
FCC Test Report

Report No.: AGC05067230601FE10

FCC ID : MMA75822F

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : 75-822

BRAND NAME : Midland

MODEL NAME : 75-822

APPLICANT : Midland Radio Corporation

DATE OF ISSUE : Jul 26, 2023

STANDARD(S) : FCC Part 95 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	/	Jul. 26, 2023	Valid	Initial Release

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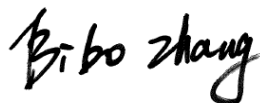
1. GENERAL INFORMATION

Applicant	Midland Radio Corporation
Address	5900 Parretta Drive Kansas City, Missouri 64120-2134 United States
Manufacturer	Midland Radio Corporation
Address	5900 Parretta Drive Kansas City, Missouri 64120-2134 United States
Factory	Midland Radio Corporation
Address	5900 Parretta Drive Kansas City, Missouri 64120-2134 United States
Product Designation	75-822
Brand Name	Midland
Test Model	75-822
Deviation from Standard	No any deviation from the test method
Date of receipt of test item	Jun. 15, 2023
Date of Test	Jun. 15, 2023~Jul. 26, 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-382-A-1998. The sample tested as described in this report is in compliance with the FCC Rules Part 95. The test results of this report relate only to the tested sample identified in this report.

Prepared By



Bibo Zhang
(Project Engineer)

Jul. 26, 2023

Reviewed By



Calvin Liu
(Reviewer)

Jul. 26, 2023

Approved By



Max Zhang
Authorized Officer

Jul. 26, 2023

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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	REV:2.2		
Software Version	75-822AMFM_V05		
Power Supply	DC 10-13.8V by Car charger DC 11.1V by battery DC 9.6V by battery DC 9.0V by battery		
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 (DC 13.8V by Car charger) 3W(DC 11.1V by battery) 2.5W(DC 9.6V by battery) 2W(DC 9.0V by battery) (It was fixed by the manufacturer, any individual can't arbitrarily change it.)		
Maximum Transmitter Power		AM	FM
	4W (DC 13.8V by Car charger):	35.585dBm	35.456dBm
	3W(DC 11.1V by battery)	34.671dBm	34.428dBm
	2.5W(DC 9.6V by battery):	33.579dBm	33.202dBm
	2W(DC 9.0V by battery):	32.528dBm	32.136dBm
Antenna Designation	Detachable		
Antenna Type	External antenna		
Antenna Gain	1.0dBi		
Frequency Tolerance	1.099ppm		

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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: **MMA75822F**, 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.

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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	DC 13.8V	LV: DC 11.73V/HV:DC 15.87V
Power supply	DC 11.1V	LV: DC 9.44V/HV:DC 12.77V
Power supply	DC 9.6V	LV: DC 8.16V/HV:DC 10.53V
Power supply	DC 9.0V	LV: DC 7.65V/HV:DC 10.35V
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
Mar. 28, 2022	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9020A	W1312-60196	Aug. 16, 2022	Aug. 15, 2023
EXA Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
preamplifier	ChengYi	EMC184045SE	980508	Sep. 29, 2021	Sep. 28, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 03, 2023	Jun. 02, 2024
HORN ANTENNA	EM	EM-AH-10180	/	Feb. 24, 2022	Feb. 23, 2024
SIGNAL GENERATOR	AGILENT	E4421B	MY43351603	Feb. 17, 2023	Feb. 16, 2024
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 03, 2023	Jun. 02, 2024
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2025
ANTENNA	SCHWARZBECK	VULB9168	D69250	May 11, 2023	May 10, 2025
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Modulation Domain Analyzer	HP	53310A	3121A02467	Jun. 08, 2022	Jun. 07, 2024
Small environmental tester	ESPEC	SH-242	--	Aug. 03, 2022	Aug. 02, 2023
RF Communication Test Set	HP	8920B	US35010161	Aug. 03, 2022	Aug. 02, 2023
Attenuator	Weinachel Corp	58-30-33	ML030	Oct. 22, 2022	Oct. 21, 2023
RF Cable	R&S	1#	--	Each time	N/A
RF Cable	R&S	2#	--	Each time	N/A
Fliter(50MHz-1GHz)	SCH	N30687F9	--	May 21, 2023	May 20, 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

Item	Equipment	Model No.	Identifier	Note
1	Load Antenna	Terminator DC-3G	50W	Accessories

☒ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	75-822	75-822	FCC ID: MMA75822F	EUT
2	Adapter	AK08WG-1500010UW	Input: AC100-240V 50/60Hz, 0.2A	Accessories
3	Car Charger	N/A	DC 13.8V	Accessories
4	Battery	244758	DC 11.1V 2800mAh	Accessories
5	Battery	N/A	DC 9.6V(1.2V Alkaline battery AA*8)	Accessories
6	Battery	N/A	DC 9.0V(1.5V NiMH chargeable AA *6)	Accessories

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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 (**75-822**) 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

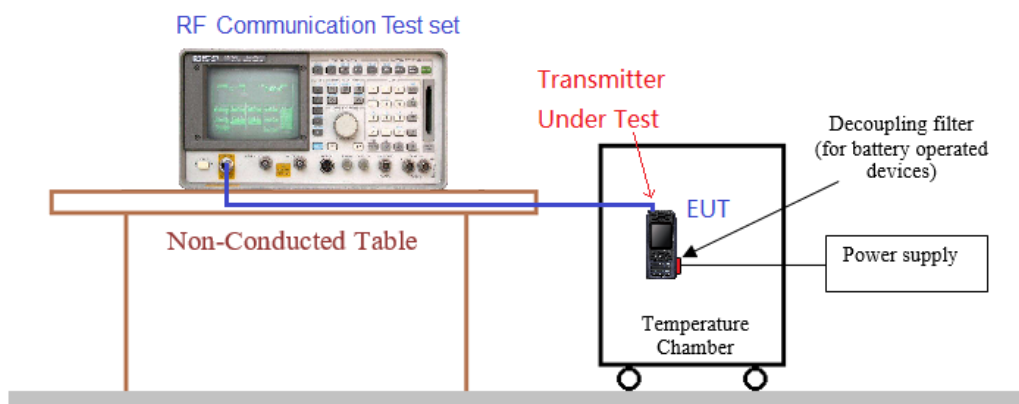
6.2.1 Frequency stability versus environmental temperature

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 car charger DC 13.8V or by battery DC 11.1V or by battery DC 9.6V or by battery DC 9V.
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 RESULTS

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	27.205MHz	27.405MHz		
13.80	-30	0.759	0.653	0.808	50	Pass
	-20	0.739	0.985	0.818		
	-10	1.004	0.896	1.049		
	0	1.009	0.866	0.843		
	10	0.884	1.099	0.696		
	20	1.001	0.966	0.707		
	30	0.841	0.999	0.862		
	40	1.011	0.556	0.728		
	50	0.893	0.830	1.076		
15.87	20	0.781	0.932	0.874		
11.73	20	0.750	0.630	0.634		

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	27.205MHz	27.405MHz		
13.80	-30	0.486	0.653	1.021	50	Pass
	-20	0.719	0.675	1.037		
	-10	0.709	0.744	1.029		
	0	1.059	0.965	0.967		
	10	0.688	1.011	1.016		
	20	0.666	0.999	0.736		
	30	1.022	0.937	0.643		
	40	0.950	0.709	0.549		
	50	1.003	0.604	0.686		
15.87	20	0.824	0.551	0.852		
11.73	20	0.711	1.043	0.643		

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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	27.205MHz	27.405MHz		
11.1	-30	0.941	0.567	0.516	50	Pass
	-20	0.569	0.918	0.582		
	-10	1.044	0.726	1.071		
	0	1.007	0.989	0.924		
	10	0.690	0.559	0.610		
	20	0.710	0.634	0.716		
	30	0.579	0.801	0.786		
	40	0.562	1.001	1.043		
	50	0.647	0.663	1.011		
12.77	20	1.044	0.974	0.946		
9.44	20	0.529	0.659	0.540		

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	27.205MHz	27.405MHz		
11.1	-30	0.902	0.966	0.867	50	Pass
	-20	0.772	0.905	1.016		
	-10	0.606	0.551	0.879		
	0	0.804	0.913	0.537		
	10	1.004	0.671	0.717		
	20	0.522	1.001	0.930		
	30	0.716	1.007	0.694		
	40	0.706	0.818	0.977		
	50	0.867	0.760	1.028		
12.77	20	0.863	0.799	0.897		
9.44	20	0.792	0.804	1.078		

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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	27.205MHz	27.405MHz		
9.6	-30	0.968	0.929	0.960	50	Pass
	-20	0.799	0.842	0.528		
	-10	1.067	1.064	0.738		
	0	0.538	0.547	0.848		
	10	1.001	1.003	0.861		
	20	0.578	0.587	0.697		
	30	1.079	0.551	0.518		
	40	0.936	0.936	0.818		
	50	0.737	0.700	0.575		
10.53	20	0.945	0.886	1.031		
8.16	20	0.964	0.554	1.064		

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	27.205MHz	27.405MHz		
9.6	-30	0.941	0.923	0.859	50	Pass
	-20	0.822	1.055	0.517		
	-10	0.835	0.740	0.719		
	0	0.974	0.719	0.725		
	10	1.001	1.088	0.987		
	20	0.627	0.798	0.888		
	30	0.839	0.693	0.860		
	40	0.819	1.021	0.744		
	50	0.718	0.575	0.534		
10.53	20	0.695	0.609	0.903		
8.16	20	0.932	0.554	0.786		

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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	27.205MHz	27.405MHz		
9.0	-30	0.609	0.653	0.868	50	Pass
	-20	0.784	1.100	0.532		
	-10	0.536	0.984	0.733		
	0	0.551	0.929	0.802		
	10	1.005	0.620	0.604		
	20	0.573	0.627	0.806		
	30	0.871	0.752	0.929		
	40	0.942	0.753	0.874		
	50	0.936	0.744	0.546		
10.35	20	0.676	0.598	0.992		
7.65	20	0.788	0.632	0.772		

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	27.205MHz	27.405MHz		
9.0	-30	1.026	0.563	0.627	50	Pass
	-20	0.770	0.645	0.653		
	-10	0.543	0.745	0.954		
	0	0.576	0.640	1.072		
	10	0.619	0.714	0.928		
	20	0.605	0.502	0.699		
	30	1.076	1.069	0.906		
	40	0.851	0.621	0.809		
	50	1.008	1.036	1.063		
10.35	20	0.505	1.088	0.867		
7.65	20	0.816	1.079	1.040		

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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.

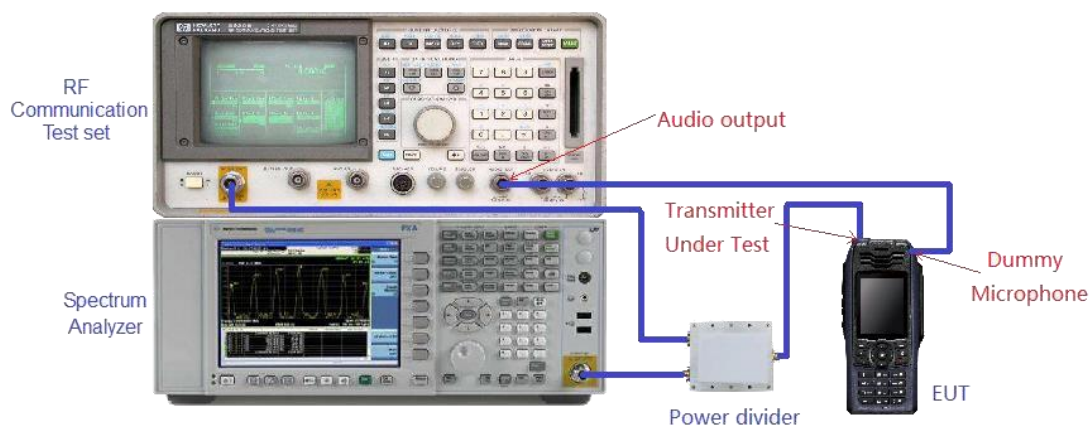
(a) AM and FM. The authorized bandwidth for emission type A3E and F3E is 8 kHz.

(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



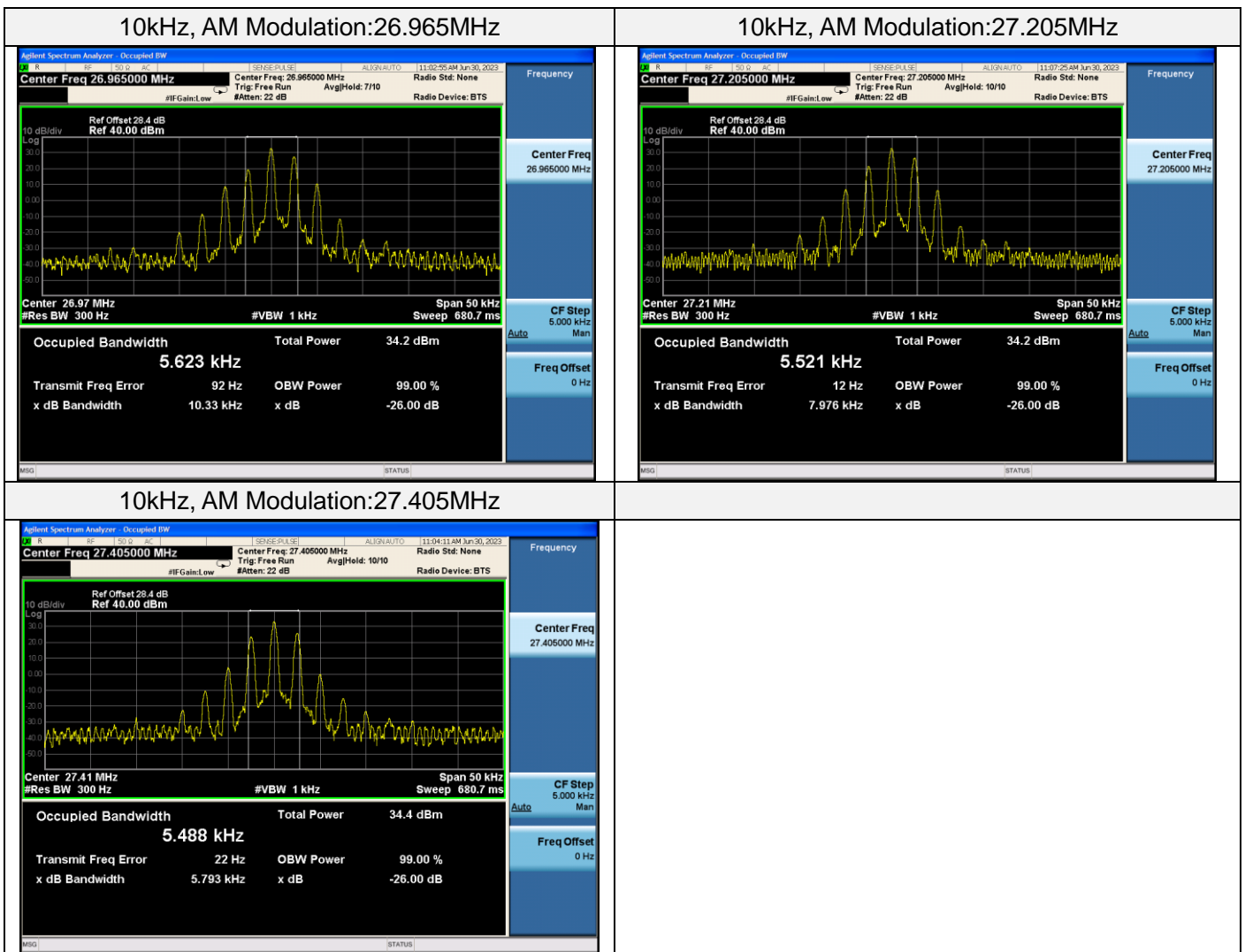
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7.4 MEASUREMENT RESULTS

