TEST REPORT

Application No.:	KSEM2606001810AT
Applicant:	Qingdao MicroSense Intelligent Technology Co.,Ltd.
Address of Applicant:	Room 803, Floor 8, Building F, InnovationPark Ⅱ, No.1, Keyuan Wei 1st Road, Laoshan District, Qingdao, Shandong, China
Manufacturer:	Qingdao MicroSense Intelligent Technology Co.,Ltd.
Address of Manufacturer:	Room 803, Floor 8, Building F, InnovationPark Ⅱ, No.1, Keyuan Wei 1st Road, Laoshan District, Qingdao, Shandong, China
Factory:	Qingdao MicroSense Intelligent Technology Co.,Ltd.
Address of Factory:	Room 803, Floor 8, Building F, InnovationPark Ⅱ, No.1, Keyuan Wei 1st Road, Laoshan District, Qingdao, Shandong, China
Equipment Under Test (EUT):	
EUT Name:	3D TOF CAMERA
Model No.:	NYX320, NYX310
Trade Mark:	Vzense
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2026-06-24
Date of Test:	2026-07-17 to 2026-07-22
Date of Issue:	2026-07-28
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Compliance Certification Services (Kunshan) Inc.
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Revision Record			
Version	**Description**	***Date***	***Remark***
00	Original	2026-07-28	/

Authorized for issue by:				
Prepared By		Lee. Li **Lee Li /Project Engineer**		
Approved By		Terry Hou **Terry Hou /Reviewer**		

2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.109(b); Class A	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4-2014	15.109(g); Class A	Pass

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12-24V

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537655

4.3 Measurement Uncertainty & Decision Rule

Measurement Uncertainty:

No.	Item	Measurement Uncertainty (U_{LAB}) *	U_{CISPR}
1	Conducted Emission at mains port using AMN	2.4dB (9kHz to 150kHz)	3.8dB (9kHz to 150kHz)
		2.2dB (150kHz to 30MHz)	3.4dB (150kHz to 30MHz)
2	Conducted Emission at telecommunication port using AAN	4.0 dB (150kHz to 30MHz)	5.0dB (150kHz to 30MHz)
3	Radiated Power	3.2dB	4.5dB (30MHz to 300MHz)
4	Radiated Emission (10m)	4.1 dB	6.3dB (30MHz-1GHz)
5	Radiated Emission (3m)	4.6 dB (30MHz-1GHz)	6.3dB (30MHz-1GHz)
		5.0dB (1GHz-6GHz)	5.2dB (1GHz-6GHz)
		5.2dB (6GHz-18GHz)	5.5dB (6GHz-18GHz)
		5.3dB (18GHz-40GHz)	N/A
6	Radiated disturbance (disturbance current in a LLAS)	2.6dB (9kHz to 30MHz)	3.3dB (9kHz to 30MHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Decision Rule:

• CISPR 16-4-2 for emission measurements is as below described.
Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

U_{LAB} less than U_{CISPR}, therefore:

– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit.

– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

• For immunity testing no decision rule is applicable.

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

• FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No:1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
EMI Test Receiver	R&S	ESCI	KS301196	07/07/2026	07/06/2027
Antenna	TESEQ	CBL 6112D	KUS1806E006	01/19/2026	01/18/2027
Signal Analyzer	R&S	FSV40	KUS1806E003	07/07/2026	07/06/2027
Software	Faratronic	E3 v 3A1	N/A	N/A	N/A

Radiated Emissions (Above 1GHz)					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Spectrum Analyzer	R&S	FSU26	KS301206	12/18/2025	12/17/2026
Preamplifier	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-2	12/17/2025	12/16/2026
Horn-antenna	SCHWARZBECK	BBHA9120D	KS301079	01/11/2026	01/10/2027
Antenna	SCHAFFNER	CBL6143	CZ301091	08/11/2024	08/10/2026
Software	Faratronic	E3 v 3A1	N/A	N/A	N/A

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Digital Pressure Meter	Mengde	DYM3	CZ750023	12/26/2025	12/25/2026
Temperature & Humidity Recorder	JDRK	RS-WS-N01-6J	KSEM024-1 KSEM024-2 KSEM024-3 KSEM024-6 KSEM024-7 KSEM024--8 KSEM024--9	12/26/2025	12/25/2026

6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4-2014

Limit:

	Class A
Test Distance:	3m
30MHz -88MHz	49.5 (dBμV/m) quasi-peak
88MHz-216MHz	54.0 (dBμV/m) quasi-peak
216MHz-960MHz	56.9 (dBμV/m) quasi-peak
960MHz-1000MHz	60.0 (dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

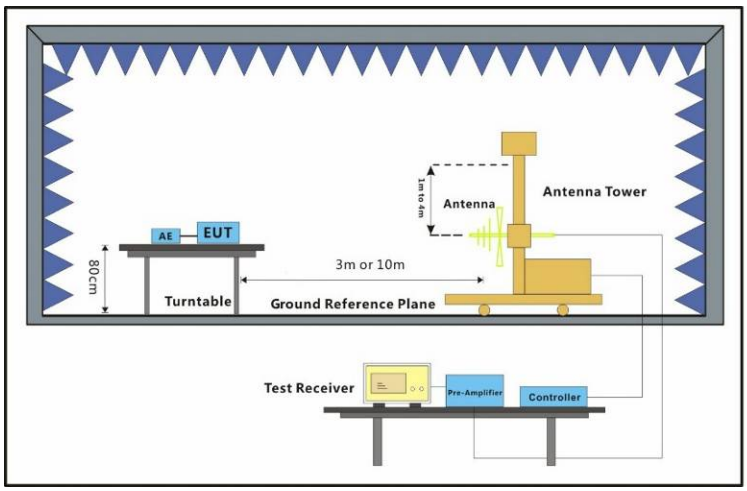
6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 25.2 °C Humidity: 46.5 % RH Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Keep EUT1_(NYX310) working continuously with Auxiliary equipment-DC 24V
Final test	01	Keep EUT2_(NYX320) working continuously with Auxiliary equipment-DC 24V

