TEST REPORT

Reference No.	:	WTD25D03072732W001
FCC ID	:	2BHP6-GS27
Applicant	:	SM TEK GROUP INC
Address	:	132 32ND ST STE #402 BROOKLYN NY 11232 United States
Manufacturer	:	SM TEK GROUP INC
Address	:	132 32ND ST STE #402 BROOKLYN NY 11232 United States
Product	:	3in1 MagCharge
Model(s)	:	WM-GS27-WH, WM-GS27-BK, WM-GS27-GY, WM-GS27-RG, GS27-BK, GS27-WH, GS27-GY, GS27-RG
Standards	:	47CFR FCC Part 18
Date of Receipt sample	:	2025-06-27
Date of Test	:	2025-07-10 to 2025-07-16
Date of Issue	:	2025-07-24
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:
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Compiled by:

Estel Qian / Project Engineer

Approved by:

Deval Qin / Designated Reviewer

1 Contents

2 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D03072732W001	2025-06-27	2025-07-10 to 2025-07-16	2025-07-24	Original	-	Valid

3 General Information

3.1 General Description of E.U.T.

Product	:	3in1 MagCharge
Model(s)	:	WM-GS27-WH, WM-GS27-BK, WM-GS27-GY, WM-GS27-RG, GS27-BK, GS27-WH, GS27-GY, GS27-RG
Model Description	:	Only the model names are different.
Remark	:	Model WM-GS27-WH was tested in the report.

3.2 Details of E.U.T.

Operation Frequency	:	115-325kHz
Type of Modulation	:	Load modulation
Ratings	:	Input: DC 9V/12V 3A (MAX) Phone: 15W(MAX) iWatch: 2.5W(MAX) Earbuds: 3.5W(MAX)
Adapter	:	Model: XGB-P201U Input: 100-240V~ 50/60Hz 0.6A Max Output: 5.0V⎓3.0A, 9.0V⎓2.22A, 12.0V⎓1.67A (20.0W) Manufacturer: Shenzhen XGpower Electronic Technology Co.,Ltd

3.3 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab:N/A

Lab address:N/A

Test items: N/A

3.4 Abnormalities from Standard Conditions

None.

3.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

3.6 Test Mode

Test Mode	Descriptions
Standby mode	EUT alone powered by AC/DC adapter
iWatch charge	iWatch only (The battery capacity is less than 5%)
AirPods charge	AirPods only (The battery capacity is less than 5%)
iPhone charge	iPhone only (The battery capacity is less than 5%)
3 in 1 charge	iWatch+ AirPods+ iPhone charge together (The battery capacity is less than 5%)

Note: EUT was investigated with client device under normal charging condition as above then worst value was only report.

4 Test Summary

Test Item	Test Requirement	Test Result
AC Power Line Conducted Emission	47CFR FCC Part 18	Pass
Radiated Emission	47CFR FCC Part 18	Pass

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement

N/A Test case does not apply to the test object

5 Equipment Used during Test

5.1 Equipment List

Conducted emissions from the AC mains power ports						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Last Calibration Date**	**Calibration Due Date**
1	EMI Test Receiver	R&S	ESCI	100947	2024-07-18	2025-07-17
2	LISN	R&S	ENV216	100115	2024-07-18	2025-07-17
3	Cable	Top	TYPE16(3.5M)	-	2024-07-18	2025-07-17
3m Semi-anechoic Chamber for Radiation(TDK)						
Item	**Equipment**	**Manufacturer**	**Model No.**	**Serial No**	**Last Calibration Date**	**Calibration Due Date**
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2024-11-04	2025-11-03
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
iPhone	Apple	MQ8T2LL/A	/
iWatch	Apple	A1758	/
Wireless Charging Case	Apple	A2083	/

5.3 Measurement Uncertainty

Parameter	Uncertainty (Note 1)
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emission (150kHz-30MHz)	±3.64dB
Radiated Emission_3m (30MHz-1000MHz)	±4.53 dB
Radiated Emission_10m (30MHz-1000MHz)	±5.24 dB
Radiated Emission(1GHz~18GHz)	±5.03dB

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

6 Emission Test Results

6.1 AC Power Line ConductedEmission

Test Requirement..... : FCC Part 18

Test Method..... : FCC OST/MP-5

Test Result ..... : Pass

Limit ..... : 47CFR FCC part 18 §18.307

☐All induction cooking ranges and ultrasonic equipment:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.009-0.05	110	---
0.05-0.15	90-80*	---
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

☒All other part 18 consumer devices:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

☐ RF lighting devices:

Frequency range (MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN(uV)
Non-consumer equipment	
0.45-1.6	1000
1.6-30	3000
Consumer equipment	
0.45-2.51	250
2.51-3.0	3000
3.0-30	250

6.1.1 E.U.T. Operation

Operating Environment:

Temperature ..... : 25.3°C

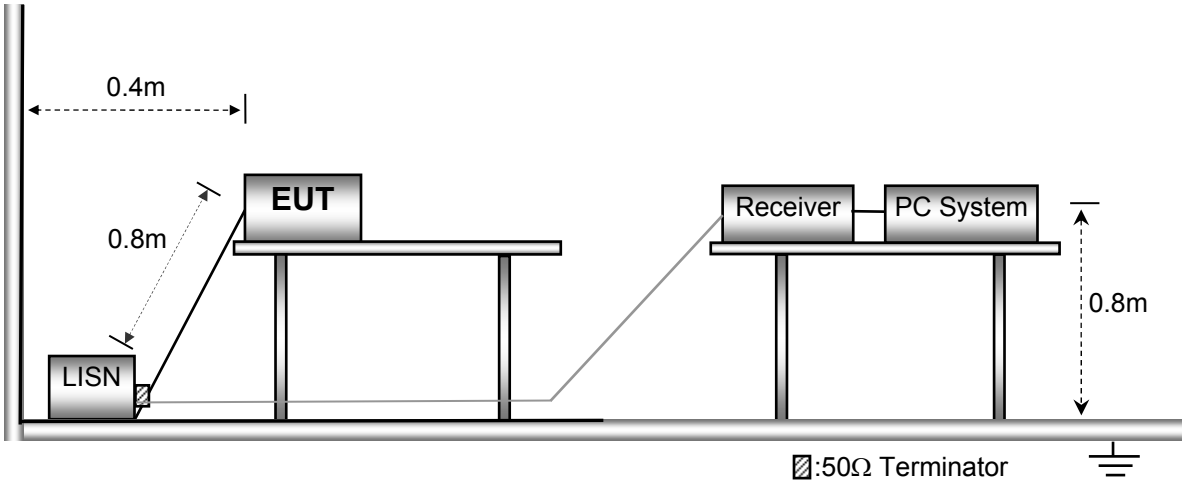
Humidity..... : 56.4%RH

Atmospheric Pressure ..... : 101.2kPa

EUT Operation..... : Refer to section 3.6.

