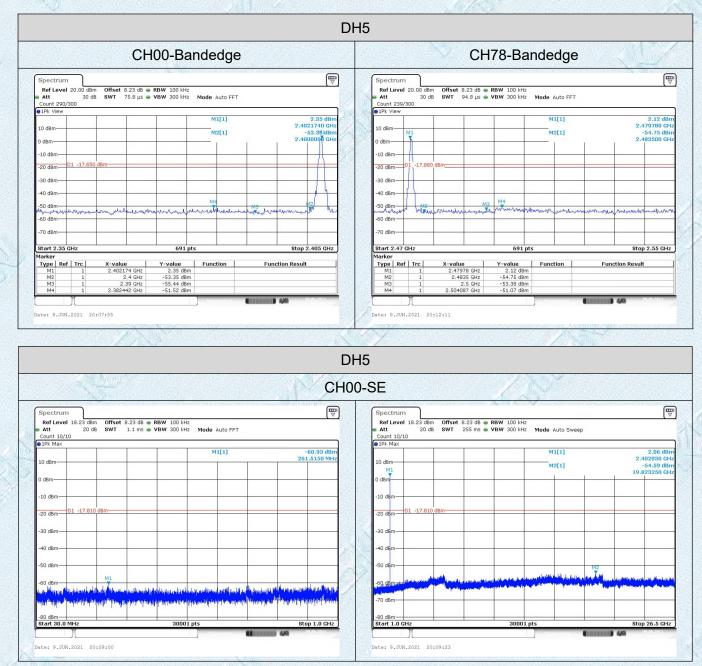


TEST RESULTS



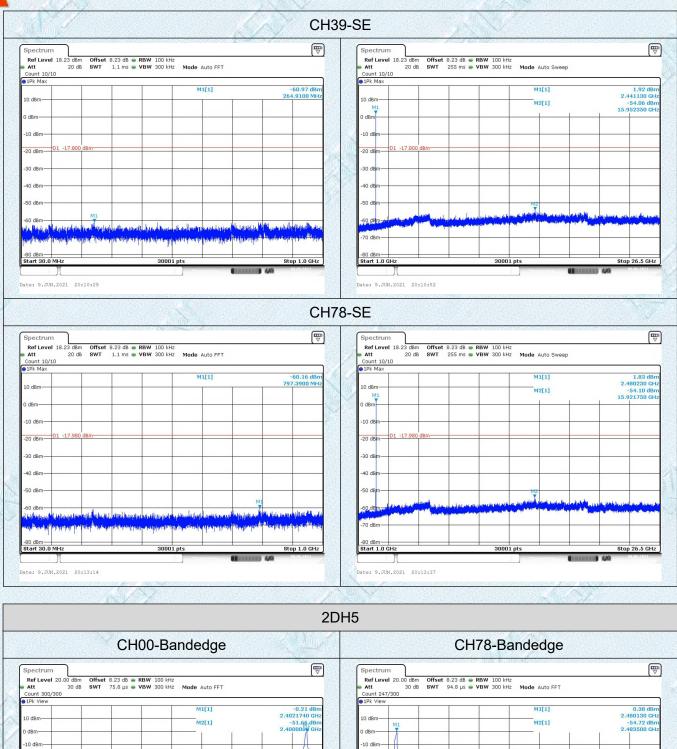
TRF No. Part 15 Subpart C Section 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



Stop 2.55 GHz

Function Result



TRF No. Part 15 Subpart C Section 15.247_R1

691 pt

Function

Y-value -0.21 dB -51.66 dB -54.33 dB -51.80 dB

20 dB

30 dB

40 dBn

50 dBr

-60 dBr

-70 dB

Start 2.35 GH

M2 M3 M4

Type Ref Trc

te: 9.JUN.2021 20:15:14

-20.2

2.402174

2.39 3831594

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

20 dBm

-30 dBm

40 dBm-

50 dBm

-60 dBm

-70 dBn

Start 2.47 GHz

Type Ref Trc

Date: 9.JUN.2021 20:19:26

the we

Stop 2.405 GHz

Function Result

-19.62

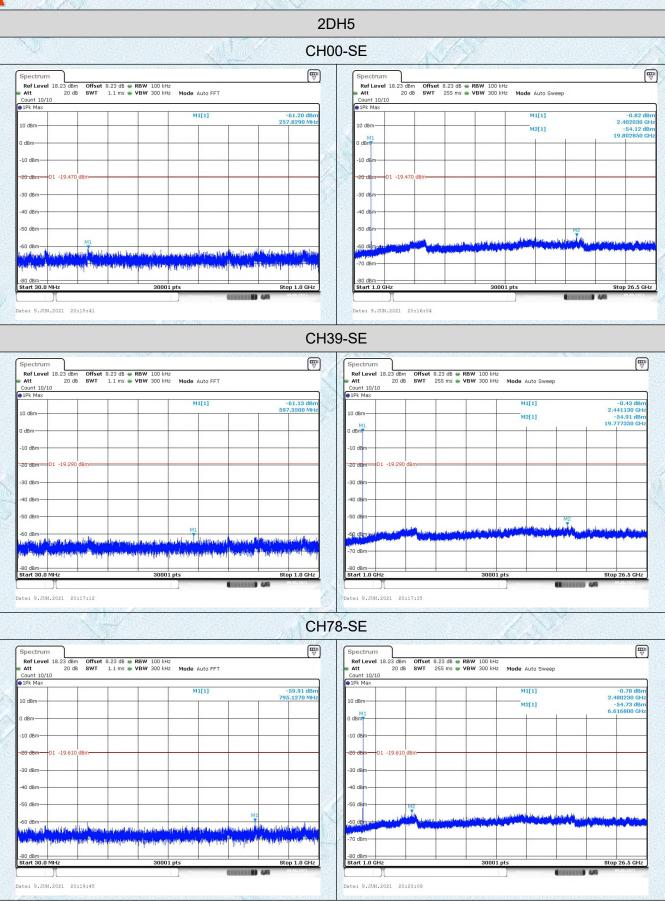
X-value 2.48013 GHz 2.4835 GHz 2.5 GHz 2.511275 GHz 691 pt Y-value

