



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Xiamen Aorui Electronics Co.,Ltd.

Address: Room 302-5, 3rd Floor, No. 2, Malong Road, Torch Park, Torch High-tech Zone, Xiamen, China.

FCC ID: 2BDQ3-MR-25

Product Name: VHF Handheld Marine Radio

Standard(s): FCC Part 80

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: 2403V21999E-RF-00B

Date Of Issue: 2024/10/30

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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.

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	2403V21999E-RF-00B	Original Report	2024/10/30

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	VHF Handheld Marine Radio
Trade Name:	ABBREE
EUT Model:	MR-25
Multiple Models:	AR-25M,MR-25 Pro
Operation Frequency:	TX: 156.050-157.425 MHz RX: 156.050-163.275 MHz
Rated RF Output Power (Conducted) (W):	High power level: 3 Low power level: 1
Modulation Type:	FM
Channel Spacing (kHz):	25
Product Category:	Portable device
DSC Function:	Non-support
AIS Class:	Non-support
Rated Input Voltage:	DC1.2V from 5*AAA battery, DC 12V charging from adapter, DC 13.8V charging from DC charger
Serial Number:	RE: 2ON6-1 RF: 2ON6-2
EUT Received Date:	2024/7/17
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.	

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Monopole Antenna	50	156-164	1.8

Accessory Information:

Accessory Description	Manufacturer	Model
Adapter	Shenzhen shengji mains Co., Ltd	SJ-12005001
DC Charger	Unknown	Unknown

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.
Equipment Modifications:	No
EUT Exercise Software:	No

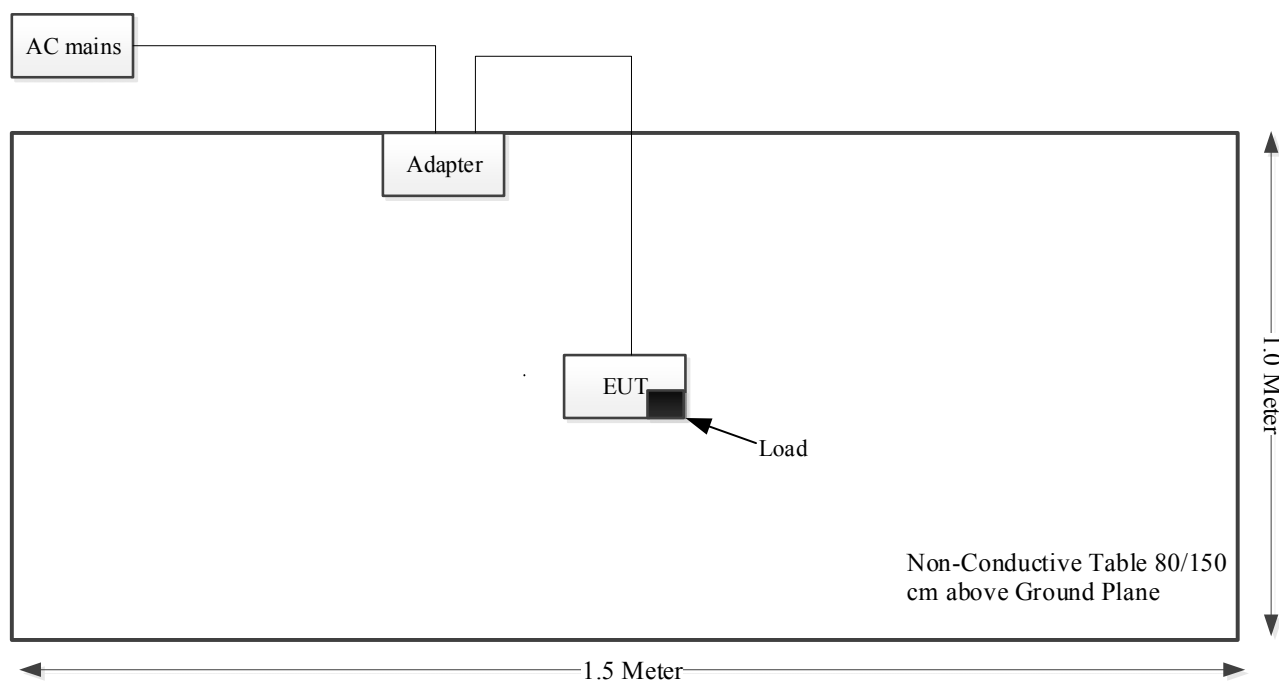
1.2.2 Support Equipment List and Details

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

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	NO	NO	1	adapter	EUT

1.2.4 Block Diagram of Test Setup



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 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
RF Frequency	$\pm 0.082 \times 10^{-6}$
Modulation Requirements	4.57 %

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1046; §80.215;	Transmitter Power	Compliance
§2.1047; §80.213;	Modulation Requirements	Compliance
§2.1049; §80.205;	Bandwidth	Compliance
§2.1051; §80.211(f);	Emission Limitations	Compliance
§80.217;	Suppression of Interference Aboard Ships	Compliance
§2.1053; §80.211;	Spurious Radiated Emissions	Compliance
§2.1055; §80.209(a)(5)(ii);	Transmitter Frequency Tolerances	Compliance

3. REQUIREMENTS AND TEST PROCEDURES

3.1 Transmitter Power

3.1.1 Applicable Standard

FCC §80.215.

(c) Coast station frequencies above 27500 kHz. The maximum power must not exceed the values listed below.

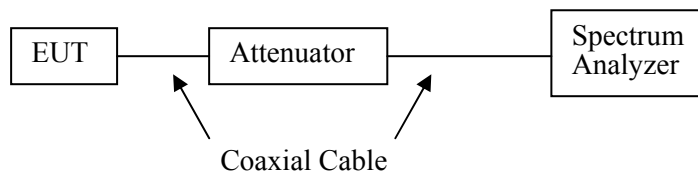
(2) Marine utility stations: 156-162 MHz - 10W

(e) Ship stations frequencies above 27500 kHz. The maximum power must not exceed the values listed below.

(1) Ship stations 156-162 MHz - 25W

Note: Reducible to 1 watt or less, except for transmitters limited to public correspondence channels and used in an automated system.

3.1.2 Block Diagram of Test Setup



Note: Path loss from EUT to Spectrum Analyzer is 31.2 dB.

3.1.3 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:

RBW	VBW
100 kHz	300 kHz

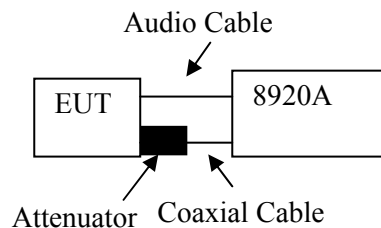
3.2 Modulation Requirements

3.2.1 Applicable Standard

FCC §80.213.

Ship and coast station transmitters operating in the 156-162 MHz and 216-220 bands must be capable of proper operation with a frequency deviation that does not exceed ± 5 kHz when using any emission authorized by § 80.207.

3.2.2 Block Diagram of Test Setup



3.2.3 Test Procedure

Test Method: TIA-603-E 2.2.3

3.3 Bandwidth

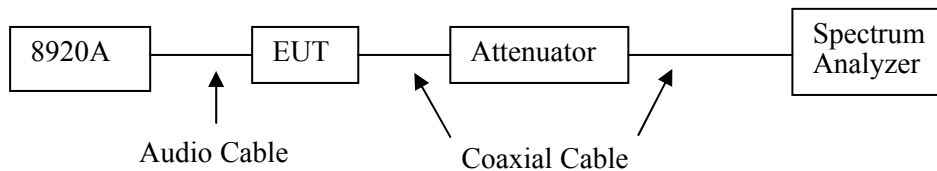
3.3.1 Applicable Standard

FCC §80.205.

(a) An emission designator shows the necessary bandwidth for each class of emission of a station except that in ship earth stations it shows the occupied or necessary bandwidth, whichever is greater.

The class of emission and corresponding emission designator and authorized bandwidth can refer to §80.205

3.3.2 Block Diagram of Test Setup



Note: Path loss from EUT to Spectrum Analyzer is 31.2 dB.

3.3.3 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 300 Hz and the spectrum was recorded in the appropriate frequency span from the carrier frequency.

3.4 Emission Limitations

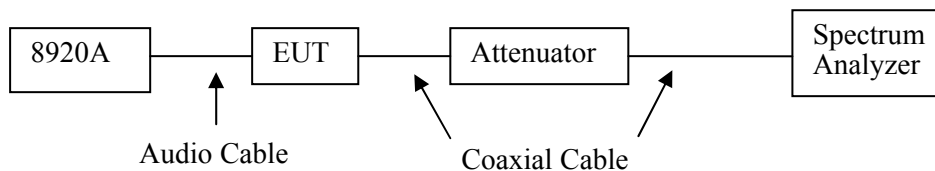
3.4.1 Applicable Standard

FCC §80.211(f).

- (1) On any frequency removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: At least 25 dB;
- (2) On any frequency removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: At least 35 dB; and
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 plus $10\log_{10}$ (mean power in watts) dB.

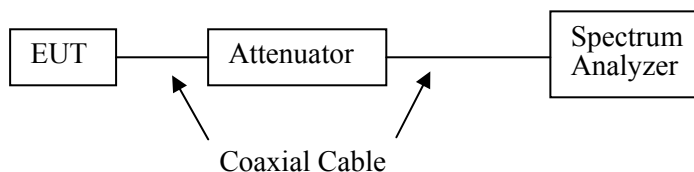
3.4.2 Block Diagram of Test Setup

For Mask Test:



Note: Path loss from EUT to Spectrum Analyzer is 31.2 dB.

For Conducted Emission Test:



Note: Path loss from EUT to Spectrum Analyzer is 31.2 dB.

3.4.3 Test Procedure

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.

For Mask test, the resolution bandwidth of the spectrum analyzer was set at 300 Hz and the spectrum was recorded in the frequency band more than ± 50 kHz from the carrier frequency.

For Conducted Emission test, 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 Suppression of Interference Aboard Ships

3.5.1 Applicable Standard

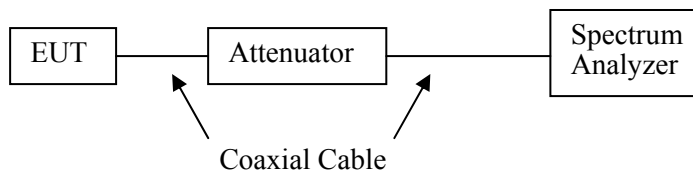
FCC §80.217.

(a) A voluntarily equipped ship station receiver must not cause harmful interference to any receiver required by statute or treaty.

(b) Deliver not more than the following amounts of power, to an artificial antenna having electrical characteristics equivalent to those of the average receiving antenna(s) use on shipboard:

Frequency of interfering emissions	Power to artificial antenna in microwatts	Power to artificial antenna in dBm
Below 30 MHz	400	-3.98
30 to 100 MHz	4000	6.02
100 to 300 MHz	40000	16.02
Over 300 MHz	400000	26.02

3.5.2 Block Diagram of Test Setup



Note: Path loss from EUT to Spectrum Analyzer is 31.2 dB.

3.5.3 Test Procedure

The EUT was connected to a spectrum analyzer via a appropriate attenuator. The spectrum was measured between 9 kHz to 2 GHz. The traces were recorded as shown on the following pages.

3.6 Spurious Radiated Emissions

3.6.1 Applicable Standard

FCC §80.211.

(1) On any frequency removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: At least 25 dB;

(2) On any frequency removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: At least 35 dB; and

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 plus $10\log_{10}$ (mean power in watts) dB.

3.6.2 Block Diagram of Test Setup

Please refer to section 1.3.4.

