

# FCC RADIO TEST REPORT FCC ID: 2AIJ6H1

**Product**: Balance Scooters

Trade Name: N/A

Model Name: H1

**Serial Model**: H2,H3,H4,H5, V1,V2,V3,V4,V5

**Report No.:** POCE-1605248118F

# **Prepared for**

Shenzhen Kuke Technology Co., Ltd.

8th Floor, Bldg. A3, Zhongtai Information And Technology Industrial Park, Shilongzai Community, Shiyan, Bao'an District, Shenzhen, China

# Prepared by

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#### **VERIFICATION OF COMPLIANCE**

Applicant's name .....: Shenzhen Kuke Technology Co., Ltd.

Address ...... 8th Floor, Bldg. A3, Zhongtai Information And Technology Industria

Park, Shilongzai Community, Shiyan, Bao'an District, Shenzhen,

China

Manufacture's Name.....: Shenzhen Kuke Technology Co., Ltd.

Park, Shilongzai Community, Shiyan, Bao'an District, Shenzhen,

China

**Product description** 

Product name ...... Balance Scooters

Trademark: N/A

Model Name: H1,H2,H3,H4,H5, V1,V2,V3,V4,V5

Test procedure FCC Part15.247

Standards ANSI C63.10: 2013

This device described above has been tested by POCE, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Result..... Pass

Testing Engineer :

(Ken Li)

Technical Manager

(Jimmy Yao)

Authorized Signatory:



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# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Judgment	Remark		
15.207	Conducted Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(b)(1)	15.247(b)(1) Peak Output Power			
15.247(c) Radiated Spurious Emission		PASS		
15.247(a)(iii)	7(a)(iii) Number of Hopping Frequency			
15.247(a)(iii)	15.247(a)(iii) Dwell Time			
15.247(a)(1)	Bandwidth	PASS		
15.205	5 Band Edge Emission			
15.203 Antenna Requirement		PASS		

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## NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



#### 1.1 TEST FACILITY

Shenzhen POCE Technology Co.,Ltd.

Add.: Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen,

Report No.: POCE-1605248118F

China

FCC-Registration No.: 222278

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

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# 2. GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Balance Scooters		
Trade Name	N/A		
Model Name	H1		
Serial Model	H2,H3,H4,H5, V1,V2,	V3,V4,V5	
Model Difference	All the same,Only mode	I name is different.	
	The EUT is a Balance S	Scooters	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	BT(1Mbps): GFSK	
		BT EDR(2Mbps): $\pi$ /4-DQPSK	
		BT EDR(3Mbps): 8-DPSK	
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps	
	Number Of Channel	79 CH	
Product Description	Antenna Designation:	Please see Note 3.	
	Output	BT(1Mbps): 0.165dBm	
	Power(Conducted):	BT EDR(2Mbps): 0.085dBm	
		BT EDR(3Mbps): 0.05dBm	
	Based on the application, features, or specifical exhibited in User's Manual, the EUT is consider ITE/Computing Device. More details of EUT teaspecification, please refer to the User's Manual		
Channel List	Please refer to the Note	2.	
	Model:TCN120WS-4200	020	
Adapter	AC Power Input: 100-240V~, 50/60Hz, 2A		
	Output: 42V===2A		
Battery	DC 36V ===		
Connecting I/O Port(s)	Please refer to the User's Manual		

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

		Chann	el List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
80	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

# 3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	N/A	0	BT Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Normal Link

For Conducted Emission		
Final Test Mode	Description	
Mode 4	Normal Link	

For Radiated Emission			
Final Test Mode Description			
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test
- (3)The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

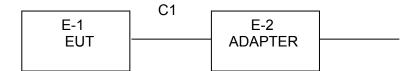
#### 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: Broadcom 2402 MHz 2441 MHz 2480 MHz			
Frequency				
Parameters(1/2/3Mbps)	DEF	DEF	DEF	

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# 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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# 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Balance Scooters	INMOTION	H1	N/A	EUT
E-2	Adapter	N/A	XVE-8400150	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



# 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Radial	Radiation lest equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
1	EMI Test Receiver	R&S	ESU8	100316	2015/10/25	2016/10/24		
2	Double Ridged Horn Antenna (0.8GHz-18GHz)	R&S	HF907	100276	2015/11/01	2016/10/31		
3	Log-periodic Dipole Antenna (30MHz-1GHz)	R&S	HL223	100435	2015/11/01	2016/10/31		
4	Biconical Antenna (9K-30MHz)	R&S	HK116	100431	2015/10/25	2016/10/24		
5	Pre-amplifer	Schwarzbeck	VULB 9163	9163-462	2016/04/12	2017/04/11		
6	Signal Conditioning Unit	R&S	SCU-08	10008	2015/10/25	2016/10/24		
7	Rod Antenna (9K-30MHz)	R&S	HFH2-Z6	100386	2015/11/01	2016/10/31		
8	Pre-amplifer	R&S	SCU-01	10049	2015/10/25	2016/10/24		
9	Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	2015/11/01	2016/10/31		
10	Spectrum Analyzer	Agilent	E4407B	MY45109572	2015/11/01	2016/10/31		

Conduction Test equipment

Item	Kind of Equipment	Manufactur er	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESU8	100316	2015/10/25	2016/10/24
	Current Probe	R&S	EZ-17	100532	2015/10/25	2016/10/24
3	Two Line V-Network	R&S	ENV216	101109	2015/10/25	2016/10/24
4	Passive Voltage Probe	R&S	ESH2-Z3	100169	2015/10/25	2016/10/24
5	V-Network	R&S	ESH3-Z6	100694	2015/10/25	2016/10/24
6	V-Network	R&S	ESH3-Z6	100690	2015/10/25	2016/10/24
7	Artificial mains	R&S	ESH2-Z5	100309	2015/10/25	2016/10/24
8	Pulse Limiter	R&S	ESH3-Z2	101242	2015/10/25	2016/10/24



#### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Statitualu	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



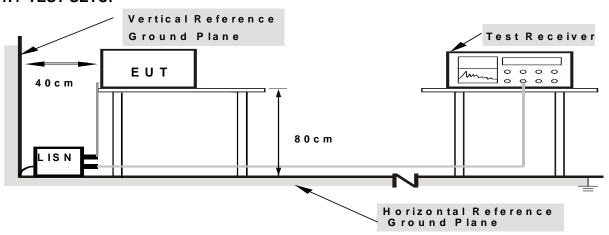
#### 3.1.2 TEST PROCEDURE

- a. 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 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.1.5 EUT OPERATING CONDITIONS

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.

