



TEST REPORT

Applicant: Quanshun Communication Technology Co., Ltd

Address: Quanshun Bldg., Daxiamei, Nan'an, Quanzhou, Fujian, China

FCC ID: 2ADQZGMRS1

Product Name: Mulit Band Transceiver

Standard(s): 47 CFR Part 15 Subpart B

ANSI C63.4-2014

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

Report Number: CR221047779-00A

Date Of Issue: 2023/1/5

Reviewed By: Sun Zhong Sun 2hong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,

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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.

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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 "\(\Lambda \)". 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	CR221047779-00A	Original Report	2023/1/5

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1:1 1 Toutet Description for Equipment under Test (Ee 1)		
EUT Name:	Mulit Band Transceiver	
EUT Model:	A36plus	
Multiple Models:	A36,A36P,A361,A37,A371,UV-37,UV-A37,EP-UVA37,UV36,UV37	
Highest Operation Frequency:	520MHz	
Rated Input Voltage:	DC 7.4V from battery or DC 5V charging from Adapter	
Serial Number:	1MOG-8	
EUT Received Date:	2022/10/24	
EUT Received Status:	Good	

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Note: The Multiple models are electrically identical with test model, please refer to the declaration letter for more detail, which was provided by manufacturer.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	Quanshun Communication	JZ001M-0520UU	Input: AC 100-240V 50/60Hz 0.3A
Traupter	Technology Co., Ltd	32001141 032000	Output: DC 5V 1000mA

Operation Frequency And Test Channel:

Operation Modes	Operation Frequency Range (MHz)	Test Frequency
FM Broadcast Receiving	65-108	65.1MHz, 86.5MHz, 107.9MHz
AM Receiving	108-136	108MHz,122MHz, 135.9875MHz
NOAA Receiving	161.65-163.275	161.65MHz, 163.275 MHz
VHF Receiving	136-260	136 MHz, 220 MHz, 260 MHz
UHF Receiving	350-520	350MHz, 435 MHz, 520 MHz
Scanning	136-520	/

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

1.2.1 EU1 Operation Condition	11•
EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: M1: FM Broadcast Receiving(65.1MHz, 86.5MHz, 107.9MHz) M2: AM Receiving(108MHz, 122MHz, 135.9875MHz) M3: VHF Receiving(136MHz, 220MHz, 260 MHz) M4: UHF Receiving(350MHz, 435MHz, 520 MHz) M5: NOAA Receiving(161.65MHz, 163.275MHz) M6: Scanning
Equipment Modifications:	No
EUT Exercise Software:	No

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1.2.2 Support Equipment List and Details

Tiziz Support Equipmen			
Manufacturer	Description	Model	Serial Number
НР	RF Communications Test Set	8920A	3438A05201

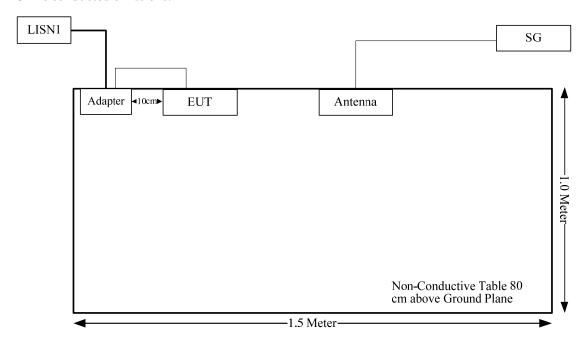
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
USB Cable	Yes	No	0.8	Adapter	EUT

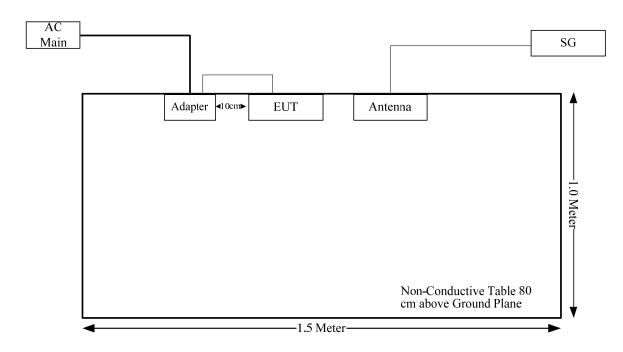
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1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Radiated emissions:



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.

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Parameter	Measurement Uncertainty		
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB,		
Unwanted Emissions, radiated	6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB		
Temperature	±1°C		
Humidity	±5%		
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)		

2. SUMMARY OF TEST RESULTS

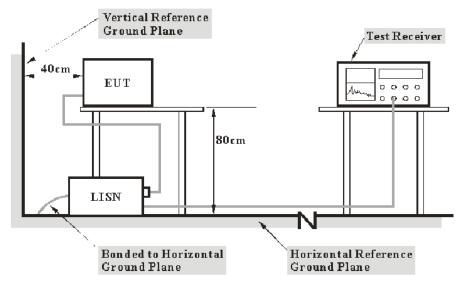
Standard(s) Section	Description of Test	Result
§15.107	Conducted emissions	Compliant
§15.109	Radiated emissions	Compliant
§15.111	Antenna power conduction limits for receivers	Compliant
§15.121(b)	Scanning receivers and frequency converters used with scanning receivers	Compliant

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3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 EUT Setup



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Note: 1. Support units were connected to second LISN.

2. 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 C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

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

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.2 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

3.1.3 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

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Maximizing procedure was performed on the six (6) highest emissions of the EUT, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

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

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

3.1.4 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:

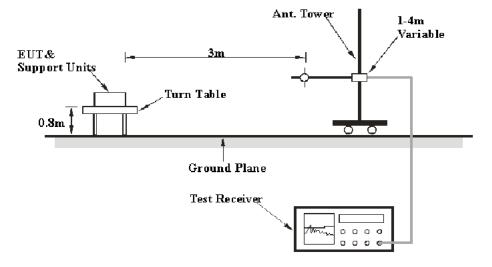
Margin = Limit - Result

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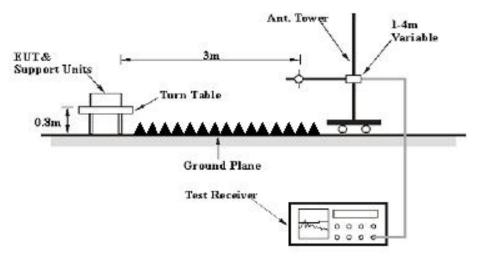
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was with the FCC Part 15 B Class B limits.

3.2.2 Equipment Setup

The system was investigated from 30 MHz to 5 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
Above I GHZ	1 MHz	10Hz	/	AVG

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

3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

The data was recorded in the Quasi-peak detection mode for below 1 GHz.

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

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

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 Antenna Power Conduction Limits for Receivers

3.3.1 Applicable Standard

FCC§15.111.

(a) In addition to the radiated emission limits, receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of § 15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna, provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in § 15.33 shall not exceed 2.0 nanowatts.

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Test Procedure

EUT antenna port connected to a spectrum analyzer, the traces were recorded as shown on the data pages.

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3.4 Scanning Receivers and Frequency Converters Used with Scanning Receivers

Applicable Standard

FCC §15.121(b).

(b) Except as provided in paragraph (c) of this section, scanning receivers shall reject any signals from the Cellular Radiotelephone Service frequency bands that are 38 dB or lower based upon a 12 dB SINAD measurement, which is considered the threshold where a signal can be clearly discerned from any interference that may be present.

