APPENDIX D. EMISSION DATA FOR ULTRAWIDEBAND TRANSMITTERS

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This appendix contains measured emission spectra and time waveforms for five ultrawideband transmitters, and also for a Part 15 device (specifically, an electric drill). Measurement techniques are described in Sections 5 and 6. Analysis and commentary are provided in Section 8.

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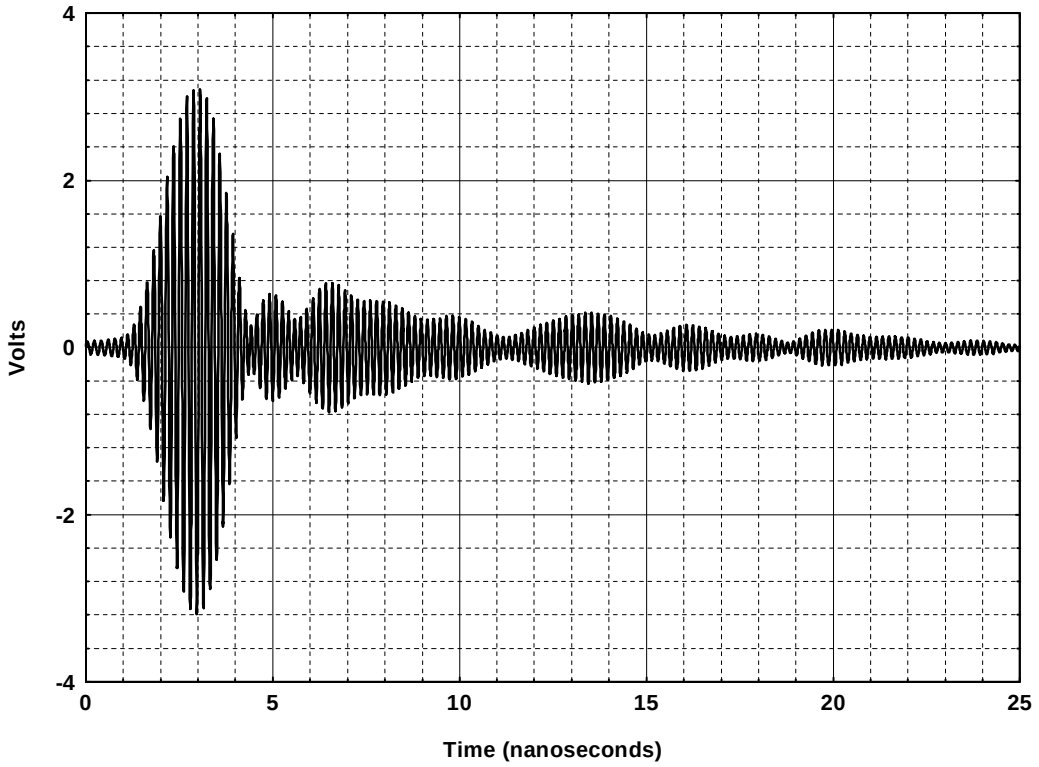

Figure D.A.1. Device A, conducted time-domain waveform.

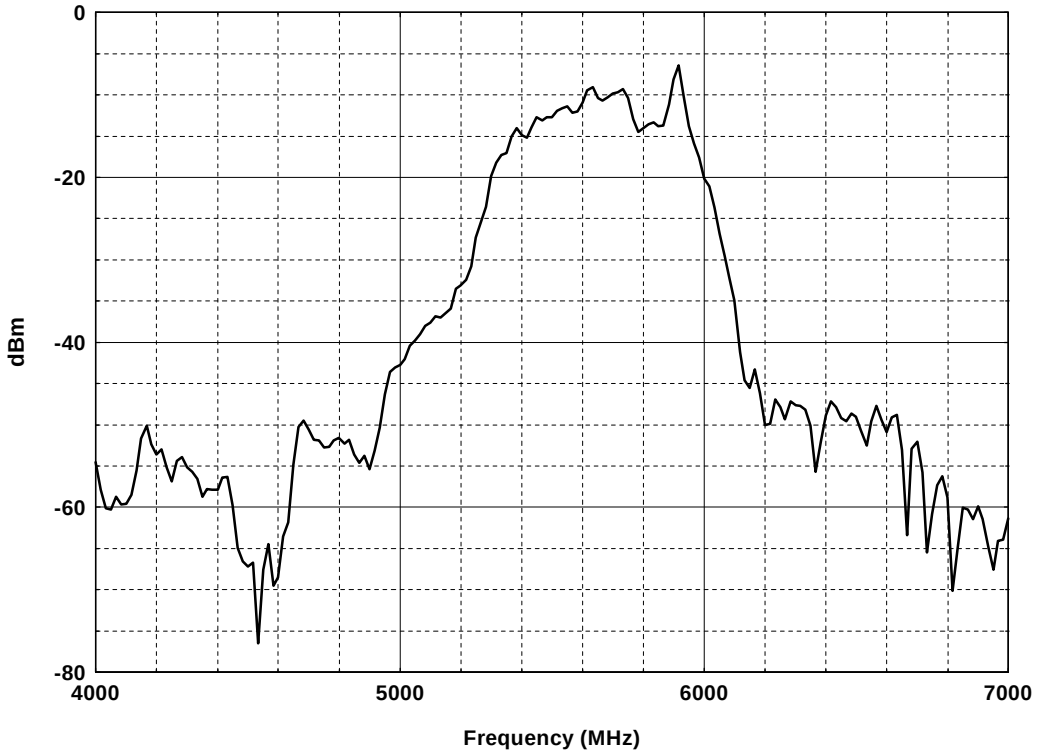

Figure D.A.2. Device A, conducted power spectrum,) f = 16.67 MHz.

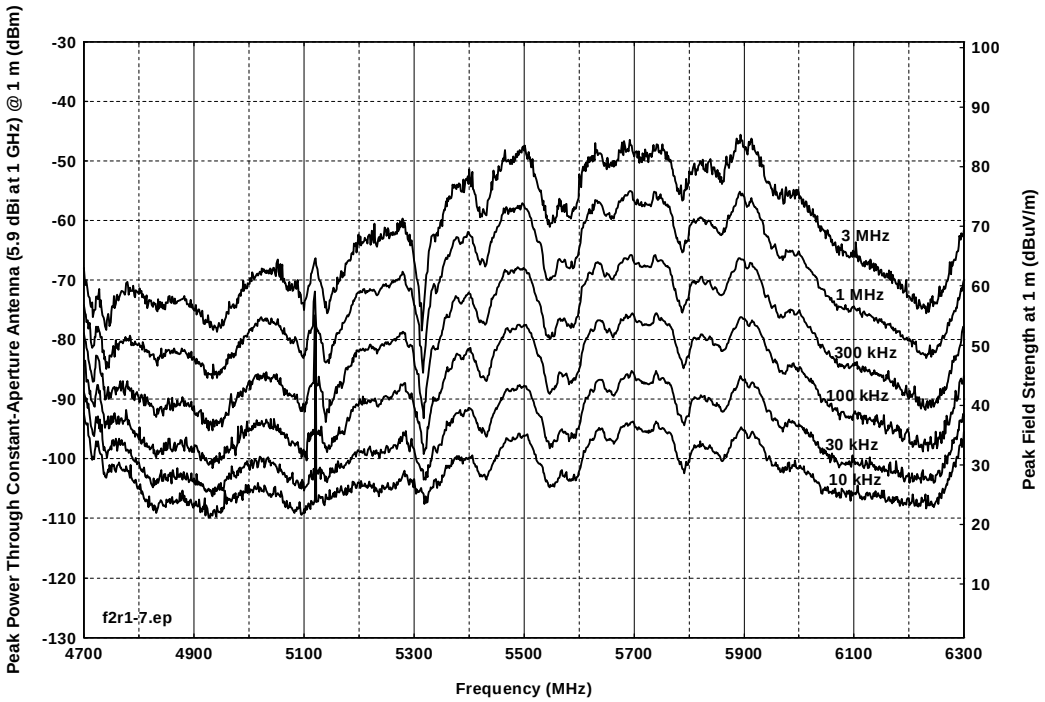

Figure D.A.3. Device A, spectra as a function of measurement bandwidth.

