

EMC MEASUREMENT REPORT

Applicant: Belden Hirschmann Industries (Suzhou) Ltd.

Address: 333 Yanhu Road, Huaqiao Town, Kunshan City, Jiangsu Province, P. R. China

Product: HIT Dragonfly Access Point

Model No.: DAP640-RW, DAP640-US, DAP640-ME, DAP640-JP

Brand Name: HIRSCHMANN IT

FCC Rule Part(s): FCC Part 15 Subpart B

Test Procedure: ANSI C63.4-2014

Test Date: April 4 ~ 8, 2022

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2201RSU008-U9	Rev. 01	Initial Report	04-26-2022	Valid

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1. General Information

1.1. Applicant

Belden Hirschmann Industries (Suzhou) Ltd.
333 Yanhu Road, Huaqiao Town, Kunshan City, Jiangsu Province, P. R. China

1.2. Manufacturer

Belden Hirschmann Industries (Suzhou) Ltd.
333 Yanhu Road, Huaqiao Town, Kunshan City, Jiangsu Province, P. R. China

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	HIT Dragonfly Access Point
Model No.	DAP640-RW, DAP640-US, DAP640-ME, DAP640-JP
Brand Name	HIRSCHMANN IT
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Scan Wi-Fi Specification	802.11 a/b/g
Bluetooth Specification	v5.1 Bluetooth BLE 1Mbps+2Mbps
Operating Temperature	0 ~ 50 °C
Power Type	PoE input or AC adapter input
AC adapter	Manufacture: DELTA ELECTRONICS, INC. Model No.: ADP-50GR B Input: 100~240V~1.3A 50-60Hz Output: 48.0V=1.042A 50.1W MAX
PoE Injector 1#	Manufacture: PROCET Model No.: PT-PSE101G-AT Input: 100~240V~1.0A 50-60Hz Output: 55V=550mA
PoE Injector 2#	Manufacture: PROCET Model No.: PT-PSE104GO-30-5 Input: 100~240V~1.5A 50-60Hz Output: 55V=550mA
Operating Environment	Indoor Use
Remark: 1. AC Adapter and PoE Injectors are not sold with the product. 2. Different models are only market requirements, all hardware and software are consistent. 3. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

2. Test Configuration

2.1. Test Mode

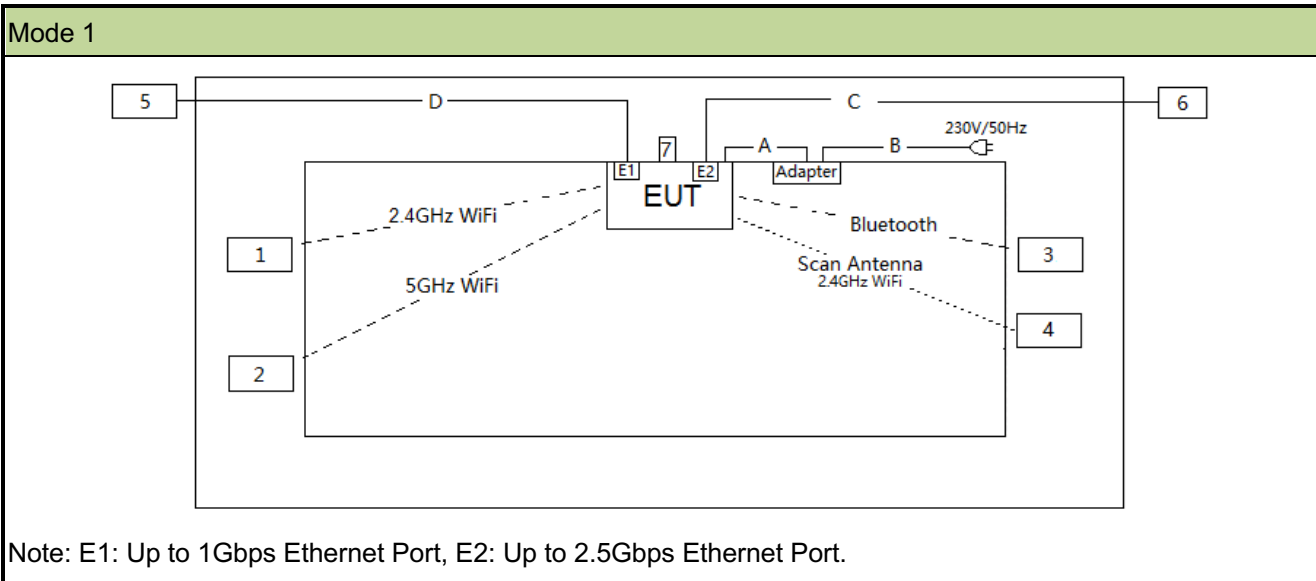
Mode 1: Power EUT by AC/DC Adapter & Communicate with Notebook by LAN Cable and Wi-Fi & Communicate with mobile phone by Wi-Fi and Bluetooth & Plug USB Flash and make it read/write.

Mode 2: Power by PoE Injector 1# (E1) & Communicate with Notebook by LAN Cable and Wi-Fi & Communicate with mobile phone by Wi-Fi and Bluetooth & Plug USB Flash and make it read/write.

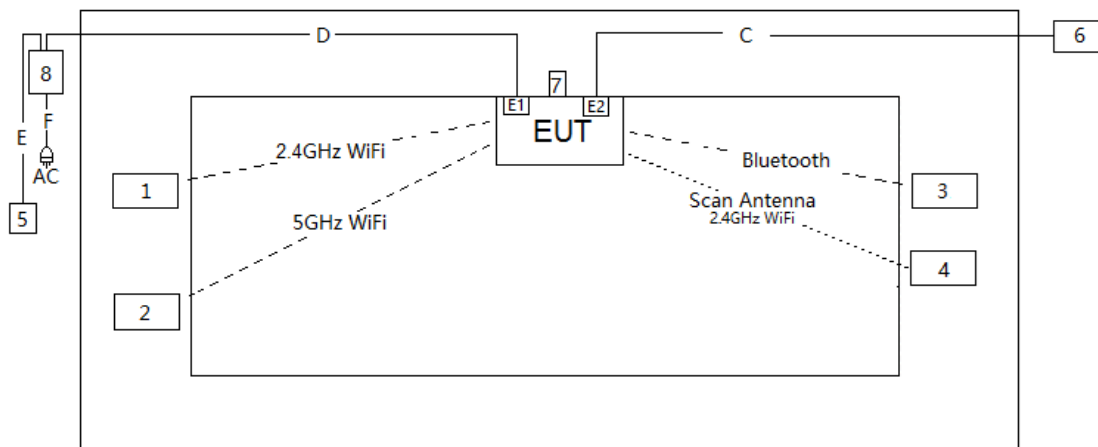
Mode 3: Power by PoE Injector 2# (E2) & Communicate with Notebook by LAN Cable and Wi-Fi & Communicate with mobile phone by Wi-Fi and Bluetooth & Plug USB Flash and make it read/write.

2.2. Configuration of Tested System

The measurement procedures and appropriate EUT setup described in the American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2014) was used in the measurement.

