

Test Report

Verified Code:830187

Report No.:H202411139558-03EN-G1

Customer: HUAWEI TECHNOLOGIES CO.,LTD

Address: Administration Building,Headquarters of Huawei Technologies
Co.,Ltd.,Bantian,Longgang District,Shenzhen,518129,P.R.C

Sample Name: JUPITER/STS - 3000K

Sample Model: /

Receive
Sample Date: Nov.22,2024

Test Date: Nov.22,2024

Reference
Document: According to the client's requirements

Test Result: Make no judgment

Prepared by

Cao Zhiming

Reviewed by

Zhang bo

Approved by

Pang Wei

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date:

GRG METROLOGY & TEST GROUP CO., LTD.

Address: No.163, Pingyun Road, West of Huangpu Avenue, Guangzhou, Guangdong, China

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H202411139558-03EN-G1



Statement

1. The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.
2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. The test report only used for scientific research, teaching, internal quality control and other purposes.
6. This report H202411139558-03EN-G1 is the modification of report H202411139558-03EN. On the basis of the original report, the sample name in the report is corrected from " JUPITERSTS - 3000K " to " JUPITER/STS - 3000K ", and the original report H202411139558-03EN is invalid.

Test type	☐ Commissioning Test ☐ Routine test ☐ DV ☐ ECV ☐ PV ☐ OTS ☐ R&D test ☒ Others <u>Pilot Test</u>			
Sample Source	☒ Commissioned units send sample ☐ Others:			
Sample	Model	Quantity	Sample No.	Test No.
JUPITER/STS - 3000K	/	1 pc	/	H202411139558-0003
Sample Components and Accessories	Components: / Accessories: /			
Test with packaging or not	☐ Yes, Outer Packing _____ ☒ No			
Sample quality before test	☒ Conformity Product ☐ Non-conformity Product ☐ Prototype ☐ Others			
Abnormal condition of sample before test	No Abnormalities			
Environmental requirements	Temperature: 15.0℃~35.0℃ Relative Humidity: 25%~75% Atmospheric pressure: 86kPa~106kPa			
Test Address	77 Tengfei Road , Liyang City, Changzhou City, Jiangsu Province			

1 Noise measurement

1.1 Test Condition

According to the client's requirements.

