





Test Report FCC Part15 Subpart C

Product Name: Receiver Module

Model No. : SR24NP

FCC ID : 2ACS5-SR24NP

IC : 11554B-SR24NP

Applicant: Yuneec Technology Co., Limited

Address : 2/F Man Shung Industrial Building, 7 Lai Yip Street,

Kwun Tong, Hong Kong

Date of Receipt: Mar. 29, 2016

Test Date : Mar. 29, 2016~ Apr. 21, 2016

Issued Date : Jun. 02, 2016

Report No. : 1632107R-RF-US-P06V01

Report Version: V1.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date: Jun. 02, 2016

Report No. : 1632107R-RF-US-P06V01



Product Name : Receiver Module

Applicant : Yuneec Technology Co., Limited

Address : 2/F Man Shung Industrial Building, 7 Lai Yip Street, Kwun

Tong, Hong Kong

Manufacturer : Yuneec International (China) Co., Ltd.

Address : No.388 East Zhengwei Road, Jinxi Town, Kunshan, Jiangsu

215324, China

Model No. : SR24NP

FCC ID : 2ACS5-SR24NP IC : 11554B-SR24NP

Brand Name : YUNEEC EUT Voltage : DC 3.3V

Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2015

ANSI C63.4:2014; ANSI C63.10:2013; KDB 558074 D01v03r04

Industry Canada RSS-Gen Issue 4 / RSS-247 Issue 1

Test Result : Complied

Performed Location : Quietek Corporation - Suzhou EMC Laboratory

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Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C. : BSMI, NCC, TAF

USA : FCC
Japan : VCCI
China : CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://www.quietek.com/english/about/certificates.aspx?bval=5
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/index en.aspx

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1632107R-RF-US-P06V01	V1.0	Initial Issued Report	Apr. 26, 2016
1632107R-RF-US-P06V01	V1.1	Modified the power supply	Jun. 02, 2016
		mode at page 18.	



1. General Information

1.1. EUT Description

i.i. Eoi description					
Product Name	Receiver Module				
Model No.	SR24NP				
Working Voltage	DC 3.3V				
Zigbee					
Frequency Range	2405 ~ 2475MHz				
Channel Number	15				
Type of Modulation	DSSS-OQPSK				
Data Rate	250kbps				
Antenna Type	Reference to Antenna List				

1.2. Working Frequency of Each Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:									
Channel Frequency Channel Frequency Channel Frequency Channel Frequency									
11	2405 MHz	12	2410 MHz	13	2415 MHz	14	2420 MHz		
15	2425 MHz	16	2430 MHz	17	2435 MHz	18	2440 MHz		
19	2445 MHz	20	2450 MHz	21	2455 MHz	22	2460 MHz		
23	2465 MHz	24	2470 MHz	25	2475 MHz	N/A	N/A		

1.3. Antenna information

Model No.	N/A						
Antenna manufacturer	N//A						
Antenna Delivery		1*TX+1*R	X				
Antenna technology	\boxtimes	SISO					
		МІМО		Basic			
				CDD			
				Beam-forming			
Antenna Type		⊠ External ⊠ Dipole					
		Internal		PIFA			
				PCB			
				Ceramic Chip Antenna			
				Metal plate type F antenna			
Antenna Gain	1dBi						

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1.4. Mode of Operation

Test Mode	
Mode 1: Transmit-1Mbps(GFSK_BLE)	

1.5. Tested System Details

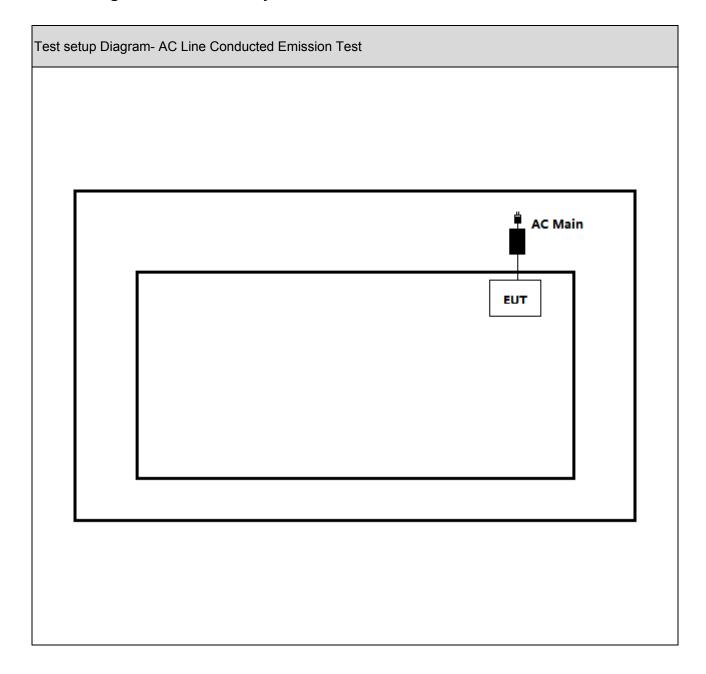
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	N/A	N/A	N/A	N/A	N/A

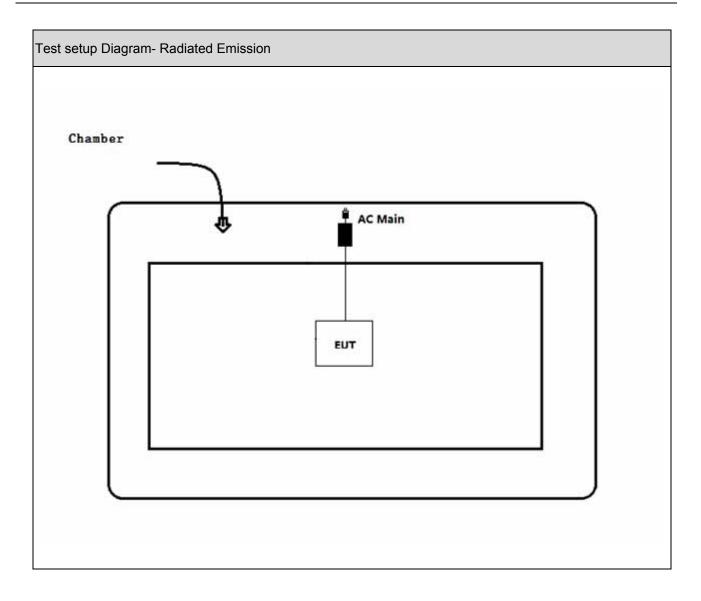
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1.6. Configuration of Tested System









1.7. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.

Run the RF test software, and set the test mode and channel, then press OK to start continue receive.

