



Timco Engineering, Inc., an IIA Company
 849 NW State Road 45, Newberry, Florida 32669
 (352) 472-5500 / testing@timcoengr.com

Test Report # TR_4388-21_FCC_PART73_2

Revision: 2

Issue Date: August 30, 2021

Final Test Date: August 30, 2021



Test Report- FCC PART 73 / TBC
Prepared For: BEI Electronics, LLC

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature

(YYYY-MM-DD): 2021-08-30

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1 Customer Information

Applicant: BEI Electronics, LLC
Address: 4100 N 24TH Street
Quincy IL 32305 US

1.1 Test Result Summary

The following test procedure and guidance were used for measuring Licensed FM Broadcast Stations (TBC); FCC KDB 442401 and ANSI C63.26-2015. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.



The Following is for Test item FCC ID: DDE-XLLA0D

FCC Clauses	Description of the requirements	Result (Pass, Fail or N/A)
Applicable Clauses from Part 2		
2.1033 (c)(8)	The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.	For Info Only
2.202(g)(III)(3)	Necessary bandwidth (Sound Broadcasting)	Pass
2.1046 (a)	RF Power Output	Pass
2.1047 (a)	Modulation characteristics	Pass
2.1047 (b)	Modulation Limiting	Pass
2.1049 (e)(4)	FM broadcast transmitters for multiplex operation (SCA)	Pass
2.1049 (e)(5)	FM broadcast transmitter for stereophonic operation	Pass
2.202	Bandwidths	Pass
2.1051	Spurious emissions at antenna terminals.	Pass
2.1053	Field strength of spurious radiation.	Pass
2.1055	Frequency stability.	Pass
Applicable Clauses from Part 73		
73.267	Determining operating power.	Pass
73.317	FM transmission system requirements	Pass
73.840	Operating power and mode tolerances.	Pass



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2 Location of Testing

Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. (“IIA”).
 Testing was performed at Timco’s permanent laboratory located at 849 NW State Road 45,
 Newberry, Florida 32669

FCC test firm # 578780
 FCC Designation # US1070
 FCC site registration is under A2LA certificate # 0955.01
 ISED Canada test site registration # 2056A
 EU Notified Body # 1177
 For all designations see A2LA scope # 0955.01

2.1 Testing was performed, reviewed by:

Dates of Testing: August 30, 2021

Signature: _____



Sr. EMC Engineer
 EMC-003838-NE



Name & Title: Tim Royer, EMC Engineer

Date of Signature

(YYYY-MM-DD): 2021-08-30



3 Test Sample(s) (EUT/DUT)

The test sample was received: August 30, 2021

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification

FCC ID:	DDE-XLLA0D
Brief Description	FM Broadcast Transmitter
Type of Modular	n/a
Trade name	Broadcast Transmitter
Firmware version	n/a
Software version	n/a
Serial Number	n/a

Technical Characteristics

Technology	Licensed FM Broadcast Transmitter
Frequency Range	88-108 MHz
RF O/P Power (Max.)	30,000 W
Modulation	FM
Bandwidth & Emission Class	406KF3E
Duty Cycle	100%
Antenna Type	N/A
Antenna Gain (for each ant.)	N/A
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	AC 200-264 VAC (47-63Hz)

Antenna Characteristics

Frequency Range	Mode / BW	Ant Gain 1	Ant Gain 2
88-108 MHz	Operational	N/A	



3.2 Configuration of EUT

Test Modes

Band	Modulation	Number of Ant.
88-108MHz	FM	1

Test Frequencies	Number of Ant.
88,98,108 MHz	1

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

No peripherals used.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.



4 Test methods & Applicable Regulatory Limits

Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed FM Broadcast Stations (TBC); FCC KDB 442401 and ANSI C63.26-2015.

- 1) ANSI C63.26-2015;
- 2) FCC KDB 442401

Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 73

5 Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	1.42
Radiated Emissions (30 – 200 MHz)	5.49
Radiated Emissions (200 – 1000 MHz)	5.79
Radiated Emissions (1 GHz – 18 GHz)	4.37
The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6 Environmental Conditions

Temperature & Humidity

Measurements performed at the test site did not exceed the following:

TEMPERATURE	23 C +/- 5%
HUMIDITY	55% +/- 5%
BARAMETRIC PRESSURE	30.05 inHg

Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.

7 List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.



Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer’s model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna	<u>Biconical 1057</u>	Eaton	94455-1	1057	10/16/20	10/16/2023
Antenna, NSA	<u>Log-Periodic 1243</u>	Eaton	96005	1243	5/4/21	5/3/2024
Antenna	<u>Double-Ridged Horn/ETS Horn 1</u>	ETS-Lindgren	3117	00035923	2/25/20	2/24/2023
Receiver	<u>EMI Test Receiver R&S ESU 40</u>	Rohde & Schwarz	ESU 40	100320	5/27/21	5/26/2024
Modulation Analyzer	<u>Modulation Analyzer</u>	HP	8901A	3050A05856	4/23/20	4/23/2023
Thermometer	<u>Type K J Thermometer</u>	Martel	303	080504494	1/18/20	1/17/2023
Frequency Counter	<u>Frequency Counter Small</u>	HP	5385A	3242A07460	9/9/20	9/9/2023
Attenuator	N 20dB 50W DC-8.5G	Weinschel Eng	24-20-43	BG5562	N/A	N/A



8 Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Units of measurement

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

8.1. Necessary bandwidth (Sound Broadcasting)

Requirement from Test procedures and guidance for measuring Licensed FM Broadcast Stations (TBC); FCC KDB 442401 and ANSI C63.26-2015.

Type of Emission: 406KF3E

$$B_n = 2M + 2DK$$

$$M = 3000$$

$$D = 200 \text{ KHz (Peak Deviation)}$$

$$K = 1$$

$$B_n = 2(3K) + 2(200K) (1) = 406K$$

Where:

$$M = 10 \text{ (Modulation Frequency, kHz)}$$

$$D = 75 \text{ (Peak Deviation, kHz)}$$

$$K = 1 \text{ (constant value)}$$



8.2 RF Power Output

Requirement from FCC KDB 442401 and ANSI C63.26-2015.

Method of Measurement: RF power was measured by Indirect Method as described in the standard listed above.

Test Method:

$$\text{Transmitter output power} = E_p \times I_p \times F$$

Where:

E_p = DC input voltage of final radio stage.

I_p = Total DC input current of final radio stage.

F = Efficiency factor.

