



TEST REPORT

Applicant:Botslab,Inc.Address:919 North Market Street, Suite 950, Wilmington, New Castle,
Delaware, USAFCC ID:2A22Z-R811Product Name:Botslab Video Doorbell 2 ProModel:R811, R811 Pro, R811 Max, R812, R812 Pro, R812
Max, R813, R813 Pro, R813 MaxStandard(s):47 CFR Part 15, Subpart C(15.249)
ANSI C63.10-2013

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number:	CR230740716-00
Date Of Issue:	2023/12/8
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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230740716-00	Original Report	2023/12/8

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Botslab Video Doorbell 2 Pro	
EUT Model:	R811	
Multiple Models:	R811 Pro, R811 Max, R812, R812 Pro, R812 Max, R813, R813 Pro, R813 Max	
Operation Frequency:	24050-24240 MHz	
Modulation Type:	FMCW	
Number of Chains:	1TX, 2RX	
Rated Input Voltage:	DC 5V from Adapter or DC 3.6V from Built-in Battery or AC 8-24V, Typical: AC 12V	
Serial Number:	289J-1	
EUT Received Date:	2023/7/14	
EUT Received Status:	Good	
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.		

Operation Frequency Detail:

Sweep Start Frequency (MHz)	Sweep Stop Frequency (MHz)
2400	24250
Per section 15.31(m), the below frequencies were perform	ned the test as below:
Test Frequency	Frequency (MHz)
Lowest	24050
Middle	24150
Highest	24240

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chip Antenna	50	24~24.25GHz	2dBi
The Method of \$15,002 Compliance			

The Method of §15.203 Compliance

Antenna was permanently attached to the unit.

Antenna use a unique type of connector to attach to the EUT.

Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

No.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer. Transmitting
Equipment Modifications:	No
EUT Exercise Software:	No
Engineering Mode was provided setting.	d by manufacturer \blacktriangle . The maximum power was configured default

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Jian Aohai	Adapter	A8-050200U-US3	AD220930002

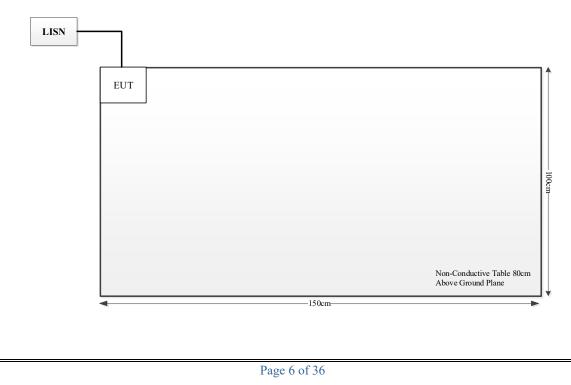
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	No	No	0.8	Adapter	EUT
Detachable Mains Power Cable	No	No	0.8	EUT	LISN

1.2.4 Block Diagram of Test Setup

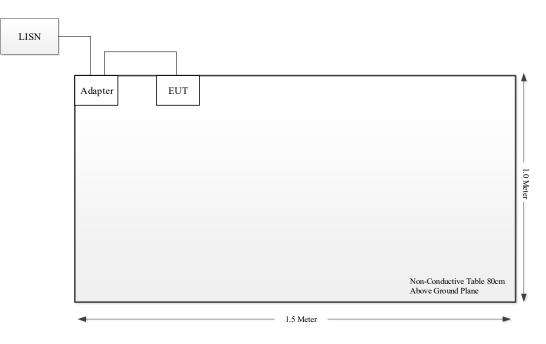
AC Line Conducted Emissions:

1) AC 12V Power supply mode:



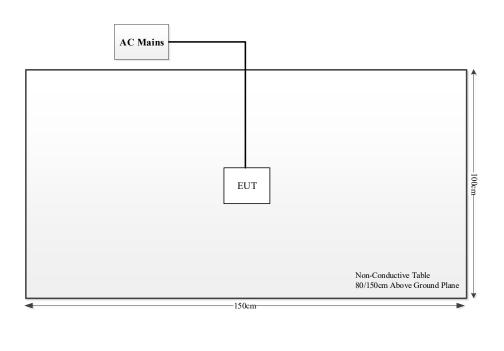
Report No.: CR230740716-00

2) AC/DC Adapter Power Supply mode:



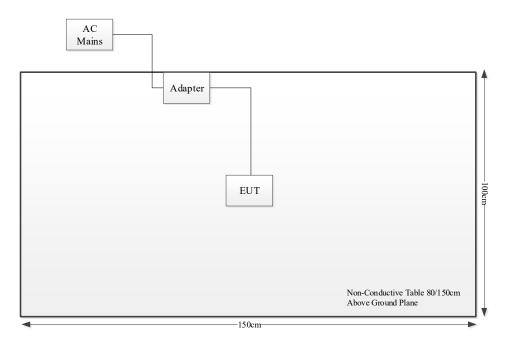
Spurious Emissions:

1) AC 12V Power supply mode:



Report No.: CR230740716-00

2) AC/DC Adapter Power Supply mode:



1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Temperature	± 1 °C
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
§15.205, §15.209, §15.249	Radiated Emissions	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

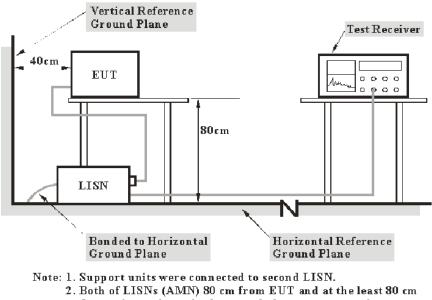
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 $\mu H/50$ ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



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 limits.

The spacing between the peripherals was 10 cm.

3.1.3 EMI Test Receiver Setup

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

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

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

3.1.4 Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiated Emissions

3.2.1 Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

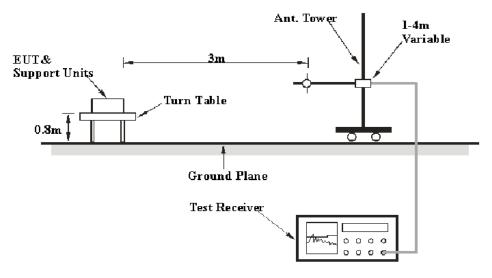
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

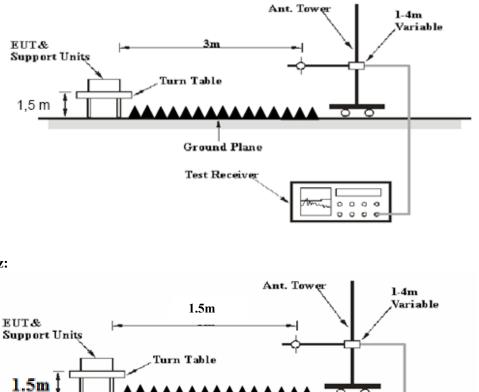
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

3.2.2 EUT Setup

Below 1GHz:



1-26.5 GHz:



0 0

0000

26.5-40 GHz:

Above 40GHz:

The antenna is scanned around the entire perimeter surface of the EUT, in both horizontal and vertical polarizations, at the distance of 1.0 m from 40 GHz to 90 GHz, and 0.5 m from 90 GHz to 100 GHz.

Ground Plane

Test Receiver

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.249 limits.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 100 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	РК
Above I OHZ	1MHz	10 Hz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

According to C63.10, the 26.5-40GHz test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m.

Distance extrapolation factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB.

The 40-90GHz test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1m.

Distance extrapolation factor =20 log (specific distance [3m]/test distance [1m]) dB= 9.54 dB.

The 40-90GHz test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 0.5m.

Distance extrapolation factor =20 log (specific distance [3m]/test distance [0.5m]) dB=15.56 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 30MHz-26.5GHz: Result = Reading + Factor

For 26.5GHz-100GHz Result = Reading + Factor-Distance extrapolation Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

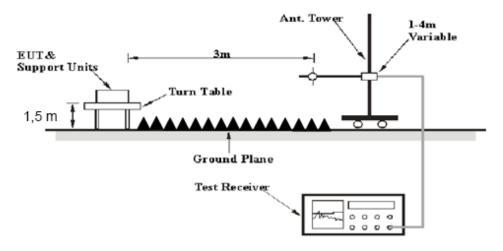
3.3 20 dB Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.215

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.

3.3.2 EUT Setup



3.3.3Test Procedure

- 1. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 2. Repeat above procedures until all frequencies measured were complete.

3.4 Antenna Requirement

3.4.1 Applicable Standard

FCC §15.203

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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

3.4.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	289J-1	Test Date:	2023/7/19~2023/12/7
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

