

FCC Radio Test Report

FCC ID: 2AQ5DPZM0002BK

Report No. : BTL-FCCP-1-1912T111
Equipment : PAZ NITE Illuminated Wireless Charging Stand
Model Name : PZM0002BK
Brand Name : PAZ
Applicant : Imprint Co., Ltd.
Address : 13F-1, No., 2, Jian 8th Rd., Zhonghe Dist., New Taipei City, 235 Taiwan
Manufacturer : Imprint Co., Ltd.
Address : 13F-1, No., 2, Jian 8th Rd., Zhonghe Dist., New Taipei City, 235 Taiwan

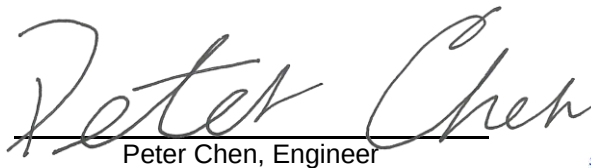
Radio Function : WPC-Qi

FCC Rule Part(s) : FCC Part15, Subpart C (15.209)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2019/12/24
Date of Test : 2019/12/24 ~ 2020/1/2
Issued Date : 2020/2/14

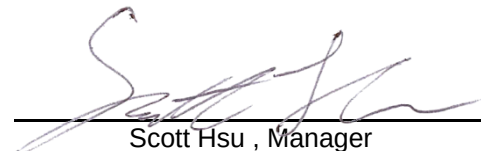
The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by :


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

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, 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** 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 Version	Description	Issued Date
R00	Original Issue.	2020/2/10
R01	Revised power rating.	2020/2/11
R02	Revised power rating.	2020/2/11
R03	Revised Typo.	2020/2/14

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Part 15, Subpart C (15.209)				
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 facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 355421 and DN: TW1099.

☒ C05 ☐ CB08 ☐ CB11 ☐ CB15 ☐ CB16
☒ SR06

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

The test sites and facilities are covered under FCC RN: 325517 and DN: TW1115.

☐ C03 ☒ CB18 ☐ CB19

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_{CISPR} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions below 1 GHz test :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB18 (3m)	CISPR	30MHz ~ 200MHz	V	4.20
		30MHz ~ 200MHz	H	3.64
		200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	H	3.90

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	Tested by
AC Power Line Conducted Emissions	23 °C, 67 %	Jay Kao
Radiated emissions (9KHz-30MHz)	23 °C, 65 %	Hunter Chiang
Radiated emissions (30MHz TO 1000MHz)	23 °C, 65 %	Hunter Chiang
20 dB Bandwidth	22 °C, 67 %	Eric Lee

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	PAZ NITE Illuminated Wireless Charging Stand
Model Name	PZM0002BK
Brand Name	PAZ
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
EUT Power Rating	I/P: 5V~2A, 9V~1.67A(max) O/P: 5W / 7.5W / 10W
Adapter Power Rating	I/P: 100-240Vac, 50/60Hz, 0.45A Max O/P: 3.6-6.0Vdc, 3A / 6V-9Vdc, 2A / 9-12Vdc, 1.5A
Products Covered	1 * Adapter: PAZ/ W0920U-1U05F
Frequency Range	110 KHz ~ 205 KHz
Modulation Technology	ASK
Max H-field strength	81.38 dBuV/m
Test Model	PZM0002BK
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

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

(2) Channel List:

Channel	Frequency (KHz)
01	128

(3) Table for Filed Antenna:

Ant.	Brand	Test Model	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Coil	N/A	N/A

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	WPC_Normal	-	-
Radiated emissions (9KHz-30MHz)	Transmit	01	-
Radiated emissions (30MHz TO 1000MHz)	Transmit	01	-
20 dB Bandwidth	Transmit	01	-

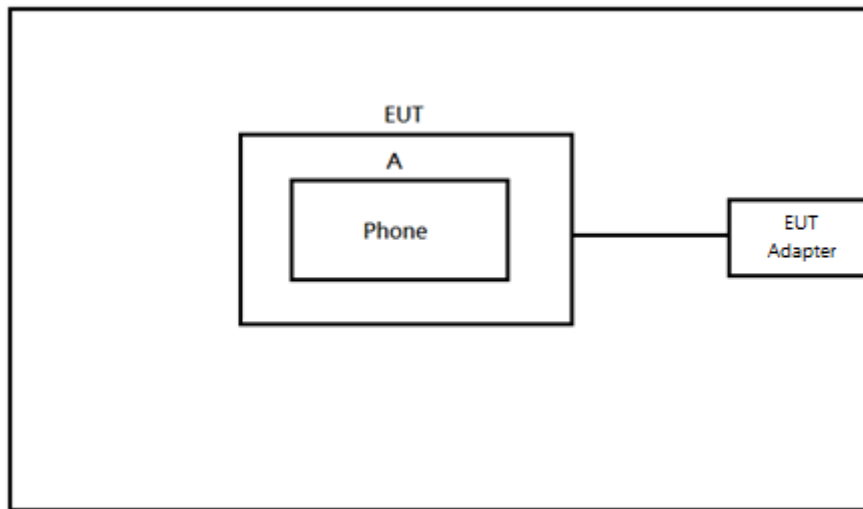
NOTE:

(1) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

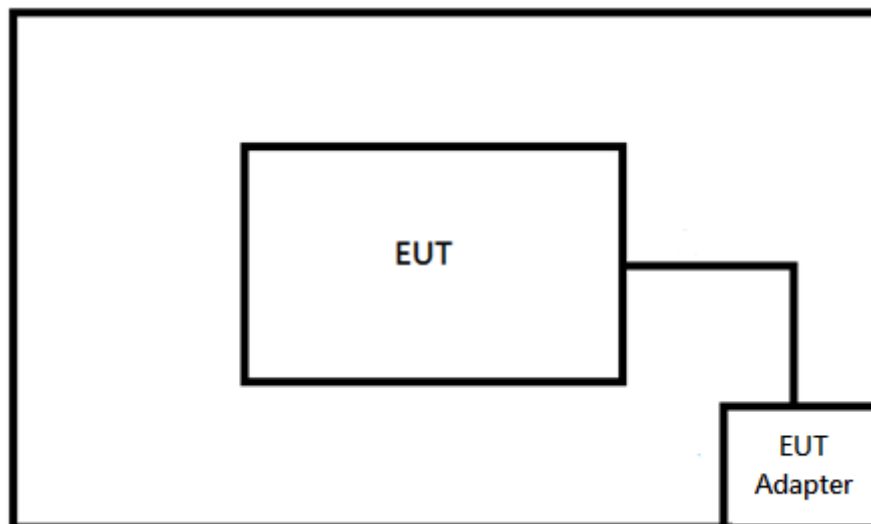
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Phone	Apple	A1921	N/A	-

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
-	-	-	-	-	-

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	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		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
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.

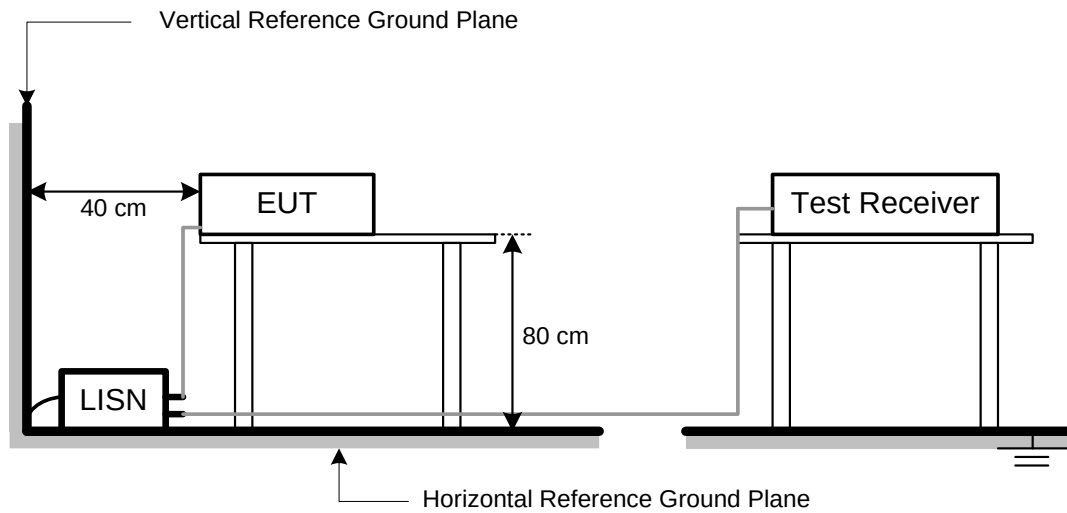
NOTE:

- (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 (dBuV/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		Correct Factor		Measurement Value
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
21.22	-	54	=	-32.78

