

MEASUREMENT/TECHNICAL REPORT



**Intermec Technologies Corporation
EasyLAN® Wireless CF Radio
2.4 GHz Spread Spectrum Transmitter**

REPORT NO: 040804-1

DATE: Aug. 8, 2004

Appendix G

TX RADIATED EMISSIONS DATA

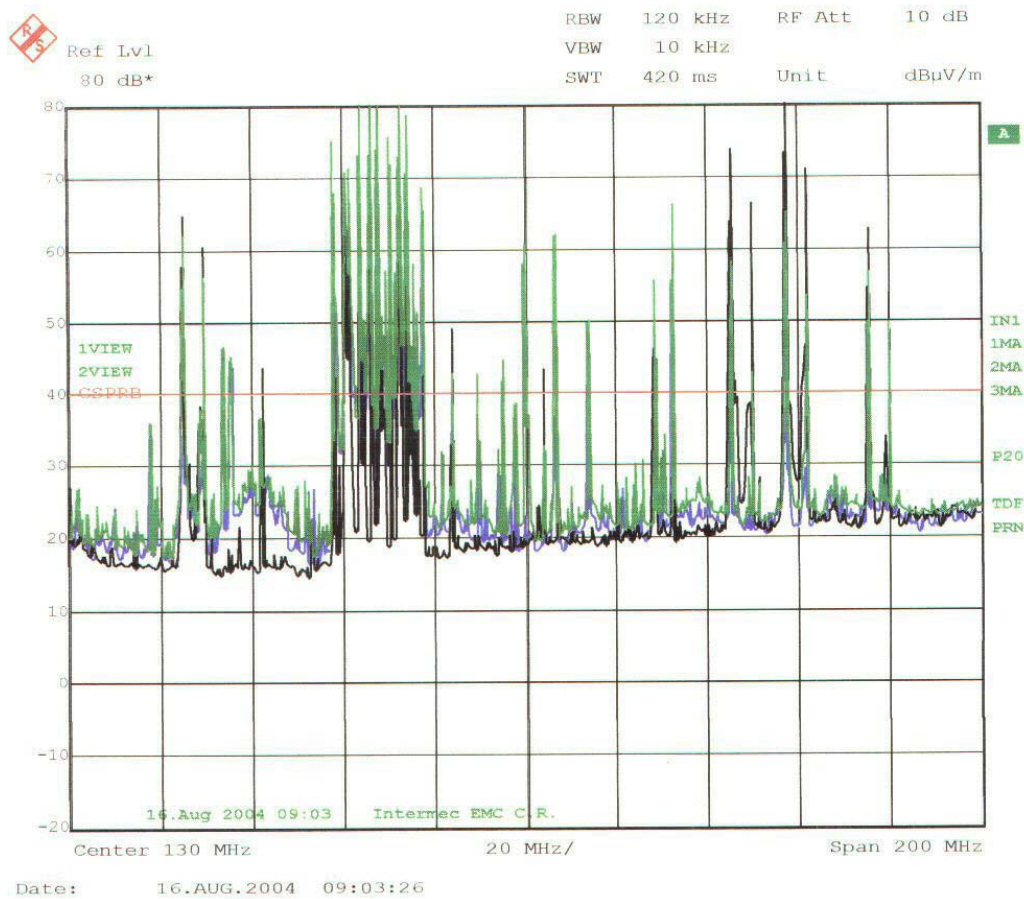
Quasi-peak, average and peak radiated spurious emissions.

Configurations

Pages 2-5 Peak emission scans below 1 GHz.
(no transmitter emissions found)

Pages 6-11 Dipole antenna test data.

Pages 12-17 Dual Panel antenna test data.



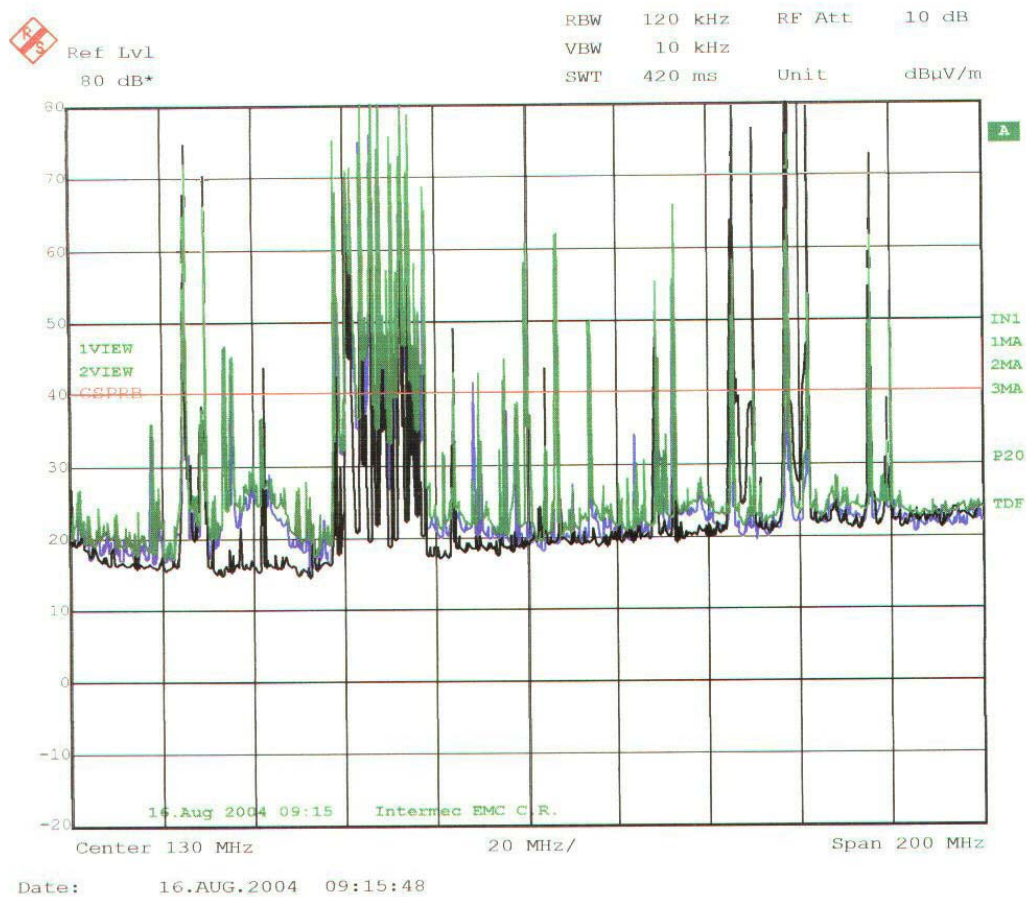
V

TX CH 6

V

TX Ch 6

Blu = TX
 Grn = Stdbby
 Blk = Amb.



