

Attack PICO SWAES using CW

ChipWhisperer Setup

- *CW Clock : 4Mhz*
- *CW ADC Sampling rate : 16Mhz*
- *Samples per trace : 24400*
- *# of traces : 40k*
- *Time per traces to capture : 3 sec*

Attack Region and Time

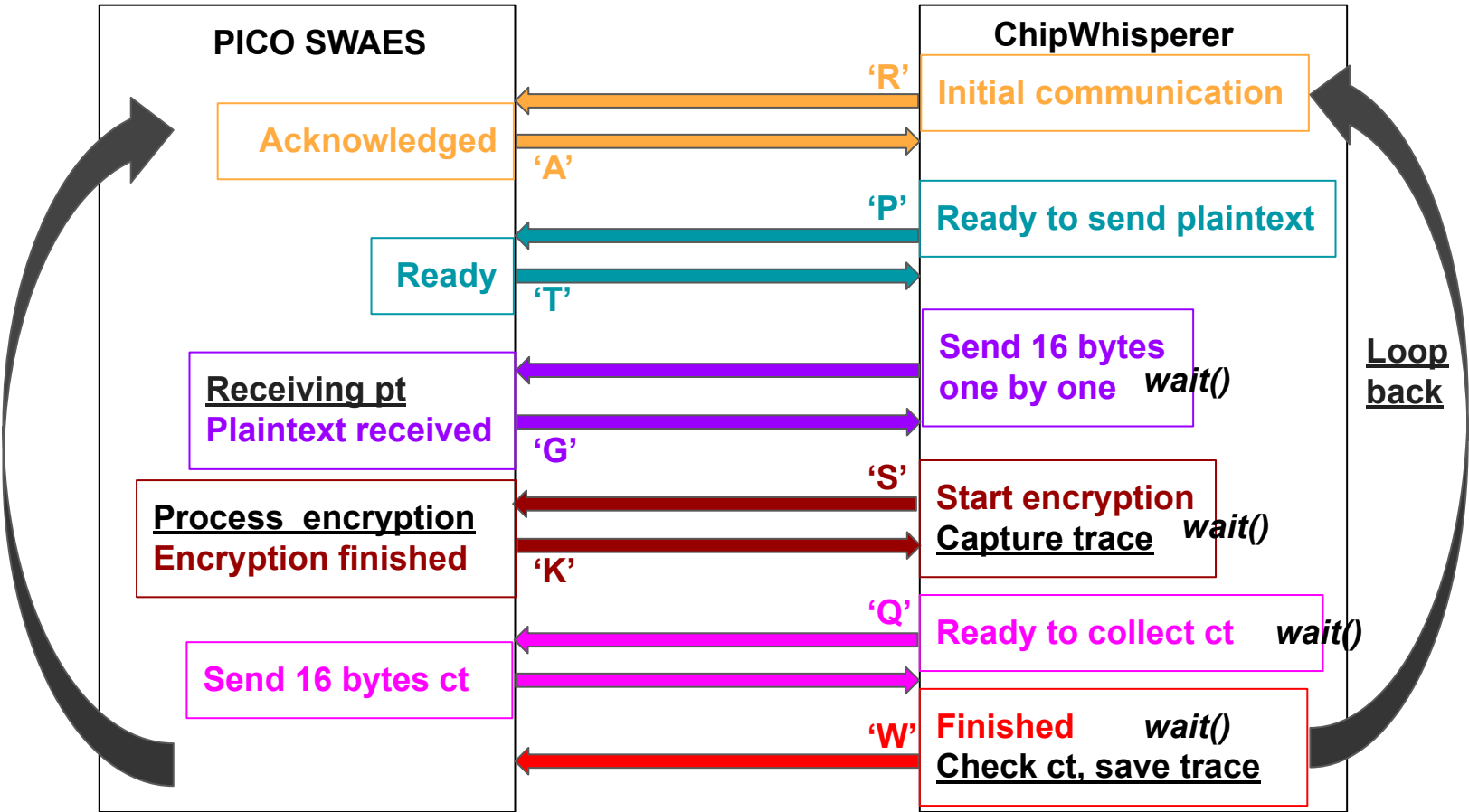
- *Trigger = 1*
1st round sbox
Trigger = 0
- *Attack time per byte: 20 mins*

