
FCC Test Report

Report No.: AGC13459240402FR01

FCC ID : 2A300MB2

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : CB Radio

BRAND NAME : RETEVIS

MODEL NAME : MB2

APPLICANT : Shenzhen Ysair Technology Co., LTD

DATE OF ISSUE : Apr. 22, 2024

STANDARD(S) : FCC Part 95 Rules

REPORT VERSION : V 1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 22, 2024	Valid	Initial Release

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Table of Contents

1. General Information	5
2. Product Information	6
2.1 Product Technical Description	6
2.2 Test Frequency List.....	7
2.3 Related Submittal(S) / Grant (S).....	8
2.4 Test Methodology.....	8
2.5 Calculation of Emission Indicators.....	8
2.6 Statement - Compliance To §95.977	8
2.7 Special Accessories	9
2.8 Equipment Modifications.....	9
3. Test Environment	10
3.1 Address of The Test Laboratory.....	10
3.2 Test Facility	10
3.3 Environmental Conditions.....	11
3.4 Measurement Uncertainty.....	11
3.5 List of Equipment Used.....	12
4. System Test Configuration.....	14
4.1 EUT Configuration	14
4.2 EUT Exercise	14
4.3 Configuration of Tested System.....	14
4.4 Equipment Used in Tested System	14
4.5 Summary of Test Results	15
5. Description of Test Modes	16
6. Frequency Stability	17
6.1 Provisions Applicable	17
6.2 Measurement Procedure	17
6.3 Measurement Setup	17
6.4 Measurement Result.....	18
7. Emission Bandwidth	19
7.1 Provisions Applicable	19
7.2 Measurement Procedure	19
7.3 Measurement Setup	19
7.4 Measurement Results	20
8. Radiated Spurious Emission	22
8.1 Provisions Applicable	22
8.2 Measurement Procedure	22
8.3 Measurement Setup	23
8.4 Measurement Results	24
8.5 Emission Mask Plot	34
9. Spurious Emission on Antenna Port.....	36

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9.1 Provisions Applicable	36
9.2 Measurement Method	36
9.3 Measurement Setup	36
9.4 Measurement Results	37
10. Maximum Transmitter Power	41
10.1 Provisions Applicable	41
10.2 Measurement Method	41
10.3 Measurement Setup	41
10.4 Measurement Results	42
11.Modulation Characteristics	44
11.1 Provisions Applicable	44
11.2 Measurement Method_(Am)	44
11.3 Measurement Method_(Fm)	44
11.4 Measurement Setup.....	45
11.5 Measurement Results	46
Appendix I: Photographs of Test Setup.....	50
Appendix II: Photographs of Test EUT	50

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1. General Information

Applicant	Shenzhen Ysair Technology Co., LTD
Address	Room 403, 4th Floor, Building 4, Yunli intelligent Park, No. 3 Changfa Middle Road, Yangmei Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer	Shenzhen Ysair Technology Co., LTD
Address	Room 403, 4th Floor, Building 4, Yunli intelligent Park, No. 3 Changfa Middle Road, Yangmei Community, Bantian Street, Longgang District, Shenzhen, China
Factory	N/A
Address	N/A
Product Designation	CB Radio
Brand Name	RETEVIS
Test Model	MB2
Deviation from Standard	No any deviation from the test method
Date of receipt of test item	Apr. 02, 2024
Date of Test	Apr. 02, 2024~Apr. 22, 2024
Test Result	Pass

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

Prepared By



Bibo Zhang
(Project Engineer)

Apr. 22, 2024

Reviewed By



Calvin Liu
(Reviewer)

Apr. 22, 2024

Approved By



Max Zhang
Authorized Officer

Apr. 22, 2024

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2. Product Information

2.1 Product Technical Description

Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 13.8V
Communication Type	Voice / Tone only
Operation Frequency Range	26.965MHz-27.405MHz
Modulation Type	AM/FM
Channel Separation	10 KHz
Emission Designator	AM: 8K00A3E FM: 8K00F3E
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:35.98dBm FM:35.45dBm
Antenna Designation	Detachable
Antenna Type	External antenna
Antenna Gain	0dBi (Typical), 3dBi (Max)
Frequency Tolerance	AM:1.071ppm FM:1.081ppm

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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: **2A3OOMB2**, 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 (ChannelSpacing: 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 (ChannelSpacing: 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 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.

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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	DC12.0V	LV: DC 10.2V/HV:DC 13.8V

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	2023-06-01	2024-05-31
☒	AGC-EM-E002	Wireless Connectivity Tester	HP	8920B	US35010161	2023-06-02	2024-06-01
☒	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2024-02-01	2025-01-31
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2023-6-1	2024-5-31
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2022-08-03	2024-08-02
☒	AGC-EM-A007	30dB Attenuator	Weinachel	58-30-33	ML030	2023-06-01	2024-05-31
☒	AGC-EM-E040	Directional coupler	Werlatone	C5571-10	99463	2024-02-01	2026-01-31
☒	--	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	2024-02-01	2025-01-31
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
☒	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2023-07-05	2024-07-04
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2023-01-05	2025-01-04
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2023-06-03	2024-06-02
☐	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
☐	AGC-EM-E021	Pre-amplifier	MITEQ	AM-4A-000115	1465421	2022-06-08	2024-06-07
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2023-06-01	2024-05-31
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
☒	AGC-EM-A088	UHF Filter	Microwave	N25155M2	498705	2023-06-01	2024-05-31
☐	AGC-EM-A089	VHF Filter	Microwave	N26460M1	498703	2023-06-01	2024-05-31
☐	AGC-EM-E110	Low Pass Filter	N/A	N/A	N/A	2023-06-01	2024-05-31

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S004	RE Test System	Tonscend	TS ⁺ Ver2.1(JS32-RE)	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

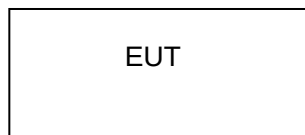


Table 2-1 Equipment Used in Tested System

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	Shenzhen Ysair Technology Co., LTD	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	§ 95.967& 2.1046(a)	Maximum Transmitter Power	Pass
2	§95.975& 2.1047(a) (b)	Modulation Limit	Pass
3	§95.975& 2.1047(a)	Audio Frequency Response	Pass
4	§95.973& 2.1049	Emission Bandwidth	Pass
5	§95.979& 2.1049	Emission Mask	Pass
6	§95.965& 2.1055(a) (1)	Frequency Stability	Pass
7	§95.979& 2.1051	Spurious Emission on Antenna Port	Pass
8	§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 TX CHANNEL 1	10.0 kHz
2	CBRS TX CHANNEL 20	10.0 kHz
3	CBRS 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. Frequency Stability

6.1 Provisions Applicable

Each CBRs transmitter type must be designed such that the transmit carrier frequency (or in the case of SSB transmissions, the reference frequency) remains within 50 parts-per- million of the channel center frequencies specified in §95.963 under all normal operating conditions.

6.2 Measurement Procedure

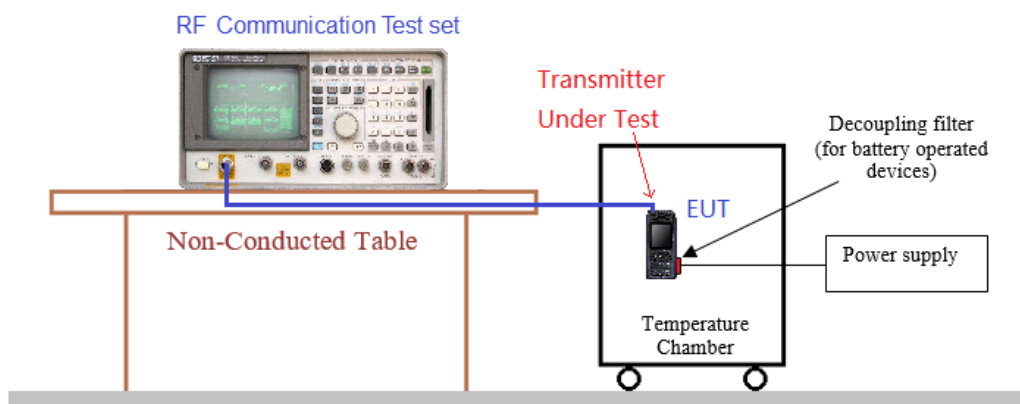
6.2.1 Frequency stability versus environmental temperature

1. Setup the configuration per figure 1 for frequencies measurement inside an environment chamber, Install new battery in the EUT.
2. 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.
3. 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.
4. 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

1. 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 13.8V.
2. 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.
3. Supply the EUT primary voltage at the operating end point which is specified by manufacturer and record the frequency.

6.3 Measurement Setup



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6.4 Measurement Result

10 kHz Channel Separation, AM modulation, Assigned Frequency For CBRS						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		26.965MHz	27.185MHz	27.405MHz		
13.8	-30	0.375	0.653	0.599	50	Pass
	-20	0.682	0.653	0.655		
	-10	0.988	0.553	0.794		
	0	0.853	0.858	0.676		
	10	0.523	1.029	0.910		
	20	1.071	0.914	0.808		
	30	1.069	0.741	0.908		
	40	0.937	1.084	0.987		
	50	1.049	1.086	0.772		
15.87	20	0.770	0.600	0.729		
11.73	20	0.761	0.612	0.675		

10 kHz Channel Separation, FM modulation, Assigned Frequency For CBRS						
Test conditions		Frequency error (ppm)			Limit (ppm)	Result
Voltage (V)	Temp (°C)	Test Frequency (MHz)				
		26.965MHz	27.185MHz	27.405MHz		
13.8	-30	1.041	0.731	0.753	50	Pass
	-20	0.758	1.022	0.504		
	-10	0.600	0.945	0.601		
	0	0.965	0.641	0.552		
	10	1.054	0.609	0.521		
	20	1.018	0.987	0.736		
	30	0.695	1.014	0.925		
	40	0.780	0.900	0.705		
	50	0.852	0.520	1.081		
15.87	20	0.526	0.690	0.973		
11.73	20	0.644	0.617	0.623		

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7. Emission Bandwidth

7.1 Provisions Applicable

FCC Part 95.973, FCC Part 2.1049

Each CBRS transmitter type must be designed such that the occupied bandwidth does not exceed the authorized bandwidth for the emission type under test.

