

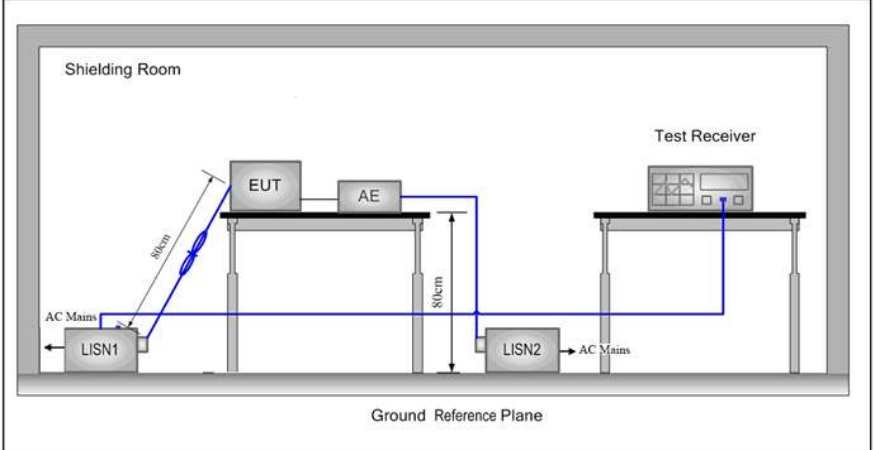
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-29-2024	01-28-2027
Receiver	Keysight	N9038A	MY57290136	12-22-2025	12-21-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	12-21-2025	12-20-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	12-21-2025	12-20-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	03-29-2026	03-28-2027
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-03-2026	04-02-2027
Horn Antenna	ETS-LINDGREN	3117	57407	05-10-2026	05-09-2027
Preamplifier	EMCI	EMC001330	980563	02-06-2026	02-05-2027
Preamplifier	EMCI	EMC051845SE	980380	11-25-2025	11-24-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-07-2025 06-22-2026	07-06-2026 06-21-2027
Communication test set	R&S	CMW500	104466	11-25-2025	11-24-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	03-24-2026	03-23-2027
RSE Automatic test software	JS Tonscend	JS36-RSE	V5.0.0.1	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-29-2024	01-28-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-29-2024	01-28-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-29-2024	01-28-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-29-2024	01-28-2027

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna:	Please see Internal photos
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -5.33 dBi.	

5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2020		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Setup:			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2020 on conducted measurement.		
Test Mode:	All modes were tested, only the worst case mode a was recorded in the report.		

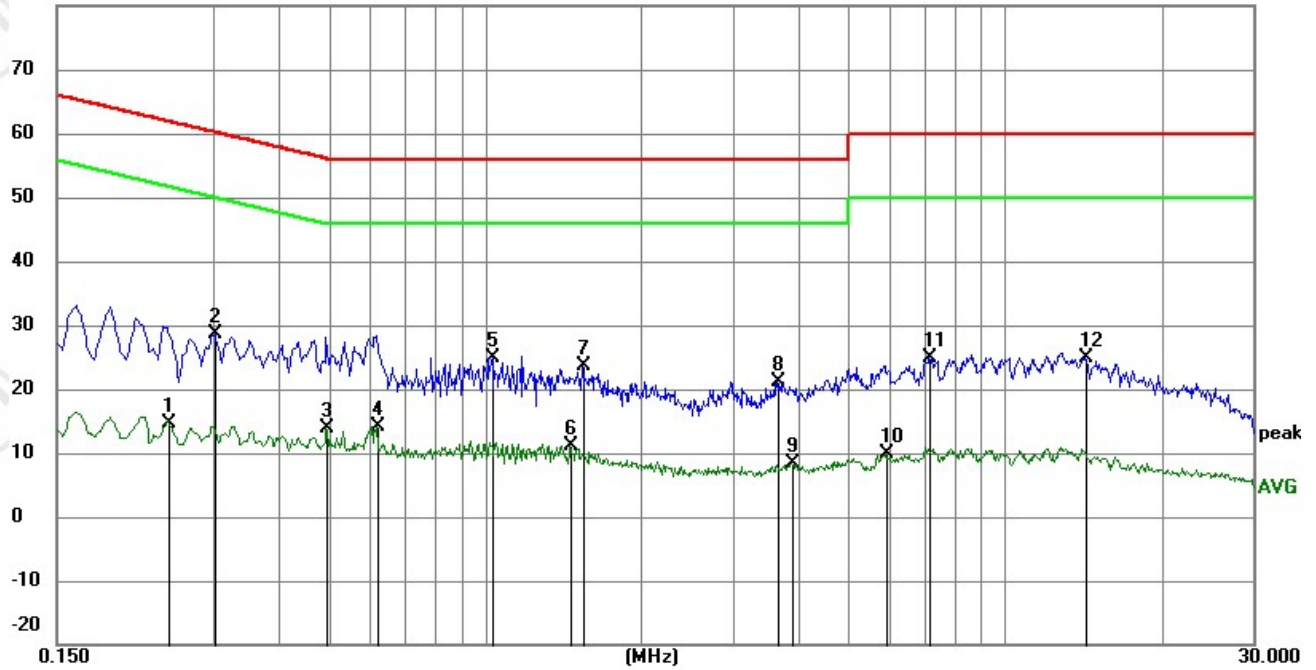
Test Results:

Pass

Measurement Data

Live line:

80.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2468	4.34	10.17	14.51	51.86	-37.35	AVG	
2		0.3030	18.41	10.13	28.54	60.16	-31.62	QP	
3		0.4965	3.68	10.08	13.76	46.06	-32.30	AVG	
4		0.6180	4.13	10.11	14.24	46.00	-31.76	AVG	
5	*	1.0320	14.75	10.18	24.93	56.00	-31.07	QP	
6		1.4595	0.84	10.18	11.02	46.00	-34.98	AVG	
7		1.5360	13.35	10.17	23.52	56.00	-32.48	QP	
8		3.6555	11.12	10.11	21.23	56.00	-34.77	QP	
9		3.8985	-1.66	10.10	8.44	46.00	-37.56	AVG	
10		5.9190	-0.17	10.05	9.88	50.00	-40.12	AVG	
11		7.1610	14.93	10.03	24.96	60.00	-35.04	QP	
12		14.2710	15.11	9.87	24.98	60.00	-35.02	QP	

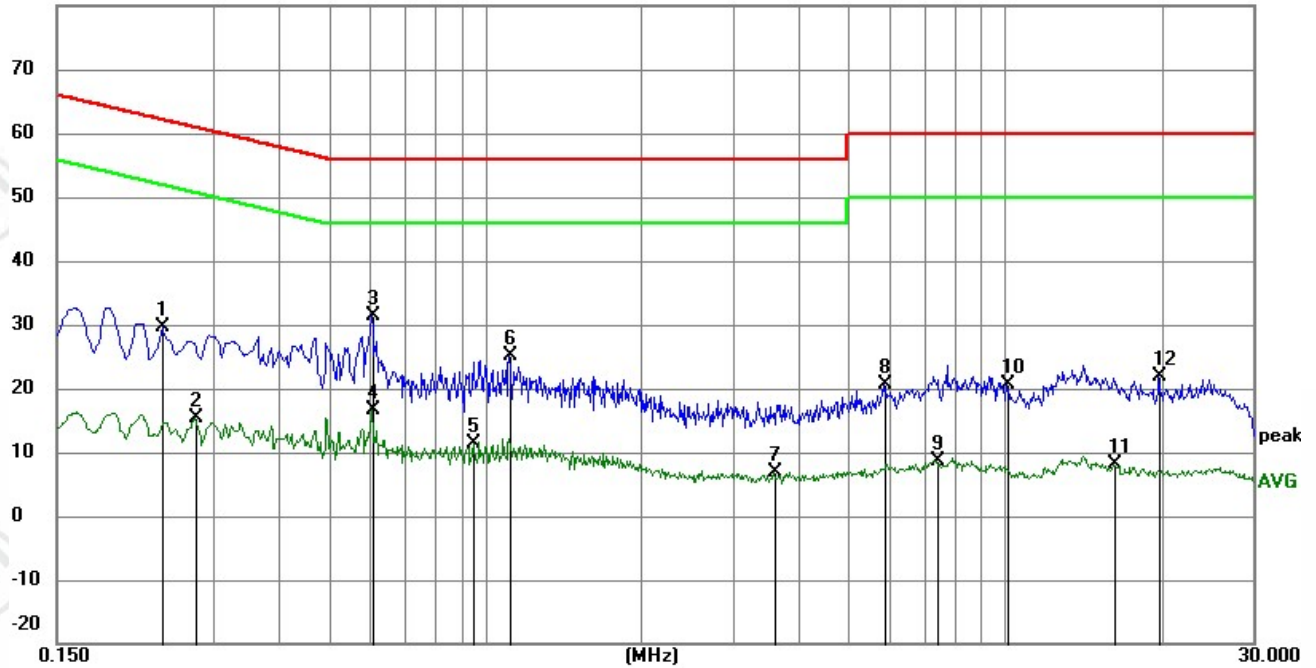
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. Margin = Measurement - Limit.
4. Measurement = Reading Level + Correct Factor.

