

TEST REPORT

No. I22N01112-BLE

for

Shenzhen Tinno Mobile Technology Corp.

Smart Phone

Model Name: U328AA

with

Hardware Version: V1.0

Software Version: U328AAV01.08.10

FCC ID: XD6U328AA

Issued Date: 2022-07-25

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

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1. Summary of Test Report

1.1. Test Items

Product Name	Smart Phone
Model Name	U328AA
Applicant's name	Shenzhen Tinno Mobile Technology Corp.
Manufacturer's Name	Shenzhen Tinno Mobile Technology Corp.

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date:	2022-05-19
Testing End Date:	2022-07-25

1.6. Signature

Lin Zechuang (Prepared this test report)

An Ran (Reviewed this test report)

Zhang Bojun (Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name:	Shenzhen Tinno Mobile Technology Corp.
	27-001, South Side of Tianlong Mobile Headquarters Building,
Address:	Tongfa South Road, Xili Community, Xili Street, Nanshan District,
	Shenzhen ,PRC
Contact Person	xiaoping.li
E-Mail	xiaoping.li@tinno.com
Telephone:	0755-86095550
Fax:	0755-86095551

2.2. Manufacturer Information

Company Name:	Shenzhen Tinno Mobile Technology Corp.
	27-001, South Side of Tianlong Mobile Headquarters Building,
Address:	Tongfa South Road, Xili Community, Xili Street, Nanshan District,
	Shenzhen ,PRC
Contact Person	xiaoping.li
E-Mail	xiaoping.li@tinno.com
Telephone:	0755-86095550
Fax:	0755-86095551



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Product Name	Smart Phone
Model Name	U328AA
Frequency Range	2400MHz~2483.5MHz
Equipment type	Bluetooth [®] Low Energy
Type of Modulation	GFSK
PHY	LE 1M/2M
Number of Channels	40
Antenna Type	Embedded antenna
Antenna Gain	-0.82dBi
Power Supply	3.85V DC by Battery
FCC ID	XD6U328AA
Condition of EUT as received	No abnormality in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT02aa	866913060002471	V1.0	U328AAV01.08.10	2022-05-18
UT16aa	866913060013221	V1.0	U328AAV01.08.10	2022-06-20

*EUT ID: is used to identify the test sample in the lab internally.

UT02aa is used for conduction test, UT16aa is used for radiation test and AC Power line Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	AE ID*
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/

AE1-1

Model	LT25H426271P
Manufacturer	Guangdong Fenghua New Energy Co.,Ltd.
Capacity	2500mAh
Nominal Voltage	3.85V
AE1-2	
Model	LT25H426271W
Manufacturer	Ningbo Veken Battery Co., Ltd.
Capacity	2500mAh



Nominal Voltage AE2-1	3.85V
Model	TN-050120U9
Manufacturer	Chongqing Lianmao Electronics Co., Ltd.
AE2-2	
Model	TN-050120U8
Manufacturer	Guangdong Beicom Electronics Co., Ltd.
AE3-1	
Model	336275
Manufacturer	SUNTOPS (SHENZHEN) ELECTRONICS CO., LTD
AE3-2	
Model	T365-011B-1
Manufacturer	Shenzhen Yihuaxing Electronics Co. Ltd.

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment under Test (EUT) is a model of Smart Phone with integrated antenna and battery. It consists of normal options: Lithium Battery, Charger and USB Cable. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client.