Test Data: RF Output Power

OUTPUT POWER: 30,000 Watts

Part 2.1033 (C) (8) DC Input into the final amplifier

POWER SETTING INPUT POWER: = 41,800 Watts

$$P_{(W)} = 1000 \times S_{(kVA)} \times PF$$

PF = 0.95

S = 44kVA

8.3 Modulation characteristics

Limits from FCC Part 2.1047 (a) and test procedure from ANSI C63.26-2015

Setup

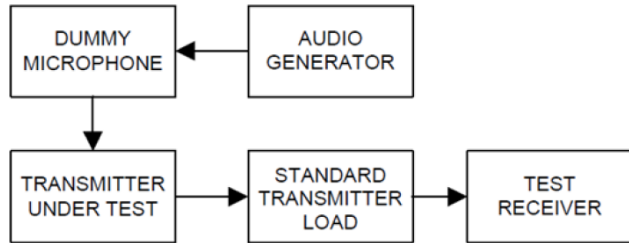
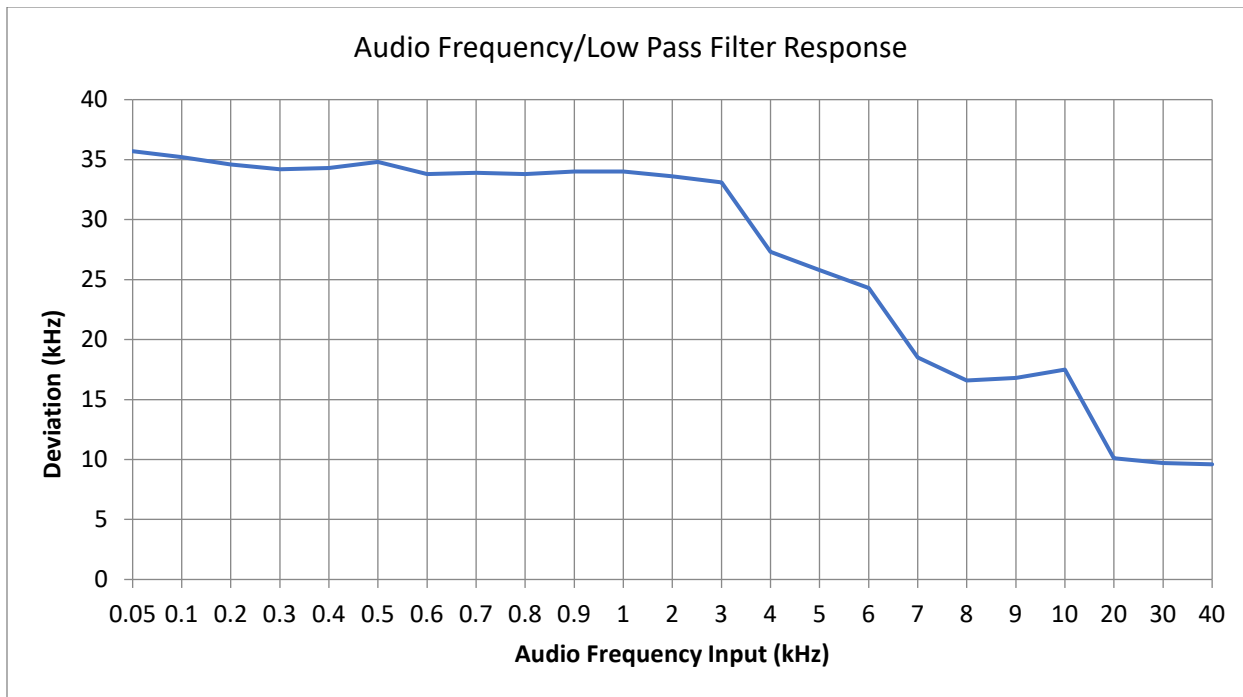


Figure 3—Equipment set-up audio frequency response (constant input)

Results



8.4 Modulation Limiting

Limits from FCC Part 2.1047 (b) and test procedure from ANSI C63.26-2015

Setup

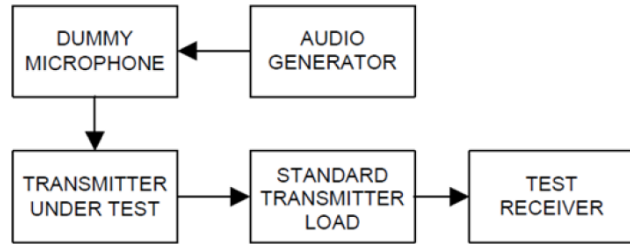
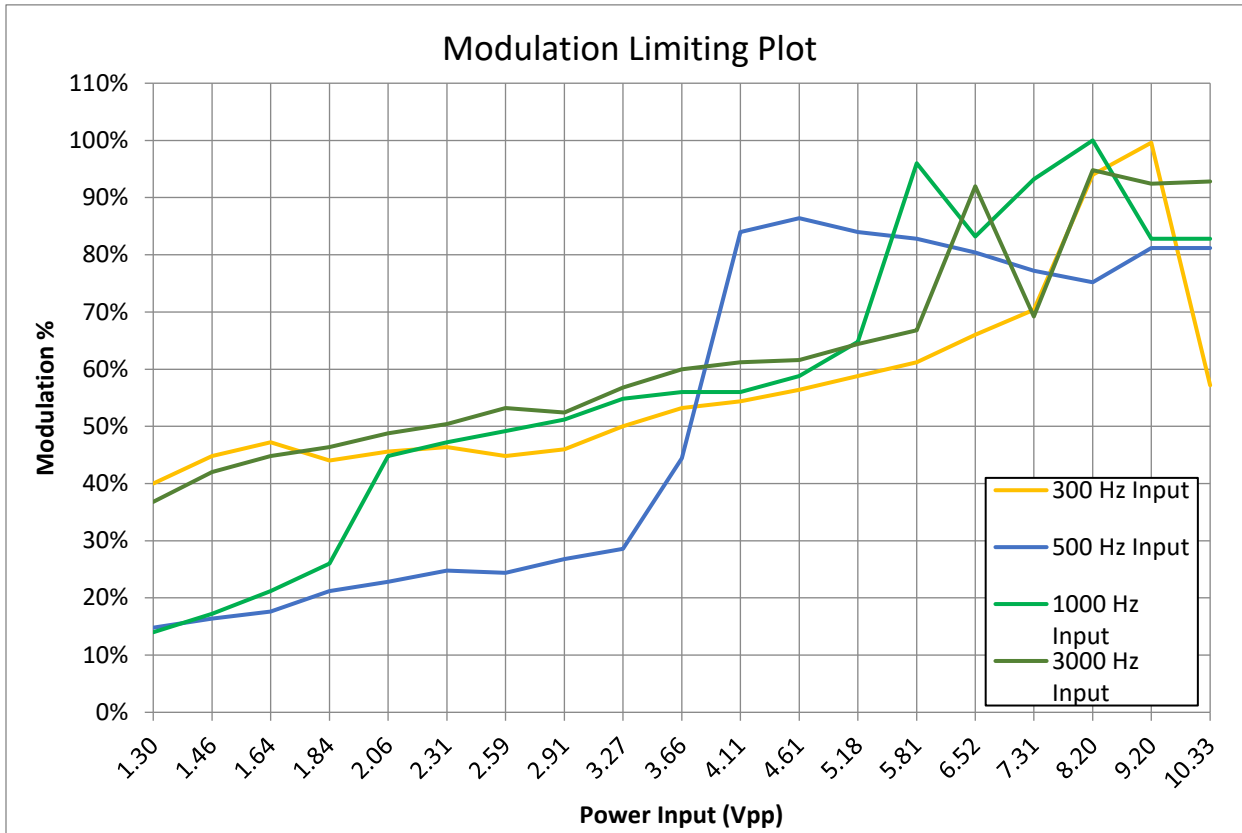


Figure 3—Equipment set-up audio frequency response (constant input)

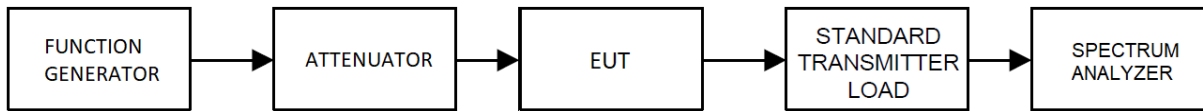
Test Data / Spectrum Plots



8.5 OCCUPIED BANDWIDTH & EMISSION MASK

Limits from FCC Part 2.1049 (e)(3) – (5), Part 73.317(b), (c) and test procedure from ANSI C63.26-2015