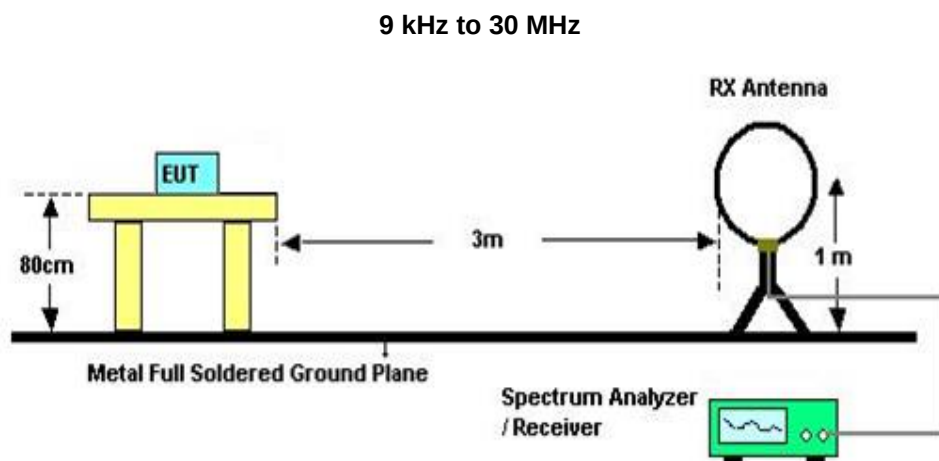
4.2 TEST PROCEDURE

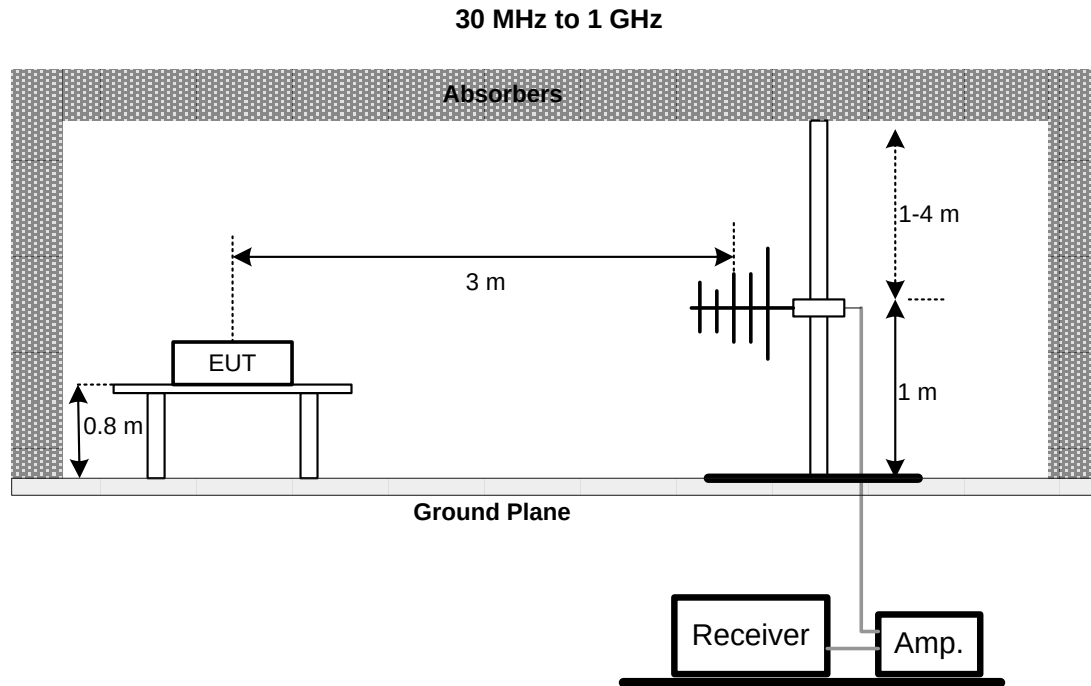
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The height of the equipment 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.
- 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. (below 1 GHz)
- 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	101050	2019/3/18	2020/3/17
2	Test Cable	EMCI	EMCCFD300-BM-BMR-6000	170715	2019/8/7	2020/8/6
3	EMI Test Receiver	R&S	ESR7	101433	2019/12/11	2020/12/9
4	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC001340	980555	2019/4/12	2020/4/11
2	Preamplifier	EMCI	EMC02325B	980217	2019/4/12	2020/4/11
3	Test Cable	EMCI	EMC104-SM-SM-800	150207	2019/4/12	2020/4/11
4	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2019/4/12	2020/4/11
5	Test Cable	EMCI	EMC-SM-SM-7000	180408	2019/4/12	2020/4/11
6	MXE EMI Receiver	Agilent	N9038A	MY55420127	2019/3/26	2020/3/25
7	Signal Analyzer	Agilent	N9010A	MY56480554	2019/6/6	2020/6/5
8	Loop Ant	EMCO	EMCI-LPA600	274	2019/5/31	2020/5/30
9	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	000992	2019/5/29	2020/5/28
10	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0508	2019/5/29	2020/5/28

20 dB Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP40	100129	2019/5/23	2020/5/22

