
FCC Test Report

Report No.: AGC02931230401FE10

FCC ID : 2AWYH-H5RB

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : DMR Digital Transceiver

BRAND NAME : Rugged Radios

MODEL NAME : RDH-16V

APPLICANT : Rugged Radios

DATE OF ISSUE : May 25, 2023

STANDARD(S) : FCC Part 90 Rules

REPORT VERSION : V 1.0

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	/	May 25, 2023	Valid	Initial Release

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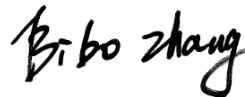
1. GENERAL INFORMATION

Applicant	Rugged Radios
Address	509 Traffic Way, Arroyo Grande, CA 93420, United States
Manufacturer	Rugged Radios
Address	509 Traffic Way, Arroyo Grande, CA 93420, United States
Factory	Rugged Radios
Address	509 Traffic Way, Arroyo Grande, CA 93420, United States
Product Designation	DMR Digital Transceiver
Brand Name	Rugged Radios
Test Model	RDH-16V
Deviation from Standard	None
Date of receipt of test item	Apr. 21, 2023
Date of Test:	Apr. 21, 2023~May 25, 2023
Test Result	Pass

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Bibo Zhang
(Project Engineer)

May 25, 2023

Reviewed By



Calvin Liu
(Reviewer)

May 25, 2023

Approved By



Max Zhang
Authorized Officer

May 25, 2023

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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	V1A	
Software Version	V1.29	
Power Supply	DC 7.4V,2000mAh by battery, charging for DC8.4V	
Communication Type	Voice / Data	
Operation Frequency Range	From 136MHz to 174MHz	
Modulation Type	Analog Voice:	FM
	Digital (Voice+Data):	4FSK
Digital Type	DMR	
Channel Separation	Analog Voice:	12.5 kHz
	Digital (Voice+Data):	12.5 kHz
Support Data Rate	9600bps	
Emission Designator	Analog Voice:	11K0F3E
	Digital (Voice+Data):	☒ VHF:7K74F1D-5W-12.5kHz ☒ VHF:7K74F1W-5W-12.5kHz ☒ VHF:7K74F1D-1W-12.5kHz ☒ VHF:7K74F1W-1W-12.5kHz
Rated Output Power	5W/1W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Maximum Transmitter Power	36.92dBm(5W-12.5kHz)	29.62dBm(1W-12.5kHz)
Antenna Designation	Detachable Antenna	
Antenna Gain	1.5dBi	
Frequency Tolerance	1.095ppm	

Note:

1. The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.
2. This equipment is capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth. DMR interphone's bandwidth is 12.5 kHz, and it has a double time slot, one is the speech time slot, one is the data time slot, just language sequence is satisfied with 4800 bps/6.25 kHz BW.

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2.2 TEST FREQUENCY LIST

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
Analog/Digital	12.5 kHz	136-174MHz	Bottom	136.025 MHz
	12.5 kHz	136-174MHz	Middle	155.7525 MHz
	12.5 kHz	136-174MHz	Top	173.975 MHz

Note:

In section KDB 634817 D01 Sections II) (f) (1) and (2):

Test at least one frequency in each band for each rule part applied under and ensure the device is capable of operating on the frequency under each rule part. This requirement may result in testing on multiple frequencies. Testing on one frequency may be acceptable if multiple listed bands for a rule part with a continuous frequency range are split to remove a conflict with other rules and the technical requirements in the split bands are the same. Additional requirements for RF exposure may apply.

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2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **2AWYH-H5RB**, filing to comply with Part 2, Part 90 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 90	Private Land Mobile Radio Services
2	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
3	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
4	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
5	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
6	KDB 579009 D03	KDB 579009 D03 Applications Part 90 Refarming Bands v01
7	KDB 634817 D01	KDB 634817 D01 Freq Range Listing for Grants v04r01

2.5 CALCULATION OF EMISSION INDICATORS

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

For FM Mode (ChannelSpacing: 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 Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1W

The 99% energy rule was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz.

F1D and F1W portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1W.

2.6 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

2.7 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 be in compliance with 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 be in compliance with 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

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	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 7.4V	LV:DC 6.29V/HV: DC 8.51V

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 EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9020A	MY53300860	Jun. 08, 2022	Jun. 07, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
preamplifier	ChengYi	EMC184045SE	980508	Oct. 29, 2021	Oct. 28, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 05, 2022	Jun. 04, 2023
HORN ANTENNA	EM	EM-AH-10180	/	Feb.24, 2022	Feb.23, 2023
SIGNAL GENERATOR	AGILENT	E4421B	MY43351603	Feb. 17, 2023	Feb. 16, 2024
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 05, 2022	Jun. 04, 2023
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 26, 2023	Apr. 25, 2024
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2022	May 21, 2024
Modulation Domain Analyzer	HP	53310A	3121A02467	Jun. 08, 2022	Jun. 07, 2024
Small environmental tester	ESPEC	SH-242	93008290	Aug. 03, 2022	Aug. 02, 2024
RF Communication Test Set	HP	8920B	US35010161	Aug. 03, 2022	Aug. 02, 2023
Attenuator	Weinachel Corp	58-30-33	ML030	Oct. 22, 2023	Oct. 21, 2023
RF Cable	R&S	1#	--	Each time	N/A
RF Cable	R&S	2#	--	Each time	N/A
Fliter-VHF	Microwave	N26460M1	498703	May 05, 2023	May 04, 2024

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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
☒ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	ID or Specification	Remark
1	DMR Digital Transceiver	RDH-16V	2AWYH-H5RB	EUT
2	Adapter	DLD-418	Input: AC 100-240V 0.2A Output: DC 12.5V 0.5A	AE
3	Charger	NA	Input: DC 12.5V 0.5A Output: DC 8.4V 0.45A	AE
4	Battery	BAT-RDH16	DC 7.4V 2000mAh	AE
5	Back Clip	NA	NA	AE

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4.5 SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC PART 90	Antenna Equipment	Pass
2	§90.205& 2.1046	Maximum Transmitter Power	Pass
3	§90.207& 2.1047	Modulation Characteristic	Pass
4	§2.1047	Audio Low Pass Filter Response	Pass
5	§90.209& 2.1049	Occupied Bandwidth	Pass
6	§90.210& 2.1049	Emission Mask	Pass
7	§90.213& 2.1055	Frequency Tolerance	Pass
8	§90.214	Transmitter Frequency Behavior	Pass
9	§90.210& 2.1051	Spurious Emission on Antenna Port	Pass
10	§90.210& 2.1053	Spurious Radiated Emission	Pass

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5.DESCRPTION OF TEST MODES

The EUT (**DMR Digital Transceiver**) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

NO.	TEST MODE DESCRIPTION	CHANNEL SEPARATION
1	TX Bottom channel-VHF	12.5 kHz
2	TX Middle channel-VHF	12.5 kHz
3	TX Top channel-VHF	12.5 kHz

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
5. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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6.FREQUENCY TOLERANCE

6.1 PROVISIONS APPLICABLE

- According to FCC §2.1055,§90.213, the frequency stability shall be measured with variation of ambient temperature from -30°C to $+50^{\circ}\text{C}$ centigrade.
- According to FCC Part 2 Section 2.1055(d)(2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacturer.
- According to FCC Part 90 Section 90.213, the frequency tolerance must be maintained within 0.00025% for 12.5 kHz channel separation and 0.0001% for 6.25 kHz channel separation.

6.2 MEASUREMENT PROCEDURE

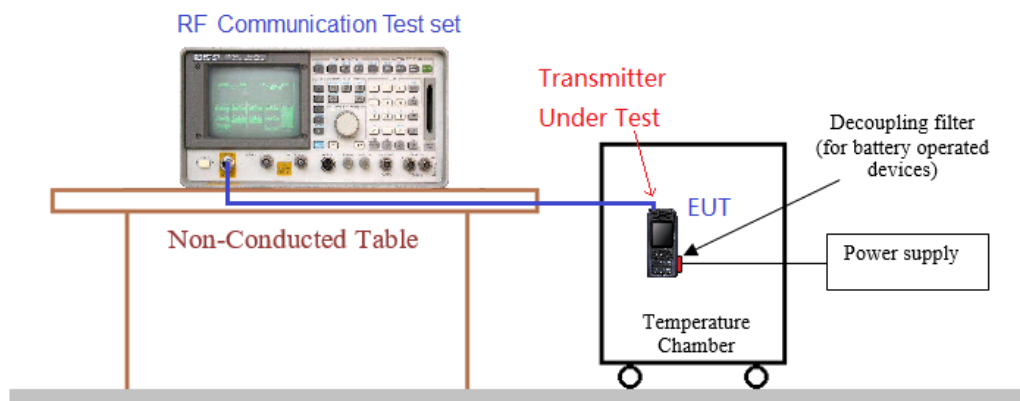
6.2.1 Frequency stability versus environmental temperature

- Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
- Turn on EUT and set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1kHz and Video Resolution Bandwidth to 1kHz and Frequency Span to 50kHz. Record this frequency as reference frequency.
- Set the temperature of chamber to 50°C . Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measured frequencies on each temperature step.

6.2.2 Frequency stability versus input voltage

- Setup the configuration per figure 1 for frequencies measured at temperature if it is within 15°C to 25°C . Otherwise, an environment chamber set for a temperature of 20°C shall be used. The EUT shall be powered by DC 7.4V.
- Set SA center frequency to the EUT radiated frequency. Set SA Resolution Bandwidth to 1 kHz and Video Resolution Bandwidth to 1kHz. Record this frequency as reference frequency.
- Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

6.3 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.

6.4 MEASUREMENT RESULTS

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF-5W						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		136.025	155.7525	173.975		
7.40	-30	0.339	0.653	0.540	2.5	Pass
	-20	0.532	0.591	0.647		
	-10	0.748	0.748	0.737		
	0	0.655	0.902	0.766		
	10	0.612	0.574	0.873		
	20	0.527	0.941	0.956		
	30	0.583	0.792	1.100		
	40	0.594	1.037	0.847		
	50	0.864	0.604	1.091		
8.51	20	1.042	0.897	0.732		
6.29	20	0.625	0.682	0.692		

12.5 kHz Channel Separation, Analog modulation, Assigned Frequency For VHF-1W						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		136.025	155.7525	173.975		
7.40	-30	0.805	0.861	0.509	2.5	Pass
	-20	1.077	0.790	0.792		
	-10	1.022	0.791	0.834		
	0	0.557	1.064	0.970		
	10	0.984	0.570	0.782		
	20	0.654	1.043	0.958		
	30	0.811	0.819	0.976		
	40	1.080	0.962	0.536		
	50	0.626	0.981	0.728		
8.51	20	0.557	0.761	0.747		
6.29	20	0.784	0.936	0.770		

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12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-5W						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		136.025	155.7525	173.975		
7.40	-30	1.092	0.772	0.941	2.5	Pass
	-20	0.635	0.655	0.984		
	-10	0.790	1.069	0.893		
	0	0.566	0.569	0.596		
	10	0.575	1.022	0.907		
	20	1.018	0.631	0.724		
	30	0.686	0.567	1.003		
	40	0.597	0.617	0.606		
	50	0.625	0.960	0.741		
8.51	20	0.747	1.095	0.845		
6.29	20	0.927	0.940	1.068		

12.5 kHz Channel Separation, Digital modulation, Assigned Frequency For VHF-1W						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		136.025	155.7525	173.975		
7.40	-30	0.606	0.749	0.577	2.5	Pass
	-20	0.825	0.774	1.082		
	-10	0.992	0.945	0.744		
	0	1.092	0.853	0.636		
	10	0.553	0.723	1.048		
	20	0.643	0.702	0.849		
	30	0.856	0.511	0.928		
	40	0.806	1.095	0.906		
	50	0.739	0.593	1.062		
8.51	20	0.708	1.013	0.564		
6.29	20	0.639	0.827	0.867		

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7. EMISSION BANDWIDTH

7.1 PROVISIONS APPLICABLE

FCC Part 90.209 & FCC Part 2.1049:

The authorized bandwidth shall be 11.25 kHz for 12.5 kHz channel separation and 6 kHz for 6.25 kHz channel separation.

