

TEST REPORT

FCC ID: 2AIZN-X6877

Product: Mobile Phone

Model No.: X6877

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E260100001A-Part25

Issued Date: 26 January 2026

Issued for:

INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI
STREET FOTAN NT HONGKONG

Issued By:

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1. Test Certification

Product:	Mobile Phone
Model No.:	X6877
Trade Mark:	Infinix
Applicant:	INFINIX MOBILITY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Date of Test:	07 November 2025 to 26 January 2026
Applicable Standards:	FCC CFR47 PART 25 ISED RSS-170 ISSUE 3 AMENDED

The above equipment has been tested by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



(Wang Xiang)

Checked By:



(Qin Shuiquan)

Approved By:



(Li Huaibi)

Date:



2. Test Result Summary

Requirement	CFR 47 Section	Result
RF Output Power Verification	25.204 (a)	PASS
Occupied Bandwidth	2.1049	PASS
Emissions Mask - within 250% of Authorized Bandwidth	25.202 (f)(1)&(2)	PASS
Out of Band Emissions	25.202 (f)(3)	PASS
Additional Unwanted Emission (1559-1610MHz)	25.216 (c)&(f)&(h) FCC 03-283	PASS
Carrier-Off State Emissions (1559-1610MHz)	25.216 (i) FCC 03-283	PASS
Frequency Stability	25.202 (d)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Mobile Phone
Model :	X6877
Trade Mark:	Infinix
Operation Frequency:	L band:1626.5MHz-1660.5MHz(TX),1525MHz-1559MHz (RX)
Channel Separation:	31.25kHz
Number of Channel:	1087
Modulation Type:	$\pi/4$ -DQPSK
Antenna Type:	Integral Antenna
Antenna Gain:	-2.57dBi
Operating Voltage:	Adapter:U1000XSA Input: 100-240V~50/60Hz 2.3A Output: 5.0V---3.0A 15.0W or 5.0-11.0V---9.1A MAX or 4.0-20.0V ---5A 100.0W MAX Rechargeable Li-ion Polymer Battery :BL-68DX Nominal Voltage: 3.82V Rated Capacity:6840mAh/26.13Wh Typical Capacity:7000mAh/26.74Wh Limited Charge Voltage:4.53V Wireless charger:XMC30 Input: 5.0V---2A 9.0V---2A 14.0V---2.2A Output: 5W/7.5W/10W/30W
Remark:	N/A.

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Note: 1. N/A stands for no applicable.

2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification & Testing Group (Shenzhen) Co., Ltd assumes no responsibility.

3. The laboratory shall be responsible for all information in the report, except for the information provided by the client. The data provided by the client should be clearly identified. In addition, when the information provided by the client may affect the validity of the results, a disclaimer should be included in the report. When the laboratory is not responsible for sampling (such as when the sample is provided by the customer), the results should be declared in the report as applicable to the received sample.

Operation Frequency each of channel

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	1626.56250	341	1637.15625	681	1647.78125	1021	1658.40625
2	1626.59375	342	1637.18750	682	1647.81250	1022	1658.43750
...	...	...	...	...	...	...	...
69	1628.65625	409	1639.28125	749	1649.90625	1086	1660.43750
70	1628.68750	410	1639.31250	750	1649.93750	1087	1660.46875
...	...	...	...	...	...	...	...
137	1630.78125	477	1641.40625	817	1652.03125	...	...
138	1630.81250	478	1641.43750	818	1652.06250	...	...
...	...	...	...	...	...	...	...
205	1632.90625	543	1643.46875	885	1654.15625	...	...
206	1632.93750	544	1643.50000	886	1654.18750	...	...
...	...	...	...	...	...	...	...
273	1635.03125	613	1645.65625	953	1656.28125	...	...
274	1635.06250	614	1645.68750	954	1656.31250	...	...

Remark: Channel 1, 544 & 1087 have been tested for $\pi/4$ -DQPSK modulation mode.

