



TESTREPORT

Applicant Name : Address :

Report Number:

FCC ID:

Advanced Card Systems Limited Units 4108 - 4110, 41st Floor, Manhattan Place, 23 Wang Tai Road, Kowloon Bay, Hong Kong SZNS220526-23053E-RF-00 V5MACR122U-A

Test Standard (s)

FCC PART 15.225

Sample Description

Product Type:	Contactless Smart Card Reader
Model No.:	ACR122U
Multiple Model(s) No.:	N/A
Trade Mark:	acs
Date Received:	2022/05/26
Report Date:	2022/06/23

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared andChecked By:

Oger

Roger EMC Engineer

Approved By:

R6hart li

Robert Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* ".

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Version 3: 2021-11-09

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FCC Part 15.225

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GENERALINFORMATION

Frequency Range	13.56 MHz
E-field Strength	51.12dBuV/m@3m
Modulation Technique	ASK
Voltage Range	DC 5V from USB port
Sample serial number	SZNS220526-23053E-RF-S1 (Assigned by ATC)
Sample/EUT Status	Good condition
	L.V.: Low Voltage 102V _{AC}
Normal/Extreme Condition	N.V.: Normal Voltage 120V _{AC}
	H.V.: High Voltage 138V _{AC}

Product Description for Equipment under Test (EUT)

Objective

This Type approval report is in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The objective is to determine the compliance of the EUT with FCC rules, section 15.203, 15.205, 15.207, 15.209 and 15.225.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Para	meter	Uncertainty		
Occupied Char	nnel Bandwidth	5%		
RF Fre	equency	$0.082*10^{-7}$		
RF output pov	wer, conducted	0.73dB		
Unwanted Emission, conducted		1.6dB		
AC Power Lines Conducted Emissions		2.72dB		
	9kHz - 30MHz	2.66dB		
- · ·	30MHz - 1GHz	4.28dB		
Emissions, Radiated	1GHz - 18GHz	4.98dB		
Radiated	18GHz -26.5GHz	5.06dB		
	26.5GHz -40GHz	4.72dB		
Temperature		1 °C		
Humidity		6%		
Supply voltages		0.4%		

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

No Exercise Software was used.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

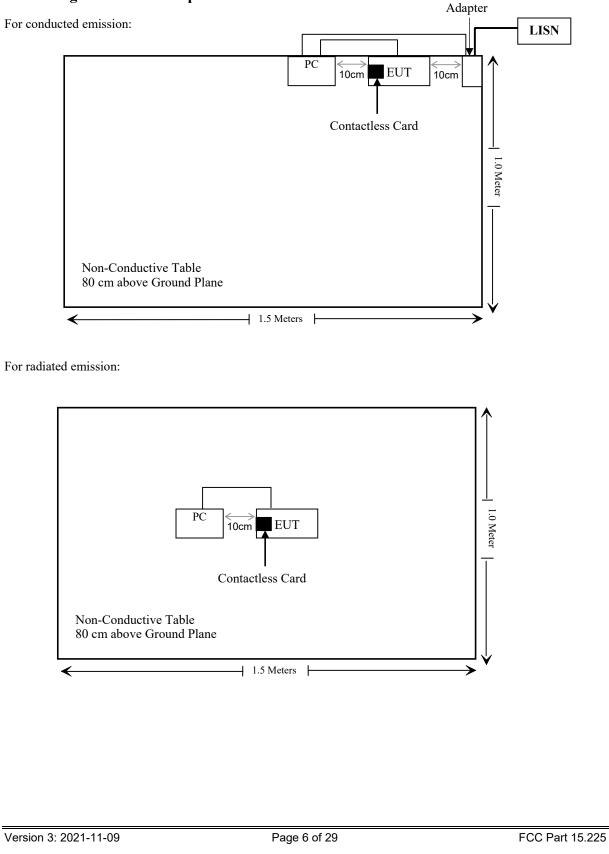
Manufacturer Description		Model	Serial Number	
DELL	РС	Latitude	11429208685	
DELL Adapter		DA130PE1-00	CN-0JU012-68219-18B-JE YY-A04	
Unknown	Contactless Card	Unknown	Unknown	