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Test Procedure

1. Connected the EUT as the below block diagram;



- 2. Apply a signal to the EUT antenna port at lowest, middle, highest channel frequencies of the operating band;
- 3. Adjust the audio output level of the EUT to it's rated value with the distortion less than 10%;
- 4. Adjust the Signal Generator output power to produce 12 dB SINAD without the audio output power dropping by more than 3 dB; These output level of the Signal Generator at each channel frequency is the sensitivity of the EUT;
- 5. Select the lowest or worst case sensitivity level for all of the bands as the reference sensitivity;
- 6. Adjust the Signal Generator output to a level of +60 dB above the reference sensitivity obtained in step 5 and its frequency to the frequency point in the Cellular Band;
- 7. Set the EUT squelch to threshold, the signal required to open the squelch must be lower than the reference sensitivity level;
- 8. Set the EUT in a scanning mode and allow it to scan through it's complete receiving range;
- 9. If the EUT un-squelched or stopped on any frequency, receiving at this frequency, then adjust the signal generator output level until 12 dB SINAD is produced, this level is the spurious value and the difference between the reference sensitivity and the spurious value is the rejection ratio and must be at least 38 dB;
- 10. Repeat above procedure at the frequencies 824, 836, 849 MHz for the mobile band, and 869, 881.5 and 894 MHz for the Cellular Base Band.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	1MOG-8	Test Date:	2022/11/17
Test Site:	CE	Test Mode:	M1~M6
Tester:	Vic Du	Test Result:	Pass

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Environmental Conditions:					
Temperature: $(^{\circ}\mathbb{C})$	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100.8

Test Equipment List and Details:

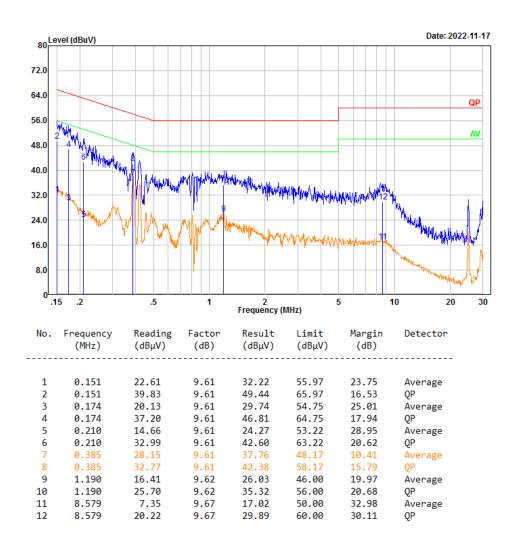
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022/04/01	2023/03/31
R&S	EMI Test Receiver	ESR3	102726	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022/08/07	2023/08/06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

^{*} 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).

FM Broadcast Receiving(86.5MHz was worst):

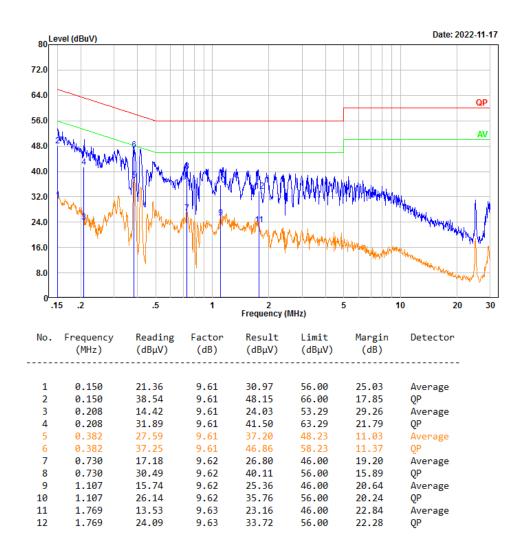
Line:

Port: Line Note:



Neutral:

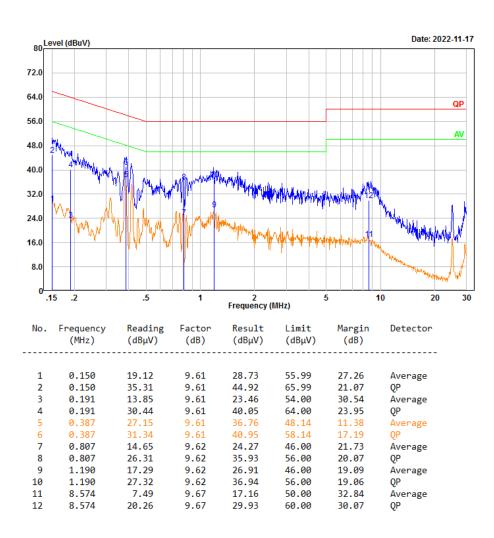
Port: neutral Note:



AM Receiving(122MHz was the worst):

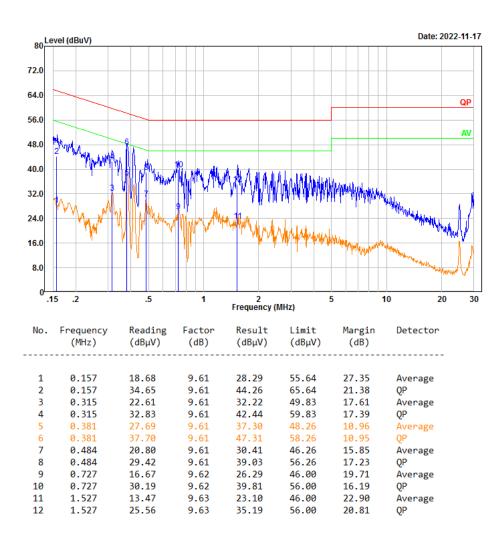
Line:

Port: Line Note:



Neutral:

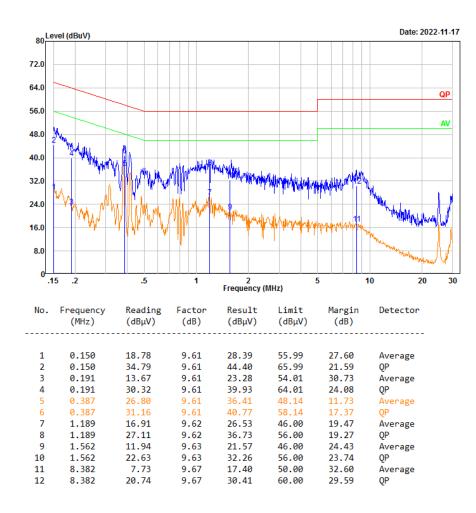
Port: neutral Note:



VHF Receiving(220MHz was worst):

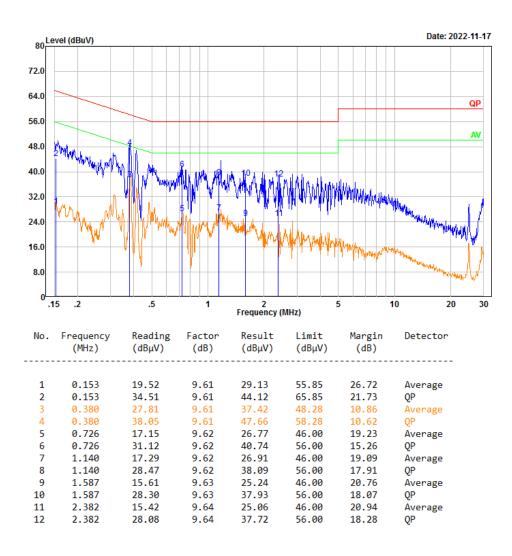
Line:

Port: Line Note:



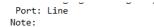
Neutral:

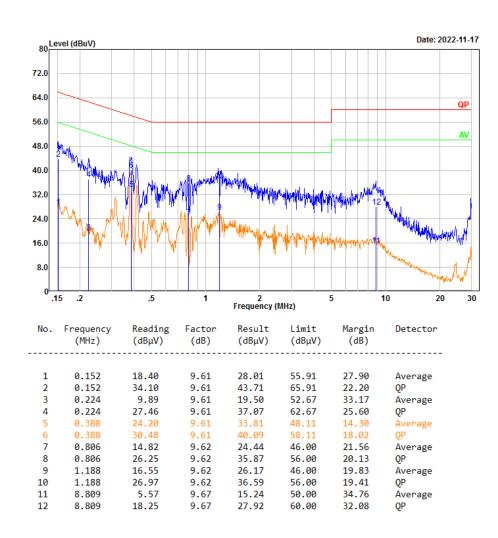
Port: neutral Note:



UHF Receiving(435MHz was worst):

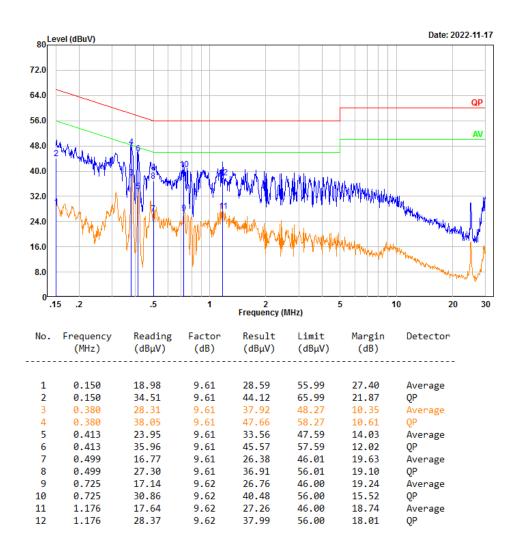
Line:





Neutral:

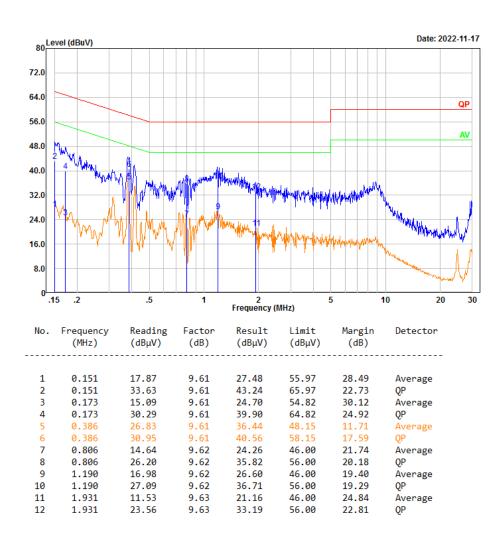
Port: neutral Note:



NOAA Receiving(161.65MHz was worst):

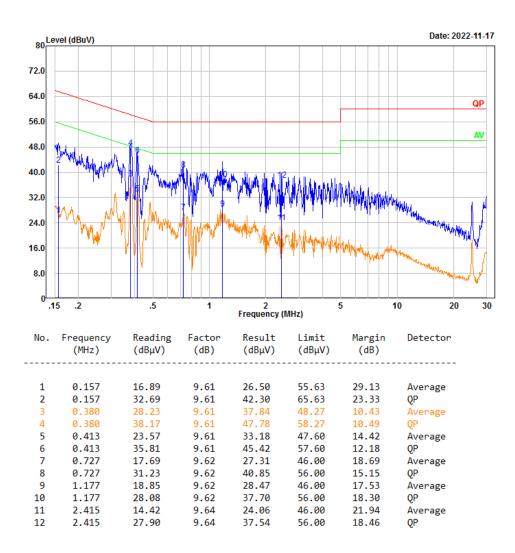
Line:

Port: Line Note:



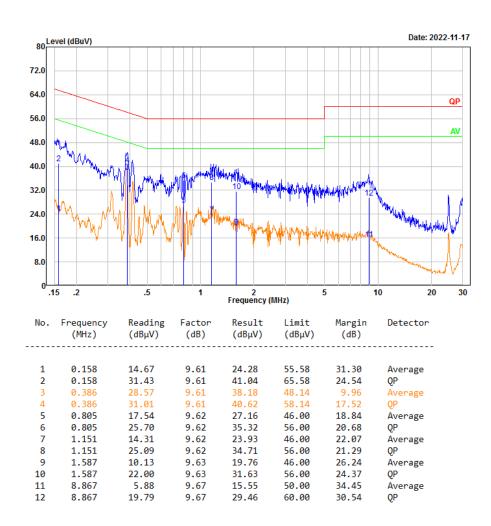
Neutral:

Port: neutral



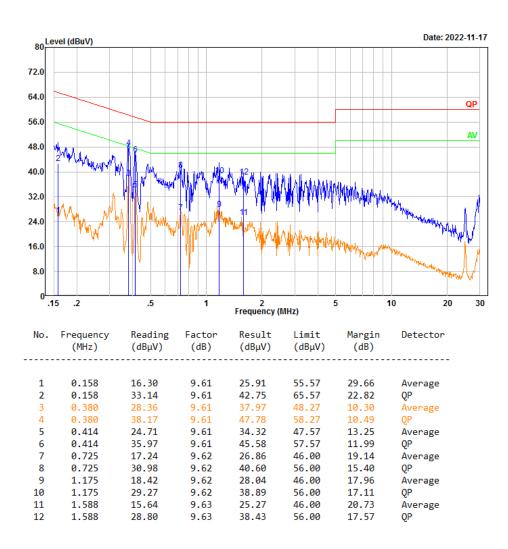
Scanning: Line:

Port: Line Note:



Neutral:

Port: neutral Note:



4.2 Radiation Spurious Emissions

Serial Number:	1MOG-8	Test Date:	2022/11/10 (Below 1GHz) 2022/11/09(Above 1GHz)
Test Site:	966-2, 966-1	Test Mode:	M1~M6
Tester: Mack Huang, Carl Xue		Test Result:	Pass

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Environmental Conditions:						
Temperature: $(^{\circ}\mathbb{C})$	24.9~25.9	Relative Humidity: (%)	57~67	ATM Pressure: (kPa)	100.9~101.2	

Test Equipment List and Details:

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		
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14		
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2022/07/17	2023/07/16		
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2022/07/17	2023/07/16		
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16		
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	2022/07/15	2023/07/14		
MICRO-COAX	Coaxial Cable	UFA210A-1- 1200-70U300	217423-008	2022/08/07	2023/08/06		
MICRO-COAX	Coaxial Cable	UFA210A-1- 2362-300300	235780-001	2022/08/07	2023/08/06		
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021/11/10	2022/11/09		
Audix	Test Software	E3	201021 (V9)	N/A	N/A		

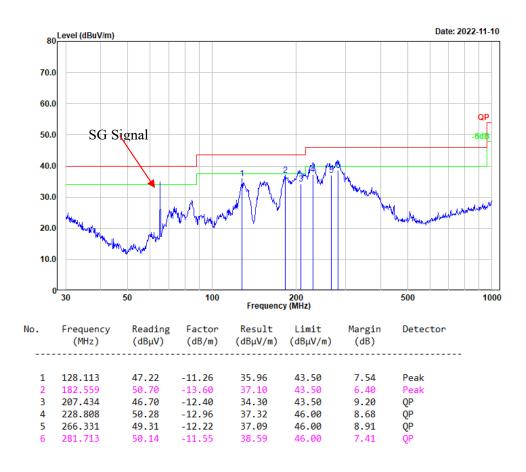
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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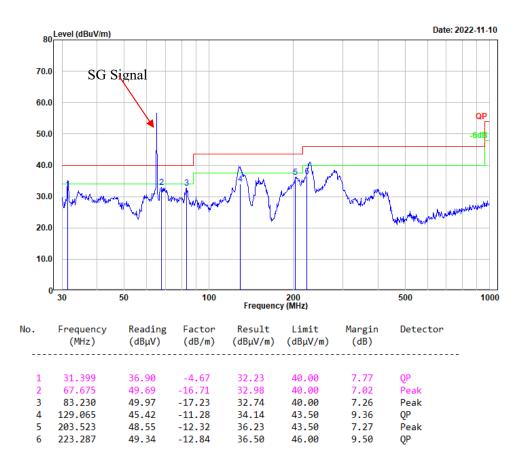
1) 30MHz-1GHz:

FM Broadcast Receiving 65.1 MHz:

Polarization: horizontal Note:

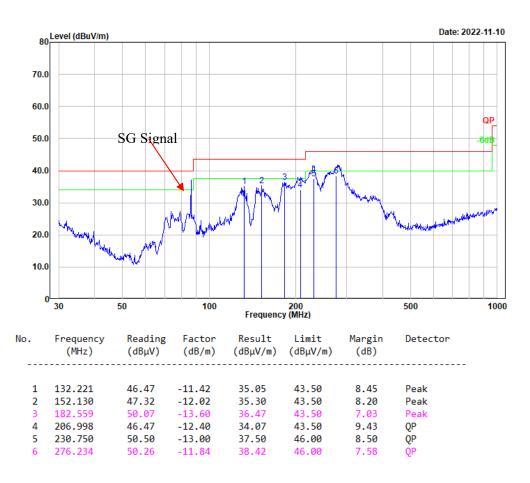


Polarization: vertical Note:

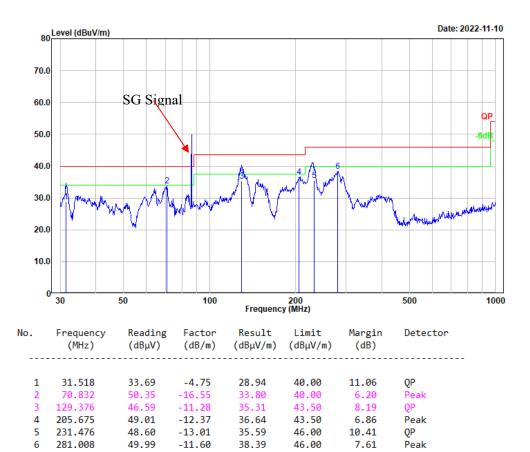


FM Broadcast Receiving 86.5 MHz:

Polarization: horizontal Note:



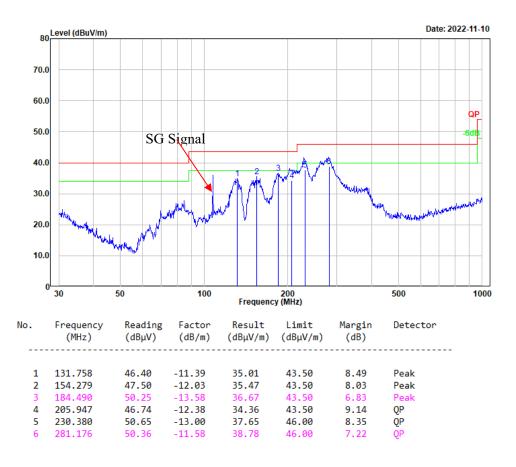
Polarization: vertical Note:



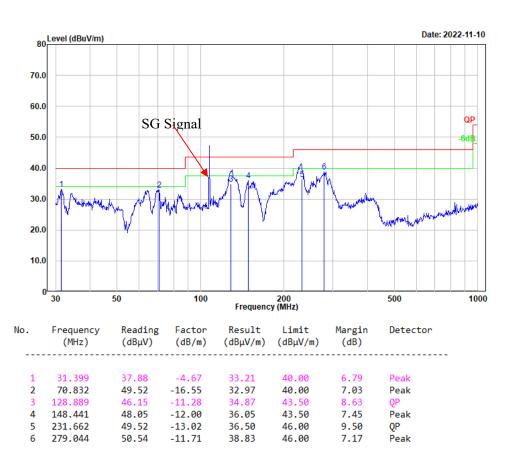
FM Broadcast Receiving 107.9 MHz:

Polarization: horizontal

Note:

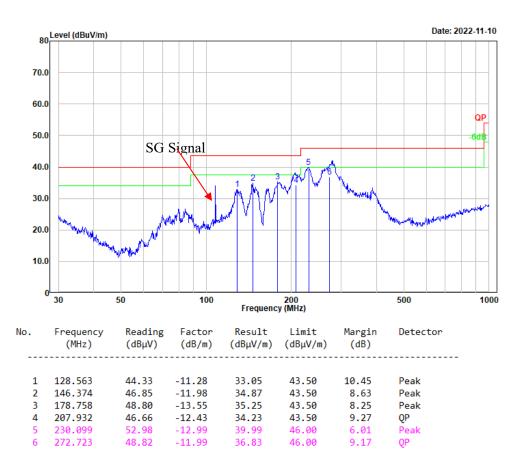


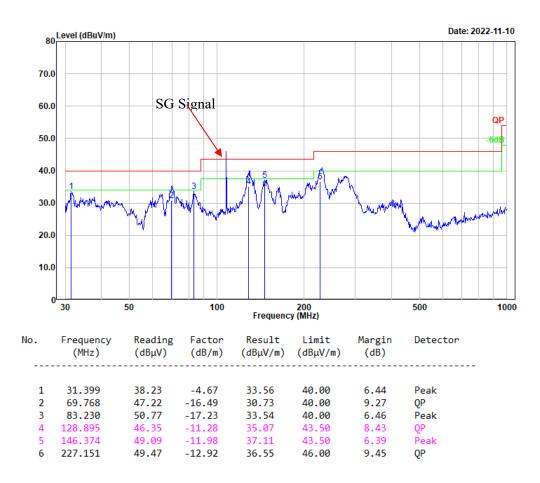
Polarization: vertical Note:



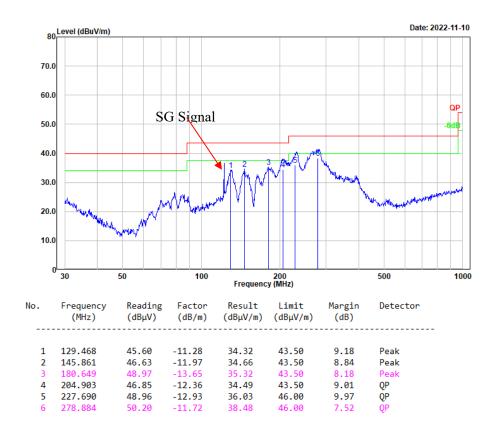
AM Receiving 108MHz:

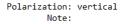
Polarization: horizontal Note:

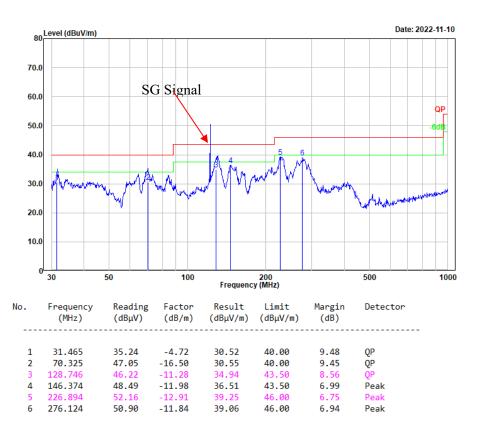




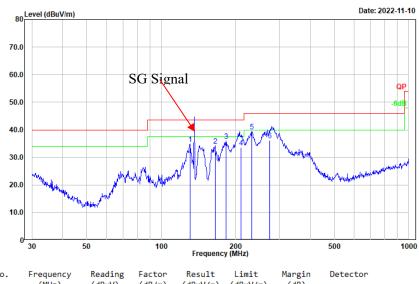
AM Receiving 122MHz:



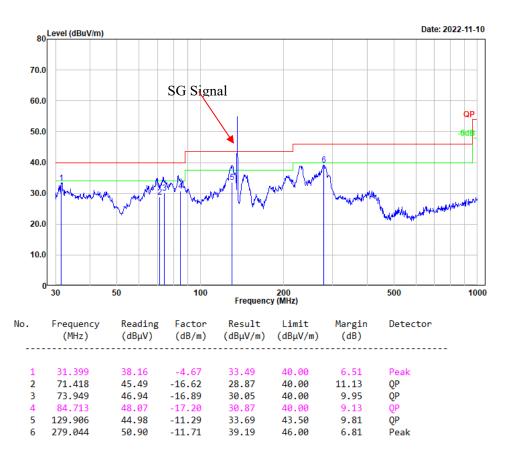




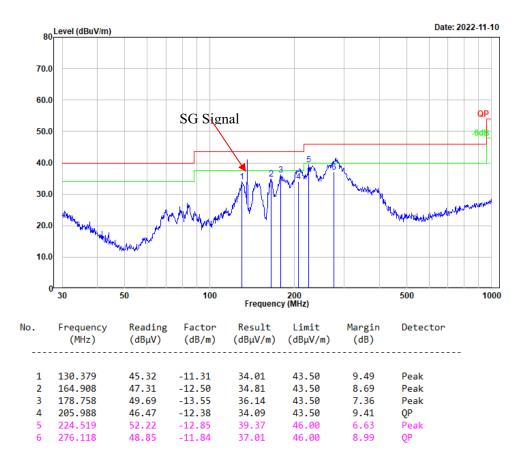
AM Receiving 135.9875MHz:

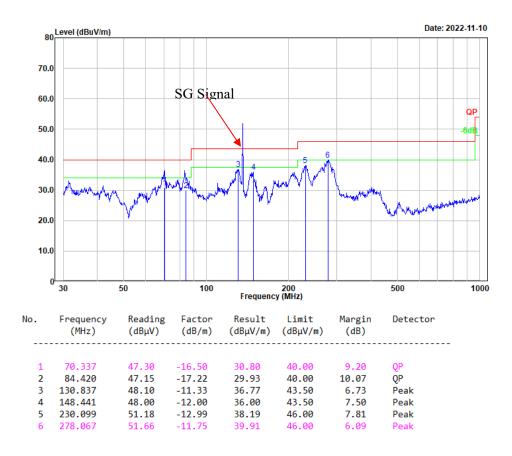


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	130.837	46.33	-11.33	35.00	43.50	8.50	Peak
2	164.908	46.79	-12.50	34.29	43.50	9.21	Peak
3	182.559	49.48	-13.60	35.88	43.50	7.62	Peak
4	210.458	46.11	-12.48	33.63	43.50	9.87	QP
5	231.718	52.54	-13.02	39.52	46.00	6.48	Peak
6	274 617	48 16	-11 92	36 24	46 00	9.76	ΩP



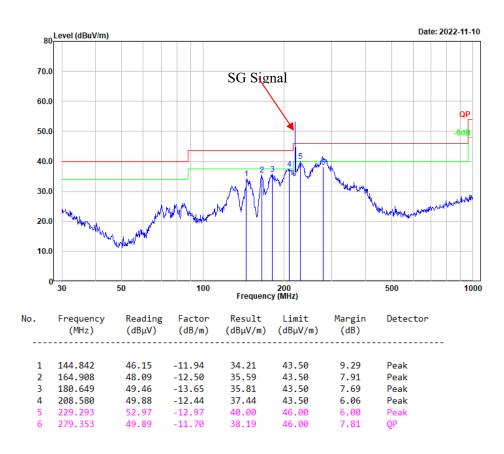
VHF Receiving 136MHz:

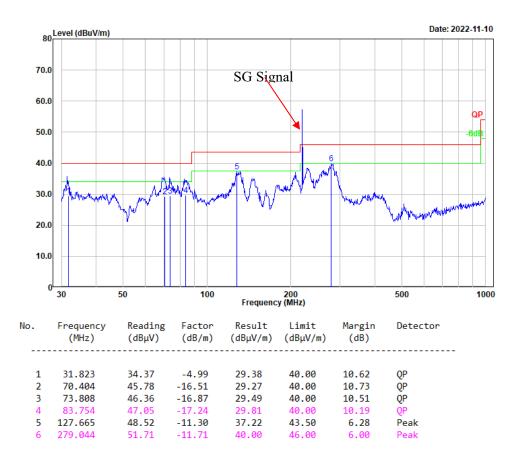




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VHF Receiving 220MHz:





282.995

49.55

-11.47

38.08

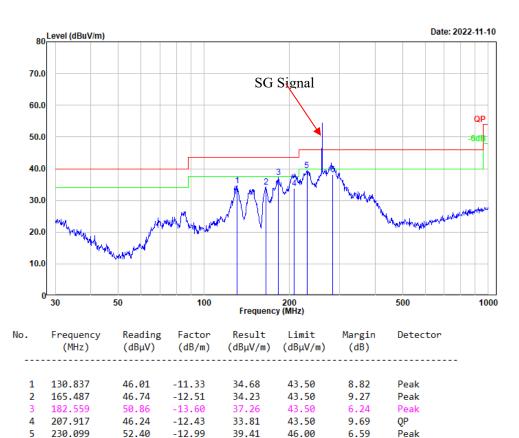
46.00

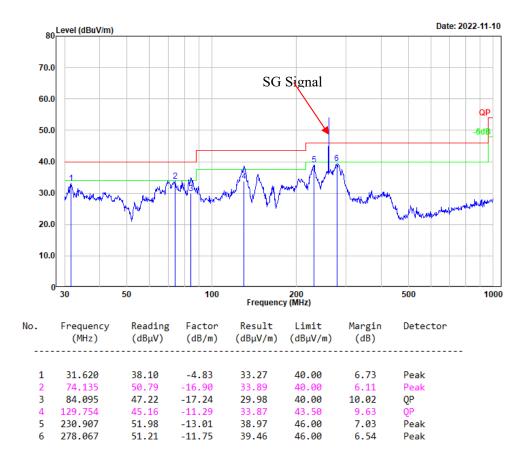
7.92

VHF Receiving 260MHz:

Polarization: horizontal

Note:





185.138

207.850

229.293

280.277

49.41

49.11

52.79

49.50

-13.56

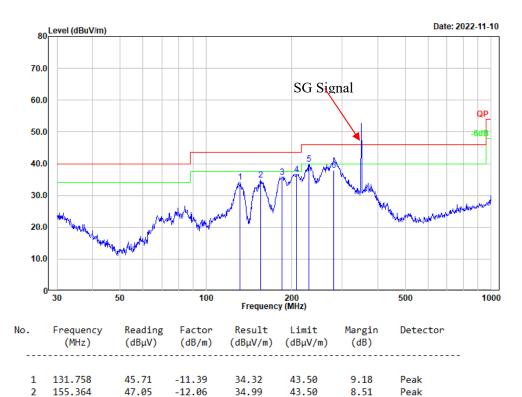
-12.43

-12.97

-11.65

UHF Receiving 350MHz:

Polarization: horizontal Note:



35.85

36.68

39.82

37.85

43.50

43.50

46.00

46.00

7.65

6.82

6.18

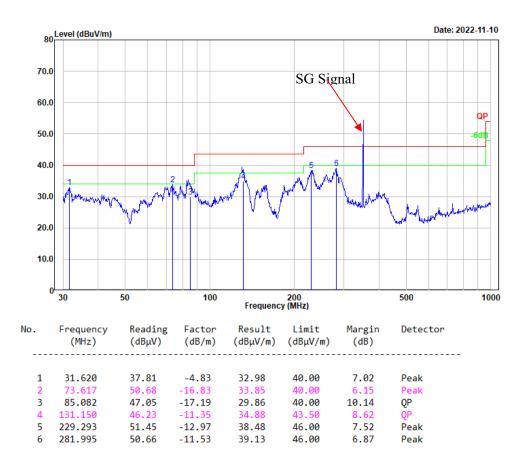
8.15

Peak

Peak

Peak

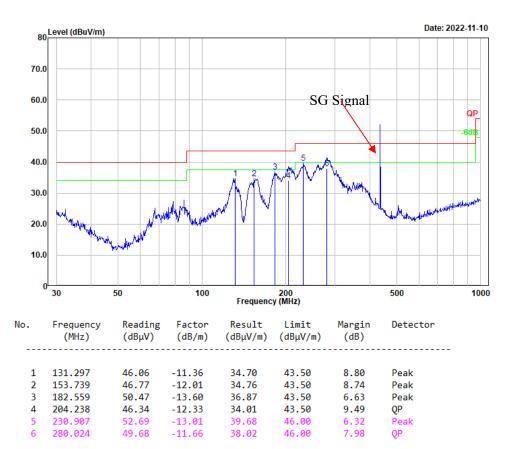
QР

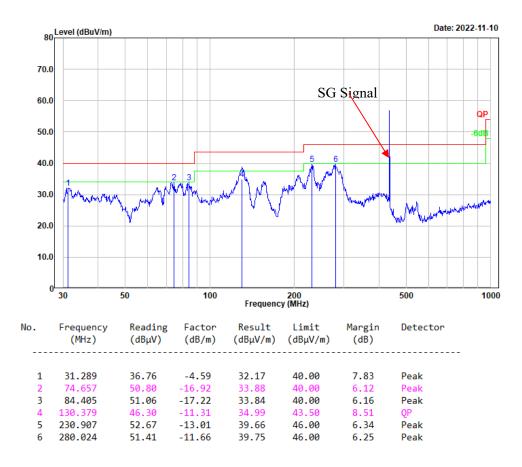


UHF Receiving 435MHz:

Polarization: horizontal

Note:

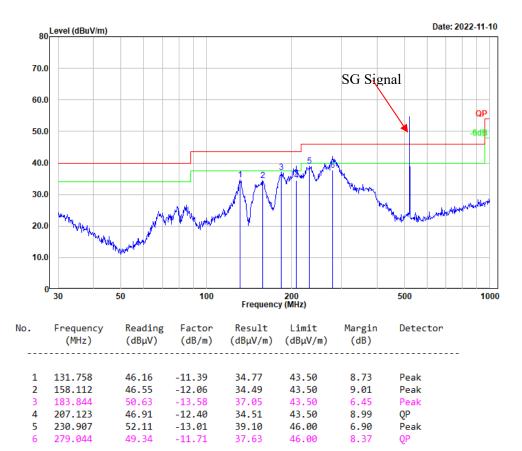


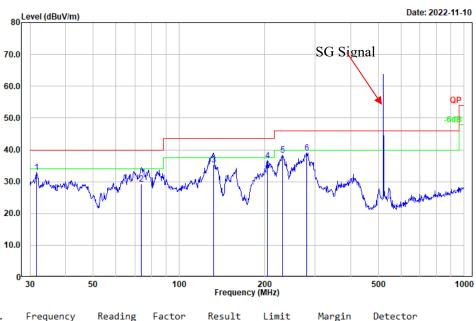


UHF Receiving 520MHz:

Polarization: horizontal

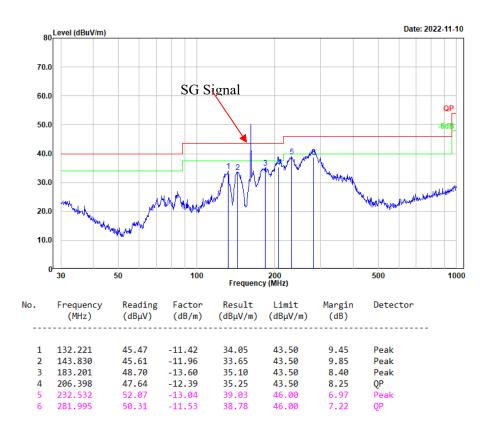
Note:

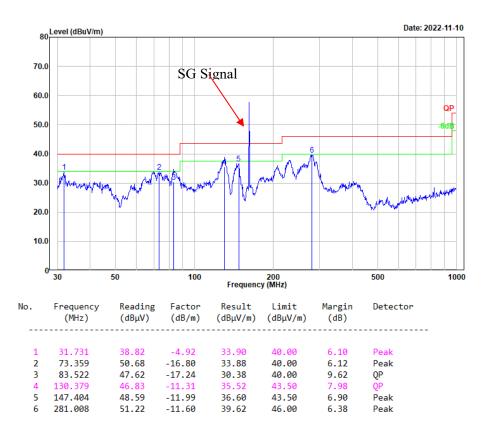




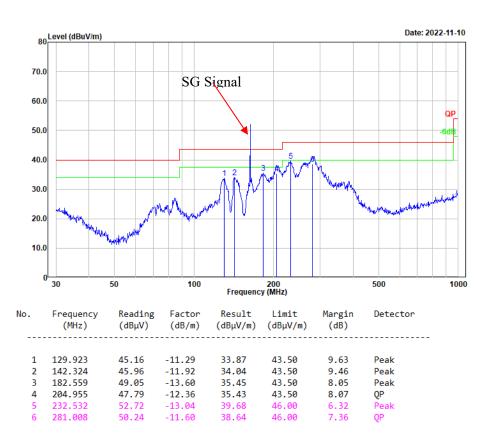
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	
1	31.620	37.77	-4.83	32.94	40.00	7.06	Peak	
2	73.617	46.13	-16.83	29.30	40.00	10.70	QP	
3	132.221	46.73	-11.42	35.31	43.50	8.19	QP	
4	204.238	49.05	-12.33	36.72	43.50	6.78	Peak	
5	230.907	51.33	-13.01	38.32	46.00	7.68	Peak	
6	280 024	50 70	11 66	20 12	16 00	6 97	Dook	

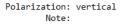
NOAA Receiving 161.65MHz:

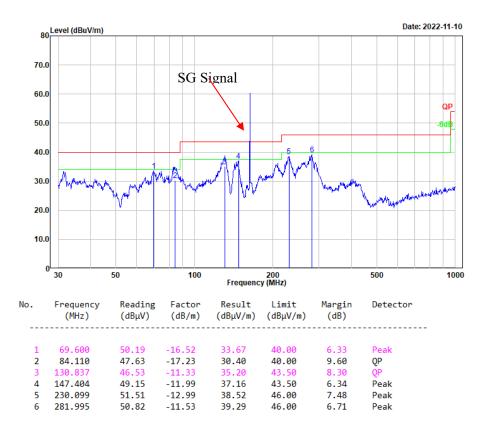




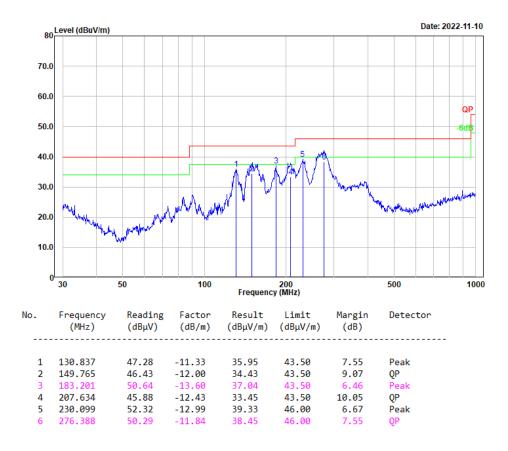
NOAA Receiving 163.275MHz:

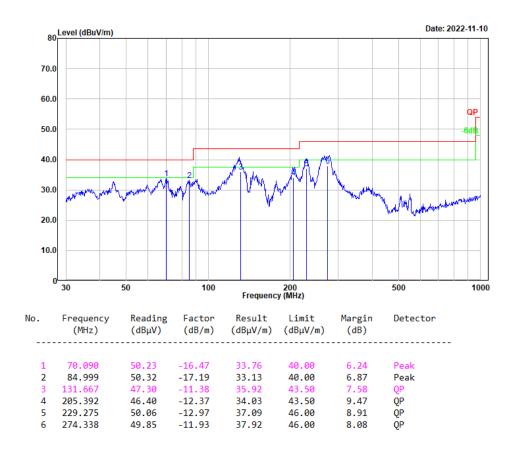




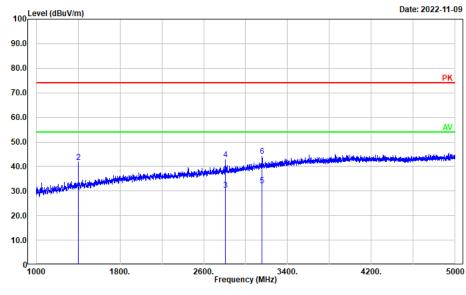


Scanning:

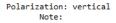


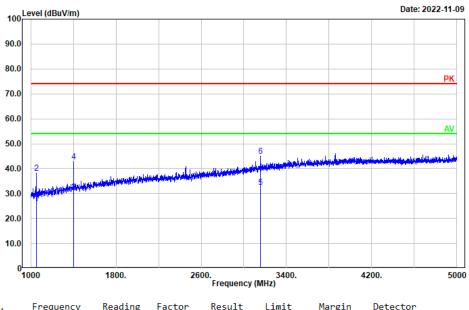


2) Above 1GHz(Worst mode is Scanning):



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1403.281	30.26	-0.69	29.57	54.00	24.43	Average
2	1403.281	42.52	-0.69	41.83	74.00	32.17	Peak
3	2805.961	25.28	5.20	30.48	54.00	23.52	Average
4	2805.961	37.56	5.20	42.76	74.00	31.24	Peak
5	3155.631	25.10	7.09	32.19	54.00	21.81	Average
6	3155.631	37.20	7.09	44.29	74.00	29.71	Peak





No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1052.010	28.30	-2.40	25.90	54.00	28.10	Average
2	1052.010	40.61	-2.40	38.21	74.00	35.79	Peak
3	1402.480	31.23	-0.69	30.54	54.00	23.46	Average
4	1402.480	43.45	-0.69	42.76	74.00	31.24	Peak
5	3157.231	25.42	7.09	32.51	54.00	21.49	Average
6	3157.231	37.85	7.09	44.94	74.00	29.06	Peak

4.3 Antenna Power Conduction Limits for Receivers

Serial Number:	1MOG-8	Test Date:	2022/11/30-2023/1/4
Test Site:	RF	Test Mode:	M1~M6
Tester:	Rinka Li	Test Result:	Pass

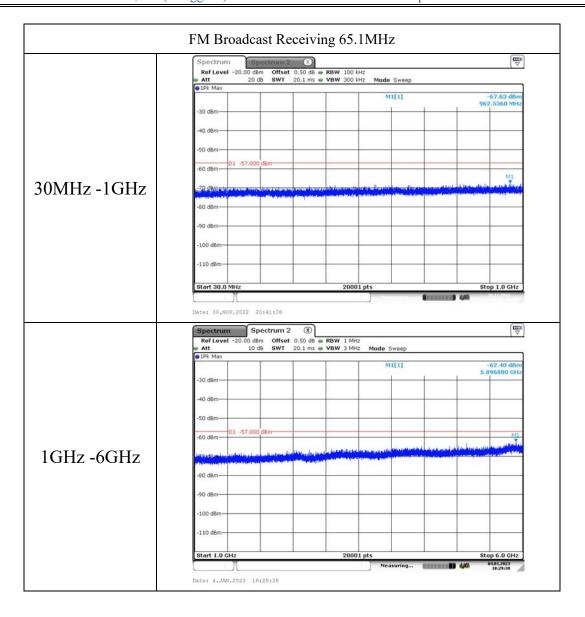
Report No.: CR221047779-00A

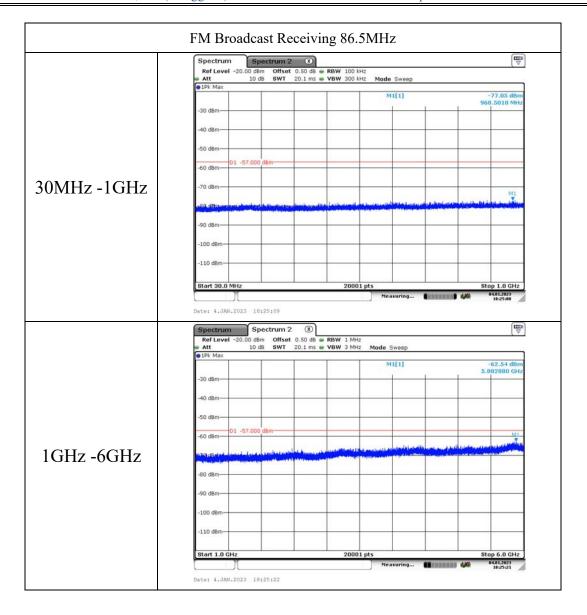
Environmental Conditions:								
Temperature: (°C)	20.9~26.2	Relative Humidity: (%)	55~68	ATM Pressure: (kPa)	100.9~101.1			

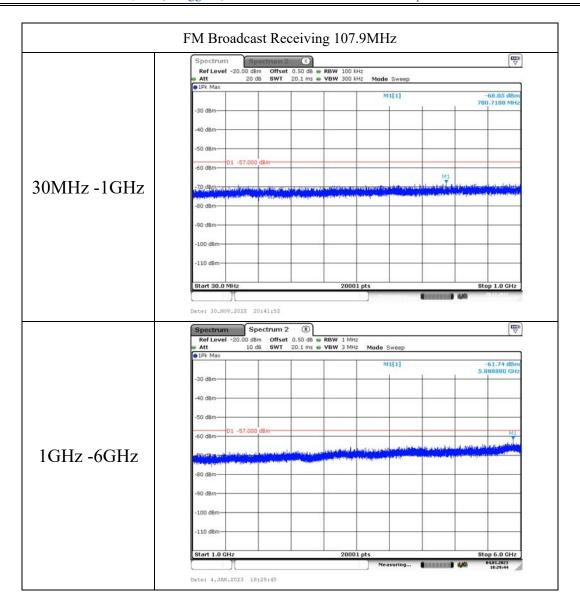
Test Equipment List and Details:

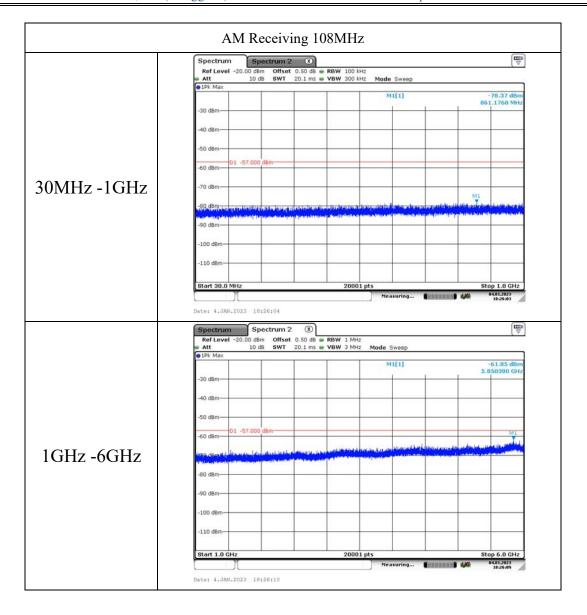
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/07/15	2023/07/14
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

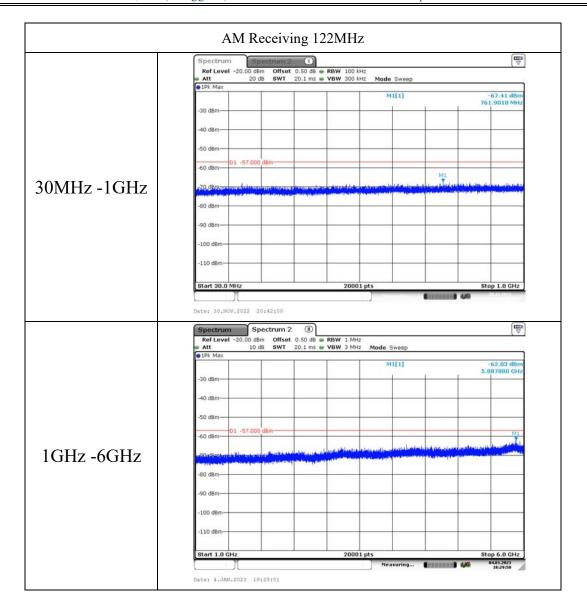
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