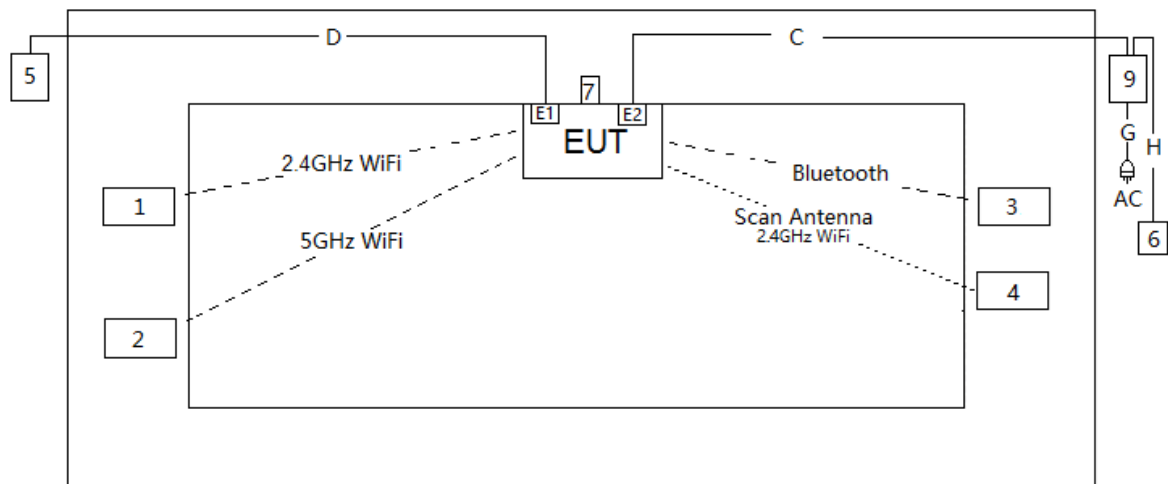


Mode 2



Note: E1: Up to 1Gbps Ethernet Port, E2: Up to 2.5Gbps Ethernet Port.

Mode 3



Note: E1: Up to 1Gbps Ethernet Port, E2: Up to 2.5Gbps Ethernet Port.

Cable Type		Cable Spec.	Length
A	Power Cable	Non-Shielding	1.5m
B	Power Cable	Non-Shielding	1.8m
C	Ethernet Cable	Non-Shielding, Cat 5e	>10m
D	Ethernet Cable	Non-Shielding, Cat 5e	>10m
E	Ethernet Cable	Non-Shielding, Cat 5e	1.5m
F	Power Cable	Non-Shielding	1.0m
G	Power Cable	Non-Shielding	1.8m
H	Ethernet Cable	Non-Shielding, Cat 5e	1.5m

Product		Ethernet Cable	Model No.
1	Mobile Phone	OPPO	X9009
2	iPhone	Apple	6s
3	Mobile Phone	Apple	11
4	Notebook	Lenovo	E431
5	Notebook	Lenovo	E460
6	Notebook	Lenovo	X201
7	SD card	SNMSUNG	32GB
8	PoE Injector	PROCET	PT-PSE101G-AT
9	PoE Injector	PROCET	PT-PSE104GO-30-5

2.3. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

3. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2022/12/23	SIP-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06600	1 year	2022/11/8	SIP-AC1
Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2022/8/5	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2022/11/2	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06620	1 year	2022/11/28	SIP-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06645	1 year	2022/8/26	SIP-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2022/6/24	SIP-AC1
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2022/6/8	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2022/6/24	SIP-SR2
Four-Line V-Network	R&S	ENV432	MRTSUE06614	1 year	2022/10/10	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2022/11/28	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	/	/	SIP-SR2

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software

4. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Verdict
15.107	Conducted Emission	Pass
15.109	Radiated Emission	Pass

5.2. Conducted Emission

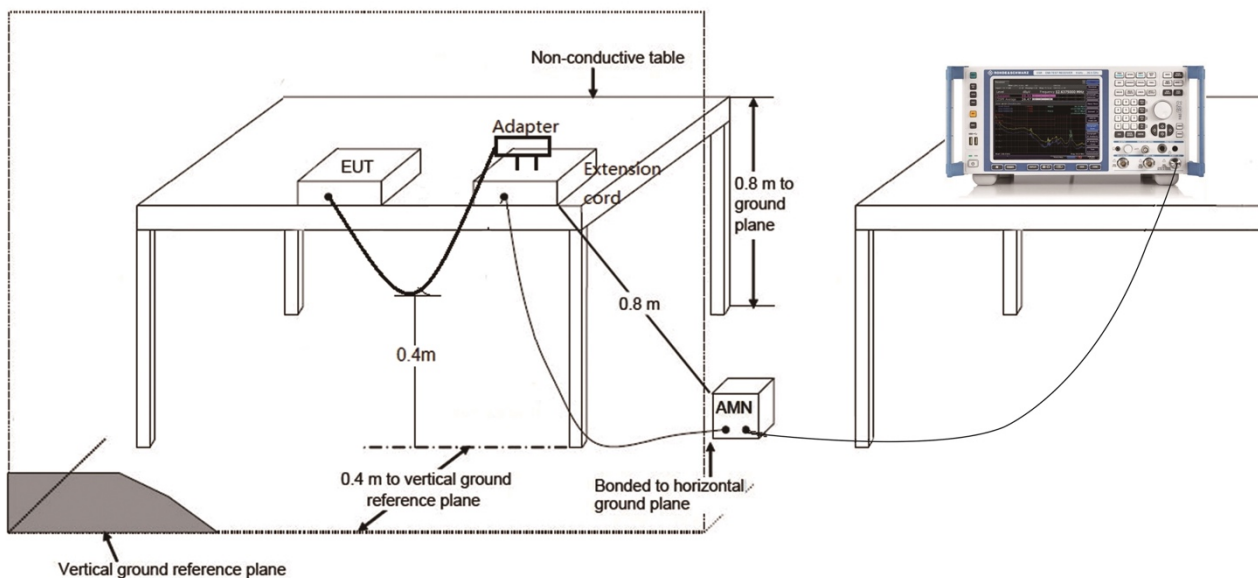
5.2.1. Test Limit

FCC Part 15.107 Class B Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

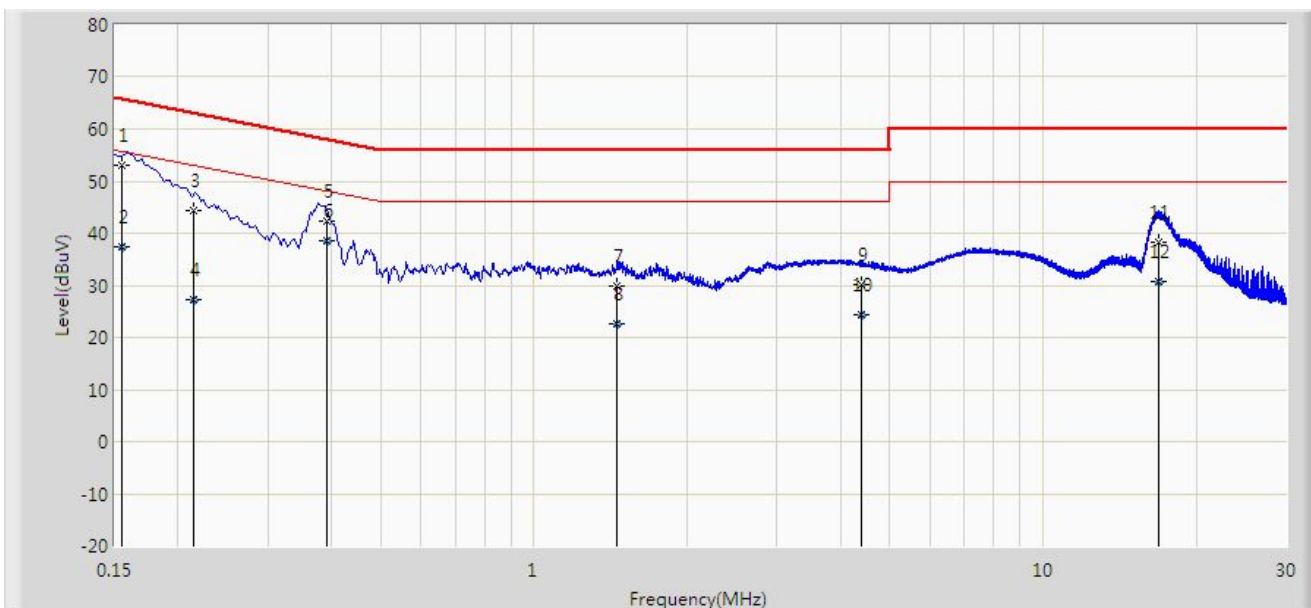
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5 MHz.