6.1.3 Test Setup Diagram

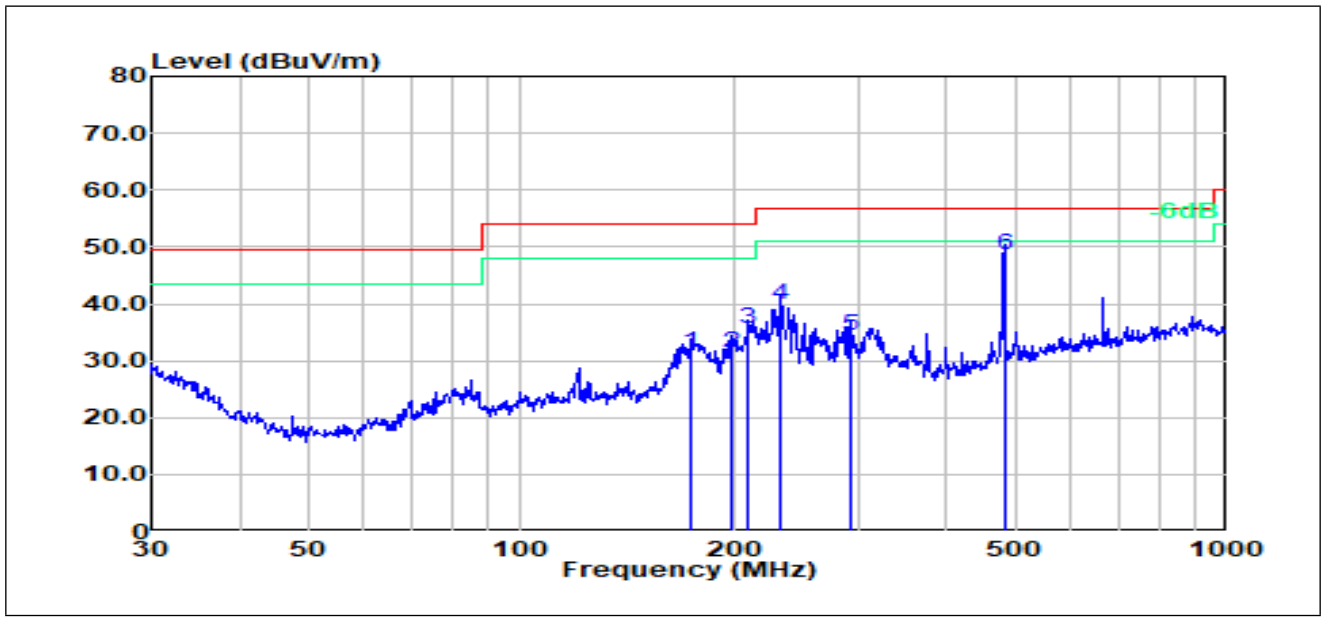


6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

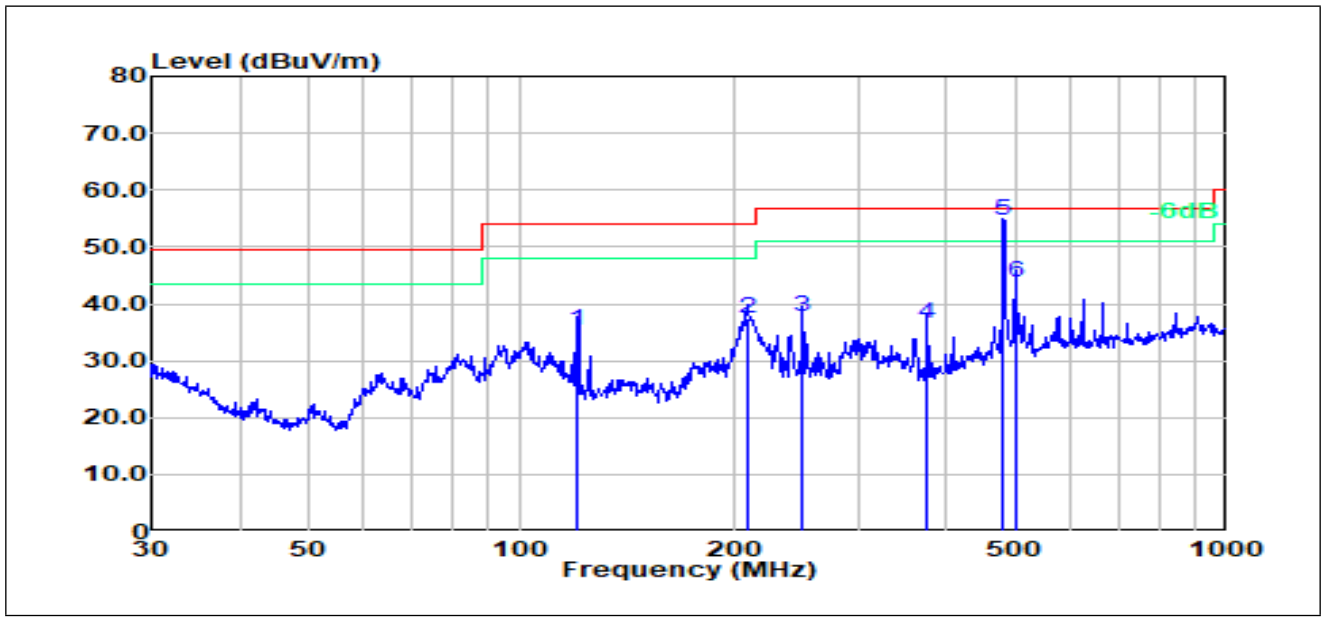
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 00; Polarity: Horizontal