4. <u>Reference Documents</u>

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15	FCC CFR 47, Part 15, Subpart C:	2019
	15.205 Restricted bands of operation;	
	15.209 Radiated emission limits, general requirements;	
	15.247 Operation within the bands 902–928MHz,	
	2400–2483.5 MHz, and 5725–5850 MHz	
ANSI C63.10	American National Standard of Procedures for Compliance	2013
	Testing of Unlicensed Wireless Devices	



5. Test Results

5.1. Testing Environment

Normal Temperature:	15~35°C
Relative Humidity:	20~75%

5.2. Test Results

No	Test cases	Sub-clause of Part 15C	Verdict
0	Antenna Requirement	15.203	Р
1	Maximum Peak Output Power	15.247 (b)	Р
2	Peak Power Spectral Density	15.247 (e)	Р
3	6dB Bandwidth	15.247 (a)	Р
4	Band Edges Compliance	15.247 (d)	Р
5	Transmitter Spurious Emission - Conducted	15.247 (d)	Р
6	Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	Р
7	AC Power line Conducted Emission	15.107, 15.207	Р

See **ANNEX A** for details.

5.3. <u>Statements</u>

SAICT has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.



6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
2	Power Sensor	U2021XA	MY55430013	Keysight	2022-12-29	1 year
3	Data Acquisiton	U2531A	TW55443507	Keysight	/	/
4	RF Control Unit	JS0806-2	21C8060398	Tonscend	2023-05-08	1 year
5	Test Receiver	ESCI	100701	Rohde & Schwarz	2023-01-12	1 year
6	LISN	ENV216	102067	Rohde & Schwarz	2023-07-14	1 year

Radiated test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Loop Antenna	HLA6120	35779	TESEQ	2025-05-12	3 years
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066577	ETS-Lindgren	2025-04-17	3 years
4	Horn Antenna	QSH-SL-18 -26-S-20	17013	Q-par	2023-01-06	3 years
5	Horn Antenna	QSH-SL-8- 26-40-K-20	17014	Q-par	2023-01-06	3 years
6	Test Receiver	ESR7	101676	Rohde & Schwarz	2022-11-24	1 year
7	Spectrum Analyser	FSV40	101192	Rohde & Schwarz	2023-01-12	1 year
8	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years

Test software

No.	Equipment	Manufacturer	Version
1	RF Test System	Tonscend	3.1
2	EMC32	Rohde & Schwarz	10.50.40

EUT is engineering software provided by the customer to control the transmitting signal. The EUT was programmed to be in continuously transmitting mode.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren



7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< \pm 4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	\leq 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



8. <u>Measurement Uncertainty</u>

Test Name	Uncertainty (<i>k</i> =2)	
1. Maximum Peak Output Power	1.32	dB
2. Peak Power Spectral Density	2.32	dB
3. 6dB Bandwidth	4.56	(Hz
4. Band Edges Compliance	1.92	dB
	30MHz≤f<1GHz	1.41dB
E Transmitter Spurious Emission Conducted	1GHz≤f<7GHz	1.92dB
5. Transmitter Spurious Emission - Conducted	7GHz≤f<13GHz	2.31dB
	13GHz≤f≤26GHz	2.61dB
	9kHz≤f<30MHz	1.79dB
C. Transmitter Courieurs Emissien - Dedicted	30MHz≤f<1GHz	4.86dB
6. Transmitter Spurious Emission - Radiated	1GHz≤f<18GHz	4.50dB
	18GHz≤f≤40GHz	2.90dB
7. AC Power line Conducted Emission	150kHz≤f≤30MHz	2.62dB



ANNEX A: Detailed Test Results

Test Configuration

The measurement is made according to ANSI C63.10.

1) Conducted Measurements

- 1. Connect the EUT to the test system correctly.
- 2. Set the EUT to the required work mode.
- 3. Set the EUT to the required channel.
- 4. Set the spectrum analyzer to start measurement.
- 5. Record the values.