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel with Fully-charged battery
The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China** of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA	ANAB - Certificate Number: AT-3951
China	CNAS (Registration Number: L3732)
Canada	ISED (CAB identifier: CN0178)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

5.3. Measurement Uncertainty

No.	Item	MU
1	Duty Cycle and Tx-Sequence and Tx-Gap	$\pm 1\%$
2	Dwell Time and Minimum Frequency Occupation	$\pm 1.2\%$
3	Medium Utilisation Factor	$\pm 1.3\%$
4	Occupied Channel Bandwidth	$\pm 2.4\%$
5	Transmitter Unwanted Emission in the out-of Band	$\pm 1.3\%$
6	Transmitter Unwanted Emissions in the Spurious Domain	$\pm 2.5\%$
7	Conducted Emission Test	$\pm 3.2\text{dB}$
8	RF power, conducted	$\pm 0.16\text{dB}$
9	Spurious emissions, conducted	$\pm 0.21\text{dB}$
10	All emissions, radiated(<1GHz)	$\pm 4.7\text{dB}$
11	All emissions, radiated(>1GHz)	$\pm 4.7\text{dB}$
12	Temperature	$\pm 0.5^{\circ}\text{C}$
13	Humidity	$\pm 2.0\%$

NOTE:1.The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

2. The U_{lab} is less than U_{cispr} , compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows : any additionan uncertainty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

5.4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	--	-	--
EMI Test Receiver	R&S	ESCI	100005	11/05/2025	11/04/2026
LISN	AFJ	LS16	16010222119	11/05/2025	11/04/2026
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2025	11/04/2026
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2025	11/04/2026
Coaxial cable	Megalon	LMR400	N/A	11/05/2025	11/04/2026
GPIO cable	Megalon	GPIO	N/A	11/05/2025	11/04/2026
Spectrum Analyzer	R&S	FSU	100114	11/05/2025	11/04/2026
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2025	11/04/2026
Pre-Amplifier	CDSI	PAP-1G18-38	--	11/05/2025	11/04/2026
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2025	7/28/2026
9*6*6 Anechoic	--	--	--	11/05/2025	11/04/2026
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	11/05/2025	11/04/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2025	11/04/2026
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2025	11/04/2026
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	11/05/2025	11/04/2026
Loop Antenna	EMCO	6502	00042960	11/05/2025	11/04/2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2025	11/04/2026
Power meter	Anritsu	ML2487A	6K00003613	11/05/2025	11/04/2026
Power sensor	Anritsu	MX248XD	--	11/05/2025	11/04/2026
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2025	11/04/2026

6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is -2.57dBi. Please refer to the attached "X6877 Internal Photo" for the antenna location	

6.2. Conducted Output Power

6.2.1. Test Specification

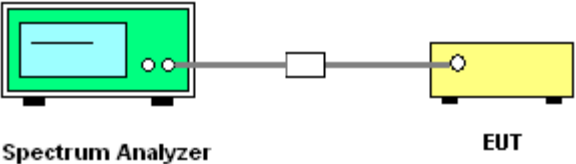
Test Requirement:	FCC: § 25.204
Test Method:	ANSI C63.26:2015
Limit:	The limit is 70 dBm
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Keep transmitting on the chosen frequency
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
Test Result:	PASS

6.2.2. Test Data

Frequency (MHz)	Maximum conducted output power (dBm)	Antenna Gain (dBi)	EIRP	Limit (dBm)	Result
			(dBm)		
1626.53125	28.06	-2.57	25.49	70	PASS
1643.5	28.15	-2.57	25.58	70	PASS
1660.46875	27.94	-2.57	25.37	70	PASS

6.3. OCCUPIED BANDWIDTH

6.3.1. Test Specification

Test Requirement:	FCC: §2.1049 ISSED RSS-170 and RSS-GEN
Test Method:	ANSI C63.10:2020
Limit:	N/A
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Keep transmitting on the chosen frequency
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; $1\% \leq RBW \leq 5\%$ of the 20 dB bandwidth; $VBW \geq 3RBW$; Sweep = auto; Detector function = peak; Trace = max hold. 5. Measure and record the results in the test report.
Test Result:	PASS