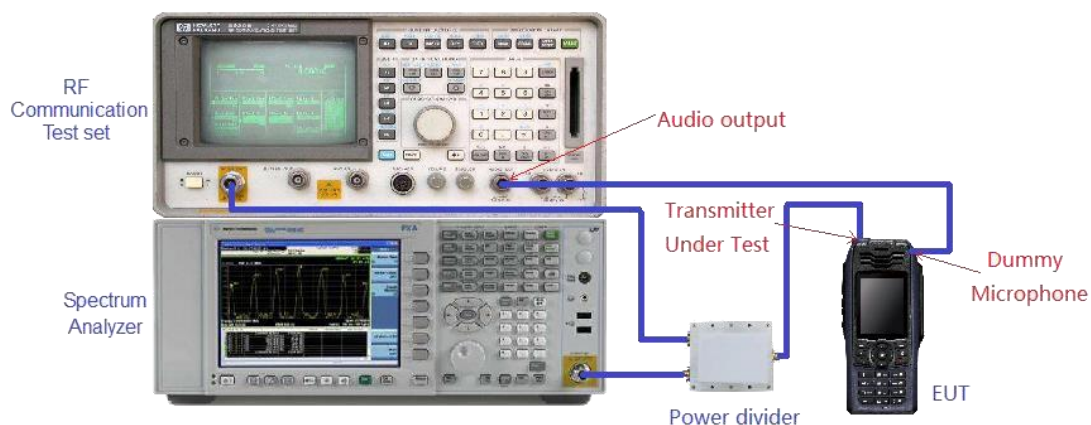
(a) AM and FM. The authorized bandwidth for emission type A3E and F3E is 8 kHz.

(b)SSB.The authorized bandwidth for emission types J3E, R3E, and H3E is 4 kHz.

7.2 Measurement Procedure

1. Connect the equipment as illustrated
2. 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).
3. Spectrum set as follow:
Centre frequency = the nominal EUT channel center frequency,
The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient)
 $\text{RBW} = 1\% \text{ to } 5\% \text{ of the anticipated OBW}$, $\text{VBW} \geq 3 \times \text{RBW}$, Sweep = auto, Detector function = peak,
Trace = max hold
4. Set 99% Occupied Bandwidth and 26dB Bandwidth
5. Measure and record the results in the test report.

7.3 Measurement Setup



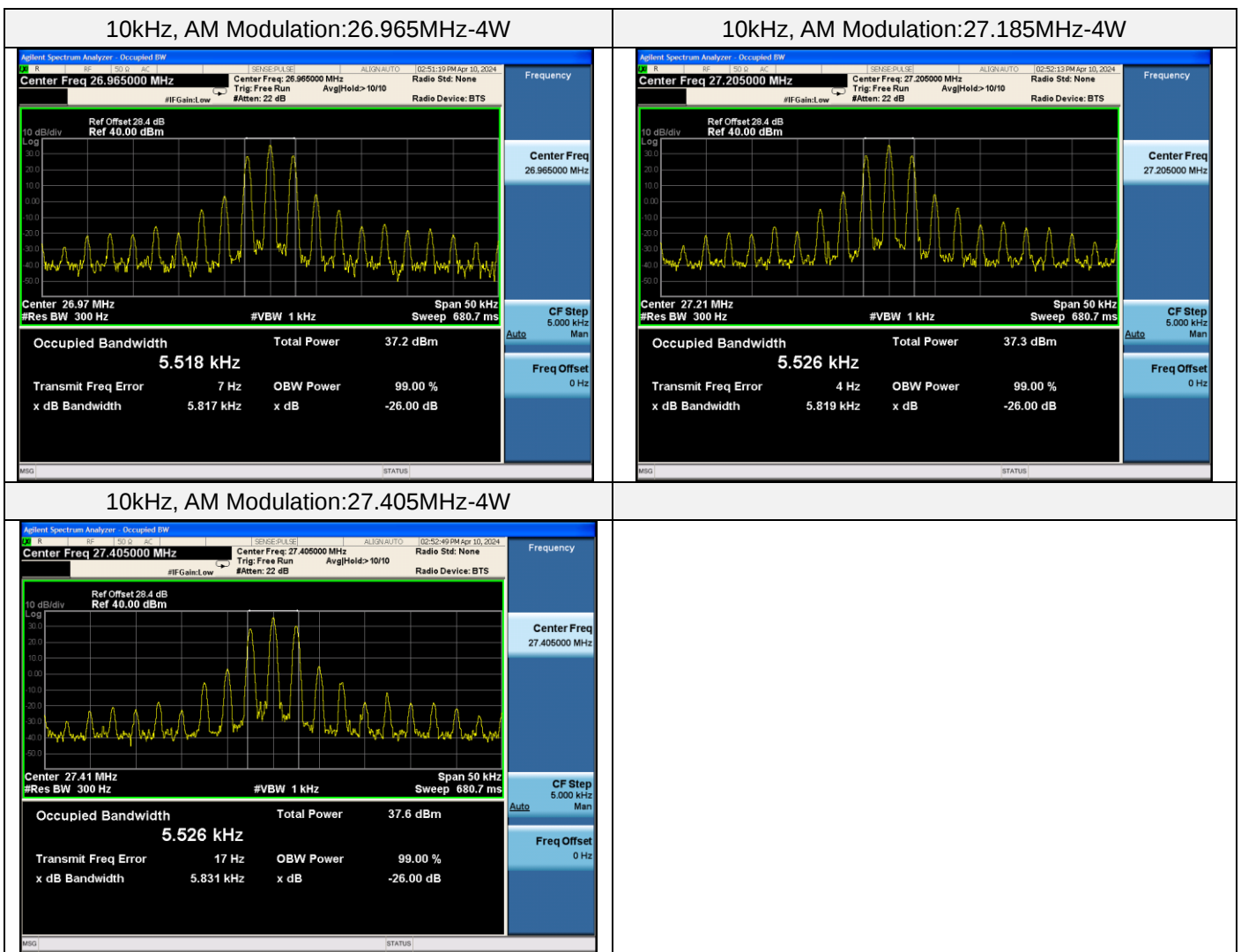
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7.4 Measurement Results

Emission Bandwidth Measurement Result-CBRS				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.518 kHz	5.817 kHz	8.0 kHz	Pass
27.205 MHz	5.526 kHz	5.819 kHz	8.0 kHz	Pass
27.405 MHz	5.526 kHz	5.831 kHz	8.0 kHz	Pass

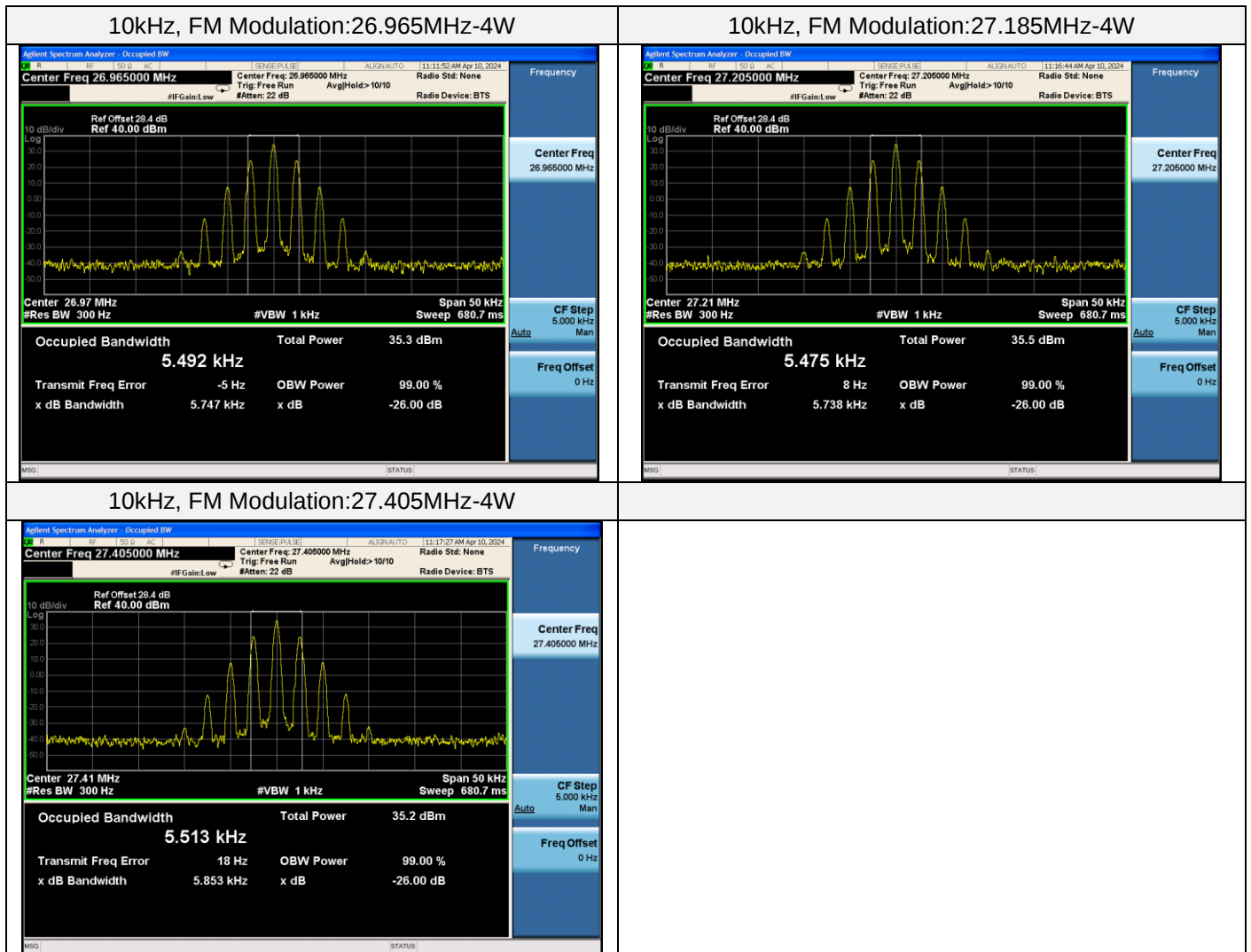
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.492 kHz	5.747 kHz	8.0 kHz	Pass
27.205 MHz	5.475 kHz	5.738 kHz	8.0 kHz	Pass
27.405 MHz	5.513 kHz	5.853 kHz	8.0 kHz	Pass

Test plot as follows:



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8. Radiated Spurious Emission

8.1 Provisions Applicable

FCC Part 95.979(a), FCC Part 2.1049

Each CBRS transmitter type must be designed to comply with the applicable unwanted emissions limits in this section. The power of unwanted emissions must be attenuated below the transmitter output power in Watts (P) as specified in the applicable paragraphs listed in the following table:

Emission type	Paragraph
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.

8.2 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 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

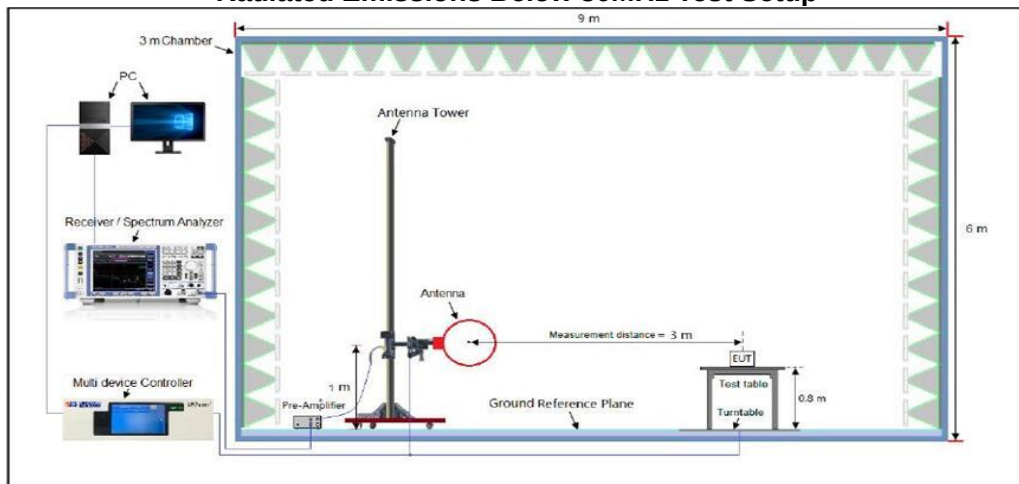
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substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

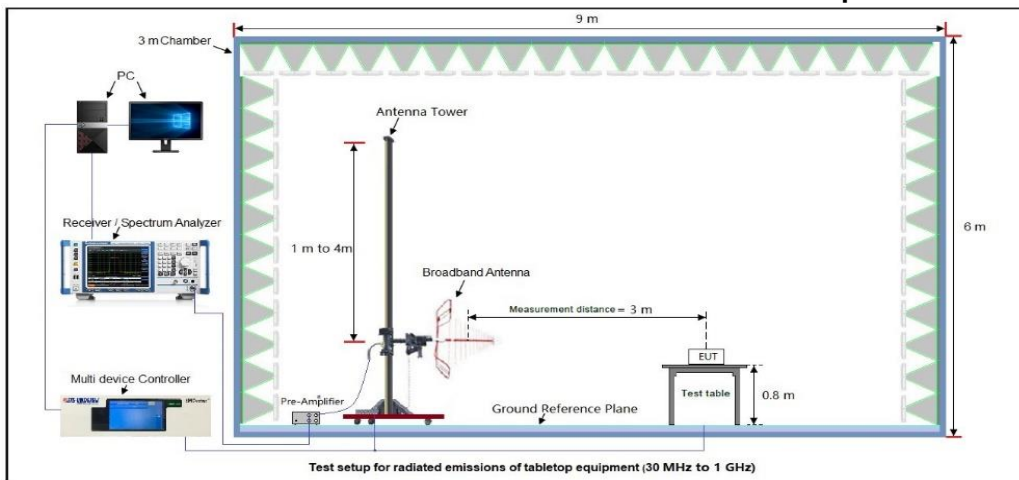
5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test
6. The measurement results are obtained 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

Radiated Emissions Below 30MHz Test Setup

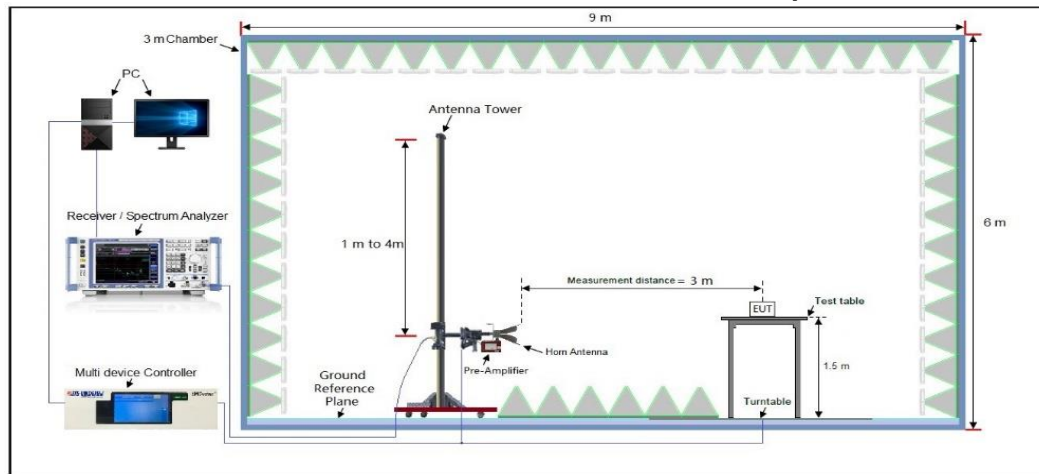


Radiated Emissions Below 30MHz-1GHz Test Setup



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Radiated Emissions Above 1GHz Test Setup



8.4 Measurement Results

Unwanted Emission Limit = $P(\text{dBm}) - 53 - 10 \log(P_{\text{watts}}) = -23 \text{ dBm}$

Harmonic Emission Limit = Measured Power (dBm) -60

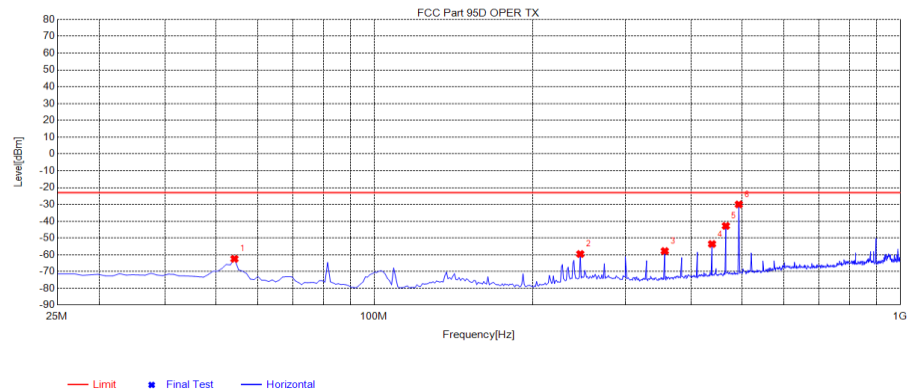
1. Factor=Antenna Factor + Cable loss. (Below 1GHz)
2. Factor=Antenna Factor+ Cable loss -Pre-amplifier. (Above 1 GHz)
3. Margin=Limit- Level
4. the unwanted emission should be attenuated below TP by at least 60 dB.
5. In the frequency range of 9KHz-30MHz, in addition to displaying the Fundamental level,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

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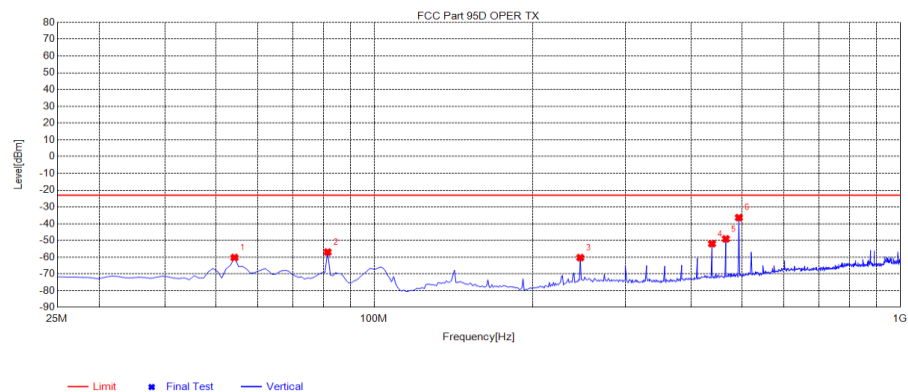
Unwanted Emission

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	54.25	-90.11	-62.41	-23.00	39.41	27.70	127	Horizontal
2	246.325	-87.82	-59.53	-23.00	36.53	28.29	67	Horizontal
3	356.5	-86.28	-57.78	-23.00	34.78	28.50	127	Horizontal
4	438.4	-84.27	-53.58	-23.00	30.58	30.69	196	Horizontal
5	465.7	-74.10	-42.83	-23.00	19.83	31.27	239	Horizontal
6	493	-61.73	-30.00	-23.00	7.00	31.73	230	Horizontal

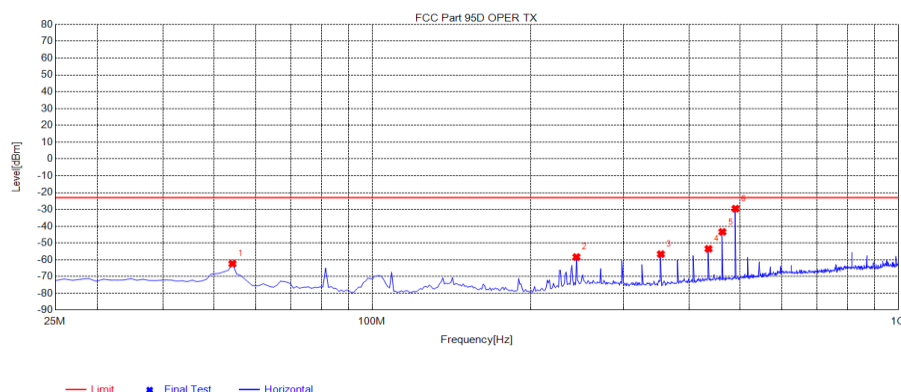
Test Mode:	TX-CH1-AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-87.92	-60.22	-23.00	37.22	27.70	35	Vertical
2	81.55	-80.92	-56.93	-23.00	33.93	23.99	173	Vertical
3	246.325	-88.54	-60.25	-23.00	37.25	28.29	164	Vertical
4	438.4	-82.63	-51.94	-23.00	28.94	30.69	199	Vertical
5	465.7	-80.34	-49.07	-23.00	26.07	31.27	259	Vertical
6	493	-68.13	-36.40	-23.00	13.40	31.73	293	Vertical

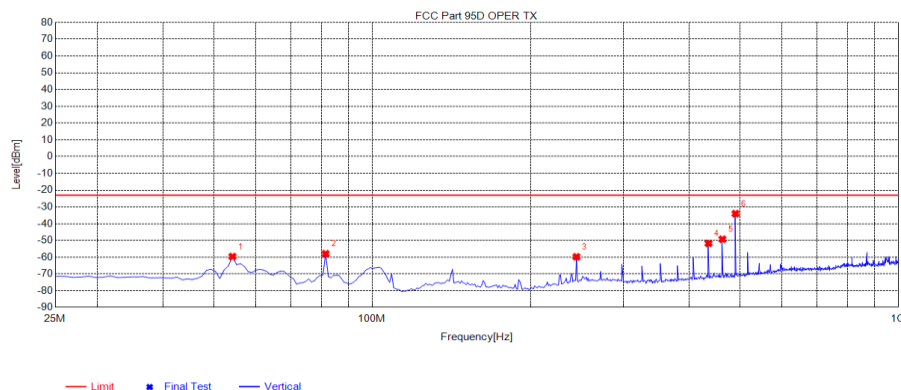
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Test Mode:	TX-CH20-AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-90.04	-62.34	-23.00	39.34	27.70	121	Horizontal
2	244.375	-86.45	-58.37	-23.00	35.37	28.08	51	Horizontal
3	353.575	-85.06	-56.63	-23.00	33.63	28.43	131	Horizontal
4	435.475	-84.08	-53.47	-23.00	30.47	30.61	200	Horizontal
5	462.775	-74.60	-43.38	-23.00	20.38	31.22	237	Horizontal
6	490.075	-61.26	-29.58	-23.00	6.58	31.68	237	Horizontal

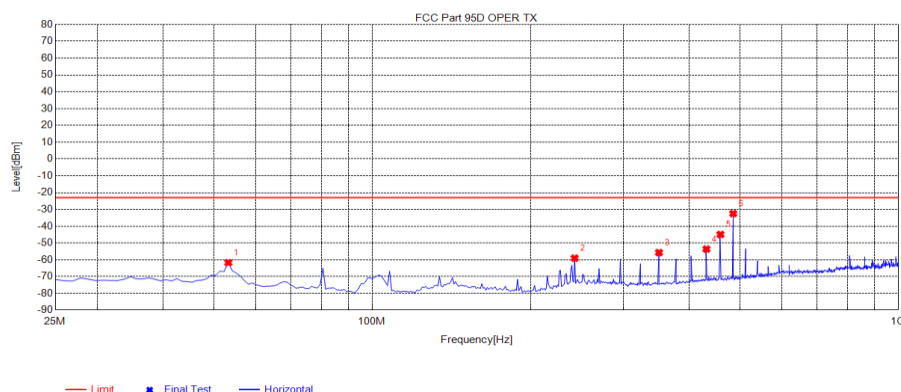
Test Mode:	TX-CH20-AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-87.33	-59.63	-23.00	36.63	27.70	1	Vertical
2	81.55	-81.91	-57.92	-23.00	34.92	23.99	217	Vertical
3	244.375	-87.83	-59.75	-23.00	36.75	28.08	174	Vertical
4	435.475	-82.36	-51.75	-23.00	28.75	30.61	208	Vertical
5	462.775	-80.48	-49.26	-23.00	26.26	31.22	260	Vertical
6	490.075	-65.70	-34.02	-23.00	11.02	31.68	268	Vertical

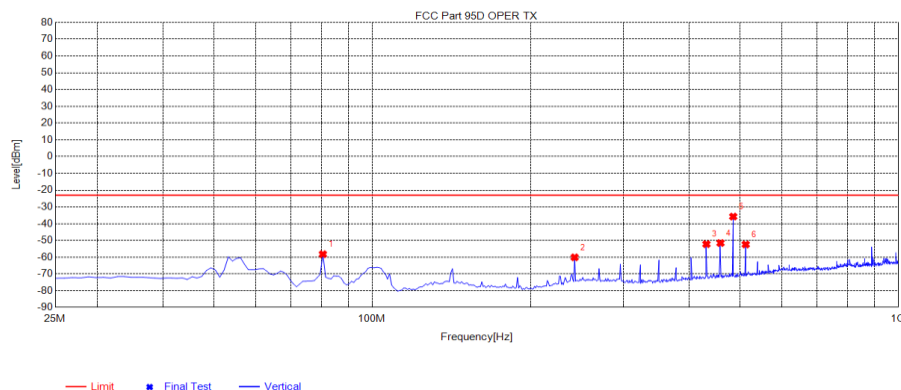
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Test Mode:	TX-CH40-AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-89.64	-61.71	-23.00	38.71	27.93	101	Horizontal
2	242.425	-86.91	-59.04	-23.00	36.04	27.87	49	Horizontal
3	350.65	-84.08	-55.73	-23.00	32.73	28.35	130	Horizontal
4	431.575	-84.14	-53.63	-23.00	30.63	30.51	200	Horizontal
5	458.875	-76.07	-44.92	-23.00	21.92	31.15	235	Horizontal
6	485.2	-64.09	-32.49	-23.00	9.49	31.60	253	Horizontal

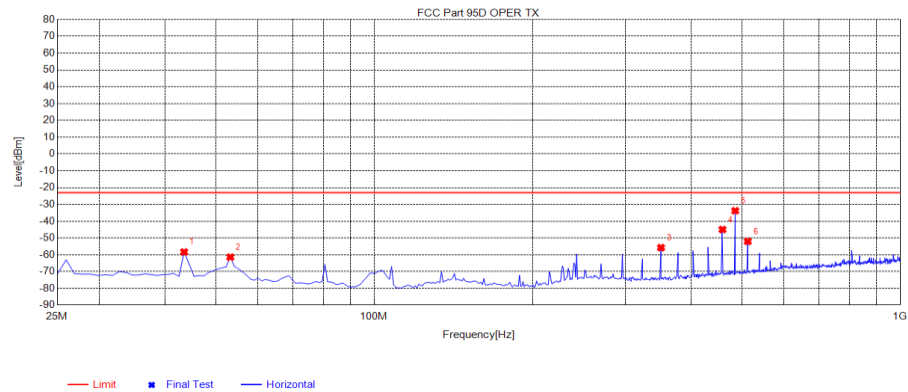
Test Mode:	TX-CH40-AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	80.575	-82.39	-58.20	-23.00	35.20	24.19	286	Vertical
2	242.425	-87.95	-60.08	-23.00	37.08	27.87	182	Vertical
3	431.575	-82.71	-52.20	-23.00	29.20	30.51	217	Vertical
4	458.875	-82.68	-51.53	-23.00	28.53	31.15	260	Vertical
5	485.2	-67.36	-35.76	-23.00	12.76	31.60	260	Vertical
6	512.5	-84.48	-52.39	-23.00	29.39	32.09	199	Vertical

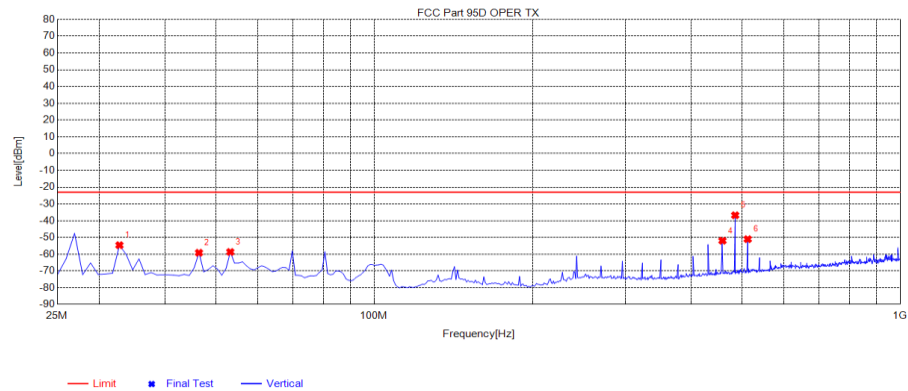
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Test Mode:	TX-CH1-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	43.525	-87.54	-58.35	-23.00	35.35	29.19	46	Horizontal
2	53.275	-89.31	-61.38	-23.00	38.38	27.93	106	Horizontal
3	350.65	-84.10	-55.75	-23.00	32.75	28.35	123	Horizontal
4	458.875	-76.13	-44.98	-23.00	21.98	31.15	254	Horizontal
5	485.2	-65.39	-33.79	-23.00	10.79	31.60	245	Horizontal
6	512.5	-84.10	-52.01	-23.00	29.01	32.09	236	Horizontal

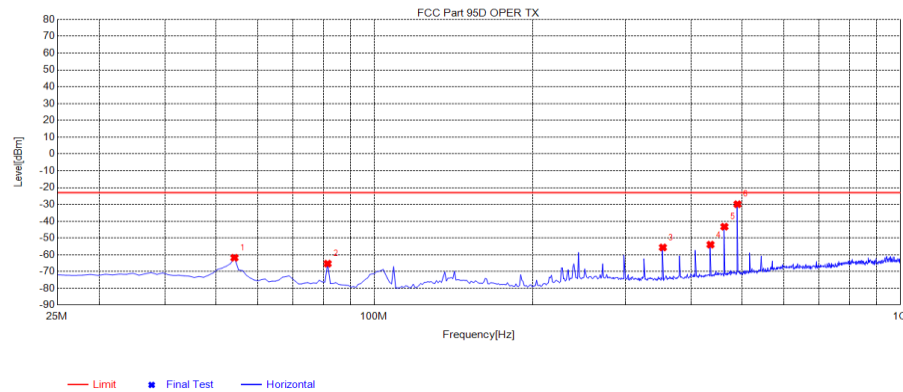
Test Mode:	TX-CH1-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	32.8	-83.78	-54.62	-23.00	31.62	29.16	360	Vertical
2	46.45	-88.08	-59.12	-23.00	36.12	28.96	312	Vertical
3	53.275	-86.60	-58.67	-23.00	35.67	27.93	338	Vertical
4	458.875	-83.10	-51.95	-23.00	28.95	31.15	260	Vertical
5	485.2	-68.37	-36.77	-23.00	13.77	31.60	260	Vertical
6	512.5	-83.11	-51.02	-23.00	28.02	32.09	200	Vertical

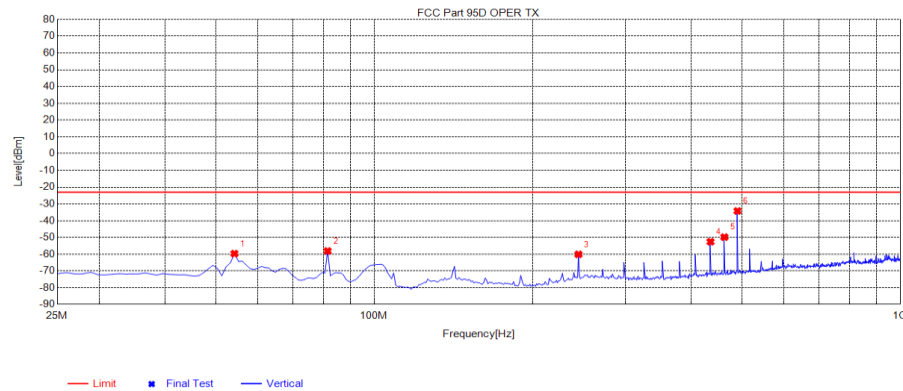
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Test Mode:	TX-CH20-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.46	-61.76	-23.00	38.76	27.70	134	Horizontal
2	81.55	-89.25	-65.26	-23.00	42.26	23.99	308	Horizontal
3	353.575	-84.06	-55.63	-23.00	32.63	28.43	134	Horizontal
4	435.475	-84.57	-53.96	-23.00	30.96	30.61	195	Horizontal
5	462.775	-74.51	-43.29	-23.00	20.29	31.22	238	Horizontal
6	490.075	-61.57	-29.89	-23.00	6.89	31.68	238	Horizontal

Test Mode:	TX-CH20-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-87.35	-59.65	-23.00	36.65	27.70	347	Vertical
2	81.55	-82.05	-58.06	-23.00	35.06	23.99	217	Vertical
3	244.375	-88.15	-60.07	-23.00	37.07	28.08	165	Vertical
4	435.475	-83.17	-52.56	-23.00	29.56	30.61	200	Vertical
5	462.775	-81.03	-49.81	-23.00	26.81	31.22	269	Vertical
6	490.075	-65.90	-34.22	-23.00	11.22	31.68	278	Vertical

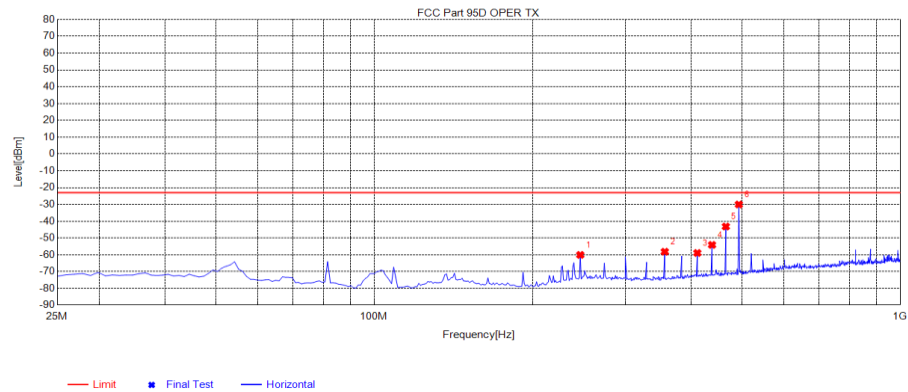
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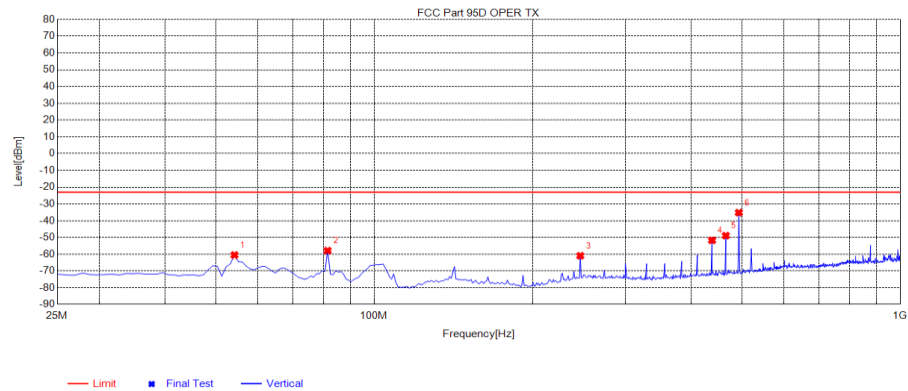
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Test Mode:	TX-CH40-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	246.325	-88.35	-60.06	-23.00	37.06	28.29	1	Horizontal
2	356.5	-86.67	-58.17	-23.00	35.17	28.50	132	Horizontal
3	411.1	-88.87	-58.91	-23.00	35.91	29.96	211	Horizontal
4	438.4	-84.80	-54.11	-23.00	31.11	30.69	194	Horizontal
5	465.7	-74.45	-43.18	-23.00	20.18	31.27	246	Horizontal
6	493	-61.77	-30.04	-23.00	7.04	31.73	237	Horizontal

Test Mode:	TX-CH40-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-88.21	-60.51	-23.00	37.51	27.70	344	Vertical
2	81.55	-81.85	-57.86	-23.00	34.86	23.99	230	Vertical
3	246.325	-89.22	-60.93	-23.00	37.93	28.29	168	Vertical
4	438.4	-82.40	-51.71	-23.00	28.71	30.69	203	Vertical
5	465.7	-80.21	-48.94	-23.00	25.94	31.27	265	Vertical
6	493	-66.94	-35.21	-23.00	12.21	31.73	299	Vertical

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Harmonic Emission

Test Mode:		TX-CH1-AM				Polarity:		Horizontal	
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity	
1	54.25	-90.11	-62.41	-24.04	38.37	27.70	127	Horizontal	
2	246.325	-87.82	-59.53	-24.04	35.49	28.29	67	Horizontal	
3	356.5	-86.28	-57.78	-24.04	33.74	28.50	127	Horizontal	
4	438.4	-84.27	-53.58	-24.04	29.54	30.69	196	Horizontal	
5	465.7	-74.10	-42.83	-24.04	18.79	31.27	239	Horizontal	
6	493	-61.73	-30.00	-24.04	5.96	31.73	230	Horizontal	

Test Mode:		TX-CH1-AM				Polarity:		Vertical	
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity	
1	54.25	-87.92	-60.22	-24.04	36.18	27.70	35	Vertical	
2	81.55	-80.92	-56.93	-24.04	32.89	23.99	173	Vertical	
3	246.325	-88.54	-60.25	-24.04	36.21	28.29	164	Vertical	
4	438.4	-82.63	-51.94	-24.04	27.9	30.69	199	Vertical	
5	465.7	-80.34	-49.07	-24.04	25.03	31.27	259	Vertical	
6	493	-68.13	-36.40	-24.04	12.36	31.73	293	Vertical	

Test Mode:		TX-CH20-AM				Polarity:		Horizontal	
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity	
1	54.25	-90.04	-62.34	-24.02	38.32	27.70	121	Horizontal	
2	244.375	-86.45	-58.37	-24.02	34.35	28.08	51	Horizontal	
3	353.575	-85.06	-56.63	-24.02	32.61	28.43	131	Horizontal	
4	435.475	-84.08	-53.47	-24.02	29.45	30.61	200	Horizontal	
5	462.775	-74.60	-43.38	-24.02	19.36	31.22	237	Horizontal	
6	490.075	-61.26	-29.58	-24.02	5.56	31.68	237	Horizontal	

Test Mode:		TX-CH20-AM				Polarity:		Vertical	
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity	
1	54.25	-87.33	-59.63	-24.02	35.61	27.70	1	Vertical	
2	81.55	-81.91	-57.92	-24.02	33.9	23.99	217	Vertical	
3	244.375	-87.83	-59.75	-24.02	35.73	28.08	174	Vertical	
4	435.475	-82.36	-51.75	-24.02	27.73	30.61	208	Vertical	
5	462.775	-80.48	-49.26	-24.02	25.24	31.22	260	Vertical	
6	490.075	-65.70	-34.02	-24.02	10.00	31.68	268	Vertical	

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Test Mode:	TX-CH40-AM				Polarity:	Horizontal		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-89.64	-61.71	-24.24	37.47	27.93	101	Horizontal
2	242.425	-86.91	-59.04	-24.24	34.8	27.87	49	Horizontal
3	350.65	-84.08	-55.73	-24.24	31.49	28.35	130	Horizontal
4	431.575	-84.14	-53.63	-24.24	29.39	30.51	200	Horizontal
5	458.875	-76.07	-44.92	-24.24	20.68	31.15	235	Horizontal
6	485.2	-64.09	-32.49	-24.24	8.25	31.60	253	Horizontal

Test Mode:	TX-CH40-AM				Polarity:	Vertical		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	80.575	-82.39	-58.20	-24.24	33.96	24.19	286	Vertical
2	242.425	-87.95	-60.08	-24.24	35.84	27.87	182	Vertical
3	431.575	-82.71	-52.20	-24.24	27.96	30.51	217	Vertical
4	458.875	-82.68	-51.53	-24.24	27.29	31.15	260	Vertical
5	485.2	-67.36	-35.76	-24.24	11.52	31.60	260	Vertical
6	512.5	-84.48	-52.39	-24.24	28.15	32.09	199	Vertical

Test Mode:	TX-CH1-FM				Polarity:	Horizontal		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	43.525	-87.54	-58.35	-24.55	33.80	29.19	46	Horizontal
2	53.275	-89.31	-61.38	-24.55	36.83	27.93	106	Horizontal
3	350.65	-84.10	-55.75	-24.55	31.20	28.35	123	Horizontal
4	458.875	-76.13	-44.98	-24.55	20.43	31.15	254	Horizontal
5	485.2	-65.39	-33.79	-24.55	9.24	31.60	245	Horizontal
6	512.5	-84.10	-52.01	-24.55	27.46	32.09	236	Horizontal

Test Mode:	TX-CH1-FM				Polarity:	Vertical		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	32.8	-83.78	-54.62	-24.55	30.07	29.16	360	Vertical
2	46.45	-88.08	-59.12	-24.55	34.57	28.96	312	Vertical
3	53.275	-86.60	-58.67	-24.55	34.12	27.93	338	Vertical
4	458.875	-83.10	-51.95	-24.55	27.4	31.15	260	Vertical
5	485.2	-68.37	-36.77	-24.55	12.22	31.60	260	Vertical
6	512.5	-83.11	-51.02	-24.55	26.47	32.09	200	Vertical

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Test Mode:	TX-CH20-FM				Polarity:	Horizontal		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.46	-61.76	-24.56	37.20	27.70	134	Horizontal
2	81.55	-89.25	-65.26	-24.56	40.70	23.99	308	Horizontal
3	353.575	-84.06	-55.63	-24.56	31.07	28.43	134	Horizontal
4	435.475	-84.57	-53.96	-24.56	29.4	30.61	195	Horizontal
5	462.775	-74.51	-43.29	-24.56	18.73	31.22	238	Horizontal
6	490.075	-61.57	-29.89	-24.56	5.33	31.68	238	Horizontal

Test Mode:	TX-CH20-FM				Polarity:	Vertical		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-87.35	-59.65	-24.56	35.09	27.70	347	Vertical
2	81.55	-82.05	-58.06	-24.56	33.5	23.99	217	Vertical
3	244.375	-88.15	-60.07	-24.56	35.51	28.08	165	Vertical
4	435.475	-83.17	-52.56	-24.56	28.00	30.61	200	Vertical
5	462.775	-81.03	-49.81	-24.56	25.25	31.22	269	Vertical
6	490.075	-65.90	-34.22	-24.56	9.66	31.68	278	Vertical

Test Mode:	TX-CH40-FM				Polarity:	Horizontal		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	246.325	-88.35	-60.06	-24.59	35.47	28.29	1	Horizontal
2	356.5	-86.67	-58.17	-24.59	33.58	28.50	132	Horizontal
3	411.1	-88.87	-58.91	-24.59	34.32	29.96	211	Horizontal
4	438.4	-84.80	-54.11	-24.59	29.52	30.69	194	Horizontal
5	465.7	-74.45	-43.18	-24.59	18.59	31.27	246	Horizontal
6	493	-61.77	-30.04	-24.59	5.45	31.73	237	Horizontal

Test Mode:	TX-CH40-FM				Polarity:	Vertical		
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-88.21	-60.51	-24.59	35.92	27.70	344	Vertical
2	81.55	-81.85	-57.86	-24.59	33.27	23.99	230	Vertical
3	246.325	-89.22	-60.93	-24.59	36.34	28.29	168	Vertical
4	438.4	-82.40	-51.71	-24.59	27.12	30.69	203	Vertical
5	465.7	-80.21	-48.94	-24.59	24.35	31.27	265	Vertical
6	493	-66.94	-35.21	-24.59	10.62	31.73	299	Vertical

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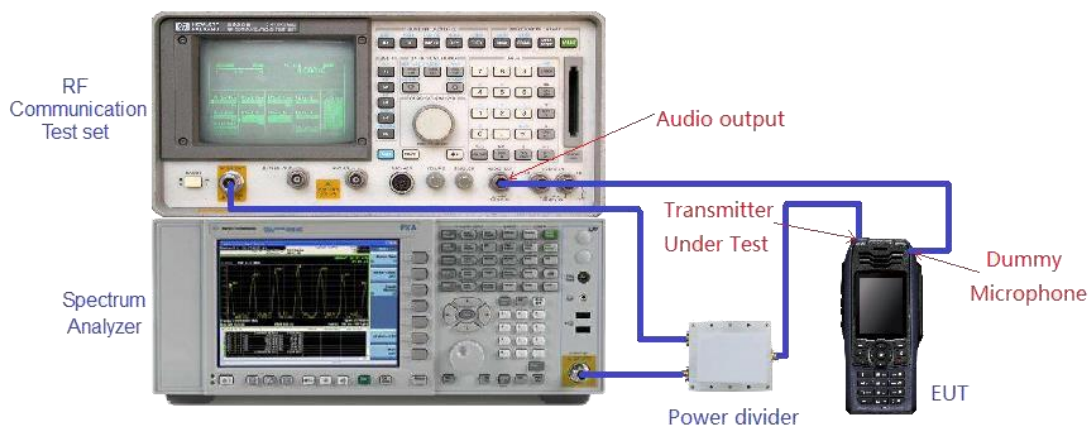
8.5 Emission Mask Plot

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

-Connect the equipment as illustrated.

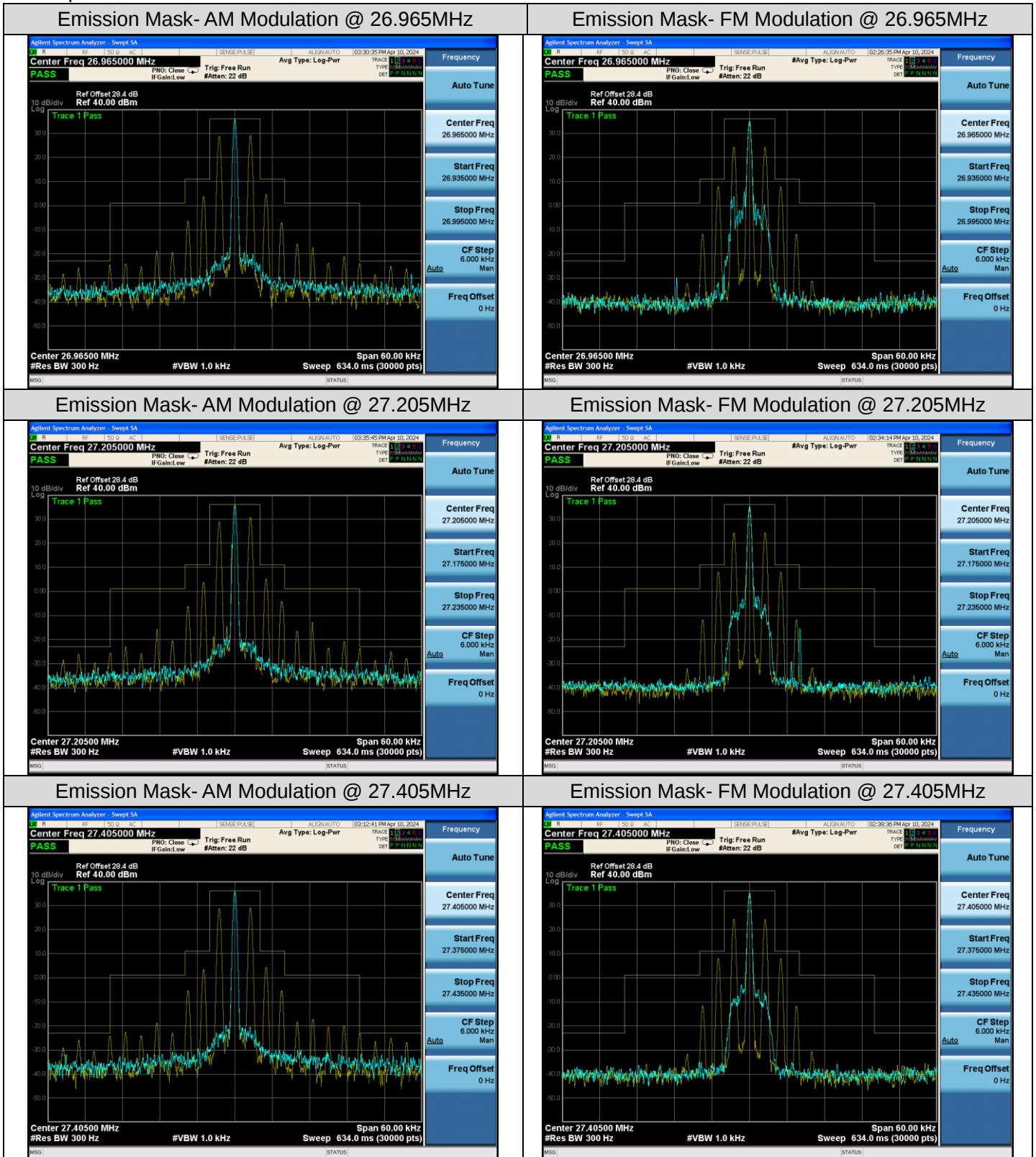
-Spectrum set as follow:

1. Centre frequency = fundamental frequency, Span=60kHz for 10kHz , RBW=300Hz, VBW=1000Hz ;
2. Sweep = auto, Detector function = peak, Trace = max hold
3. Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0dB reference for the measurement.
4. 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
The input level shall be established at the frequency of maximum response of the audio modulating circuit.
5. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
6. Measure and record the results in the test report.



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Test plot as follows:



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9. Spurious Emission on Antenna Port

9.1 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.

$53 + 10 \log (P_{\text{watts}})$

Calculation: Limit (dBm) = EL - 53 - 10 log₁₀ (TP)

Notes: EL is the emission level of the Output Power expressed in dBm,
In this application, the EL is P (dBm).

Limit (dBm) = P (dBm) - 53 - 10 log (Pwatts) = -23 dBm

Note:

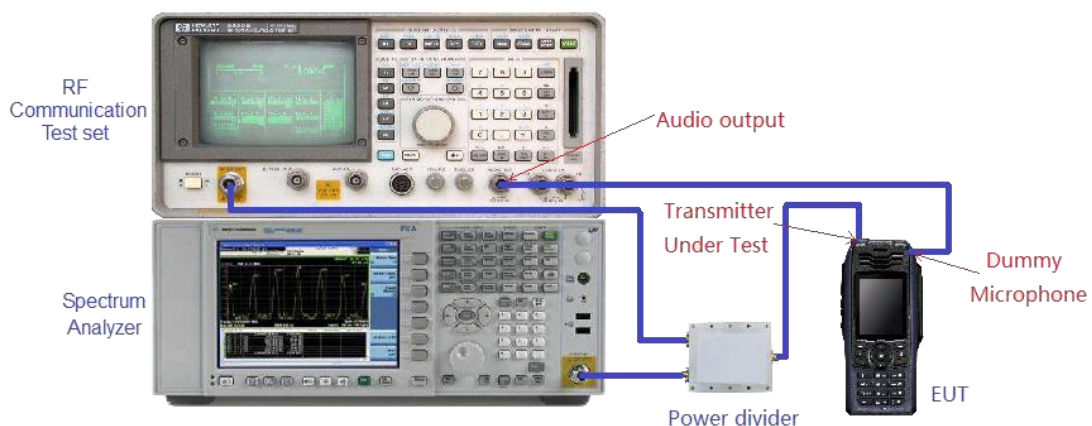
Unwanted Emission Limit = P (dBm) - 53 - 10 Log (Pwatts) = -23 dBm

Harmonic Emission Limit = Measured Power (dBm) - 60

9.2 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
3. show any out of band emission up to 10th . Harmonic for the lower and the highest frequency range.
4. Set RBW 1 kHz, VBW 3 kHz in the frequency band 9KHz to 150KHz;
Set RBW 10 kHz, VBW 30 kHz in the frequency band 150KHz to 20MHz;
Set RBW 100 kHz, VBW 300 kHz in the frequency band 20MHz to 1GHz;
While set RBW=1MHz.VBW=3MHz from the 1GHz to 10th Harmonic.
5. The audio input was set the unmodulated carrier, the resulting picture is print out for each channel separation.

9.3 Measurement Setup



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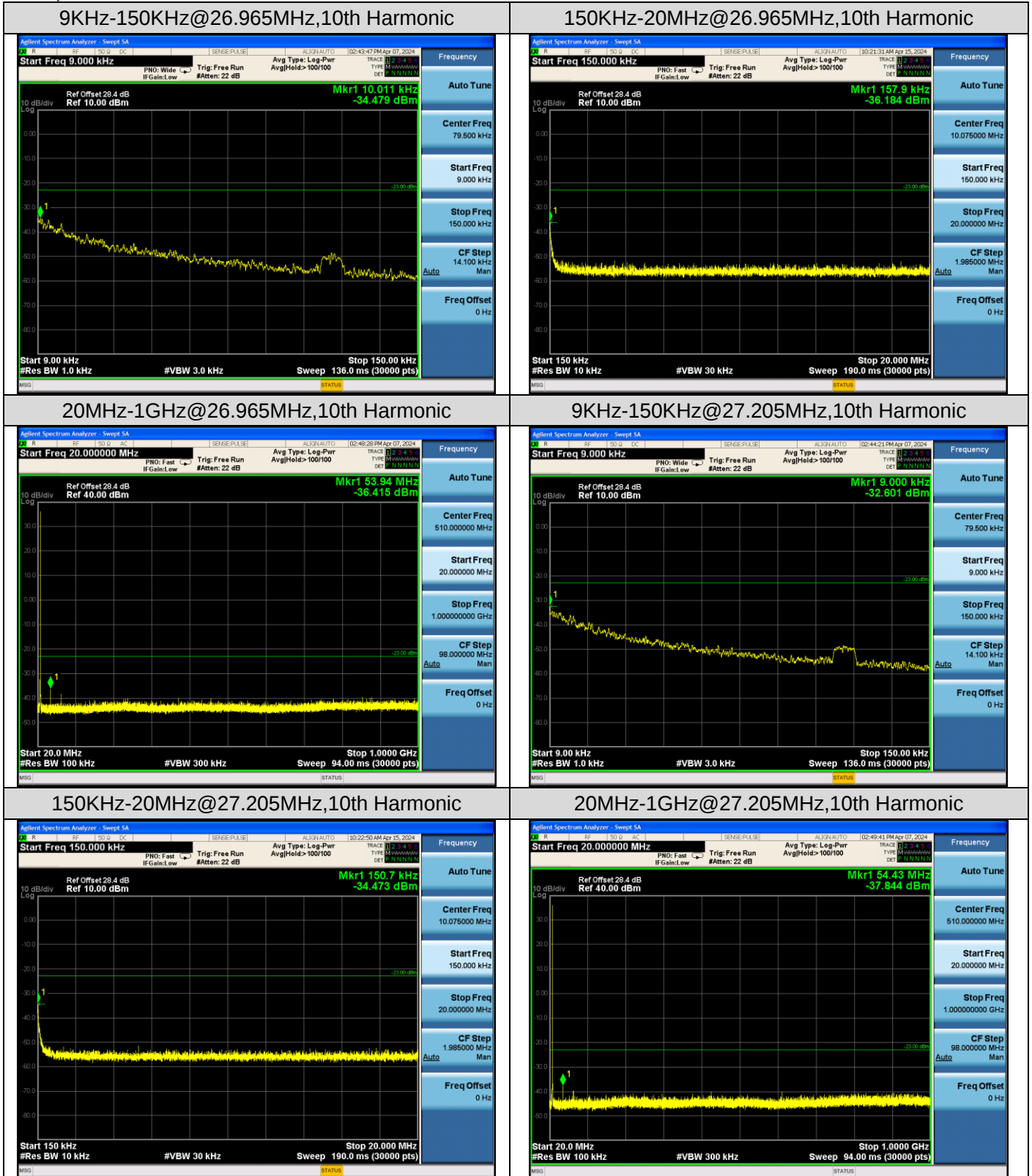
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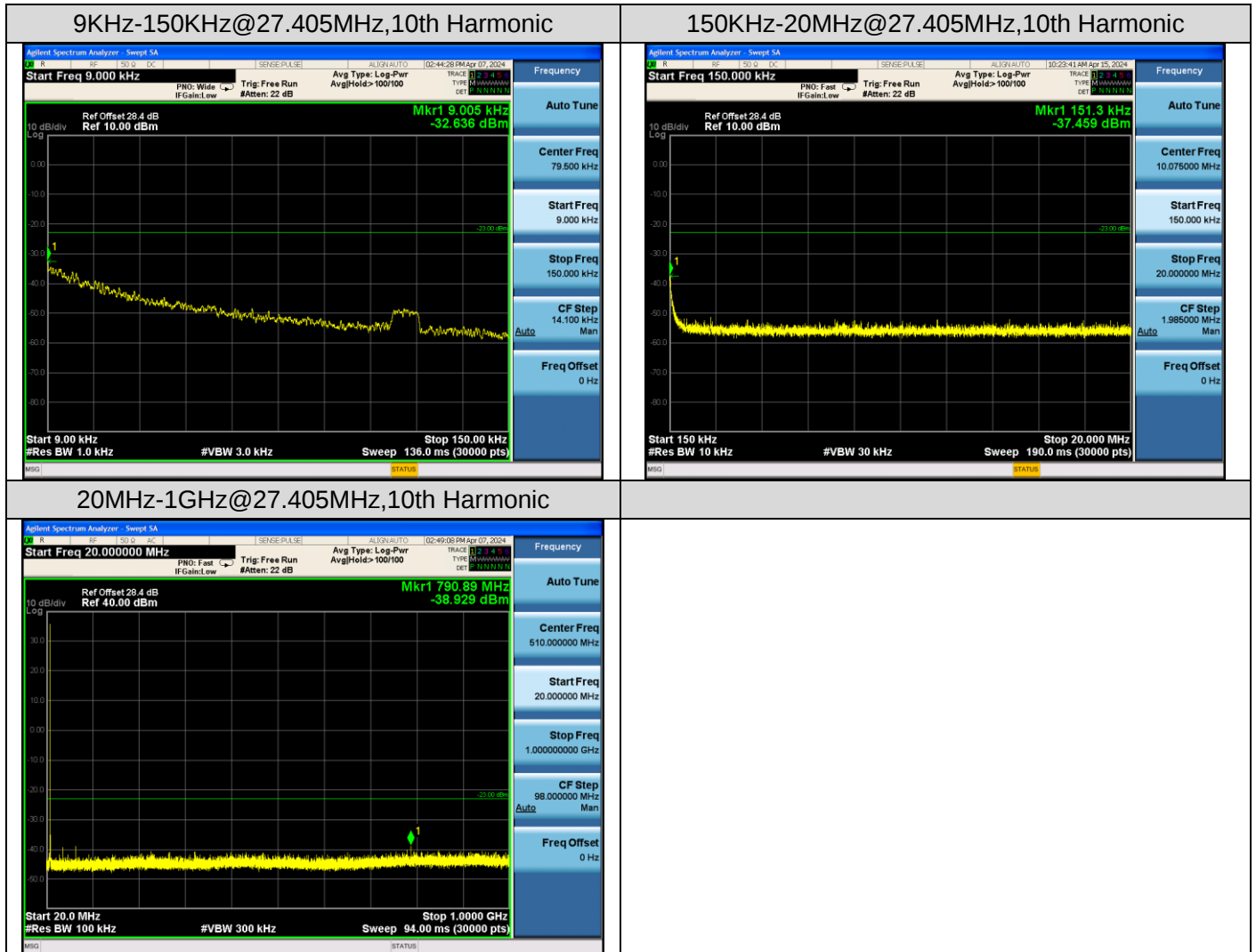
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9.4 Measurement Results