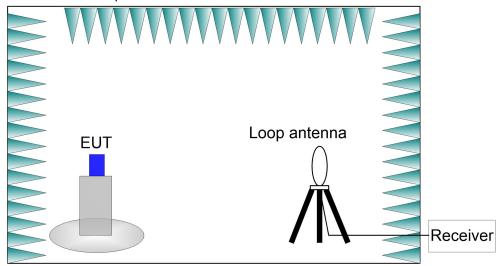


2) Radiated Measurements

Test setup:

9kHz-30MHz:

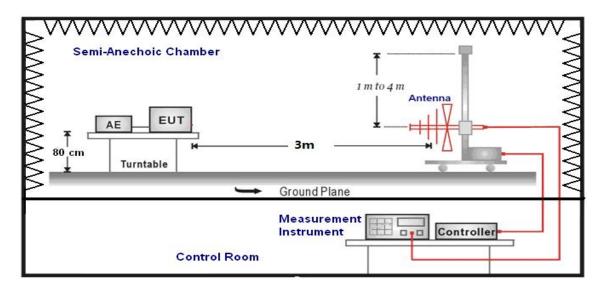
The EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.





30MHz-1GHz:

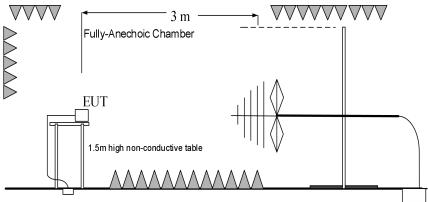
The EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving antenna is 1.0 meter to 4.0 meter above the ground. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiver antenna polarization.



Above 1GHz:

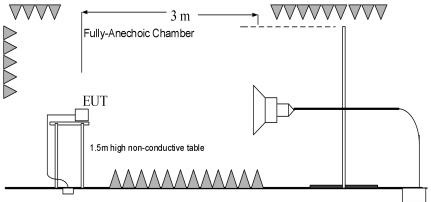
EUT was placed on a 1.5 meter high non-conductive table at a 3 meter test distance from the receive antenna. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT and adjusting the receiving antenna polarization.

1GHz-3GHz:



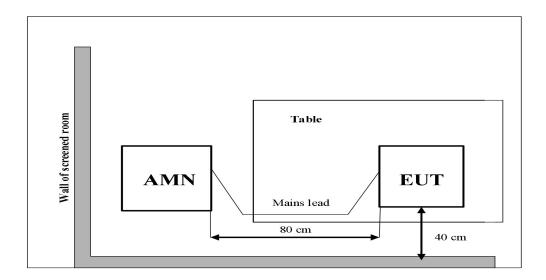


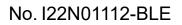
3GHz-40GHz:



3) AC Power line Conducted Emission Measurement

For Bluetooth LE, the EUT is working under test mode. The EUT is commanded to operate at maximum transmitting power.







A.0 Antenna requirement

Measurement Limit:

Standard	Requirement
	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. The manufacturer may design the unit so that a broken antenna can
	be replaced by the user, but the use of a standard antenna jack or electrical
FCC CRF Part	connector is prohibited. This requirement does not apply to carrier current devices
15.203	or to devices operated under the provisions of §15.211, §15.213, §15.217,
	§15.219, or §15.221. Further, this requirement does not apply to intentional
	radiators that must be professionally installed, such as perimeter protection
	systems and some field disturbance sensors, or to other intentional radiators
	which, in accordance with §15.31(d), must be measured at the installation site.
	However, the installer shall be responsible for ensuring that the proper antenna is
	employed so that the limits in this part are not exceeded.

Conclusion: The Directional gains of antenna used for transmitting is -0.82dBi. The RF transmitter uses an integrate antenna without connector.



A.1 Maximum Peak Output Power

Method of Measurement: See ANSI C63.10-clause 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter.