6.1.2 Block Diagram of Test Setup

The AC Power Line Conducted Emissions tests were performed in accordance with the FCC/OET MP–5.

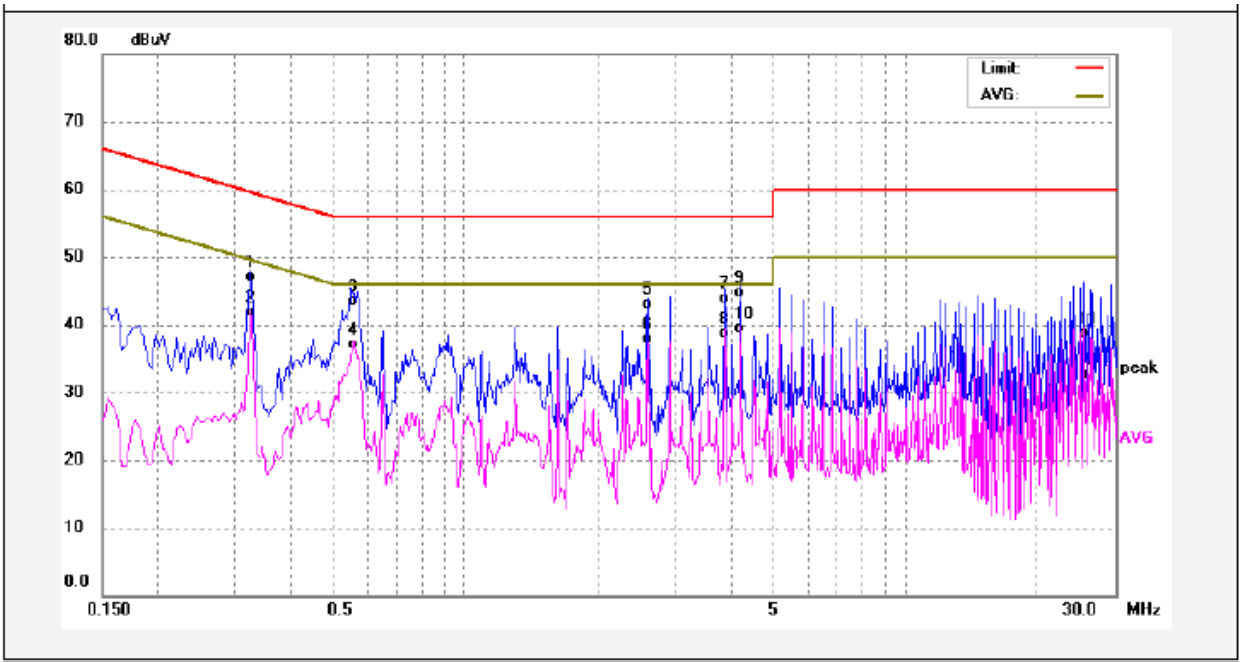


6.1.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 6.1.4, the EUT complied with the FCC PART 18.307 standards.

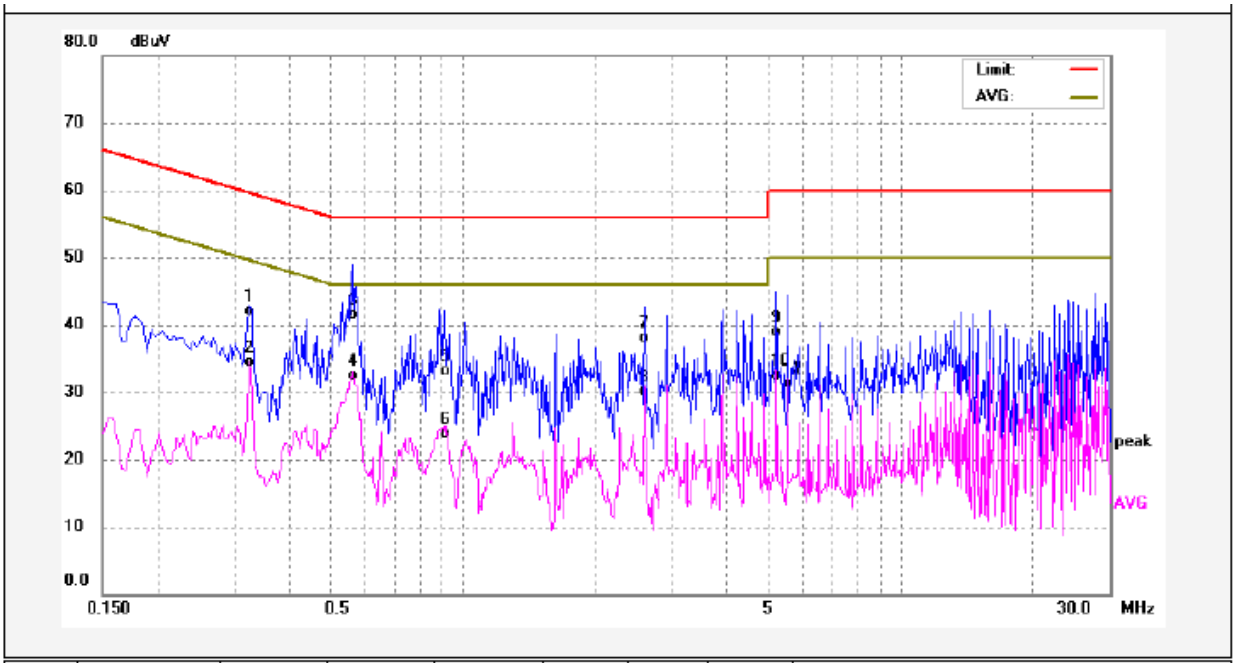
6.1.4 AC Power Line ConductedEmission Test Data

