



Report No.: TW2206092E

File reference No.: 2022-06-16

Applicant: TECHNOFASHION INC

Product: NAUTICA PORTABLE WIRELESS SPEAKER

Model No.: NTSP05

Trademark: N/A

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang  
Manager

Dated: June 16, 2022

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

TEST REPORT



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO 17025:2017 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The 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 No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion  
Content

<b>1.0</b>	<b>General Details</b> .....	4
1.1	Test Lab Details.....	4
1.2	Applicant Details.....	4
1.3	Description of EUT .....	4
1.4	Submitted Sample.....	4
1.5	Test Duration.....	5
1.6	Test Uncertainty.....	5
1.7	Test By.....	5
<b>2.0</b>	<b>List of Measurement Equipment</b> .....	6
<b>3.0</b>	<b>Technical Details</b> .....	7
3.1	Summary of Test Results.....	7
3.2	Test Standards.....	7
<b>4.0</b>	<b>EUT Modification</b> .....	7
<b>5.0</b>	<b>Power Line Conducted Emission Test</b> .....	8
5.1	Schematics of the Test.....	8
5.2	Test Method and Test Procedure.....	8
5.3	Configuration of the EUT.....	8
5.4	EUT Operating Condition.....	9
5.5	Conducted Emission Limit.....	9
5.6	Test Result.....	9
<b>6.0</b>	<b>Radiated Emission test</b> .....	12
6.1	Test Method and Test Procedure.....	12
6.2	Configuration of the EUT.....	13
6.3	EUT Operation Condition.....	13
6.4	Radiated Emission Limit.....	13
6.5	Test Result.....	15
<b>7.0</b>	<b>Band Edge</b> .....	23
7.1	Test Method and Test Procedure.....	23
7.2	Radiated Test Setup.....	23
7.3	Configuration of the EUT.....	23
7.4	EUT Operating Condition.....	23
7.5	Band Edge Limit.....	23
7.6	Band Edge Test Result.....	24
<b>8.0</b>	<b>Antenna Requirement</b> .....	28
<b>9.0</b>	<b>20dB bandwidth measurement</b> .....	29
<b>10.0</b>	<b>FCC ID Label</b> .....	35
<b>11.0</b>	<b>Photo of Test Setup and EUT View</b> .....	36

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: TECHNOFASHION INC  
Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014  
Telephone: +1 (973) 866 7373  
Fax: --

### 1.3 Description of EUT

Product: NAUTICA PORTABLE WIRELESS SPEAKER  
Manufacturer: TECHNOFASHION INC  
Address: 127, Kingsland Ave, Clifton, NJ, USA, 07014  
Trademark: N/A  
Model Number: NTSP05  
Additional Model Name N/A  
Rating: DC5V, 1A  
Battery: DC3.7V, 1800mAh Li-ion battery  
Modulation Type: GFSK and JI/4DQPSK for Bluetooth  
Operation Frequency: 2402-2480MHz  
Channel Number: 79  
Channel Separation: 1MHz  
Hardware Version: AC692x\_SDK\_release\_V2.6.3 -6926A  
Software Version: NYL-26A-L4-V3.0  
Antenna Designation PCB antenna with gain 0.944dBi Max (Get from the antenna specification)

### 1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2022-06-09 to 2022-06-16

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

*Andy-xing*

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209 and RSS-210</b>	<b>Radiated Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>Pass</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013**

#### 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test



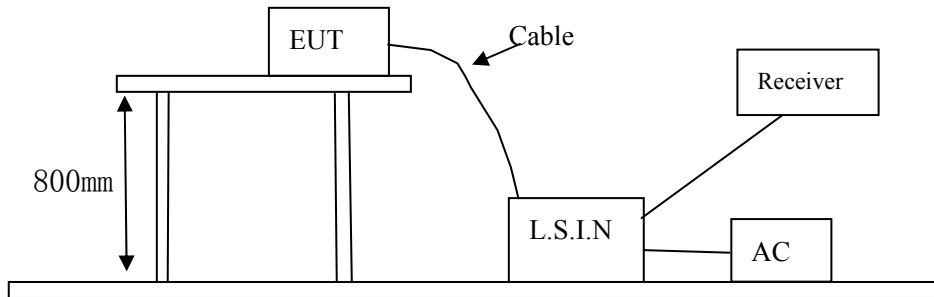
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
NAUTICA PORTABLE WIRELESS SPEAKER	TECHNOFASHION INC	NTSP05	2AZBO-N00019

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass



**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

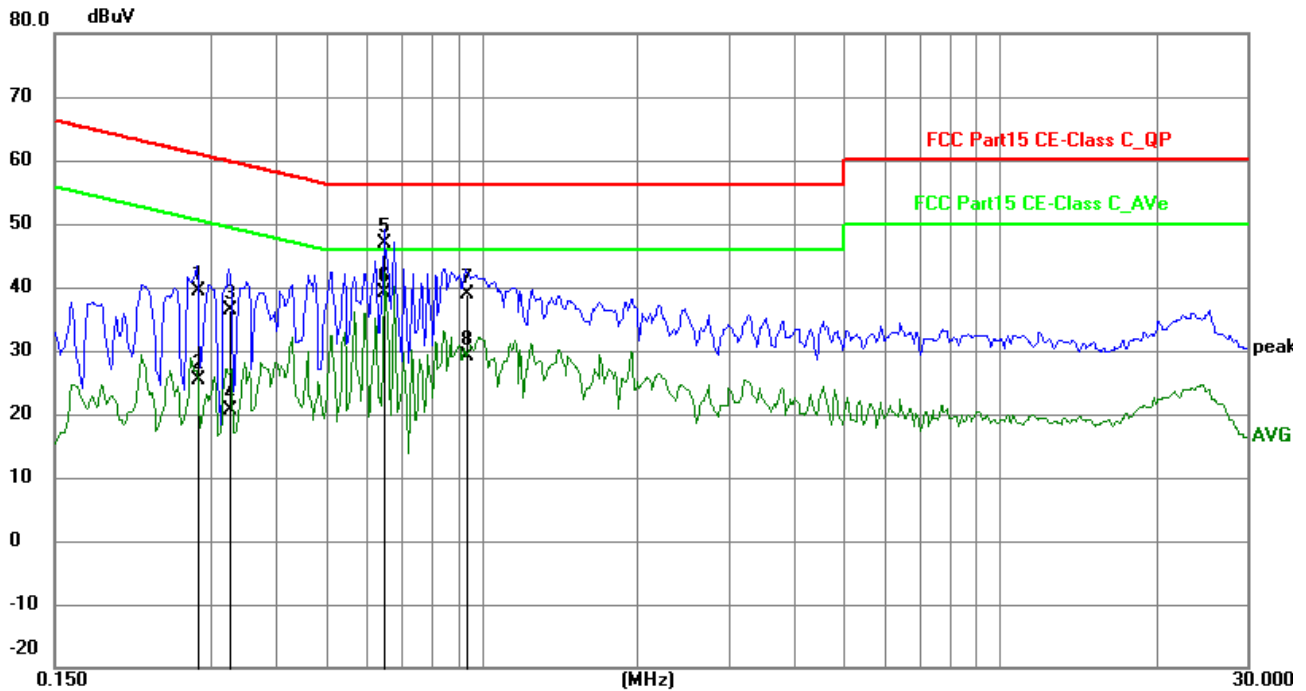
**EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2826	29.61	9.76	39.37	60.74	-21.37	QP	P
2	0.2826	15.64	9.76	25.40	50.74	-25.34	AVG	P
3	0.3255	26.51	9.76	36.27	59.57	-23.30	QP	P
4	0.3255	10.87	9.76	20.63	49.57	-28.94	AVG	P
5	0.6491	37.17	9.78	46.95	56.00	-9.05	QP	P
6	0.6491	29.33	9.78	39.11	46.00	-6.89	AVG	P
7	0.9338	29.03	9.79	38.82	56.00	-17.18	QP	P
8	0.9338	19.41	9.79	29.20	46.00	-16.80	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

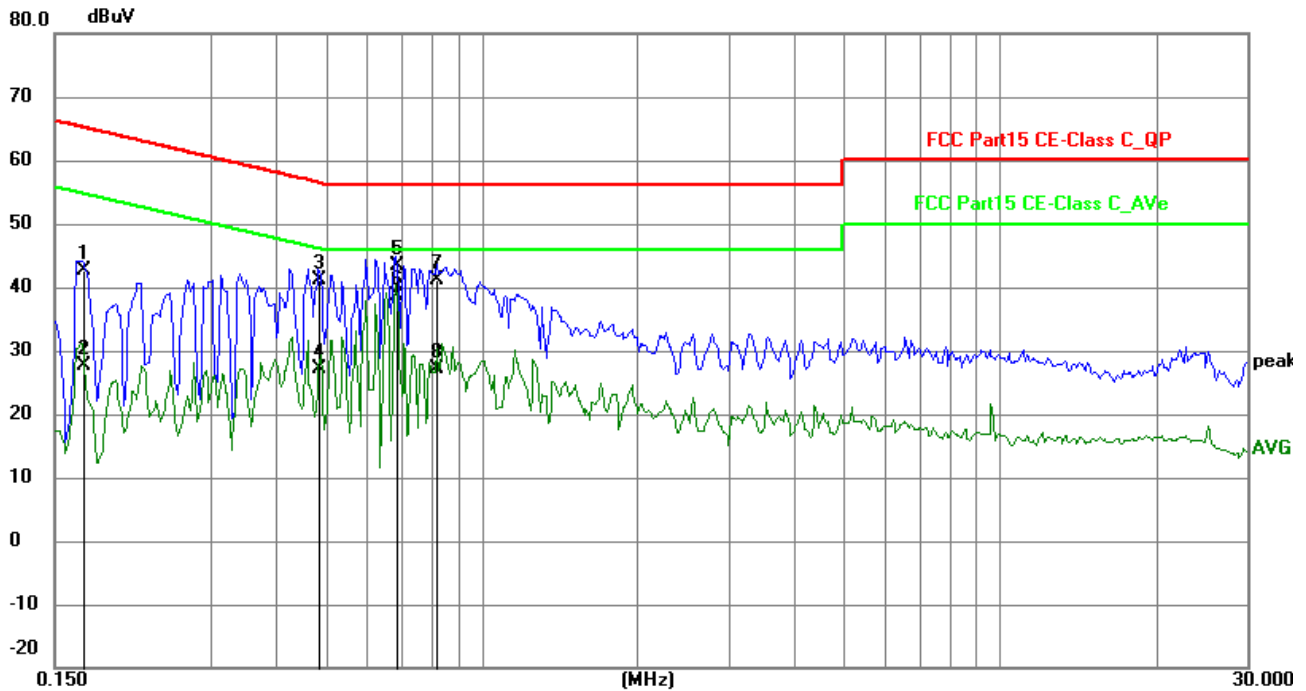
**EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	32.89	9.77	42.66	64.98	-22.32	QP	P
2	0.1695	17.98	9.77	27.75	54.98	-27.23	AVG	P
3	0.4854	31.34	9.77	41.11	56.25	-15.14	QP	P
4	0.4854	17.29	9.77	27.06	46.25	-19.19	AVG	P
5	0.6843	33.72	9.78	43.50	56.00	-12.50	QP	P
6	0.6843	28.87	9.78	38.65	46.00	-7.35	AVG	P
7	0.8208	31.28	9.78	41.06	56.00	-14.94	QP	P
8	0.8208	17.27	9.78	27.05	46.00	-18.95	AVG	P