Measurement Limit:

Standard	Limit (dBm)
FCC 47 CRF Part 15.247(b)	< 30

Measurement Results:

Mode	Frequency (MHz)	RF output power (dBm)	Conclusion
	2402(CH0)	-3.44	Р
LE 1M	2440(CH19)	-2.50	Р
	2480(CH39)	-3.69	Р
	2402(CH0)	-3.56	Р
LE 2M	2440(CH19)	-2.59	Р
	2480(CH39)	-3.73	Р

Conclusion: Pass



A.2 Peak Power Spectral Density

Method of Measurement: See ANSI C63.10-clause 11.10.2

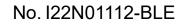
Measurement Limit:

Standard	Limit (dBm/3 kHz)
FCC 47 CRF Part 15.247(e)	< 8 dBm/3 kHz

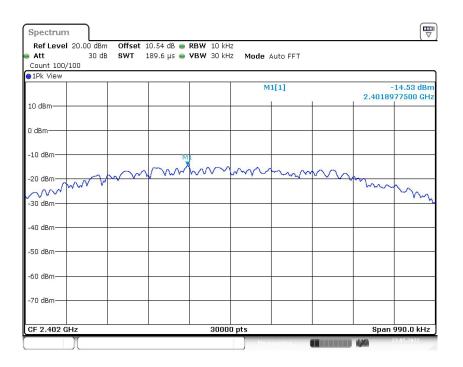
Measurement Results:

Mode	Frequency (MHz)	•	Peak Power Spectral Density (dBm/10 kHz)	
	2402(CH0)	Fig.1	-14.53	Р
LE 1M	2440(CH19)	Fig.2	-13.54	Р
	2480(CH39)	Fig.3	-14.71	Р
	2402(CH0)	Fig.4	-17.80	Р
LE 2M	2440(CH19)	Fig.5	-16.66	Р
	2480(CH39)	Fig.6	-17.93	Р

See below for test graphs. Conclusion: PASS









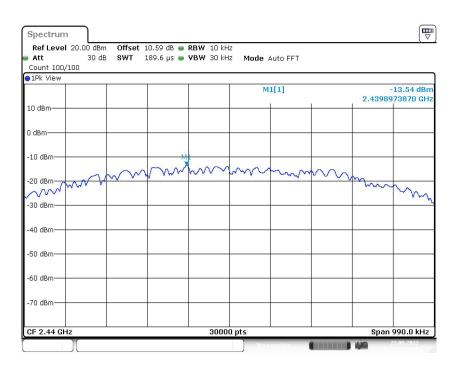
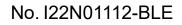
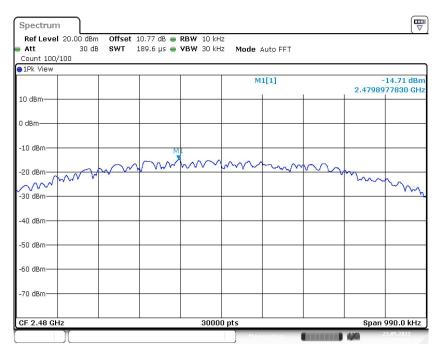


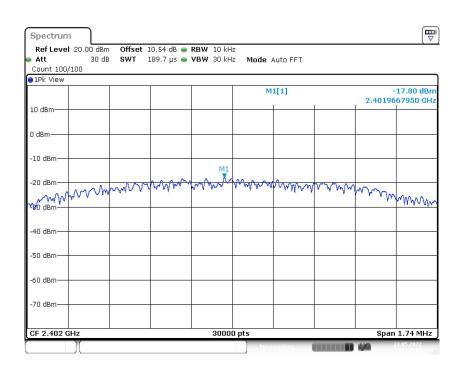
Fig.2 Power Spectral Density (CH19), LE 1M





