

RADIATED EMISSIONS



Test Report #: 3424 Run 3 Test Area: LTS

EUT Model #: 57-875-95R Date: 7/23/04

EUT Serial #: _____ EUT Power: 60 Hz / 110 VAC Temperature: 22.0 °C

Test Method: FCC Part 15, Subpart C, Section 15.231 Air Pressure: 100.0 kPa

Customer: GE Security Rel. Humidity: 60.0 %

EUT Description: 319.5 MHz Super Board transceiver

Notes: _____

Data File Name: _____ Page: 1 of 3

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1	DELTA2
Res BW and Video BW = 100 kHz:						
Right antenna as viewed from the front:						
319.578 MHz	79.6 Pk	1.5 / 14.1 / 0.0 / 0.0	95.2	V / 1.00 / 0	n/a	n/a
319.578 MHz	77.0 Pk	1.5 / 14.1 / 0.0 / 0.0	92.6	H / 1.00 / 0	n/a	n/a
Left antenna:						
319.578 MHz	76.05 Pk	1.5 / 14.1 / 0.0 / 0.0	91.65	V / 1.00 / 0	n/a	n/a
319.578 MHz	78.0 Pk	1.5 / 14.1 / 0.0 / 0.0	93.6	H / 1.00 / 0	n/a	n/a
639.148 MHz	54.7 Pk	2.1 / 20.0 / 27.05 / 0.8	50.55	H / 1.00 / 0	n/a	n/a
639.148 MHz	59.3 Pk	2.1 / 20.0 / 27.05 / 0.8	55.15	V / 1.00 / 0	n/a	n/a
Right antenna:						
639.148 MHz	57.15 Pk	2.1 / 20.0 / 27.05 / 0.8	53.0	V / 1.00 / 0	n/a	n/a
639.148 MHz	53.05 Pk	2.1 / 20.0 / 27.05 / 0.8	48.9	H / 1.00 / 0	n/a	n/a
958.718 MHz	46.1 Pk	2.68 / 23.31 / 26.52 / 0.3	45.88	H / 1.00 / 0	n/a	n/a
958.718 MHz	45.55 Pk	2.68 / 23.31 / 26.52 / 0.3	45.33	V / 1.00 / 0	n/a	n/a
Left antenna:						
958.718 MHz	44.9 Pk	2.68 / 23.31 / 26.52 / 0.3	44.68	V / 1.00 / 0	n/a	n/a
958.718 MHz	40.8 Pk	2.68 / 23.31 / 26.52 / 0.3	40.58	H / 1.00 / 0	n/a	n/a
ResBW & Video BW = 1 MHz:						
1.278 GHz	36.25 Pk	3.1 / 26.57 / 26.3 / 0.5	40.11	H / 1.00 / 0	n/a	n/a
1.278 GHz	37.55 Pk	3.1 / 26.57 / 26.3 / 0.5	41.41	V / 1.00 / 0	n/a	n/a
1.598 GHz	43.1 Pk	3.52 / 27.27 / 26.5 / 0.32	47.71	V / 1.00 / 0	n/a	n/a
1.598 GHz	40.3 Pk	3.52 / 27.27 / 26.5 / 0.32	44.91	H / 1.00 / 0	n/a	n/a
1.917 GHz	39.3 Pk	3.88 / 29.12 / 26.76 / 0.75	46.29	H / 1.00 / 0	n/a	n/a
1.917 GHz	39.8 Pk	3.88 / 29.12 / 26.76 / 0.75	46.79	V / 1.00 / 0	n/a	n/a
2.237 GHz	33.75 Pk	4.11 / 30.12 / 26.92 / 0.39	41.46	V / 1.00 / 0	n/a	n/a
2.237 GHz	38.75 Pk	4.11 / 30.12 / 26.92 / 0.39	46.46	H / 1.00 / 0	n/a	n/a
2.557 GHz	34.65 Pk	4.4 / 30.81 / 26.65 / 0.4	43.61	H / 1.00 / 0	n/a	n/a
2.557 GHz	33.6 Pk	4.4 / 30.81 / 26.65 / 0.4	42.56	V / 1.00 / 0	n/a	n/a

Tested by: J. C. Sausen _____

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RADIATED EMISSIONS



Test Report #: 3424 Run 4 Test Area: LTS

EUT Model #: 57-875-95R Date: 7/23/04

EUT Serial #: _____ EUT Power: 60 Hz / 110 VAC Temperature: 22.0 °C

Test Method: _____ Air Pressure: 100.0 kPa

Customer: GE Security Rel. Humidity: 60.0 %

EUT Description: 319.5 MHz Super Board transceiver

Notes: EUT fully powered, but TRx in standby mode.

