

FCC Radio Test Report

FCC ID: 2AF82-TD0360H

Report No. : BTL-FCCP-2-2311T064
Equipment : Panel PC
Model Name : TD-0360, TD-036XXXXXXX (where "X" may be any alphanumeric, blank "_" or "-" for marketing purpose only)
Brand Name : Qbic
Applicant : Qbic Technology Co., Ltd.
Address : 26F.-12, NO.99, SEC. 1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 22175, TAIWAN
Radio Function : RFID (125 kHz)
FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.209)
Measurement : ANSI C63.10-2013
Procedure(s)
Date of Receipt : 2023/12/12
Date of Test : 2024/1/8 ~ 2024/1/15
Issued Date : 2024/1/24

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

Prepared by

: Jerry Chuang
Jerry Chuang, Supervisor



Approved by

: Peter Chen
Peter Chen, Manager

BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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** 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.

CONTENTS

REVISION HISTORY	4
1 SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
1.3 TEST ENVIRONMENT CONDITIONS	6
2 GENERAL INFORMATION	7
2.1 DESCRIPTION OF EUT	7
2.2 TEST MODES	8
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	9
2.4 SUPPORT UNITS	10
3 AC POWER LINE CONDUCTED EMISSIONS TEST	11
3.1 LIMIT	11
3.2 TEST PROCEDURE	11
3.3 DEVIATION FROM TEST STANDARD	11
3.4 TEST SETUP	12
3.5 TEST RESULT	12
4 RADIATED EMISSIONS TEST	13
4.1 LIMIT	13
4.2 TEST PROCEDURE	13
4.3 DEVIATION FROM TEST STANDARD	13
4.4 TEST SETUP	14
4.5 EUT OPERATING CONDITIONS	14
4.6 TEST RESULT – 9 KHZ TO 30 MHZ	14
4.7 TEST RESULT – 30 MHZ TO 1 GHZ	14
5 20 DB BANDWIDTH	15
5.1 LIMIT	15
5.2 TEST PROCEDURE	15
5.3 DEVIATION FROM TEST STANDARD	15
5.4 TEST SETUP	15
5.5 EUT OPERATING CONDITIONS	15
5.6 TEST RESULT	15
6 LIST OF MEASURING EQUIPMENTS	16
7 EUT TEST PHOTO	17
8 EUT PHOTOS	17
APPENDIX A AC POWER LINE CONDUCTED EMISSIONS	18
APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ	23
APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	28
APPENDIX D 20 DB BANDWIDTH	31

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2311T064	R00	Original Report.	2024/1/24	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
15.209	Radiated Emissions	APPENDIX B APPENDIX C	Pass	-----
15.215(c)	20 dB Bandwidth	APPENDIX D	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

C05 CB08 CB11 SR10 SR11
No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

C06 CB21 CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cisp} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C06	CISPR	150 kHz ~ 30 MHz	3.44

B. Radiated emissions below 1 GHz test :

Test Site	Method	Measurement Frequency Range	U (dB)
CB21	CISPR	9 kHz ~ 150 kHz	2.82
		150 kHz ~ 30 MHz	2.58

Test Site	Measurement Frequency Range	U (dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U (dB)
Bandwidth	1.13

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	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	23 °C, 55 %	AC 120V	Ken Lan
Radiated emissions (9KHz TO 30MHz)	Refer to data	AC 120V	Mark Wang
Radiated emissions (30MHz TO 1000MHz)	Refer to data	AC 120V	Mark Wang
20 dB Bandwidth	21.9 °C, 64 %	AC 120V	Jerry Chuang

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Panel PC
Model Name	TD-0360, TD-036XXXXXXX (where "X" may be any alphanumeric, blank "_" or "-" for marketing purpose only)
Brand Name	Qbic
Model Difference	Different model distribute to different area.
Power Source	DC Voltage supplied from AC/DC adapter.
	EUT: DC 5V, 2A
Power Rating	For PSAF10R-050Q: Input: 100-240V~50/60Hz 0.3A 50-60Hz Output: 5V, 2.0A 10.0W
Products Covered	1* Adapter: Phihong Technology Co., Ltd / PSAF10R-050Q 1* USB cable: GET-CHANCE TECHNOLOGY CO., LTD. / KXTYCTD063M01 1* Wall mount: HON-SHIN PLASTIC FACTORY / PTD063WM10001 1* RF module: AzureWave / AW-CM467-SUR 1* MemoryDown0LPDDR3: Samsung / K4E6E304ED-EGCG 1* eMMC: Samsung / KLMAG1JETD-B041 1* MIPI Panel: AUO / A036FAB01.1 1* RTC: NXP / PCA85073A 1* CPU: Rockchip / PX30
Frequency Range	125 kHz
Modulation Technology	ASK
Max H-field strength	73.97 dBuV/m @ 1 m
Test Model	TD-0360
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (kHz)
-	125

(3) Table for Filed Antenna:

Antenna	Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
1	 SMARFID	TH6M22P	N/A	FPC	N/A

