

Radiated Electromagnetic Emissions



Test Report #:	3634 Run 01	Test Area:	STS 3m
Test Method:	N/A	Test Date:	24-Apr-2001
EUT Model #:	ALLEGRO CONTROL PANEL (52-785)	EUT Power:	60HZ/115VAC TRANSFORMER - 8VAC OUTPUT
EUT Serial #:		Temperature:	5.2 °C
Manufacturer:	ITI	Relative Humidity:	84 %
EUT Description:	SECURITY CONTROL PANEL	Air Pressure:	99 kPa
Notes:	HIGH POWER TRANSMIT MODE		Page: 1 of 4

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL PEAK (dBuV)	POL / HGT / AZ (m) (DEG)	FINAL AVERAGE (dBuV/m)	LIMIT FCC 15.231
ALL READINGS MAXIMIZED. 100KHZ RBW BELOW 1GHZ AND 1MHZ RBW ABOVE 1GHZ.						
319.45	102.6 Pk	3.9 / 14.0 / 28.2	92.2	V / 1.0 / 0.0	72.2	75.8
319.45	99.5 Pk	3.9 / 14.0 / 28.2	89.1	H / 1.0 / 0.0	69.1	75.8
212.94	60.8 Pk	3.1 / 10.9 / 28.0	46.8	V / 1.0 / 0.0	26.8	55.8
106.44	60.1 Pk	2.2 / 9.2 / 27.8	43.7	V / 1.0 / 0.0	23.7	55.8
425.94	64.3 Pk	4.6 / 17.0 / 28.0	57.9	V / 1.0 / 0.0	37.9	55.8
532.44	50.0 Pk	5.2 / 18.3 / 28.1	45.4	V / 1.0 / 0.0	25.4	55.8
638.94	59.6 Pk	5.7 / 19.5 / 28.1	56.8	V / 1.0 / 0.0	36.8	55.8
745.44	48.2 Pk	6.3 / 21.4 / 28.0	48.0	V / 1.0 / 0.0	28.0	55.8
851.96	36.6 Pk	6.7 / 22.4 / 27.6	38.1	H / 1.0 / 0.0	18.1	55.8
958.46	42.2 Pk	7.1 / 23.4 / 27.5	45.2	V / 1.0 / 0.0	25.2	55.8
1065.02	39.1 Pk	7.9 / 22.6 / 27.6	42.0	V / 1.0 / 0.0	22.0	54.0
1171.53	48.1 Pk	8.2 / 23.7 / 27.5	52.5	V / 1.0 / 0.0	32.5	54.0
1278.03	48.8 Pk	8.7 / 25.1 / 27.0	55.6	V / 1.0 / 0.0	35.6	55.8
1384.53	36.9 Pk	9.3 / 26.0 / 29.4	42.7	H / 1.0 / 0.0	22.7	54.0
1491.03	46.9 Pk	9.5 / 27.0 / 28.4	55.0	V / 1.0 / 0.0	35.0	54.0
1597.52	57.1 Pk	10.3 / 26.5 / 28.0	65.9	V / 1.0 / 0.0	45.9	54.0
1704.02	39.0 Pk	10.7 / 27.6 / 28.0	49.2	H / 1.0 / 0.0	29.2	54.0
1810.55	48.7 Pk	10.7 / 27.8 / 28.0	59.2	H / 1.0 / 0.0	39.2	55.8
1917.07	51.6 Pk	11.3 / 28.2 / 28.2	62.9	V / 1.0 / 0.0	42.9	55.8
2023.57	47.2 Pk	11.3 / 29.6 / 27.5	60.7	H / 1.0 / 0.0	40.7	55.8
2130.07	50.6 Pk	11.6 / 29.9 / 27.5	64.4	H / 1.0 / 0.0	44.4	55.8
2236.57	46.6 Pk	11.8 / 30.1 / 27.8	60.6	H / 1.0 / 0.0	40.6	54.0

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Test Report #:	3634 Run 01	Test Area:	STS 3m		
Test Method:	N/A	Test Date:	24-Apr-2001		
EUT Model #:	ALLEGRO CONTROL PANEL (52-785)	EUT Power:	60HZ/115VAC TRANSFORMER - 8VAC OUTPUT		
EUT Serial #:				Temperature:	5.2 °C
Manufacturer:	ITI			Relative Humidity:	84 %
EUT Description:	SECURITY CONTROL PANEL			Air Pressure:	99 kPa
Notes:	HIGH POWER TRANSMIT MODE			Page:	2 of 4