Test plot as follows: Unwanted Emission: AM Modulation

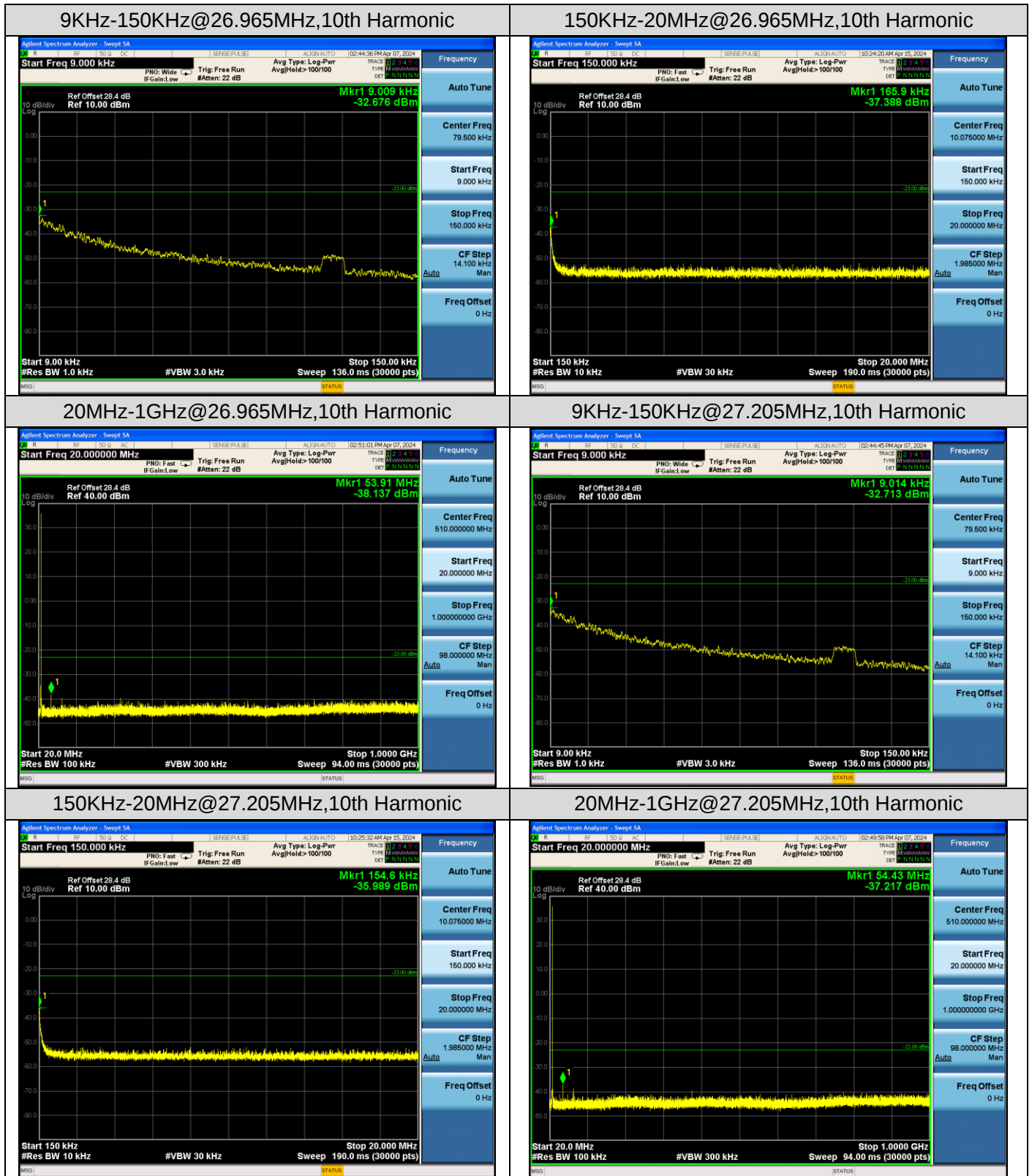


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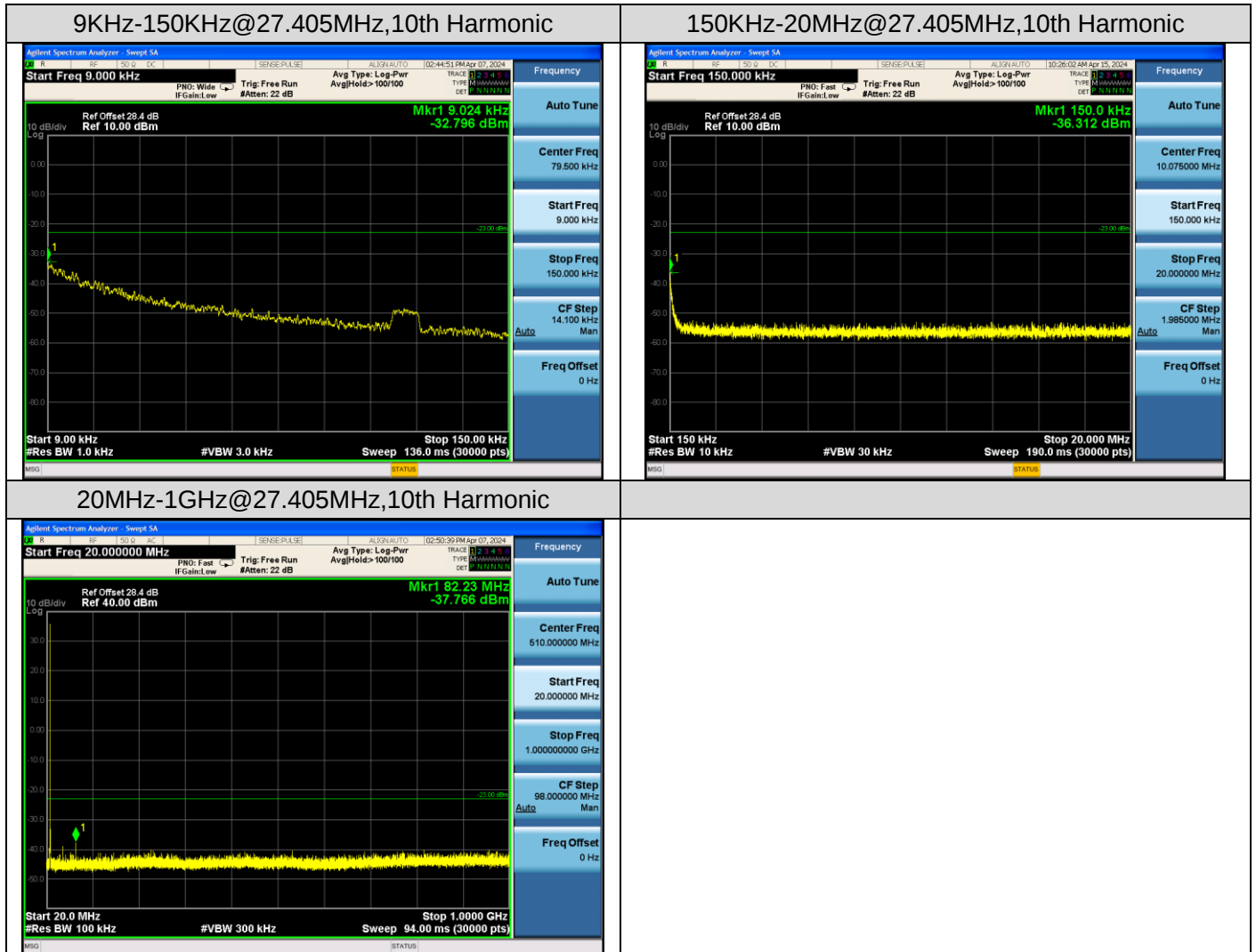


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Test plot as follows: Unwanted Emission: FM Modulation



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Test results as follows: Harmonic Emission

Test Mode	Freq. [MHz]	Reading [dBm]	Limit [dBm]	Margin [dB]
TX-CH1-AM	53.94	-36.415	-24.04	12.375
TX-CH20-AM	54.43	-37.844	-24.02	13.824
TX-CH40-AM	790.89	-38.929	-24.24	14.689
TX-CH1-FM	53.91	-38.137	-24.55	13.587
TX-CH20-FM	54.43	-37.217	-24.56	12.657
TX-CH40-FM	82.23	-37.766	-24.59	13.176

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10. Maximum Transmitter Power

10.1 Provisions Applicable

FCC Part 95.967, FCC Part 2.1046(a)

Each CBRS transmitter type must be designed such that the transmitter power can not exceed the following limits:

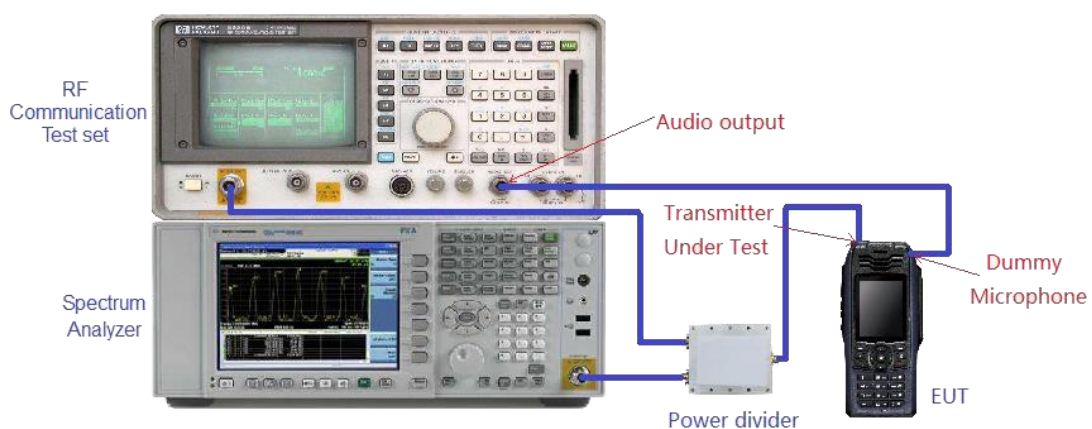
- (a) When transmitting amplitude modulated (AM) voice signals or frequency modulated (FM) voice signals, the mean carrier power must not exceed 4 Watts
- (b) When transmitting single sideband (SSB) voice signals, the peak envelope power must not exceed 12 Watts.

10.2 Measurement Method

Conducted RF Output Power:

1. The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.
2. 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.
3. Spectrum set as follow:
Centre frequency = fundamental frequency, Span=150kHz , RBW=30kHz, VBW=30kHz ;
Sweep = auto, Detector function = peak, Trace = max hold

10.3 Measurement Setup

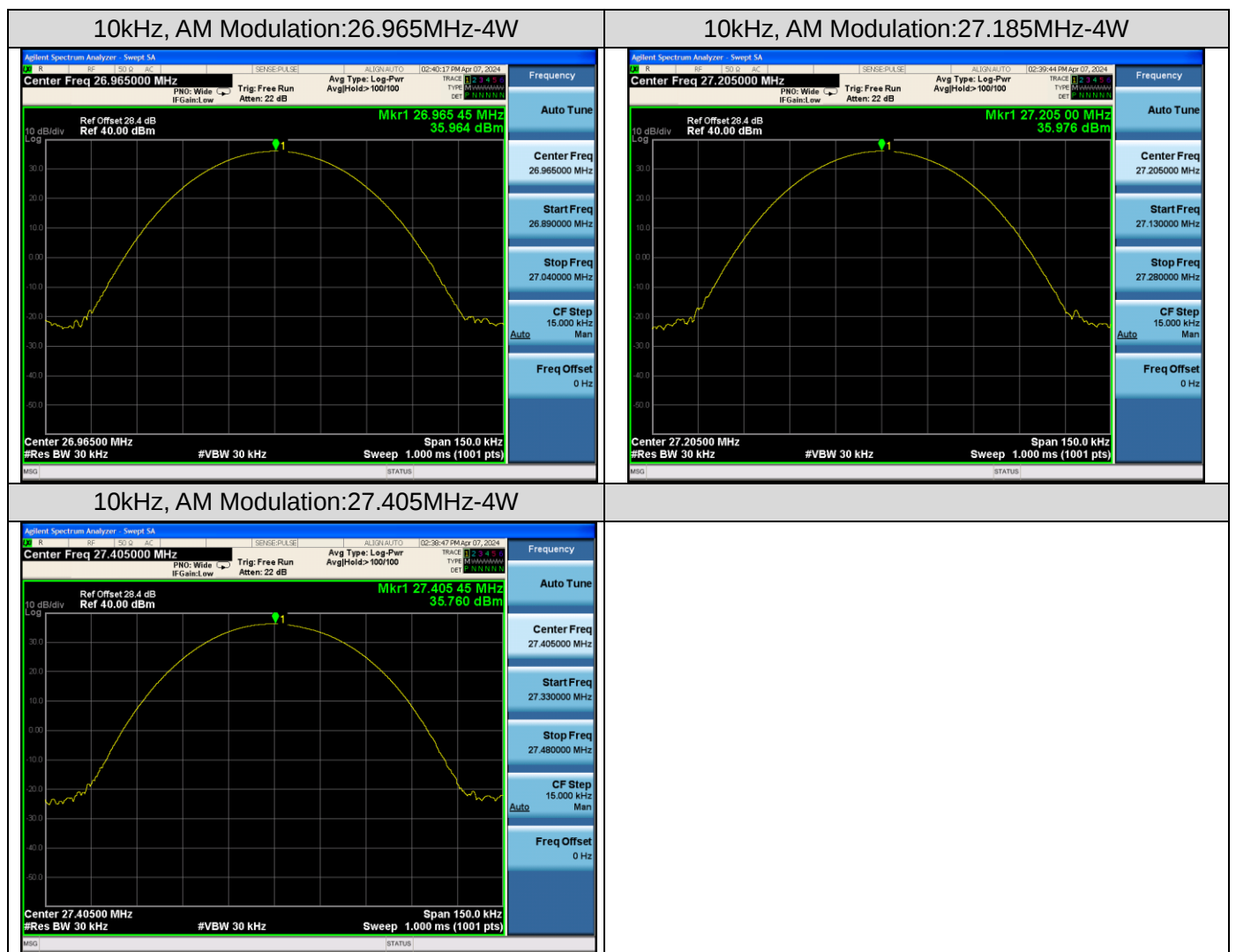


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10.4 Measurement Results

Conducted Power Measurement Results			
Mode	Channel Separation	Test Channel	Measurement Result (dBm)
CBRS TX	10 kHz	26.965 MHz	35.96
		27.205 MHz	35.98
		27.405 MHz	35.76

Test plot as follows:



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