

	<b>TEST REPORT</b>		 TC-7575
	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SEC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 1 of 22	

## Test Report-2.4G BLE

### Applicant's Details:

Applicant Name & Address:	ORNATE QUALITY SERVICES PRIVATE LIMITED
	HOUSE NO. 8, GALI NO. 3, MOLARBAND EXTN, BADARPUR, SOUTH DELHI, DELHI - 110044
Manufacturer's Name & Address:	Ample Smart (Guangzhou) Co., Ltd
	ROOM 611, MINJIE PLAZA, SHUIXI ROAD NO. 195 , HUANGPU DISTRICT, GUANGZHOU, CHINA, 510530

### Product Details:

Product Name:	Smart Watch
Model No.:	KW1401
Series Model:	S3
Brand Name:	
Max RF Output Burst Power(watt):	0.0016
Antenna Gain(dBi):	0.5
Max E.I.R.P(dBm):	2.29
Power Density(dBm/MHz)	1.74
Applicable standards:	ETSI EN 300 328 V2.2.2(2019-07)

### Testing Lab Details:

Date of Receipt:	02/12/2023
Report No.:	SETC23336014
Test Start Date:	02/12/2023
Test End Date:	20/12/2023
ULR:	TC757523000003043F
Date of Issue:	20/12/2023
<b>Test laboratory :</b>	<b>SWASTIK ELECTRONICS TESTING CENTRE</b>

This device has been tested and found to comply with the stated standard(s), and tests results indicated in the test report and are applicable only to the tested sample identified in the report.



<b>Tested by: ABHAY KUMAR VERMA</b>	<b>Approved by: PRINCE NIGAM</b>
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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 2 of 22	

## Contents

Sr. No.	Content	Page No.
<b>1.0</b>	<b>Test Summary</b>	<b>3</b>
1.1	Compliance with ETSI EN 300 328 V2.2.2 (2019-07)	<b>3</b>
1.2	Measurement Uncertainty	<b>4</b>
<b>2</b>	<b>Test Facility</b>	<b>5</b>
2.1	Deviation from Standard	<b>5</b>
2.2	Abnormalities from Standard Conditions	<b>5</b>
<b>3.0</b>	<b>General Information</b>	<b>6</b>
3.1	General Description of EUT	<b>6</b>
<b>4.0</b>	<b>Radio Technical Requirements Specification in EN 300 328</b>	<b>7</b>
4.1	Transmitter Conditions	<b>7</b>
4.2	Test conditions	<b>7</b>
4.2.1	Normal conditions	<b>7</b>
4.2.2	Extreme conditions	<b>7</b>
4.3	Test frequencies	<b>8</b>
<b>5.0</b>	<b>Transmitter Requirements</b>	<b>9</b>
5.1	RF Output Power	<b>9</b>
5.2	Power Spectral Density	<b>10</b>
5.3	Occupied Channel Bandwidth	<b>12</b>
5.4	Transmitter unwanted emissions in the out-of-band domain	<b>14</b>
5.5	Transmitter unwanted emissions in the spurious domain	<b>16</b>
5.6	Receiver spurious emissions	<b>19</b>
<b>6.0</b>	<b>Photographs</b>	<b>22</b>



Page

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	<b>TEST REPORT</b>		 TC-7575
	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 3 of 22	

## 1 Test Summary

### 1.1 Compliance with ETSI EN 300 328 V2.2.2 (2019-07)



No.	Description of Test Item	Basic Standard	Results
<b>Transmitter Parameters</b>			
1	RF Output Power	EN300328 clause 4.3.2.2	Pass
2	Power spectral density	EN300328 clause 4.3.2.3	Pass
3	Occupied Channel Bandwidth	EN300328 clause 4.3.2.7	Pass
4	Transmitter unwanted emissions in the out-of-band domain	EN300328 clause 4.3.2.8	Pass
5	Transmitter unwanted emissions in the spurious domain	EN300328 clause 4.3.2.9	Pass
<b>Receiver Parameters</b>			
6	Receiver spurious emissions	EN300328 clause 4.3.2.10	Pass
EN 300 328: the detail version is ETSI EN 300 328 V2.2.2 (2019-07)in the whole report.			
Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency.			

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	<b>TEST REPORT</b>		 TC-7575
	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 4 of 22	

## 1.2 Measurement Uncertainty



No	Item	Uncertainty(±)
1	RF Output power,conducted	±1.9 dBm
2	Power spectral density,conducted	± 1.8dBm/MHz
3	Occupied Channel Bandwidth	± 1.89 MHz
4	Transmitter unwanted emissions in the out-of-band domain	± 2.3 dBm
5	Transmitter unwanted emissions in the spurious domain	±2.3 dBm
6	Receiver spurious emissions	± 1.9 dBm

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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 5 of 22	

## 2 Test Facility

The test facility is recognized, certified by NABL.

