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hp OUTPUT OF MT300 @ 300W, STEREO MODE W/FM @ 15KHz & MKR Δ 28 KHz
REF -1.0 dBm #ATTEN 10 dB 38% MODULATION & PILOT @ 9% 1.43 dB

PEAK
LOG
10
dB/

NOTES:

1. V MODULATION
2. $AF = 38\% \times 75KHz =$
3. AF MEASURES AND THE OCCUPIED BANDWIDTH IS WITHIN THE FCC LIMITS.

.36VPP
28.5 KHz
28.0 KHz

MARKER Δ
28 KHz
1.43 dB

-25dBc

-35dBc

STEREO MODE AT
38% MODULATION

PILOT ONLY AT
9% MODULATION

ΔF {

VA VB
SC FC
CORR

-67.8dBc

+ -600KHz
CENTER 97.300 MHz
#RES BW 3.0 KHz
-240KHz
-120KHz
+120KHz
+240KHz
SPAN 1.000 MHz
+600KHz
#VBW 10 KHz
SWP 330 msec

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hp

OUTPUT OF MT300 @ 300W, MONAURAL MODE w/ FTA @ 15 kHz MKR Δ 68 kHz

REF -1.0 dBm #ATTEN 10 dB 85% MODULATION

11.65 dB

PEAK

LOG

10

dB/

MARKER Δ
68 kHz
11.65 dB

-25dBc

-35dBc

NOTES:

1. V MODULATION

2. $\Delta F = 85\% \times 75 \text{ kHz} =$

3. ΔF MEASURES

AND THE OCCUPIED
BANDWIDTH IS
WITHIN THE FCC
LIMITS.

.36Vpp

63.75 kHz

68 kHz

VA VB
SC FC
CORR

-67.8dBc

ΔF

CENTER 97.320 MHz

#RES BW 3.0 kHz

#VBW 10 kHz

SPAN 1.000 MHz

SWP 330 msec

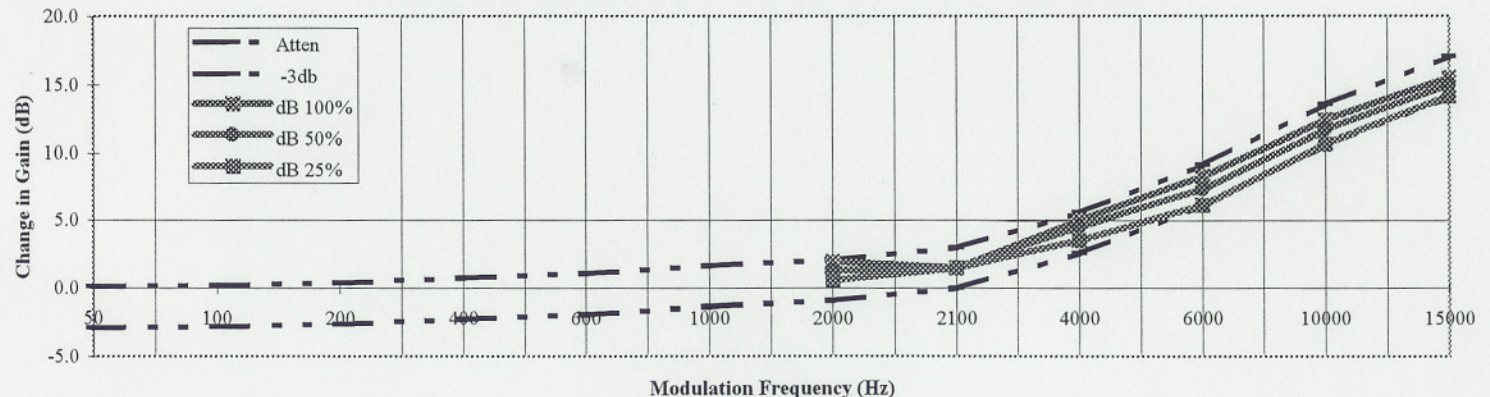
+600 kHz

AURAL FREQUENCY RESPONSE FOR MT300

FCC Limits			Data for modulation @:			Index of Modulation			Relative*		Relative*		Relative	
FM	Atten	-3db	100% 74mvpp dBc	50% 33mvpp dBc	25% 9.0mvpp dBc	100% m #	50% m #	25% m #	100% m*FM kHz	100% 100%Mod dB 100%	50% m*FM kHz	50% 50%Mod dB 50%	25% m*FM kHz	25% 25%Mod dB 25%
50	0.1	-2.9												
100	0.2	-2.8												
200	0.4	-2.6												
400	0.8	-2.2												
600	1.1	-1.9												
1000	1.7	-1.3												
2000	2.1	-0.9	5.60	10.30	21.00	1.050	0.611	0.178	2099	1.98	1222	1.28	357	0.58
2100	3.0	0.0	6.00	12.00	22.00	1.002	0.502	0.159	2105	1.50	1055	1.50	334	1.50
4000	5.6	2.6	8.10	14.56	25.54	0.787	0.374	0.106	3148	5.00	1497	4.54	423	3.56
6000	9.1	6.1	8.37	15.29	26.50	0.763	0.344	0.095	4578	8.25	2064	7.33	568	6.12
10000	13.6	10.6	8.65	15.34	26.40	0.739	0.342	0.096	7388	12.41	3420	11.72	957	10.66
15000	17.1	14.1	9.06	15.57	26.40	0.705	0.333	0.096	10571	15.52	4996	15.01	1436	14.18