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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

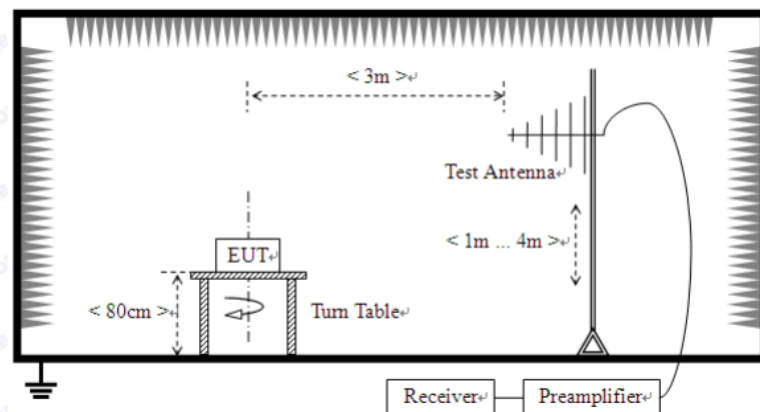
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



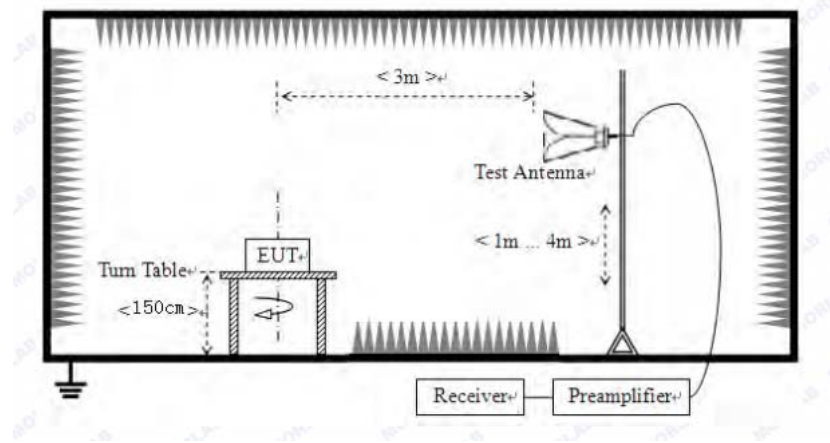
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For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**A FCC Part 15 Subpart C Paragraph 15.249(a) Limit**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
	mV/m	dBuV/m	uV/m	dBuV/m	
2400-2483.5	50	94 (Average) 114 (Peak)	500	54 (Average)	74 (Peak)

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
  5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
  6. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
  7. Battery fully charged was used during tests.
  8. Two modulation types were tested and the worst case was reported and GFSK was the worst case

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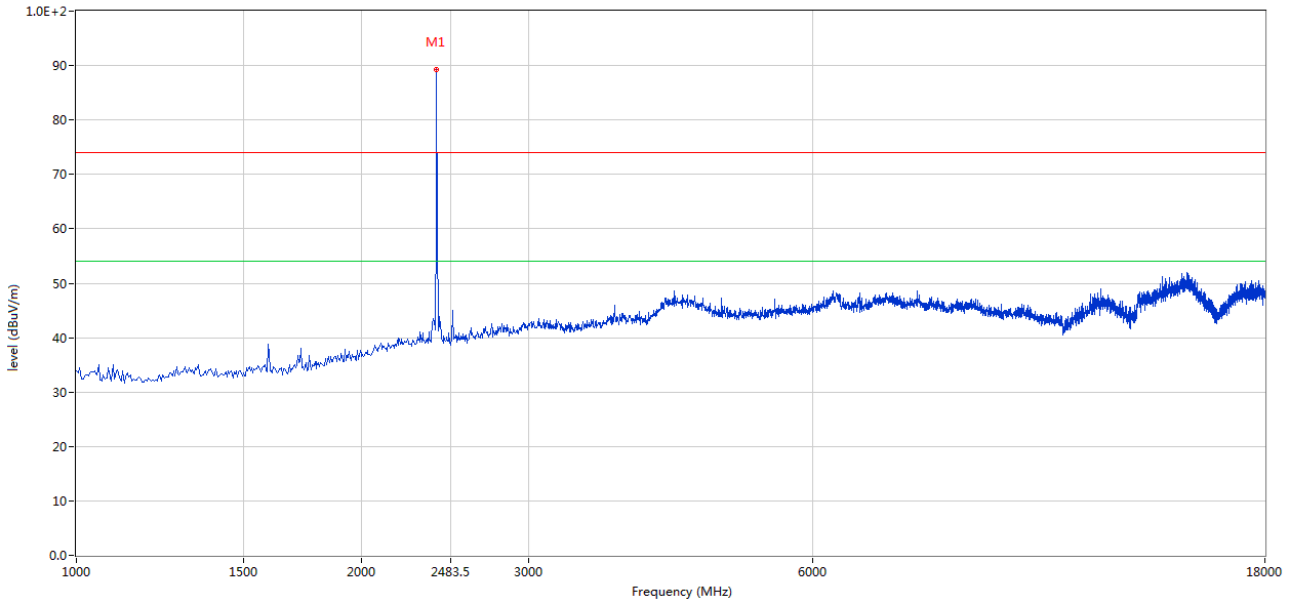
**6.5 Test result**

**A Fundamental & Harmonics Radiated Emission Data**

Please refer to the following test plots for details: Low Channel-2402MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	89.83	-3.57	114.0	-24.17	Peak	210.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

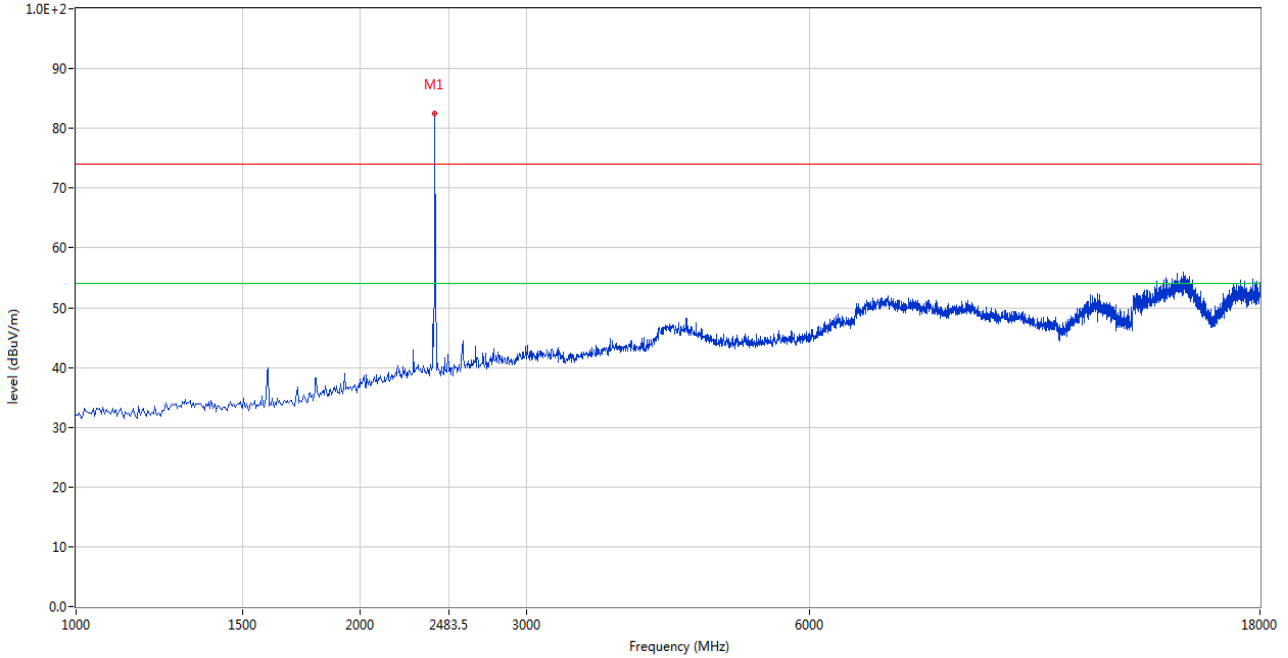
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	82.83	-3.57	114.0	-31.17	Peak	145.00	100	Vertical	Pass

