

Report No.: NTC2206497FV00

FCC RADIO TEST REPORT

Applicant..... Zeroplus Technology Corporation

Address...... : 3F., No.121, Jian 8th Rd., Chung Ho District, New Taipei City, Taiwan

Manufacturer..... : Nanrui Electronic Technology Co., Ltd.

Address...... : No. 97 West Road, Shiwan town, Boluoxian, Huizhou, Guangdong, China

Factory..... Nanrui Electronic Technology Co., Ltd.

Address...... : No. 97 West Road, Shiwan town, Boluoxian, Huizhou, Guangdong, China

Product Name..... Brook Wireless Headset

Brand Name.....:



Model No. : ZPP0061, AJZP-G919(For model difference refer to section 2)

FCC ID..... : 2ADKM0061

Measurement Standard......: 47 CFR FCC Part 15, Subpart C (Section 15.249)

Receipt Date of Samples.... : June 30, 2022

Date of Tested...... : June 30, 2022 to July 25, 2022

Date of Report.....: August 11, 2022

This report shows that above equipment is technically compliant with the requirements of the standards above.

All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore

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Prepared by

Rose Hu / Project Engineer

Iori Fan / Authorized Signatory





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Revision History

Report Number	Description	Issued Date
NTC2206497FV00	Initial Issue	2022-08-11





1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	§15.207 (a) AC Power Conducted Emission		
§15.249(a)/ 15.209	Radiated Emissions	PASS	
§15.249(d)/ 15.205 Band Edge		PASS	
§15.215(c) 20dB Bandwidth		PASS	
§15.203	Antenna Requirement	PASS	





2. General Description of EUT

Product Information				
Product name:	Brook Wireless Headset			
Main Model Name:	ZPP0061			
Additional Model Name:	AJZP-G919			
Model Difference:	Both of models have the same circuitry, electrical mechanical, PCB Layout and			
	physical construction. Their difference is model number only due to trading			
	purpose.			
S/N:	2203-1132			
Brand Name:	Breek			
Hardware version:	Not stated			
Software version:	Not stated			
Rating:	For Headset unit: DC 5V come from the Type-C Port or			
	DC 3.7V come from the internal battery			
	For Dongle unit: DC 5V come from PC			
Typical arrangement:	Table-top			
I/O Port:	N/A			
Accessories Information				
Adapter:	N/A			
Cable:	USB Line: 0.51m unshielded;			
	Audio Line: 1.13m unshielded			
Other:	N/A			
	1			





Additional information	
Note:	According to the model difference, all tests were performed on model ZPP0061.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification (2.4G Function)				
Frequency Range:	2406-2478MHz			
Modulation Type:	GFSK			
Number of Channel:	25 (refer to following channel list for details)			
Antenna Type:	Ant 0: PCB antenna*1 Ant 1: FPC antenna*1 Remark: The headset units designed two optional antennas, and both the antennas cannot be transmission simultaneously during normal operating. The transmitting & receiving antenna will be adaptively selected based on the signal environment.			
Antenna Gain:	0 dBi (Declared by manufacturer)			





Channel list					
Channel	Frequency (MHz)	Channel	Frequency (MHz)		
1	2406	15	2448		
2	2409	16	2451		
3	2412	17	2454		
4	2415	18	2457		
5	2418	19	2460		
6	2421	20	2463		
7	2424	21	2466		
8	2427	22	2469		
9	2430	23	2472		
10	2433	24	2475		
11	2436	25	2478		
12	2439				
13	2442				
14	2445				

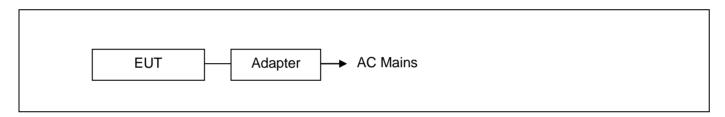


3. Test Channels and Modes Detail

Mode		Cha	nnel	Frequency (MHz)	Modulation
1	TX	Low	1	2406	GFSK
2	TX	Mid	12	2439	GFSK
3	TX	High	25	2478	GFSK
4.	Normal Mode				

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.





6. Description of Support Device

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	Adapter	HUWEI	HW-050200C01			Provided by the Lab.

