



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



Certificate #6356.01

TEST REPORT

Applicant: SAIN3 LLC

Address: 36 Berkley Drive, Newark, Delaware, 19702 United States

Product Name: Amateur Radio

Standard(S): FCC PART 97
ANSI C63.26-2015
TIA-603-E-2016

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

Report Number: CR231060848-00BA1

Date Of Issue: 2023/10/30

Reviewed By: Julie Tan

Title: RF Engineer

Julie Tan

Approved By: Sun Zhong

Title: Manager

Sun Zhong

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

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

Tel: +86-769-82016888

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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CONTENTS

DOCUMENT REVISION HISTORY 4

EUT PHOTOGRAPHS 5

BELOW IS THE ORIGINAL REPORT 6

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230633404-00B	Original Report	2023/9/16
2.0	CR231060848-00BA1	Amended Report	2023/10/30

Note: This is the amended report application which was based on the original report. The differences between them as following:

1. Change the applicant and manufacturer to: **SAIN3 LLC** (Address: **36 Berkley Drive, Newark, Delaware, 19702 United States**).
2. Change the trade name to **Radioddity**.
3. Change the product model to **GC-5**.
4. Change the screen printing and appearance color of product.

The changes between the previous device and the current one are stated and guaranteed by the Applicant, the differences between them will not affect the test results, and we will keep the test results and test photos, but update the related EUT photos.

EUT PHOTOGRAPHS

Please refer to the attachment CR231060848-A1-EXP EUT EXTERNAL PHOTOGRAPHS.

BELOW IS THE ORIGINAL REPORT



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: PO FUNG ELECTRONIC (HK) INTERNATIONAL
GROUP COMPANY LIMITED

Address: Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road,
Kowloon, Hong Kong

Product Name: Amateur Radio

Standard(S): FCC PART 97
ANSI C63.26-2015
TIA-603-E-2016

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

Report Number: CR230633404-00B

Date Of Issue: 2023/9/16

Reviewed By: Julie Tan

Title: RF Engineer

Julie Tan

Approved By: Sun Zhong

Title: Manager

Sun Zhong

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

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

Tel: +86-769-82016888

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CONTENTS

TEST FACILITY	2
DECLARATIONS	2
DOCUMENT REVISION HISTORY	4
1. GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
1.2 TECHNICAL SPECIFICATION	5
1.3 DESCRIPTION OF TEST CONFIGURATION	6
1.3.1 EUT Operation Condition:	6
1.3.2 Support Equipment List and Details	6
1.3.3 Support Cable List and Details.....	6
1.3.4 Block Diagram of Test Setup	6
1.4 MEASUREMENT UNCERTAINTY	7
2. SUMMARY OF TEST RESULTS	8
3. REQUIREMENTS AND TEST PROCEDURES	9
3.1 RF OUTPUT POWER.....	9
3.1.1 Applicable Standard	9
3.1.2 Test Procedure	9
3.2 MODULATION CHARACTERISTIC:	9
3.2.1 Applicable Standard	9
3.2.2 Test Procedure	9
3.3 OCCUPIED BANDWIDTH & EMISSION MASK:	9
3.3.1 Applicable Standard	9
3.3.2 Test Procedure	9
3.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS:	10
3.4.1 Applicable Standard	10
3.4.2 Test Procedure	10
3.5 RADIATED SPURIOUS EMISSIONS:	10
3.5.1 Applicable Standard	10
3.5.2 Test Procedure	10
3.6 FREQUENCY STABILITY:	10
3.6.1 APPLICABLE STANDARD	10
3.6.2 Test Procedure	10
4. Test DATA AND RESULTS	11
4.1 RF OUTPUT POWER.....	11
4.3 MODULATION CHARACTERISTIC:	16
4.4 OCCUPIED BANDWIDTH & EMISSION MASK:	20
4.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS:	25
4.6 RADIATED SPURIOUS EMISSIONS:	34
4.7 FREQUENCY STABILITY	40
5- TEST SETUP PHOTOGRAPHS	43
6. EUT PHOTOGRAPHS	44

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230633404-00B	Original Report	2023/9/16

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

Product Name:	Amateur Radio
Test Model:	UV-19R
Multiple Models:	BF-19R, UV-19H, UV-19M, UV-19L
Rated Input Voltage:	DC 7.4V from battery, DC 5V charging from USB (Note: EUT only support USB charging)
Serial Number:	26SR-1
EUT Received Date:	2023/6/13
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.	

Accessory Information:

No.

Operation Frequency And Test Channel:

Operation Modes	Operation Frequency Range (MHz)	Test Frequency (MHz)
VHF Transmit	144-148	136.0125, 147.9875
UHF Transmit	420-450	420.0125, 435, 449.9875

1.2 Technical Specification

Operation Frequency Range (MHz):	Transmit:	144-148, 420-450
	Receive:	136-174, 400-520
Rated RF Output Power (Conducted) (W):	High Power Level:4, Low Power Level :1.3	
Modulation Type:	F3E	
Channel Spacing (kHz):	12.5/25	

1.3 Description of Test Configuration

1.3.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer [▲] .
Equipment Modifications:	No
EUT Exercise Software:	No

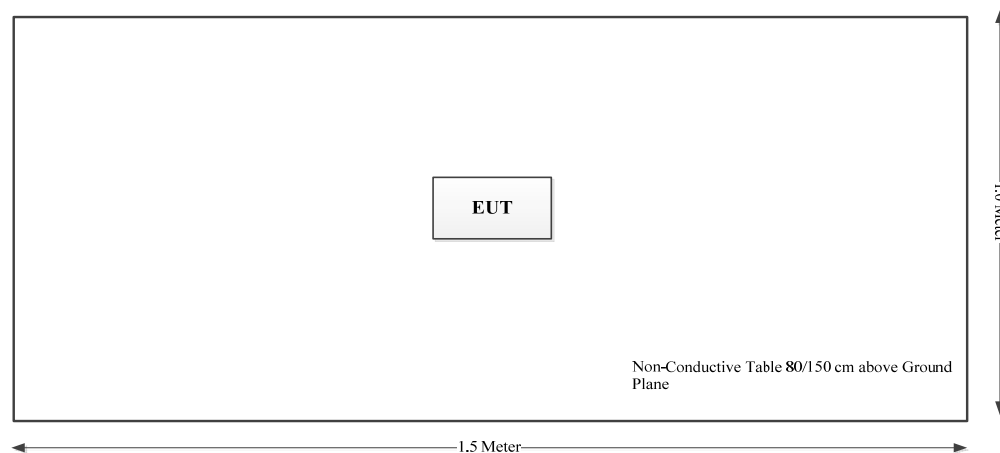
1.3.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Fenfei	Coaxial Load	N-J-10W	21113006002

1.3.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.3.4 Block Diagram of Test Setup



1.4 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	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{dB}$
Unwanted Emissions, radiated	30MHz ~ 1GHz: 5.85 dB 1G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	$\pm 1.5\text{ dB}$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1307 §2.1093	RF Exposure	Compliance*
§2.1046 §97.313	RF Output Power	Compliance
§2.1047	Modulation Characteristic	Compliance
§2.1049 §97.305; §97.307	Occupied Bandwidth	Compliance
§2.1051 §97.307	Spurious Emission at Antenna Terminal	Compliance
§2.1053 §97.307	Spurious Radiated Emissions	Compliance
§2.1055	Frequency Stability	Compliance

Note:

Compliance*: Please refer to the SAR report NO. : CR230633404-20.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 RF OUTPUT POWER

3.1.1 Applicable Standard

FCC §2.1046, §97.313

3.1.2 Test Procedure

Conducted RF Output Power:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Spectrum Analyzer Setting:

R B/W	Video B/W
100 kHz	300 kHz

3.2 MODULATION CHARACTERISTIC:

3.2.1 Applicable Standard

FCC §2.1047

- (a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.
- (b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

3.2.2 Test Procedure

Test Method: TIA-603-E 2.2.3

3.3 OCCUPIED BANDWIDTH & EMISSION MASK:

3.3.1 Applicable Standard

FCC §2.1049, §97.305 and §97.307

3.3.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 100 Hz or 300 Hz and the spectrum was recorded in the frequency band ± 50 kHz from the carrier frequency.

3.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS:

3.4.1 Applicable Standard

FCC §2.1051, and §97.307

3.4.2 Test Procedure

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

3.5 RADIATED SPURIOUS EMISSIONS:

3.5.1 Applicable Standard

FCC §2.1053, and §97.307

3.5.2 Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001)-the absolute level

3.6 FREQUENCY STABILITY:

3.6.1 Applicable Standard

FCC §2.1055

3.6.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

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

4. Test DATA AND RESULTS

4.1 RF OUTPUT POWER

Serial Number:	26SR-1	Test Date:	2023/09/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

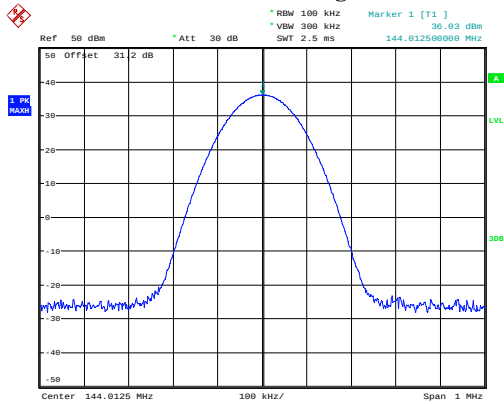
Temperature: (°C)	26.9	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

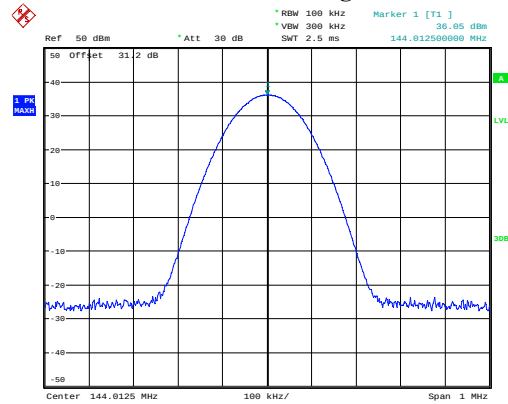
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2023/03/31	2024/03/30

* 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).

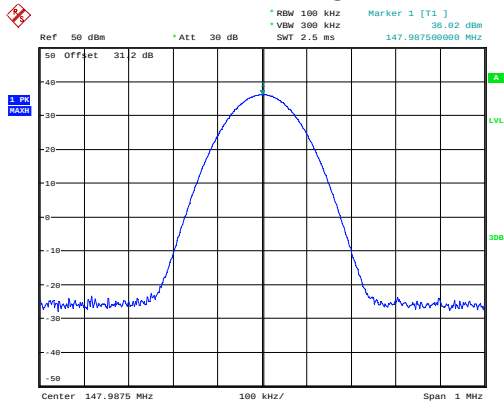
Channel Separation	Test Frequency	Reading (dBm)	
	MHz	High Power Level	Low Power Level
12.5kHz	144.0125	36.03	30.46
	147.9875	36.02	31.57
	420.0125	36.09	31.76
	435	35.60	31.68
	449.9875	35.81	31.95
25kHz	144.0125	36.05	30.51
	147.9875	36.01	31.63
	420.0125	36.05	31.76
	435	35.71	31.77
	449.9875	35.81	31.90

FM, 12.5kHz
144.0125 MHz High Power

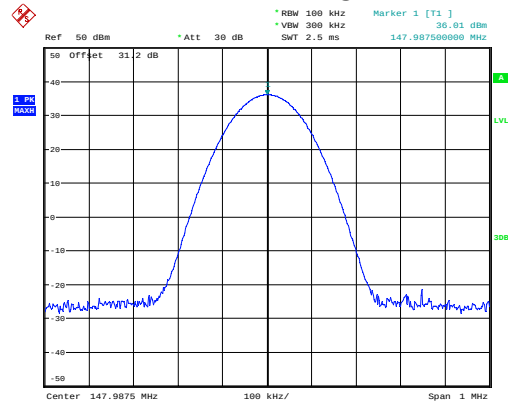
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 08:51:39

FM, 25kHz
144.0125 MHz High Power

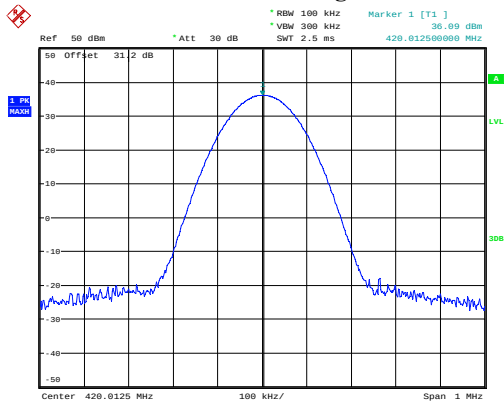
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 08:53:02

147.9875MHz High Power

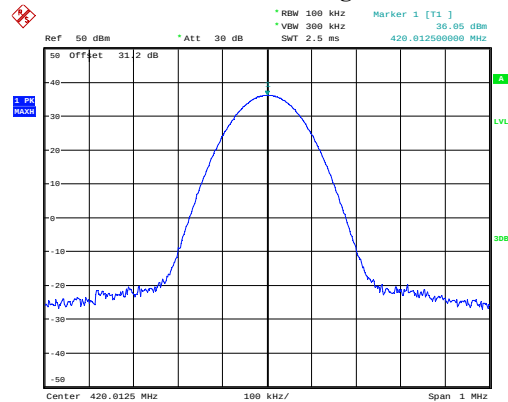
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Date: 14.SEP.2023 08:54:51