Setup



Test Data / Spectrum Plots

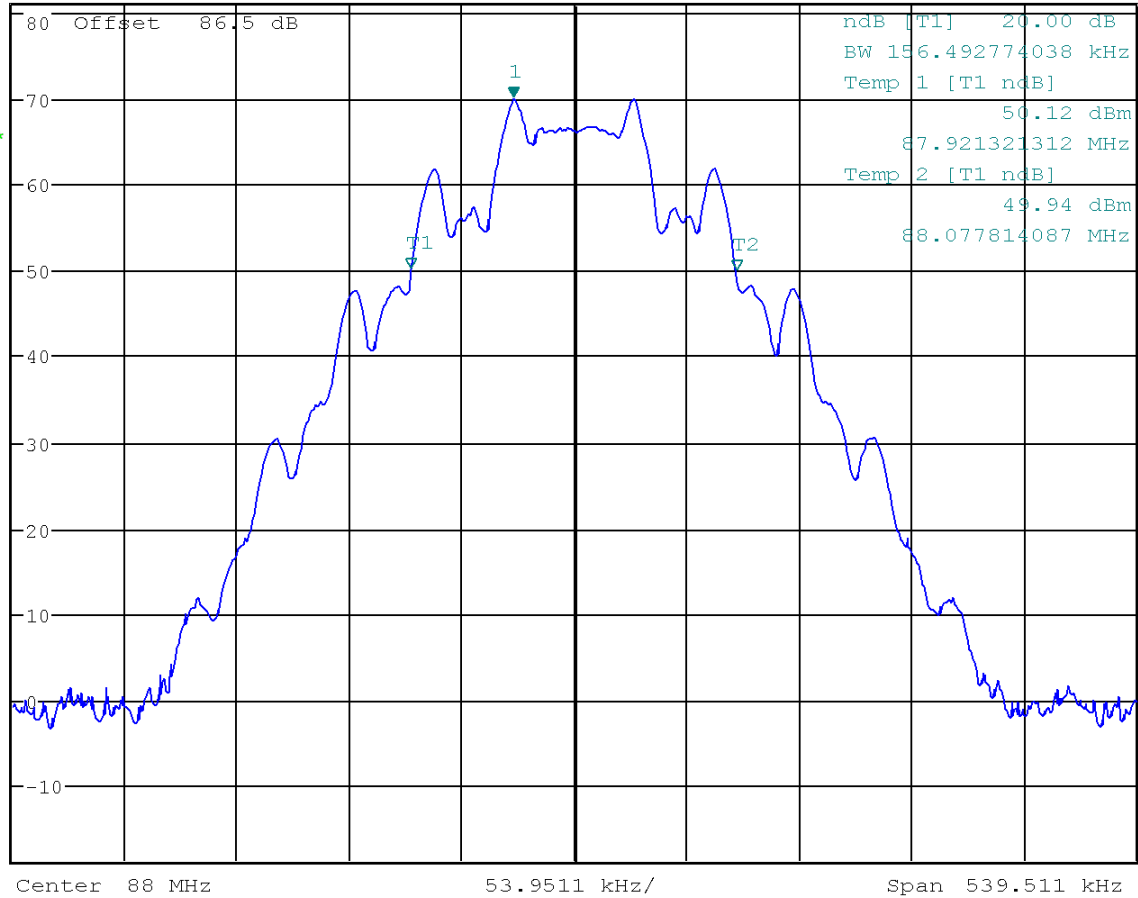
Frequency (MHz)	20dB OBW (kHz)
88	156.49
98	159.95
108	159.95

20dB OCCUPIED BANDWIDTH PLOT Low End of band



*RBW 5 kHz Marker 1 [T1]
 *VBW 20 kHz 70.14 dBm
 Ref 81.2 dBm Att 20 dB SWT 25 ms 87.970603567 MHz

