

Testing Laborator 0659



FCC Radio Test Report

FCC ID: HFSQTA-LI7CS

Report No. : BTL-FCCP-4-2107T083A Equipment : Notebook Computer

Model Name : NL72LTE, NL72CT-LTE, LI7, LI7XXXXXXXXX, NL7XXXXXXXXX(The

"X" Can be 0-9,A-Z, a-z, or blank for the marketing purpose)

Brand Name : Quanta, CTL

Applicant : Quanta Computer Inc.

Address : No. 188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

Radio Function : Transmit Simultaneously

FCC Rule Part(s) : 47 CFR FCC Part15, Subpart C (15.247)

47 CFR FCC Part15, Subpart E (15.407)

47 CFR FCC Part 22 Subpart H 47 CFR FCC Part 24 Subpart E 47 CFR FCC Part 27 Subpart F 47 CFR FCC Part 27 Subpart L 47 CFR FCC Part 27 Subpart H

Measurement : ANSI C63.10-2013 Procedure(s) ANSI C63.26-2015

ANSI/TIA-603-E-2016

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2021/9/11

Date of Test : 2021/9/11 ~ 2021/10/4

Issued Date : 2021/11/1

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

Prepared by

Approved by

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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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REVISON HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-4-2107T083A	R00	Original Report.	2021/10/13
BTL-FCCP-4-2107T083A	R01	Added one brand name.	2021/11/1

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1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.205				
15.209				
15.247(d)				
15.407(b)				
2.1053	Redicted Emissions	APPENDIX A	Pass	
22.917(a)	Radiated Emissions			
24.238(a)				
27.53(f)				
27.53(g)				
27.53(h)				

NOTE:

(1)	"N/A"	denotes	test is	not ap	plicable	in this	Test Re	port.
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(2) The report format version is TP.1.1.1.

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1.1 TEST FACILITY

T	he test f	facilities	used to	o col	ect th	ne test	data	in	this	rep	ort:
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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.

□ C05 □ CB08 □ CB11 □ CB15 □ CB16

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}_{cisor} requirement.

A. 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
CB15	1 GHz ~ 6 GHz	5.21
CDIS	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
Radiated emissions	21~23 °C, 54~70 %	AC 120V	Eddie Lee

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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Compute	er					
		NL72LTE, NL72CT-LTE, LI7, LI7XXXXXXXXXX, NL7XXXXXXXXX(The "X"					
Model Name		Can be 0-9,A-Z, a-z, - or blank for the marketing purpose)					
Brand Name	Quanta, CTL						
	Brand Name	Model Nan	ne				
	Ouente	LI7, LI7XXXXXXXXXXX (The	"X" Can be 0-9,A-Z,				
	Quanta	a-z ,- or blank for the ma					
Model Difference		NL72LTE, NL72CT-LTE, NL7	'XXXXXXXXXX(The				
	CTL	"X" Can be 0-9,A-Z, a-z ,	- or blank for the				
		marketing pur	pose)				
		tribute to different area.					
Power Source		d from AC/DC Adapter.					
Power Adapter	LITEON / PA-1450						
Power Adapter Power	I/P: 100-240V~1.3/						
Rating		9.0V==3.0A, 12.0V==3.0A, 15	5.0V3.0A, 20.0V2.25A				
WLAN Module	Intel® Wi-Fi 6 AX2						
WWAN Module	Fibocom / NL668-A						
Products Covered	1 * Adapter: LITEO						
	WLAN: 2412 MHz ~ 2472 MHz						
		UNII-1: 5180 MHz ~ 5250 MHz					
	UNII-2A: 5250 MHz ~ 5320 MHz						
		UNII-2C: 5500 MHz ~ 5700 MHz UNII-3: 5745 MHz ~ 5825 MHz					
	Band		DI Fraguenov (MHz)				
	WCDMA V	UL Frequency (MHz) 824 ~ 849	DL Frequency (MHz) 869 ~ 894				
a =	LTE 5	824 ~ 849	869 ~ 894				
Operation Frequency	WCDMA II	1850 ~ 1910	1930 ~ 1990				
	LTE 2	1850 ~ 1910	1930 ~ 1990				
			-				
	WCDMA IV	1710 ~ 1755	2110 ~ 2155				
	LTE 4	1710 ~ 1755	2110 ~ 2155				
	LTE 12	699 ~ 716	729 ~ 746				
	LTE 13	777 ~ 787	746 ~ 756				
Test Model	LTE 66 1710 ~ 1780 2110 ~ 2200						
	NL72LTE						
Sample Status	Engineering Sampl	e					
EUT Modification(s)	N/A						