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2. Technical Test

2.1. Summary of Test Result

Performed Test Item	Normative References	Worst case Limit mode		Result
AC Power Line	FCC CFR Title 47 Part 15 Subpart	Mode 1	FCC 15.207	PASS
Conducted Emission	C: 2015 Section 15.207			
Emissions in	FCC CFR Title 47 Part 15 Subpart	Mode 1	FCC 15.209	PASS
restricted frequency	C: 2015 Section 15.209			
bands				
Emissions in	FCC CFR Title 47 Part 15 Subpart	Mode 1	30dBc	PASS
non-restricted	C: 2015 Section 15.247(d)			
frequency bands				
Radiated Emission	FCC CFR Title 47 Part 15 Subpart	Mode 1	FCC 15.209	PASS
Band Edge	C: 2015 15.247(d)			
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart	Mode 1	500kHz	PASS
	C: 2015 Section 15.247(a)(2)			
Fundamental	FCC CFR Title 47 Part 15 Subpart	Mode 1	30dBm	PASS
emission output	C: 2015 Section 15.247(b)(3)			
power				
Power Spectral	FCC CFR Title 47 Part 15 Subpart	Mode 1	8dBm/3kHz	PASS
Density	C: 2015 Section 15.247(e)			

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Performed Test Item	Normative References	Worse case mode	Limit	Result
AC Power Line	RSS-Gen Issue 4 November 2014	802.11b	RSS-Gen	PASS
Conducted Emission	Section 8.8			
Emissions in restricted	RSS-247 Issue 1 May 2015	802.11b	RSS-247	PASS
frequency bands	Section 5.5			
Emissions in	RSS-247 Issue 1 May 2015	802.11b	30dBc	PASS
non-restricted frequency	Section 5.5			
bands				
Radiated Emission Band	RSS-Gen Issue 4 November 2014	802.11g	RSS-Gen	PASS
Edge	Section 8.10			
Occupied Bandwidth	RSS-Gen Issue 4 November 2014	802.11b	500kHz	PASS
	Section 6.6			
	RSS-247 Issue 1 May 2015			
	Section 5.2			
Fundamental emission	RSS-247 Issue 1 May 2015	802.11n(20MHz)	30dBm	PASS
output power	Section 5.4			
Power Spectral Density	RSS-247 Issue 1 May 2015	802.11b	8dBm/3kHz	PASS
	Section 5.2			



2.2. Test Frequency configuration:

Zigbee Working Frequency of Each Channel:									
Channel Frequency Channel Frequency Channel Frequency Channel Frequency									
01	2405 MHz	02	2410 MHz	03	2415 MHz	04	2420 MHz		
05	2425 MHz	06	2430 MHz	07	2435 MHz	80	2440 MHz		
09	2445 MHz	10	2450 MHz	11	2455 MHz	12	2460 MHz		
13	2465 MHz	14	2470 MHz	15	2475 MHz	N/A	N/A		

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2.3. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.4. Measurement Uncertainty

Test Items	Uncertainty			
AC Power Line Conducted Emission	± 2.02dB			
Radiated Emission	Below 1GHz ± 3.8 dB			
	Above 1GHz ± 3.9 dB			
RF Antenna Port Conducted Emission	± 1.27dB			
Radiated Emission Band Edge	± 3.9dB			
Occupied Bandwidth	± 1kHz			
Power Spectral Density	± 1.27dB			



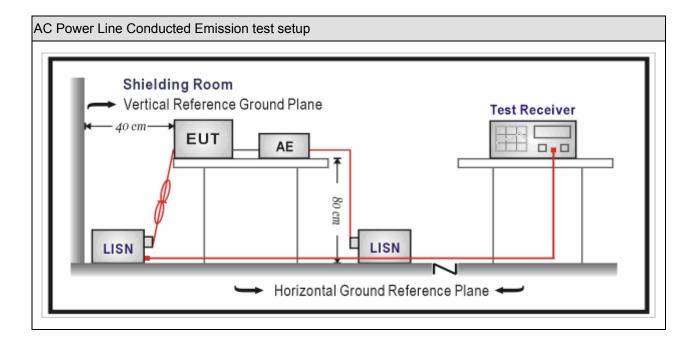
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1								
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date			
EMI Test Receiver	R&S	ESCI	100726	2016.03.05	2017.03.04			
Two-Line V-Network	R&S	ENV216	100043	2015.03.29	2017.03.28			
Two-Line V-Network	R&S	ENV216	100044	2015.09.17	2016.09.16			
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2016.03.02	2017.03.01			
50ohm Termination	SHX	TF2	07081401	2015.09.17	2016.09.16			
Temperature/Humidity	zhichen	ZC1-2	TR1-TH	2016.01.04	2017.01.03			
Meter	ZIIICHEH	201-2	IK1-11	2010.01.04	2017.01.03			

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup





3.3. Limit

Frequency of Emission	Conducted Limit			
(MHz)	Quasi-peak (dB μ V)	Average(dB μ V)		
0.15-0.5	66 to 56	56 to 46		
0.5-5	56	46		
5-30	60	50		

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

Test N	Test Method							
	References Rule	Chapter	Item					
\boxtimes	ANSI C63.10-2013		Standard test method for ac power-line conducted emissions from unlicensed wireless devices					
	ANSI C63.4-2014	7	AC power-line conducted emission measurements					

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3.5. Test Result

The EUT is powered by DC supply, so this test item is not applicable.

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4. Emissions in restricted frequency bands

4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2								
Instrument Manufacturer Type No. Serial No. Cal. Date Cal. D								
EMI Test Receiver	R&S	ESCI	100573	2016.03.05	2017.03.04			
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17			
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15			
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01			
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03			

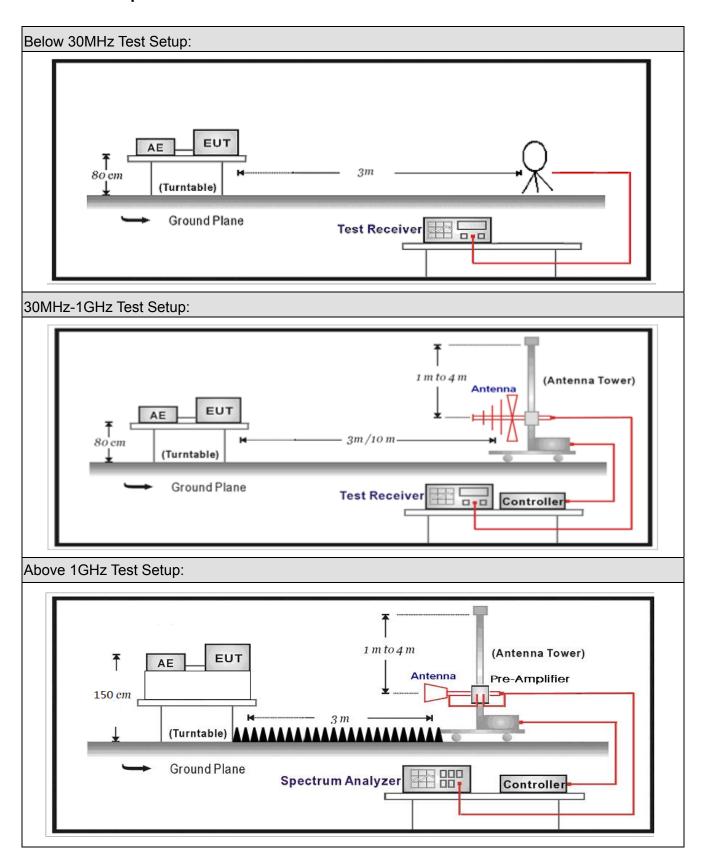
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Radiated Emission(Above 1GHz) / AC-5						
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date	
Spectrum Analyzer	Agilent	E4446A	1446A MY45300103 ₂₀		2017.01.03	
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05	
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05	
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21	
Broad-Band Horn						
Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24	
		SUCOFLEX				
Coaxial Cable	Huber+Suhner	106	AC5-C1	2016.03.02	2017.03.01	
		SUCOFLEX				
Coaxial Cable	Huber+Suhner	106	AC5-C2	2016.03.02	2017.03.01	
		SUCOFLEX				
Coaxial Cable	Huber+Suhner	102	AC5-C3	2016.03.02	2017.03.01	
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09	
Temperature/Humidity						
Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03	
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the						

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.



4.2. Test Setup





4.3. Limit

Restricted Bands of operation							
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)				
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15				
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	2690 – 2900	22.01 – 23.12				
8.81425 – 8.81475	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							



Restricted Band Emissions Limit								
Frequency (MHz)	,							
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)					
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)					
1.705 - 30	30	29.5	30 _(Note 1)					
30 - 88	100	40	3 _(Note 2)					
88 - 216	150	43.5	3 _(Note 2)					
216 - 960	200	46	3 _(Note 2)					
Above 960	500	54	3 _(Note 2)					

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).



4.4. Test Procedure

Test	Metho	od				
	Refer	ences	Rule)	Chapter	Description
	ANSI	C63.	10		11.11	Emissions in non-restricted frequency bands
		ANSI	NSI C63.10		11.11.2	Reference level measurement
		ANSI	C63	.10	11.11.3	Emission level measurement
\boxtimes	ANSI	C63.	10		11.12	Emissions in restricted frequency bands
	\boxtimes	ANSI	C63	.10	11.12.1	Radiated emission measurements
	\boxtimes	ANSI C63.10		11.12.2.7	Radiated spurious emission test	
				6.4	Radiated emissions from unlicensed wireless	
					devices below 30 MHz	
			6.5	Radiated emissions from unlicensed wireless		
					devices in the frequency range	
					of 30 MHz to 1000 MHz	
				6.6	Radiated emissions from unlicensed wireless	
						devices above 1 GHz
		ANSI	C63	.10	11.12.2	Antenna-port conducted measurements
		\boxtimes	ANS	I C63.10	11.12.2.3	Quasi-peak measurement procedure
		\boxtimes	ANS	I C63.10	11.12.2.4	Peak power measurement procedure
		\boxtimes	ANS	I C63.10	11.12.2.5	Average power measurement procedures
				ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission
						at full power
	☐ ANSI C63.10		11.12.2.5.2	Trace averaging across ON and OFF times of the		
				EUT transmissions followed by		
						duty cycle correction
			\boxtimes	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times
						of the EUT transmissions
						with max hold



4.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands						
Davisa Catanani		Fixed position us	е				
Device Category		Mobile position u	se				
Test mode	Mode	e 1					
		Radiated					
		X Axis	Y	Axis	Z Axis		
		Worst Axis	Worst Axis		Worst Axis 🖂		
		Conducted	1				
	\boxtimes	☐ Chain 1					
Test method		•					
		Chain 1		(Chain 2		
		• •					
		Worst Chain		Wors	st Chain 🗌		
		Chain 1	Cł	nain 2	Chain 3		
			•	• •			
		Worst Chain	Worst	Chain 🗌	Worst Chain		



4.6. Test Result

Product Name	:	Receiver Module	Power		DC 3.3V
Test Mode	• •	Mode 1	Test Site	• •	AC-5

Chain	СН	Antenna	Frequency	Reading	Factor	Measure	Limit	Margin	Detector
			(MHz)	Level	(dB)	Level	$(dB \mu V/m)$	(dB)	
				(dB µ V/m)		(dB µ V/m)			
		Н	4810.0	34.9	8.0	42.9	54(note3)	-11.1	PK
		V	4810.0	35.5	8.0	43.5	54(note3)	-10.5	PK
	11	Н	7215.0	32.0	12.8	44.9	54(note3)	-9.1	PK
	11	V	7215.0	32.3	12.8	45.1	54(note3)	-8.9	PK
		Н	9620.0	29.8	16.3	46.1	54(note3)	-7.9	PK
		V	9620.0	30.2	16.3	46.4	54(note3)	-7.6	PK
	18	Н	4880.0	35.3	8.2	43.5	54(note3)	-10.5	PK
		V	4880.0	37.5	8.2	45.6	54(note3)	-8.4	PK
Ant O		Н	7320.0	32.3	12.9	45.1	54(note3)	-8.9	PK
Ant 0		V	7320.0	32.6	12.9	45.5	54(note3)	-8.5	PK
		Н	9760.0	30.6	16.1	46.6	54(note3)	-7.4	PK
		V	9760.0	30.3	16.1	46.3	54(note3)	-7.7	PK
		Н	4950.0	37.1	8.6	45.7	54(note3)	-8.3	PK
		V	4950.0	38.7	8.6	47.4	54(note3)	-6.6	PK
	25	Н	7425.0	32.4	13.3	45.6	54(note3)	-8.4	PK
	25	V	7425.0	33.9	13.3	47.2	54(note3)	-6.8	PK
		Н	9900.0	30.8	15.9	46.8	54(note3)	-7.2	PK
		V	9900.0	30.8	15.9	46.7	54(note3)	-7.3	PK

Note: 1. Measure Level = Reading Level + Factor.

Note: 2. The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note: 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Note: 4. The RBW set up , see Clause 6.6..

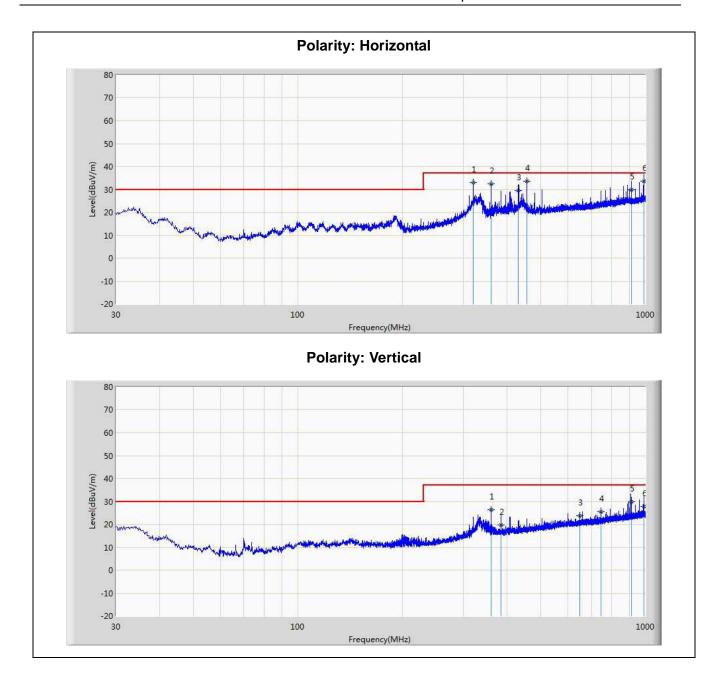


The worst case of Radiated Emission below 1GHz:

Chain	СН	Antenna	Frequency	Reading	Factor	Measure	Limit	Margin	Detector
			(MHz)	Level	(dB)	Level	$(dB \mu V/m)$	(dB)	
				(dB µ V/m)		(dB µ V/m)			
		Н	320.0	37.8	-4.8	33.0	37.0	-4	QP
		Н	360.0	35.9	-3.3	32.6	37.0	-4.4	QP
	44	Н	431.9	30.8	-1.2	29.6	37.0	-7.4	QP
		Н	456.0	34.2	-0.5	33.7	37.0	-3.3	QP
		Н	912.3	23.2	6.6	29.8	37.0	-7.2	QP
Ant 0		Н	990.1	25.9	7.6	33.5	37.0	-3.5	QP
Anto	11	V	360.2	30.6	-4.1	26.5	37.0	-10.5	QP
		V	384.0	23.2	-3.4	19.8	37.0	-17.2	QP
		V	648.0	21.6	2.3	23.9	37.0	-13.1	QP
		V	744.0	22.2	3.4	25.6	37.0	-11.4	QP
		V	912.0	24.0	5.8	29.8	37.0	-7.2	QP
		V	990.1	20.9	6.8	27.7	37.0	-9.3	QP
Note 1	· The	worst cas	e of Radiate	d Emission	helow 1	1GHz			

Note 1: The worst case of Radiated Emission below 1GHz.







5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2							
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date		
EMI Test Receiver	R&S	ESCI	100573	2016.03.05	2017.03.04		
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.16	2016.11.17		
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2015.10.16	2016.10.15		
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2016.03.02	2017.03.01		
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2016.01.04	2017.01.03		

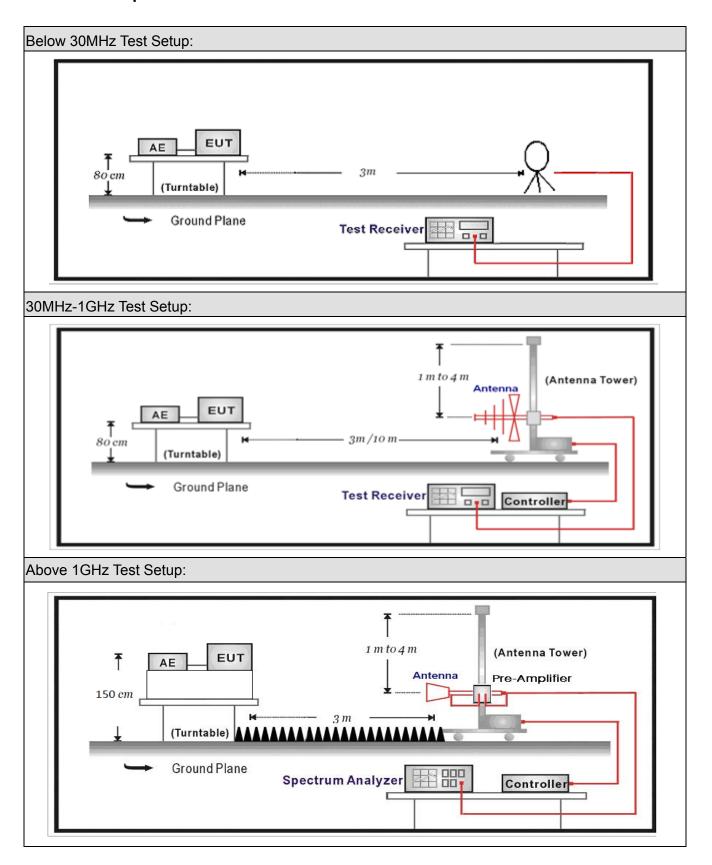
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Radiated Emission(Abo	ve 1GHz) / AC-5				
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2016.03.05	2017.03.04
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21
Broad-Band Horn					
Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C1	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	106	AC5-C2	2016.03.02	2017.03.01
		SUCOFLEX			
Coaxial Cable	Huber+Suhner	102	AC5-C3	2016.03.02	2017.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09
Temperature/Humidity					
Meter Zhichen ZC1-2 AC5-TH 2016.01.04 2017.01.03					
Note: All equipments are	e calibrated with	traceable calib	orations Each of	alibration is trac	eable to the

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.



5.2. Test Setup





5.3. Limit

Un-Restricted Band Emissions Limit					
RF Output power (Detection methods)	Limit(dB)				
RF Output power(Average detector)	30c(Note1)				
RF Output power(PK detector)	20c(Note2)				

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).



5.4. Test Procedure

Test	Meth	od						
	Refer	ences	Rule)	Chapter	Description		
	ANS	I C63	.10		11.11	Emissions in non-restricted frequency bands		
	\boxtimes	ANSI C63.10			11.11.2	Reference level measurement		
	\boxtimes	ANS	I C63	.10	11.11.3	Emission level measurement		
	ANS	NSI C63.10			11.12	Emissions in restricted frequency bands		
	\boxtimes	ANS	I C63	3.10	11.12.1	Radiated emission measurements		
	\boxtimes	ANS	I C63	3.10	11.12.2.7	Radiated spurious emission test		
	ANS	I C63	.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz		
\boxtimes	ANSI C63.10				6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz		
	ANS	SI C63.10			6.6	Radiated emissions from unlicensed wireless devices above 1 GHz		
	\boxtimes	ANS	I C63	3.10	11.12.2	Antenna-port conducted measurements		
			ANS	I C63.10	11.12.2.3	Quasi-peak measurement procedure		
		\boxtimes	ANS	I C63.10	11.12.2.4	Peak power measurement procedure		
			ANS	I C63.10	11.12.2.5	Average power measurement procedures		
				ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power		
				ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction		
				ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold		



5.5. EUT test Axis definition

Item		Emissions in no	n-restric	ted freque	ncy bands	
Davisa Catagory		Fixed position us	е			
Device Category		Mobile position u	se			
Test mode	Mode	: 1				
		Radiated				
		X Axis	Y	Axis	Z Axis	
		Worst Axis	Worst A	Axis 🗌	Worst Axis	
		Conducted				
	\boxtimes	☐ Chain 1				
Test method		•				
		Chain 1			Chain 2	
		• •				
		Worst Chain		Wors	st Chain 🗌	
		Chain 1	Cł	nain 2	Chain 3	
			• •	• •		
		Worst Chain	Worst	Chain 🗌	Worst Chain	



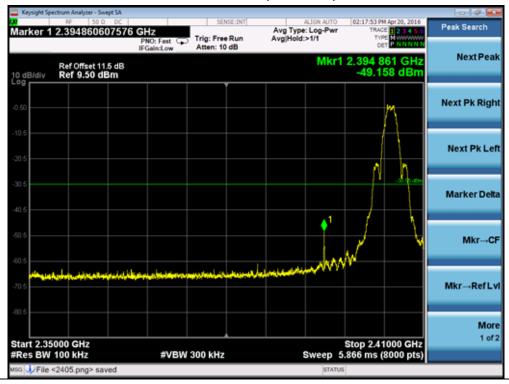
5.6. Test Result

Product Name	:	Receiver Module	Test Power	:	DC 3.3V
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	11	2405	-0.55	2400.00	-49.16	48.61	>20	Pass
1	25	2475	-0.55	2483.50	-60.01	59.46	>20	Pass

Note: The worst case of Emissions in non-restricted frequency bands as below:

Mode 1 CH11(2405MHz)





6. Radiated Emission Band Edge

6.1. Test Equipment

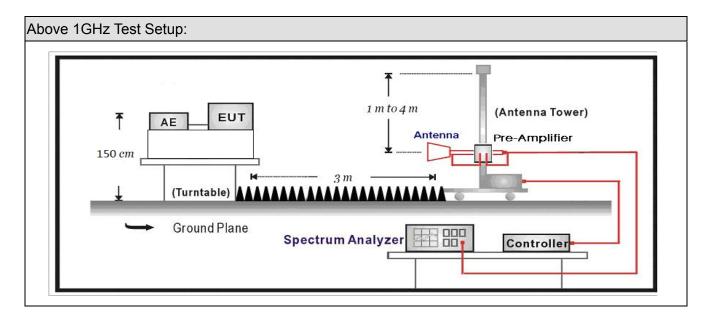
Radiated Emission(Above 1GHz) / AC-5							
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date		
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03		
Preamplifier	Miteq	NSP1800-25	1364185	2015.05.06	2016.05.05		
Preamplifier	QuieTek	AP-040G	CHM-0906001	2015.05.06	2016.05.05		
DRG Horn	ETS-Lindgren	3117	00123988	2016.01.22	2017.01.21		
Broad-Band Horn							
Antenna	Schwarzbeck	BBHA9170	294	2015.11.25	2016.11.24		
		SUCOFLEX					
Coaxial Cable	Huber+Suhner	106	AC5-C1	2016.03.02	2017.03.01		
		SUCOFLEX					
Coaxial Cable	Huber+Suhner	106	AC5-C2	2016.03.02	2017.03.01		
		SUCOFLEX					
Coaxial Cable	Huber+Suhner	102	AC5-C3	2016.03.02	2017.03.01		
EMI Receiver	Agilent	N9038A	MY51210196	2015.06.10	2016.06.09		
Temperature/Humidity							
Meter	Zhichen	ZC1-2	AC5-TH	2016.01.04	2017.01.03		

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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6.2. Test Setup



6.3. Limit

Band edge Limit								
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)				
2310-2390	PK	74	1	3				
2483.5-2500	AV	54	1	3				

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.



6.4. Test Procedure

Test	Meth	10	d						
	Refe	re	ences	Rule		Chapter	Description		
\boxtimes	ANS	SI	C63.	10		6.10	Band-edge testing		
		/	ANSI C63.10			6.10.5	Restricted-band band-edge measurements		
		/	ANSI	C63	.10	6.10.6	Marker-delta method		
\boxtimes	ANS	SI	C63.	10		11.12	Emissions in restricted frequency bands		
		,	ANSI	C63	.10	11.12.1	Radiated emission measurements		
	\boxtimes	,	ANSI	C63	.10	11.12.2.7	Radiated spurious emission test		
	ANS	SI	C63.	10		6.4	Radiated emissions from unlicensed wireless		
							devices below 30 MHz		
					6.5	Radiated emissions from unlicensed wireless			
							devices in the frequency range		
							of 30 MHz to 1000 MHz		
\boxtimes	ANS	31	C63.	10		6.6	Radiated emissions from unlicensed wireless		
							devices above 1 GHz		
		,	ANSI	C63	.10	11.12.2	Antenna-port conducted measurements		
				ANS	I C63.10	11.12.2.3	Quasi-peak measurement procedure		
				ANS	I C63.10	11.12.2.4	Peak power measurement procedure		
				ANS	I C63.10	11.12.2.5	Average power measurement procedures		
					ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission		
							at full power		
					ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the		
							EUT transmissions followed by		
							duty cycle correction		
				\boxtimes	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times		
							of the EUT transmissions		
							with max hold		

