



TESTING LABORATORY  
CERTIFICATE # 4821.01



# FCC PART 73


## TEST REPORT

For

### Congress Network Corporation

7235 NW 19th CT , Hollywood , Florida 33024 , United States

**FCC ID: 2ABY4T588**

<b>Report Type:</b> Original Report	<b>Product Type:</b> T-588
<b>Report Number:</b> <u>SZ1210520-18393E-00</u>	
<b>Report Date:</b> <u>2021-07-28</u>	
<b>Reviewed By:</b> <u>RF Engineer</u>	Jacob Kong 
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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	T-588
Model	T-588
Frequency Range	88.1~107.9MHz
Rated Power	2W
Voltage Range	DC 15V from adapter
Date of Test	2021-06-15 to 2021-07-28
Sample serial number	SZ1210520-18393E-RF- S_6SN (Assigned by BAACL, Shenzhen)
Received date	2021-05-20
Sample/EUT Status	Good condition
Adapter Information	Model No: WT24-1501000-T Input: 100-240V~50/60Hz 1.6A Output: 15.0V, 1.0A 15.0W

### Objective

This test report is prepared in accordance with Part 2 and Part 73 of the Federal Communication Commissions rules.

### Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, subpart J and Part 73-Radio Broadcast Services

Applicable Standards: ANSI 63.26-2015.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement uncertainty with radiated emission is 5.91 dB for 30MHz-1GHz.and 4.92 dB for above 1GHz, 1.95dB for conducted measurement.

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in a test mode which has been done in the factory.

### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

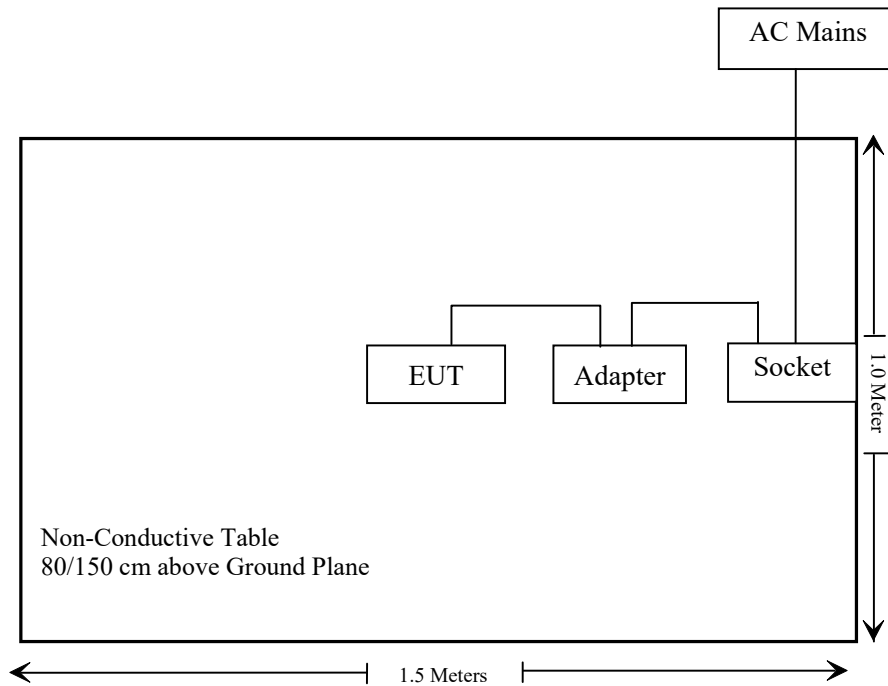
Manufacturer	Description	Model	Serial Number
/	/	/	/

### External I/O Cable

Cable Description	Length (m)	From / Port	To
Un-shielding Un-Detachable AC Cable	1.1	Adapter	Socket
Un-shielding Un-Detachable DC Cable	1.4	Adapter	EUT

### Block Diagram of Test Setup

For Conducted Emission



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Results</b>
§1.1307 (b)(1), §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§2.1046; §73.811; §73.267; §73.840	Operating Power	Compliance
§2.1047; §73.801; §73.1570	Modulation Characteristics	Compliance
§2.1049; §73.317; §73.845; §73.1590	Occupied Bandwidth Emission	Compliance
§2.1051; §73.317(d); §73.845; §73.1590	Spurious Emission at Antenna Terminal	Compliance
§2.1053; §73.317; §73.845; §73.1590	Spurious Radiated Emissions	Compliance
§2.1055; §73.1545	Carrier Frequency Departure Tolerances	Compliance

**FCC§1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

**Applicable Standard**

According to subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

**FCC Limits for Maximum Permissible Exposure (MPE)**

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

\*f = frequency in MHz

\*Plane-wave equivalent power density

**Result**

**Calculated Formulary:**

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency (MHz)	Antenna Gain		Tune-up Conducted Power (mW)	MPE Limit (mW/cm <sup>2</sup> )	The Minimum Distance (cm)
	(dBi)	(numeric)			
88.1-107.9	3	2	2000	0.2	40

Note: To maintain compliance with the FCC’s RF exposure guidelines, place the equipment at least 40cm from nearby persons.

**Result: Compliance**

**TEST EQUIPMENT LIST**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Radiated Emission Test</b>					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
COM-POWER	Dipole Antenna	AD-100	721027	NCR	NCR
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 1	F-03-EM236	2020/11/29	2021/11/28
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
A.H.System	Horn Antenna	SAS-200/571	135	2018/09/01	2021/08/31
Agilent	Signal Generator	N5183A	MY51040755	2020/12/29	2021/12/28
<b>RF Conducted Test</b>					
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2021/04/02	2022/04/01
HP Agilent	RF Communication test set	8920B	3325U00859	2020/08/04	2021/08/03
Unknown	30dB Attenuator	50FH-030-100 RF	1.7000672E11	2020/11/29	2021/11/28
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2020/07/23	2021/07/22
ESPEC	Temperature & Humidity Chamber	EL-10KA	9107726	2021/01/06	2022/01/05

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

**FCC §2.1046 & §73.811 & §73.267 and §73.840 - OPERATING POWER**

**Applicable Standard**

FCC §2.1046, §73.811, §73.267 and §73.840

The transmitter power output (TPO) of an LPFM station must be determined by the procedures set forth in §73.267 of this part. The operating TPO of an LPFM station with an authorized TPO of more than ten watts must be maintained as near as practicable to its authorized TPO and may not be less than 90% of the minimum TPO nor greater than 105% of the maximum authorized TPO. An LPFM station with an authorized TPO of ten watts or less may operate with less than the authorized power, but not more than 105% of the authorized power.

