



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-E16SV1

Product Name: Door Phone/Access Control Terminal

Model Number: E16S, A05S

**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: CR21110094-00B

Date Of Issue: 2022-03-24

Reviewed By: Sun Zhong *Sun Zhong*

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)
No. 113, Pingkang Road, Dalang Town, Dongguan,
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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/Access Control Terminal
EUT Model:	E16S
Multiple Model:	A05S
Highest Operation Frequency:	Below 108 MHz
Rated Input Voltage:	DC 12V from adapter or 48V from POE
Serial Number:	CR21110094-S1(E16S) CR21110094-S2(A05S)
EUT Received Date:	2021.11.29
EUT Received Status:	GOOD
Note: The Multiple models are electrically identical with Test model, please refer to the declaration letter for more detail, which was provided by manufacturer.	

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: operating
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

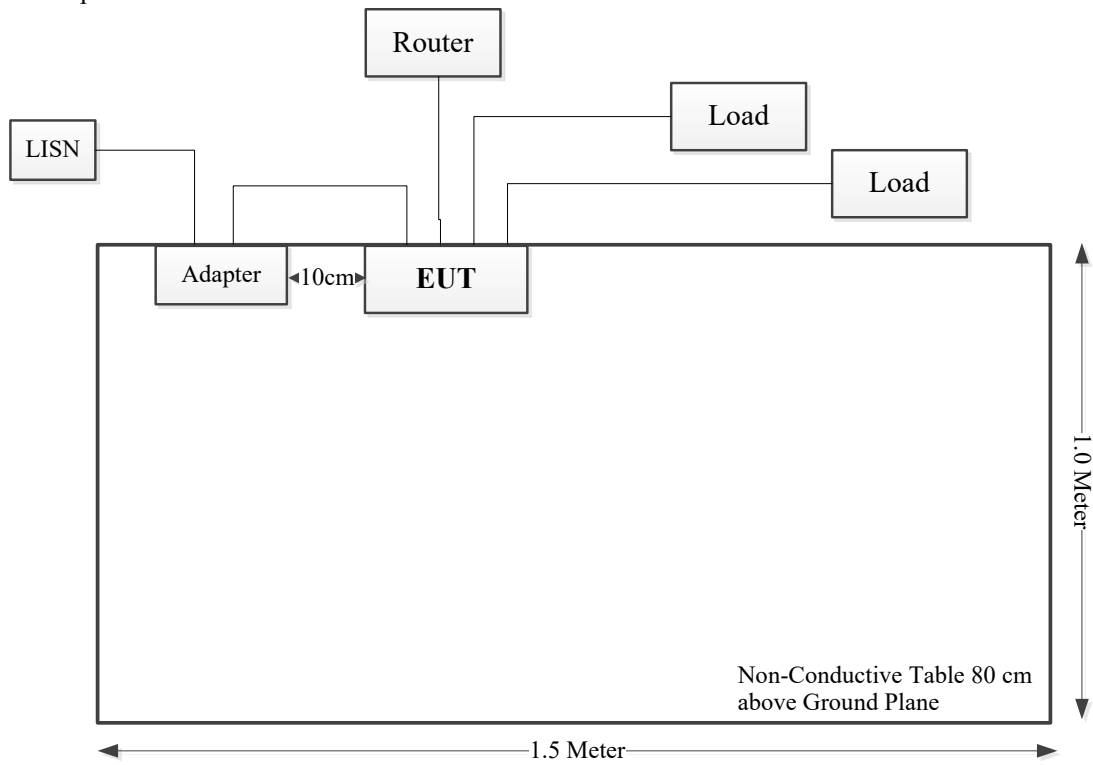
1.2.3 Support Cable List and Details

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

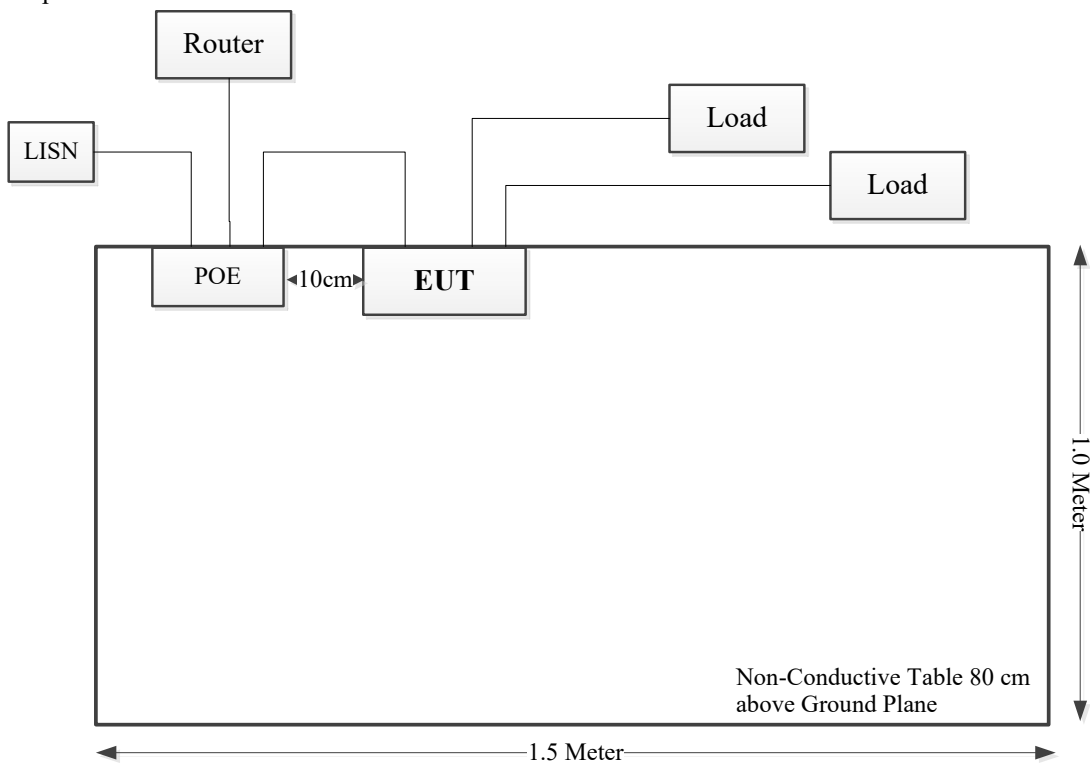
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:

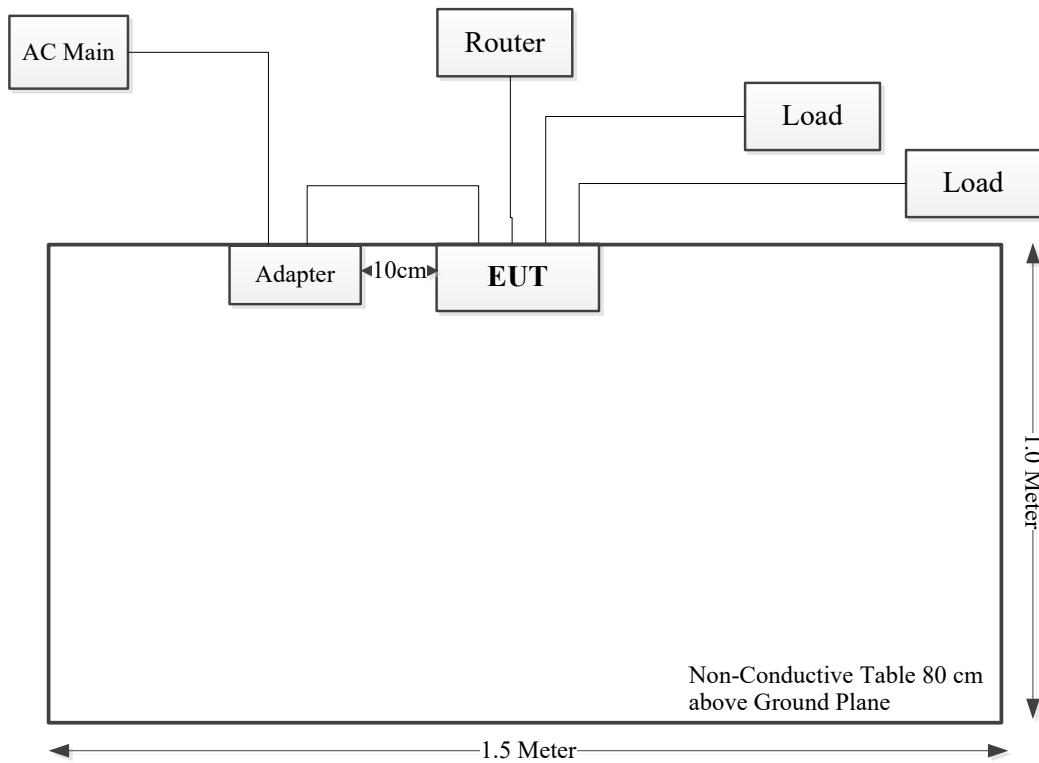
AC/DC Adapter Mode:



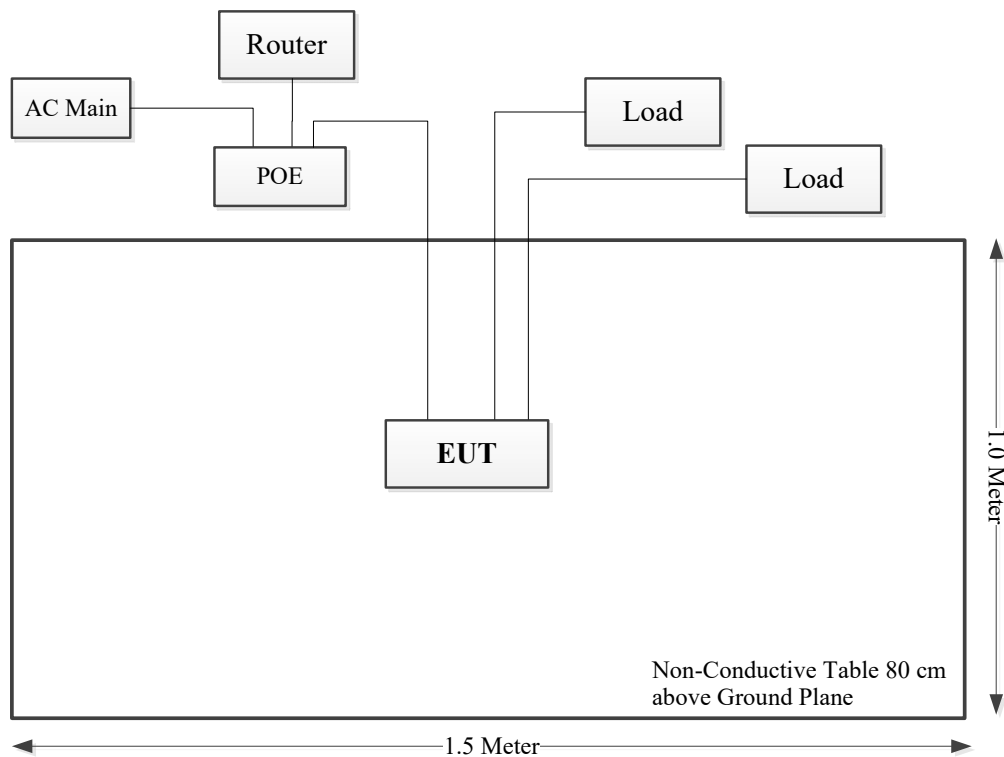
POE Adapter Mode:



Radiated Emission:
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)

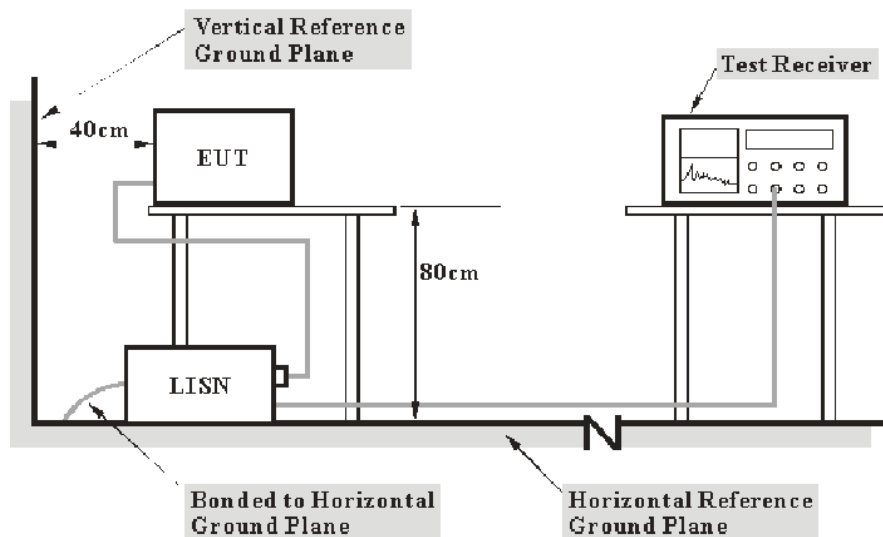
2. SUMMARY OF TEST RESULTS

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 or EUT 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

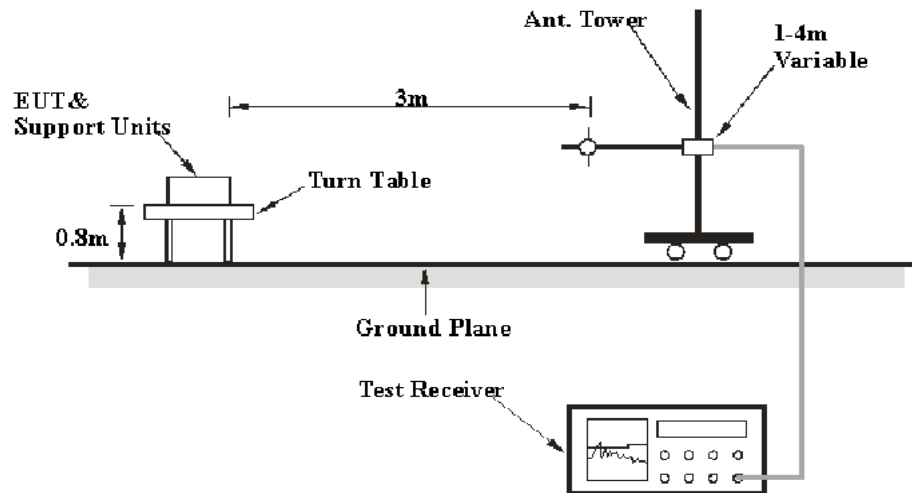
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



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 1 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

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

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:	CR21110094-S1(E16S) CR21110094-S2(A05S)	Test Date:	2021-12-17~2022-03-24
Test Site:	CE	Test Mode:	operating
Tester:	Nick Tang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	21.5~23.1	Relative Humidity: (%)	61~70	ATM Pressure: (kPa)	101~101.2

Test Equipment List and Details:

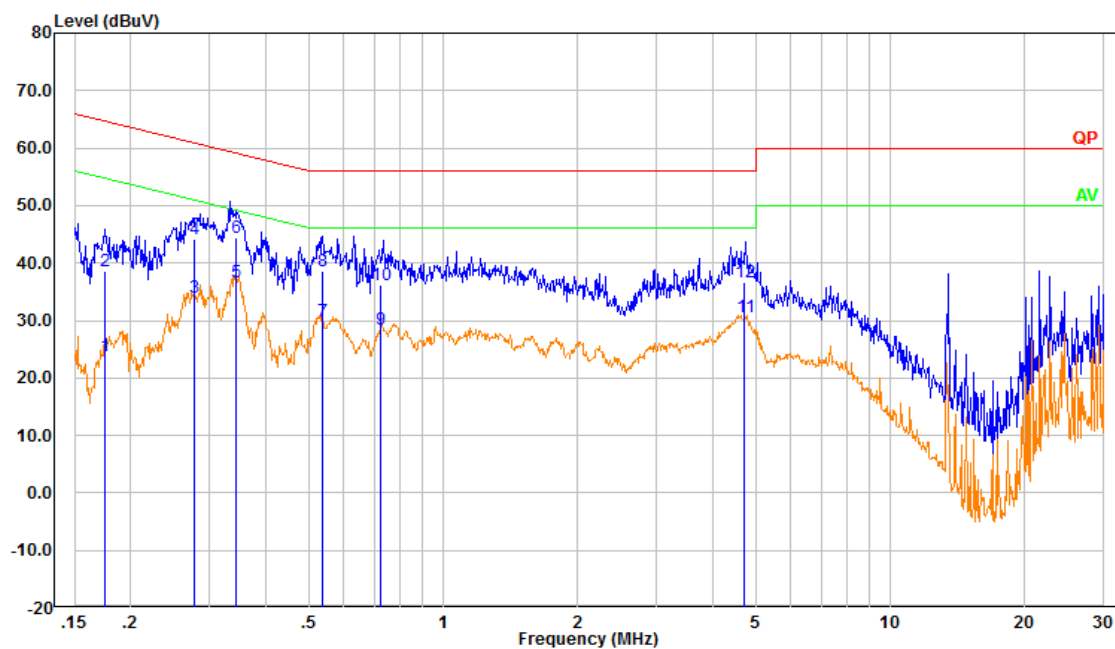
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2021-04-25	2022-04-24
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* 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).

