



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Grandstream Networks, Inc.

Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA

FCC ID: YZZGWN7813P

Product Name: Enterprise Layer 3 Managed Network Switch

Model Number: GWN7813P

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

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

Report Number: CR230314625-00A

Date Of Issue: 2023/4/17

Reviewed By: Sun Zhong *Sun Zhong*

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (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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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230314625-00A	Original Report	2023/4/17

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Enterprise Layer 3 Managed Network Switch
Trade Name:	GRANDSTREAM
EUT Model:	GWN7813P
Highest Operation Frequency:	800 MHz
Rated Input Voltage:	AC 100~240V/50~60Hz or DC 54V from adapter
Serial Number:	2302_1
EUT Received Date:	2023/4/3
EUT Received Status:	Good
Note: EUT can configure with two different power modules, power #1(G1489-0460W) and power #2(PA-2431-54H1)	

Accessory Information:

Accessory Description	Manufacturer	Model
/	/	/

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: Operation from power #1 (G1489-0460W) M2: Operation from power #2 (PA-2431-54H1) M3: Operation from adapter (PA-1301-66C3)
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	POE Load	Unknown	CR234632
Unknown	Adapter	PA-1301-66C3	unknown

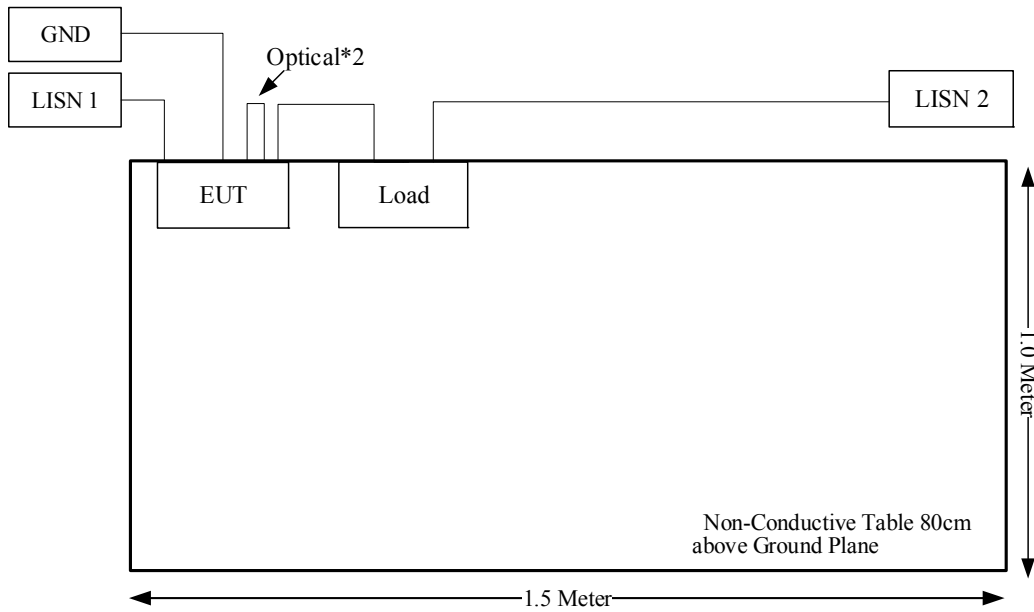
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable*24	No	No	1.8	EUT	POE Load
Optical*2	No	No	4	EUT	EUT
Earth Line	No	No	1	EUT	GND
Power Cable	No	No	1.5	POE Load	LISN2
Power Cable	No	No	1.2	EUT	LISN1
Power Cable	No	No	1.2	Adapter	LISN1
Power Cable	No	Yes	1	Adapter	EUT

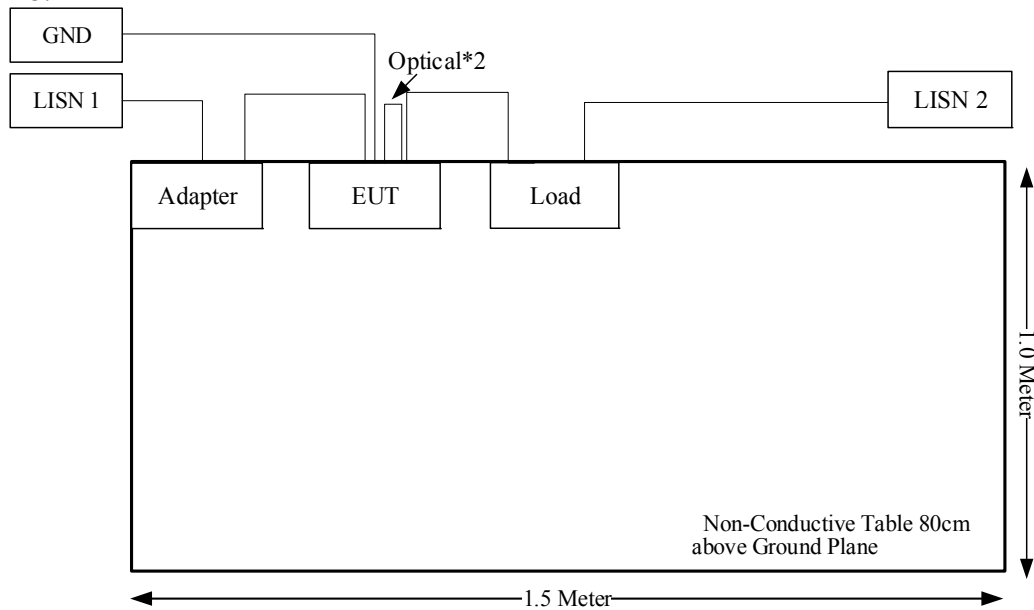
1.2.4 Block Diagram of Test Setup

Conducted emissions:

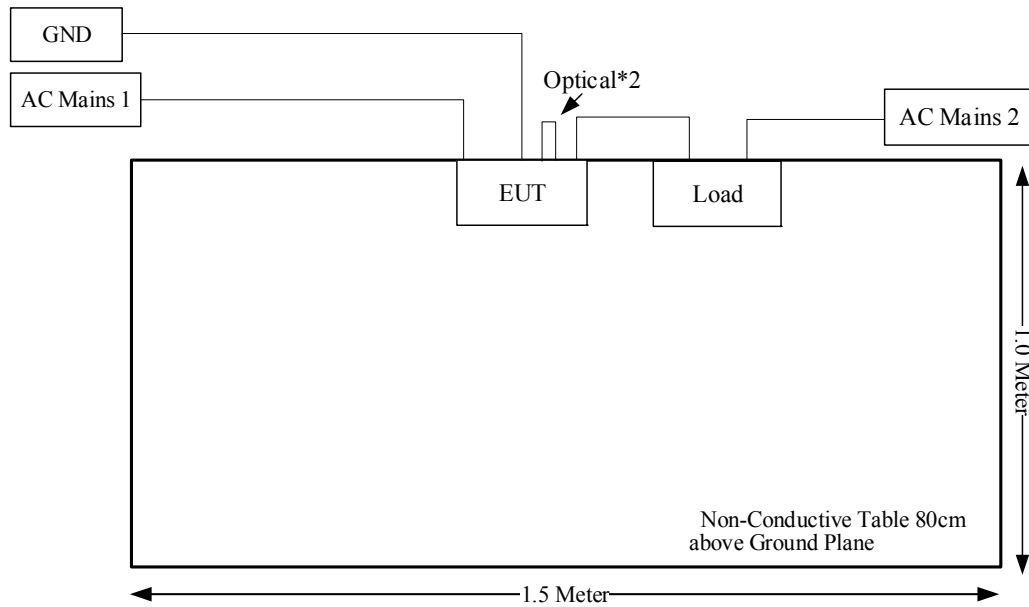
M1/M2:



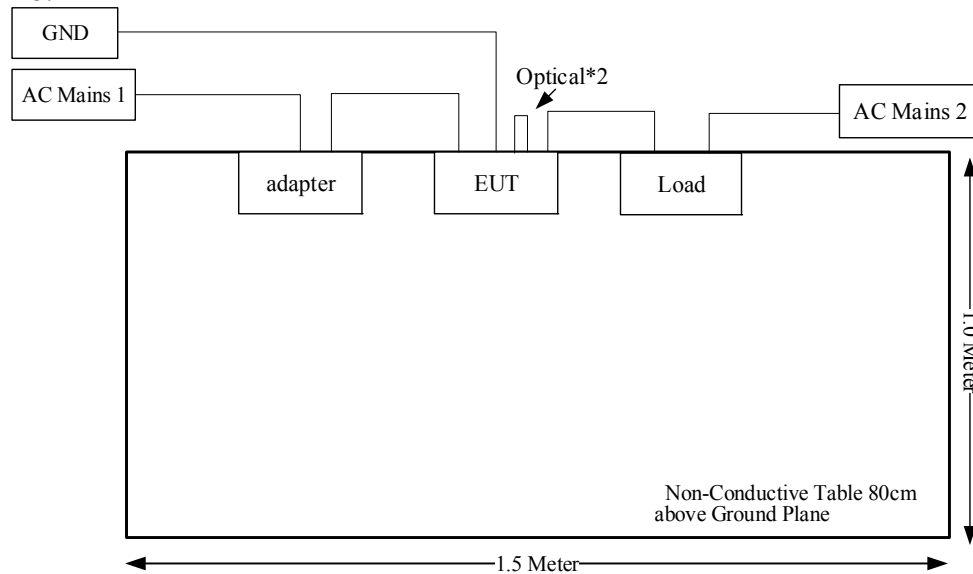
M3:



Radiated emissions:
M1/M2:



M3:



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)

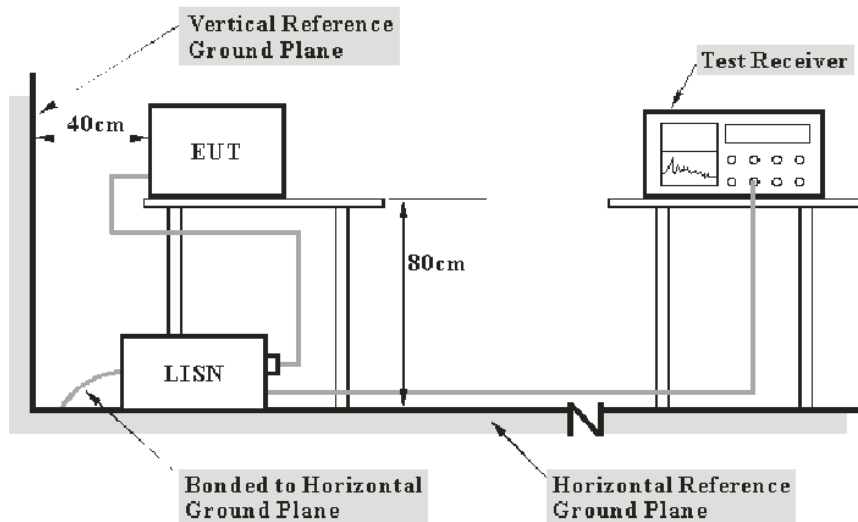
2. SUMMARY OF TEST RESULTS

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 A 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

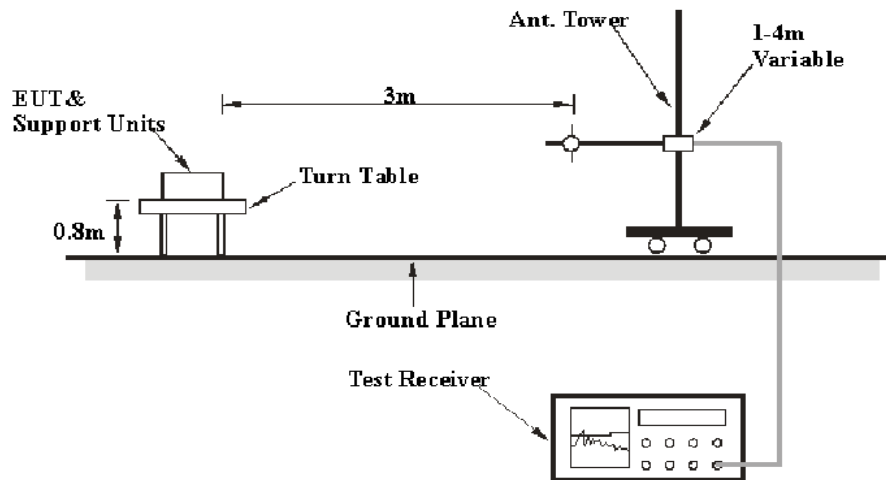
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

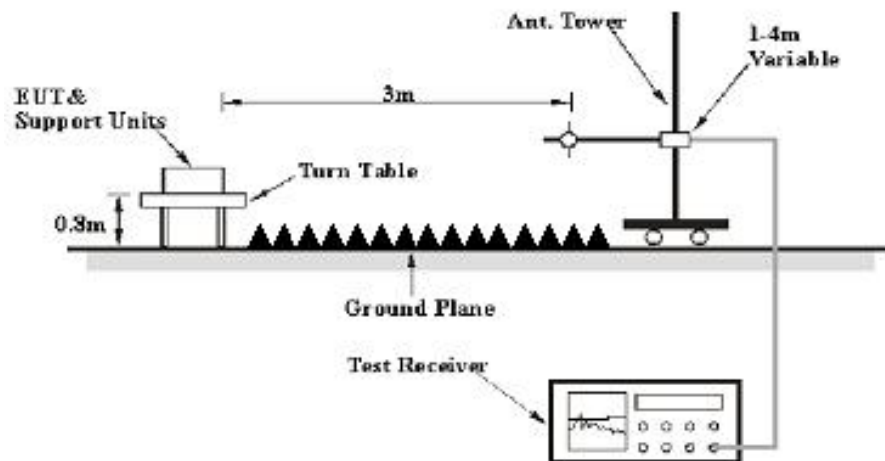
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



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 A limits.

3.2.2 EMI Test Receiver Setup

The system was investigated from 30 MHz to 5 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	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	3 MHz	/	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.

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:	2302_1	Test Date:	2023/04/14
Test Site:	CE	Test Mode:	M1,M2,M3
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24	Relative Humidity: (%)	67	ATM Pressure: (kPa)	101
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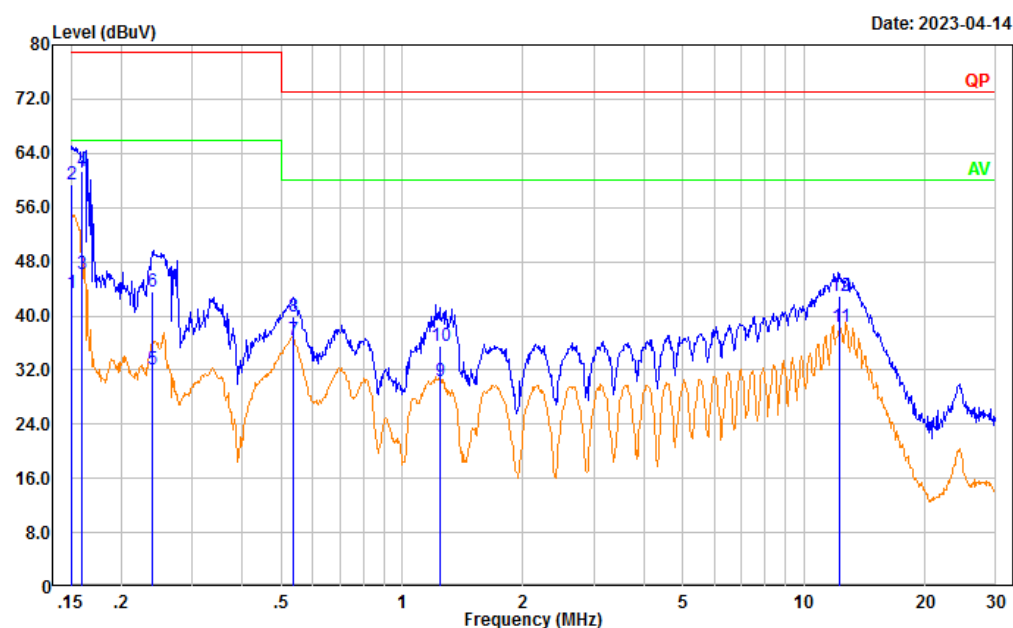
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/03/31	2024/03/30
R&S	LISN	ENV216	101132	2023/03/31	2024/03/30
R&S	EMI Test Receiver	ESR3	102726	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022/08/07	2023/08/06
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).