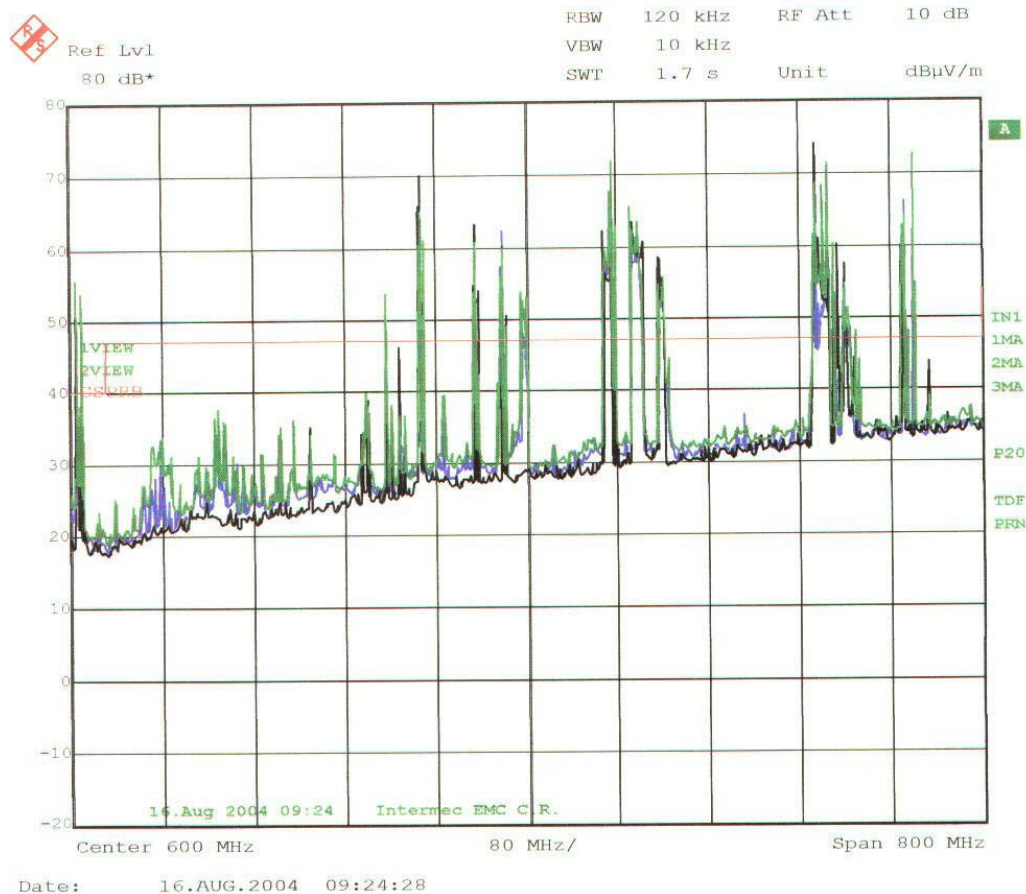
H

TX CH 6

H

TX Ch 6

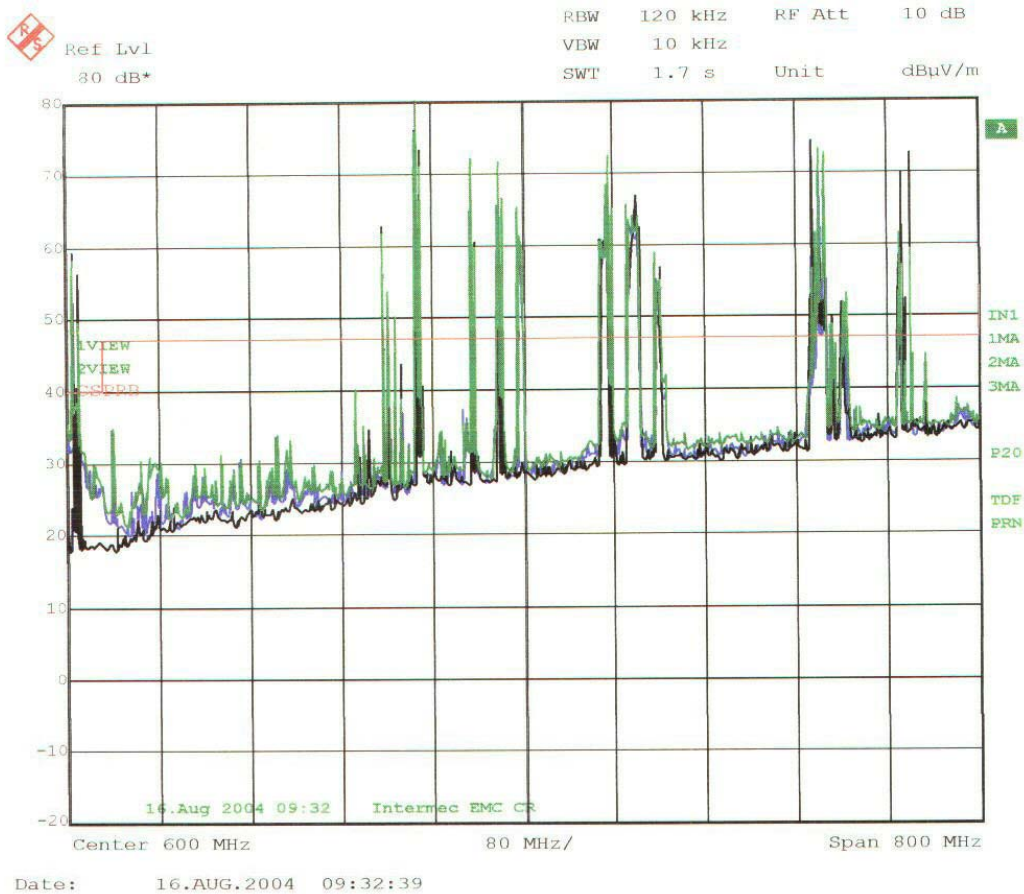
Blu = TX
 Grn = Stdbby
 Blk = Amb.



✓
 TX CH 6

V
 TX Ch 6

Blu = TX
 Grn = Stdbby
 Blk = Amb.



H
 TX CH 6
 H
 TX ch 6
 Blu = TX
 Grn = Stdbby
 Blk = Amb.

