



Test Type: Emissions

Product Type: Wireless Earbud

Product Name/Number: Model 911R

FCC ID: A94911R

IC: 3232A-911R

Prepared For: Product Assurance Engineering Department,

Bose Corporation

Name of manufacturing Bose Corporation

agency applying for equipment type approval

Postal Address of The Mountain

manufacturing Agency Framingham MA 01701

USA

Test Results: Pass

Applicable Standards: FCC 47 CFR PART 15 SUBPART C

ISED RSS-247 ISSUE 2 ISED RSS-GEN ISSUE 5

Report Number: *EMC.435911.22.215.1(4)*

General Comments/Special Test Conditions: This report relates only to the items tested.

	Print Name	Signature	Date
Prepared By:	Michael A. Royer	Michael O. Roze	September 5, 2022
Electrical Engineer Review* By:	Bryan Cerqua	Bryon H Cerquo	September 5, 2022

^{*} Since every test result is separately reviewed after its completion, the electrical engineer review indicated above represents a higher-level review to ensure this report lists and contains all applicable and appropriate requirements.

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Test Report Summary

Product Information:

Description

Truly Wireless In Ear (TWIE) earbud. The bud uses Bluetooth classic (BT) Bluetooth Low Energy (BLE), and Qualcomm High Speed (QHS). The QHS is used for bud-to-bud communications. The role of master/puppet can be changed to best meet radio link conditions during operation. The unit is not supplied with an AC to USB adapter. The antenna is an inverted F with a maximum gain of 1dBi formed by Laser Direct Sequence on the inside of the top cover of the earbud.

EUT Condition

Product was as built in the factory. And for the conducted measurements the antenna was removed, and coaxial cable was installed in its place. Where necessary USB debug wires were added to allow control of the Radio. Worst case data rate was determined to be 1Mbps.

Firmware Version 0.6.16, 0.11.2

Bluetest3 Version

Bluesuite 3.3.12

Setup (Cables and Accessories)

Support Equipment List						
Description Manufacturer Model Serial Number FCC ID						
AC Adapter Bose S008VU0500160 072246Z00802252AE N/A						

Test Objective:

Verify product meets all applicable EMC requirements for the Bluetooth Low Energy mode.

Results:

Product complies with all applicable EMC requirements. All final results represent worst-case emissions and/or immunity.

Conclusions:

The device under test (D.U.T.):

[X] meets all test standards on page 1 of this report.

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Test Results Summary

	TEST RESULT	
TEST NAME	PASS or N/A	COMMENT(S)
On Time and Duty Cycle	N/A	No limits, for information only
99% Occupied Bandwidth	N/A	No limits, for information only
6dB Occupied Bandwidth	Pass	
Output Power	Pass	
Power Spectral Density	Pass	
Conducted Spurious Emissions	Pass	
RF Conducted Emissions – AC Mains	Pass	
RF Radiated Emissions 30MHz -1GHz	Pass	
Radiated RF Emissions 1-25GHz	Pass	
Radiated Band Edge	Pass	

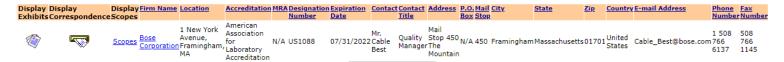
Environmental Conditions

Ambient:

Temperature: 22±4°C Humidity: 30-60%RH

Mains Voltage: 120VAC, 5VDC USB

FCC Test Site Accreditation:



Canadian Test Site Registration:

Organization	<u>CAB</u> identifier	Scope/Recognition Date (yyyy-mm-dd)	Expiration (yyyy-mm-dd)
BOSE CORPORATION	US0210	RSS-GEN (2019-02-11)	RECOGNIZED UNTIL:
1 New York Avenue		RSS-210 (2019-02-11)	2022-07-31
Framingham, MA		RSS-247 (2019-02-11)	
01701		RSS-248 (2021-11-19)	A2LA
UNITED STATES			ISO/IEC
			17025:2017
Company Number: 3232A			Expires:
			2022-07-31
Contact:			
Mario Espinal			
mario_espinal@bose.com			

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Report Number: EMC.435911.22.215.1(4)

Form FL300959 Rev 06 BOSE CONFIDENTIAL





RF Conducted Measurements

On Time and Duty Cycle

Model number	911R	Build Phase:	C1.5					
Tested by:	Mike Royer		Date:	July 21, 2022				
Requirements Standard(s):			Referenced S	tandard(s):				
EUT powered with:	5V USB Temp / Humidity:		n/a	Test location:	Braun Room			
Test equipment used TN's:	2409	2409						
EUT Serial number(s):	084232M1333A0	084232M1333A069AE						
EUT Software installed:	0.6.16+g302b20e							
EUT Modification(s):	Product was tes	Product was tested as built except the antenna was disconnected and a coaxial cable was						
	installed.	installed.						

Conclusion:

This test is for information only.

Limits:

None; for reporting purposes only.

Procedure:

ANSI C63.10, Section 11.6: Zero-Span Spectrum Analyzer Method.

Data Collection:

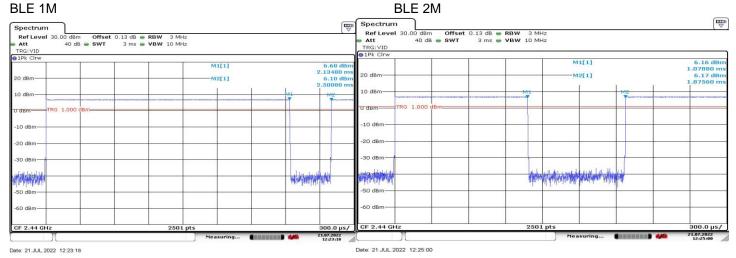
Report Number: EMC.435911.22.215.1(4)

Mode	ON Time (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
2.4GHz Band					
BLE 1M	2.135	2.5	.85	85	.700
BLE 2M	1.079	1.876	.575	58	2.40

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Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date
2409	Signal and Spectrum Analyzer	FSV40	101413	Rohde & Schwarz	21-Mar-2022	21-Mar-2024





99% Occupied Bandwidth

Model number	911R	Build Phase:	C1.5				
Tested by:	Mike Royer		Date:	August 3, 20)22		
Requirements Standard(s):	CFR 47 Part 15.	.247	Referenced S	tandard(s):	ANSI C.63.10-2013 6.9.3		
EUT powered with:	5V USB	Temp / Humidity:	n/a	Test locat	ion: Braun Room		
Test equipment used TN's:	2409						
EUT Serial number(s):	084232M1333A0	084232M1333A069AE					
EUT Software installed:	0.11.2						
EUT Modification(s):	Product was tes	ted as built except the	e antenna was di	sconnected a	and a coaxial cable was		
	installed.						

