



FCC&ISED EMC Test Report

Project No. : 2404C156
Equipment : Industrial Personal Computer
Brand Name : SINSEGYE
Test Model : SX2
Series Model : SX21, SX20
Applicant : SINSEGYE(Shenzhen) Computer System Co.,Ltd.
Address : 14/F, West Tower, Baidu International Building, No. 8, Haitian 1st Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen
Manufacturer : SINSEGYE(Shenzhen) Computer System Co.,Ltd.
Address : 14/F, West Tower, Baidu International Building, No. 8, Haitian 1st Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen
Date of Receipt : Jul. 08, 2024
Date of Test : Jul. 16, 2024 ~ Aug. 06, 2024
Issued Date : Oct. 23, 2024
Report Version : R00
Test Sample : Engineering Sample No.: DG20240708111
Standard(s) : FCC CFR Title 47, Part 15, Subpart B
ICES-003 Issue 7: October 2020

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FICE-1-2404C156	R00	Original Report.	Oct. 23, 2024	Valid

1. SUMMARY OF TEST RESULTS

Emission		
Standard(s)	Test Item	Result
FCC CFR Title 47, Part 15, Subpart B ANSI C63.4-2014 ICES-003 Issue 7: October 2020 ANSI C63.4-2014 amended as per ANSI C63.4a-2017	AC Power Line Conducted Emissions	N/A
	Radiated Emissions 30 MHz to 1 GHz	PASS
	Radiated Emissions Above 1 GHz	PASS

NOTE:

- (1) "N/A" denotes test is not applicable to this device.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

The BTL measurement uncertainty as below table:

A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)
DG-CB02 (3m)	CISPR	30MHz ~ 200MHz	V	4.34
		30MHz ~ 200MHz	H	3.38
		200MHz ~ 1,000MHz	V	4.80
		200MHz ~ 1,000MHz	H	4.16

Test Site	Method	Measurement Frequency Range	U , (dB)
DG-CB02 (3m)	CISPR	1GHz ~ 6GHz	4.38
		6GHz ~ 18GHz	5.12

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Tested By	Test Date
Radiated emissions 30 MHz to 1 GHz	25°C	46%	Eddie Zhong	Aug. 03, 2024
Radiated emissions above 1 GHz	25°C	46%	Eddie Zhong	Aug. 03, 2024

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Industrial Personal Computer
Brand Name	SINSEGYE
Test Model	SX2
Series Model	SX21, SX20
Model Difference(s)	Only differ in model name.
Identification No. of EUT(S/N)	SX2124010009
Dimensions and mass	210mm*100mm*90mm
Component unit of EUT	<input checked="" type="checkbox"/> Single unit <input type="checkbox"/> Multiple unit
Sample Status	<input type="checkbox"/> Engineering sample <input checked="" type="checkbox"/> Final shipment prototype
Power Source	DC power supply.
Power Rating	DC 24V
Connecting I/O Port(s)	Please refer to EUT photos.
Classification of EUT	Class A
Highest Internal Frequency(Fx)	Exceeds 108MHz

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	FULL SYSTEM

Radiated Emissions 30 MHz to 1 GHz Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

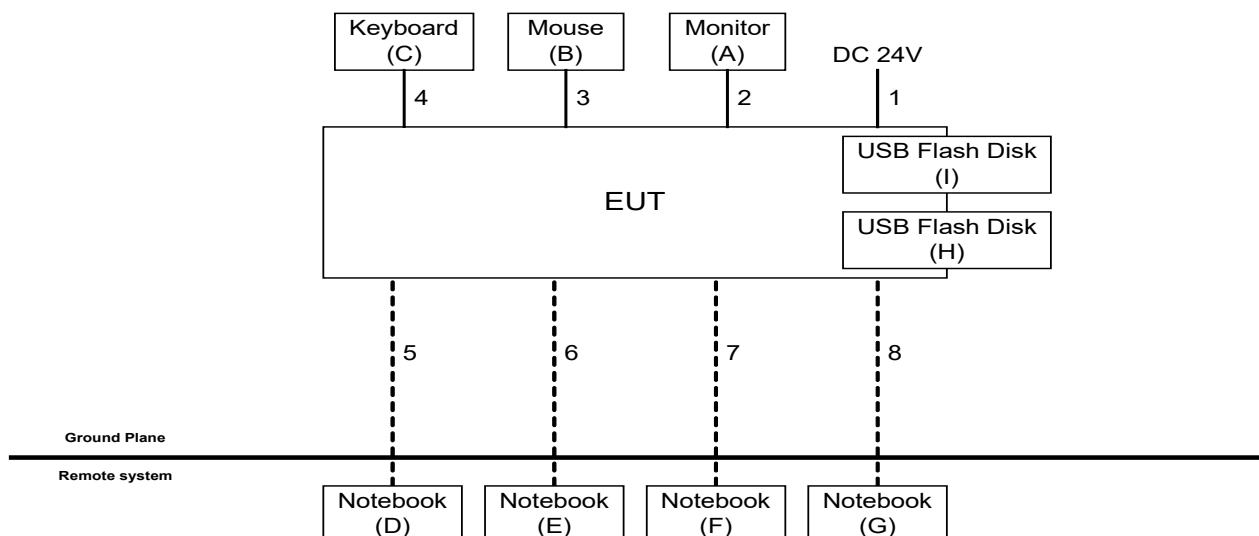
Radiated emissions above 1 GHz Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM

2.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

1. Keyboard and Mouse connected to EUT via USB Cable.
2. EUT connected to Monitor via HDMI Cable.
3. EUT connected to Notebook(D&E&F&G) via RJ45 Cable.
4. USB Flash Disk(H&I) are plugged into the EUT.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Monitor	Lenovo	A18270UX0	VKW39673
	Monitor	DELL	U2718Q	CN-05DWRH-QDC00-7AU-0G0 L-A02
B	Mouse	DELL	MS111-P	CN011D3V71581279OLOT
C	Keyboard	DELL	KB212-B	CN0HTXH97158125004DXA01
D	Notebook	Lenovo	V310-14ISK	LR07GZHC
E	Notebook	Lenovo	V310-14ISK	LR07GZML
F	Notebook	Lenovo	V310-14ISK	LR07GZNB
G	Notebook	Lenovo	V310-14IKB	LR07SH58
H	USB Flash Disk	Kingston	N/A	N/A
I	USB Flash Disk	Kingston	N/A	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1m
2	HDMI Cable	Yes	NO	1.8m
3	USB Cable	Yes	NO	1.8m
4	USB Cable	Yes	NO	1.8m
5-8	RJ45 Cable	Yes	NO	10m