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 063363 5 dBi Dipole

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

AVG Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 1 2412.000 MHz								
2412.000	Vert	81.31	2.70	28.62		112.63	113	0.00
(Fc)	Hor	65.32	2.70	28.62		96.64	113	-15.99
4824.000	Vert	36.88	4.80	33.54	32.86	42.36	64	-21.64
(Fc * 2)	Hor	36.26	4.80	33.54	32.86	41.74	64	-22.26
7236.000	Vert	32.20	6.40	36.68	32.16	43.12	93	-49.88
(Fc * 3)	Hor	32.23	6.40	36.68	32.16	43.15	93	-49.85
9648.000	Vert	52.84	7.10	38.18	33.40	64.72	93	-28.28
(Fc * 4)	Hor	48.42	7.10	38.18	33.40	60.30	93	-32.70
12060.000	Vert	32.37	8.00	39.10	32.40	47.07	64	-16.93
(Fc * 5)	Hor	32.33	8.00	39.10	32.40	47.03	64	-16.97
14472.000	Vert	31.62	8.80	37.08	30.56	46.94	93	-46.06
(Fc * 6)	Hor	31.62	8.80	37.08	30.56	46.94	93	-46.06
16884.000	Vert	30.88	9.80	37.22	31.26	46.64	93	-46.36
(Fc * 7)	Hor	30.98	9.80	37.22	31.26	46.74	93	-46.26
19296.000	Vert	31.53	10.70	40.25	30.70	51.78	64	-12.22
(Fc * 8)	Hor	32.37	10.70	40.25	30.70	52.62	64	-11.38
21708.000	Vert	31.66	11.80	40.33	29.28	54.51	93	-38.49
(Fc * 9)	Hor	31.56	11.80	40.33	29.28	54.41	93	-38.59
24120.000	Vert	31.02	13.00	40.41	29.40	55.03	93	-37.97
(Fc * 10)	Hor	30.86	13.00	40.41	29.40	54.87	93	-38.13

Middle Channel 6 2437.000 MHz								
2437.000	Vert	81.17	2.70	28.69		112.56	113	-0.07
(Fc)	Hor	65.09	2.70	28.69		96.48	113	-16.15
4874.000	Vert	37.21	4.85	33.76	32.78	43.04	64	-20.96
(Fc * 2)	Hor	37.27	4.85	33.76	32.78	43.10	64	-20.90
7311.000	Vert	32.11	6.30	36.98	32.60	42.79	64	-21.21
(Fc * 3)	Hor	32.06	6.30	36.98	32.60	42.74	64	-21.26
9748.000	Vert	51.23	7.30	38.31	33.40	63.44	93	-29.56
(Fc * 4)	Hor	48.77	7.30	38.31	33.40	60.98	93	-32.02
12185.000	Vert	32.15	7.80	39.02	32.16	46.81	64	-17.19
(Fc * 5)	Hor	32.02	7.80	39.02	32.16	46.68	64	-17.32
14622.000	Vert	31.72	8.65	37.08	30.75	46.70	93	-46.30
(Fc * 6)	Hor	31.92	8.65	37.08	30.75	46.90	93	-46.10
17059.000	Vert	30.51	9.90	37.23	31.00	46.64	93	-46.36
(Fc * 7)	Hor	30.64	9.90	37.23	31.00	46.77	93	-46.23
19496.000	Vert	31.35	10.70	40.25	30.71	51.59	64	-12.41
(Fc * 8)	Hor	32.18	10.70	40.25	30.71	52.42	64	-11.58
21933.000	Vert	32.38	11.80	40.34	29.21	55.31	93	-37.69
(Fc * 9)	Hor	32.99	11.80	40.34	29.21	55.92	93	-37.08
24370.000	Vert	30.16	13.00	40.43	30.12	53.47	93	-39.53
(Fc * 10)	Hor	29.97	13.00	40.43	30.12	53.28	93	-39.72

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 063363 5 dBi Dipole

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

AVG Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 11	2462.000	MHz						
2462.000	Vert	80.72	2.70	28.77		112.19	113	-0.44
(Fc)	Hor	64.42	2.70	28.77		95.89	113	-16.74
4924.000	Vert	38.42	4.90	33.90	32.74	44.48	64	-19.52
(Fc * 2)	Hor	36.52	4.90	33.90	32.74	42.58	64	-21.42
7386.000	Vert	32.13	6.25	37.26	33.11	42.53	64	-21.47
(Fc * 3)	Hor	31.96	6.25	37.26	33.11	42.36	64	-21.64
9848.000	Vert	53.96	7.45	38.44	33.40	66.45	93	-26.55
(Fc * 4)	Hor	50.45	7.45	38.44	33.40	62.94	93	-30.06
12310.000	Vert	31.50	8.00	38.94	31.92	46.52	64	-17.48
(Fc * 5)	Hor	31.37	8.00	38.94	31.92	46.39	64	-17.61
14772.000	Vert	32.48	8.85	37.09	31.00	47.42	93	-45.58
(Fc * 6)	Hor	32.13	8.85	37.09	31.00	47.07	93	-45.93
17234.000	Vert	30.84	10.00	37.24	31.25	46.83	93	-46.17
(Fc * 7)	Hor	30.99	10.00	37.24	31.25	46.98	93	-46.02
19696.000	Vert	31.01	10.70	40.26	30.84	51.13	93	-41.87
(Fc * 8)	Hor	31.61	10.70	40.26	30.84	51.73	64	-12.27
22158.000	Vert	31.83	11.80	40.34	29.70	54.27	64	-9.73
(Fc * 9)	Hor	31.70	11.80	40.34	29.70	54.14	64	-9.86
24620.000	Vert	30.03	13.00	40.44	30.78	52.69	93	-40.31
(Fc * 10)	Hor	29.97	13.00	40.44	30.78	52.63	93	-40.37

