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TEST REPORT

Application No.: HKEM2111001107AT **Applicant:** Accutime Watch Corp.

Address of Applicant: 1001 Avenue of the Americas, 6th FL New York NY-10018 USA

Equipment Under Test (EUT):

EUT Name: NON-CHILD EARBUDS (WIRELESS) **Model No.:** 81386-5, 81387-3, 81379-0, 81385-7

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2ALPLEARBUDS

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2022-01-14

Date of Test: 2022-01-15 to 2022-01-28

Date of Issue: 2022-01-28

Test Result: Pass*



Law Man Kit EMC Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2022-01-28		Original	

Authorized for issue by:		
	Panner	
	Panny Leung /Project Engineer	Date: 2022-01-28
	Law	
	Law Man Kit	
	/Reviewer	Date: 2022-01-28



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2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass	

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Disturbance at AC Power Line(150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	ANSI C63.10: 2013 Section 6.2	47 CFR FCC Part 15, Subpart C 15.207	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Item no.: 81386-5, 81387-3, 81379-0, 81385-7

According to the confirmation from the applicant, the above models are identical in all electrical aspects in relating to the circuit design, PCB layout, electrical components used, internal wiring and functions. The difference is in color only.

Therefore, only the model 81386-5 was tested in this report

Abbreviation:

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application.



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4 General Information

4.1 Details of E.U.T.

	Details of E.O.T.			
	Power supply:	Charging case:		
		USB 5.0VDC		
		Headsets:		
		Lithium-Ion Battery		
		Rated capacity: 40mAh, 0.148Wh		
		Voltage: 3.7VDC		
	Test voltage:	DC 3.7V		
	Cable:	N/A		
	Antenna Gain:	1.75 dBi		
	Antenna Type:	PIFA		
	Bluetooth Version:	5.0		
	Channel Spacing:	2MHz		
	Modulation Type:	GFSK		
	Number of Channels:	40		
	Operation Frequency:	2402MHz to 2480MHz		
	Series number:	A1		
	Hardware Version:	TW1-AD6973d4-v1.0		
	Software Version:	218012_AC73D4E_TWS_XHJ_223_XHJ_EN_BT		
		Remark: Power level setting was not adjustable and fixed default through SW Version.		



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Frequency List

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2402	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2480
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Remark: 1. Testing Channels are highlighted in **bold**.

4.2 Description of Support Units

The EUT has been tested with corresponding accessories as below: Supplied by client

Description	Manufacturer	Model No.	SN/Certificate NO
FCC_Assist	N/A	Version 1.0.2.2	N/A

Supplied by SGS:

Description	Manufacturer	Model No.	SN/Certificate NO
NoteBook (EMC4)	Dell	P75F	N/A



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4.3 Modulation configure

RF software:	FCC_Assist.exe			
Modulation	Packet	Packet Type	Packet Size	Power
GFSK	Default	Default	Default	10

Remark:

1. default value was set in test software as maximum output power setting.

4.4 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Conduction emission	2.8dB (150kHz to 30MHz)
2	Radio Frequency	± 7.25 x 10 ⁻⁸
3	Duty cycle	± 0.37%
4	Occupied Bandwidth	± 3%
5	RF conducted power (30MHz-40GHz)	1.5dB
6	RF power density	1.5dB
7	Conducted Spurious emissions	1.5dB
		4.5dB (30MHz-1GHz)
8	RF Radiated power &	4.7dB (1GHz-6GHz)
0	Radiated Spurious emission test	4.7dB (6GHz-18GHz)
		5.7dB (18GHz-40GHz)
9	Temperature test	± 1 ℃
10	Humidity test	± 3%
11	Supply voltages	± 1.5%
12	Time	± 3%

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

According to decision rule based on Clause 4.2 of CISPR 16-4-2, the EUT complied with the standards specified above.



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4.5 Test Location

All tests were performed at:

SGS Hong Kong Limited

Unit 2 and 3, G/F, Block A, Po Lung Centre,

11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480

No tests were sub-contracted.

4.6 Test Facility

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

• IAS Accreditation (Lab Code: TL-817)

SGS Hong Kong Limited has met the requirements of AC89, IAS Accreditation Criteria for Testing Laboratories, and has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

The report must not be used by the client to claim product certification, approval, or endorsement by IAS, NIST, or any agency of the Federal Government.

• FCC Recognized Accredited Test Firm(CAB Registration No.: 514599)

SGS Hong Kong Limited has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: HK0015, Test Firm Registration Number: 514599.

