



# FCC TEST REPORT FCC ID:2ARCP-IRBOX

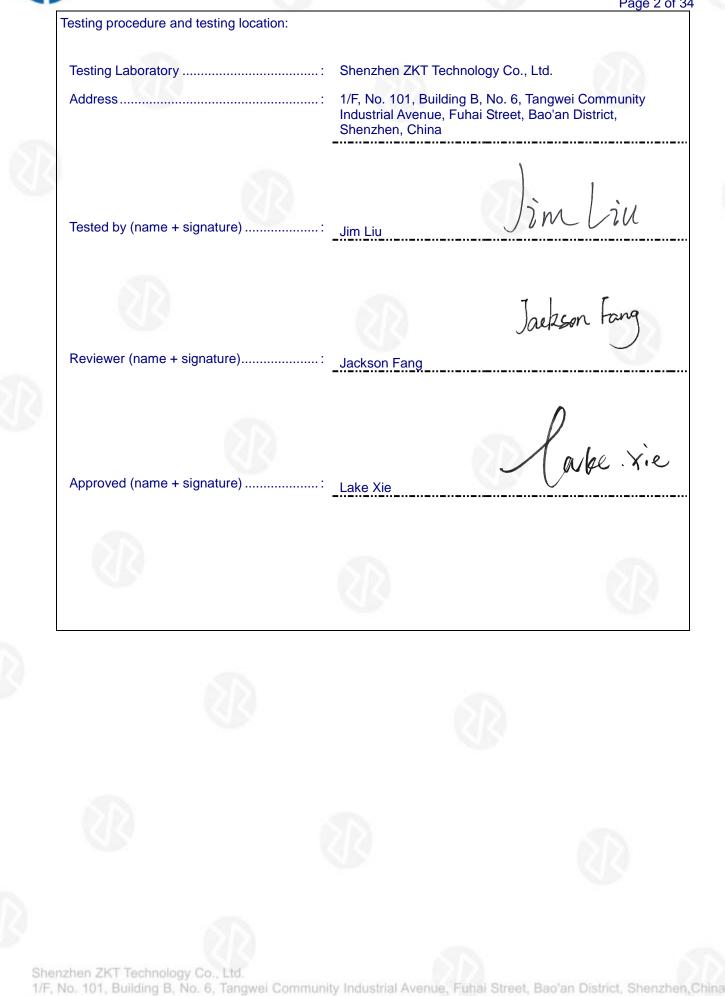
Report Number:	ZKT-241122L16311E-2
Date of Test	Nov. 26, 2024 to Dec. 06, 2024
Date of issue:	Dec. 06, 2024
Total number of pages	34
Test Result	PASS
Testing Laboratory	Shenzhen ZKT Technology Co., Ltd.
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Applicant's name:	Sinco Intelligent Technology Co., Ltd.
Address:	Workshop D-2,Assembly Workshop,North Airport Road, Hongqi Town, Jinwan District,Zhuhai China
Manufacturer's name	Sinco Intelligent Technology Co., Ltd.
Address:	Workshop D-2,Assembly Workshop,North Airport Road, Hongqi Town, Jinwan District,Zhuhai China
Test specification:	
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2013
Test procedure:	1
Non-standard test method	N/A
Test Report Form No	TRF-EL-111_V0
Test Report Form(s) Originator :	ZKT Testing
Master TRF:	Dated: 2022-02-21
test (EUT) is in compliance with the FC identified in the report. This report shall not be reproduced exc	tested by ZKT, and the test results show that the equipment unde C requirements. And it is applicable only to the tested sample cept in full, without the written approval of ZKT, this document may only, and shall be noted in the revision of the document.
Product name:	Guitar Pedal
Trademark:	M-VAVE, Leo Jaymz, LEKATO, Ziron, EROK, Btuty, Kmise, UTIMO
Model/Type reference:	IR BOX, Purple box, SK14
Ratings:	DC 5.0V from adapter or DC 3.7V from Li-battery

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwel Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China







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## **1.VERSION**

		Approved
Rev.01	Initial issue of report	Dec. 06, 2024
-	Rev.01	Rev.01 Initial issue of report







## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.249) , Subpart C					
-	tandard Section	Judgment	Remark			
FCC	part 15.203	Antenna requirement	PASS			
FCC	part 15.207	AC Power Line Conducted Emission	PASS			
FCC part15.249(a)		Field Strength of Fundamental	PASS			
FCC	part 15.249	Fundamental &Radiated Spurious Emission Measurement	PASS	_		
FCC pa	art 15.215 (c)	20dB Channel Bandwidth	PASS	22		
FCC	part 15.205	Band Edge	PASS			

NOTE:

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







#### 2.1 TEST FACILITY

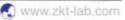
Shenzhen ZKT Technology Co., Ltd. Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225 Designation Number: CN1299 IC Registered No.: 27033

