

FCC Test Report

Report No.: CIVM-ESH-P25030557B-1

FCC ID: 2AG62LDT83

Product: Electric Monitor Arm

Test Model: LDT83-C01W, LDT83-C02W

Received Date: Mar.18, 2025

Test Date: Mar.18 to Apr.09, 2025

Issued Date: Apr.10, 2025

Applicant: LUMI LEGEND CORPORATION

Address: 22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China

Manufacturer: LUMI LEGEND CORPORATION

Address: 22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

Lab Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)



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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results	5
2.1 Test Instruments	6
2.2 Measurement Uncertainty	7
2.3 Modification Record	7
2.4 Support Units	7
3 General Information	8
3.1 General Description of EUT	8
3.1.1 Test Mode Applicability:	9
3.1.2 Test Condition:	10
3.2 Description of Support Units	10
3.3 General Description of Applied Standards	10
4 Test Procedure and Results	11
4.1 AC Power Conducted Emission	11
4.1.1 Limits	11
4.1.2 Test Procedures	11
4.1.3 Deviation from Test Standard	11
4.1.4 Test Setup	12
4.1.5 EUT Operating Conditions	12
4.1.6 Test Results	13
4.2 Radiated Emissions Measurement	17
4.2.1 Test Procedure Reference	18
4.2.2 Test Procedures	18
4.2.3 Deviation from Test Standard	19
4.2.4 Test Setup	19
4.2.5 Test Results	21
4.3 20dB Spectrum Bandwidth Measurement	26
4.3.1 Limit	26
4.3.2 Test Setup	26
4.3.3 Test Procedures	26
4.3.4 Deviation of Test Standard	26
4.3.5 Test Results	27
5 Pictures of Test Arrangements	28



Release Control Record

Issue No.	Description	Date Issued
CIVM-ESH-P25030557B-1	Original release	Apr.10, 2025

1 Certificate of Conformity

Product: ELECTRIC MONITOR ARM

Brand: --

Test Model: LDT83-C01W, LDT83-C02W

Applicant: LUMI LEGEND CORPORATION

Test Date: Mar.18 to Apr.09, 2025

Standards: 47 CFR FCC Part 15, Subpart C

ANSI C63.10:2020

The above equipment has been tested by BUREAU VERITAS ADT (Shanghai) Corporation, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



, Date:

Apr.10, 2025

Yan ZHOU

Project Engineer

Approved by :



Sean YU

RF Supervisor

, Date:

Apr.10, 2025

2 Summary of Test Results

The EUT has been tested according to the following specifications:

47 CFR FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used.
§15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
§15.209	Radiated Emission	PASS	Meet the requirement of limit.
§15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.

2.1 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Loop Antenna	ETS-LINDGR EN	6502	E1A1039	7/30/2024	7/29/2026
Hybrid Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	E1A1012	8/17/2023	8/16/2025
Horn Antenna(1GHz -18GHz)	Schwarzbeck	BBHA9120D	E1A1017	7/31/2024	7/30/2026
Horn Antenna(18GHz-40GHz)	Com-Power	AH-840	E1A1040	7/31/2024	7/30/2026
Pre-Amplifier(0.1MHz~1300MHz)	Agilent	8447D	E1A2001	2/17/2025	2/16/2026
Pre-Amplifier(18GHz-40GHz)	EMC Instruments Corporation	EMC184045SE	E1A2008	8/15/2024	8/14/2025
EMI Test Receiver	R&S	ESR7	E1R1005	2/17/2025	2/16/2026
EMI Test Spectrum	Keysight	N9030B	E1S1003	8/28/2024	8/27/2025
Signal Analyzer	Keysight	N9020A	E1S1004	2/17/2025	2/16/2026
LISN(signle phase)	R&S	ENV216	E1L1011	8/12/2024	8/11/2025
EMI Test Receiver	R&S	ESR3	E1R1008	5/31/2024	5/30/2025
RF Control Unit	Toscend	JS0806-2	E1C5003	N/A	N/A
Test Software	Toscend	JS32-CE	5.0.0.1	N/A	N/A
Test Software	Toscend	JS32-RE	5.0.0	N/A	N/A
Test Software	Toscend	JS1120-3	V3.2.22	N/A	N/A

2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Frequency	Expanded Uncertainty ($k=2$) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.83 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.36 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.47 dB
	6GHz ~ 18GHz	3.75 dB
	18GHz ~ 40GHz	3.30 dB

2.3 Modification Record

There were no modifications required for compliance.