0.38 dBn -54.72 dBn -55.43 dBn -50.72 dBn

Function



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TRF No. Part 15 Subpart C Section 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

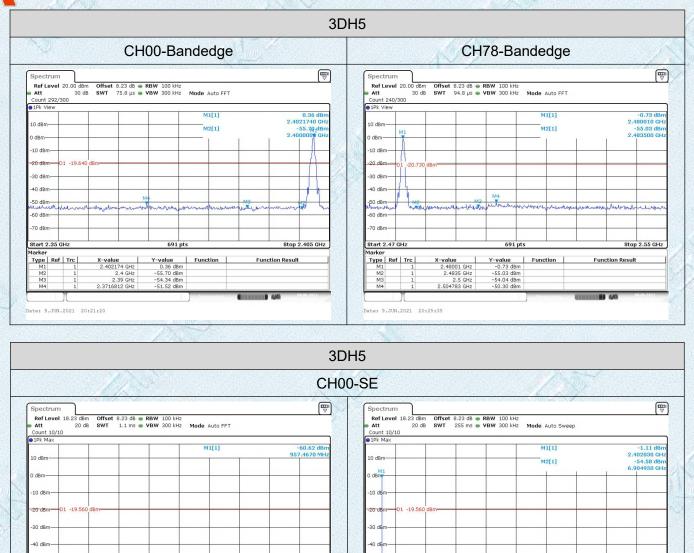


50 d8

Date: 9.JUN.2021 20:22:46

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Report No.: KS2105S1271E02



50

Date: 9.JUN.2021 20:23:09

30001 pt

Stop 26.5 GH

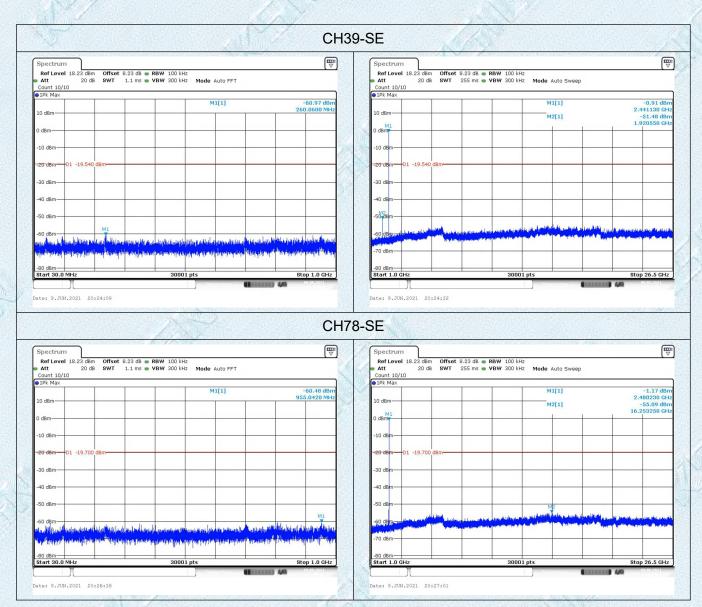
top 1.0 GHz

3000



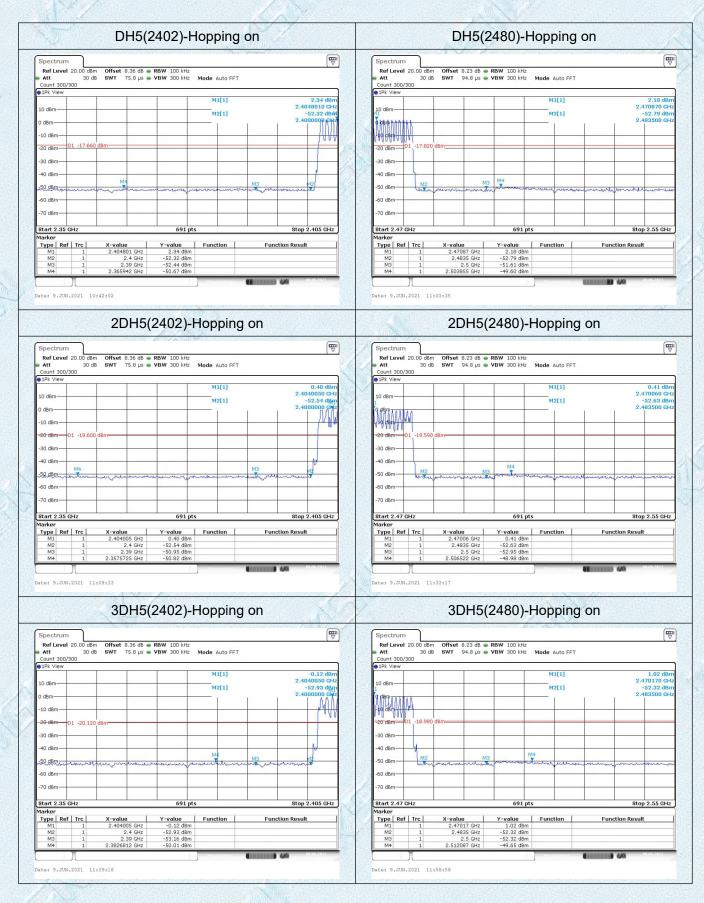
Page 45 of 73

Report No.: KS2105S1271E02





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TRF No. Part 15 Subpart C Section 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



