



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: AKUVOX (XIAMEN) NETWORKS CO., LTD.

Address: 10/F, No.56, Software Park II , Xiamen, China

FCC ID: 2AHCR-E12X

Product Name: Door Phone

Model Number: E12S

**Standard(s): 47 CFR Part 15 Subpart B
ANSI C63.4-2014**

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21100012-00C

Date Of Issue: 2022-01-21

Reviewed By: Sun Zhong *Sun Zhong*

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)
No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Door Phone
EUT Model:	E12S
Highest Operation Frequency:	2480 MHz
Rated Input Voltage:	DC 12V from adapter or 48V from POE
Serial Number:	CR21100012-RF-S1
EUT Received Date:	2021.10.14
EUT Received Status:	Good

Accessory Information:
NO.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Typical Use Mode, which was provided by the manufacturer. Test Mode: M1:operating (adapter) M2:operating (POE)
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
GOSPELL DIGITAL TECHNOLOGY CO.,LTD	POE	G0720-480-050	2014-0002925
ORIENTAL HERO ELE.FTY	Adapter	OH-1015A1201000U3-UL	96DG E230964
Unknown	Load	Unknown	Load1
Unknown	Load	Unknown	Load2
TOTOLINK	Wireless Router	LR1200	LR1200155P00167

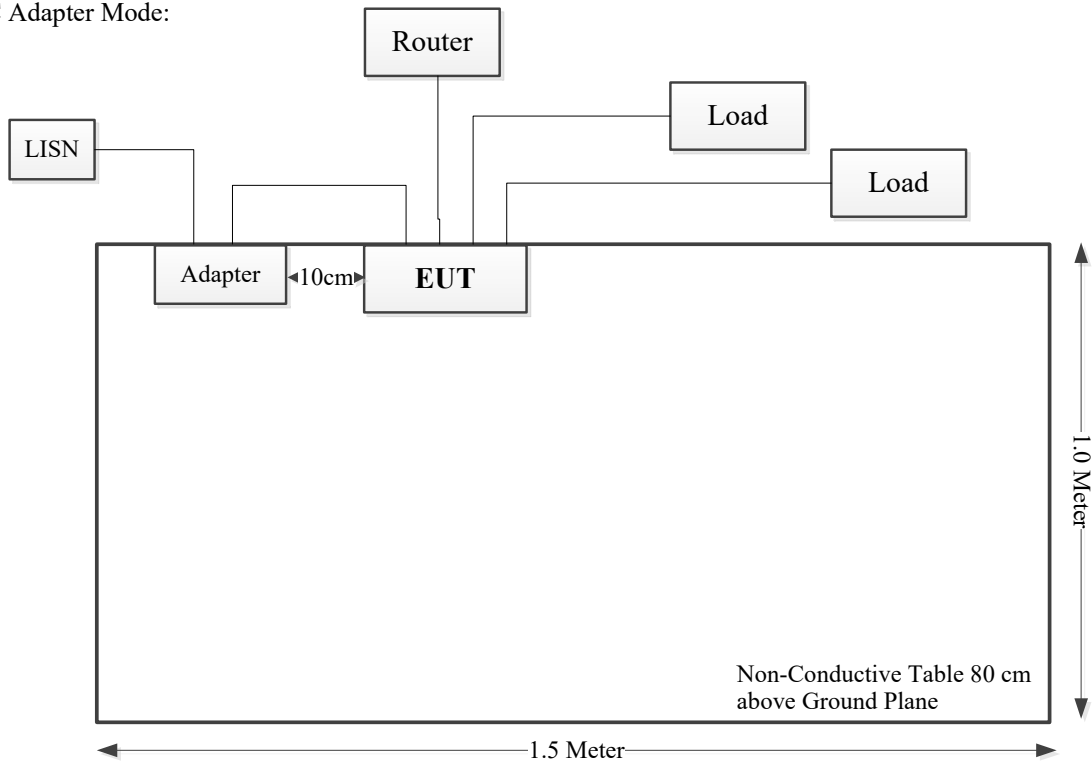
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	No	Yes	3	POE	Router
RJ45 Cable	No	No	1	EUT	POE
RJ45 Cable	No	Yes	3	EUT	Router
Power Cable	No	No	1.2	EUT	Adapter
Power Cable	No	No	1.2	POE	LISN
Cable	No	No	3	EUT	Load
Cable	No	No	3	EUT	Load

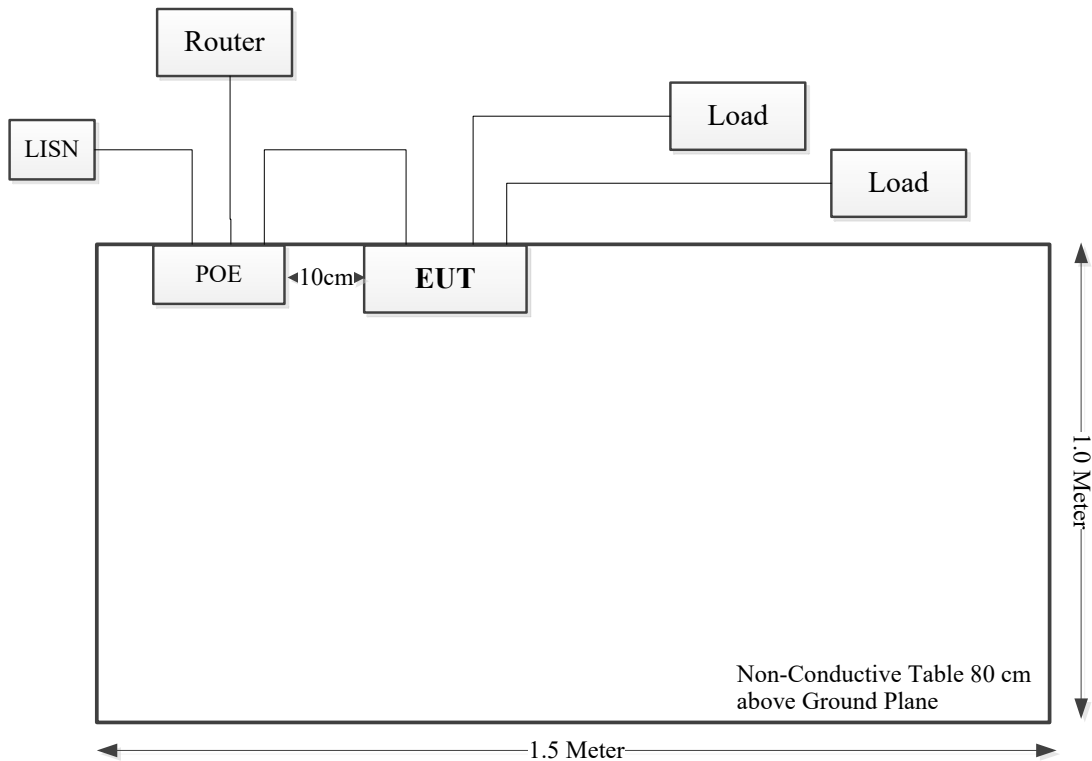
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:

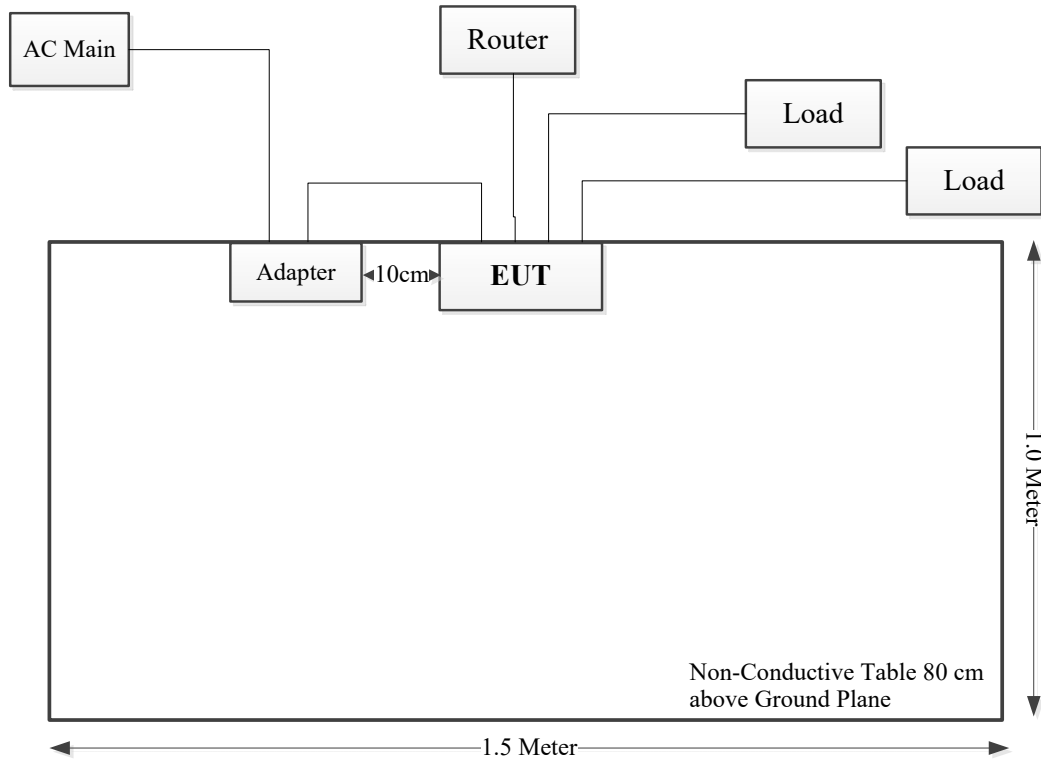
AC/DC Adapter Mode:



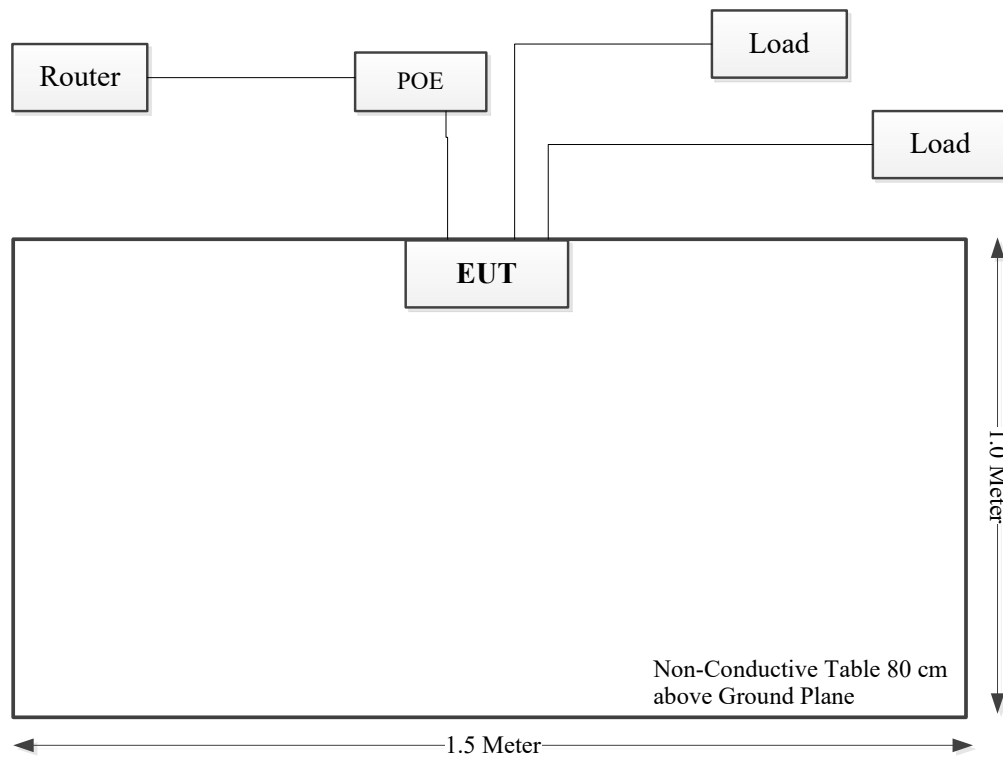
POE Adapter Mode:



Radiated emissions:
AC/DC Adapter Mode:



POE Adapter Mode:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

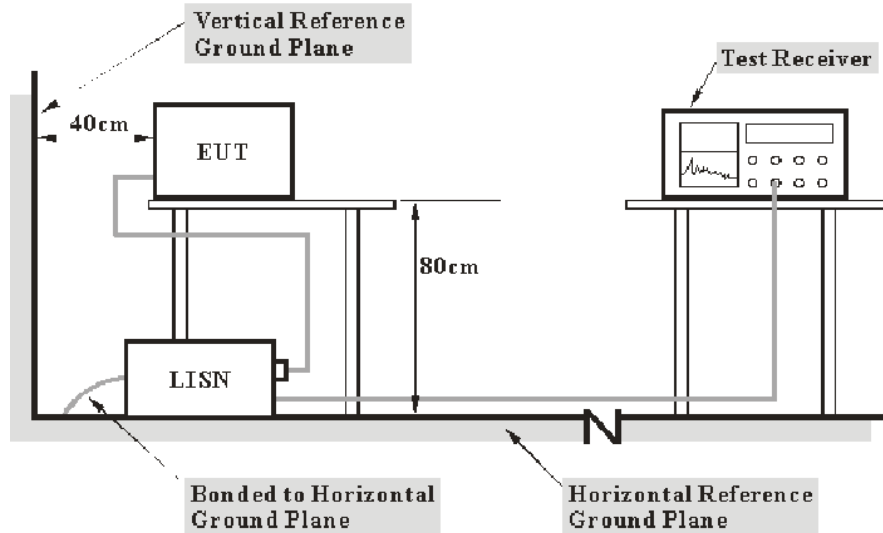
2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
§15.107	Conducted emissions	Compliant
§15.109	Radiated emissions	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.2 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.3 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT, the report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

All data was recorded in the Quasi-peak and average detection mode.

The report shall list the six emissions with the smallest margin relative to the limit, unless the margin is greater than 20 dB.

3.1.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

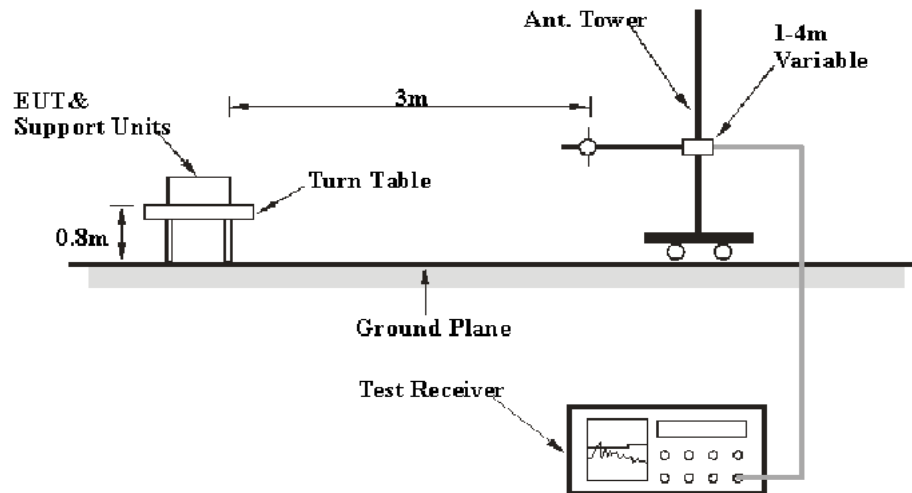
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

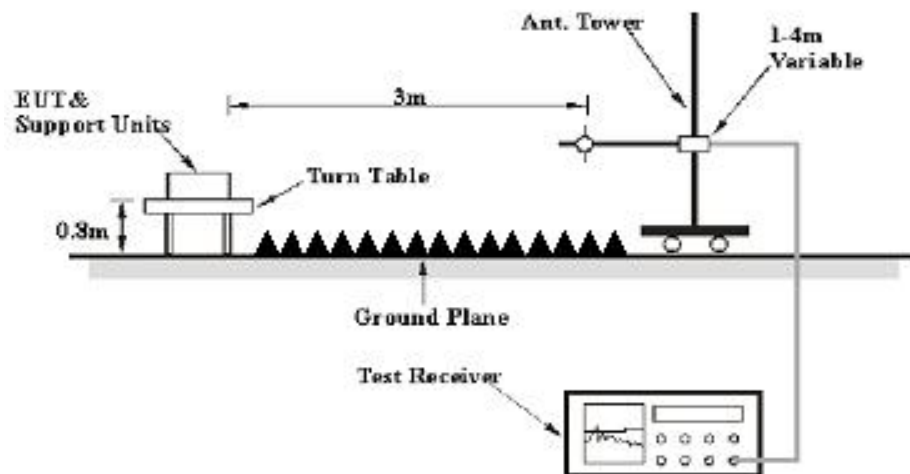
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was with the FCC Part 15 B Class B limits.

