



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

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

Address: 10/F, No.56 Guanri Road, Software Park II, Xiamen 361009, China

FCC ID: 2AHCR-X933H

Product Name: SmartPanel

Model Number: X933H

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: CR22050030-00C

Date Of Issue: 2022-09-02

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
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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:	SmartPanel
EUT Model:	X933H
Highest Operation Frequency:	2480 MHz
Rated Input Voltage:	DC 12V from DC Port or DC 48V from PoE
Serial Number:	CR22050030-RF-S1
EUT Received Date:	2022.5.28
EUT Received Status:	Good

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

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 1(M1): Operating- PoE power mode Test Mode 2(M2): Operating-Adapter power mode Operating: EUT transmitting and receiving data with Laptop and SIP Video Phone Terminal
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Huntkey	Adapter	HKA01105021-XE	0D1805002143
DELL	Laptop	E6410	GMLGPM1
AKUVOX	SIP Video Phone Terminal	AIO-211	J5ZPL85148360
TaoTimeClub	Load	100W40RJ	100W40RJ
TP-link	PoE Adapter	TL-SF1005P	1167604001685

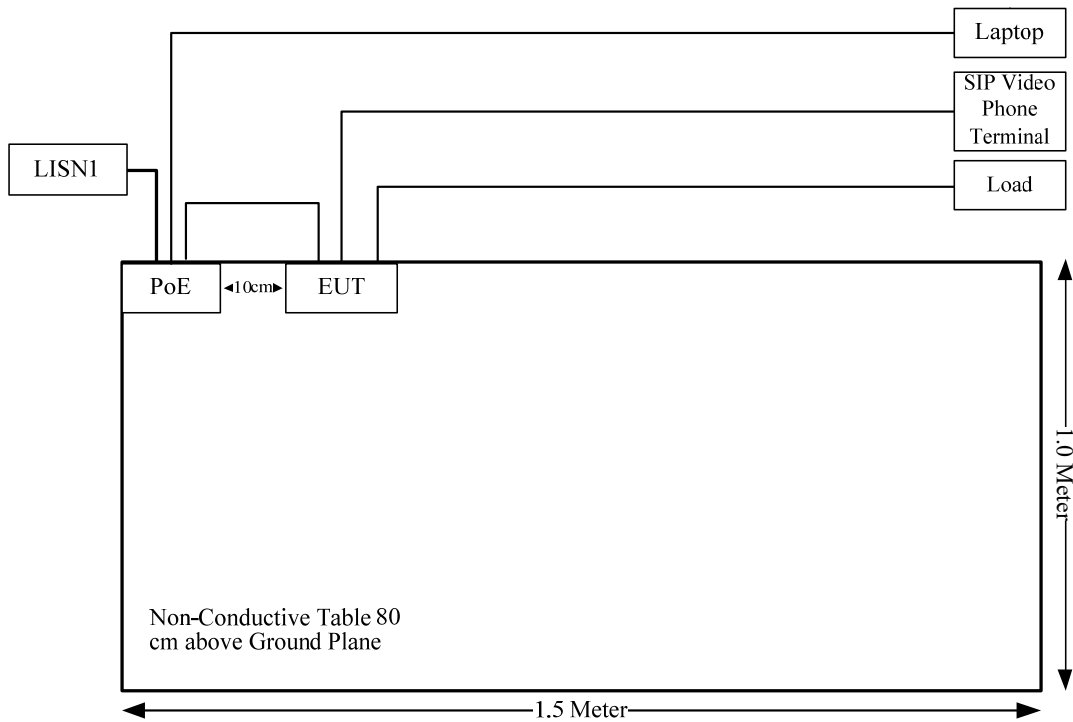
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Signal Cable	No	No	10	EUT	SIP Video Phone Terminal
Signal Cable	No	No	10	EUT	Load
RJ45 Cable	No	No	3	POE	EUT
RJ45 Cable	No	No	10	EUT/PoE	Laptop
Power Line	No	No	1.5	Adapter	EUT

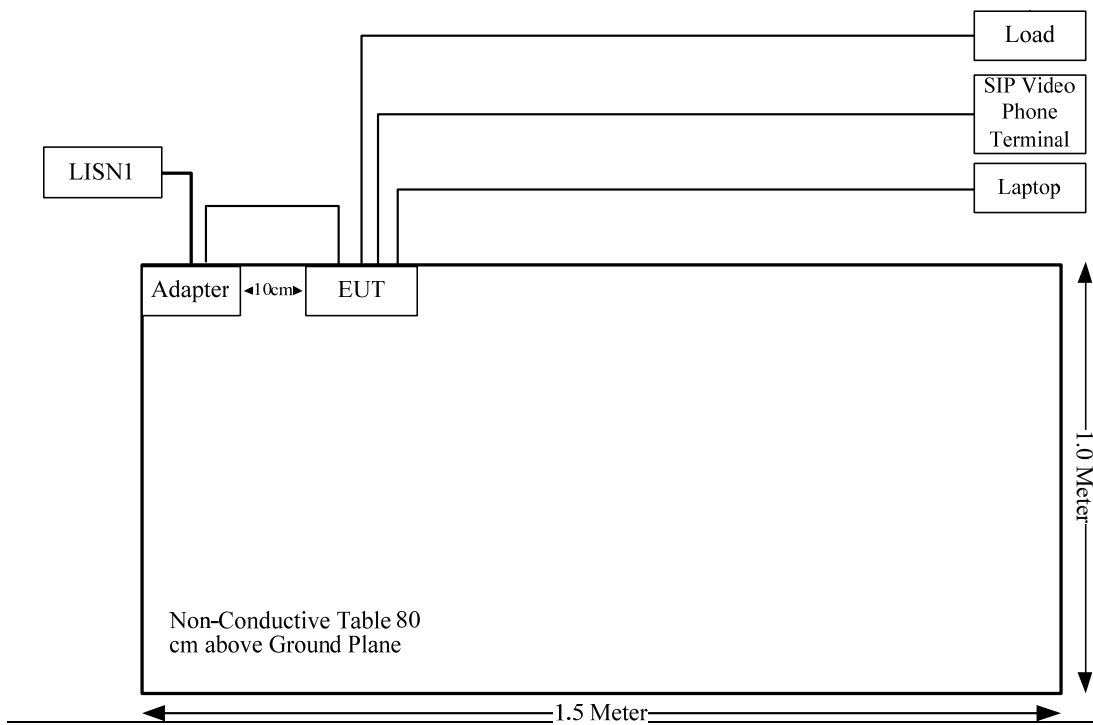
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:

PoE power mode:

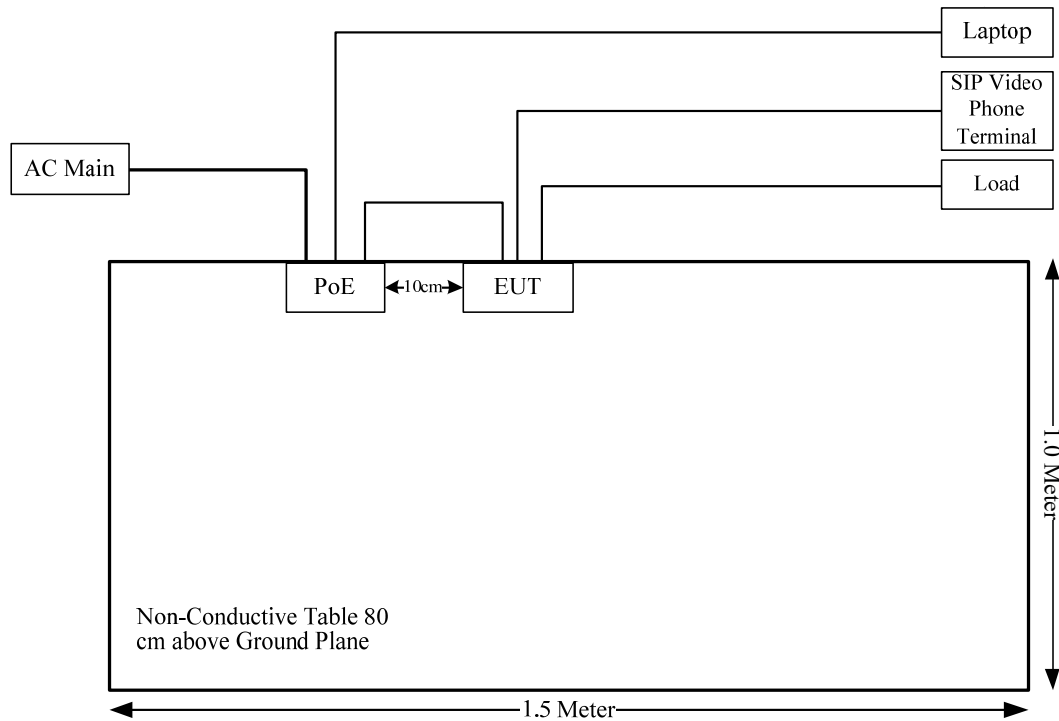


Adapter power mode:

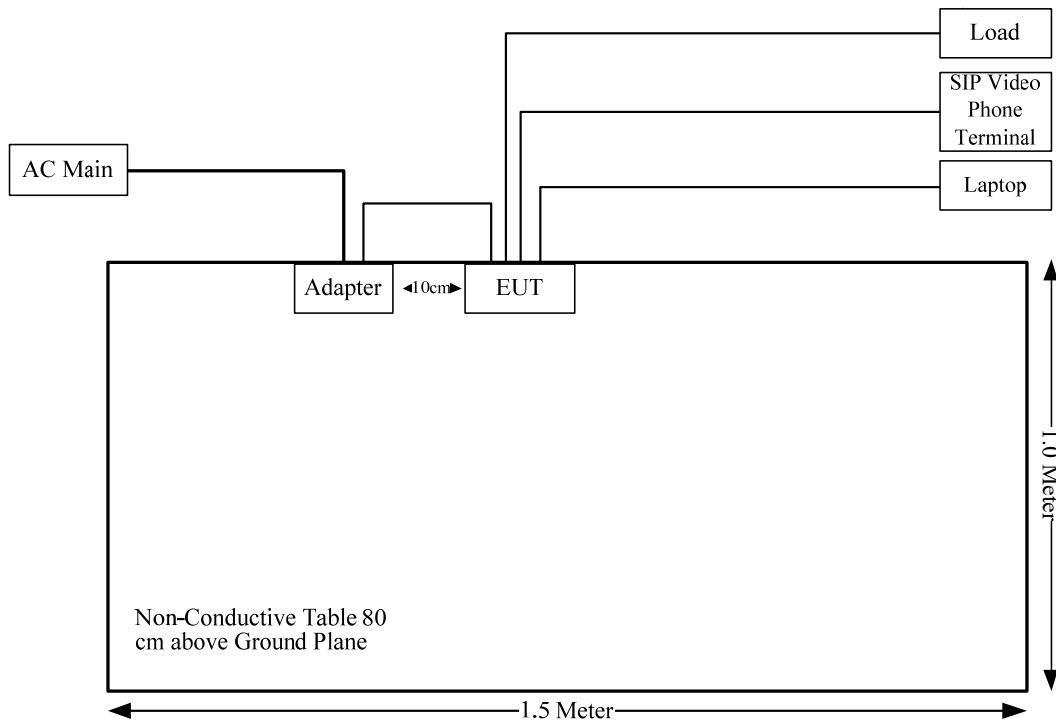


Spurious Emissions:

PoE power mode:



Adapter power 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)

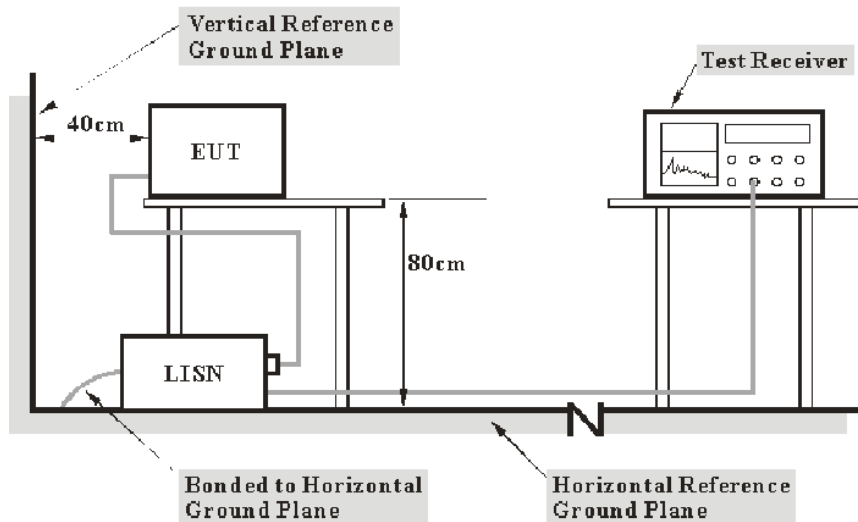
2. SUMMARY OF TEST RESULTS

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

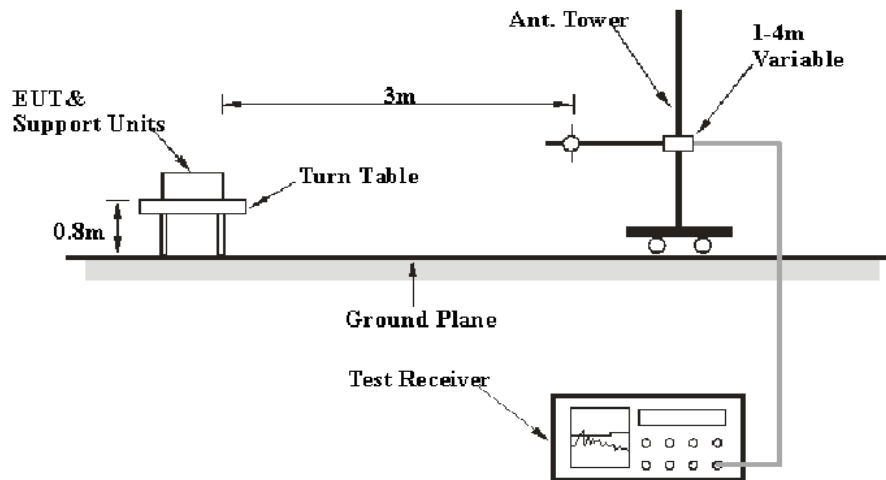
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

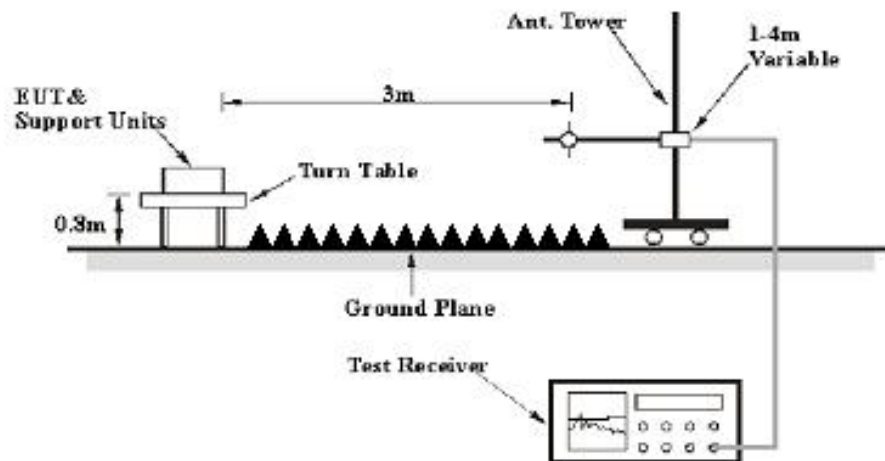
3.2 Radiation Spurious Emissions

3.2.1 EUT Setup

Below 1GHz:



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	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:	CR22050030-RF-S1	Test Date:	2022-08-08
Test Site:	CE	Test Mode:	M1&M2
Tester:	Nick Tang	Test Result:	Pass