1.1.1 The sound pressure level was tested by hexahedron method, The microphone position was shown in Figure 1-1.

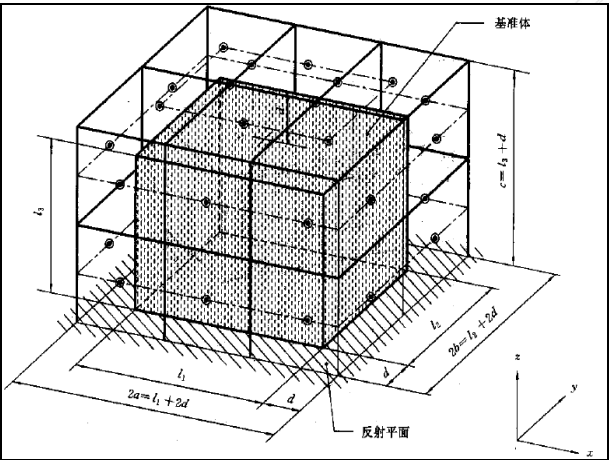


Figure 1-1 Location of microphone measuring points

1.1.2 Figure 1-2 shows the actual measuring points

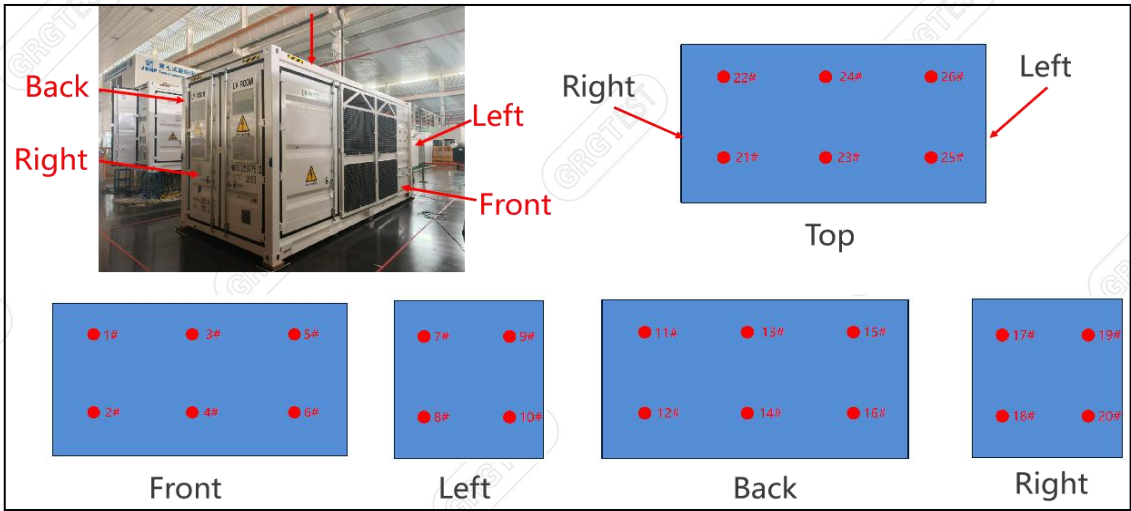


Figure 1-2 The actual measuring points

1.1.3 Test condition

- 1) Transformer full load condition;
- 2) Transformer no-load condition.

1.2 Sample Information

Sample information is shown in Table 1-1.

Table 1-1 Sample Information

Sample Name	Model	Quantity	Sample size (length*Wide*High)	Test No.
JUPITER/STS - 3000K	/	1 pc	6.1m*2.4m*2.6m	H202411139558-0003

1.3 Test Requirements

According to the client's requirements.

Recorded each measuring points the weight A sound pressure level、average sound pressure level and sound power level.

1.4 Test Result

The test result is shown in table 1-2 ~ table 1-6 .

Table 1-2 Transformer full load condition sound pressure level test result

Test No.	measuring points	sound pressure level dB(A)	Average sound pressure level dB(A)	Sound power level dB(A)
H202411139558-0003	Point 1	23.30	62.87	83.85
	Point 2	25.71		
	Point 3	27.66		
	Point 4	41.71		
	Point 5	35.75		
	Point 6	40.23		
	Point 7	44.15		
	Point 8	47.19		
	Point 9	52.36		
	Point 10	49.05		
	Point 11	50.72		
	Point 12	51.73		
	Point 13	52.91		
	Point 14	52.81		
	Point 15	53.73		
	Point 16	53.87		
	Point 17	52.62		
	Point 18	49.53		
	Point 19	47.13		
	Point 20	47.64		
	Point 21	43.12		
	Point 22	41.96		
	Point 23	42.58		
	Point 24	36.87		
	Point 25	23.30		
	Point 26	25.71		

Table 1-3 Transformer no-load condition sound pressure level test result

Test No.	measuring points	sound pressure level dB(A)	Average sound pressure level dB(A)	Sound power level dB(A)
H202411139558-0003	Point 1	19.81	44.06	65.05
	Point 2	21.29		
	Point 3	22.09		
	Point 4	40.55		
	Point 5	22.83		
	Point 6	22.35		
	Point 7	26.85		
	Point 8	26.82		
	Point 9	26.60		
	Point 10	27.45		
	Point 11	29.28		
	Point 12	28.32		
	Point 13	27.99		
	Point 14	29.55		
	Point 15	28.59		
	Point 16	28.86		
	Point 17	29.27		
	Point 18	29.25		
	Point 19	29.36		
	Point 20	29.51		
	Point 21	29.44		
	Point 22	29.57		
	Point 23	29.36		
	Point 24	28.80		
	Point 25	19.81		
	Point 26	21.29		

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Table 1-4 Transformer full load condition 1/3 octave value for each measuring point test result