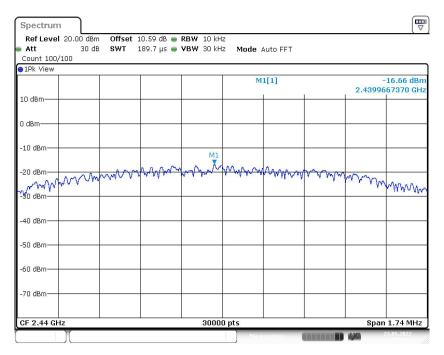




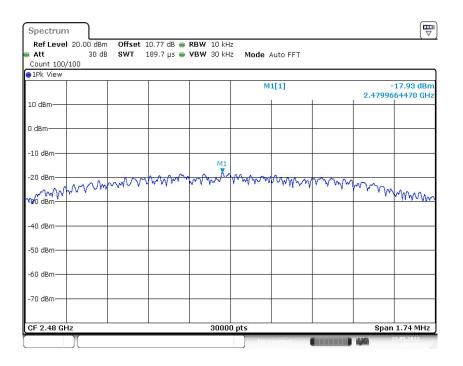
















A.3 6dB Bandwidth

Method of Measurement: See ANSI C63.10-clause 11.8.2

Measurement Limit:

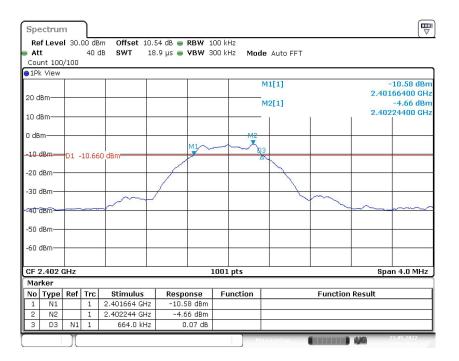
Standard	Limit (MHz)
FCC 47 CFR Part 15.247 (a)	≥ 0.5

Measurement Result:

Mode	Frequency (MHz)	Test Resu	Test Results (MHz)			
	2402(CH0)	Fig.7	0.66	Р		
LE 1M	2440(CH19)	Fig.8	0.66	Р		
	2480(CH39)	Fig.9	0.66	Р		
	2402(CH0)	Fig.10	1.16	Р		
LE 2M	2440(CH19)	Fig.11	1.16	Р		
	2480(CH39)	Fig.12	1.16	Р		

See below for test graphs. Conclusion: PASS







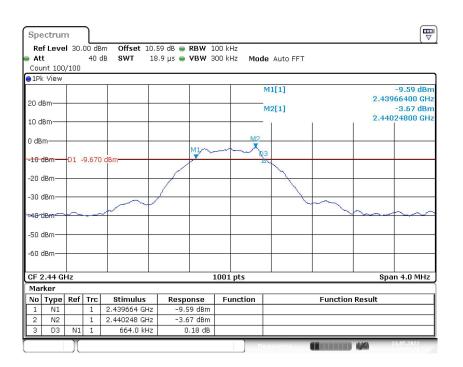
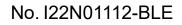


Fig.8 6dB Bandwidth (CH19), LE 1M





Spectr	um		ſ								
Ref Le	evel 3	30.0).77 dB 😑						
Att			40 c	iB SWT 1	L8.9 μs 👄	VBW 3	00 kHz Mod	e Auto FFT			
Count		00									
●1Pk Vie	BW					. <u> </u>					
								M1[1]			10.68 dBm 66400 GHz
20 dBm-								M2[1]			-4.87 dBm
								12[1]			24400 GHz
10 dBm-								1	Ĩ		
0 dBm—											
o ubiii-						5.4.4					
-10 dBm	_	1.0	10.07	0 dBm		M1~	- A	3			
	D.	1 -	10.01	U UBIII	/	-	2				
-20 dBm								1			
					1						
-30 dBm				~	1			1			
-	-		~								
-40 dBm											
-50 dBm											
00 0011											
-60 dBm											
CF 2.48	3 GHz					L	1001 pts			Sna	n 4.0 MHz
Marker		_								590	
No Ty		of	Trc	Stimulus	Respo	nse	Function		Function	Result	
	11	-	1	2.479664 GHz		58 dBm	ranetion		ranction	Robuit	
	12		1	2.480244 GHz		37 dBm					
		V1	1	660.0 kHz		.03 dB					
	-	1							A		2 05 2022
		Л					l Me			4/4	