E16S:

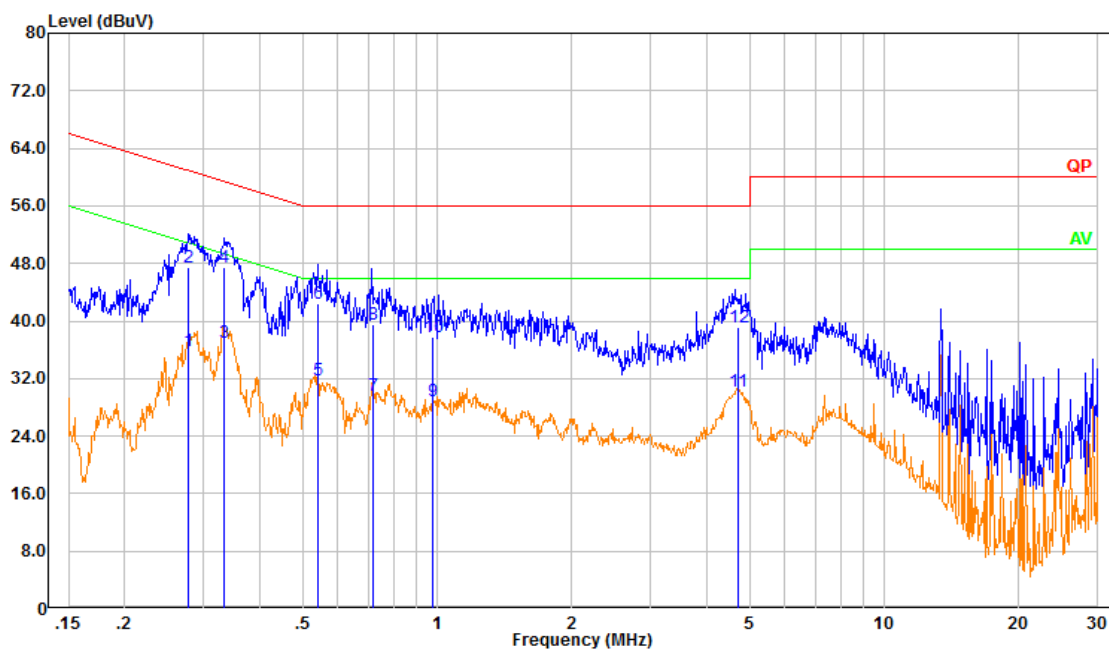
AC/DC Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.175	14.26	9.61	23.87	54.73	30.86	Average
2	0.175	28.92	9.61	38.53	64.73	26.20	QP
3	0.278	24.32	9.61	33.93	50.87	16.94	Average
4	0.278	34.63	9.61	44.24	60.87	16.63	QP
5	0.345	27.14	9.61	36.75	49.08	12.33	Average
6	0.345	34.75	9.61	44.36	59.08	14.72	QP
7	0.537	20.30	9.61	29.92	46.00	16.08	Average
8	0.537	28.95	9.61	38.56	56.00	17.44	QP
9	0.724	18.92	9.62	28.54	46.00	17.46	Average
10	0.724	26.44	9.62	36.06	56.00	19.94	QP
11	4.724	20.97	9.66	30.62	46.00	15.38	Average
12	4.724	26.95	9.66	36.60	56.00	19.40	QP

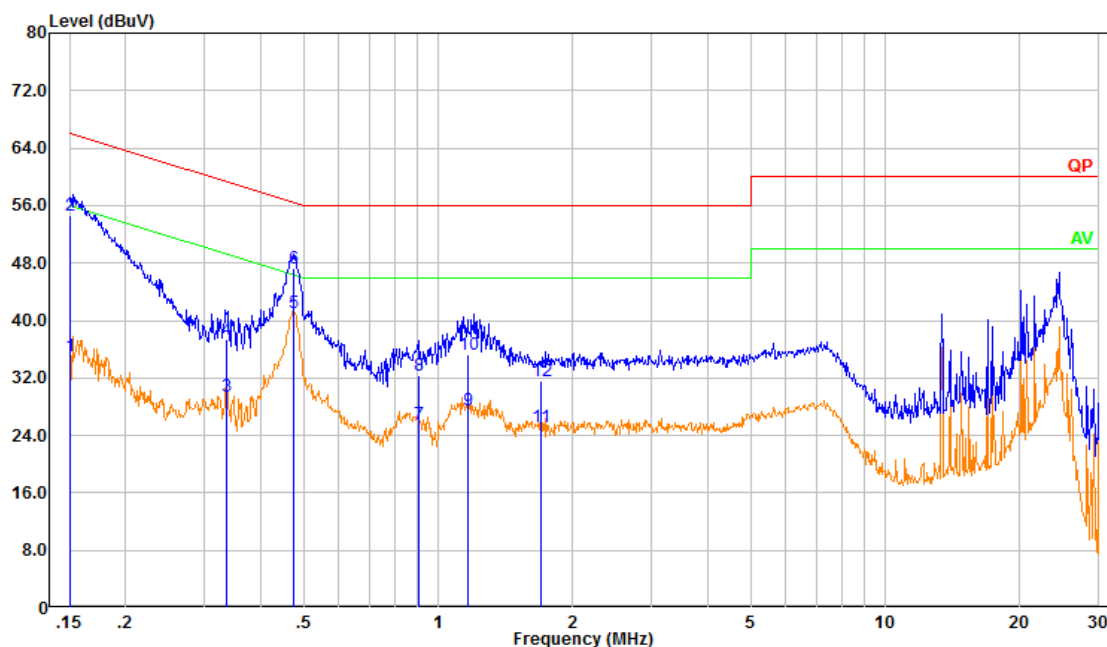
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.278	26.23	9.61	35.84	50.89	15.05	Average
2	0.278	37.77	9.61	47.38	60.89	13.51	QP
3	0.334	27.44	9.61	37.05	49.35	12.30	Average
4	0.334	37.89	9.61	47.50	59.35	11.85	QP
5	0.540	22.16	9.61	31.78	46.00	14.22	Average
6	0.540	32.87	9.61	42.49	56.00	13.51	QP
7	0.721	19.95	9.62	29.57	46.00	16.43	Average
8	0.721	29.98	9.62	39.60	56.00	16.40	QP
9	0.980	19.30	9.62	28.92	46.00	17.08	Average
10	0.980	28.21	9.62	37.83	56.00	18.17	QP
11	4.706	20.52	9.66	30.17	46.00	15.83	Average
12	4.706	29.44	9.66	39.09	56.00	16.91	QP

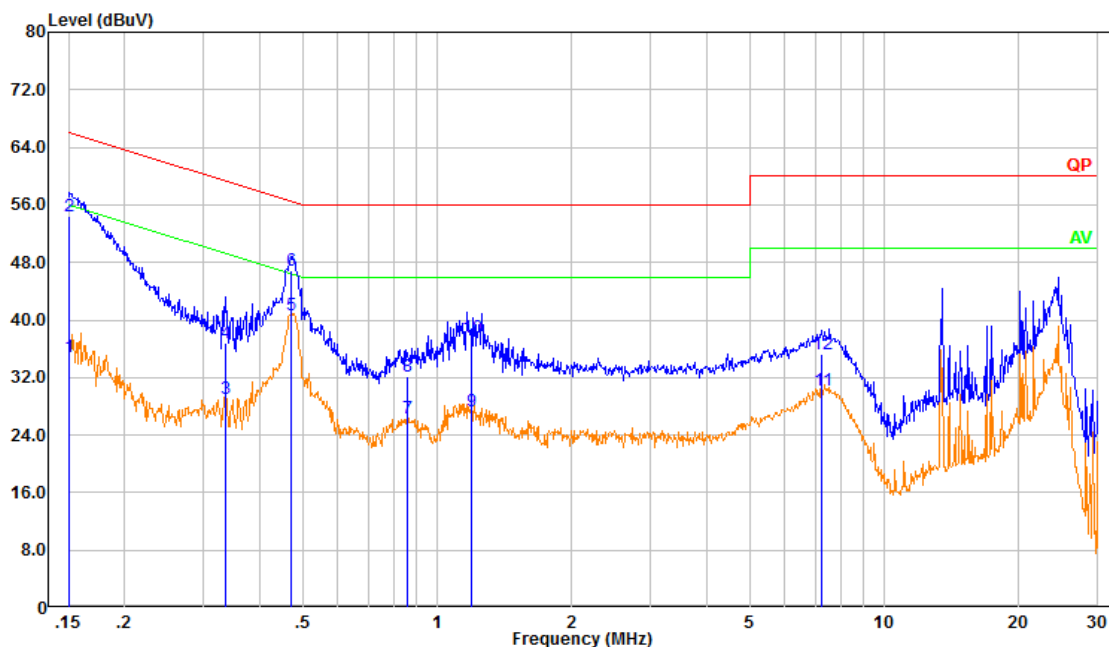
POE Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	25.50	9.61	35.11	55.98	20.87	Average
2	0.150	45.03	9.61	54.64	65.98	11.34	QP
3	0.336	19.92	9.61	29.53	49.31	19.78	Average
4	0.336	27.72	9.61	37.33	59.31	21.98	QP
5	0.475	31.41	9.61	41.02	46.42	5.40	Average
6	0.475	37.63	9.61	47.24	56.42	9.18	QP
7	0.904	15.95	9.62	25.57	46.00	20.43	Average
8	0.904	22.67	9.62	32.29	56.00	23.71	QP
9	1.169	17.96	9.62	27.58	46.00	18.42	Average
10	1.169	25.71	9.62	35.34	56.00	20.66	QP
11	1.698	15.62	9.63	25.25	46.00	20.75	Average
12	1.698	22.02	9.63	31.65	56.00	24.35	QP