Conclusion:

This test is for information only.

Limits:

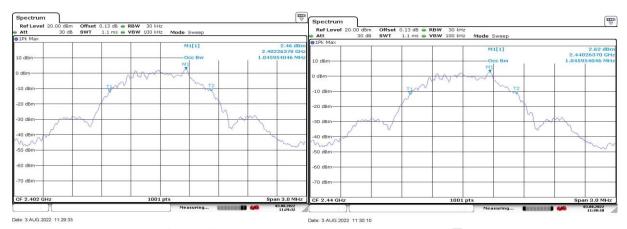
None; for reporting purposes only.





BLE 1M Data Collection:

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.046
Middle	2441	1.046
High	2480	1.046





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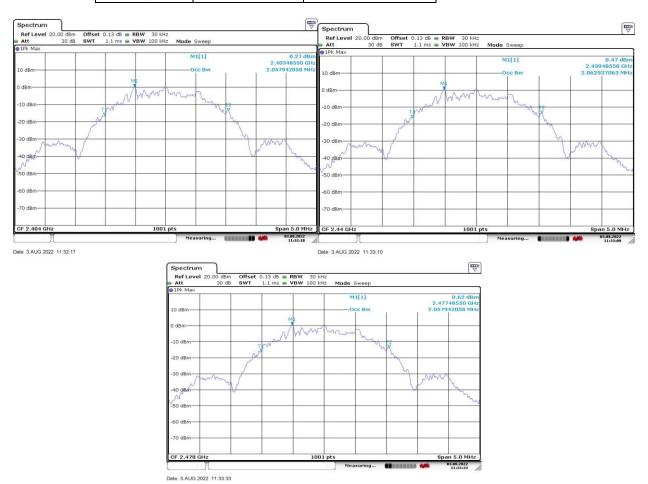
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BLE 2M Data Collection:

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2404	2.058
Middle	2441	2.063
High	2478	2.058



Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date
2409	Signal and Spectrum Analyzer	FSV40	101413	Rohde & Schwarz	21-Mar-2022	21-Mar-2024

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6dB Occupied Bandwidth

Model	911R	Build Phase:	C1.5						
Tested by:	Mike Royer		Date:	July 22, 202	2				
Requirements	FCC §15.247 (a) (2)	Referenced Standard(s):		ANSI 63.10:2013 - 11.8				
Standard(s):	RSS-247 5.2 (a)				ANSI 63. 10.2013 - 11.6				
EUT powered with:	5V USB	Temp / Humidity:	n/a	Test locati	ion: Braun Room				
Test equipment used TN's:	2409								
EUT Serial number(s):	084232M1333A0	69AE							
EUT Software installed:	0.11.2								
EUT Modification(s):	Product was tested as built except the antenna was disconnected and a coaxial cable was								
	installed.								

Conclusion:

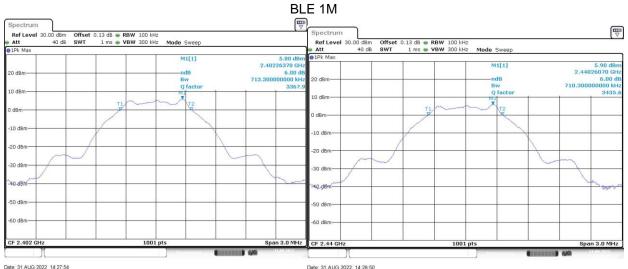
The lowest recorded 6dB bandwidth measured was 710 kHz which is more than the required minimum of 500 kHz by 210 kHz.





Data Collection:

	DTS Ba	ndwidth Su	mmary Tab	le (BLE)		
Channel	Frequency	Mode	DTS BW	Limit	Margin	Result
	MHz		kHz	kHz	kHz	
Low	2402	BLE 1M	713	500	213	Pass
Middle	2440	BLE 1M	710	500	210	Pass
High	2480	BLE 1M	770	500	270	Pass
Low	2404	BLE 2M	1222	500	722	Pass
Middle	2440	BLE 2M	1224	500	724	Pass
High	2478	BLE 2M	1222	500	722	Pass





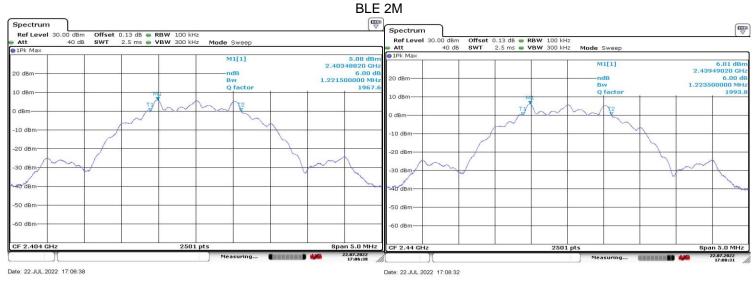
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Limits:

FCC §15.247 (a) (2)

RSS-247 5.2 (a)

ANSI 63.10:2013 - 6.9.2

The minimum 6 dB bandwidth shall be at least 500 kHz.





Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date
2409	Signal and Spectrum Analyzer	FSV40	101413	Rohde & Schwarz	21-Mar-2022	21-Mar-2024





Output Power

Model number	911R	Build Phase:	C1.5					
Tested by:	Mike Royer		Date:	July 19, 202	22			
Requirements	FCC §15.247		Referenced Standard(s):		ANS	SI C63.10-2013		
Standard(s):	RSS-247 5.4	(d)			11.9	9.1.1		
EUT powered with:	5V USB	Temp / Humidity:	n/a	Test location: Brau		Braun Room		
Test equipment used TN's:	2409							
EUT Serial number(s):	084232M1333	BA069AE						
EUT Software installed:	0.11.2	0.11.2						
EUT Modification(s):	Product was	Product was tested as built except the antenna was disconnected and a coaxial cable was						
	installed.							

Conclusion:

The Bose Model 911R passes output power by 6.25 dB.

Method from ANSI C63.10-2013 section 11.9.1 was used.

Cable loss was accounted for in the Spectrum Analyzer offset.

