



HAC Receive Volume Control Test Report

For

Applicant Name: Hot Pepper Mobile Inc.
Address: 350 10th Ave 1000 Ste San Diego California United States 92101-8705
EUT Name: Smart Phone
Brand Name: Hot pepper
Model Number: HPPH88L

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

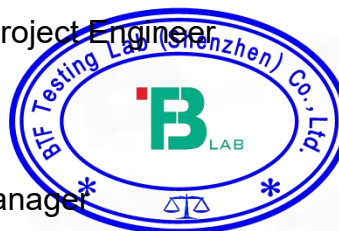
Report Number: BTF260114R00103
Test Standards: ANSI C63.19:2019 FCC 47 CFR §20.19 TIA-5050:2018
FCC ID: 2A33N-L67B

Test Conclusion: Pass
Test Date: 2026-01-25 to 2026-01-31
Date of Issue: 2026-02-01

Tested By: Kris . Li
Date: Kris Li / Tester
2026-02-01

Reviewed By: Amenda Zhong
Date: Amenda Zhong / Project Engineer
2026-02-01

Approved By: Ryan.CJ
Date: Ryan.CJ / EMC Manager
2026-02-01



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Revision History		
Version	Issue Date	Revisions Content
Rev_V0	2026-02-01	Original
Note:	Once the revision has been made, then previous versions reports are replaced by the latest version.	

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
FCC Registration Number	518915
Designation Number	CN1409

1.3 Laboratory Condition

Ambient Temperature:	18°C to 25°C
Ambient Relative Humidity:	32% to 49%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Product Information

2.1 Application Information

Company Name:	Hot Pepper Mobile Inc.
Address:	350 10th Ave 1000 Ste San Diego California United States 92101-8705

2.2 Manufacturer Information

Company Name:	Hot Pepper Mobile Inc.
Address:	350 10th Ave 1000 Ste San Diego California United States 92101-8705

2.3 Factory Information

Company Name:	Hot Pepper Mobile Inc.
Address:	350 10th Ave 1000 Ste San Diego California United States 92101-8705

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart Phone
Under Test Model Name	HPPH88L
Series Model Name	N/A
Description of Model name differentiation	N/A
Dimensions (Approx.)	164*75*9mm
Weight (Approx.)	198g

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Battery	
	Model No.	HPPH88L
	Capacity	Typical capacity: 3000mAh
	Rated Voltage	3.7 V

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/17/25/26/66/71 TDD LTE Band 41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/HT40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40) BT (EDR+BLE)
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2.7 Equipment under Test (EUT) Description

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth	
Frequency Range	GSM 850	TX: 824 ~ 849 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz
	LTE Band 5	TX: 824 ~ 849 MHz
	LTE Band 12	TX: 699 ~ 716 MHz
	LTE Band 17	TX: 704 ~ 716 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz
	LTE Band 26 part 90	TX: 814 ~ 824 MHz
	LTE Band 26 part 22	TX: 824 ~ 849 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz
	LTE Band 71	TX: 645.5 ~ 708 MHz
	802.11b/g/n(HT20)	2412 ~ 2462 MHz
	802.11n(HT40)	2422 ~ 2452 MHz
	802.11a /802.11n(HT20/40) /802.11ac(HT20/40)	U-NII-1: 5150 MHz ~ 5250 MHz, U-NII-2A: 5250 MHz ~ 5350 MHz, U-NII-2C: 5500 MHz ~ 5700 MHz, U-NII-3: 5725 MHz ~ 5850 MHz
	Bluetooth	2402 ~ 2480 MHz
Modulation Mode	GSM/GPRS: GMSK EDGE: 8PSK WCDMA: QPSK, 16QAM LTE: QPSK, 16QAM, 64QAM 802.11b: DSSS 802.11g: OFDM 802.11n-HT20/HT40: OFDM 802.11a/g: OFDM 802.11n-HT20/HT40: OFDM 802.11ac-VHT20/VHT40: OFDM BR+EDR: GFSK, $\pi/4$ -DQPSK, 8-DPSK Bluetooth BLE: GFSK	

3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	ANSI C63.19-2019	American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids
2	FCC 47 CFR §20.19	Hearing Aid Compatible Mobile Headsets
3	TIA-5050:2018	Telecommunications Communications Products Receive Volume Control Requirements for Wireless (Mobile) Devices
4	KDB 285076 D05v01	CG Interim Waiver DA 23-914
5	KDB 285076 D04v02	Volume Control
6	KDB 285076 D01v06r04	HAC Guidance
7	KDB 285076 D03 v01r05	HAC FAQ

3.2 Air Interfaces / Bands Indicating Operating Modes

Air Interface	Band	Type	Simultaneous Transmitter	Name of Service
GSM	850	VO	WLAN & BT	CMRS Voice
	1900	VO	WLAN & BT	CMRS Voice
	GPRS/EGPRS	DT	N/A	N/A
WCDMA	Band II	VO	WLAN & BT	CMRS Voice
	Band IV	VO	WLAN & BT	CMRS Voice
	Band V	VO	WLAN & BT	CMRS Voice
	HSPA	DT	N/A	N/A
LTE	Band 2	VD	WLAN & BT	VoLTE
	Band 4	VD	WLAN & BT	VoLTE
	Band 5	VD	WLAN & BT	VoLTE
	Band 12	VD	WLAN & BT	VoLTE
	Band 17	VD	WLAN & BT	VoLTE
	Band 25	VD	WLAN & BT	VoLTE
	Band 26 part 90	VD	WLAN & BT	VoLTE
	Band 26 part 22	VD	WLAN & BT	VoLTE
	Band 41	VD	WLAN & BT	VoLTE
	Band 66	VD	WLAN & BT	VoLTE
	Band 71	VD	WLAN & BT	VoLTE
WLAN	2.4g	DT	WWAN	N/A
BT	2450	DT	WWAN	N/A

NA: Not Applicable
 VO: Voice Only
 VD: CMRS and IP Voice Service over Digital Transport
 DT: Digital Transport Only
 Note: The hearing aid compatibility mode of the prototype was turned on during testing, and all tests were performed in HAC mode.

3.3 Statement of Volume Control

The lowest conversational gain found during test as bellows:

Mounting Force	Lowest Conversational Gain (dB)
2N	19.82
8N	11.67

Note:

1. This device is in compliance with HAC requirement specified in FCC 47 CFR Part 20.19 and ANSI C63.19-2019 and tested in accordance with the measurement methods and procedures specified in ANSI/TIA-5050-2018 and FCC KDB publications.
2. The 2N force is used for testing requirements related to use by persons with hearing devices and the 8N force is used for testing requirements related to use by persons without hearing devices.

4. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances. Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations.

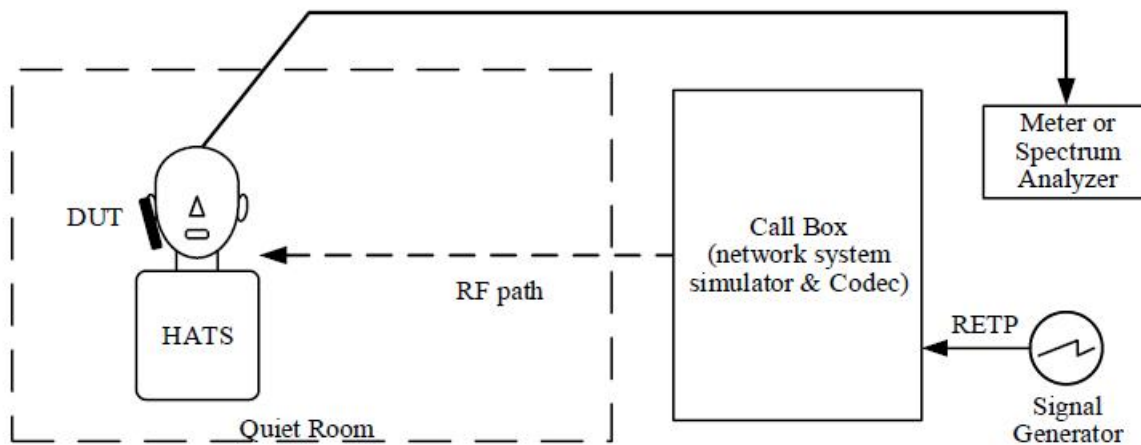
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Component	Standard Uncertainty (dB)	U ² (%)
Generator Accuracy To enable harmonic distortion measurements to 0.1%, the generator distortion must be <0.05%. This is equivalent to a standard uncertainty of 0.043 dB.	0.043	0.25
Ear Simulator Pressure Sensitivity (incl. Measurement Mic.) The uncertainty of the ear simulator as per the standards and quoted on its calibration certificate is 0.3 dB with a coverage factor of k= 2. This is equivalent to a standard uncertainty of $0.3/2 = 0.15$ dB	0.15	3.03
Microphone Preamplifier The manufacturer quotes the preamp to be within + 0.02 dB with a 95% probability or 2σ. This is equivalent to a standard uncertainty of $0.02/2 = 0.01$ dB.	0.01	0.01
Analysis System/RMS Detector Typical measurement system detector accuracy is 0.1 dB with a coverage factor of k= 2. This is equivalent to a standard uncertainty of $0.1/2 = 0.05$ dB	0.05	0.33
Effect of Positioning on Mid-Band Sensitivity For a handset, with the HATS positioning jig, the typical standard deviation estimated from a statistically significant number of measurements is +2 dB. This is equivalent to a standard uncertainty of 2 dB.	2	670.42
Time Varying Effects of the Mouth Simulator for Send & Sidetone For a receive measurement on a handset, the mouth simulator is not used (its uncertainty is zero). The standard uncertainty of 0 dB	0	0
Total Standard Uncertainty (%)	25.06	
UMAX(k=2)(%)	51.9	
UMAX(k=2)(dB)	3.6	

5. Measurement System

5.1 MEASUREMENT SET-UP

The general test arrangement is shown in Figure 1. The Call Box passes the voice channel stream to the DUT without modification. There is no gain or loss in the voice channel stream due to the Call Box interface.



NOTES:

1. Additional information related to the air interface for the various RF technologies is specified in several 3GPP documents. A list of these can be found in 3GPP TS 26.132 V14.0.0 clause 4
2. Additional information related to the test setup can be found in 3GPP TS 26.132, V14.0.0 clause 5.1.
3. The RETP (receive electrical test point) is the point in the device test arrangement where signals are applied to the DUT in the receive direction.

6. Evaluation of Test

6.1 RECEIVE VOLUME CONTROL PERFORMANCE

6.1.1 Requirement

1. With a mounting force of 8N, the DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 18 dB with the output distortion and the frequency response meeting the requirements in clause 5.2.1 & 5.3.1 respectively.
2. With a mounting force of 2N, the DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 6 dB with the output distortion and the frequency response meeting the requirements in clause 5.2.1 & 5.3.1 respectively.

NOTE: Other acoustic receive features may be available such as additional amplification, tone control, automatic gain control, etc. ANSI/TIA-4953-B contains performance requirements for output levels and tone control operation for amplified devices.

6.1.2 Method of Measurement

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test.
2. Set the DUT volume control to the maximum setting.
3. If the DUT has an adjustable tone control feature, a tone control setting that meets the frequency response requirements in section 5.3.1 shall be used.
4. Apply the real speech test signal at a level of -20 dBm0 at the RETP and measure the acoustic output at the Drum Reference Point (DRP) over one complete sequence of the test signal.
5. Translate the measurement made at the DRP to the Free Field (FF) using the translation data in Annex B.
6. Over the applicable frequency band, determine the ASL in dBSPL for the resulting sound pressure level in accordance with Method B of ITU-T Recommendation P.56:
 - a. Narrowband 100 Hz through 4000 Hz.
 - b. Wideband 100 Hz through 7720 Hz.
7. Calculate the Conversational Gain by subtracting 70 dB from the measured dBSPL.
[Conversational Gain = (Measured dBSPL Level – 70 dBSPL) dB]
8. Measure the output distortion per clause 5.2. If a distortion failure occurs at the maximum volume control setting, reduce the volume control setting and repeat the measurement to determine if a setting can be found for which the conversational gain requirement is met without a distortion failure.
9. Repeat steps 2-8 with a mounting force of 2N.

6.1.3 Test Result

Refer to Part Nine test result.

Remark: The report only reflects the test data plots of worst mode (for GSM 850, WCDMA Band 5, LTE Band 5, 2.4G WIFI)

6.1.4 Test Conclusion

PASS.

6.2 RECEIVE DISTORTION AND NOISE PERFORMANCE

6.2.1 Requirement

With a mounting force of 8N and 2N, the ratio of the stimulus signal power to the 100 Hz to 8000 Hz total A-weighted distortion and noise power shall be ≥ 20 dB when tested over the range of 1/3 octave band center frequencies:

1. Narrowband transmission mode: Each 1/3 octave band center frequency from 400 Hz to 3150 Hz.
2. Wideband transmission mode: Each 1/3 octave band center frequency from 250 Hz to 5000 Hz.

6.2.2 Method of Measurement

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test with the volume control at the setting determined in 5.1.1.
2. Receive distortion and noise is measured using the PN-SDNR procedure as described in Annex A.
3. To ensure DUT activation, apply the real speech test signal at a level of -20 dBm0 followed immediately by the initial 1/3 octave center frequency PN test signal in Table A.1 based on the narrowband or wideband operating mode. Measure the acoustic output at the DRP over the complete sequence of the PN test signal.
4. Translate the measurement made at the DRP to the FF using the translation data in Annex B.
5. Calculate the acoustic output unweighted total signal power of the stimulus measurement band as described in A.2.
6. Calculate the notched A-weighting distortion and noise components as described in A.3.
7. Calculate the ratio of the signal power to the total A-weighted distortion and noise power using Eq A-1.
8. Repeat for each of the remaining 1/3 octave center frequencies in Table A.1 based on the narrowband or wideband operating mode.
9. Repeat steps 2-8 with a mounting force of 2N.

6.2.3 Test Result

Refer to test Annex A.

Remark: The report only reflects the test data plots of worst mode (for GSM 850, WCDMA Band 5, LTE Band 5, 2.4G WIFI)

6.2.4 Test Conclusion

PASS.

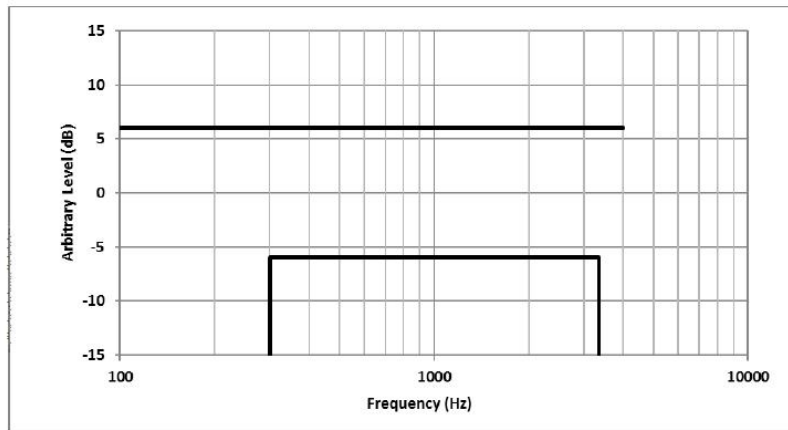
6.3 RECEIVE ACOUSTIC FREQUENCY RESPONSE PERFORMANCE

6.3.1 Requirement

1. Narrowband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits given in Table 1 and shown in Figure below.

Table 1 – Narrowband Receive Frequency Response Limits

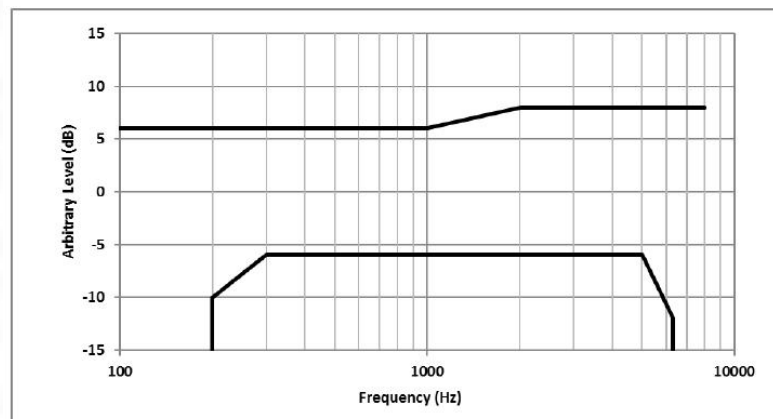
Lower Limit Frequency (Hz)	Lower Limit (dB)	Upper Limit Frequency (Hz)	Upper Limit (dB)
300	-6	100	+6
3400	-6	4000	+6



2. Wideband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits given in Table 2 and shown in Figure below.

Table 2 – Wideband Receive Frequency Response Limits

Lower Limit Frequency (Hz)	Lower Limit (dB)	Upper Limit Frequency (Hz)	Upper Limit (dB)
200	-10	100	+6
300	-6	1000	+6
5000	-6	2000	+8
6300	-12	8000	+8



6.3.2 Method of Measurement

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test with the volume control at the setting determined in 5.1.1.
2. If the DUT has an adjustable tone control feature the initial measurement is to be performed with the default tone control setting.
3. Apply the real speech test signal with a level of -20 dBm0 at the RETP.
4. Capture the frequency spectrum at the DRP of the HATS using real-time analysis with 1/12 octave bands over the frequency range from 100 Hz to 4000 Hz for narrowband measurements, or over the frequency range from 100 Hz to 8000 Hz for wideband measurements, averaged over the entire duration of the test signal.
5. Transform the DRP frequency spectrum measurement to the FF or DF (see Annex B).
6. Divide the 1/12 octave measurement data by the 1/12 octave frequency spectrum of the test signal at the RETP and present the measurement in terms of dB(Pa/V).
7. Apply the applicable frequency response limits to determine compliance.
8. If the default tone control setting does not meet the requirement, repeat the above steps for other tone control settings to determine a tone control setting that meets the requirements.
9. Repeat with a mounting force of 2N.

6.3.3 Test Result

Refer to test Annex A.

Remark: The report only reflects the test data plots of worst mode (for GSM 850, WCDMA Band 5, LTE Band 5, 2.4G WIFI)

6.3.4 Test Conclusion

PASS.

7. Test Equipment List

Description	Manufacturer	Model	Internal number	Cal. Date	Cal. Due
WIDEBAND RADIO COMMUNICATION TESTER	ROHDE&SCHWARZ	CMW500	BTF-EM-023	2025/10/17	2026/10/16
Conditioning Amplifier	Brule&Kjaer	Type -2690--030	BTF-EM- 146	2025/2/11	2026/2/10
Head and Torso Simulator	Brule&Kjaer	Type 4128C	BTF-EM- 148	2025/2/11	2026/2/10
Sound Calibration	Brule&Kjaer	Type 4231	BTF-EM- 149	2025/2/08	2026/2/07
Anechoic Test Chamber	MEC	Type 115	BTF-EM- 150	N/A	N/A

8. Air Interfaces / Bands used for testing

Air-interface	Band	Tested Codec	Tested Rate(kbps)
GSM	850/1900	EFR	/
WCDMA(UMTS)	Band 2/4/5	AMR-NB	4.75/12.2
		AMR-WB	6.6/23.85
		EVS-NB	5.9/24.4
		EVS-WB	5.9/24.4
VoLTE	Band 2/4/5/12/17/25/26/41/66/71	AMR-NB	4.75/12.2
		AMR-WB	6.6/23.85
		EVS-NB	5.9/24.4
		EVS-WB	5.9/24.4
VoWIFI	2.4G/5G	AMR-NB	4.75/12.2
		AMR-WB	6.6/23.85
		EVS-NB	5.9/24.4
		EVS-WB	5.9/24.4

Note: We only select one codec type for the test, narrowband and wideband.

