

TEST REPORT

Applicant:	Guangzhou Petovate Ventures Technology Co.,Ltd.
Address of Applicant:	Room 219, 2nd Floor, No. 2429 Xingang East Road, Haizhu District, Guangzhou (office use only)
Manufacturer:	Shenguoyan (Shenzhen) Technology Co., Ltd.
Address of Manufacturer:	2nd Floor, Factory Building No. 3, Hezhou Fishery Village Industrial Zone, Hezhou Community, Hangcheng Subdistrict, Bao'an District, Shenzhen City
Product name:	Wireless Charger (15W)
Model:	WY-TX15W-V2
Rating(s):	Input: DC 5V/9V/12V, 0.5A-2A; Output: 5V/9V/12V, Max. 1.66A
Trademark:	/
Standards:	47 CFR PART 15 Subpart C
FCC ID:	2BVNB-LITO-A1
Data of Receipt:	2026-01-26
Date of Test:	2026-01-26~2026-04-23
Date of Issue:	2026-04-23
Test Result	Pass*

* In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:

Apr.23, 2026

Chivas Tsang

Project Engineer

Date

Name/Position

Signature

Reviewed by:

Apr.23, 2026

Victor Meng

Project Manager

Date

Name/Position

Signature

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Testing Laboratory information:

Testing Laboratory Name : ITL Co., Ltd.
Address : No.8, JinQianLing street 5, DongHuan Road, Huangjiang Town,
Dongguan, China.
Testing location : Same as above
Tel: 0086-769-39001678
Fax: 0086-20-62824387
E-mail: itl@i-testlab.com

Possible test case verdicts:

test case does not apply to the test object: N/A
test object does meet the requirement: P (Pass)
test object does not meet the requirement: F (Fail)

General remarks:

The Test Result presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number.
It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

General product information:

/

1 Test Summary

Test	Test Requirement	Test method	Result
Antenna Requirement	FCC PART 15 section 15.203	FCC PART 15 section 15.203	PASS
Radiated Emission	FCC PART 15 section 15.209	ANSI C63.10-2020	PASS
Conducted Emission	FCC PART 15 section 15.207	ANSI C63.10-2020	PASS
Emission Bandwidth	FCC PART 15 section 15.215(c)	ANSI C63.10-2020	PASS
Remark:			
N/A: because the device is battery operated. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10-2020: the detail version is ANSI C63.10-2020 in the whole report.			

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3 General Information

3.1 Client Information

Applicant: Guangzhou Petovate Ventures Technology Co.,Ltd.
Address of Applicant: Room 219, 2nd Floor, No. 2429 Xingang East Road, Haizhu District, Guangzhou (office use only)

3.2 General Description of E.U.T.

Name: Wireless Charger (15W)
Model No.: WY-TX15W-V2
Trade Mark: /
Operating Frequency: EPP: 113-207 KHz
MPP: 360 KHz
Type of Modulation ASK
Antenna Type: Coil Antenna

3.3 Details of E.U.T.

EUT Power Supply: AC 120V, 60Hz
Test mode: Mode 1: base station in stand-by, idle mode
Mode 2: Communication and charging
All test modes were pre-tested, but we only recorded the worst case in this report.

3.4 Details of Support Equipment(s)

Description	Manufacturer	Model No.	Connection	Working state
/				

3.5 Test Location

All tests were performed at:

ITL Co., Ltd.

No.8, JinQianLing street 5, DongHuan Road, Huangjiang Town, Dongguan, China.

0086-769-39001678

itl@i-testlab.com

No tests were sub-contracted.

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 Test Facility

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

- CNAS Lab code:L9342
- FCC Designation No.:CN5035
- IC Registration No.: 12593A
- NVLAP LAB CODE: 600199-0

3.10 Measurement Uncertainty

The below measurement uncertainties given below are based on a 95% confidence level (base on a coverage factor (k=2).)

Parameter	Uncertainty
Radio frequency	$\pm 1.06 \times 10^{-7}$
total RF power, conducted	1.37 dB
RF power density , conducted	2.89 dB
All emissions, radiated	± 3.35 dB
Temperature	± 0.23 °C
Humidity	± 0.3 %
DC and low frequency voltages	± 0.3 %
All emissions, conducted	± 2.30 dB

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4 Instruments Used during Test

No.	Test Equipment	Manufacturer	Model	Serial No.	Cal Date	Due Date
DGITL-115	50Ω Coaxial Cable	Mini-circuits	CBL	C001	2025.03.10 2026.03.11	2026.03.09 2027.03.10
DGITL-182	Test software	2.0.0.0	MTS 8310	/	/	/
DGITL-190	Filter	COM-MW	K6-2400-2483.5-100S5010-007	12230496	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-191	Filter	COM-MW	K6-5150-5850-100S5010-003	12234382	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-301	Semi-Anechoic chamber	ETS•Lindgren	9*6*6	CT000874-1181	2023.08.02	2026.08.02
DGITL-307	EMI test receiver	SCHWARZBECK	ESVS10	833616/003	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-376	Wideband Radio Communication Tester	SCHWARZBECK	CMW500	LR114195	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-349a	Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	259268	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-194	Power Meter	MWRFTest	MW100-PSB	MW202006002	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-306	Spectrum Analyzer	Agilent Technologies	N9010A	MY54200334	2025.01.13 2026.01.14	2026.01.13 2027.01.13
DGITL-352	Pre Amplifier	Mini-circuits	ZFC-1000HX	SN292801110	2025.03.10 2026.03.11	2026.03.09 2027.03.10
DGITL-375	Spectrum Analyzer	SCHWARZBECK	FSV40-N	6625-01-588-5515	2025.03.10 2026.03.11	2026.03.09 2027.03.10
DGITL-309	Horn Antenna	ETS Lindgren	3117	SN00152265	2025.05.13	2026.05.12
DGITL-308	Bilog Antenna	ETS· Lindgren	3142E	156975	2025.05.13	2026.05.12
DGITL-350	Wideband Amplifier Super Ultra	Mini-circuits	ZVA-183X-S+	SN986401426	2025.03.10 2026.03.11	2026.03.09 2027.03.10
DGITL- 352	Pre Amplifier	Mini-circuits	ZFC-1000HX	SN292801110	2025.03.10 2026.03.11	2026.03.09 2027.03.10
DGITL-363	Active Loop Antenna	SCHWARZBECK	FMZB1519B	00062	2025.05.15	2026.05.14
DGITL-302	Shielded Room	ETS· Lindgren	8*4*3	CT09010	2023.08.02	2026.08.02

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DGITL-304	L.I.S.N.#1	R&S	ESH3-Z5	100272	2025.03.10 2026.03.11	2026.03.09 2027.03.10
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5 Test Result

5.1 Antenna Requirement

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

5.1.1 Test Result (Antenna Requirement)

This product uses permanently attached internal coil antenna that meets the requirement in 15.203.

5.2 Radiated Spurious Emissions

Test Requirement: FCC Part 15 C section 209(a)

Test Method: ANSI C63.10-2020

Operating Environment:

Temperature: 24.0 °C Humidity: 50 % RH Atmospheric Pressure: 101 kPa

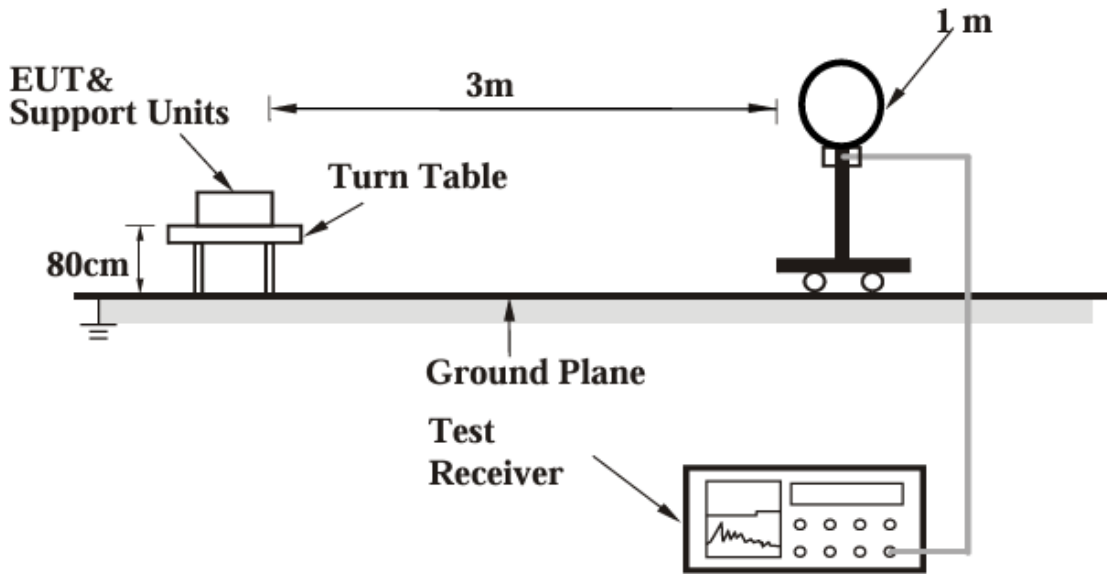
Test Status: Test the transmitter in continuous transmitting mode.

