FCC TEST REPORT

FCC ID: 2A2SV-CKC61W

Report No. : SSP25010049-3E

Applicant: Shenzhen Coolkit Technology Co., Ltd.

Product Name : CKC6-1-W

Model Name : CKC6-1-W-N16

Test Standard: FCC Part 15.249

Date of Issue : 2025-02-12



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

FCC Test Report Page 1 of 26

Test Report Basic Information

Applicant...... Shenzhen Coolkit Technology Co., Ltd.

B11,2nd Floor,T6 Art Zone,No.6 Tongfa Road,Xili Town,Shenzhen,GuangDong,

Address of Applicant..... China

Manufacturer...... Shenzhen Coolkit Technology Co., Ltd.

B11,2nd Floor,T6 Art Zone,No.6 Tongfa Road,Xili Town,Shenzhen,GuangDong,

Address of Manufacturer.....: China

Product Name CKC6-1-W

Brand Name..... Cookit

Main Model..... CKC6-1-W-N16

Series Models..... See section 1.1 (Page 5)

FCC Part 15 Subpart C

ANSI C63.4-2014

Test Standard...... ANSI C63.10-2013

Test Result..... PASS

Tested By L'orrix L'uo (Lorzix Luo)

Reviewed By...... Lieber Ouyang (Lieber Ouyang)

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

FCC Test Report Page 2 of 26

CONTENTS

1. General Information	5
1.1 Product Information	5
1.2 Test Setup Information	
1.3 Compliance Standards	7
1.4 Test Facilities	
1.5 List of Measurement Instruments	8
1.6 Measurement Uncertainty	9
2. Summary of Test Results	10
3. Antenna Requirement	11
3.1 Standard and Limit	
3.2 Test Result	
4. Conducted Emissions	
4.1 Standard and Limit	12
4.2 Test Procedure	12
4.3 Test Data and Results	13
5. Radiated Emissions	16
5.1 Standard and Limit	16
5.2 Test Procedure	
5.3 Test Data and Results	18
6. Band-edge Emissions	23
6.1 Standard and Limit	23
6.2 Test Procedure	
6.3 Test Data and Results	23
7. Occupied Bandwidth	25
7.1 Standard and Limit	25
7.2 Test Procedure	
7.3 Test Data and Results	

Report No: SSP25010049-3E

Revision	Issue Date	Description	Revised By
V1.0	2025-02-12	Initial Release	Lahm Peng

FCC Test Report Page 4 of 26

1. General Information

1.1 Product Information

Product Name:	CKC6-1-W
Trade Name:	Cookit
Main Model:	CKC6-1-W-N16
Series Models:	CKC6-1-W-N8, CKC6-1-W-H4, CKC6-1-W-N4
Rated Voltage:	3.0V-3.6V
Power Adapter:	N/A
Battery:	N/A
Hardware Version:	CK-ESP32C6-WR-01 V1.1
Software Version:	N/A

Report No: SSP25010049-3E

Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Wireless Specification				
Wireless Standard:	2.4GHz RF			
Operating Frequency:	2405MHz ~2475MHz			
Quantity of Channel:	15			
Channel Separation:	5MHz			
Modulation:	GFSK			
Antenna Gain:	0.85 dBi			
Type of Antenna:	Integral Antenna			
Type of Device:	☑ Portable Device ☐ Mobile Device ☑ Modular Device			

FCC Test Report Page 5 of 26

1.2 Test Setup Information

List of Test Modes							
Test Mode	De	escription	scription Remark				
TM1	Tra	nsmitting		2405/2440/24	75MHz		
TM2	(Charging		AC 120V/6	0Hz		
List and Detail	ls of Auxiliary	y Cable					
Descrip	otion	Length (cm)		Shielded/Unshielded	With/Without Ferrite		
-		-		-	-		
-		-		-	-		
List and Detail	List and Details of Auxiliary Equipment						
Descrip	otion	Manufacturer		Manufacturer		Model	Serial Number
Adap	ter	EASTSUN		ES005-U120200XYC	ES2017103100047		
USB TO	TTL	Yeahbot		HW-597	-		