### 2.1 Deviation from Standard

None

### 2.2 Abnormalities from Standard Conditions



None

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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 6 of 22	

### 3 General Information

#### 3.1 General Description of EUT



Applicant Name :	ORNATE QUALITY SERVICES PRIVATE LIMITED
Applicant Address:	HOUSE NO. 8, GALI NO. 3, MOLARBAND EXTN, BADARPUR, SOUTH DELHI, DELHI - 110044
Manufacturer:	Ample Smart (Guangzhou) Co., Ltd
Manufacturer Address:	ROOM 611, MINJIE PLAZA, SHUIXI ROAD NO. 195 , HUANGPU DISTRICT, GUANGZHOU, CHINA, 510530
EUT Name:	Smart Watch
Model No:	KW1401
Series Model:	S3
Brand Name:	
Frequency Range:	2400-2483.5 MHz
Operation frequency:	2402 MHz to 2480 MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Modulation Technology:	FHSS
Antenna Gain:	0.5 dBi
BLE Version:	V4.2 BLE
Input Rating :	DC 5V, 1A
Battery:	3.7V DC
Note:	
1.	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 7 of 22	

## 4 Radio Technical Requirements Specification in EN 300 328

### 4.1 Transmitter Conditions

Item	EUT Type
1	stand-alone radio equipment with or without their own control provisions;
2	plug-in radio devices intended for use with or within a variety of host systems, e.g. personal computers,hand-held terminals, etc.;
3	plug-in radio devices intended for use within combined equipment, e.g. cable modems, set-top boxes, accesspoints, etc.;
4	Combined equipment or a combination of a plug-in radio device and a specific type of host equipment.

<b>Modulation</b>
FHSS

EUT belongs to item 1 with FHSS modulation.

### Test conditions

#### 4.2.1 Normal conditions

Ambient:	Temperature:	+15°C to +35°C
	Relative humidity:	20% to 75%
	Press:	1010 mbar

#### 4.2.2 Extreme conditions



Temperature:	-20°C to +55°C
Power Supply:	3.7V DC

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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 8 of 22	

### 4.3 Test frequencies

EUT channels and frequencies list:

Description of Channel:			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2456
01	2404	28	2458
02	2406	29	2460
03	2408	30	2462
04	2410	31	2464
05	2412	32	2466
06	2414	33	2468
07	2416	34	2470
08	2418	35	2472
09	2420	36	2474
10	2422	37	2476
11	2424	38	2478
12	2426	39	2480
13	2428		
14	2430		
15	2432		
16	2434		
17	2436		
18	2438		
19	2440		
20	2442		
21	2444		
22	2446		
23	2448		
24	2450		
25	2452		
26	2454		

Test frequencies are the lowest channel: 0 channel(2402MHz), middle channel: 20 channel(2442 MHz) and highest channel: 39 channel(2480 MHz)



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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 9 of 22	

Discipline:- Electronic Testing

Group:- Miscellaneous Products

## 5 Transmitter Requirements

### 5.1 RF Output Power

#### 5.1.1 Limit(ETSI EN 300 328, V2.2.2 (2019-07)Clause 4.3.1.2.3)

##### For non-adaptive frequency hopping systems

The maximum RF output power for non-adaptive Frequency Hopping equipment, shall be declared by the supplier. The maximum RF output power for this equipment shall be equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20dBm.

##### For adaptive frequency hopping systems

The maximum RF output power for adaptive Frequency Hopping equipment shall be equal to or less than 20dBm.

#### 5.1.2 TEST SETUP

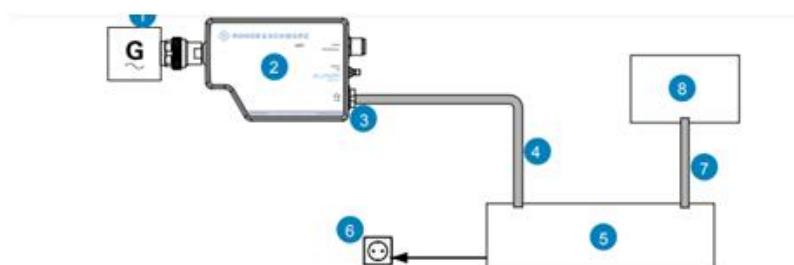


Figure 3-5: Setup with a PoE injector



- 1 = Signal source
- 2 = LAN power sensor
- 3 = RJ-45 Ethernet connector
- 4, 7 = RJ-45 Ethernet cable
- 5 = PoE injector
- 6 = AC supply
- 8 = Controlling host

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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 10 of 22	