• Industry Canada (Site Registration No.: 26103; CAB Identifier No.: HK0015)

SGS Hong Kong Limited has been recognized by Department of Innovation, Science and Economic Development (ISED) Canada as a wireless testing laboratory. The acceptance letter from the ISED is maintained in our files. CAB Identifier No: HK0015, Site Registration Number: 26103.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver 9kHz to 3.6GHz	Rohde & Schwarz	ESR3 / 102326	E231	2021/08/17	2022/08/16
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127 / 8127312	E005	2021/04/13	2022/04/12
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2 / 357881052	E028	2021/07/15	2022/07/14
EMC32 Test Software	R&S	Version 10	N/A		

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ChamPro	N/A	E229	2021/08/09	2022/08/08
Coaxial Cable	SGS	N/A	E167	2021/07/15	2022/07/14
EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESR7 / 102298	E314	2021/04/26	2022/04/25
TRILOG Super Broadb. Test Antenna, (25) 30-1000 MHz	Schwarzbeck	9168-1110	E311	2020/02/13	2022/02/12
EMC32 Test software	Rohde & Schwarz	Version 10	N/A	N/A	N/A
Signal and Spectrum Analyzer 2Hz - 26.5GHz	Rohde & Schwarz	FSW26	E296	2021/08/16	2022/08/15
Horn Antenna 1 - 18GHz	Schwarzbeck	BBHA9120D	E211	2020/03/11	2022/03/10
Horn Antenna 15 - 40GHz	Schwarzbeck	BBHA9170	E212	2020/01/29	2022/01/28
Preamplifier 33dB, 1 - 18GHz	Schwarzbeck	BBV9718	E214	2021/04/09	2022/04/08
Preamplifier 33dB, 18 - 26.5GHz	Schwarzbeck	BBV9719	E215	2020/09/21	2022/09/20
RF cable SMA to SMA 10000mm	HUBER+SUHNER	SF104- 26.5/2*11SMA 45	E207-1	2021/09/17	2022/09/16
Boresight Mast Controller	ChamPro	AM-BS-4500-E	E237	N/A	N/A
Turntable with Controller	ChamPro	EM1000	E238	N/A	N/A
Highpass Filter 7.1 -26.5GHz	SHW	HP7.1-26.5	E326	2020/09/28	2022/09/27
Highpass Filter 3 - 18GHz	Mircowave Circuits	H3G018G1	E325	2020/09/28	2022/09/27
5GHz Band Reject Filter	MICRO-TRONICS	BRC20534	E323	2020/09/28	2022/09/27
Band Reject Filter 2.4 -2.5GHz	MICRO-TRONICS	BRM50702	E324	2020/09/28	2022/09/27
Loop Antenna	Schwarzbeck	FMZB 1513	E327	2020/11/23	2022/11/22



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Radiated Spurious Emis	sions (above 1GHz)	Radiated Spurious Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	ChamPro	N/A	E229	2021/08/09	2022/08/08		
Coaxial Cable	SGS	N/A	E167	2021/07/15	2022/07/14		
EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESR7 / 102298	E314	2021/05/18	2022/05/17		
TRILOG Super Broadb. Test Antenna, (25) 30-1000 MHz	Schwarzbeck	9168-1110	E311	2020/02/13	2022/02/12		
Signal and Spectrum Analyzer 2Hz - 26.5GHz	Rohde & Schwarz	FSW26	E296	2021/08/16	2022/08/15		
Spectrum Analyzer 9kHz - 30GHz	Rohde & Schwarz	FSP30	E204	2020/03/11	2022/03/10		
Horn Antenna 1 - 18GHz	Schwarzbeck	BBHA9120D	E211	2020/01/29	2022/01/28		
Horn Antenna 15 - 40GHz	Schwarzbeck	BBHA9170	E212	2020/01/29	2022/01/28		
Preamplifier 33dB, 1 - 18GHz	Schwarzbeck	BBV9718	E214	2019/04/24	2022/04/23		
Preamplifier 33dB, 18 - 26.5GHz	Schwarzbeck	BBV9719	E215	2020/09/21	2022/09/20		
Broadband Coaxial Preamplifier typ. 30 dB, 18-40 GHz	Schwarzbeck	BBV 9721	E266	2020/08/31	2022/08/30		
Highpass Filter 7.1 -26.5GHz	SHW	HP7.1-26.5	E326	2020/09/28	2022/09/27		
Highpass Filter 3 - 18GHz	Mircowave Circuits	H3G018G1	E325	2020/09/28	2022/09/27		
RF cable SMA to SMA 10000mm	HUBER+SUHNER	SF104- 26.5/2*11SMA 45	E207-1	2021/09/17	2022/09/16		
Boresight Mast Controller	ChamPro	AM-BS-4500-E	E237	N/A	N/A		
Turntable with Controller	ChamPro	EM1000	E238	N/A	N/A		



