
FCC Test Report

Report No.: AGC01284220902FE10A

FCC ID : BB075AR01

APPLICATION PURPOSE : ClassII Permissive Change

PRODUCT DESIGNATION : CB Radio

BRAND NAME : COBRA

MODEL NAME : CCBR75AR01

APPLICANT : Cobra Electronics Corporation

DATE OF ISSUE : Nov. 12, 2025

STANDARD(S) : FCC Part 95 Subpart D

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 12, 2025	Valid	Initial Release

Note: The original test report AGC01284220902FE10 (dated Nov. 18, 2022 and tested from Sep.01, 2022~Nov. 18, 2022) was modified on Nov. 12, 2025, including the following changes and additions:

-Update applicant address, manufacturer address and factory address.

U103 change from QA8558 to QA8558P.

Based on the above changes, updated Radiated Spurious Emission, Maximum Transmitter Power and Spurious Emission on Antenna Port.

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1. General Information

Applicant	Cobra Electronics Corporation
Address	1701 Golf Road Suite 3-900 Rolling Meadows Illinois 60008 United States
Manufacturer	Cobra Electronics Corporation
Address	1701 Golf Road Suite 3-900 Rolling Meadows Illinois 60008 United States
Factory	Cobra Electronics Corporation
Address	1701 Golf Road Suite 3-900 Rolling Meadows Illinois 60008 United States
Product Designation	CB Radio
Brand Name	COBRA
Test Model	CCBR75AR01
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Oct.21, 2025
Date of Test	Oct.21, 2025~Nov. 07, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-CBRS-V1

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

Prepared By



Bibo Zhang
(Project Engineer)

Nov. 12, 2025

Reviewed By



Jack Gui
(Reviewer)

Nov. 12, 2025

Approved By



Angela Li
(Authorized Officer)

Nov. 12, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	Citizens' Band (CB) Radio	
Communication Type	Voice / Tone only	
Operation Frequency Range	26.965MHz-27.405MHz	
Hardware Version	V1.0	
Software Version	V1.0	
Modulation Type	AM/FM	
Channel Separation	10kHz	
Number of Channels:	40 Channels	
Rated Output Power	4W (It was fixed by the manufacturer, any individual can't arbitrarily change it)	
Maximum Transmitter Power	AM:35.54dBm	FM: 35.79dBm
Antenna Designation	Detachable	
Antenna Type	External antenna	
Antenna Gain	0dBi (Typical), 5dBi (Max)	
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

Operation Frequency Each of Channel			
CBRS		CBRS	
Channel	Frequency	Channel	Frequency
1	26.965 MHz	21	27.215 MHz
2	26.975 MHz	22	27.225 MHz
3	26.985 MHz	23	27.255 MHz
4	27.005 MHz	24	27.235 MHz
5	27.015 MHz	25	27.245 MHz
6	27.025 MHz	26	27.265 MHz
7	27.035 MHz	27	27.275 MHz
8	27.055 MHz	28	27.285 MHz
9	27.065 MHz	29	27.295 MHz
10	27.075 MHz	30	27.305 MHz
11	27.085 MHz	31	27.315 MHz
12	27.105 MHz	32	27.325 MHz
13	27.115 MHz	33	27.335 MHz
14	27.125 MHz	34	27.345 MHz
15	27.135 MHz	35	27.355 MHz
16	27.155 MHz	36	27.365 MHz
17	27.165 MHz	37	27.375 MHz
18	27.175 MHz	38	27.385 MHz
19	27.185 MHz	39	27.395 MHz
20	27.205 MHz	40	27.405 MHz

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **BB075AR01**, 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 EIA/TIA 382-A-1989	Minimum standards – Citizens band radio service amplitude modulated (AM) transceivers operating in the 27MHz band.

2.5 Calculation of Emission Indicators

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

For AM Mode (Channel Spacing: 10kHz)

Emission Designator 8K00A3E

Bn = 2M, M may vary between 4000 and 10000 depending on the quality desired.

Speech and music, M = 4000, Bandwidth: 8000 Hz= 8 kHz

A3E portion of the designator represents an AM voice transmission.

Therefore, the entire designator for 10 kHz channel spacing AM mode is 8K00A3E.

For FM Mode (Channel Spacing: 10kHz)

Emission Designator 8K00F3E

Bn = 2M, M may vary between 4000 and 10000 depending on the quality desired.

Speech and music, M = 4000, Bandwidth: 8000 Hz= 8 kHz

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 10 kHz channel spacing FM mode is 8K00F3E.

2.6 Statement-Compliance To §95.977

§95.977 CBRS tone transmissions.

In addition to the tones permitted under §95.377, CBRS transmitter types may be designed to transmit brief tones to indicate the beginning or end of a transmission.

This device is capable of transmitting a brief (less than one second) audio tone, “Roger Beep”, when the PTT button is released on the microphone indicating end of transmission. This function is user selectable and complies with the requirements of §95.377. See User’s Manual .

2.7 Special Accessories

Not available for this EUT intended for grant.

2.8 Equipment Modifications

Not available for this EUT intended for grant.

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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	DC13.8V	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-EM-E001	Digital Connectivity Tester	Aeroflex	3920B	N/A	2025-05-09	2027-05-08
☐	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

● 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-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
☒	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	2027-1-14
☒	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

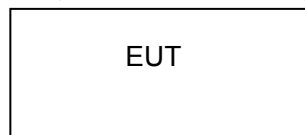


Table 2-1 Equipment Used in Tested System

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

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Hand Microphone	N/A	CCBR75AR01	N/A	0.8m unshielded

4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§ 95.967& 2.1046(a)	Maximum Transmitter Power	Pass
2	§95.979& 2.1051	Spurious Emission on Antenna Port	Pass
3	§95.979& 2.1053	Ratiated Spurious Emission	Pass

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5. Description of Test Modes

The EUT (**CB Radio**) has been tested under normal operating condition. (CBRS TX) are chosen for testing at each channel separation.

No.	Test Mode Description	Channel Separation
1	CBRS AM TX Channel 1	10.0 kHz
2	CBRS AM TX Channel 20	10.0 kHz
3	CBRS AM TX Channel 40	10.0 kHz
4	CBRS FM TX Channel 1	10.0 kHz
5	CBRS FM TX Channel 20	10.0 kHz
6	CBRS FM TX Channel 40	10.0 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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6. Radiated Spurious Emission

6.1 Provisions Applicable

According to the standard FCC Part 95.979(a), the requirements of FCC Part 2.1053 are as follows:

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

- 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	Attenuation Requirements
A3E,F3E	(1), (3), (5), (6)
H3E, J3E, R3E	(2), (4), (5), (6)

- 1) 25 dB (decibels) in the frequency band 4 kHz to 8 kHz removed from the channel center frequency;
- 2) 25 dB in the frequency band 2 kHz to 6 kHz removed from the channel center frequency;
- 3) 35 dB in the frequency band 8 kHz to 20 kHz removed from the channel center frequency;
- 4) 35 dB in the frequency band 6 kHz to 10 kHz removed from the channel center frequency;
- 5) $53 + 10 \log (P)$ dB in any frequency band removed from the channel center frequency by more than 250% of the authorized bandwidth.
- 6) 60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.