**Test Procedure**

Conducted RF Output Power:

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Spectrum Analyzer Setting:

R B/W      Video B/W  
 100 kHz    300 kHz

**Test Data**

**Environmental Conditions**

<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	57 %
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Zero Yan on 2021-07-14.*

*Test Mode: Transmitting*

**Test Result:** Compliance. Please refer to following table.

Frequency	Output Power (dBm)	Output Power (W)	Manufacturer's Rate Power (W)
88.1	32.28	1.690	2
98.1	32.20	1.660	
107.9	32.98	1.986	

Limit: ≤2.1W



**FCC §2.1047 & §73.801 & §73.1570- MODULATION CHARACTERISTICS****Applicable Standard**

FCC §2.1047, §73.801 and §73.1570

(b) Maximum modulation levels must meet the following limitations:

(2) FM stations. The total modulation must not exceed 100 percent on peaks of frequent reoccurrence referenced to 75 kHz deviation. However, stations providing subsidiary communications services using subcarriers under provisions of §73.319 concurrently with the broadcasting of stereophonic or monophonic programs may increase the peak modulation deviation as follows:

(i) The total peak modulation may be increased 0.5 percent for each 1.0 percent subcarrier injection modulation.

(ii) In no event may the modulation of the carrier exceed 110 percent (82.5 kHz peak deviation).

**Test Procedure**

C63.26-2015 §5.3

**Test Data****Environmental Conditions**

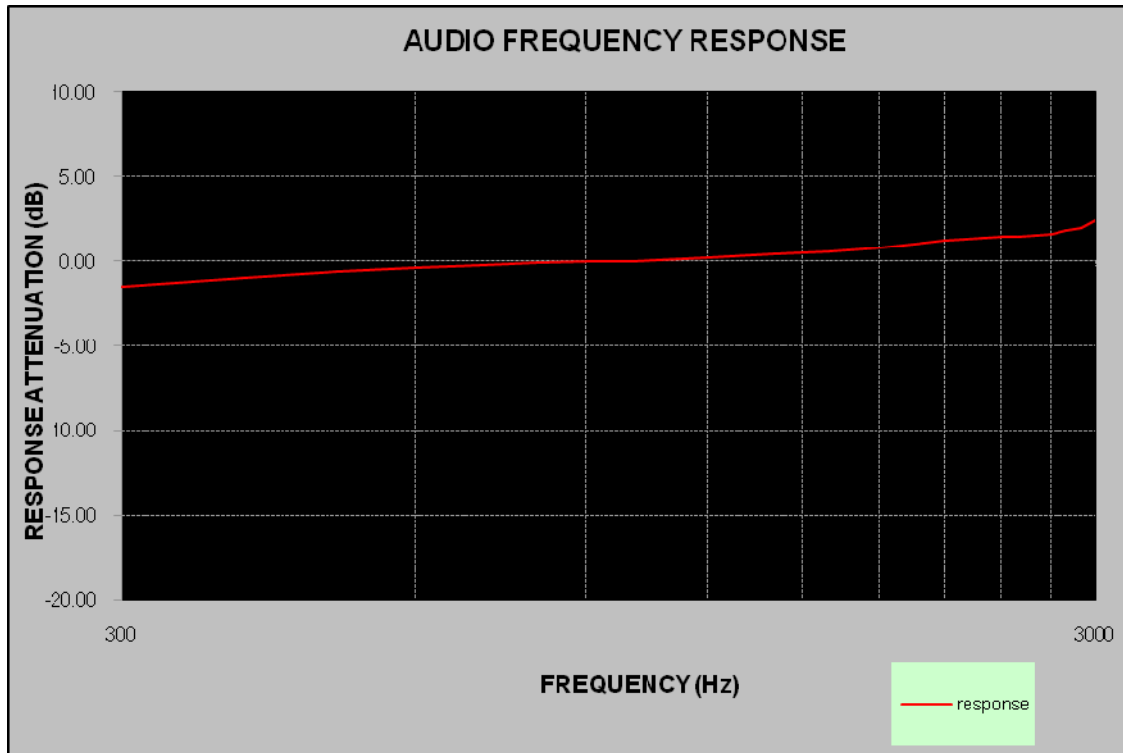
<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	57%
<b>ATM Pressure:</b>	100.5 kPa

*The testing was performed by Zero Yan from 2021-06-15 to 2021-07-28.*

Result: Please refer to the following plots.

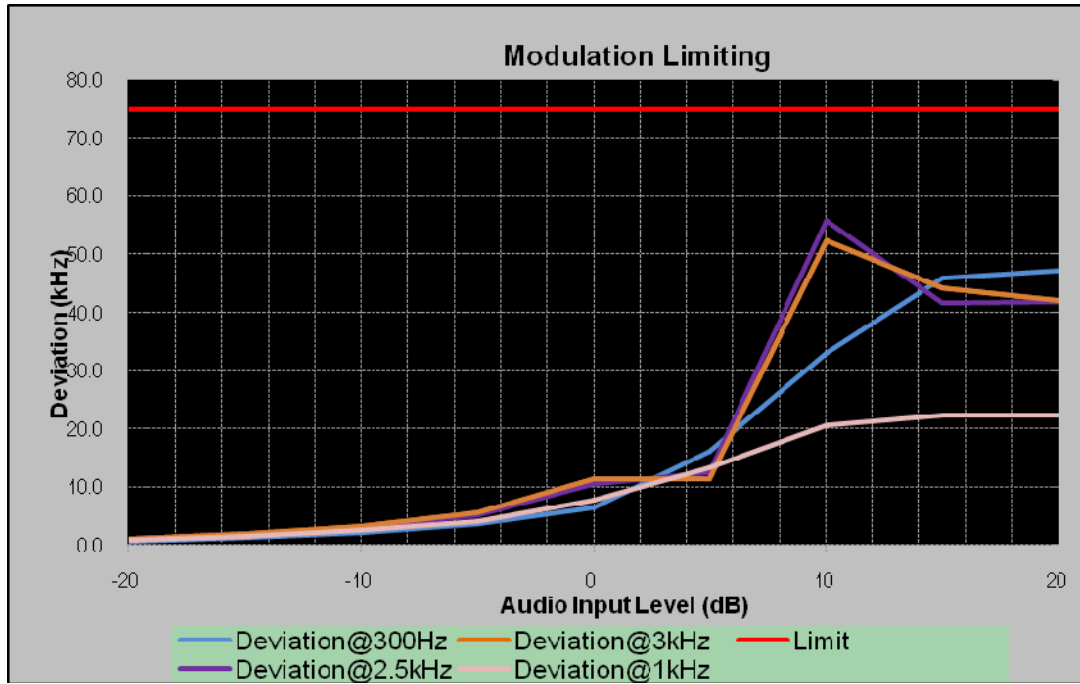
**Audio Frequency Response, Carrier frequency: 88.1MHz**

<b>Audio Frequency (Hz)</b>	<b>Response Attenuation (dB)</b>
300	-1.52
400	-0.95
500	-0.59
600	-0.38
700	-0.27
800	-0.12
900	-0.06
1000	0.00
1200	0.21
1400	0.40
1600	0.54
1800	0.80
2000	1.06
2100	1.24
2200	1.32
2300	1.37
2400	1.43
2500	1.45
2600	1.55
2700	1.63
2800	1.81
2900	1.95
3000	2.39