## 2.2 MEASUREMENT UNCERTAINTY

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

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%	





## **3. GENERAL INFORMATION**

# 3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Guitar Pedal
Model No.:	IR BOX
Model Different .:	All the model are the same circuit and RF module, except for product color, appearance, strap type and model named.
Serial No.:	Purple box, SK14
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Modulation Type:	GFSK
Antenna Type:	Internal Antenna
Antenna gain:	3.04dBi
Battery:	N/A
Power supply:	DC 5.0V from adapter or DC 9V













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

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz





## 3.2 DESCRIPTION OF TEST MODES

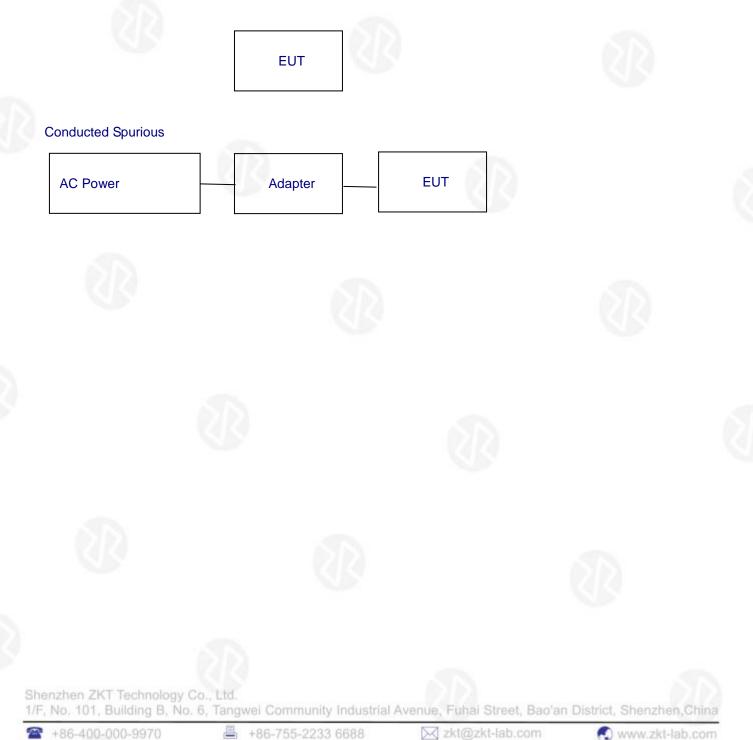
Transmitting mo	e Keep the EUT in continuously transmitting mode
	he test, the test voltage was tuned from 85% to 115% of the nominal rated supply a that the worst case was under the nominal rated supply condition. So the report just tion's data.
Test Software	BT Tool

2 2 BLOCK DICDAM SHOWING THE	CONFIGURATION OF SYSTEM TESTED
3.3 BLOCK DIGRAW SHOWING THE	CONFIGURATION OF STSTEW TESTED

0dBm

## **Radiated Emission**

Power level setup





## 3.4 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	Guitar Pedal	M-VAVE, Leo Jaymz, LEKATO, Ziron, EROK, Btuty, Kmise, UTIMO	IR BOX	/	EUT
A-1	Adapter	N/A	N/A	/	/
	100				

Item	Shielded Type	Ferrite Core	Length	Note
C-1	/	/	/	/

#### 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 <sup>[]</sup>Length<sub>.</sub> column.

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#### Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 30, 2024	Sep. 29, 2025
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 30, 2024	Sep. 29, 2025
3	Test Cable	N/A	C-01	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Sep. 29, 2024	Sep. 28, 2025
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	١	١

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 29, 2024	Sep. 28, 2025
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 30, 2024	Sep. 29, 2025
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Sep. 29, 2024	Sep. 28, 2025
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 30, 2024	Sep. 29, 2025
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 30, 2024	Sep. 29, 2025
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2024	Sep. 29, 2025
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Oct. 11, 2024	Oct. 10, 2025
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 29, 2024	Sep. 28, 2025
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 29, 2024	Sep. 28, 2025
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Sep. 30, 2024	Sep. 29, 2025
11	Test Cable	N/A	R-01	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
12	Test Cable	N/A	R-02	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
13	Test Cable	N/A	R-03	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A		
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	١	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	







## **RF Conducted Test**

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 29, 2024	Sep. 28, 2025
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 30, 2024	Sep. 29, 2025
3	Test Cable	N/A	RF-01	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
4	Test Cable	N/A	RF-02	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
5	Test Cable	N/A	RF-03	N/A	N/A	Sep. 30, 2024	Sep. 29, 2025
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 29, 2024	Sep. 28, 2025
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 29, 2024	Sep. 28, 2025
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 16, 2023	Nov. 15, 2025
9	Van der Hoofden measuring head	Schwarzbeck Mess-elektron ik	VDHH 9502	9502-039	N/A	Sep. 30, 2024	Sep. 29, 2025
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 30, 2024	Sep. 29, 2025
11	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Sep. 29, 2024	Sep. 28, 2025
12	D.C. Power Supply	LongWei	TPR-6405 D	N/A	N/A	\	\
13	RF Software	MW	MTS8310	V2.0.0.0	N/A	1	/