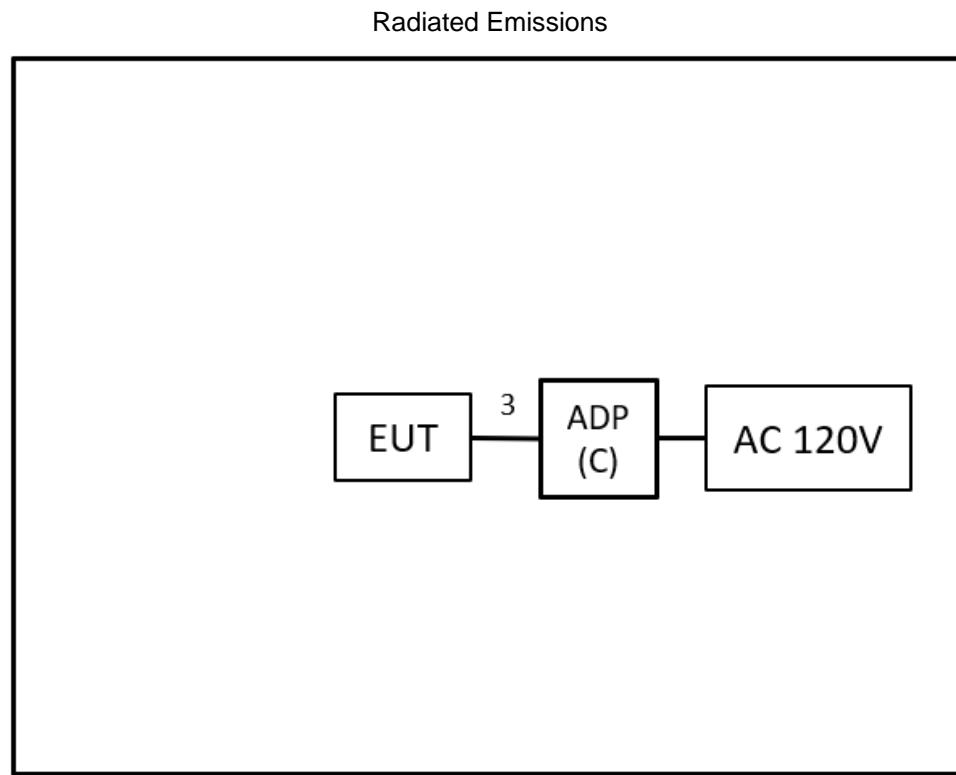
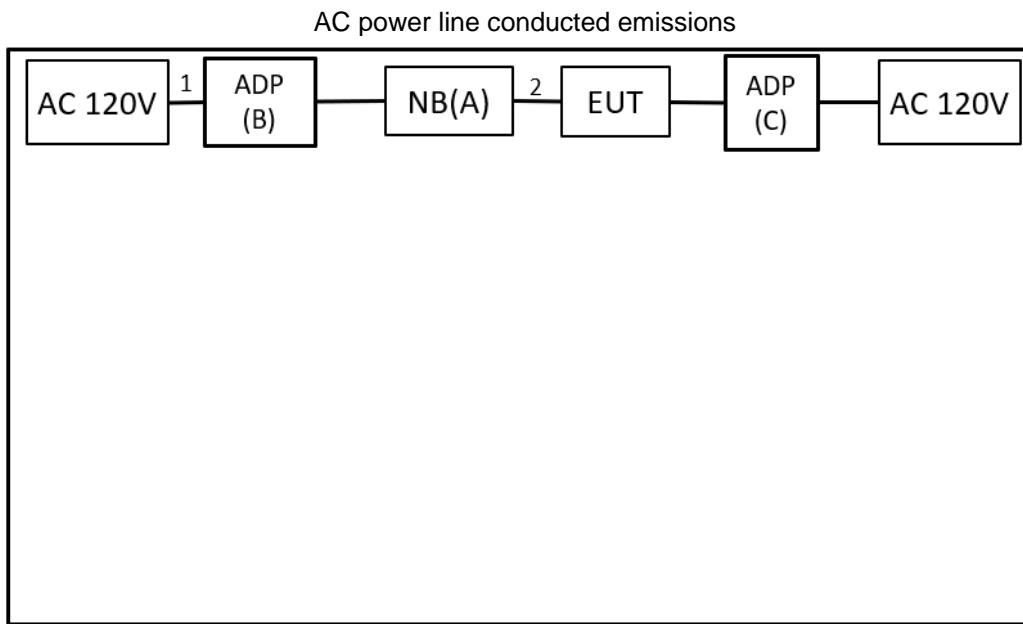
(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Radiated emissions (9KHz TO 30MHz)	TX	-	-
Radiated emissions (30MHz TO 1000MHz)	TX	-	-
20 dB Bandwidth	TX	-	-

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	HP	250 G5	N/A	Furnished by test lab.
B	ADP	HP	HSTNN-LA40	N/A	Furnished by test lab.
C	ADP	Phihong Technology Co., Ltd	PSAF10R-050Q	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Power Cord	Furnished by test lab.
2	N/A	N/A	0.6m	USB to Micro USB	Furnished by test lab.
3	N/A	N/A	3m	Type C Cable	Supplied by test requester.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value – Limit Value

Calculation example:

Reading Level (dB μ V)		Correct Factor (dB)		Measurement Value (dB μ V)
38.22	+	3.45	=	41.67

Measurement Value (dB μ V)		Limit Value (dB μ V)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

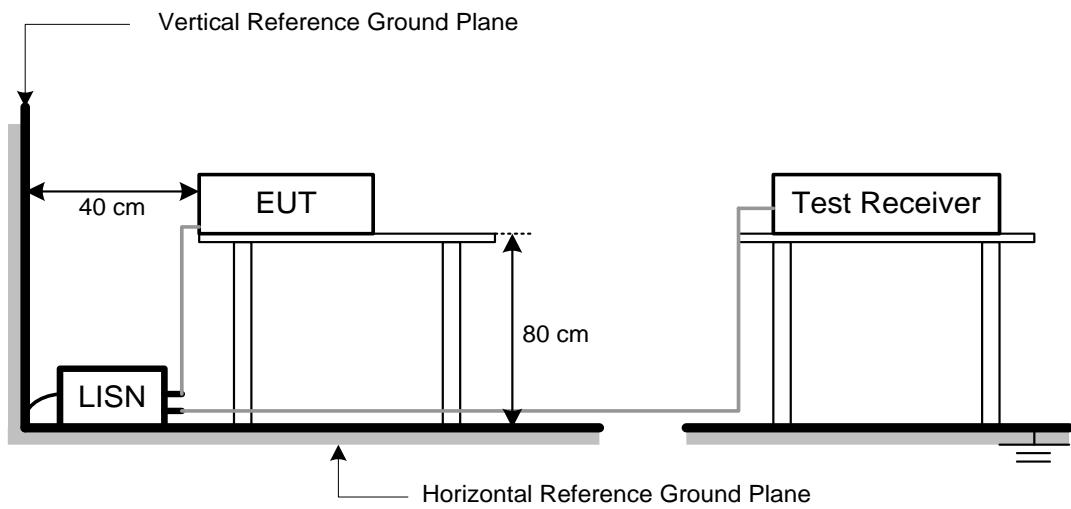
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT(9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB μ V/m)=20log Emission level (uV/m).
- (4) 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

Calculation example:

Reading Level (dB μ V)		Correct Factor (dB/m)		Measurement Value (dB μ V/m)
19.11	+	2.11	=	21.22

Measurement Value (dB μ V/m)		Limit Value (dB μ V/m)		Margin Level (dB)
21.22	-	40	=	-18.78