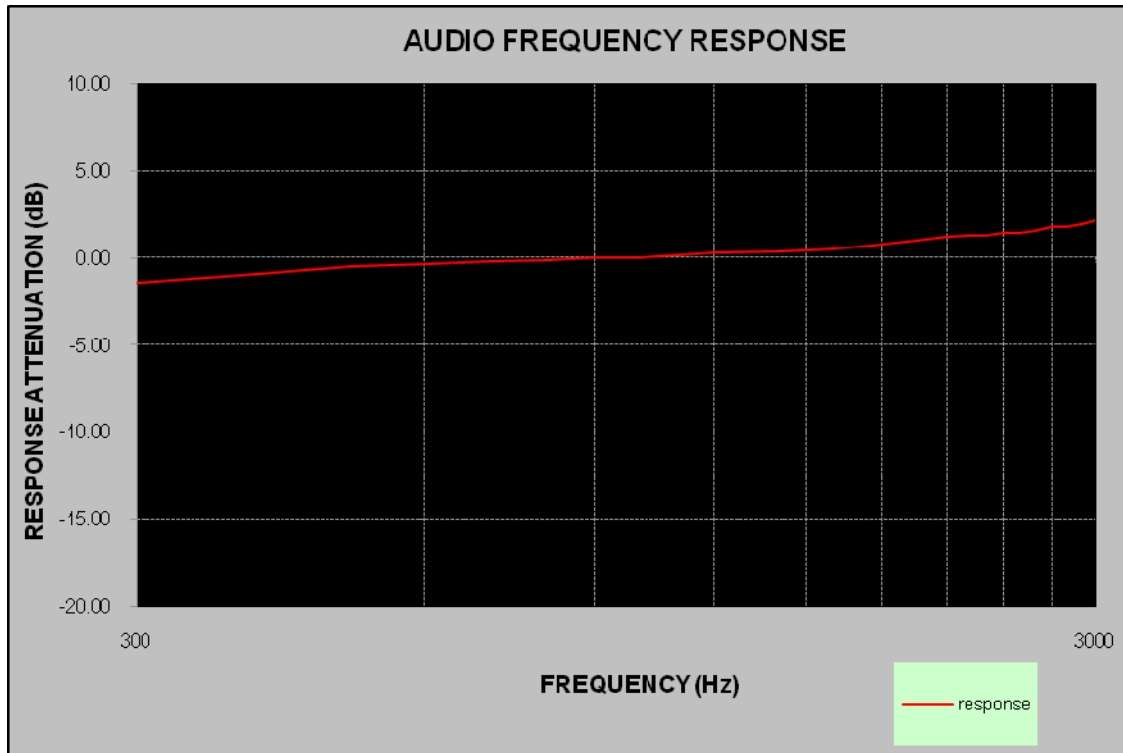
**Modulation Limiting Maximum Deviation, Carrier frequency: 88.1MHz**

Audio Input Level (dB)	Instantaneous				FCC Limit [kHz]
	DEVIATION (@300Hz) [kHz]	DEVIATION (@1kHz) [kHz]	DEVIATION (@2.5kHz) [kHz]	DEVIATION (@3kHz) [kHz]	
-20	0.719	0.866	1.023	1.109	75.000
-15	1.230	1.465	1.751	1.903	75.000
-10	2.107	2.504	2.952	3.222	75.000
-5	3.681	4.153	5.215	5.534	75.000
0	6.458	7.809	10.450	11.390	75.000
5	16.170	13.360	12.510	11.470	75.000
10	33.120	20.510	55.740	52.470	75.000
15	45.860	22.230	41.710	44.130	75.000
20	47.240	22.350	41.790	42.030	75.000



**Audio Frequency Response, Carrier frequency: 98.1MHz**

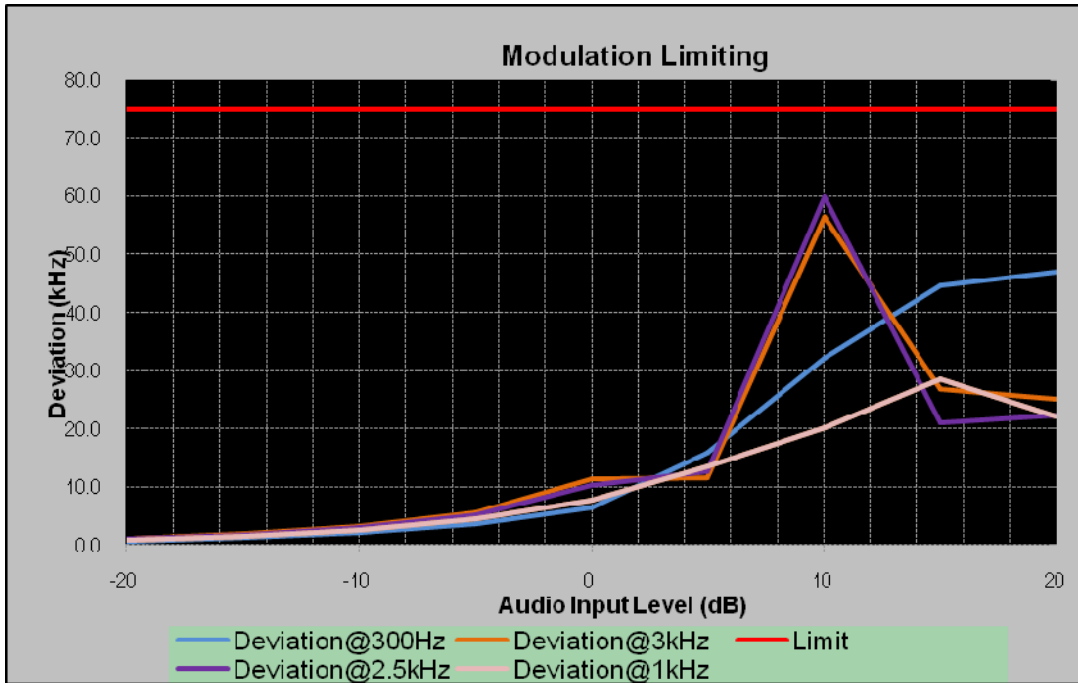
<b>Audio Frequency (Hz)</b>	<b>Response Attenuation (dB)</b>
300	-1.47
400	-0.96
500	-0.55
600	-0.37
700	-0.24
800	-0.13
900	-0.03
1000	0.00
1200	0.25
1400	0.34
1600	0.52
1800	0.80
2000	1.08
2100	1.23
2200	1.26
2300	1.31
2400	1.41
2500	1.42
2600	1.53
2700	1.77
2800	1.80
2900	1.95
3000	2.14