Emission Bandwidth Measurement Result-CBRS-4W (DC 13.8V by Car charger)				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.623 kHz	10.33 kHz	8.0 kHz	Pass
27.205 MHz	5.521 kHz	7.976 kHz	8.0 kHz	Pass
27.405 MHz	5.488 kHz	5.793 kHz	8.0 kHz	Pass

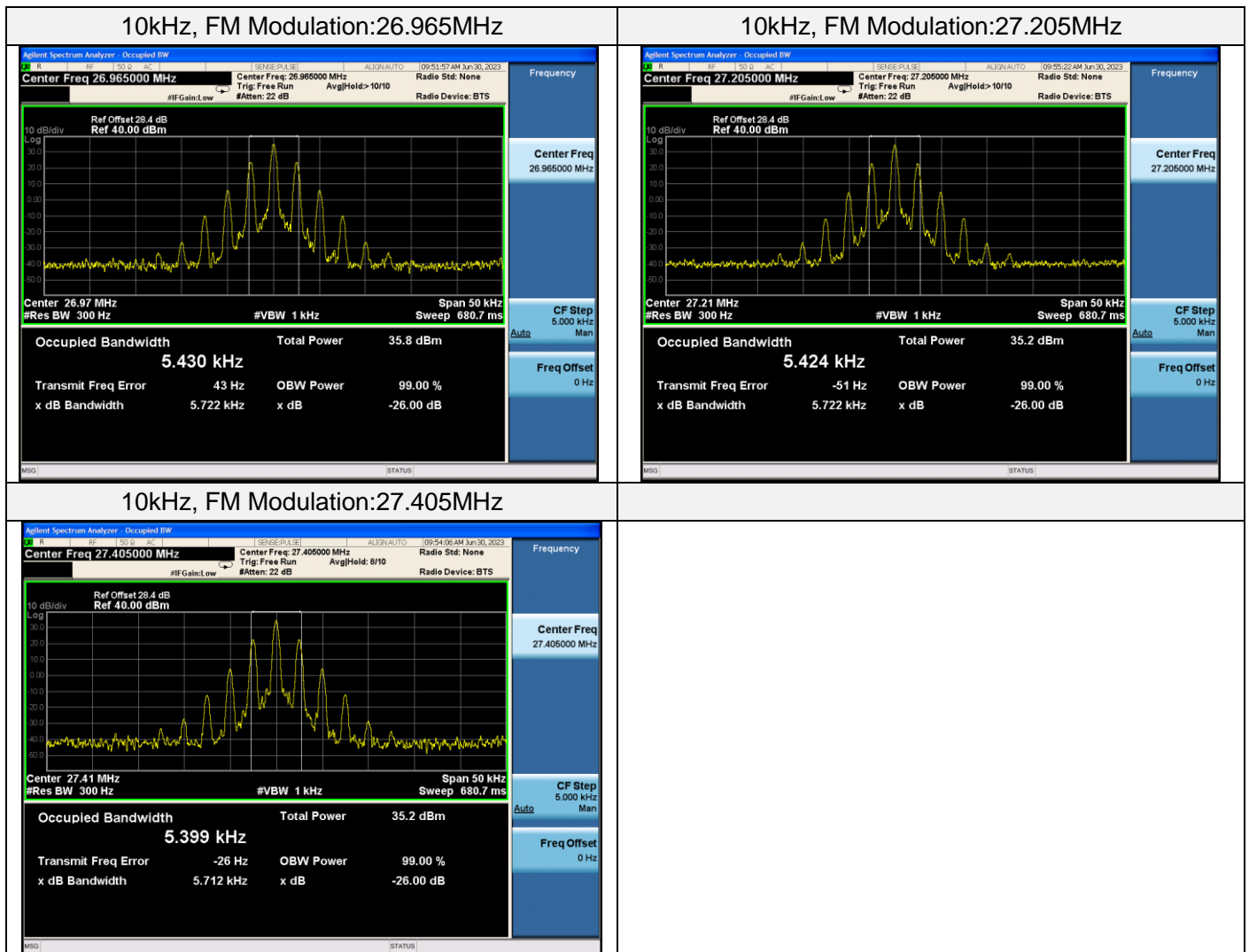
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-4W (DC 13.8V by Car charger)				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.430 kHz	5.722 kHz	8.0 kHz	Pass
27.205 MHz	5.424 kHz	5.722 kHz	8.0 kHz	Pass
27.405 MHz	5.399 kHz	5.712 kHz	8.0 kHz	Pass

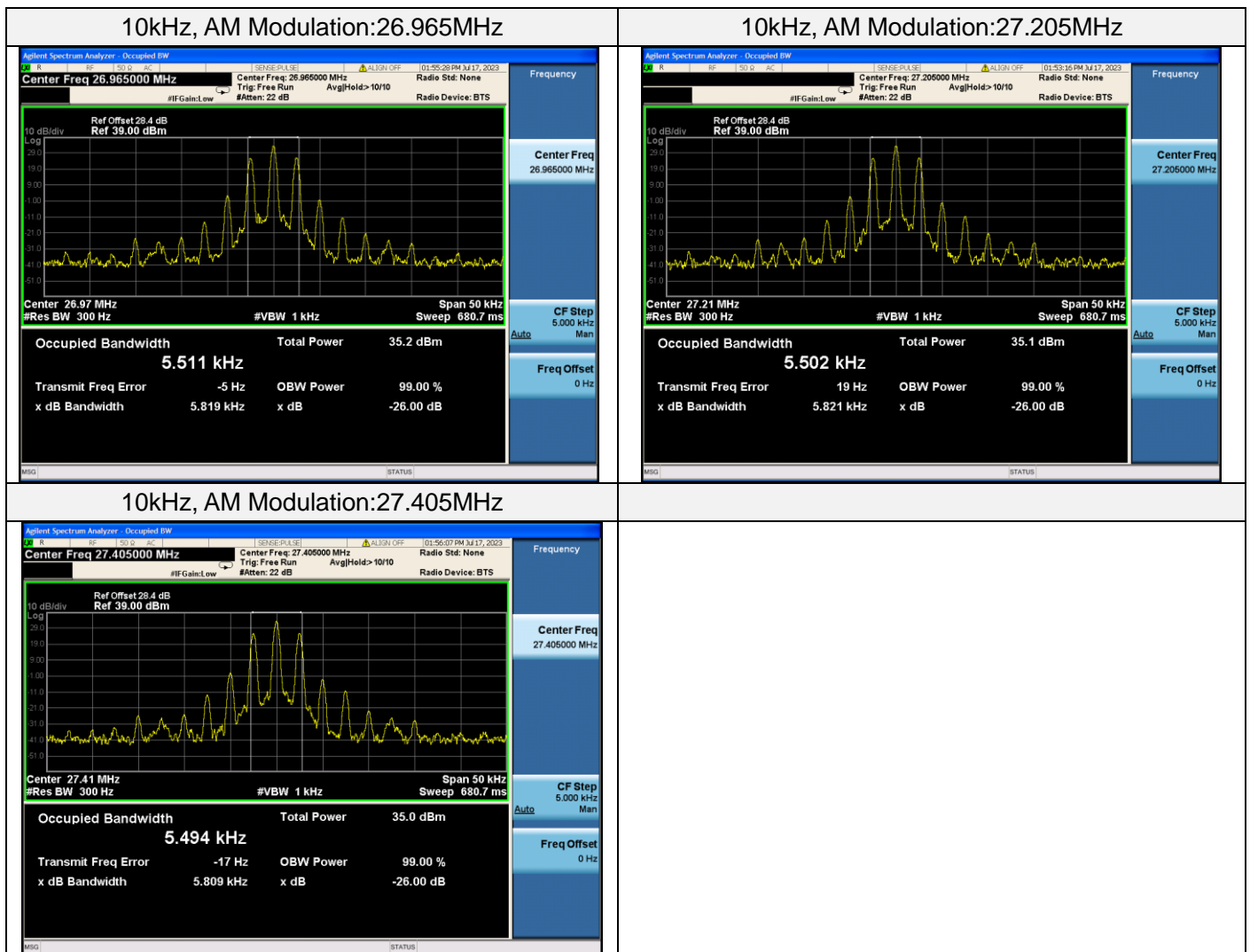
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-3W(DC 11.1V by battery)				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.511 kHz	5.819 kHz	8.0 kHz	Pass
27.205 MHz	5.502 kHz	5.821 kHz	8.0 kHz	Pass
27.405 MHz	5.494 kHz	5.809 kHz	8.0 kHz	Pass

Test plot as follows:

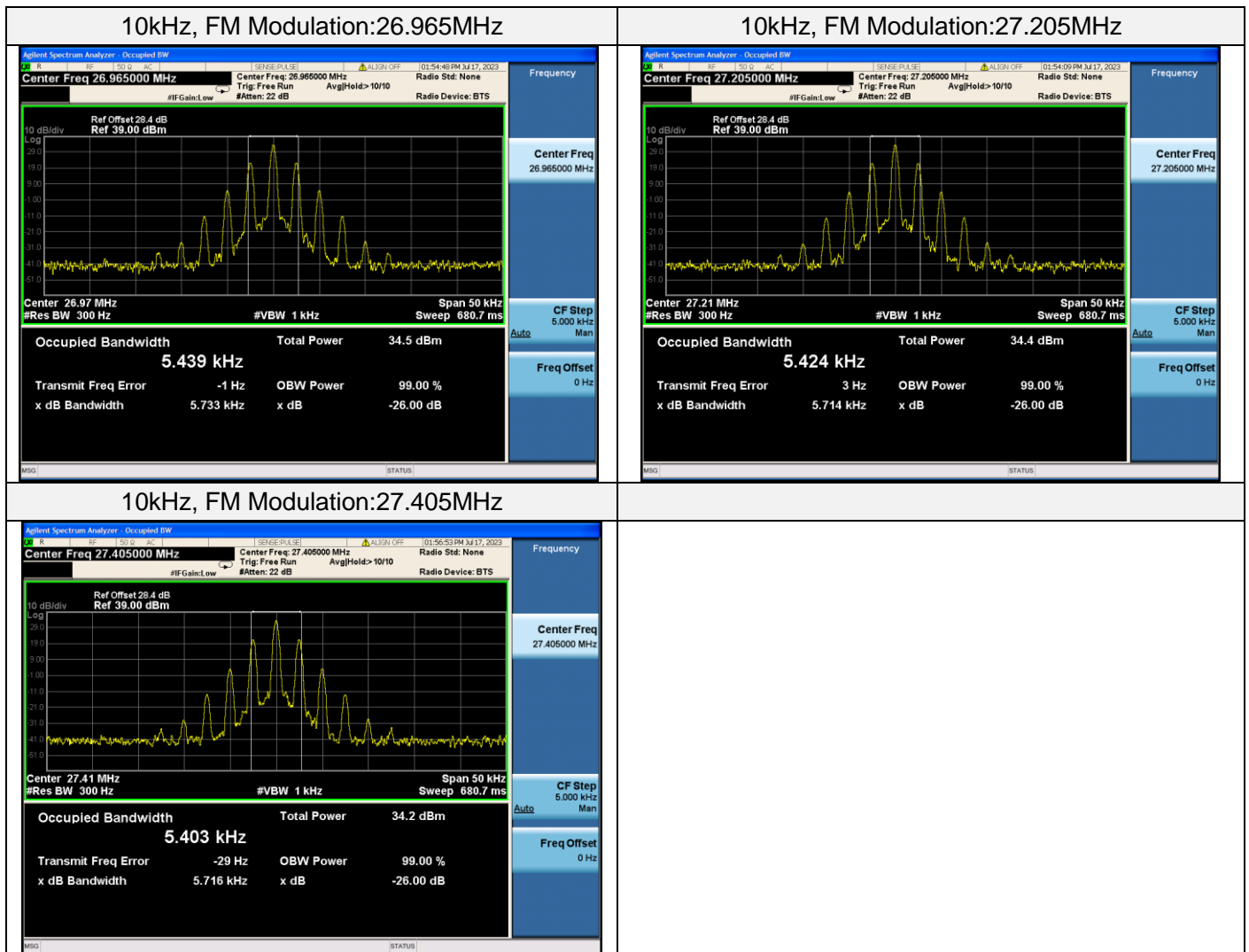


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Emission Bandwidth Measurement Result-CBRS-3W(DC 11.1V by battery)

Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.439 kHz	5.733 kHz	8.0 kHz	Pass
27.205 MHz	5.424 kHz	5.714 kHz	8.0 kHz	Pass
27.405 MHz	5.403 kHz	5.716 kHz	8.0 kHz	Pass

Test plot as follows:

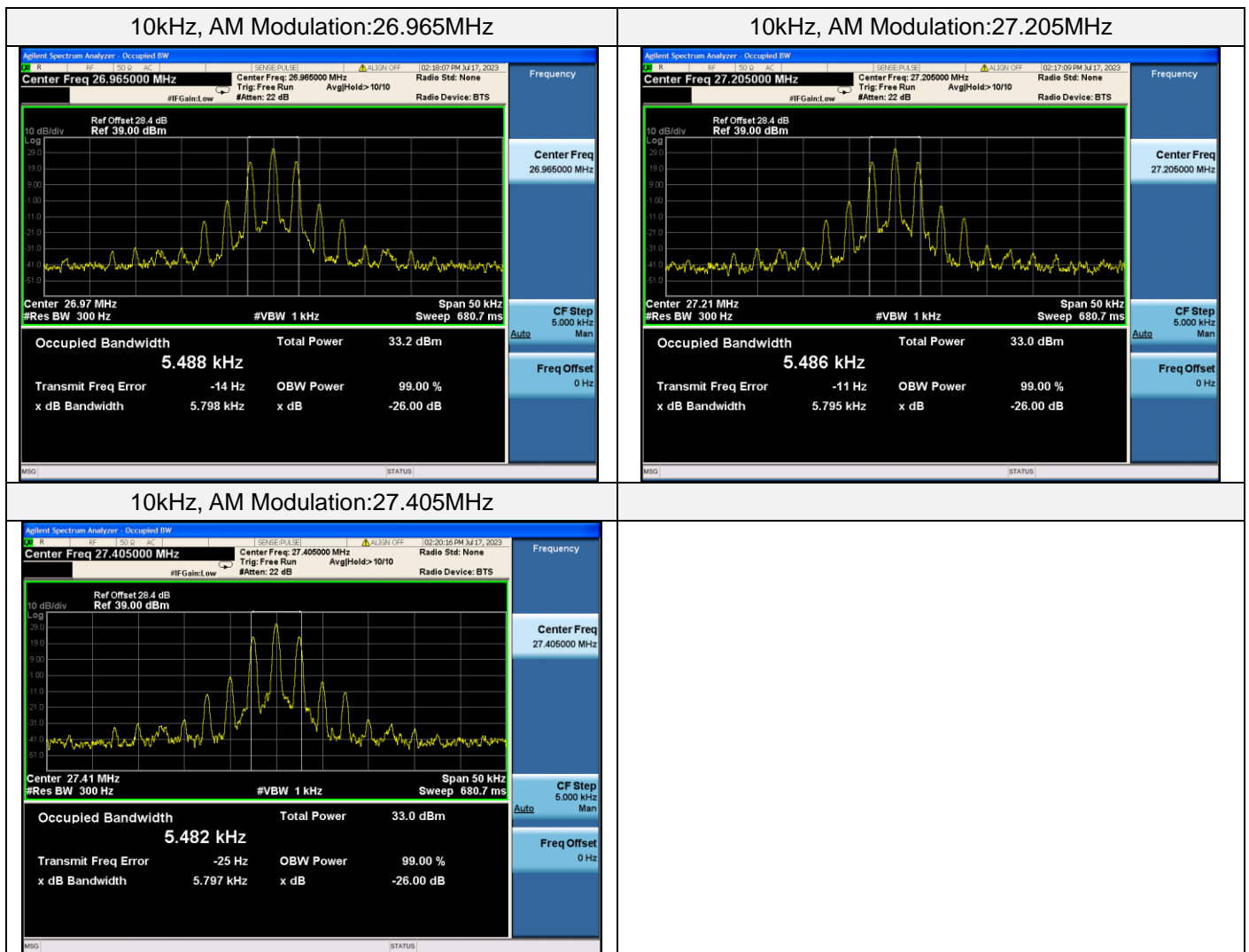


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Emission Bandwidth Measurement Result-CBRS-2.5W(DC 9.6V by battery)

Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.488 kHz	5.798 kHz	8.0 kHz	Pass
27.205 MHz	5.486 kHz	5.795 kHz	8.0 kHz	Pass
27.405 MHz	5.482 kHz	5.797 kHz	8.0 kHz	Pass

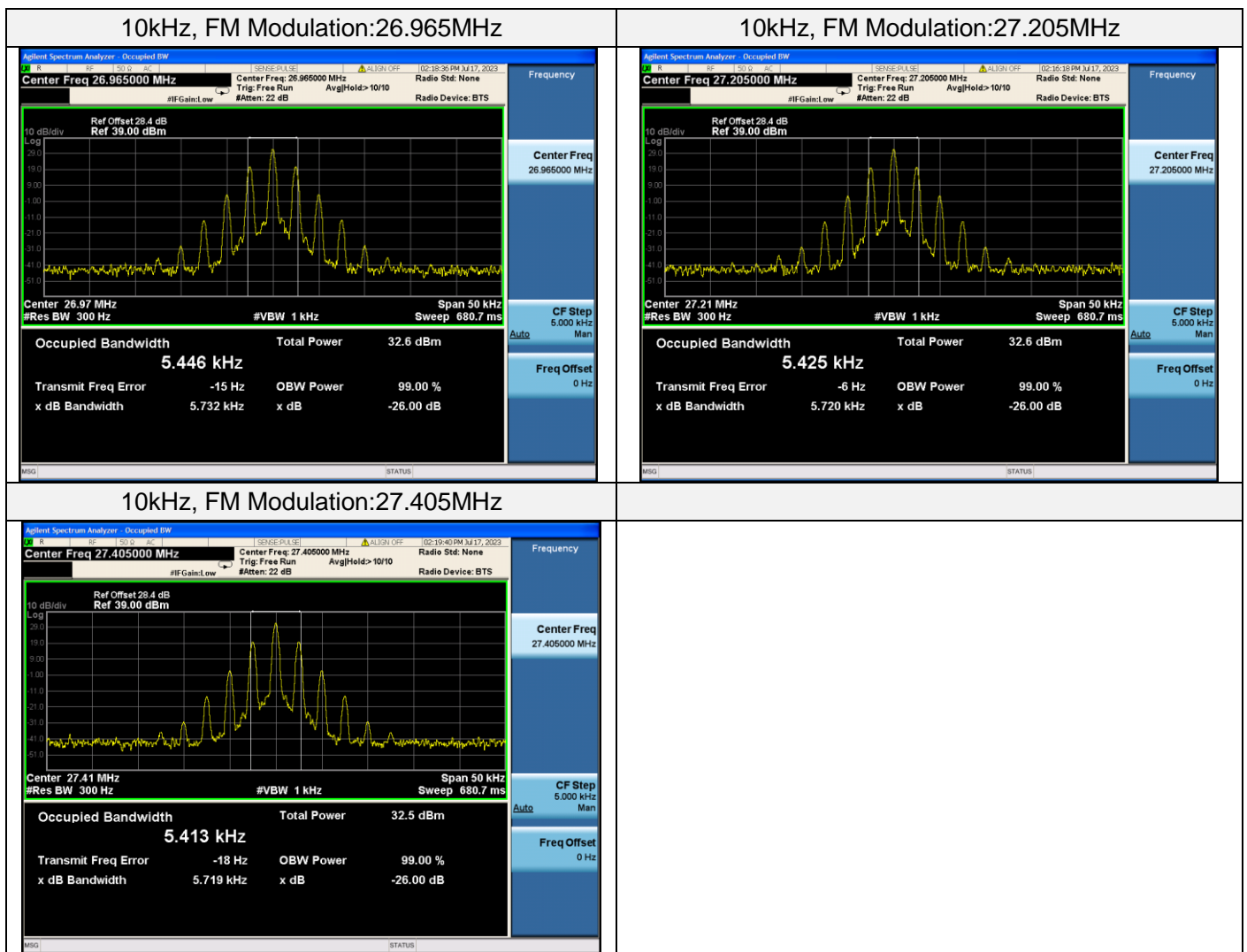
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-2.5W(DC 9.6V by battery)				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.446 kHz	5.732 kHz	8.0 kHz	Pass
27.205 MHz	5.425 kHz	5.720 kHz	8.0 kHz	Pass
27.405 MHz	5.413 kHz	5.719 kHz	8.0 kHz	Pass

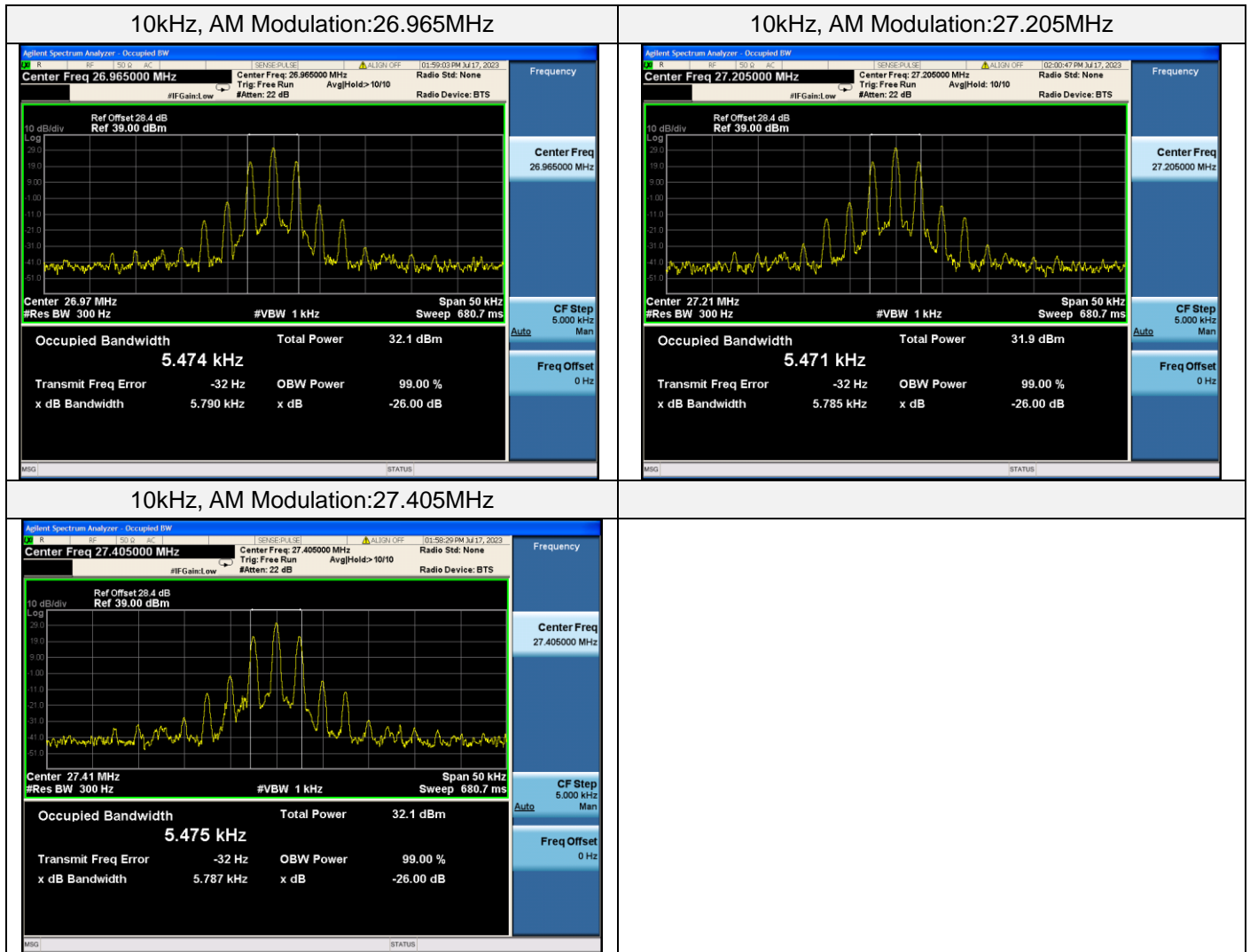
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-2W(DC 9.0V by battery)				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.474 kHz	5.790 kHz	8.0 kHz	Pass
27.205 MHz	5.471 kHz	5.785 kHz	8.0 kHz	Pass
27.405 MHz	5.475 kHz	5.787 kHz	8.0 kHz	Pass

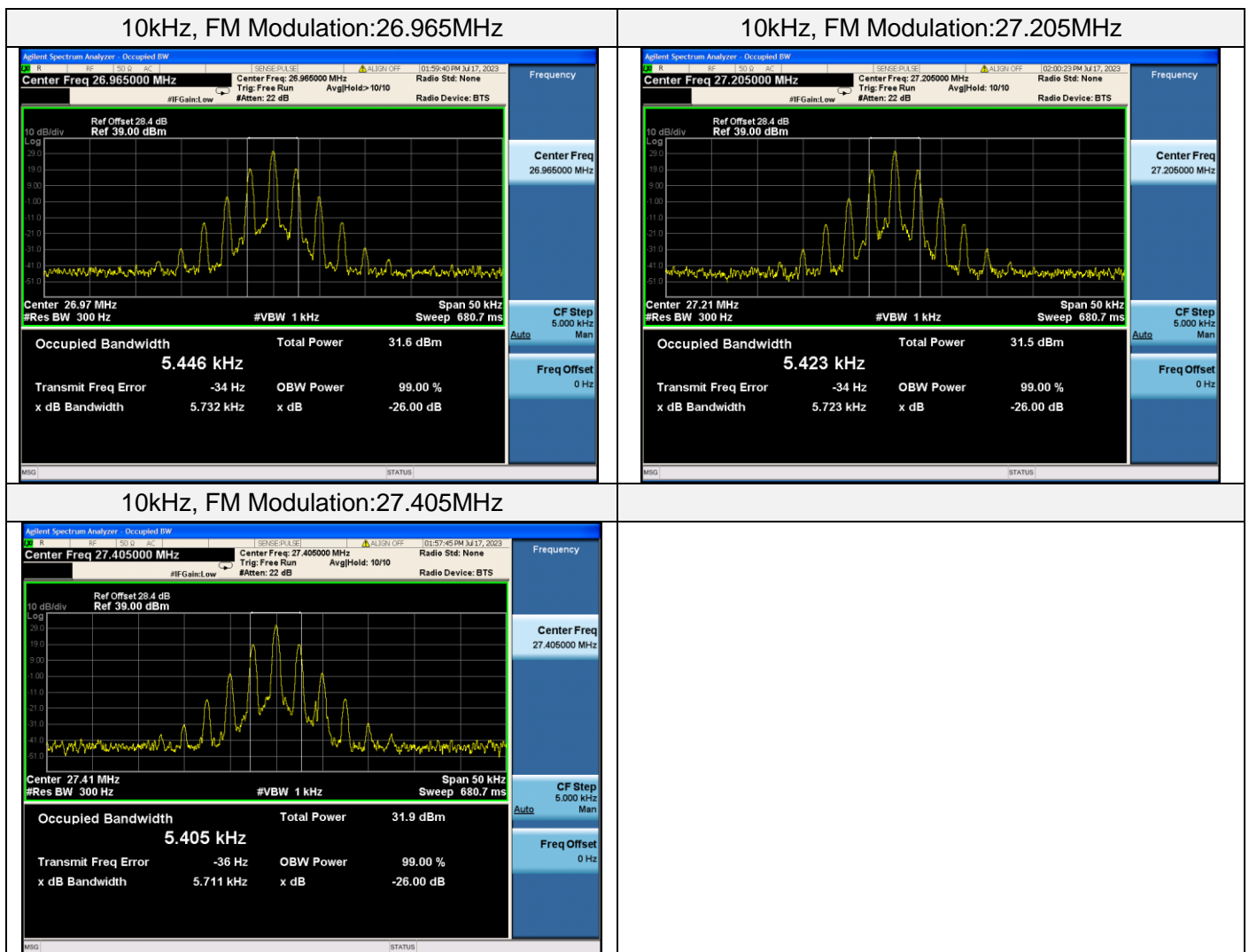
Test plot as follows:



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Emission Bandwidth Measurement Result-CBRS-2W(DC 9.0V by battery)				
Operating Frequency	10 kHz Channel Separation			
	Occupied Bandwidth	Emission Bandwidth	Limits	Result
26.965 MHz	5.446 kHz	5.732 kHz	8.0 kHz	Pass
27.205 MHz	5.423 kHz	5.723 kHz	8.0 kHz	Pass
27.405 MHz	5.405 kHz	5.711 kHz	8.0 kHz	Pass

Test plot as follows:



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8. RATIATED 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 1.5 meter 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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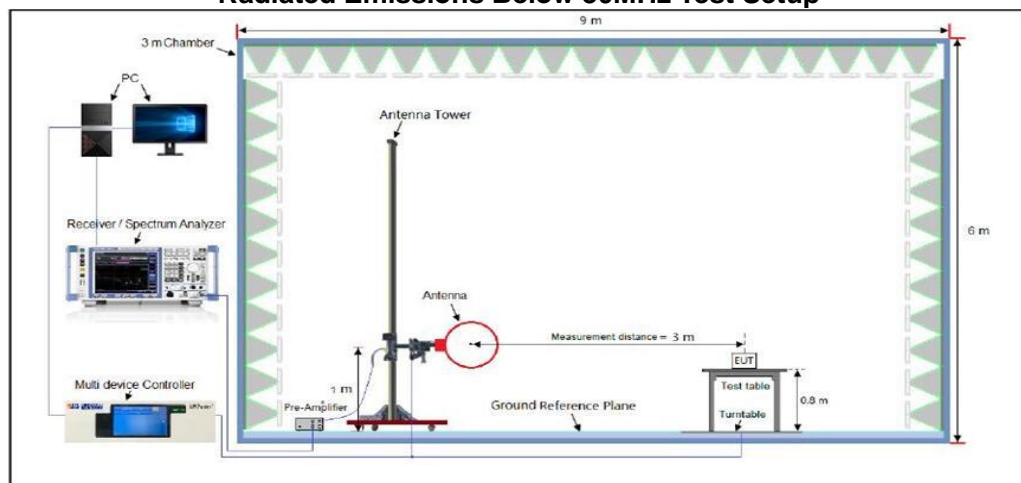
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

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.

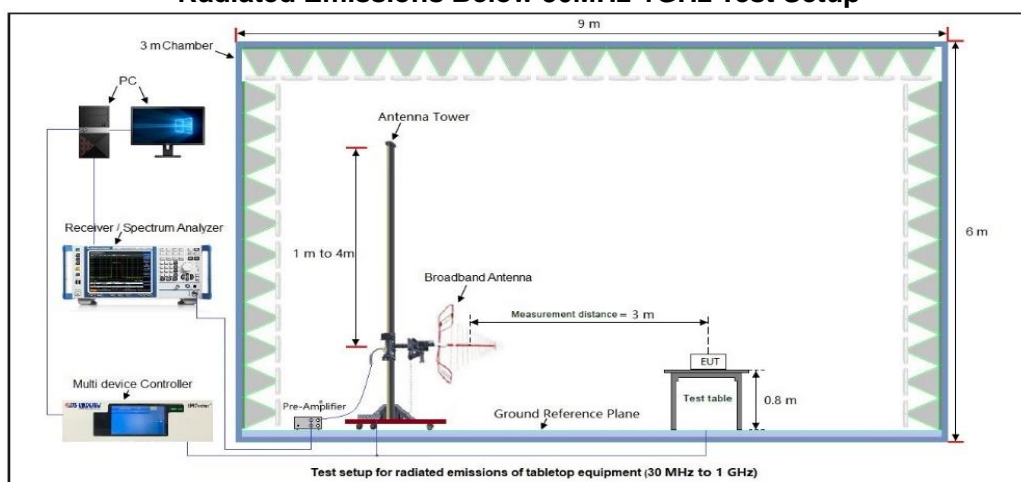
5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test
6. The measurement results are obtained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

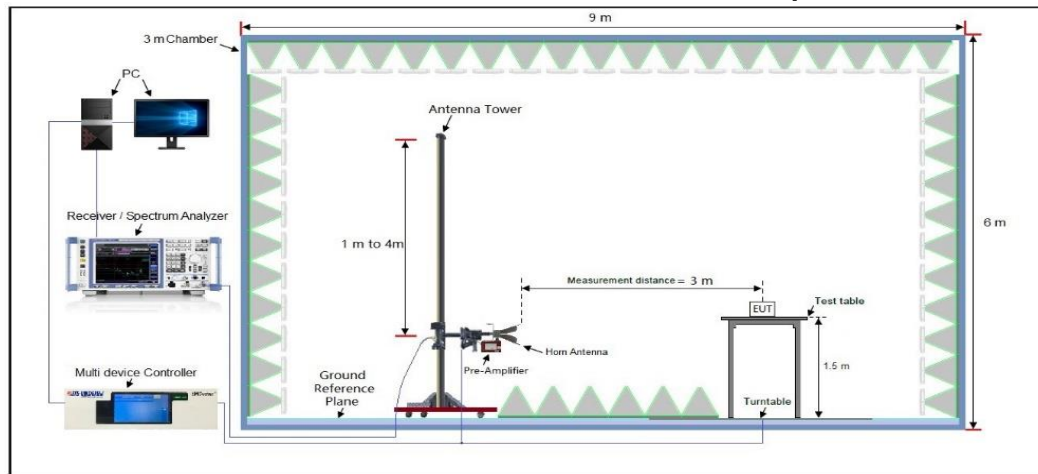


Radiated Emissions Below 30MHz-1GHz Test Setup



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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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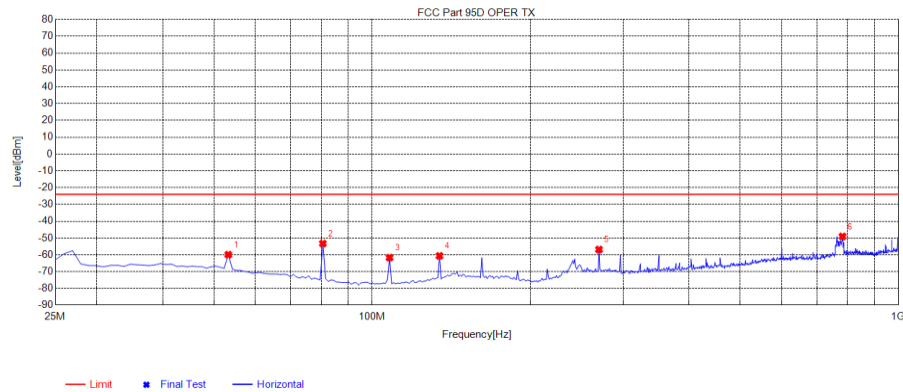
Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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

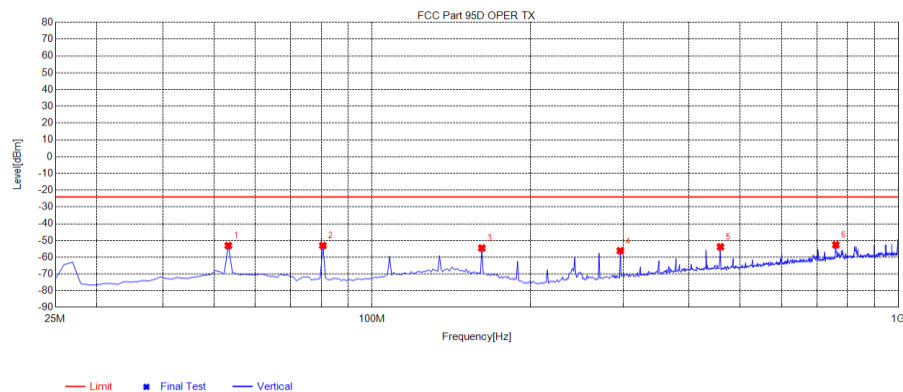
UNWANTED Emission

Test Mode:	TX-CH1 by car charger DC 13.8V 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	-92.63	-59.91	-23.00	36.91	32.72	290	Horizontal
2	80.575	-79.92	-53.30	-23.00	30.30	26.62	350	Horizontal
3	107.875	-86.63	-61.66	-23.00	38.66	24.97	151	Horizontal
4	134.2	-88.88	-60.62	-23.00	37.62	28.26	134	Horizontal
5	269.725	-89.83	-56.87	-23.00	33.87	32.96	75	Horizontal
6	782.575	-91.90	-49.06	-23.00	26.06	42.84	274	Horizontal

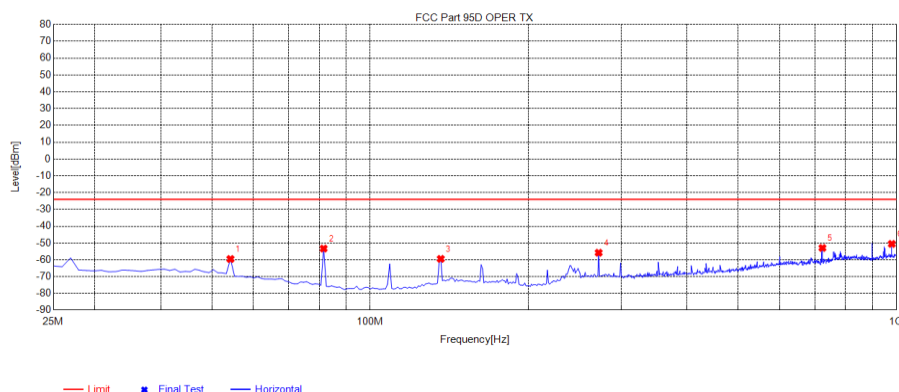
Test Mode:	TX-CH1 by car charger DC 13.8V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-83.40	-53.08	-23.00	30.08	30.32	160	Vertical
2	80.575	-81.63	-53.02	-23.00	30.02	28.61	304	Vertical
3	161.5	-87.34	-54.52	-23.00	31.52	32.82	360	Vertical
4	296.05	-87.03	-56.14	-23.00	33.14	30.89	67	Vertical
5	458.875	-89.61	-53.80	-23.00	30.80	35.81	168	Vertical
6	760.15	-94.23	-52.62	-23.00	29.62	41.61	245	Vertical

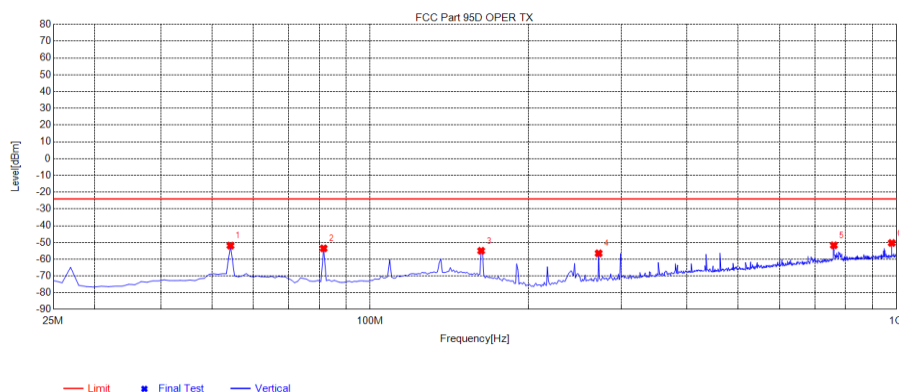
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Test Mode:	TX-CH20 by car charger DC 13.8V AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-91.97	-59.53	-23.00	36.53	32.44	282	Horizontal
2	81.55	-79.76	-53.31	-23.00	30.31	26.45	351	Horizontal
3	136.15	-88.08	-59.44	-23.00	36.44	28.64	156	Horizontal
4	271.675	-88.87	-55.80	-23.00	32.80	33.07	71	Horizontal
5	723.1	-93.84	-52.96	-23.00	29.96	40.88	182	Horizontal
6	979.525	-95.21	-50.54	-23.00	27.54	44.67	130	Horizontal

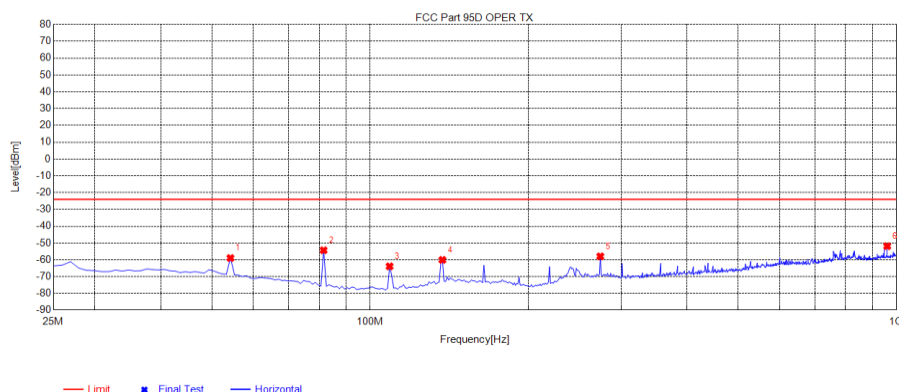
Test Mode:	TX-CH20 by car charger DC 13.8V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-82.38	-51.90	-23.00	28.90	30.48	287	Vertical
2	81.55	-82.09	-53.52	-23.00	30.52	28.57	304	Vertical
3	162.475	-87.67	-54.97	-23.00	31.97	32.70	360	Vertical
4	271.675	-86.66	-56.48	-23.00	33.48	30.18	93	Vertical
5	760.15	-93.31	-51.70	-23.00	28.70	41.61	203	Vertical
6	979.525	-94.45	-50.33	-23.00	27.33	44.12	245	Vertical

