

# **Qingdao Richmat Intelligence Technology Inc**

## **FCC Class II Permissive Change Report**

**Report Type:**  
FCC Part 15.249 RF report

**MODEL:**  
HJ RF

**REPORT NUMBER:**  
2505B2104SHA-001

**ISSUE DATE:**  
August 1, 2025

**DOCUMENT CONTROL NUMBER:**  
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## TEST REPORT

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Report no.: 2505B2104SHA-001

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Qingdao, Shandong Province, China.

**Manufacturer:** Qingdao Richmat Intelligence Technology Inc  
NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo,  
Qingdao, Shandong Province, China.

**FCC ID:** 2AJJGHJRF

### SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

**47CFR Part 15 (2024): Radio Frequency Devices (Subpart C)**

**ANSI C63.10 (2020): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices**

### PREPARED BY:

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**TEST REPORT****Revision History**

Report No.	Version	Description	Issued Date
2505B2104SHA-001	Rev. 01	Initial issue of report	August 1, 2025

**TEST REPORT****Measurement Result Summary**

TEST ITEM	FCC REFERENCE	RESULT
Radiated Emissions	15.249 & 15.209	Pass
Power line conducted emission	15.207(a)	Pass
Assigned bandwidth (20dB bandwidth)	15.215(c)	Pass
Antenna requirement	15.203	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

**TEST REPORT****1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product name:	Module
Type/Model:	HJ RF
Description of EUT	The report is C2PC report, the following host models were added. Therefore, host model was tested.
Host models:	Control Box: HJC25Z-0-0, HJC25Z-0-1, they are the same except HJC25Z-0-1 has an extra USB port.
Rating:	Module: DC 3.3V Host: 29V DC, 1.8A
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample No.:	A250708-38-001
Sample received date:	July 8, 2025
Date of test:	July 8, 2025, to July 22, 2025

**1.2 Technical Specification**

Frequency Range:	2405MHz – 2480MHz
Type of Modulation:	FSK
Channel Number:	151 channels
Channel Separation:	0.5 MHz
Antenna Information:	PCB antenna, 0dBi

**TEST REPORT****1.3 Description of Test Facility**

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
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The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

**TEST REPORT**

## 2 TEST SPECIFICATIONS

### 2.1 Standards or specification

47CFR Part 15 (2024)

ANSI C63.10 (2020)

KDB 558074(v05)

### 2.2 Mode of operation during the test

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

Radiated test mode: EUT transmitted signal with PCB antenna.

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)				2405 ~ 2480			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	41	2425	81	2445	121	2465
2	2405.5	42	2425.5	82	2445.5	122	2465.5
3	2406	43	2426	83	2446	123	2466
4	2406.5	44	2426.5	84	2446.5	124	2466.5
5	2407	45	2427	85	2447	125	2467
6	2407.5	46	2427.5	86	2447.5	126	2467.5
7	2408	47	2428	87	2448	127	2468
8	2408.5	48	2428.5	88	2448.5	128	2468.5
9	2409	49	2429	89	2449	129	2469
10	2409.5	50	2429.5	90	2449.5	130	2469.5
11	2410	51	2430	91	2450	131	2470
12	2410.5	52	2430.5	92	2450.5	132	2470.5
13	2411	53	2431	93	2451	133	2471
14	2411.5	54	2431.5	94	2451.5	134	2471.5
15	2412	55	2432	95	2452	135	2472
16	2412.5	56	2432.5	96	2452.5	136	2472.5
17	2413	57	2433	97	2453	137	2473
18	2413.5	58	2433.5	98	2453.5	138	2473.5
19	2414	59	2434	99	2454	139	2474
20	2414.5	60	2434.5	100	2454.5	140	2474.5
21	2415	61	2435	101	2455	141	2475
22	2415.5	62	2435.5	102	2455.5	142	2475.5
23	2416	63	2436	103	2456	143	2476
24	2416.5	64	2436.5	104	2456.5	144	2476.5
25	2417	65	2437	105	2457	145	2477

**TEST REPORT**

26	2417.5	66	2437.5	106	2457.5	146	2477.5
27	2418	67	2438	107	2458	147	2478
28	2418.5	68	2438.5	108	2458.5	148	2478.5
29	2419	69	2439	109	2459	149	2479
30	2419.5	70	2439.5	110	2459.5	150	2479.5
31	2420	<b>71</b>	<b>2440</b>	111	2460	<b>151</b>	<b>2480</b>
32	2420.5	72	2440.5	112	2460.5	-	-
33	2421	73	2441	113	2461	-	-
34	2421.5	74	2441.5	114	2461.5	-	-
35	2422	75	2442	115	2462	-	-
36	2422.5	76	2442.5	116	2462.5	-	-
37	2423	77	2443	117	2463	-	-
38	2423.5	78	2443.5	118	2463.5	-	-
39	2424	79	2444	119	2464	-	-
40	2424.5	80	2444.5	120	2464.5	-	-

