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TEST REPORT

Application No.: BTEK240612014AE

Applicant: ZAGG INC.

Address of Applicant: 910 West Legacy Center Way Midvale, UT 84047

Manufacturer: ZAGG INC.

Address of Manufacturer: 910 West Legacy Center Way Midvale, UT 84047

Equipment Under Test (EUT):

EUT Name: Magnetic Wireless Charger

Test Model.: ZBAGUNISC349

Trade Mark: ZAGG

FCC ID: QTG-ZWCIHSTK

Standard(s): 47 CFR Part 15 Subpart C

Date of Receipt: 2024-06-13

Date of Test: 2024-06-13 to 2024-06-27

Date of Issue: 2024-07-17

Test Result: Pass*

Ción Car

Lion Cai/ Approved & Authorized EMC Laboratory Manager

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 $\label{eq:commutation} \textit{Tel}: + (86)755-2334\ 4200 \qquad \textit{E-mail}: Service@btek-lab.com \qquad \textit{Web}: www.btek-lab.com$



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



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Revision Record							
Version Chapter Date Modifier Remark							
V0		2024-06-28		Original			
V1		2024-07-17		1.Updated page 3,5,9,14			
				0,0,3,14			

Authorized for issue by		
BTEX. 30	Zora. Huang	
	Zora Huang/Project Engineer	
	June Li	
	June Li /Reviewer	

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.

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2 Test Summary

Item	Document Title
47 CFR Part 15, Subpart C	Intentional Radiators
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Item	Standard	Result	
Antenna Requirements	15.203	Pass	
20dB Occupied Bandwidth	15.215(c)	Pass	
AC Power Line Conducted Emissions	15.207	Pass	
Spurious Emissions	15.209	Pass	

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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3 General Information

3.1 Details of E.U.T.

Power Supply	Input: DC 5V/2A,9V2A Wireless Output: 15W	0
Modulation Type	FSK	
Operating frequency	112kHz-205kHz	
Antenna Type	Coil antenna	0 0
Hardware Version	V1.0	
Software Version	V1.0	
Sample number	BTEK240612013AE-01~02	

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.2 Description of EUT Test Mode

Test Mode List		
Test Mode	Description	Remark
01	Full Load	Adapter charge with 9V/2A+output with Wireless Charger 15W
02	Half Load	Adapter charge with 5V/2A+output with Wireless Charger 10W
03	No Load	Keep the EUT standby mode

Remark:1.Adapter charge with 9V/2A+output with Wireless Charger 15W was worse case mode. Only show the worst case in the test report

3.3 Description of Support Units

Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
Adapter	HUAWEI	HW-100400C00	1
Cement load	Bantek	1	/

3.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2 and TR100 028-1/-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value	
Occupied Channel Bandwidth	69 KHz	
RF output power, conducted	0.87 dB	
Power Spectral Density, conducted	0.69 dB	
Unwanted Emissions, conducted	0.94 dB	
All emissions, radiated(<1GHz)	4.12 dB	
All emissions, radiated(>1GHz)	4.16 dB	
Temperature	0.82 °C	

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Humidity	4.1 %

3.5 Test Location

All tests were performed at:

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Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200

FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None

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4 Equipment List

RF Conducted	///				
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT- 220304-03	2022-03-03	2025-03-02
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2024-06-11	2025-06-10
DC Power Supply	E3632A	E3642A	KR75304416	2024-06-11	2025-06-10
Attenuator	RswTech	SMA-JK-6dB	N/A	2024-06-11	2025-06-10
Attenuator	RswTech	SMA-JK-3dB	N/A	2024-06-11	2025-06-10
RF Control Unit	Techy	TR1029-1	N/A	2024-06-11	2025-06-10
RF Sensor Unit	Techy	TR1029-2	N/A	2024-06-11	2025-06-10
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2024-06-11	2025-06-10
Programmable Temperature&Humidity Chamber	GRT	GR- HWX1000	GR22051001	2024-06-11	2025-06-10
Measurement Software	TACHOY	RF TestSoft	N/A	N/A	N/A

Radiated Method Tes	st				
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
3m Semi-Anechoic Chamber	YIHENG ENECTRONIC	966	YH-BT- 220304-01	2022-05-06	2025-05-05
EMI Test Receiver	Rohde&Schwarz	ESCI	100694	2024-06-11	2025-06-10
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01324	2024-06-16	2025-06-15
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2024-06-11	2025-06-10
Loop Antenna	ETS	6502	00201177	2024-06-15	2025-06-14
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	O N/A	N/A	N/A