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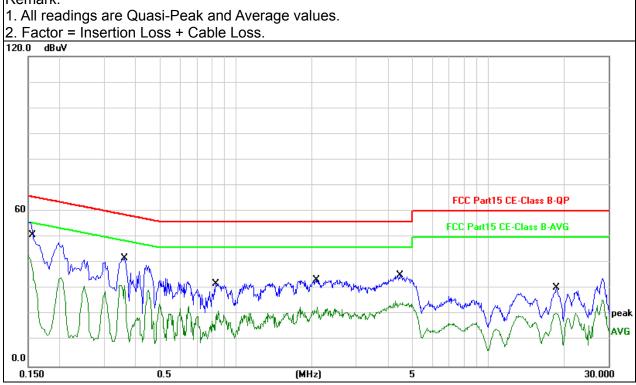


#### 3.1.6 TEST RESULTS

EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1582	38.99	10.05	49.04	65.55	-16.51	QP
0.1582	22.41	10.05	32.46	55.55	-23.09	AVG
0.3596	31.70	10.10	41.80	58.74	-16.94	QP
0.3596	18.22	10.10	28.32	48.74	-20.42	AVG
0.8340	21.84	10.15	31.99	56.00	-24.01	QP
0.8340	8.03	10.15	18.18	46.00	-27.82	AVG
2.0860	23.13	10.18	33.31	56.00	-22.69	QP
2.0860	10.49	10.18	20.67	46.00	-25.33	AVG
4.4820	25.04	10.16	35.20	56.00	-20.80	QP
4.4820	14.02	10.16	24.18	46.00	-21.82	AVG
18.7139	20.15	10.17	30.32	60.00	-29.68	QP
18.7139	10.17	10.17	20.34	50.00	-29.66	AVG

#### Remark:



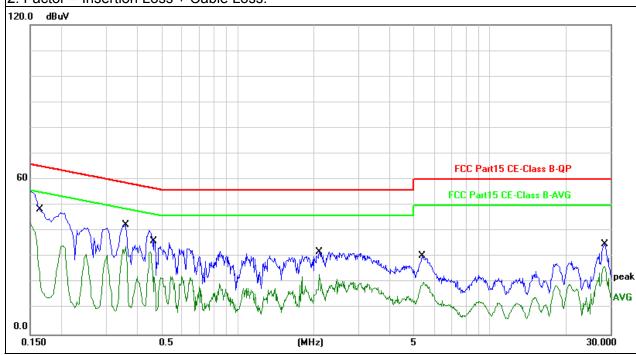
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EUT:	Balance Scooters	Model Name. :	H1
Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turo
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1660	37.44	10.06	47.50	65.15	-17.65	QP
0.1660	6.38	10.06	16.44	55.15	-38.71	AVG
0.3558	32.43	10.10	42.53	58.82	-16.29	QP
0.3558	22.45	10.10	32.55	48.82	-16.27	AVG
0.4660	25.96	10.11	36.07	56.58	-20.51	QP
0.4660	12.15	10.11	22.26	46.58	-24.32	AVG
2.1099	21.79	10.18	31.97	56.00	-24.03	QP
2.1099	10.58	10.18	20.76	46.00	-25.24	AVG
5.3820	20.38	10.13	30.51	60.00	-29.49	QP
5.3820	9.05	10.13	19.18	50.00	-30.82	AVG
28.4780	24.67	10.21	34.88	60.00	-25.12	QP
28.4780	11.89	10.21	22.10	50.00	-27.90	AVG

#### Remark:

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance	
(MHz)	(micorvolts/meter)	(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	

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	V/m) (at 3M)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook 1 MHz / 10Hz for Average
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

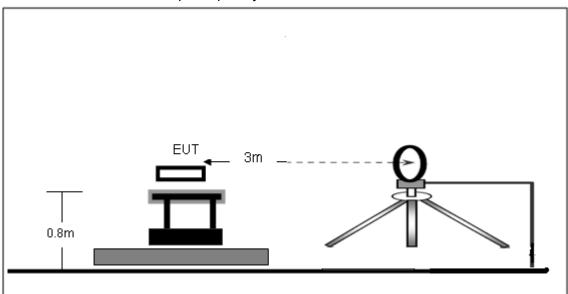
#### 3.2.3 DEVIATION FROM TEST STANDARD

No deviation

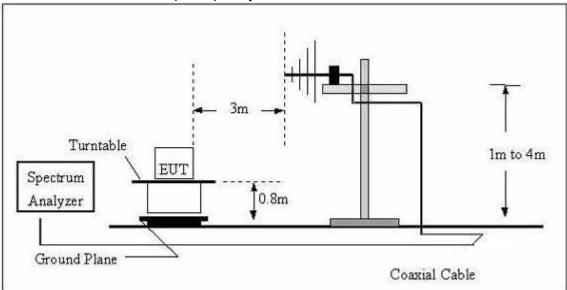


#### 3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

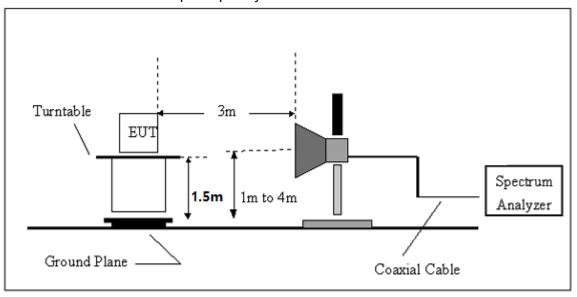


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



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#### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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#### 3.2.6 TEST RESULTS

Radiated Spurious Emission (Below 30MHz )

EUT:	Balance Scooters	Model Name :	H1
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Polarization :	
Test Voltage :	By Battery		
Test Mode :	TX		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

Limit line = specific limits(dBuv) + distance extrapolation factor.



Radiated Spurious Emission (Between 30MHz – 1GHz)

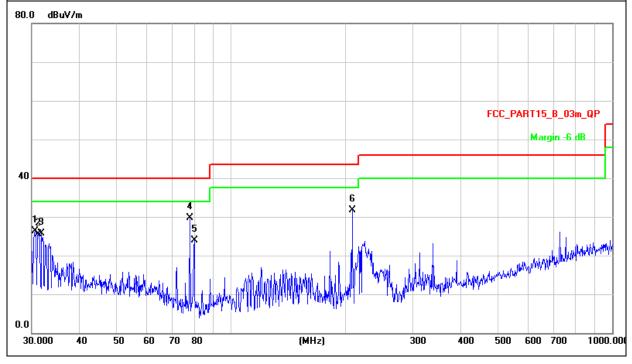
	Dalama Ossatana	Madal Nama	1.14
EUT:	Balance Scooters	Model Name :	H1
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	By Battery		
Test Mode :	TX		

Report No.: POCE-1605248118F

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
30.6379	34.44	-8.11	26.33	40.00	-13.67	QP
31.1798	33.78	-8.19	25.59	40.00	-14.41	QP
31.8427	34.04	-8.27	25.77	40.00	-14.23	QP
77.8654	46.98	-17.33	29.65	40.00	-10.35	QP
80.0806	42.03	-18.09	23.94	40.00	-16.06	QP
207.8501	47.76	-15.98	31.78	43.50	-11.72	QP

#### Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.



EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	By Battery		
Test Mode :	TX		

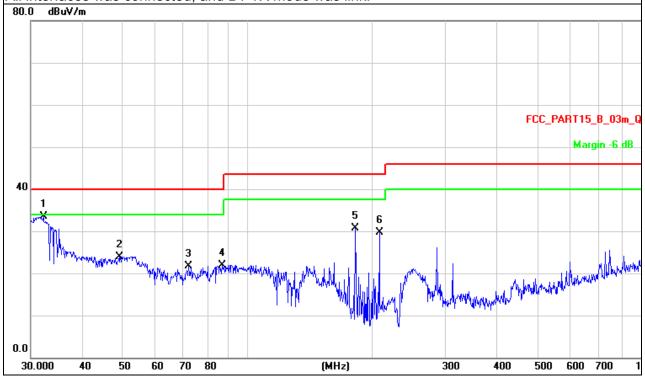


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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
32.1795	41.74	-8.33	33.41	40.00	-6.59	QP
49.0145	34.13	-10.13	24.00	40.00	-16.00	QP
72.0843	37.05	-15.28	21.77	40.00	-18.23	QP
86.8068	39.72	-17.91	21.81	40.00	-18.19	QP
181.9202	45.20	-14.58	30.62	43.50	-12.88	QP
207.8501	45.60	-15.98	29.62	43.50	-13.88	QP

#### Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.
All interfaces was connected, and BT TX mode was link.





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# Radiated Spurious Emission (1GHz to 10<sup>th</sup> harmonics) (Scan with GFSK, $\pi$ /4-DQPSK,8DPSK,the worst casw is BDR Mode (GFSK)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
		Lo	w Channel (2402 N	IHz)			
1126.6	67.41	-19.14	48.27	74	-25.73	peak	Vertical
1596.3	60.49	-16.43	44.06	74	-29.94	peak	Vertical
3041.5	61.27	-11.63	49.64	74	-24.36	peak	Vertical
4805.7	55.68	-3.64	52.04	74	-21.96	peak	Vertical
1128.1	71.82	-19.14	52.68	74	-21.32	peak	Horizontal
1593.2	66.66	-16.43	50.23	74	-23.77	peak	Horizontal
3042.5	59.33	-11.63	47.7	74	-26.3	peak	Horizontal
4802.4	51.24	-3.64	47.6	74	-26.4	peak	Horizontal
		Mi	id Channel (2441 M	Hz)			
1341.5	65.21	-17.48	47.73	74	-26.27	peak	Vertical
2022.6	59.36	-12.92	46.44	74	-27.56	peak	Vertical
2826.7	57.43	-11.73	45.7	74	-28.3	peak	Vertical
4883.8	53.58	-3.68	49.9	74	-24.1	peak	Vertical
1127.4	66.67	-19.14	47.53	74	-26.47	peak	Horizontal
1635.3	61.78	-16.06	45.72	74	-28.28	peak	Horizontal
2486.1	56.89	-12.77	44.12	74	-29.88	peak	Horizontal
4883.2	51.92	-3.68	48.24	74	-25.76	peak	Horizontal
		Hiç	gh Channel (2480 M	1Hz)			
1172.2	63.94	-18.54	45.4	74	-28.6	peak	Vertical
2275.5	64.87	-12.87	52	74	-22	peak	Vertical
3127.3	55.79	-11.43	44.36	74	-29.64	peak	Vertical
4962.4	51.69	-3.59	48.1	74	-25.9	peak	Vertical
1128.6	70.54	-19.14	51.4	74	-22.6	peak	Horizontal
1340.2	67.43	-17.48	49.95	74	-24.05	peak	Horizontal
1852.7	65.37	-14.64	50.73	74	-23.27	peak	Horizontal
4959.9	53.22	-3.59	49.63	74	-24.37	peak	Horizontal

#### Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Emission Level - Limit



# Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment
			GFSK				
2400	46.62	-13.06	33.56	74	-40.44	peak	Vertical
2400	48.24	-13.06	35.18	74	-38.82	peak	Horizontal
2483.5	46.12	-12.78	33.34	74	-40.66	peak	Vertical
2483.5	48.93	-12.78	36.15	74	-37.85	peak	Horizontal
			$\pi$ /4-DQPSK				
2400	47.75	-13.06	34.69	74	-39.31	peak	Vertical
2400	51.38	-13.06	38.32	74	-35.68	peak	Horizontal
2483.5	46.64	-12.78	33.86	74	-40.14	peak	Vertical
2483.5	50.89	-12.78	38.11	74	-35.89	peak	Horizontal
			8DPSK				
2400	47.87	-13.06	34.81	74	-39.19	peak	Vertical
2400	48.14	-13.06	35.08	74	-38.92	peak	Horizontal
2483.5	47.79	-12.78	35.01	74	-38.99	peak	Vertical
2483.5	48.92	-12.78	36.14	74	-37.86	peak	Horizontal

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NOTE: 1.The result(PK) less than AV limite,No need shown AV result.
2.Hopping enabled and disabled have evaluated,and the worest data was reported

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### 4. NUMBER OF HOPPING CHANNEL

#### 4.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS			

Spectrum Parameters	Setting	
Attenuation	Auto	
Span Frequency	= the frequency band of operation	
RB	RBW ≥ 1% of the span	
VB	VBW ≥ RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

#### **4.1.1 TEST PROCEDURE**

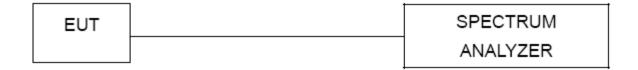
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

#### 4.1.2 DEVIATION FROM STANDARD

No deviation.

#### 4.1.3 TEST SETUP



#### 4.1.4 EUT OPERATION CONDITIONS

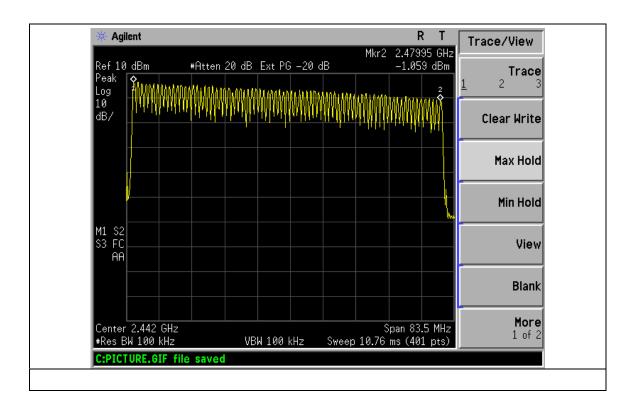
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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# 4.1.5 TEST RESULTS

EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	By Battery
Test Mode :	Hopping Mode		

Number of Hopping Channel	79





#### 5. AVERAGE TIME OF OCCUPANCY

#### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

#### **5.1.1 TEST PROCEDURE**

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- C. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. A Period Time = (channel number)\*0.4

  - DH1 Time Slot: Reading \* (1600/2)\*31.6/(channel number) DH3 Time Slot: Reading \* (1600/4)\*31.6/(channel number)
  - DH5 Time Slot: Reading \* (1600/6)\*31.6/(channel number)

#### **5.1.2 DEVIATION FROM STANDARD**

No deviation.