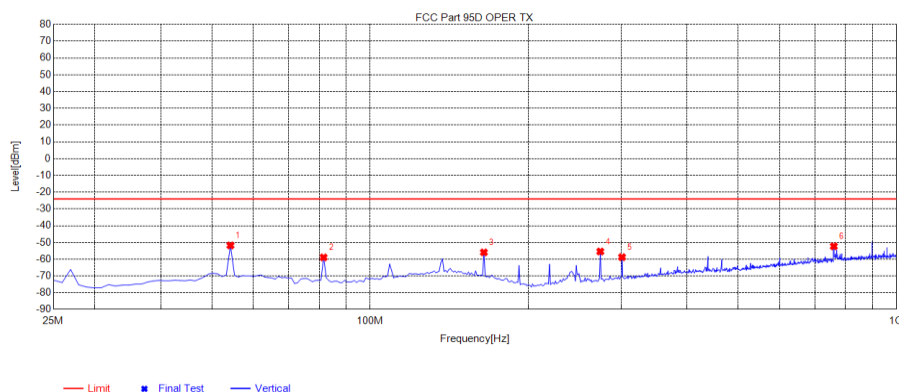
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Test Mode:	TX-CH40 by car charger DC 13.8V AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-91.38	-58.94	-23.00	35.94	32.44	334	Horizontal
2	81.55	-80.77	-54.32	-23.00	31.32	26.45	351	Horizontal
3	108.85	-88.90	-63.88	-23.00	40.88	25.02	148	Horizontal
4	137.125	-88.89	-60.06	-23.00	37.06	28.83	123	Horizontal
5	273.625	-91.14	-57.96	-23.00	34.96	33.18	64	Horizontal
6	960.025	-96.13	-51.89	-23.00	28.89	44.24	132	Horizontal

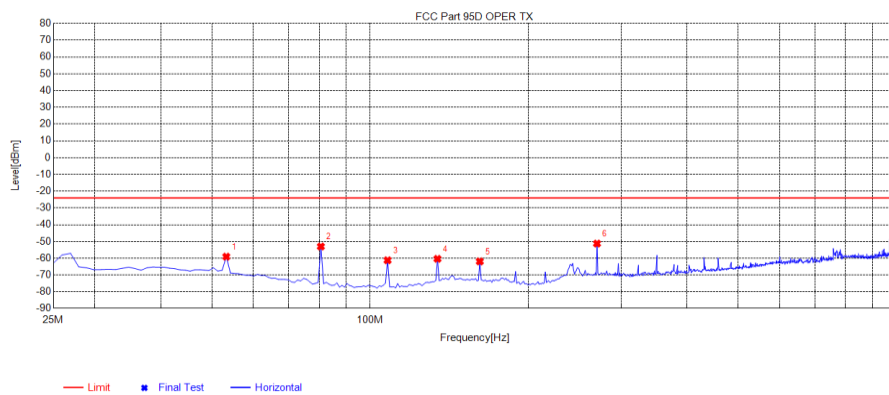
Test Mode:	TX-CH40 by car charger DC 13.8V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-82.25	-51.77	-23.00	28.77	30.48	152	Vertical
2	81.55	-87.49	-58.92	-23.00	35.92	28.57	126	Vertical
3	164.425	-88.38	-55.92	-23.00	32.92	32.46	1	Vertical
4	273.625	-85.71	-55.40	-23.00	32.40	30.31	92	Vertical
5	300.925	-89.75	-58.78	-23.00	35.78	30.97	67	Vertical
6	760.15	-93.90	-52.29	-23.00	29.29	41.61	360	Vertical

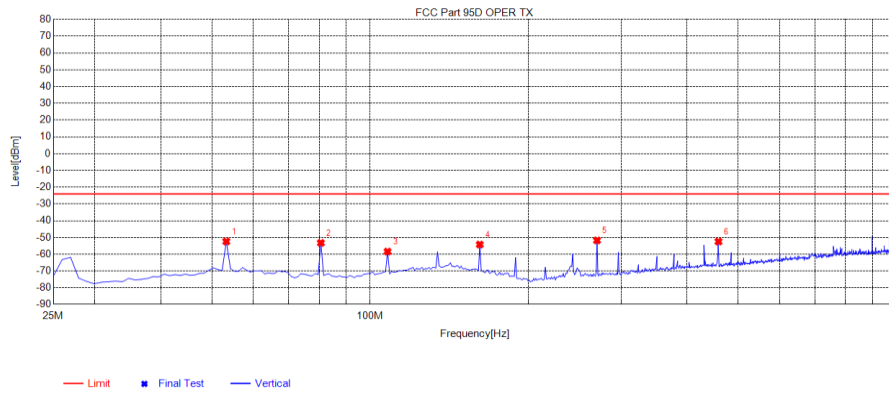
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Test Mode:	TX-CH1 by car charger DC 13.8V FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-91.80	-59.08	-23.00	36.08	32.72	317	Horizontal
2	80.575	-79.63	-53.01	-23.00	30.01	26.62	351	Horizontal
3	107.875	-86.19	-61.22	-23.00	38.22	24.97	163	Horizontal
4	134.2	-88.63	-60.37	-23.00	37.37	28.26	146	Horizontal
5	161.5	-91.25	-61.92	-23.00	38.92	29.33	112	Horizontal
6	269.725	-84.23	-51.27	-23.00	28.27	32.96	78	Horizontal

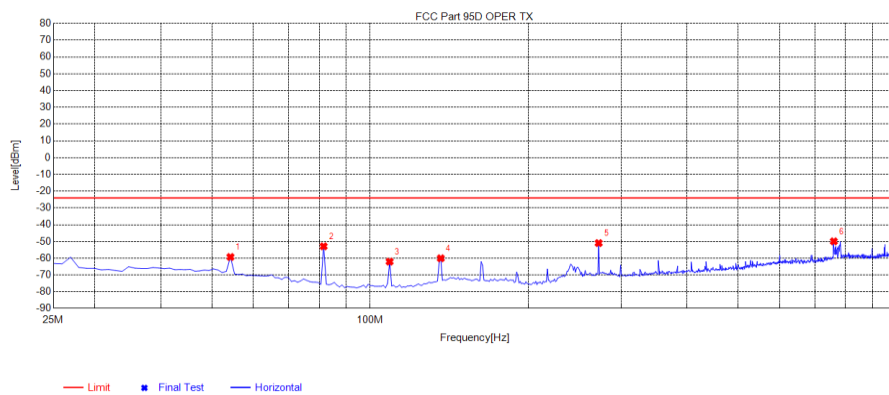
Test Mode:	TX-CH1 by car charger DC 13.8V FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-82.71	-52.39	-23.00	29.39	30.32	188	Vertical
2	80.575	-81.85	-53.24	-23.00	30.24	28.61	325	Vertical
3	107.875	-89.16	-58.41	-23.00	35.41	30.75	145	Vertical
4	161.5	-87.05	-54.23	-23.00	31.23	32.82	358	Vertical
5	269.725	-81.82	-51.76	-23.00	28.76	30.06	94	Vertical
6	458.875	-88.25	-52.44	-23.00	29.44	35.81	205	Vertical

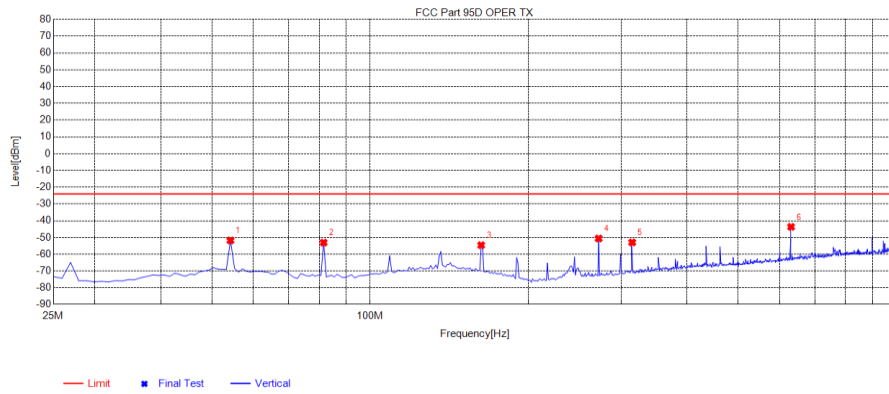
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Test Mode:	TX-CH20 by car charger DC 13.8V FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-91.71	-59.27	-23.00	36.27	32.44	291	Horizontal
2	81.55	-79.35	-52.90	-23.00	29.90	26.45	351	Horizontal
3	108.85	-87.06	-62.04	-23.00	39.04	25.02	159	Horizontal
4	136.15	-88.67	-60.03	-23.00	37.03	28.64	141	Horizontal
5	271.675	-84.03	-50.96	-23.00	27.96	33.07	74	Horizontal
6	760.15	-92.04	-49.94	-23.00	26.94	42.10	266	Horizontal

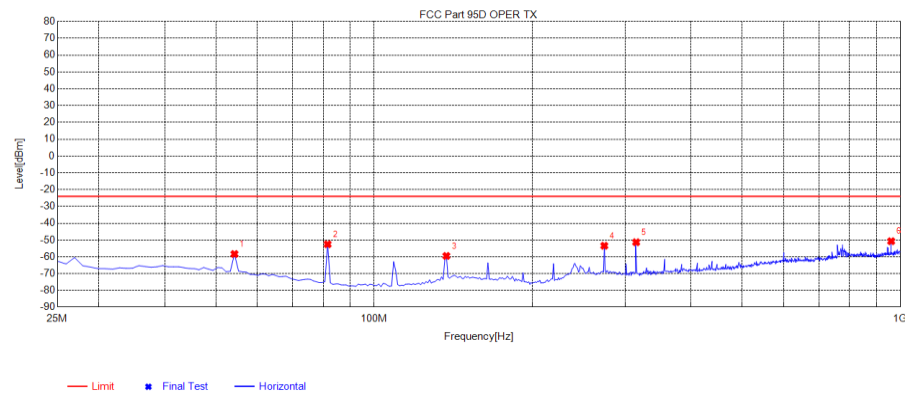
Test Mode:	TX-CH20 by car charger DC 13.8V FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-82.25	-51.77	-23.00	28.77	30.48	286	Vertical
2	81.55	-81.64	-53.07	-23.00	30.07	28.57	312	Vertical
3	162.475	-87.28	-54.58	-23.00	31.58	32.70	9	Vertical
4	271.675	-80.79	-50.61	-23.00	27.61	30.18	92	Vertical
5	314.575	-84.47	-52.95	-23.00	29.95	31.52	320	Vertical
6	630.475	-82.94	-43.69	-23.00	20.69	39.25	360	Vertical

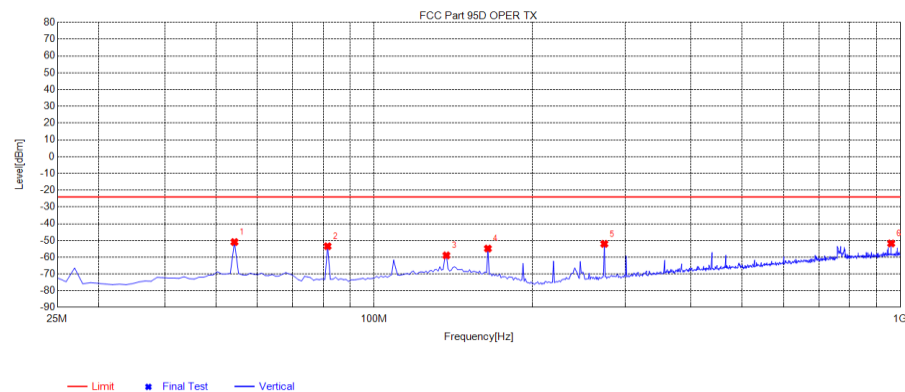
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Test Mode:	TX-CH40 by car charger DC 13.8V FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-90.79	-58.35	-23.00	35.35	32.44	301	Horizontal
2	81.55	-78.99	-52.54	-23.00	29.54	26.45	359	Horizontal
3	137.125	-88.32	-59.49	-23.00	36.49	28.83	158	Horizontal
4	273.625	-86.61	-53.43	-23.00	30.43	33.18	73	Horizontal
5	314.575	-83.66	-51.34	-23.00	28.34	32.32	48	Horizontal
6	960.025	-94.95	-50.71	-23.00	27.71	44.24	141	Horizontal

Test Mode:	TX-CH40 by car charger DC 13.8V 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	-81.44	-50.96	-23.00	27.96	30.48	312	Vertical
2	81.55	-82.01	-53.44	-23.00	30.44	28.57	312	Vertical
3	137.125	-93.13	-58.93	-23.00	35.93	34.20	135	Vertical
4	164.425	-87.29	-54.83	-23.00	31.83	32.46	360	Vertical
5	273.625	-82.35	-52.04	-23.00	29.04	30.31	93	Vertical
6	960.025	-95.71	-51.79	-23.00	28.79	43.92	110	Vertical

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Test Mode:	TX-CH1 by battery DC 11.1V AM	Polarity:	Horizontal
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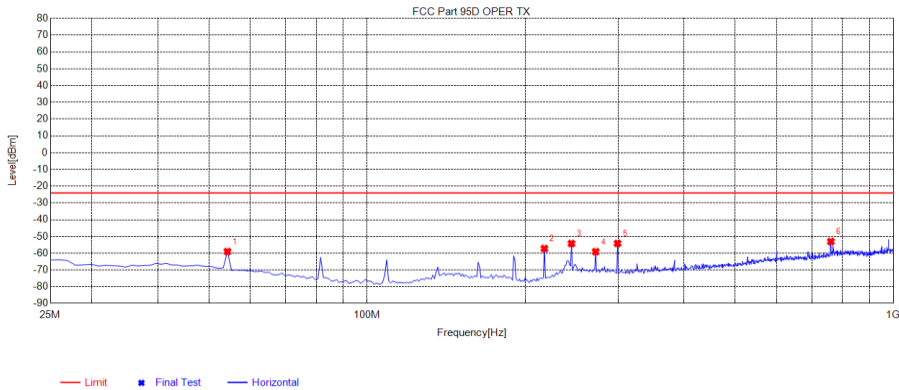
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-95.06	-62.34	-23.00	39.34	32.72	90	Horizontal
2	80.575	-89.64	-63.02	-23.00	40.02	26.62	60	Horizontal
3	215.125	-86.62	-58.34	-23.00	35.34	28.28	240	Horizontal
4	242.425	-84.68	-52.65	-23.00	29.65	32.03	340	Horizontal
5	296.05	-87.01	-54.74	-23.00	31.74	32.27	240	Horizontal
6	971.725	-96.01	-51.51	-23.00	28.51	44.50	70	Horizontal

Test Mode:	TX-CH1 by battery DC 11.1V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-88.92	-58.60	-23.00	35.60	30.32	340	Vertical
2	188.8	-86.19	-57.23	-23.00	34.23	28.96	70	Vertical
3	215.125	-78.89	-51.34	-23.00	28.34	27.55	70	Vertical
4	242.425	-71.58	-42.48	-23.00	19.48	29.10	240	Vertical
5	269.725	-87.26	-57.20	-23.00	34.20	30.06	190	Vertical
6	296.05	-86.32	-55.43	-23.00	32.43	30.89	140	Vertical