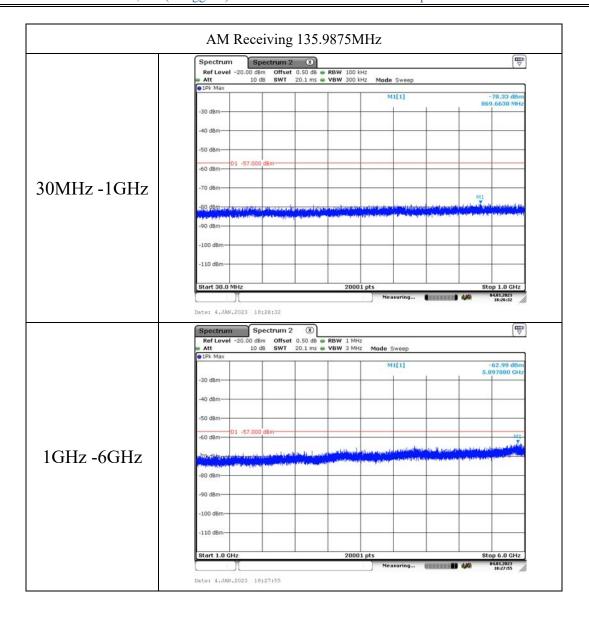


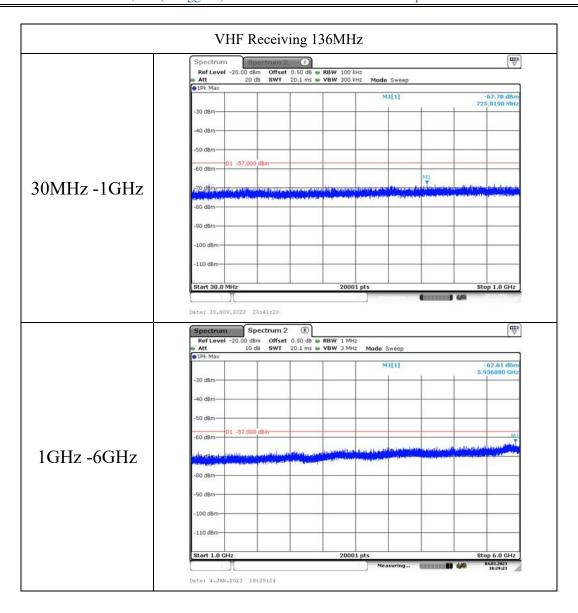


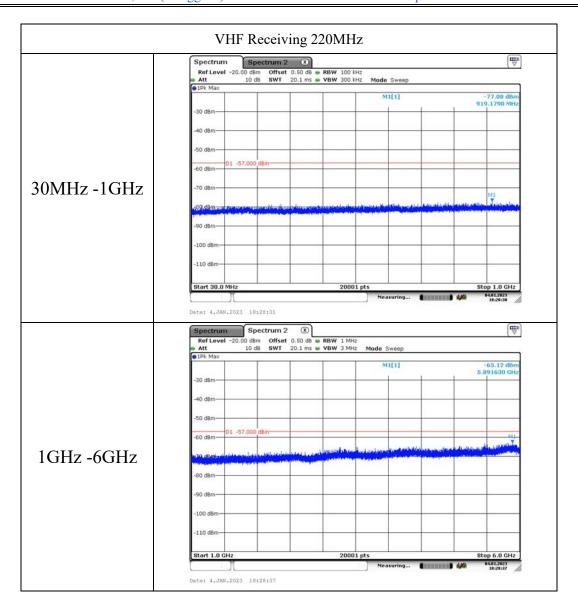


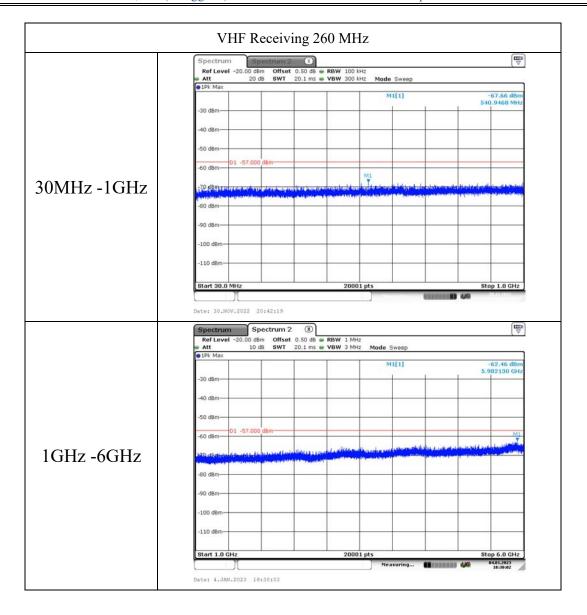


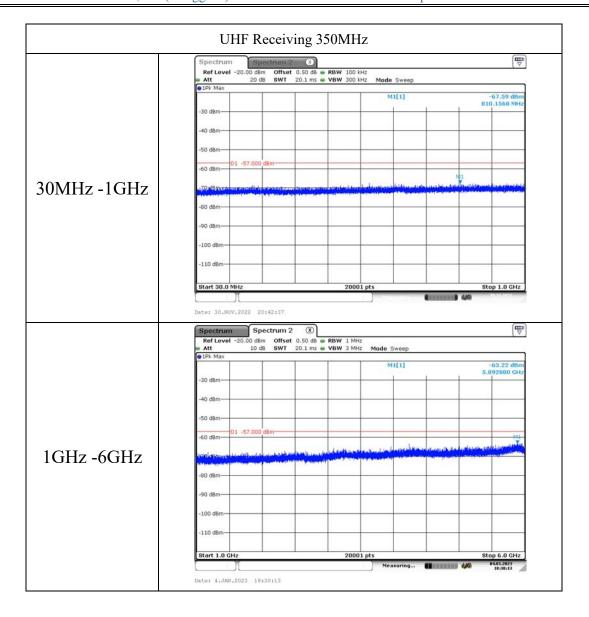


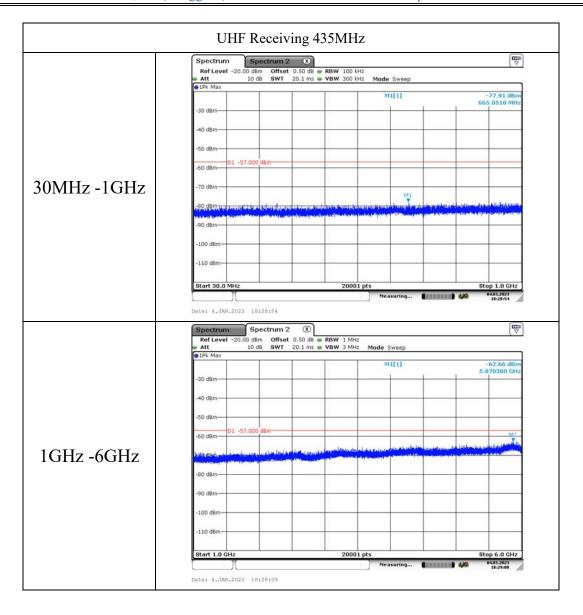


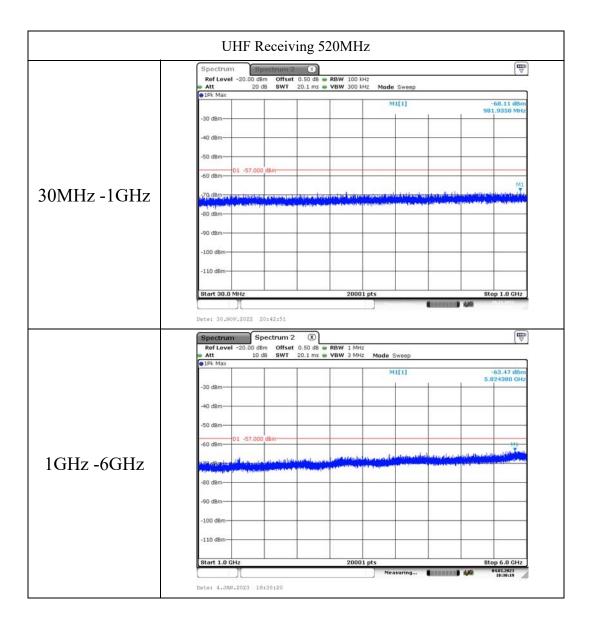


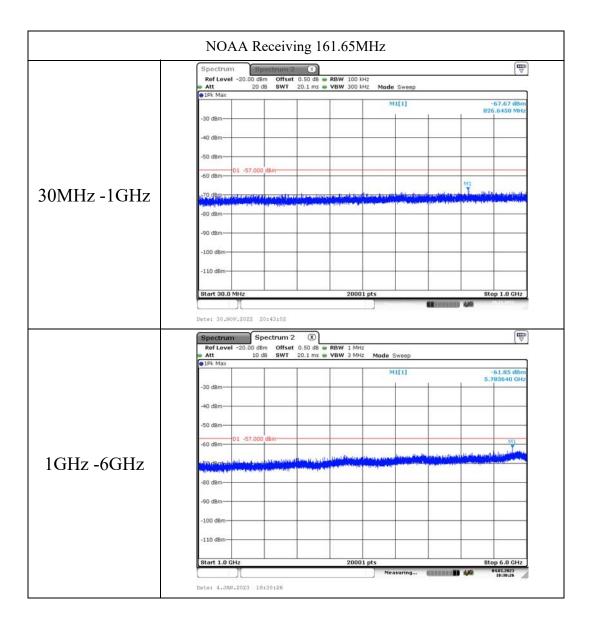


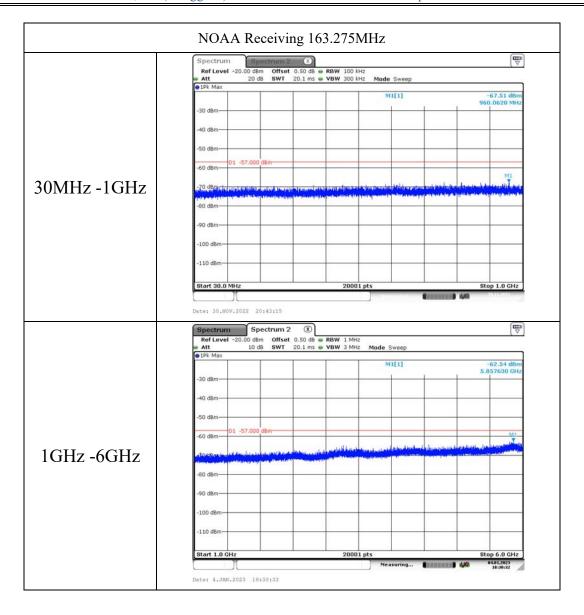


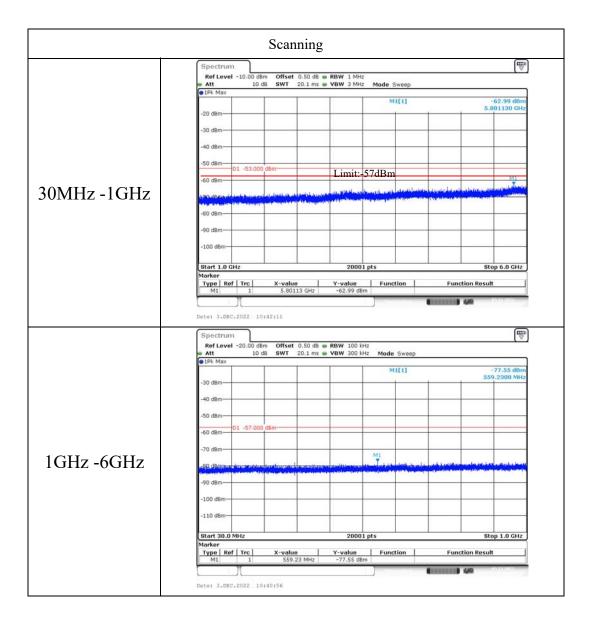












4.3 Scanning Receivers and Frequency Converters Used with Scanning Receivers

Serial Number:	1MOG-8	Test Date:	2022/11/30
Test Site:	RF	Test Mode:	Scanning
Tester:	Rinka Li	Test Result:	Pass

Report No.: CR221047779-00A

Environmental Conditions:							
Temperature: $(^{\mathbb{C}})$	26.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	101.1		

Test Equipment List and Details:

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Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
НР	RF Communications Test Set	8920A	3438A05209	2022/07/15	2023/07/14		
Agilent	Signal Generator	E8247C	MY43321352	2022/04/01	2023/03/31		
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	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).

Test Data:

Scanning Frequency Range	Test Frequency	Measurement Result (Worst Case)	Limit
MHz	MHz	dB	dB
136-520	824, 836, 849, 869, 881.5, 894	45.92	>38

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