External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable AC Cable	1.5	Adapter	LISN
Un-shielding Un-Detachable DC Cable	1.5	Adapter	PC
Un-shielding Un-Detachable USB Cable	1.0	EUT	PC

Report No.: SZNS220526-23053E-RF-00

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	
§15.203	Antenna Requirement	Compliant	
§15.207	AC Line Conducted Emission	Compliant	
§15.225 §15.209§15.205	Radiated Emission Test	Compliant	
§15.225(e)	Frequency Stability	Compliant	
§15.215(c)	20dB Emission Bandwidth	Compliant	

TEST EQUIPMENT LIST

Manufacturer Description		Model	Serial Number	Calibration Date	Calibration Due Date			
Conducted Emissions Test								
Rohde& Schwarz	Rohde& SchwarzEMI Test ReceiverESCI1007842021/12/13							
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12			
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12			
Conducted Emission Tes	st Software: e3 19821b (V	(9)						
	Radia	ated Emission Te	est					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12			
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08			
SCHWARZBECK	LOOP ANTENNA	FMZB1516	1516131	2021/12/22	2024/12/21			
Schwarzbeck Bilog Antenna VULB9163		9163-323	2021/07/06	2024/07/05				
Radiated Emission Test	Software: e3 19821b (V9))						
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13			
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13			
Unknown	Unknown RF Coaxial Cable		N800	2021/12/14	2022/12/13			
	Frequ	ency Stability T	est					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12			
SONOMA INSTRUMENT Amplifier		310 N	186131	2021/11/09	2022/11/08			
SCHWARZBECK	LOOP ANTENNA	FMZB1516	1516131	2021/12/22	2024/12/21			
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13			
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13			
Gongwen	HSD-500	109	2021/10/14	2022/10/13				

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connected Construction

The EUT has one internal antenna arrangement for NFC which was permanently attached; fulfill the requirement of this section. Please refer to the EUT photos.

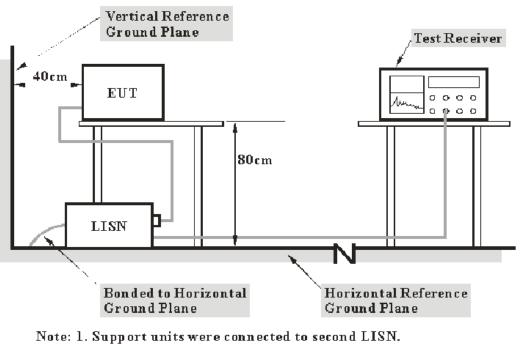
Result: Compliant.

FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



Support units were connected to second LISN.
 Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W		
150 kHz – 30MHz	9 kHz		

Test Procedure

During the conducted emission test, the adapter of Host was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by addingLISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss

The "**Over Limit**" column of the following data tables indicates the degree of compliance with the applicablelimit. For example, an over limit of -7dB means the emission is 7 dB below the limit. The equation for margineal culation is as follows:

Over limit = Result – Limit Result = Reading + Factor

Test Data

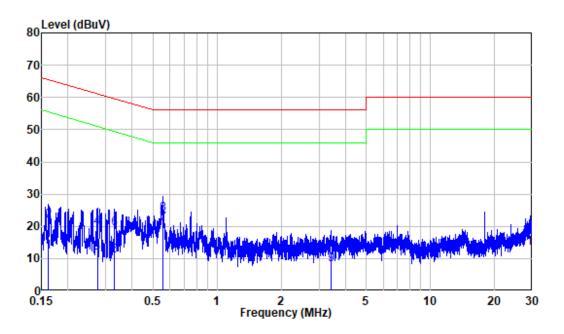
Environmental Conditions

Temperature:	23°C	
Relative Humidity:	54%	
ATM Pressure:	101.0 kPa	

The testing was performed by Jason Liu on 2022-06-08.

