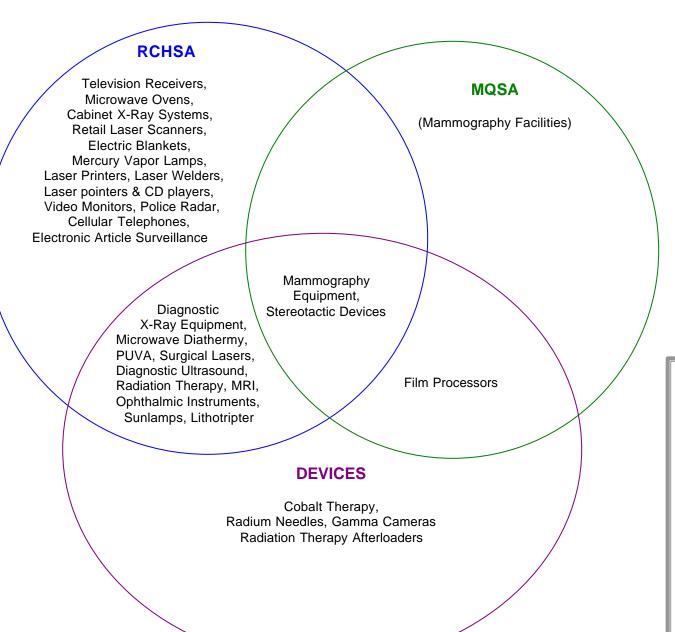
Examples of Radiation-Emitting Electronic Products

Radiation	lonizing	Optical	RF, Microwave,	Acoustic
Radiation			*	
Use	(x-ray)	(visible, UV, IR, laser)	VLF/ELF, magnetic	(sonic, ultrasonic)
Medical: Diagnostic	 General radiography Dental radiography Fluoroscopy Computed tomography Mammography 	Slit lamp Retinal acuity Fluorescence spectroscopy Transilluminator	Magnetic resonance imaging	Ultrasonography Doppler ultrasound Color doppler ultrasound
Medical: Therapeutic	Medical accelerator (Rad therapy)	 Wound healing Low-level laser therapy PUVA therapy 	 Hyperthermia Diathermy Bone healing Wound healing Prostate therapy 	 Hyperthermia Diathermy/physical therapy Bone healing Lithotripsy
Medical: Surgical	Intra-operative electron beam	Surgical laserOphthalmic, PRK laserDental laser	Electrocautery	PhacoemulsifierNeedle guide
Medical: Other	Bone density measurement Cabinet x-ray Veterinary imaging	Germicide lamps Dental resin curing Operating lights Patient positioning X-Ray indicator light field	Blood warmers (microwave) Sterilizer (plasma) Telemetry	Bone density measuring Geriatric bath (ultrasound) Hearing aid
Scientific, Other	Analytical x-rayOscilloscope	 Research lasers UV/IR research, uses 	Many scientific usesNuclear magnetic resonanceWeather doppler	Many scientific uses
Industrial	Cabinet x-ray Industrial x-ray Check weld/metal integrity	Ranging & detection Alignment, surveying Laser welder Laser material processing Process control/ machine vision UV curing	Dielectric heater, sealer Food processing Dryer Air traffic control	Nondestructive tests Gauging Detect motion/occupancy Cleaner Welder
Business, Commercial, Security	 People (contraband) scanner Baggage x-ray 	Suntan parlors Fluorescent lamp IR detector or security Fiberoptic communication Reprographics Mercury vapor lamp UPC readers Laser pointer IR data transmit/control	Police radar Pest controllers EAS, metal detector Security system (microwave) Walkie-talkie Clothes dryer Communication Microwave LAN RF-excited lighting	Jewelry cleaners Motion detector Security system Humidifier
Consumer (household, entertainment, sports)	 Television receiver Video monitor Night vision scope 	 Halogen lamp Laser light shows Laser printer Suntan bed, lamps CD and CD-ROM player Laser toys/novelties Laser gunsight Remote controller Autofocus camera Digital display/monitor 	 Cellular telephone Microwave oven Electric blanket CB/amateur radio Intrusion/anti-theft Remote controller Video monitor 	 Ultrasonic toothbrush Pest repeller Intrusion alarm/security Audio system/radio Massager Humidifier Autofocus camera Telephone ringer

Overlap of FDA Enforcement Authorities for Radiation-Emitting Products

(with examples of products)



RCHSA =

Radiation Control for Health and Safety Act of 1968 (now incorporated in the Federal Food, Drug, and Cosmetic Act as Chapter V, Subchapter 3, Electronic Product Radiation Control)

MQSA =

Mammography Quality Standards Act of 1992

Devices =

Federal Food, Drug, and Cosmetic Act, Chapter V, Medical Devices