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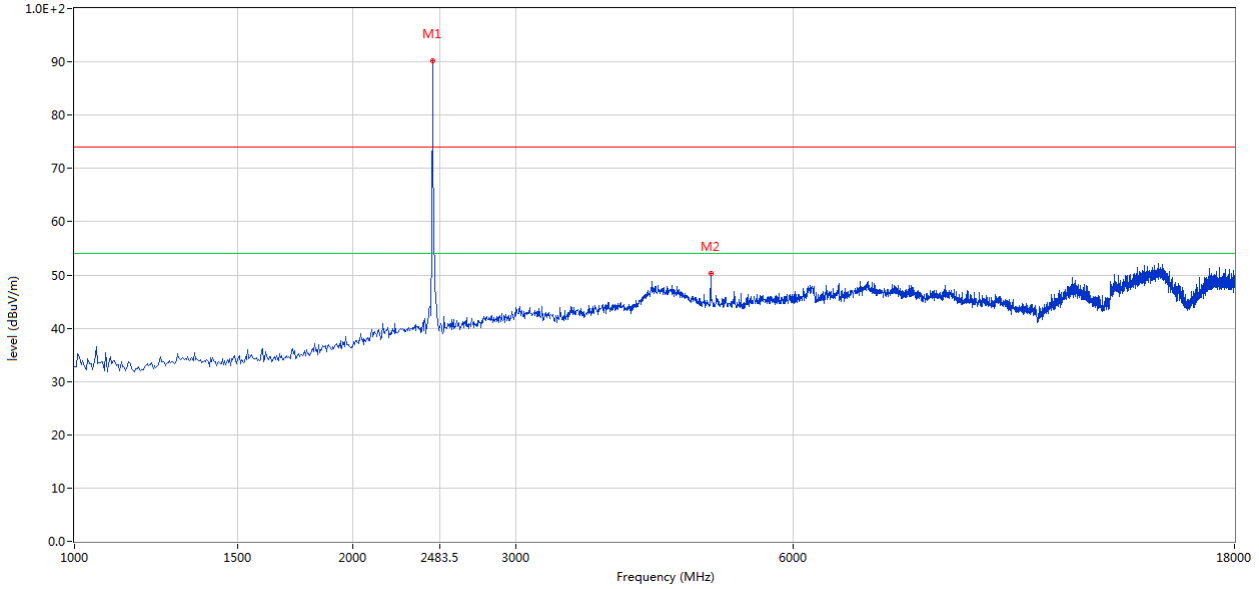




Please refer to the following test plots for details: Middle Channel-2441MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	90.25	-3.57	114.0	-23.75	Peak	237.00	100	Horizontal	Pass
2	4881.280	50.37	3.20	74.0	-23.63	Peak	138.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

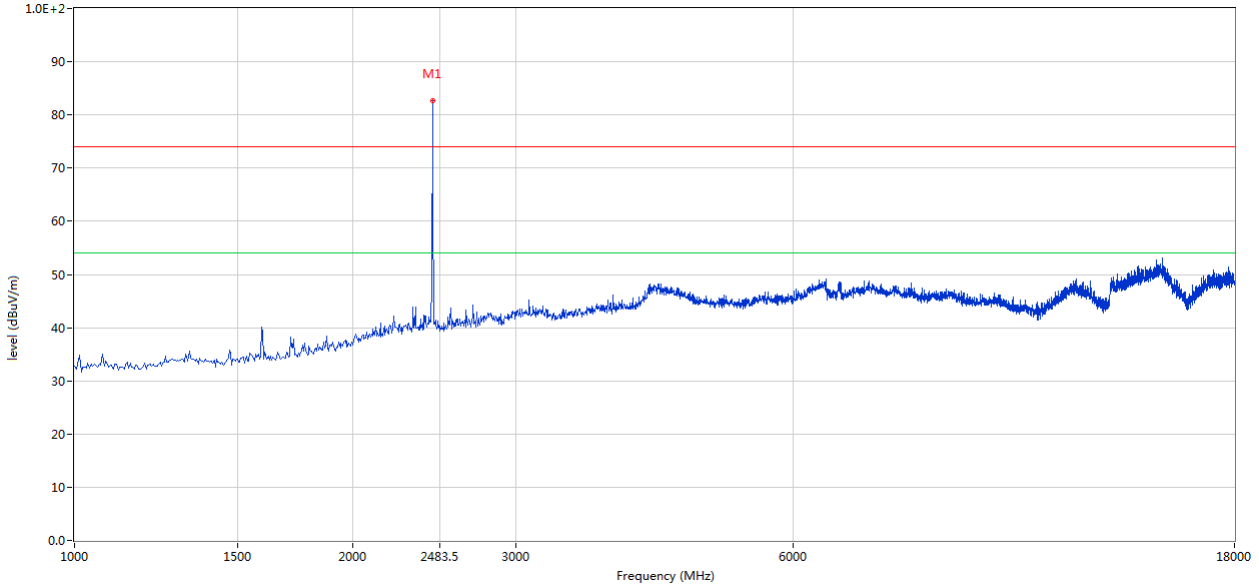
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	82.63	-3.57	114.0	-31.37	Peak	155.00	100	Vertical	Pass

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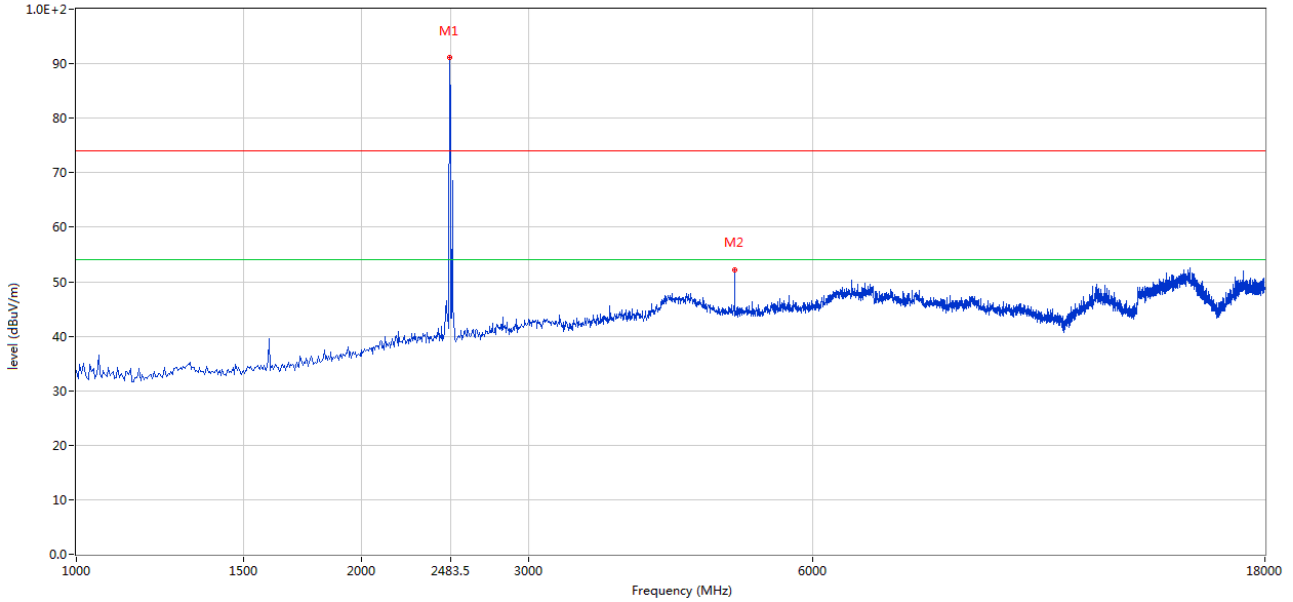
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Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	90.86	-3.57	114.0	-23.14	Peak	228.00	100	Horizontal	Pass
2	4960.010	52.22	3.36	74.0	-21.78	Peak	221.00	100	Horizontal	Pass

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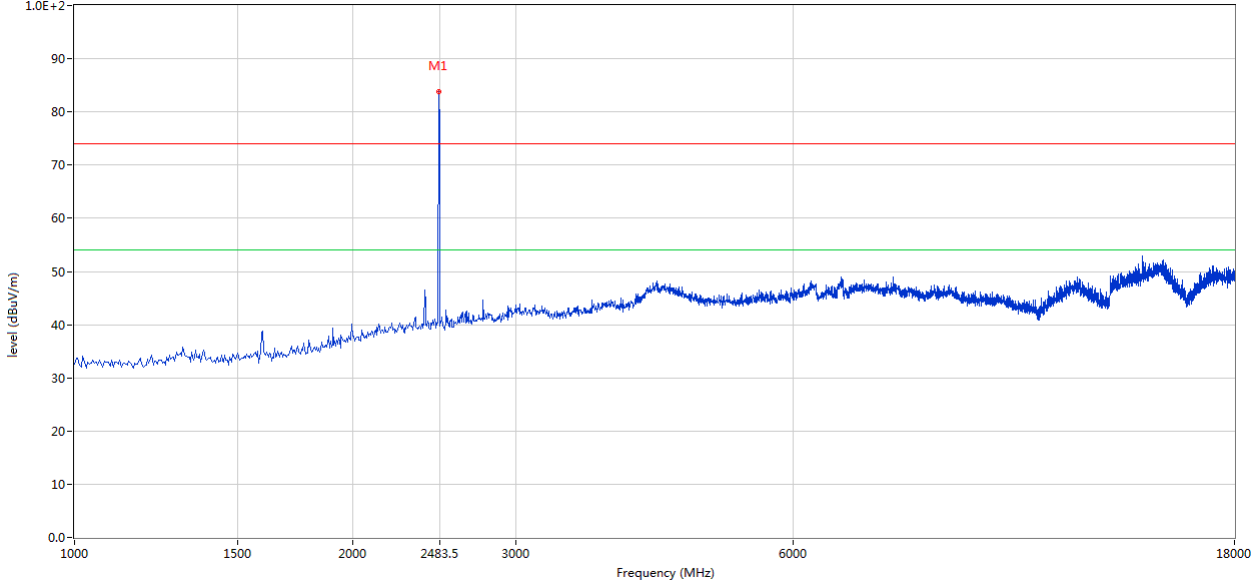
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	83.15	-3.57	114.0	-30.85	Peak	150.00	100	Vertical	Pass

- Note:
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
  - (3) Margin=Emission-Limits
  - (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) For test purpose, keep EUT continuous transmitting
  - (5) For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
  - (6) the measured PK value less than the AV limit.