147.9875 MHz High Power

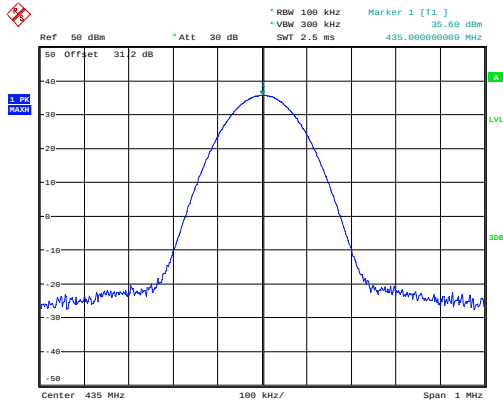
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 08:55:57

420.0125 MHz High Power

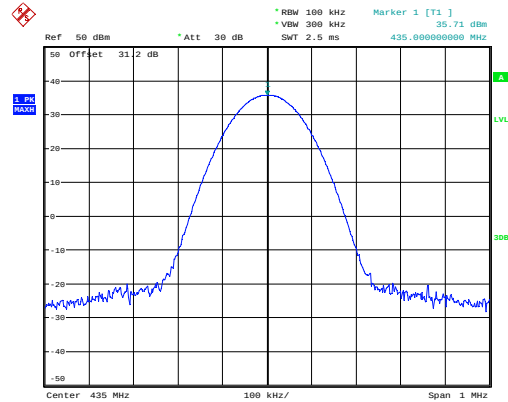
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Date: 14.SEP.2023 08:57:27

420.0125 MHz High Power

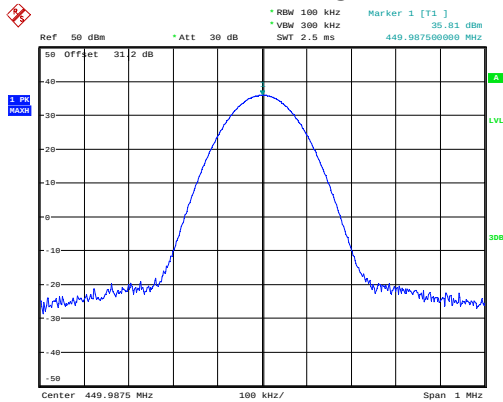
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Date: 14.SEP.2023 08:59:37

**FM, 12.5kHz
435 MHz High Power**

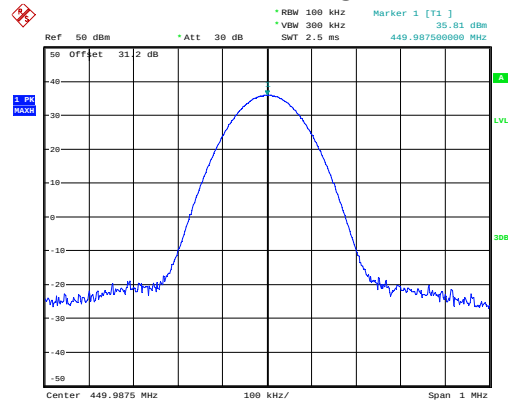
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:01:40

**FM, 25kHz
435 MHz High Power**

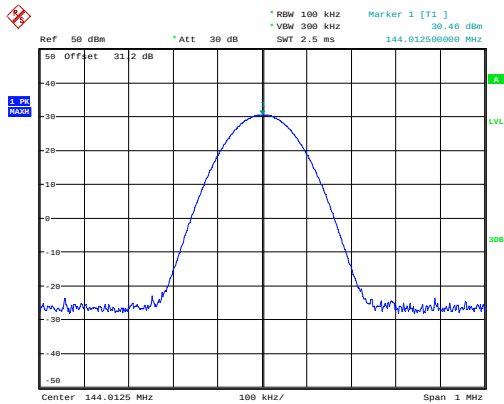
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:02:57

449.9875 MHz High Power

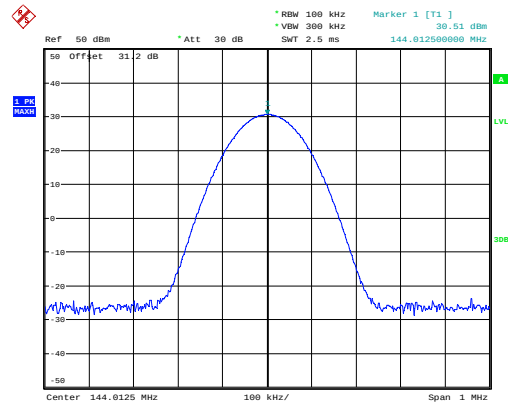
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:05:48

449.9875 MHz High Power

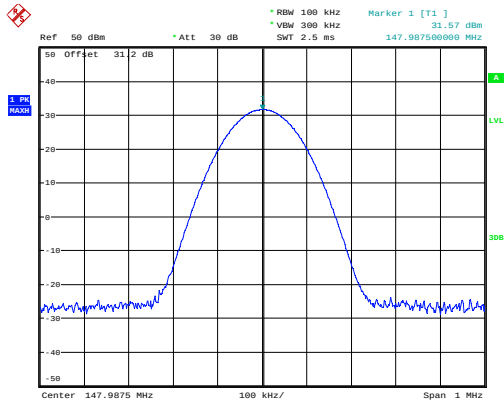
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Date: 14.SEP.2023 09:07:28

FM, 12.5kHz
144.0125 MHz Low Power

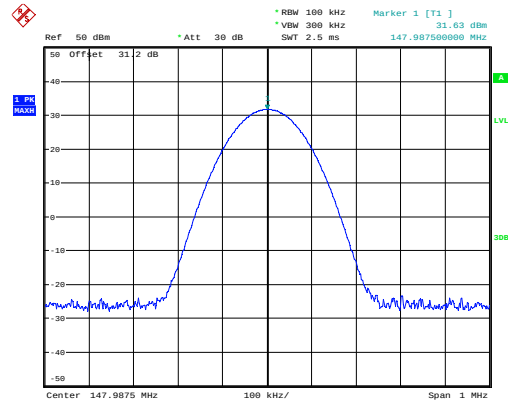
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Date: 14.SEP.2023 08:52:17

FM, 25kHz
144.0125 MHz Low Power

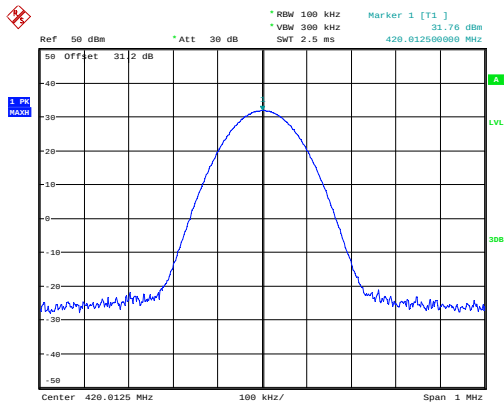
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 08:53:34

147.9875MHz Low Power

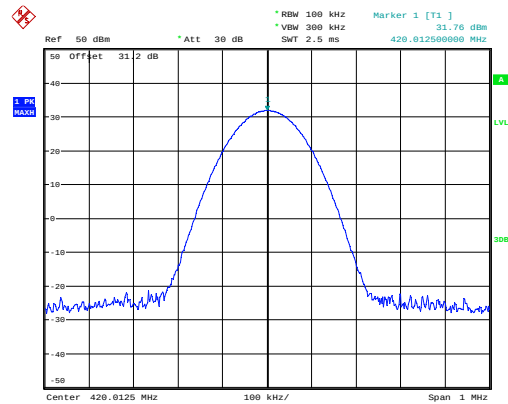
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Date: 14.SEP.2023 08:55:19

147.9875 MHz Low Power

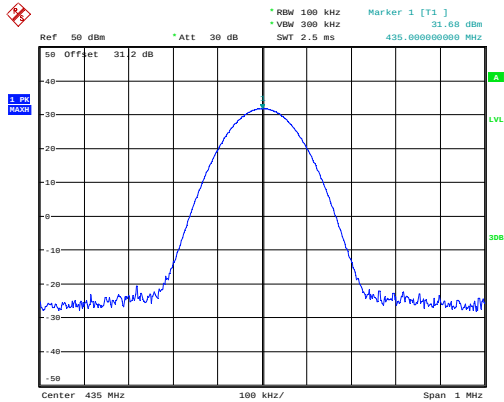
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Date: 14.SEP.2023 08:56:32

420.0125 MHz Low Power

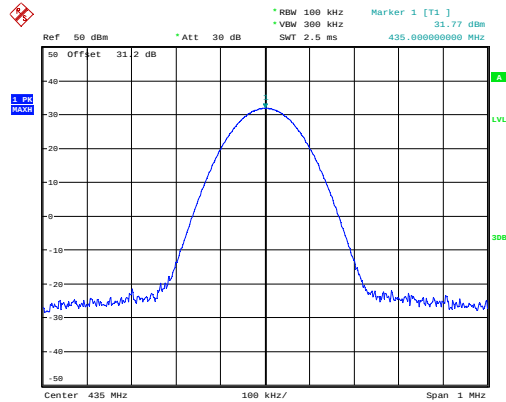
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 08:58:55

420.0125 MHz Low Power

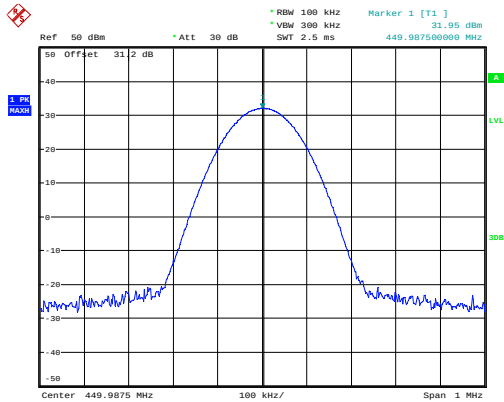
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:00:41

**FM, 12.5kHz
435 MHz Low Power**

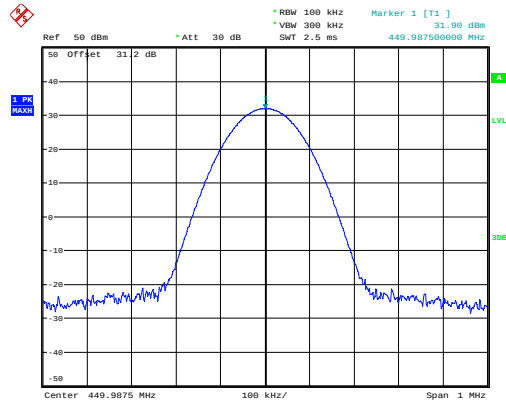
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:02:13

**FM, 25kHz
435 MHz Low Power**

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:03:33

449.9875 MHz Low Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:06:53

449.9875 MHz Low Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 09:08:26

4.3 MODULATION CHARACTERISTIC:

Serial Number:	26SR-1	Test Date:	2023/09/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