Communication between PICO SWAES and CW

Command
order

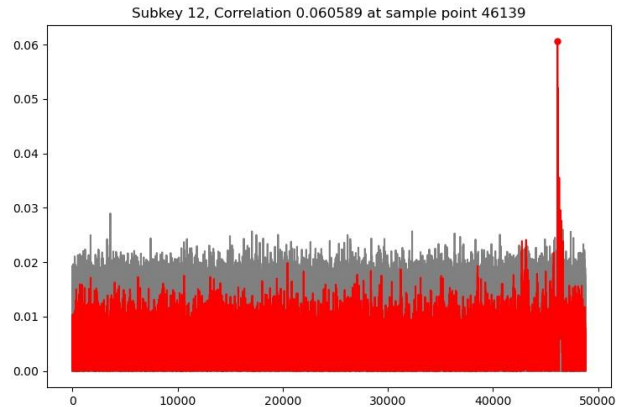
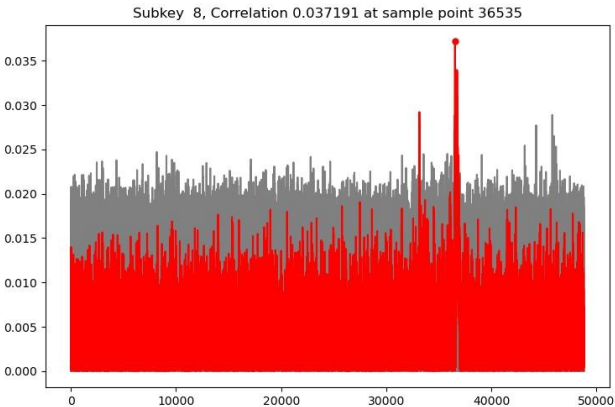
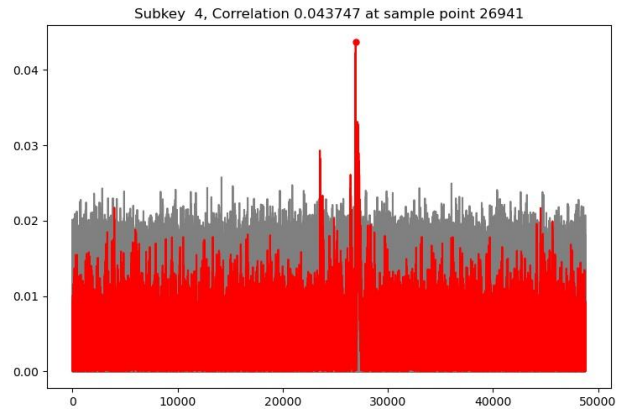
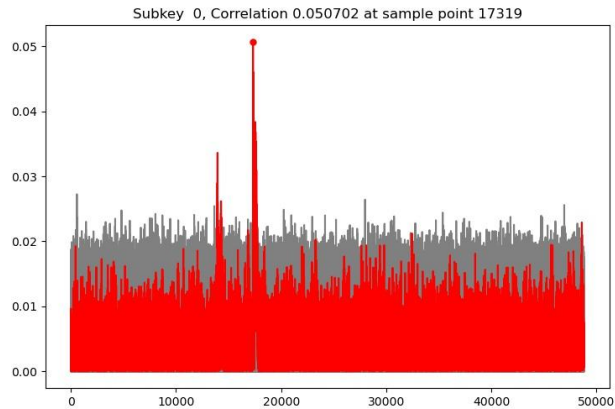
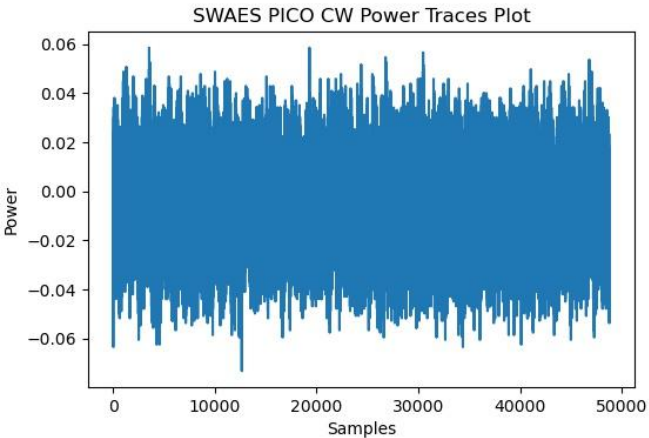
Loop
back