Limit: The field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

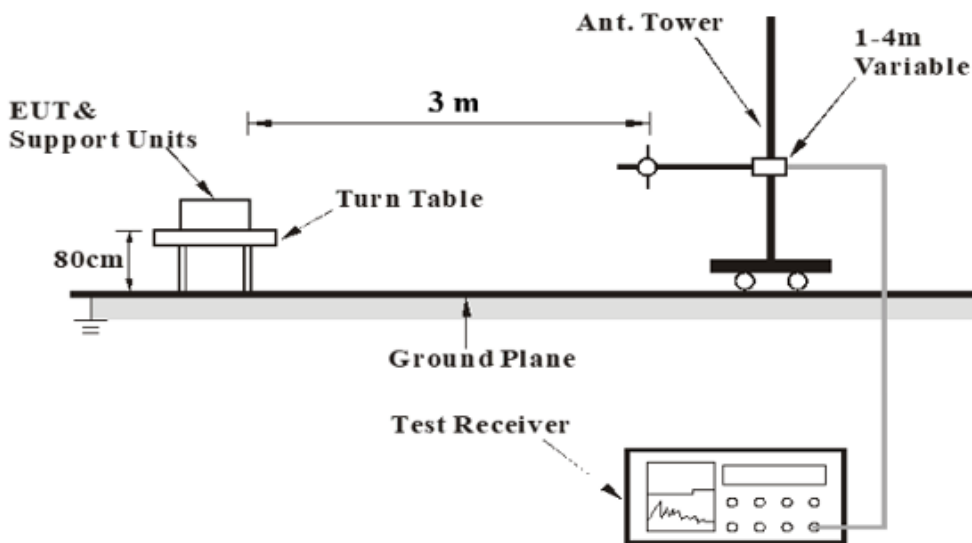
Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

5.2.1 Test Configuration

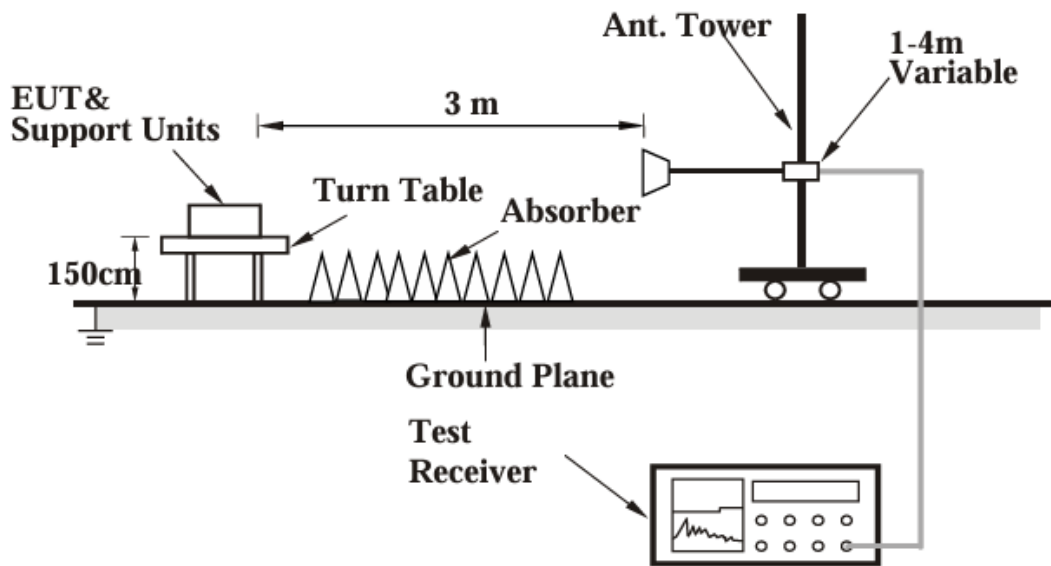
- 1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 40 GHz emissions:



Test Procedure:

- (1) The receiver was scanned from 0.009MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only. The worst case emissions were reported.
- (2) Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.
- (3) Pre-test under all modes below 1GHz; choose the worst case mode record on the report.
- (4) Detector: Resolution bandwidth for Peak and Quasi-Peak value:
 200 Hz for 9 kHz to 150 kHz
 9 kHz for 150 kHz to 30 MHz

120 kHz for 30 MHz to 1GHz

1 MHz for above 1 GHz,

$VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

For AV value:

Average = Peak value + $20\log$ (Duty cycle)

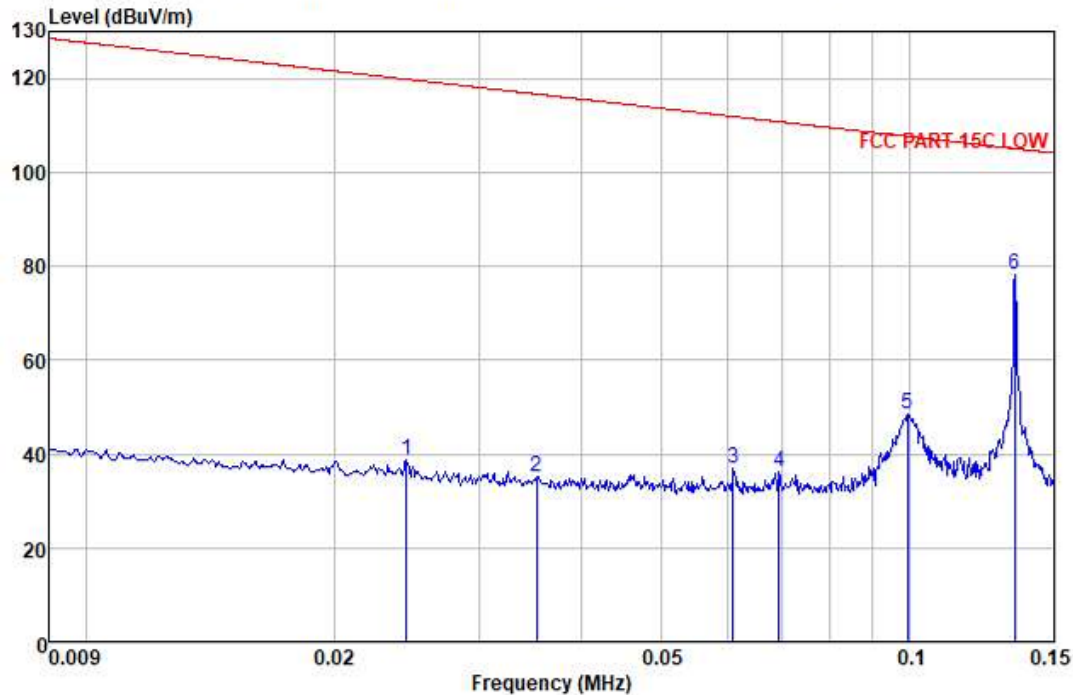
5.2.2 Test Result (Radiated Spurious Emissions 9 KHz ~0.15 MHz)

For EPP 134 KHz

Horizontal:

Peak scan

Level (dB μ V/m)



No.	Freq MHz	Read Level dB μ V	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dB μ V/m	Limit Line dB μ V/m	Over Limit dB	Pol/Phase	Remark
1	0.025	46.00	20.84	0.11	28.09	38.86	119.82	-80.96	HORIZONTAL	Peak
2	0.035	42.60	20.74	0.12	28.26	35.20	116.67	-81.47	HORIZONTAL	Peak
3	0.061	44.60	20.61	0.14	28.53	36.82	111.88	-75.06	HORIZONTAL	Peak
4	0.069	43.96	20.59	0.14	28.59	36.10	110.78	-74.68	HORIZONTAL	Peak
5	0.099	56.56	20.60	0.16	28.76	48.56	107.65	-59.09	HORIZONTAL	Peak
6	0.134	86.60	20.50	0.19	28.91	78.38	105.04	-26.66	HORIZONTAL	Peak