5.2.2. Test Setup



5.2.3. Test Result

Site: SIP-SR2	Time: 2022/04/08 - 10:11
Temperature: 22°C	Humidity: 52.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Augleo Wang
Probe: SIP-SR2-ENV216_101684_C	Polarity: Line
EUT: HIT Dragonfly Access Point	Power: AC 120V/60Hz
Test Mode 1	

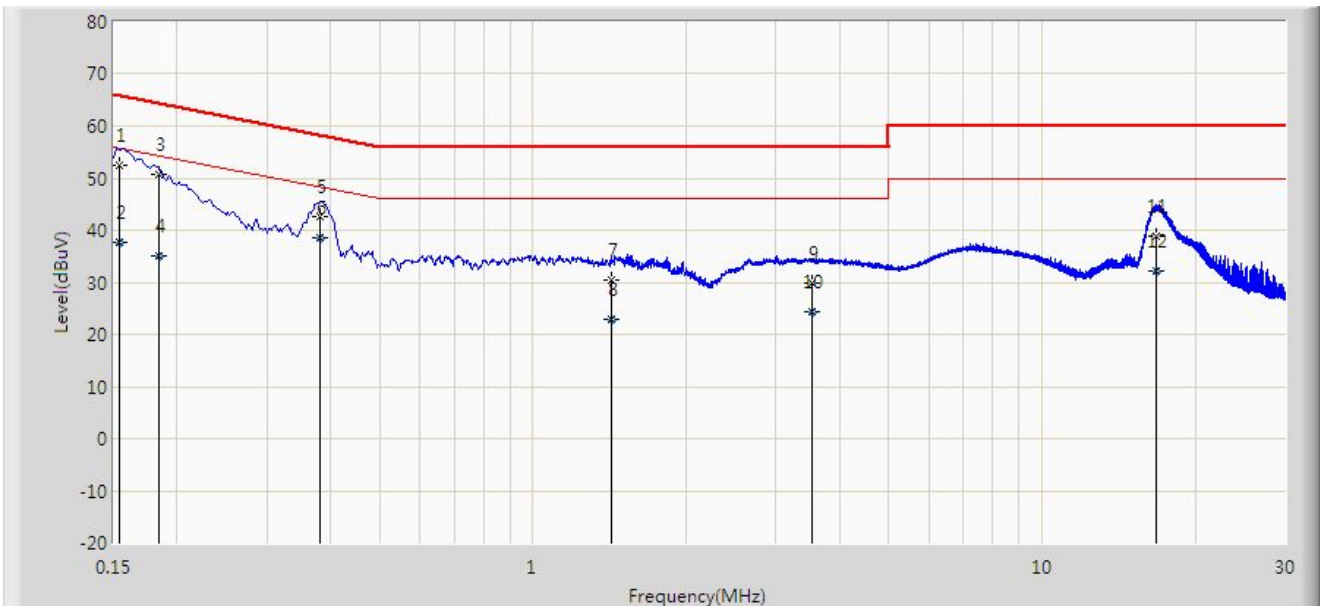


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.155	53.049	43.400	-12.679	65.728	9.649	QP
2			0.155	37.349	27.700	-18.379	55.728	9.649	AV
3			0.215	44.436	34.752	-18.564	63.000	9.684	QP
4			0.215	27.354	17.670	-25.646	53.000	9.684	AV
5			0.393	42.320	32.600	-15.680	58.000	9.720	QP
6		*	0.393	38.620	28.900	-9.380	48.000	9.720	AV
7			1.457	29.762	20.023	-26.238	56.000	9.739	QP
8			1.457	22.728	12.988	-23.272	46.000	9.739	AV
9			4.387	30.214	20.380	-25.786	56.000	9.834	QP
10			4.387	24.365	14.531	-21.635	46.000	9.834	AV
11			16.863	38.258	28.025	-21.742	60.000	10.233	QP
12			16.863	30.670	20.437	-19.330	50.000	10.233	AV

Test Mode: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2022/04/08 - 10:17
Temperature: 22°C	Humidity: 52.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Augleo Wang
Probe: SIP-SR2-ENV216_101684_C	Polarity: Neutral
EUT: HIT Dragonfly Access Point	Power: AC 120V/60Hz
Test Mode 1	

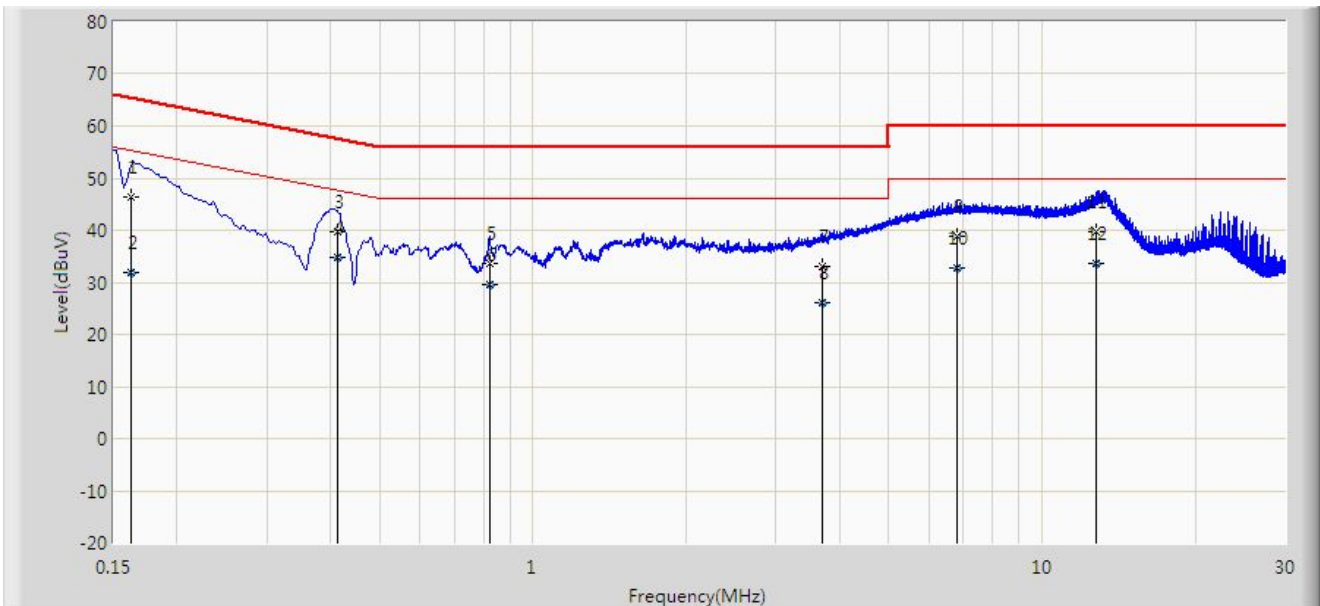


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.154	52.540	42.900	-13.242	65.781	9.640	QP
2			0.154	37.640	28.000	-18.142	55.781	9.640	AV
3			0.184	50.747	41.109	-13.568	64.314	9.638	QP
4			0.184	35.175	25.537	-19.139	54.314	9.638	AV
5			0.382	42.563	32.855	-15.678	58.241	9.708	QP
6		*	0.382	38.415	28.707	-9.826	48.241	9.708	AV
7			1.423	30.420	20.690	-25.580	56.000	9.730	QP
8			1.423	22.843	13.113	-23.157	46.000	9.730	AV
9			3.521	29.847	20.037	-26.153	56.000	9.810	QP
10			3.521	24.260	14.450	-21.740	46.000	9.810	AV
11			16.703	38.976	28.755	-21.024	60.000	10.221	QP
12			16.703	32.136	21.915	-17.864	50.000	10.221	AV

