

FCC Test Report

Report No.: 2405W56213EA
Applicant: G-TOUCH LLC.
Address: 1750 NW 107TH Avenue, STE P-411 Miami Florida United States
Product Name: Mobile feature phone 4G-LTE
Product Model: Gravity
Multiple Models: N/A
Trade Mark: GTOUCH
FCC ID: 2AJDZGL24A
Standards: FCC CFR Title 47 Part 15B

Test Date: 2024-08-06 to 2024-08-07
Test Result: Complied
Report Date: 2024-08-23
Reviewed by:

Frank Yin

Frank Yin
Project Engineer

Approved by:

Jacob Kong

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen,
Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-08-23	Original

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1 General Information

1.1 Client Information

Applicant:	G-TOUCH LLC.
Address:	1750 NW 107TH Avenue, STE P-411 Miami Florida United States
Manufacturer:	G-TOUCH DEVICES LIMITED
Address:	Building 40 11C floor Wanghai RD, Rose Garden 2 Shekou Nanshan District Shenzhen City Guangdong China

1.2 Product Description of EUT

Sample Serial Number	2PCY-1 for CE&RE conducted test (assigned by WATC)
Sample Received Date	2024-08-01
Sample Status	Good Condition
Highest Operating Frequency [#]	2.48GHz
Power Supply	Power by battery or charging by Micro-USB
Adapter Information	Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V/500mA
Modification	Sample No Modification by the test lab

1.3 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DSS, FCC ID: 2AJDZGL24A
FCC Part 22H, 24E, Equipment Class: PCB, FCC ID: 2AJDZGL24A

1.4 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Radiated emission	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Note 1: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. Note 2: The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)		

1.5 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: ga@watc.com.cn

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. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.6 Test Methodology

FCC CFR 47 Part 15

ANSI C63.4-2014

2 Description of Measurement

2.1 Test Configuration

Test Mode:	
Mode 1:	Charging + Video playing
Mode 2:	Charging + Recording
Mode 3:	Data exchange (With PC)
Note: For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report	

2.2 Test Auxiliary Equipment

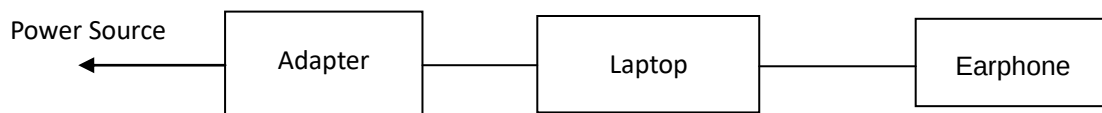
Manufacturer	Description	Model	Serial Number
Dell	Notebook	unknown	unknown
unknown	TF Card	unknown	unknown
unknown	Earphone	unknown	unknown
TP-link	Router	unknown	unknown

2.3 Interconnecting Cables

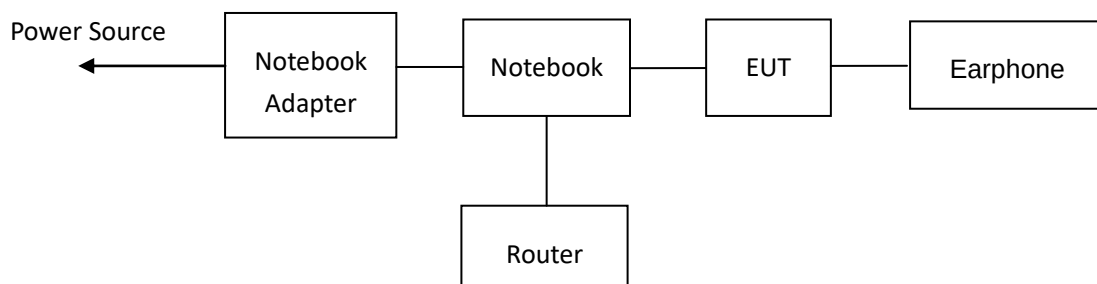
Manufacturer	Description	From	To
G-TOUCH	DC Cable	Adapter	EUT
Unknown	USB Cable	EUT	Notebook
Dell	AC Cable	Notebook adapter	Power Source
Dell	DC Cable	Notebook adapter	Notebook
Unknown	RJ45 Cable	Unknown	Unknown

2.4 Block Diagram of Connection between EUT and AE

For Mode 1&2:

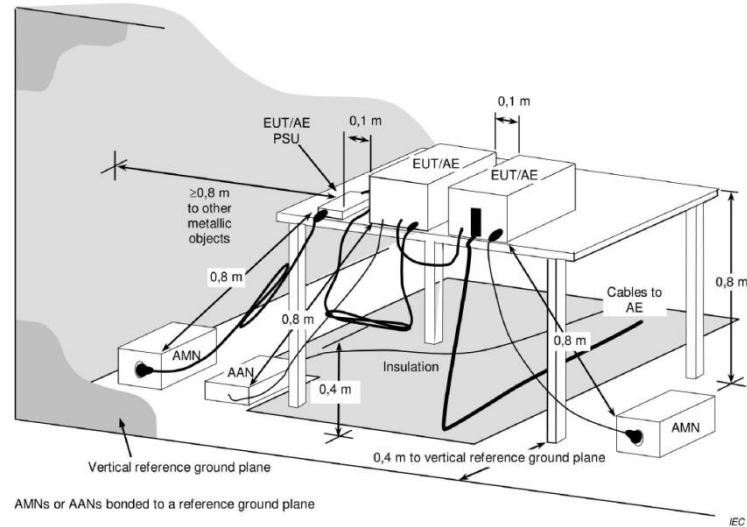


For Mode 3:



2.5 Test Setup

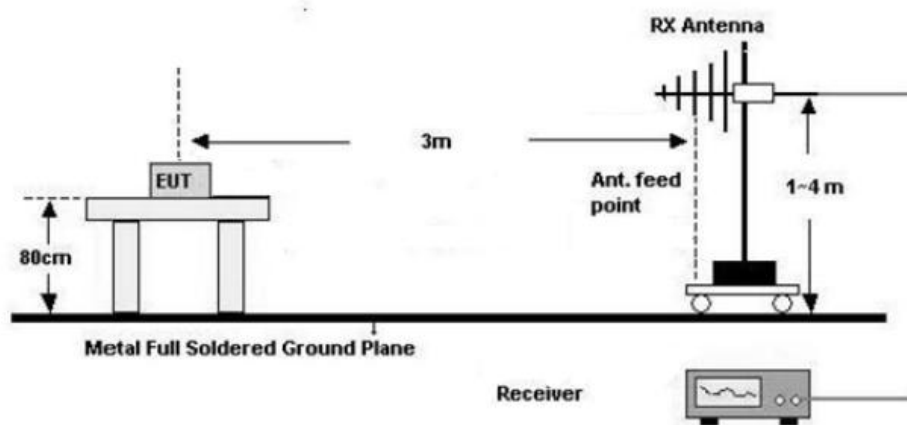
1) Conducted emission measurement:



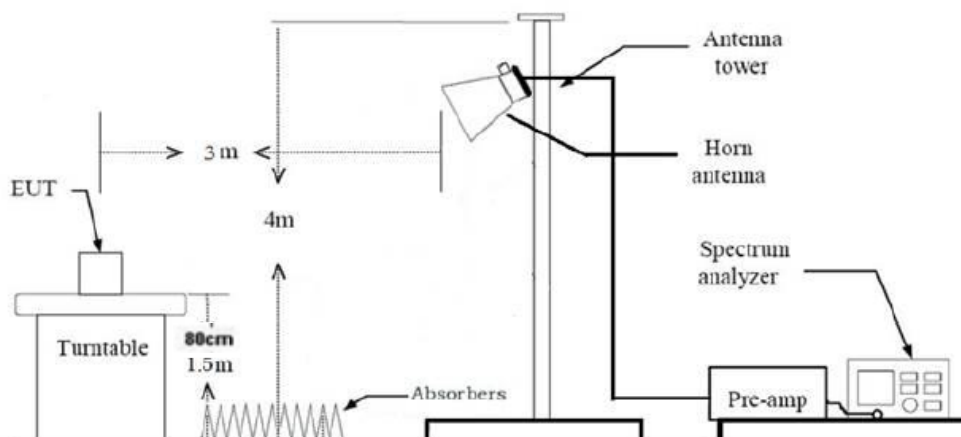
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

30MHz-1GHz (3m SAC)



Above 1GHz(3m FAC)



2.6 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

b) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.4-2014 Section 7
Radiated emission	ANSI C63.4-2014 Section 8

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/6	2025/6/5
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
COM-POWER	preamplifier	PAM-118A	18040152	2024/6/4	2025/6/3
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
N/A	Coaxial Cable	N/A	NO.9	2024/6/4	2025/6/3
N/A	Coaxial Cable	N/A	NO.14	2024/6/4	2025/6/3
N/A	Coaxial Cable	N/A	NO.15	2024/6/4	2025/6/3
N/A	Coaxial Cable	N/A	NO.16	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
FCC §15.107	AC Line Conducted Emissions	Compliance
FCC §15.109	Radiated emission	Compliance