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# 5.1.3 TEST SETUP **EUT** SPECTRUM ANALYZER **5.1.4 EUT OPERATION CONDITIONS**

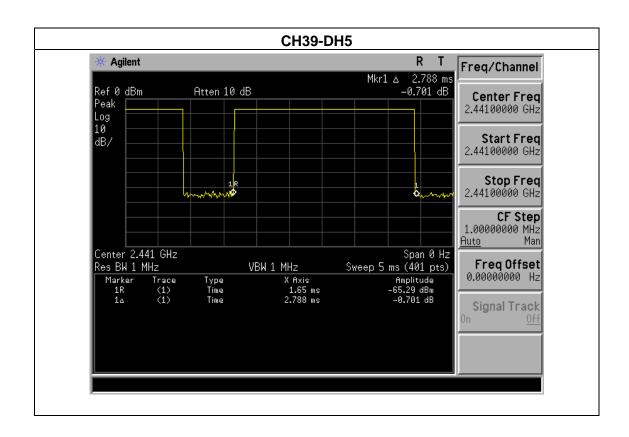
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



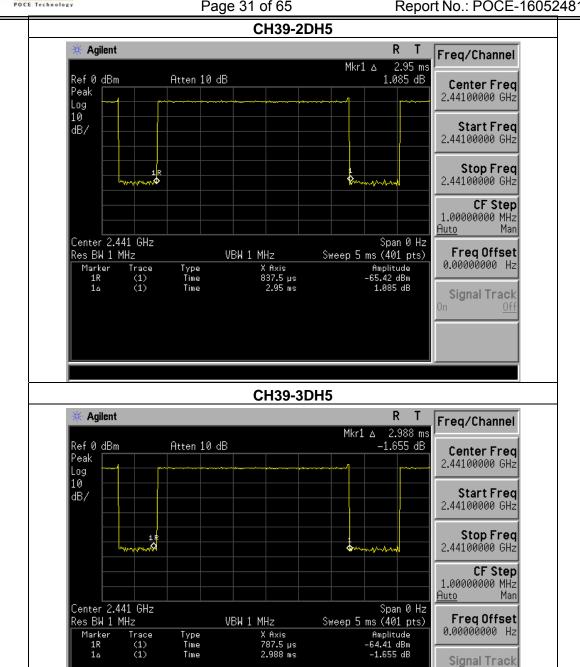
#### **5.1.5 TEST RESULTS**

EUT:	Balance Scooters	Model Name :	H1
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH39-DH5, 2DH5, 3DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	2.79	0.30	0.4
2DH5	2441 MHz	2.95	0.31	0.4
3DH5	2441 MHz	2.99	0.32	0.4



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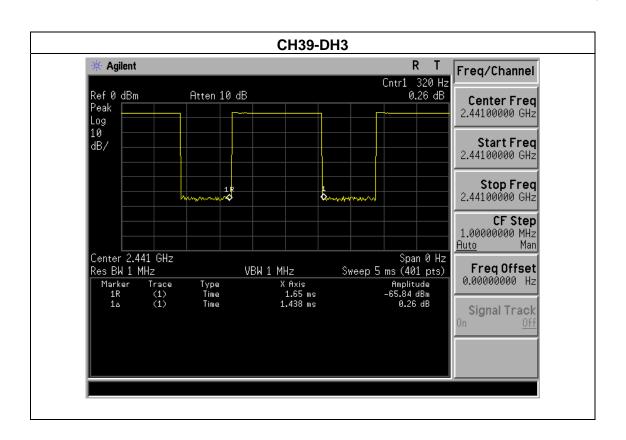




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EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH39-DH3, 2DH3, 3DH3		

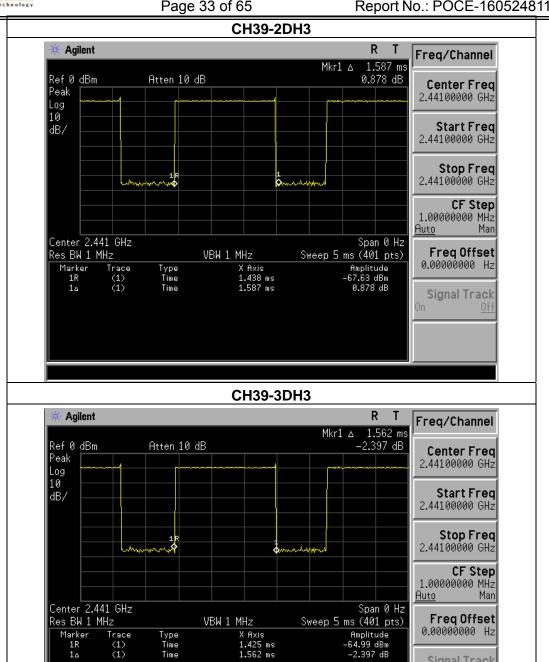
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.44	0.23	0.4
2DH3	2441 MHz	1.59	0.25	0.4
3DH3	2441 MHz	1.56	0.25	0.4



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-2.397 dB

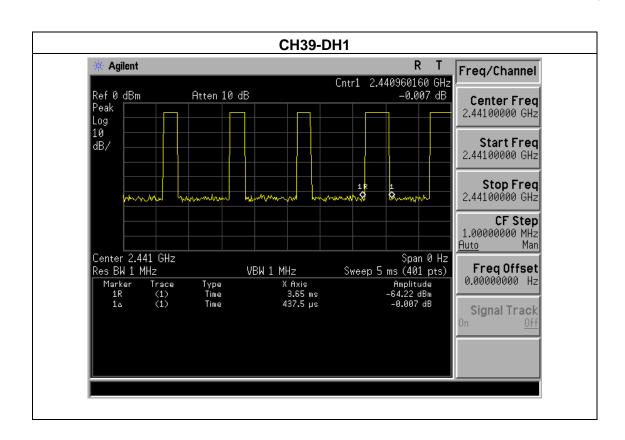
Signal Track



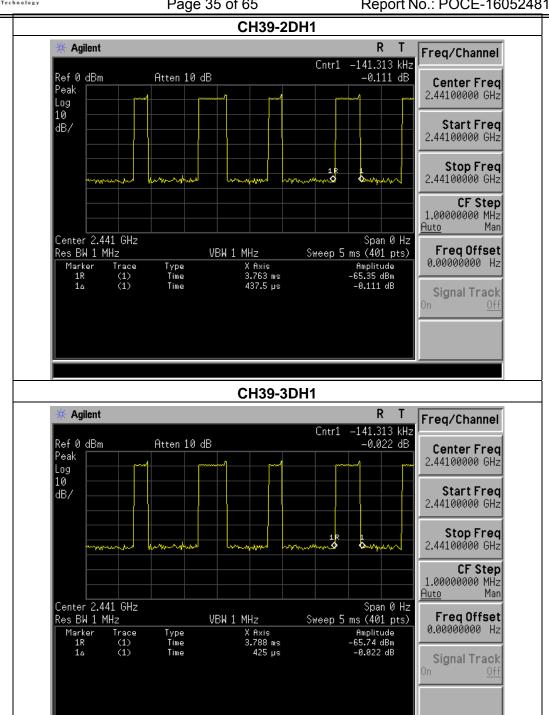
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EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH39-DH1, 2DH1, 3DH1		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.44	0.14	0.4
2DH1	2441 MHz	0.44	0.14	0.4
3DH1	2441 MHz	0.47	0.15	0.4



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#### 6. HOPPING CHANNEL SEPARATION MEASUREMENT

#### **6.1 APPLIED PROCEDURES / LIMIT**

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

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Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	100 kHz (Channel Separation)	
VB	300 kHz (Channel Separation)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

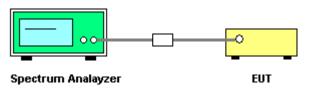
#### **6.1.1 TEST PROCEDURE**

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

#### **6.1.2 DEVIATION FROM STANDARD**

No deviation.

