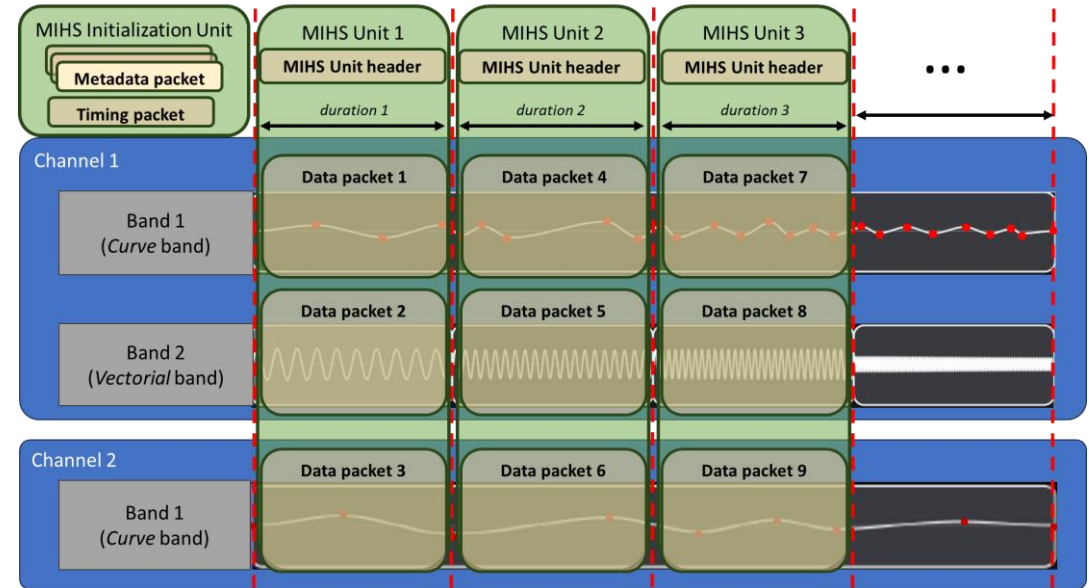
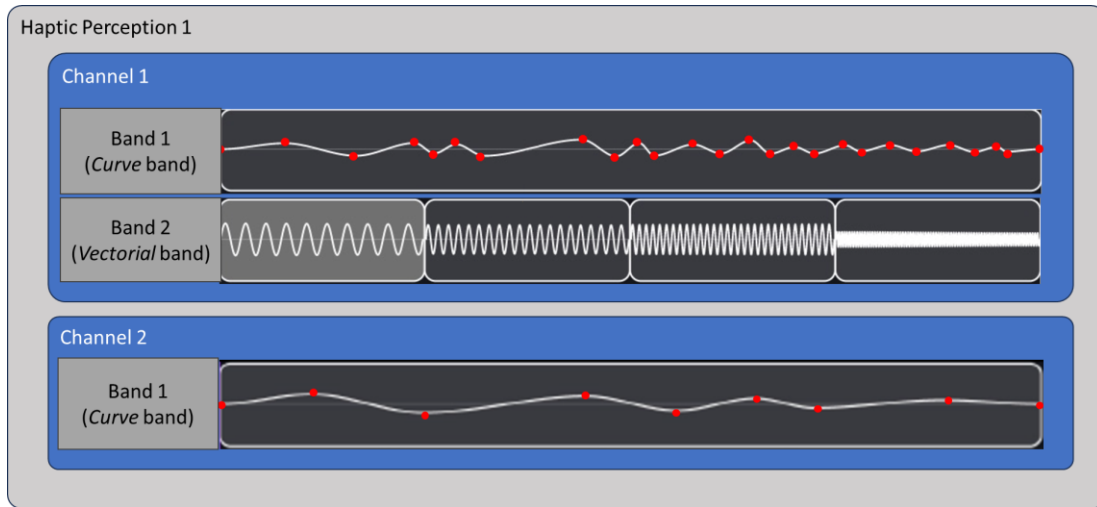