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

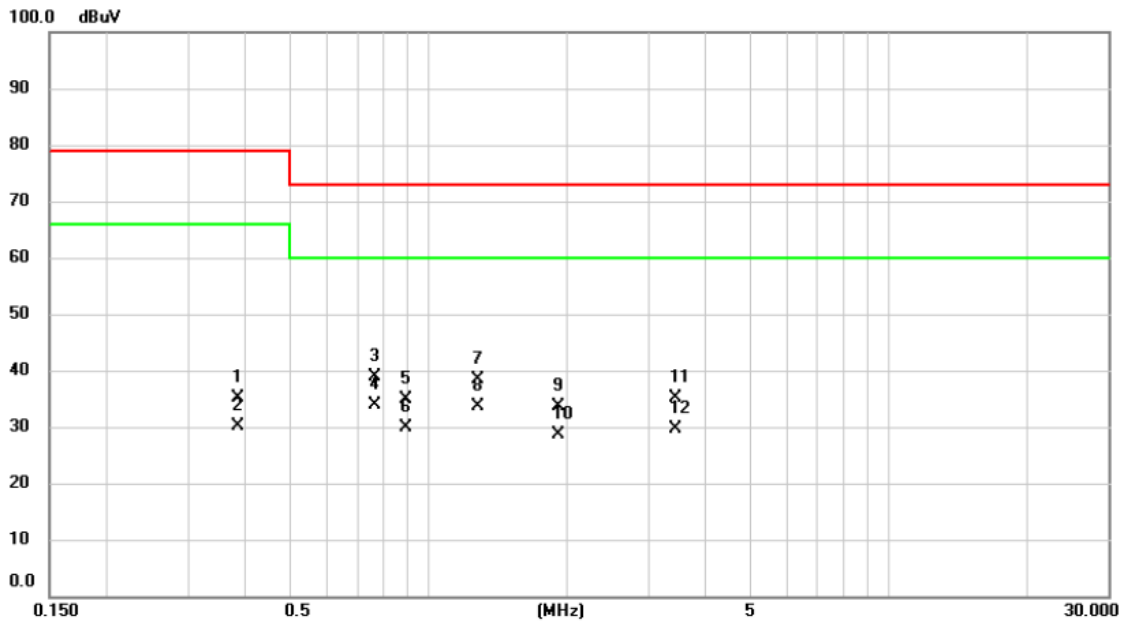
Please refer to document Appendix No.: TP-1912T111-1 (APPENDIX-TEST PHOTOS).

8 EUT PHOTOS

Please refer to document Appendix No.: EP-1912T111-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	WPC_Normal	Tested Date	2019/12/30
Test Voltage	AC 120V/60Hz	Phase	Line

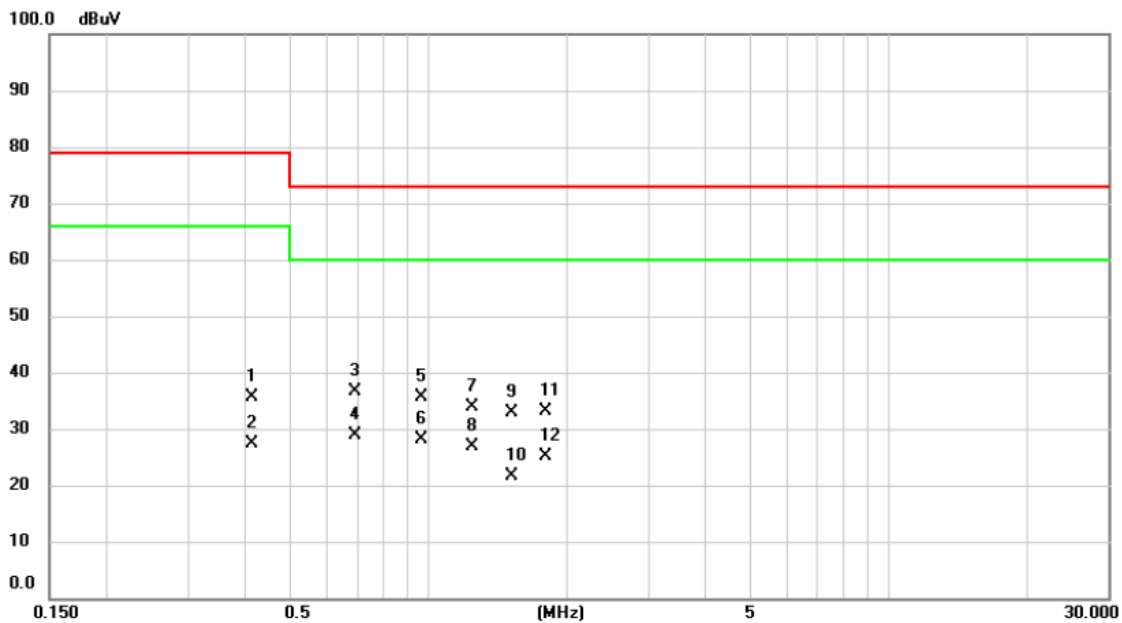


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3840	25.47	9.62	35.09	79.00	-43.91	QP	
2		0.3840	20.52	9.62	30.14	66.00	-35.86	AVG	
3		0.7665	29.23	9.64	38.87	73.00	-34.13	QP	
4	*	0.7665	24.16	9.64	33.80	60.00	-26.20	AVG	
5		0.8947	25.22	9.62	34.84	73.00	-38.16	QP	
6		0.8947	20.33	9.62	29.95	60.00	-30.05	AVG	
7		1.2795	28.83	9.65	38.48	73.00	-34.52	QP	
8		1.2795	24.10	9.65	33.75	60.00	-26.25	AVG	
9		1.9185	23.94	9.67	33.61	73.00	-39.39	QP	
10		1.9185	19.00	9.67	28.67	60.00	-31.33	AVG	
11		3.4530	25.45	9.72	35.17	73.00	-37.83	QP	
12		3.4530	19.94	9.72	29.66	60.00	-30.34	AVG	