#### 6.1.3 TEST SETUP



#### **6.1.4 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

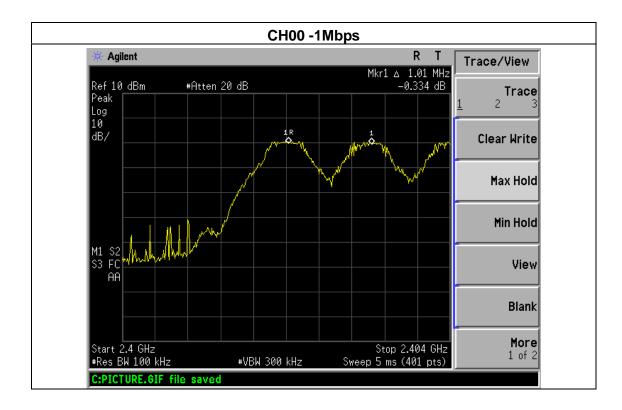


# 6.1.5 TEST RESULTS

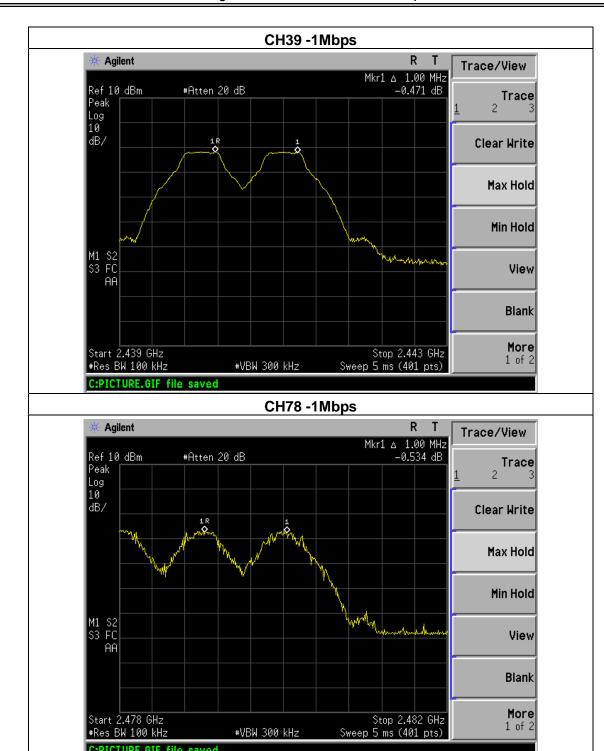
EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.01	Complies
2441 MHz	1.00	Complies
2480 MHz	1.00	Complies

Ch. Separation Limits: > 20dB bandwidth







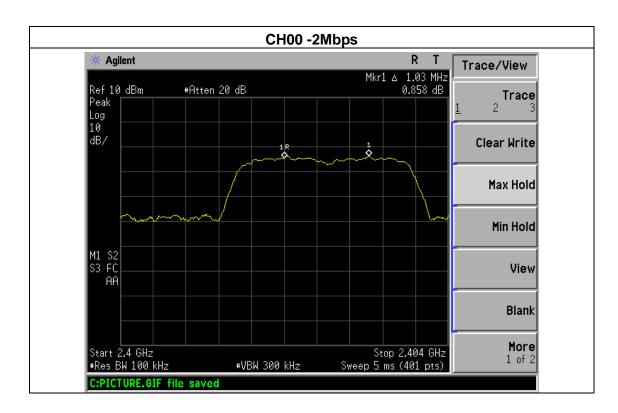


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EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.03	Complies
2441 MHz	1.03	Complies
2480 MHz	1.04	Complies

# Ch. Separation Limits: >2/3 of 20dB bandwidth





M1 S2 S3 FC AA

Start 2.478 GHz #Res BW 100 kHz Report No.: POCE-1605248118F

View

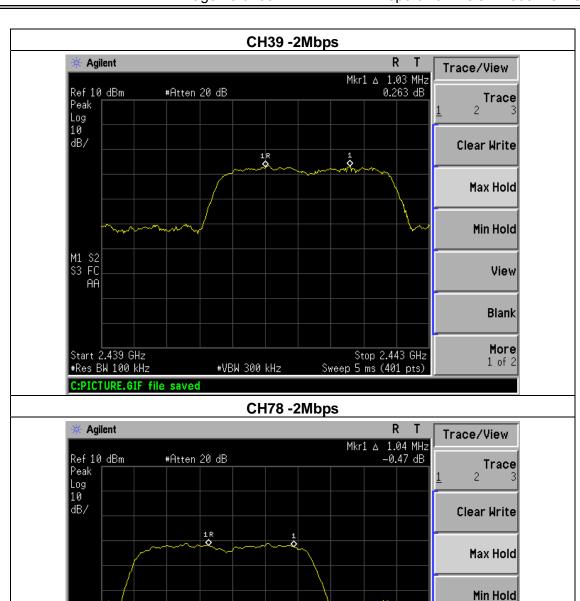
Blank

More

1 of 2

Stop 2.482 GHz

Sweep 5 ms (401 pts)



#VBW 300 kHz

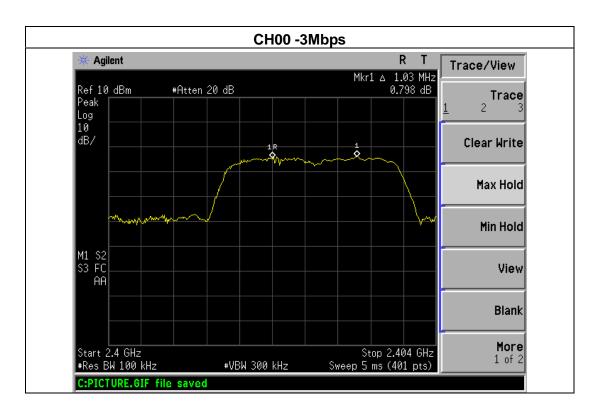


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EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.03	Complies
2441 MHz	1.03	Complies
2480 MHz	1.04	Complies