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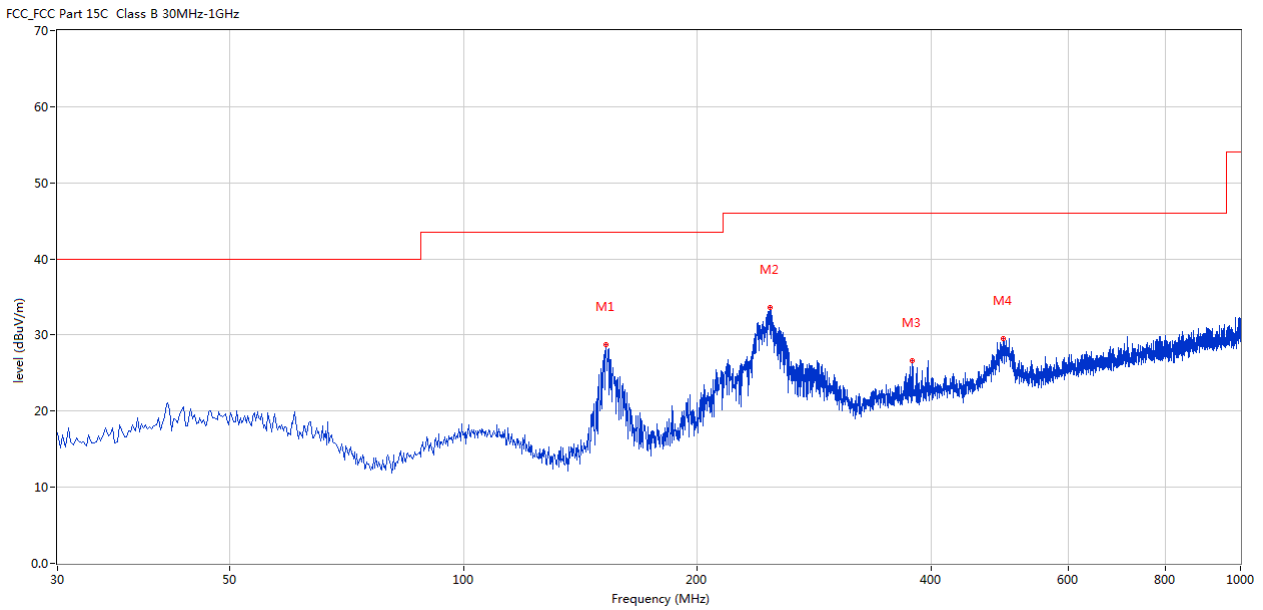


**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	152.674	28.72	-16.88	43.5	-14.78	Peak	264.00	100	Horizontal	Pass
2	248.195	33.62	-12.17	46.0	-12.38	Peak	76.00	100	Horizontal	Pass
3	377.658	26.61	-9.36	46.0	-19.39	Peak	99.00	100	Horizontal	Pass
4	495.484	29.51	-7.13	46.0	-16.49	Peak	65.00	100	Horizontal	Pass

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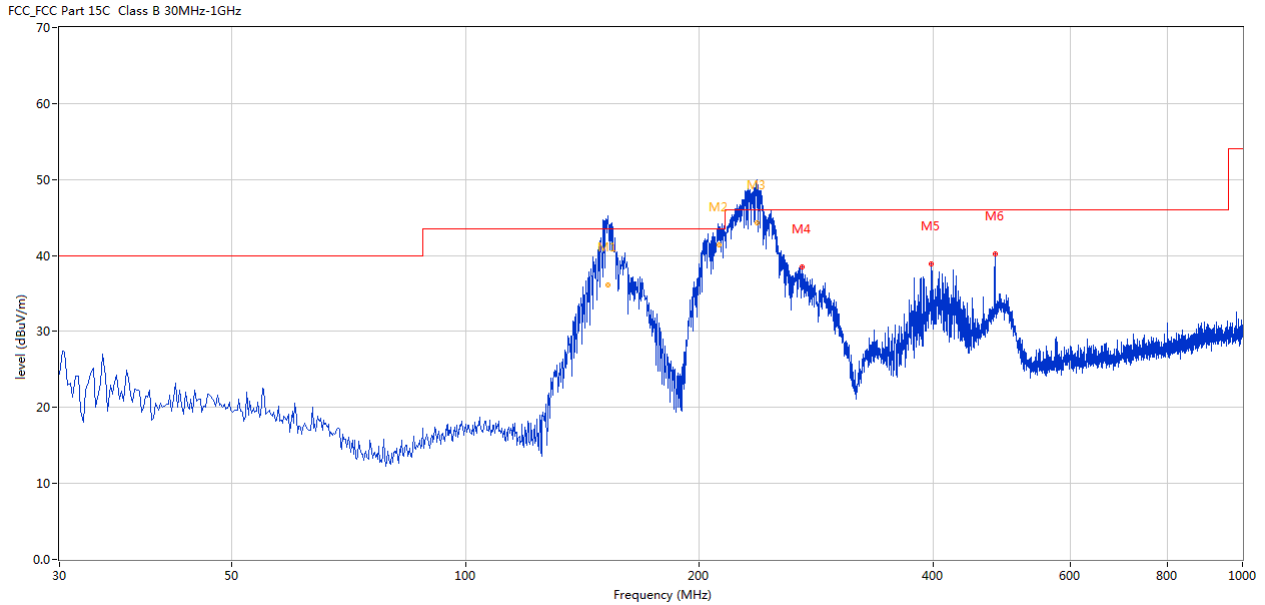


**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequen cy (MHz)	Results (dBuV/m )	Factor (dB)	Limit (dBuV/m )	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	152.463	38.96	-16.88	43.5	-4.54	Peak	46.00	199	Vertical	Pass
1*	152.463	36.11	-16.88	43.5	-7.39	QP	46.00	199	Vertical	Pass
2	211.718	43.74	-13.68	43.5	0.24	Peak	331.00	100	Vertical	N/A
2*	211.718	41.34	-13.68	43.5	-2.16	QP	331.00	100	Vertical	Pass
3	237.498	46.31	-12.39	46.0	0.31	Peak	146.00	200	Vertical	N/A
3*	237.498	44.32	-12.39	46.0	-1.68	QP	146.00	200	Vertical	Pass
4	270.985	38.45	-11.73	46.0	-7.55	Peak	315.00	100	Vertical	Pass
5	397.781	38.94	-8.69	46.0	-7.06	Peak	352.00	100	Vertical	Pass
6	479.968	40.27	-7.40	46.0	-5.73	Peak	4.00	100	Vertical	Pass

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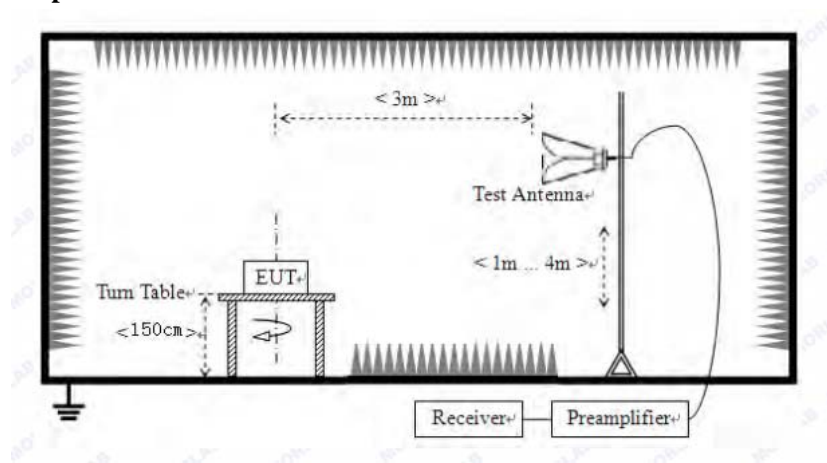
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## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

The report refers only to the sample tested and does not apply to the bulk.

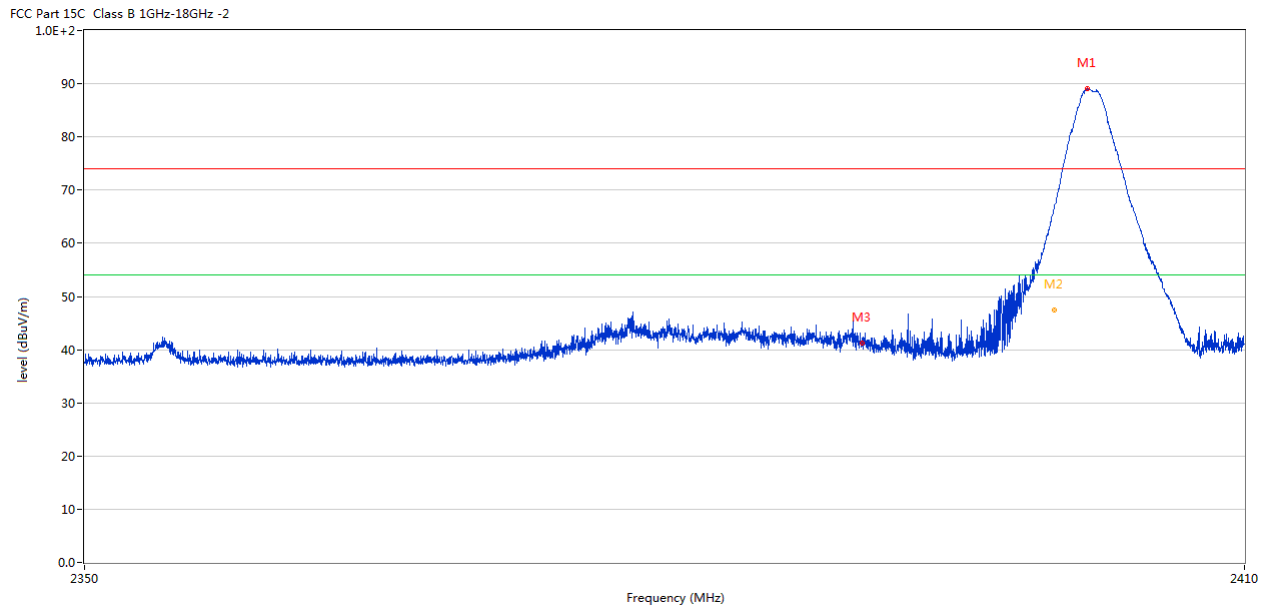
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**7.6 Test Result**

Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.797	89.00	-3.57	74.0	15.00	Peak	132.00	100	Horizontal	N/A
2	2400.042	66.54	-3.57	74.0	-7.46	Peak	132.00	100	Horizontal	Pass
2**	2400.042	47.51	-3.57	54.0	-6.49	AV	132.00	100	Horizontal	Pass
3	2390.040	41.33	-3.53	74.0	-32.67	Peak	194.00	100	Horizontal	Pass