6.2 Measurement Procedure

- 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

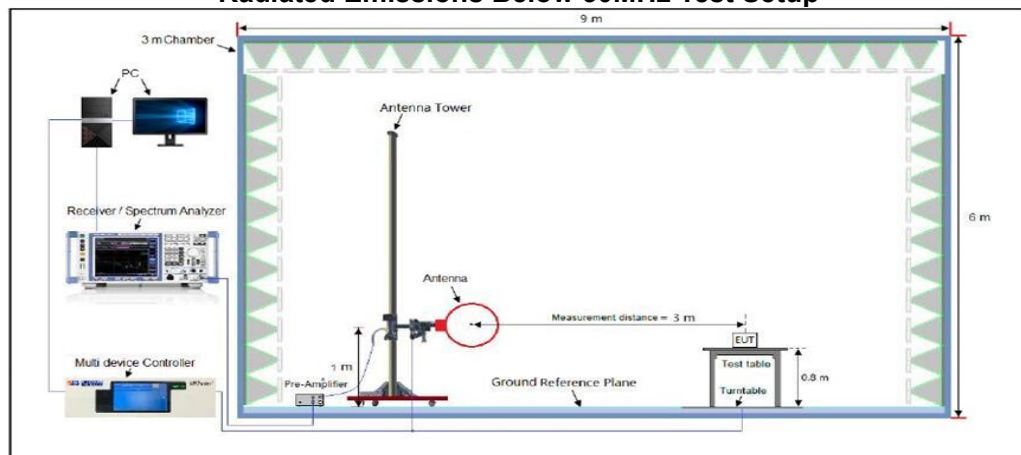
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frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

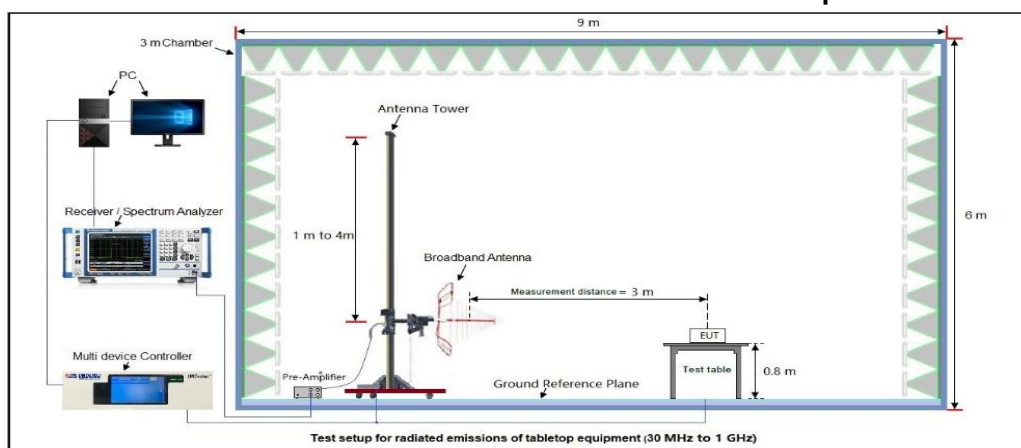
- 5) A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}) ,the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test
- 6) The measurement results are obtained as described below: $Power(EIRP) = P_{Mea} - P_{Ag} - P_{cl} - G_a$ The measurement results are amend as described below: $Power(EIRP) = P_{Mea} - P_{cl} - G_a$
- 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, $ERP = EIRP - 2.15dBi$.
- 9) Test the EUT in the lowest channel, the middle channel the Highest channel

6.3 Measurement Setup

Radiated Emissions Below 30MHz Test Setup



Radiated Emissions 30MHz-1000MHz Test Setup



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

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6.4 Measurement Result

- The Unwanted spurious emissions limits are as follows:

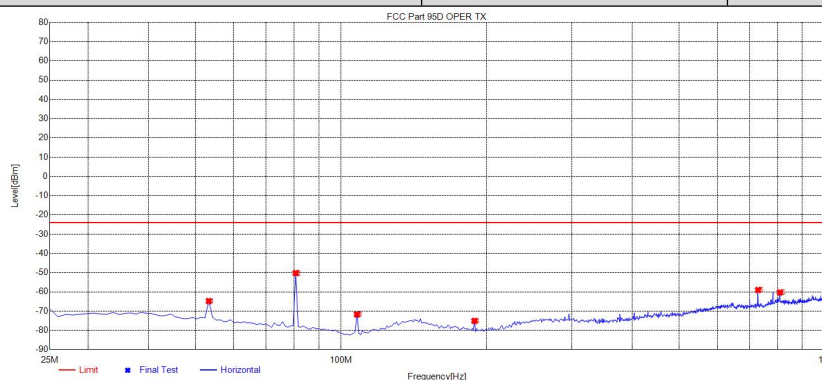
Attenuation Requirement Results	Reference limit
$P(\text{dBm}) = 30 + 10 \log [P(\text{W})] = 36.02 \text{ dBm}$	Limit= Preliminary calculation-60dB=-24dBm

1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss -Pre-amplifier. (Above 1 GHz)
3. Margin=Limit- Level
4. the unwanted emission should be attenuated below TP by at least 60 dB.
5. In the frequency range of 9KHz-30MHz, in addition to displaying the Fundamental level, the radiated spurious emission level is much less than 60dB of the carrier power, so it is ignored.

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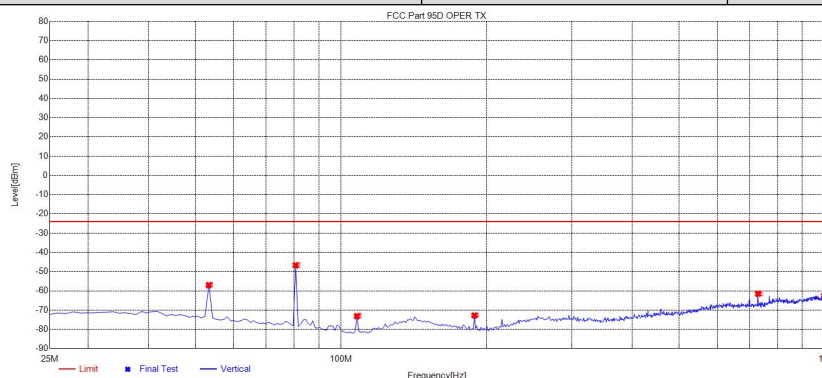
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Test Mode:	TX-CH1-AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-91.97	-64.78	-24.00	40.78	27.19	95	Horizontal
2	80.575	-74.12	-50.23	-24.00	26.23	23.89	333	Horizontal
3	107.875	-91.63	-71.71	-24.00	47.71	19.92	315	Horizontal
4	188.8	-97.09	-75.06	-24.00	51.06	22.03	324	Horizontal
5	728.95	-93.69	-59.04	-24.00	35.04	34.65	0	Horizontal
6	808.9	-97.34	-60.27	-24.00	36.27	37.07	359	Horizontal