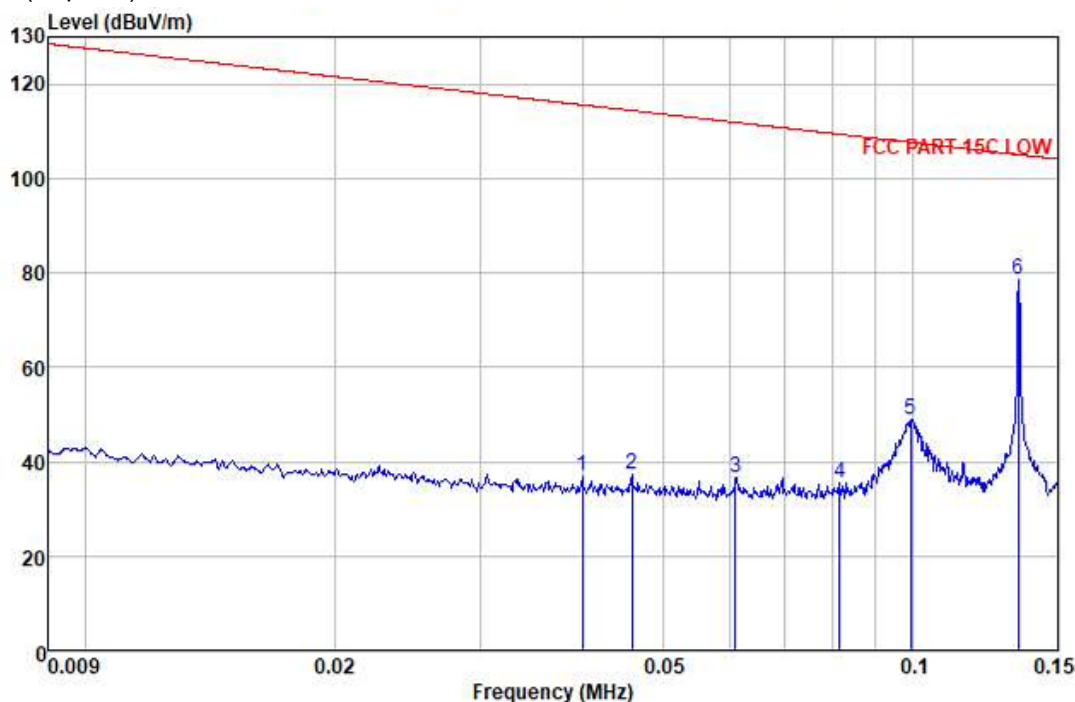
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/Phase	Remark
1	0.040	44.38	20.72	0.12	28.32	36.90	115.59	-78.69	VERTICAL	Peak
2	0.046	45.00	20.68	0.13	28.39	37.42	114.40	-76.98	VERTICAL	Peak
3	0.061	44.35	20.61	0.14	28.53	36.57	111.88	-75.31	VERTICAL	Peak
4	0.082	43.27	20.57	0.15	28.67	35.32	109.36	-74.04	VERTICAL	Peak
5	0.099	56.99	20.60	0.16	28.76	48.99	107.65	-58.66	VERTICAL	Peak
6	0.134	86.90	20.50	0.19	28.91	78.68	105.04	-26.36	VERTICAL	Peak

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

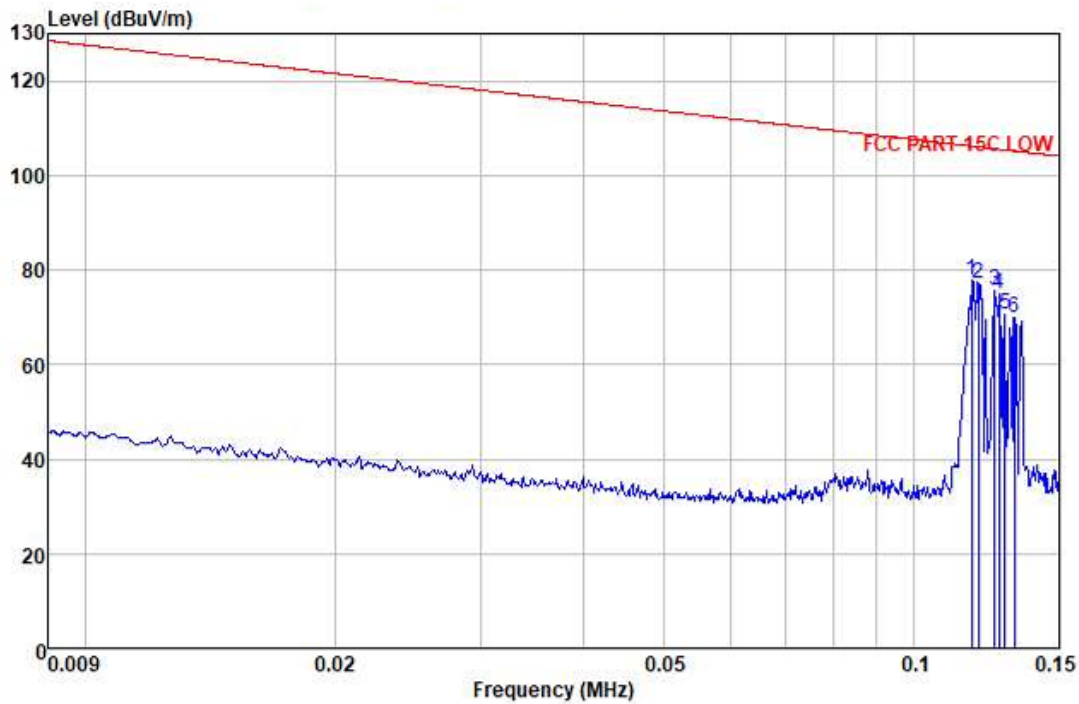
Peak Measurement

For MPP 360 KHz

Horizontal:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/Phase	Remark
1	0.117	85.99	20.54	0.18	28.85	77.86	106.21	-28.35	HORIZONTAL	Peak
2	0.120	85.39	20.52	0.18	28.85	77.24	106.04	-28.80	HORIZONTAL	Peak
3	0.125	83.71	20.51	0.18	28.88	75.52	105.65	-30.13	HORIZONTAL	Peak
4	0.127	83.18	20.51	0.18	28.88	74.99	105.55	-30.56	HORIZONTAL	Peak
5	0.129	78.72	20.50	0.19	28.89	70.52	105.40	-34.88	HORIZONTAL	Peak
6	0.133	78.14	20.50	0.19	28.90	69.93	105.16	-35.23	HORIZONTAL	Peak

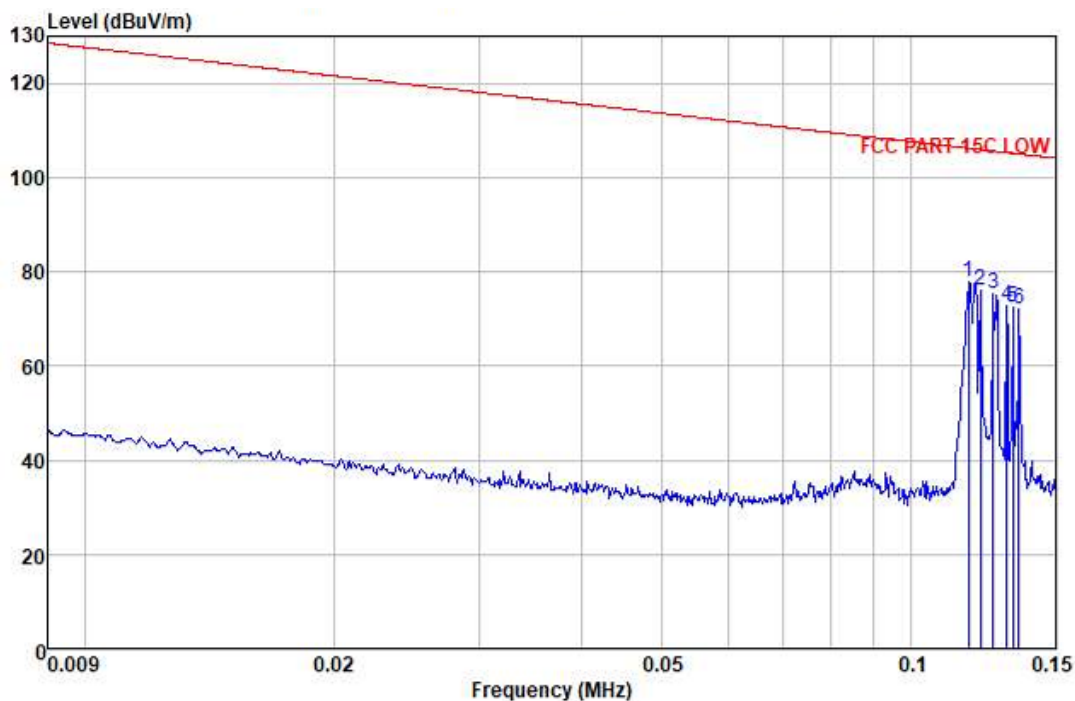
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamplifier Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/Phase	Remark
1	0.117	85.95	20.54	0.18	28.85	77.82	106.21	-28.39	VERTICAL	Peak
2	0.121	84.05	20.52	0.18	28.86	75.89	105.92	-30.03	VERTICAL	Peak
3	0.126	83.46	20.51	0.18	28.88	75.27	105.60	-30.33	VERTICAL	Peak
4	0.131	81.16	20.50	0.19	28.90	72.95	105.28	-32.33	VERTICAL	Peak
5	0.133	80.73	20.50	0.19	28.91	72.51	105.13	-32.62	VERTICAL	Peak
6	0.135	80.38	20.50	0.19	28.91	72.16	104.99	-32.83	VERTICAL	Peak