REMARKS:

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

Test Mode	WPC_Normal	Tested Date	2019/12/30
Test Voltage	AC 120V/60Hz	Phase	Neutral



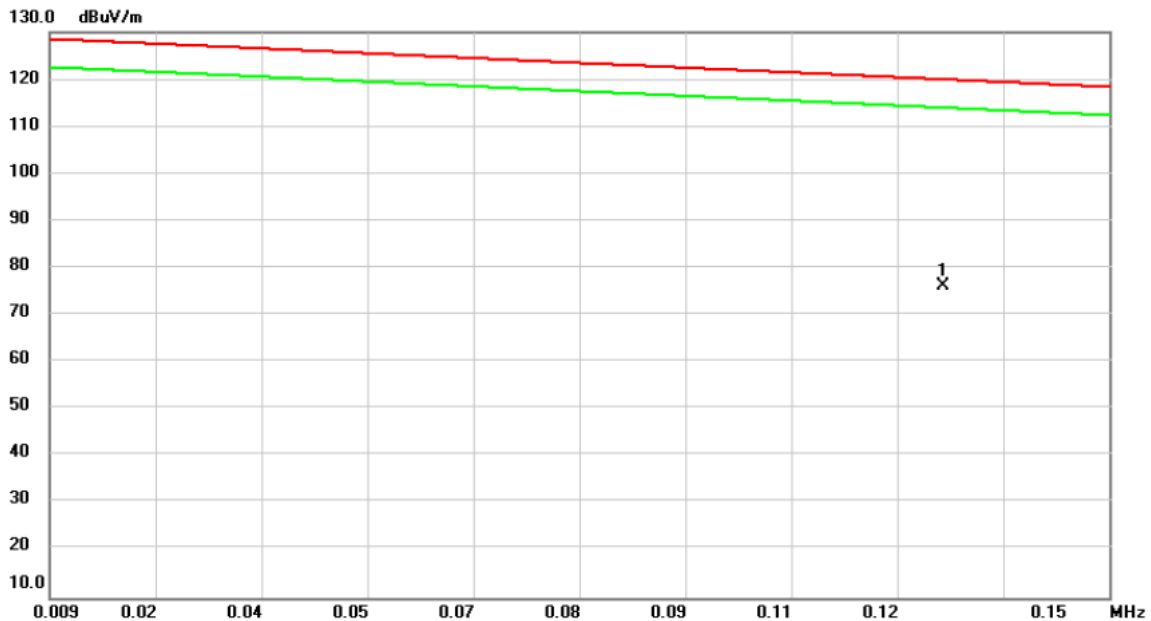
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4132	25.97	9.67	35.64	79.00	-43.36	QP	
2		0.4132	17.78	9.67	27.45	66.00	-38.55	AVG	
3		0.6900	26.90	9.69	36.59	73.00	-36.41	QP	
4	*	0.6900	19.10	9.69	28.79	60.00	-31.21	AVG	
5		0.9645	26.03	9.67	35.70	73.00	-37.30	QP	
6		0.9645	18.47	9.67	28.14	60.00	-31.86	AVG	
7		1.2412	24.28	9.69	33.97	73.00	-39.03	QP	
8		1.2412	17.22	9.69	26.91	60.00	-33.09	AVG	
9		1.5180	23.07	9.70	32.77	73.00	-40.23	QP	
10		1.5180	11.85	9.70	21.55	60.00	-38.45	AVG	
11		1.7925	23.53	9.71	33.24	73.00	-39.76	QP	
12		1.7925	15.42	9.71	25.13	60.00	-34.87	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	Transmit 128KHz	Tested Date	2020/1/2
Test Voltage	AC 120V/60Hz	Azimuth Angle	90°

