
FCC Test Report

Report No.: AGC16129260201FR01

FCC ID : MMAMXT275

APPLICATION PURPOSE : Class II Permissive Change

PRODUCT DESIGNATION : MOBILE GMRS TRANSCEIVER

BRAND NAME : N/A

MODEL NAME : MXT275

APPLICANT : Midland Radio Corporation

DATE OF ISSUE : Mar. 31, 2026

STANDARD(S) : FCC Part 95 Subpart E

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 31, 2026	Valid	Initial Release

Note: The original test report TR_2945-21_FCC_PT95_1 (dated June 16, 2021 and tested June 16, 2021) was modified on Mar. 31, 2026, including the following changes and additions:

- Q6 change from AFT09MS015NT1to RD10MMS2.

Based on the above changes, update Spurious Radiated Emission and Spurious Emission on Antenna Port.

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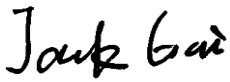
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1. General Information

Applicant	Midland Radio Corporation
Address	5900 Parretta Drive Kansas City Missouri 64120-2134 United States
Manufacturer	Midland Radio Corporation
Address	5900 Parretta Drive Kansas City Missouri 64120-2134 United States
Factory	Midland Radio Corporation
Address	5900 Parretta Drive Kansas City Missouri 64120-2134 United States
Product Designation	MOBILE GMRS TRANSCEIVER
Brand Name	N/A
Test Model	MXT275
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Feb. 03, 2026
Date of Test	Feb. 03, 2026~Mar. 12, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-GMRS-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Bibo Zhang (Project Engineer)	Mar. 31, 2026
Reviewed By		
	Jack Gui (Reviewer)	Mar. 31, 2026
Approved By		
	Angela Li (Authorized Officer)	Mar. 31, 2026

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2. Product Information

2.1 Product Technical Description

Communication Type	Voice/Tone only
Operation Frequency Range	☒ 462.5500-462.7250MHz (GMRS 462MHz Main channels)
	☒ 462.5625-462.7125MHz (GMRS 462MHz Interstitial channels)
	☒ 467.5500-467.7250MHz (GMRS 467MHz Main channels)
	☐ 467.5625-467.7125MHz (GMRS 467MHz Interstitial channels)
Hardware Version	V1.0
Software Version	V1.0
Modulation Type	FM
Channel Separation	☒ 12.5kHz ☒ 25kHz
Number of Channels	23Channels
Rated Output Power	5W/15W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)
Antenna Designation	External 50 ohm connector
Antenna Gain	2.15dBi
Power Supply	DC 13.8V

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2.2 Test Frequency List

According to ANSI C63.26 section 5.1.2.1:

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

Frequency range Over which EUT operates	Number of Frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

Channel. No	Frequency (MHz)	Rated Power	Channel. No	Frequency (MHz)	Rated Power
1	462.5625	5W	15	462.5500	5W/15W
2	462.5875		16	462.5750	
3	462.6125		17	462.6000	
4	462.6375		18	462.6250	
5	462.6625		19	462.6500	
6	462.6875		20	462.6750	
7	462.7125		21	462.7000	
8	/	/	22	462.7250	5W/15W
9	/		23	467.5500	
10	/		24	467.5750	
11	/		25	467.6000	
12	/		26	467.6250	
13	/		27	467.6500	
14	/		28	467.6750	
			29	467.7000	
			30	467.7250	

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **MMAMXT275**, filing to comply with Part 2, Part 95 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 95	Personal Radio Services
2	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
3	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
4	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	KDB 888861 D01	888861 D01 Part 95 GMRS FRS v01

2.5 Calculation of Emission Indicators

FCC Rules and Regulations Part 2.202: Necessary Bandwidth and Emission Bandwidth

For FM Mode (Channel Spacing: 12.5kHz)

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

For FM Mode (Channel Spacing: 25kHz)

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 5.0 \text{ kHz}) = 16 \text{ kHz} = 16K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 25 kHz channel spacing FM mode is 16K0F3E.

2.6 Special Accessories

Not available for this EUT intended for grant.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

2.8 Antenna Requirement

Excerpt from §95.1787 of the FCC Rules/Regulations:

The antenna of each GMRS Transmitter type must meet the following requirements.

- (1) The antenna must be a non-removable integral part of the GMRS unit.
- (2) Digital data transmissions may contain location information, or requesting location information from one or more other GMRS or FRS units, or containing a brief text message to another specific GMRS or FRS unit. Digital data transmissions may be initiated by a manual action of the operator or on an automatic or periodic basis, and a GMRS unit receiving an interrogation request may automatically respond with its location.
- (3) GMRS units must not be capable of transmitting digital data on the 467 MHz main channels.
- (4) Digital data transmissions must not exceed one second in duration.

User	Applicable Conditions
☒	This GMRS device does not support digital transmission
☐	The antenna of this device is permanently attached.
☒	Configuration with external detachable antenna
☒	This GMRS device has a fixed antenna port
Conclusion: The unit complies with the requirement of §95.1787.	

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions	Extreme Conditions
Temperature range (°C)	15 - 35	-30 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 13.8V	LV DC 11.73V/HV DC 15.87V
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

3.4 Measurement Uncertainty

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

Test Items	Measurement Uncertainty
Frequency stability	$\pm 0.5\%$
Transmitter power conducted	$\pm 0.8\text{dB}$
Transmitter power Radiated	$\pm 1.3\text{dB}$
Conducted spurious emission 9kHz-40 GHz	$\pm 2.7\text{dB}$
Conducted Emission	$\pm 3.2\text{ dB}$
Radiated Emission below 1GHz	$\pm 3.9\text{ dB}$
Radiated Emission above 1GHz	$\pm 4.8\text{ dB}$
Occupied Channel Bandwidth	$\pm 2\%$
FM deviation	$\pm 2\%$
Audio level	$\pm 0.98\text{dB}$
Low Pass Filter Response	$\pm 0.65\text{dB}$
Modulation Limiting	0.42 %
Transient Frequency Behavior	6.8 %

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E086	Spectrum Analyzer	KEYSIGHT	N9020A	MY53300860	2025-05-08	2026-05-07
☒	AGC-EM-E002	Wireless Connectivity Tester	HP	8920B	US35010161	2025-05-08	2026-05-07
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	AGC-EM-A007	30dB Attenuator	Weinachel	58-30-33	ML030	2025-05-31	2027-05-30
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-A004	Power Splitter	Agilent	11667B	N/A	2025-05-08	2027-05-07

