COMPATIBLE ELECTRONICS

RADIATED & CONDUCTED EMISSIONS

DATA SHEETS

RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.		DATE	7/19/2005	
EUT	IntelliSwitch		DUTY CYCLE	N/A	%
MODEL	34000002-001		PEAK TO AVG	N/A	dB
S/N	NONE		TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan		LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
2706.0000		A	H					29.1	2.0	30.0					54.0	no emission found
2706.0000	41.7	A	V	2.0	270			29.1	2.0	30.0			42.8	-11.2	54.0	
2745.0000	40.5	A	H	4.0	270			29.2	2.0	30.0		0.0	41.7	-12.3	54.0	
2745.0000	41.8	A	V	2.0	270			29.2	2.0	30.0		0.0	43.0	-11.0	54.0	
2784.0000	40.9	A	H	2.0	270			29.3	2.0	30.0		0.0	42.3	-11.7	54.0	
2784.0000	41.1	A	V	2.0	270			29.3	2.0	30.0		0.0	42.5	-11.5	54.0	

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.		DATE	7/19/2005	
EUT	IntelliSwitch		DUTY CYCLE	N/A	%
MODEL	34000002-001		PEAK TO AVG	N/A	dB
S/N	NONE		TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan		LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
3608.0000		A	H					30.6	2.4	29.2					54.0	no emission found
3608.0000		A	V					30.6	2.4	29.2					54.0	no emission found
3660.0000		A	H					30.6	2.5	29.2					54.0	no emission found
3660.0000		A	V					30.6	2.5	29.2					54.0	no emission found
3712.0000		A	H					30.6	2.6	29.1					54.0	no emission found
3712.0000		A	V					30.6	2.6	29.1					54.0	no emission found

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RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.	DATE	7/19/2005	
EUT	IntelliSwitch	DUTY CYCLE	N/A	%
MODEL	34000002-001	PEAK TO AVG	N/A	dB
S/N	NONE	TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan	LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
4510.0000		A	H					31.2	2.5	28.3					54.0	no emission found
4510.0000		A	V					31.2	2.5	28.3					54.0	no emission found
4575.0000		A	H					31.5	2.5	28.2					54.0	no emission found
4575.0000		A	V					31.5	2.5	28.2					54.0	no emission found
4640.0000		A	H					31.7	2.6	28.2					54.0	no emission found
4640.0000		A	V					31.7	2.6	28.2					54.0	no emission found

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RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.		DATE	7/19/2005	
EUT	IntelliSwitch		DUTY CYCLE	N/A	%
MODEL	34000002-001		PEAK TO AVG	N/A	dB
S/N	NONE		TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan		LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
5412.0000		A	H					33.7	2.8	27.5					54.0	no emission found
5412.0000		A	V					33.7	2.8	27.5					54.0	no emission found
5490.0000		A	H					33.9	2.8	27.4					54.0	no emission found
5490.0000		A	V					33.9	2.8	27.4					54.0	no emission found
5568.0000		A	H					33.9	2.8	27.4					54.0	no emission found
5568.0000		A	V					33.9	2.8	27.4					54.0	no emission found

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RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.	DATE	7/19/2005	
EUT	IntelliSwitch	DUTY CYCLE	N/A	%
MODEL	34000002-001	PEAK TO AVG	N/A	dB
S/N	NONE	TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan	LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
6314.0000		A	H					34.4	3.1	28.0					54.0	no emission found
6314.0000		A	V					34.4	3.1	28.0					54.0	no emission found
6405.0000		A	H					34.5	3.1	28.0					54.0	no emission found
6405.0000		A	V					34.5	3.1	28.0					54.0	no emission found
6496.0000		A	H					34.7	3.2	28.1					54.0	no emission found
6496.0000		A	V					34.7	3.2	28.1					54.0	no emission found