M1:

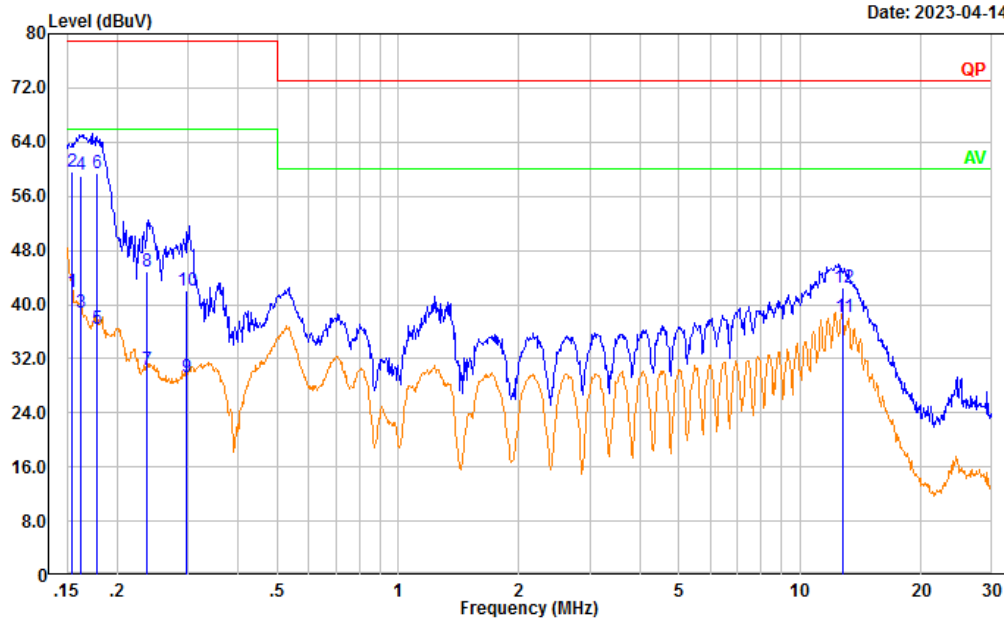
Test Mode: M1 Operation from power #1
Port: Line
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.151	33.81	9.61	43.42	66.00	22.58	Average
2	0.151	49.83	9.61	59.44	79.00	19.56	QP
3	0.160	36.56	9.61	46.17	66.00	19.83	Average
4	0.160	51.83	9.61	61.44	79.00	17.56	QP
5	0.240	22.44	9.61	32.05	66.00	33.95	Average
6	0.240	33.94	9.61	43.55	79.00	35.45	QP
7	0.536	26.71	9.61	36.32	60.00	23.68	Average
8	0.536	30.18	9.61	39.79	73.00	33.21	QP
9	1.242	20.68	9.62	30.30	60.00	29.70	Average
10	1.242	25.83	9.62	35.45	73.00	37.55	QP
11	12.293	28.67	9.67	38.34	60.00	21.66	Average
12	12.293	33.26	9.67	42.93	73.00	30.07	QP

Test Mode: M1 Operation from power #1
Port: neutral
Note:

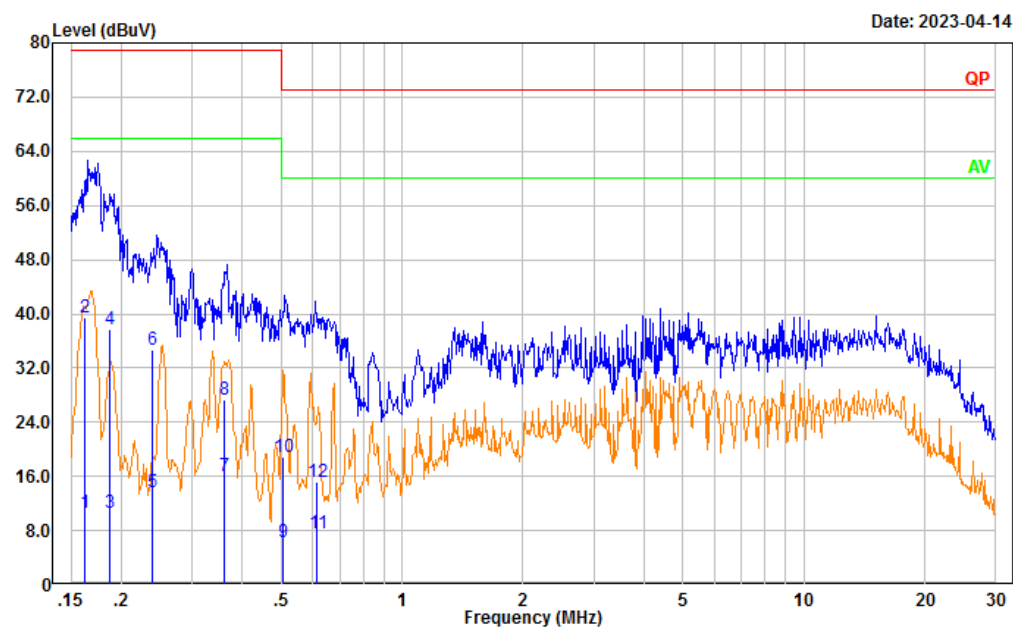
Date: 2023-04-14



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	32.26	9.61	41.87	66.00	24.13	Average
2	0.154	50.01	9.61	59.62	79.00	19.38	QP
3	0.162	29.26	9.61	38.87	66.00	27.13	Average
4	0.162	49.47	9.61	59.08	79.00	19.92	QP
5	0.178	26.72	9.61	36.33	66.00	29.67	Average
6	0.178	49.75	9.61	59.36	79.00	19.64	QP
7	0.238	20.70	9.61	30.31	66.00	35.69	Average
8	0.238	35.25	9.61	44.86	79.00	34.14	QP
9	0.298	19.61	9.61	29.22	66.00	36.78	Average
10	0.298	32.42	9.61	42.03	79.00	36.97	QP
11	12.813	28.52	9.68	38.20	60.00	21.80	Average
12	12.813	32.86	9.68	42.54	73.00	30.46	QP

M2:

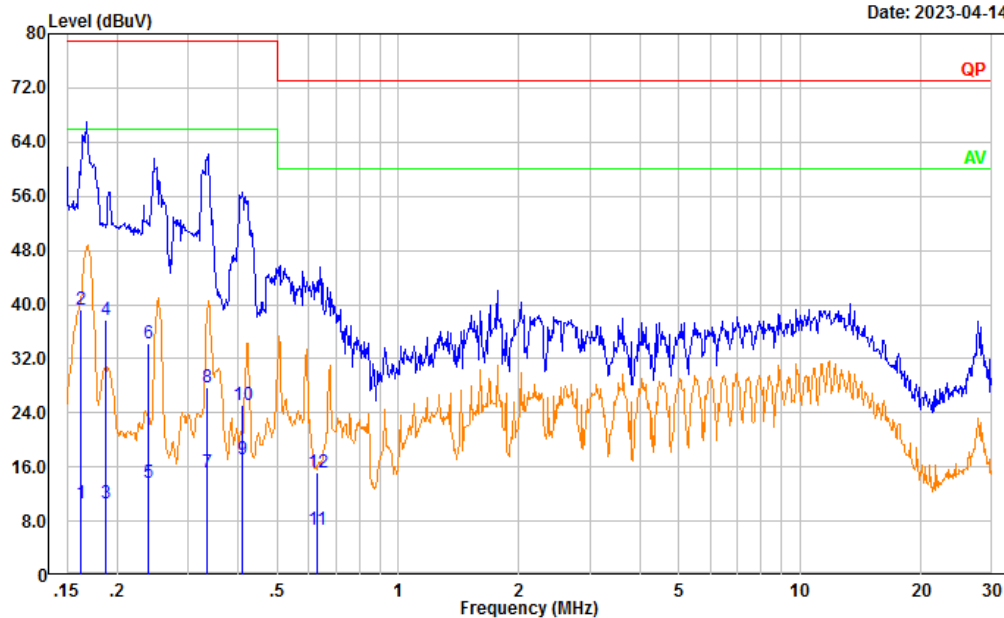
Test Mode: M2 Operation from power #2
Port: Line
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.163	1.00	9.61	10.61	66.00	55.39	Average
2	0.163	29.78	9.61	39.39	79.00	39.61	QP
3	0.187	1.01	9.61	10.62	66.00	55.38	Average
4	0.187	28.19	9.61	37.80	79.00	41.20	QP
5	0.239	4.03	9.61	13.64	66.00	52.36	Average
6	0.239	25.12	9.61	34.73	79.00	44.27	QP
7	0.362	6.50	9.61	16.11	66.00	49.89	Average
8	0.362	17.73	9.61	27.34	79.00	51.66	QP
9	0.504	-3.24	9.61	6.37	60.00	53.63	Average
10	0.504	9.23	9.61	18.84	73.00	54.16	QP
11	0.614	-1.99	9.62	7.63	60.00	52.37	Average
12	0.614	5.58	9.62	15.20	73.00	57.80	QP