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2025-01-15	2027-01-14
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☐	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☐	AGC-EM-E021	Pre-amplifier	MITEQ	AM-4A-000115	1465421	2024-05-28	2026-05-27
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2025-05-08	2026-05-07
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☒	AGC-EM-A088	UHF Filter	Microwave	N25155M2	498705	2025-05-21	2026-05-20

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S011	RSE Test System	Tonscend	TS ⁺ Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Load Antenna	HG-E10	Amphenol	Terminator DC -3G 50W	--

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Hand microphone	N/A	N/A	N/A	0.8m unshielded
2	Power Line	N/A	N/A	N/A	1.5m unshielded

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§95.1779& 2.1051	Spurious Emission on Antenna Port	Pass
2	§95.1779& 2.1053	Spurious Radiated Emission	Pass

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5. Description of Test Modes

The EUT (**MOBILE GMRS TRANSCEIVER**) has been tested under normal operating condition. (GMRS TX) are chosen for testing at each channel separation.

No.	Test Mode Description	Channel Separation
1	GMRS TX Channel 4	12.5 kHz
3	GMRS TX Channel 19	12.5 kHz
4	GMRS TX Channel 27	25 kHz

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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8. Spurious Radiated Emission

8.1 Provisions Applicable

Standard Applicable [FCC Part 95.1779] According to FCC section 95.1779, the unwanted emission should be attenuated below TP by at least $43 + 10 \log$ (Transmit Power) dB

8.2 Measurement Procedure

Each GMRS transmitter type must be designed to comply with the applicable unwanted emissions limits in this section.

- a) Emission masks. Emission masks applicable to transmitting equipment in the GMRS are defined by the requirements in the following table. The numbers in the attenuation requirements column refer to rule paragraph numbers under paragraph (b) of this section.

Emission types filter	Attenuation Requirements
A1D, A3E, F1D, G1D, F2D, F3E, G3E with audio filter	(1), (2), (7)
A1D, A3E, F1D, G1D, F3E, G3E without audio filter	(3), (4), (7)
H1D, J1D, R1D, H3E, J3E, R2E	(5), (6), (7)

- 1) Filtering noted for GMRS transmitters refers to the requirement in §95.1775(e).
- 2) Unwanted emission power may be measured as either mean power or peak envelope power, provided that the transmitter output power is measured the same way.
- b) Attenuation requirements. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) by at least:
 - 1) 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
 - 2) 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.
 - 3) $83 \log (f_d \div 5)$ dB on any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5 kHz up to and including 10 kHz.
 - 4) $116 \log (f_d \div 6.1)$ dB or $50 + 10 \log (P)$ dB, whichever is the lesser attenuation, on any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz), of more than 10 kHz up to and including 250% of the authorized bandwidth.
 - 5) 25 dB on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 150% of the authorized bandwidth.
 - 6) 35 dB on any frequency removed from the center of the authorized bandwidth by more than 150% up to and including 250% of the authorized bandwidth.
 - 7) $43 + 10 \log (P)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

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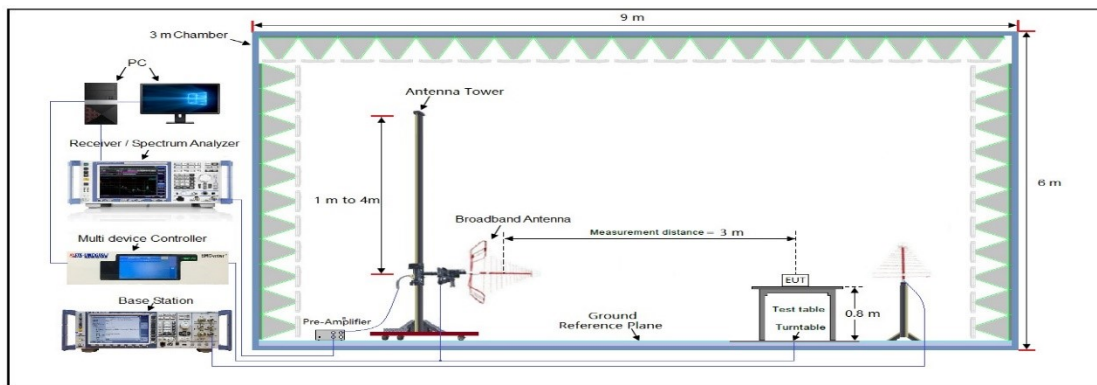
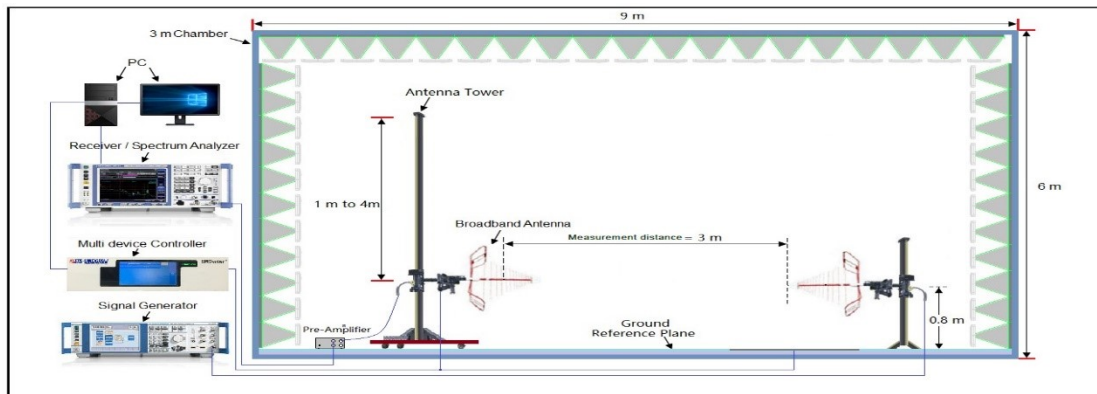
● **Detailed Overview of the Test Method is as Follows:**

- 1) EUT was placed on a 0.8 or 1.5meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made. The radiated emission measurements of all transmit frequencies in all channels were measured with peak detector.
- 2) A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3) The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
- 4) The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5) A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test
- 6) The measurement results are obtained as described below: $\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} - \text{Ga}$ The measurement results are amend as described below: $\text{Power(EIRP)} = \text{PMea} - \text{Pcl} - \text{Ga}$
- 7) This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 8) ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.
- 9) Test the EUT in the lowest channel, the middle channel the Highest channel