2.4 Support Units

Description	Manufacturer	Model No.	Serial No.
Dummy Load	N/A	N/A	N/A
Adaptor	Huizhou Zhongbang Electronics Co.,Ltd.	ZB-H290020A_C	N/A

3 General Information

3.1 General Description of EUT

Product	ELECTRIC MONITOR ARM
Brand	--
Test Model	LDT83-C01W, LDT83-C02W
Power Rating	100-240V~,50-60 Hz, 1.6A
Modulation Type	FSK
Modulation Technology	Qi
Operating Frequency	110-205KHz
Antenna Type	Coil Antenna
Antenna Connector	--

Note:

1. For more details, please refer to the User's manual of the EUT.
2. Wireless maximum transmitted power of the EUT is 10W.

3.1.1 Test Mode Applicability:

EUT Configure Mode	Applicable to				Description
	RE (9 kHz~30MHz)	RE (30MHz~1GHz)	PLC	BW	
-	√	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1GHz **RE< 1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **BW**: 20dB Spectrum Bandwidth

Radiated Emission Test RE (9 kHz~30MHz):

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	Charging	110-205KHz	110-205KHz	FSK

Radiated Emission Test RE (30MHz~1GHz):

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	Charging	110-205KHz	110-205KHz	FSK

Power Line Conducted Emission Test:

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
-	Charging	110-205KHz	110-205KHz	FSK

3.1.2 Test mode

The EUT was tested under the following modes, the final worst mode were marked in boldface and recorded in this report.

Test Mode	Test setup configuration	Changing current condition
Mode 1	EUT charging to receiver load	Near 100% battery status
Mode 2	EUT charging to receiver load	50% battery status
Mode 3	EUT charging to receiver load	<1% battery status
Mode 4	EUT charging standby mode	

3.1.3 Test Condition:

Applicable to	Normal Environmental Conditions	Normal Input Power
RE (9 kHz~30MHz)	23deg. C, 58%RH	AC 120V, 60Hz
RE (30MHz~1GHz)	23deg. C, 58%RH	AC 120V, 60Hz
PLC	23deg. C, 58%RH	AC 120V, 60Hz & 230V, 50Hz

3.2 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

FCC Part 15, Subpart C (15.207, 15.209)

ANSI C63.10: 2020

All relaxed test items have been performed and recorded as per the above standard.

4 Test Procedure and Results

4.1 AC Power Conducted Emission

4.1.1 Limits

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 Test Procedures

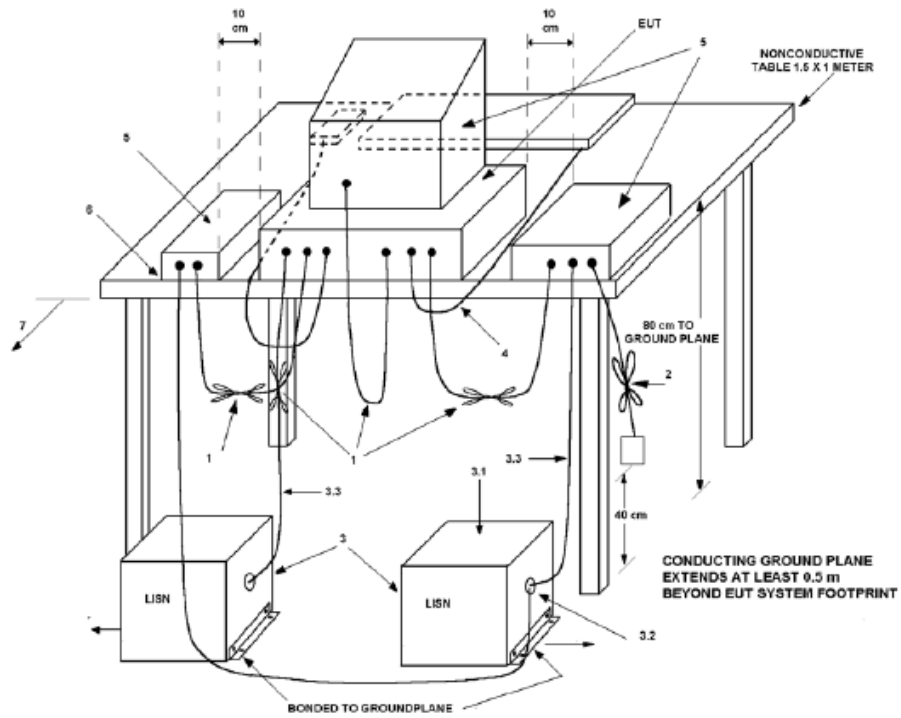
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.1.3 Deviation from Test Standard

No deviation.