**Modulation Limiting Maximum Deviation, Carrier frequency: 98.1MHz**

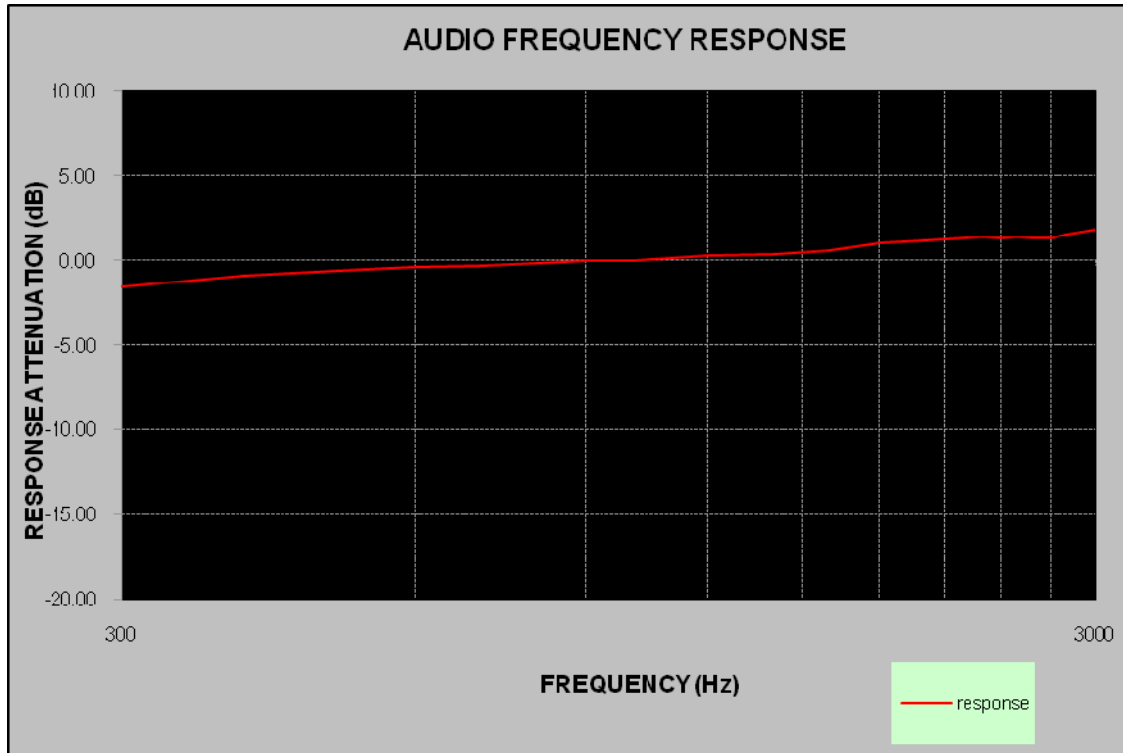
Audio Input Level (dB)	Instantaneous				FCC Limit [kHz]
	DEVIATION (@300Hz) [kHz]	DEVIATION (@1kHz) [kHz]	DEVIATION (@2.5kHz) [kHz]	DEVIATION (@3kHz) [kHz]	
-20	0.714	0.876	1.048	1.105	75.000
-15	1.213	1.482	1.761	1.921	75.000
-10	2.101	2.502	2.946	3.189	75.000
-5	3.665	4.395	5.227	5.524	75.000
0	6.419	7.781	10.360	11.360	75.000
5	15.960	13.590	12.590	11.680	75.000
10	32.100	20.240	59.900	56.520	75.000
15	44.690	28.440	21.110	26.910	75.000
20	47.090	22.110	22.380	25.200	75.000





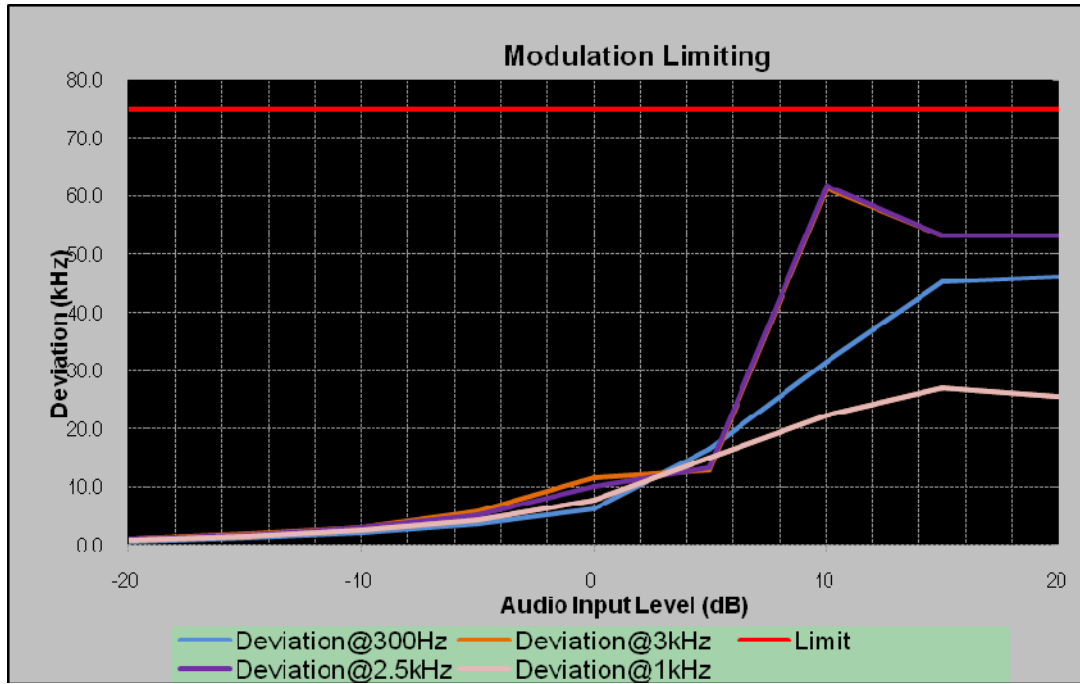
**Audio Frequency Response, Carrier frequency: 107.9MHz**

<b>Audio Frequency (Hz)</b>	<b>Response Attenuation (dB)</b>
300	-1.59
400	-0.89
500	-0.64
600	-0.42
700	-0.30
800	-0.19
900	-0.05
1000	0.00
1200	0.26
1400	0.38
1600	0.57
1800	0.99
2000	1.17
2100	1.24
2200	1.28
2300	1.35
2400	1.34
2500	1.37
2600	1.31
2700	1.32
2800	1.50
2900	1.66
3000	1.78



**Modulation Limiting Maximum Deviation, Carrier frequency: 107.9MHz**

Audio Input Level (dB)	Instantaneous				FCC Limit [kHz]
	DEVIATION (@300Hz) [kHz]	DEVIATION (@1kHz) [kHz]	DEVIATION (@2.5kHz) [kHz]	DEVIATION (@3kHz) [kHz]	
-20	0.729	0.867	1.011	1.121	75.000
-15	1.261	1.515	1.741	1.857	75.000
-10	2.093	2.522	2.894	3.083	75.000
-5	3.607	4.347	5.088	5.766	75.000
0	6.313	7.625	10.150	11.680	75.000
5	16.520	14.930	13.220	12.770	75.000
10	31.590	22.340	61.800	61.290	75.000
15	45.280	27.020	53.220	53.290	75.000
20	46.090	25.480	53.240	53.260	75.000



## **FCC §2.1049 & §73.845 & §73.1590 & §73.317 – OCCUPIED BANDWIDTH AND EMISSIONS MASK**

### **Applicable Standard**

FCC §2.1049, §73.845, §73.1590, §73.317

Measurements for spurious and harmonic emissions must be made to show compliance with the transmission system requirements of §73.44 for AM stations; §73.317 for FM stations and §73.687 for TV stations. Measurements must be made under all conditions of modulation expected to be encountered by the station whether transmitting monophonic or stereophonic programs and providing subsidiary communications services.