9. Test Result

9.1 Receive volume control, distortion and noise performance

Plot No.	Mode	Channel/Freq.	BW	Codec B itrate	Volume Level	Codec T ype	Codec B andwidth	Mountin g Force (N)	Freque ncy(H Z)	Min PN-SDNR(d B)	PN-SDN R Limb (dB)	Speech Level (dBSPL)	Convers ational Gain	FCC CG Limit (d B)	Verdi ct
1	GSM850	128/824.2MHz	/	/	Max	EFR	NB	8N	3150	20.72	20.00	90.30	20.30	18.00	Pass
			/	/	Max	EFR	NB	2N	2500	20.33	20.00	82.62	12.62	6.00	
2	PCS1900	512/1850.2MHz	/	/	Max	EFR	NB	8N	2500	21.21	20.00	90.64	20.64	18.00	Pass
			/	/	Max	EFR	NB	2N	3150	20.82	20.00	82.98	12.98	6.00	
3	WCDMA Band II	9262/1852.4MHz	/	12.20	Max	AMR	NB	8N	2500	21.65	20.00	93.10	23.10	18.00	Pass
			/	12.20	Max	AMR	NB	2N	3150	21.24	20.00	90.32	20.32	6.00	
			/	23.85	Max	AMR	WB	8N	250	21.03	20.00	92.36	22.36	18.00	
			/	23.85	Max	AMR	WB	2N	5000	20.85	20.00	88.56	18.56	6.00	
4	WCDMA Band IV	1512/1752.4MHz	/	12.20	Max	AMR	NB	8N	2500	22.32	20.00	91.74	21.74	18.00	Pass
			/	12.20	Max	AMR	NB	2N	3150	22.11	20.00	85.42	15.42	6.00	
			/	23.85	Max	AMR	WB	8N	5000	21.64	20.00	91.20	21.20	18.00	
			/	23.85	Max	AMR	WB	2N	5000	21.19	20.00	84.60	14.60	6.00	
5	WCDMA Band V	4233/846.6MHz	/	12.20	Max	AMR	NB	8N	2000	20.56	20.00	90.94	20.94	18.00	Pass
			/	12.20	Max	AMR	NB	2N	3150	20.71	20.00	84.12	14.12	6.00	
			/	23.85	Max	AMR	WB	8N	2000	20.36	20.00	90.72	20.72	18.00	
			/	23.85	Max	AMR	WB	2N	2000	20.46	20.00	83.57	13.57	6.00	
6	LTE FDD Band 2	18700/1860.0MHz	20MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	23.12	20.00	91.48	21.48	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	22.84	20.00	86.23	16.23	6.00	
				23.85	Max	AMR	WB	8N	5000	22.90	20.00	91.09	21.09	18.00	
				23.85	Max	AMR	WB	2N	1250	22.64	20.00	85.40	15.40	6.00	
7	LTE FDD Band 4	20050/1720.0MHz	20MHz_QPSK_1_00	12.20	Max	AMR	NB	8N	3150	21.94	20.00	90.76	20.76	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.55	20.00	82.65	12.65	6.00	
				23.85	Max	AMR	WB	8N	2000	21.30	20.00	90.01	20.01	18.00	
				23.85	Max	AMR	WB	2N	2000	20.91	20.00	82.06	12.06	6.00	
8	LTE FDD Band 5	20600/844MHz	10MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	20.61	20.00	90.06	20.06	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	20.34	20.00	82.33	12.33	6.00	
				23.85	Max	AMR	WB	8N	2000	20.11	20.00	89.82	19.82	18.00	
				23.85	Max	AMR	WB	2N	2000	20.21	20.00	81.67	11.67	6.00	
9	LTE FDD Band 12	23060/704.0MHz	10MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	1250	21.75	20.00	90.74	20.74	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.34	20.00	83.34	13.34	6.00	
				23.85	Max	AMR	WB	8N	5000	21.00	20.00	90.31	20.31	18.00	
				23.85	Max	AMR	WB	2N	5000	21.16	20.00	82.46	12.46	6.00	
10	LTE TDD Band 17	23780/709.0MHz	10MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	1250	22.31	20.00	91.13	21.13	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	22.04	20.00	85.16	15.16	6.00	
				23.85	Max	AMR	WB	8N	5000	21.66	20.00	90.76	20.76	18.00	
				23.85	Max	AMR	WB	2N	5000	21.34	20.00	84.21	14.21	6.00	
11	LTE FDD Band 25	26140/1860.0MHz	20MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	21.60	20.00	90.49	20.49	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.33	20.00	82.75	12.75	6.00	
				23.85	Max	AMR	WB	8N	5000	20.87	20.00	90.10	20.10	18.00	
				23.85	Max	AMR	WB	2N	1250	20.46	20.00	82.21	12.21	6.00	
12	LTE FDD Band 26 part 90	26740/819MHz	10MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	21.24	20.00	91.06	21.06	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	20.91	20.00	83.12	13.12	6.00	
				23.85	Max	AMR	WB	8N	5000	20.67	20.00	90.49	20.49	18.00	
				23.85	Max	AMR	WB	2N	5000	20.31	20.00	82.63	12.63	6.00	

Plot No.	Mode	Channel/Freq.	BW	Codec B itrate	Volume Level	Codec T ype	Codec B andwidth	Mountin g Force (N)	Frequen cy(H Z)	Min PN-SDNR(d B)	PN-SDN R Limb (dB)	Speech Level (dB SPL)	Convers ational Gain	FCC CG Limit (d B)	Verdi ct
13	LTE FDD Band 26 part 22	26915/836.5MHz	15MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	21.24	20.00	91.34	21.34	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	20.82	20.00	82.74	12.74	6.00	
				23.85	Max	AMR	WB	8N	5000	21.05	20.00	90.24	20.24	18.00	
				23.85	Max	AMR	WB	2N	5000	20.76	20.00	83.61	13.61	6.00	
14	LTE FDD Band 41	40620/2593MHz	20MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	21.64	20.00	90.31	20.31	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.26	20.00	82.50	12.50	6.00	
				23.85	Max	AMR	WB	8N	5000	20.81	20.00	90.11	20.11	18.00	
				23.85	Max	AMR	WB	2N	5000	20.46	20.00	82.02	12.02	6.00	
15	LTE FDD Band 66	132072/1720MHz	20MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	1250	20.94	20.00	91.04	21.04	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	20.56	20.00	83.62	13.62	6.00	
				23.85	Max	AMR	WB	8N	5000	20.36	20.00	90.39	20.39	18.00	
				23.85	Max	AMR	WB	2N	5000	20.63	20.00	82.42	12.42	6.00	
16	LTE FDD Band 71	133222/673.0MHz	20MHz_QPSK_1_0	12.20	Max	AMR	NB	8N	3150	21.34	20.00	90.78	20.78	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.04	20.00	82.71	12.71	6.00	
				23.85	Max	AMR	WB	8N	5000	20.78	20.00	90.26	20.26	18.00	
				23.85	Max	AMR	WB	2N	5000	20.65	20.00	82.11	12.11	6.00	
17	2.4G WIFI	11/2462MHz	802.11b	12.20	Max	AMR	NB	8N	3150	21.13	20.00	90.46	20.46	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	20.79	20.00	82.94	12.94	6.00	
				23.85	Max	AMR	WB	8N	5000	20.77	20.00	90.10	20.10	18.00	
				23.85	Max	AMR	WB	2N	5000	20.35	20.00	82.42	12.42	6.00	
18	5.2G WIFI	36/5180MHz	802.11n(HT20)	12.20	Max	AMR	NB	8N	3150	21.59	20.00	91.16	21.16	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.35	20.00	84.21	14.21	6.00	
				23.85	Max	AMR	WB	8N	5000	21.16	20.00	90.89	20.89	18.00	
				23.85	Max	AMR	WB	2N	5000	20.75	20.00	83.52	13.52	6.00	
19	5.4G WIFI	64/5320MHz	802.11n(HT20)	12.20	Max	AMR	NB	8N	3150	21.36	20.00	90.67	20.67	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	20.94	20.00	84.29	14.29	6.00	
				23.85	Max	AMR	WB	8N	5000	20.89	20.00	91.30	21.30	18.00	
				23.85	Max	AMR	WB	2N	5000	20.51	20.00	83.68	13.68	6.00	
20	5.6G WIFI	100/5500MHz	802.11n(HT20)	12.20	Max	AMR	NB	8N	3150	22.13	20.00	91.28	21.28	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.75	20.00	83.54	13.54	6.00	
				23.85	Max	AMR	WB	8N	5000	21.64	20.00	90.91	20.91	18.00	
				23.85	Max	AMR	WB	2N	5000	21.32	20.00	83.08	13.08	6.00	
21	5.8G WIFI	165/5825MHz	802.11a	12.20	Max	AMR	NB	8N	3150	22.07	20.00	91.30	21.30	18.00	Pass
				12.20	Max	AMR	NB	2N	3150	21.69	20.00	84.12	14.12	6.00	
				23.85	Max	AMR	WB	8N	5000	21.50	20.00	90.84	20.84	18.00	
				23.85	Max	AMR	WB	2N	5000	21.26	20.00	83.67	13.67	6.00	

Note:

1. With a mounting force of 8N, the DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 18 dB with the output distortion and the frequency response.
2. With a mounting force of 2N, the DUT shall have at least one volume control setting that will produce a conversational gain of ≥ 6 dB with the output distortion and the frequency response.
3. With a mounting force of 8N and 2N, the ratio of the stimulus signal power to the 100 Hz to 8000 Hz total A-weighted distortion and noise power shall be ≥ 20 dB.

9.2 Receive acoustic frequency response performance

Plot No.	Mode	Channel/Freq.	BW	Volume Level	Codec Type	Codec Bandwidth	Mounting Force (N)	RFR
								Test Result
1	GSM850	128/824.2MHz	/	Max	EFR	NB	8N	Pass
				Max	EFR	NB	2N	
2	PCS1900	512/1850.2MHz	/	Max	EFR	NB	8N	Pass
				Max	EFR	NB	2N	
3	WCDMA Band II	9262/1852.4MHz	/	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
4	WCDMA Band IV	1512/1752.4MHz	/	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
5	WCDMA Band V	4233/846.6MHz	/	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
6	LTE FDD Band 2	18700/1860.0MHz	20MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
7	LTE FDD Band 4	20050/1720.0MHz	20MHz_QPSK_1_00	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
8	LTE FDD Band 5	20600/844MHz	10MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
9	LTE FDD Band 12	23060/704.0MHz	10MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
10	LTE TDD Band 17	23780/709.0MHz	10MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
11	LTE FDD Band 25	26140/1860.0MHz	20MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
12	LTE FDD Band 26 part 90	26740/819MHz	10MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
13	LTE FDD Band 26 part 22	26915/836.5MHz	15MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	

Plot No.	Mode	Channel/Freq.	BW	Volume Level	Codec Type	Codec Bandwidth	Mounting Force (N)	RFR
								Test Result
14	LTE FDD Band 41	40620/2593MHz	20MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
15	LTE FDD Band 66	132072/1720MHz	20MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
16	LTE FDD Band 71	133222/673.0MHz	20MHz_QPSK_1_0	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
17	2.4G WIFI	11/2462MHz	802.11b	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
18	5.2G WIFI	36/5180MHz	802.11n(HT20)	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
19	5.4G WIFI	64/5320MHz	802.11n(HT20)	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
20	5.6G WIFI	100/5500MHz	802.11n(HT20)	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	
21	5.8G WIFI	165/5825MHz	802.11a	Max	AMR	NB	8N	Pass
				Max	AMR	NB	2N	
				Max	AMR	WB	8N	
				Max	AMR	WB	2N	

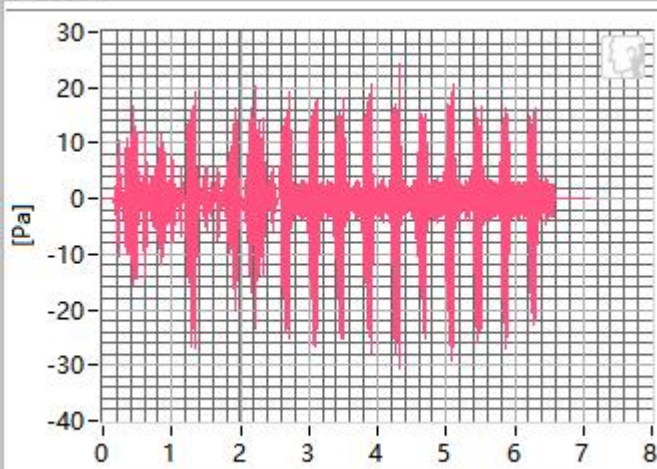
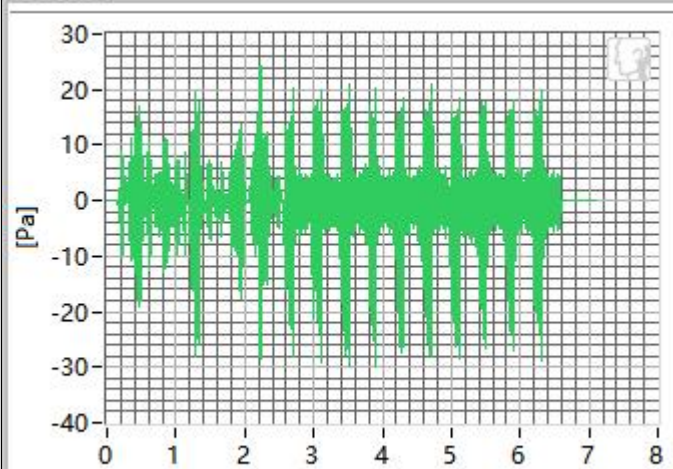
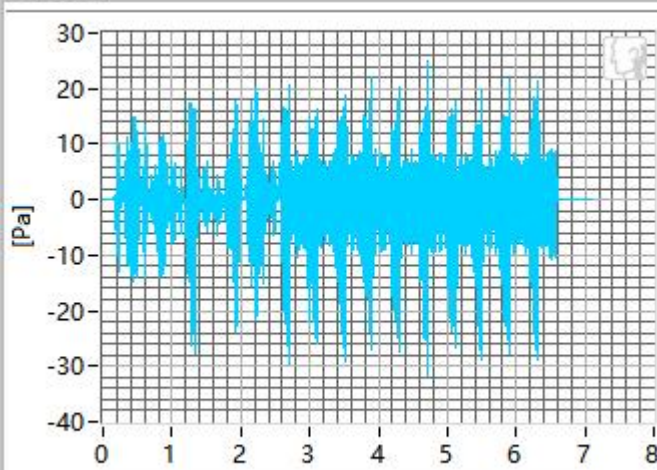
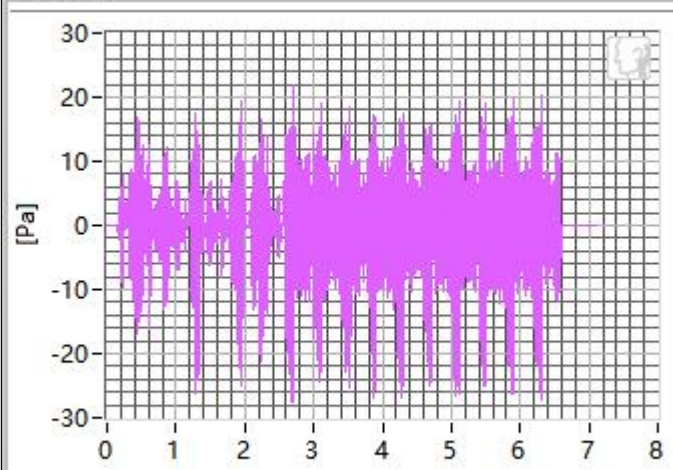
Volume Control Verification Test Results

Date of Testing	Test Location	Air Interface Equipment	Acoustical Calibrator	HATS Sens.(dB)	Ambient Noise(dBA)
25/01/2026	JB HATS R	CMW 500	B&K 4231 & UA1546	97.11	37.11
26/01/2026	JB HATS R	CMW 500	B&K 4231 & UA1546	97.15	35.62
27/01/2026	JB HATS R	CMW 500	B&K 4231 & UA1546	97.13	34.12
29/01/2026	JB HATS R	CMW 500	B&K 4231 & UA1546	97.12	32.66
31/01/2026	JB HATS R	CMW 500	B&K 4231 & UA1546	97.10	33.54
Note: A room with background noise no greater than 40 dBA.					

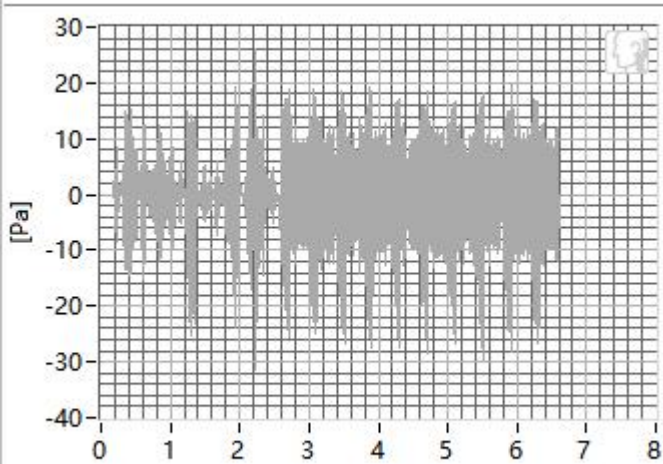
ANNEX A Test Data

1. GSM 850 in channel 128

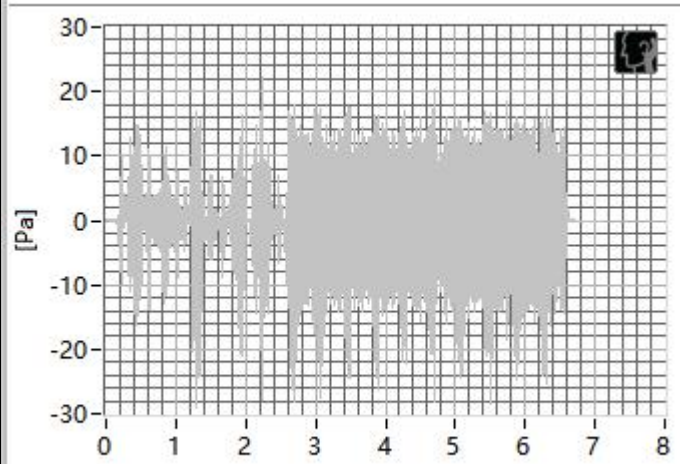
1.1 Receive Distortion and Noise 8N NB

400Hz**500Hz****630Hz****800Hz**

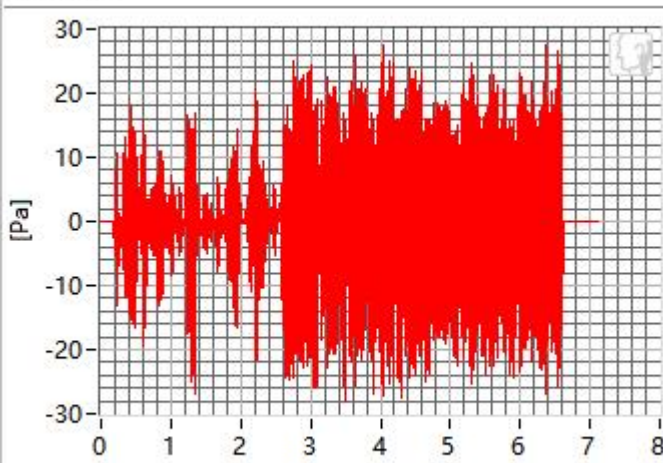
1000Hz



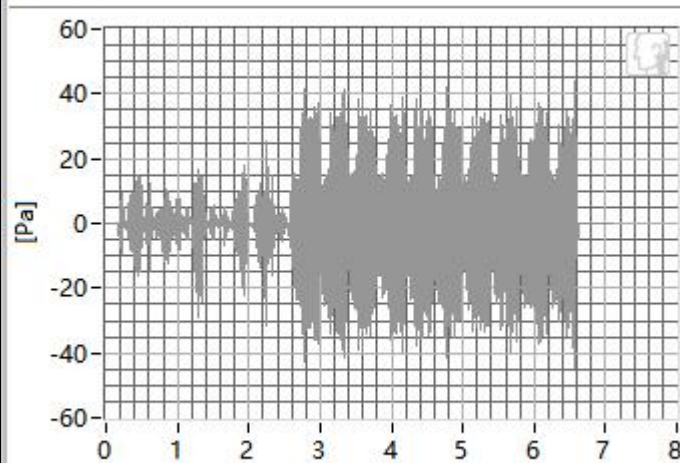
1250Hz



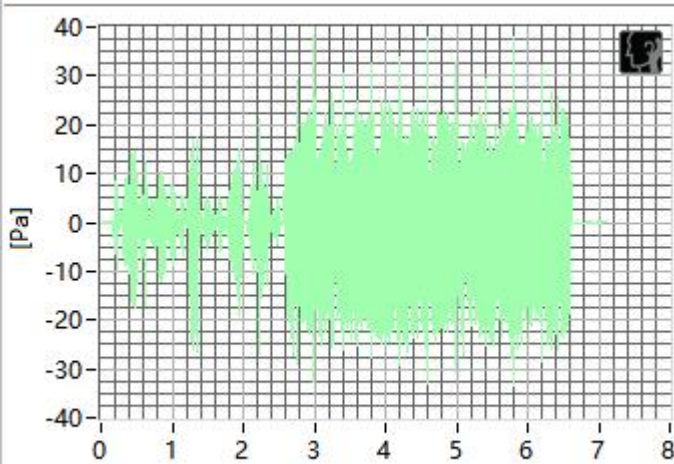
1600Hz



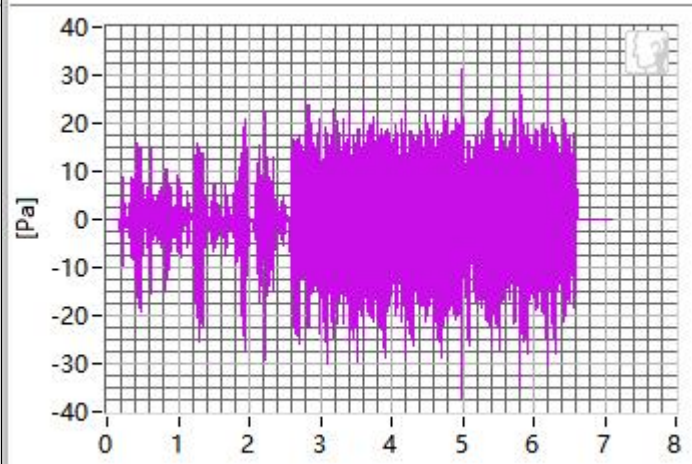
2000Hz



2500Hz



3150Hz

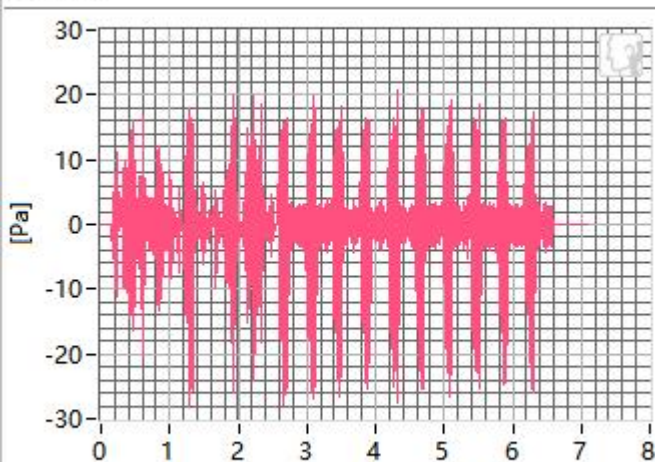


Frequency	SDNR	Frequency	SDNR
400Hz	24.18 dB	1250Hz	24.88 dB
500Hz	25.56 dB	1600Hz	26.97 dB
630Hz	26.08 dB	2000Hz	24.23 dB
800Hz	22.29 dB	2500Hz	21.68 dB
1000Hz	23.59 dB	3150Hz	20.72 dB

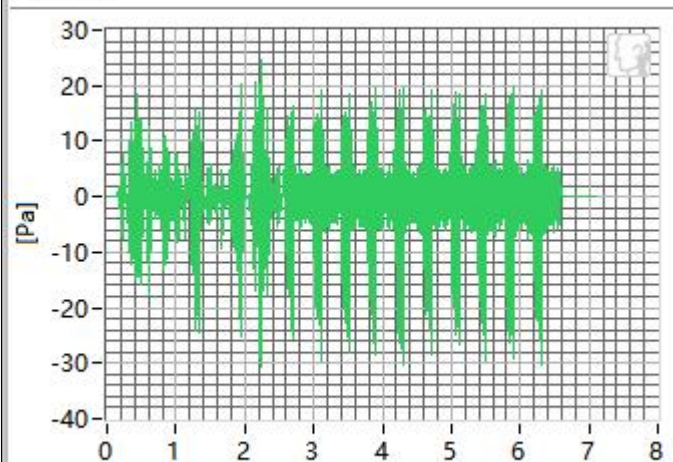
All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.72 dB at 3150Hz.