Neutral:

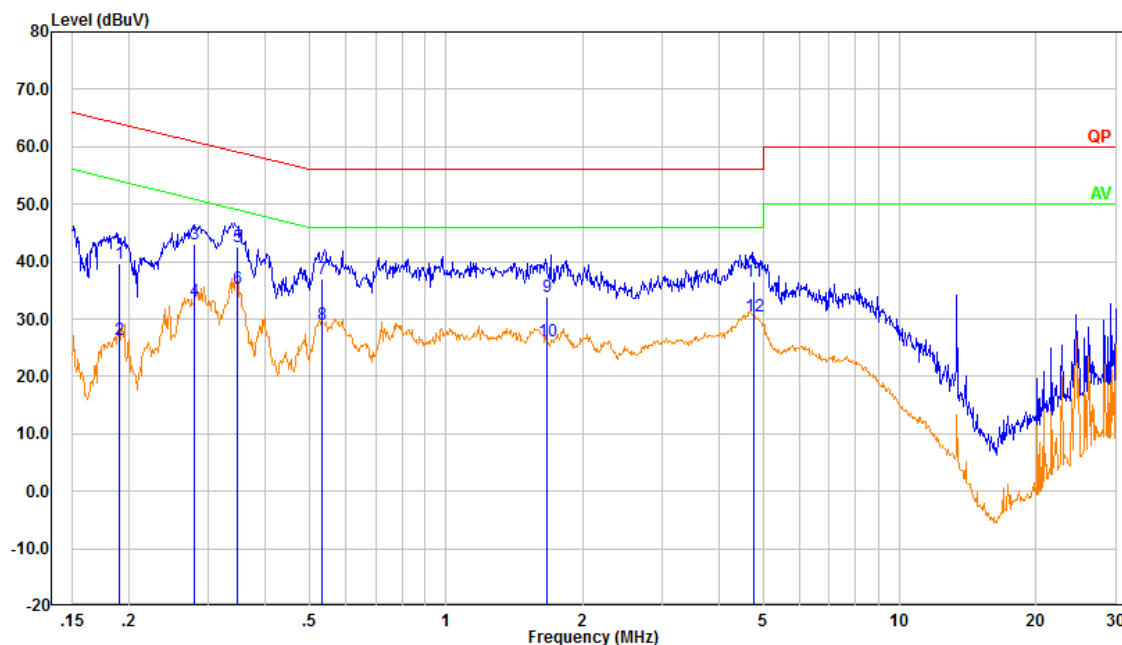


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	25.23	9.61	34.84	55.98	21.14	Average
2	0.150	44.79	9.61	54.40	65.98	11.58	QP
3	0.337	19.48	9.61	29.09	49.29	20.20	Average
4	0.337	27.18	9.61	36.79	59.29	22.50	QP
5	0.470	31.07	9.61	40.68	46.51	5.83	Average
6	0.470	37.27	9.61	46.88	56.51	9.63	QP
7	0.855	16.74	9.62	26.36	46.00	19.64	Average
8	0.855	22.60	9.62	32.22	56.00	23.78	QP
9	1.193	17.73	9.62	27.36	46.00	18.64	Average
10	1.193	27.91	9.62	37.53	56.00	18.47	QP
11	7.257	20.55	9.66	30.21	50.00	19.79	Average
12	7.257	25.56	9.66	35.23	60.00	24.77	QP

A05S:

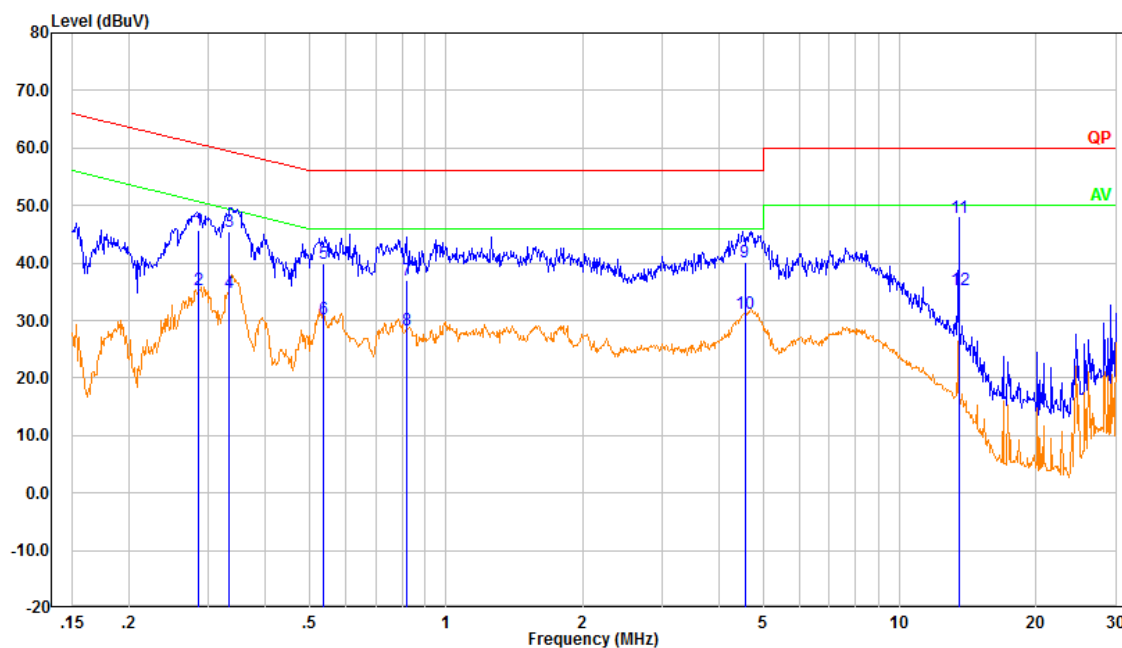
AC/DC Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.191	30.16	9.61	39.77	64.01	24.24	QP
2	0.191	16.71	9.61	26.32	54.01	27.69	Average
3	0.278	33.35	9.61	42.96	60.87	17.91	QP
4	0.278	23.47	9.61	33.08	50.87	17.79	Average
5	0.346	32.99	9.61	42.60	59.06	16.46	QP
6	0.346	25.72	9.61	35.33	49.06	13.73	Average
7	0.533	27.45	9.61	37.07	56.00	18.93	QP
8	0.533	19.38	9.61	28.99	46.00	17.01	Average
9	1.667	24.29	9.63	33.91	56.00	22.09	QP
10	1.667	16.58	9.63	26.21	46.00	19.79	Average
11	4.763	26.78	9.66	36.43	56.00	19.57	QP
12	4.763	20.90	9.66	30.56	46.00	15.44	Average

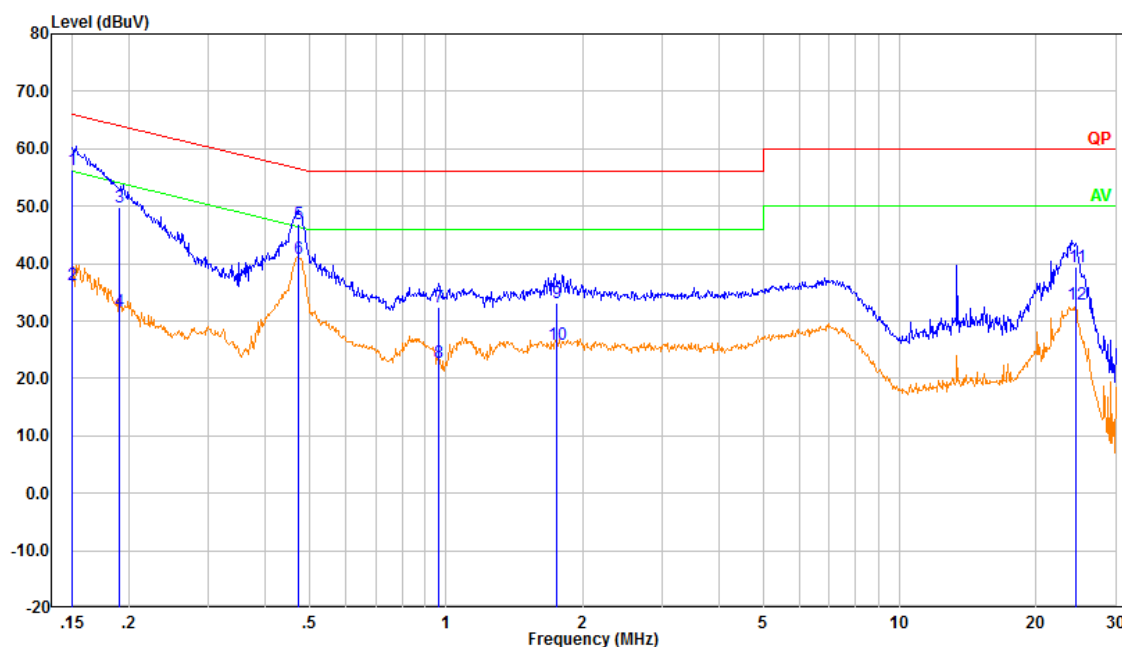
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.285	36.01	9.61	45.62	60.66	15.04	QP
2	0.285	25.63	9.61	35.24	50.66	15.42	Average
3	0.331	35.74	9.61	45.35	59.42	14.07	QP
4	0.331	25.20	9.61	34.81	49.42	14.61	Average
5	0.537	30.35	9.61	39.96	56.00	16.04	QP
6	0.537	20.55	9.61	30.16	46.00	15.84	Average
7	0.818	27.45	9.62	37.07	56.00	18.93	QP
8	0.818	18.77	9.62	28.39	46.00	17.61	Average
9	4.557	30.56	9.66	40.22	56.00	15.78	QP
10	4.557	21.52	9.66	31.18	46.00	14.82	Average
11	13.514	38.28	9.68	47.96	60.00	12.04	QP
12	13.514	25.55	9.68	35.23	50.00	14.77	Average

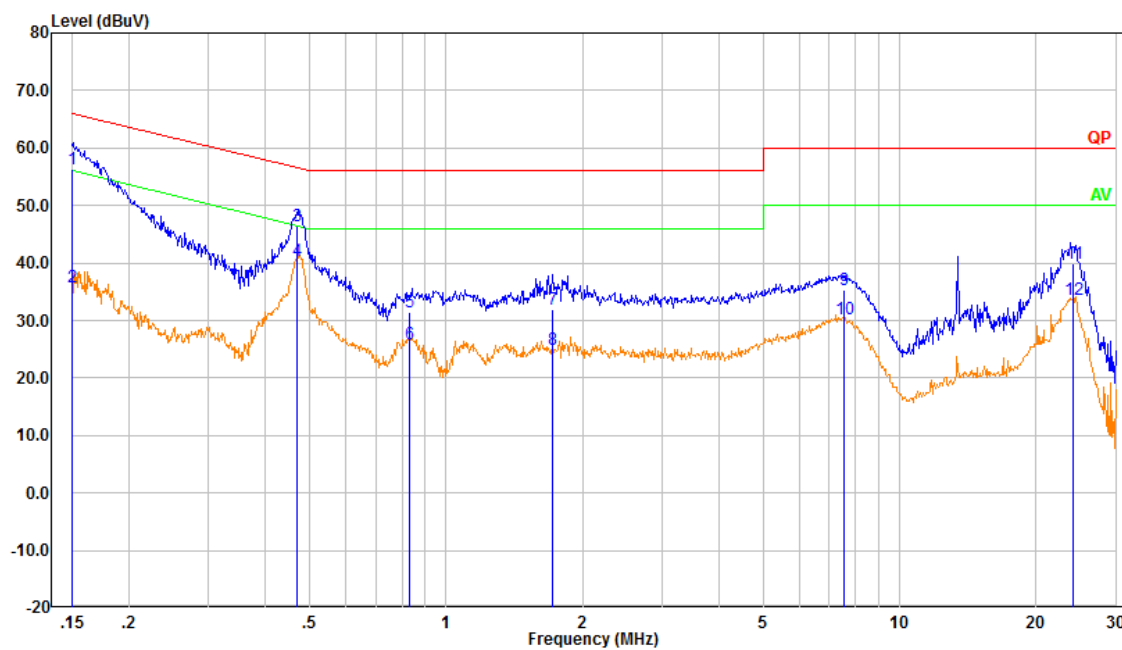
POE Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.150	46.73	9.61	56.34	65.98	9.64	QP
2	0.150	26.62	9.61	36.23	55.98	19.75	Average
3	0.191	40.24	9.61	49.85	63.99	14.14	QP
4	0.191	22.14	9.61	31.75	53.99	22.24	Average
5	0.473	37.24	9.61	46.85	56.47	9.62	QP
6	0.473	31.17	9.61	40.78	46.47	5.69	Average
7	0.961	22.73	9.62	32.35	56.00	23.65	QP
8	0.961	13.25	9.62	22.87	46.00	23.13	Average
9	1.758	23.63	9.63	33.26	56.00	22.74	QP
10	1.758	16.27	9.63	25.90	46.00	20.10	Average
11	24.531	29.72	9.81	39.53	60.00	20.47	QP
12	24.531	23.04	9.81	32.85	50.00	17.15	Average

Neutral:



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.150	46.74	9.61	56.35	65.98	9.63	QP
2	0.150	26.23	9.61	35.84	55.98	20.14	Average
3	0.469	36.87	9.61	46.48	56.53	10.05	QP
4	0.469	30.85	9.61	40.46	46.53	6.07	Average
5	0.832	21.76	9.62	31.38	56.00	24.62	QP
6	0.832	16.32	9.62	25.94	46.00	20.06	Average
7	1.722	22.35	9.63	31.98	56.00	24.02	QP
8	1.722	15.32	9.63	24.94	46.00	21.06	Average
9	7.538	25.65	9.67	35.32	60.00	24.68	QP
10	7.538	20.55	9.67	30.21	50.00	19.79	Average
11	24.200	30.16	9.75	39.91	60.00	20.09	QP
12	24.200	23.89	9.75	33.64	50.00	16.36	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR21110094-S1(E16S) CR21110094-S2(A05S)	Test Date:	2021-12-17~2021-04-02
Test Site:	966-2	Test Mode:	operating
Tester:	Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	18.1~24.3	Relative Humidity: (%)	56~72	ATM Pressure: (kPa)	101~101.4
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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
Audix	Test Software	E3	201021 (V9)	N/A	N/A

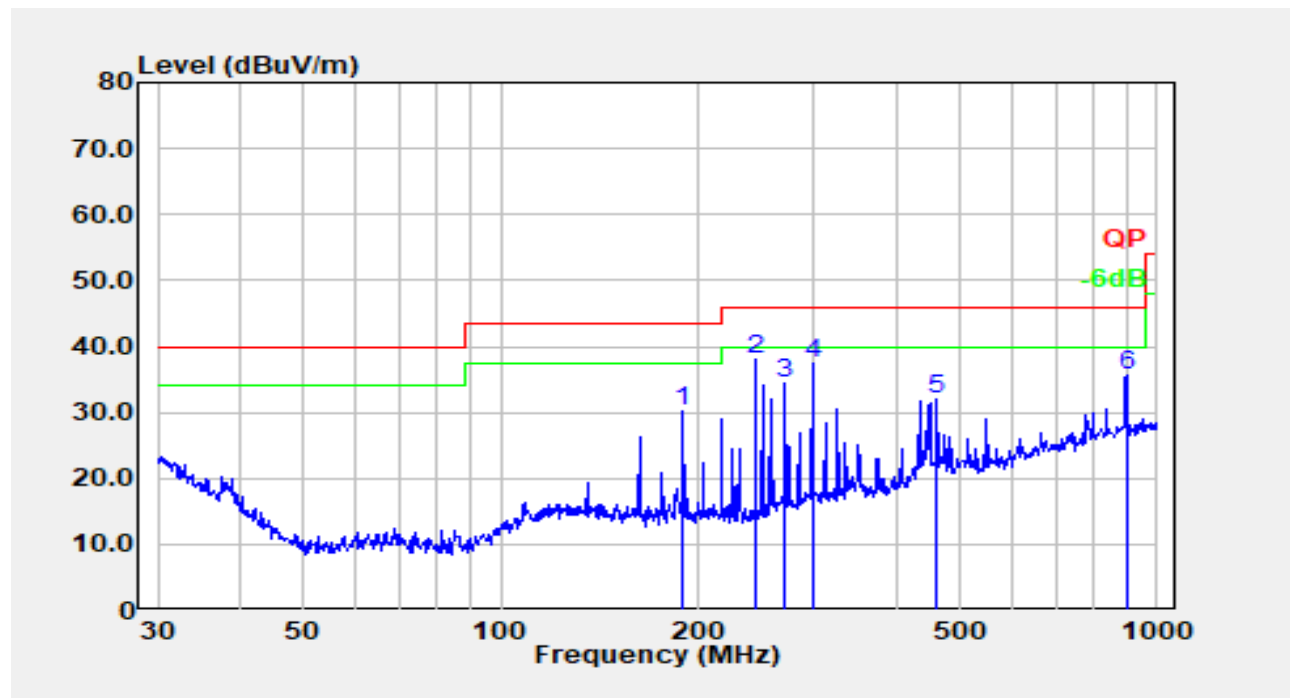
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

1) 30MHz-1GHz:

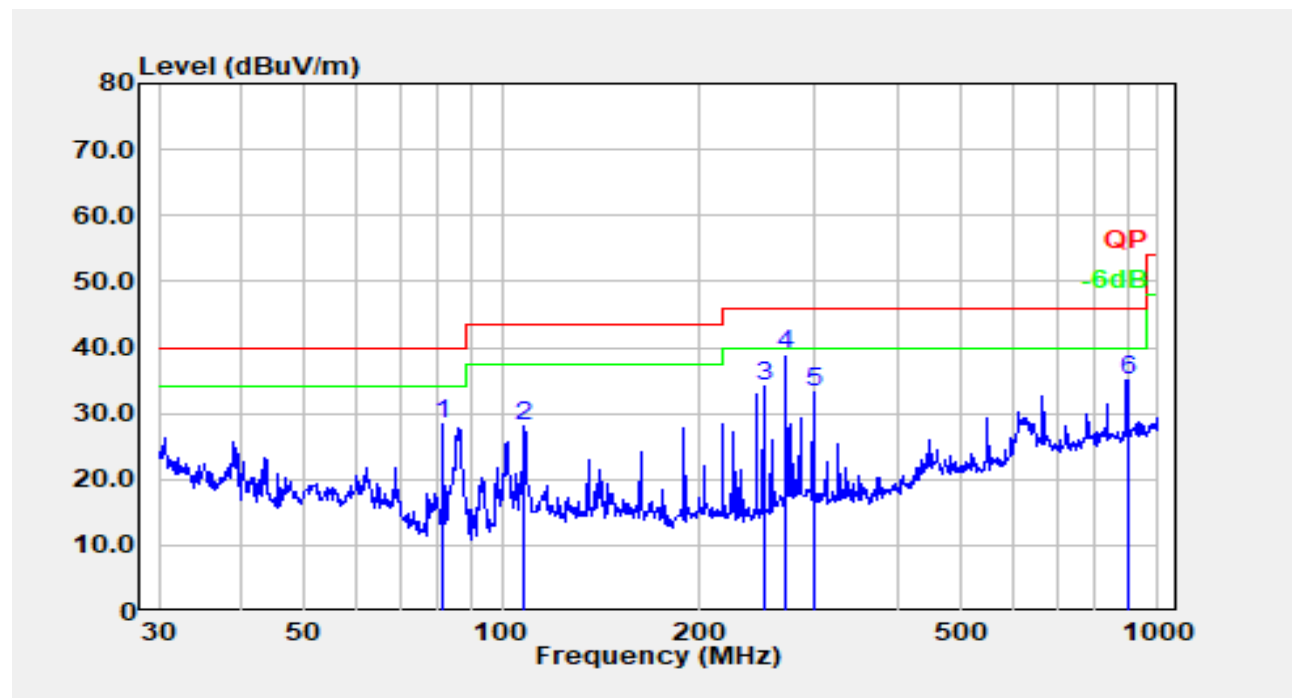
E16S:

AC/DC Adapter Mode:

Horizontal:

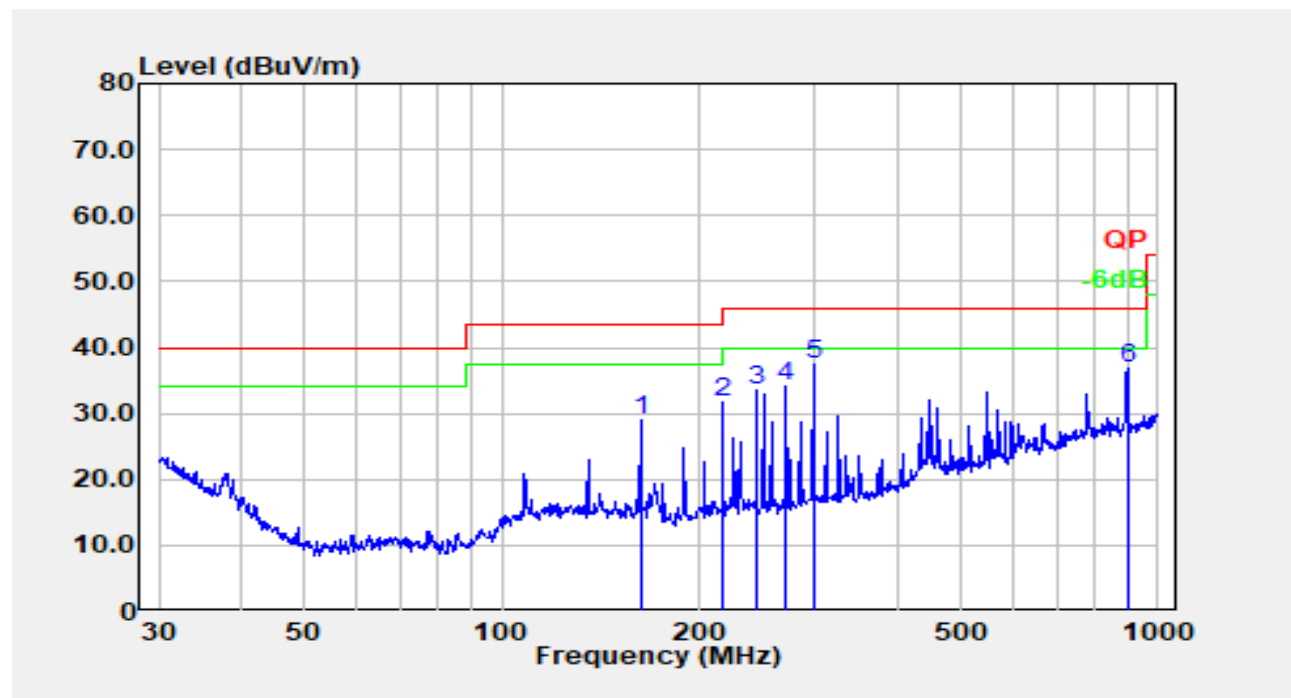


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	189.739	43.84	-13.64	30.20	43.50	13.30	Peak
2	244.232	51.31	-13.13	38.18	46.00	7.82	Peak
3	271.325	46.77	-12.24	34.53	46.00	11.47	Peak
4	298.268	48.33	-10.86	37.47	46.00	8.53	QP
5	462.346	38.90	-6.84	32.06	46.00	13.94	Peak
6	900.147	36.85	-1.23	35.62	46.00	10.38	Peak

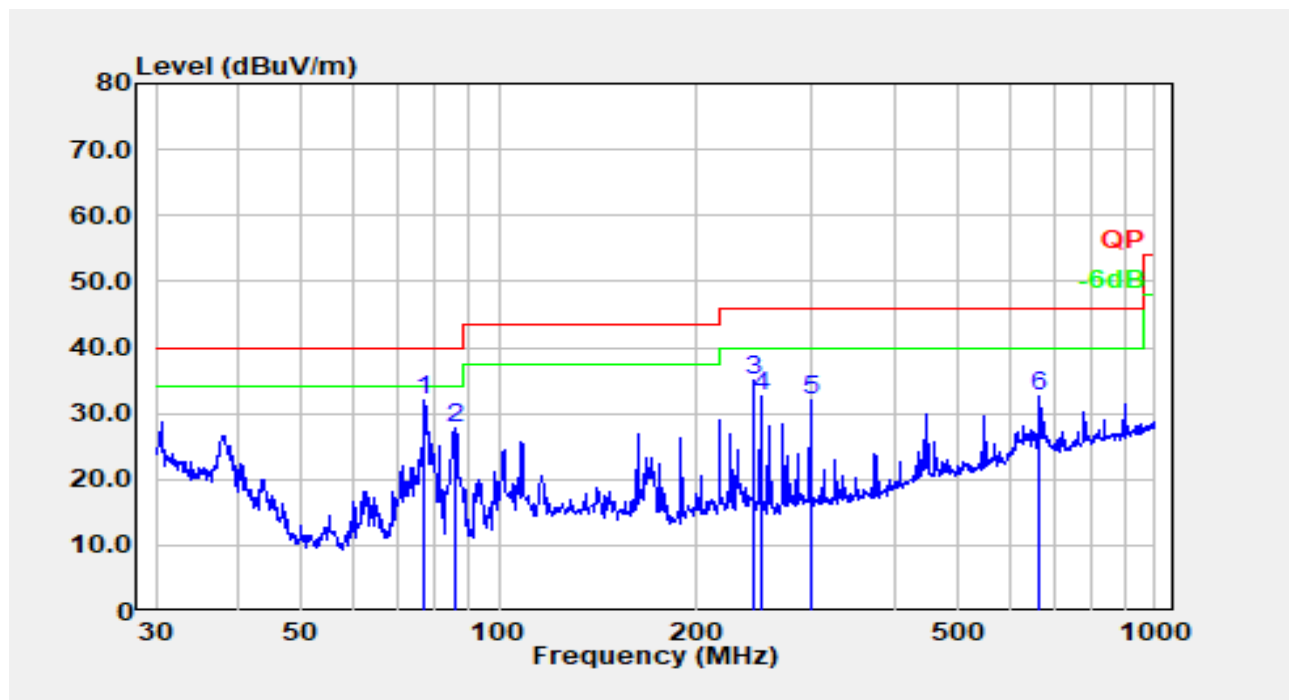
Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	81.212	46.11	-17.63	28.48	40.00	11.52	Peak
2	108.267	40.90	-12.91	27.99	43.50	15.51	Peak
3	250.301	47.42	-13.25	34.17	46.00	11.83	Peak
4	271.325	51.24	-12.24	39.00	46.00	7.00	Peak
5	298.268	44.09	-10.86	33.23	46.00	12.77	Peak
6	900.147	36.36	-1.23	35.13	46.00	10.87	Peak

POE Adapter Mode:

Horizontal:

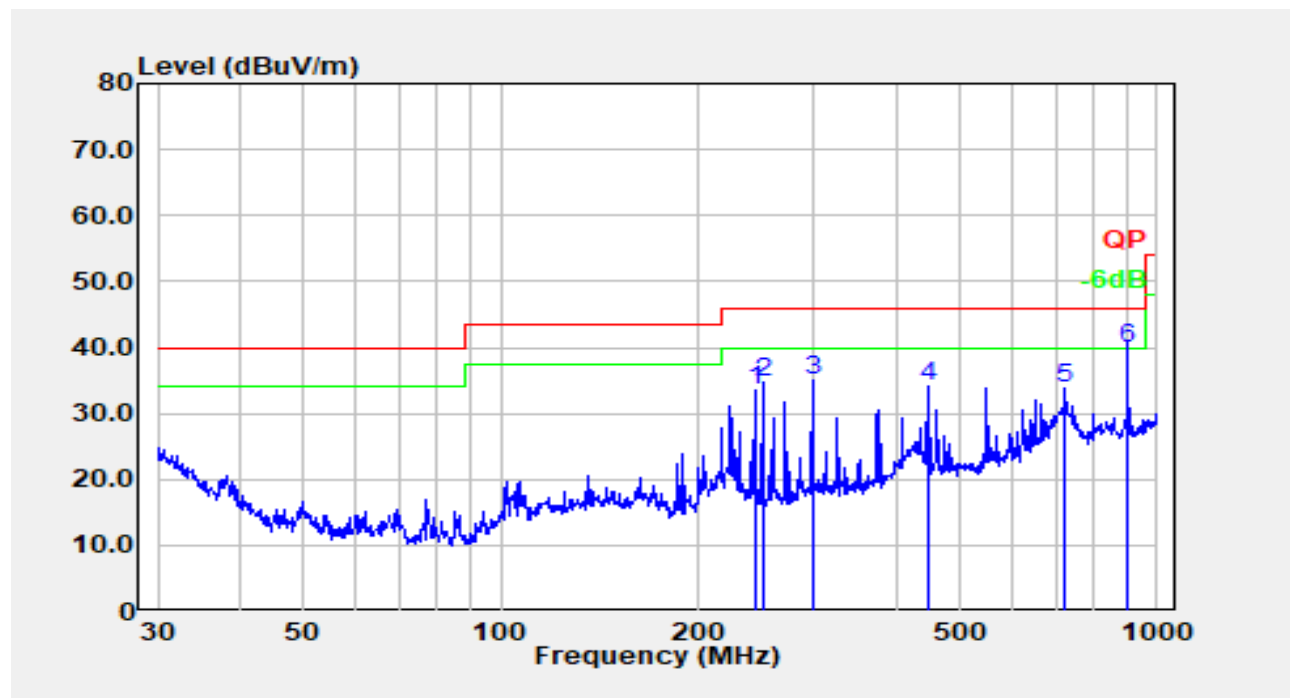
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	162.611	41.49	-12.54	28.94	43.50	14.56	Peak
2	216.783	44.48	-12.86	31.62	46.00	14.38	Peak
3	244.232	46.63	-13.13	33.50	46.00	12.50	Peak
4	271.325	46.49	-12.24	34.25	46.00	11.75	Peak
5	298.268	48.28	-10.86	37.42	46.00	8.58	Peak
6	900.147	38.08	-1.23	36.85	46.00	9.15	Peak

Vertical:

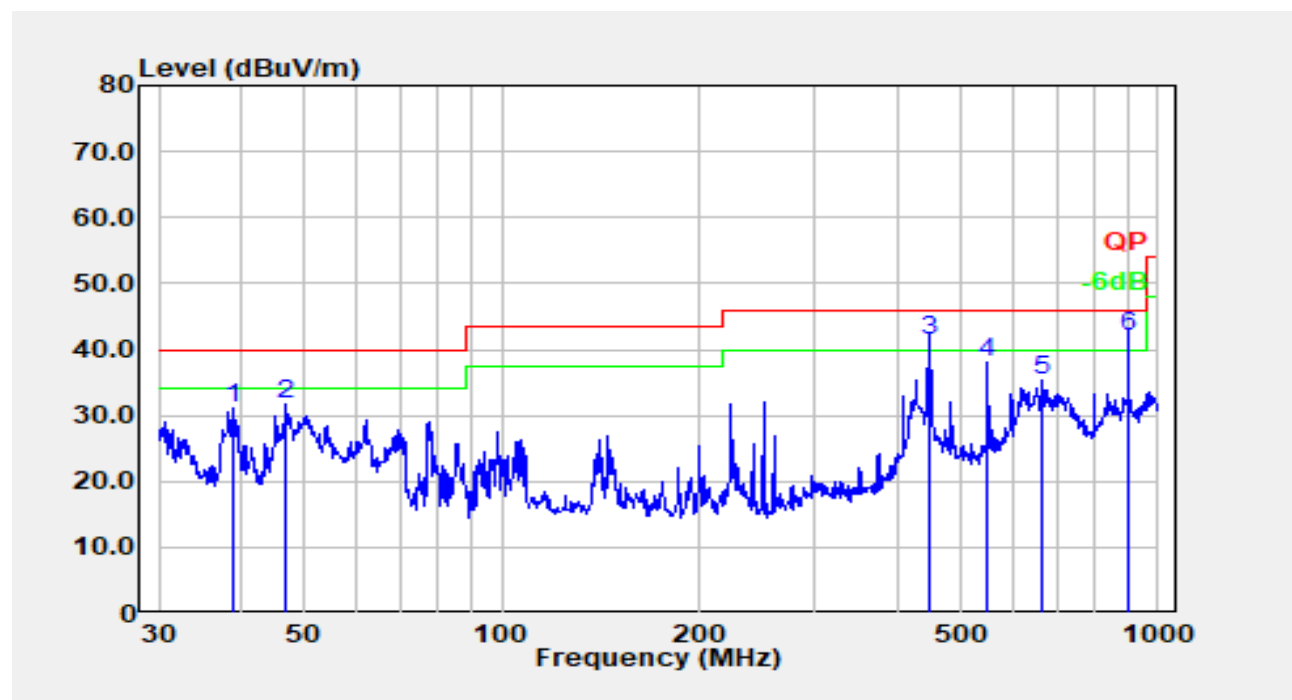
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	77.051	49.28	-17.39	31.90	40.00	8.10	Peak
2	85.898	45.26	-17.39	27.87	40.00	12.13	Peak
3	244.232	48.09	-13.13	34.96	46.00	11.04	Peak
4	250.301	45.80	-13.25	32.55	46.00	13.45	Peak
5	298.268	42.96	-10.86	32.10	46.00	13.90	Peak
6	668.142	37.06	-4.38	32.68	46.00	13.32	Peak

A05S:

AC/DC Adapter Mode:

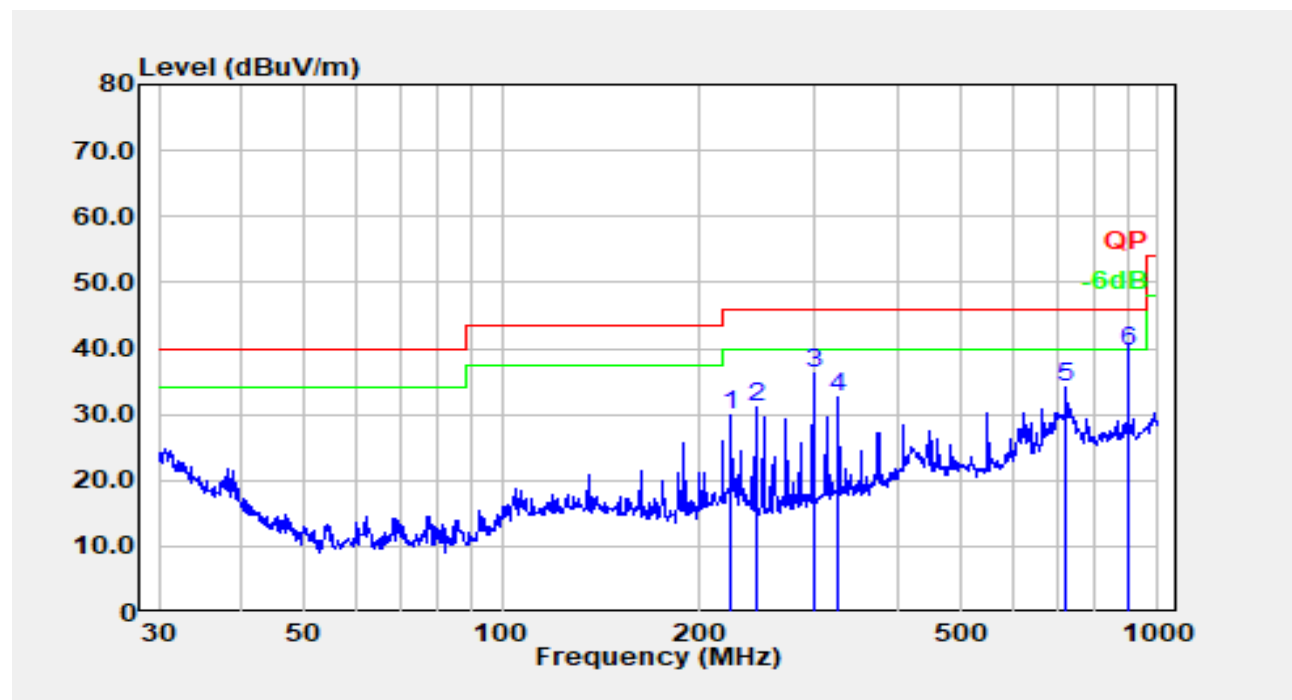
Horizontal:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	244.232	46.60	-13.13	33.47	46.00	12.53	Peak
2	250.301	48.09	-13.25	34.83	46.00	11.17	Peak
3	298.268	45.85	-10.86	35.00	46.00	11.00	Peak
4	446.414	41.35	-7.30	34.05	46.00	11.95	Peak
5	724.261	37.29	-3.40	33.90	46.00	12.10	Peak
6	900.147	41.05	-1.23	39.83	46.00	6.17	QP

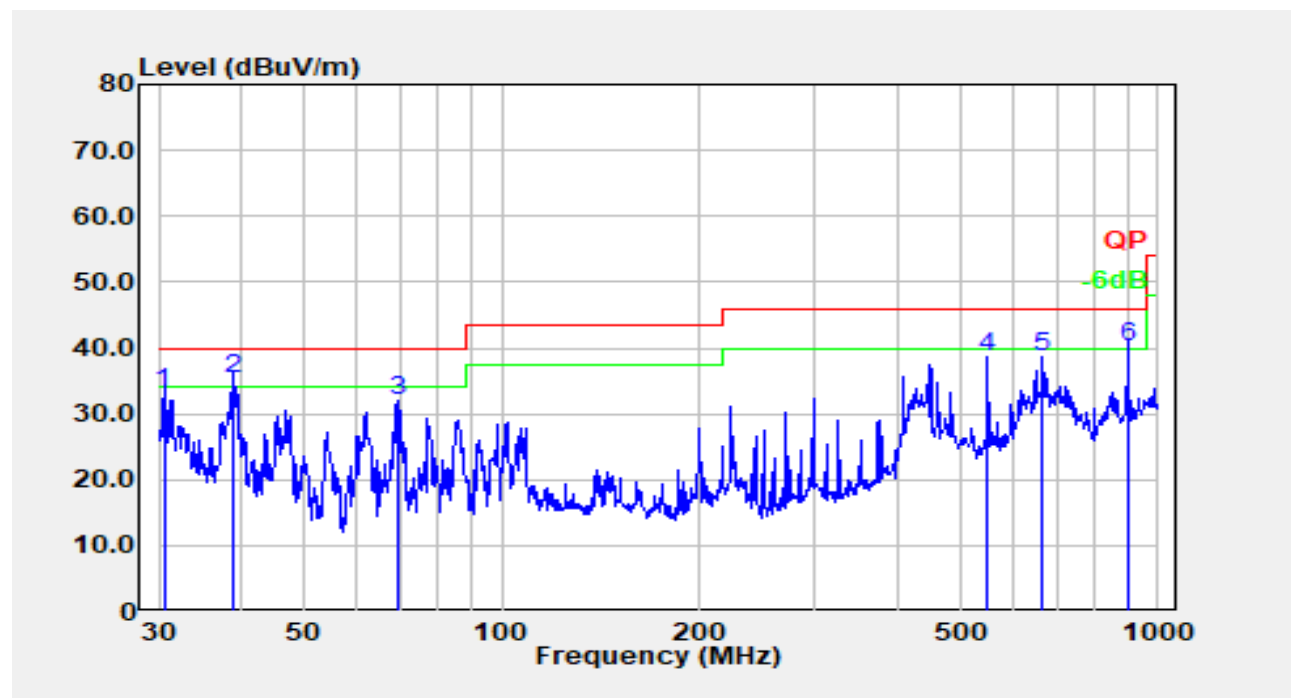
Vertical:

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	41.59	-10.63	30.96	40.00	9.04	Peak
2	46.995	47.35	-15.65	31.70	40.00	8.30	Peak
3	446.414	48.76	-7.30	41.46	46.00	4.54	QP
4	550.948	43.96	-5.98	37.98	46.00	8.02	Peak
5	668.142	39.79	-4.38	35.41	46.00	10.59	Peak
6	900.147	43.14	-1.23	41.91	46.00	4.09	QP

POE Adapter Mode:

Horizontal:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	222.950	42.79	-13.01	29.78	46.00	16.22	Peak
2	244.232	44.23	-13.13	31.10	46.00	14.90	Peak
3	298.268	47.02	-10.86	36.16	46.00	9.84	Peak
4	325.596	43.04	-10.58	32.46	46.00	13.54	Peak
5	724.261	37.51	-3.40	34.11	46.00	11.89	Peak
6	900.147	40.89	-1.23	39.66	46.00	6.34	QP

Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	37.48	-4.20	33.28	40.00	6.72	QP
2	38.888	45.96	-10.63	35.33	40.00	4.67	QP
3	69.600	48.61	-16.76	31.85	40.00	8.15	Peak
4	550.948	44.63	-5.98	38.65	46.00	7.35	Peak
5	668.142	42.91	-4.38	38.53	46.00	7.47	Peak
6	900.147	41.49	-1.23	40.27	46.00	5.73	QP

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