Test mode: Transmitting

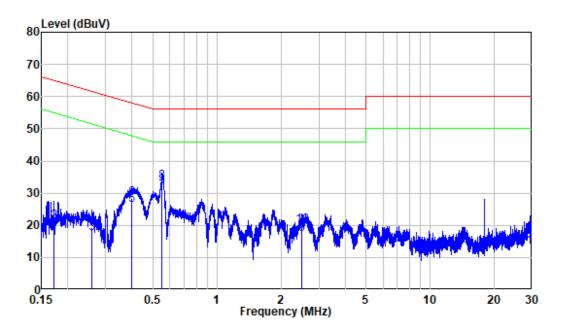
AC 120 V/60 Hz, Line:



Site :	Shielding Room			
Condition:	Line			
Mode :	NFC 13.56MHz			
Model :	ACR122U			
Power :	AC 120V 60Hz			

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.162	9.80	2.42	12.22	55.35	-43.13	Average
2	0.162	9.80	11.94	21.74	65.35	-43.61	QP
3	0.274	9.80	1.92	11.72	50.99	-39.27	Average
4	0.274	9.80	9.87	19.67	60.99	-41.32	QP
5	0.329	9.80	1.10	10.90	49.46	-38.56	Average
6	0.329	9.80	9.44	19.24	59.46	-40.22	QP
7	0.555	9.81	10.95	20.76	46.00	-25.24	Average
8	0.555	9.81	14.00	23.81	56.00	-32.19	QP
9	3.431	9.83	-1.82	8.01	46.00	-37.99	Average
10	3.431	9.83	1.96	11.79	56.00	-44.21	QP
11	29.901	10.10	3.30	13.40	50.00	-36.60	Average
12	29.901	10.10	7.79	17.89	60.00	-42.11	QP

AC 120V/ 60 Hz, Neutral:



Site :	Shielding Room
Condition:	Neutral
Mode :	NFC 13.56MHz
Model :	ACR122U
Power :	AC 120V 60Hz

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.172	9.80	7.15	16.95	54.86	-37.91	Average
2	0.172	9.80	11.42	21.22	64.86	-43.64	QP
3	0.258	9.80	7.71	17.51	51.51	-34.00	Average
4	0.258	9.80	9.46	19.26	61.51	-42.25	QP
5	0.397	9.80	16.38	26.18	47.92	-21.74	Average
6	0.397	9.80	18.64	28.44	57.92	-29.48	QP
7	0.553	9.81	20.83	30.64	46.00	-15.36	Average
8	0.553	9.81	23.68	33.49	56.00	-22.51	QP
9	2.497	9.82	7.32	17.14	46.00	-28.86	Average
10	2.497	9.82	10.00	19.82	56.00	-36.18	QP
11	29.901	10.20	3.01	13.21	50.00	-36.79	Average
12	29.901	10.20	7.28	17.48	60.00	-42.52	QP -

FCC§15.225, §15.205& §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.225

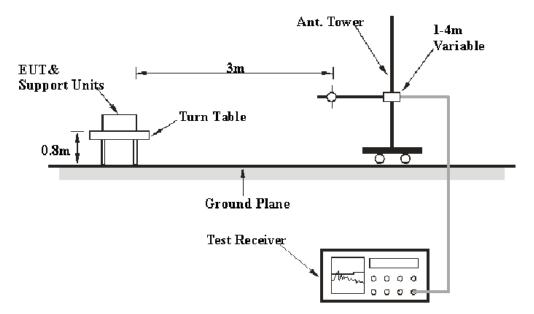
(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

EUT Setup



Note: Antenna is set up at 1m during test for below 30MHz.