Live Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.3260	37.25	9.76	47.01	59.55	-12.54	QP	
2	0.3260	32.16	9.76	41.92	49.55	-7.63	AVG	
3	0.5580	33.44	9.99	43.43	56.00	-12.57	QP	
4	0.5580	27.09	9.99	37.08	46.00	-8.92	AVG	
5	2.5980	33.08	9.97	43.05	56.00	-12.95	QP	
6	2.5980	27.92	9.97	37.89	46.00	-8.11	AVG	
7	3.8980	34.00	9.89	43.89	56.00	-12.11	QP	
8	3.8980	28.81	9.89	38.70	46.00	-7.30	AVG	
9	4.2219	34.74	9.90	44.64	56.00	-11.36	QP	
10	4.2219	29.66	9.90	39.56	46.00	-6.44	AVG	
11	25.3340	26.67	12.13	38.80	60.00	-21.20	QP	
12	25.3340	20.51	12.13	32.64	50.00	-17.36	AVG	

Neutral Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.3260	32.15	9.86	42.01	59.55	-17.54	QP	
2	0.3260	24.74	9.86	34.60	49.55	-14.95	AVG	
3	0.5620	31.61	9.89	41.50	56.00	-14.50	QP	
4	0.5620	22.61	9.89	32.50	46.00	-13.50	AVG	
5	0.9180	23.19	9.89	33.08	56.00	-22.92	QP	
6	0.9180	14.08	9.89	23.97	46.00	-22.03	AVG	
7	2.6020	28.02	9.99	38.01	56.00	-17.99	QP	
8	2.6020	20.15	9.99	30.14	46.00	-15.86	AVG	
9	5.2020	28.92	9.96	38.88	60.00	-21.12	QP	
10	5.2020	22.60	9.96	32.56	50.00	-17.44	AVG	
11	5.5300	21.26	9.99	31.25	60.00	-28.75	QP	
12	5.5300	21.24	9.99	31.23	50.00	-18.77	AVG	

6.2 Radiation Emission

Test Requirement..... : FCC Part 18

Test Method..... : FCC OST/MP-5

Test Result ..... : Pass

Limit..... : 47CFR FCC part 18 §18.305

■Table 1

Equipment	Operating frequency	RF Power generated by equipment (watts	Field strength limit (uV/m)	Distance (meters)
☒Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 x SQRT (power/500)	300 (1)300
	Any NON-ISM frequency	Below 500 500 or more	15 15 x SQRT (power/500)	300 (1)300
☐Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1600 (2)
☐Medical diathermy	Any ISM frequency Any non- ISM frequency	Any Any	25 15	300 300
☐Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)x SQRT(power/500)	300 (3)300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	2,400/F(kHz) 15	30 30
☐Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	(4)30 (4)30

(1) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
(2) Reduced to the greatest extent possible.
(3) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
(4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Note : The field strength limit and distance shown in the following Table 2 are the conversion of the requirement in Table 1.

□Table 2

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (dBuV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	57.5	10

□The for RF lighting devices field strength limits

Frequency (MHz)	Field strength limit at 30 meters (μV/m)
Non-consumer equipment:	
30-88	30
88-216	50
216-1000	70
Consumer equipment:	
30-88	10
88-216	15
216-1000	20

Notes:
1. The tighter limit shall apply at the boundary between two frequency ranges.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature ..... : 25.8°C

Humidity..... : 52.5%RH

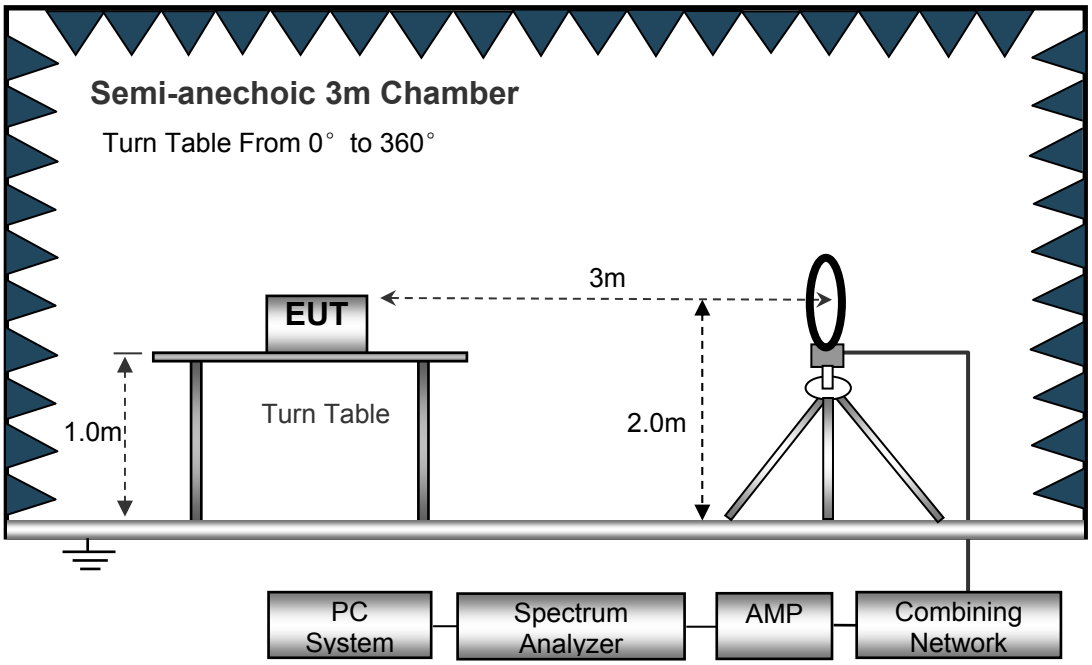
Atmospheric Pressure ..... : 101.8kPa

EUT Operation..... : Refer to section 3.6.