#### 4. EMC EMISSION TEST

## 4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

#### 4.1.1 1POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (d	Standard	
	Quas -peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

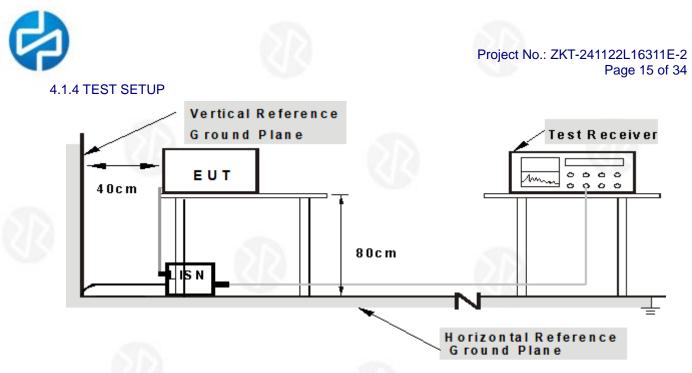
(1) \*Decreases with the logarithm of the frequency.

## 4.1.2 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.

## 4.1.3 DEVIATION FROM TEST STANDARD No deviation





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

## 4.1.5 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.

4.1.6 Test Result

PASS

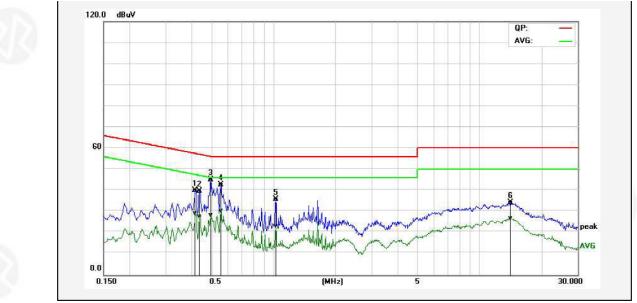
Remark:

1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V was reported. 2. All modes were test at Low, Middle, and High channel, only the worst result of BLE GFSK Low Channel was reported.





Temperature:	26°C	Relative Humidity:	60%
Pressure:	101 kPa	Phase:	Line
Test Voltage:	AC 120V, 60Hz		

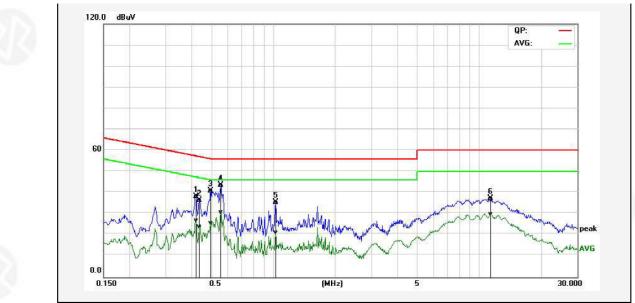


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.4180	29.33	18.35	10.80	40.13	29.15	57.49	47.49	-17.36	-18.34	Pass
2P	0.4380	28.81	17.09	10.81	39.62	27.90	57.10	47.10	-17.48	-19.20	Pass
3*	0.4980	34.47	17.63	10.83	45.30	28.46	56.03	46.03	-10.73	-17.57	Pass
4Ρ	0.5580	32.04	19.73	10.83	42.87	30.56	56.00	46.00	-13.13	-15.44	Pass
5P	1.0300	25.01	12.26	10.91	35.92	23.17	56.00	46.00	-20.08	-22.83	Pass
6P	14.1500	18.73	11.21	15.74	34.47	26.95	60.00	50.00	-25.53	-23.05	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.



Temperature:	26°C	Relative Humidity:	60%
Pressure:	101 kPa	Phase:	Neutral
Test Voltage:	AC 120V, 60Hz		



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1P	0.4220	27.33	16.02	10.80	38.13	26.82	57.41	47.41	-19.28	-20.59	Pass
2P	0.4380	25.75	13.18	10.81	36.56	23.99	57.10	47.10	-20.54	-23.11	Pass
3P	0.4980	30.00	14.89	10.83	40.83	25.72	56.03	46.03	-15.20	-20.31	Pass
4*	0.5580	32.80	19.88	10.83	43.63	30.71	56.00	46.00	-12.37	-15.29	Pass
ЪР	1.0300	24.74	10.27	10.91	35.65	21.18	56.00	46.00	-20.35	-24.82	Pass
6P	11.4300	23.15	15.69	14.21	37.36	29.90	60.00	50.00	-22.64	-20.10	Pass

Remark: Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.