Test Mode:	TX-CH1-AM	Polarity:	Vertical
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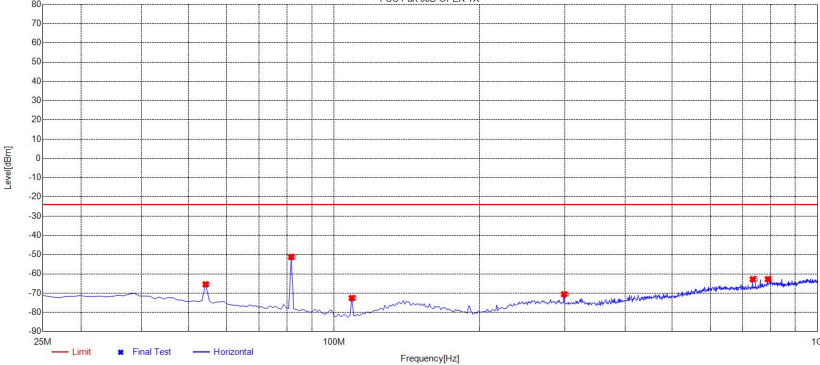


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-84.20	-57.01	-24.00	33.01	27.19	238	Vertical
2	80.575	-70.60	-46.71	-24.00	22.71	23.89	274	Vertical
3	107.875	-93.03	-73.11	-24.00	49.11	19.92	238	Vertical
4	188.8	-94.79	-72.76	-24.00	48.76	22.03	238	Vertical
5	728.95	-96.13	-61.48	-24.00	37.48	34.65	186	Vertical
6	998.05	-100.41	-62.57	-24.00	38.57	37.84	212	Vertical

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Test Mode:	TX-CH20AM	Polarity:	Horizontal
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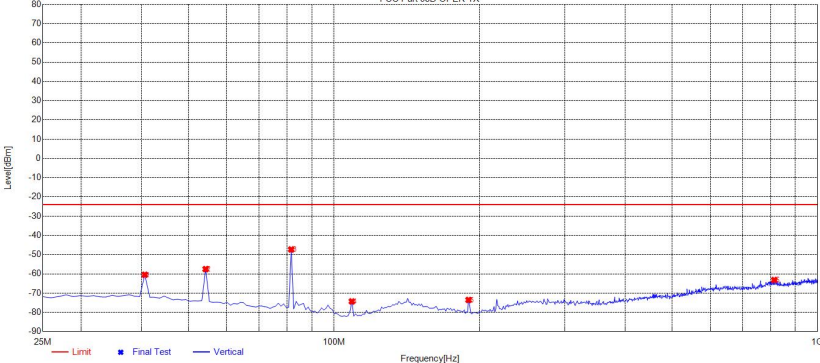
FCC Part 95D OPER TX



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-92.51	-65.46	-24.00	41.46	27.05	262	Horizontal
2	81.55	-74.91	-51.25	-24.00	27.25	23.66	333	Horizontal
3	108.85	-92.49	-72.56	-24.00	48.56	19.93	306	Horizontal
4	298.975	-97.91	-70.63	-24.00	46.63	27.28	184	Horizontal
5	734.8	-97.44	-62.77	-24.00	38.77	34.67	0	Horizontal
6	789.4	-99.34	-62.72	-24.00	38.72	36.62	342	Horizontal

Test Mode:	TX-CH20AM	Polarity:	Vertical
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FCC Part 95D OPER TX



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	40.6	-90.01	-60.45	-24.00	36.45	29.56	53	Vertical
2	54.25	-84.57	-57.52	-24.00	33.52	27.05	238	Vertical
3	81.55	-70.99	-47.33	-24.00	23.33	23.66	282	Vertical
4	108.85	-94.23	-74.30	-24.00	50.30	19.93	308	Vertical
5	189.775	-95.52	-73.55	-24.00	49.55	21.97	246	Vertical
6	813.775	-100.19	-63.19	-24.00	39.19	37.00	106	Vertical

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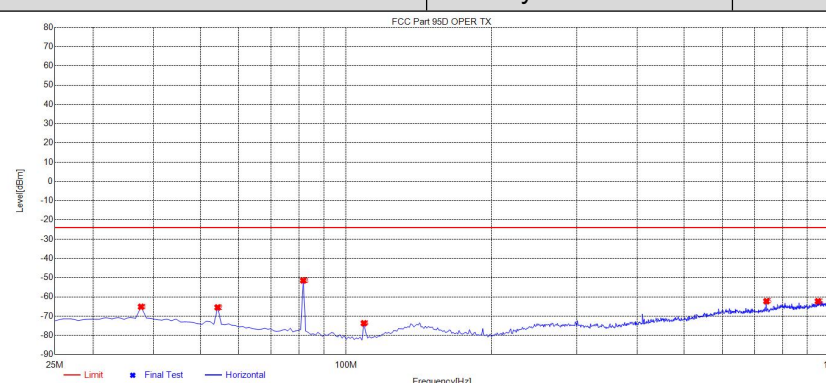
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Test Mode:	TX-CH40AM	Polarity:	Horizontal
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FCC Part 95D OPER TX



Level [dBm]

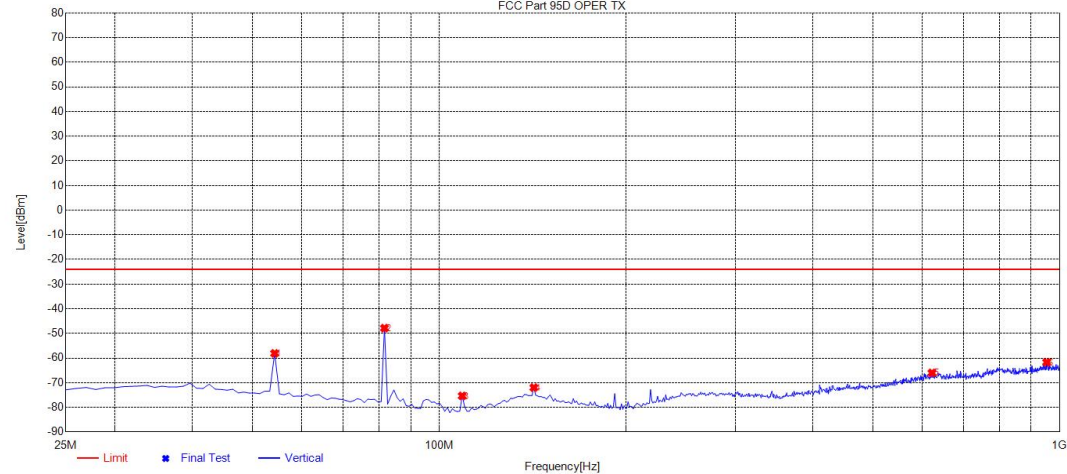
Frequency [Hz]