- 5. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit.
- 6. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

80.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2400	19.40	10.18	29.58	62.10	-32.52	QP	
2		0.2760	5.16	10.15	15.31	50.94	-35.63	AVG	
3	*	0.6045	21.20	10.10	31.30	56.00	-24.70	QP	
4		0.6045	6.51	10.10	16.61	46.00	-29.39	AVG	
5		0.9510	1.18	10.18	11.36	46.00	-34.64	AVG	
6		1.1130	14.88	10.18	25.06	56.00	-30.94	QP	
7		3.5925	-3.22	10.11	6.89	46.00	-39.11	AVG	
8		5.8605	10.64	10.05	20.69	60.00	-39.31	QP	
9		7.3860	-1.30	10.02	8.72	50.00	-41.28	AVG	
10		10.0725	10.73	9.95	20.68	60.00	-39.32	QP	
11		16.2150	-1.69	9.85	8.16	50.00	-41.84	AVG	
12		19.8285	12.10	9.80	21.90	60.00	-38.10	QP	

Remark:

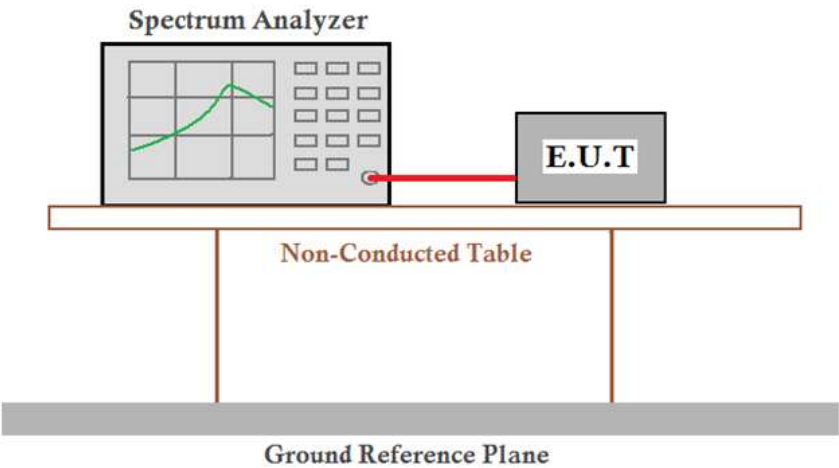
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. Margin = Measurement - Limit.
4. Measurement = Reading Level + Correct Factor.
5. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit.
6. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Spurious Emissions

5.3.1 Duty Cycle

Test Requirement: 47 CFR Part 15C Section 15.35 (c)
Test Method: ANSI C63.10:2020

Test Setup:



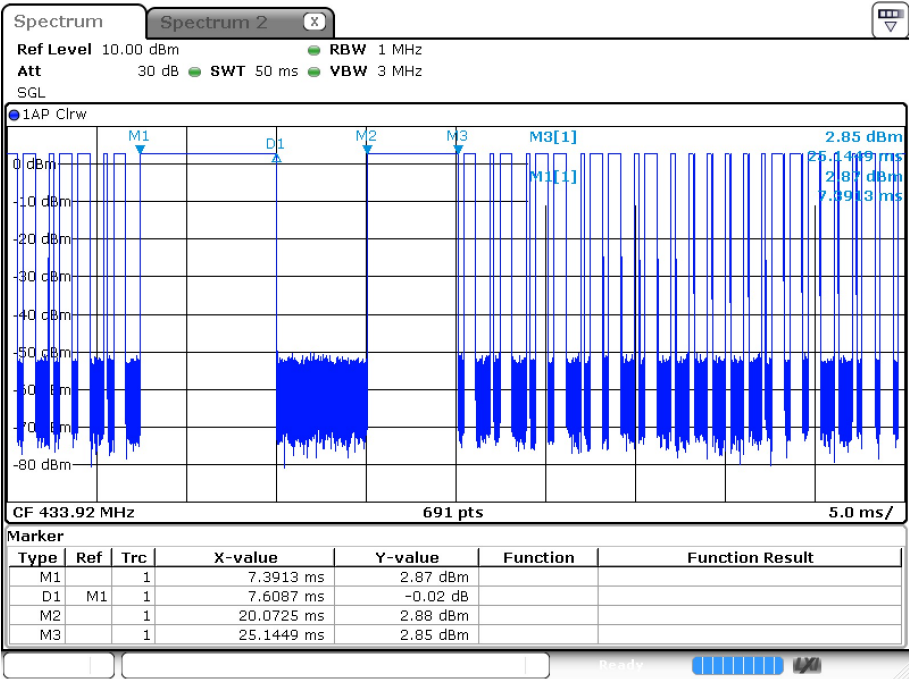
Limit: N/A
Test Mode: Transmitting mode
Test Results: Pass