Test Mode: M2 Operation from power #2
Port: neutral
Note:

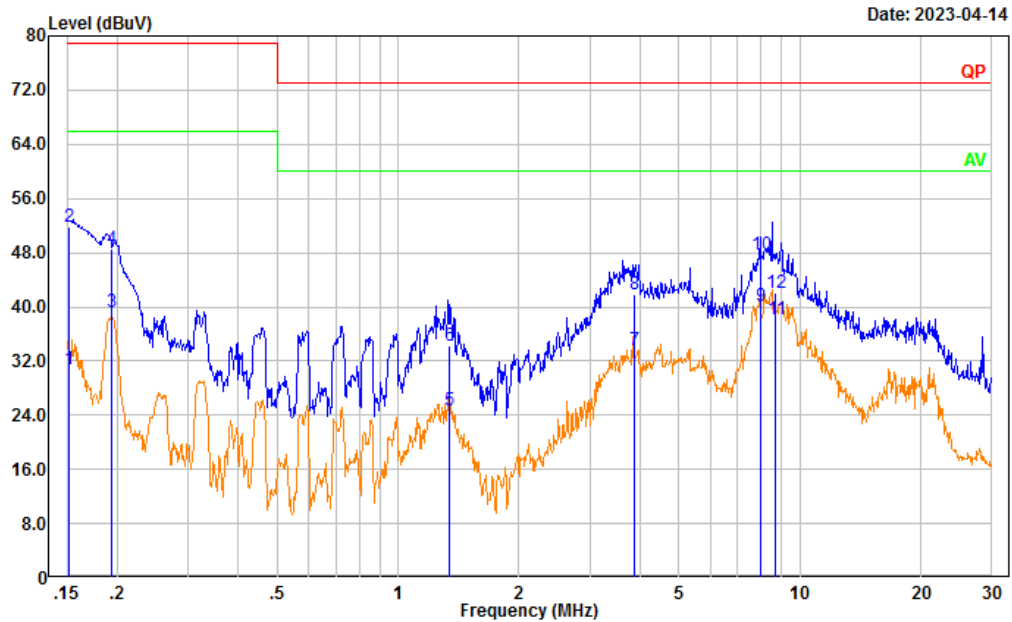
Date: 2023-04-14



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.163	1.07	9.61	10.68	66.00	55.32	Average
2	0.163	29.69	9.61	39.30	79.00	39.70	QP
3	0.188	1.04	9.61	10.65	66.00	55.35	Average
4	0.188	28.16	9.61	37.77	79.00	41.23	QP
5	0.240	4.11	9.61	13.72	66.00	52.28	Average
6	0.240	24.59	9.61	34.20	79.00	44.80	QP
7	0.336	5.47	9.61	15.08	66.00	50.92	Average
8	0.336	18.24	9.61	27.85	79.00	51.15	QP
9	0.410	7.57	9.61	17.18	66.00	48.82	Average
10	0.410	15.46	9.61	25.07	79.00	53.93	QP
11	0.627	-2.99	9.62	6.63	60.00	53.37	Average
12	0.627	5.56	9.62	15.18	73.00	57.82	QP

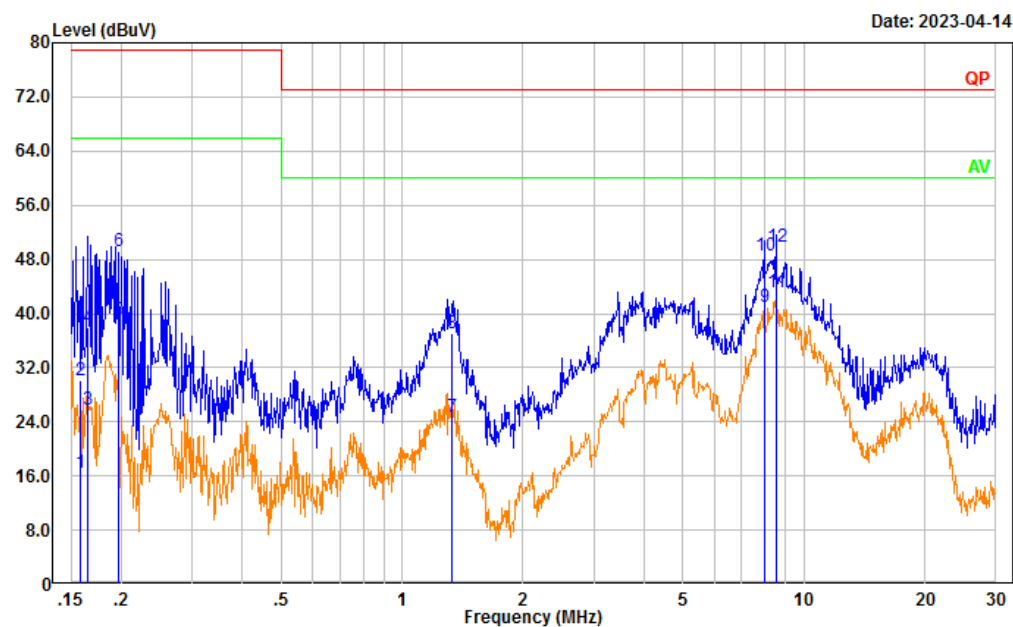
M3:

Test Mode: M3 Operation from adapter
Port: Line
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.152	21.14	9.61	30.75	66.00	35.25	Average
2	0.152	42.11	9.61	51.72	79.00	27.28	QP
3	0.194	29.61	9.61	39.22	66.00	26.78	Average
4	0.194	38.86	9.61	48.47	79.00	30.53	QP
5	1.338	15.06	9.62	24.68	60.00	35.32	Average
6	1.338	24.68	9.62	34.30	73.00	38.70	QP
7	3.877	23.85	9.65	33.50	60.00	26.50	Average
8	3.877	32.14	9.65	41.79	73.00	31.21	QP
9	7.993	30.34	9.67	40.01	60.00	19.99	Average
10	7.993	38.07	9.67	47.74	73.00	25.26	QP
11	8.716	28.45	9.67	38.12	60.00	21.88	Average
12	8.716	32.40	9.67	42.07	73.00	30.93	QP

Test Mode: M3 Operation from adapter
Port: neutral
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.158	6.88	9.61	16.49	66.00	49.51	Average
2	0.158	20.45	9.61	30.06	79.00	48.94	QP
3	0.165	16.23	9.61	25.84	66.00	40.16	Average
4	0.165	28.42	9.61	38.03	79.00	40.97	QP
5	0.196	29.50	9.61	39.11	66.00	26.89	Average
6	0.196	39.50	9.61	49.11	79.00	29.89	QP
7	1.325	15.20	9.62	24.82	60.00	35.18	Average
8	1.325	27.37	9.62	36.99	73.00	36.01	QP
9	7.991	31.41	9.67	41.08	60.00	18.92	Average
10	7.991	38.94	9.67	48.61	73.00	24.39	QP
11	8.524	33.40	9.67	43.07	60.00	16.93	Average
12	8.524	40.18	9.67	49.85	73.00	23.15	QP