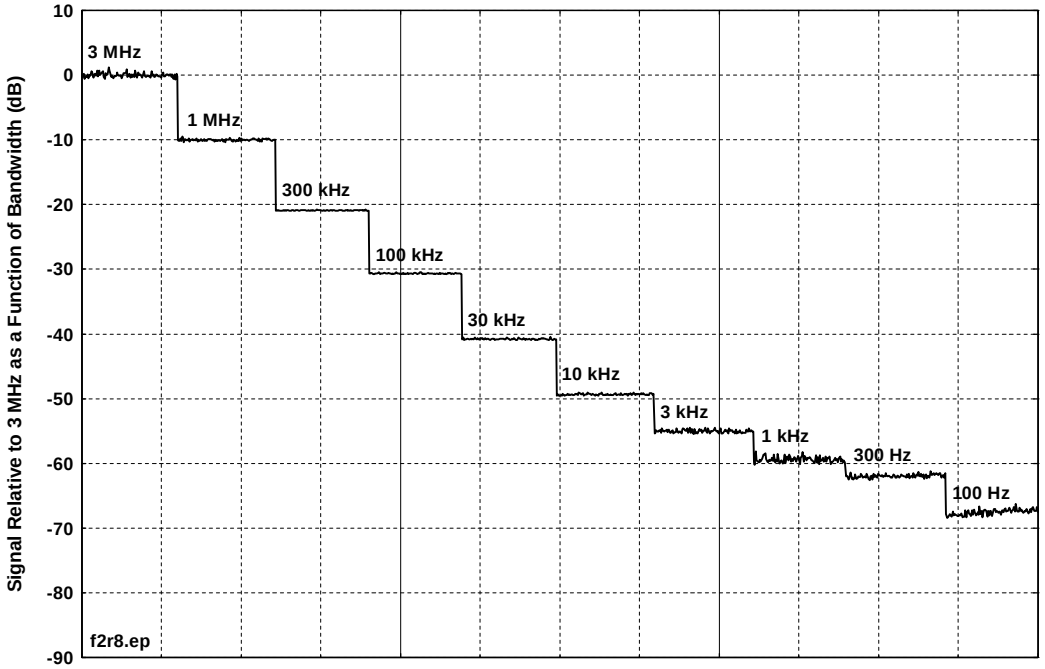

Figure D.A.4. Device A, peak signal level as a function of bandwidth.

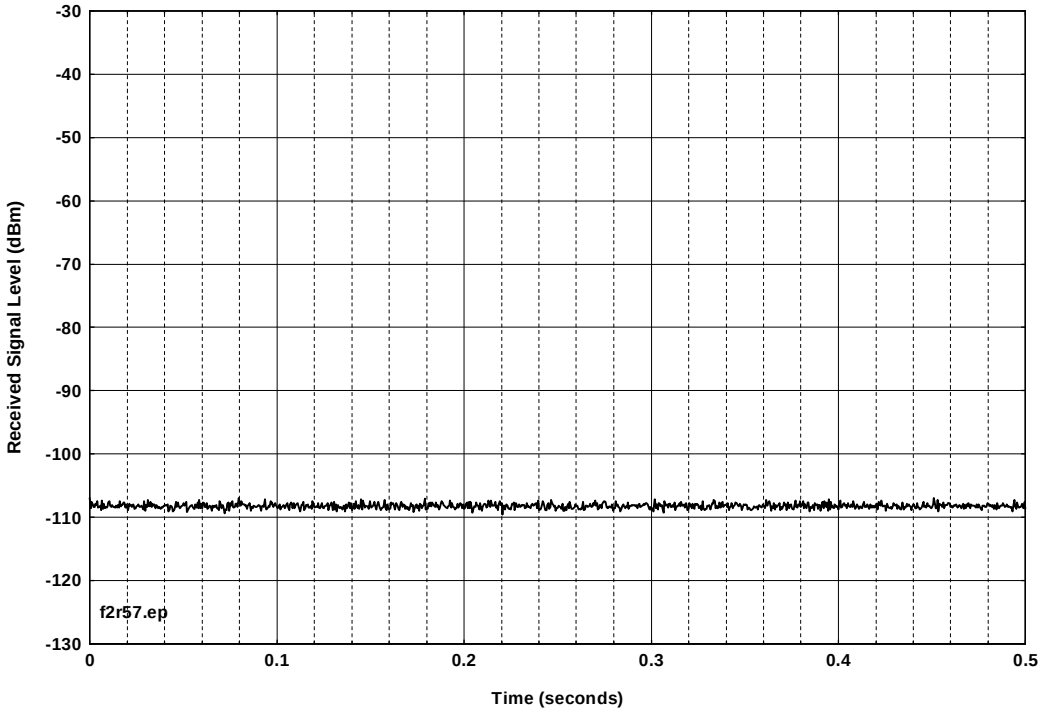

Figure D.A.5. Device A, emission in 10-kHz video bandwidth.

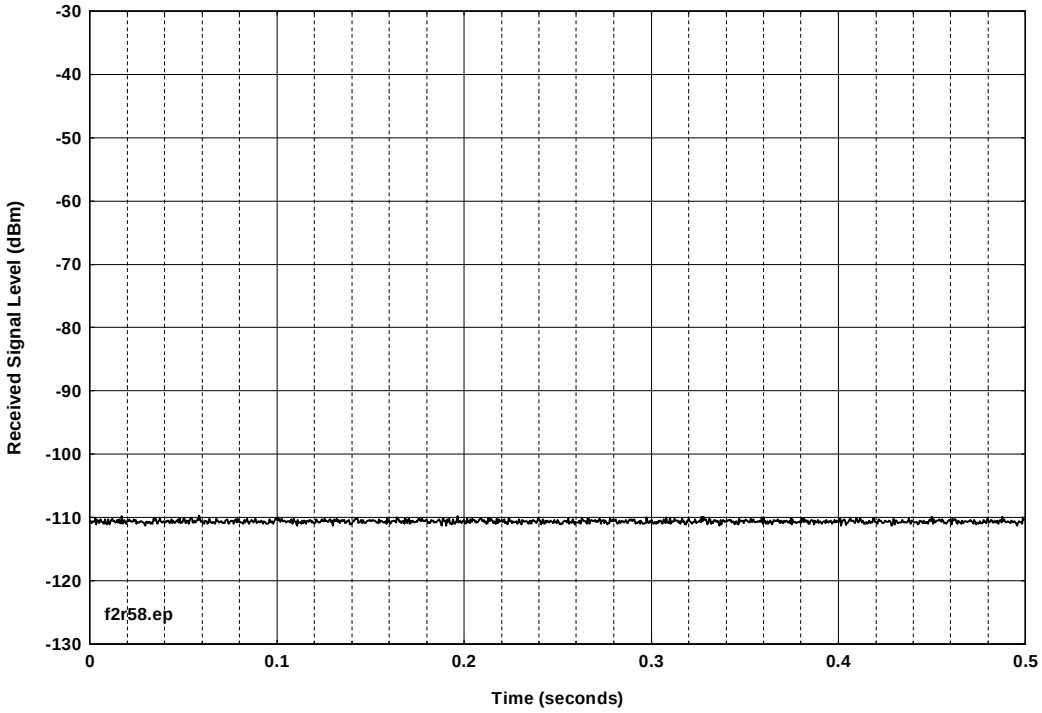

Figure D.A.6. Device A, emission in 3-kHz video bandwidth.