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 063363 5 dBi Dipole

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

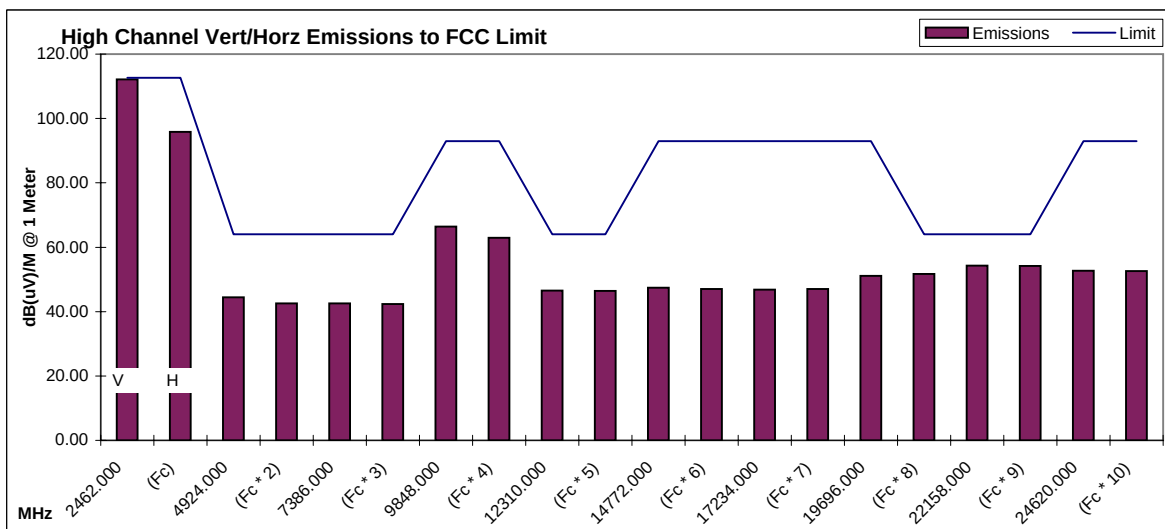
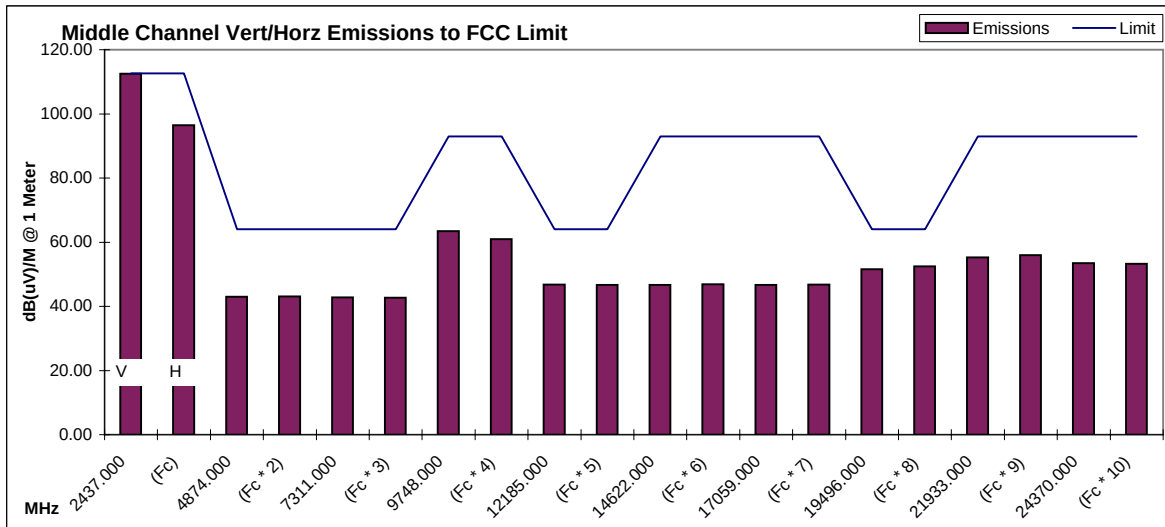
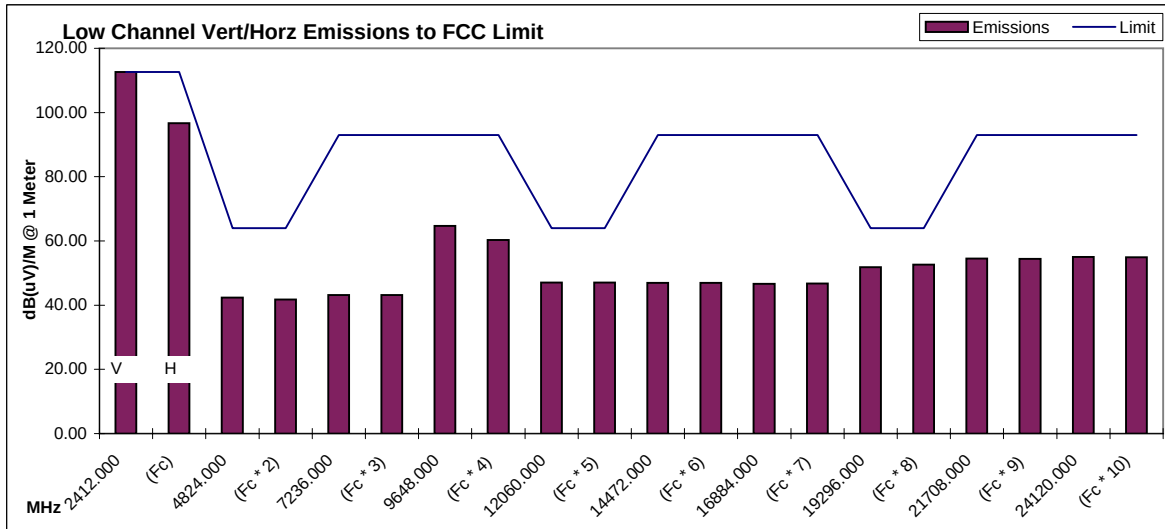
Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

AVG Detector 1 MHz BW



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 063363 5 dBi Dipole

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

PK Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 1	2412.000	MHz						
2412.000	Vert	90.50	2.70	28.62		121.82	122.06	-0.24
(Fc)	Hor	72.52	2.70	28.62		103.84	122.06	-18.22
4824.000	Vert	47.18	4.80	33.54	32.86	52.66	84	-31.34
(Fc * 2)	Hor	45.14	4.80	33.54	32.86	50.62	84	-33.38
7236.000	Vert	43.85	6.40	36.68	32.16	54.77	84	-29.23
(Fc * 3)	Hor	44.45	6.40	36.68	32.16	55.37	84	-28.63
9648.000	Vert	54.48	7.10	38.18	33.40	66.36	84	-17.64
(Fc * 4)	Hor	51.08	7.10	38.18	33.40	62.96	84	-21.04
12060.000	Vert	44.95	8.00	39.10	32.40	59.65	84	-24.35
(Fc * 5)	Hor	43.41	8.00	39.10	32.40	58.11	84	-25.89
14472.000	Vert	42.99	8.80	37.08	30.56	58.31	84	-25.69
(Fc * 6)	Hor	43.19	8.80	37.08	30.56	58.51	84	-25.49
16884.000	Vert	42.67	9.80	37.22	31.26	58.43	84	-25.57
(Fc * 7)	Hor	42.69	9.80	37.22	31.26	58.45	84	-25.55
19296.000	Vert	43.63	10.70	40.25	30.70	63.88	84	-20.12
(Fc * 8)	Hor	43.13	10.70	40.25	30.70	63.38	84	-20.62
21708.000	Vert	44.00	11.80	40.33	29.28	66.85	84	-17.15
(Fc * 9)	Hor	43.12	11.80	40.33	29.28	65.97	84	-18.03
24120.000	Vert	42.46	13.00	40.41	29.40	66.47	84	-17.53
(Fc * 10)	Hor	42.90	13.00	40.41	29.40	66.91	84	-17.09

