



ASRI RF Interference Reports

Melbourne, FL
March 10-11, 2015

10-11 March, 2015

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ASRI RF Interference Report



- This is a description of all radio frequency interference reported via ASRI website between October 2014 to March 2015.
- We would like to acknowledge the outstanding help of the FAA, FCC, Airlines, FBO's, Rockwell Collins, and ACG in the resolution of these problems.

ExpressJet at EWR

Oct 2014



- Customer reporting 95% voice interference occurring for more than 5 years on 129.475 MHz
- Interference most likely a result of the United/Continental-ExpressJet acquisition.
- Contacted ExpressJet and suggested they use their licensed frequency at EWR, 131.200 MHz.
- No contact after suggestion, this was NOT a RFI issue, but rather use of wrong frequency.
- Case closed.

Deer Horn Aviation at MAF

Nov 2014



- Momentary squelch breaks with bursts of static reported on 11/7/2015
- Interference issue on 130.050 has been going on for approximately 2 years.
- Investigation shows ACARS frequency 130.025 MHz transmitter about 300 ft. away.
- No response from customer as of 1/30/2015.
- Case closed.

Hawaiian Airlines at HNL

Nov 2014



- Reported intermittently hearing clear voice transmissions for the last two days, possibly from AA. HAL also reported this to the local FCC office.
- Received audio files and configuration of radio system to aid in diagnosis.
- RC/A was dispatched to HNL to troubleshoot RFI.
- 3 separate replacement radios installed at AA.
- Issue cleared after last radio installed.
- Case closed.

American Airlines at MSY

Nov 2014



- Intermittent squeals reported on 11/14/2014.
- Initial investigation was unable to duplicate interference.
- RC/A found an extremely high noise floor in the room that houses the AAL radio.
- Notch Filter Cavity was added to the radio and the squelch was adjusted.
- Issue is still being worked on. As of 2/5/2014
- Case open.

FAA at DEN

Nov 2014



- Constant static reported at the DIA tower.
- RFI sounded like data burst with wide band signal.
- Provided FAA with all the ACARS frequencies at DEN.
- FAA not able to decode the data bursts.
- 11/21/14 FAA and ARINC tested system and could not confirm that it was ACARS.
- 2/24/15 Followed up with FAA and the RFI is no longer an issue.
- Case closed.

American Airline at AFW

Nov 2014



- Random low frequency squeal first reported on 11/19/2014
- RC/A found an extremely high noise floor in the room that houses the AAL radio.
- Adjustments to the squelch were made and a notch filter cavity was added to the radio.
- As of 2/5/2015 no further reported issues.
- AAL will continue to monitor
- Case open.



- Receiving constant RFI during peak 9-5 daytime hours.
- Interference was corroborated using an Airtel VMON system.
- Harris completed an analysis of this RFI and found that the interference is attributable to enroute aircraft traffic that is visible to the ground station.
- The large number of bad RF frames encountered at ACY appear to be due to distant enroute traffic that cannot be accurately decoded, but are sufficiently strong to be recognized as VDL-2 data by the ground station receiver.
- Case closed

United Airlines at PHL

Feb 2016



- United Airlines reported short sporadic bursts of interference.
- Assumed it was ACARS interference.
- RC/A administered testing remotely.
- Radio and filter replaced by UA
- As of 2/24/2015 no more RFI issues reported.
- Case closed.