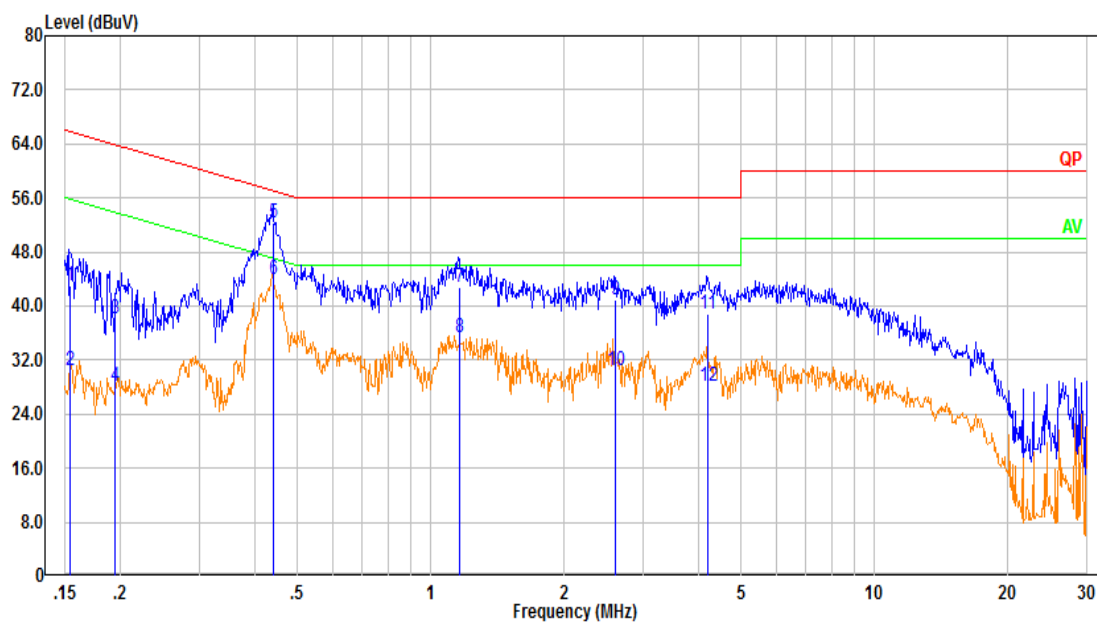
Environmental Conditions:

Temperature: (°C)	28.2	Relative Humidity: (%)	73	ATM Pressure: (kPa)	100
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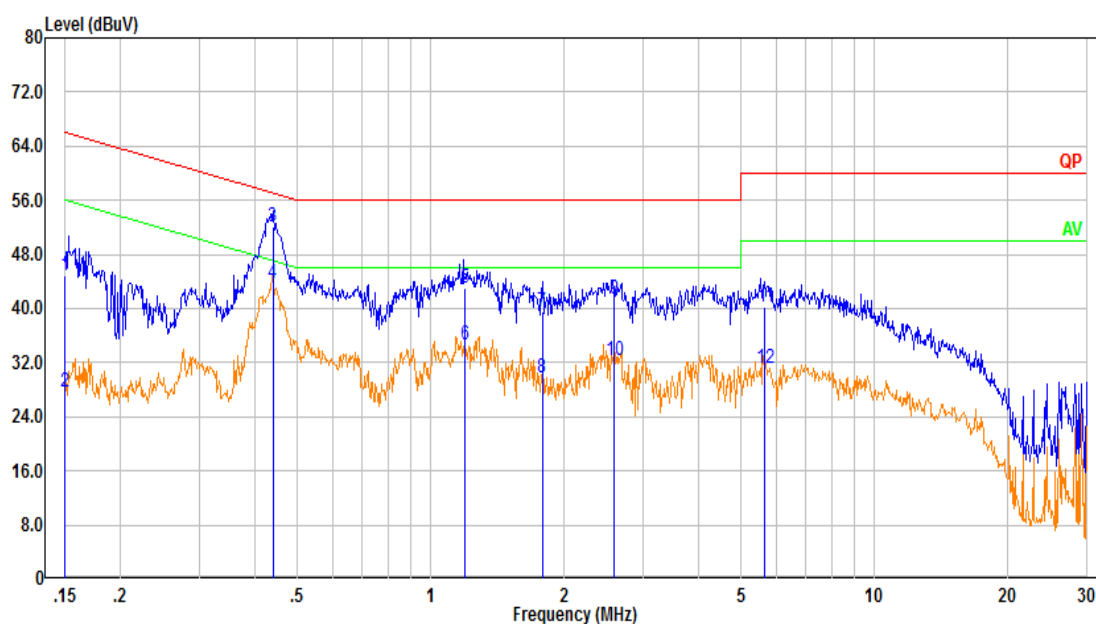
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
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

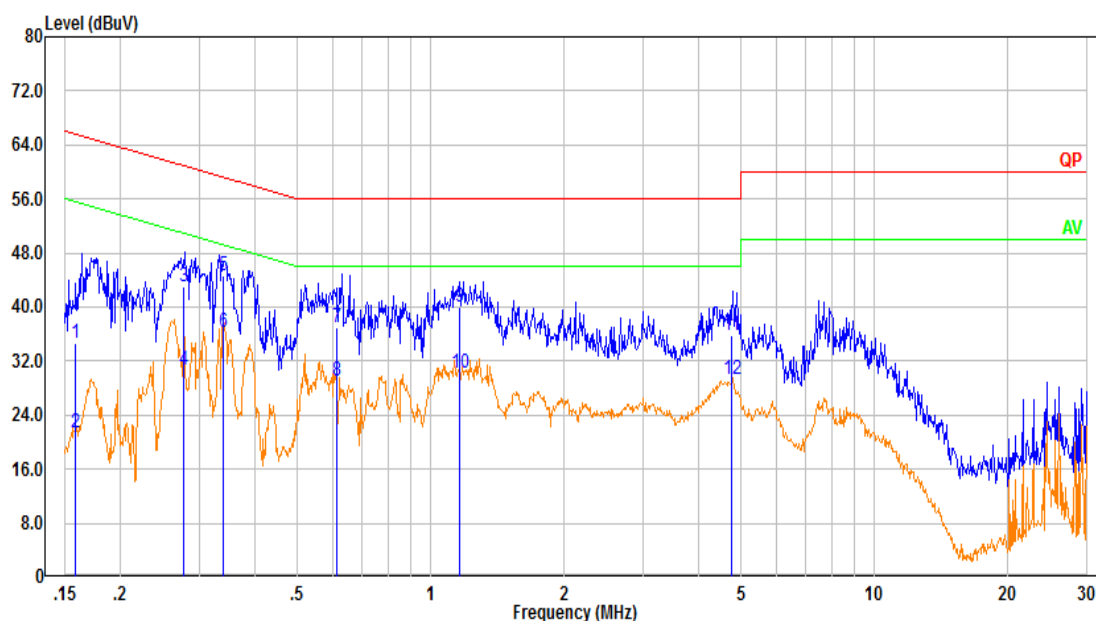
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

M1:**Line:**

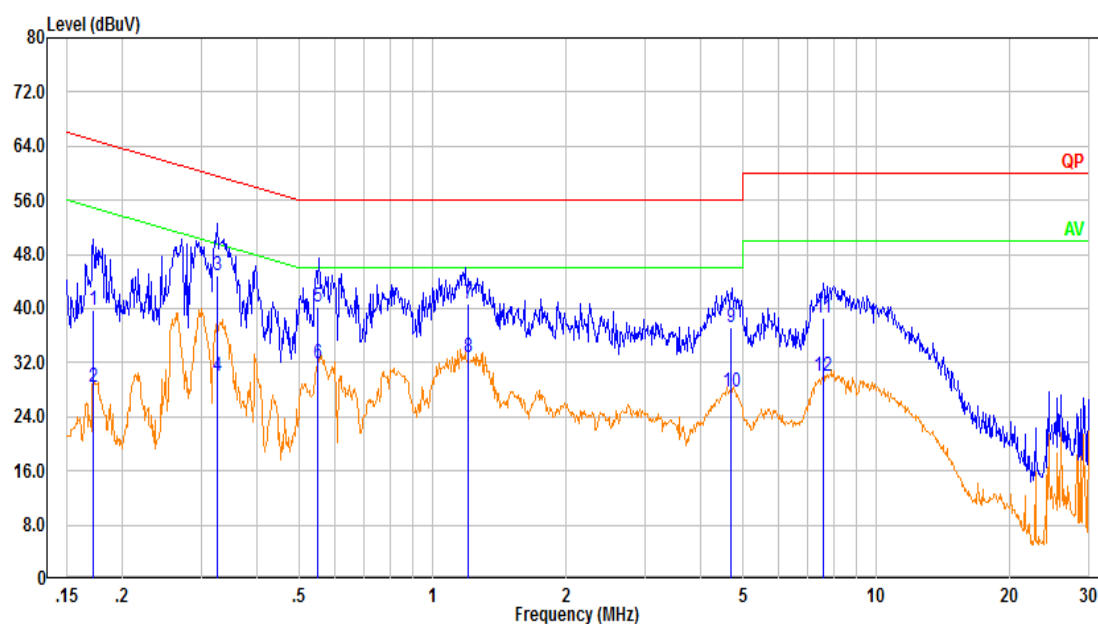
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.153	33.40	9.61	43.01	65.82	22.81	QP
2	0.153	20.76	9.61	30.37	55.82	25.45	Average
3	0.195	28.53	9.61	38.14	63.84	25.70	QP
4	0.195	18.53	9.61	28.14	53.84	25.70	Average
5	0.442	42.75	9.61	52.36	57.03	4.67	QP
6	0.442	34.35	9.61	43.96	47.03	3.07	Average
7	1.164	33.28	9.62	42.90	56.00	13.10	QP
8	1.164	25.74	9.62	35.36	46.00	10.64	Average
9	2.599	31.18	9.64	40.82	56.00	15.18	QP
10	2.599	20.92	9.64	30.56	46.00	15.44	Average
11	4.205	29.15	9.65	38.80	56.00	17.20	QP
12	4.205	18.53	9.65	28.19	46.00	17.81	Average