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Channel List:

WLAN 2.4 GHz									
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
01	2412	06	2437	11	2462				
02	2417	07	2442	12	2467				
03	2422	80	2447	13	2472				
04	2427	09	2452						
05	2432	10	2457						

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WLAN 5 GHz										
	UNII-1									
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.11	11n (HT40) Iac (VHT40) ax (HEW40)	IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)					
36	5180	38	5190	42	5210					
40	5200	46 5230								
44	5220									
48	5240									

UNII-2A									
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.1 IEEE 802.11 IEEE 802.11		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
52	5260	54	5270	58	5290				
56	5280	62	5310						
60	5300								
64	5320								

	UNII-2C								
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)				
100	5500	102	5510	106	5530				
104	5520	110	5550	122	5610				
108	5540	118	5590	138	5690				
112	5560	126	5630						
116	5580	134	5670						
120	5600								
124	5620								
128	5640								
132	5660								
136	5680								
140	5700								

IEEE 802.11a			
IEEE 802.11n (HT20) IEEE 8	802.11n (HT40) 802.11ac (VHT40) 02.11ax (HEW40)	IEEE 802.11 IEEE 802.11	
Channel Frequency Channe	Frequency (MHz)	Channel	Frequency (MHz)
149 5745 151	5755	155	5775
153 5765 159	5795		
157 5785			
161 5805			
165 5825			



802.11ac (VHT160) 802.11ax (HEW160)				
Channel	Frequency(MHz)			
50	5250			
114	5570			

(3) Table for Filed Antenna:

	WLAN 2.4 GHz and WLAN 5 GHz								
Antenna	Manufacture	Part Number	Туре	Frequency Range (MHz)	Gain (dBi)				
				2400-2500	1.35				
Main	WNC	(81EAA615.GAY)	DIEA	5150-5350	2.34				
IVIAIII	WINC		5470-5725	2.52					
				5725-5850	1.69				
				2400-2500	1.16				
Λ.ι.ν.	MANO	DQ6615GAY00	PIFA	5150-5350	1.58				
Aux	WNC	(81EAA615.GAY)	PIFA	5470-5725	2.37				
				5725-5850	2.37				

	WWAN							
Antenna	Manufacturer	Part Number	Type	Gain (dBi)	Note			
			0.34	WCDMA Band II LTE Band 2				
				0.93	WCDMA Band IV LTE Band 4			
Main	WNC	DQ6615GAU00	PIFA	-1.99	WCDMA Band V LTE Band 5			
Iviaiii	(8°	(81EAA615.GAU)	FIIA	-0.10	LTE Band 12			
				-0.75	LTE Band 13			
				0.93	LTE Band 66			
							-0.56	WCDMA Band II LTE Band 2
				0.23	WCDMA Band IV LTE Band 4			
Aux	WNC	DQ6615GVU00	PIFA	-0.50	LTE Band 12 LTE Band 13 LTE Band 66 WCDMA Band II LTE Band 2 WCDMA Band IV LTE Band 4 WCDMA Band V LTE Band 5 LTE Band 12			
Aux	WING	(81EAA615.GAV)	FIIA	-0.85	LTE Band 12			
				0.20	LTE Band 13			
				0.23	LTE Band 66			



2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode as listed in below table.

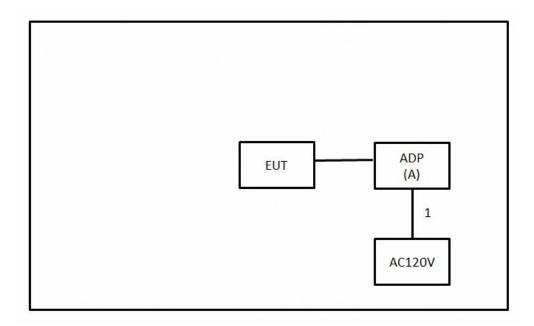
Test Mode	Description					
1	WLAN (2.4 GHz)_IEEE802.11b_2442MHz + WWAN (LTE Band 2)_CH18900					
2	WLAN (5 GHz)_IEEE802.11a_5260 MHz + WWAN (LTE Band 2)_CH18900					

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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.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	Adapter	LITEON	PA-1450-50	N/A	Supplied by test requester

