



KTL Dallas, Inc.

Dallas Headquarters:  
 802 N. Kealy  
 Lewisville, TX 75057  
 Tel: (972) 436-9600  
 Fax: (972) 436-2667

### Microwave Radiated Emissions

Complete  Preliminary  Page 1 of 1

Client: National Semiconductor Test #: MW-4 W.O.#: 9L0325R

EUT: Gemini (1.5) S/N: 0019300C10 Photo ID: 9L0325R MW-4

Technician: Ron Gaytan Specification: CFR 47 Part 15.247 Lab: ANC1 Date: 10/12/99

Equipment Used: G2624-677-CF31-G2023

Configuration: Web Pad operating at a fixed Frequency. Tx and Rx.

Bandwidth: 1 MHz Video Bandwidth: 1 MHz Antenna Distance 3 m Detector:

Climatic Conditions: EUT Power:  115 V.A.C.  60 Hz  Peak  
 Temperature: 23 C  208 V.A.C.  50 Hz  Average  
 Relative Humidity: 46 %  230 V.A.C.  
 Atmospheric Pressure: 998 mbar  Other  1 Phase  3 Phase

Freq. (GHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	RF Gain (dB)	Conver. Factor	Corrected Reading (dBuV/m)	Spec. Limit (dBuV/m)	Pol.	Comments:
2.44	78.5	27.6	3.1	0	0	109	N/A	V	
2.44	78.0	27.6	3.1	0	0	109	N/A	V	KTL # 677
<b>4.88</b>	<b>10.7</b>	<b>32.7</b>	<b>4.6</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>54</b>	<b>V</b>	<b>Noise Floor</b>
7.32	17	35.9	5.7	0	0	58.6	91	V	Noise Floor
9.76	18	37.4	6.9	0	0	62.3	91	V	Noise Floor
<b>12.2</b>	<b>18</b>	<b>38.5</b>	<b>8.0</b>	<b>0</b>	<b>0</b>	<b>64.5</b>	<b>54</b>	<b>V</b>	<b>Noise Floor</b>
<b>12.2</b>	<b>4</b>	<b>38.5</b>	<b>8.0</b>	<b>0</b>	<b>0</b>	<b>50.5</b>	<b>54</b>	<b>V</b>	<b>AVG. (N.F.)</b>
14.64	18	41	8.7	0	0	67.7	91	V	Noise Floor
2.44	80.3	27.6	3.1	0	0	111	N/A	H	
2.44	80	27.6	3.1	0	0	111	N/A	H	KTL # 677
<b>4.88</b>	<b>13.3</b>	<b>32.7</b>	<b>4.6</b>	<b>0</b>	<b>0</b>	<b>50.6</b>	<b>54</b>	<b>H</b>	
7.32	19	35.9	5.7	0	0	60.6	91	H	Noise Floor
9.76	19	37.4	6.9	0	0	63.3	91	H	Noise Floor
<b>12.2</b>	<b>4</b>	<b>38.5</b>	<b>8.0</b>	<b>0</b>	<b>0</b>	<b>50.5</b>	<b>54</b>	<b>H</b>	<b>AVG. (N.F.)</b>
14.64	18	41	8.7	0	0	67.7	91	H	Noise Floor
									Scanned from
									1.0 -18 GHz.
									Center Channel
									<b>(2.44 GHz)</b>



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**Microwave Radiated Emissions Data**

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Client: National Semiconductor Test #: MW-5 W.O.#: 9L0325R

EUT: Gemini (1.5) S/N: 0019300C10 Photo ID: 9L0325R MW-2

Technician: Ron Gaytan Specification: CFR 47 Part 15.247 Lab: ANC1 Date: 10/12/99

Equipment Used: G2624-677-CF31-G2023

Configuration: Web Pad operating at a fixed frequency. Tx and Rx.

Bandwidth: 1 MHz Video Bandwidth: 1 MHz Antenna Distance 1 m Detector:

Climatic Conditions: EUT Power: X 115 V.A.C. X 60 Hz X Peak  
 Temperature: 23 C     208 V.A.C.     50 Hz     Average  
 Relative Humidity: 46 %     230 V.A.C.  
 Atmospheric Pressure: 998 mbar     Other         1 Phase     3 Phase