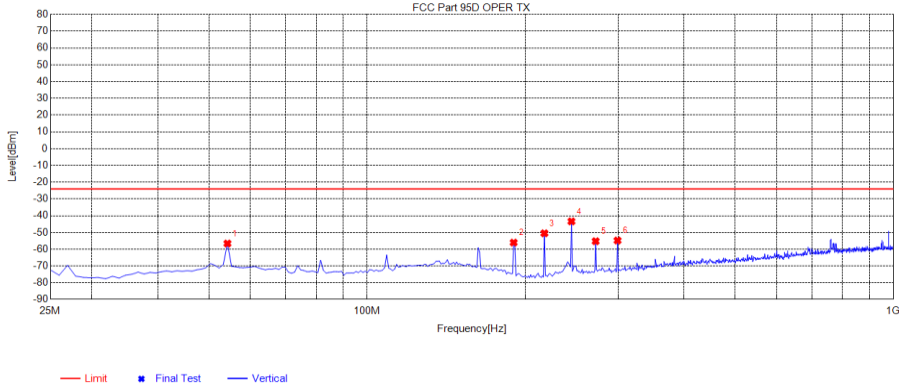
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Test Mode:	TX-CH20 by battery DC 11.1V AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-91.45	-59.01	-23.00	36.01	32.44	110	Horizontal
2	217.075	-85.64	-57.19	-23.00	34.19	28.45	80	Horizontal
3	244.375	-86.30	-54.23	-23.00	31.23	32.07	280	Horizontal
4	271.675	-92.14	-59.07	-23.00	36.07	33.07	100	Horizontal
5	298.975	-86.19	-54.15	-23.00	31.15	32.04	240	Horizontal
6	760.15	-95.13	-53.03	-23.00	30.03	42.10	300	Horizontal

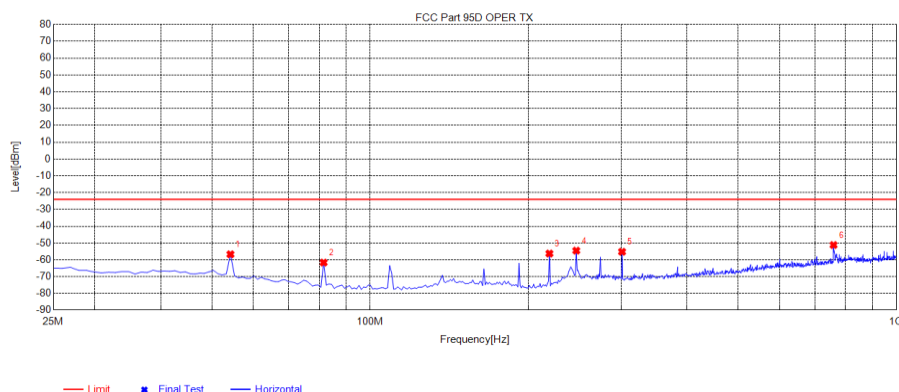
Test Mode:	TX-CH20 by battery DC 11.1V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-87.07	-56.59	-23.00	33.59	30.48	160	Vertical
2	189.775	-84.82	-56.03	-23.00	33.03	28.79	240	Vertical
3	217.075	-78.12	-50.49	-23.00	27.49	27.63	220	Vertical
4	244.375	-72.55	-43.41	-23.00	20.41	29.14	100	Vertical
5	271.675	-85.41	-55.23	-23.00	32.23	30.18	310	Vertical
6	298.975	-85.72	-54.80	-23.00	31.80	30.92	280	Vertical

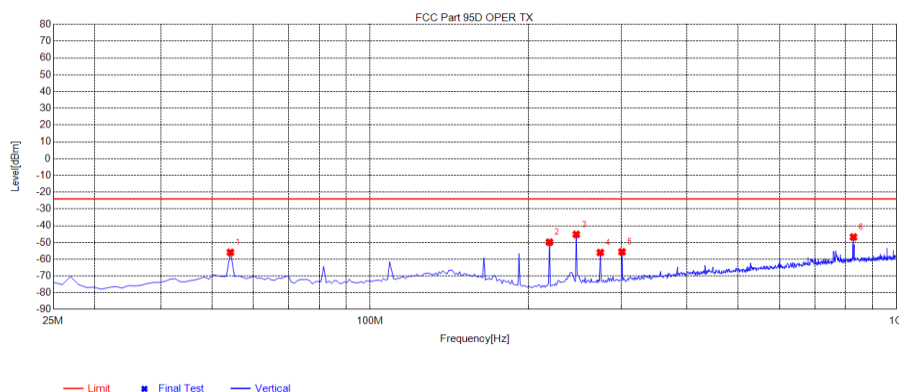
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Test Mode:	TX-CH40 by battery DC 11.1V AM	Polarity:	Horizontal
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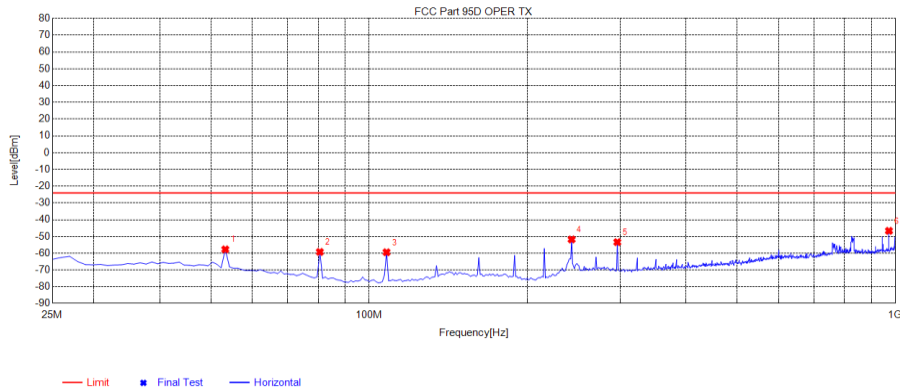
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.17	-56.73	-23.00	33.73	32.44	90	Horizontal
2	81.55	-88.09	-61.64	-23.00	38.64	26.45	130	Horizontal
3	219.025	-84.90	-56.27	-23.00	33.27	28.63	140	Horizontal
4	246.325	-86.67	-54.56	-23.00	31.56	32.11	70	Horizontal
5	300.925	-87.21	-55.23	-23.00	32.23	31.98	300	Horizontal
6	759.175	-93.27	-51.20	-23.00	28.20	42.07	40	Horizontal

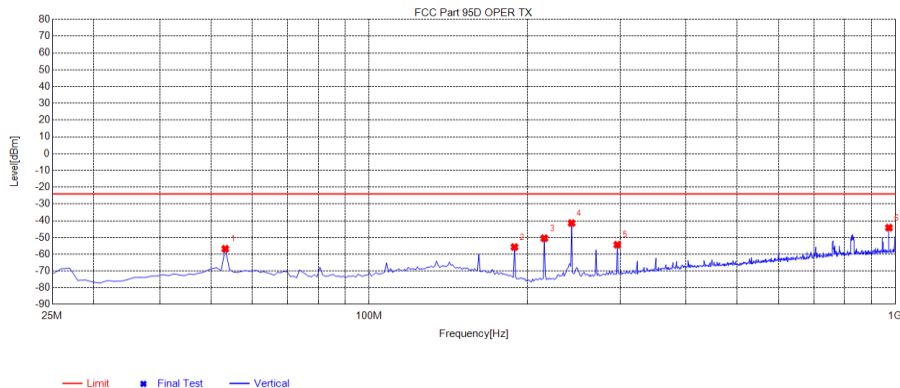
Test Mode:	TX-CH40 by battery DC 11.1V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.38	-55.90	-23.00	32.90	30.48	280	Vertical
2	219.025	-77.55	-49.85	-23.00	26.85	27.70	100	Vertical
3	246.325	-74.37	-45.20	-23.00	22.20	29.17	50	Vertical
4	273.625	-86.34	-56.03	-23.00	33.03	30.31	170	Vertical
5	300.925	-86.58	-55.61	-23.00	32.61	30.97	30	Vertical
6	828.4	-89.42	-46.78	-23.00	23.78	42.64	140	Vertical

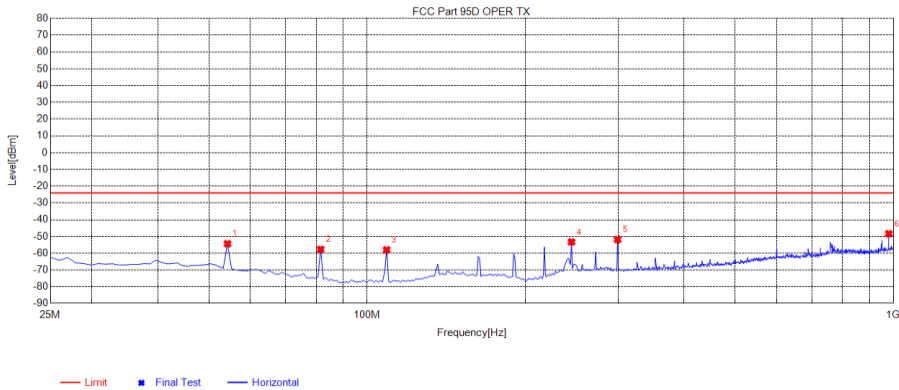
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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-CH1 by battery DC 11.1V FM				Polarity:		Horizontal	
<div></div>								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-90.44	-57.72	-23.00	34.72	32.72	105	Horizontal
2	80.575	-85.86	-59.24	-23.00	36.24	26.62	123	Horizontal
3	107.875	-84.40	-59.43	-23.00	36.43	24.97	202	Horizontal
4	242.425	-83.81	-51.78	-23.00	28.78	32.03	10	Horizontal
5	296.05	-85.66	-53.39	-23.00	30.39	32.27	36	Horizontal
6	971.725	-91.16	-46.66	-23.00	23.66	44.50	193	Horizontal

Test Mode:	TX-CH1 by battery DC 11.1V FM				Polarity:		Vertical	
<div></div>								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-87.08	-56.76	-23.00	33.76	30.32	300	Vertical
2	188.8	-84.69	-55.73	-23.00	32.73	28.96	214	Vertical
3	215.125	-78.03	-50.48	-23.00	27.48	27.55	308	Vertical
4	242.425	-70.51	-41.41	-23.00	18.41	29.10	282	Vertical
5	296.05	-85.23	-54.34	-23.00	31.34	30.89	359	Vertical
6	971.725	-88.22	-44.18	-23.00	21.18	44.04	206	Vertical

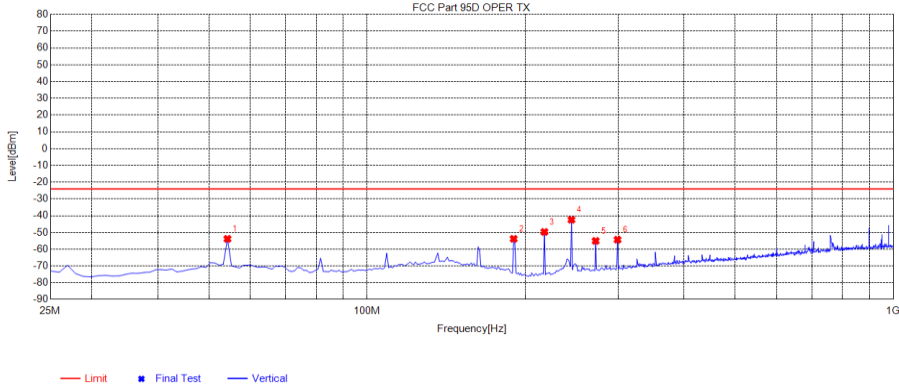
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Test Mode:	TX-CH20 by battery DC 11.1V FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.78	-54.34	-23.00	31.34	32.44	85	Horizontal
2	81.55	-84.14	-57.69	-23.00	34.69	26.45	144	Horizontal
3	108.85	-83.01	-57.99	-23.00	34.99	25.02	161	Horizontal
4	244.375	-85.35	-53.28	-23.00	30.28	32.07	9	Horizontal
5	298.975	-83.90	-51.86	-23.00	28.86	32.04	203	Horizontal
6	979.525	-93.06	-48.39	-23.00	25.39	44.67	194	Horizontal

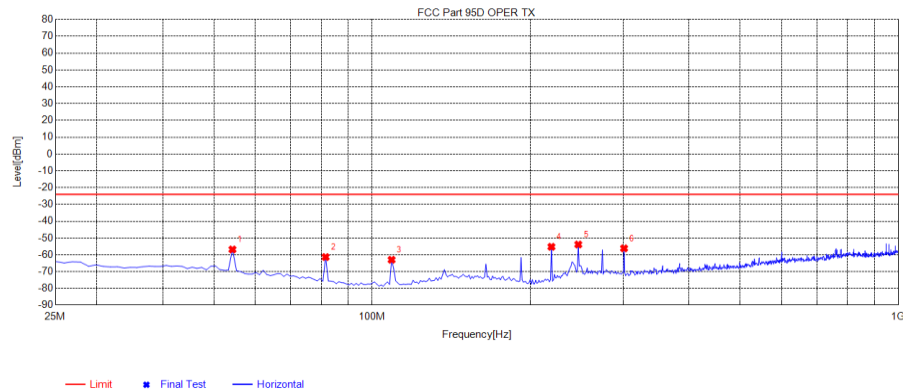
Test Mode:	TX-CH20 by battery DC 11.1V FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-84.32	-53.84	-23.00	30.84	30.48	152	Vertical
2	189.775	-82.59	-53.80	-23.00	30.80	28.79	194	Vertical
3	217.075	-77.33	-49.70	-23.00	26.70	27.63	320	Vertical
4	244.375	-71.58	-42.44	-23.00	19.44	29.14	303	Vertical
5	271.675	-85.23	-55.05	-23.00	32.05	30.18	303	Vertical
6	298.975	-85.24	-54.32	-23.00	31.32	30.92	25	Vertical

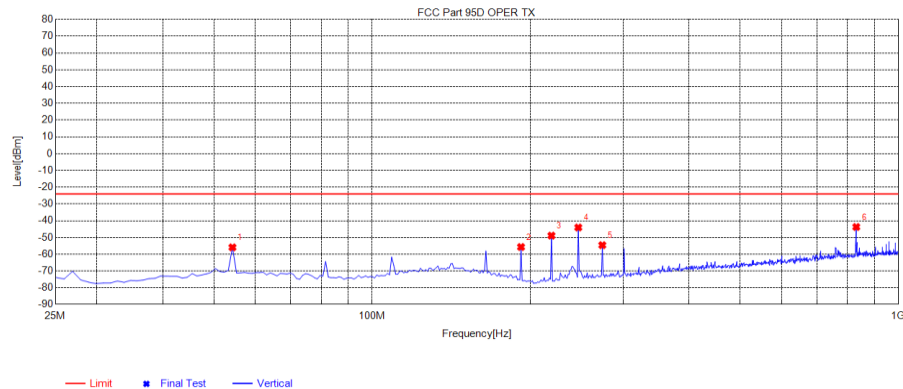
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Test Mode:	TX-CH40 by battery DC 11.1V FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-89.27	-56.83	-23.00	33.83	32.44	40	Horizontal
2	81.55	-87.79	-61.34	-23.00	38.34	26.45	130	Horizontal
3	108.85	-87.97	-62.95	-23.00	39.95	25.02	40	Horizontal
4	219.025	-83.87	-55.24	-23.00	32.24	28.63	150	Horizontal
5	246.325	-85.99	-53.88	-23.00	30.88	32.11	210	Horizontal
6	300.925	-88.14	-56.16	-23.00	33.16	31.98	240	Horizontal