3.6.3 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 teeth 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 = $10 \cdot \lg(\text{TX}_{\text{pwr}}$ in Watts/0.001)-the absolute level

Spurious attenuation limit in dB = $43 + 10 \cdot \lg(\text{power out in Watts})$

3.7 Transmitter Frequency Tolerances

3.7.1 Applicable Standard

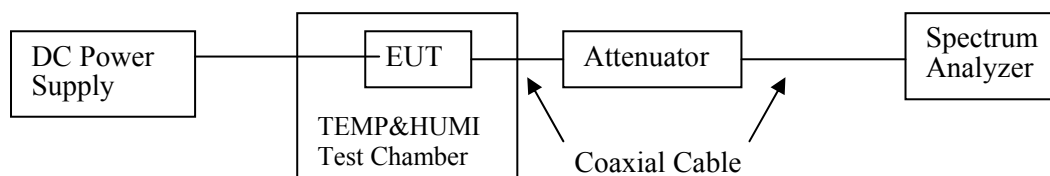
FCC §80.209(a)(5)(ii).

(a) The frequency tolerance requirements applicable to transmitters in the maritime services are shown in the following table. Tolerances are given as parts in 10^6 unless shown in Hz.

(5) Band 156-162 MHz:

(ii) Ship stations 10ppm.

3.7.2 Block Diagram of Test Setup



Note: Path loss from EUT to Spectrum Analyzer is 31.2 dB.

3.7.3 Test Procedure

Frequency Stability vs. Temperature:

From -20° to $+60^{\circ}$ centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

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.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

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

4. Test DATA AND RESULTS

4.1 Transmitter Power

Serial Number:	2ON6-2	Test Date:	2024/8/24-2024/9/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.5-26.6	Relative Humidity: (%)	47-61	ATM Pressure: (kPa)	99.9-100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	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:

General:

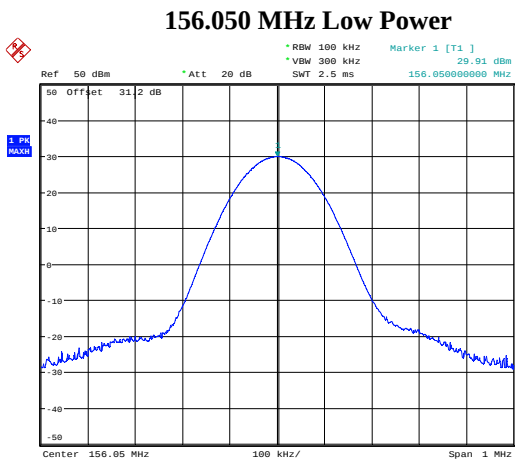
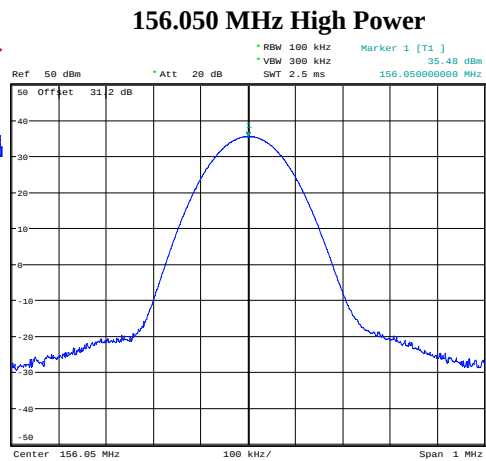
Modulation Mode	Channel Separation	f _c	High Power Level (dBm)		Low Power Level (dBm)	
		MHz	Reading	Limit	Reading	Limit
FM	25kHz	156.050	35.48	43.98	29.91	30
		156.700	35.48	43.98	29.75	30
		157.425	35.21	43.98	29.91	30

Low Power Only:

Modulation Mode	Channel Separation	f _c	Low Power Level (dBm)	
		MHz	Reading	Limit
FM	25kHz	156.375	29.83	30
		156.650	29.9	30
		156.850	29.87	30
		156.875	29.89	30

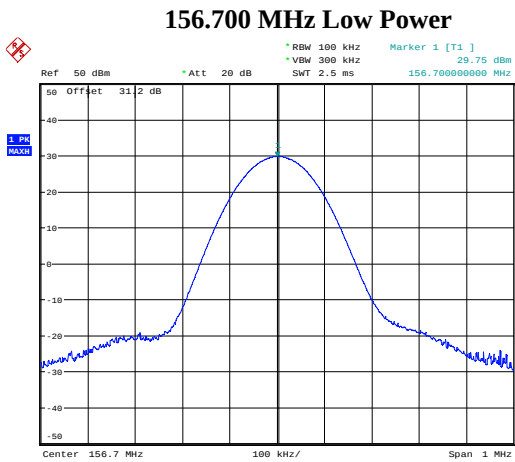
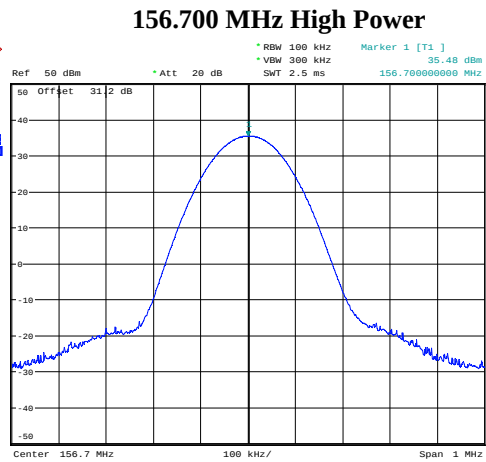
Note: The high rated power level is 3W(34.77 dBm), and low rated power level is 1W(30 dBm).

FM, 25kHz (General):



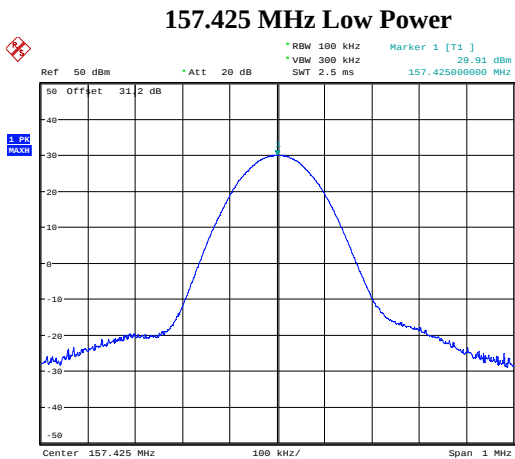
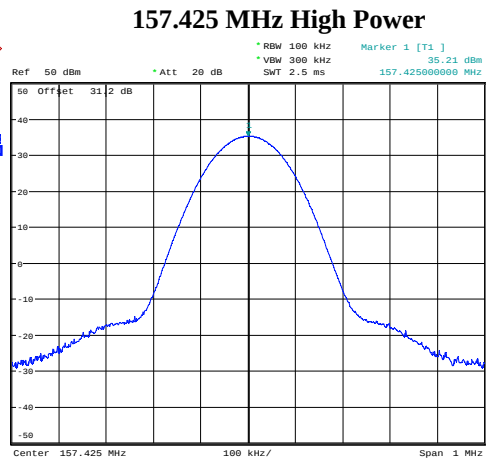
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 18:43:55

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:33:50



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:34:57

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:35:36

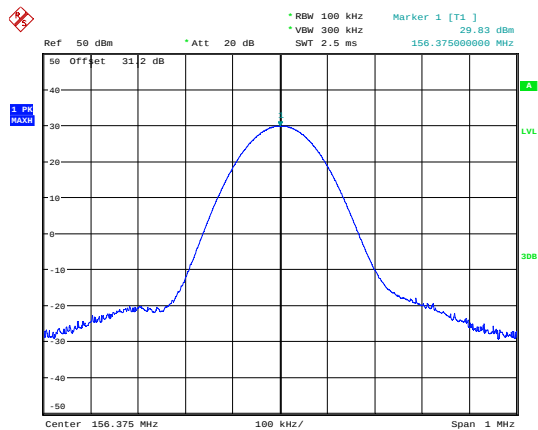


ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 18:47:51

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 18:48:21

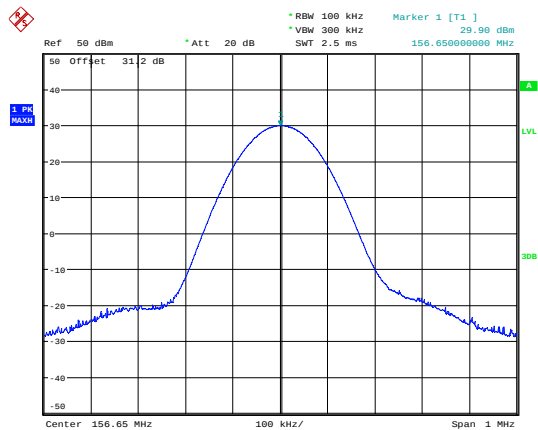
FM, 25kHz (Low Power Only):

156.375 MHz Low Power



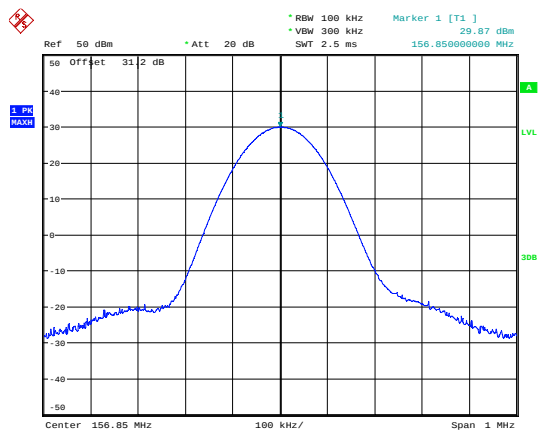
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:38:00

156.650 MHz Low Power



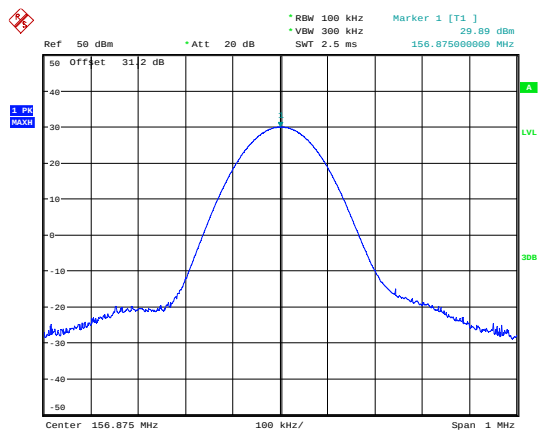
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:39:50

156.850 MHz Low Power



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:40:52

156.875 MHz Low Power



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 20:41:44

4.2 Modulation Requirements

Serial Number:	2ON6-2	Test Date:	2024/8/26-2024/9/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

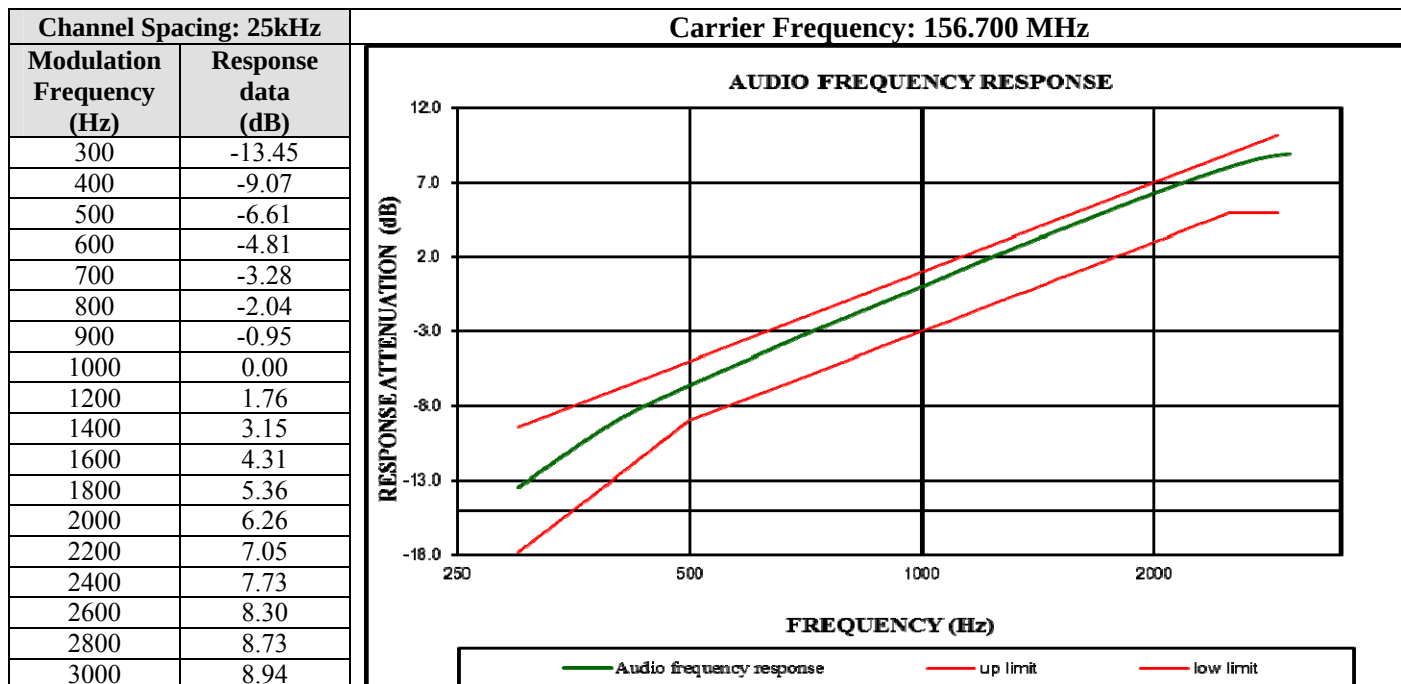
Environmental Conditions:

Temperature: (°C)	25.7-26.6	Relative Humidity: (%)	47-55	ATM Pressure: (kPa)	100.1-100.4
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Test Equipment List and Details:

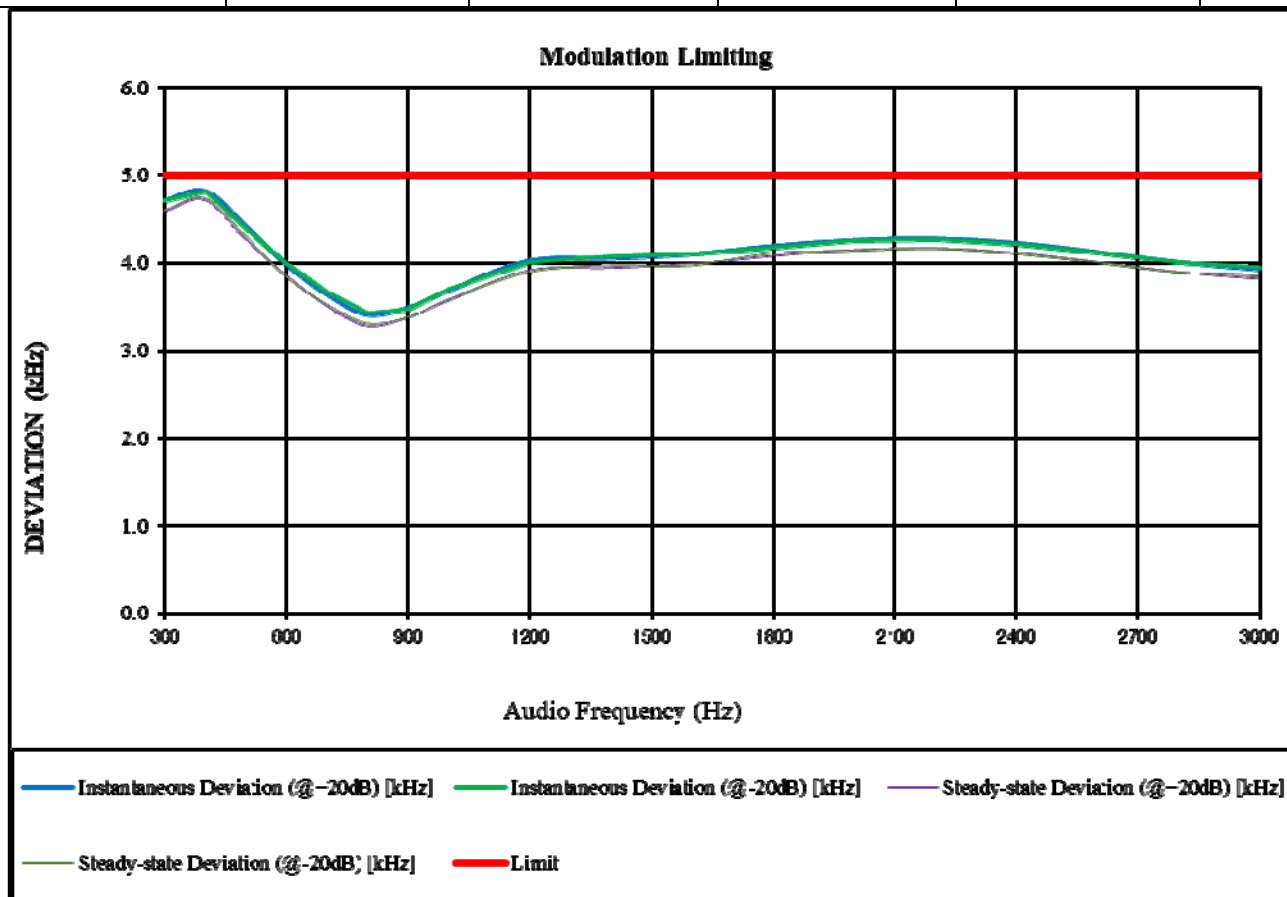
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2024/04/01	2025/03/31

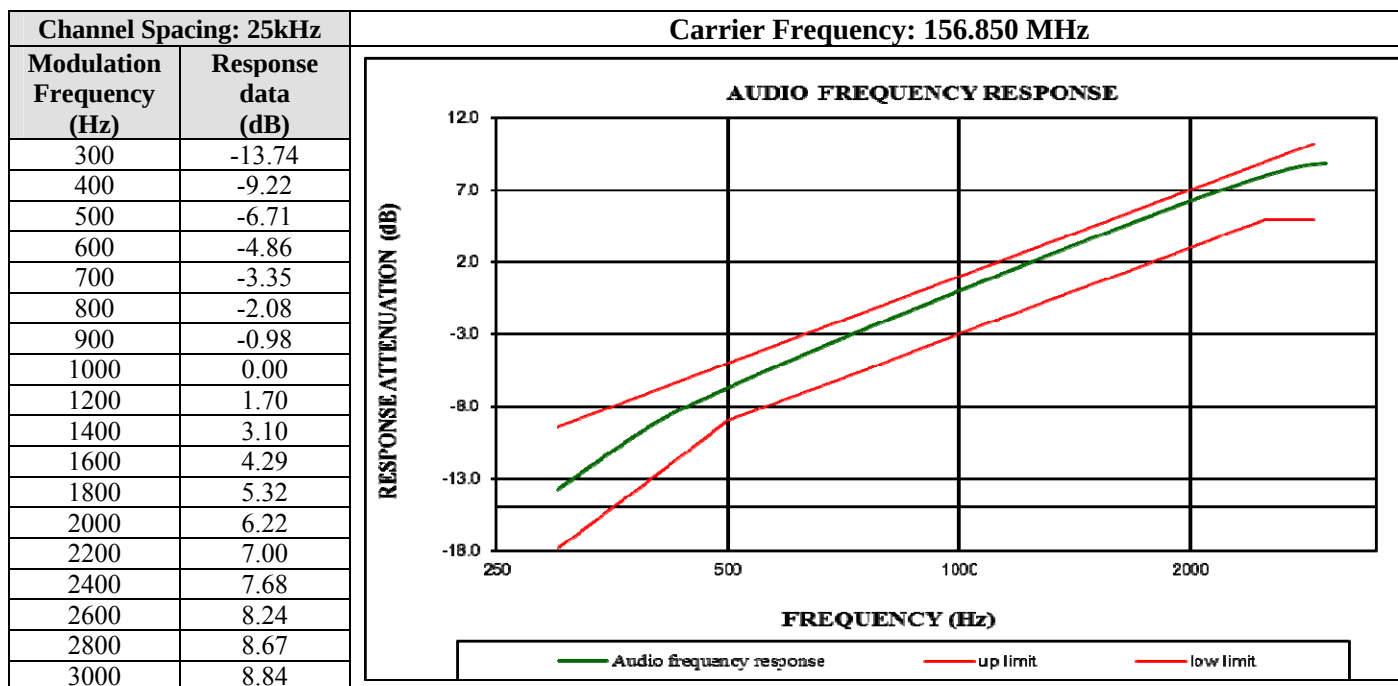
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:**Audio Frequency Response – High Power**

Modulation Limiting – High Power

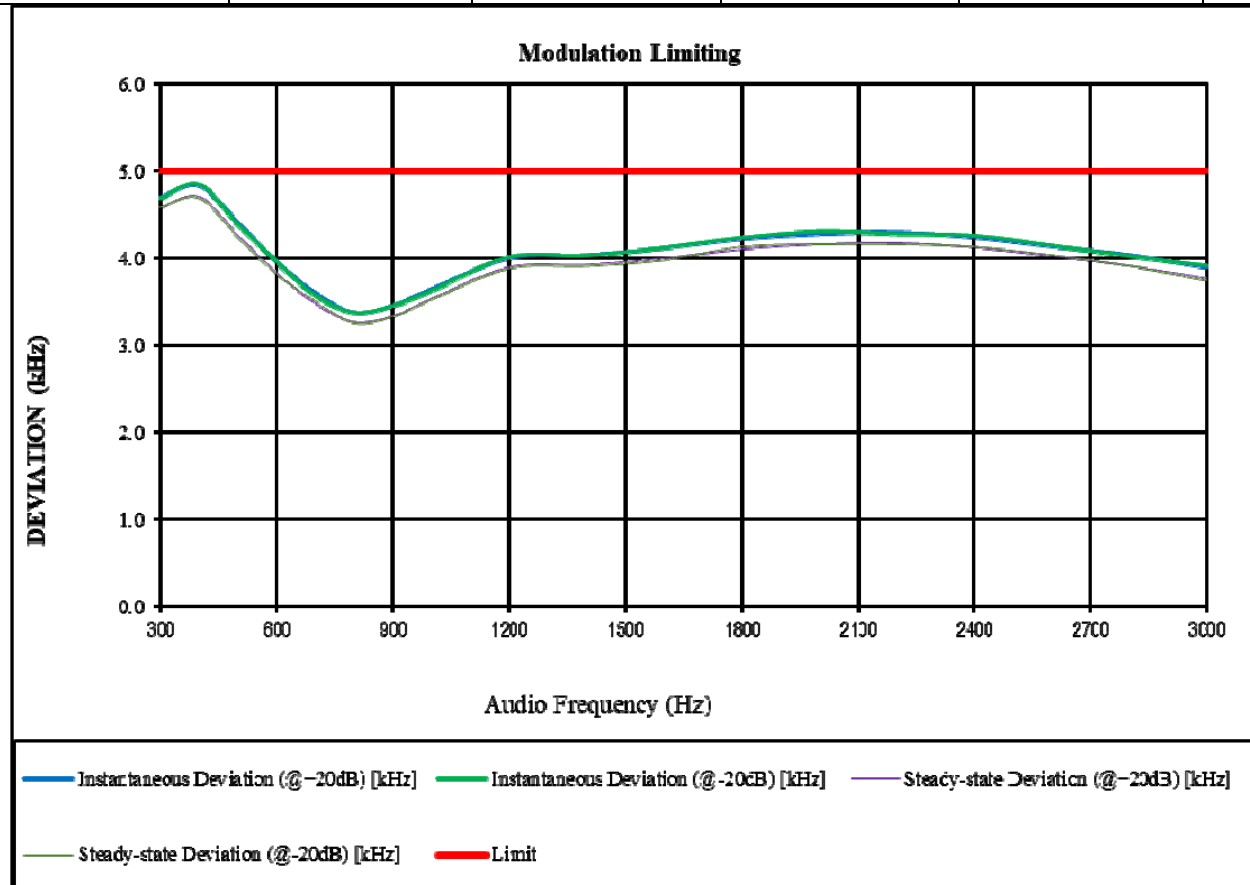
FM 25kHz	Carrier Frequency: 156.700 MHz				
Audio Frequency (Hz)	Instantaneous(@+20dB)		Steady-state(@+20dB)		Limit [kHz]
	Peak Positive Deviation [kHz]	Peak Negative Deviation [kHz]	Peak Positive Deviation [kHz]	Peak Negative Deviation [kHz]	
300	4.711	4.702	4.595	4.594	5
400	4.820	4.810	4.727	4.735	5
500	4.418	4.389	4.282	4.298	5
600	3.987	3.986	3.869	3.843	5
700	3.642	3.661	3.518	3.524	5
800	3.410	3.434	3.291	3.312	5
900	3.489	3.473	3.386	3.377	5
1000	3.684	3.703	3.580	3.583	5
1200	4.025	4.004	3.923	3.896	5
1400	4.052	4.071	3.954	3.971	5
1600	4.098	4.103	3.997	3.970	5
1800	4.193	4.171	4.088	4.112	5
2000	4.259	4.251	4.155	4.137	5
2200	4.276	4.260	4.173	4.163	5
2400	4.228	4.218	4.122	4.103	5
2600	4.123	4.110	4.017	4.002	5
2800	4.009	4.010	3.904	3.893	5
3000	3.925	3.947	3.828	3.851	5