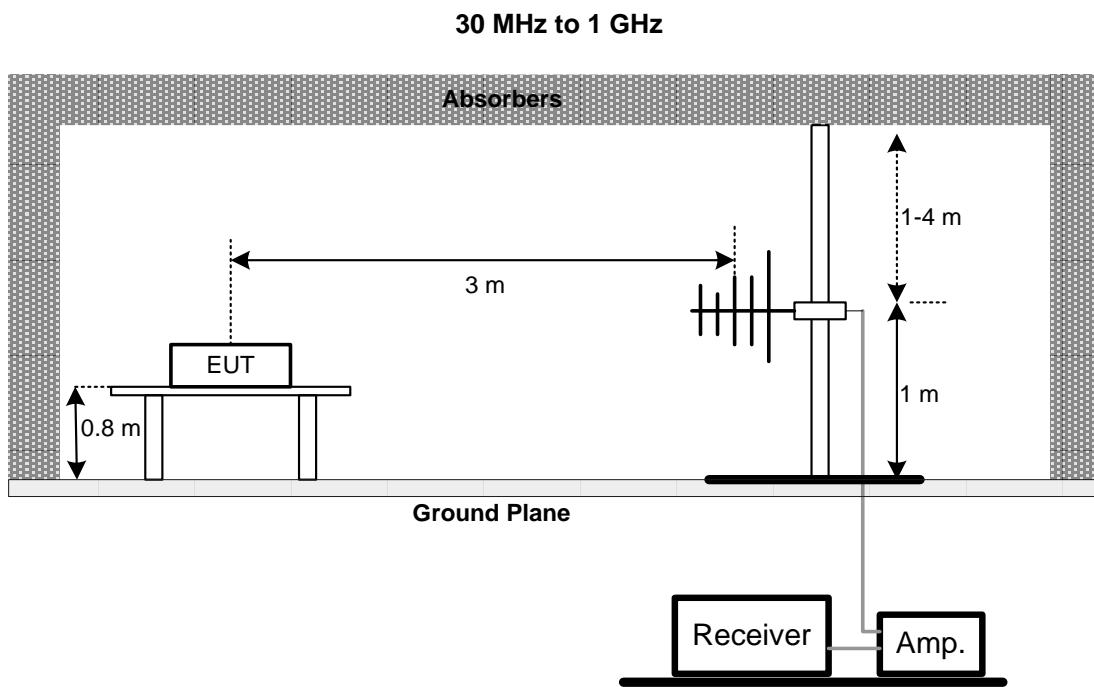
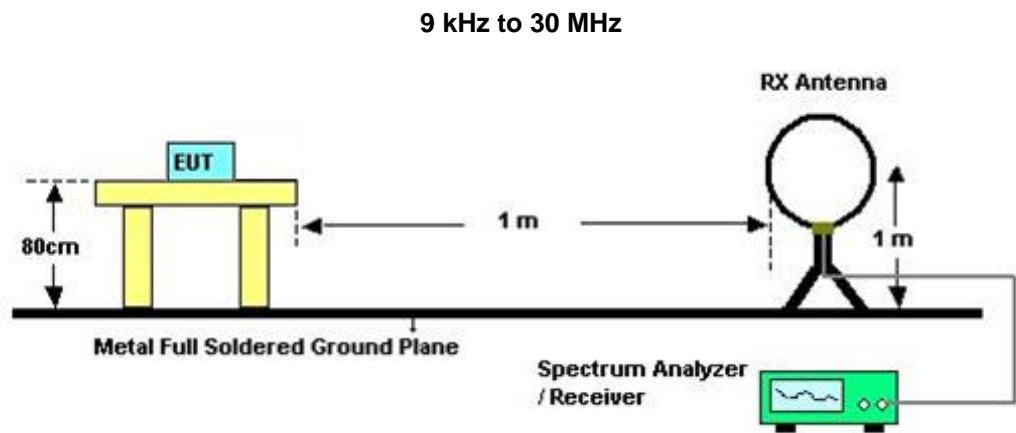
4.2 TEST PROCEDURE

- a. 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.(below 1 GHz)
- b. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
- c. 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).
- d. 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.
- e. 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. (below 1 GHz)
- f. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

NOTE:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 20 DB BANDWIDTH

5.1 LIMIT

N/A

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1 kHz, VBW=1 kHz, Sweep time = 20 ms.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

6 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101497	2023/5/18	2024/5/17
2	Test Cable	EMCI	EMC400-BM-BM-5000	170501	2023/8/1	2024/7/31
3	EMI Test Receiver	R&S	ESR3	102950	2023/4/12	2024/4/11
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2023/9/6	2024/9/5
2	Preamplifier	EMCI	EMC001340	980579	2023/9/6	2024/9/5
3	Test Cable	EMCI	EMC104-SM-1000	180809	2023/7/10	2024/7/9
4	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2023/3/14	2024/3/13
5	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2023/3/14	2024/3/13
6	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
7	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2023/9/12	2024/9/11
8	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
9	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
10	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

20 dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSV7	103032	2023/8/10	2024/8/9
2	Thermal Chamber	HOLINK	H-TH-2SP-B	EK04101902	2023/7/3	2024/7/2

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

7 EUT TEST PHOTO

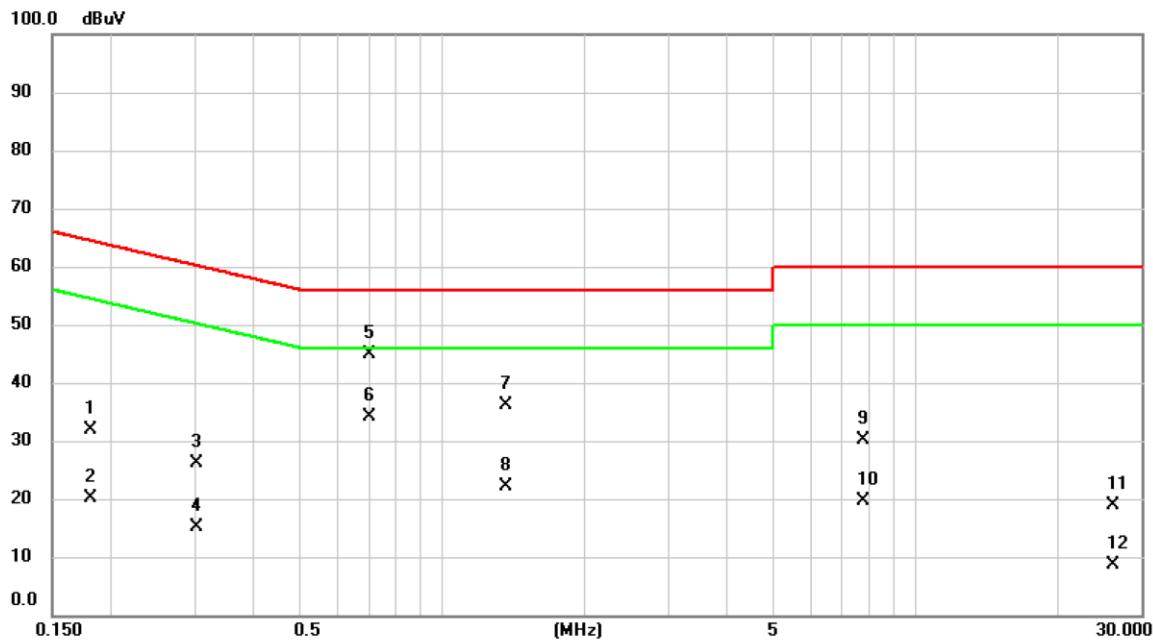
Please refer to document Appendix No.: TP-2311T064-FCCP-1 (APPENDIX-TEST PHOTOS).

