

Applicant: RADIOSHACK WORLDWIDE CORP.

Product: SPEAKER BOX

Model No.: 4001958, MAX-210F

Trademark: Radioshack

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

Terry Tang

Manager

Dated: May 28, 2024

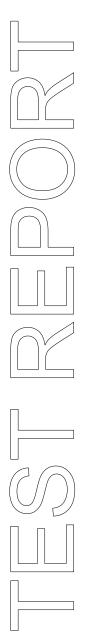
Results appearing herein relate only to the sample tested

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



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Special Statement:

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

CAB identifier: CN0033

Date: 2024-05-28



Test Report Conclusion

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

11.0

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Photo of Test Setup and EUT View....

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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 Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: RADIOSHACK WORLDWIDE CORP.

Address: Millennium Tower, 18th floor Paseo General Escalon Number 3675 Col. Escalon, San

Salvador, El Salvador

1.3 Description of EUT

Product: SPEAKER BOX

Manufacturer: MAXTRONIX CO., LTD.

Address: NO.12, HEXIANG ROAD, WUJIN ECONOMIC DEVELOPMENT ZONE,

CHANGZHOU, JIANGSU, CHINA

Trademark: Radioshack
Model Number: 4001958
Additional Model Name MAX-210F

Rating: Input: AC 100-240V~, 50/60Hz, 650mA

Battery: DC12V, 7.0AH Lead-Acid Battery

Serial No.: 4001958-V1.1 Hardware Version: 4001958-V1.1

Software Version: MS400195820240328115B

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain 1.7dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2024-05-14 to 2024-05-25

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

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	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13		
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13		
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17		
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13		
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17		
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17		
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13		
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13		
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17		
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25		
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13		
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13		
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13		
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13		
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2023-07-14	2024-07-13		
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13		
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13		
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13		
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13		
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13		
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13		

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

The EUT has	heen tested	according to	a the followi	ng specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

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

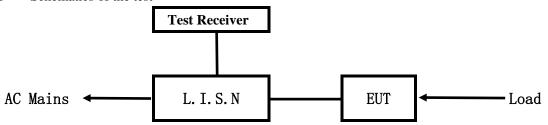
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

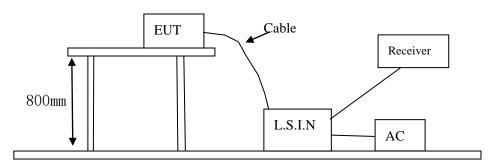


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. 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	Device Manufacturer		FCC ID	
SPEAKER BOX	MAXTRONIX CO., LTD.	4001958, MAX-210F	2BDUR-4001958	

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- 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	Limits (dB μ V)			
(MHz)	Quasi-peak Level	Aver ge Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
$5.00 \sim 30.00$	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:

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

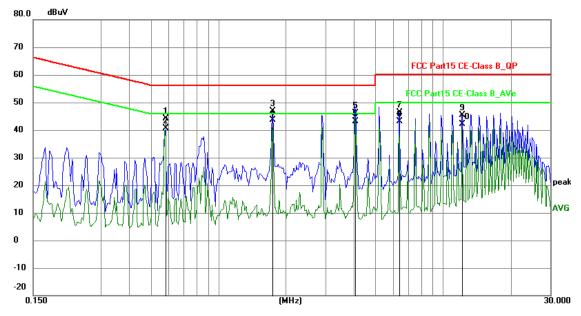
EUT Operating Environment

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	0.5829	34.43	9.77	44.20	56.00	-11.80	QP	Р
2	0.5829	30.83	9.77	40.60	46.00	-5.40	AVG	Р
3	1.7412	37.13	9.80	46.93	56.00	-9.07	QP	Р
4	1.7412	33.83	9.80	43.63	46.00	-2.37	AVG	Р
5	4.0608	36.13	9.89	46.02	56.00	-9.98	QP	Р
6	4.0608	33.34	9.89	43.23	46.00	-2.77	AVG	Р
7	6.3773	36.52	9.98	46.50	60.00	-13.50	QP	Р
8	6.3773	33.05	9.98	43.03	50.00	-6.97	AVG	Р
9	12.1767	35.17	10.26	45.43	60.00	-14.57	QP	Р
10	12.1767	31.87	10.26	42.13	50.00	-7.87	AVG	Р

