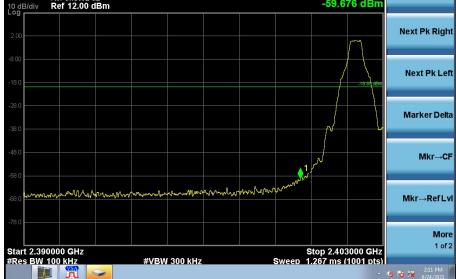


#### Test Model Band-edge Conducted Emissions Bluetooth with classic mode Channel 0: 2402MHz GFSK Image: Second Conducted Emissions Channel 0: 2402MHz Figure Conducted Emissions GFSK Image: Second Conducted Emissions Channel 0: 2402MHz GFSK Image: Second Conducted Emissions Channel 0: 2402MHz Figure Conducted Emissions GFSK Image: Second Conducted Emissions Channel 0: 2402MHz Figure Conducted Emissions Conducted Emissions Figure Cond Emissions Figure Cond Emissions Figure Conducted Emissions Figure



### **Test Model**

Maximum Conduceted Level RBW=100kHz Bluetooth with classic mode Channel 39: 2441MHz GFSK



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#### **Test Model**

Maximum Conduceted Level RBW=100kHz Bluetooth with classic mode Channel 78: 2480MHz GFSK



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**Test Model** 

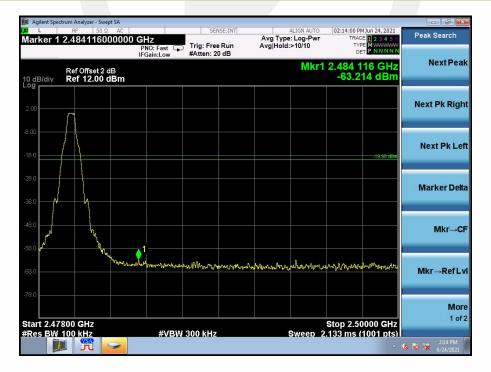
Conduceted Spurious RF Conducted Emission Bluetooth with classic mode GFSK Channel 78: 2480MHz



**Test Model** 

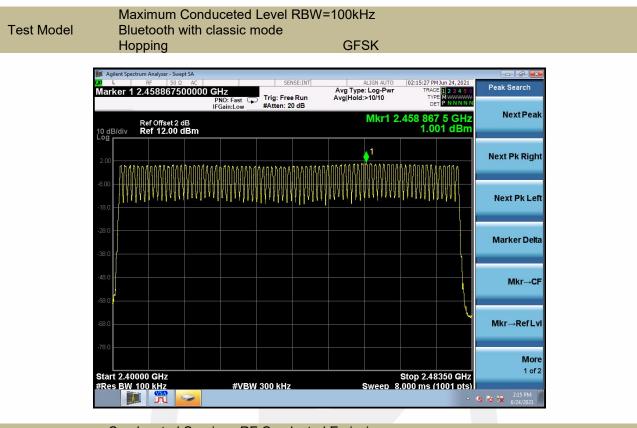
Channel 78: 2480MHz

GFSK



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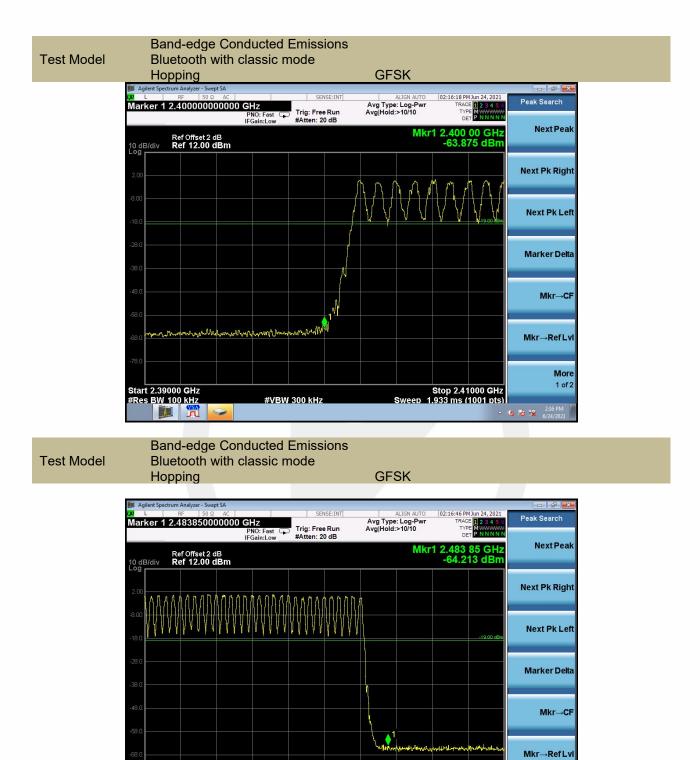
Test Model