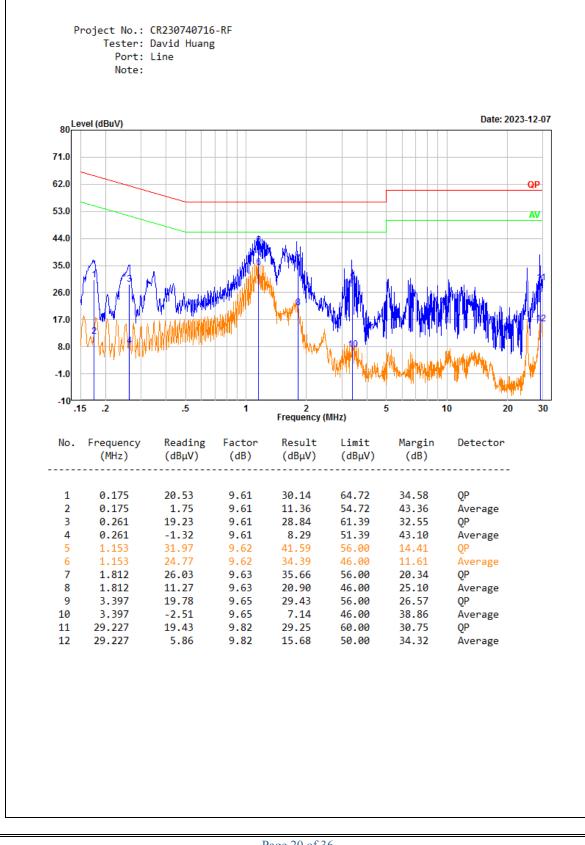
Environmental Conditions:							
Temperature: (℃)	25.9~26.2	Relative Humidity: (%)	42~53	ATM Pressure: (kPa)	100.7~101.5		

Test Equipment List and Details:

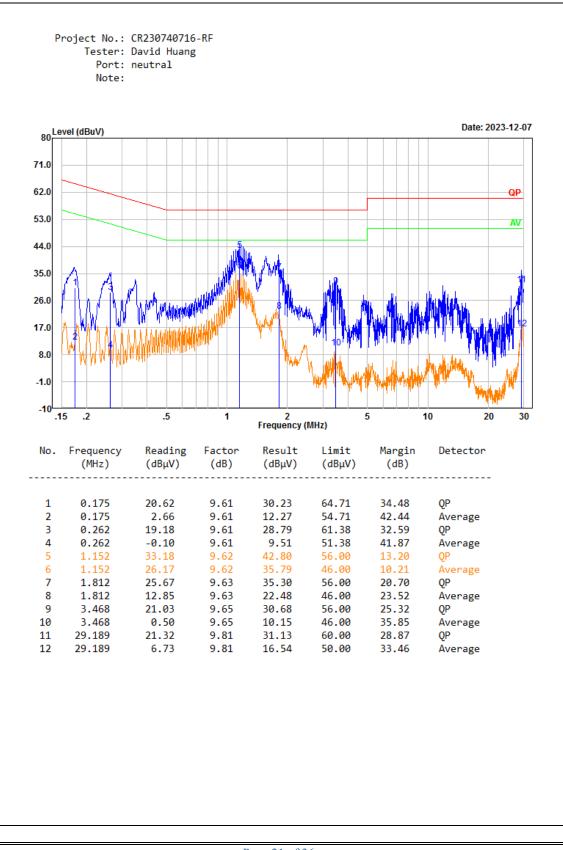
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICROCOAN	CRO-COAX Coaxial Cable UTIFLEX C-0200-01	2022/8/7	2023/8/6		
MICKO-COAA		UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

1) AC 12V Power supply mode:

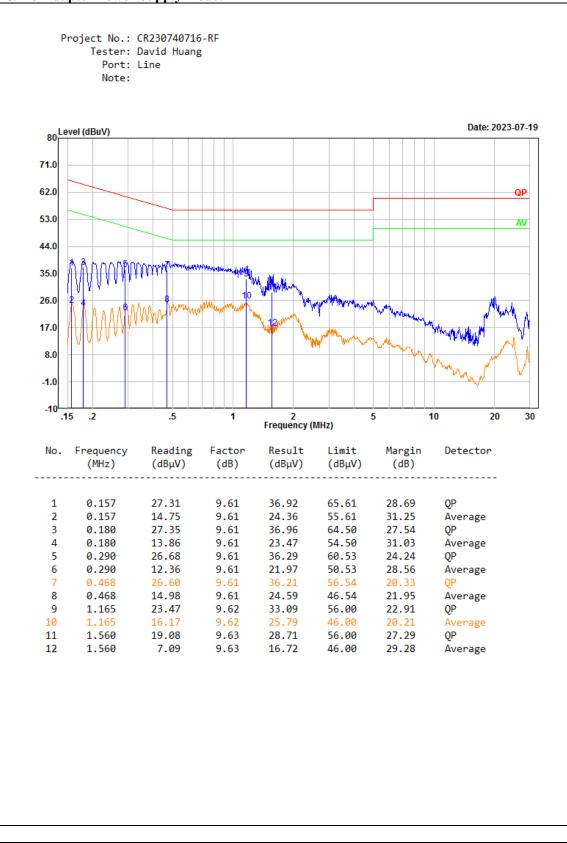


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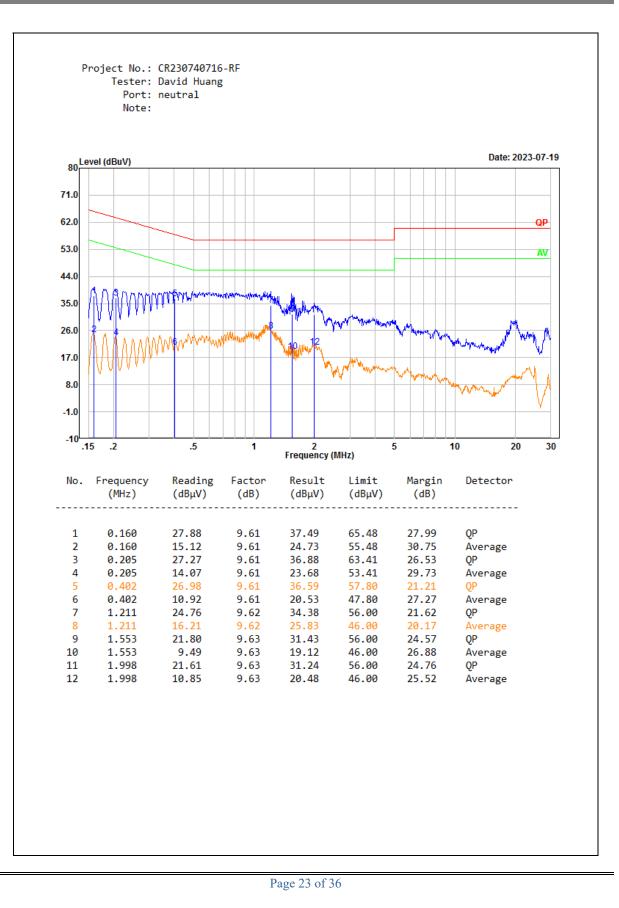


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4.2 Radiation Spurious Emissions

Serial Number:	289J-1	Test Date:	2023/7/19~2023/12/7
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Tao Zhu, coco Tian	Test Result:	Pass

Environmental Conditions:						
Temperature: (℃)	25.9~29	Relative Humidity: (%)	48~63	ATM Pressure: (kPa)	99.8~101.5	

Test Equipment List and Details:

Manufacturer Description		Model	Serial Number	Calibration Date	Calibration Due Date
		Below 1GHz			
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
		Above 1GHz			
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2022/8/7	2023/8/6
				2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-	235780-001	2022/8/7	2023/8/6
	Couxier Cubie	300300	255700 001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
	-		5707001147	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/9/16	2023/9/15
Quinistai	Freamphiller	QL W-18403330-JO	13904001003	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-	235772-001	2022/8/7	2023/8/6
MICKO-COAA	Coaxiai Cable	200200	255772-001	2023/8/6	2024/8/5
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
OML	Harmonic Mixer	WR19/M19HWD	U60314-1	2023/2/16	2026/2/15
OML	Horn Antenna	M19RH	11648-03	2023/2/27	2026/2/26
OML	Harmonic Mixer	WR12/M12HWD	E60119-1	2023/2/16	2026/2/15
OML	Horn Antenna	M12RH	E60119-2	2023/2/27	2026/2/26
OML	Harmonic Mixer	WR08/M08HWD	F60315-1	2023/2/16	2026/2/15
OML	Horn Antenna	M08RH	F60315-2	2023/2/27	2026/2/26

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

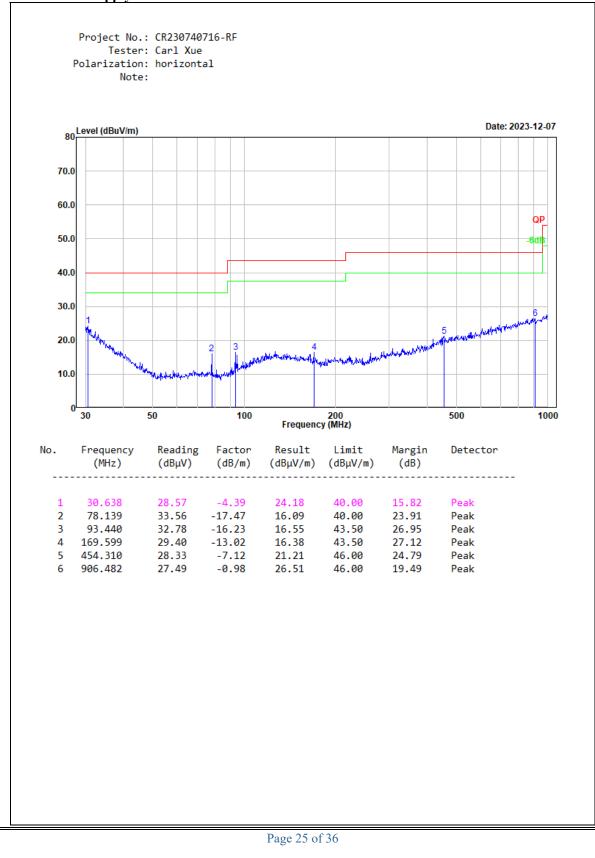
Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X, Y, Z Axis according to C63.10 Figure 8, the worst orientation was photographed and it's data was recorded.

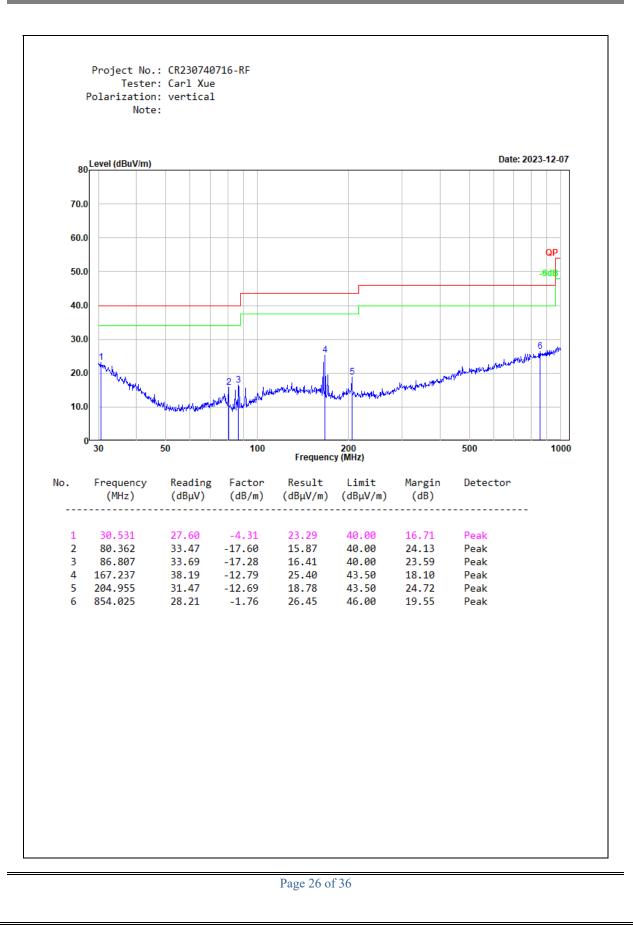
Report No.: CR230740716-00

1) 30MHz-1GHz

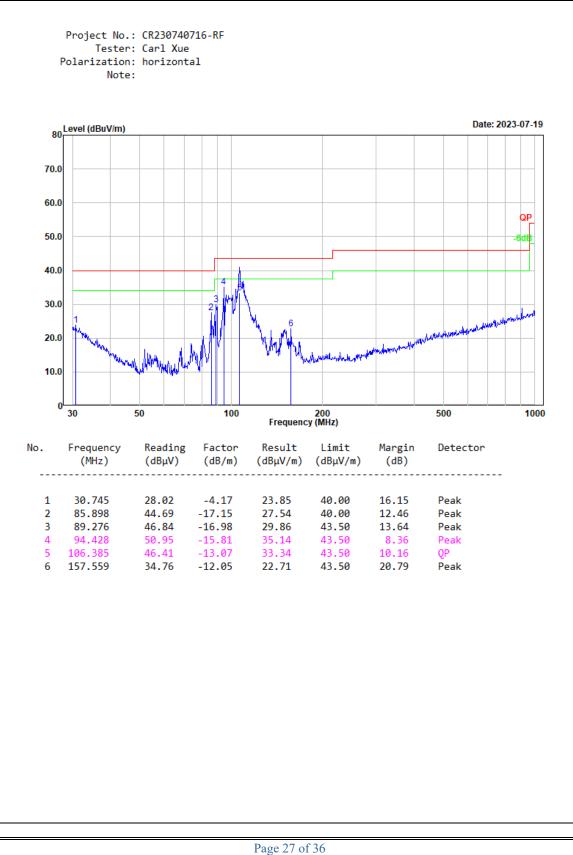
ÁC 12V Power supply mode:



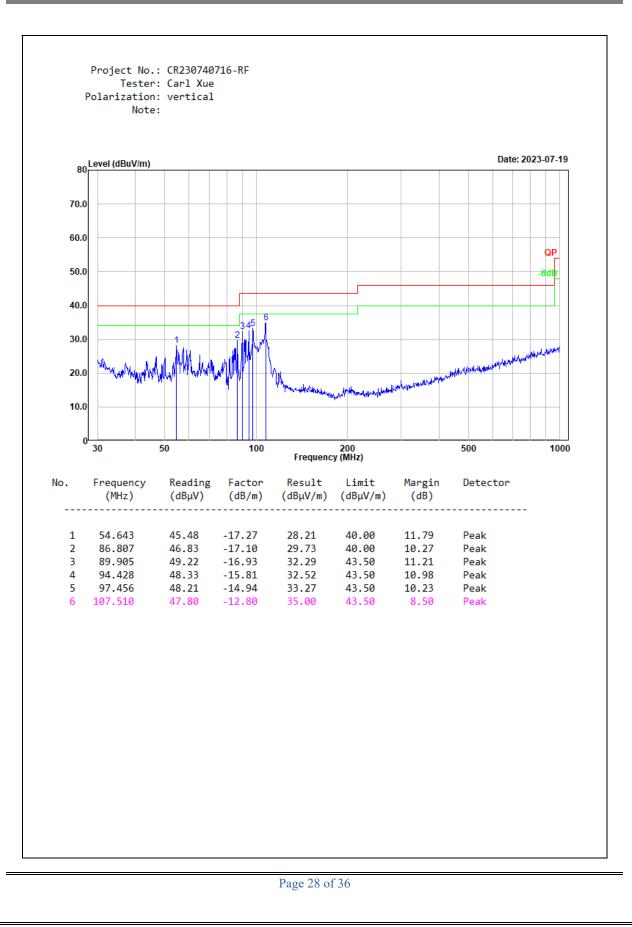
Report No.: CR230740716-00



AC/DC Adapter Power Supply mode:



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2) 1GHz-40GHz:

Encarronation	Receiver		Delar	Factor	Desult	T imit	
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		,	Test Freque	ency: 24050 M	Hz		
24050.000	92.12	PK	Н	5.58	97.70	127.96	30.26
24050.000	80.16	AV	Н	5.58	85.74	107.96	22.22
24050.000	75.69	PK	V	5.58	81.27	127.96	46.69
24050.000	63.89	AV	V	5.58	69.47	107.96	38.49
24000.000	51.46	PK	Н	5.52	56.98	74.00	17.02
24000.000	38.65	AV	Н	5.52	44.17	54.00	9.83
17181.50	32.08	PK	Н	26.49	58.57	74.00	15.43
17181.50	19.11	AV	Н	26.49	45.60	54.00	8.40
23396.40	52.31	PK	Н	6.04	58.35	74.00	15.65
23396.40	39.14	AV	Н	6.04	45.18	54.00	8.82
39678.60	52.87	PK	Н	15.44	62.29	74.00	11.71
39678.60	39.91	AV	Н	15.44	49.33	54.00	4.67
		r	Test Freque	ency: 24150 M	Hz		
24150.000	91.87	PK	Н	5.69	97.56	127.96	30.40
24150.000	80.02	AV	Н	5.69	85.71	107.96	22.25
24150.000	75.28	PK	V	5.69	80.97	127.96	46.99
24150.000	63.91	AV	V	5.69	69.60	107.96	38.36
17182.80	32.08	PK	Н	26.50	58.58	74.00	15.42
17182.80	19.46	AV	Н	26.50	45.96	54.00	8.04
23402.00	52.13	PK	Н	6.04	58.17	74.00	15.83
23402.00	39.35	AV	Н	6.04	45.39	54.00	8.61
39680.50	52.49	PK	Н	15.43	61.90	74.00	12.10
39680.50	39.87	AV	Н	15.43	49.28	54.00	4.72
	-		Test Freque	ency: 24240 M	Hz		
24240.000	92.32	PK	Н	5.79	98.11	127.96	29.85
24240.000	80.37	AV	Н	5.79	86.16	107.96	21.80
24240.000	75.89	PK	V	5.79	81.68	127.96	46.28
24240.000	64.75	AV	V	5.79	70.54	107.96	37.42
24250.000	51.46	PK	Н	5.80	57.26	74.00	16.74
24250.000	38.57	AV	Н	5.80	44.37	54.00	9.63
17184.60	32.36	PK	Н	26.50	58.86	74.00	15.14
17184.60	19.27	AV	Н	26.50	45.77	54.00	8.23
23414.30	52.36	PK	Н	6.03	58.39	74.00	15.61
23414.30	39.41	AV	Н	6.03	45.44	54.00	8.56
39681.00	53.07	PK	Н	15.43	62.48	74.00	11.52
39681.00	40.11	AV	Н	15.43	49.52	54.00	4.48

Note:

1. All possible modes of operation were investigated, and testing at two nominal voltages of AC12V and DC 5V, only the worst-case (AC/DC Adapter Power Supply mode was worst) emissions reported.

2. Result = Reading + Factor- Distance extrapolation Factor

For 1-26.5GHz: Distance extrapolation Factor =20 log (specific distance [3m]/test distance [3m]) dB= 0 dB For 26.5-40GHz: Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

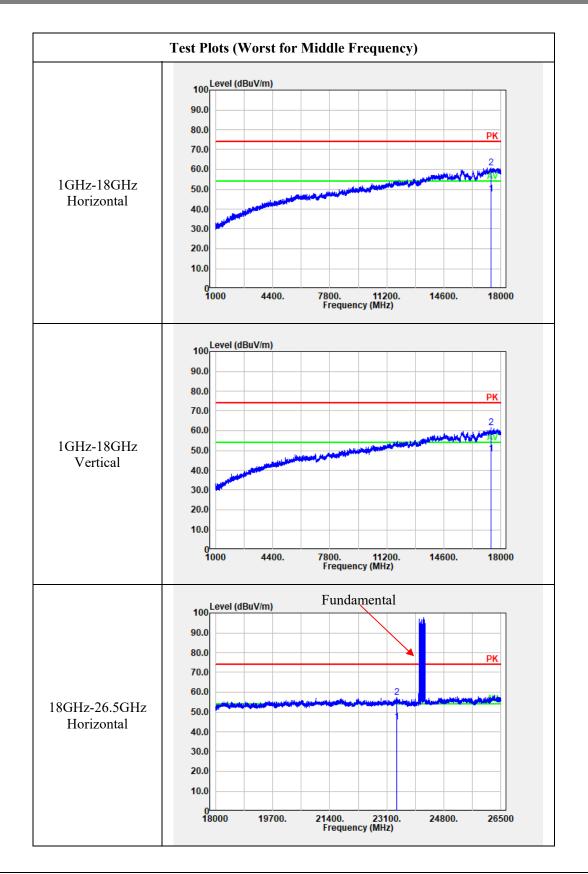
3) 40GHz-100GHz:

F	Rec	eiver	Deles	Easter	Decult	T :	M
Frequency (GHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Test Freque	ency: 24.05 G	Hz		
48.100	37.55	PK	Н	40.05	68.06	87.96	19.90
48.100	26.51	AV	Н	40.05	57.02	67.96	10.94
48.100	37.52	PK	V	40.05	68.03	87.96	19.93
48.100	25.68	AV	V	40.05	56.19	67.96	11.77
72.150	38.47	PK	Н	43.81	72.74	87.96	15.22
72.150	26.63	AV	Н	43.81	60.90	67.96	7.06
72.150	45.70	PK	V	43.81	79.97	87.96	7.99
72.150	22.72	AV	V	43.81	56.99	67.96	10.97
96.200	36.73	PK	Н	45.87	67.04	87.96	20.92
96.200	25.82	AV	Н	45.87	56.13	67.96	11.83
96.200	37.69	PK	V	45.87	68.00	87.96	19.96
96.200	25.52	AV	V	45.87	55.83	67.96	12.13
			Test Freque	ency: 24.15 G	Hz		
48.300	37.80	PK	Н	40.08	68.34	87.96	19.62
48.300	26.89	AV	Н	40.08	57.43	67.96	10.53
48.300	37.84	PK	V	40.08	68.38	87.96	19.58
48.300	26.00	AV	V	40.08	56.54	67.96	11.42
72.450	38.79	PK	Н	43.85	73.10	87.96	14.86
72.450	26.95	AV	Н	43.85	61.26	67.96	6.70
72.450	46.12	PK	V	43.85	80.43	87.96	7.53
72.450	23.32	AV	V	43.85	57.63	67.96	10.33
96.600	37.11	PK	Н	45.92	67.47	87.96	20.50
96.600	26.10	AV	Н	45.92	56.46	67.96	11.50
96.600	38.21	PK	V	45.92	68.57	87.96	19.39
96.600	25.89	AV	V	45.92	56.25	67.96	11.71
	•		Test Freque	ency: 24.24 G	Hz		
48.480	38.13	PK	Н	40.11	68.70	87.96	19.26
48.480	27.10	AV	Н	40.11	57.67	67.96	10.29
48.480	38.12	PK	V	40.11	68.69	87.96	19.27
48.480	26.23	AV	V	40.11	56.80	67.96	11.16
72.720	39.23	PK	Н	43.89	73.58	87.96	14.38
72.720	27.18	AV	Н	43.89	61.53	67.96	6.43
72.720	46.35	PK	V	43.89	80.70	87.96	7.26
72.720	23.50	AV	V	43.89	57.85	67.96	10.11
96.960	37.34	PK	Н	45.97	67.75	87.96	20.22
96.960	26.30	AV	Н	45.97	56.71	67.96	11.25
96.960	38.27	PK	V	45.97	68.68	87.96	19.28
96.960	25.76	AV	V	45.97	56.17	67.96	11.79