— Limit ■ Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	37.675	-94.79	-65.15	-24.00	41.15	29.64	1	Horizontal
2	54.25	-92.53	-65.48	-24.00	41.48	27.05	105	Horizontal
3	81.55	-75.14	-51.48	-24.00	27.48	23.66	333	Horizontal
4	108.85	-93.64	-73.71	-24.00	49.71	19.93	324	Horizontal
5	740.65	-96.96	-62.27	-24.00	38.27	34.69	359	Horizontal
6	946.375	-100.36	-62.28	-24.00	38.28	38.08	1	Horizontal

Test Mode:	TX-CH40AM	Polarity:	Vertical
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FCC Part 95D OPER TX



Level [dBm]

Frequency [Hz]

— Limit ■ Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-85.13	-58.08	-24.00	34.08	27.05	238	Vertical
2	81.55	-71.50	-47.84	-24.00	23.84	23.66	264	Vertical
3	108.85	-95.25	-75.32	-24.00	51.32	19.93	299	Vertical
4	142	-98.74	-71.97	-24.00	47.97	26.77	124	Vertical
5	622.675	-100.21	-65.99	-24.00	41.99	34.22	106	Vertical
6	953.2	-99.84	-61.68	-24.00	37.68	38.16	115	Vertical

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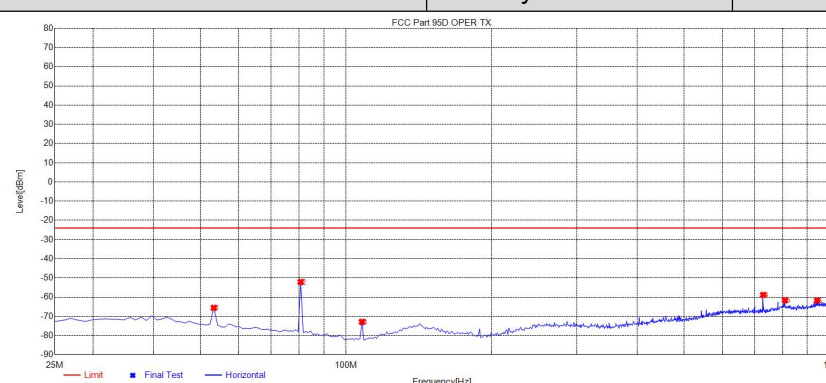
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Test Mode:	TX-CH1-FM	Polarity:	Horizontal
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FCC Part 95D OPER TX



Level [dBm]

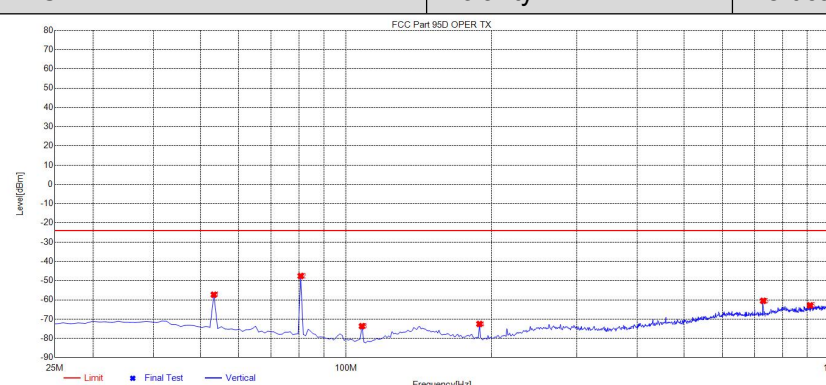
Frequency [Hz]

— Limit — Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-92.71	-65.52	-24.00	41.52	27.19	103	Horizontal
2	80.575	-75.96	-52.07	-24.00	28.07	23.89	0	Horizontal
3	107.875	-92.75	-72.83	-24.00	48.83	19.92	297	Horizontal
4	728.95	-93.48	-58.83	-24.00	34.83	34.65	0	Horizontal
5	808.9	-98.69	-61.62	-24.00	37.62	37.07	0	Horizontal
6	942.475	-99.67	-61.71	-24.00	37.71	37.96	172	Horizontal

Test Mode:	TX-CH1-AM	Polarity:	Vertical
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FCC Part 95D OPER TX



Level [dBm]

Frequency [Hz]

— Limit — Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-84.50	-57.31	-24.00	33.31	27.19	222	Vertical
2	80.575	-71.48	-47.59	-24.00	23.59	23.89	284	Vertical
3	107.875	-93.58	-73.66	-24.00	49.66	19.92	213	Vertical
4	188.8	-94.54	-72.51	-24.00	48.51	22.03	293	Vertical
5	728.95	-95.14	-60.49	-24.00	36.49	34.65	187	Vertical
6	911.275	-99.89	-62.88	-24.00	38.88	37.01	125	Vertical

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Test Mode:	TX-CH20AM	Polarity:	Horizontal
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FCC Part 95D OPER TX

Level [dBm]

Frequency [Hz]

— Limit — Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-93.13	-66.08	-24.00	42.08	27.05	333	Horizontal
2	81.55	-74.93	-51.27	-24.00	27.27	23.66	315	Horizontal
3	108.85	-92.50	-72.57	-24.00	48.57	19.93	315	Horizontal
4	298.975	-97.87	-70.59	-24.00	46.59	27.28	342	Horizontal
5	734.8	-98.15	-63.48	-24.00	39.48	34.67	0	Horizontal
6	950.275	-100.59	-62.38	-24.00	38.38	38.21	350	Horizontal

Test Mode:	TX-CH20AM	Polarity:	Vertical
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FCC Part 95D OPER TX

Level [dBm]

Frequency [Hz]

— Limit — Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.13	-59.08	-24.00	35.08	27.05	230	Vertical
2	81.55	-71.68	-48.02	-24.00	24.02	23.66	274	Vertical
3	108.85	-95.08	-75.15	-24.00	51.15	19.93	239	Vertical
4	189.775	-96.15	-74.18	-24.00	50.18	21.97	274	Vertical
5	627.55	-100.11	-65.81	-24.00	41.81	34.30	133	Vertical
6	791.35	-100.20	-63.50	-24.00	39.50	36.70	352	Vertical