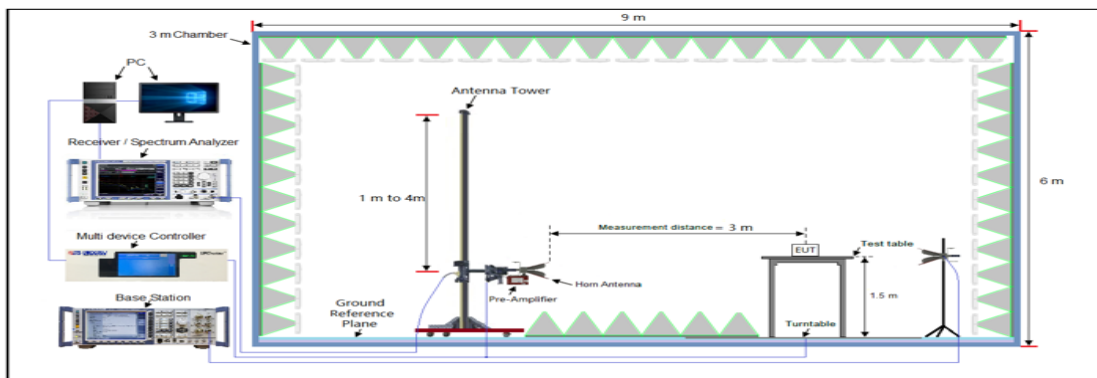
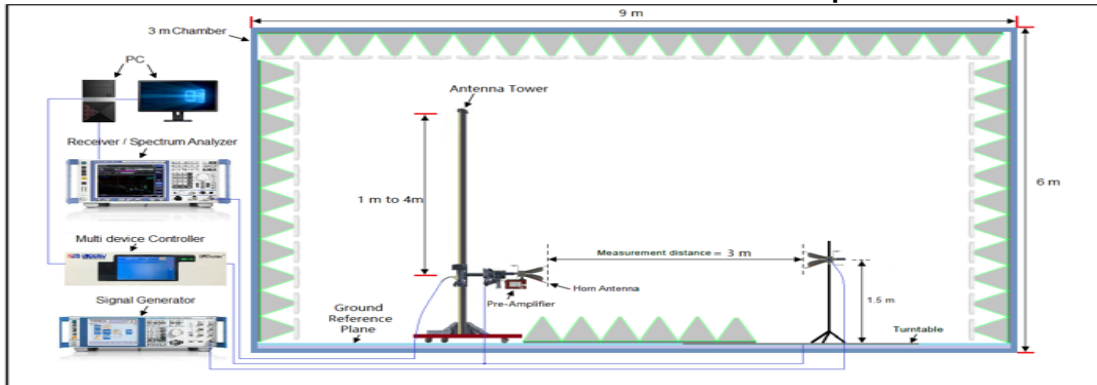
8.3 Measurement Setup

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Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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8.4 Measurement Result

Preliminary calculation	Final Result
At least $43+10 \log (P) = 43+10 \log (5) = 49.99$ (dB)	Limit=P- Preliminary calculation= $36.99-49.99=-13$ dBm
At least $43+10 \log (P) = 43+10 \log (15) = 54.76$ (dB)	Limit=P- Preliminary calculation= $41.76-54.76=-13$ dBm

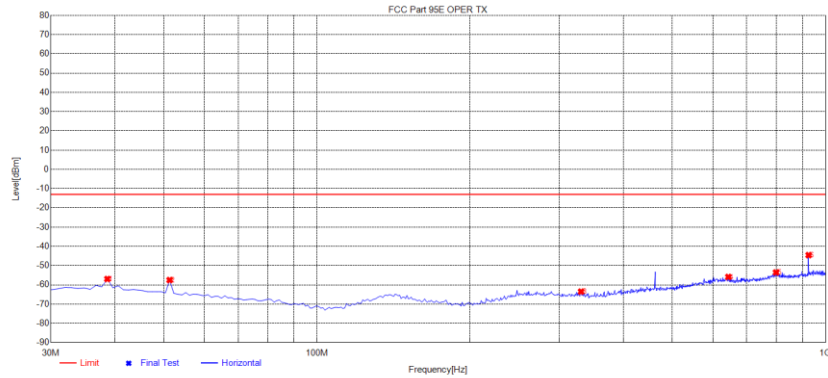
1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss -Pre-amplifier. (Above 1 GHz)
3. Margin=Limit- Level