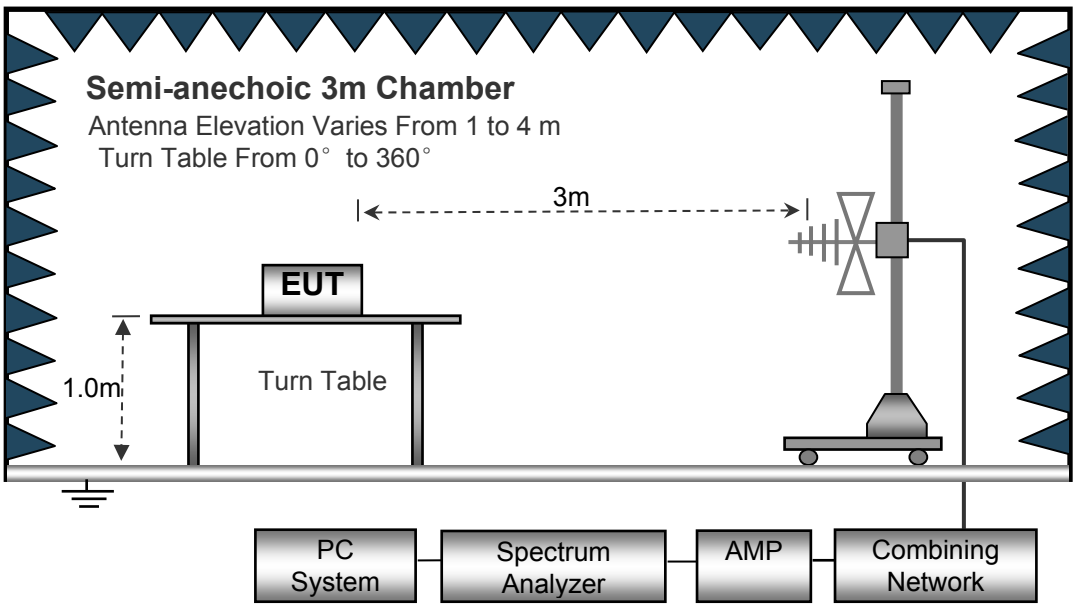
6.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the FCC/OET MP–5.

The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz



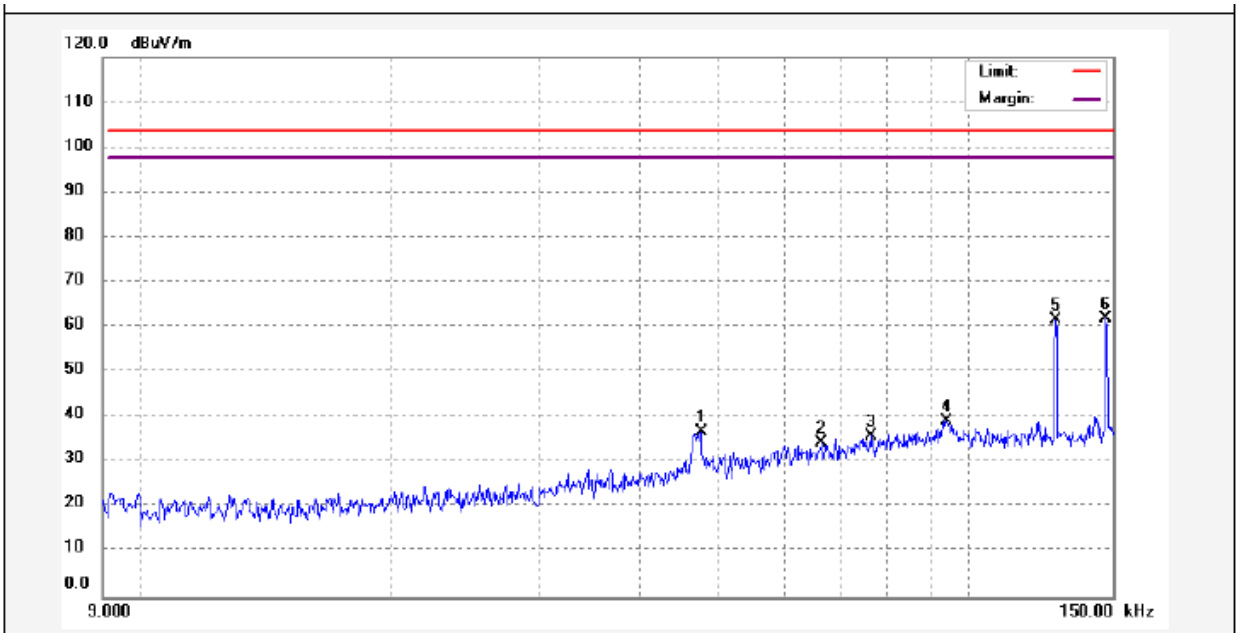
6.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

