

TEST REPORT

Product : High Power Relay
Trade mark : Zooz
Model/Type reference : ZEN78 800LR
Serial Number : N/A
Report Number : EED32R81174001
FCC ID : 2AZ2V-ZEN78
Date of Issue : Aug. 26, 2025
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Lorenz High Definition LLC
230 Rt 206 STE 401, Flanders, New Jersey 07836, United States

Prepared by:

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Aug. 26, 2025



Check No.: 4341140725

1 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS

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3 General Information

3.1 Client Information

Applicant:	Lorenz High Definition LLC
Address of Applicant:	230 Rt 206 STE 401, Flanders, New Jersey 07836, United States
Manufacturer:	Fantem Technologies (Shenzhen) Co., Ltd
Address of Manufacturer:	7th floor, Building 1, Technology Research and Development Industrial Zone, Jian Cang Technology Park, No. 11 Songgang Avenue, Songgang Street, Bao'an District, Shenzhen City, Guangdong, China.
Factory:	Fantem Technologies (Shenzhen) Co., Ltd
Address of Factory:	7th floor, Building 1, Technology Research and Development Industrial Zone, Jian Cang Technology Park, No. 11 Songgang Avenue, Songgang Street, Bao'an District, Shenzhen City, Guangdong, China.

3.2 General Description of EUT

Product Name:	High Power Relay
Model No.:	ZEN78 800LR
Trade mark:	Zooz
Product Type:	<input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location
Frequency Range:	902.75MHz to 927.25MHz
Number of Channels:	1
Modulation type:	FSK/GFSK/O-QPSK
Antenna Type:	Wire antenna
Test Software of EUT:	1 dBi
Test Power Grade:	Default
Power Supply:	AC 120V
Test Voltage:	AC 120V
Sample Received Date:	Jul. 14, 2025
Sample tested Date:	Jul. 22, 2025 to Aug. 05, 2025

Operation Frequency each of channel :	
Channel	Frequency(MHz)
CH1	908.4
CH2	908.42
CH3	912
CH4	916
CH5	920

Note:

All frequency were selected to perform the test.

3.3 Test Environment and Mode

Operating Environment:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

3.4 Description of Support Units

The EUT has been tested independently.

3.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

4 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-16-2025	06-15-2026
Signal Generator	R&S	SMBV100A	1407.6004K02- 262149-CV	09-02-2024	09-01-2025
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-16-2025	06-15-2026
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-26-2025	05-25-2026
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	---	---
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	01/13/2024	01/12/2027
Receiver	R&S	ESCI7	100938-003	09/07/2024	09/06/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/14/2025	05/13/2026
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/07/2025	04/06/2026
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/07/2025	04/06/2026
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026
Preamplifier	CD	PAP-1840-60	6041.6042	06/26/2025	05/25/2026
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	01/13/2024	01/12/2027
Cable line	Fulai(6M)	SF106	5220/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5216/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5217/6A	01/13/2024	01/12/2027

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-12-2025	04-11-2026
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-12-2025	04-11-2026
Horn Antenna	ETS-LINDGREN	3117	57407	06-29-2025	06-28-2026
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024	12-04-2025
Preamplifier	EMCI	EMC001330	980563	03-03-2025	03-02-2026
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-07-2025	07-06-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	03-31-2025	03-30-2026
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2024	01-08-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2024	01-08-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2024	01-08-2027