Test Mode: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2022/04/08 - 10:28
Temperature: 22°C	Humidity: 52.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Augleo Wang
Probe: SIP-SR2-ENV216_101684_C	Polarity: Line
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 2	

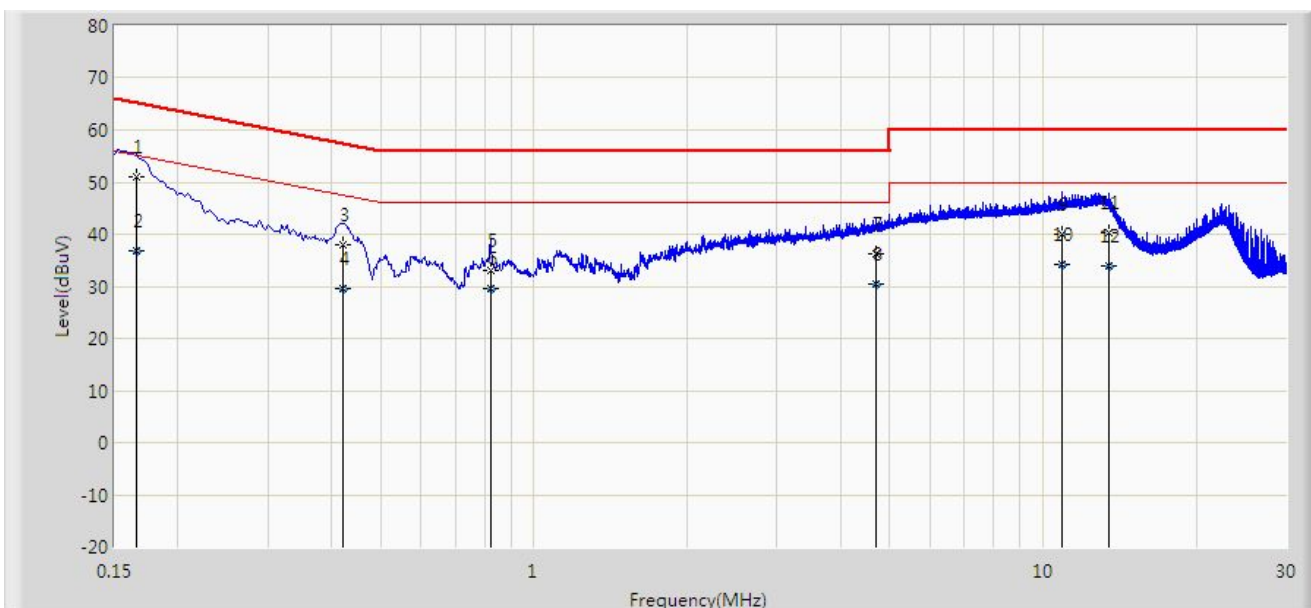


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.162	46.347	36.700	-19.013	65.361	9.647	QP
2			0.162	31.947	22.300	-23.413	55.361	9.647	AV
3			0.413	39.720	30.000	-17.868	57.588	9.720	QP
4		*	0.413	34.720	25.000	-12.868	47.588	9.720	AV
5			0.821	33.745	24.029	-22.255	56.000	9.715	QP
6			0.821	29.464	19.749	-16.536	46.000	9.715	AV
7			3.712	33.187	23.360	-22.813	56.000	9.827	QP
8			3.712	26.152	16.325	-19.848	46.000	9.827	AV
9			6.796	38.817	28.903	-21.183	60.000	9.914	QP
10			6.796	32.610	22.696	-17.390	50.000	9.914	AV
11			12.766	39.576	29.462	-20.424	60.000	10.114	QP
12			12.766	33.681	23.567	-16.319	50.000	10.114	AV

Test Mode: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2022/04/08 - 10:32
Temperature: 22°C	Humidity: 52.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Augleo Wang
Probe: SIP-SR2-ENV216_101684_C	Polarity: Neutral
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 2	

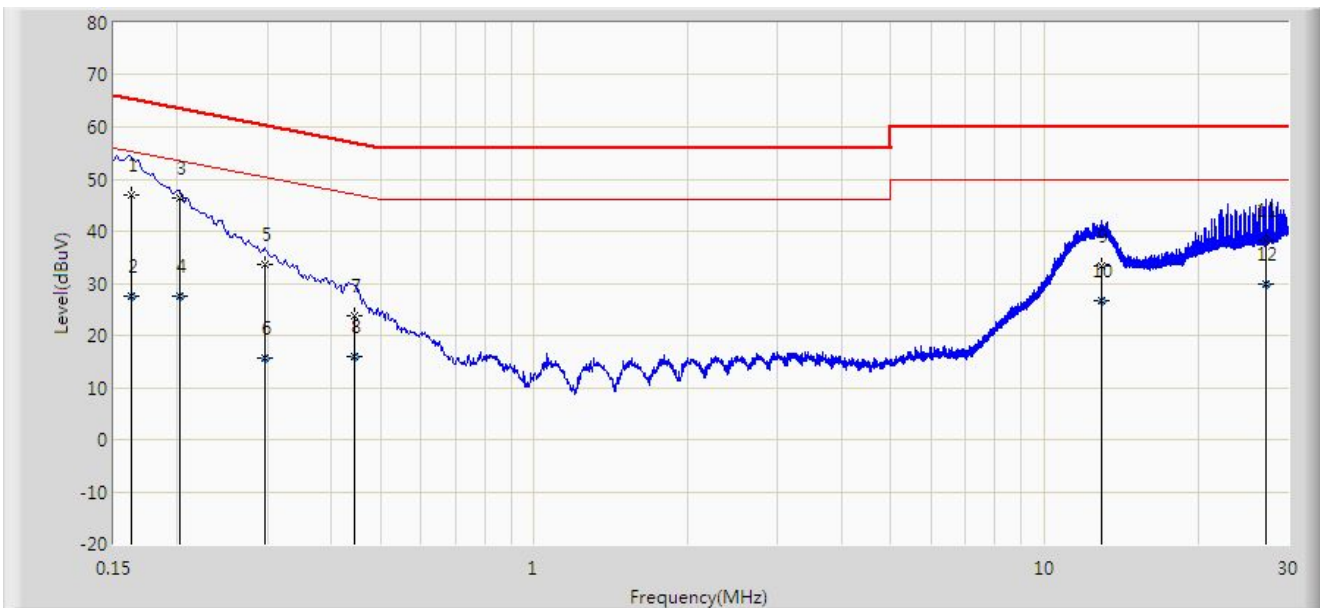


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		*	0.166	51.037	41.400	-14.122	65.158	9.637	QP
2			0.166	36.837	27.200	-18.322	55.158	9.637	AV
3			0.422	37.933	28.223	-19.471	57.404	9.710	QP
4			0.422	29.441	19.731	-17.963	47.404	9.710	AV
5			0.821	33.175	23.465	-22.825	56.000	9.709	QP
6			0.821	29.578	19.869	-16.422	46.000	9.709	AV
7			4.693	36.116	26.290	-19.884	56.000	9.826	QP
8			4.693	30.351	20.525	-15.649	46.000	9.826	AV
9			10.864	39.984	29.914	-20.016	60.000	10.070	QP
10			10.864	34.224	24.154	-15.776	50.000	10.070	AV
11			13.470	40.236	30.102	-19.764	60.000	10.134	QP
12			13.470	33.971	23.837	-16.029	50.000	10.134	AV