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

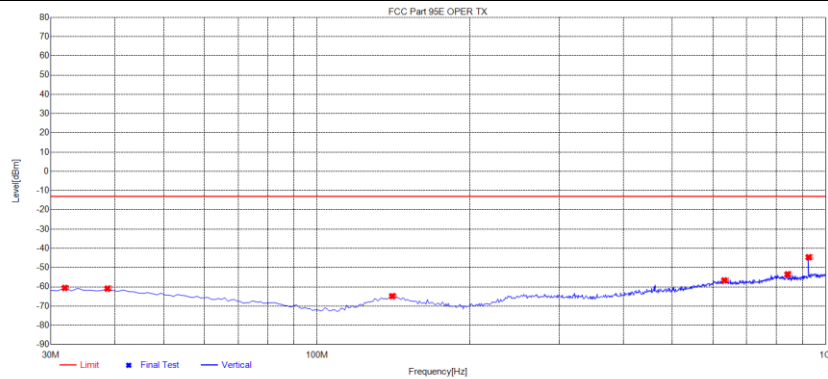
Radiated Emissions 30MHz to 1GHz

Test Mode:	TX-CH4-12.5kHz-5W	Polarity:	Horizontal
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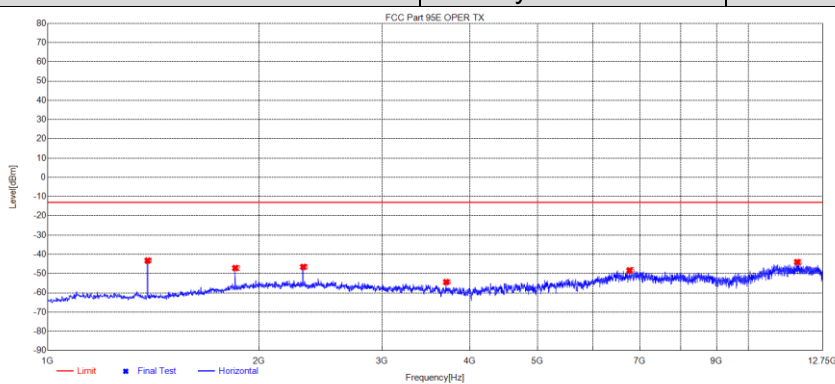
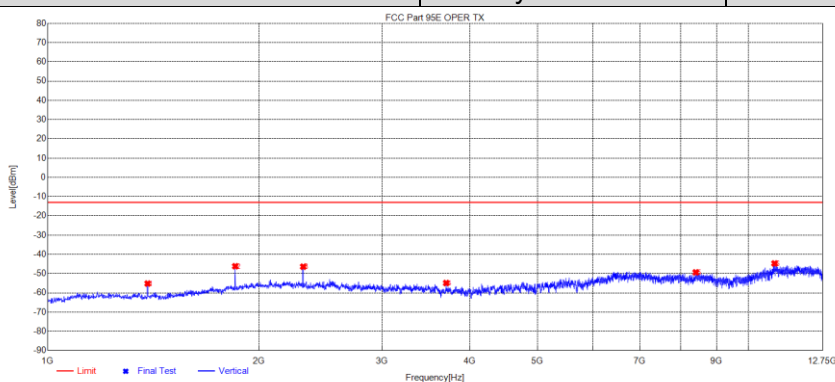
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	38.73	-86.59	-56.95	-13.00	43.95	29.64	315	Horizontal
2	51.34	-84.99	-57.49	-13.00	44.49	27.50	315	Horizontal
3	330.7	-90.62	-63.50	-13.00	50.50	27.12	10	Horizontal
4	644.01	-90.29	-55.88	-13.00	42.88	34.41	27	Horizontal
5	799.21	-90.64	-53.55	-13.00	40.55	37.09	360	Horizontal
6	926.28	-82.09	-44.55	-13.00	31.55	37.54	211	Horizontal

Test Mode:	TX-CH4-12.5kHz-5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	31.94	-90.12	-60.55	-13.00	47.55	29.57	205	Vertical
2	38.73	-90.54	-60.90	-13.00	47.90	29.64	245	Vertical
3	140.58	-91.80	-64.83	-13.00	51.83	26.97	0	Vertical
4	632.37	-91.01	-56.63	-13.00	43.63	34.38	189	Vertical
5	841.89	-89.83	-53.49	-13.00	40.49	36.34	172	Vertical
6	926.28	-82.16	-44.62	-13.00	31.62	37.54	205	Vertical

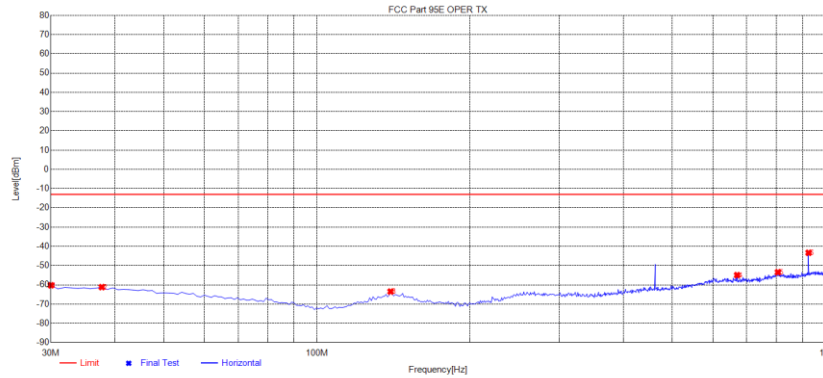
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Radiated Emissions Above 1GHz								
Test Mode:	TX-CH4-12.5kHz-5W			Polarity:			Horizontal	
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1387.7888	-39.13	-43.24	-13.00	30.24	-4.11	358	Horizontal
2	1850.7851	-47.29	-47.11	-13.00	34.11	0.18	106	Horizontal
3	2313.7814	-48.85	-46.52	-13.00	33.52	2.33	213	Horizontal
4	3701.5952	-56.77	-54.39	-13.00	41.39	2.38	322	Horizontal
5	6761.6012	-56.34	-48.33	-13.00	35.33	8.01	360	Horizontal
6	11729.998	-57.33	-44.03	-13.00	31.03	13.30	341	Horizontal
Test Mode:	TX-CH4-12.5kHz-5W			Polarity:			Vertical	
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1387.7888	-51.05	-55.16	-13.00	42.16	-4.11	184	Vertical
2	1850.7851	-46.35	-46.17	-13.00	33.17	0.18	155	Vertical
3	2313.7814	-48.72	-46.39	-13.00	33.39	2.33	234	Vertical
4	3701.5952	-57.27	-54.89	-13.00	41.89	2.38	155	Vertical
5	8405.5906	-57.56	-49.35	-13.00	36.35	8.21	351	Vertical
6	10889.789	-58.18	-44.72	-13.00	31.72	13.46	2	Vertical

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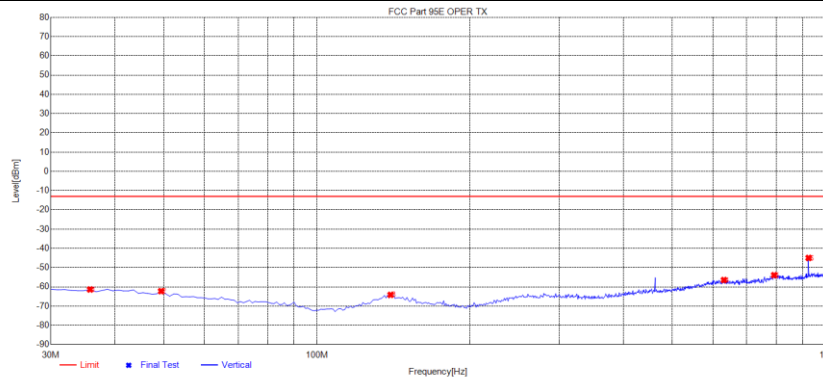
Radiated Emissions 30MHz to 1GHz