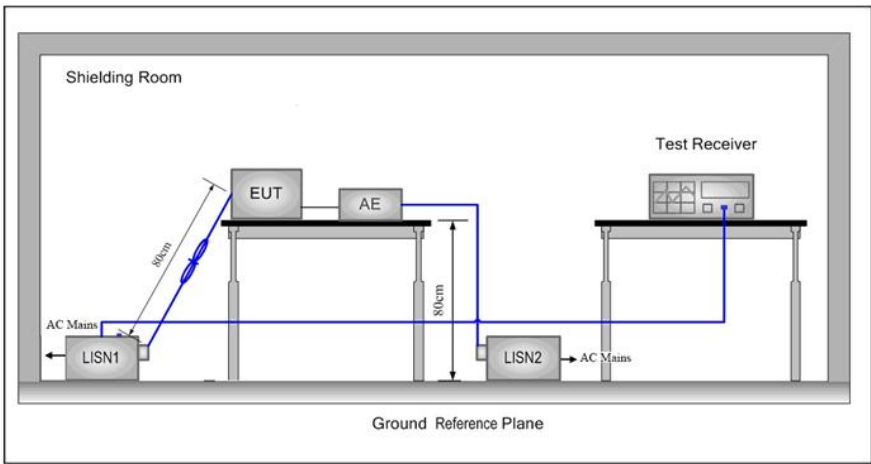
5 Test results and Measurement Data

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 Wire antenna and no consideration of replacement.	

5.2 Radiated Spurious Emissions

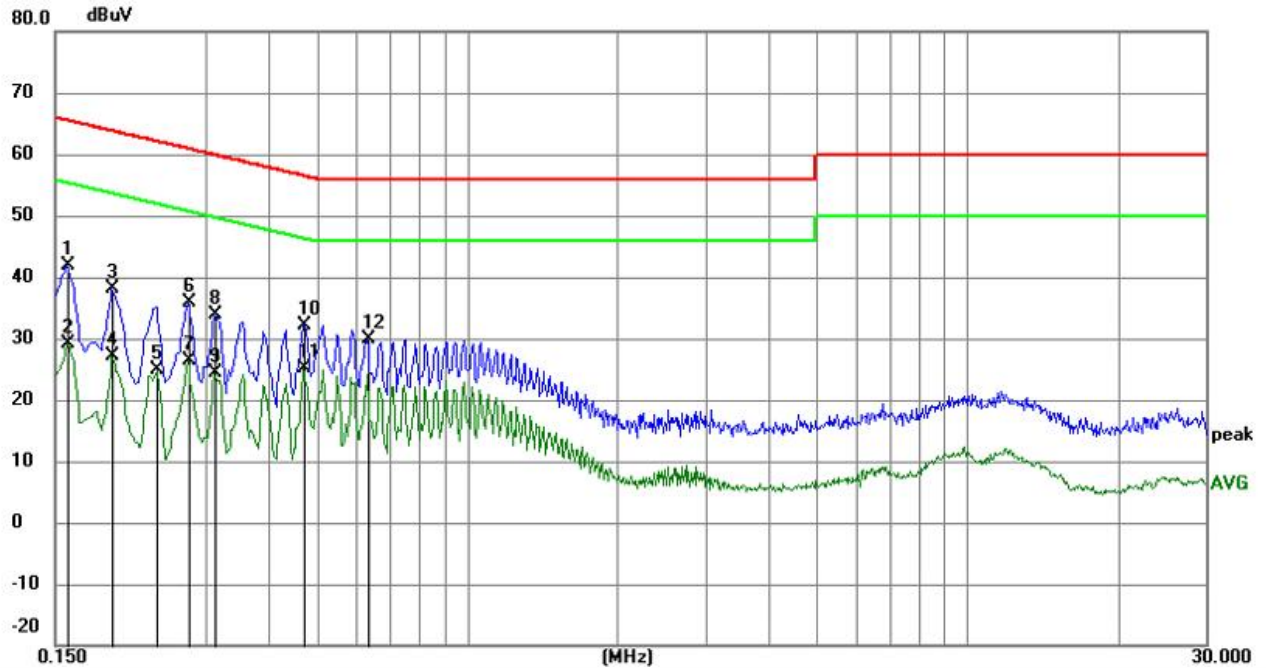
5.2.1 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
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:	<ol style="list-style-type: none"> 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 50Ω/50μH + 5Ω 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: 2013 on conducted measurement.
Exploratory Test Mode:	Keep the EUT in transmitting mode with modulation.
Final Test Mode:	Through Pre-scan, find the 916MHz of data is the worst case. Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	31.49	10.27	41.76	65.52	-23.76	QP	
2		0.1590	18.95	10.27	29.22	55.52	-26.30	AVG	
3		0.1949	27.83	10.22	38.05	63.83	-25.78	QP	
4		0.1949	17.00	10.22	27.22	53.83	-26.61	AVG	
5		0.2400	14.77	10.18	24.95	52.10	-27.15	AVG	
6		0.2760	25.74	10.15	35.89	60.94	-25.05	QP	
7		0.2760	16.34	10.15	26.49	50.94	-24.45	AVG	
8		0.3120	23.66	10.13	33.79	59.92	-26.13	QP	
9		0.3120	14.23	10.13	24.36	49.92	-25.56	AVG	
10		0.4695	22.11	10.08	32.19	56.52	-24.33	QP	
11	*	0.4695	15.00	10.08	25.08	46.52	-21.44	AVG	
12		0.6315	19.84	10.11	29.95	56.00	-26.05	QP	