Octave 1/3 Hz	Point 1 dB(A)	Point 2 dB(A)	Point 3 dB(A)	Point 4 dB(A)	Point 5 dB(A)	Point 6 dB(A)	Point 7 dB(A)	Point 8 dB(A)	Point 9 dB(A)	Point 10 dB(A)
50	21.40	25.13	21.21	25.42	19.53	25.03	21.47	28.13	18.74	25.41
63	26.39	29.41	27.95	29.31	25.95	28.92	24.50	27.49	20.34	24.76
80	26.32	28.82	25.85	25.40	23.42	26.32	30.31	31.11	27.54	28.45
100	36.27	43.45	42.97	42.21	40.68	37.19	45.00	47.26	44.85	33.73
125	35.52	31.66	31.20	31.88	33.23	31.93	39.03	39.87	38.79	37.82
160	36.31	37.34	35.97	35.40	35.99	35.01	43.68	43.99	40.31	38.07
200	40.52	40.86	38.08	39.33	39.13	39.70	47.33	49.96	44.39	44.81
250	43.49	43.97	40.77	42.16	43.84	42.92	52.86	52.46	49.44	49.52
315	47.89	49.26	45.39	46.47	48.72	51.61	55.33	57.75	54.14	56.59
400	43.75	44.47	42.91	44.44	42.93	42.78	53.00	56.94	50.95	48.11
500	45.82	46.26	44.22	46.01	43.93	44.64	54.24	57.72	52.72	56.36
630	45.72	46.61	45.24	44.32	44.57	44.75	56.13	55.71	52.91	57.20
800	47.49	48.61	48.18	47.79	47.22	48.65	53.61	55.10	54.72	54.95
1000	47.00	47.57	45.13	45.93	45.04	46.38	54.99	56.18	51.57	54.50
1250	47.24	49.44	44.95	47.63	46.09	46.97	55.25	57.51	52.72	52.63
1600	47.47	50.28	46.65	49.49	46.78	48.95	55.21	58.17	52.98	53.75
2000	46.94	48.85	45.96	46.06	45.96	46.24	55.45	56.66	52.80	54.08
2500	43.55	44.91	42.53	44.44	41.52	42.66	52.97	54.12	49.23	50.51
3150	41.42	42.05	39.52	40.88	39.63	39.90	49.83	50.15	45.42	46.98
4000	40.95	41.28	38.14	38.09	37.91	38.24	52.44	51.21	48.11	46.13
5000	36.87	39.25	34.29	34.30	34.11	34.10	46.83	46.35	45.26	43.68
6300	36.85	37.28	34.14	33.97	33.84	33.80	46.21	44.87	43.54	42.84
8000	35.21	36.75	34.22	33.83	34.41	34.47	46.92	47.14	41.71	42.59
10000	30.98	31.96	30.17	30.21	29.94	29.81	39.70	39.79	37.08	36.47

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**Continue to Table 1-4 Transformer full load condition 1/3 octave value
for each measuring point test result**