### 5.1.3 Test record

Normal mode:

Measurement Conditions		Test result (dBm)		
Temperature (°C)	Voltage (V DC)	2402 MHz	2442 MHz	2480 MHz
T = -20	V <sub>nom</sub> = 3.7	1.30	1.58	<b>1.79</b>
T = +25	V <sub>nom</sub> = 3.7	1.43	1.53	1.78
T = +55	V <sub>nom</sub> = 3.7	1.28	1.67	1.64
Max RF Output Burst Power(dBm):		<b>1.79</b>		
Antenna Gain(dBi)		<b>0.5</b>		
Max E.I.R.P(dBm)		<b>2.29</b>		
Max E.I.R.P Limit (dBm) as per GSR 45(e)		<b>36</b>		
Test Result (Pass/Fail)		<b>PASS</b>		

Note:E.I.R.P=Max RF Output Burst Power+ Antenna Gain

## 5.2 Power Spectral Density

### 5.2.1 Limit(ETSI EN 300 328, V2.2.2/2019-07 Clause 4.3.2.3.3)



Power Spectral Density	
Condition	Limit
For equipment using wide band modulations other than FHSS	≤10 dBm/MHz

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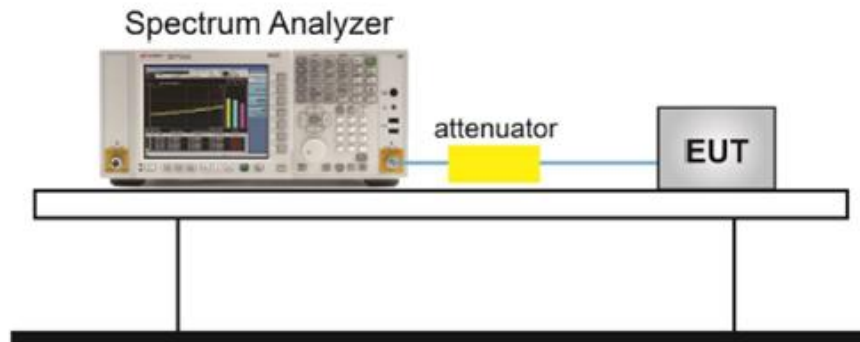
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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 11 of 22	

### 5.2.2 TEST SETUP



### 5.2.3 Test result



CHANNEL	CHANNEL FREQUENCY (MHz)	POWER DENSITY (dBm/MHz)	LIMIT (dBm/MHz)	PASS/FAIL
0	2402.00	1.66	10	PASS
20	2442.00	1.68	10	PASS
39	2480.00	1.74	10	PASS

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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 12 of 22	

## 5.3 Occupied Channel Bandwidth

### 5.3.1 Limit (ETSI EN 300 328, V2.2.2 (2019-07) Clause 4.3.1.8.3)

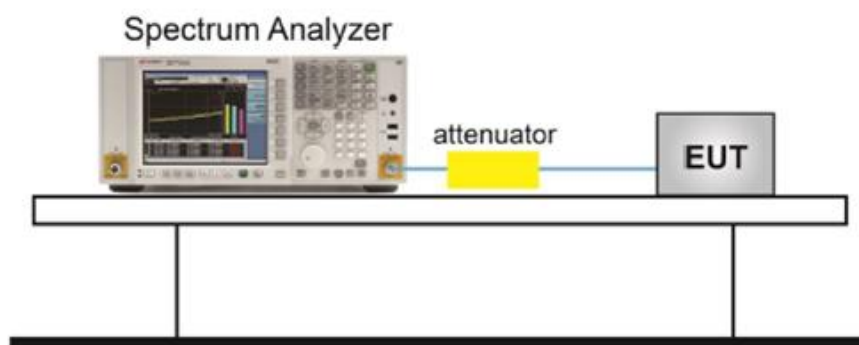
For non-adaptive Frequency Hopping equipment with E.I.R.P greater than 10dBm, the

Occupied Channel Bandwidth for every occupied hopping frequency shall be equal to or less than the value declared by the supplier. This declared value shall not be greater than 5 MHz.

5.3.4 Test result

Remark: These measurements shall only be performed at normal test conditions.