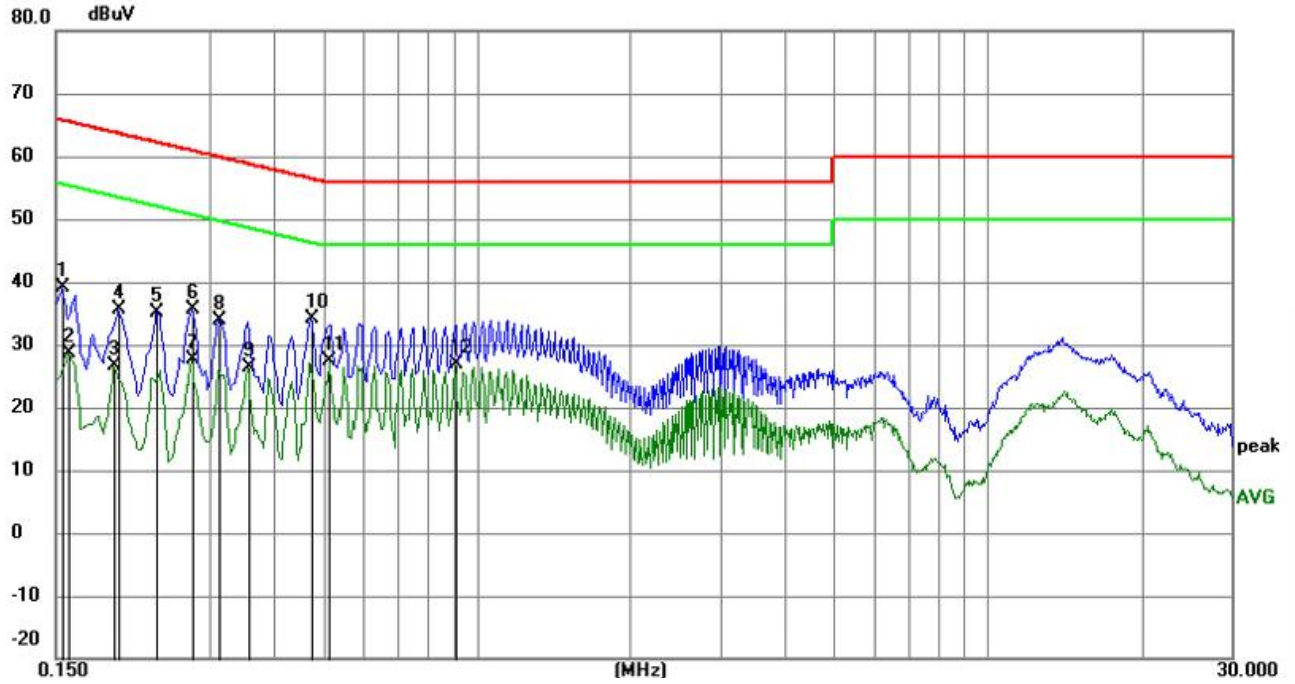
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