Octave 1/3 Hz	Point 11 dB(A)	Point 12 dB(A)	Point 13 dB(A)	Point 14 dB(A)	Point 15 dB(A)	Point 16 dB(A)	Point 17 dB(A)	Point 18 dB(A)	Point 19 dB(A)	Point 20 dB(A)
50	18.08	21.60	16.64	19.49	22.70	25.62	23.29	25.54	23.08	25.55
63	23.13	25.30	18.54	21.65	23.96	26.75	22.84	28.15	24.96	27.71
80	22.89	27.04	21.27	24.60	26.10	29.61	29.02	30.28	31.07	30.76
100	41.62	38.26	42.77	34.14	41.30	42.14	40.34	43.06	39.47	44.68
125	31.42	30.84	30.81	30.24	32.55	30.29	39.98	38.67	40.52	40.02
160	34.74	35.01	34.49	32.37	35.89	36.00	41.68	42.05	46.81	48.42
200	37.27	35.73	36.81	39.01	37.21	36.00	47.28	46.63	49.86	51.63
250	41.29	40.50	39.70	40.51	40.48	39.28	51.97	49.32	52.52	51.50
315	47.36	43.25	46.04	45.94	48.13	44.15	55.15	55.61	57.66	57.94
400	42.79	42.71	41.61	41.25	42.73	41.00	53.66	53.65	51.68	54.43
500	44.79	46.65	44.91	43.99	43.50	43.15	52.48	54.74	53.66	55.87
630	45.50	44.18	44.40	44.72	43.41	44.13	53.37	54.57	57.54	59.07
800	44.88	49.57	47.01	47.27	43.78	47.02	54.59	58.92	60.46	59.62
1000	44.17	45.17	43.52	44.35	44.76	47.14	56.24	56.24	59.84	61.58
1250	45.00	45.83	44.64	45.40	45.66	47.90	57.00	58.57	60.54	62.60
1600	45.32	45.54	45.69	46.25	47.85	48.40	56.13	58.72	60.55	62.52
2000	44.49	44.79	44.58	45.59	45.39	45.76	55.05	57.87	58.45	61.10
2500	41.53	40.75	41.25	42.27	41.64	41.54	52.78	53.58	55.97	57.78
3150	38.96	38.08	39.23	39.09	39.82	40.21	51.35	52.80	52.62	55.96
4000	37.87	37.12	38.74	37.94	39.03	40.08	51.03	53.07	53.19	56.39
5000	33.80	33.73	34.61	34.86	35.41	37.31	46.50	47.48	50.08	51.00
6300	33.70	33.53	34.21	34.48	35.29	35.62	45.55	46.09	48.83	49.70
8000	33.61	33.24	33.53	33.64	34.53	35.13	46.32	47.37	48.85	50.72
10000	29.66	29.39	30.03	29.99	30.91	30.82	40.18	40.73	43.60	45.38

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**Continue to Table 1-4 Transformer full load condition 1/3 octave value
for each measuring point test result**

Octave 1/3 Hz	Point 21 dB(A)	Point 22 dB(A)	Point 23 dB(A)	Point 24 dB(A)	Point 25 dB(A)	Point 26 dB(A)
50	22.14	22.56	23.37	23.44	20.00	18.79
63	21.19	26.42	23.21	23.48	20.82	21.06
80	25.08	29.05	24.29	25.14	23.61	23.95
100	39.56	40.84	33.93	42.35	34.88	32.30
125	33.28	32.44	30.60	31.32	30.42	30.28
160	37.95	33.63	32.87	32.88	33.72	33.14
200	40.54	37.69	36.76	36.23	37.18	37.12
250	42.32	40.82	39.02	39.25	40.59	39.28
315	47.53	46.54	44.98	42.27	45.52	45.86
400	43.58	41.68	40.68	40.36	41.34	40.73
500	44.35	43.80	41.35	41.06	42.54	43.01
630	44.82	42.67	42.68	41.56	44.00	42.46
800	45.08	44.77	42.32	42.26	42.86	45.45
1000	44.55	43.33	42.39	41.50	42.78	42.69
1250	44.46	44.46	42.57	42.36	44.40	43.45
1600	44.68	43.57	42.51	42.78	43.09	43.68
2000	43.17	41.92	41.26	41.02	41.60	41.73
2500	40.11	39.73	38.65	38.68	39.13	39.53
3150	38.26	38.02	36.69	36.83	37.93	37.25
4000	37.81	36.82	36.02	36.10	36.34	36.21
5000	34.04	33.23	32.58	32.43	32.97	32.94
6300	33.29	32.49	32.03	32.11	32.03	32.43
8000	33.66	32.12	32.38	31.59	31.58	32.00
10000	30.12	29.55	29.53	29.35	29.24	29.40

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Table 1-5 Transformer no-load condition 1/3 octave value for each measuring point test result