No.	Test Software	Modulation	Power Setting	



7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with
Authorizations		CNAS/CL01
		Listed by CNAS, August 13, 2018
		The Certificate Registration Number is L5795.
		The Certificate is valid until August 13, 2024
		The Laboratory has been assessed and proved to be in compliance with ISO17025
		Listed by A2LA, November 01, 2017
		The Certificate Registration Number is 4429.01
		Listed by FCC, November 06, 2017
		Test Firm Registration Number: 907417
		Listed by Industry Canada, June 08, 2017
		The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng
		District, Dongguan City, Guangdong Province, China

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.249 ANSI C63.10-2013

References Test Guidance:

N/A



9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission	4	AC 120V/60Hz	Sean	See note 1
2.	Radiated Emissions	1-4	AC 120V/60Hz	Sean	See note 1
3.	Band Edge	1-3	AC 120V/60Hz	Sean	See note 1
4.	20dB Bandwidth	1-3	AC 120V/60Hz	Sean	See note 1
5.	Antenna Requirement				

Note:

- 1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: $15\sim35^{\circ}$ C, $30\sim70\%$, $86\sim106$ kPa
- 2. The test voltage AC 120V / 60Hz was come from Adapter.
- 3. Only the worst voltage was recorded in the report.





11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	
		9kHz ~ 30MHz	±5.04 dB	
2.	Radiated Emission Test	30MHz ~ 1GHz	±5.04 dB	
2.	Tradiated Efficient rest	1GHz ~ 18GHz	±5.23 dB	
		18GHz ~ 40GHz	±5.23 dB	
3.	RF Conducted Test	10Hz ~ 40GHz	±0.78 dB	
4.	Occupied Channel Bandwidth		±0.94 dB	

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The measurement uncertainly levels above are estimated and calculated according to CISPR 16-4-2.
- 3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.





12. Sample Calculations

	Conducted Emission								
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector			
0.1500	29.40	10.60	40.00	66.00	-26.00	QP			

Where,

Freq. = Emission frequency in MHz

Reading Level = Spectrum Analyzer/Receiver Reading

Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation

Measurement = Reading + Corrector Factor

Limit = Limit stated in standard

Margin = Measurement - Limit

Detector = Reading for Quasi-Peak / Average / Peak

	Radiated Spurious Emissions and Restricted Bands								
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector			
53.2800	26.68	-7.28	19.40	40.00	-20.60	QP			

Where,

Freq. = Emission frequency in MHz

Reading Level = Spectrum Analyzer/Receiver Reading

Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier

Measurement = Reading + Corrector Factor

Limit = Limit stated in standard

Over = Margin, which calculated by Measurement - Limit

Detector = Reading for Quasi-Peak / Average / Peak

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.



13. Test Items and Results

13.1 Conducted Emissions Measurement

LIMITS

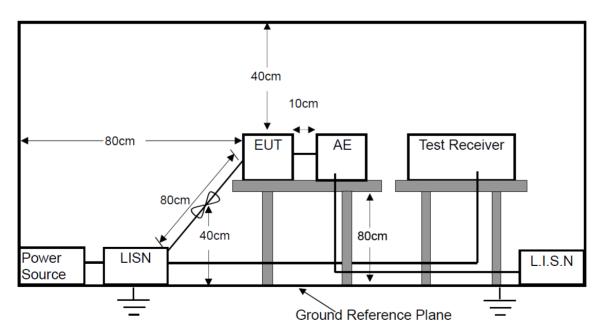
According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

Note: 1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.

- 2. The lower limit shall apply at the transition frequencies.
- 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP







TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

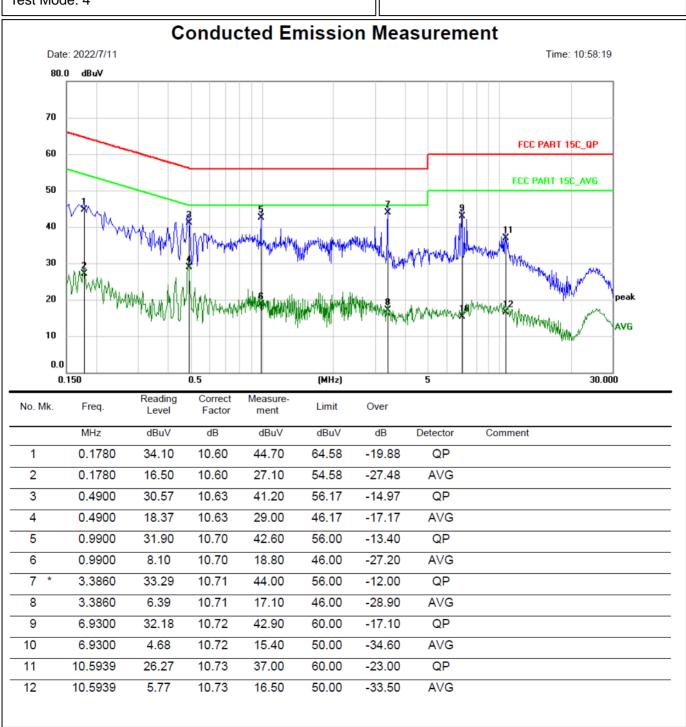
PASS

Please refer to the following pages.





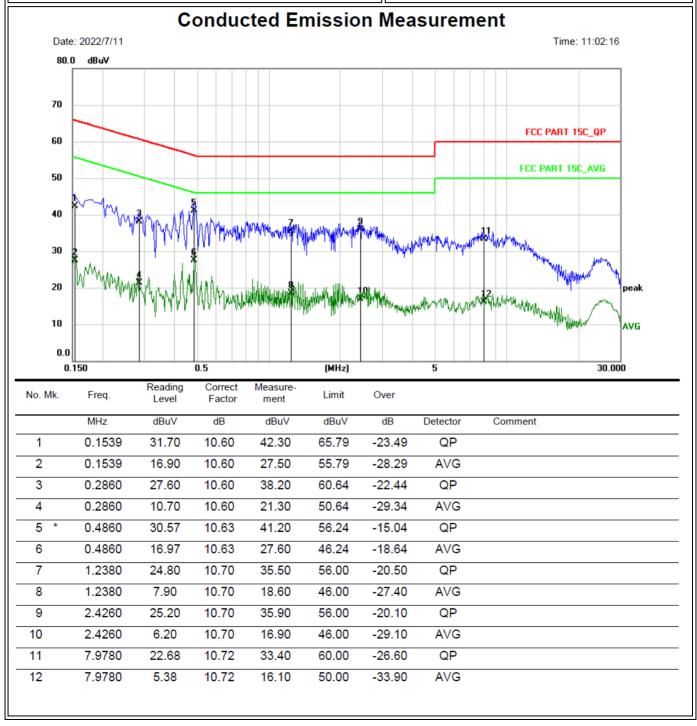
M/N: ZPP0061	Testing Voltage: AC 120V/60Hz		
Phase: L1	Detector: QP & AVG		
Test Mode: 4			







M/N: ZPP0061	Testing Voltage: AC 120V/60Hz		
Phase: N	Detector: QP & AVG		
Test Mode: 4			







13.2 Radiated Spurious Emissions and Restricted Bands Measurement

LIMITS

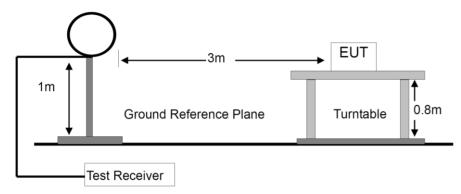
Frequency range	Distance Meters	Field Strengths Limit (15.209)			
MHz		μV/m			
0.009 ~ 0.490	300	2400/	F(kHz)		
0.490 ~ 1.705	30	24000/	F(kHz)		
1.705 ~ 30	30	3	0		
30 ~ 88	3	10	00		
88 ~ 216	3	150			
216 ~ 960	3	200			
Above 960	3	50	00		
Frequency range	Distance Meters	Field Strengths	s Limit (15.249)		
MHz		mV/m (Field strength of fundamental)	μV/m (Field strength of Harmonics)		
902 ~ 928	3	50	500		
2400 ~ 2483.5	3	50	500		
5725 ~ 5875	3	50	500		
24000 ~ 2425000	3	250	2500		

- Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
 - (5) §15.249(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

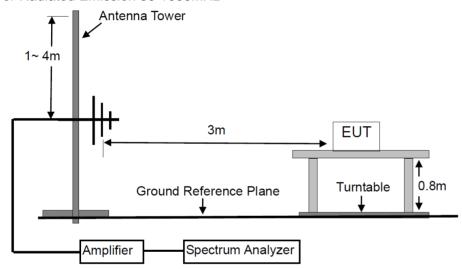


BLOCK DIAGRAM OF TEST SETUP

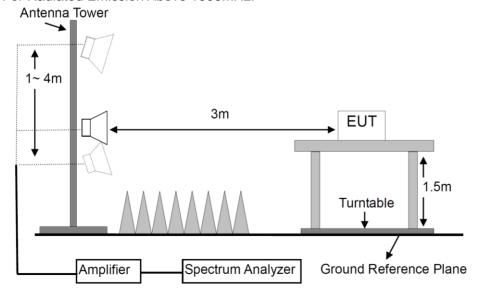
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.





TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
 - The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth		
30 to 1000	QP	120 kHz	300 kHz		
Above 1000	Peak	1 MHz	3 MHz		
Above 1000	Average	1 MHz	10 Hz		





TEST RESULTS

PASS

Please refer to the following pages.





M/N: ZPP0061	Testing Voltage: AC 120V/60Hz		
Polarization: Horizontal	Detector: QP		
Test Mode: 4	Distance: 3m		

Radiated Emission Measurement Date: 2022/7/25 Time: 15:30:11 80.0 dBuV/m 70 60 FCC_Part 15C_3m 50 Margin -6 dB 40 30 20 10 806.000 1000.000 MHz 30.0000 127.000 224.000 321.000 418.000 515.000 612.000 709.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	63.9500	37.46	-7.33	30.13	40.00	-9.87	QP		
2		96.9300	36.28	-7.94	28.34	43.50	-15.16	QP		
3		107.6000	35.29	-7.54	27.75	43.50	-15.75	QP		
4		129.9100	41.30	-10.52	30.78	43.50	-12.72	QP		
5		917.5500	25.52	6.22	31.74	46.00	-14.26	QP		
6		955.3800	24.65	6.29	30.94	46.00	-15.06	QP		

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.





M/N: ZPP0061	Testing Voltage: AC 120V/60Hz		
Polarization: Vertical	Detector: QP		
Test Mode: 4	Distance: 3m		

Radiated Emission Measurement Date: 2022/7/25 Time: 15:35:09 80.0 dBuV/m 70 60 FCC_Part 15C_3m Margin -6 dB 50 40 30 20 10 0.0 806.000 30.0000 127.000 224.000 321.000 418.000 515.000 612.000 709.000 1000.000 MHz

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		31.9400	41.01	-9.60	31.41	40.00	-8.59	QP		
'	2	*	61.0400	41.48	-7.96	33.52	40.00	-6.48	QP		
	3		125.0600	41.78	-11.23	30.55	43.50	-12.95	QP		
ľ	4		847.7100	24.85	4.76	29.61	46.00	-16.39	QP		
	5		891.3600	25.24	4.95	30.19	46.00	-15.81	QP		
ľ	6		955.3800	24.68	5.10	29.78	46.00	-16.22	QP		

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.