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Neutral line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	28.96	10.28	39.24	65.75	-26.51	QP	
2		0.1590	18.36	10.27	28.63	55.52	-26.89	AVG	
3		0.1949	16.49	10.22	26.71	53.83	-27.12	AVG	
4		0.1995	25.51	10.21	35.72	63.63	-27.91	QP	
5		0.2355	25.03	10.18	35.21	62.25	-27.04	QP	
6		0.2760	25.42	10.15	35.57	60.94	-25.37	QP	
7		0.2760	17.37	10.15	27.52	50.94	-23.42	AVG	
8		0.3120	23.84	10.13	33.97	59.92	-25.95	QP	
9		0.3570	16.20	10.11	26.31	48.80	-22.49	AVG	
10		0.4740	24.01	10.08	34.09	56.44	-22.35	QP	
11	*	0.5144	17.40	10.08	27.48	46.00	-18.52	AVG	
12		0.9060	16.67	10.17	26.84	46.00	-19.16	AVG	

Remark:

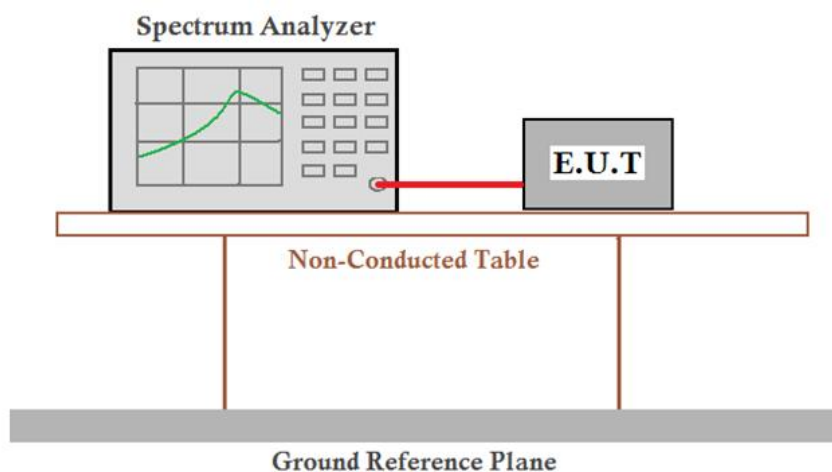
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.2.2 Duty Cycle

Test Requirement: 47 CFR Part 15C Section 15.35 (c)

Test Method: ANSI C63.10:2013

Test Setup:



Limit: N/A

Test Mode: Transmitting mode

Test Results: Pass

Note: The test data please refer to Appendix of EED32R81174001

5.2.3 Radiated Spurious Emissions

Test Requirement: 47 CFR Part 15C Section 15.249 and 15.209 and 15.205

Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10kHz	Average

Limit:
(Spurious Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Limit:
(Field strength of the fundamental signal)

Frequency	Limit (dBμV/m @3m)	Remark
902MHz-928MHz	94.0	Average Value
	114.0	Peak Value

Test Setup:

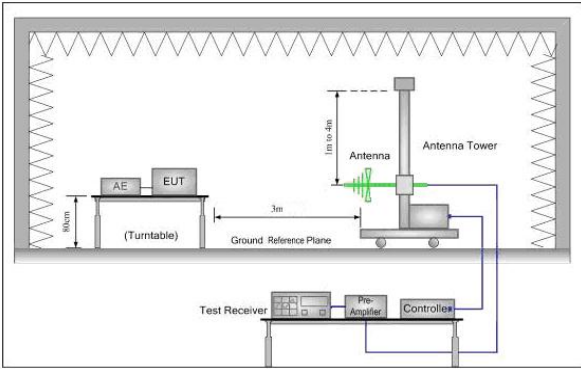
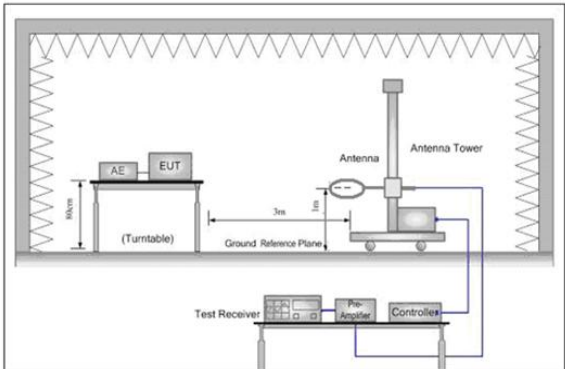