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL PEAK (dBuV)	POL / HGT / AZ (m) (DEG)	FINAL AVERAGE (dBuV/m)	LIMIT FCC 15.231
2343.07	42.0 Pk	12.0 / 30.3 / 28.0	56.2	H / 1.0 / 0.0	36.2	54.0
2449.57	45.9 Pk	12.4 / 30.5 / 27.9	60.8	H / 1.0 / 0.0	40.8	55.8
2556.07	41.3 Pk	12.8 / 30.7 / 28.7	56.1	H / 1.0 / 0.0	36.1	55.8
2662.57	36.2 Pk	13.0 / 30.8 / 28.4	51.6	H / 1.0 / 0.0	31.6	54.0
2769.07	42.9 Pk	13.2 / 31.0 / 28.6	58.5	H / 1.0 / 0.0	38.5	54.0
2875.57	40.8 Pk	13.6 / 31.1 / 28.6	56.9	H / 1.0 / 0.0	36.9	54.0
2982.07	35.9 Pk	14.0 / 31.3 / 28.2	52.9	H / 1.0 / 0.0	32.9	55.8
3088.59	44.4 Pk	14.5 / 31.5 / 28.2	62.2	H / 1.0 / 0.0	42.2	55.8
3195.09	36.6 Pk	14.8 / 31.8 / 28.2	55.0	H / 1.0 / 0.0	35.0	55.8
END OF SCAN.						

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Radiated Electromagnetic Emissions



Test Report #:	3634 Run 01	Test Area:	STS 3m		
Test Method:	N/A	Test Date:	24-Apr-2001		
EUT Model #:	ALLEGRO CONTROL PANEL (52-785)	EUT Power:	60HZ/115VAC TRANSFORMER - 8VAC OUTPUT		
EUT Serial #:		Temperature:	5.2	°C	
Manufacturer:	ITI	Relative Humidity:	84	%	
EUT Description:	SECURITY CONTROL PANEL	Air Pressure:	99	kPa	
Notes:	HIGH POWER TRANSMIT MODE	Page:	3	of 4	

FREQ	LEVEL	CABLE / ANT / PREAMP			FINAL PEAK	POL / HGT / AZ	FINAL AVERAGE	LIMIT
(MHz)	(dBuV)	(dB)	(dBm)	(dB)	(dBuV)	(m) (DEG)	(dBuV/m)	FCC 15.231

***** MEASUREMENT SUMMARY *****								
106.44	60.1 Pk	2.2 / 9.2 / 27.8	43.7	V / 1.0 / 0.0	23.7	55.8		
212.94	60.8 Pk	3.1 / 10.9 / 28.0	46.8	V / 1.0 / 0.0	26.8	55.8		
319.45	102.6 Pk	3.9 / 14.0 / 28.2	92.2	V / 1.0 / 0.0	72.2	75.8		
425.94	64.3 Pk	4.6 / 17.0 / 28.0	57.9	V / 1.0 / 0.0	37.9	55.8		
532.44	50.0 Pk	5.2 / 18.3 / 28.1	45.4	V / 1.0 / 0.0	25.4	55.8		
638.94	59.6 Pk	5.7 / 19.5 / 28.1	56.8	V / 1.0 / 0.0	36.8	55.8		
745.44	48.2 Pk	6.3 / 21.4 / 28.0	48.0	V / 1.0 / 0.0	28.0	55.8		
851.96	36.6 Pk	6.7 / 22.4 / 27.6	38.1	H / 1.0 / 0.0	18.1	55.8		
958.46	42.2 Pk	7.1 / 23.4 / 27.5	45.2	V / 1.0 / 0.0	25.2	55.8		
1065.02	39.1 Pk	7.9 / 22.6 / 27.6	42.0	V / 1.0 / 0.0	22.0	54.0		
1171.53	48.1 Pk	8.2 / 23.7 / 27.5	52.5	V / 1.0 / 0.0	32.5	54.0		
1278.03	48.8 Pk	8.7 / 25.1 / 27.0	55.6	V / 1.0 / 0.0	35.6	55.8		
1384.53	36.9 Pk	9.3 / 26.0 / 29.4	42.7	H / 1.0 / 0.0	22.7	54.0		
1491.03	46.9 Pk	9.5 / 27.0 / 28.4	55.0	V / 1.0 / 0.0	35.0	54.0		
1597.52	57.1 Pk	10.3 / 26.5 / 28.0	65.9	V / 1.0 / 0.0	45.9	54.0		
1704.02	39.0 Pk	10.7 / 27.6 / 28.0	49.2	H / 1.0 / 0.0	29.2	54.0		
1810.55	48.7 Pk	10.7 / 27.8 / 28.0	59.2	H / 1.0 / 0.0	39.2	55.8		
1917.07	51.6 Pk	11.3 / 28.2 / 28.2	62.9	V / 1.0 / 0.0	42.9	55.8		
2023.57	47.2 Pk	11.3 / 29.6 / 27.5	60.7	H / 1.0 / 0.0	40.7	55.8		
2130.07	50.6 Pk	11.6 / 29.9 / 27.5	64.4	H / 1.0 / 0.0	44.4	55.8		
2236.57	46.6 Pk	11.8 / 30.1 / 27.8	60.6	H / 1.0 / 0.0	40.6	54.0		
2343.07	42.0 Pk	12.0 / 30.3 / 28.0	56.2	H / 1.0 / 0.0	36.2	54.0		

