

0659



FCC Radio Test Report FCC ID: 2AJN7-LN500CG3

Report No. : BTL-FCCP-1-2101T085
Equipment : Notebook Computer

Model Name : Lenovo 500e Chromebook Gen 3

Brand Name : Lenovo

Applicant: LC Future Center

Address : 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan

Radio Function : WCDMA Band V, LTE Band 5, 26

FCC Rule Part(s) : 47 CFR FCC Part 22 Subpart H

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 : 2021/1/18

Date of Test : 2021/1/18 ~ 2021/4/6

Issued Date : 2021/4/23

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-1-2101T085	R00	Original Report.	2021/4/12
BTL-FCCP-1-2101T085	R01	Modified applicant information and model	2021/4/23
		name.	

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I SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Clause No	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
2.1053 22.917(a)	Radiated Spurious Emissions	APPENDIX B	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) The spot check test channels were verified based on the worst channel results reported in the original FCC ID (ZMOL850GL) filing test report.
 - Since the RF module has been certificated, after evaluation, above test items were criticized and reconfirmed in this report.
- (4) After spot check, this revision does not change original radio parameters.

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1.1 TEST FACILITY

The test facilities used to collect the test data in this report	The test facilities	used to	collect the	test data	in this re	port
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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.

oxtimes C05 oxtimes CB08 oxtimes CB11 oxtimes CB15 oxtimes 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 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. AC power line conducted emissions test:

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

B. 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
CD15	1 GHz ~ 6 GHz	5.21
CB15	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	24 °C, 68 %	AC 120V	Vincent Lee
Radiated Spurious Emissions	Refer to data	AC 120V	Jay Kao

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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer						
Model Name	Lenovo 500e Chrom	ebook Gen 3					
Brand Name	Lenovo	Lenovo					
Model Difference	N/A						
Power Source	DC voltage supplied	from External Power Supply.					
	Brand: Lenovo	Brand : Lenovo					
	M/N: ADLX65YAC3	D					
	I/P: 100-240V~1.8A	, 50-60Hz					
	O/P: 20V==3.25A 6	65W / 15V===3A / 9V===2A / 5\	√2A 10.0W				
Power Rating							
	Brand : Lenovo						
	M/N: ADLX45YLC2D						
	I/P: 100-240V~1.3A	50-60Hz					
	O/P: 20V2.25A 4	: 20V2.25A 45W/ 15V3A / 9V2A / 5V2A 10.0W					
Products Covered	2 * Adapter: Lenovo/	ADLX65YAC3D, ADLX45YLC	C2D				
WWAN Module	Fibocom / L850-GL						
	Band	UL Frequency (MHz)	DL Frequency (MHz)				
Operation Frequency	WCDMA V	824 ~ 849	869 ~ 894				
Operation Frequency	LTE 5	824 ~ 849	869 ~ 894				
	LTE 26	824 ~ 849	869 ~ 894				
Test Model	Lenovo 500e Chromebook Gen 3						
Sample Status	Engineering Sample						
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) Table for Filed Antenna:

Antenna	Manufacturer	Parts Number	Туре	Connector	Gain (dBi)	Note
					1.02	WCDMA Band V
Main	INPAQ	DC33001TN00	PIFA	I-PEX	-1.93	LTE Band 5
					-1.93	LTE Band 26
Aux	INPAQ	DC33001TN10	PIFA	I-PEX	-	RX only

2.2 TEST MODES

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
	WCDMA Band V	TX Mode (CH 4357/4407/4458)	-
Radiated Spurious Emissions	LTE Band 5	TX Mode (CH 20450/20525/20600)	-
	LTE Band 26	TX Mode (CH 26865/26915/26965)	-

NOTE:

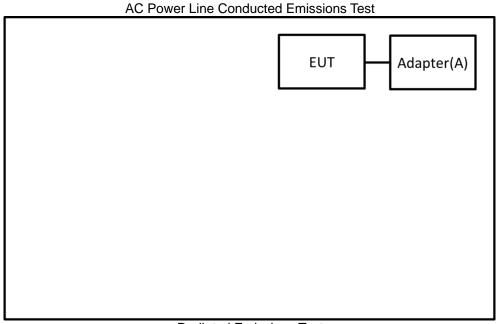
- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) The EUT includes two adapters and both are evaluated. Only the worst case is used for final test.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.

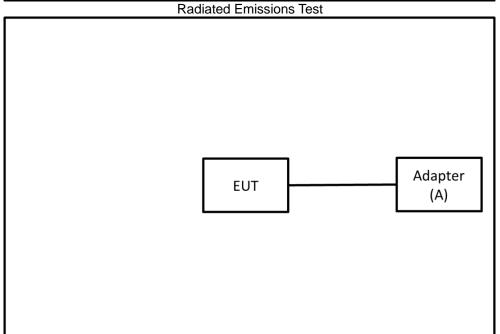
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2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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





2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	Adapter	Lenovo	ADLX65YAC3D	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	0.9m	Power Cord	Furnished by test lab.