For Antenna 0

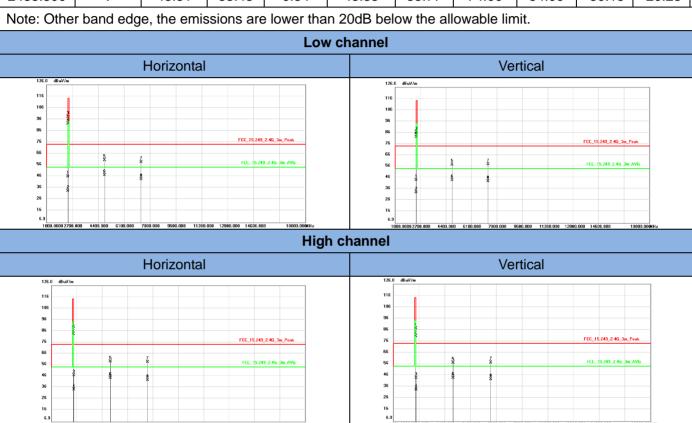
For Antenna 0 Modulation: GFSK Test Result: PASS Test frequency range: 1-25GHz										
Wodalation:	Ant.	Read			Emission Level		Limit 3m		Mar	
Freq.	Pol.	Level(d	•	Factor	(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	(H/V)	PK	AV	(dB/m)	PK	AV	PK	AV	PK	AV
	Operation Mode: TX Mode (Low)									
2406	V	86.16	82.00	0.14	86.30	82.14	114.00	94.00	-27.70	-11.86
4812	V	51.32	37.74	6.34	57.66	44.08	74.00	54.00	-16.34	-9.92
7218	V	47.60	32.49	10.46	58.06	42.95	74.00	54.00	-15.94	-11.05
2406	I	97.70	92.09	0.14	97.84	92.23	114.00	94.00	-16.16	-1.77
4812	Н	54.18	40.92	6.34	60.52	47.26	74.00	54.00	-13.48	-6.74
7218	Н	48.20	33.12	10.46	58.66	43.58	74.00	54.00	-15.34	-10.42
			Ope	ration Mo	de: TX Mo	de (Mid)				
2439	V	86.81	80.08	0.23	87.04	80.31	114.00	94.00	-26.96	-13.69
4878	V	51.36	38.03	6.59	57.95	44.62	74.00	54.00	-16.05	-9.38
7317	V	46.60	32.60	10.55	57.15	43.15	74.00	54.00	-16.85	-10.85
2439	Η	95.05	89.10	0.23	95.28	89.33	114.00	94.00	-18.72	-4.67
4878	Н	53.41	40.44	6.59	60.00	47.03	74.00	54.00	-14.00	-6.97
7317	Н	47.86	32.71	10.55	58.41	43.26	74.00	54.00	-15.59	-10.74
			Opei	ation Mod	de: TX Mo	de (High)				
2478	V	86.95	80.23	0.34	87.29	80.57	114.00	94.00	-26.71	-13.43
4956	V	50.18	37.07	6.88	57.06	43.95	74.00	54.00	-16.94	-10.05
7434	V	46.79	32.16	10.59	57.38	42.75	74.00	54.00	-16.62	-11.25
2478	Н	89.06	83.01	0.34	89.40	83.35	114.00	94.00	-24.60	-10.65
4956	Н	52.08	37.71	6.88	58.96	44.59	74.00	54.00	-15.04	-9.41
7434	Н	48.05	32.30	10.59	58.64	42.89	74.00	54.00	-15.36	-11.11

Remark: Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.





Band edge										
2400.000	Н	45.90	33.38	0.13	46.03	33.51	74.00	54.00	-27.97	-20.49
2400.000	V	43.69	32.92	0.13	43.82	33.05	74.00	54.00	-30.18	-20.95
2483.500	Н	46.67	33.91	0.34	47.01	34.25	74.00	54.00	-26.99	-19.75
2483.500	V	43.51	33.43	0.34	43.85	33.77	74.00	54.00	-30.15	-20.23