3. EMC EMISSION TEST

3.1 RADIATED EMISSIONS 30 MHZ TO 1 GHZ

3.1.1 LIMIT

Limits For FCC CFR Title 47, Part 15, Subpart B

Frequency (MHz)	Class A (at 3m)	
	($\mu\text{V/m}$) Quasi-peak	(dB $\mu\text{V/m}$) Quasi-peak
30 - 88	90	49
88 - 216	150	53.5
216 - 960	210	56.4
960 - 1000	300	59.5

Limits For ICES-003 Issue 7: October 2020

Frequency (MHz)	Class A (at 3m)
	(dB $\mu\text{V/m}$) Quasi-peak
30 - 88	50.0
88 - 216	54.0
216 - 230	56.9
230 - 960	57.0
960 - 1000	60.0

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dB $\mu\text{V/m}$) = $20\log$ Emission level ($\mu\text{V/m}$).
3m Emission level = 10m Emission level + $20\log(10\text{m}/3\text{m})$.
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Amplifier	EMC INSTRUMENT	EMC001330	980989	May 31, 2025
2	Cable	RW	LMR-400(30MHz-1GHz)(10m+2.5m+0.8M)	N/A	May 06, 2025
3	Controller	MF	MF-7802BS	N/A	N/A
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024
6	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	1706	May 24, 2025
7	Attenuator	HUBER+SUHNER	6806_N-50-1	N/A	May 24, 2025

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.

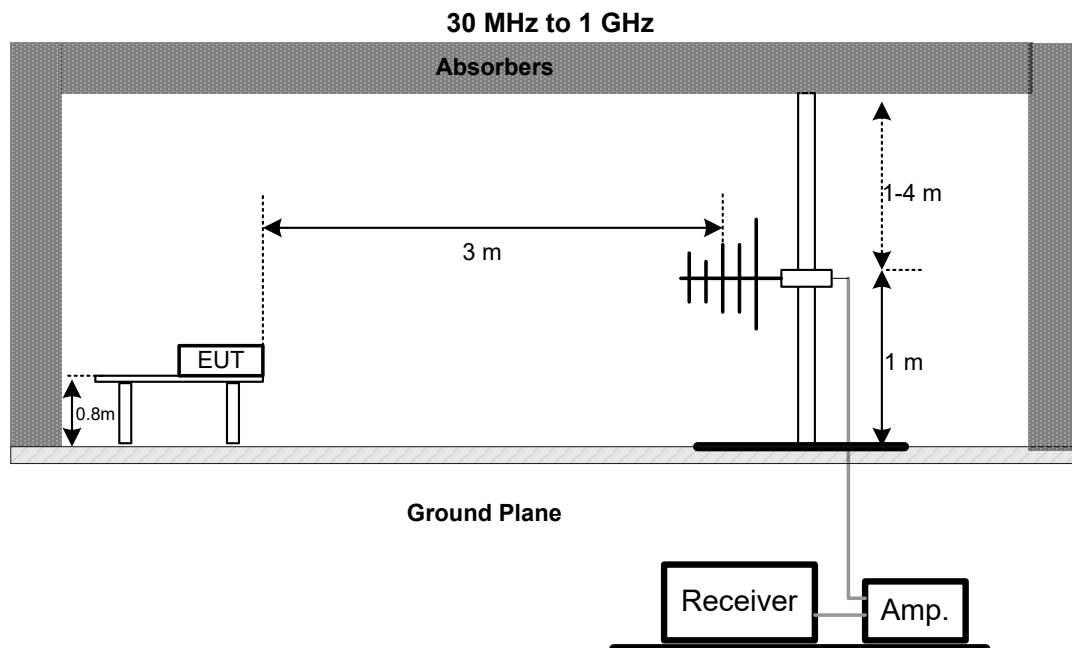
3.1.3 TEST PROCEDURE

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP



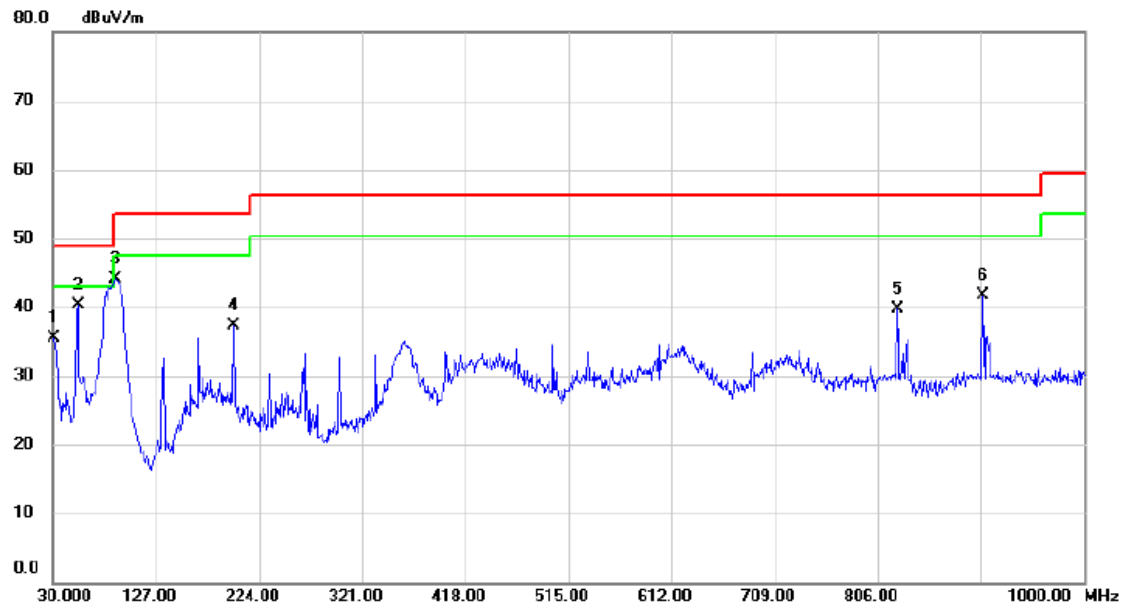
3.2.6 TEST RESULTS

Remark:

- (1) Measuring frequency range from 30 MHz to 1000 MHz
- (2) If the peak scan value lower limit more than 20 dB, then this signal data does not show in table.