Data File Name: 3424.dat

Page: 1 of 4

List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC-B <1GHz 3m	DELTA2 FCC B >1GHz 3m
30.006 MHz	38.3 Qp	0.42 / 20.7 / 25.9 / 0.0	33.52	V / 1.00 / 0	-6.48	n/a
40.002 MHz	36.75 Qp	0.5 / 16.9 / 25.9 / 0.0	28.25	V / 1.00 / 0	-11.75	n/a
50.002 MHz	47.0 Qp	0.6 / 14.28 / 25.9 / 0.0	35.98	V / 1.00 / 0	-4.02	n/a
60.002 MHz	43.2 Qp	0.6 / 11.8 / 25.9 / 0.0	29.7	V / 1.00 / 0	-10.3	n/a
70.002 MHz	39.75 Qp	0.7 / 9.4 / 25.81 / 0.0	24.04	V / 1.00 / 0	-15.96	n/a
80.002 MHz	37.25 Qp	0.8 / 7.57 / 25.8 / 0.0	19.82	V / 1.00 / 0	-20.18	n/a
90.0 MHz	33.85 Qp	0.8 / 7.79 / 25.85 / 0.0	16.6	V / 1.00 / 0	-26.9	n/a
100.0 MHz	39.0 Qp	0.88 / 9.06 / 25.9 / 0.0	23.04	V / 1.00 / 0	-20.46	n/a
110.0 MHz	35.35 Qp	0.86 / 9.51 / 25.96 / 0.0	19.76	V / 1.00 / 0	-23.74	n/a
120.0 MHz	34.2 Qp	0.9 / 9.51 / 25.96 / 0.0	18.65	V / 1.00 / 0	-24.85	n/a
130.0 MHz	30.5 Qp	1.0 / 8.44 / 26.08 / 0.0	13.87	V / 1.00 / 0	-29.63	n/a
140.0 MHz	30.4 Qp	1.0 / 9.26 / 26.02 / 0.0	14.65	V / 1.00 / 0	-28.85	n/a
44.986 MHz	34.7 Qp	0.6 / 15.43 / 25.9 / 0.0	24.83	V / 1.00 / 0	-15.17	n/a
61.836 MHz	40.65 Qp	0.63 / 11.37 / 25.9 / 0.0	26.75	V / 1.00 / 0	-13.25	n/a
110.008 MHz	35.65 Qp	0.86 / 9.51 / 25.96 / 0.0	20.06	V / 1.00 / 0	-23.44	n/a
244.085 MHz	30.6 Qp	1.31 / 11.7 / 26.3 / 0.0	17.31	V / 1.00 / 0	-28.69	n/a
44.237 MHz	35.75 Qp	0.6 / 15.67 / 25.9 / 0.0	26.12	V / 1.00 / 0	-13.88	n/a
50 MHz maxed:						
50.002 MHz	49.36 Qp	0.6 / 14.28 / 25.9 / 0.0	38.34	V / 1.00 / 78	-1.66	n/a
80.002 MHz	38.9 Qp	0.8 / 7.57 / 25.8 / 0.0	21.47	V / 1.00 / 78	-18.53	n/a
90.0 MHz	34.75 Qp	0.8 / 7.79 / 25.85 / 0.0	17.5	V / 1.00 / 78	-26.0	n/a
100.0 MHz	41.75 Qp	0.88 / 9.06 / 25.9 / 0.0	25.79	V / 1.00 / 78	-17.71	n/a
120.0 MHz	35.55 Qp	0.9 / 9.51 / 25.96 / 0.0	20.0	V / 1.00 / 78	-23.5	n/a
61.8 MHz (related to the Concord panel) maxed:						
61.836 MHz	44.37 Qp	0.63 / 11.37 / 25.9 / 0.0	30.47	V / 1.00 / 174	-9.53	n/a
44.986 MHz	36.3 Qp	0.6 / 15.43 / 25.9 / 0.0	26.43	V / 1.00 / 174	-13.57	n/a