3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBμV)				
(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.

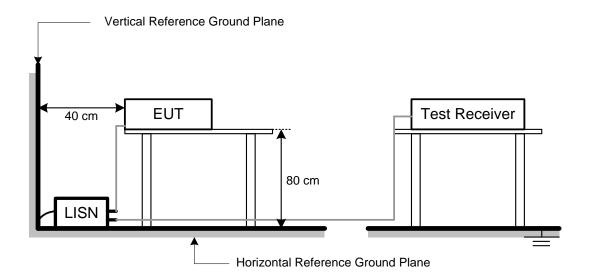
3.3 DEVIATION FROM TEST STANDARD

No deviation.

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3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

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4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.1 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 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	=	-52.54		

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

4.2 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.

4.3 DEVIATION FROM TEST STANDARD

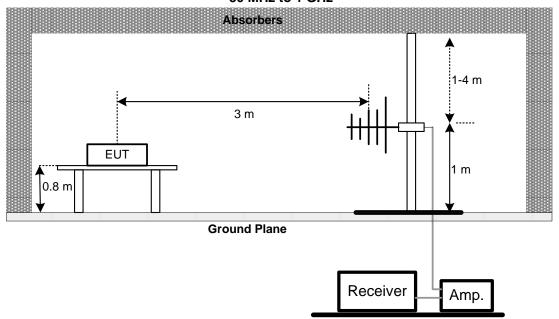
No deviation.

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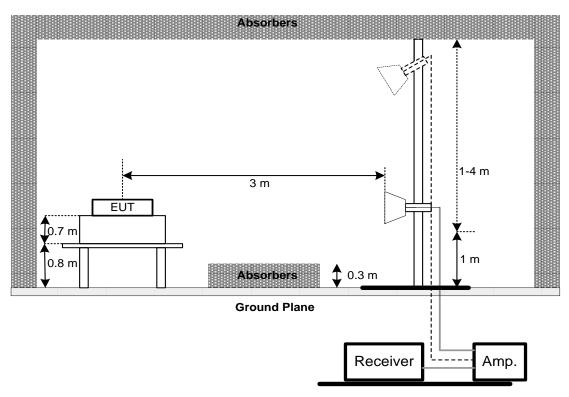


4.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz



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.

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5 LIST OF MEASURING EQUIPMENTS

	AC Power Line Conducted Emissions									
Item Kind of Manufac		Manufacturer	Type No. Serial No.		Manufacturer I IVne No I Serial No I		Calibrated Date	Calibrated Until		
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	2020/6/11	2021/6/10				
2	Test Cable	Test Cable EMCI EMC400-BM-BM- 170501		170501	2020/6/8	2021/6/7				
3	EMI Test Receiver	R&S	ESCI	100080	2020/6/15	2021/6/14				
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A				

			Radiated Emission	ns		
Item	Item Kind of Equipment Manufacturer		Type No.	Serial No.	Calibrated Date	Calibrated Until
1	1 Preamplifier EMCI		EMC02325B	980217	2020/4/10	2021/4/9
2	Preamplifier	EMCI	EMC012645B	980267	2020/4/10	2021/4/9
3	Test Cable	EMCI	EMC-SM-SM-100 0	180809	2020/4/10	2021/4/9
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2020/4/10	2021/4/9
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2020/4/10	2021/4/9
6	6 MXE EMI Receiver Agilent		N9038A	MY554200087	2020/6/10	2021/6/9
7	Signal Analyzer	Agilent	N9010A	MY56480554	2020/8/25	2021/8/24
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2020/6/12	2021/6/11
9	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2020/7/9	2021/7/8
10	Trilog-Broadband Schwarzbeck		VULB 9168	VULB 9168-352	2020/7/24	2021/7/23
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2020/7/24	2021/7/23
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	2020/6/4	2021/6/3
14	Radio Communication Analyzer (LTE)	Anritsu	MT8820C	6201525878	2020/6/3	2021/6/2
15	Radio Communication Analyzer	Anritsu	MT8821C	6262044728	2020/12/15	2021/12/14

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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6 EUT TEST PHOTO							
Please refer to document Appendix No.: TP-2101T085-FCCP-1 (APPENDIX-TEST PHOTOS).							
7 EUT PHOTOS							
Please refer to document Appendix No.: EP-2101T085-1 (APPENDIX-EUT PHOTOS).							