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

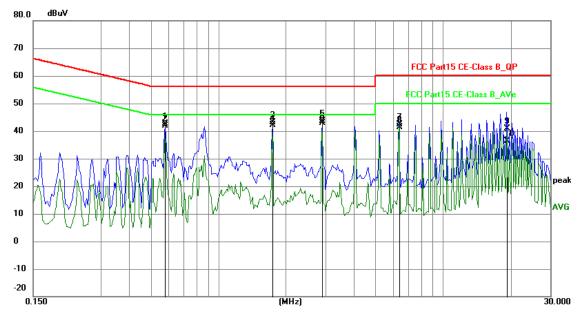
EUT Operating Environment

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	0.5790	32.87	9.77	42.64	56.00	-13.36	QP	Р
2	0.5790	32.04	9.77	41.81	46.00	-4.19	AVG	Р
3	1.7412	33.39	9.80	43.19	56.00	-12.81	QP	Р
4	1.7412	32.21	9.80	42.01	46.00	-3.99	AVG	Р
5	2.8995	33.82	9.84	43.66	56.00	-12.34	QP	Р
6	2.8995	32.94	9.84	42.78	46.00	-3.22	AVG	Р
7	6.3773	32.52	9.98	42.50	60.00	-17.50	QP Q	Р
8	6.3773	31.34	9.98	41.32	50.00	-8.68	AVG	Р
9	19.1342	30.35	10.63	40.98	60.00	-19.02	QP	Р
10	19.1342	25.85	10.63	36.48	50.00	-13.52	AVG	Р

Date: 2024-05-28



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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

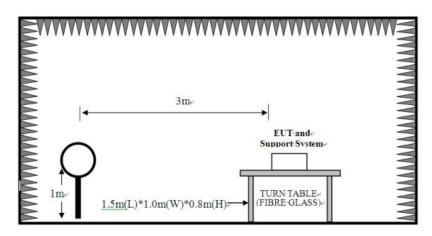
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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

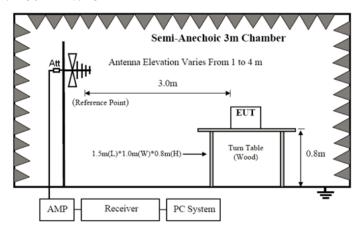
For radiated emissions from 9kHz to 30MHz



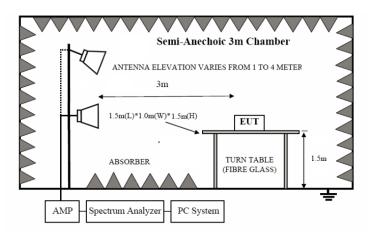
Date: 2024-05-28



For radiated emissions from 30MHz to1GHz



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	Field Stre	ength of Fundamental (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m		

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2400-2483.5 50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
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Note:

- 1. RF Field Strength $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. 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.
- 5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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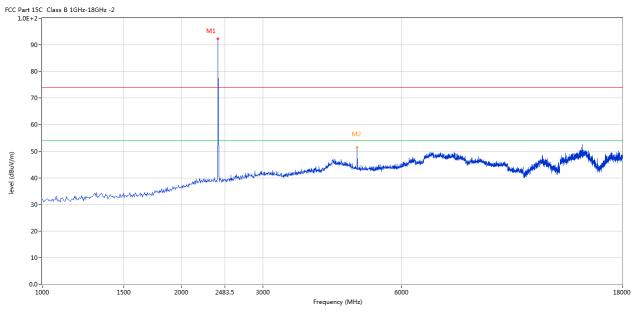


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



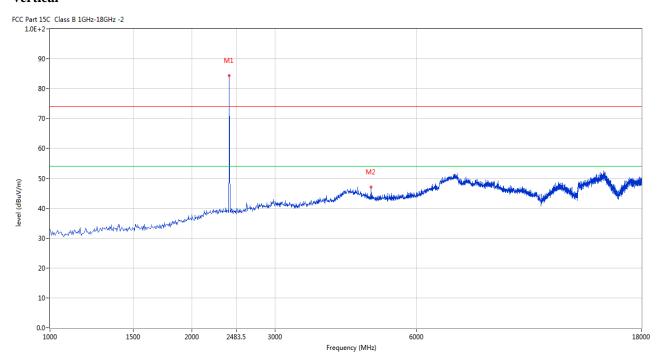
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.30	-3.57	114.0	-21.70	Peak	24.00	100	Horizontal	Pass
2	4802.799	51.36	3.12	74.0	-22.64	Peak	0.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	84.45	-3.57	114.0	-29.55	Peak	110.00	100	Vertical	Pass
2	4802.799	47.08	3.12	74.0	-26.92	Peak	84.00	100	Vertical	Pass