2014 RFI Summary

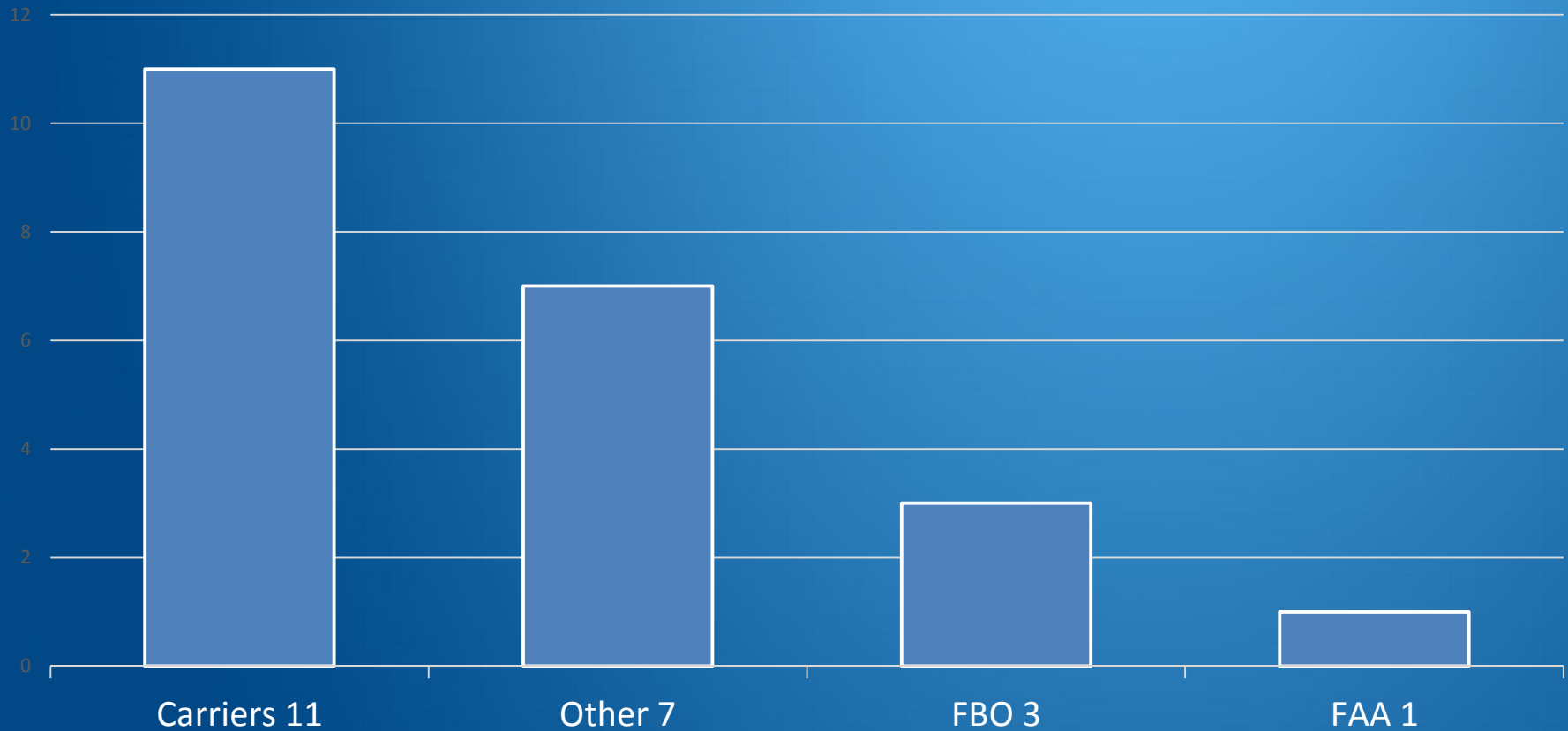


- There were 22 reported RFI issues received in 2014.
- 20 issues were resolved
- 2 issues remain open

Organizations reporting RFI 2014



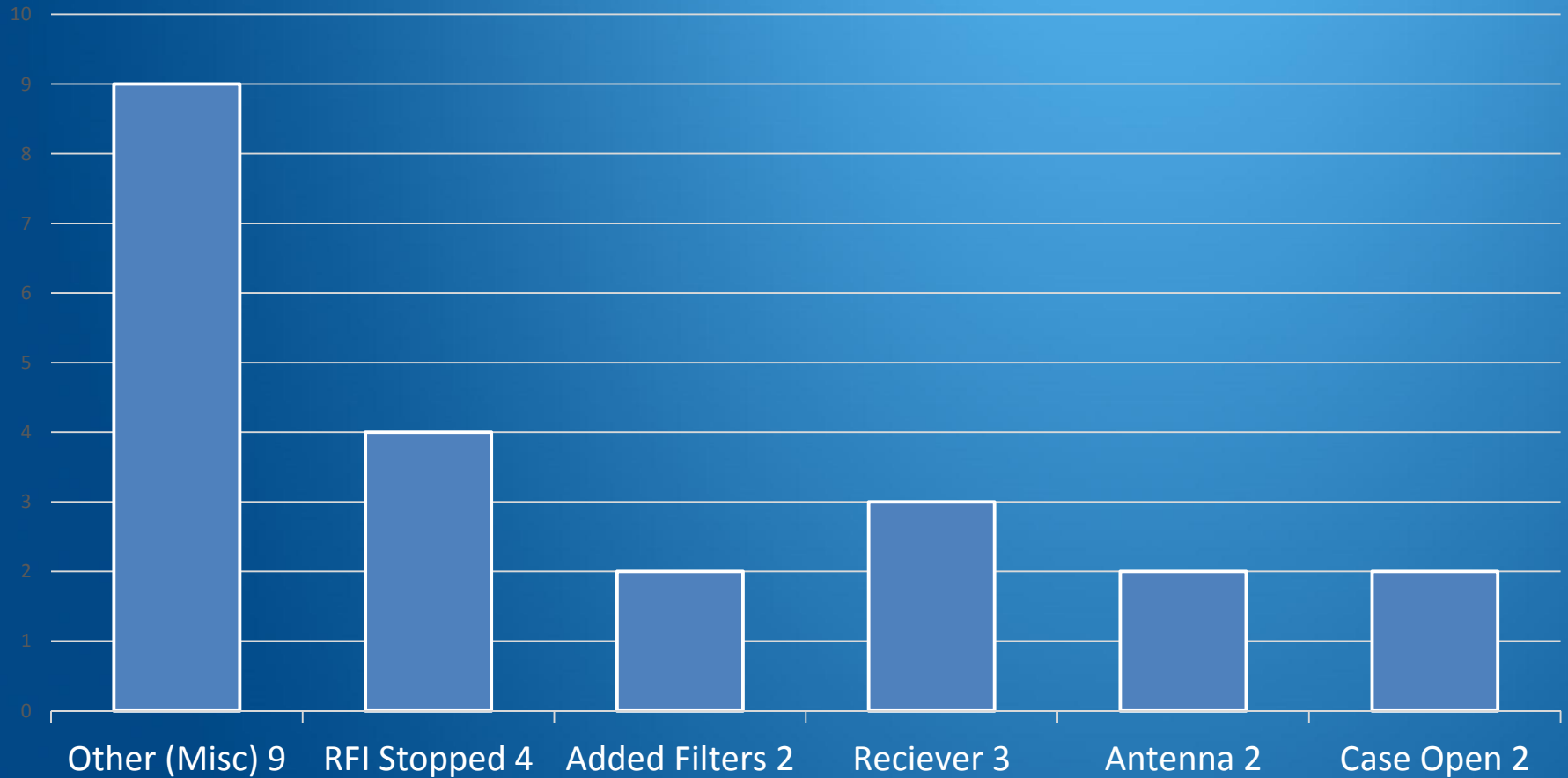
Reported By



RFI Resolution 2014



RFI Resolution





Questions or Comments?

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