



Sequence Report



Pre-Sequence Inputs:

ID: MassKobo 465

Summary

SIG 0 - Gain

Level and Gain  PASSED

SIG 1 - Bandwidth

200khz Bandwidth/Frequency Response  PASSED

SIG 2 - 4Vrms 20hz-20khz Tests

Level and Gain  PASSED

THD+N  PASSED

Frequency Response  PASSED

Signal to Noise Ratio  PASSED

SINAD  PASSED

IMD FFT  PASSED

IMD Level Sweep (SMPTE)  PASSED

1khz FFT  PASSED

50hz FFT  PASSED

DIM  PASSED

DIM Level Sweep  PASSED

Crosstalk Sweep, One Channel Undriven  PASSED

THD+N vs Frequency  PASSED

DC Level (Active)  PASSED

DC Level (Idle)  PASSED

32 Tone Test  PASSED

CMRR (100hz)  PASSED

CMRR (1khz)  PASSED

CMRR (10khz)  PASSED

SIG 3 - Square Wave

Square Wave  PASSED

SIG 4 - THD+N 90Khz

Stepped Frequency Sweep  PASSED

Idle Noise  PASSED

Noise (RMS)  PASSED

SIG 5 - 700mV Performance Tests (Headphone Level)

Level and Gain  PASSED

THD+N	✓ PASSED
Signal to Noise Ratio	✓ PASSED
SINAD	✓ PASSED
IMD FFT	✓ PASSED
1khz FFT	✓ PASSED
50hz FFT	✓ PASSED
DIM	✓ PASSED
Crosstalk Sweep, One Channel Undriven	✓ PASSED
THD+N vs Frequency	✓ PASSED
DC Level (Active)	✓ PASSED
DC Level (Idle)	✓ PASSED
32 Tone Test	✓ PASSED

SIG 6 - 50mV Performance Tests (IEM Level)

Level and Gain	✓ PASSED
THD+N	✓ PASSED
Signal to Noise Ratio	✓ PASSED
SINAD	✓ PASSED
IMD FFT	✓ PASSED
1khz FFT	✓ PASSED
50hz FFT	✓ PASSED
DIM	✓ PASSED
Crosstalk Sweep, One Channel Undriven	✓ PASSED
THD+N vs Frequency	✓ PASSED
DC Level (Active)	✓ PASSED
DC Level (Idle)	✓ PASSED
32 Tone Test	✓ PASSED

Sequence Result:

Sequence Result: ✓ PASSED



Sequence Report



SIG 0 - Gain : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - AES17 (20 kHz)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	500.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	351.6 mVrms
dBrB:	351.6 mVrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB



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dB SPL1:	351.6 mVrms
dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	22.500 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	32.00 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising

SIG 0 - Gain : Level and Gain

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.000 dBrG (@500.0 mVrms)
Frequency:	1.00000 kHz
Low-pass Filter:	Signal Path

Gain (25/05/2024 13:41:35.744)

Ch1	-3.059 dB
Ch2	-3.045 dB



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SIG 1 - Bandwidth : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 250k (624 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	500.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	351.6 mVrms
dBrB:	351.6 mVrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	351.6 mVrms



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dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	22.500 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	32.00 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising



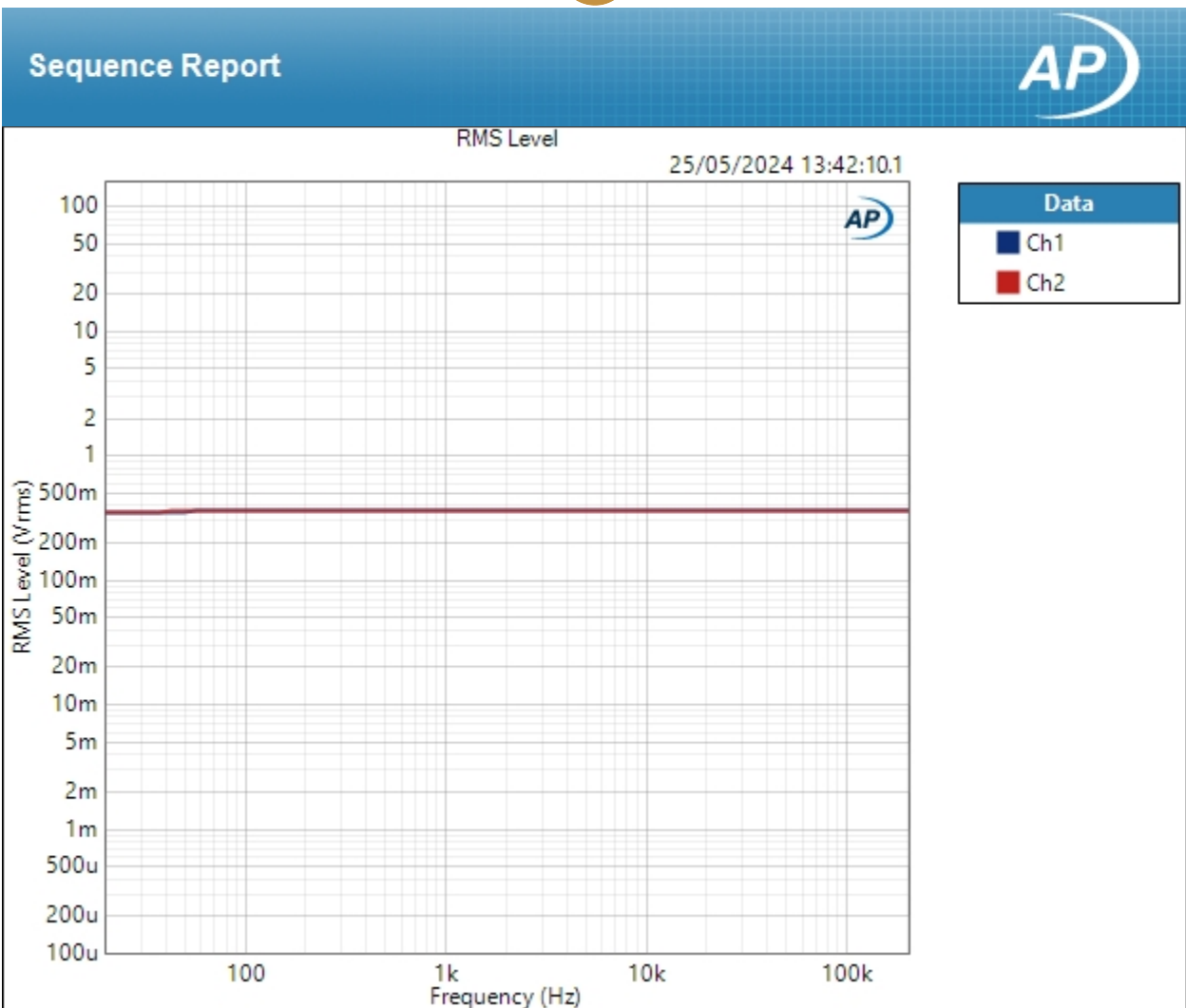
Sequence Report



SIG 1 - Bandwidth : 200khz Bandwidth/Frequency Response

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.000 dBrG (@500.0 mVrms)
EQ:	None
Start Frequency:	204.750 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	25/05/2024 13:42:10

RMS Level (25/05/2024 13:42:10.128)



Result: PASSED



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ALERT USER - Reduce Pot : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	500.0 mVrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	351.6 mVrms
dBrB:	351.6 mVrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	351.6 mVrms



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dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	22.500 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	32.00 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising



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SIG 2 - 4Vrms 20hz-20khz Tests : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - AES17 (20 kHz)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	4.000 Vrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	2.812 Vrms
dBrB:	2.812 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	2.812 Vrms



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dB SPL2: 10.00 mVrms
dB SPL1 Calibrator Level: 21.500 dB SPL
dB SPL2 Calibrator Level: 94.000 dB SPL
dBm (Input Power): 600.0 ohm
W(watts) (Input Power): 32.00 ohm
• DCX
DCX is not detected.
• Clocks
Output Rate: Track Output SR
Sync Out Level: 3.300 V
Sync Out Polarity: Normal
Timebase Reference: Internal
Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

SIG 2 - 4Vrms 20hz-20khz Tests : Level and Gain

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (25/05/2024 13:42:26.754)

Ch1 2.812 Vrms
Ch2 2.817 Vrms

Gain (25/05/2024 13:42:26.754)

Ch1 -3.060 dB
Ch2 -3.046 dB



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SIG 2 - 4Vrms 20hz-20khz Tests : THD+N

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

THD+N Ratio (25/05/2024 13:42:30.179)

Ch1 0.000528 %

Ch2 0.000559 %

THD+N Level (25/05/2024 13:42:30.179)

Ch1 14.84 uVrms

Ch2 15.74 uVrms

THD Ratio (25/05/2024 13:42:30.179)

Ch1 0.000089 %

Ch2 0.000096 %

THD Level (25/05/2024 13:42:30.179)

Ch1 2.504 uVrms

Ch2 2.702 uVrms

Noise Ratio (25/05/2024 13:42:30.179)

Ch1 0.000519 %

Ch2 0.000541 %

Noise Level (25/05/2024 13:42:30.179)

Ch1 14.59 uVrms

Ch2 15.24 uVrms

Distortion Product Ratio (25/05/2024 13:42:30.179)



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Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-130.65	-129.84	-132.60	-135.50	-136.11	-136.32	-135.03	-135.86	-140.61
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-126.71	-131.22	-135.06	-133.22	-135.80	-134.55	-136.71	-129.55	-134.96

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

Distortion Product Level (25/05/2024 13:42:30.179)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	2.814	825.4 n	0.906 u	659.9 n	472.6 n	440.3 n	430.1 n	498.8 n	453.3 n	262.4 n
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	2.819	1.302 u	774.3 n	497.9 n	615.5 n	457.1 n	527.6 n	411.5 n	0.939 u	503.5 n

Distortion Product Level Parameters

Frequency Unit: Hz

Level Unit: Vrms

Channel: Ch1



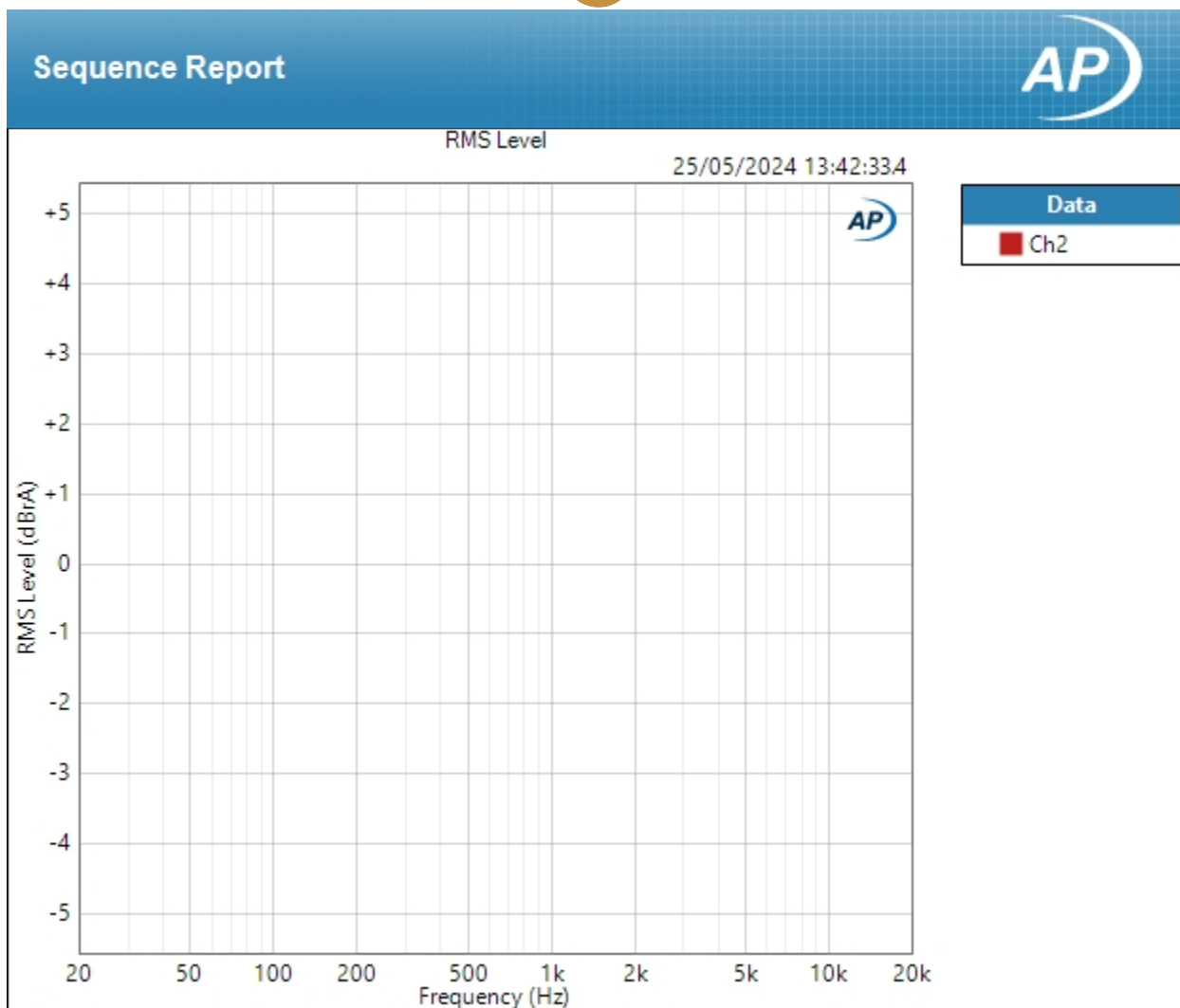
Sequence Report



SIG 2 - 4Vrms 20hz-20khz Tests : Frequency Response

Start Frequency:	20.0000 Hz
Stop Frequency:	20.0000 kHz
Generator Level:	0.000 dBrG (@4.000 Vrms)
DC Offset:	0.000 V
EQ:	None
Pre-Sweep:	0.000 s
Sweep:	350.0 ms
Extend Acquisition By:	50.00 ms
Secondary Source:	None
Measured 1	25/05/2024 13:42:33

RMS Level (25/05/2024 13:42:33.427)



Result:  PASSED

Deviation (20.0000 Hz - 20.0000 kHz) (25/05/2024 13:42:33.427)

Ch1 ± 0.037 dB

Ch2 ± 29.731 dB

Deviation (20.0000 Hz - 20.0000 kHz) Parameters

Min: 20.0000 Hz

Max: 20.0000 kHz



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SIG 2 - 4Vrms 20hz-20khz Tests : Signal to Noise Ratio

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path

Signal to Noise Ratio (25/05/2024 13:42:37.020)

Ch1 105.346 dB

Ch2 105.029 dB

SIG 2 - 4Vrms 20hz-20khz Tests : SINAD

Waveform: Sine (1 kHz)
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

SINAD (25/05/2024 13:42:40.036)

Ch1 105.300 dB

Ch2 104.996 dB



Sequence Report



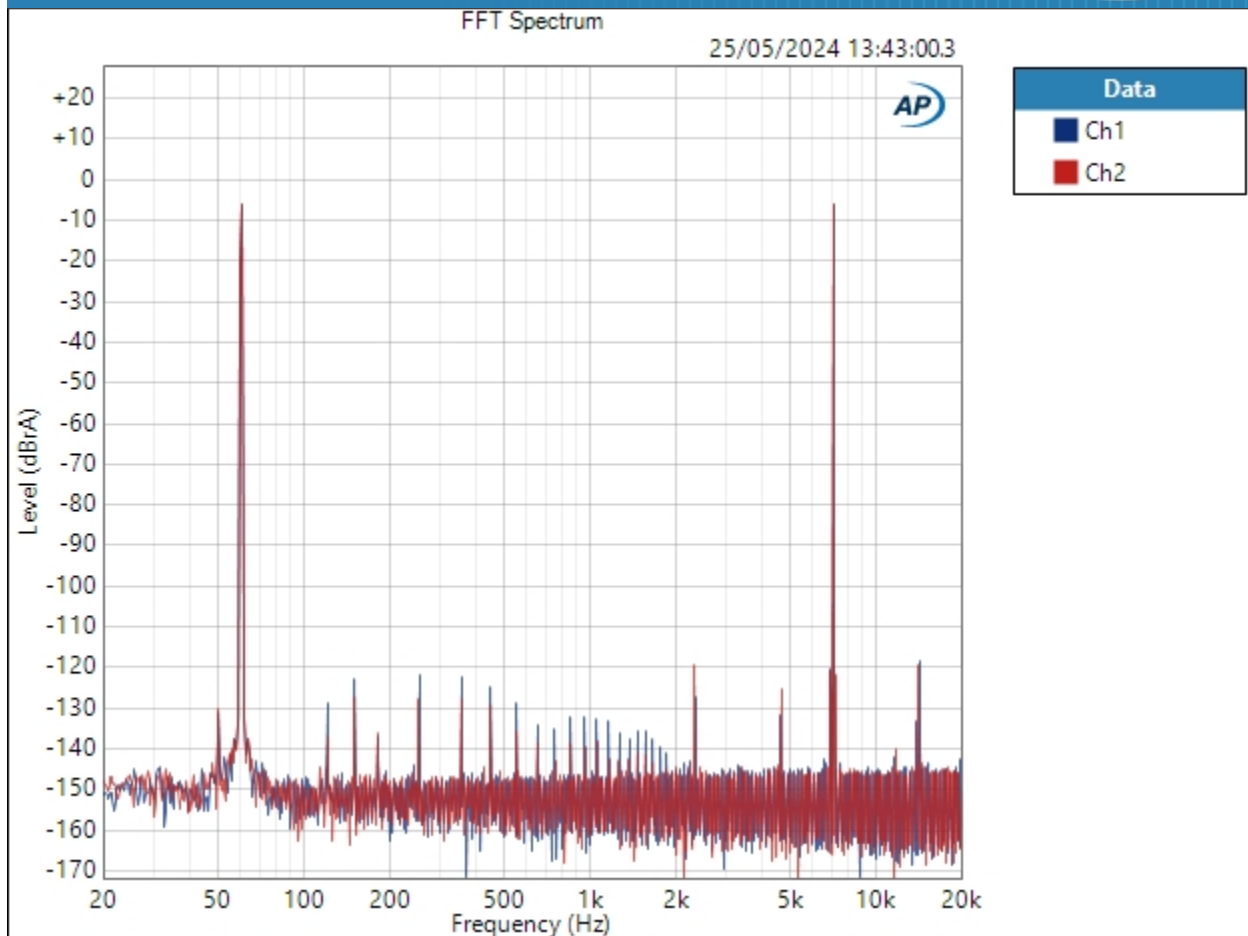
SIG 2 - 4Vrms 20hz-20khz Tests : IMD FFT