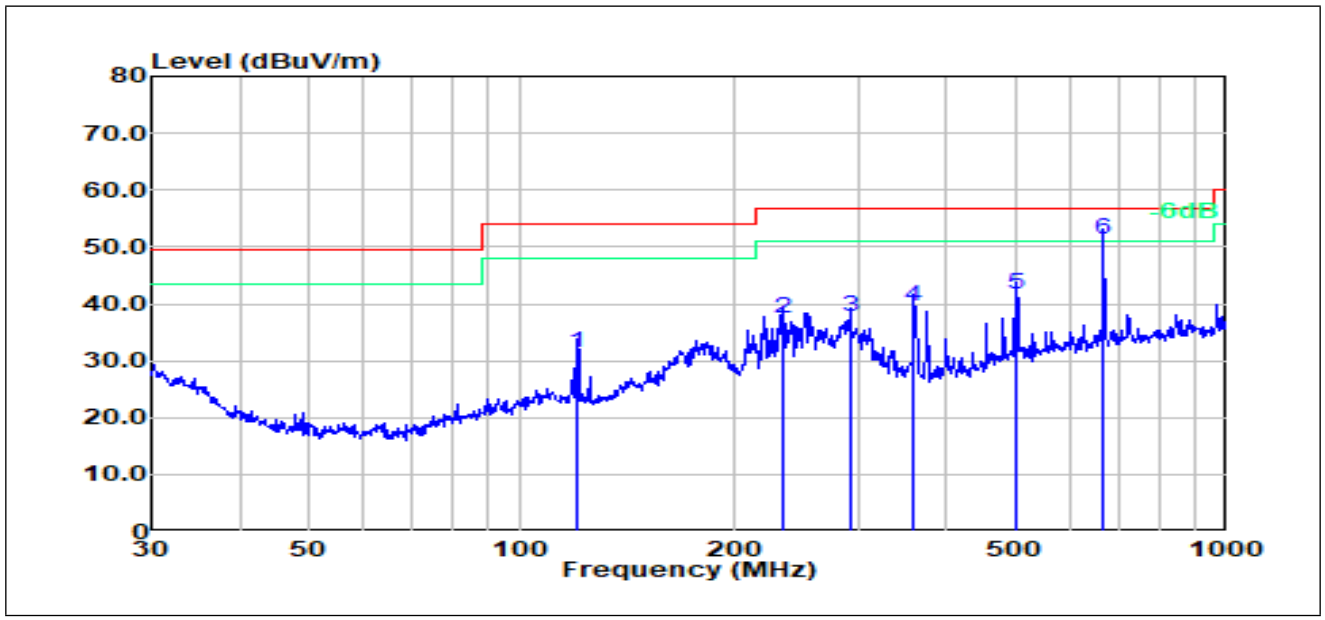
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	174.424	14.13	17.12	31.25	54.00	-22.75	100	329	QP
2	197.893	14.22	17.32	31.54	54.00	-22.46	100	351	QP
3	210.048	17.58	17.98	35.56	54.00	-18.44	100	329	QP
4	233.349	20.90	18.95	39.85	56.90	-17.05	200	289	QP
5	294.114	13.16	21.40	34.56	56.90	-22.34	200	268	QP
6	483.910	22.36	26.20	48.56	56.90	-8.34	100	115	QP