### 5.3.2 TEST SETUP



### 5.3.3 Test result

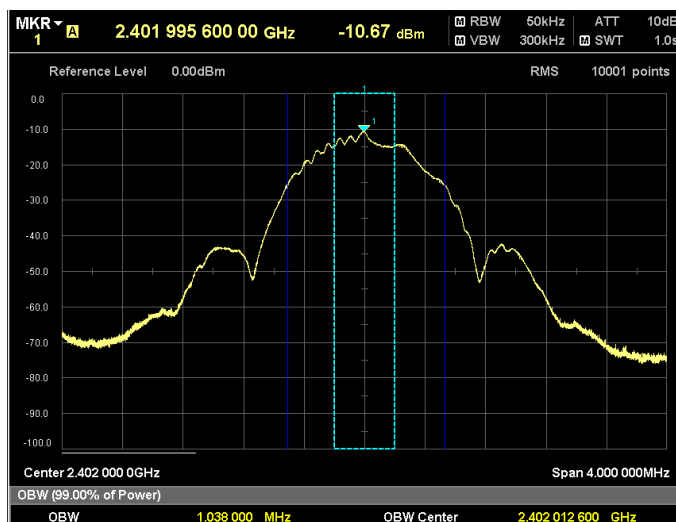
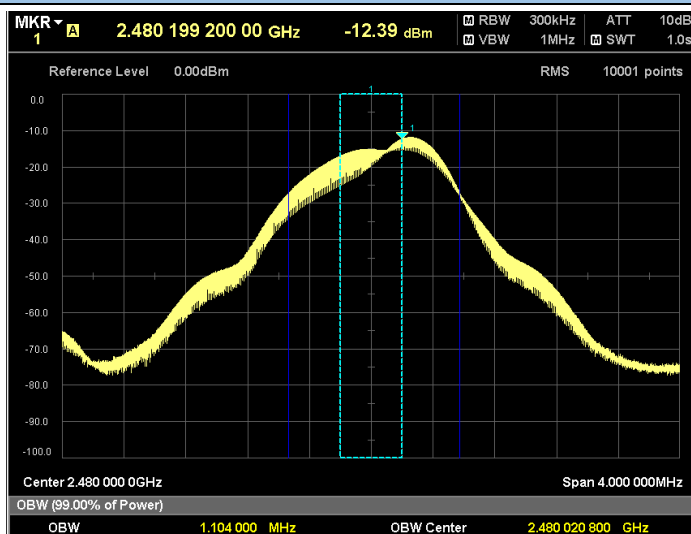
Channel no.	Frequency (MHz)	99% Bandwidth (MHz)	Limit	Result
00	2402	1.0380	Within the band 2400MHz - 2483.5MHz	Pass
39	2480	1.1040		Pass



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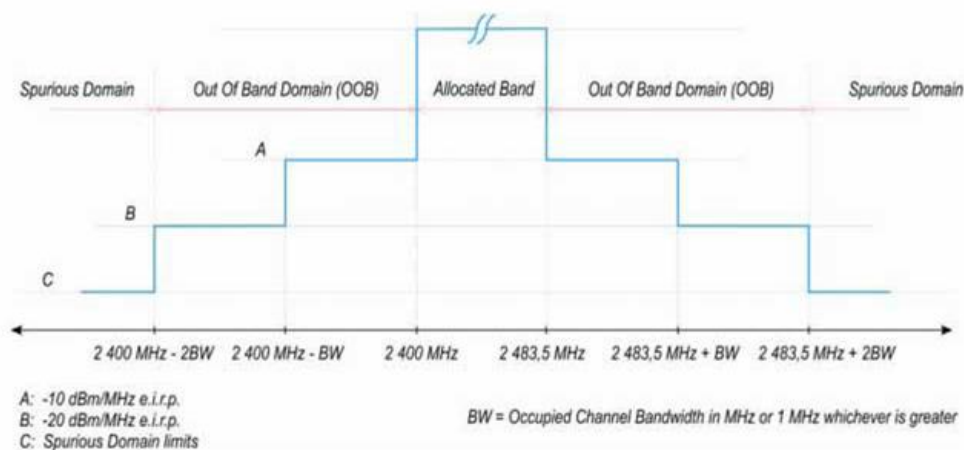
**LOW CH**

**HIGH CH**


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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 14 of 22	

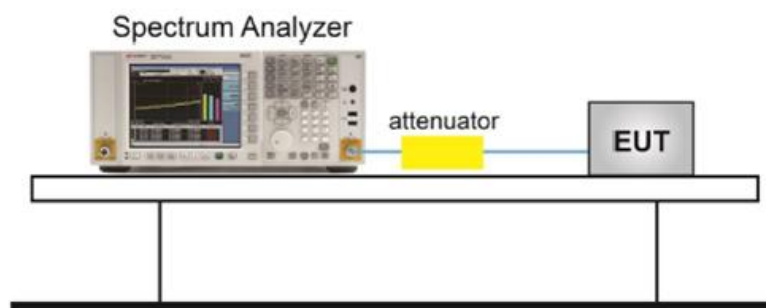
## 5.4 Transmitter unwanted emissions in the out-of-band domain

### 5.4.1 Limit(ETSI EN 300 328V2.2.2 (2019-07)Clause 4.3.1.9.3)

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask.



