Tektronix RSA3308A
RFID Signal Capture

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RSA3308A Test Setup

- Alien RFID Reader and Tag, RHCP Reader Antenna
- RSA3308A, LHCP RSA Antenna
RSA3308A RFID Capture

- Frequency: 915 MHz
- Span: 2 MHz
- Input Att: 30 dB

- Acquisition Length: 100.16 ms

- Timing: Start: -100.13 ms, Scale: 10.015 ms/

- Analog Demod: AM Demod

- Center: 915 MHz, Span: 2 MHz
IQ Data MATLAB Analysis

Alien RFID Reader
- Tag Programming Mode
RFID Command and Response

RFID Communication Format
- Start Period
- ASK Modulation
- TAG Response
RFID Command

Signal Format ASK – 1/8 To=zero and 3/8 To=one
- Preamble.Clock Synch.Start-of-Frame
RFID TAG Response Period

Signal Format PCM - One cycle = zero, Two cycle = one
- VerifyID: Preamble-TAGID-CRC-Password
- ScrollID: Preamble-TAGID-CRC
- PingID: 8-bit Value

![Raw Signal in Time of TPM2MHzB.csv](image)
RFID Response

Signal Format PCM- One cycle=zero, Two cycle=one
Contact Information

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