Report No: SSP25010049-3E

List of Chann	iels						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	15	2425	19	2445	23	2465
12	2410	16	2430	20	2450	24	2470
13	2415	17	2435	21	2455	25	2475
14	2420	18	2440	22	2460	/	/

FCC Test Report Page 6 of 26

1.3 Compliance Standards

Compliance Standards	
ECC Don't 15 Colon out C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,
FCC Part 15 Subpart C	Intentional Radiators
All measurements contain	ed in this report were conducted with all above standards
According to standards	for test methodology
ECC Dout 15 Culturant C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,
FCC Part 15 Subpart C	Intentional Radiators
ANCI CC2 4 2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from
ANSI C63.4-2014	Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
American National Standard of Procedures for Compliance Testing of Unlicens	
ANSI C63.10-2013 Devices	
Maintenance of compliance	e is the responsibility of the manufacturer or applicant. Any modification of the product, which
result is lowering the emi	ssion, should be checked to ensure compliance has been maintained.

Report No: SSP25010049-3E

1.4 Test Facilities

	Shenzhen CCUT Quality Technology Co., Ltd.		
Laboratory Name:	1F, Building 35, Changxing Technology Industrial Park, Yutang Street,		
	Guangming District, Shenzhen, Guangdong, China		
CNAS Laboratory No.:	L18863		
A2LA Certificate No.:	6893.01		
FCC Registration No:	583813		
ISED Registration No.:	CN0164		
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing			
Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.			

FCC Test Report Page 7 of 26

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06
Test Cable	N/A	Cable 5	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
		Radiated Emission	15		
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06
Amplifier	HUABO	YXL0518-2.5-45		2024-08-07	2025-08-06
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02
Attenuator	QUANJUDA	6dB	220731	2024-08-07	2025-08-06
Test Cable	N/A	Cable 1	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 2	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 3	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 4	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 8	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 9	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
		Conducted RF Testi	ng		
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06
RF Test Software	MWRFTest	MTS 8310	N/A	N/A	N/A

Report No: SSP25010049-3E

FCC Test Report Page 8 of 26

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
	9kHz ~ 30MHz	±2.88 dB
De dieted Emissions	30MHz ∼ 1GHz	±3.32 dB
Radiated Emissions	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %

Report No: SSP25010049-3E

FCC Test Report Page 9 of 26

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.249(a)&(d)	Radiated Emissions	Passed
FCC Part 15.249(d)	Band-edge Emissions	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed

Report No: SSP25010049-3E

Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

FCC Test Report Page 10 of 26

3. Antenna Requirement

3.1 Standard and Limit

According to FCC 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.

Report No: SSP25010049-3E

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

FCC Test Report Page 11 of 26

4. Conducted Emissions

4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emissions (dBuV)		
(MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56	56 to 46	
0.5-5	56	46	
5-30	60	50	

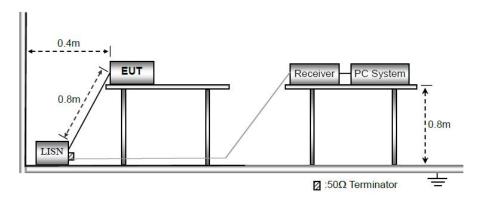
Report No: SSP25010049-3E

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

Note 2: The lower limit applies at the band edges

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

- a) 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.
- b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz Stop Frequency: 30MHz IF Bandwidth: 9kHz

c) 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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

FCC Test Report Page 12 of 26

d) 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.

Report No: SSP25010049-3E

- e) 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.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item photographs of the test setup.