## 4.2 RADIATED EMISSION MEASUREMENT

_									
	Test Requirement:	FCC Part15 C Section 15.209							
	Test Method:	ANSI C63.10:2013	ANSI C63.10:2013						
	Test Frequency Range:	9kHz to 25GHz	9kHz to 25GHz						
	Test site:	Measurement Dista	Measurement Distance: 3m						
	Receiver setup:	Frequency	Detector	RBW	VBW	Value			
		9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak			
		150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak			
		30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak			
			Peak	1MHz	3MHz	Peak			
		Above 1GHz	Peak	1MHz	10Hz	Average			

## 4.2.1 RADIATED EMISSION LIMITS

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

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
FREQUENCT (MITZ)	PEAK	AVERAGE		
Above 1000	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).



#### 4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. 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 semi-chamber test. 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 0.8m; above 1GHz, the height was 1.5m, 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.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

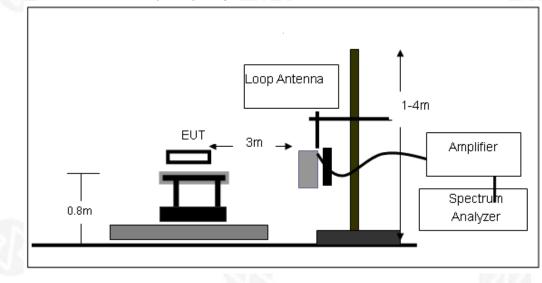
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Note:

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

#### 4.2.3 DEVIATION FROM TEST STANDARD No deviation

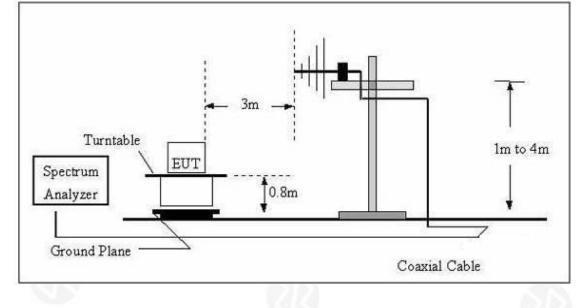
#### 4.2.4 TEST SETUP

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

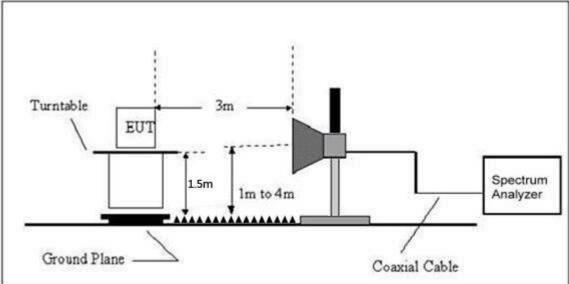




## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



## 4.2.5 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.

4.2.6 TEST RESULTS (Between 9KHz - 30 MHz)

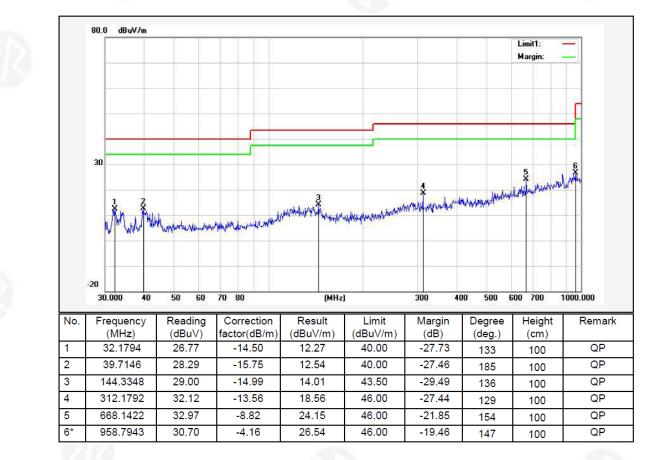
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.





Between 30MHz - 1GHz

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V, 60Hz	142	



Remark: Result = Reading Level + Factor, Margin = Result- Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier

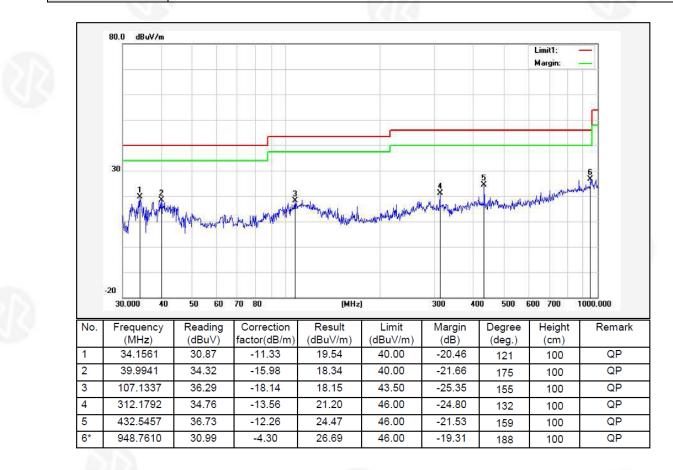
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Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	AC 120V, 60Hz		2.12