Waveform: Sine, Dual
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Frequency: 60.0000 Hz
Frequency B: 7.00000 kHz
IMD Split: No
FB:FA Ratio: 1.000 x/y
Secondary Source: None
Measured 1 25/05/2024 13:43:00
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:43:00.342)



Sequence Report



Result:  PASSED



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SIG 2 - 4Vrms 20hz-20khz Tests : IMD Level Sweep (SMPTE)

IMD Type: SMPTE
Frequency 1: 60.0000 Hz
Frequency 2: 7.00000 kHz
Frequency Ratio: 4:1
IMD Split: False
Start Level: -60.000 dBrG
Stop Level: 0.000 dBrG
Step Type: Linear
Number of Points: 64
Step Size: +0.952 dBrG
Measured 1 25/05/2024 13:44:12

SMPTE Ratio vs Measured Level (25/05/2024 13:44:12.002)

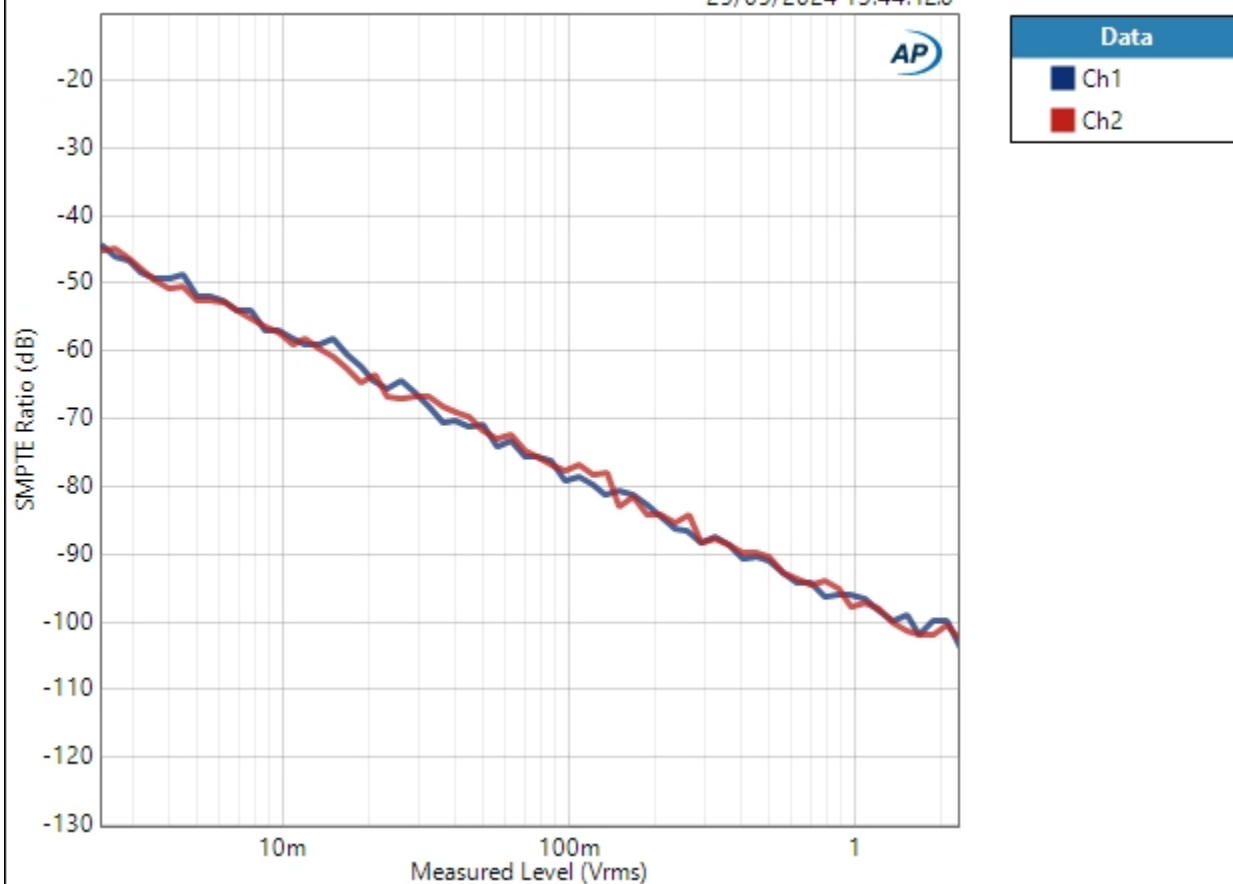


Sequence Report



SMPTE Ratio vs Measured Level

25/05/2024 13:44:12.0



Result: PASSED



Sequence Report



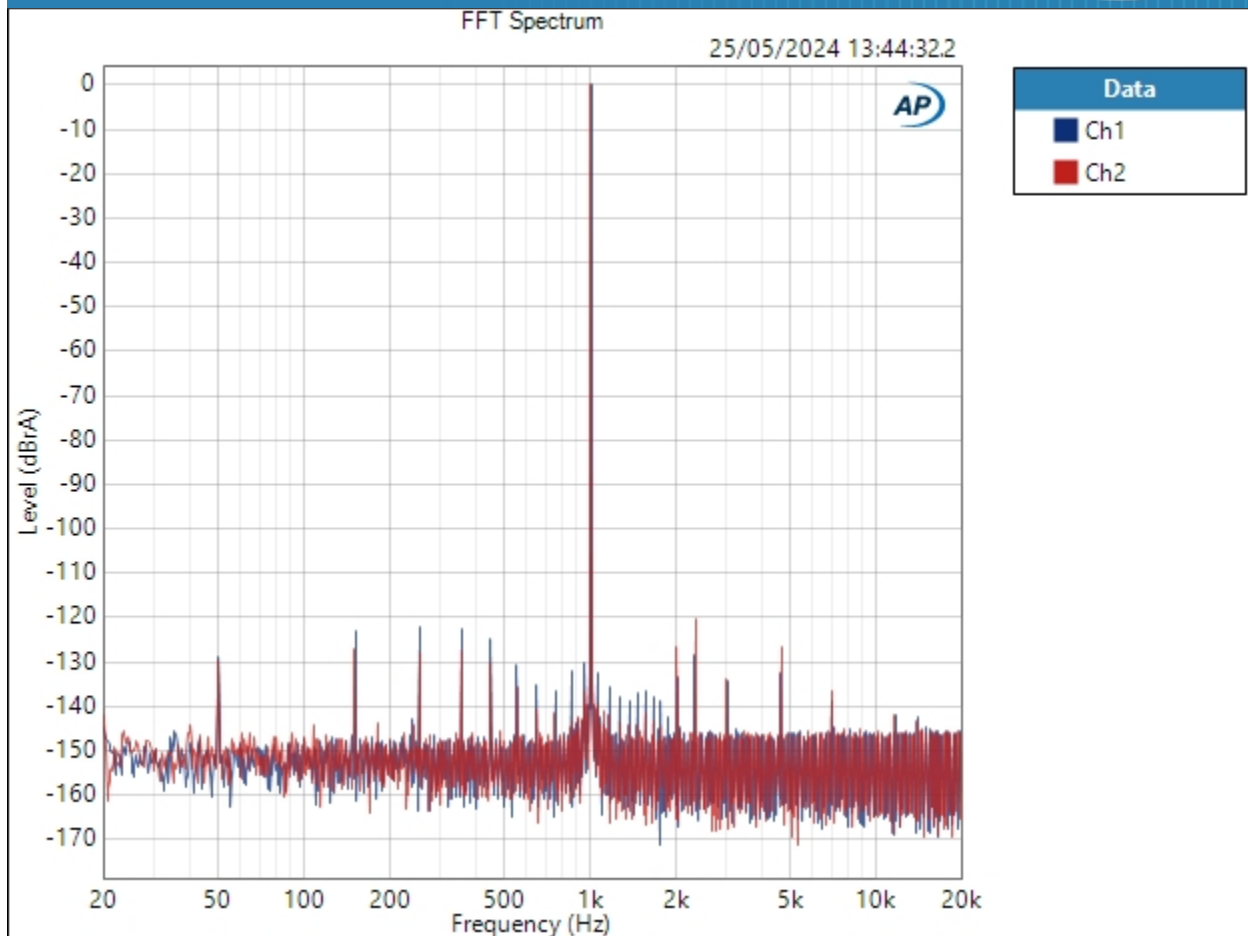
SIG 2 - 4Vrms 20hz-20khz Tests : 1khz FFT

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 25/05/2024 13:44:32
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:44:32.280)



Sequence Report



Result: PASSED



Sequence Report



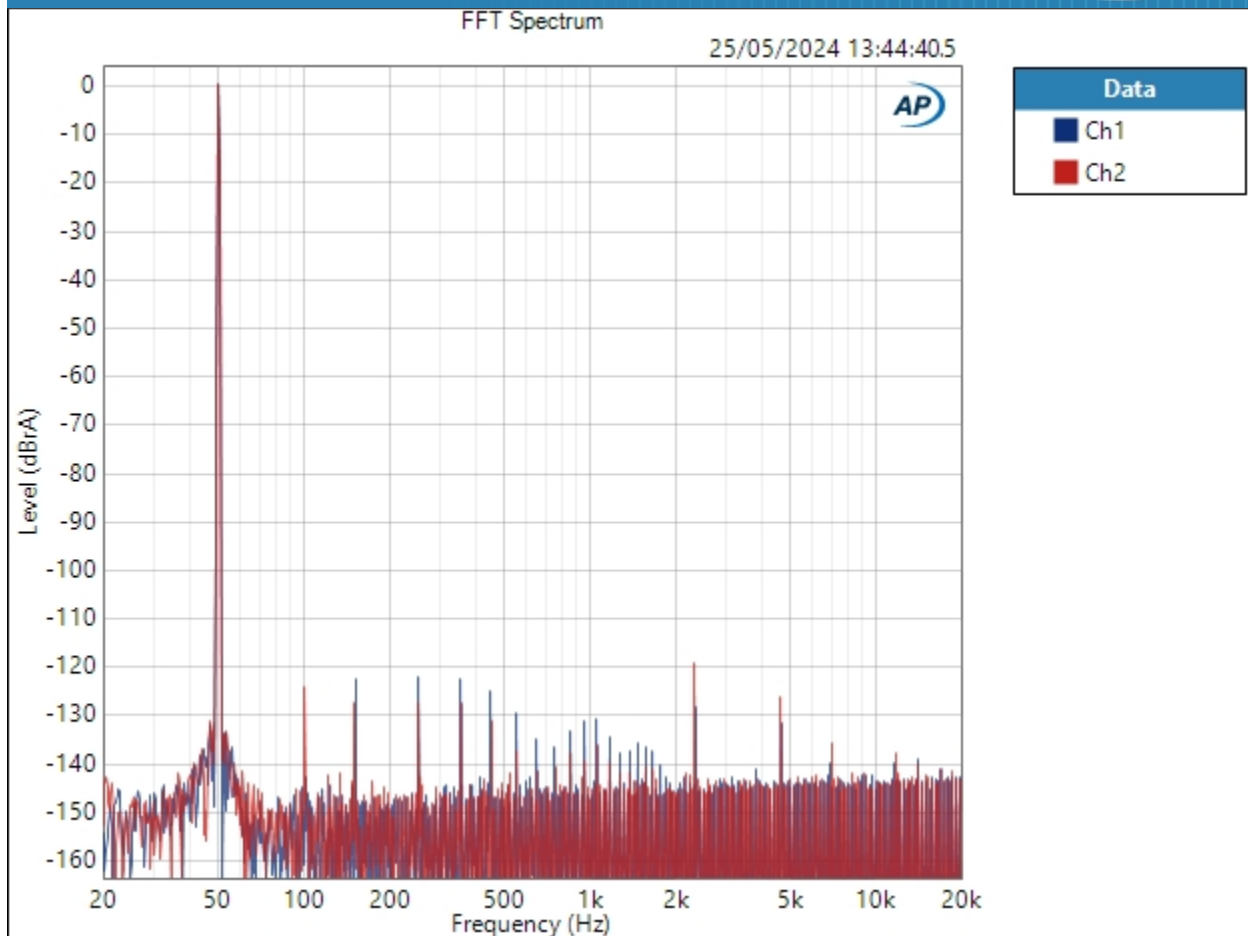
SIG 2 - 4Vrms 20hz-20khz Tests : 50hz FFT

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 50.0000 Hz
Secondary Source: None
Measured 1 25/05/2024 13:44:40
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:44:40.565)



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Result: PASSED



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SIG 2 - 4Vrms 20hz-20khz Tests : DIM

Generator Level: 0.000 dBrG (@4.000 Vrms)

Waveform: DIM 30

Square Freq: 3.15000 kHz

Sine Freq: 15.0000 kHz

Mode: U1...U9

Low-pass Filter: 30 kHz

DIM Ratio (25/05/2024 13:44:42.820)

Ch1 -99.399 dB

Ch2 -100.483 dB

Distortion Product Ratio (25/05/2024 13:44:42.820)

Channel	U5	U4	fq	U6	U3	U7	U2	U8	U1	U9	
Ch1	750.0	2.400k	3.150k	3.900k	5.550k	7.050k	8.700k	10.20k	11.85k	13.35k	15.00k
	-105.99	-114.65	14.10	-111.24	-106.66	-107.40	-115.00	-116.77	-107.62	-107.86	0.00
Ch2	750.0	2.400k	3.150k	3.900k	5.550k	7.050k	8.700k	10.20k	11.85k	13.35k	15.00k
	-106.17	-112.51	14.10	-117.15	-108.37	-107.90	-112.44	-115.84	-110.44	-110.14	0.00

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1



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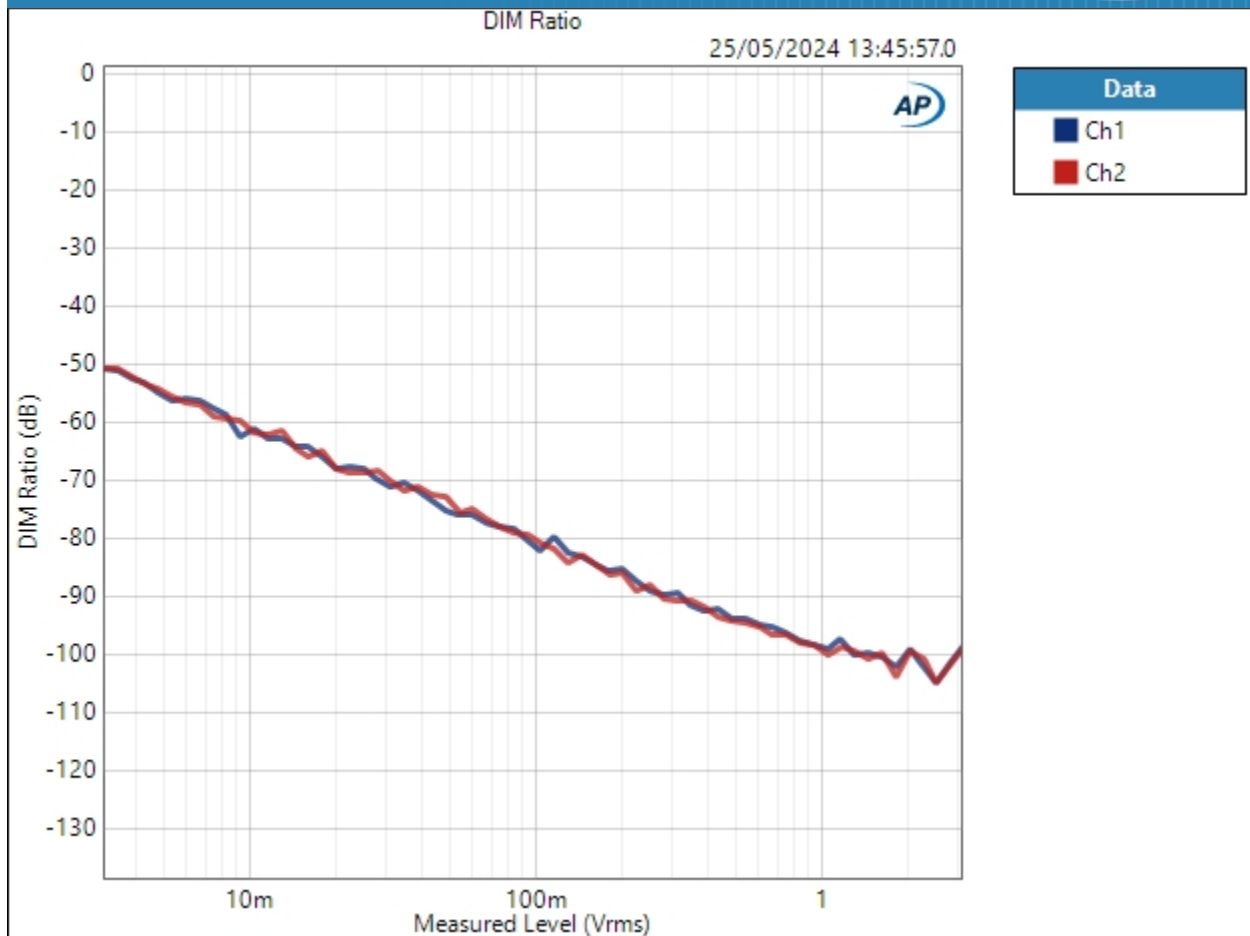
SIG 2 - 4Vrms 20hz-20khz Tests : DIM Level Sweep

Waveform: DIM 30
Square Freq: 3.15000 kHz
Sine Freq: 15.0000 kHz
Start Level: -60.000 dBrG
Stop Level: 0.000 dBrG
Step Type: Linear
Number of Points: 64
Step Size: +0.952 dBrG
Mode: U1...U9
Measured 1 25/05/2024 13:45:57
Low-pass Filter: 30 kHz

DIM Ratio (25/05/2024 13:45:57.097)



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Result:  PASSED



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SIG 2 - 4Vrms 20hz-20khz Tests : Crosstalk Sweep, One Channel Undriven

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.000 dBrG (@4.000 Vrms)