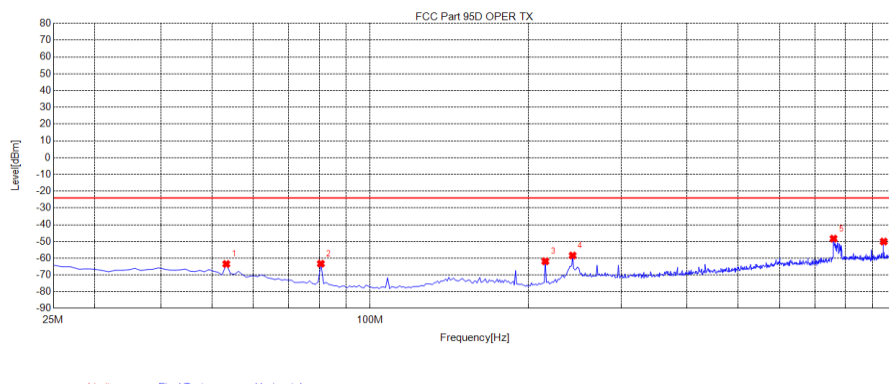
Test Mode:	TX-CH40 by battery DC 11.1V FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-86.39	-55.91	-23.00	32.91	30.48	280	Vertical
2	191.725	-84.13	-55.69	-23.00	32.69	28.44	300	Vertical
3	219.025	-76.62	-48.92	-23.00	25.92	27.70	200	Vertical
4	246.325	-73.22	-44.05	-23.00	21.05	29.17	330	Vertical
5	273.625	-84.90	-54.59	-23.00	31.59	30.31	200	Vertical
6	831.325	-86.41	-43.75	-23.00	20.75	42.66	210	Vertical

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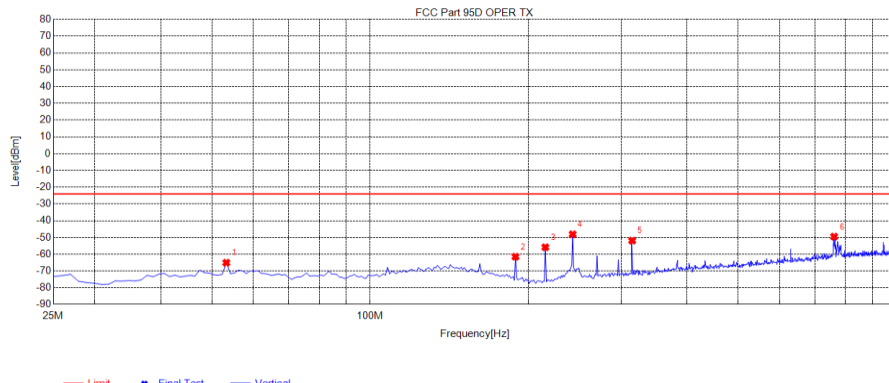
Test Mode:	TX-CH1 by battery DC 9.6V AM	Polarity:	Horizontal
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— Limit ■ Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-96.17	-63.45	-23.00	40.45	32.72	20	Horizontal
2	80.575	-89.89	-63.27	-23.00	40.27	26.62	190	Horizontal
3	215.125	-90.13	-61.85	-23.00	38.85	28.28	200	Horizontal
4	242.425	-90.43	-58.40	-23.00	35.40	32.03	270	Horizontal
5	759.175	-90.41	-48.34	-23.00	25.34	42.07	70	Horizontal
6	945.4	-93.99	-50.06	-23.00	27.06	43.93	320	Horizontal

Test Mode:	TX-CH1 by battery DC 9.6V AM	Polarity:	Vertical
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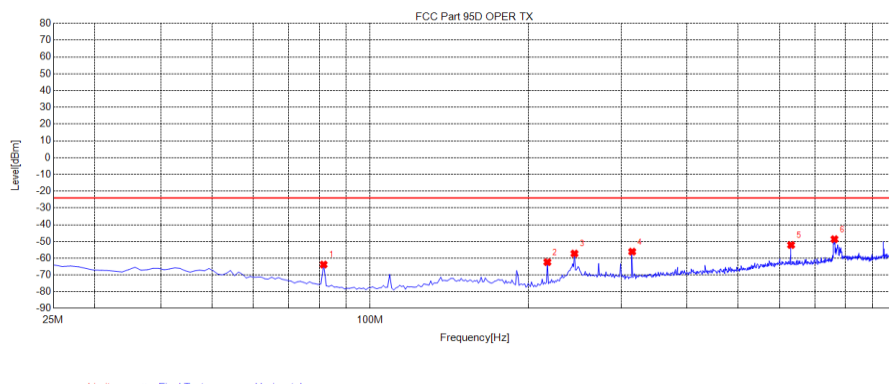


— Limit ■ Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	53.275	-95.40	-65.08	-23.00	42.08	30.32	290	Vertical
2	188.8	-90.46	-61.50	-23.00	38.50	28.96	10	Vertical
3	215.125	-83.40	-55.85	-23.00	32.85	27.55	180	Vertical
4	242.425	-77.22	-48.12	-23.00	25.12	29.10	10	Vertical
5	314.575	-83.41	-51.89	-23.00	28.89	31.52	280	Vertical
6	761.125	-91.16	-49.53	-23.00	26.53	41.63	190	Vertical

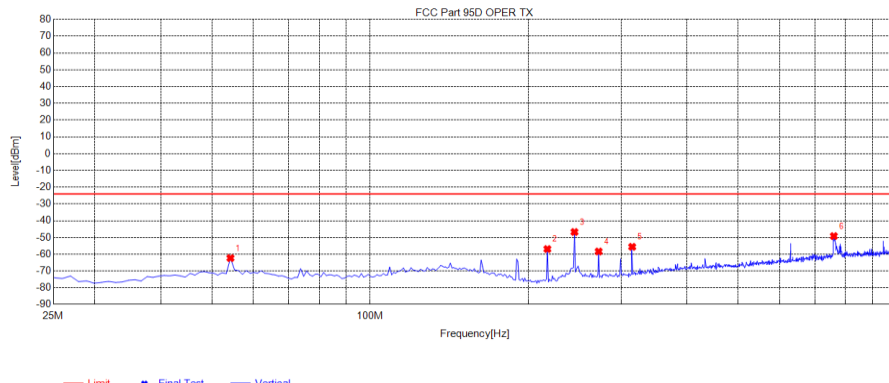
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Test Mode:	TX-CH20 by battery DC 9.6V AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	81.55	-90.24	-63.79	-23.00	40.79	26.45	290	Horizontal
2	217.075	-90.80	-62.35	-23.00	39.35	28.45	310	Horizontal
3	244.375	-89.30	-57.23	-23.00	34.23	32.07	120	Horizontal
4	314.575	-88.42	-56.10	-23.00	33.10	32.32	30	Horizontal
5	630.475	-92.05	-52.12	-23.00	29.12	39.93	30	Horizontal
6	762.1	-90.83	-48.66	-23.00	25.66	42.17	80	Horizontal

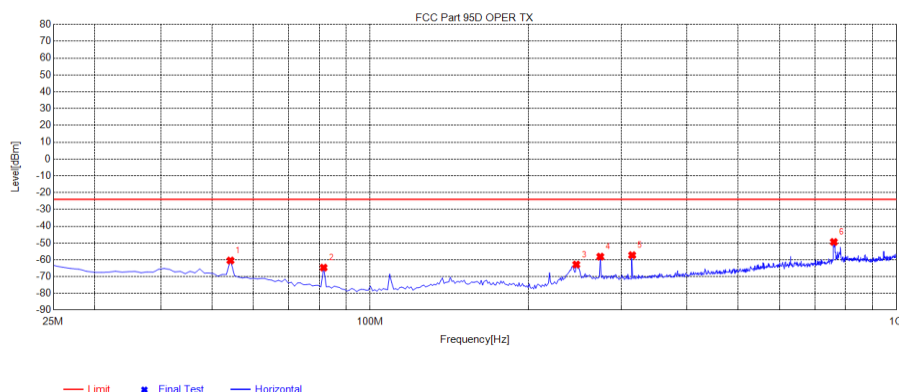
Test Mode:	TX-CH20 by battery DC 9.6V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-92.79	-62.31	-23.00	39.31	30.48	30	Vertical
2	217.075	-84.54	-56.91	-23.00	33.91	27.63	140	Vertical
3	244.375	-75.90	-46.76	-23.00	23.76	29.14	90	Vertical
4	271.675	-88.55	-58.37	-23.00	35.37	30.18	40	Vertical
5	314.575	-87.11	-55.59	-23.00	32.59	31.52	50	Vertical
6	760.15	-90.80	-49.19	-23.00	26.19	41.61	240	Vertical

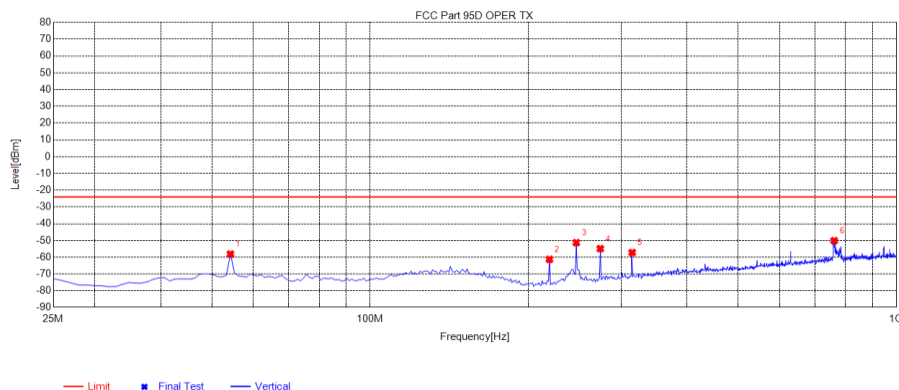
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Test Mode:	TX-CH40 by battery DC 9.6V AM	Polarity:	Horizontal
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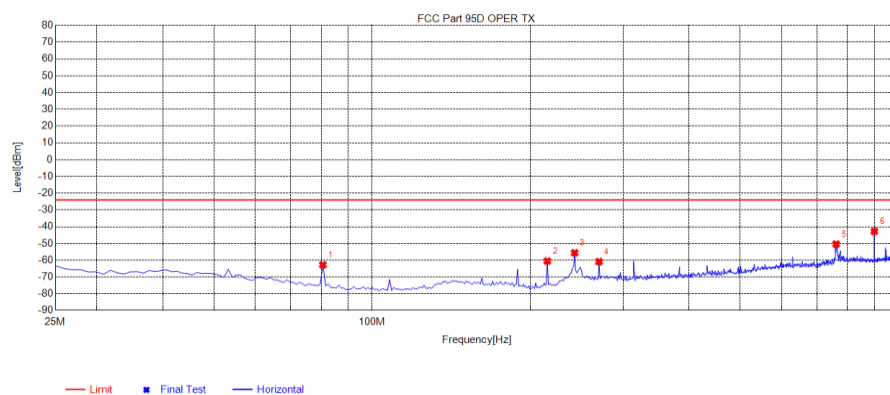
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-92.85	-60.41	-23.00	37.41	32.44	90	Horizontal
2	81.55	-91.10	-64.65	-23.00	41.65	26.45	110	Horizontal
3	246.325	-94.93	-62.82	-23.00	39.82	32.11	360	Horizontal
4	273.625	-91.31	-58.13	-23.00	35.13	33.18	50	Horizontal
5	314.575	-89.58	-57.26	-23.00	34.26	32.32	310	Horizontal
6	760.15	-91.48	-49.38	-23.00	26.38	42.10	330	Horizontal

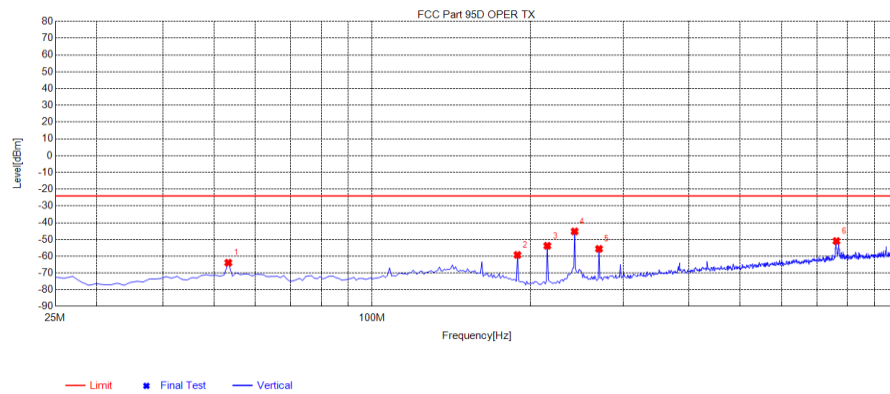
Test Mode:	TX-CH40 by battery DC 9.6V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-88.58	-58.10	-23.00	35.10	30.48	130	Vertical
2	219.025	-88.97	-61.27	-23.00	38.27	27.70	310	Vertical
3	246.325	-80.47	-51.30	-23.00	28.30	29.17	290	Vertical
4	273.625	-85.20	-54.89	-23.00	31.89	30.31	20	Vertical
5	314.575	-88.75	-57.23	-23.00	34.23	31.52	250	Vertical
6	761.125	-91.77	-50.14	-23.00	27.14	41.63	50	Vertical