Test Mode: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2022/04/08 - 10:47
Temperature: 22°C	Humidity: 52.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Augleo Wang
Probe: SIP-SR2-ENV216_101684_C	Polarity: Line
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 3	

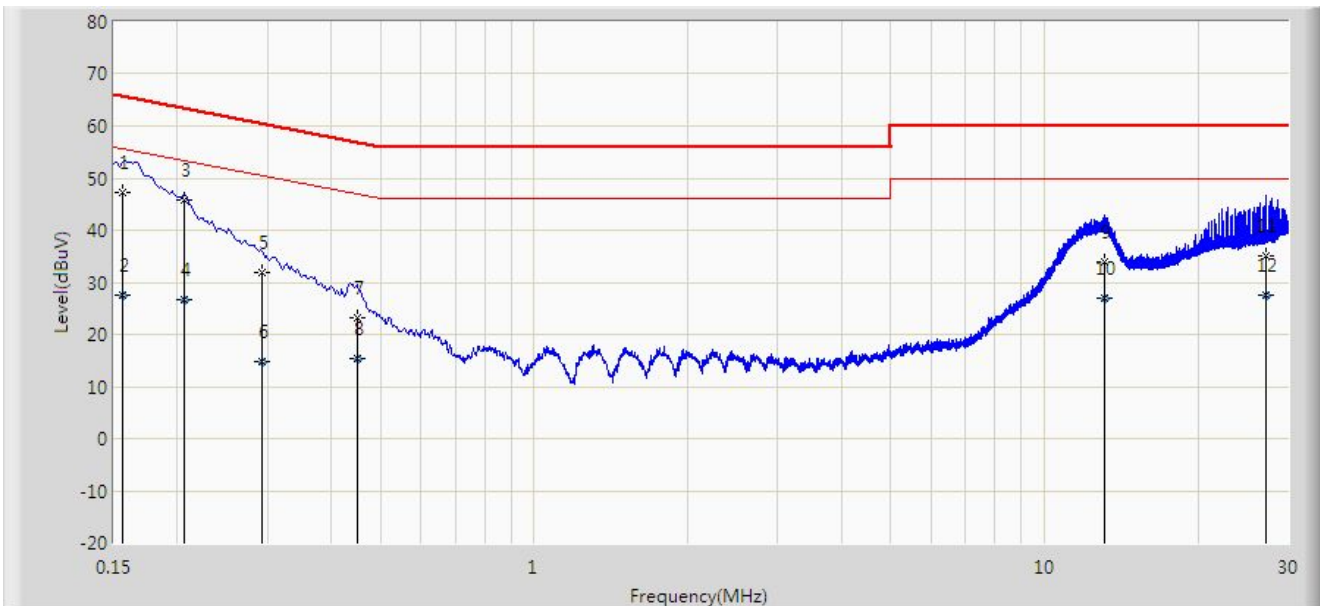


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.162	47.047	37.400	-18.313	65.361	9.647	QP
2			0.162	27.647	18.000	-27.713	55.361	9.647	AV
3		*	0.202	46.302	36.632	-17.236	63.538	9.670	QP
4			0.202	27.403	17.732	-26.135	53.538	9.670	AV
5			0.296	33.693	23.984	-26.654	60.347	9.709	QP
6			0.296	15.753	6.044	-34.594	50.347	9.709	AV
7			0.443	23.756	14.036	-33.259	57.015	9.720	QP
8			0.443	15.810	6.090	-31.204	47.015	9.720	AV
9			12.903	33.352	23.233	-26.648	60.000	10.119	QP
10			12.903	26.784	16.665	-23.216	50.000	10.119	AV
11			27.212	38.238	27.800	-21.762	60.000	10.438	QP
12			27.212	29.938	19.500	-20.062	50.000	10.438	AV

Test Mode: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SIP-SR2	Time: 2022/04/08 - 10:51
Temperature: 22°C	Humidity: 52.3%
Limit: FCC_Part15.107_CE_AC Power_Class B	Engineer: Augleo Wang
Probe: SIP-SR2-ENV216_101684_C	Polarity: Neutral
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.156	47.139	37.500	-18.535	65.674	9.639	QP
2			0.156	27.639	18.000	-28.035	55.674	9.639	AV
3		*	0.206	45.807	36.141	-17.548	63.355	9.666	QP
4			0.206	26.594	16.928	-26.761	53.355	9.666	AV
5			0.292	31.948	22.251	-28.526	60.474	9.697	QP
6			0.292	14.670	4.973	-35.804	50.474	9.697	AV
7			0.449	23.199	13.489	-33.690	56.889	9.710	QP
8			0.449	15.221	5.511	-31.668	46.889	9.710	AV
9			13.072	33.871	23.744	-26.129	60.000	10.127	QP
10			13.072	27.079	16.952	-22.921	50.000	10.127	AV
11			27.213	35.048	24.575	-24.952	60.000	10.473	QP
12			27.213	27.534	17.061	-22.466	50.000	10.473	AV

Test Mode: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

5.3. Radiated Emission

5.3.1. Test Limit

FCC Part 15.109 Class B Limits		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

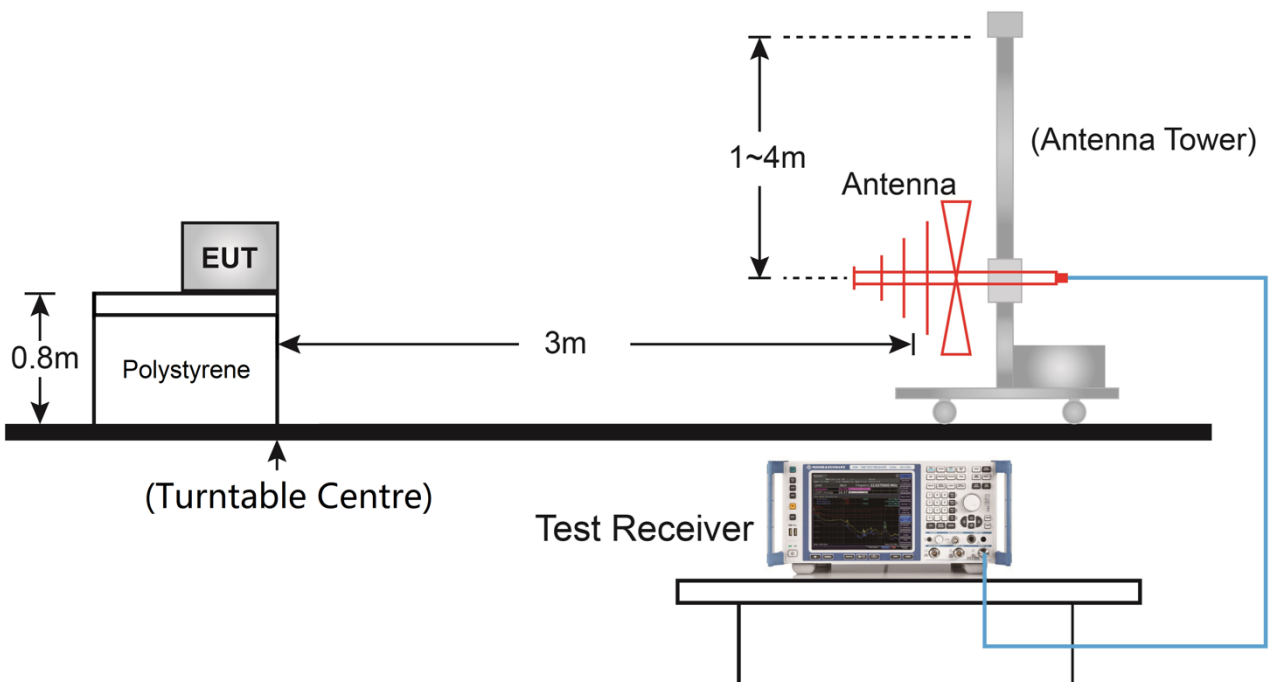
Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