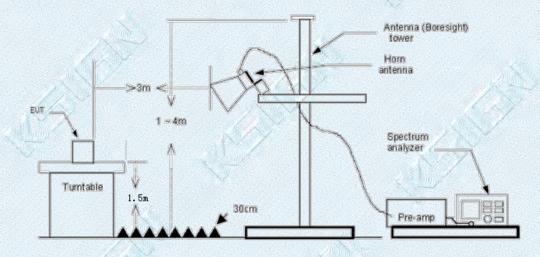
3.8. Band Edge Emissions(Radiated)

				1.1
100	П	n	1	н.
14		и	н	Ľ

Pastriated Englishers' Pand (MHz)	(dBu\ Peak 74	/m)(at 3m)	
Restricted Frequency Band (MHz)	Peak	Average	
2310 ~2390	74	54	
2483.5 ~2500	74	54	

Note: All restriction bands have been tested, only the worst case is reported.

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=10Hz with PEAK Detector for Average Value.

Test Mode

Please refer to the clause 2.2.

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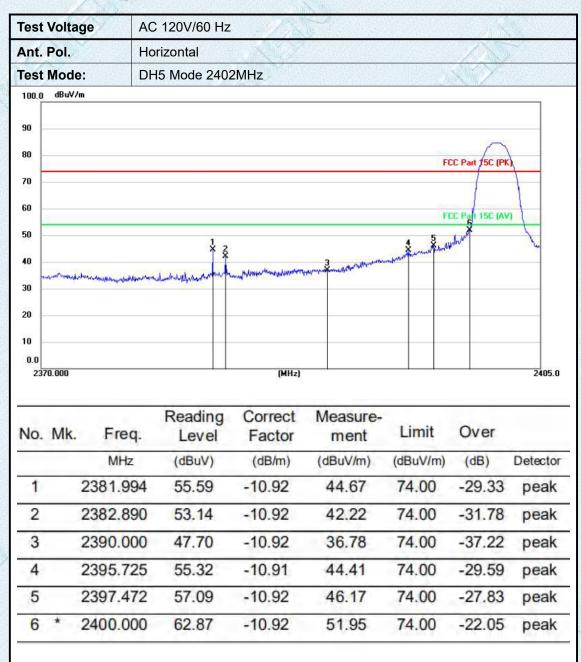


Test Results

Note:

- 1. Measurement = Reading level + Correct Factor
- 2.Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

3.Pre-scan DH5, 2DH5 and 3DH5 modulation, and found the DH5 modulation which it is worse case, so only show the test data for worse case.



Measurement = Reading level + Correct Factor

TRF No. Part 15 Subpart C Section 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



Test	Volta	ge	AC	120V/60 Hz			CLE?		
Ant.	Pol.		Ver	tical					
Test	Mode):	DH	5 Mode 2402	MHz				
100.0	dBuV/	m							
90									
								~~~~	Q I
80			F	CC Part 15C (PI	ch				
70									$\uparrow$
60							P	CC Part 15C (AV	
50			,					Å	-
40		Ť	3 X	4		Later material and ray	and the second second		
~	and between	methoms	m	an summer and the	a good of which and have	not the state of t			
30 -									
20									
10 -									
0.0	0.000				(MHz)				2405.0
237	0.000				[M12]				2403.0
	1.00			Reading	Correct	Measure-		2.11	
No.	Mk.	Fr	eq.	Level	Factor	ment	Limit	Over	
		M	Hz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
		100 M 100 M		FF 00	10.00	45.05	74.00	00.05	noak
1		2374.	302	55.98	-10.93	45.05	74.00	-28.95	peak
1	1	2374. 2375.	7.7.2.0	55.98 57.33	-10.93	45.05	74.00	-28.95	peak
		1.0	827	* 1 * 1					
2		2375.	827 545	57.33	-10.93	46.40	74.00	-27.60	peak
2		2375. 2376.	827 545 177	57.33 52.04	-10.93 -10.93	46.40 41.11	74.00 74.00	-27.60 -32.89	peak peak

TRF No. Part 15 Subpart C Section 15.247_R1 Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