### 5.4.2 TEST SETUP





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	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 15 of 22	

### 5.4.3 Test result

#### Mode 1:DH5

Frequency (MHz)	Test Conditions (°C)	Max measured Values (dBm/MHz)	Limit (dBm/MHz)
2400–2BW~ 2400-BW	25	-45.98	-20
2400–BW~2400	25	-46.54	-10
2483.5~ 2483.5+BW	25	-46.66	-10
2483.5+BW~ 2483.5+2BW	25	-45.98	-20

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## 5.5 Transmitter unwanted emissions in the spurious domain

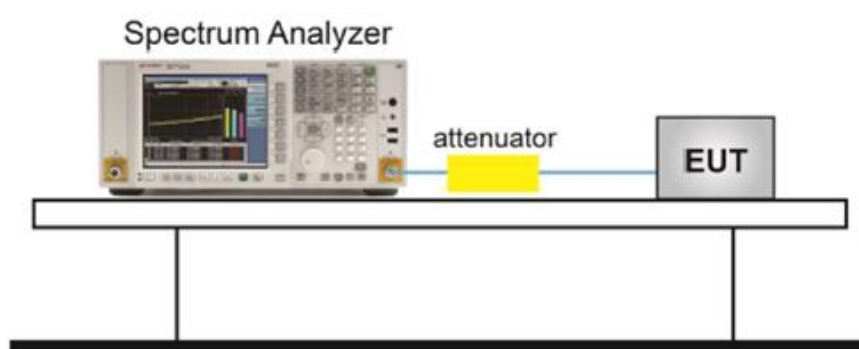
### 5.5.1 Limit(ETSI EN 300328V2.2.2(2019-07)Clause 4.3.1.10.3)

The transmitter unwanted emissions in the spurious domain shall not exceed the values given in table 1.



**Table 1: Transmitter limits for spurious emissions**

Frequency range	Maximum power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 694 MHz	-54 dBm	100 kHz
694 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