Middle Channel 6	2437	MHz						
2437.000	Vert	90.67	2.70	28.69		122.06	122.06	
(Fc)	Hor	72.11	2.70	28.69		103.50	122.06	-18.56
4874.000	Vert	45.29	4.85	33.76	32.78	51.12	84	-32.88
(Fc * 2)	Hor	45.09	4.85	33.76	32.78	50.92	84	-33.08
7311.000	Vert	43.78	6.30	36.98	32.60	54.46	84	-29.54
(Fc * 3)	Hor	43.93	6.30	36.98	32.60	54.61	84	-29.39
9748.000	Vert	53.39	7.30	38.31	33.40	65.60	84	-18.40
(Fc * 4)	Hor	50.68	7.30	38.31	33.40	62.89	84	-21.11
12185.000	Vert	43.57	7.80	39.02	32.16	58.23	84	-25.77
(Fc * 5)	Hor	43.26	7.80	39.02	32.16	57.92	84	-26.08
14622.000	Vert	43.58	8.65	37.08	30.75	58.56	84	-25.44
(Fc * 6)	Hor	43.81	8.65	37.08	30.75	58.79	84	-25.21
17059.000	Vert	42.81	9.90	37.23	31.00	58.94	84	-25.06
(Fc * 7)	Hor	42.67	9.90	37.23	31.00	58.80	84	-25.20
19496.000	Vert	43.63	10.70	40.25	30.71	63.87	84	-20.13
(Fc * 8)	Hor	43.00	10.70	40.25	30.71	63.24	84	-20.76
21933.000	Vert	44.80	11.80	40.34	29.21	67.73	84	-16.27
(Fc * 9)	Hor	44.52	11.80	40.34	29.21	67.45	84	-16.55
24370.000	Vert	41.76	13.00	40.43	30.12	65.07	84	-18.93
(Fc * 10)	Hor	41.72	13.00	40.43	30.12	65.03	84	-18.97

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 063363 5 dBi Dipole

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

PK Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 11	2462	MHz						
2462.000	Vert	90.16	2.70	28.77		121.63	122.06	-0.43
(Fc)	Hor	71.89	2.70	28.77		103.36	122.06	-18.70
4924.000	Vert	47.36	4.90	33.90	32.74	53.42	84	-30.58
(Fc * 2)	Hor	44.44	4.90	33.90	32.74	50.50	84	-33.50
7386.000	Vert	44.09	6.25	37.26	33.11	54.49	84	-29.51
(Fc * 3)	Hor	43.81	6.25	37.26	33.11	54.21	84	-29.79
9848.000	Vert	55.57	7.45	38.44	33.40	68.06	84	-15.94
(Fc * 4)	Hor	52.46	7.45	38.44	33.40	64.95	84	-19.05
12310.000	Vert	43.13	8.00	38.94	31.92	58.15	84	-25.85
(Fc * 5)	Hor	43.46	8.00	38.94	31.92	58.48	84	-25.52
14772.000	Vert	44.46	8.85	37.09	31.00	59.40	84	-24.60
(Fc * 6)	Hor	43.85	8.85	37.09	31.00	58.79	84	-25.21
17234.000	Vert	42.75	10.00	37.24	31.25	58.74	84	-25.26
(Fc * 7)	Hor	42.67	10.00	37.24	31.25	58.66	84	-25.34
19696.000	Vert	42.51	10.70	40.26	30.84	62.63	84	-21.37
(Fc * 8)	Hor	42.85	10.70	40.26	30.84	62.97	84	-21.03
22158.000	Vert	43.75	11.80	40.34	29.70	66.19	84	-17.81
(Fc * 9)	Hor	44.08	11.80	40.34	29.70	66.52	84	-17.48
24620.000	Vert	41.58	13.00	40.44	30.78	64.24	84	-19.76
(Fc * 10)	Hor	42.12	13.00	40.44	30.78	64.78	84	-19.22

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 063363 5 dBi Dipole

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

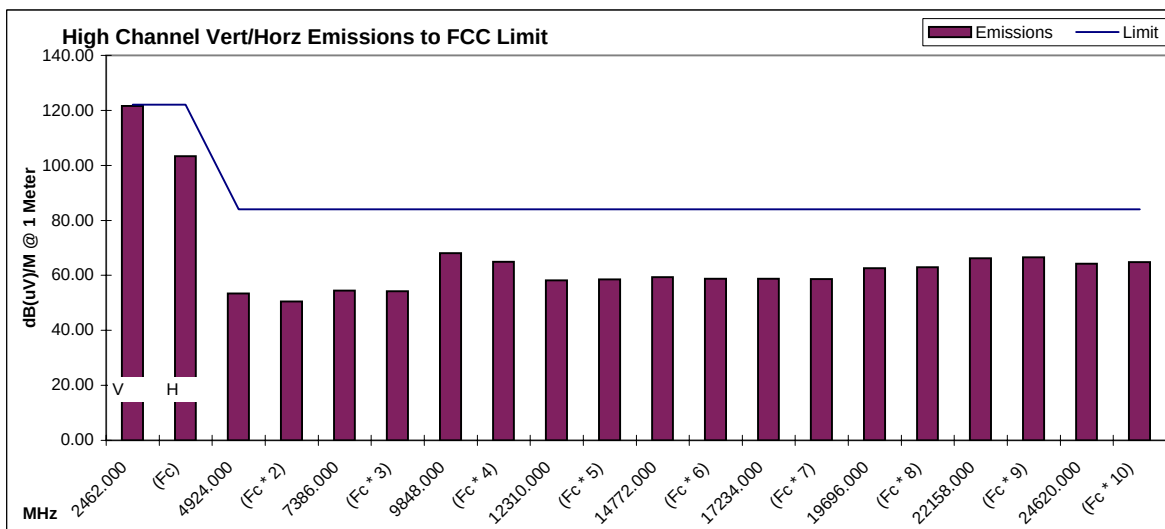
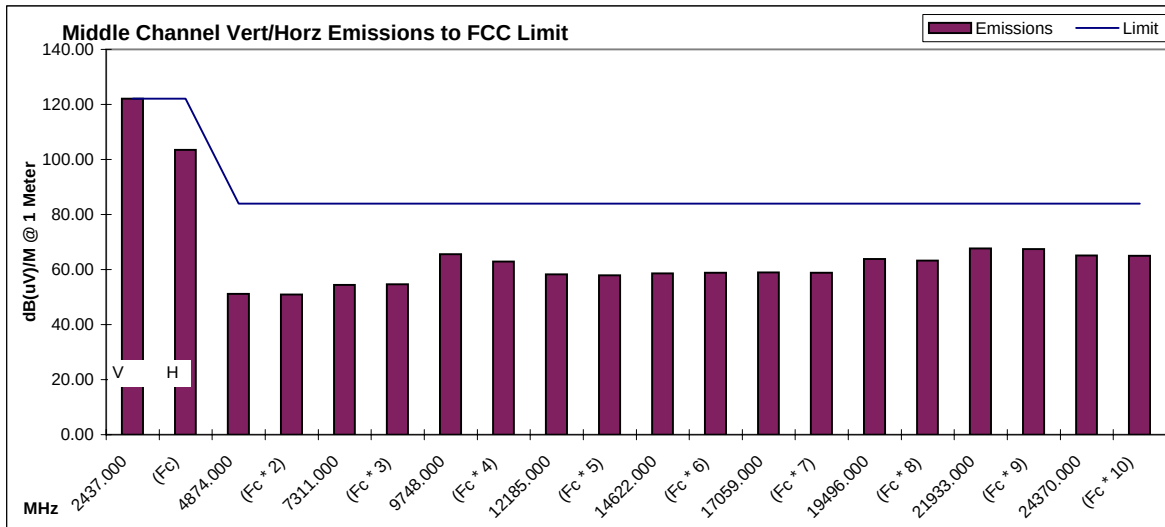
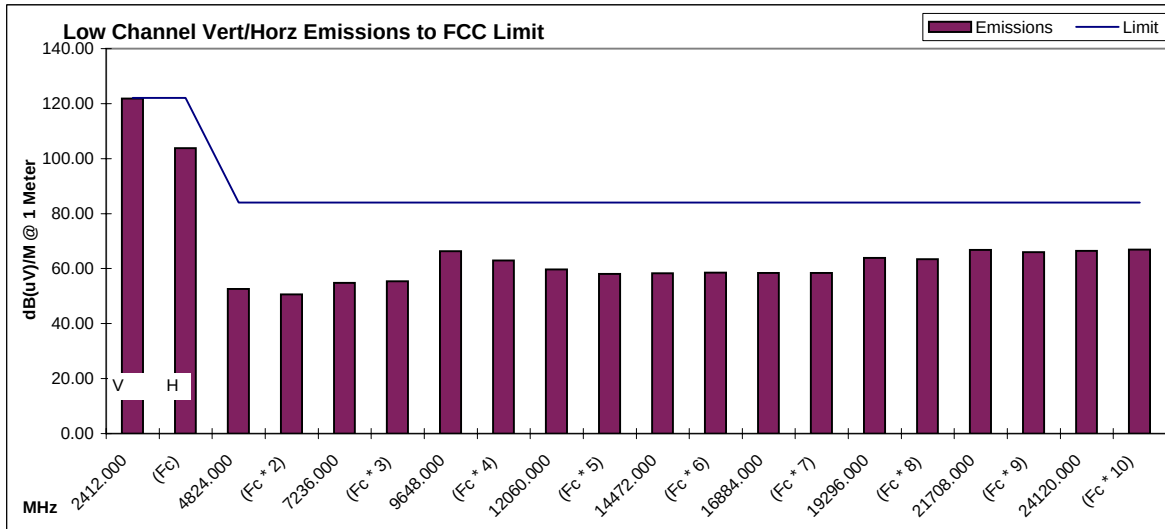
Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

