



## **FCC Radio Test Report**

FCC ID: QYLRC7611B41

Report No. : BTL-FCCP-4-2202T096 Equipment : Body Worn Camera

Model Name : BC-4K
Brand Name : Getac

**Applicant**: Getac Technology Corporation

Address : 5F., Building A, No.209, Sec.1, Nangang., Rd., Nangang Dist., Taipei City

11568, Taiwan, R.O.C.

Radio Function : LTE Band 14

FCC Rule Part(s) : FCC CFR Title 47, Part 2, 90(R)

Measurement : ANSI C63.26-2015 Procedure(s) ANSI/TIA-603-E-2016

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2022/3/23

**Date of Test** : 2022/8/2 ~ 2022/9/5

**Issued Date** : 2022/10/26

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

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Approved by

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Testing Laboratory

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#### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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## **REVISION HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2202T096	R00	Original Report.	2022/10/3	Invalid
BTL-FCCP-4-2202T096 R01		Revised report to address TCB's	2022/10/26	Valid
		comments.		

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## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
2.1046 90.542 (a)(7)	Conducted Output Power Effective Radiated Power	APPENDIX B	Pass	NOTE (5)
-	Peak To Average Ratio	NOTE (3)	Pass	
2.1049	Occupied Bandwidth	NOTE (3)	Pass	
2.1053 90.543 (e)(2)(3)	Band Edge Measurements	NOTE (3)	Pass	
2.1051 90.210(n)	Mask Measurements	NOTE (3)	Pass	
2.1053 90.543 (e)(3)	Conducted Spurious Emissions	NOTE (3)	Pass	
2.1055 90.539 (e)	Frequency Stability Temperature & Voltage	NOTE (3)	Pass	
2.1053 90.543 (e)(3) 90.543 (f)	Radiated Spurious Emissions	APPENDIX C	Pass	

#### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This is to request a Class II permissive change for FCC ID: QYLRC7611B41 (This FCC ID is change ID based on Sierra Wireless Inc., the original application information follow as model: RC7611, FCC ID: N7NRC76B, approved on 02/05/2020)
  - Since the RF module has been certificated, after evaluation, above test items were criticized and reconfirmed in this report, for other test data can be refer report No.: 19B0422R-HPUSP50V00.
- (4) The ac power lines conducted emissions, output power and radiated emissions are tested to demonstrate full compliance of both module integrated into the host and host itself.
- (5) Due to the slight difference between each measurement, some of the new measured power values are larger than the original Module Report, but still within the tolerance range.

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#### 1.1 TEST FACILITY

	The '	test facilities	used to	collect the	e test da	ata in	this re	port:
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No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

□ C06 ⊠ CB21 □ CB22

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

□ CB08 □ CB11 □ CB15 □ CB16

⊠ SR05

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expanded uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k} = \mathbf{2}$ , providing a level of confidence of approximately  $\mathbf{95}$  %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $\mathbf{U}_{cispr}$  requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

#### B. Effective Radiated Power and Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CB21	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

#### NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

#### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	22 °C, 50 %	AC 120V	Jay Tien
Conducted Output Power	24.3 °C, 61 %	AC 120V	Angela Wang
Effective Radiated Power	Refer to data	AC 120V	Mark Wang
Radiated Spurious Emissions	Refer to data	AC 120V	Mark Wang

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## 2 GENERAL INFORMATION

## 2.1 DESCRIPTION OF EUT

Equipment	Body Worn Camera						
Model Name	BC-4K	*					
Brand Name	Getac						
Model Difference	N/A						
Power Source		<ul><li>(1) From host system or power adapter.</li><li>(2) Battery supplied.</li></ul>					
	(1)		S - 1-1 - 4		1		
	BC-4K		Cable type	)	ır	nput Voltage	
	Pogo pins	Magnetic US	B type A to	o pogo Cal	ole	5V /1.5A	
Power Rating	USB type C	Туре	е С То С с	able	5V/3	3A and 9V/2.2A	
Products Covered	(2) Getac / BP1S1P5000P: Rated Voltage: 3.63 Vdc Rated capacity: 4750 mAh, 17.24 Wh Typical capacity: 5000 mAh, 18.15 Wh  1 * Adjustable Pocket Mount 1 * Clip Mount 1 * Magnetic Mount 1 * Molle Mount						
WWAN Module		1 * Dual Magnetic Mount AirPrime / RC7611					
	Band		requency	(MHz)	DL Fr	requency (MHz)	
Operation Frequency	LTE 14		788 ~ 798			758 ~ 768	
	Band	BW (	MHz)	Mo		Power (W)	
			•	QP		0.115	
Maximum ERP	1.75.44		5	16QAM		0.094	
	LTE 14		^	QP:	SK	0.116	
		1	10		AM	0.095	
Test Model	BC-4K						
Sample Status	ole Status Engineering Sample						
EUT Modification(s)	N/A						