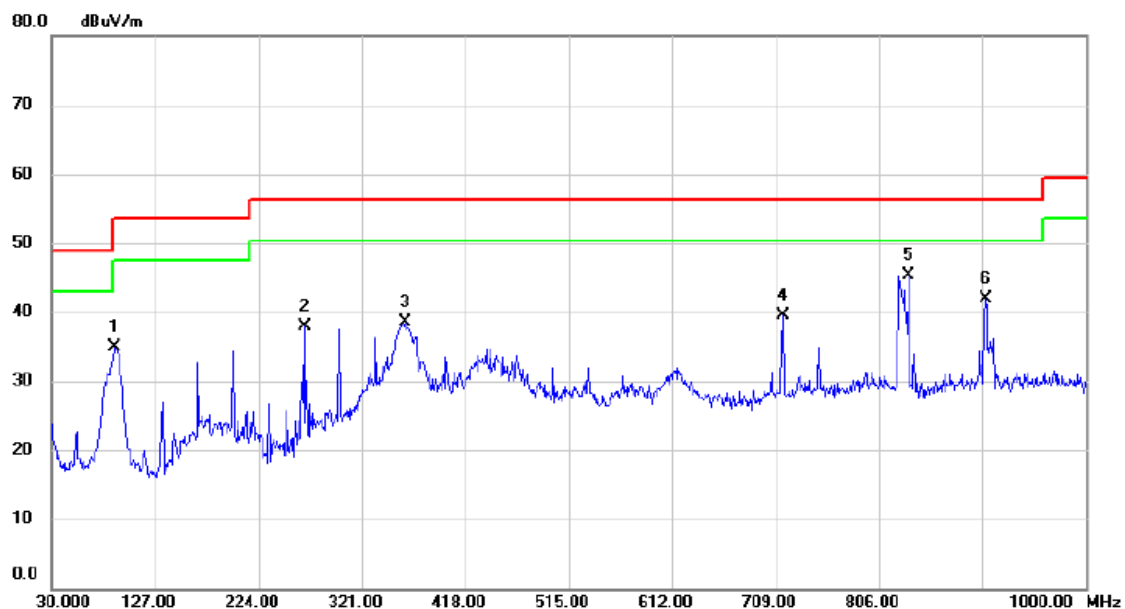
For FCC CFR Title 47, Part 15, Subpart B

Test Voltage	DC 24V	Polarization	Vertical
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.0000	48.81	-13.24	35.57	49.00	-13.43	QP	
2	*	53.2800	52.03	-11.73	40.30	49.00	-8.70	QP	
3		89.1700	61.46	-17.27	44.19	53.50	-9.31	QP	
4		199.7500	52.04	-14.66	37.38	53.50	-16.12	QP	
5		824.4300	40.39	-0.61	39.78	56.40	-16.62	QP	
6		904.9400	41.02	0.74	41.76	56.40	-14.64	QP	

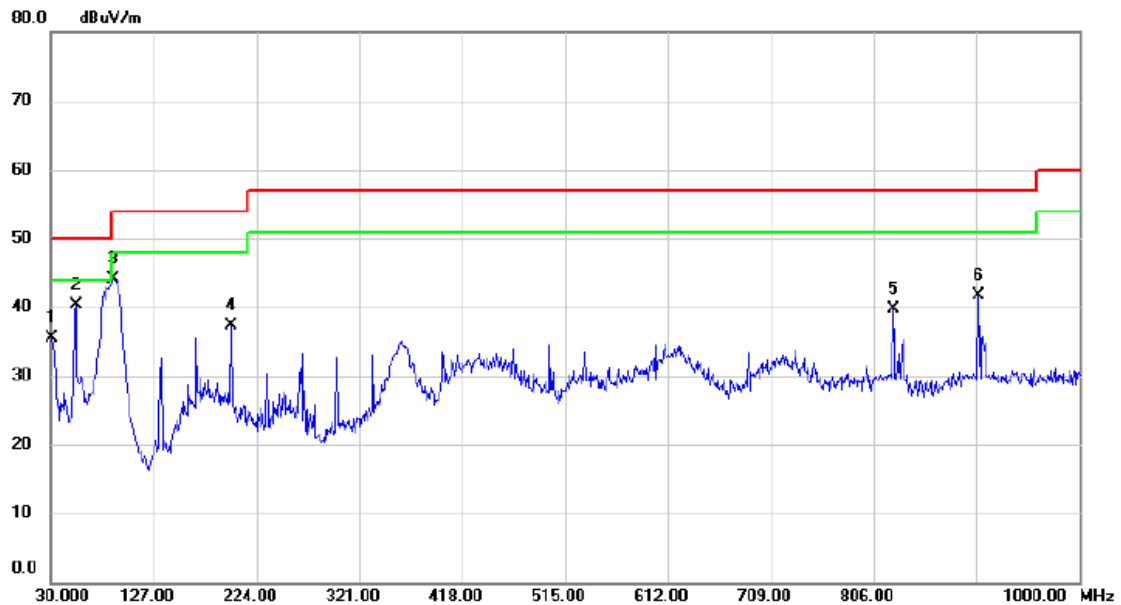
Test Voltage	DC 24V	Polarization	Horizontal
Test Mode	Mode 1		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	89.1700	52.14	-17.27	34.87	53.50	-18.63	QP	
2	266.6800	50.10	-12.10	38.00	56.40	-18.40	QP	
3	361.7400	48.01	-9.54	38.47	56.40	-17.93	QP	
4	715.7900	41.65	-2.08	39.57	56.40	-16.83	QP	
5 *	834.1300	45.93	-0.61	45.32	56.40	-11.08	QP	
6	905.9100	41.20	0.75	41.95	56.40	-14.45	QP	