Level=Read Level + Antenna Factor + Cable Loss - Preamplifier Factor

Peak Measurement

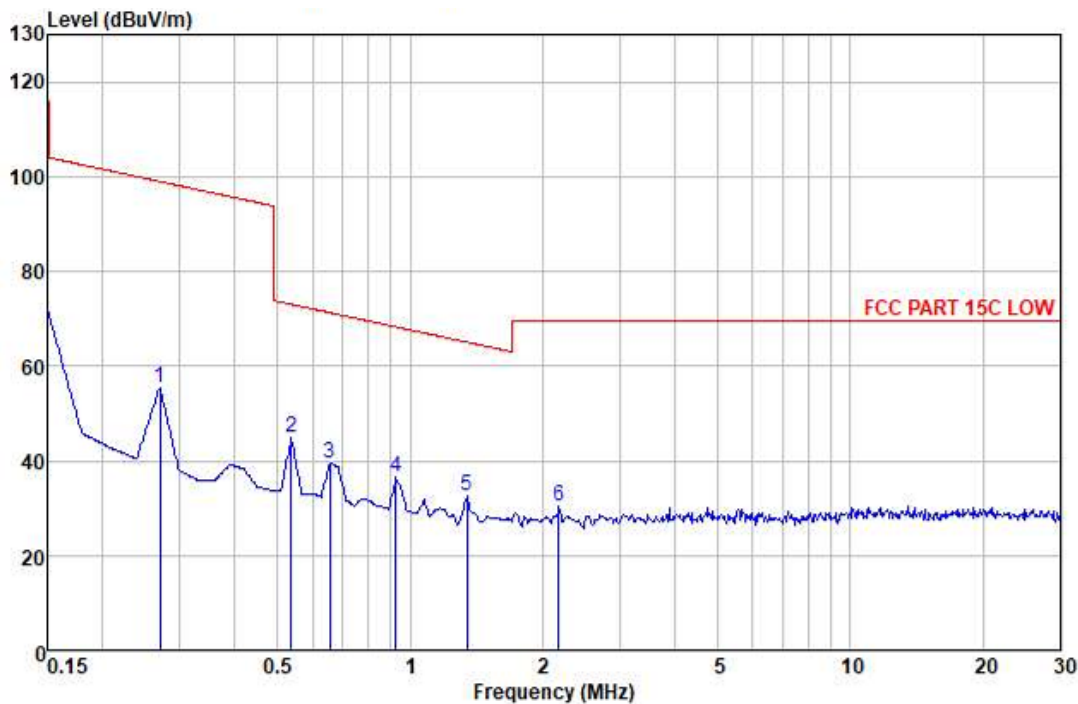
5.2.3 Test Result (Radiated Spurious Emissions 0.15 MHz ~30 MHz)

For EPP 134 KHz

Horizontal:

Peak scan

Level (dB μ V/m)



No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1	0.270	64.17	20.42	0.20	29.25	55.54	98.97	-43.43	HORIZONTAL	Peak
2	0.538	53.46	20.37	0.20	29.25	44.78	72.99	-28.21	HORIZONTAL	Peak
3	0.658	48.16	20.36	0.21	29.23	39.50	71.24	-31.74	HORIZONTAL	Peak
4	0.928	45.07	20.34	0.21	29.21	36.41	68.25	-31.84	HORIZONTAL	Peak
5	1.345	41.23	20.33	0.21	29.19	32.58	65.03	-32.45	HORIZONTAL	Peak
6	2.178	38.94	20.32	0.22	29.17	30.31	69.54	-39.23	HORIZONTAL	Peak

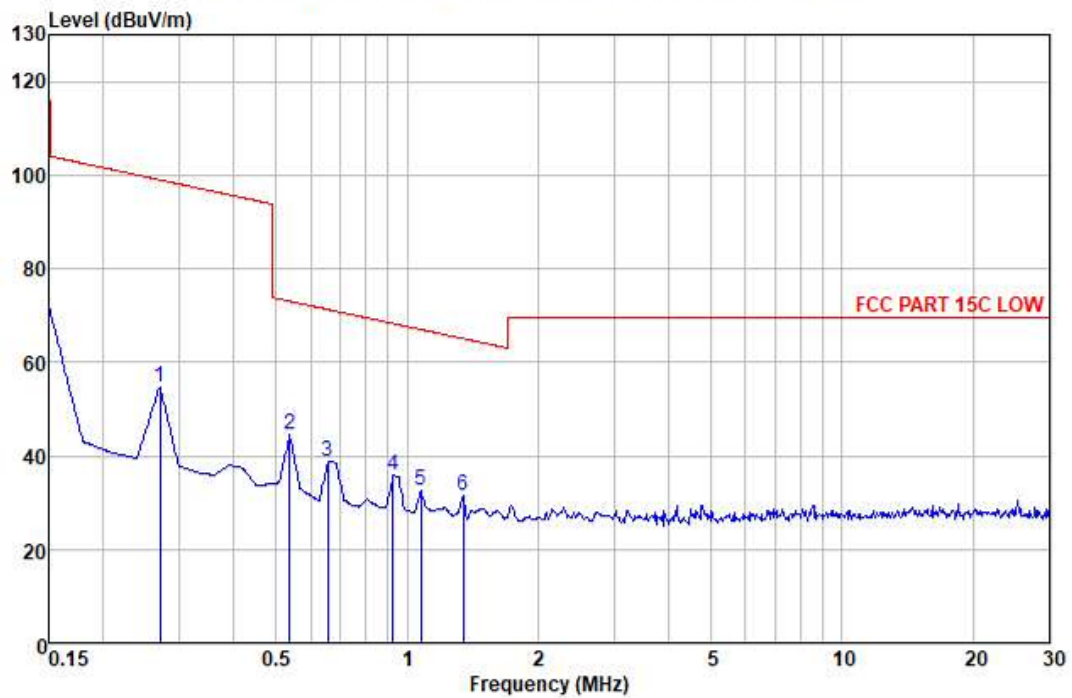
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBμV	Antenna Factor dB	Cable Loss dB	Preamplifier Factor dB	Level dBμV/m	Limit Line dBμV/m	Over Limit dB	Pol/Phase	Remark
1	0.270	63.48	20.42	0.20	29.25	54.85	98.97	-44.12	VERTICAL	Peak
2	0.538	53.07	20.37	0.20	29.25	44.39	72.99	-28.60	VERTICAL	Peak
3	0.658	47.42	20.36	0.21	29.23	38.76	71.24	-32.48	VERTICAL	Peak
4	0.928	44.43	20.34	0.21	29.21	35.77	68.25	-32.48	VERTICAL	Peak
5	1.077	41.30	20.34	0.21	29.20	32.65	66.96	-34.31	VERTICAL	Peak
6	1.345	40.12	20.33	0.21	29.19	31.47	65.03	-33.56	VERTICAL	Peak

Level=Read Level + Antenna Factor + Cable Loss - Preamplifier Factor

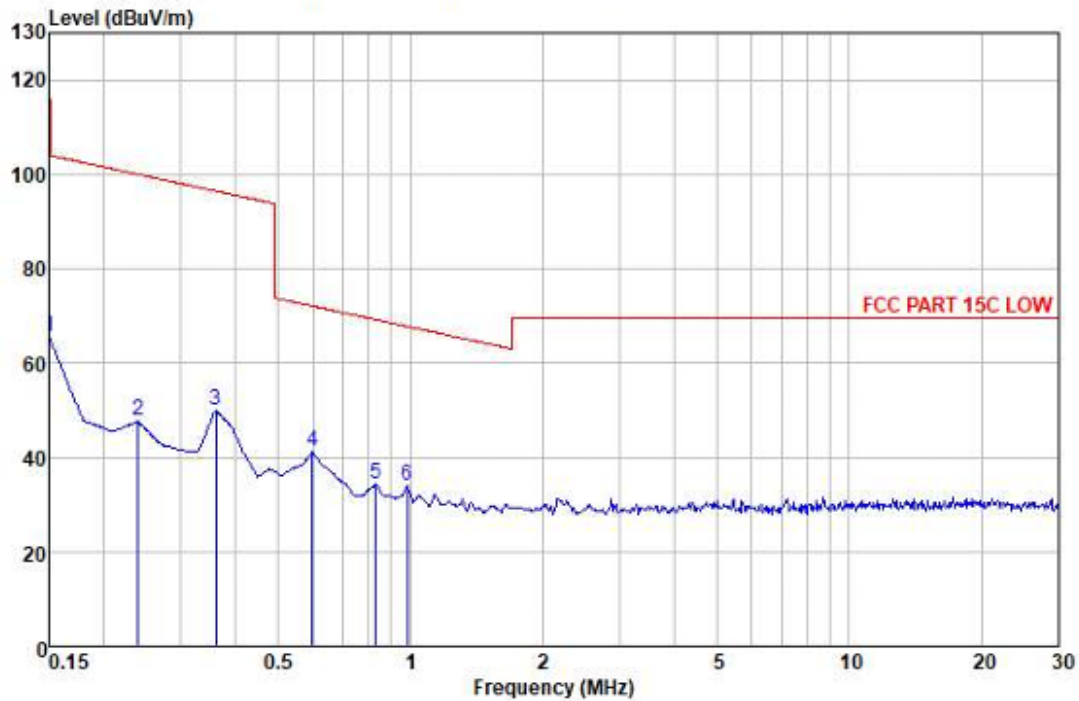
Peak Measurement

For MPP 360 KHz

Horizontal:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1	0.150	73.90	20.49	0.20	28.96	65.63	104.08	-38.45	HORIZONTAL	Peak
2	0.239	56.19	20.44	0.20	29.19	47.64	100.03	-52.39	HORIZONTAL	Peak
3	0.360	58.74	20.40	0.20	29.28	50.06	96.49	-46.43	HORIZONTAL	Peak
4	0.598	49.82	20.36	0.20	29.24	41.14	72.07	-30.93	HORIZONTAL	Peak
5	0.835	42.89	20.35	0.21	29.21	34.24	69.17	-34.93	HORIZONTAL	Peak
6	0.984	42.60	20.34	0.21	29.20	33.95	67.75	-33.80	HORIZONTAL	Peak

