



FCC Test Report

Application No.: DNT2604091316R02430-03030
Applicant: SILVERWIZ LLC dba TWRAPS
Address of Applicant: 535 Tananger Heights Ln, Pleasant Hill, CA, 94523 USA.
EUT Description: WIRELESS CHARGER
Model No.: W268
Additional Model(s): /
FCC ID: 2BD5I-W268
Power Supply: DC 12V From Adapter Input AC 120V/60Hz
Trade Mark: TWRAPS
Standards: 47 CFR Part 15, Subpart C
ANSI C63.10: 2020
Date of Receipt: 2026/04/09
Date of Test: 2026/04/10 to 2026/04/20
Date of Issue: 2026/04/20
Test Result: **PASS ***

Prepared By: Gale Lin (Testing Engineer)

Reviewed By: Wayne Lin (Project Engineer)

Approved By: Heine Shan (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Dongguan DN Testing Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 20, 2026	Valid	Original Report



1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203	--	Clause 3.1	PASS
20dB Emission Bandwidth	--	ANSI C63.10: 2020 Section 7.8.7	Clause 3.2	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2020)	Clause 3.3	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2020)	Clause 3.4	PASS

Note:

1. "N/A" denotes test is not applicable in this test report.



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2 General Information

2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Gali Lin

2.2 General Description of EUT

Manufacturer:	SILVERWIZ LLC dba TWRAPS
Address of Manufacturer:	535 Tananger Heights Ln, Pleasant Hill, CA, 94523 USA.
Test EUT Description:	WIRELESS CHARGER
Model No.:	W268
Additional Model(s):	/
Chip Type:	BQT116
Serial number:	PR2604091316R02430
Power Supply:	DC 12V From Adapter Input AC 120V/60Hz
Output Max Wireless Charge Power:	5W,7.5W,10W,15W,25W(MAX)
Trade Mark:	TWRAPS
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	110.5-205KHz,360KHz;
Modulation Technique:	ASK
Sample Type:	☐ Portable Device, ☐ Module, ☒ Mobile Device
Antenna Type:	Copper inducted coil
Remark:	*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2.3 Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

Test Item	Test Mode
Radiated Emission	Wireless Charging 5W
	Wireless Charging 7.5W
	Wireless Charging 10W
	Wireless Charging 15W
	Wireless Charging 25W
AC Power Line Conducted Emissions	Wireless Charging 5W
	Wireless Charging 7.5W
	Wireless Charging 10W
	Wireless Charging 15W
	Wireless Charging 25W

Note: The Wireless Charging with 25W and Wireless Charging with 10W Charging is worst case, only the worst case will be recorded in the report.



2.4 Description of Support Units

The EUT has been tested as an independent unit.

2.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

- **FCC, USA**

Designation Number: CN1348

- **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

- **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

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

No.	Item	Measurement Uncertainty
1	20dB Emission Bandwidth	$\pm 0.0196\%$
2	Carrier Frequency Separation	$\pm 1.9\%$
3	Number of Hopping Channel	$\pm 1.9\%$
4	Time of Occupancy	$\pm 0.028\%$
5	Max Peak Conducted Output Power	± 0.743 dB
6	Band-edge Spurious Emission	± 1.328 dB
7	Conducted RF Spurious Emission	9KHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0 dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8 dB (Below 1GHz)
		± 4.8 dB (1GHz to 6GHz)
		± 4.5 dB (6GHz to 18GHz)
		± 5.02 dB (Above 18GHz)



2.7 Equipment List

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2025-10-21	2026-10-20
LISN	R&S	ENV216	102874	2025-10-21	2026-10-20
ISN	R&S	ENY81-CA6	1309.8590.03	2025-10-21	2026-10-20

Test Equipment for Radiated Emission(30MHz-1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2025-10-21	2026-10-20
Test Software	Tonscend	JS32-RE	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2025-10-21	2026-10-20
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2025-10-21	2026-10-20
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2025-10-21	2026-10-20
Single ring magnetic field ring antenna	ETS-LINDGREN	6502	6502	2025-10-21	2026-10-20

2.8 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	DC Adapter	UGREEN	X757	NA
2	Wireless Load	YBZ	V3.1	NA



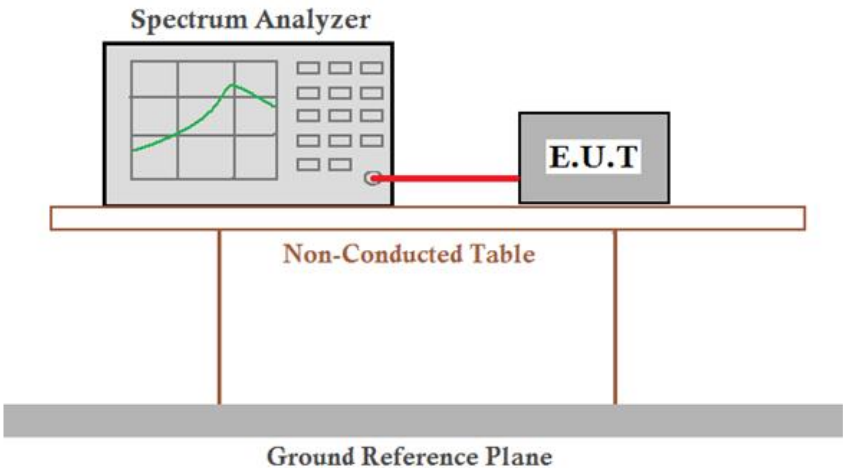
3 Test results and Measurement Data

3.1 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.	
The antennas used for this product is Coil antenna.	