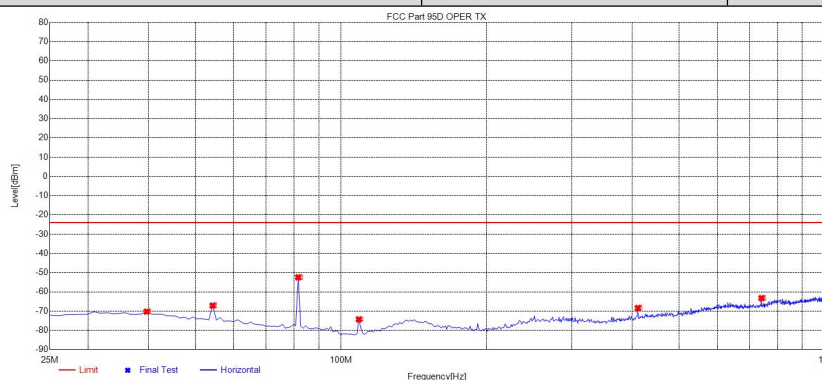
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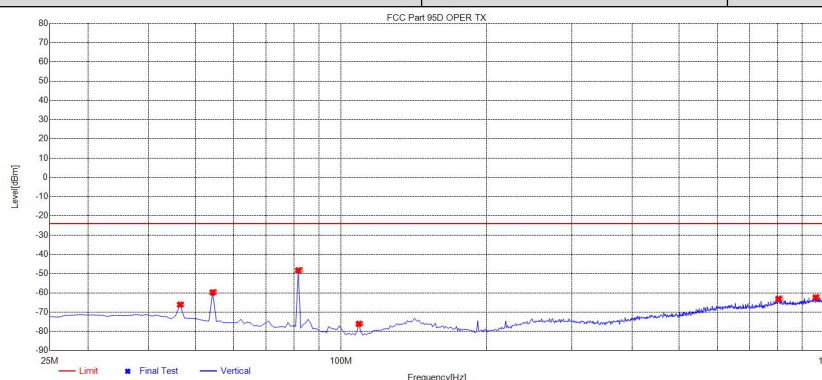
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Test Mode:	TX-CH40AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	39.625	-99.92	-70.26	-24.00	46.26	29.66	227	Horizontal
2	54.25	-94.16	-67.11	-24.00	43.11	27.05	280	Horizontal
3	81.55	-76.08	-52.42	-24.00	28.42	23.66	324	Horizontal
4	108.85	-94.20	-74.27	-24.00	50.27	19.93	333	Horizontal
5	411.1	-97.38	-68.38	-24.00	44.38	29.00	359	Horizontal
6	740.65	-97.92	-63.23	-24.00	39.23	34.69	0	Horizontal

Test Mode:	TX-CH40AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	46.45	-94.50	-66.12	-24.00	42.12	28.38	71	Vertical
2	54.25	-86.82	-59.77	-24.00	35.77	27.05	247	Vertical
3	81.55	-71.99	-48.33	-24.00	24.33	23.66	291	Vertical
4	108.85	-96.03	-76.10	-24.00	52.10	19.93	308	Vertical
5	803.05	-100.28	-63.15	-24.00	39.15	37.13	36	Vertical
6	959.05	-100.43	-62.40	-24.00	38.40	38.03	54	Vertical

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7. Maximum Transmitter Power

7.1 Provisions Applicable

According to FCC§2.1046(a) and §95.967 the following requirements are required:

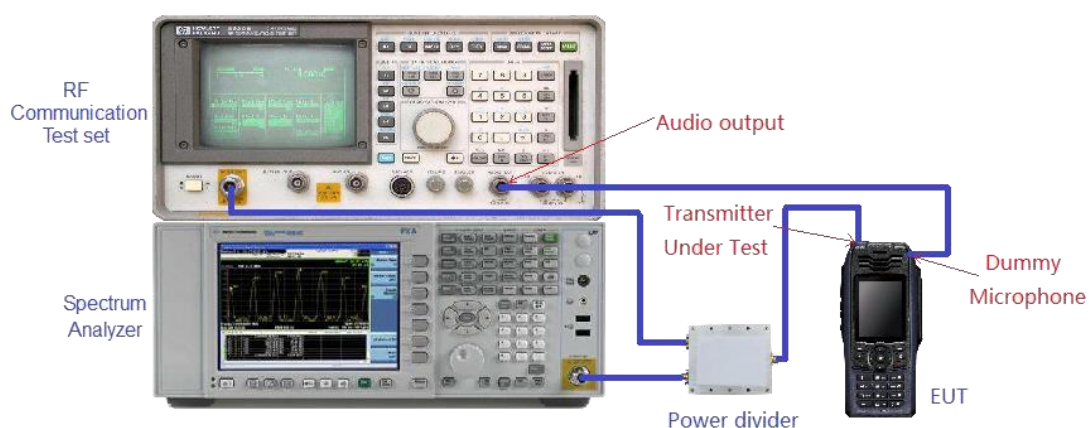
The maximum transmit power limits for each CBRS transmitter type are as follows:

- When transmitting amplitude modulated (AM) voice signals or frequency modulated (FM) voice signals, the mean carrier power must not exceed 4 Watts
- When transmitting single sideband (SSB) voice signals, the peak envelope power must not exceed 12 Watts.

7.2 Measurement Procedure

- Conducted RF Output Power:
 - The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
 - The DUT was connected to a Spectrum Analyzer (SA) via a 30dB attenuator connected to the DUT's antenna port. The
 - SA was configured as above using the Automatic 6dB Cursor Bandwidth measurement. The output power of the DUT was set to the manufacturer's highest output power setting at the Low, Mid and High frequency channels as permitted by the device.
 - The DUT was set to transmit at its maximum Duty Cycle.
 - Spectrum set as follow:
 - Centre frequency = fundamental frequency, Span=150kHz , RBW=30kHz, VBW=30kHz ;
 - Sweep = auto, Detector function = peak, Trace = max hold
 - The final recorded maximum power is reported
- Calculation Formula: $CP = R + A + L$
 - CP: The final Conducted Power
 - R: The reading value from spectrum analyzer
 - A: The attenuation value of the used attenuator
 - L: The loss of all connection cables