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6dB Bandwidth, Conducted Peak Output Power, Power Spectrum Density, Conducted Band Edges Measurement,					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
SMBV100A VECTOR SIGNAL GENERATOR	Rohde & Schwarz	SMBV100A	E234	2021/08/16	2022/08/15
FSV40 SIGNAL ANALYZER 40GHz	Rohde & Schwarz	FSV40	E235	2021/08/16	2022/08/15
Wireless Conn. Tester (CMW)	Rohde & Schwarz	CMW270	E240	2021/08/16	2022/08/15
OSP	Rohde & Schwarz	OSP-B157W8	E242	2021/08/16	2022/08/15
Cable	Rohde & Schwarz	J12J103539- 00-2	E239	2021/07/15	2022/07/14
WMS32 Test Software	R&S	Version 10	N/A		

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital temperature & humidity data logger	SATO	SK-L200TH II	E232	2021/08/16	2022/08/15
Electronic Digital Thermometer with Hygrometer	nil	2074/2075	E159	2021/08/16	2022/08/15
Barometer with digital thermometer	SATO	7612-00	E218	2021/03/29	2022/03/28
Conditional Chamber	Zhong Zhi Testing Instruments	CZ-E-608D	E216	2021/08/17	2022/08/16



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) RSS-Gen Section 6.8

6.1.2 Conclusion

Standard Requirement:

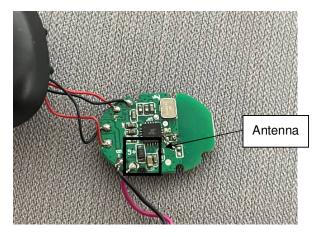
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.75dBi.



Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207, RSS-Gen Section 8.8

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Eroguanay of amission/MHz)	Conducted limit(dBµV)		
Frequency of emission(MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	
*Decreases with the logarithm of the t	requency.		

7.1.1 E.U.T. Operation

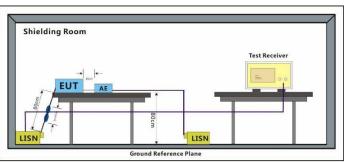
Operating Environment:

Temperature: 22.5 °C Humidity: 51.2 % RH

Test mode a :TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

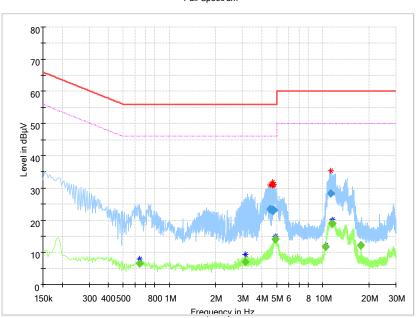
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:a; Line: Live Line

Full Spectrum



Frequency	QuasiPeak	Average	Limit	Margin	Corr.	5 "
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dB)	Result
0.642000		6.5	46.0	39.5	10.6	Pass
3.130000		7.1	46.0	38.9	10.1	Pass
4.538000	23.3		56.0	32.7	10.2	Pass
4.682000	23.1	-	56.0	32.9	10.2	Pass
4.714000	22.9		56.0	33.1	10.2	Pass
4.734000	22.9		56.0	33.1	10.2	Pass
4.770000	23.1		56.0	32.9	10.2	Pass
4.902000		14.0	46.0	32.0	10.2	Pass
10.390000		11.7	50.0	38.3	10.3	Pass
11.330000	28.3		60.0	31.7	10.3	Pass
11.594000		18.9	50.0	31.1	10.3	Pass
17.778000		12.1	50.0	37.9	10.5	Pass

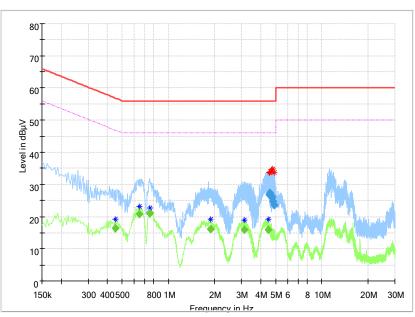


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Mode:a;

Line: Neutral Line





Frequency	QuasiPeak	Average	Limit	Margin	Corr.	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dB)	
0.454000		16.5	46.8	30.3	10.8	Pass
0.646000		20.8	46.0	25.2	10.6	Pass
0.754000		21.1	46.0	24.9	10.5	Pass
1.886000		16.2	46.0	29.8	10.2	Pass
3.126000		15.9	46.0	30.1	10.1	Pass
4.462000		15.9	46.0	30.1	10.2	Pass
4.542000	26.9		56.0	29.1	10.2	Pass
4.566000	27.4		56.0	28.6	10.2	Pass
4.674000	26.6		56.0	29.5	10.2	Pass
4.734000	26.1		56.0	29.9	10.2	Pass
4.822000	24.9		56.0	31.1	10.2	Pass
4.894000	23.7		56.0	32.3	10.2	Pass



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7.2 99% Bandwidth

Test Requirement RSS-Gen Section 6.6
Test Method: ANSI C63.10 Section 6.9.3

7.2.1 E.U.T. Operation

Operating Environment:

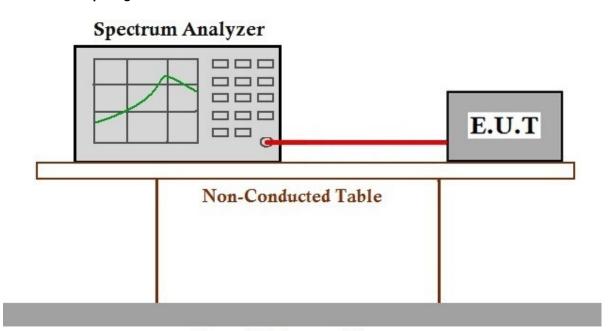
Temperature: 20.0 °C Humidity: 48.0 % RH

Test mode b: TX_non-Hop mode_Keep the EUT in continuously transmitting mode with

modulation. All modes have been tested and only the data of worst case is

recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data



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7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10 (2013) Section 11.8.1

7.3.1 E.U.T. Operation

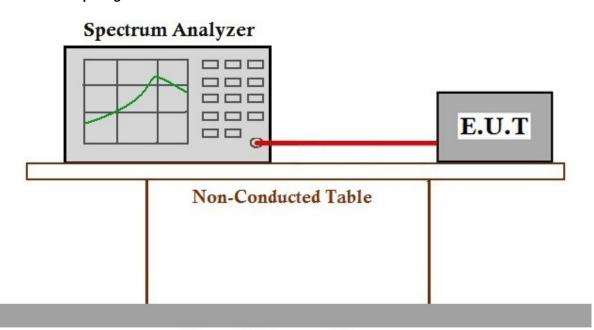
Operating Environment:

Temperature: 22.5 °C Humidity: 51.3 % RH

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data



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7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15 Subpart C 15.247:2019(b)(1) & 15.247(b)(3),

RSS-247 Section 5.4(b)

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

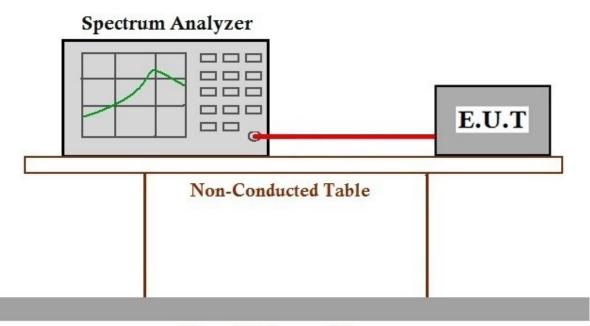
Operating Environment:

Temperature: 22.5 °C Humidity: 51.9 % RH :

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data



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7.5 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e), RSS-247 Clause 5.2(b)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.5.1 E.U.T. Operation

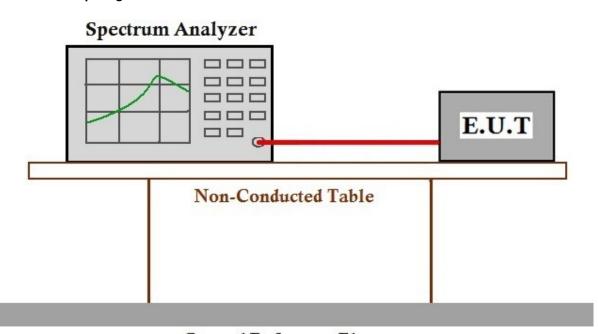
Operating Environment:

Temperature: 22.5 °C Humidity: 51.2 % RH

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data



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7.6 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247:2019(d), RSS-247 Section 5.5

Test Method: ANSI C63.10 (2013) Section7.8.6

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

7.6.1 E.U.T. Operation

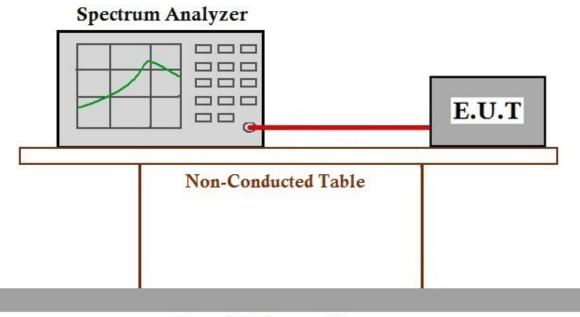
Operating Environment:

Temperature: 22.5 °C Humidity: 51.9 % RH

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data



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7.7 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

 $\$15.205(a), \, \text{must also comply with the radiated emission limits specified in}$

§15.209(a) (see §15.205(c)

FCC Part15 C Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

RSS-Gen Section 8.10 Restricted bands of operation.

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

(a) The transmit frequency, including fundamental components of modulation, of licence-exempt radio



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apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, *Emergency Position Indicating Radio Beacons (EPIRB)*, *Emergency Locator Transmitters (ELT)*, *Personal Locator Beacons (PLB)*, and *Maritime Survivor Locator Devices (MSLD)*. (b) Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.

