



FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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Project #: 00U0425-1
Report #: 000911B2
Date & Time: 09/11/00 11:11 AM
Test Engr: Thu Chan
T. C.

Company: Mattel Mount Laurel NB
EUT Description: 49MHz Transmitter (M/N: SEA ARROW)
Test Configuration: EUT only (Sample #2)
Type of Test: FCC 15.235 & 15.209
Mode of Operation: Transmitting Mode

☐ A-Site ☒ B-Site ☐ C-Site ☐ F-Site 6 Worst Data Descending

Freq.	Reading	AF	Cross	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
X-Position, Go Button:											
49.85	77.00	6.18	1.73	27.20	57.71	80.00	-22.29	3mV	90.00	1.00	P
Bandedge Measurement:											
49.81	52.00	6.20	1.73	27.20	32.73	40.00	-7.27	3mV	90.00	1.00	P
49.91	51.10	6.16	1.73	27.20	31.79	40.00	-8.21	3mV	90.00	1.00	P
X-Position, Go Button:											
49.86	60.80	7.63	1.73	27.20	42.96	80.00	-37.04	3mH	0.00	3.00	P
Bandedge Measurement:											
49.81	36.30	7.65	1.73	27.20	18.48	40.00	-21.52	3mH	0.00	3.00	P
49.91	35.20	7.61	1.73	27.20	17.34	40.00	-22.66	3mH	0.00	3.00	P
Y-Position, Go Button:											
49.86	66.20	7.63	1.73	27.20	48.36	80.00	-31.64	3mH	0.00	3.00	P
Bandedge Measurement:											
49.81	41.30	7.65	1.73	27.20	23.48	40.00	-16.52	3mH	0.00	3.00	P
49.91	41.10	7.61	1.73	27.20	23.24	40.00	-16.76	3mH	0.00	3.00	P
Y-Position, Go Button:											
49.85	63.40	6.18	1.73	27.20	44.11	80.00	-35.89	3mV	180.00	1.00	P
Bandedge Measurement:											
49.81	37.80	6.20	1.73	27.20	18.53	40.00	-21.47	3mV	180.00	1.00	P
49.91	38.30	6.16	1.73	27.20	18.99	40.00	-21.01	3mV	180.00	1.00	P
Z-Position, Go Button:											
49.86	73.30	6.18	1.73	27.20	54.01	80.00	-25.99	3mV	90.00	1.00	P
Bandedge Measurement:											
49.81	47.30	6.20	1.73	27.20	28.03	40.00	-11.97	3mV	90.00	1.00	P
49.91	47.70	6.16	1.73	27.20	28.39	40.00	-11.61	3mV	90.00	1.00	P
Z-Position, Go Button:											
49.85	77.20	7.64	1.73	27.20	59.36	80.00	-20.64	3mH	0.00	3.50	P
Bandedge Measurement:											
49.81	51.10	7.65	1.73	27.20	33.28	40.00	-6.72	3mH	0.00	3.50	P

49.91	51.10	7.61	1.73	27.20	33.24	40.00	-6.76	3mH	0.00	3.50	P
Z-Position, Back Button:											
49.96	89.00	7.59	1.73	27.20	71.12	80.00	-8.88	3mH	0.00	3.50	P
Bandedge Measurement:											
49.81	53.90	7.65	1.73	27.20	36.08	40.00	-3.92	3mH	0.00	3.50	P
49.91	53.80	7.61	1.73	27.20	35.94	40.00	-4.06	3mH	0.00	3.50	P
Z-Position, Back Button:											
49.86	87.70	6.18	1.73	27.20	68.41	80.00	-11.59	3mV	0.00	1.00	P
Bandedge Measurement:											
49.81	52.80	6.20	1.73	27.20	33.53	40.00	-6.47	3mV	0.00	1.00	P
49.91	52.60	6.16	1.73	27.20	33.29	40.00	-6.71	3mV	0.00	1.00	P
Y-Position, Back Button:											
49.86	64.60	6.18	1.73	27.20	45.31	80.00	-34.69	3mV	0.00	1.00	P
Bandedge Measurement:											
49.81	40.90	6.20	1.73	27.20	21.63	40.00	-18.37	3mV	0.00	1.00	P
49.91	41.10	6.16	1.73	27.20	21.79	40.00	-18.21	3mV	0.00	1.00	P
Y-Position, Back Button:											
49.86	66.40	7.63	1.73	27.20	48.56	80.00	-31.44	3mH	0.00	3.50	P
Bandedge Measurement											
49.81	41.20	7.65	1.73	27.20	23.38	40.00	-16.62	3mH	0.00	3.50	P
49.91	40.90	7.61	1.73	27.20	23.04	40.00	-16.96	3mH	0.00	3.50	P
X-Position, Back Button:											
49.86	57.10	7.63	1.73	27.20	39.26	80.00	-40.74	3mH	0.00	3.50	P
Bandedge Measurement:											
49.81	32.50	7.65	1.73	27.20	14.68	40.00	-25.32	3mH	0.00	3.50	P
49.91	31.90	7.61	1.73	27.20	14.04	40.00	-25.96	3mH	0.00	3.50	P
X-Position, Back Button:											
49.86	73.90	6.18	1.73	27.20	54.61	80.00	-25.39	3mV	0.00	1.00	P
Bandedge Measurement:											
49.81	48.40	6.20	1.73	27.20	29.13	40.00	-10.87	3mV	0.00	1.00	P
49.91	47.90	6.16	1.73	27.20	28.59	40.00	-11.41	3mV	0.00	1.00	P
X-Position, Left Button:											
49.86	77.90	6.18	1.73	27.20	58.61	80.00	-21.39	3mV	0.00	1.00	P
bandedge Measurement:											
49.81	52.00	6.20	1.73	27.20	32.73	40.00	-7.27	3mV	0.00	1.00	P
49.91	52.10	6.16	1.73	27.20	32.79	40.00	-7.21	3mV	0.00	1.00	P
X-Position, Fundamental Measurement:											
49.85	59.90	7.64	1.73	27.20	42.06	80.00	-37.94	3mH	0.00	3.50	P
Banded											
49.81	34.20	7.65	1.73	27.20	16.38	40.00	-23.62	3mH	0.00	3.50	P
49.91	34.50	7.61	1.73	27.20	16.64	40.00	-23.36	3mH	0.00	3.50	P
Y-Position, Left Button:											
49.85	70.70	7.64	1.73	27.20	52.86	80.00	-27.14	3mH	90.00	3.50	P
Bandedge Measurement:											
49.81	45.20	7.65	1.73	27.20	27.38	40.00	-12.62	3mH	90.00	3.50	P
49.91	45.10	7.61	1.73	27.20	27.24	40.00	-12.76	3mH	90.00	3.50	P
Y-Position, Left Button:											
49.85	67.50	6.18	1.73	27.20	48.21	80.00	-31.79	3mV	90.00	1.00	P
Bandedge Measurement:											