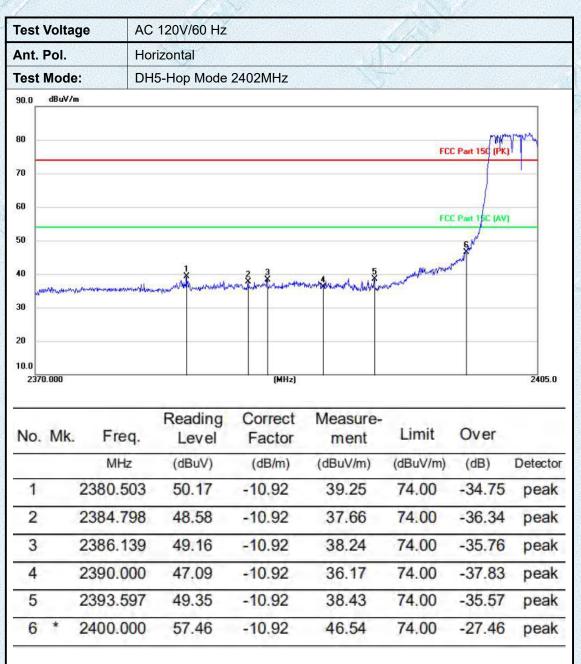


Test	Volta	ge	AC 120V/60 Hz			618		
Ant.	Pol.		Horizontal			$\sim 2$		
Test	Mode	ə:	DH5 Mode 248	0MHz		T		
100.0 Г	dBu¥	/m						
90			114 N					
80		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	my				CO. D 150 (D	
70	-						CC Part 15C (P	KJ
60								
50			<u> </u>	2		F	CC Part 15C (A	V)
10.0	man	month	had makingen	man have		, A	5	
40					Contraction and the	and a second which	and a state of the	New proto
30								
20								
10								
0.0 24	75.000			(MHz)				2500.0
No.	Mk.	Freq	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		2483.50	0 56.91	-10.88	46.03	74.00	-27.97	peak
2	*	2486.49	4 58.57	-10.88	47.69	74.00	-26.31	peak
3		2490.54	5 53.24	-10.89	42.35	74.00	-31.65	peak
4	-	2493.77	6 57.67	-10.89	46.78	74.00	-27.22	peak
5		2495.90	8 52.27	-10.87	41.40	74.00	-32.60	peak
	_	2500.00	0 44.41	-10.88	33.53	74.00	-40.47	peak

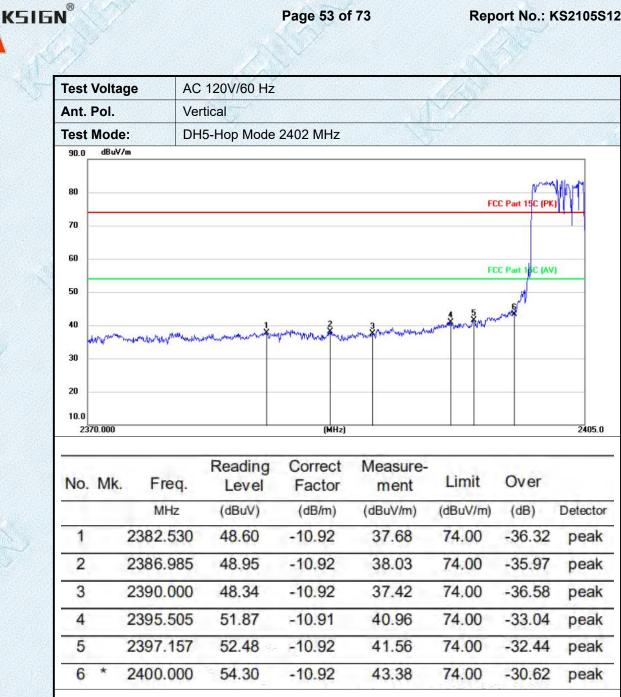


Test	Volta	ge AC	: 120V/60 Hz			6/200		
Ant.	Pol.	Ve	rtical			$\sim$ / $\sim$		
Test	Mode	e: DH	15 Mode 2480	) MHz		Here a		
100.0	dBu¥/	m						
90 80 70		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1	FCC Part 15C (F	rK)
60							CC Part 15C (A	V)
50	mand	- And Market	Number	mounter	2 minutes and	A A A A A A A A A A A A A A A A A A A	5	
40 30								
20								
10 -								
0.0 247	5.000			(MHz)				2500.0
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	*	2483.500	60.28	-10.88	49.40	74.00	-24.60	peak
2		2488.685	57.47	-10.89	46.58	74.00	-27.42	peak
-	-	2491.585	56.67	-10.89	45.78	74.00	-28.22	peak
3		2494.608	53.78	-10.87	42.91	74.00	-31.09	peak
3		2404.000				11111111111		
1		2496.960	54.02	-10.88	43.14	74.00	-30.86	peak

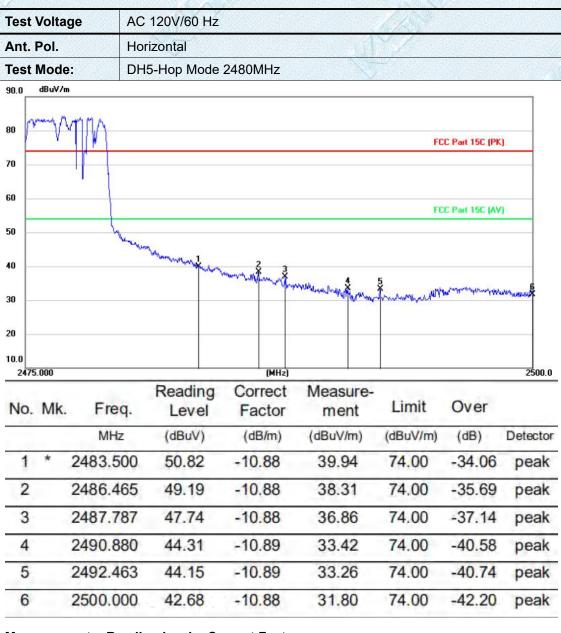




TRF No. Part 15 Subpart C Section 15.247_R1 Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