Conduceted Spurious RF Conducted Emission Bluetooth with classic mode Hopping GFSK



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#VBW 300 kHz

EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn

Start 2.45000 GHz #Res BW 100 kHz

m

Sweep

More 1 of 2

🌜 🔯 🗽 2:16 PM

Stop 2.50000 GHz

4.800 ms (1001 pts)



# 9.7 RADIATED SPURIOUS EMISSION

### 9.7.1 Applicable Standard

#### According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 MEAS GUIDANCE V05r02

#### 9.7.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to 1 00 1 art 10.			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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

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

## 9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

#### 9.7.4 Test Procedure

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

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

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

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

 $VBW \ge RBW$ Sweep = auto

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Detector function = peak Trace = max hold For Below 1GHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 100 kHz for  $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 30MHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 9kHz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 150KHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 200Hz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT,

measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate

compliance with the 15.209 limit. Submit this data. Repeat above procedures until all frequency measured was complete.

# 9.7.5 Test Results

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

Temperature:	26°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Freq. (MHz)	Ant.Pol.	Emis Level(d	sion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
	H/V	PK	AV	PK	AV	PK	AV	

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

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

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

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

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK) was report as below: Test mode: GFSK Frequency: Channel 0: 2402MHz

Freq.	Ant.Pol.		sion BuV/m)	Limit 3m	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK È	ÁÝ	PK	AV	PK	AV	
5579.218	V	47.00	36.87	74	54	-27.00	-17.13	
12067.17	V	56.49	45.39	74	54	-17.51	-8.61	
14938.51	V	57.64	46.82	74	54	-16.36	-7.18	
4801.334	Н	46.98	35.36	74	54	-27.02	-18.64	
7056.092	Н	52.21	40.97	74	54	-21.79	-13.03	
13723.5	Н	58.29	48.13	74	54	-15.71	-5.87	

Test mode:

GFSK

Frequency:

Channel 39: 2441MHz

Ant Dol	Emission Lov	al(dDu)//m)	Limit 2m		Over(dB)		
AIILFUI.	Emission Level(ubuv/m)			ubuv/III)			
H/V	PK	AV	PK	AV	PK	AV	
V	47.12	35.36	74	54	-26.88	-18.64	
V	54.63	43.91	74	54	-19.37	-10.09	
V	57.86	46.27	74	54	-16.14	-7.73	
Н	46.49	37.61	74	54	-27.51	-16.39	
H	56.77	45.93	74	54	-17.23	-8.07	
H	57.45	46.82	74	54	-16.55	-7.18	
	V V V H H	H/V   PK     V   47.12     V   54.63     V   57.86     H   46.49     H   56.77	H/V   PK   AV     V   47.12   35.36     V   54.63   43.91     V   57.86   46.27     H   46.49   37.61     H   56.77   45.93	H/VPKAVPKV47.1235.3674V54.6343.9174V57.8646.2774H46.4937.6174H56.7745.9374	H/VPKAVPKAVV47.1235.367454V54.6343.917454V57.8646.277454H46.4937.617454H56.7745.937454	H/VPKAVPKAVPKV47.1235.367454-26.88V54.6343.917454-19.37V57.8646.277454-16.14H46.4937.617454-27.51H56.7745.937454-17.23	

Test mode: GFSK

Frequency:

Channel 78: 2480MHz

Freq.	Ant.Pol.		ssion BuV/m)	Limit 3m(	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
5477.752	V	47.08	36.81	74	54	-26.92	-17.19	
11392.67	V	56.09	45.21	74	54	-17.91	-8.79	
14193.48	V	57.79	46.93	74	54	-16.21	-7.07	
7090.848	Н	51.87	42.82	74	54	-22.13	-11.18	
11382.79	Н	55.39	43.51	74	54	-18.61	-10.49	
14852.4	Н	56.98	45.19	74	54	-17.02	-8.81	

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

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

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

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

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz Bluetooth (GFSK, pi/4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst result(GFSK, Hopping) was report as below:

Test mode:	node: GFSK		Frequency:	С	hannel 0: 2402MH	lz	
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2383.864	Н	49.95	74	-24.05	32.73	54	-21.27
2385.036	V	44.53	74	-29.47	31.25	54	-22.75

Test mode: GFSK

Frequency:

Channel 78: 2480MHz

Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2486.354	Н	41.87	74	-32.13	30.11	54	-23.89
2484.135	V	41.39	74	-32.61	30.27	54	-23.73

Test mode: GFSK

Frequency:

cy: Hopping

Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)
2390.000	Н	39.16	74	-34.84	30.28	54	-23.72
2483.500	Н	40.48	74	-33.52	30.19	54	-23.81
2390.000	V	38.82	74	-35.18	29.75	54	-24.25
2483.500	V	38.51	74	-35.49	30.13	54	-23.87

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

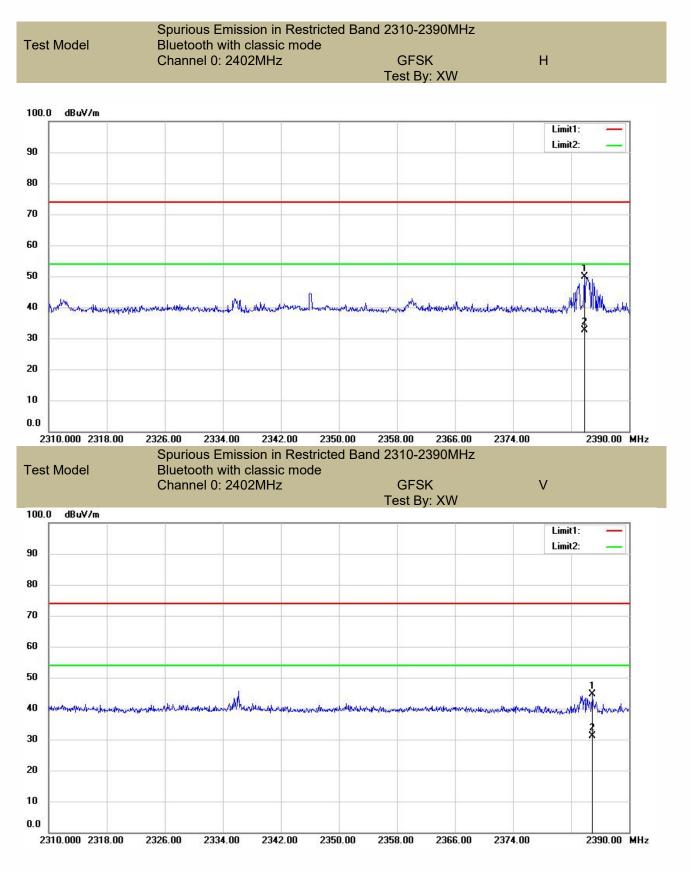
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