Note: Tested MT300 on 1/17/03 by CEA. Results: Passed

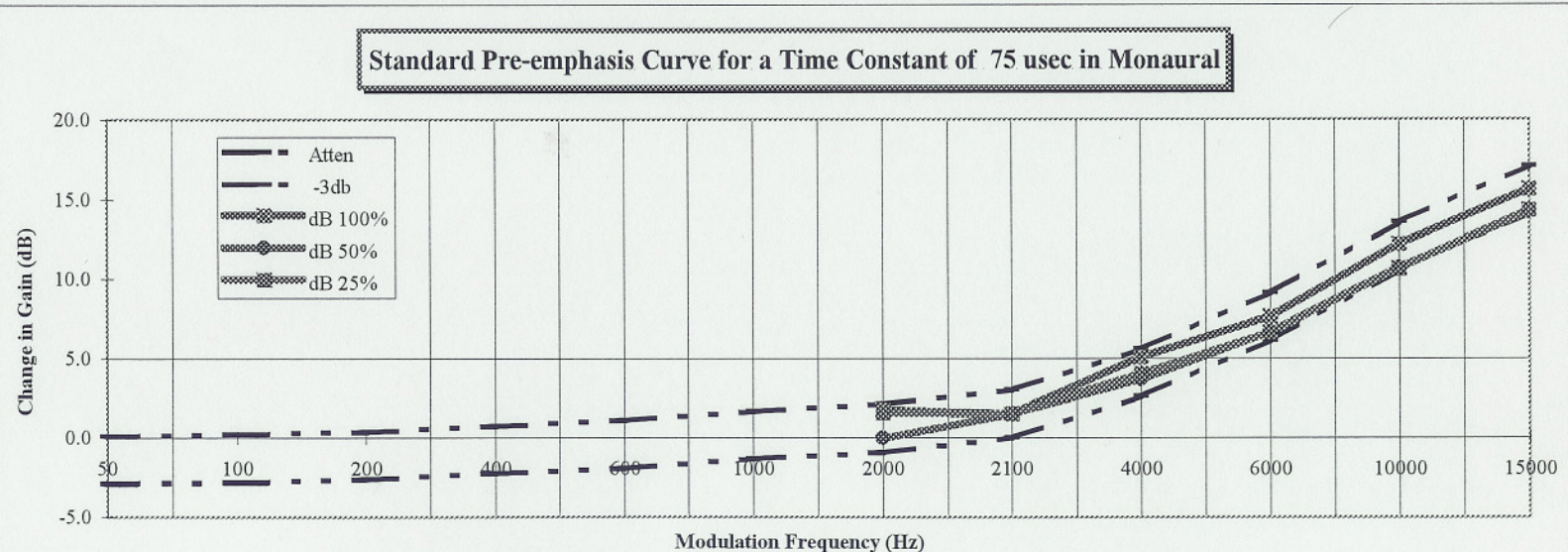
Standard Pre-emphasis Curve for a Time Constant of 75 usec in Stereo



AURAL FREQUENCY RESPONSE FOR MT300

FCC Limits			Data for modulation @:			Index of Modulation			Relative*		Relative*		Relative	
FM	Atten	-3db	100% 72mvpp dBc	50% 28mvpp dBc	25% 9.0mvpp dBc	100% m #	50% m #	25% m #	100% m*FM kHz	100% dB 100%	50% m*FM kHz	50% dB 50%	25% m*FM kHz	25% dB 25%
50	0.1	-2.9												
100	0.2	-2.8												
200	0.4	-2.6												
400	0.8	-2.2												
600	1.1	-1.9												
1000	1.7	-1.3												
2000	2.1	-0.9	5.83	11.60	20.00	1.022	0.526	0.200	2044	1.75	1052	-0.02	400	1.58
2100	3.0	0.0	6.00	12.00	22.00	1.002	0.502	0.159	2105	1.50	1055	1.50	334	1.50
4000	5.6	2.6	8.02	15.43	25.08	0.794	0.338	0.111	3178	5.08	1354	3.67	446	4.02
6000	9.1	6.1	8.98	15.95	26.01	0.711	0.319	0.100	4268	7.64	1913	6.67	601	6.61
10000	13.6	10.6	8.87	16.36	26.40	0.720	0.304	0.096	7203	12.19	3041	10.70	957	10.66
15000	17.1	14.1	8.94	16.40	26.30	0.715	0.303	0.097	10718	15.64	4541	14.18	1453	14.28

Note: Tested MT300 on 1/17/03 by CEA. Results: Passed



hp MT300 w/ MODULATION OF PILOT & SUBCARRIER @ 9% & 1%

REF 5.0 dBm #ATTEN 30 dB

MKR Δ 19.5 kHz

-14.57 dB

PEAK
LOG
10
dB/

PILOT

FCC LIMIT
-14.5-16 dBc

MARKER Δ
19.5 kHz
-14.57 dB

VA SB
SC FC
CORR

CENTER 96.7460 MHz

#RES BW 1.0 kHz

#VBW 10 kHz

SPAN 200.0 kHz

SWP 600 msec

hp

REF 5.0 dBm

#ATTEN 30 dB

MKR Δ 39.0 kHz

-35.19 dB

PEAK
LOG
10
dB/

SUBCARRIER

MARKER Δ
39.0 kHz
-35.19 dB

FCC LIMIT
>34 dBc

VA SB
SC FC
CORR

CENTER 96.7460 MHz

#RES BW 1.0 kHz

#VBW 10 kHz

SPAN 200.0 kHz

SWP 600 msec