8 EUT PHOTOS

Please refer to document Appendix No.: EP-2311T064-2 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2024/1/9
Test Frequency	-	Phase	Line

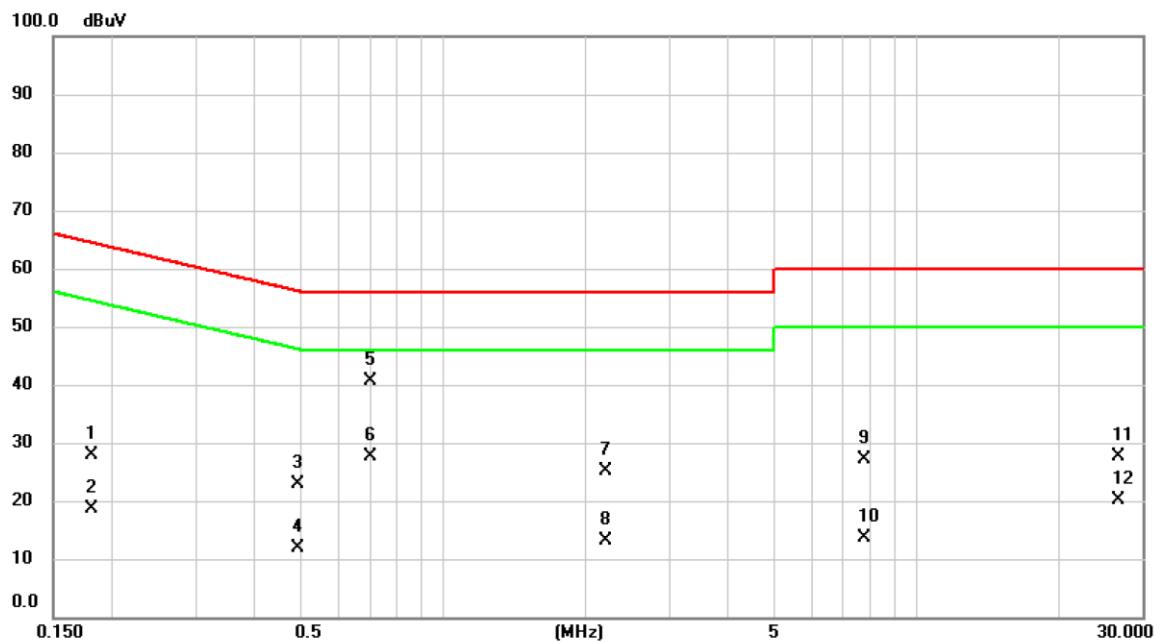


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1815	31.92	0.03	31.95	64.42	-32.47	QP
2		0.1815	20.06	0.03	20.09	54.42	-34.33	AVG
3		0.3030	26.05	0.03	26.08	60.16	-34.08	QP
4		0.3030	15.04	0.03	15.07	50.16	-35.09	AVG
5 *		0.7012	44.94	0.05	44.99	56.00	-11.01	QP
6		0.7012	34.18	0.05	34.23	46.00	-11.77	AVG
7		1.3650	36.10	0.07	36.17	56.00	-19.83	QP
8		1.3650	22.01	0.07	22.08	46.00	-23.92	AVG
9		7.7393	29.90	0.16	30.06	60.00	-29.94	QP
10		7.7393	19.38	0.16	19.54	50.00	-30.46	AVG
11		26.1398	18.49	0.29	18.78	60.00	-41.22	QP
12		26.1398	8.28	0.29	8.57	50.00	-41.43	AVG

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2024/1/9
Test Frequency	-	Phase	Neutral

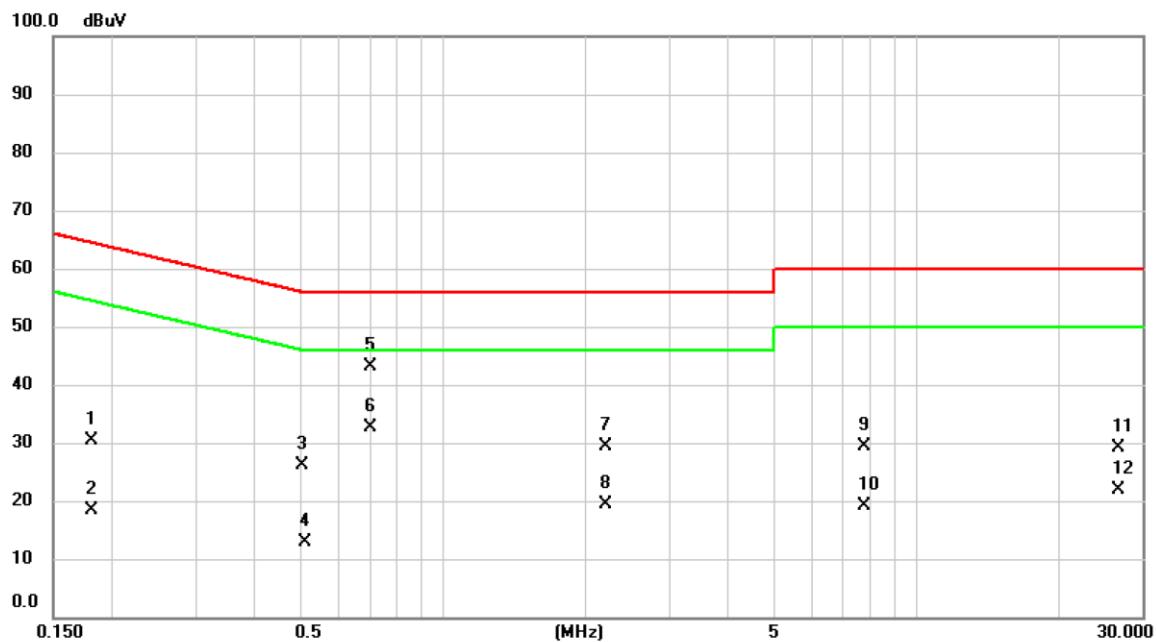


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1815	27.84	0.03	27.87	64.42	-36.55	QP	
2		0.1815	18.70	0.03	18.73	54.42	-35.69	AVG	
3		0.4920	22.93	0.04	22.97	56.13	-33.16	QP	
4		0.4920	11.72	0.04	11.76	46.13	-34.37	AVG	
5	*	0.7012	40.67	0.05	40.72	56.00	-15.28	QP	
6		0.7012	27.56	0.05	27.61	46.00	-18.39	AVG	
7		2.1996	24.95	0.08	25.03	56.00	-30.97	QP	
8		2.1996	13.17	0.08	13.25	46.00	-32.75	AVG	
9		7.7392	26.86	0.16	27.02	60.00	-32.98	QP	
10		7.7392	13.57	0.16	13.73	50.00	-36.27	AVG	
11		26.6235	27.42	0.30	27.72	60.00	-32.28	QP	
12		26.6235	19.74	0.30	20.04	50.00	-29.96	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2024/1/9
Test Frequency	-	Phase	Line