- (b) Any emission appearing on a frequency removed from the carrier by between 120 kHz and 240 kHz inclusive must be attenuated at least 25 dB below the level of the unmodulated carrier. Compliance with this requirement will be deemed to show the occupied bandwidth to be 240 kHz or less.
- (c) Any emission appearing on a frequency removed from the carrier by more than 240 kHz and up to and including 600 kHz must be attenuated at least 35 dB below the level of the unmodulated carrier.
- (d) Any emission appearing on a frequency removed from the carrier by more than 600 kHz must be attenuated at least  $43 + 10 \text{ Log}_{10}$  (Power, in watts) dB below the level of the unmodulated carrier, or 80 dB, whichever is the lesser attenuation.

### **Test Procedure**

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 3 kHz.

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	57 %
<b>ATM Pressure:</b>	101.0kPa

*The testing was performed by Zero Yan on 2021-07-14.*

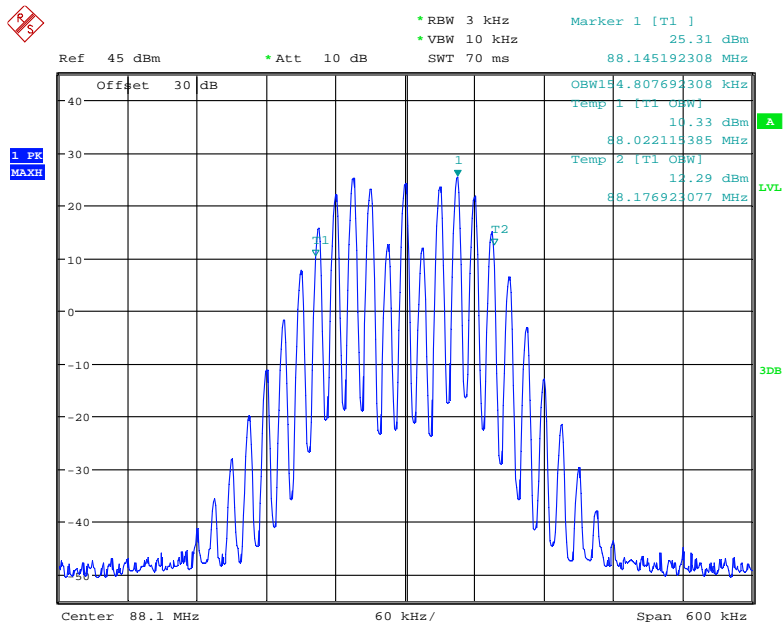
*Test Mode: Transmitting*

<b>Mode</b>	<b>Frequency (MHz)</b>	<b>99% Occupied Bandwidth (kHz)</b>
FM	88.1	154.81
FM	98.1	167.31
FM	107.9	167.31

*Note: Emission designator is base on calculation instead of measurement.  
Emission Designator Per CFR 47 §2.201& §2.202&,  $B_n = 2M + 2D$*

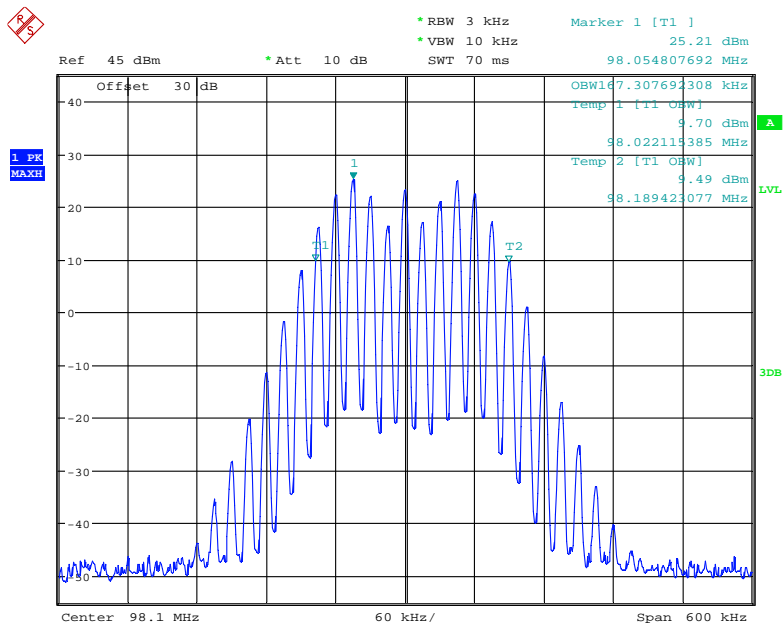
*Emission Designator 180KF3E. In this case, the maximum modulating frequency is 15 kHz with a 75 kHz deviation.  $BW = 2(M+D) = 2*(15kHz + 75 kHz) = 180kHz \rightarrow 180K$   
F3E portion of the designator represents an FM voice transmission Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 180KF3E.*