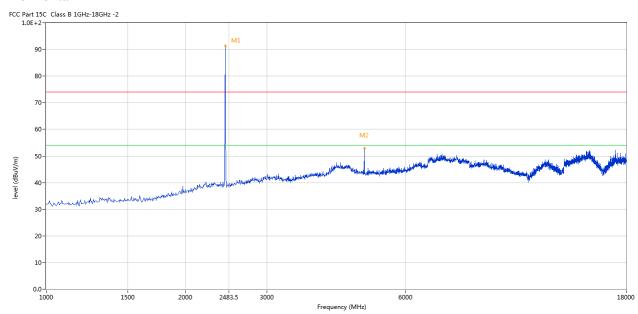
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



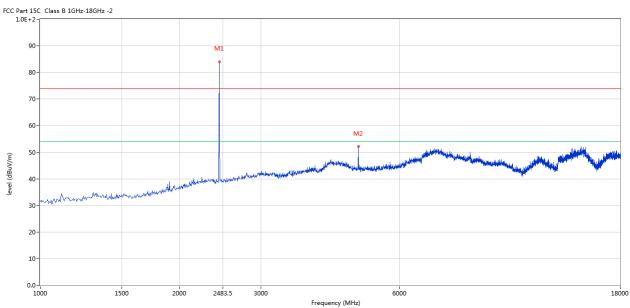
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.27	-3.57	114.0	-22.73	Peak	0.00	100	Horizontal	Pass
2	4879.280	52.98	3.20	74.0	-21.02	Peak	360.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	83.99	-3.57	114.0	-30.01	Peak	278.00	100	Vertical	Pass
2	4879.280	52.14	3.20	74.0	-21.86	Peak	86.00	100	Vertical	Pass

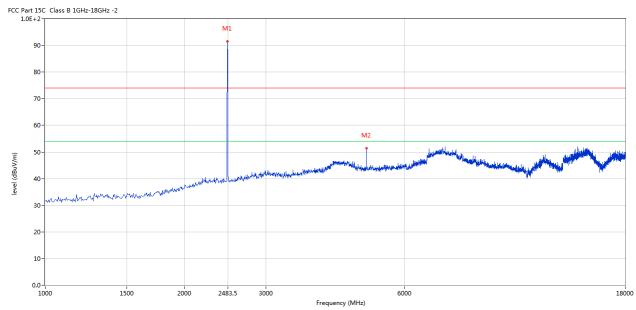
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.50	-3.57	114.0	-22.50	Peak	172.00	100	Horizontal	Pass
2	4960.010	51.37	3.36	74.0	-22.63	Peak	177.00	100	Horizontal	Pass

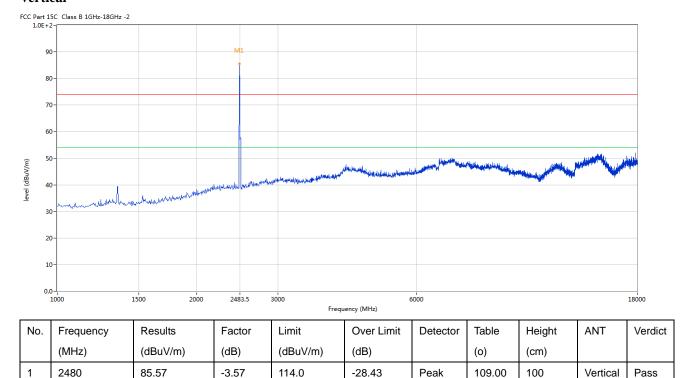
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Vertical



Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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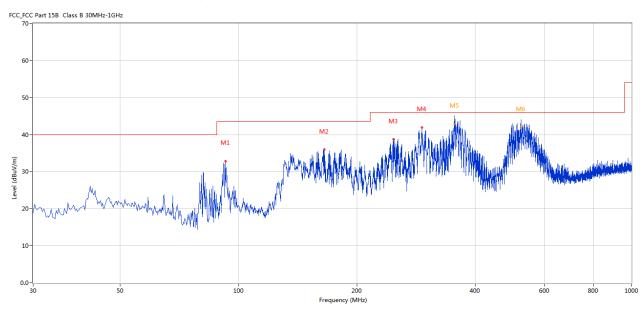