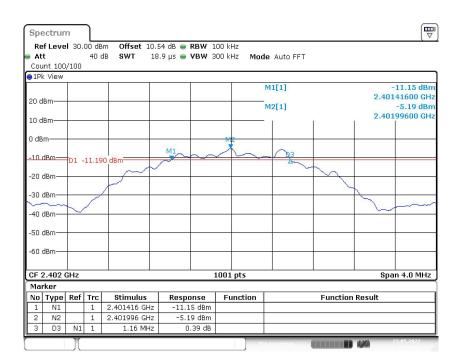
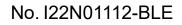


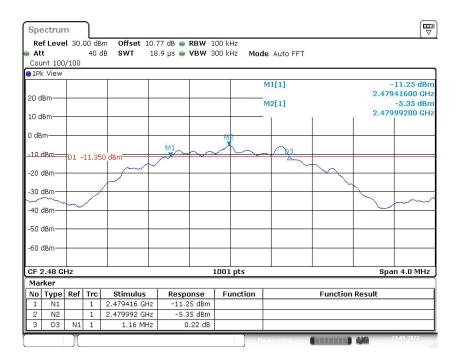
Fig.10 6dB Bandwidth (CH0), LE 2M





Spe	ectrun	n	٦								
	f Leve	I 30.			D.59 dB 😑						
At		400	40 0	ib SWT	18.9 µs 👄	VBW 3	00 kHz	Mode Auto FFT			
	nt 100 View	/100									
0 TPk	(VIEW							M1[1]			10.17 dBm
						ĺ		WILLI			41600 GHz
20 d	Bm—							M2[1]		2.103	-4.20 dBm
10.1						ĺ		to be a set of the set		2,439	99200 GHz
10 d	Bm—					ĺ			1		ĺ
0 dB	m						M2				
0 00					M1 _		X	0			
-10 (dBm	D1 -	10.20	IO dBm		\sim	10				
						ĺ		~	1		
-20 0	dBm—								1		
	JD					Í			~	1	
-30 0			1								~~~
-40 0	dBm—	\sim				<u> </u>					
						Í					
-50 c	dBm										
						ĺ					
-60 (dBm—										
						l I					
CF 2	2.44 GI	Ηz				1	1001 pts	·		Spa	n 4.0 MHz
Mar	ker										
No	Туре	Ref	Trc	Stimulus	Respo	onse	Functio	on	Function	Result	
1	N1		1	2.439416 GH		.7 dBm					
2	N2		1	2.439992 GH		0 dBm					
3	D3	N1	1	1.16 MH	z O	.46 dB					
_	1							Measuring		120	23.05.2022









A.4 Band Edges Compliance

Method of Measurement: See ANSI C63.10-clause 11.13.3.2

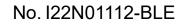
Measurement Limit:

Standard	Limit (dB)
FCC 47 CFR Part 15.247 (d)	> 20

Measurement Result:

Mode	Frequency (MHz)	Test Resi	Conclusion	
LE 1M	2402(CH0)	Fig.13	41.06	Р
	2480(CH39)	Fig.14	41.29	Р
LE 2M	2402(CH0)	Fig.15	31.77	Р
	2480(CH39)	Fig.16	40.78	Р

See below for test graphs. Conclusion: PASS





Spe	ectrun	n	٦							
At	f Leve t int 300		00 dB 30 d			 RBW 1 VBW 3 		de Auto Sv	weep	, ,
	(View	/300								
10 d								M1[1] M2[1]		-4.63 dBm 2.4022540 GHz -48.34 dBm
0 dB								-		2.400000,000,00 GHz
-20		-D1 -	24 63	0 dBm						
	dBm—	D1	24.03							
-40 - 5 01		hourse	Lorth	allentrenered	nur	mun	heren	mlum	M3 www.www.www	mannan M2
-60	dBm									
-70	dBm									
	t 2.35	GHz					691 pts			Stop 2.405 GHz
	rker	- 6	_							
No 1	Type N1	Ref	Trc 1	2.402254 GH		-4.63 dBm	Function	-	Function	Result
2	N2		1	2.402234 GH		48.34 dBm				
3	N3 N4		1	2.39 GH 2.3836377 Gi	z -	48.28 dBm 45.69 dBm				
_][leasuring		23.05.2022