### 88.1 MHz, Occupied Bandwidth



Date: 14.JUL.2021 15:33:50

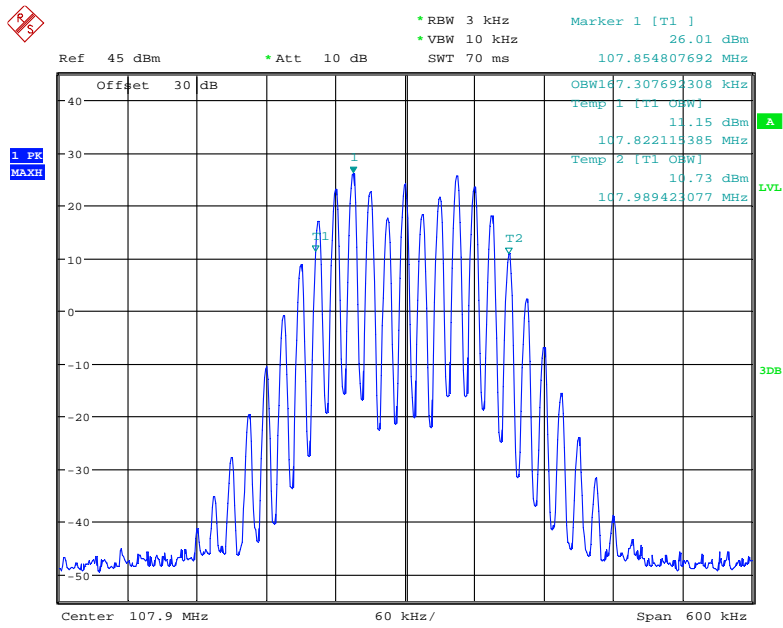
### 98.1 MHz, Occupied Bandwidth



Date: 14.JUL.2021 15:46:23

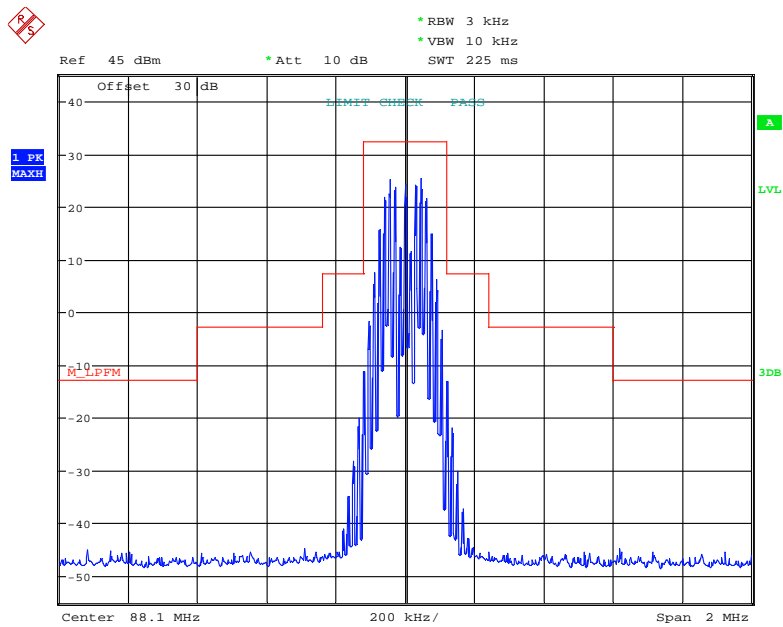


### 107.9 MHz, Occupied Bandwidth



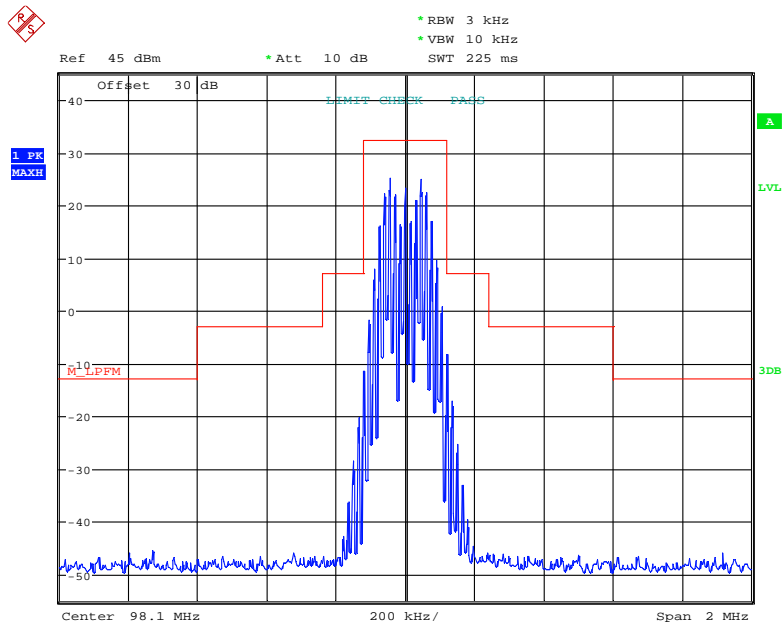
Date: 14.JUL.2021 14:52:02

### 88.1 MHz, Emission Mask



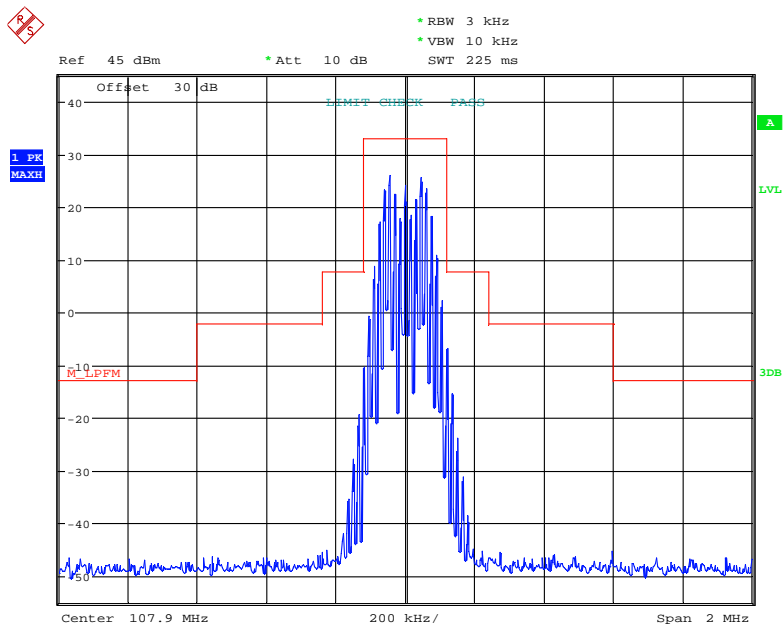
Date: 14.JUL.2021 16:28:09

### 98.1 MHz, Emission Mask



Date: 14.JUL.2021 16:29:56

### 107.9 MHz, Emission Mask



Date: 14.JUL.2021 16:21:28

## FCC §2.1051 & §73.845 & §73.1590 & §73.317 (d) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### Applicable Standard

FCC §2.1051, §73.845, §73.1590, §73.317 (d)

Measurements for spurious and harmonic emissions must be made to show compliance with the transmission system requirements of §73.44 for AM stations; §73.317 for FM stations and §73.687 for TV stations. Measurements must be made under all conditions of modulation expected to be encountered by the station whether transmitting monophonic or stereophonic programs and providing subsidiary communications services.

Any emission appearing on a frequency removed from the carrier by more than 600 kHz must be attenuated at least  $43 + 10 \text{ Log}_{10}$  (Power, in watts) dB below the level of the unmodulated carrier, or 80 dB, whichever is the lesser attenuation.

### Test Procedure

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

### Test Data

#### Environmental Conditions

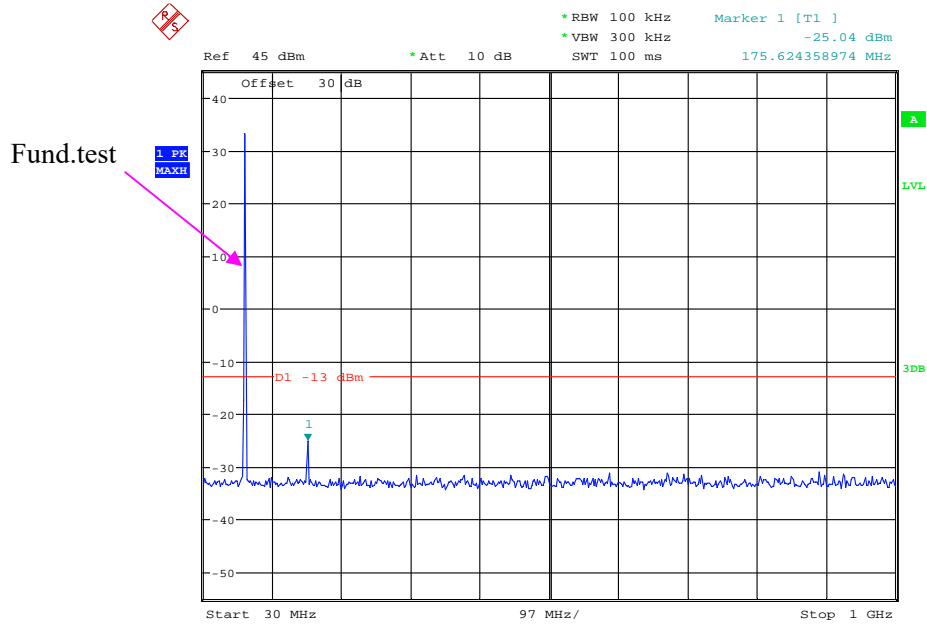
Temperature:	26 °C
Relative Humidity:	57 %
ATM Pressure:	101.0kPa

