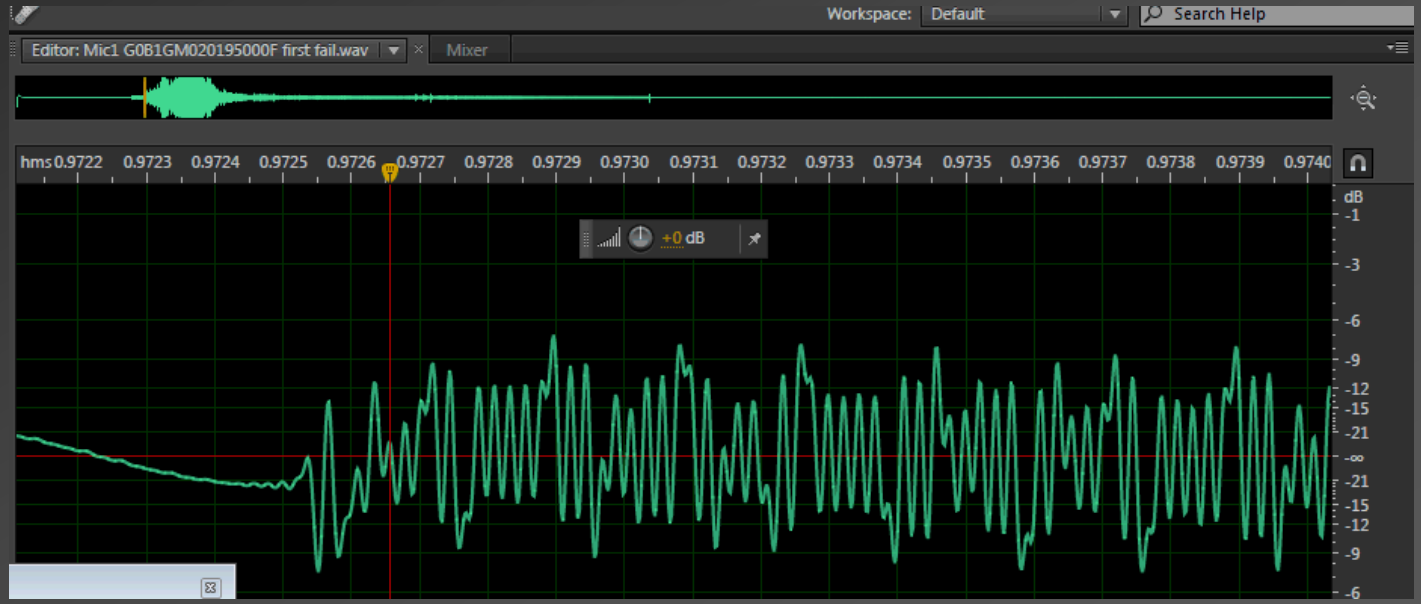
ADC5140

Symptom

- Test procedure
  - Play audio frequency source from 45K to 80
  - Record frequency sound by ADC5140
  - Analyze recording file
- Expected result
  - Each audio signal of recording file should be same
  - Audio frequency of recording file should be from 45K to 80
- Actual result
  - 1st audio signal of recording file is different from others
  - In the beginning of recording file , it is brief out of order of frequency about 0.6 second