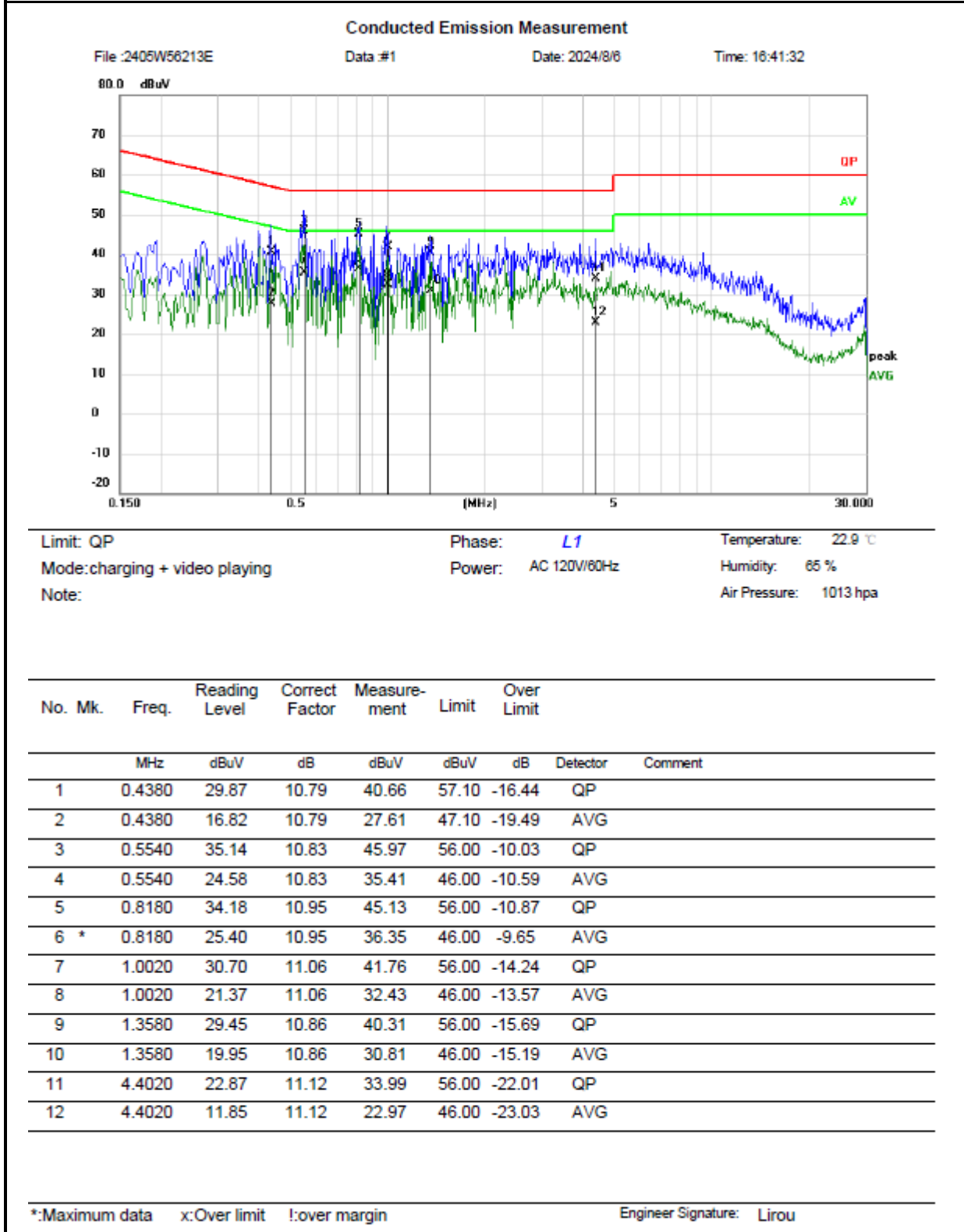
3.2 Limit

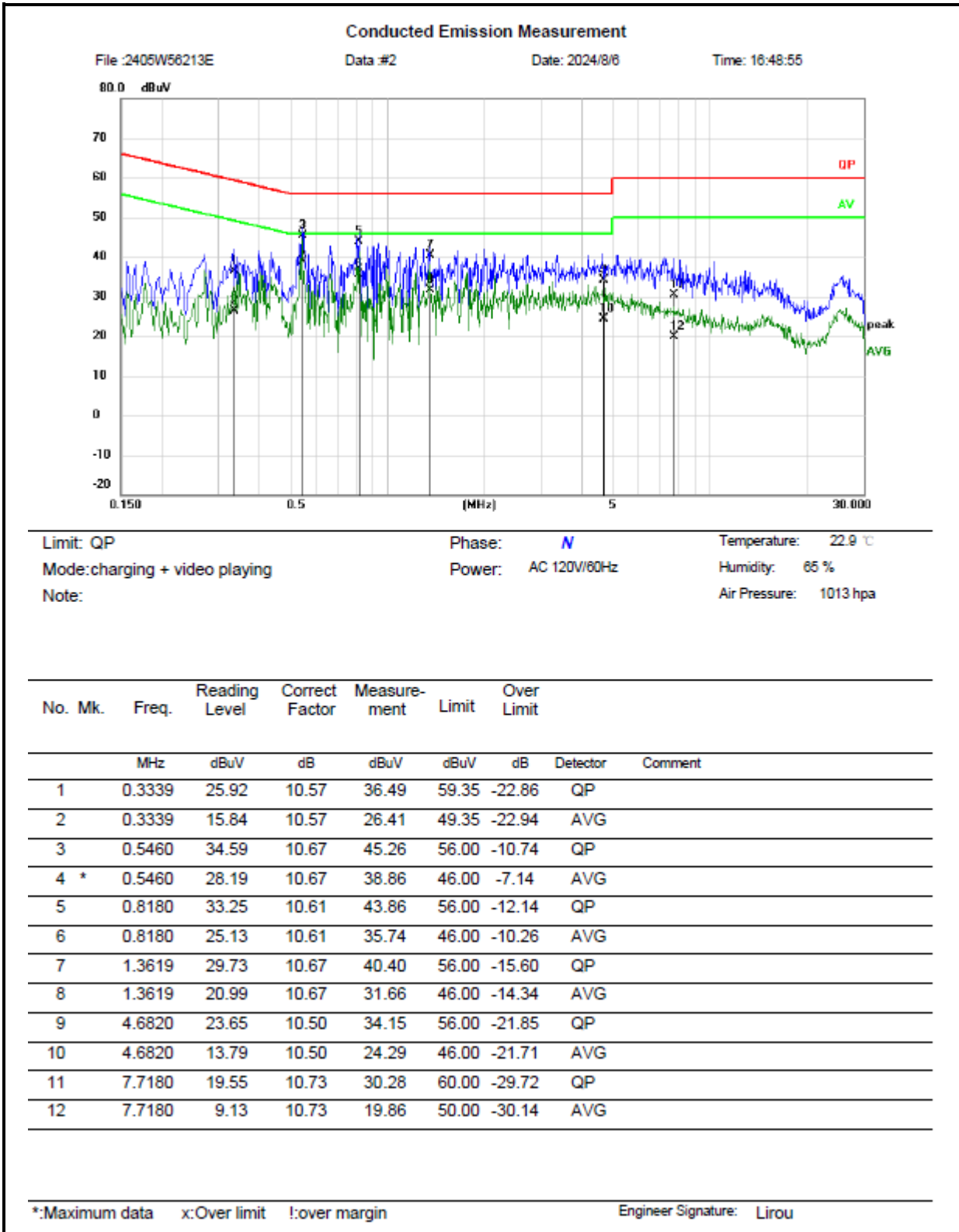
Test items	Limit																																																					
AC Line Conducted Emissions	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBµV)</th><th colspan="2">Class B Limit (dBµV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 ^{Note 1}</td><td>56 to 46 ^{Note 1}</td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr><tr><td colspan="5">Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.</td></tr></table>	Frequency (MHz)	Class A Limit (dBµV)		Class B Limit (dBµV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50	Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.																												
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Radiated emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBµV/m)</th><th colspan="2">Class B Limit (dBµV/m)</th></tr><tr><th>Quasi-Peak @ 3m</th><th>Quasi-Peak @ 10m</th><th>Quasi-Peak @ 3m</th><th>Quasi-Peak @ 10m</th></tr><tr><td>30 – 88</td><td>49.0</td><td>39.0</td><td>40.0</td><td>30.0</td></tr><tr><td>88 – 216</td><td>53.5</td><td>43.5</td><td>43.5</td><td>33.5</td></tr><tr><td>216 – 960</td><td>56.0</td><td>46.0</td><td>46.0</td><td>36.0</td></tr><tr><td>960 – 1000</td><td>60.0</td><td>50.0</td><td>54.0</td><td>44.0</td></tr><tr><td colspan="5">Note: The more stringent limit applies at transition frequencies.</td></tr><tr><th rowspan="2">Frequency</th><th colspan="2">Class A Limit (dBµV/m) @ 3m</th><th colspan="2">Class B Limit (dBµV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>60.0</td><td>80.0</td><td>54.0</td><td>74.0</td></tr><tr><td colspan="5">Note: The measurement bandwidth shall be 1 MHz or greater.</td></tr></table>	Frequency (MHz)	Class A Limit (dBµV/m)		Class B Limit (dBµV/m)		Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m	30 – 88	49.0	39.0	40.0	30.0	88 – 216	53.5	43.5	43.5	33.5	216 – 960	56.0	46.0	46.0	36.0	960 – 1000	60.0	50.0	54.0	44.0	Note: The more stringent limit applies at transition frequencies.					Frequency	Class A Limit (dBµV/m) @ 3m		Class B Limit (dBµV/m) @ 3m		Average	Peake	Average	Peake	Above 1 GHz	60.0	80.0	54.0	74.0	Note: The measurement bandwidth shall be 1 MHz or greater.				
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	216 – 960	56.0	46.0	46.0	36.0																																																	
	960 – 1000	60.0	50.0	54.0	44.0																																																	
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		Average	Peake	Average	Peake																																																	
Above 1 GHz	60.0	80.0	54.0	74.0																																																		
Note: The measurement bandwidth shall be 1 MHz or greater.																																																						