*The testing was performed by Zero Yan on 2021-06-15.*

*Test Mode: Transmitting*

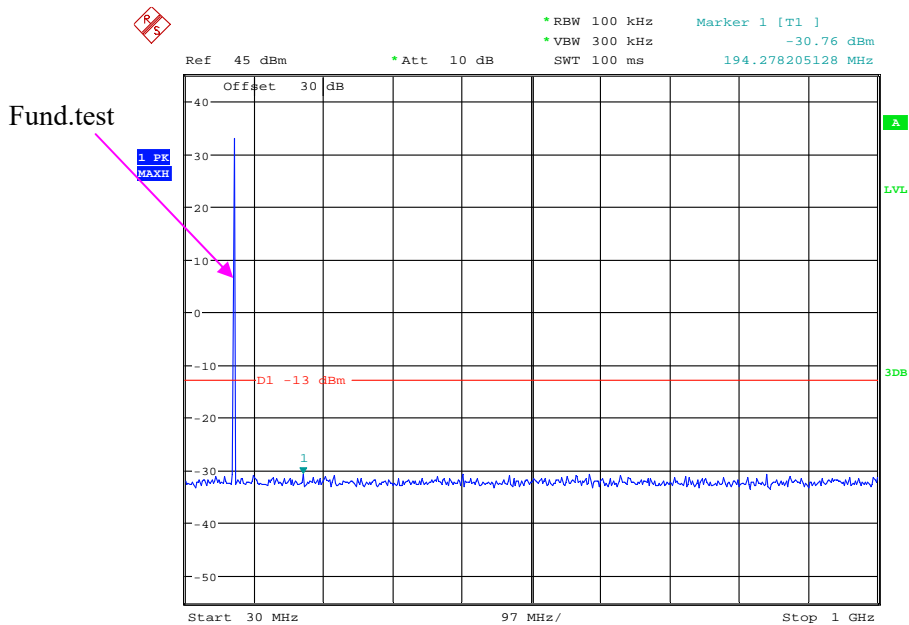
Please refer to the following plots.

### 30 MHz – 1 GHz for Low Channel 88.1 MHz



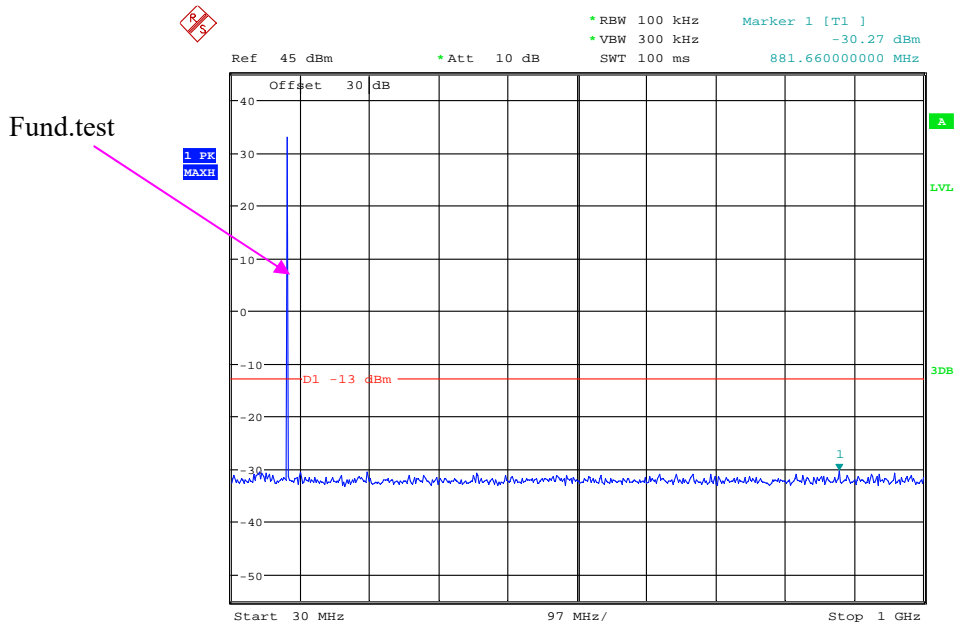
Date: 15.JUN.2021 09:23:28

### 30 MHz – 1 GHz for Middle Channel 98.1 MHz



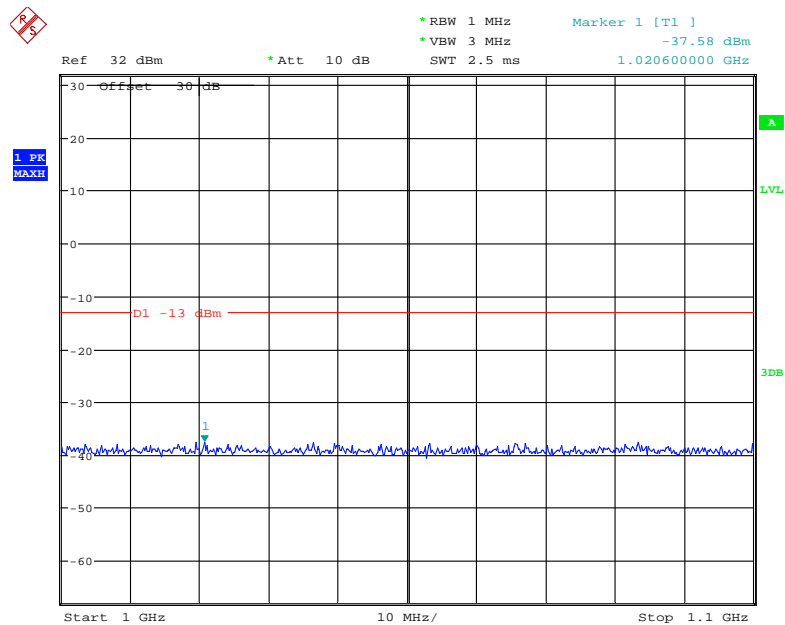
Date: 15.JUN.2021 09:22:05

### 30 MHz – 1 GHz for High Channel 107.9 MHz



Date: 15.JUN.2021 09:25:25

### 1- 1.1 GHz for High Channel 107.9 MHz



Date: 15.JUN.2021 09:26:36

## FCC §2.1053 & §73.845 & §73.1590 & §73.317 - RADIATED SPURIOUS EMISSIONS

### Applicable Standard

FCC §2.1053, §73.845, §73.1590, §73.317

Measurements for spurious and harmonic emissions must be made to show compliance with the transmission system requirements of §73.44 for AM stations; §73.317 for FM stations and §73.687 for TV stations. Measurements must be made under all conditions of modulation expected to be encountered by the station whether transmitting monophonic or stereophonic programs and providing subsidiary communications services.