Loop
back



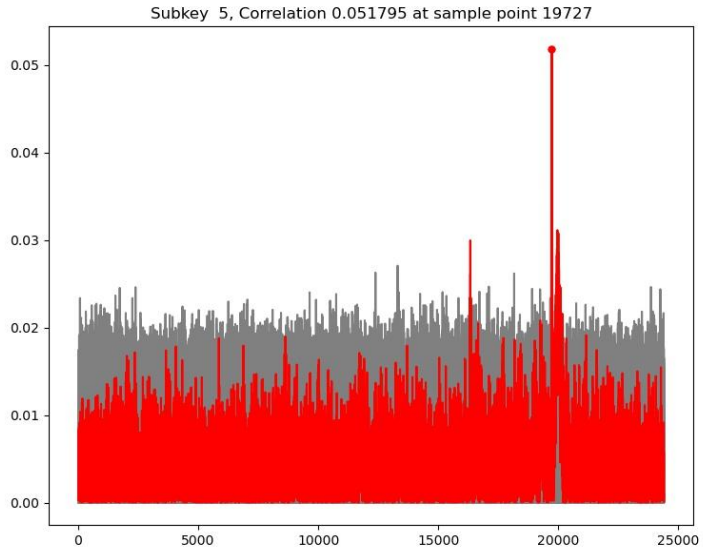
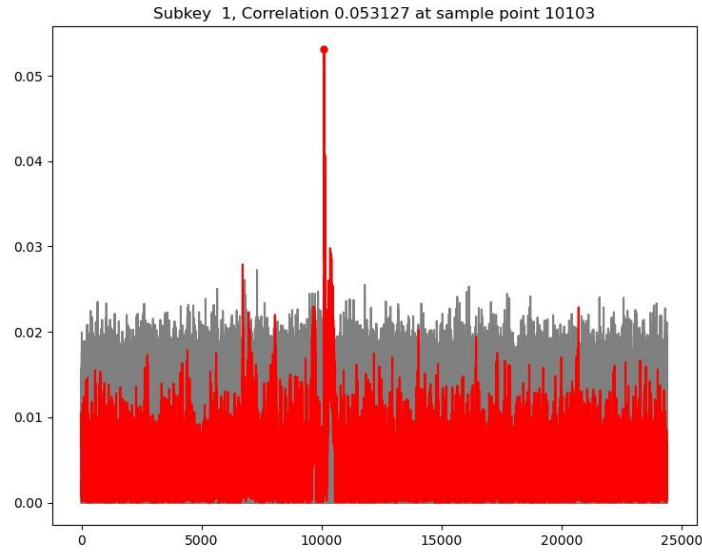
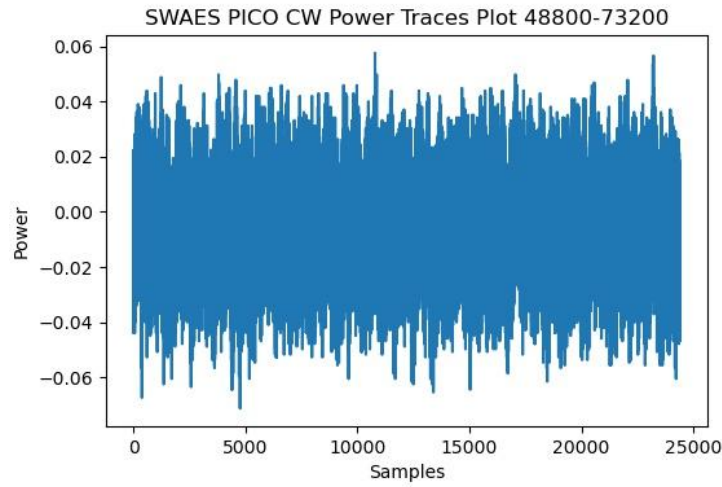
0-48800 samples