Test Mode:	TX-CH19-12.5kHz-15W	Polarity:	Horizontal
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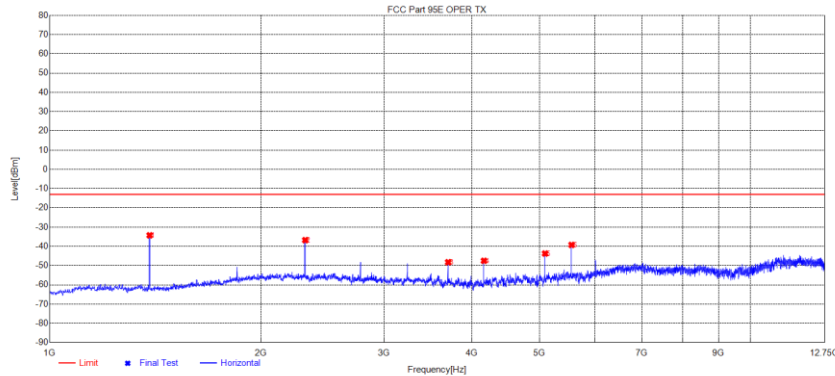
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30	-89.67	-60.22	-13.00	47.22	29.45	266	Horizontal
2	37.76	-90.80	-61.17	-13.00	48.17	29.63	54	Horizontal
3	139.61	-90.44	-63.47	-13.00	50.47	26.97	210	Horizontal
4	670.2	-89.11	-54.94	-13.00	41.94	34.17	360	Horizontal
5	806	-90.55	-53.43	-13.00	40.43	37.12	335	Horizontal
6	926.28	-80.87	-43.33	-13.00	30.33	37.54	119	Horizontal

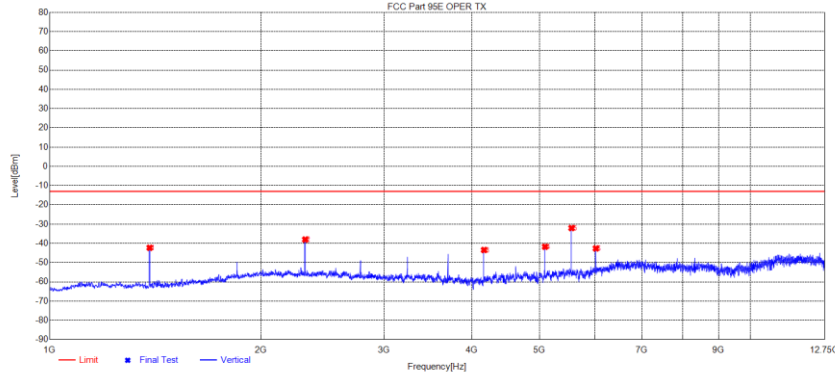
Test Mode:	TX-CH19-12.5kHz-15W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	35.82	-90.94	-61.35	-13.00	48.35	29.59	317	Vertical
2	49.4	-90.03	-62.24	-13.00	49.24	27.79	0	Vertical
3	139.61	-91.10	-64.13	-13.00	51.13	26.97	0	Vertical
4	631.4	-90.81	-56.46	-13.00	43.46	34.35	333	Vertical
5	792.42	-90.68	-53.92	-13.00	40.92	36.76	293	Vertical
6	926.28	-82.51	-44.97	-13.00	31.97	37.54	40	Vertical

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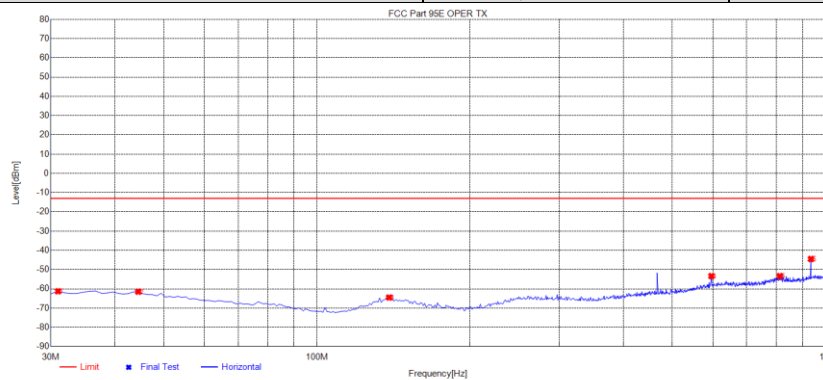
Radiated Emissions Above 1GHz								
Test Mode:	TX-CH19-12.5kHz-15W				Polarity:		Horizontal	
 Graph showing Level [dBm] vs Frequency [Hz] for Horizontal Polarity. The graph displays a blue line for the Final Test, a red line for the Limit, and a blue line for the Horizontal reference. The frequency range is from 1G to 12.75G Hz, and the level range is from -90 to 80 dBm. Several peaks are visible, with the highest peak at 1387.7888 MHz.								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1387.7888	-30.15	-34.26	-13.00	21.26	-4.11	19	Horizontal
2	2313.7814	-39.10	-36.77	-13.00	23.77	2.33	116	Horizontal
3	3701.5952	-50.62	-48.24	-13.00	35.24	2.38	184	Horizontal
4	4163.4163	-50.61	-47.48	-13.00	34.48	3.13	283	Horizontal
5	5089.4089	-48.85	-43.73	-13.00	30.73	5.12	264	Horizontal
6	5552.4052	-45.12	-39.24	-13.00	26.24	5.88	184	Horizontal

Test Mode:	TX-CH19-12.5kHz-15W				Polarity:		Vertical	
 Graph showing Level [dBm] vs Frequency [Hz] for Vertical Polarity. The graph displays a blue line for the Final Test, a red line for the Limit, and a blue line for the Vertical reference. The frequency range is from 1G to 12.75G Hz, and the level range is from -90 to 80 dBm. Several peaks are visible, with the highest peak at 1387.7888 MHz.								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1387.7888	-38.18	-42.29	-13.00	29.29	-4.11	174	Vertical
2	2313.7814	-40.33	-38.00	-13.00	25.00	2.33	263	Vertical
3	4164.5915	-46.59	-43.45	-13.00	30.45	3.14	194	Vertical
4	5089.4089	-46.87	-41.75	-13.00	28.75	5.12	272	Vertical
5	5552.4052	-37.92	-32.04	-13.00	19.04	5.88	293	Vertical
6	6014.2264	-49.35	-42.63	-13.00	29.63	6.72	2	Vertical

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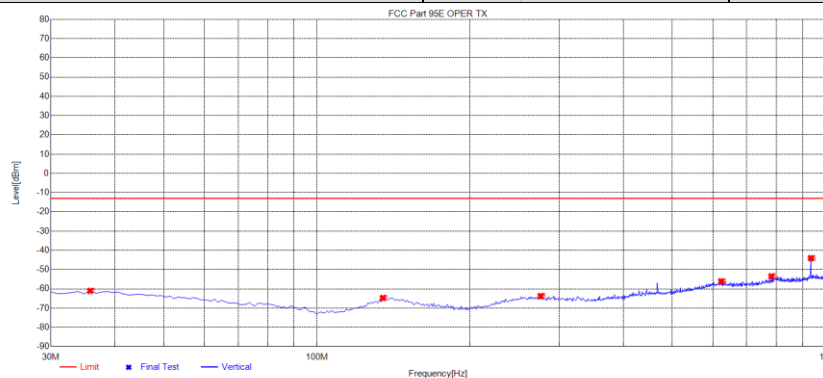
Radiated Emissions 30MHz to 1GHz