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RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.	DATE	7/19/2005	
EUT	IntelliSwitch	DUTY CYCLE	N/A	%
MODEL	34000002-001	PEAK TO AVG	N/A	dB
S/N	NONE	TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan	LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
7216.0000		A	H					37.0	3.4	28.4					54.0	no emission found
7216.0000		A	V					37.0	3.4	28.4					54.0	no emission found
7320.0000		A	H					37.2	3.5	28.4					54.0	no emission found
7320.0000		A	V					37.2	3.5	28.4					54.0	no emission found
7424.0000		A	H					37.4	3.5	28.4					54.0	no emission found
7424.0000		A	V					37.4	3.5	28.4					54.0	no emission found

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RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.	DATE	7/19/2005	
EUT	IntelliSwitch	DUTY CYCLE	N/A	%
MODEL	34000002-001	PEAK TO AVG	N/A	dB
S/N	NONE	TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan	LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
8118.0000		A	H					37.7	3.7	28.2					54.0	no emission found
8118.0000		A	V					37.7	3.7	28.2					54.0	no emission found
8235.0000		A	H					37.8	3.9	28.2					54.0	no emission found
8235.0000		A	V					37.8	3.9	28.2					54.0	no emission found
8352.0000		A	H					38.0	3.9	28.2					54.0	no emission found
8352.0000		A	V					38.0	3.9	28.2					54.0	no emission found

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RADIATED EMISSIONS (FCC SECTION 15.247 AND 15.205)

COMPANY	Vue Technology, Inc.		DATE	7/19/2005	
EUT	IntelliSwitch		DUTY CYCLE	N/A	%
MODEL	34000002-001		PEAK TO AVG	N/A	dB
S/N	NONE		TEST DIST.	3	Meters
TEST ENGINEER	Joey Madlangbayan		LAB	J	

Frequency MHz	Peak Reading (dBuV)	Average (A) or Quasi-Peak (QP)	Antenna Polar. (V or H)	Antenna Height (meters)	EUT Azimuth (degrees)	EUT Axis (X,Y,Z)	EUT Tx Channel	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	Distance Factor (dB)	Mixer Factor (dB)	*Corrected Reading (dBuV/m)	Delta ** (dB)	Spec Limit dBuV/m	Comments
9020.0000		A	H					38.3	4.3	28.7					54.0	no emission found
9020.0000		A	V					38.3	4.3	28.7					54.0	no emission found
9150.0000		A	H					38.7	4.3	28.5					54.0	no emission found
9150.0000		A	V					38.7	4.3	28.5					54.0	no emission found
9280.0000		A	H					39.0	4.3	28.3					54.0	no emission found
9280.0000		A	V					39.0	4.3	28.3					54.0	no emission found

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = SPEC LIMIT - CORRECTED READING