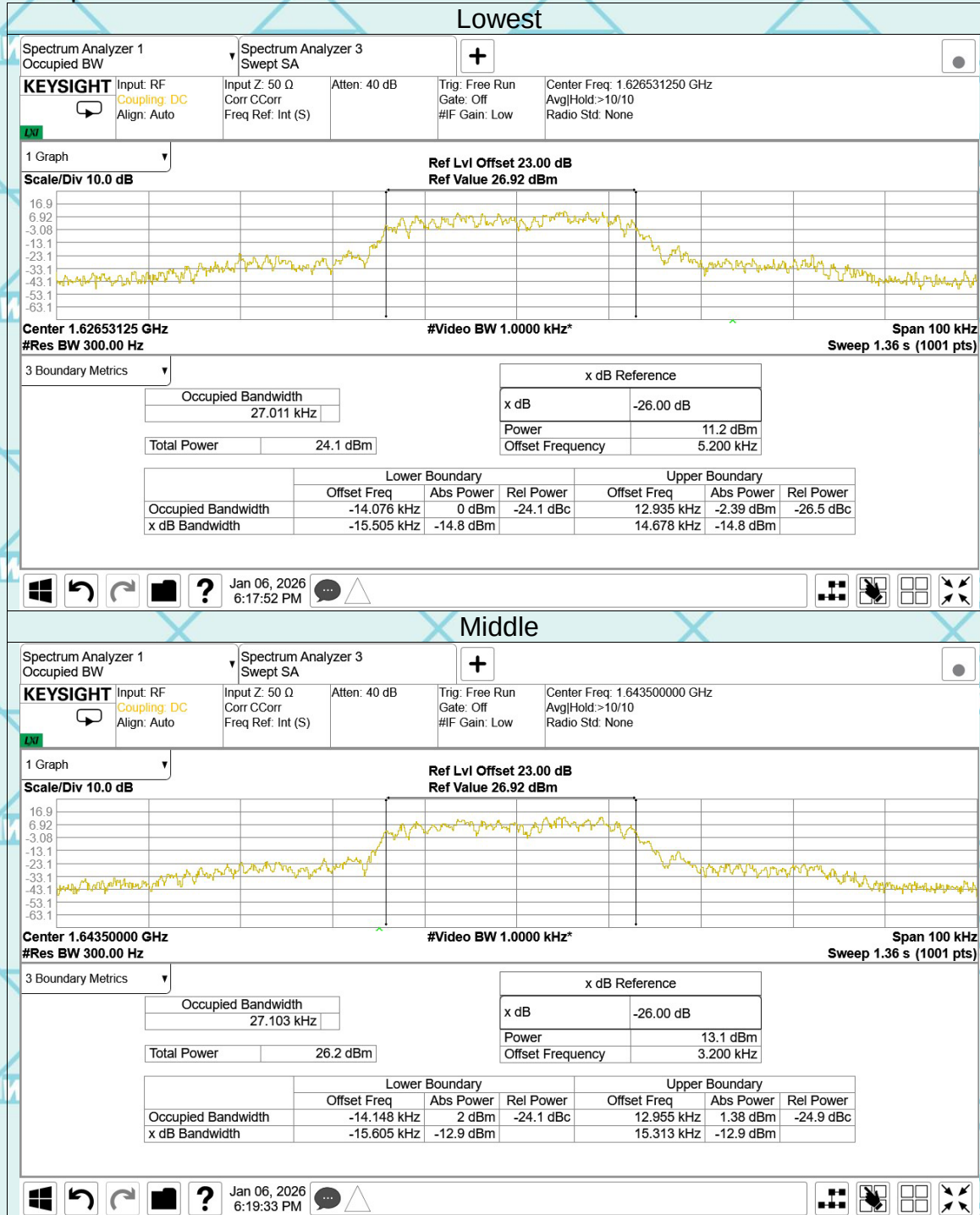
6.3.2. Test data

Test channel	99% BW (kHz)
Lowest	27.011
Middle	27.103
Highest	27.094

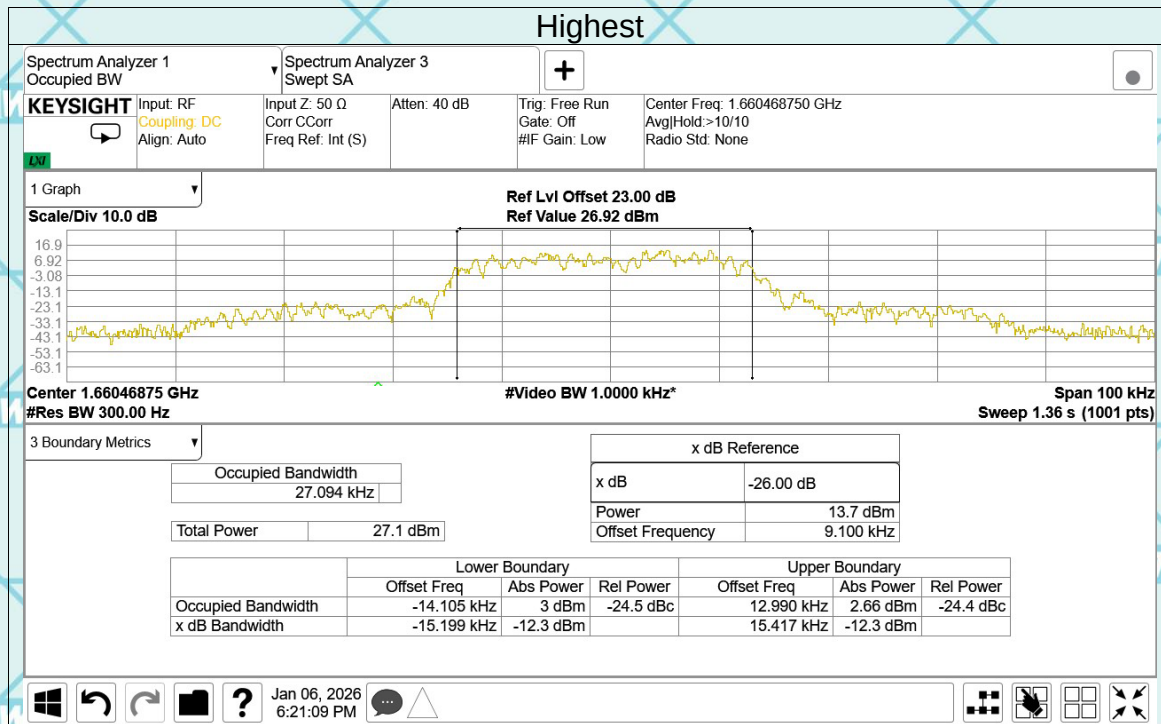
Test plots as follows:

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Test Graphs

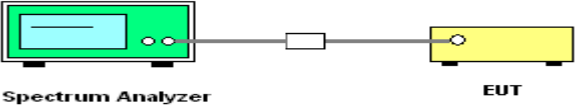


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6.4. EMISSIONS MASK WITHIN 250% OF AUTHORIZED BANDWIDTH

6.4.1. Test Specification

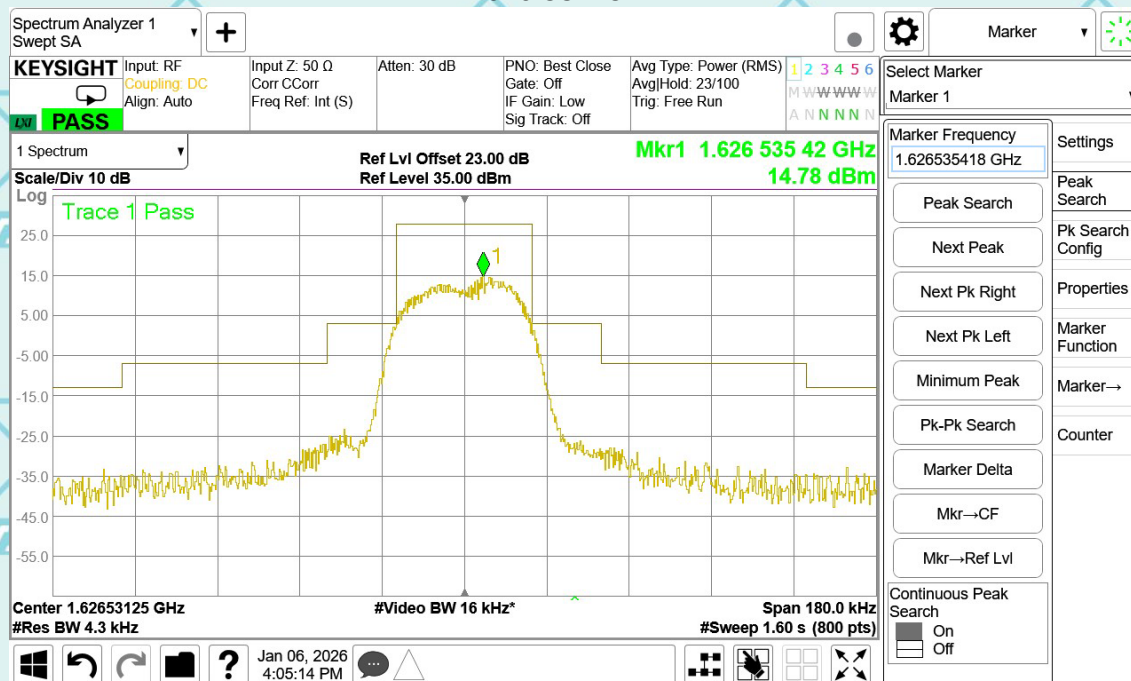
Test Requirement:	FCC §25.202 and ISSED RSS-170: 5.4.3.1
Test Method:	ANSI C63.26:2015
Limit:	Emission limitations. Except for SDARS terrestrial repeaters and as provided for in paragraph (i), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the schedule set forth in paragraphs (f)(1) through (f)(4) of this section. The out-of-band emissions of SDARS terrestrial repeaters shall be attenuated in accordance with the schedule set forth in paragraph (h) of this section. (1) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: 25 dB; (2) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: 35 dB;
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Keep transmitting on the chosen frequency
Test Procedure:	The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The channel edge emissions were measured on the low, mid and high channels. The limits within 250% of the authorized bandwidth are relative to the total in-band (channel) power. The measurement bandwidth (RBW) is set to ≥ 4 kHz and VBW set to at least 3 times the RBW. To measure the average value of the emissions the detector is set to rms while observing the minimum required number of points as detailed in ANSI C63.26 for average rms measurements. The sweep time is set to 2ms multiplied by the number of points to obtain the average over 2ms. Multiple sweeps with max hold enabled are made to capture the maximum average value.
Test Result:	PASS