#### NOTE

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

## (2) Table for Filed Antenna:

Antenna	Brand Name	Model Name	Туре	Connector	Gain (dBi)	Note
Main	Getac	BC-4K	Loop	N/A	-0.63	LTE Band 14
Aux	Getac	BC-4K	Loop	N/A	-	RX only

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#### 2.2 **TEST MODES**

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Conducted Output Power	LTE Band 14	Refer to APPENDIX B	-
Effective Radiated Power	ctive Radiated Power LTE Band 14		-
Radiated Spurious Emissions	LTE Band 14	TX Mode (CH 23330)	-

#### NOTE:

- (1) All X, Y and Z axes are evaluated, but only the worst case (Y axis) is recorded.(2) For Radiated Spurious Emissions both QPSK and 16QAM are evaluated, but only the worst case (QPSK) is recorded.

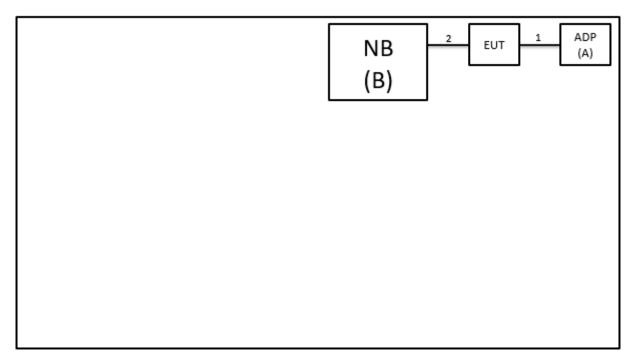
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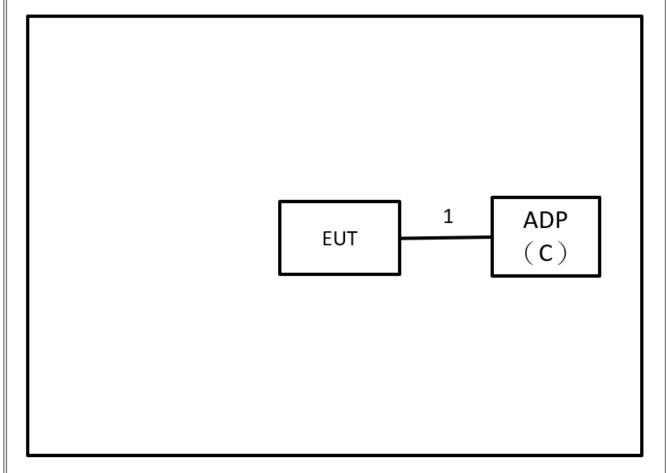
## 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test





## 2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	Adapter	SONY	AC-0051-TW	4017W29100317	Furnished by test lab.
В	NB	ASUS	X555LN-0021B4 210U	N/A	Furnished by test lab.
С	Adapter	SAMSUNG	EP-TA12JWS	N/A	Furnished by test lab.

П						
l	Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
	1	N/A	N/A	1m	Magnetic USB typeA to pogo Cable	Supplied by test requester.
ı	2	N/A	N/A	1.2m	USB Cable	Furnished by test lab.

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#### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency	Limit (	dΒμV)
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

#### NOTE:

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

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
  - All other support equipment were powered from an additional LISN(s).
  - The LISN provides 50 Ohm/50uH of 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 to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
  - The end of the cable will be terminated, using the correct terminating impedance.
  - The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

#### NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

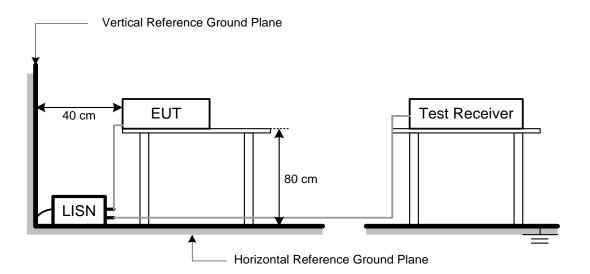
#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

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## 3.4 TEST SETUP



## 3.5 TEST RESULT

Please refer to the APPENDIX A.