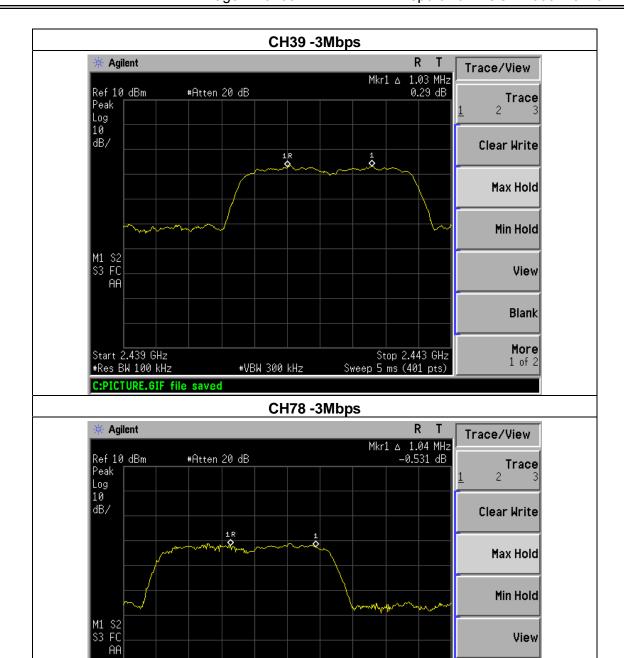
# Ch. Separation Limits: >2/3 of 20dB bandwidth





Start 2.478 GHz #Res BW 100 kHz

C:PICTURE.GIF file saved



#VBW 300 kHz

Blank

More

1 of 2

Stop 2.482 GHz

Sweep 5 ms (401 pts)

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### 7. BANDWIDTH TEST

### 7.1 APPLIED PROCEDURES / LIMIT

	,			
FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result			Result	
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	1% of the 20 dB bandwidth	
VB	≥RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time Auto		

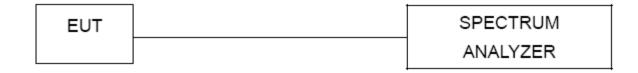
### 7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1% of the 20 dB bandwidth, VBW≥ RBW, Sweep time = Auto.

### 7.1.2 DEVIATION FROM STANDARD

No deviation.

### 7.1.3 TEST SETUP



### 7.1.4 EUT OPERATION CONDITIONS

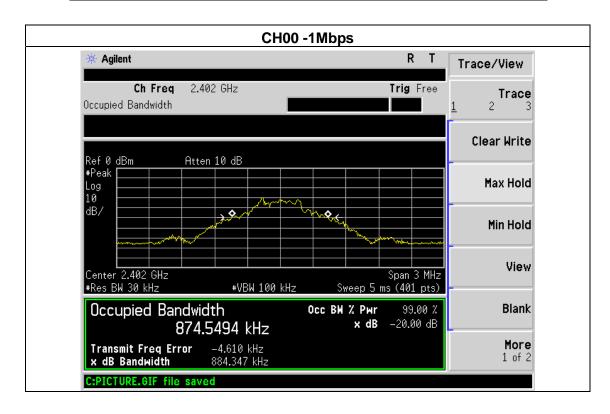
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



# 7.1.5 TEST RESULTS

EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	884.347	PASS
2441 MHz	887.082	PASS
2480 MHz	827.515	PASS





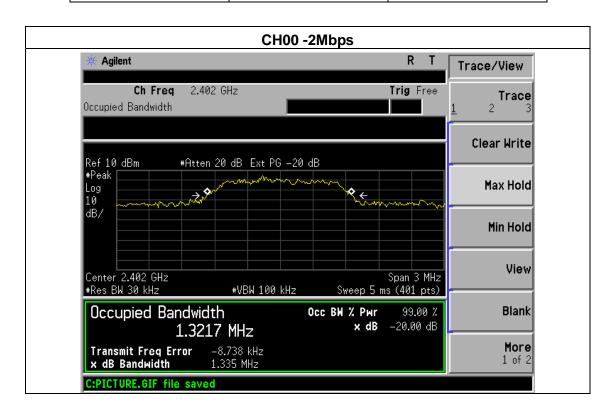




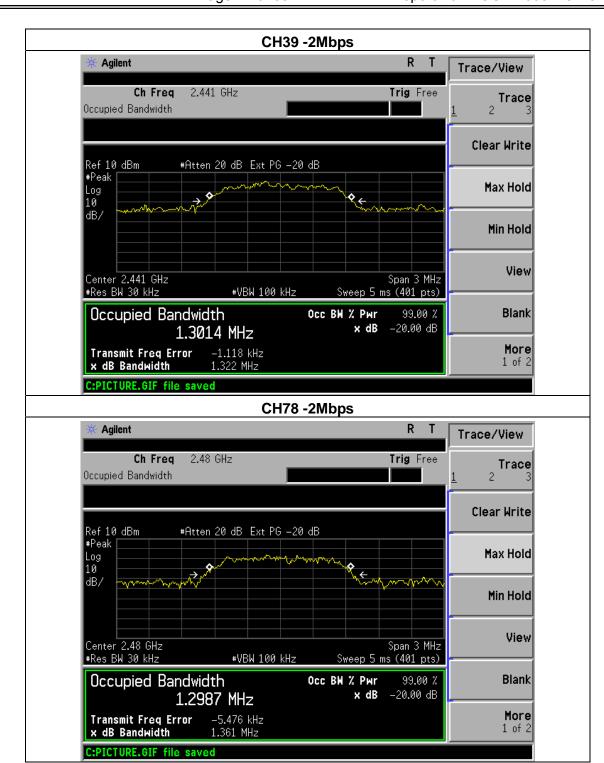
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EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH00 / CH39 /C78(2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.335	PASS
2441 MHz	1.322	PASS
2480 MHz	1.361	PASS