1 RM*
 VIEW



A
 LVL
 3DB
 AC

Date: 30.AUG.2021 10:55:47

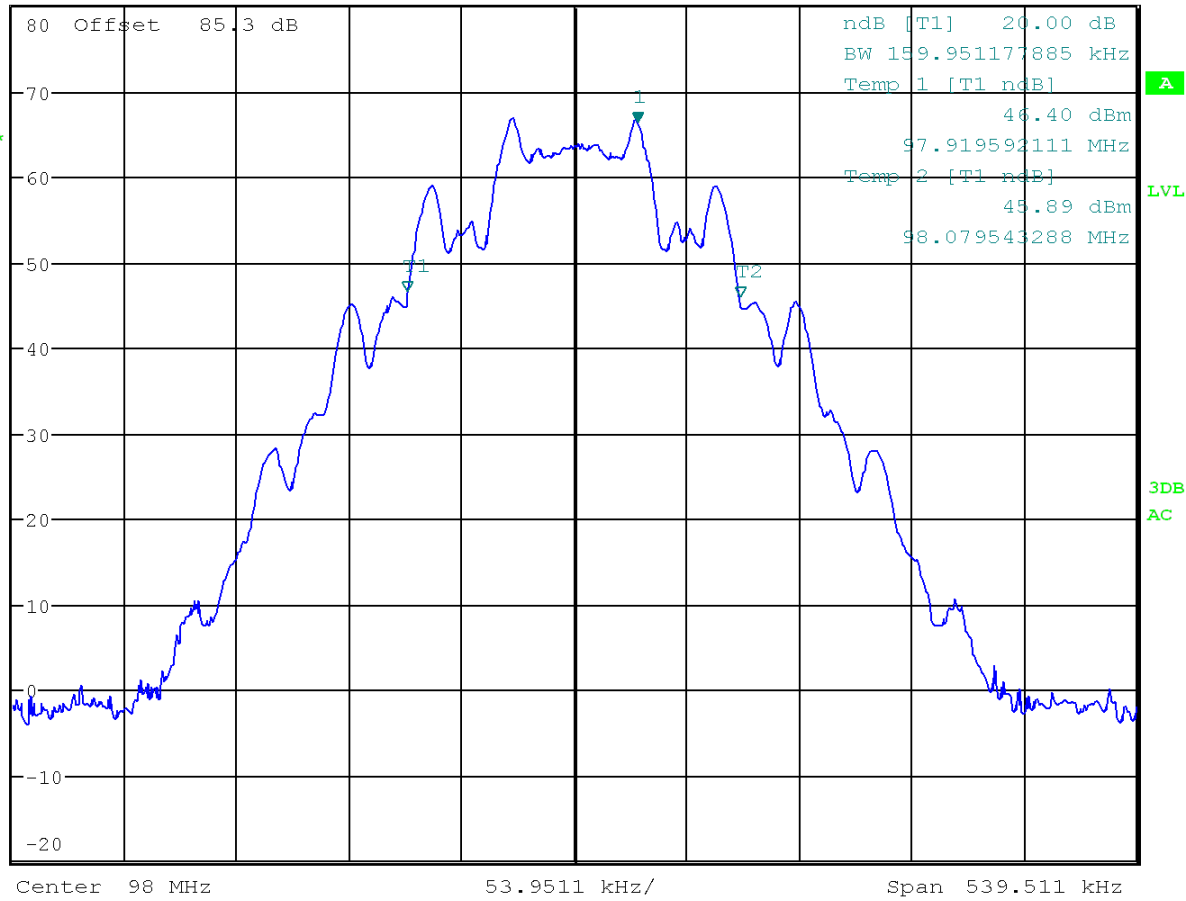
r

20dB OCCUPIED BANDWIDTH PLOT Middle of band



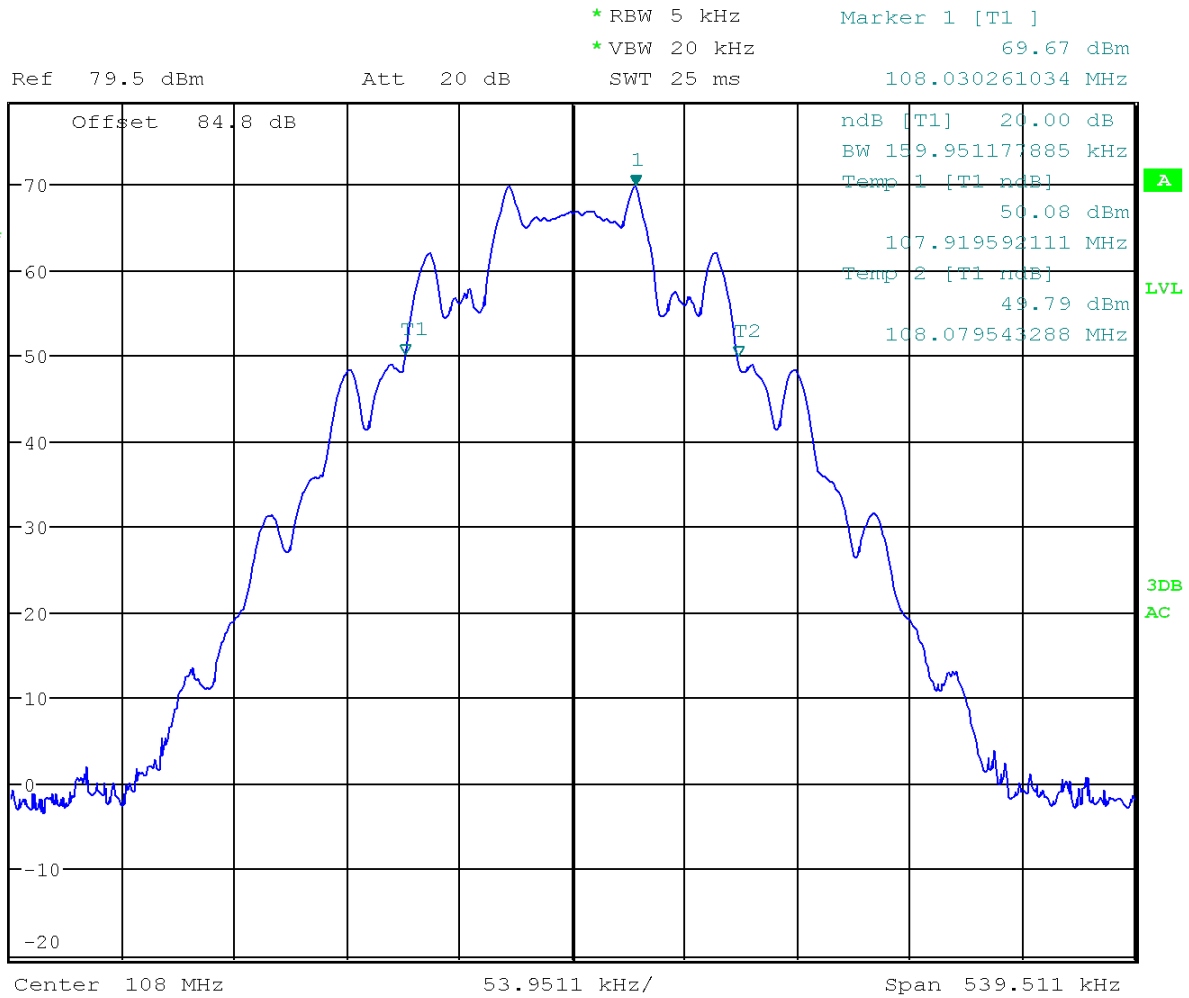
* RBW 5 kHz Marker 1 [T1]
 * VBW 20 kHz 66.21 dBm
 Ref 80 dBm Att 20 dB SWT 25 ms 98.030261034 MHz

1 RM*
 VIEW



Date: 30.AUG.2021 10:57:37

20dB OCCUPIED BANDWIDTH PLOT High End of band

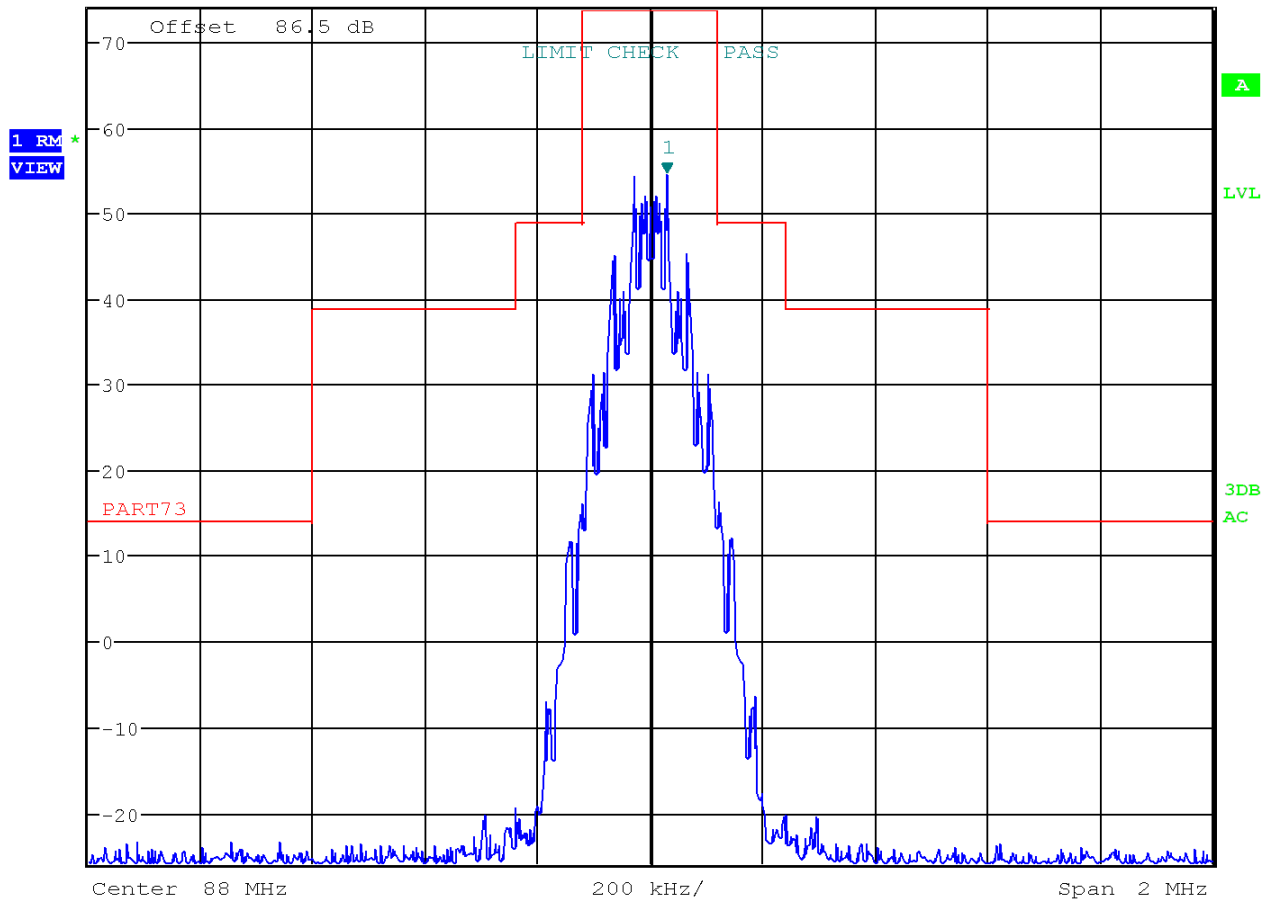


Date: 30.AUG.2021 11:00:21

EMISSION MASK PLOT Low End of band



* RBW 300 Hz Marker 1 [T1]
 * VBW 20 kHz 54.47 dBm
 Ref 74 dBm Att 15 dB SWT 22.5 s 88.028846154 MHz

