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FM FINAL TEST TABLE - Exciter

Model:	BLUES30NV	Date:	22/05/2017
	Microprocessor-controlled FM exciter	Serial:	1701896

- 24V Clipper Card Telemetry I²C Bus Changeover
 Modem RF Relay Noaa Bias ROS 3:1 Test

Power Test					
Max power output: 30 W			Swr Max: 3 W		
Freq. MHz	Input Power		RF Module		
	Fwd	Rfl	Vpa	Ipa - I1	I2
87.50	W	W	28.7 V	2.1 A	A
90.00	W	W	28.7 V	A	A
92.00	W	W	28.7 V	A	A
94.00	W	W	28.7 V	A	A
96.00	W	W	28.7 V	A	A
98.00	W	W	28.7 V	1.7 A	A
100.00	W	W	28.7 V	A	A
102.00	W	W	28.7 V	A	A
104.00	W	W	28.7 V	A	A
106.00	W	W	28.7 V	A	A
108.00	W	W	28.7 V	1.7 A	A

Power Supply	
Model:	PS28120W1U02
ALM SN:	007-1612
Voltage:	30.0
On load:	28.7
Harmonic:	>70 dBc
Spurious:	>80 dBc
RF Module s.n.	
MRFE6VS25NR1	

AF Characteristic MPX										
Audio Freq.	40	100	400	1k	7.5k	10k	20k	43k	57k	75k
0 ± 0,3 dB	0.02	0.01	0	0	0	0	0	0.03	0.05	0.1

Audio Test (only for exciter or TX system)		Tested at: 98 MHz							Δf = 10 [-30 ÷ 30 Hz]		
Audio Freq.	50 Hz	400 Hz	1 kHz	2 kHz	5 kHz	7.5 kHz	10 kHz	15 kHz			
Preenphasy	50 μS ±0.5dB 75 μS	0 [-0.5+0.5] -0.15[-0.5+0.15]	0 [-0+0]	0.3 [-0.2+0.8] 0.7 [0.2+1.2]	1.5 [1.0+2.0] 2.8 [2.1+3.1]	5.4 [4.9+5.9] 8.0 [7.5+8.5]	8.1 [7.6+8.6] 11.1 [10.6+11.6]	10.4 [9.9+10.9] 13.8 [13.0+14.0]	13.8 [13.0+14.0] 16.9 [16.4+17.4]		
Preenphasis	dB	-0.1	0	0.3	1.4	5.4	8.3	10.2	13.1		
Distortion	%	0.04	0.03	0.02	0.02	0.04	0.05	0.02	0.02		
Separation	dB	51	59	63	66	74	72	68	61		

Freq. Test MHz	87.50	98.00	108.00	
FM S/N (>79 dB for PTX50 & 100LCD) (>83 dB for PTX30LCD)	84	83	82	
AM Async. (> 60)	71	74	75	
AM Sync. (> 50)	62	59	67	

Preenphasis:	50	μs
Mono (L):	0	dBm
Mpx (BNC):	0	dBm
Sca 1-2 ():	0	dBm

Remarks:	Software Release: APP: BLUE-000202 Standard
Options:	Configuration Table: BLU-030L-01
Customer: BROADCAST PARTNERS	Technician: Marco Funes