

Equipment under test : BREITLING EMERGENCY E56121

Ambient temperature : 23°C

Relative humidity : 48%

**TRANSMITTER FREQUENCY STABILITY vs. TEMPERATURE AND BATTERY VOLTAGE
SUBCLAUSE § 87.133**

Power level at which the measurement has been performed: 35,48 mW

TEST CONDITIONS		FREQUENCY ERROR (kHz)		
		CH 1		
$T_{nom}(23)^{\circ}C$	$V_{nom}(6,0)V$	+1,65		
$T_{min}(-10)^{\circ}C$	$V_{min}(5,1)V$	+1,28		
	$V_{max}(6,0)V$	1,50		
$T_{max}(+55)^{\circ}C$	$V_{min}(5,1)V$	+0,45		
	$V_{max}(6,0)V$	+0,65		
Maximum freq. error (kHz)		+1,65		
Measurement uncertainty		$\pm 1 \times 10^{-7}$		

Limit

SUBCLAUSE § 87.133

 Emergency locator stations $\pm 50 \times 10^{-6}$
REFERENCE NUMBER(S) OF TEST EQUIPMENT USED

(for reference numbers see test equipment listing)

01 , 02 , 05

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BANDWIDTH OF EMISSION

SUBCLAUSE 87.135

TEST CONDITIONS		OCCUPIED BANDWIDTH (kHz)		
Frequency (MHz)		121,500		
T _{nom} (23)°C	V _{nom} (6,0)V	15,17		
Measurement uncertainty		±3dB		

Class of emission : A3X

Emission designation : 3K20A3X

LIMIT

SUBCLAUSE 87.137

Occupied bandwidth shall not exceed 25 kHz

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EMISSION LIMITATIONS
SUBCLAUSE § 87.139

EMISSION LIMITATIONS					
121,500 MHz					
f (MHz)	polarization	amplitude of emission (dBm)	limit max. allowed emmission power	actual attenuation below frequency of operation (dB)	results
121,50	vertical	+15,50	40,0 dBm	-	Operating frequency
243,00	vertical	-20,40	-30 dBc	-35,90	complies
364,50	vertical	-45,70	-30 dBc	-61,20	complies
485,70	vertical	-52,00	-30 dBc	-67,50	complies
607,70	vertical	-63,20	-30 dBc	-68,70	complies
728,80	vertical	-58,20	-30 dBc	-73,70	complies
850,00	vertical	-56,30	-30 dBc	-71,80	complies
971,20	vertical	-44,20	-30 dBc	-59,70	complies
1093,5	vertical	-70,00	-30 dBc	-85,5	complies
1458,0	vertical	-65,22	-30 dBc	-80,72	complies
1944,0	vertical	-63,98	-30 dBc	79,48	complies
2065,5	vertical	-60,97	-30 dBc	76,47	complies
2673,0	vertical	-52,15	-30 dBc	-67,65	complies
2916,0	vertical	-59,59	-30 dBc	-75,09	complies
Measurement uncertainty		± 3dB			

LIMITS
SUBCLAUSE § 87.139

For ELTs :

When the frequency is moved from the assigned frequency by more then 50 percent up to and including 100 percent of the authorized bandwidth the attenuation must be at least 25 dB.

When the frequency is removed from the assigned frequency by more then 100 percent of the authorized bandwidth the attenuation must be at least 30 dB.

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MODULATION REQUIREMENTS

SUBCLAUSE 87.141(i)

TEST CONDITIONS		SUPPREST CARRIER (%)		
Frequency (MHz)		121,500		
T _{nom} (23)°C	V _{nom} (6,0)V	32,0 %		
Measurement uncertainty		±0,5dB		

Class of emission : A3X

Emission designation : 3K20A3X

LIMIT

SUBCLAUSE 87.141(i)

PARTLY SUPPREST CARRIER : min 30 percent

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