## 4 EFFECTIVE RADIATED POWER MEASUREMENT

#### 4.1 LIMIT

Mobile / Portable station are limited to 3 watts e.r.p.

#### NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-29.66	+	34.26	II	4.60

Measurement Value		Limit Value		Margin Level
4.60	-	38.45	=	-33.85

#### 4.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

#### 4.3 DEVIATION FROM TEST STANDARD

No deviation.

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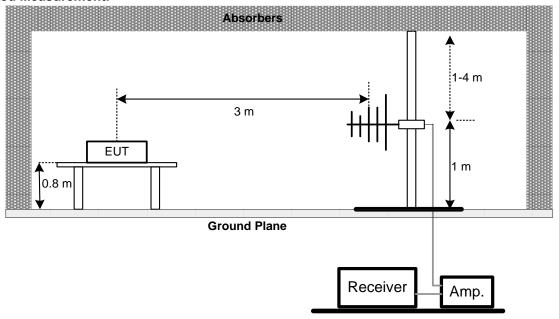


## 4.4 TEST SETUP

## **Conducted Measurement:**



## **Radiated Measurement:**



## 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 4.6 TEST RESULT

Please refer to the APPENDIX B.



## 5 RADIATED SPURIOUS EMISSIONS MEASUREMENT

#### 5.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

#### NOTE:

- (1) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- (2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-50.43	+	-2.11	II	-52.54

Measurement Value		Limit Value		Margin Level
-52.54	-	-13	=	-39.54

#### 5.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

#### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

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## 5.4 TEST SETUP

Absorbers

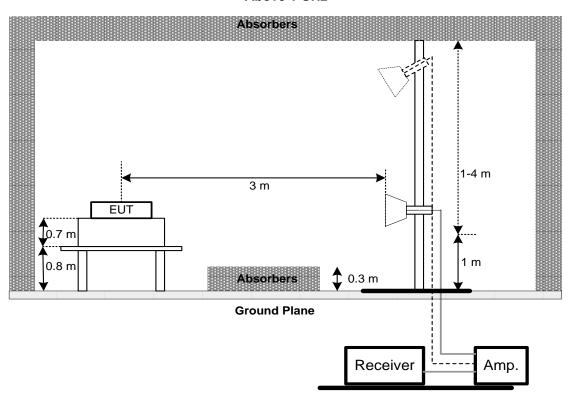
Absorbers

Ground Plane

#### Above 1 GHz

Receiver

Amp.



## 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 5.6 TEST RESULT

Please refer to the APPENDIX C.

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## LIST OF MEASURING EQUIPMENTS

		AC Pow	er Line Conducted	d Emissions		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101051	2022/6/15	2023/6/14
2	Test Cable	EMCI	EMCRG58-BM-B M-9000	210501	2022/5/2	2023/5/1
3	EMI Test Receiver	R&S	ESR 7	101433	2021/11/24	2022/11/23
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

		Co	onducted Output I	Power		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Radio Communication Analyzer	Anritsu	MT8820C	6201381608	2021/12/15	2022/12/14

		Effective Radi	ated Power and R	adiated Emission	S	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2021/9/23	2022/9/22
2	Preamplifier	EMCI	EMC118A45SE	980819	2022/3/8	2023/3/7
3	Preamplifier	EMCI	EMC001340	980555	2022/4/6	2023/4/5
4	Test Cable	EMCI	EMC104-SM-SM- 1000	220319	2022/3/15	2023/3/14
5	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2022/3/15	2023/3/14
6	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2022/3/15	2023/3/14
7	EXA Signal Analyzer	keysight	N9020A	MY57120120	2022/3/7	2023/3/6
8	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2022/6/28	2023/6/27
9	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
10	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17
11	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19
12	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0625	2022/5/20	2023/5/19
13	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A
14	Radio Communication Analyzer (LTE)	Anritsu	MT8820C	6201381608	2021/12/15	2022/12/14

Remark:

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7 EUT TEST PHOTO
Please refer to document Appendix No.: TP-2202T096-FCCP-1 (APPENDIX-TEST PHOTOS).
8 EUT PHOTOS
Please refer to document Appendix No.: EP-2202T096-2 (APPENDIX-EUT PHOTOS).