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Power Cord	Supplied by test requester

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3 RADIATED EMISSIONS TEST

3.1 LIMIT

For WLAN:

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Zimire or received Emission of Mexicon Control of Contr						
Frequency	Field Strength	Measurement Distance				
(MHz)	(microvolts/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				
960~1000	500	3				

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
	-27 (NOTE 2)	68.3
5725-5850	10 (NOTE 2)	105.3
	15.6 (NOTE 2)	110.9
	27 (NOTE 2)	122.3

For WWAN:

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 following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts)

(2) According to FCC 16-24,All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3) 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
19.11	+	2.11	=	21.22

Measurement Value		Limit Value		Margin Level
21.22	-	68.3	=	-47.08

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Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RBW / VBW	1MHz / 3MHz for Peak,		
(Emission in restricted band)	1MHz / 1/T for Average		

Spectrum Parameter	Setting		
Attenuation	Auto		
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector		
Start ~ Stop Frequency	90KHz~110KHz for QP detector		
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector		
Start ~ Stop Frequency	490KHz~30MHz for QP detector		
Start ~ Stop Frequency	30MHz~1000MHz for QP detector		

3.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

3.3 DEVIATION FROM TEST STANDARD

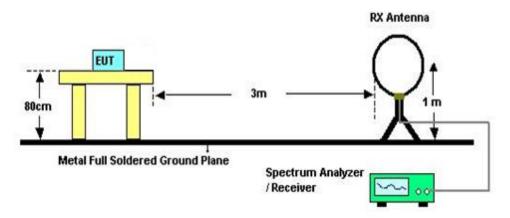
No deviation.

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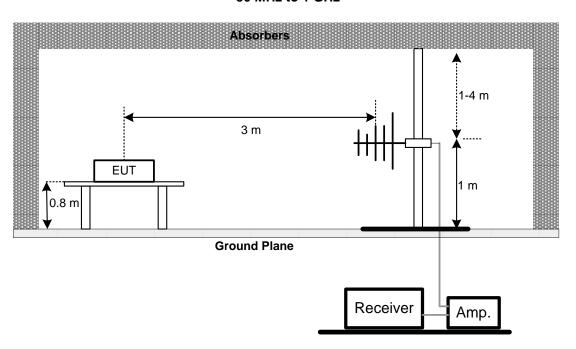


3.4 TEST SETUP

9 kHz to 30 MHz

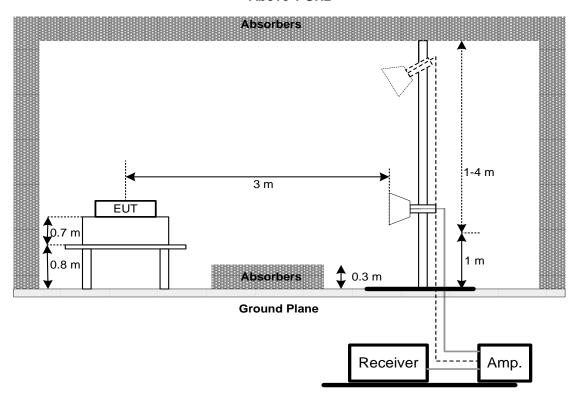


30 MHz to 1 GHz





Above 1 GHz



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT

Please refer to the APPENDIX A.



4 LIST OF MEASURING EQUIPMENTS

	Radiated Emissions									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until				
1	Preamplifier	EMCI	EMC02325B	980217	2021/4/8	2022/4/7				
2	Preamplifier	EMCI	EMC012645B	980267	2021/4/8	2022/4/7				
3	Test Cable	EMCI	EMC-SM-SM-100 0	180809	2021/4/8	2022/4/7				
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2021/4/8	2022/4/7				
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2021/4/8	2022/4/7				
6	MXE EMI Receiver	Agilent	N9038A	MY554200087	2021/5/27	2022/5/26				
7	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24				
8	Horn Ant	SCHWARZBECK BBHA 9120D		9120D-1342	2021/6/2	2022/6/1				
9	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2021/7/9	2022/7/8				
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	VULB 9168-352	2021/8/11	2022/8/10				
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10				
12	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A				
13	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22				
14	Radio Communication Analyzer (LTE)	Anritsu	MT8820C	6201381608	2021/1/7	2022/1/6				

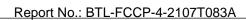
Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

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5 EUT TEST PHOTO							
Please refer to document Appendix No.: TP-2107T083A-FCCP-1 (APPENDIX-TEST PHOTOS).							
6 EUT PHOTOS							
Please refer to document Appendix No.: EP-2107T083A-1 (APPENDIX-EUT PHOTOS).							