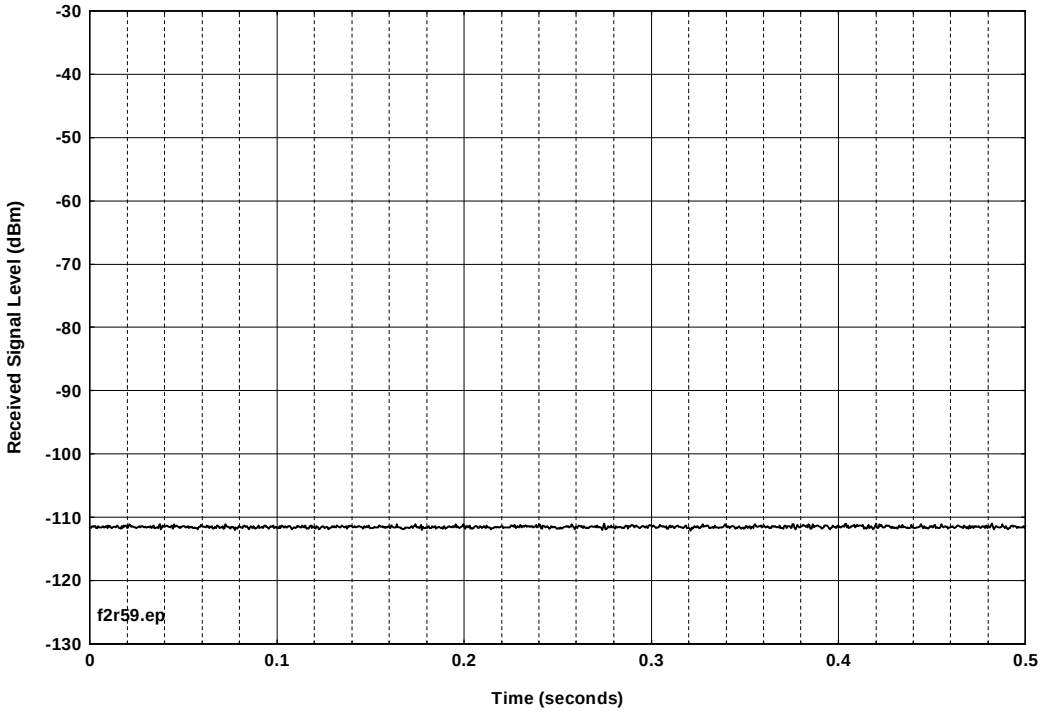

Figure D.A.7. Device A, emission in 1-kHz video bandwidth.

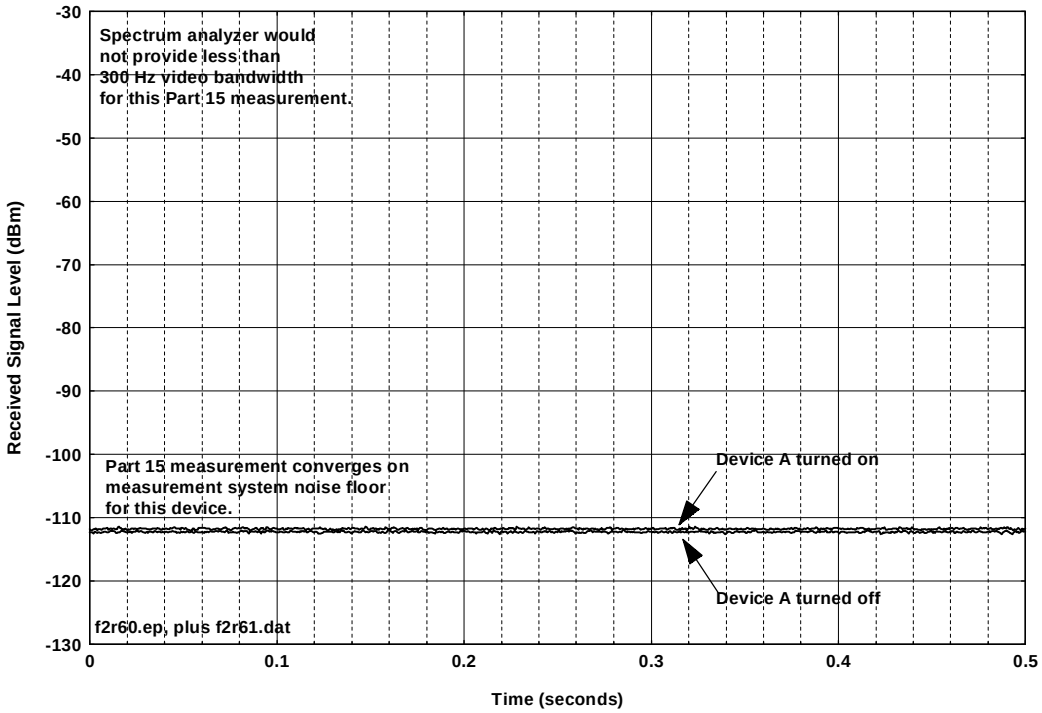

Figure D.A.8. Device A, emission in 300-Hz video bandwidth: converges on measurement system noise floor.

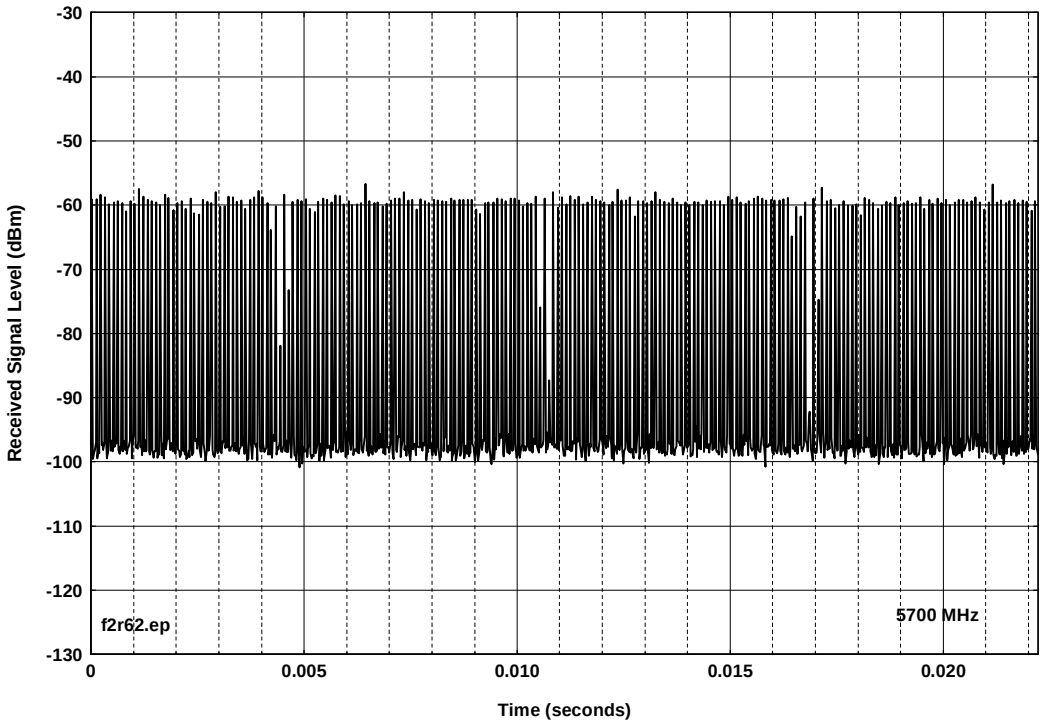

Figure D.A.9. Device A, peak emission in 3-MHz IF bandwidth.