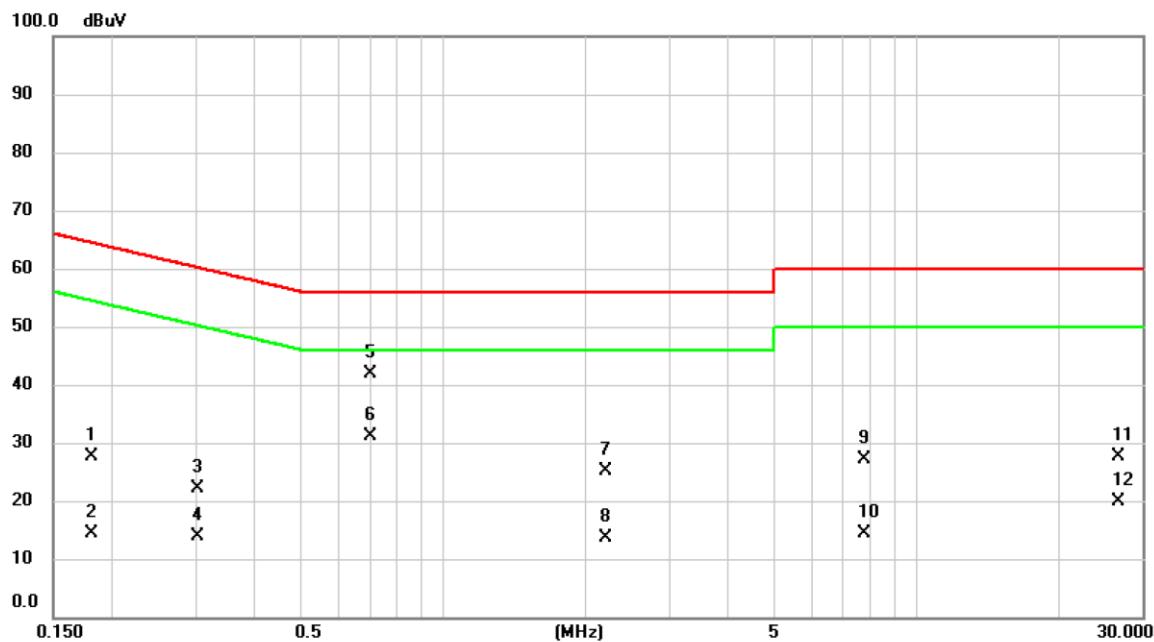


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1815	30.26	0.03	30.29	64.42	-34.13	QP	
2		0.1815	18.38	0.03	18.41	54.42	-36.01	AVG	
3		0.5032	26.03	0.04	26.07	56.00	-29.93	QP	
4		0.5100	12.95	0.04	12.99	46.00	-33.01	AVG	
5 *		0.7012	43.15	0.05	43.20	56.00	-12.80	QP	
6		0.7012	32.55	0.05	32.60	46.00	-13.40	AVG	
7		2.1998	29.37	0.08	29.45	56.00	-26.55	QP	
8		2.1998	19.26	0.08	19.34	46.00	-26.66	AVG	
9		7.7393	29.31	0.16	29.47	60.00	-30.53	QP	
10		7.7393	18.90	0.16	19.06	50.00	-30.94	AVG	
11		26.6235	28.78	0.30	29.08	60.00	-30.92	QP	
12		26.6235	21.51	0.30	21.81	50.00	-28.19	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2024/1/9
Test Frequency	-	Phase	Neutral



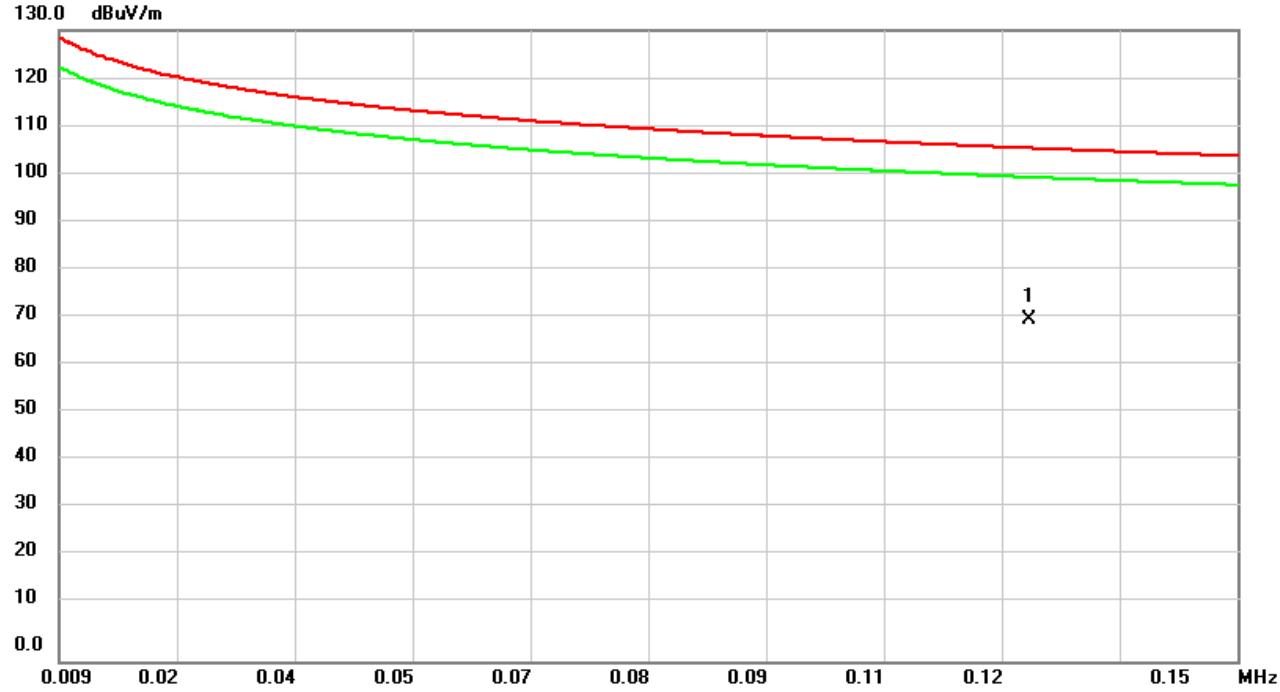
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1815	27.49	0.03	27.52	64.42	-36.90	QP	
2		0.1815	14.31	0.03	14.34	54.42	-40.08	AVG	
3		0.3030	22.20	0.03	22.23	60.16	-37.93	QP	
4		0.3030	13.85	0.03	13.88	50.16	-36.28	AVG	
5 *		0.7012	41.86	0.05	41.91	56.00	-14.09	QP	
6		0.7012	31.08	0.05	31.13	46.00	-14.87	AVG	
7		2.1998	25.06	0.08	25.14	56.00	-30.86	QP	
8		2.1998	13.49	0.08	13.57	46.00	-32.43	AVG	
9		7.7393	26.99	0.16	27.15	60.00	-32.85	QP	
10		7.7393	14.20	0.16	14.36	50.00	-35.64	AVG	
11		26.6235	27.26	0.30	27.56	60.00	-32.44	QP	
12		26.6235	19.62	0.30	19.92	50.00	-30.08	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Test Mode	TX	Test Date	2024/1/11
Test Frequency	125kHz	Polarization	Vertical
Temp	21°C	Hum.	58%