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APPENDIX A RADIATED EMISSIONS

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	GHz)_IE		WLAN (2.4 :)_IEEE802.11b+ AN (LTE Band 2)		Test Date		202	2021/9/30		
Te	st Frequ	lency	2442MH	z+ CH1890	00	Polarizat	ion	Ve	rtical	
	Temp		2	21°C		Hum.		7	0%	
130.0 dE	BuV/m									
120										
110										
100										
90										
80										
70										
60										
50		1 2								
40		3 3 X X								
30										
10.0										
	00 3550.0	00 6100.00	8650.00	11200.00	13750.00	16300.00	18850.00 2	21400.00	26500.00 MH:	
No.	Mk.	Freq.	Reading	Correct	Measure	- Limit	Over			
		MHz	Level dBuV	Factor dB	ment dBuV/m	ı dBuV/n	n dB	Detector	Comment	
1		4884.000		-9.76	48.37	74.00	-25.63			
2	*	4884.000	55.66	-9.76	45.90	54.00	-8.10			

REMARKS:

2 3

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

56.01

-8.83

47.18

74.00

-26.82

peak

5613.200



Test Mode		WLAN (GHz)_IEEE8 WWAN (LTE	Test Date			2021/9/30		
	Test Frequency	2442MHz+ C	Polarization			Horizontal		
	Temp	22°C	;		Hum.		6	55%
30.0	dBuV/m							
120 _								
110								
100								
90 - 80 -								
70								
60 <u> </u>								
50	1 X 3							
10								
30								
20 -								

1	000.000	3550.00	6100.00	8650.00	11200.00	13750.00	16300.00	18850.00	21400.00	26500.00 MHz
N	0.	Mk.	Freq.	Reading	Correct	Measure-	- Limit	Over	•	
				Level	Factor	ment				
			MHz	dBuV	dB	dBuV/m	dBuV/r	n dB	Detector	Comment
<u> </u>	1		4884.000	62.49	-9.76	52.73	74.00	-21.2	7 peak	
	2	*	4884.000	59.35	-9.76	49.59	54.00	-4.41	AVG	
3	3		5613.200	55.97	-8.83	47.14	74.00	-26.8	6 peak	

REMARKS:

10.0

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



Test Mode	WLAN (5 GHz)_IEEE802.11a+ WWAN (LTE Band 2)	Test Date	2021/10/1
Test Frequency	5260 MHz+ CH18900	Polarization	Vertical
Temp	23°C	Hum.	54%



47.49

57.95

74.00

68.20

-26.51

-10.25

peak

peak

REMARKS:

2

(1) Measurement Value = Reading Level + Correct Factor.

56.32

53.09

-8.83

4.86

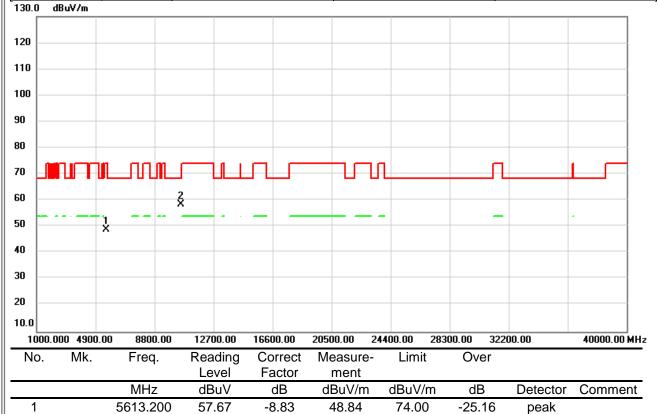
(2) Margin Level = Measurement Value - Limit Value.

5613.200

10520.00



Test Mode	WLAN (5 GHz)_IEEE802.11a+ WWAN (LTE Band 2)	Test Date	2021/10/1
Test Frequency	5260 MHz+ CH18900	Polarization	Horizontal
Temp	23°C	Hum.	54%



REMARKS:

2

(1) Measurement Value = Reading Level + Correct Factor.

53.45

4.86

(2) Margin Level = Measurement Value - Limit Value.

10520.00

End of Test Report

58.31

68.20

-9.89

peak