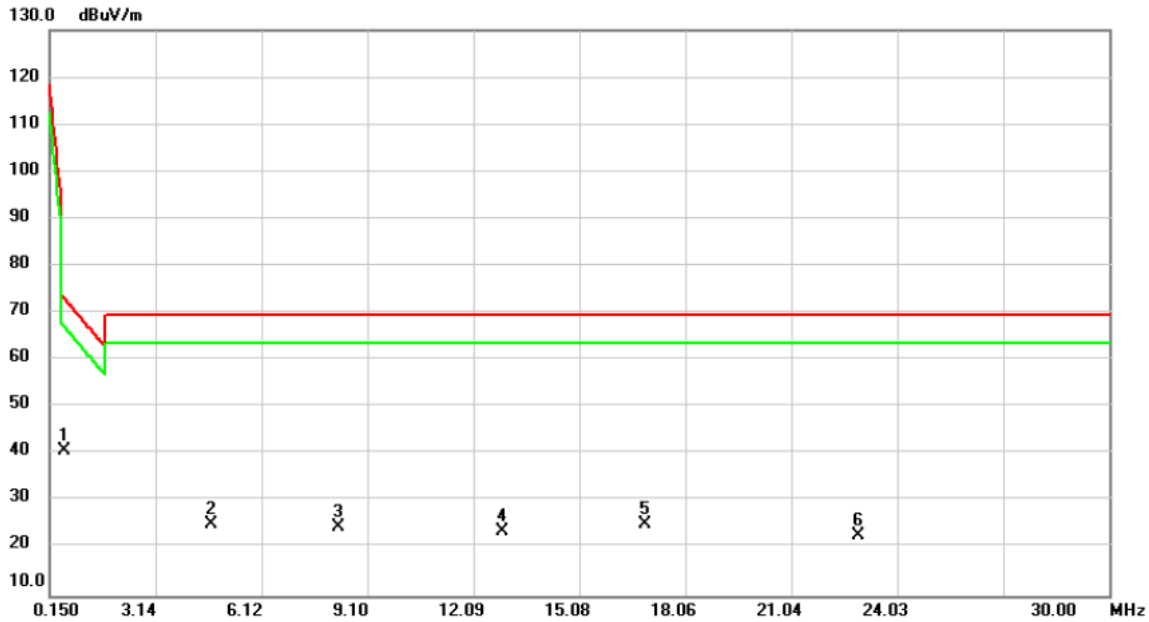


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.1280	61.01	15.00	76.01	119.93	-43.92	peak

REMARKS:

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

Test Mode	Transmit 128KHz	Tested Date	2020/1/2
Test Voltage	AC 120V/60Hz	Azimuth Angle	90°

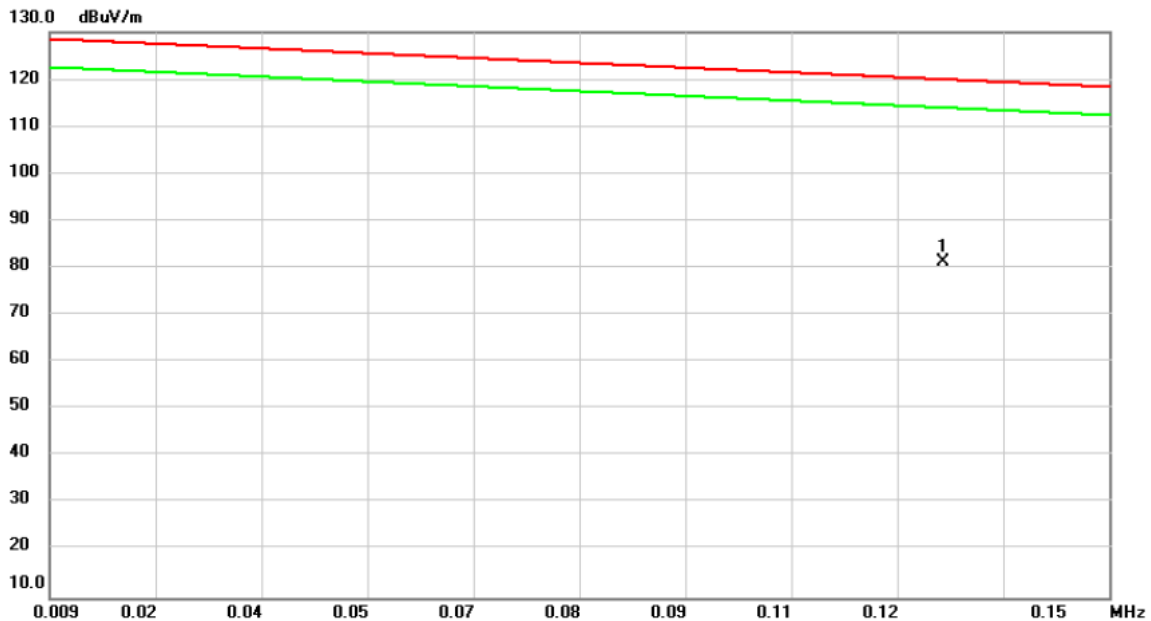


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.5680	37.19	3.48	40.67	73.10	-32.43	peak	
2		4.6872	28.69	-3.48	25.21	69.54	-44.33	peak	
3		8.2990	28.34	-3.89	24.45	69.54	-45.09	peak	
4		12.8960	27.50	-3.99	23.51	69.54	-46.03	peak	
5		16.9257	29.75	-4.69	25.06	69.54	-44.48	peak	
6		22.9553	28.61	-5.93	22.68	69.54	-46.86	peak	

REMARKS:

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

Test Mode	Transmit 128KHz	Tested Date	2020/1/2
Test Voltage	AC 120V/60Hz	Azimuth Angle	0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.1280	66.38	15.00	81.38	119.93	-38.55	peak