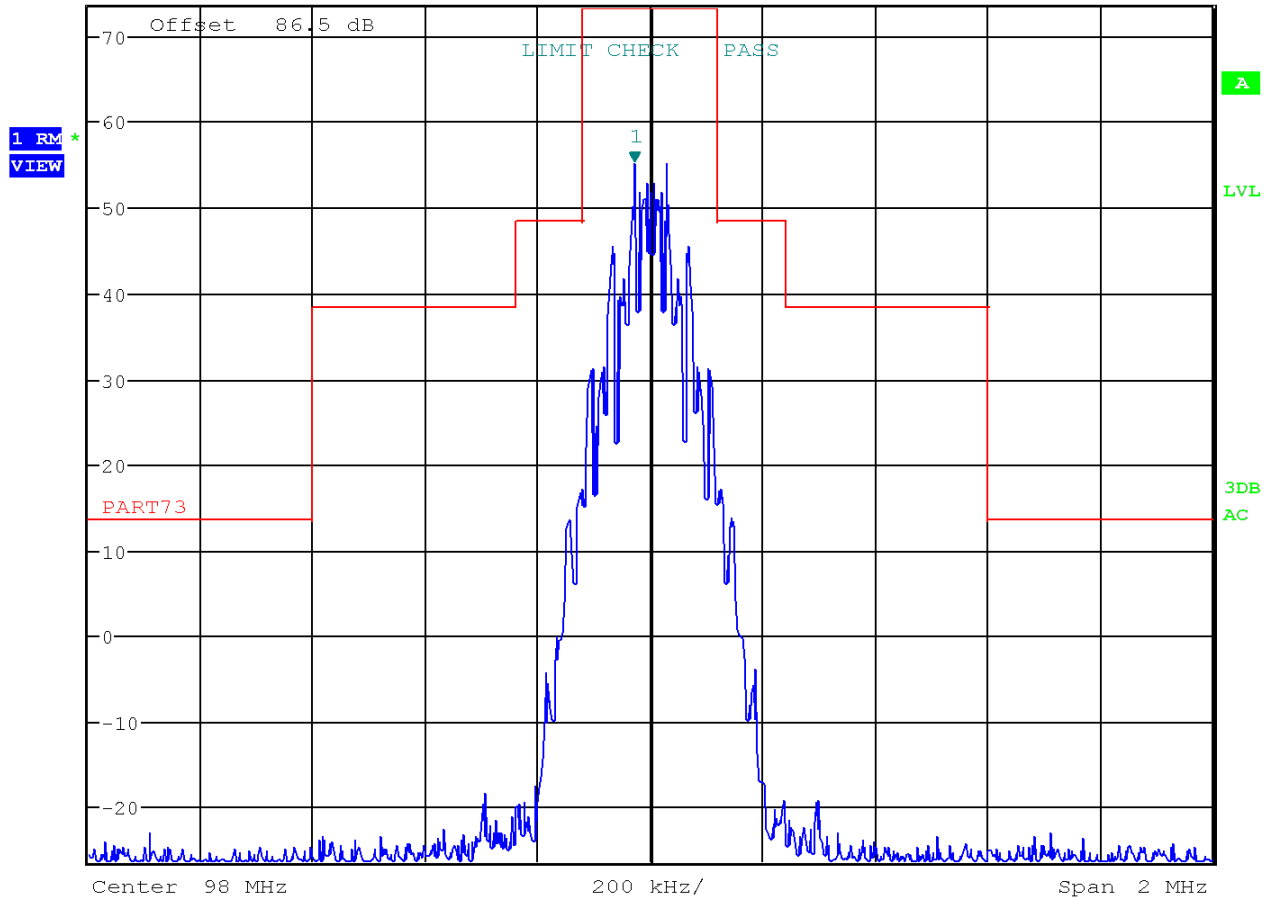


Date: 30.AUG.2021 11:10:38

EMISSION MASK PLOT Middle of band

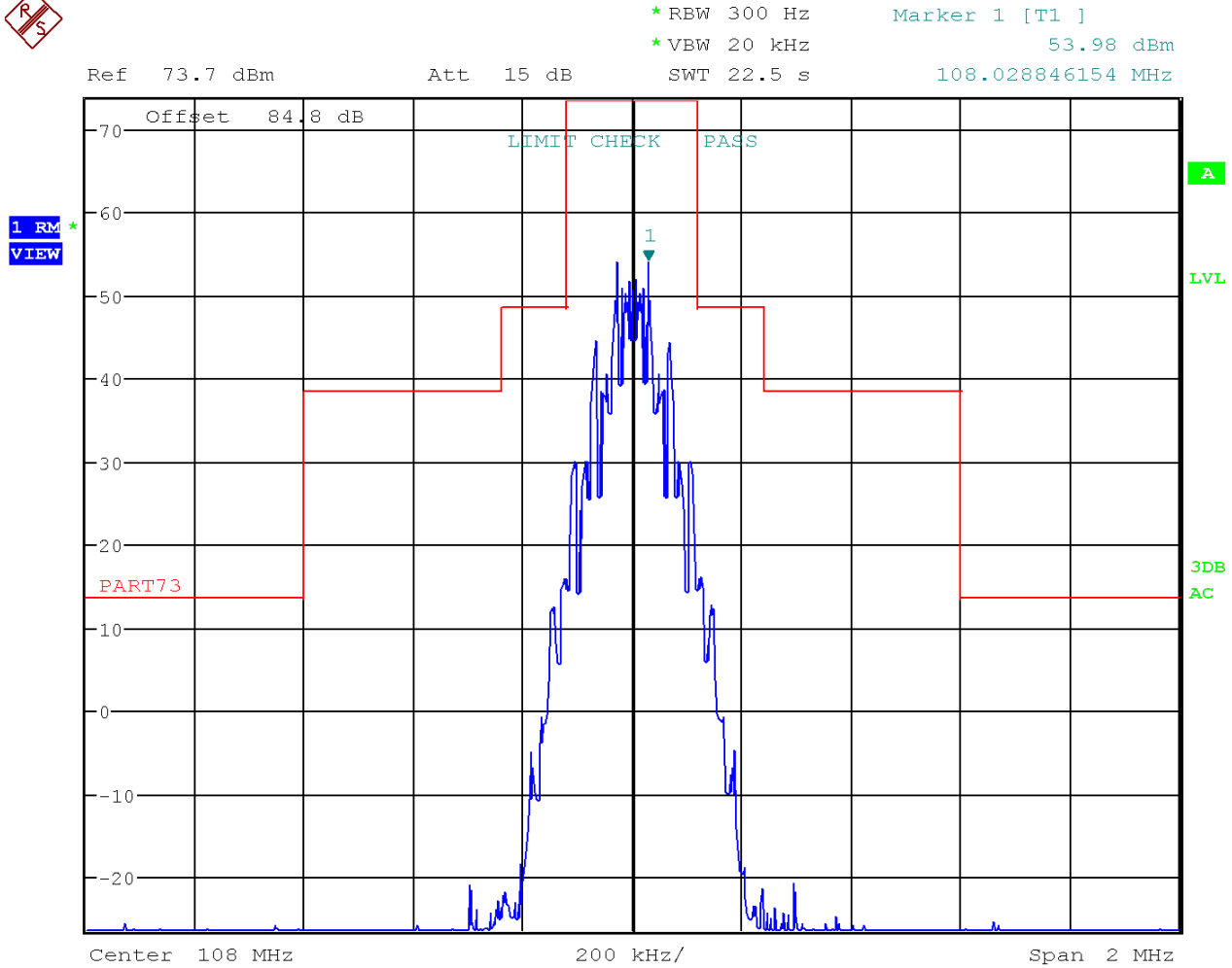


* RBW 300 Hz Marker 1 [T1]
 * VBW 20 kHz 55.22 dBm
 Ref 73.6 dBm Att 15 dB SWT 22.5 s 97.971153846 MHz



Date: 30.AUG.2021 11:06:40

EMISSION MASK PLOT High End of band

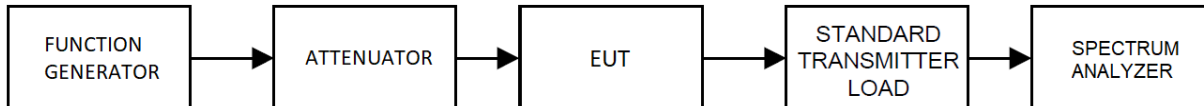


Date: 30.AUG.2021 11:02:25

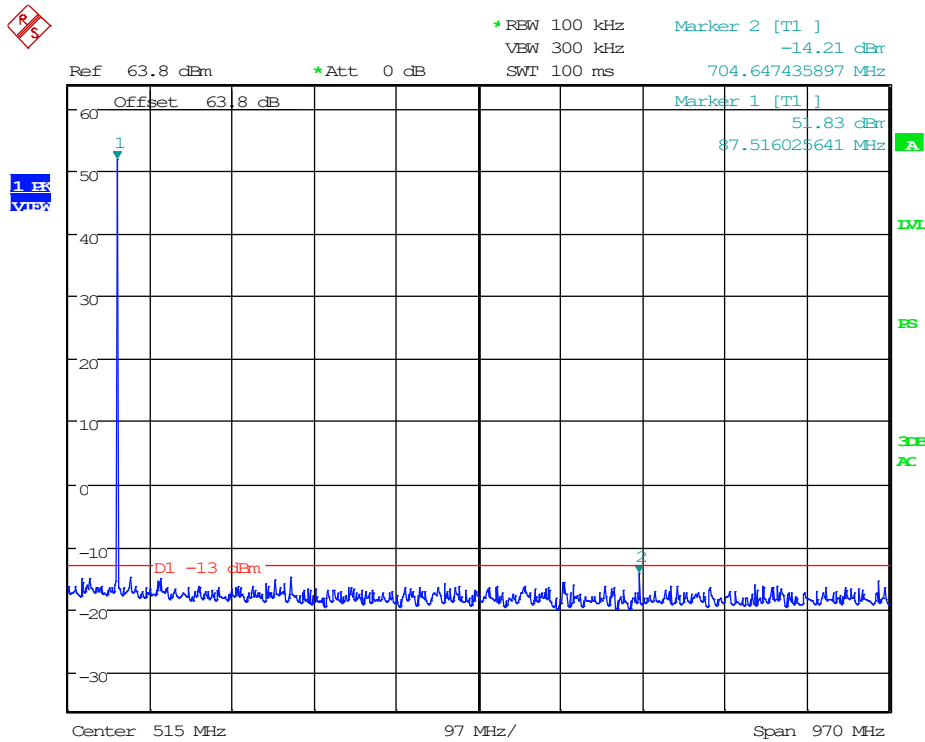
8.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Limits from FCC Part 2.1051 & 73.317(d) and test procedure from ANSI C63.26-2015