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

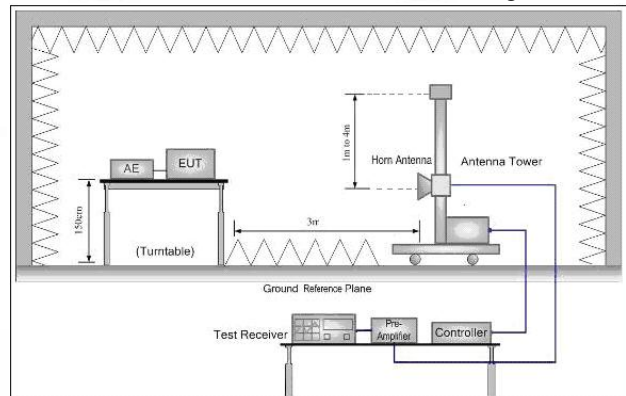


Figure 3. Above 1GHz

Test Procedure:

Below 1GHz test procedure as below:

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

Different from above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 metre to 1.5 metre (Above 18GHz the distance is 1 meter and table is 1.5 metre).

Test the EUT in the only channel .

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which is the worst case.

Repeat above procedures until all frequencies measured were complete.

Transmitting mode

Test Mode:

Test Results:

Pass

Test data:
Field Strength of the Fundamental Signal:

The report only records the worst data (CH4).

Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20*log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	T on time =4.9ms
	T period =255.1ms
	PDCF= -34.33

Test channel:	CH4
---------------	-----

Antenna polarization: Horizontal

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
916	79.23	27.11	106.34	114.00	-7.66	Peak
916	-	-	72.01	94.00	-21.99	Average

Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
916	73.52	27.11	100.63	114.00	-13.37	Peak
916	-	-	66.30	94.00	-27.70	Average