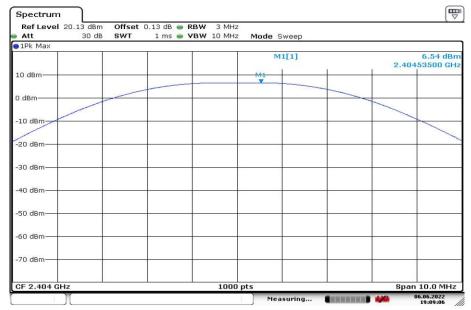




Data Collection:

	Output Power Summary Table										
Channel	Frequency	Mode	Output Power	Directional Gain	Limit	Margin	Result				
			dBm	dBi							
Low	2402	BLE 1M	6.35	1	21	14.65	Pass				
Middle	2440	BLE 1M	6.46	1	21	14.54	Pass				
High	2480	BLE 1M	6.61	1	21	14.39	Pass				
Low	2404	BLE 2M	6.54	1	21	14.46	Pass				
Middle	2440	BLE 2M	6.51	1	21	14.49	Pass				
High	2478	BLE 2M	6.75	1	21	14.25	Pass				

Example Plot, Low, BLE 2M



Date: 6.JUN.2022 19:09:07





Limits:

FCC §15.247 (b) (3)

RSS-247 5.4 (d)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 21 dBm.

Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date
2409	Signal and Spectrum Analyzer	FSV40	101413	Rohde & Schwarz	21-Mar-2022	21-Mar-2024





Power Spectral Density

Model Number	911R	Build Phase:	C1.5					
Tested by:	Mike Royer		Date:	July 25, 202	22			
Requirements	FCC §15.247	7 (e)	Referenced Standard(s): ANS		SI 63.10 (11.11)			
Standard(s):	RSS-247 (5.2	2) (b)			AINS	51 03.10 (11.11)		
EUT powered with:	5V USB	Temp / Humidity:	n/a	Test locat	ion:	Braun Room		
Test equipment used TN's:	2409							
EUT Serial number(s):	084232M1333	BA069AE						
EUT Software installed:	0.11.2							
EUT Modification(s):	Product was	Product was tested as built except the antenna was disconnected and a coaxial cable was						
	installed.							

Conclusion:

The Bose Model 911R passes spectral density by 14 dB.

Test method is ANSI C63.10-2013 (11.10.2)

The cable loss is accounted for in the Spectrum Analyzer offset. The earbud is set to transmit continuously, duty cycle = 100%.





Limits:

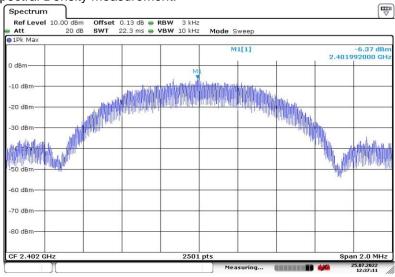
FCC §15.247 (e) RSS-247 (5.2) (b) ANSI 63.10 (11.10.2)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Data Collection:

Mode	Channel	Frequency MHz	Max reading from SA dBm	Limit dBm	Margin dB	Result
BLE 1M	Low	2402	-6.37	8	14.37	Pass
BLE 1M	Middle	2440	-6.27	8	14.27	Pass
BLE 1M	High	2480	-6	8	14	Pass
BLE 2M	Low	2404	-6.86	8	14.86	Pass
BLE 2M	Middle	2440	-6.84	8	14.84	Pass
BLE 2M	High	2478	-6.62	8	14.62	Pass

BLE 1M Low channel Power Spectral Density measurement.



Date: 25.JUL.2022 12:37:11

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Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date
2409	Signal and Spectrum Analyzer	FSV40	101413	Rohde & Schwarz	21-Mar-2022	21-Mar-2024





Conducted Spurious Emissions

Model number:	911R	Build Phase:	C1.5					
Tested by:	Mike Royer		Date: July 25 and 27, 2022					
Requirements	FCC §15.247	7 (d)	Referenced Standard(a), ANSI 62 10 (11			SI 63.10 (11.11)		
Standard(s):	RSS-247 5.5		Referenced Standard(s):		AIN	51 63.10 (11.11)		
EUT powered with:	5V USB	Temp / Humidity:	n/a	Test locati		Braun Room		
Test equipment used TN's:	2409							
EUT Serial number(s):	084232M1333	BA069AE						
EUT Software installed:	0.11.2							
EUT Modification(s):	Product was installed.	tested as built excep	t the antenna was d	isconnected a	and a	coaxial cable was		

Conclusion:

The Bose Model 911R passes Conducted Spurious Emissions by more than 10dB.

Limits

FCC §15.247 (d)

RSS-247 5.5

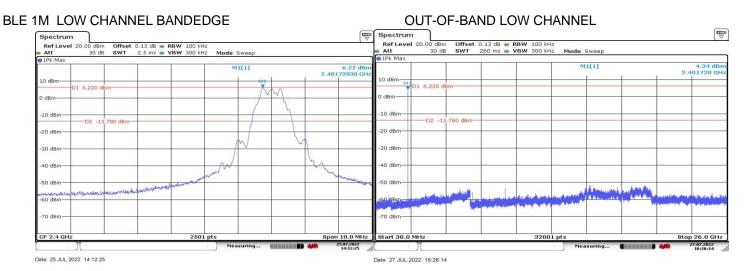
Output power was measured based on the use of a peak measurement; therefore, the required attenuation is 20 dB.

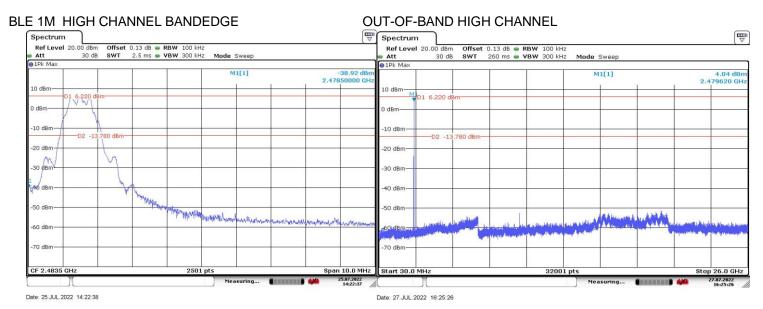
Note: Note that the BLE 2M rate does not support operation on channels 0,12, and 39 (2402, 2426, 2480).