Setup



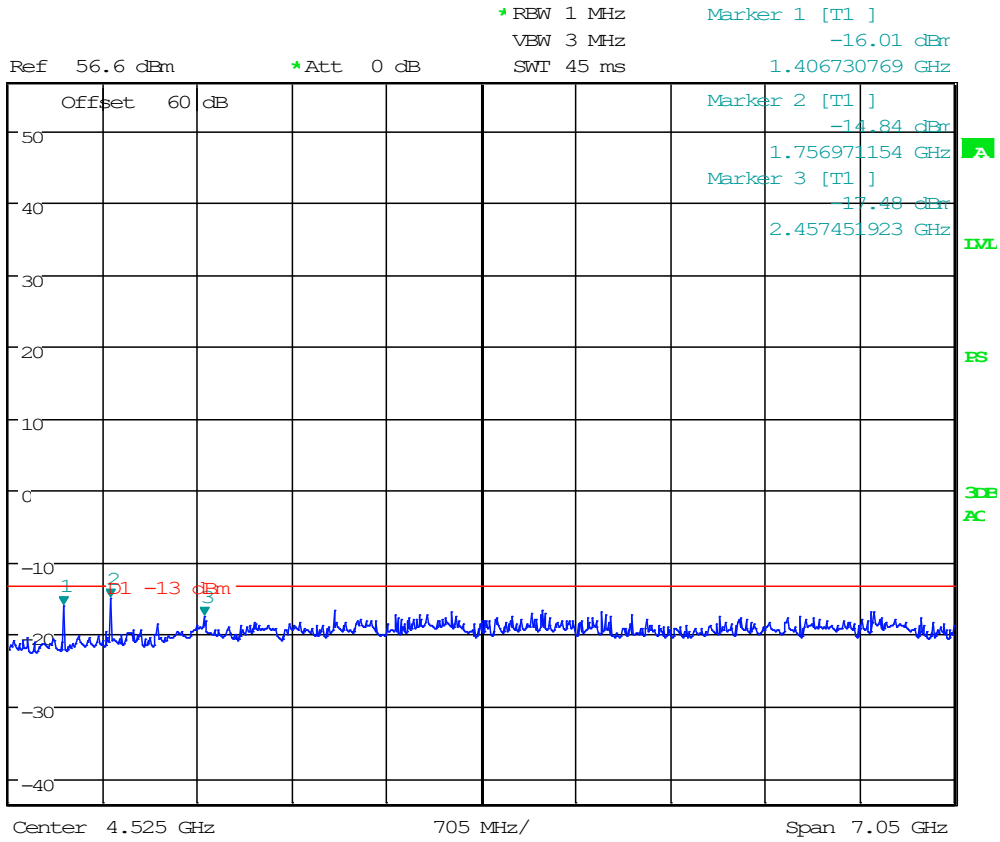
Test Data: Low Frequency



Date: 30.AUG.2021 11:15:16



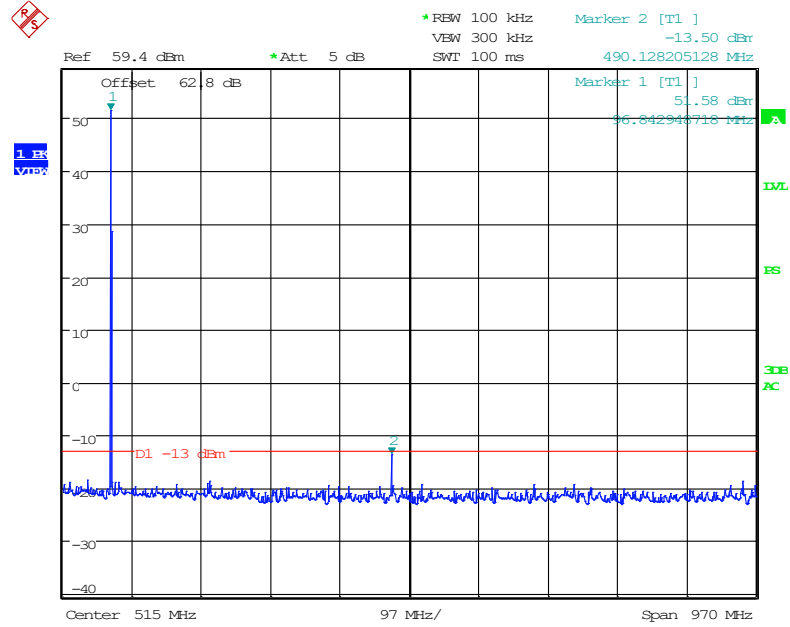
1.000
 1.000%



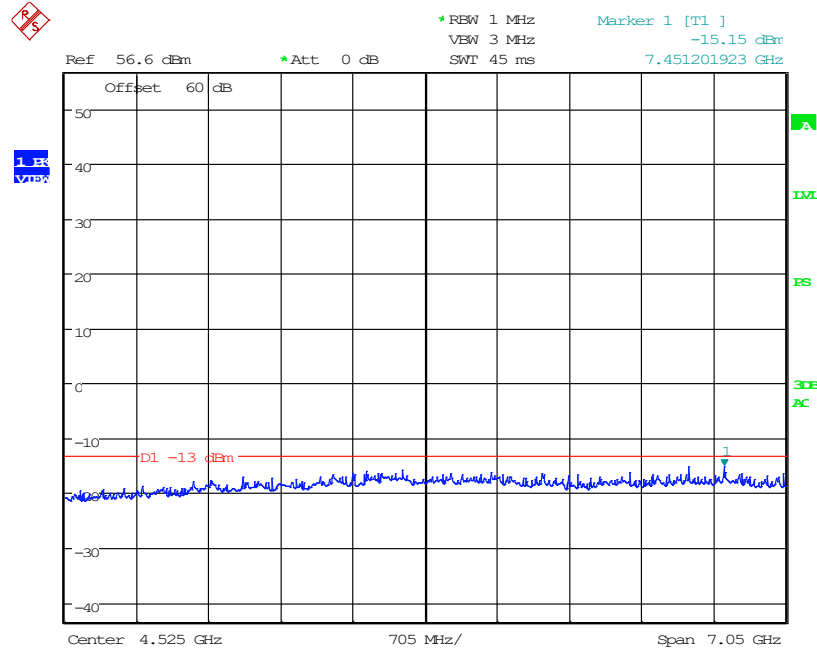
Date: 30.AUG.2021 11:18:00



Test Data: Middle Frequency

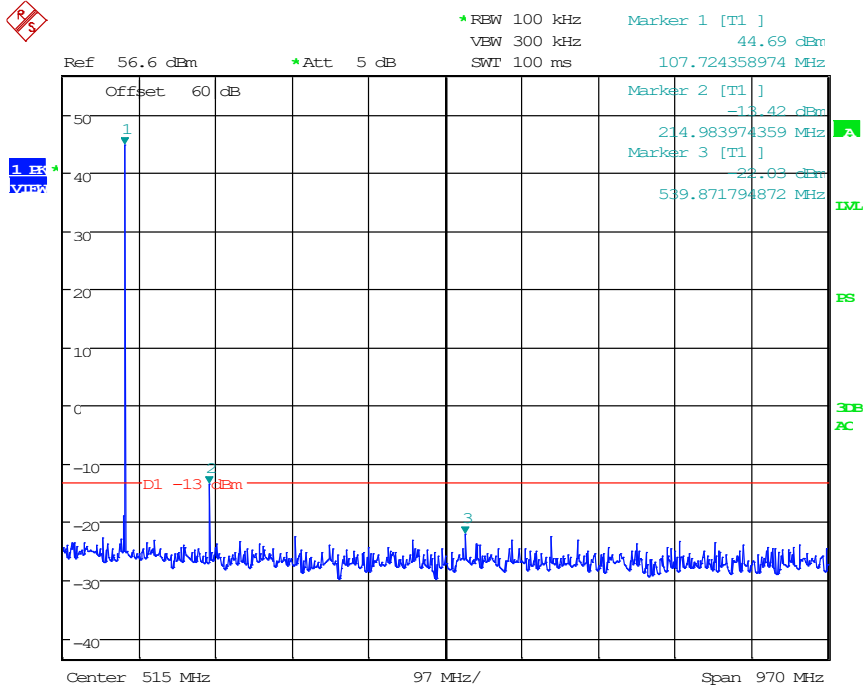


Date: 30.AUG.2021 11:22:10

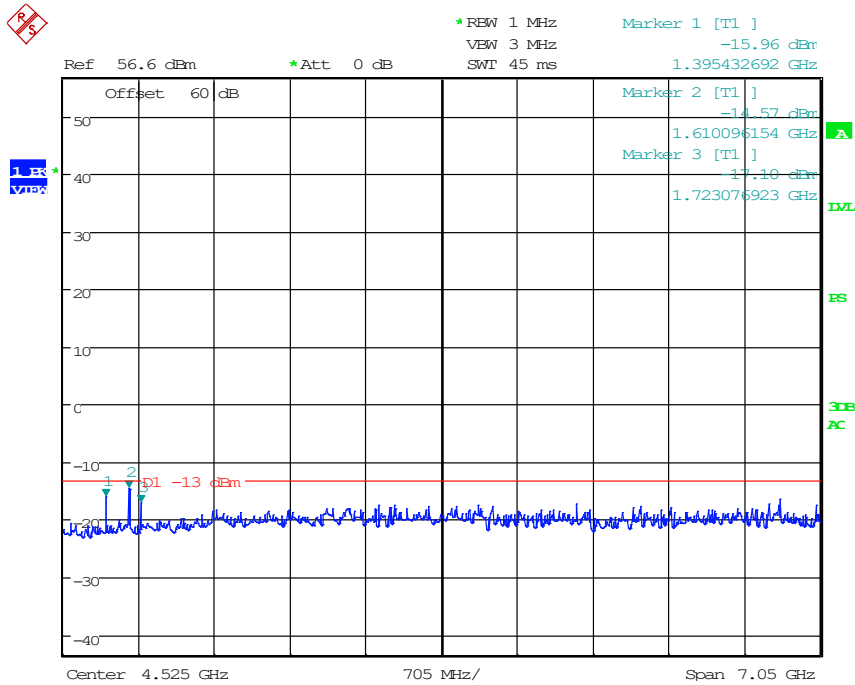


Date: 30.AUG.2021 11:21:16

Test Data: High Frequency



Date: 30.AUG.2021 11:26:00



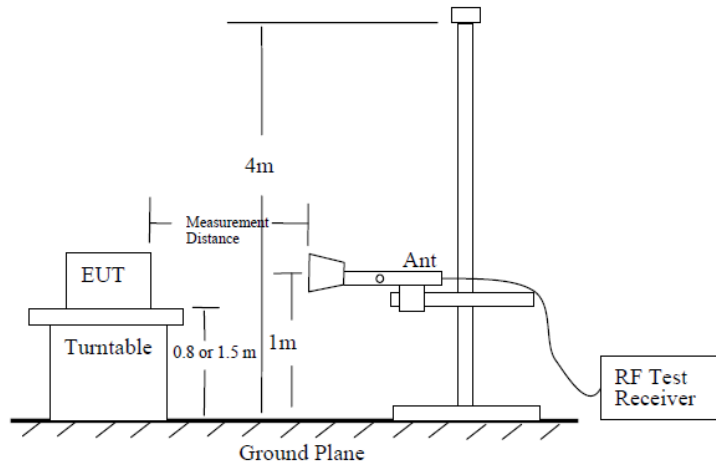
Date: 30.AUG.2021 11:27:22

8.7 FIELD STRENGTH OF SPURIOUS EMISSIONS

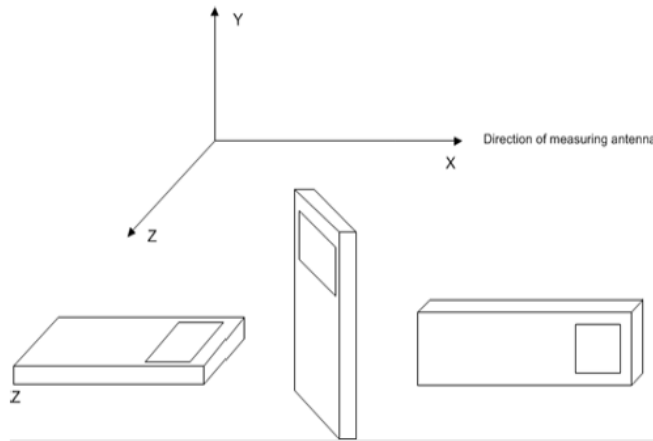
Limits from FCC Part 2.1051 & 73.317(d) and test procedure from ANSI C63.26-2015

Setup

Test Site Setup:



EUT Orientation(s):





FIELD STRENGTH OF SPURIOUS EMISSIONS

Test Data: Low Frequency

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
88.00	176.00	PK	48.90	H	1.54	14.40	3.00	64.84	-32.53	-13.00	19.53
88.00	176.00	PK	41.45	V	1.54	14.40	3.00	57.39	-39.98	-13.00	26.98