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	92.549	32.87	-14.57	43.5	10.63	Peak	325.00	100	Horizontal	Pass
2	165.039	35.92	-16.21	43.5	7.58	Peak	260.00	100	Horizontal	Pass
3	247.953	38.82	-12.15	46.0	7.18	Peak	120.00	100	Horizontal	Pass
4	293.289	41.91	-11.28	46.0	4.09	Peak	155.00	100	Horizontal	Pass
5*	354.866	42.85	-9.42	46.0	3.15	QP	168.00	106	Horizontal	Pass
6*	523.129	41.88	-6.68	46.0	4.12	QP	254.00	101	Horizontal	Pass

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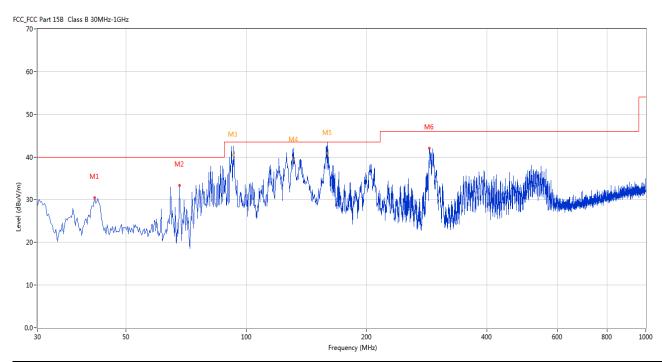


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	41.637	30.42	-11.82	40.0	9.58	Peak	200.00	100	Vertical	Pass
2	68.063	33.40	-14.68	40.0	6.60	Peak	114.00	100	Vertical	Pass
3*	92.549	40.47	-14.57	43.5	3.03	QP	360.00	100	Vertical	Pass
4*	131.340	39.30	-16.88	43.5	4.20	QP	315.00	100	Vertical	Pass
5*	159.463	40.93	-16.40	43.5	2.57	QP	345.00	100	Vertical	Pass
6	287.471	42.04	-11.29	46.0	3.96	Peak	360.00	100	Vertical	Pass

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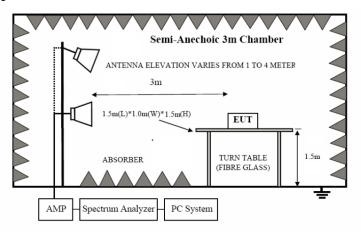


7. Band Edge

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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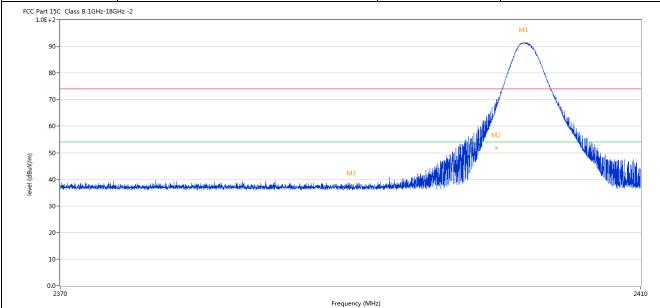
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7.6 Test Result

Product:	SPEAKER BOX	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.902	91.40	-3.57	74.0	17.40	Peak	173.00	100	Horizontal	N/A
2	2400.000	67.12	-3.57	74.0	-6.88	Peak	173.00	100	Horizontal	Pass
2**	2400.000	51.71	-3.57	54.0	-2.29	AV	173.00	100	Horizontal	Pass
3	2390.000	37.42	-3.53	74.0	-36.58	Peak	119.50	100	Horizontal	Pass

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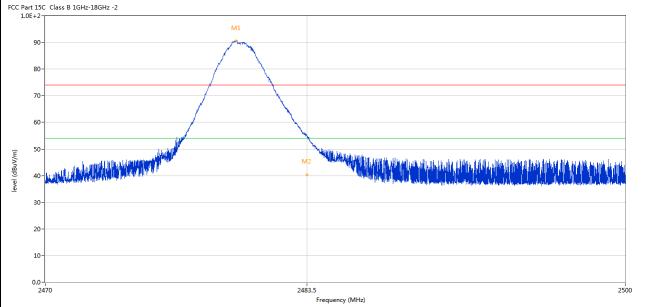