### 5.5.2 TEST SETUP

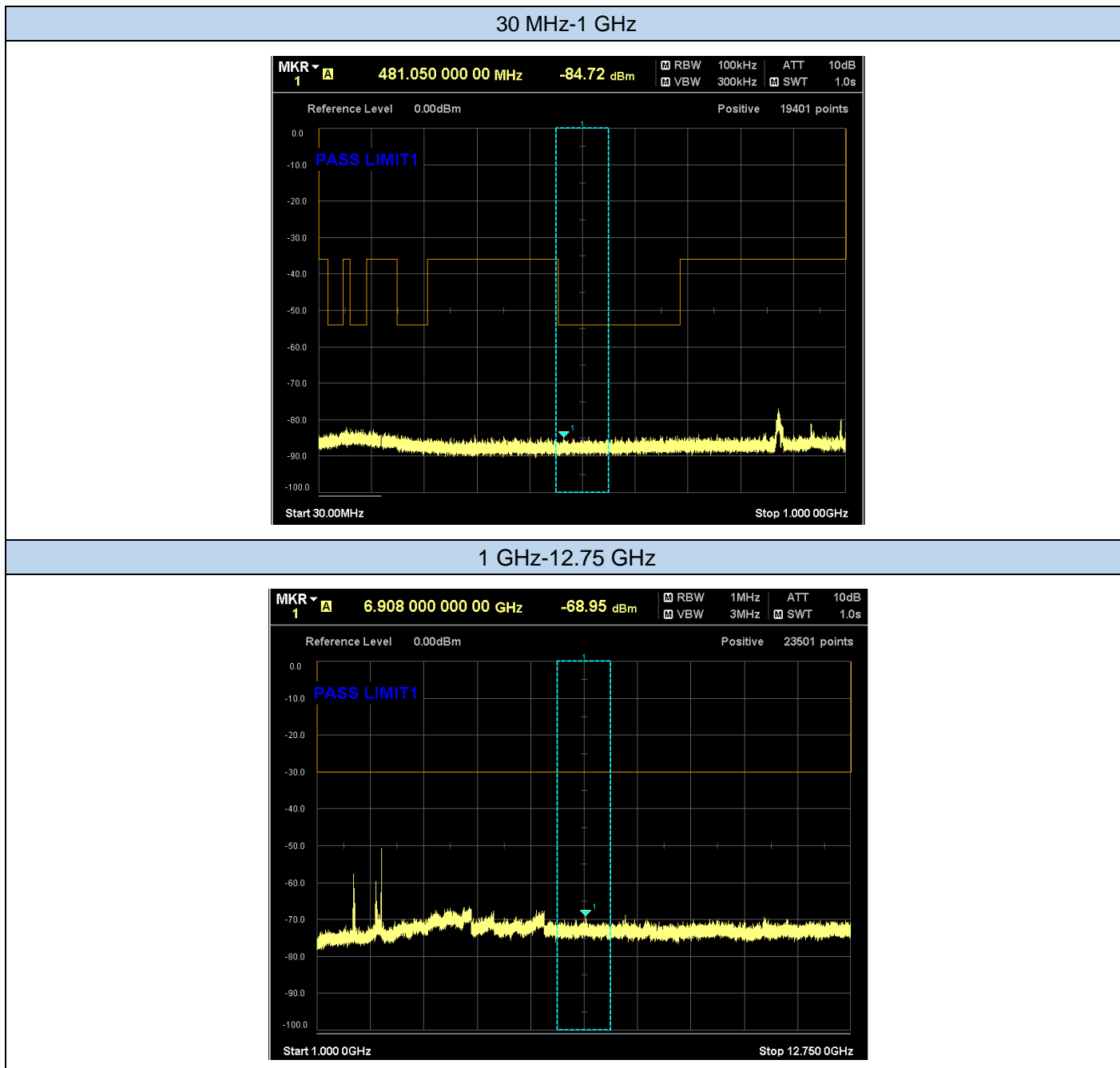




	<b>TEST REPORT</b>		 TC-7575
	<b>ETSI EN 300 328 V2.2.2 (2019-07)</b>		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 17 of 22	

### 5.5.3 Test result(Conducted measurement)

Low CH

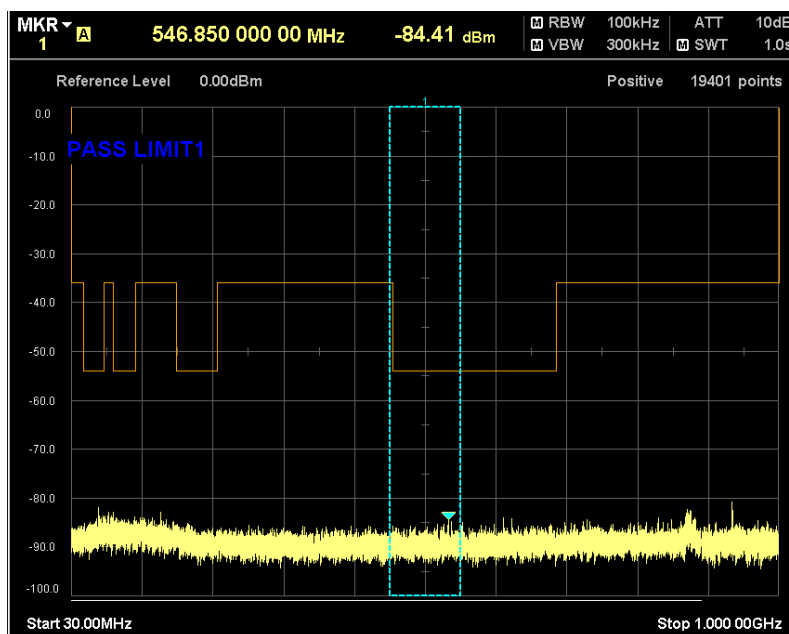
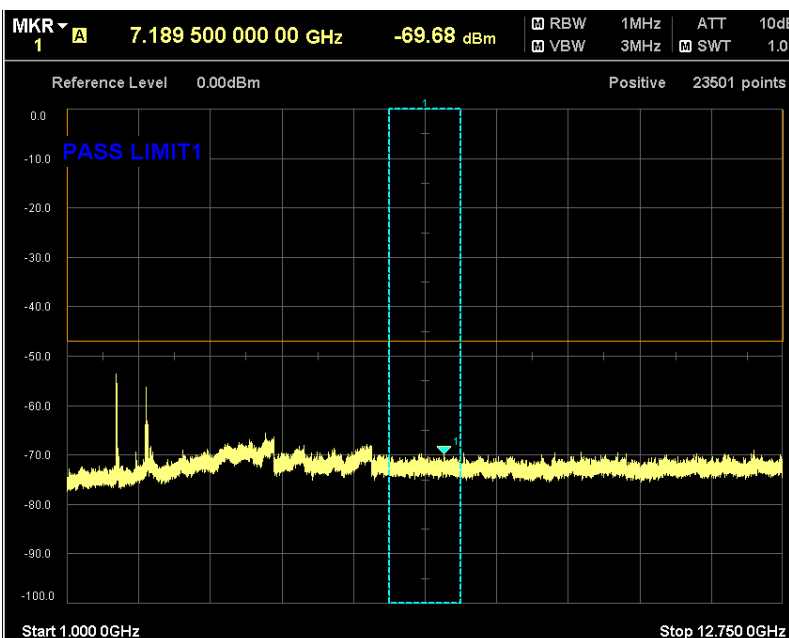