1.2 Receive Distortion and Noise 2N NB

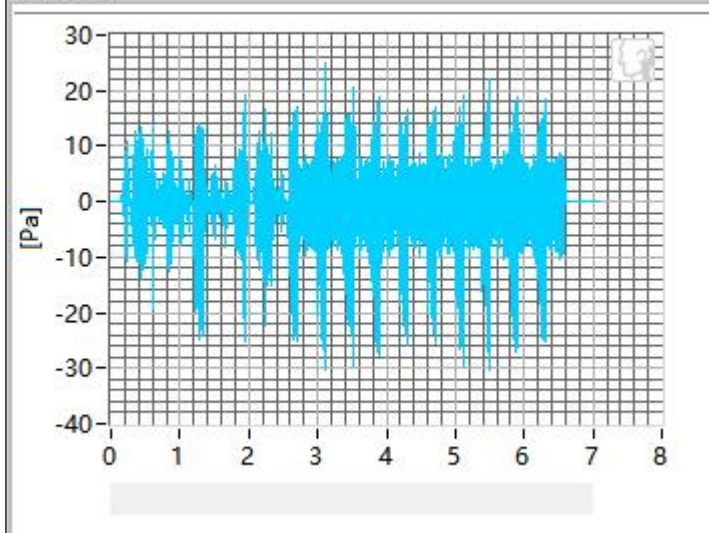
400Hz



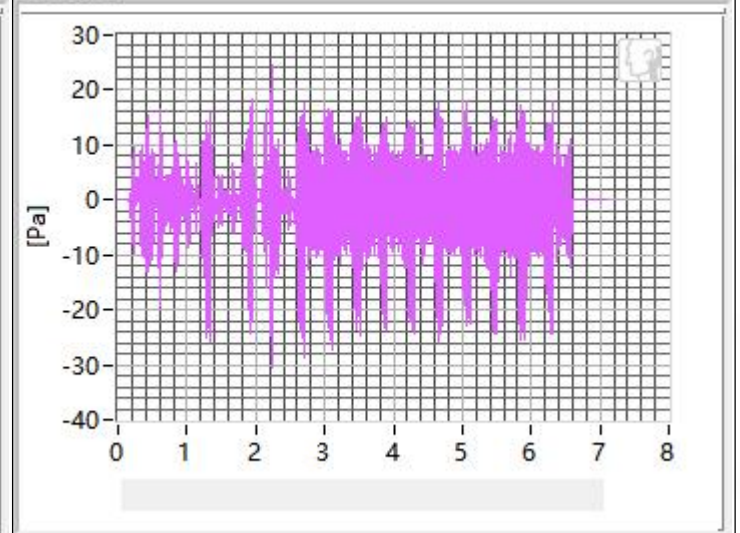
500Hz



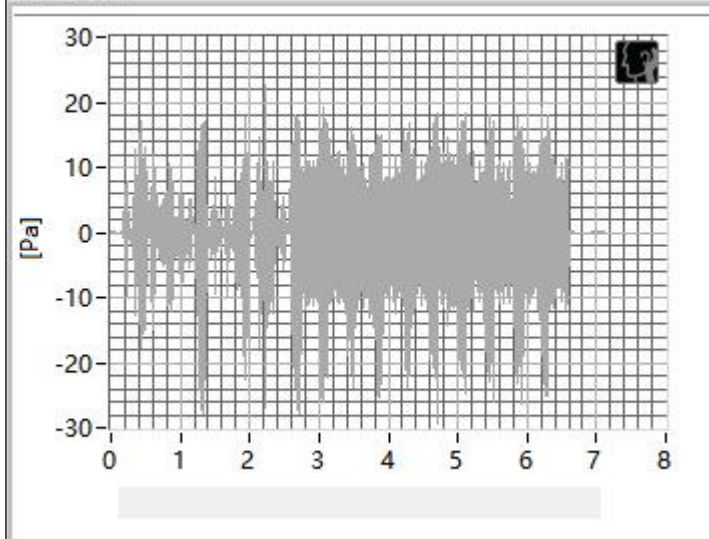
630Hz



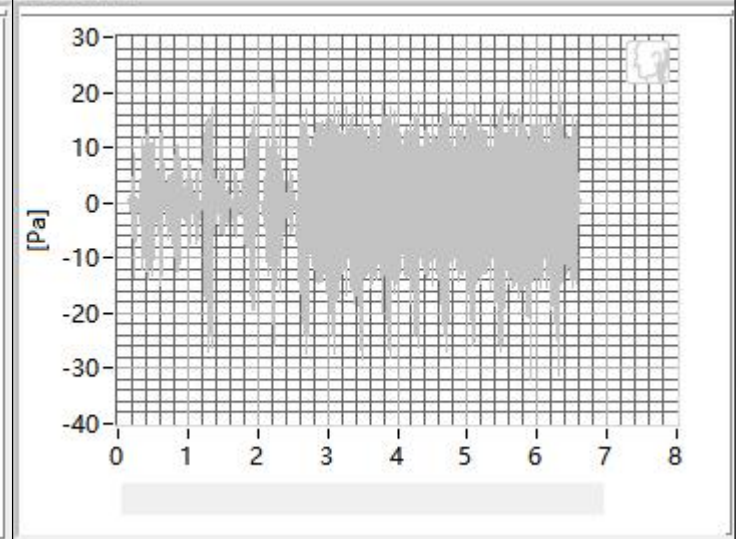
800Hz



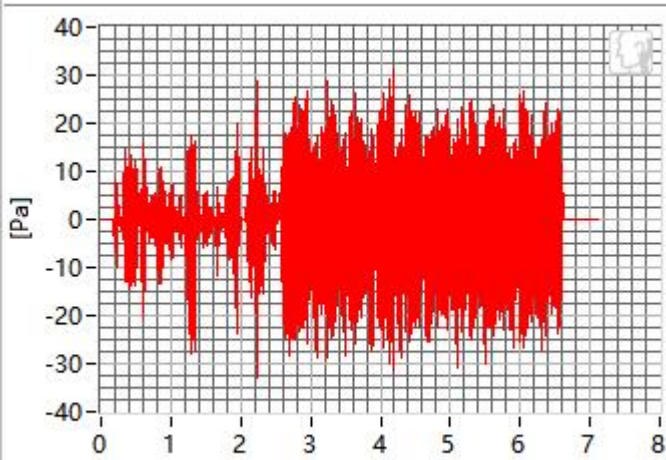
1000Hz



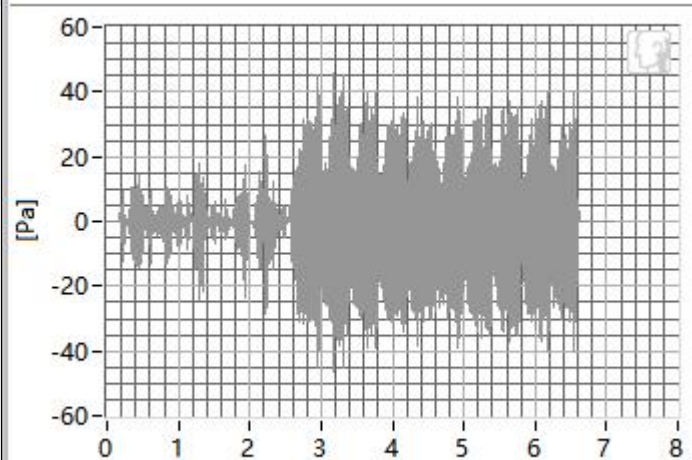
1250Hz



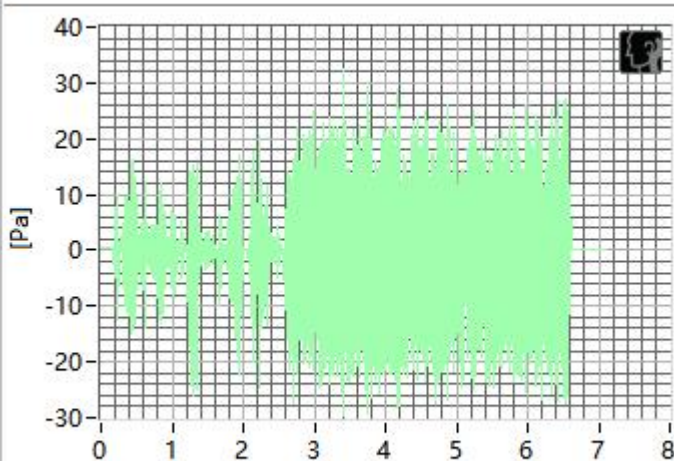
1600Hz



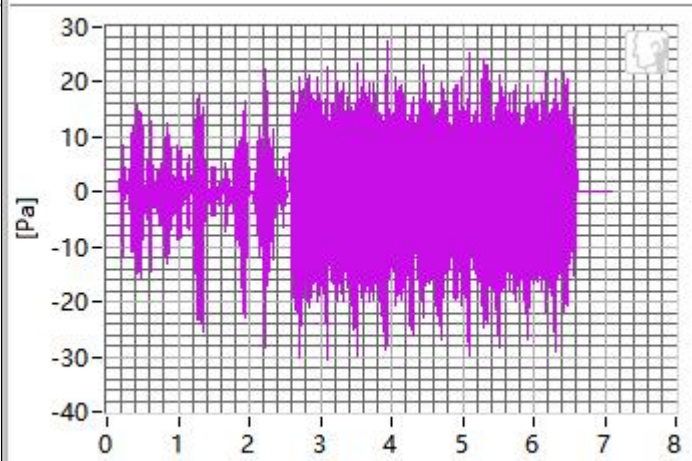
2000Hz



2500Hz



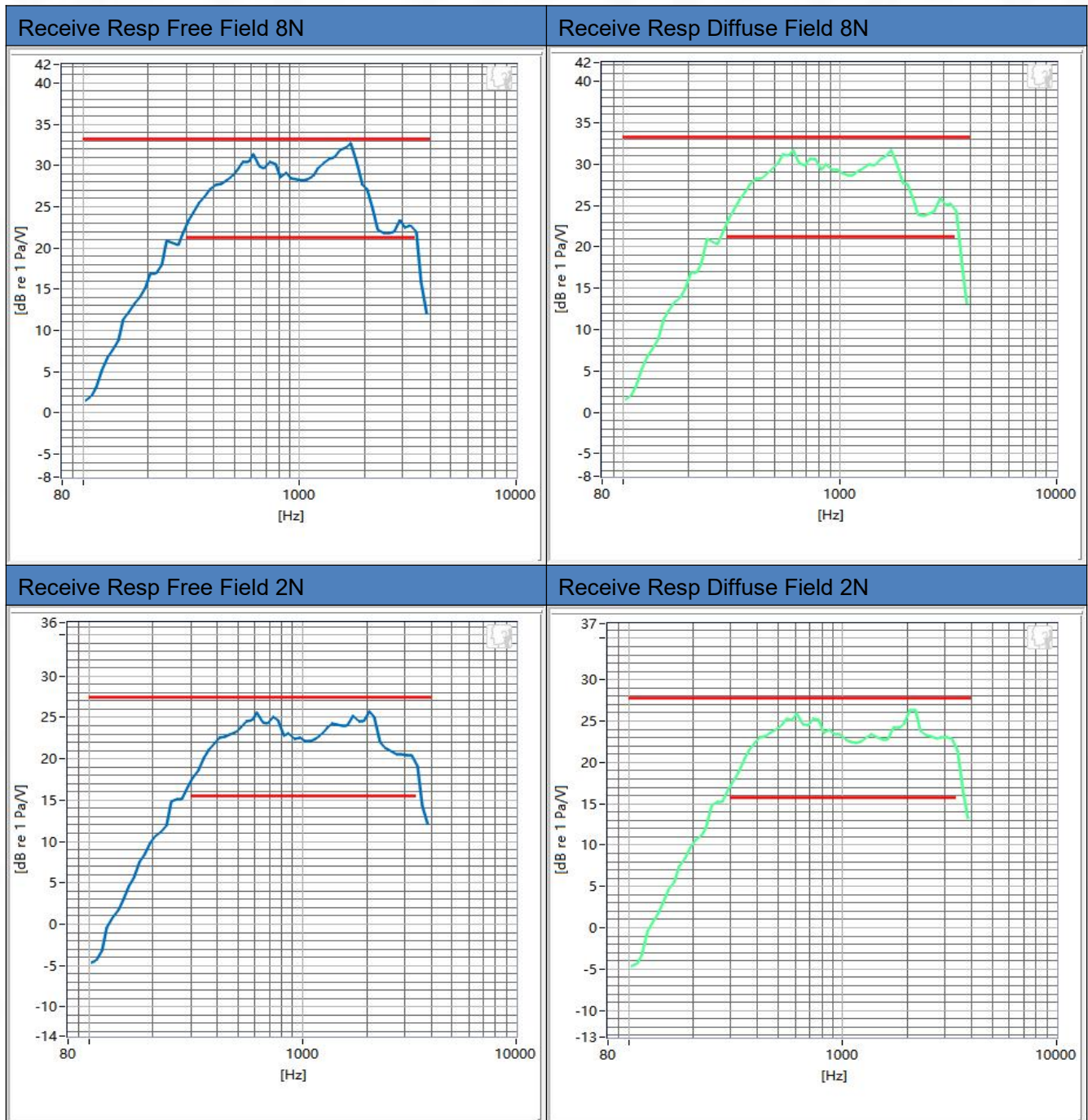
3150Hz



Frequency	SDNR	Frequency	SDNR
400Hz	24.54 dB	1250Hz	25.03 dB
500Hz	25.09 dB	1600Hz	24.08 dB
630Hz	25.22 dB	2000Hz	25.95 dB
800Hz	23.12 dB	2500Hz	20.33 dB
1000Hz	25.02 dB	3150Hz	20.89 dB

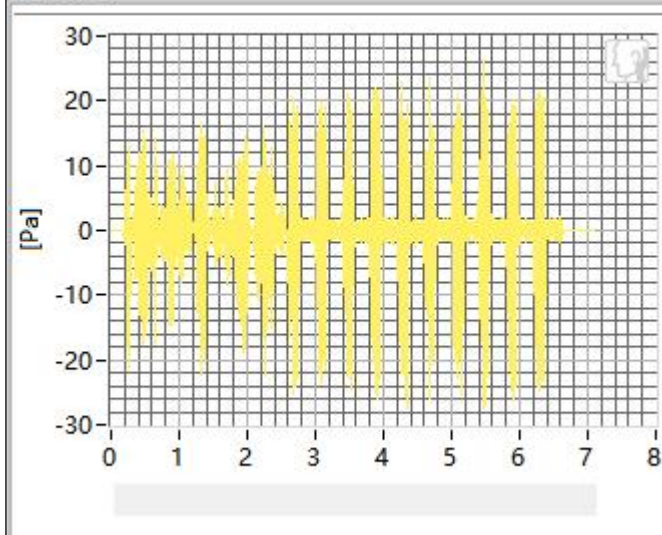
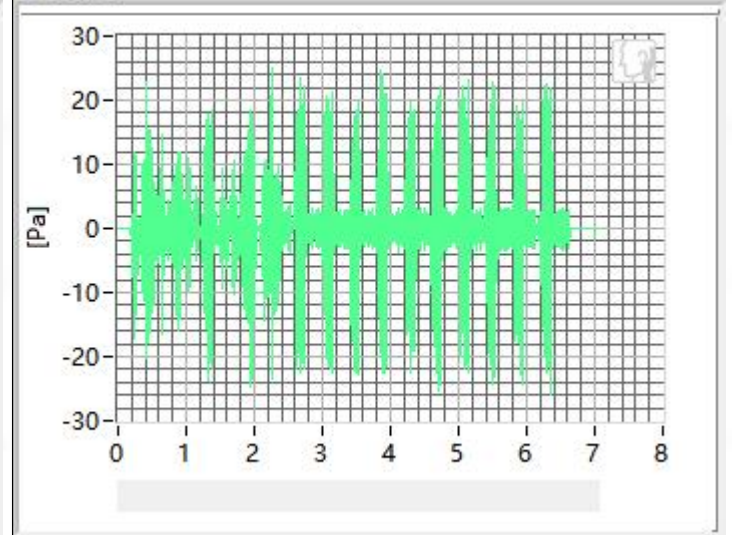
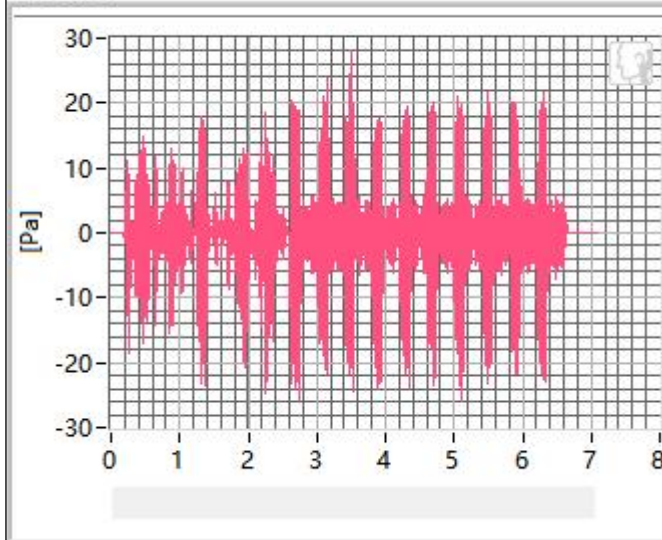
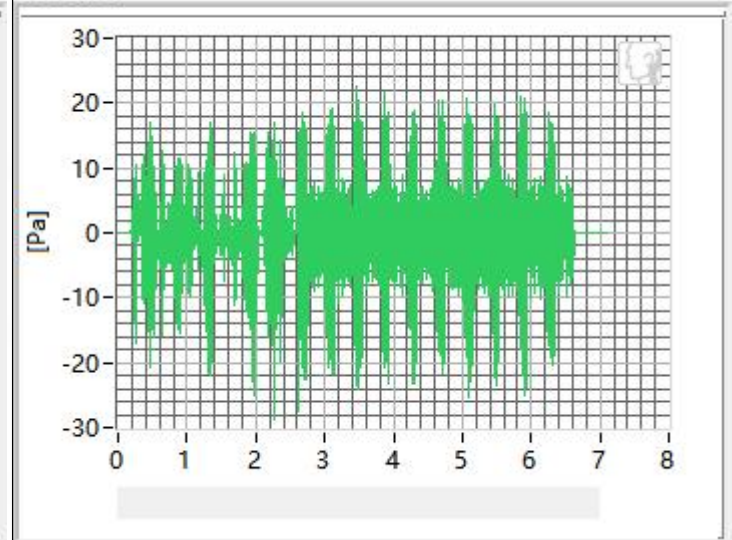
All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.33 dB at 2500Hz.