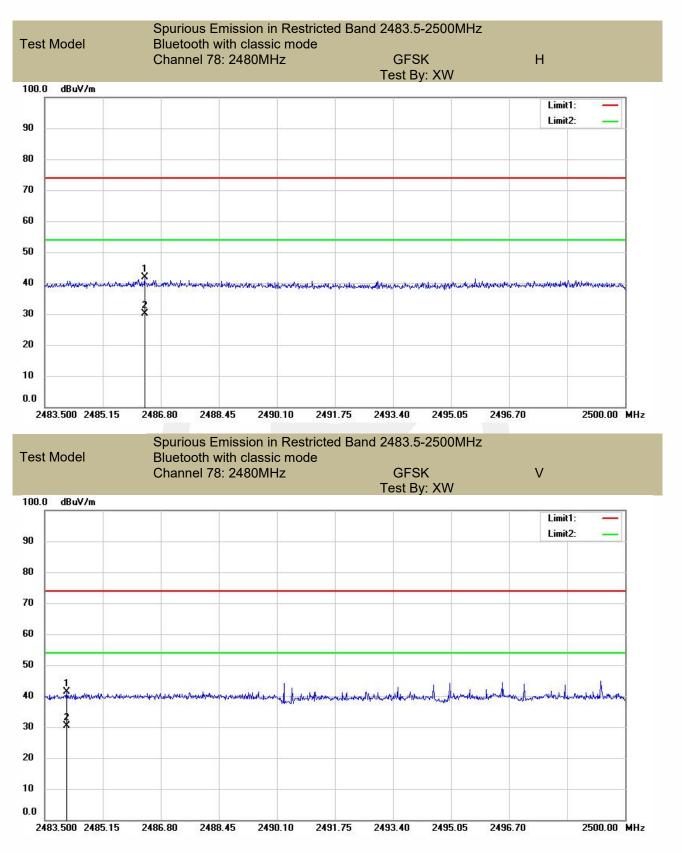
(4)The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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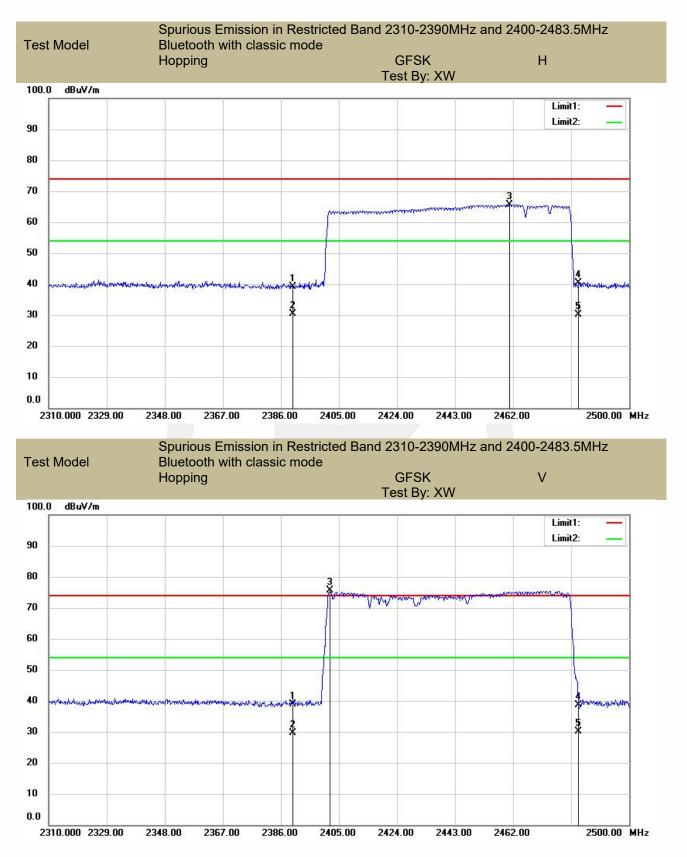