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15



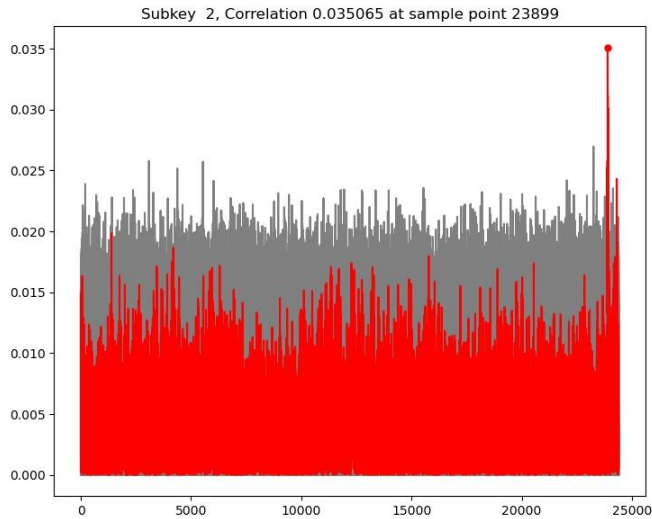
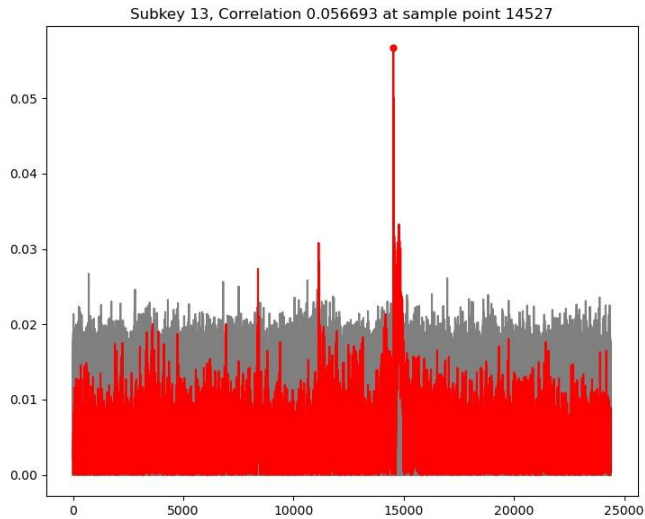
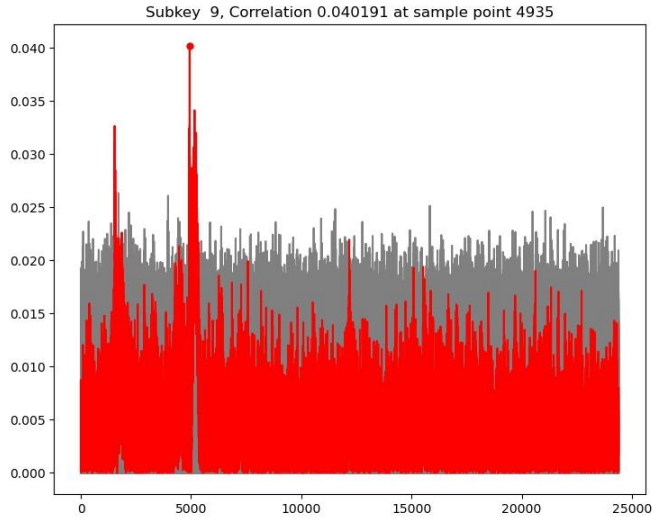
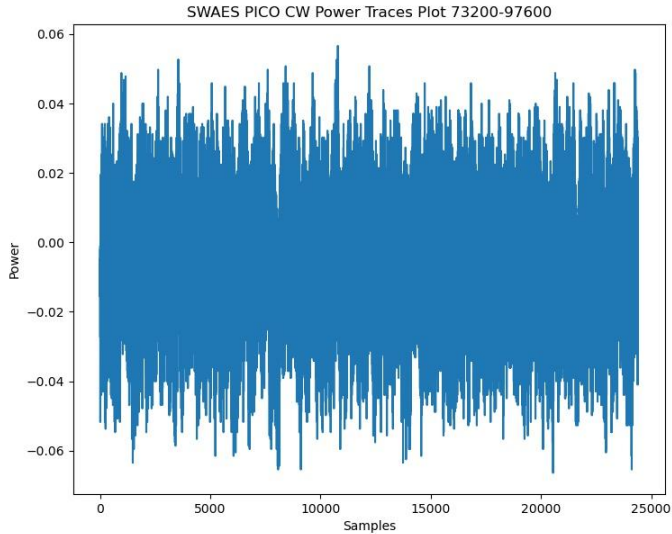
48800-73200 samples