Tested by: J. C. Sausen _____

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RADIATED EMISSIONS



Test Report #: 3424 Run 4 Test Area: LTS

EUT Model #: 57-875-95R Date: 7/23/04

EUT Serial #: _____ EUT Power: 60 Hz / 110 VAC Temperature: 22.0 °C

Test Method: _____ Air Pressure: 100.0 kPa

Customer: GE Security Rel. Humidity: 60.0 %

EUT Description: 319.5 MHz Super Board transceiver

Notes: EUT fully powered, but TRx in standby mode.

Data File Name: 3424.dat

Page: 2 of 4

List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC-B <1GHz 3m	DELTA2 FCC B >1GHz 3m
45.006 MHz	37.05 Qp	0.6 / 15.41 / 25.9 / 0.0	27.16	H / 1.00 / 174	-12.84	n/a
51.006 MHz	36.8 Qp	0.6 / 13.95 / 25.9 / 0.0	25.45	H / 1.00 / 174	-14.55	n/a
57.306 MHz	35.15 Qp	0.6 / 12.4 / 25.9 / 0.0	22.25	H / 1.00 / 174	-17.75	n/a
283.489 MHz	27.6 Qp	1.5 / 12.82 / 26.5 / 0.0	15.41	H / 1.00 / 174	-30.59	n/a
50.4 MHz maxed:						
50.436 MHz	38.36 Qp	0.6 / 14.16 / 25.9 / 0.0	27.22	H / 1.00 / 81	-12.78	n/a
232 MHz maxed:						
232.255 MHz	32.9 Qp	1.3 / 11.5 / 26.3 / 0.0	19.4	H / 1.16 / 81	-26.6	n/a
Moved cables to maximize emission at 50 MHz. No level changes noted.						
49.992 MHz	47.3 Qp	0.6 / 14.29 / 25.9 / 0.0	36.29	V / 1.00 / 81	-3.71	n/a
No further significant EUT emissions detected 30 MHz to 3200 MHz, vert and hor ant.						

Tested by: J. C. Sausen _____
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by: _____
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RADIATED EMISSIONS



Test Report #: 3424 Run 4 Test Area: LTS

EUT Model #: 57-875-95R Date: 7/23/04

EUT Serial #: _____ EUT Power: 60 Hz / 110 VAC Temperature: 22.0 °C

Test Method: _____ Air Pressure: 100.0 kPa

Customer: GE Security Rel. Humidity: 60.0 %

EUT Description: 319.5 MHz Super Board transceiver

Notes: EUT fully powered, but TRx in standby mode.