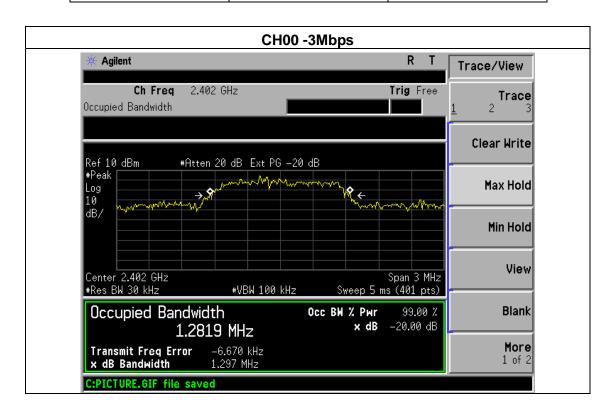


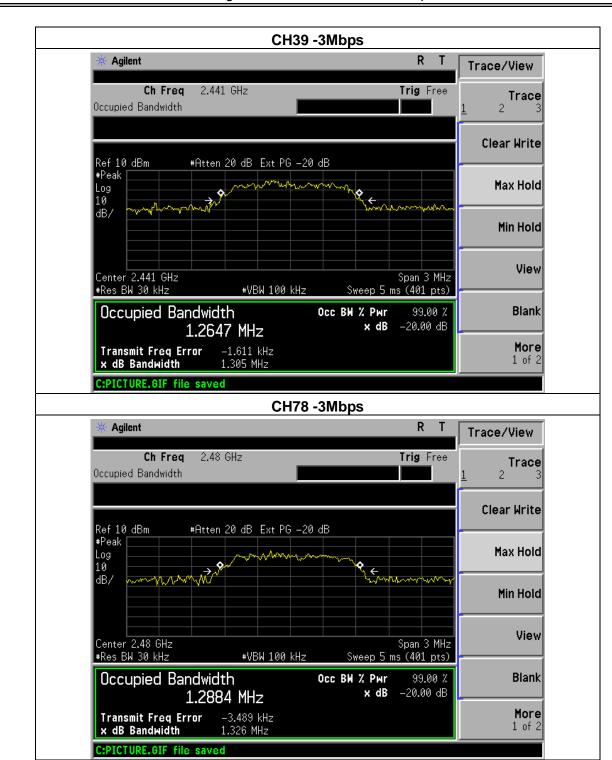


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EUT:	Balance Scooters	Model Name :	H1
Temperature :	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	By Battery
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.297	PASS
2441 MHz	1.305	PASS
2480 MHz	1.326	PASS







# 8. PEAK OUTPUT POWER TEST

### **8.1 APPLIED PROCEDURES / LIMIT**

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz) Result					
15.247 (b)(i)	Peak Output Power	30Bm or 20.96dBm	2400-2483.5	PASS	

Report No.: POCE-1605248118F

# **8.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $\mathsf{VBW} \geq \mathsf{RBW}$ 

Sweep = auto

Detector function = peak

Trace = max hold

### **8.1.2 DEVIATION FROM STANDARD**

No deviation.

### 8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

# **8.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

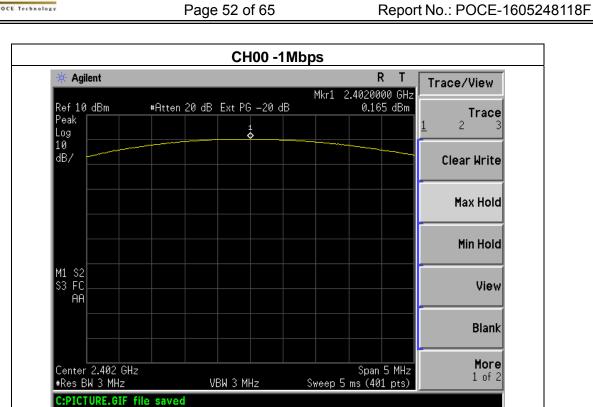
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# 8.1.5 TEST RESULTS

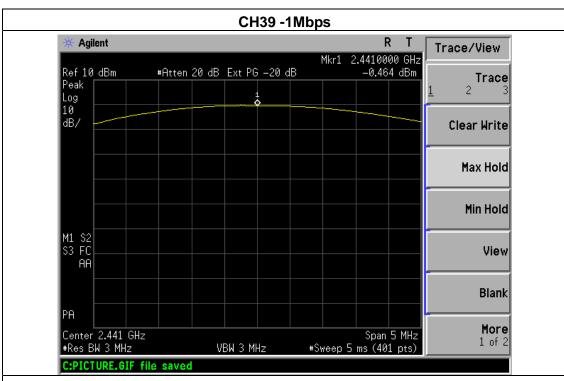
EUT:	Balance Scooters	Model Name :	H1	
Temperature :	<b>25</b> ℃	Relative Humidity:	60%	
Pressure :	1012 hPa	Test Voltage :	By Battery	
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)			

1Mbps				
Test Channel	Frequency	Peak Output Power	LIMIT	
icst orialine	(MHz)	(dBm)	(dBm)	
CH00	2402	0.165	30	
CH39	2441	-0.464	30	
CH78	CH78 2480 -0.232		30	
		2Mbps		
CH00	2402	0.085	20.96	
CH39	2441	-2.043	20.96	
CH78	CH78 2480 -1.981		20.96	
		3Mbps		
CH00	2402	0.05	20.96	
CH39	2441	-2.012	20.96	
CH78	2480	-2.005	20.96	





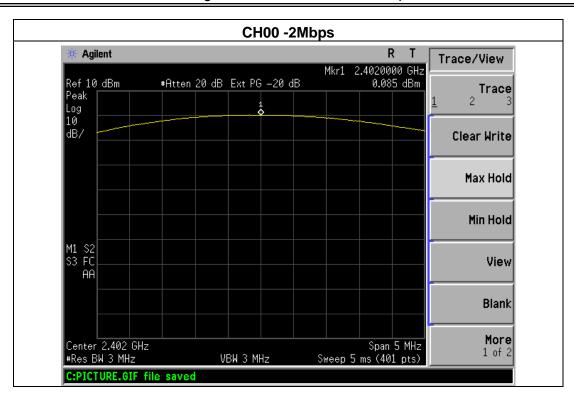




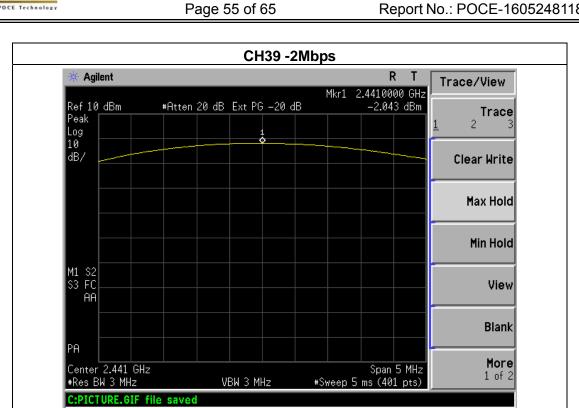
# CH78 -1Mbps

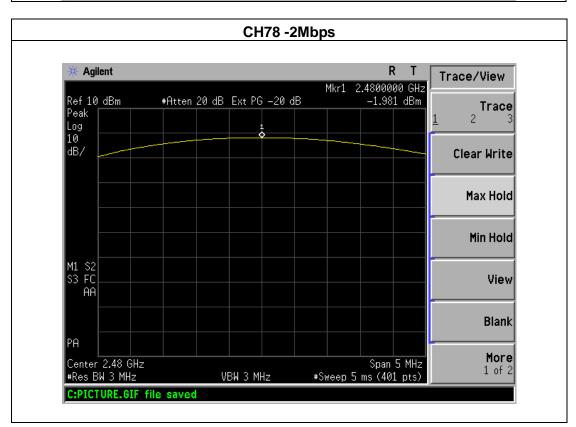


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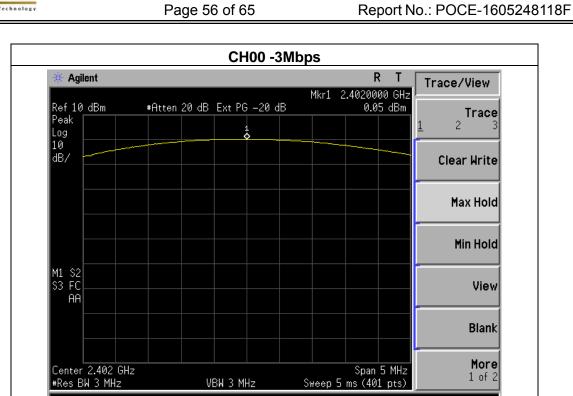