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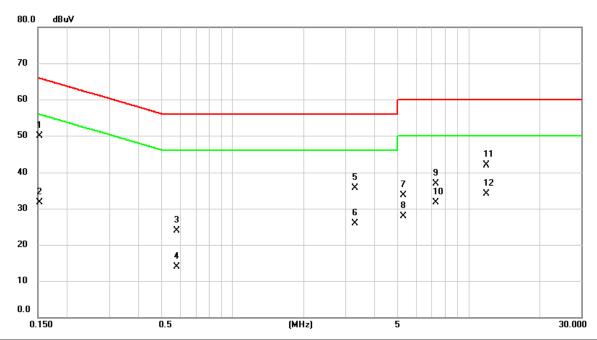




APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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Ш				
	Test Mode	Normal	Tested Date	2021/3/31
	Test Frequency	-	Phase	Line



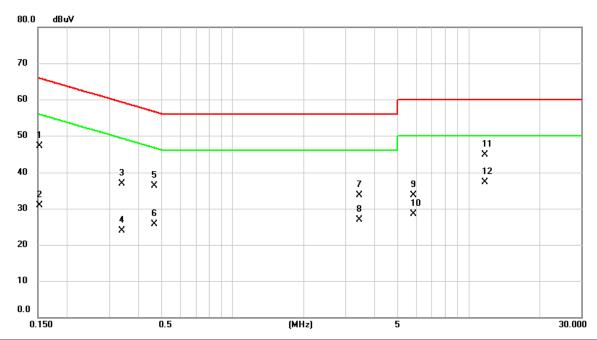
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.1522	40.27	9.68	49.95	65.88	-15.93	QP	
2	0.1522	22.07	9.68	31.75	55.88	-24.13	AVG	
3	0.5820	14.17	9.68	23.85	56.00	-32.15	QP	
4	0.5820	4.18	9.68	13.86	46.00	-32.14	AVG	
5	3.2932	25.86	9.77	35.63	56.00	-20.37	QP	
6	3.2932	16.20	9.77	25.97	46.00	-20.03	AVG	
7	5.2867	23.82	9.83	33.65	60.00	-26.35	QP	
8	5.2867	18.14	9.83	27.97	50.00	-22.03	AVG	
9	7.2960	27.13	9.87	37.00	60.00	-23.00	QP	
10	7.2960	21.83	9.87	31.70	50.00	-18.30	AVG	
11	11.8364	32.06	9.93	41.99	60.00	-18.01	QP	
12 *	11.8364	24.26	9.93	34.19	50.00	-15.81	AVG	

REMARKS:

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

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Ш					
	Test Mode	Normal	Tested Date	2021/3/31	
	Test Frequency	-	Phase	Neutral	



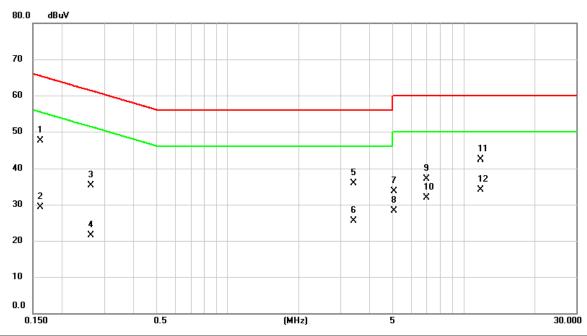
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1522	37.33	9.68	47.01	65.88	-18.87	QP	
2	0.1522	21.24	9.68	30.92	55.88	-24.96	AVG	
3	0.3390	27.26	9.68	36.94	59.23	-22.29	QP	
4	0.3390	14.27	9.68	23.95	49.23	-25.28	AVG	
5	0.4672	26.60	9.68	36.28	56.56	-20.28	QP	
6	0.4672	15.94	9.68	25.62	46.56	-20.94	AVG	
7	3.4507	23.96	9.77	33.73	56.00	-22.27	QP	
8	3.4507	17.20	9.77	26.97	46.00	-19.03	AVG	
9	5.8267	23.90	9.84	33.74	60.00	-26.26	QP	
10	5.8267	18.60	9.84	28.44	50.00	-21.56	AVG	
11	11.6677	34.87	9.93	44.80	60.00	-15.20	QP	
12 *	11.6677	27.46	9.93	37.39	50.00	-12.61	AVG	

REMARKS:

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

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Ш					
	Test Mode	Idle	Tested Date	2021/3/31	ı
	Test Frequency	-	Phase	Line	ı