7.2 MEASUREMENT PROCEDURE

1.The EUT was modulated by 2.5kHz sine wave audio signal; the level of the audio signal employed is 16dB greater than that necessary to produce 50% of rated system deviation.

Rated system deviation is 2.5 kHz for 12.5kHz channel spacing).

2.Spectrum set as follow:

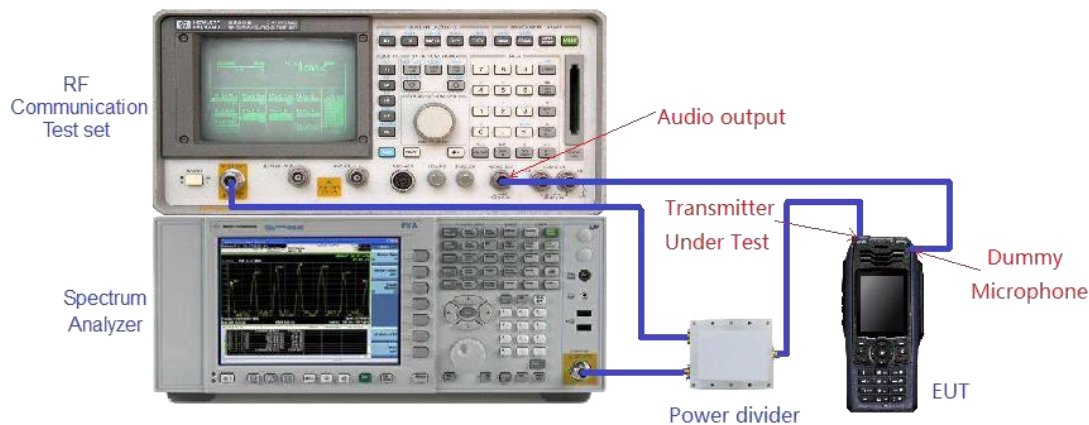
Centre frequency = fundamental frequency, span=50kHz for 12.5kHz channel spacing, RBW=100Hz, VBW=300Hz, Sweep = auto,

Detector function = peak, Trace = max hold

3.Set 99% Occupied Bandwidth and 26dB Occupied Bandwidth.

4.Measure and record the results in the test report.

7.3 MEASUREMENT SETUP



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7.4 MEASUREMENT RESULTS

Measurement Result of VHF-Analog Modulation-5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.981 kHz	10.18 kHz	11.25 kHz	Pass
155.7525MHz	7.554 kHz	10.12 kHz	11.25 kHz	Pass
173.975MHz	6.093 kHz	10.14 kHz	11.25 kHz	Pass

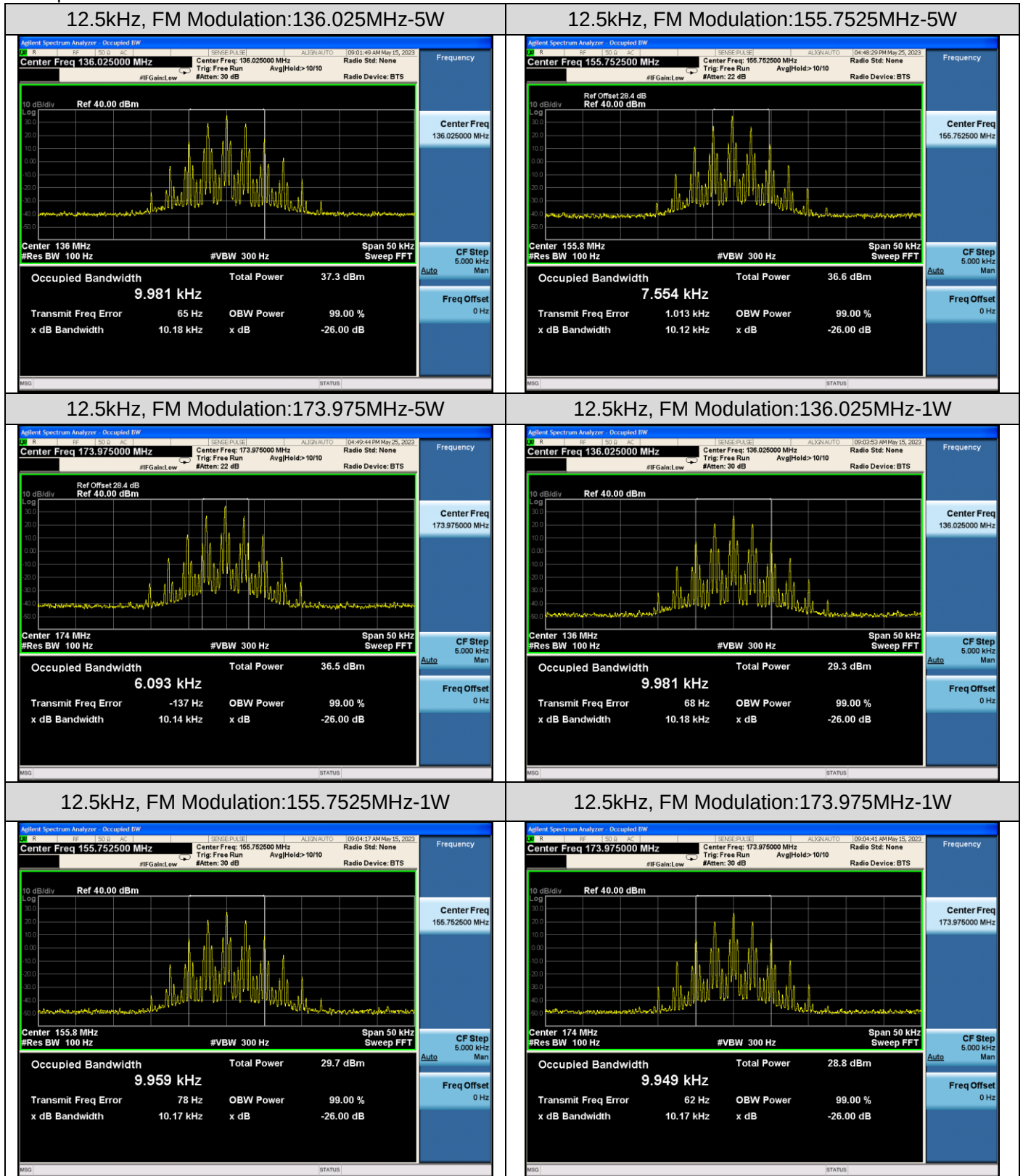
Measurement Result of VHF-Analog Modulation-1W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	9.981 kHz	10.18 kHz	11.25 kHz	Pass
155.7525MHz	9.959 kHz	10.17 kHz	11.25 kHz	Pass
173.975MHz	9.949 kHz	10.17 kHz	11.25 kHz	Pass

Measurement Result of VHF-Digital Modulation-5W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	7.918 kHz	10.57 kHz	11.25 kHz	Pass
155.7525MHz	7.745 kHz	9.870 kHz	11.25 kHz	Pass
173.975MHz	7.814 kHz	10.12 kHz	11.25 kHz	Pass

Measurement Result of VHF-Digital Modulation-1W				
Operating Frequency	12.5 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
136.025MHz	8.048 kHz	10.59 kHz	11.25 kHz	Pass
155.7525MHz	7.978 kHz	10.46 kHz	11.25 kHz	Pass
173.975MHz	7.862 kHz	10.62 kHz	11.25 kHz	Pass

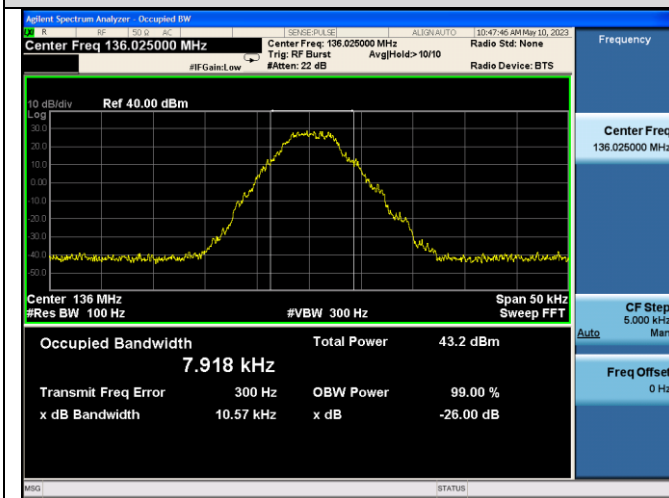
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Test plot as follows:

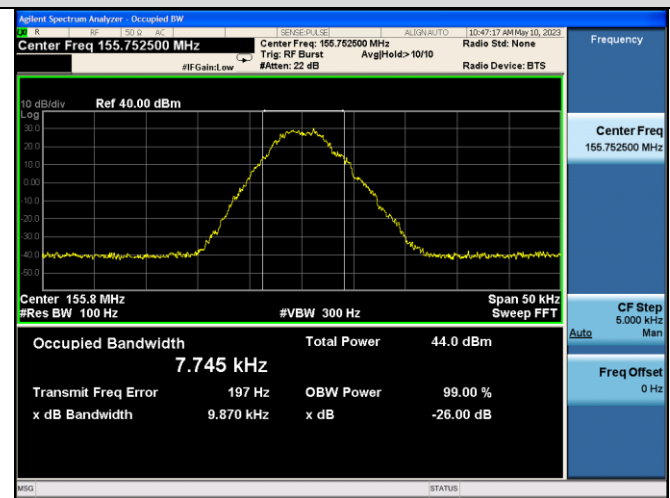


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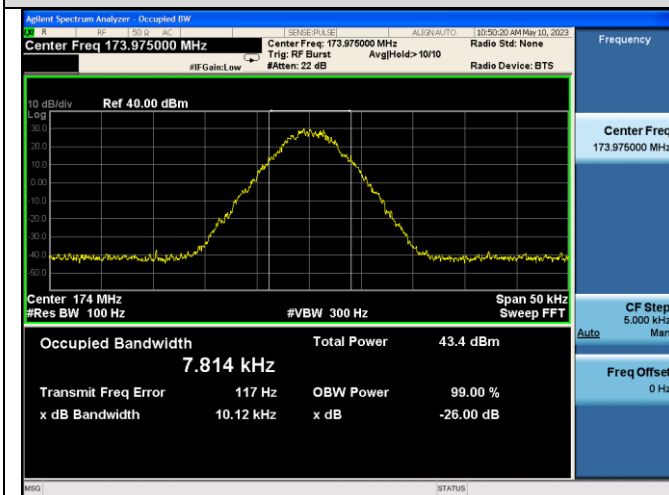
12.5kHz, 4FSK Modulation:136.025MHz-5W