Test Mode: 00; Polarity: Vertical



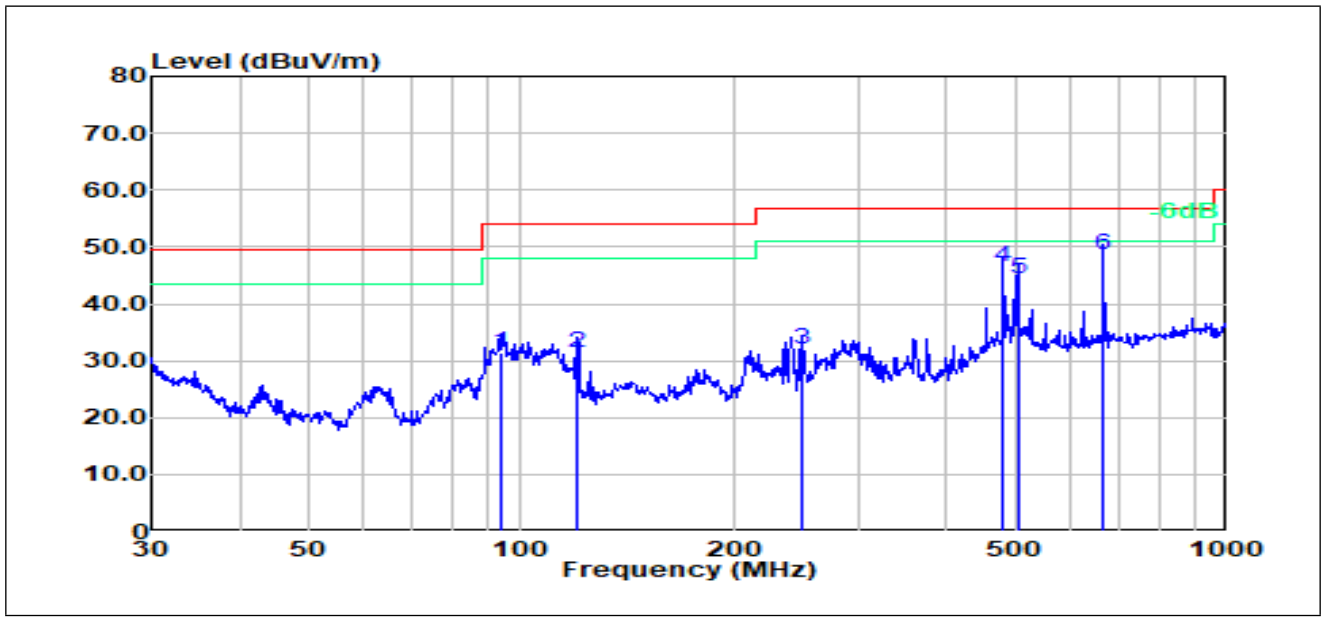
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	120.277	15.08	20.18	35.26	54.00	-18.74	100	163	QP
2	209.313	19.57	17.91	37.48	54.00	-16.52	100	284	QP
3	250.301	17.61	20.24	37.85	56.90	-19.05	100	360	QP
4	375.939	13.90	22.69	36.59	56.90	-20.31	200	40	QP
5	480.528	28.53	25.98	54.51	56.90	-2.39	100	133	QP
6	501.179	16.94	26.71	43.65	56.90	-13.25	100	21	QP

Test Mode: 01; Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	119.856	10.91	20.34	31.25	54.00	-22.75	100	15	QP
2	234.991	18.48	18.97	37.45	56.90	-19.45	100	323	QP
3	292.058	16.50	21.30	37.80	56.90	-19.10	200	311	QP
4	360.448	16.97	22.59	39.56	56.90	-17.34	200	200	QP
5	501.179	14.80	26.71	41.51	56.90	-15.39	100	323	QP
6	665.804	21.89	29.56	51.45	56.90	-5.45	100	0	QP

Test Mode: 01; Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	93.440	13.30	17.95	31.25	54.00	-22.75	100	49	QP
2	120.277	11.27	20.18	31.45	54.00	-22.55	100	180	QP
3	250.301	11.61	20.24	31.85	56.90	-25.05	200	191	QP
4	480.528	20.54	25.98	46.52	56.90	-10.38	100	40	QP
5	504.706	17.75	26.76	44.51	56.90	-12.39	200	58	QP
6	665.804	19.03	29.56	48.59	56.90	-8.31	100	28	QP

6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4-2014

Limit:

	Class A
Above 1GHz	80(dBμV/m) peak, 60(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

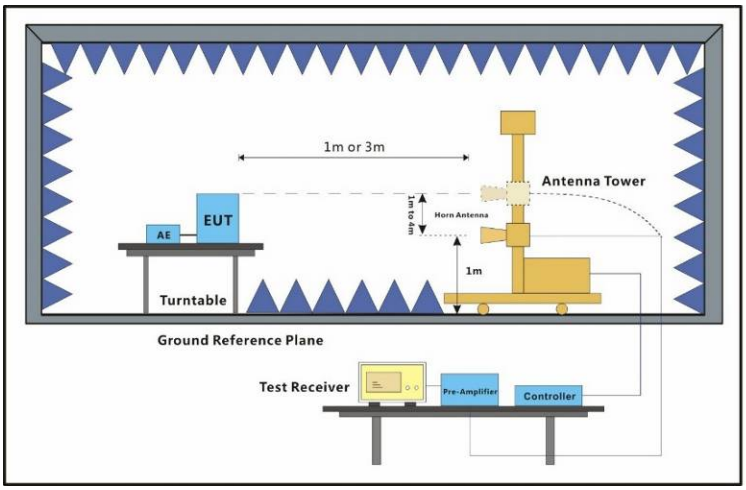
6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 26.5 °C Humidity: 48.3 % RH Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Keep EUT1_(NYX310) working continuously with Auxiliary equipment-DC 24V
Final test	01	Keep EUT2_(NYX320) working continuously with Auxiliary equipment-DC 24V