7.3 Measurement Setup

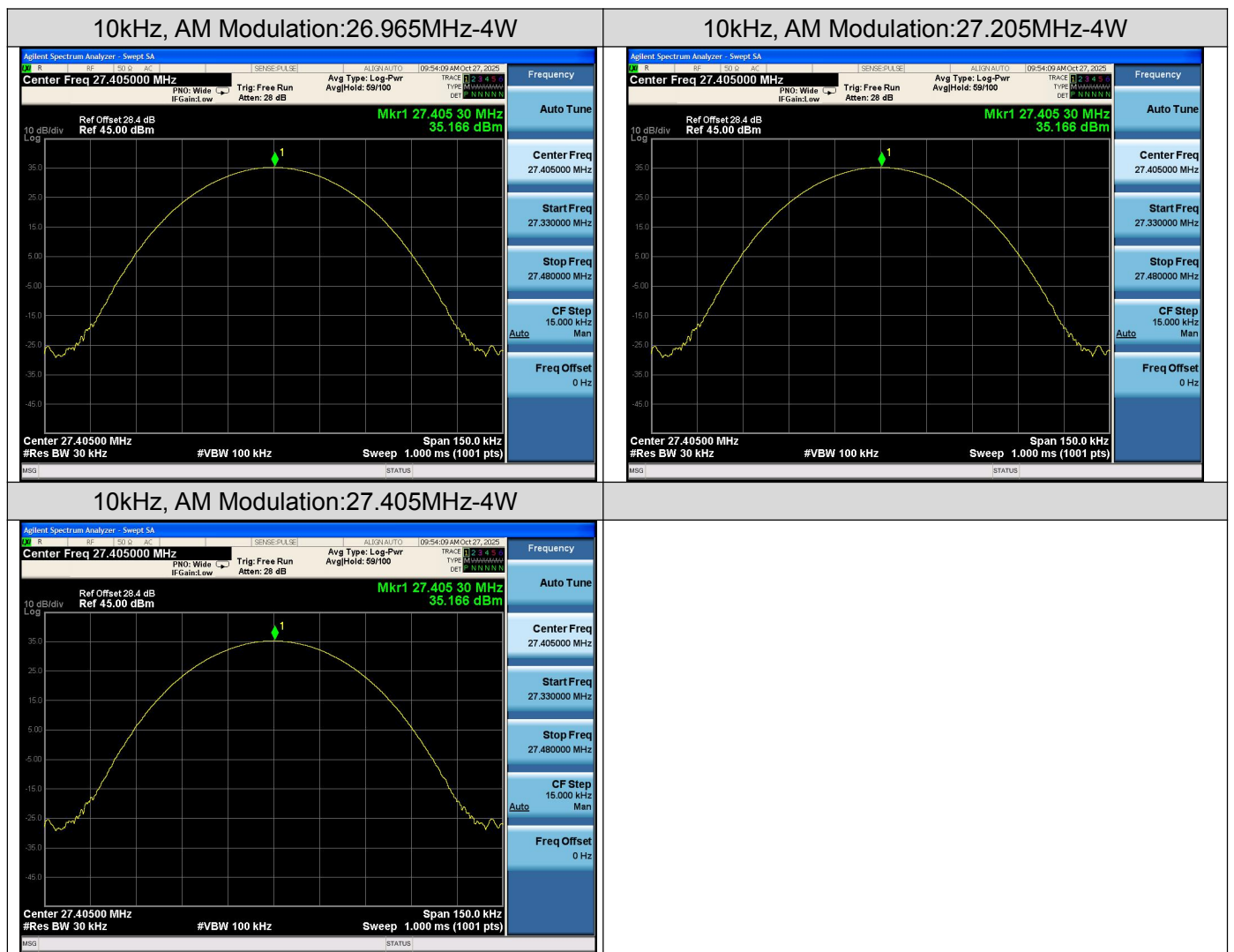


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7.4 Measurement Result

Conducted Power Measurement Results-4W			
Test Mode	Channel Separation	Test Channel	Measurement Result (dBm)
CBRS TX_AM	10 kHz	26.965 MHz	35.53
		27.205 MHz	35.54
		27.405 MHz	35.17

Test plot as follows:

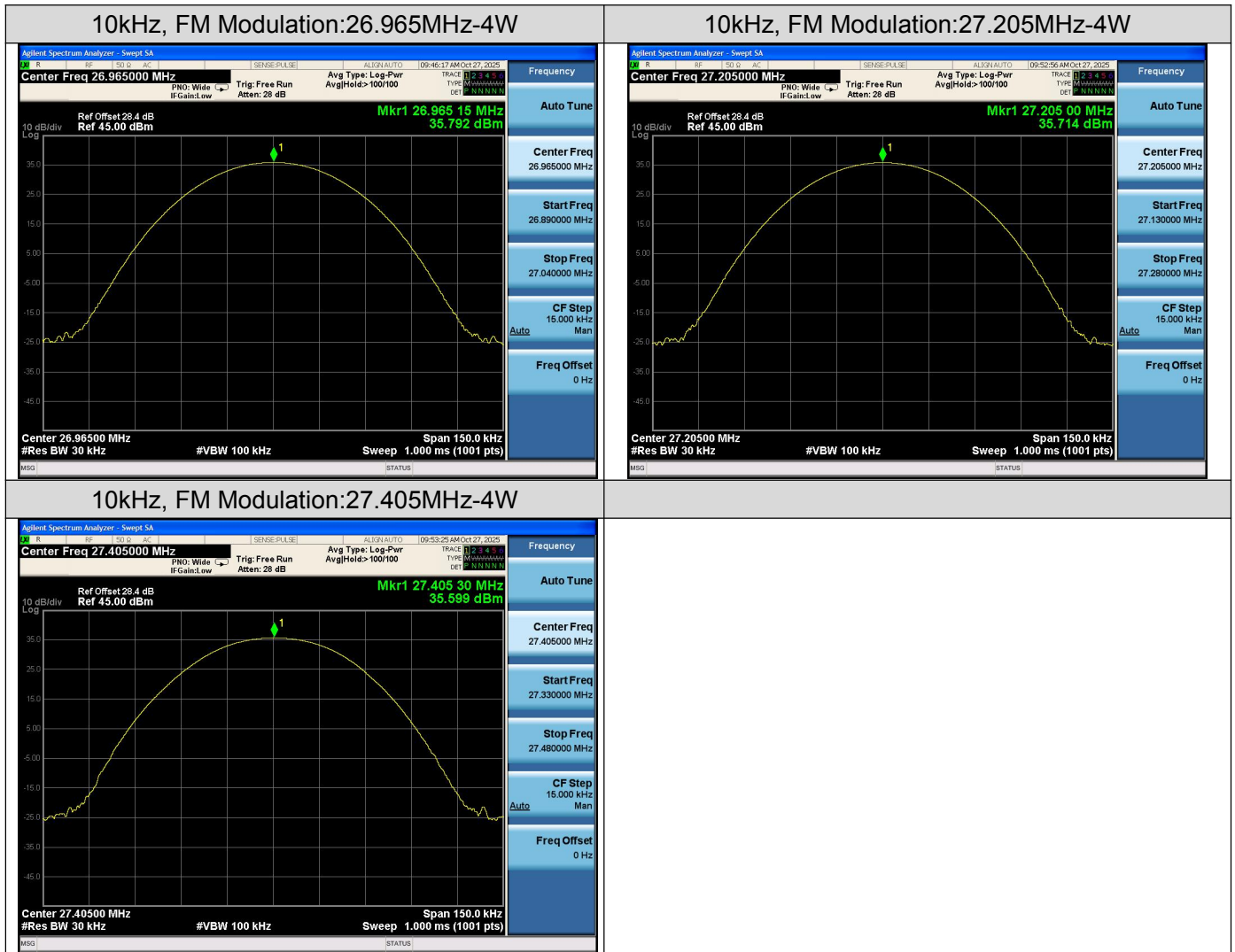


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Conducted Power Measurement Results-4W

Test Mode	Channel Separation	Test Channel	Measurement Result (dBm)
CBRS TX_FM	10 kHz	26.965 MHz	35.79
		27.205 MHz	35.71
		27.405 MHz	35.60

Test plot as follows:



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8. Spurious Emission on Antenna Port

8.1 Provisions Applicable

Please refer to FCC 47 CFR 2.1051, 2.1057 & 95.979 for specification details.