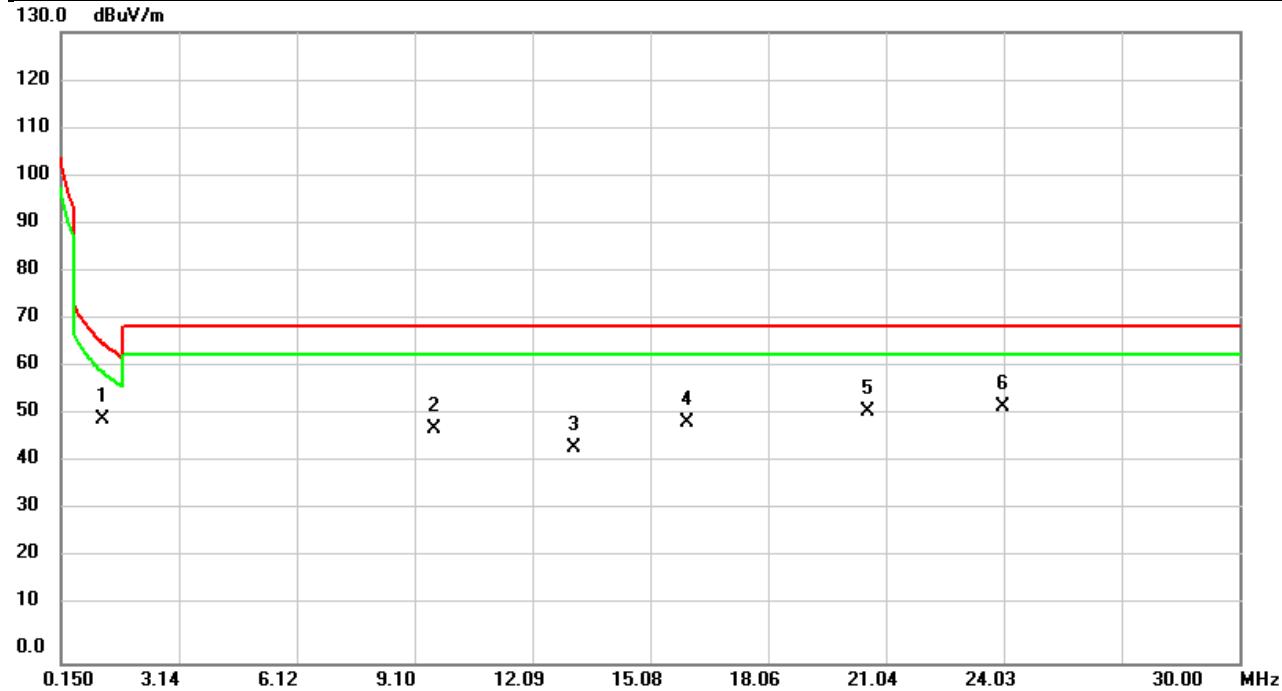


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1250	54.81	15.52	70.33	105.67	-35.34	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX	Test Date	2024/1/11
Test Frequency	125kHz	Polarization	Vertical
Temp	21°C	Hum.	58%

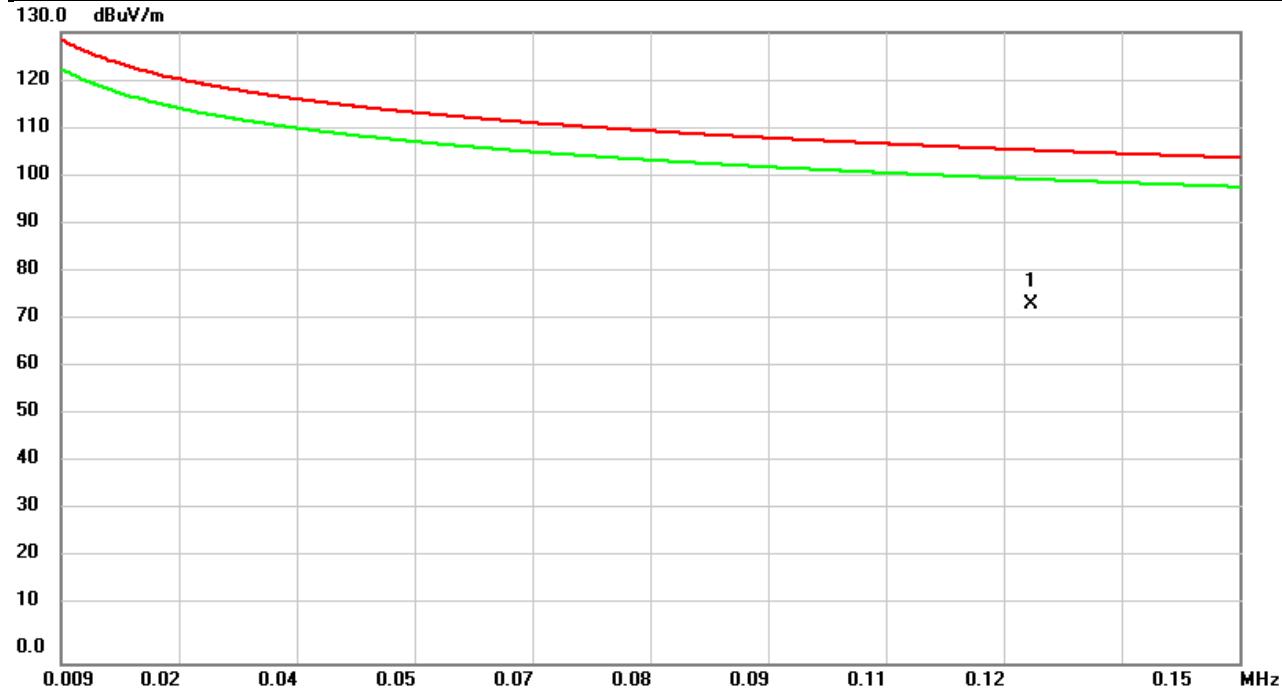


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1.2086	49.94	0.28	50.22	65.96	-15.74	QP	
2		9.5875	51.50	-3.30	48.20	69.54	-21.34	QP	
3		13.1586	47.76	-3.48	44.28	69.54	-25.26	QP	
4		15.9983	53.18	-3.76	49.42	69.54	-20.12	QP	
5		20.5733	55.62	-3.84	51.78	69.54	-17.76	QP	
6		24.0011	54.91	-2.21	52.70	69.54	-16.84	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX	Test Date	2024/1/11
Test Frequency	125kHz	Polarization	Horizontal
Temp	21°C	Hum.	58%