Remark: Result = Reading Level + Factor, Margin = Result – Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier



## GFSK 1GHz~25GHz

GESK	(1GHz~25GF					-			
Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			GFS	SK: Low	Channel:24	02MHz			
V	4804	54.71	30.55	5.77	24.66	54.59	74.00	-19.41	Pk
V	4804	43.84	30.55	5.77	24.66	43.72	54.00	-10.28	AV
V	7206	51.22	30.33	6.32	24.55	51.76	74.00	-22.24	Pk
V	7206	43.91	30.33	6.32	24.55	44.45	54.00	-9.55	AV
V	9608	52.52	30.85	7.45	24.69	53.81	74.00	-20.19	Pk
V	9608	42.88	30.85	7.45	24.69	44.17	54.00	-9.83	AV
V	12010	52.71	31.02	8.99	25.57	56.25	74.00	-17.75	Pk
V	12010	43.31	31.02	8.99	25.57	46.85	54.00	-7.15	AV
Н	4804	52.44	30.55	5.77	24.66	52.32	74.00	-21.68	Pk
H	4804	43.42	30.55	5.77	24.66	43.30	54.00	-10.70	AV
H	7206	53.77	30.33	6.32	24.55	54.31	74.00	-19.69	Pk
Н	7206	42.01	30.33	6.32	24.55	42.55	54.00	-11.45	AV
Н	9608	52.69	30.85	7.45	24.69	53.98	74.00	-20.02	Pk
H	9608	43.72	30.85	7.45	24.69	45.01	54.00	-8.99	AV
Η	12010	54.88	31.02	8.99	25.57	58.42	74.00	-15.58	Pk
Н	12010	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV
			-						
	Frequency	Meter Pre-ampli	Cable	Antenna	Emission	Limits	Margin		
Polar	Frequency	Reading	fier	Loss	Factor	Level	LIIIIIS	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)		$(d\mathbf{Pu})/m$	(dBuV/m)		Туре
GFSK: Middle Channel:2441MHz									
	(	(uduv)			(dB) e Channel:2	(dBuV/m) 441MHz	(ubuv/iii)	(dB)	
V	4880	(dBuV) 54.66				· · · · · · · · · · · · · · · · · · ·	74.00	(dB) -19.46	Pk
V V		、 ,	GFS	K: Middle	Channel:2	441MHz			Pk AV
	4880	54.66	GFS 30.55	K: Middle 5.77	Channel:2 24.66	441MHz 54.54	74.00	-19.46	
V	4880 4880	54.66 43.44	GFS 30.55 30.55	K: Middle 5.77 5.77	e Channel:2 24.66 24.66	441MHz 54.54 43.32	74.00 54.00	-19.46 -10.68	AV
V V	4880 4880 7320	54.66 43.44 53.22	GFS 30.55 30.55 30.33	K: Middle 5.77 5.77 6.32	Channel:2 24.66 24.66 24.55	441MHz 54.54 43.32 53.76	74.00 54.00 74.00	-19.46 -10.68 -20.24	AV Pk
V V V	4880 4880 7320 7320	54.66 43.44 53.22 43.63	GFS 30.55 30.55 30.33 30.33	K: Middle 5.77 5.77 6.32 6.32	Channel:2 24.66 24.66 24.55 24.55	441MHz 54.54 43.32 53.76 44.17	74.00 54.00 74.00 54.00	-19.46 -10.68 -20.24 -9.83	AV Pk AV
V V V V	4880 4880 7320 7320 9760	54.66 43.44 53.22 43.63 53.95	GFS 30.55 30.55 30.33 30.33 30.33 30.85	K: Middle 5.77 5.77 6.32 6.32 7.45	Channel:2 24.66 24.66 24.55 24.55 24.55 24.69	441MHz 54.54 43.32 53.76 44.17 55.24	74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76	AV Pk AV Pk
V V V V V	4880 4880 7320 7320 9760 9760	54.66 43.44 53.22 43.63 53.95 43.87	GFS 30.55 30.55 30.33 30.33 30.85 30.85	K: Middle 5.77 5.77 6.32 6.32 7.45 7.45	Channel:2 24.66 24.66 24.55 24.55 24.69 24.69	441MHz 54.54 43.32 53.76 44.17 55.24 45.16	74.00 54.00 74.00 54.00 74.00 54.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84	AV Pk AV Pk AV
V V V V V	4880 4880 7320 7320 9760 9760 12200	54.66 43.44 53.22 43.63 53.95 43.87 52.70	GFS 30.55 30.55 30.33 30.33 30.85 30.85 30.85 31.02	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99	Channel:2 24.66 24.55 24.55 24.55 24.69 24.69 25.57	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24	74.00 54.00 74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76	AV Pk AV Pk AV Pk
V V V V V V	4880 4880 7320 7320 9760 9760 12200 12200	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53	GFS 30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99	Channel:2 24.66 24.55 24.55 24.55 24.69 24.69 25.57 25.57	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93	AV Pk AV Pk AV Pk AV
>         >         >         >         >         >         +	4880 4880 7320 7320 9760 9760 12200 12200 4880	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66	GFS 30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02 30.55	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77	Channel:2 24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54 43.59	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46	AV Pk AV Pk AV Pk AV Pk
>     >     >     >     >     >     + <t< td=""><td>4880 4880 7320 7320 9760 9760 12200 12200 4880 4880</td><td>54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71</td><td>GFS 30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02 30.55 30.55</td><td>K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77</td><td>Channel:2 24.66 24.55 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66</td><td>441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54</td><td>74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00</td><td>-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41</td><td>AV Pk AV Pk AV Pk AV Pk AV</td></t<>	4880 4880 7320 7320 9760 9760 12200 12200 4880 4880	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71	GFS 30.55 30.55 30.33 30.33 30.85 30.85 31.02 31.02 30.55 30.55	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77	Channel:2 24.66 24.55 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41	AV Pk AV Pk AV Pk AV Pk AV
>     >     >     >     >     >     + <t< td=""><td>4880 4880 7320 7320 9760 9760 12200 12200 4880 4880 7320</td><td>54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71 52.04 43.15</td><td>GFS 30.55 30.55 30.33 30.33 30.85 30.85 30.85 31.02 31.02 30.55 30.55 30.33 30.33</td><td>K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32 6.32</td><td>Channel:2 24.66 24.55 24.55 24.55 24.69 25.57 25.57 25.57 24.66 24.66 24.55 24.55</td><td>441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 45.16 56.24 47.07 50.54 43.59 52.58 43.69</td><td>74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00</td><td>-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41 -21.42</td><td>AV Pk AV Pk AV Pk AV Pk AV Pk</td></t<>	4880 4880 7320 7320 9760 9760 12200 12200 4880 4880 7320	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71 52.04 43.15	GFS 30.55 30.55 30.33 30.33 30.85 30.85 30.85 31.02 31.02 30.55 30.55 30.33 30.33	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32 6.32	Channel:2 24.66 24.55 24.55 24.55 24.69 25.57 25.57 25.57 24.66 24.66 24.55 24.55	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 45.16 56.24 47.07 50.54 43.59 52.58 43.69	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41 -21.42	AV Pk AV Pk AV Pk AV Pk AV Pk
>     >     >     >     >     + <t< td=""><td>4880 4880 7320 9760 9760 12200 12200 4880 4880 7320 7320</td><td>54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71 52.04</td><td>GFS 30.55 30.33 30.33 30.33 30.85 30.85 31.02 31.02 30.55 30.55 30.33</td><td>K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32</td><td>Channel:2 24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66 24.55 24.55 24.55 24.69</td><td>441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54 43.59 52.58 43.69 54.72</td><td>74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00</td><td>-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41 -21.42 -10.31 -19.28</td><td>AV Pk AV Pk AV Pk AV Pk AV Pk AV</td></t<>	4880 4880 7320 9760 9760 12200 12200 4880 4880 7320 7320	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71 52.04	GFS 30.55 30.33 30.33 30.33 30.85 30.85 31.02 31.02 30.55 30.55 30.33	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32	Channel:2 24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66 24.55 24.55 24.55 24.69	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54 43.59 52.58 43.69 54.72	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41 -21.42 -10.31 -19.28	AV Pk AV Pk AV Pk AV Pk AV Pk AV
>     >     >     >     >     >     >     T     T     T     T	4880 4880 7320 7320 9760 9760 12200 12200 4880 4880 7320 7320 9760 9760	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71 52.04 43.15 53.43 43.86	GFS 30.55 30.33 30.33 30.33 30.85 30.85 31.02 31.02 30.55 30.55 30.33 30.33 30.33 30.85 30.85	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 6.32 6.32 7.45 7.45 7.45	Channel:2 24.66 24.55 24.55 24.59 24.69 25.57 25.57 24.66 24.66 24.66 24.55 24.55 24.69 24.69	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54 43.59 52.58 43.69 54.72 45.15	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41 -21.42 -10.31 -19.28 -8.85	AV Pk AV Pk AV Pk AV Pk AV Pk AV Pk
>     >     >     >     >     >     >     H     H     H     H     H	4880 4880 7320 7320 9760 9760 12200 12200 12200 4880 4880 7320 7320 9760	54.66 43.44 53.22 43.63 53.95 43.87 52.70 43.53 50.66 43.71 52.04 43.15 53.43	GFS 30.55 30.33 30.33 30.85 30.85 30.85 31.02 31.02 31.02 30.55 30.55 30.33 30.33 30.33 30.85	K: Middle 5.77 6.32 6.32 7.45 7.45 8.99 8.99 5.77 5.77 6.32 6.32 7.45	Channel:2 24.66 24.66 24.55 24.55 24.69 24.69 25.57 25.57 24.66 24.66 24.55 24.55 24.55 24.69	441MHz 54.54 43.32 53.76 44.17 55.24 45.16 56.24 47.07 50.54 43.59 52.58 43.69 54.72	74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00	-19.46 -10.68 -20.24 -9.83 -18.76 -8.84 -17.76 -6.93 -23.46 -10.41 -21.42 -10.31 -19.28	AV Pk AV Pk AV Pk AV Pk AV Pk AV Pk AV

-	
6	1

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1000								Faye	24 01 34
Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			GFS	K: High	Channel:24	80MHz			
V	4960	52.98	30.55	5.77	24.66	52.86	74.00	-21.14	Pk
V	4960	43.45	30.55	5.77	24.66	43.33	54.00	-10.67	AV
V	7440	55.08	30.33	6.32	24.55	55.62	74.00	-18.38	Pk
V	7440	43.39	30.33	6.32	24.55	43.93	54.00	-10.07	AV
V	9920	52.51	30.85	7.45	24.69	53.80	74.00	-20.20	Pk
V	9920	42.50	30.85	7.45	24.69	43.79	54.00	-10.21	AV
V	12400	52.77	31.02	8.99	25.57	56.31	74.00	-17.69	Pk
V	12400	43.34	31.02	8.99	25.57	46.88	54.00	-7.12	AV
Н	4960	54.78	30.55	5.77	24.66	54.66	74.00	-19.34	Pk
Н	4960	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
Н	7440	51.21	30.33	6.32	24.55	51.75	74.00	-22.25	Pk
Н	7440	43.38	30.33	6.32	24.55	43.92	54.00	-10.08	AV
Н	9920	51.58	30.85	7.45	24.69	52.87	74.00	-21.13	Pk
Н	9920	42.93	30.85	7.45	24.69	44.22	54.00	-9.78	AV
Н	12400	52.71	31.02	8.99	25.57	56.25	74.00	-17.75	Pk
Н	12400	43.39	31.02	8.99	25.57	46.93	54.00	-7.07	AV

## Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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## 5. BANDWIDTH OF FREQUENCY BAND EDGE

#### 5.1 Limit

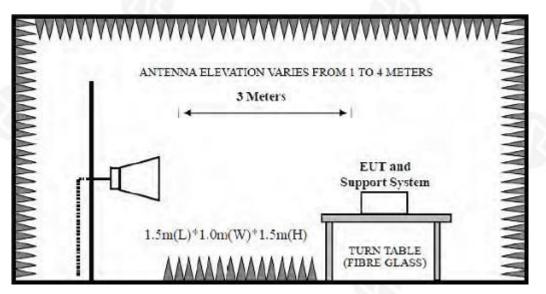
ak Limit@3m dBµV/m	5 0	Field strength of fundamental@3m (millivolts/meter)	Fundamental frequency	
114	94	50	902-928MHz	
114	94	50	2407-2477MHz	
114	94	50	5725-5875MHz	
128	108	250	24.0-24.25	

#### Note :

1. Average Limit (dBµV/m)=20×log[1000×Field Strength (mV/m)].

2. Peak Limit (dBµV/m)= Average Limit (dBµV/m)+20dB

## 5.2 Test Setup



## 5.2 Spectrum Analyzer Setting

Setting	
≥OBW	
3×RBW	
2407MHz	
2477MHz	
Auto	
PEAK/AVG	
Max Hold	
-	≥OBW 3×RBW 2407MHz 2477MHz Auto PEAK/AVG





#### 5.4 Test Procedure

a. EUT was placed on a turn table, which is 1.5 meter high above the ground.

b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.

c. Spectrum analyzer setting parameters in accordance with section 3.3.

d. Set the EUT transmit continuously with maximum output power.

e. The turn table can rotate 360 degrees to determine the position of the maximum emission level. f. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test, record the average and peak value.

g. Repeat above procedures until all channels were measured.

h. Record the results in the test report.

5.5 Test Result

PASS

GFSK:

0101								
Test frequency (MHz)	Fundamental Frequency (MHz)	Field strength of fundamental level (dBµV/m)		Limit (dBuV)		Result	Antenna Pole (H/V)	
(		AVG	Peak	AVG	Peak			
2402	2401.945	77.75	98.16	94	114	Pass	н	
2402	2401.799	77.52	97.92	94	114	Pass	V	
2440	2439.944	77.57	97.89	94	114	Pass	Н	
2440	2440.743	77.5	97.77	94	114	Pass	V	
2480	2479.672	76.58	96.92	94	114	Pass	Н	
2480	2479.568	76.57	96.87	94	114	Pass	V	
		-	•	-	•	•	•	