1.3 Receive Frequency Response

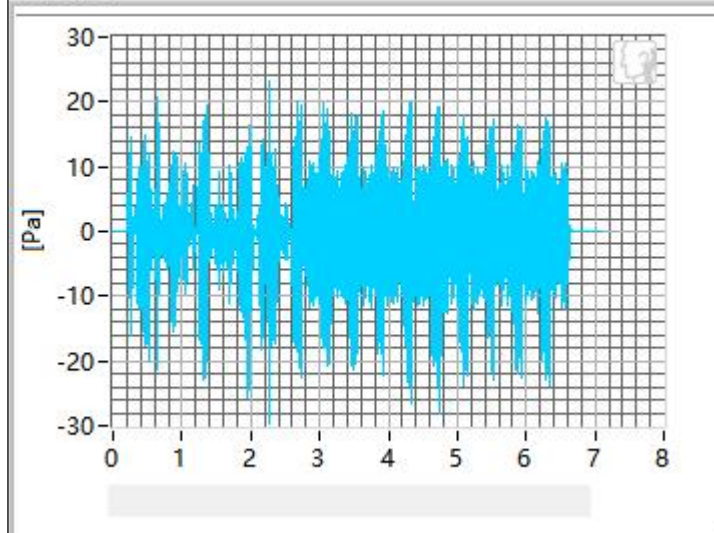


2. WCDMA band 5 in channel 4233

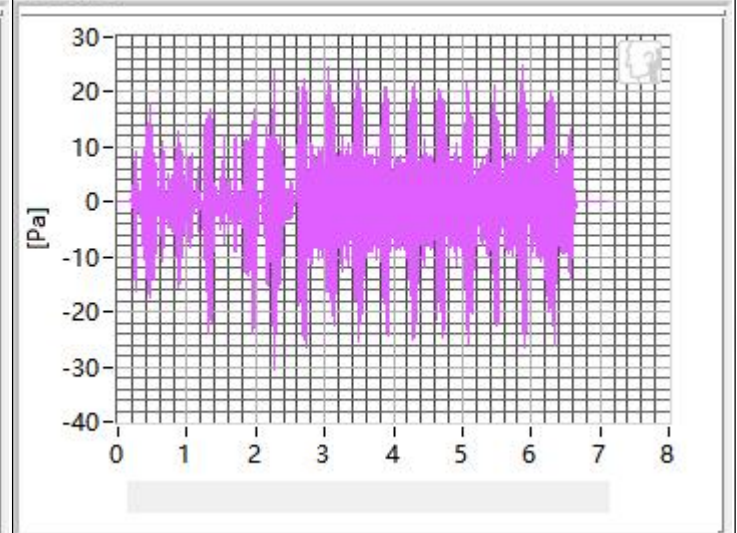
2.1 Receive Distortion and Noise 8N WB

250Hz**315Hz****400Hz****500Hz**

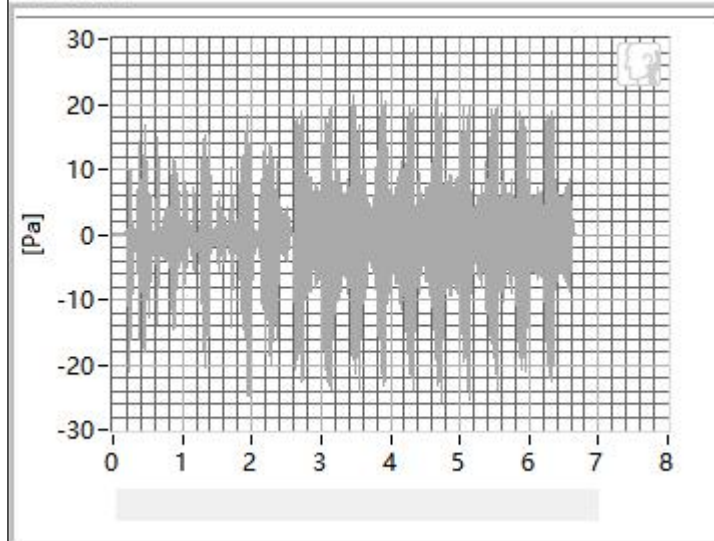
630Hz



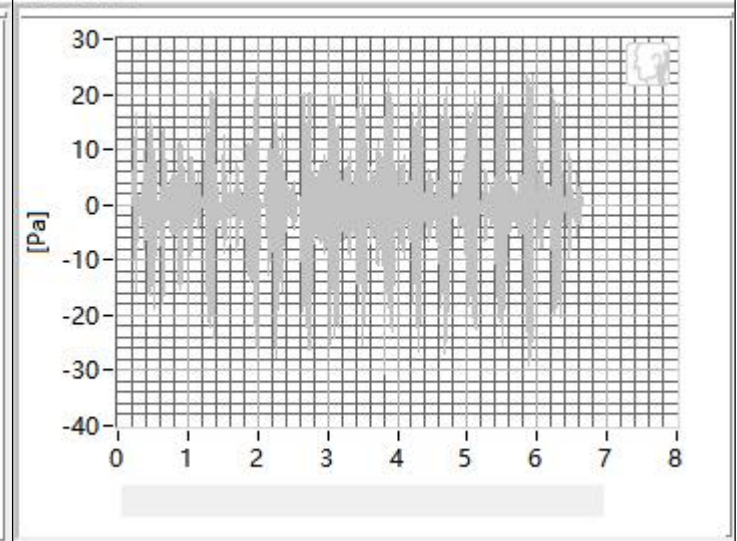
800Hz



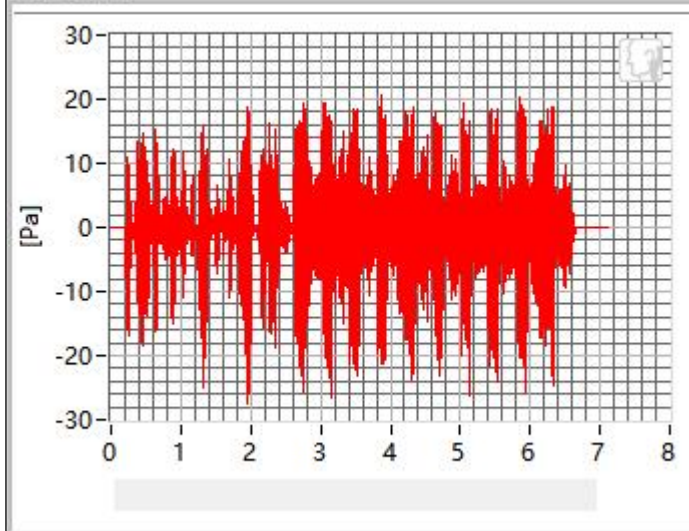
1000Hz



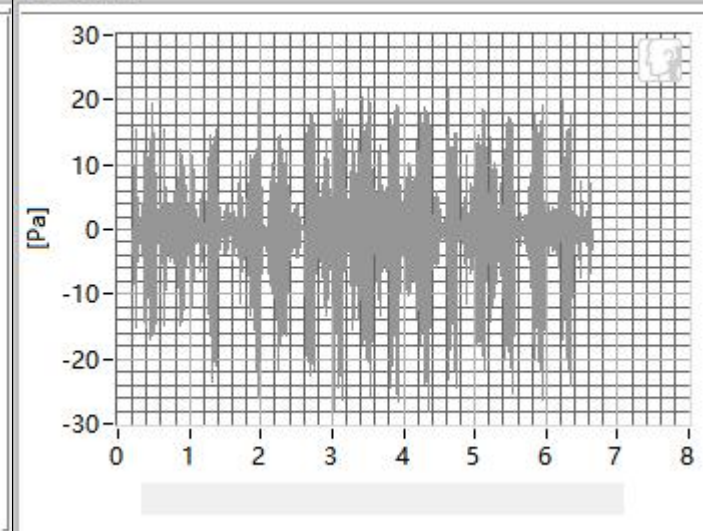
1250Hz



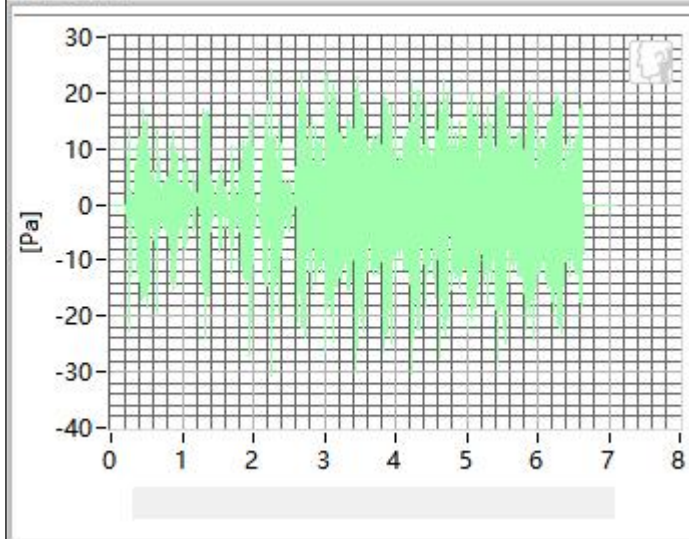
1600Hz



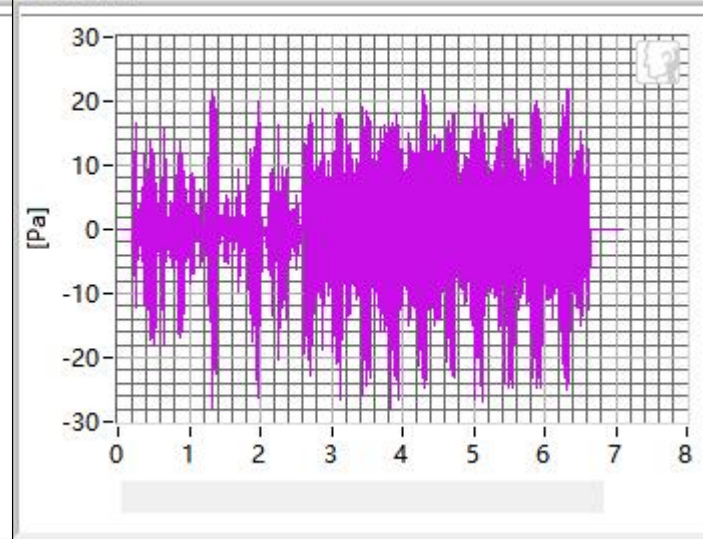
2000Hz



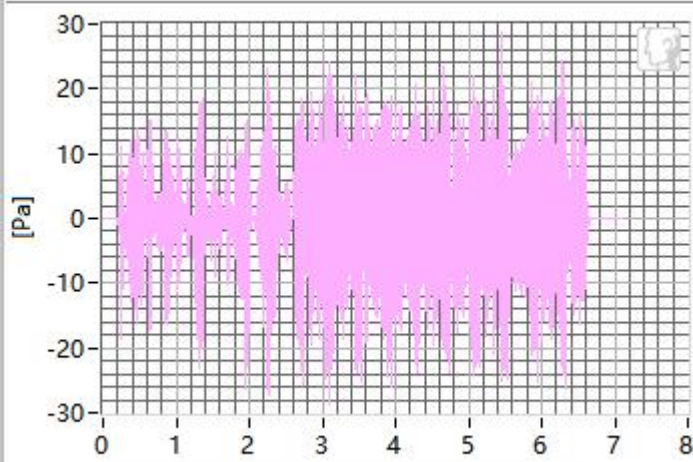
2500Hz



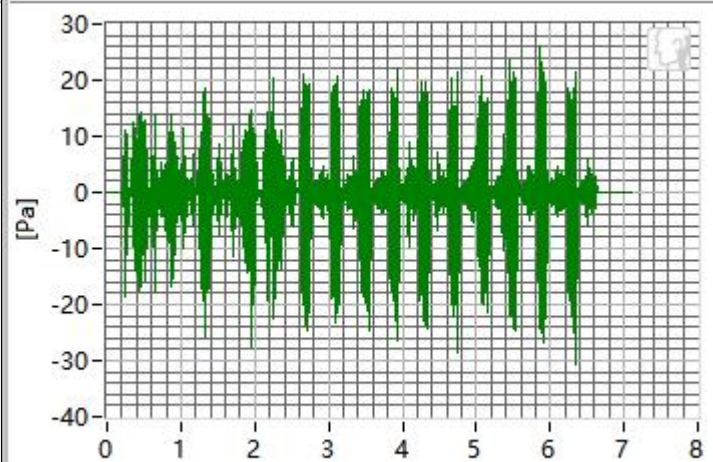
3150Hz



4000Hz



5000Hz

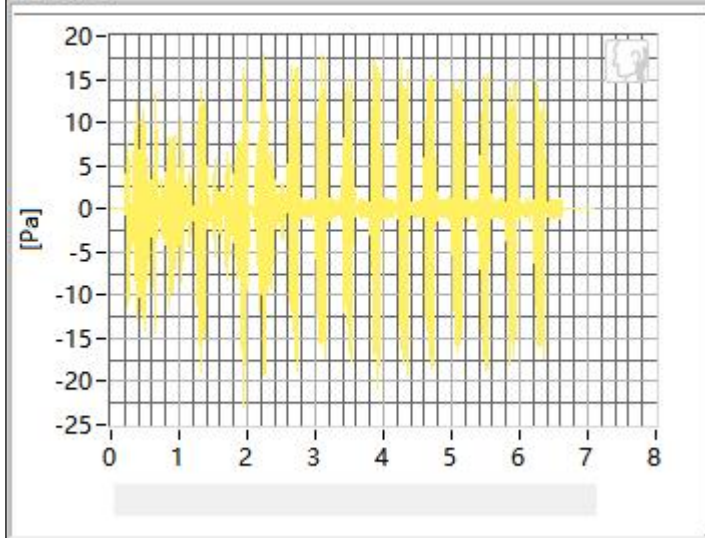


Frequency	SDNR	Frequency	SDNR
250Hz	24.05 dB	1250Hz	26.05 dB
315Hz	23.41 dB	1600Hz	22.31 dB
400Hz	24.57 dB	2000Hz	20.36 dB
500Hz	25.97 dB	2500Hz	21.63 dB
630Hz	28.14 dB	3150Hz	25.86 dB
800Hz	27.27 dB	4000Hz	25.61 dB
1000Hz	24.27 dB	5000Hz	20.71 dB

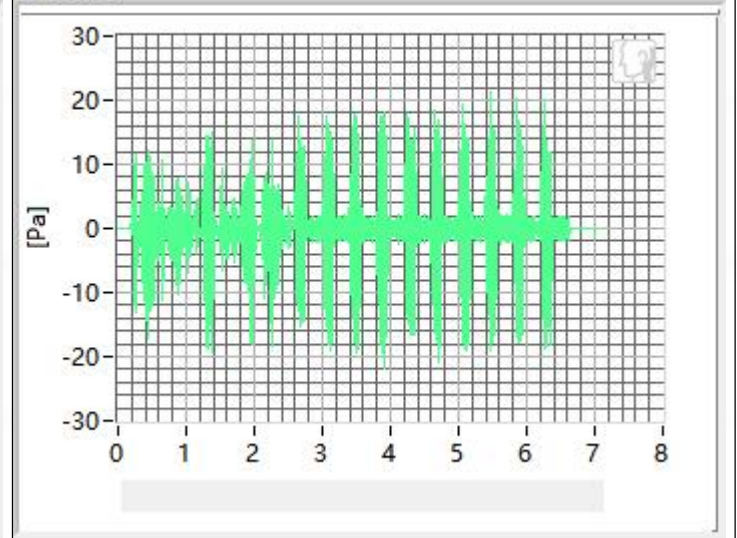
All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.36 dB at 2000Hz.

