

## ARISSat-1 Voice, SSTV, CW and BPSK Sequences

### FM Voice Sequence

ID - Hi this is ARISSat-1 amateur radio satellite RS01S	7 secs
<b>Greeting</b>	20-29 secs
<b>Voice Telemetry</b>	34 secs
Tone introduction	
MET is xxx minutes	
IHU Temp is -xxx °C	
Control Panel Temp is -xxx °C	
Battery Voltage is xx.xx Volts	
Battery Current is -xxx mA	
<b>Greeting</b>	20-29 secs
ID - Hi this is ARISSat-1 amateur radio satellite RS01S	7 secs
no modulation	8 secs
<b>SSTV image</b>	36 secs

Total time ~142 sec

loop back to the top

### CW Sequence

@15 wpm

ID - Hi this is ARISSat1 RS01S	22 secs
<b>callsign</b> - W5DID	~7 secs
<b>Telemetry</b> - phi introduction	
MET 337 m	[Mission Elapsed Time in minutes]
IHU -112C	[IHU internal temperature]
CP -112c	[Control Panel external temperature]
Bat 31.93V -221 mA	[Battery Voltage and Current]
RF 363 mA	[RF Current]
	112.5 sec
	total 141.5 secs

loop back to top

### BPSK Sequence

Telemetry	371 bytes, 340 data	8 secs
Experiment 1 of 5	516 bytes	9.4 secs
Telemetry	371 bytes, 340 data	8 secs
Experiment 2 of 5	516 bytes	9.4 secs
Telemetry	371 bytes, 340 data	8 secs
Experiment 3 of 5	516 bytes	9.4 secs
Telemetry	371 bytes, 340 data	8 secs
Experiment 4 of 5	516 bytes	9.4 secs
Telemetry	371 bytes, 340 data	8 secs
Experiment 5 of 5	48 bytes	2.3 secs

continue looping 80 sec total

### SSTV Sequence (initial sequence, this changes depending upon captured data)

quiet time  
Red callsign [-Y pointing camera, mirror reverses image]  
Green callsign [+Z pointing camera]  
Blue callsign [-Z pointing camera]  
Magenta callsign [+Y pointing camera, mirror reverses image]  
Fixed image #1  
Red callsign [-Y pointing camera, mirror reverses image]  
Green callsign [+Z pointing camera]  
Blue callsign [-Z pointing camera]  
Magenta callsign [+Y pointing camera, mirror reverses image]  
Fixed image #2

SSTV images transmitted ~ every 2.11 seconds