

TEST REPORT

Product	: LED wireless charging desk lamp
Trade mark	: YUNLU, Faithorse
Model/Type reference	: YL-T01A
Serial Number	: N/A
Report Number	: EED32Q80974301
FCC ID	: 2BDTY-YLT0112V
Date of Issue	: Oct. 12, 2024
Test Standards	: 47 CFR Part 15 Subpart C
Test result	: PASS

Prepared for:

Foshan Yunlu Lighting Factory**No. 1, Jiebei Road, Nanhai National Eco-industrial Zone, Danzao Town,
Nanhai District, Foshan City, Guangdong Province, P. R.China**

Prepared by:

**Centre Testing International Group Co., Ltd.
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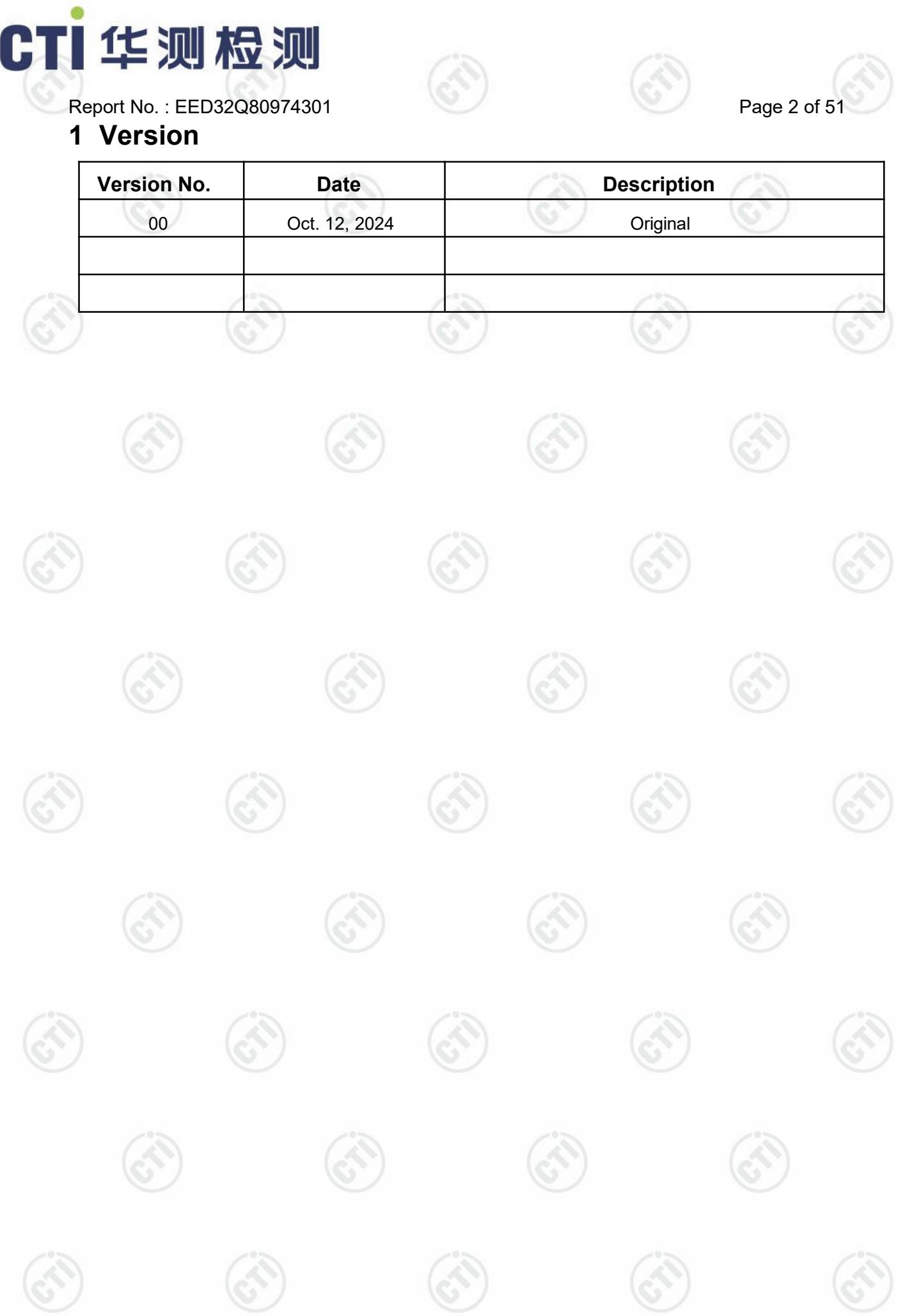
Frazer LiOct. 12, 2024

Check No.: 9306080724



1 Version

Version No.	Date	Description
00	Oct. 12, 2024	Original



2 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
Radiated Emissions	47 CFR Part 15 Subpart C Section 15.209	ANSI C63.10:2013	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

3 Contents

1 VERSION	2
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF EUT	5
4.3 TEST ENVIRONMENT AND MODE	6
4.4 DESCRIPTION OF SUPPORT UNITS	7
4.5 TEST LOCATION	7
4.6 DEVIATION FROM STANDARDS	7
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	7
4.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
4.9 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	8
5 EQUIPMENT LIST	9
6 TEST RESULTS AND MEASUREMENT DATA	11
6.1 ANTENNA REQUIREMENT	11
6.2 CONDUCTED EMISSIONS	12
6.3 RADIATED EMISSIONS	21
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP	39
APPENDIX 2 PHOTOGRAPHS OF EUT	41

4 General Information

4.1 Client Information

Applicant:	Foshan Yunlu Lighting Factory
Address of Applicant:	No. 1, Jiebei Road, Nanhai National Eco-industrial Zone, Danzao Town, Nanhai District, Foshan City, Guangdong Province, P. R.China
Manufacturer:	Foshan Yunlu Lighting Factory
Address of Manufacturer:	No. 1, Jiebei Road, Nanhai National Eco-industrial Zone, Danzao Town, Nanhai District, Foshan City, Guangdong Province, P. R.China
Factory:	Foshan Yunlu Lighting Factory
Address of Factory:	No. 1, Jiebei Road, Nanhai National Eco-industrial Zone, Danzao Town, Nanhai District, Foshan City, Guangdong Province, P. R.China

4.2 General Description of EUT

Product Name:	LED wireless charging desk lamp
Model No.(EUT):	YL-T01A
Trade Mark:	YUNLU, Faithorse
Device type:	Desktop applications device
Frequency Range:	110kHz-148kHz
Center Frequency:	148KHz
Modulation Type:	ASK
Antenna Type:	Coil antenna
Power Supply:	Model: XY15SR-120125VQ-UW INPUT:100~240V,50/60Hz 0.3A Max OUTPUT:12V/1.25A
Test Power Grade:	Default
Test Software of EUT:	RF test
Sample Received Date:	Jul. 08, 2024
Sample tested Date:	Jul. 23, 2024 to Aug. 02, 2024

4.3 Test Environment and Mode

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Test mode: Transmitting mode	
Mode a:	Wireless charging mode(Null load)(Connect to adapter)
Mode b:	Wireless charging mode(33.3% load)(Connect to adapter)
Mode c:	Wireless charging mode(66.7% load)(Connect to adapter)
Mode d:	Wireless charging mode(Full load)(Connect to adapter)

Note:

1.Wireless output:5W (maximum wireless output 5W during charging)

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
AC adapter	MI	MDY-11-EF	FCC ID and DOC	CTI
Intelligent wireless charging full function test module	YBZ	/	FCC ID and DOC	Client

4.5 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

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.

4.9 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-12.75GHz)
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%

5 Equipment List

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025
LISN	R&S	ENV216	100098	09-22-2023	09-21-2024
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-14-2023	12-13-2024

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/22/2023	09/21/2024
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023	12/13/2024
Horn Antenna	A.H.SYSTEM S	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

6 Test results and Measurement Data

6.1 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 attached on the main PCB and no consideration of replacement.

6.2 Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207

Test Method: ANSI C63.10: 2013

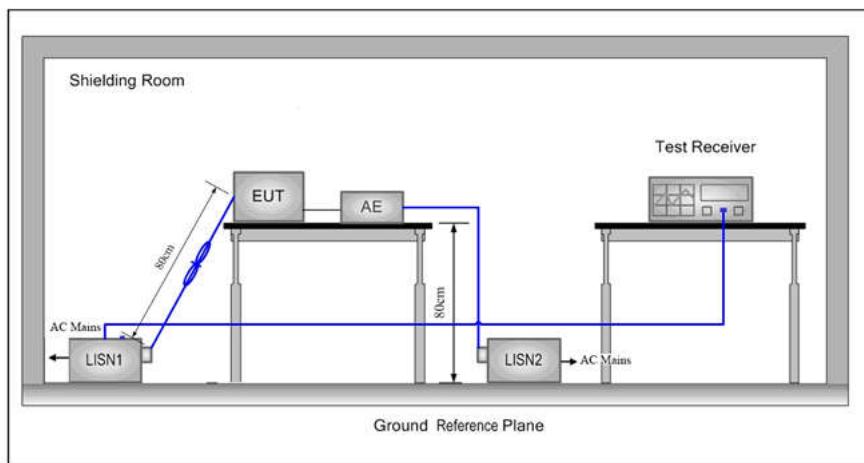
Test Frequency Range: 150kHz to 30MHz

Frequency range (MHz)	Limit (dB μ V)	
	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.

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

Test Procedure:



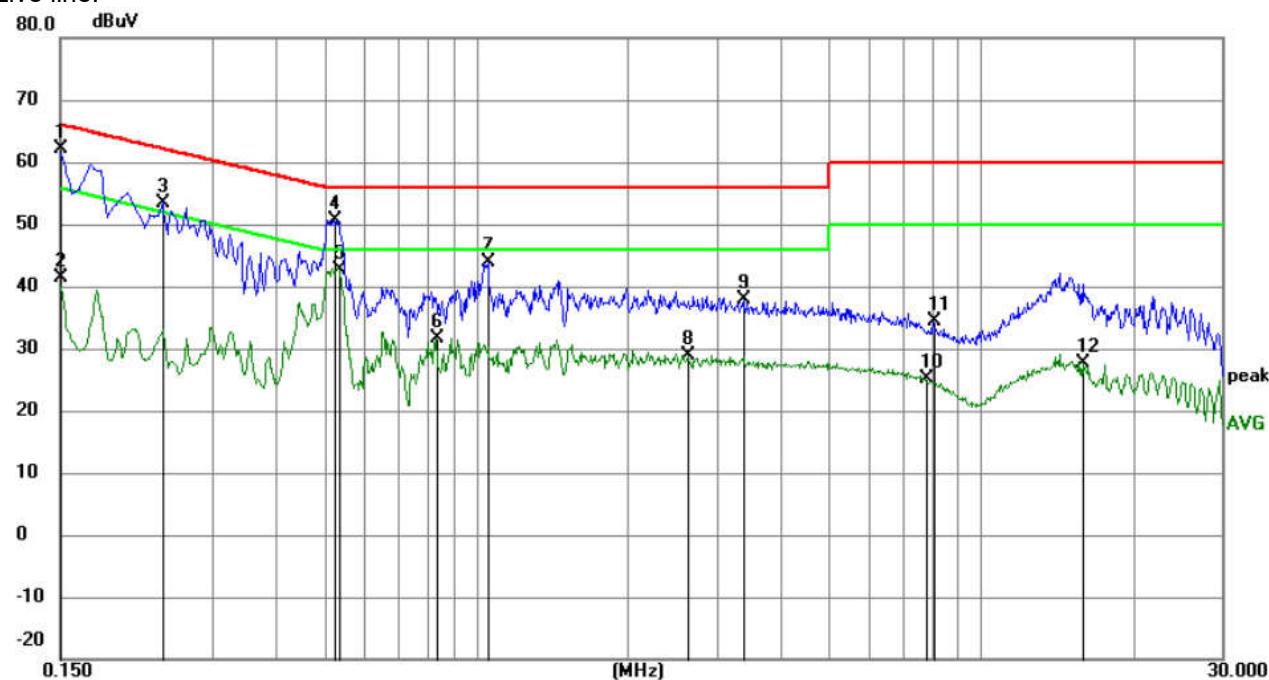
Test Mode:

Transmitting mode refer to section 4.3

Test Results:

Measurement Data (Mode a):

Live line:



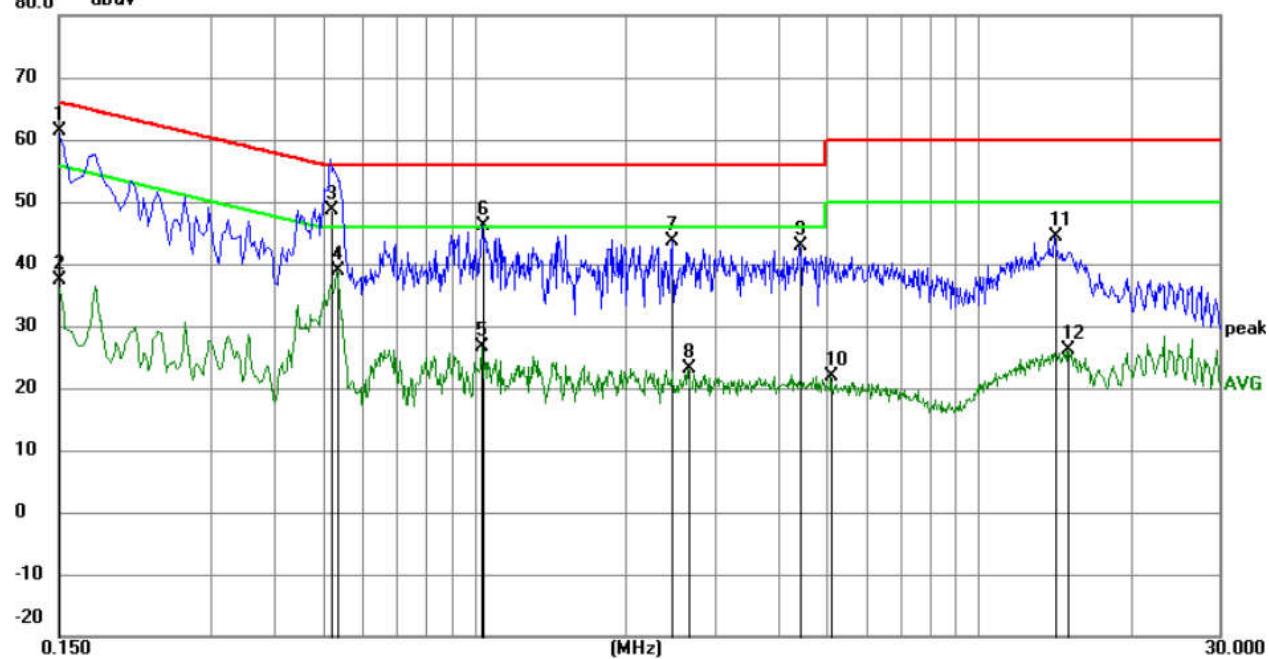
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dB	Detector	
1		0.1500	52.27	9.87	62.14	66.00	-3.86	QP
2		0.1500	31.55	9.87	41.42	56.00	-14.58	AVG
3		0.2400	43.73	9.77	53.50	62.10	-8.60	QP
4		0.5235	40.84	9.73	50.57	56.00	-5.43	QP
5	*	0.5325	32.88	9.72	42.60	46.00	-3.40	AVG
6		0.8340	21.82	9.79	31.61	46.00	-14.39	AVG
7		1.0590	34.11	9.74	43.85	56.00	-12.15	QP
8		2.6295	19.21	9.77	28.98	46.00	-17.02	AVG
9		3.3900	28.06	9.79	37.85	56.00	-18.15	QP
10		7.7820	15.39	9.84	25.23	50.00	-24.77	AVG
11		8.0430	24.51	9.84	34.35	60.00	-25.65	QP
12		15.9630	17.75	9.89	27.64	50.00	-22.36	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.

Neutral line:

80.0 dBuV

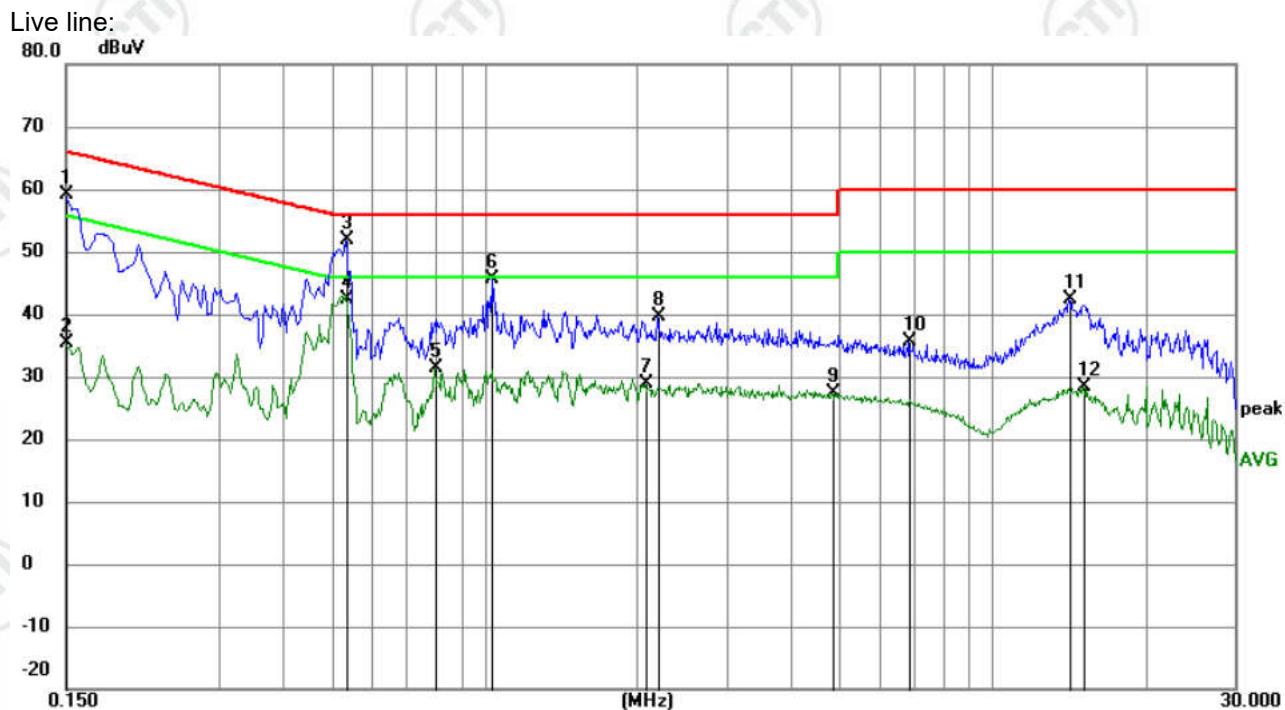


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	51.43	9.87	61.30	66.00	-4.70	QP	
2		0.1500	27.59	9.87	37.46	56.00	-18.54	AVG	
3		0.5190	38.96	9.74	48.70	56.00	-7.30	QP	
4		0.5325	29.16	9.72	38.88	46.00	-7.12	AVG	
5		1.0365	16.95	9.74	26.69	46.00	-19.31	AVG	
6		1.0410	36.40	9.74	46.14	56.00	-9.86	QP	
7		2.4675	33.88	9.76	43.64	56.00	-12.36	QP	
8		2.6520	13.44	9.77	23.21	46.00	-22.79	AVG	
9		4.4160	33.09	9.82	42.91	56.00	-13.09	QP	
10		5.0910	12.02	9.84	21.86	50.00	-28.14	AVG	
11		14.2125	34.59	9.85	44.44	60.00	-15.56	QP	
12		15.0360	16.20	9.85	26.05	50.00	-23.95	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.

Measurement Data (Mode b):



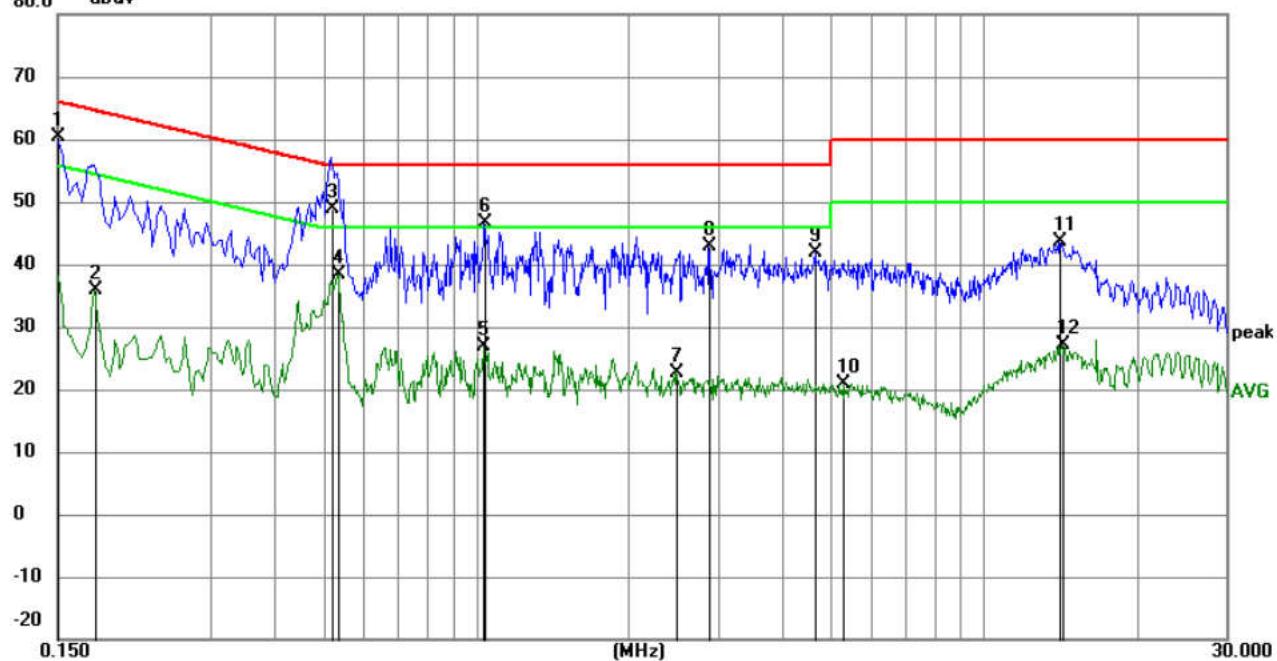
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	49.30	9.87	59.17	66.00	-6.83	QP	
2		0.1500	25.53	9.87	35.40	56.00	-20.60	AVG	
3		0.5325	42.24	9.72	51.96	56.00	-4.04	QP	
4	*	0.5325	32.68	9.72	42.40	46.00	-3.60	AVG	
5		0.7980	21.51	9.78	31.29	46.00	-14.71	AVG	
6		1.0365	35.81	9.74	45.55	56.00	-10.45	QP	
7		2.0670	19.11	9.75	28.86	46.00	-17.14	AVG	
8		2.1929	29.94	9.76	39.70	56.00	-16.30	QP	
9		4.8345	17.62	9.83	27.45	46.00	-18.55	AVG	
10		6.8460	25.82	9.85	35.67	60.00	-24.33	QP	
11		14.1405	32.43	9.85	42.28	60.00	-17.72	QP	
12		15.0855	18.41	9.85	28.26	50.00	-21.74	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.