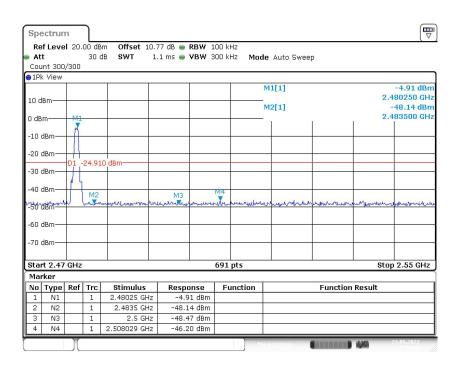
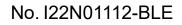


Fig.14 Band Edges (CH39), LE 1M





Spe	ectrur	n	٦							
At	f Leve t int 300		00 dB 30 ().54 dB 😑 RBW 1.1 ms 😑 VBW			le Auto Sv	veep	X
D 1P	View									
10 d	Bm							M1[1]		-5.08 dBr 2.4020150 GH
0 dB	m							M2[1]		-36.02 dBr 2.4000009 GH
-10	dBm									- M
-20	dBm	-01	.25.09	10 dBm						
-30	dBm	01	-20,00							
-40 ·		here	James	mound	mumm	how	miner	1 maria	M3	munun
	dBm									
-70	dBm—									
Sta	t 2.35	GHz				691	pts			Stop 2.405 GHz
Mai										
	Туре	Ref		Stimulus	Response	_	unction		Functior	n Result
1	N1 N2		1	2.402015 GH: 2.4 GH;		1000				
3 4	N3 N4		1	2.39 GH: 2.3999783 GH						
)[<u>н</u>	easuring		23.05.2022



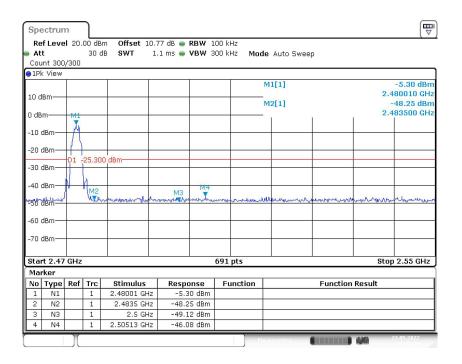


Fig.16 Band Edges (CH39), LE 2M



A.5 Transmitter Spurious Emission - Conducted

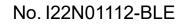
Method of Measurement: See ANSI C63.10-clause 11.11.2&11.11.3

Measurement Limit:

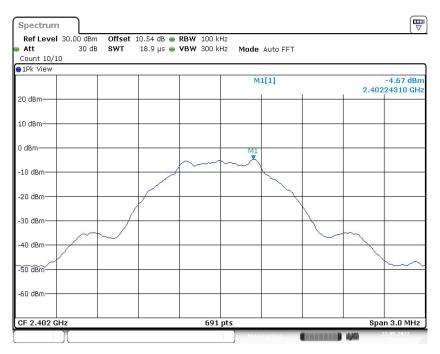
	Standard			Limit (dBm)	
FCC 4	FCC 47 CFR Part 15.247 (d)			20dBm below peak output power in 100 kHz bandwidth		
Measuremen	t Results:					
Mode	Channel	Frequency	Range	Test Results	Conclusion	
		2.402 0	GHz	Fig.17	Р	
	0	30MHz -	1GHz	Fig.18	Р	
		1GHz-26	.5GHz	Fig.19	Р	
		2.440 0	GHz	Fig.20	Р	
LE 1M	19	30MHz -1GHz		Fig.21	Р	
		1GHz-26.5GHz		Fig.22	Р	
	39	2.480 GHz		Fig.23	Р	
		30MHz -1GHz		Fig.24	Р	
		1GHz-26.5GHz		Fig.25	Р	
		2.402 0	GHz	Fig.26	Р	
	0	30MHz -	1GHz	Fig.27	Р	
		1GHz-26	.5GHz	Fig.28	Р	
		2.440 (GHz	Fig.29	Р	
LE 2M	19	30MHz -	1GHz	Fig.30	Р	
		1GHz-26	.5GHz	Fig.31	Р	
		2.480 0	GHz	Fig.32	Р	
	39	30MHz -	1GHz	Fig.33 P		
		1GHz-26	.5GHz	Fig.34	Р	