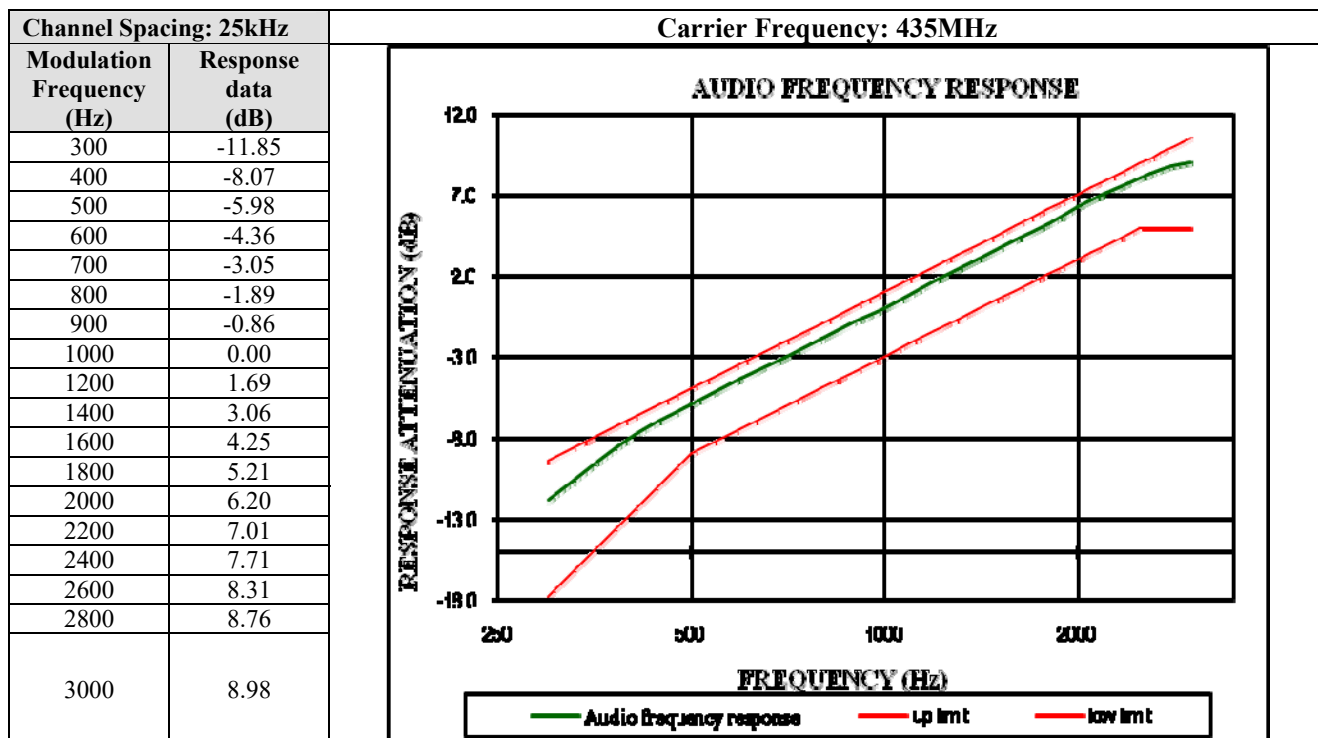
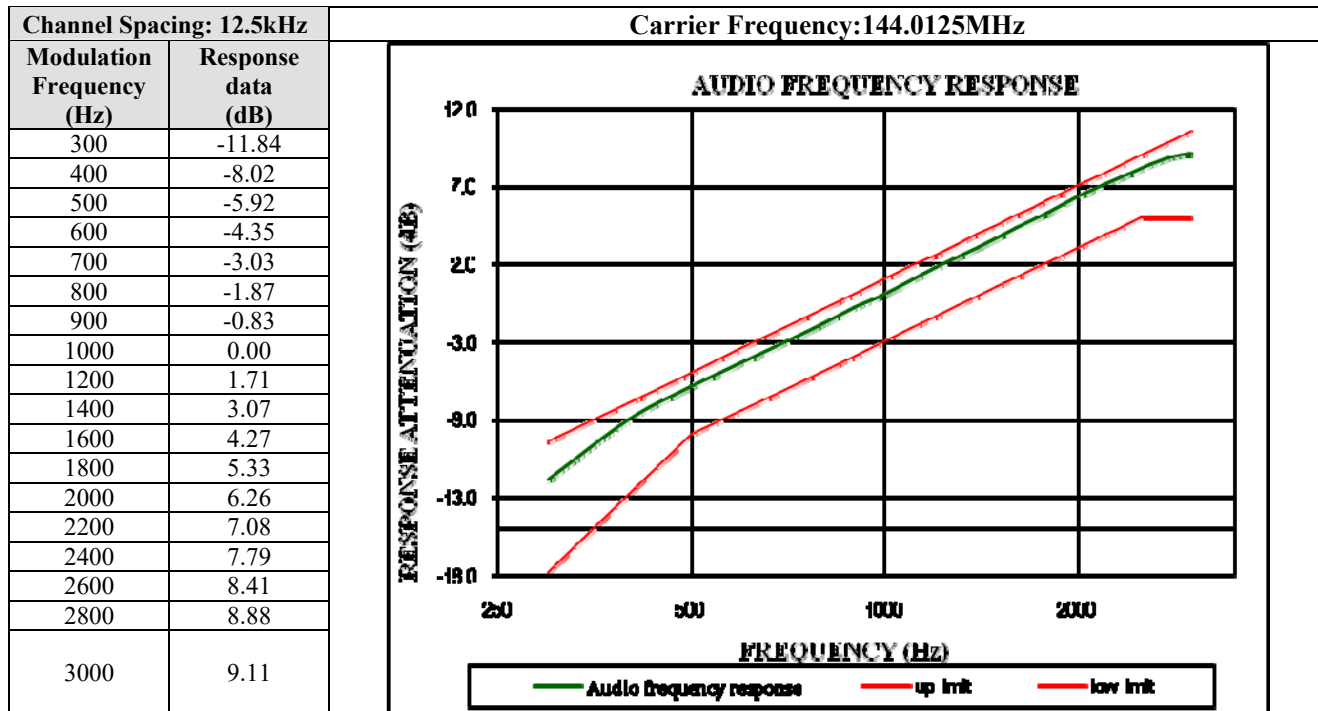
Environmental Conditions:					
Temperature: (°C)	26.9	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2023/3/31	2024/3/30

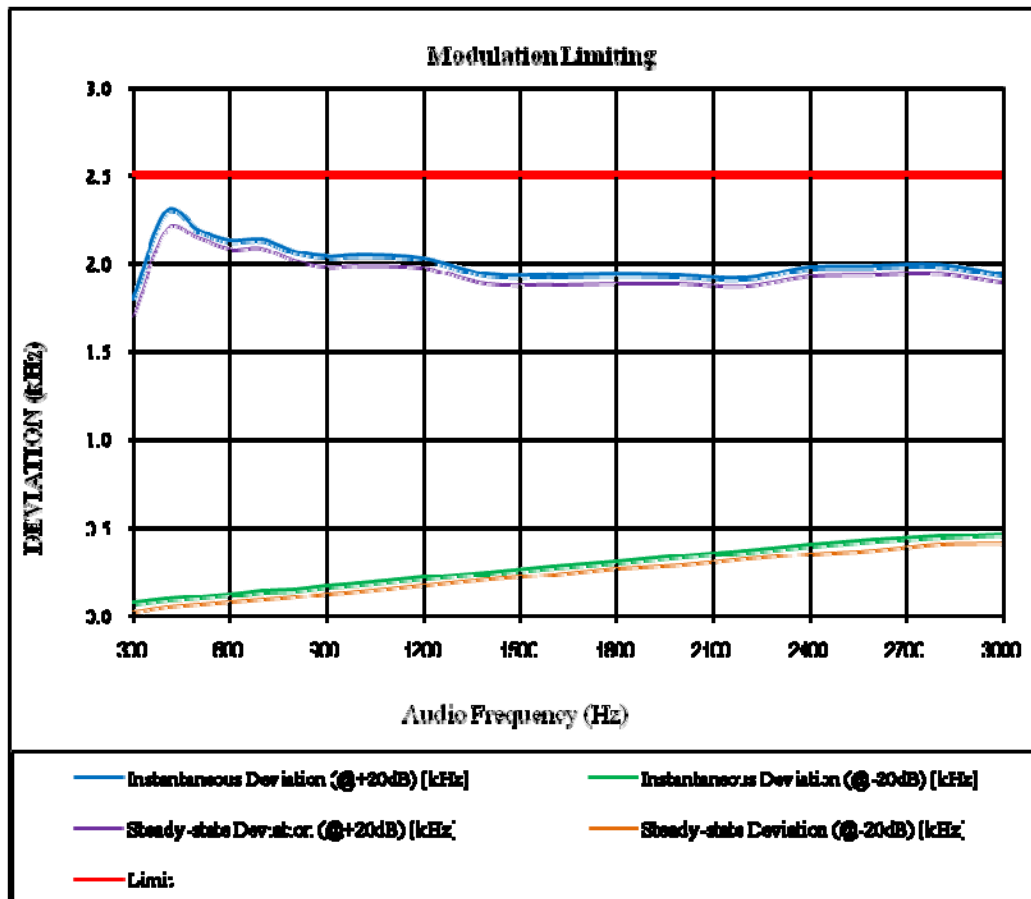
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Audio Frequency Response – High Power

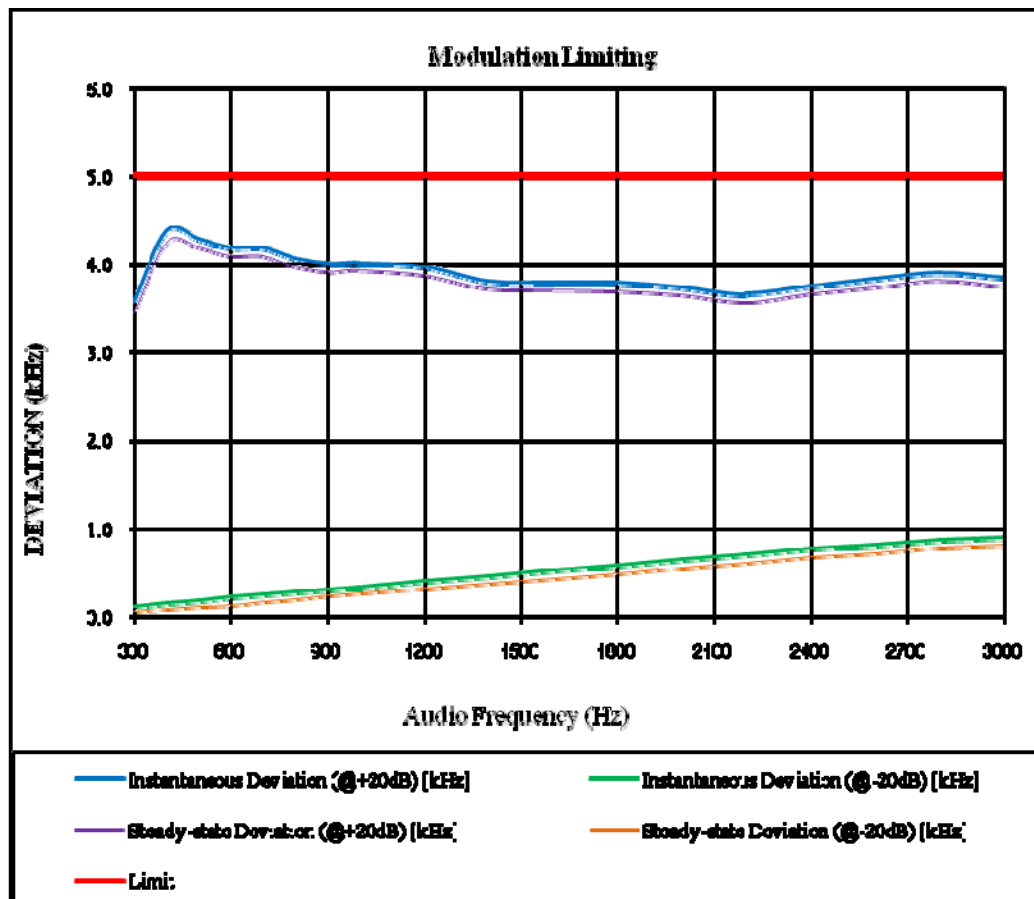


Modulation Limiting – High Power

Carrier Frequency:	144.0125	MHz			
Channel Separation:	12.5	kHz			
Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [kHz]
	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	
300	1.794	0.071	1.691	0.025	2.5
400	2.293	0.093	2.190	0.048	2.5
500	2.190	0.106	2.145	0.062	2.5
600	2.129	0.121	2.084	0.079	2.5
700	2.133	0.137	2.089	0.094	2.5
800	2.066	0.149	2.017	0.107	2.5
900	2.035	0.168	1.982	0.125	2.5
1000	2.043	0.181	1.989	0.139	2.5
1200	2.023	0.213	1.975	0.172	2.5
1400	1.935	0.245	1.888	0.205	2.5
1600	1.930	0.274	1.884	0.233	2.5
1800	1.936	0.305	1.888	0.267	2.5
2000	1.930	0.337	1.885	0.290	2.5
2200	1.918	0.368	1.872	0.323	2.5
2400	1.974	0.397	1.926	0.354	2.5
2600	1.982	0.424	1.937	0.371	2.5
2800	1.989	0.446	1.942	0.405	2.5
3000	1.938	0.461	1.895	0.413	2.5



Carrier Frequency:	435	MHz			
Channel Separation:	25	kHz			
Audio Frequency (Hz)	Instantaneous		Steady-state		Limit [kHz]
	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	Deviation (@+20dB) [kHz]	Deviation (@-20dB) [kHz]	
300	3.568	0.112	3.435	0.041	5
400	4.378	0.153	4.247	0.083	5
500	4.286	0.187	4.192	0.118	5
600	4.183	0.218	4.096	0.130	5
700	4.184	0.247	4.092	0.171	5
800	4.060	0.277	3.973	0.202	5
900	4.003	0.309	3.911	0.236	5
1000	4.010	0.337	3.928	0.265	5
1200	3.969	0.396	3.874	0.316	5
1400	3.805	0.459	3.717	0.381	5
1600	3.792	0.520	3.709	0.435	5
1800	3.786	0.584	3.693	0.488	5
2000	3.741	0.647	3.648	0.557	5
2200	3.660	0.709	3.575	0.611	5
2400	3.755	0.765	3.661	0.678	5
2600	3.826	0.817	3.732	0.720	5
2800	3.901	0.866	3.816	0.779	5
3000	3.843	0.897	3.755	0.812	5



4.4 OCCUPIED BANDWIDTH & EMISSION MASK:

Serial Number:	26SR-1	Test Date:	2023/09/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

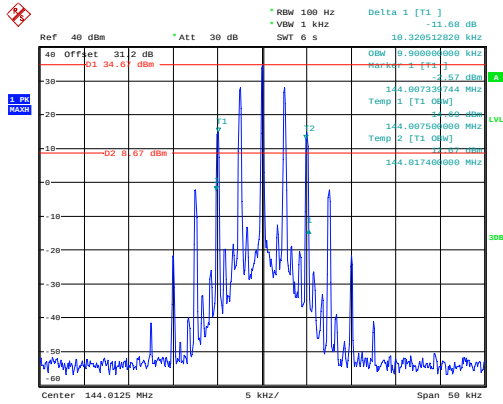
Environmental Conditions:					
Temperature: (°C)	26.9	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.1

Test Equipment List and Details:

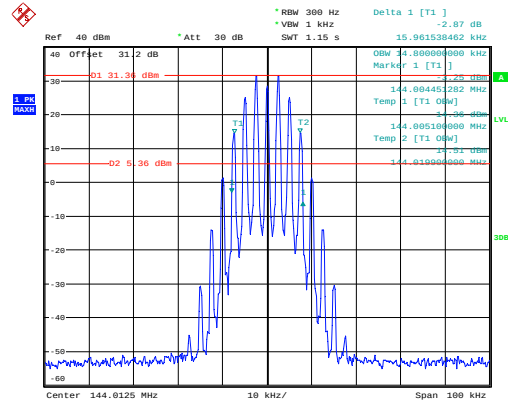
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2023/03/31	2024/03/30

* 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).