J	Product:		SPEAKE	ER BOX		Detect	or		Vertical	
	Mode	ŀ	Keeping Tr	ansmitting		Test Vol	tage		120V~	
Te	mperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pa	SS						
	t 15C Class B 1GHz-18G	Hz -2			<u> </u>		<u> </u>			
1.0	E+2-									
	90-							M1		
	80-									
								$\overline{}$		
	70-						/			
	60-						محمل الم		\	
	50-						M2		V	
							. additi		Min.	
IBuV/m					M3				1	. 1.1
level (dBuV/m	40-	kulumbangat miliphaten menerung mbangkan jelangan kanu	tumaka bila kapada bila asarah	ii dire ka adarada a adada a biri a dadi da ba	M3	Mary Mary Mary Mary Mary Mary Mary Mary			THE RESERVE TO SERVE	hidduk
level (dBuV/m)	30-	kullarlarka fullaktor eraren eraktorika yipisegelika a j	turinda te de la companya de la comp	ii diga karabangka sakkan alkini adaka ara		Marie Ma				haldul ala
level (dBuV/m		induskani pulikulin maanu on terahili sipiaa ediga.	tumbbileh adel termen	izdynylyndysighureliddyddigyddyddyddyddyddyddyddyddyddyddyddyddydd		en a mainten de la companya de la c				
level (dBuV/m	30 -	industrishin menganyak industrishin sepimak kan	translate de la constante de cons	a diperdundungkan dikada pariiki ka bag		ntary mand play to the				And Autorit
level (dBuV/m	30-	industrial processing and the system citizens.	kingendukske/upode ^{la} ksyssonsk	is dipendurahan melahan						And Anglosis
level (dBuV/m	30 - 10 - 0.0	refundencer men en der des sydneselses e	tuendoksky produktory, r	ezdigenderendeken etterligen til Verdedig der en		ease sure distributed to the				2410
m/NuBn) level	30- 10-	helankeng teriphikan perupakan dan gepakan karan	turandok dari santuk terperunt	is digenter distribute and deptember to signify de ma		eranasan erikisete kilikal				2410
m/ngp) Jo.	30 - 10 - 0.0	Results	Factor	Limit	desable, volument to to make a graph to	Detector	Table	Height	ANT	1
	20 - 10 - 2370		Factor (dB)		Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	1
No.	30- 20- 10- 0.0- 2370	Results	Factor	Limit	Frequency (MHz) Over Limit	Detector		_	ANT Vertical	1
No.	20- 10- 0.0- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)		(o)	(cm)		Verdic
	20- 10- 2370 Frequency (MHz) 2401.912	Results (dBuV/m) 83.94	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 9.94	Peak	(o) 87.00	(cm)	Vertical	Verdic
No.	30- 20- 10- 2370 Frequency (MHz) 2401.912 2400.000	Results (dBuV/m) 83.94 60.14	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) 9.94 -13.86	Peak Peak	(o) 87.00 87.00	(cm) 100 100	Vertical Vertical	Pass

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Product:	SPEAKER BOX	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
ECC Bort 15C Class B 16Hz 186Hz 3			



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.860	90.53	-3.57	74.0	16.53	Peak	164.00	100	Horizontal	N/A
2	2483.500	54.87	-3.57	74.0	-19.13	Peak	164.00	100	Horizontal	Pass
2**	2483.500	40.28	-3.57	54.0	-13.72	AV	164.00	100	Horizontal	Pass