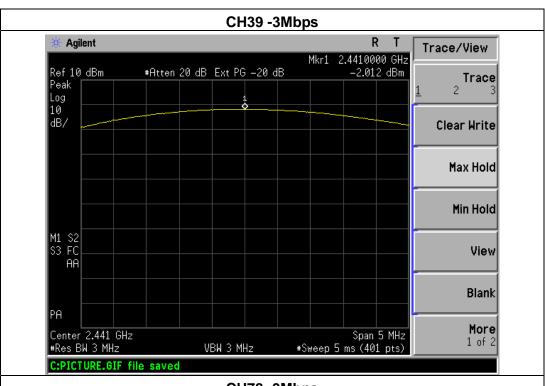






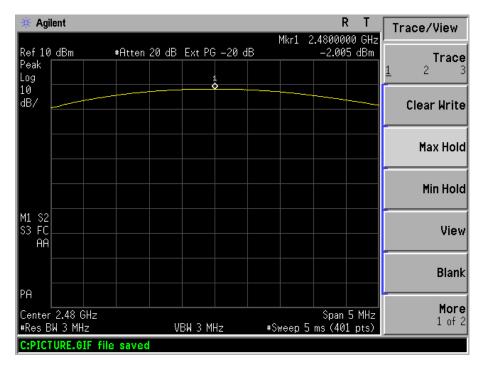






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# 9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

#### **TEST PROCEDURE**

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

### 9.1 DEVIATION FROM STANDARD

No deviation.

### 9.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### 9.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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# 9.4 TEST RESULTS

EUT:	Balance Scooters	Model Name :	H1	
Temperature :	<b>25</b> ℃	Relative Humidity:	60%	
Pressure :	1012 hPa	Test Voltage :	By Battery	
Test Mode :	CH00/ CH78 (1M/2M/3Mbps Mode)			

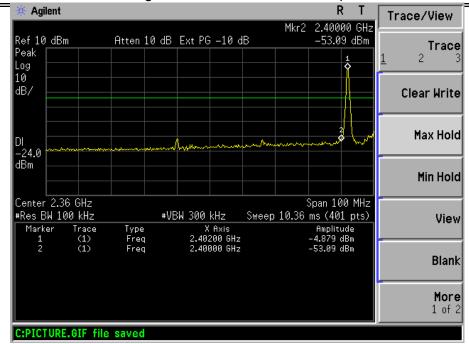
Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result				
	BDR mode (GFS	K)					
Left-band	48.21	20	Pass				
Right-band	49.88	20	Pass				
	EDR mode (π/4-DC	PSK)					
Left-band	48.17	20	Pass				
Right-band 49.06		20	Pass				
	EDR mode(8DPSK)						
Left-band 48.18		20	Pass				
Right-band 50.58		20	Pass				

BDR mode (GFSK): Band Edge-Left Side

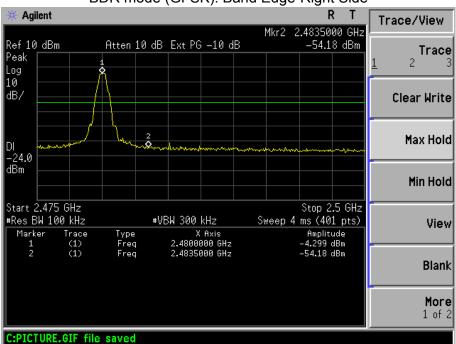


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### BDR mode (GFSK): Band Edge-Right Side

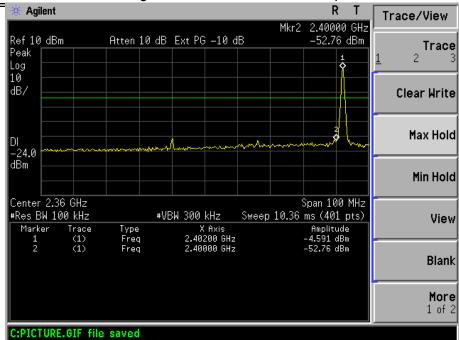


EDR mode (  $\pi$  /4-DQPSK): Band Edge-Left Side

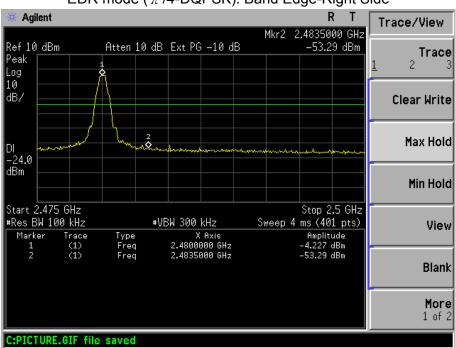


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### EDR mode ( $\pi$ /4-DQPSK): Band Edge-Right Side

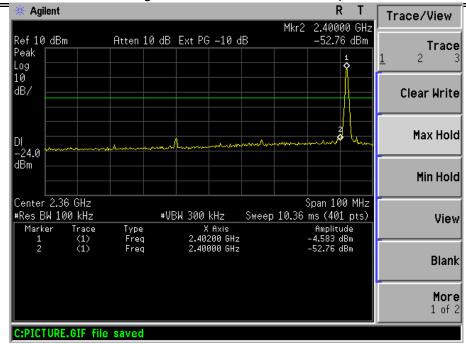


EDR mode(8DPSK): Band Edge-Left Side

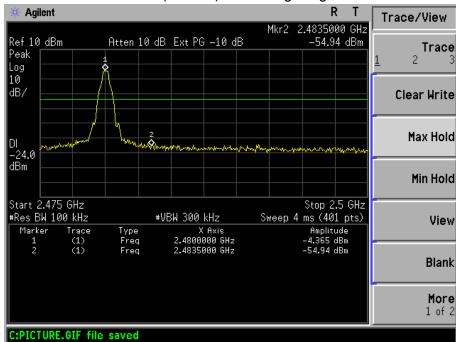


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### EDR mode(8DPSK): Band Edge-Right Side



NOTE: Hopping enabled and disabled have evaluated, and the wortest data was reported

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# **10. ANTENNA REQUIREMENT**

# 10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

# **10.2 EUT ANTENNA**

The EUT	「antenna	is PCB	antenna.	It's perma	nent atta	iched a	ntenna.
It comply	with the	standar	d requirer	ment.			



# 11. EUT TEST PHOTO



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# **CONDUCTED EMISSION Photos**

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