Start Frequency: 20.0000 kHz

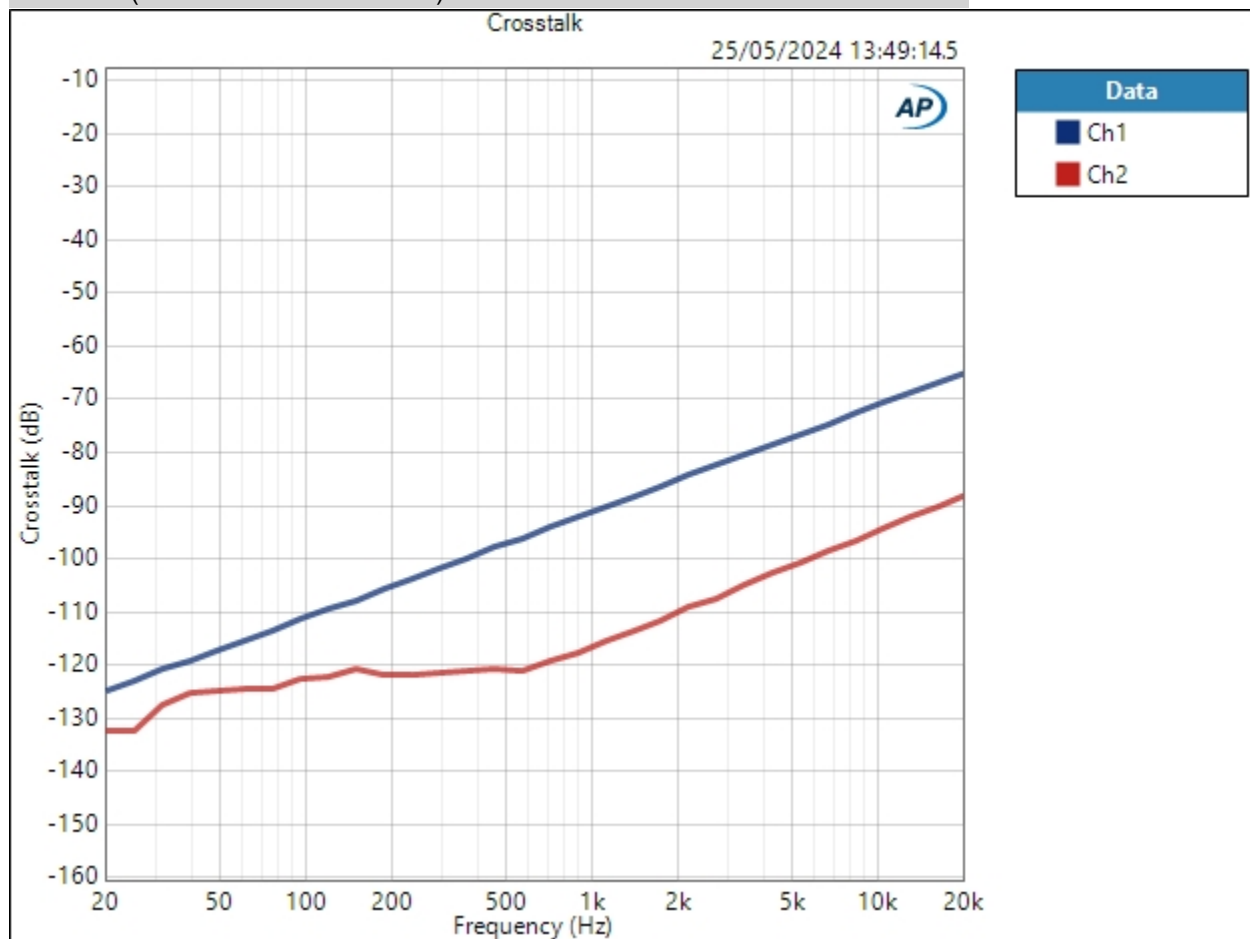
Stop Frequency: 20.0000 Hz

Step Type: Logarithmic

Number of Points: 32

Measured 1 25/05/2024 13:49:14

Crosstalk (25/05/2024 13:49:14.573)





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Result:  PASSED



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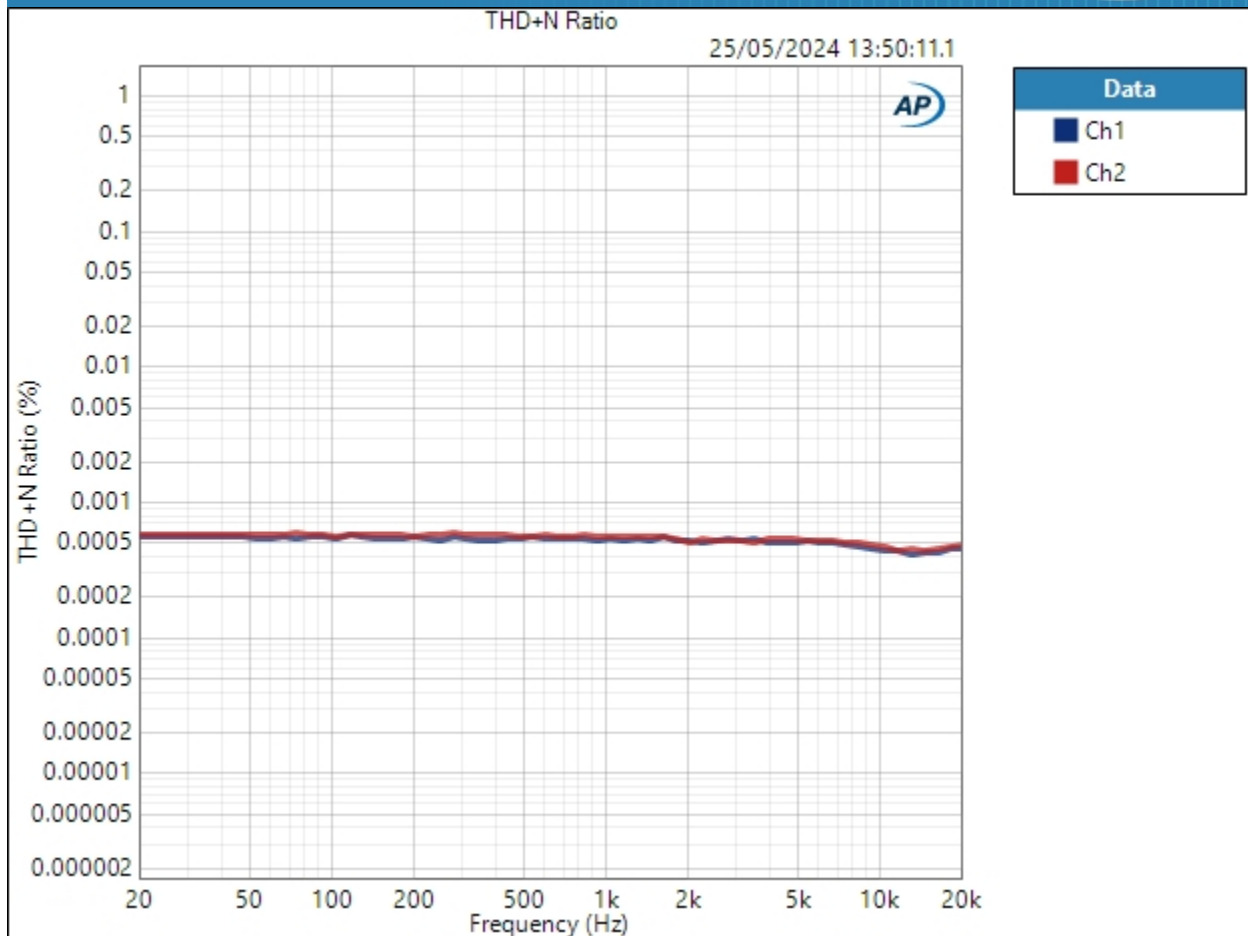
SIG 2 - 4Vrms 20hz-20khz Tests : THD+N vs Frequency

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.000 dBrG (@4.000 Vrms)
EQ:	None
Start Frequency:	20.0000 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	25/05/2024 13:50:11

THD+N Ratio (25/05/2024 13:50:11.160)



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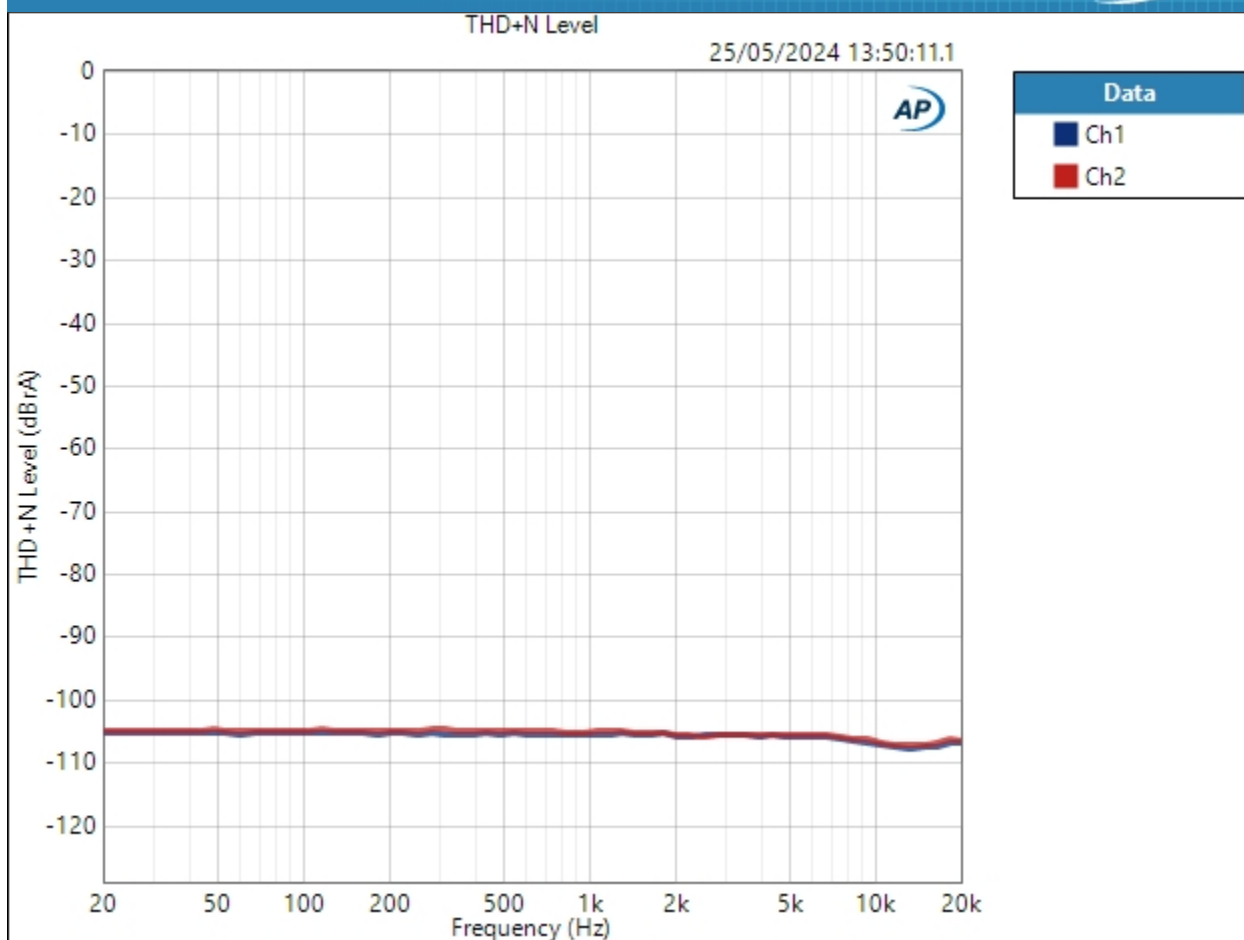


Result: PASSED

THD+N Level (25/05/2024 13:50:11.160)



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Result: PASSED



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SIG 2 - 4Vrms 20hz-20khz Tests : DC Level (Active)

Waveform: Sine
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (25/05/2024 13:50:18.098)

Ch1 -543.3 uV
Ch2 -134.2 uV

SIG 2 - 4Vrms 20hz-20khz Tests : DC Level (Idle)

Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (25/05/2024 13:50:24.420)

Ch1 -610.0 uV
Ch2 -93.03 uV



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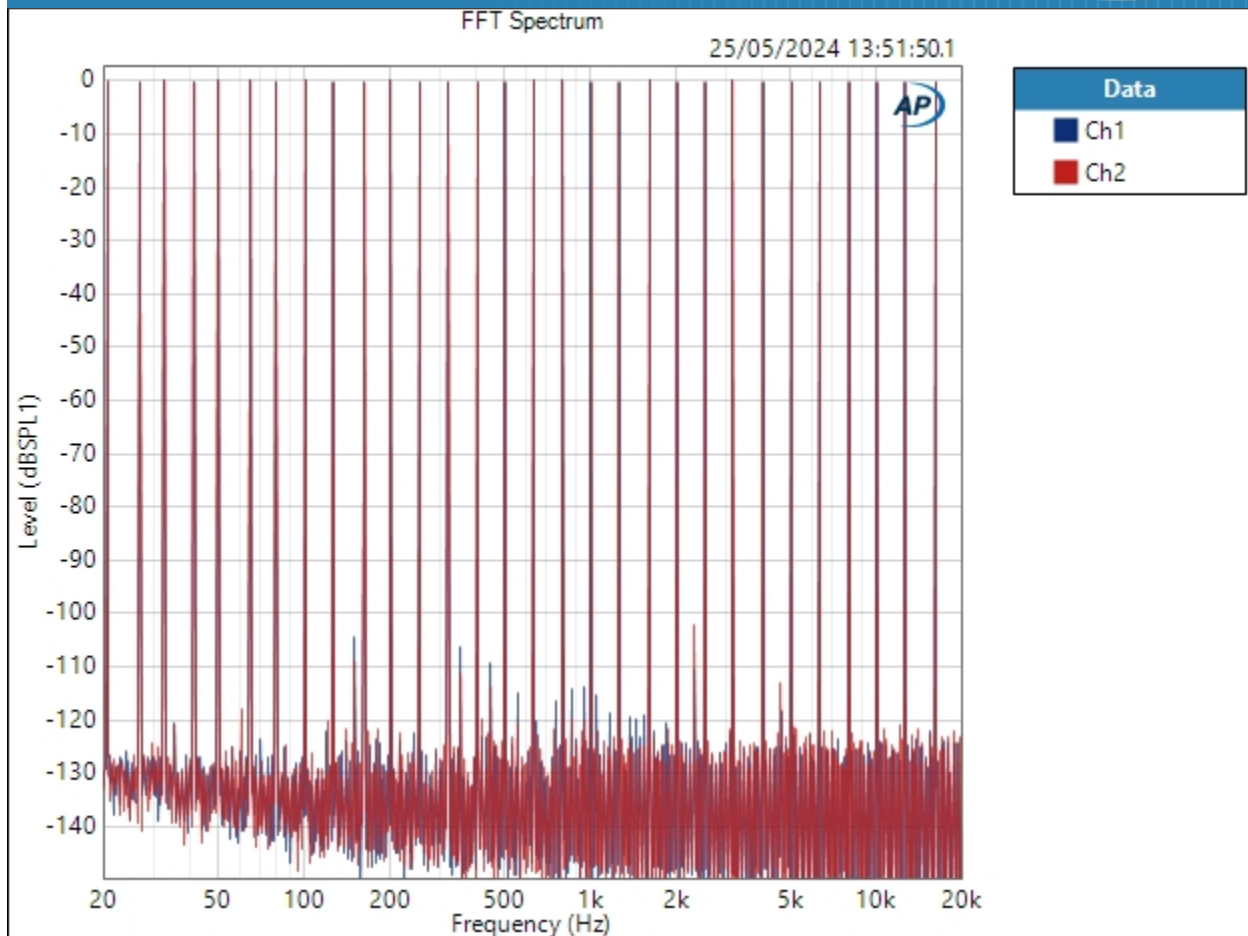
SIG 2 - 4Vrms 20hz-20khz Tests : 32 Tone Test

Waveform: 32 Tone Test.wav
Start Offset (sec): 0.000 s
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Secondary Source: None
Measured 1 25/05/2024 13:51:50
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 1248000
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:51:50.137)



Sequence Report



Result: PASSED



Sequence Report



SIG 2 - 4Vrms 20hz-20khz Tests : CMRR (100hz)

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 4.000 Vrms
Frequency: 100.000 Hz

CMRR (25/05/2024 13:51:54.602)

Ch1 72.402 dB

Ch2 47.067 dB

SIG 2 - 4Vrms 20hz-20khz Tests : CMRR (1khz)

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 4.000 Vrms
Frequency: 1.00000 kHz

CMRR (25/05/2024 13:51:57.768)

Ch1 70.745 dB

Ch2 47.075 dB

SIG 2 - 4Vrms 20hz-20khz Tests : CMRR (10khz)

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 4.000 Vrms
Frequency: 10.0000 kHz

CMRR (25/05/2024 13:52:01.264)

Ch1 55.187 dB

Ch2 46.864 dB



Sequence Report



SIG 3 - Square Wave : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	DC - 1M (2.496 MHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Disabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	4.000 Vrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	2.814 Vrms
dBrB:	2.814 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	2.814 Vrms



Sequence Report



dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	21.500 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	32.00 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising



Sequence Report



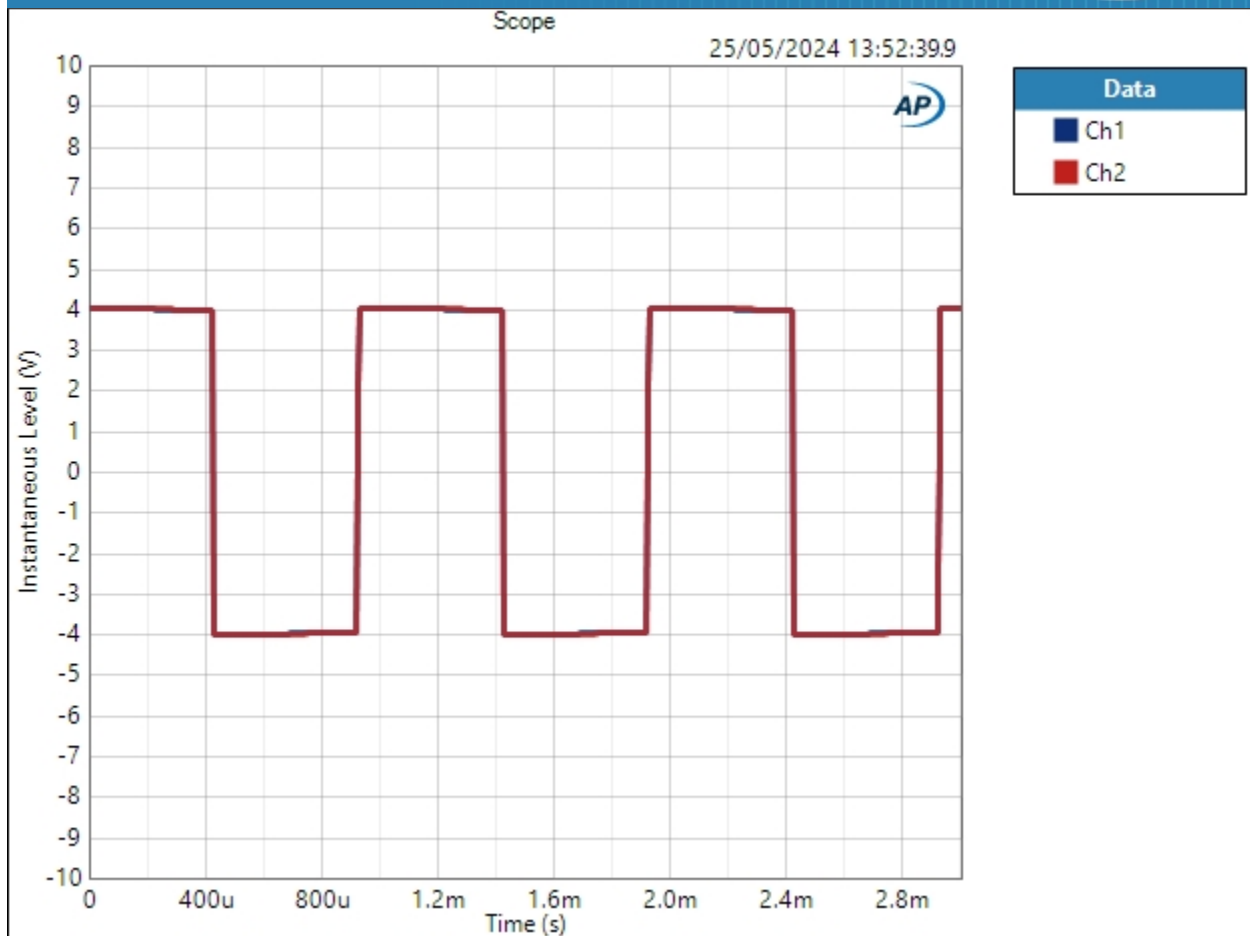
SIG 3 - Square Wave : Square Wave

Waveform: Square
Generator Level: 4.000 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 25/05/2024 13:52:39
Acquisition Type: Auto
Trigger: Generator
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 1248000
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

Scope (25/05/2024 13:52:39.978)



Sequence Report



Scope Parameters

Interpolated: On

Result:  PASSED



Sequence Report



SIG 4 - THD+N 90Khz : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - 90k (192 kHz SR)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	4.000 Vrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	2.814 Vrms
dBrB:	2.814 Vrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	2.814 Vrms



Sequence Report



dB SPL2:	10.00 mVrms
dB SPL1 Calibrator Level:	21.500 dB SPL
dB SPL2 Calibrator Level:	94.000 dB SPL
dBm (Input Power):	600.0 ohm
W(watts) (Input Power):	32.00 ohm
• DCX	
DCX is not detected.	
• Clocks	
Output Rate:	Track Output SR
Sync Out Level:	3.300 V
Sync Out Polarity:	Normal
Timebase Reference:	Internal
Jitter:	Disabled
• Triggers	
Source:	Off
Input Logic Level:	3.300 V
Edge:	Rising



Sequence Report



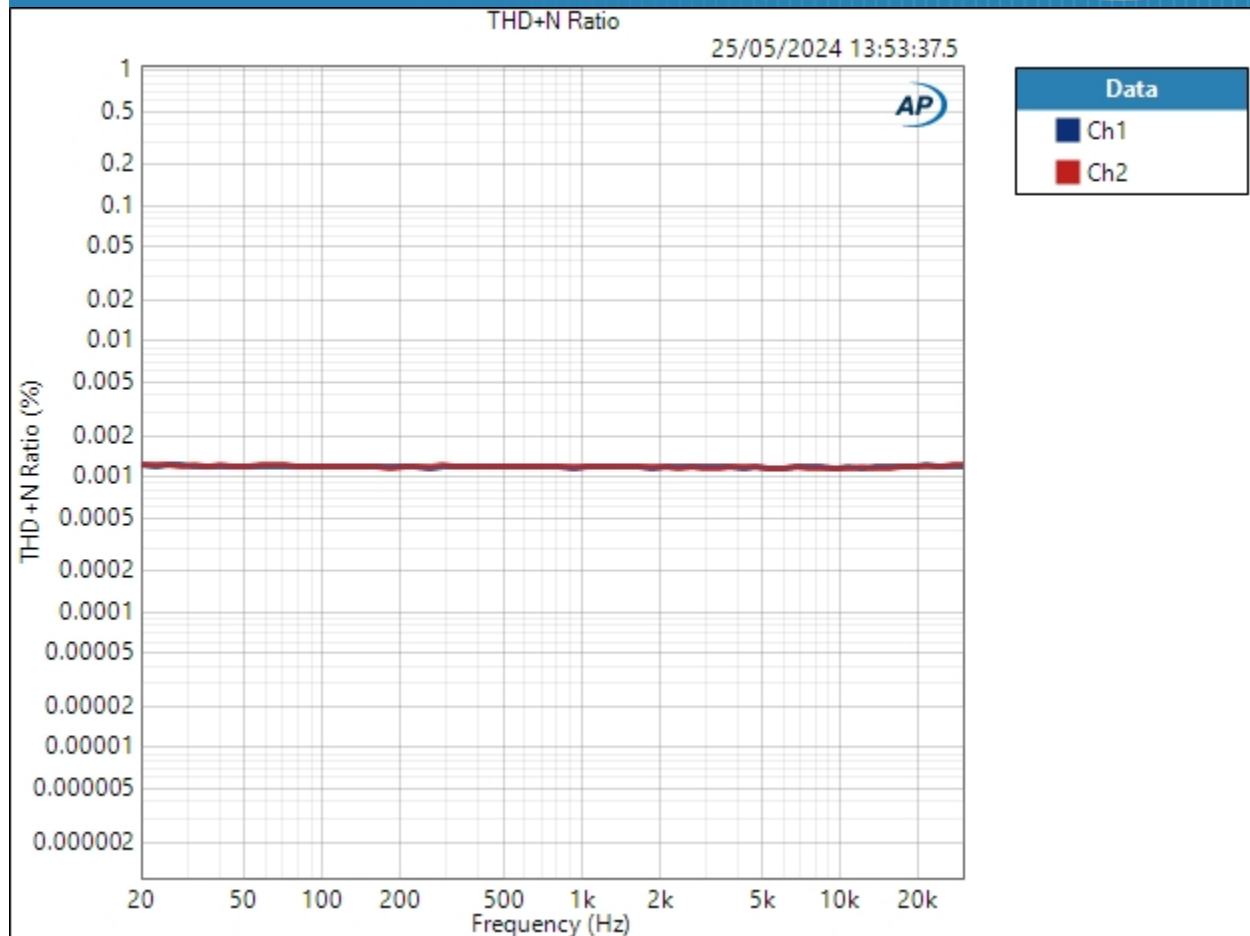
SIG 4 - THD+N 90Khz : Stepped Frequency Sweep

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.000 dBrG (@4.000 Vrms)
EQ:	None
Start Frequency:	30.0000 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	25/05/2024 13:53:37

THD+N Ratio (25/05/2024 13:53:37.569)



Sequence Report



Result: PASSED

THD+N Level (25/05/2024 13:53:37.569)



Sequence Report



Result: PASSED



Sequence Report



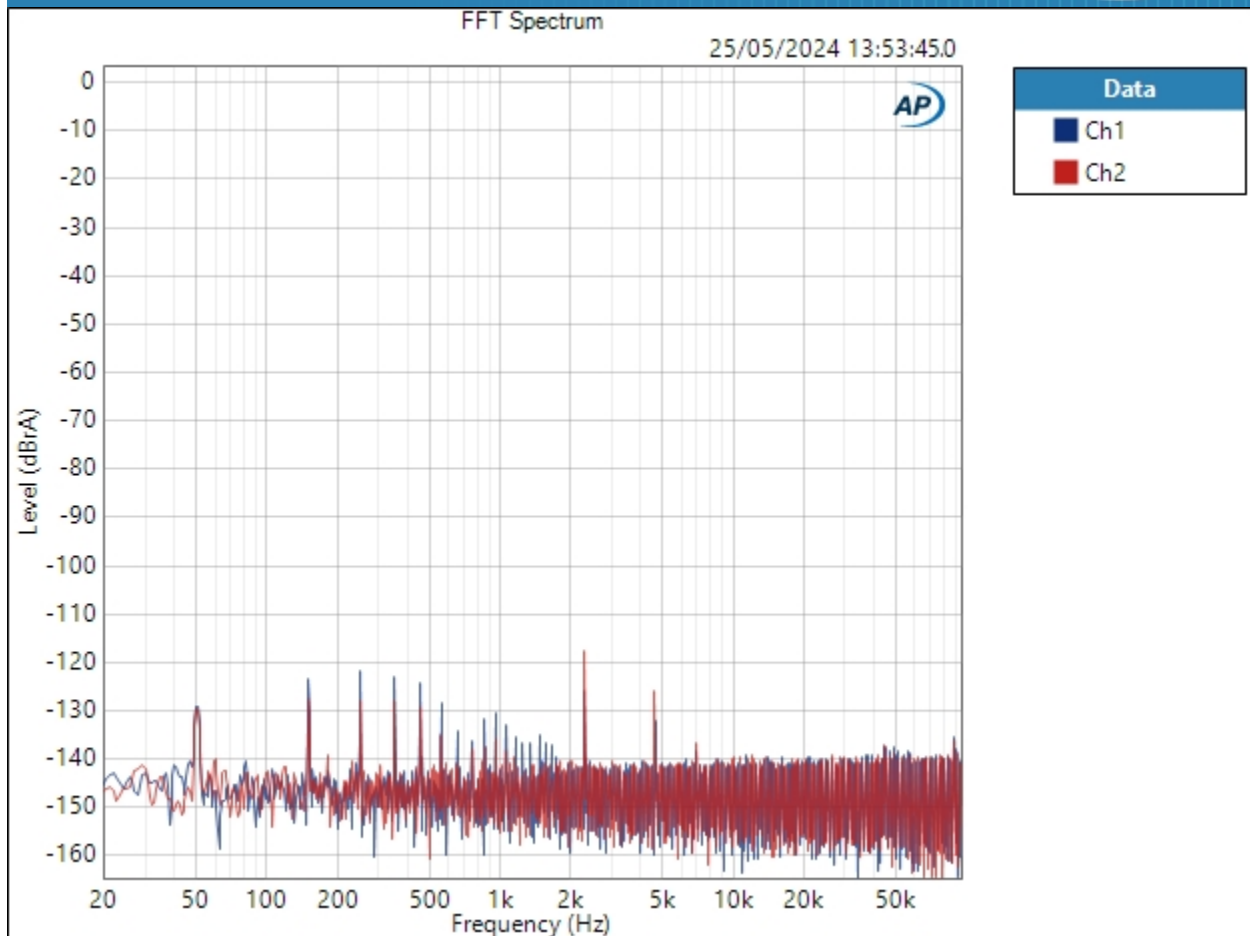
SIG 4 - THD+N 90KHz : Idle Noise

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 Vrms
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 25/05/2024 13:53:45
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:53:45.028)

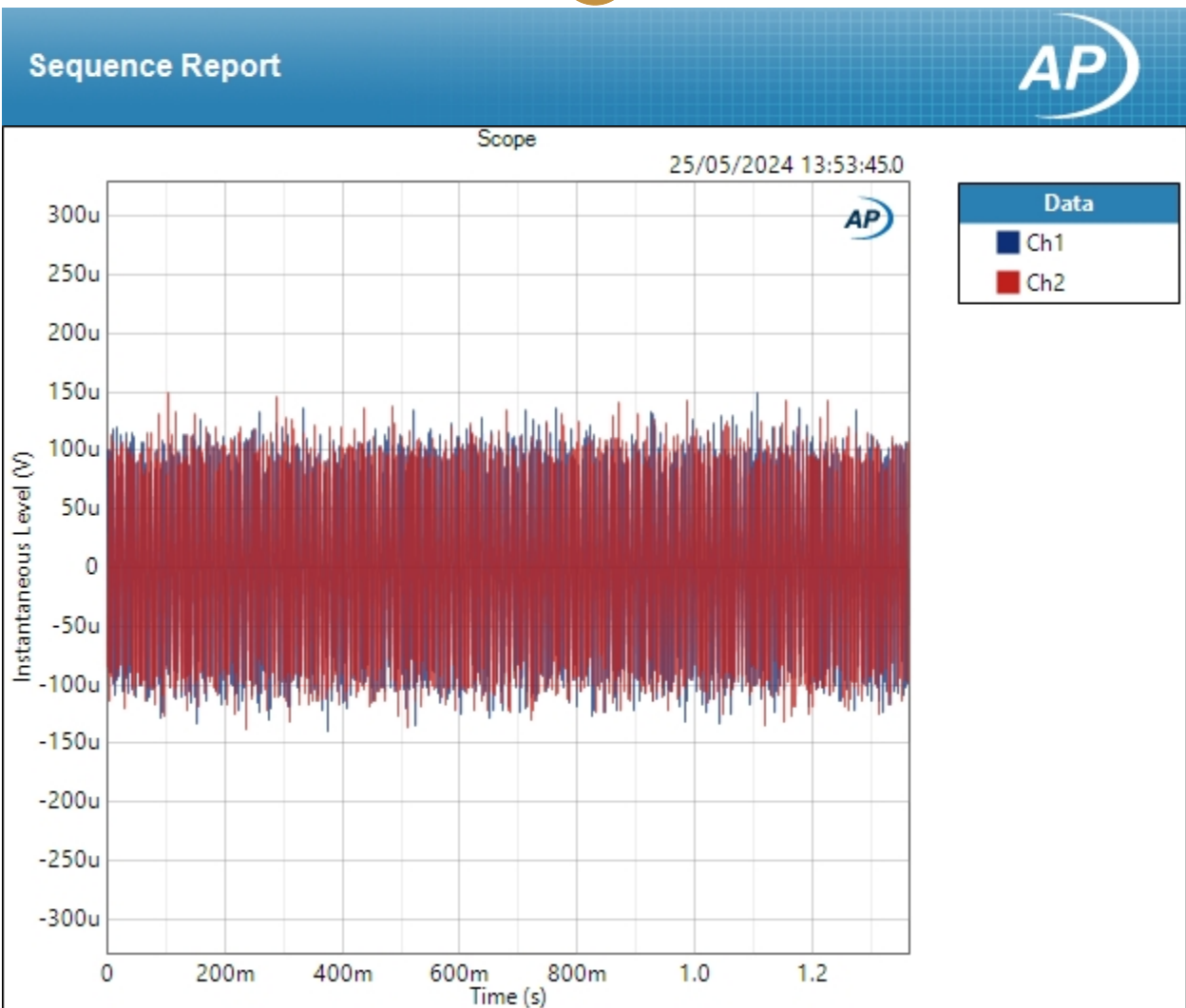


Sequence Report



Result: PASSED

Scope (25/05/2024 13:53:45.028)



Scope Parameters

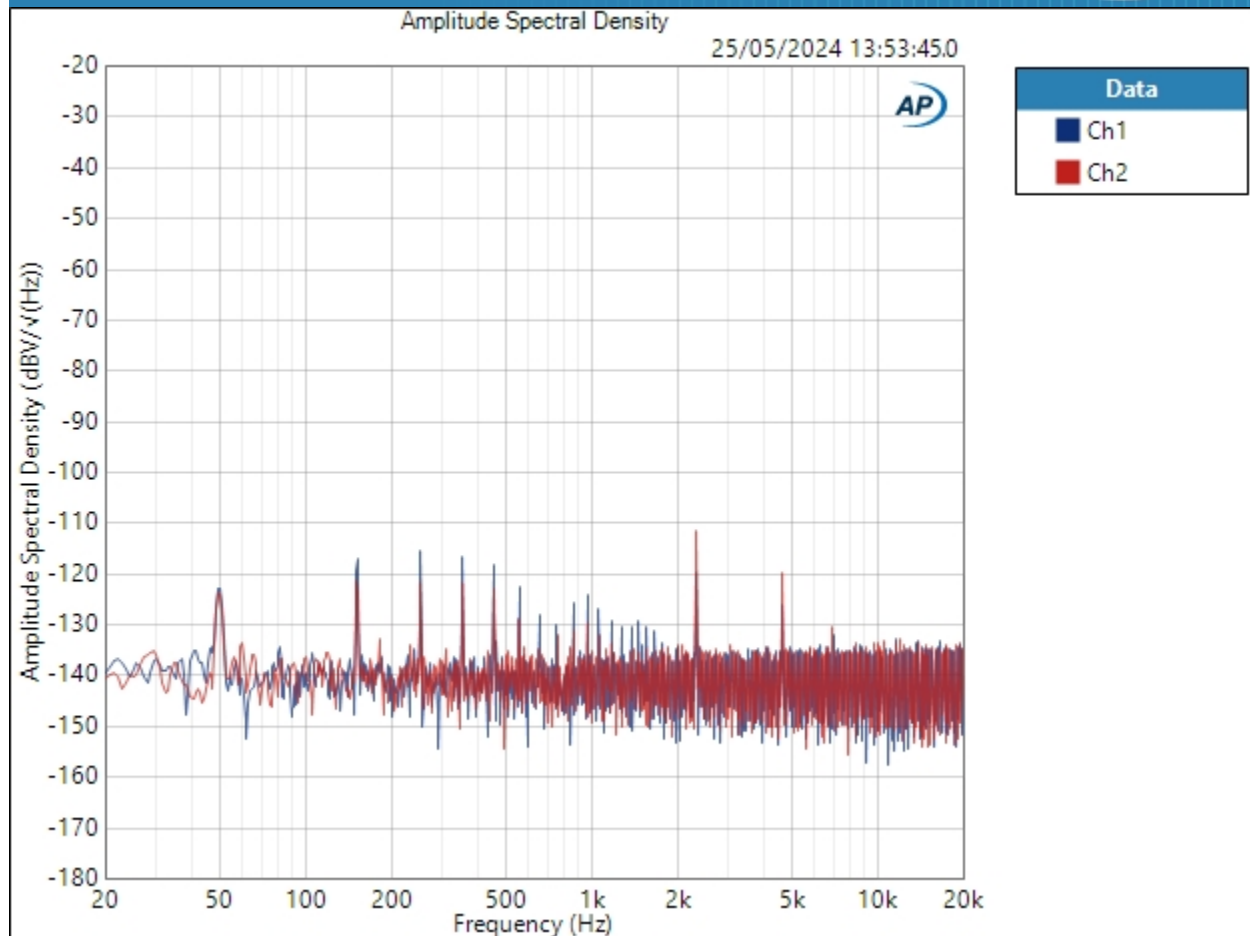
Interpolated: On

Result:  PASSED

Amplitude Spectral Density (25/05/2024 13:53:45.028)