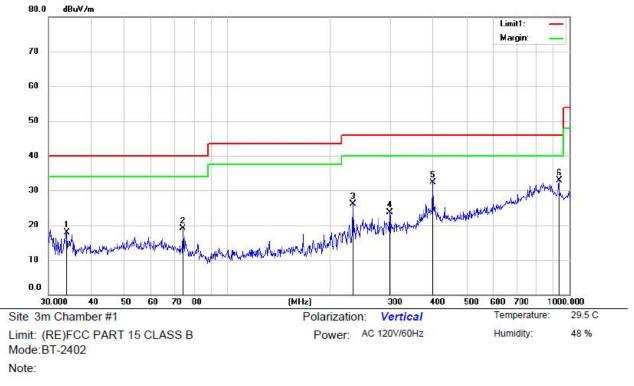






#### Spurious Emission below 1GHz(30MHz to 1GHz)

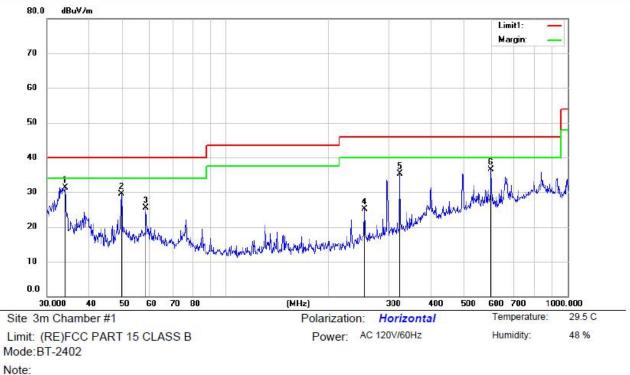
All Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) modes have been tested, and the worst results has been recorded on the follow page.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		34.0067	32.00	-14.14	17.86	40.00	-22.14	QP			
2		74.2652	33.11	-14.04	19.07	40.00	-20.93	QP			
3		232.6338	38.64	-12.46	26.18	46.00	-19.82	QP			
4	ġ	299.0536	32.73	-9.03	23.70	<u>46.00</u>	-22.30	QP			
5	8	400.0810	38.66	-6.35	32.31	46.00	-13.69	QP			
6	*	932.6803	32.40	0.48	32.88	46.00	-13.12	QP			

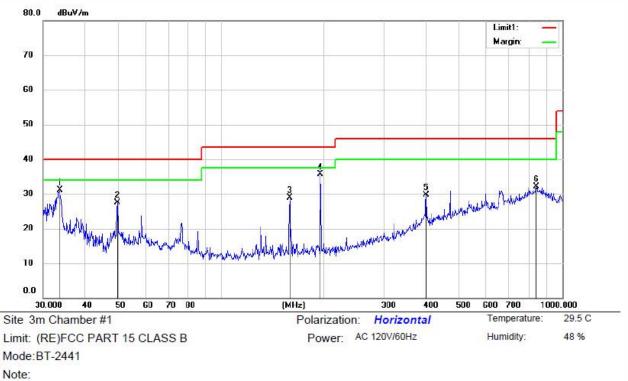
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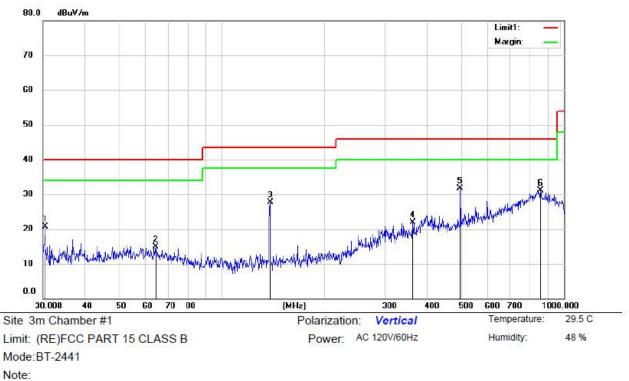
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	2
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	33.9918	45.50	-14.14	31.36	40.00	-8.64	QP			
2		49.5762	41.65	-12.11	29.54	40.00	-10.46	QP			
3		58.4331	37.48	-12.07	25.41	40.00	-14.59	QP			
4		255.3992	36.28	-11.11	25.17	46.00	- <mark>20.8</mark> 3	QP			
5		323.4621	43.87	-8.58	35.29	46.00	-10.71	QP			
6		598.2713	39.50	-2.93	36.57	46.00	-9.43	QP			