6.2.4 Radiated Emission Test Data, 9kHz to 30MHz

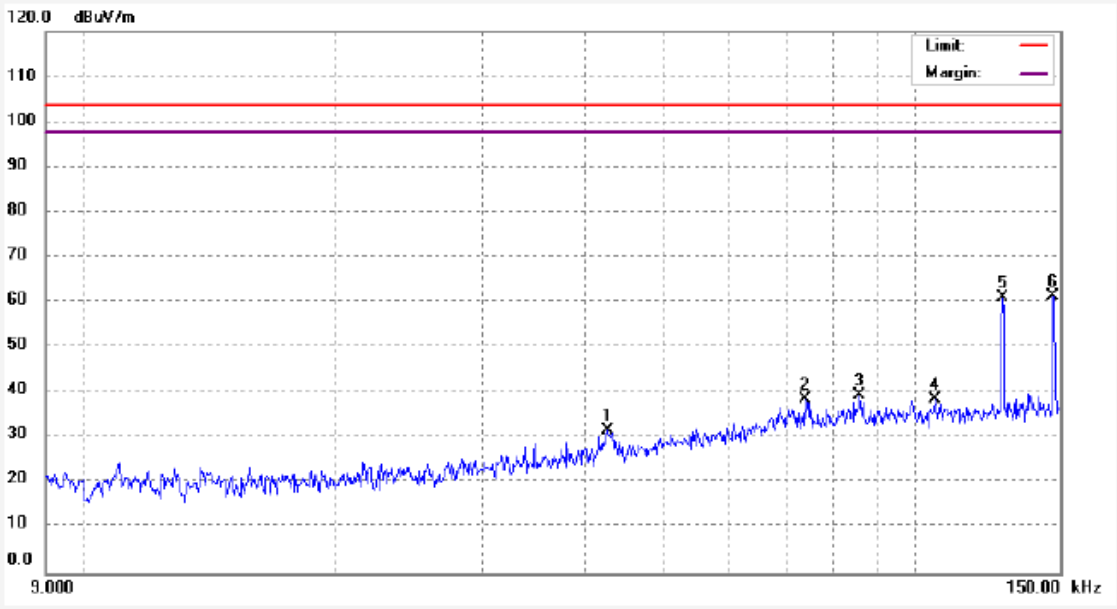
9kHz to 150kHz

Antenna Orientation: Parallel



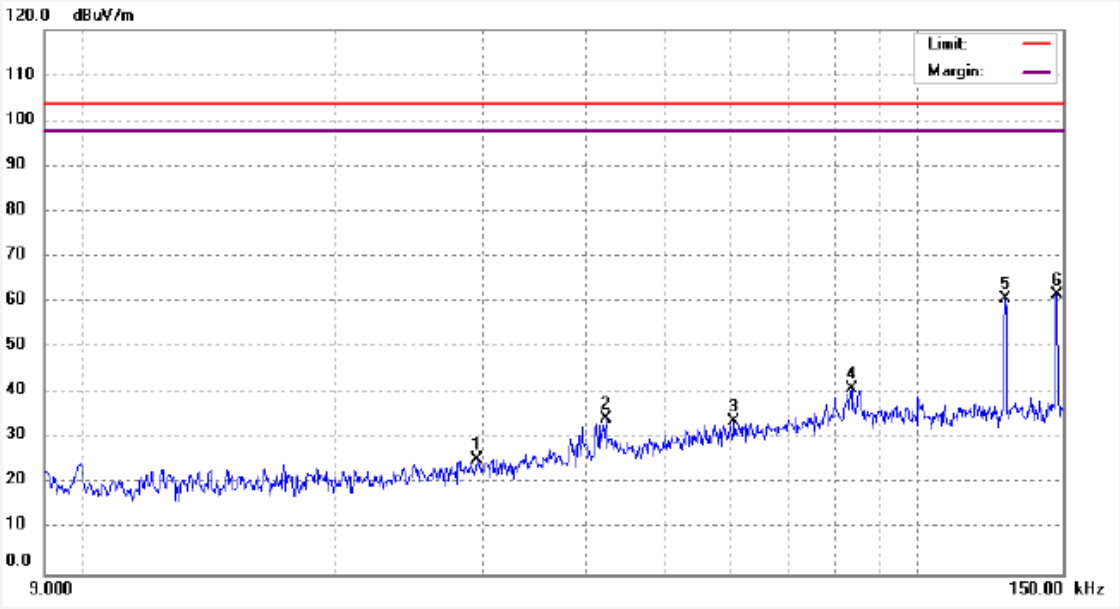
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	0.0475	51.37	-14.58	36.79	103.50	-66.71	peak	
2	0.0665	48.78	-14.48	34.30	103.50	-69.20	peak	
3	0.0763	50.20	-14.40	35.80	103.50	-67.70	peak	
4	0.0942	53.80	-14.52	39.28	103.50	-64.22	peak	
5	0.1276	76.56	-14.83	61.73	103.50	-41.77	peak	
6	0.1469	77.06	-15.00	62.06	103.50	-41.44	peak	

Antenna Orientation: Perpendicular



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	0.0427	46.26	-14.52	31.74	103.50	-71.76	peak	
2	0.0738	52.81	-14.40	38.41	103.50	-65.09	peak	
3	0.0859	53.98	-14.43	39.55	103.50	-63.95	peak	
4	0.1061	53.07	-14.64	38.43	103.50	-65.07	peak	
5	0.1276	75.84	-14.83	61.01	103.50	-42.49	peak	
6	0.1470	76.38	-15.00	61.38	103.50	-42.12	peak	

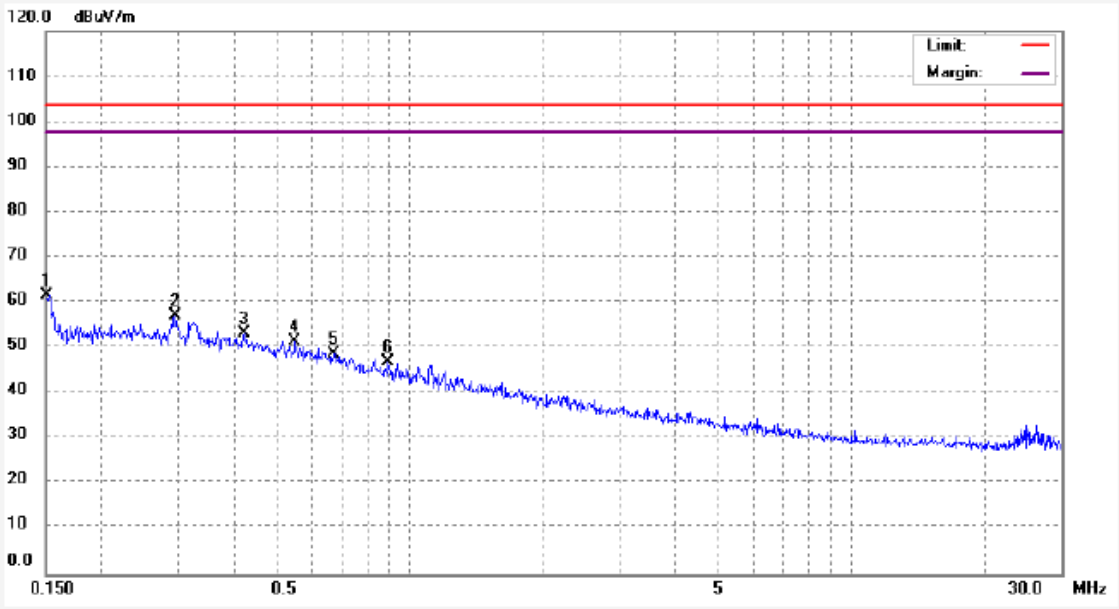
Antenna Orientation: Ground parallel



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	0.0297	39.62	-14.33	25.29	103.50	-78.21	peak	
2	0.0424	48.97	-14.50	34.47	103.50	-69.03	peak	
3	0.0604	48.39	-14.53	33.86	103.50	-69.64	peak	
4	0.0834	55.37	-14.39	40.98	103.50	-62.52	peak	
5	0.1276	75.62	-14.83	60.79	103.50	-42.71	peak	
6	0.1474	76.59	-15.00	61.59	103.50	-41.91	peak	