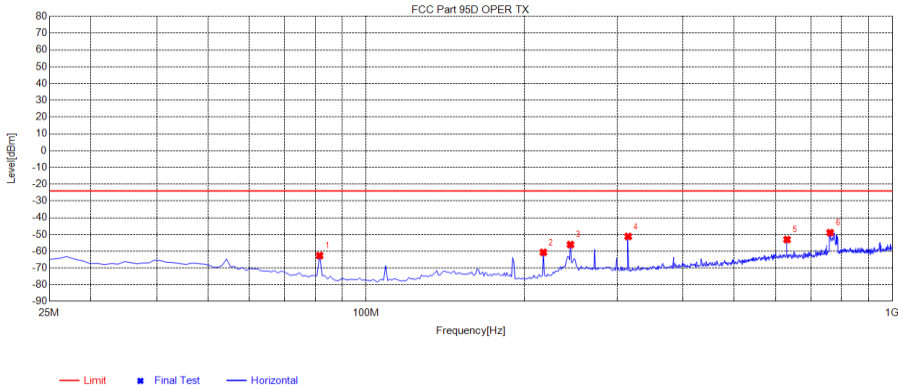
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Test Mode:	TX-CH1 by battery DC 9.6V FM				Polarity:			Horizontal	
									
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity	
1	80.575	-89.40	-62.78	-23.00	39.78	26.62	180	Horizontal	
2	215.125	-88.82	-60.54	-23.00	37.54	28.28	250	Horizontal	
3	242.425	-87.64	-55.61	-23.00	32.61	32.03	300	Horizontal	
4	269.725	-93.81	-60.85	-23.00	37.85	32.96	170	Horizontal	
5	761.125	-92.54	-50.40	-23.00	27.40	42.14	70	Horizontal	
6	899.575	-85.75	-42.81	-23.00	19.81	42.94	350	Horizontal	

Test Mode:	TX-CH1 by battery DC 9.6V FM				Polarity:			Vertical	
									
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity	
1	53.275	-94.21	-63.89	-23.00	40.89	30.32	10	Vertical	
2	188.8	-88.18	-59.22	-23.00	36.22	28.96	330	Vertical	
3	215.125	-81.34	-53.79	-23.00	30.79	27.55	180	Vertical	
4	242.425	-74.32	-45.22	-23.00	22.22	29.10	0	Vertical	
5	269.725	-85.68	-55.62	-23.00	32.62	30.06	60	Vertical	
6	762.1	-92.61	-50.96	-23.00	27.96	41.65	210	Vertical	

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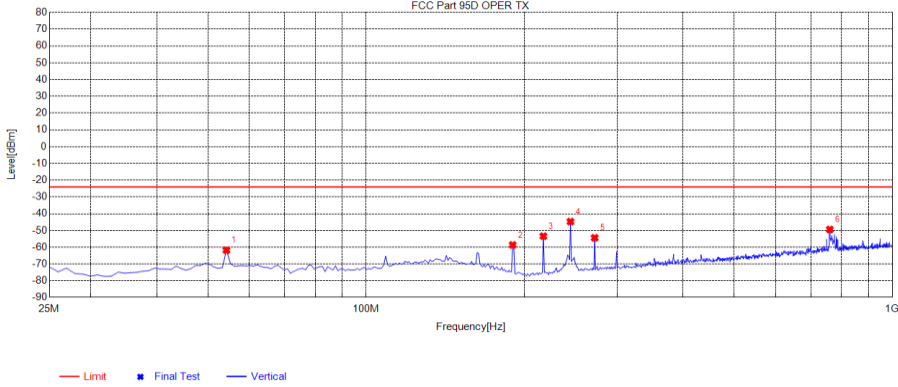
Test Mode:	TX-CH20 by battery DC 9.6V FM	Polarity:	Horizontal
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— Limit ■ Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	81.55	-89.09	-62.64	-23.00	39.64	26.45	350	Horizontal
2	217.075	-89.12	-60.67	-23.00	37.67	28.45	60	Horizontal
3	244.375	-88.12	-56.05	-23.00	33.05	32.07	200	Horizontal
4	314.575	-83.52	-51.20	-23.00	28.20	32.32	190	Horizontal
5	630.475	-93.00	-53.07	-23.00	30.07	39.93	240	Horizontal
6	761.125	-91.07	-48.93	-23.00	25.93	42.14	260	Horizontal

Test Mode:	TX-CH20 by battery DC 9.6V FM	Polarity:	Vertical
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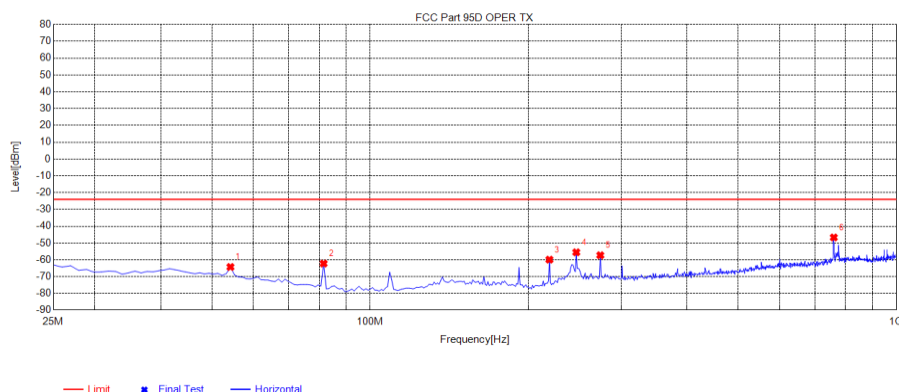


— Limit ■ Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-92.28	-61.80	-23.00	38.80	30.48	190	Vertical
2	189.775	-87.43	-58.64	-23.00	35.64	28.79	270	Vertical
3	217.075	-81.02	-53.39	-23.00	30.39	27.63	60	Vertical
4	244.375	-73.86	-44.72	-23.00	21.72	29.14	320	Vertical
5	271.675	-84.57	-54.39	-23.00	31.39	30.18	290	Vertical
6	760.15	-91.04	-49.43	-23.00	26.43	41.61	160	Vertical

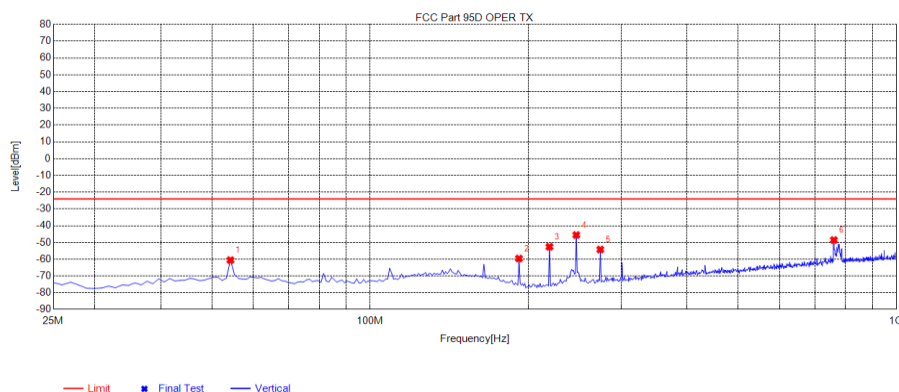
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Test Mode:	TX-CH40 by battery DC 9.6V FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-96.71	-64.27	-23.00	41.27	32.44	230	Horizontal
2	81.55	-88.68	-62.23	-23.00	39.23	26.45	40	Horizontal
3	219.025	-88.53	-59.90	-23.00	36.90	28.63	220	Horizontal
4	246.325	-87.66	-55.55	-23.00	32.55	32.11	340	Horizontal
5	273.625	-90.48	-57.30	-23.00	34.30	33.18	290	Horizontal
6	760.15	-88.80	-46.70	-23.00	23.70	42.10	150	Horizontal

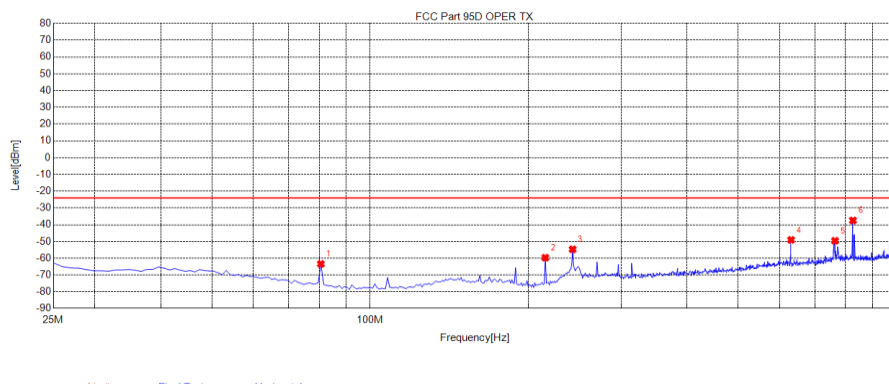
Test Mode:	TX-CH40 by battery DC 9.6V FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-91.02	-60.54	-23.00	37.54	30.48	320	Vertical
2	191.725	-88.03	-59.59	-23.00	36.59	28.44	100	Vertical
3	219.025	-80.29	-52.59	-23.00	29.59	27.70	330	Vertical
4	246.325	-74.73	-45.56	-23.00	22.56	29.17	140	Vertical
5	273.625	-84.53	-54.22	-23.00	31.22	30.31	240	Vertical
6	760.15	-90.19	-48.58	-23.00	25.58	41.61	170	Vertical

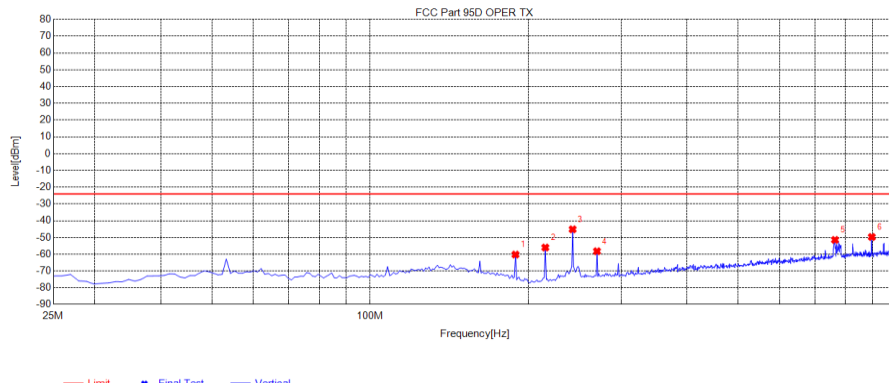
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Test Mode:	TX-CH1 by battery DC 9V AM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	80.575	-90.05	-63.43	-23.00	40.43	26.62	320	Horizontal
2	215.125	-87.98	-59.70	-23.00	36.70	28.28	200	Horizontal
3	242.425	-86.73	-54.70	-23.00	31.70	32.03	270	Horizontal
4	630.475	-89.01	-49.08	-23.00	26.08	39.93	100	Horizontal
5	764.05	-91.85	-49.62	-23.00	26.62	42.23	210	Horizontal
6	826.45	-80.77	-37.48	-23.00	14.48	43.29	110	Horizontal

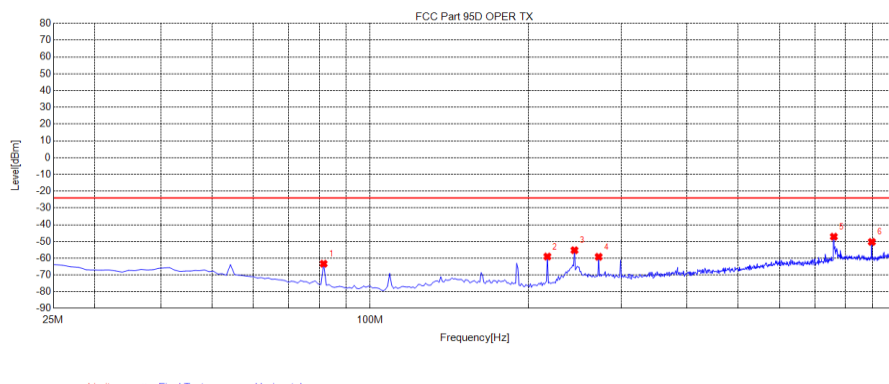
Test Mode:	TX-CH1 by battery DC 9V AM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	188.8	-89.17	-60.21	-23.00	37.21	28.96	310	Vertical
2	215.125	-83.56	-56.01	-23.00	33.01	27.55	0	Vertical
3	242.425	-74.27	-45.17	-23.00	22.17	29.10	190	Vertical
4	269.725	-88.29	-58.23	-23.00	35.23	30.06	140	Vertical
5	764.05	-93.15	-51.46	-23.00	28.46	41.69	310	Vertical
6	897.625	-93.02	-49.73	-23.00	26.73	43.29	340	Vertical

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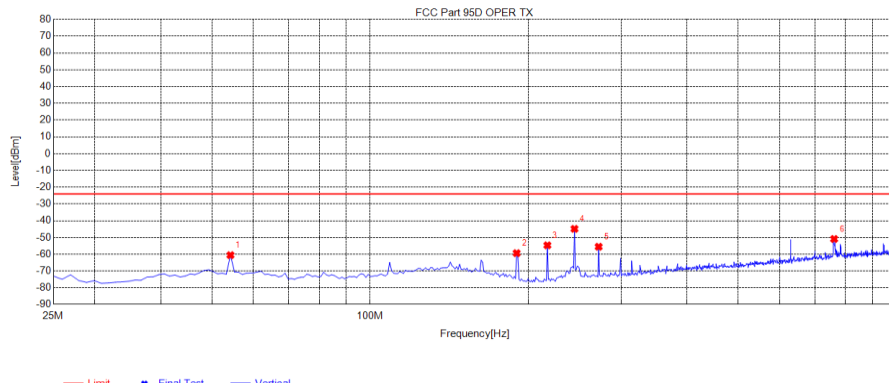
Test Mode:	TX-CH20 by battery DC 9V AM	Polarity:	Horizontal
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Legend: — Limit ■ Final Test — Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	81.55	-89.75	-63.30	-23.00	40.30	26.45	340	Horizontal
2	217.075	-87.44	-58.99	-23.00	35.99	28.45	130	Horizontal
3	244.375	-87.30	-55.23	-23.00	32.23	32.07	50	Horizontal
4	271.675	-92.22	-59.15	-23.00	36.15	33.07	290	Horizontal
5	760.15	-89.26	-47.16	-23.00	24.16	42.10	120	Horizontal
6	897.625	-93.22	-50.27	-23.00	27.27	42.95	90	Horizontal

Test Mode:	TX-CH20 by battery DC 9V AM	Polarity:	Vertical
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Legend: — Limit ■ Final Test — Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	54.25	-91.05	-60.57	-23.00	37.57	30.48	20	Vertical
2	189.775	-88.16	-59.37	-23.00	36.37	28.79	150	Vertical
3	217.075	-82.31	-54.68	-23.00	31.68	27.63	190	Vertical
4	244.375	-74.03	-44.89	-23.00	21.89	29.14	100	Vertical
5	271.675	-85.72	-55.54	-23.00	32.54	30.18	260	Vertical
6	761.125	-92.55	-50.92	-23.00	27.92	41.63	10	Vertical

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