COMPATIBLE ELECTRONICS

```
Test Location   : Compatible Electronics          Page : 1/1
Customer        : Steve Trivelpiece               Date : 07/19/2005
Manufacturer    : MeadWestVaco                     Time : 11:07:33 AM
Eut name        : IntelliSwitch with Symb-rdr (0490)   Lab : J
Model           : Eth-33%                  Test Distance :  3.00 Meters
Serial #        : ext-pwr-load,gpio-load, rs485-load
Specification   : FCC Pt. 15 - Class B
Distance correction factor (20 * log(test/spec))           :  0.00
Test Mode       : 3.68MHz, (25clk) 100MHz & 125MHz
                  SDRAM-testOFF_,RS232-OFF_,Ethernet-ON
                  9kHz-9280MHz test range
                  Qualification scan, J.Madlangbayan
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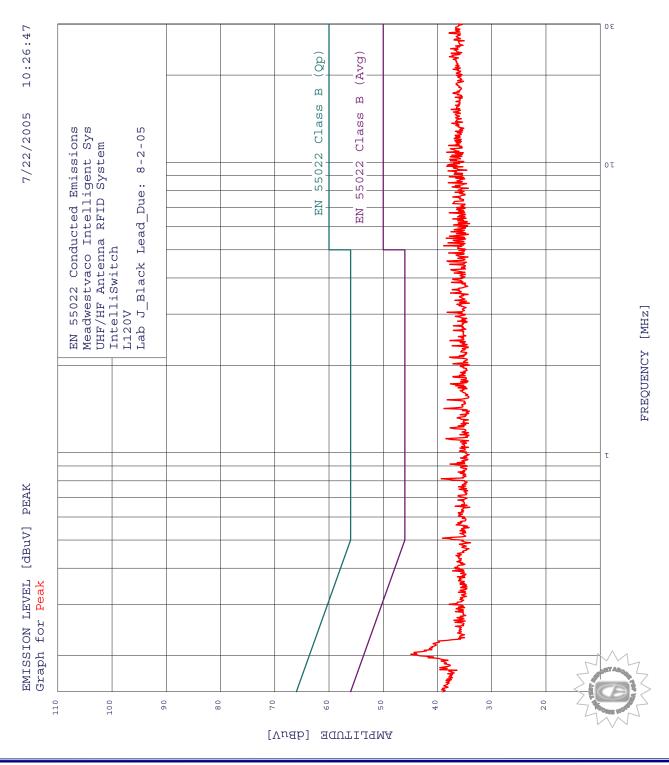
Pol	Freq MHz	Reading dBuV	Cable loss dB	Antenna factor dB	Amplifier gain dB	Corr'd rdg = R dBuV/m	Limit = L dBuV/m	Delta R-L dB
1V	75.086	49.80	1.01	7.26	30.69	27.38	40.00	-12.62
2V	100.082	54.00	1.20	10.80	26.81	39.20	43.50	-4.30
3V	125.062	52.50	1.40	12.80	28.70	38.00	43.50	-5.50
4V	150.072	49.30	1.50	12.50	30.30	33.00	43.50	-10.50
5V	200.034	56.60	1.80	17.00	31.00	44.40	43.50	0.90
6V	200.045Qp	54.76	1.80	17.00	31.00	42.56	43.50	-0.94
7V	250.094	52.30	2.10	16.31	31.00	39.71	46.00	-6.29
8H	100.079	53.00	1.20	10.80	26.81	38.20	43.50	-5.30
9H	125.059	52.70	1.40	12.80	28.70	38.20	43.50	-5.30
10H	200.089	53.10	1.80	17.00	31.00	40.90	43.50	-2.60
11H	200.089Qp	51.16	1.80	17.00	31.00	38.96	43.50	-4.54
12H	250.085	50.40	2.10	16.31	31.00	37.81	46.00	-8.19
13V	350.063	44.90	2.50	15.10	30.60	31.90	46.00	-14.10
14V	375.081	48.20	2.66	16.65	30.60	36.91	46.00	-9.09
15V	400.117	47.50	2.80	18.09	30.60	37.80	46.00	-8.20
16V	500.089	56.00	3.40	16.90	30.30	46.00	46.00	-0.00
17V	500.072Qp	54.24	3.40	16.90	30.30	44.24	46.00	-1.76
18V	600.088	47.20	3.60	18.70	30.20	39.30	46.00	-6.70
19V	625.042	50.50	3.75	18.29	30.15	42.40	46.00	-3.60
20H	350.071	43.10	2.50	15.10	30.60	30.11	46.00	-15.89
21H	375.099	46.20	2.66	16.66	30.60	34.91	46.00	-11.09
22H	500.089	53.90	3.40	16.90	30.30	43.90	46.00	-2.10
23H	500.089Qp	52.16	3.40	16.90	30.30	42.16	46.00	-3.84
24H	600.089	47.50	3.60	18.70	30.20	39.60	46.00	-6.40
25H	625.037	52.70	3.75	18.29	30.15	44.60	46.00	-1.40
26H	625.037Qp	51.43	3.75	18.29	30.15	43.33	46.00	-2.67
27H	750.052	43.40	4.20	18.90	30.10	36.40	46.00	-9.60

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

COMPATIBLE ELECTRONICS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

7/22/2005 10:26:47