88.00	264.00	PK	51.39	H	2.03	11.88	3.00	65.30	-32.07	-13.00	19.07
88.00	264.00	PK	47.91	V	2.03	11.88	3.00	61.82	-35.55	-13.00	22.55
88.00	352.00	PK	48.53	H	2.12	14.16	3.00	64.81	-32.57	-13.00	19.57
88.00	352.00	PK	38.40	V	2.12	14.16	3.00	54.68	-42.70	-13.00	29.70
88.00	440.00	PK	54.17	H	2.40	15.70	3.00	72.27	-25.11	-13.00	12.11
88.00	440.00	PK	59.10	V	2.40	15.70	3.00	77.20	-20.18	-13.00	7.18
88.00	528.00	PK	48.71	H	2.76	16.94	3.00	68.41	-28.97	-13.00	15.97
88.00	528.00	PK	52.78	V	2.76	16.94	3.00	72.48	-24.90	-13.00	11.90
88.00	616.00	PK	51.32	H	2.90	18.72	3.00	72.94	-24.44	-13.00	11.44
88.00	616.00	PK	46.15	V	2.90	18.72	3.00	67.77	-29.61	-13.00	16.61
88.00	704.00	PK	58.50	H	3.11	20.60	3.00	82.21	-15.17	-13.00	2.17
88.00	704.00	PK	59.81	V	3.11	20.60	3.00	83.52	-13.86	-13.00	0.86
88.00	792.00	PK	36.56	H	3.32	20.68	3.00	60.56	-36.82	-13.00	23.82
88.00	792.00	PK	45.24	V	3.32	20.68	3.00	69.24	-28.14	-13.00	15.14
88.00	880.00	PK	43.44	H	3.54	22.60	3.00	69.58	-27.80	-13.00	14.80
88.00	880.00	PK	42.14	V	3.54	22.60	3.00	68.28	-29.10	-13.00	16.10