4.2 Radiation Spurious Emissions

Serial Number:	2302_1	Test Date:	2023/4/11~2023/4/16
Test Site:	966-2,966-1	Test Mode:	M1,M2,M3
Tester:	Vic Du,Tao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~26.7	Relative Humidity: (%)	50~63	ATM Pressure: (kPa)	100.7
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Test Equipment List and Details:

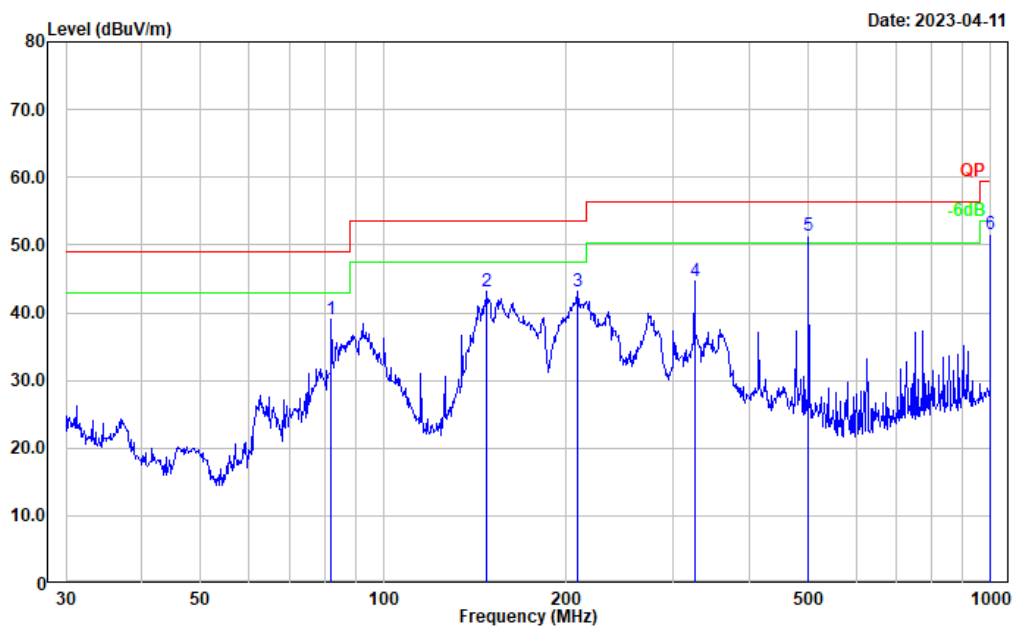
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
Audix	Test Software	E3	201021 (V9)	N/A	N/A
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08

* 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:

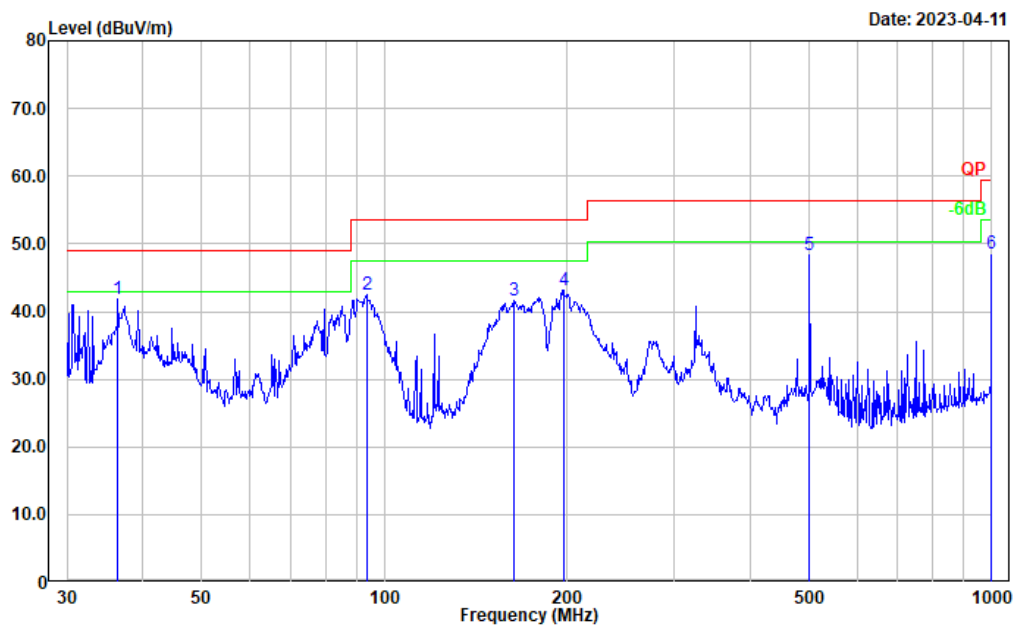
M1:

Test Mode: Operation from power #1
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	82.071	56.46	-17.35	39.11	49.00	9.89	Peak
2	147.921	55.05	-11.99	43.06	53.50	10.44	Peak
3	208.580	55.56	-12.44	43.12	53.50	10.38	Peak
4	325.596	54.92	-10.36	44.56	56.40	11.84	Peak
5	500.017	57.48	-5.99	51.49	56.40	4.91	QP
6	1000.000	50.54	1.03	51.57	59.50	7.93	Peak

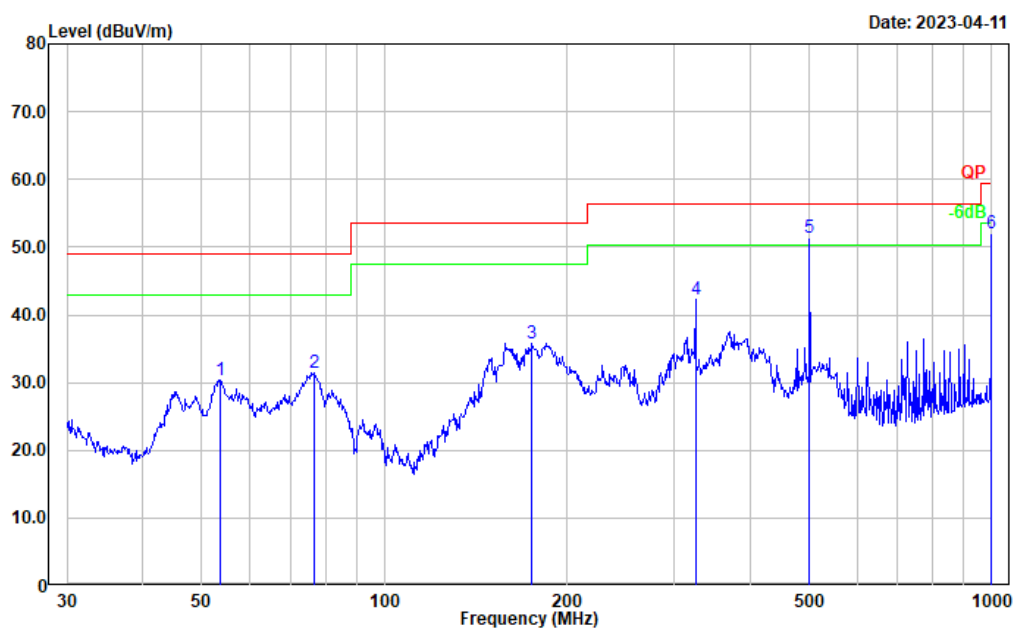
Test Mode: Operation from power #1
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	36.381	50.28	-8.54	41.74	49.00	7.26	Peak
2	93.440	58.52	-16.05	42.47	53.50	11.03	Peak
3	163.182	53.96	-12.35	41.61	53.50	11.89	Peak
4	197.200	55.73	-12.52	43.21	53.50	10.29	Peak
5	501.179	54.24	-5.99	48.25	56.40	8.15	Peak
6	1000.000	47.58	1.03	48.61	59.50	10.89	Peak