3.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced video bandwidth	/	AVG

If the maximized peak measured value complies with under the limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.3 Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR21100012-RF-S1	Test Date:	2021-12-09
Test Site:	CE	Test Mode:	Operating
Tester:	Nick Tang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.8	Relative Humidity: (%)	65	ATM Pressure: (kPa)	101.8
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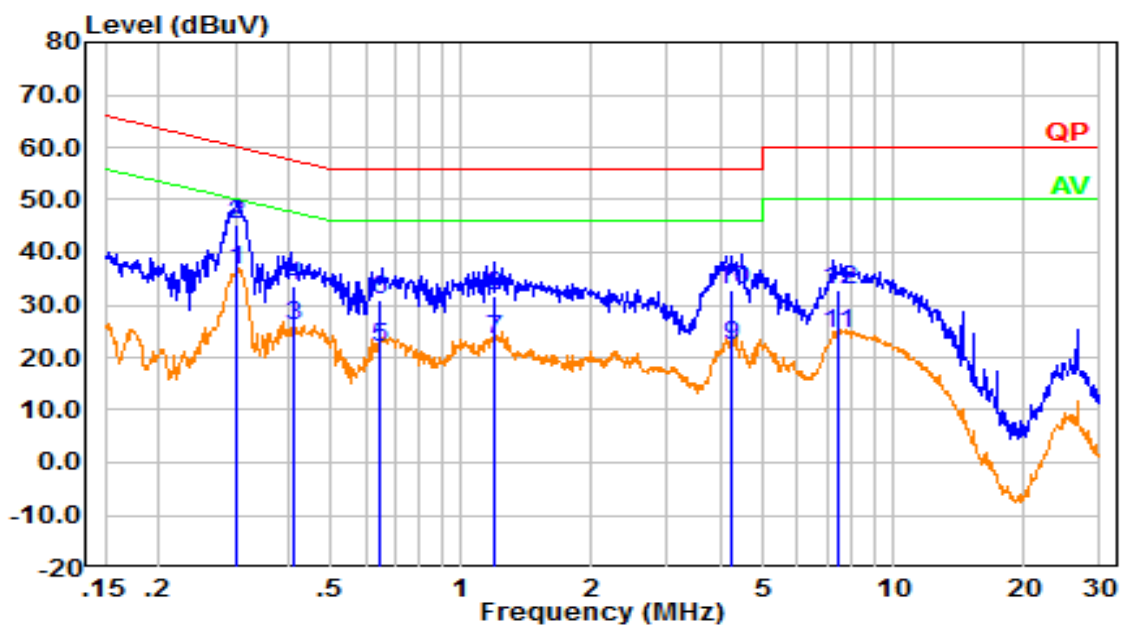
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2021-04-25	2022-04-24
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

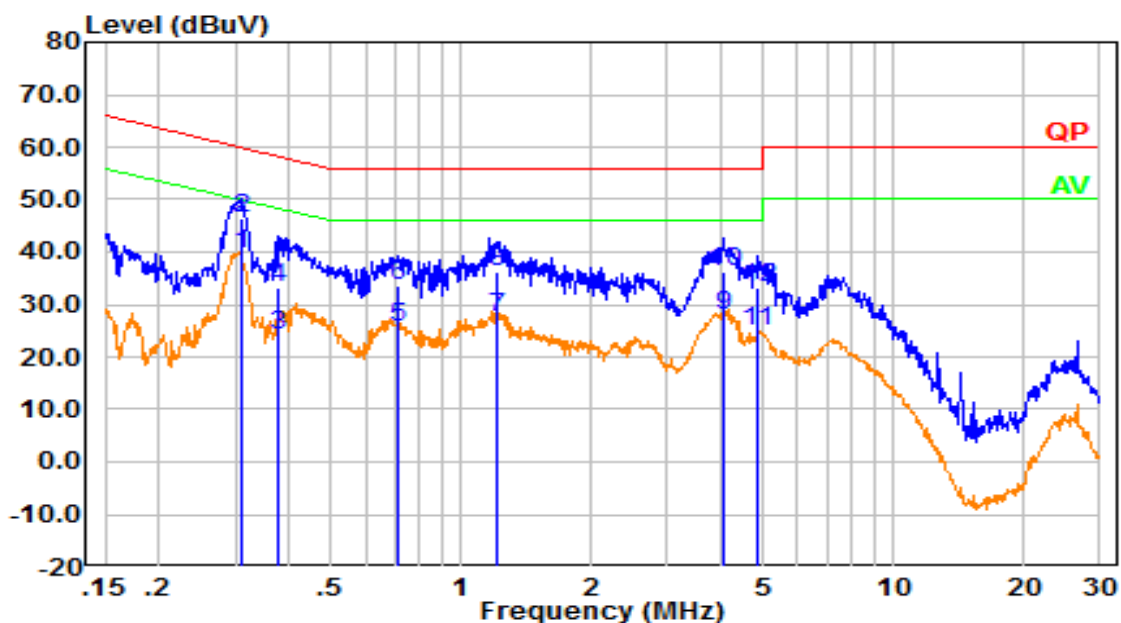
AC/DC Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.303	26.90	9.61	36.51	50.17	13.66	Average
2	0.303	35.84	9.61	45.45	60.17	14.72	QP
3	0.408	16.54	9.61	26.15	47.69	21.54	Average
4	0.408	24.12	9.61	33.73	57.69	23.96	QP
5	0.651	12.33	9.62	21.95	46.00	24.05	Average
6	0.651	21.14	9.62	30.76	56.00	25.24	QP
7	1.190	13.76	9.62	23.38	46.00	22.62	Average
8	1.190	22.03	9.62	31.65	56.00	24.35	QP
9	4.199	12.64	9.65	22.29	46.00	23.71	Average
10	4.199	23.36	9.65	33.01	56.00	22.99	QP
11	7.430	14.87	9.66	24.53	50.00	25.47	Average
12	7.430	23.09	9.66	32.76	60.00	27.24	QP

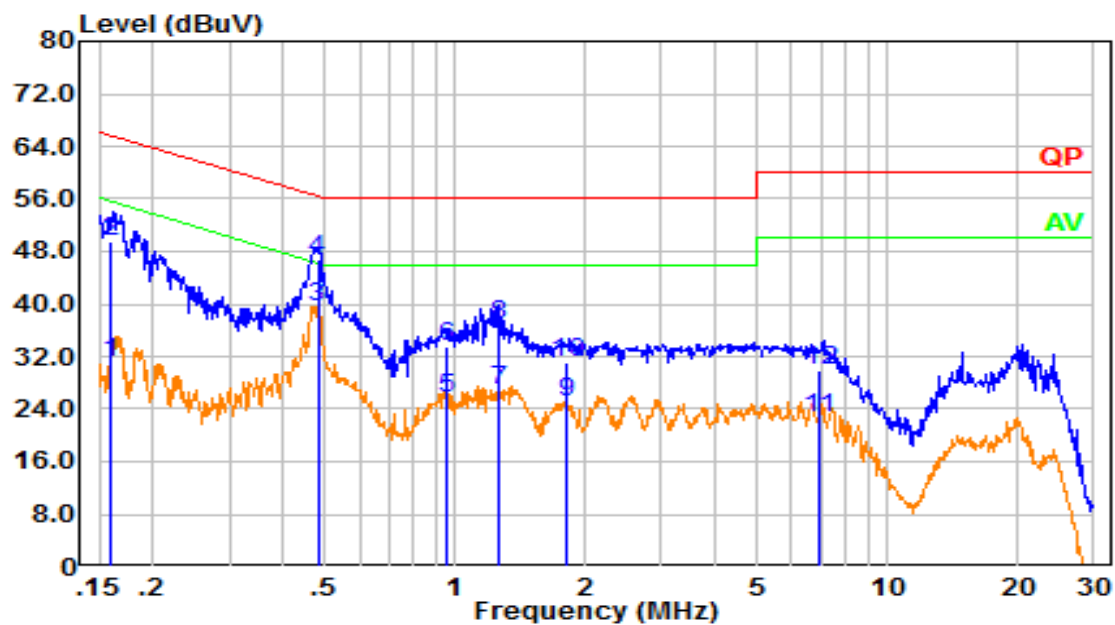
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.310	29.87	9.61	39.48	49.97	10.49	Average
2	0.310	36.93	9.61	46.54	59.97	13.43	QP
3	0.377	14.51	9.61	24.12	48.35	24.23	Average
4	0.377	23.50	9.61	33.11	58.35	25.24	QP
5	0.710	16.12	9.62	25.74	46.00	20.26	Average
6	0.710	24.08	9.62	33.70	56.00	22.30	QP
7	1.204	17.78	9.62	27.40	46.00	18.60	Average
8	1.204	26.49	9.62	36.11	56.00	19.89	QP
9	4.066	18.39	9.65	28.04	46.00	17.96	Average
10	4.066	26.76	9.65	36.41	56.00	19.59	QP
11	4.840	15.38	9.66	25.04	46.00	20.96	Average
12	4.840	23.69	9.66	33.35	56.00	22.65	QP

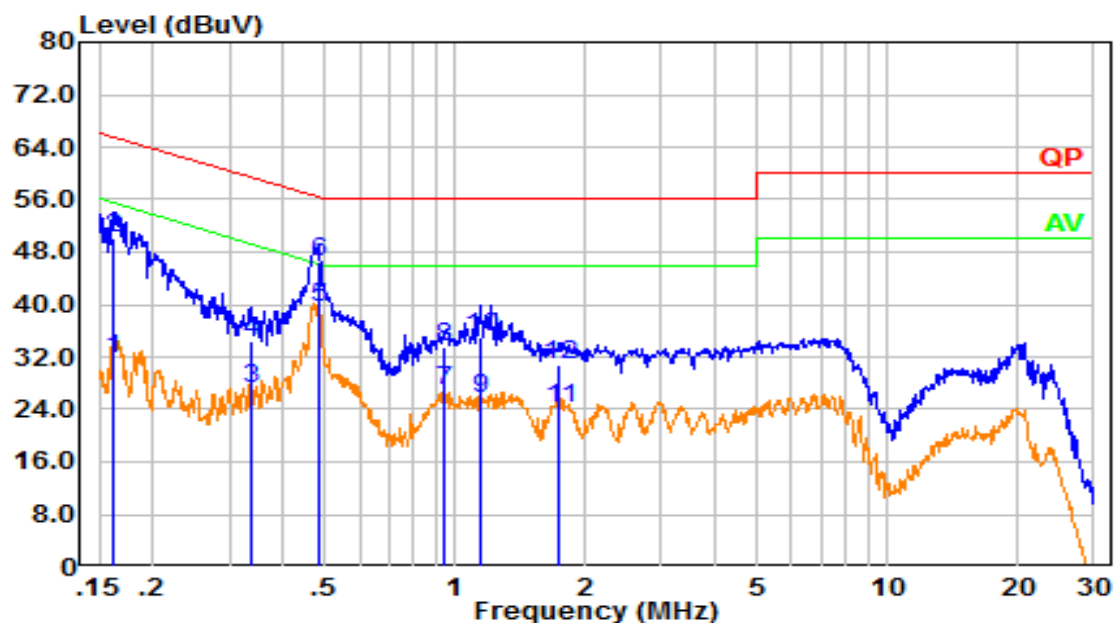
POE Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.160	21.56	9.61	31.17	55.49	24.32	Average
2	0.160	39.85	9.61	49.46	65.49	16.03	QP
3	0.481	29.98	9.61	39.59	46.33	6.74	Average
4	0.481	37.15	9.61	46.76	56.33	9.57	QP
5	0.953	16.11	9.62	25.73	46.00	20.27	Average
6	0.953	23.76	9.62	33.38	56.00	22.62	QP
7	1.253	17.10	9.62	26.72	46.00	19.28	Average
8	1.253	27.07	9.62	36.69	56.00	19.31	QP
9	1.806	15.40	9.63	25.03	46.00	20.97	Average
10	1.806	21.43	9.63	31.06	56.00	24.94	QP
11	6.953	13.06	9.66	22.72	50.00	27.28	Average
12	6.953	20.14	9.66	29.80	60.00	30.20	QP

Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.162	22.03	9.61	31.64	55.38	23.74	Average
2	0.162	40.64	9.61	50.25	65.38	15.13	QP
3	0.337	17.50	9.61	27.11	49.27	22.16	Average
4	0.337	24.95	9.61	34.56	59.27	24.71	QP
5	0.481	29.86	9.61	39.47	46.32	6.85	Average
6	0.481	36.84	9.61	46.45	56.32	9.87	QP
7	0.940	17.38	9.62	27.00	46.00	19.00	Average
8	0.940	23.77	9.62	33.39	56.00	22.61	QP
9	1.144	16.10	9.62	25.72	46.00	20.28	Average
10	1.144	25.35	9.62	34.97	56.00	21.03	QP
11	1.747	14.53	9.63	24.16	46.00	21.84	Average
12	1.747	21.14	9.63	30.77	56.00	25.23	QP

4.2 Radiation Spurious Emissions

Serial Number:	CR21100012-RF-S1	Test Date:	2021-12-09~2021-12-14
Test Site:	966-1, 966-2	Test Mode:	Operating
Tester:	Great Qiao, Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	20.2~21.9	Relative Humidity: (%)	43~55	ATM Pressure: (kPa)	101.5~101.8
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Test Equipment List and Details:

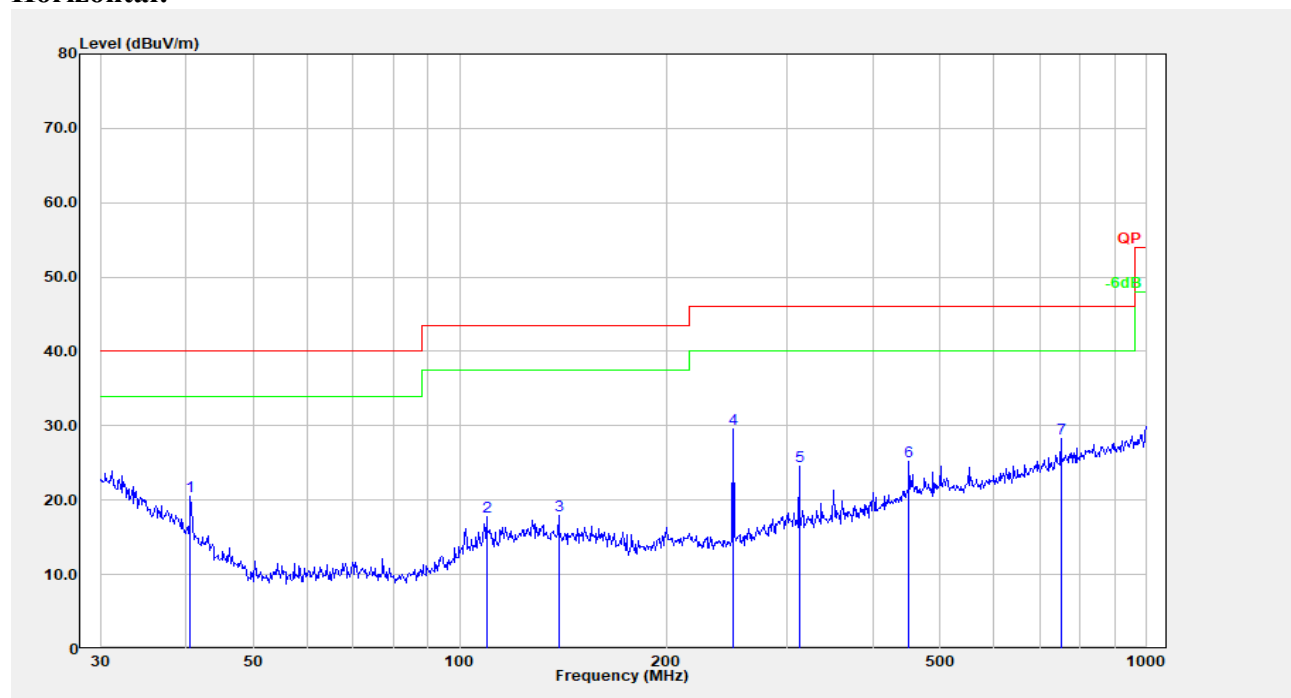
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
Audix	Test Software	E3	201021 (V9)	N/A	N/A
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2021-08-08	2022-08-07

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

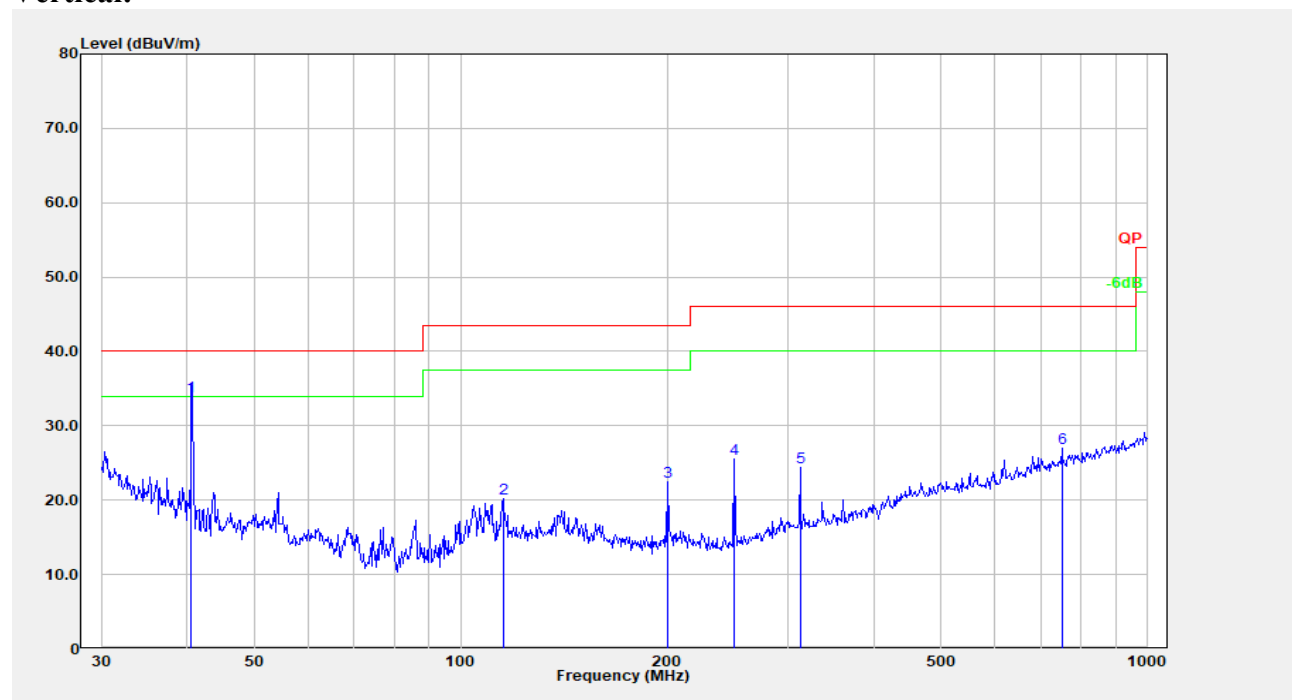
1) 30MHz-1GHz:

AC/DC Adapter Mode:

Horizontal:

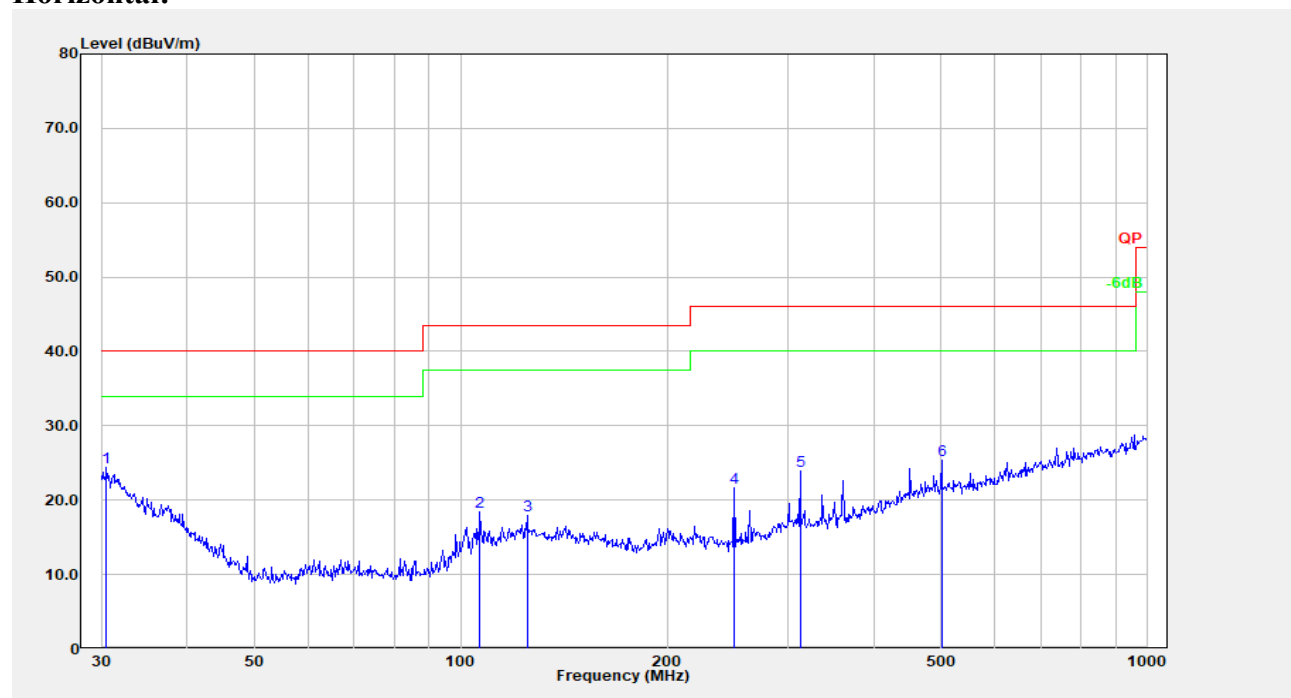


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	40.559	32.30	-11.86	20.45	40.00	19.55	Peak
2	109.412	30.42	-12.68	17.74	43.50	25.76	Peak
3	139.361	29.97	-12.09	17.88	43.50	25.62	Peak
4	250.301	42.90	-13.25	29.65	46.00	16.35	Peak
5	312.179	35.43	-10.81	24.62	46.00	21.38	Peak
6	451.135	32.34	-7.13	25.20	46.00	20.80	Peak
7	750.108	31.59	-3.24	28.35	46.00	17.65	Peak

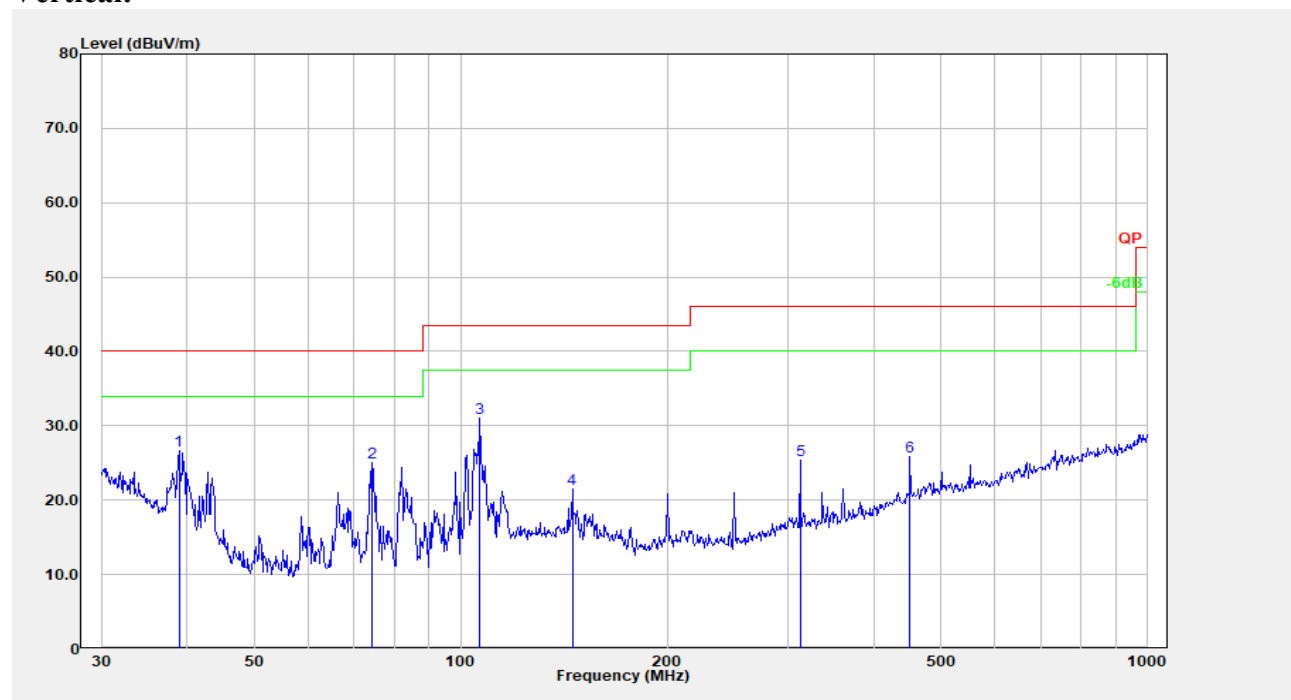
Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	40.559	45.86	-11.86	34.00	40.00	6.00	QP
2	115.321	32.42	-12.14	20.28	43.50	23.22	Peak
3	199.986	34.80	-12.37	22.43	43.50	21.07	Peak
4	250.301	38.83	-13.25	25.58	46.00	20.42	Peak
5	312.179	35.29	-10.81	24.48	46.00	21.52	Peak
6	750.108	30.20	-3.24	26.96	46.00	19.04	Peak

POE Adapter Mode:

Horizontal:

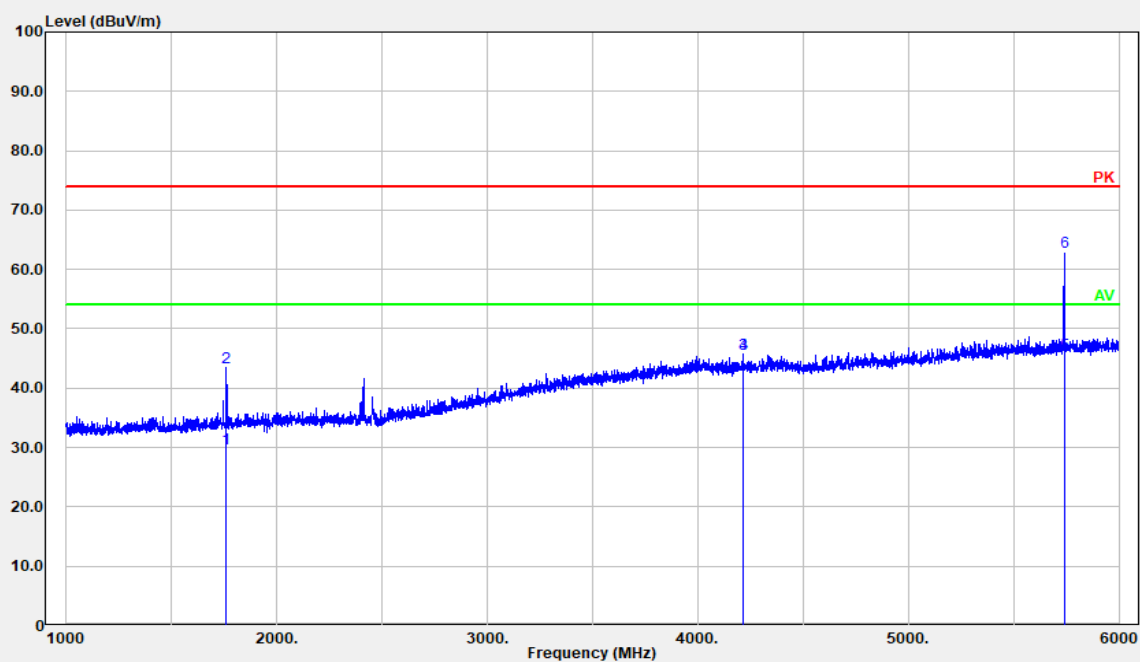
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	28.57	-4.20	24.37	40.00	15.63	Peak
2	106.759	31.61	-13.22	18.39	43.50	25.11	Peak
3	125.007	29.45	-11.54	17.91	43.50	25.59	Peak
4	250.301	34.83	-13.25	21.58	46.00	24.42	Peak
5	312.179	34.80	-10.81	23.99	46.00	22.01	Peak
6	501.179	31.59	-6.22	25.38	46.00	20.62	Peak

Vertical:

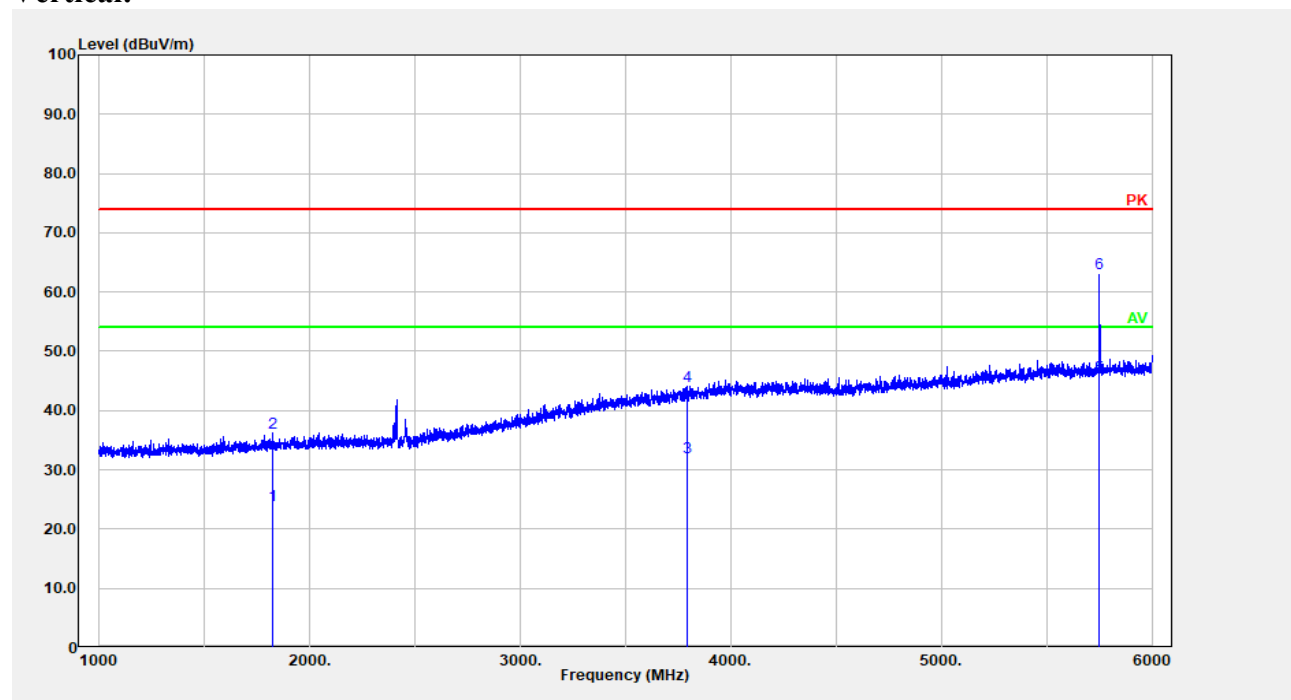
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	38.888	37.24	-10.63	26.61	40.00	13.39	Peak
2	74.396	42.25	-17.16	25.10	40.00	14.90	Peak
3	106.759	44.32	-13.22	31.09	43.50	12.41	Peak
4	145.351	33.77	-12.20	21.56	43.50	21.94	Peak
5	312.179	36.25	-10.81	25.44	46.00	20.56	Peak
6	451.135	33.01	-7.13	25.88	46.00	20.12	Peak

2) Above 1GHz

AC/DC Adapter Mode:

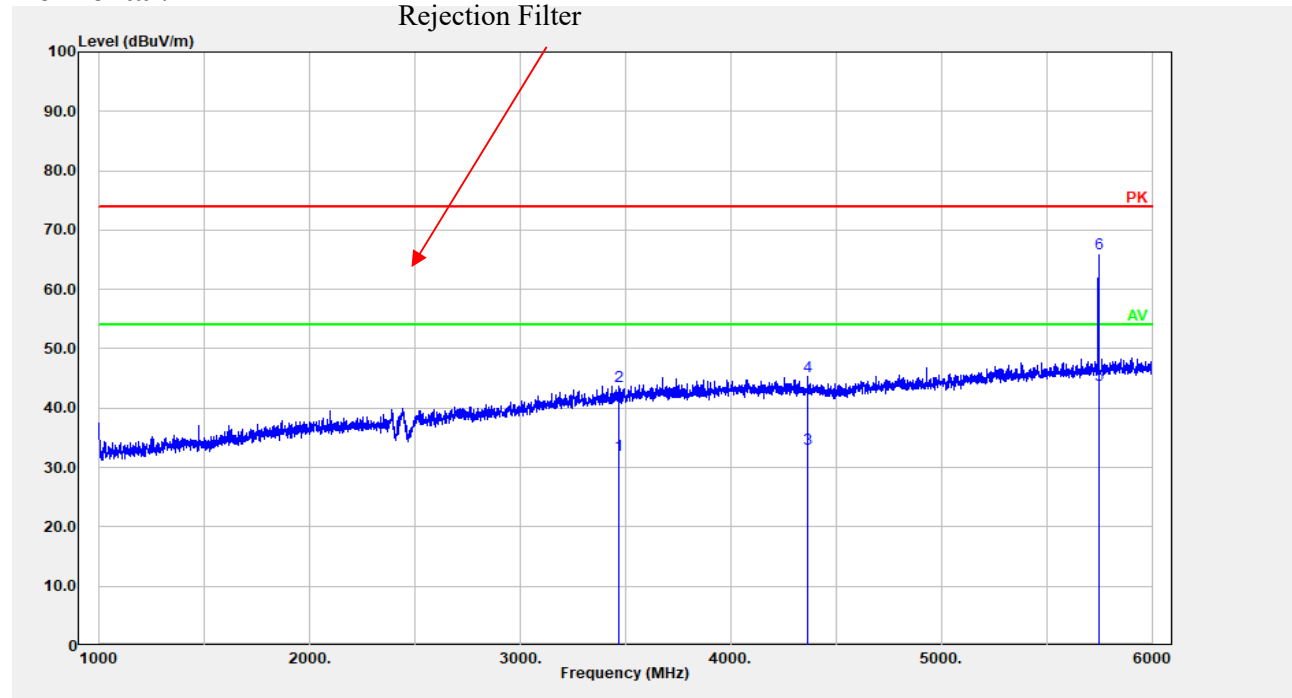
Horizontal:

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	1757.151	28.57	1.16	29.73	54.00	24.27	Average
2	1757.151	42.41	1.16	43.57	74.00	30.43	Peak
3	4214.643	35.91	9.76	45.67	74.00	28.33	Peak
4	4214.643	35.91	9.76	45.67	74.00	28.33	Peak
5	5743.949	32.79	12.96	45.75	54.00	8.25	Average
6	5743.949	50.04	12.96	63.00	74.00	11.00	Peak

Vertical:

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	1820.164	22.37	1.60	23.97	54.00	30.03	Average
2	1820.164	34.54	1.60	36.14	74.00	37.86	Peak
3	3789.558	22.58	9.41	31.99	54.00	22.01	Average
4	3789.558	34.76	9.41	44.17	74.00	29.83	Peak
5	5748.950	32.74	12.95	45.69	54.00	8.31	Average
6	5748.950	50.27	12.95	63.22	74.00	10.78	Peak

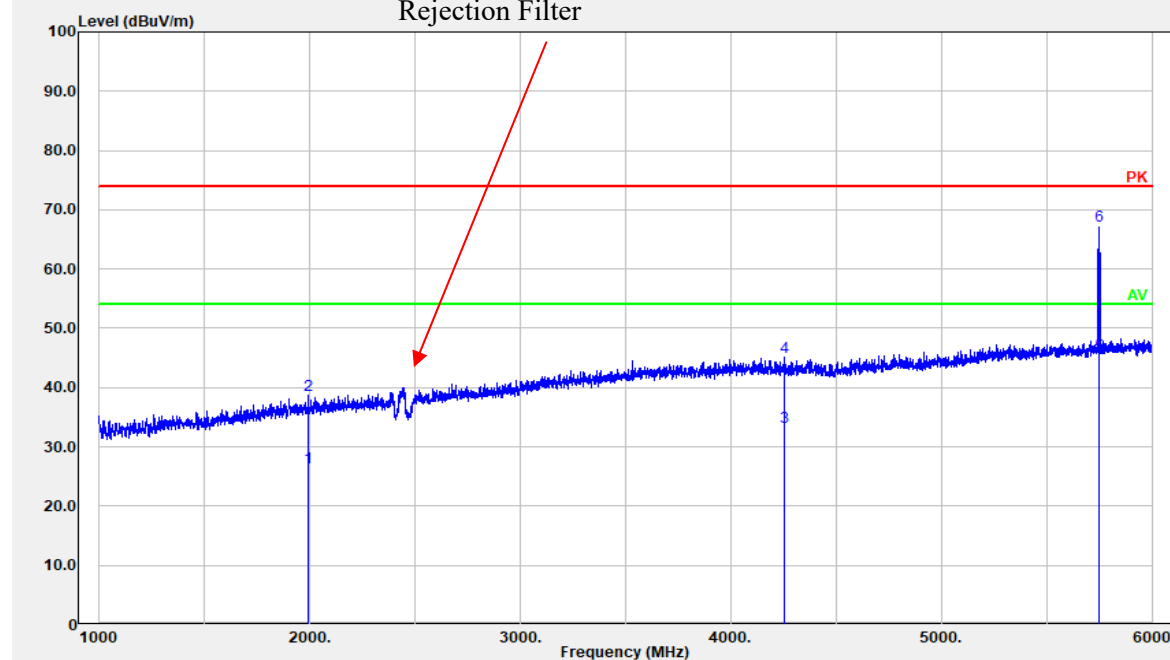
POE Adapter Mode:

Horizontal:Fundamental
Test with Band
Rejection Filter

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	3468.494	23.59	8.51	32.10	54.00	21.90	Average
2	3468.494	35.24	8.51	43.75	74.00	30.25	Peak
3	4367.673	23.41	9.76	33.17	54.00	20.83	Average
4	4367.673	35.67	9.76	45.44	74.00	28.56	Peak
5	5748.950	31.04	12.95	43.99	54.00	10.01	Average
6	5748.950	53.04	12.95	65.99	74.00	8.01	Peak

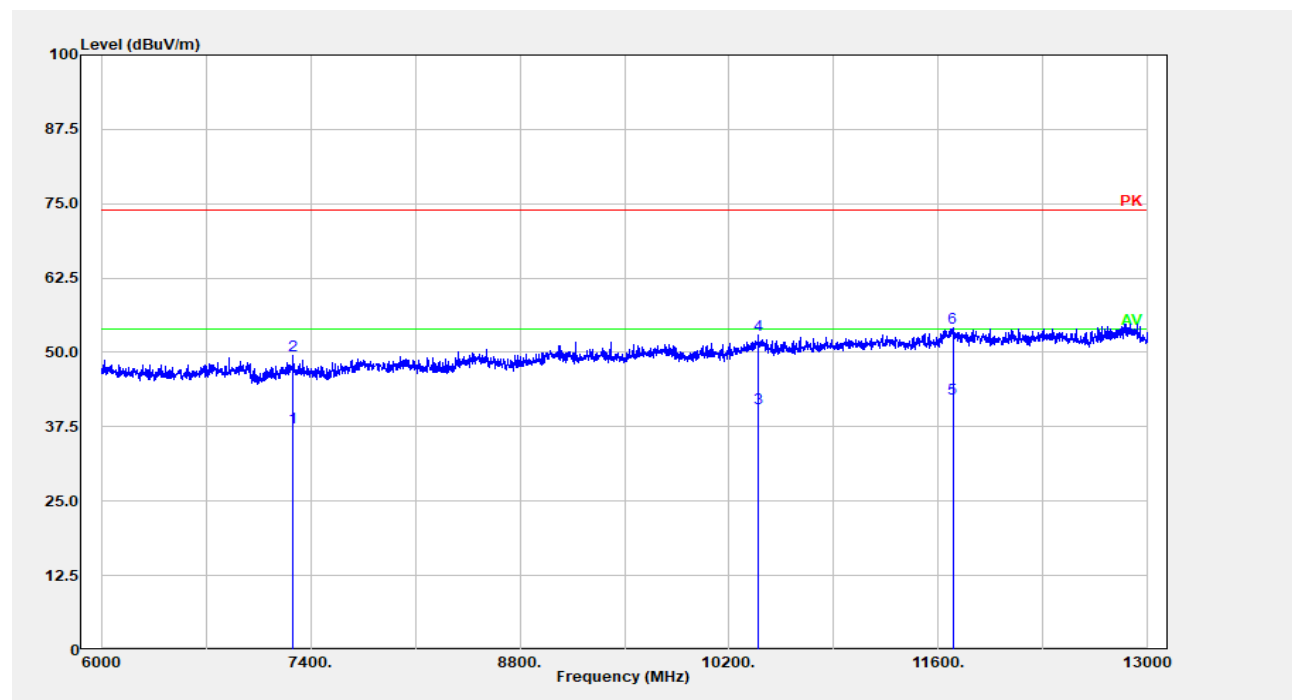
Vertical:

Fundamental
Test with Band
Rejection Filter

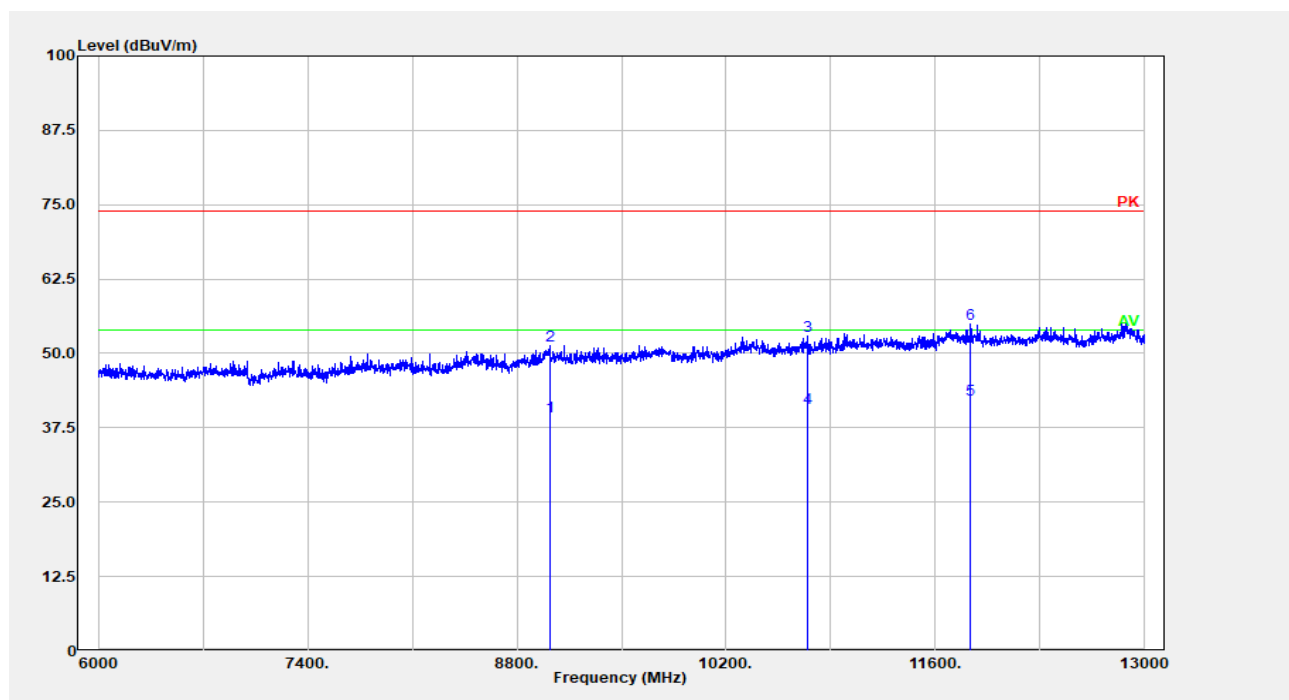


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	1993.199	24.19	2.34	26.53	54.00	27.47	Average
2	1993.199	36.33	2.34	38.67	74.00	35.33	Peak
3	4255.651	23.56	9.73	33.29	54.00	20.71	Average
4	4255.651	35.33	9.73	45.06	74.00	28.94	Peak
5	5748.950	32.61	12.95	45.56	54.00	8.44	Average
6	5748.950	54.40	12.95	67.36	74.00	6.64	Peak

AC/DC Adapter Mode:

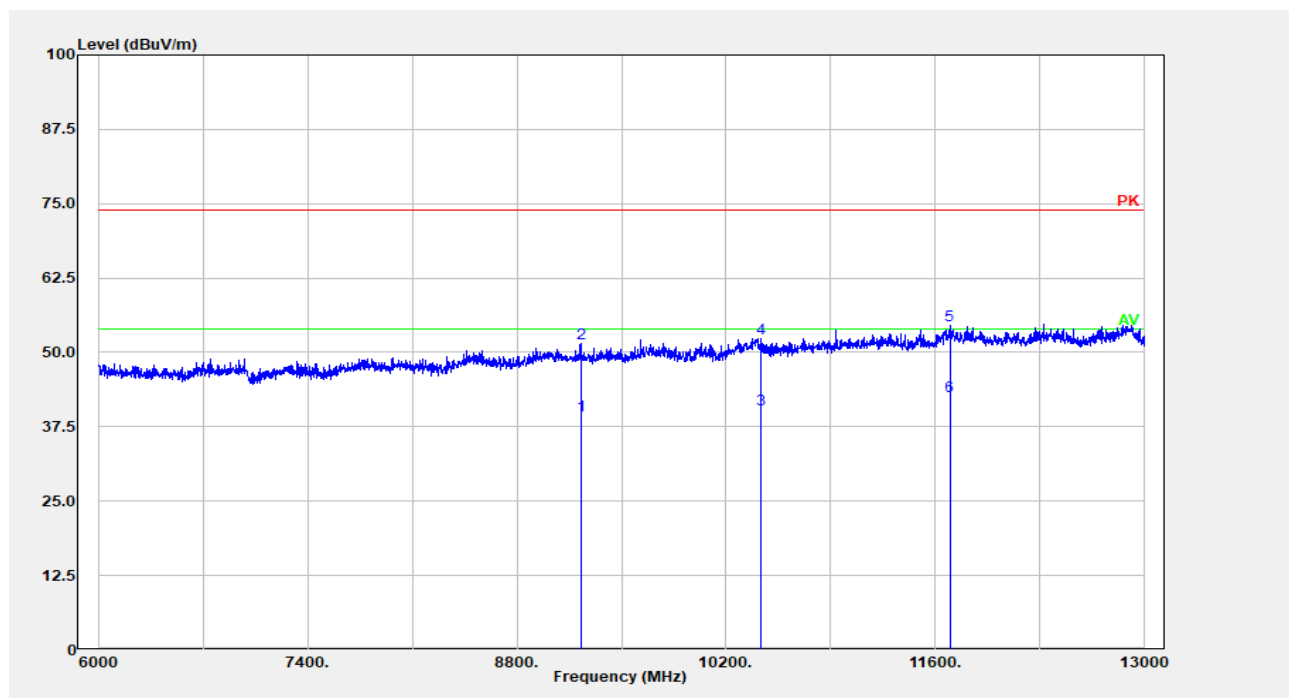
Horizontal:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7279.456	23.15	14.24	37.39	54.00	16.61	Average
2	7279.456	35.25	14.24	49.49	74.00	24.51	Peak
3	10397.680	22.20	18.47	40.67	54.00	13.33	Average
4	10397.680	34.36	18.47	52.83	74.00	21.17	Peak
5	11696.340	21.65	20.54	42.19	54.00	11.81	Average
6	11696.340	33.54	20.54	54.08	74.00	19.92	Peak

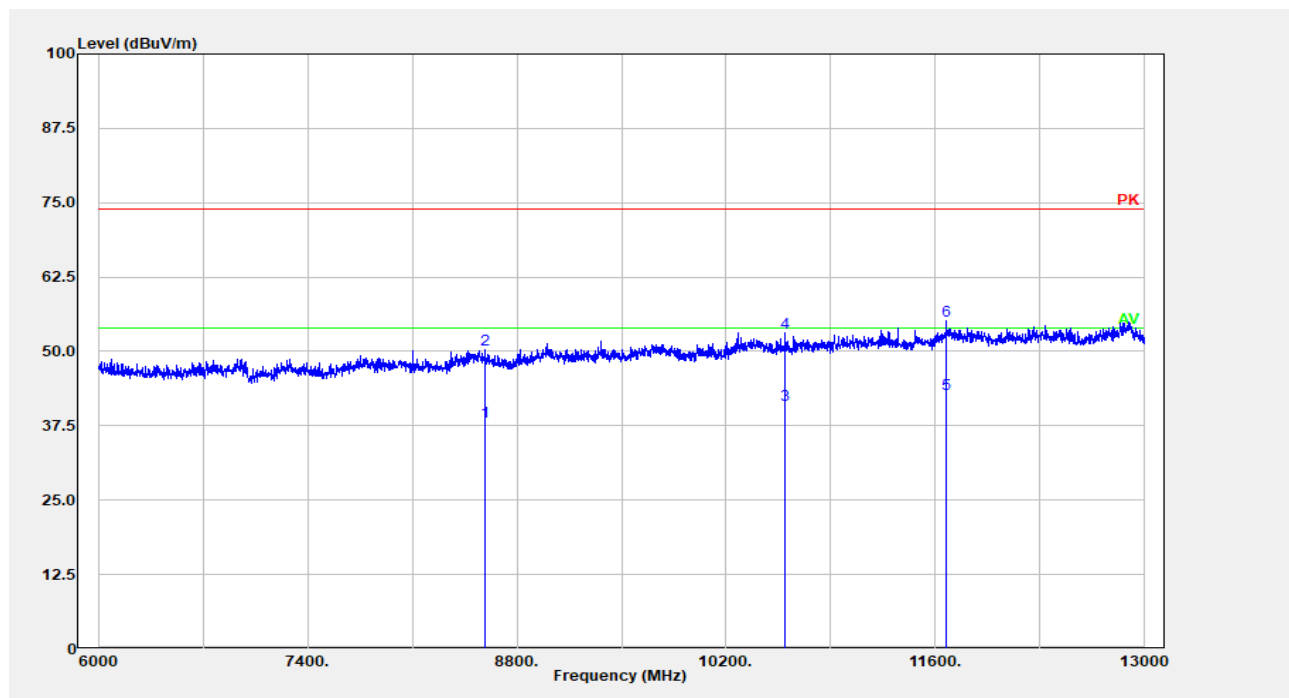
Vertical:

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	9022.204	22.19	17.15	39.34	54.00	14.66	Average
2	9022.204	34.20	17.15	51.35	74.00	22.65	Peak
3	10748.150	34.14	18.84	52.98	74.00	21.02	Peak
4	10748.150	22.07	18.84	40.91	54.00	13.09	Average
5	11837.970	22.09	20.18	42.27	54.00	11.73	Average
6	11837.970	34.79	20.18	54.97	74.00	19.03	Peak

POE Adapter:

Horizontal:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	9226.245	22.12	17.30	39.42	54.00	14.58	Average
2	9226.245	34.20	17.30	51.49	74.00	22.51	Peak
3	10428.890	22.13	18.36	40.49	54.00	13.51	Average
4	10428.890	34.06	18.36	52.42	74.00	21.58	Peak
5	11696.340	34.00	20.54	54.54	74.00	19.46	Peak
6	11696.340	22.09	20.54	42.63	54.00	11.37	Average

Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	8585.317	21.51	16.72	38.23	54.00	15.77	Average
2	8585.317	33.63	16.72	50.35	74.00	23.65	Peak
3	10596.920	22.50	18.47	40.97	54.00	13.03	Average
4	10596.920	34.71	18.47	53.18	74.00	20.82	Peak
5	11672.330	22.48	20.28	42.76	54.00	11.24	Average
6	11672.330	34.90	20.28	55.18	74.00	18.82	Peak

===== END OF REPORT =====