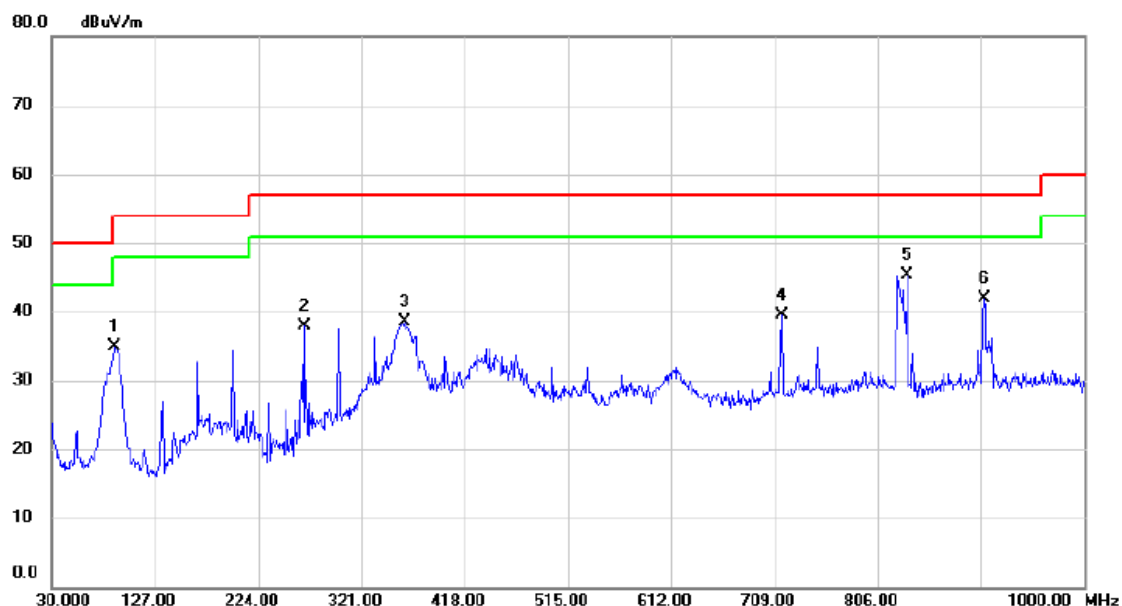
For ICES-003 Issue 7: October 2020:

Test Voltage	DC 24V	Polarization	Vertical
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		30.0000	48.81	-13.24	35.57	50.00	-14.43	QP	
2	*	53.2800	52.03	-11.73	40.30	50.00	-9.70	QP	
3		89.1700	61.46	-17.27	44.19	54.00	-9.81	QP	
4		199.7500	52.04	-14.66	37.38	54.00	-16.62	QP	
5		824.4300	40.39	-0.61	39.78	57.00	-17.22	QP	
6		904.9400	41.02	0.74	41.76	57.00	-15.24	QP	

Test Voltage	DC 24V	Polarization	Horizontal
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		89.1700	52.14	-17.27	34.87	54.00	-19.13	QP	
2		266.6800	50.10	-12.10	38.00	57.00	-19.00	QP	
3		361.7400	48.01	-9.54	38.47	57.00	-18.53	QP	
4		715.7900	41.65	-2.08	39.57	57.00	-17.43	QP	
5	*	834.1300	45.93	-0.61	45.32	57.00	-11.68	QP	
6		905.9100	41.20	0.75	41.95	57.00	-15.05	QP	

3.2 RADIATED EMISSIONS ABOVE 1 GHZ

3.2.1 LIMIT

Frequency (MHz)	Class A	
	(dBuV/m) (at 3m)	
	Peak	Average
Above 1000	80	60

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest internal frequency (F _x)	Highest measurement frequency (F _M)
F _x ≤ 108 MHz	1 GHz
108 MHz < F _x ≤ 500 MHz	2 GHz
500 MHz < F _x ≤ 1 GHz	5 GHz
F _x > 1 GHz	5 x F _x up to a maximum of 40 GHz
Note: F _x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m) = 20log Emission level (uV/m).
1m Emission level = 3m Emission level + 20log(3m/1m).
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 13, 2025
2	Amplifier	EMC INSTRUMENT	EMC118A45SE	9801002	May 31, 2025
3	Cable	mitron	RWLP50-4.0A-KJ-SMS M-12	N/A	May 15, 2025
4	Cable	RW	RWLP50-4.0A-NMRAS MRA-1.0M	N/A	May 15, 2025
5	Controller	MF	MF-7802BS	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.

3.2.3 TEST PROCEDURE

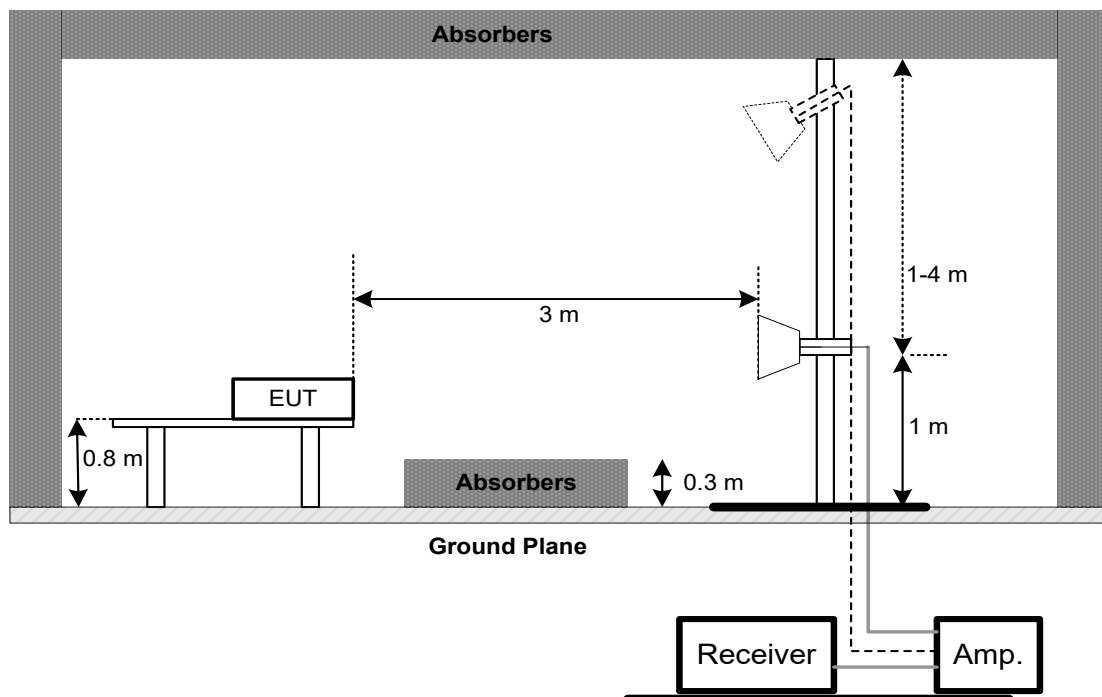
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then AVG detector mode re-measured.
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.
- For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP

Above 1 GHz

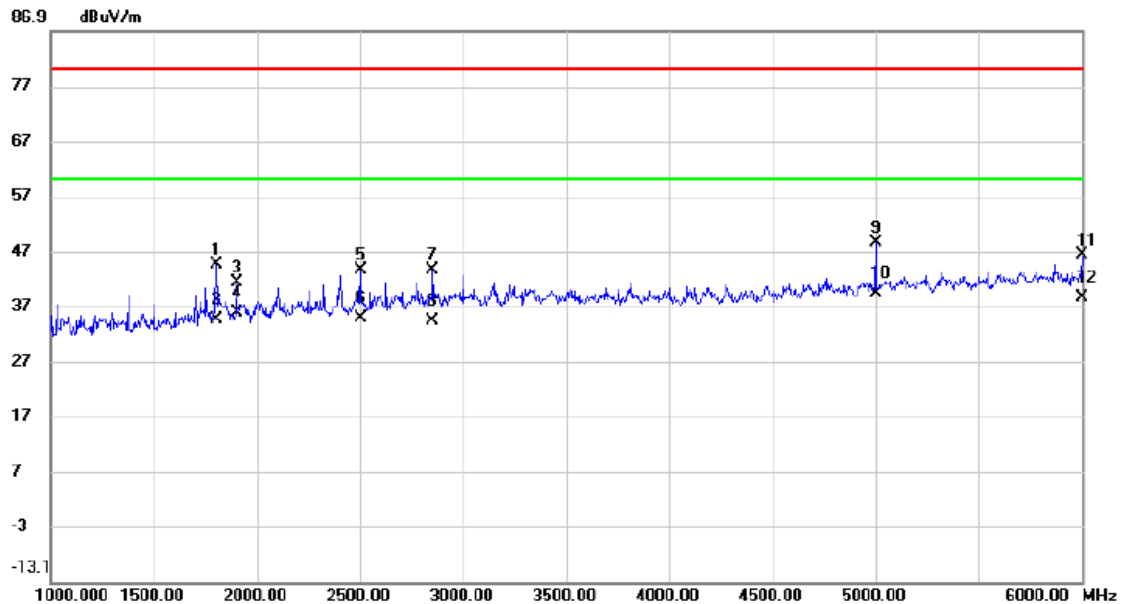


3.2.6 TEST RESULTS

Remark:

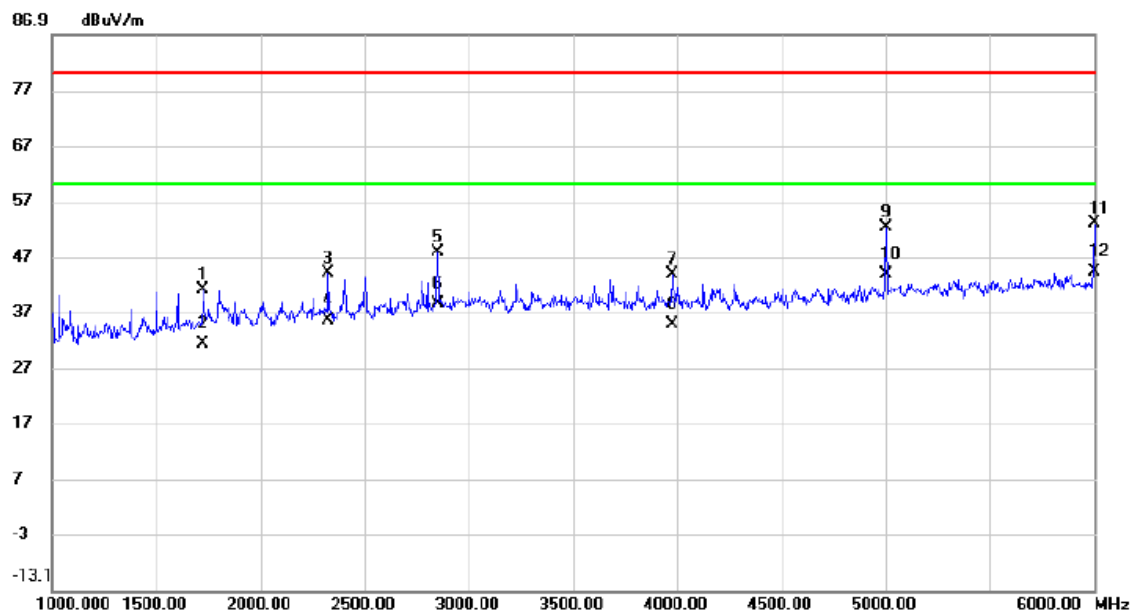
- (1) Radiated emissions measured in frequency range above 1000 MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (2) Data of measurement within this frequency range shown “*” in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- (3) A preamp was used for this test in order to provide sufficient measurement sensitivity.