2.2 Receive Distortion and Noise 2N WB

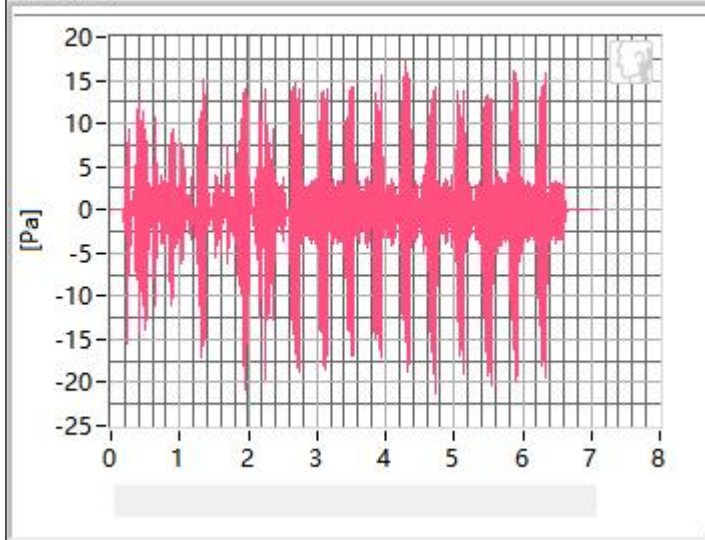
250Hz



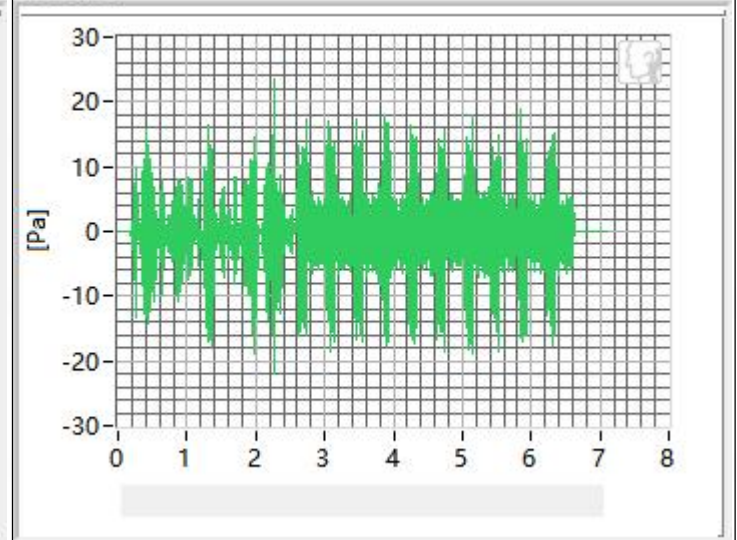
315Hz



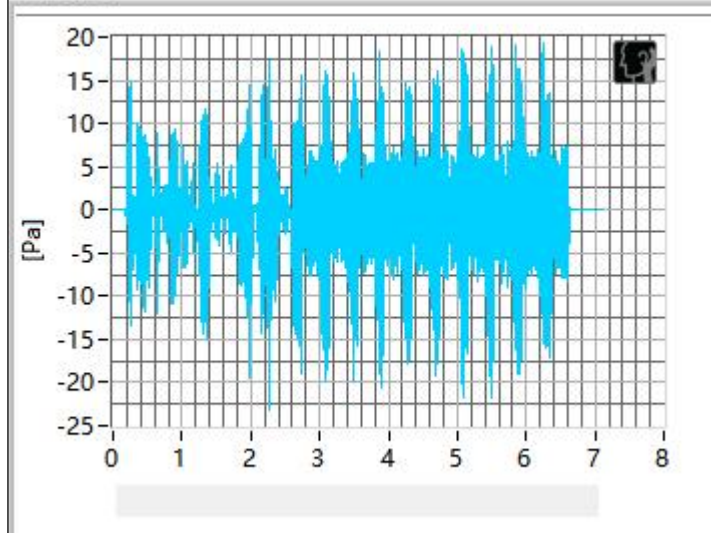
400Hz



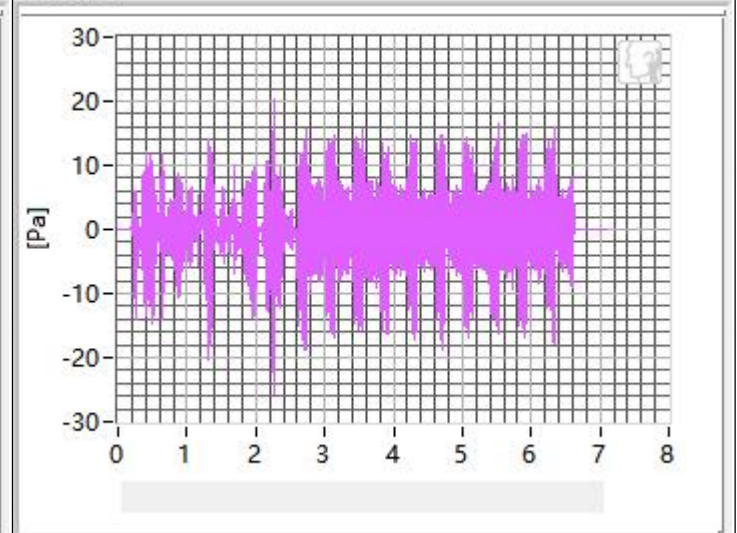
500Hz



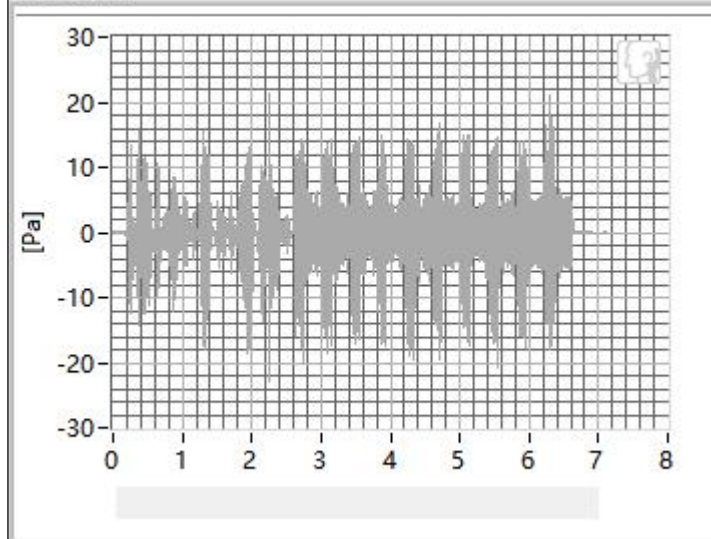
630Hz



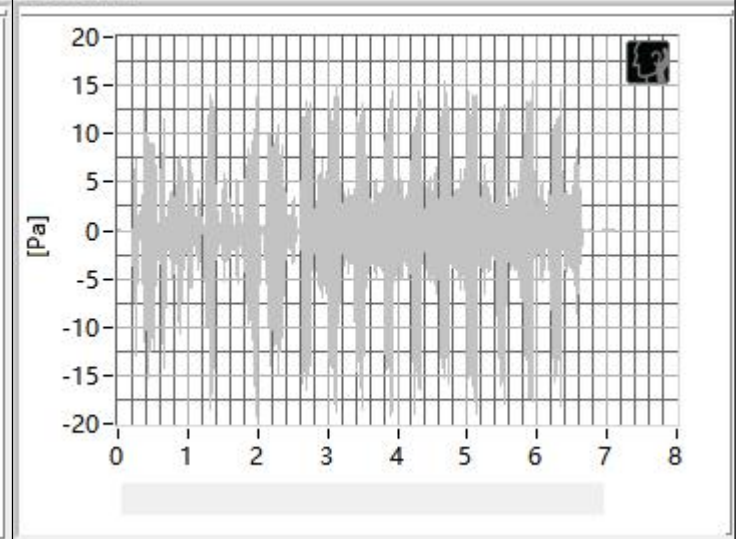
800Hz



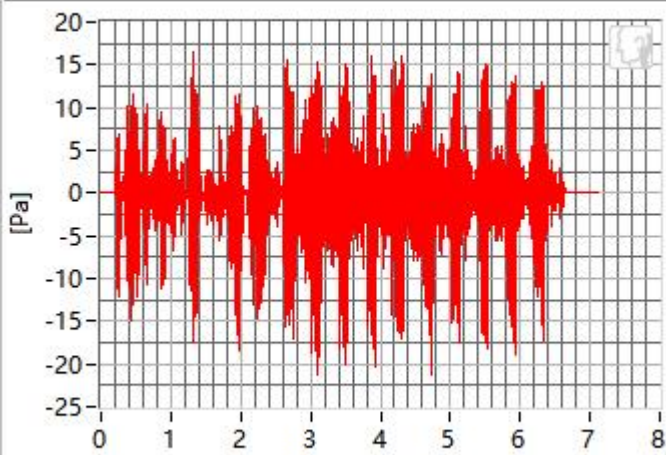
1000Hz



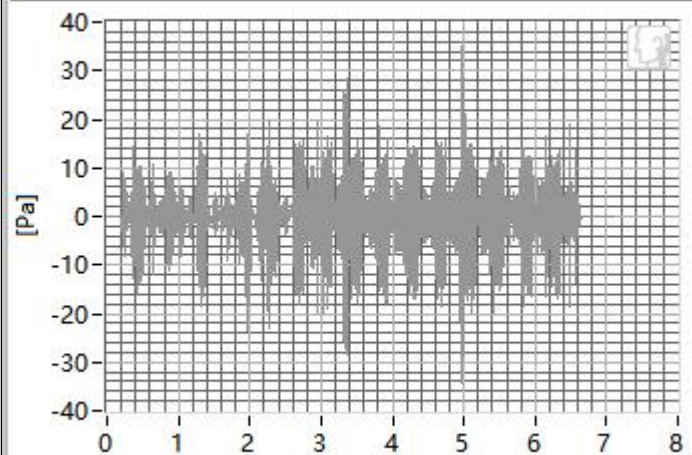
1250Hz



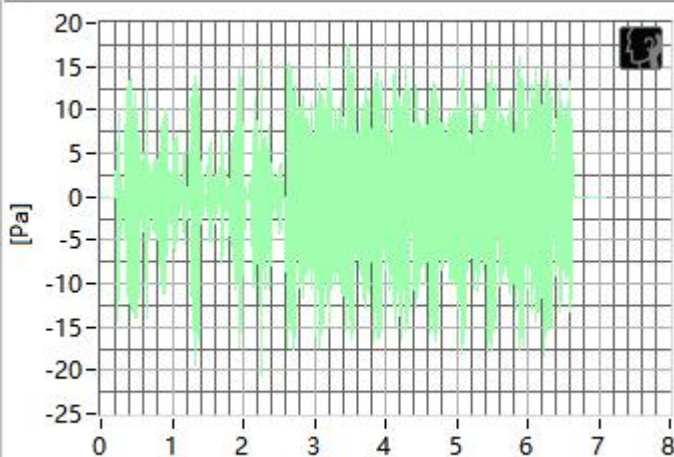
1600Hz



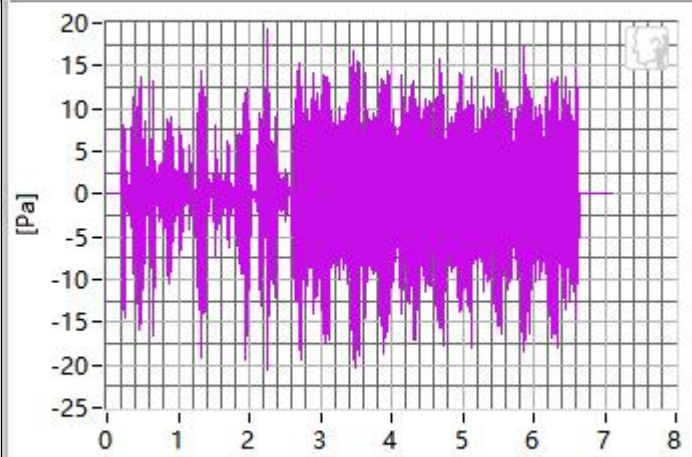
2000Hz



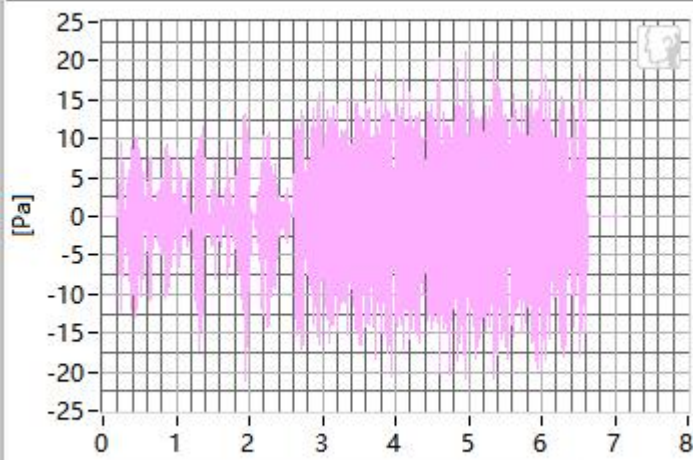
2500Hz



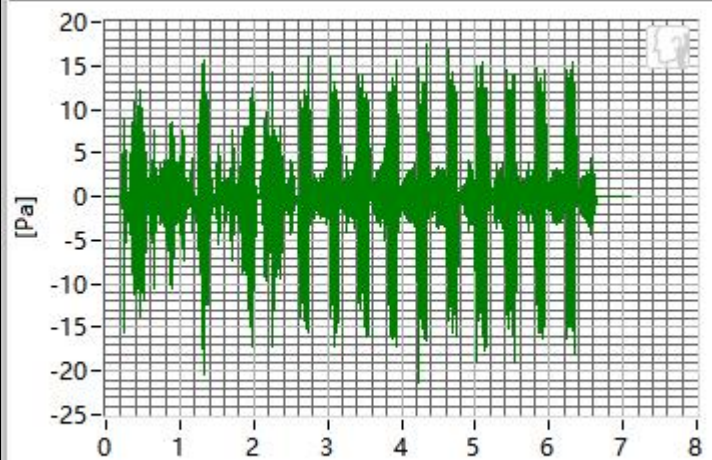
3150Hz



4000Hz



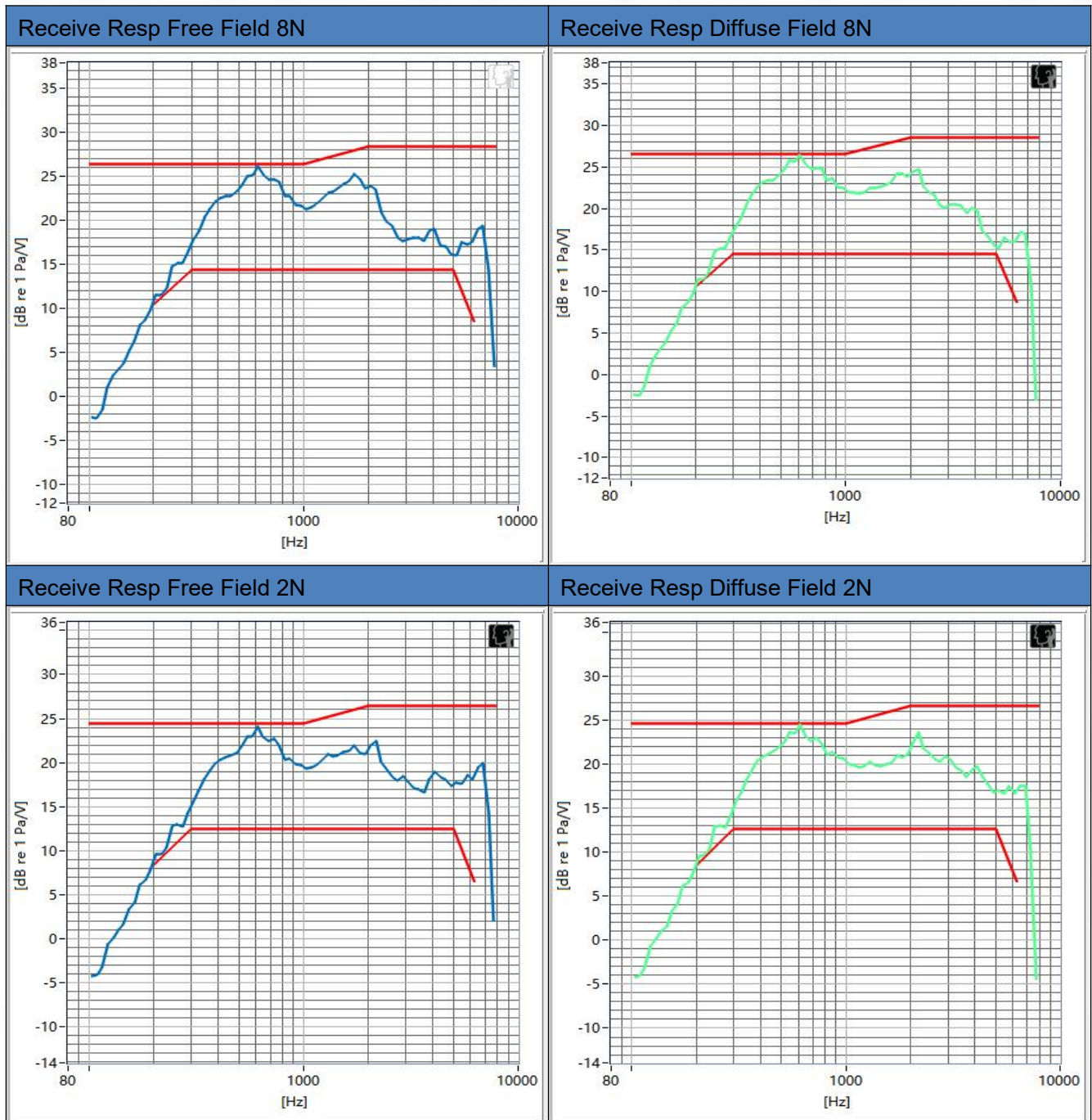
5000Hz



Frequency	SDNR	Frequency	SDNR
250Hz	23.84 dB	1250Hz	20.70 dB
315Hz	23.41 dB	1600Hz	22.17 dB
400Hz	25.93 dB	2000Hz	20.46 dB
500Hz	26.31 dB	2500Hz	23.71 dB
630Hz	27.50 dB	3150Hz	24.82 dB
800Hz	26.70 dB	4000Hz	24.60 dB
1000Hz	25.08 dB	5000Hz	20.69 dB

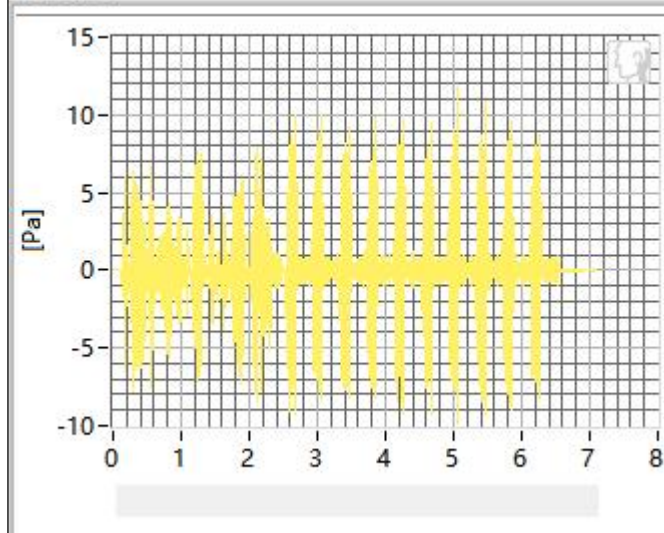
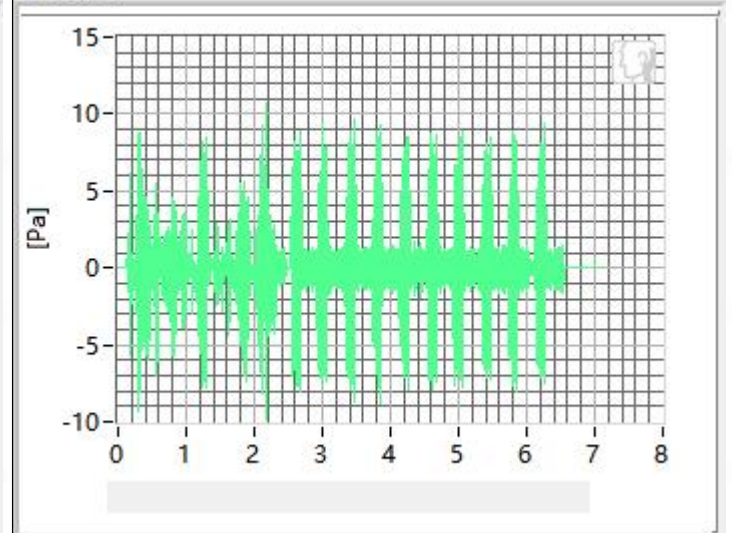
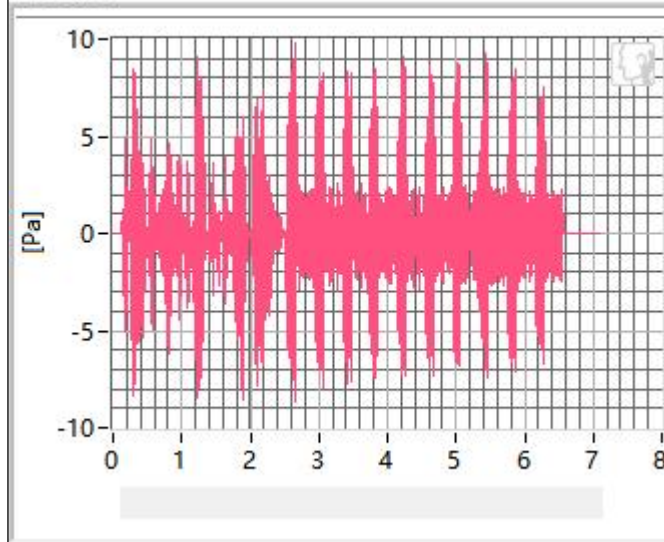
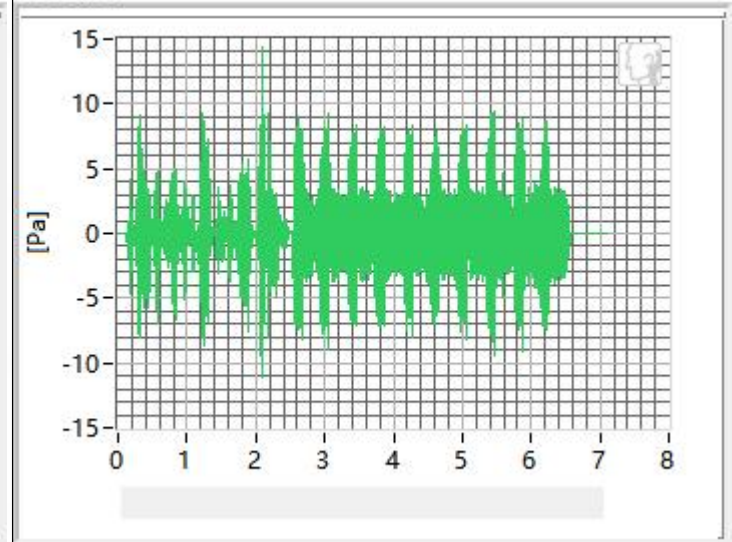
All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.46 dB at 2000Hz.