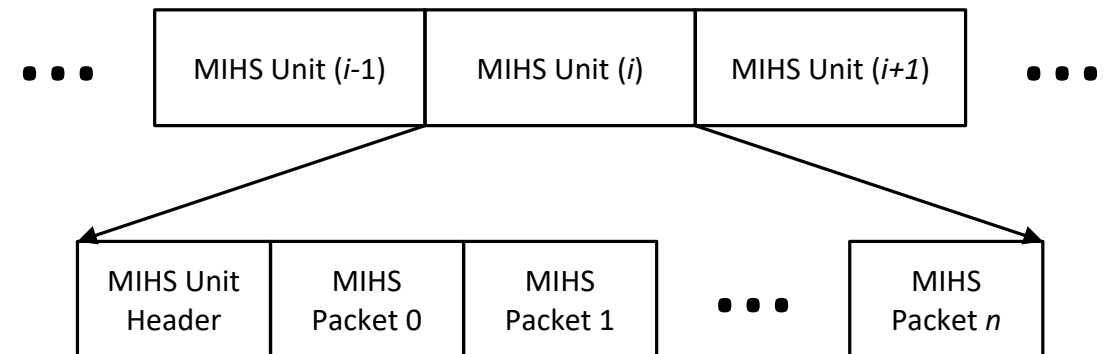
S4-241855 Haptics traces R1

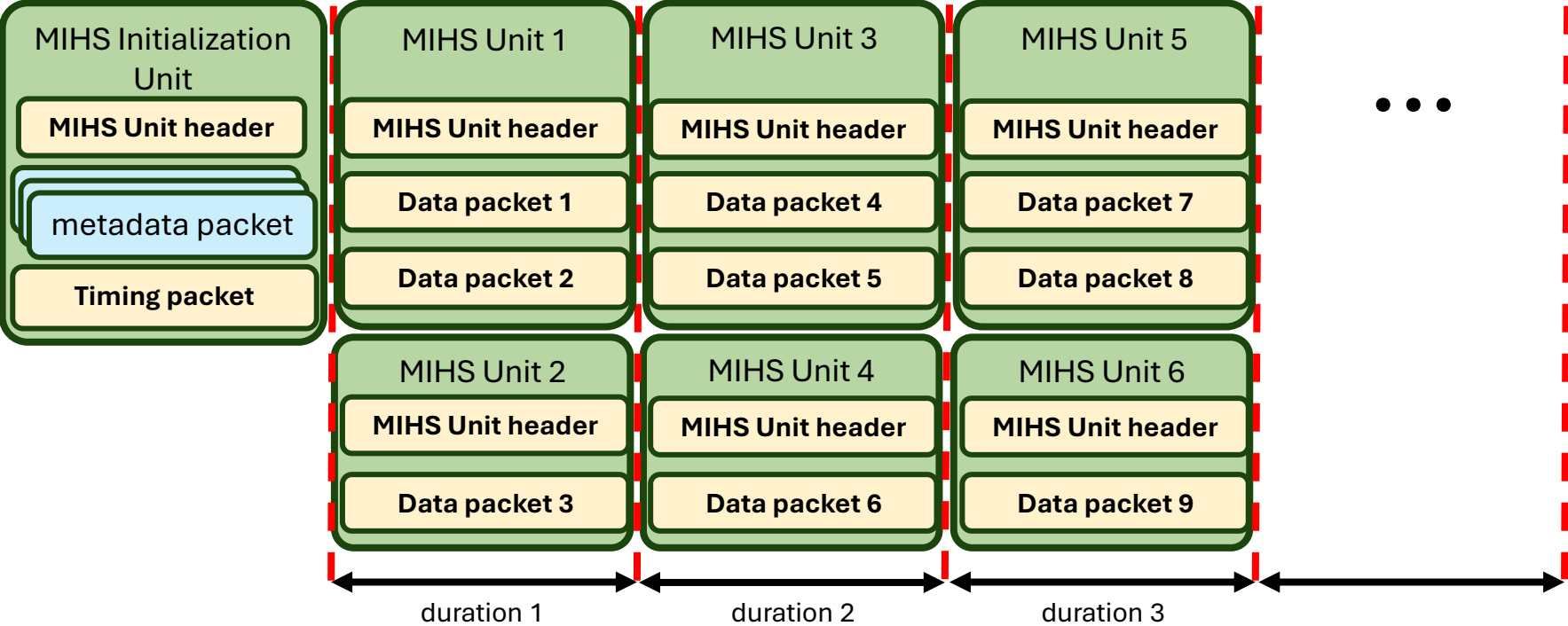
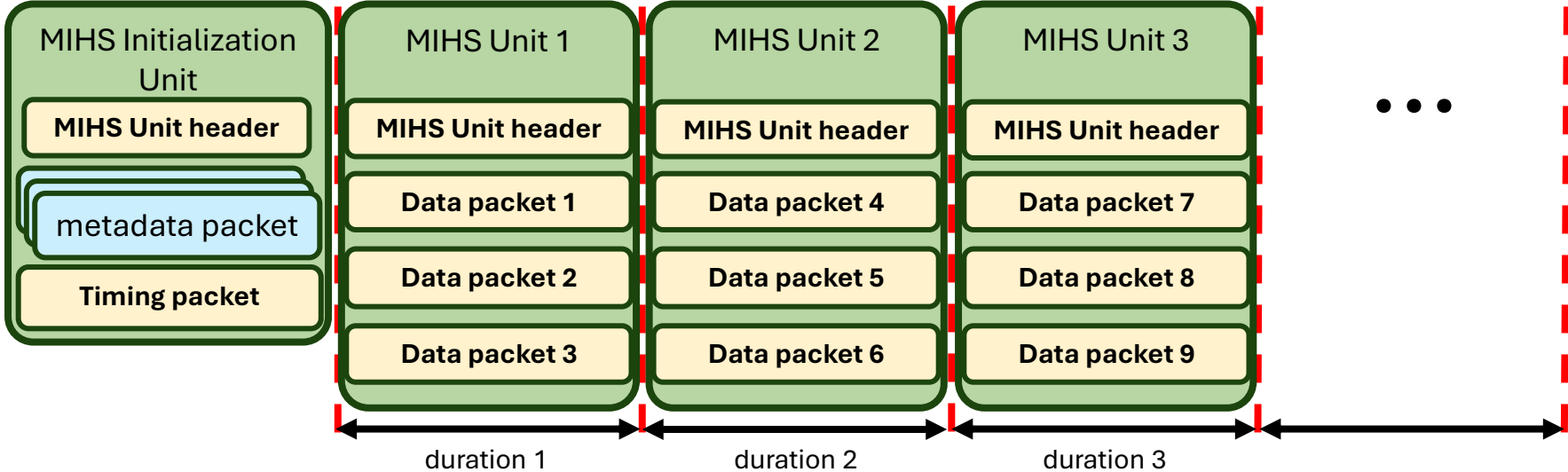
with MPEG Haptic codec

MPEG-I Haptic Stream (MIHS)



1. MIHS unit covers a duration of time, includes zero or more MIHS packets.
2. MIHS packet includes metadata or haptic effect data.