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Radiated Electromagnetic Emissions



Test Report #:	3634 Run 01	Test Area:	STS 3m	
Test Method:	N/A	Test Date:	24-Apr-2001	
EUT Model #:	ALLEGRO CONTROL PANEL (52-785)	EUT Power:	60HZ/115VAC TRANSFORMER - 8VAC OUTPUT	
EUT Serial #:		Temperature:	5.2	°C
Manufacturer:	ITI	Relative Humidity:	84	%
EUT Description:	SECURITY CONTROL PANEL	Air Pressure:	99	kPa
Notes:	HIGH POWER TRANSMIT MODE		Page:	4 of 4

FREQ	LEVEL	CABLE / ANT / PREAMP			FINAL PEAK	POL / HGT / AZ	FINAL AVERAGE	LIMIT
(MHz)	(dBuV)	(dB)	(dBm)	(dB)	(dBuV)	(m) (DEG)	(dBuV/m)	FCC 15.231

***** MEASUREMENT SUMMARY *****						
2449.57	45.9 Pk	12.4 / 30.5 / 27.9	60.8	H / 1.0 / 0.0	40.8	55.8
2556.07	41.3 Pk	12.8 / 30.7 / 28.7	56.1	H / 1.0 / 0.0	36.1	55.8
2662.57	36.2 Pk	13.0 / 30.8 / 28.4	51.6	H / 1.0 / 0.0	31.6	54.0
2769.07	42.9 Pk	13.2 / 31.0 / 28.6	58.5	H / 1.0 / 0.0	38.5	54.0
2875.57	40.8 Pk	13.6 / 31.1 / 28.6	56.9	H / 1.0 / 0.0	36.9	54.0
2982.07	35.9 Pk	14.0 / 31.3 / 28.2	52.9	H / 1.0 / 0.0	32.9	55.8
3088.59	44.4 Pk	14.5 / 31.5 / 28.2	62.2	H / 1.0 / 0.0	42.2	55.8
3195.09	36.6 Pk	14.8 / 31.8 / 28.2	55.0	H / 1.0 / 0.0	35.0	55.8

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Radiated Electromagnetic Emissions



Test Report #: **3634 Run 02** Test Area: STS 3m
Test Method: N/A Test Date: 24-Apr-2001
EUT Model #: ALLEGRO CONTROL PANEL (52-785) EUT Power: 60HZ/115VAC TRANSFORMER - 8VAC OUTPUT
EUT Serial #: _____ Temperature: 5.2 °C
Manufacturer: ITI Relative Humidity: 84 %
EUT Description: SECURITY CONTROL PANEL Air Pressure: 99 kPa
Notes: LOW POWER TRANSMIT MODE Page: 1 of 1

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dBm) (dB)	FINAL PEAK (dBuV)	POL / HGT / AZ (m) (DEG)	FINAL AVERAGE (dBuV/m)	LIMIT FCC 15.231
MAXIMIZED.						
319.45	89.0 Pk	3.9 / 14.0 / 28.2	78.6	V / 1.0 / 0.0	58.6	75.8
319.45	92.7 Pk	3.9 / 14.0 / 28.2	82.3	H / 1.0 / 0.0	62.3	75.8
ALL HIGH POWER MODE HARMONICS ARE BELOW LOW POWER MODE LIMIT.						
END OF SCAN.						

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