2.3 Receive Frequency Response

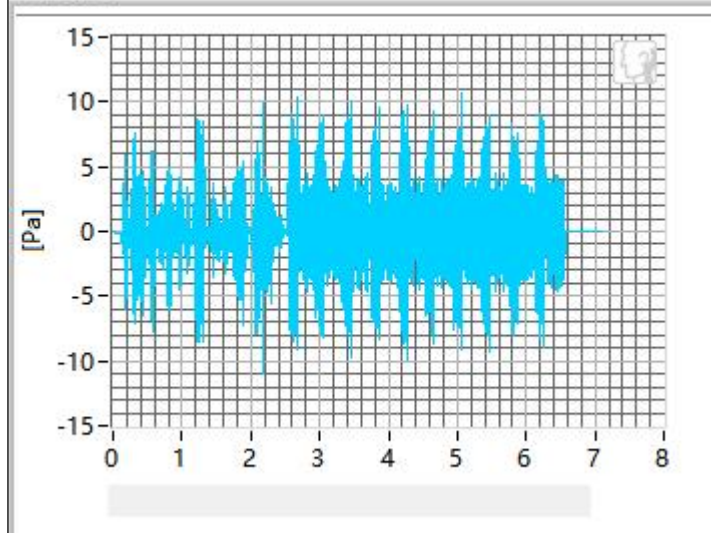


3. LTE band 5 in channel 20600

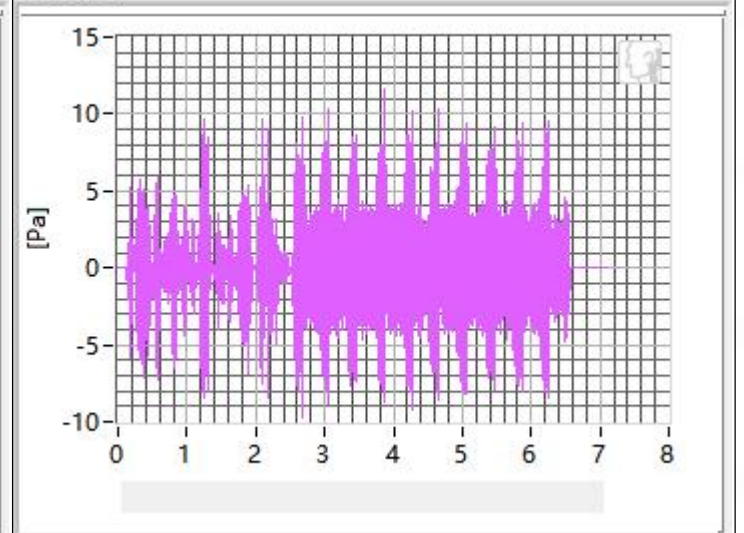
3.1 Receive Distortion and Noise 8N WB

250Hz**315Hz****400Hz****500Hz**

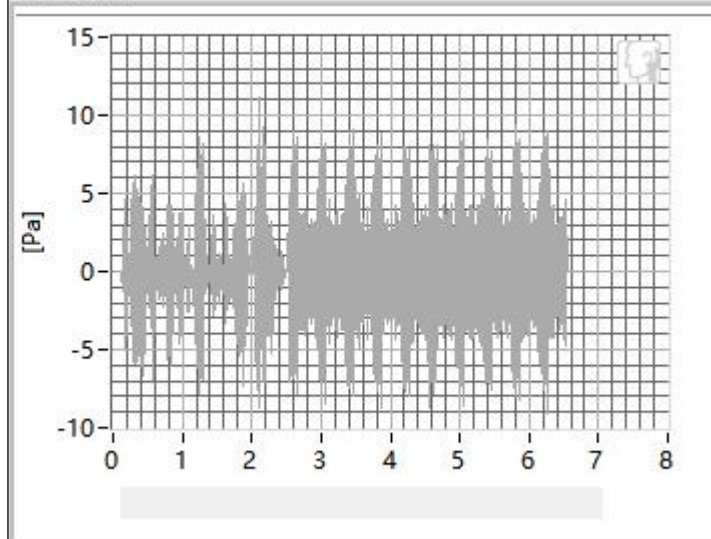
630Hz



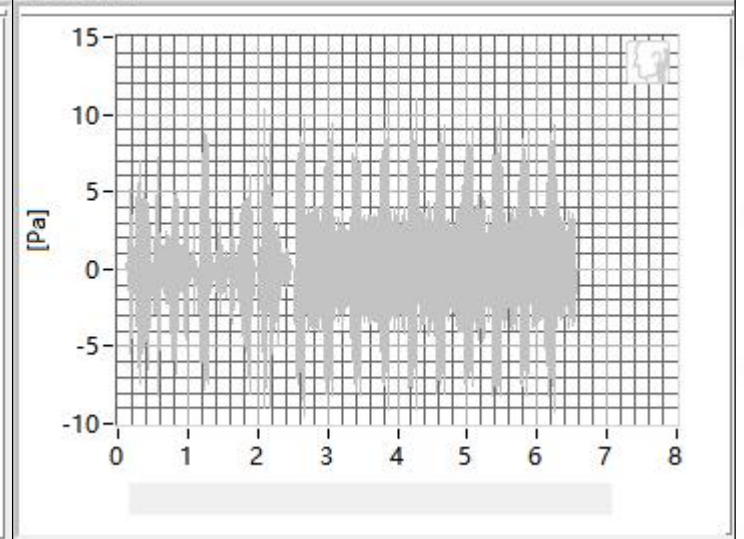
800Hz



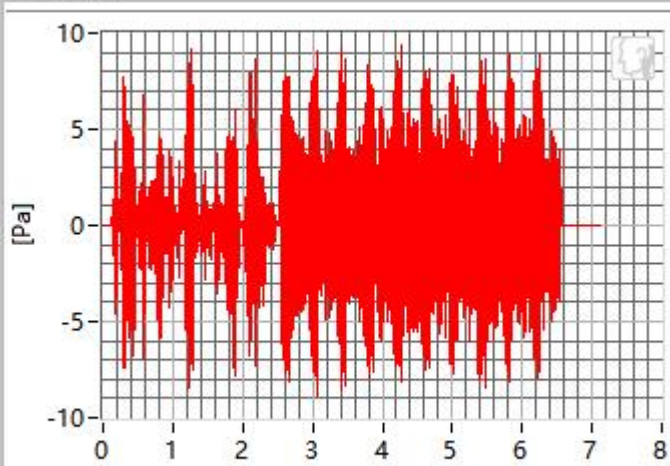
1000Hz



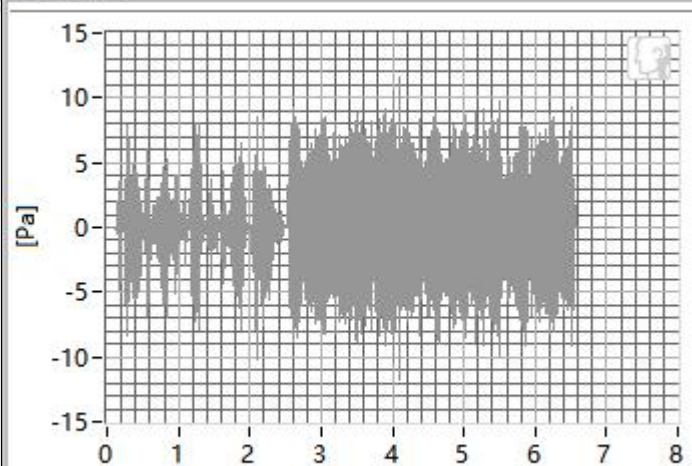
1250Hz



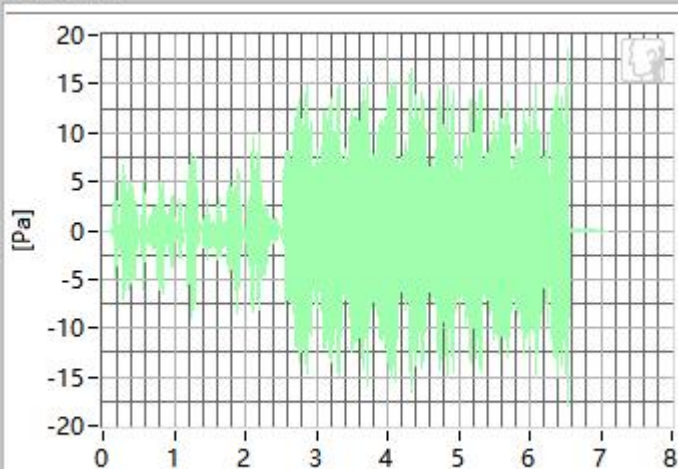
1600Hz



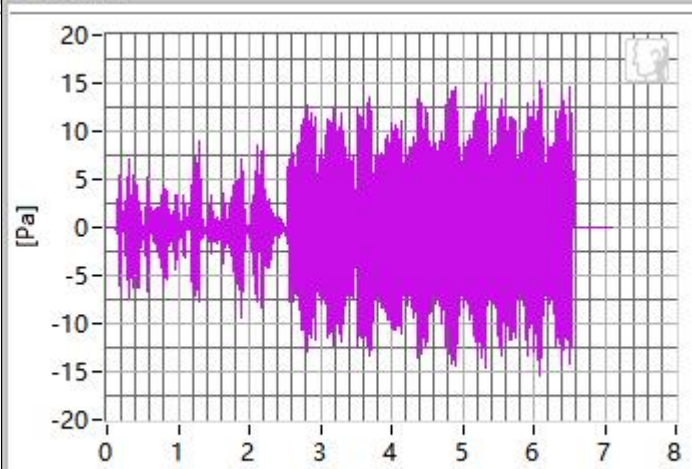
2000Hz



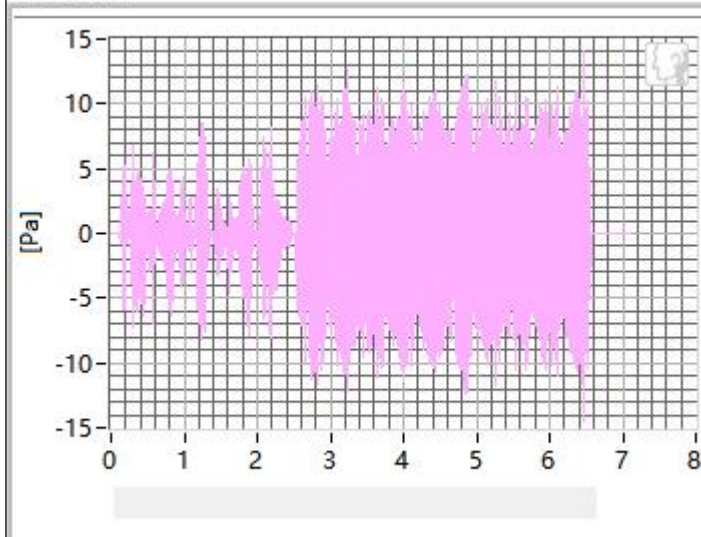
2500Hz



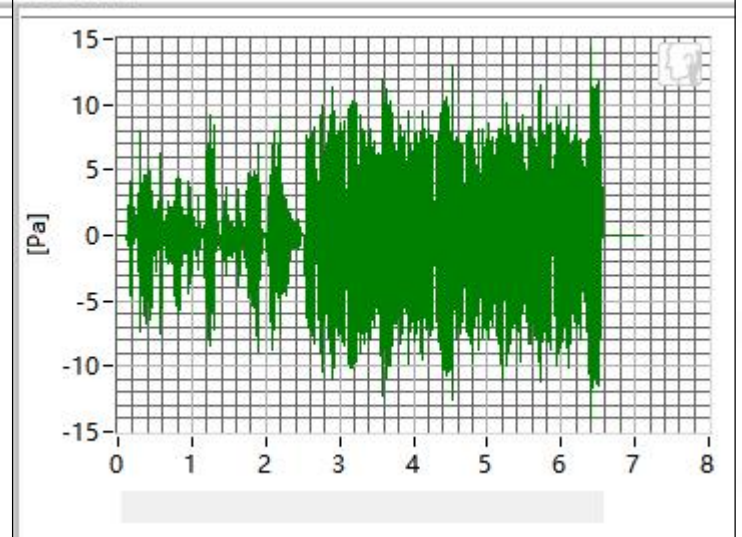
3150Hz



4000Hz



5000Hz

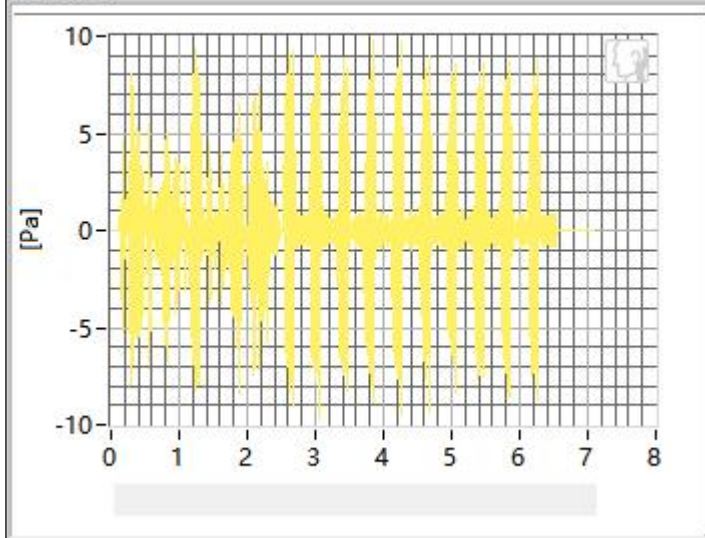


Frequency	SDNR	Frequency	SDNR
250Hz	22.49 dB	1250Hz	20.57 dB
315Hz	23.48 dB	1600Hz	22.71 dB
400Hz	25.39 dB	2000Hz	20.11 dB
500Hz	26.54 dB	2500Hz	24.35 dB
630Hz	28.71 dB	3150Hz	24.94 dB
800Hz	25.30 dB	4000Hz	24.55 dB
1000Hz	23.16 dB	5000Hz	20.17 dB

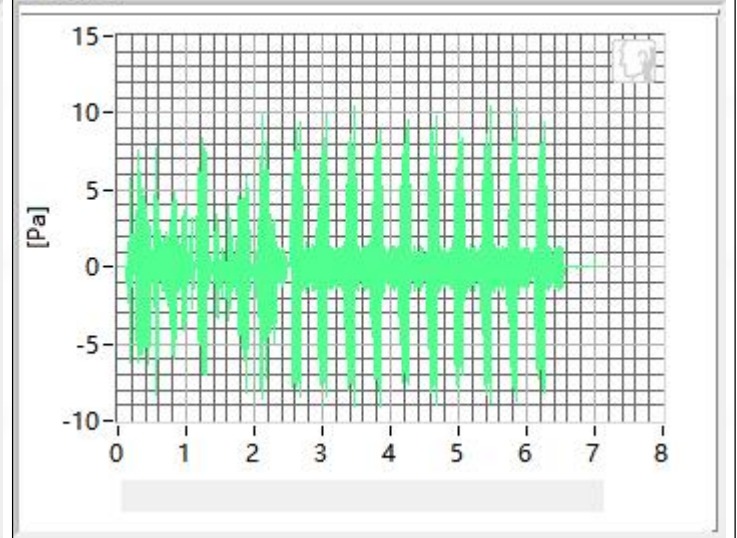
All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.11 dB at 2000 Hz.