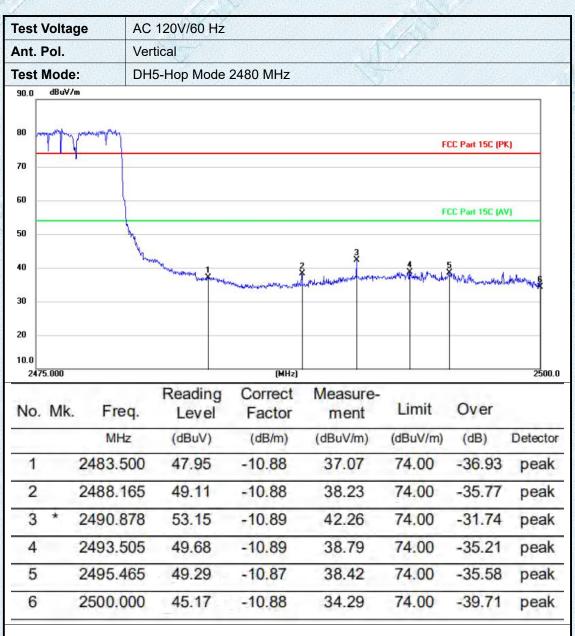


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Measurement = Reading level + Correct Factor

KSIGN®



Measurement = Reading level + Correct Factor

# 3.9. Radiated Spurious Emissions

## <u>Limit</u>

#### Radiated Emission Limits (9 kHz~1000 MHz)

Frequency (MHz)	Field Strength (microvolt/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

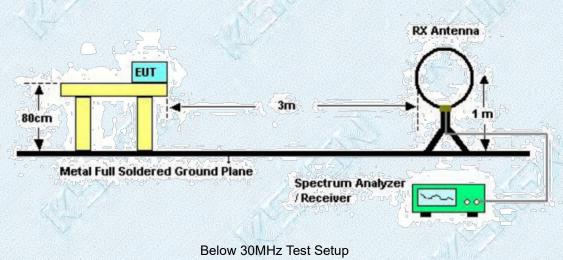
#### Radiated Emission Limit (Above 1000MHz)

Frequency	Distance Meters(at 3m)					
(MHz)	Peak	Average				
Above 1000	74	54				

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

# Test Configuration

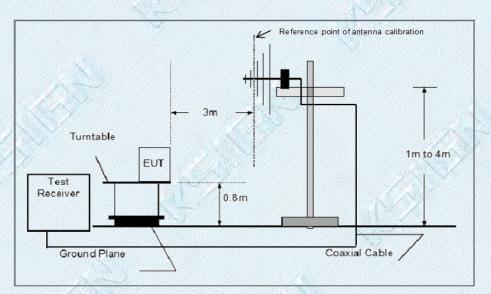


TRF No. Part 15 Subpart C Section 15.247_R1

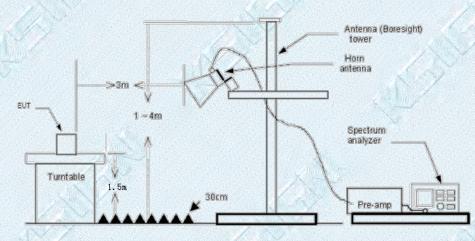
Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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Below 1000MHz Test Setup



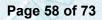
Above 1GHz Test Setup

#### Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.

TRF No. Part 15 Subpart C Section 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China





- 6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:
  - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value. RBW=1MHz, VBW=10Hz Peak detector for Peak value.

#### Test Mode

Please refer to the clause 2.2.

#### Test Result

#### 9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

#### Note:

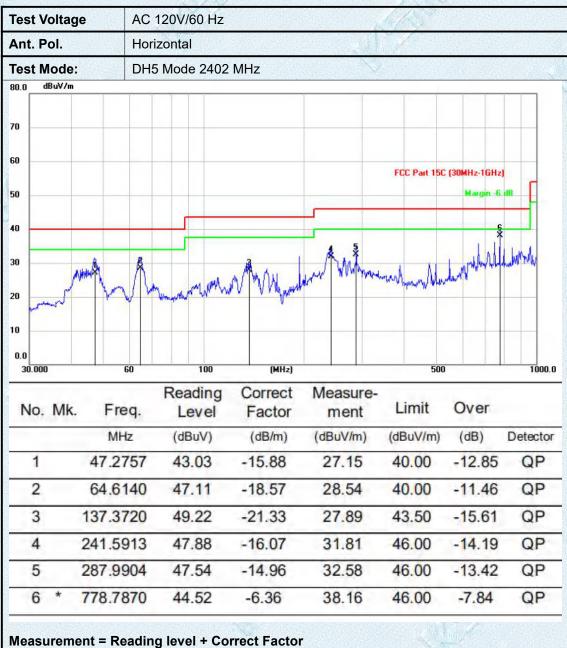
- Measurement = Reading level + Correct Factor
  Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5) Pre-scan DH5, 2DH5 and 3DH5 modulation, found the DH5-CH00 Channel Below 1GHz and found the DH5 modulation which it is worse case for above 1GHz, so only show the test data for worse case.

#### RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

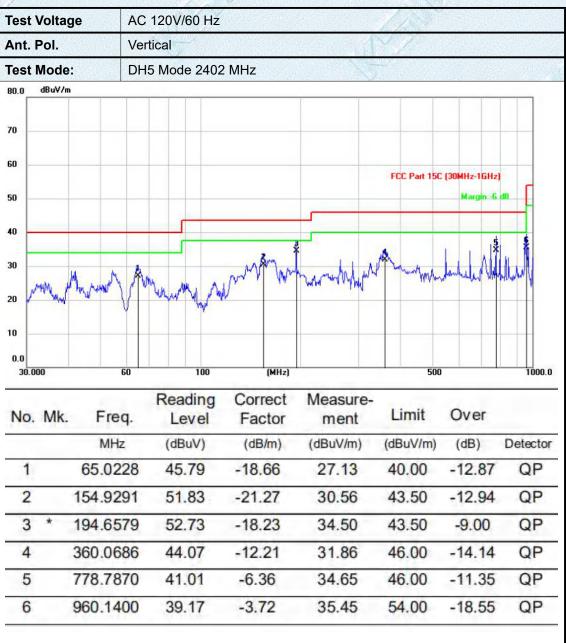


## 30MHz-1GHz



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## Adobe 1GHz

Test Volt	lage	AC 1	20V/60 Hz		- P	Charles -		
Ant. Pol.		Horiz	zontal					
Test Mo	de:	TX D	OH5 Mode 2	2402MHz	N			
100.0 dBu\	//m			F	T T T	1 1 1		
90								
BO							FCC Part 15C (PK	n
70								
50						-	FCC Part 15C (AV	0
50					. 4	5	nounderstand	Same
0			Ť	Ž	manda	mannen	and an all and a second se	
0 obereaster	human	manut	man when when the	combinet all a main a second				
:0								
10								
0.0				(MHz)		8000		1800
No. M	k. Fre		Reading Level	Correct Factor	Measure-	Limit	Over	
			LOVUI	Factor	ment			
	MH	z	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detecto
1	2402.5	¥	TRUTT!	NULTER AN	are derived	(dBuV/m) 74.00	(dB) -32.53	10000
1 2	110.1	600	(dBuV)	(dB/m)	(dBuV/m)		21 J	peal
	2402.5	500 000	(dBuV) 52.38	(dB/m) -10.91	(dBuV/m) 41.47	74.00	-32.53	peal peal
2	2402.5 3737.0	500 000 00	(dBuV) 52.38 49.93	(dB/m) -10.91 -9.09	(dBuV/m) 41.47 40.84	74.00 74.00	-32.53 -33.16	peal peal peal
2 3	2402.5 3737.0 4949.1	500 000 00 700	(dBuV) 52.38 49.93 47.38	(dB/m) -10.91 -9.09 -5.52	(dBuV/m) 41.47 40.84 41.86	74.00 74.00 74.00	-32.53 -33.16 -32.14	Detecto peal peal peal peal peal

Measurement = Reading level + Correct Factor

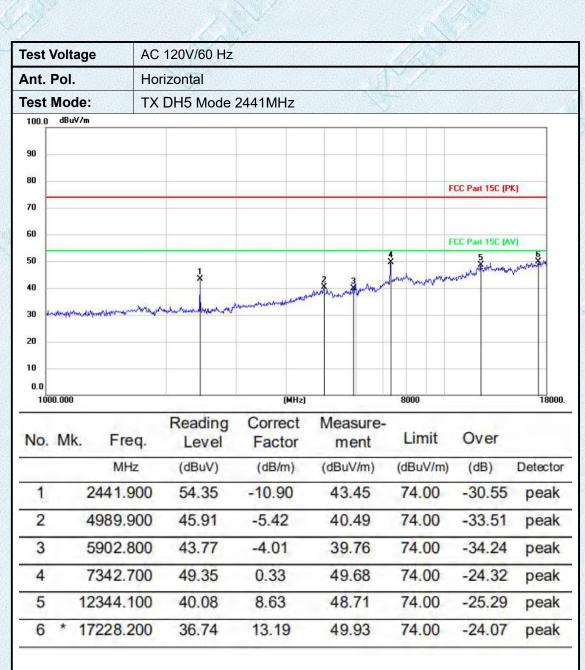
TRF No. Part 15 Subpart C Section 15.247_R1 Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