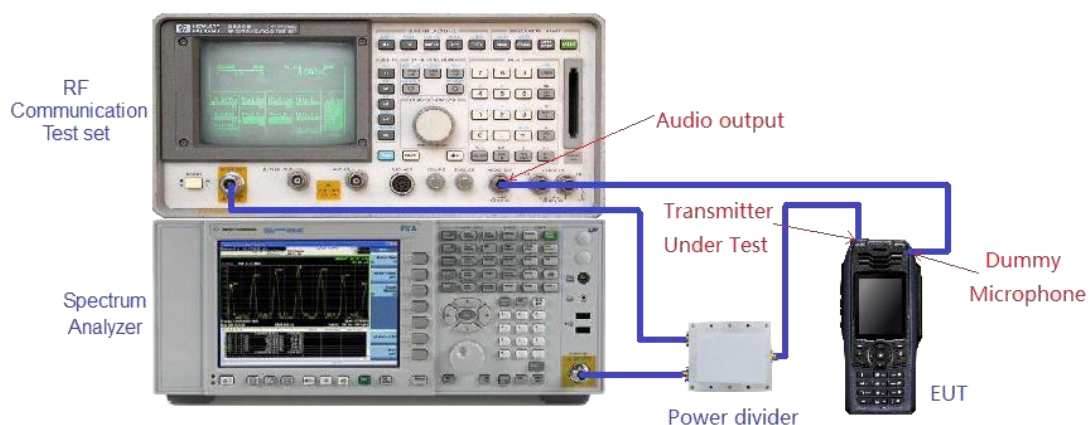
Emissions shall be attenuated below the mean output power of the transmitter as follows:

FCC Rules	Attenuation Limit (dBc)
§ 95.979	At least $53 + 10 \log (P)$ dB
§ 95.979	60 dB in any frequency band centered on a harmonic (i.e., an integer multiple of two or more times) of the carrier frequency.

8.2 Measurement Procedure

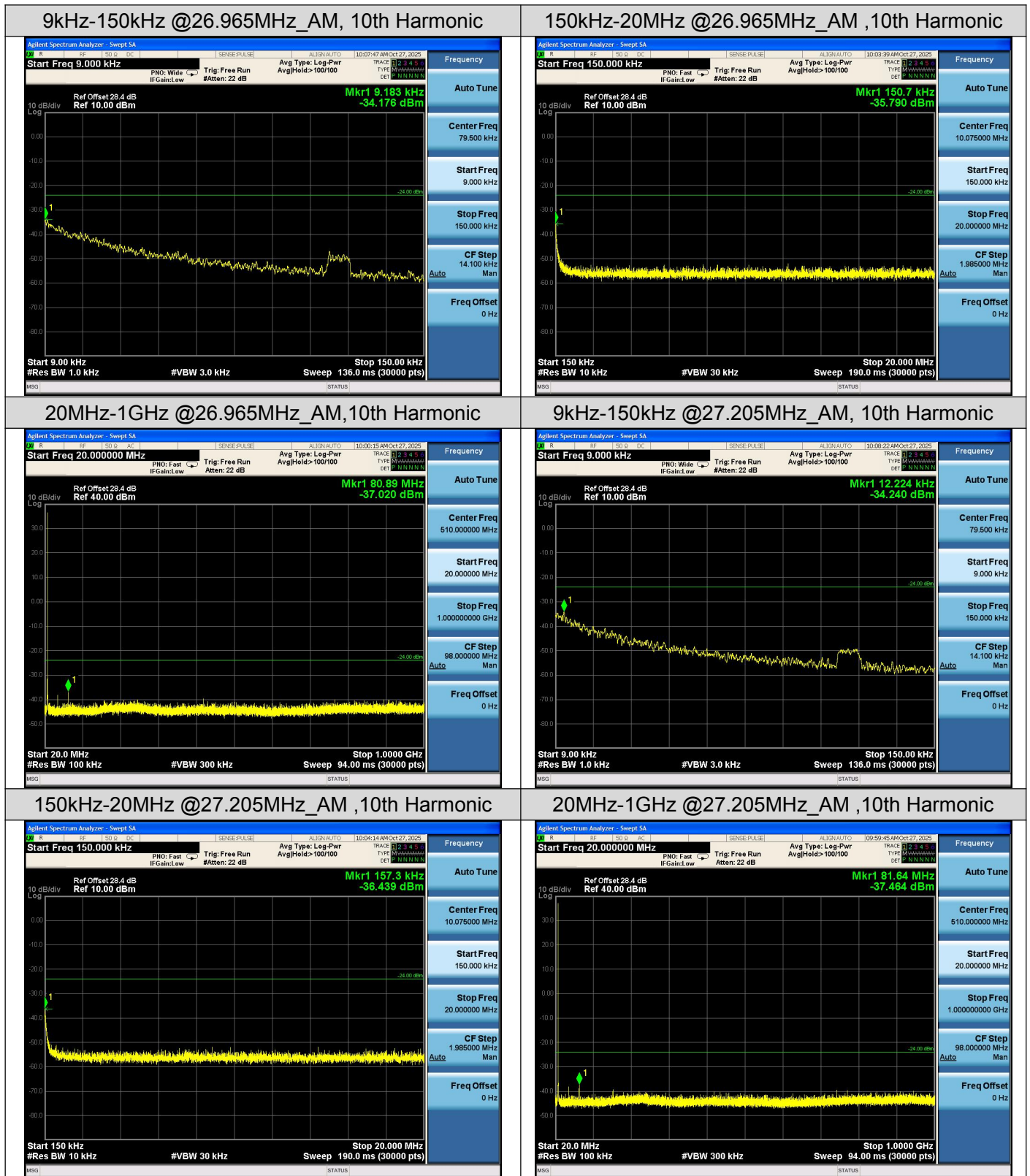
1. The RF output of the EUT is connected to the spectrum analyzer with appropriate attenuation.
 2. The audio input is set to an unmodulated carrier
 3. The resolution bandwidth of the spectrum analyzer is set to 100 kHz. A sufficient sweep is performed to
 4. Display any out-of-band emissions up to the 10th harmonic. Minimum and maximum frequency range.
- Out-of-band unwanted spurious emission requirements:
5. Set RBW 100 kHz, VBW 300 kHz in the frequency band from 30MHz to 1GHz, and set
 6. From 1GHz to the 10th harmonic, RBW=1MHz.VBW=3MHz.
- Harmonic emission spurious requirements:
7. According to the maximum transmit power of the measurement center frequency, attenuate 60dB downward
 8. The reference level of the maximum transmit power is the conducted maximum transmit power, set the limit
 9. In the frequency band from 30MHz to 1GHz, set RBW 100 kHz, VBW 300 kHz, and set
 10. From 1GHz to the 10th harmonic, RBW=1MHz.VBW=3MHz.
 11. Record whether the corresponding harmonic meets the limit requirements
 12. Finally, record the spectrum or table in the report.