Data File Name: 3424.dat Page: 3 of 4

Measurement summary for limit1: FCC-B <1GHz 3m (Qp)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC-B <1GHz 3m
50.002 MHz	49.36 Qp	0.6 / 14.28 / 25.9 / 0.0	38.34	V / 1.00 / 78	-1.66
30.006 MHz	38.3 Qp	0.42 / 20.7 / 25.9 / 0.0	33.52	V / 1.00 / 0	-6.48
61.836 MHz	44.37 Qp	0.63 / 11.37 / 25.9 / 0.0	30.47	V / 1.00 / 174	-9.53
60.002 MHz	43.2 Qp	0.6 / 11.8 / 25.9 / 0.0	29.7	V / 1.00 / 0	-10.3
40.002 MHz	36.75 Qp	0.5 / 16.9 / 25.9 / 0.0	28.25	V / 1.00 / 0	-11.75
50.436 MHz	38.36 Qp	0.6 / 14.16 / 25.9 / 0.0	27.22	H / 1.00 / 81	-12.78
45.006 MHz	37.05 Qp	0.6 / 15.41 / 25.9 / 0.0	27.16	H / 1.00 / 174	-12.84
44.237 MHz	35.75 Qp	0.6 / 15.67 / 25.9 / 0.0	26.12	V / 1.00 / 0	-13.88
51.006 MHz	36.8 Qp	0.6 / 13.95 / 25.9 / 0.0	25.45	H / 1.00 / 174	-14.55
70.002 MHz	39.75 Qp	0.7 / 9.4 / 25.81 / 0.0	24.04	V / 1.00 / 0	-15.96
100.0 MHz	41.75 Qp	0.88 / 9.06 / 25.9 / 0.0	25.79	V / 1.00 / 78	-17.71
57.306 MHz	35.15 Qp	0.6 / 12.4 / 25.9 / 0.0	22.25	H / 1.00 / 174	-17.75
80.002 MHz	38.9 Qp	0.8 / 7.57 / 25.8 / 0.0	21.47	V / 1.00 / 78	-18.53
110.008 MHz	35.65 Qp	0.86 / 9.51 / 25.96 / 0.0	20.06	V / 1.00 / 0	-23.44
120.0 MHz	35.55 Qp	0.9 / 9.51 / 25.96 / 0.0	20.0	V / 1.00 / 78	-23.5
90.0 MHz	34.75 Qp	0.8 / 7.79 / 25.85 / 0.0	17.5	V / 1.00 / 78	-26.0
232.255 MHz	32.9 Qp	1.3 / 11.5 / 26.3 / 0.0	19.4	H / 1.16 / 81	-26.6
244.085 MHz	30.6 Qp	1.31 / 11.7 / 26.3 / 0.0	17.31	V / 1.00 / 0	-28.69
140.0 MHz	30.4 Qp	1.0 / 9.26 / 26.02 / 0.0	14.65	V / 1.00 / 0	-28.85
130.0 MHz	30.5 Qp	1.0 / 8.44 / 26.08 / 0.0	13.87	V / 1.00 / 0	-29.63
283.489 MHz	27.6 Qp	1.5 / 12.82 / 26.5 / 0.0	15.41	H / 1.00 / 174	-30.59

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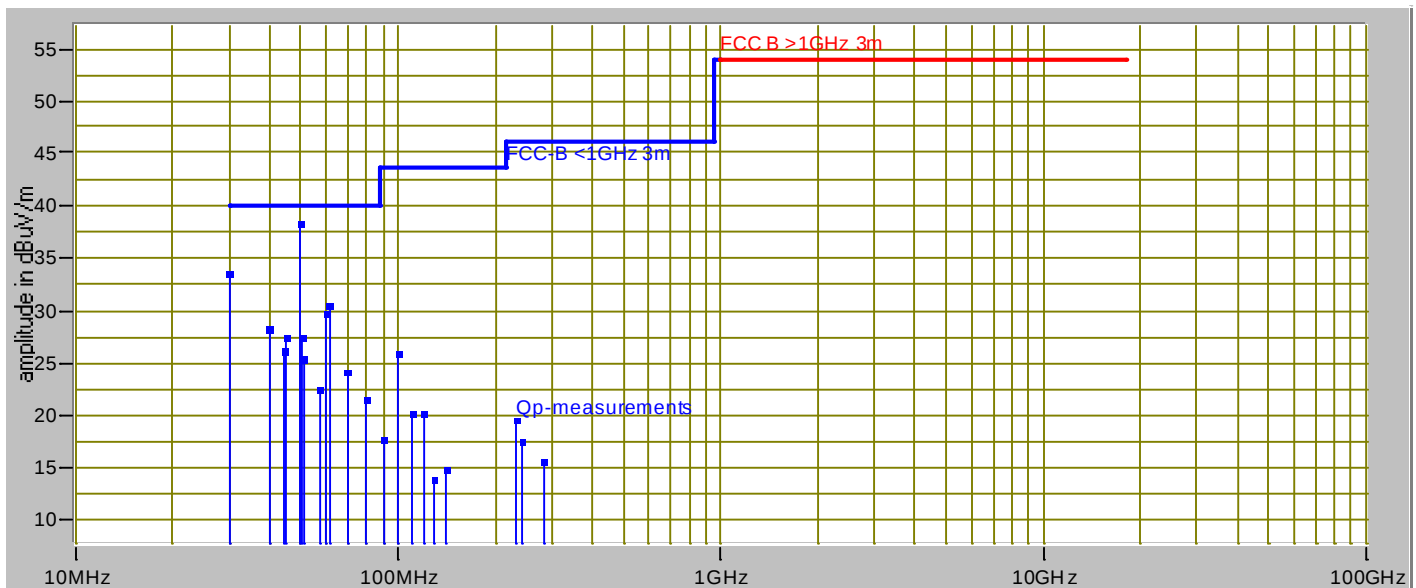
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by: _____
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RADIATED EMISSIONS