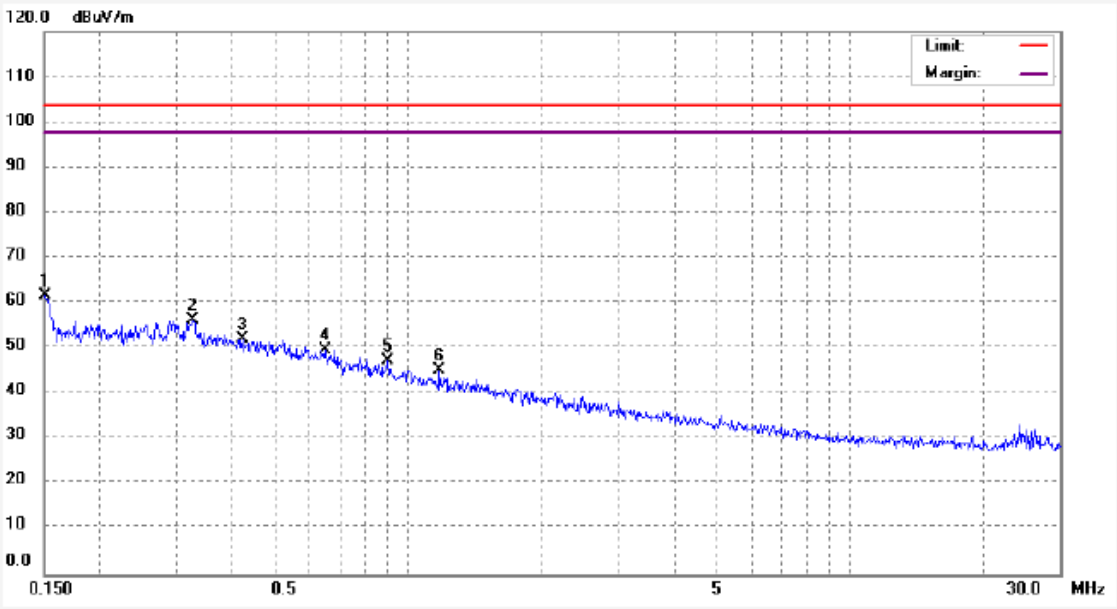
150kHz to 30MHz

Antenna Orientation: Parallel



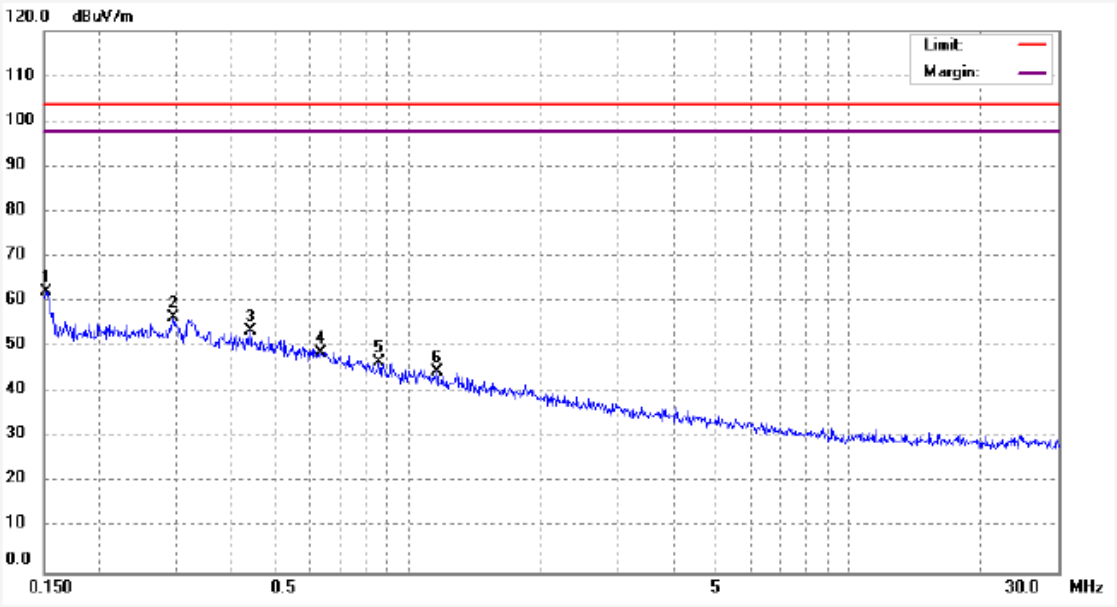
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	0.1499	76.78	-15.02	61.76	103.50	-41.74	peak	
2	0.2939	71.87	-14.83	57.04	103.50	-46.46	peak	
3	0.4214	67.95	-14.69	53.26	103.50	-50.24	peak	
4	0.5493	65.97	-14.60	51.37	103.50	-52.13	peak	
5	0.6718	63.26	-14.58	48.68	103.50	-54.82	peak	
6	0.8944	61.64	-14.54	47.10	103.50	-56.40	peak	

Antenna Orientation: Perpendicular



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	0.1507	76.58	-15.02	61.56	103.50	-41.94	peak	
2	0.3251	71.18	-14.79	56.39	103.50	-47.11	peak	
3	0.4214	66.60	-14.69	51.91	103.50	-51.59	peak	
4	0.6474	64.29	-14.58	49.71	103.50	-53.79	peak	
5	0.8991	61.69	-14.54	47.15	103.50	-56.35	peak	
6	1.1781	59.74	-14.49	45.25	103.50	-58.25	peak	