See below for test graphs.

Conclusion: Pass









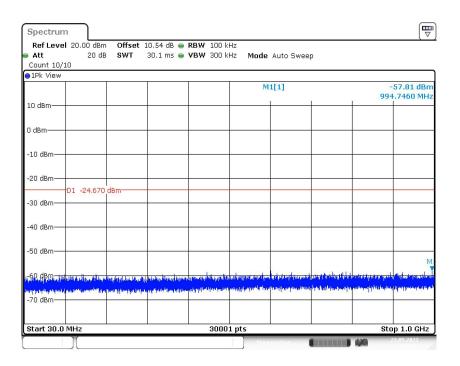
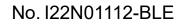
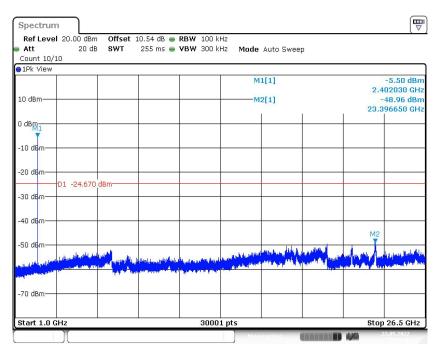


Fig.18 Conducted Spurious Emission (CH0, 30MHz -1GHz), LE 1M



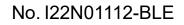






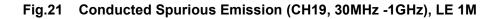








Spectrum					
Ref Level 20.00 dB) dB 😑 RBW 100 k .ms 😑 VBW 300 k			
Count 10/10	ub 3 WI 30.1	IIIS 🖶 ¥ 🖬 😽 300 k	Hz Mode Auto Swee	ih	
●1Pk View					
			M1[1]	6	-58.10 dBm 61.1090 MHz
10 dBm					
0 dBm					
-10 dBm					
-20 dBm					
-30 dBm	10 dBm				
-40 dBm					
-50 dBm					
-SALEBO	international and a state of the	u dant mela esta la tra constata e à stano a tel d	M1	line in first with the state of the state of the	a alternate windshipter
and the state of t	And a second	and produced in the state of th	anna ghana bala ai bar gli gana agair (1,5-17).	a dharaan fa dar ya furfaa maa ah ya ah dhar	ng nang Kabupatén di
-70 dBm					
Start 30.0 MHz		3000	1 pts	5	top 1.0 GHz
			Measuring	4/4	23.05.2022



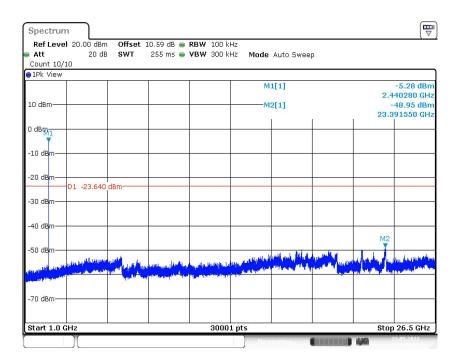


Fig.22 Conducted Spurious Emission (CH19, 1GHz-26.5GHz), LE 1M