Octave 1/3 Hz	Point 1 dB(A)	Point 2 dB(A)	Point 3 dB(A)	Point 4 dB(A)	Point 5 dB(A)	Point 6 dB(A)	Point 7 dB(A)	Point 8 dB(A)	Point 9 dB(A)	Point 10 dB(A)
50	19.15	23.25	19.41	23.26	16.93	19.59	21.26	25.21	15.71	20.65
63	22.87	26.75	18.88	20.64	13.68	19.35	20.86	24.03	15.15	16.89
80	20.47	21.43	20.32	18.70	18.03	22.34	20.74	23.24	20.63	18.35
100	40.44	45.59	43.23	38.39	39.12	35.08	41.76	46.47	43.39	28.14
125	21.91	25.10	24.53	21.47	21.43	19.23	23.65	26.24	24.27	19.99
160	23.24	21.70	22.56	21.18	21.08	20.46	23.05	21.23	21.64	22.17
200	25.54	25.60	31.09	25.37	28.81	25.81	25.45	25.87	25.81	27.21
250	26.24	25.00	25.56	24.88	26.06	23.95	31.42	26.29	30.29	29.17
315	26.38	24.95	28.29	26.64	27.88	24.48	28.16	25.91	27.54	25.31
400	26.46	27.22	29.10	26.95	27.44	26.20	29.06	28.40	27.91	26.98
500	28.66	29.10	28.91	32.68	29.77	28.40	29.75	28.10	29.58	27.79
630	29.23	28.80	28.74	28.07	28.32	27.39	28.86	27.72	29.40	28.28
800	28.49	27.36	28.94	28.56	28.04	27.18	29.21	28.59	29.85	28.84
1000	30.22	28.98	30.06	29.19	29.55	28.74	31.49	30.55	31.48	30.52
1250	29.70	28.72	29.47	29.39	28.66	27.92	29.66	28.86	29.84	28.81
1600	29.63	28.68	29.72	29.59	28.96	27.83	29.86	28.80	29.94	28.76
2000	29.63	28.95	29.81	29.74	29.17	28.31	30.23	29.02	29.94	28.92
2500	29.40	28.91	29.92	29.80	29.40	28.45	30.13	28.99	29.78	28.95
3150	29.31	29.07	29.88	30.08	29.55	28.81	29.72	28.96	29.98	29.13
4000	29.32	29.13	29.88	29.94	30.44	29.57	29.48	29.00	30.00	29.38
5000	29.49	29.19	29.79	29.62	29.81	29.26	29.50	29.10	29.65	29.09
6300	29.63	29.36	29.80	29.66	29.85	29.30	29.67	29.28	29.78	29.26
8000	29.46	29.22	29.53	29.36	29.50	29.19	29.50	29.15	29.45	29.09
10000	29.02	28.60	28.97	28.70	28.89	28.56	28.92	28.56	28.94	28.53

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**Continue to Table 1-5 Transformer no-load condition 1/3 octave value
for each measuring point test result**

Octave 1/3 Hz	Point 11 dB(A)	Point 12 dB(A)	Point 13 dB(A)	Point 14 dB(A)	Point 15 dB(A)	Point 16 dB(A)	Point 17 dB(A)	Point 18 dB(A)	Point 19 dB(A)	Point 20 dB(A)
50	16.53	19.40	13.49	16.04	18.49	21.92	15.32	19.46	16.45	20.42
63	17.50	20.56	16.13	19.57	22.14	26.06	16.06	19.44	17.64	24.69
80	22.25	23.75	17.26	21.46	23.33	25.78	20.66	21.02	17.71	19.11
100	42.34	39.05	42.16	35.99	43.66	38.15	36.56	39.61	35.06	41.32
125	23.47	21.00	23.20	19.94	25.00	21.67	20.45	21.12	20.10	21.78
160	21.83	22.08	21.27	21.39	23.89	23.25	22.20	21.02	20.89	21.37
200	25.61	27.40	24.99	29.06	27.25	27.93	26.50	24.95	26.09	28.65
250	28.02	27.07	25.29	24.75	26.60	27.49	27.20	25.23	26.28	26.10
315	25.98	25.45	27.98	27.67	26.63	27.53	26.42	26.17	26.44	25.77
400	27.48	28.00	27.43	28.01	28.65	29.57	26.76	26.69	26.32	25.50
500	31.06	30.57	32.29	27.57	29.06	29.73	27.28	27.12	26.75	26.11
630	28.56	27.82	28.99	28.29	29.29	28.87	27.95	27.51	27.42	26.73
800	28.52	27.96	28.18	27.37	28.13	27.87	27.70	26.87	27.07	26.42
1000	30.05	28.80	29.78	28.62	29.60	28.12	29.04	28.29	28.40	27.40
1250	28.89	27.73	28.73	27.69	28.26	27.77	28.49	28.21	27.93	27.13
1600	29.22	28.28	29.01	28.13	28.76	28.19	29.58	29.23	28.07	27.60
2000	29.54	28.46	29.40	28.14	29.13	28.37	30.65	30.49	28.75	28.11
2500	29.62	28.50	29.34	28.48	29.07	28.40	30.73	29.91	28.82	28.18
3150	29.49	28.73	29.47	28.76	29.20	28.62	30.56	30.33	29.01	28.51
4000	29.38	28.91	29.76	29.45	29.35	28.98	29.75	29.28	29.44	28.99
5000	29.36	29.02	29.55	29.14	29.43	28.96	29.83	29.30	29.47	29.09
6300	29.63	29.34	29.68	29.36	29.65	29.26	29.88	29.44	29.68	29.22
8000	29.49	29.12	29.43	29.12	29.49	29.11	29.72	29.20	29.44	29.10
10000	28.88	28.56	28.92	28.60	28.94	28.54	29.03	28.62	28.91	28.52