Neutral line:

80.0 dBuV



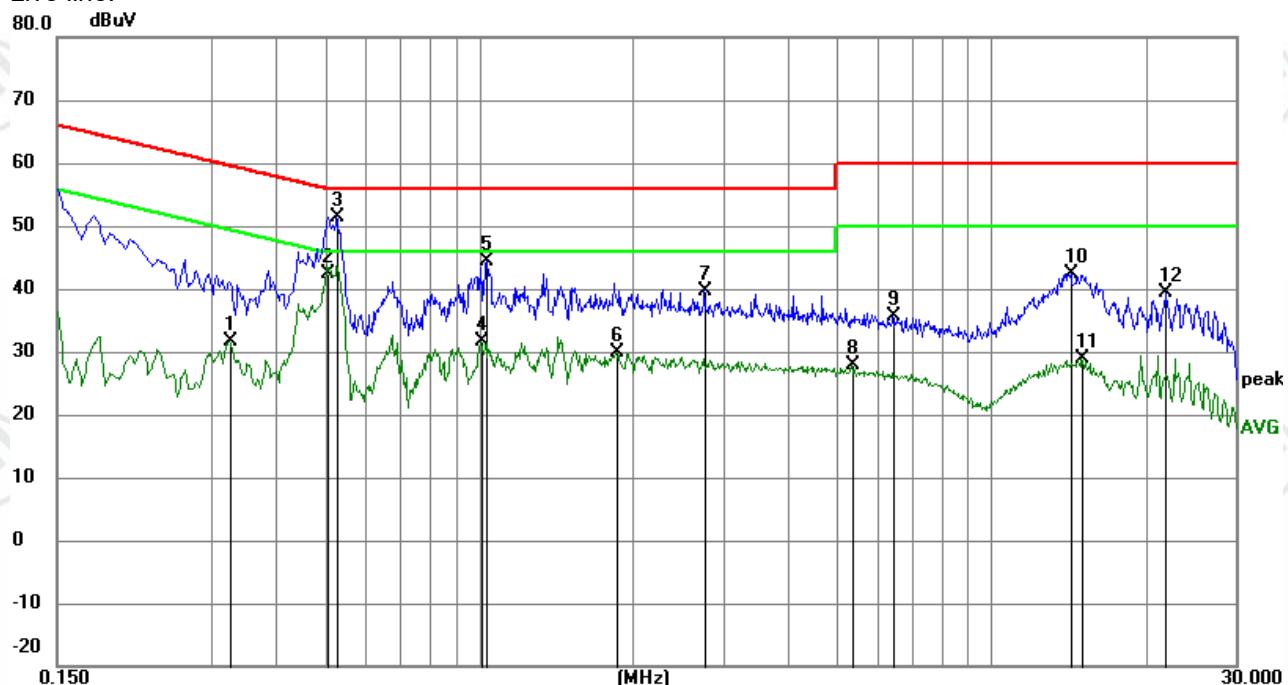
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	50.44	9.87	60.31	66.00	-5.69	QP	
2		0.1770	26.01	9.90	35.91	54.63	-18.72	AVG	
3		0.5190	39.16	9.74	48.90	56.00	-7.10	QP	
4		0.5325	28.72	9.72	38.44	46.00	-7.56	AVG	
5		1.0365	17.06	9.74	26.80	46.00	-19.20	AVG	
6		1.0410	37.01	9.74	46.75	56.00	-9.25	QP	
7		2.4810	12.99	9.76	22.75	46.00	-23.25	AVG	
8		2.8815	32.99	9.78	42.77	56.00	-13.23	QP	
9		4.6635	32.13	9.83	41.96	56.00	-14.04	QP	
10		5.2890	11.03	9.84	20.87	50.00	-29.13	AVG	
11		14.0910	33.77	9.85	43.62	60.00	-16.38	QP	
12		14.2305	17.34	9.85	27.19	50.00	-22.81	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.

Measurement Data (Mode c):

Live line:



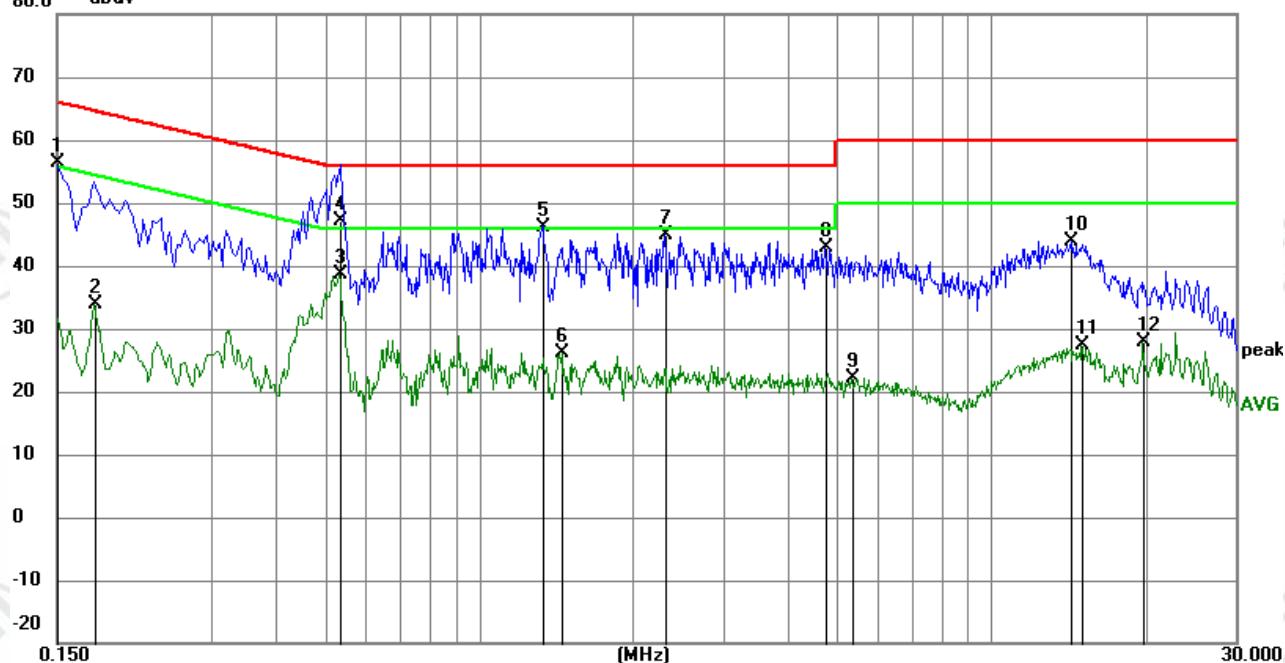
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dB			
1		0.3255	22.15	9.60	31.75	49.57	-17.82	AVG	
2	*	0.5055	32.53	9.77	42.30	46.00	-3.70	AVG	
3		0.5280	41.77	9.73	51.50	56.00	-4.50	QP	
4		1.0050	21.79	9.74	31.53	46.00	-14.47	AVG	
5		1.0320	34.71	9.74	44.45	56.00	-11.55	QP	
6		1.8555	20.13	9.75	29.88	46.00	-16.12	AVG	
7		2.7510	29.98	9.77	39.75	56.00	-16.25	QP	
8		5.3520	17.95	9.84	27.79	50.00	-22.21	AVG	
9		6.4320	25.72	9.85	35.57	60.00	-24.43	QP	
10		14.3070	32.54	9.85	42.39	60.00	-17.61	QP	
11		15.0405	19.12	9.85	28.97	50.00	-21.03	AVG	
12		21.9345	29.46	9.99	39.45	60.00	-20.55	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.

Neutral line:

80.0 dBuV



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
1		0.1500	46.45	9.87	56.32	66.00	-9.68	QP	
2		0.1770	24.04	9.90	33.94	54.63	-20.69	AVG	
3	*	0.5325	28.88	9.72	38.60	46.00	-7.40	AVG	
4		0.5370	37.49	9.71	47.20	56.00	-8.80	QP	
5		1.3335	36.51	9.74	46.25	56.00	-9.75	QP	
6		1.4505	16.30	9.74	26.04	46.00	-19.96	AVG	
7		2.3010	35.12	9.76	44.88	56.00	-11.12	QP	
8		4.7220	33.01	9.83	42.84	56.00	-13.16	QP	
9		5.3340	12.30	9.84	22.14	50.00	-27.86	AVG	
10		14.3025	33.93	9.85	43.78	60.00	-16.22	QP	
11		15.0540	17.41	9.85	27.26	50.00	-22.74	AVG	
12		19.7655	17.83	10.03	27.86	50.00	-22.14	AVG	

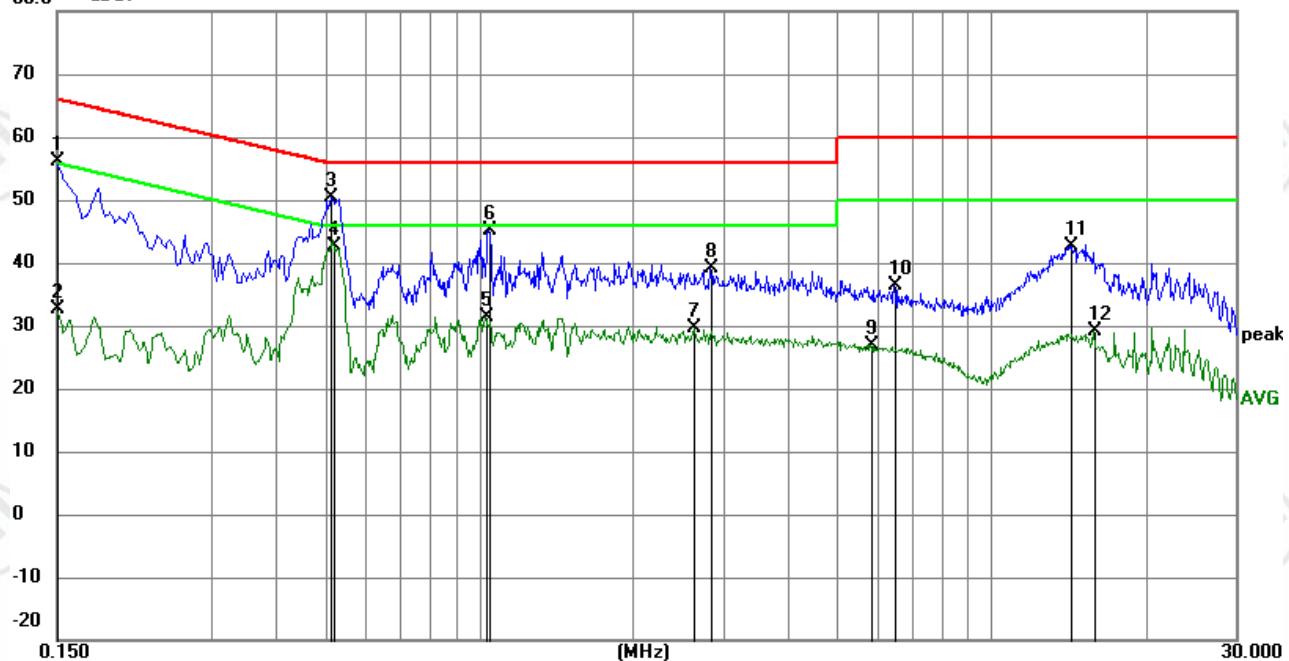
Remark:

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.