3.3 AC Line Conducted Emissions Test Data

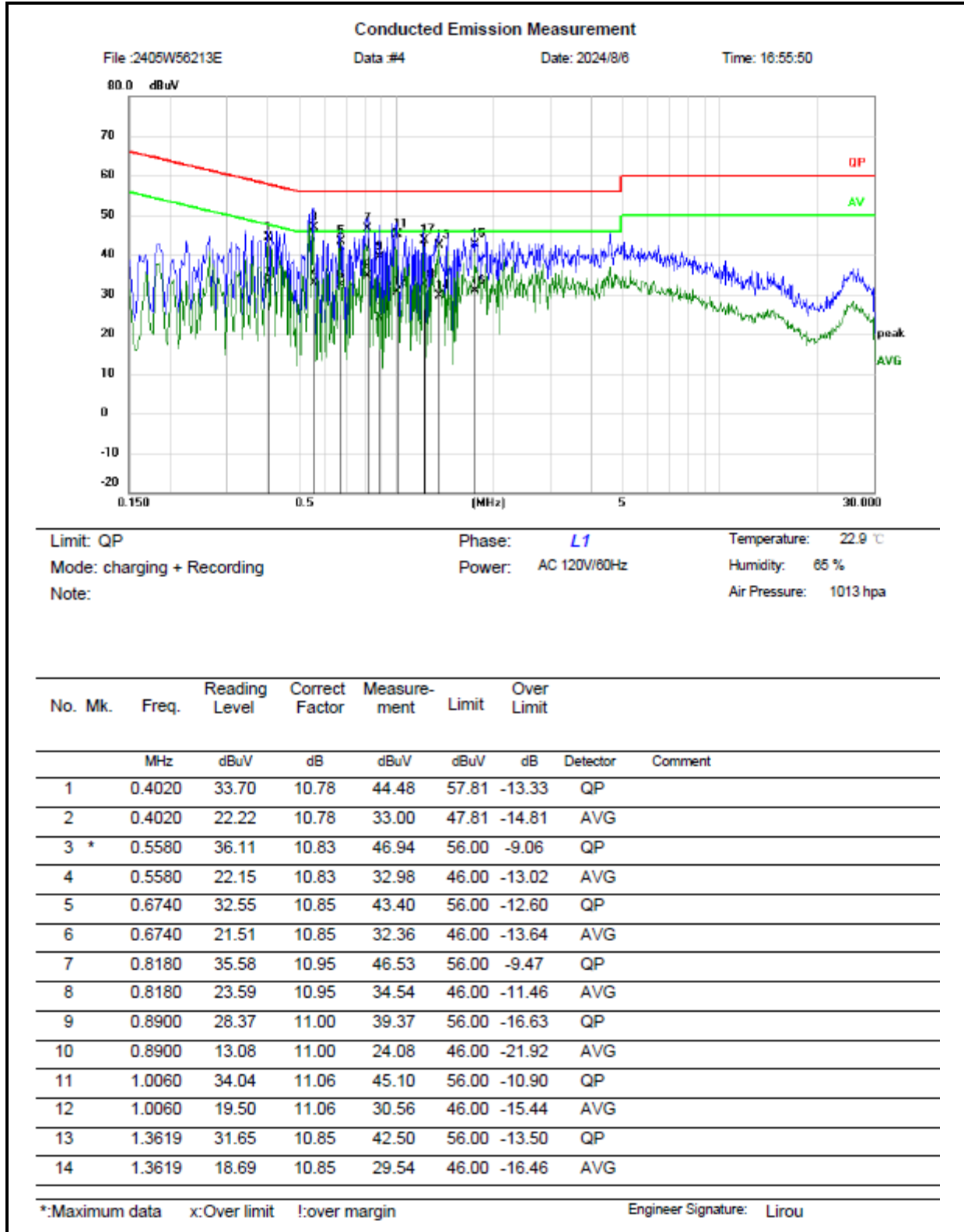
Test Date:	2024-08-06	Test By:	Lirou Li
Environment condition:	Temperature: 22.9°C; Relative Humidity:65%; ATM Pressure: 101.3kPa		

Test mode: Charging + Video playing





Test mode: Charging + Recording

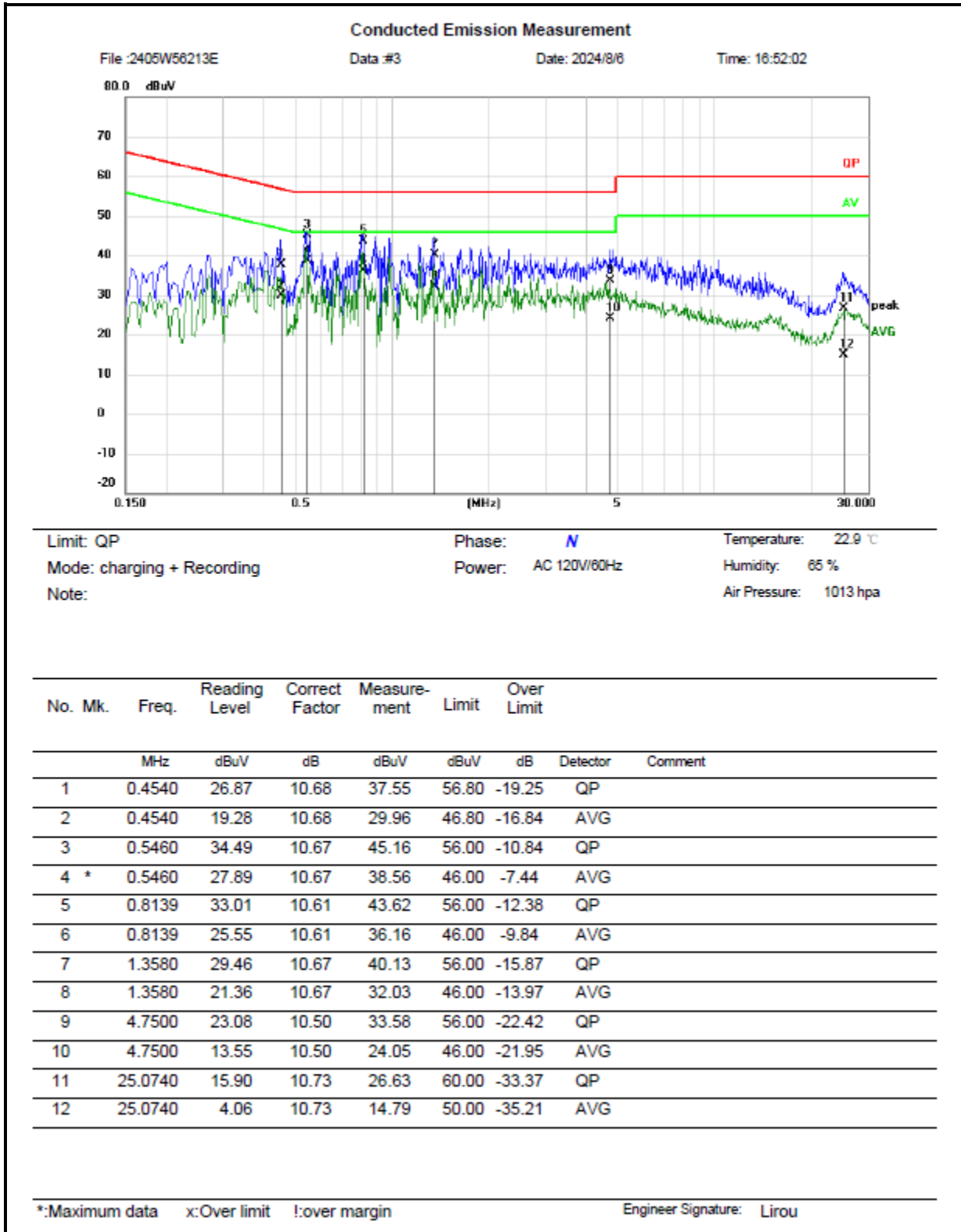


Limit: QP Phase: **L1** Temperature: 22.9 °C
Mode: charging + Recording Power: AC 120V/60Hz Humidity: 65 %
Note: Air Pressure: 1013 hpa

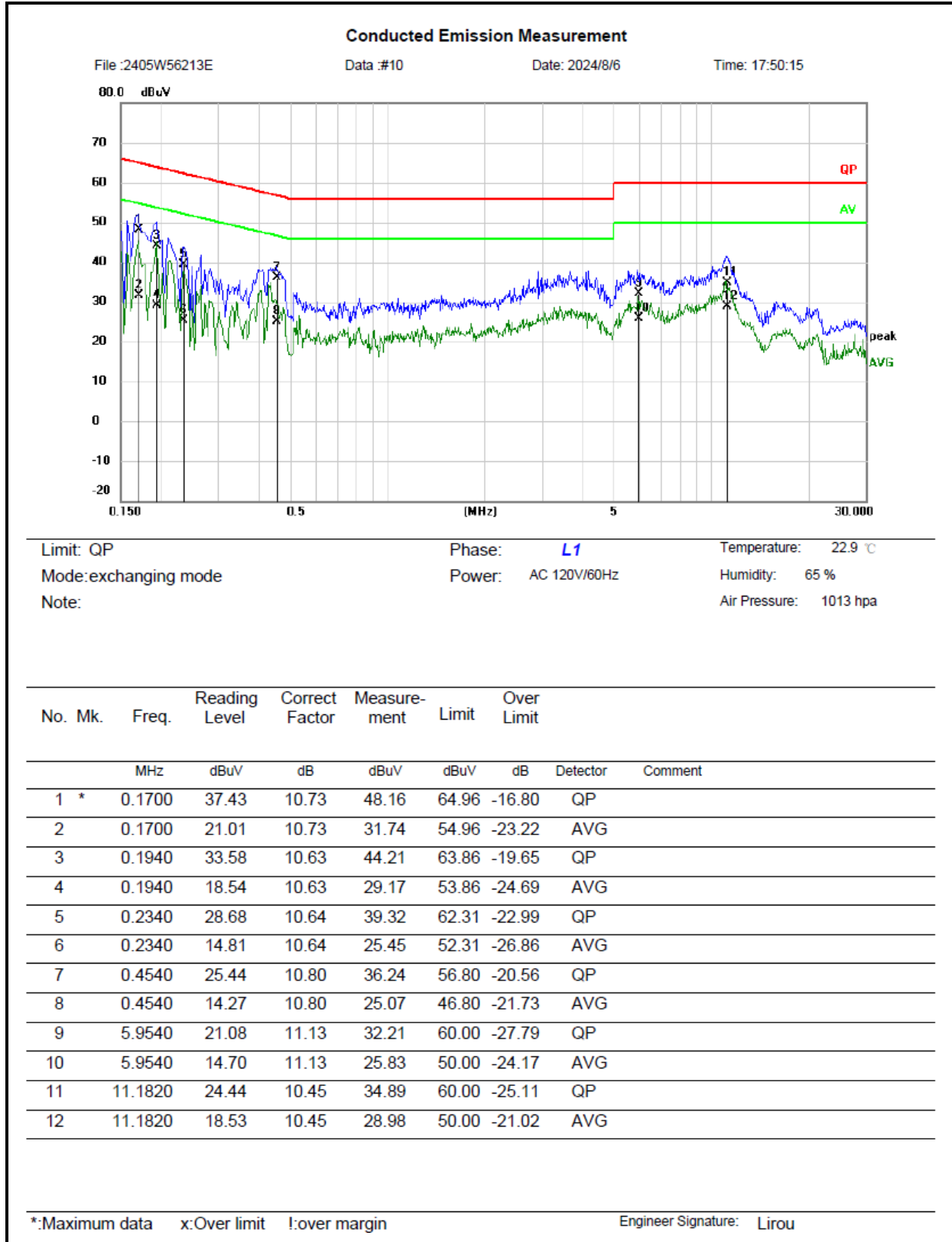
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
15		1.7620	32.05	10.62	42.67	56.00	-13.33	QP	
16		1.7620	20.14	10.62	30.76	46.00	-15.24	AVG	
17		1.2180	32.66	10.94	43.60	56.00	-12.40	QP	
18		1.2180	21.50	10.94	32.44	46.00	-13.56	AVG	

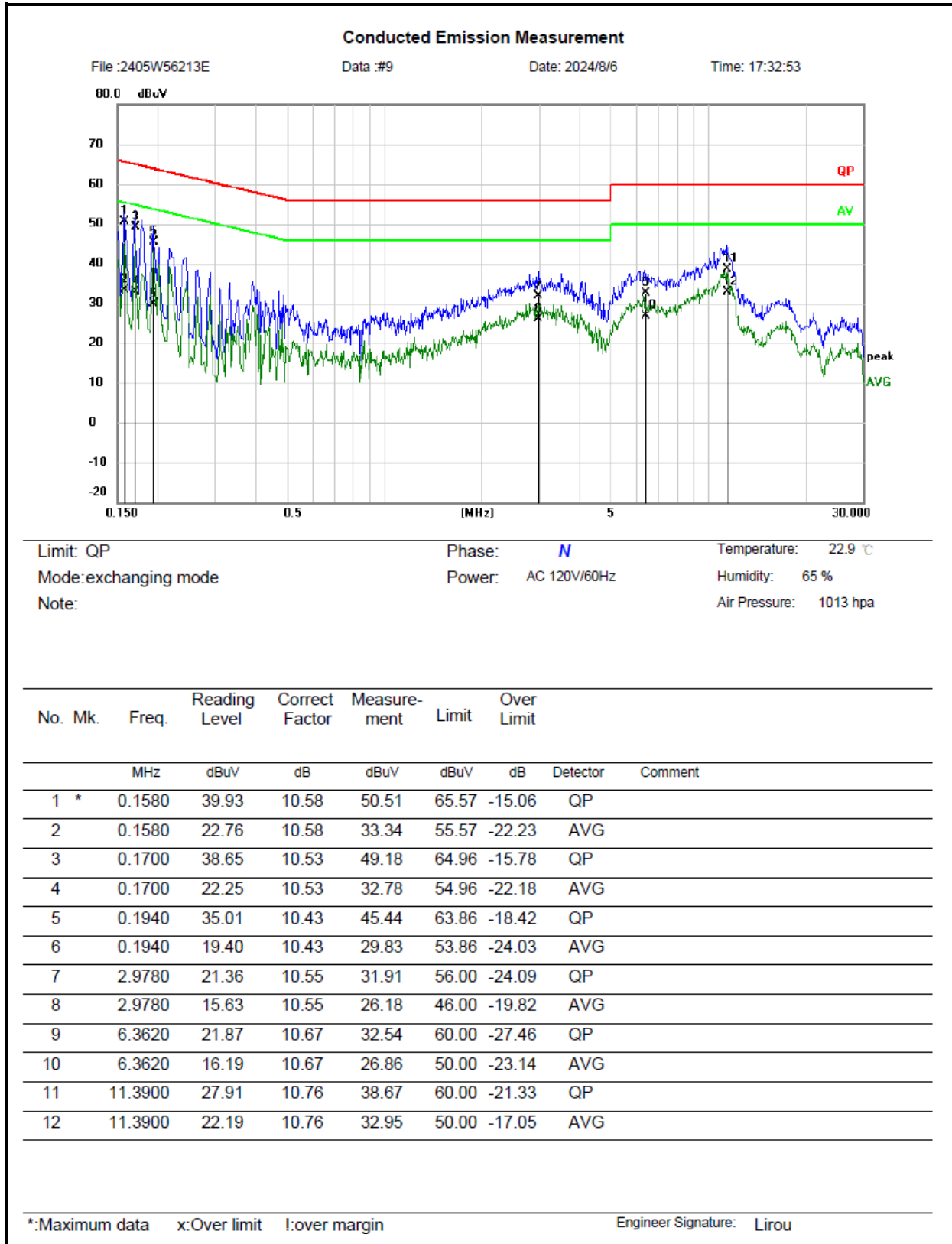
*:Maximum data x:Over limit !:over margin

Engineer Signature: **Lirou**



Test mode: Data exchange





Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor (dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