Characteristics of Haptic Files

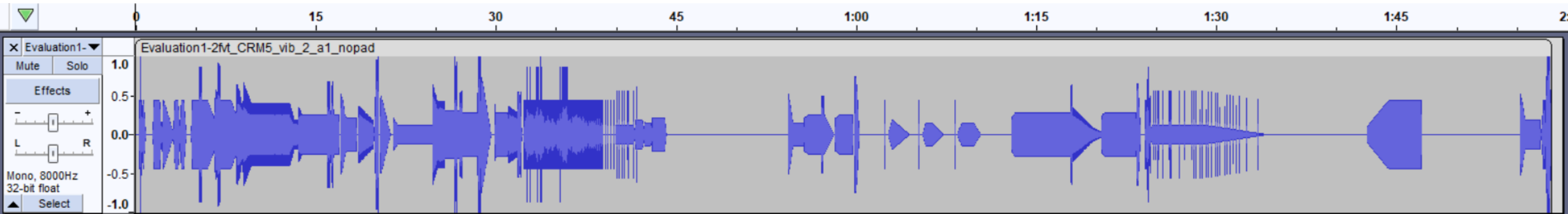
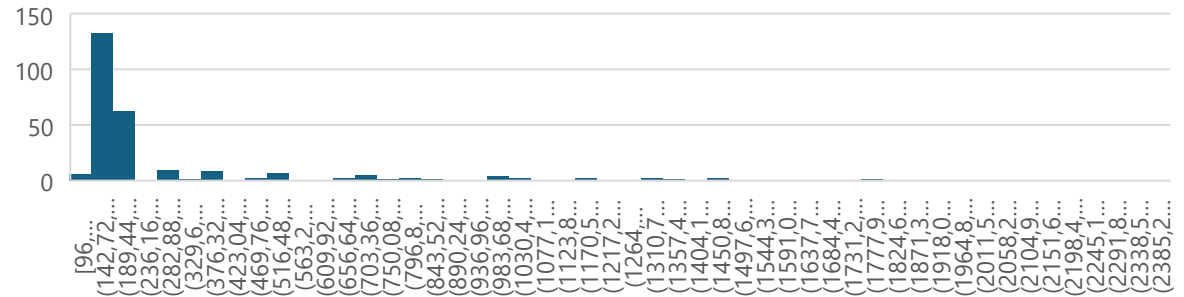
- Type of haptic content
 - Haptic data enhancing AV content
 - Haptic data for gaming content (for Streaming or Replay)
- Nb channels
- Input data type
 - Parametric data or PCM data
- Haptic data density (per channel)
 - Intense, medium or light

File	Input type	Density	Duration	Nb channels	Bitrate (kbps)	Nb packets	Nb Silent Units
File 1	Parametric	High	01:58	1	1.11	277	114
File 1	PCM	High	01:58	1	7.74	1622	0
File 2	Parametric	Light	00:36	1	0.71	78	54
File 2	PCM	Light	00:36	1	6.34	506	0
File 3	Parametric	Medium	00:18	1	1.7	83	15
File 3	PCM	Medium	00:18	1	9.55	294	0
File 4	Parametric	High	01:11	7	6.24	1586	0
File 4	PCM	High	01:11	7	25.45	5718	0
File 5	Parametric	Light	01:11	7	1.65	470	39
File 5	PCM	Light	01:11	7	15.54	4904	0

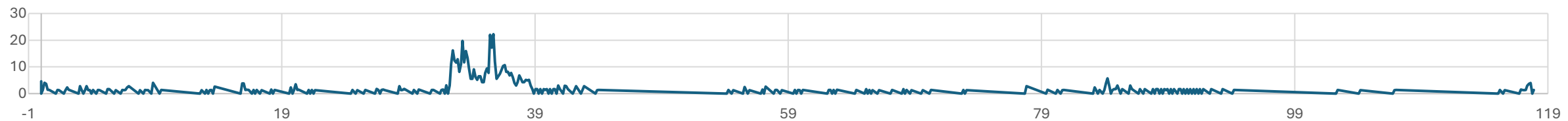
Test File 1 - Parametric

- 1:58 min
- 1.11 Kbps
- 277 packets
 - 7 metadata packets
 - 270 data packets
- 114 Silent Units