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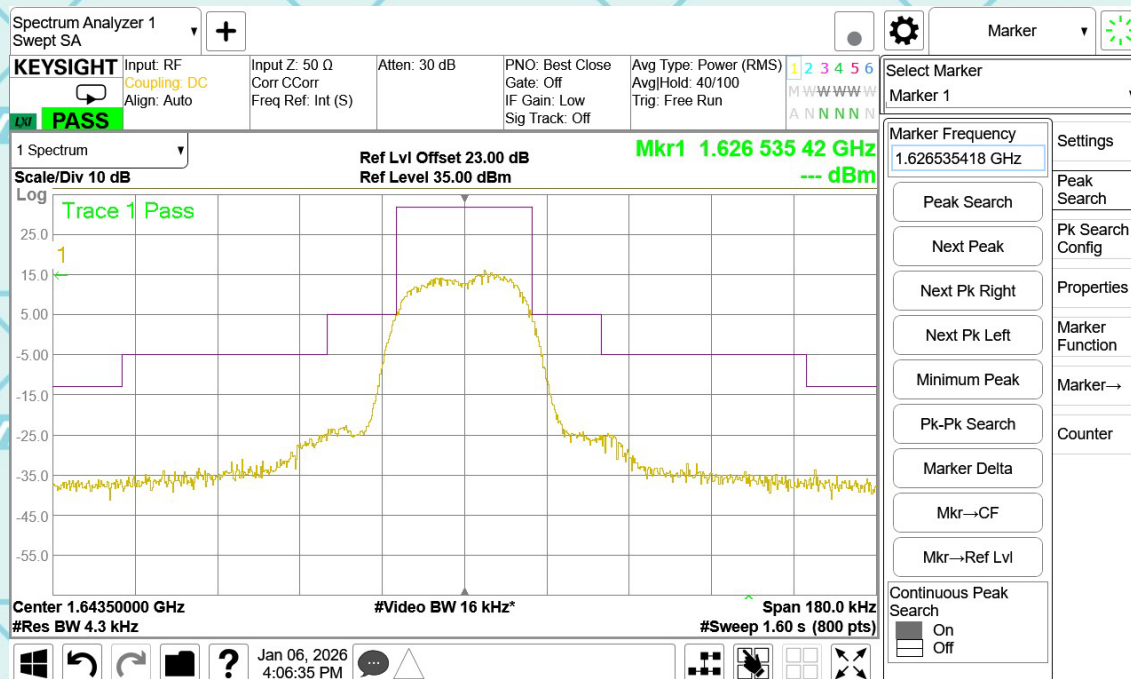
6.4.2. Test data

30kHz Authorized Bandwidth:

1610.53125MHz



1643.5MHz



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1660.46875MHz