Neutral:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	35.22	9.61	44.83	66.00	21.17	QP
2	0.150	18.04	9.61	27.65	56.00	28.35	Average
3	0.440	42.47	9.61	52.08	57.06	4.98	QP
4	0.440	34.17	9.61	43.78	47.06	3.28	Average
5	1.191	33.40	9.62	43.02	56.00	12.98	QP
6	1.191	25.08	9.62	34.70	46.00	11.30	Average
7	1.782	29.92	9.63	39.54	56.00	16.46	QP
8	1.782	20.10	9.63	29.73	46.00	16.27	Average
9	2.592	31.69	9.64	41.33	56.00	14.67	QP
10	2.592	22.70	9.64	32.34	46.00	13.66	Average
11	5.663	30.51	9.66	40.17	60.00	19.83	QP
12	5.663	21.51	9.66	31.17	50.00	18.83	Average

M2:**Line:**

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.158	25.00	9.61	34.61	65.55	30.94	QP
2	0.158	11.90	9.61	21.51	55.55	34.04	Average
3	0.277	33.44	9.61	43.05	60.90	17.86	QP
4	0.277	21.10	9.61	30.71	50.90	20.20	Average
5	0.339	35.04	9.61	44.65	59.22	14.57	QP
6	0.339	26.77	9.61	36.38	49.22	12.84	Average
7	0.615	27.44	9.62	37.06	56.00	18.94	QP
8	0.615	19.48	9.62	29.10	46.00	16.90	Average
9	1.162	30.40	9.62	40.02	56.00	15.98	QP
10	1.162	20.64	9.62	30.27	46.00	15.73	Average
11	4.758	26.25	9.66	35.91	56.00	20.09	QP
12	4.758	19.62	9.66	29.27	46.00	16.73	Average

Neutral:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.172	30.15	9.61	39.76	64.88	25.12	QP
2	0.172	18.71	9.61	28.32	54.88	26.56	Average
3	0.327	35.17	9.61	44.78	59.54	14.76	QP
4	0.327	20.31	9.61	29.92	49.54	19.62	Average
5	0.551	30.55	9.62	40.17	56.00	15.83	QP
6	0.551	22.25	9.62	31.86	46.00	14.14	Average
7	1.202	31.15	9.62	40.77	56.00	15.23	QP
8	1.202	23.18	9.62	32.80	46.00	13.20	Average
9	4.699	27.53	9.66	37.19	56.00	18.81	QP
10	4.699	17.98	9.66	27.64	46.00	18.36	Average
11	7.566	28.92	9.67	38.58	60.00	21.42	QP
12	7.566	20.22	9.67	29.89	50.00	20.11	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR22050030-RF-S1	Test Date:	2022-08-26(Below 1GHz) 2022-07-28(Above 1GHz)
Test Site:	966-2, 966-1	Test Mode:	M1&M2
Tester:	Carl Xue ,Nick Tang	Test Result:	Pass

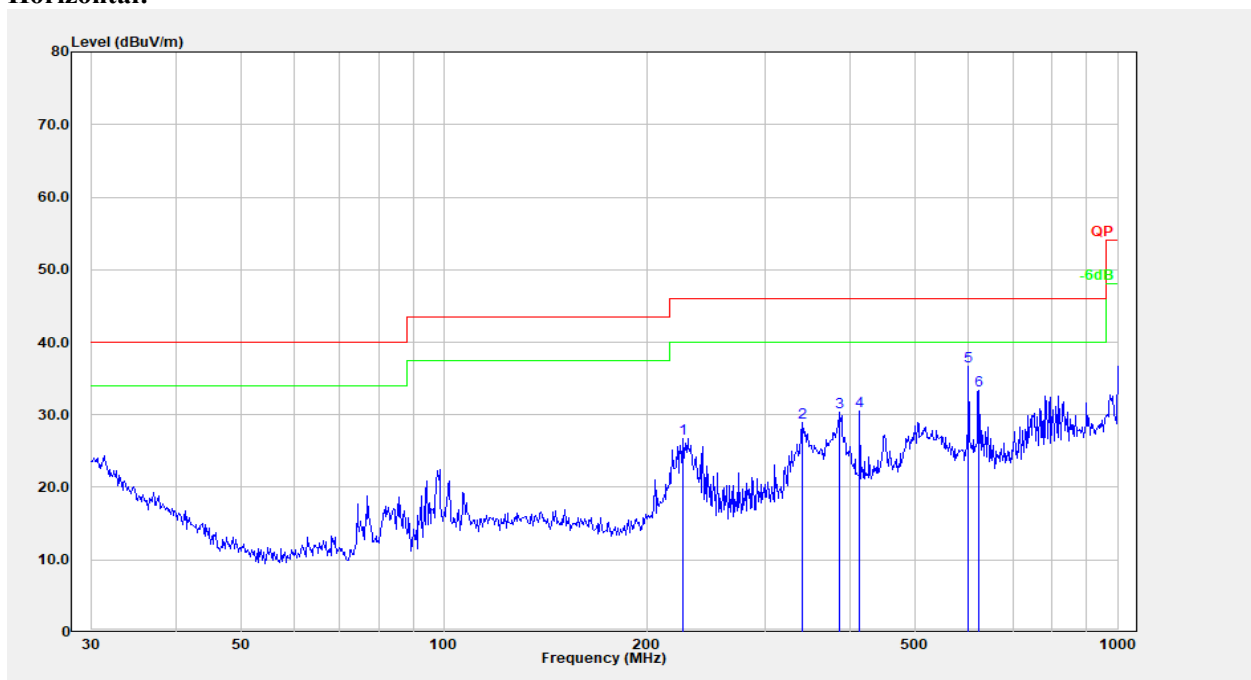
Environmental Conditions:

Temperature: (°C)	22.5~27.2	Relative Humidity: (%)	56~61	ATM Pressure: (kPa)	100.1~100.2
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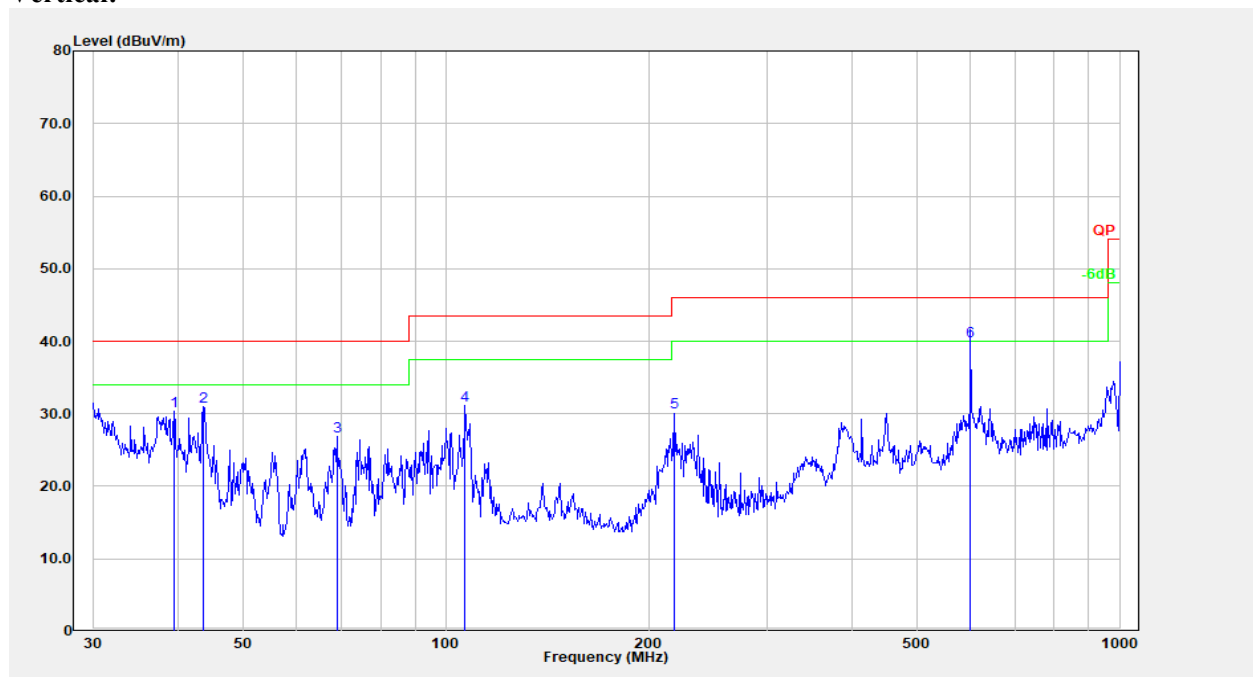
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
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
Above 1GHz					
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	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
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07
Audix	Test Software	E3	201021 (V9)	N/A	N/A