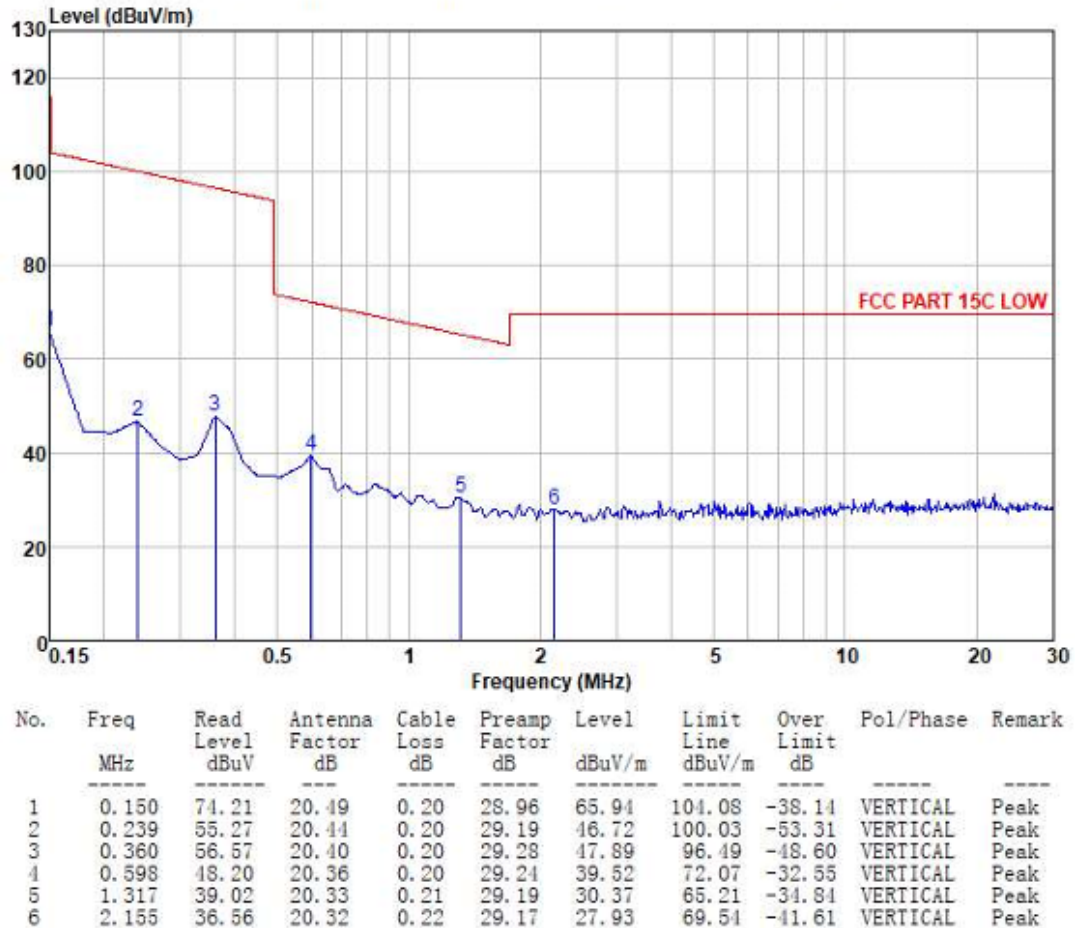
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Peak Measurement

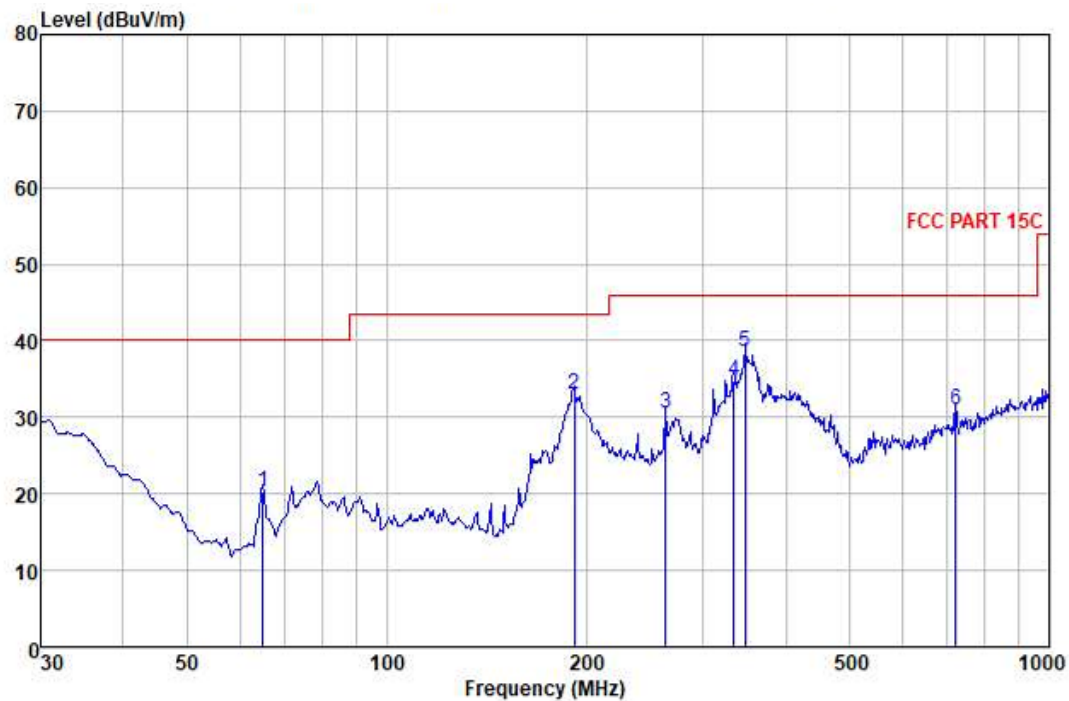
5.2.3 Test Result (Radiated Spurious Emissions 30 MHz ~1 GHz)

For EPP 134 KHz

Horizontal:

Peak scan

Level (dB μ V/m)



No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1	64.887	38.57	7.12	0.55	26.04	20.20	40.00	-19.80	HORIZONTAL	QP
2	191.745	47.39	10.20	1.09	25.66	33.02	43.50	-10.48	HORIZONTAL	QP
3	263.819	42.29	12.49	1.29	25.55	30.52	46.00	-15.48	HORIZONTAL	QP
4	333.687	45.27	14.02	1.43	25.85	34.87	46.00	-11.13	HORIZONTAL	QP
5	346.809	48.84	14.32	1.45	25.98	38.63	46.00	-7.37	HORIZONTAL	QP
6	721.726	35.90	20.14	2.05	27.12	30.97	46.00	-15.03	HORIZONTAL	QP

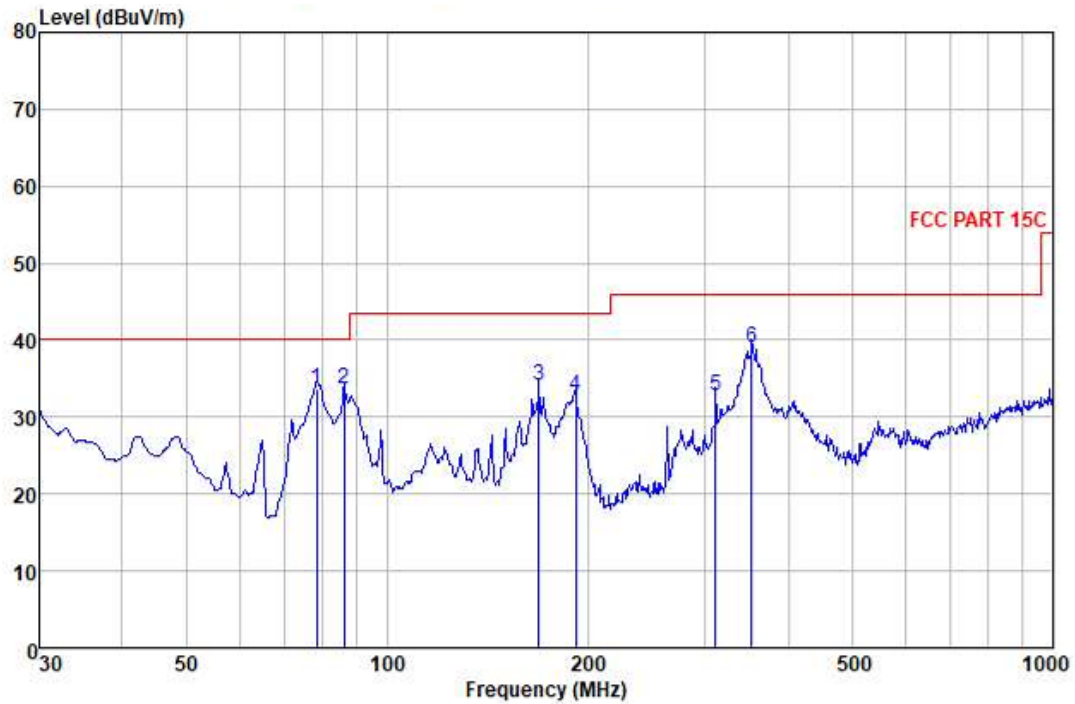
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Quasi-Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1	78.413	51.37	7.70	0.60	26.00	33.67	40.00	-6.33	VERTICAL	QP
2	86.200	50.56	8.40	0.64	25.97	33.63	40.00	-6.37	VERTICAL	QP
3	169.005	50.13	8.60	1.01	25.71	34.03	43.50	-9.47	VERTICAL	QP
4	191.745	47.17	10.20	1.09	25.66	32.80	43.50	-10.70	VERTICAL	QP
5	311.087	43.38	13.64	1.39	25.62	32.79	46.00	-13.21	VERTICAL	QP
6	352.943	49.59	14.06	1.47	26.04	39.08	46.00	-6.92	VERTICAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