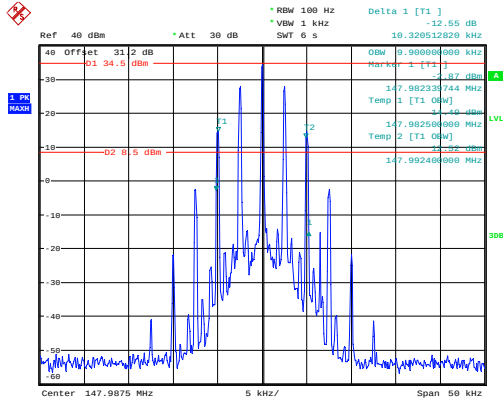
Test Mode	Test Frequency (MHz)	High Power Level		Low Power Level	
		99% Occupied Bandwidth (kHz)	26dB Emission Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	26dB Emission Bandwidth (kHz)
FM 12.5kHz	144.0125	9.900	10.321	9.900	10.321
	147.9875	9.900	10.321	9.900	10.321
	420.0125	9.900	10.240	9.900	10.240
	435	9.900	10.240	9.900	10.240
	449.9875	9.900	10.240	9.900	10.240
FM 25kHz	144.0125	14.800	15.962	14.800	15.962
	147.9875	14.800	15.962	14.800	15.865
	420.0125	14.800	15.994	14.800	15.833
	435	14.800	15.865	14.800	15.833
	449.9875	14.800	15.833	14.800	15.833

FM, 12.5kHz
144.0125 MHz High Power

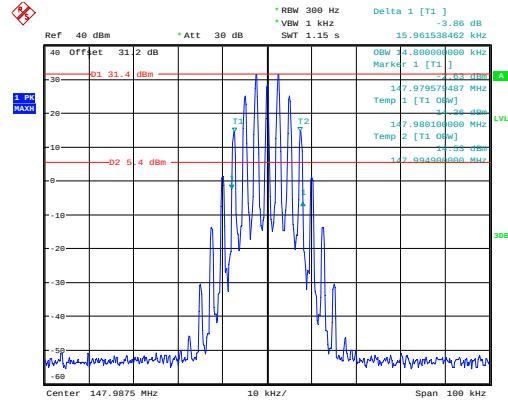
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:01:40

FM, 25kHz
144.0125 MHz High Power

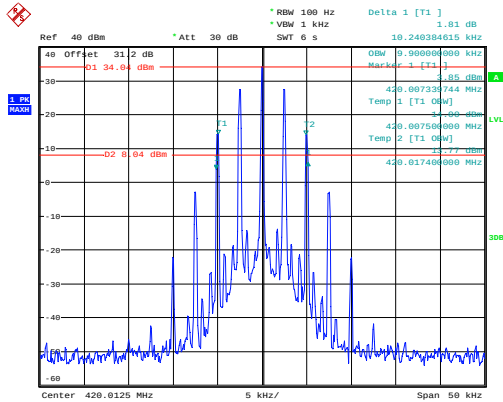
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:29:00

147.9875 MHz High Power

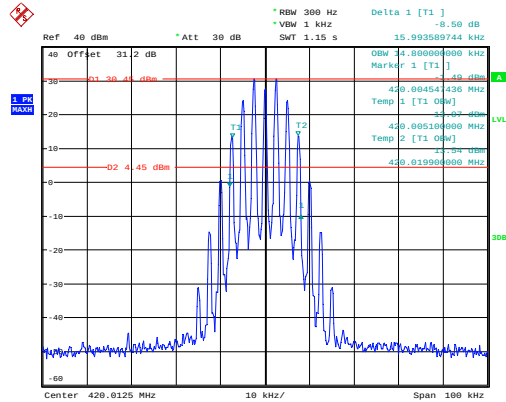
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:13:21

147.9875 MHz High Power

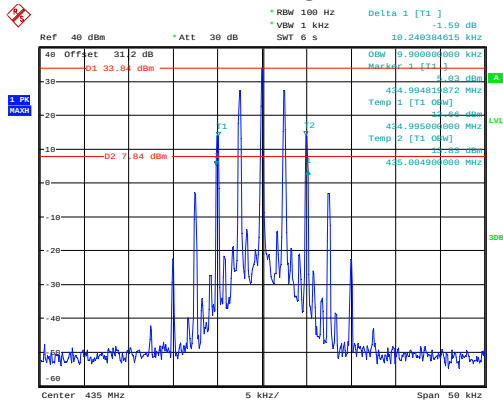
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:36:58

FM, 12.5kHz
420.0125 MHz High Power

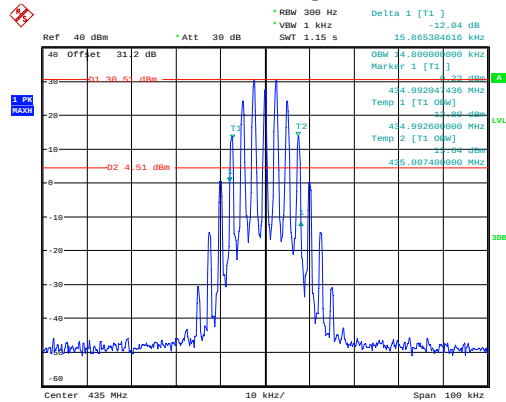
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:17:13

FM, 25kHz
420.0125 MHz High Power

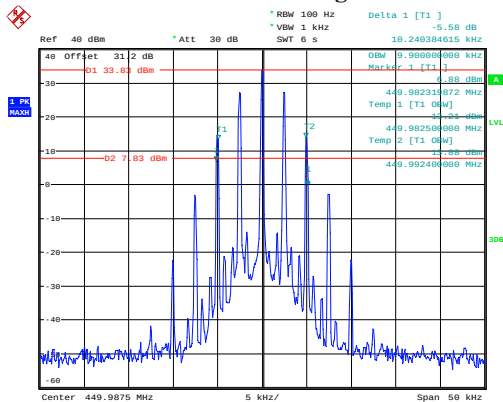
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435MHz High Power

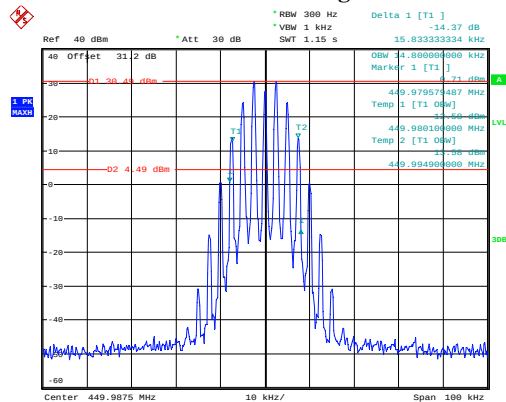
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:20:44

435 MHz High Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:46:17

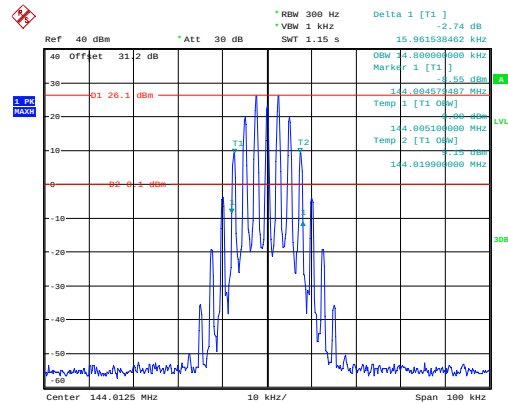
449.9875 MHz High Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:24:11

449.9875 MHz High Power

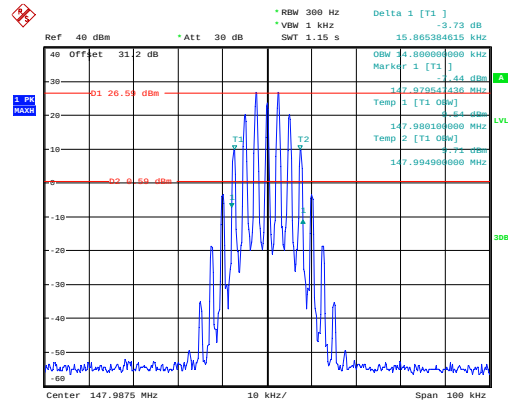
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:48:51

FM, 25kHz
144.0125 MHz Low Power

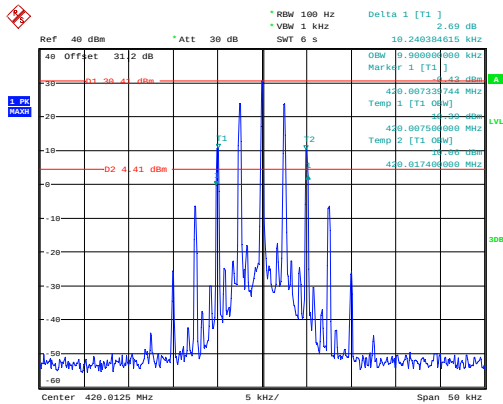


ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:33:14

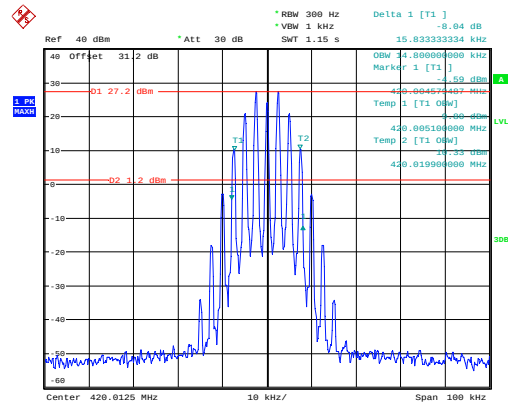
147.975 MHz Low Power



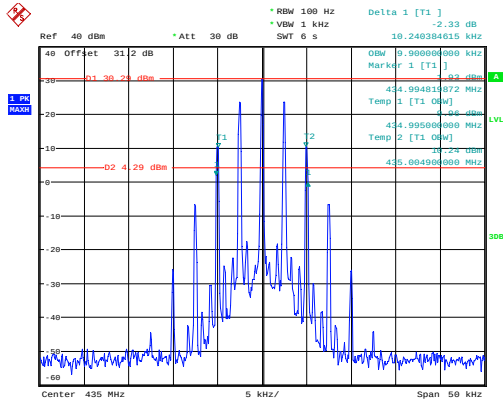
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:41:44

FM, 12.5kHz
420.0125 MHz Low Power

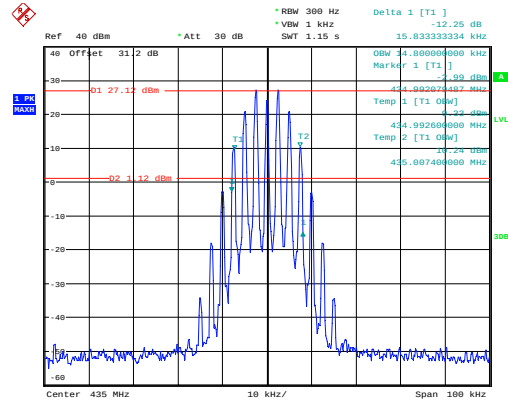
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Date: 14.SEP.2023 10:19:04

FM, 25kHz
420.0125 MHz Low Power

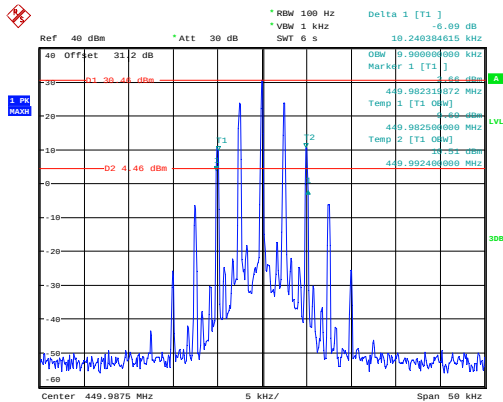
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Date: 14.SEP.2023 10:44:32

435MHz Low Power

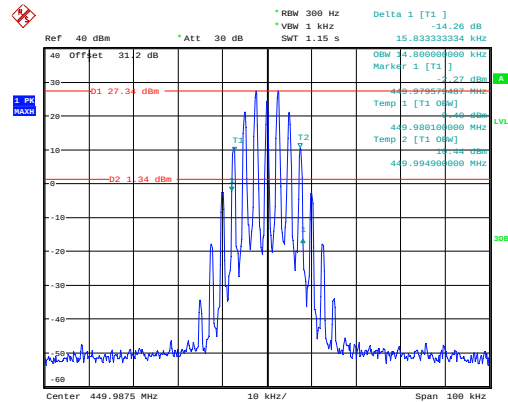
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:22:24

435 MHz Low Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:47:27

449.9875 MHz Low Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:25:34

449.9875 MHz Low Power

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 10:50:11

4.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS:

Serial Number:	26SR-1	Test Date:	2023/09/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.9	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.1
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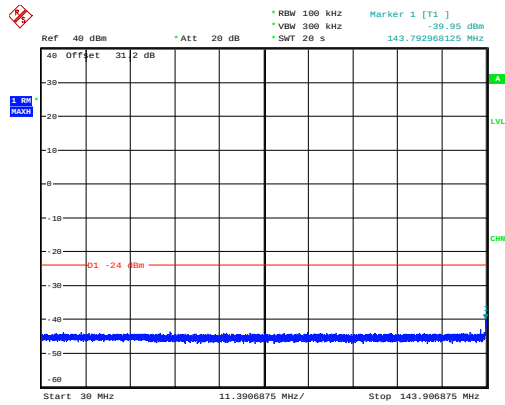
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/03/31	2024/03/30
UNI-T	Multimeter	UT39A+	C210582554	2022/09/29	2023/09/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