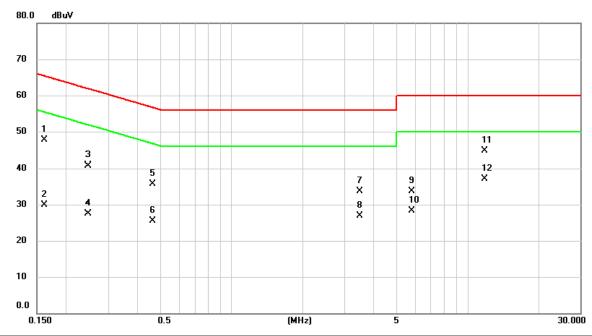
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.1613	37.84	9.68	47.52	65.40	-17.88	QP	
2	0.1613	19.70	9.68	29.38	55.40	-26.02	AVG	
3	0.2625	25.61	9.68	35.29	61.35	-26.06	QP	
4	0.2625	11.90	9.68	21.58	51.35	-29.77	AVG	
5	3.4148	26.09	9.77	35.86	56.00	-20.14	QP	
6	3.4148	15.67	9.77	25.44	46.00	-20.56	AVG	
7	5.0730	23.96	9.83	33.79	60.00	-26.21	QP	
8	5.0730	18.47	9.83	28.30	50.00	-21.70	AVG	
9	6.9923	27.20	9.87	37.07	60.00	-22.93	QP	
10	6.9923	21.97	9.87	31.84	50.00	-18.16	AVG	
11	11.7398	32.47	9.93	42.40	60.00	-17.60	QP	
12 *	11.7398	24.24	9.93	34.17	50.00	-15.83	AVG	

REMARKS:

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

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Test Mode	Idle	Tested Date	2021/3/31
Test Frequency	-	Phase	Neutral



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.1613	37.96	9.68	47.64	65.40	-17.76	QP	
2	0.1613	20.19	9.68	29.87	55.40	-25.53	AVG	
3	0.2468	31.09	9.68	40.77	61.86	-21.09	QP	
4	0.2468	17.92	9.68	27.60	51.86	-24.26	AVG	
5	0.4627	26.06	9.68	35.74	56.64	-20.90	QP	
6	0.4627	15.87	9.68	25.55	46.64	-21.09	AVG	
7	3.4958	24.02	9.77	33.79	56.00	-22.21	QP	
8	3.4958	17.05	9.77	26.82	46.00	-19.18	AVG	
9	5.7862	23.77	9.84	33.61	60.00	-26.39	QP	
10	5.7862	18.51	9.84	28.35	50.00	-21.65	AVG	
11	11.7533	34.73	9.93	44.66	60.00	-15.34	QP	
12 *	11.7533	27.16	9.93	37.09	50.00	-12.91	AVG	

REMARKS:

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

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APPENDIX B RADIATED SPURIOUS EMISSIONS

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		est l				V			and V				st Date				21/4/2	
	Te	st C		nel				1440	7				arizatio	n			rtical	
			mp				2	2°C					Hum.			6	7%	
0.0 	dBı	n																
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30.	000	127	.00	224.	00	321.	00	418.	00	515.	00 (612.00	70	9.00	806.	00	1000.00	_мн
No).	Mk.	•	Freq			ding vel		rrect actor		easure- ment	-	Limit	Ov	er			
				MHz	7	dE	3m		dB		dBm	(dBm	dE	3	Detector	Comm	ent
1				44.06	50	-62	.37	-1	1.30	-	63.67		13.00	- 50.	67	peak		
2				88.91	13	-64	.31	-1	1.63	-	65.94		13.00	- 52.	94	peak		
3				139.77	'15		.02	2	.71	-	66.31		13.00	-53.		peak		
4				265.54	183		.00	7	.69		68.31		13.00	- 55.	31	peak		
5				716.98	363	-75	.34	1:	2.29	-	63.05		13.00	-50.	05	peak		
6		*		879.84	193	-68	3.50	10	0.40	-	58.10	-	13.00	-45.	10	peak		

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

		est l				W			and V	'			Test Dat					1/4/2	
	le	st C		nel				14407	7			Р	olarizati	ion		Н		zontal	
	-In-	Tei	mp				2	2°C					Hum.				6	7%	
10 = 20 = 30 =	dBn	n														***************************************	1		
60		2 X	3 X						4 ×							\$ X			
70 80.0																			
30.0		127		224.0		321.0		418.		515.	00	612.		709.0		.00		1000.00	MH
No.	•	Mk.		Freq	•	Read Lev			rrect actor		easure ment	-	Limit		Over				
				MHz		dB	m	(dB		dBm		dBm		dB	Detect	or	Comm	ent
1				43.547	7 6	-71.	.67	16	5.17	-	55.50		-13.00		-42.50	peak	(
2				89.267	70	-66.	.06	3	.81	-	62.25		-13.00		-49.25	peak	(
3				139.64	23	-68.	.27	2	.70	-	65.57		-13.00		-52.57	peak	(
4				455.11	86	-76.	.63	12	2.39	-	64.24		-13.00		-51.24	peak	(
5				825.62	63	-75.	.77	15	5.82	-	59.95		-13.00		-46.95	peak	(
6		*		880.17	26	-70.	55	16	6.00	-	54.55		-13.00		-41.55	peak	(