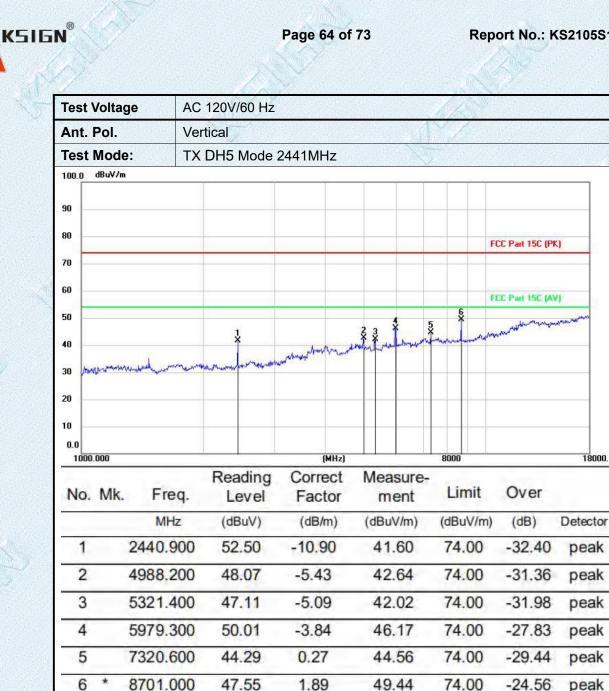
Test	Voltage	AC	120V/60 Hz			6/200		
Ant.	Pol.	Ver	tical			$\sim l$		
Test	Mode:	ТХ	DH5 Mode	2402MHz	X	T.		
100.0 Г	dBuV/m		1		E E E		7	
90								
80	-						FCC Part 15C (F	<b>PK)</b>
70								
60							FCC Part 15C (/	V)
50	-				4	5 ¥	mar de marte	mouth maket
40			1 .	. 3	× · · · · · · · · · · · · · · · · · · ·	homemon	Naver all a start	
30	and the second with the second	the state of	- 11 mary man	have my intersor	human			
		and the second						
20								
10								
0.0								
	00.000			(MHz)		8000		18000.
No		Freq	Reading	Correct	Measure-		Over	18000.
No.	Mk.	Freq.	Level	Correct Factor	ment	Limit	Over	
	Mk.	MHz	Level (dBuV)	Correct Factor (dB/m)	ment (dBuV/m)	Limit (dBuV/m)	(dB)	Detector
No.	Mk.		Level	Correct Factor	ment	Limit		
	Mk. 24	MHz	Level (dBuV)	Correct Factor (dB/m)	ment (dBuV/m)	Limit (dBuV/m)	(dB)	Detector
1	Mk. 24 30	MHz 02.500	Level (dBuV) 47.97	Correct Factor (dB/m) -10.91	ment (dBuV/m) 37.06	Limit (dBuV/m) 74.00	(dB) -36.94	Detector peak
1	Mk. 24 30 37	MHz 02.500 00.900	Level (dBuV) 47.97 46.12	Correct Factor (dB/m) -10.91 -10.59	ment (dBuV/m) 37.06 35.53	Limit (dBuV/m) 74.00 74.00	(dB) -36.94 -38.47	Detector peak peak
1 2 3	Mk. 244 300 373 46	MHz 02.500 00.900 31.900	Level (dBuV) 47.97 46.12 46.22	Correct Factor (dB/m) -10.91 -10.59 -9.09	ment (dBuV/m) 37.06 35.53 37.13	Limit (dBuV/m) 74.00 74.00 74.00	(dB) -36.94 -38.47 -36.87	Detector peak peak peak

TRF No. Part 15 Subpart C Section 15.247_R1 Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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Measurement = Reading level + Correct Factor



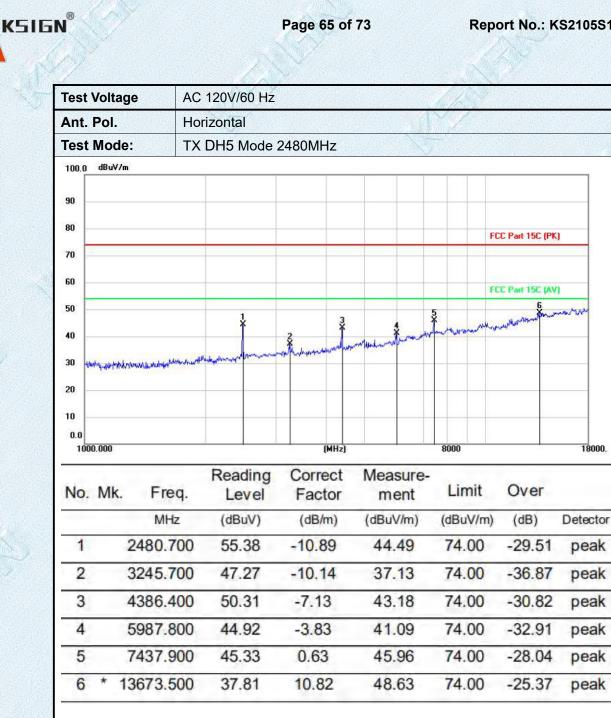
1.89

49.44

74.00

peak

Measurement = Reading level + Correct Factor



TRF No. Part 15 Subpart C Section 15.247 R1 Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



Contractor (Contractor)	CONTRACT AND AND		State of the second second	and the second states of the	18 - 7 - 18 J - 18 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7 - 9 - 7	States and States	
AC	; 120V/60 Hz			12			
Ve	rtical			$\sim 2$			
ТХ	DH5 Mode	2480MHz	X				
		T. F.					
					CC Part 15C (P	K)	
						C	
	1 ×			4 5 * <b>\$</b>	and the second second	Malthe	
			and an and met	wowner	where the second se		
Municipal and Man	and white man	monterestime					
and the second of the	A BURNEY						
		(MHz)		8000		1800	
	Reading	Correct	Measure-				
Freq.	Level	Factor	ment	Limit	Over		
MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detecto	
80.200	58.25	-10.89	47.36	74.00	-26.64	peak	
88.200	47.22	-5.43	41.79	74.00	-32.21	peak	
92.900	47.15	-3.81	43.34	74.00	-30.66	peak	
37.900	46.98	0.63	47.61	74.00	-26.39	peak	
	Ve ТХ ТХ Болго 80.200 88.200 92.900	Reading Freq. Level MHz (dBuV) 80.200 58.25 88.200 47.22 92.900 47.15	Vertical        TX DH5 Mode 2480MHz        Image: state	Vertical        TX DH5 Mode 2480MHz        Image: state s	Vertical      TX DH5 Mode 2480MHz        TX DH5 Mode 2480MHz      Image: Constant of the second of the secon	Vertical      TX DH5 Mode 2480MHz        TX DH5 Mode 2480MHz      FCC Part 15C [Pl        FCC Part 15C [Pl      FCC Part 15C [Pl        Image: Process of the second	

39.57

15417.700

#### Note:

6 *

All test modes had been tested. The GFSK(DH5) modulation is the worst case and recorded in the report.