PK Detector 1 MHz BW



AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 067262 5 dBi Dual Panel

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

AVG Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 1								
2412.000	Vert	81.34	2.70	28.62		112.66	114	-1.12
(Fc)	Hor	74.49	2.70	28.62		105.81	114	-7.97
4824.000	Vert	38.11	4.80	33.54	32.86	43.59	64	-20.41
(Fc * 2)	Hor	36.60	4.80	33.54	32.86	42.08	64	-21.92
7236.000	Vert	32.12	6.40	36.68	32.16	43.04	94	-50.96
(Fc * 3)	Hor	32.51	6.40	36.68	32.16	43.43	94	-50.57
9648.000	Vert	51.43	7.10	38.18	33.40	63.31	94	-30.69
(Fc * 4)	Hor	46.09	7.10	38.18	33.40	57.97	94	-36.03
12060.000	Vert	31.94	8.00	39.10	32.40	46.64	64	-17.36
(Fc * 5)	Hor	31.92	8.00	39.10	32.40	46.62	64	-17.38
14472.000	Vert	31.60	8.80	37.08	30.56	46.92	94	-47.08
(Fc * 6)	Hor	31.68	8.80	37.08	30.56	47.00	94	-47.00
16884.000	Vert	30.76	9.80	37.22	31.26	46.52	94	-47.48
(Fc * 7)	Hor	30.68	9.80	37.22	31.26	46.44	94	-47.56
19296.000	Vert	31.37	10.70	40.25	30.70	51.62	64	-12.38
(Fc * 8)	Hor	32.48	10.70	40.25	30.70	52.73	64	-11.27
21708.000	Vert	31.38	11.80	40.33	29.28	54.23	94	-39.77
(Fc * 9)	Hor	31.27	11.80	40.33	29.28	54.12	94	-39.88
24120.000	Vert	30.31	13.00	40.41	29.40	54.32	94	-39.68
(Fc * 10)	Hor	30.52	13.00	40.41	29.40	54.53	94	-39.47

Middle Channel 6								
2437.000	Vert	81.98	2.70	28.69		113.37	114	-0.41
(Fc)	Hor	73.37	2.70	28.69		104.76	114	-9.02
4874.000	Vert	39.02	4.85	33.76	32.78	44.85	64	-19.15
(Fc * 2)	Hor	37.94	4.85	33.76	32.78	43.77	64	-20.23
7311.000	Vert	32.11	6.30	36.98	32.60	42.79	64	-21.21
(Fc * 3)	Hor	31.97	6.30	36.98	32.60	42.65	64	-21.35
9748.000	Vert	52.89	7.30	38.31	33.40	65.10	94	-28.90
(Fc * 4)	Hor	48.01	7.30	38.31	33.40	60.22	94	-33.78
12185.000	Vert	31.92	7.80	39.02	32.16	46.58	64	-17.42
(Fc * 5)	Hor	31.79	7.80	39.02	32.16	46.45	64	-17.55
14622.000	Vert	31.99	8.65	37.08	30.75	46.97	94	-47.03
(Fc * 6)	Hor	32.21	8.65	37.08	30.75	47.19	94	-46.81
17059.000	Vert	30.47	9.90	37.23	31.00	46.60	94	-47.40
(Fc * 7)	Hor	30.67	9.90	37.23	31.00	46.80	94	-47.20
19496.000	Vert	31.87	10.70	40.25	30.71	52.11	64	-11.89
(Fc * 8)	Hor	32.72	10.70	40.25	30.71	52.96	64	-11.04
21933.000	Vert	32.73	11.80	40.34	29.21	55.66	94	-38.34
(Fc * 9)	Hor	32.70	11.80	40.34	29.21	55.63	94	-38.37
24370.000	Vert	30.02	13.00	40.43	30.12	53.33	94	-40.67
(Fc * 10)	Hor	29.72	13.00	40.43	30.12	53.03	94	-40.97