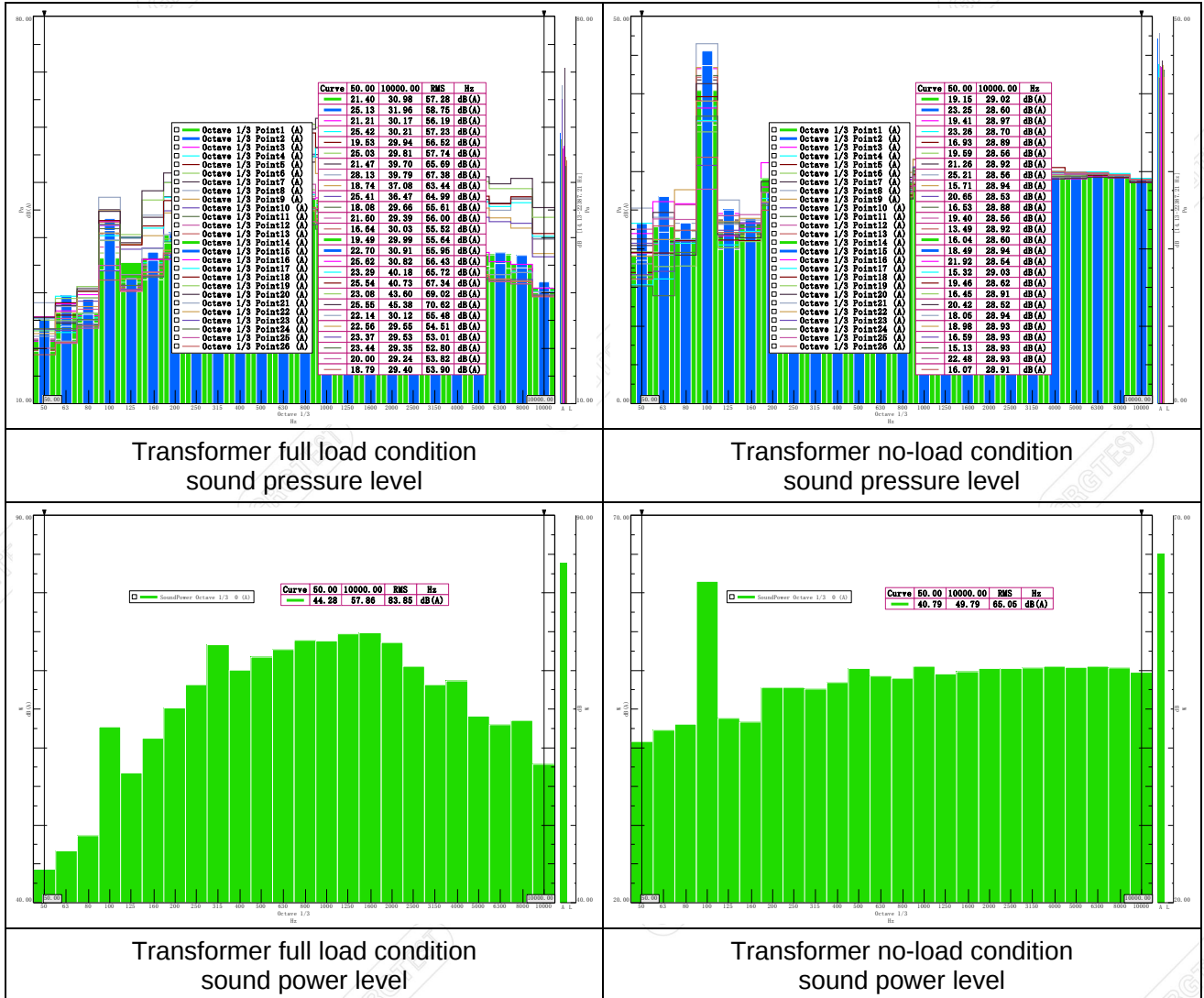
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**Continue to Table 1-5 Transformer no-load condition 1/3 octave value
for each measuring point test result**