Audio Frequency Response – Low Power

Modulation Limiting – Low Power

FM 25kHz	Carrier Frequency: 156.850 MHz				
Audio Frequency (Hz)	Instantaneous(@+20dB)		Steady-state(@+20dB)		Limit [kHz]
	Peak Positive Deviation [kHz]	Peak Negative Deviation [kHz]	Peak Positive Deviation [kHz]	Peak Negative Deviation [kHz]	
300	4.704	4.682	4.581	4.583	5
400	4.845	4.850	4.714	4.694	5
500	4.416	4.392	4.272	4.248	5
600	3.968	3.967	3.837	3.823	5
700	3.604	3.580	3.480	3.512	5
800	3.377	3.380	3.265	3.263	5
900	3.455	3.459	3.332	3.331	5
1000	3.647	3.629	3.533	3.525	5
1200	4.004	4.016	3.897	3.883	5
1400	4.036	4.032	3.924	3.911	5
1600	4.122	4.123	4.001	3.982	5
1800	4.229	4.239	4.105	4.134	5
2000	4.285	4.308	4.162	4.164	5
2200	4.301	4.279	4.177	4.165	5
2400	4.246	4.262	4.125	4.132	5
2600	4.139	4.148	4.026	4.039	5
2800	4.040	4.026	3.913	3.915	5
3000	3.895	3.917	3.768	3.745	5



4.3 Bandwidth

Serial Number:	2ON6-2	Test Date:	2024/8/24-2024/9/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.5-26.7	Relative Humidity: (%)	47-52	ATM Pressure: (kPa)	99.9-101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
YINSAIGE	Coaxial Cable	SS402	SJ0100001	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	2024/04/01	2025/03/31

* 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:

Modulation Mode	f _c	High Power Level		Low Power Level	
		99% Occupied Bandwidth	26 dB Bandwidth	99% Occupied Bandwidth	26 dB Bandwidth
	MHz	kHz	kHz	kHz	kHz
FM 25kHz	156.050	15.064	15.994	15.064	15.994
	156.700	14.583	15.994	14.583	15.994
	157.425	15.064	15.994	15.064	15.994
	156.375	/	/	15.064	15.994
	156.650	/	/	15.064	15.994
	156.850	/	/	15.064	15.994
	156.875	/	/	15.064	15.994

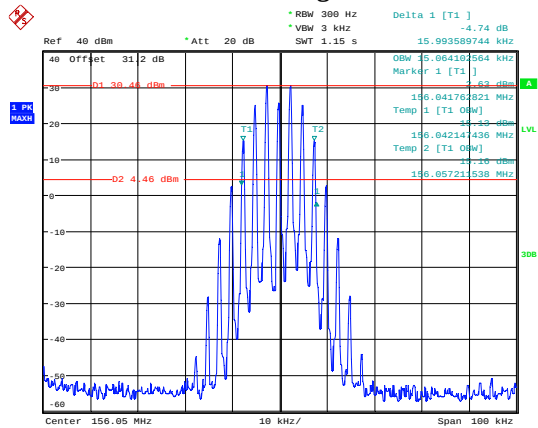
Note 1:
Authorized bandwidth for this device is 20 kHz.

Note 2:
Emission bandwidth was based on calculation method instead of measurement.
Emission Designator: BW = 2M + 2D
For FM Mode (Channel Spacing: 25 kHz)
Emission Designator 16K0G3E
In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.
 $BW = 2(M+D) = 2*(3.0\text{ kHz} + 5.0\text{ kHz}) = 16\text{ kHz} = 16K0$
G3E portion of the designator represents an voice transmission
Therefore, the entire designator for 25 kHz channel spacing voice mode is 16K0G3E.

General:

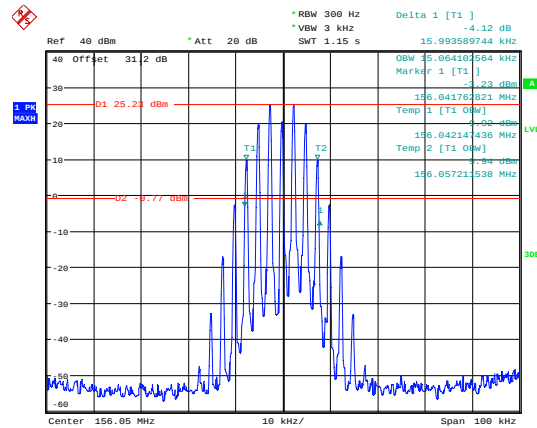
Occupied Bandwidth

156.050 MHz-High Power Level



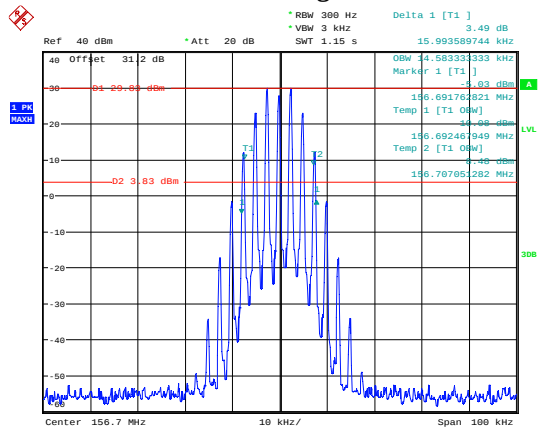
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:10:39

156.050 MHz-Low Power Level



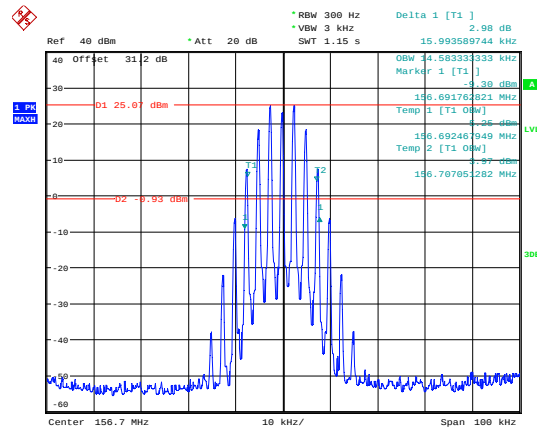
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:13:45

156.700 MHz-High Power Level



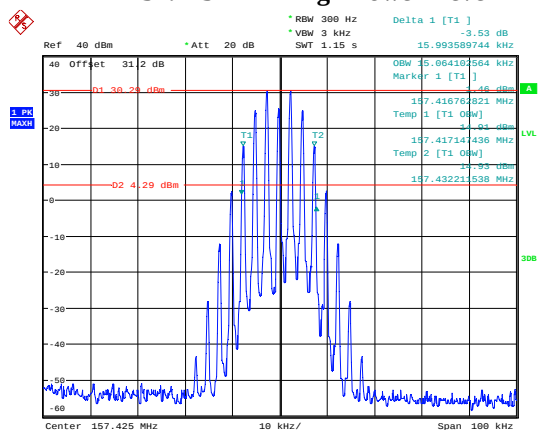
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:14:04

156.700 MHz-Low Power Level



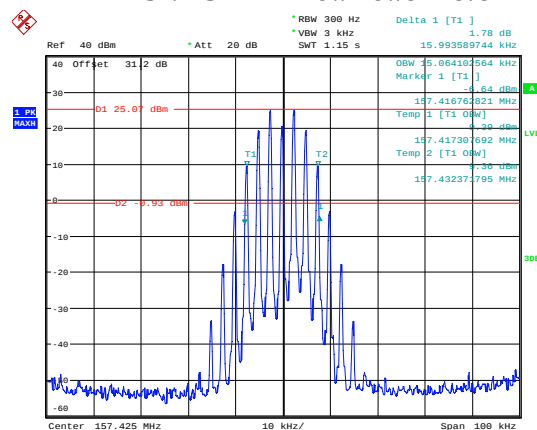
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:17:03

157.425 MHz-High Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:20:27

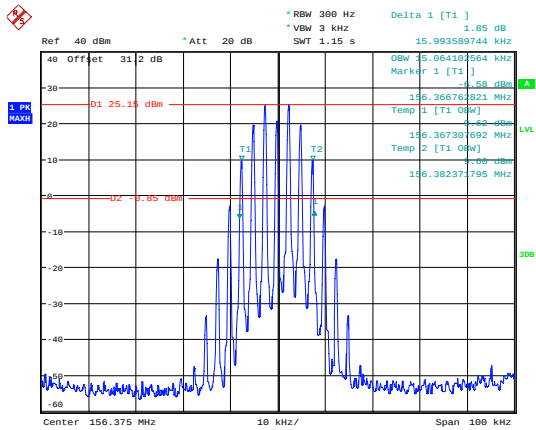
157.425 MHz- Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:37:07

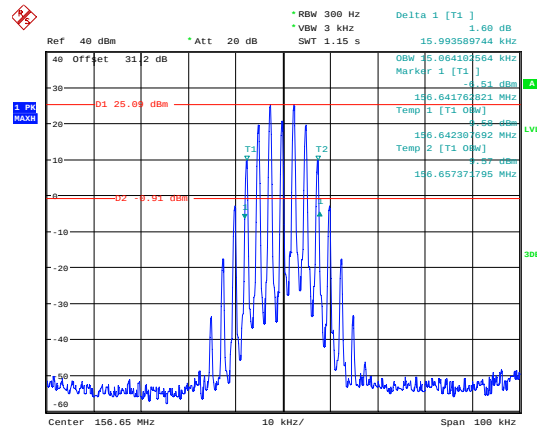
Low Power Only:

156.375 MHz- Low Power Level



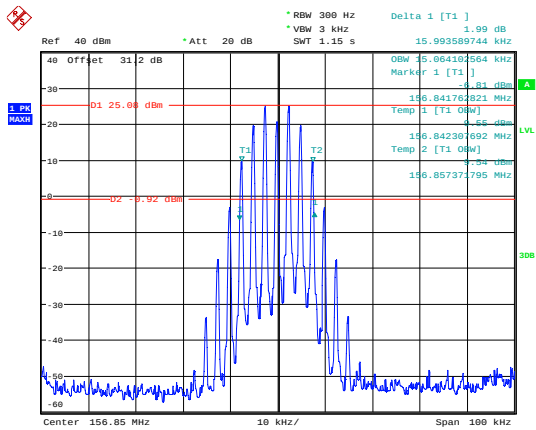
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:40:22

156.650 MHz- Low Power Level



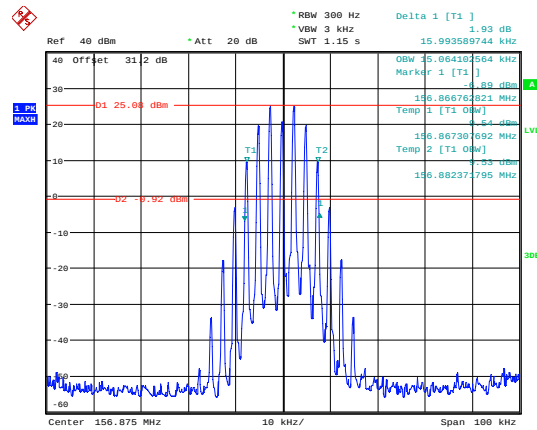
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:43:44