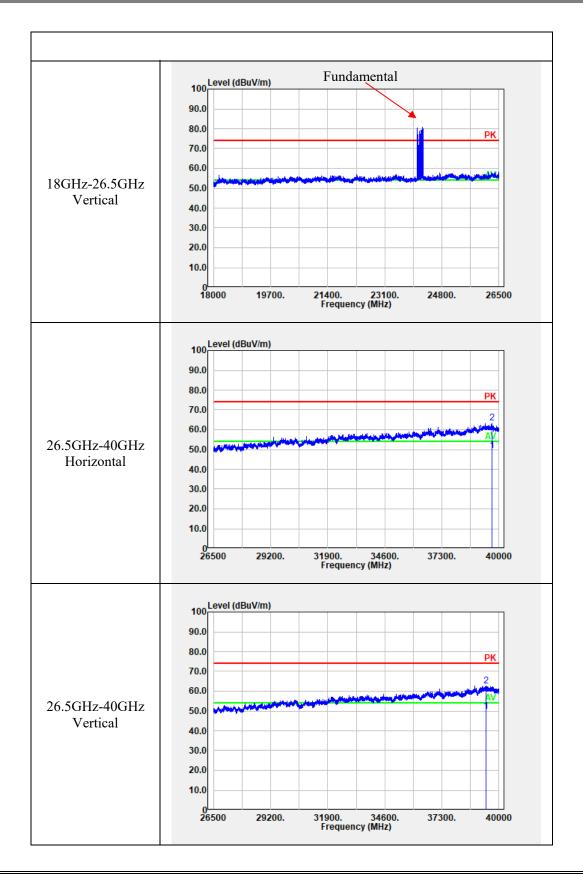
Note:

1. All possible modes of operation were investigated, and testing at two nominal voltages of AC12V and DC 5V, only the worst-case (AC/DC Adapter Power Supply mode was worst) emissions reported.

2. Result = Reading + Factor- Distance extrapolation Factor For 40-90GHz: Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1m]) dB= 9.54 dB For 90-100GHz: Distance extrapolation Factor =20 log (specific distance [3m]/test distance [0.5m]) dB= 15.56 dB



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4.3 20 dB Emission Bandwidth:

Serial Number:	289J-1	Test Date:	2023/8/2
Test Site:	966-1	Test Mode:	Transmitting
Tester:	coco Tian	Test Result:	Pass

Environmental	Conditions:				
Temperature: ($^{\circ}C$)	29	Relative Humidity: (%)	58	ATM Pressure: (kPa)	99.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/9/16	2023/9/15
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2022/8/7	2023/8/6

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Mode	20 dB Bandwidth (MHz)
Sweep Mode	191.750

	Spectrum					
	Ref Level 97.00	dBuV	RBW 3 MHz			14
		0 dB . SWT 300 ms	. VBW 10 MHz	Mode Auto Sweep		
	1Pk Max					
		Juni	والبيدان والمتدوم است	unu Millill Lag		93.55 dBµV
	90 d8µV		- Internet Constructions of Con-	ndB		24.226700 GHz 20.00 dB
	80 dBu/V			Bw	191.7	50000000 MHz
		4	1 1	Q factor	24	126.3
	70 dBµV		_	_		-
		uppound			X	
	66.38134-4-1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				Mitronenauer	- Minihala
	50 d8µV-	-				
	40 dBµV					
Sweep Mode						
1	30 dBµV					
	20 dBµV					
	20 000					
	10 dBµV					
	0 dBµV CF 24.15 GHz					oan 500.0 MHz
	CF 24.15 GHz Marker		691 pts		5	ban 500.0 MHz
	Type Ref Trc	X-value	Y-value	Function	Function Re	sult [
	M1 1	24.2267 GHz		ndB down	T directori ric	191.75 MHz
	T1 1	24.05376 GHz 24.24551 GHz		ndB Q factor		20.00 dB 126.3

5. EUT PHOTOGRAPHS

Please refer to the attachment CR230740716-EXP EUT EXTERNAL PHOTOGRAPHS and CR230740716-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230740716-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====