**2.3 Test software list**

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

**2.4 Test peripherals list**

Item No.	Name	Band and Model	Description
1	AC/DC Adapter	PS5-A29018-1	100-240V AC, 50/60Hz

**2.5 Test environment condition:**

Test items	Temperature	Humidity
Radiated emission	25°C	56% RH
Assigned bandwidth (20dB bandwidth)	25°C	56% RH
Power line conducted emission	/	/

**TEST REPORT**
**2.6 Instrument list**

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESR7	EC 6194	2026-02-17
<input checked="" type="checkbox"/>	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2026-01-14
<input checked="" type="checkbox"/>	A.M.N.	R&S	ESH2-Z5	EC 3119	2026-07-22
<input checked="" type="checkbox"/>	Shielded room	Zhongyu	-	EC 2838	2026-01-09
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESIB 26	EC 3045	2025-08-18
<input checked="" type="checkbox"/>	Test Receiver	R&S	ESR	EC 6501	2025-09-10
<input checked="" type="checkbox"/>	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2025-09-11
<input checked="" type="checkbox"/>	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EC 6402	2026-03-18
<input checked="" type="checkbox"/>	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2025-12-03
<input checked="" type="checkbox"/>	Horn antenna	Tonscend	bha9120d	EC 6432-2	2026-03-19
<input checked="" type="checkbox"/>	Horn antenna	ETS	3116c	EC 5955	2025-08-14
<input checked="" type="checkbox"/>	Semi-anechoic chamber	Albatross	-	EC 3048	2026-07-11
RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030B	EC 6078	2026-03-17
<input checked="" type="checkbox"/>	Coaxial cable	ETS	/	/	2026-03-04
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Therom-Hygrograph	Testo	175h1	EC 6640	2025-08-29
<input checked="" type="checkbox"/>	Therom-Hygrograph	Testo	175h1	EC 6641	2025-08-29

**TEST REPORT****2.7 Measurement uncertainty**

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Maximum peak output power	± 0.74dB
Radiated Emissions in restricted frequency bands below 1GHz	± 4.90dB
Radiated Emissions in restricted frequency bands above 1GHz	± 5.02dB
Emission outside the frequency band	± 2.89dB
Occupied Channel Bandwidth	± 0.88 %
Power line conducted emission	± 3.19dB

**TEST REPORT**

### 3 Radiated emission

Test result: Pass

#### 3.1 Limit

Fundamental Frequency (MHz)	Fundamental limit (dBuV/m)	Harmonic limit (dBuV/m)
<input type="checkbox"/> 902 - 928	94	54
<input checked="" type="checkbox"/> 2400 - 2483.5	94	54
<input type="checkbox"/> 5725 - 5875	94	54
<input type="checkbox"/> 24000 - 24250	108	68

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits:

Frequencies (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

#### 3.2 Measurement Procedure

For Radiated emission below 30MHz:

- The EUT was placed on the top of a rotating table 0.8 meters(0.1 meters for floor-standing device) above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, the lowest height of the magnetic antenna was 1 m above the ground.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

**NOTE:**

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

**TEST REPORT****For Radiated emission above 30MHz:**

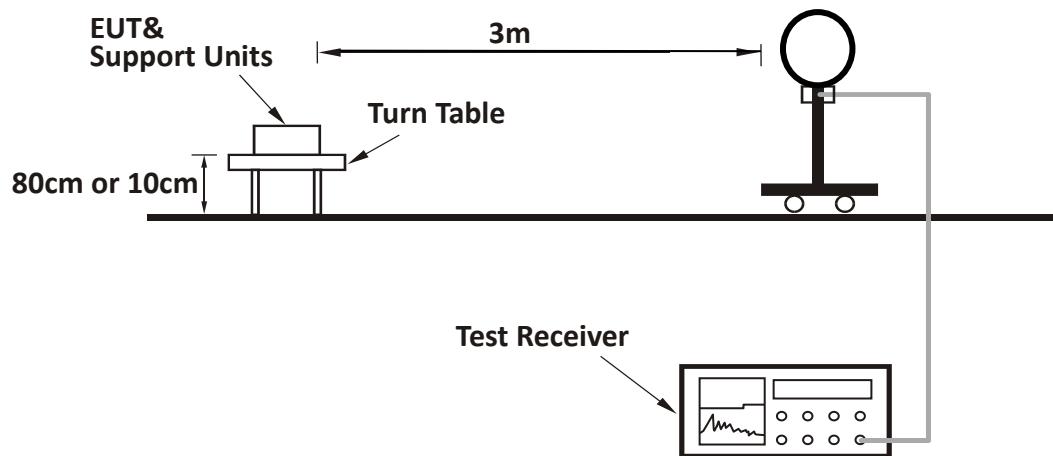
- a) The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) or 0.1 meters (for floor-standing device) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Note:**

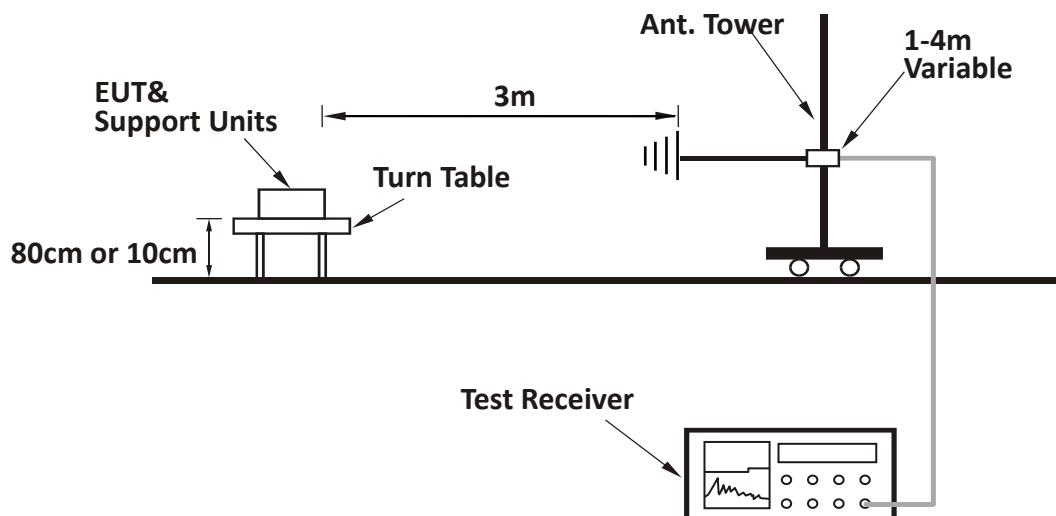
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or  $3 \times RBW$  (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

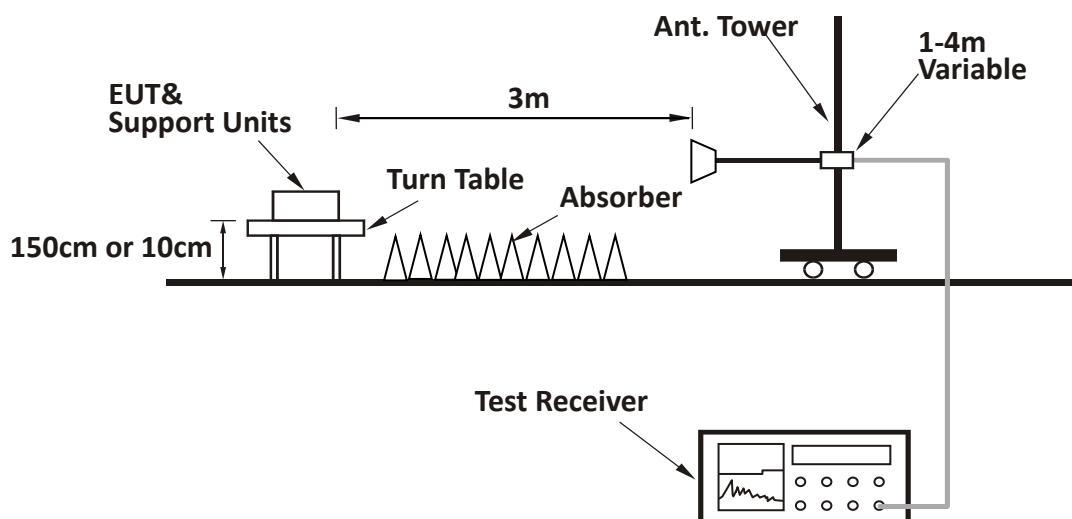
**TEST REPORT****3.3 Test Configuration**

For Radiated emission below 30MHz:



For Radiated emission 30MHz to 1GHz:



**TEST REPORT****For Radiated emission above 1GHz:**

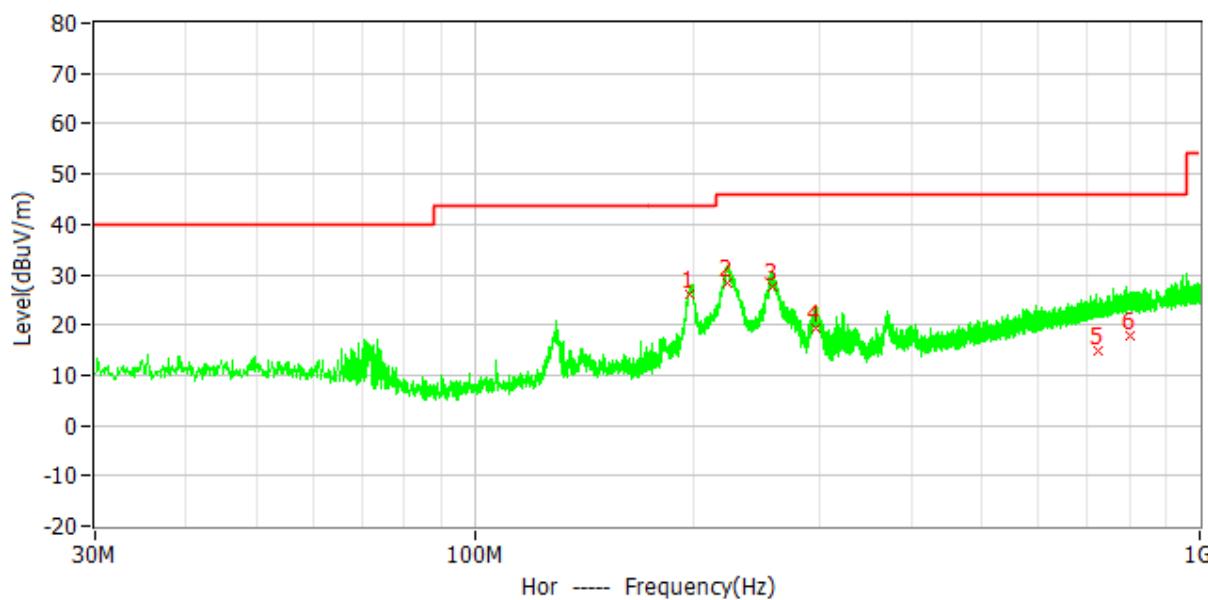
**TEST REPORT****3.4 Test Results of Radiated Emissions**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

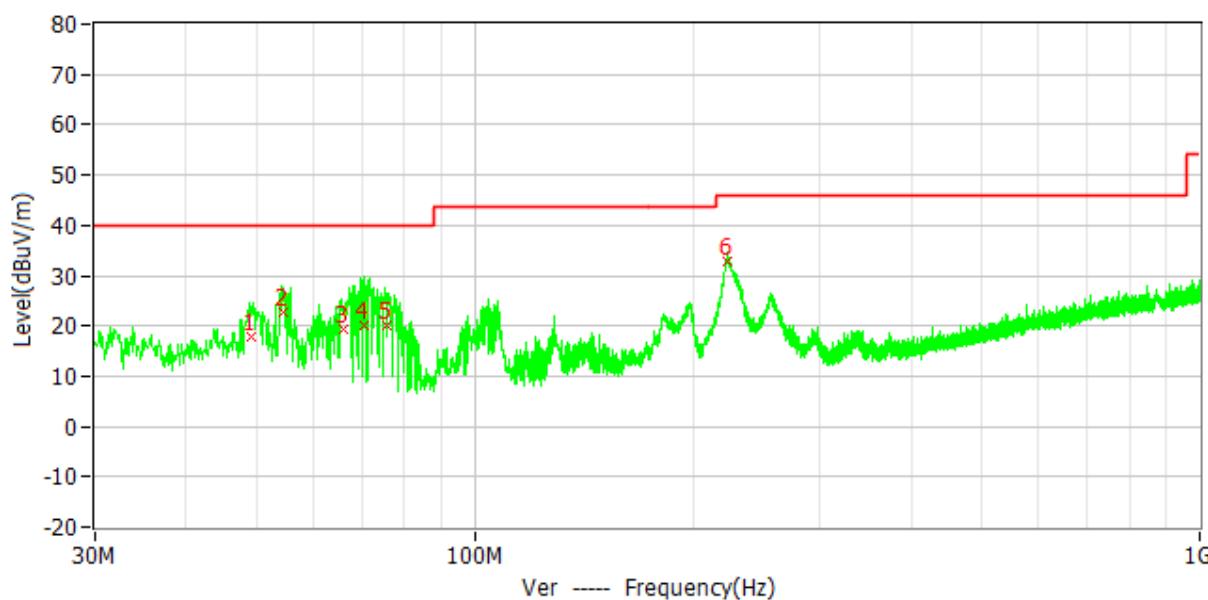
The worst waveform from 30MHz to 1000MHz is listed as below:

Host: HJC25Z-0-0

Horizontal



Vertical



**TEST REPORT****Test data below 1GHz**

Antenna	Frequency (MHz)	Limit (dBuV/m)	Corrected Reading (dBuV/m)	Margin (dB)	Correct Factor (dB/m)	Detector
H	198.372	43.50	25.90	17.60	11.60	QP
H	223.300	46.00	28.30	17.70	12.60	QP
H	257.682	46.00	27.70	18.30	13.90	QP
H	296.181	46.00	19.40	26.60	15.30	QP
H	726.163	46.00	14.80	31.20	24.50	QP
H	799.594	46.00	18.00	28.00	25.80	QP
V	49.276	40.00	17.80	22.20	14.50	QP
V	54.535	40.00	22.70	17.30	14.30	QP
V	65.919	40.00	19.30	20.70	13.30	QP
V	70.307	40.00	20.10	19.90	12.50	QP
V	75.696	40.00	20.00	20.00	11.20	QP
V	223.444	46.00	32.70	13.30	12.60	QP

## TEST REPORT

## Test result above 1GHz:

CH	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H/V	2405.00	81.60	32.60	114.00	32.40	PK
	H/V	2405.00	81.60	32.60	94.00	12.40	AV
	H/V	2390.00	37.30	32.60	74.00	36.70	PK
	H/V	2390.00	26.00	32.60	54.00	28.00	AV
	H/V	4810.00	42.90	-12.90	74.00	31.10	PK
	H/V	4810.00	22.80	-12.90	54.00	31.20	AV
M	H/V	2440.00	81.76	32.70	114.00	32.24	PK
	H/V	2440.00	81.76	32.70	94.00	12.24	AV
	H/V	4880.00	43.14	-12.40	74.00	30.86	PK
	H/V	4880.00	22.72	-12.40	54.00	31.28	AV
H	H/V	2480.00	81.90	32.90	114.00	32.10	PK
	H/V	2480.00	<b>81.90</b>	32.90	94.00	12.10	AV
	H/V	2483.50	42.35	32.90	74.00	31.65	PK
	H/V	2483.50	32.60	32.90	54.00	21.40	AV
	H/V	4960.00	43.19	-12.20	74.00	30.81	PK
	H/V	4960.00	22.65	-12.20	54.00	31.35	AV

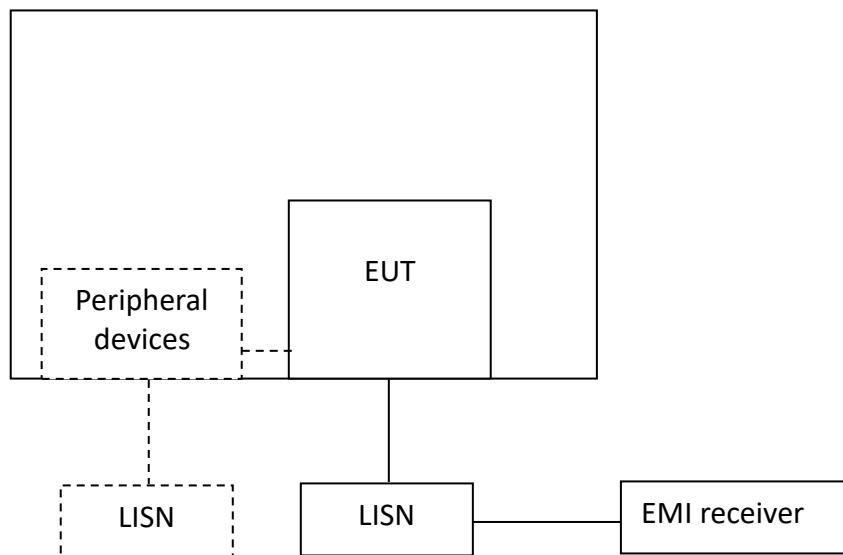
Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.  
 2. Corrected Reading = Original Receiver Reading + Correct Factor  
 3. Margin = Limit - Corrected Reading  
 4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,  
 Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,  
 Limit = 40.00dBuV/m.  
 Then Correct Factor =  $30.20 + 2.00 - 32.00 = 0.20$ dB/m;  
 Corrected Reading =  $10\text{dBuV} + 0.20\text{dB/m} = 10.20\text{dBuV/m}$ ;  
 Margin =  $40.00\text{dBuV/m} - 10.20\text{dBuV/m} = 29.80\text{dB}$ .

**TEST REPORT****4 Power line conducted emission****Test result:** Pass**4.1 Limit**

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	QP	AV
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 frequency.

**4.2 Test Configuration**

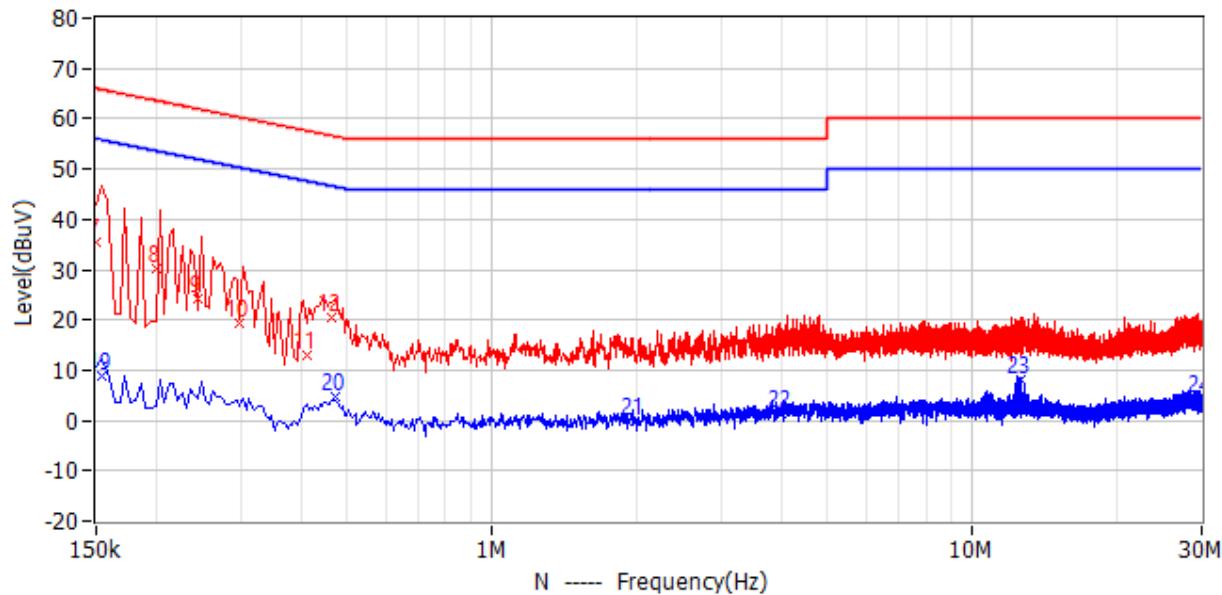
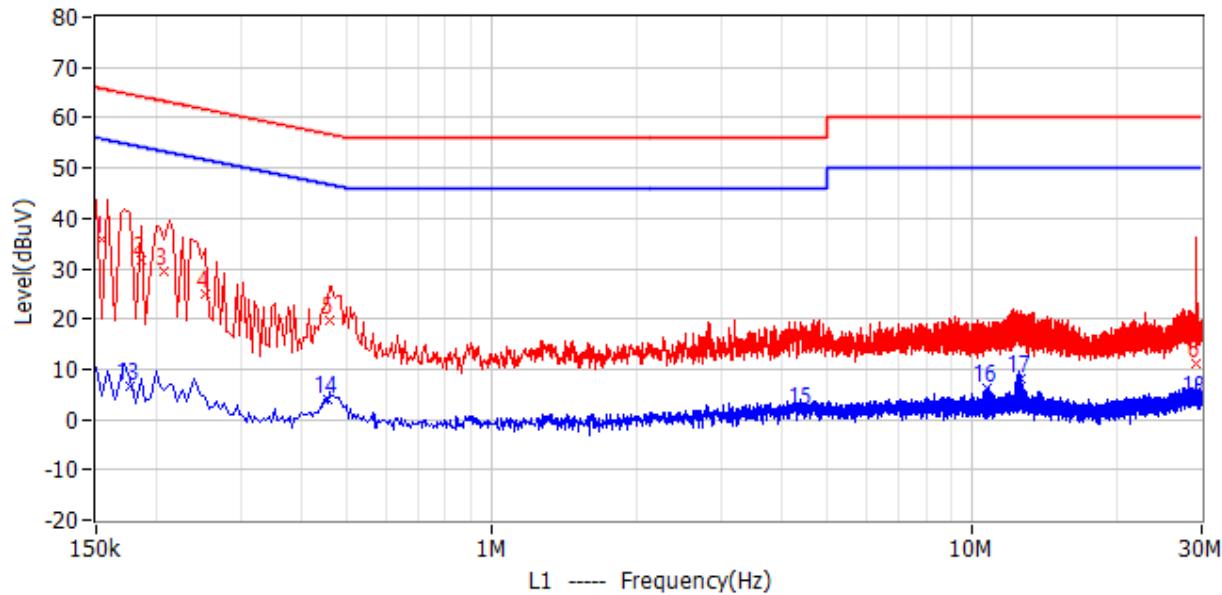
## TEST REPORT

### 4.3 Measurement Procedure

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

**TEST REPORT****4.4 Test Results of Power line conducted emission****Host: HJC25Z-0-0**

**TEST REPORT**
**Test Data:**

No.	Frequency	Limit dBuV	Level dBuV	Delta dB	Reading dBuV	Factor dB	Detector	Phase
1	154.500kHz	65.75	35.80	-29.95	25.60	10.20	QP	L1
2	186.000kHz	64.21	31.83	-32.38	21.63	10.20	QP	L1
3	208.500kHz	63.26	29.43	-33.83	19.23	10.20	QP	L1
4	253.500kHz	61.64	24.87	-36.77	14.67	10.20	QP	L1
5	460.500kHz	56.68	19.59	-37.09	9.39	10.20	QP	L1
6	29.135MHz	60.00	10.98	-49.02	-1.12	12.10	QP	L1
7	150.000kHz	66.00	35.45	-30.55	25.35	10.10	QP	N
8	199.500kHz	63.63	30.12	-33.51	20.02	10.10	QP	N
9	244.500kHz	61.94	24.32	-37.62	14.22	10.10	QP	N
10	298.500kHz	60.28	19.25	-41.03	9.15	10.10	QP	N
11	411.000kHz	57.63	12.97	-44.66	2.77	10.20	QP	N
12	465.000kHz	56.60	20.51	-36.09	10.31	10.20	QP	N
13	177.000kHz	54.63	6.46	-48.17	-3.74	10.20	CAV	L1
14	456.000kHz	46.77	3.90	-42.87	-6.30	10.20	CAV	L1
15	4.421MHz	46.00	1.78	-44.22	-8.82	10.60	CAV	L1
16	10.716MHz	50.00	6.21	-43.79	-4.59	10.80	CAV	L1
17	12.656MHz	50.00	8.20	-41.80	-2.80	11.00	CAV	L1
18	29.220MHz	50.00	4.00	-46.00	-8.10	12.10	CAV	L1
19	154.500kHz	55.75	8.93	-46.82	-1.17	10.10	CAV	N
20	474.000kHz	46.44	4.74	-41.70	-5.46	10.20	CAV	N
21	1.982MHz	46.00	-0.16	-46.16	-10.66	10.50	CAV	N
22	4.020MHz	46.00	1.45	-44.55	-9.15	10.60	CAV	N
23	12.656MHz	50.00	8.04	-41.96	-2.96	11.00	CAV	N
24	29.909MHz	50.00	4.23	-45.77	-7.87	12.10	CAV	N

Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically.

2. Level = Original Receiver Reading + Factor

3. Delta = Level- Limit

4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

**TEST REPORT**

## 5 Assigned bandwidth (20dB bandwidth)

**Test result:** Pass

### 5.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

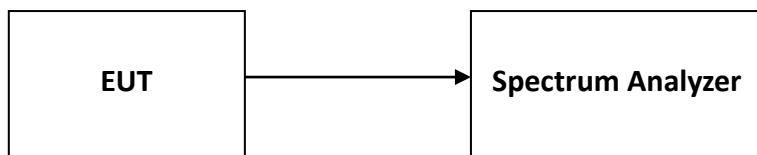
### 5.2 Measurement Procedure

The 20dB Bandwidth is measured using the Spectrum Analyzer.

Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 2 channels (lowest and highest channel).

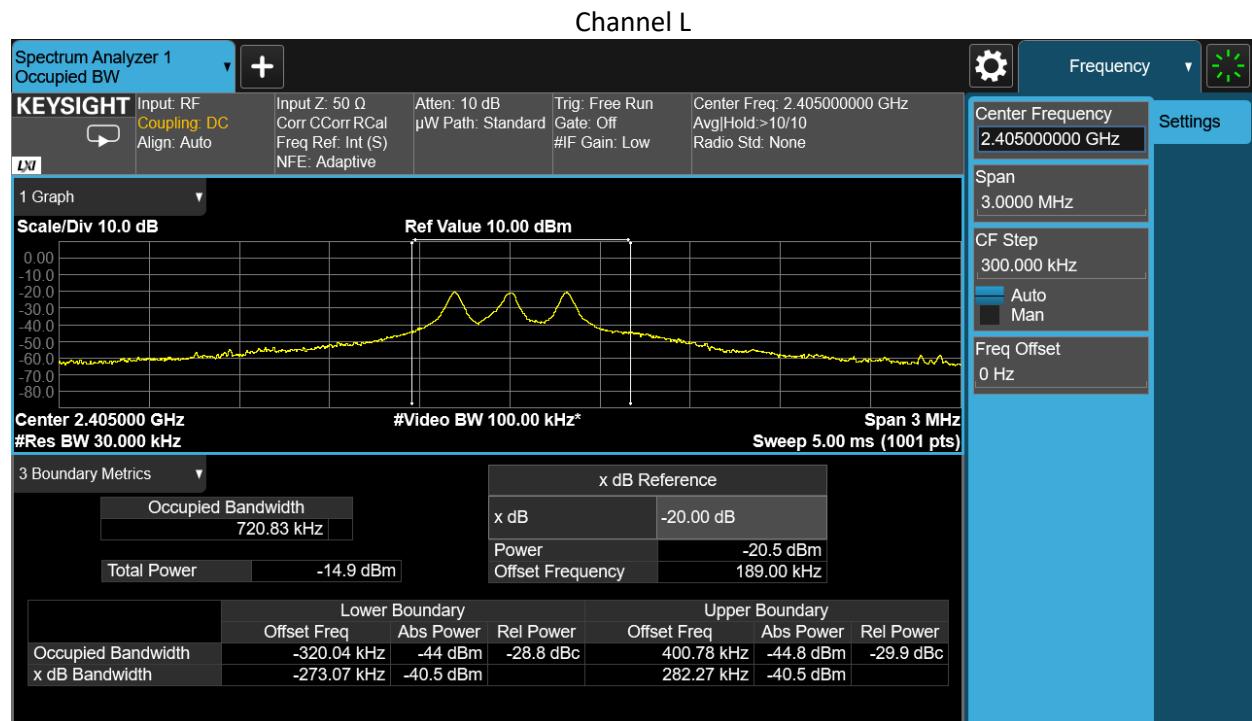
### 5.3 Test Configuration



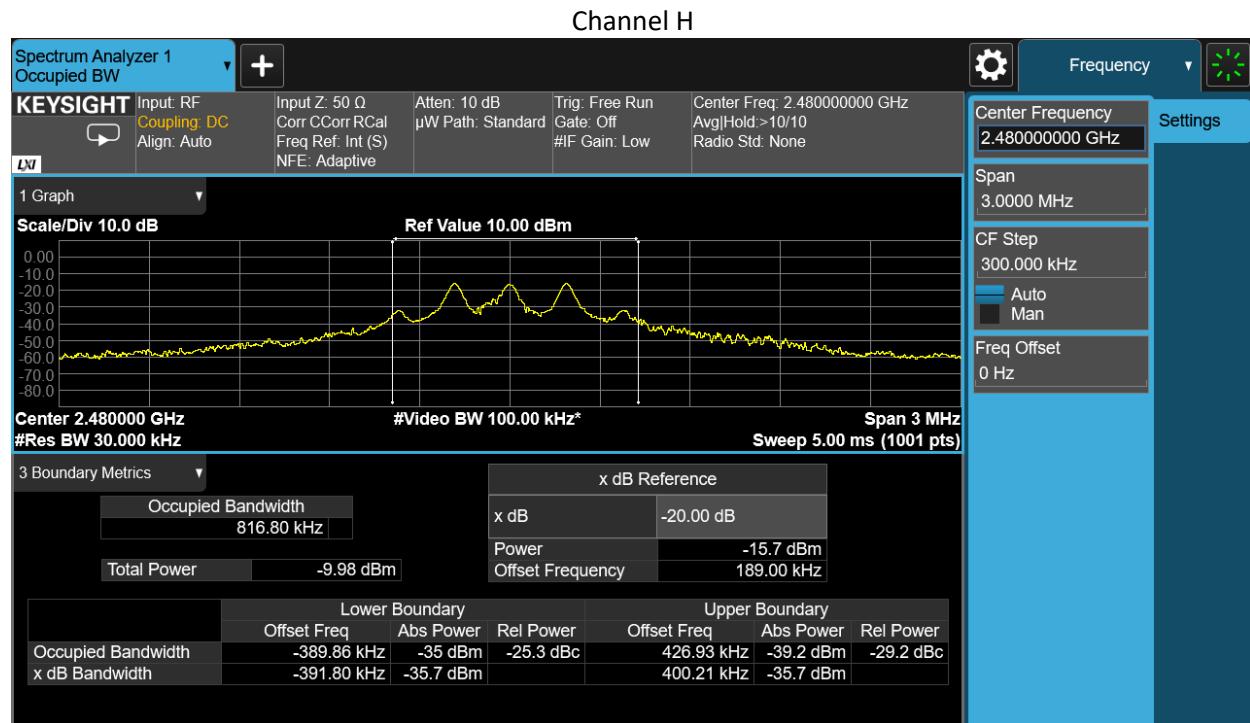
## TEST REPORT

## 5.4 The results

Test Mode	Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	F <sub>L</sub> at 20dB BW (MHz)	F <sub>H</sub> at 20dB BW (MHz)
/	2405	0.5553	0.7208	>2400	/
	2480	0.7920	0.8168	/	<2483.5
Limit	N/A		N/A	F <sub>L</sub> >2400	F <sub>H</sub> <2483.5
<b>Result</b>	<b>Complied</b>				



# TEST REPORT



**TEST REPORT**

## 6 Antenna requirement

**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.

**Result:**

EUT uses PCB antenna to the intentional radiator, so it can comply with the provisions of this section.

\*\*\*\*\* END \*\*\*\*\*