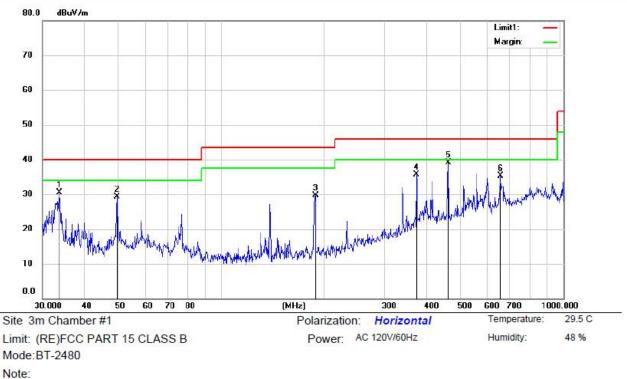
No.	Mk.	k. Freq.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		33.6361	45.21	-14.20	31.01	40.00	-8.99	QP				
2		49.5762	39.69	- <mark>12</mark> .11	27.58	40.00	-12.42	QP				
3		159.0856	42.78	-13.88	28.90	43.50	-14.60	QP				
4	*	195.6504	49.23	-13.50	35.73	43.50	-7.77	QP				
5	ŝ	399.5552	35.98	-6.37	29.61	46.00	-16.39	QP				
6	1	840.2860	29.34	2.86	32.20	46.00	-13.80	QP				





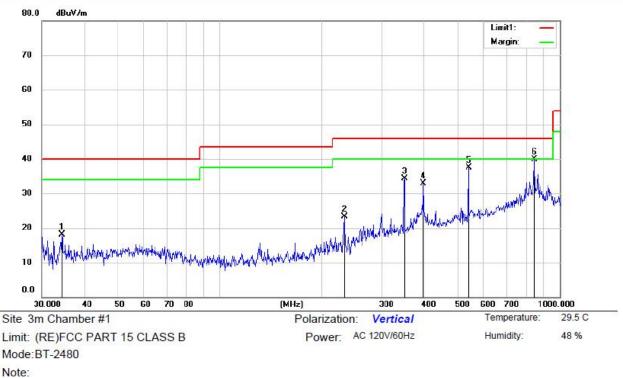
No.	Mk.	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.4638	35.33	- <mark>14.5</mark> 6	20.77	40.00	- <mark>1</mark> 9.23	QP			
2		63.9828	27.06	-12.08	14.98	40.00	-25.02	QP			
3		138.5087	42.05	-14.37	27.68	43.50	-15.82	QP			
4		362.5075	29.36	-7.38	21.98	46.00	-24.02	QP			
5	*	497.6765	36.76	-5.05	31.71	46.00	-14.29	QP			
6		855.5234	28.64	2.52	31.16	46.00	-14.84	QP			





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	5
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		33.7542	44.75	-14.19	30.56	40.00	-9 <mark>.4</mark> 4	QP			
2		49.5762	41.42	-12.11	29.31	40.00	-10.69	QP			
3		188.4125	43.47	-13.81	29.66	43.50	-13.84	QP			
4		372.8206	42.81	-7.20	35.61	46.00	-10.39	QP			
5	*	460.9291	44.96	-5.89	39.07	46.00	-6.93	QP			
6		654.8056	37.05	-1.70	35.35	46.00	-10.65	QP			





No. N	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.00	34.4870	32.15	-13.99	<mark>18.16</mark>	40.00	-21.84	QP			
2	2	33.2464	35.64	-12.43	23.21	46.00	-22.79	QP			
3	3	49.2500	42.07	-7.67	34.40	46.00	-11.60	QP			
4	3	98.6805	39.29	-6.40	32.89	46.00	- <mark>13.11</mark>	QP			
5	5	40.8981	41.95	-4.42	37.53	46.00	-8.47	QP			
6 '	* 8	42.8681	37.03	2.88	39.91	46.00	-6.09	QP			

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# 9.8 CONDUCTED EMISSION TEST

## 9.8.1 Applicable Standard

According to FCC Part 15.207(a)

## 9.8.2 Conformance Limit

Conducted Emission Limit								
Frequency(MHz) Quasi-peak Average								
0.15-0.5 66-56 56-46								
0.5-5.0 56 46								
5.0-30.0 60 50								
Note: 1. The lower limit shall apply at the transition frequencies								