Data Collection:





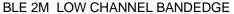
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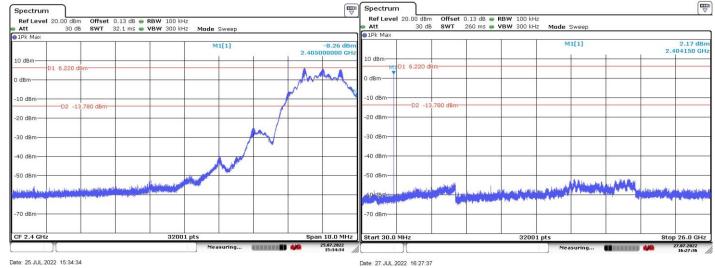
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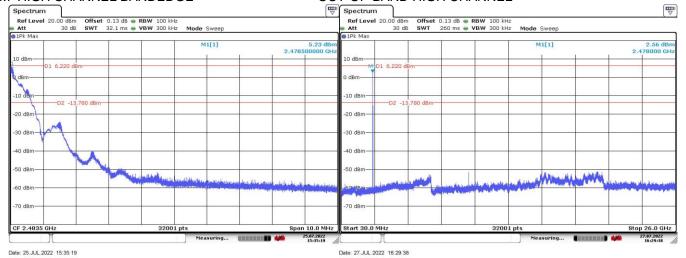


OUT-OF-BAND LOW CHANNEL



BLE 2M HIGH CHANNEL BANDEDGE

OUT-OF-BAND HIGH CHANNEL



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Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date
2409	Signal and Spectrum Analyzer	FSV40	101413	Rohde & Schwarz	21-Mar-2022	21-Mar-2024





Radiated Measurements RF Radiated Emissions 30MHz -1GHz

Test Information:

Project number (Integrity):	435911	Build Phase:	DV					
Tested by:	K Thibodeau		Date:	7/14/2022				
-								
Requirements Standard(s):	FCC §15.247 (d) RSS-247 Section 5.5		Referenced Standard(s)		ANSI C63.10-2013			
EUT powered with:	EUT battery	Temp / Humidity:	: N/A Test location: Maxwell Hou			Maxwell House		
Test equipment used TN's:	644,1541,2319,	2077,1445,1569						
	Right: Etched or	n bud:O4-2R SN: 084	232M21440096A	λ Ε				
EUT Serial number(s):	Left: Etched on	bud:O4-2L SN: 08423	3M21650042AE					
. ,	Case: 084231M	21500145AE						
EUT Software installed:	Right: 0.11.6							
	Left: 0.11.6	Lett: 0.11.6						
	Case: 0.11.2							
EUT Modification(s):	None		_					

Objective/Summary/Conclusion:

EUT meets FCC §15.247 (d) and RSS-247 Section 5.5 requirements with a worst-case passing margin of 20.8dB at 70.985MHz.

Additional EUT Information:

The EUT was tested in a 3m Semi Anechoic Chamber on an insulating turntable 80 cm high.

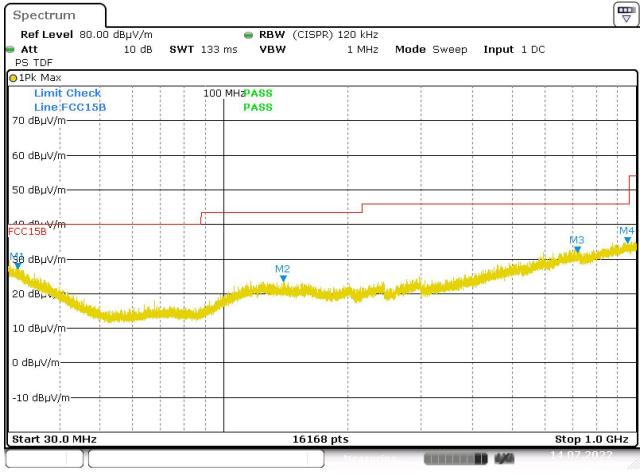
Test Setup Details:

EUT Emissions levels contained within this report are calculated on the following basis: **Radiated Emission Level (dB\muV/m)** = EMI Receiver Reading (dB μ V) + Antenna Correction Factor (dB/m) – Preamplifier Gain (dB) + Cable Loss (dB)

Data Collection:







Date: 14.JUL.2022 09:23:59

Plots are pre-	Plots are pre-compliance investigative information. Tables contain the compliance data.											
EUT S/N:	See page 1	ee page 1 Power applied: EUT battery Plot#										
EUT Mods:	None	lone										
EUT Setup:	EUT earbuds playing pi	UT earbuds playing pink noise from phone. ANR ON.										
Comments:												

	FCC §15.247 (d) RSS-247 Section 5.5 @ 3 Meters											
MK	Emission	Measured	Measured		Table						*Average detector	
#	Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height	used for frequencies	
	(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0°closest	(H/V)	(Meters)	above 1 GHz.	
		QP/AVG*	Peak	QP/AVG*	Peak	QP/AVG	Peak	to ant)			Notes/Mode	
1	31.675	19.00	28.60	40.0	N/A	21.0	N/A	0	V	1.00	Noise floor	
2	139.046	10.70	21.20	43.5	N/A	32.8	N/A	0	V	1.00	Noise floor	
3	720.291	20.50	31.60	46.0	N/A	25.5	N/A	233	V	1.00	Noise floor	
4	951.894	22.50	33.70	46.0	N/A	23.5	N/A	360	V	1.00	Noise floor	

Limits:

Standard	Freq Range	Limits (dBuV QP	1)	Comments
Standard	(MHz)	Class A	Class B	

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		10 m	3 m ²	3 m	Measurements above 1 GHz are made using average and peak detectors.
	30-88	39	49	40	Mains cables draped to floor, not bundled.
FCC §15.247 (d)	88-216	43.5	53.5	43.5	*For measurements above 1 GHz, peak
RSS-247 Section 5.5	216-960	46.5	56.5	46	limits must also be met that are 20 dB
	>960	49.5*	59.5*	54*	higher than average limits.
;	andwidth and De	tector Settings	S:		
Freq. Range (MHz)	RBW (kHz)	VBW (kHz)	Dete	ector	
30 – 1000	120	>300	Q	Р	
> 1000	1000	>1000	Pk and	DVA E	

Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Calibration	Calibration Due Date	Most Recent Verification	Verification Due Date
644	Maxwell House 3 Meter Semi- Anechoic Chamber	N/A	1698A	EM Test	N/A	N/A	19-Jan-2022	19-Jan-2024
1541	Antenna 30MHz - 6GHz	JB6	A050807	Sunol Sciences Corp	14-Dec-2021	14-Dec-2023	N/A	N/A
2319	EMI Test Receiver	ESR26	101276	Rohde & Schwarz	17-Mar-2022	17-Mar-2023	N/A	N/A
2077	PreAmplifier	N/A	N/A	Bose Corporation	N/A	N/A	01-Sep-2021	01-Sep-2022
1445	Maxwell House Radiated Emissions Cable Set	N/A	N/A	Bose Corporation	N/A	N/A	01-Sep-2021	01-Sep-2022
1569	Comb Generator 20MHz - 4.5GHz	CG- 520	451016	Com-Power Corporation	N/A	N/A	13-Jul-2022	13-Jul-2023

Uncertainty:

Uncertainty Budget								

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Title:	Radiat	ed RF Emissio	ns (30MH	z-1GHz)				
Source of Uncertainty	Value units:± dB	Distribution	Divisor	Uncertainty (± dB)				
Receiver - absolute level	0.3	Rect.	1.73	0.17				
Receiver - frequency response	0.8	Rect.	1.73	0.46				
Receiver - attenuator switching	0.2	Rect.	1.73	0.12				
Receiver - bandwidth switching	0.2	Rect.	1.73	0.12				
Receiver - display	0.5	0.5 Rect.		0.29				
Antenna factor	0.8	Norm.	2.00	0.38				
Antenna directivity	1.0	Norm.	2.00	0.50				
Preamp correction factor	0.5	Norm.	2.00	0.25				
Cable correction factor	0.5	0.5 Norm.		0.25				
Site imperfection - NSA	4.0	Triang.	2.45	1.63				
Test table impact	1.1	Rect.	1.73	0.64				
Combined uncertainty (RSS): 1.98								
Coverage factor (2 sigma): 2.00								
Exte	ended uncert	ainty (95% cor	nfidence):	3.97				





Radiated Spurious Emissions 1-25GHz

Project number (Integrity):	911R	Build Phase:	C1.5						
Tested by:	Mike Royer		Date:	14-22, June, 2022					
Requirements Standard(s):	FCC 15.247(d) RSS-247 Sectio	n 5.5	Referenced Standard(s): ANSI C63.10-201						
EUT powered with:	Battery	Temp / Humidity:	N/A	Test location: Marconi Manor					
Test equipment used TN's:	2385,1663,2357	7,2479,2373,2349,260	2,2414,1757,237	79,1596					
EUT Serial number(s):	084233M2011G	016AE							
EUT Software installed:	0.11.2	0.11.2							
EUT Modification(s):	USB Debug wire	es were attached to th	e earbud to allov	w control of th	ne radio.				

Conclusion:

The Bose model 911R passes radiated emissions from 1-25GHz.

1-18 GHz the worst case peak emission is 51 dBuV/m. The average limit is 54. The margin is 3 dB. 18-25 GHz the worst case peak emission is 57.1 dBuV/m. The average limit is 74. The margin is 16.9 dB.

The blue trace is peak mode. The black trace is average detection.

Procedure:

Each mode tested was measured at all 10 Harmonics, at the low, middle, and high transmit frequencies.

Pretesting showed that the worst orientation was a vertical position. The EUT was taped to a bamboo skewer and stuck into the test support at 150cm above the floor. From there the table was rotated and the antenna scanned up down and horizontal and vertical polarizations.

The 2.4 GHz band is notched out with a filter to protect the pre-amplifier from overloading.

The average measurements are taken from the receiver function of the spectrum analyzer, with a resolution bandwidth of 1 MHz.

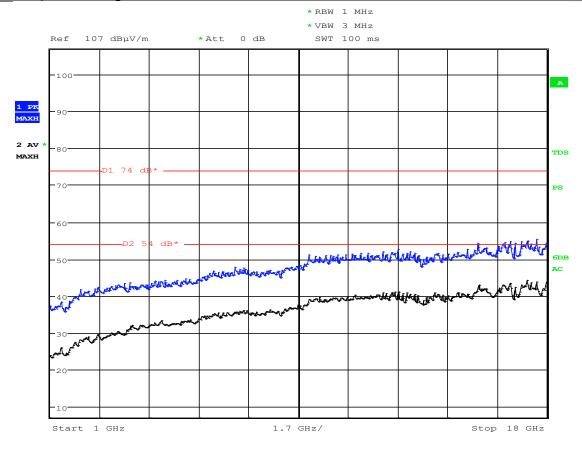
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Data Collection:

EUT S/N:	Right	Power applied:	Battery	Meas	#	1
EUT Mods:						
EUT Setup:	BLE 1M Low channel					
Comments:	Transmitting on 2402 M	1Hz				

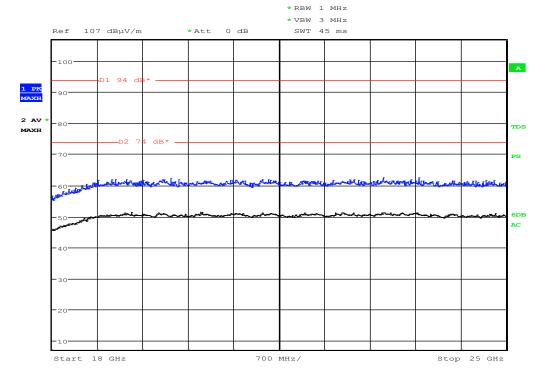


Date: 20.JUN.2022 14:42:04

3m Test Distance







Date: 21.JUN.2022 17:14:38

30 cm Measurement Distance

Limit calculation:

The E field in the far field observes the inverse square law. So that the difference in field strength difference in decibels is;

$$20 \log \left(\frac{D1}{D2} \right) = 20 \log 10 = 20$$

Peak limit of 74 becomes 94 dBuV at 30cm by adding 20 to 74.

Average limit of 54 becomes 74 dBuV at 30cm by adding 20 to 54.