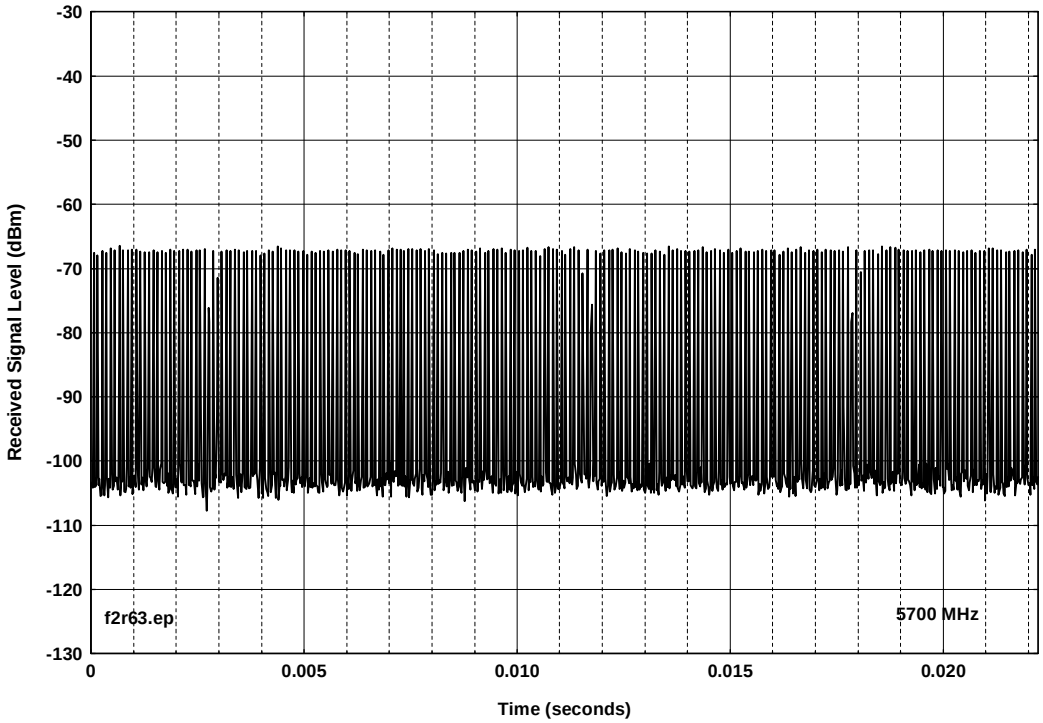

Figure D.A.10 Device A, peak emission in 1-MHz IF bandwidth.

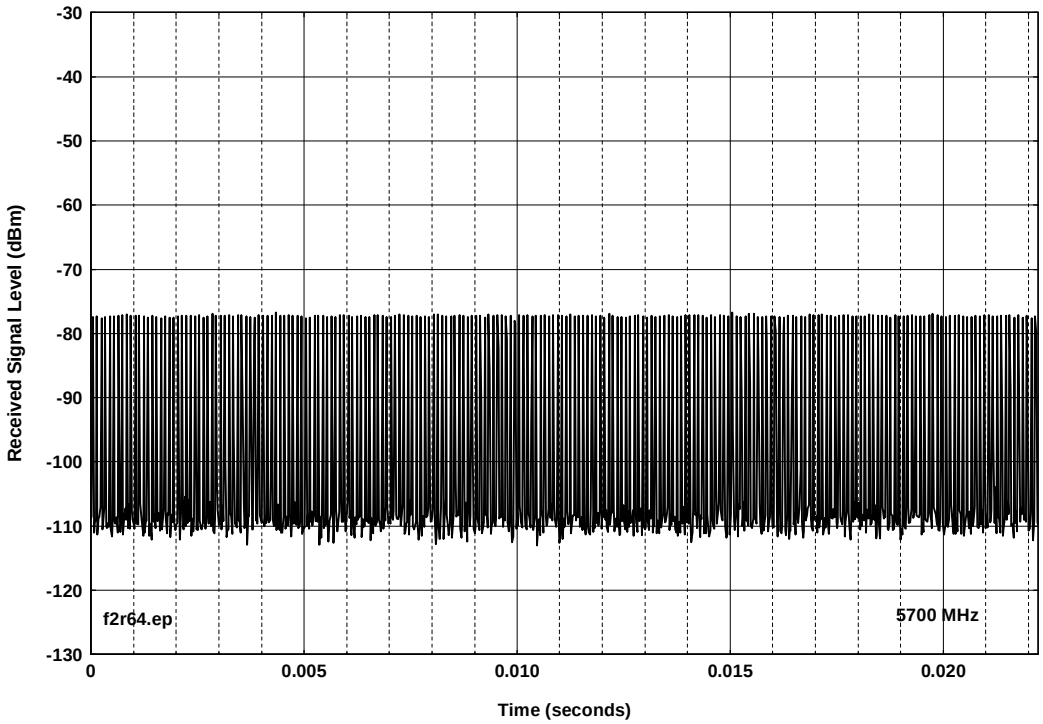

Figure D.A.11. Device A, peak emission in 300-kHz IF bandwidth.

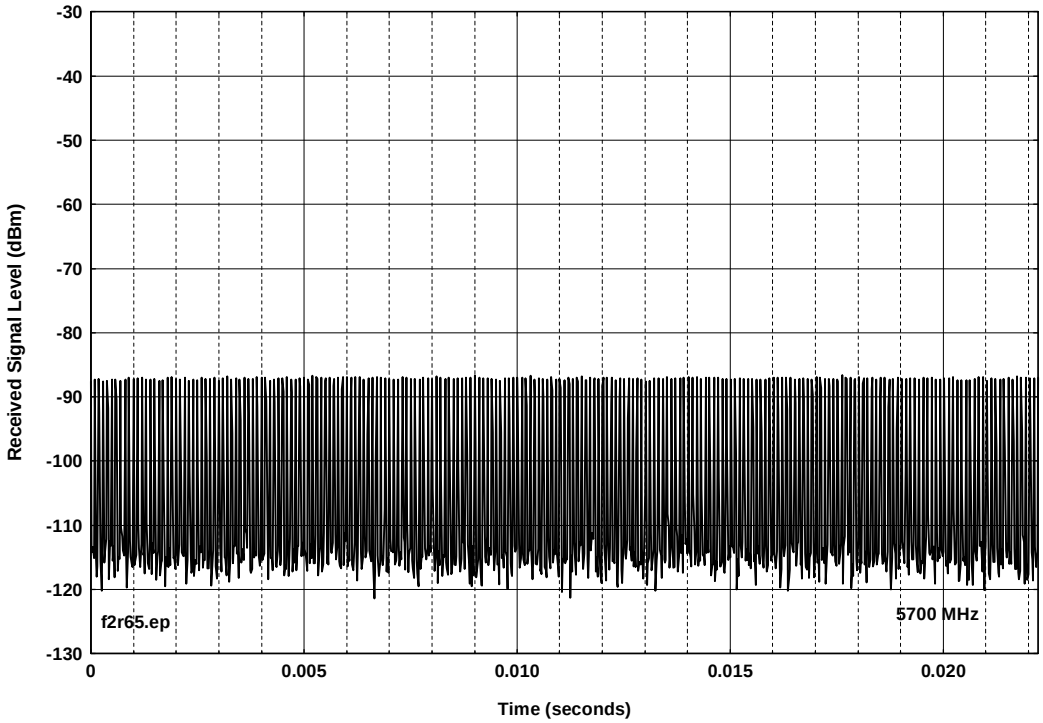

Figure D.A.12. Device A, peak emission in 100-kHz IF bandwidth.