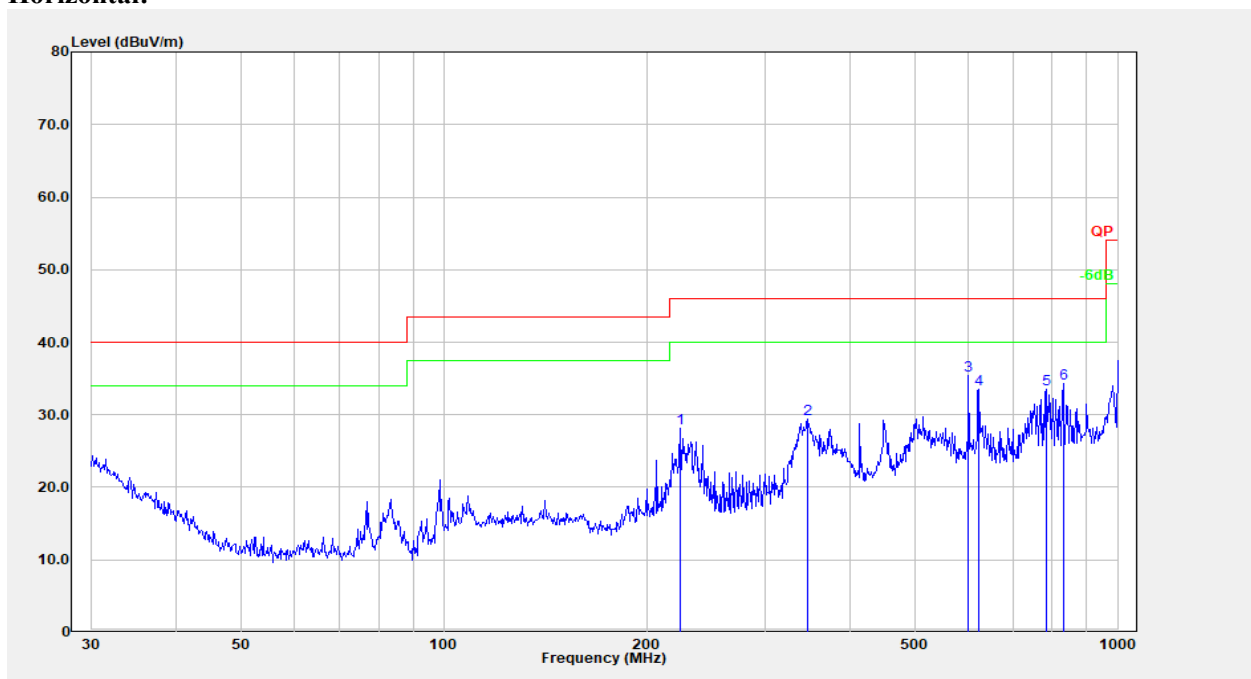
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

1) 30MHz-1GHz:**M1:****Horizontal:**

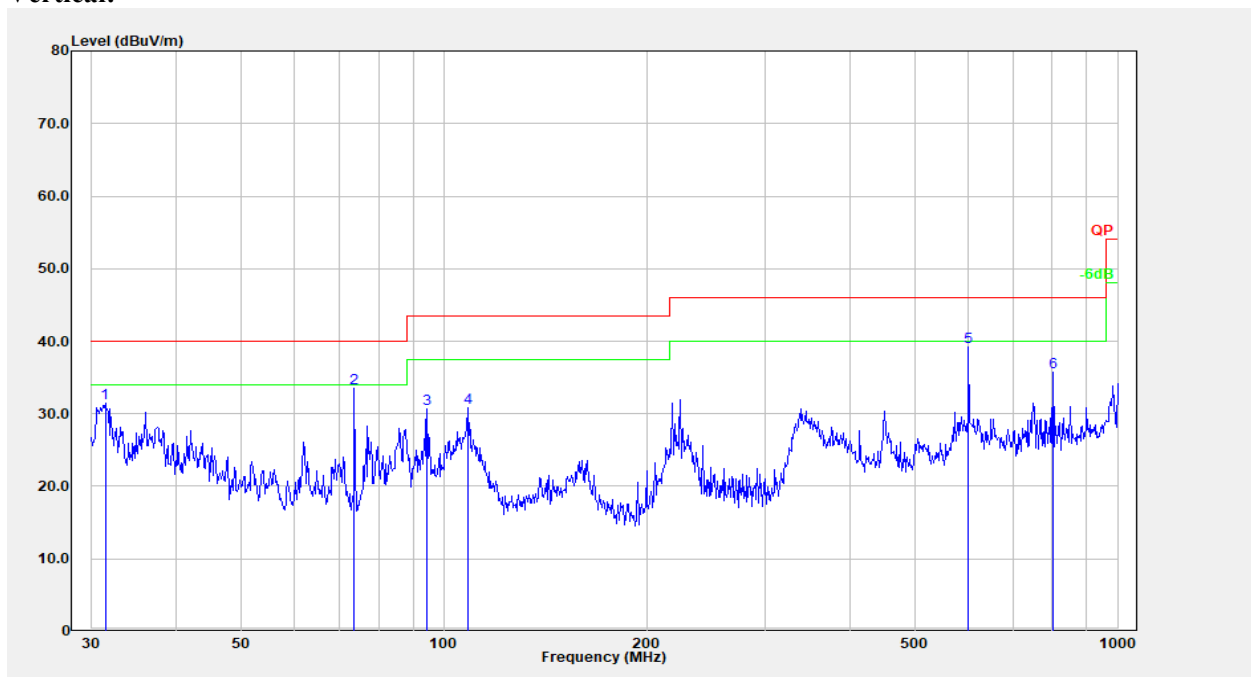
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	226.099	39.82	-13.06	26.76	46.00	19.24	Peak
2	340.782	39.23	-10.23	29.00	46.00	17.00	Peak
3	386.634	39.62	-9.21	30.41	46.00	15.59	Peak
4	414.722	38.90	-8.40	30.50	46.00	15.50	Peak
5	601.427	41.92	-5.27	36.65	46.00	9.35	Peak
6	622.890	38.29	-4.89	33.40	46.00	12.60	Peak

Vertical:

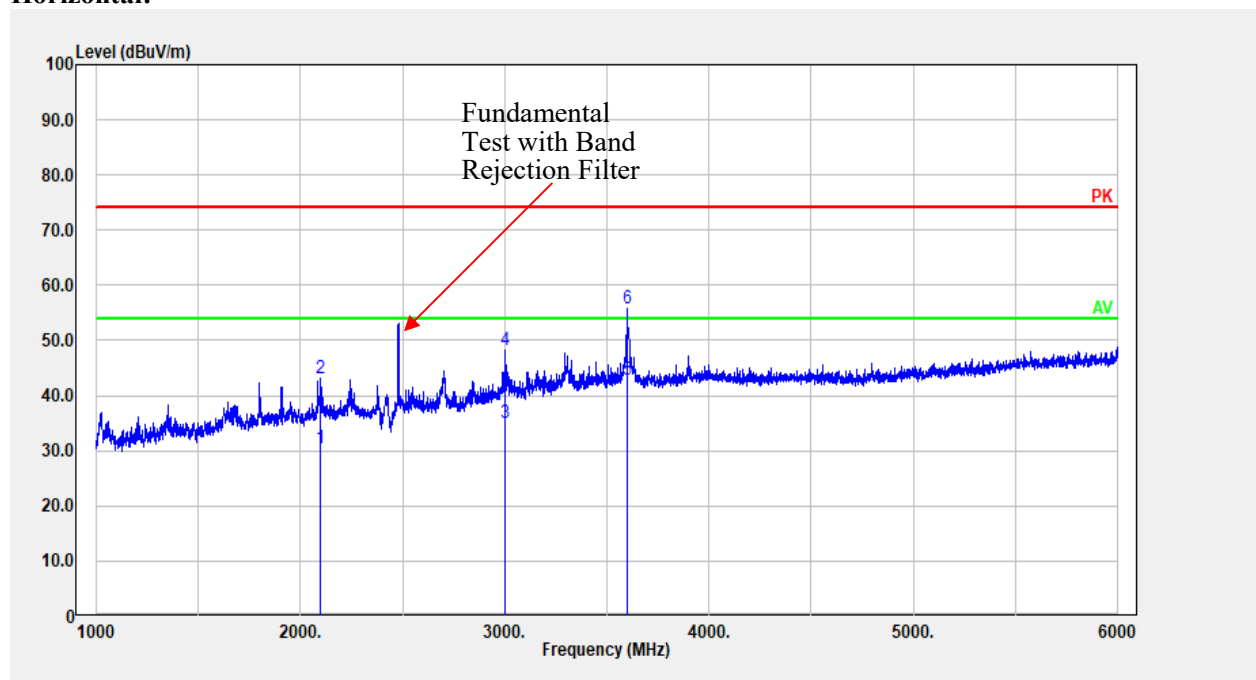
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.437	41.50	-11.07	30.43	40.00	9.57	Peak
2	43.659	44.65	-13.70	30.95	40.00	9.05	Peak
3	68.872	43.77	-16.85	26.92	40.00	13.08	Peak
4	106.759	44.37	-13.22	31.15	43.50	12.35	Peak
5	218.309	43.03	-12.91	30.12	46.00	15.88	Peak
6	600.249	45.30	-5.33	39.97	46.00	6.03	QP