Any emission appearing on a frequency removed from the carrier by more than 600 kHz must be attenuated at least  $43 + 10 \log_{10}$  (Power, in watts) dB below the level of the unmodulated carrier, or 80 dB, whichever is the lesser attenuation.

### Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to teeth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg$  (TXpwr in Watts/0.001)-the absolute level

Spurious attenuation limit in dB =  $43 + 10 \log_{10}$  (power out in Watts).

### Test Data

#### Environmental Conditions

Temperature:	27.2~30°C
Relative Humidity:	50~54 %
ATM Pressure:	101.0~101.1 kPa

*The testing was performed by Williard Wang on 2021-06-18 for below 1GHz and Alan He on 2021-06-16 for above 1GHz*

Test Mode: Transmitting

Frequency (MHz)	Receiver Reading (dBμV)	Turntable Angle Degree	Rx Antenna		Substituted			Absolute Level (dBm)	FCC Part 73	
			Height (m)	Polar (H/V)	SG Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)		Limit (dBm)	Margin (dB)
Low Channel 88.1 MHz										
176.20	87.02	69	2.1	H	-23.5	0.88	0.0	-24.38	-13	11.38
176.20	79.38	269	1.3	V	-28.5	0.88	0.0	-29.38	-13	16.38
Middle Channel 98.1 MHz										
196.20	81.29	85	2.3	H	-27.9	0.85	0.0	-28.75	-13	15.75
196.20	73.65	57	2.4	V	-33.0	0.85	0.0	-33.85	-13	20.85
High Channel 107.9 MHz										
215.80	79.24	273	1.6	H	-30.0	0.85	0.0	-30.85	-13	17.85
215.80	71.64	13	1.4	V	-35.0	0.85	0.0	-35.85	-13	22.85
1079.00	71.01	317	1.5	H	-37.7	1.60	6.20	-33.10	-13	20.10
1079.00	70.38	199	2.0	V	-39.2	1.60	6.20	-34.60	-13	21.60

**Note:** Absolute Level = SG Level - Cable loss + Antenna Gain; Margin = Limit- Absolute Level

## **FCC §2.1055 & §73.1545- FREQUENCY STABILITY**

### **Applicable Standard**

FCC §2.1055 and §73.1545

(a) AM stations. The departure of the carrier frequency for monophonic transmissions or center frequency for stereophonic transmissions may not exceed  $\pm 20$  Hz from the assigned frequency.

(b) FM stations. (1) The departure of the carrier or center frequency of an FM station with an authorized transmitter output power more than 10 watts may not exceed  $\pm 2000$  Hz from the assigned frequency.

(2) The departure of the carrier or center frequency of an FM station with an authorized transmitter output power of 10 watts or less may not exceed  $\pm 3000$  Hz from the assigned frequency.

(c) TV stations. (1) The departure of the visual carrier frequency of a TV station may not exceed  $\pm 1000$  Hz from the assigned visual carrier frequency.

(2) The departure of the aural carrier frequency of a TV station may not exceed  $\pm 1000$  Hz from the actual visual carrier frequency plus exactly 4.5 MHz.

(d) International broadcast stations. The departure of the carrier frequency of an International broadcast station may not exceed 0.0015% of the assigned frequency on which the station is transmitting.

(e) Class A TV stations. The departure of the carrier frequency of Class A TV stations may not exceed the values specified in §74.761 of this chapter. Provided, however, that Class A TV stations licensed to operate with a carrier offset, including those stations licensed with a maximum effective radiated power and/or antenna height greater than the values specified in their initial Class A TV station authorization, must comply with paragraph (c) of this section.

### **Test Procedure**

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	57%
<b>ATM Pressure:</b>	101.0 kPa

*The testing was performed by Zero Yan on 2021-06-15.*

*Test Mode: Transmitting*



<b>Reference Frequency: 88.1MHz, Limit: ±3000Hz</b>			
<b>Test Environment</b>		<b>Frequency Measure with Time Elapsed</b>	
<b>Temperature (°C)</b>	<b>Voltage Supplied (V<sub>DC</sub>)</b>	<b>Measured Frequency (MHz)</b>	<b>Frequency Error (Hz)</b>
0	85%	88.099891	-109
	100%	88.099903	-97
	115%	88.099898	-102
10	85%	88.099899	-101
	100%	88.099916	-84
	115%	88.099908	-92
20	85%	88.099886	-114
	100%	88.099911	-89
	115%	88.099904	-96
30	85%	88.099915	-85
	100%	88.099925	-75
	115%	88.099928	-72
40	85%	88.099925	-75
	100%	88.099940	-60
	115%	88.099932	-68
50	85%	88.099939	-61
	100%	88.099939	-61
	115%	88.099894	-106

<b>Reference Frequency: 98.1MHz, Limit: ±3000Hz</b>			
<b>Test Environment</b>		<b>Frequency Measure with Time Elapsed</b>	
<b>Temperature (°C)</b>	<b>Voltage Supplied (V<sub>DC</sub>)</b>	<b>Measured Frequency (MHz)</b>	<b>Frequency Error (Hz)</b>
0	85%	98.099897	-103
	100%	98.099877	-123
	115%	98.099901	-99
10	85%	98.099862	-138
	100%	98.099900	-100
	115%	98.099886	-114
20	85%	98.099896	-104
	100%	98.099905	-95
	115%	98.099898	-102
30	85%	98.099911	-89
	100%	98.099906	-94
	115%	98.099924	-76
40	85%	98.099911	-89
	100%	98.099909	-91
	115%	98.099925	-75
50	85%	98.099905	-95
	100%	98.099910	-90
	115%	98.099881	-119

<b>Reference Frequency: 107.9MHz, Limit: ±3000Hz</b>			
<b>Test Environment</b>		<b>Frequency Measure with Time Elapsed</b>	
<b>Temperature (°C)</b>	<b>Voltage Supplied (V<sub>DC</sub>)</b>	<b>Measured Frequency (MHz)</b>	<b>Frequency Error (Hz)</b>
0	85%	107.899706	-294
	100%	107.899694	-306
	115%	107.899718	-282
10	85%	107.899683	-317
	100%	107.899705	-295
	115%	107.899695	-305
20	85%	107.899693	-307
	100%	107.899721	-279
	115%	107.899708	-292
30	85%	107.899722	-278
	100%	107.899731	-269
	115%	107.899742	-258
40	85%	107.899750	-250
	100%	107.899728	-272
	115%	107.899732	-268
50	85%	107.899737	-263
	100%	107.899746	-254
	115%	107.899704	-296

**\*\*\*\*\* END OF REPORT \*\*\*\*\***