Freq. (GHz)	Meter Reading (dBUV)	Antenna Factor (dB)	Cable Loss (dB)	RF Gain (dB)	Conver. Factor	Corrected Reading (dBUV/m)	Spec. Limit (dBUV/m)	Pol.	Comments:
2.401	94.7	27.6	3.1	0	0	125.4	N/A	V	
2.401	95	27.6	3.1	0	0	125.7	N/A	V	KTL # 677
4.802	11.6	32.7	4.6	0	0	48.9	63.5	V	
7.203	17	35.9	5.7	0	0	58.6	115.2	V	Noise Floor
9.604	18	37.4	6.9	0	0	62.3	115.2	V	Noise Floor
12.01	18	38.5	8.0	0	0	64.5	74	V	PK. (N.F.)
12.01	4	38.5	8.0	0	0	50.5	63.5	V	AVG. (N.F.)
14.406	18	41	8.7	0	0	67.7	115.2	V	Noise Floor
2.401	90	27.6	3.1	0	0	120.7	N/A	H	
2.401	89.8	27.6	3.1	0	0	120.5	N/A	H	KTL # 677
4.802	14	32.7	4.6	0	0	51.3	63.5	H	
7.203	19	35.9	5.7	0	0	60.6	115.2	H	Noise Floor
9.604	19	37.4	6.9	0	0	63.3	115.2	H	Noise Floor
12.01	4	38.5	8.0	0	0	50.5	63.5	H	AVG. (N.F.)
14.406	18	41	8.7	0	0	67.7	115.2	H	Noise Floor
									Scanned from
									1.0 -18 GHz.
									Lower Channel
									(2.401 GHz)



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Client: National Semiconductor Test #: MW-6 W.O.#: 9L0325R

EUT: Gemini (1.5) S/N: 0019300C10 Photo ID 9L0325R MW-3

Technician: Ron Gaytan Specification: CFR 47 Part 15.247 Lab: ANC1 Date: 10/13/99

Equipment Used: G2624-677-CF31-G2023

Configuration: Web Pad operating at a fixed Frequency. Tx and Rx.

Bandwidth: 1 MHz Video Bandwidth: 1 MHz Antenna Distance 1 m Detector:

Climatic Conditions: EUT Power: X 115 V.A.C. X 60 Hz X Peak  
 Temperature: 23 C     208 V.A.C.     50 Hz     Average  
 Relative Humidity: 46 %     230 V.A.C.  
 Atmospheric Pressure: 998 mbar     Other         1 Phase     3 Phase

Freq. (GHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	RF Gain (dB)	Conver. Factor	Corrected Reading (dBuV/m)	Spec. Limit (dBuV/m)	Pol.	Comments:
2.48	93.4	27.6	3.1	0	0	124.1	N/A	V	
2.48	94	27.6	3.1	0	0	124.7	N/A	V	KTL # 677
<b>4.96</b>	<b>21.2</b>	<b>32.7</b>	<b>4.6</b>	<b>0</b>	<b>0</b>	<b>58.5</b>	<b>63.5</b>	<b>V</b>	
7.44	17	35.9	5.7	0	0	58.6	104.7	V	Noise Floor
9.92	18	37.4	6.9	0	0	62.3	104.7	V	Noise Floor
<b>12.4</b>	<b>18</b>	<b>38.5</b>	<b>8.0</b>	<b>0</b>	<b>0</b>	<b>64.5</b>	<b>63.5</b>	<b>V</b>	<b>Noise Floor</b>
<b>12.4</b>	<b>4</b>	<b>38.5</b>	<b>8.0</b>	<b>0</b>	<b>0</b>	<b>50.5</b>	<b>63.5</b>	<b>V</b>	<b>AVG. (N. F.)</b>
14.88	18	41	8.7	0	0	67.7	104.7	V	Noise Floor
2.4800	91	27.6	3.1	0	0	121.7	N/A	H	
2.477	91	27.6	3.1	0	0	121.7	N/A	H	KTL # 677
<b>4.950</b>	<b>22.4</b>	<b>32.7</b>	<b>4.6</b>	<b>0</b>	<b>0</b>	<b>59.7</b>	<b>63.5</b>	<b>H</b>	
7.431	19	35.9	5.7	0	0	60.6	104.7	H	Noise Floor
9.908	19	37.4	6.9	0	0	63.3	104.7	H	Noise Floor
<b>11.975</b>	<b>4</b>	<b>38.5</b>	<b>8.0</b>	<b>0</b>	<b>0</b>	<b>50.5</b>	<b>63.5</b>	<b>H</b>	<b>AVG. (N. F.)</b>
14.37	18	41	8.7	0	0	67.7	104.7	H	Noise Floor
									Scanned from
									1.0 -18 GHz.
									High Channel
									(2.480 GHz)