4.1.4 Test Setup



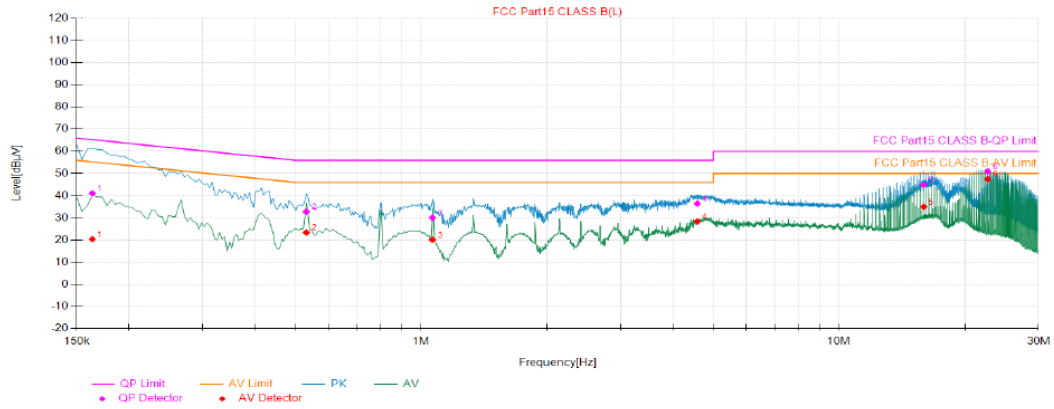
For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.5 EUT Operating Conditions

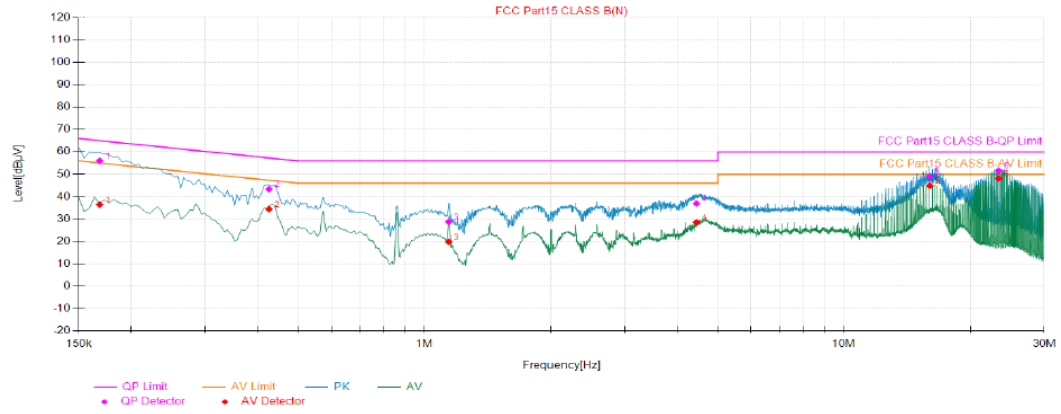
Same as 4.1.6.

4.1.6 Test Results

AC 230V 50Hz



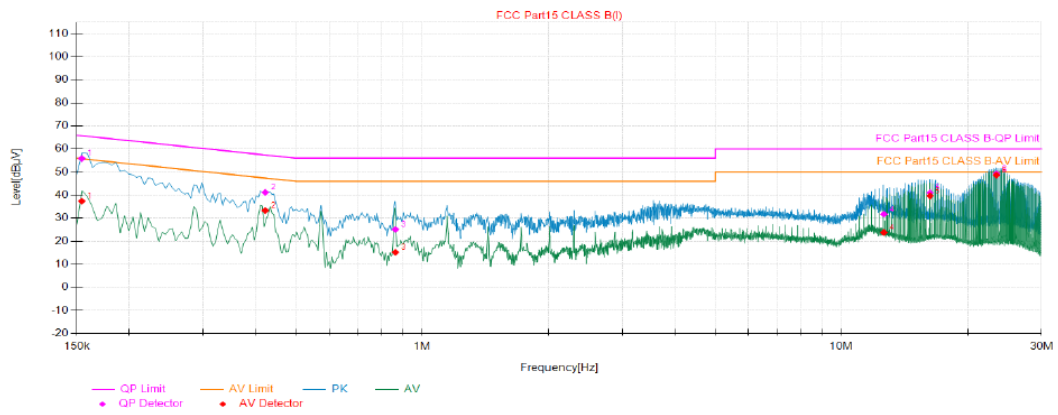
Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.16	9.84	31.23	41.07	65.28	24.21	10.54	20.38	55.28	34.90
2	0.53	9.59	23.21	32.80	56.00	23.20	13.74	23.33	46.00	22.67
3	1.07	9.60	20.45	30.05	56.00	25.95	10.47	20.07	46.00	25.93
4	4.58	9.85	26.57	36.42	56.00	19.58	18.47	28.32	46.00	17.68
5	15.93	10.07	34.86	44.93	60.00	15.07	24.90	34.97	50.00	15.03
6	22.68	10.05	40.87	50.92	60.00	9.08	37.37	47.42	50.00	2.58