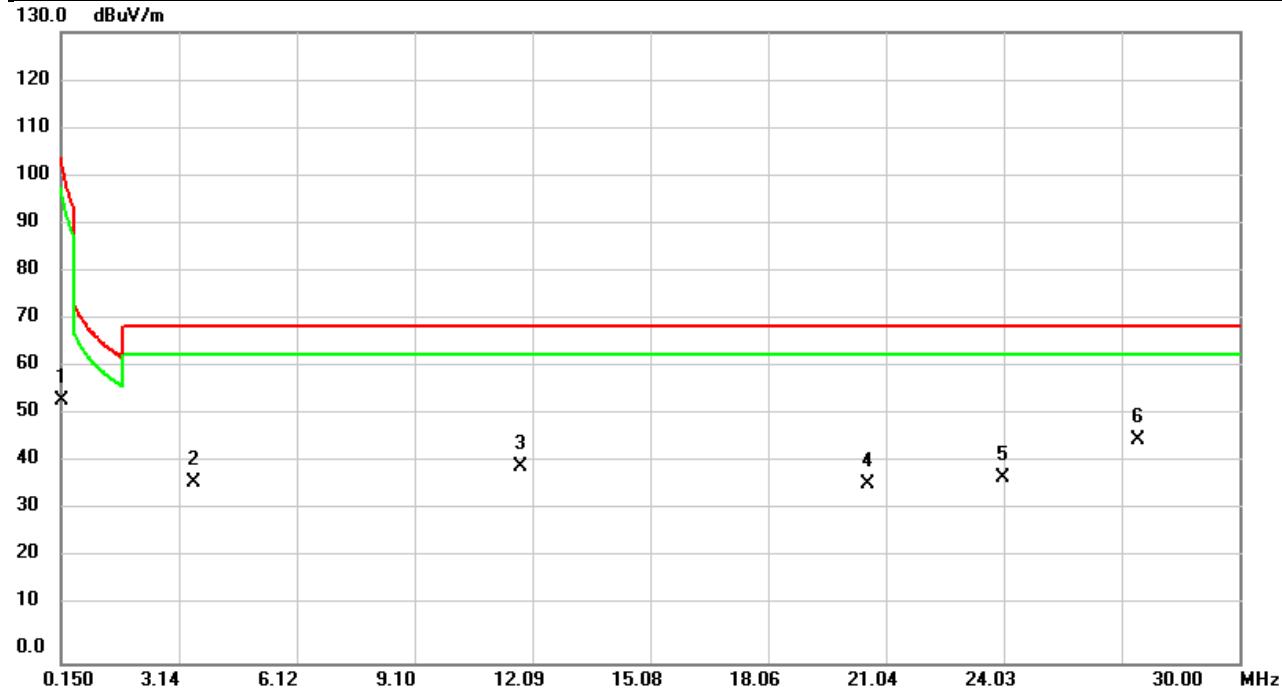


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1250	58.45	15.52	73.97	105.67	-31.70	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX	Test Date	2024/1/11
Test Frequency	125kHz	Polarization	Horizontal
Temp	21°C	Hum.	58%



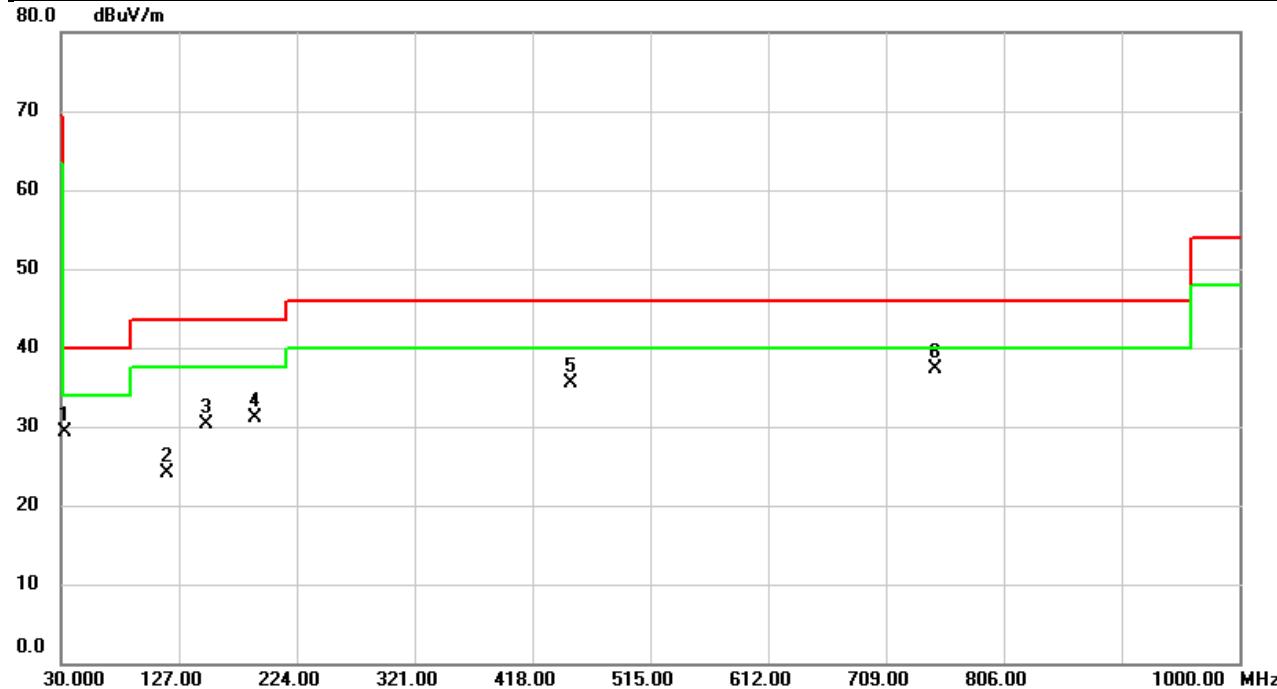
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	39.57	14.42	53.99	104.08	-50.09	QP	
2		3.5200	41.15	-3.97	37.18	69.54	-32.36	QP	
3		11.7984	43.94	-3.36	40.58	69.54	-28.96	QP	
4		20.5863	40.75	-3.84	36.91	69.54	-32.63	QP	
5		23.9931	40.34	-2.21	38.13	69.54	-31.41	QP	
6	*	27.4270	46.51	-0.58	45.93	69.54	-23.61	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	TX	Test Date	2024/1/15
Test Frequency	125kHz	Polarization	Vertical
Temp	21°C	Hum.	57%