8.3 Measurement Setup

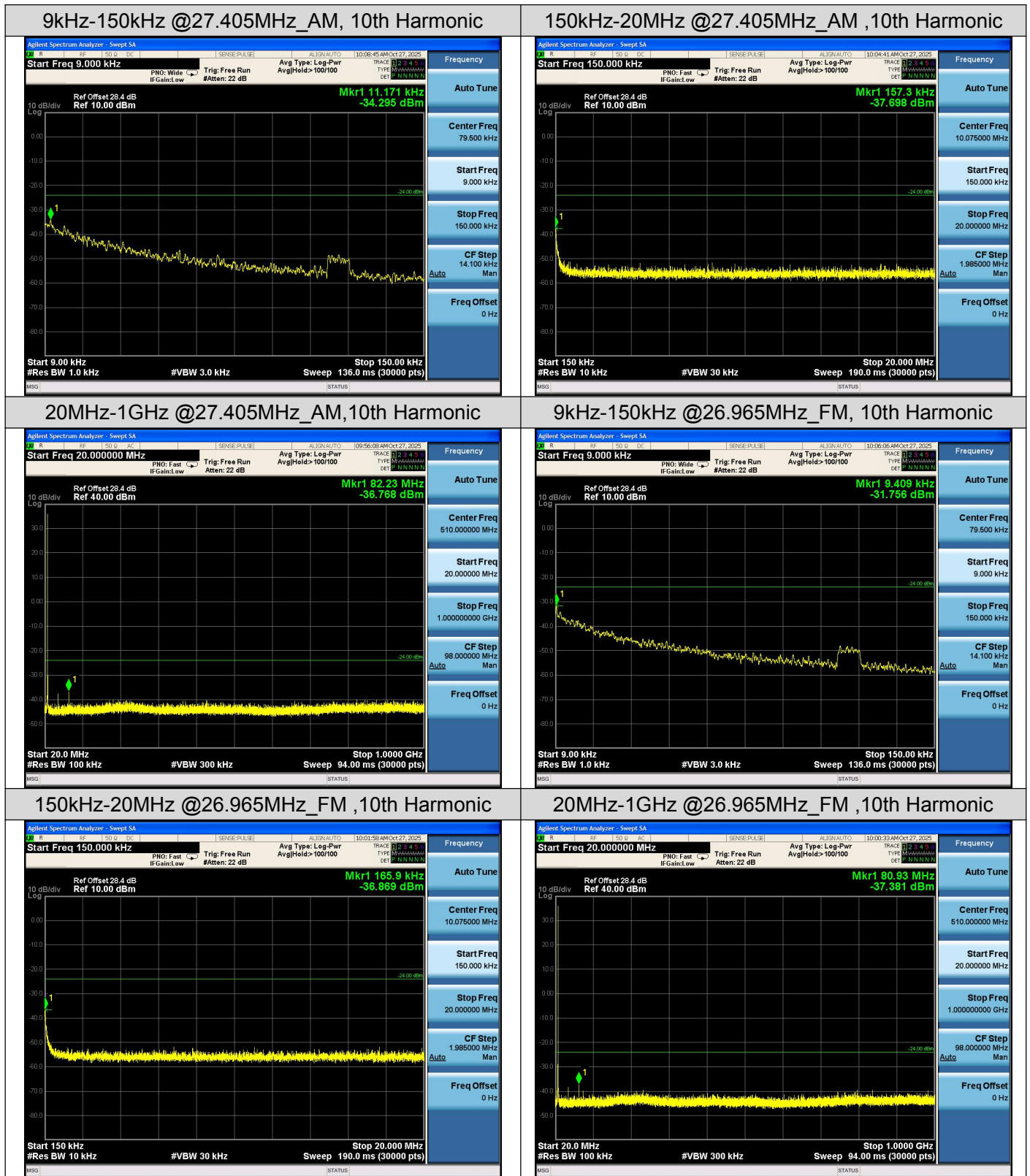


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

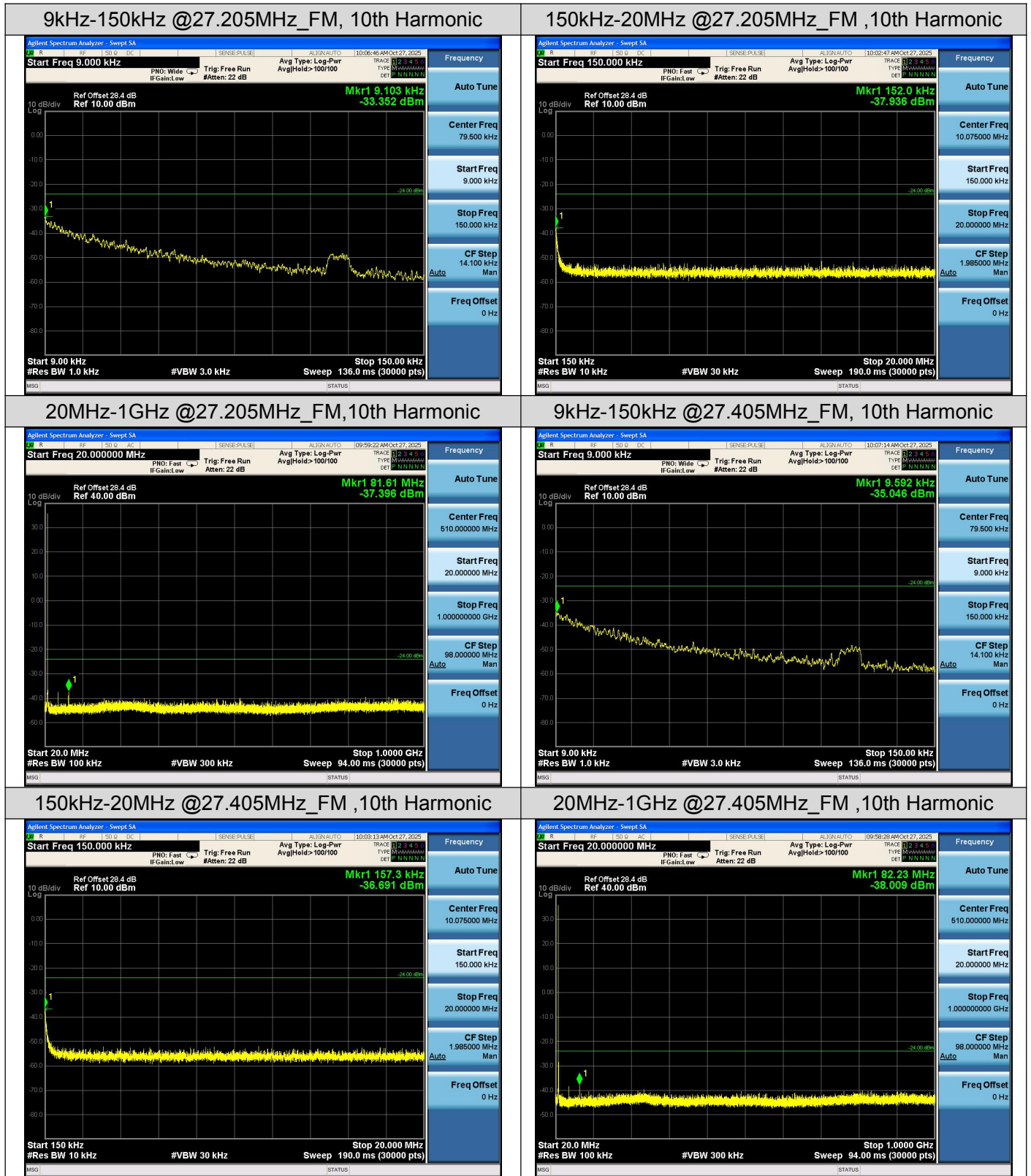
8.4 Measurement Result



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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC01284220902AP01A

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC01284220902AP02A

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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/>

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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