Test Voltage	DC 24V	Polarization	Vertical
Test Mode	Mode 1		



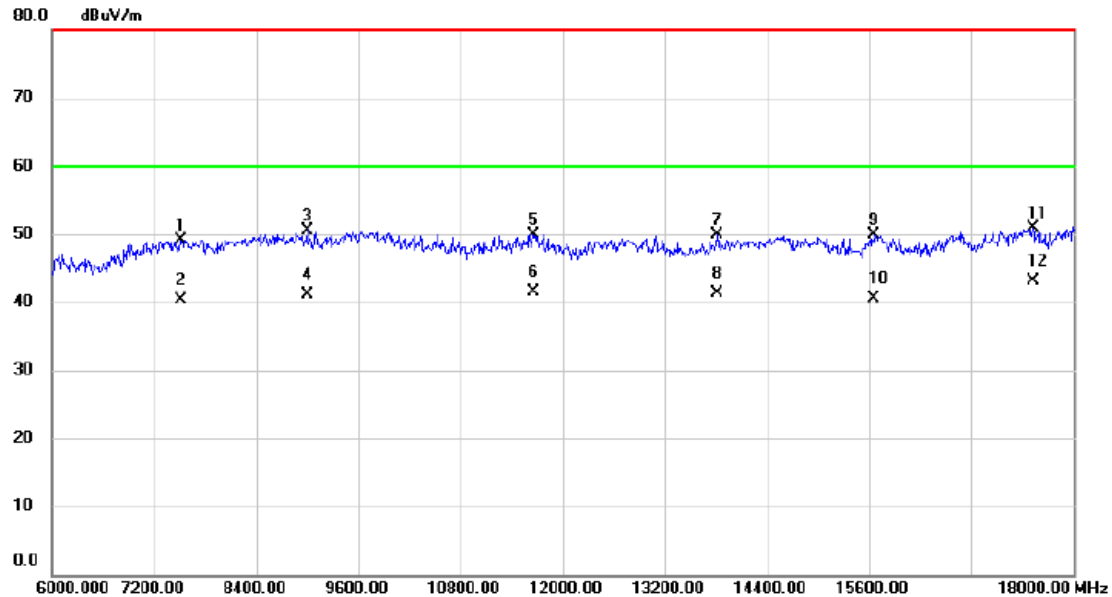
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		1800.000	46.97	-2.56	44.41	80.00	-35.59	peak	
2		1800.000	37.15	-2.56	34.59	60.00	-25.41	AVG	
3		1900.000	43.29	-1.89	41.40	80.00	-38.60	peak	
4		1900.000	37.69	-1.89	35.80	60.00	-24.20	AVG	
5		2500.000	43.34	0.22	43.56	80.00	-36.44	peak	
6		2500.000	34.55	0.22	34.77	60.00	-25.23	AVG	
7		2850.000	41.98	1.44	43.42	80.00	-36.58	peak	
8		2850.000	32.91	1.44	34.35	60.00	-25.65	AVG	
9		5000.000	42.30	6.12	48.42	80.00	-31.58	peak	
10	*	5000.000	33.19	6.12	39.31	60.00	-20.69	AVG	
11		6000.000	37.55	8.77	46.32	80.00	-33.68	peak	
12		6000.000	29.77	8.77	38.54	60.00	-21.46	AVG	

Test Voltage	DC 24V	Polarization	Horizontal
Test Mode	Mode 1		



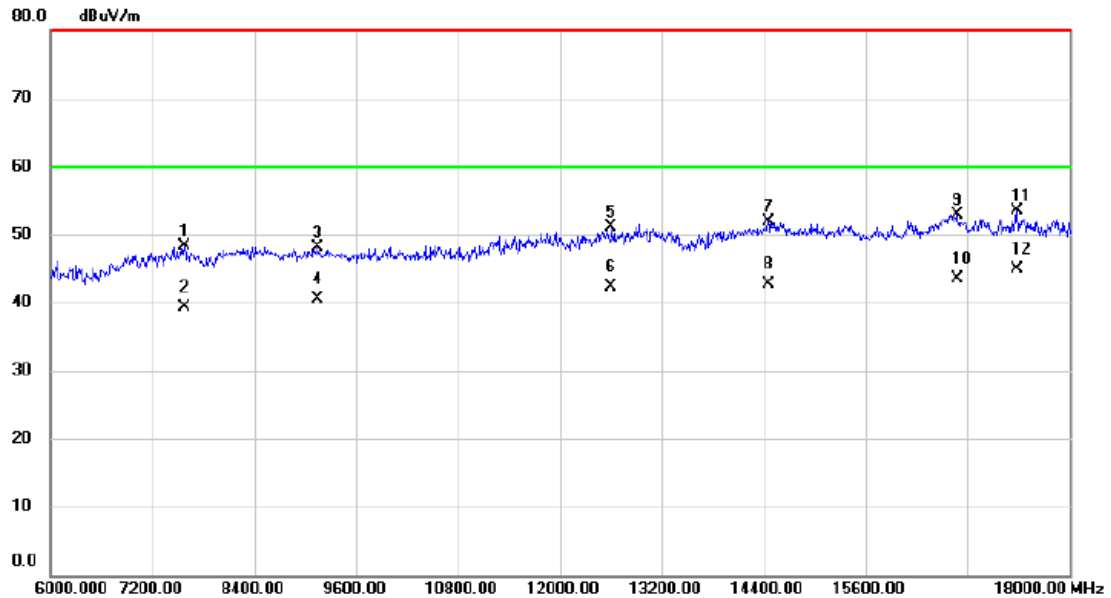
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1725.000	43.97	-3.04	40.93	80.00	-39.07	peak	
2		1725.000	34.28	-3.04	31.24	60.00	-28.76	AVG	
3		2325.000	44.25	-0.28	43.97	80.00	-36.03	peak	
4		2325.000	35.91	-0.28	35.63	60.00	-24.37	AVG	
5		2850.000	46.44	1.44	47.88	80.00	-32.12	peak	
6		2850.000	37.02	1.44	38.46	60.00	-21.54	AVG	
7		3975.000	40.28	3.42	43.70	80.00	-36.30	peak	
8		3975.000	31.44	3.42	34.86	60.00	-25.14	AVG	
9		5000.000	46.18	6.12	52.30	80.00	-27.70	peak	
10		5000.000	37.59	6.12	43.71	60.00	-16.29	AVG	
11		6000.000	44.14	8.77	52.91	80.00	-27.09	peak	
12	*	6000.000	35.44	8.77	44.21	60.00	-15.79	AVG	