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**High Ch**
**30 MHz-1 GHz**

**1 GHz-12.75 GHz**

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## 5.6 Receiver spurious emissions

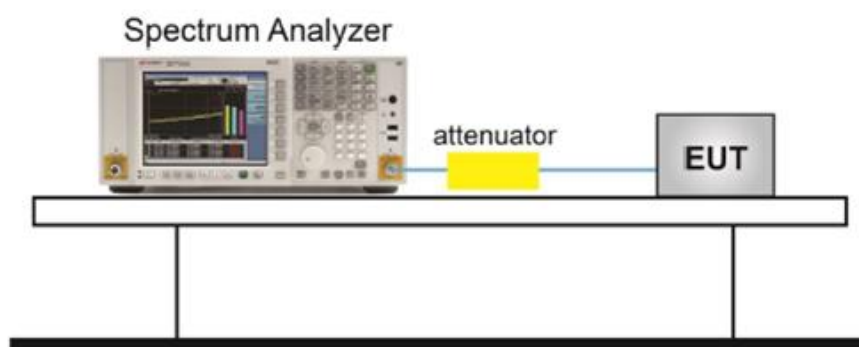
### 5.6.1 Limit(ETSI EN 300 328, V2.2.2 (2019-07)Clause 4.3.1.11.3)



The spurious emissions of the receiver shall not exceed the values given in table 2.

**Spurious emission limits for receivers**

Frequency range	Maximum power, e.r.p. ( $\leq 1$ GHz) e.i.r.p. ( $> 1$ GHz)	Bandwidth
30 MHz to 1 GHz	-57 dBm	100KHz
1 GHz to 12,75 GHz	-47 dBm	1MHz