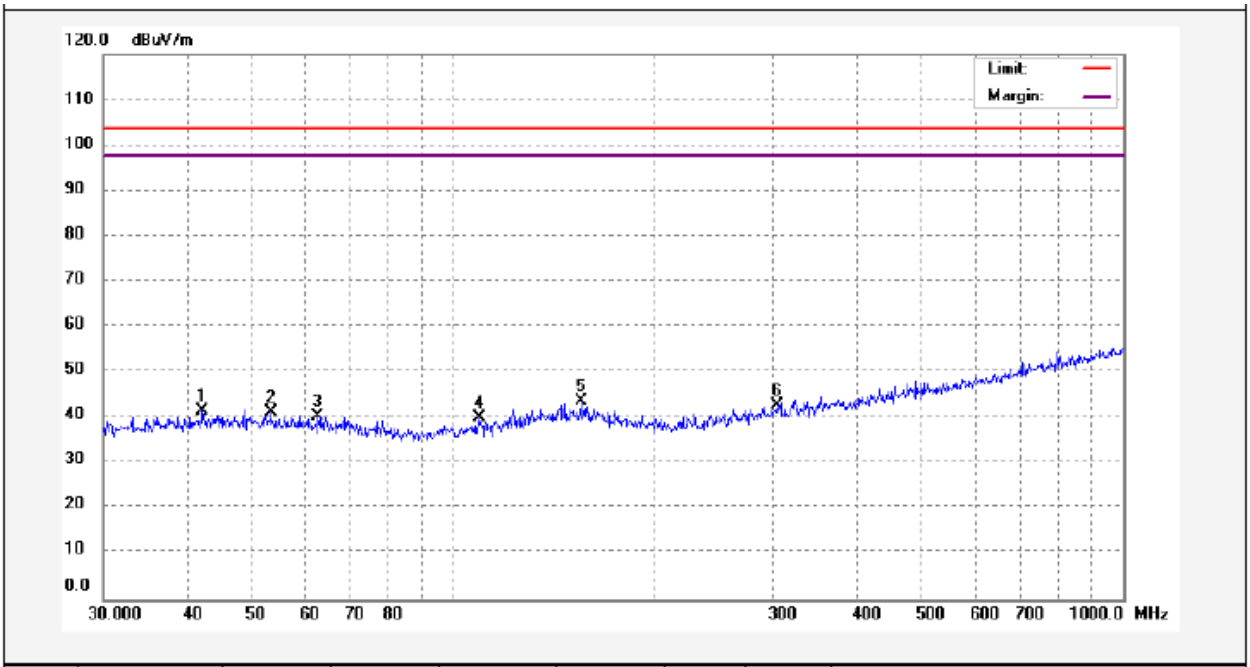
Antenna Orientation: Ground parallel



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	0.1515	77.25	-15.02	62.23	103.50	-41.27	peak	
2	0.2939	71.31	-14.83	56.48	103.50	-47.02	peak	
3	0.4397	68.10	-14.67	53.43	103.50	-50.07	peak	
4	0.6371	63.45	-14.58	48.87	103.50	-54.63	peak	
5	0.8618	61.34	-14.56	46.78	103.50	-56.72	peak	
6	1.1657	58.93	-14.49	44.44	103.50	-59.06	peak	

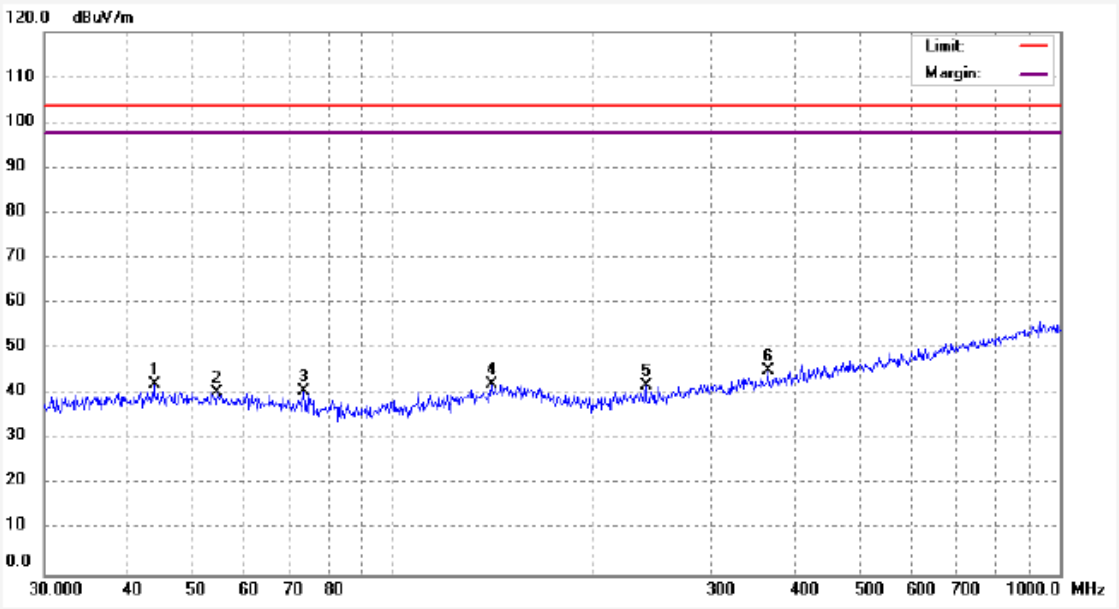
6.2.5 Radiated Emission Test Data,30MHz to 1000MHz

Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	42.1541	51.37	-9.77	41.60	103.50	-61.90	peak	
2	53.3179	51.20	-10.01	41.19	103.50	-62.31	peak	
3	62.6506	51.16	-10.86	40.30	103.50	-63.20	peak	
4	109.4116	50.87	-10.86	40.01	103.50	-63.49	peak	
5	154.8204	51.89	-8.09	43.80	103.50	-59.70	peak	
6	303.5437	50.71	-7.98	42.73	103.50	-60.77	peak	