3.2 Receive Distortion and Noise 2N WB

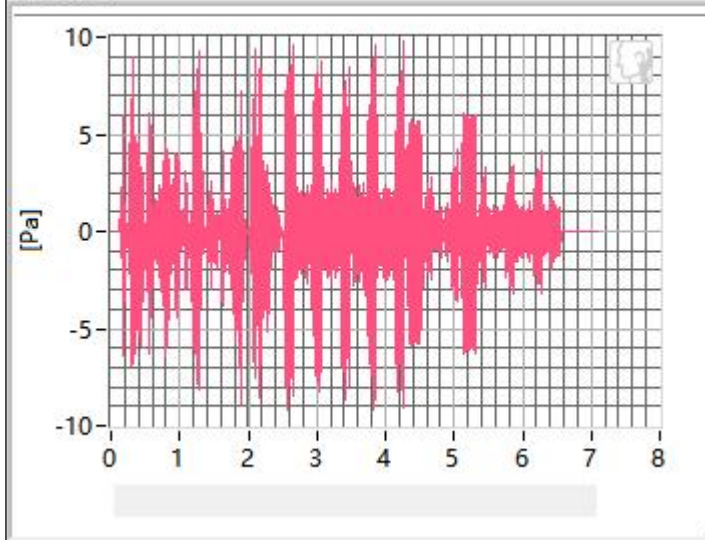
250Hz



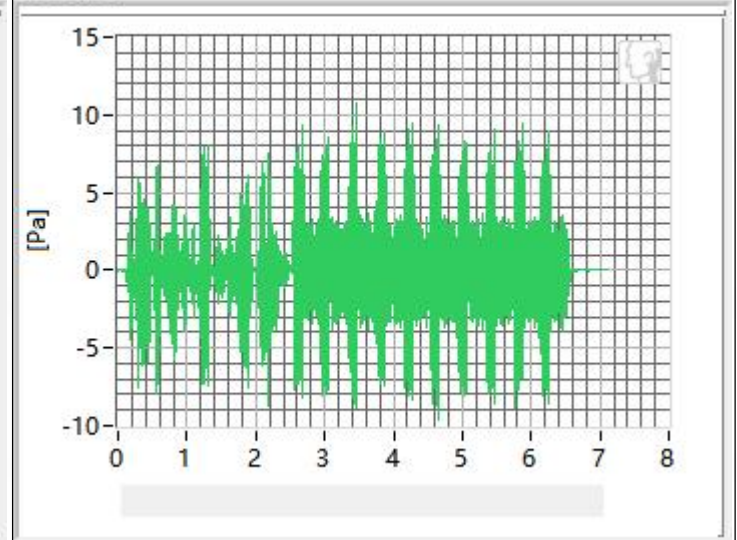
315Hz



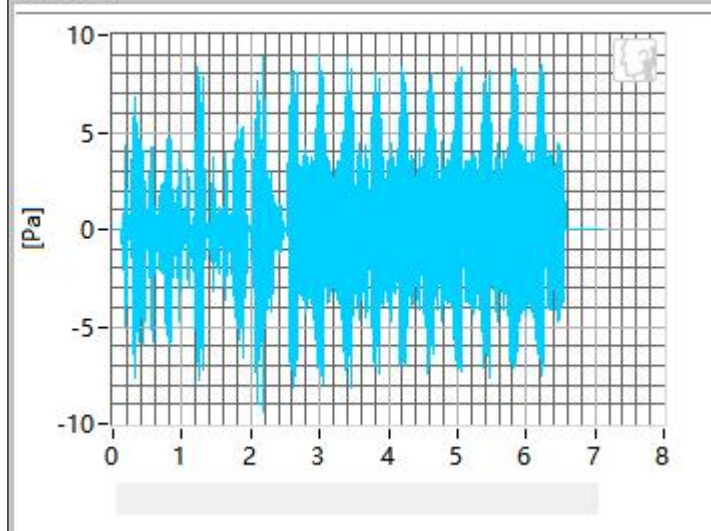
400Hz



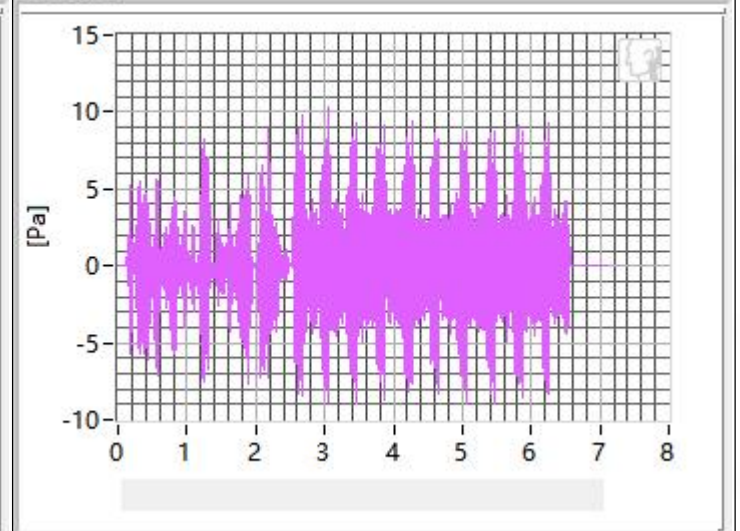
500Hz



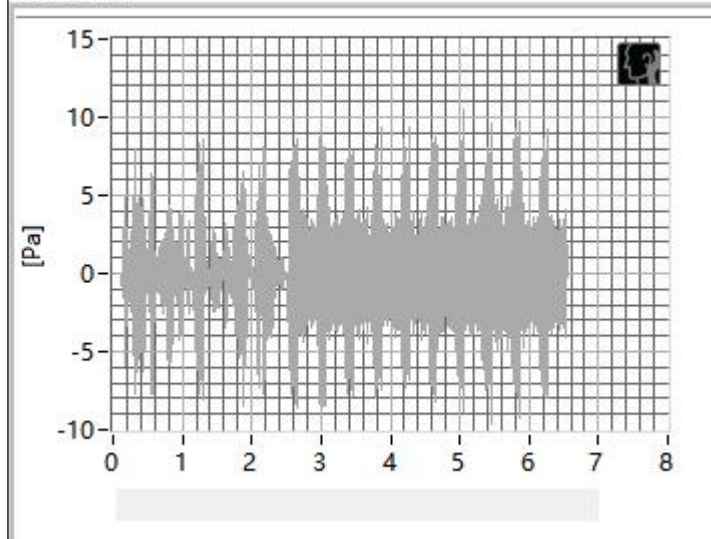
630Hz



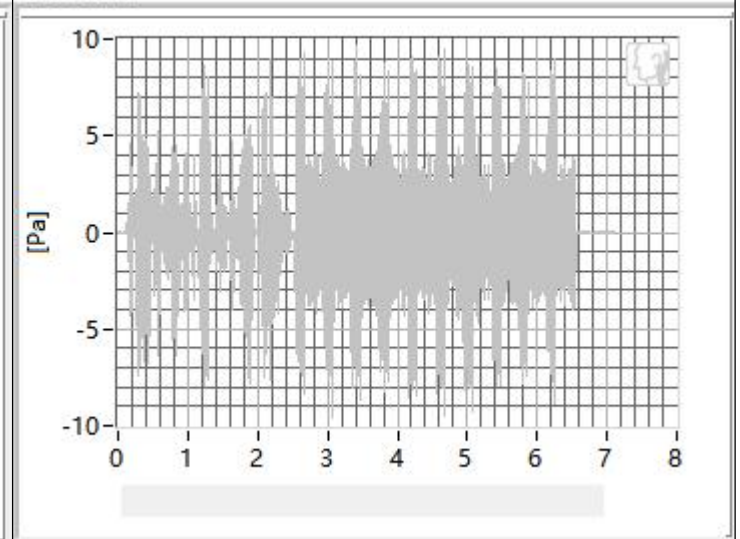
800Hz



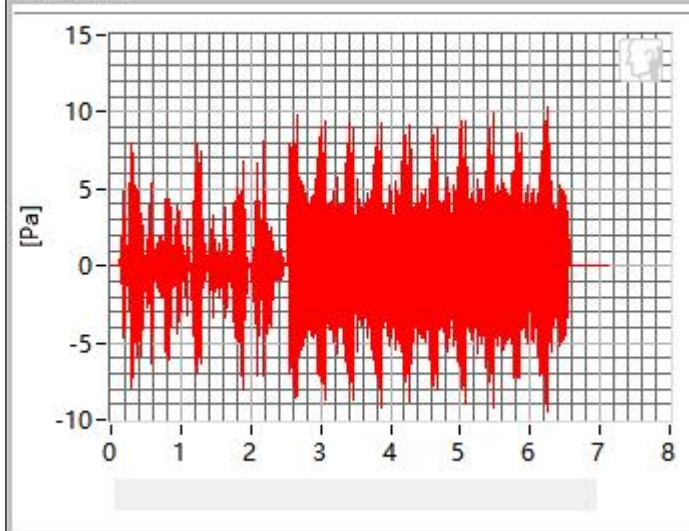
1000Hz



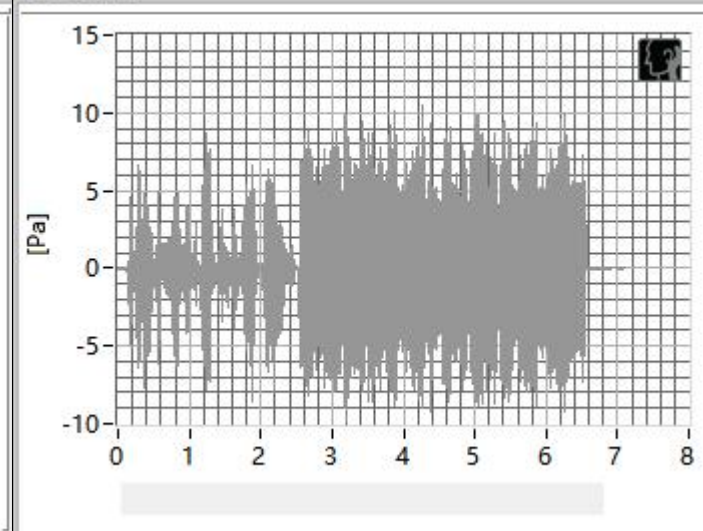
1250Hz



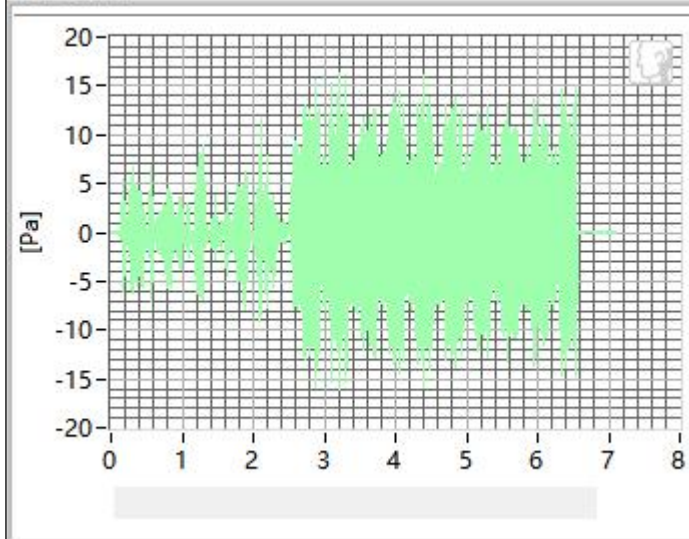
1600Hz



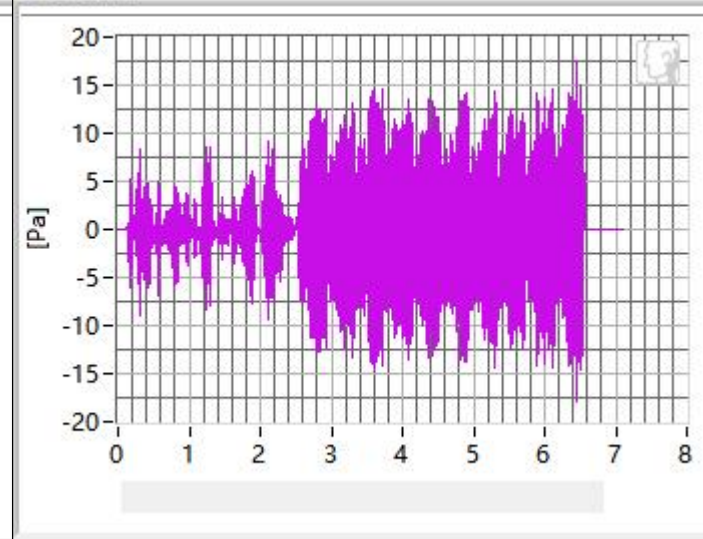
2000Hz



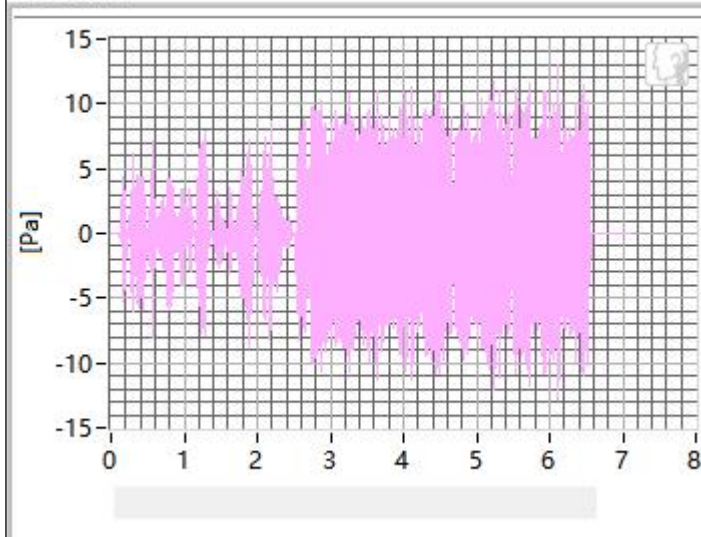
2500Hz



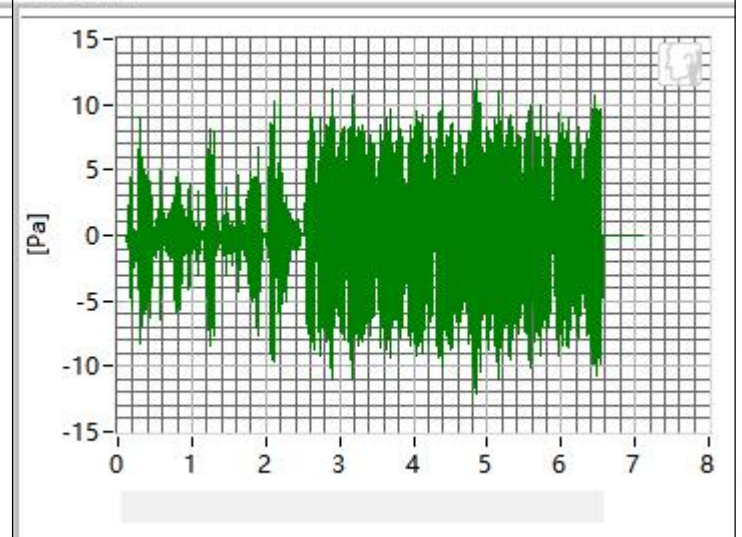
3150Hz



4000Hz



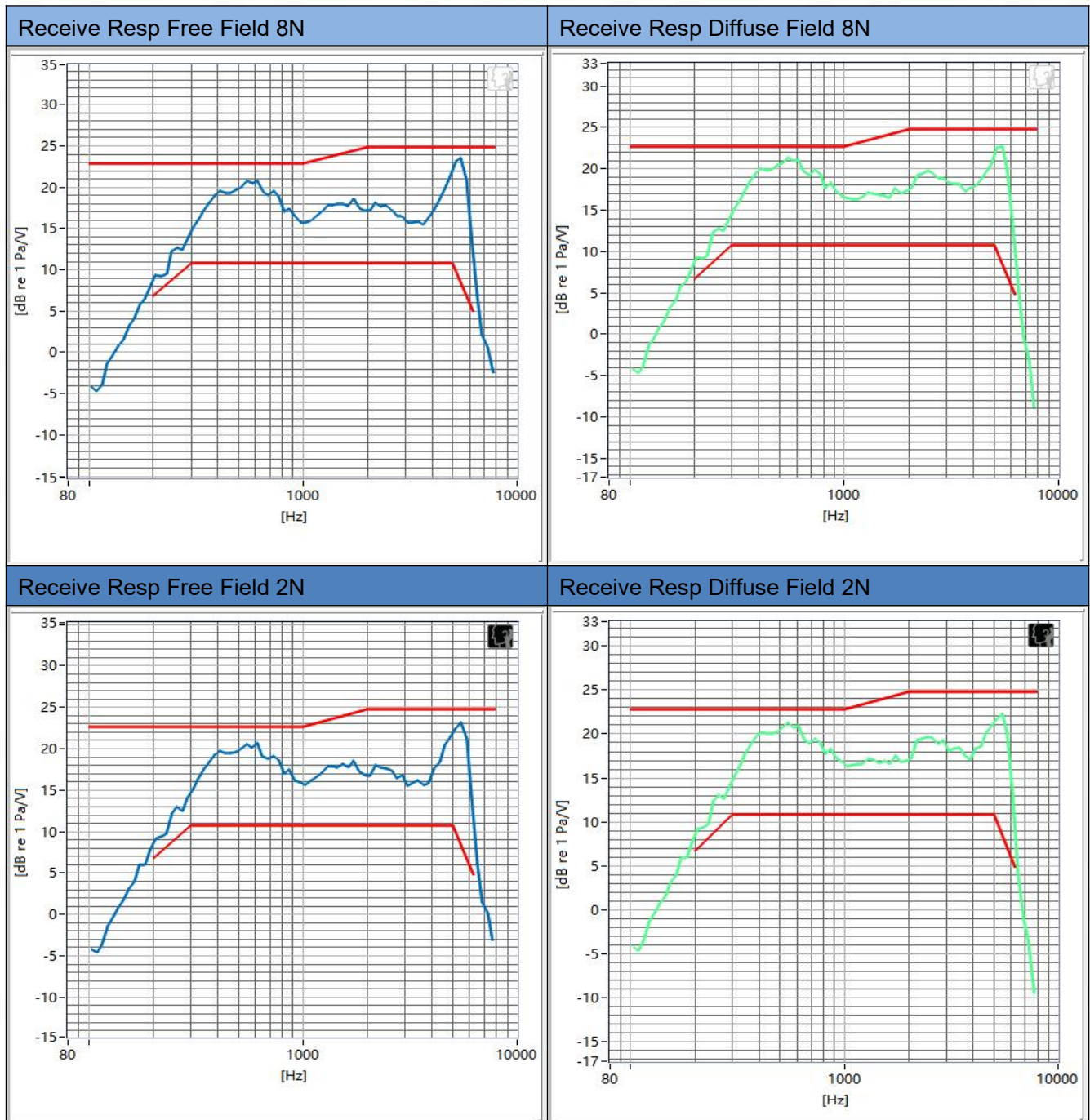
5000Hz



Frequency	SDNR	Frequency	SDNR
250Hz	22.52 dB	1250Hz	20.43 dB
315Hz	23.16 dB	1600Hz	22.24 dB
400Hz	24.67 dB	2000Hz	20.21 dB
500Hz	27.67 dB	2500Hz	24.36 dB
630Hz	27.56 dB	3150Hz	24.78 dB
800Hz	26.69 dB	4000Hz	24.28 dB
1000Hz	23.46 dB	5000Hz	21.51 dB

All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.21 dB at 2000Hz.

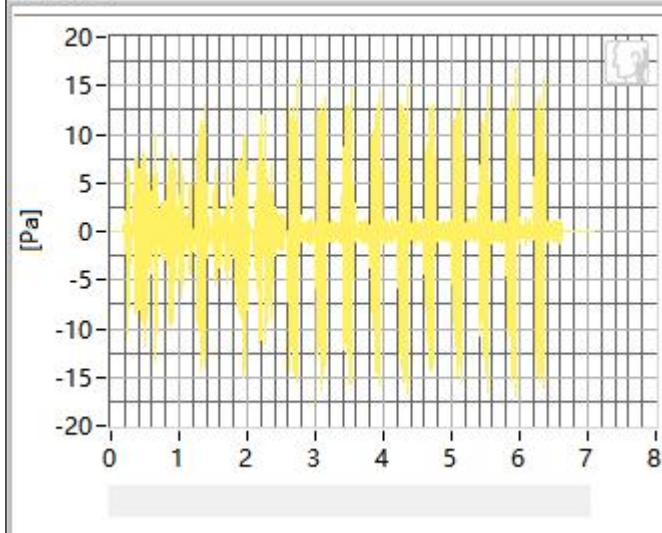
3.3 Receive Frequency Response



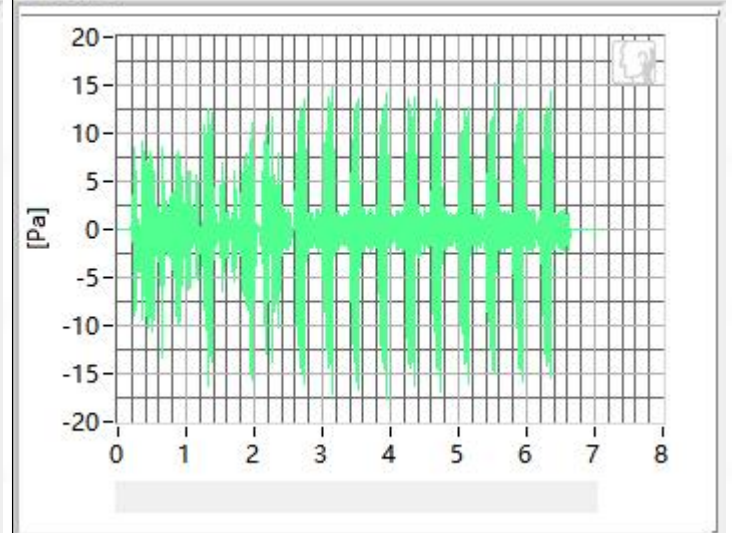
4. 2.4G WIFI in channel 11

4.1 Receive Distortion and Noise 8N WB

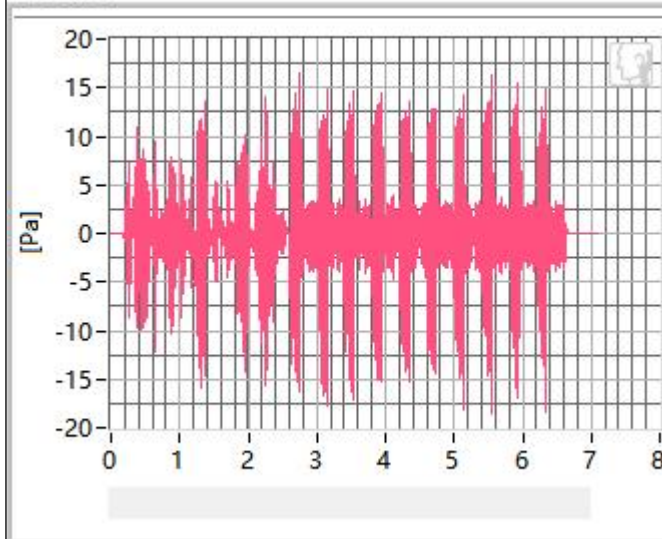
250Hz



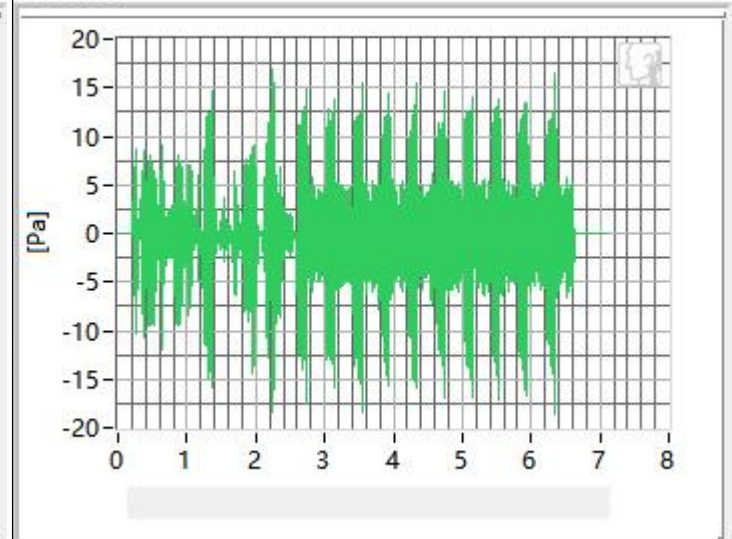
315Hz



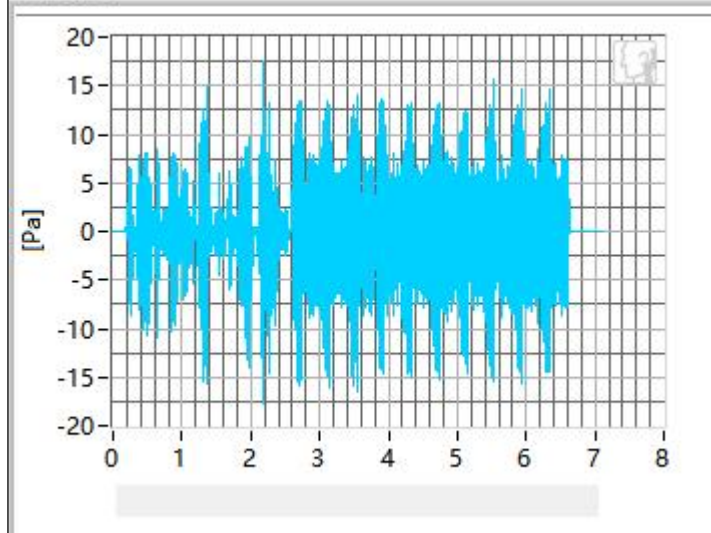
400Hz



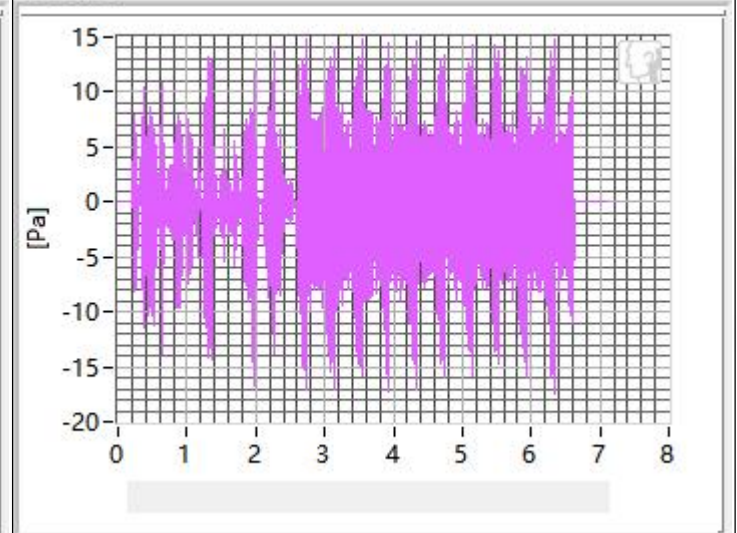
500Hz



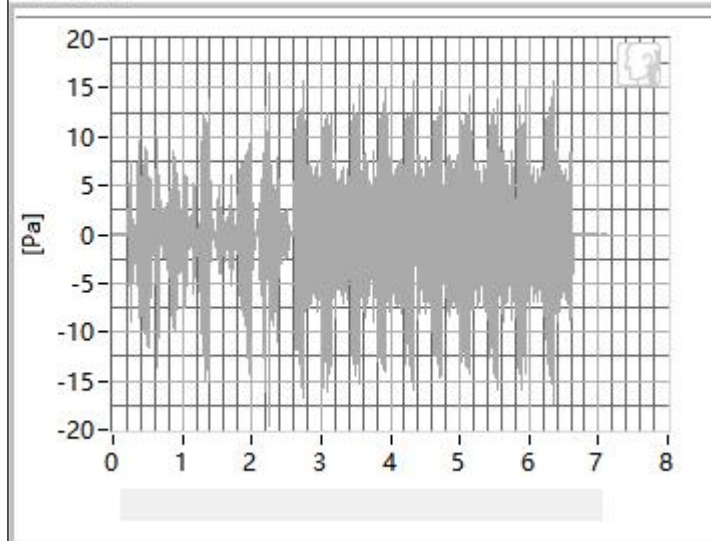
630Hz



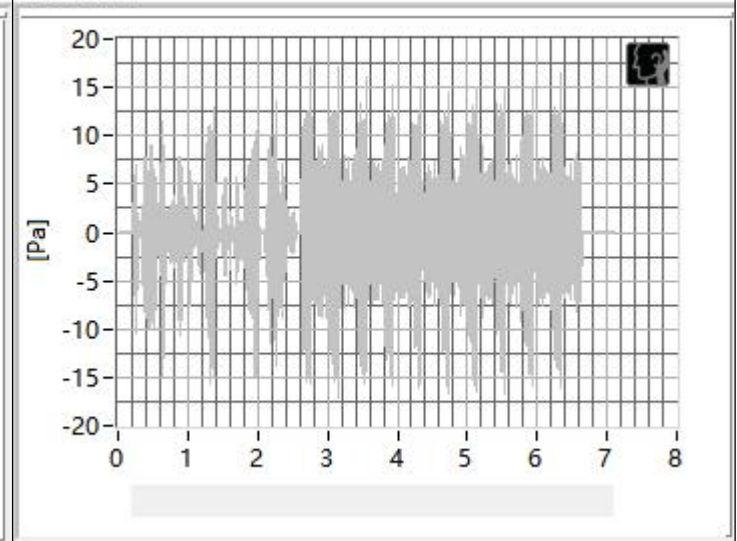
800Hz



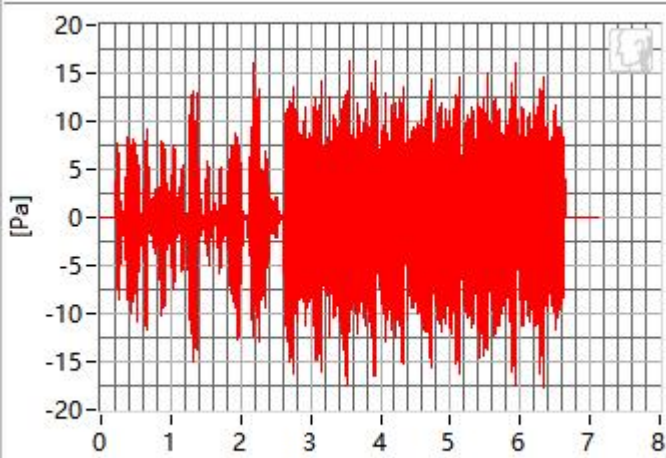
1000Hz



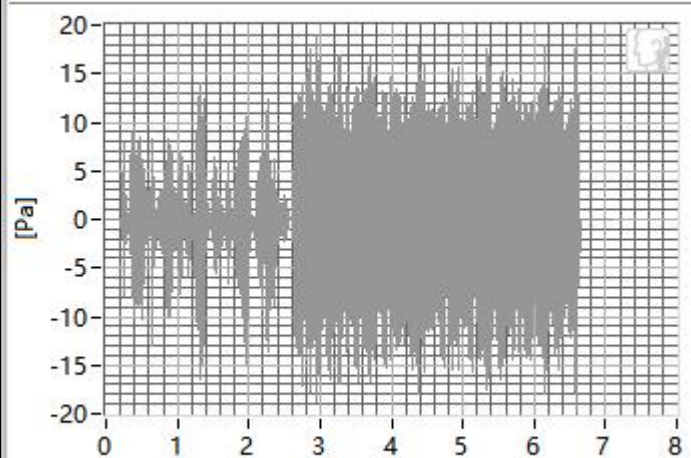
1250Hz



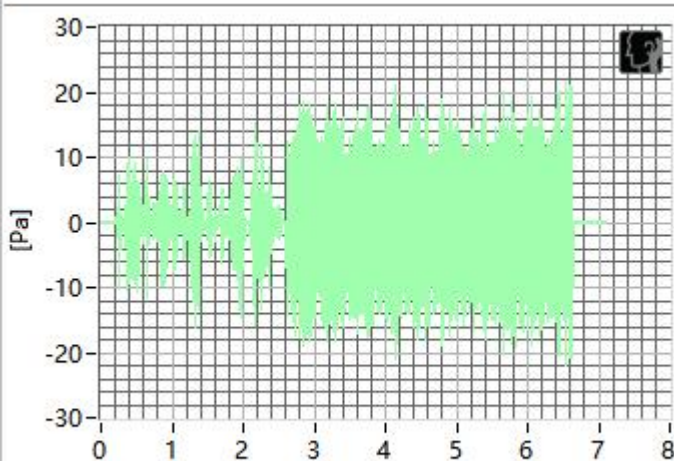
1600Hz



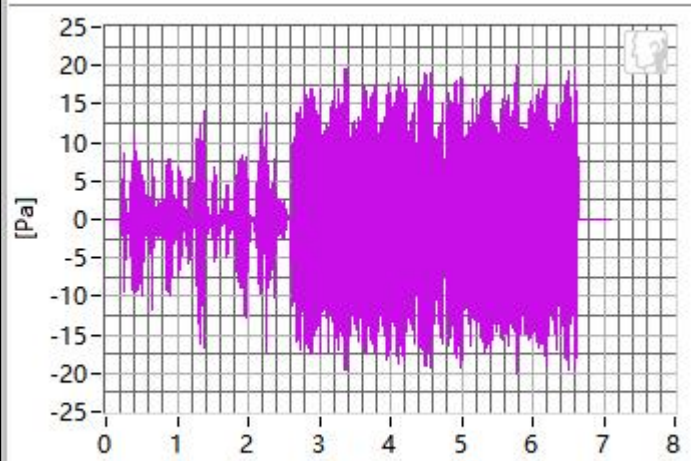
2000Hz



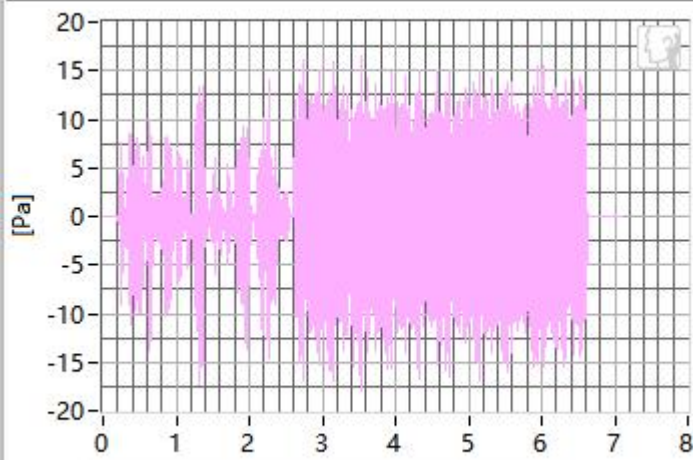
2500Hz



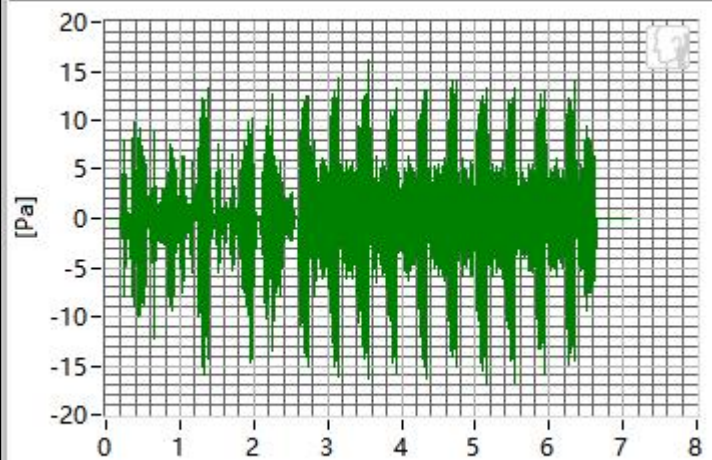
3150Hz



4000Hz



5000Hz

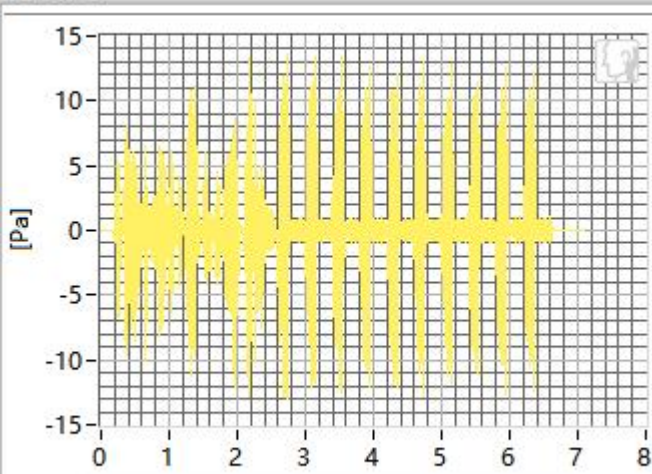


Frequency	SDNR	Frequency	SDNR
250Hz	23.92 dB	1250Hz	22.41 dB
315Hz	23.57 dB	1600Hz	23.24 dB
400Hz	25.23 dB	2000Hz	21.41 dB
500Hz	26.40 dB	2500Hz	24.94 dB
630Hz	28.50 dB	3150Hz	26.28 dB
800Hz	26.50 dB	4000Hz	27.34 dB
1000Hz	21.53 dB	5000Hz	20.77 dB