Sequence Report

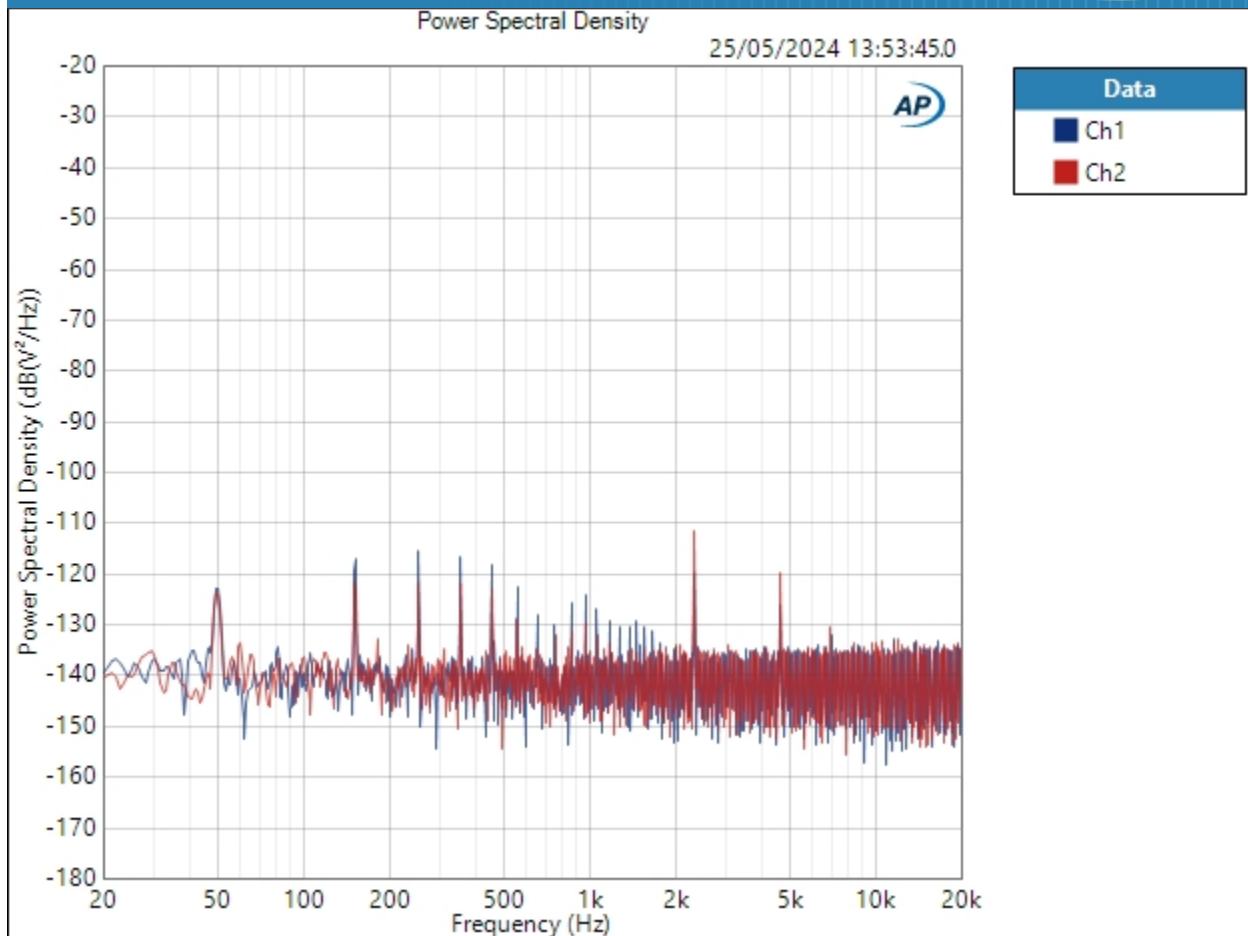


Result: PASSED

Power Spectral Density (25/05/2024 13:53:45.028)



Sequence Report



Result: PASSED



Sequence Report



SIG 4 - THD+N 90Khz : Noise (RMS)

Waveform: None
High-pass Filter: Signal Path
Low-pass Filter: Signal Path
Weighting Filter: Signal Path
Acquisition Time: 250.0 ms
Delay Time: 300.0 ms

Noise Level (25/05/2024 13:53:46.902)

Ch1 32.30 uVrms

Ch2 32.42 uVrms



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - AES17 (20 kHz)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	4.000 Vrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	700.7 mVrms
dBrB:	700.7 mVrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	700.7 mVrms



Sequence Report



dB SPL2: 10.00 mVrms
dB SPL1 Calibrator Level: 21.500 dB SPL
dB SPL2 Calibrator Level: 94.000 dB SPL
dBm (Input Power): 600.0 ohm
W(watts) (Input Power): 32.00 ohm
• DCX
DCX is not detected.
• Clocks
Output Rate: Track Output SR
Sync Out Level: 3.300 V
Sync Out Polarity: Normal
Timebase Reference: Internal
Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

SIG 5 - 700mV Performance Tests (Headphone Level) : Level and Gain

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (25/05/2024 13:54:53.648)

Ch1 700.6 mVrms
Ch2 705.9 mVrms

Gain (25/05/2024 13:54:53.648)

Ch1 -15.131 dB
Ch2 -15.067 dB



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : THD+N

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

THD+N Ratio (25/05/2024 13:54:56.541)

Ch1 0.001925 %

Ch2 0.002074 %

THD+N Level (25/05/2024 13:54:56.541)

Ch1 13.49 uVrms

Ch2 14.64 uVrms

THD Ratio (25/05/2024 13:54:56.541)

Ch1 0.000317 %

Ch2 0.000309 %

THD Level (25/05/2024 13:54:56.541)

Ch1 2.221 uVrms

Ch2 2.182 uVrms

Noise Ratio (25/05/2024 13:54:56.541)

Ch1 0.001904 %

Ch2 0.002059 %

Noise Level (25/05/2024 13:54:56.541)

Ch1 13.35 uVrms

Ch2 14.54 uVrms

Distortion Product Ratio (25/05/2024 13:54:56.541)



Sequence Report



Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-127.14	-125.46	-122.07	-124.50	-122.94	-122.93	-126.79	-123.15	-123.22
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-124.14	-124.04	-125.23	-127.14	-120.12	-123.09	-123.83	-122.39	-120.33

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

Distortion Product Level (25/05/2024 13:54:56.541)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	701.1 m	308.0 n	374.0 n	552.1 n	417.7 n	499.8 n	500.6 n	321.0 n	487.9 n	483.8 n
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	706.3 m	438.4 n	443.8 n	386.9 n	310.3 n	696.5 n	494.7 n	454.6 n	536.5 n	680.2 n

Distortion Product Level Parameters

Frequency Unit: Hz

Level Unit: Vrms

Channel: Ch1



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : Signal to Noise Ratio

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path

Signal to Noise Ratio (25/05/2024 13:54:59.453)

Ch1 93.836 dB

Ch2 93.486 dB



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : SINAD

Waveform: Sine (1 kHz)
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

SINAD (25/05/2024 13:55:02.012)

Ch1 94.311 dB

Ch2 93.570 dB

ENOB (25/05/2024 13:55:02.012)

Ch1 15.4

Ch2 15.2



Sequence Report



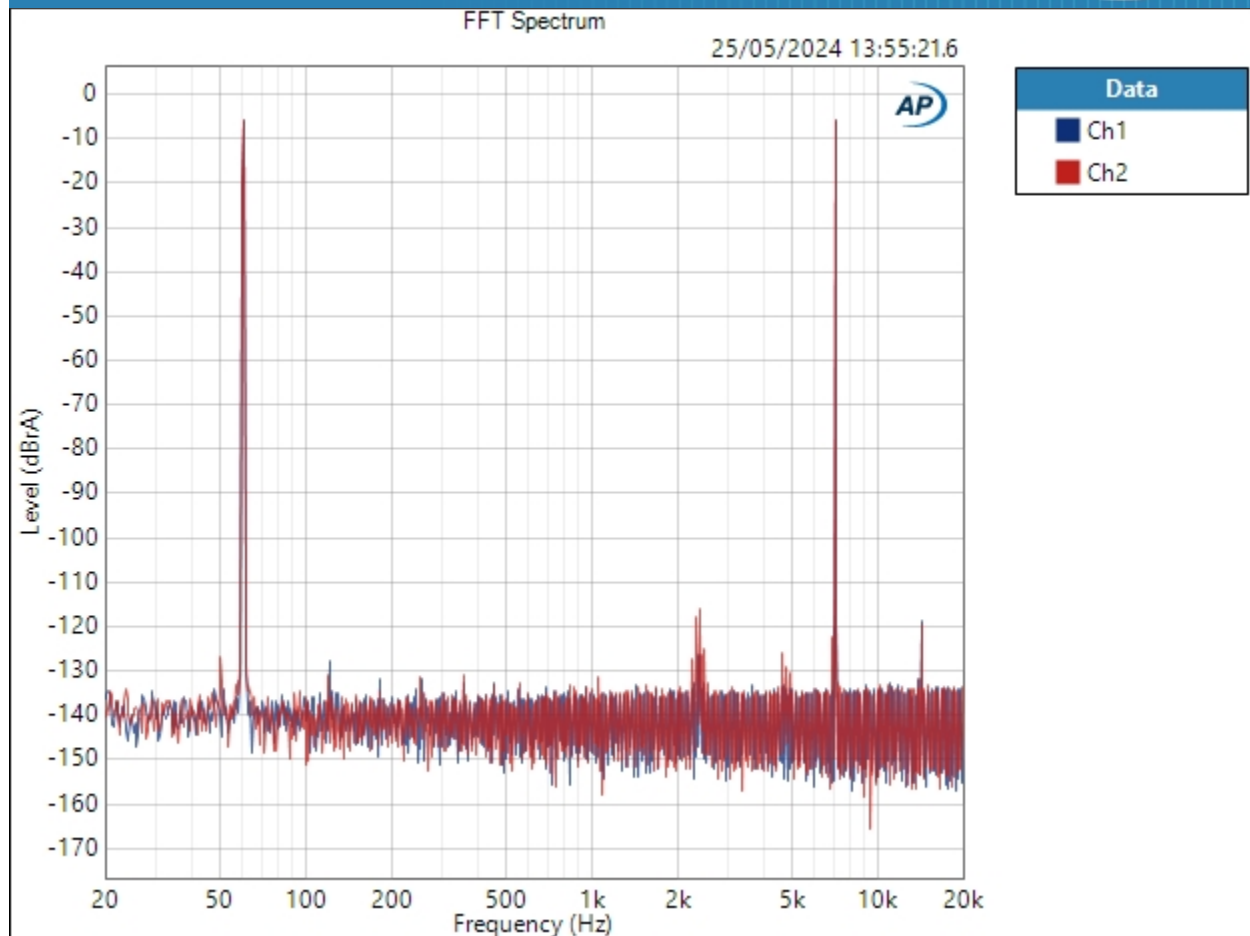
SIG 5 - 700mV Performance Tests (Headphone Level) : IMD FFT

Waveform: Sine, Dual
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Frequency: 60.0000 Hz
Frequency B: 7.00000 kHz
IMD Split: No
FB:FA Ratio: 1.000 x/y
Secondary Source: None
Measured 1 25/05/2024 13:55:21
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:55:21.689)



Sequence Report



Result: PASSED



Sequence Report



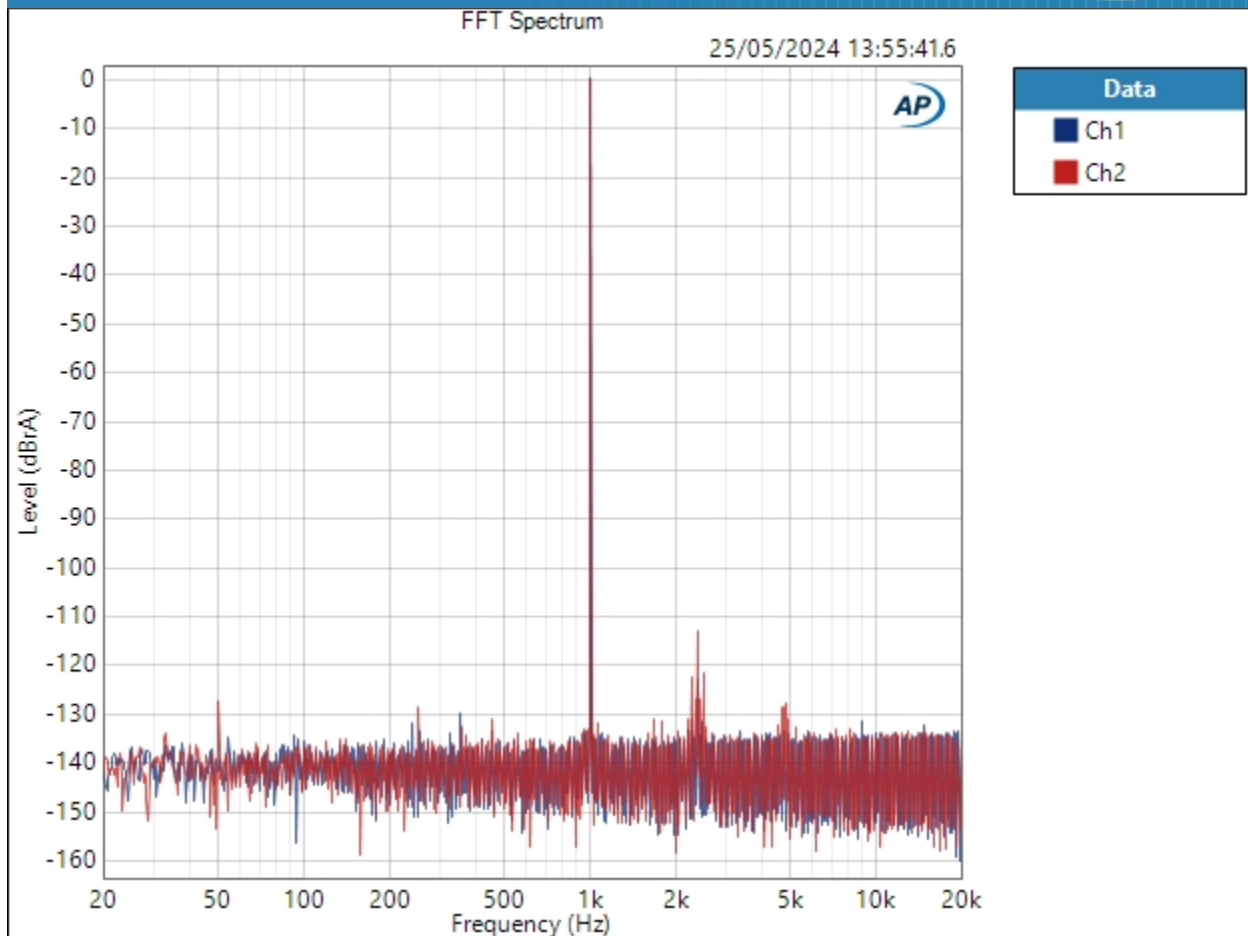
SIG 5 - 700mV Performance Tests (Headphone Level) : 1khz FFT

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 25/05/2024 13:55:41
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:55:41.682)



Sequence Report



Result:  PASSED



Sequence Report



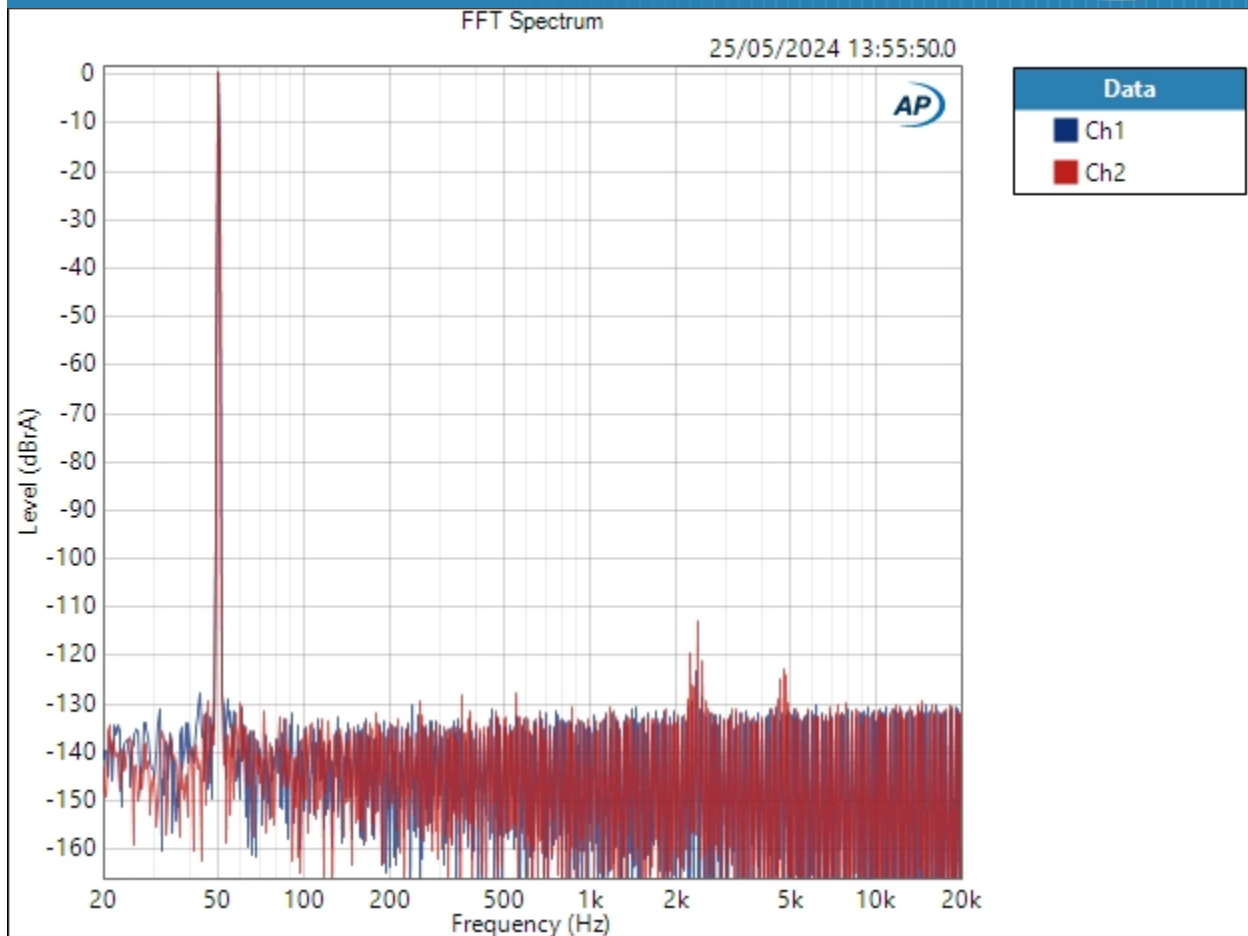
SIG 5 - 700mV Performance Tests (Headphone Level) : 50hz FFT