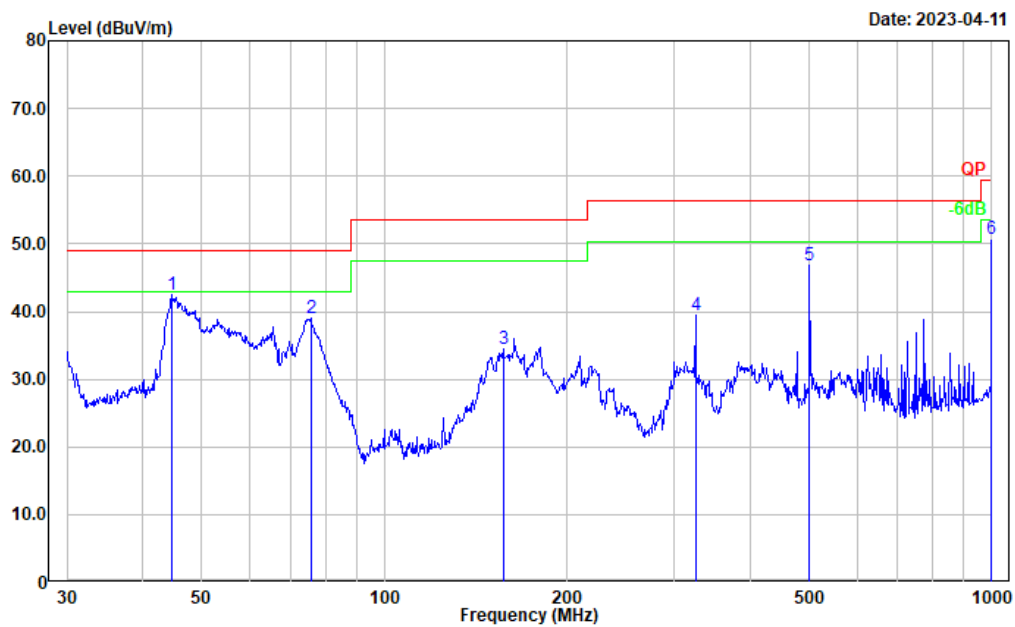
M2:

Test Mode: Operation from power #2
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	53.693	47.66	-17.25	30.41	49.00	18.59	Peak
2	76.512	48.62	-17.09	31.53	49.00	17.47	Peak
3	175.037	49.12	-13.29	35.83	53.50	17.67	Peak
4	325.596	52.53	-10.36	42.17	56.40	14.23	Peak
5	499.997	57.41	-5.99	51.42	56.40	4.98	QP
6	1000.000	51.11	1.03	52.14	59.50	7.36	Peak

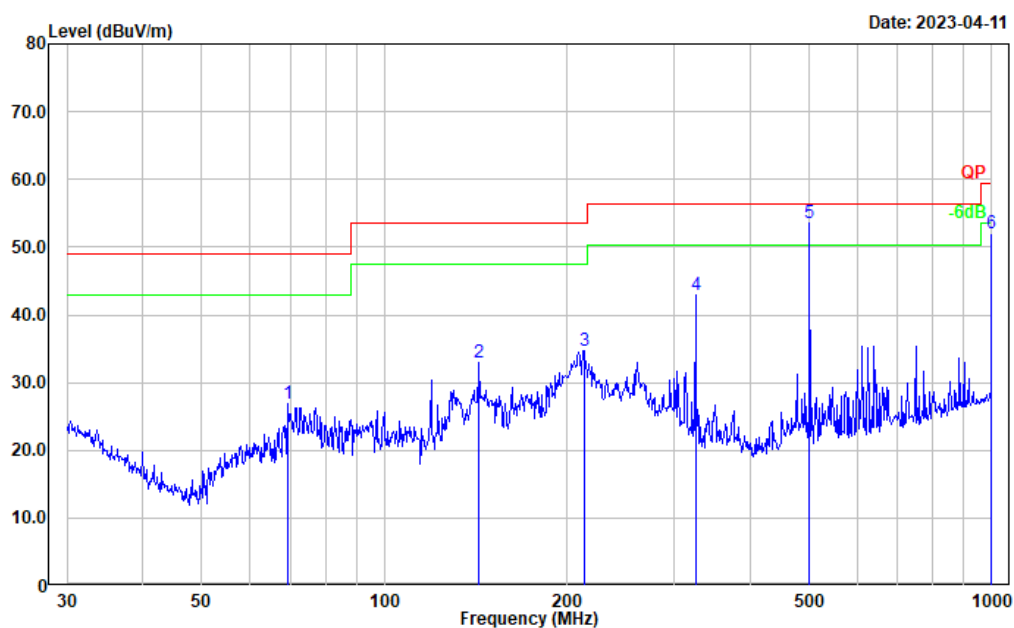
Test Mode: Operation from power #2
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	44.743	56.47	-14.08	42.39	49.00	6.61	Peak
2	75.711	55.93	-16.99	38.94	49.00	10.06	Peak
3	157.007	46.57	-12.04	34.53	53.50	18.97	Peak
4	325.596	49.86	-10.36	39.50	56.40	16.90	Peak
5	501.179	52.72	-5.99	46.73	56.40	9.67	Peak
6	1000.000	49.66	1.03	50.69	59.50	8.81	Peak

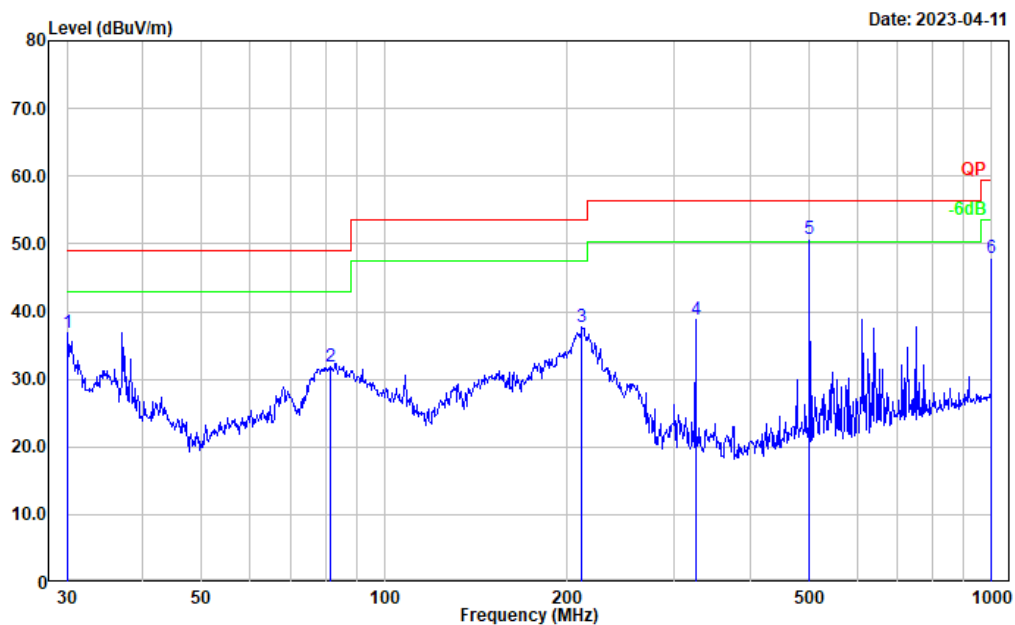
M3:

Test Mode: Operation from adapter
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	69.357	43.52	-16.56	26.96	49.00	22.04	Peak
2	143.326	44.94	-11.93	33.01	53.50	20.49	Peak
3	213.015	47.25	-12.54	34.71	53.50	18.79	Peak
4	325.596	53.21	-10.36	42.85	56.40	13.55	Peak
5	499.997	59.64	-5.99	53.65	56.40	2.75	QP
6	1000.000	51.00	1.03	52.03	59.50	7.47	Peak

Test Mode: Operation from adapter
Polarization: vertical
Note:

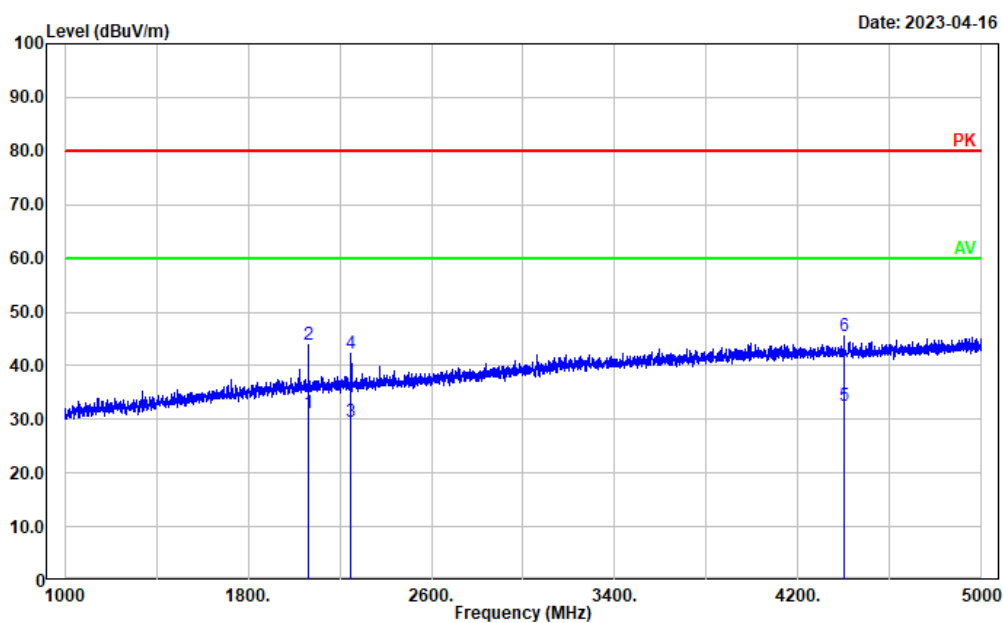


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	40.61	-3.68	36.93	49.00	12.07	Peak
2	81.497	49.19	-17.37	31.82	49.00	17.18	Peak
3	211.527	50.14	-12.52	37.62	53.50	15.88	Peak
4	325.596	49.13	-10.36	38.77	56.40	17.63	Peak
5	499.997	56.66	-5.99	50.67	56.40	5.73	QP
6	1000.000	46.83	1.03	47.86	59.50	11.64	Peak

2) 1GHz-5GHz:

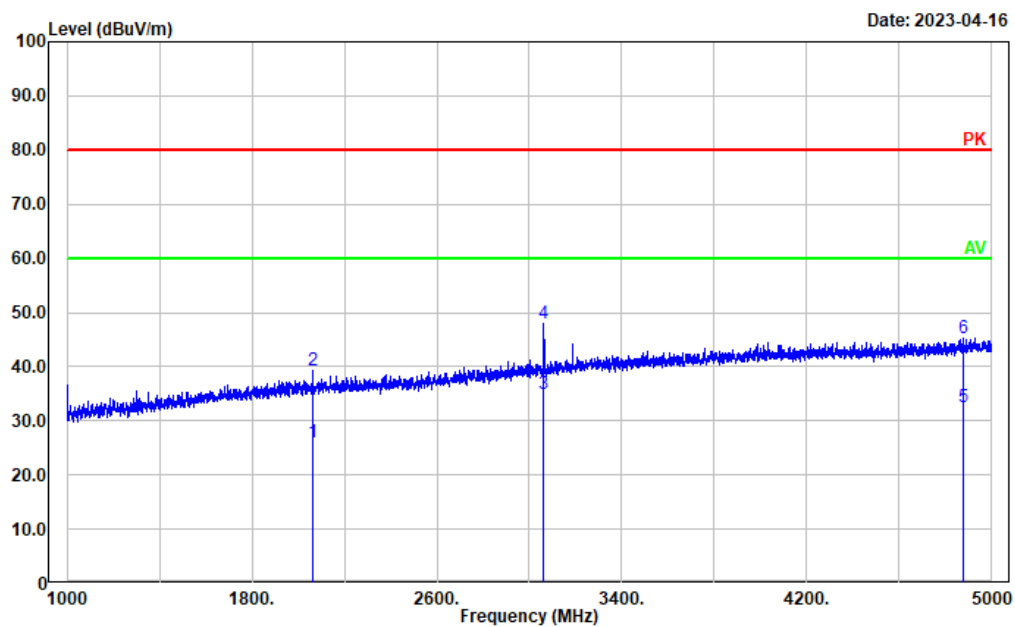
M1:

Test Mode: M1 Operation from power #1
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2062.613	28.66	2.54	31.20	60.00	28.80	Average
2	2062.613	41.46	2.54	44.00	80.00	36.00	Peak
3	2249.850	26.57	3.05	29.62	60.00	30.38	Average
4	2249.850	39.28	3.05	42.33	80.00	37.67	Peak
5	4400.680	22.71	9.84	32.55	60.00	27.45	Average
6	4400.680	35.62	9.84	45.46	80.00	34.54	Peak

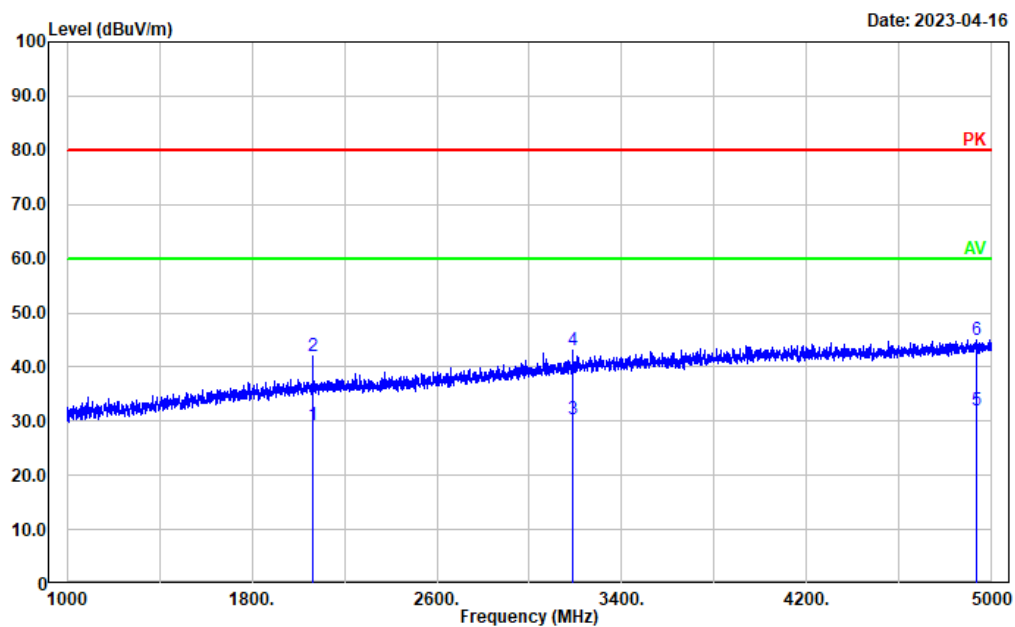
Test Mode: M1 Operation from power #1
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2062.613	23.59	2.54	26.13	60.00	33.87	Average
2	2062.613	36.87	2.54	39.41	80.00	40.59	Peak
3	3062.813	28.66	6.28	34.94	60.00	25.06	Average
4	3062.813	41.82	6.28	48.10	80.00	31.90	Peak
5	4876.775	21.52	11.05	32.57	60.00	27.43	Average
6	4876.775	34.23	11.05	45.28	80.00	34.72	Peak

