

TEST REPORT

Product Name : Handset Model Number : KDH266

FCC ID : 2AOTUKDH266

Prepared for : CHANGZHOU KAIDI ELECTRICAL INC.

Address : JiangCun, Henglin Town, Changzhou City, Jiangsu

Province, China

Prepared by : EMTEK (NINGBO) CO., LTD.

Address : No. 8, Building 8, Lane 216, Qingyi Road, Ningbo High-Tech

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Report Number : ENB2501030139W00101R

Date(s) of Tests : January 03, 2025 to March 05, 2025

Date of Issue : April 02, 2025



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1 TEST RESULT CERTIFICATION

Applicant : CHANGZHOU KAIDI ELECTRICAL INC.

Address : JiangCun, Henglin Town, Changzhou City, Jiangsu Province, China

Manufacturer : CHANGZHOU KAIDI ELECTRICAL INC.

Address : JiangCun, Henglin Town, Changzhou City, Jiangsu Province, China

EUT : Handset

Model Name : KDH266

Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS			

The above equipment was tested by EMTEK(NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.249

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	January 03, 2025 to March 05, 2025
Prepared by :	WK Luo
	WK Luo /Engineer
Reviewer:	Time Gao MINGBO
	June Gao /Superviso
Approved & Authorized Signer :	Tony Wei /Manager



Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENB2501030139W00101R	1	Original Report





2 EUT TECHNICAL DESCRIPTION

Product:	Handset		
Model Number: KDH266			
Sample Number:	ENB2501030139W001-1-1		
Test Voltage:	DC 4.5V		
Modulation:	GFSK		
Frequency Range:	2442 MHz		
Max Transmit Power:	93.71 dBuV/m		
Antenna:	PCB antenna		
Antenna Gain:	0.0 dBi		
Temperature Range:	-40°C ~ 85°C		
Date of Received: January 03, 2025			

Note: for more details, please refer to the user's manual of the EUT.



3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.207	Conducted Emission	N/A	
15.209	Radiated Emission	PASS	
15.249	Radiated Spurious Emission	PASS	
15.249	Band edge test		
15.249 20dB Bandwidth		PASS	
15.203	03 Antenna Requirement		

NOTE1: N/A is an abbreviation for not applicable

NOTE2: The report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AOTUKDH266 filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Radiated Emission Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-185	ENE-185 EMI Test Receiver R&S		ESR7	102480	April 25, 2024	1 Year
ENE-190	ENE-190 Antenna Multiple Schwarzbeck		VULB 9163	01499	May 18, 2024	1 Year
ENE-195	Pre-Amplifier	JS Denki	PA09K03-40	JSPA21019	April 25, 2024	1 Year
ENE-204	Low Frequency Notch Filter RF Switching	JS Denki	JSDSW-F	JSDSW2211D 02	April 25, 2024	1 Year
ENE-251	6dB Attenuator	Mini-Circuits	UNAT-6+	11542	July 02, 2024	1 Year
ENE-279- 1	RF Cable	Rosenberger	L17-C001-7000	1	May 30, 2024	1 Year
ENE-279- 2	RF Cable	Rosenberger	L17-C001-3500	1	May 30, 2024	1 Year
ENE-279-	RF Cable	Rosenberger	L17-C001-1500	1	May 30, 2024	1 Year
ENE-279- 4	RF Cable	Rosenberger	1	1	May 30, 2024	1 Year
ENE-279- 5	RF Cable	Rosenberger	1	1	May 30, 2024	1 Year
ENE-279- 6	RF Cable	Rosenberger	L08-C446-1500	1	May 30, 2024	1 Year
ENE-171 EXA Signal KEYSIGH		KEYSIGHT	N9010B	MY60242467	Oct. 28, 2024	1 Year
ENE-191	Horn Antenna	Schwarzbeck	BBHA 9120 D	02588	May 18, 2024	2 Year
ENE-198	Pre-Amplifier	JS Denki	PA0118-50	JSPA21022	April 25, 2024	1 Year
ENE-281- 1	RF Cable	Rosenberger	LA2-C125-3500	1	May 30, 2024	1 Year
ENE-281- 2	RF Cable	Rosenberger	LA2-C125-1500	1	May 30, 2024	1 Year
ENE-281- 3	RF Cable	Rosenberger	LU7-C1511-120 0	1	May 30, 2024	1 Year
ENE-285- 1	RF Cable	Rosenberger	LA2-C199-6500	1	May 30, 2024	1 Year
ENE-206	High Frequency Notch FilterRf Switching	JS Denki	JSDSW-F	202083582	April 25, 2024	1 Year
ENE-144	3-Meter Anechoic Chamber 2#	SKET	9*6*6m	1	June 19, 2022	3 Year



4.2.2 Radio Frequency Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-256	EXA Signal Anaalyzer	Keysight	N9010B	MY62060219	July 02, 2024	1 Year
ENE-172	RF Control Unit	Tonscend	JS0806-2(V.6E)	21L8060521	March 03, 2025	1 Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

The EUT has been tested under its typical operating condition so those modulation and channel were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2442				
Note: N/A					

Test Frequency and Channel list:

a	con requestry and charmen lies.						
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
	1	2442					
	Note: N/A						

4.4 TEST SOFTWARE

Item	Software
Conducted Emission:	N/A
Radiated Emission:	JSDEMC-RE(V 3.9)



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo High-Tech Zone, Ningbo, Zhejiang, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 32.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Designation by FCC

Designation Number: CN1354

Test Firm Registration Number: 427606

Accredited by A2LA

The Certificate Number is 4321.03.
The certificate is valid until May 31, 2025

Designation by Industry Canada

The Conformity Assessment Body Identifier is CN0114

Name of Firm : EMTEK (NINGBO) CO., LTD.

Site Location : No. 8, Building 8, Lane 216, Qingyi Road, High-Tech Zone, Ningbo,

Zhejiang, China



6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5℃
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%





7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The EUT wireless component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

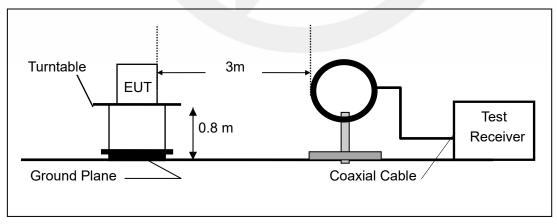
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

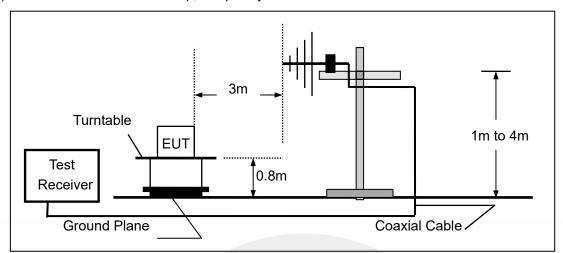
The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

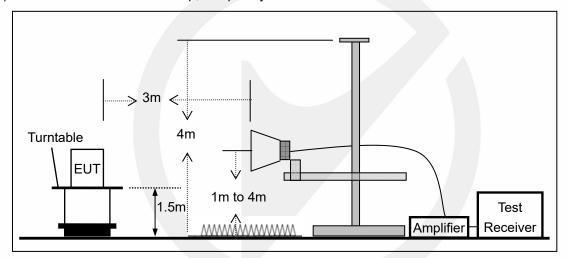




(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



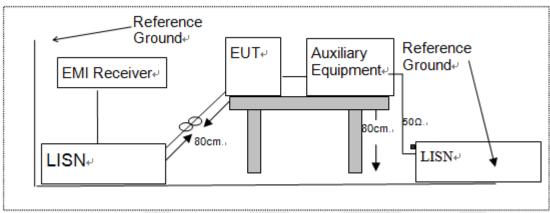


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 SUPPORT EQUIPMENT

EUT Cable List and Details							
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite							
1	1	1	1				

Auxiliary Cable List and Details							
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite							
1	1	1	1				

Auxiliary Equipment List and Details							
Description Manufacturer Model Serial Number							

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



8 TEST REQUIREMENTS

8.1 BANDWIDTH TEST

8.1.1 Applicable Standard

According to FCC Part 15.249

8.1.2 Conformance Limit

N/A

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.4 Test Procedure

The EUT was operating in controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW ≥ 1% of the 20 dB bandwidth (100KHz)

Set the video bandwidth (VBW) ≥ RBW (300KHz).

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

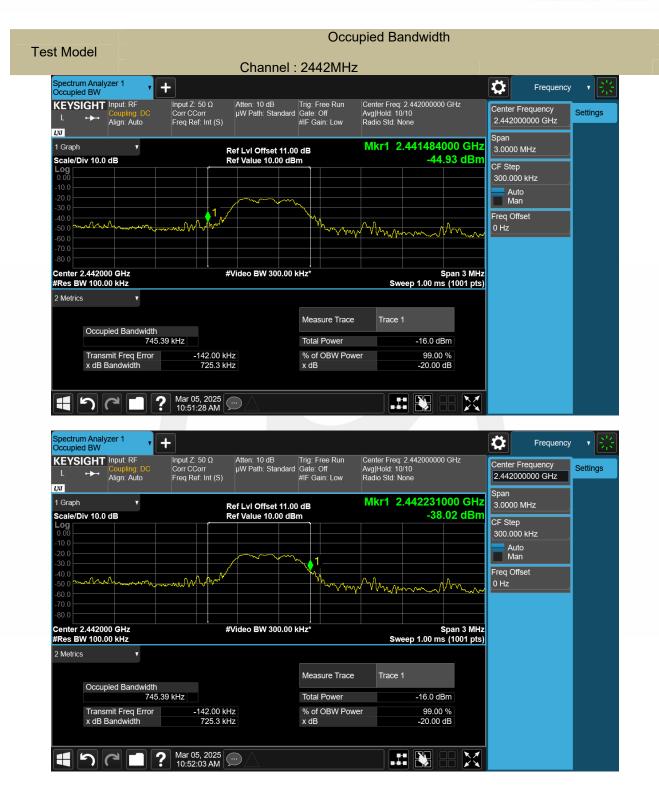
Measure and record the results in the test report.

Test Results

Temperature:	21° C
Relative Humidity:	40%
ATM Pressure:	1011 mbar

Operation Mode	Channel Frequency (MHz)	20db Measurement Bandwidth (kHz)	99% Measurement Bandwidth (kHz)	Limit (kHz)	Verdict
GFSK	2442	725.30	745.39	N/A	PASS
Note: N/A (Not Applicable).				







8.2 RADIATED SPURIOUS EMISSION

8.2.1 Applicable Standard

According to FCC Part 15.249 and 15.209

8.2.2 Conformance Limit

According to FCC Part 15.249: 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)).

According to FCC Part15.205, Restricted bands

According to 1 00 1 dr. 10:200; Nestricted barries							
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
10.495-0.505	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	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				
8.41425-8.41475	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	(2)				
13.36-13.41							

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



Field strength of fundamental and Field strength of harmonics Limit:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50(94 dBV/m)	500(54 dBV/m)
2400-2483.5 MHz	50(94 dBV/m)	500(54 dBV/m)
5725-5875 MHz	50(94 dBV/m)	500(54 dBV/m)
24.0-24.25 GHz	250(108 dBV/m)	2500(68 dBV/m)

As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section 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 this report

Fundamental Frequency	Field Strength	Field Strength of Spurious	
. unaumoman roquemy	Of Fundamental	Emissions	
	AV:94 dBuV/m at 3m distance	AV:54 dBuV/m at 3m	
2400-2483.5 MHz		distance	
2400-2403.3 IVITZ	PK:114 dBuV/m at 3m	PK:74 dBuV/m at 3m	
	distance	distance	

8.2.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.2.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz)

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.2.5 Test Results

Temperature:	20° C
Relative Humidity:	47%
ATM Pressure:	1011 mbar



Spurious Emission below 30MHz (9KHz to 30MHz)

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK `	ΑÝ	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

Field Strength of the fundamental signal

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m	(dBuV/m)	Ove	er(dB)
(MHz)	H/V	PK `	AV	PK	AV	PK	AV
2441.940	V	80.46	65.92	114	94	-33.54	-28.08
2441.720	Н	93.71	78.86	114	94	-20.29	-15.14

Note: (1) Correct Factor= Antenna Factor +Cable Loss- Amplifier Gain

(2) Emission Level= Reading Level+Probe Factor +Cable Loss

Out of Band Emissions

Test mode: GFSK Frequency: Channel: 2442 MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2449.580	Н	62.34	74	47.46	54
2449.620	V	50.61	74	35.74	54

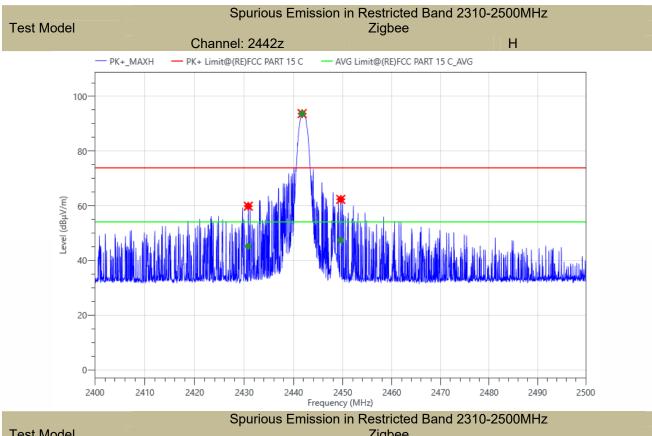
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

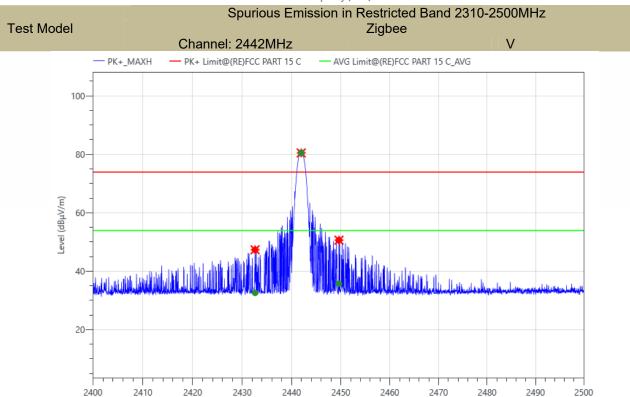
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.

(3) Correct Factor= Ant F + Cab L - Preamp

(4)Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.





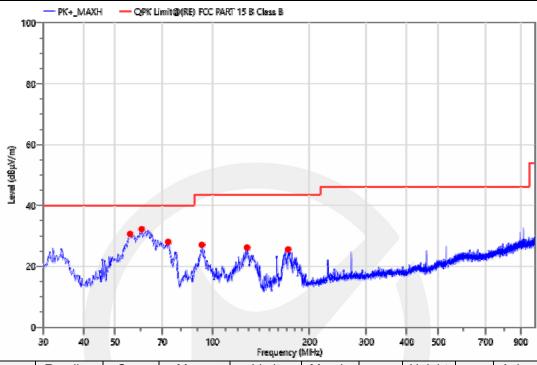


Frequency (MHz)



■ Spurious Emission below 1GHz (30MHz to 1GHz)

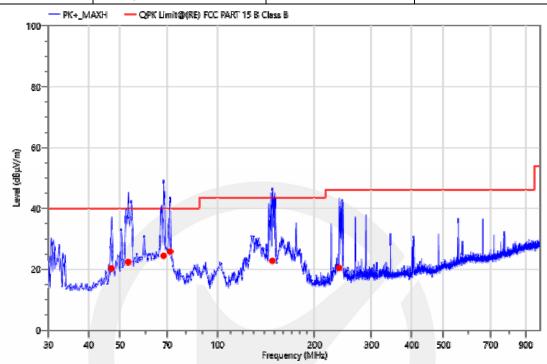
	Project	Information	
Mode:	TX2442	Voltage:	DC 4.5V
Environment:	Temp: 18 ℃; Humi:67%	Engineer:	Chris Fan



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	55.802	55.43	-24.87	30.56	40.00	9.44	QPK	100	V	191.2	PASS
2	60.361	57.84	-25.69	32.15	40.00	7.85	QPK	100	V	269.2	PASS
3	73.068	54.40	-26.43	27.97	40.00	12.03	QPK	100	V	90.0	PASS
4	92.662	51.98	-24.99	26.99	43.50	16.51	QPK	100	V	51.9	PASS
5	128.358	53.31	-27.19	26.12	43.50	17.38	QPK	100	>	178.7	PASS
6	171.717	51.66	-26.17	25.49	43.50	18.01	QPK	100	V	148.9	PASS



	Project	Information	
Mode:	TX2442	Voltage:	DC 4.5V
Environment:	Temp: 18 °C; Humi:67%	Engineer:	Chris Fan



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
1	47.072	43.94	-23.7	20.24	40.00	19.76	QPK	200	Н	0.2	PASS
2	53.086	46.71	-24.36	22.35	40.00	17.65	QPK	100	Н	201.6	PASS
3	68.218	50.60	-26.22	24.38	40.00	15.62	QPK	200	Н	0.2	PASS
4	71.419	52.15	-26.38	25.77	40.00	14.23	QPK	100	Н	201.6	PASS
5	147.952	49.78	-27.05	22.73	43.50	20.77	QPK	200	Η	40.7	PASS
6	237.968	43.32	-22.93	20.39	46.00	25.61	QPK	100	Н	360	PASS



■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Test mode: GFSK Frequency: Channel: 2442MHz

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)		
(MHz)	H/V	PK `	ÁV	PK	AV	PK	AV	
4883.500	V	45.22	30.48	74	54	-28.78	-23.52	
7325.500	V	49.27	34.16	74	54	-24.73	-19.84	
17883.00	V	56.28	41.33	74	54	-17.72	-12.67	
4883.500	Н	49.43	34.29	74	54	-24.57	-19.71	
7326.000	Н	52.44	37.38	74	54	-21.56	-16.62	
17994.00	Н	56.07	40.90	74	54	-17.93	-13.1	

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor +Cable Loss.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



8.3 CONDUCTED EMISSIONS TEST

8.3.1 Applicable Standard

According to FCC Part 15.207(a)

8.3.2 Conformance Limit

Conducted Emission Limit

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.3.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

8.3.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.3.5 Test Results

N/A.



8.4 ANTENNA APPLICATION

8.4.1 Antenna Requirement

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed. such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

FCC CRF Part 15.203

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.4.2 Result

PASS.		
Note: Note:	The E	EUT has 1 antenna: The PCB antenna gain is 0.0 dBi. Antenna use a permanently attached antenna which is not replaceable. Not using a standard antenna jack or electrical connector for antenna replacement The antenna has to be professionally installed (please provide method of installation)
	whic	h in accordance to section 15.203, please refer to the internal photos.

*** End of Report ***



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