Final Data List

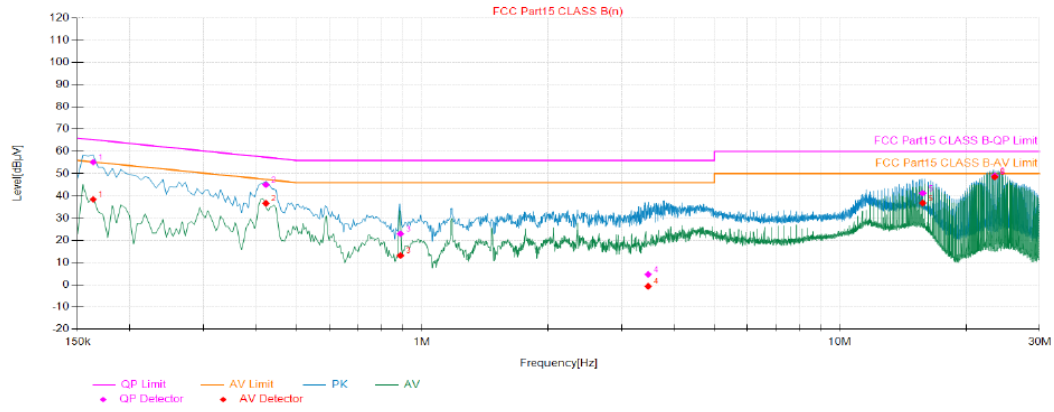
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.17	9.81	46.26	56.07	65.04	8.97	26.64	36.45	55.04	18.59
2	0.43	9.61	33.74	43.35	57.33	13.98	24.85	34.46	47.33	12.87
3	1.14	9.61	19.17	28.78	56.00	27.22	10.16	19.77	46.00	26.23
4	4.45	9.79	27.12	36.91	56.00	19.09	18.76	28.55	46.00	17.45
5	16.00	10.13	38.88	49.01	60.00	10.99	34.74	44.87	50.00	5.13
6	23.37	10.09	41.49	51.58	60.00	8.42	38.03	48.12	50.00	1.88

AC 120V 60Hz



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.15	9.72	46.16	55.88	65.77	9.89	27.67	37.39	55.77	18.38
2	0.42	9.50	31.67	41.17	57.40	16.23	23.81	33.31	47.40	14.09
3	0.86	9.40	15.70	25.10	56.00	30.90	5.79	15.19	46.00	30.81
4	12.62	9.99	21.73	31.72	60.00	28.28	13.77	23.76	50.00	26.24
5	16.26	10.03	30.96	40.99	60.00	19.01	29.63	39.66	50.00	10.34
6	23.43	9.94	39.38	49.32	60.00	10.68	38.72	48.66	50.00	1.34



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.16	9.68	45.46	55.14	65.28	10.14	28.74	38.42	55.28	16.86
2	0.42	9.51	35.51	45.02	57.38	12.36	27.13	36.64	47.38	10.74
3	0.89	9.36	13.52	22.88	56.00	33.12	3.76	13.12	46.00	32.88
4	3.47	9.75	-5.10	4.65	56.00	51.35	-10.46	-0.71	46.00	46.71
5	15.75	9.96	31.25	41.21	60.00	18.79	26.82	36.78	50.00	13.22
6	23.43	9.96	39.04	49.00	60.00	11.00	38.48	48.44	50.00	1.56

4.2 Radiated Emissions Measurement

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15C 15.209

Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

4.2.1 Test Procedure Reference

ANSI C63.10 Section 6.3 (General Requirements)

4.2.2 Test Procedures

For Radiated emission below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degree 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.
- Both X, Y and Z axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotate table was turned from 0 degree to 360 degree to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

For Radiated emission above 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. 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 height of antenna 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.