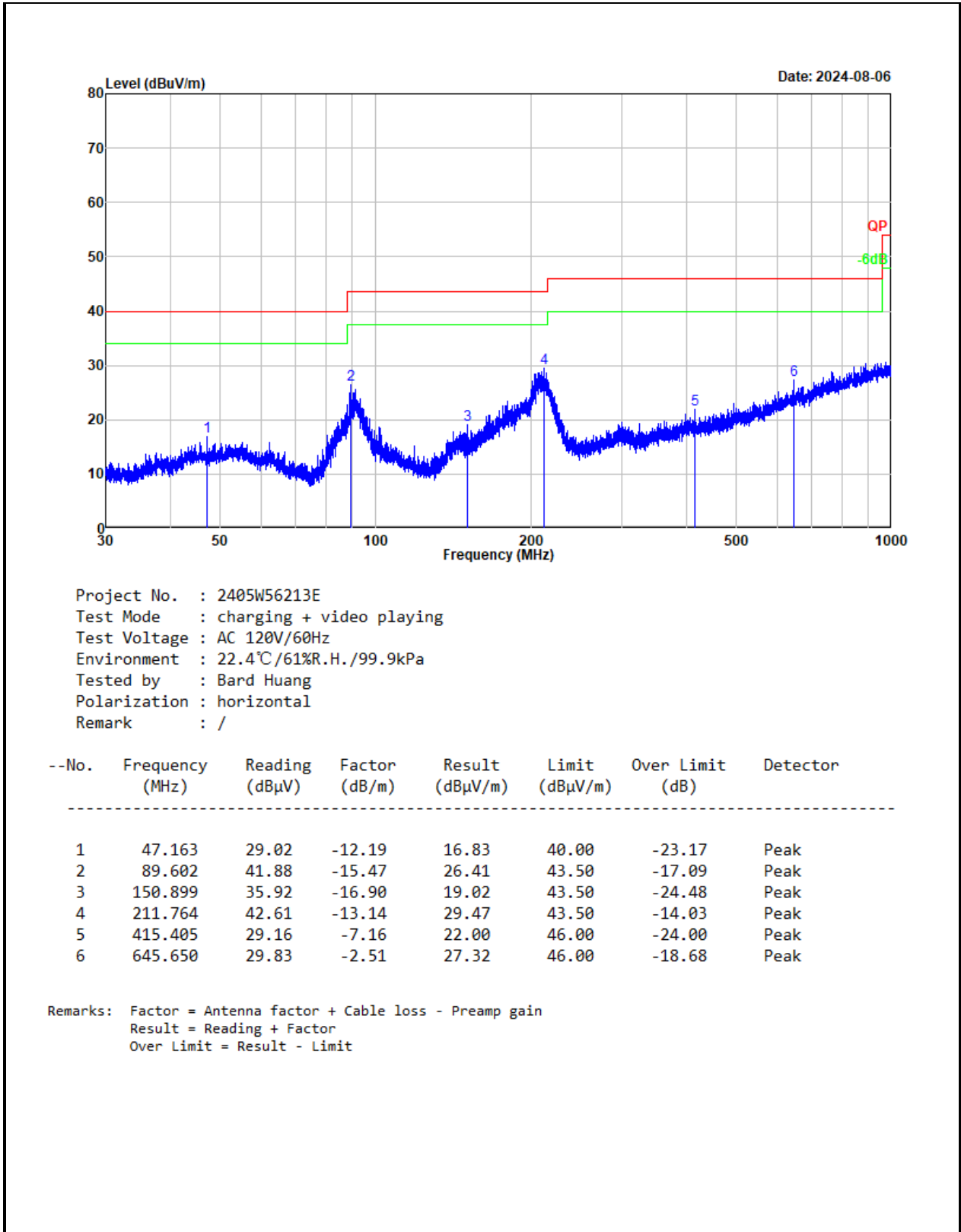
Over Limit = Measurement – Limit

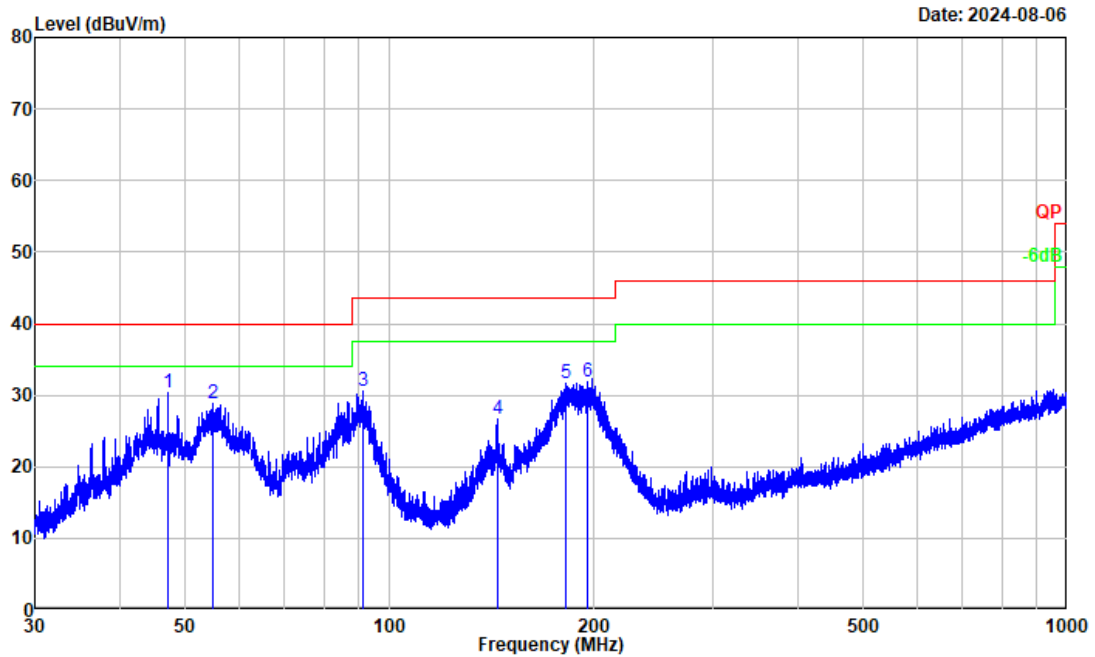
3.4 Radiated emission Test Data

30MHz-1GHz:

Test Date:	2024-08-06	Test By:	Bard Huang
Environment condition:	Temperature: 22.4°C; Relative Humidity:61%; ATM Pressure: 99.9kPa		

Test mode: Charging + Video playing





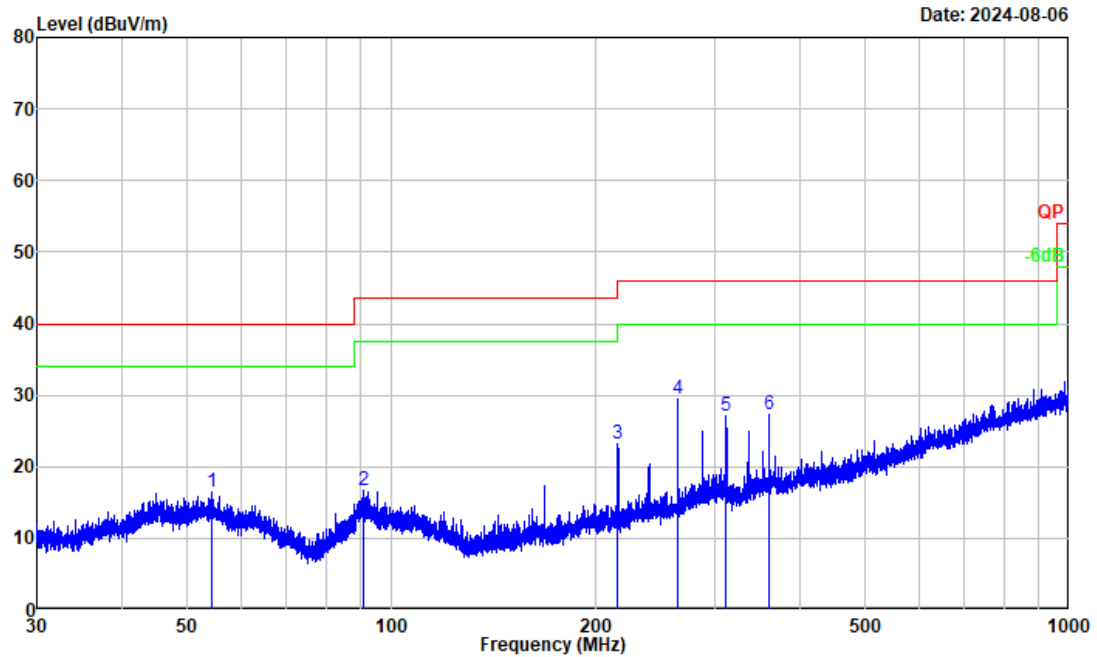
Project No. : 2405W56213E
Test Mode : charging + video playing
Test Voltage : AC 120V/60Hz
Environment : 22.4°C/61%R.H./99.9kPa
Tested by : Bard Huang
Polarization : vertical
Remark : /

--No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector

1	47.183	42.53	-12.19	30.34	40.00	-9.66	Peak
2	54.863	41.43	-12.58	28.85	40.00	-11.15	Peak
3	91.468	45.62	-15.05	30.57	43.50	-12.93	Peak
4	144.363	43.76	-17.13	26.63	43.50	-16.87	Peak
5	181.882	46.49	-14.94	31.55	43.50	-11.95	Peak
6	195.782	45.20	-13.41	31.79	43.50	-11.71	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