Each audio signal of recording file should be same

- 1st audio signal of recording file

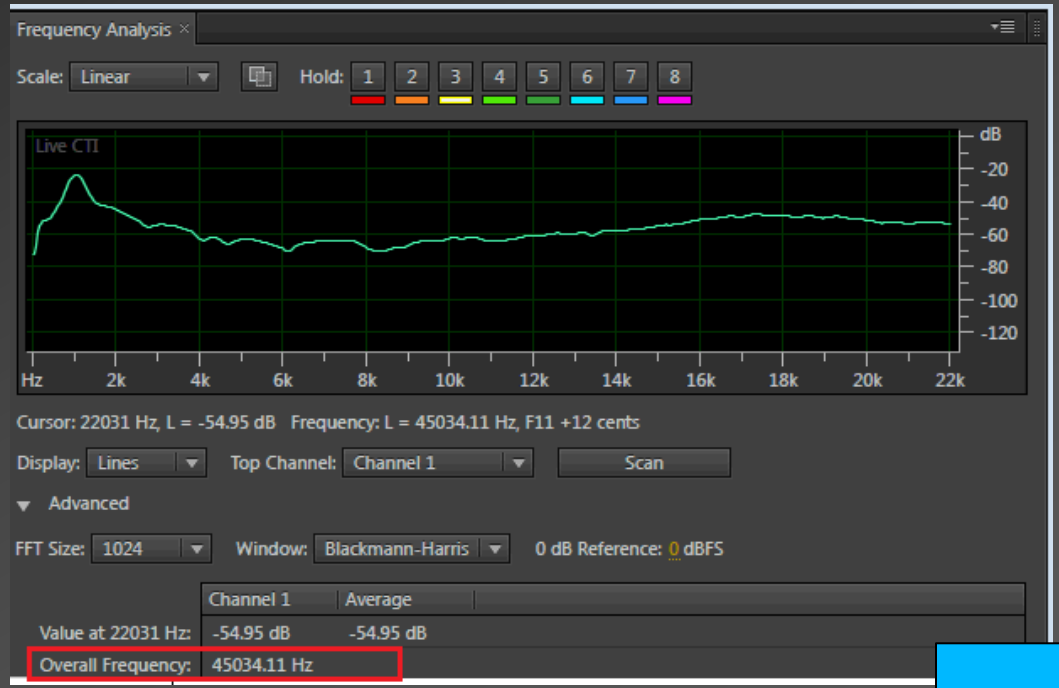


Audio frequency of recording file should be from 45K to 80

- In the beginning of recording file, audio frequency measure 11K ,but it should be 45K

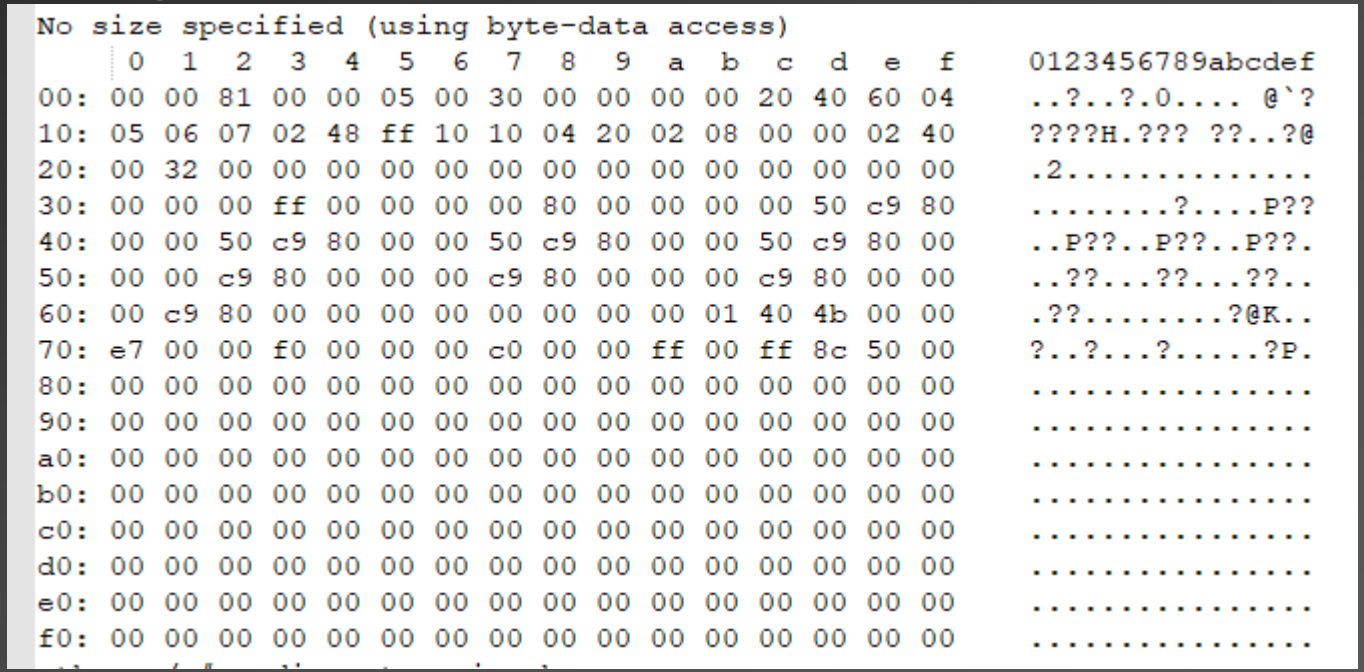
Audio frequency of recording file should be from 45K to 80