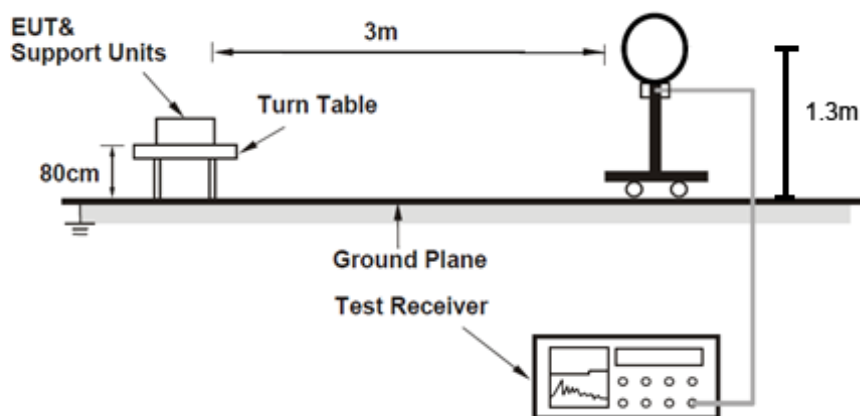
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

4.2.3 Deviation from Test Standard

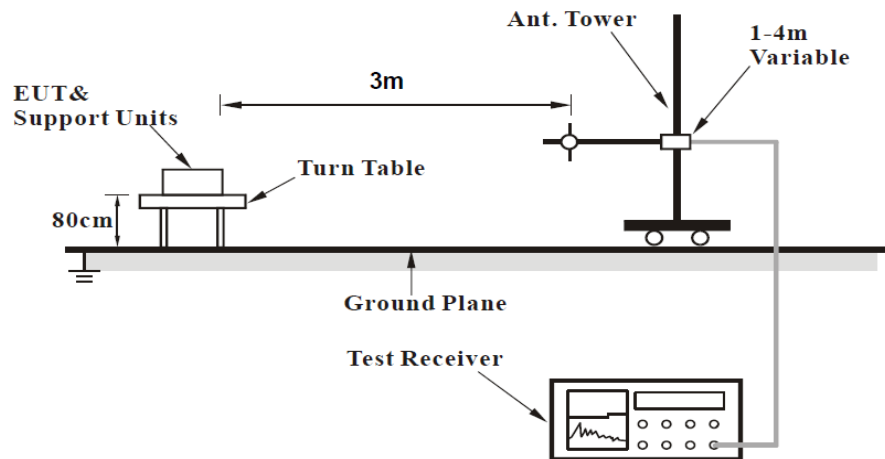
No deviation.