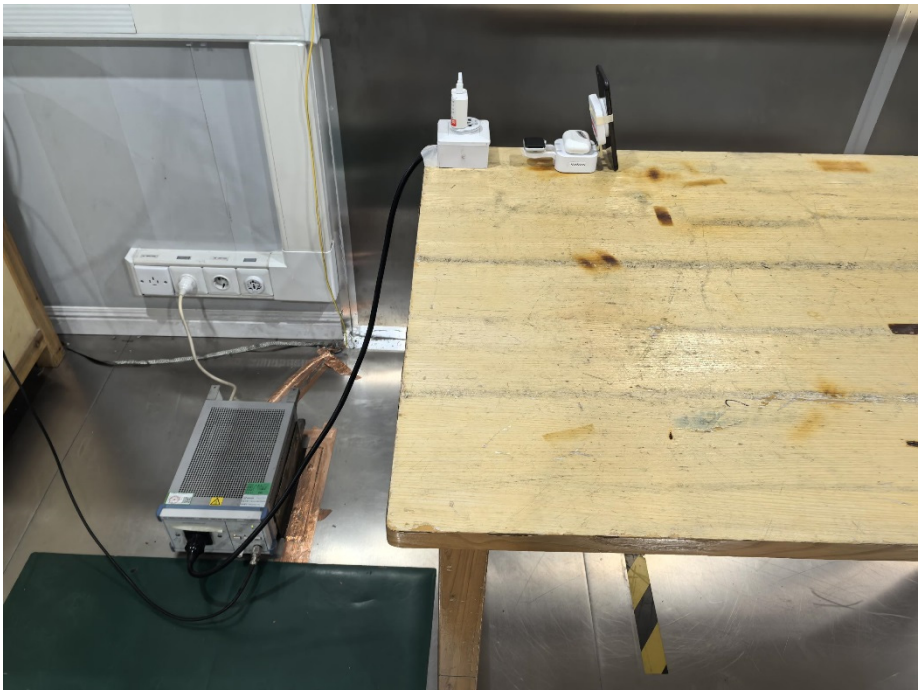
Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	43.8119	52.02	-9.76	42.26	103.50	-61.24	peak	
2	54.4515	50.51	-10.12	40.39	103.50	-63.11	peak	
3	73.3593	52.58	-11.88	40.70	103.50	-62.80	peak	
4	140.3420	50.33	-8.25	42.08	103.50	-61.42	peak	
5	239.1472	51.60	-9.79	41.81	103.50	-61.69	peak	
6	364.2595	51.77	-6.61	45.16	103.50	-58.34	peak	

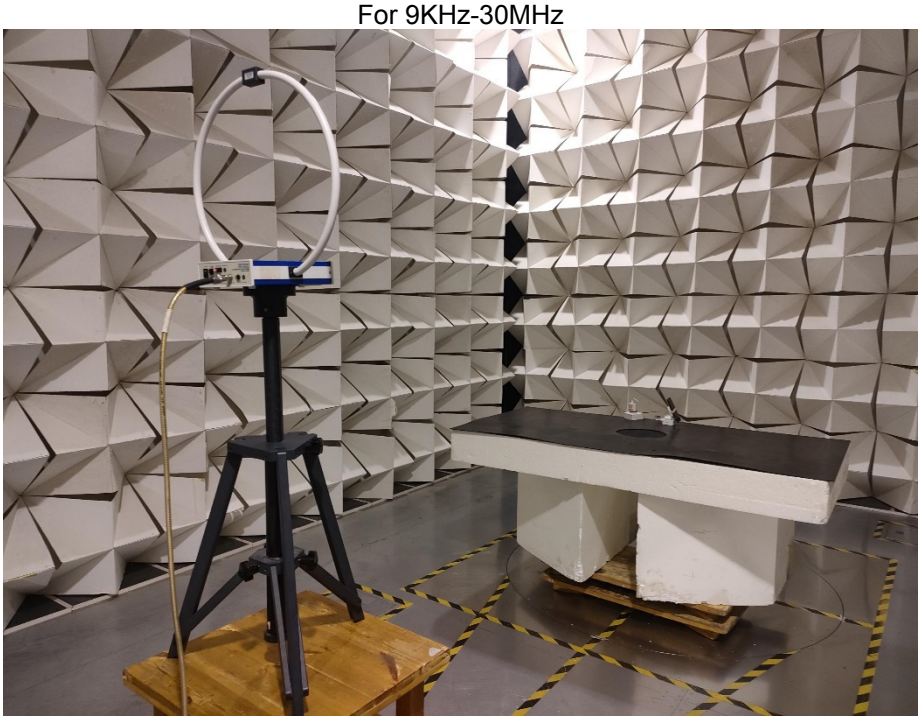
7 Photographs–Test Setup

7.1 Photograph–AC Power Line ConductedEmission Test Setup

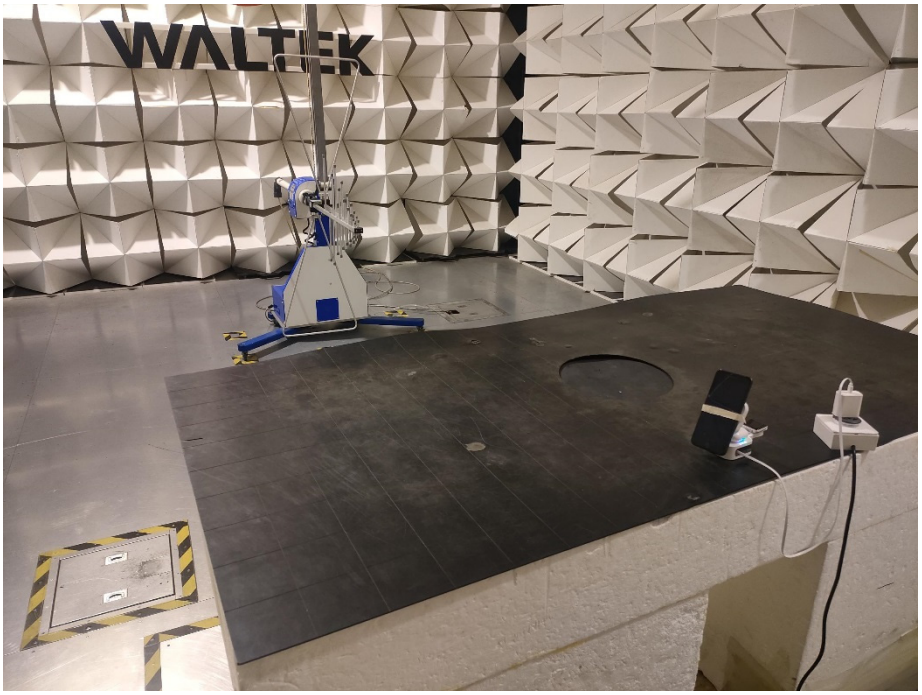


7.2 Photograph–Radiated Emission

For 9KHz-30MHz



For 30MHz-1000MHz



8 Photographs – Constructional Details

Note: Please refer to appendix: Appendix-WM-GS27-WH-Photos.

======End of Report======