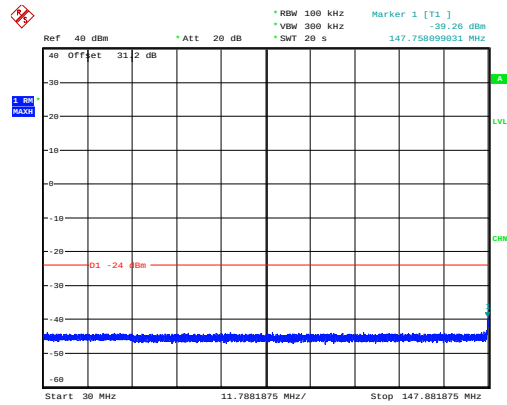
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

FM, 12.5kHz, High Power Level:

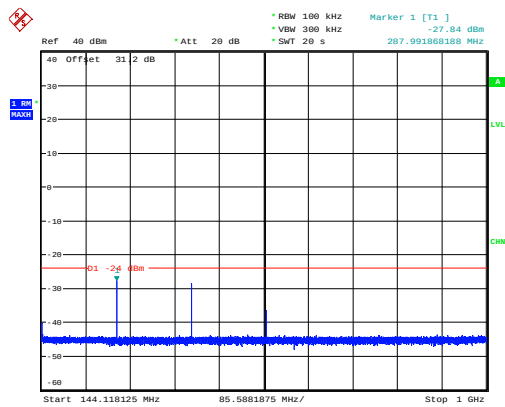
144.0125MHz



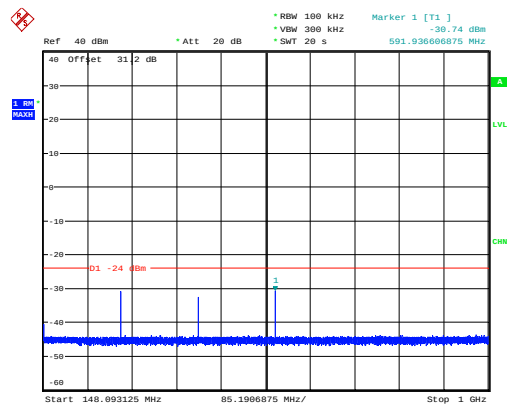
147.9875 MHz



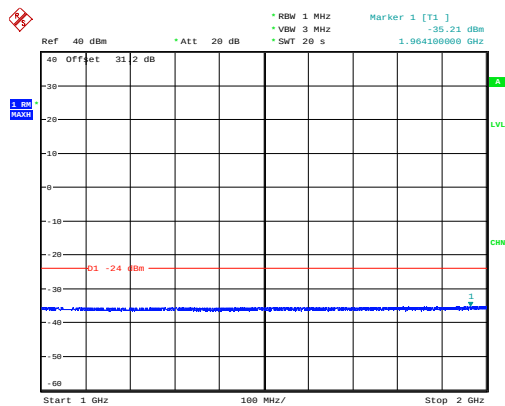
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Date: 14.SEP.2023 11:36:12



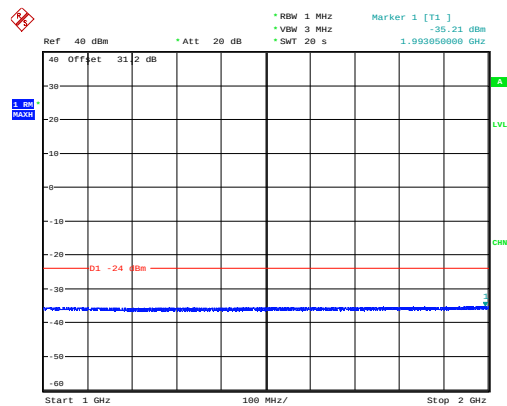
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ProjectNo.:CR230633404-RF Tester:Morpheus Shi
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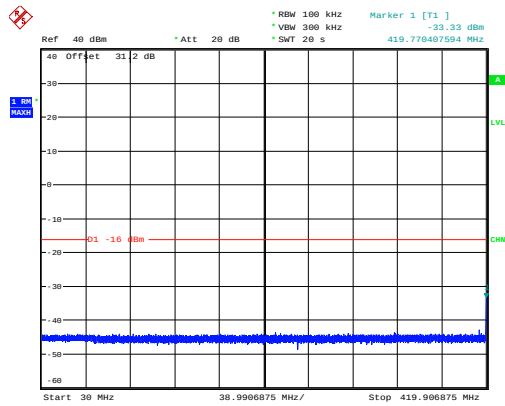
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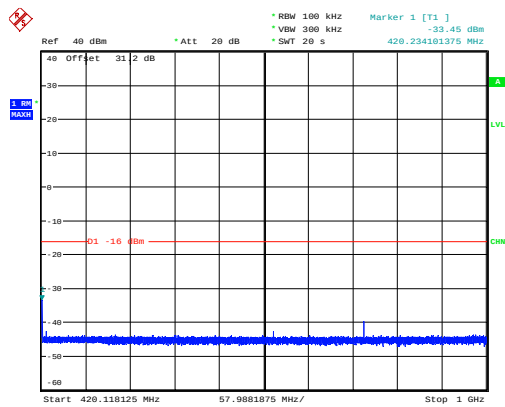
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Date: 14.SEP.2023 11:48:57

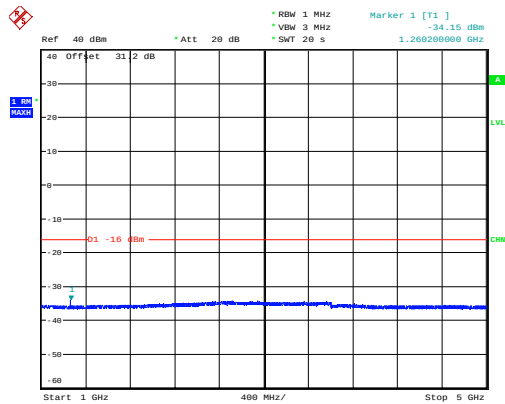
420.0125MHz



ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 11:57:56

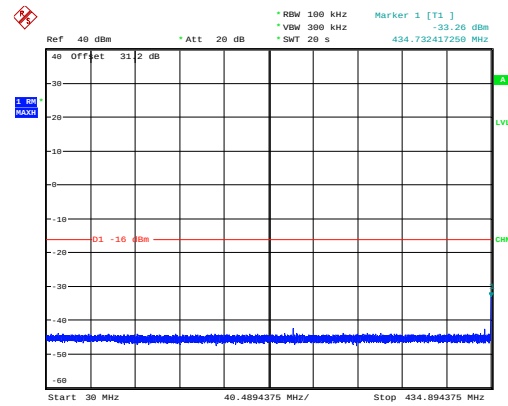


ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 11:58:52

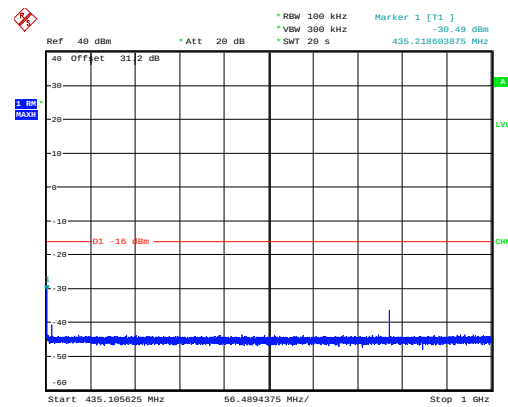


ProjectNo.:CR230633404-RF Tester:Morpheus Shi
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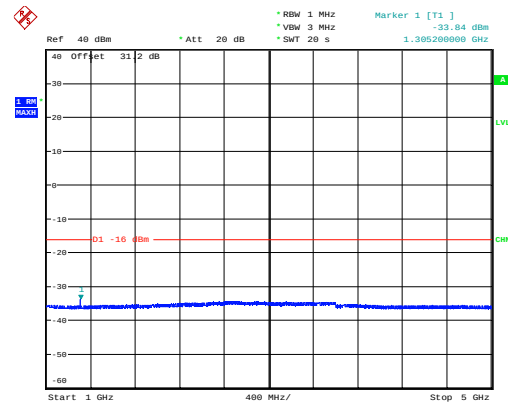
435 MHz



ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 13:05:23

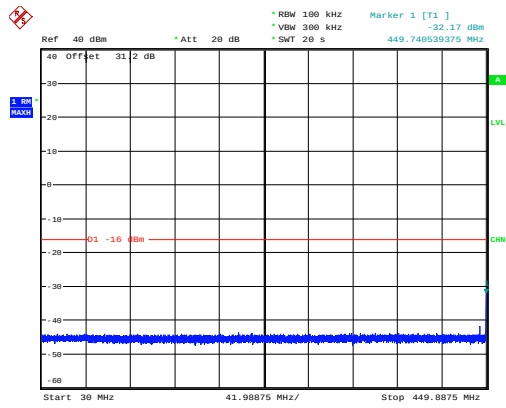


ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 16.SEP.2023 15:10:06

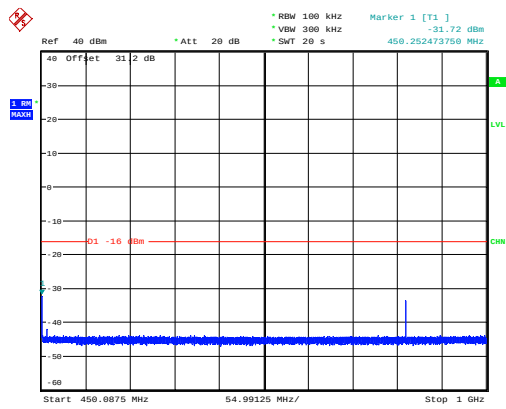


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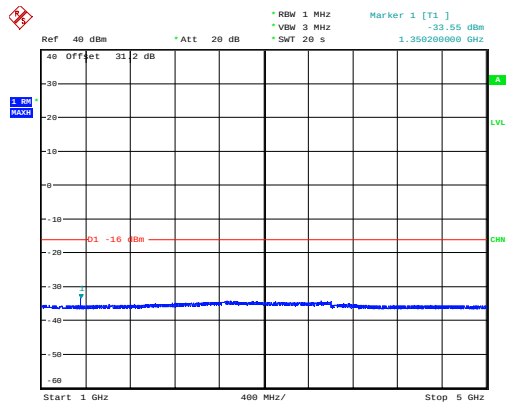
449.9875MHz



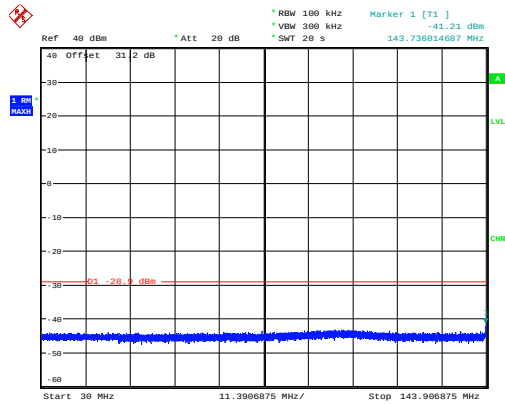
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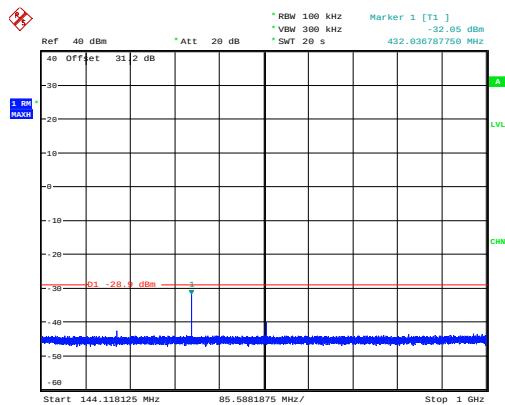
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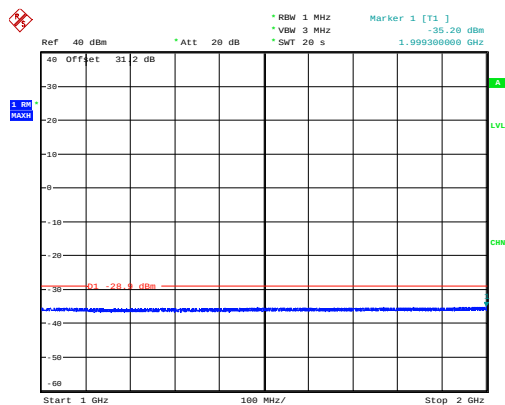
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 13:16:37