(c) Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands* MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	* Certain frequency bands
8.37625 - 8.38675	1718.8 - 1722.2	Iisted in table 7 and in bands above 38.6 GHz are
8.41425 - 8.41475	2200 - 2300	designated for licence-exempt
12.29 - 12.293	2310 - 2390	applications. These frequency
12.51975 - 12.52025	2483.5 - 2500	bands and the requirements
12.57675 - 12.57725	2655 - 2900	that apply to related devices
13.36 - 13.41	3260 - 3267	are set out in the 200 and 300
16.42 - 16.423	3332 - 3339	series of RSSs.
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		



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7.7.1 E.U.T. Operation

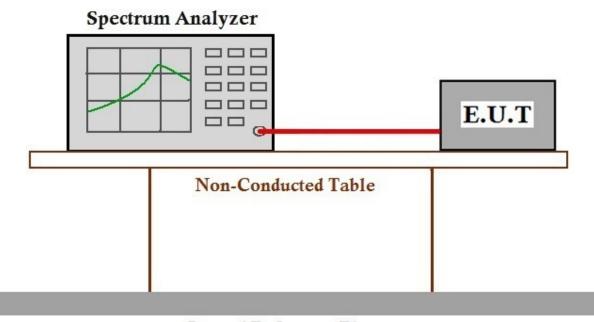
Operating Environment:

Temperature: 22.5 °C Humidity: 51.9 % RH

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.7.2 Test Setup Diagram



Ground Reference Plane

7.7.3 Measurement Procedure and Data



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7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247:2019(d), RSS-247 Section 5.5

Test Method: ANSI C63.10 (2013) Section 7.8.8

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is

not required.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 51.2 % RH

Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20).

7.8.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.8.3 Measurement Procedure and Data



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7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209, Section 3.3

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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



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7.9.1 E.U.T. Operation

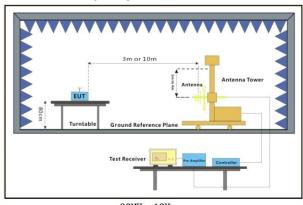
Operating Environment:

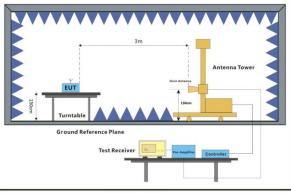
Temperature: 22.5 °C Humidity: 51.4 % RH

Test mode a:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

7.9.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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Worse test result as shown below:

Frequency	Antenna	Emission Le	vel (dBµV/m)	Limit (d	IBμV/m)	Result
(MHz)	Polarization	Peak	Average	Peak	Average	nesuit
2390.000	Н	42.3	30.3	74.0	54.0	Pass
2483.500	Н	48.2	31.5	74.0	54.0	Pass
2390.000	V	42.1	28.8	74.0	54.0	Pass
2483.500	V	45.1	29.1	74.0	54.0	Pass



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7.10 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209, Section 3.3 & RSS-Gen

Section 8.9

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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

Table 5 - General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength (μ V/m at 3 m)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Table 6 - General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H- Field) (μ A/m)	Measurement distance (m)
9 - 490 kHz 1	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



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7.10.1 E.U.T. Operation

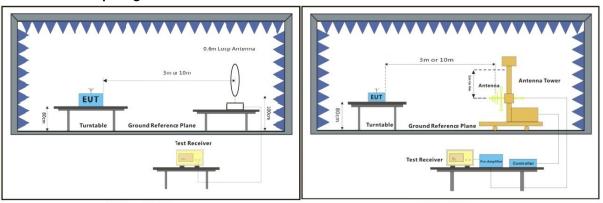
Operating Environment:

Temperature: 22.5 °C Humidity: 51.0 % RH

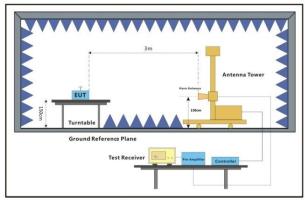
Test mode a:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation -

7.10.2 Test Setup Diagram



Below 30MHz 30MHz-1GHz



Above 1GHz



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7.10.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

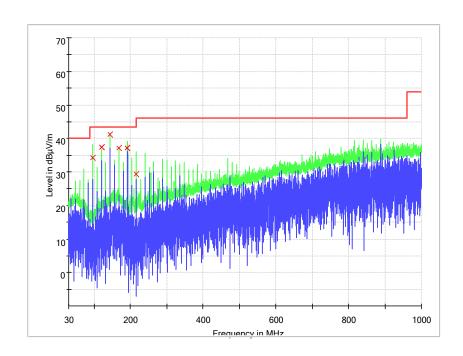
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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Radiated emission below 1GHz

Mode:a; Polarization:Horizontal; Modulation:GFSK;