EUT S/N:	Continued from above	Power applied:	Battery		Meas#	1
EUT Mods:						
EUT Setup:	BLE 1M Low channel					
Comments:	Transmitting on 2402 MI	Ηz				

			FCC 15.247	(d) and RSS-	247 Section	on 5.5 @ 3	3 Meters			
Emission	Measured	Measured						Rece	eiving Ant	
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height	
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)	
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode
4804	34.60	46.00	54.0	74.0	19.4	28.0	170	٧	1.7	
7206	30.70	44.00	54.0	74.0	23.3	30.0	0	Н	1.5	Noise floor
9608	33.30	47.10	54.0	74.0	20.7	26.9	251	Н	1.6	Noise floor
12010	34.30	47.00	54.0	74.0	19.7	27.0	0	Н	1.5	Noise floor
14412	34.60	47.70	54.0	74.0	19.4	26.3	0	Н	1.5	Noise floor
16814	36.20	49.70	54.0	74.0	17.8	24.3	0	Н	1.5	Noise floor

	FCC 15.247(d) and RSS-247 Section 5.5 @ 30 cm										
Emission	Measured	Measured					Table	Rece	eiving Ant		
Frequency	Amplitude	Amplitude	Limit	Limit	Margi n	Margi n	Azimuth	Pol	Height		
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)		
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode	
19216	44.20	56.90	74.0	94.0	29.8	37.1				Noise floor	
21618	43.20	55.70	74.0	94.0	30.8	38.3				Noise floor	
24020	43.00	56.70	74.0	94.0	31.0	37.3				Noise floor	

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EUT S/N:	Right	Power applied:	Battery	Meas	# 2	<u>}</u>
EUT Mods:						
EUT Setup:	BLE 1M Mid channel					
Comments:	Transmitting on 2440 M	lHz				

			FCC 15.247	(d) and RSS-	247 Section	on 5.5 @	3 Meters			
Emission	Measured	Measured					Table	Rece	eiving Ant	
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height	
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)	
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode
4880	33.30	45.20	54.0	74.0	20.7	28.8	146	V	1.7	
7320	31.80	45.40	54.0	74.0	22.2	28.6	0	Н	1.5	Noise floor
9760	35.10	49.20	54.0	74.0	18.9	24.8	331	Н	1.5	Noise floor
12200	34.90	48.70	54.0	74.0	19.1	25.3	0	Н	1.5	Noise floor
14640	35.00	47.50	54.0	74.0	19.0	26.5	0	Н	1.5	Noise floor
17080	36.50	49.40	54.0	74.0	17.5	24.6	0	Н	1.5	Noise floor

	FCC 15.247(d) and RSS-247 Section 5.5 @ 30 cm													
Emission	Measured	Measured	1 30 10	= 17 (a) and 110	20 2 17 0	2011011 010	Table	Rece	eiving Ant					
Frequency	Amplitude	Amplitude	Limit	Limit	Margi n	Margi n	Azimuth	Pol	Height					
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)					
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)	Í		Notes/Mode				
19520	43.20	56.70	74.0	94.0	30.8	37.3				Noise floor				
21960	43.70	56.50	74.0	94.0	30.3	37.5				Noise floor				
24400	43.60	56.20	74.0	94.0	30.4	37.8				Noise floor				

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EUT S/N:	Right	Power applied:	Battery		Meas#	3
EUT Mods:						
EUT Setup:	BLE 1M High channel 2	2480 MHz				
Comments:						

			FCC 15.247	(d) and RSS-	247 Section	on 5.5 @ 3	3 Meters			
Emission	Measured	Measured					Table	Rece	eiving Ant	
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height	
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)	
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode
4960	30.80	43.70	54.0	74.0	23.2	30.3	113	V	1.6	
7440	31.80	45.50	54.0	74.0	22.2	28.5	0	Н	1.5	Noise floor
9920	35.50	49.60	54.0	74.0	18.5	24.4	0	Н	1.5	Noise floor
12400	35.10	48.60	54.0	74.0	18.9	25.4	0	Н	1.5	Noise floor
14880	35.90	49.60	54.0	74.0	18.1	24.4	0	Н	1.5	Noise floor
17360	38.10	51.00	54.0	74.0	15.9	23.0	0	Н	1.5	Noise floor

	FCC 15.247(d) and RSS-247 Section 5.5 @ 30 cm													
Emission	Measured	Measured					Table	Rece	eiving Ant					
Frequency	Amplitude	Amplitude	Limit	Limit	Margi n	Margi n	Azimuth	Pol	Height					
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)					
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode				
19824	44.00	56.40	74.0	94.0	30.0	37.6				Noise floor				
22302	44.10	57.00	74.0	94.0	29.9	37.0				Noise floor				
24780	43.90	57.00	74.0	94.0	30.1	37.0				Noise floor				

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EUT S/N:	Right	Power applied:	Battery	Meas#	4
EUT Mods:					
EUT Setup:	BLE 2M Low channel 2	404 MHz transmit			
Comments:					

	FCC 15.247(d) and RSS-247 Section 5.5 @ 3 Meters													
Emission	Measured	Measured					Table	Rece	eiving Ant					
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height					
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)					
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode				
4808	31.40	45.10	54.0	74.0	22.6	28.9	109	V	1.6					
7212	30.80	43.20	54.0	74.0	23.2	30.8	0	Н	1.5	Noise floor				
9616	31.10	44.10	54.0	74.0	22.9	29.9	0	Н	1.5	Noise floor				
12020	34.40	46.70	54.0	74.0	19.6	27.3	0	Н	1.5	Noise floor				
14424	35.00	47.50	54.0	74.0	19.0	26.5	0	Н	1.5	Noise floor				
16828	35.10	47.80	54.0	74.0	18.9	26.2	0	Н	1.5	Noise floor				

	FCC 15.247(d) and RSS-247 Section 5.5 @ 30 cm													
Emission	Measure d	Measure d					Table	Recei	ving Ant					
Frequency	Amplitud e	Amplitud e	Limit	Limit	Margin	Margin	Azimuth	Pol	Height					
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters					
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)		,	Notes/Mode				
19232	44.30	56.90	74.0	94.0	29.7	37.1				Noise floor				
21636	43.30	55.70	74.0	94.0	30.7	38.3				Noise floor				
24040	43.20	55.90	74.0	94.0	30.8	38.1				Noise floor				





EUT S/N:	Right	Power applied:	Battery	Meas#	5
EUT Mods:					
EUT Setup:	BLE 2M Mid channel 24	440 MHz			
Comments:					

	FCC 15.247(d) and RSS-247 Section 5.5 @ 3 Meters													
Emission	Measured	Measured					Table	Rece	eiving Ant					
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height					
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)					
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode				
4880	35.20	49.40	54.0	74.0	18.8	24.6	105	V	1.5					
7320	31.80	44.40	54.0	74.0	22.2	29.6	0	Н	1.5	Noise floor				
9760	33.10	48.20	54.0	74.0	20.9	25.8	0	Н	1.5	Noise floor				
12200	34.90	47.90	54.0	74.0	19.1	26.1	0	Н	1.5	Noise floor				
14640	35.00	48.20	54.0	74.0	19.0	25.8	0	Н	1.5	Noise floor				
17080	36.50	49.50	54.0	74.0	17.5	24.5	0	Н	1.5	Noise floor				