156.850 MHz- Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:45:41

156.875 MHz- Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 24.AUG.2024 19:47:54

4.4 Emission Limitations

Serial Number:	2ON6-2	Test Date:	2024/9/4-2024/10/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3-26.6	Relative Humidity: (%)	50-61	ATM Pressure: (kPa)	100.2-100.4
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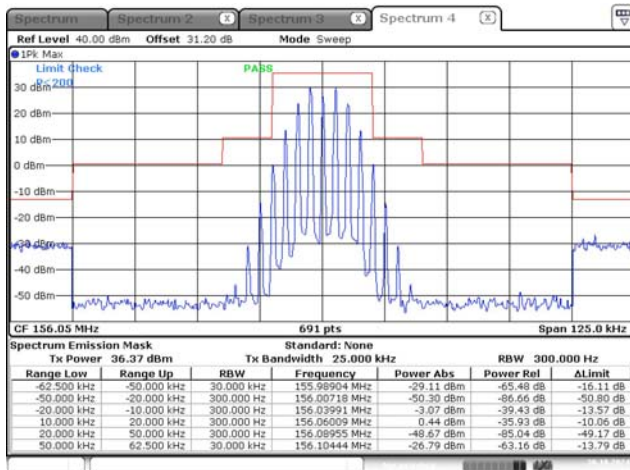
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2024/04/01	2025/03/31
YINSAIGE	Coaxial Cable	SS402	SJ0100001	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	2024/04/01	2025/03/31

* 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).

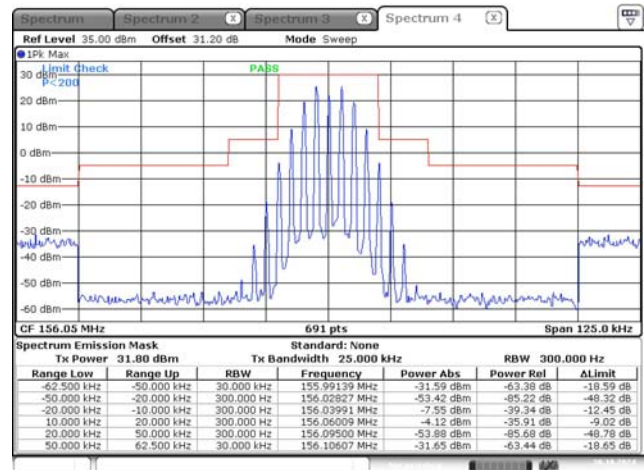
Emission Mask

156.050 MHz-High Power Level



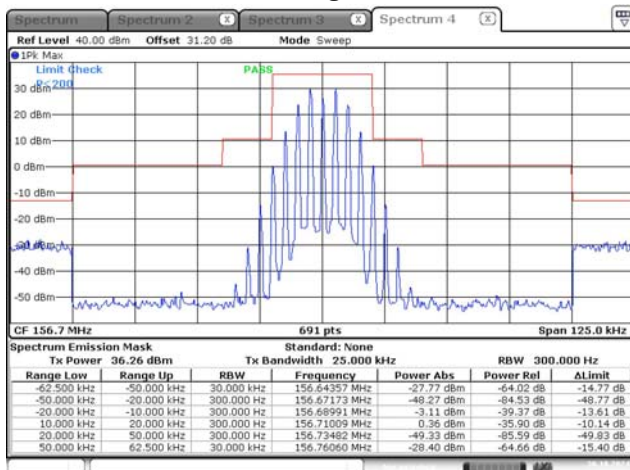
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 30.OCT.2024 14:22:13

156.050 MHz-Low Power Level



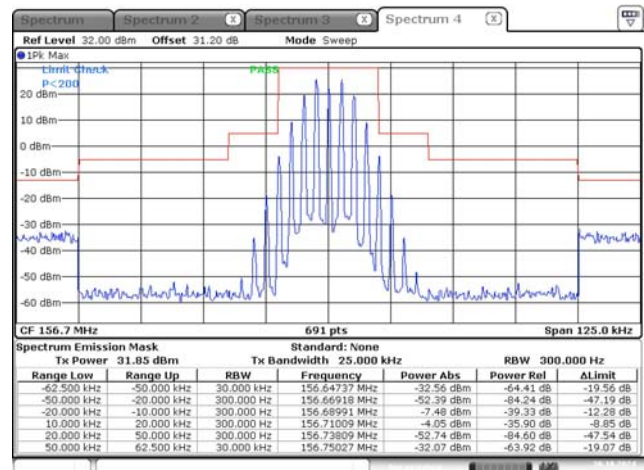
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 30.OCT.2024 14:24:27

156.700 MHz-High Power Level



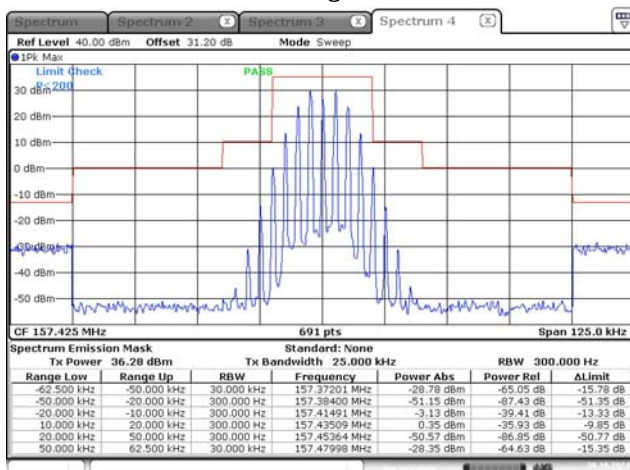
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 30.OCT.2024 14:27:37

156.700 MHz-Low Power Level



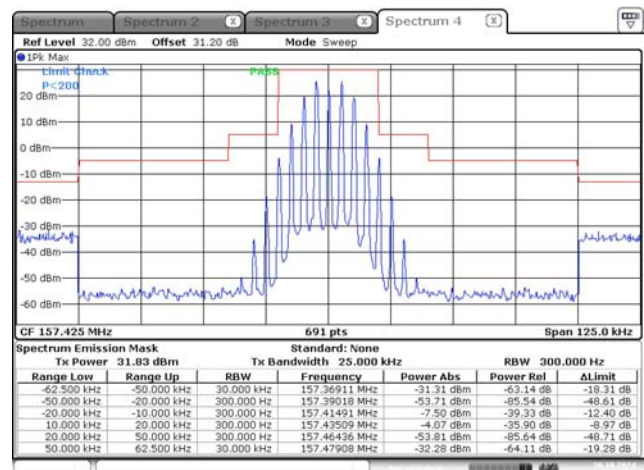
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 30.OCT.2024 14:29:13

157.425 MHz-High Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 30.OCT.2024 14:31:15

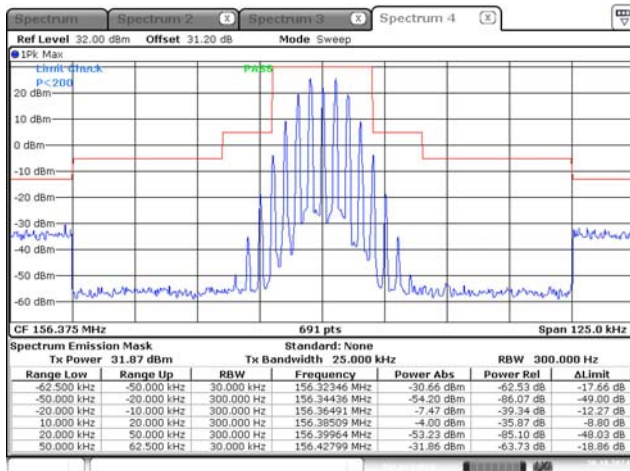
157.425 MHz- Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 30.OCT.2024 14:32:15

Low Power Only:

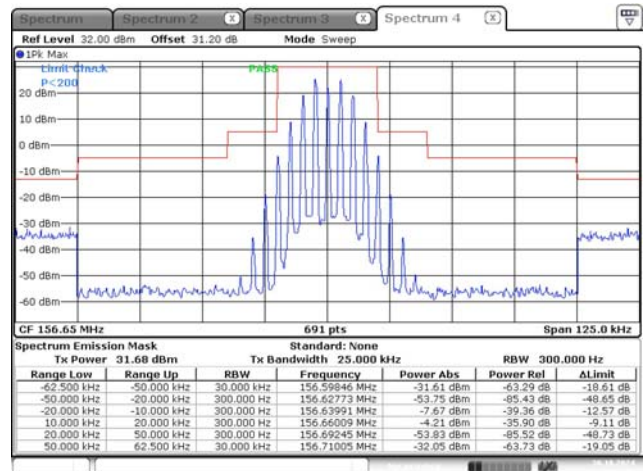
156.375 MHz- Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue

Date: 30.OCT.2024 14:33:44

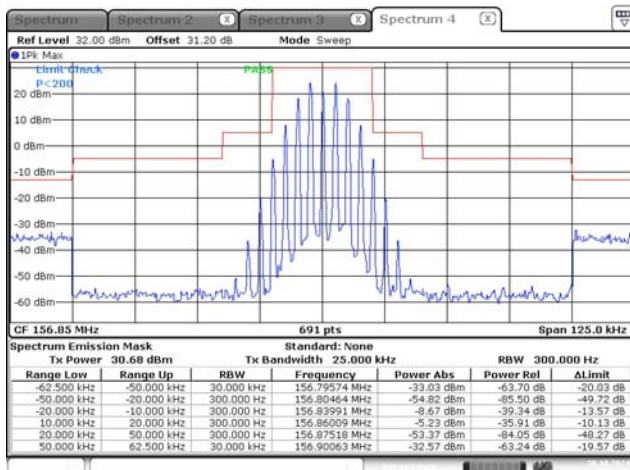
156.650 MHz Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue

Date: 30.OCT.2024 14:41:40

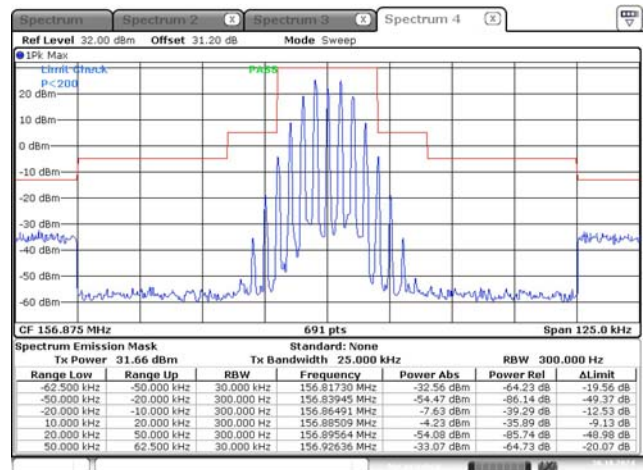
156.850 MHz- Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue

Date: 30.OCT.2024 14:57:10

156.875 MHz-Low Power Level



ProjectNo.:2403V21999E-RF Tester:Carl Xue

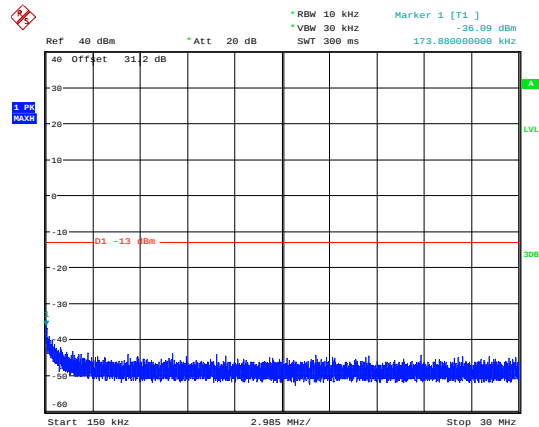
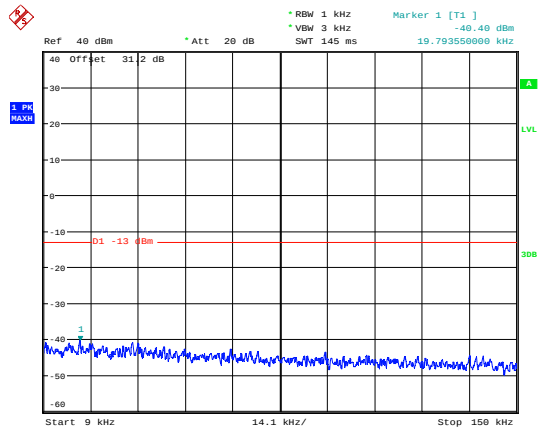
Date: 30.OCT.2024 14:59:21

Conducted Emission:

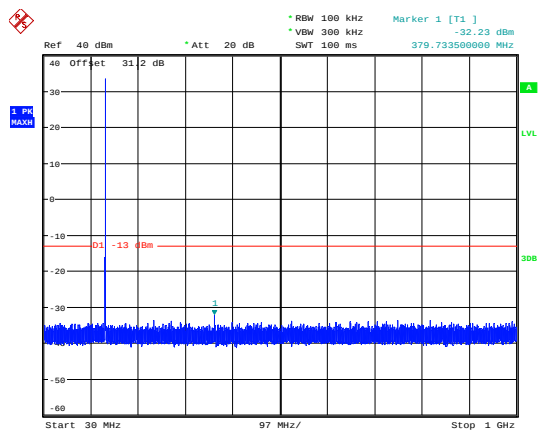
High Power Only:

Please refer to the following plots.