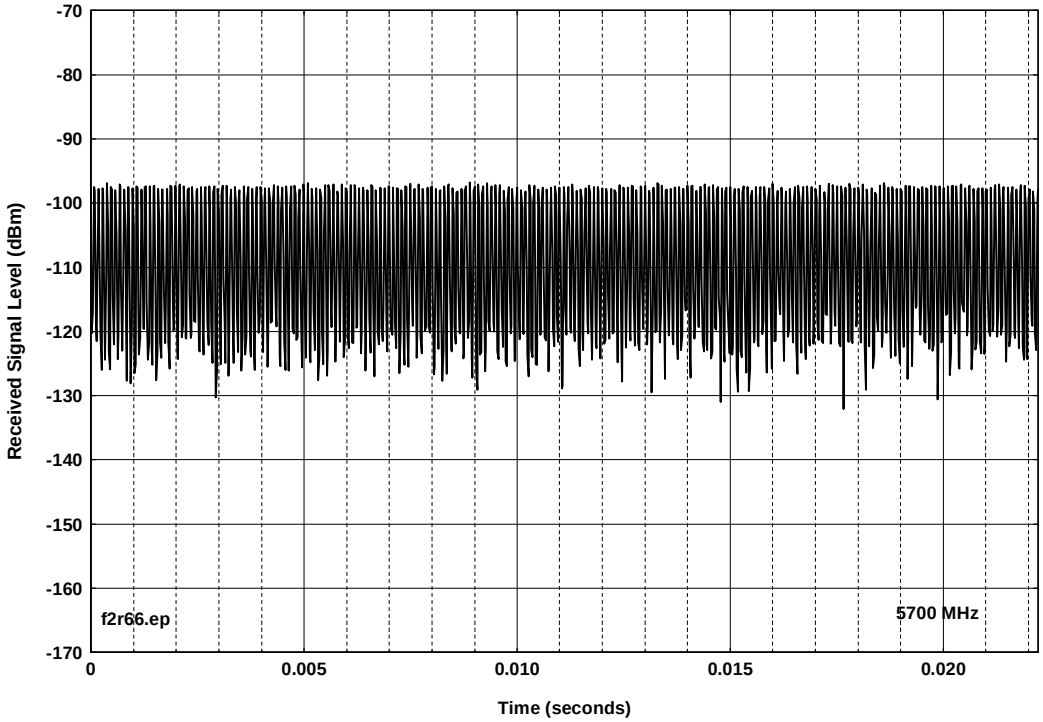

Figure D.A.13. Device A, peak emission in 30-kHz IF bandwidth.

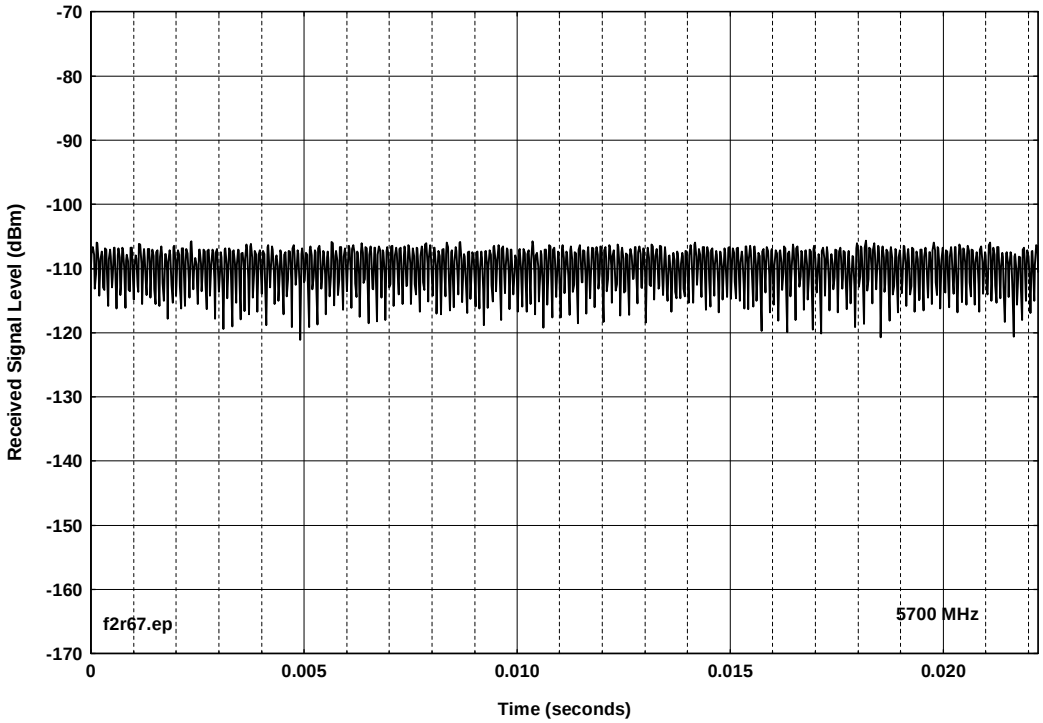

Figure D.A.14. Device A, peak emission in 10-kHz IF bandwidth.

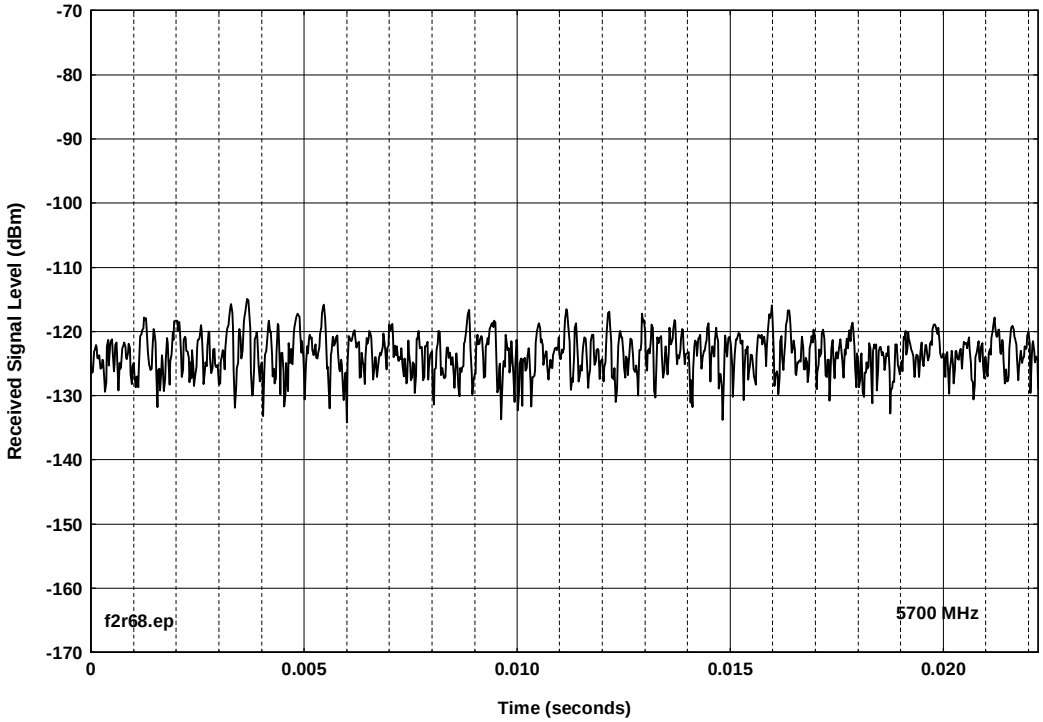

Figure D.A.15. Device A, peak emission in 3-kHz IF bandwidth.