	FCC 15.247(d) and RSS-247 Section 5.5 @ 30 cm												
Emission	Measured	Measured						Rece	eiving Ant				
Frequency	Amplitude	Amplitude	Limit	Limit	Margi n	Margi n	Azimuth	Pol	Height				
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)				
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode			
19520	43.20	56.80	74.0	94.0	30.8	37.2				Noise floor			
21960	43.70	57.10	74.0	94.0	30.3	36.9				Noise floor			
24400	43.60	56.60	74.0	94.0	30.4	37.4				Noise floor			

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EUT S/N:	Right	Power applied:	Battery	Mea	as#	6
EUT Mods:						
EUT Setup:	BLE 2M High channel 2	2478 MHz				
Comments:						

	FCC 15.247(d) and RSS-247 Section 5.5 @ 3 Meters										
Emission	Measured	Measured					Table	Rece	eiving Ant		
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height		
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)		
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode	
4956	29.20	43.50	54.0	74.0	24.8	30.5	0	V	1.5	Noise floor	
7434	31.50	44.40	54.0	74.0	22.5	29.6	0	Н	1.5	Noise floor	
9912	33.80	49.60	54.0	74.0	20.2	24.4	0	Н	1.5	Noise floor	
12390	35.50	48.30	54.0	74.0	18.5	25.7	0	Н	1.5	Noise floor	
14868	35.60	48.60	54.0	74.0	18.4	25.4	0	Н	1.5	Noise floor	
17346	38.60	51.00	54.0	74.0	15.4	23.0	0	Н	1.5	Noise floor	

	FCC 15.247(d) and RSS-247 Section 5.5 @ 30 cm										
Emission	Measured	Measured						Rece	eiving Ant		
Frequency	Amplitude	Amplitude	Limit	Limit	Margi n	Margi n	Azimuth	Pol	Height		
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0° closest	(H/V)	(Meters)		
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode	
19824	44.00	56.70	74.0	94.0	30.0	37.3				Noise floor	
22302	44.10	56.60	74.0	94.0	29.9	37.4				Noise floor	
24780	43.90	56.90	74.0	94.0	30.1	37.1				Noise floor	

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Form FL300959 Rev 06 BOSE CONFIDENTIAL





Limits:

	Freq Range	Lim	nits (dBuV QF	P ¹)	Comments
Standard	(MHz)	Clas	Class A		Measurements above 1 GHz are made using
		10 m	3 m	3 m	average and peak detectors.
	30-88	39	49	40	Mains cables draped to floor, not bundled.
FCC 15.247(d) and	88-216	43.5	53.5	43.5	*For measurements above 1 GHz, peak
RSS-247 Section 5.5	216-960	46.5	56.5	46	limits must also be met that are 20 dB
	>960	49.5*	59.5*	54*	higher than average limits.
			Class A	Class B	Mains cables bundled not draped to floor.
			3 m	3 m	*For measurements above 1 GHz, peak
	30-230		50	40	limits must also be met that are 20 dB
CISPR 32	230-1000		57	47	higher than average limits.
CISFN 32	Freq Range				
	(GHz)				
	1-3		56*	50*	
	3-6		60*	54*	
E	Bandwidth and D	etector Setting	s:		
Freq. Range (MHz)	RBW (kHz)	VBW (kHz)	Detector QP		
30 – 1000	120	>300			
> 1000	1000	>1000	Pk and	d AVG	





Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Service	Service Due Date
2385	Marconi Manor	3 Meter Semi Anechoic Chamber	N/A	AP Americas	20-Jan-2022	
1663	EMI Test Receiver	ESU40	100098	Rohde & Schwarz	18-Mar-2022	18-Mar- 2023
2357	RF Cable 30MHz-18GHz	TRU-300	TRU- 12707-03	TRU Corporation	20-Mar-2022	20-Mar- 2023
2479	RF cable 30MHz-18GHz	257-257-3052640	N/A	SRC Haverhill	20-Mar-2022	20-Mar- 2023
2349	Double Ridge Waveguide Horn Antenna 1-18GHz	3117	00152406	ETS Lindgren	17-Feb-2021	17-Feb- 2023
2602	Miteq pre-amp 1-18GHz 35dB	AFS42-01001800-28- 10P-42	N/A	Miteq	07-Jul-2021	07-Jul-2022
2414	Band Reject Filter (2.4GHz)	BRM50702-07	003	Micro-Tronics	20-Mar-2022	20-Mar- 2023
1757	18GHz-40GHz Preamp	JS4018004000-30-8P- A1	1406279	Miteq	07-Jul-2021	07-Jul-2022
1596	Horn Antenna 18GHz - 26.5GHz	AT4640	309234	Amplifier Research		





Uncertainty:

Uncerta	inty Budget						
Title:	Radiated	d Emissions (>	·1GHz)				
Source of Uncertainty	Value units:± dB	Distribution	Divisor	Uncertainty (± dB)			
Receiver - absolute level	0.3	Rect.	1.73	0.17			
Receiver - frequency response	2.0	Rect.	1.73	1.16			
Receiver - attenuator switching	0.2	Rect.	1.73	0.12			
Receiver - bandwidth switching	0.2	Rect.	1.73	0.12			
Receiver - display	0.5	Rect.	1.73	0.29			
Antenna factor	0.4	Norm.	2.00	0.20			
Antenna directivity	1.0	Norm.	2.00	0.50			
Preamp correction factor	0.5	Norm.	2.00	0.25			
Cable correction factor	0.5	Norm.	2.00	0.25			
Site imperfection - NSA	3.0	Triang.	2.45	1.22			
Test table impact	1.7	Rect.	1.73	0.98			
Combined uncertainty (RSS):							
Coverage factor (2 sigma):							
Ext	ended uncert	ainty (95% co	nfidence):	4.17			





Radiated Band Edge

Model Number:	911R	Build Phase:	C1.5							
Tested by:	Mike Royer		Date:	ate: 20 June 2022						
Requirements Standard(s):	CFR47 Part 15.2 RSS-247	247	Referenced S	tandard(s):	ANSI C63.10					
EUT powered with:	Battery	Temp / Humidity:	N/A Test location: Marconi Man							
Test equipment used TN's:	1663,2373,2479	,2357,2349,2385, 29	29							
EUT Serial number(s):	084232M2011G0	99AE								
EUT Software installed:	0.6.18+g5d320d0									
EUT Modification(s):	USB Debug wire	es were attached to the	e earbud to allov	w control of th	ne radio.					