Octave 1/3 Hz	Point 21 dB(A)	Point 22 dB(A)	Point 23 dB(A)	Point 24 dB(A)	Point 25 dB(A)	Point 26 dB(A)
50	18.05	18.98	16.59	15.13	22.48	16.07
63	19.11	21.17	17.07	13.88	23.82	22.92
80	21.16	27.57	20.91	19.46	25.62	22.34
100	36.41	39.05	30.72	37.12	27.67	31.76
125	23.10	23.45	22.32	23.35	24.21	22.07
160	23.65	23.91	23.32	22.77	24.41	22.04
200	25.81	26.00	25.81	25.55	27.27	24.93
250	25.55	25.06	26.00	24.84	27.32	25.04
315	25.21	26.03	25.93	25.49	28.37	25.26
400	26.62	25.93	27.04	26.44	27.44	26.96
500	28.88	27.83	28.67	30.67	28.12	29.25
630	28.86	28.29	28.17	28.72	28.00	26.42
800	27.66	27.80	27.42	27.82	27.33	26.70
1000	29.84	29.13	28.92	30.41	29.36	28.91
1250	28.49	28.34	28.13	28.85	28.37	28.01
1600	29.01	28.41	28.57	28.65	28.36	28.33
2000	29.09	29.26	29.44	29.14	28.94	29.16
2500	29.19	29.13	29.21	29.21	28.89	29.11
3150	29.15	29.39	29.32	29.11	29.20	29.26
4000	29.22	29.57	29.83	29.25	29.53	29.93
5000	29.29	29.76	29.62	29.35	29.62	29.82
6300	29.66	29.65	29.61	29.61	29.70	29.77
8000	29.45	29.46	29.43	29.44	29.46	29.48
10000	28.94	28.93	28.93	28.93	28.93	28.91

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Table 1-6 1/3 octave curve for each measuring point test result



1.5 Test Photos



Fig.1-3 Test photograph

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2 Test Instrument & Equipment

List of Instrument for Testing Equipment					
No.	Testing Item	Instrument/Equipment	Type	Serial No.	Calibration Valid Date
1	Noise measurement	Portable acquisition system	SC-XS12-ACL	12240914	2024-9-29~2025-9-28
2		Microphone sensor	46AE	471533	2024-01-31~2025-01-30
3		Microphone sensor	46AE	471532	2024-01-31~2025-01-30
4		Microphone sensor	46AE	471531	2024-01-31~2025-01-30
5		Sound calibrator	CAL200	19062	2024-07-19~2025-07-18
6		hygrograph	8959	664205	2024-04-10~2025-04-09
7		Tape measure	DL9005B	848678	2024-10-21~2025-10-20

——End of Report——