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15



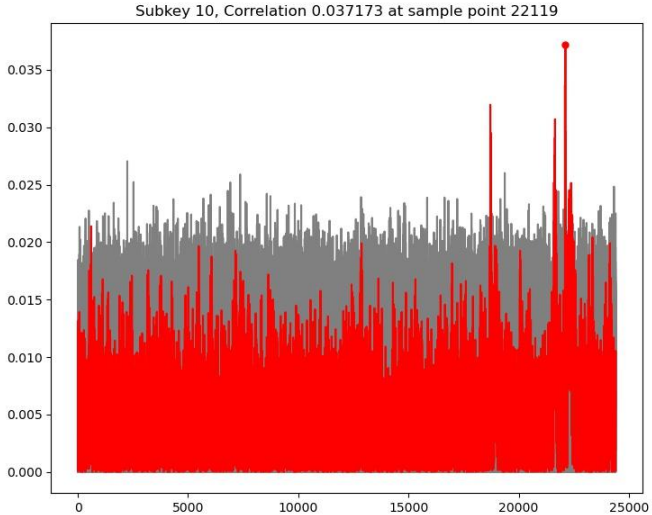
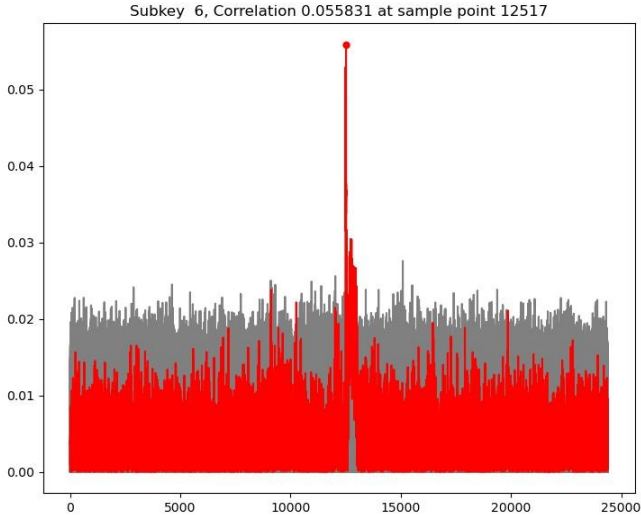
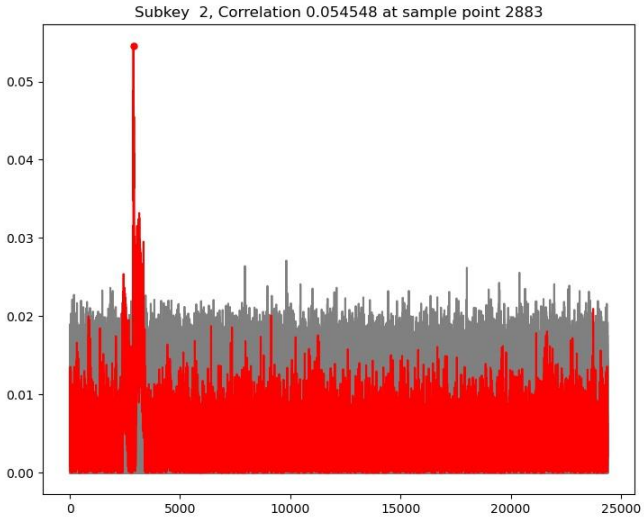
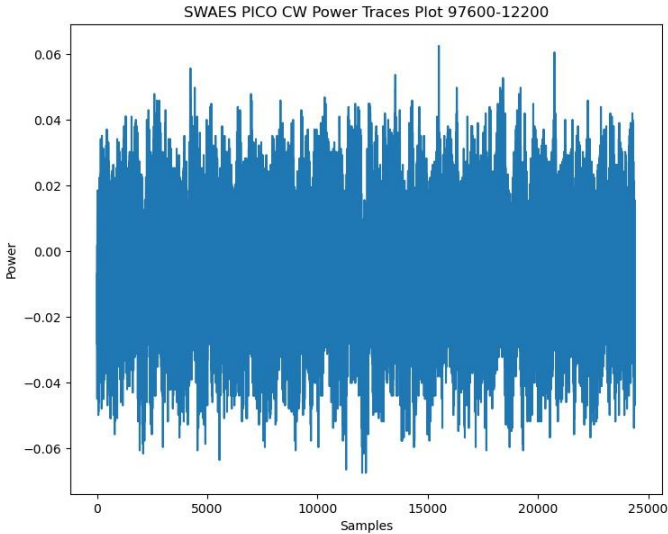
73200-97600 samples