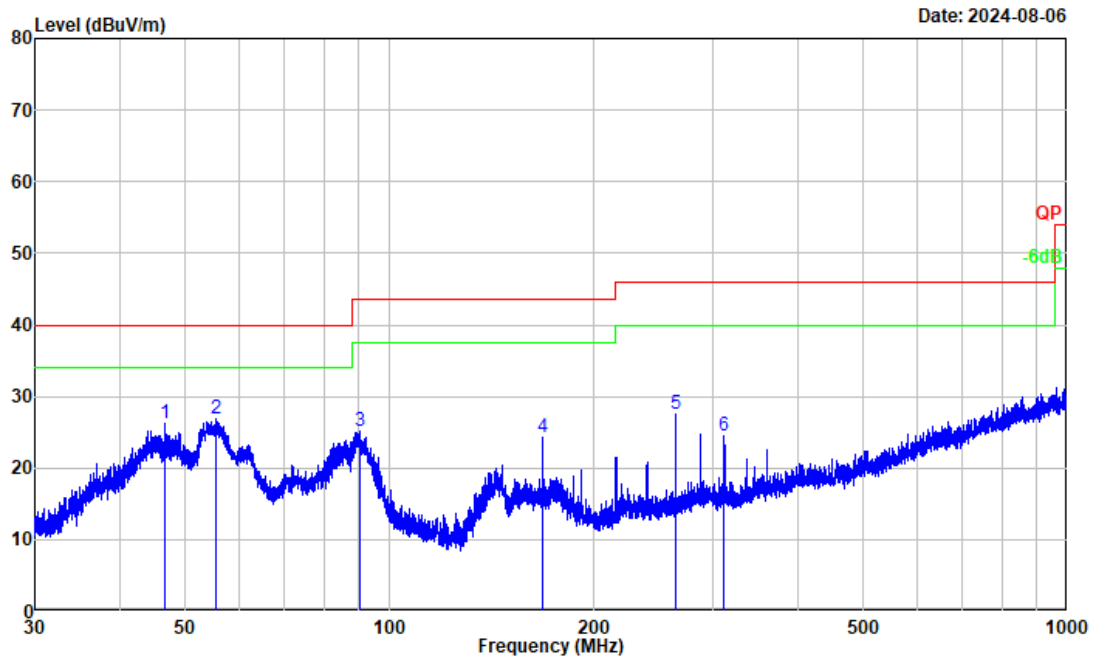
Test mode: Charging + Recording



Project No. : 2405W56213E
Test Mode : charging + recording
Test Voltage : AC 120V/60Hz
Environment : 22.4°C/61%R.H./99.9kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	54.217	28.85	-12.44	16.41	40.00	-23.59	Peak
2	90.749	31.87	-15.20	16.67	43.50	-26.83	Peak
3	215.983	36.24	-13.04	23.20	43.50	-20.30	Peak
4	264.006	40.86	-11.29	29.57	46.00	-16.43	Peak
5	311.997	37.14	-10.09	27.05	46.00	-18.95	Peak
6	360.086	35.69	-8.45	27.24	46.00	-18.76	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

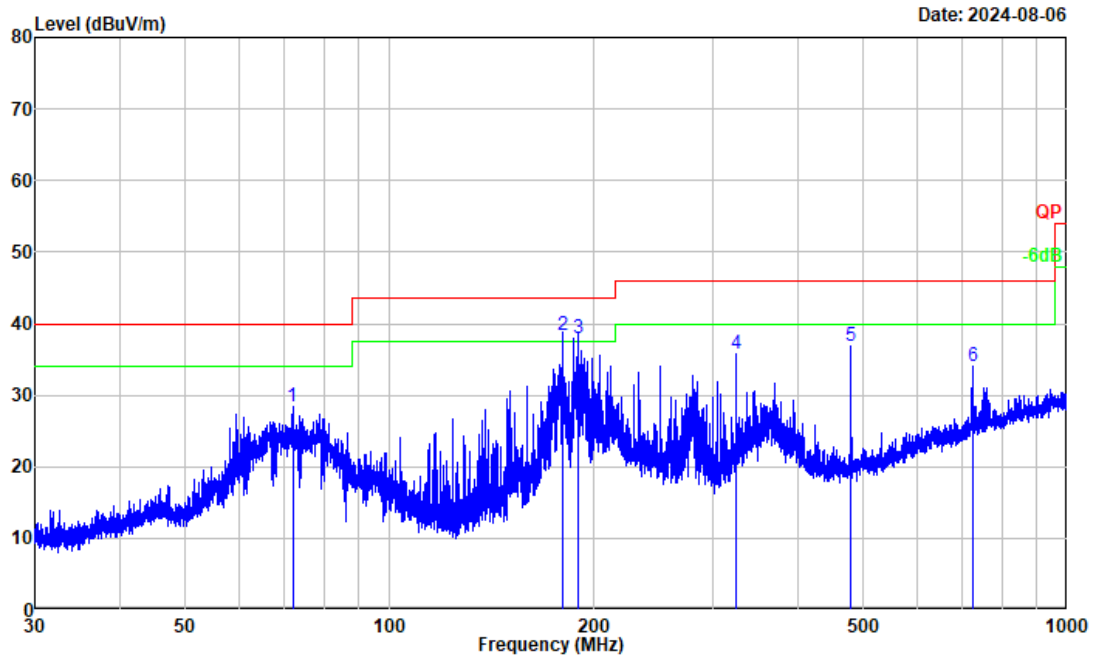


Project No. : 2405W56213E
 Test Mode : charging + recording
 Test Voltage : AC 120V/60Hz
 Environment : 22.4°C/61%R.H./99.9kPa
 Tested by : Bard Huang
 Polarization : vertical
 Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	46.771	38.51	-12.22	26.29	40.00	-13.71	Peak
2	55.395	39.48	-12.70	26.78	40.00	-13.22	Peak
3	90.471	40.42	-15.26	25.16	43.50	-18.34	Peak
4	168.008	40.23	-15.99	24.24	43.50	-19.26	Peak
5	264.006	38.93	-11.29	27.64	46.00	-18.36	Peak
6	311.997	34.56	-10.09	24.47	46.00	-21.53	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit

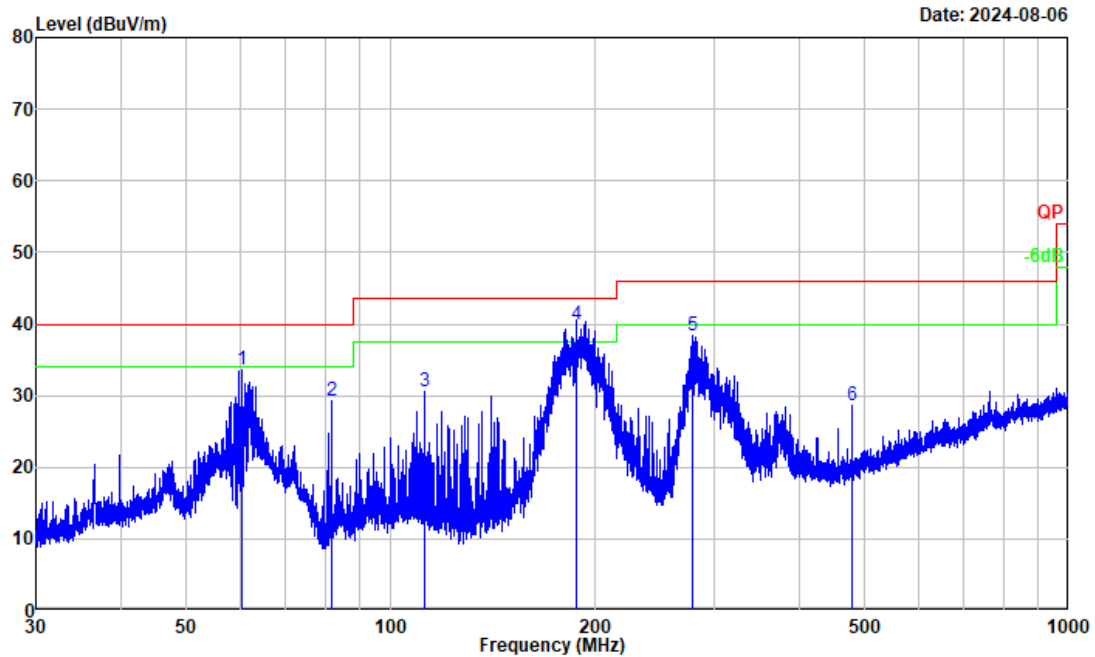
Test mode: Data exchange



Project No. : 2405W56213E
Test Mode : data exhcange
Test Voltage : power by battery
Environment : 22.4℃/61%R.H./99.9kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	71.998	45.10	-16.75	28.35	40.00	-11.65	Peak
2	180.215	53.51	-15.14	38.37	43.50	-5.13	QP
3	189.616	52.09	-14.06	38.03	43.50	-5.47	QP
4	324.695	45.30	-9.63	35.67	46.00	-10.33	Peak
5	480.063	43.18	-6.40	36.78	46.00	-9.22	Peak
6	724.232	35.35	-1.36	33.99	46.00	-12.01	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit



Project No. : 2405W56213E
 Test Mode : data exchange
 Test Voltage : power by battery
 Environment : 22.4°C/61%R.H./99.9kPa
 Tested by : Bard Huang
 Polarization : vertical
 Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector

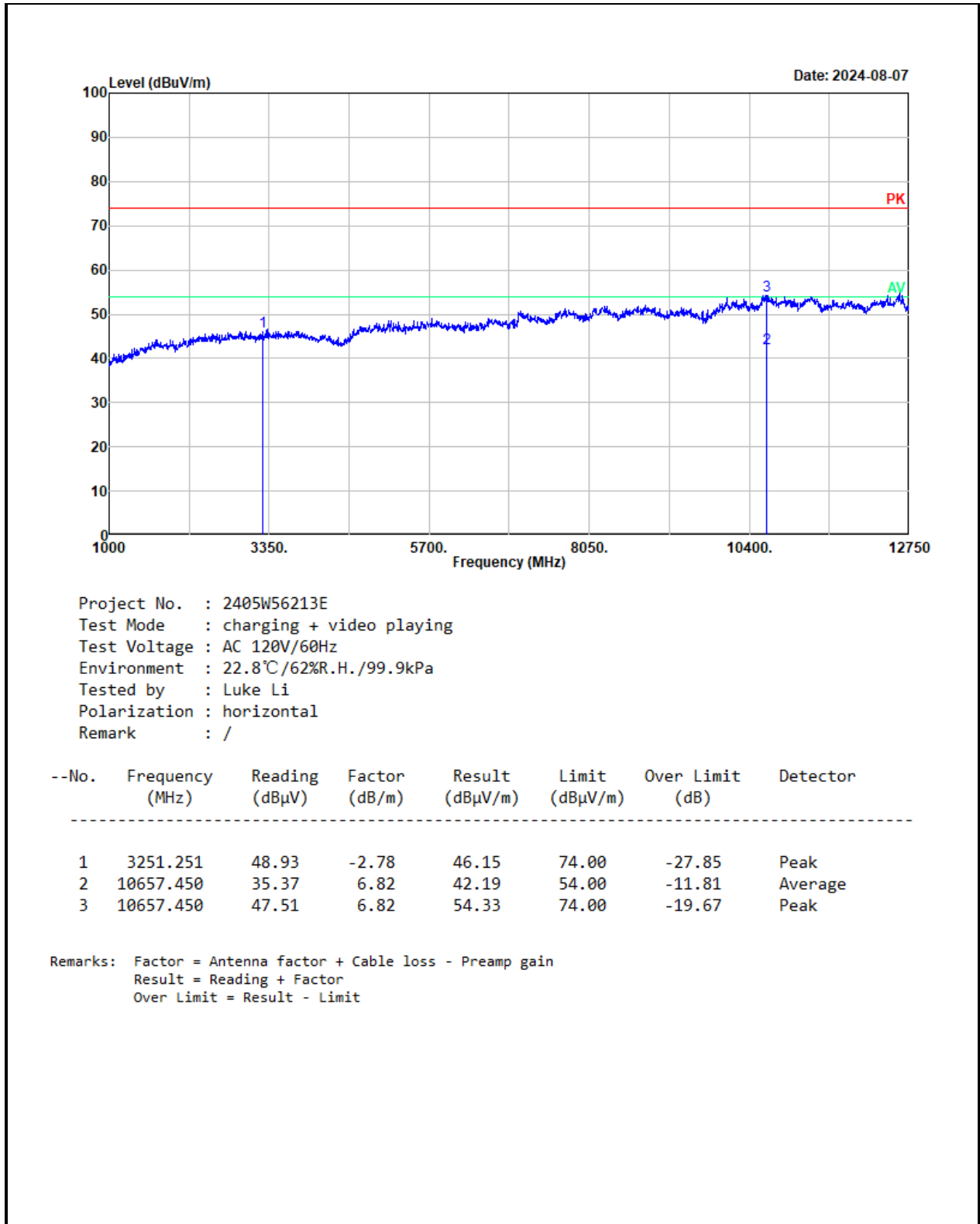
1	60.418	47.35	-13.66	33.69	40.00	-6.31	Peak
2	81.794	46.70	-17.51	29.19	40.00	-10.81	Peak
3	112.444	44.57	-14.02	30.55	43.50	-12.95	Peak
4	187.467	54.10	-14.31	39.79	43.50	-3.71	QP
5	279.366	49.29	-10.95	38.34	46.00	-7.66	Peak
6	480.063	34.93	-6.40	28.53	46.00	-17.47	Peak

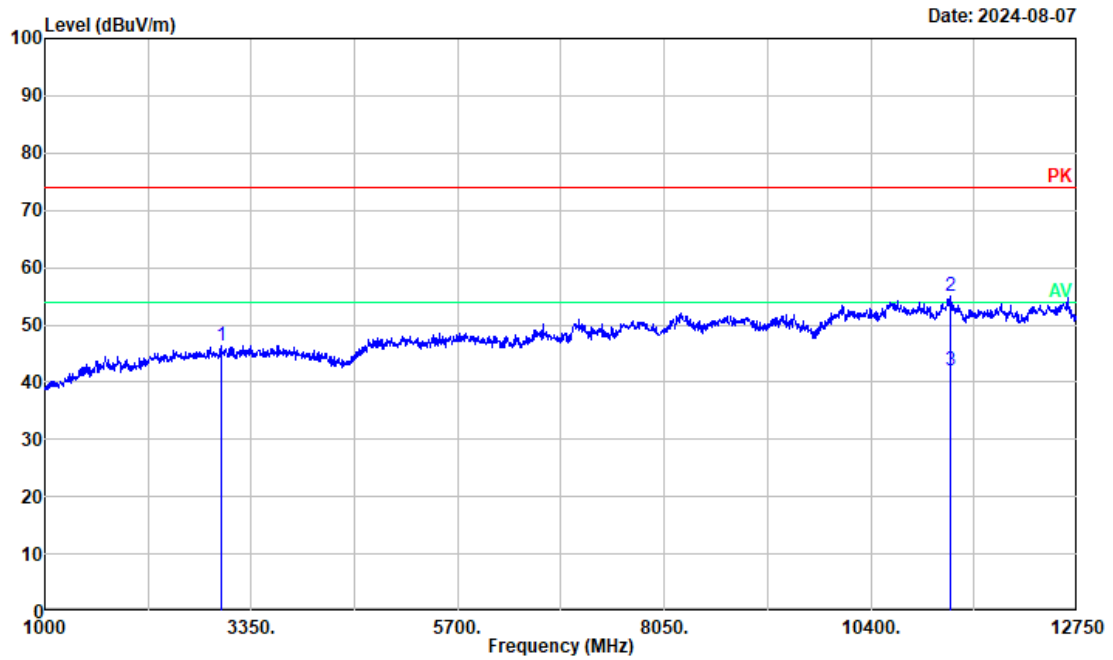
Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit

Above 1GHz:

Test Date:	2024-08-07	Test By:	Luke Li
Environment condition:	Temperature: 22.8°C; Relative Humidity:62%; ATM Pressure: 99.9kPa		

Test mode: Charging + Video playing



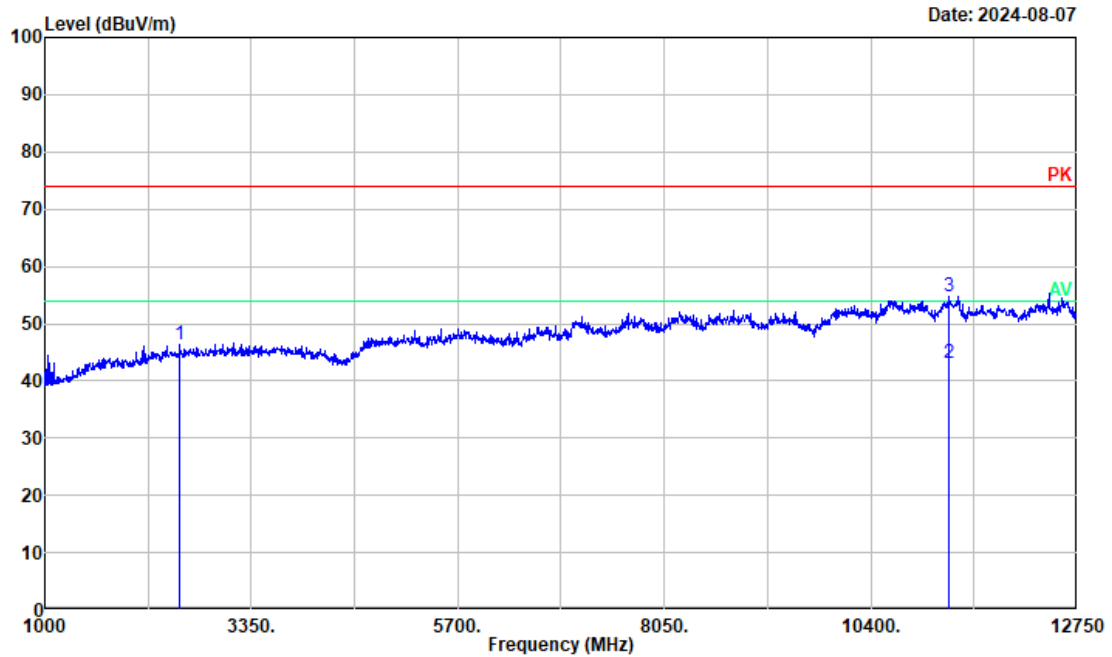


Project No. : 2405W56213E
 Test Mode : charging + video playing
 Test Voltage : AC 120V/60Hz
 Environment : 22.8°C/62%R.H./99.9kPa
 Tested by : Luke Li
 Polarization : vertical
 Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	3010.255	49.32	-3.00	46.32	74.00	-27.68	Peak
2	11309.910	48.17	6.93	55.10	74.00	-18.90	Peak
3	11309.910	35.00	6.93	41.93	54.00	-12.07	Average