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]	Prod	duct:		SPEAKE	ER BOX	Detector Vertical						
	Mo	ode	K	eeping Tra	ansmitting		Test Vo	ltage		120V~		
Te	mpe	erature		24 de	g. C,		Humio	56% RH				
		Result:		Pas	SS							
	rt 15C (Class B 1GHz-18GHz	z -2			· ·			1			
	90-											
	90-			М	11							
	80-											
	70-											
	60-			-/								
Ê	50-				M2							
l (dBuV/m)	50-	ورز د فالار روز آنام هر روزان الار بگر و ایالی	Walter and the second second second		M2	And the state of t	مارير والمراجع والمرا	المراقع والعقومة المراقع والمتعادية	المقدور بالدراد المساورة والمالات	all hells are a locate and a literature person in hell	ر بنا انتخاب شد الأس و د	
level (dBuV/m)	50- 40-	erlifter der eille erlige eine eilde eine geber bei der	ernere personal de la		M2	And the second section is a second	المعادر	والمرادة والمرادة والمرادة والمرادة	and the same of th	er hall geter disseps who have described in	at they are the state of the st	
level (dBuV/m)	50- 40- 140-	odka keelelise madees jä teim	ernessensenselskiedelske		M2	A Company of the State of the S	the desired and the second	enteriore de la constitución de la	atilisti kalanga da daga da sa	ari kalbugan dalap mbadhan dagi masayidh	antipolitario dell'Altri	
level (dBuV/m)	50- 40-	odka kodolina odlacje si od	ai pada aran ay samudiy da Madabir		M2	Marked Mildely property of the second state of	all the state of t	sayteria edilerteratek edilege	talish an in she distribution of the	er kathagan den den den en op det b	and the second section	
level (dBuV/m)	50- 40- 140-	n digi sa da paga paga paga paga paga paga paga	ernessussenseriernesses de		M2	Marked Miller and a characters as	oliood seleste en under liste gedd	harten eila tenetikaikaikai	tagindi daga daga daga daga daga daga daga da	arikall yan dalapa d	aat je kaap misteleer	
level (dBuV/m)	30- 20- 10-	And Hala (Moon and Burner)	at politic secretary in the little debut				olio de idente e control de egoti	ngitera najiri menengan kelebu	tagi indi nancan di ajan, dawa di	eri kali gasa dan perdakan pe	assi ekanan berkeu	
level (dBuV/m)	50- 40- 30- 20-	And Hala (Moon and Burner)	ernekerinen personali kelebelah dibeb		2483		disord and have never the standard and t	hartera selfa frantiska eksar	tagiirdheinneachta dean cheannath	ar hall gen feingen beste eller versen fill	2500	
	30- 20- 10- 2470	And Hala (Moon and Burner)	Results	Factor		.5	Detector	Table	Height	ANT		
	30- 20- 10- 247C	70		Factor (dB)	2483	.5 Frequency (MHz)				ANT		
(m/ngp) level (dBn/m)	30- 20- 10- 247C	requency	Results		2483	.5 Frequency (MHz)		Table	Height	ANT Vertical	2500 Verdict	

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. 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 with gain 1.7dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Limit

N/A

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Test Result

Product:		SPE	AKER BO	OX		T	est Mode:		Keep	transmi	tting	
Mode		Keepir	ng Transm	itting		Te	est Voltage			120V~		
Temperature		2	24 deg. C,			I	Humidity	56% RH				
Test Result:			Pass			Detector				PK		
0dB Bandwidth			938kHz									
>	Delta 1 [T1]				RI	BW	30 k	Ηz	RF Att	2 () dB	
Ref Lvl				64 dB		BW	100 k					
10 dBm		937	.875751	.50 kHz	SI	TW	8.5 m	s	Unit		dBm	ı
							▼1	[T1]		-21.33	3 dBm	A
0					2				2.40	155210) GHz	
				77	\ _{\(\nu\)}		△ ¹	[T1]		-0.62	1 dB	
				ļ ,	V	1	V 2		937.87	l	kHz dBm	
-10			^	N		1		[++]	2.40	200902		
			1			\	\setminus , \mid					
-20D1 -21.65	dBm_						- T-					
-30			J. T. T.				V					114
		1	,					<u> </u>				
-40		<i>[</i>						<i>F</i>				
-40	~~	بممر						ſ,	M			
-50	-									<u></u>	Street, and	
-60												
-70												
-80												
-90												
-90 Center 2.4	02 GH	z		300	kHz/					Span 3	B MHz	Į.

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Product:		SPE	AKER BO	X		Test Mode	:	I	Keep tra	nsmittin	g
Mode			g Transmi			Test Voltag				0V~	
Temperature			4 deg. C,			Humidity		56% RH			
Test Result:			Pass			Detector		PK			
OdB Bandwidth			932kHz								
<u> </u>		Delta 1	[T1]		RBW	30 }	Hz	RF Z	Att	20 dI	3
Ref Lvl			-0.	.38 dB	VBW	100 }	Hz				
10 dBm		931	.863727	745 kHz	SWI	8.5 r	ıs	Uni	t	dI	3m
10						▼1	[T1]		-20	.71 dE	3m A
0				2	2			2.	44055	010 GH	
				$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	\ Λ	^ 1	[T1]	031	-0 86372	.38 dE	3
-10					1	∇ 2	[T1]	>3⊥.		.23 dE	- 1
-10			^	Λĺ	\	h		2.	44100	902 GH	_
2.0			1. I			1					
-20DI -2I.	23 dBm		non ha			1					1 _M
	f										
-30		1	,				pal				
		<i>[</i>					1				
-40	_A						-	Λ	<u></u>		
		Armore						\checkmark	Ţ		
-50											-
-60											7
-70											1
-80											
-90 Center 2	441 6	i z		300	kHz/		L	L	Sna	n 3 MH	
Date: 22	- 3.		300 kHz/						21-0		