156.050 MHz

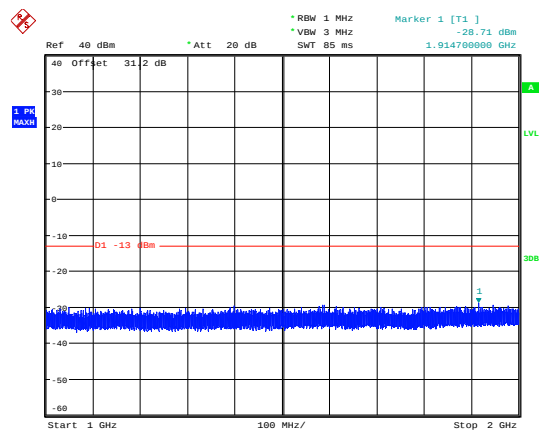


ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:37:29



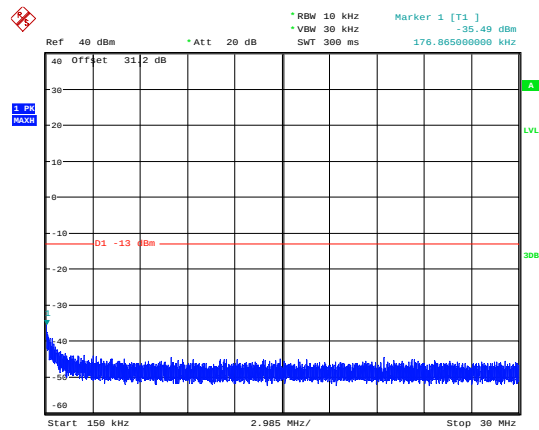
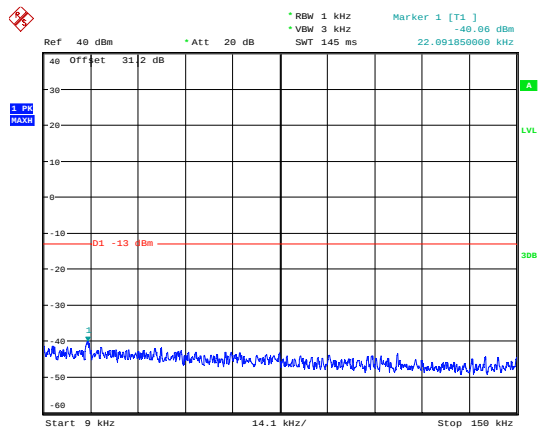
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:04:57

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:48:16

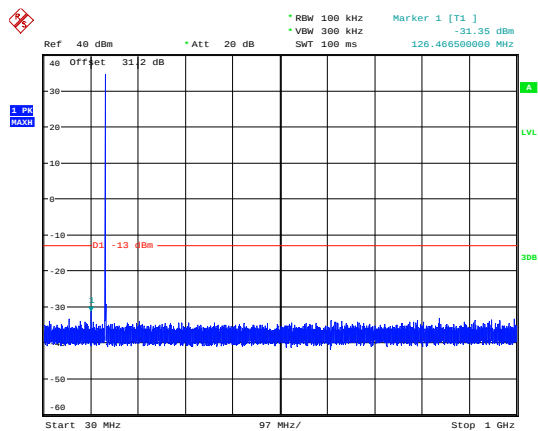


ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:15:13

156.700 MHz

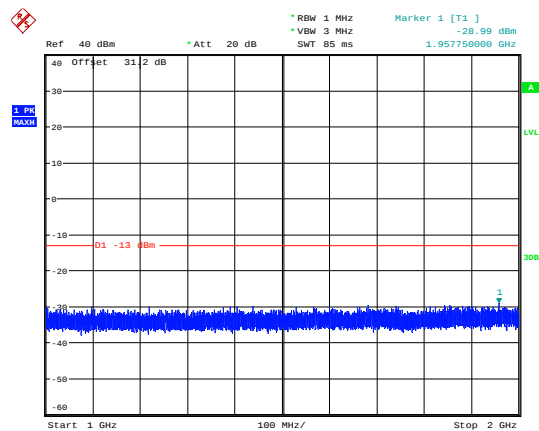


ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:21:24



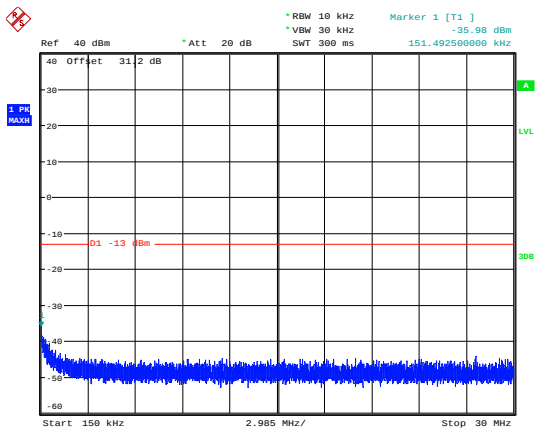
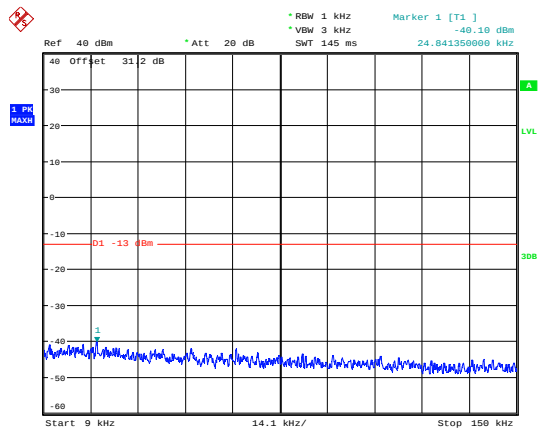
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:24:09

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:22:33



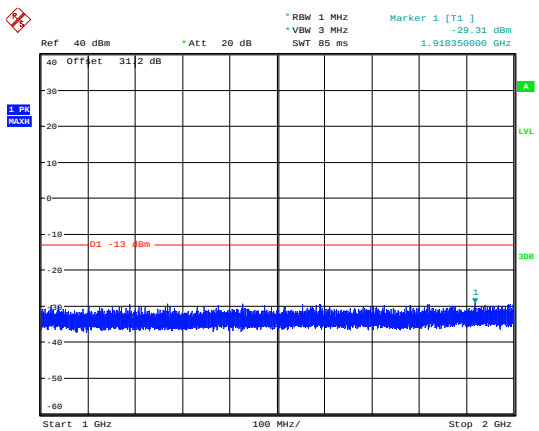
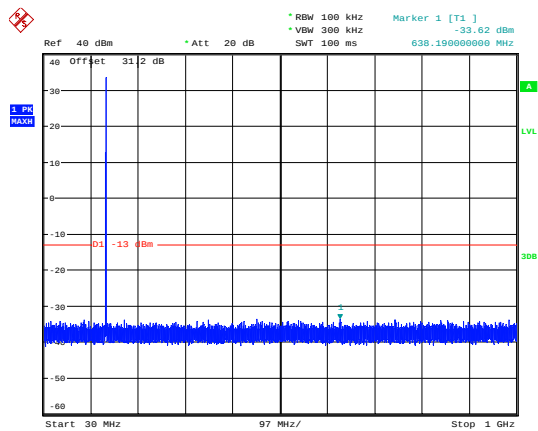
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:24:54

157.425 MHz



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:42:14

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:50:52



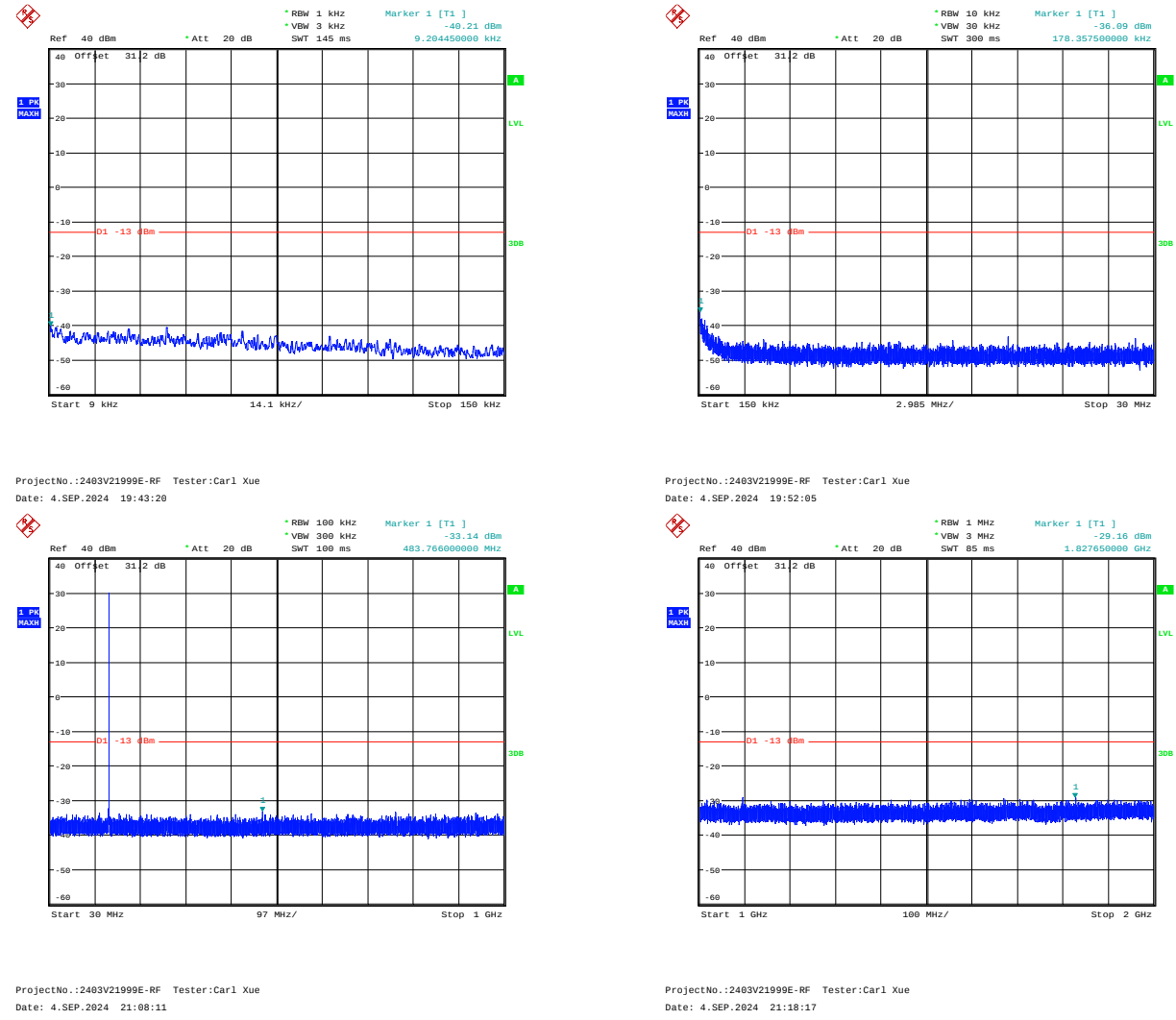
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:07:03