Test Mode:	TX-CH27-25kHz-15W	Polarity:	Horizontal
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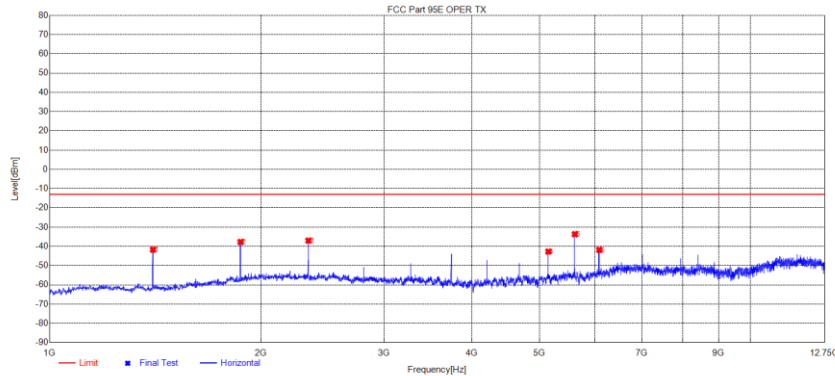
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30.97	-90.80	-61.24	-13.00	48.24	29.56	331	Horizontal
2	44.55	-90.25	-61.45	-13.00	48.45	28.80	10	Horizontal
3	138.64	-91.27	-64.50	-13.00	51.50	26.77	233	Horizontal
4	596.48	-87.12	-53.34	-13.00	40.34	33.78	145	Horizontal
5	812.79	-90.40	-53.38	-13.00	40.38	37.02	258	Horizontal
6	935.98	-82.27	-44.46	-13.00	31.46	37.81	120	Horizontal

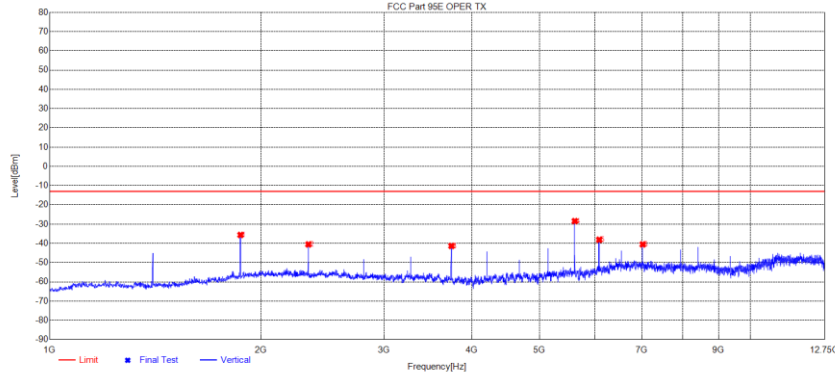
Test Mode:	TX-CH27-25kHz-15W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	35.82	-90.62	-61.03	-13.00	48.03	29.59	229	Vertical
2	134.76	-90.71	-64.74	-13.00	51.74	25.97	55	Vertical
3	275.41	-91.03	-63.75	-13.00	50.75	27.28	286	Vertical
4	623.64	-90.31	-56.07	-13.00	43.07	34.24	245	Vertical
5	782.72	-89.79	-53.49	-13.00	40.49	36.30	83	Vertical
6	935.98	-81.85	-44.04	-13.00	31.04	37.81	14	Vertical

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Radiated Emissions Above 1GHz								
Test Mode:	TX-CH27-25kHz-15W			Polarity:		Horizontal		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1403.0653	-37.60	-41.71	-13.00	28.71	-4.11	217	Horizontal
2	1870.7621	-38.15	-37.71	-13.00	24.71	0.44	306	Horizontal
3	2338.4588	-39.37	-37.01	-13.00	24.01	2.36	344	Horizontal
4	5144.6395	-47.93	-42.71	-13.00	29.71	5.22	256	Horizontal
5	5612.3362	-39.68	-33.69	-13.00	20.69	5.99	107	Horizontal
6	6081.2081	-48.68	-41.83	-13.00	28.83	6.85	28	Horizontal

Test Mode:	TX-CH27-25kHz-15W			Polarity:		Vertical		
								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	1870.7621	-36.06	-35.62	-13.00	22.62	0.44	173	Vertical
2	2338.4588	-42.90	-40.54	-13.00	27.54	2.36	8	Vertical
3	3741.5492	-43.73	-41.34	-13.00	28.34	2.39	173	Vertical
4	5612.3362	-34.43	-28.44	-13.00	15.44	5.99	8	Vertical
5	6081.2081	-44.96	-38.11	-13.00	25.11	6.85	8	Vertical
6	7015.4265	-48.83	-40.54	-13.00	27.54	8.29	359	Vertical

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11. Spurious Emission on Antenna Port

11.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057, 22.359 & 90.210 for specification details.
Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 95.1779	At least $43 + 10 \log (P)$ dB

$$43 + 10 \log (P_{\text{watts}})$$

Calculation: Limit (dBm) = EL - 43 - 10 log₁₀ (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,

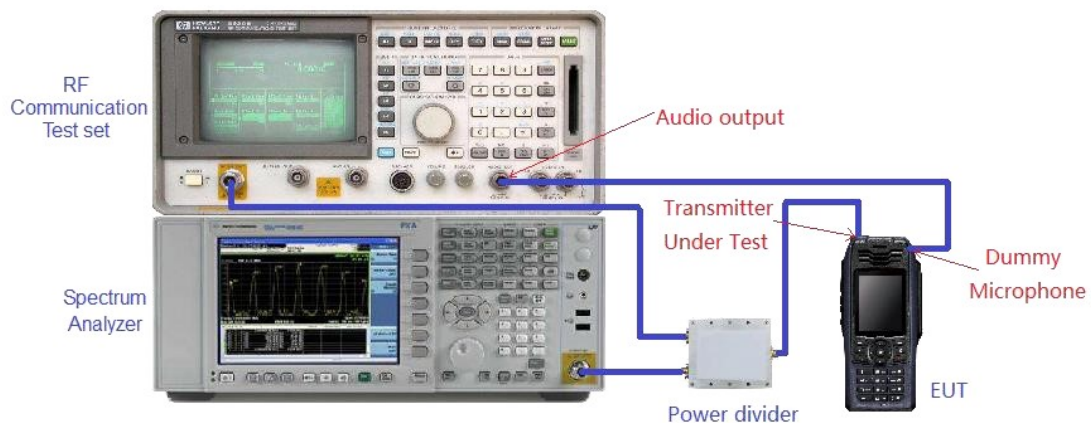
In this application, the EL is P (dBm).