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Mode Keeping Transmitting Test Voltage 120V Temperature 24 deg. C, Humidity 56% F Test Result: Pass Detector PK 10dB Bandwidth 926kHz Ref Lvl -0.11 dB VBW 30 kHz RF Att 2 10 dBm 925.85170341 kHz SWT 8.5 ms Unit -10 V2 (T1) -2.5 2.4795 21 -10 V2 (T1) -2.5 2.48000 30 -20 D1 722 11 dBm -3.0 -4.0 -4.0 -50 -60 -70 -70 -70 -70 -70	nsmitting
Temperature 24 deg. C, Humidity 56% F Test Result: Pass Detector PK 0dB Bandwidth 926kHz PREF Lv1	
Test Result: Pass Detector PK 0dB Bandwidth 926kHz Pett Lv1	
0dB Bandwidth 926kHz	K
Ref Lv1	-
10 dBm 925.85170341 kHz SWT 8.5 ms Unit V1 [T1] -2 8 2.4795821 9:5.8517034 V2 [T1] -3.1 10 2.4800090 -20 D1 -22.11 dBm 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 dB
10 V1 [T1] -2 .8 2.47958 21 2.47958 21 925.85170 34 V2 [T1] 2.48000 90 1	
V1 [T1]	dBm
-10	.89 dBm
-10 -20 D1 -22.11 dBm -40 -50 -60 -70	210 GHz
-20 D1 -22.11 dBm 1 2.48000 90 -30 -40 -50 -60 -70	.11 dB
-20 D1 -22.11 dBm	341 kHz
-30 -40 -50 -70	902 GHz
-30 -40 -50 -70	
-30 -40 -50 -60 -70	1M
-40 -50 -60 -70	
-50 -60 -70	
-50 -60 -70	
-60 -70	
-60 -70	
-70	Alexander
-70	
-80	
-90 Center 2.48 GHz 300 kHz/ Span	n 3 MHz

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I/4DQPSK Product:	CDI	EAKER BO)Y		T	est Mode:		Kaan tran	emitting	
								Keep tran		
Mode		ing Transm	-			st Voltage		120		
Temperature		24 deg. C,				Iumidity		56%		
Test Result:		Pass			ı	Detector		PF		
20dB Bandwidth		1.275MHz								
		1 [T1 n			BW	30 k		F Att	20 dB	
Ref Lvl 10 dBm	ndB BW	.20. 1.274549	00 dB		BW WT	100 k 8.5 m	Hz s II:	nit	dBm	1
10 (15)			710 11112			0.0 111			QDII	•
						▼1		-1	.89 dBm	A
0			,	l.				2.40200	902 GHz	
			$\wedge \wedge \wedge$	A A		ndH BW		1.27454	.00 dB 910 MHz	
		^	A A A	UY	امرا	$\Lambda_{n} \stackrel{\square}{\nabla}_{\mathbb{T}}$		-21	.92 dBm	
-10		VA/V	A.,			M		2.40136	573 GHz	1
		\mathcal{M}				₹ ∇		-21	.70 dBm	
-20	<u> </u>	4			\dashv		<u>Y</u>	2.40264	028 GHz	1
-30							1			1M
-40							bory	1		
-50 w/than								ممسا	harrians	
-60										
-70										
-80										
										1
-90 Center 2.4	02 GHz	L	300	kHz/				Spa	l .n 3 MHz	ī

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Product:	SPE	AKER BO	X		T	est Mode:		Keep tra	ansmitting	
Mode	Keepir	ng Transmi	tting		Те	est Voltage	;		0V~	
Temperature		24 deg. C,				Humidity		569	% RH	
Test Result:		Pass				Detector		I	PK	
0dB Bandwidth	1	.275MHz								
/File	Marker	1 [T1 n	idB]	R	BW	30 k	Hz R	F Att	20 dB	
Ref Lvl	ndB	20.	00 dB	V	BW	100 k	Ηz			
10 dBm	BW	1.274549	10 MHz	S	WT	8.5 m	s U	nit	dBm	ı
10						▼1	[T1]	-1	.27 dBm	A
			:					2.44100	902 GHz	A
0			ΛΛ.	Λ		ndB	3	20	.00 aB	İ
		^	[/ V N	U	١, ١	Λ _M VT1		1.27454	910 MHz	
-10		/₩	V		Ť	- M	. (++)	2.44036	573 GHz	İ
	Tr.	$ \wedge$				∇T	T2[T1]	-21	.00 dBm	
-20							7	2.44164	028 GHz	
-30	[1			1M2
-40							hy	Ŋ		
-50									J. 1-40	
-60										
-70										
-80										
-90 Center 2.441									ın 3 MHz]