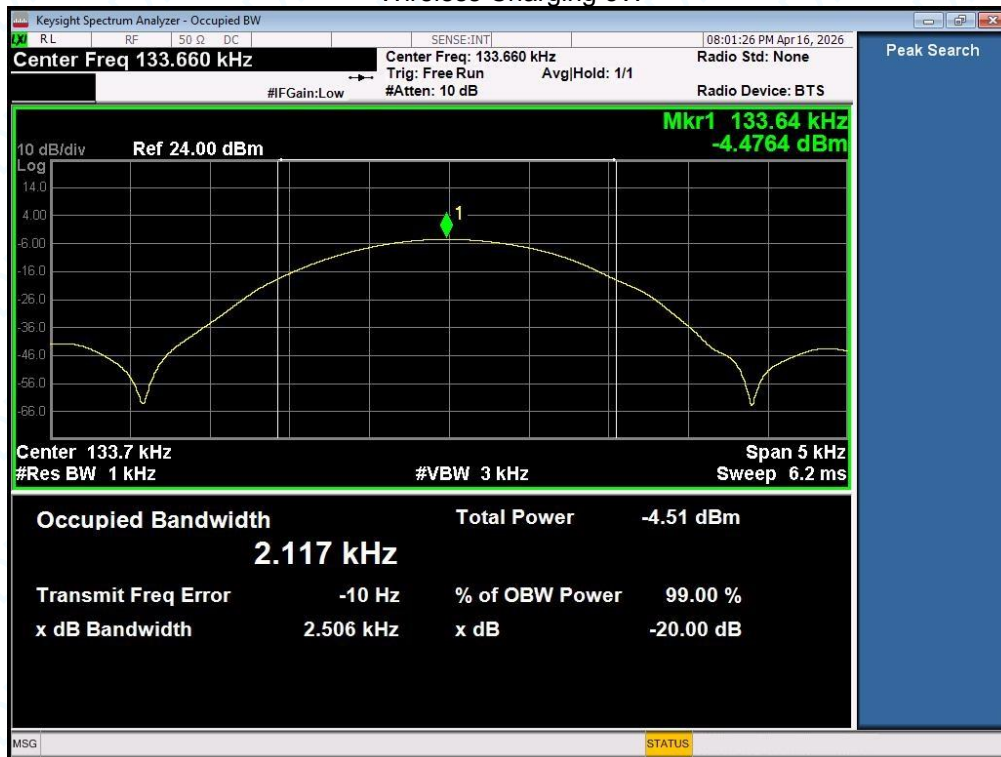


3.2 20dB Emission Bandwidth

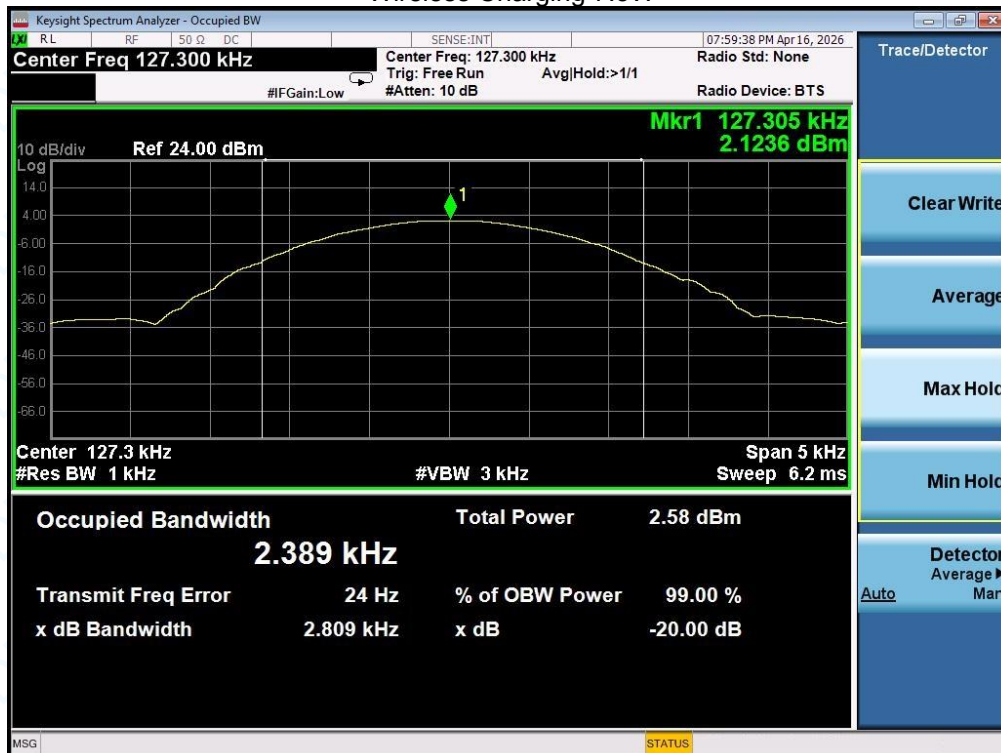
Test Requirement:	/
Test Method:	ANSI C63.10: 2020 Section 6.9.2
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.
Instruments Used:	Refer to section 2.7 for details
Exploratory Test Mode:	ASK
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	N/A
Test Results:	Pass



Wireless Charging 5W

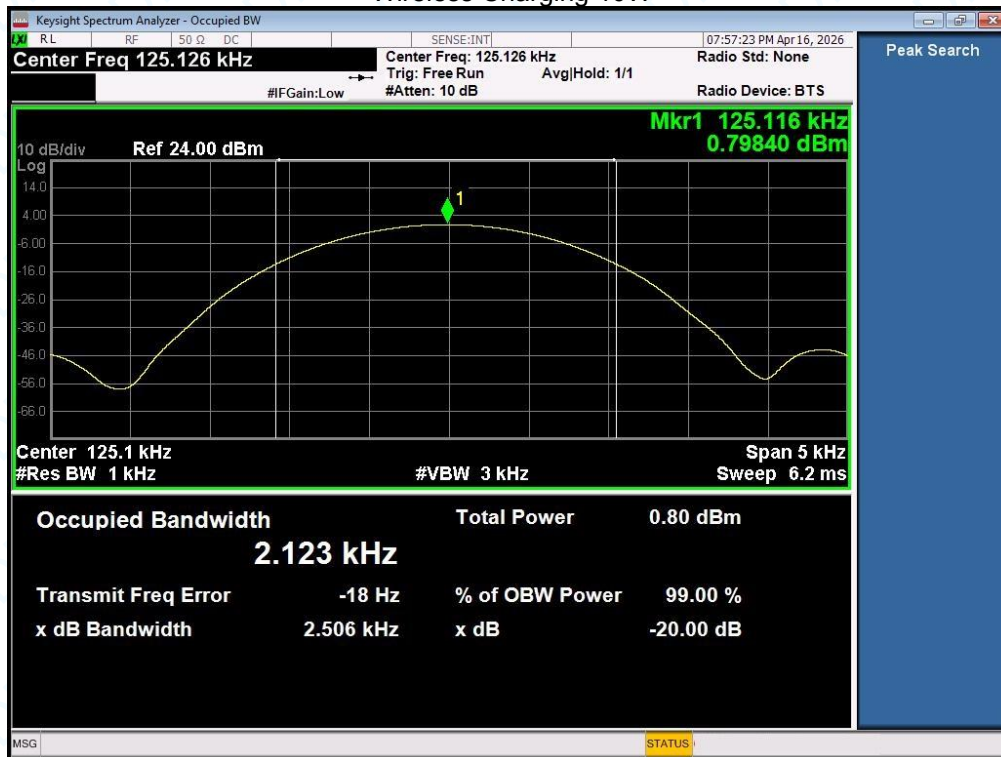


Wireless Charging 7.5W





Wireless Charging 10W

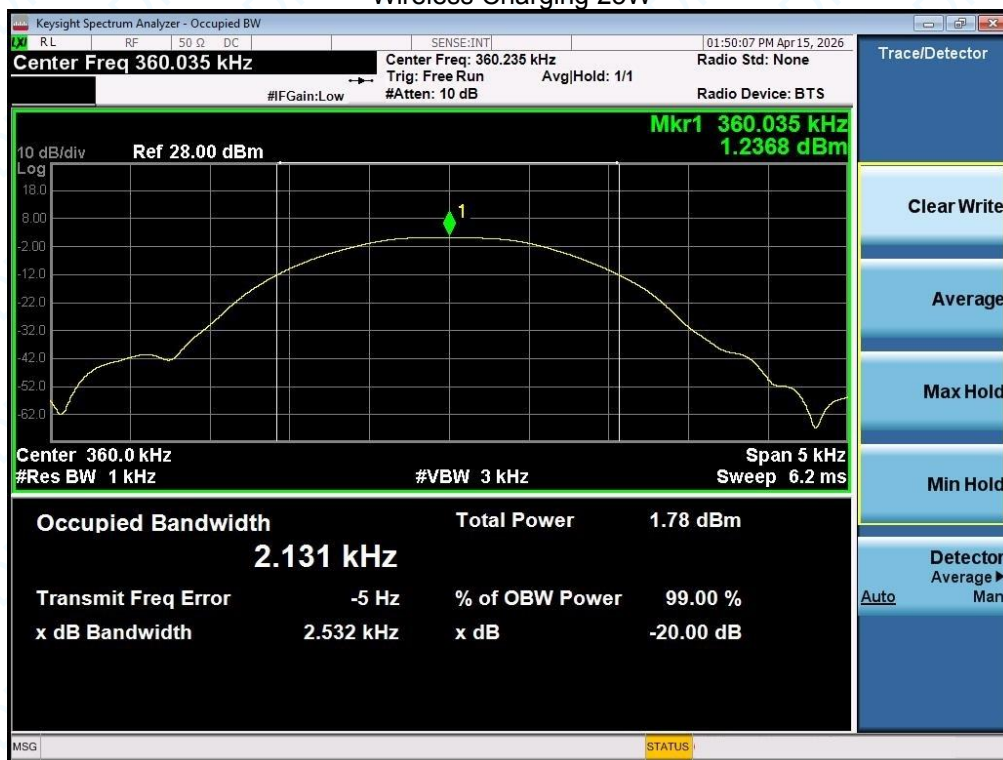


Wireless Charging 15W





Wireless Charging 25W





3.3 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2020 Section 7.8.8 / 6.3 / 6.6				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.090MHz-0.150MHz	Quasi-peak	300Hz	300Hz	Quasi-peak
	0.150MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz (DC $\geq$ 0.98) $\geq$ 1/T (DC<0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/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
	Remark: 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.				

Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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 - 156.52525	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)

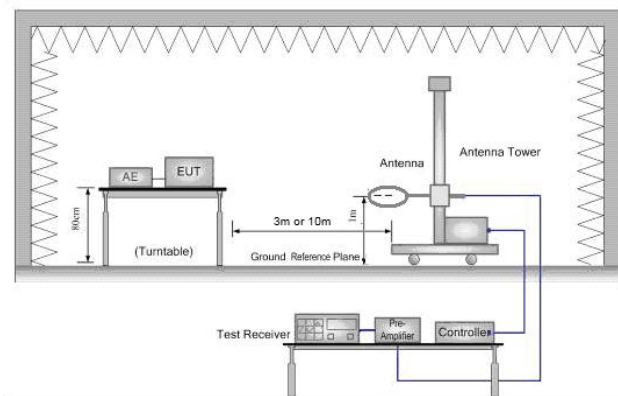
**Test Setup:**

Figure 1. Below 30MHz

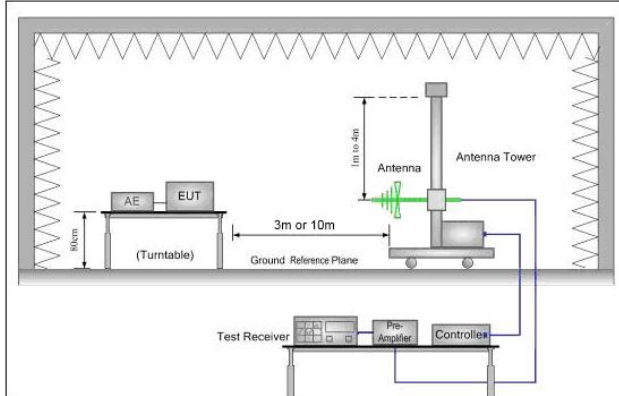


Figure 2. 30MHz to 1GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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 or 10 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 rotatable 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Test Configuration:

Measurements 9K-150KHz

- RBW = 300Hz
- VBW = 300Hz
- Detector = Peak
- Trace mode = max hold

Measurements 150K-30MHz

- RBW = 10KHz
- VBW = 30KHz
- Detector = Peak

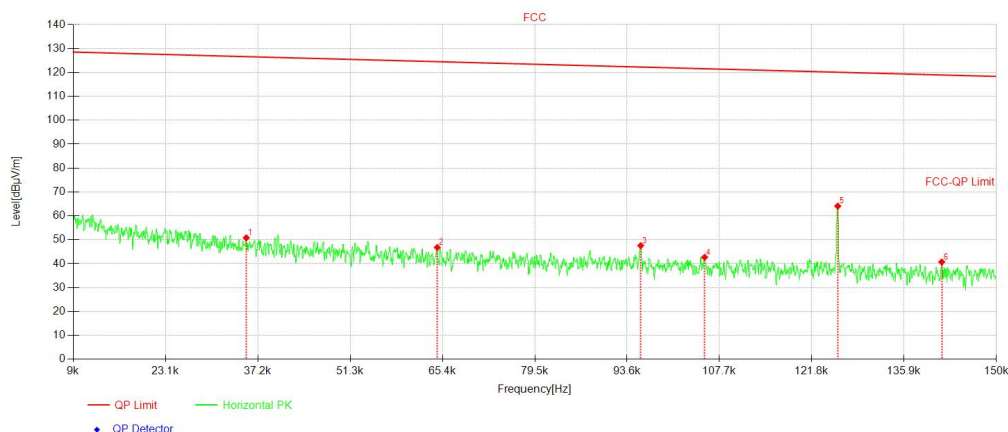


	• Trace mode = max hold Measurements 30 - 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge+Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode. Through Pre-scan, find the worst case of All modulation type.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass



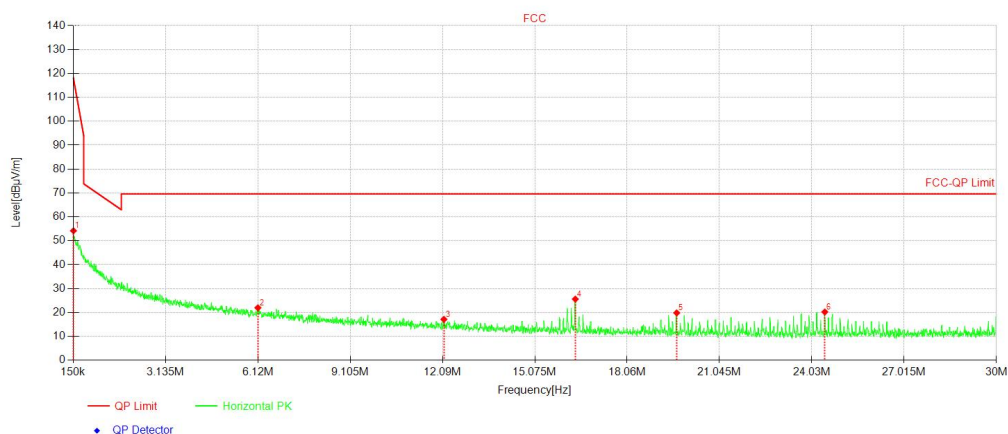
Test data

For 9K-150KHz 10W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.0354	38.56	12.27	50.83	126.61	75.78	100	346	QP	Coaxial
2	0.0646	35.56	11.24	46.80	124.51	77.71	100	346	QP	Coaxial
3	0.0957	36.57	10.98	47.55	122.26	74.71	100	357	QP	Coaxial
4	0.1054	31.77	10.93	42.70	121.56	78.86	100	357	QP	Coaxial
5	0.1251	53.24	10.85	64.09	120.09	56.00	100	331	QP	Coaxial
6	0.1417	29.87	10.83	40.70	118.94	78.24	100	341	QP	Coaxial

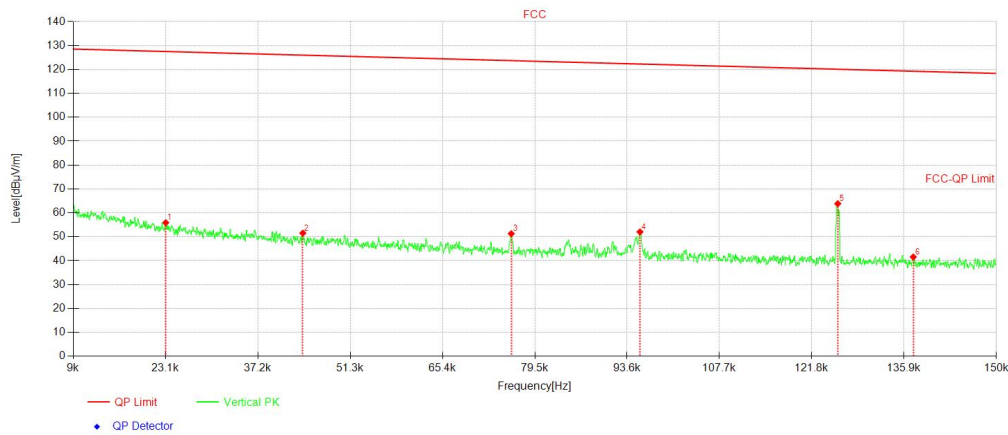
For 150KHz-30MHz 10W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.1560	43.38	10.80	54.18	117.91	63.73	100	303	QP	Coaxial
2	6.1212	11.36	10.59	21.95	69.54	47.59	100	340	QP	Coaxial
3	12.1342	6.81	10.31	17.12	69.54	52.42	100	356	QP	Coaxial
4	16.3857	15.66	9.92	25.58	69.54	43.96	100	351	QP	Coaxial
5	19.6639	10.36	9.47	19.83	69.54	49.71	100	356	QP	Coaxial
6	24.4528	11.58	8.64	20.22	69.54	49.32	100	356	QP	Coaxial

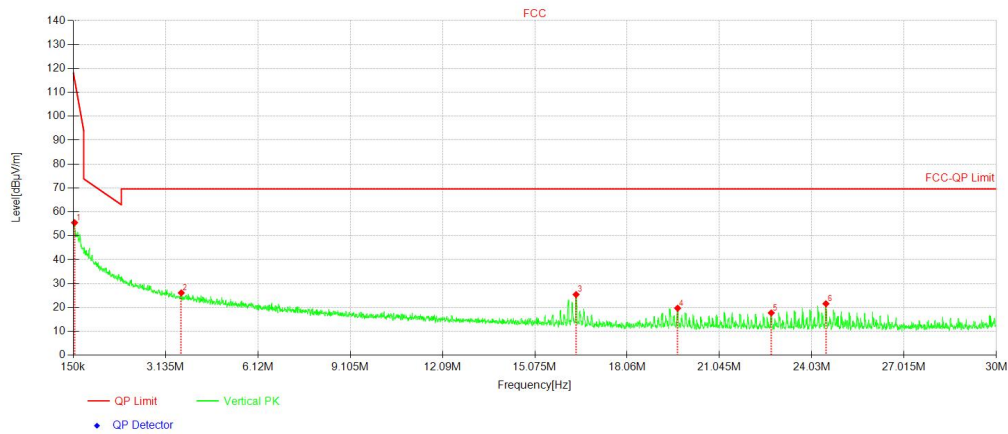


For 9K-150KHz 10W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.0231	42.05	13.84	55.89	127.50	71.61	100	19	QP	Coplanar
2	0.0441	39.72	11.79	51.51	125.99	74.48	100	172	QP	Coplanar
3	0.0759	40.19	11.10	51.29	123.69	72.40	100	230	QP	Coplanar
4	0.0956	41.05	10.98	52.03	122.27	70.24	100	261	QP	Coplanar
5	0.1251	53.00	10.85	63.85	120.09	56.24	100	348	QP	Coplanar
6	0.1373	30.69	10.84	41.53	119.26	77.73	100	162	QP	Coplanar

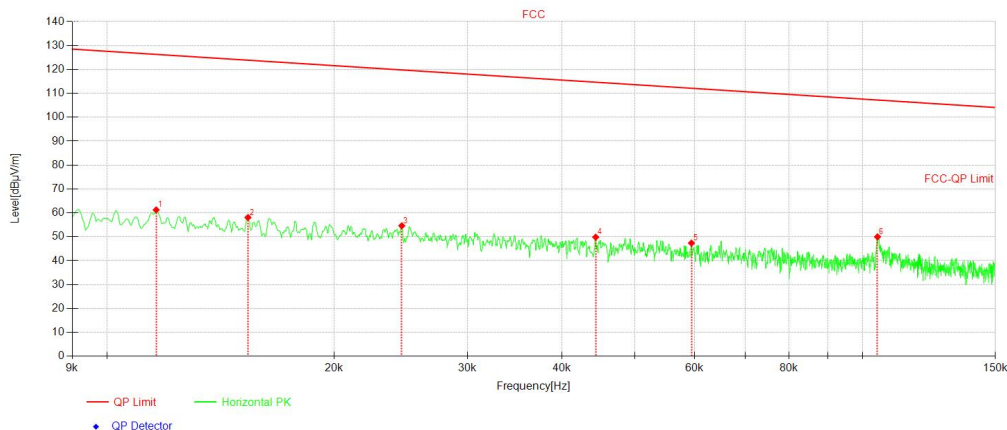
For 150KHz-30MHz 10W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.1918	44.70	10.77	55.47	115.33	59.86	100	248	QP	Coplanar
2	3.6431	15.51	10.60	26.11	69.54	43.43	100	273	QP	Coplanar
3	16.4096	15.50	9.91	25.41	69.54	44.13	100	145	QP	Coplanar
4	19.6937	10.23	9.47	19.70	69.54	49.84	100	101	QP	Coplanar
5	22.7211	8.75	8.97	17.72	69.54	51.82	100	229	QP	Coplanar
6	24.4886	12.93	8.64	21.57	69.54	47.97	100	198	QP	Coplanar

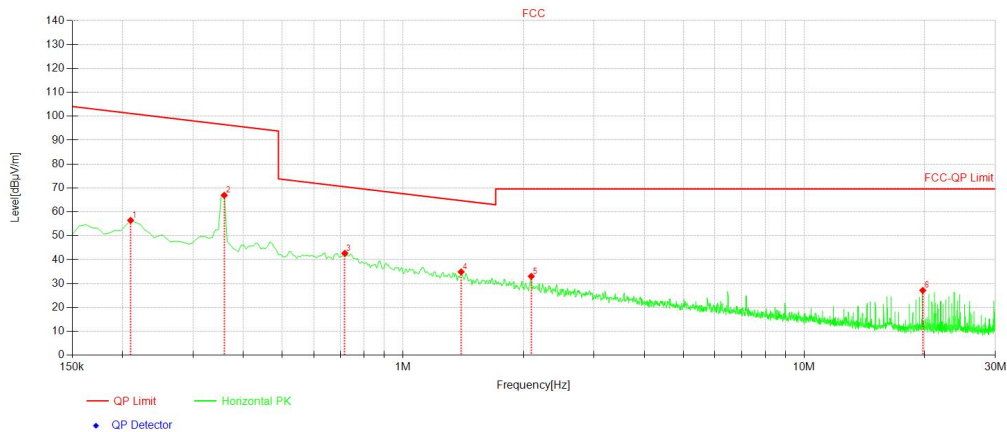


For 9K-150KHz 25W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.0116	43.19	18.05	61.24	126.30	65.06	100	27	QP	Coaxial
2	0.0154	41.65	16.41	58.06	123.87	65.81	100	15	QP	Coaxial
3	0.0246	41.01	13.60	54.61	119.80	65.19	100	4	QP	Coaxial
4	0.0444	38.07	11.78	49.85	114.66	64.81	100	4	QP	Coaxial
5	0.0594	36.05	11.32	47.37	112.13	64.76	100	21	QP	Coaxial
6	0.1047	39.05	10.93	49.98	107.20	57.22	100	15	QP	Coaxial

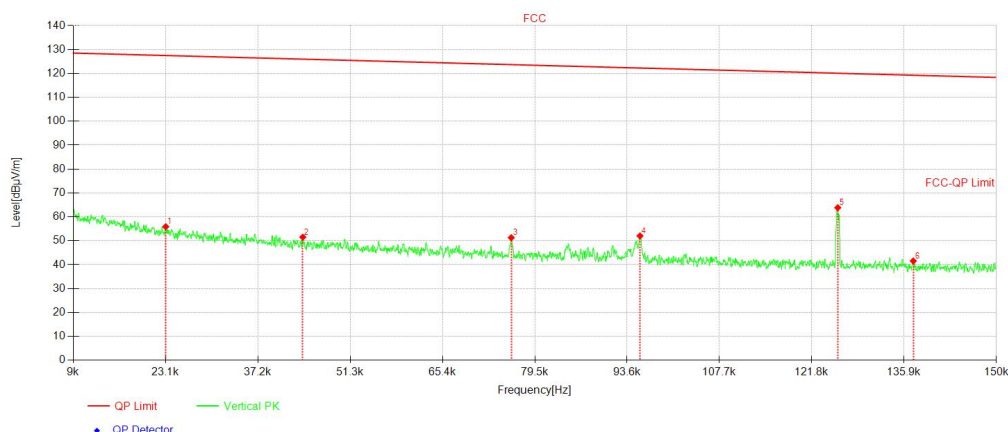
For 150KHz-30MHz 25W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.2097	45.68	10.75	56.43	101.17	44.74	100	22	QP	Coaxial
2	0.3601	56.25	10.69	66.94	96.50	29.56	100	10	QP	Coaxial
3	0.7173	32.02	10.64	42.66	70.49	27.83	100	27	QP	Coaxial
4	1.3980	24.27	10.61	34.88	64.69	29.81	100	27	QP	Coaxial
5	2.0906	22.41	10.62	33.03	69.54	36.51	100	4	QP	Coaxial
6	19.7773	17.68	9.46	27.14	69.54	42.40	100	16	QP	Coaxial

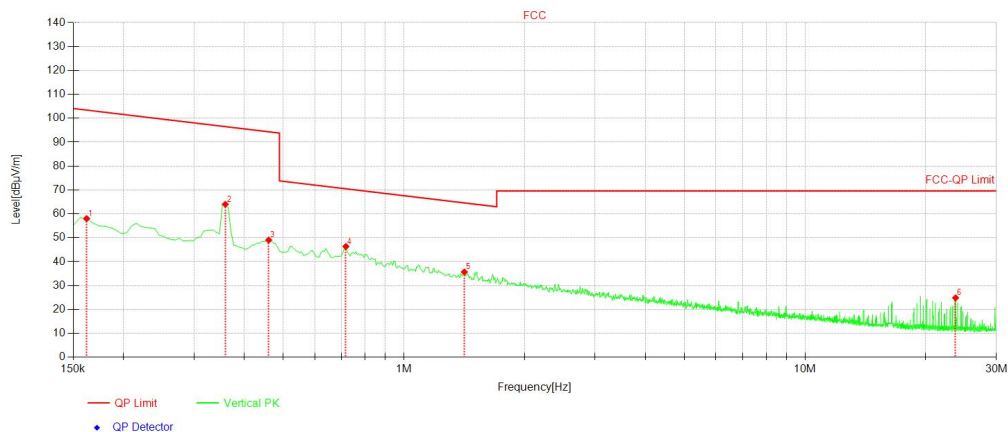


For 9K-150KHz 25W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.0150	42.25	16.57	58.82	124.08	65.26	100	36	QP	Coplaner
2	0.0215	41.35	14.12	55.47	120.97	65.50	100	30	QP	Coplaner
3	0.0345	40.32	12.34	52.66	116.84	64.18	100	36	QP	Coplaner
4	0.0603	35.32	11.31	46.63	112.00	65.37	100	22	QP	Coplaner
5	0.1051	40.67	10.93	51.60	107.17	55.57	100	9	QP	Coplaner
6	0.1309	29.37	10.85	40.22	105.27	65.05	100	22	QP	Coplaner

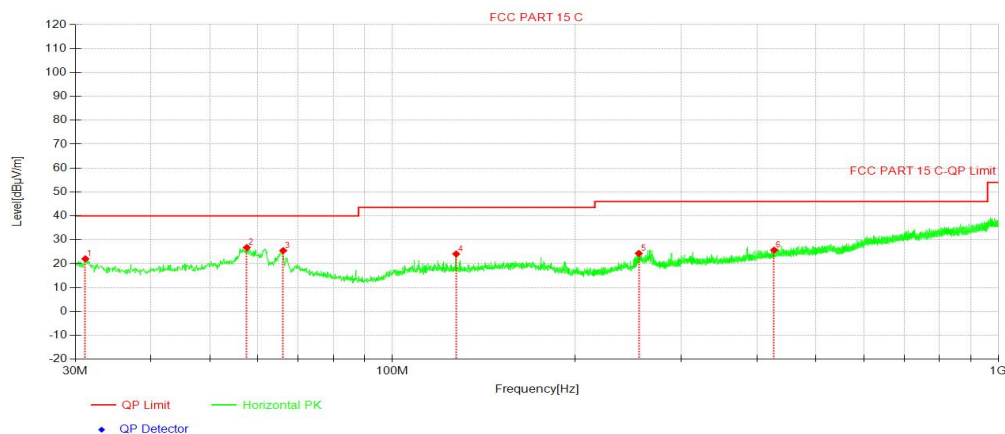
For 150KHz-30MHz 25W



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	0.1619	47.20	10.80	58.00	103.42	45.42	100	270	QP	Coplaner
2	0.3600	53.32	10.69	64.01	96.50	32.49	100	255	QP	Coplaner
3	0.4605	38.36	10.67	49.03	94.34	45.31	100	255	QP	Coplaner
4	0.7173	35.72	10.64	46.36	70.49	24.13	100	255	QP	Coplaner
5	1.4159	25.07	10.61	35.68	64.58	28.90	100	255	QP	Coplaner
6	23.7362	16.09	8.78	24.87	69.54	44.67	100	44	QP	Coplaner

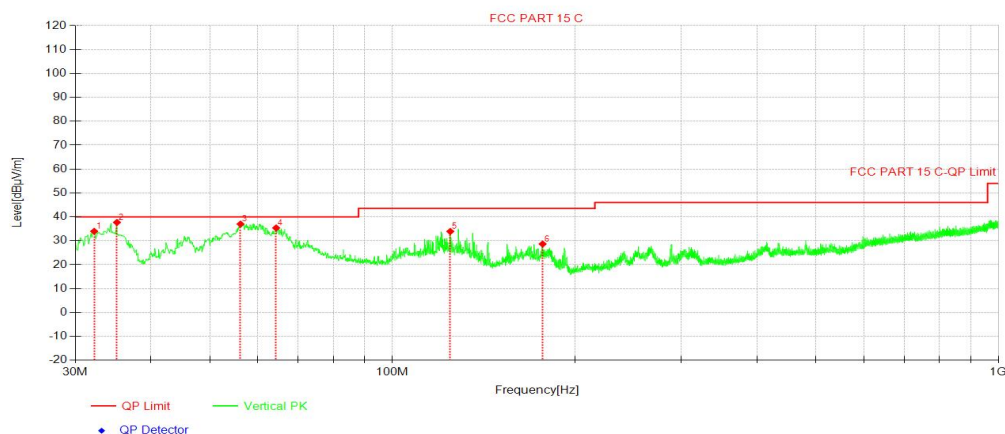
**For 30-1000MHz 10W**

Horizontal :



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	31.16	31.90	-9.86	22.04	40.00	17.96	100	14	QP
2	57.55	35.26	-8.51	26.75	40.00	13.25	100	1	QP
3	66.09	34.93	-9.46	25.47	40.00	14.53	100	236	QP
4	127.49	33.73	-9.66	24.07	43.50	19.43	100	358	QP
5	255.16	33.10	-8.80	24.30	46.00	21.70	100	257	QP
6	426.67	29.17	-3.49	25.68	46.00	20.32	100	209	QP

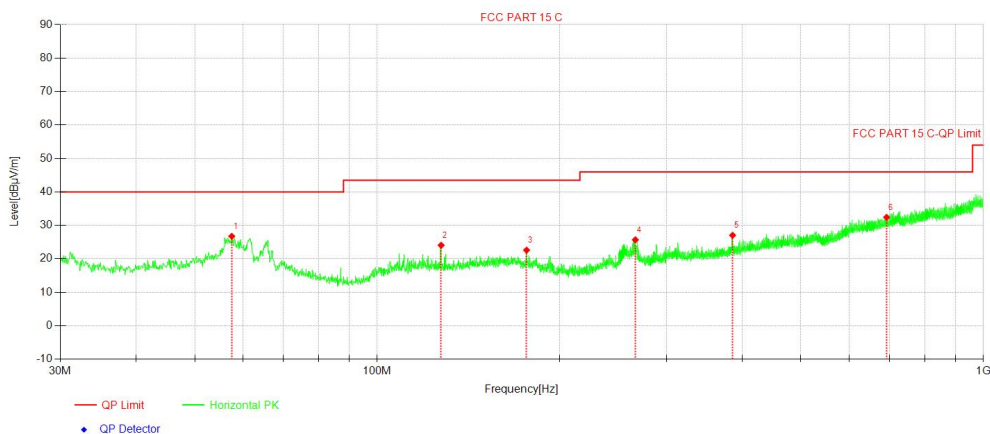
Vertical:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	32.23	43.65	-9.70	33.95	40.00	6.05	100	204	QP
2	35.14	47.01	-9.33	37.68	40.00	2.32	100	358	QP
3	56.19	45.37	-8.37	37.00	40.00	3.00	100	123	QP
4	64.34	44.62	-9.25	35.37	40.00	4.63	100	79	QP
5	124.68	43.79	-9.89	33.90	43.50	9.60	100	291	QP
6	177.07	37.63	-8.98	28.65	43.50	14.85	100	170	QP

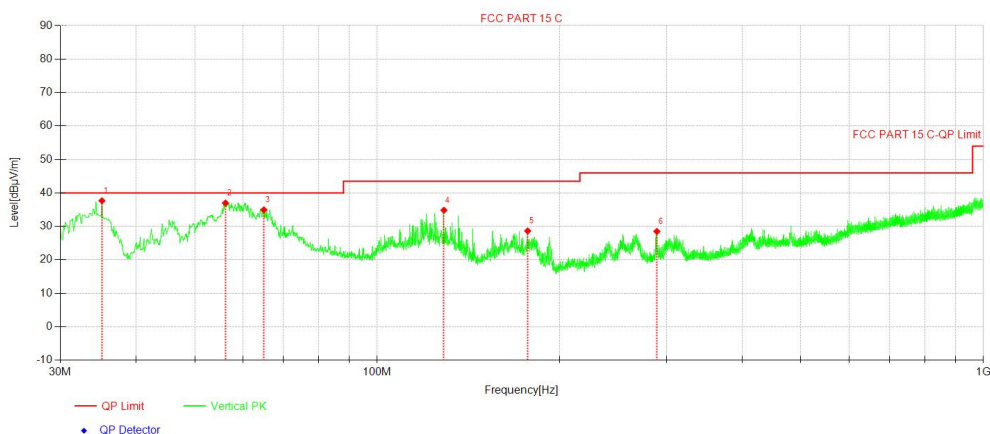
**For 30-1000MHz 25W**

Horizontal :



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	57.55	35.26	-8.51	26.75	40.00	13.25	100	1	QP
2	127.49	33.73	-9.66	24.07	43.50	19.43	100	358	QP
3	176.39	31.51	-8.90	22.61	43.50	20.89	100	230	QP
4	266.61	33.96	-8.25	25.71	46.00	20.29	100	84	QP
5	385.73	31.69	-4.64	27.05	46.00	18.95	100	46	QP
6	692.48	30.16	2.26	32.42	46.00	13.58	100	215	QP

Vertical:



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark
1	35.14	47.01	-9.33	37.68	40.00	2.32	100	358	QP
2	56.19	45.37	-8.37	37.00	40.00	3.00	100	123	QP
3	65.02	44.26	-9.31	34.95	40.00	5.05	100	68	QP
4	128.85	44.36	-9.51	34.85	43.50	8.65	100	281	QP
5	177.07	37.63	-8.98	28.65	43.50	14.85	100	170	QP
6	289.31	35.76	-7.26	28.50	46.00	17.50	100	95	QP

**Note:**

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

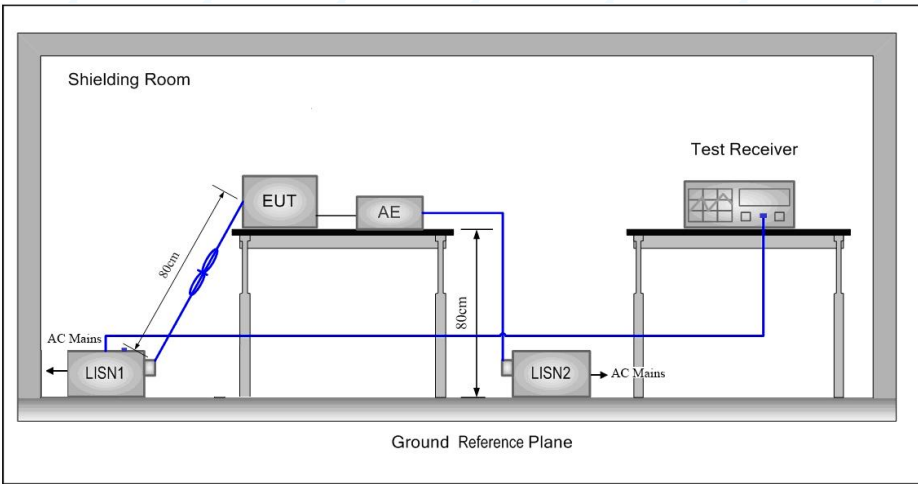
Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)

2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.



3.4 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		
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 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. 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 Setup:			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.		

Dongguan DN Testing Co., Ltd.

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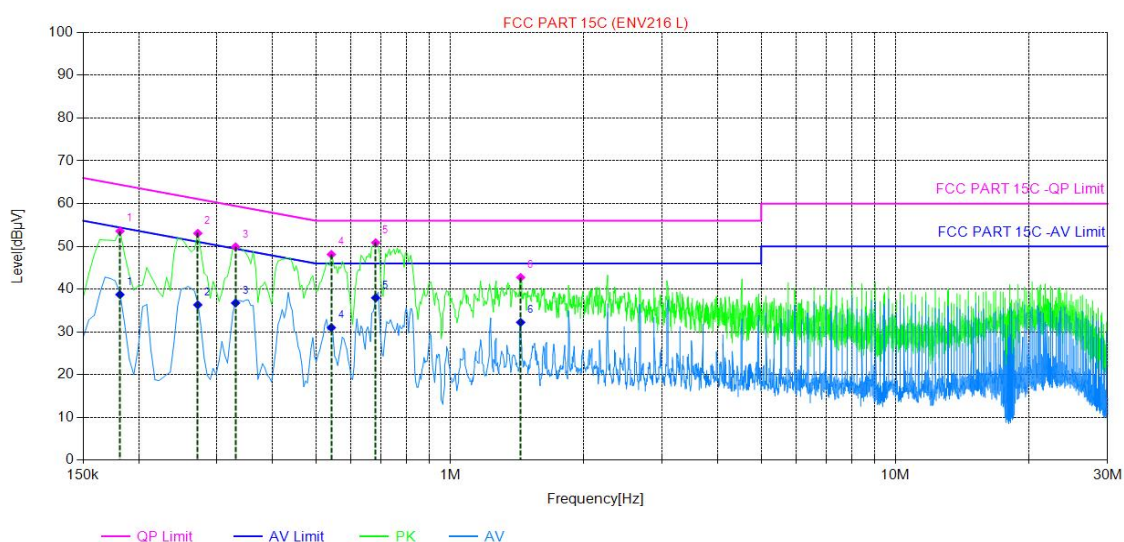
Final Test Mode:	Through Pre-scan, find the the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

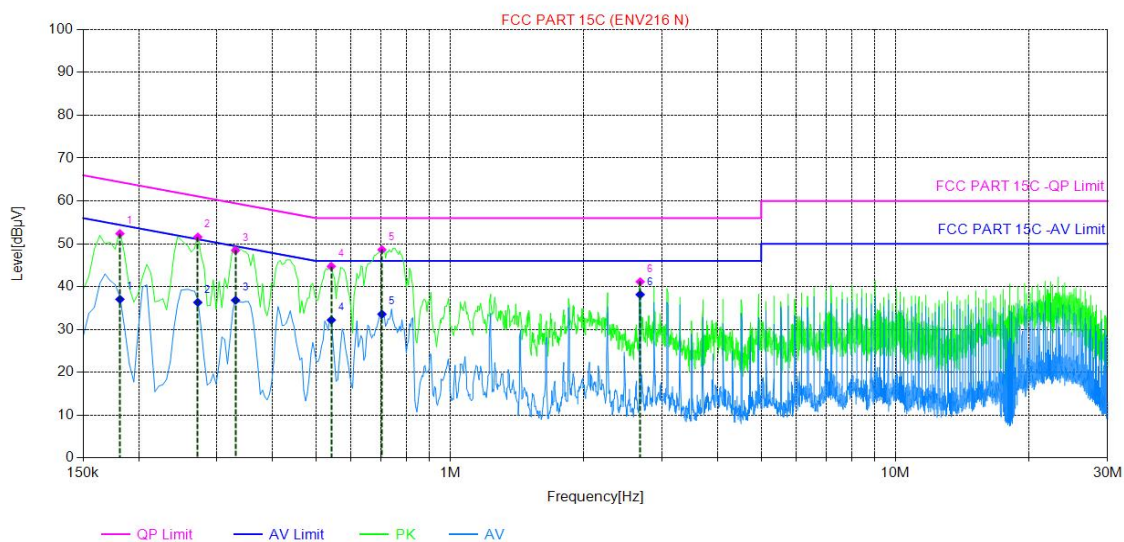
Live Line:



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1815	9.92	53.57	64.42	10.85	38.73	54.42	15.69	PASS
2	0.2715	9.90	53.05	61.07	8.02	36.34	51.07	14.73	PASS
3	0.33	9.86	49.90	59.45	9.55	36.77	49.45	12.68	PASS
4	0.5415	9.85	48.12	56.00	7.88	31.02	46.00	14.98	PASS
5	0.681	9.77	50.86	56.00	5.14	37.97	46.00	8.03	PASS
6	1.4415	9.73	42.75	56.00	13.25	32.25	46.00	13.75	PASS



Neutral Line:



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1815	9.84	52.38	64.42	12.04	37.06	54.42	17.36	PASS
2	0.2715	9.88	51.59	61.07	9.48	36.32	51.07	14.75	PASS
3	0.33	9.88	48.48	59.45	10.97	36.83	49.45	12.62	PASS
4	0.5415	9.74	44.73	56.00	11.27	32.21	46.00	13.79	PASS
5	0.7035	9.86	48.62	56.00	7.38	33.58	46.00	12.42	PASS
6	2.6745	9.84	41.15	56.00	14.85	38.16	46.00	7.84	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:
Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor

---END REPORT---