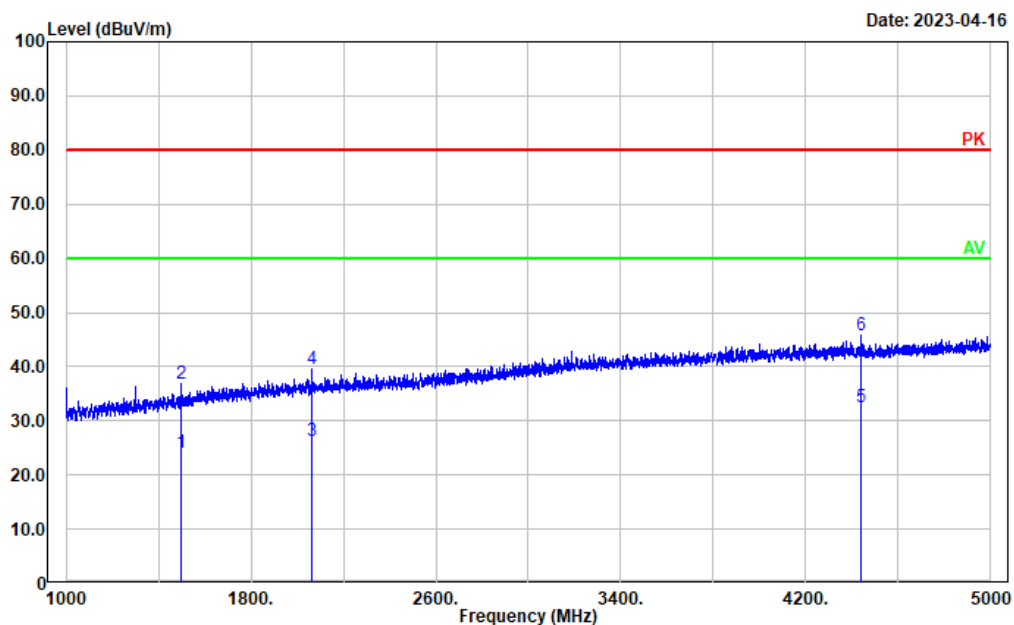
M2:

Test Mode: M2 Operation from power #2
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	2062.613	26.85	2.54	29.39	60.00	30.61	Average
2	2062.613	39.52	2.54	42.06	80.00	37.94	Peak
3	3187.637	23.62	6.73	30.35	60.00	29.65	Average
4	3187.637	36.24	6.73	42.97	80.00	37.03	Peak
5	4935.987	20.81	11.21	32.02	60.00	27.98	Average
6	4935.987	33.73	11.21	44.94	80.00	35.06	Peak

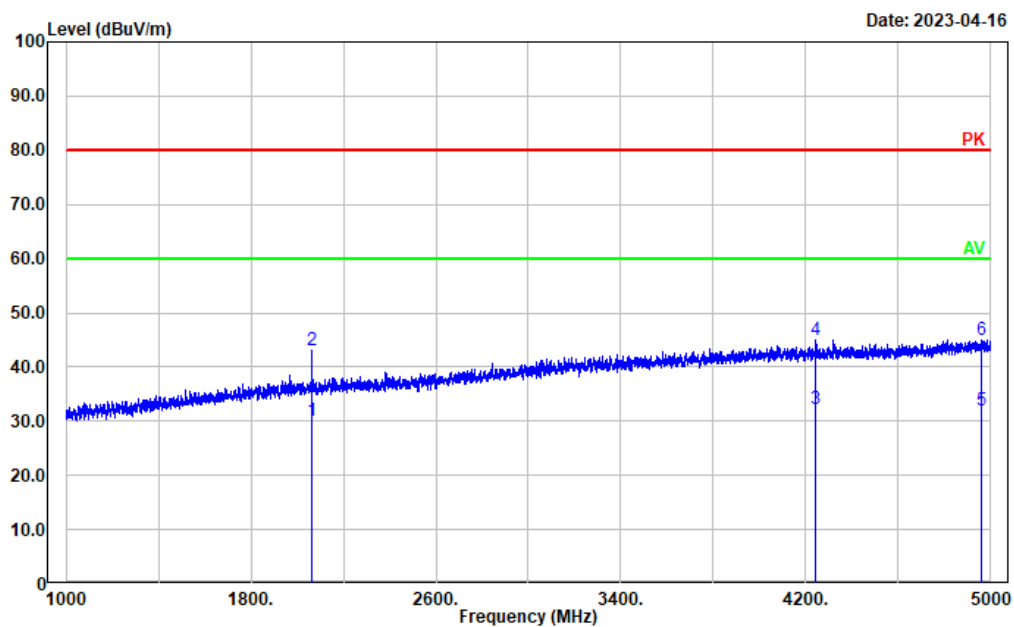
Test Mode: M2 Operation from power #2
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1499.300	24.63	-0.47	24.16	60.00	35.84	Average
2	1499.300	37.27	-0.47	36.80	80.00	43.20	Peak
3	2062.613	23.83	2.54	26.37	60.00	33.63	Average
4	2062.613	36.98	2.54	39.52	80.00	40.48	Peak
5	4438.288	22.53	9.88	32.41	60.00	27.59	Average
6	4438.288	36.00	9.88	45.88	80.00	34.12	Peak

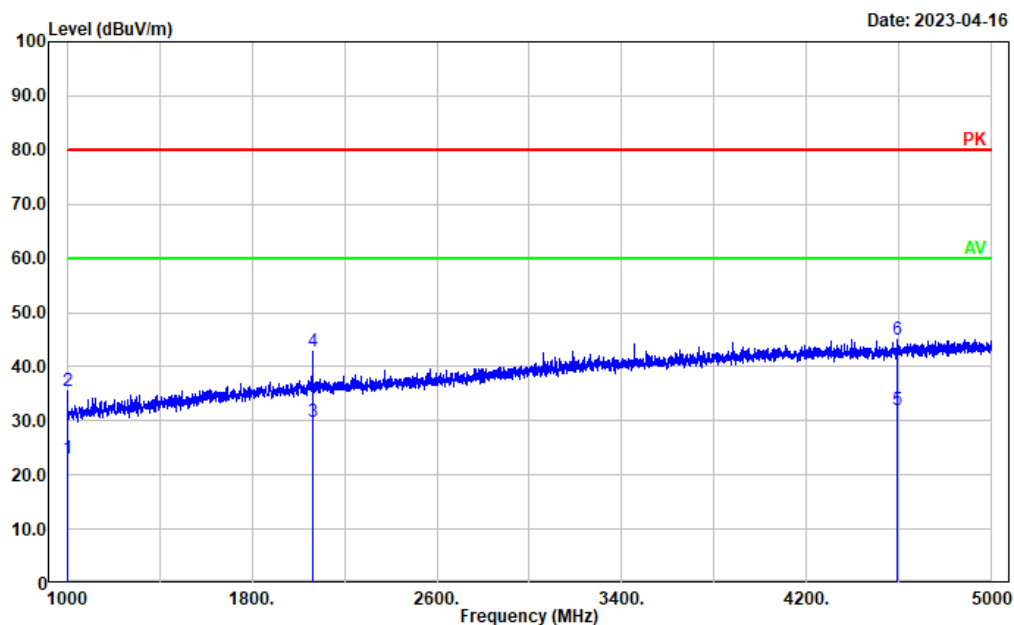
M3:

Test Mode: M3 Operation from adapter
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2062.613	27.58	2.54	30.12	60.00	29.88	Average
2	2062.613	40.57	2.54	43.11	80.00	36.89	Peak
3	4244.649	22.49	9.71	32.20	60.00	27.80	Average
4	4244.649	35.22	9.71	44.93	80.00	35.07	Peak
5	4962.393	20.67	11.23	31.90	60.00	28.10	Average
6	4962.393	33.78	11.23	45.01	80.00	34.99	Peak

Test Mode: M3 Operation from adapter
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	1000.000	25.66	-2.72	22.94	60.00	37.06	Average
2	1000.000	38.11	-2.72	35.39	80.00	44.61	Peak
3	2062.613	27.36	2.54	29.90	60.00	30.10	Average
4	2062.613	40.41	2.54	42.95	80.00	37.05	Peak
5	4593.519	21.73	10.35	32.08	60.00	27.92	Average
6	4593.519	34.62	10.35	44.97	80.00	35.03	Peak

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