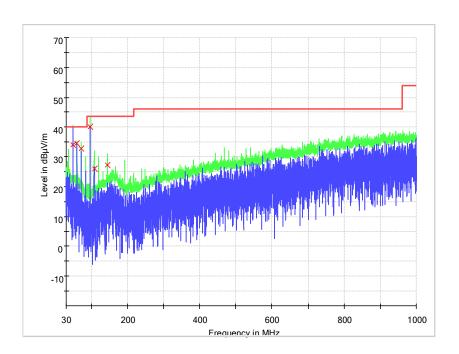


Frequency	QuasiPeak	D.J	Corr.	Margin	Limit	Danie
(MHz)	(dBµV/m)	Pol.	(dB/m)	(dB)	(dBµV/m)	Result
95.960000	34.2	Н	8.7	9.3	43.5	Pass
120.002143	37.5	Н	12.2	6.0	43.5	Pass
144.044286	41.2	н	13.8	2.3	43.5	Pass
168.017143	37.1	Н	14.2	6.4	43.5	Pass
191.990000	37.2	Н	11.1	6.3	43.5	Pass
215.962857	29.4	Н	11.2	14.1	43.5	Pass



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Mode:a; Polarization:Vertical; Modulation:GFSK;



Frequency (MHz)	QuasiPeak (dBμV/m)	Pol.	Corr. (dB/m)	Margin (dB)	Limit (dBμV/m)	Result
47.945000	34.1	V	14.2	5.9	40.0	Pass
60.000714	34.5	٧	13.6	5.5	40.0	Pass
71.987143	32.7	V	11.9	7.3	40.0	Pass
96.029286	40.2	٧	8.7	3.3	43.5	Pass
108.015714	25.9	٧	10.6	17.6	43.5	Pass
143.975000	27.2	V	13.8	16.3	43.5	Pass



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Above 1GHz Channel:Low

Frequency	Antenna	Emission Level (dBµV/m)		Limit (dBμV/m)		Result
(MHz)	Polarization	Peak	Average	Peak	Average	
1227.250	Н	37.9	24.0	74.0	54.0	PASS
1932.250	V	42.8	26.1	74.0	54.0	PASS
3096.625	V	47.3	33.0	74.0	54.0	PASS
4807.000	Н	62.7	37.4	74.0	54.0	PASS
6291.500	Н	52.8	38.7	74.0	54.0	PASS
7460.500	Н	58.2	44.6	74.0	54.0	PASS

Channel:Middle

Frequency	Antenna	Emission Level (dBμV/m)		Limit (dBμV/m)		Result
(MHz)	Polarization	Peak	Average	Peak	Average	
1924.750000	Н	42.1	26.2	74.0	54.0	PASS
3682.375000	V	49.0	33.5	74.0	54.0	PASS
4880.500000	Н	53.0	39.5	74.0	54.0	PASS
4880.000000	V	55.2	40.6	74.0	54.0	PASS
7930.000000	V	59.1	45.2	74.0	54.0	PASS
12143.500000	Н	65.5	51.7	74.0	54.0	PASS

Channel: High

Frequency	Antenna	Emission Level (dBμV/m)		Limit (dBμV/m)		Result
(MHz)	Polarization	Peak	Average	Peak	Average	
1930.750000	Н	42.5	26.3	74.0	54.0	PASS
3099.625000	Н	46.8	33.0	74.0	54.0	PASS
4575.500000	V	50.1	36.0	74.0	54.0	PASS
4960.500000	Н	55.6	40.3	74.0	54.0	PASS
7887.000000	V	59.5	45.4	74.0	54.0	PASS
9283.500000	V	60.0	46.2	74.0	54.0	PASS



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8 Photographs

8.1 EUT Constructional Details (EUT Photos)

Refer to the appendices setup, external and internal photos.



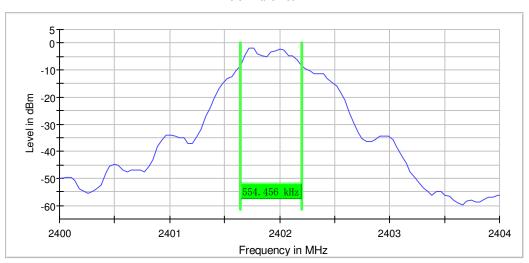
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9 Appendix

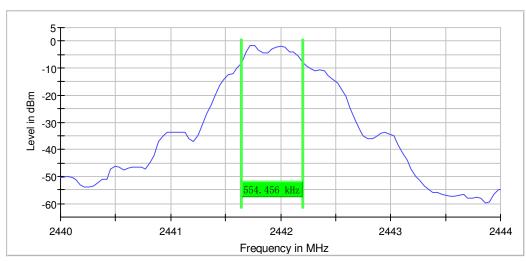
9.1 Minimum Emission Bandwidth 6 dB

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.554456	0.500000		2401.643564	2402.198020
2442.000000	0.554456	0.500000		2441.643564	2442.198020
2480.000000	0.554456	0.500000		2479.643564	2480.198020