Conclusion:

The Bose model 911R passes Radiated Band Edge.

The blue trace is peak mode. The black trace is average detection.

Note that the EUT was placed on a skewer stick and rotated in 3 axes to find the maximum signal strength.

Procedure:

Taking a RMS average measurement while the EUT is transmitting in 100% duty cycle. If the EUT supports more than one operational duty cycle the worst-case value should be used, i.e., the highest operational duty cycle.

The average detector built into the receiver was used for taking average measurements.

For BLE 1M lower band edge measurements the transmit frequency was 2402 MHz.

For BLE 1M upper band edge measurements the transmit frequency was 2480 MHz

For BLE 2M lower band edge measurements the transmit frequency was 2404 MHz.

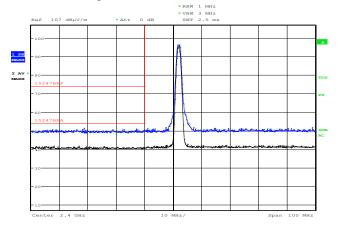
For BLE 2M upper band edge measurements the transmit frequency was 2478 MHz



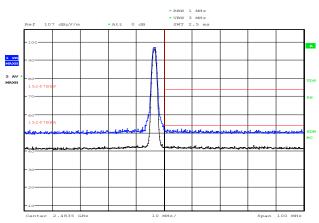


Data Collection:

Lower Bandedge, BLE 1M



Upper Bandedge, BLE 1M

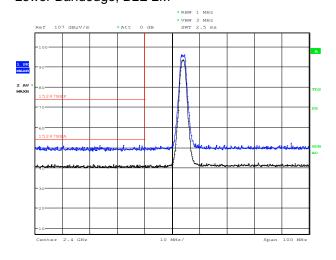


Date: 21.JUN.2022 12:07:44

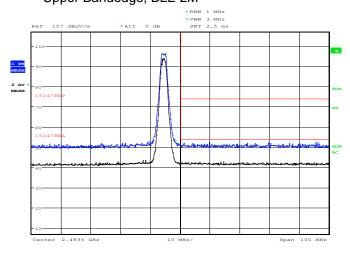
Lower Bandedge, BLE 2M

Date: 21.JUN.2022 12:04:57

Date: 21.JUN.2022 12:16:42



Upper Bandedge, BLE 2M



Date: 21.JUN.2022 12:13:50

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	FCC 15.247d and RSS-247 Section 5.5 @ 3 Meters										
Emission	Measured	Measured		RBW 1 MHz			Table	Receiving Antenna			
Frequency	Amplitude	Amplitude	Limit	Limit	Margin	Margin	Azimuth	Pol	Height		
(MHz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(0°closest	(H/V)	(Meters)		
	AVG	Peak	AVG	Peak	AVG	Peak	to ant)			Notes/Mode	
2483.500	37.70	51.30	54.0	74.0	16.3	22.7	0	Η	150.00	BLE 1M, 100% DC	
2483.500	37.60	50.90	54.0	74.0	16.4	23.1	0	Η	150.00	BLE 2M, 100% DC	





Limits:

	Freq Range	Limits (dBuV QP1)		P ¹)	Comments
Standard	(MHz)	Clas	ss A	Class B	Measurements above 1 GHz are made using
		10 m	3 m	3 m	average and peak detectors.
	30-88	39	49	40	Mains cables draped to floor, not bundled.
FCC 15.247 and	88-216	43.5	53.5	43.5	*For measurements above 1 GHz, peak
RSS-247	216-960	46.5	56.5	46	limits must also be met that are 20 dB
	>960	49.5*	59.5*	54*	higher than average limits.
			Class A	Class B	Mains cables bundled not draped to floor.
			3 m	3 m	*For measurements above 1 GHz, peak
	30-230		50	40	limits must also be met that are 20 dB
CISPR 32	230-1000		57	47	higher than average limits.
CISPN 32	Freq Range				
	(GHz)				
	1-3		56*	50*	
	3-6		60*	54*	
Е	Bandwidth and D	etector Setting	s:		
Freq. Range (MHz)	RBW (kHz)	VBW (kHz)	Detector QP		
30 – 1000	120	>300			
> 1000	1000	>1000	Pk and	DVA I	

Equipment Used:

TN	Description	Model	S/N	Manufacturer	Most Recent Service	Service Due Date
1663	EMI Test Receiver	ESU40	100098	Rohde & Schwarz	18-Mar-2022	18-Mar-2024
2479	RF cable 30MHz-18GHz	257-257-3052640	N/A	SRC Haverhill	20-Mar-2022	20-Mar-2023
2357	RF Cable 30MHz-18GHz	TRU-300	TRU-12707- 03	TRU Corporation	20-Mar-2022	20-Mar-2023
2349	Double Ridge Waveguide Horn Antenna 1-18GHz	3117	00152406	ETS Lindgren	24-Feb-2022	24-Feb-2024
2385	Marconi Manor	3 Meter Semi Anechoic Chamber	N/A	AP Americas	20-Jan-2022	20-Jan-2024
2929	Mini-circuits band-edge pre-amp 300 MHz - 8 GHz 20 dB	ZX60HV-83LN+	N/A	Mini-Circuits	20-Mar-2022	20-Mar-2023





Uncertainty:

Uncerta	inty Budget									
Title:	Radiated	·1GHz)								
Source of Uncertainty	Value units:± dB	Distribution	Divisor	Uncertainty (± dB)						
Receiver - absolute level	0.3	Rect.	1.73	0.17						
Receiver - frequency response	2.0	Rect.	1.73	1.16						
Receiver - attenuator switching	0.2	Rect.	1.73	0.12						
Receiver - bandwidth switching	0.2	Rect.	1.73	0.12						
Receiver - display	0.5	Rect.	1.73	0.29						
Antenna factor	0.4	Norm.	2.00	0.20						
Antenna directivity	1.0	Norm.	2.00	0.50						
Preamp correction factor	0.5	Norm.	2.00	0.25						
Cable correction factor	0.5	Norm.	2.00	0.25						
Site imperfection - NSA	3.0	Triang.	2.45	1.22						
Test table impact	1.7	Rect.	1.73	0.98						
Combined uncertainty (RSS):										
Coverage factor (2 sigma):										
Ext	ended uncert	ainty (95% co	Extended uncertainty (95% confidence):							

End of Report