

Bio-Rad  
7 rue de Madrid  
67300 Schiltigheim  
France

To: Curtis-Straus LLC  
Certification Department  
527 Great Road  
Littleton, MA 01460

### Limited Modular approval letter

Dear application examiner,

BIO-RAD LABORATORIES, would like to have your authorization as a (Limited) modular approval on the DTE4027 module, with FCC ID: 2ABUUDTE4027 and IC: 11658A-DTE4027. The requirements of CFR 47 part 15.212 and RSS-Gen part 7.1.1 & 7.1.2 have been checked and shown in the following statement,

Modular transmitter requirement	Yes	No	Comment
(i) The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.		X	The 2ABUUDTE4027 and 11658A-DTE4027 module will only be installed in BIO RAD end products. Some control measurements are performed on one of each kind of host equipment to ensure the compliance for both intentional and unintentional emission requirements.
(ii) The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	X		
(iii) The modular transmitter must have its own power supply regulation.		X	The equipment has no power supply regulation, but a regulation is made by the motherboard of the host equipment from BIO-RAD.
(iv) The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). The "professional installation" provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	X		The antenna is integrated to the PCB module.
(v) The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing for compliance with Part 15 requirements....	X		
(vi) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.  If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the	X		

module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: 2ABUUDTE4027 " or "Contains FCC ID: 2ABUUDTE4027 ." The exact wording is not specified in our Rules (since modules are not specifically addressed), so you may use similar wording which expresses the same meaning.			
(vii) The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.	X		
(viii) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	X		

Additionally, BIO-RAD LABORATORIES ask for that the following instruction should appear as a note on the final FCC Grant:

- In the final equipment, the maximum collocated transmitter modules should not be over 48.

Best regards,



André Dibling  
QA Manager  
Bio-Rad  
Site de Schiltigheim/France



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