Test Voltage	DC 24V	Polarization	Vertical
Test Mode	Mode 1		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7518.000	38.10	11.04	49.14	80.00	-30.86	peak	
2		7518.000	29.25	11.04	40.29	60.00	-19.71	AVG	
3		8994.000	39.69	10.91	50.60	80.00	-29.40	peak	
4		8994.000	30.29	10.91	41.20	60.00	-18.80	AVG	
5		11658.00	37.65	12.19	49.84	80.00	-30.16	peak	
6		11658.00	29.33	12.19	41.52	60.00	-18.48	AVG	
7		13818.00	39.04	10.95	49.99	80.00	-30.01	peak	
8		13818.00	30.44	10.95	41.39	60.00	-18.61	AVG	
9		15660.00	40.92	8.98	49.90	80.00	-30.10	peak	
10		15660.00	31.59	8.98	40.57	60.00	-19.43	AVG	
11		17520.00	37.53	13.42	50.95	80.00	-29.05	peak	
12	*	17520.00	29.67	13.42	43.09	60.00	-16.91	AVG	

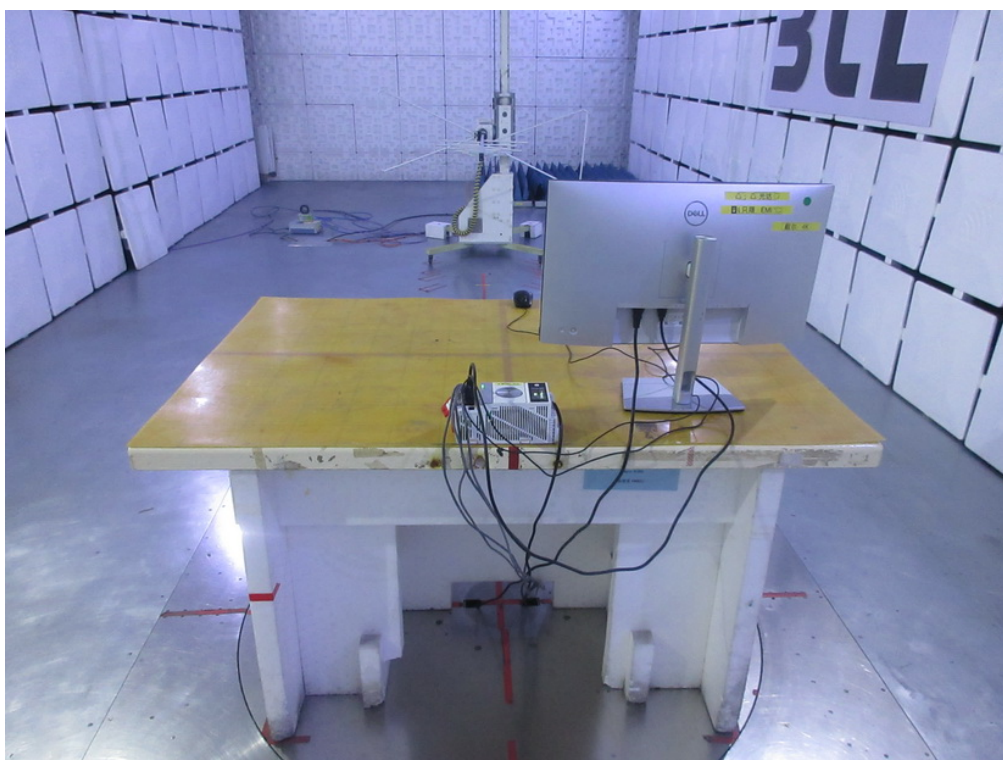
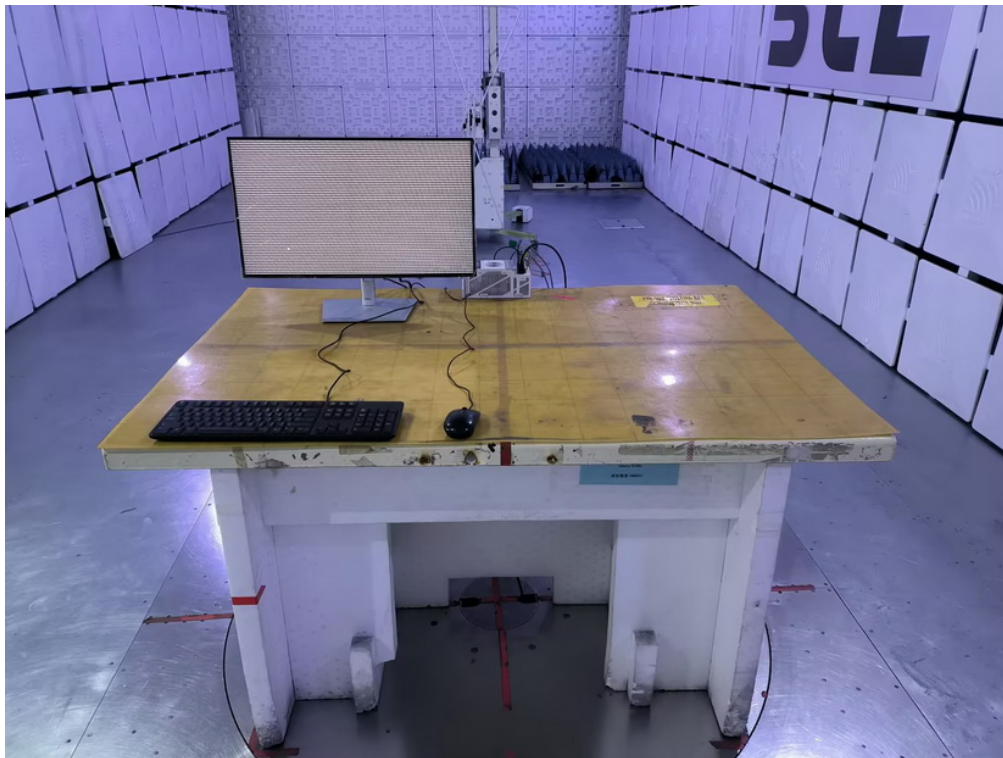
Test Voltage	DC 24V	Polarization	Horizontal
Test Mode	Mode 1		