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15



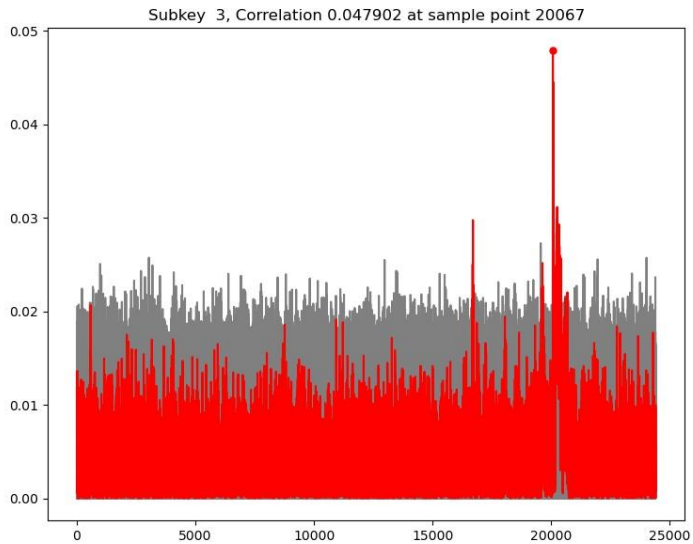
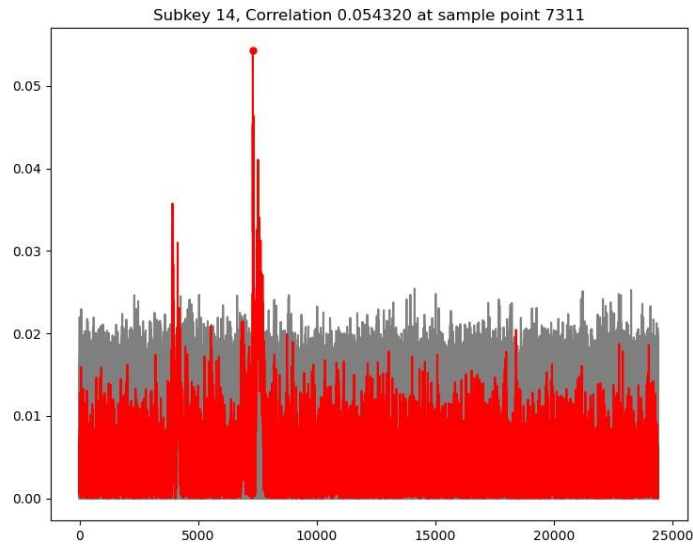
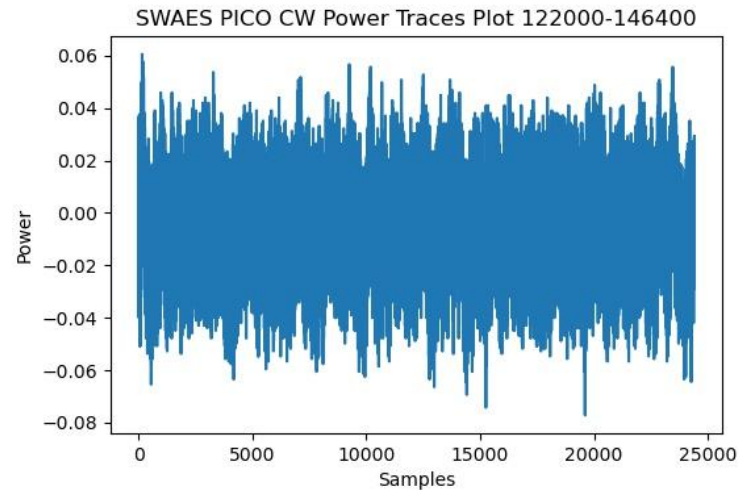
97600-12200 samples

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15



12200-146400 samples

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15



146400-170800 samples
Byte 3, 7

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