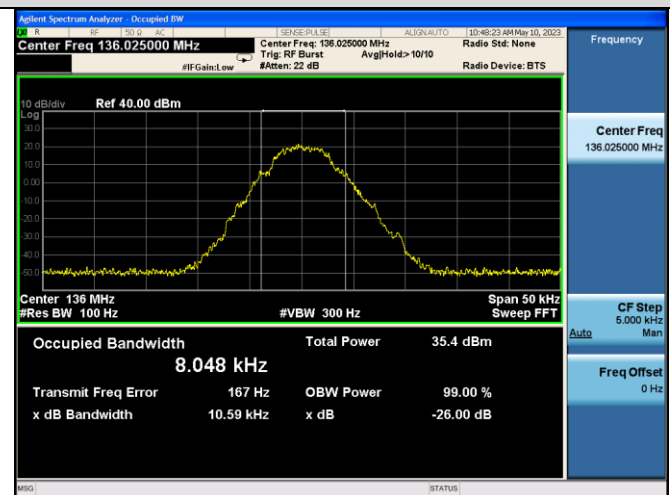
12.5kHz, 4FSK Modulation:155.7525MHz-5W



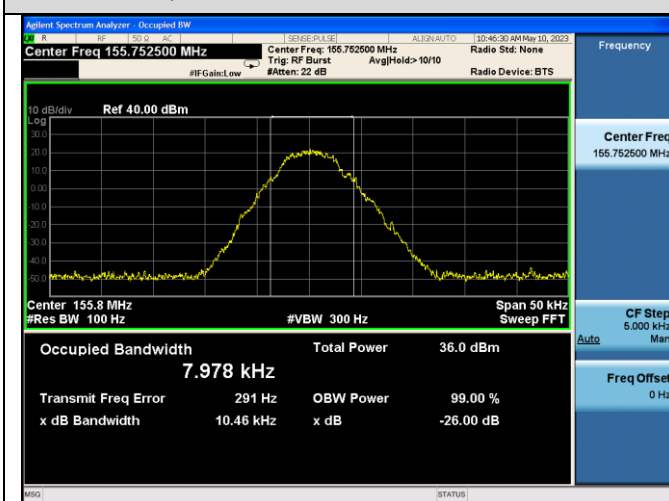
12.5kHz, 4FSK Modulation:173.975MHz-5W



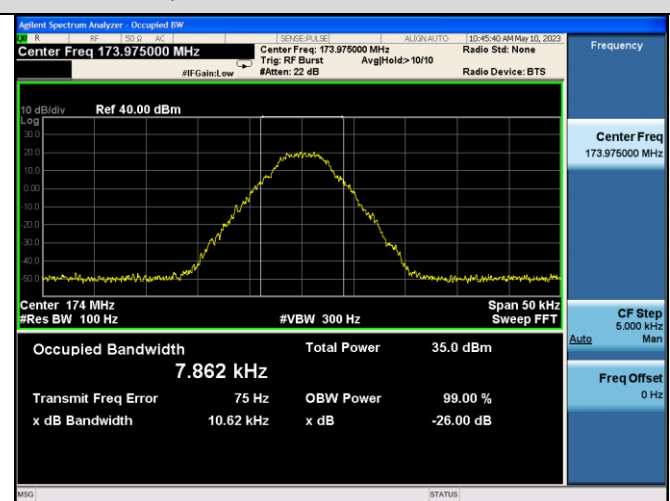
12.5kHz, 4FSK Modulation:136.025MHz-1W



12.5kHz, 4FSK Modulation:155.7525MHz-1W



12.5kHz, 4FSK Modulation:173.975MHz-1W



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8. SPURIOUS RADIATED EMISSION

8.1 PROVISIONS APPLICABLE

According to FCC §2.1053 and §90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with each channel separation.

Emission Mask D -for 12.5 kHz Channel Separation:

- (1) On any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_0 of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_0 of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is lesser attenuation.

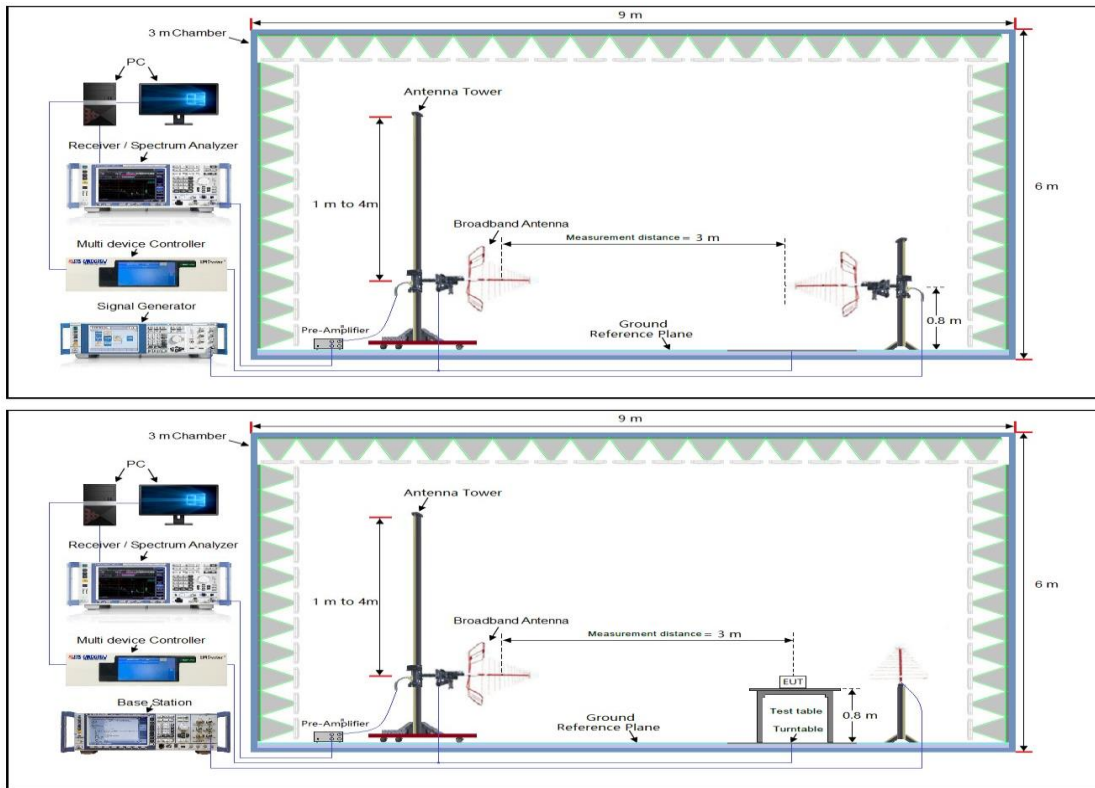
8.2 MEASUREMENT PROCEDURE

- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

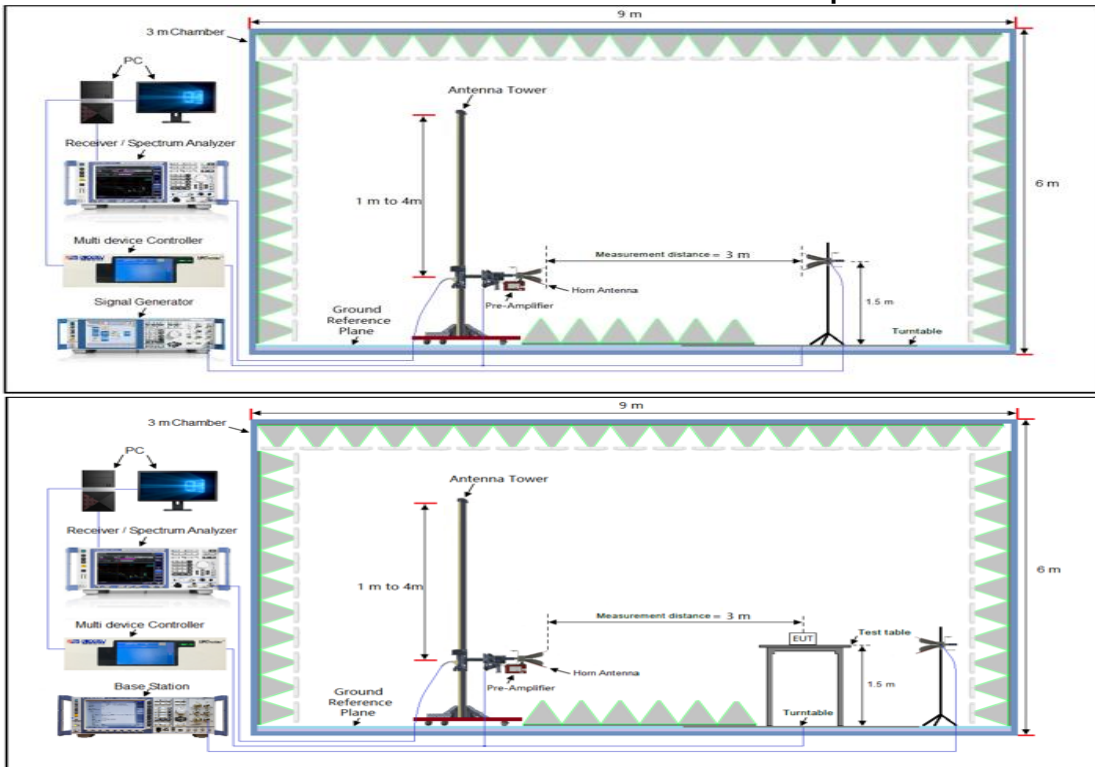
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8.3 MEASUREMENT SETUP

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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8.4 MEASUREMENT RESULTS

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

In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value.

The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

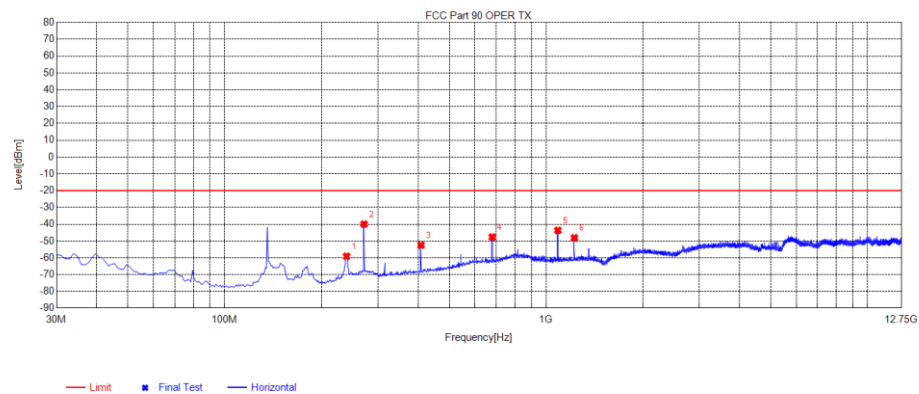
EIRP = "Read Value" + Measured substitution value + 2.15.

Test limit calculation:

Preliminary calculation	Final Result
At least $50 + 10 \log(P) = 50 + 10 \log(5) = 56.99$ (dB)	Limit=P- Preliminary calculation= $36.99 - 56.99 = -20$ dBm
At least $50 + 10 \log(P) = 50 + 10 \log(1) = 50.00$ (dB)	Limit=P- Preliminary calculation= $30.00 - 50.00 = -20$ dBm

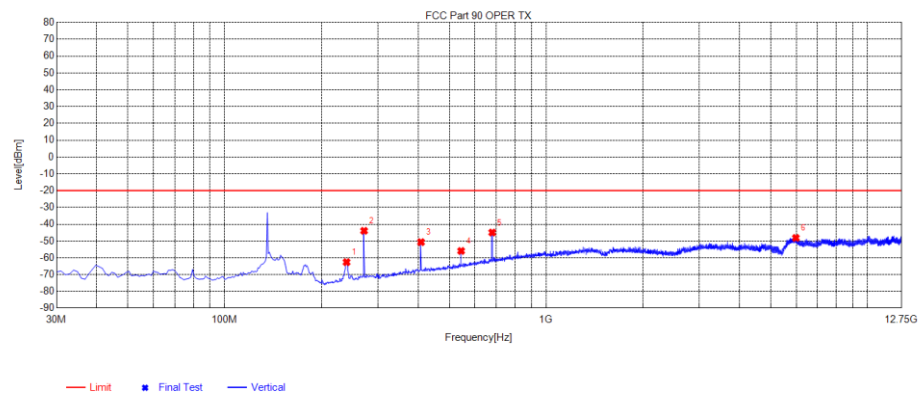
Note: The report only reflects high-power test data as the worst.

Test Mode:	TX:136.025MHz-FM 5W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	239.52	-90.97	-59.07	-20.00	39.07	31.90	190	Horizontal
2	271.53	-73.03	-39.97	-20.00	19.97	33.06	27	Horizontal
3	408.3	-87.07	-52.49	-20.00	32.49	34.58	62	Horizontal
4	679.9	-87.71	-47.64	-20.00	27.64	40.07	275	Horizontal
5	1088.1338	-39.62	-43.69	-20.00	23.69	-4.07	9	Horizontal
6	1224.4474	-44.32	-48.11	-20.00	28.11	-3.79	9	Horizontal

Test Mode:	TX:136.025MHz-FM 5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	239.52	-91.63	-62.60	-20.00	42.60	29.03	9	Vertical
2	271.53	-74.12	-43.94	-20.00	23.94	30.18	60	Vertical
3	408.3	-85.78	-50.67	-20.00	30.67	35.11	9	Vertical
4	544.1	-93.33	-55.92	-20.00	35.92	37.41	1	Vertical
5	679.9	-85.08	-44.96	-20.00	24.96	40.12	9	Vertical
6	5986.0236	-58.98	-48.19	-20.00	28.19	10.79	298	Vertical

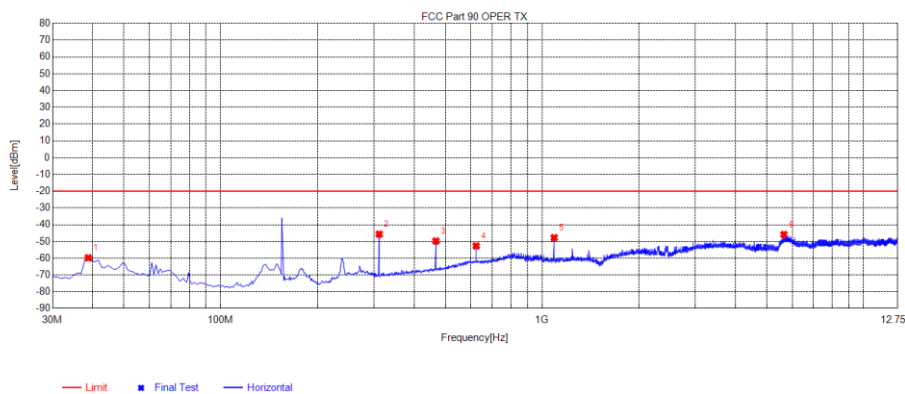
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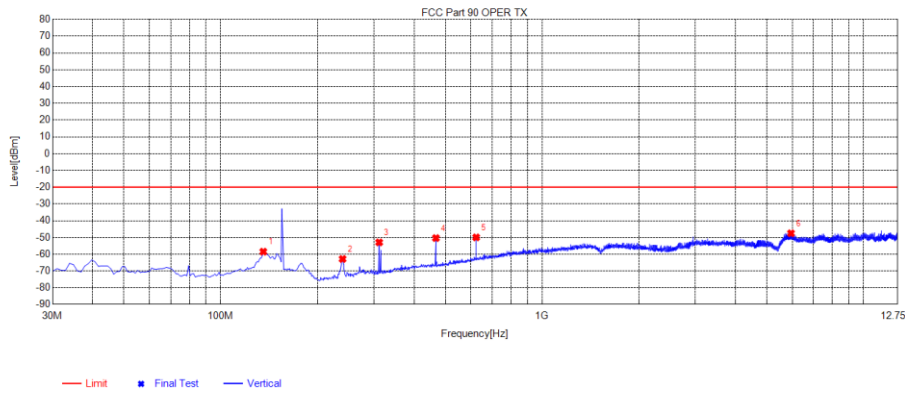
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Test Mode:	TX:155.7525MHz-FM 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	-94.73	-59.79	-20.00	39.79	34.94	350	Horizontal
2	311.3	-77.89	-45.65	-20.00	25.65	32.24	43	Horizontal
3	467.47	-85.49	-49.78	-20.00	29.78	35.71	292	Horizontal
4	623.64	-92.60	-52.69	-20.00	32.69	39.91	232	Horizontal
5	1090.484	-43.73	-47.80	-20.00	27.80	-4.07	206	Horizontal
6	5655.8156	-55.37	-45.86	-20.00	25.86	9.51	0	Horizontal

Test Mode:	TX:155.7525MHz-FM 5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	135.73	-92.59	-58.49	-20.00	38.49	34.10	42	Vertical
2	239.52	-91.87	-62.84	-20.00	42.84	29.03	62	Vertical
3	311.3	-84.32	-52.93	-20.00	32.93	31.39	18	Vertical
4	467.47	-86.30	-50.37	-20.00	30.37	35.93	18	Vertical
5	623.64	-89.09	-49.96	-20.00	29.96	39.13	1	Vertical
6	5948.4198	-57.95	-47.52	-20.00	27.52	10.43	346	Vertical

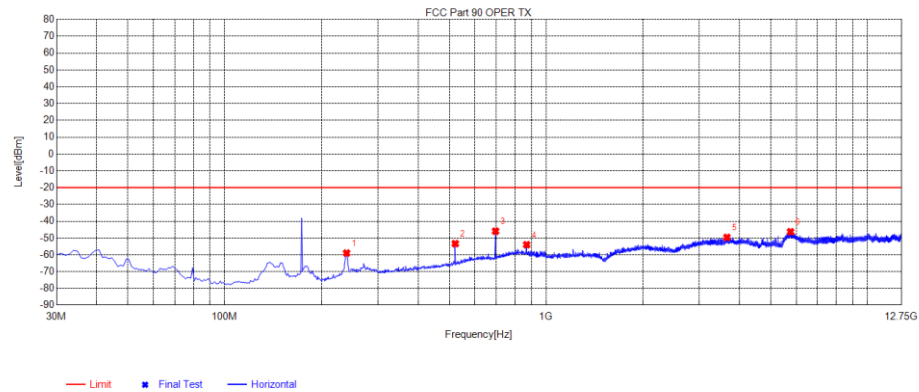
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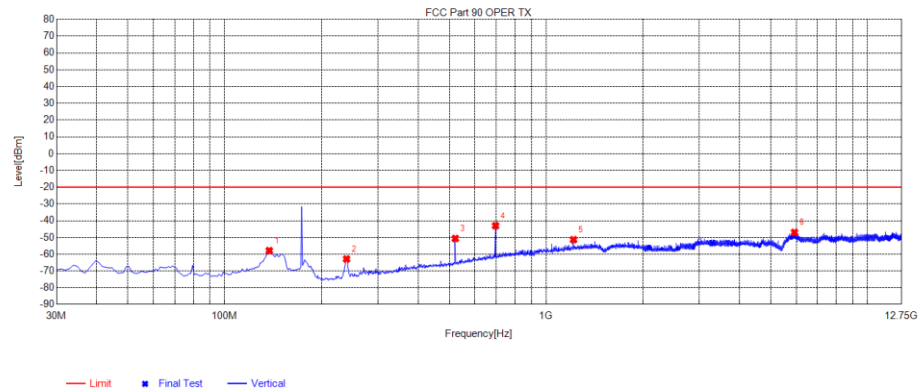
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Test Mode:	TX:173.975MHz-FM 5W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	239.52	-90.88	-58.98	-20.00	38.98	31.90	240	Horizontal
2	521.79	-90.45	-53.35	-20.00	33.35	37.10	284	Horizontal
3	696.39	-86.05	-45.94	-20.00	25.94	40.11	222	Horizontal
4	870.02	-97.10	-54.02	-20.00	34.02	43.08	230	Horizontal
5	3653.4153	-53.99	-49.64	-20.00	29.64	4.35	4	Horizontal
6	5761.5762	-56.19	-46.29	-20.00	26.29	9.90	258	Horizontal

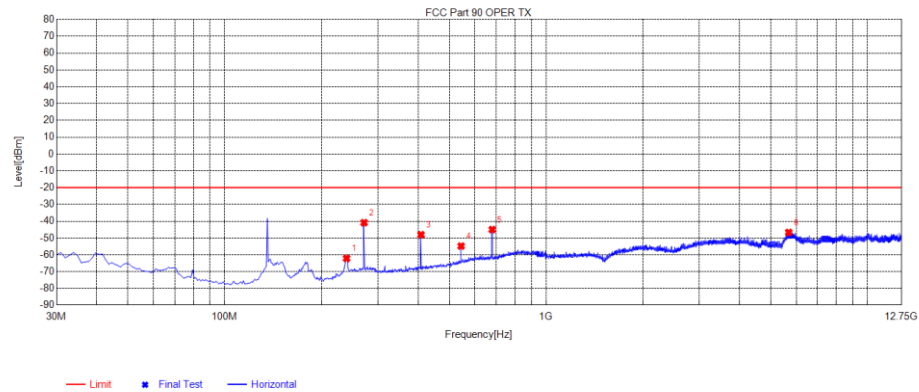
Test Mode:	TX:173.975MHz-FM 5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	137.67	-92.06	-57.83	-20.00	37.83	34.23	138	Vertical
2	239.52	-91.89	-62.86	-20.00	42.86	29.03	43	Vertical
3	521.79	-87.53	-50.63	-20.00	30.63	36.90	360	Vertical
4	696.39	-83.40	-42.99	-20.00	22.99	40.41	360	Vertical
5	1217.3967	-51.61	-51.33	-20.00	31.33	0.28	164	Vertical
6	5928.4428	-57.22	-46.98	-20.00	26.98	10.24	138	Vertical

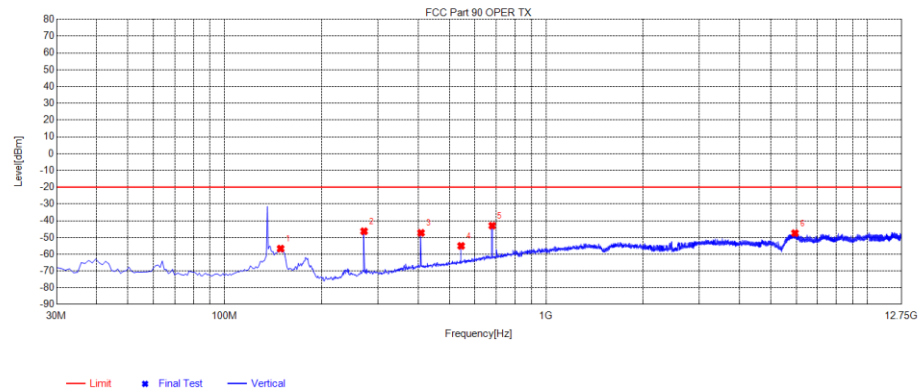
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Test Mode:	TX:136.025MHz-4FSK-5W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	239.52	-94.04	-62.14	-20.00	42.14	31.90	359	Horizontal
2	271.53	-73.96	-40.90	-20.00	20.90	33.06	106	Horizontal
3	408.3	-82.63	-48.05	-20.00	28.05	34.58	298	Horizontal
4	544.1	-92.69	-54.81	-20.00	34.81	37.88	288	Horizontal
5	679.9	-85.05	-44.98	-20.00	24.98	40.07	254	Horizontal
6	5687.5438	-56.32	-46.69	-20.00	26.69	9.63	0	Horizontal

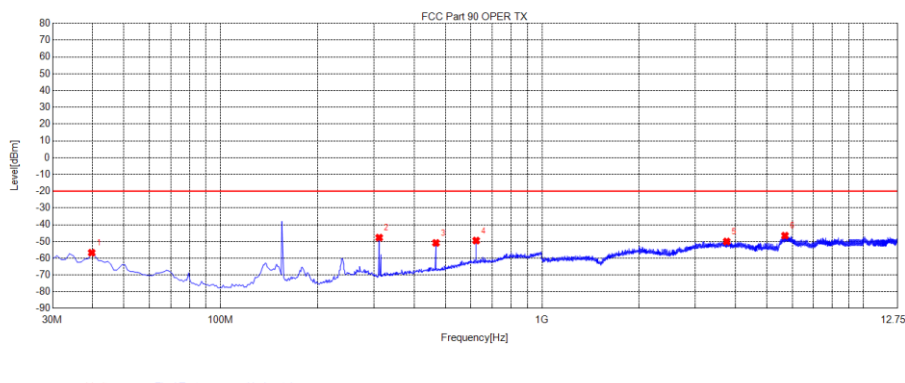
Test Mode:	TX:136.025MHz-4FSK 5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	149.31	-90.41	-56.66	-20.00	36.66	33.75	360	Vertical
2	271.53	-76.51	-46.33	-20.00	26.33	30.18	360	Vertical
3	408.3	-82.39	-47.28	-20.00	27.28	35.11	360	Vertical
4	544.1	-92.44	-55.03	-20.00	35.03	37.41	360	Vertical
5	679.9	-83.10	-42.98	-20.00	22.98	40.12	360	Vertical
6	5946.0696	-57.86	-47.45	-20.00	27.45	10.41	360	Vertical

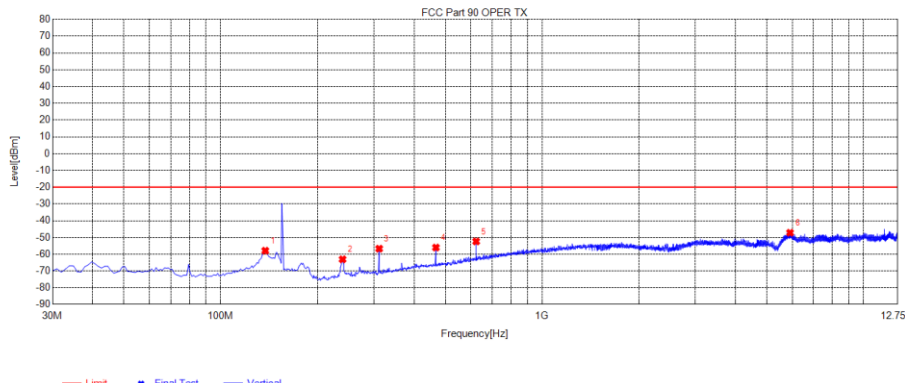
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the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

Test Mode:	TX:155.7525MHz-4FSK 5W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	39.7	-91.71	-56.72	-20.00	36.72	34.99	0	Horizontal
2	311.3	-79.98	-47.74	-20.00	27.74	32.24	59	Horizontal
3	467.47	-86.59	-50.88	-20.00	30.88	35.71	305	Horizontal
4	623.64	-89.40	-49.49	-20.00	29.49	39.91	315	Horizontal
5	3753.3003	-54.52	-50.05	-20.00	30.05	4.47	121	Horizontal
6	5698.1198	-56.23	-46.57	-20.00	26.57	9.66	185	Horizontal

Test Mode:	TX:155.7525MHz-4FSK 5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	137.67	-92.13	-57.90	-20.00	37.90	34.23	360	Vertical
2	239.52	-92.08	-63.05	-20.00	43.05	29.03	119	Vertical
3	311.3	-88.08	-56.69	-20.00	36.69	31.39	137	Vertical
4	467.47	-91.95	-56.02	-20.00	36.02	35.93	9	Vertical
5	623.64	-91.50	-52.37	-20.00	32.37	39.13	183	Vertical
6	5909.641	-57.26	-47.21	-20.00	27.21	10.05	338	Vertical

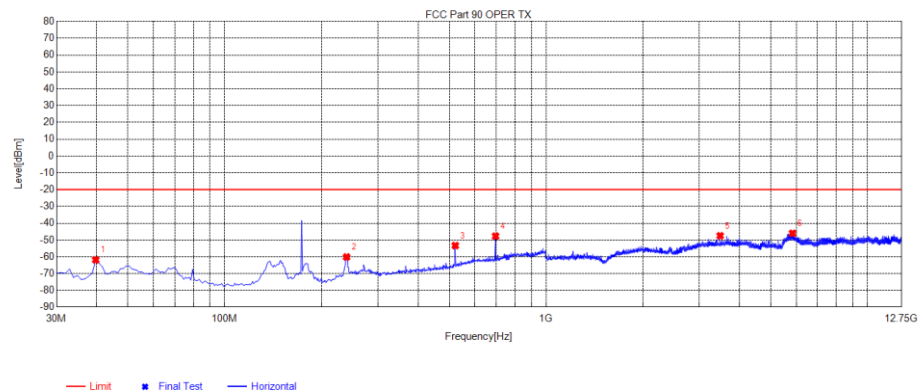
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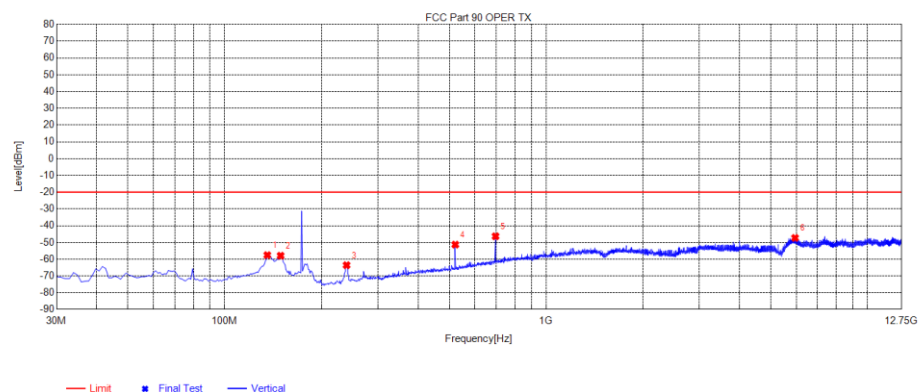
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Test Mode:	TX:173.975MHz-4FSK 5W	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	39.7	-96.81	-61.82	-20.00	41.82	34.99	0	Horizontal
2	239.52	-92.00	-60.10	-20.00	40.10	31.90	223	Horizontal
3	521.79	-90.43	-53.33	-20.00	33.33	37.10	305	Horizontal
4	696.39	-87.82	-47.71	-20.00	27.71	40.11	167	Horizontal
5	3479.498	-51.62	-47.48	-20.00	27.48	4.14	23	Horizontal
6	5843.8344	-56.23	-46.02	-20.00	26.02	10.21	15	Horizontal

Test Mode:	TX:173.975MHz-4FSK 5W	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	135.73	-91.65	-57.55	-20.00	37.55	34.10	326	Vertical
2	149.31	-91.64	-57.89	-20.00	37.89	33.75	35	Vertical
3	239.52	-92.60	-63.57	-20.00	43.57	29.03	334	Vertical
4	521.79	-88.20	-51.30	-20.00	31.30	36.90	19	Vertical
5	696.39	-86.74	-46.33	-20.00	26.33	40.41	181	Vertical
6	5950.7701	-57.76	-47.31	-20.00	27.31	10.45	360	Vertical

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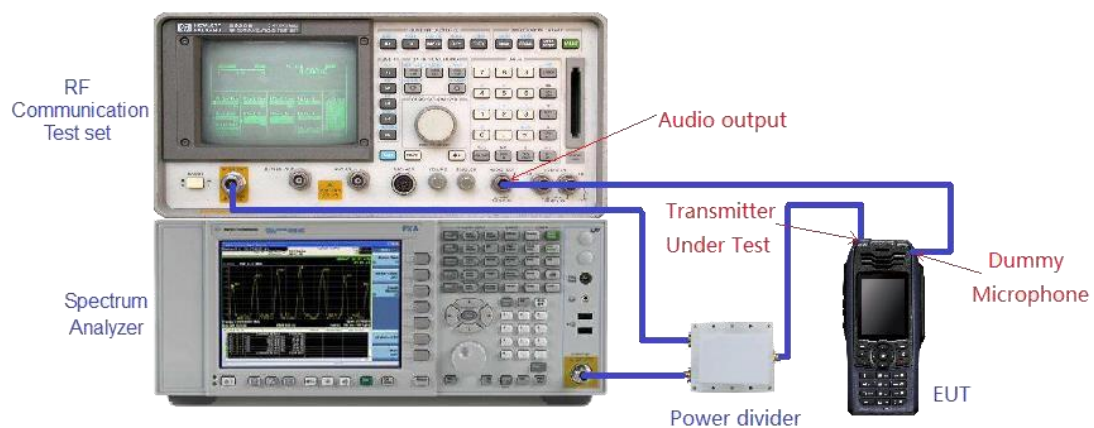
8.5 EMISSION MASK PLOT

The detailed procedure employed for Emission Mask measurements are specified as following:

-Connect the equipment as illustrated.

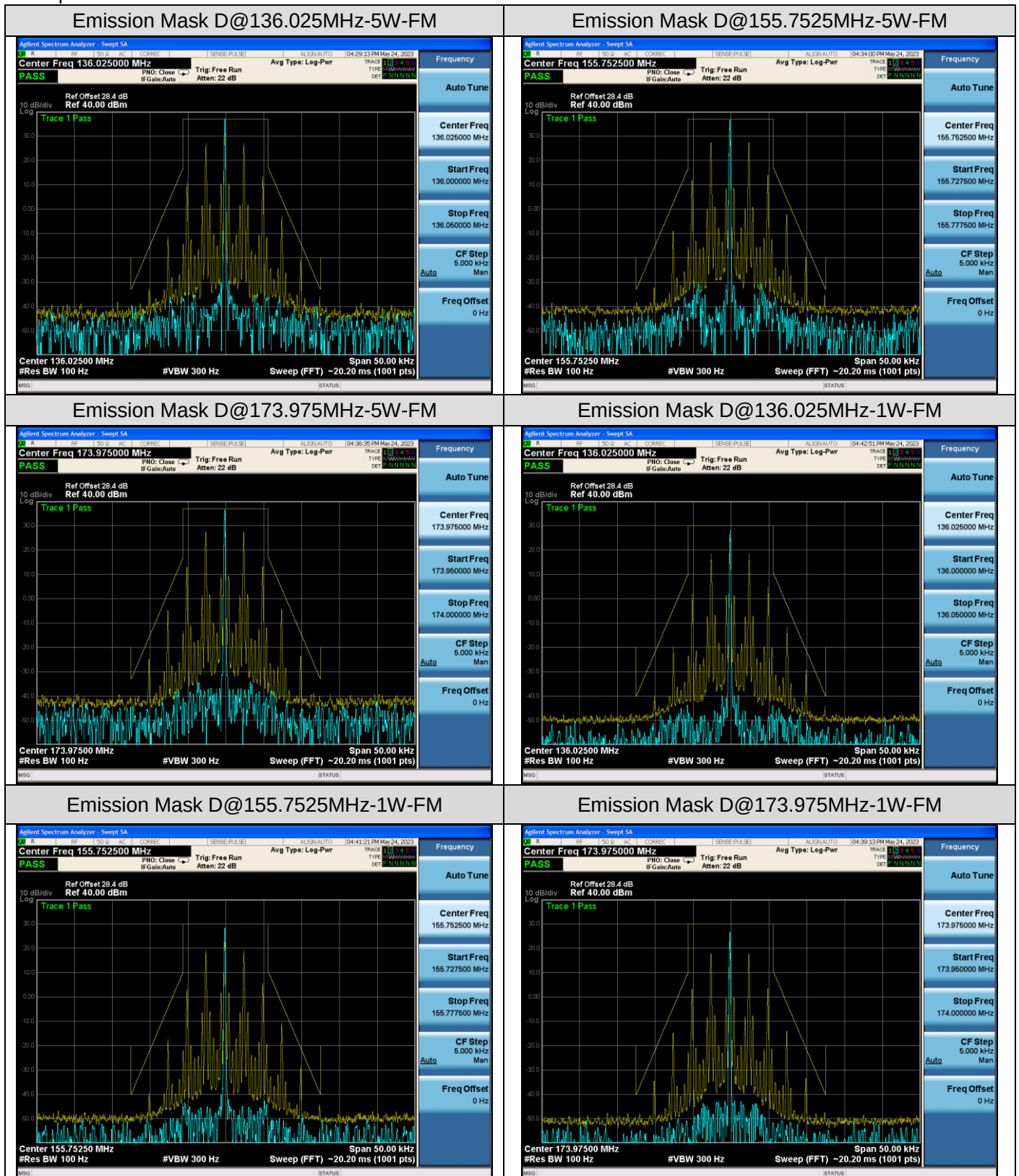
-Spectrum set as follow:

1. Centre frequency = fundamental frequency, Span=50kHz for 12.5kHz and 25kHz channel spacing, RBW=100Hz, VBW=300Hz for 12.5kHz, RBW=300Hz, VBW=1000Hz for 25kHz, Sweep = auto, Detector function = peak, Trace = max hold
2. Key the transmitter, and set the level of the unmodulated carrier to a fullscale reference line. This is the 0dB reference for the measurement.
3. Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation (Rated system deviation is 2.5 kHz for 12.5kHz channel spacing). The input level shall be established at the frequency of maximum response of the audio modulating circuit.
4. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
5. Measure and record the results in the test report.



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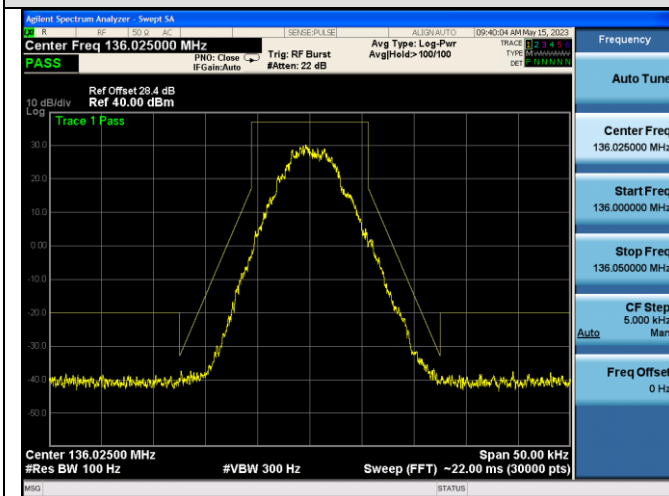
Test plot as follows:



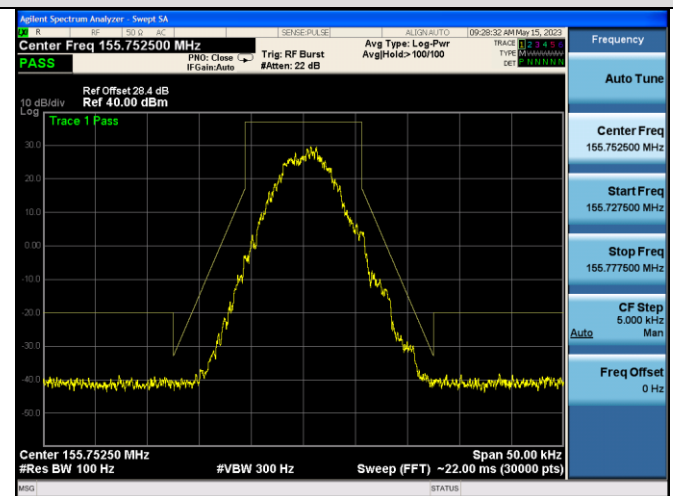
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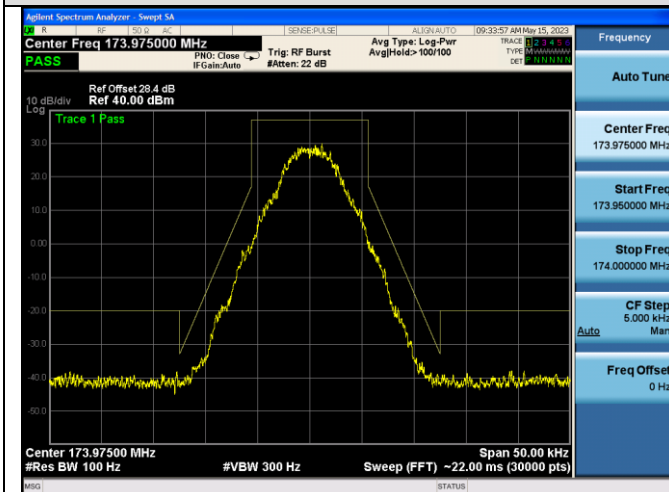
Emission Mask D@136.025MHz-5W-4FSK



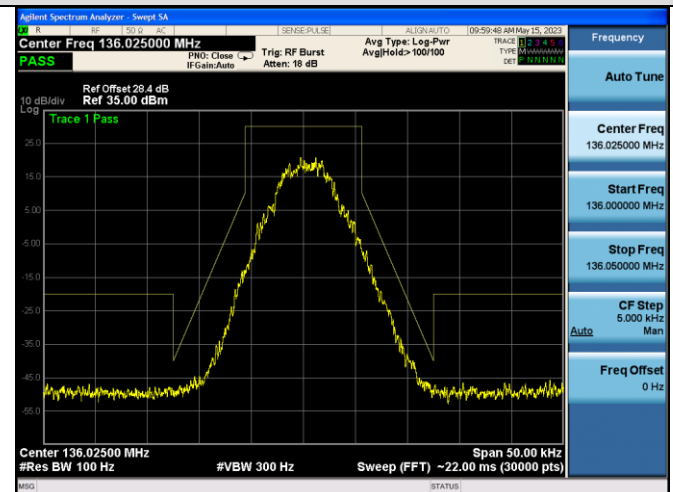
Emission Mask D@155.7525MHz-5W-4FSK



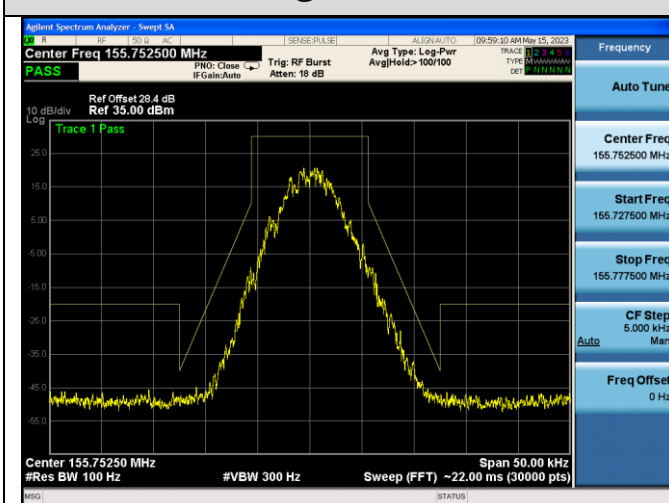
Emission Mask D@173.975MHz-5W-4FSK



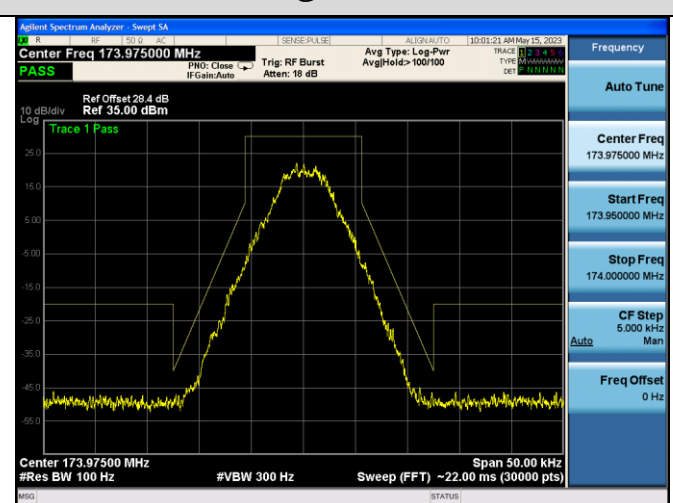
Emission Mask D@136.025MHz-1W-4FSK



Emission Mask D@155.7525MHz-1W-4FSK



Emission Mask D@173.975MHz-1W-4FSK



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9. MODULATION CHARACTERISTICS

9.1 PROVISIONS APPLICABLE

According to FCC§2.1047 and §90.207, for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

9.2 MEASUREMENT METHOD

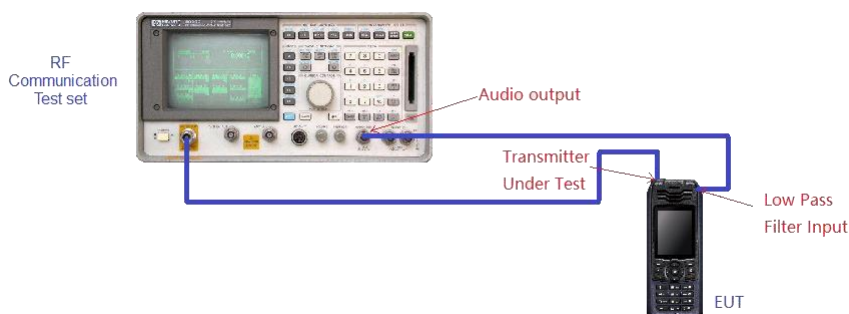
9.2.1 Modulation Limit

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1kHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step 1 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

9.2.2 Audio Frequency Response

- (1). Configure the EUT as shown in figure 1.
- (2). Adjust the audio input for 20% of rated system deviation at 1 kHz using this level as a reference (0 dB).
- (3). Vary the Audio frequency from 100 Hz to 10 kHz and record the frequency deviation.
- (4). Audio Frequency Response = $20\log_{10}(\text{Deviation of test frequency}/\text{Deviation of 1 kHz reference})$.

9.3 MEASUREMENT SETUP

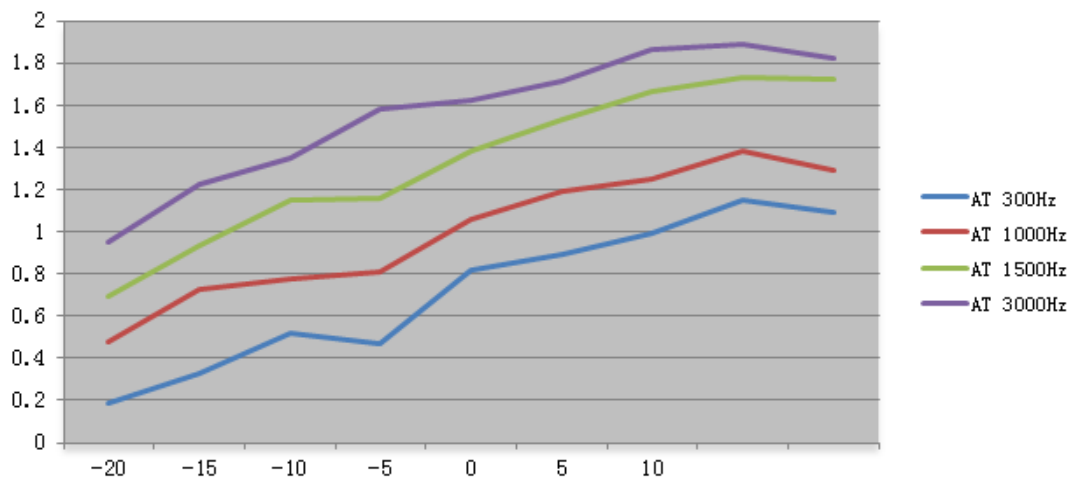


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9.4 MEASUREMENT RESULTS

(A). MODULATION LIMIT:

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz				
Modulation Level (dB)	Peak Freq. Deviation At 300 Hz (kHz)	Peak Freq. Deviation At 1000 Hz (kHz)	Peak Freq. Deviation At 1500 Hz (kHz)	Peak Freq. Deviation At 3000 Hz (kHz)
-20	0.19	0.48	0.69	0.95
-15	0.33	0.73	0.93	1.22
-10	0.52	0.78	1.15	1.35
-5	0.47	0.81	1.16	1.58
0	0.82	1.06	1.38	1.62
+5	0.89	1.19	1.53	1.71
+10	0.99	1.25	1.66	1.86
+15	1.15	1.38	1.73	1.89
+20	1.09	1.29	1.72	1.82

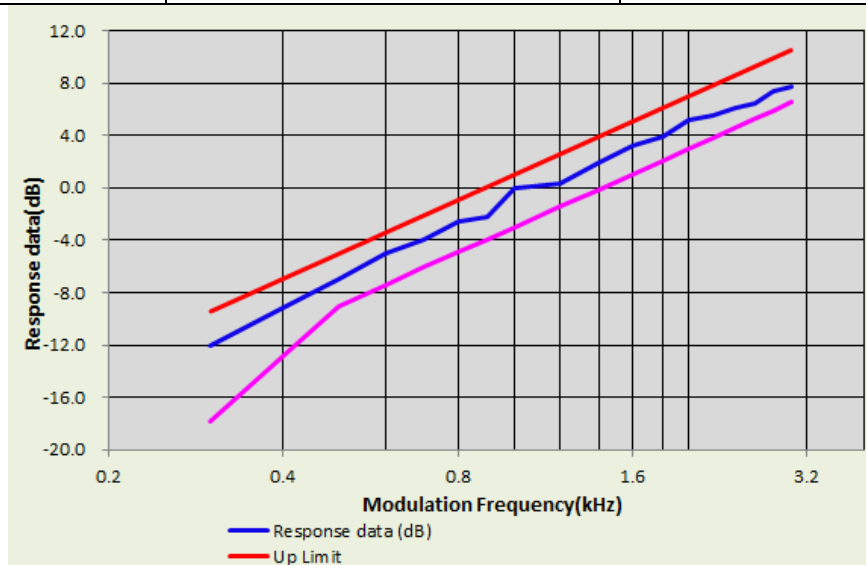


Note: All the modes had been tested, but only the worst data recorded in the report.

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(B). AUDIO FREQUENCY RESPONSE:

12.5kHz, Analog modulation, Assigned Frequency:136.025MHz		
Frequency (Hz)	Deviation (kHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.23	-12.04
400	0.32	-9.17
500	0.41	-7.02
600	0.52	-4.96
700	0.58	-4.01
800	0.68	-2.63
900	0.71	-2.25
1000	0.92	0.00
1200	0.95	0.28
1400	1.15	1.94
1600	1.34	3.27
1800	1.45	3.95
2000	1.66	5.13
2400	1.74	5.54
2500	1.85	6.07
2800	1.94	6.48
3000	2.15	7.37



Note: All the modes had been tested, but only the worst data recorded in the report.

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10. MAXIMUM TRANSMITTER POWER

10.1 PROVISIONS APPLICABLE

Per FCC §2.1046. § 90.205: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

10.2 MEASUREMENT METHOD

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator. In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The "Read Value" is the spectrum reading of maximum power value.

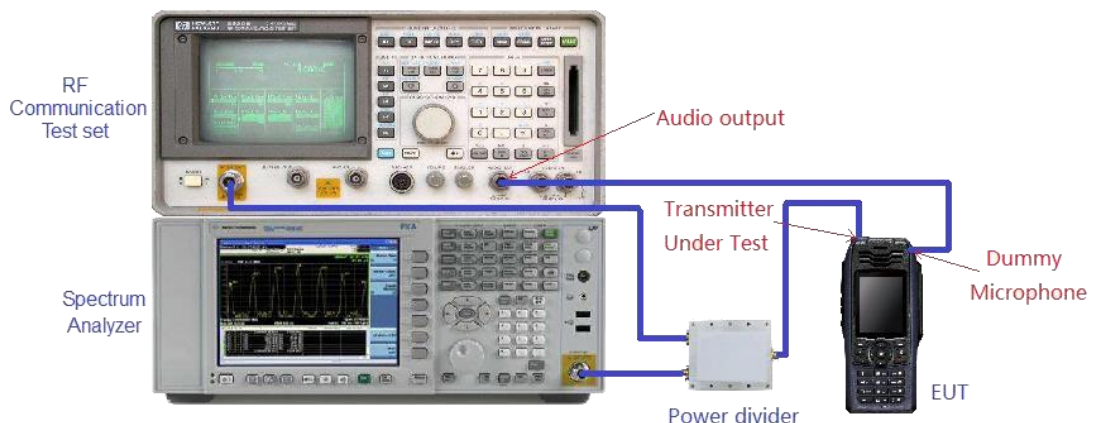
The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum.

So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

EIRP = "Read Value" + Measured substitution value + 2.15.

10.3 MEASUREMENT METHOD

☒ Conducted Output Power:



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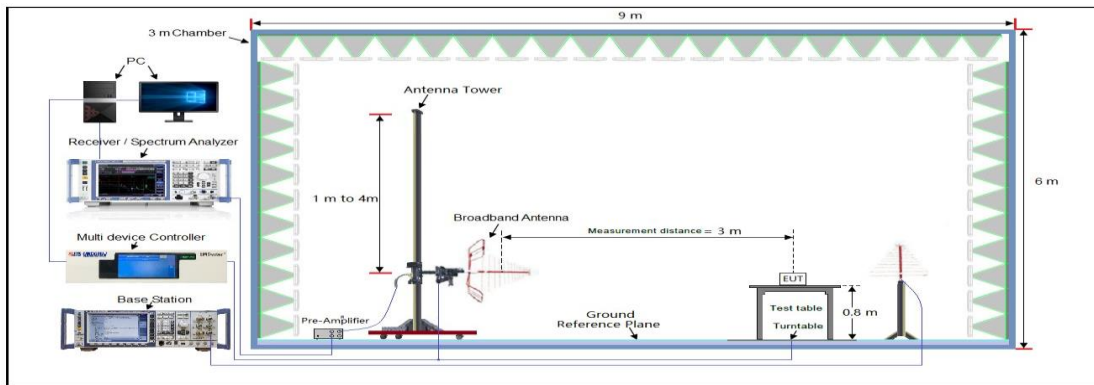
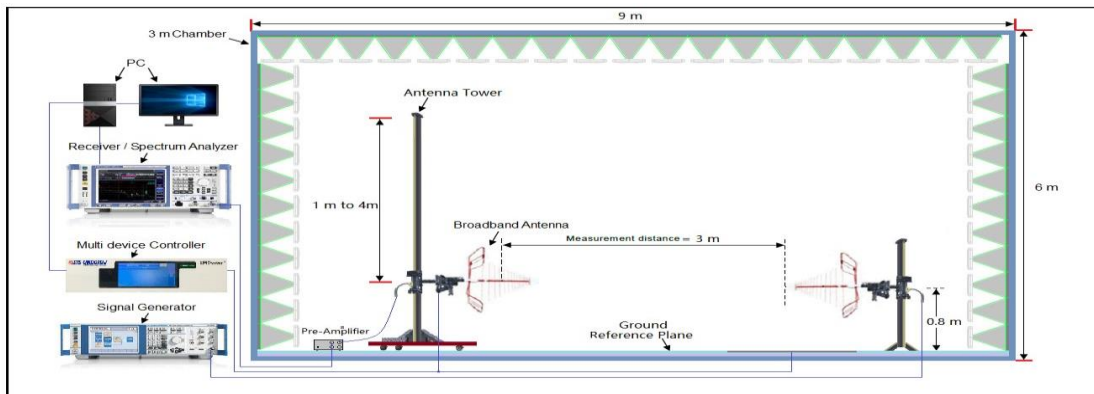
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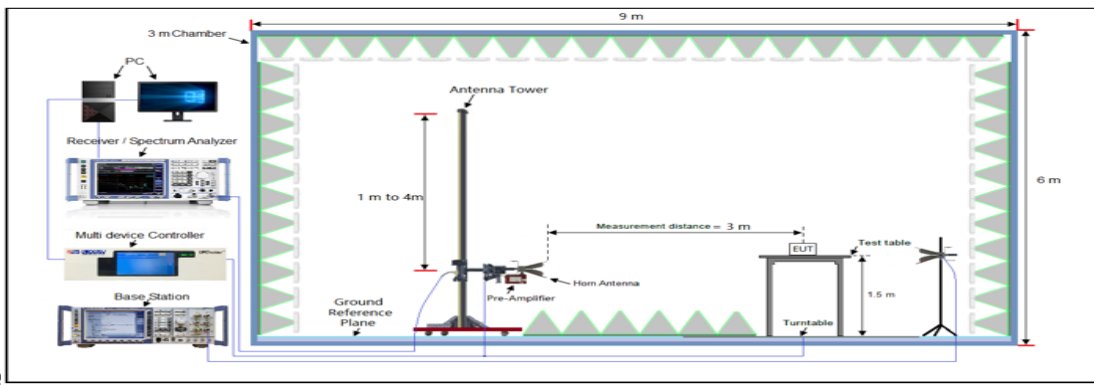
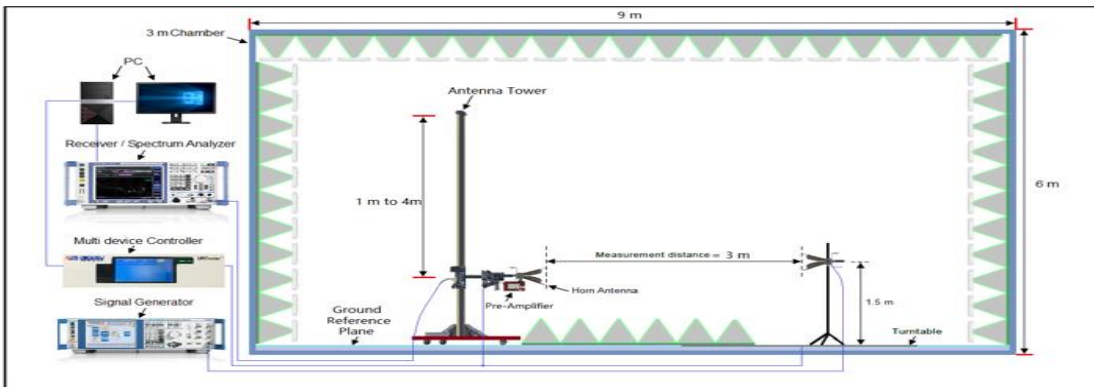
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☒ Effective Radiated Power:

Radiated Below 1GHz



Radiated Above 1 GHz



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10.4 MEASUREMENT RESULTS

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 36.99dBm(5W)
Analog +Voice	12.5 kHz	Bottom(136.025MHz)	36.92
		Middle(155.7525MHz)	36.82
		Top (173.975MHz)	36.83
Digital (Voice+Data)	12.5 kHz	Bottom(136.025MHz)	36.91
		Middle(155.7525MHz)	36.82
		Top (173.975MHz)	36.81

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
			For 30.00dBm(1W)
Analog +Voice	12.5 kHz	Bottom(136.025MHz)	29.62
		Middle(155.7525MHz)	29.54
		Top (173.975MHz)	28.80
Digital (Voice+Data)	12.5 kHz	Bottom(136.025MHz)	29.12
		Middle(155.7525MHz)	29.54
		Top (173.975MHz)	28.79

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Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog +Voice	136.0250	106.12	V	30.89	0.62	6.5	36.77	36.99
	136.0250	106.10	H	30.87	0.62	6.5	36.75	36.99
	155.7525	106.05	V	30.82	0.62	6.5	36.70	36.99
	155.7525	106.01	H	30.78	0.62	6.5	36.66	36.99
	173.9750	106.03	V	30.8	0.62	6.5	36.68	36.99
	173.9750	105.94	H	30.71	0.62	6.5	36.59	36.99
Digital (Voice+Data)	136.0250	106.04	V	30.81	0.62	6.5	36.69	36.99
	136.0250	105.89	H	30.66	0.62	6.5	36.54	36.99
	155.7525	105.9	V	30.67	0.62	6.5	36.55	36.99
	155.7525	105.78	H	30.55	0.62	6.5	36.43	36.99
	173.9750	105.84	V	30.61	0.62	6.5	36.49	36.99
	173.9750	105.8	H	30.57	0.62	6.5	36.45	36.99

Radiated Power Measurement Results								
Test Mode	Frequency (MHz)	Reading Level (dBuv/m)	Antenna Polarization	S.G. (dBm)	Cable Loss (dB)	Ant.Gain (dBi)	ERP Results (dBm)	Limit (dBm)
Analog +Voice	136.0250	98.84	V	23.61	0.62	6.5	29.49	30.00
	136.0250	98.73	H	23.50	0.62	6.5	29.38	30.00
	155.7525	98.78	V	23.55	0.62	6.5	29.43	30.00
	155.7525	98.66	H	23.43	0.62	6.5	29.31	30.00
	173.9750	98.09	V	22.86	0.62	6.5	28.74	30.00
	173.9750	98.01	H	22.78	0.62	6.5	28.66	30.00
Digital (Voice+Data)	136.0250	98.64	V	23.41	0.62	6.5	29.29	30.00
	136.0250	98.46	H	23.23	0.62	6.5	29.11	30.00
	155.7525	98.5	V	23.27	0.62	6.5	29.15	30.00
	155.7525	98.47	H	23.24	0.62	6.5	29.12	30.00
	173.9750	97.88	V	22.65	0.62	6.5	28.53	30.00
	173.9750	97.84	H	22.61	0.62	6.5	28.49	30.00

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Note: Calculation Formula: $CP = R + A + L$

- (1) CP: The final Conducted Power
- (2) R: The reading value from spectrum analyzer
- (3) A: The attenuation value of the used attenuator
- (4) L: The loss of all connection cables
- (5) Measurement Result=Peak Power (Max)

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11. SPURIOUS EMISSION ON ANTENNA PORT

11.1 PROVISIONS APPLICABLE

Please refer to FCC 47 CFR 2.1051, 2.1057 & 90.210 for specification details.

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

FCC Rules	Attenuation Limit (dBc)
§ 90.210	At least 50 + 10 log (P) dB

50 +10 log (Pwatts)

Note: In general, the worse case attenuation requirement shown above was applied.

Calculation: Limit (dBm) =EL-50-10log10 (TP)

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

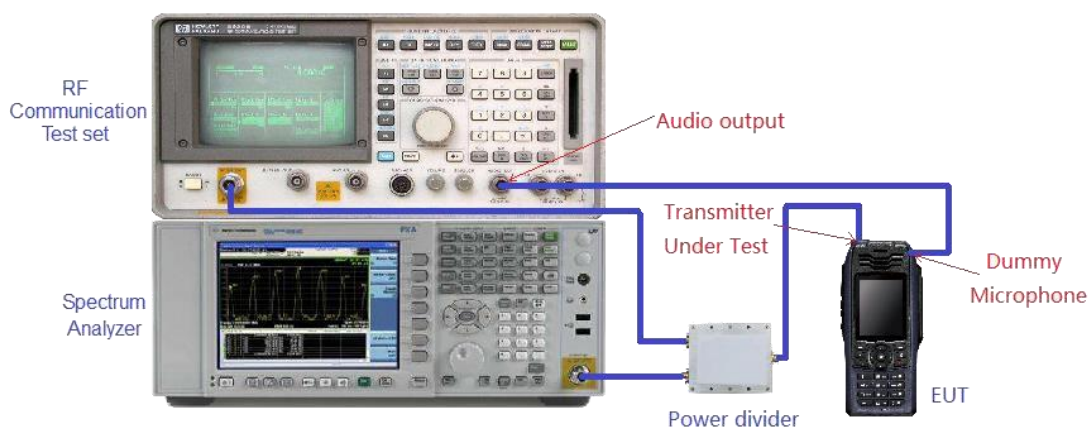
In this application, the EL is P(dBm)

Limit (dBm) = P(dBm)-50-10 log (Pwatts) = -20dBm

11.2 MEASUREMENT METHOD

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 show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
3. Set RBW 100 kHz, VBW 300 kHz in the frequency band 30MHz to 1GHz,while set RBW=1MHz.VBW=3MHz from the 1GHz to 10th Harmonic.
4. 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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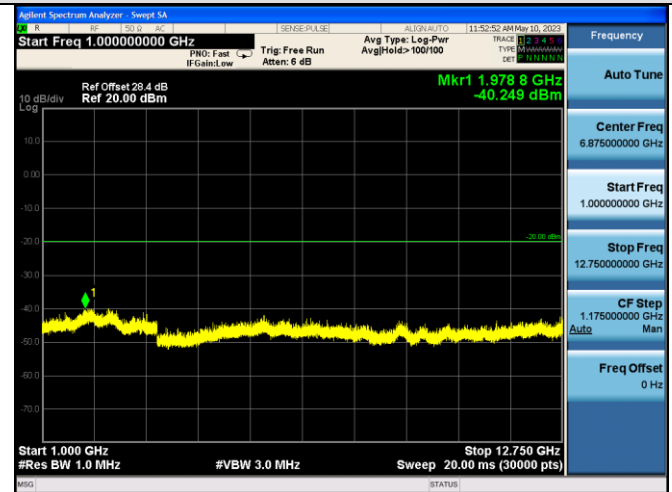
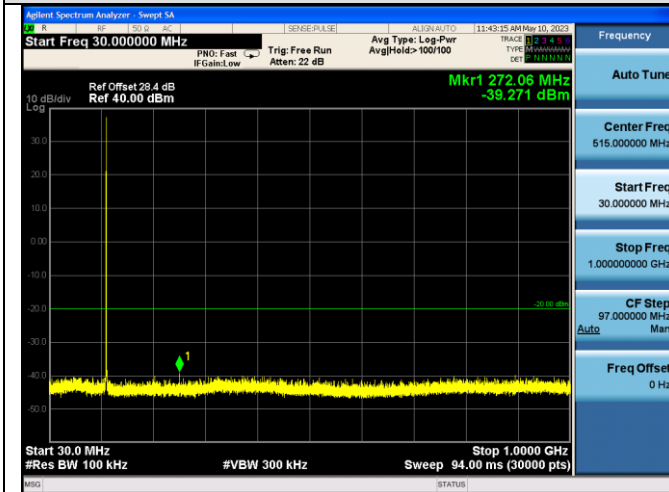
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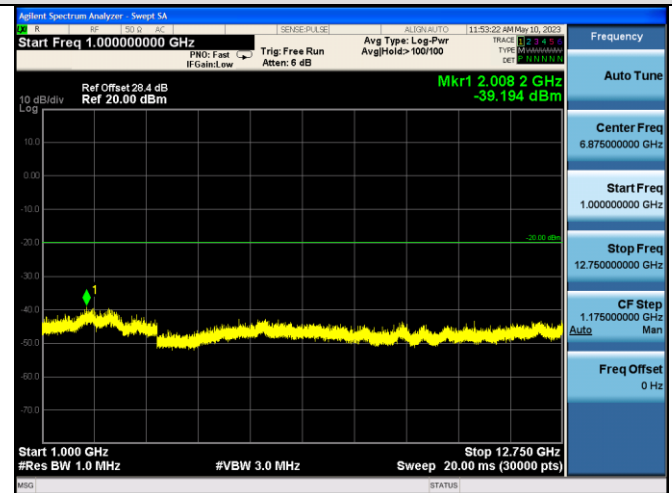
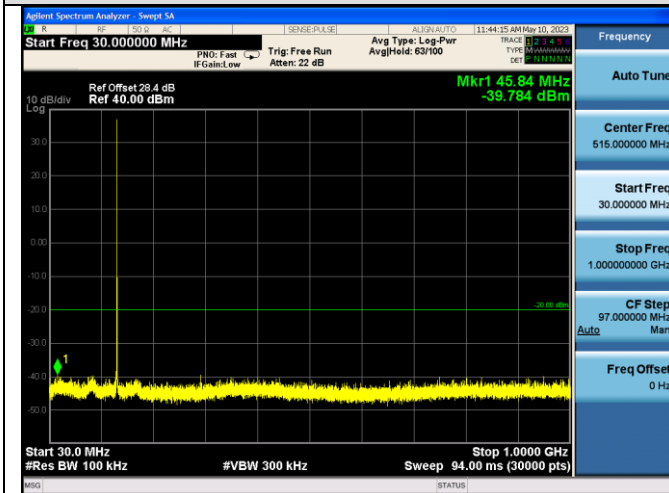
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11.4 MEASUREMENT RESULTS

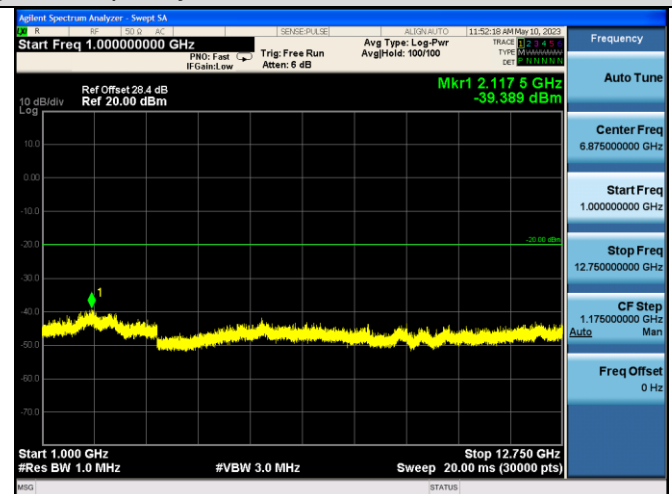
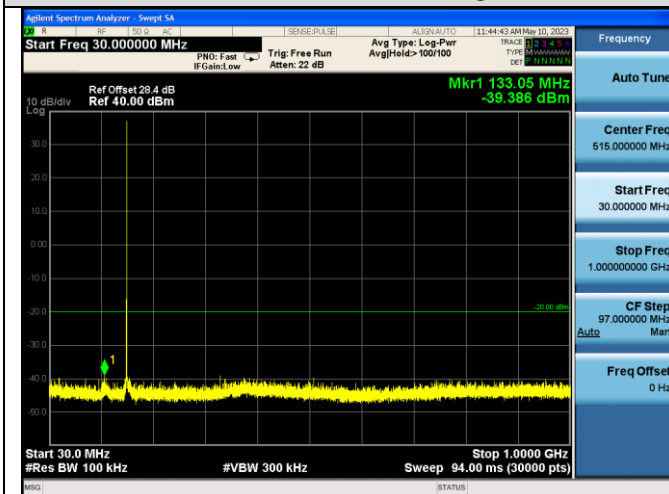
12.5kHz, Analog modulation, Assigned Frequency:136.025MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:155.7525MHz, 5W



12.5kHz, Analog modulation, Assigned Frequency:173.975MHz, 5W



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