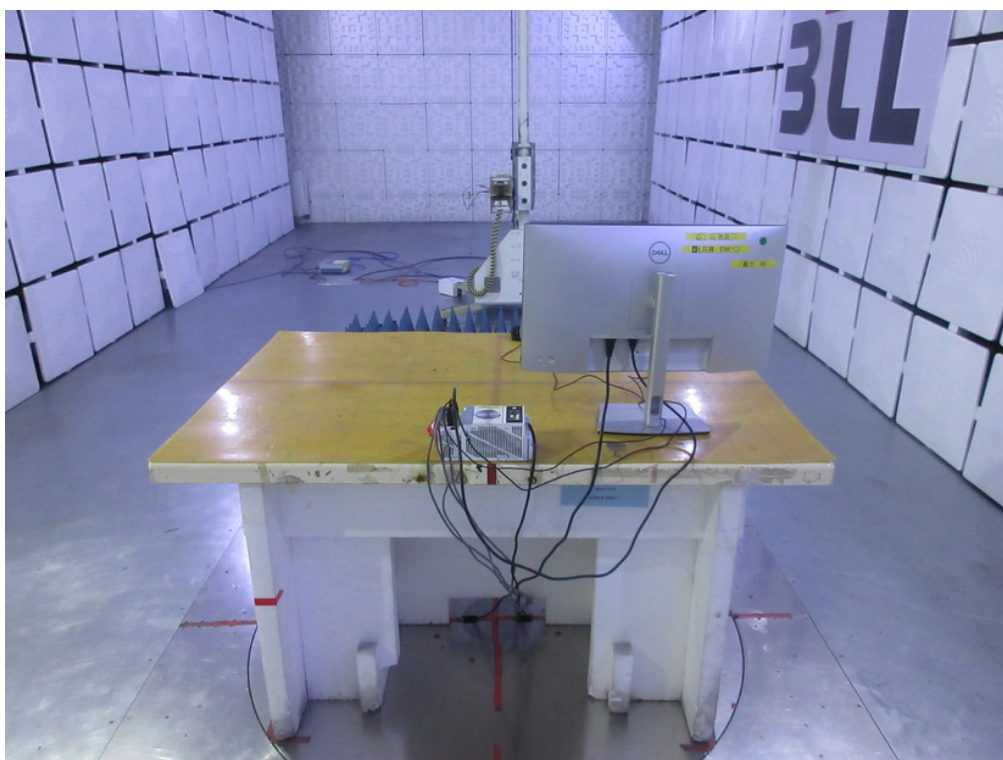
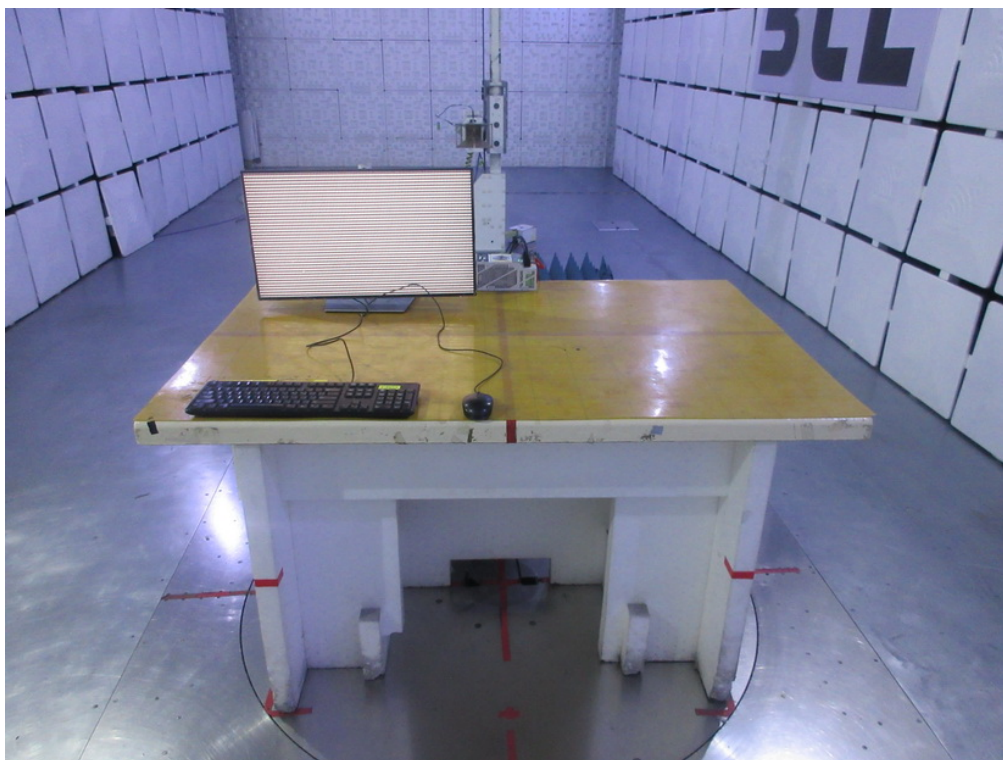
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7572.000	37.35	10.97	48.32	80.00	-31.68	peak	
2		7572.000	28.33	10.97	39.30	60.00	-20.70	AVG	
3		9150.000	37.10	10.97	48.07	80.00	-31.93	peak	
4		9150.000	29.45	10.97	40.42	60.00	-19.58	AVG	
5		12606.00	39.35	11.74	51.09	80.00	-28.91	peak	
6		12606.00	30.66	11.74	42.40	60.00	-17.60	AVG	
7		14454.00	39.26	12.56	51.82	80.00	-28.18	peak	
8		14454.00	30.15	12.56	42.71	60.00	-17.29	AVG	
9		16674.00	40.86	11.97	52.83	80.00	-27.17	peak	
10		16674.00	31.49	11.97	43.46	60.00	-16.54	AVG	
11		17376.00	40.17	13.36	53.53	80.00	-26.47	peak	
12	*	17376.00	31.57	13.36	44.93	60.00	-15.07	AVG	

4. EUT TEST PHOTO

Radiated Emissions 30 MHz to 1 GHz



Radiated Emissions Above 1 GHz



End of Test Report