REMARKS:

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

Test Mode	Transmit 128KHz	Tested Date	2020/1/2
Test Voltage	AC 120V/60Hz	Azimuth Angle	0°



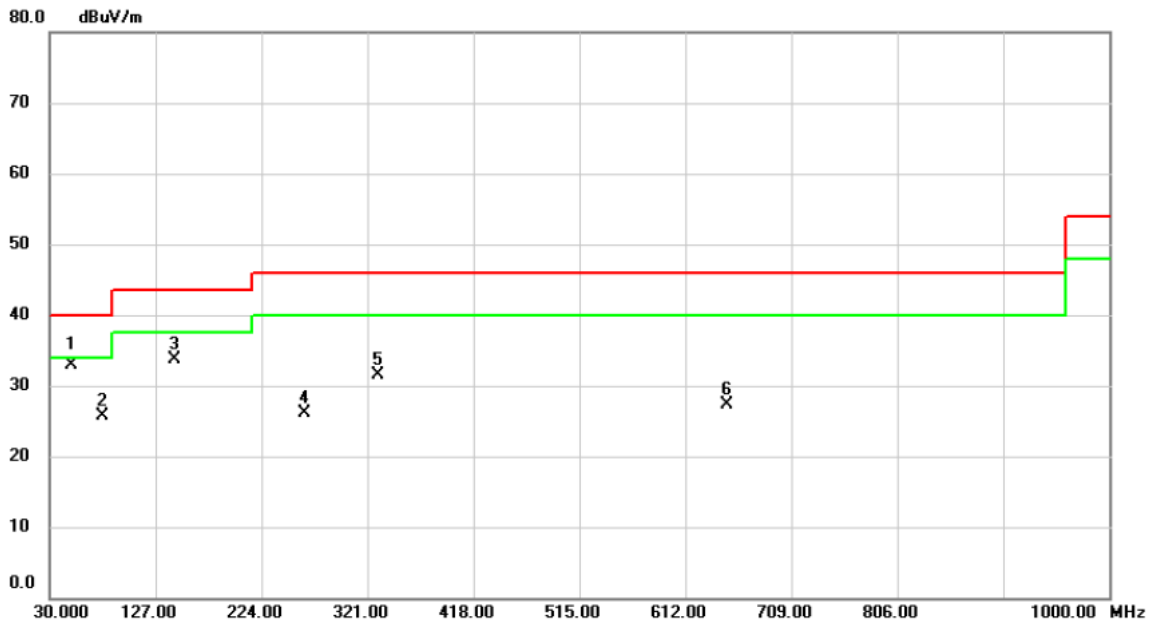
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.5381	51.09	3.74	54.83	73.37	-18.54	peak	
2		0.8664	45.62	0.77	46.39	70.44	-24.05	peak	
3		1.5828	36.46	-1.27	35.19	64.06	-28.87	peak	
4		6.7470	29.20	-3.63	25.57	69.54	-43.97	peak	
5		9.4931	28.61	-4.10	24.51	69.54	-45.03	peak	
6		18.0898	28.07	-5.07	23.00	69.54	-46.54	peak	

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	Transmit 128KHz	Tested Date	2020/1/2
Test Voltage	AC 120V/60Hz	Polarization	Vertical