Measurement Data (Mode d):

Live line:

80.0 dBuV

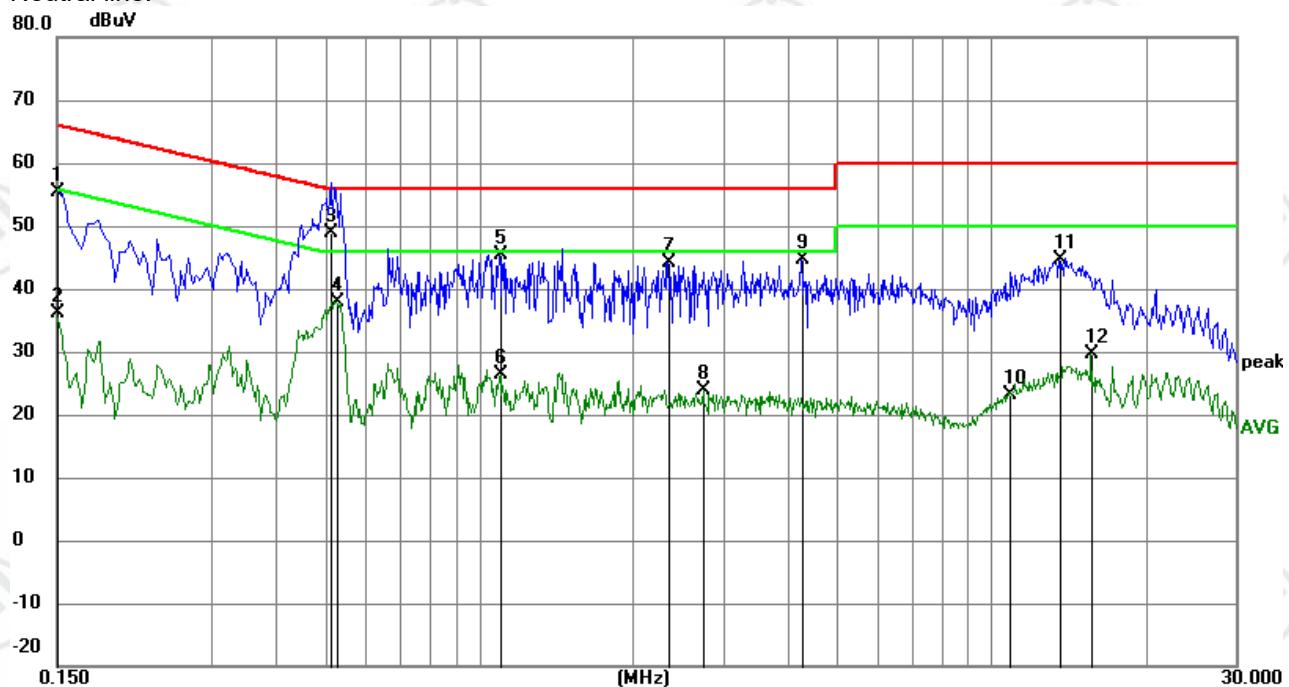


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	46.20	9.87	56.07	66.00	-9.93	QP	
2		0.1500	22.87	9.87	32.74	56.00	-23.26	AVG	
3		0.5144	40.51	9.75	50.26	56.00	-5.74	QP	
4	*	0.5190	32.96	9.74	42.70	46.00	-3.30	AVG	
5		1.0275	21.58	9.74	31.32	46.00	-14.68	AVG	
6		1.0455	35.32	9.74	45.06	56.00	-10.94	QP	
7		2.6340	19.98	9.77	29.75	46.00	-16.25	AVG	
8		2.8365	29.32	9.78	39.10	56.00	-16.90	QP	
9		5.8335	17.06	9.84	26.90	50.00	-23.10	AVG	
10		6.4770	26.53	9.85	36.38	60.00	-23.62	QP	
11		14.2710	32.86	9.85	42.71	60.00	-17.29	QP	
12		15.8100	19.29	9.88	29.17	50.00	-20.83	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.

Neutral line:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
1		0.1500	45.44	9.87	55.31	66.00	-10.69	QP	
2		0.1500	26.38	9.87	36.25	56.00	-19.75	AVG	
3	*	0.5144	39.25	9.75	49.00	56.00	-7.00	QP	
4		0.5280	28.23	9.73	37.96	46.00	-8.04	AVG	
5		1.0950	35.71	9.74	45.45	56.00	-10.55	QP	
6		1.1040	16.63	9.74	26.37	46.00	-19.63	AVG	
7		2.3370	34.45	9.76	44.21	56.00	-11.79	QP	
8		2.7420	14.00	9.77	23.77	46.00	-22.23	AVG	
9		4.2630	34.87	9.82	44.69	56.00	-11.31	QP	
10		10.8105	13.34	9.83	23.17	50.00	-26.83	AVG	
11		13.6140	34.78	9.84	44.62	60.00	-15.38	QP	
12		15.6660	19.70	9.88	29.58	50.00	-20.42	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.

6.3 Radiated Emissions

Test Requirement: 47 CFR Part 15C Section 15.231(b) and 15.209

Test Method: ANSI C63.10 2013

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

Test Setup:

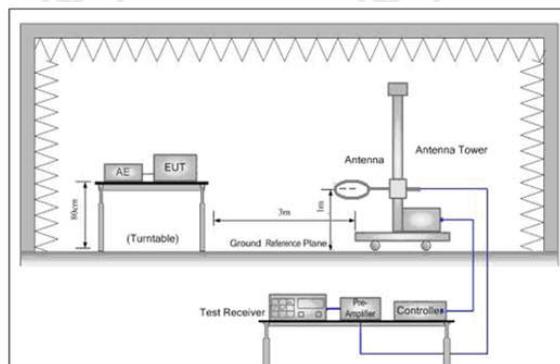


Figure . Below 30MHz

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 rota table 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.

Limit:
(Spurious
Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/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

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.

Test Mode:

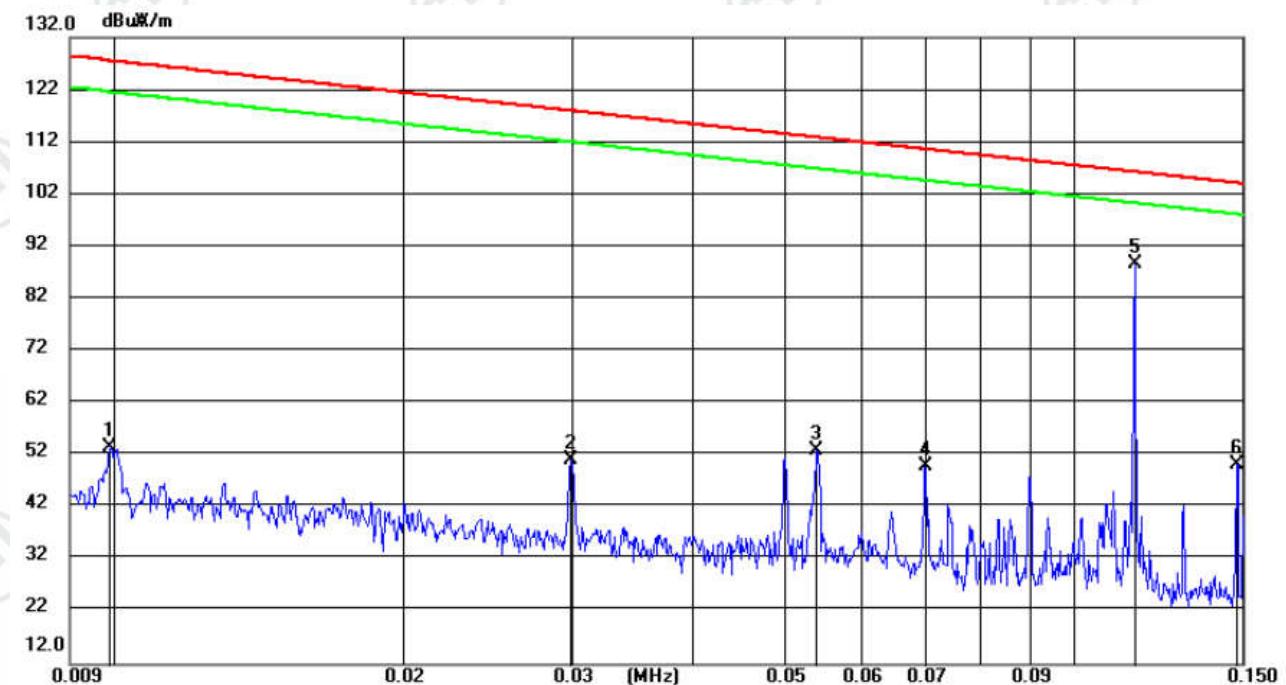
Transmitting mode, refer to section 4.3

Test Results:

Pass

9kHz~150kHz:

Measurement Data (Mode a):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree								
									MHz	dBuV	dB/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0099	32.21	21.30	53.51	127.48	-73.97	peak	100	36							
2		0.0299	30.20	20.92	51.12	117.94	-66.82	peak	100	7							
3		0.0539	32.04	20.88	52.92	112.85	-59.93	peak	100	203							
4		0.0700	29.11	20.83	49.94	110.60	-60.66	peak	100	7							
5	*	0.1158	67.84	20.85	88.69	106.25	-17.56	peak	100	21							
6		0.1479	29.34	20.91	50.25	104.14	-53.89	peak	100	138							

Remark:

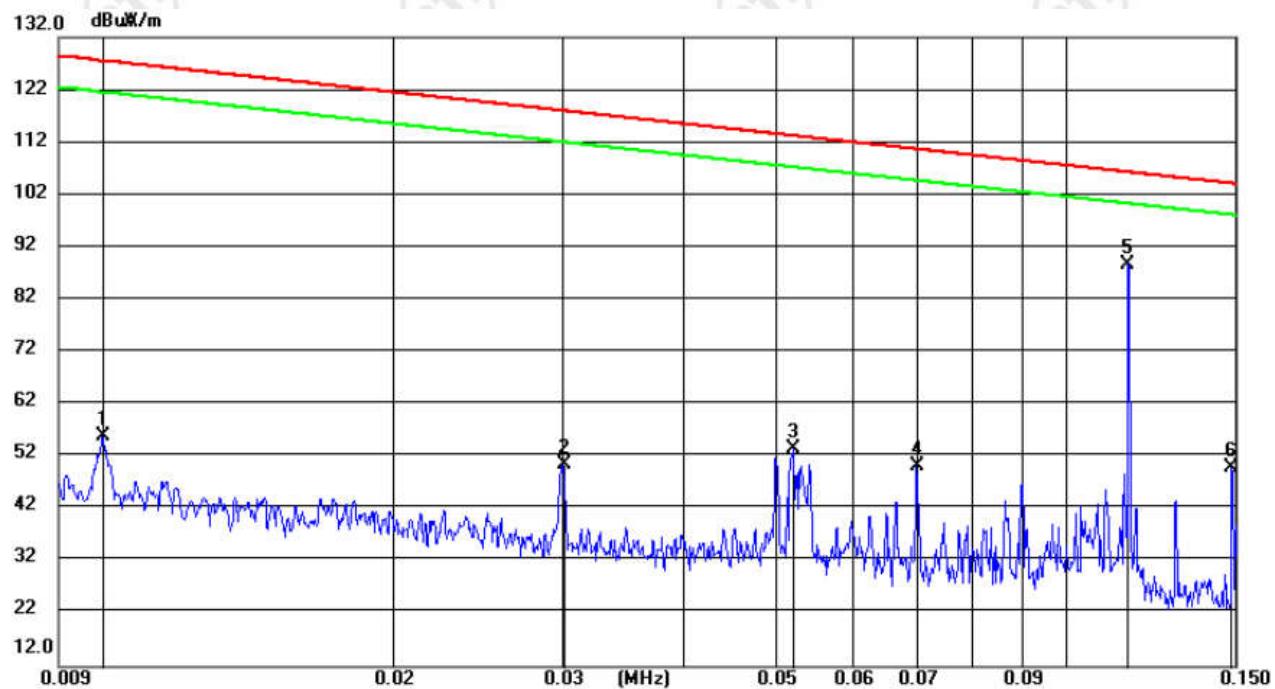
- According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

Measurement Data (Mode b):



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		0.0100	34.70	21.30	56.00	127.49	-71.49	peak	100	352
2		0.0301	29.76	20.92	50.68	117.95	-67.27	peak	100	111
3		0.0522	32.65	20.89	53.54	113.19	-59.65	peak	100	155
4		0.0700	29.33	20.83	50.16	110.65	-60.49	peak	100	352
5	*	0.1161	67.69	20.85	88.54	106.27	-17.73	peak	100	24
6		0.1487	29.06	20.91	49.97	104.12	-54.15	peak	100	169

Remark:

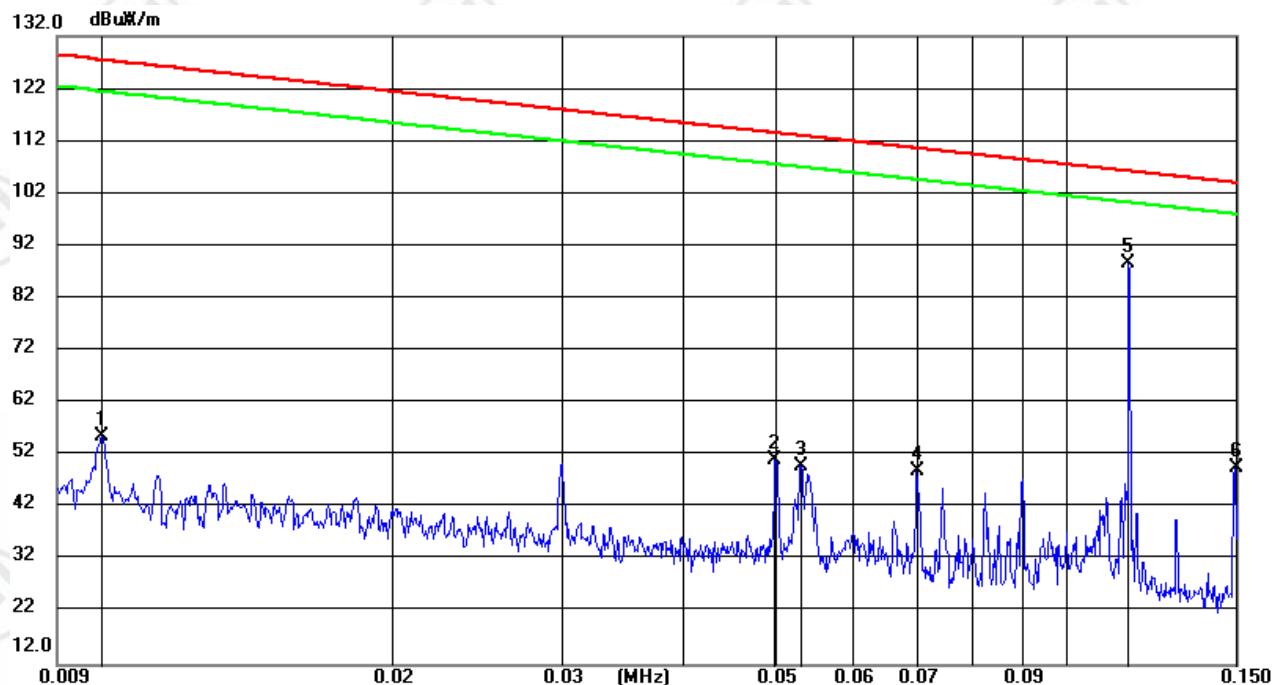
1. According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

Measurement Data (Mode c):



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	
										Detector	
1		0.0100	34.29	21.30	55.59	127.40	-71.81	peak	100	87	
2		0.0499	30.18	20.90	51.08	113.52	-62.44	peak	100	7	
3		0.0531	29.20	20.89	50.09	112.98	-62.89	peak	100	203	
4		0.0700	28.28	20.83	49.11	110.60	-61.49	peak	100	7	
5	*	0.1161	67.69	20.85	88.54	106.23	-17.69	peak	100	22	
6		0.1496	28.77	20.92	49.69	104.04	-54.35	peak	100	138	

Remark:

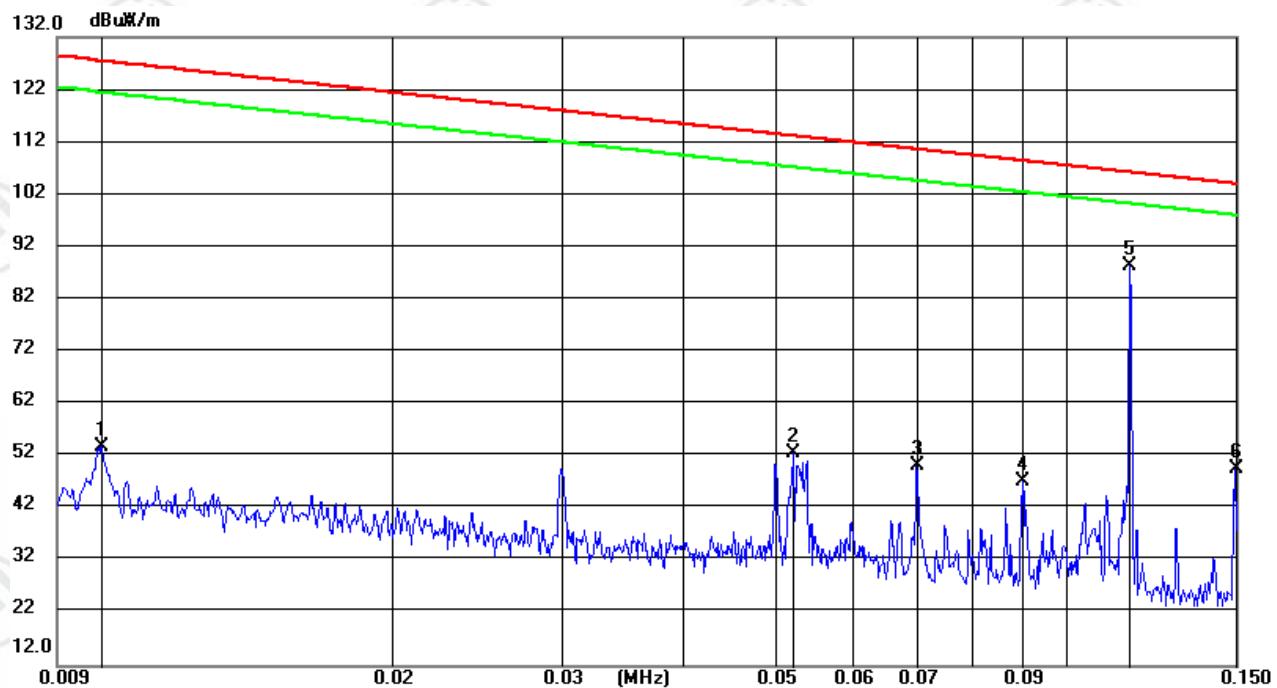
- According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

Measurement Data (Mode d):



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
			Level							
		MHz	dBuV	dB/m		dBuV/m	dB	Detector	Height	Degree
1		0.0100	32.60	21.30	53.90	127.40	-73.50	peak	100	61
2		0.0522	31.73	20.89	52.62	113.13	-60.51	peak	100	156
3		0.0700	29.34	20.83	50.17	110.60	-60.43	peak	100	352
4		0.0901	26.50	20.85	47.35	108.42	-61.07	peak	100	352
5 *		0.1164	67.60	20.86	88.46	106.21	-17.75	peak	100	25
6		0.1496	28.85	20.92	49.77	104.04	-54.27	peak	100	171

Remark:

- According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

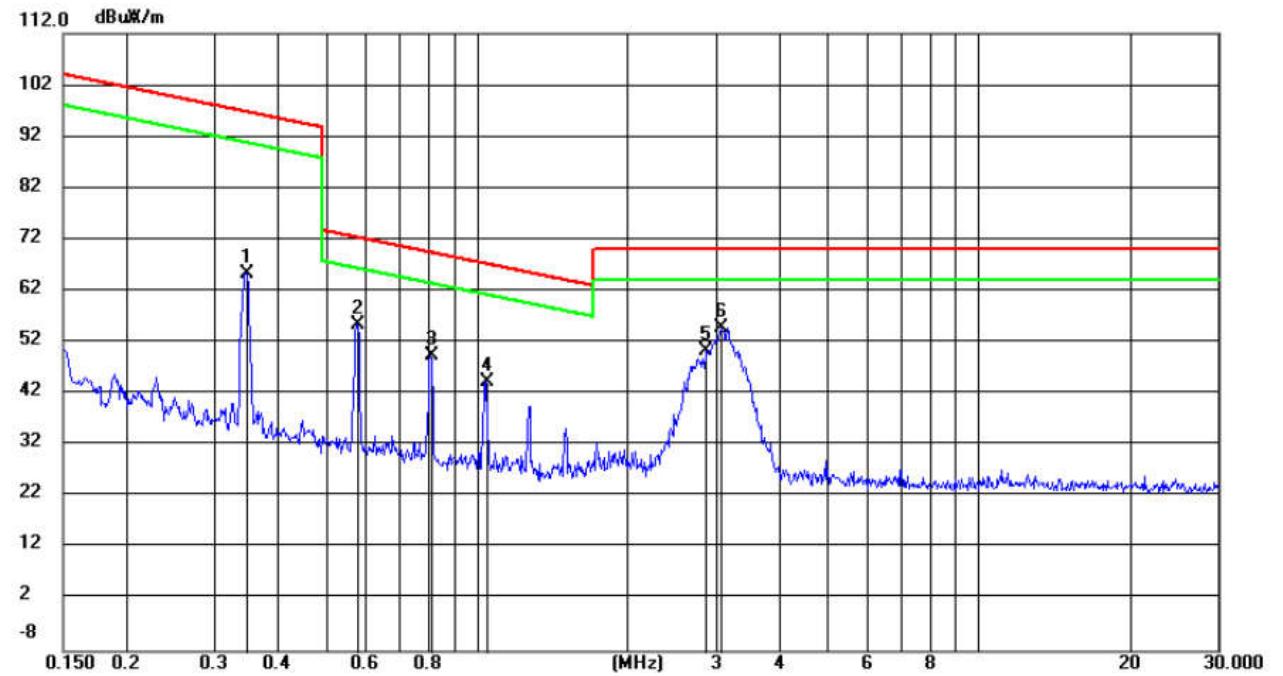
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