**FM, 12.5kHz, Low Power Level:
144.0125MHz**

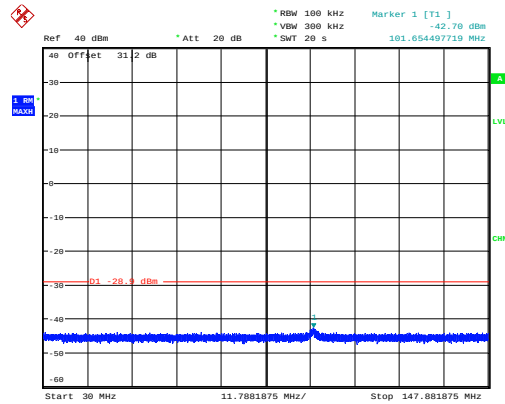
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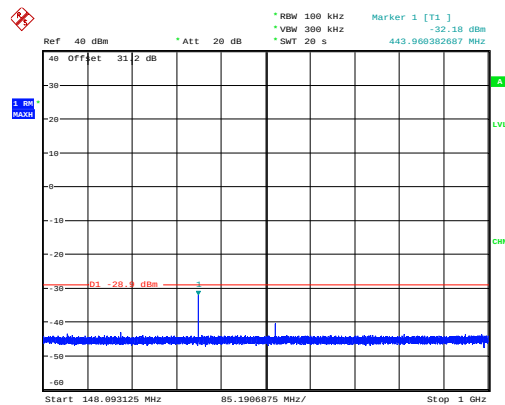
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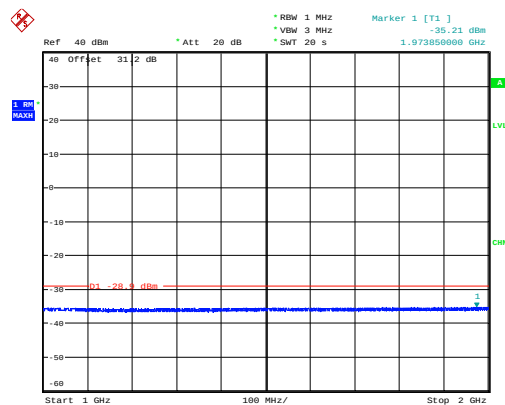
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 13:59:14

147.9875 MHz

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:14:03



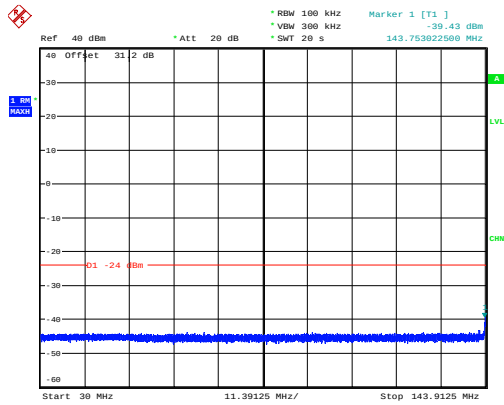
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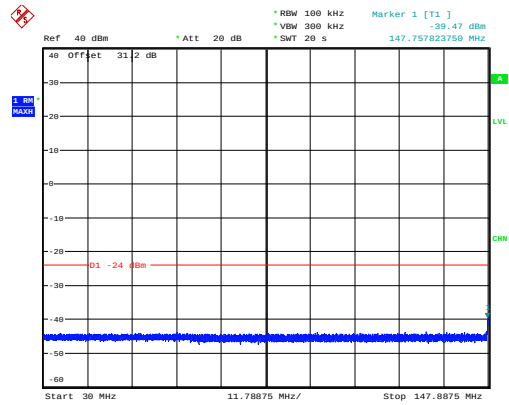
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:09:27

FM, 25kHz, High Power Level:

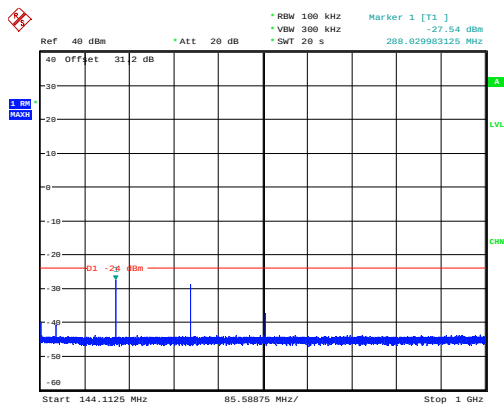
144.0125MHz



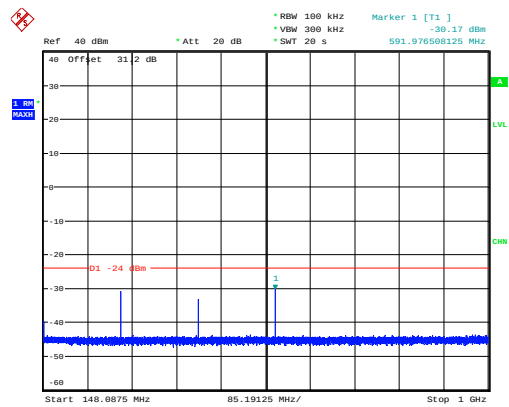
147.9875 MHz



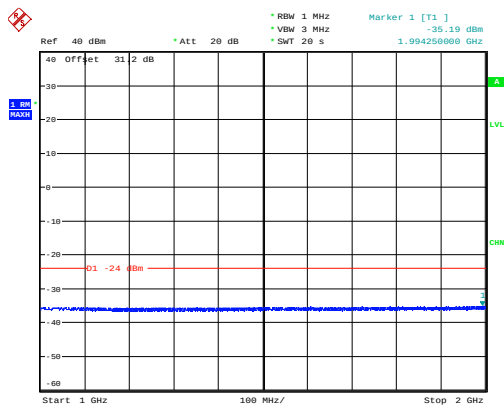
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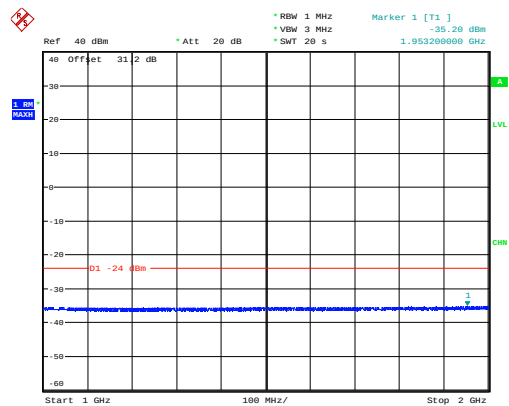
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ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 11:41:51



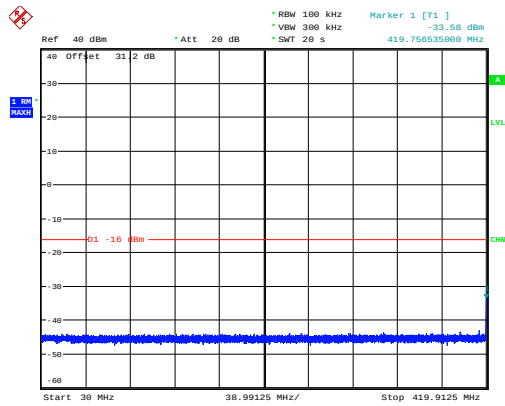
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ProjectNo.:CR230633404-RF Tester:Morpheus Shi
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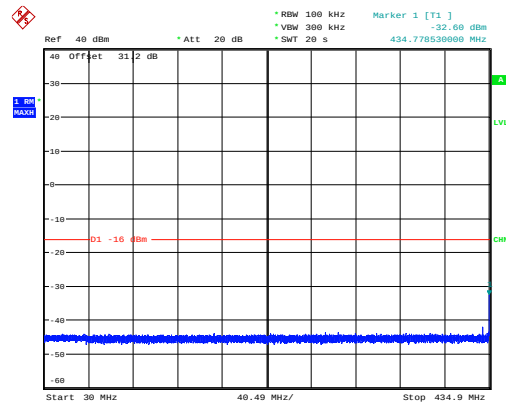
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Date: 14.SEP.2023 11:54:09

420.0125MHz

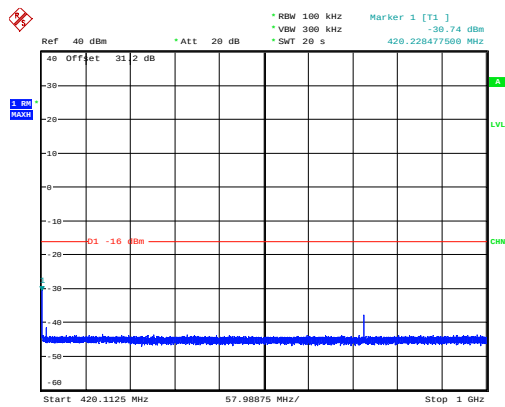


ProjectNo.: CR230633404-RF Tester: Morpheus Shi
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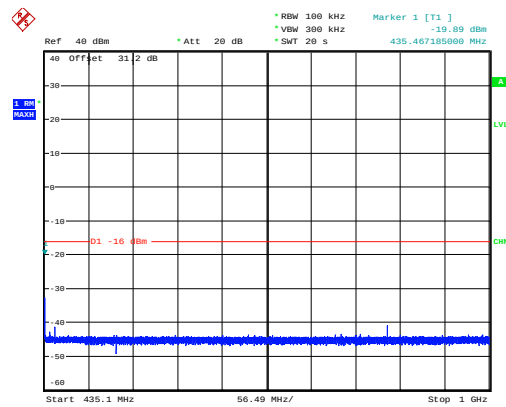
435 MHz



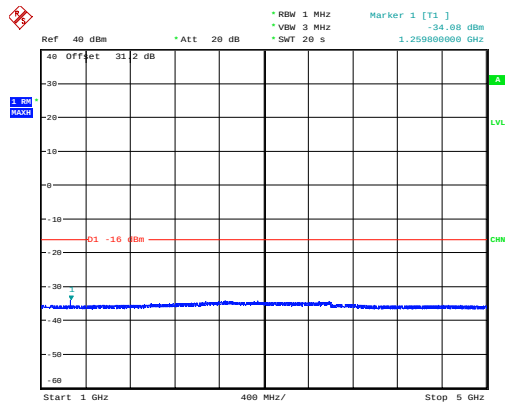
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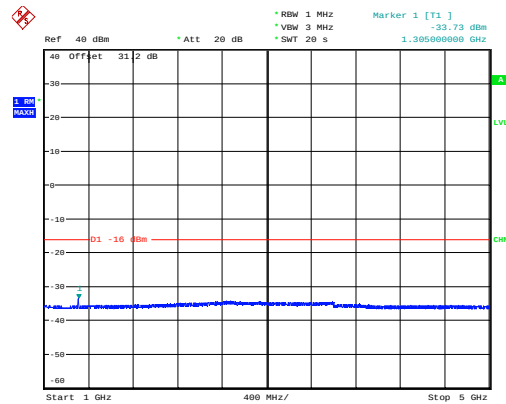
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Date: 16.SEP.2023 15:01:40



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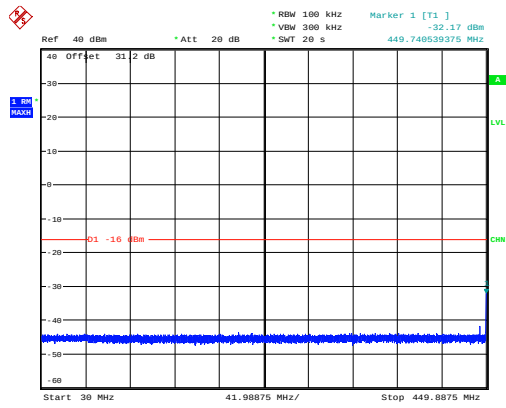


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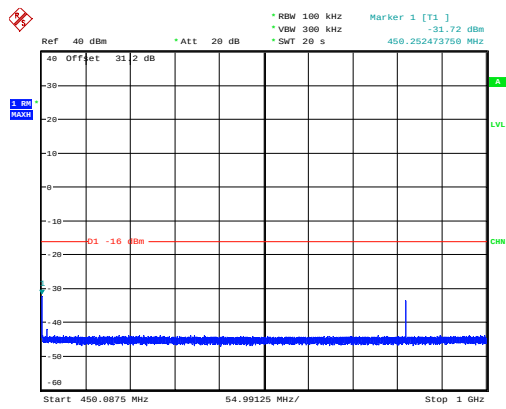


ProjectNo.: CR230633404-RF Tester: Morpheus Shi
Date: 14.SEP.2023 13:10:50

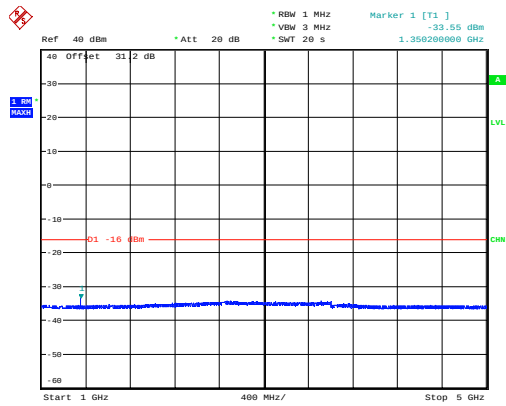
449.9875MHz



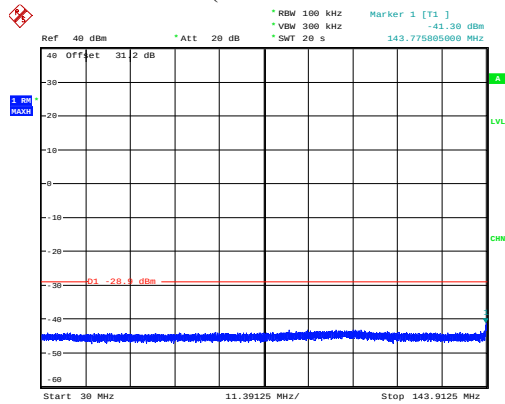
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 13:15:01