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:17:21

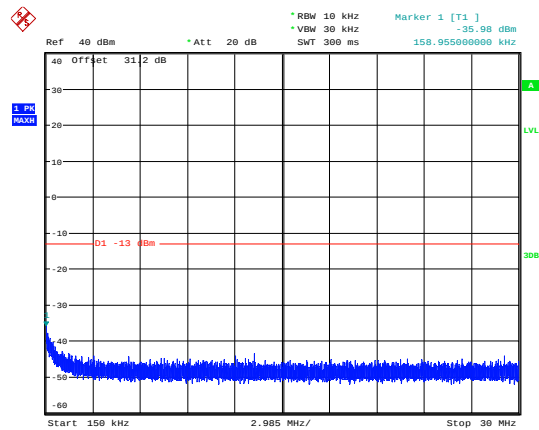
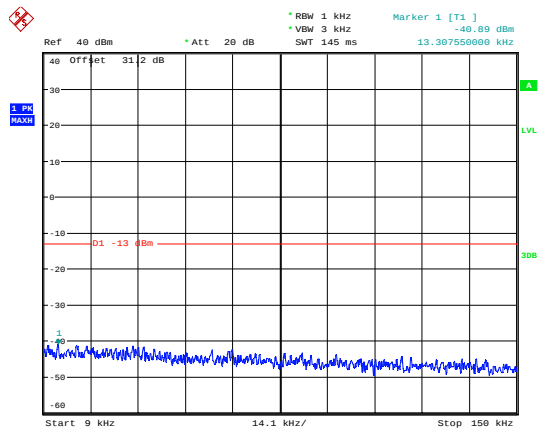
Low Power Only:

Please refer to the following plots.

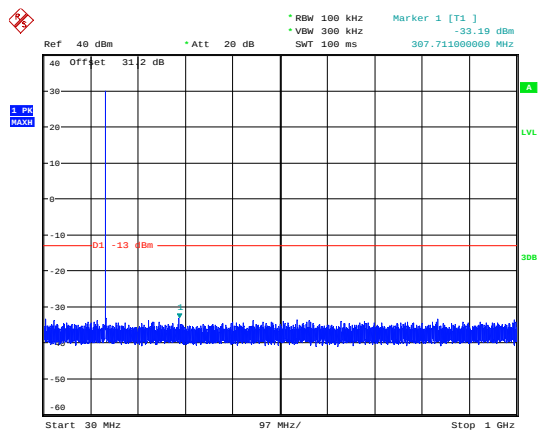
156.375 MHz



156.650 MHz

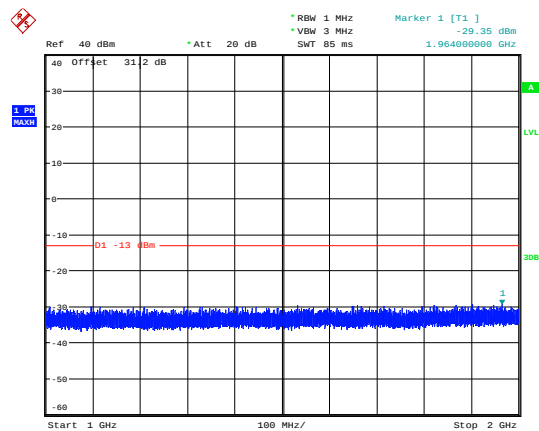


ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:44:32



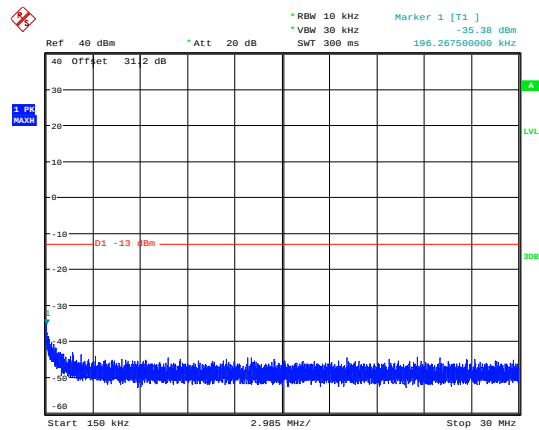
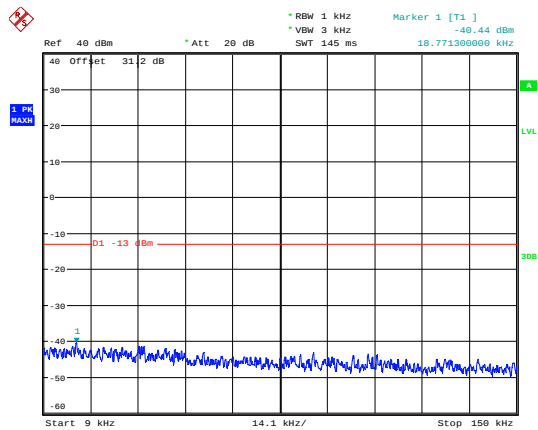
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:09:55

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:53:28



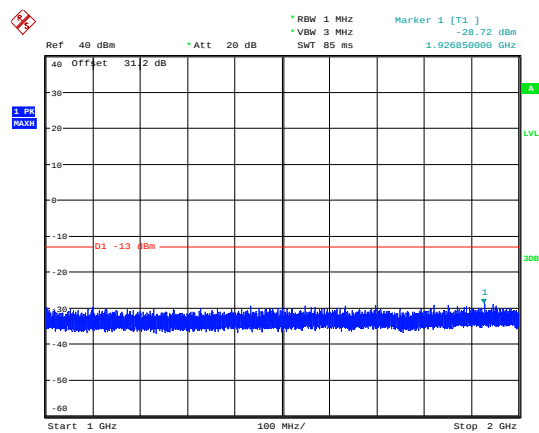
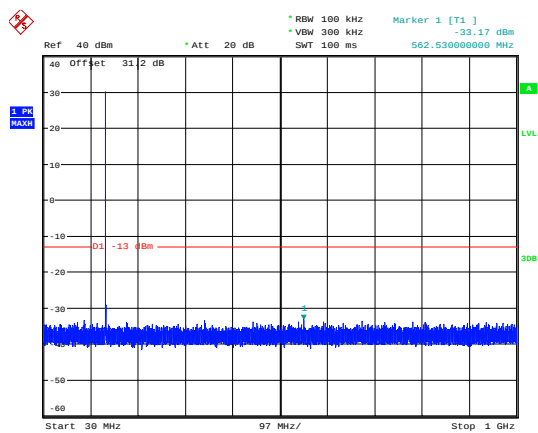
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:19:30

156.850 MHz



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:45:24

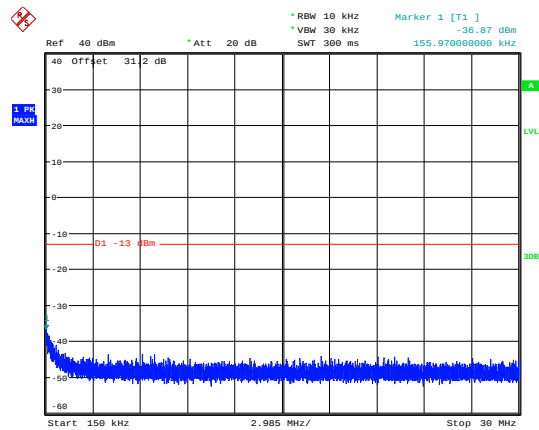
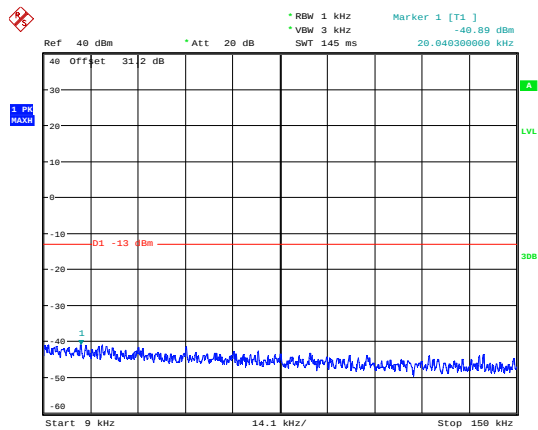
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:54:23



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:10:48

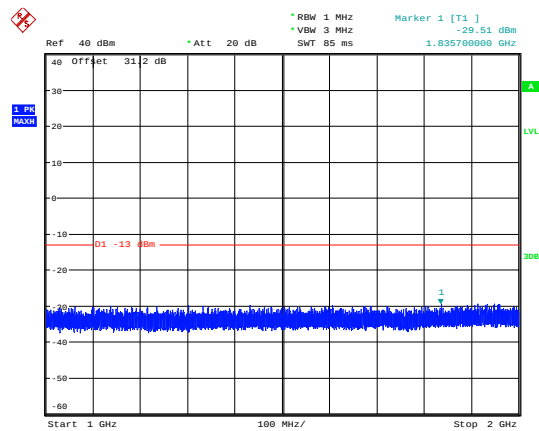
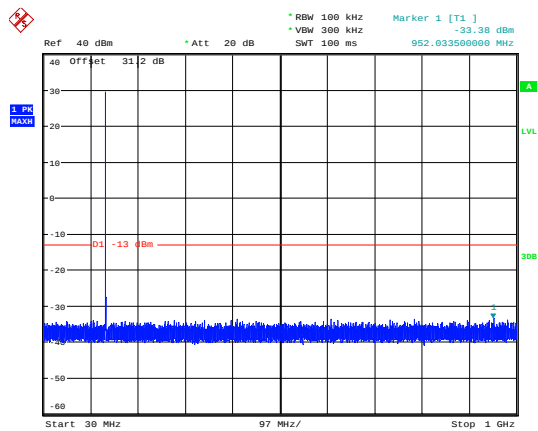
ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:20:21

156.875 MHz



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:46:42

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 19:56:33



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:12:01

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 4.SEP.2024 21:24:48

4.5 Suppression of Interference Aboard Ships

Serial Number:	2ON6-2	Test Date:	2024/9/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.6	Relative Humidity: (%)	47	ATM Pressure: (kPa)	100.2
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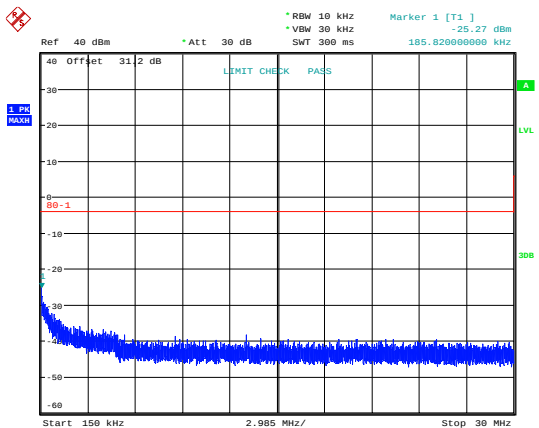
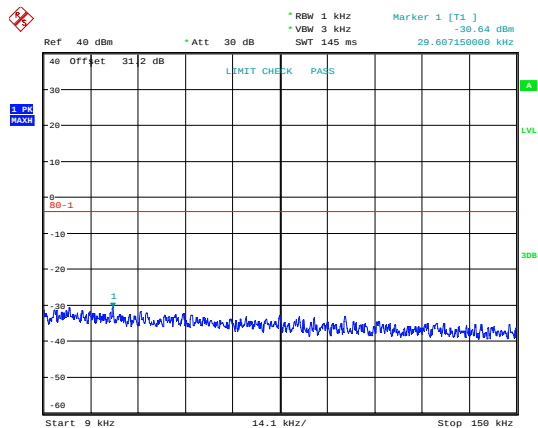
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
HP	RF Communications Test Set	8920A	3438A05209	2024/04/01	2025/03/31

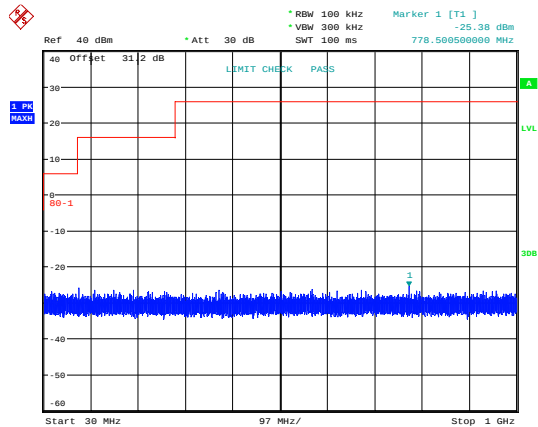
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Please refer to following plots (worst case).