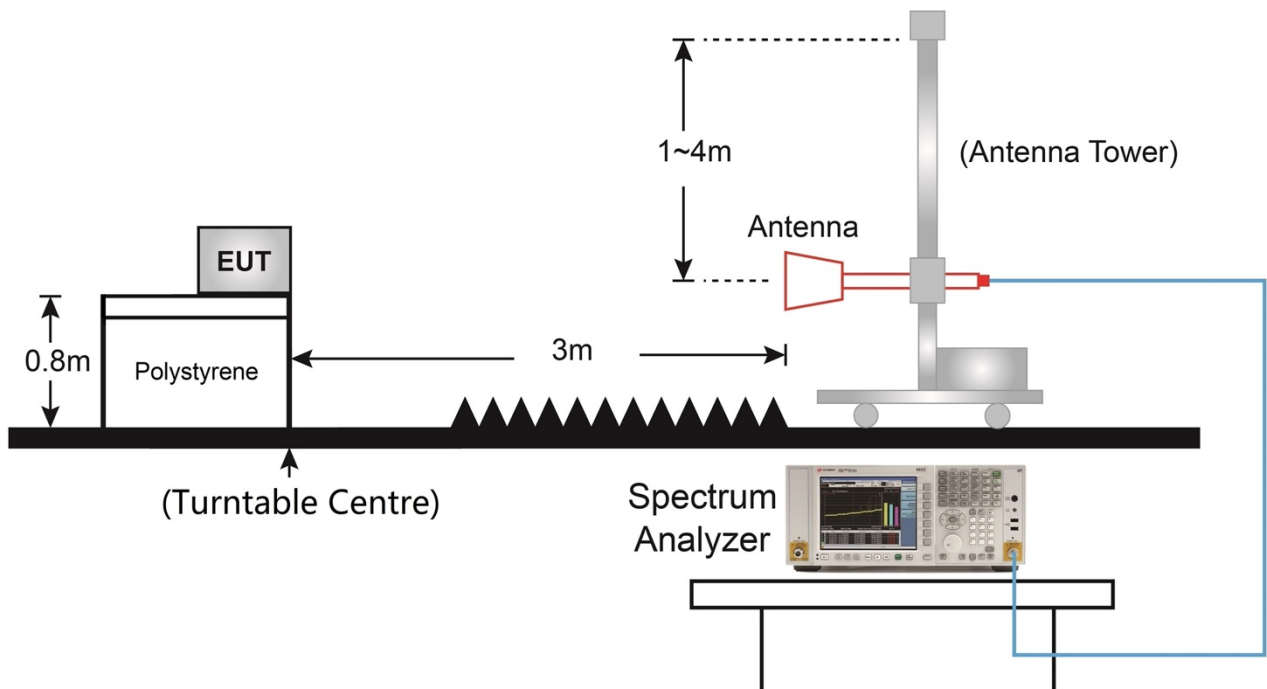
Note 3: E field strength (dB μ V/m) = 20 log E field strength (μ V/m)

5.3.2. Test Setup

Below 1GHz Test Setup:

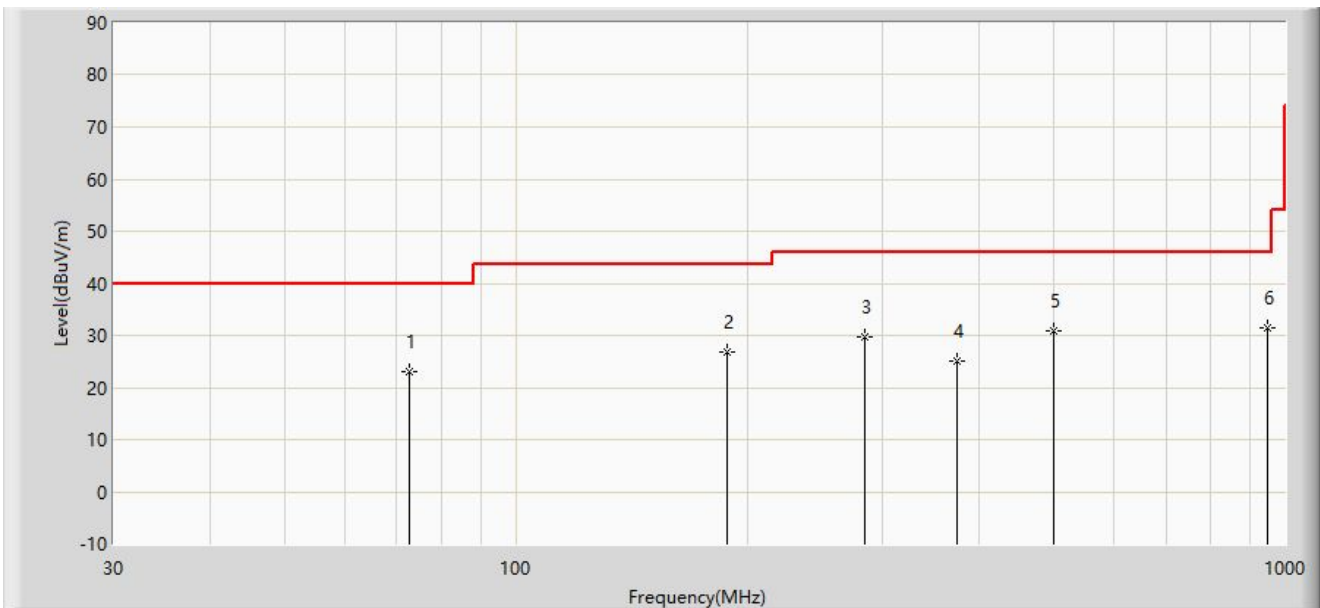


Above 1GHz Test Setup:



5.3.3. Test Result

Site: SIP-AC1	Time: 2022/04/07 - 21:03
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: HIT Dragonfly Access Point	Power: 120V/60Hz
Test Mode 1	