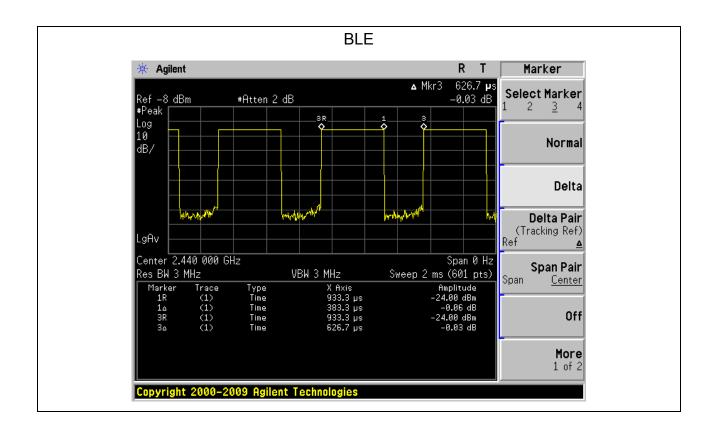


Item	Emissions in non-restricted frequency bands						
Davisa Catagory		Fixed position use					
Device Category		Mobile position us	se				
Test mode	Mode	: 1					
	\boxtimes	Radiated					
		X Axis	Y	Axis	Z Axis		
		Worst Axis	Worst A	Axis 🗌	Worst Axis 🖂		
	Conducted						
			Ch	nain 1			
Test method		•					
		Chain 1		(Chain 2		
		• •					
		Worst Chain		Wors	st Chain 🗌		
		Chain 1	Cł	nain 2	Chain 3		
			• •	• •			
		Worst Chain	Worst	Chain 🗌	Worst Chain		



6.6. Duty Cycle

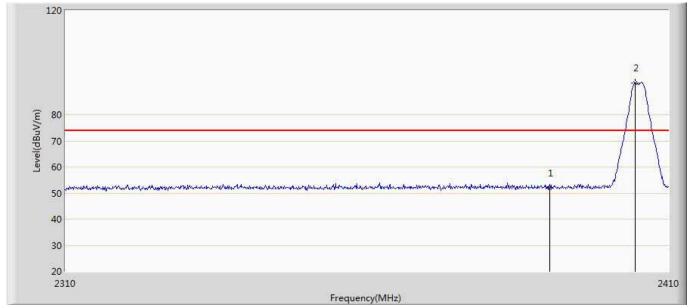
Test Mode	Tx On	Tx Off	VBW	Tx On + Tx Off	Duty Cycle
rest Mode	(ms)	(ms)	(kHz)	(ms)	(%)
Zigbee	0.3833	0.2434	2.7	0.6267	61.16





6.7 Test Result

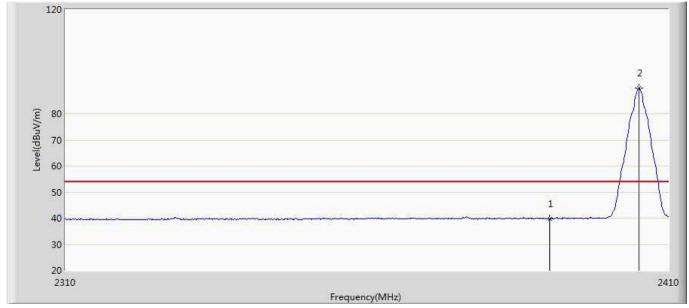
Engineer: Frank					
Site: AC5	Time: 2016/04/17 - 10:13				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: Receiver Module	Power: By Battery				
Note: Mode1: Transmit at CH2405 by Zigbee					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	51.973	14.618	-22.027	74.000	37.355	PK
2	*	2404.400	92.318	54.980	18.318	74.000	37.338	PK



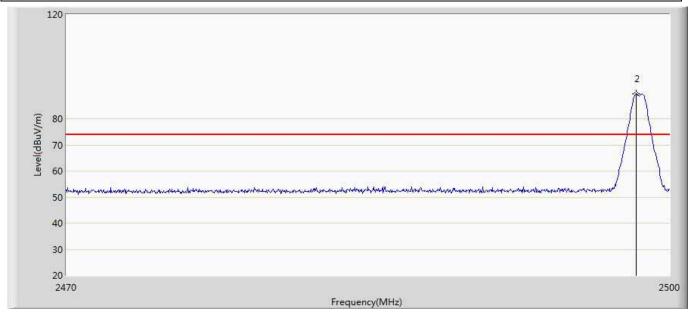
Engineer: Frank					
Site: AC5	Time: 2016/04/17 - 10:15				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: Receiver Module	Power: By Battery				
Note: Mode1: Transmit at CH2405 by Zigbee					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	39.854	2.499	-14.146	54.000	37.355	AV
2	*	2405.000	89.815	52.478	35.815	54.000	37.337	AV



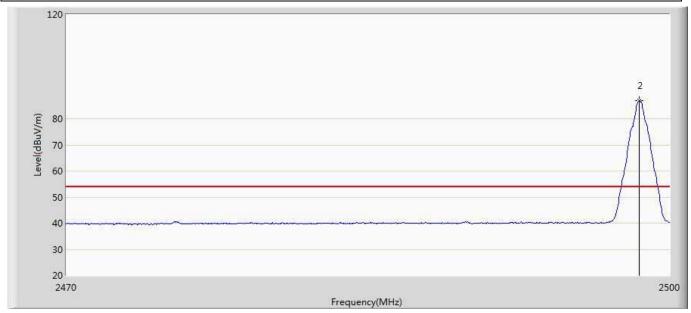
Engineer: Frank					
	T: 0040/04/47 40.47				
Site: AC5	Time: 2016/04/17 - 10:17				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical				
EUT: Receiver Module	Power: By Battery				
Note: Mode1: Transmit at CH2405 by Zigbee					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	52.683	15.328	-21.317	74.000	37.355	PK
2	*	2498.350	89.434	51.825	15.434	74.000	37.609	PK



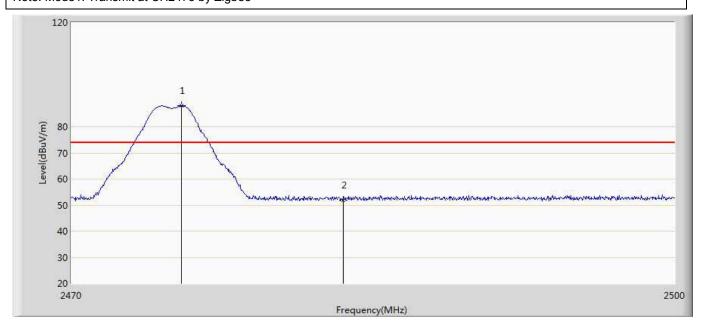
Engineer: Frank					
Site: AC5	Time: 2016/04/17 - 10:17				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical				
EUT: Receiver Module	Power: By Battery				
Note: Mode1: Transmit at CH2405 by Zigbee					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1		2390.000	39.717	2.362	-14.283	54.000	37.355	AV
2	*	2498.500	86.964	49.354	32.964	54.000	37.610	AV