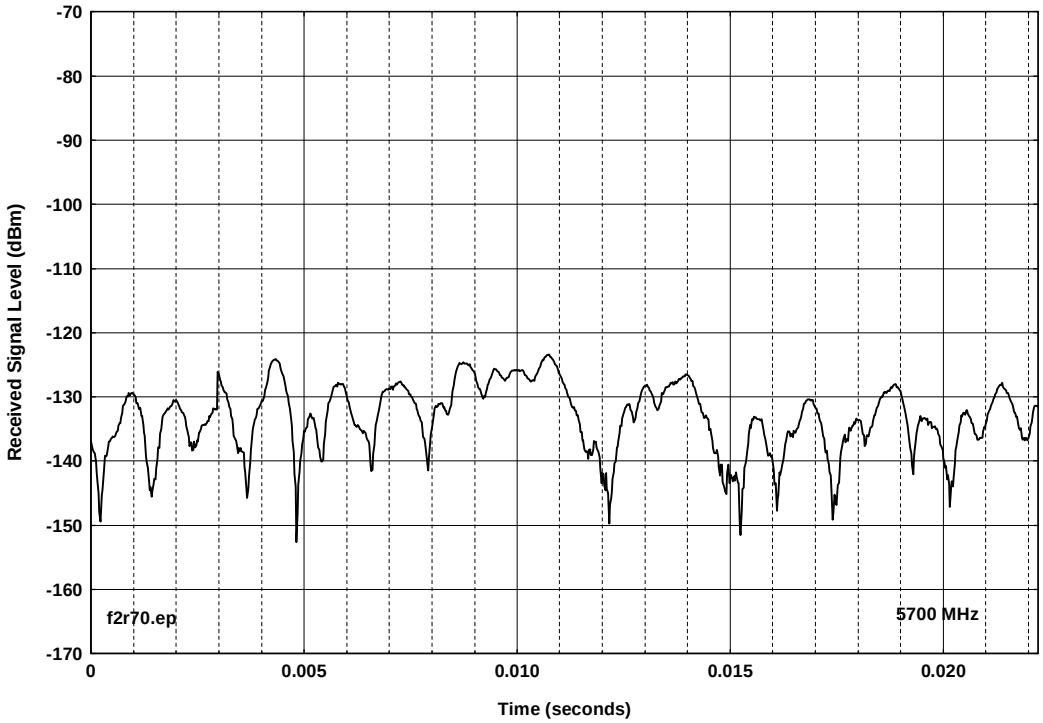

Figure D.A.16. Device A, peak emission in 1-kHz IF bandwidth.

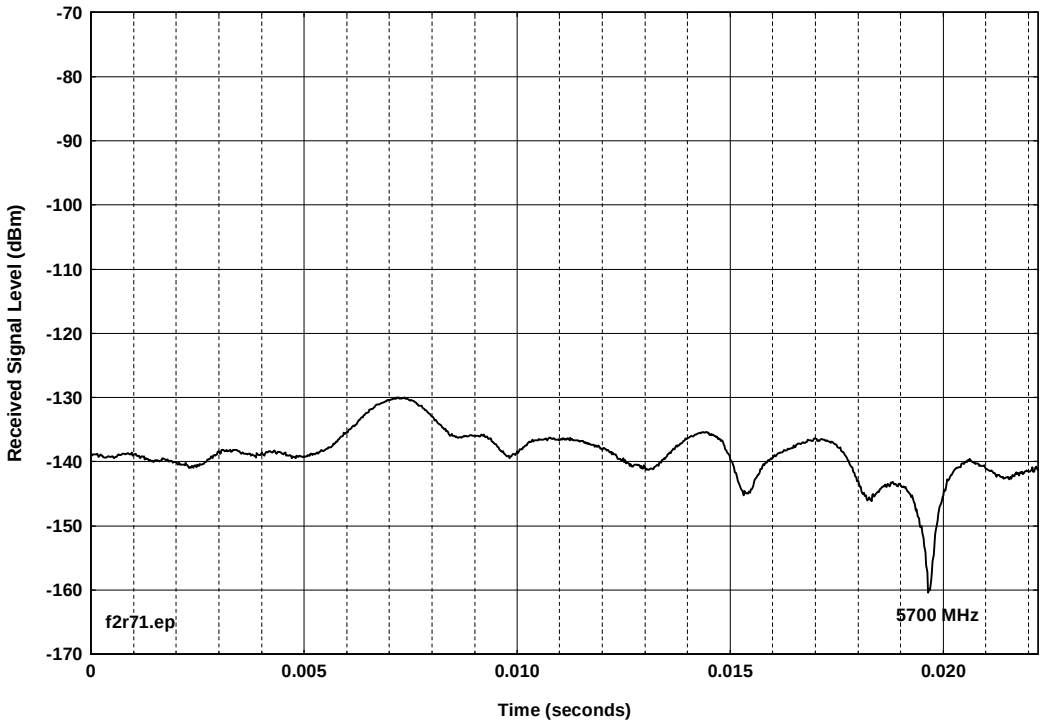

Figure D.A.17. Device A, peak emission in 300-Hz IF bandwidth.

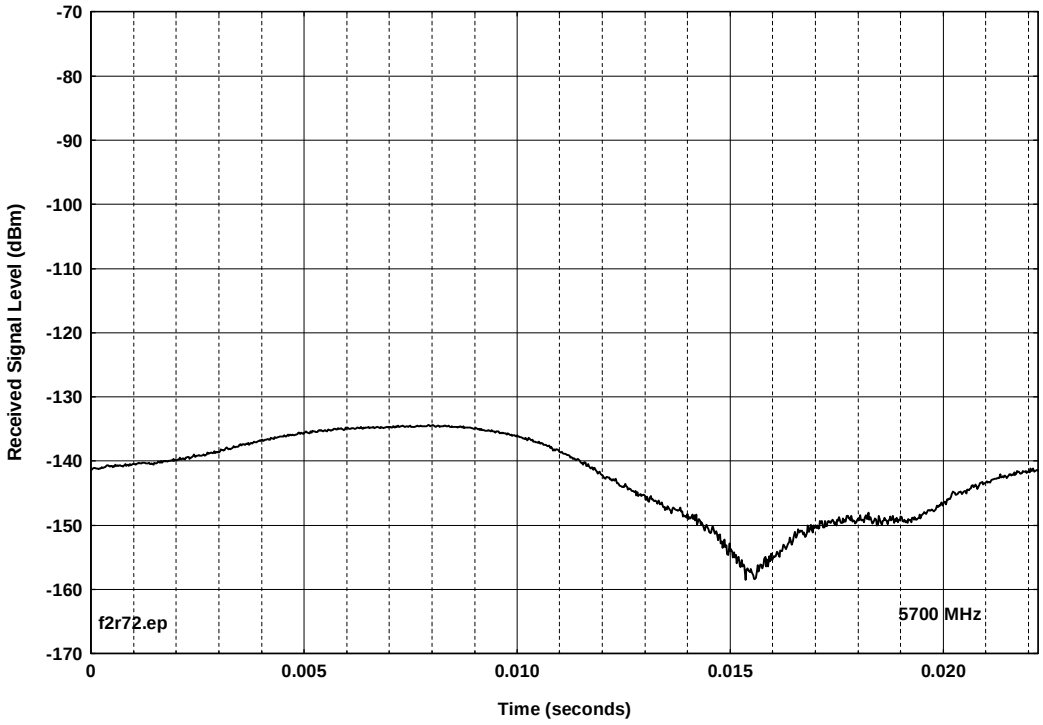

Figure D.A.18. Device A, peak emission in 100-Hz IF bandwidth.