11.98

51.55

74.00

-22.45

peak

TRF No. Part 15 Subpart C Section 15.247_R1

Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



# 3.10. Conducted Emission

#### Limit

#### **Conducted Emission Test Limit**

Enclose	Maximum RF Lin	e Voltage (dBμV)	
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

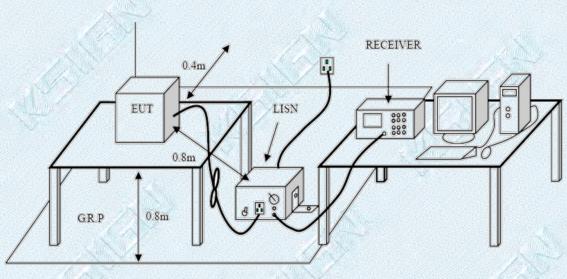
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### Test Configuration



#### Test Procedure

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

#### Test Mode:

Please refer to the clause 2.2

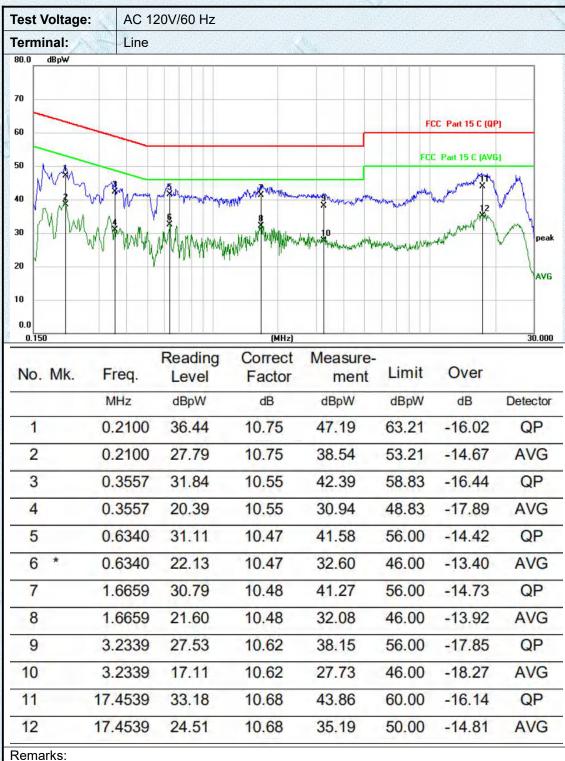
TRF No. Part 15 Subpart C Section 15.247_R1

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## Test Results

Pre-scan DH5, 2DH5,3DH5 modulation, and found the DH5 modulation 2402MHz which it is worse case, so only show the test data for worse case.

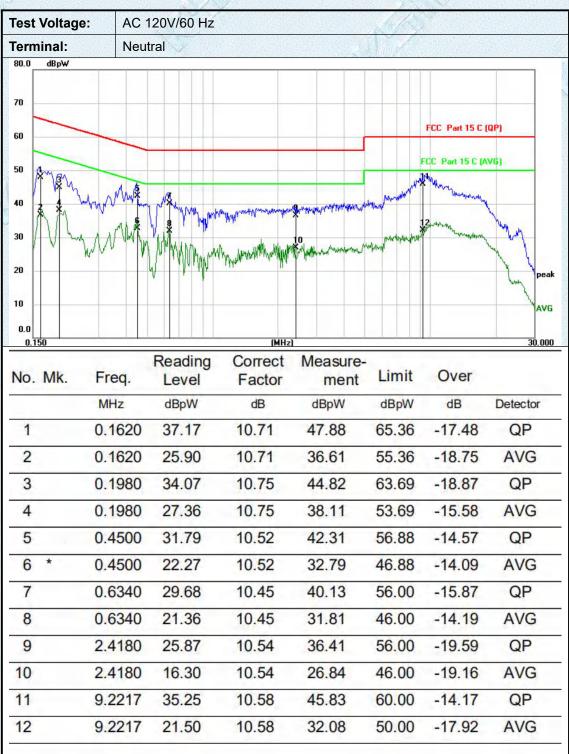


1.Measurement = Reading Level+ Correct Factor

2.Over = Measurement -Limit

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Remarks:

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1.Measurement = Reading Level+ Correct Factor

2.Over = Measurement -Limit

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# 3.11. Pseudorandom Frequency Hopping Sequence

#### LIMIT

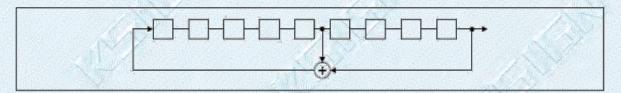
FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Al-ternatively, 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their cor-responding transmitters and shall shift frequencies in synchronization with the transmitted signals.

#### TEST RESULTS

The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage.And the result is fed back to the input of the friststage.The sequence begins with the frist one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An explame of pseudorandom frequency hopping sequence as follows:

0	2	4	6	1251	52	78	1	73	75 77
								No.	No.

Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

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# **4.EUT TEST PHOTOS**

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Radiated Measurement (Above 1GHz)





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#### RF Conducted



CONDUCTED EMISSION TEST SETUP



# **5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL**

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Please refer to Test Report NO.KS2105S1271E01 External Photographs and Internal Photographs