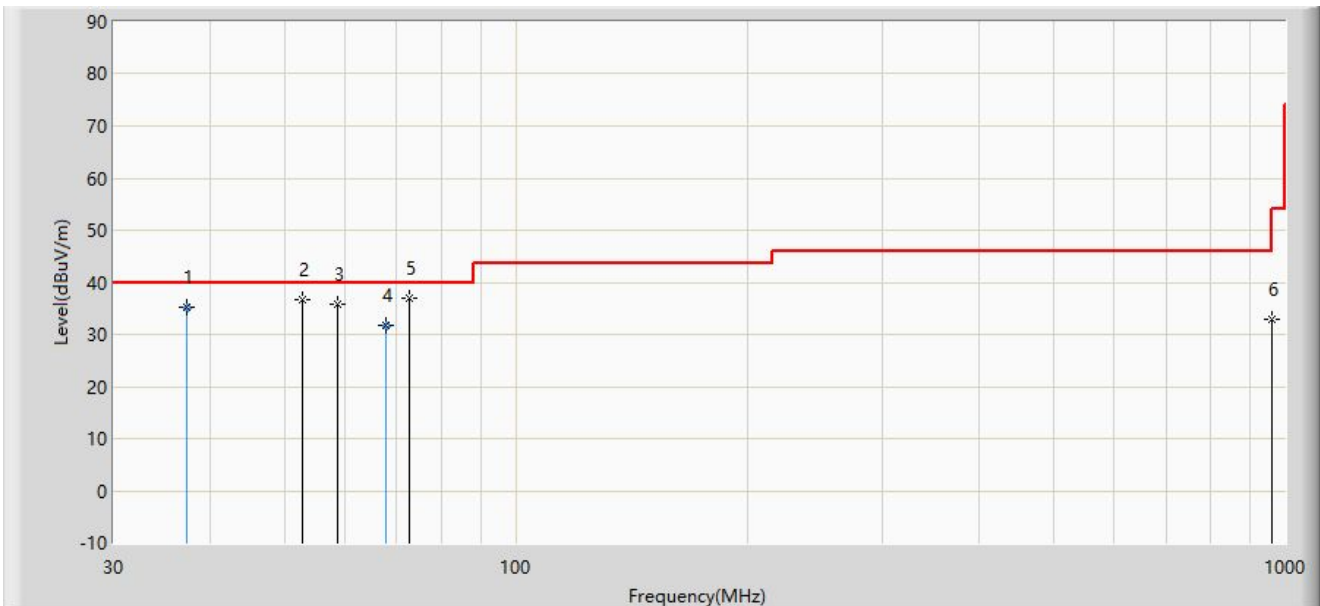
No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			72.680	22.995	7.719	-17.005	40.000	15.276	PK
2			188.595	26.759	11.346	-16.741	43.500	15.412	PK
3			284.625	29.715	11.547	-16.285	46.000	18.168	PK
4			374.835	24.956	4.735	-21.044	46.000	20.221	PK
5			499.965	30.969	8.188	-15.031	46.000	22.781	PK
6		*	950.045	31.404	1.585	-14.596	46.000	29.818	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC1	Time: 2022/04/07 - 21:08
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: HIT Dragonfly Access Point	Power: 120V/60Hz
Test Mode 1	



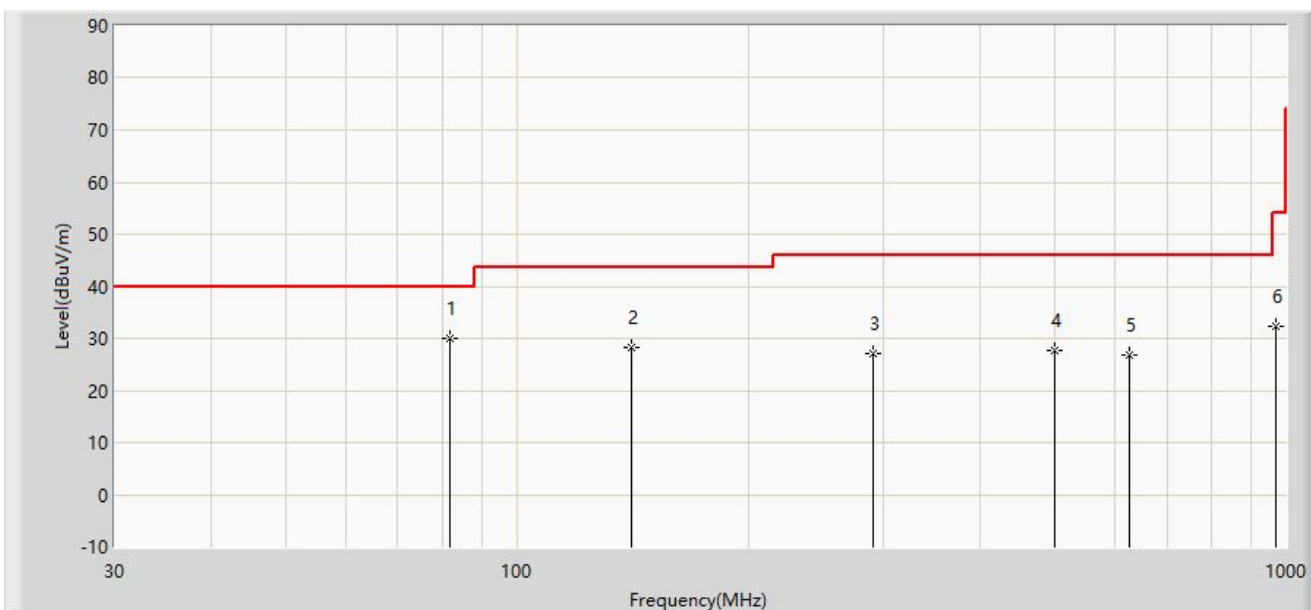
No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1			37.400	35.289	18.200	-4.711	40.000	17.089	QP
2			52.795	36.742	18.807	-3.258	40.000	17.935	PK
3			58.615	35.678	18.132	-4.322	40.000	17.546	PK
4			67.800	31.771	15.600	-8.229	40.000	16.171	QP
5		*	72.680	36.820	21.544	-3.180	40.000	15.276	PK
6			961.685	32.997	2.878	-21.003	54.000	30.119	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC1	Time: 2022/04/07 - 21:13
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 2	



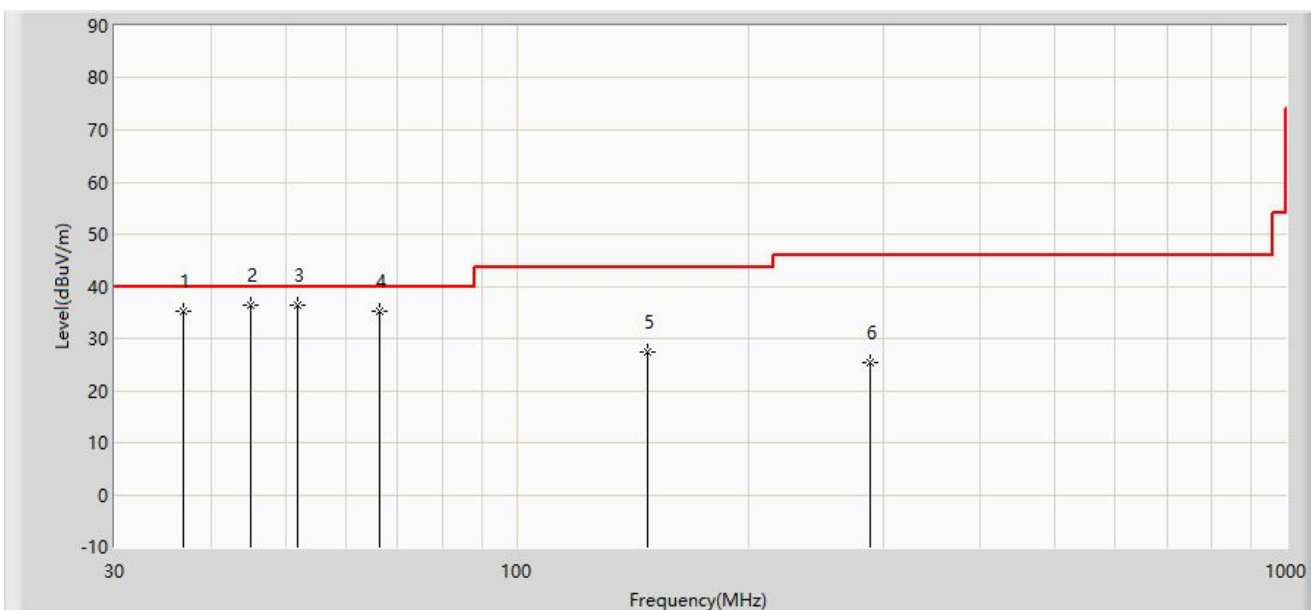
No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		*	81.895	29.950	16.954	-10.050	40.000	12.996	PK
2			141.065	28.333	10.651	-15.167	43.500	17.682	PK
3			290.930	26.989	8.873	-19.011	46.000	18.116	PK
4			499.965	27.773	4.992	-18.227	46.000	22.781	PK
5			625.095	26.823	1.387	-19.177	46.000	25.436	PK
6			968.960	32.454	2.288	-21.546	54.000	30.166	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC1	Time: 2022/04/07 - 21:18
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 2	