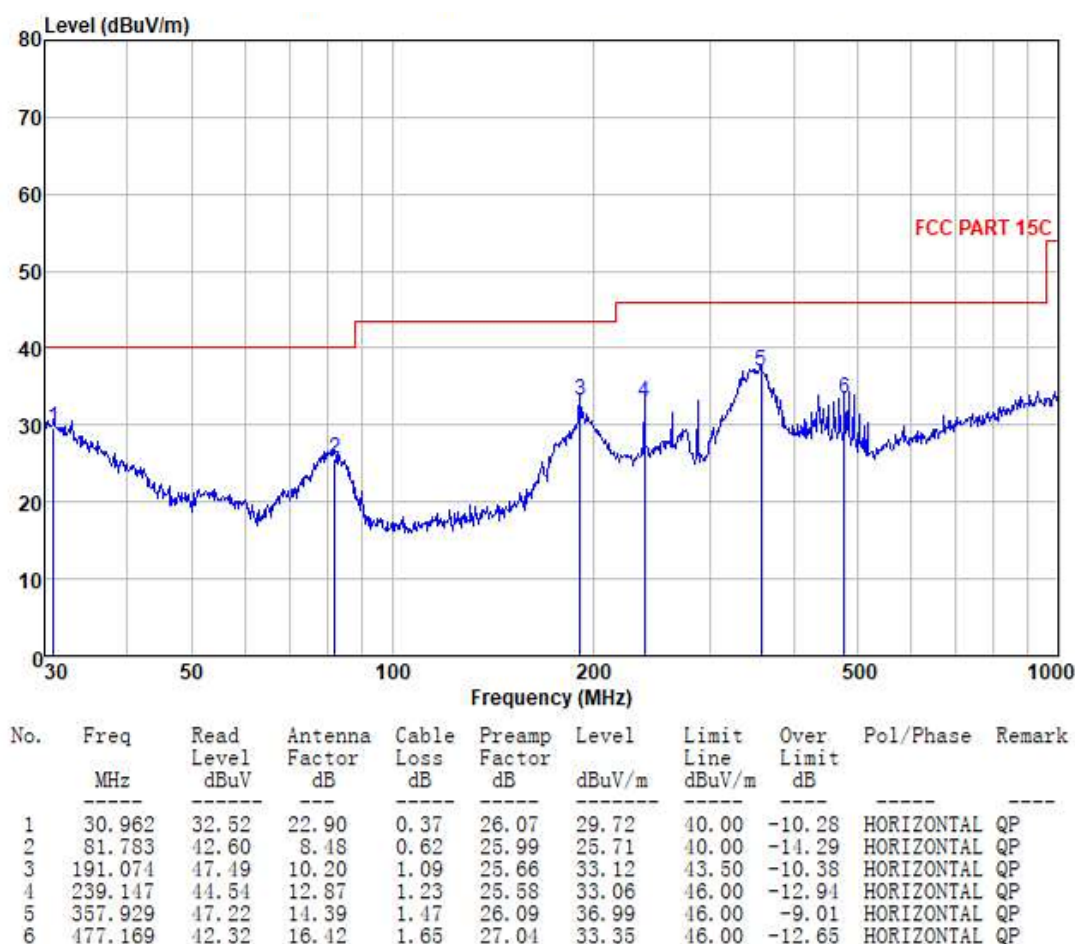
Quasi-Peak Measurement

For MPP 360 KHz

Horizontal:

Peak scan

Level (dBμV/m)



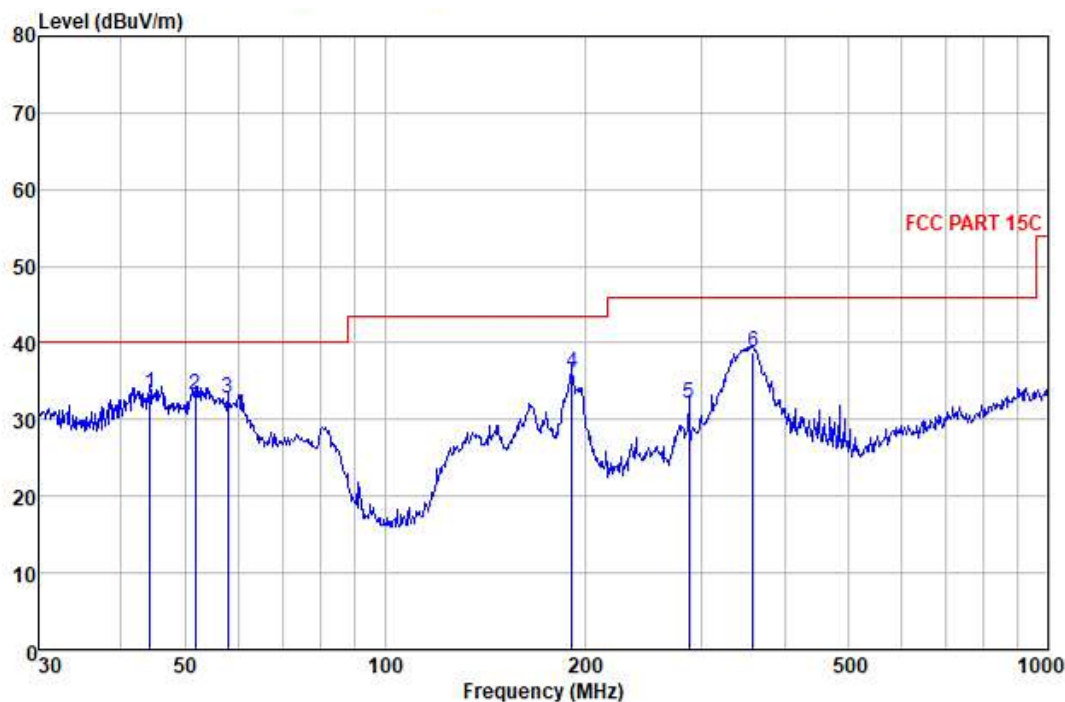
Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Quasi-Peak Measurement

Vertical:

Peak scan

Level (dBμV/m)



No.	Freq MHz	Read Level dBuV	Antenna Factor dB	Cable Loss dB	Preamp Factor dB	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Pol/Phase	Remark
1	44.120	47.02	12.13	0.44	26.09	33.50	40.00	-6.50	VERTICAL	QP
2	51.662	52.48	6.37	0.48	26.09	33.24	40.00	-6.76	VERTICAL	QP
3	57.796	53.99	4.32	0.51	26.07	32.75	40.00	-7.25	VERTICAL	QP
4	191.074	50.50	10.20	1.09	25.66	36.13	43.50	-7.37	VERTICAL	QP
5	286.982	43.07	13.24	1.34	25.52	32.13	46.00	-13.87	VERTICAL	QP
6	359.186	48.82	14.52	1.48	26.10	38.72	46.00	-7.28	VERTICAL	QP

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

Quasi-Peak Measurement

5.3 Emission Bandwidth

Test Requirement: FCC Part 15 C section 15.215 (c)

Test Method: ANSI C63.10-2020:

Operating Environment:

Temperature: 24.0 °C Humidity: 50 % RH Atmospheric Pressure: 101 kPa

Requirements:

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector. Record the 20 dB bandwidth of the carrier.

According to the ANSI C63.10-2020, the emission bandwidth test method as follows.