150kHz~30MHz:

Measurement Data (Mode a):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		0.3465	44.59	20.85	65.44	96.80	-31.36	peak	100	29
2		0.5792	34.88	20.54	55.42	72.35	-16.93	peak	100	21
3		0.8088	28.84	20.53	49.37	69.46	-20.09	peak	100	7
4		1.0430	23.94	20.49	44.43	67.26	-22.83	peak	100	21
5		2.8692	30.03	20.41	50.44	70.00	-19.56	peak	100	276
6	*	3.0738	34.42	20.41	54.83	70.00	-15.17	peak	100	152

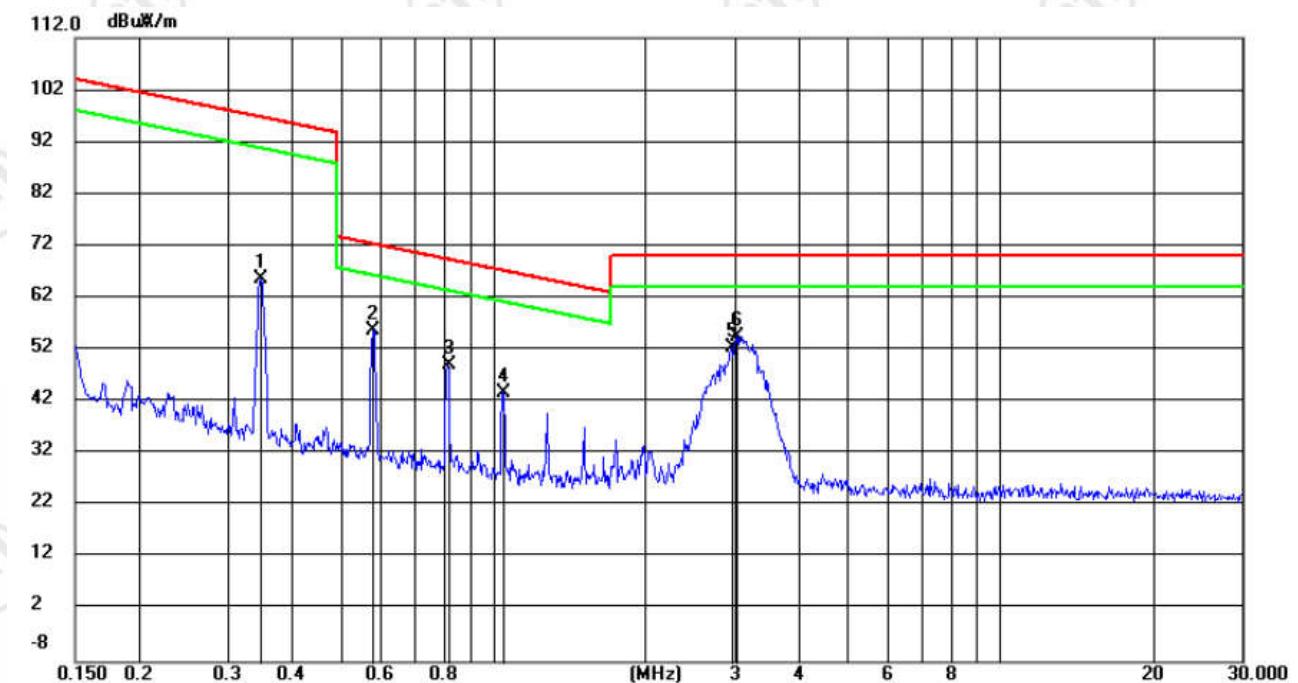
Remark:

1. According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
2. 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 - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

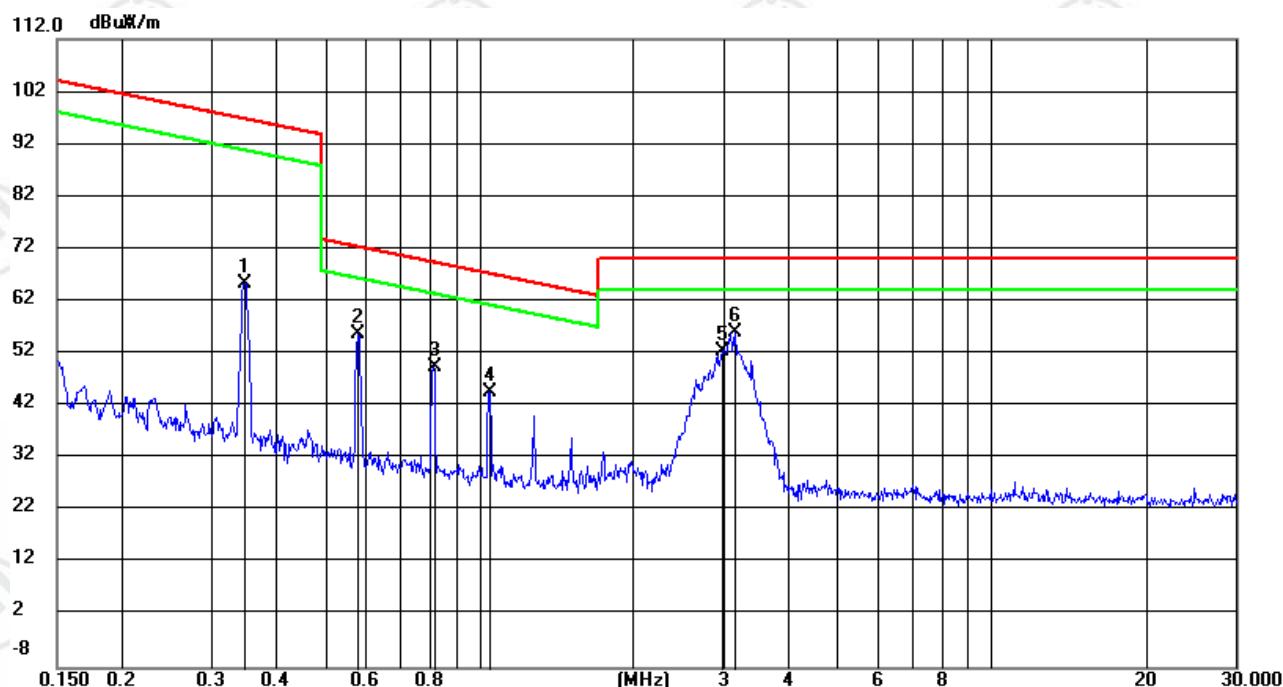
Measurement Data (Mode b):

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		0.3483	44.71	20.85	65.56	96.75	-31.19	peak	100	24
2		0.5792	35.16	20.54	55.70	72.35	-16.65	peak	100	9
3		0.8131	28.78	20.51	49.29	69.41	-20.12	peak	100	2
4		1.0430	23.24	20.49	43.73	67.26	-23.53	peak	100	31
5		2.9463	31.90	20.41	52.31	70.00	-17.69	peak	100	118
6	*	3.0253	34.24	20.41	54.65	70.00	-15.35	peak	100	257

Remark:

- According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
- 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 - Correct Factor
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning of horizontal which it is the worst case.

Measurement Data (Mode c):



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table		
			Level	Factor	ment					Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		0.3483	44.60	20.85	65.45	96.75	-31.30	peak	100	22	
2		0.5792	35.09	20.54	55.63	72.35	-16.72	peak	100	29	
3		0.8131	28.84	20.51	49.35	69.41	-20.06	peak	100	22	
4		1.0485	24.16	20.49	44.65	67.21	-22.56	peak	100	7	
5		2.9776	31.97	20.41	52.38	70.00	-17.62	peak	100	313	
6	*	3.1563	35.52	20.41	55.93	70.00	-14.07	peak	100	72	

Remark:

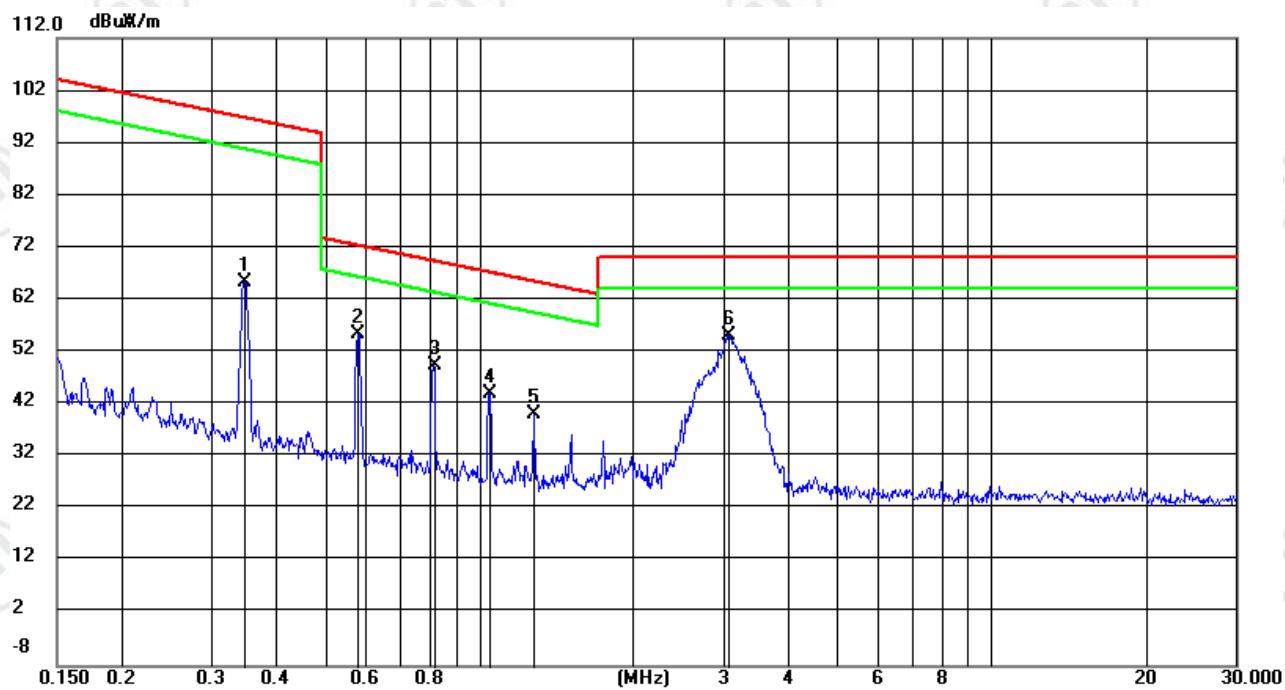
- According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