Conducted Tes	st				
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Shielding Room	YIHENG ENECTRONIC	9*5*3.3	YH-BT-220304-04	2022-03-03	2025-03-02
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2024-06-11	2025-06-10
Measurement Software	Fara	EZ_EMC Ver. FA- 03A2	N/A	N/A	N/A
LISN	Rohde&Schwarz	ENV216	101472	2024-06-11	2025-06-10
LISN	Schwarzbeck	NSLK 8128	05127	2024-06-11	2025-06-10
Pulse Limiter	Schwarzbeck	VTSD 9561 F-N	00890	2024-06-11	2025-06-10

General used equipment					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Humidity/Temperature/Barometric Pressure Indicator	KUMAR	F132	N/A	2024-06-11	2025-06-10
Humidity/Temperature/Barometric Pressure Indicator	KUMAR	F132	N/A	2024-06-11	2025-06-10

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5 Radio Spectrum Technical Requirement

5.1 Antenna Requirement

5.1.1 Test Requirement:

Test Requirement FCC §15.203;

5.1.2 Conclusion

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with

§ 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

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6 Radio Spectrum Matter Test Results

6.1 20dB Occupied Bandwidth

Test Requirement FCC Part 15.215(c)

6.1.1 E.U.T. Operation

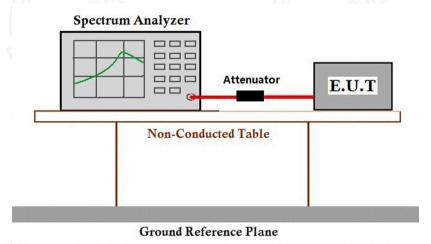
Operating Environment:

Temperature: 25.7 °C

Humidity: 53.2 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

cable loss=0.9

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- 3. Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW≥1% of the 20 dB bandwidth, VBW ≥ RBW

Sweep = auto, Detector function = peak, Trace = max hold

4. Measure and record the results in the test report.

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Worst case mode 1

Freq. (kHz)	20 dB bandwidth Result (kHz)	Conclusion
123	2.671	PASS



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6.2 AC Power Line Conducted Emissions

Test Requirement

47 CFR Part 15, Subpart C 15.207

Test Method:

Limit:

Francisco (MIII-)	Conducted	d limit(dBµV)
Frequency of emission(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the	e frequency.	lim.
Detector: Peak for pre-scan (9kHz r	esolution bandwidth) 0.15M to 3	0MHz

6.2.1 E.U.T. Operation

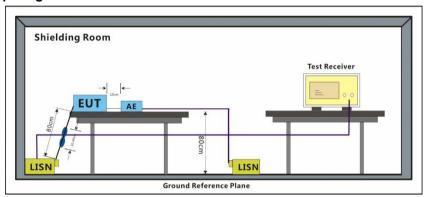
Operating Environment:

Temperature: 25.7 °C

Humidity: 57.2 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Setup Diagram



6.2.3 Measurement Procedure and Data

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be remeasured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor Note:Level (dBuV) = Reading (dBuV) + Factor (dB)

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Test 1	node:		W	orst case 1			Polarit	y:		N	Veutral
100.0	lBuV	7. J. C.	11	7		0	10,		1//3		70
90											
80	-										
70											
60		_							FCC F	Part 15C Class B_	QP .
50		_				7	9		FCC F	art 15C Class B	AVe
40	MA	harde	Warran 1	ن المسلم المسلم	dament he	, I v					hittorianidam p
30	and.	why	1	destructions of the property of	dephasemental						Who market p
20					20.00				-		
10									+		
0.0 0.150			0.500		(MH	z)	5.	000			30.000
	uency	Reading (dBuV)		Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Ren	nark	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	28.99	19.76	48.75	66.00	-17.25	QP	Р	
2	0.1500	15.22	19.76	34.98	56.00	-21.02	AVG	Р	
3	0.4065	24.07	19.84	43.91	57.72	-13.81	QP	Р	
4	0.4065	14.13	19.84	33.97	47.72	-13.75	AVG	Р	
5	0.6675	22.49	19.91	42.40	56.00	-13.60	QP	Р	
6	0.6675	13.59	19.91	33.50	46.00	-12.50	AVG	Р	
7	2.9670	23.75	20.19	43.94	56.00	-12.06	QP	Р	1
8	2.9670	15.53	20.19	35.72	46.00	-10.28	AVG	Р	
9	4.3530	26.48	20.19	46.67	56.00	-9.33	QP	Р	
10 *	4.3530	19.96	20.19	40.15	46.00	-5.85	AVG	Р	
11	8.2319	27.09	20.59	47.68	60.00	-12.32	QP	Р	
12	8.2319	23.42	20.59	44.01	50.00	-5.99	AVG	Р	