6 dB Bandwidth



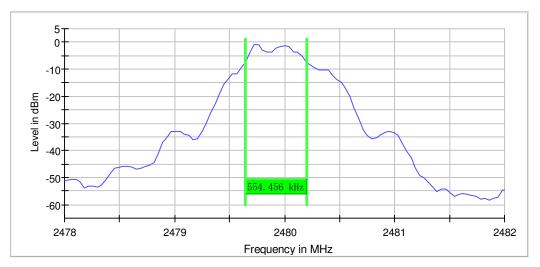
6 dB Bandwidth





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Measurement

Setting	Instrument Value	Target Value	
Span	4.000 MHz	4.000 MHz	
RBW	100.000 kHz	~ 100.000 kHz	
VBW	300.000 kHz	~ 300.000 kHz	
SweepPoints	101	~ 80	
Sweeptime	18.938 us	AUTO	
Reference Level	-10.000 dBm	-10.000 dBm	
Attenuation	10.000 dB	AUTO	
Detector	MaxPeak	MaxPeak	
SweepCount	100	100	
Filter	3 dB	3 dB	
Trace Mode	Max Hold	Max Hold	
Sweeptype	FFT	AUTO	
Preamp	off	off	
Stablemode	Trace	Trace	
Stablevalue	0.50 dB	0.50 dB	
Run	10 / max. 150	max. 150	
Stable	5 / 5	5	
Max Stable Difference	0.08 dB	0.50 dB	

Remark: Cable loss 0.8dB was considered and set in system configuration.



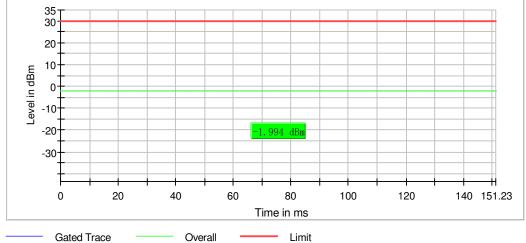
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9.2 Peak conducted output power

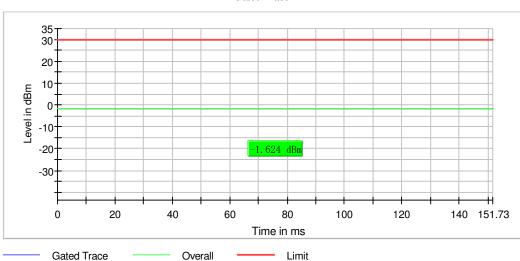
DUT Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)	Result
2402.000000	-2.0	30.0	PASS
2442.000000	-1.6	30.0	PASS
2480.000000	-1.0	30.0	PASS

Gated Trace

Remark: Antenna gain is 1.75 dBi



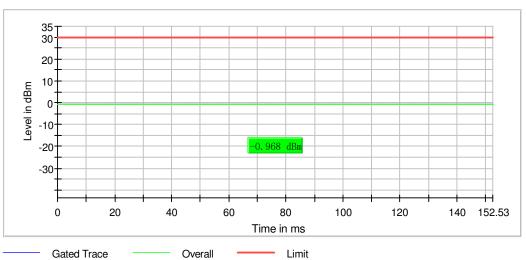






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Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	>= 752.477 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 101
Sweeptime	2.000 s	2.000 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	10	10
Filter	Channel	Channel
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

Remark: Cable loss 0.8dB was considered and set in system configuration.

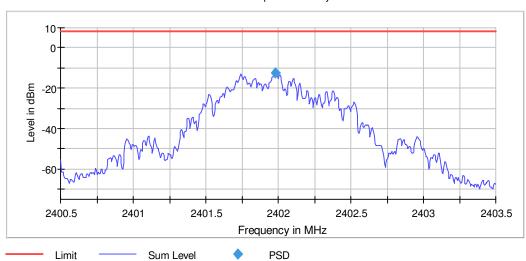


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9.3 Power Spectrum Density

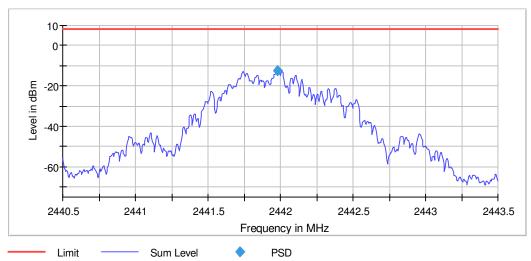
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.977500	-12.626	8.0	PASS

Peak Power Spectral Density



DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2442.000000	2441.982500	-12.249	8.0	PASS

Peak Power Spectral Density

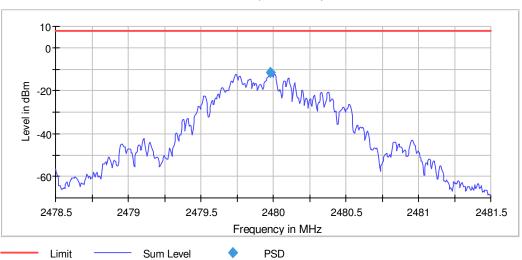




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DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.982500	-11.612	8.0	PASS