$$\text{Limit (dBm)} = P (\text{dBm}) - 43 - 10 \log (P_{\text{watts}}) = -13 \text{ dBm}$$

11.2 Measurement Procedure

1. The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set to 100 kHz. Sufficient scans were taken to
3. Show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
4. Set RBW 100 kHz, VBW 300 kHz in the frequency band 30MHz to 1GHz, while set
5. RBW=1MHz. VBW=3MHz from the 1GHz to 10th Harmonic.
6. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

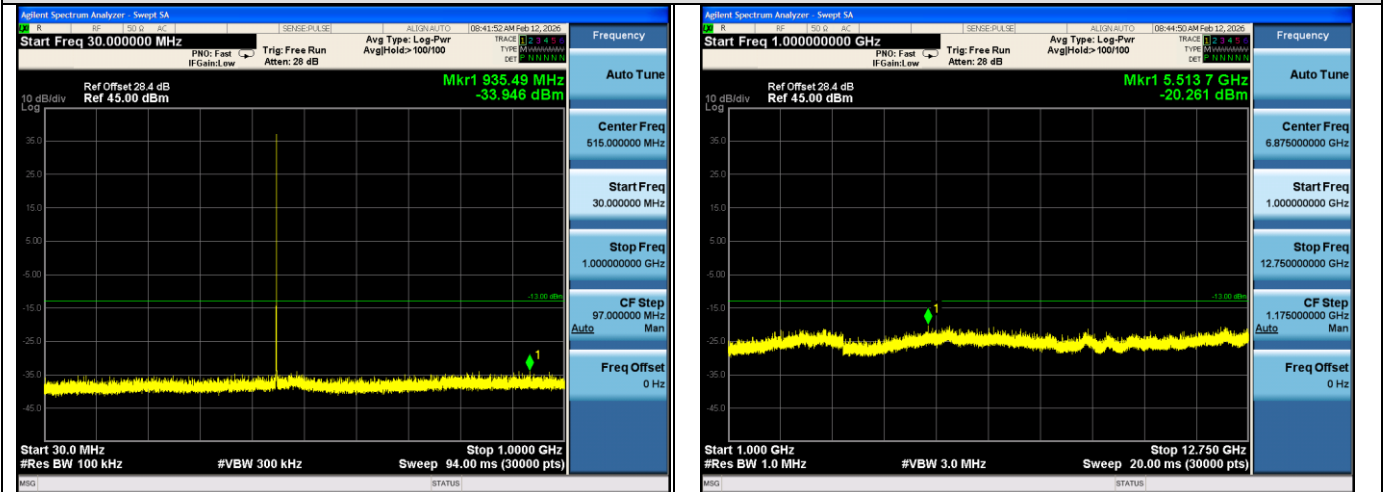
11.3 Measurement Setup



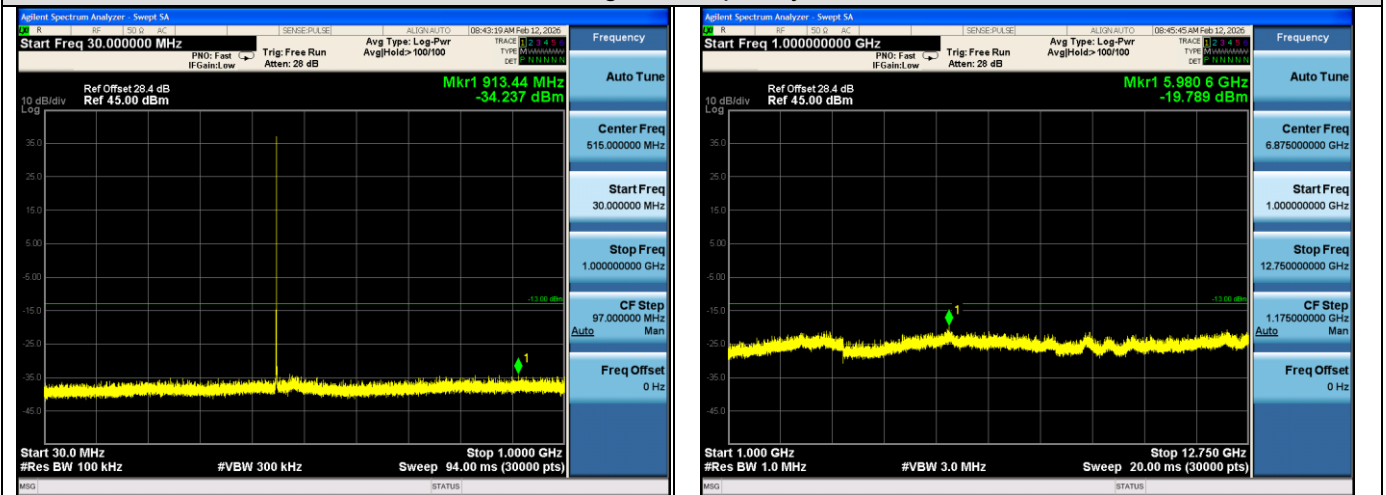
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11.4 Measurement Result