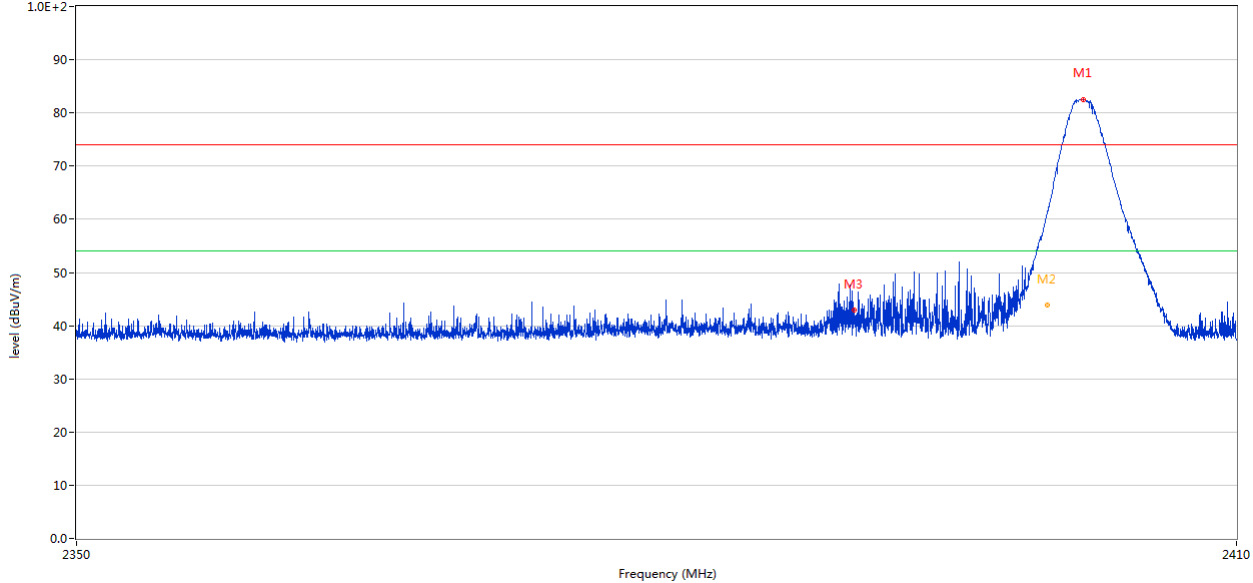
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Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2  
 1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.992	82.48	-3.57	74.0	8.48	Peak	146.00	100	Vertical	N/A
2	2400.087	61.16	-3.57	74.0	-12.84	Peak	146.00	100	Vertical	Pass
2**	2400.087	43.96	-3.57	54.0	-10.04	AV	146.00	100	Vertical	Pass
3	2390.055	42.95	-3.53	74.0	-31.05	Peak	92.00	100	Vertical	Pass

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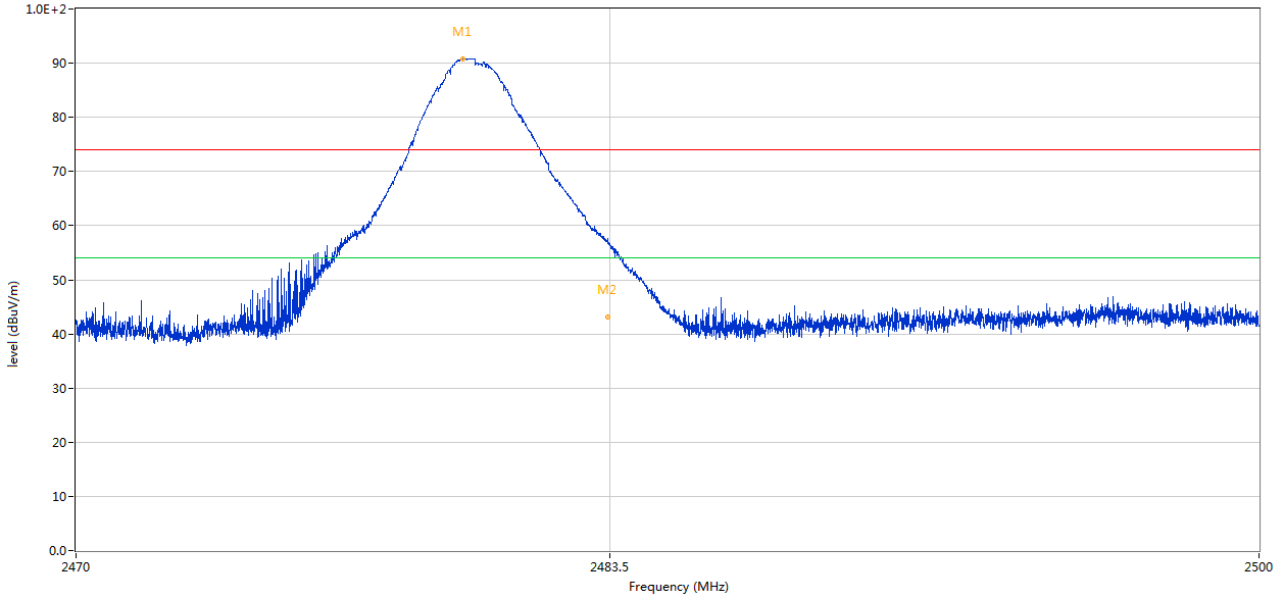
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Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.778	90.78	-3.57	74.0	16.78	Peak	137.00	100	Horizontal	N/A
2	2483.429	57.63	-3.57	74.0	-16.37	Peak	137.00	100	Horizontal	Pass
2**	2483.429	43.28	-3.57	54.0	-10.72	AV	137.00	100	Horizontal	Pass

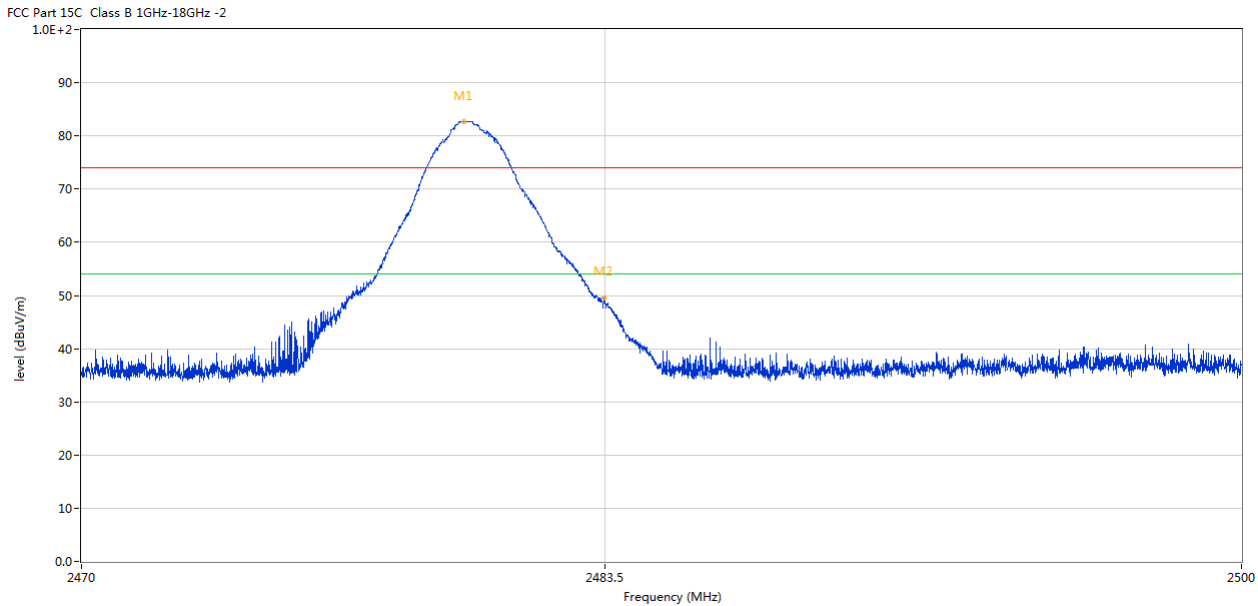
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Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.845	82.66	-3.57	74.0	8.66	Peak	160.00	100	Vertical	N/A
2	2483.467	49.57	-3.57	74.0	-24.43	Peak	160.00	100	Vertical	Pass

- Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.  
 2. Two modulation types were tested and the worst case was reported and GFSK was the worst case

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## 8.0 Antenna Requirement

### Applicable Standard

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.