6.2.3 Test Setup Diagram



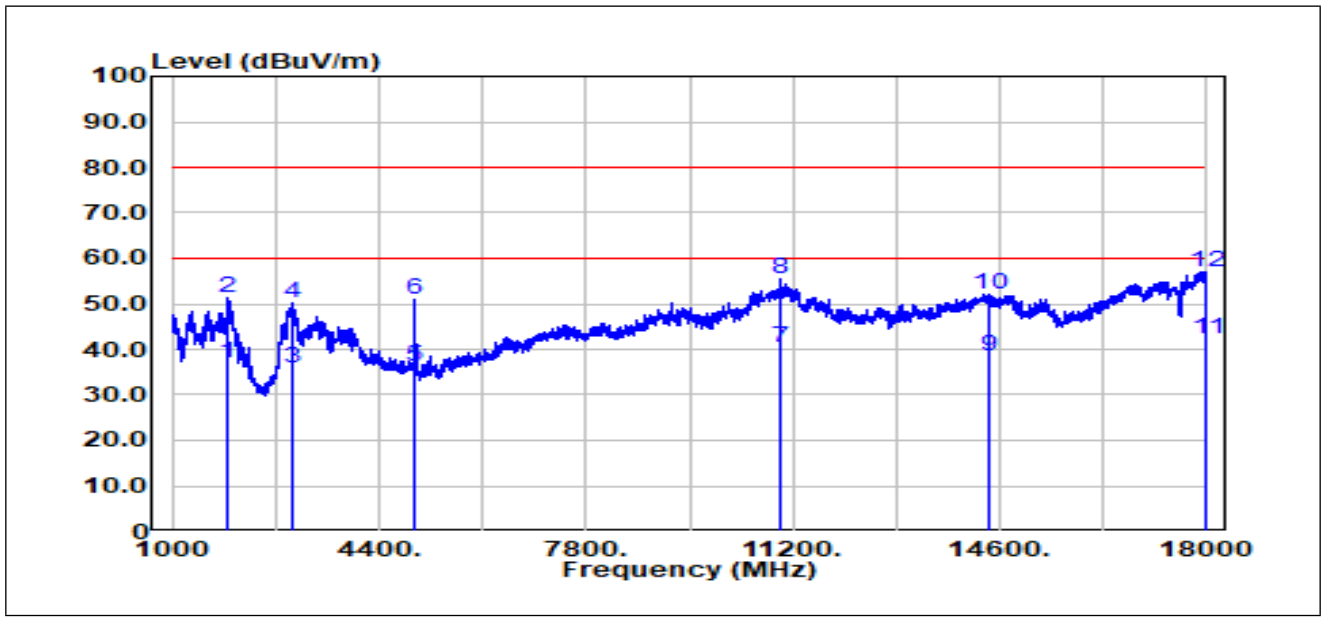
6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

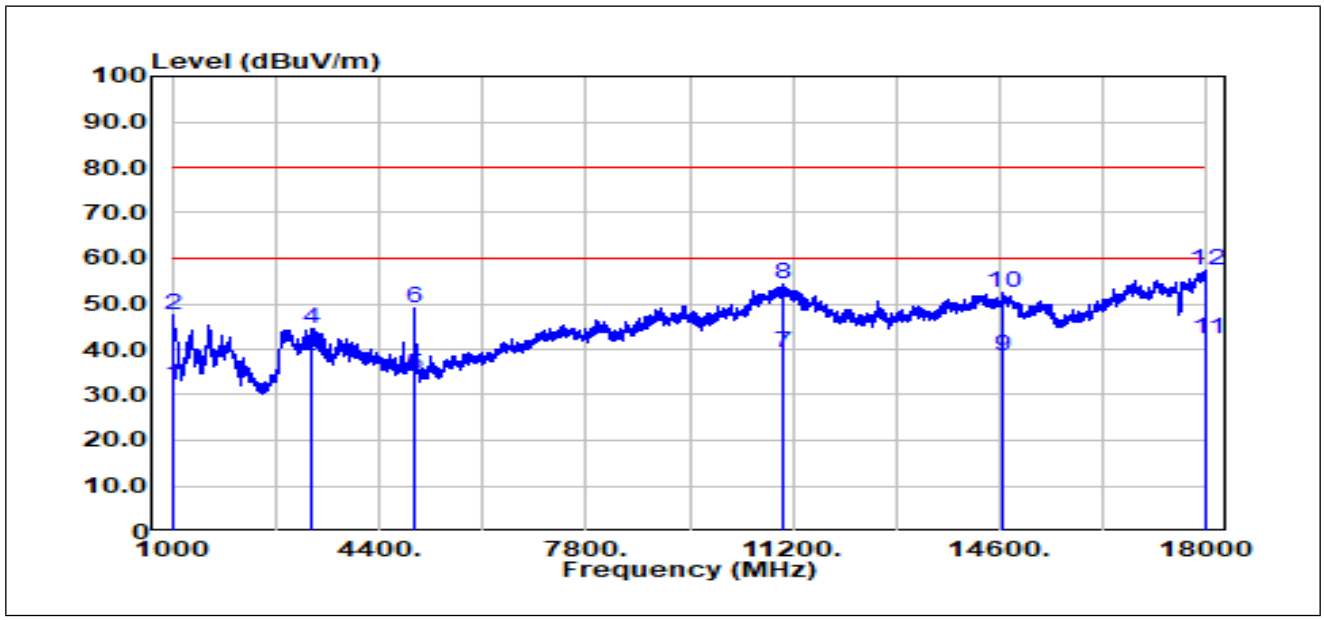
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 00; Polarity: Horizontal