Distribution of packet sizes (bits) - File 1 parametric



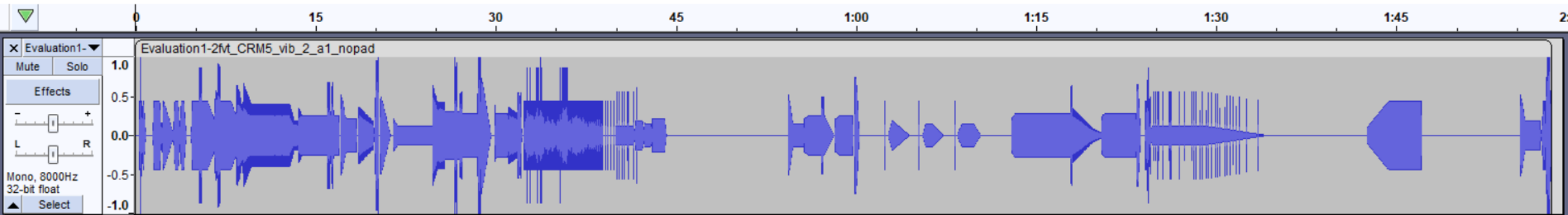
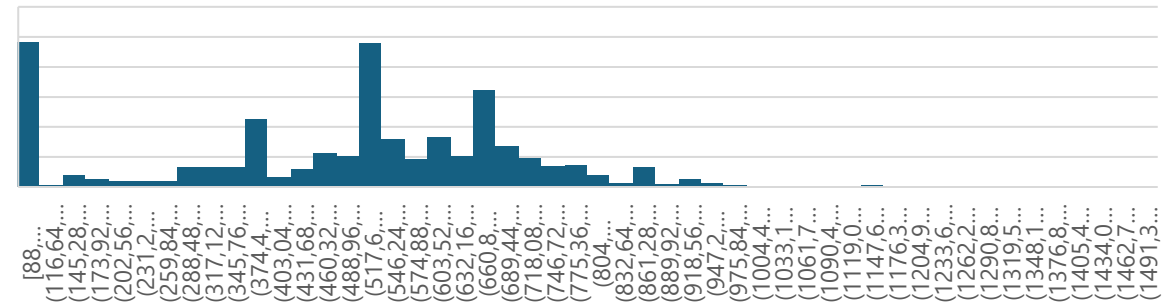
bitrate (kbps)



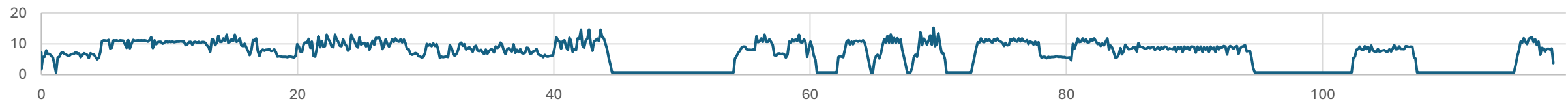
Test File 1 - PCM

- 1:58 min
- 7.74 Kbps
- 1622 packets
 - 6 metadata packets
 - 1616 data packets

Distribution of packet sizes (bits) - File 1 PCM



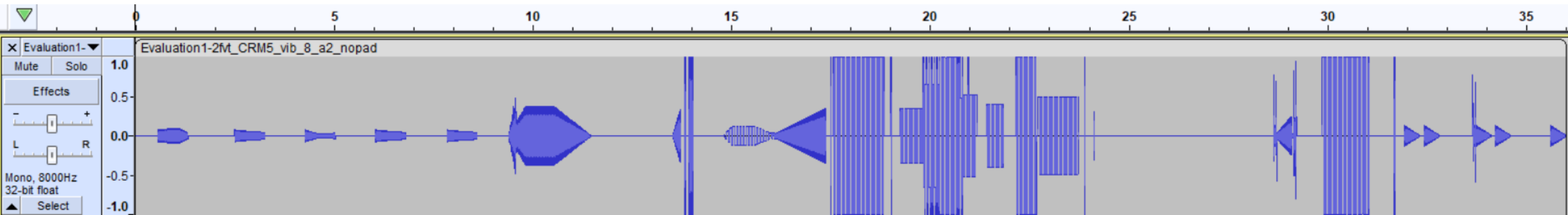
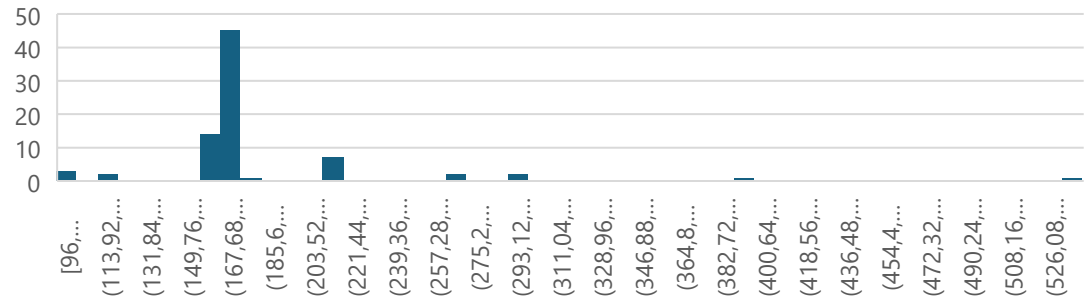
bitrate (kbps) - File 1 PCM



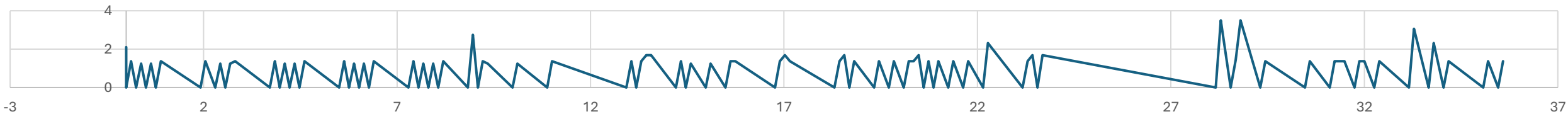
Test File 2 - Parametric

- 00:36 secs
- 0.71 Kbps
- 78 packets including
 - 6 metadata packets
 - 72 data packets
- 54 Silent Units