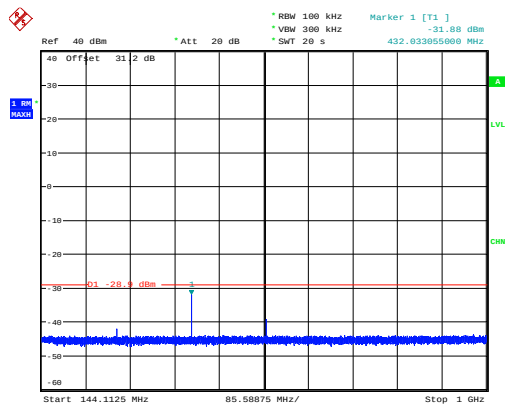
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Date: 14.SEP.2023 13:15:48



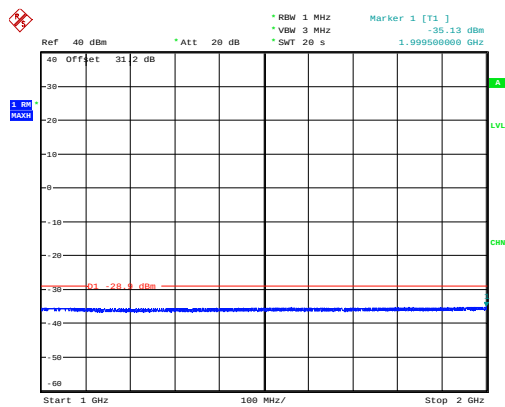
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 13:16:37

FM, 25kHz, Low Power Level:**144.0125MHz (all emission under -23dBm limit)**

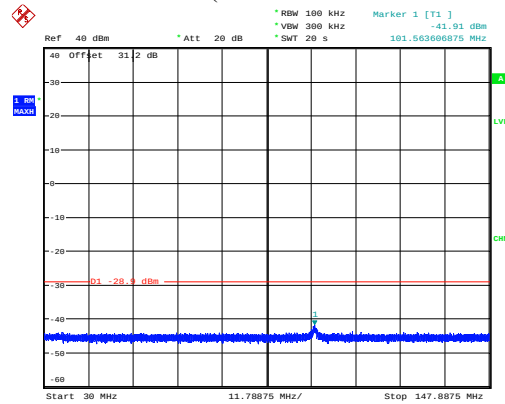
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Date: 14.SEP.2023 14:01:02



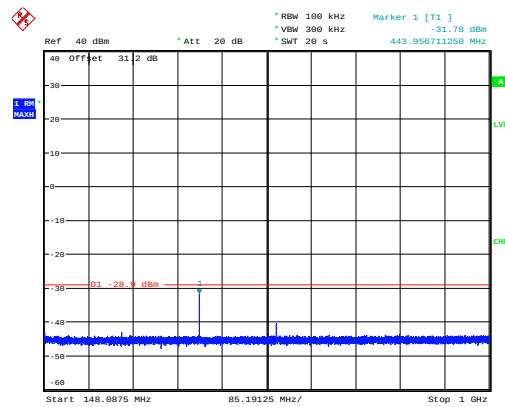
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:02:22



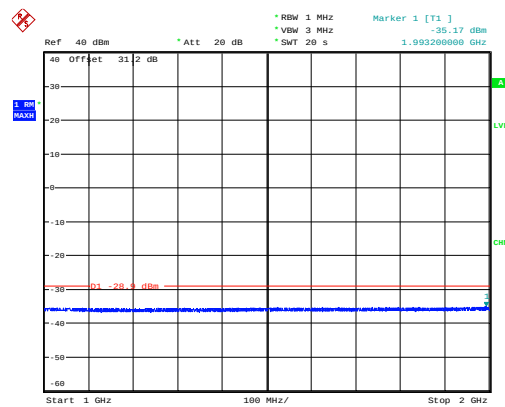
ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:03:11

147.9875 MHz (all emission under -23dBm limit)

ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:11:17



ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:12:09



ProjectNo.:CR230633404-RF Tester:Morpheus Shi
Date: 14.SEP.2023 14:12:55

4.6 RADIATED SPURIOUS EMISSIONS:

Serial Number:	26SR-1	Test Date:	2023/06/25~2023/06/26
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Vic Du,coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~27.1	Relative Humidity: (%)	60~69	ATM Pressure: (kPa)	100.2~100.5
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2023/03/31	2024/03/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/07/16	2024/07/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/07/16	2024/07/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/16	2024/07/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
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	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17

*** 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).

30MHz - 5GHz:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM 12.5kHz, Frequency: 144.0125MHz								
288.025	H	17.03	-62.70	0.00	0.33	-63.03	-24.00	39.03
288.025	V	18.36	-59.76	0.00	0.33	-60.09	-24.00	36.09
432.038	H	17.50	-59.72	0.00	0.40	-60.12	-24.00	36.12
432.038	V	17.99	-56.29	0.00	0.40	-56.69	-24.00	32.69
576.050	H	21.40	-52.93	0.00	0.46	-53.39	-24.00	29.39
576.050	V	27.16	-44.53	0.00	0.46	-44.99	-24.00	20.99
720.063	H	20.14	-52.77	0.00	0.49	-53.26	-24.00	29.26
720.063	V	20.23	-49.25	0.00	0.49	-49.74	-24.00	25.74
864.075	H	19.90	-49.78	0.00	0.57	-50.35	-24.00	26.35
864.075	V	19.34	-47.37	0.00	0.57	-47.94	-24.00	23.94
1008.088	H	41.10	-62.45	7.12	0.64	-55.97	-23.00	32.97
1008.088	V	40.78	-63.00	7.12	0.64	-56.52	-23.00	33.52
1152.100	H	46.91	-55.38	7.53	0.61	-48.46	-23.00	25.46
1152.100	V	43.25	-59.66	7.53	0.61	-52.74	-23.00	29.74
1296.113	H	39.58	-63.16	7.93	0.70	-55.93	-23.00	32.93
1296.113	V	42.66	-60.55	7.93	0.70	-53.32	-23.00	30.32
1440.125	H	47.88	-55.72	8.33	0.74	-48.13	-23.00	25.13
1440.125	V	44.32	-59.35	8.33	0.74	-51.76	-23.00	28.76
FM 25kHz, Frequency:144.0125MHz								
288.025	H	17.53	-62.20	0.00	0.33	-62.53	-24.00	38.53
288.025	V	16.79	-61.33	0.00	0.33	-61.66	-24.00	37.66
432.038	H	18.82	-58.40	0.00	0.40	-58.80	-24.00	34.80
432.038	V	18.50	-55.78	0.00	0.40	-56.18	-24.00	32.18
576.050	H	20.92	-53.41	0.00	0.46	-53.87	-24.00	29.87
576.050	V	27.09	-44.60	0.00	0.46	-45.06	-24.00	21.06
720.063	H	21.29	-51.62	0.00	0.49	-52.11	-24.00	28.11
720.063	V	19.59	-49.89	0.00	0.49	-50.38	-24.00	26.38
864.075	H	19.65	-50.03	0.00	0.57	-50.60	-24.00	26.60
864.075	V	19.88	-46.83	0.00	0.57	-47.40	-24.00	23.40
1008.088	H	40.81	-62.74	7.12	0.64	-56.26	-23.00	33.26
1008.088	V	39.82	-63.96	7.12	0.64	-57.48	-23.00	34.48
1152.100	H	46.25	-56.04	7.53	0.61	-49.12	-23.00	26.12
1152.100	V	44.65	-58.26	7.53	0.61	-51.34	-23.00	28.34
1296.113	H	39.81	-62.93	7.93	0.70	-55.70	-23.00	32.70
1296.113	V	42.86	-60.35	7.93	0.70	-53.12	-23.00	30.12
1440.125	H	45.37	-58.24	8.33	0.74	-50.65	-23.00	27.65
1440.125	V	41.35	-62.32	8.33	0.74	-54.73	-23.00	31.73

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM 12.5kHz, Frequency: 147.9875MHz								
295.975	H	16.98	-62.53	0.00	0.33	-62.86	-24.00	38.86
295.975	V	18.32	-59.43	0.00	0.33	-59.76	-24.00	35.76
443.963	H	18.54	-58.43	0.00	0.43	-58.86	-24.00	34.86
443.963	V	18.39	-55.41	0.00	0.43	-55.84	-24.00	31.84
591.950	H	18.75	-55.27	0.00	0.49	-55.76	-24.00	31.76
591.950	V	26.07	-45.65	0.00	0.49	-46.14	-24.00	22.14
739.938	H	19.64	-52.87	0.00	0.55	-53.42	-24.00	29.42
739.938	V	18.75	-50.30	0.00	0.55	-50.85	-24.00	26.85
887.925	H	19.18	-49.90	0.00	0.62	-50.52	-24.00	26.52
887.925	V	19.08	-47.24	0.00	0.62	-47.86	-24.00	23.86
1035.913	H	48.35	-54.63	7.20	0.65	-48.08	-23.00	25.08
1035.913	V	45.71	-57.57	7.20	0.65	-51.02	-23.00	28.02
1183.900	H	50.69	-51.98	7.61	0.66	-45.03	-23.00	22.03
1183.900	V	50.03	-53.34	7.61	0.66	-46.39	-23.00	23.39
1331.888	H	51.34	-51.70	8.03	0.76	-44.43	-23.00	21.43
1331.888	V	48.17	-55.20	8.03	0.76	-47.93	-23.00	24.93
1479.875	H	43.97	-59.52	8.44	0.76	-51.84	-23.00	28.84
1479.875	V	40.58	-63.00	8.44	0.76	-55.32	-23.00	32.32
FM 25kHz, Frequency:147.9875MHz								
295.975	H	17.03	-62.48	0.00	0.33	-62.81	-24.00	38.81
295.975	V	17.96	-59.79	0.00	0.33	-60.12	-24.00	36.12
443.963	H	17.97	-59.00	0.00	0.43	-59.43	-24.00	35.43
443.963	V	18.24	-55.56	0.00	0.43	-55.99	-24.00	31.99
591.950	H	18.76	-55.26	0.00	0.49	-55.75	-24.00	31.75
591.950	V	23.84	-47.88	0.00	0.49	-48.37	-24.00	24.37
739.938	H	18.21	-54.30	0.00	0.55	-54.85	-24.00	30.85
739.938	V	18.36	-50.69	0.00	0.55	-51.24	-24.00	27.24
887.925	H	19.87	-49.21	0.00	0.62	-49.83	-24.00	25.83
887.925	V	20.51	-45.81	0.00	0.62	-46.43	-24.00	22.43
1035.913	H	48.98	-54.00	7.20	0.65	-47.45	-23.00	24.45
1035.913	V	47.38	-55.90	7.20	0.65	-49.35	-23.00	26.35
1183.900	H	52.96	-49.71	7.61	0.66	-42.76	-23.00	19.76
1183.900	V	51.24	-52.13	7.61	0.66	-45.18	-23.00	22.18
1331.888	H	45.81	-57.23	8.03	0.76	-49.96	-23.00	26.96
1331.888	V	47.26	-56.11	8.03	0.76	-48.84	-23.00	25.84
1479.875	H	45.73	-57.76	8.44	0.76	-50.08	-23.00	27.08
1479.875	V	42.48	-61.10	8.44	0.76	-53.42	-23.00	30.42

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM 12.5kHz, Frequency:420.0125MHz								
840.025	H	18.63	-51.66	0.00	0.60	-52.26	-16.00	36.26
840.025	V	18.22	-48.88	0.00	0.60	-49.48	-16.00	33.48
1260.038	H	61.35	-41.43	7.83	0.68	-34.28	-16.00	18.28
1260.038	V	60.45	-42.90	7.83	0.68	-35.75	-16.00	19.75
1680.050	H	58.76	-45.55	8.72	0.86	-37.69	-16.00	21.69
1680.050	V	52.37	-52.05	8.72	0.86	-44.19	-16.00	28.19
2100.063	H	49.76	-52.12	9.16	0.91	-43.87	-16.00	27.87
2100.063	V	46.35	-55.48	9.16	0.91	-47.23	-16.00	31.23
2520.075	H	48.53	-52.00	9.43	1.01	-43.58	-16.00	27.58
2520.075	V	47.94	-52.59	9.43	1.01	-44.17	-16.00	28.17
2940.088	H	55.67	-43.49	10.10	1.11	-34.50	-16.00	18.50
2940.088	V	52.03	-47.23	10.10	1.11	-38.24	-16.00	22.24
3360.100	H	53.67	-43.64	10.34	1.17	-34.47	-16.00	18.47
3360.100	V	49.65	-47.56	10.34	1.17	-38.39	-16.00	22.39
3780.113	H	59.68	-36.42	10.68	1.27	-27.01	-16.00	11.01
3780.113	V	53.45	-42.50	10.68	1.27	-33.09	-16.00	17.09
4200.125	H	55.27	-40.67	10.78	1.34	-31.23	-16.00	15.23
4200.125	V	53.89	-42.02	10.78	1.34	-32.58	-16.00	16.58
FM 25kHz, Frequency: 420.0125MHz								
840.025	H	20.39	-49.90	0.00	0.60	-50.50	-16.00	34.50
840.025	V	18.66	-48.44	0.00	0.60	-49.04	-16.00	33.04
1260.038	H	60.85	-41.93	7.83	0.68	-34.78	-16.00	18.78
1260.038	V	59.64	-43.71	7.83	0.68	-36.56	-16.00	20.56
1680.050	H	58.33	-45.98	8.72	0.86	-38.12	-16.00	22.12
1680.050	V	55.56	-48.86	8.72	0.86	-41.00	-16.00	25.00
2100.063	H	48.39	-53.49	9.16	0.91	-45.24	-16.00	29.24
2100.063	V	44.66	-57.17	9.16	0.91	-48.92	-16.00	32.92
2520.075	H	47.69	-52.84	9.43	1.01	-44.42	-16.00	28.42
2520.075	V	49.43	-51.10	9.43	1.01	-42.68	-16.00	26.68
2940.088	H	54.40	-44.76	10.10	1.11	-35.77	-16.00	19.77
2940.088	V	50.77	-48.49	10.10	1.11	-39.50	-16.00	23.50
3360.100	H	52.30	-45.01	10.34	1.17	-35.84	-16.00	19.84
3360.100	V	43.69	-53.52	10.34	1.17	-44.35	-16.00	28.35
3780.113	H	58.66	-37.44	10.68	1.27	-28.03	-16.00	12.03
3780.113	V	51.86	-44.09	10.68	1.27	-34.68	-16.00	18.68
4200.125	H	54.67	-41.27	10.78	1.34	-31.83	-16.00	15.83
4200.125	V	53.34	-42.57	10.78	1.34	-33.13	-16.00	17.13