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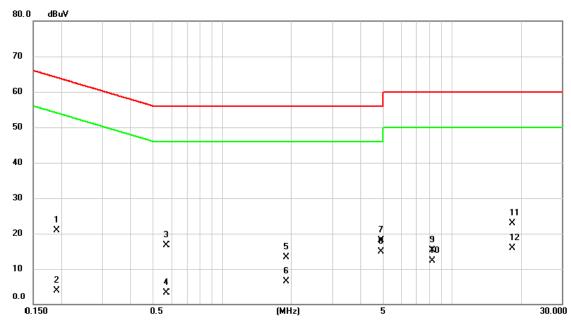


APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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Test Mode	Normal	Tested Date	2022/8/5
Test Frequency	-	Phase	Line

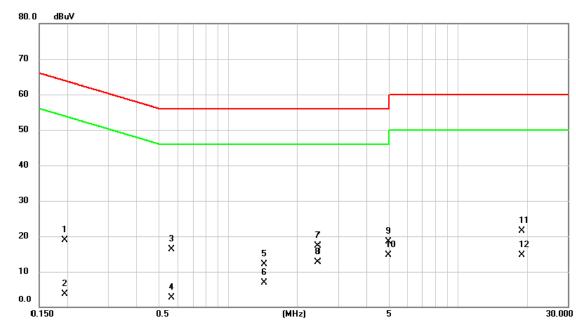


No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1905	11.25	9.63	20.88	64.01	-43.13	QP	
2	0.1905	-5.65	9.63	3.98	54.01	-50.03	AVG	
3	0.5714	7.15	9.62	16.77	56.00	-39.23	QP	
4	0.5714	-6.23	9.62	3.39	46.00	-42.61	AVG	
5	1.8957	3.54	9.69	13.23	56.00	-42.77	QP	
6	1.8957	-3.12	9.69	6.57	46.00	-39.43	AVG	
7	4.8945	8.41	9.75	18.16	56.00	-37.84	QP	
8 *	4.8945	5.21	9.75	14.96	46.00	-31.04	AVG	
9	8.2165	5.44	9.82	15.26	60.00	-44.74	QP	
10	8.2165	2.53	9.82	12.35	50.00	-37.65	AVG	
11	18.1755	13.08	9.82	22.90	60.00	-37.10	QP	
12	18.1755	6.12	9.82	15.94	50.00	-34.06	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Ш					
	Test Mode	Normal	Tested Date	2022/8/5	
	Test Frequency	-	Phase	Neutral	



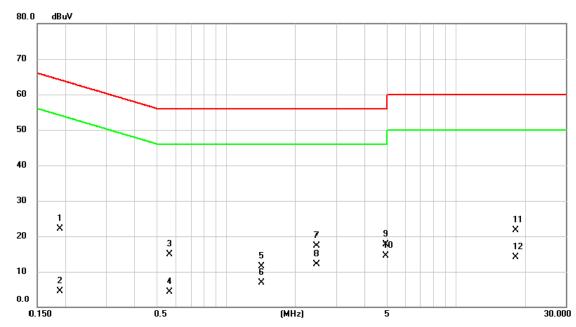
No. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1945	9.35	9.62	18.97	63.84	-44.87	QP	
2	0.1945	-5.84	9.62	3.78	53.84	-50.06	AVG	
3	0.5670	6.77	9.62	16.39	56.00	-39.61	QP	
4	0.5670	-6.98	9.62	2.64	46.00	-43.36	AVG	
5	1.4380	2.35	9.67	12.02	56.00	-43.98	QP	
6	1.4380	-2.84	9.67	6.83	46.00	-39.17	AVG	
7	2.4438	7.54	9.70	17.24	56.00	-38.76	QP	
8	2.4438	3.02	9.70	12.72	46.00	-33.28	AVG	
9	4.9537	8.65	9.76	18.41	56.00	-37.59	QP	
10 *	4.9537	4.88	9.76	14.64	46.00	-31.36	AVG	
11	18.9453	11.63	9.94	21.57	60.00	-38.43	QP	
12	18.9453	4.72	9.94	14.66	50.00	-35.34	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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Ш				
	Test Mode	Idle	Tested Date	2022/8/5
	Test Frequency	-	Phase	Line