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	Test mod	le:		Wo	rst case 1			Polarity:			Line	
100.0	g dBuV											
90												
80												
70												
60	1	_							FCC	Part 15C C	lass B_QP	-
50	Ť	-		3				5 7	FCC	Part 15C C	lass B_AVe	
40	Lumily	wh	w Jarrell	hours they	merel beneficial an	Market William	wherethe		Limber MA		William Commonwell	he pe
30	Low	when	An	may all all all all all all all all all a	here harbane	Hall-Jaken					Mary Mary Mary Mary Mary Mary Mary Mary	AV
20		-										-
10 0.0												
	150		0.5	500		(MHz)	5.000)		30	0.000
	Frequenc	cv Rea	dina	Factor	Level	Limit	Margin					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2310	33.19	19.80	52.99	62.41	-9.42	QP	Р	
2	0.2310	11.88	19.80	31.68	52.41	-20.73	AVG	Р	
3	0.7215	23.72	19.92	43.64	56.00	-12.36	QP	Р	
4	0.7215	14.59	19.92	34.51	46.00	-11.49	AVG	Р	
5	3.7275	26.44	20.21	46.65	56.00	-9.35	QP	Р	
6 *	3.7275	22.61	20.21	42.82	46.00	-3.18	AVG	Р	
7	4.3395	24.90	20.23	45.13	56.00	-10.87	QP	Р	
8	4.3395	18.98	20.23	39.21	46.00	-6.79	AVG	Р	
9	8.8890	26.09	20.76	46.85	60.00	-13.15	QP	Р	
10	8.8890	22.25	20.76	43.01	50.00	-6.99	AVG	Р	
11	12.6195	25.28	21.13	46.41	60.00	-13.59	QP	Р	
12	12.6195	19.32	21.13	40.45	50.00	-9.55	AVG	Р	

NOTE:

- 1.Level (dBuV) = Reading (dBuV) + Factor (dB)
- 2.Factor = Insertion Loss + Cable Loss.
- 3.Margin = Level Limit.

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6.3 Radiated Spurious Emissions

Test Requirement FCC §15.209

Test Method:

Limit:

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a). According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

		FCC Par	t 15.209				
Frequency	Field Streng Limitation		Field Strength Limitation Frequency tion at 3 Measurement Dist				
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)			
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80			
0.490 - 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40			
1.705 - 30.00	30	30m	100* 30	20log 30 + 40			
30.0 - 88.0	100	3m	100	20log 100			
88.0 - 216.0	150	3m	150	20log 150			
216.0 - 960.0	200	3m	200	20log 200			
Above 960.0	500	3m	500	20log 500			

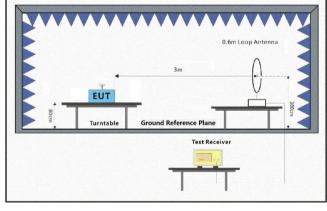
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

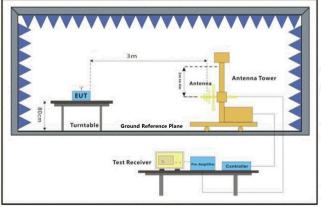
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 57.4 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Setup Diagram





9KHz~30MHz

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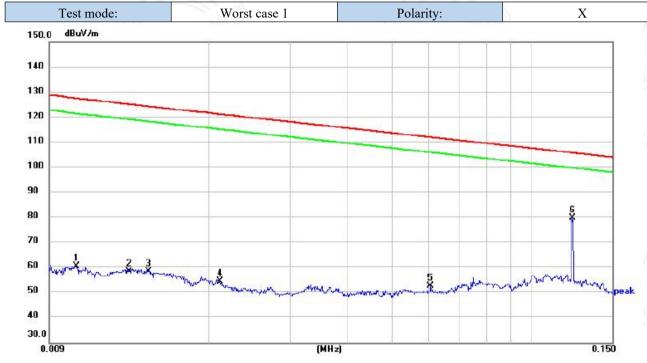
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6.3.3 Measurement Procedure and Data