156.700 MHz-High Power Level

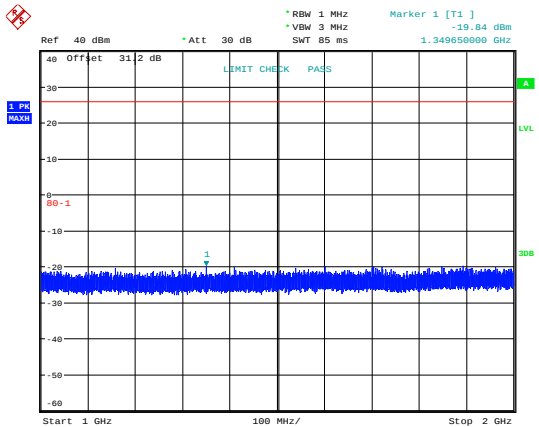


ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:28:25



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:30:23

ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:29:36



ProjectNo.:2403V21999E-RF Tester:Carl Xue
Date: 12.SEP.2024 21:31:57

4.6 Spurious Radiated Emissions

Serial Number:	2ON6-1	Test Date:	2024/8/5~2024/8/6
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Roinin Fu, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.6-24.7	Relative Humidity: (%)	53-61	ATM Pressure: (kPa)	100.5-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/01	2026/11/30
R&S	EMI Test Receiver	ESR3	102724	2024/02/29	2025/02/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2023/12/04	2024/12/03
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2023/12/04	2024/12/03
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2024/06/11	2025/06/10
Sonoma	Amplifier	310N	186165	2023/12/04	2024/12/03
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2024/07/15	2025/07/14
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
Radiated Emissions Above 1GHz					
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/06	2026/12/05
R&S	Spectrum Analyzer	FSV40	101591	2024/04/01	2025/03/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/01/15	2025/01/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/01/15	2025/01/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/04/01	2025/03/31
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2024/07/15	2025/07/14
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16

* 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:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

General:**Test performed at high power level:****30 MHz – 2 GHz:**

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 25 kHz, Frequency: 156.050 MHz								
312.100	H	29.07	-50.14	0.00	0.34	-50.48	-13.00	37.48
312.100	V	26.72	-50.60	0.00	0.34	-50.94	-13.00	37.94
468.150	H	20.79	-55.69	0.00	0.43	-56.12	-13.00	43.12
468.150	V	24.24	-48.60	0.00	0.43	-49.03	-13.00	36.03
624.200	H	21.82	-51.91	0.00	0.48	-52.39	-13.00	39.39
624.200	V	33.68	-37.61	0.00	0.48	-38.09	-13.00	25.09
780.250	H	27.60	-44.10	0.00	0.54	-44.64	-13.00	31.64
780.250	V	24.83	-43.34	0.00	0.54	-43.88	-13.00	30.88
936.300	H	24.19	-43.69	0.00	0.65	-44.34	-13.00	31.34
936.300	V	26.09	-39.33	0.00	0.65	-39.98	-13.00	26.98
1092.350	H	53.22	-49.01	7.36	0.67	-42.32	-13.00	29.32
1092.350	V	54.78	-47.92	7.36	0.67	-41.23	-13.00	28.23
1248.400	H	54.07	-48.80	7.80	0.68	-41.68	-13.00	28.68
1248.400	V	58.31	-45.16	7.80	0.68	-38.04	-13.00	25.04
1404.450	H	58.98	-44.81	8.23	0.71	-37.29	-13.00	24.29
1404.450	V	51.56	-52.27	8.23	0.71	-44.75	-13.00	31.75
1560.500	H	49.48	-54.59	8.57	0.80	-46.82	-13.00	33.82
1560.500	V	49.78	-54.35	8.57	0.80	-46.58	-13.00	33.58
FM 25 kHz, Frequency: 156.700 MHz								
313.400	H	39.89	-39.30	0.00	0.34	-39.64	-13.00	26.64
313.400	V	45.32	-31.97	0.00	0.34	-32.31	-13.00	19.31
470.100	H	44.83	-31.61	0.00	0.43	-32.04	-13.00	19.04
470.100	V	25.94	-46.83	0.00	0.43	-47.26	-13.00	34.26
626.800	H	21.35	-52.37	0.00	0.48	-52.85	-13.00	39.85
626.800	V	31.43	-39.81	0.00	0.48	-40.29	-13.00	27.29
783.500	H	24.80	-46.83	0.00	0.55	-47.38	-13.00	34.38
783.500	V	26.92	-41.18	0.00	0.55	-41.73	-13.00	28.73
940.200	H	23.76	-44.03	0.00	0.64	-44.67	-13.00	31.67
940.200	V	24.08	-41.26	0.00	0.64	-41.90	-13.00	28.90
1096.900	H	53.39	-48.76	7.37	0.67	-42.06	-13.00	29.06
1096.900	V	55.97	-46.66	7.37	0.67	-39.96	-13.00	26.96
1253.600	H	51.28	-51.55	7.81	0.68	-44.42	-13.00	31.42
1253.600	V	57.84	-45.58	7.81	0.68	-38.45	-13.00	25.45
1410.300	H	50.75	-53.02	8.25	0.72	-45.49	-13.00	32.49
1410.300	V	53.84	-49.97	8.25	0.72	-42.44	-13.00	29.44
1567.000	H	47.94	-56.20	8.58	0.80	-48.42	-13.00	35.42
1567.000	V	51.47	-52.73	8.58	0.80	-44.95	-13.00	31.95

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 25 kHz, Frequency:			157.425	MHz				
314.850	H	30.48	-48.69	0.00	0.34	-49.03	-13.00	36.03
314.850	V	27.95	-49.31	0.00	0.34	-49.65	-13.00	36.65
472.275	H	21.23	-55.17	0.00	0.43	-55.60	-13.00	42.60
472.275	V	25.03	-47.65	0.00	0.43	-48.08	-13.00	35.08
629.700	H	22.35	-51.35	0.00	0.48	-51.83	-13.00	38.83
629.700	V	32.75	-38.44	0.00	0.48	-38.92	-13.00	25.92
787.125	H	26.61	-44.95	0.00	0.58	-45.53	-13.00	32.53
787.125	V	21.73	-46.29	0.00	0.58	-46.87	-13.00	33.87
944.550	H	22.53	-45.15	0.00	0.60	-45.75	-13.00	32.75
944.550	V	26.45	-38.81	0.00	0.60	-39.41	-13.00	26.41
1101.975	H	51.64	-50.47	7.39	0.67	-43.75	-13.00	30.75
1101.975	V	55.48	-47.13	7.39	0.67	-40.41	-13.00	27.41
1259.400	H	50.21	-52.58	7.83	0.68	-45.43	-13.00	32.43
1259.400	V	56.35	-47.01	7.83	0.68	-39.86	-13.00	26.86
1416.825	H	49.05	-54.69	8.27	0.72	-47.14	-13.00	34.14
1416.825	V	54.84	-48.95	8.27	0.72	-41.40	-13.00	28.40
1574.250	H	45.49	-58.73	8.59	0.81	-50.95	-13.00	37.95
1574.250	V	51.27	-53.00	8.59	0.81	-45.22	-13.00	32.22

Low Power Only:

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 25 kHz, Frequency: 156.850 MHz								
313.700	H	30.48	-48.71	0.00	0.34	-49.05	-13.00	36.05
313.700	V	27.95	-49.33	0.00	0.34	-49.67	-13.00	36.67
470.550	H	21.23	-55.20	0.00	0.43	-55.63	-13.00	42.63
470.550	V	25.03	-47.72	0.00	0.43	-48.15	-13.00	35.15
627.400	H	22.35	-51.36	0.00	0.48	-51.84	-13.00	38.84
627.400	V	32.75	-38.48	0.00	0.48	-38.96	-13.00	25.96
784.250	H	26.61	-45.01	0.00	0.56	-45.57	-13.00	32.57
784.250	V	21.73	-46.35	0.00	0.56	-46.91	-13.00	33.91
941.100	H	22.53	-45.23	0.00	0.63	-45.86	-13.00	32.86
941.100	V	26.45	-38.87	0.00	0.63	-39.50	-13.00	26.50
1097.950	H	51.64	-50.49	7.37	0.67	-43.79	-13.00	30.79
1097.950	V	55.48	-47.13	7.37	0.67	-40.43	-13.00	27.43
1254.800	H	50.21	-52.61	7.81	0.68	-45.48	-13.00	32.48
1254.800	V	56.35	-47.06	7.81	0.68	-39.93	-13.00	26.93
1411.650	H	49.05	-54.71	8.25	0.72	-47.18	-13.00	34.18
1411.650	V	54.84	-48.97	8.25	0.72	-41.44	-13.00	28.44
1568.500	H	45.49	-58.67	8.58	0.80	-50.89	-13.00	37.89
1568.500	V	51.27	-52.94	8.58	0.80	-45.16	-13.00	32.16

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 Transmitter Frequency Tolerances

Serial Number:	2ON6-2	Test Date:	2024/8/24-2024/9/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.5-26.6	Relative Humidity: (%)	47-61	ATM Pressure: (kPa)	99.9-100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
YINSAIGE	Coaxial Cable	SS402	SJ0100001	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	2024/04/01	2025/03/31
UNI-T	Multimeter	UT39A+	C210582554	2024/01/23	2025/01/22
GWINSTEK	DC Power Supply	SPS3610	D33251	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).

Test Data:**General:**

FM,25kHz, Reference Frequency: 156.700MHz,Limit: ±10.0 ppm			
Temperature (°C)	Voltage Supplied (V _{DC})	Measured Frequency (MHz)	Frequency Error (ppm)
-30	6.0	156.6998596	-0.90
-20		156.6998482	-0.97
-10		156.6998375	-1.04
0		156.6998283	-1.10
10		156.6998184	-1.16
20		156.6998077	-1.23
30		156.6997989	-1.28
40		156.6997878	-1.35
50		156.6997781	-1.42
20	5.1	156.6998235	-1.13
20	6.9	156.6997906	-1.34

Low Power Only:

FM,25kHz, Reference Frequency: 156.850MHz, Limit: ±10.0 ppm			
Temperature (°C)	Voltage Supplied (V _{DC})	Measured Frequency (MHz)	Frequency Error (ppm)
-30	6.0	156.8498565	-0.91
-20		156.8498479	-0.97
-10		156.8498364	-1.04
0		156.8498273	-1.10
10		156.8498168	-1.17
20		156.8498077	-1.23
30		156.8497963	-1.30
40		156.8497871	-1.36
50		156.8497772	-1.42
20	5.1	156.8498249	-1.12
20	6.9	156.8497935	-1.32

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403V21999E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2403V21999E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403V21999E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

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