For Antenna 1

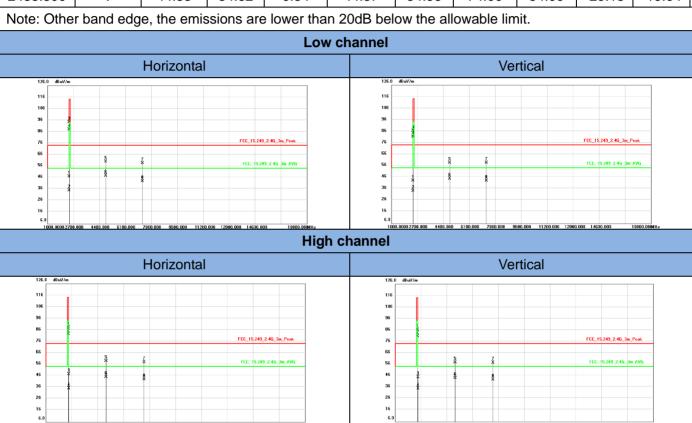
For Antenr Modulation:	Test Result: PASS			Test frequency range: 1-25GHz							
Freq. (MHz)	Ant. Read Pol. Level(d		- U	Factor (dB/m)		Emission Level (dBuV/m)		Limit 3m (dBuV/m)		Margin (dB)	
(IVII IZ)	(H/V)	PK	AV	(db/III)	PK	AV	PK	AV	PK	AV	
	Operation Mode: TX Mode (Low)										
2406	V	86.17	80.87	0.14	86.31	81.01	114.00	94.00	-27.69	-12.99	
4812	V	52.32	38.37	6.34	58.66	44.71	74.00	54.00	-15.34	-9.29	
7218	V	48.16	32.59	10.46	58.62	43.05	74.00	54.00	-15.38	-10.95	
2406	Н	94.05	87.57	0.14	94.19	87.71	114.00	94.00	-19.81	-6.29	
4812	Н	53.55	41.51	6.34	59.89	47.85	74.00	54.00	-14.11	-6.15	
7218	Н	48.16	32.68	10.46	58.62	43.14	74.00	54.00	-15.38	-10.86	
	Operation Mode: TX Mode (Mid)										
2439	V	85.32	79.53	0.23	85.55	79.76	114.00	94.00	-28.45	-14.24	
4878	V	50.87	37.57	6.59	57.46	44.16	74.00	54.00	-16.54	-9.84	
7317	V	46.73	32.46	10.55	57.28	43.01	74.00	54.00	-16.72	-10.99	
2439	Н	90.68	83.34	0.23	90.91	83.57	114.00	94.00	-23.09	-10.43	
4878	Н	52.87	40.74	6.59	59.46	47.33	74.00	54.00	-14.54	-6.67	
7317	Н	47.61	32.53	10.55	58.16	43.08	74.00	54.00	-15.84	-10.92	
			Oper	ration Mod	de: TX Mo	de (High)					
2478	V	85.83	80.15	0.34	86.17	80.49	114.00	94.00	-27.83	-13.51	
4956	V	50.76	37.00	6.88	57.64	43.88	74.00	54.00	-16.36	-10.12	
7434	V	46.90	32.22	10.59	57.49	42.81	74.00	54.00	-16.51	-11.19	
2478	Н	87.66	82.14	0.34	88.00	82.48	114.00	94.00	-26.00	-11.52	
4956	Н	52.04	38.32	6.88	58.92	45.20	74.00	54.00	-15.08	-8.80	
7434	Н	47.57	32.59	10.59	58.16	43.18	74.00	54.00	-15.84	-10.82	

Remark: Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 10dB below the permissible limits.





Band edge										
2400.000	Н	46.90	34.72	0.13	47.03	34.85	74.00	54.00	-26.97	-19.15
2400.000	V	43.05	33.92	0.13	43.18	34.05	74.00	54.00	-30.82	-19.95
2483.500	Н	47.35	34.88	0.34	47.69	35.22	74.00	54.00	-26.31	-18.78
2483.500	V	44.53	34.62	0.34	44.87	34.96	74.00	54.00	-29.13	-19.04







13.3 20dB Bandwidth Measurement

LIMITS

There is no limit.

BLOCK DIAGRAM OF TEST SETUP

EUT	Attenuator		Spectrum Analyzer
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TEST PROCEDURES

The 20dB bandwidth of the emission was contained within the frequency band designated which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered, FCC Rule 15.215(c):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

TEST RESULTS

PASS

Please refer to the following table.





For Antenna 0:

	GFSK							
Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result					
1	2406	3.758	PASS					
12	2439	3.724	PASS					
25	2478	3.548	PASS					
	2406MHz	2430	MU-7					

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For Antenna 1:

GFSK GFSK							
Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result				
1	2406	3.815	PASS				
12	2439	3.897	PASS				
25	2478	3.641	PASS				

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13.4 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 15.203:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

ANTENNA CONNECTED CONSTRUCTION

The one antenna is PCB antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0 dBi, Therefore, the antenna is considered to meet the requirement.

The other one antenna is FPC antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0 dBi, Therefore, the antenna is considered to meet the requirement.





14. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2022	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2022	2 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2022	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2022	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2022	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 23, 2022	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2022	1 Year
8.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2022	2 Year
9.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2022	1 Year
10.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2022	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2022	2 Year
12.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 13, 2022	1 Year
13.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2022	1 Year
14.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2022	1 Year
15.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
16.	Test Software	EZ	EZ_EMC NTC-3A1.1	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.