Test Data: Middle Frequency

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
98.00	196.00	PK	48.90	H	1.61	15.40	3.00	65.91	-31.47	-13.00	18.47
98.00	196.00	PK	41.45	V	1.61	15.40	3.00	58.46	-38.92	-13.00	25.92
98.00	294.00	PK	56.98	H	2.08	13.12	3.00	72.18	-25.20	-13.00	12.20
98.00	294.00	PK	46.75	V	2.08	13.12	3.00	61.95	-35.43	-13.00	22.43
98.00	392.00	PK	49.27	H	2.27	14.60	3.00	66.14	-31.24	-13.00	18.24
98.00	392.00	PK	50.44	V	2.27	14.60	3.00	67.31	-30.07	-13.00	17.07
98.00	490.00	PK	39.03	H	2.62	16.80	3.00	58.45	-38.93	-13.00	25.93
98.00	490.00	PK	35.81	V	2.62	16.80	3.00	55.23	-42.15	-13.00	29.15
98.00	588.00	PK	50.69	H	2.87	18.48	3.00	72.04	-25.34	-13.00	12.34
98.00	588.00	PK	49.07	V	2.87	18.48	3.00	70.42	-26.96	-13.00	13.96
98.00	686.00	PK	45.68	H	3.06	20.64	3.00	69.38	-28.00	-13.00	15.00
98.00	686.00	PK	53.91	V	3.06	20.64	3.00	77.61	-19.77	-13.00	6.77
98.00	784.00	PK	50.30	H	3.30	21.68	3.00	75.28	-22.09	-13.00	9.09
98.00	784.00	PK	52.48	V	3.30	21.68	3.00	77.46	-19.91	-13.00	6.91
98.00	882.00	PK	47.40	H	3.54	22.44	3.00	73.38	-23.99	-13.00	10.99
98.00	882.00	PK	53.48	V	3.54	22.44	3.00	79.46	-17.91	-13.00	4.91
98.00	980.00	PK	31.93	H	3.69	22.50	3.00	58.12	-39.26	-13.00	26.26
98.00	980.00	PK	33.14	V	3.69	22.50	3.00	59.33	-38.05	-13.00	25.05



Test Data: High Frequency

Tuned Frequency (MHz)	Emission Frequency (MHz)	Detector	Meter Reading (dBuV)	Antenna Polarity	Coax Loss (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBuV/m)	ERP (dBm)	Spurious Limit (dBm)	Margin (dB)
108.00	216.00	PK	59.13	H	1.67	10.38	3.00	71.18	-26.20	-13.00	13.20
108.00	216.00	PK	57.26	V	1.67	10.38	3.00	69.31	-28.07	-13.00	15.07
108.00	324.00	PK	39.19	H	2.09	13.74	3.00	55.02	-42.36	-13.00	29.36
108.00	324.00	PK	42.98	V	2.09	13.74	3.00	58.81	-38.57	-13.00	25.57
108.00	432.00	PK	51.86	H	2.38	15.88	3.00	70.12	-27.25	-13.00	14.25
108.00	432.00	PK	52.36	V	2.38	15.88	3.00	70.62	-26.75	-13.00	13.75
108.00	540.00	PK	54.26	H	2.78	17.40	3.00	74.44	-22.94	-13.00	9.94
108.00	540.00	PK	48.19	V	2.78	17.40	3.00	68.37	-29.01	-13.00	16.01
108.00	648.00	PK	58.53	H	2.96	19.72	3.00	81.21	-16.17	-13.00	3.17
108.00	648.00	PK	61.01	V	2.96	19.72	3.00	83.69	-13.69	-13.00	0.69
108.00	756.00	PK	39.71	H	3.23	20.98	3.00	63.92	-33.46	-13.00	20.46
108.00	756.00	PK	48.73	V	3.23	20.98	3.00	72.94	-24.44	-13.00	11.44
108.00	864.00	PK	40.75	H	3.50	22.36	3.00	66.61	-30.77	-13.00	17.77
108.00	864.00	PK	45.86	V	3.50	22.36	3.00	71.72	-25.66	-13.00	12.66
108.00	972.00	PK	53.69	H	3.66	22.72	3.00	80.07	-17.31	-13.00	4.31
108.00	972.00	PK	57.48	V	3.66	22.72	3.00	83.86	-13.52	-13.00	0.52
108.00	1080.00	PK	42.54	H	3.82	27.00	3.00	73.37	-24.01	-13.00	11.01
108.00	1080.00	PK	38.93	V	3.82	27.00	3.00	69.76	-27.62	-13.00	14.62

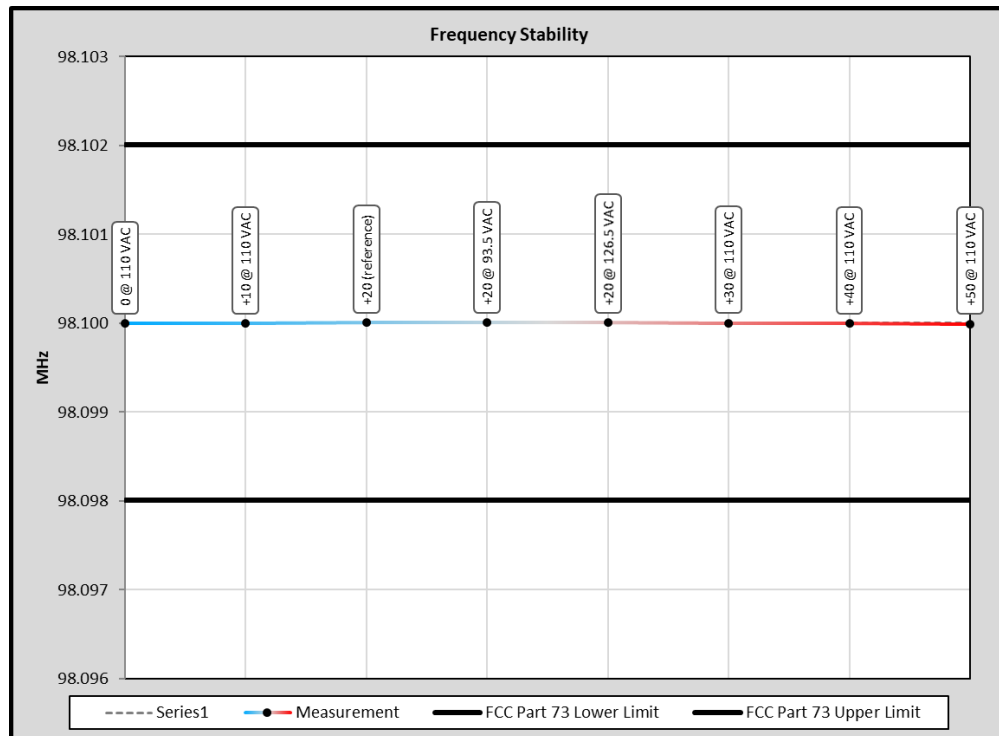
8.8 FREQUENCY STABILITY

Limits from FCC Part 2.1055(a)(3), Part 73.1545(b) and test procedure from ANSI C63.26-2015

Test Data: FCC Frequency Stability Table

FCC Part 73 Limit	2	+/- kHz	
FCC Part 73 Lower Limit	98.098008	MHz	
FCC Part 73 Upper Limit	98.102008	MHz	
Rated Supply Voltage	110.0	<input checked="" type="radio"/> AC <input type="radio"/> DC	
Temperature / Voltage Variation			
Temperature (°C)	Supplied Voltage (V)	Frequency (MHz)	Deviation (kHz)
0	110.0	98.099995	0.013
+10	110.0	98.099997	0.011
+20 (reference)	110.0	98.100008	0.000
+20	93.5	98.100008	0.000
+20	126.5	98.100008	0.000
+30	110.0	98.100004	0.004
+40	110.0	98.099996	0.012
+50	110.0	98.099991	0.017

Test Data: FCC Frequency Stability Plot





9 ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT Are in a separate supplementary ANNEX-A document.

10 ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

11 History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_4388-21_FCC_PART73_1	1	Initial release	August 30, 2021
	2	Updated Page 9	February 25, 2022



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END of Test Report