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

	Τe	est Mo	ode		WC	DM	A Ba	and V	'		-	Test Da	ate			202	1/4/2	
	Tes	t Cha	ınnel				4357	7			Р	olariza	tion				rtical	
		Temp)			22	2°C					Hum				6	7%	
10.0	dBm																	_
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60.0 810.0	ากก	815.00	0 820.0	n	825.00		830.0	nn	835.	nn	840.	nn	845.0	nn	850.	nn	860.00	_
No.		Mk.	Freq.		Readii Leve	ng	Со	rrect	Me	easur ment		Limit		Ove			000.00	mn
			MHz		dBm			dΒ		dBm		dBm		dB		Detector	Comm	ent
1		*	827.643	33	-28.5	9	34	1.26		5.67		38.45	5	-32.7	78	peak		

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

	Test Mo		WCDN	/IA Band V		Test Date	e	202	1/4/2	
Ţ	est Cha			14357		Polarization	on		zontal	
	Temp		2	2°C		Hum.		6	7%	
40.0 dl	3 m									_
30										-
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o			1 *							
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10 -										-
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40										
50										-
60.0										
810.00			825.00	830.00).00	860.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comm	ent
1	*	826.3900	-21.62	33.55	11.93	38.45	-26.52	peak		

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

	Tes	st Mo	de	WCDN	/IA Band V		Test Date	9	202	21/4/2	
	Test	Char	nnel	CH	l4407		Polarization	on	Ve	rtical	
	•	Temp		2	2°C		Hum.		6	7%	
\$0.0 	dBm										_
30											_
20											-
10						1 *					-
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10											-
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40											-
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60.0											
810.0		815.00		825.00	830.00			15.00 850	.00	860.00	МН
No.	Λ	Лk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
			MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1		*	836.6933	-29.41	34.23	4.82	38.45	-33.63	peak		

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

	Test Mo			MA Band V		Test Date			1/4/2	
	Test Chai			14407	ŀ	Polarizatio	n		zontal	
	Temp	l .	2	2°C		Hum.		6	7%	
40.0	dBm									=
30										-
20										
0					1 X					
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60.0	00 015 00	020.00	025.00	020.00	025 00 24	0.00	F 00 050	100	000.00	<u> </u>
810.00 No.	00 815.00 Mk.		825.00 Pooding	830.00 Correct	835.00 84 Measure-	0.00 84 Limit	5.00 850 Over	1.00	860.00	МН
INU.	IVIK.	Freq.	Reading Level	Factor	ment	LIIIIII	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	837.7050	-21.11	33.52	12.41	38.45	-26.04	peak		

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

	est Mo			1A Band V		Test Date			1/4/2	
Te	st Char			4458		Polarizatio	n		rtical	
10.0 dBı	Temp		2	2°C		Hum.		6	7%	
10.0 aB1	n									₹
30										-
20										
10							1			
,							x ×			
10										-
20										
30										
40										
50										-
60.0										
810.000	815.00	820.00	825.00	830.00			5.00 850	.00	860.00	MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	845.6267	-29.09	34.20	5.11	38.45	-33.34	peak		

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

	Test Mo			1A Band V		Test Da			1/4/2	
Te	est Char			14458		Polariza			zontal	
10.0 ID	Temp		2	2°C		Hum		6	7%	
40.0 dB	m									7
30										-
.0										
0							1 X			
ı										
10										
20										
30										
40										
50										
60.0	015.00	020.00	005.00	000 00	005.00	040.00	045.00		000.00]
810.000 No.	815.00 Mk.	820.00 Freq.	825.00 Reading	830.00 Correct	835.00 Measure	840.00 - Limit		50.00	860.00	МН
110.	IVIIV.	1 1 5 4.	Level	Factor	ment					
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	845.7450	-21.31	33.50	12.19	38.45	-26.26	peak		

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

	Test Mo			1A Band V		Test Date			1/4/2
	Test Char			14407		Polarization	on		rtical
	Temp		2	2°C		Hum.		6	7%
).O 	dBm								
10									
20									
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50	* X								
50 <u> </u>									
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	0.000 2900.00		6700.00	8600.00				200.00	20000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2512.400	-46.05	-4.22	-50.27	-13.00	-37.27	peak	

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

	Test Mo			//A Band V		Test Date			1/4/2
	Test Char			14407		Polarization	on		zontal
	Temp		2	2°C		Hum.		6	7%
).O 	dBm								
10									
20									
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io									
70									
BO -									
90									
100.0									
	0.000 2900.00		6700.00	8600.00				200.00	20000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2513.033	-47.47	-4.45	-51.92	-13.00	-38.92	peak	