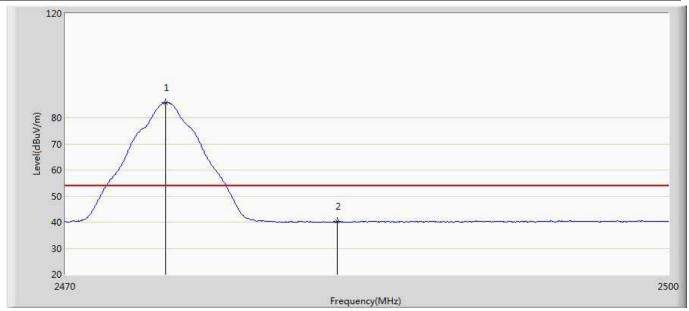
Engineer: Frank					
Site: AC5	Time: 2016/04/17 - 10:24				
Limit: FCC_Part15.209_RE(3m)	Margin: 0				
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal				
EUT: Receiver Module	Power: By Battery				
Note: Mode1: Transmit at CH2475 by Zighee	·				



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2475.460	88.046	50.579	14.046	74.000	37.467	PK
2		2483.500	51.847	14.336	-22.153	74.000	37.511	PK



Engineer: Frank						
Site: AC5	Time: 2016/04/17 - 10:24					
Limit: FCC_Part15.209_RE(3m)	Margin: 0					
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal					
EUT: Receiver Module	Power: By Battery					
Note: Mode1: Transmit at CH2475 by Zigbee						



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2474.980	85.858	48.393	31.858	54.000	37.465	AV
2		2483.500	40.283	2.772	-13.717	54.000	37.511	AV

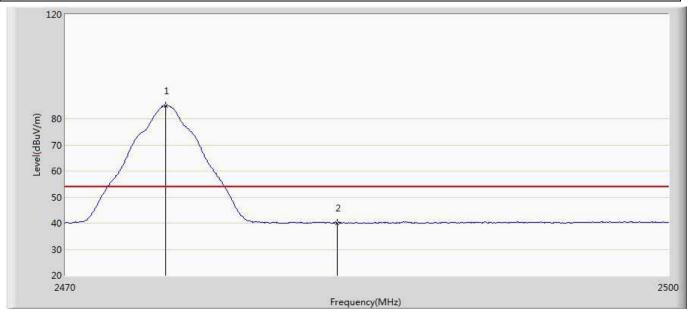


Engineer: Frank						
Site: AC5	Time: 2016/04/17 - 10:26					
Limit: FCC_Part15.209_RE(3m)	Margin: 0					
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical					
EUT: Receiver Module	Power: By Battery					
Note: Mode1: Transmit at CH2475 by Zighee	·					

No	Mark	Frequency	Measure Level Reading Level		Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2475.490	87.573	50.106	13.573	74.000	37.467	PK
2		2483.500	52.321	14.810	-21.679	74.000	37.511	PK



Engineer: Frank						
Site: AC5	Time: 2016/04/17 - 10:26					
Limit: FCC_Part15.209_RE(3m)	Margin: 0					
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical					
EUT: Receiver Module	Power: By Battery					
Note: Mode1: Transmit at CH2475 by Zigbee	·					



No	Mark	Frequency	Measure Level	Reading Level	Over Limit	Limit	Factor	Туре
		(MHz)	(dBuV/m)	(dBuV)	(dB)	(dBuV/m)	(dB)	
1	*	2474.980	85.045	47.580	31.045	54.000	37.465	AV
2		2483.500	40.117	2.606	-13.883	54.000	37.511	AV



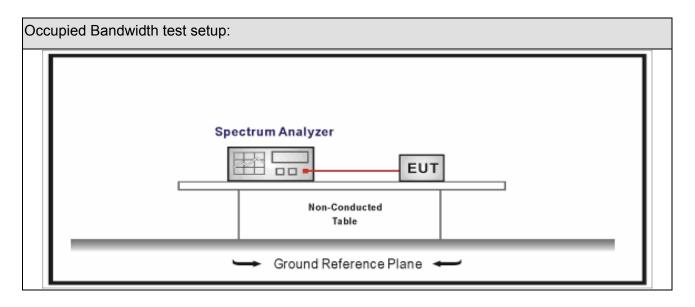
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8										
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date					
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03					
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10					
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2017.04.10					

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup





7.3. **Limit**

0	ccu	pied	Bar	ndw	idth

Systems using digital modulation techniques operate in the2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test	Test Method									
	Reference Rule	Chapter	Description							
	ANSI C63.10	11.8	DTS bandwidth							
	☐ ANSI C63.10	11.8.1	Option 1							
		11.8.2	Option 2							



Item		Occ	cupied B	andwidth		
Daviss Oats		Fixed position us	е			
Device Category	\boxtimes	Mobile position u	se			
Test mode	Mode	1,Mode 2, Mode 3	,Mode 4			
		Radiated				
		X Axis	Y	Axis	Z Axis	
		Worst Axis	Worst A	Axis 🗌	Worst Axis	
		Conducted			,	
	\boxtimes		Ch	nain 1		
Test method						
		Chain 1			Chain 2	
		• •				
		Worst Chain		Wor	st Chain	
		Chain 1	Cł	nain 2	Chain 3	
			• •	• •		
		Worst Chain	Worst	Chain 🗌	Worst Chain	



7.6. Test Result

Product Name	:	Receiver Module	Test Power	:	DC 3.3V
Test Site	:	TR-8			

Mode	CH.	Test Freq.	•	ed Bandwidth Hz)	•	ed Bandwidth Hz)	Limit	Result
		(MHz)	Ant 0	Ant 1	Ant 0	Ant 1	(kHz)	
1	11	2405	2677.4	2670.1	1593	1598	>500	Pass
1	18	2440	2623.9	2631.2	1614	1601	>500	Pass
1	25	2475	2596.1	2599.8	1624	1617	>500	Pass

Note: The worst case of Occupied Bandwidth as below:

Mode 1 CH11 (2405MHz) Ant 0





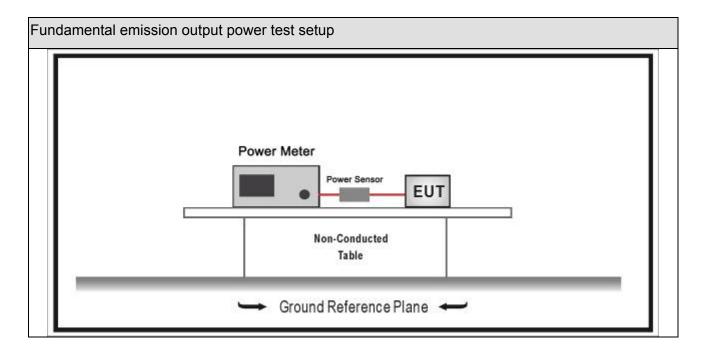
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8									
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date				
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10				
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2015.11.11	2016.11.10				
Power Sensor	Anritsu	MA2411B	0846014	2015.11.11	2016.11.10				
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2016.04.10	2017.04.09				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup





8.3. Limit

Fund	ndamental emission output power Limit								
	Gтх	< 6dBi	Pout	30dBm					
	Gтх :	> 6dBi							
		Non-Fix point-point	Pout	30-(GTX -6)					
		Fix point-point	Pout	30-[(Gтx-6)]/3					
		Point-to-multipoint	Pout	30-(GTX-6)					
		Overlap Beams	Pout	30-[(G⊤x-6)]/3					
	Aggregate power transmitted simultaneously on all beams		Pout	30-[(G⊤x-6)]/3					
	single directional beam Pout 30-[(GTX-6)]/3+8dB								
	Note 1 : G _T x directional gain of transmitting antennas. Note 2 : P _{out} is maximum peak conducted output power .								



8.4. Test Procedure

Fund	ament	i				
	References Rule Cha					Description
	ANSI	C63.1	10		11.9	Fundamental emission output power
	\boxtimes	ANSI	C63.	10	11.9.1	Maximum peak conducted output power
			ANSI	C63.10	11.9.1.1	RBW ≥ DTS bandwidth
			ANSI	C63.10	11.9.1.2	Integrated band power method
		\boxtimes	ANSI	C63.10	11.9.1.3	PKPM1 Peak power meter method
		ANSI	C63.	10	11.9.2	Maximum conducted (average) output power
			ANSI	C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)
				ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle 98%)
				ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle 98%)
				ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle 98%)
				ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle 98%)
				ANSI C63.10	11.9.2.2.4	Method AVGSA-3
		☐ ANSI C63.10		11.9.2.2.5	Method AVGSA-3A	
			☐ ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
			☐ ANSI C63.10		11.9.2.3.1	Method AVGPM
				ANSI C63.10	11.9.2.3.2	Method AVGPM-G



Item	Fundamental emission output power					
Davisa Catagory		Fixed position us	е			
Device Category		Mobile position u	se			
Test mode	Mode	: 1				
		Radiated				
		X Axis	Y	Axis	Z Axis	
		Worst Axis	Worst A	Axis 🗌	Worst Axis	
		Conducted				
Test method		•				
		Chain 1		Chain 2		
			•	•		
		Worst Chain		Wor	st Chain 🗌	
		Chain 1	Cł	nain 2	Chain 3	
			• •	• •		
		Worst Chain	Worst	Chain 🗌	Worst Chain	



8.6. Test Result

Product Name	:	Receiver Module	Test Power	Ŀ	DC 3.3V
Test Site	:	TR8			

Mada	Chanal	Test	Measurement (dE	Limit	Popult	
Mode	Cnannei	Frequency (MHz)	Ant 0 Ant 1		(dBm)	Result
1	11	2405	4.88	4.86	30	Pass
1	18	2440	4.37	4.18	30	Pass
1	25	2475	2.94	3.09	30	Pass



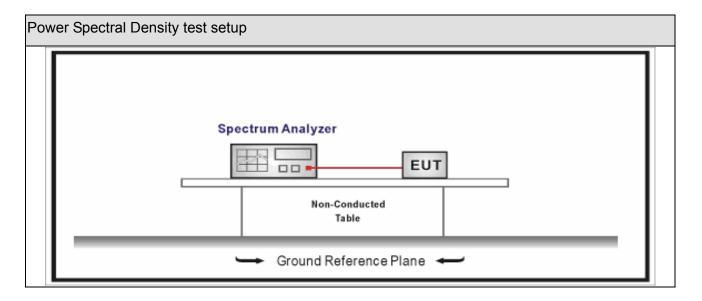
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8									
Instrument Manufacturer Type No. Serial No. Cal. Date Cal. Due									
Spectrum Analyzer	Agilent	E4446A	MY45300103	2016.01.04	2017.01.03				
Spectrum Analyzer	Agilent	N9010A	MY48030494	2016.03.11	2017.03.10				
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2015.04.10	2017.04.10				

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limit

Power Spectral Density Limit					
Power Spectral Density 8dBm/3kHz					



9.4. Test Procedure

Powe	ower Spectral Density Test Method									
		References Rule	Chapter	Description						
	ANSI	C63.10	11.10	Maximum power spectral density level in the fundamental emission						
	\boxtimes	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)						
	☐ ANSI C63.10		11.10.3	Method AVGPSD-1(Duty cycle 98%)						
		ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle 98%)						
		ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle < 98%)						
		ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle < 98%)						
	☐ ANSI C63.10		11.10.7	Method AVGPSD-3						
		ANSI C63.10	11.10.8	Method AVGPSD-3A						



Item	Power Spectral Density Test Method						
Davisa Catagory		Fixed position us	е				
Device Category		Mobile position u	se				
Test mode	Mode	: 1					
		Radiated					
		X Axis	Y	Axis	Z Axis		
		Worst Axis	Worst A	Axis 🗌	Worst Axis		
Test method	•						
		Chain 1		Chain 2			
		• •					
		Worst Chain		Wor	st Chain 🗌		
		Chain 1	Cł	nain 2	Chain 3		
			• •	• •			
		Worst Chain	Worst	Chain 🗌	Worst Chain		



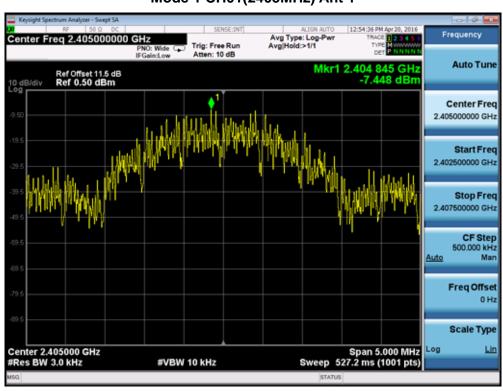
9.6. Test Result

Product Name	:	Receiver Module	Test Power	• •	DC 3.3V
Test Site	:	TR8			

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz) Ant 0 Ant 1		Limit (dBm/3kHz)	Result
1	11	2405	-7.704	-7.448	8	Pass
1	18	2440	-7.974	-7.982	8	Pass
1	25	2475	-9.189	-9.287	8	Pass

Note: The worst case of Power Spectral Density as below:

Mode 1 CH01(2405MHz) Ant 1



The End ————