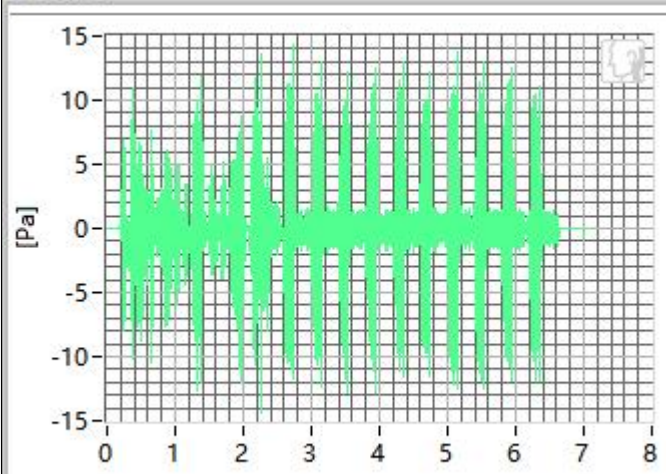
All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.77 dB at 5000 Hz.

4.2 Receive Distortion and Noise 2N WB

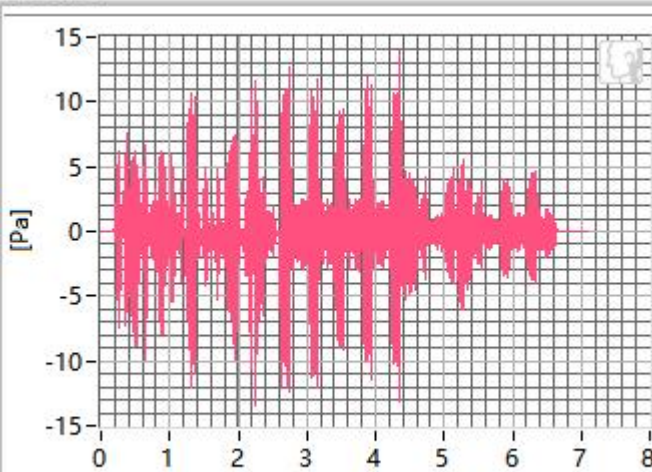
250Hz



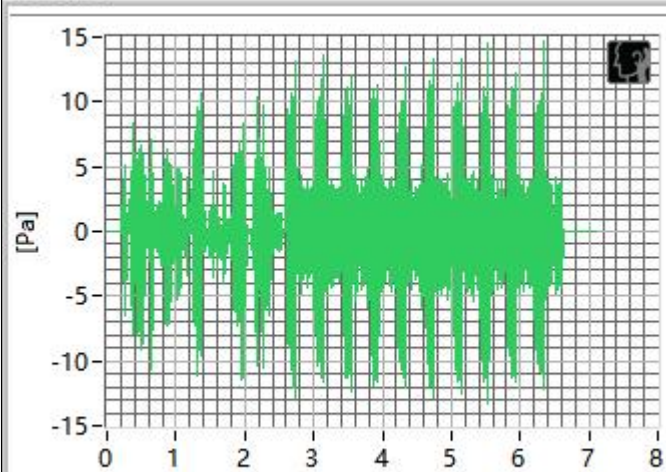
315Hz



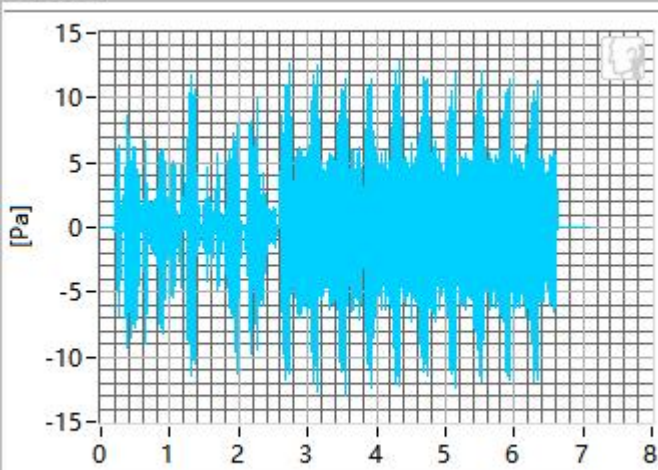
400Hz



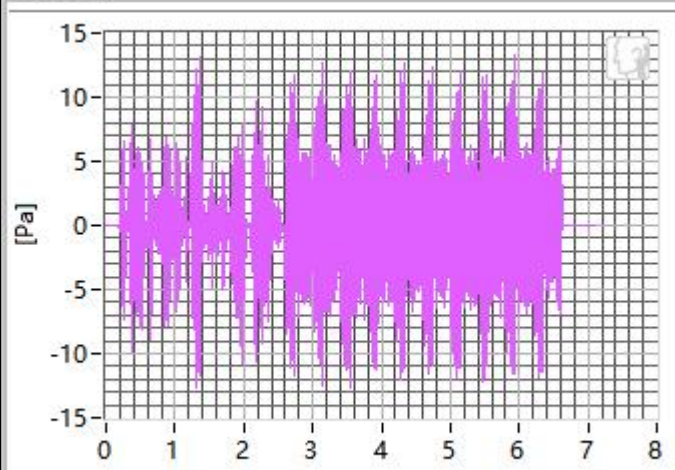
500Hz



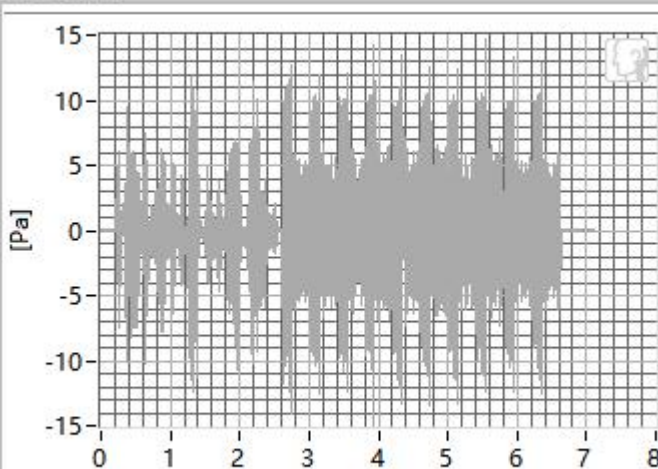
630Hz



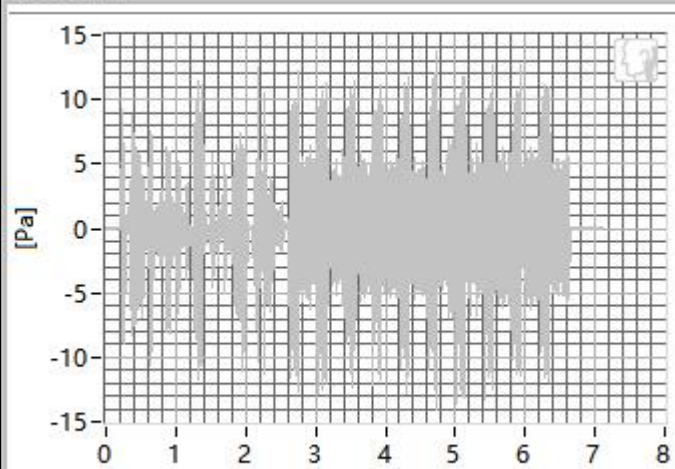
800Hz



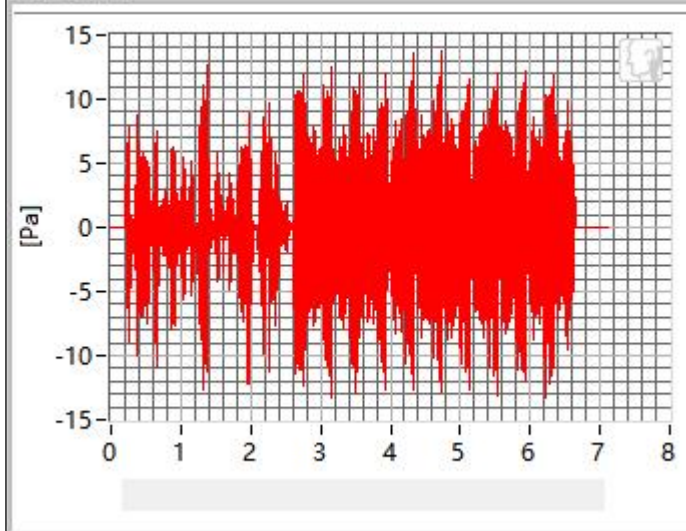
1000Hz



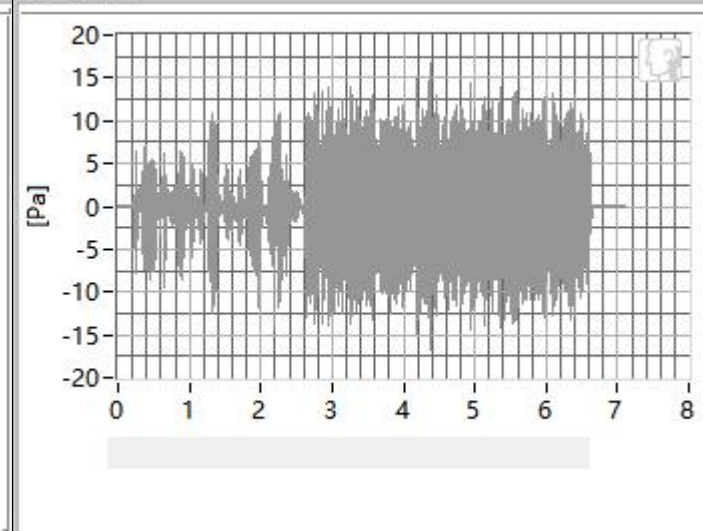
1250Hz



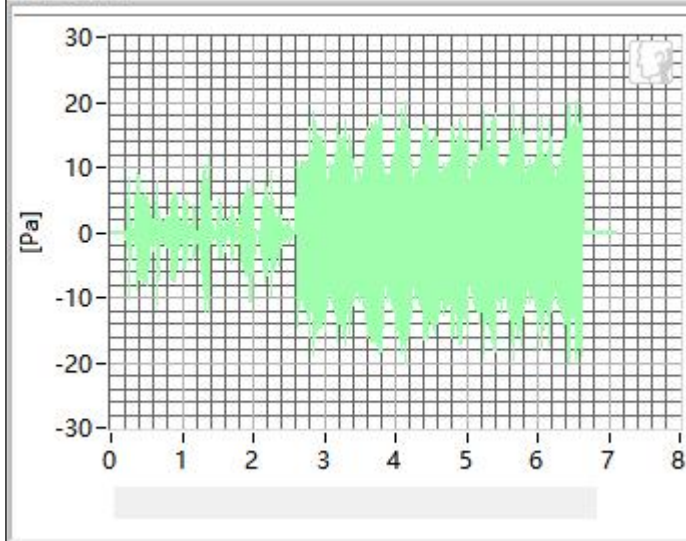
1600Hz



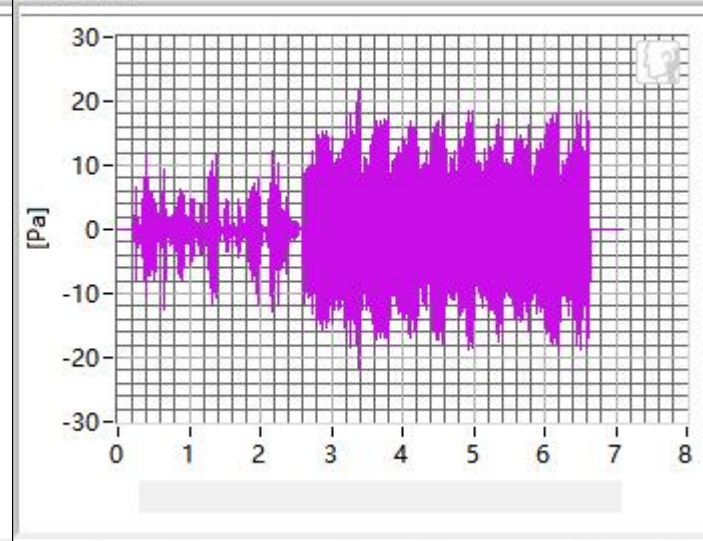
2000Hz



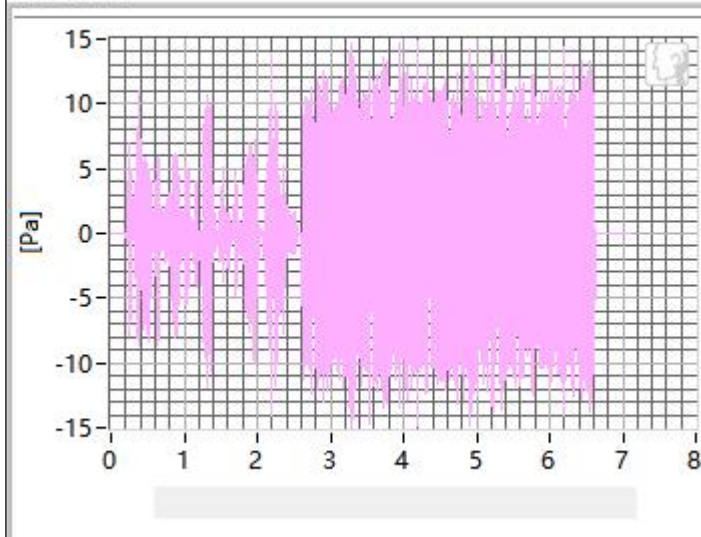
2500Hz



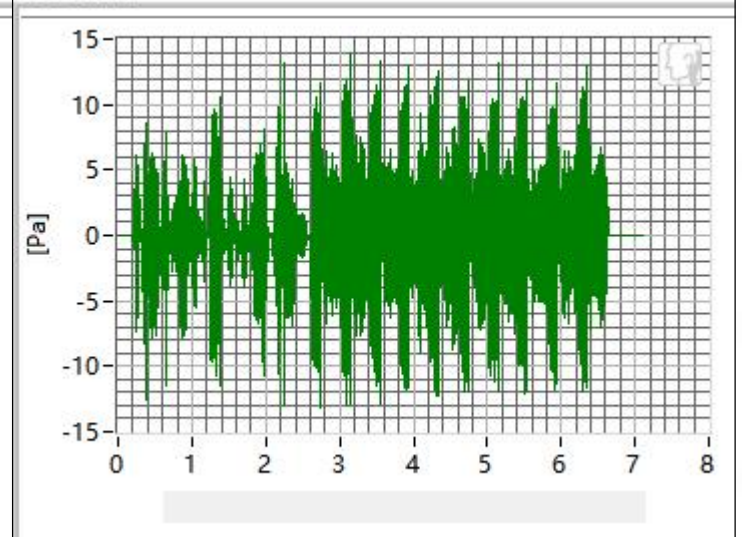
3150Hz



4000Hz



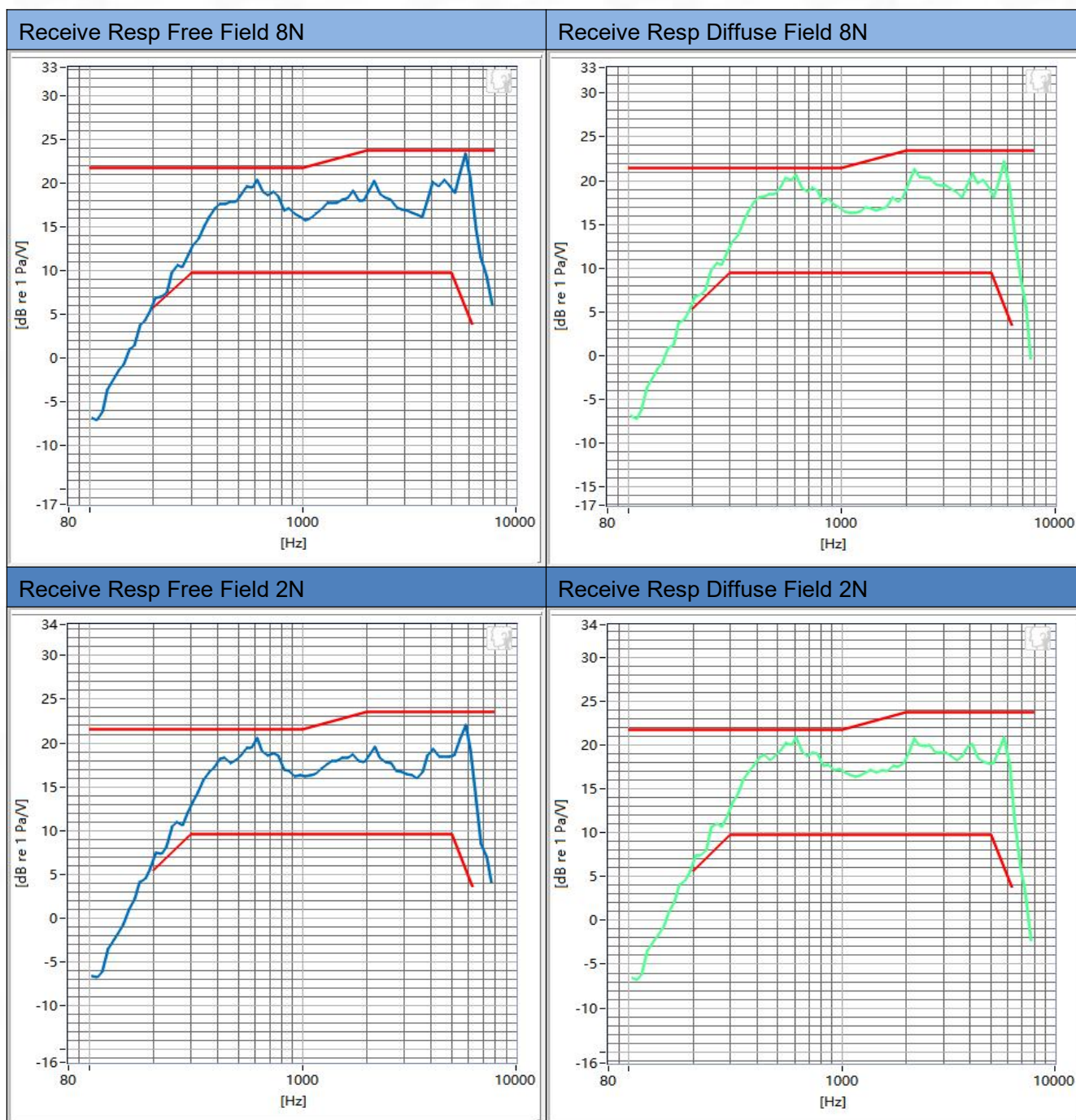
5000Hz



Frequency	SDNR	Frequency	SDNR
250Hz	23.35 dB	1250Hz	22.45 dB
315Hz	23.03 dB	1600Hz	22.59 dB
400Hz	23.79 dB	2000Hz	21.60 dB
500Hz	26.63 dB	2500Hz	25.60 dB
630Hz	27.24 dB	3150Hz	27.64 dB
800Hz	24.75 dB	4000Hz	26.52 dB
1000Hz	23.11 dB	5000Hz	20.35 dB

All SDNRs were greater than 20.0 dB, requirement was met. Smallest SDNR was 20.35 dB at 5000Hz.

4.3 Receive Frequency Response



ANNEX B Test Setup Photo

Please refer to the document “ANNEX B Test Setup Photo_VC.pdf”.

ANNEX C CALIBRATION REPORT

Please refer to the document “CALIBRATION REPORT.pdf”.



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--END OF REPORT--