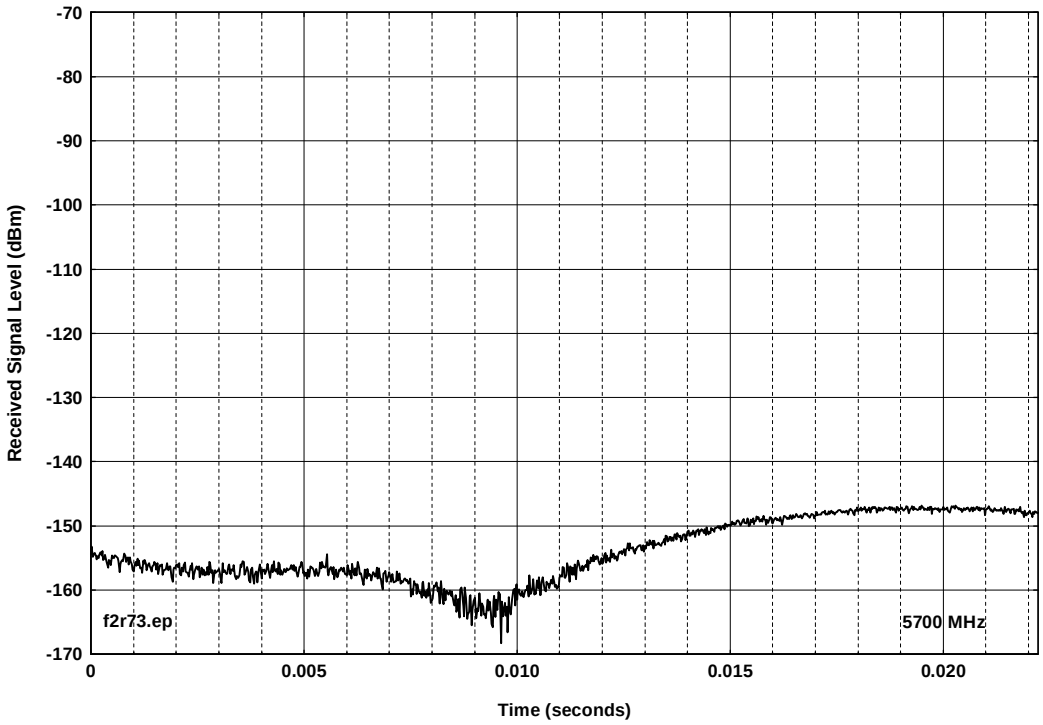

Figure D.A.19. Device A, peak emission in 30-Hz IF bandwidth.

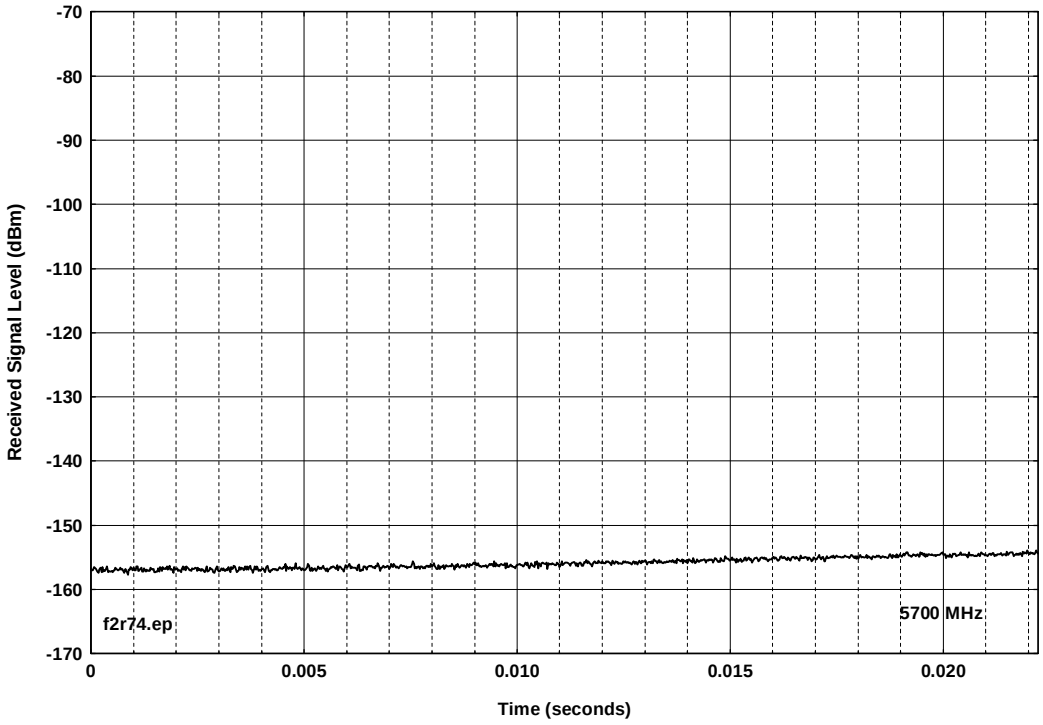

Figure D.A.20. Device A, peak emission in 10-Hz IF bandwidth.

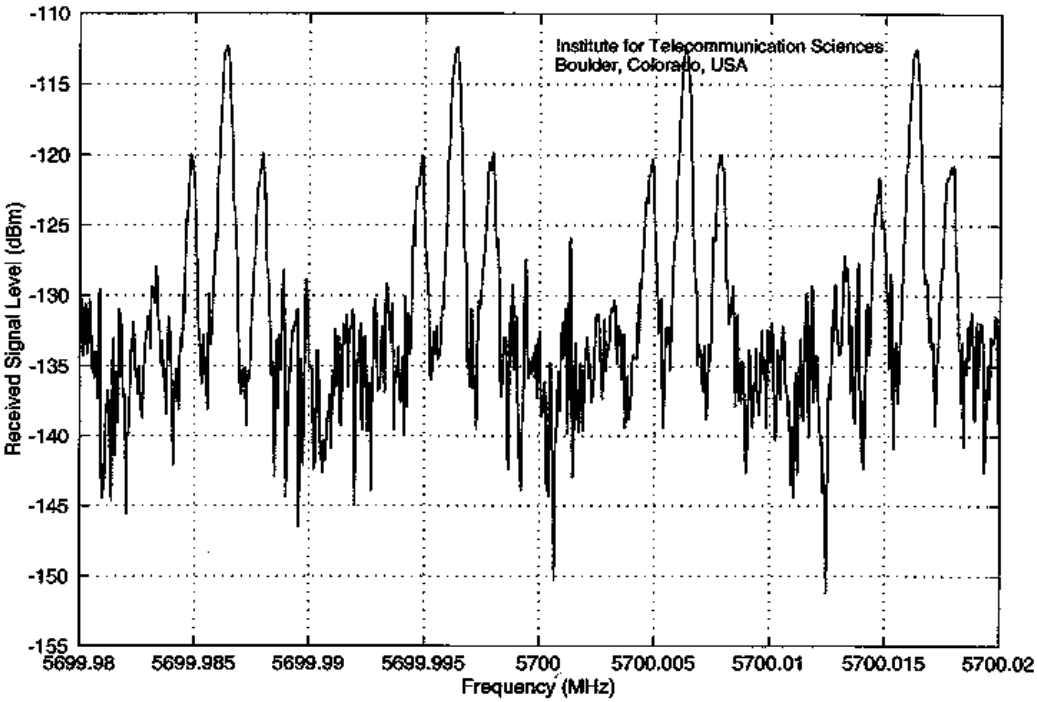

Figure D.A.21. Device A, spectrum fine structure.