- In the beginning of recording file, audio frequency should measure 45K



Dump register

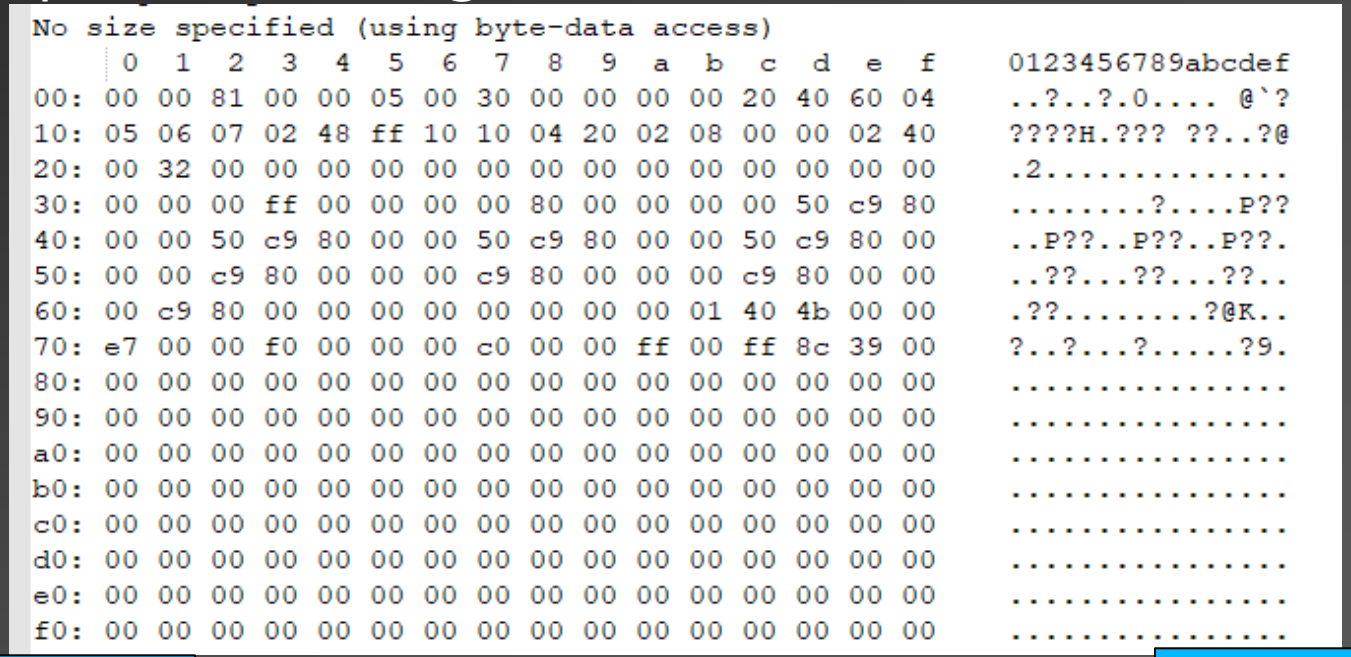
- Initial register table



```
No size specified (using byte-data access)
     0  1  2  3  4  5  6  7  8  9  a  b  c  d  e  f    0123456789abcdef
00: 00 00 81 00 00 05 00 30 00 00 00 00 20 40 60 04    ..?..?.0.... @`?
10: 05 06 07 02 48 ff 10 10 04 20 02 08 00 00 02 40    ????H.??? ??..?@
20: 00 32 00 00 00 00 00 00 00 00 00 00 00 00 00 00    .2..............
30: 00 00 00 ff 00 00 00 00 80 00 00 00 00 50 c9 80    ........?....P??
40: 00 00 50 c9 80 00 00 50 c9 80 00 00 50 c9 80 00    ..P??..P??..P??.
50: 00 00 c9 80 00 00 00 c9 80 00 00 00 c9 80 00 00    ..??...??...??..
60: 00 c9 80 00 00 00 00 00 00 00 00 01 40 4b 00 00    .??........?@K..
70: e7 00 00 f0 00 00 00 c0 00 00 ff 00 ff 8c 50 00    ?..?...?.....?P.
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
c0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
f0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
```