Set span = 10 kHz, centered on a transmitting channel

$RBW \geq 1\%$ 20dB Bandwidth, $VBW \geq RBW$

Sweep = auto

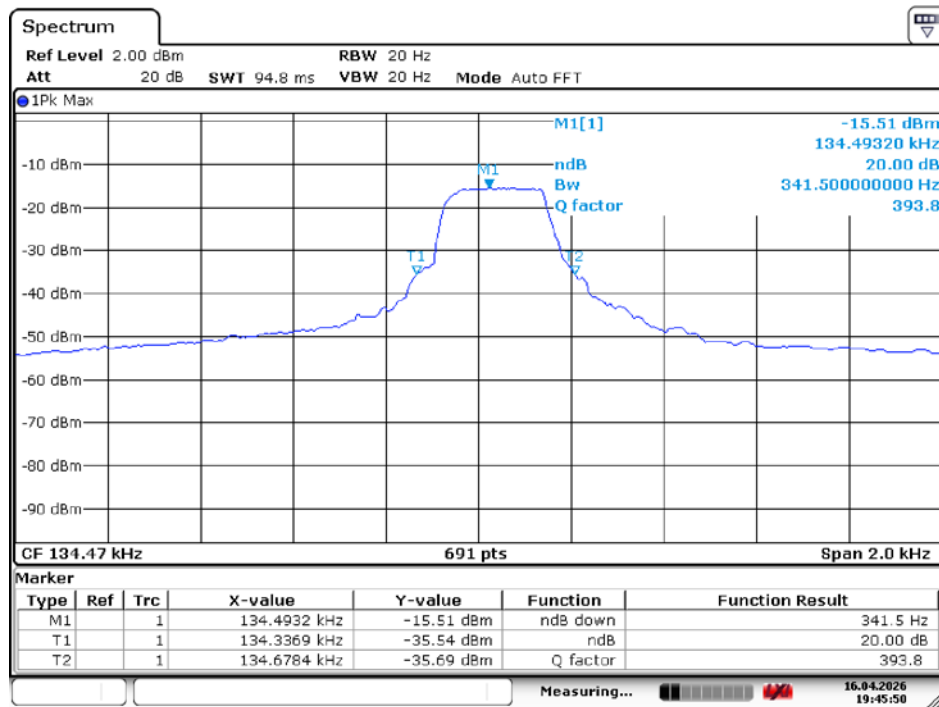
Detector function = peak

Trace = max hold

5.3.1 Test Result (Emission Bandwidth)

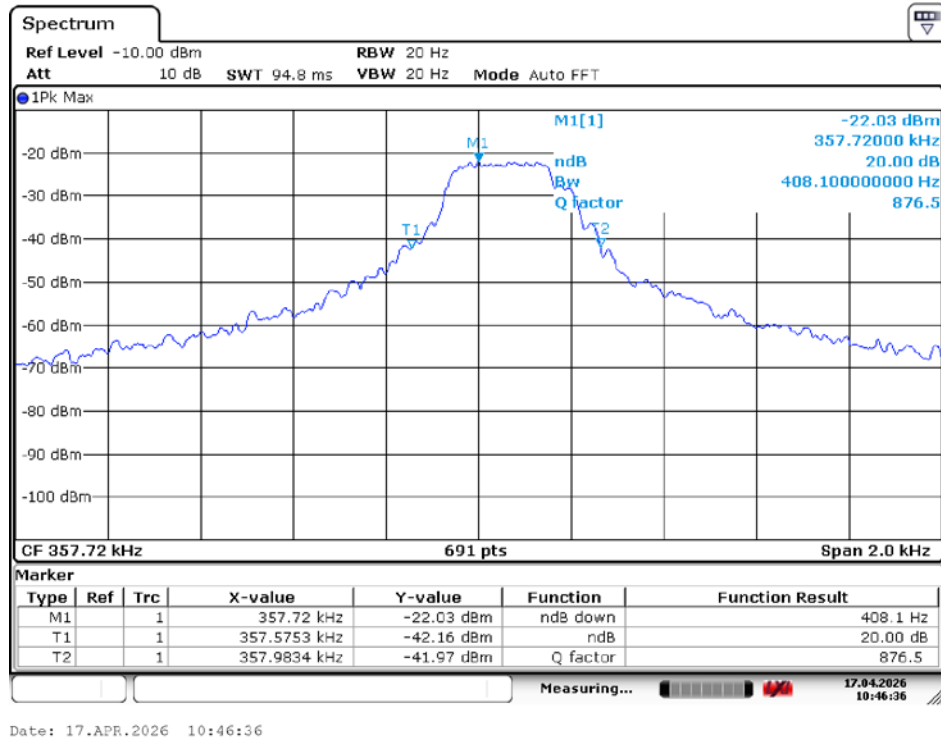
Test Frequency (KHz)	20dB Bandwidth (Hz)
134.47	341.5
357.72	408.1

For EPP 134 KHz



Date: 16.APR.2026 19:45:50

For MPP 360 KHz



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5.4 AC power-line conducted emissions 150 KHz to 30 MHz

Test Requirement:	FCC Part 15 C section 15.207
Test Voltage:	AC 120V, 60Hz
Test Method:	ANSI C63.10:2020 Section 6.2
Frequency Range:	150 KHz to 30 MHz
Detector:	Peak for pre-scan (9 KHz Resolution Bandwidth)
Test Limit:	

Limit for conducted disturbance at the mains ports of class B

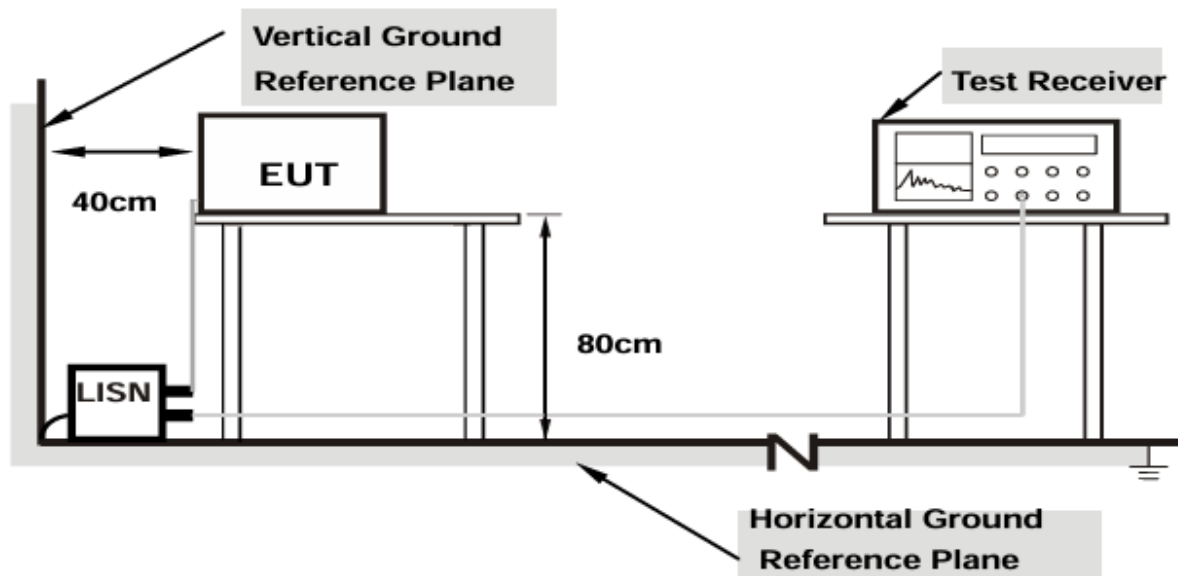
Frequency Range (MHz)	Class B Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
NOTE 1: The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

EUT Operation:

Test in normal operating mode. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture).

5.4.1 Test Configuration



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 $50\Omega/50\mu\text{H} + 5\Omega$ 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, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
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.

5.4.2 Test Result (AC power-line conducted emissions 150 KHz to 30 MHz)

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. For EUT the communicating was worst case mode.

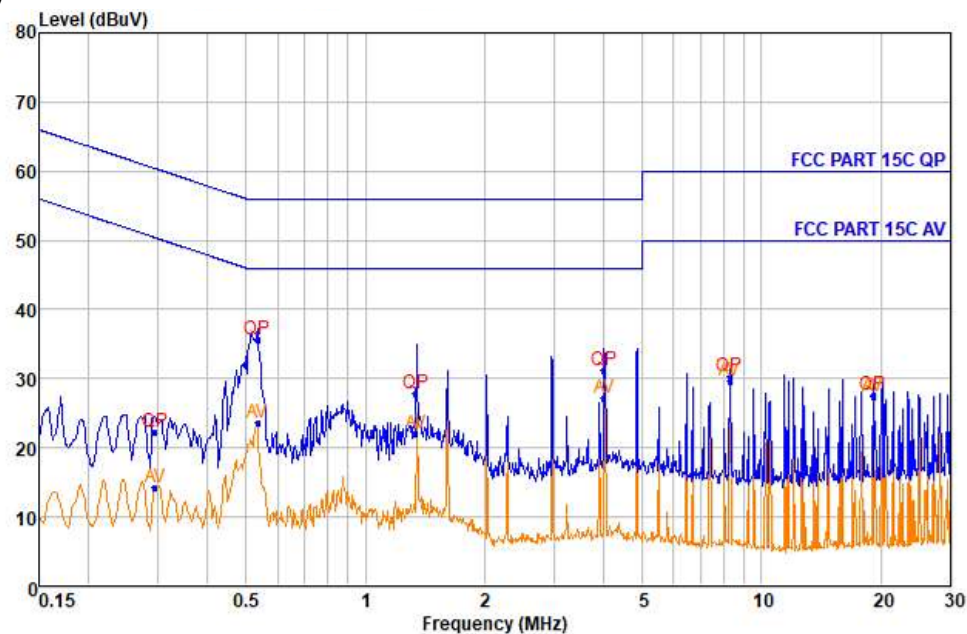
The following Quasi-Peak and Average measurements were performed on the EUT

For EPP 134 KHz

Live line

Peak Scan:

Level (dBμV)



NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.294	22.35	QP	9.67	0.24	60.41	-38.06
2	0.294	14.19	Average	9.67	0.24	50.41	-36.22
3	0.534	35.61	QP	9.66	0.27	56.00	-20.39
4	0.534	23.61	Average	9.66	0.27	46.00	-22.39
5	1.343	27.76	QP	9.66	0.32	56.00	-28.24
6	1.343	22.00	Average	9.66	0.32	46.00	-24.00
7	3.998	31.29	QP	9.61	0.39	56.00	-24.71
8	3.998	27.21	Average	9.61	0.39	46.00	-18.79
9	8.306	30.27	QP	9.68	0.43	60.00	-29.73
10	8.306	29.60	Average	9.68	0.43	50.00	-20.40
11	19.079	27.69	QP	9.68	0.47	60.00	-32.31
12	19.079	27.38	Average	9.68	0.47	50.00	-22.62