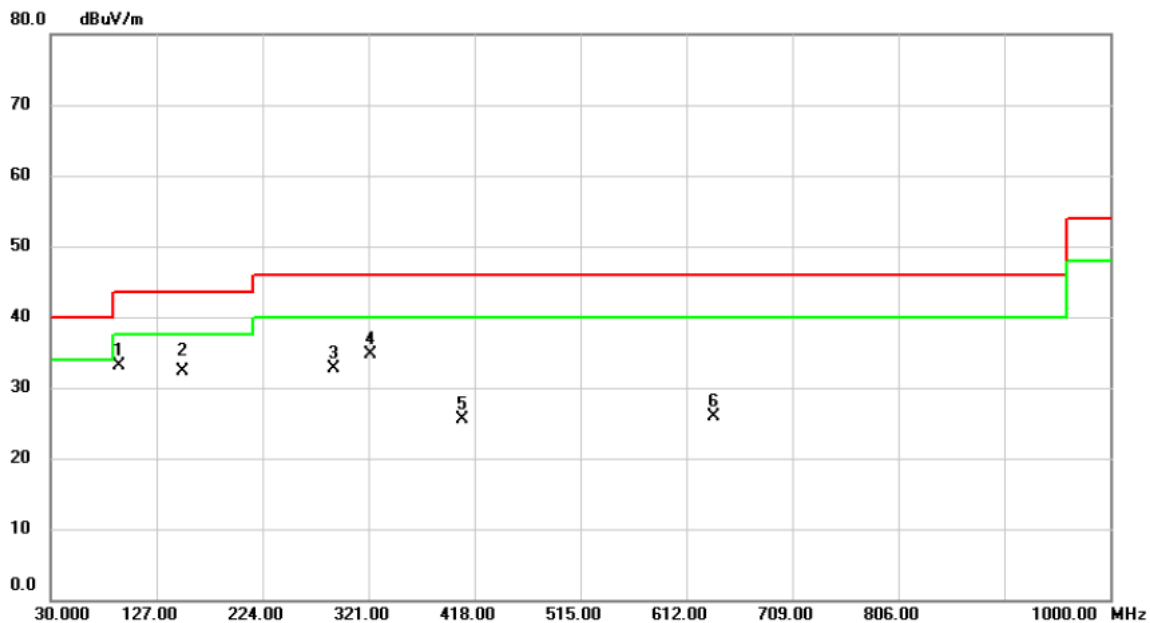


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	50.3700	44.65	-11.75	32.90	40.00	-7.10	QP	
2		78.5000	41.26	-15.47	25.79	40.00	-14.21	peak	
3		144.4600	45.69	-12.05	33.64	43.50	-9.86	peak	
4		263.7700	38.34	-12.26	26.08	46.00	-19.92	peak	
5		330.7000	41.27	-9.83	31.44	46.00	-14.56	peak	
6		650.8000	30.16	-2.93	27.23	46.00	-18.77	peak	

REMARKS:

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

Test Mode	Transmit 128KHz	Tested Date	2020/1/2
Test Voltage	AC 120V/60Hz	Polarization	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	92.0800	50.34	-17.23	33.11	43.50	-10.39	peak	
2		150.2800	43.91	-11.63	32.28	43.50	-11.22	QP	
3		289.9600	43.39	-10.75	32.64	46.00	-13.36	peak	
4		322.9400	44.82	-10.13	34.69	46.00	-11.31	peak	
5		406.3600	33.72	-8.30	25.42	46.00	-20.58	peak	
6		637.2200	29.19	-3.29	25.90	46.00	-20.10	peak	

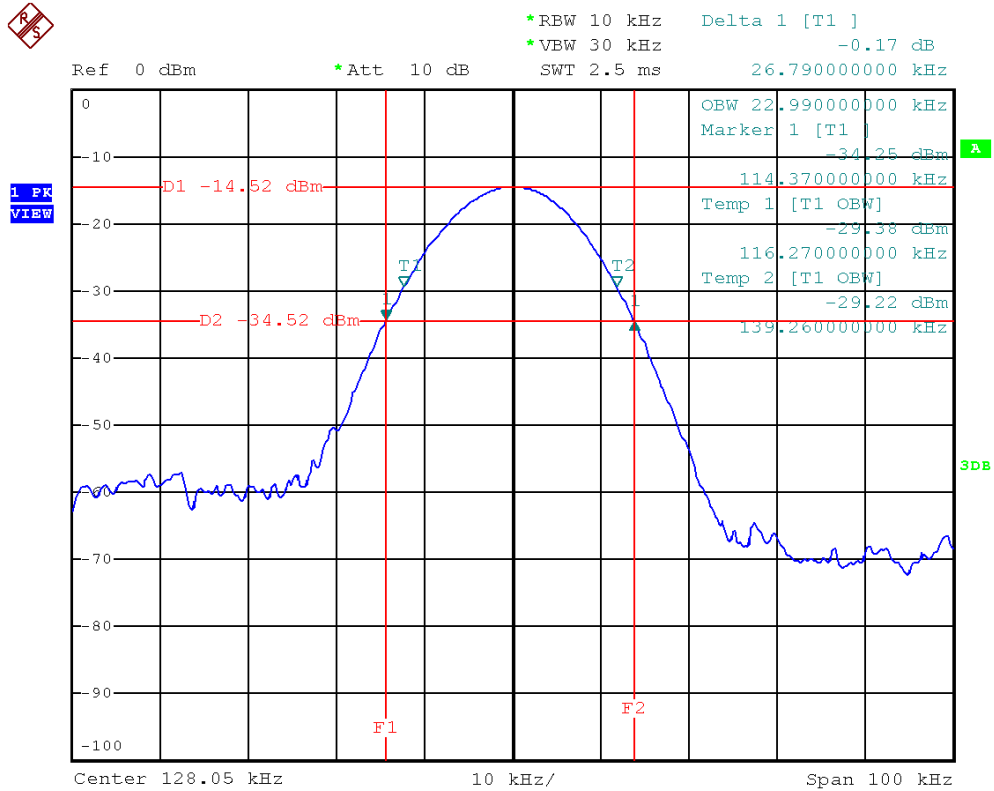
REMARKS:

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

APPENDIX D 20 DB BANDWIDTH

Test Mode	Transmit 128KHz
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Frequency (KHz)	20 dB Bandwidth (KHz)	Operated Frequency Range (KHz)	Result
128	26.79	22.99	Complied



Date: 26.DEC.2019 17:06:57

End of Test Report