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

	Test					Band 5				st Date			1/4/2	
	Test C		inel			20525				rizatio	n		rtical	
		emp			2	2°C			F	lum.		6	7%	
0.0	dBm													7
-10														
20														-
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40														
50														
-60 1 ×	2 X	3 X		4 ×					5 X	}		ě		
80.0 30.00	10 10	7.00	224.00	221	00	418.00		515.00	612.00	70	9.00 806	200	1000.00	
No.	Mk	7.00 (.	Freq.		ading	Corre	ct	Measure		imit.	Over		1000.00	МН
			MHz		evel 3m	Facto dB)ľ	ment dBm	0	lBm	dB	Detector	Comme	ent
1			44.2913		2.96	-1.30)	-64.26		3.00	-51.26	peak	30111111	Ont
2			88.9113		5.78	-1.63		-67.41		3.00	-54.41	peak		
3			139.6423	3 -70	08.0	2.68	}	-68.12	-1	3.00	-55.12	peak		
4			282.1030) -7!	5.62	7.65	5	-67.97	-1	3.00	-54.97	peak		
5	*		632.7903	3 -70	6.40	12.5	1	-63.89	-1	3.00	-50.89	peak		
6			826.1760	7:	5.22	9.49)	-65.73	-1	3.00	-52.73	peak		

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

		est Mo			Band 5		Test Date			1/4/2	
	Te	st Cha			120525		Polarization	on		zontal	
		Temp		2	22°C		Hum.		6	7%	
0.0	dBı	n									7
-10											
-20											-
-30											
-40											
-50									8 8		
-60	X										
		2 X			*			5 X			
-70			X								1
-80.0	4										
	0.000	127.00		321.00	418.00			9.00 806	.00	1000.00	МН
N	0.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over			
			MHz	dBm	dB	dBm	dBm	dB	Detector	Comm	ent
	1		43.8386	-72.03	16.09	-55.94	-13.00	-42.94	peak		
	2		115.3923	-67.84	2.90	-64.94	-13.00	-51.94	peak		
	3		196.2903	-69.49	-1.76	-71.25	-13.00	-58.25	peak		
	4		453.3403	-76.35	12.38	-63.97	-13.00	-50.97	peak		
	5		716.7923	-75.51	10.52	-64.99	-13.00	-51.99	peak		
-	3	*	854.5323	-68.26	16.36	-51.90	-13.00	-38.90	peak		

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

-	Test Mo	de	LTE	Band 5		Test Date		202	1/4/2	
Te	est Char	nnel		20450		Polarizatio	n	Ve	rtical	
	Temp		2	2°C		Hum.		6	7%	
40.0 dB	m									7
										1
30										1
20				1 X						1
10				×						
0										-
-10										1
-20										1
-30										1
-40										
-40										1
-50										
-60.0										
800.000	806.00	812.00	818.00	824.00	830.00 83	36.00 842	2.00 848	3.00	860.00	_ МН:
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over			
			Level	Factor	ment					
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	∍nt
1	*	824.6640	-20.72	34.27	13.55	38.45	-24.90	peak		

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

	est Mo			Band 5		Test Date			1/4/2	
Те	st Char			20450		Polarizatio	n		zontal	
10.0 ID	Temp		2	2°C		Hum.		6	7%	
10.0 dBı	n						+			=
30										-
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:0				^						
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40										
50										-
60.0										
800.000	806.00		818.00	824.00			2.00 848	.00	860.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	824.6220	-13.49	33.55	20.06	38.45	-18.39	peak		

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

	Test Mo			Band 5		Test Date			1/4/2	
Т	est Cha			20525		Polarizatio	n		rtical	
	Temp)	2	2°C		Hum.		6	7%	
10.0 d	Bm									=
80										-
0										
o					1 *					
10										
20										
30										
40										
50										-
60.0 800.00	0 806.00	812.00	818.00	824.00	830.00 83	36.00 84	2.00 848	00	860.00	<u> </u>
No.	мк.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	2.00 848 Over	.00	66U.UU	МН
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comm	ent
1	*	832.1220	-21.53	34.24	12.71	38.45	-25.74	peak		

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

	Test Mo			Band 5		Test Date			1/4/2	
T	est Char			20525		Polarization	on		zontal	
	Temp		2	2°C		Hum.		6	7%	
40.0 dl	lm .									=
30										-
,,,										
20					1 X					$\frac{1}{1}$
10										
ı										-
10										
20										
30										
40										
50										-
-60.0										
800.000			818.00	824.00			12.00 848	.00	860.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comm	ent
1	*	832.0880	-14.38	33.53	19.15	38.45	-19.30	peak	•	

REMARKS:

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

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	est Mo			Band 5		Test Date			1/4/2	
Te	st Char			20600		Polarizatio	n		rtical	
10.0 ID	Temp		2	2°C		Hum.		6	7%	
10.0 dBı	n									=
30										-
20										
10						1 *				
10										
20										
30										1
40										-
50										-
60.0	000 00	012.00	010.00	024.00	020.00	020 00 041	2.00	00	000.00	<u> </u>
800.000 No.	806.00 Mk.	812.00 Freq.	818.00 Reading	824.00 Correct	830.00 Measure		2. 00 848 Over	.00	860.00	МН
. 10.	.,,,,,		Level	Factor	ment					
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comm	ent
1	*	839.6220	-20.55	34.22	13.67	38.45	-24.78	peak		

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

	Test	Mod	de	LTE	Band 5		Test Da	ite	202	1/4/2	
	Test C	han	inel	CH	20600		Polariza	tion	Hori	zontal	
		mp		2	2°C		Hum.		6	7%	
40.0	dBm										=
30											-
20							1 ×				
10											
o											-
10											-
20											
30											-
40											-
-50											-
-60.0											
800.0		6.00	812.00	818.00	824.00	830.00			8.00	860.00	МН
No.	Mk	-	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
			MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*		839.6540	-13.75	33.51	19.76	38.45	-18.69	peak		

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

	Test	Mod	е	L	TE Bai	nd 5			Т	est Da	ate			202	1/4/2	
	Test C	hanı	nel	C	H205				Po	olariza	tion			Ve	rtical	
		mp			22°C					Hum				6	7%	
0.0	dBm															1
10																
20																
30																
40	1 X															
50																
60																
70																
80																
90																
100.0	0.000 290	20.00	4800.00	6700.00	000	00.00	10500	2.00	1240	0.00	14300		16200	0.00	20000 00	<u> </u>
No.			Freq.	Readin		orrect		asure		Limit		Ove		U.UU	20000.00	МН
			<u> </u>	Level		actor		nent								
			MHz	dBm		dB	С	dBm		dBm		dB		Detector	Comme	nt
1	*		2496.567	-39.65		4.35	-4	4.00		-13.00))	-31.0	00	peak		

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

	Test Mod			Band 5		Test Date			1/4/2
To	est Chan	nel		20525		Polarization	n		zontal
	Temp		2	2°C		Hum.		6	7%
).O dE	3m								
10									
20									
30									
4 0									
50 -	*								
60									
70									
80									
90									
100.0									
	00 2900.00		6700.00	8600.00				00.00	20000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2496.567	-47.04	-4.70	-51.74	-13.00	-38.74	peak	

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

		est N					LTE						Test Da				21/4/2	
	Tes	st Cl		nel				2691	5			P	olarizat				rtical	
		Ter	mp				2	2°C					Hum.			6	7%	
0.0	dBm	1																\neg
-10																		
20																		4
30 _																		
40																		
50 _																		
-60 1 ×	:	2 X	×	4 ×	5 X									8 X				
80.0	00	107	00	224	00	221	20	410	00	F1F	00	C12	00	700	00 000	200	1000 00	
30.0 No.		127 Mk.		22 4 . Fred		321.0 Rea		418.	rrect	515.	easure	612.	Limit	709.	00 806 Over	.00	1000.00	МН
INO.		IVIK.		1160		Le			ctor		ment	;-	LIIIII		Ovei			
				MHz	7	dB			dB		dBm		dBm		dB	Detector	Comm	ent
1				44.12	96	-65	.09	-1	.30		66.39		-13.00		-53.39	peak		
2				88.91	13	-67	.01	-1	.63	-	68.64		-13.00		-55.64	peak		
3				139.73		-70	.34	2	.70		67.64		-13.00		-54.64	peak		
4				195.57		-72	.22		.21		69.01		-13.00		-56.01	peak		
5				261.11	86	-74	.27	7	.70		66.57		-13.00		-53.57	peak		
6		*		698.36	623	-76	.12	12	2.66	-	63.46		-13.00		-50.46	peak		

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

		t Mo				Band					est Date			1/4/2	
	Test					2691	5			Po	olarizatio	n		zontal	
		emp			2	2°C					Hum.		6	7%	
).0	dBm														٦
10															
20															
30 _															
40															
50 1													6 X		
60	X	3 X				4 ×	5 X						X		
70		^													
30.0															
30.0		27.00	224.00	321.		418.0	DO	515.	00 E	612.0		9.00 806	.00	1000.00	MH
No.	M	k.	Freq.		iding vel		rrect ictor		easure- ment	•	Limit	Over			
			MHz	dE	3m	(dB		dBm		dBm	dB	Detector	Comm	ent
1	1	k .	43.9680	-70).70	16	6.06		54.64		-13.00	-41.64	peak		
2			75.4930	-68	3.25	5	.06	-	63.19		-13.00	-50.19	peak		
3			139.7070	-69).41	2	.70		66.71		-13.00	-53.71	peak		
4			411.8890) -72	2.15	7	.65	-	64.50		-13.00	-51.50	peak		
5			460.5830) -75	5.63	12	2.43	-	63.20		-13.00	-50.20	peak		
6			855.0173	3 -72	2.88	16	3.35	_	56.53		-13.00	-43.53	peak		