Duty cycle numbers	T period (ms)	T on time (ms)	Duty cycle (%)
41	57.391	31.56	0.55

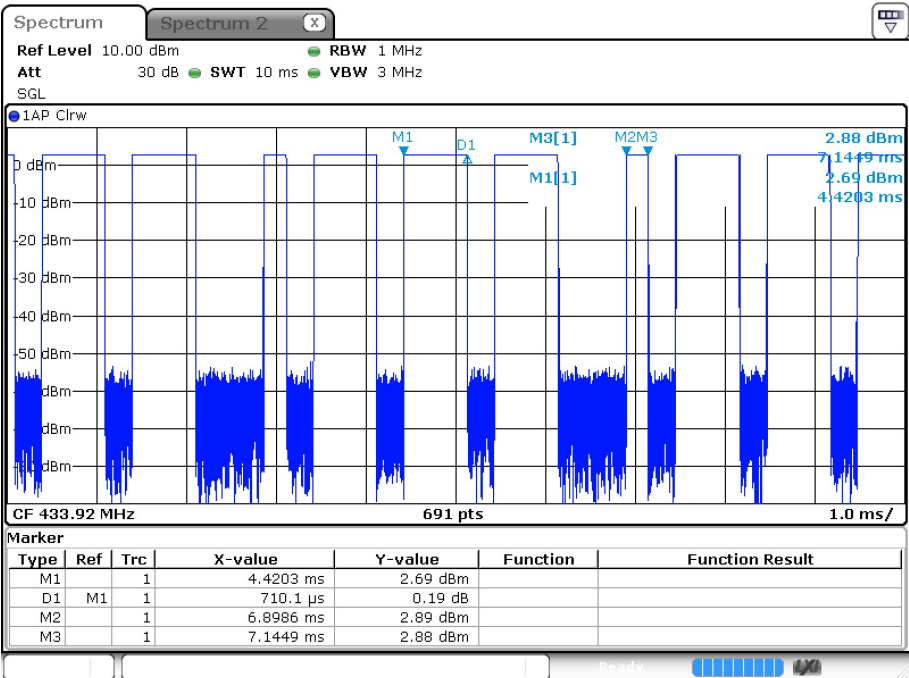
Note: $T \text{ on time} = 7.6081 + 5.0724 + 0.710 \times 20 + 0.2463 \times 19 = 31.56 \text{ ms}$,
 $\text{Duty cycle} = T \text{ on time} / T \text{ period}$

Test plot as follows:

Time slot:

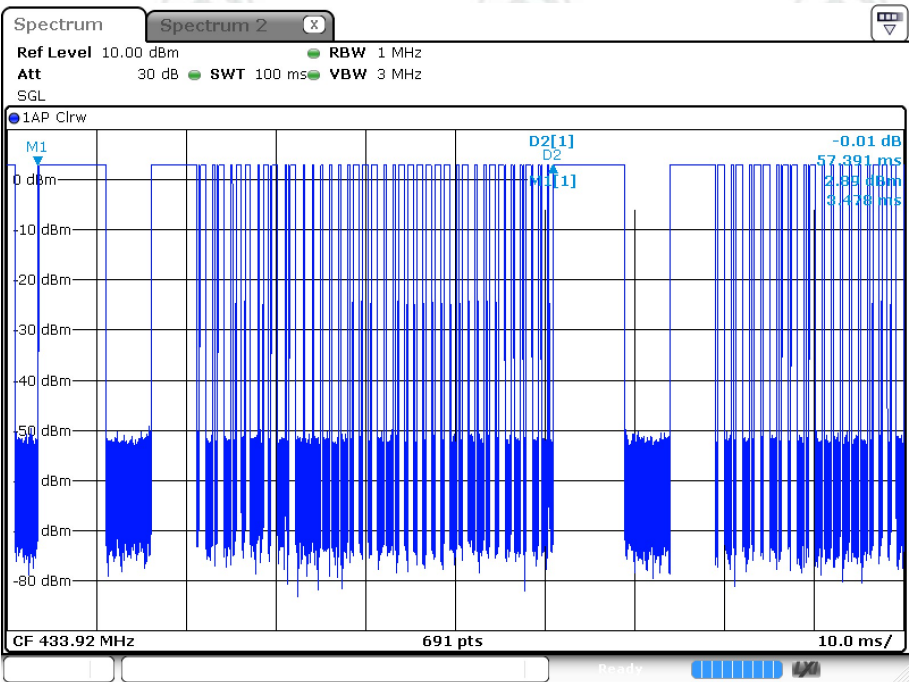


Date: 10.AUG.2026 19:16:09



Date: 10.AUG.2026 19:21:54

Duty cycle numbers:



Date: 10.AUG.2026 19:12:48