# **FCC TEST REPORT**

FCC ID: 2BFFE-DT-UNIT-4-A

**Report No.** : SSP24030103-1E

**Applicant**: IDQ Science and Technology (Hengqin, Guangdong) Co. Ltd.

**Product Name** : Analog Output Base Station

**Model Name** : DT-UNIT-4-A

**Test Standard**: FCC Part 15.249

**Date of Issue** : 2024-04-10

**Prepared By** Shenzhen CCUT Quality Technology Co., Ltd.



#### Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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APPROVE

#### **Test Report Basic Information**

IDQ Science and Technology (Hengqin, Guangdong) Co. Ltd. Applicant.....

7 # Building, No.1889, Huandao East Road, Hengqin District, Zhuhai,

Address of Applicant..... Guangdong, China

Manufacturer..... Shenzhen Greedar Technology Co., Ltd

Room406, B Block, Donghe industrial Building No#6, Yuehe Street, Yantian

Address of Manufacturer.....: District, Shenzhen, Guangdong

Product Name...... Analog Output Base Station

Brand Name..... -

Main Model...... DT-UNIT-4-A

Series Models....:

FCC Part 15 Subpart C

ANSI C63.4-2014

**Test Standard**...... ANSI C63.10-2013

Test Result..... PASS

(Walker Wu)

(Lieber Ouyang)

Authorized Signatory..... (Lahm Peng)

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Revision	Issue Date	Description	Revised By
V1.0	2024-04-10	Initial Release	Lahm Peng

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## 1. General Information

## 1.1 Product Information

Product Name:	Analog Output Base Station
Trade Name:	-
Main Model:	DT-UNIT-4-A
Series Models:	-
Rated Voltage:	DC 5V
Battery:	-
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gat	hered from a production sample, provided by the manufacturer.

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Wireless Specification	
Wireless Standard:	2.4GHz RF
Operating Frequency:	2405MHz ~2480MHz
Max. Field Strength:	92.33dBuV/m
Quantity of Channel:	16
Channel Separation:	3MHz
Modulation:	GFSK
Antenna Gain:	4.02dBi
Type of Antenna:	External Antenna
Type of Device:	☐ Portable Device ☐ Modular Device

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List of Test Modes							
Test Mode	De	escription		Remark			
TM1	Tra	nsmitting		2405/2440/24	80MHz		
TM2	C	Charging		AC 120V/6	0Hz		
List and Detai	ls of Auxiliary	/ Cable					
Descrip	otion	Length (cm)		Shielded/Unshielded	With/Without Ferrite		
-		-		-	-		
-			-	-			
List and Detai	List and Details of Auxiliary Equipment						
Descrip	otion	Manufacturer		Manufacturer		Model	Serial Number
Noteb	ook	Lenovo		ThlnkPad E15 Gen 2	SPPOP39975		
-		-		-	-		

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List of Chann	iels						
No. of	Frequency	No. of	Frequency	No. of	Frequency	No. of	Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
01	2405	05	2425	09	2445	13	2465
02	2410	06	2430	10	2450	14	2470
03	2415	07	2435	11	2455	15	2475
04	2420	08	2440	12	2460	16	2480

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## 1.3 Compliance Standards

Compliance Standards			
700 P 45 0 L 0	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
All measurements contained in this	report were conducted with all above standards		
According to standards for test	methodology		
ECC Dout 15 Cubmout C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
	American National Standard for Methods of Measurement of Radio-Noise Emissions		
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40		
	GHz.		
ANCI CC2 10 2012	American National Standard of Procedures for Compliance Testing of Unlicensed		
ANSI C63.10-2013	Wireless Devices		
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which			
result is lowering the emission, should be checked to ensure compliance has been maintained.			

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#### 1.4 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,
Guangming District, Shenzhen, Guangdong, China
L18863
6893.01
583813
CN0164

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

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#### 1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date	
Conducted Emissions						
AMN	ROHDE&SCHWARZ	ENV216	101097	2023-10-21	2024-10-20	
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30	
		Radiated Emission	ons			
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30	
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30	
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2023-07-31	2024-07-30	
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30	
Amplifier	HUABO	YXL0518-2.5-45		2023-07-31	2024-07-30	
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2023-07-31	2024-07-30	
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06	
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06	
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06	
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2023-08-07	2024-08-06	
	Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2023-07-31	2024-07-30	
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2023-07-31	2024-07-30	

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## 1.6 Measurement Uncertainty

Test Item	Conditions Uncertainty	
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
	9kHz ~ 30MHz	±2.88 dB
Radiated Emissions	30MHz ∼ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %

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FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.249(a)&(d)	Radiated Emissions	Passed
FCC Part 15.249(d)	Band-edge Emissions	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed

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Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

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## 3. Antenna Requirement

#### 3.1 Standard and Limit

According to FCC Part 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 shall be considered sufficient to comply with the provisions of this section.

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#### 3.2 Test Result

This product has an External antenna, fulfill the requirement of this section.

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#### 4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emissions (dBuV)		
(MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56	56 to 46	
0.5-5	56	46	
5-30	60	50	

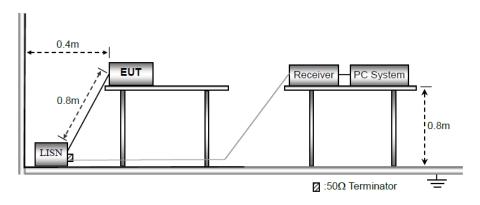
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Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

Note 2: The lower limit applies at the band edges

#### 4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

- a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
- b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz Stop Frequency: 30MHz IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item photographs of the test setup.

#### 4.3 Test Data and Results

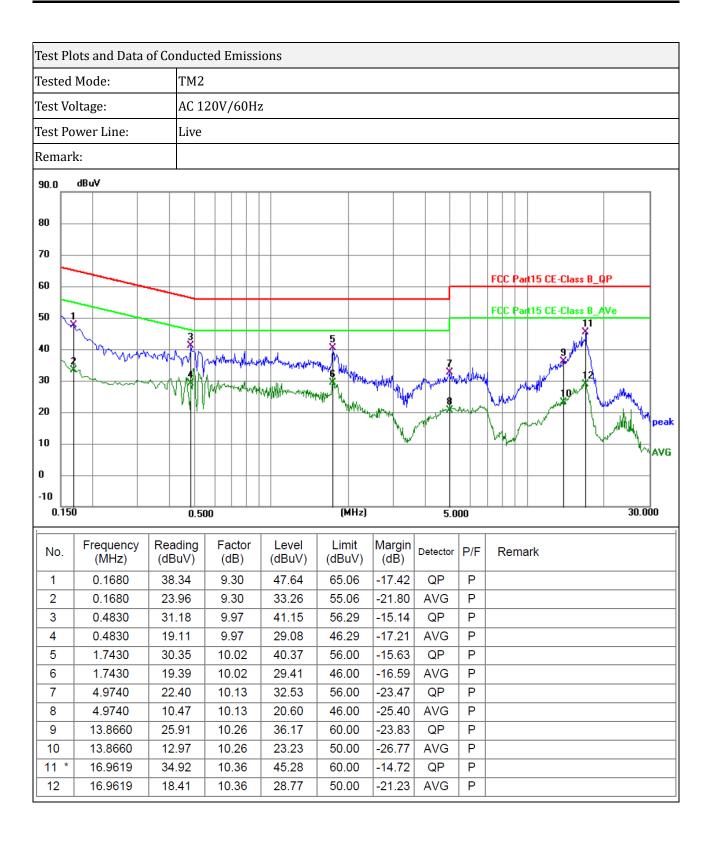
All of the 2.4G RF modes have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case 2.4G RF\_2405MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Tested	Mode:	r	TM2						
Test Voltage:			AC 120V/60Hz						
			•	JU11Z					
	ower Line:	1	Neutral						
Remark:									
90.0	dBuV								
80									
70									
-									FCC Part15 CE-Class B_QP
60									
50									FCC Part15 CE-Class B_AVe
. "	M.	3							
40	What was	~~~\\	Max Mu	ara wasan Jara	\$ *			٦,	7 9 12
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10							+		W WAV
0									
-10									
0.15	0	0.50	)0		(MHz)		5.0	000	30.000
		D 1"	F 1		1 : :4				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1545	40.88	9.63	50.51	65.75	-15.24	QP	Р	
2	0.1545	24.39	9.63	34.02	55.75	-21.73	AVG	Р	
3	0.5190	30.44	9.95	40.39	56.00	-15.61	QP	Р	
4	0.5190	21.18	9.95	31.13	46.00	-14.87	AVG	Р	
5	1.5405	25.78	10.02	35.80	56.00	-20.20	QP	Р	
7	1.5405 6.8730	13.32 21.49	10.02 10.17	23.34 31.66	46.00 60.00	-22.66 -28.34	AVG QP	P	
8	6.8730	6.70	10.17	16.87	50.00	-33.13	AVG	P	
9	11.1254	25.95	10.19	36.14	60.00	-23.86	QP	P .	
10	11.1254	14.83	10.19	25.02	50.00	-24.98	AVG	Р	
11 *	17.0069	35.26	10.16	45.42	60.00	-14.58	QP	Р	
12	17.0069	21.89	10.16	32.05	50.00	-17.95	AVG	Р	

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#### 5. Radiated Emissions

#### 5.1 Standard and Limit

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

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Eundomontal fraguency	Field strength of fundamental	Field strength of Harmonics	
Fundamental frequency	(milli-volts/meter)	(micro-volts/meter)	
902-928 MHz	50	500	
2400-2483.5 MHz	50	500	
5725-5875 MHz	50	500	
24.0-24.25 GHz	250	2500	

According to §15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Fraguency of amission (MHz)	Radiated emissions (3m)				
Frequency of emission (MHz)	Quasi-peak (dBuV/m)				
30-88	40				
88-216	43.5				
216-960	46				
Above 960	54				
Note: The more stringent limit applies at transition frequencies.					

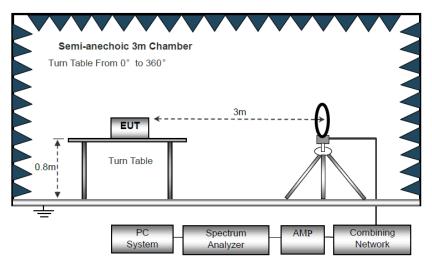
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

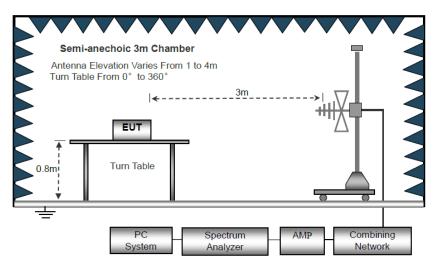
#### **5.2 Test Procedure**

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

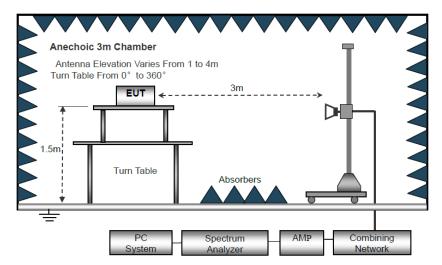
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Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

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1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest

emissions.

c) Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz

VBW ≥ RBW, Sweep = auto

Detector function = peak

Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT,

adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being

corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz,

VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

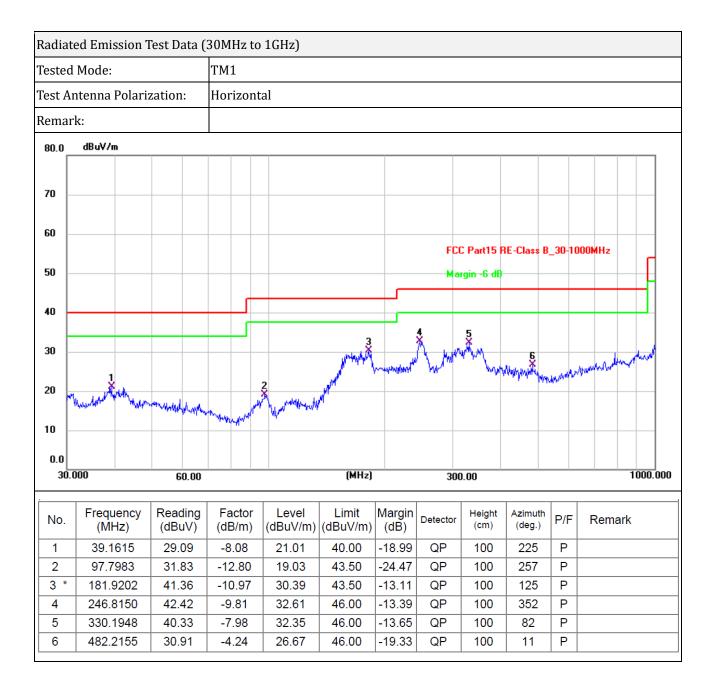
f) For the actual test configuration, please refer to the related item - EUT test photos.

#### 5.3 Test Data and Results

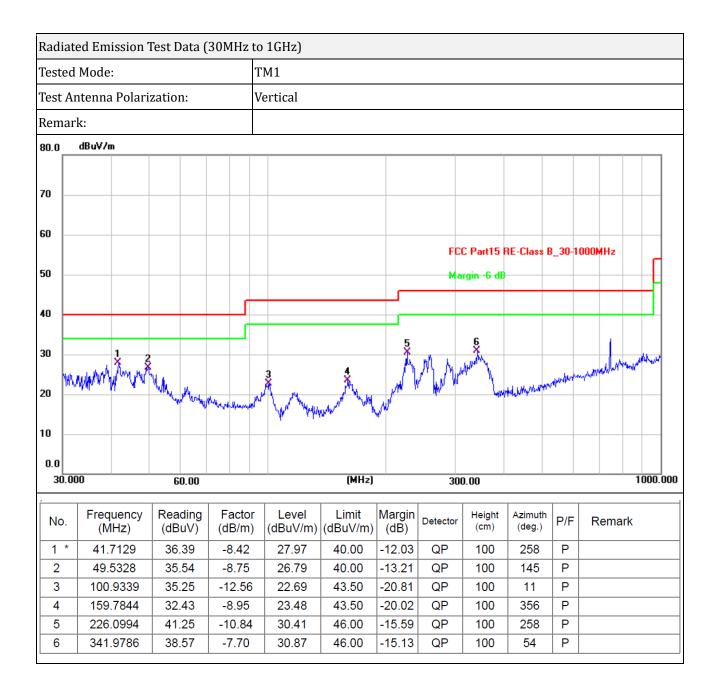
All of the 2.4G RF modes have been tested, the EUT complied with the FCC Part 15.249 standard limit for a wireless device, and with the worst case 2.4G RF\_2405MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
			Lowest Chann	nel (2405MHz)			<b>-</b>
2405	113.14	-20.81	92.33	114	-21.67	Н	PK
2405	91.89	-20.81	71.08	94	-22.92	Н	AV
4810	77.85	-14.72	63.13	74	-10.87	Н	PK
4810	60.04	-14.72	45.32	54	-8.68	Н	AV
7215	63.51	-8.41	55.1	74	-18.9	Н	PK
7215	49.46	-8.41	41.05	54	-12.95	Н	AV
2405	109.21	-20.81	88.4	114	-25.6	V	PK
2405	89.53	-20.81	68.72	94	-25.28	V	AV
4810	74.78	-14.72	60.06	74	-13.94	V	PK
4810	59.46	-14.72	44.74	54	-9.26	V	AV
7215	62.14	-8.41	53.73	74	-20.27	V	PK
7215	47.63	-8.41	39.22	54	-14.78	V	AV
			Middle Chann	el (2440MHz)			
2440	112.55	-20.5	92.05	114	-21.95	Н	PK
2440	94.71	-20.5	74.21	94	-19.79	Н	AV
4880	75.5	-14.64	60.86	74	-13.14	Н	PK
4880	62.49	-14.64	47.85	54	-6.15	Н	AV
7320	62.23	-8.28	53.95	74	-20.05	Н	PK
7320	49.22	-8.28	40.94	54	-13.06	Н	AV
2440	107.61	-20.6	87.01	114	-26.99	V	PK
2440	88.71	-20.6	68.11	94	-25.89	V	AV
4880	75.87	-14.64	61.23	74	-12.77	V	PK
4880	57.78	-14.64	43.14	54	-10.86	V	AV
7320	64.27	-8.28	55.99	74	-18.01	V	PK
7320	50.6	-8.28	42.32	54	-11.68	V	AV

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Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
			Highest Chann	nel (2480MHz)			
2480	110.89	-20.50	90.39	114	-23.61	Н	PK
2480	91.28	-20.50	70.78	94	-23.22	Н	AV
4960	79.42	-14.53	64.89	74	-9.11	Н	PK
4960	60.27	-14.53	45.74	54	-8.26	Н	AV
7440	65.37	-8.13	57.24	74	-16.76	Н	PK
7440	49.18	-8.13	41.05	54	-12.95	Н	AV
2480	105.55	-20.55	85.00	114	-29.00	V	PK
2480	87.60	-20.55	67.05	94	-26.95	V	AV
4960	77.18	-14.53	62.65	74	-11.35	V	PK
4960	60.28	-14.53	45.75	54	-8.25	V	AV
7440	64.03	-8.13	55.9	74	-18.1	V	PK
7440	45.53	-8.13	37.4	54	-16.6	V	AV

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded in report. 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

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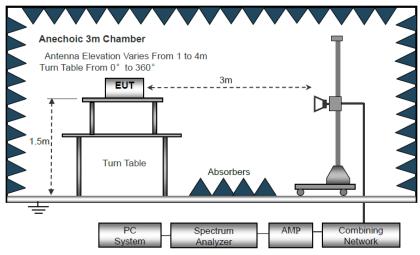
## 6. Band-edge Emissions

#### 6.1 Standard and Limit

According to §15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

#### **6.2 Test Procedure**

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

#### 6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit, and with the worst case as below:

Test Mode	Frequency	Limit	Result
Test Mode	MHz	dBuV/dBc	Result
Lavyrach	2310.00	<54 dBuV	Pass
Lowest	2390.00	<54 dBuV	Pass
11:-1	2483.50	<54 dBuV	Pass
Highest	2500.00	<54 dBuV	Pass

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Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
	,	,	west Channel (	,	II Hz)		,
2310	68.67	-21.34	47.33	74	-26.67	Н	PK
2310	49.41	-21.34	28.07	54	-25.93	Н	AV
2390	67.46	-20.96	46.5	74	-27.5	Н	PK
2390	50.2	-20.96	29.24	54	-24.76	Н	AV
2400	68.42	-20.91	47.51	74	-26.49	Н	PK
2400	56.96	-20.91	36.05	54	-17.95	Н	AV
2310	68.58	-21.34	47.24	74	-26.76	V	PK
2310	52.37	-21.34	31.03	54	-22.97	V	AV
2390	66.5	-20.96	45.54	74	-28.46	V	PK
2390	50.25	-20.96	29.29	54	-24.71	V	AV
2400	70.69	-20.91	49.78	74	-24.22	V	PK
2400	54.37	-20.91	33.46	54	-20.54	V	AV
		Hig	ghest Channel	GFSK (2480M	Hz)		
2483.50	68.72	-20.51	48.21	74	-25.79	Н	PK
2483.50	51.53	-20.51	31.02	54	-22.98	Н	AV
2500	65.78	-20.43	45.35	74	-28.65	Н	PK
2500	49.24	-20.43	28.81	54	-25.19	Н	AV
2483.50	64.71	-20.51	44.2	74	-29.8	V	PK
2483.50	49.08	-20.51	28.57	54	-25.43	V	AV
2500	66.69	-20.43	46.26	74	-27.74	V	PK
2500	49.74	-20.43	29.31	54	-24.69	V	AV

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### 7. Occupied Bandwidth

#### 7.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

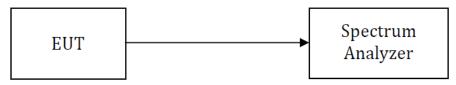
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#### 7.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 20kHz, VBW = 62kHz, Sweep = Auto.
- 4) Set a reference level on the measuring instrument equal to the highest peak value.
- 5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- 6) Repeat the above procedures until all frequencies measured were complete.

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.



Test Setup Block Diagram

#### 7.3 Test Data and Results

Test Channel	Test Frequency	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	
Lowest Channel	2405MHz	0.9335	0.86980	
Middle Channel	2440MHz	0.9409	0.88288	
Highest Channel	2480MHz	0.9431	0.88787	

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#### \*\*\*\*\* END OF REPORT \*\*\*\*\*

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