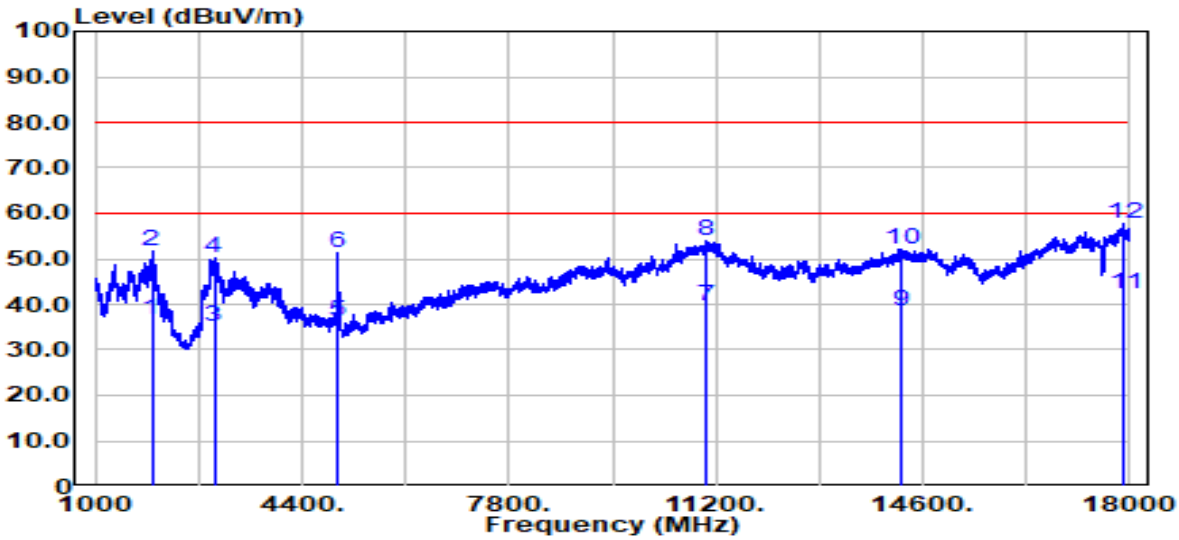
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	1905.25	56.83	-19.88	36.95	60.00	-23.05	200	287	Average
2	1905.25	71.18	-19.88	51.30	80.00	-28.70	200	287	Peak
3	2972.00	51.77	-16.09	35.68	60.00	-24.32	100	207	Average
4	2972.00	66.27	-16.09	50.18	80.00	-29.82	100	207	Peak
5	4978.00	48.68	-12.33	36.35	60.00	-23.65	100	314	Average
6	4978.00	63.41	-12.33	51.08	80.00	-28.92	100	314	Peak
7	10983.25	37.06	3.20	40.26	60.00	-19.74	200	57	Average
8	10983.25	52.11	3.20	55.31	80.00	-24.69	200	57	Peak
9	14438.50	35.85	2.51	38.36	60.00	-21.64	100	263	Average
10	14438.50	49.49	2.51	52.00	80.00	-28.00	100	263	Peak
11	17991.50	31.85	10.51	42.36	60.00	-17.64	100	41	Average
12	17991.50	46.55	10.51	57.06	80.00	-22.94	100	41	Peak

Test Mode: 00; Polarity: Vertical



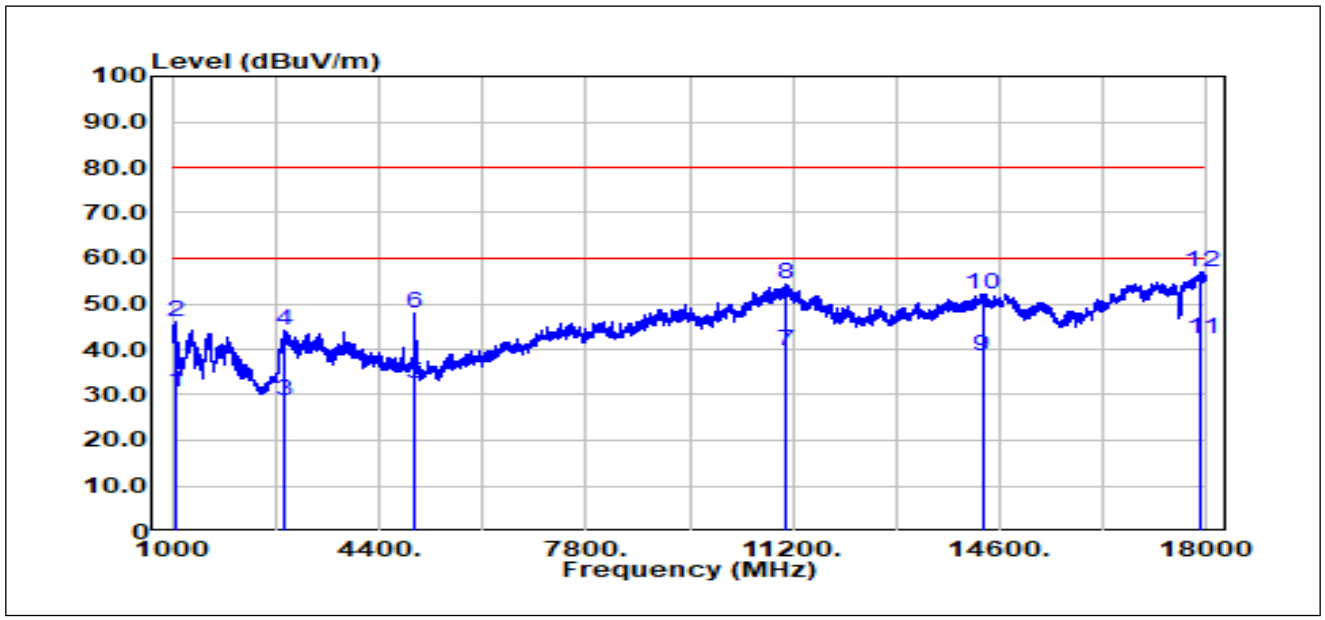
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	1029.75	54.40	-22.14	32.26	60.00	-27.74	200	33	Average
2	1029.75	69.78	-22.14	47.64	80.00	-32.36	200	33	Peak
3	3295.00	54.25	-15.62	38.63	60.00	-21.37	100	76	Average
4	3295.00	60.19	-15.62	44.57	80.00	-35.43	100	76	Peak
5	4978.00	46.59	-12.33	34.26	60.00	-25.74	100	105	Average
6	4978.00	61.47	-12.33	49.14	80.00	-30.86	100	105	Peak
7	11025.75	36.21	3.15	39.36	60.00	-20.64	200	33	Average
8	11025.75	51.30	3.15	54.45	80.00	-25.55	200	33	Peak
9	14638.25	35.60	2.76	38.36	60.00	-21.64	100	324	Average
10	14638.25	49.72	2.76	52.48	80.00	-27.52	100	324	Peak
11	17995.75	31.80	10.56	42.36	60.00	-17.64	100	45	Average
12	17995.75	46.74	10.56	57.30	80.00	-22.70	100	45	Peak