M2:**Horizontal:**

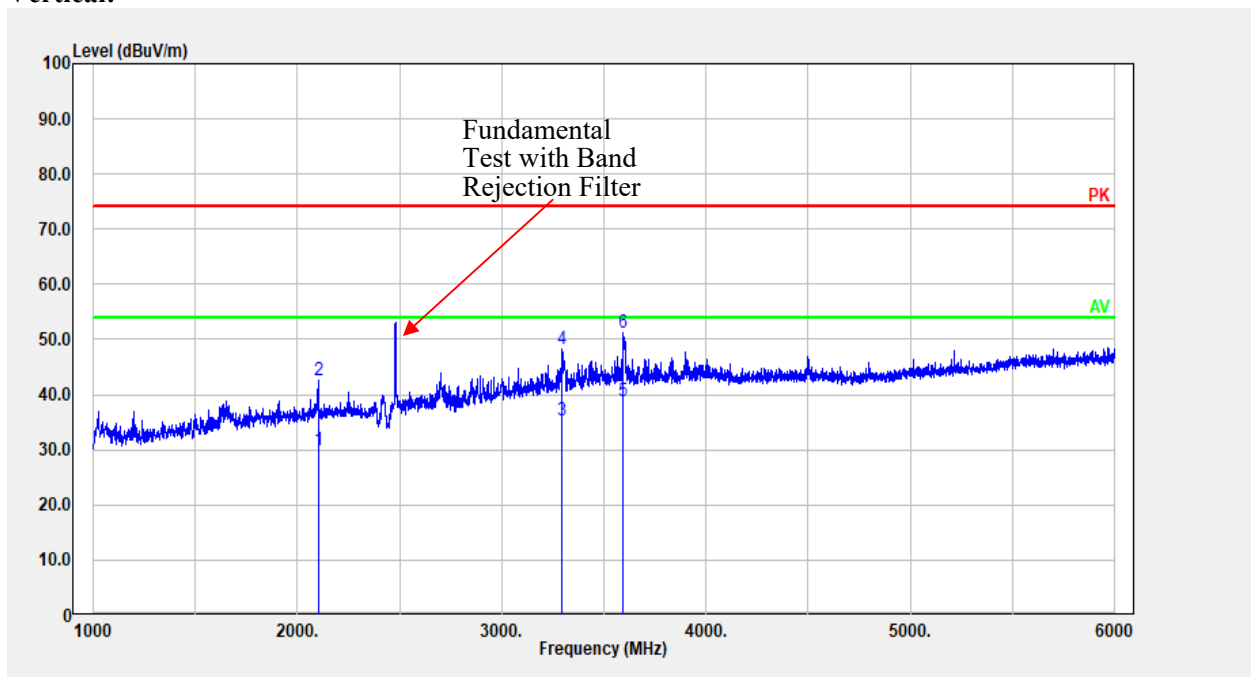
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	224.519	41.10	-13.03	28.07	46.00	17.93	Peak
2	346.809	39.69	-10.25	29.44	46.00	16.56	Peak
3	601.427	40.73	-5.27	35.45	46.00	10.55	Peak
4	622.890	38.46	-4.89	33.57	46.00	12.43	Peak
5	785.093	36.09	-2.54	33.55	46.00	12.45	Peak
6	830.400	36.20	-1.85	34.35	46.00	11.65	Peak

Vertical:

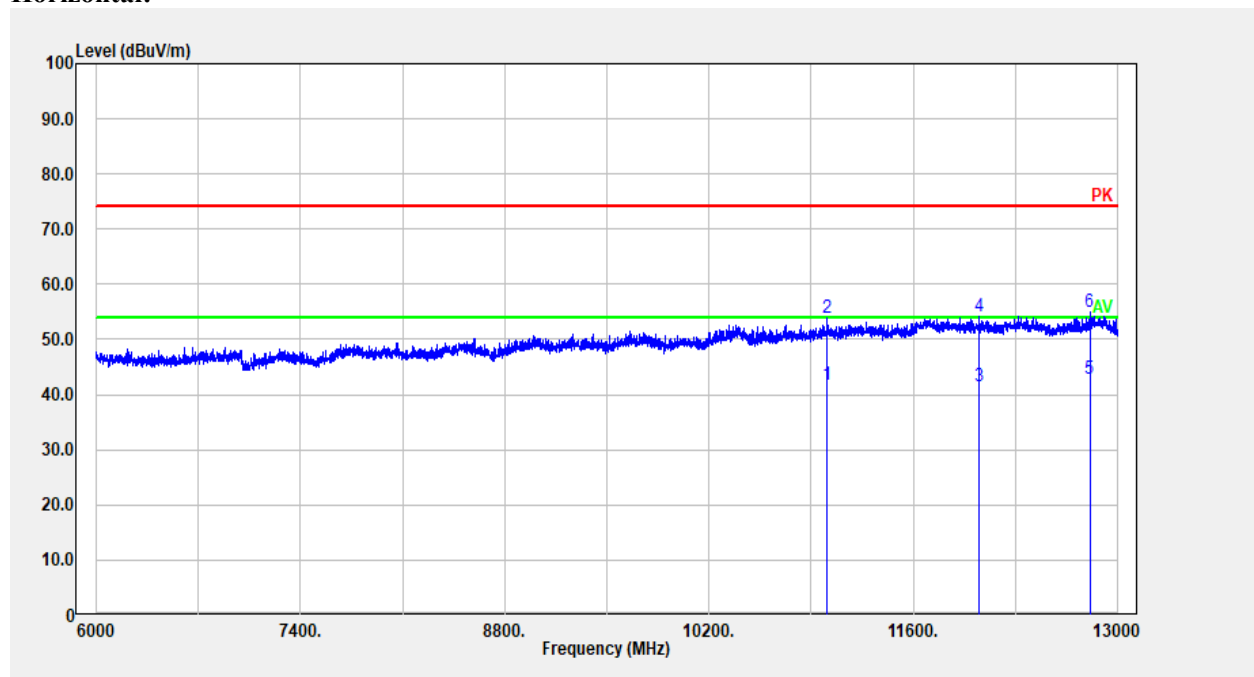
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.399	36.31	-4.86	31.45	40.00	8.55	Peak
2	73.617	50.60	-17.08	33.52	40.00	6.48	Peak
3	94.428	46.77	-16.04	30.73	43.50	12.77	Peak
4	108.647	43.63	-12.82	30.81	43.50	12.69	Peak
5	601.427	44.49	-5.27	39.22	46.00	6.78	Peak
6	801.786	38.22	-2.45	35.77	46.00	10.23	Peak