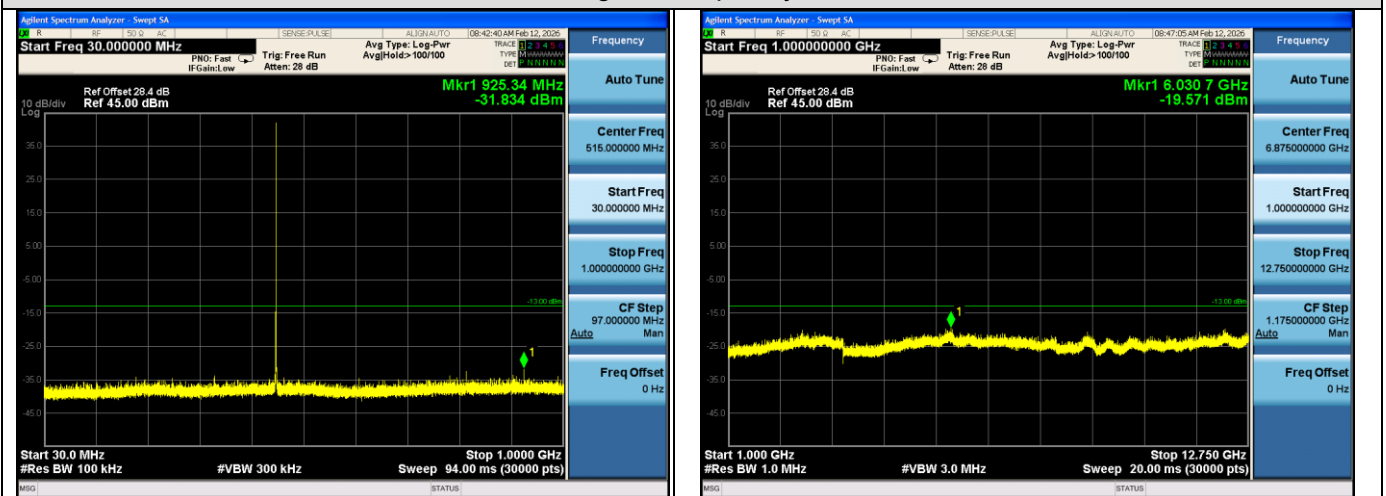
12.5kHz, FM modulation, Assigned Frequency:462.6375MHz, 12.5kHz, 5W



12.5kHz, FM modulation, Assigned Frequency:462.6500MHz, 12.5kHz, 5W

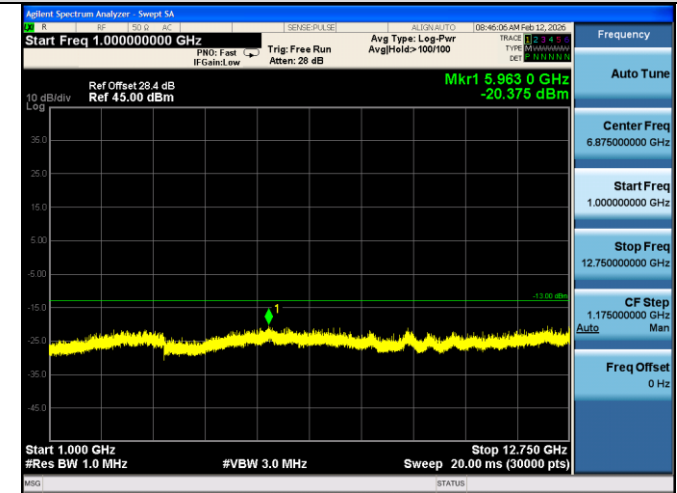
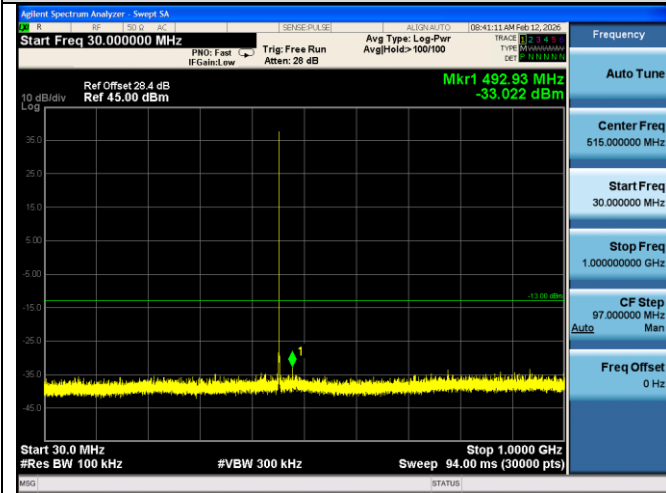


12.5kHz, FM modulation, Assigned Frequency:462.6500MHz, 12.5kHz, 15W

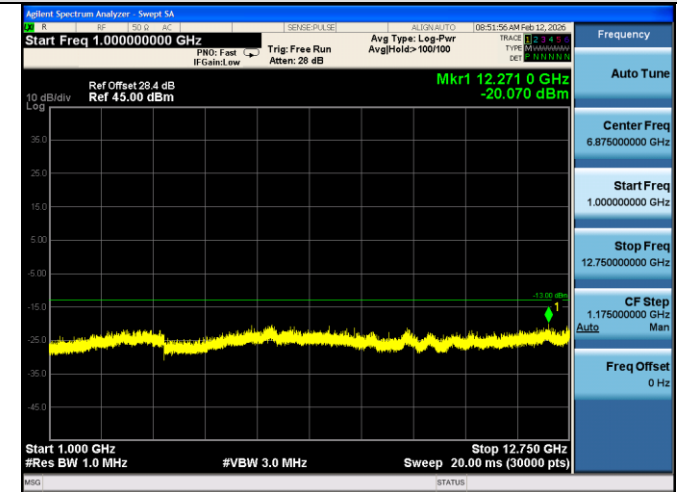
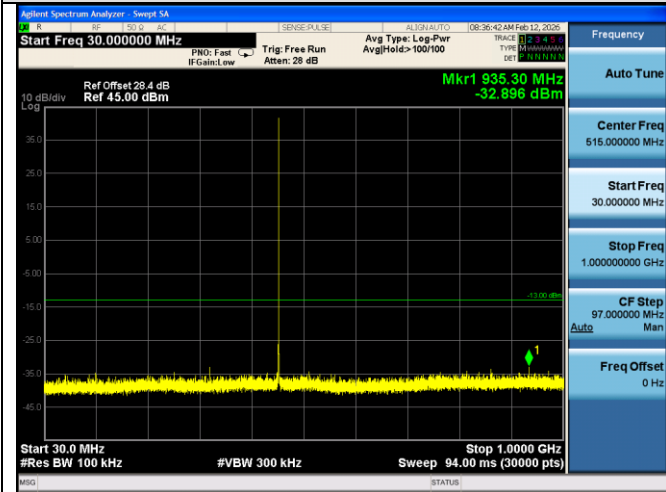


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

12.5kHz, FM modulation, Assigned Frequency:467.6500MHz, 25kHz, 5W



12.5kHz, FM modulation, Assigned Frequency:467.6500MHz, 25kHz, 15W



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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC16129260201AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC16129260201AP02

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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