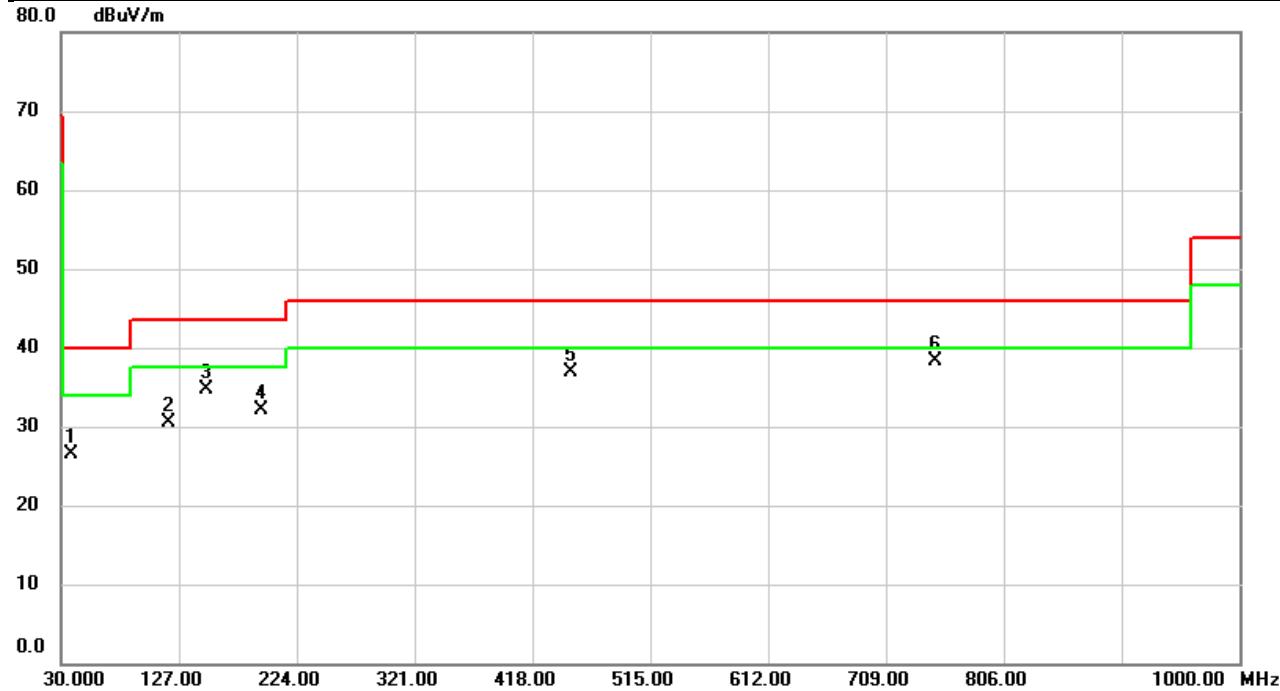


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		33.0715	42.06	-12.78	29.28	40.00	-10.72	peak	
2		116.9441	38.60	-14.51	24.09	43.50	-19.41	peak	
3		149.9890	42.04	-11.77	30.27	43.50	-13.23	peak	
4		189.5971	45.45	-14.42	31.03	43.50	-12.47	peak	
5		450.0100	42.65	-7.15	35.50	46.00	-10.50	peak	
6	*	750.0310	38.81	-1.46	37.35	46.00	-8.65	peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX	Test Date	2024/1/15
Test Frequency	125kHz	Polarization	Horizontal
Temp	21°C	Hum.	57%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.8570	38.49	-11.98	26.51	40.00	-13.49	peak	
2		118.6902	44.97	-14.39	30.58	43.50	-12.92	peak	
3		149.9890	46.50	-11.77	34.73	43.50	-8.77	peak	
4		194.8676	46.98	-14.84	32.14	43.50	-11.36	peak	
5		450.0100	44.08	-7.15	36.93	46.00	-9.07	peak	
6	*	750.0310	39.67	-1.46	38.21	46.00	-7.79	peak	

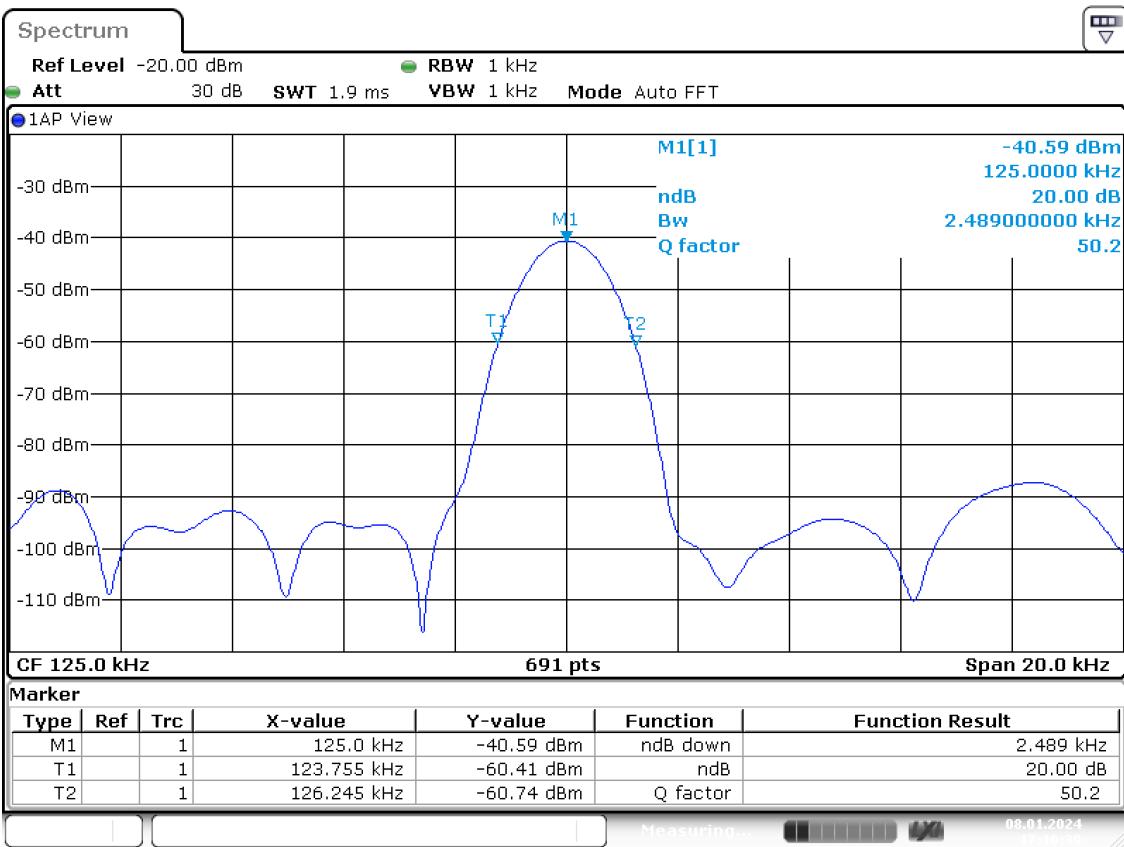
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D 20 DB BANDWIDTH

Test Mode	TX
-----------	----

Frequency (KHz)	20dB Bandwidth (KHz)	Operated Frequency Range (KHz)	Result
125.00	2.49	127.49	Complied



Date: 8.JAN.2024 17:16:39

End of Test Report