Test Mode: 01; Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	1930.75	56.20	-19.74	36.46	60.00	-23.54	200	293	Average
2	1930.75	71.58	-19.74	51.84	80.00	-28.16	200	293	Peak
3	2955.00	51.39	-16.13	35.26	60.00	-24.74	100	213	Average
4	2955.00	66.27	-16.13	50.14	80.00	-29.86	100	213	Peak
5	4986.50	48.67	-12.32	36.35	60.00	-23.65	100	310	Average
6	4986.50	63.49	-12.32	51.17	80.00	-28.83	100	310	Peak
7	11038.50	36.58	3.10	39.68	60.00	-20.32	200	238	Average
8	11038.50	51.05	3.10	54.15	80.00	-25.85	200	238	Peak
9	14238.75	36.58	1.78	38.36	60.00	-21.64	100	40	Average
10	14238.75	50.33	1.78	52.11	80.00	-27.89	100	40	Peak
11	17910.75	32.92	9.44	42.36	60.00	-17.64	100	171	Average
12	17910.75	48.17	9.44	57.61	80.00	-22.39	100	171	Peak

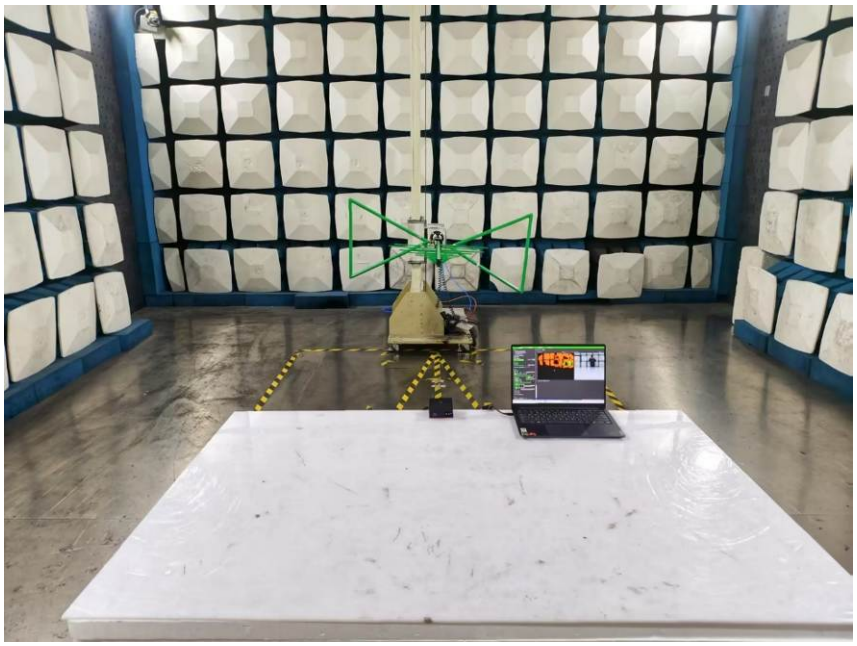
Test Mode: 01; Polarity: Vertical

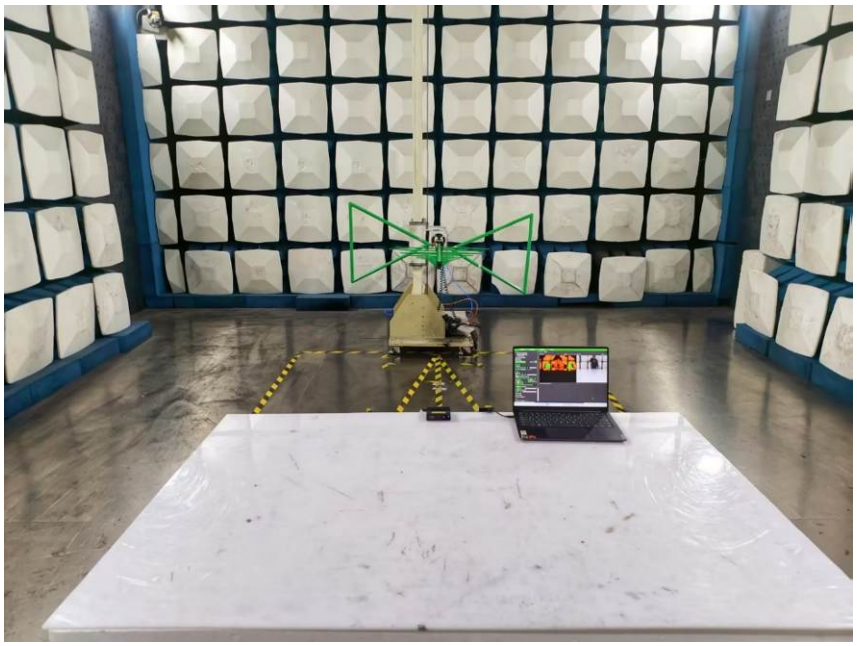


No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	1068.00	52.72	-22.09	30.63	60.00	-29.37	200	33	Average