4.2.4 Test Setup

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz

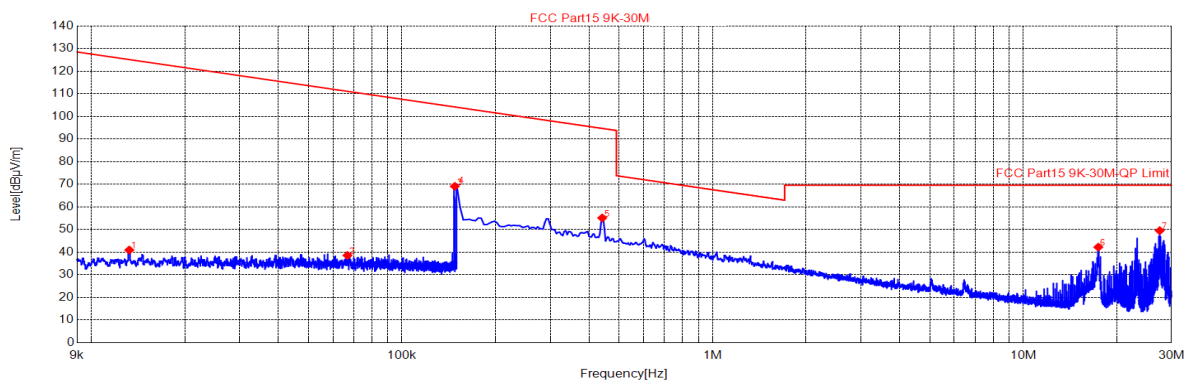


For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

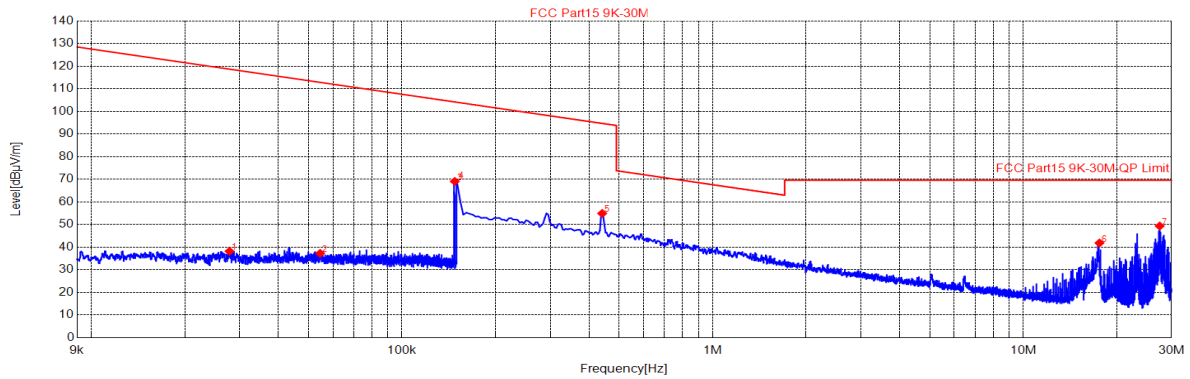
Radiated Emissions Range 9kHz~30MHz

Channel	110-205KHz	Detector Function	Quasi-Peak (QP)
Frequency Range	9KHz ~ 30MHz	Antenna Polarity	Parallel
Mode	Operating		



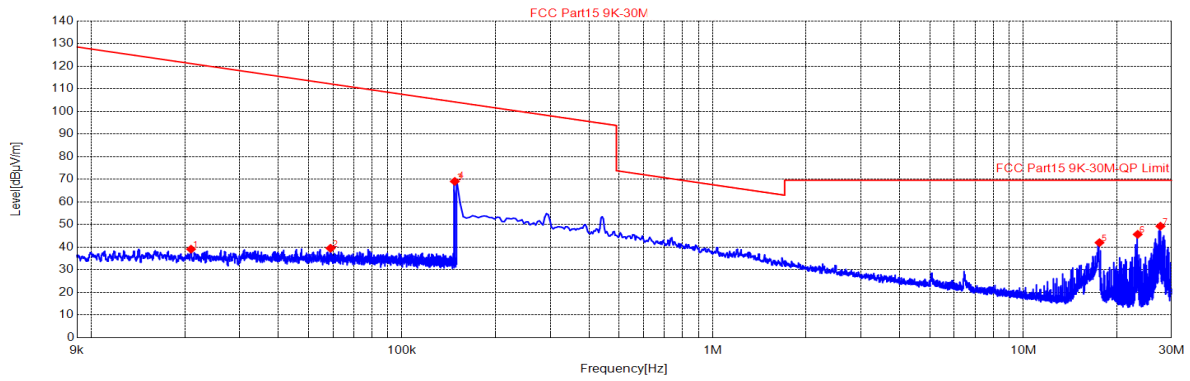
NO.	Freq. [MHz]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]
1	0.01	16.81	40.93	125.16	84.23	QP	100	170
2	0.07	11.12	38.52	111.12	72.60	QP	100	162
3	0.15	10.88	69.10	104.21	35.11	QP	100	170
4	0.15	10.88	70.04	104.08	34.04	QP	100	336
5	0.44	10.80	55.10	94.71	39.61	QP	100	324
6	17.45	8.98	42.18	69.54	27.36	QP	100	190
7	27.50	6.94	49.50	69.54	20.04	QP	100	190

Channel	110-205KHz	Detector Function	Quasi-Peak (QP)
Frequency Range	9KHz ~ 30MHz	Antenna Polarity	Perpendicular
Mode	Operating		



NO.	Freq. [MHz]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]
1	0.03	12.63	38.15	118.71	80.56	QP	100	170
2	0.05	11.28	37.22	112.88	75.66	QP	100	111
3	0.15	10.88	69.07	104.21	35.14	QP	100	170
4	0.15	10.88	69.88	104.08	34.20	QP	100	328
5	0.44	10.80	54.90	94.71	39.81	QP	100	321
6	17.59	8.96	41.81	69.54	27.73	QP	100	190
7	27.50	6.94	49.34	69.54	20.20	QP	100	190

Channel	110-205KHz	Detector Function	Quasi-Peak (QP)
Frequency Range	9KHz ~ 30MHz	Antenna Polarity	Ground-parallel
Mode	Operating		



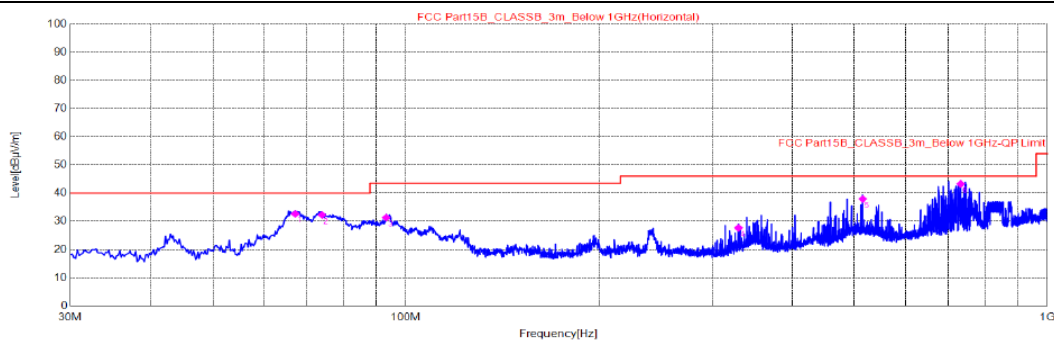
NO.	Freq. [MHz]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]
1	0.02	13.72	39.09	121.19	82.10	QP	100	170
2	0.06	11.19	39.49	112.21	72.72	QP	100	0
3	0.15	10.88	69.07	104.21	35.14	QP	100	170
4	0.15	10.88	69.91	104.08	34.17	QP	100	311
5	17.60	8.96	41.99	69.54	27.55	QP	100	190
6	23.36	7.82	45.63	69.54	23.91	QP	100	190
7	27.65	6.91	49.25	69.54	20.29	QP	100	190

Radiated Emissions Range 30MHz~1GHz

Below is the worst test data

Channel	110-205KHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz~1GHz	Antenna Polarity	Horizontal
Mode	Operating		

Test Plot:



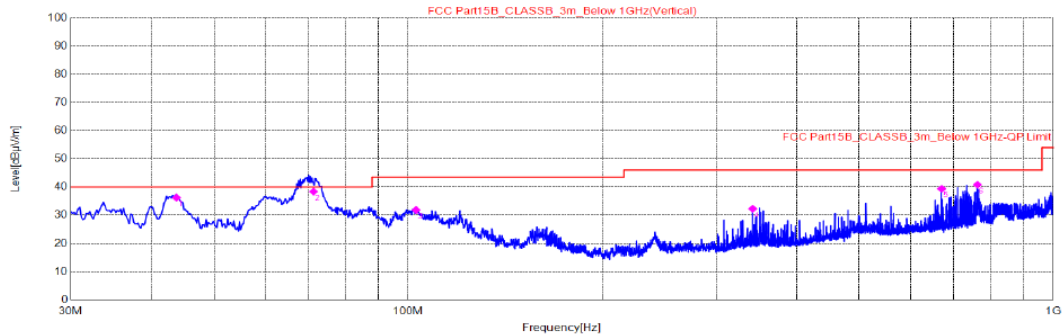
Final Data List										
NO.	Freq.[MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	67.25	44.28	-11.64	32.64	40.00	7.36	QP	200	126	Horizontal
2	74.04	45.18	-12.93	32.25	40.00	7.75	QP	200	183	Horizontal
3	93.24	46.93	-15.58	31.35	43.50	12.15	QP	200	214	Horizontal
4	330.12	35.04	-7.39	27.65	46.00	18.35	QP	200	167	Horizontal
5	515.39	41.81	-3.88	37.93	46.00	8.07	QP	200	103	Horizontal
6	732.67	42.79	0.47	43.26	46.00	2.74	QP	200	180	Horizontal

REMARKS:

1. Emission Level(dBuV/m) = Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

Channel	110-205KHz	Detector Function	Quasi-Peak (QP)
Frequency Range	30MHz ~ 1GHz	Antenna Polarity	Vertical

Test Plot:



Final Data List

NO.	Freq.[MHz]	Reading [dBμV]	Factor [dB]	Value [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle[°]	Polarity
1	43.77	47.12	-10.89	36.23	40.00	3.77	QP	100	178	Vertical
2	71.36	50.60	-12.22	38.38	40.00	1.62	QP	107	122.8	Vertical
3	102.94	46.2	-14.34	31.86	43.50	11.64	QP	100	83	Vertical
4	341.95	39.88	-7.61	32.27	46.00	13.73	QP	100	89	Vertical
5	671.56	40.42	-1.02	39.40	46.00	6.60	QP	100	149	Vertical
6	762.54	39.53	1.29	40.82	46.00	5.18	QP	100	238	Vertical

REMARKS:

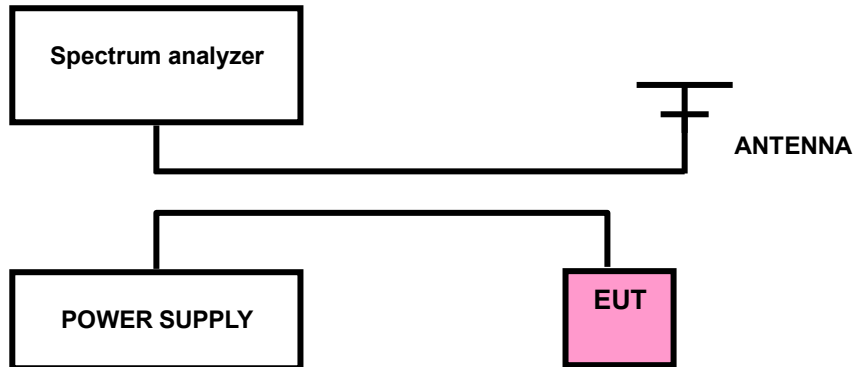
1. Emission Level(dBuV/m) = Original Spectrum reading (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission Level

4.3 20dB Spectrum Bandwidth Measurement

4.3.1 Limit

Reporting only

4.3.2 Test Setup



4.3.3 Test Procedures

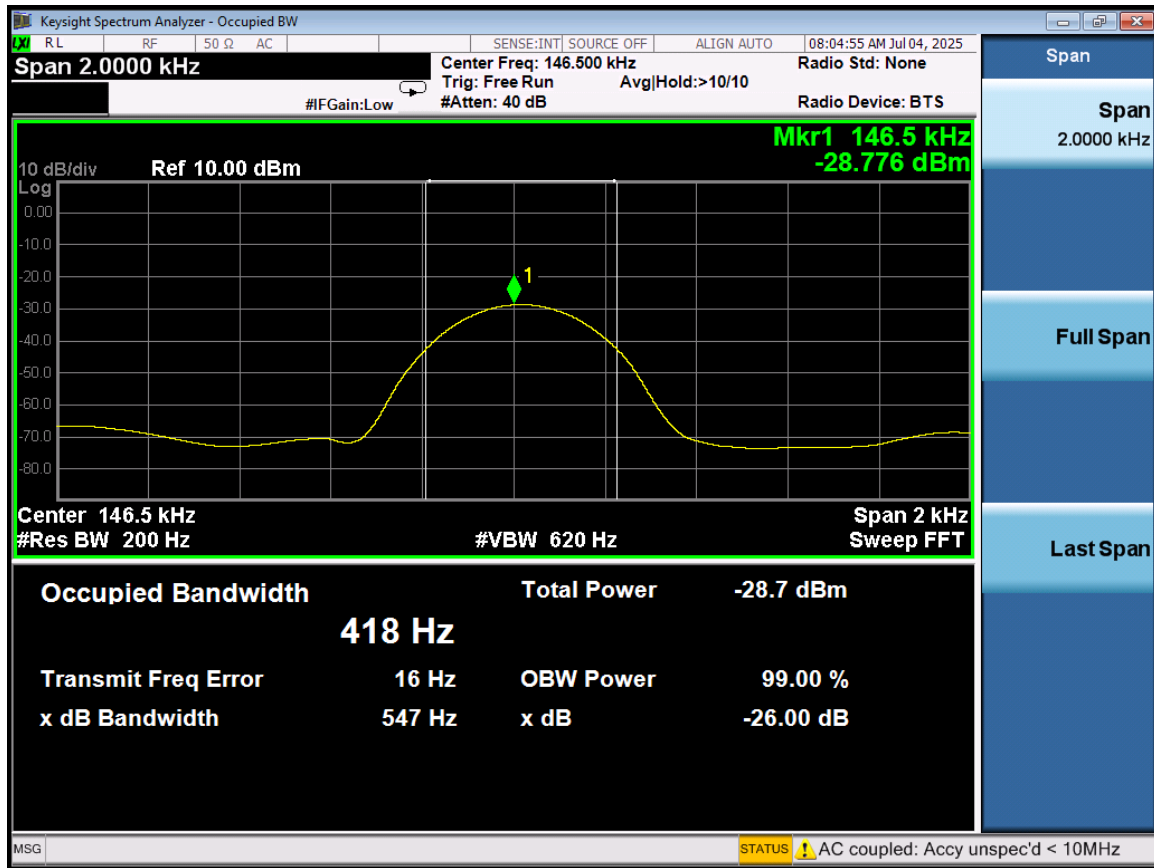
1. The resolution bandwidth of 200 Hz and the video bandwidth of 620 Hz were used.
2. EUT in peak Max hold mode.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

4.3.4 Deviation of Test Standard

No deviation.

4.3.5 Test Results

TEST MODE	CHANNEL FREQUENCY (KHz)	20dB BANDWIDTH (Hz)
Wireless Charging	146.5	547



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

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