Test Report #:	3424 Run 4	Test Area:	LTS
EUT Model #:	57-875-95R	Date:	7/23/04
EUT Serial #:		EUT Power:	60 Hz / 110 VAC
Test Method:		Temperature:	22.0 °C
Customer:	GE Security	Air Pressure:	100.0 kPa
		Rel. Humidity:	60.0 %
EUT Description:	319.5 MHz Super Board transceiver		
Notes:	EUT fully powered, but TRx in standby mode.		
Data File Name:	3424.dat	Page:	4 of 4

Graph:



Tested by:	J. C. Sausen	
	Printed	Signature
Reviewed by:		
	Printed	Signature

RADIATED EMISSIONS



Test Report #: 3424 Run 3 Test Area: LTS

EUT Model #: 57-875-95R Date: 7/23/04

EUT Serial #: _____ EUT Power: 60 Hz / 110 VAC Temperature: 22.0 °C

Test Method: FCC Part 15, Subpart C, Section 15.231 Air Pressure: 100.0 kPa

Customer: GE Security Rel. Humidity: 60.0 %

EUT Description: 319.5 MHz Super Board transceiver

Notes: _____

Data File Name: _____ Page: 2 of 3

List of measurements for run #: 3

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1	DELTA2
2.876 GHz	39.85 Pk	4.63 / 31.45 / 26.26 / 0.3	49.97	V / 1.00 / 0	n/a	n/a
2.876 GHz	36.5 Pk	4.63 / 31.45 / 26.26 / 0.3	46.62	H / 1.00 / 0	n/a	n/a
3.196 GHz	38.8 Pk	4.94 / 32.21 / 26.59 / 0.4	49.76	H / 1.00 / 0	n/a	n/a
3.196 GHz	30.75 Pk	4.94 / 32.21 / 26.59 / 0.4	41.71	V / 1.00 / 0	n/a	n/a
Right Antenna:						
1.278 GHz	36.35 Pk	3.1 / 26.57 / 26.3 / 0.5	40.21	V / 1.00 / 0	n/a	n/a
1.278 GHz	36.1 Pk	3.1 / 26.57 / 26.3 / 0.5	39.96	H / 1.00 / 0	n/a	n/a
1.598 GHz	42.8 Pk	3.52 / 27.27 / 26.5 / 0.32	47.41	H / 1.00 / 0	n/a	n/a
1.598 GHz	43.0 Pk	3.52 / 27.27 / 26.5 / 0.32	47.61	V / 1.00 / 0	n/a	n/a
1.917 GHz	40.8 Pk	3.88 / 29.12 / 26.76 / 0.75	47.79	V / 1.00 / 0	n/a	n/a
1.917 GHz	39.45 Pk	3.88 / 29.12 / 26.76 / 0.75	46.44	H / 1.00 / 0	n/a	n/a
2.237 GHz	37.25 Pk	4.11 / 30.12 / 26.92 / 0.39	44.96	H / 1.00 / 0	n/a	n/a
2.237 GHz	32.0 Pk	4.11 / 30.12 / 26.92 / 0.39	39.71	V / 1.00 / 0	n/a	n/a
2.557 GHz	34.15 Pk	4.4 / 30.81 / 26.65 / 0.4	43.11	V / 1.00 / 0	n/a	n/a
2.557 GHz	33.1 Pk	4.4 / 30.81 / 26.65 / 0.4	42.06	H / 1.00 / 0	n/a	n/a
2.876 GHz	43.55 Pk	4.63 / 31.45 / 26.26 / 0.3	53.67	H / 1.00 / 0	n/a	n/a
2.876 GHz	39.4 Pk	4.63 / 31.45 / 26.26 / 0.3	49.52	V / 1.00 / 0	n/a	n/a
3.196 GHz	32.2 Pk	4.94 / 32.21 / 26.59 / 0.4	43.16	V / 1.00 / 0	n/a	n/a
3.196 GHz	39.8 Pk	4.94 / 32.21 / 26.59 / 0.4	50.76	H / 1.00 / 0	n/a	n/a