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 067262 5 dBi Dual Panel

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

AVG Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 11	2462.000	MHz						
2462.000	Vert	82.31	2.70	28.77		113.78	114	
(Fc)	Hor	73.25	2.70	28.77		104.72	114	-9.06
4924.000	Vert	38.78	4.90	33.90	32.74	44.84	64	-19.16
(Fc * 2)	Hor	38.12	4.90	33.90	32.74	44.18	64	-19.82
7386.000	Vert	32.25	6.25	37.26	33.11	42.65	64	-21.35
(Fc * 3)	Hor	32.34	6.25	37.26	33.11	42.74	64	-21.26
9848.000	Vert	54.42	7.45	38.44	33.40	66.91	94	-27.09
(Fc * 4)	Hor	50.62	7.45	38.44	33.40	63.11	94	-30.89
12310.000	Vert	31.33	8.00	38.94	31.92	46.35	64	-17.65
(Fc * 5)	Hor	31.51	8.00	38.94	31.92	46.53	64	-17.47
14772.000	Vert	32.50	8.85	37.09	31.00	47.44	94	-46.56
(Fc * 6)	Hor	33.19	8.85	37.09	31.00	48.13	94	-45.87
17234.000	Vert	30.81	10.00	37.24	31.25	46.80	94	-47.20
(Fc * 7)	Hor	30.76	10.00	37.24	31.25	46.75	94	-47.25
19696.000	Vert	31.28	10.70	40.26	30.84	51.40	94	-42.60
(Fc * 8)	Hor	31.40	10.70	40.26	30.84	51.52	64	-12.48
22158.000	Vert	31.72	11.80	40.34	29.70	54.16	64	-9.84
(Fc * 9)	Hor	31.52	11.80	40.34	29.70	53.96	64	-10.04
24620.000	Vert	29.44	13.00	40.44	30.78	52.10	94	-41.90
(Fc * 10)	Hor	29.68	13.00	40.44	30.78	52.34	94	-41.66

AVERAGE TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 067262 5 dBi Dual Panel

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

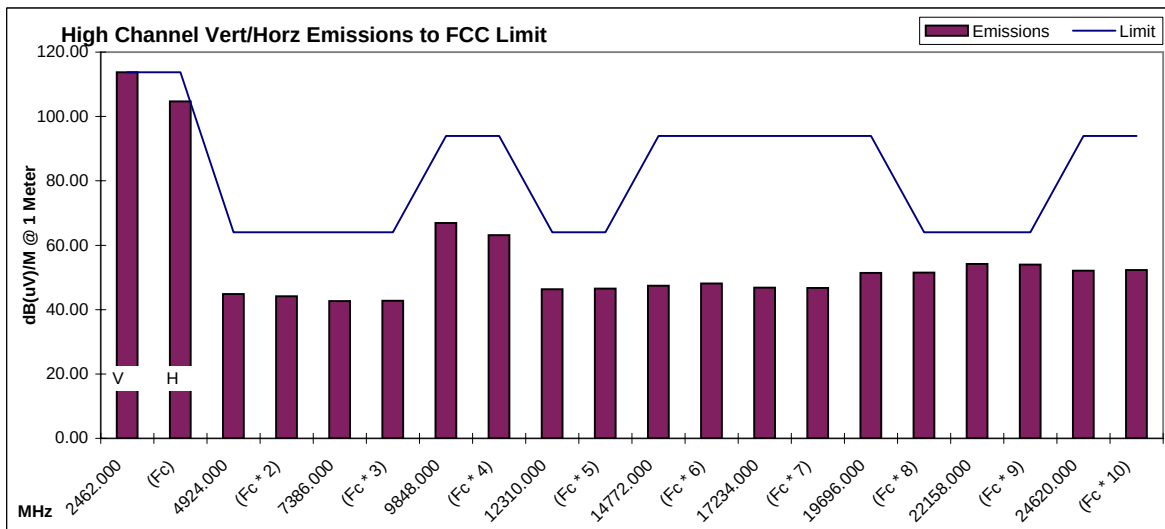
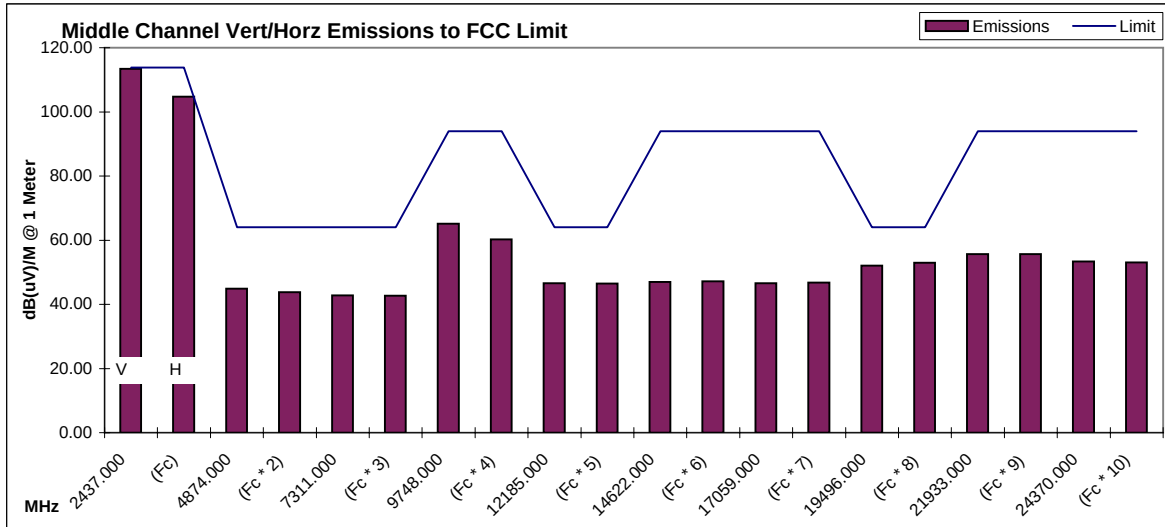
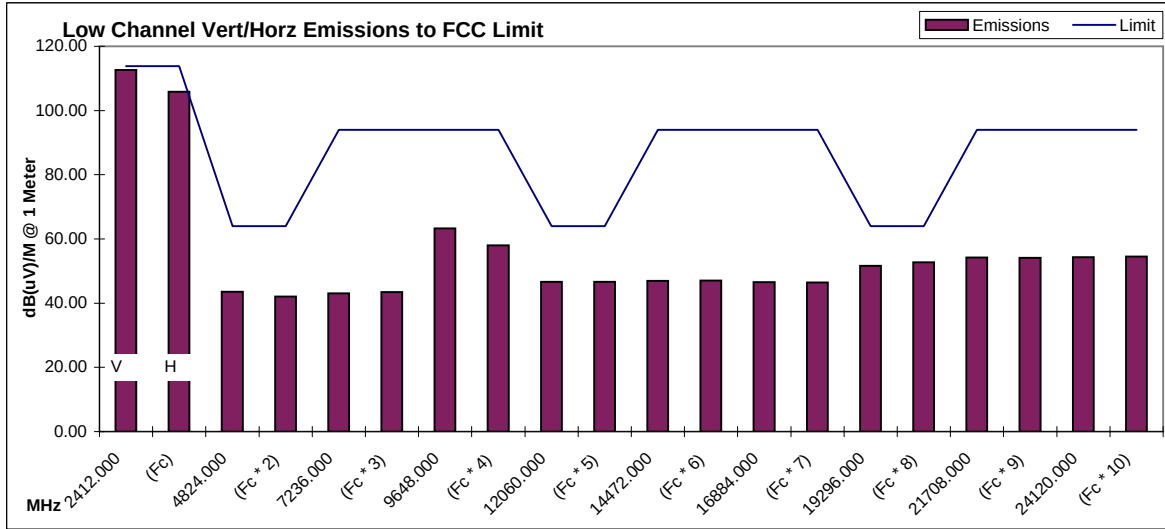
Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