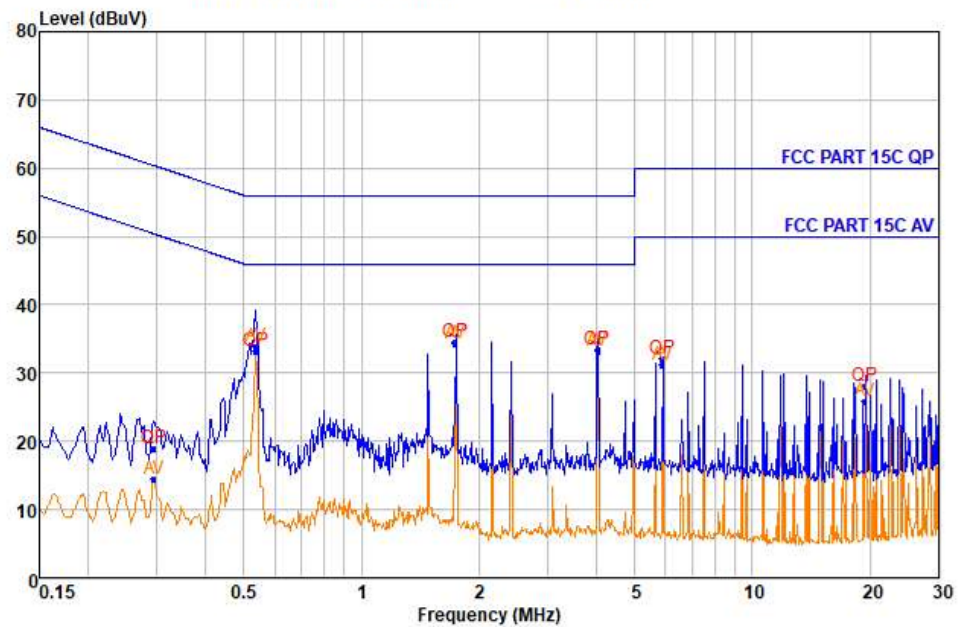
Level=Read Level + LISN Factor + Cable Loss

Quasi-peak and Average measurement

Neutral Line

Peak Scan:

Level (dBμV)



NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.294	19.03	QP	9.65	0.21	60.41	-41.38
2	0.294	14.42	Average	9.65	0.21	50.41	-35.99
3	0.537	33.30	QP	9.66	0.27	56.00	-22.70
4	0.537	33.97	Average	9.66	0.27	46.00	-12.03
5	1.740	34.63	QP	9.62	0.34	56.00	-21.37
6	1.740	34.23	Average	9.62	0.34	46.00	-11.77
7	4.020	33.46	QP	9.62	0.39	56.00	-22.54
8	4.020	33.10	Average	9.62	0.39	46.00	-12.90
9	5.883	32.05	QP	9.62	0.41	60.00	-27.95
10	5.883	31.13	Average	9.62	0.41	50.00	-18.87
11	19.385	28.11	QP	9.62	0.48	60.00	-31.89
12	19.385	25.89	Average	9.62	0.48	50.00	-24.11

Level=Read Level + LISN Factor + Cable Loss

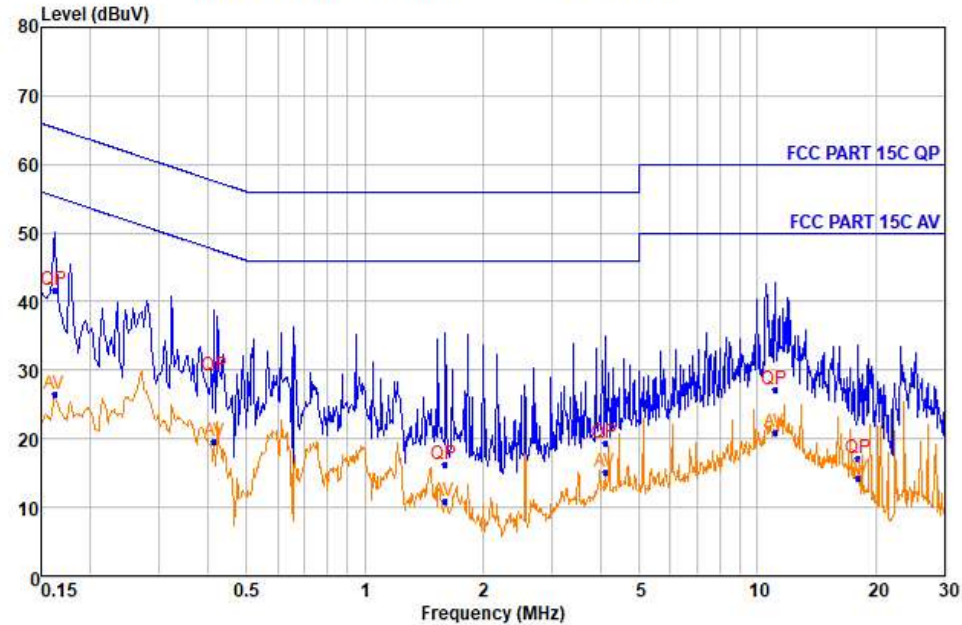
Quasi-Peak and Average measurement

For MPP 360 KHz

Live line

Peak Scan:

Level (dBμV)



NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.162	41.75	QP	9.69	0.20	65.34	-23.59
2	0.162	26.46	Average	9.69	0.20	55.34	-28.88
3	0.414	29.19	QP	9.66	0.26	57.57	-28.38
4	0.414	19.65	Average	9.66	0.26	47.57	-27.92
5	1.598	16.20	QP	9.66	0.33	56.00	-39.80
6	1.598	10.91	Average	9.66	0.33	46.00	-35.09
7	4.083	19.28	QP	9.61	0.39	56.00	-36.72
8	4.083	15.22	Average	9.61	0.39	46.00	-30.78
9	11.052	27.20	QP	9.66	0.44	60.00	-32.80
10	11.052	20.93	Average	9.66	0.44	50.00	-29.07
11	18.000	17.19	QP	9.69	0.47	60.00	-42.81
12	18.000	14.24	Average	9.69	0.47	50.00	-35.76

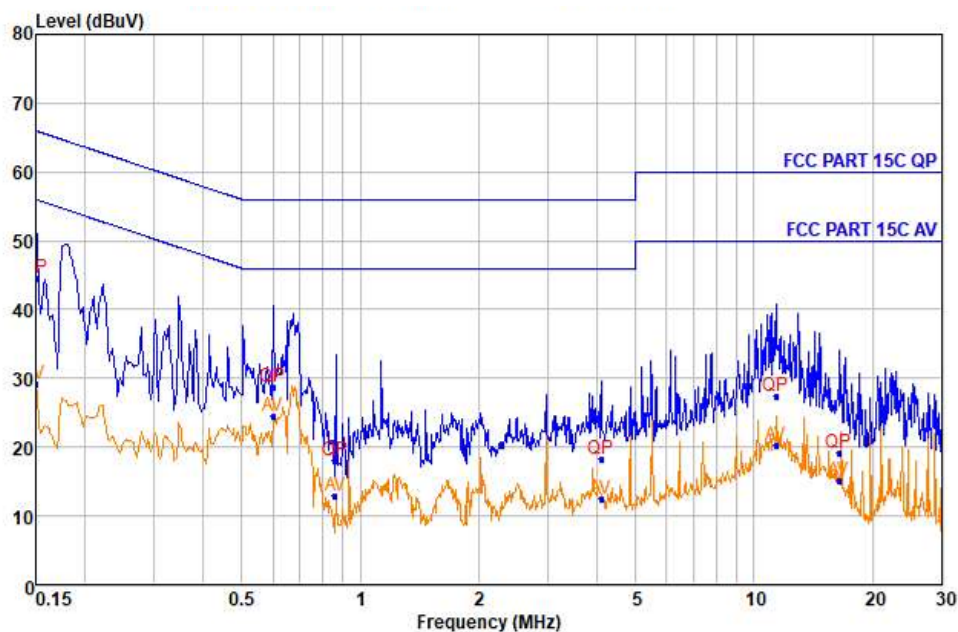
Level=Read Level + LISN Factor + Cable Loss

Quasi-Peak and Average measurement

Neutral Line

Peak Scan:

Level (dBμV)



NO.	Freq MHz	Level dBμV	Remark	LISN Factor dB	Cable Loss dB	Limit Line dBμV	Margin dB
1	0.150	44.60	QP	9.71	0.20	66.00	-21.40
2	0.150	29.09	Average	9.71	0.20	56.00	-26.91
3	0.600	28.85	QP	9.64	0.28	56.00	-27.15
4	0.600	24.53	Average	9.64	0.28	46.00	-21.47
5	0.865	18.12	QP	9.63	0.30	56.00	-37.88
6	0.865	12.85	Average	9.63	0.30	46.00	-33.15
7	4.083	18.27	QP	9.62	0.39	56.00	-37.73
8	4.083	12.38	Average	9.62	0.39	46.00	-33.62
9	11.348	27.43	QP	9.62	0.44	60.00	-32.57
10	11.348	20.26	Average	9.62	0.44	50.00	-29.74
11	16.449	19.16	QP	9.63	0.47	60.00	-40.84
12	16.449	15.18	Average	9.63	0.47	50.00	-34.82

Level=Read Level + LISN Factor + Cable Loss

Quasi-Peak and Average measurement

-- End of test report --