No further emissions detected 30 MHz to 3.2 GHz, vert and hor ant.

Tested by: J. C. Sausen _____
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 by: _____
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RADIATED EMISSIONS

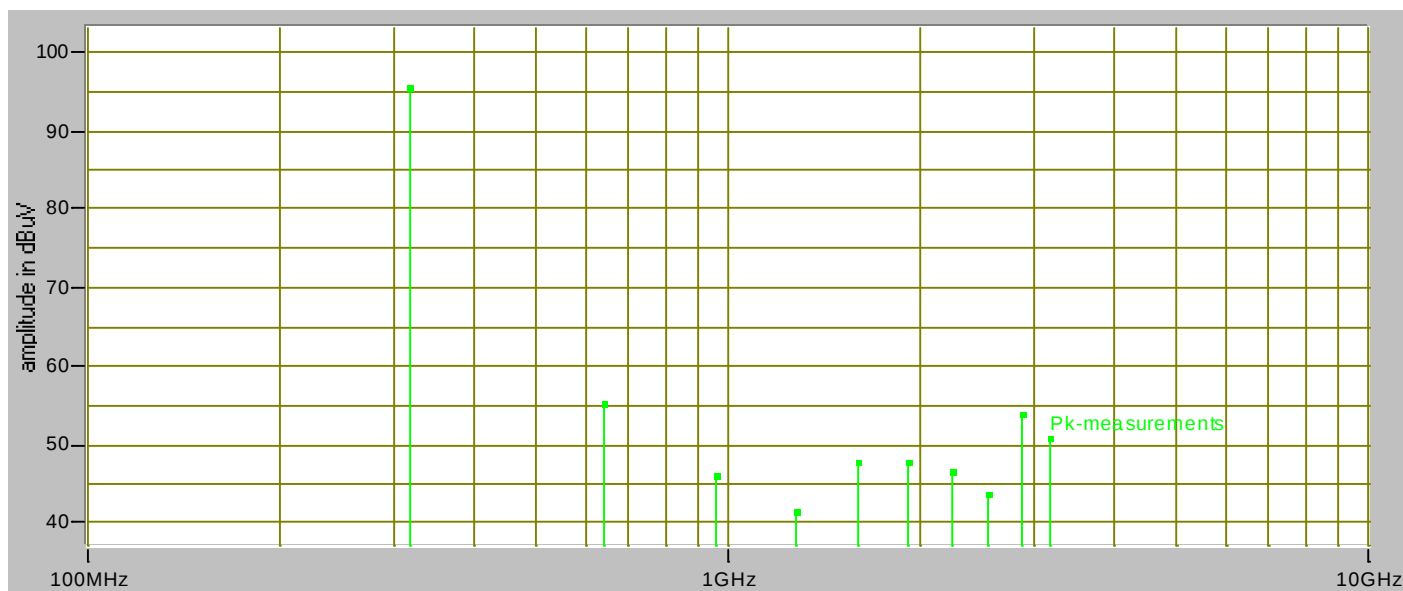


Test Report #: 3424 Run 3 Test Area: LTS
EUT Model #: 57-875-95R Date: 7/23/04
EUT Serial #: _____ EUT Power: 60 Hz / 110 VAC Temperature: 22.0 °C
Test Method: FCC Part 15, Subpart C, Section 15.231 Air Pressure: 100.0 kPa
Customer: GE Security Rel. Humidity: 60.0 %
EUT Description: 319.5 MHz Super Board transceiver

Notes: _____

Data File Name: _____ Page: **3 of 3**

Graph:



Tested by: J. C. Sausen _____
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