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit

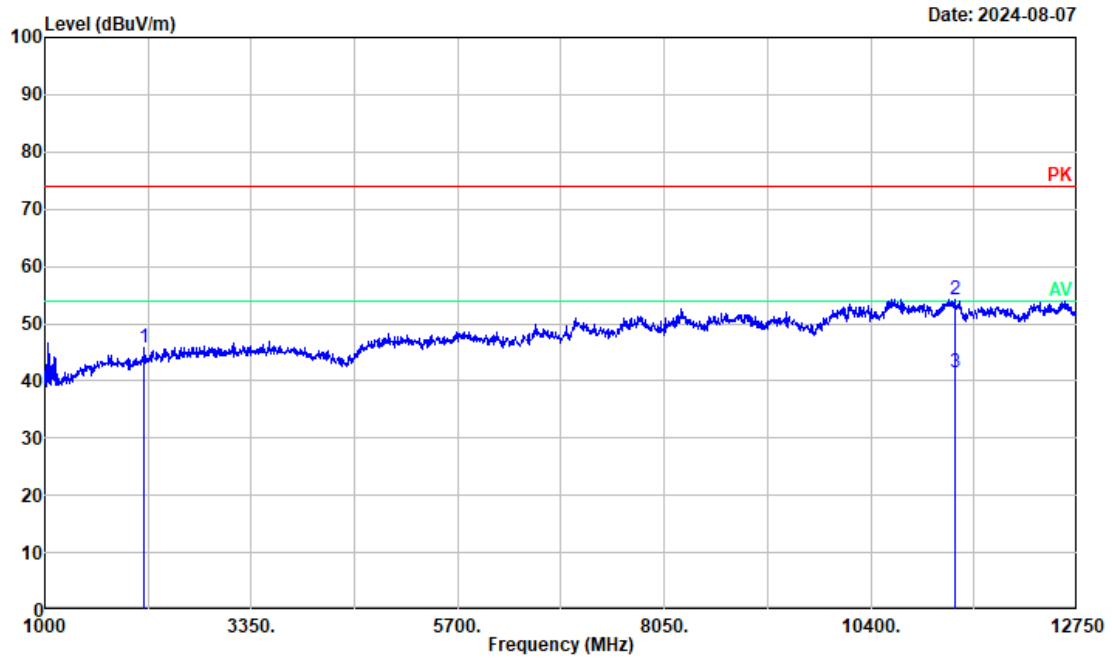
Test mode: Charging + Recording



Project No. : 2405W56213E
Test Mode : charging + recording
Test Voltage : AC 120V/60Hz
Environment : 22.8°C/62%R.H./99.9kPa
Tested by : Luke Li
Polarization : horizontal
Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	2534.142	49.16	-2.73	46.43	74.00	-27.57	Peak
2	11286.390	35.95	7.00	42.95	54.00	-11.05	Average
3	11286.390	47.86	7.00	54.86	74.00	-19.14	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

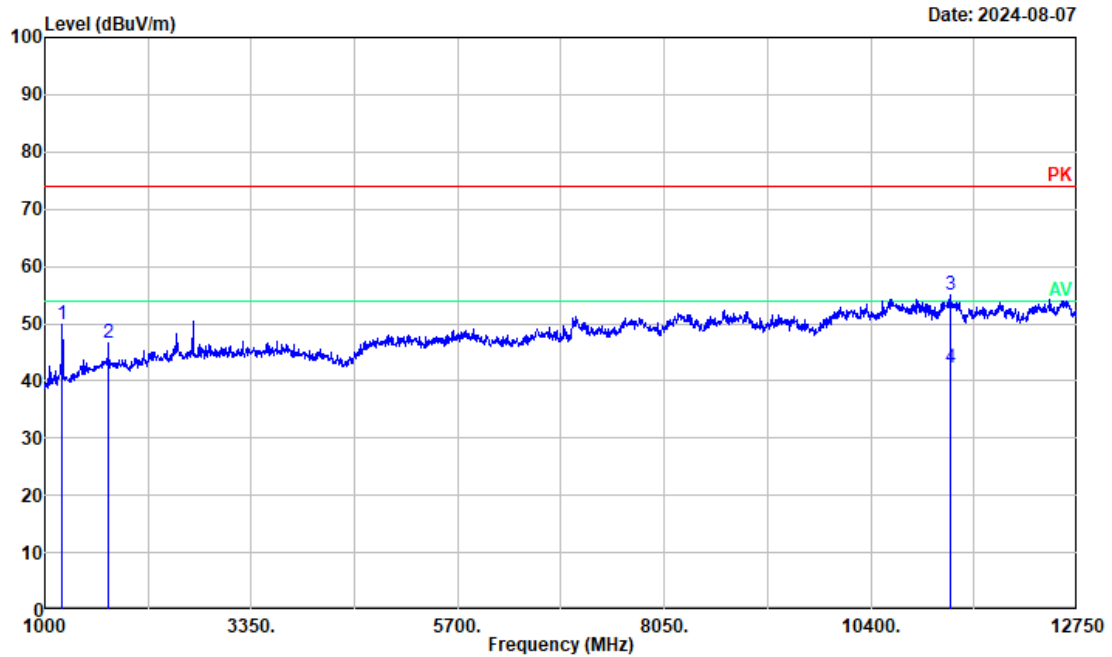


Project No. : 2405W56213E
Test Mode : charging + recording
Test Voltage : AC 120V/60Hz
Environment : 22.8°C/62%R.H./99.9kPa
Tested by : Luke Li
Polarization : vertical
Remark : /

--No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	2134.442	49.29	-3.55	45.74	74.00	-28.26	Peak
2	11356.930	47.85	6.40	54.25	74.00	-19.75	Peak
3	11356.930	35.19	6.40	41.59	54.00	-12.41	Average

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

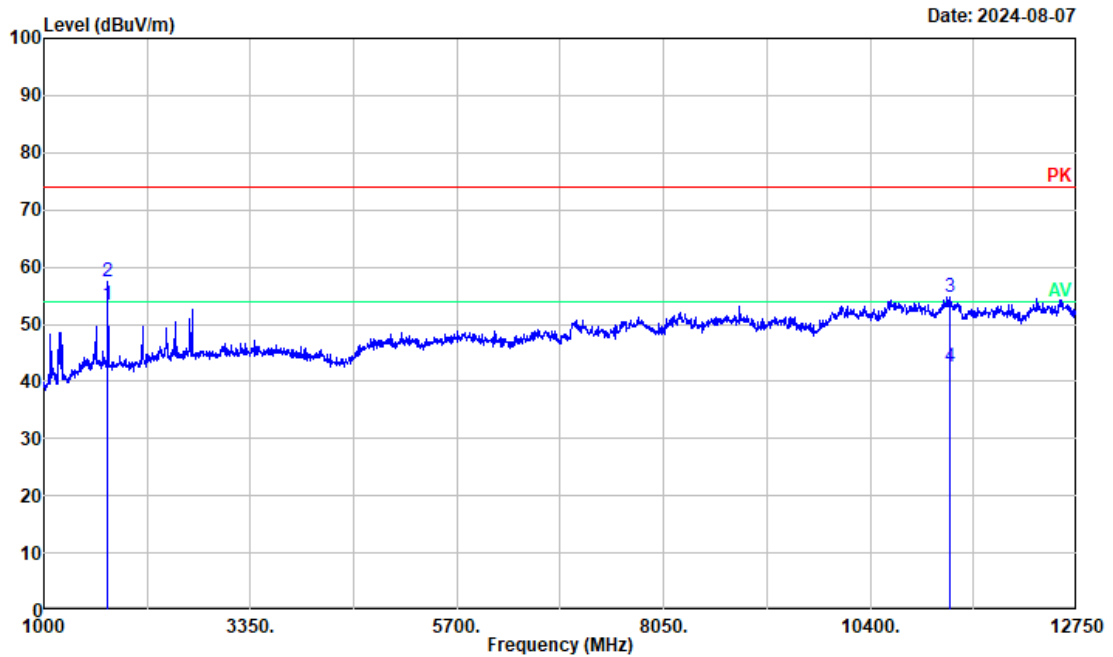
Test mode: Data exchange



Project No. : 2405W56213E
Test Mode : data exchange
Test Voltage : power by battery
Environment : 22.8°C/62%R.H./99.9kPa
Tested by : Luke Li
Polarization : horizontal
Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1199.850	55.65	-5.80	49.85	74.00	-24.15	Peak
2	1722.986	49.63	-3.10	46.53	74.00	-27.47	Peak
3	11298.150	47.99	7.04	55.03	74.00	-18.97	Peak
4	11298.150	35.33	7.04	42.37	54.00	-11.63	Average

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit



Project No. : 2405W56213E
Test Mode : data exchange
Test Voltage : power by battery
Environment : 22.8°C/62%R.H./99.9kPa
Tested by : Luke Li
Polarization : vertical
Remark : /

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1722.986	56.52	-3.10	53.42	54.00	-0.58	Average
2	1722.986	60.64	-3.10	57.54	74.00	-16.46	Peak
3	11298.150	47.66	7.04	54.70	74.00	-19.30	Peak
4	11298.150	35.56	7.04	42.60	54.00	-11.40	Average

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit

4 Test Setup Photo

Please refer to the attachment 2405W56213EA Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2405W56213E External photo and 2405W56213E Internal photo.

---End of Report---