Peak Power Spectral Density



Measurement

Measurement			
Setting	Instrument Value	Target Value	
Span	3.000 MHz	3.000 MHz	
RBW	10.000 kHz	<= 10.000 kHz	
VBW	30.000 kHz	>= 30.000 kHz	
SweepPoints	600	~ 600	
Sweeptime	12.000 ms	12.000 ms	
Reference Level	-10.000 dBm	-10.000 dBm	
Attenuation	10.000 dB	AUTO	
Detector	RMS	RMS	
SweepCount	1	1	
Filter	3 dB	3 dB	
Trace Mode	Max Hold	Max Hold	
Sweeptype	Sweep	Sweep	
Preamp	off	off	
Stablemode	Trace	Trace	
Stablevalue	0.50 dB	0.50 dB	
Run	27 / max. 150	max. 150	
Stable	3/3	3	
Max Stable Difference	0.26 dB	0.50 dB	

Remark: Cable loss 0.8dB was considered and set in system configuration.



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9.4 Conducted Band Edge Measurement

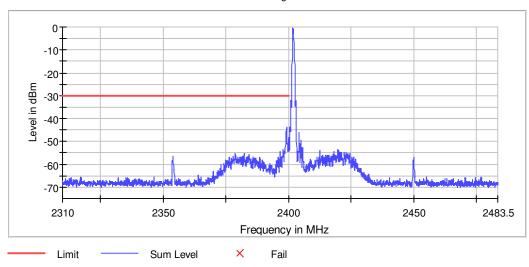
Inband Peak

Frequency (MHz)	Level (dBm)
2401.925000	-0.2
2479.975000	0.7

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.275000	-43.5	13.3	-30.2	PASS
2483.625000	-48.9	19.6	-29.3	PASS

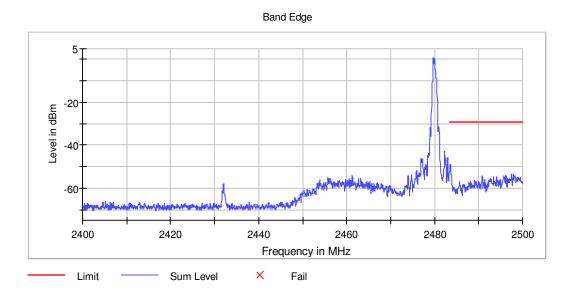
Remark: Limit = Inband peak - 30dB

Band Edge





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Measurement 1

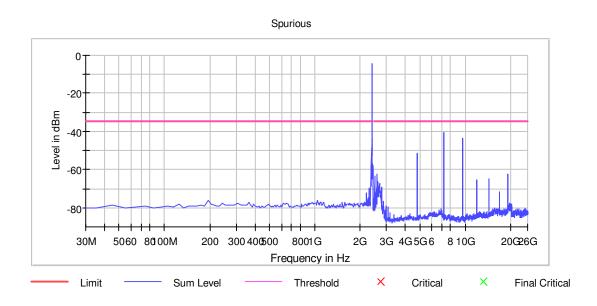
Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	1.670 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.50 dB

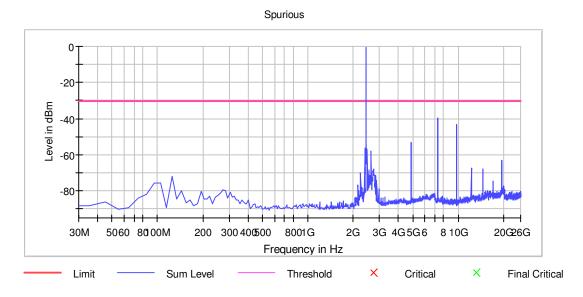
Remark: Cable loss 0.8dB was considered and set in system configuration.



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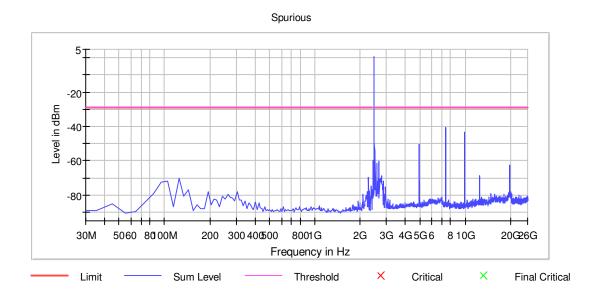
9.5 Conducted Spurious Emission







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Remark: Limit = Inband peak - 30dB

Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
Sweeptime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	24 / max. 40	max. 40
Stable	3/3	3
Max Stable Difference	0.00 dB	0.50 dB

Remark: Cable loss 0.8dB was considered and set in system configuration.

- End of the Report -