AVG Detector 1 MHz BW



PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 067262 5 dBi Dual Panel

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

PK Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
Low Channel 1	2412.000	MHz						
2412.000	Vert	90.79	2.70	28.62		122.11	123	-0.89
(Fc)	Hor	82.10	2.70	28.62		113.42	123	-9.58
4824.000	Vert	45.50	4.80	33.54	32.86	50.98	84	-33.02
(Fc * 2)	Hor	46.52	4.80	33.54	32.86	52.00	84	-32.00
7236.000	Vert	44.13	6.40	36.68	32.16	55.05	84	-28.95
(Fc * 3)	Hor	43.82	6.40	36.68	32.16	54.74	84	-29.26
9648.000	Vert	53.68	7.10	38.18	33.40	65.56	84	-18.44
(Fc * 4)	Hor	49.41	7.10	38.18	33.40	61.29	84	-22.71
12060.000	Vert	43.84	8.00	39.10	32.40	58.54	84	-25.46
(Fc * 5)	Hor	43.76	8.00	39.10	32.40	58.46	84	-25.54
14472.000	Vert	43.12	8.80	37.08	30.56	58.44	84	-25.56
(Fc * 6)	Hor	43.31	8.80	37.08	30.56	58.63	84	-25.37
16884.000	Vert	42.51	9.80	37.22	31.26	58.27	84	-25.73
(Fc * 7)	Hor	43.03	9.80	37.22	31.26	58.79	84	-25.21
19296.000	Vert	43.88	10.70	40.25	30.70	64.13	84	-19.87
(Fc * 8)	Hor	42.66	10.70	40.25	30.70	62.91	84	-21.09
21708.000	Vert	43.26	11.80	40.33	29.28	66.11	84	-17.89
(Fc * 9)	Hor	43.15	11.80	40.33	29.28	66.00	84	-18.00
24120.000	Vert	41.81	13.00	40.41	29.40	65.82	84	-18.18
(Fc * 10)	Hor	42.40	13.00	40.41	29.40	66.41	84	-17.59

Middle Channel 6	2437	MHz						
2437.000	Vert	91.41	2.70	28.69		122.80	123	-0.20
(Fc)	Hor	80.99	2.70	28.69		112.38	123	-10.62
4874.000	Vert	47.15	4.85	33.76	32.78	52.98	84	-31.02
(Fc * 2)	Hor	45.39	4.85	33.76	32.78	51.22	84	-32.78
7311.000	Vert	43.58	6.30	36.98	32.60	54.26	84	-29.74
(Fc * 3)	Hor	43.56	6.30	36.98	32.60	54.24	84	-29.76
9748.000	Vert	54.81	7.30	38.31	33.40	67.02	84	-16.98
(Fc * 4)	Hor	51.36	7.30	38.31	33.40	63.57	84	-20.43
12185.000	Vert	43.03	7.80	39.02	32.16	57.69	84	-26.31
(Fc * 5)	Hor	43.66	7.80	39.02	32.16	58.32	84	-25.68
14622.000	Vert	43.64	8.65	37.08	30.75	58.62	84	-25.38
(Fc * 6)	Hor	43.10	8.65	37.08	30.75	58.08	84	-25.92
17059.000	Vert	42.61	9.90	37.23	31.00	58.74	84	-25.26
(Fc * 7)	Hor	42.43	9.90	37.23	31.00	58.56	84	-25.44
19496.000	Vert	42.39	10.70	40.25	30.71	62.63	84	-21.37
(Fc * 8)	Hor	42.80	10.70	40.25	30.71	63.04	84	-20.96
21933.000	Vert	44.48	11.80	40.34	29.21	67.41	84	-16.59
(Fc * 9)	Hor	44.45	11.80	40.34	29.21	67.38	84	-16.62
24370.000	Vert	41.26	13.00	40.43	30.12	64.57	84	-19.43
(Fc * 10)	Hor	41.56	13.00	40.43	30.12	64.87	84	-19.13

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 067262 5 dBi Dual Panel

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

PK Detector 1 MHz BW

Frequency (MHz)	Measurement Antenna Polarity	EUT 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 @ 1 Meter dB(uV)/Meter	Margin (dB)
a	b	c	d	e	f	g	h	i
(formula)						(=c+d+e-f)		(=g-h)
High Channel 11	2462	MHz						
2462.000	Vert	91.41	2.70	28.77		122.88	123	-0.12
(Fc)	Hor	80.71	2.70	28.77		112.18	123	-10.82
4924.000	Vert	46.65	4.90	33.90	32.74	52.71	84	-31.29
(Fc * 2)	Hor	46.32	4.90	33.90	32.74	52.38	84	-31.62
7386.000	Vert	44.40	6.25	37.26	33.11	54.80	84	-29.20
(Fc * 3)	Hor	43.58	6.25	37.26	33.11	53.98	84	-30.02
9848.000	Vert	55.68	7.45	38.44	33.40	68.17	84	-15.83
(Fc * 4)	Hor	52.35	7.45	38.44	33.40	64.84	84	-19.16
12310.000	Vert	43.36	8.00	38.94	31.92	58.38	84	-25.62
(Fc * 5)	Hor	43.03	8.00	38.94	31.92	58.05	84	-25.95
14772.000	Vert	43.70	8.85	37.09	31.00	58.64	84	-25.36
(Fc * 6)	Hor	44.00	8.85	37.09	31.00	58.94	84	-25.06
17234.000	Vert	42.57	10.00	37.24	31.25	58.56	84	-25.44
(Fc * 7)	Hor	42.92	10.00	37.24	31.25	58.91	84	-25.09
19696.000	Vert	43.65	10.70	40.26	30.84	63.77	84	-20.23
(Fc * 8)	Hor	43.72	10.70	40.26	30.84	63.84	84	-20.16
22158.000	Vert	43.48	11.80	40.34	29.70	65.92	84	-18.08
(Fc * 9)	Hor	43.67	11.80	40.34	29.70	66.11	84	-17.89
24620.000	Vert	41.28	13.00	40.44	30.78	63.94	84	-20.06
(Fc * 10)	Hor	41.52	13.00	40.44	30.78	64.18	84	-19.82

PEAK TRANSMITTER RADIATED SPURIOUS EMISSIONS

FCC ID: HN2-802CF13E IC: 1223A-802CF13E

Intermec Technologies Corporation

Product: Intermec EasyLAN Wireless with Intermec antenna PN 067262 5 dBi Dual Panel

EMC Test Laboratory

Set Up: CF Actiontech 802.11b radio within the CF - RF print server board, extended

Cedar Rapids, IA

Test Date (mm/dd/yy): 08/13/04

Standard: FCC 15.247, RSS-210

Measurement System Calibration Date: 08/05/04

PK Detector 1 MHz BW