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 50.0000 Hz
Secondary Source: None
Measured 1: 25/05/2024 13:55:50
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 13:55:50.089)



Sequence Report



Result: PASSED



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : DIM

Generator Level: 0.000 dBrG (@4.000 Vrms)

Waveform: DIM 30

Square Freq: 3.15000 kHz

Sine Freq: 15.0000 kHz

Mode: U1...U9

Low-pass Filter: 30 kHz

DIM Ratio (25/05/2024 13:55:52.256)

Ch1 -96.624 dB

Ch2 -95.703 dB

Distortion Product Ratio (25/05/2024 13:55:52.256)

Channel	U5	U4	fq	U6	U3	U7	U2	U8	U1	U9	
Ch1	750.0	2.400k	3.150k	3.900k	5.550k	7.050k	8.700k	10.20k	11.85k	13.35k	15.00k
	-103.90	-109.09	14.11	-107.25	-104.40	-106.66	-107.25	-113.21	-105.81	-104.21	0.00
Ch2	750.0	2.400k	3.150k	3.900k	5.550k	7.050k	8.700k	10.20k	11.85k	13.35k	15.00k
	-103.85	-104.21	14.11	-106.73	-104.52	-104.47	-107.19	-108.88	-103.05	-107.98	0.00

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : Crosstalk Sweep, One Channel Undriven

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.000 dBrG (@4.000 Vrms)

Start Frequency: 20.0000 kHz

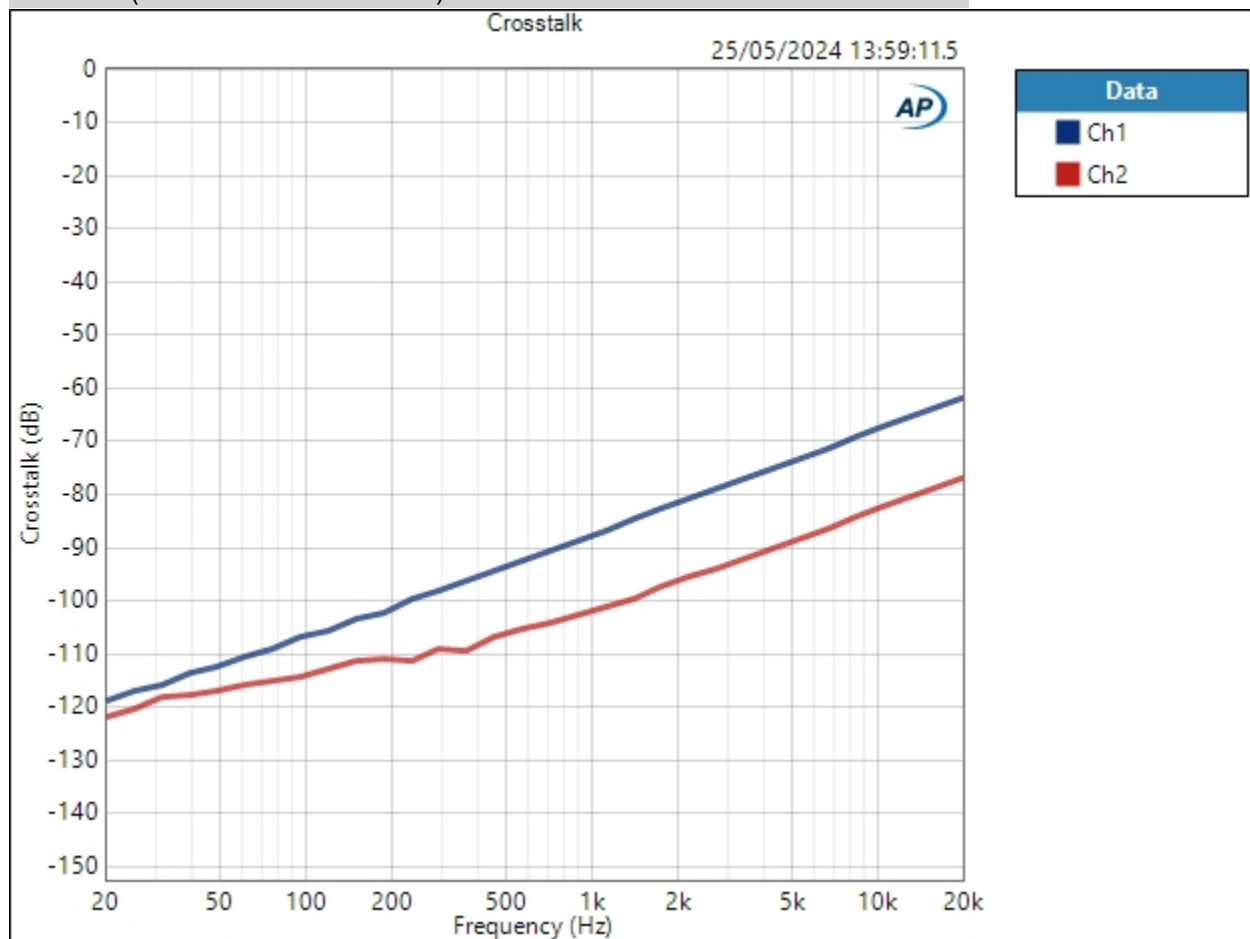
Stop Frequency: 20.0000 Hz

Step Type: Logarithmic

Number of Points: 32

Measured 1 25/05/2024 13:59:11

Crosstalk (25/05/2024 13:59:11.513)





Sequence Report



Result:  PASSED



Sequence Report



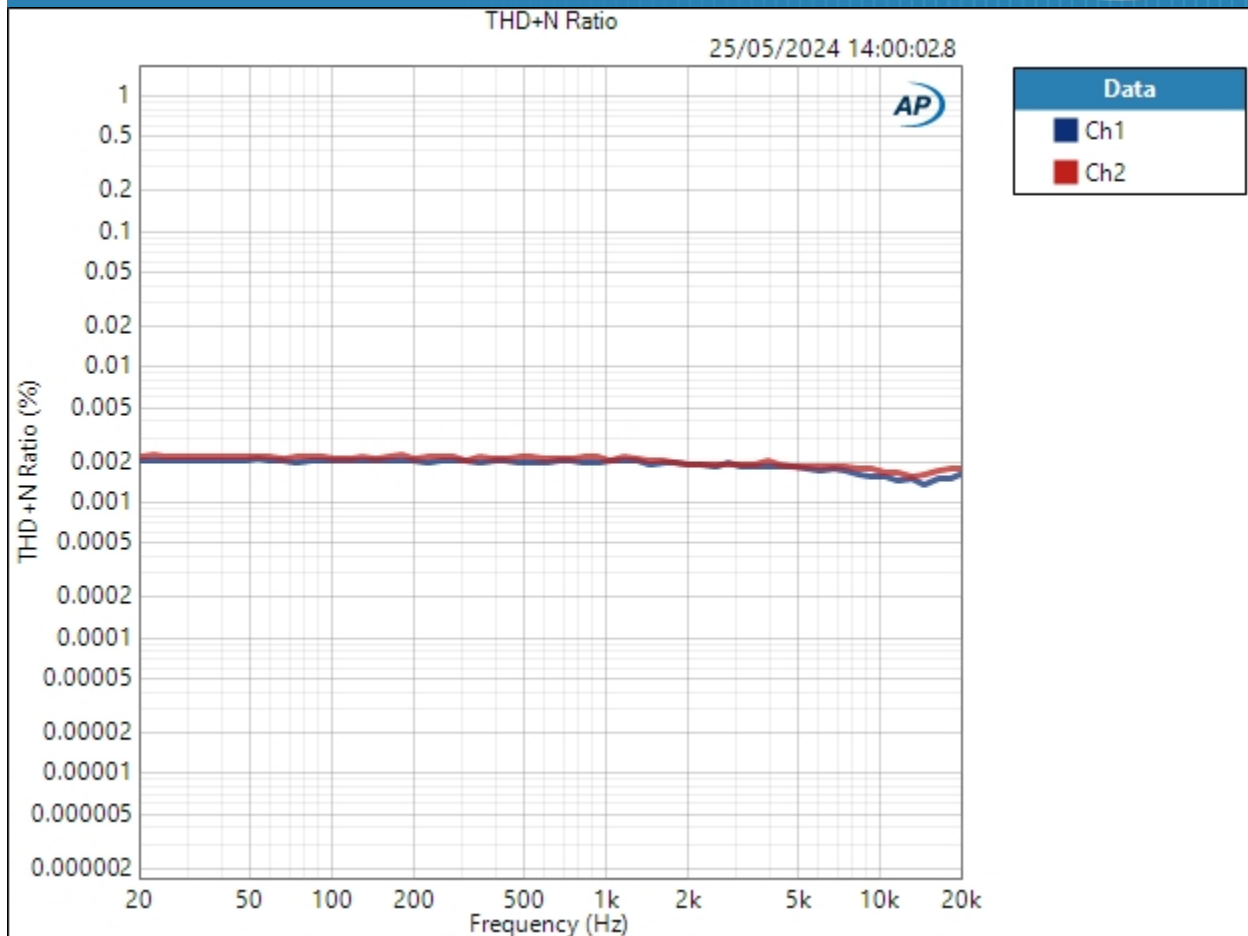
SIG 5 - 700mV Performance Tests (Headphone Level) : THD+N vs Frequency

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.000 dBrG (@4.000 Vrms)
EQ:	None
Start Frequency:	20.0000 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	25/05/2024 14:00:02

THD+N Ratio (25/05/2024 14:00:02.858)



Sequence Report

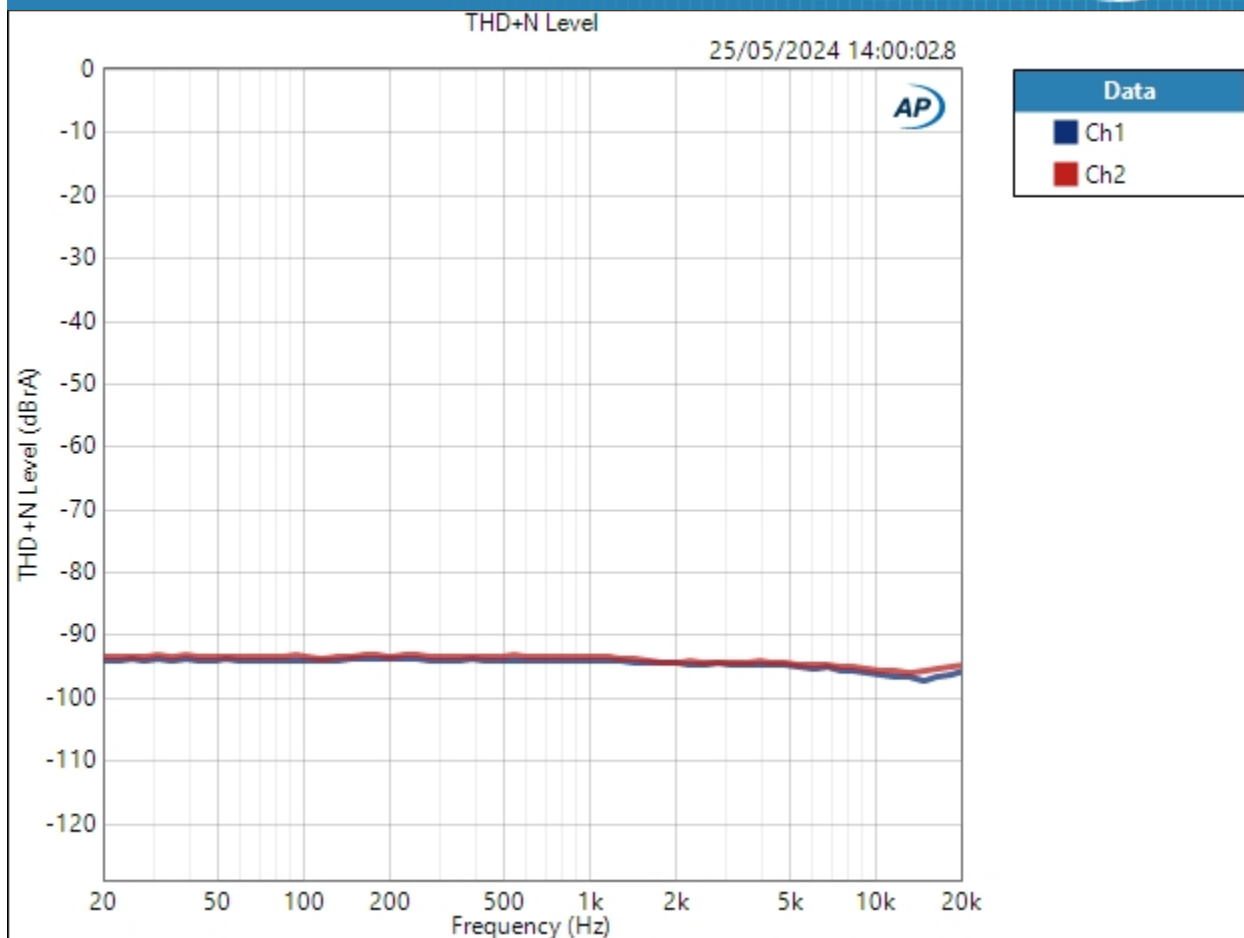


Result: PASSED

THD+N Level (25/05/2024 14:00:02.858)



Sequence Report



Result: PASSED



Sequence Report



SIG 5 - 700mV Performance Tests (Headphone Level) : DC Level (Active)

Waveform: Sine
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (25/05/2024 14:00:09.762)

Ch1 -555.2 uV

Ch2 -96.34 uV

SIG 5 - 700mV Performance Tests (Headphone Level) : DC Level (Idle)

Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (25/05/2024 14:00:16.209)

Ch1 -608.2 uV

Ch2 -87.96 uV



Sequence Report



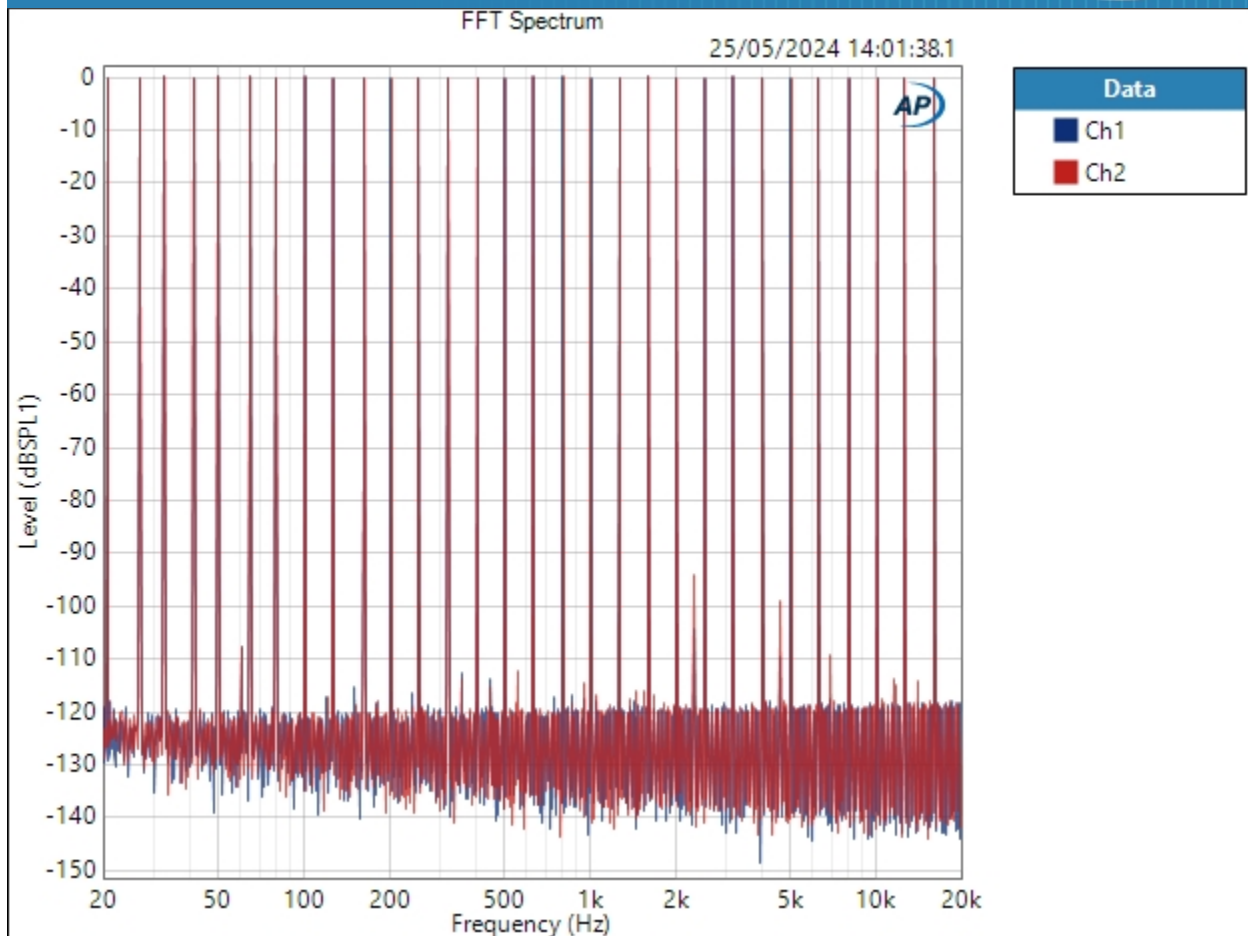
SIG 5 - 700mV Performance Tests (Headphone Level) : 32 Tone Test