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

# 9.8.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

# 9.8.4 Test Procedure

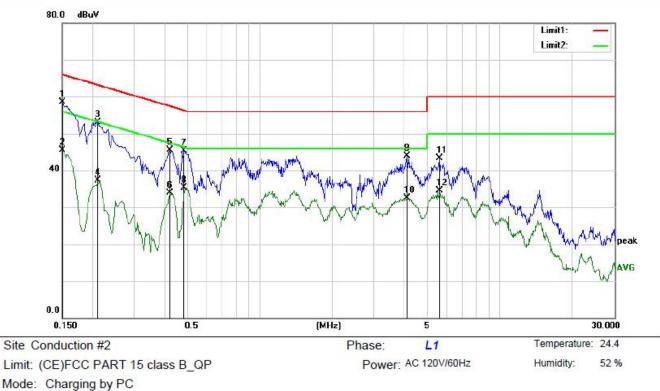
The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

# 9.8.5 Test Results

Pass

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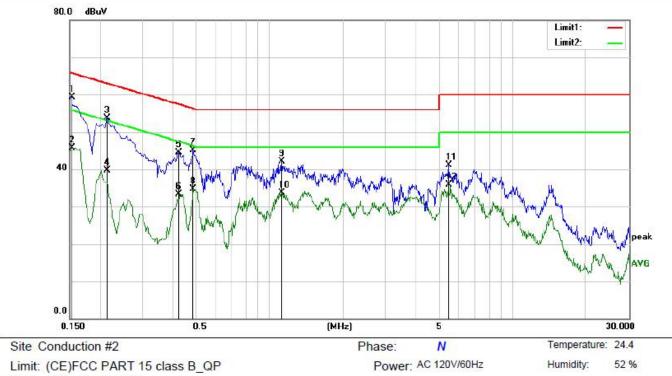


Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	48.05	10.48	58.53	66.00	-7.47	QP	
2		0.1500	35.11	10.48	45.59	56.00	-10.41	AVG	
3		0.2104	42.71	10.43	53.14	63.19	-10.05	QP	
4		0.2104	26.83	10.43	37.26	53.19	-15.93	AVG	
5		0.4220	35.04	10.38	45.42	57.41	-11.99	QP	
6		0.4220	23.43	10.38	33.81	47.41	-13.60	AVG	
7		0.4860	35.00	10.35	45.35	56.24	-10.89	QP	
8		0.4860	24.87	10.35	35.22	46.24	-11.02	AVG	
9		4.1300	33.53	10.45	43.98	56.00	-12.02	QP	
10		4.1300	21.99	10.45	32.44	46.00	-13.56	AVG	
11		5.6020	32.73	10.54	43.27	60.00	-16.73	QP	
12		5.6020	23.99	10.54	34.53	50.00	-15.47	AVG	

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Mode: Charging by PC

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1540	48.76	10.48	59.24	65.70	-6.46	QP	
2		0.1540	35.29	10.48	45.77	55.78	-10.01	AVG	
3		0.2140	43.37	10.43	53.80	62.99	-9.19	QP	
4		0.2140	29.24	10.43	39.67	53.05	- <mark>13.38</mark>	AVG	
5		0.4220	34.15	10.38	44.53	57.40	-12.87	QP	
6		0.4220	22.89	10.38	33.27	47.41	-14.14	AVG	
7		0.4860	34.85	10.35	45.20	56.23	-11.03	QP	
8		0.4860	24.44	10.35	34.79	46.24	-11.45	AVG	
9		1.1220	31.73	10.40	42.13	56.00	-13.87	QP	
10		1.1220	23.27	10.40	33.67	46.00	-12.33	AVG	
11		5.4500	30.51	10.52	41.03	60.00	-18.97	QP	
12		5.4500	25.29	10.52	35.81	50.00	-14.19	AVG	

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## 9.9 ANTENNA APPLICATION

# 9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

## 9.9.2 Result

PASS.

Note:

The EUT is LDS Antenna for BT, the gain is 1.85dBi.

- Antenna use a permanently attached antenna which is not replaceable.
- Not using a standard antenna jack or electrical connector for antenna replacement
- The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

\*\*\* End of Report \*\*\*

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