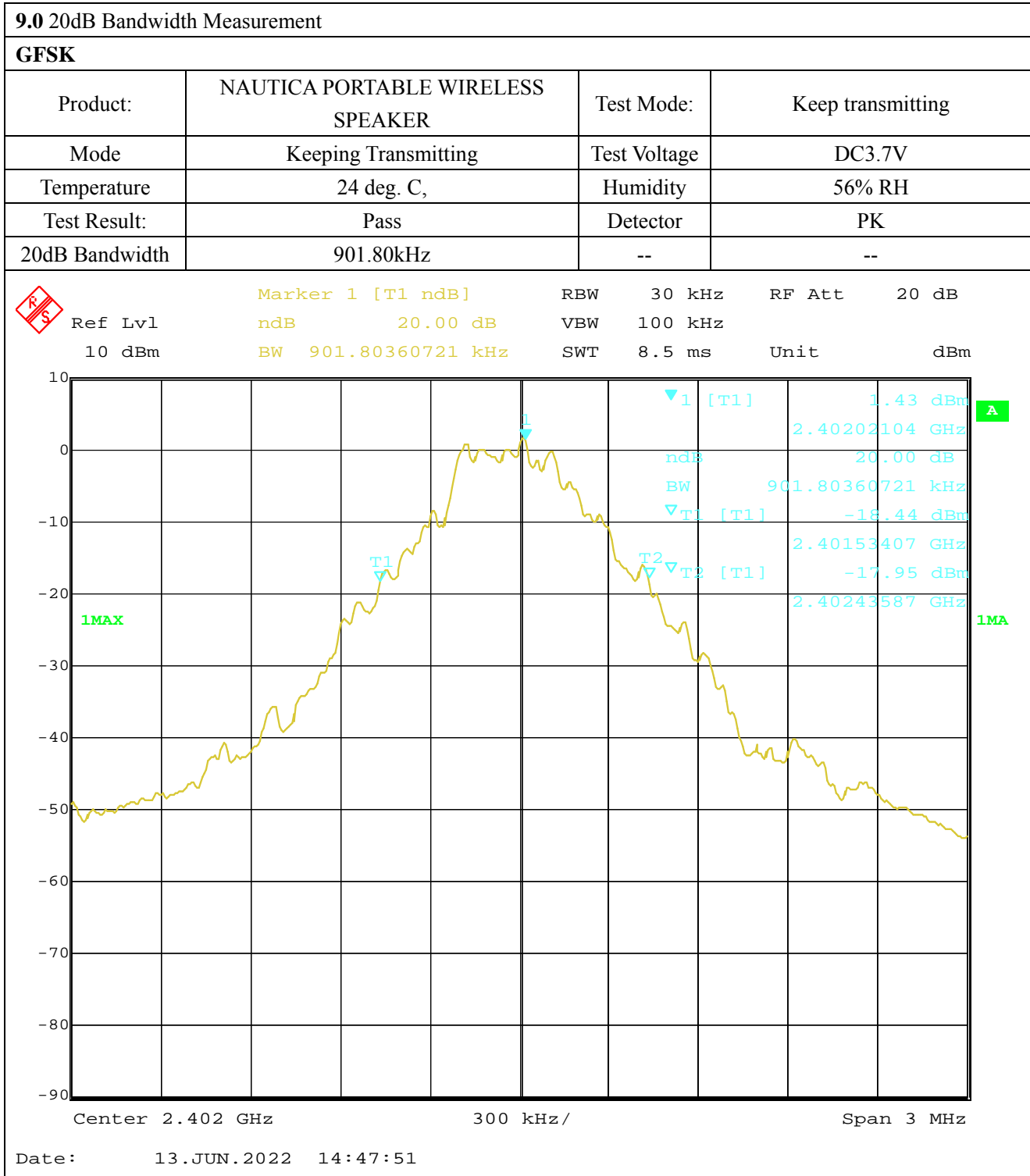
This product has a PCB antenna. The antenna gain is 0.944dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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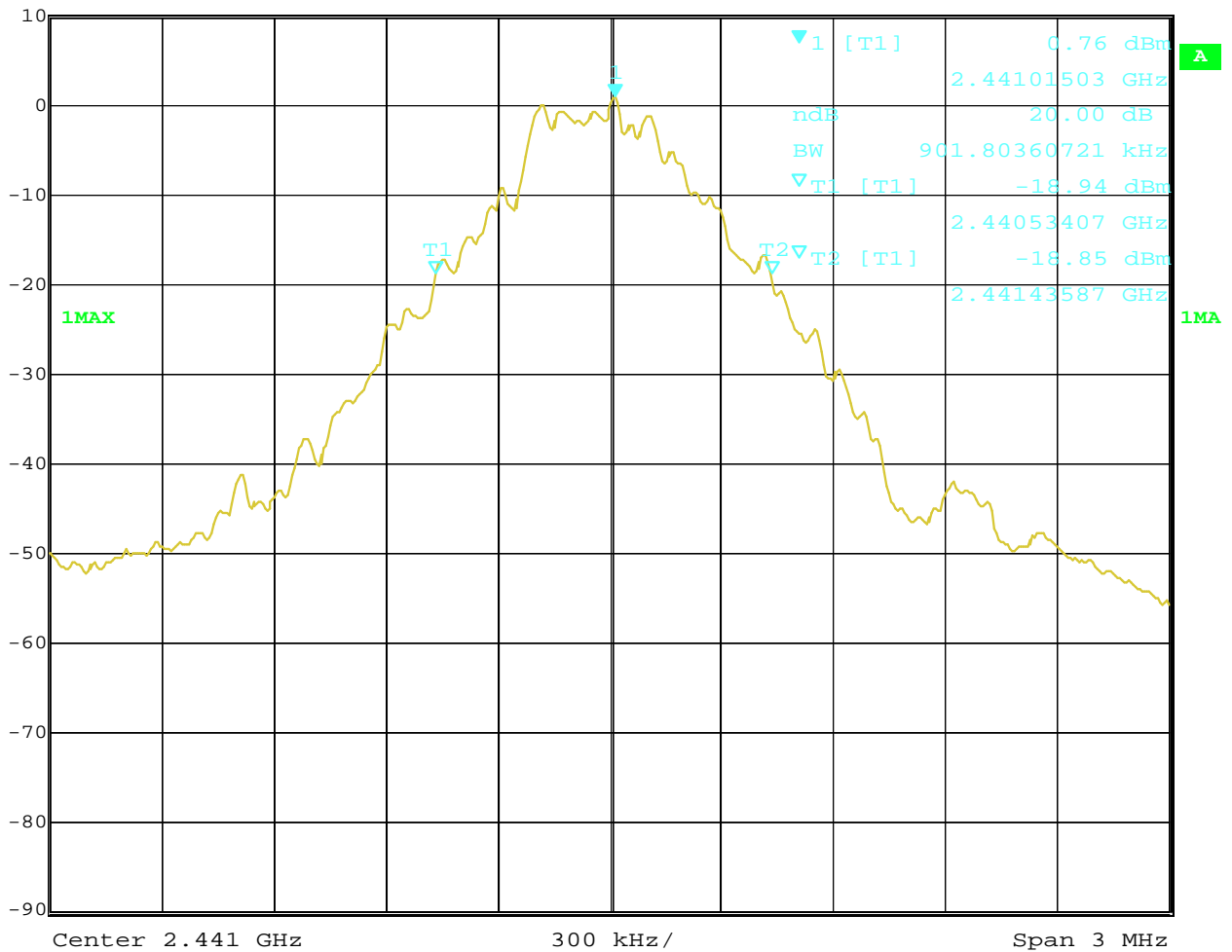
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GFSK			
Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	901.80kHz	--	--



Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 dB  
 Ref Lvl ndB 20.00 dB VBW 100 kHz  
 10 dBm BW 901.80360721 kHz SWT 8.5 ms Unit dBm



Date: 13.JUN.2022 14:55:54

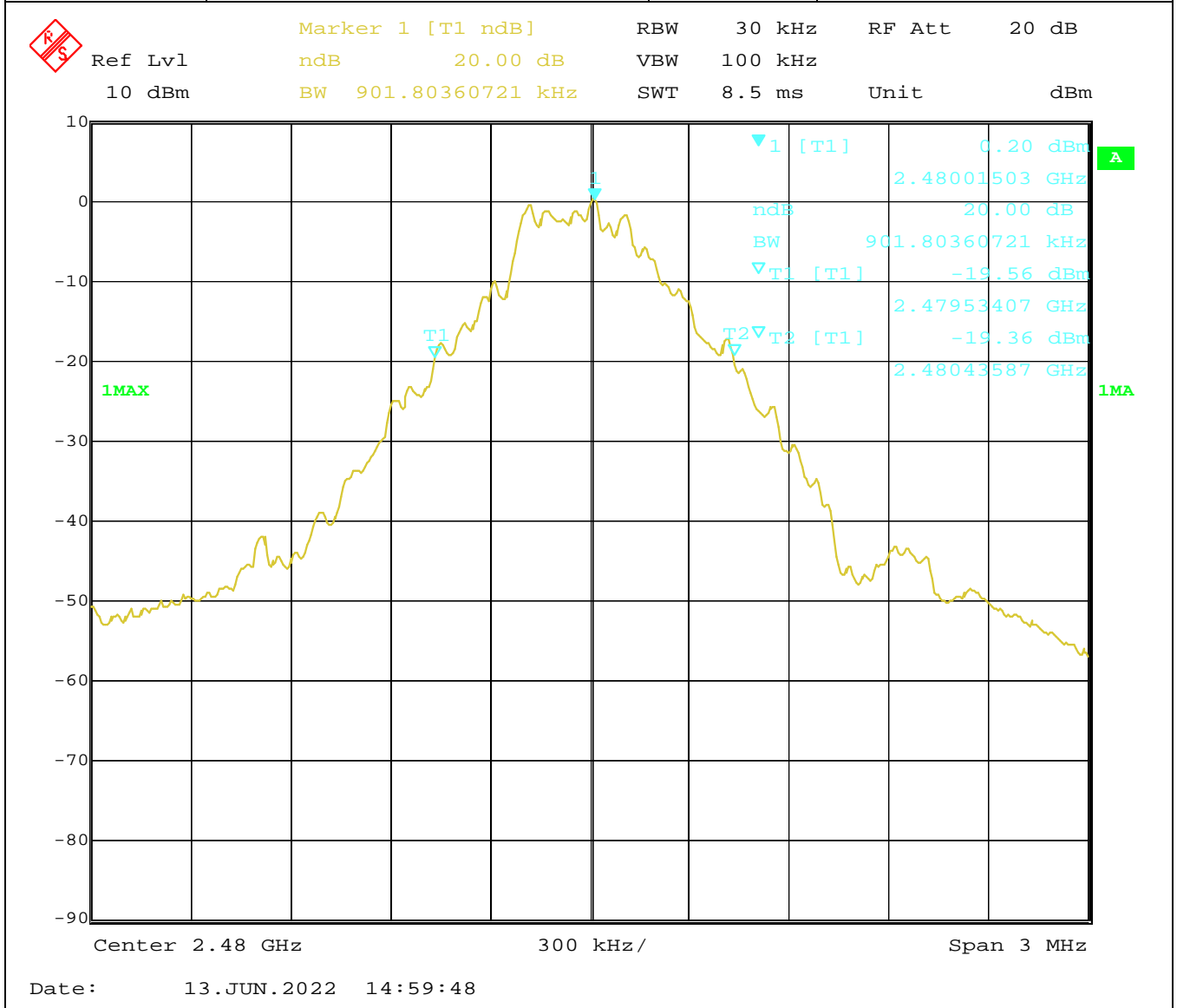
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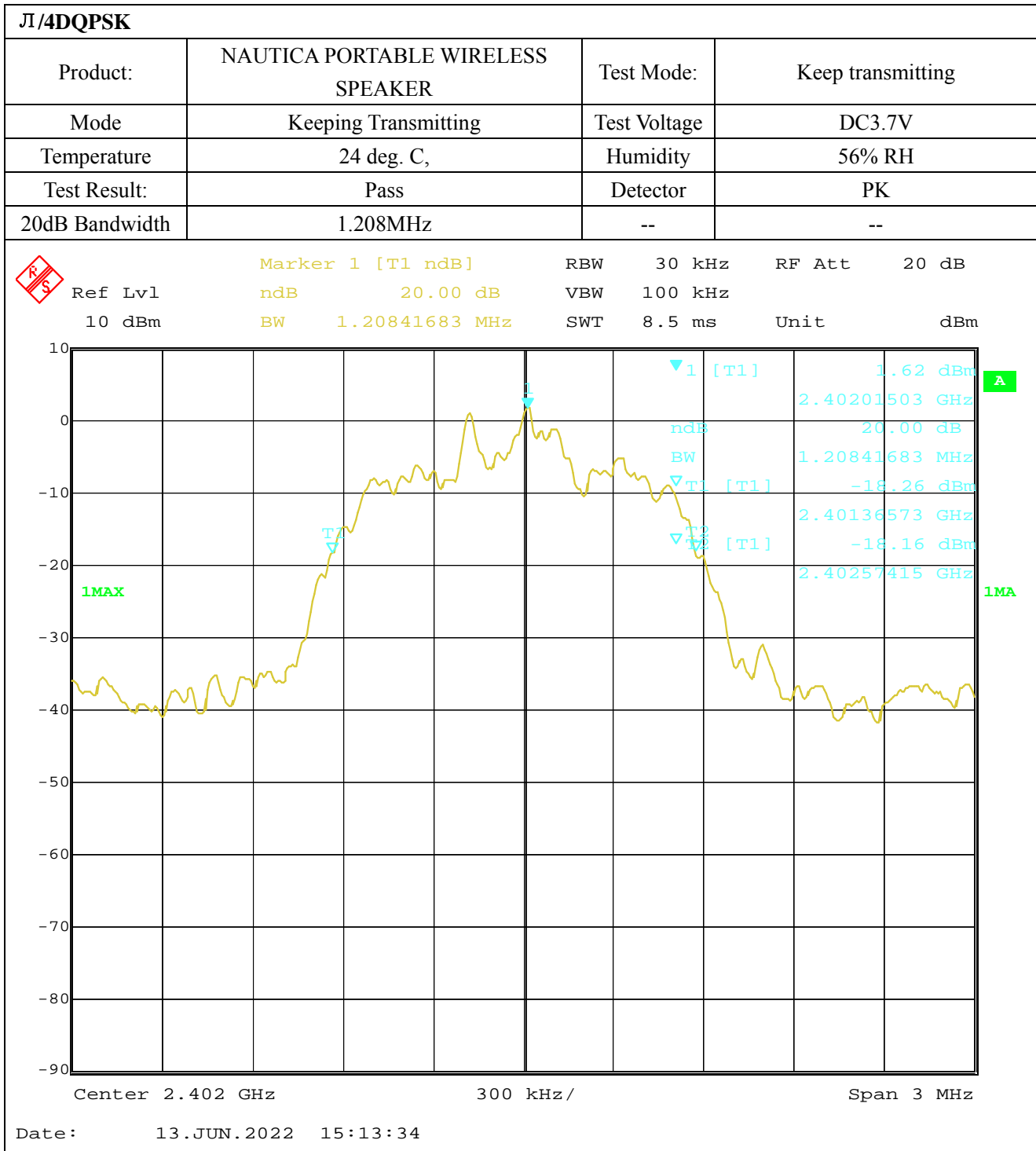
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GFSK			
Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	901.80kHz	--	--