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Product:		SPE	AKER BO	X		T	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmit	tting		Т	est Voltage			0V~	
Temperature			4 deg. C,				Humidity		56% RH		
Test Result:			Pass				Detector		PK		
20dB Bandwidth		1.	.275MHz								
<u> </u>		Marker	1 [T1 n	ıdB]	R	BW	30 k	Hz RI	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k	Hz			
10 dBm		BW 1	1.274549	10 MHz	S	WT	8.5 m	s Ur	nit	dBm	ı
10							V 1	[T1]	-2	.10 dBm	
									2.48000	902 GHz	A
0				5 A	(A		ndi		20	.00 dB	
				/\/\/	f ft	ŧ	BW		1.27454	910 MHz	
-10			WV	√/		سي		[T1]	2.47936	.07 dBm	
			\checkmark				\[\sigma_\tau^\tau\]	[T1]	-22	.32 dBm	
-20							<u> </u>	T2 V	2.48064	028 GHZ	
-30											1M2
-40	. n	W						ling	Λ,		
-50									- 	Carran Contraction of the Contra	
-60											
-70											
-80											
-90 Center 2	19 011	7		300	kHz/				Q >> 0	n 3 MHz	l.

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DPSK	and then have							T			
Product:		SPE	AKER BO	OX		To	est Mode:		Keep tran	smitting	
Mode		Keepii	ng Transm	itting		Te	st Voltage		120	V~	
Temperature		2	24 deg. C,			F	Humidity		56%	RH	
Test Result:			Pass]	Detector		Pk	ζ.	
20dB Bandwidth		1	.244MHz								
(E)		Marker	1 [T1 r	ndB]	R	вW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k	Ηz			
10 dBm		BW 1	.244488	898 MHz	SI	TW	8.5 m	s U	nit	dBr	n
10							▼1	[T1]	-1	.88 dBr	n
									2.40200	902 GHz	Z
0				- ^	75.		ndE	6	20	.00 aB	1
				//V	W	į	BW		1.24448		Z
-10			\ <u>_</u> \	\sim ·		\forall	TI	[T1]	-21 2.40139	.63 dBr	n
			$\int_{\mathbb{R}^{n}}$					[T1]	-21	579 GHz	n
-20		T	/					r2 7	2.40264	028 GHz	5
1MAX -30											1M
-40	Λ	M						1	M		
-50	4								· ·	Contragent Contraction	1
-60											1
-70											-
-80											1
-90	400 0			200	1-11 /					- 3 247	
Center 2.	402 Gl	12		300	kHz/				spa	n 3 MHz	5.

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DPSK				1		TZ 4 '44'			
Product:		SPEAKER BO			Test Mode:			nsmitting	
Mode	Ke	eping Transm	itting	Т	est Voltage		120)V~	
Temperature		24 deg. C,			Humidity		56%	RH	
Test Result:		Pass			Detector		P	K	
20dB Bandwidth		1.244MHz					_		
€	Marl	ker 1 [T1	ndB]	RBW	30 kH	z RE	7 Att	20 dB	
Ref Lvl	ndB	20	.00 dB	VBW	100 kH	z			
10 dBm	BW	1.24448	898 MHz	SWT	8.5 ms	Ur	nit	dBm	ı
10					▼1	[T1]	-1	.26 dBm	
							2.44100	902 GHz	A
0			~ A		ndB		20	.00 dB	
			$\downarrow / \downarrow \lor$	Jul	BW		1.24448	898 MHz	
-10			V 🗸	 ₩		[T1]	-21 2.44039!	.09 dBm 579 GHz	
		<i> </i>			VT\.	₂ [T1]	-21	.06 dBm	
-20		<u> </u>			T.	2" "	2.44164	028 GHz	
1MAX -30									1м
						ļ			
-40						M	\mathcal{M}		
-50	PU						<u>اکمیا</u>		
-60									
-70									
-80									
-90									
Center 2	.441 GHz		300 1	cHz/			Spai	n 3 MHz	

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ansmitting 20V~ % RH PK 20 dB dBm .15 dBm 902 GHz
% RH PK 20 dB dBm
PK 20 dB dBm
20 dB dBm
20 dB dBm
dBm
2.15 dBm
2.15 dBm
ZA.
1
.00 dB
898 MHz
2.42 dBm
579 GHz
028 GHZ
1M
may
an 3 MHz