4.3 Test Data and Results

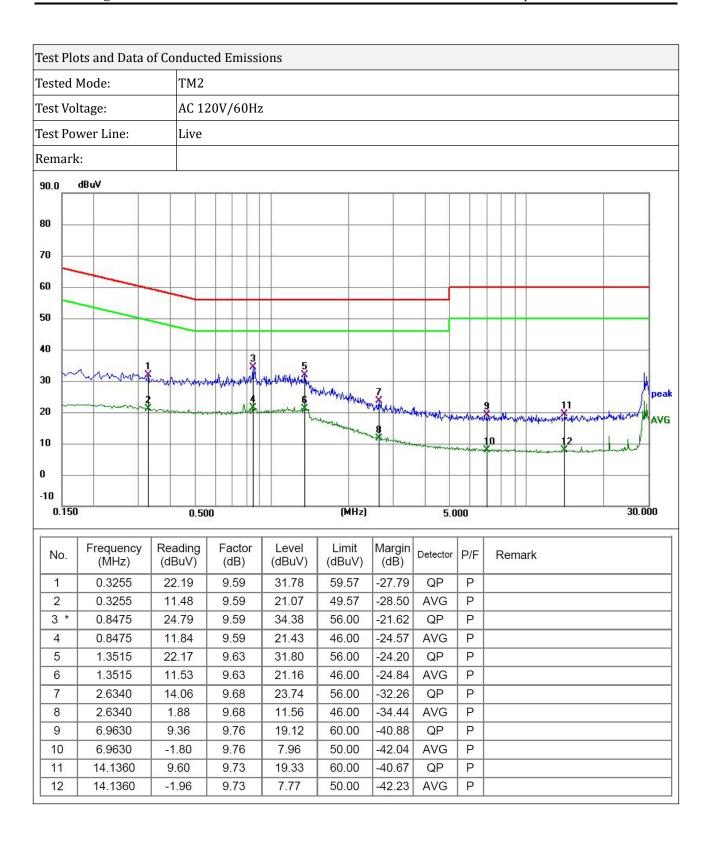
Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

FCC Test Report Page 13 of 26

Test P	lots and Data	of Conduct	ed Emissi	ons						
Tested	l Mode:	TM2	M2							
Test V	oltage:	AC 12	C 120V/60Hz							
Test P	ower Line:	Neut	ral							
Remai	rk:									
90.0	dBuV									
- T								Т		
80								_		
70										
70										
60					-			+		
50		105,00								
30										
40			3		-	-		+		
30	money	May Planter	and home	on the state of	5					
	2	I MAN	4	4	Marcalanta Warlish	Maria Maria		. 9		11 Mpeak
20		warmen, w	mare Mar	an more diverse	& market	that is a complete	war with a land	ANI NOW	Many may be with the commence may	AVG
10					- more	When & Mary	War or Commission of the Commi	10		12
100									- House - Marie - Mari	Brown afferd were well and the man
0								\top		
-10 0.15	50	0.50	<u> </u>		(MHz)			100		30.000
0.1	JO.	0.50	IU		(M112)		5.0	100		30.000
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1	0.2940	22.87	9.39	32.26	60.41	-28.15	QP	Р		
2	0.2940	11.92	9.39	21.31	50.41	-29.10	AVG	Р		
3 *	0.8475	26.52	9.40	35.92	56.00	-20.08	QP	Р		
4	0.8475	13.08	9.40	22.48	46.00	-23.52	AVG	Р		
5	1.5360	18.90	9.44	28.34	56.00	-27.66	QP	Р		
6	1.5360 3.0164	8.10	9.44	17.54	46.00	-28.46		Р		
7 8	3.0164	14.58 1.57	9.50 9.50	24.08 11.07	56.00 46.00	-31.92 -34.93	QP AVG	P		
9	6.2609	10.79	9.57	20.36	60.00	-39.64	QP	Р		
10	6.2609	-0.89	9.57	8.68	50.00	-41.32	AVG	P		
11	14.3970	10.85	9.53	20.38	60.00	-39.62	QP	P		
12	14.3970	-1.20	9.53	8.33	50.00	-41.67	AVG	P		
12	14.3870	-1.20	9.00	0.33	1 30.00	-41.07	AVG	F		

FCC Test Report Page 14 of 26



FCC Test Report Page 15 of 26

5. Radiated Emissions

5.1 Standard and Limit

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Report No: SSP25010049-3E

Fundamental fraguency	Field strength of fundamental	Field strength of Harmonics	
Fundamental frequency	(milli-volts/meter)	(micro-volts/meter)	
902-928 MHz	50	500	
2400-2483.5 MHz	50	500	
5725-5875 MHz	50	500	
24.0-24.25 GHz	250	2500	

According to §15.249(d) 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.

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Engage av of omiggion (MHz)	Radiated emissions (3m)			
Frequency of emission (MHz)	Quasi-peak (dBuV/m)			
30-88	40			
88-216	43.5			
216-960	46			
Above 960	54			
Note: The more stringent limit applies at transition frequencies.				

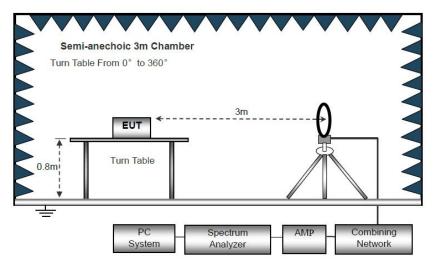
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

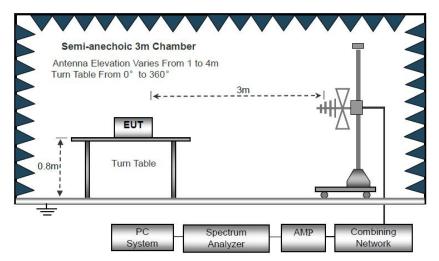
5.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

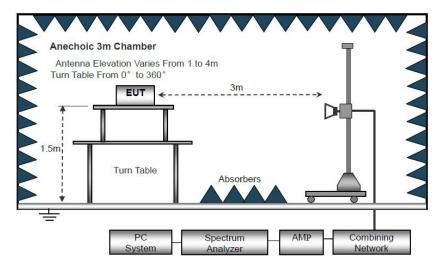
FCC Test Report Page 16 of 26



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

FCC Test Report Page 17 of 26

Report No: SSP25010049-3E

1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest

emissions.

c) Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz

VBW ≥ RBW, Sweep = auto

Detector function = peak

Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT,

adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being

corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz,

VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

f) For the actual test configuration, please refer to the related item - EUT test photos.

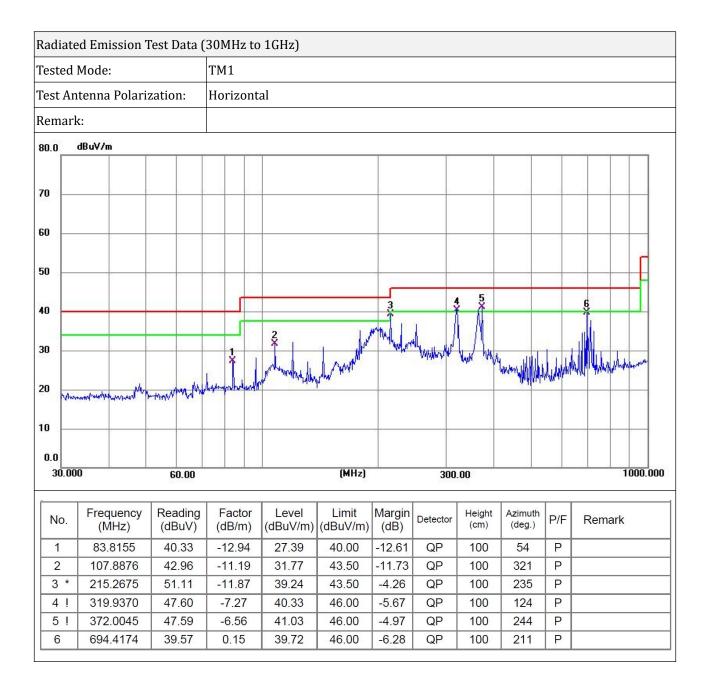
5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit for a wireless device,

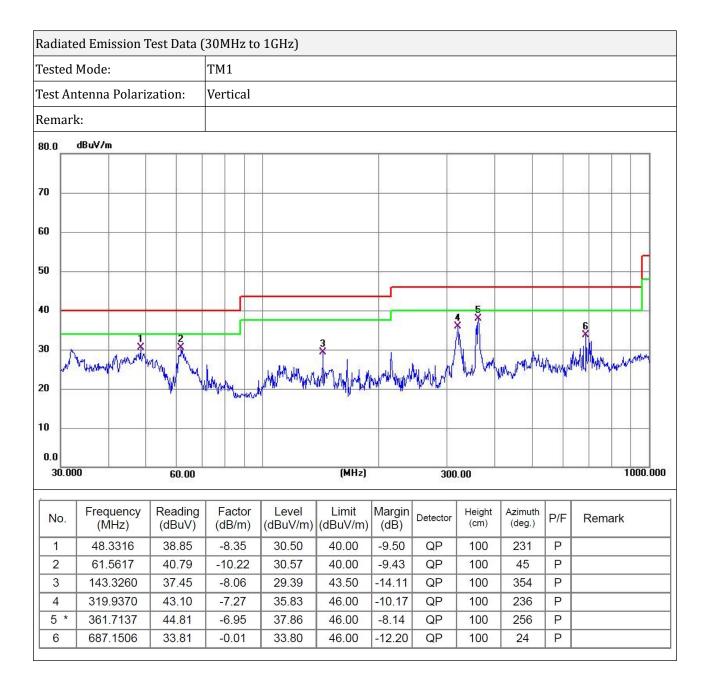
and with the worst case GFSK_2402MHz as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

FCC Test Report Page 18 of 26



FCC Test Report Page 19 of 26



FCC Test Report Page 20 of 26

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
		,	•	iel (2405MHz)		,	,
			Horiz	zontal			
1980	46.7	-16.12	30.58	74	-43.42	Н	PK
1985	39.74	-16.09	23.65	54	-30.35	Н	AV
2480	52.48	-13.69	38.79	74	-35.21	Н	PK
2480	43.24	-13.69	29.55	54	-24.45	Н	AV
3105	45.62	-10.82	34.8	74	-39.2	Н	PK
3155	38.99	-10.7	28.29	54	-25.71	Н	AV
3760	46.22	-9.24	36.98	74	-37.02	Н	PK
3825	38.9	-8.95	29.95	54	-24.05	Н	AV
		,	Ver	tical			
1605	47.54	-17.67	29.87	74	-43.42	V	PK
1615	40.6	-17.65	22.95	54	-30.35	V	AV
2425	57.57	-13.97	43.6	74	-35.21	V	PK
2425	47.51	-13.97	33.54	54	-24.45	V	AV
2975	47.86	-11.21	36.65	74	-39.2	V	PK
3035	40.9	-11	29.9	54	-25.71	V	AV
4800	48.98	-6.44	42.54	74	-37.02	V	PK
4800	43.55	-6.44	37.11	54	-24.05	V	AV
			Middle Chann	el (2440MHz)			
			Horiz	zontal			
1960	46.88	-16.27	30.61	74	-43.42	Н	PK
1985	39.76	-16.09	23.67	54	-30.35	Н	AV
2480	51.17	-13.69	37.48	74	-35.21	Н	PK
2480	41.97	-13.69	28.28	54	-24.45	Н	AV
3000	40.69	-11.08	29.61	54	-39.2	Н	AV
3005	47.09	-11.07	36.02	74	-25.71	Н	PK
3875	46.45	-8.73	37.72	74	-37.02	Н	PK
3895	37.61	-8.64	28.97	54	-24.05	Н	AV
			Ver	tical			
1690	47.48	-17.54	29.94	74	-43.42	V	PK
1715	40.27	-17.51	22.76	54	-30.35	V	AV
2480	54.81	-13.69	41.12	74	-35.21	V	PK
2480	44.56	-13.69	30.87	54	-24.45	V	AV
3390	47.69	-10.47	37.22	74	-39.2	V	PK
3455	40.78	-10.35	30.43	54	-25.71	V	AV

FCC Test Report Page 21 of 26

Report No: SSP25010049-3E

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

FCC Test Report Page 22 of 26

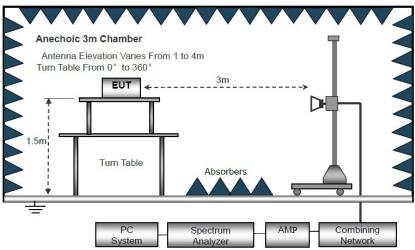
6. Band-edge Emissions

6.1 Standard and Limit

According to §15.249(d) 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

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit, and with the worst case as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	- Polar	Margin	Datastan Tyma
(MHz)	(dB µ V)	(dB/m)	(dB µ V/m)	(dB µ V/m)		rulai	(dB)
2402.25	38.43	-5.53	92.36	114	Horizontal	-21.64	Fundamental
2402.27	38.56	-5.61	92.41	114	Vertical	-21.59	Fundamental
2473.76	36.54	-5.13	93.69	114	Horizontal	-20.31	Fundamental
2473.75	36.52	-5.16	93.71	114	Vertical	-20.29	Fundamental

FCC Test Report Page 23 of 26

Frequency(MHz):		2405		Polarity:	Horiz	ontal
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Tyres
(MHz)	(dB µ V)	(dB/m)	(dB µ V/m)	(dB µ V/m)	(dB)	Detector Type
2384.85	41.5	-5.59	35.91	74	-38.09	peak
2390	39.4	-5.72	33.68	74	-40.32	peak
2400	38.52	-5.61	32.91	74	-41.09	peak

Frequency(MHz):		2405		Polarity:	Ver	tical
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB µ V)	(dB/m)	(dB µ V/m)	(dB µ V/m)	(dB)	Detector Type
2387.67	43.05	-5.91	37.14	74	-36.86	peak
2390	41.12	-5.94	35.18	74	-38.82	peak
2400	38.96	-5.65	33.31	74	-40.69	peak
2402.27	92.41	-5.61	33.61	114	-21.59	Fundamental

Frequency(MHz):		2475		Polarity:	Horiz	ontal
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB µ V)	(dB/m)	(dB µ V/m)	(dB µ V/m)	(dB)	Detector Type
2473.76	93.69	-5.13	31.25	114	-20.31	Fundamental
2483.5	36.46	-5.29	31.17	74	-42.83	peak
2484.6	38.45	-4.99	33.46	74	-40.54	peak

Frequency(MHz):		2475		Polarity:	Ver	tical
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB µ V)	(dB/m)	(dB µ V/m)	(dB µ V/m)	(dB)	Detector Type
2473.75	93.71	-5.16	31.34	114	-20.29	Fundamental
2483.5	36.64	-5.29	31.35	74	-42.65	peak
2483.54	40	-4.94	35.06	74	-38.94	peak

REMARKS:

Emission level (dBuV/m) = Reading (dBuV)+ Factor (dB/m)

Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

Margin value = Emission level- Limit value.

Other emission levels are attenuated 20dB below the limit and not recorded in report.

RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

FCC Test Report Page 24 of 26

7. Occupied Bandwidth

7.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

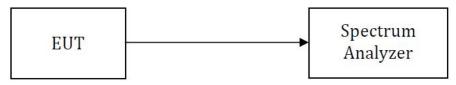
Report No: SSP25010049-3E

7.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = $1\% \sim 5\%$ of 99% bandwidth, VBW $\geq [3 \times RBW]$, Sweep = Auto.
- 4) Set a reference level on the measuring instrument equal to the highest peak value.
- 5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- 6) Repeat the above procedures until all frequencies measured were complete.

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.



Test Setup Block Diagram

7.3 Test Data and Results

Test Channel	Test Frequency	20dB Bandwidth (MHz)
Lowest Channel	2405MHz	1.986
Middle Channel	2440MHz	1.986
Highest Channel	2475MHz	1.988

FCC Test Report Page 25 of 26



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

FCC Test Report Page 26 of 26