EN 55022 Conducted Emissions
Meadwestvaco Intelligent Sys
UHF/HF Antenna RFID System
IntelliSwitch
L120V
Lab J_Black Lead_Due: 8-2-05

EN 55022 Class B (Qp)
EN 55022 Class B (Avg)

AMPLITUDE [dBuV]

FREQUENCY [MHz]

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

COMPATIBLE ELECTRONICS

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EN 55022 Conducted Emissions    7/22/2005      10:26:47
Meadwestvaco Intelligent Sys
UHF/HF Antenna RFID System
IntelliSwitch
L120V
Lab J_Black Lead_Due: 8-2-05
TEST ENGINEER :  J. Madlangbayan
--------------------------------------------------
6 highest peaks above -50.00 dB of EN 55022 Class B (Avg) limit line
Peak criteria :  3.00 dB, Curve : Peak
Peak#   Freq(MHz)   Amp(dBuV)   Limit(dB)   Delta(dB)
  1       0.814       39.29       46.00       -6.71
  2       0.508       39.07       46.00       -6.93
  3       1.419       38.80       46.00       -7.20
  4       1.118       38.46       46.00       -7.54
  5       4.576       38.24       46.00       -7.76
  6       3.043       38.21       46.00       -7.79
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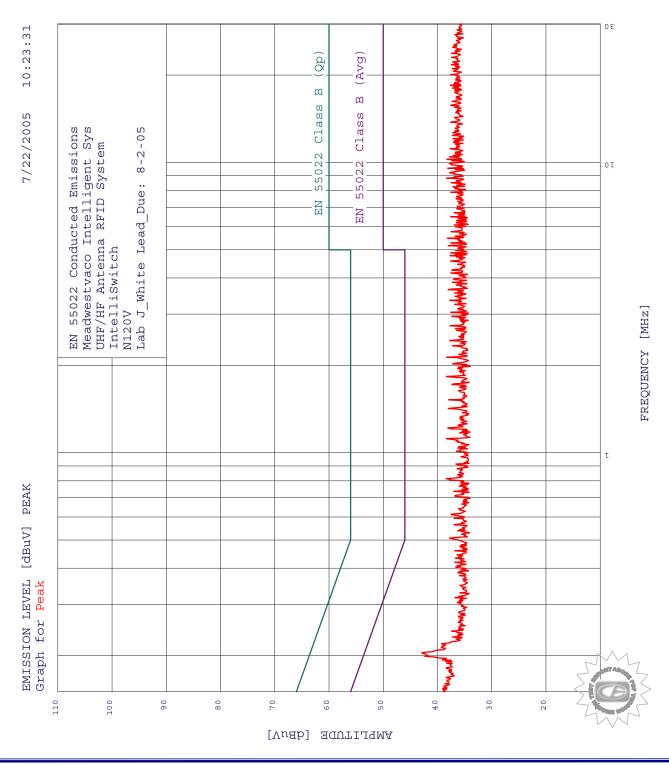
COMPATIBLE ELECTRONICS

EMISSION LEVEL [dBuV] PEAK
Graph for Peak

7/22/2005 10:23:31

EN 55022 Conducted Emissions
Meadwestvaco Intelligent Sys
UHF/HF Antenna RFID System
IntelliSwitch
N120V
Lab J_White Lead_Due: 8-2-05

EN 55022 Class B (Qp)
EN 55022 Class B (Avg)

AMPLITUDE [dBuV]

FREQUENCY [MHz]

Brea Division
114 Olinda Drive
Brea, CA 92823
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2337 Troutdale Drive
Agoura, CA 91301
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Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

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EN 55022 Conducted Emissions   7/22/2005    10:23:31
Meadwestvaco Intelligent Sys
UHF/HF Antenna RFID System
IntelliSwitch
N120V
Lab J_White Lead_Due: 8-2-05
TEST ENGINEER :  J. Madlangbayan
---------------------------------------------------
6 highest peaks above -50.00 dB of EN 55022 Class B (Avg) limit line
Peak criteria :  3.00 dB, Curve : Peak
Peak#  Freq(MHz)   Amp(dBuV)   Limit(dB)   Delta(dB)
 1      0.814       38.40       46.00       -7.60
 2      1.118       38.37       46.00       -7.63
 3      1.830       38.35       46.00       -7.65
 4      2.134       38.29       46.00       -7.71
 5      1.217       38.08       46.00       -7.92
 6      3.644       38.04       46.00       -7.96
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