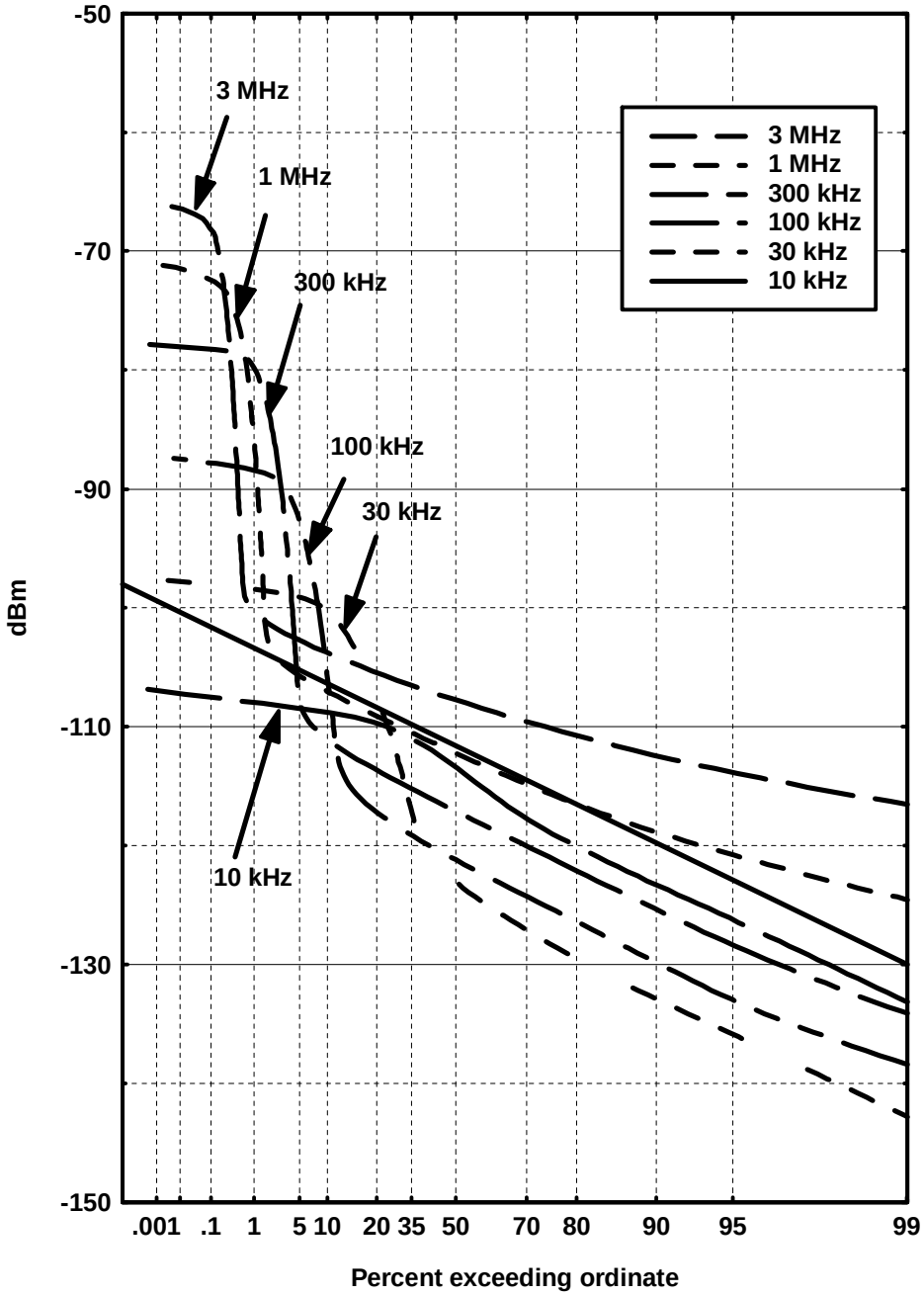

Figure D.A.22. Device A, APDs.

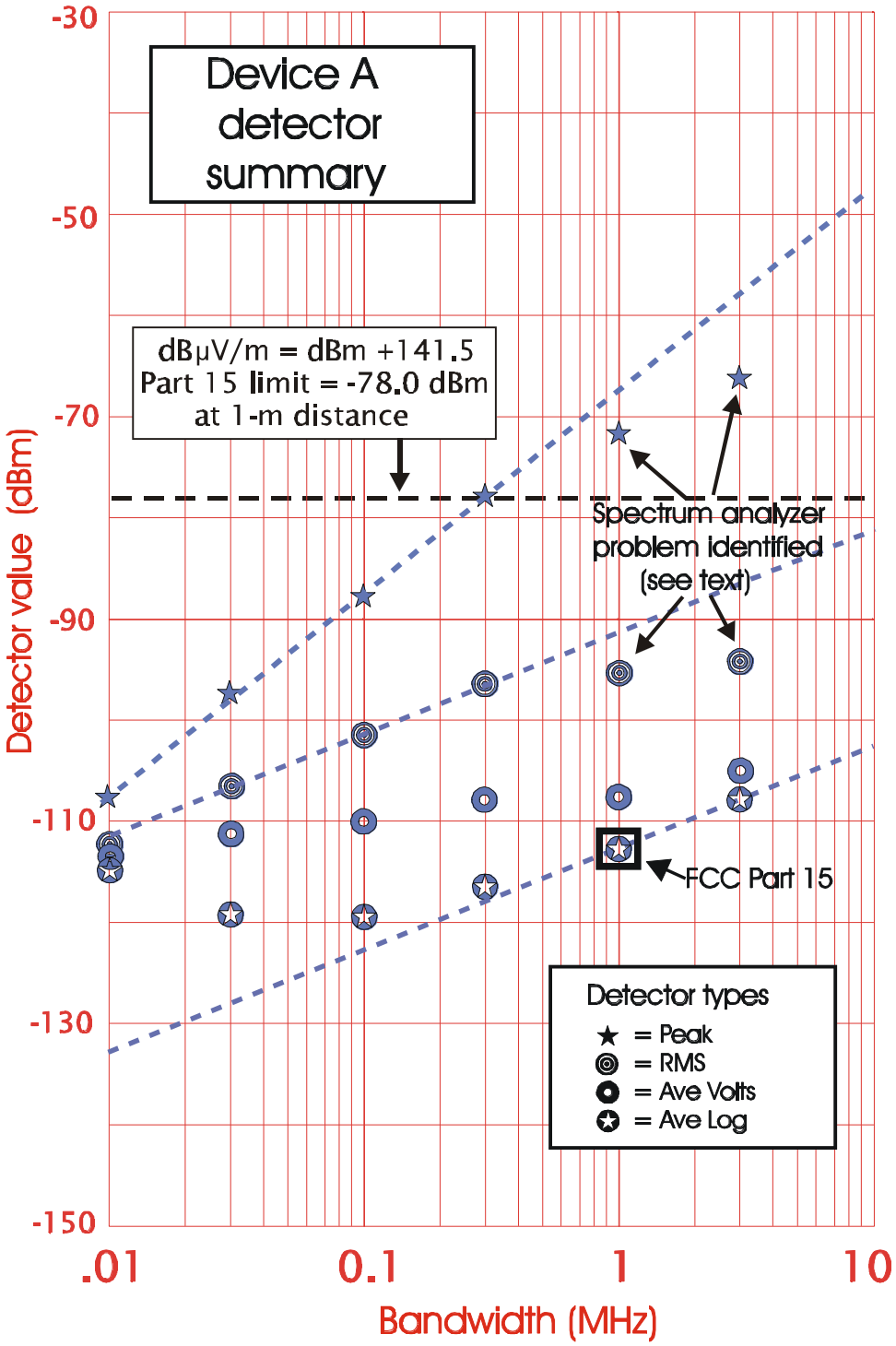

Figure D.A.23. Device A, detector summary.