

# Intertek Testing Services

## Boxborough, MA

COMPANY: Orion Research  
MODEL: TX232

TABLE: 1  
Date of Test: 01/19.1999

NOTES:

### Radiated Emissions

Frequency	Reading	Distance	Antenna	Pre-An-	Averaging	Pulse	Field	Field	Limits	
(MHz)	Margin	Factor	Factor	Gain	Factor	Desensitization	Strength	Strength	~ 3 m	(dB)
	(dBuV)	(dB)	(dB)	(dB)	(dB)	(dB)	(dBuVfm)	(uV/m)	(uVfm)	
916.000	77	0	29	16	0	0	90	31623	50000	-4
1832.900	33	0	31	22	0	0	42	122	500	-12
3666.000	33	0	38	22	0	0	48	260	500	-6
4582.500	27	0	39	22	0	0	44	155	500	-10
5499.000	27	0	42	22	0	0	47	221	500	-7

No other harmonic or spurious emissions were detected at a test distance of 0.3 meter.

Test Engineer: Vathana yen  
program: txl5 v3.1

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# Intertek Testing Services

## Radiated Emissions / Interference

Table: 2

Company: ORION  
 Model: TX232  
 Job No.: J99000641  
 Date: 01/1 9199  
 Standard: FCC 15  
 Class: B  
 Notes: Initial scan for

Group: None

Tested by: Vathana Ven  
 Location: Site 1  
 Detector: HP 8591 E  
 Antenna: EMCO BICON 1224  
 PreAmp: PREI CDI-1648  
 Cable(s): none none  
 spurious emissions Distance: 3

Signature:

Ant. Pol. (v h)	Frequency (MHZ)	Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Pre-amp Factor (dB)	Distance Factor (dB)	Net dBuV/m	Limit dBuV/m	Margin ~
V	54.03	36.9	9.4	0.0	15.9	0.0	30.4	40.0	-9.6
V	80.00	38.3	7.1	0.0	16.1	0.0	29.3	40.0	<sup>-10.7</sup>
V	121.75	36.1	7.4	0.0	16.3	0.0	27.2	43.5	-16.3
V	143.80	33.5	8.2	0.0	16.3	0.0	25.3	43.5	<sup>-18.2</sup>
H	184.40	43.3	9.9	0.0	16.4	0.0	36.8	43.5	-6.7
H	191.70	46.0	10.2	0.0	16.4	0.0	39.8	43.5	-3.7
H	202.80	45.6	10.5	0.0	16.4	0.0	39.7	43.5	<sup>-3.8</sup>
H	206.50	44.8	10.7	0.0	16.4	0.0	39.1	43.5	-4.4
H	223.60	42.0	11.5	0.0	16.4	0.0	37.1	46.0	-8.9
H	278.40	30.0	12.9	0.0	16.4	0.0	26.5	46.0	<sup>-19.5</sup>