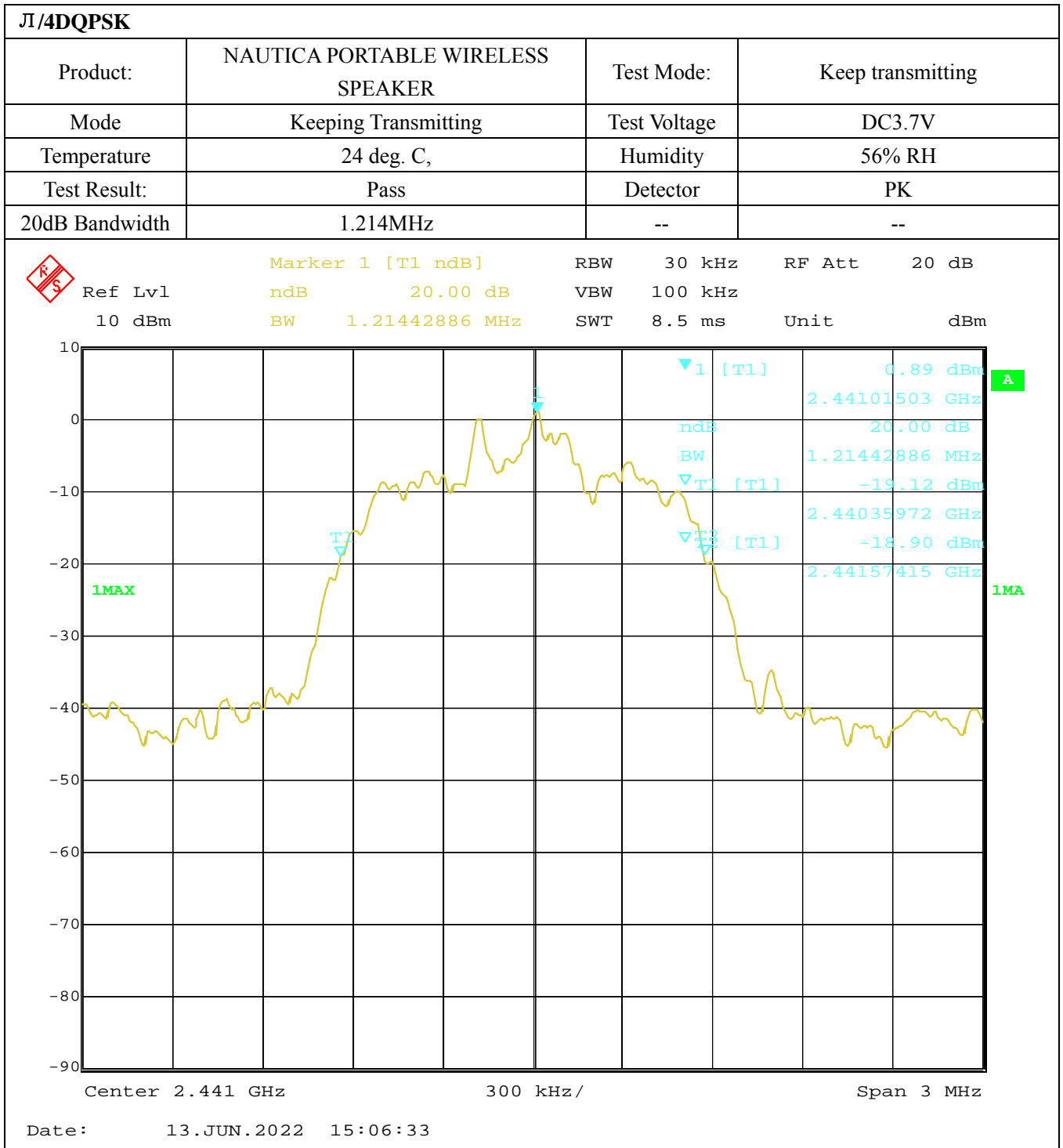


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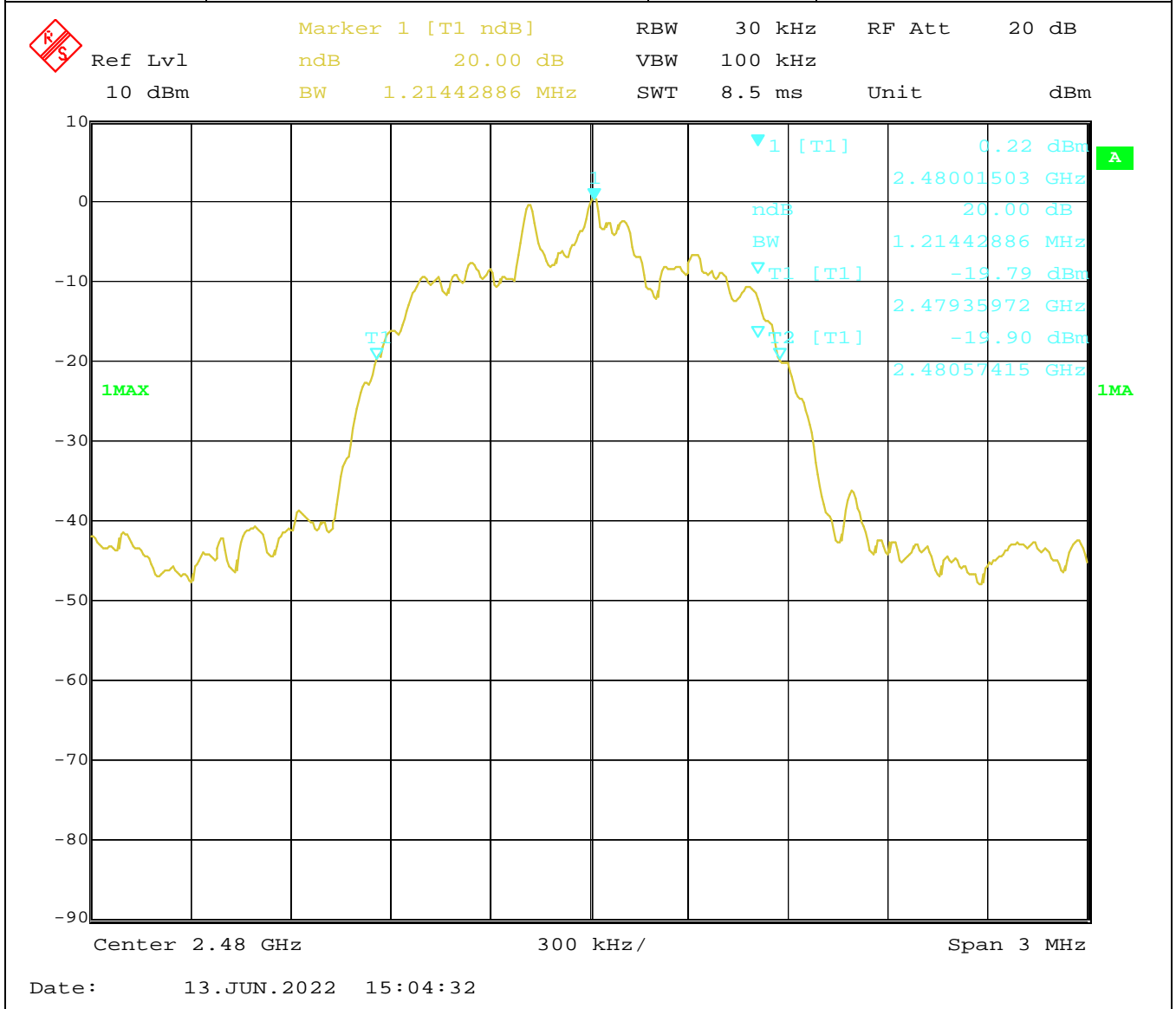




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<b>π/4DQPSK</b>			
Product:	NAUTICA PORTABLE WIRELESS SPEAKER	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.214MHz	--	--



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## 10.0 FCC ID Label

### FCC ID: 2AZBO-N00019

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### Mark Location:



FCC Label Location

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**11.0** Photo of testing

**11.1** Conducted test View



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Radiated emission test view



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11.2 Photographs – EUT

Outside View



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Outside View



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Outside View



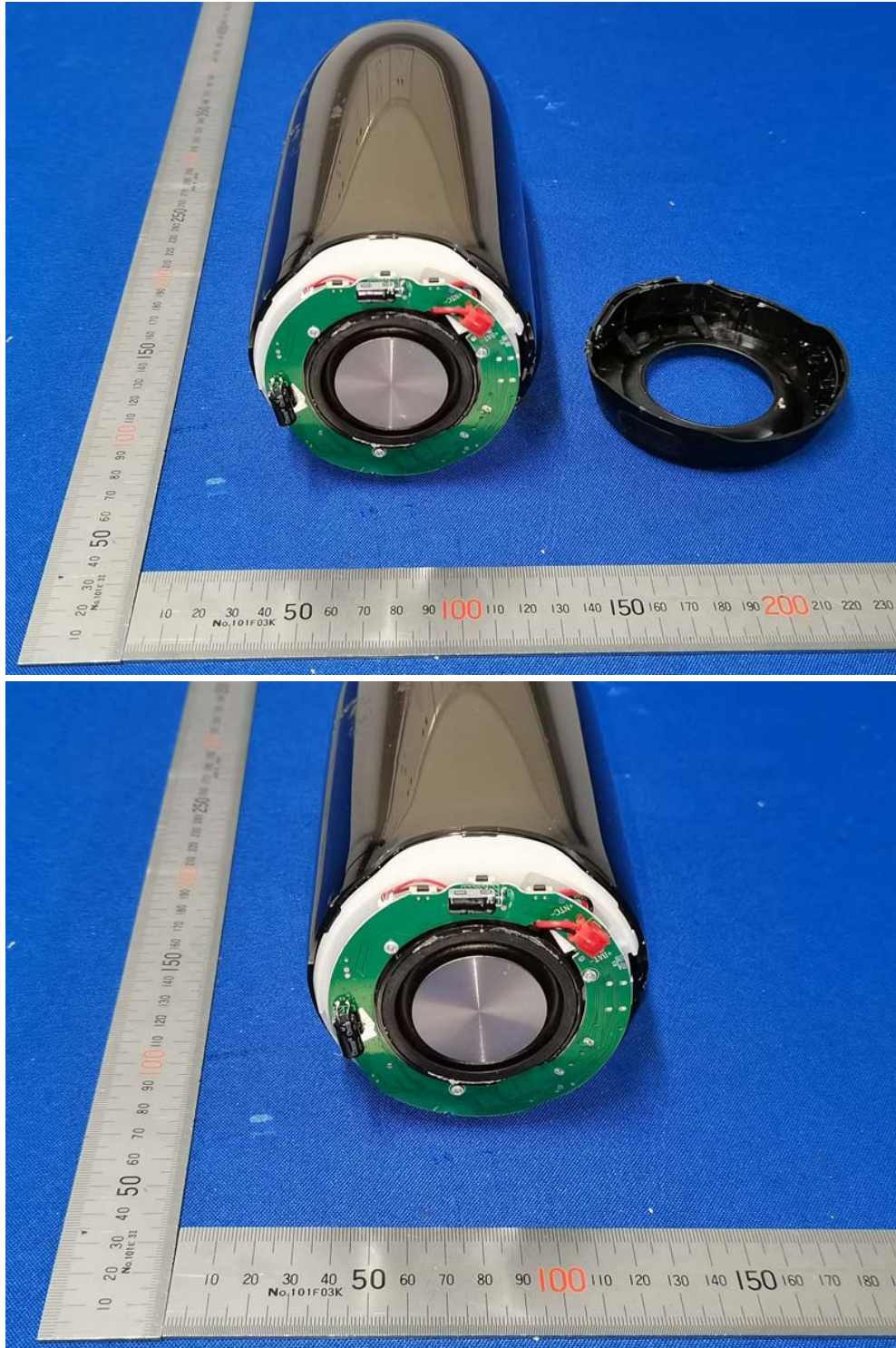
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Inside view



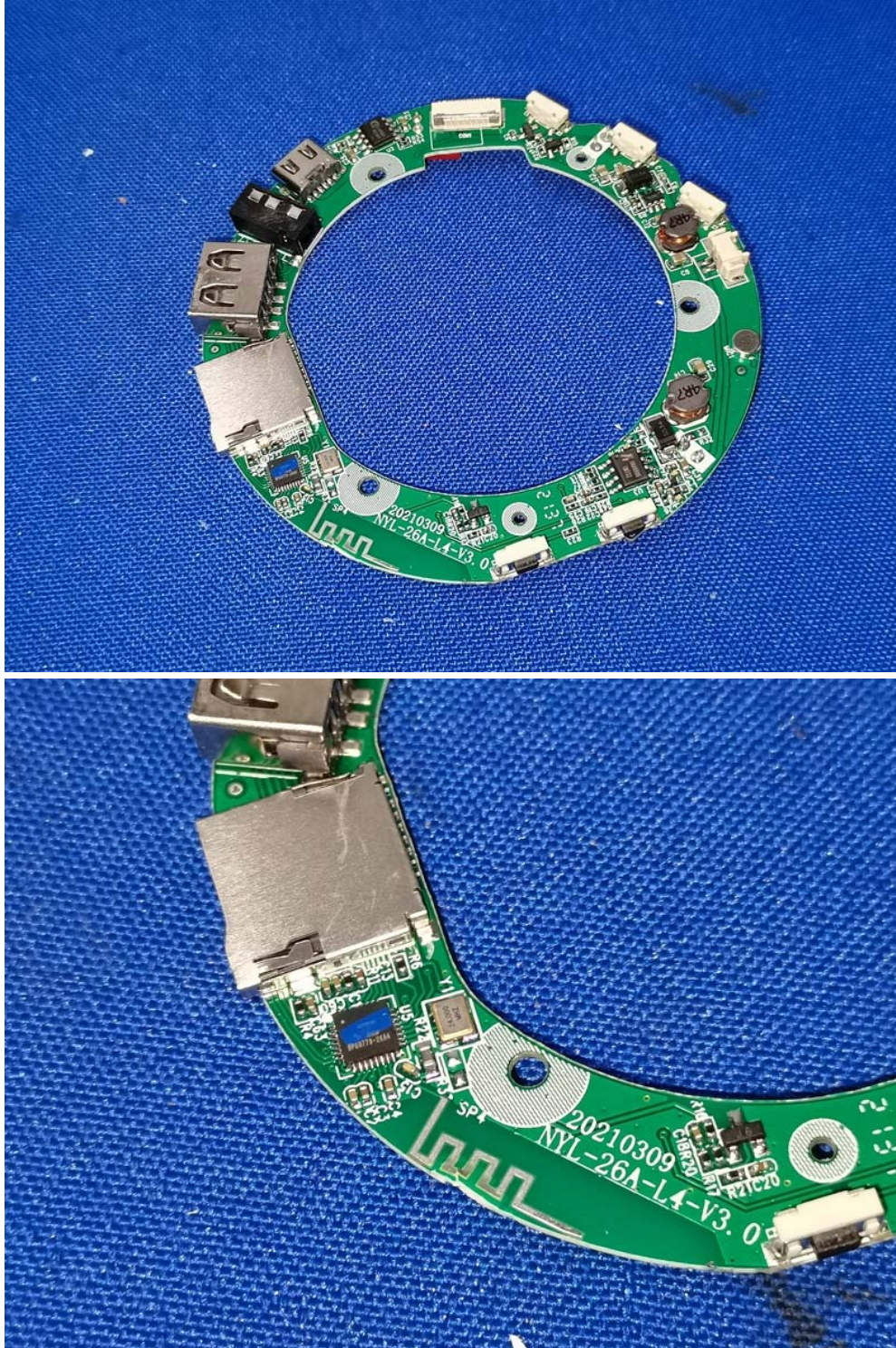
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Inside view



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Inside view



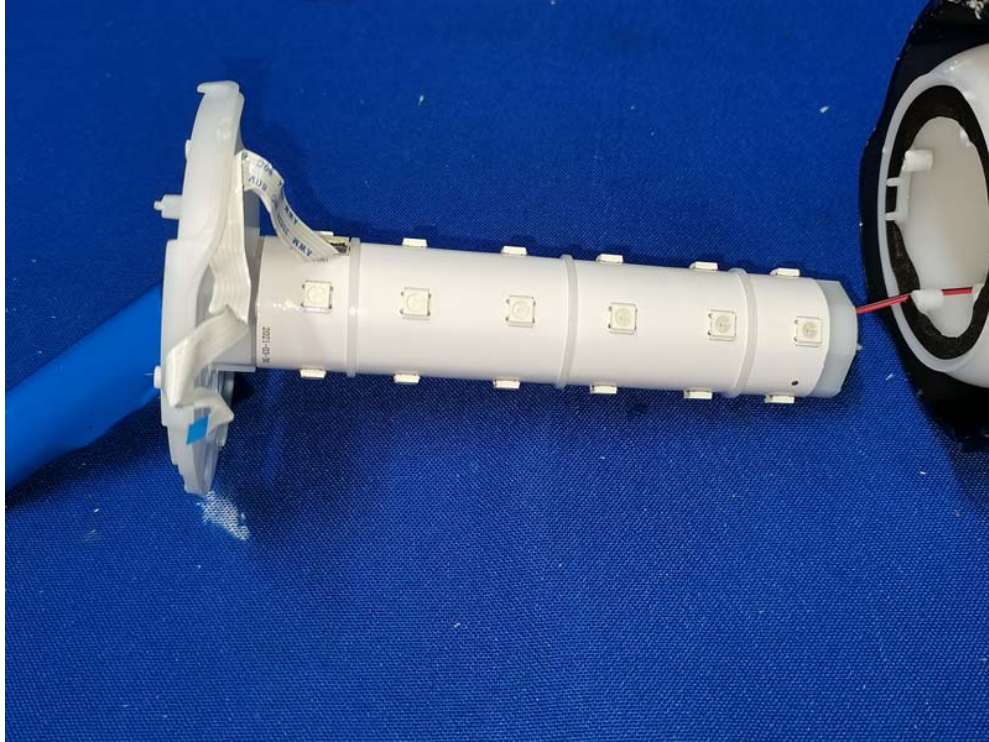
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Inside view



**--End of the report--**

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