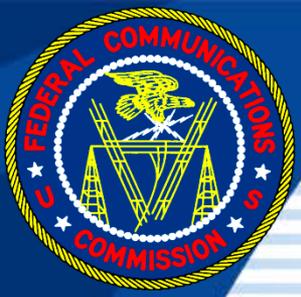


FCC Licensed Equipment Approvals

May 3, 2017



Agenda

- 600 MHz Band
- Wireless Microphones
- Non-US Bands
- ANSI C63.26
- HAC
- Part 96
- Licensed Service Rules Updates
- Signal Boosters
- Part 80/87



600 MHz Band

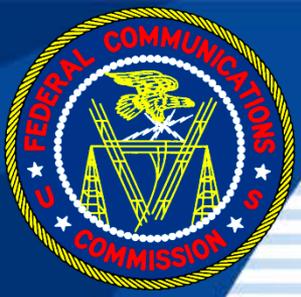


600 MHz Band

- **Incentive Auction Closing and Channel Reassignment Public Notice, April 13, 2017**
 - April 13, 2017 marks start of the 39-month post auction transition period
 - Technical rules for devices operating in the 600 MHz service band are effective now under Part 27
 - Band Plan comprised of uplink (663-698 MHz) and downlink (617-652 MHz), 3GPP Band 71

Figure 1: 600 MHz Band Plan²²

UHF Band	RAS/WMTS	G. B.	600 MHz Band Downlink							Duplex Gap	600 MHz Band Uplink							700 MHz UL
35	36	37	A	B	C	D	E	F	G	11	A	B	C	D	E	F	G	
		614 MHz	617 MHz							652 MHz	663 MHz						698 MHz	



Wireless Microphones UPDATE



Wireless Microphones - Unlicensed

- **§15.236 Operation of wireless microphones in TV Bands and 600 MHz service band**
 - Applications for certification filed beginning **December 26, 2017** must comply with requirements of §15.236.
 - A wireless microphone that is certified to operate in any portion of the 600 MHz service band may no longer be marketed or operated after **July 13, 2020**
 - Disclosure Requirement of Rule Part 15.37(k); **July 13, 2017**
 - Post incentive auction 600 MHz operation limited to:
 - Upper 6 MHz of the 600 MHz duplex gap **657-663 MHz**
 - 600 MHz guard band between TV band and 600 MHz downlink, excluding upper 1 MHz **614-616 MHz**



Wireless Microphones - Licensed

- **§74H Low power auxiliary stations (LPAS)**
 - Effective **January 13, 2018** applications for certification shall no longer be accepted for LPAS devices capable of operating in the 600 MHz service band
 - 600 MHz duplex gap operations limited to the 4 MHz segment from 1-5 MHz above the lower edge and 20 mW EIRP **653-657 MHz**
 - Disclosure Requirement of Rule Part 74.851(I) **July 13, 2017**



Items Under Reconsideration

- Spurious Emission Limits
- Output Power Measurement
- Output Power Levels Guard Bands and Duplex Gap
- 169-172 MHz Band – Channelization Plan
- 1435-1525 MHz Band – Spectrum Availability
- 941.5-944 MHz Band – Coordination with Federal Operations



Wireless Microphones

Summary of affected bands

<i>Frequency Band</i>	<i>Unlicensed</i>		<i>Licensed</i>	
	<i>Rule Part</i>	<i>Output Power</i>	<i>Rule Part</i>	<i>Output Power</i>
26.1 - 26.48 MHz (VHF)			74H	1 Watt
54-72 MHz (VHF)(TV Band Ch 2-4), 76-88 MHz (VHF)(TV Band Ch 5-8)	15.236	50 mW EIRP	74H	50 mW EIRP
161.625 - 161.775 MHz (VHF)			74H	1 Watt
169-172 MHz (VHF)			90.265	50 mW
174-216 MHz (VHF)(TV Band Ch 7-13)	15.236	50 mW EIRP	74H	50 mW EIRP
450-451 MHz (UHF), 455-456 MHz			74H	1 Watt
470-608 MHz (UHF)(TV Band Ch 14-36)	15.236	50 mW EIRP	74H	250 mW
614-616 MHz (guard band)	15.236	20 mw EIRP		
653-657 MHz (duplex gap)			74H	20 mw EIRP
657-663 MHz (duplex gap)	15.236	20 mw EIRP		
941.5-944, 944 - 952.0 MHz, 952.850 - 956.250 MHz, 956.450 - 959.85 MHz, 6875 - 6900 MHz, 7100 - 7125 MHz			74H	1 Watt
1435 - 1525 MHz			74H	250 mW