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

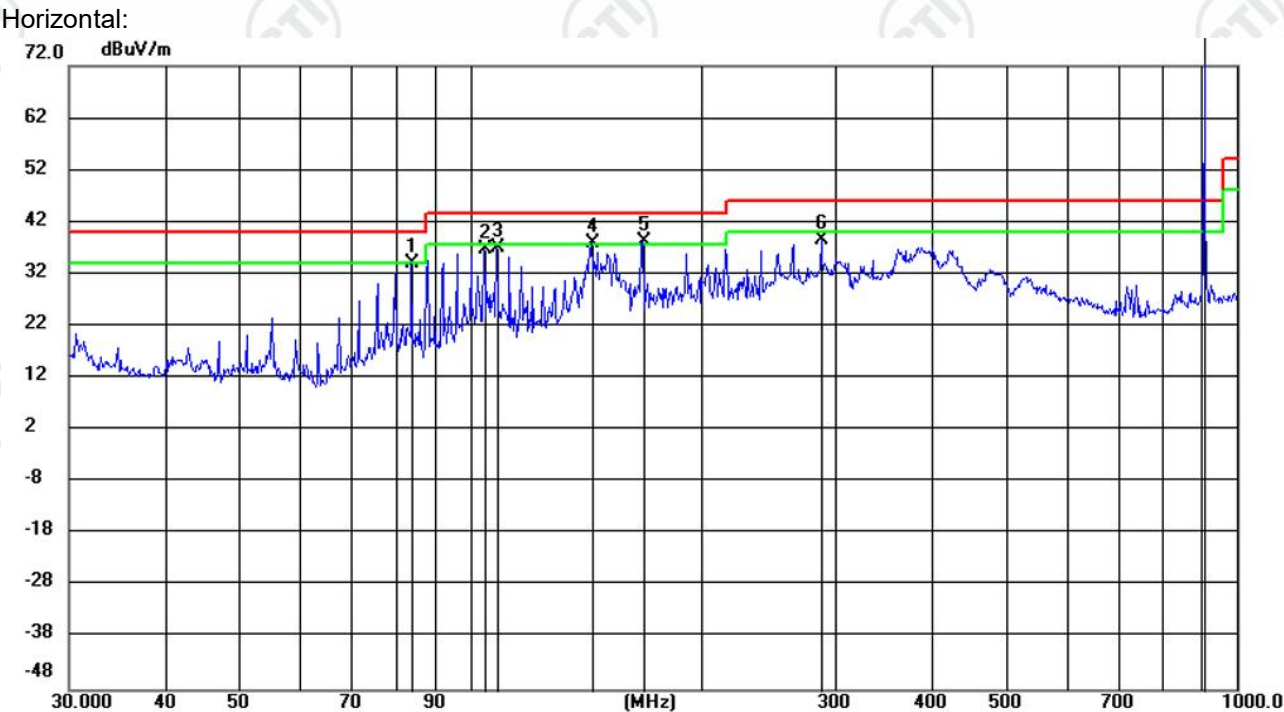
Spurious Emissions

9KHz-30MHz:

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

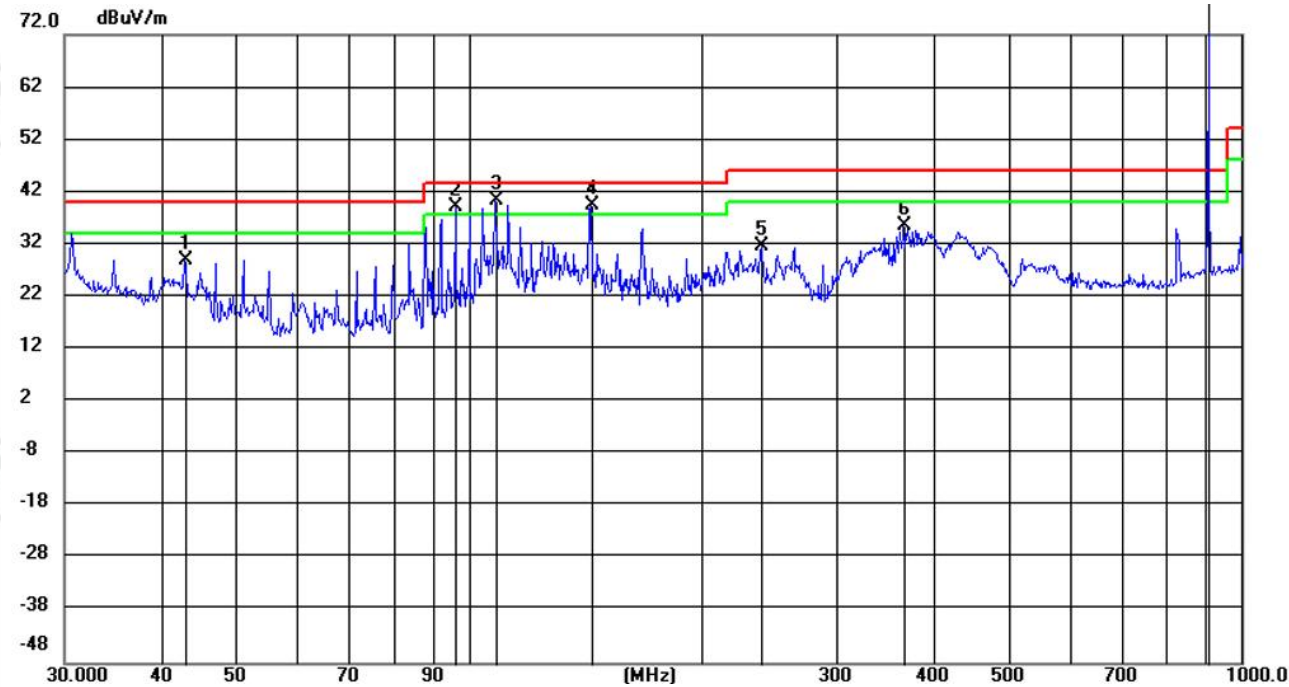
30MHz-1GHz & Restricted bands:

Test channel: CH1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		83.9626	23.56	10.44	34.00	40.00	-6.00	QP	200	360
2		104.4444	23.14	13.74	36.88	43.50	-6.62	QP	200	5
3		108.5518	22.99	14.02	37.01	43.50	-6.49	QP	200	5
4	!	143.9556	27.56	10.33	37.89	43.50	-5.61	QP	200	5
5	!	168.0008	27.15	10.96	38.11	43.50	-5.39	QP	200	14
6		287.9904	22.80	15.82	38.62	46.00	-7.38	QP	100	254
7	*	908.5509	76.51	27.04	103.55	46.00	57.55	peak	100	254

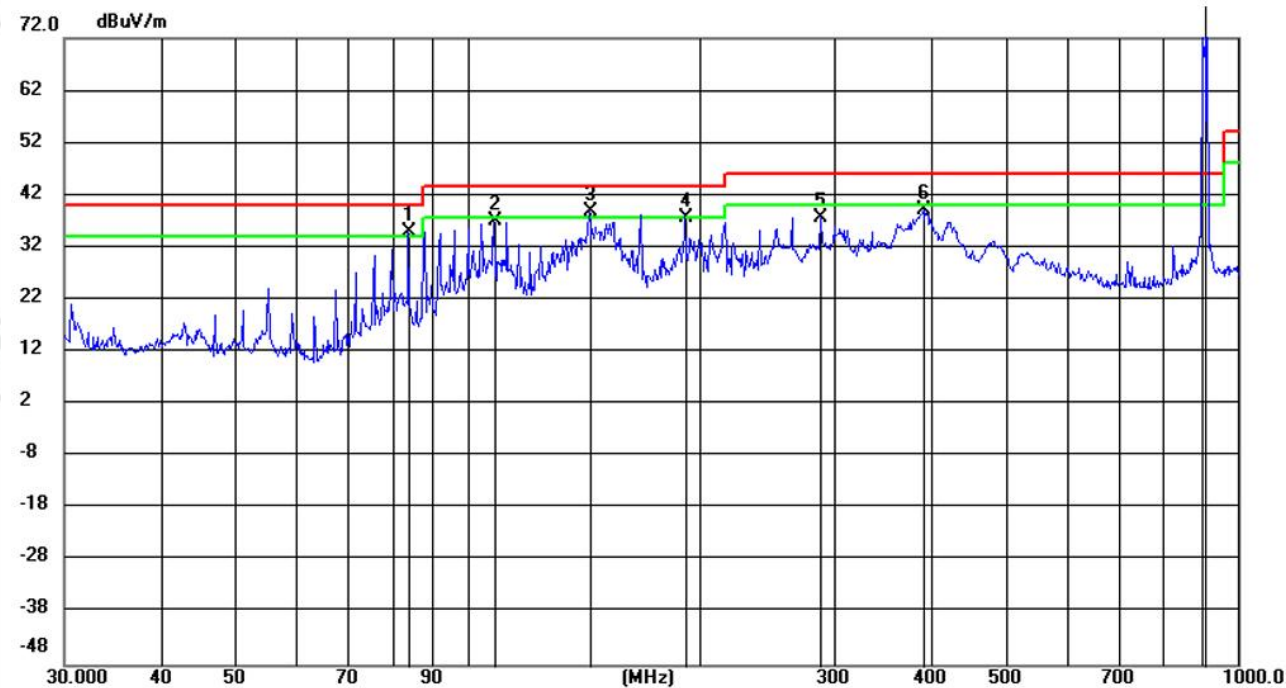
Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		43.0052	15.50	13.60	29.10	40.00	-10.90	QP	100	6
2	!	96.2503	26.46	12.78	39.24	43.50	-4.26	QP	100	60
3	!	108.5328	26.25	14.02	40.27	43.50	-3.23	QP	100	51
4	!	143.9052	29.07	10.33	39.40	43.50	-4.10	QP	100	242
5		239.9452	17.41	14.10	31.51	46.00	-14.49	QP	100	352
6		366.5658	17.24	18.45	35.69	46.00	-10.31	QP	100	6
7	*	908.5509	72.40	27.04	99.44	46.00	53.44	peak	100	223