2) Above 1GHz:**M1:****Horizontal:**

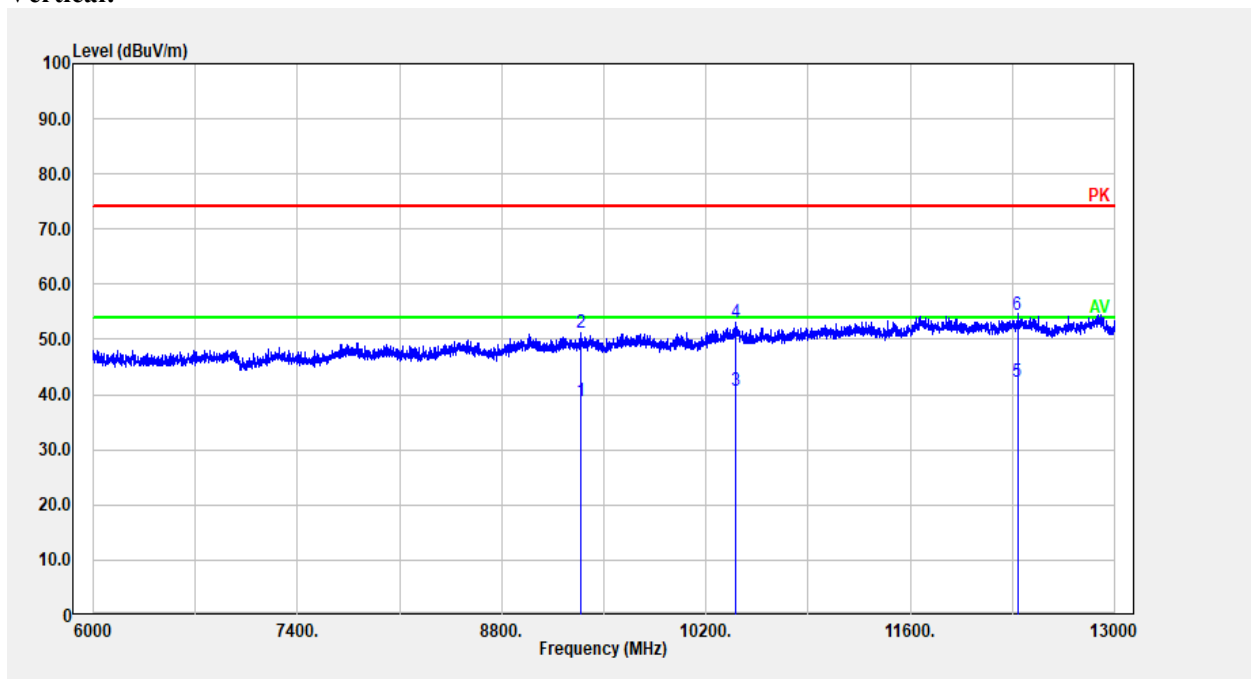
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2098.220	27.89	2.69	30.58	54.00	23.42	Average
2	2098.220	40.53	2.69	43.22	74.00	30.78	Peak
3	3003.401	28.74	6.28	35.02	54.00	18.98	Average
4	3003.401	41.86	6.28	48.14	74.00	25.86	Peak
5	3599.520	33.86	9.05	42.91	54.00	11.09	Average
6	3599.520	46.72	9.05	55.77	74.00	18.23	Peak

Vertical:

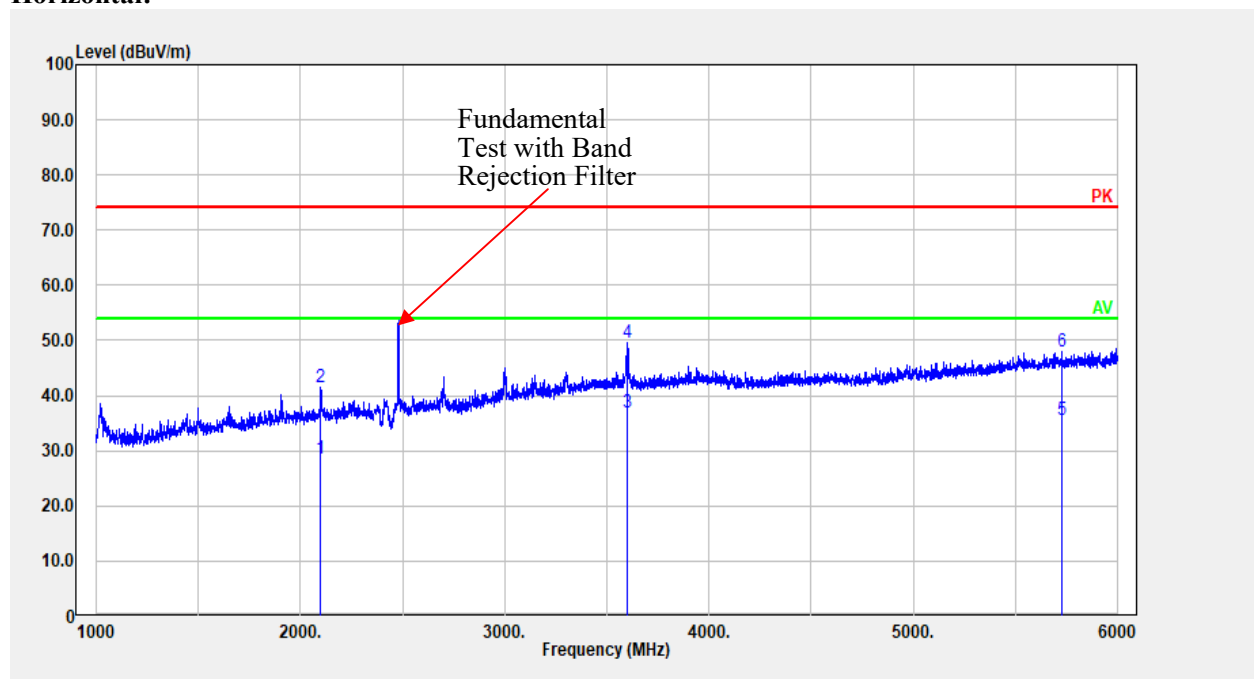
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2101.220	27.18	2.70	29.88	54.00	24.12	Average
2	2101.220	39.96	2.70	42.66	74.00	31.34	Peak
3	3295.459	27.69	7.59	35.28	54.00	18.72	Average
4	3295.459	40.68	7.59	48.27	74.00	25.73	Peak
5	3594.519	29.65	9.03	38.68	54.00	15.32	Average
6	3594.519	42.31	9.03	51.34	74.00	22.66	Peak

Horizontal:

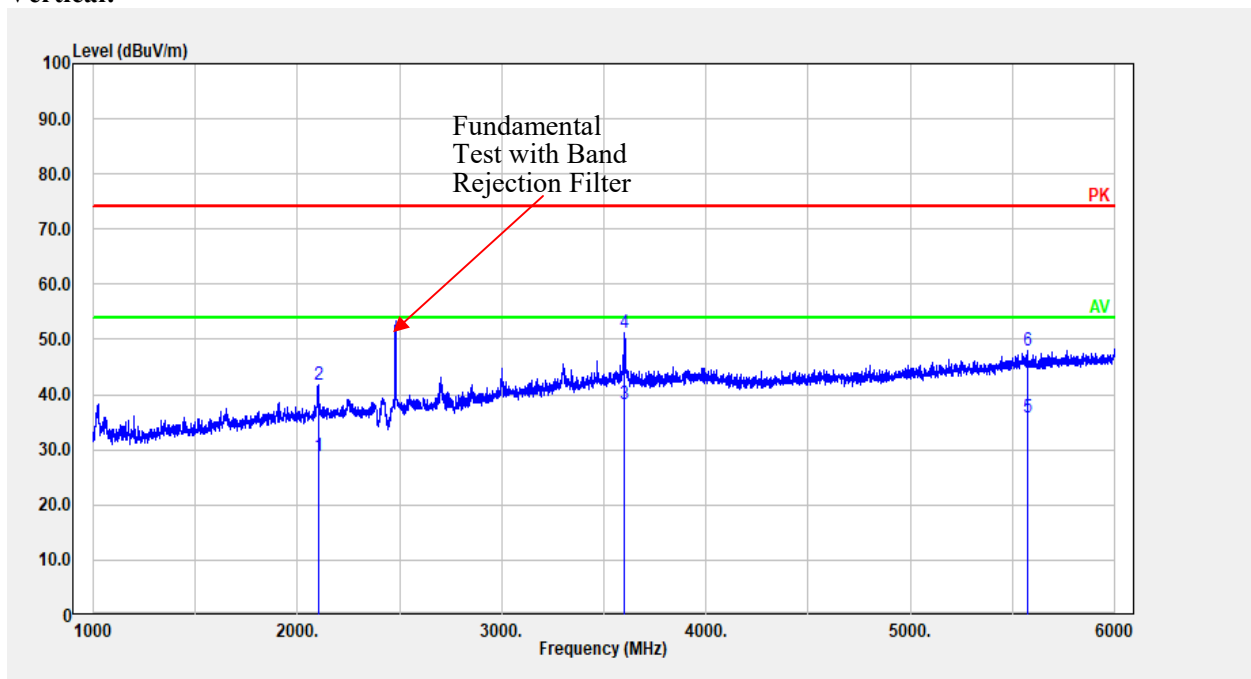
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11007.400	22.34	19.37	41.71	54.00	12.29	Average
2	11007.400	34.66	19.37	54.03	74.00	19.97	Peak
3	12049.210	21.24	20.36	41.60	54.00	12.40	Average
4	12049.210	33.85	20.36	54.21	74.00	19.79	Peak
5	12809.560	21.96	20.82	42.78	54.00	11.22	Average
6	12809.560	34.10	20.82	54.92	74.00	19.08	Peak