The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

EMI Test Receiver Setup

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	300 Hz	1kHz	/	QP
150 kHz –30MHz	10 kHz	30 kHz	/	QP
30MHz - 1000 MHz	100 kHz	300 kHz	/	QP

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Factor = Antenna Factor + Cable Loss- Amplifier Gain Corrected Amplitude= Meter Reading + Corrected Factor

The "**Over Limit or Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over Limit / Margin of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Over Limit / Margin = Level / Result – Limit Level / Result = Reading level + Factor

Test Data

Environmental Conditions

Temperature:	29°C
Relative Humidity:	62 %
ATM Pressure:	101.0 kPa

The testing was performed by Zeki Ma on 2022-06-08.

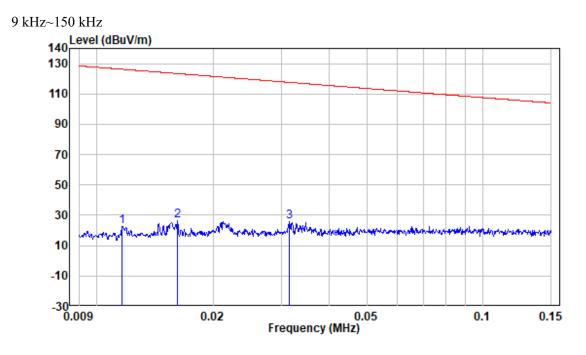
Test mode: Transmitting(*Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded*)

Note: when the result of Peak below the limit of QP more than 6dB, just the peak value was record.

1) Spurious Emissions (9 kHz~30 MHz):

Part 15 Section 15.31(f)(2) (9kHz-30MHz) Limit @ 3m=Limit @ 300m-40*log(3(m)/300(m)) Limit @ 3m=Limit @ 30m-40*log(3(m)/30(m))

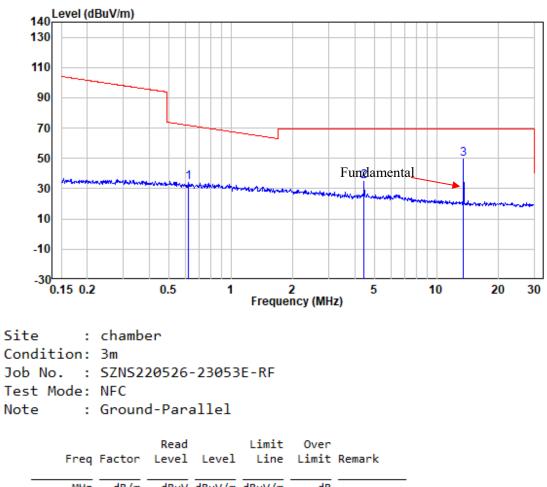
Ground-parallel



Site :	chamber
Condition:	Зm
Job No. :	SZNS220526-23053E-RF
Test Mode:	NFC
Note :	Ground-Parallel

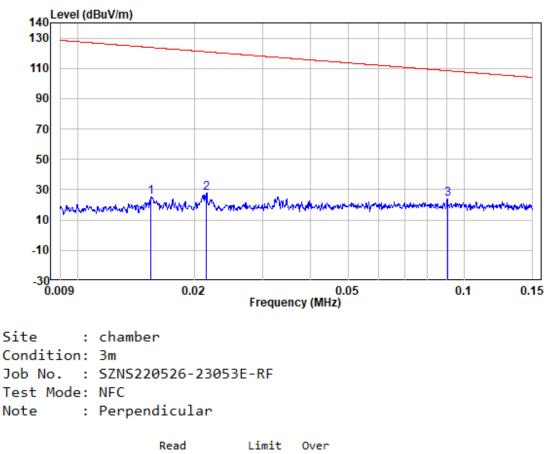
	Freq	Factor		Level			Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	-11.41	33.95	22.54	126.27	-103.73	Peak
2	0.016	-11.57	37.77	26.20	123.41	-97.21	Peak
3	0.032	-11.63	37.19	25.56	117.62	-92.06	Peak