49.81	42.60	6.20	1.73	27.20	23.33	40.00	-16.67	3mV	90.00	1.00	P
49.91	43.70	6.16	1.73	27.20	24.39	40.00	-15.61	3mV	90.00	1.00	P
Z-Position, Left Button:											
49.85	88.50	6.18	1.73	27.20	69.21	80.00	-10.79	3mV	270.00	1.00	P
Bandedge Measurement:											
49.81	53.50	6.20	1.73	27.20	34.23	40.00	-5.77	3mV	270.00	1.00	P
49.91	53.20	6.16	1.73	27.20	33.89	40.00	-6.11	3mV	270.00	1.00	P
Z-Position, Left Button:											
49.85	91.30	7.64	1.73	27.20	73.46	80.00	-6.54	3mH	0.00	3.50	P
Bandedge Measurement:											
49.810	57.63	7.65	1.73	27.20	39.81	40.00	-0.19	3mH	0.00	3.50	P
49.910	56.97	7.61	1.73	27.20	39.11	40.00	-0.89	3mH	0.00	3.50	P
Please see Bandedge Chart attached for more detail.											
X-Position, Right Button:											
49.85	63.10	7.64	1.73	27.20	45.26	80.00	-34.74	3mH	0.00	3.50	P
Bandedge Measurement:											
49.81	36.50	7.65	1.73	27.20	18.68	40.00	-21.32	3mH	0.00	3.50	P
49.91	37.30	7.61	1.73	27.20	19.44	40.00	-20.56	3mH	0.00	3.50	P
X-Position, Right Button:											
49.85	77.80	6.18	1.73	27.20	58.51	80.00	-21.49	3mV	180.00	1.00	P
Bandedge Measurement:											
49.81	52.00	6.20	1.73	27.20	32.73	40.00	-7.27	3mV	180.00	1.00	P
49.91	51.90	6.16	1.73	27.20	32.59	40.00	-7.41	3mV	180.00	1.00	P
Y-Position, Right Button:											
49.86	65.00	6.18	1.73	27.20	45.71	80.00	-34.29	3mV	0.00	1.00	P
Bandedge Measurement:											
49.81	39.30	6.20	1.73	27.20	20.03	40.00	-19.97	3mV	0.00	1.00	P
49.91	40.00	6.16	1.73	27.20	20.69	40.00	-19.31	3mV	0.00	1.00	P
Y-Position, Right Button:											
49.85	67.80	7.64	1.73	27.20	49.96	80.00	-30.04	3mH	180.00	3.50	P
Bandedge Measurement:											
49.81	42.30	7.65	1.73	27.20	24.48	40.00	-15.52	3mH	180.00	3.50	P
49.91	42.50	7.61	1.73	27.20	24.64	40.00	-15.36	3mH	180.00	3.50	P
Z-Position, Right Button:											
49.85	76.80	7.64	1.73	27.20	58.96	80.00	-21.04	3mH	0.00	3.50	P
Bandedge Measurement:											
49.81	51.10	7.65	1.73	27.20	33.28	40.00	-6.72	3mH	0.00	3.50	P
49.91	51.30	7.61	1.73	27.20	33.44	40.00	-6.56	3mH	0.00	3.50	P
Z-Position, Right Button:											
49.85	75.20	6.18	1.73	27.20	55.91	80.00	-24.09	3mV	90.00	1.00	P
Bandedge Measurement:											
49.81	49.00	6.20	1.73	27.20	29.73	40.00	-10.27	3mV	90.00	1.00	P
49.91	49.10	6.16	1.73	27.20	29.79	40.00	-10.21	3mV	90.00	1.00	P
Z-Position, Back & Left Buttons together:											
49.85	88.70	6.18	1.73	27.20	69.41	80.00	-10.59	3mV	90.00	1.00	P
Bandedge Measurement:											
49.81	53.00	7.65	1.73	27.20	35.18	40.00	-4.82	3mH	90.00	1.00	P
49.91	53.00	7.61	1.73	27.20	35.14	40.00	-4.86	3mH	90.00	1.00	P

No other emissions were found within 15dB under the limits up to 1GHz.

Fundamental Measurement BW setting: RBW=VBW=100KHz

Bandedge Measurement BW setting: RBW=3KHz, VBW=100KHz

Total data #: 76

V.2b