Distribution of packet sizes (bits) - File 2 parametric



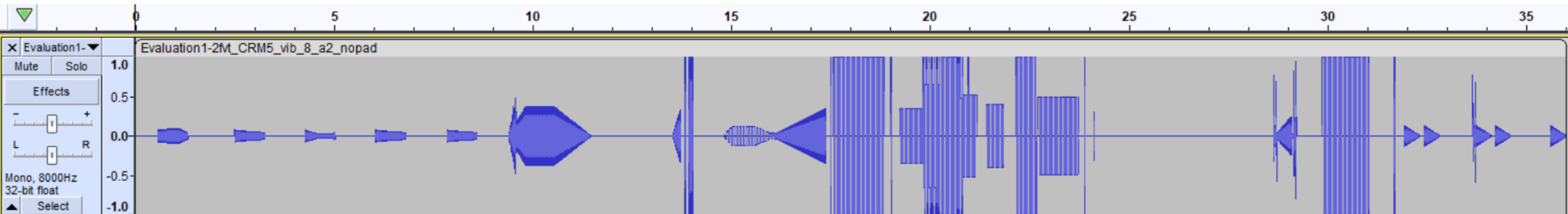
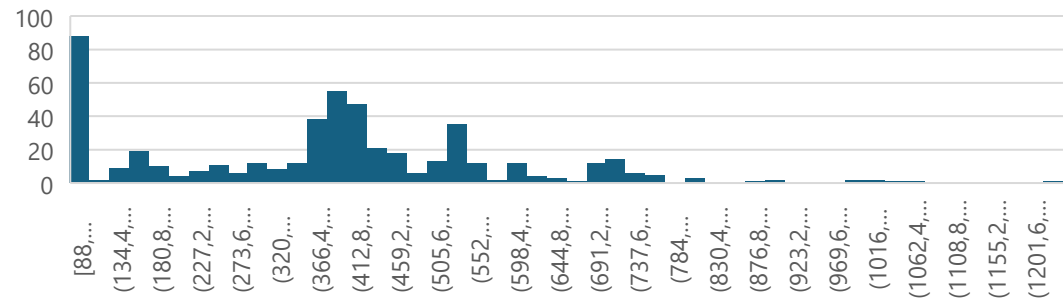
bitrate (kbps)



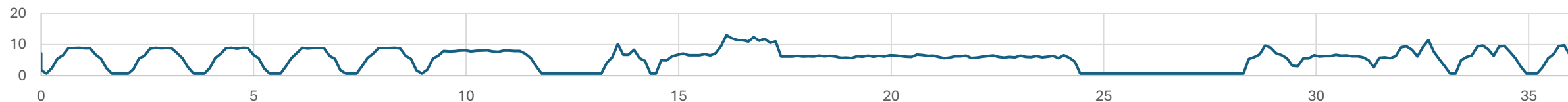
Test File 2 - PCM

- 00:36 secs
- 6.34 Kbps
- 506 packets including
 - 6 metadata packets
 - 500 data packets

Distribution of packet sizes (bits) - File 2 PCM



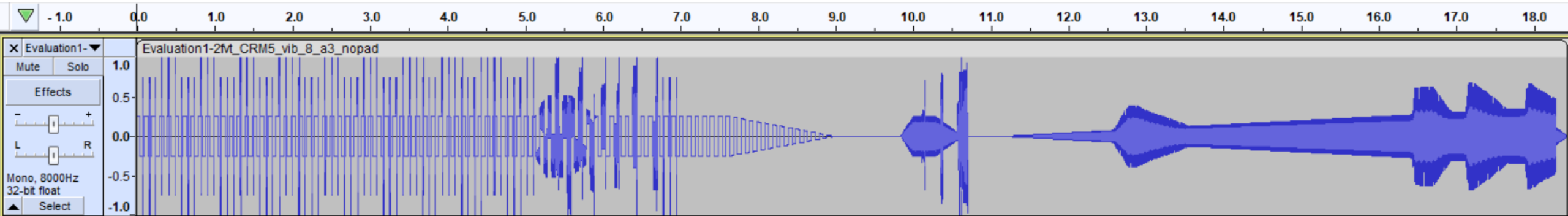
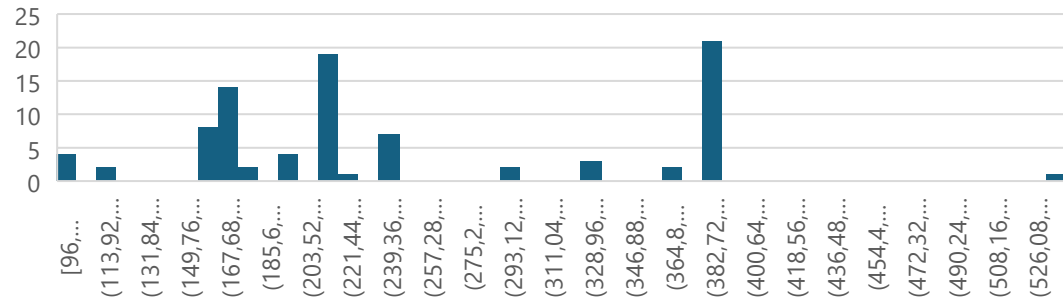
bitrate (kbps) - File 2 PCM