$150 \text{ kHz}{\sim}30 \text{ MHz}$



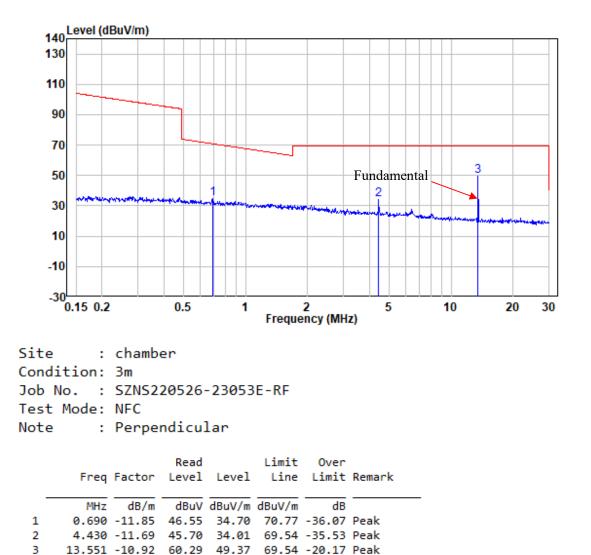
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.621	-11.74	46.16	34.42	71.71	-37.29	Peak
2	4.430	-11.69	46.27	34.58	69.54	-34.96	Peak
3	13.551	-10.92	60.59	49.67	69.54	-19.87	Peak

Perpendicular 9 kHz~150 kHz



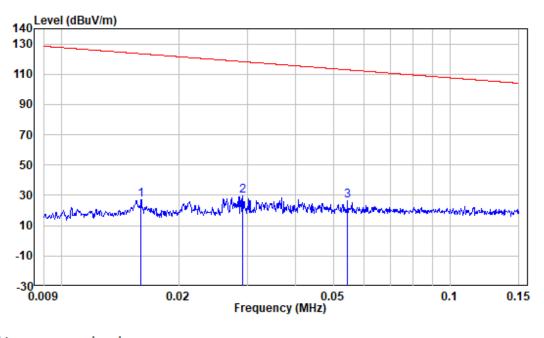
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.015	-11.53	36.94	25.41	123.80	-98.39	Peak
2	0.022	-11.68	39.37	27.69	120.94	-93.25	Peak
3	0.090	-11.57	35.45	23.88	108.48	-84.60	Peak

$150 \text{ kHz} \sim 30 \text{ MHz}$



Parallel

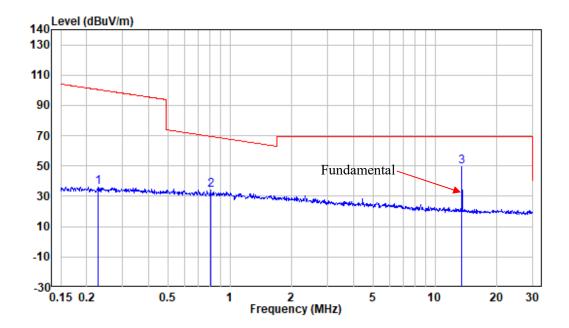
9 kHz~150 kHz





	Freq	Factor	Read Level			Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.016	-11.56	38.62	27.06	123.51	-96.45	Peak
2	0.029	-11.64	41.13	29.49	118.31	-88.82	Peak
3	0.054	-11.54	37.90	26.36	112.90	-86.54	Peak

$150 \ kHz{\sim}30 \ MHz$

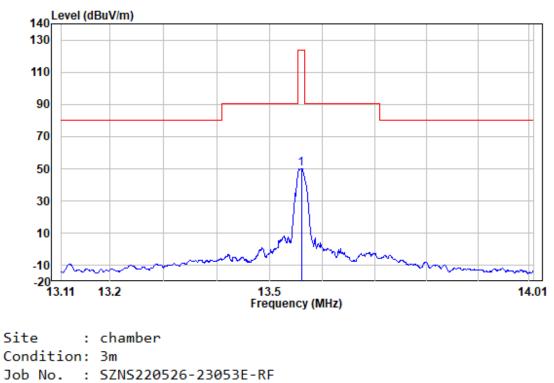


Site :	chamber
Condition:	Зm
Job No. :	SZNS220526-23053E-RF
Test Mode:	NFC
Note :	Parallel

	Freq	Factor	Read Level		Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.228	-11.94	48.03	36.09	100.45	-64.36	Peak
2	0.804	-11.84	45.96	34.12	69.40	-35.28	Peak
3	13.551	-10.92	60.62	49.70	69.54	-19.84	Peak

2) Emission Mask & Fundamental:

Ground-parallel

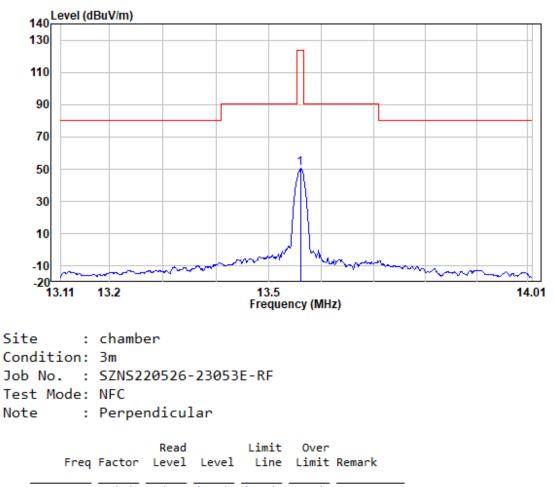


Test Mode: NFC

Note	:	Ground-paralle	L
NOCC		di ouna parattes	

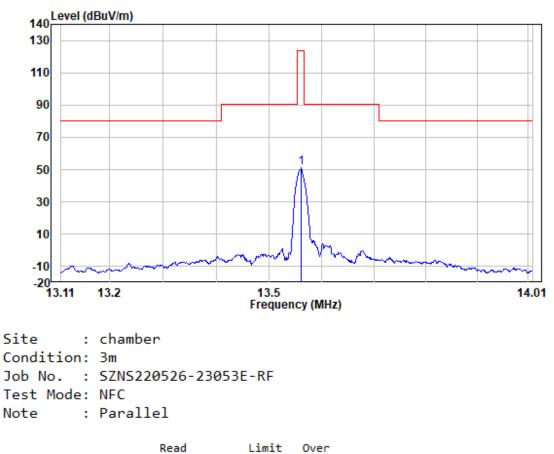
	Freq	Factor		Limit Line	 Remark	
1		dB/m -10.92				

Perpendicular:



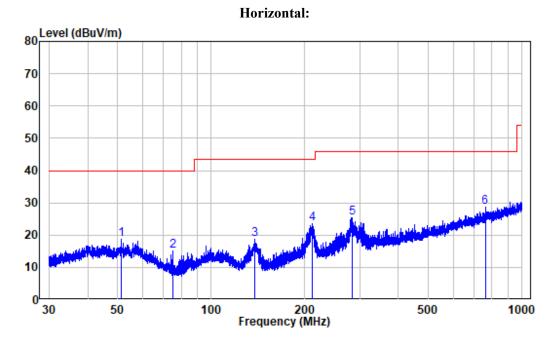
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	13.560	-10.92	61.39	50.47	124.00	-73.53

Parallel:



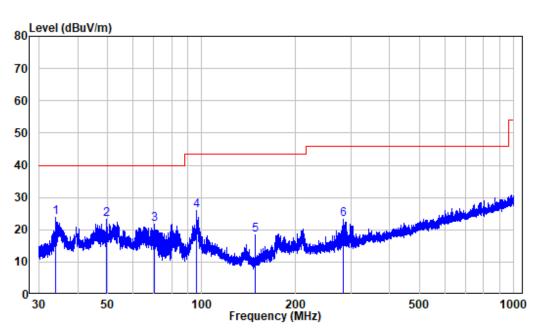
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.561	-10.92	62.04	51.12	124.00	-72.88	

3) Spurious Emissions (30 MHz~1GHz):



Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZNS220526-23053E-RF
Test Mode:	NFC

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.391	-9.95	28.66	18.71	40.00	-21.29	Peak
2	74.985	-16.23	31.26	15.03	40.00	-24.97	Peak
3	137.782	-15.33	33.92	18.59	43.50	-24.91	Peak
4	211.249	-11.81	35.27	23.46	43.50	-20.04	Peak
5	283.855	-9.47	34.85	25.38	46.00	-20.62	Peak
6	761.371	-0.51	29.09	28.58	46.00	-17.42	Peak





Site : chamber Condition: 3m VERTICAL Job No. : SZNS220526-23053E-RF Test Mode: NFC

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.037	-11.84	35.65	23.81	40.00	-16.19	Peak
2	49.359	-9.94	33.05	23.11	40.00	-16.89	Peak
3	70.738	-15.09	36.84	21.75	40.00	-18.25	Peak
4	96.225	-12.29	38.11	25.82	43.50	-17.68	Peak
5	148.376	-15.36	33.82	18.46	43.50	-25.04	Peak
6	283.855	-9.47	32.69	23.22	46.00	-22.78	Peak

FCC§15.225(e) - FREQUENCY STABILITY

Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to PC, which was connected to external AC power supply, and inductive antenna of the equipment was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

Test Data

Environmental Conditions

Temperature:	26.7°C
Relative Humidity:	57%
ATM Pressure:	101.0 kPa

The testing was performed by Zeki Ma on 2022-06-23.

Test Mode: Transmitting

Test Result: Pass

Voltage Supply (V _{AC})	Temperature (℃)	Measured Frequency (MHz)	Frequency Error (%)	Part 15.225 Limit (%)
	-20	13.5604514	0.003329	±0.01
	-10	13.5604466	0.003294	±0.01
	0	13.5604514	0.003329	±0.01
N.V.	10	13.5604440	0.003274	±0.01
IN. V.	20	13.5604504	0.003322	±0.01
	30	13.5604482	0.003306	±0.01
	40	13.5604494	0.003314	±0.01
	50	13.5604438	0.003273	±0.01
L.V.	20	13.5604533	0.003343	±0.01
H.V.	20	13.5604479	0.003303	±0.01

Note: the extreme voltage was declared by the applicant.

Version 3: 2021-11-09

FCC§15.215(c) -20dBEMISSION BANDWIDTH

Requirement

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

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Test Data

Environmental Conditions

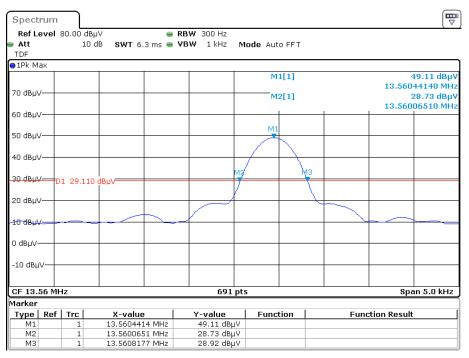
Temperature:	26.7°C
Relative Humidity:	57%
ATM Pressure:	101.0 kPa

The testing was performed by Zeki Ma on 2022-06-23.

Test Mode: Transmitting

Test Result: Pass

Test Frequency	20dB Bandwidth
(MHz)	(kHz)
13.56	0.753



20 dB Emission Bandwidth

Date: 23.JUN.2022 11:04:55

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