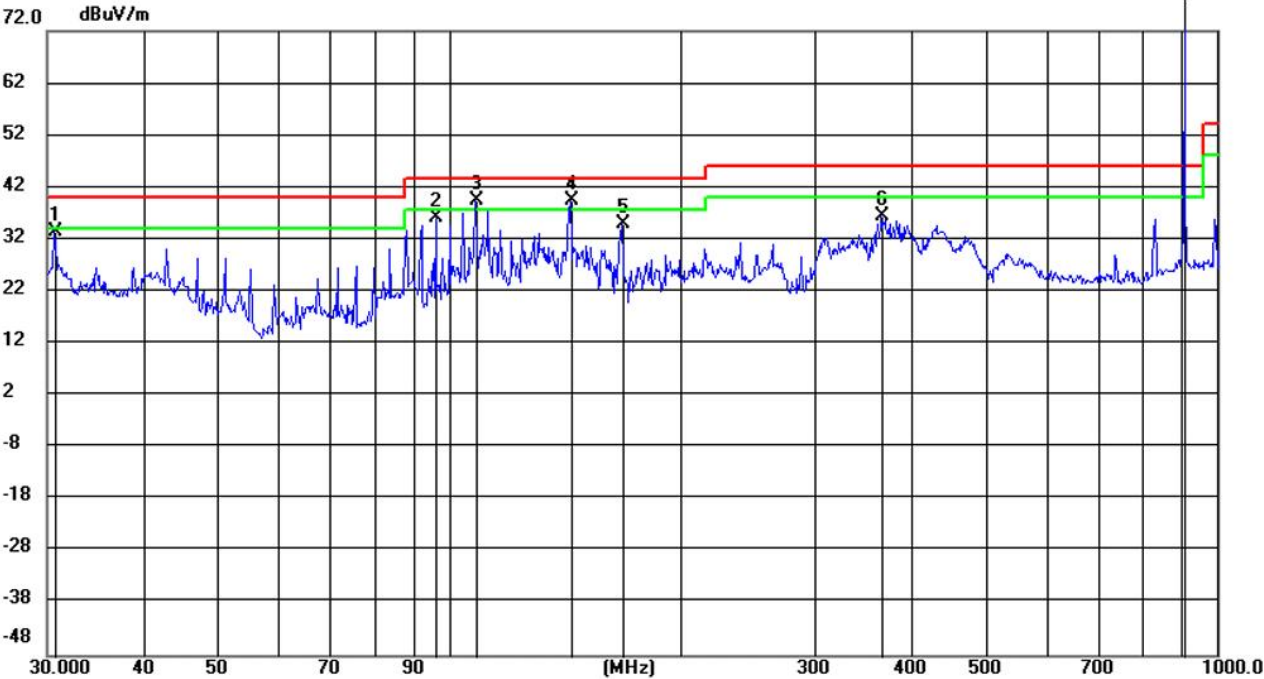
Test channel:	CH2
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Horizontal:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1	!	83.9626	24.38	10.44	34.82	40.00	-5.18	QP 199	15	
2		108.5518	22.93	14.02	36.95	43.50	-6.55	QP 199	323	
3	!	144.1324	28.49	10.33	38.82	43.50	-4.68	QP 199	6	
4	!	191.9468	25.23	12.57	37.80	43.50	-5.70	QP 199	6	
5		287.9400	21.92	15.82	37.74	46.00	-8.26	QP 100	238	
6		391.6828	20.05	19.24	39.29	46.00	-6.71	QP 100	211	
7	*	908.5509	79.24	27.04	106.28	46.00	60.28	peak 100	175	

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		30.7132	20.95	12.51	33.46	40.00	-6.54	QP	100	96
2		96.2503	23.31	12.78	36.09	43.50	-7.41	QP	100	15
3	!	108.5328	25.36	14.02	39.38	43.50	-4.12	QP	100	96
4	!	143.9304	29.01	10.33	39.34	43.50	-4.16	QP	100	251
5		168.0009	24.10	10.96	35.06	43.50	-8.44	QP	200	290
6		366.5658	18.06	18.45	36.51	46.00	-9.49	QP	200	354
7	*	908.5509	74.13	27.04	101.17	46.00	55.17	peak	100	251