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

9 kHz ~ 30 MHz





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.0103	91.18	-30.32	60.86	127.35	-66.49	peak
2	0.0134	89.04	-30.34	58.70	125.06	-66.36	peak
3	0.0148	88.99	-30.36	58.63	124.20	-65.57	peak
4	0.0211	85.25	-30.40	54.85	121.12	-66.27	peak
5	0.0604	83.71	-30.80	52.91	111.98	-59.07	peak
6 *	0.1230	111.02	-31.19	79.83	105.81	-25.98	peak

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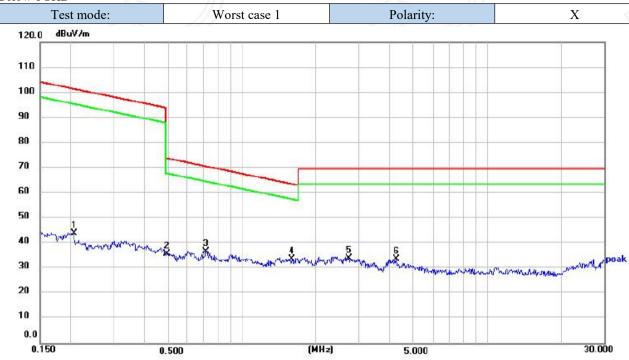
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Below 1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.2061	75.03	-31.15	43.88	101.32	-57.44	peak
2	0.4914	66.89	-31.05	35.84	73.78	-37.94	peak
3	0.7120	67.60	-30.96	36.64	70.55	-33.91	peak
4 *	1.6019	64.47	-30.82	33.65	63.51	-29.86	peak
5	2.7210	64.94	-30.83	34.11	69.54	-35.43	peak
6	4.2465	64.56	-30.84	33.72	69.54	-35.82	peak

Note:

- 1). Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)
- 2). Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)-Pre Amplifier gain(dB)
- 3). Margin(dB)=Limit(dBuV/m)-Level(dBuV/m)
- 4) This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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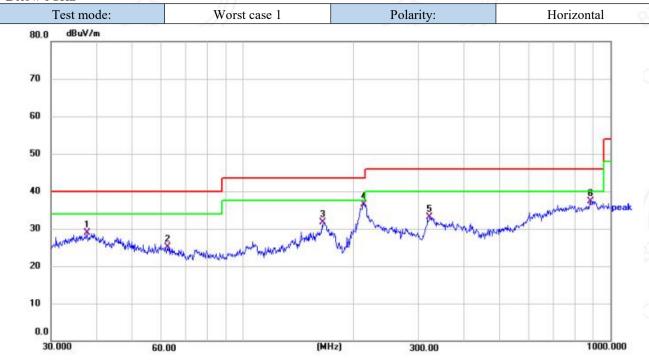






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Below 1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	37.5478	45.97	-17.15	28.82	40.00	-11.18	QP	100	360	Р	
2	62.2128	43.46	-18.40	25.06	40.00	-14.94	QP	100	360	Р	
3	165.4866	49.56	-17.80	31.76	43.50	-11.74	QP	100	360	Р	
4 *	213.0150	57.49	-20.91	36.58	43.50	-6.92	QP	100	360	Р	
5	322.1884	50.03	-17.01	33.02	46.00	-12.98	QP	100	360	Р	
6	881.4067	45.53	-8.14	37.39	46.00	-8.61	QP	100	360	Р	

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Polarity: Test mode: Worst case 1 Vertical dBuV/m 80.0 70 60 50 40 30 20 10 0.0 30.000 (MHz) 1000.000 60.00 300.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	37.4164	51.44	-17.17	34.27	40.00	-5.73	QP	100	0	Р	
2	74.6568	50.44	-20.90	29.54	40.00	-10.46	QP	100	0	Р	
3	143.8294	49.83	-17.26	32.57	43.50	-10.93	QP	100	0	Р	
4	166.6512	53.31	-17.98	35.33	43.50	-8.17	QP	100	0	Р	
5	210.7860	56.92	-21.09	35.83	43.50	-7.67	QP	100	0	Р	
6	731.9202	46.91	-8.96	37.95	46.00	-8.05	QP	100	0	Р	

NOTE:

1.Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2.Factor = Antenna Factor+ Cable Loss-Preamp Factor

3.Margin = Level - Limit.



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7 Test Setup Photo

Please refer to the Appendix test setup Photos.

8 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos.

- End of the Report -

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