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

	Test Mo			Band 26		Test Date			21/4/2	
	Test Chai			26865		Polarizatio	n		rtical	
	Temp		2	2°C		Hum.		6	7%	
0.0	dBm									_
:0										-
Ĭ										
0			-							-
o			*							
·										-
10										-
20										-
30										
40 —										-
50										-
60.0										
800.0			824.00	832.00			6.00 864	.00	880.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	824.8027	-21.50	34.27	12.77	38.45	-25.68	peak		

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

	Test Mo			Band 26		Test Date			1/4/2	
	Test Char			26865		Polarizatio	n		zontal	
	Temp		2	2°C		Hum.		6	7%	
10.0	dBm									╕
30										-
:0			×							+
0										-
· _										-
10 —										
20										-
30										-
40										-
50										-
60.O										
800.00		816.00	824.00	832.00			6.00 864	.00	880.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	824.8160	-14.39	33.55	19.16	38.45	-19.29	peak		

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

	Te	est M	ode				LTE	Band	d 26				Test Da	ate			202	1/4/2	
	Tes	t Cha	anne	el				2691	5			Р	olariza	tion			Vei	rtical	
		Tem	р				2	2°C					Hum.				6	7%	
40.0	dBm																		_
30																			
20 _																			
10								X											
																			-
10																			
20																			-
30																			-
40																			-
-50																			
-60.0																			
800.0		808.0	10	816.		824		832.		840.		848		856.0		864.	00	880.00	МН
No.		Mk.		Freq	- 		ading evel		rrect actor		easur ment	e- 	Limit		Ove	·r			
				MHz	7	dl	3m		dB		dBm		dBm		dB		Detector	Comm	ent
1		*	8	29.84	127	-2	1.73	3,	4.25		12.52		38.45	;	-25.9	93	peak		

REMARKS:

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

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	Test Mo			Band 26		Test Date			1/4/2	
Te	est Char			26915		Polarizatio	n		zontal	
	Temp		2	2°C		Hum.		6	7%	
40.0 dB	m									_
										_
:0										1
20				1 ×						-
0										-
10										-
20										-
30										-
40										-
50										-
60.0										
800.000		816.00	824.00	832.00			6.00 864	.00	880.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	829.8427	-14.34	33.54	19.20	38.45	-19.25	peak		_

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

	Test	Mod	de	LTE	Band 26		Test Da	te	202	21/4/2	
	Test C	har	nnel	CH	26965		Polarizat	ion	Ve	rtical	
	Te	mp		2	22°C		Hum.		6	7%	
40.0	dBm										_
30											-
20											
10					1 ×						
,											
10											
20											
30											
40											
50											-
60.0											
800.0		8.00	816.00	824.00	832.00	840.00			1.00	880.00	МН
No.	Mk	ζ.	Freq.	Reading Level	Correct Factor	Measure ment	e- Limit	Over			
			MHz	dBm	dB	dBm	dBm	dB	Detector	Commo	ent
1	*		834.8720	-21.44	34.24	12.80	38.45	-25.65	peak		

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

T	est Mo	de	LTE	Band 26		Test Date	•	202	1/4/2	
Te	st Char	nnel		26965		Polarizatio	on		zontal	
	Temp		2	2°C		Hum.		6	7%	
10.0 dBi	n							-		_
10										-
20				X						1
0										\parallel
ı										-
10										
20										
30										
40										
50										-
60.O										
800.000			824.00	832.00			6.00 864	.00	880.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	834.8667	-14.57	33.53	18.96	38.45	-19.49	peak		

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

Test Mode			LTE	Band 26	Test Date			2021/4/2	
Test Channel			CH	26915	Polarization			Vertical	
Temp				2°C		Hum.		67%	
0.0	dBm						1		
10									
20									
30	1 X								
40									
50 _									
60									
70									
BO									
90 _									
100.0									
	0.000 2900.0		6700.00	8600.00				200.00	20000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	2489.600	-29.66	-4.36	-34.02	-13.00	-21.02	peak	

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

Test Mode			LTE	Band 26		Test Date			2021/4/2	
Test Channel			CH:	26915		Polarization		Horizontal		
Temp			22°C			Hum.		67%		
0.0	dBm									
10										
20										
30										
40	*									
50										
60										
70										
BO -										
90										
100.0										
	.000 2900.0		6700.00	8600.00				200.00	20000.00 MH	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1	*	2489.600	-35.34	-4.73	-40.07	-13.00	-27.07	peak		

REMARKS:

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

End of Test Report