Waveform: 32 Tone Test.wav
Start Offset (sec): 0.000 s
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Secondary Source: None
Measured 1 25/05/2024 14:01:38
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 1248000
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 14:01:38.136)



Sequence Report



Result: PASSED



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : Signal Path Setup

Output Connector:	Analog Balanced
Channels:	2
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Configuration:	Normal (Differential), Normal (Differential)
Source Impedance:	40 ohm, 40 ohm
Channels Inverted:	None
AG52 Generator Option:	Installed
Auto Range:	Enabled
Output EQ:	None
Input 1:	Analog Balanced
Measure:	Auto
Channels:	Auto (2 Channels)
Ch1	Data from Ch1, Sensitivity = 0.00 dB, Gain = 0.00 dB
Ch2	Data from Ch2, Sensitivity = 0.00 dB, Gain = 0.00 dB
Input Bandwidth:	AC (<10 Hz) - AES17 (20 kHz)
Input EQ:	None
Termination:	200 kohm
High Performance Sine Analyzer:	Enabled
Input 2:	None
Device Delay:	0.000 s
• References	
dBr G:	4.000 Vrms
dBm (Output Power):	600.0 ohm
W(watts) (Output Power):	32.00 ohm
Shared Frequency Reference:	1.00000 kHz
Analog Input	
dBrA:	50.08 mVrms
dBrB:	50.08 mVrms
dBrA Offset:	0.000 dB
dBrB Offset:	0.000 dB
dB SPL1:	50.08 mVrms



Sequence Report



dB SPL2: 10.00 mVrms
dB SPL1 Calibrator Level: 21.500 dB SPL
dB SPL2 Calibrator Level: 94.000 dB SPL
dBm (Input Power): 600.0 ohm
W(watts) (Input Power): 32.00 ohm
• DCX
DCX is not detected.
• Clocks
Output Rate: Track Output SR
Sync Out Level: 3.300 V
Sync Out Polarity: Normal
Timebase Reference: Internal
Jitter: Disabled
• Triggers
Source: Off
Input Logic Level: 3.300 V
Edge: Rising

SIG 6 - 50mV Performance Tests (IEM Level) : Level and Gain

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
Low-pass Filter: Signal Path

RMS Level (25/05/2024 14:03:18.685)

Ch1 50.08 mVrms
Ch2 51.07 mVrms

Gain (25/05/2024 14:03:18.685)

Ch1 -38.049 dB
Ch2 -37.877 dB



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : THD+N

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

THD+N Ratio (25/05/2024 14:03:21.536)

Ch1 0.007155 %

Ch2 0.008749 %

THD+N Level (25/05/2024 14:03:21.536)

Ch1 3.585 uVrms

Ch2 4.471 uVrms

THD Ratio (25/05/2024 14:03:21.536)

Ch1 0.001147 %

Ch2 0.001186 %

THD Level (25/05/2024 14:03:21.536)

Ch1 574.6 nVrms

Ch2 606.1 nVrms

Noise Ratio (25/05/2024 14:03:21.536)

Ch1 0.007134 %

Ch2 0.008778 %

Noise Level (25/05/2024 14:03:21.536)

Ch1 3.574 uVrms

Ch2 4.486 uVrms

Distortion Product Ratio (25/05/2024 14:03:21.536)



Sequence Report



Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	-0.00	-113.20	-109.97	-111.71	-110.51	-109.03	-113.49	-112.79	-112.83	-111.88
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	-0.00	-115.86	-111.42	-113.00	-106.53	-112.31	-109.43	-109.73	-110.65	-115.16

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1

Distortion Product Level (25/05/2024 14:03:21.536)

Channel	F	H2	H3	H4	H5	H6	H7	H8	H9	H10
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch1	50.10 m	109.6 n	159.0 n	130.1 n	149.3 n	177.2 n	106.0 n	114.9 n	114.4 n	127.7 n
	1.000k	2.000k	3.000k	4.000k	5.000k	6.000k	7.000k	8.000k	9.000k	10.00k
Ch2	51.10 m	82.29 n	137.3 n	114.4 n	240.9 n	123.9 n	172.5 n	166.6 n	150.0 n	89.19 n

Distortion Product Level Parameters

Frequency Unit: Hz

Level Unit: Vrms

Channel: Ch1



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : Signal to Noise Ratio

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path

Signal to Noise Ratio (25/05/2024 14:03:24.752)

Ch1 82.706 dB

Ch2 80.920 dB



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : SINAD

Waveform: Sine (1 kHz)
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
High-pass Filter: Elliptic
High-pass Frequency: 20 Hz
Low-pass Filter: Elliptic
Low-pass Frequency: 20 kHz
Weighting Filter: Signal Path
Notch Tuning Mode: Measured Frequency

SINAD (25/05/2024 14:03:27.130)

Ch1 82.850 dB

Ch2 81.043 dB

ENOB (25/05/2024 14:03:27.130)

Ch1 13.5

Ch2 13.2



Sequence Report



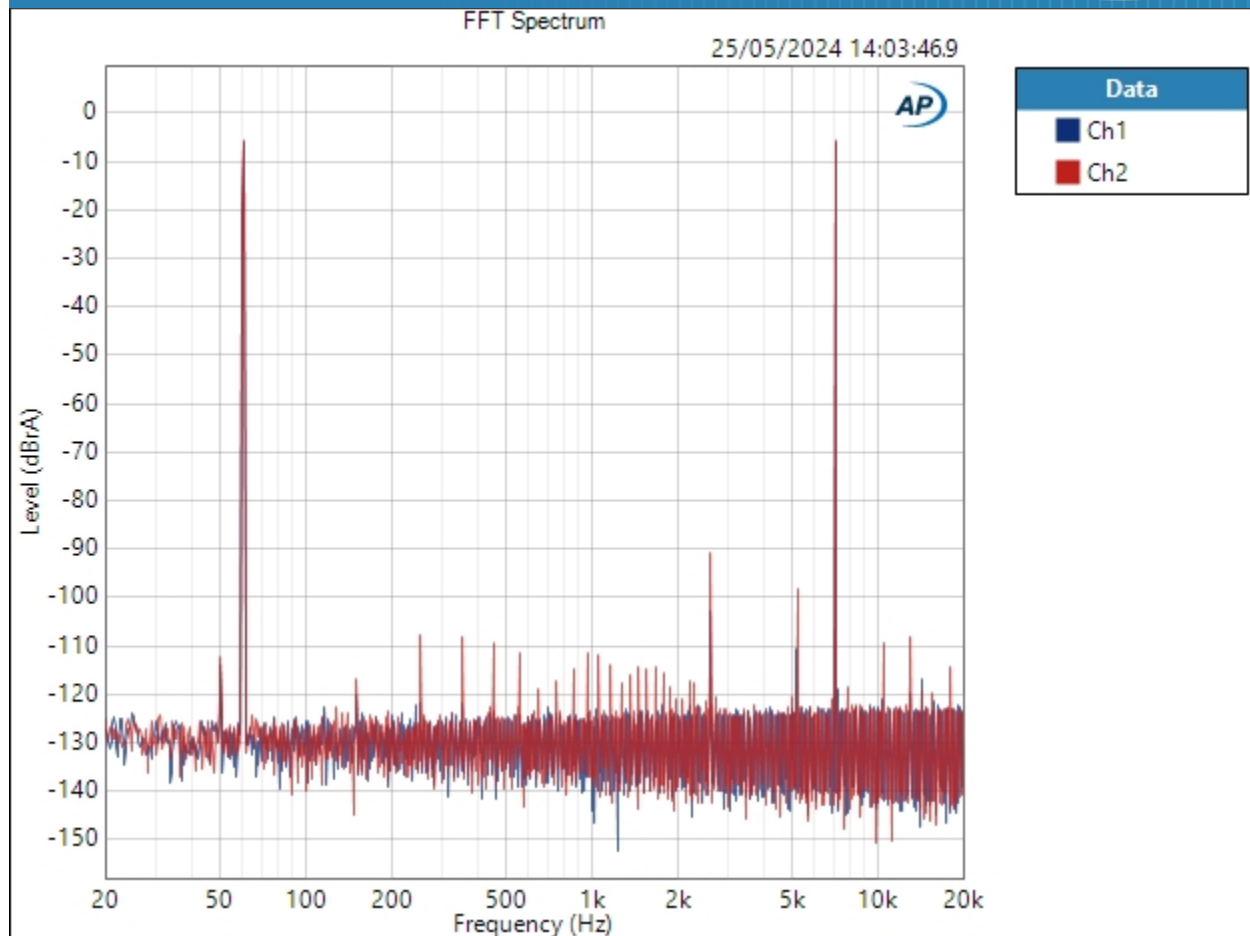
SIG 6 - 50mV Performance Tests (IEM Level) : IMD FFT

Waveform: Sine, Dual
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Frequency: 60.0000 Hz
Frequency B: 7.00000 kHz
IMD Split: No
FB:FA Ratio: 1.000 x/y
Secondary Source: None
Measured 1 25/05/2024 14:03:46
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 14:03:46.907)



Sequence Report



Result: PASSED



Sequence Report



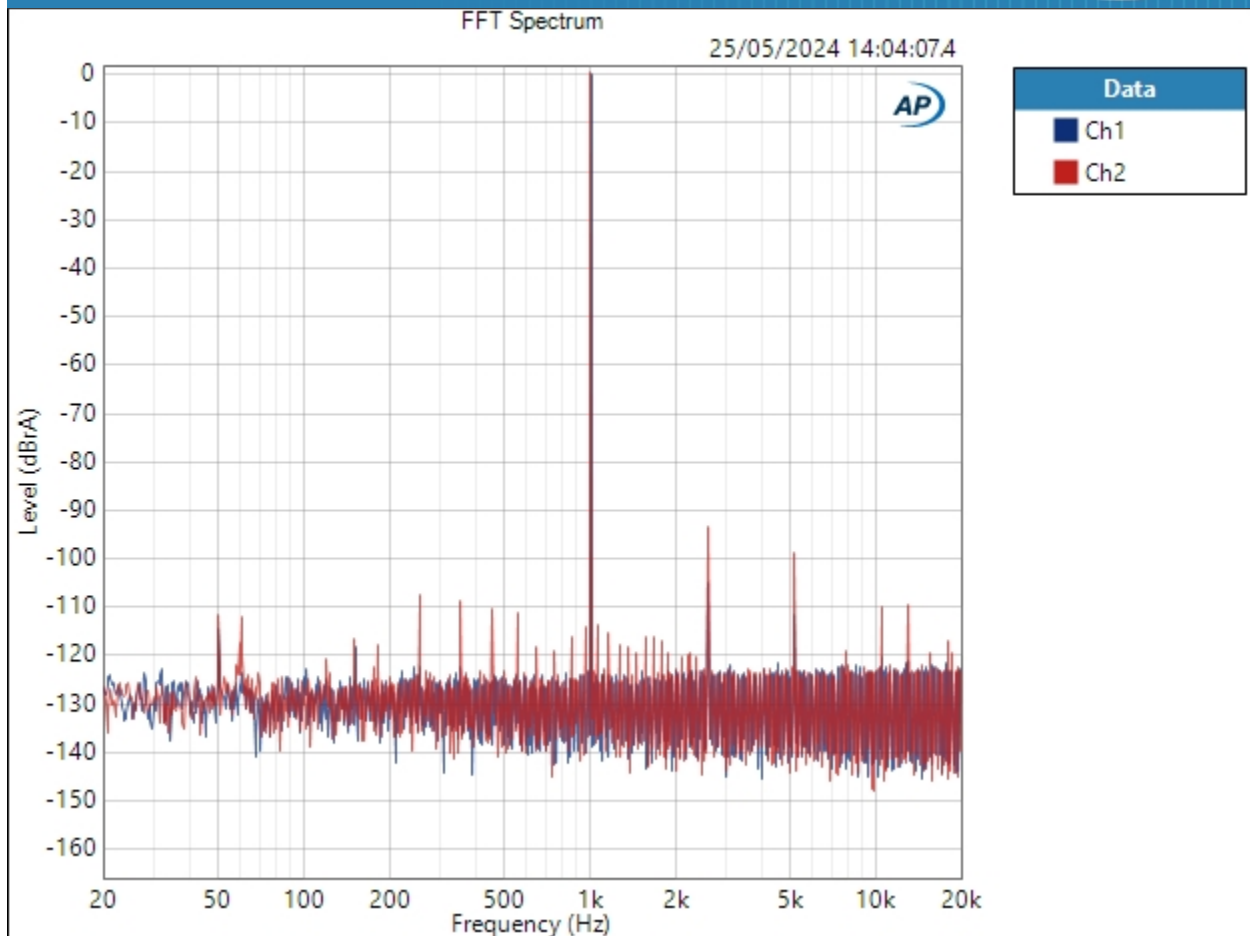
SIG 6 - 50mV Performance Tests (IEM Level) : 1khz FFT

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 1.00000 kHz
Secondary Source: None
Measured 1 25/05/2024 14:04:07
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 14:04:07.410)



Sequence Report



Result: PASSED



Sequence Report



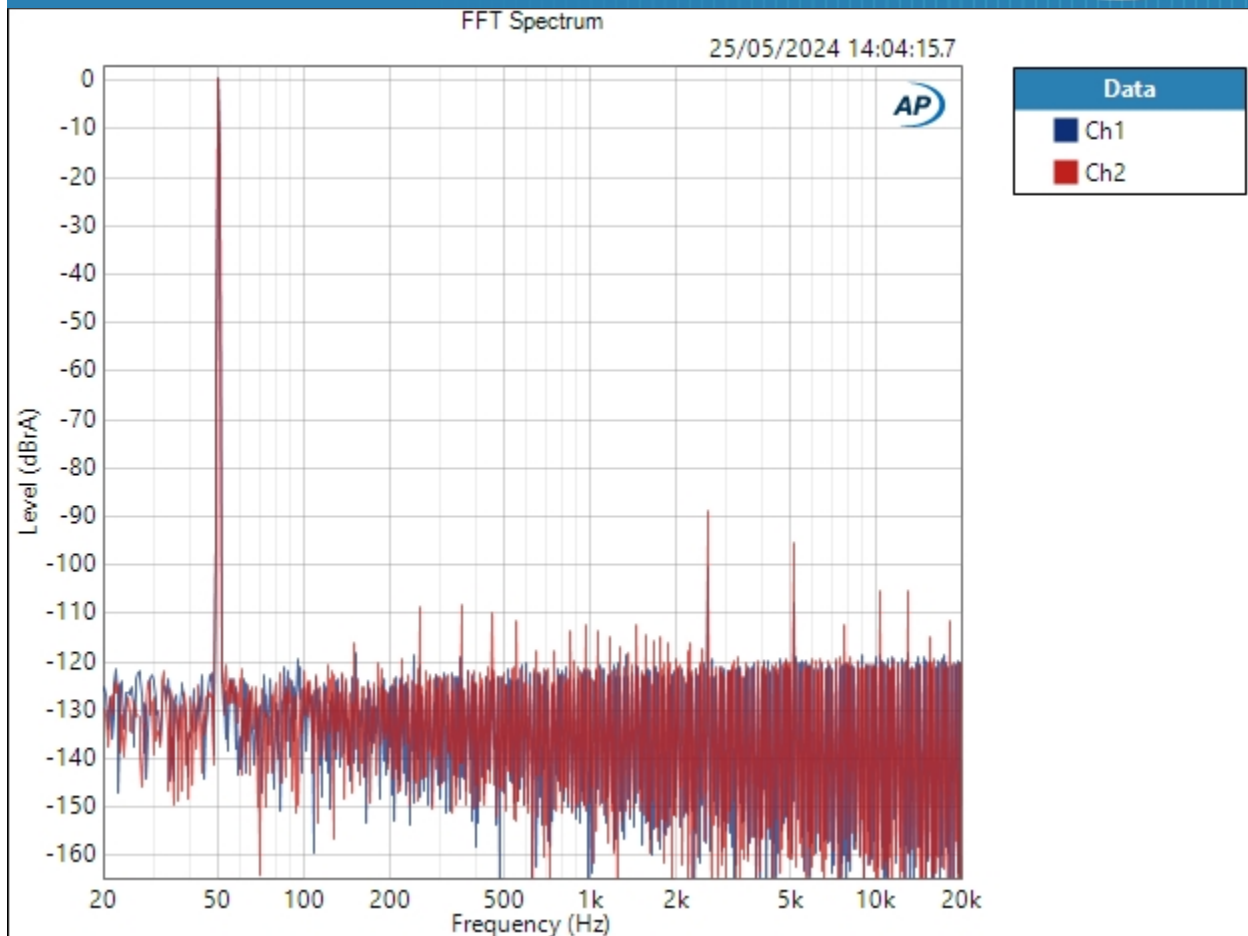
SIG 6 - 50mV Performance Tests (IEM Level) : 50hz FFT

Waveform: Sine
Generator Mode: High Performance Sine Generator
Precision Tune: Disabled
Generator Level: 0.000 dBrG (@4.000 Vrms)
Frequency: 50.0000 Hz
Secondary Source: None
Measured 1 25/05/2024 14:04:15
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 262144
Averaging: Power
Averages: 1
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 14:04:15.726)



Sequence Report



Result: PASSED



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : DIM

Generator Level: 0.000 dBrG (@4.000 Vrms)

Waveform: DIM 30

Square Freq: 3.15000 kHz

Sine Freq: 15.0000 kHz

Mode: U1...U9

Low-pass Filter: 30 kHz

DIM Ratio (25/05/2024 14:04:17.753)

Ch1 -87.614 dB

Ch2 -88.246 dB

Distortion Product Ratio (25/05/2024 14:04:17.753)