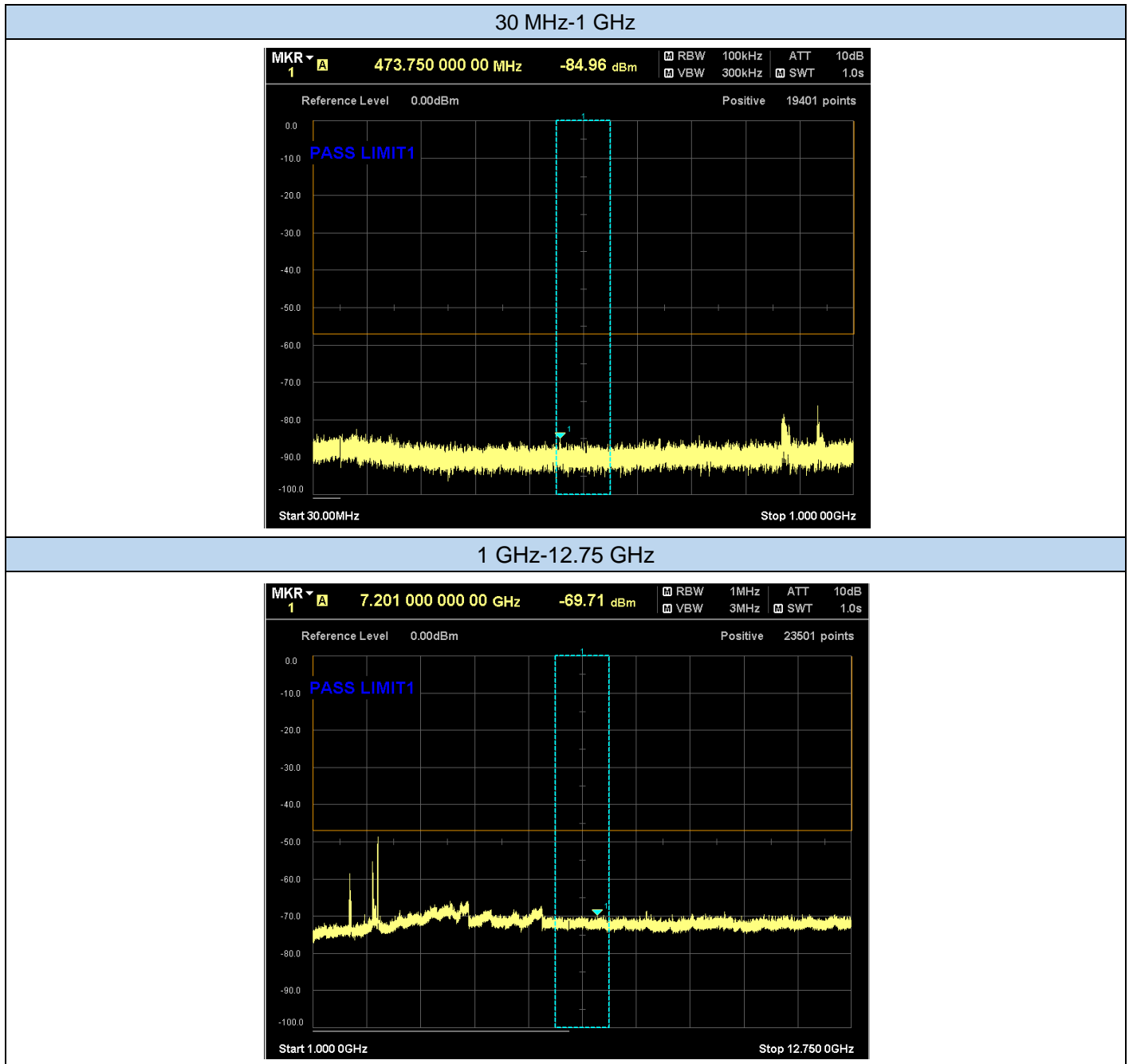
### 5.6.2 TEST SETUP



	<b>TEST REPORT</b>		 TC-7575
	ETSI EN 300 328 V2.2.2 (2019-07)		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 20 of 22	

### 5.6.3 Test results(Conducted measurement)

#### Low CH

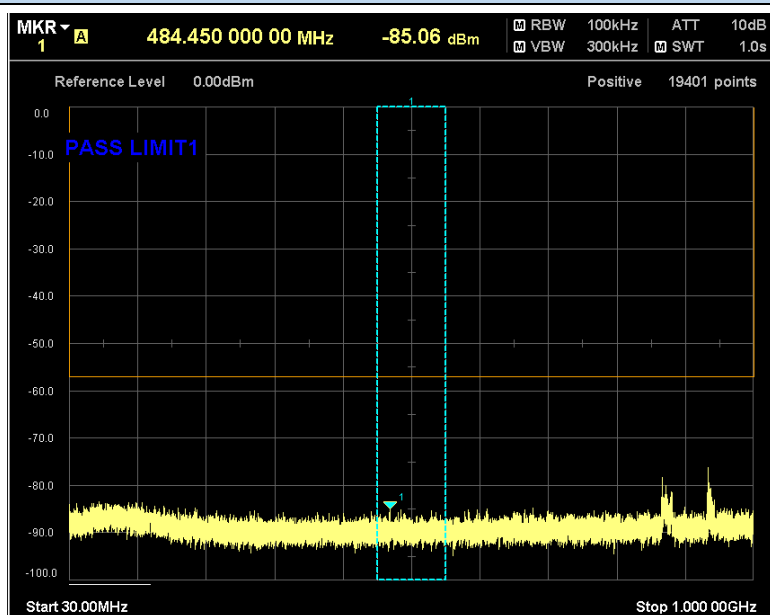
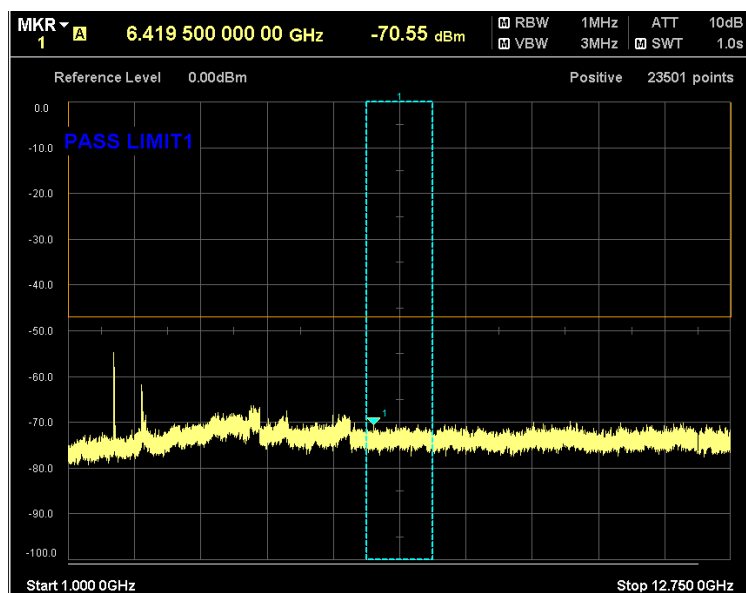


#### SWASTIK ELECTRONICS TESTING CENTRE

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**High CH**
**30 MHz-1 GHz**

**1 GHz-12.75 GHz**

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	<b>TEST REPORT</b>		 TC-7575
	ETSI EN 300 328 V2.2.2 (2019-07)		
	Report No.:SETC23336014	ULR: TC757523000003043F	
	Date of Issue:20/12/2023	Page: 22 of 22	

## 6 Photographs



**\*\*End of report\*\***

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