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM 12.5kHz, Frequency:435MHz								
870.000	H	19.28	-50.25	0.00	0.58	-50.83	-16.00	34.83
870.000	V	20.04	-46.57	0.00	0.58	-47.15	-16.00	31.15
1305.000	H	63.13	-39.65	7.95	0.71	-32.41	-16.00	16.41
1305.000	V	62.35	-40.87	7.95	0.71	-33.63	-16.00	17.63
1740.000	H	57.20	-46.77	8.79	0.85	-38.83	-16.00	22.83
1740.000	V	56.45	-47.68	8.79	0.85	-39.74	-16.00	23.74
2175.000	H	56.82	-45.41	9.21	0.94	-37.14	-16.00	21.14
2175.000	V	55.27	-47.02	9.21	0.94	-38.75	-16.00	22.75
2610.000	H	47.54	-52.40	9.58	1.03	-43.85	-16.00	27.85
2610.000	V	43.12	-56.69	9.58	1.03	-48.14	-16.00	32.14
3045.000	H	53.11	-45.07	10.22	1.13	-35.98	-16.00	19.98
3045.000	V	50.59	-47.60	10.22	1.13	-38.51	-16.00	22.51
3480.000	H	51.37	-46.46	10.39	1.16	-37.23	-16.00	21.23
3480.000	V	49.68	-48.10	10.39	1.16	-38.87	-16.00	22.87
3915.000	H	60.85	-35.26	10.82	1.27	-25.71	-16.00	9.71
3915.000	V	58.16	-37.91	10.82	1.27	-28.36	-16.00	12.36
4350.000	H	57.06	-38.88	10.69	1.38	-29.57	-16.00	13.57
4350.000	V	56.17	-39.73	10.69	1.38	-30.42	-16.00	14.42
FM 25kHz, Frequency: 435MHz								
870.000	H	25.19	-44.34	0.00	0.58	-44.92	-16.00	28.92
870.000	V	19.55	-47.06	0.00	0.58	-47.64	-16.00	31.64
1305.000	H	63.36	-39.42	7.95	0.71	-32.18	-16.00	16.18
1305.000	V	63.15	-40.07	7.95	0.71	-32.83	-16.00	16.83
1740.000	H	56.97	-47.00	8.79	0.85	-39.06	-16.00	23.06
1740.000	V	52.01	-52.12	8.79	0.85	-44.18	-16.00	28.18
2175.000	H	56.93	-45.30	9.21	0.94	-37.03	-16.00	21.03
2175.000	V	47.13	-55.16	9.21	0.94	-46.89	-16.00	30.89
2610.000	H	47.96	-51.98	9.58	1.03	-43.43	-16.00	27.43
2610.000	V	43.98	-55.83	9.58	1.03	-47.28	-16.00	31.28
3045.000	H	53.65	-44.53	10.22	1.13	-35.44	-16.00	19.44
3045.000	V	55.13	-43.06	10.22	1.13	-33.97	-16.00	17.97
3480.000	H	50.86	-46.97	10.39	1.16	-37.74	-16.00	21.74
3480.000	V	54.13	-43.65	10.39	1.16	-34.42	-16.00	18.42
3915.000	H	60.48	-35.63	10.82	1.27	-26.08	-16.00	10.08
3915.000	V	51.49	-44.58	10.82	1.27	-35.03	-16.00	19.03
4350.000	H	57.44	-38.50	10.69	1.38	-29.19	-16.00	13.19
4350.000	V	51.31	-44.59	10.69	1.38	-35.28	-16.00	19.28

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
FM 12.5kHz, Frequency: 449.9875MHz								
899.975	H	25.91	-42.86	0.00	0.63	-43.49	-16.00	27.49
899.975	V	25.52	-40.61	0.00	0.63	-41.24	-16.00	25.24
1349.963	H	64.39	-38.83	8.08	0.79	-31.54	-16.00	15.54
1349.963	V	63.50	-39.97	8.08	0.79	-32.68	-16.00	16.68
1799.950	H	52.64	-50.86	8.86	0.90	-42.90	-16.00	26.90
1799.950	V	49.38	-54.31	8.86	0.90	-46.35	-16.00	30.35
2249.938	H	59.49	-42.65	9.25	0.93	-34.33	-16.00	18.33
2249.938	V	69.69	-32.39	9.25	0.93	-24.07	-16.00	8.07
2699.925	H	54.89	-45.09	9.72	1.04	-36.41	-16.00	20.41
2699.925	V	56.45	-43.49	9.72	1.04	-34.81	-16.00	18.81
3149.913	H	58.94	-38.41	10.26	1.14	-29.29	-16.00	13.29
3149.913	V	57.26	-39.90	10.26	1.14	-30.78	-16.00	14.78
3599.900	H	53.15	-44.40	10.50	1.24	-35.14	-16.00	19.14
3599.900	V	52.52	-44.89	10.50	1.24	-35.63	-16.00	19.63
4049.888	H	57.15	-38.73	10.87	1.32	-29.18	-16.00	13.18
4049.888	V	47.65	-48.12	10.87	1.32	-38.57	-16.00	22.57
4499.875	H	58.66	-37.12	10.60	1.38	-27.90	-16.00	11.90
4499.875	V	55.02	-40.50	10.60	1.38	-31.28	-16.00	15.28
FM 25kHz, Frequency: 449.9875MHz								
899.975	H	25.81	-42.96	0.00	0.63	-43.59	-16.00	27.59
899.975	V	23.01	-43.12	0.00	0.63	-43.75	-16.00	27.75
1349.963	H	65.79	-37.43	8.08	0.79	-30.14	-16.00	14.14
1349.963	V	64.32	-39.15	8.08	0.79	-31.86	-16.00	15.86
1799.950	H	52.46	-51.04	8.86	0.90	-43.08	-16.00	27.08
1799.950	V	50.16	-53.53	8.86	0.90	-45.57	-16.00	29.57
2249.938	H	58.62	-43.52	9.25	0.93	-35.20	-16.00	19.20
2249.938	V	54.97	-47.11	9.25	0.93	-38.79	-16.00	22.79
2699.925	H	53.64	-46.34	9.72	1.04	-37.66	-16.00	21.66
2699.925	V	50.79	-49.15	9.72	1.04	-40.47	-16.00	24.47
3149.913	H	59.26	-38.09	10.26	1.14	-28.97	-16.00	12.97
3149.913	V	56.45	-40.71	10.26	1.14	-31.59	-16.00	15.59
3599.900	H	50.37	-47.18	10.50	1.24	-37.92	-16.00	21.92
3599.900	V	49.25	-48.16	10.50	1.24	-38.90	-16.00	22.90
4049.888	H	56.63	-39.25	10.87	1.32	-29.70	-16.00	13.70
4049.888	V	53.67	-42.10	10.87	1.32	-32.55	-16.00	16.55
4499.875	H	58.83	-36.95	10.60	1.38	-27.73	-16.00	11.73
4499.875	V	55.64	-39.88	10.60	1.38	-30.66	-16.00	14.66

Note 1:

The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

4.7 FREQUENCY STABILITY

Serial Number:	26SR-1	Test Date:	2023/09/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.9	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/03/31	2024/03/30
UNI-T	Multimeter	UT39A+	C210582554	2022/09/29	2023/09/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	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).*

Reference Frequency: 144.0125 MHz, 12.5 kHz			
Temperature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	144.0125363	0.25
-20		144.0125287	0.20
-10		144.0125198	0.14
0		144.0125124	0.09
10		144.0125065	0.05
20		144.0125000	0.00
30		144.0124943	-0.04
40		144.0124876	-0.09
50		144.0124812	-0.13
20	6.66	144.0125097	0.07
20	8.14	144.0124928	-0.05

Reference Frequency: 144.0125 MHz, 25 kHz			
Temperature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	144.0125524	0.36
-20		144.0125417	0.29
-10		144.0125318	0.22
0		144.0125235	0.16
10		144.0125102	0.07
20		144.0125000	0.00
30		144.0124889	-0.08
40		144.0124756	-0.17
50		144.0124643	-0.25
20	6.66	144.0125155	0.11
20	8.14	144.0124847	-0.11

Reference Frequency: 147.9875 MHz, 12.5 kHz			
Temperature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	147.9875468	0.32
-20		147.9875371	0.25
-10		147.9875253	0.17
0		147.9875166	0.11
10		147.9875087	0.06
20		147.9875000	0.00
30		147.9874894	-0.07
40		147.9874785	-0.15
50		147.9874681	-0.22
20	6.66	147.9875099	0.07
20	8.14	147.9874906	-0.06

Reference Frequency: 147.9875 MHz, 25 kHz			
Temperature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	147.9875577	0.39
-20		147.9875468	0.32
-10		147.9875361	0.24
0		147.9875254	0.17
10		147.9875125	0.08
20		147.9875000	0.00
30		147.9874873	-0.09
40		147.9874742	-0.17
50		147.9874609	-0.26
20	6.66	147.9875147	0.10
20	8.14	147.9874874	-0.09

Reference Frequency: 435 MHz, 12.5 kHz			
Temperature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	435.0000994	0.23
-20		435.0000637	0.15
-10		435.0000383	0.09
0		435.0000108	0.02
10		434.9999845	-0.04
20		434.9999600	-0.09
30		434.9999358	-0.15
40		434.9999116	-0.20
50		434.9998879	-0.26
20	6.66	434.9999953	-0.01
20	8.14	434.9999287	-0.16

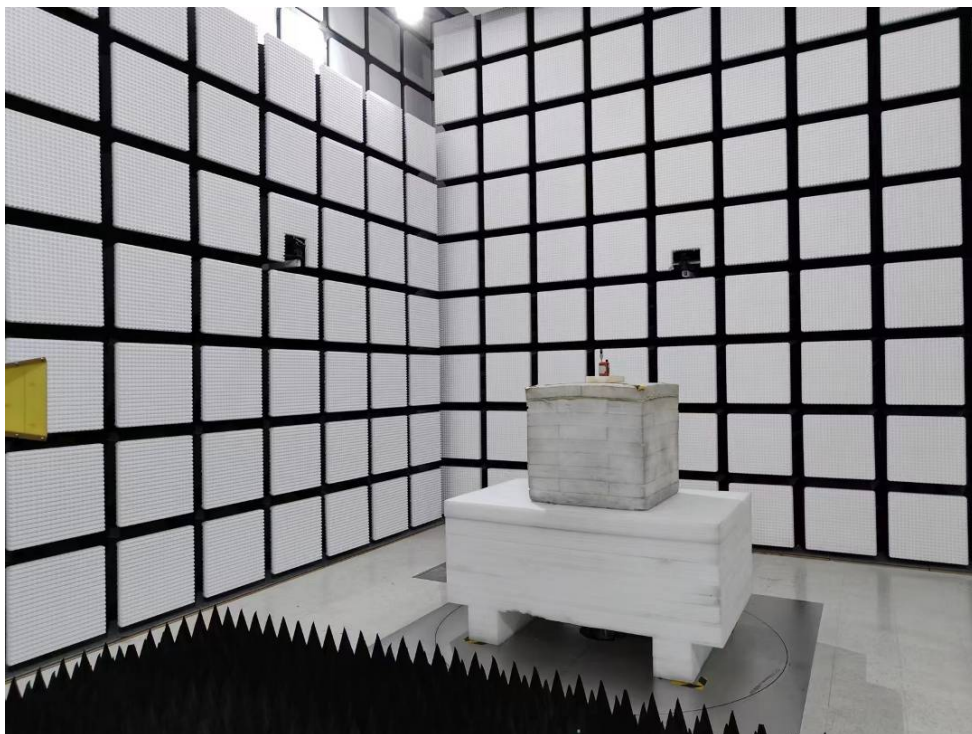
Reference Frequency: 435 MHz, 25 kHz			
Temperature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	435.0001123	0.26
-20		435.0000768	0.18
-10		435.0000485	0.11
0		435.0000224	0.05
10		434.9999897	-0.02
20		434.9999600	-0.09
30		434.9999301	-0.16
40		434.9998836	-0.27
50		434.9998472	-0.35
20	6.66	435.0000063	0.01
20	8.14	434.9999118	-0.20

5- TEST SETUP PHOTOGRAPHS

Radiated Emission Below 1GHz View



Radiated Emission Above 1GHz View



6. EUT PHOTOGRAPHS

Please refer to the attachment CR230633404-EXP EUT EXTERNAL PHOTOGRAPHS and CR230633404-INP EUT INTERNAL PHOTOGRAPHS

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