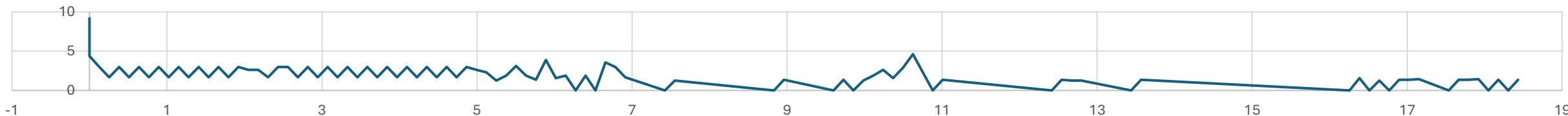
Test File 3 - Parametric

- 00:18 secs
- 1.70 Kbps
- Nb packets: 90 packets
 - 7 metadata packets
 - 83 data packets
- 15 Silent Units

Distribution of packet sizes (bits) - File 3 parametric



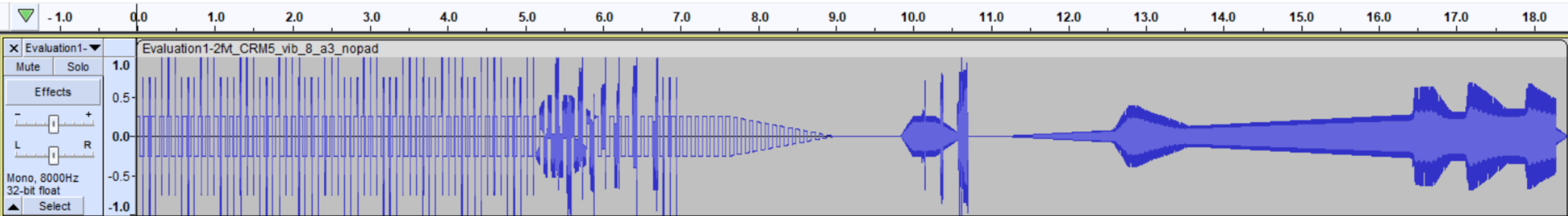
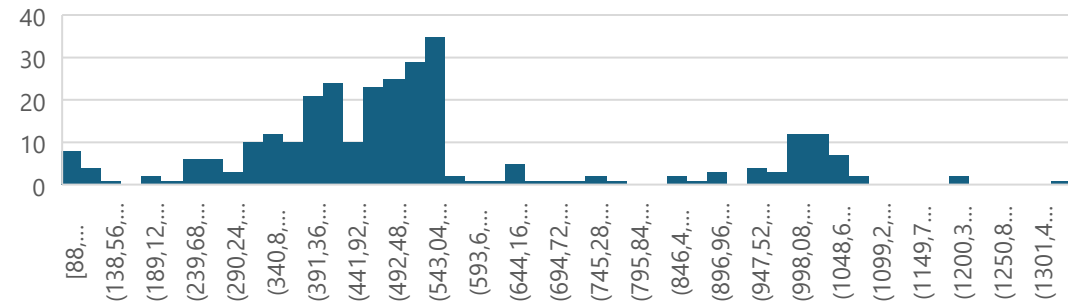
bitrate (kbps)



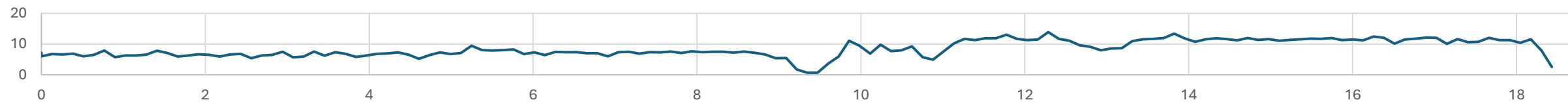
Test File 3 - PCM

- 00:18 secs
- 9,55 Kbps
- Nb packets: 294 packets
 - 6 metadata packets
 - 288 data packets

Distribution of packet sizes (bits) - File 3 PCM



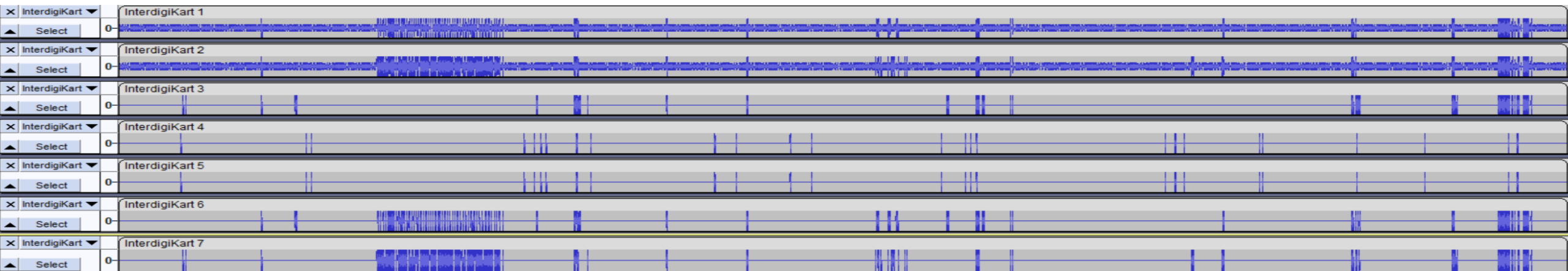
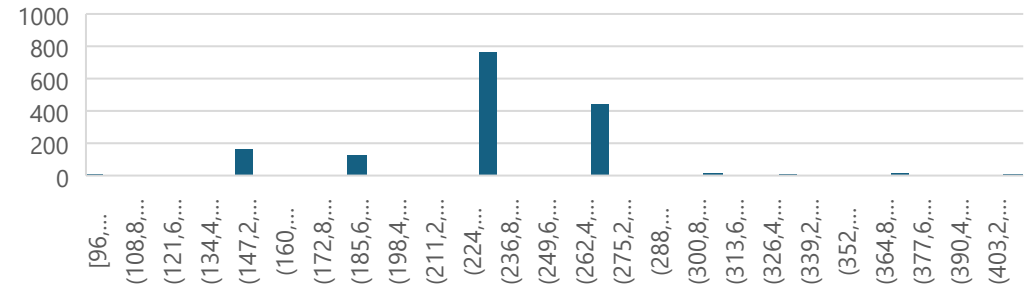
bitrate (kbps) - File 3 PCM