2	1068.00	68.02	-22.09	45.93	80.00	-34.07	200	33	Peak
3	2844.50	45.01	-16.32	28.69	60.00	-31.31	100	76	Average
4	2844.50	60.64	-16.32	44.32	80.00	-35.68	100	76	Peak
5	4978.00	44.89	-12.33	32.56	60.00	-27.44	100	105	Average
6	4978.00	60.25	-12.33	47.92	80.00	-32.08	100	105	Peak
7	11098.00	36.75	2.81	39.56	60.00	-20.44	200	13	Average
8	11098.00	51.58	2.81	54.39	80.00	-25.61	200	13	Peak
9	14311.00	36.27	2.09	38.36	60.00	-21.64	100	18	Average
10	14311.00	50.03	2.09	52.12	80.00	-27.88	100	18	Peak
11	17902.25	33.03	9.33	42.36	60.00	-17.64	100	216	Average
12	17902.25	47.76	9.33	57.09	80.00	-22.91	100	216	Peak

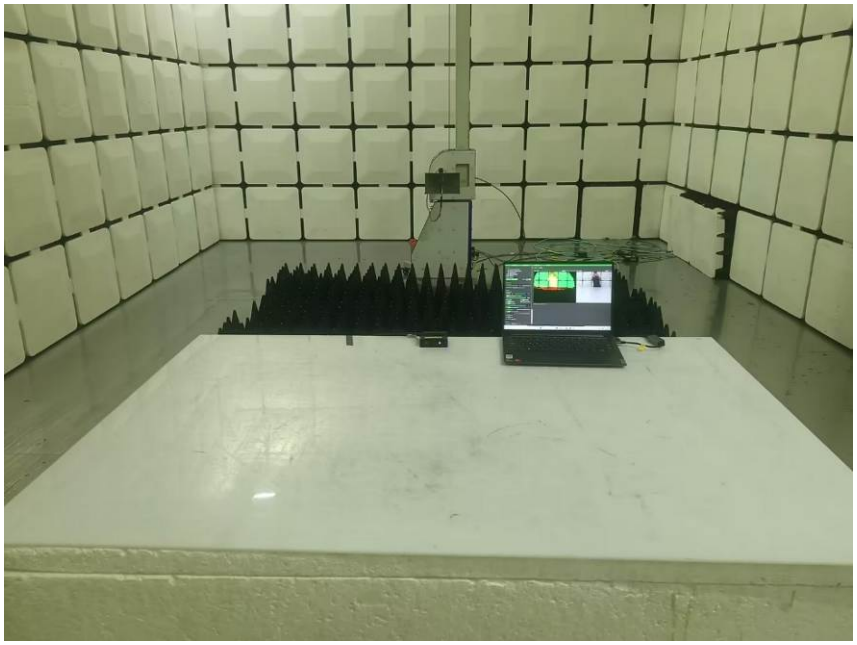
7 Test Setup Photo

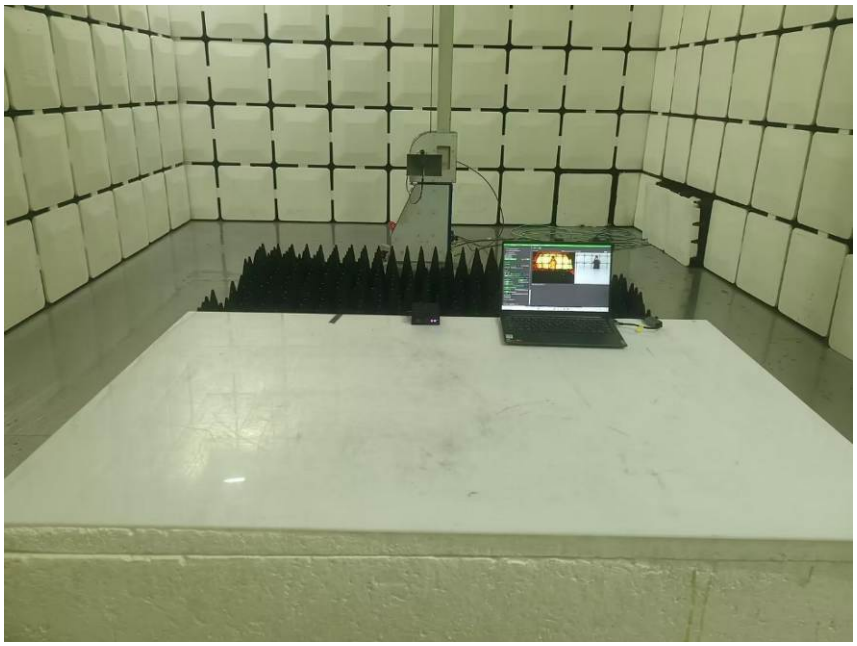
Radiated Emissions (30MHz-1GHz)





Radiated Emissions (Above 1GHz)





8 EUT Constructional Details (EUT Photos)


NYX310
3D TOF CAMERA,FOV 60*45,940nm
SN(序列号): GN3101PCCB2500028
INPUT(输入): 12-24V
Vzense
www.vzense.com
MADE IN CHINA

- End of the Report -