Channel	U5	U4	fq	U6	U3	U7	U2	U8	U1	U9	
Ch1	750.0	2.400k	3.150k	3.900k	5.550k	7.050k	8.700k	10.20k	11.85k	13.35k	15.00k
	-95.98	-98.50	14.10	-98.08	-98.36	-98.60	-99.63	-95.10	-99.28	-94.39	0.00
Ch2	750.0	2.400k	3.150k	3.900k	5.550k	7.050k	8.700k	10.20k	11.85k	13.35k	15.00k
	-99.42	-97.00	14.10	-98.21	-96.21	-97.04	-98.80	-99.70	-98.40	-96.73	0.00

Distortion Product Ratio Parameters

Frequency Unit: Hz

Ratio Unit: dB

Channel: Ch1



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : Crosstalk Sweep, One Channel Undriven

Generator Mode: High Performance Sine Generator

Precision Tune: Disabled

Generator Level: 0.000 dBrG (@4.000 Vrms)

Start Frequency: 20.0000 kHz

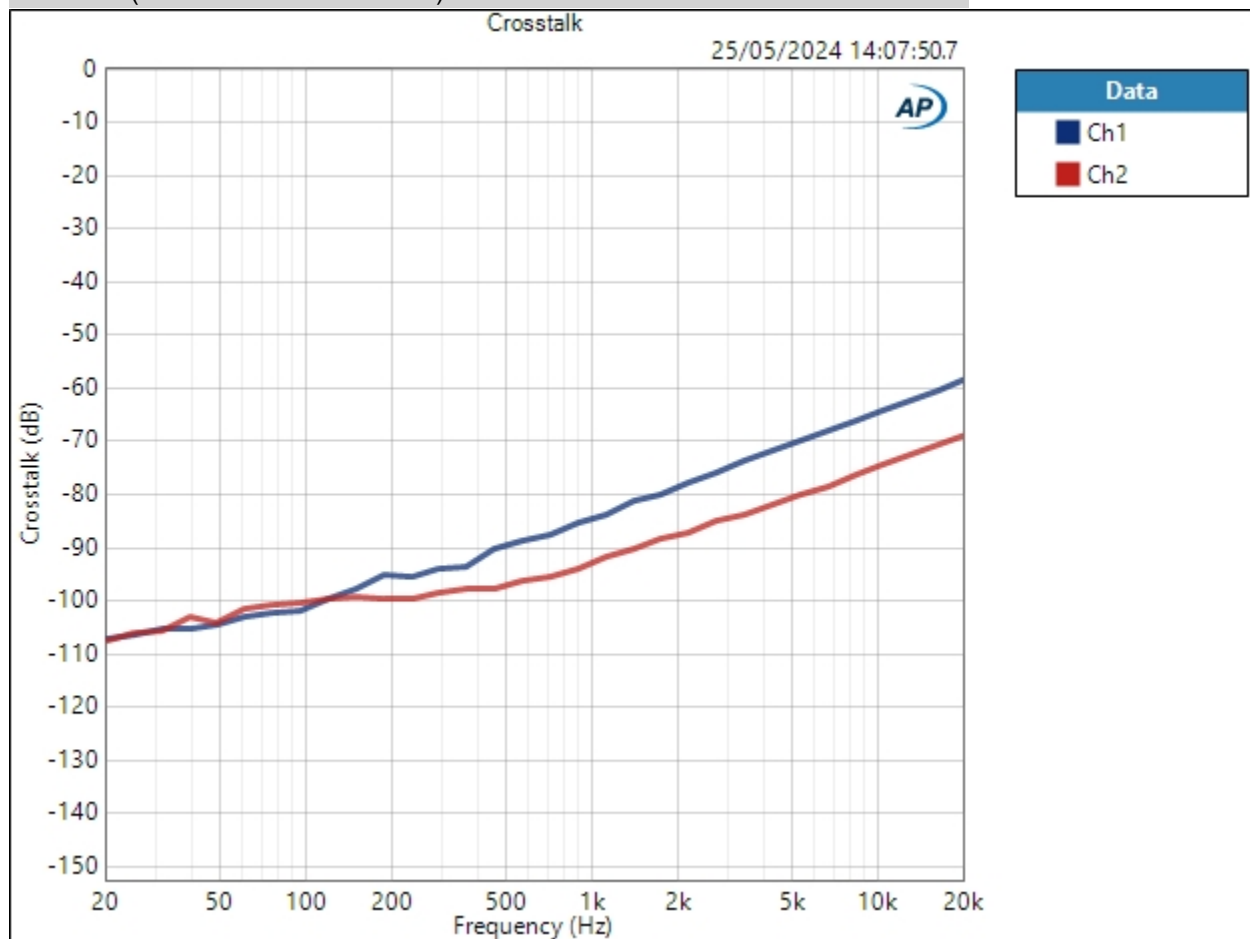
Stop Frequency: 20.0000 Hz

Step Type: Logarithmic

Number of Points: 32

Measured 1 25/05/2024 14:07:50

Crosstalk (25/05/2024 14:07:50.759)





Sequence Report



Result:  PASSED



Sequence Report



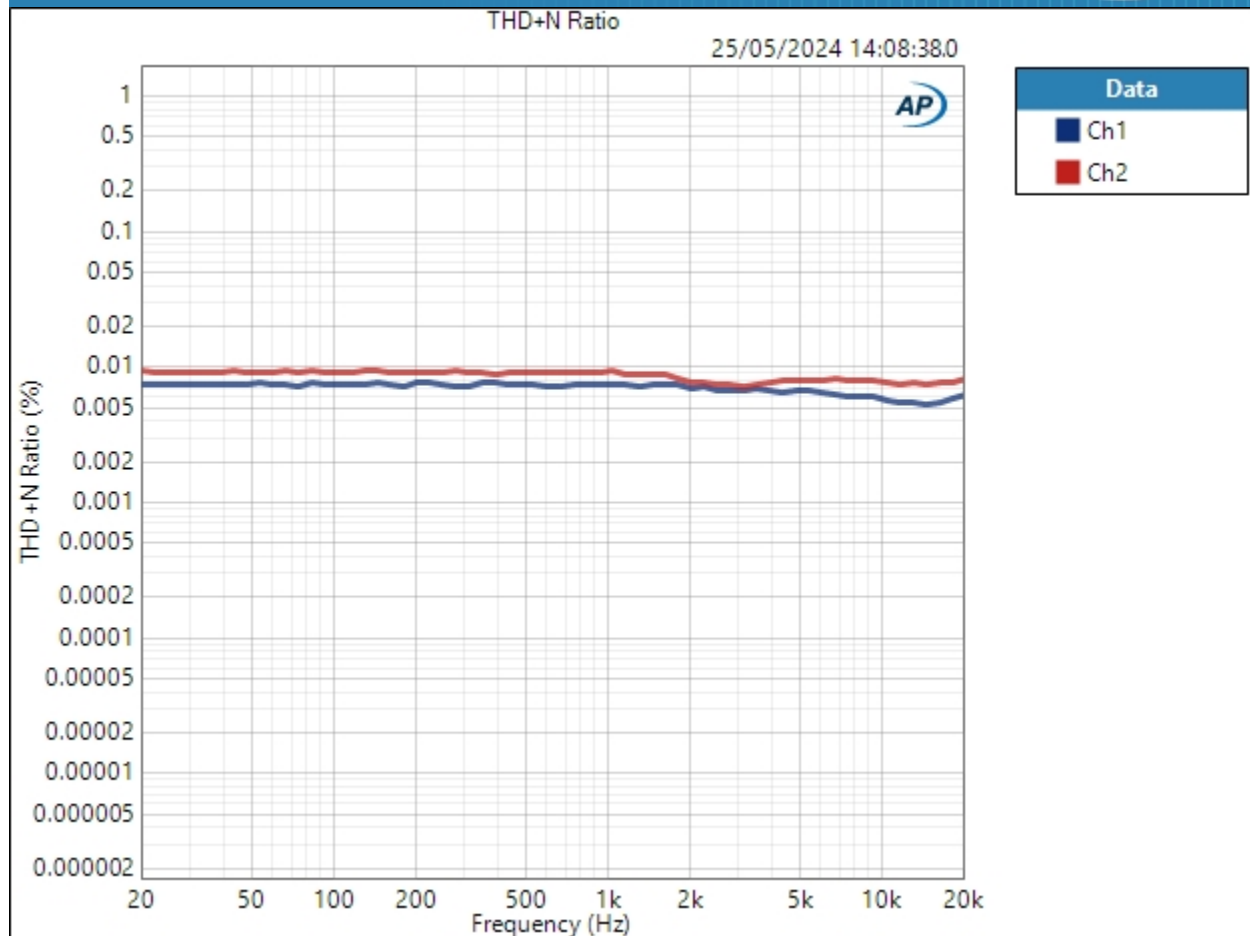
SIG 6 - 50mV Performance Tests (IEM Level) : THD+N vs Frequency

Waveform:	Sine
Generator Mode:	High Performance Sine Generator
Precision Tune:	Disabled
Generator Level:	0.000 dBrG (@4.000 Vrms)
EQ:	None
Start Frequency:	20.0000 kHz
Stop Frequency:	20.0000 Hz
Step Type:	Logarithmic
Number of Points:	64
High-pass Filter:	Elliptic
High-pass Frequency:	20 Hz
Low-pass Filter:	Signal Path
Weighting Filter:	Signal Path
Phase Ref Channel:	Ch1
Measured 1	25/05/2024 14:08:38

THD+N Ratio (25/05/2024 14:08:38.016)



Sequence Report

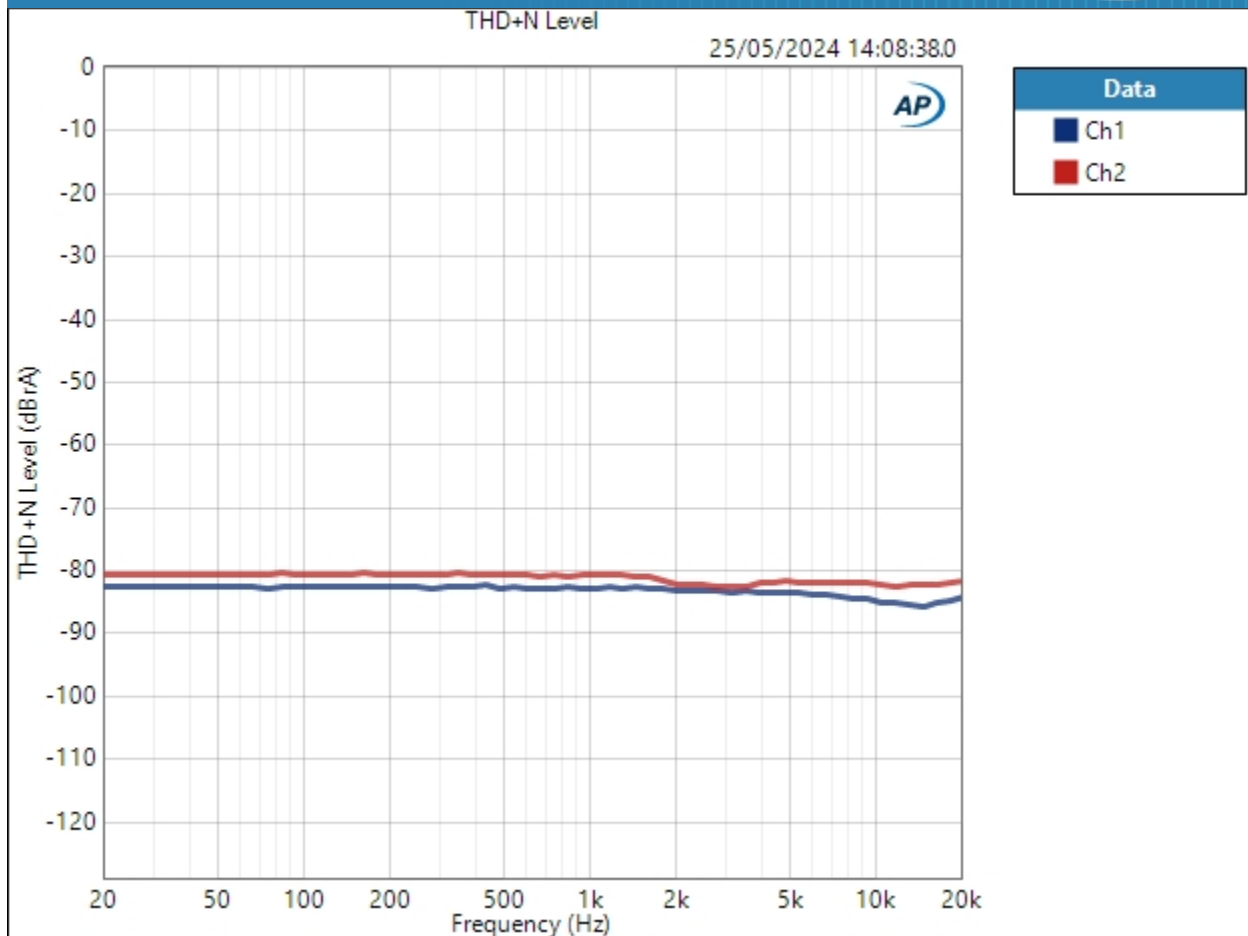


Result: PASSED

THD+N Level (25/05/2024 14:08:38.016)



Sequence Report



Result: PASSED



Sequence Report



SIG 6 - 50mV Performance Tests (IEM Level) : DC Level (Active)

Waveform: Sine
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (25/05/2024 14:08:44.925)

Ch1 -594.3 uV

Ch2 -117.4 uV

SIG 6 - 50mV Performance Tests (IEM Level) : DC Level (Idle)

Waveform: Sine
Generator Level: 0.000 Vrms
DC Offset: 0.000 V
Frequency: 1.00000 kHz
Delay Time: 100.0 ms
Acquisition Time: 333.0 ms

DC Level (25/05/2024 14:08:51.412)

Ch1 -593.4 uV

Ch2 -118.7 uV



Sequence Report



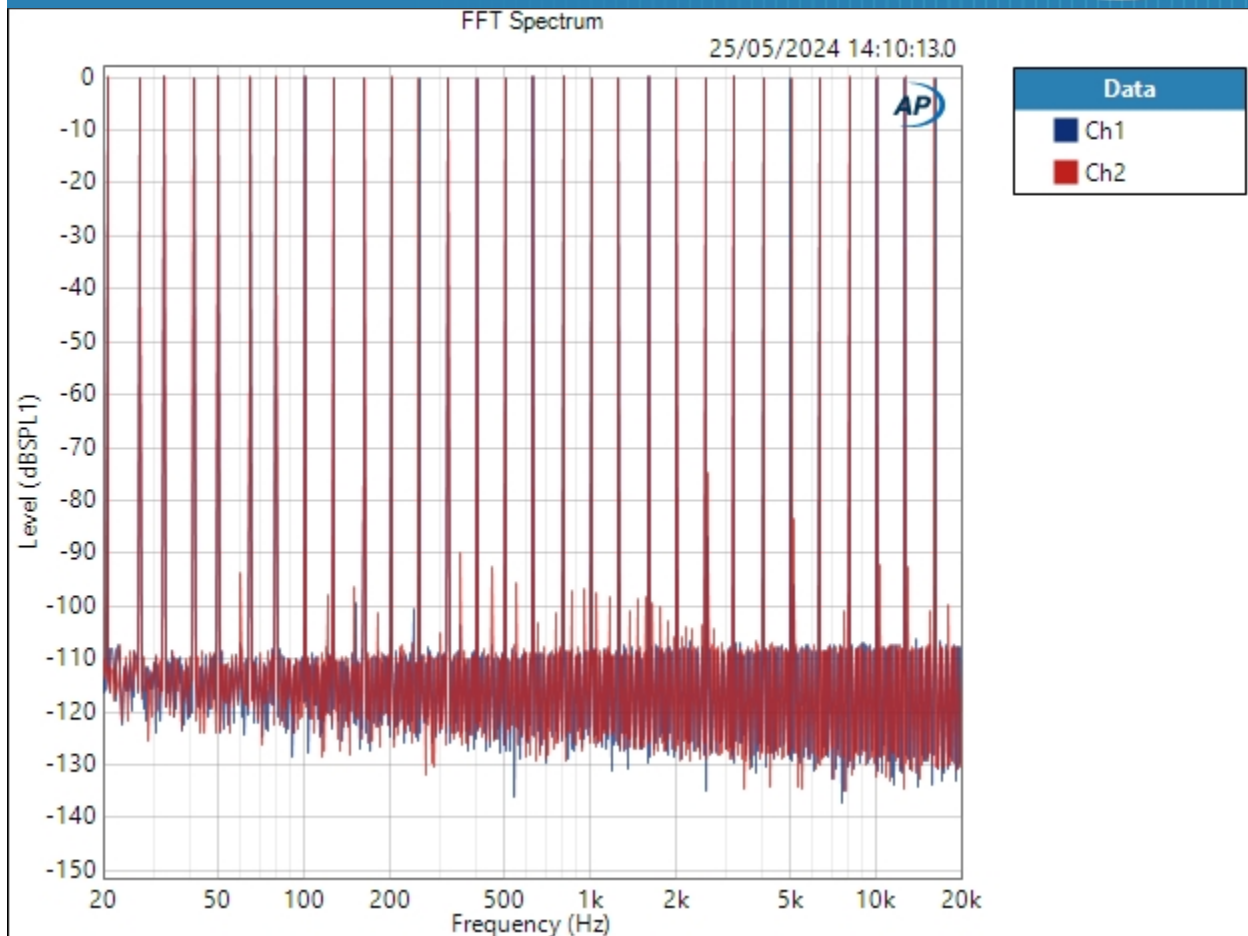
SIG 6 - 50mV Performance Tests (IEM Level) : 32 Tone Test

Waveform: 32 Tone Test.wav
Start Offset (sec): 0.000 s
Generator Level: 0.000 dBrG (@4.000 Vrms)
DC Offset: 0.000 V
Secondary Source: None
Measured 1 25/05/2024 14:10:13
Acquisition Type: Auto
Trigger: Free Run
Delay Time: 250.0 ms
Input Bandwidth: Use Signal Path
FFT Length: 1248000
Averaging: Power
Averages: 3
Window: AP-Equiripple
Record Acquisition: False
Recording Type: Multiple Mono PCM (.wav)

FFT Spectrum (25/05/2024 14:10:13.016)



Sequence Report



Result: PASSED