Dump register

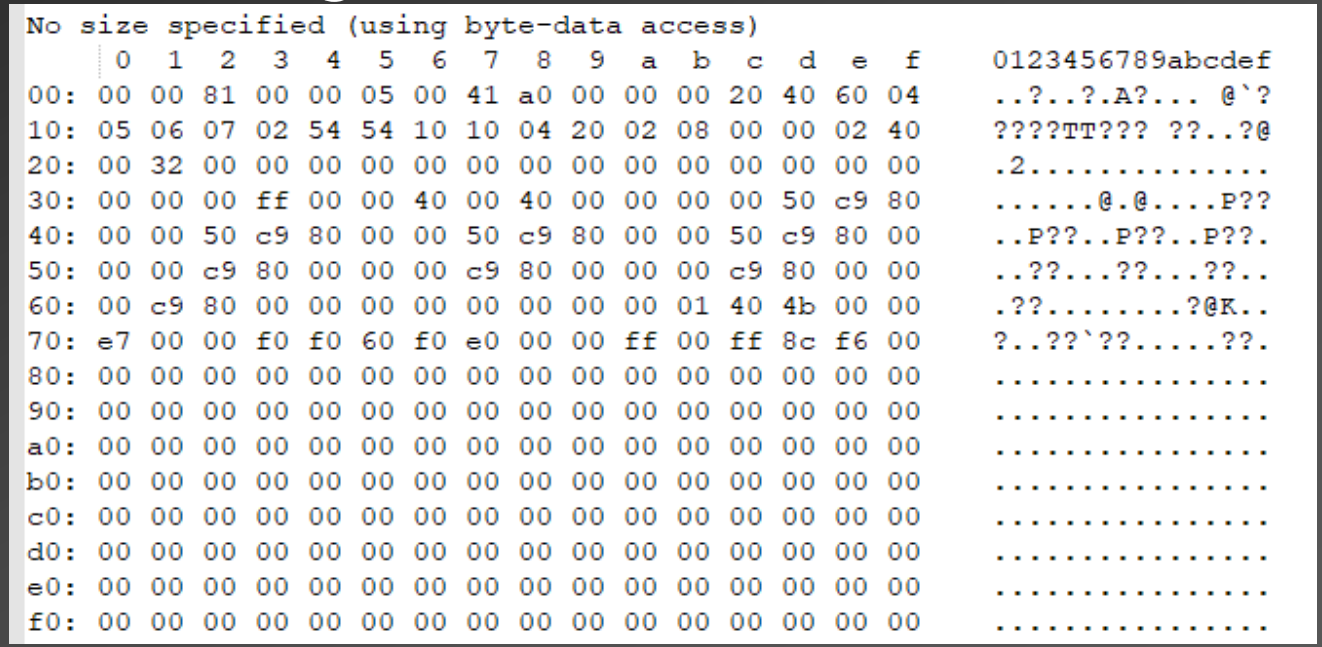
- Setup for recording



```
No size specified (using byte-data access)
     0  1  2  3  4  5  6  7  8  9  a  b  c  d  e  f    0123456789abcdef
00: 00 00 81 00 00 05 00 30 00 00 00 00 20 40 60 04    ..?..?.0.... @`?
10: 05 06 07 02 48 ff 10 10 04 20 02 08 00 00 02 40    ????H.??? ??..?@
20: 00 32 00 00 00 00 00 00 00 00 00 00 00 00 00 00    .2..............
30: 00 00 00 ff 00 00 00 00 80 00 00 00 00 50 c9 80    ........?....P??
40: 00 00 50 c9 80 00 00 50 c9 80 00 00 50 c9 80 00    ..P??..P??..P??.
50: 00 00 c9 80 00 00 00 c9 80 00 00 00 c9 80 00 00    ..??...??...??..
60: 00 c9 80 00 00 00 00 00 00 00 00 01 40 4b 00 00    .??........?@K..
70: e7 00 00 f0 00 00 00 c0 00 00 ff 00 ff 8c 39 00    ?..?...?.....?9.
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
c0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
f0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
```

Dump register

- After recording



```
No size specified (using byte-data access)
     0  1  2  3  4  5  6  7  8  9  a  b  c  d  e  f    0123456789abcdef
00: 00 00 81 00 00 05 00 41 a0 00 00 00 20 40 60 04    ..?..?.A?... @`?
10: 05 06 07 02 54 54 10 10 04 20 02 08 00 00 02 40    ????TT??? ??..?@
20: 00 32 00 00 00 00 00 00 00 00 00 00 00 00 00 00    .2..............
30: 00 00 00 ff 00 00 40 00 40 00 00 00 00 50 c9 80    ......@.@....P??
40: 00 00 50 c9 80 00 00 50 c9 80 00 00 50 c9 80 00    ..P??..P??..P??.
50: 00 00 c9 80 00 00 00 c9 80 00 00 00 c9 80 00 00    ..??...??...??..
60: 00 c9 80 00 00 00 00 00 00 00 00 01 40 4b 00 00    .??........?@K..
70: e7 00 00 f0 f0 60 f0 e0 00 00 ff 00 ff 8c f6 00    ?..??`??.....??.
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
c0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
f0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00    ................
```