Test File 4 - Parametric

- 01:11 secs
- 6.24 Kbps
- Nb packets: 1586 packets
 - 19 metadata packets
 - 1567 data packets

Distribution of packet sizes (bits) - File 4 parametric



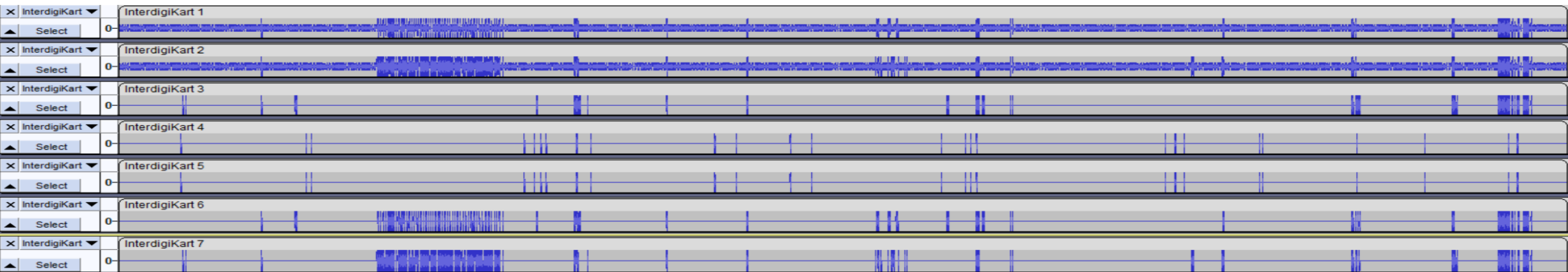
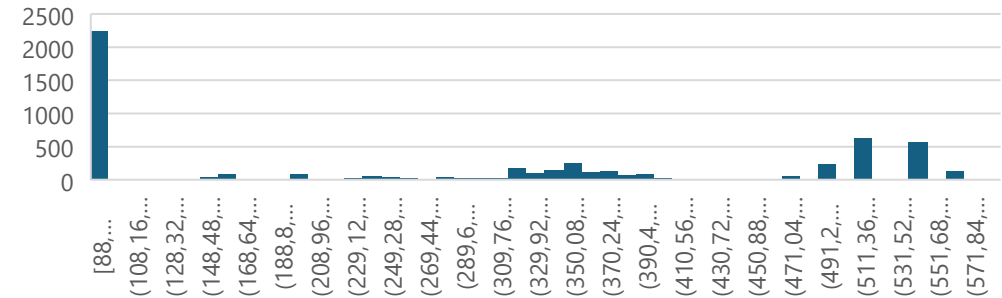
bitrate (kbps) - File 4 Parametric



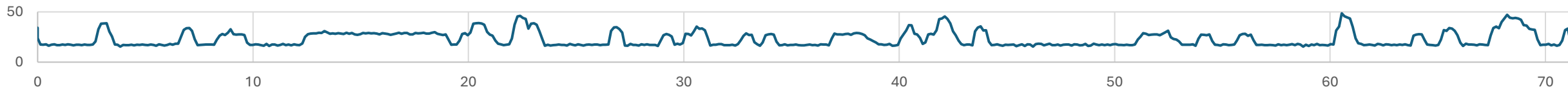
Test File 4 - PCM

- 01:11 secs
- 25.45 Kbps
- Nb packets: 5718 packets
 - 24 metadata packets
 - 5694 data packets

Distribution of packet sizes (bits) - File 4 PCM



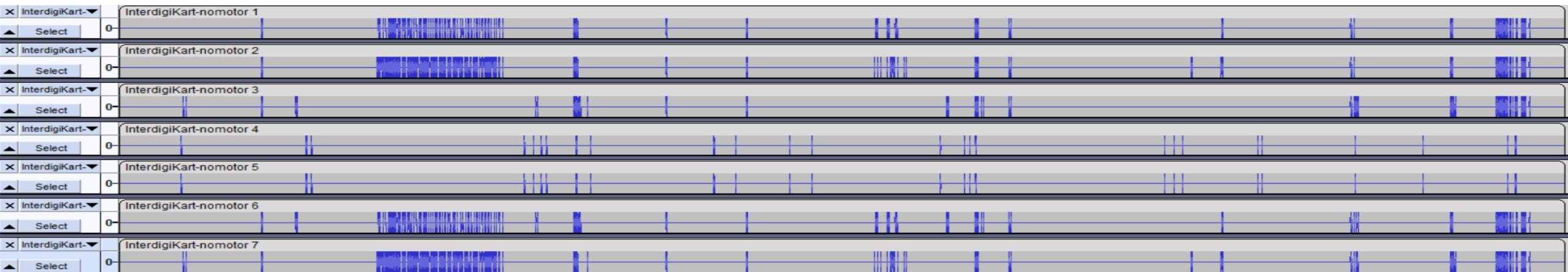
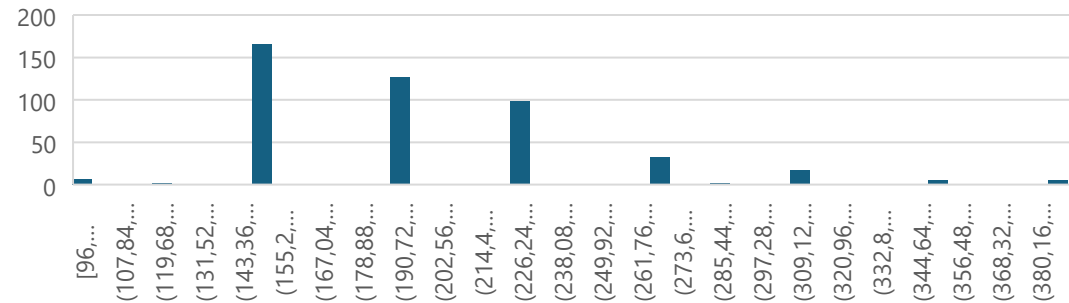
bitrate (kbps) - File 4 Parametric



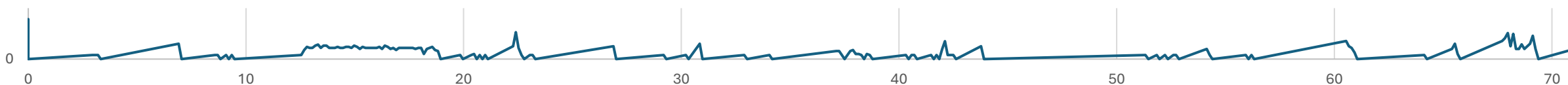
Test File 5 - Parametric

- 01:11 secs
- 1.65 Kbps
- Nb packets: 470 packets
 - 17 metadata packets
 - 453 data packets
- 39 Silent Units

Distribution of packet sizes (bits) - File 5 parametric



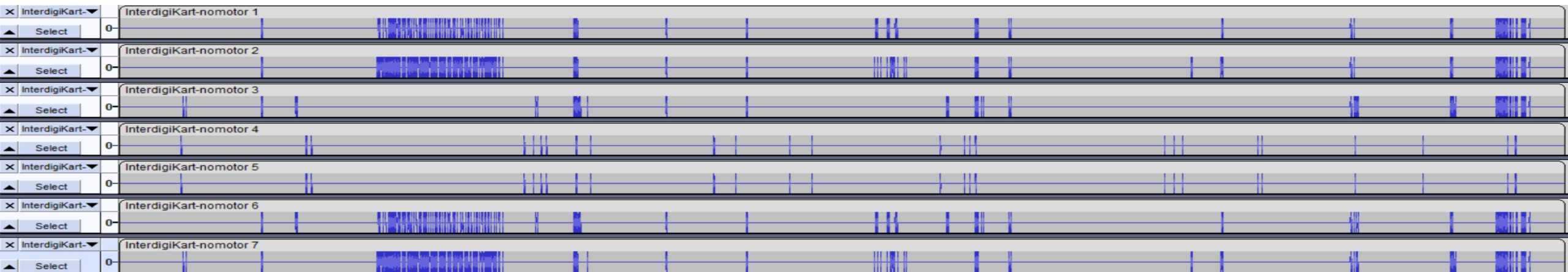
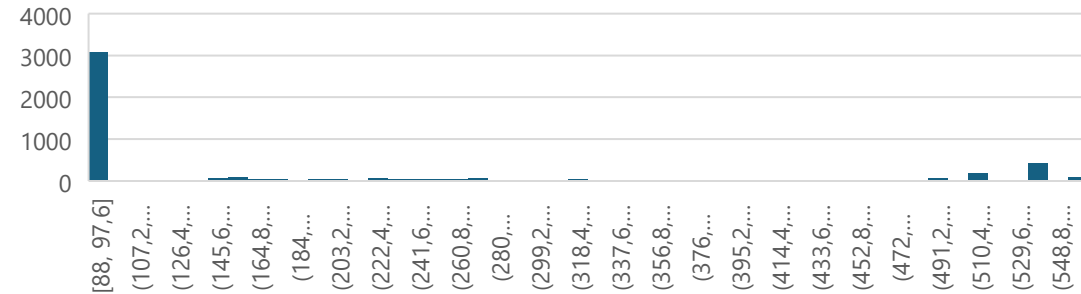
bitrate (kbps) - File 5 Parametric



Test File 5 - PCM

- 01:11 secs
- 15.54 Kbps
- Nb packets: 4904 packets
 - 24 metadata packets
 - 4880 data packets

Distribution of packet sizes (bits) - File 5 PCM



bitrate (kbps) - File 5 Parametric