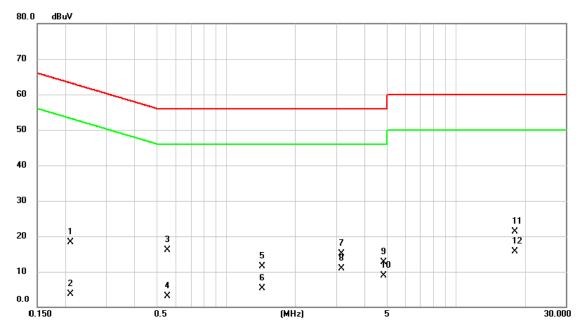
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1883	12.44	9.63	22.07	64.11	-42.04	QP	
2	0.1883	-5.12	9.63	4.51	54.11	-49.60	AVG	
3	0.5662	5.26	9.62	14.88	56.00	-41.12	QP	
4	0.5662	-5.34	9.62	4.28	46.00	-41.72	AVG	
5	1.4235	1.84	9.67	11.51	56.00	-44.49	QР	
6	1.4235	-2.84	9.67	6.83	46.00	-39.17	AVG	
7	2.4653	7.52	9.70	17.22	56.00	-38.78	QР	
8	2.4653	2.45	9.70	12.15	46.00	-33.85	AVG	
9	4.9290	7.98	9.75	17.73	56.00	-38.27	QР	
10 *	4.9290	4.84	9.75	14.59	46.00	-31.41	AVG	
11	18.1613	11.89	9.82	21.71	60.00	-38.29	QP	
12	18.1613	4.23	9.82	14.05	50.00	-35.95	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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Ш					
	Test Mode	Idle	Tested Date	2022/8/5	
	Test Frequency	-	Phase	Neutral	



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∨	dB	dBu∀	dBu∨	dB	Detector	Comment
1	0.2100	8.75	9.62	18.37	63.21	-44.84	QP	
2	0.2100	-5.84	9.62	3.78	53.21	-49.43	AVG	
3	0.5571	6.54	9.62	16.16	56.00	-39.84	QP	
4	0.5571	-6.52	9.62	3.10	46.00	-42.90	AVG	
5	1.4351	1.84	9.67	11.51	56.00	-44.49	QP	
6	1.4351	-4.33	9.67	5.34	46.00	-40.66	AVG	
7	3.1540	5.41	9.73	15.14	56.00	-40.86	QР	
8	3.1540	1.23	9.73	10.96	46.00	-35.04	AVG	
9	4.8432	2.99	9.76	12.75	56.00	-43.25	QP	
10	4.8432	-0.95	9.76	8.81	46.00	-37.19	AVG	
11	18.0244	11.32	9.92	21.24	60.00	-38.76	QP	
12 *	18.0244	5.88	9.92	15.80	50.00	-34.20	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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# APPENDIX B EFFECTIVE RADIATED POWER

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## **Conducted Output Power and Calculated ERP:**

## LTE Band 14 Power:

Band	BW	Channel	Frequency	Mode	UL RB	UL RB	MPR	Average power	ERP power	ERP power
	(MHz)		(MHz)		Allocation	Offset	_	(dBm)	(dBm)	(W)
					1	0	0	23.10	20.32	0.108
					1	12	0	23.38	20.60	0.115
					1	24	0	23.25	20.47	0.111
				QPSK	12	0	1	22.21	19.43	0.088
					12	6	1	22.54	19.76	0.095
					12	11	1	22.40	19.62	0.092
		23305	790.5		25	0	1	22.24	19.46	0.088
					1	0	1	22.20	19.42	0.087
					1	12	1	22.48	19.70	0.093
					1	24	1	22.36	19.58	0.091
				16QAM	12	0	2	21.29	18.51	0.071
					12	6	2	21.48	18.70	0.074
	1	1		1	12	11	2	21.44	18.66	0.073
					25	0	2	21.41	18.63	0.073
					1	0	0	23.13	20.35	0.108
				, [	1	12	0	23.41	20.63	0.115
					1	24	0	23.29	20.51	0.112
			793.0	QPSK	12	0	1	22.25	19.47	0.088
	4 5				12	6	1	22.57	19.79	0.095
					12	11	1	22.43	19.65	0.092
4.4		23330			25	0	1	22.25	19.47	0.088
14	5				1	0	1	22.23	19.45	0.088
				16QAM	1	12	1	22.51	19.73	0.094
					1	24	1	22.40	19.62	0.092
					12	0	2	21.34	18.56	0.072
					12	6	2	21.52	18.74	0.075
					12	11	2	21.47	18.69	0.074
					25	0	2	21.44	18.66	0.073
					1	0	0	23.12	20.34	0.108
				ĺ	1	12	0	23.39	20.61	0.115
					1	24	0	23.27	20.49	0.112
				QPSK	12	0	1	22.23	19.45	0.088
					12	6	1	22.55	19.77	0.095
				ĺ	12	11	1	22.41	19.63	0.092
				ĺ	25	0	1	22.23	19.45	0.088
		23355	795.5		1	0	1	22.21	19.43	0.088
		1		1	1	12	1	22.49	19.71	0.094
				ĺ	1	24	1	22.38	19.60	0.091
				16QAM	12	0	2	21.32	18.54	0.071
				100/1111	12	6	2	21.50	18.72	0.071
				ĺ	12	11	2	21.45	18.67	0.073
				_	25	0	2	21.42	18.64	0.074
			l		20	U		21.42	10.04	0.073

#### NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15. (3) P(W) = 1 W  $\cdot$  10<sup>(P(dBm)/10)</sup> / 1000

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Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)	
					1	0	0	23.17	20.39	0.109	
					1	24	0	23.44	20.66	0.116	
					1	49	0	23.32	20.54	0.113	
				QPSK	25	0	1	22.28	19.50	0.089	
					25	12	1	22.60	19.82	0.096	
					25	24	1	22.46	19.68	0.093	
14	10	23330	793.0		50	0	1	22.28	19.50	0.089	
14	10	23330	793.0		1	0	1	22.26	19.48	0.089	
					1	24	1	22.54	19.76	0.095	
				16QAM		1	49	1	22.43	19.65	0.092
					25	0	2	21.37	18.59	0.072	
					25	12	2	21.55	18.77	0.075	
					25	24	2	21.50	18.72	0.074	
					50	0	2	21.47	18.69	0.074	

## NOTE:

- (1) EIRP = Average power + Antenna gain. (2) ERP = EIRP 2.15. (3) P(W) = 1 W · 10<sup>(P(dBm) / 10)</sup> / 1000

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	Test Mo	ode	LTE E	Band 14		Test Date	9	2022	2/8/30	
7	est Cha	nnel	CH2	23330		Polarizatio	on	Ver	tical	
	Temp	)	2	5°C		Hum.		60	)%	
10.0	IBm .									7
30										
20						1 *				
0 —										
·  -										
10										-
20										
30										
40										
50										-
60.0										
749.50			769.00	775.50				1.50	814.50	MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	788.6408	9.57	9.69	19.26	34.77	-15.51	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
  (2) Margin Level = Measurement Value Limit Value.

Test Mode		LTE Band 14		Test Date			2022/8/30			
Test Channel		CH23330		Polarization		on	Horizontal			
Temp		25°C		Hum.			60%			
10.0 dl	3m									7
30										
						×				
20										
10										+
)										-
10										
20										-
30										-
40										-
50										-
60.0										
749.500			769.00	775.50				1.50	814.50	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	788.5585	14.78	10.25	25.03	34.77	-9.74	peak		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.





## APPENDIX C RADIATED SPURIOUS EMISSIONS

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- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

Test Mode Test Channel			LTE Band 14 CH23330		Test Date Polarization			2022/8/31 Vertical		
Temp		26°C		Polarization Hum.			vertical 60%			
0.0	dBm			0 0		i idili.		0.	<i>3</i> 70	
10										
20 =										
30 _										
40		1 X								
50 _										
60 _										
70										
80										
90										
100.0										
1000	0.000 1800.0		3400.00	4200.00				00.00	9000.00 N	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Commen	١t
1	*	2382.133	-47.37	6.43	-40.94	-13.00	-27.94	peak		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

Test Mode			LTE Band 14			Test Date		2022/8/31	
Test Channel			CH23330		Polarization		n	Horizontal	
Temp		26°C			Hum.		60%		
0.0	dBm								
-10									
20 =									
30 _									
40 _		1 X							
50 _									
60 _									
70									
80									
90									
100.0									
	0.000 1800.		3400.00	4200.00				00.00	9000.00 M
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2386.933	-49.30	6.20	-43.10	-13.00	-30.10	peak	

## **REMARKS**:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

**End of Test Report**