#### 6.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205						
ANSI C63.10:	ANSI C63.10: 2013					
All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.						
Measurement	Distance: 3m		12			
Frequency	Detector	RBW	VBW	Value		
Above	Peak	1MHz	3MHz	Peak		
1GHz	Average	1MHz	3MHz	Average		
	ANSI C63.10: All of the restrictor 2500MHz) of Measurement Frequency Above	ANSI C63.10: 2013       All of the restrict bands were to 2500MHz) data was showed       Measurement Distance: 3m       Frequency     Detector       Above     Peak	ANSI C63.10: 2013       All of the restrict bands were tested, only to 2500MHz) data was showed.       Measurement Distance: 3m       Frequency     Detector       RBW       Above     Peak       1MHz	ANSI C63.10: 2013       All of the restrict bands were tested, only the worst b       to 2500MHz) data was showed.       Measurement Distance: 3m       Frequency     Detector     RBW     VBW       Above     Peak     1MHz     3MHz		

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation

#### 6.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel Note:
- Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported
- 6.3 DEVIATION FROM TEST STANDARD No deviation

6.4 TEST SETUP





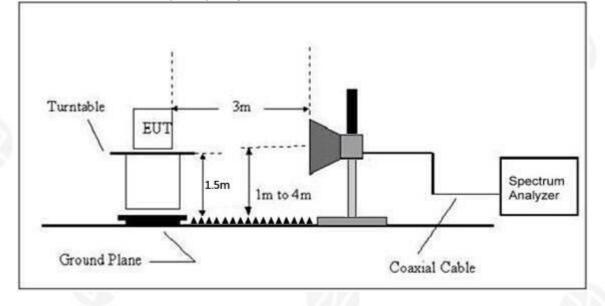
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Radiated Emission Test-Up Frequency Above 1GHz



## 6.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





#### 6.6 TEST RESULT

## Operation Mode: TX CH00 (2402MHz)

## Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре		
2310	58.64	-5.81	52.83	74	-21.17	PK		
2310	/	-5.81	/	54	/	AV		
2390	58.83	-5.84	52.99	74	-21.01	PK		
2390	/	-5.84	/	54	/	AV		
2400	58.74	-5.84	52.9	74	-21.1	PK		
2400	< /	-5.84	/	54	/	AV		
Remark: Facto	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	58.48	-5.81	52.67	74	-21.33	PK
2310	/	-5.81	/	54	/	AV
2390	58.61	-5.84	52.77	74	-21.23	PK
2390	/	-5.84	/	54	/	AV
2400	58.83	-5.84	52.99	74	-21.01	PK
2400	/	-5.84	/	54	/	AV
Remark: Facto	or = Antenna Factor	r + Cable Los	ss – Pre-amplifier.			



## Operation Mode: TX CH78 (2480MHz)

#### Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.59	-5.65	51.94	74	-22.06	PK
2483.5	/	-5.65	/	54	/	AV
2500	58.5	-5.72	52.78	74	-21.22	PK
2500	/	-5.72	/	54	/	AV

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	59.12	-5.65	53.47	74	-20.53	PK
2483.5	/	-5.65	/	54	/	AV
2500	58.58	-5.72	52.86	74	-21.14	PK
2500	/	-5.72	/	54	/	AV
Remark: Facto	or = Antenna Factor	+ Cable Los	ss – Pre-amplifier.			

#### Note:

1. Since the peak value is less than the average limit, the average value does not reflected in the report.







## 7. 20DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10: 2013

## 7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.249(c)	Bandwidth	2400-2483.5	PASS

## 7.2 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW)  $\ge$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 7.3 DEVIATION FROM STANDARD

No deviation.

# 7.4 TEST SETUP



## 7.5 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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# 7.6 TEST RESULT

# **GFSK Modulation:**

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Result
CH00	2402	1.072	PASS
CH19	2440	1.081	PASS
CH39	2480	1.034	PASS

#### NSE:INT ALIGN AUTO Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hold: 20/20 #Atten: 30 dB 12:33:08 PMDec 05, 202 Radio Std: None Center Freq 2.402000000 GHz Radio Device: BTS #IFGain:Low Ref 20.00 dBm Center 2.402 GHz #Res BW 30 kHz Span 3 MHz Sweep 3.333 ms #VBW 100 kHz Total Power 1.08 dBm Occupied Bandwidth 1.0482 MHz 35.358 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 1.072 MHz x dB -20.00 dB

STATUS

#### CH00: 2402MHz







#### CH19: 2440MHz



## CH39: 2480MHz









#### 8. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
be used with the device. The use intentional radiator, the manufact	esigned to ensure that no antenna other than that furnished by the responsible party shate of a permanently attached antenna or of an antenna that uses a unique coupling to the turer may design the unit so that a broken antenna can be replaced by the user, but the or electrical connector is prohibited.
EUT Antenna:	
The antenna is an Internal Anten	na, the best case gain of the antennas is 3.04dBi, reference to the appendix II for detail
9. TEST SETUP PHOTO	
Reference to the apper	ndix I for details.
<b>10. EUT CONSTRUCTIONAL</b>	L DETAILS

Reference to the appendix II for details.

\*\*\*\*\* END OF REPORT \*\*\*\*\*