Vertical:

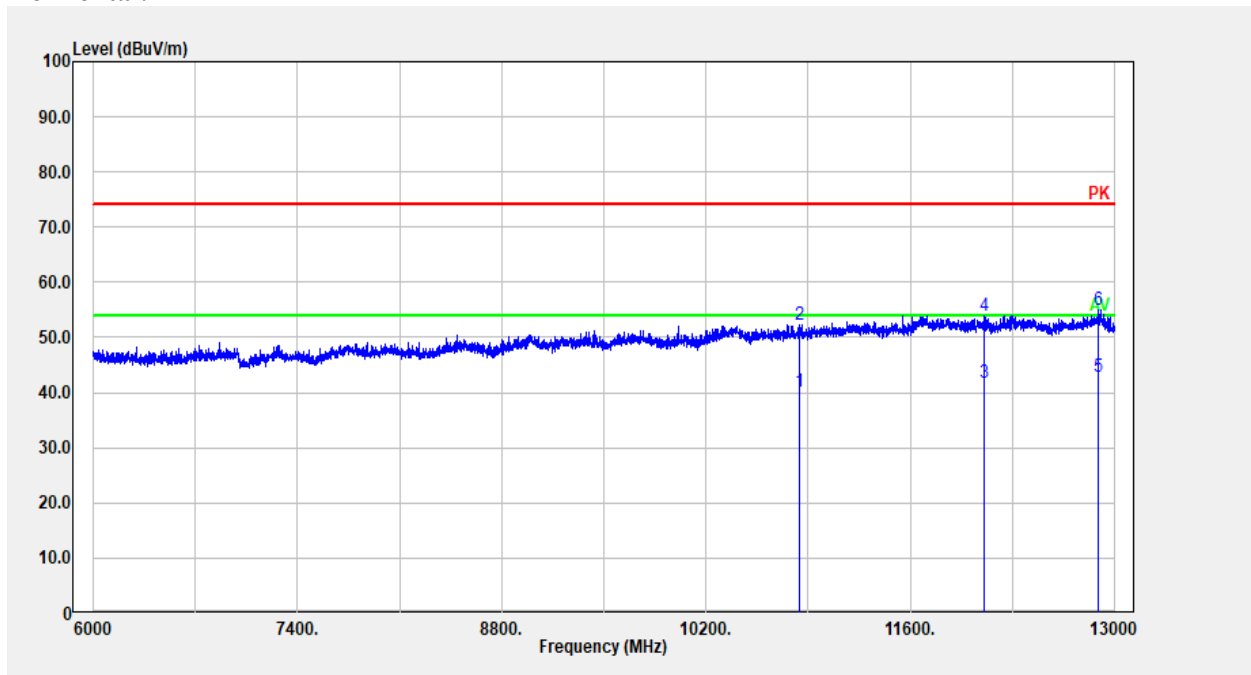
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	9343.869	21.58	17.30	38.88	54.00	15.12	Average
2	9343.869	33.81	17.30	51.11	74.00	22.89	Peak
3	10399.680	22.35	18.47	40.82	54.00	13.18	Average
4	10399.680	34.76	18.47	53.23	74.00	20.77	Peak
5	12334.870	21.72	20.53	42.25	54.00	11.75	Average
6	12334.870	34.05	20.53	54.58	74.00	19.42	Peak

M2:**Horizontal:**

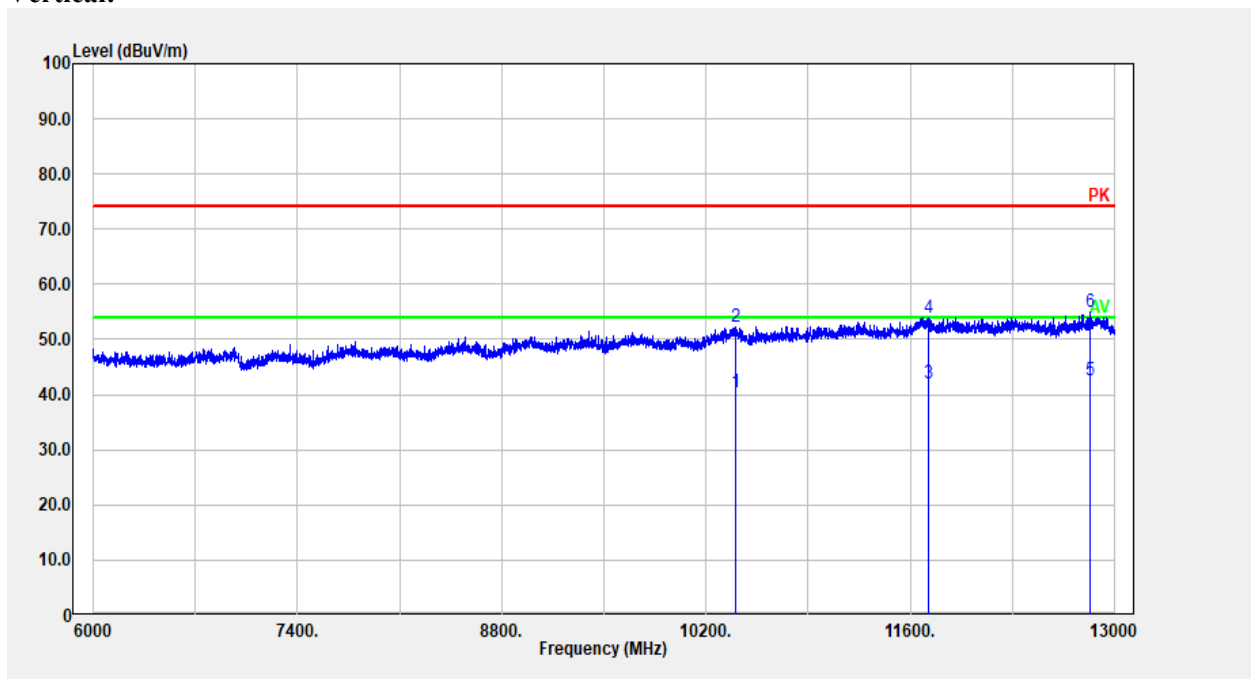
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	2099.220	25.90	2.70	28.60	54.00	25.40	Average
2	2099.220	38.87	2.70	41.57	74.00	32.43	Peak
3	3599.520	27.85	9.05	36.90	54.00	17.10	Average
4	3599.520	40.55	9.05	49.60	74.00	24.40	Peak
5	5727.946	22.68	12.99	35.67	54.00	18.33	Average
6	5727.946	34.99	12.99	47.98	74.00	26.02	Peak

Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2101.220	26.23	2.70	28.93	54.00	25.07	Average
2	2101.220	39.08	2.70	41.78	74.00	32.22	Peak
3	3599.520	29.12	9.05	38.17	54.00	15.83	Average
4	3599.520	42.07	9.05	51.12	74.00	22.88	Peak
5	5576.916	22.94	12.88	35.82	54.00	18.18	Average
6	5576.916	35.16	12.88	48.04	74.00	25.96	Peak

Horizontal:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	10836.570	21.09	18.95	40.04	54.00	13.96	Average
2	10836.570	33.45	18.95	52.40	74.00	21.60	Peak
3	12109.420	21.22	20.67	41.89	54.00	12.11	Average
4	12109.420	33.35	20.67	54.02	74.00	19.98	Peak
5	12887.980	21.25	21.49	42.74	54.00	11.26	Average
6	12887.980	33.39	21.49	54.88	74.00	19.12	Peak

Vertical:

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	10406.680	21.87	18.45	40.32	54.00	13.68	Average
2	10406.680	33.97	18.45	52.42	74.00	21.58	Peak
3	11721.540	21.52	20.43	41.95	54.00	12.05	Average
4	11721.540	33.60	20.43	54.03	74.00	19.97	Peak
5	12833.370	21.67	21.02	42.69	54.00	11.31	Average
6	12833.370	33.89	21.02	54.91	74.00	19.09	Peak

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