Measurement Data (Mode d):



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	0.3483	44.58	20.85	65.43	96.75	-31.32	peak	100	17
2	0.5792	34.99	20.54	55.53	72.35	-16.82	peak	100	17
3	0.8131	28.99	20.51	49.50	69.41	-19.91	peak	100	3
4	1.0485	23.48	20.49	43.97	67.21	-23.24	peak	100	24
5	1.2756	19.56	20.48	40.04	65.51	-25.47	peak	100	10
6 *	3.0576	34.88	20.41	55.29	70.00	-14.71	peak	100	352

Remark:

- According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
- 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 - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

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

30MHz-1GHz:

Measurement Data (Mode a):

Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB/m	dBuV/m	dB	Detector	cm	degree	Comment
1		313.8257	13.57	16.94	30.51	46.00	-15.49	QP	100	251
2	*	239.1053	16.86	14.26	31.12	46.00	-14.88	QP	200	283
3		50.4795	7.79	14.13	21.92	40.00	-18.08	QP	100	219
4		33.3161	8.55	13.11	21.66	40.00	-18.34	QP	200	337
5		365.1547	10.75	17.97	28.72	46.00	-17.28	QP	100	70
6		491.4335	4.44	20.72	25.16	46.00	-20.84	QP	100	219

Remark:

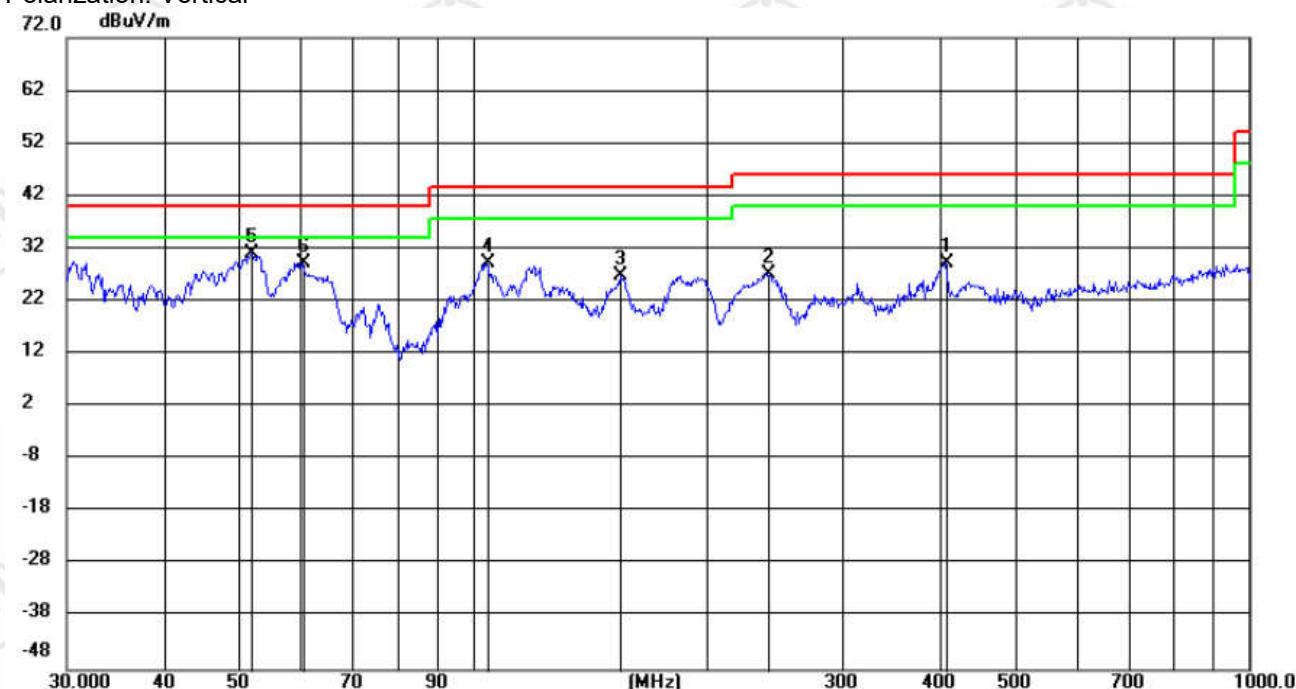
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode a):

Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		406.3728	10.50	18.81	29.31	46.00	-16.69	QP	100	10
2		240.0294	12.99	14.29	27.28	46.00	-18.72	QP	100	10
3		155.1193	16.76	10.00	26.76	43.50	-16.74	QP	100	193
4		104.2432	15.95	13.34	29.29	43.50	-14.21	QP	200	43
5	*	51.9248	17.08	14.00	31.08	40.00	-8.92	QP	100	151
6		60.3012	16.16	13.19	29.35	40.00	-10.65	QP	100	352

Remark:

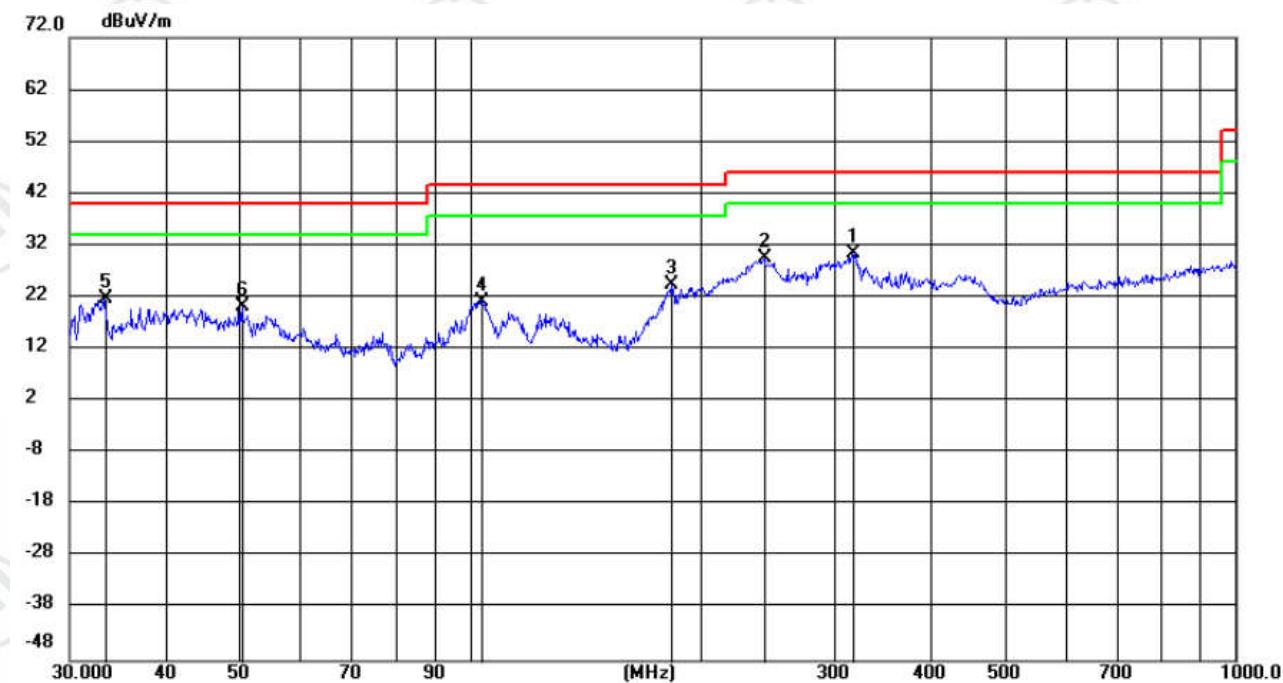
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode b):

Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table		
			Level	Factor	ment					Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	316.3670	13.44	17.00	30.44	46.00	-15.56	QP	200	292	
2		242.6954	15.25	14.40	29.65	46.00	-16.35	QP	100	249	
3		183.6507	12.26	12.05	24.31	43.50	-19.19	QP	200	7	
4		103.7509	7.92	13.37	21.29	43.50	-22.21	QP	100	345	
5		33.3511	8.73	13.12	21.85	40.00	-18.15	QP	100	302	
6		50.4885	6.08	14.13	20.21	40.00	-19.79	QP	100	91	

Remark:

1. 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 - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode b):

Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1		180.6171	18.52	11.90	30.42	43.50	-13.08	QP	100 0
2		102.9355	19.86	13.41	33.27	43.50	-10.23	QP	100 31
3		42.4508	18.72	14.03	32.75	40.00	-7.25	QP	100 310
4	*	31.3496	20.06	12.85	32.91	40.00	-7.09	QP	100 352
5		49.5067	15.62	14.16	29.78	40.00	-10.22	QP	200 192
6		199.9505	15.38	12.71	28.09	43.50	-15.41	QP	100 9

Remark:

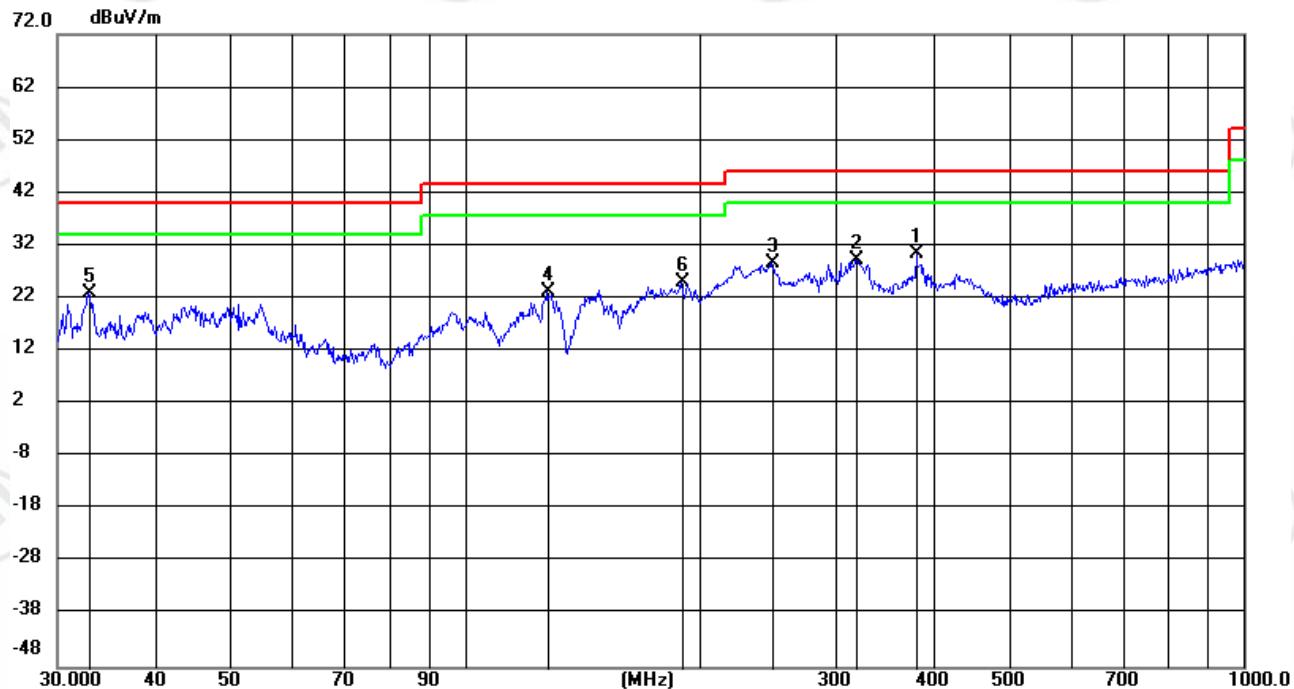
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode c):

Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	381.1150	12.10	18.29	30.39	46.00	-15.61	QP	100	103	
2		318.2585	12.28	17.03	29.31	46.00	-16.69	QP	100	60	
3		248.3341	13.89	14.62	28.51	46.00	-17.49	QP	200	295	
4		127.9782	12.79	10.43	23.22	43.50	-20.28	QP	100	92	
5		32.9271	9.85	13.06	22.91	40.00	-17.09	QP	100	7	
6		189.9382	12.59	12.39	24.98	43.50	-18.52	QP	200	295	

Remark:

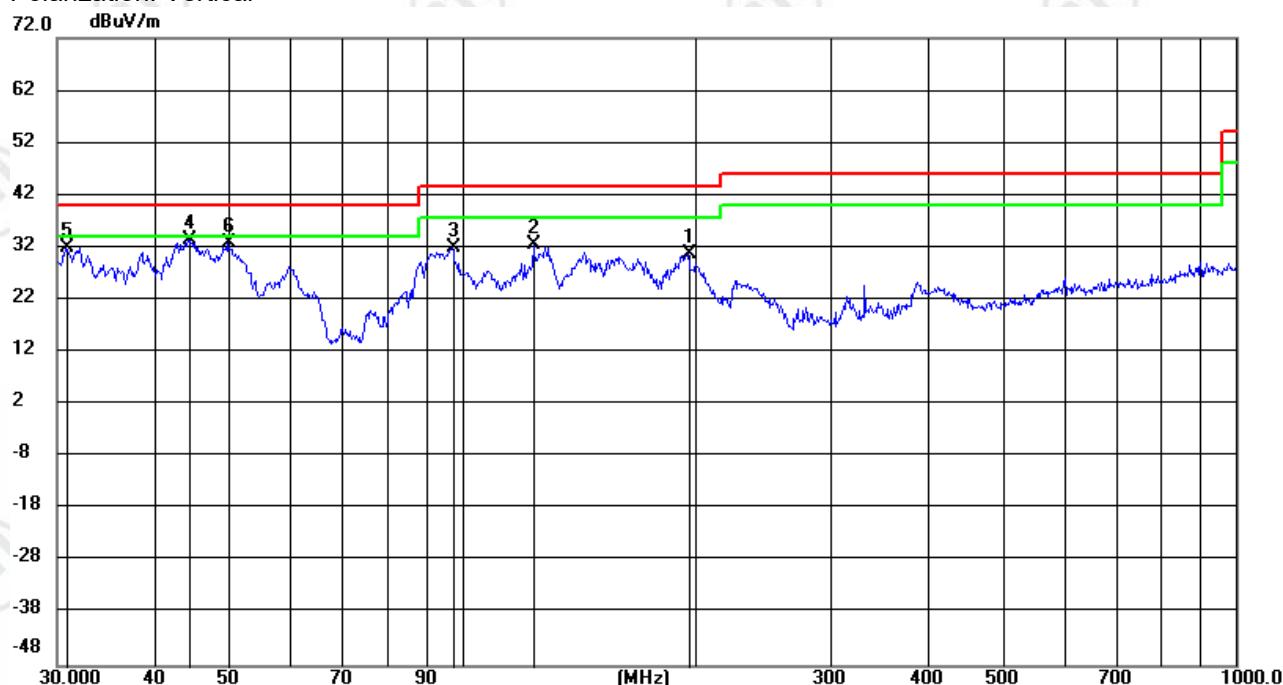
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode c):

Polarization: Vertical



No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	
1	196.4753	18.01	12.60	30.61	43.50	-12.89	QP	100	170
2	123.9155	21.50	11.14	32.64	43.50	-10.86	QP	200	170
3	97.4388	18.79	13.16	31.95	43.50	-11.55	QP	200	245
4 *	44.5711	19.52	14.07	33.59	40.00	-6.41	QP	100	289
5	30.7886	19.22	12.77	31.99	40.00	-8.01	QP	100	41
6	49.9339	18.54	14.17	32.71	40.00	-7.29	QP	100	310

Remark:

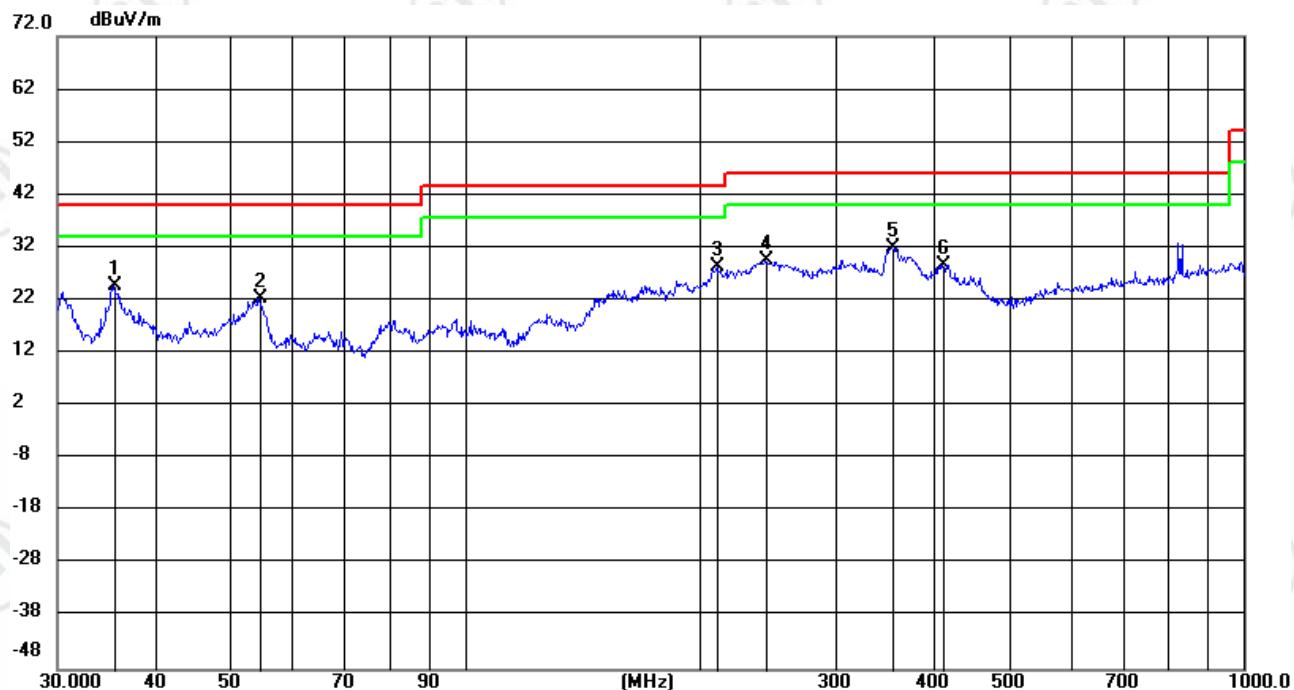
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode d):

Polarization: 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		35.4681	11.28	13.39	24.67	40.00	-15.33	QP	199	352
2		54.4706	8.68	13.77	22.45	40.00	-17.55	QP	100	219
3		211.1929	15.12	13.15	28.27	43.50	-15.23	QP	100	102
4		243.5052	15.14	14.44	29.58	46.00	-16.42	QP	100	282
5	*	353.3767	14.09	17.73	31.82	46.00	-14.18	QP	100	81
6		411.1026	9.70	18.91	28.61	46.00	-17.39	QP	100	240

Remark:

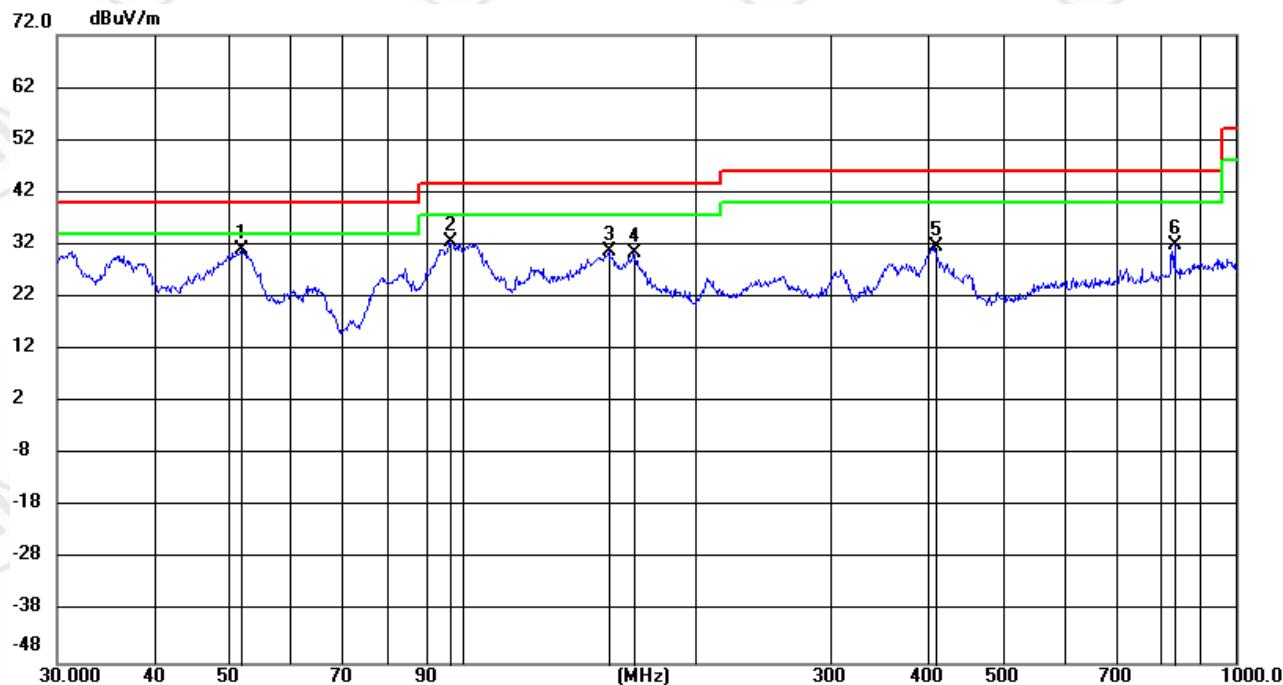
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode d):

Polarization: Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	Degree
			Level	Factor	ment					
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	51.9431	17.05	13.99	31.04	40.00	-8.96	QP	100	267
2		96.7240	19.53	13.06	32.59	43.50	-10.91	QP	100	64
3		155.0106	20.71	9.99	30.70	43.50	-12.80	QP	100	245
4		167.2075	19.08	11.32	30.40	43.50	-13.10	QP	100	256
5		410.1666	12.84	18.89	31.73	46.00	-14.27	QP	100	352
6		833.4632	5.52	26.36	31.88	46.00	-14.12	QP	100	32

Remark:

1. 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 - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor