Dolby Laboratories, Inc.
Dolby Laboratories Licensing Corporation
100 Potrero Avenue
San Francisco, California 94103-4813

Tel. 415-558-0200
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April 7, 2009

Bill Lin
VisualOn, Inc.
959 S Winchester Blvd, Suite 201A
Campbell, CA 95008

Dear Bill Lin:

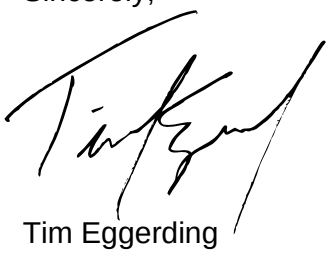
Please see the enclosed engineering report number DDCD7259 for the voAC3Dec made by VisualOn, Inc., which performs 5.1-channel Dolby Digital decoding.

The performance of the voAC3Dec met all of our requirements for 5.1-channel Dolby Digital decoding, and we are pleased to give the design our approval. Congratulations! The voAC3Dec is now approved for 5.1-channel Dolby Digital decoding.

Please send us the data sheet for your implementation, along with any other name(s) that will appear on your final product to be released to manufacturers. This will allow our Product Evaluation Group to easily trace this name to an approved implementation.

Please send the above information and any questions you may have regarding this report to me at tegge@dolby.com. We wish you great success in marketing your implementation.

Sincerely,



Tim Eggerding
Implementation Engineer
Implementation Group
Dolby Laboratories Licensing Corporation

DOLBY. **Dolby Laboratories Licensing Corporation**

EVALUATION REPORT NO. DDCD7259

Evaluation Report on the
voAC3Dec
which implements 5.1-channel Dolby Digital decoding
made by VisualOn, Inc.

Approved

Implementation satisfies all applicable requirements

Written by:
Tim Eggerding
7 Apr 2009

DOLBY.
Audio Technology

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Supported Features:

The voAC3Dec has been approved for 5.1-channel Dolby Digital decoding with the following features supported:

- 16 bit output
- All DRC modes
- Lt/Rt and Lo/Ro outputs
- Karaoke capable

The voAC3Dec is compliant with version 3.0 of the 5.1-channel Dolby Digital decoding development kit.

Dolby Digital Decoder Implementation Test Results

Implementation Identification

Report #	7259	Version #	1.0
Manufacturer	VisualOn, Inc.	Date Testing Began	March 30, 2009
Implementation Name/Number	voAC3Dec	Tested by	MCH
		Signed	

Implementation Type

- ☐ ASIC
- ☐ DSP
- ☒ Software
  - OS: Microsoft
- ☒ Other: Static Library

Implementation Details

- ☒ Two-Channel
- ☒ 5.1-Channel

Output Bit Resolution: 16

2 Performance Tests

2.1 Reference Level

L	20.004	dBFS	R	20.004	dBFS
C	20.004	dBFS	LFE	20.147	dBFS
Ls	20.004	dBFS	Rs	20.004	dBFS

Comments: Pass

2.2 Frequency Response

Response Limits:

L	+/-	0.004	dB	R	+/-	0.004	dB
C	+/-	0.004	dB	LFE	+/-	0.147	dB
Ls	+/-	20.004	dB	Rs	+/-	20.004	dB

Comments: Pass

2.3 THD+N vs. Frequency

L	-93.5	dBFS
C	-93.6	dBFS
Ls	-93.5	dBFS

Comments: Pass

2.4 THD+N vs. Level (at 20 seconds)

16-bit:		18-bit:		20-bit:	
L	-94.1 dBFS	L	_____ dBFS	L	_____ dBFS
C	-94.3 dBFS				
Ls	-94.2 dBFS				

Comments: Pass

2.5 Noise Modulation vs. Level

16-bit:		18-bit:		20-bit:	
L	+/– dB	L	+/– dB	L	+/– dB
C	+/– dB				
Ls	+/– dB				

Comments: _____

2.6 Dynamic Range

16-bit:		18-bit:		20-bit:	
L	-92.8 dBFS	L	_____ dBFS	L	_____ dBFS
C	-93.3 dBFS				
Ls	-93.2 dBFS				

Comments: Pass

2.7 Spectral Accuracy

- ☐ 20 Hz @ –60 dBFS
- ☒ 200 Hz @ –60 dBFS
  - ☒ 16-bit
  - ☐ 18-bit
  - ☐ 20-bit
- ☐ 2 kHz @ –60 dBFS
- ☐ 20 kHz @ –60 dBFS

Comments: Pass

2.8 Multitone

- ☒ 16-bit
- ☐ 18-bit
- ☐ 20-bit

Comments: Pass

2.9 TPDF Noise (Dither)

- ☒ 16-bit
- ☐ 18-bit
- ☐ 20-bit

Comments: Pass

3 Listening Tests

3.1 Difficult Music

☒ difmus 1–6 Comments: Pass

3.2 Difficult Multitone

☐ difmlt 1–15 Comments: _____

3.3 Error Concealment

☒ ec1.ac3 Comments: Pass
☒ ec2.ac3 Comments: Pass
☒ ec3.ac3 Comments: Pass
☒ ec4.ac3 Comments: Pass
☒ ec5.ac3 Comments: Pass

3.4 Advanced Bitstreams

☒ advnc 1–4 Comments: Pass

3.5 Encoder/Decoder Compatibility

☒ Dolby Digital Consumer Encoder Comments: Pass

☒ Dolby Digital Interactive Content Encoder Comments: Pass

3.6 Extended Bitstream Compatibility

☒ dmm.ac3 Comments: Pass
☒ exm.ac3 Comments: Pass
☒ dhm.ac3 Comments: Pass
☒ adct.ac3 Comments: Pass

4 Functional Tests

4.1 Audio Coding Mode

☒ 1+1	☒ 2_0	☒ 3_0	☐ Sweep
☒ 1_0	☒ 2_1	☒ 3_1	
	☒ 2_2	☒ 3_2	

Comments: Pass

4.2 Data Rate (kbps)

☒ 32	☒ 64	☒ 128	☒ 256	☒ 512
☒ 40	☒ 80	☒ 160	☒ 320	☒ 576
☒ 48	☒ 96	☒ 192	☒ 384	☒ 640
☒ 56	☒ 112	☒ 224	☒ 448	☐ Sweep

Comments: Pass

4.3 Sample Rate

☒ 32 kHz ☒ 44.1 kHz ☒ 48 kHz ☐ Sweep

Comments: Pass

4.4 Dialog Normalization

☒ Line Mode: Plot resembles a staircase which decreases by 1 dB every 2 seconds
☒ Custom 0 Mode: Plot is a flat line at 0 dBFS
Comments: Pass

4.5 Dynamic Range Compression

☒ Line Mode Comments: Pass
☒ Custom 0 Mode Comments: Pass
☒ Custom 1 Mode Comments: Pass
☒ RF Mode Comments: Pass

4.6 Output Mode (Downmix)

4.6.1 Stereo Downmix Cancellation

☒ 2/0 (Lo/Ro)
☒ 2/0 (Lt/Rt)
Comments: Pass

4.6.2 Output Mode Levels

☒ **3/2**

Bitstream	Left	Right	Center	Ls	Rs
dwnm5.ac3	☒ 1 kHz @ –20	☒ 4 kHz @ –20	☒ 2 kHz @ –20	☒ 500 Hz @ –23	☒ 500 Hz @ –23

☒ **3/0**

Bitstream	Left	Right	Center	Ls	Rs
dwnm1.ac3	☒ 1 kHz @ –20 ☒ 500 Hz @ –23	☒ 4 kHz @ –20 ☒ 8 kHz @ –23	☒ 2 kHz @ –20	☒ none	☒ none
dwnm4.ac3	☒ 1 kHz @ –20 ☒ 500 Hz @ –26	☒ 4 kHz @ –20 ☒ 8 kHz @ –26	☒ 2 kHz @ –20	☒ none	☒ none
dwnm5.ac3	☒ 1 kHz @ –20 ☒ 500 Hz @ –26	☒ 4 kHz @ –20 ☒ 500 Hz @ –26	☒ 2 kHz @ –20	☒ none	☒ none
dwnm6.ac3	☒ 1 kHz @ –20 ☒ 500 Hz @ –29	☒ 4 kHz @ –20 ☒ 500 Hz @ –29	☒ 2 kHz @ –20	☒ none	☒ none

☒ **2/2**

Bitstream	Left	Right	Center	Ls	Rs
dwnm1.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –23	☒ none	☒ 500 Hz @ –20	☒ 8 kHz @ –20
dwnm2.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –24.5	☒ 4 kHz @ –20 ☒ 2 kHz @ –24.5	☒ none	☒ 500 Hz @ –20	☒ 8 kHz @ –20
dwnm3.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –26	☒ 4 kHz @ –20 ☒ 2 kHz @ –26	☒ none	☒ 500 Hz @ –20	☒ 8 kHz @ –20

☒ **2/0 Dolby Surround Compatible (Lt/Rt)**

Bitstream	Left	Right	Center	Ls	Rs
dwnm1.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23 ☒ 500 Hz @ –23 ☒ 8 kHz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –23 ☒ 500 Hz @ –23 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none

☒ **2/0 (Lo/Ro)**

Bitstream	Left	Right	Center	Ls	Rs
dwnm1.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23 ☒ 500 Hz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –23 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none
dwnm2.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –24.5 ☒ 500 Hz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –24.5 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none
dwnm3.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –26 ☒ 500 Hz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –26 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none
dwnm4.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23 ☒ 500 Hz @ –26	☒ 4 kHz @ –20 ☒ 2 kHz @ –23 ☒ 8 kHz @ –26	☒ none	☒ none	☒ none

☒ **1/0**

Bitstream	Left	Right	Center	Ls	Rs
dwnm1.ac3	☒ none	☒ none	☒ 2 kHz @ –20 [–29] ☒ 1 kHz @ –23 [–26] ☒ 4 kHz @ –23 [–26] ☒ 500 Hz @ –26 [–29] ☒ 8 kHz @ –26 [–29]	☒ none	☒ none
dwnm2.ac3	☒ none	☒ none	☒ 2 kHz @ –21.5 [–30.5] ☒ 1 kHz @ –23 [–26] ☒ 4 kHz @ –23 [–26] ☒ 500 Hz @ –26 [–29] ☒ 8 kHz @ –26 [–29]	☒ none	☒ none
dwnm3.ac3	☒ none	☒ none	☒ 2 kHz @ –23 [–32] ☒ 1 kHz @ –23 [–26] ☒ 4 kHz @ –23 [–26] ☒ 500 Hz @ –26 [–29] ☒ 8 kHz @ –26 [–29]	☒ none	☒ none
dwnm4.ac3	☒ none	☒ none	☒ 2 kHz @ –20 [–29] ☒ 1 kHz @ –23 [–26] ☒ 4 kHz @ –23 [–26] ☒ 500 Hz @ –29 [–32] ☒ 8 kHz @ –29 [–32]	☒ none	☒ none

4.7 Dual Mono

1+1 acmod

Bitstream	Dual Mono Mode	Left	Right	Center
dwnm7.ac3	Stereo	☒ 1 kHz @ –20	☒ 4 kHz @ –24	☒ 1 kHz @ –26 ☒ 4 kHz @ –30
dwnm7.ac3	Dual Left	☒ 1 kHz @ –23 [–26]	☒ 1 kHz @ –23 [–26]	☒ 1 kHz @ –20
dwnm7.ac3	Dual Right	☒ 4 kHz @ –27 [–30]	☒ 4 kHz @ –27 [–30]	☒ 4 kHz @ –24
dwnm7.ac3	Dual Mixed	☒ 1 kHz @ –26 ☒ 4 kHz @ –30	☒ 1 kHz @ –26 ☒ 4 kHz @ –30	☒ 1 kHz @ –26 ☒ 4 kHz @ –30

4.8 Coupling

☒ Plots of coupling on and coupling off are nearly identical

Comments: Pass

4.9 Initiation of Decoding

☒ Start: All five bursts are reproduced at the beginning

☒ Stop: All five bursts are reproduced at the end

Comments: Pass

4.10 Extended Bitstream Capable

4.10.1 Stereo Downmix Levels

	2/0 Lo/Ro	2/0 Lt/Rt
Center Mix Level	☒	☒
Surround Mix Level	☒	☒

Comments Pass

4.10.2 Preferred Stereo Downmix

☒ Complete Cancellation

Comments Pass

4.10.3 Overload Protection

☒ 2/0 Lt/Rt: No observable distortion, saturation, or wraparound in the wave form

☒ 2/0 Lo/Ro: No observable distortion, saturation, or wraparound in the wave form

Comments Pass

4.11 Dolby Surround Flag Recognition

☐ Detection of surround flag

Comments

5 Optional Features

5.1 Karaoke

Note: If panning is implemented as in the Dolby Digital C source code, results will be different from those listed here. Please refer to the Karaoke Capable section in *Dolby Digital FAQs* for more information.

☐ Karaoke Aware: 2/0 Lt/Rt Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☐ 1 kHz @ –20 ☐ 2 kHz @ –23 ☐ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 2 kHz @ –23 ☐ 8 kHz @ –23	☐ none	☐ none	☐ none
kara2.ac3	☐ 1 kHz @ –20 ☐ 2 kHz @ –24.5 ☐ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 2 kHz @ –24.5 ☐ 8 kHz @ –23	☐ none	☐ none	☐ none
kara3.ac3	☐ 1 kHz @ –20 ☐ 2 kHz @ –26 ☐ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 2 kHz @ –26 ☐ 8 kHz @ –23	☐ none	☐ none	☐ none
kara4.ac3	☐ 1 kHz @ –20 ☐ 2 kHz @ –23 ☐ 500 Hz @ –26	☐ 4 kHz @ –20 ☐ 2 kHz @ –23 ☐ 8 kHz @ –26	☐ none	☐ none	☐ none

☐ Karaoke Aware: 3/2 Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☐ 1 kHz @ –20 ☐ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 8 kHz @ –23	☐ 2 kHz @ –20	☐ none	☐ none
kara2.ac3	☐ 1 kHz @ –20 ☐ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 8 kHz @ –23	☐ 2 kHz @ –20	☐ none	☐ none
kara3.ac3	☐ 1 kHz @ –20 ☐ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 8 kHz @ –23	☐ 2 kHz @ –20	☐ none	☐ none
kara4.ac3	☐ 1 kHz @ –20 ☐ 500 Hz @ –26	☐ 4 kHz @ –20 ☐ 8 kHz @ –26	☐ 2 kHz @ –20	☐ none	☐ none
kara5.ac3	☐ 1 kHz @ –20	☐ 4 kHz @ –20	☐ 500 Hz @ –23	☐ none	☐ none
kara6.ac3	☐ 1 kHz @ –20	☐ 4 kHz @ –20	☐ 500 Hz @ –26	☐ none	☐ none

☒ Karaoke Capable: None Mode, 2/0 Lt/Rt Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –23	☒ none	☒ none	☒ none
kara2.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –24.5	☒ 4 kHz @ –20 ☐ 2 kHz @ –24.5	☒ none	☒ none	☒ none
kara3.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –26	☒ 4 kHz @ –20 ☐ 2 kHz @ –26	☒ none	☒ none	☒ none

☒ Karaoke Capable: None Mode, 3/2 Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20	☒ 4 kHz @ –20	☒ 2 kHz @ –20	☒ none	☒ none

☒ Karaoke Capable: V1 Mode, 2/0 Lt/Rt Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23 ☒ 500 Hz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –23 ☒ 500 Hz @ –23	☒ none	☒ none	☒ none
kara2.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –24.5 ☒ 500 Hz @ –23	☐ 4 kHz @ –20 ☐ 2 kHz @ –24.5 ☒ 500 Hz @ –23	☒ none	☒ none	☒ none
kara3.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –26 ☒ 500 Hz @ –23	☒ 4 kHz @ –20 ☐ 2 kHz @ –26 ☒ 500 Hz @ –23	☒ none	☒ none	☒ none

☒ Karaoke Capable: V1 Mode, 3/2 Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20	☒ 4 kHz @ –20	☒ 2 kHz @ –20 ☒ 500 Hz @ –20	☒ none	☒ none

☒ Karaoke Capable: V2 Mode, 2/0 Lt/Rt Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20 ☒ 2 kHz @ –23 ☒ 8 kHz @ –23	☒ 4 kHz @ –20 ☒ 2 kHz @ –23 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none
kara2.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –24.5 ☒ 8 kHz @ –23	☒ 4 kHz @ –20 ☐ 2 kHz @ –24.5 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none
kara3.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –26 ☒ 8 kHz @ –23	☒ 4 kHz @ –20 ☐ 2 kHz @ –26 ☒ 8 kHz @ –23	☒ none	☒ none	☒ none

☒ Karaoke Capable: V2 Mode, 3/2 Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20	☒ 4 kHz @ –20	☒ 2 kHz @ –20 ☒ 8 kHz @ –20	☒ none	☒ none

☒ Karaoke Capable: V1 + V2 Mode, 2/0 Lt/Rt Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –23 ☒ 500 Hz @ –20	☒ 4 kHz @ –20 ☐ 2 kHz @ –23 ☒ 8 kHz @ –20	☒ none	☒ none	☒ none
kara2.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –24.5 ☒ 500 Hz @ –20	☒ 4 kHz @ –20 ☐ 2 kHz @ –24.5 ☒ 8 kHz @ –20	☒ none	☒ none	☒ none
kara3.ac3	☒ 1 kHz @ –20 ☐ 2 kHz @ –26 ☒ 500 Hz @ –20	☒ 4 kHz @ –20 ☐ 2 kHz @ –26 ☒ 8 kHz @ –20	☒ none	☒ none	☒ none

☒ Karaoke Capable: V1 + V2 Mode, 3/2 Output

Bitstream	Left	Right	Center	Ls	Rs
kara1.ac3	☒ 1 kHz @ –20 ☒ 500 Hz @ –20	☒ 4 kHz @ –20 ☒ 8 kHz @ –20	☒ 2 kHz @ –20	☒ none	☒ none

5.2 Time Delay

Center Channel

☐ Fixed _____ ms

☐ Variable
Max _____ ms
Min _____ ms
Step Size _____ ms

Surround Channel

☐ Fixed _____ ms

☐ Variable
Max _____ ms
Min _____ ms
Step Size _____ ms

5.3 Bass Management

See Figures: _____

Comments: _____

5.4 Calibration Noise

☐ Bandpass filtered noise centered between 500 and 1,000 Hz

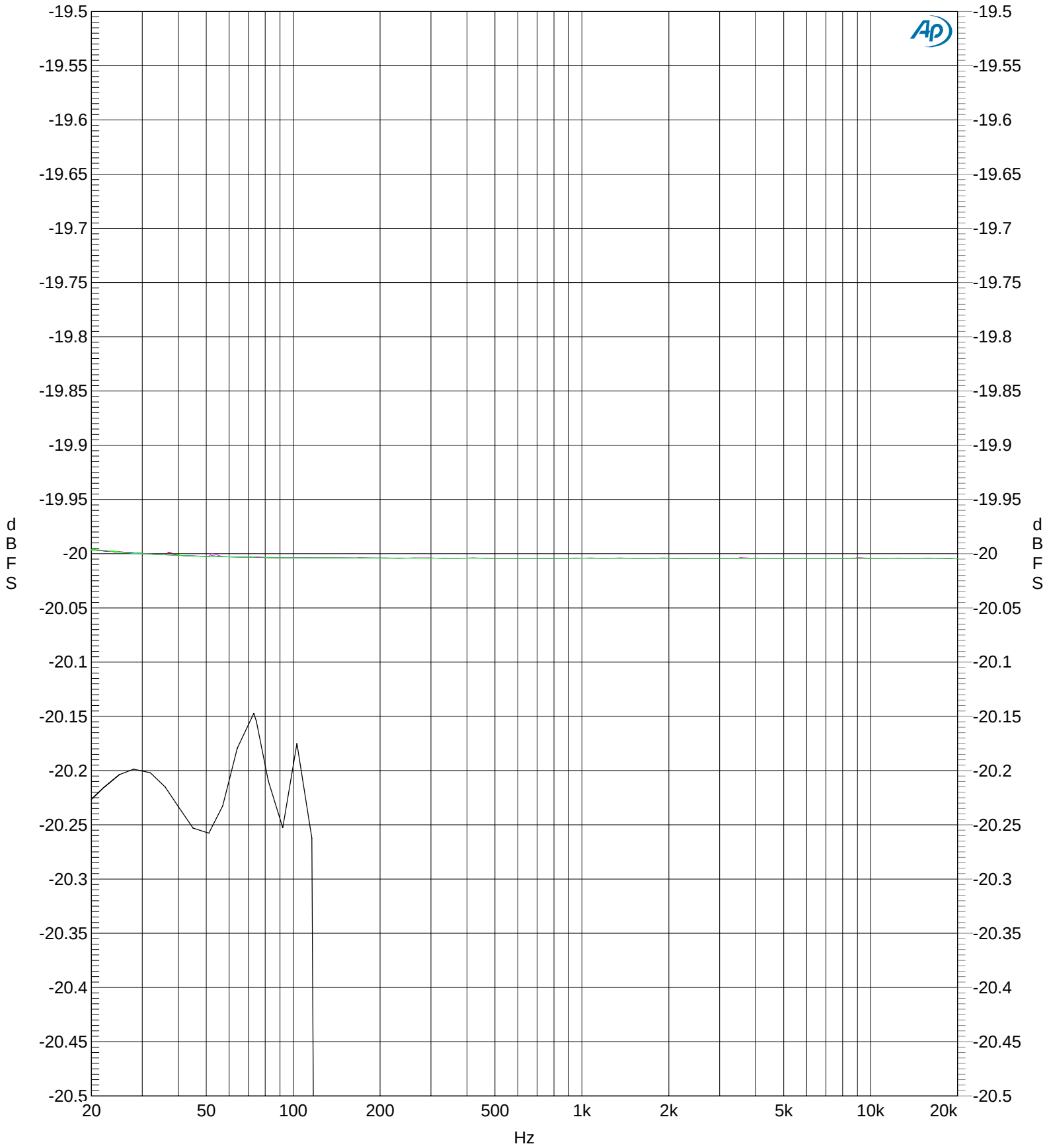
L _____ dBFS R _____ dBFS

C _____ dBFS LFE _____ dBFS

Ls _____ dBFS Rs _____ dBFS

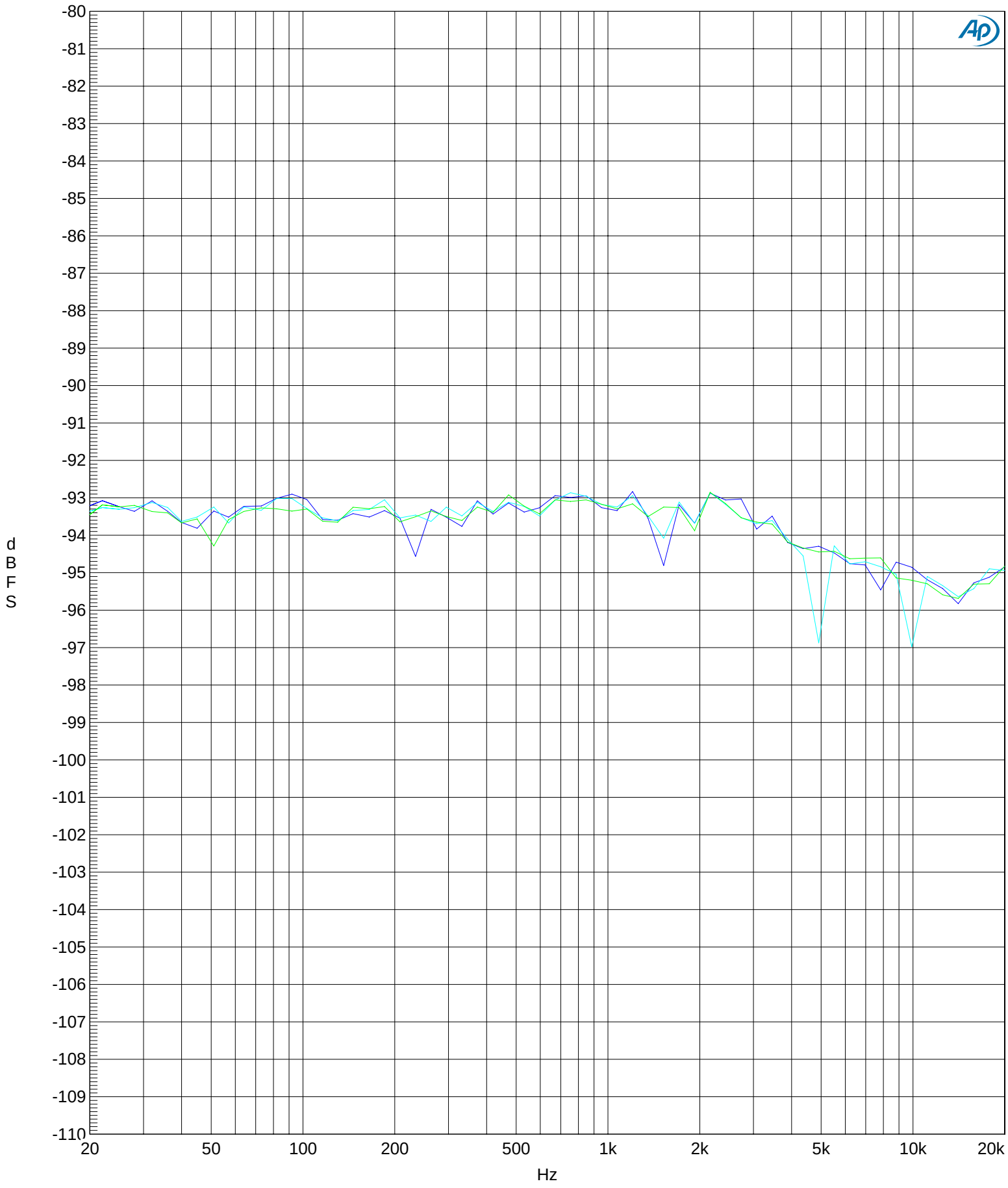
Comments: _____

Frequency Response Test [2.2]



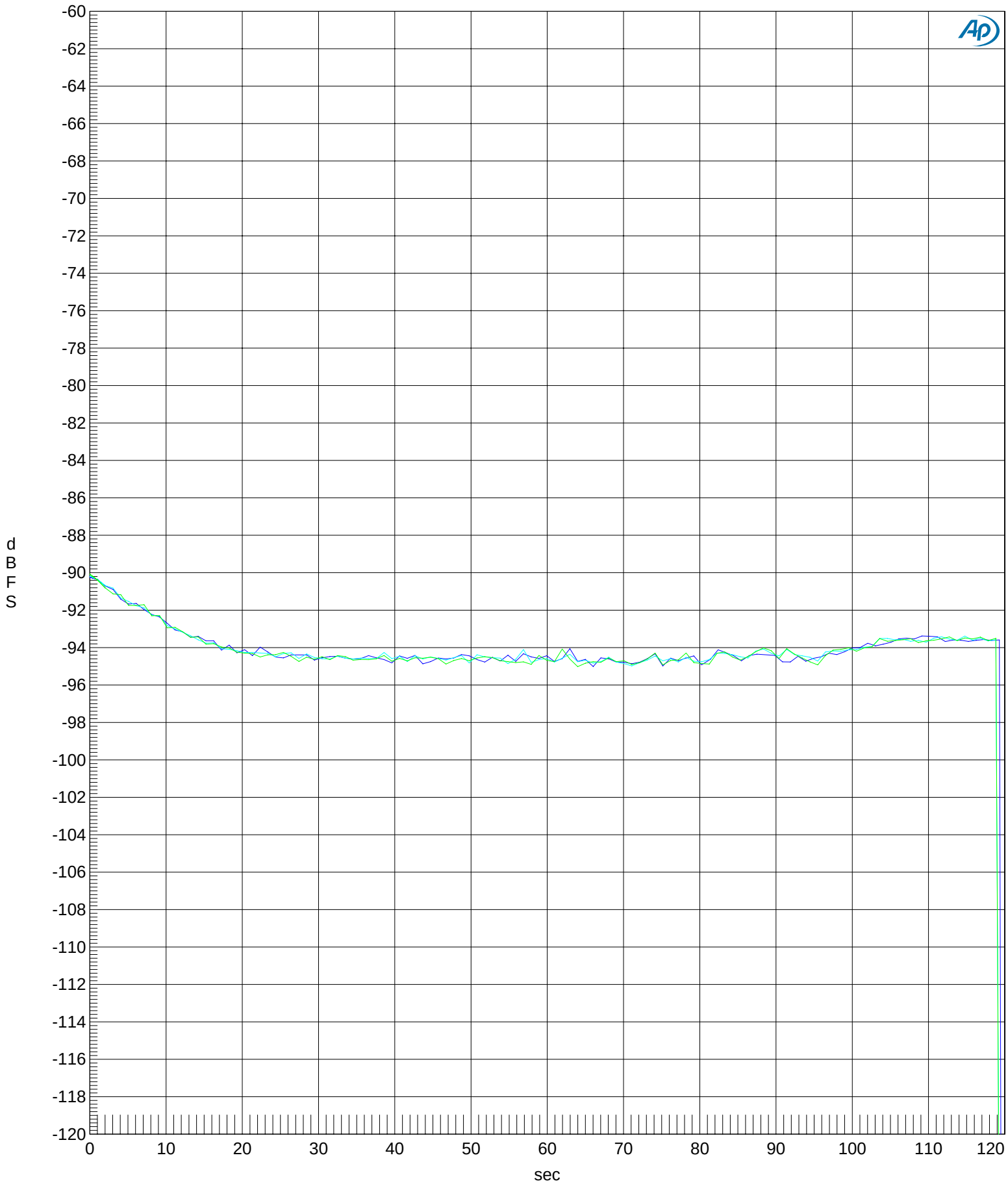
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Dot	5	DSP Anlr.Level A	Left	Left
1	2	Red	Dot	5	DSP Anlr.Level B	Right	Right
2	1	Cyan	Dot	5	DSP Anlr.Level A	Left	Ls
2	2	Magenta	Dot	5	DSP Anlr.Level B	Right	Rs
3	1	Green	Dot	5	DSP Anlr.Level A	Left	Center
3	2	Black	Dash DotDot	8	DSP Anlr.Level B	Right	LFE

THD vs. Frequency Test [2.3]



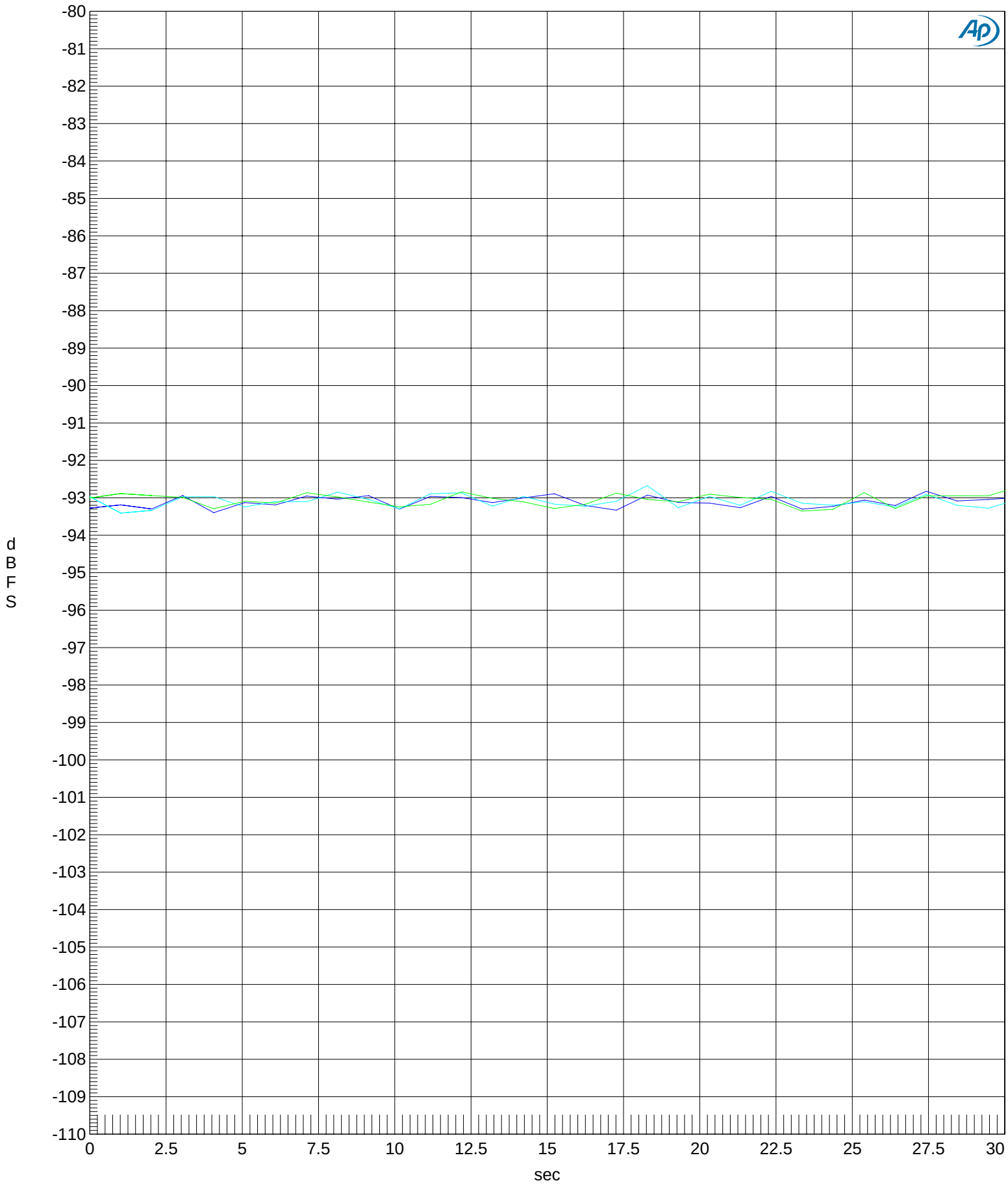
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Dot	5	DSP Anlr.THD+N Ampl A	Left	Left
2	1	Cyan	Dot	5	DSP Anlr.THD+N Ampl A	Left	Ls
3	1	Green	Dot	5	DSP Anlr.THD+N Ampl A	Left	Center

THD vs. Level Test [2.4]



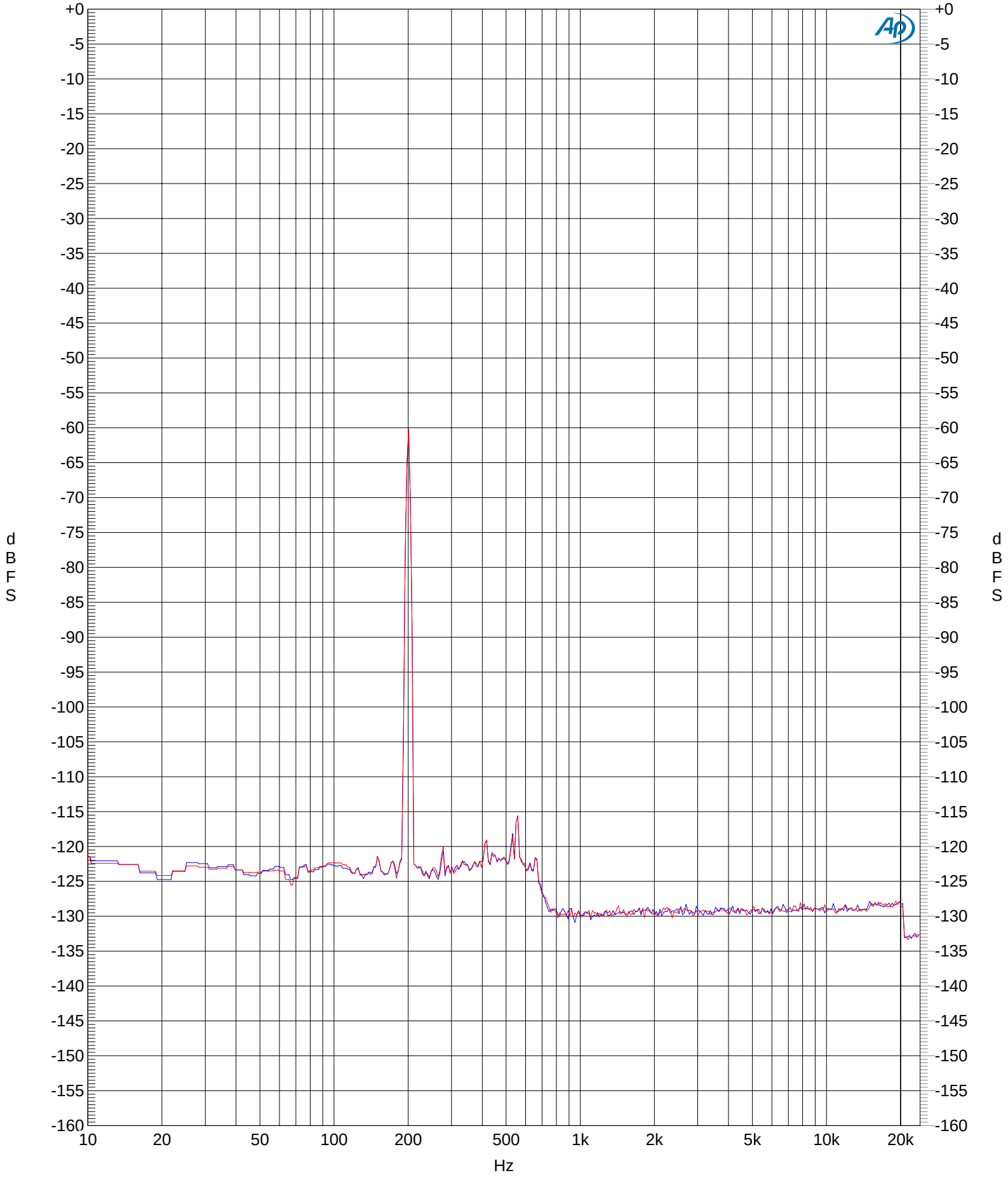
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Dot	5	DSP Anlr.THD+N Ampl A	Left	Left
2	1	Cyan	Dot	5	DSP Anlr.THD+N Ampl A	Left	Ls
3	1	Green	Dot	5	DSP Anlr.THD+N Ampl A	Left	Center

Dynamic Range Test [2.6]



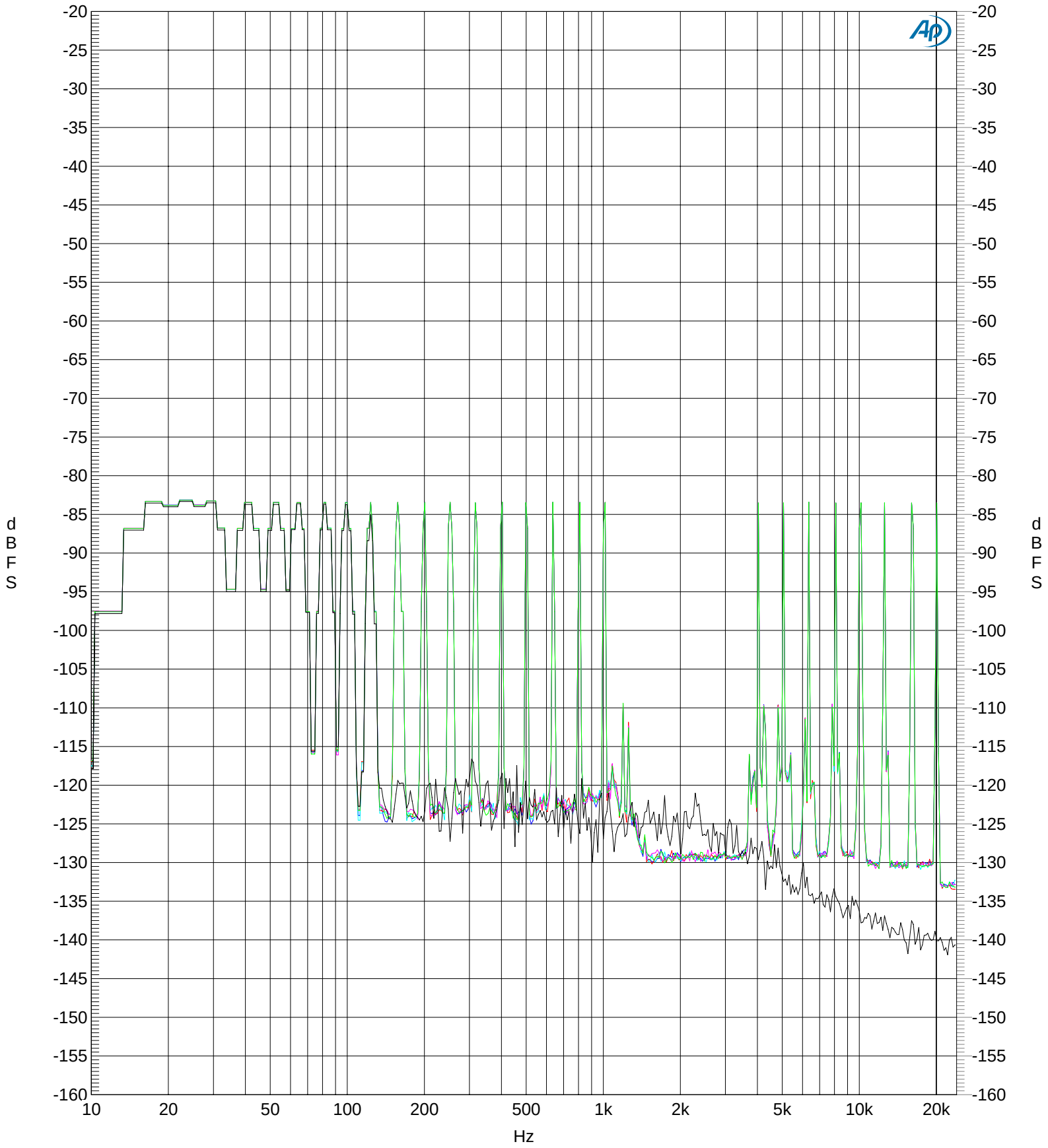
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Dot	5	DSP Anlr.THD+N Ampl A	Left	Left
2	1	Cyan	Dot	5	DSP Anlr.THD+N Ampl A	Left	Ls
3	1	Green	Dot	5	DSP Anlr.THD+N Ampl A	Left	Center

5_200_60 Test [2.7]



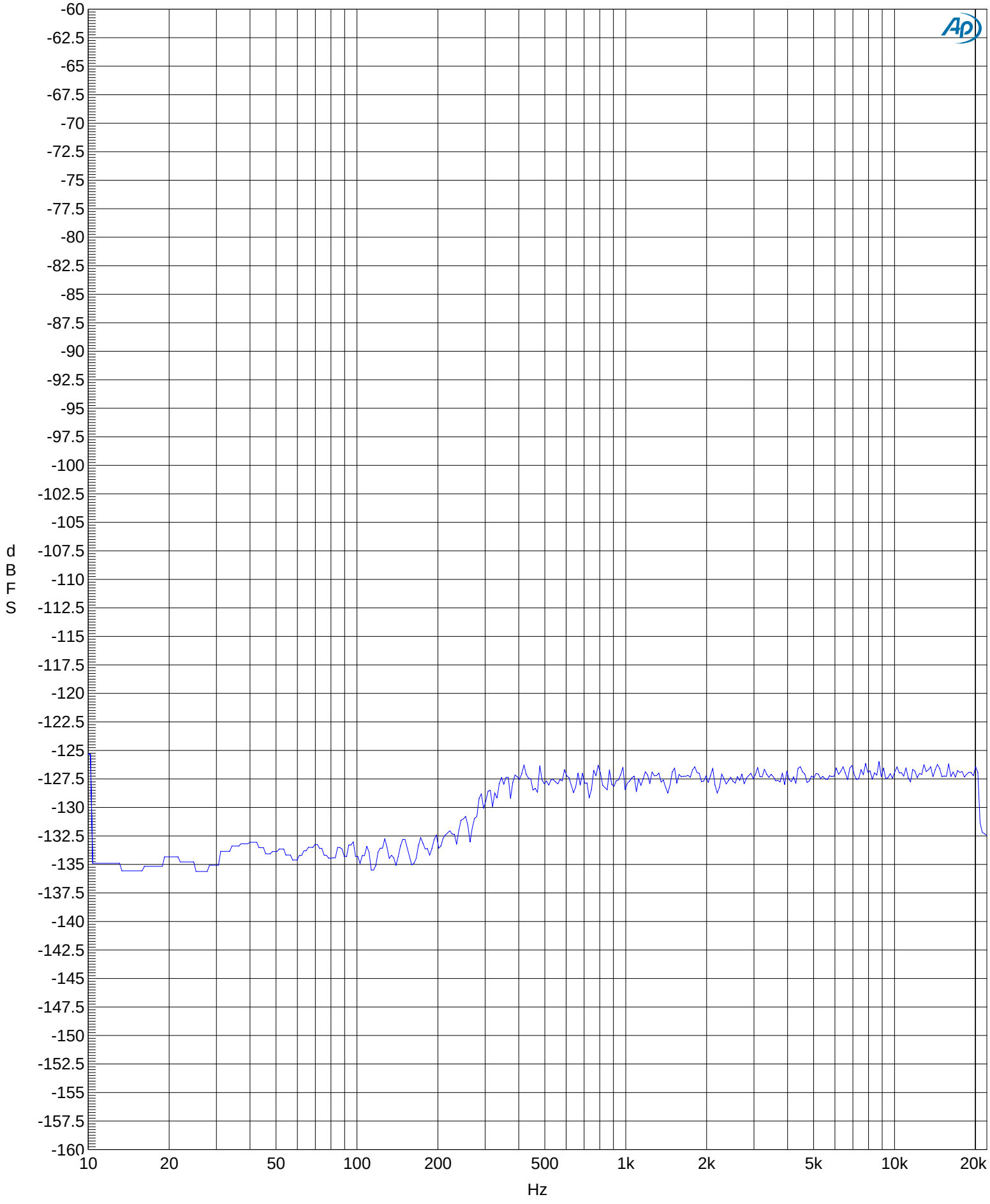
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Dot	5	Fft.Ch.1 Ampl	Left	Left
1	2	Red	Dot	5	Fft.Ch.2 Ampl	Right	Right

Mult_60 Test [2.8]



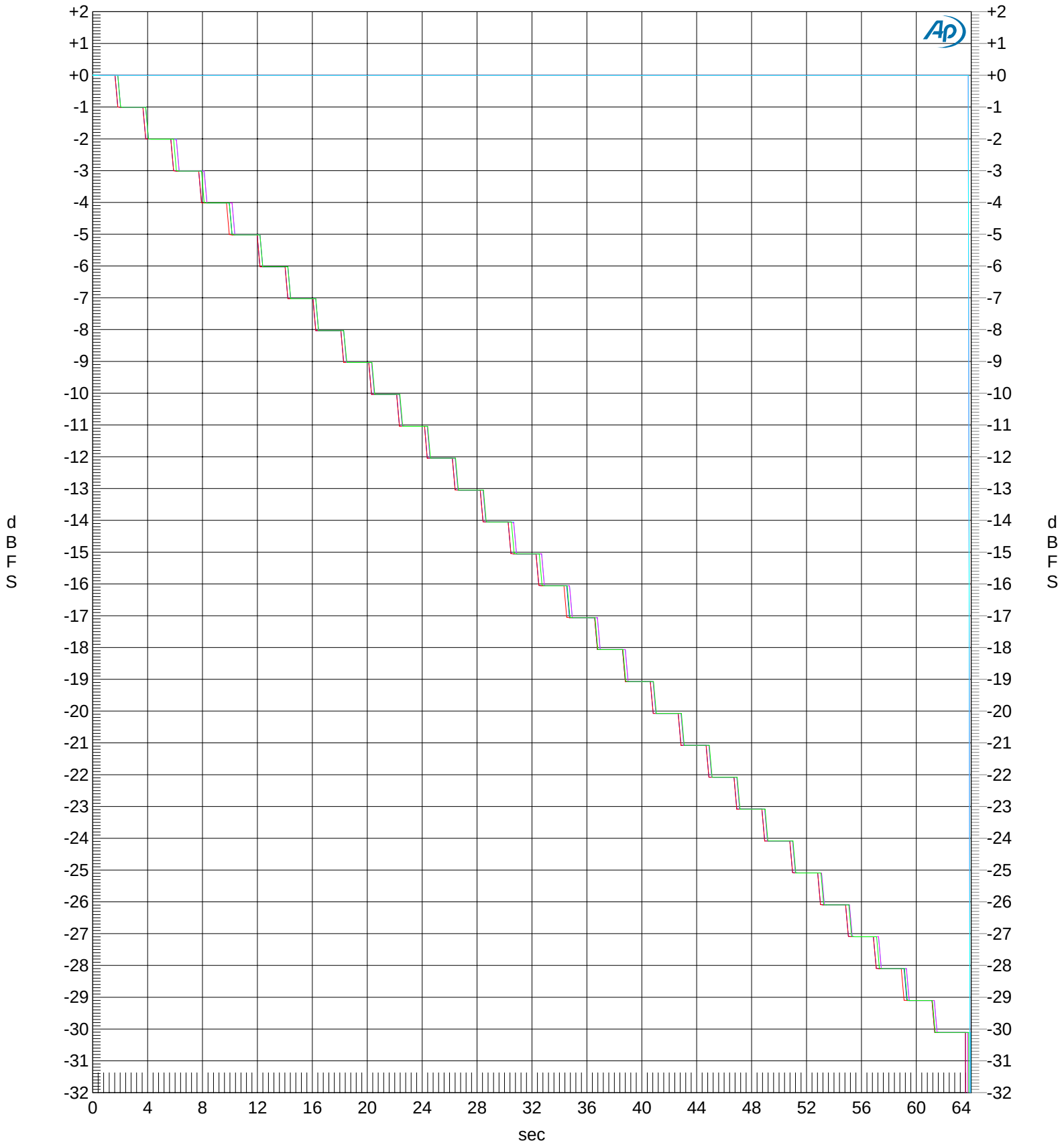
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	5	Fft.Ch.1 Ampl	Left	Left
1	2	Red	Dot	5	Fft.Ch.2 Ampl	Right	Right
2	1	Cyan	Solid	5	Fft.Ch.1 Ampl	Left	Ls
2	2	Magenta	Dot	5	Fft.Ch.2 Ampl	Right	Rs
3	1	Green	Solid	5	Fft.Ch.1 Ampl	Left	Center
3	2	Black	Dot	5	Fft.Ch.2 Ampl	Right	LFE

TPDF Test [2.9]



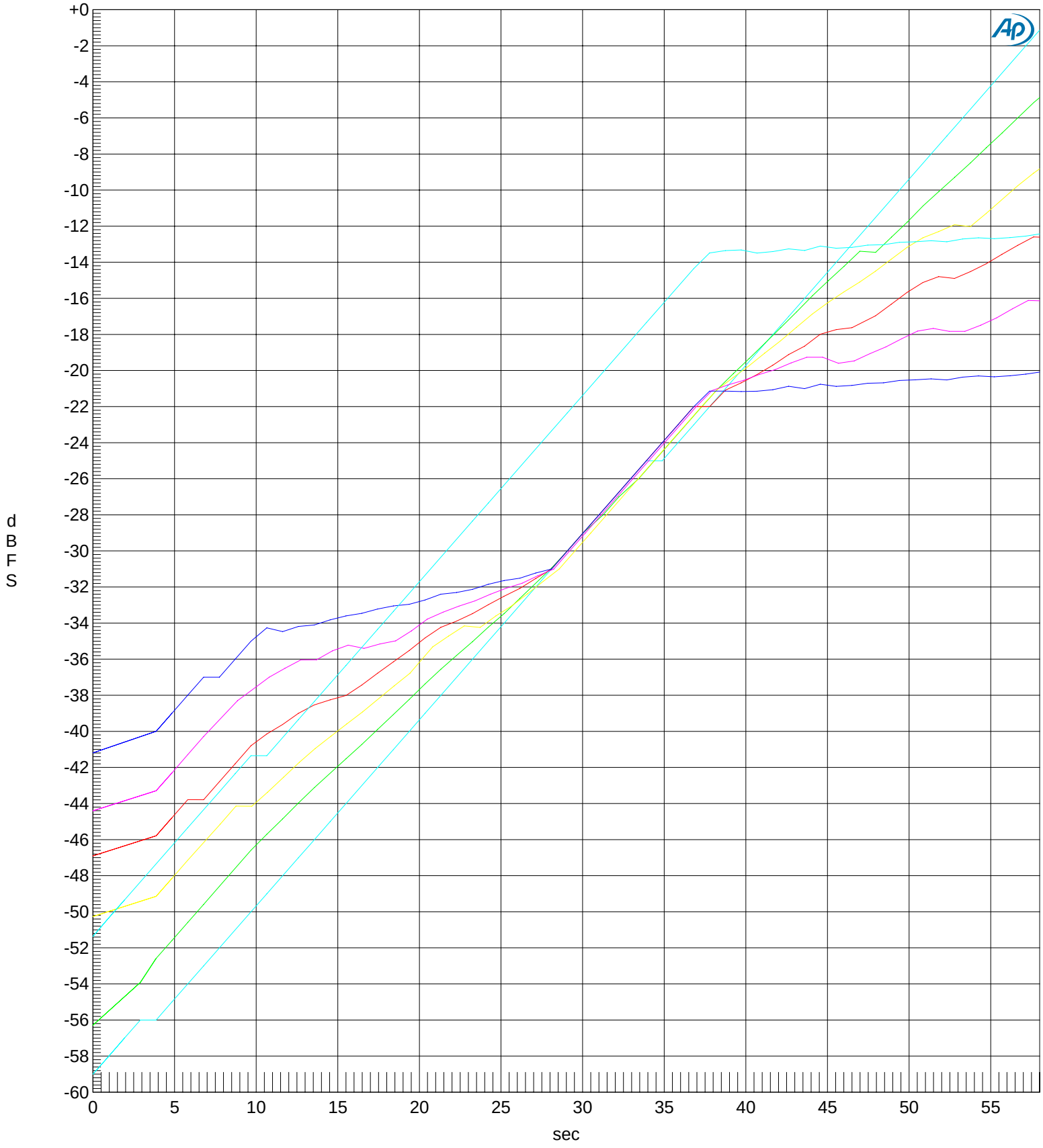
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	5	Fft.Ch.1 Ampl	Left	

5 ch. Dialnorm Sweep Test [4.4]



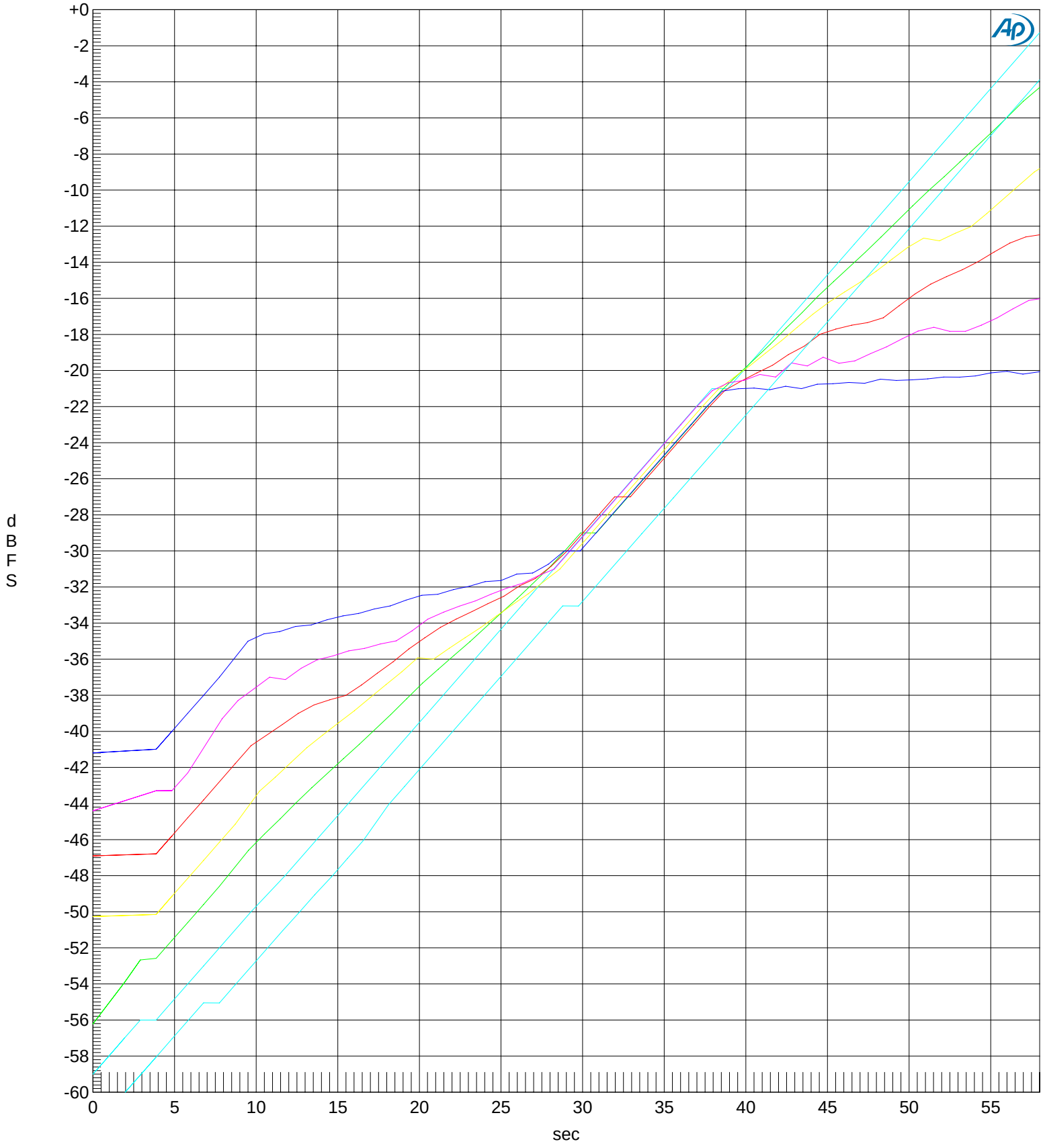
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Dot	5	DSP Anlr.Level A	Left	Left DRC Line Mode
1	2	Red	Dot	5	DSP Anlr.Level B	Right	Right
2	1	Cyan	Dot	5	DSP Anlr.Level A	Left	Ls
2	2	Magenta	Dot	5	DSP Anlr.Level B	Right	Rs
3	1	Green	Dot	5	DSP Anlr.Level A	Left	Center
4	1	Magenta	Dot	5	DSP Anlr.Level A	Left	Left DRC Custom 0
4	2	Cyan	Dot	5	DSP Anlr.Level B	Right	Right

Line Mode Compression Test [4.5.1]



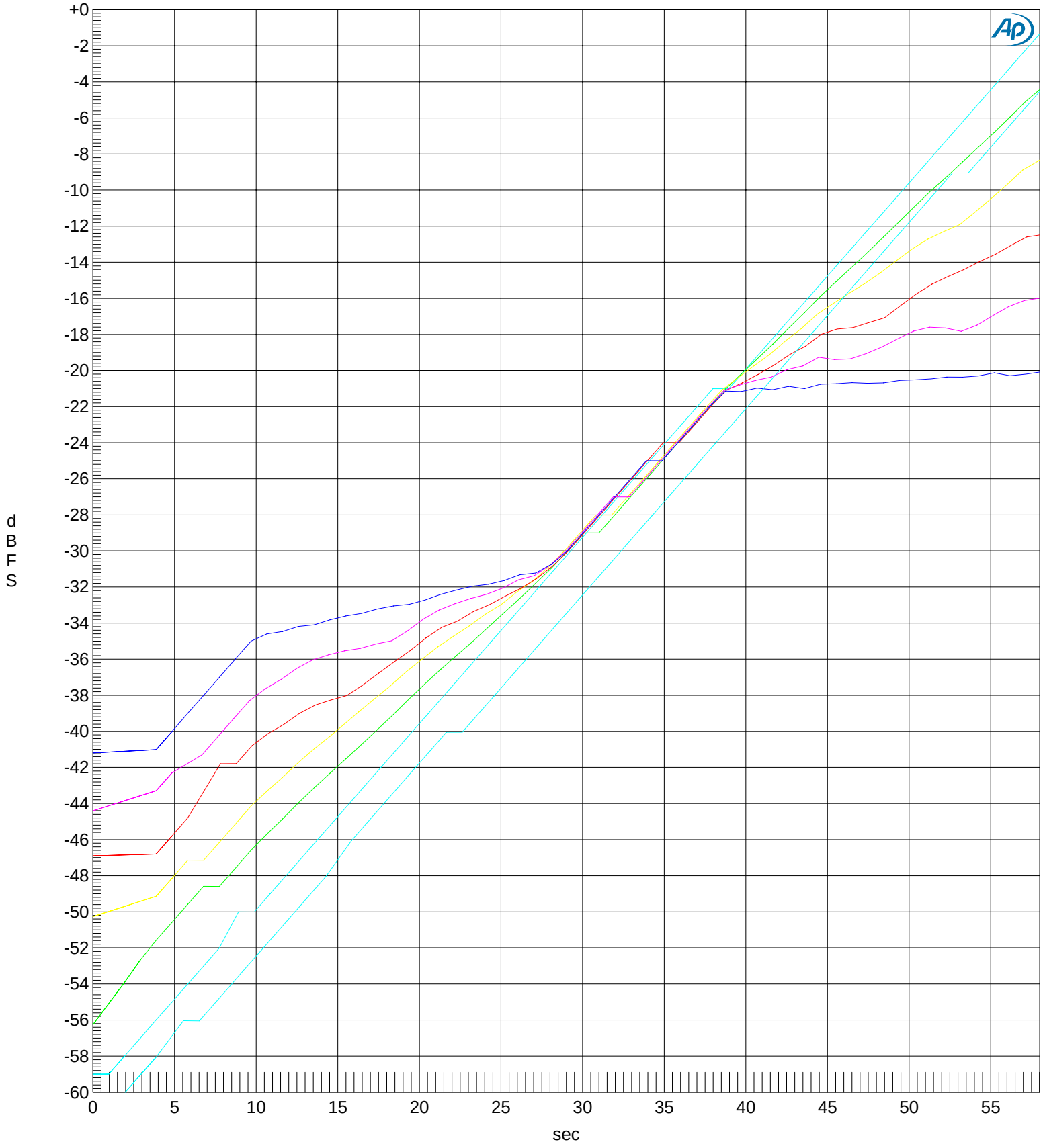
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0
2	1	Green	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.2
3	1	Yellow	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.4
4	1	Red	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.6
5	1	Magenta	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.8
6	1	Blue	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 1.0
7	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0 ACMOD 2/0

Custom Mode 0 Compression Test [4.5.2]



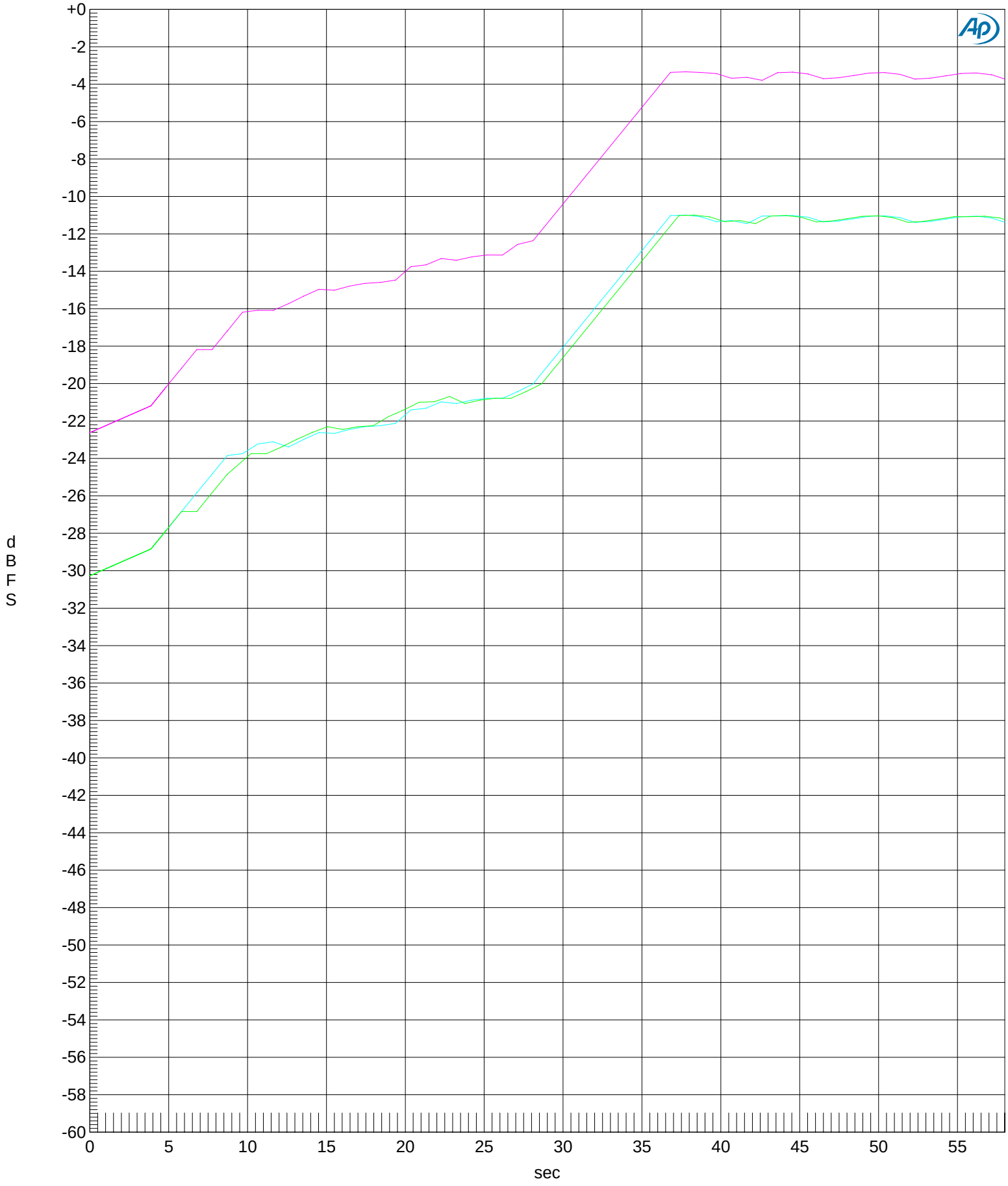
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0
2	1	Green	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.2
3	1	Yellow	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.4
4	1	Red	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.6
5	1	Magenta	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.8
6	1	Blue	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 1.0
7	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0 ACMOD 2/0

Custom Mode 1 Compression Test [4.5.3]



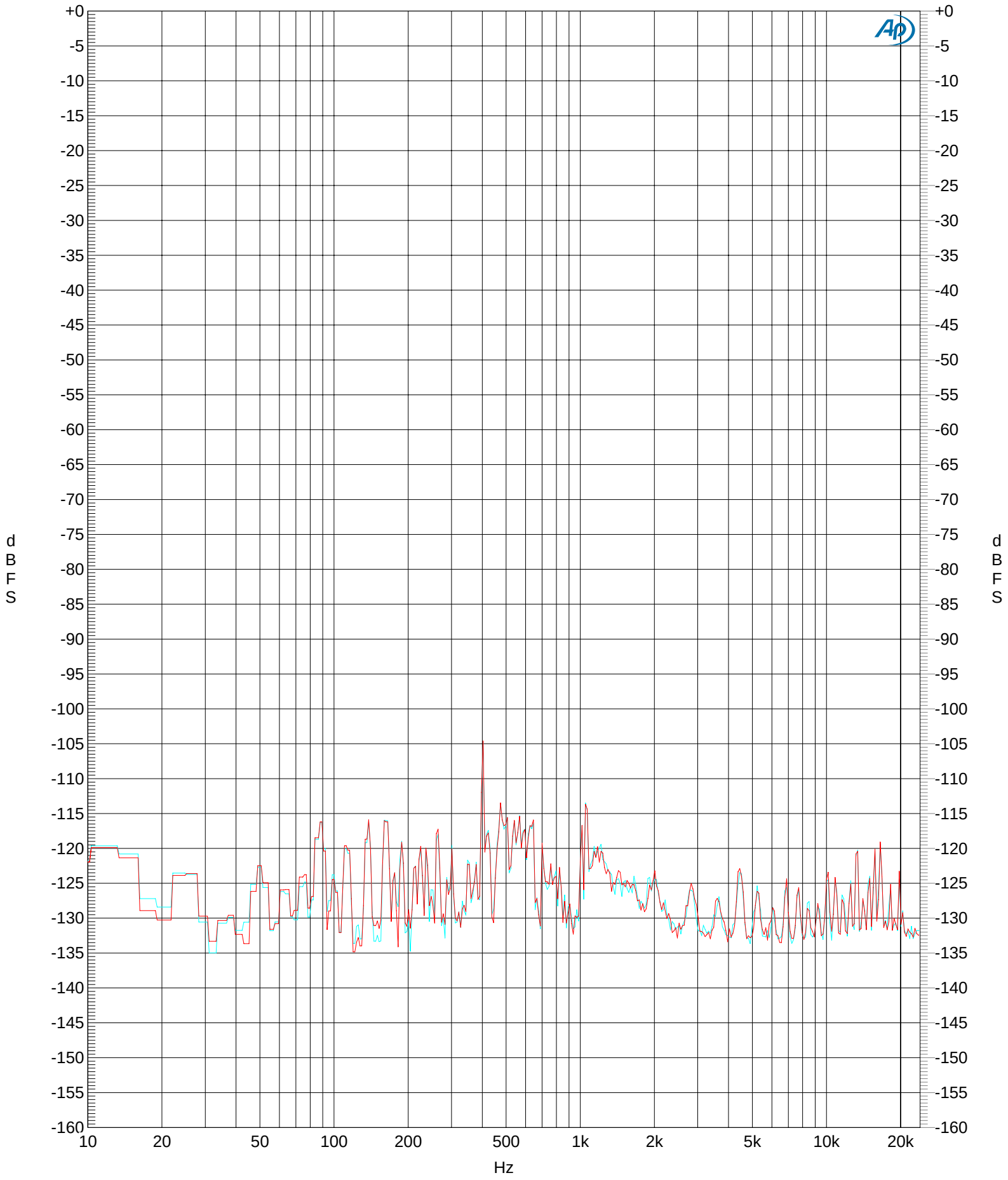
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0
2	1	Green	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.2
3	1	Yellow	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.4
4	1	Red	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.6
5	1	Magenta	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.8
6	1	Blue	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 1.0
7	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0 ACMOD 2/0

RF Mode Compression test [4.5.4]



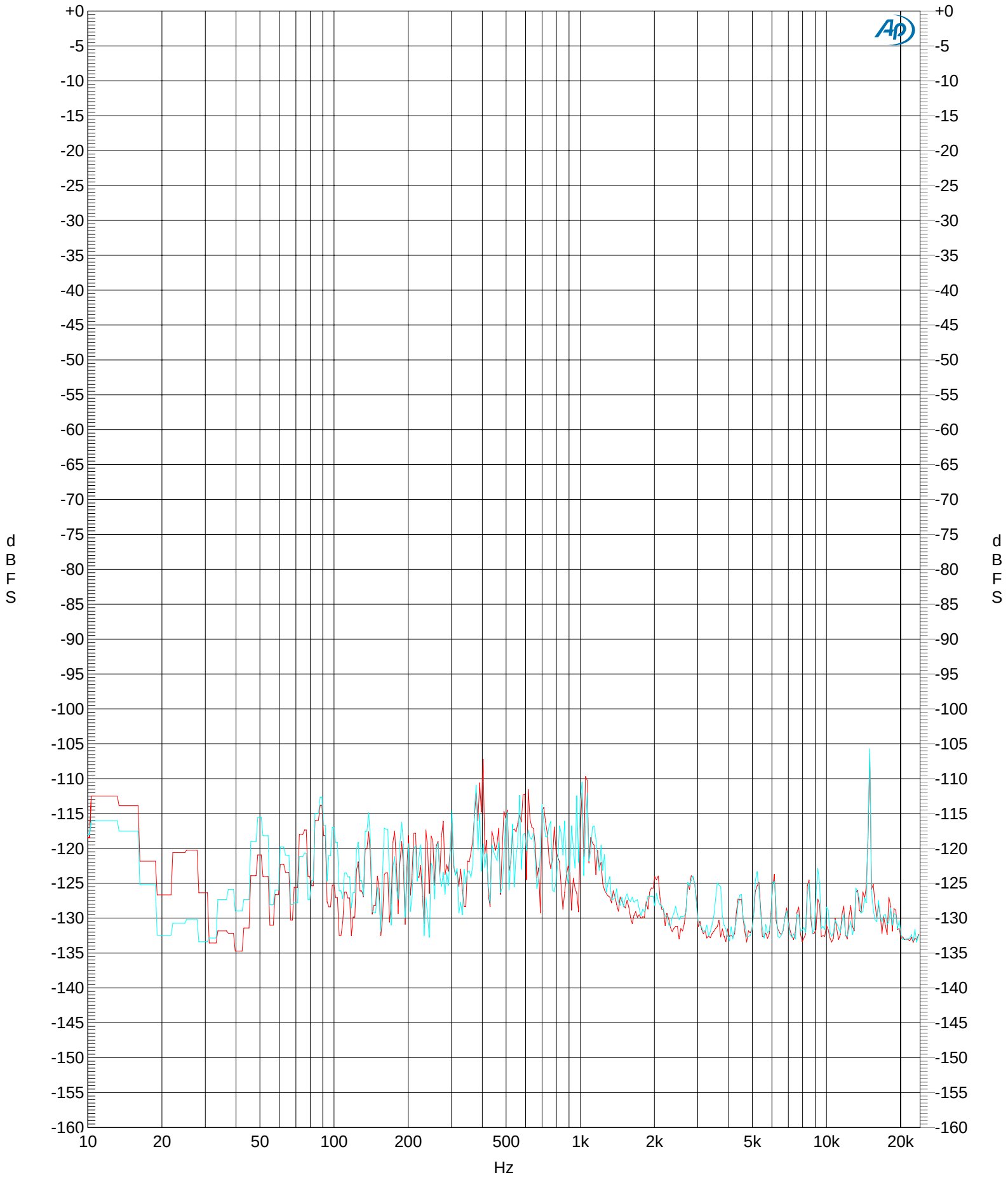
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0
2	1	Green	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 1.0
3	1	Magenta	Dot	5	DSP Anlr.Ampl A	Left	Left DRC Cut / Boost = 0.0 ACMOD 2/0

Lo/Ro Downmix Test [4.6.1.1]



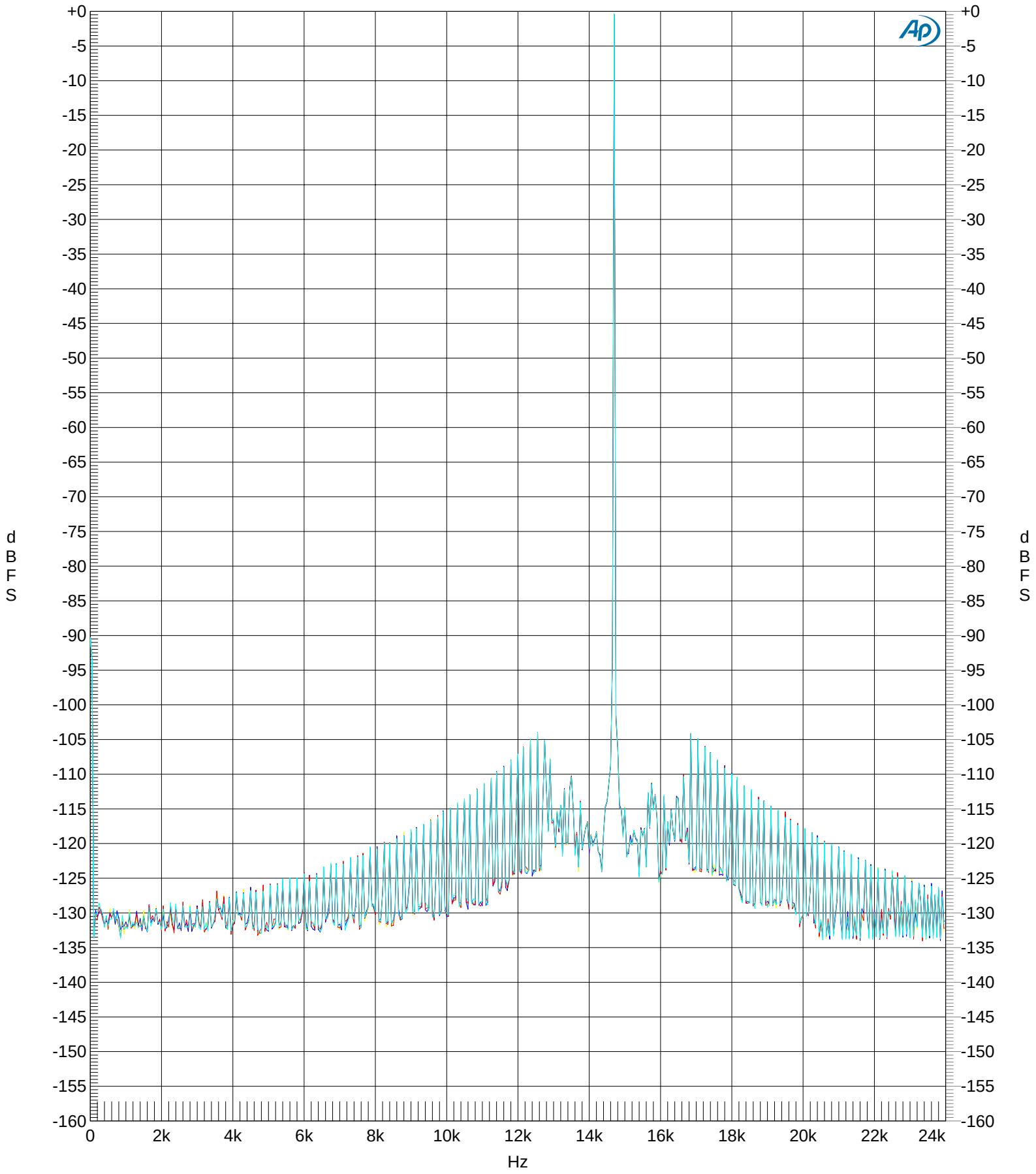
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	Fft.Ch.1 Ampl	Left	Left
1	2	Red	Dot	5	Fft.Ch.2 Ampl	Right	Right

Lt/Rt Downmix Test [4.6.1.2]



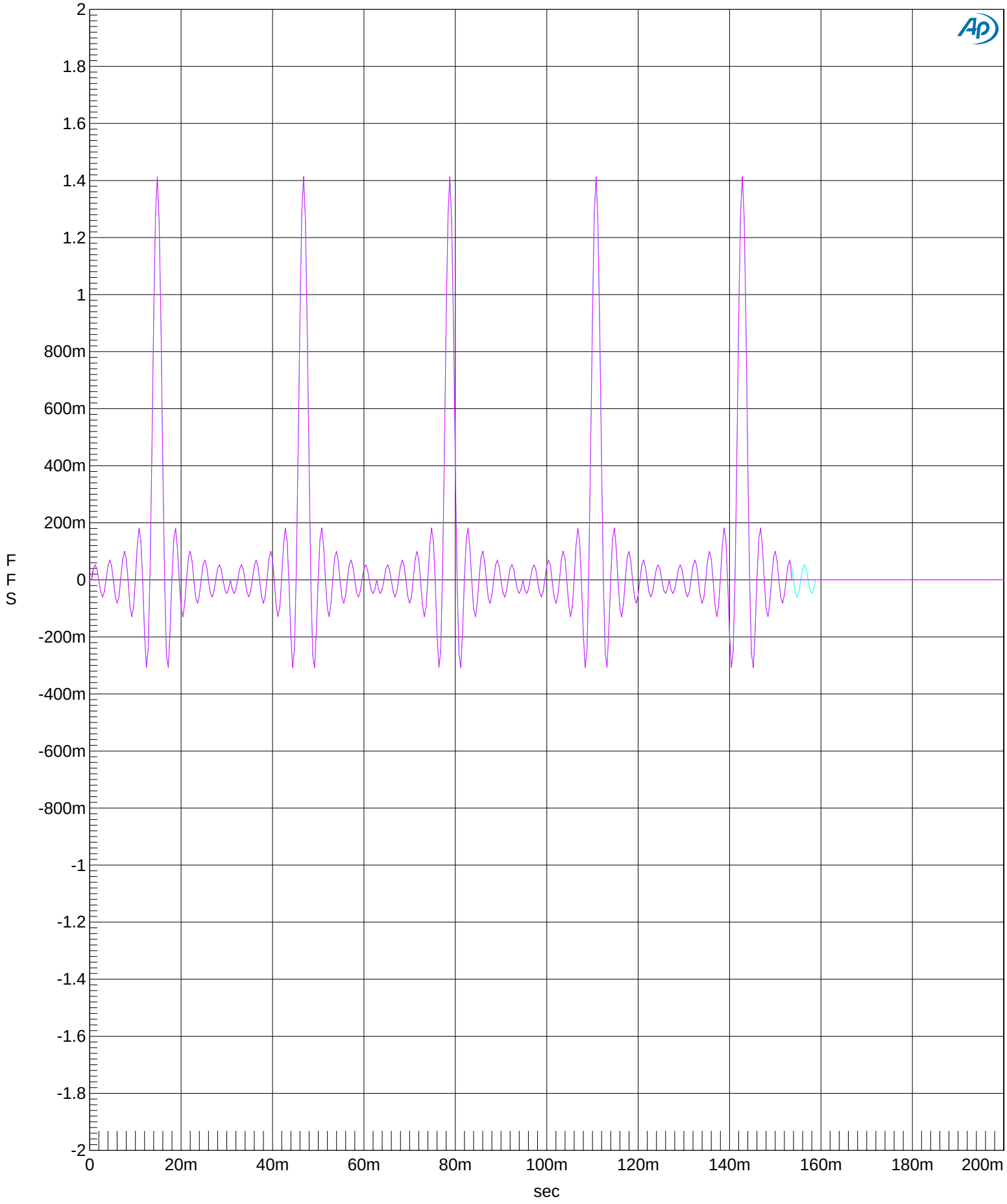
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Red	Dot	5	Fft.Ch.1 Ampl	Left	Left
1	2	Cyan	Dot	5	Fft.Ch.2 Ampl	Right	Right

Coupling Test [4.8]



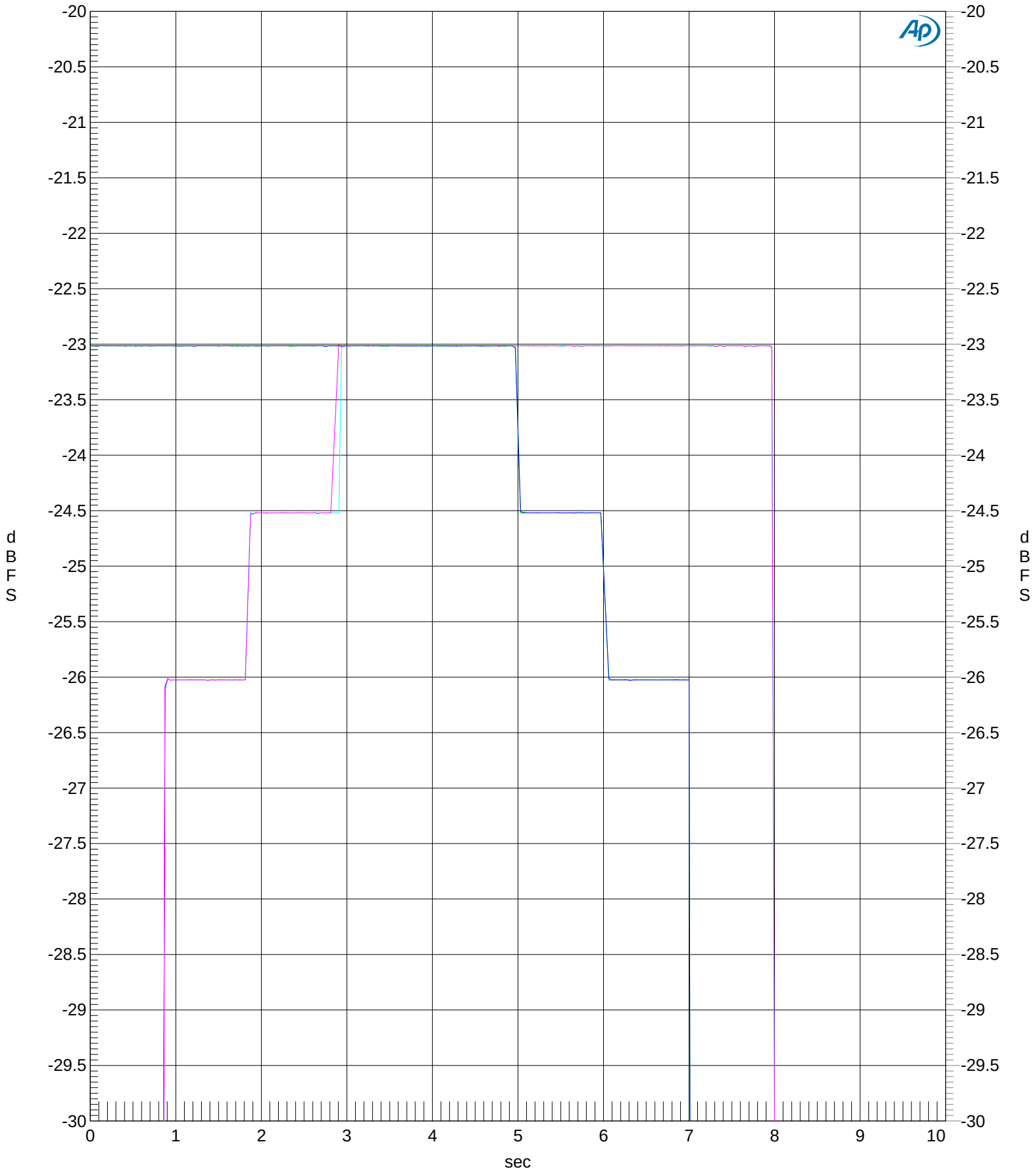
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Yellow	Dot	5	Fft.Ch.1 Ampl	Left	Left Cuplon On
1	2	Blue	Dot	5	Fft.Ch.2 Ampl	Right	Right
2	1	Red	Dot	5	Fft.Ch.1 Ampl	Left	Left Cuplon Off
2	2	Cyan	Dot	5	Fft.Ch.2 Ampl	Right	Right

Startstop Test [4.9]



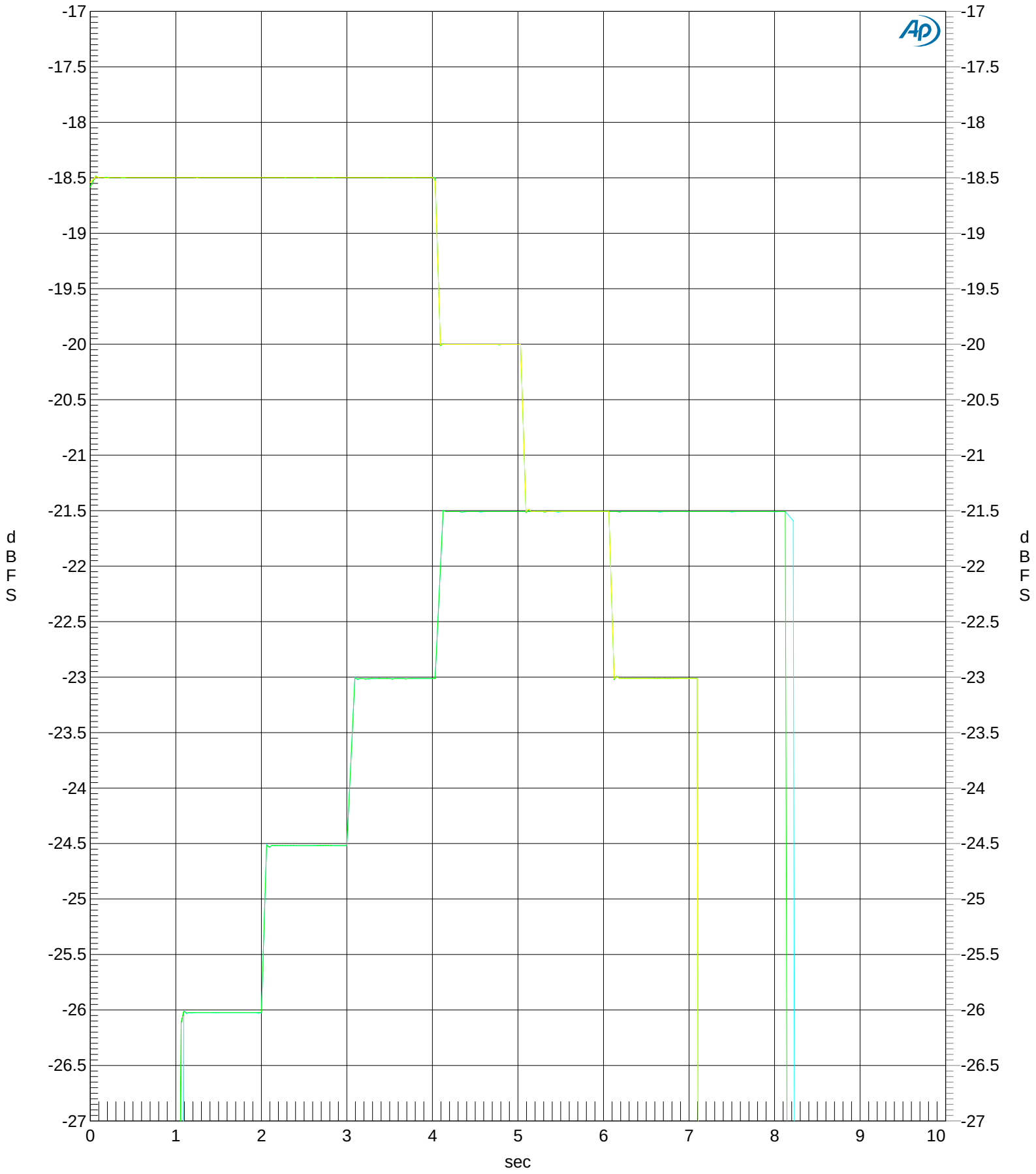
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	Fft.Ch.1 Ampl	Left	Left Start
2	1	Magenta	Dot	5	Fft.Ch.1 Ampl	Left	Right Stop

Center Channel Sweep Test [4.10.1.1]



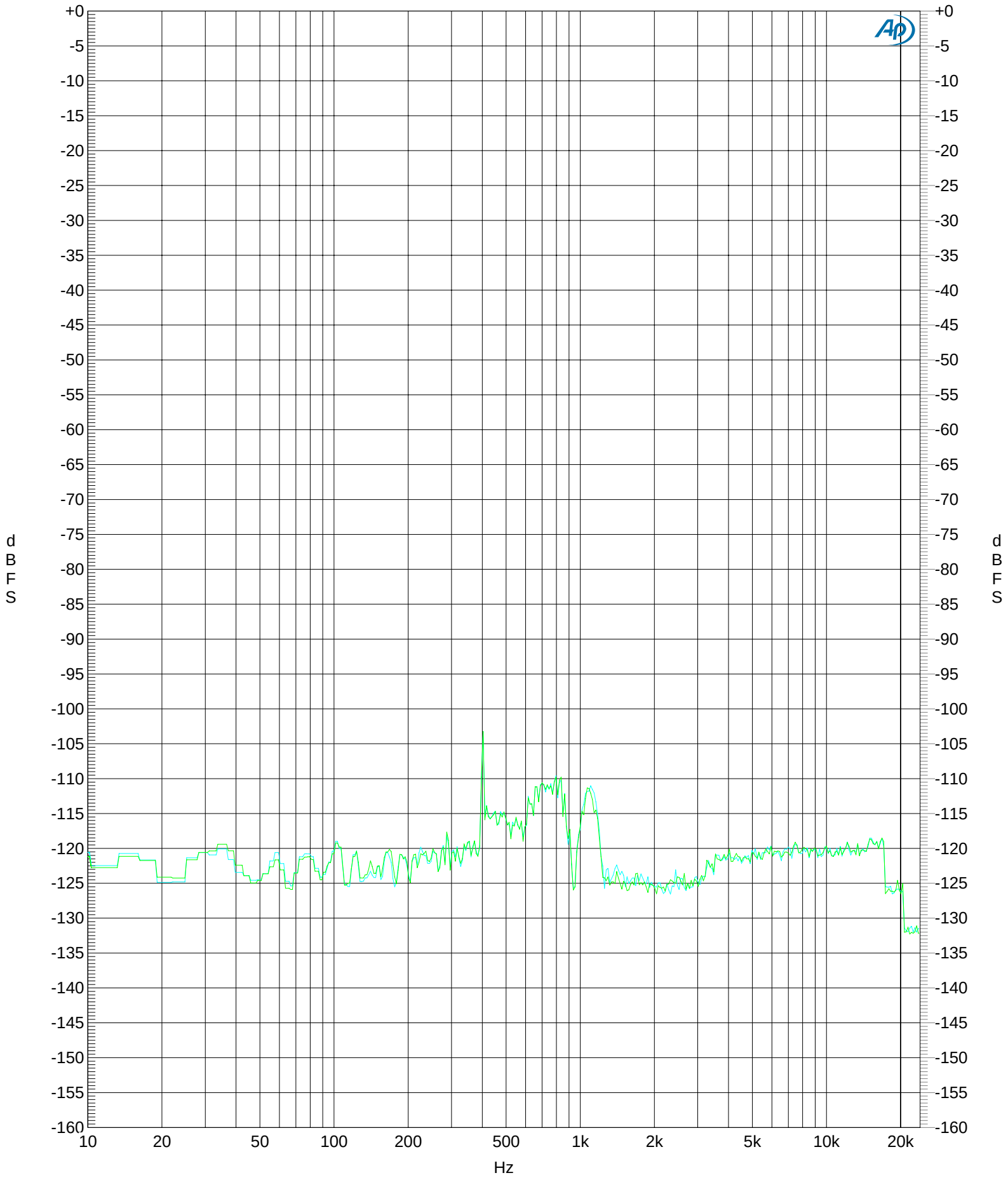
Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	DSP Anlr.Level A	Left	Left Lo/Ro
1	2	Magenta	Dot	5	DSP Anlr.Level B	Right	Right
2	1	Green	Dot	5	DSP Anlr.Level A	Left	Left Lt/Rt
2	2	Blue	Dot	5	DSP Anlr.Level B	Right	Right

Surround Channel Sweep Test [4.10.1.2]



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Dot	5	DSP Anlr.Level A	Left	Left Lo/Ro
1	2	Green	Dot	5	DSP Anlr.Level B	Right	Right
2	1	Green	Dot	5	DSP Anlr.Level A	Left	Left Lt/Rt
2	2	Yellow	Dot	5	DSP Anlr.Level B	Right	Right

Prefmix test [4.10.2]



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Cyan	Solid	5	Fft.Ch.1 Ampl	Left	Left
1	2	Green	Solid	5	Fft.Ch.2 Ampl	Right	Right

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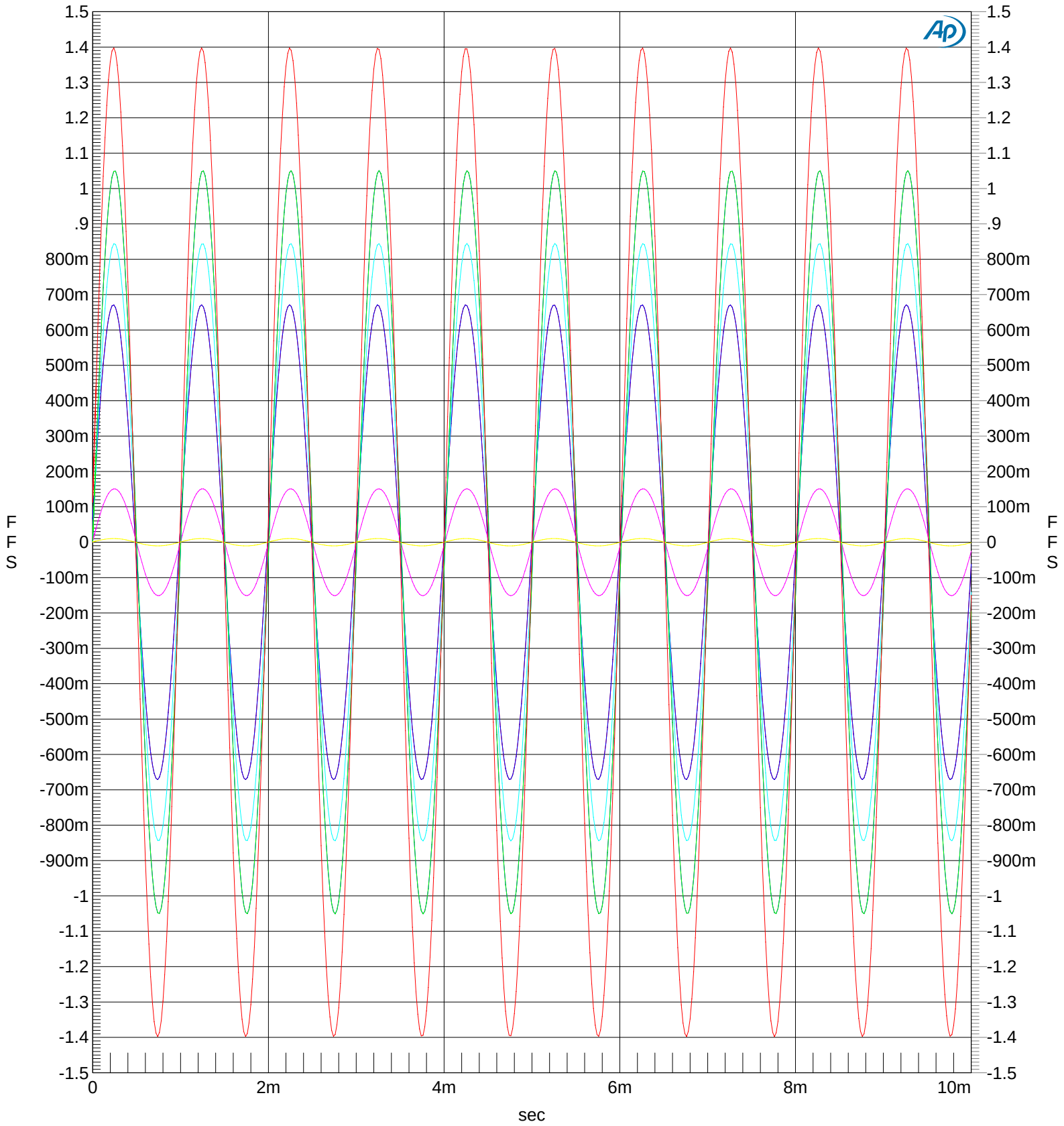
Overload Protection Test [4.10.3]



Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
5	1	Red	Dot	5	Fft.Ch.1 Ampl	Left	Left Lo/Ro Over1
5	2	Blue	Dot	5	Fft.Ch.2 Ampl	Right	Right
6	1	Magenta	Dot	5	Fft.Ch.1 Ampl	Left	Left Lt/Rt Over1
6	2	Cyan	Dot	5	Fft.Ch.2 Ampl	Right	Right
7	1	Blue	Dot	5	Fft.Ch.1 Ampl	Left	Left Lo/Ro Over2
7	2	Green	Dot	5	Fft.Ch.2 Ampl	Right	Right
8	1	Yellow	Dot	5	Fft.Ch.1 Ampl	Left	Left Lt/Rt Over2
8	2	Red	Dot	5	Fft.Ch.2 Ampl	Right	Right