hor	48.29	4.27	29.72	33.61	48.67	74	-25.3
3690	Vert	45.57	4.19	31.86	33.34	48.28	74	-25.7
(Fc * 4)	Hor	51.18	4.19	31.86	33.34	53.89	74	-20.1
4612.5	Vert	44.80	4.97	33.28	33.00	50.05	74	-24.0
(Fc * 5)	Hor	44.43	4.97	33.28	33.00	49.68	74	-24.3
5535	Vert	64.22	5.54	34.51	32.38	71.89	74	-2.1
(Fc * 6)	Hor	60.57	5.54	34.51	32.38	68.24	74	-5.8
6457.5	Vert	44.88	6.65	34.98	31.63	54.88	74	-19.1
(Fc * 7)	Hor	44.57	6.65	34.98	31.63	54.57	74	-19.4
7380	Vert	43.92	6.72	36.38	32.92	54.10	74	-19.9
(Fc * 8)	Hor	43.84	6.72	36.38	32.92	54.02	74	-20.0
8302.5	Vert	45.92	6.86	38.08	33.13	57.73	74	-16.3
(Fc * 9)	Hor	44.81	6.86	38.08	33.13	56.62	74	-17.4
9225	Vert	44.19	7.19	38.30	33.30	56.38	74	-17.6
(Fc * 10)	Hor	44.06	7.19	38.30	33.30	56.25	74	-17.8

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: EHARM915L

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