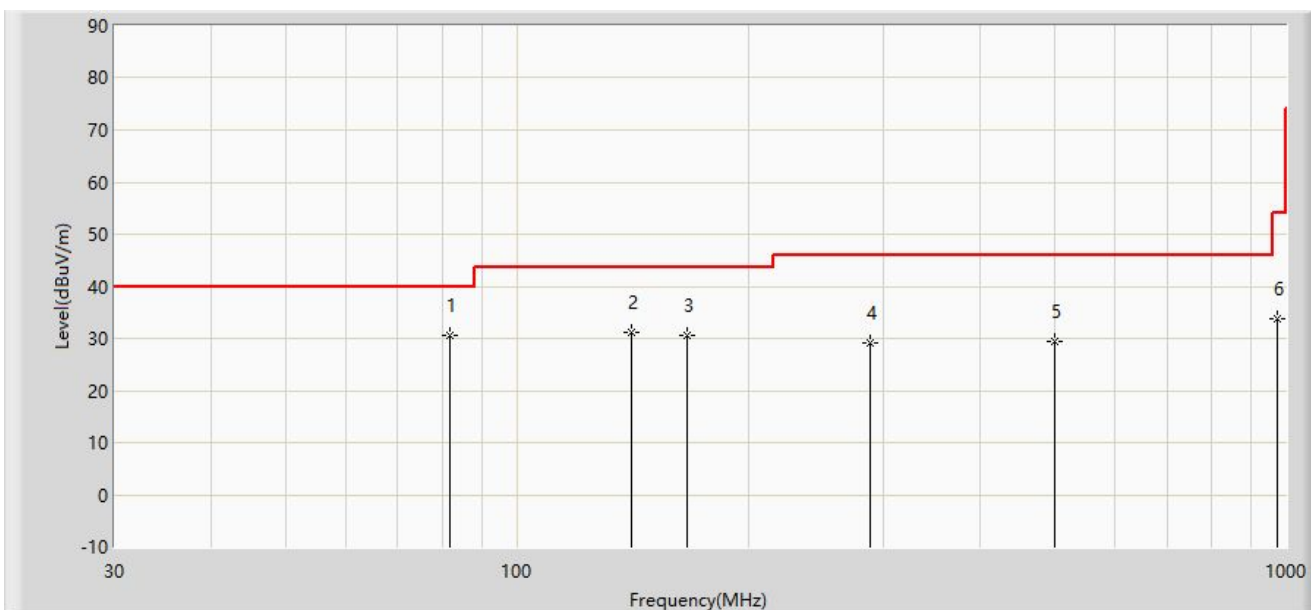
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			36.790	35.198	18.152	-4.802	40.000	17.046	PK
2			45.035	36.249	18.545	-3.751	40.000	17.705	PK
3		*	51.825	36.364	18.458	-3.636	40.000	17.905	PK
4			66.375	35.099	18.581	-4.901	40.000	16.518	PK
5			147.855	27.418	9.243	-16.082	43.500	18.175	PK
6			288.020	25.304	7.227	-20.696	46.000	18.077	PK

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC1	Time: 2022/04/07 - 21:24
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 3	



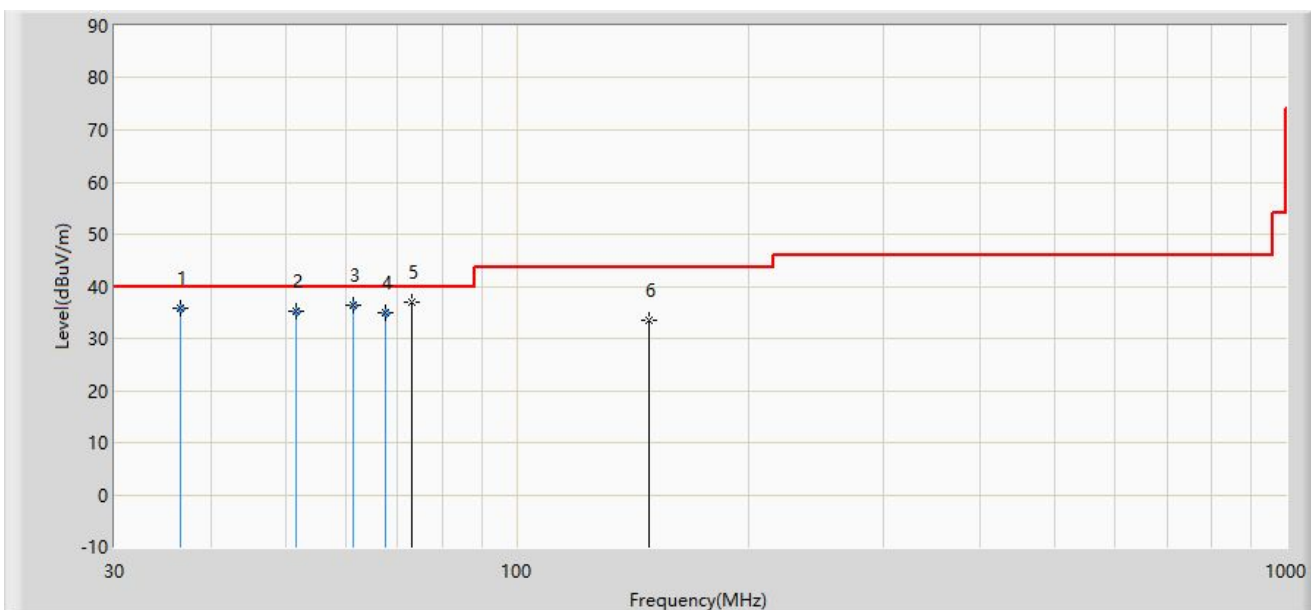
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		*	81.895	30.449	17.453	-9.551	40.000	12.996	PK
2			141.065	31.166	13.484	-12.334	43.500	17.682	PK
3			166.285	30.578	13.062	-12.922	43.500	17.515	PK
4			288.020	29.049	10.972	-16.951	46.000	18.077	PK
5			499.965	29.290	6.509	-16.710	46.000	22.781	PK
6			975.265	33.792	3.746	-20.208	54.000	30.046	PK

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC1	Time: 2022/04/07 - 21:29
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 3	



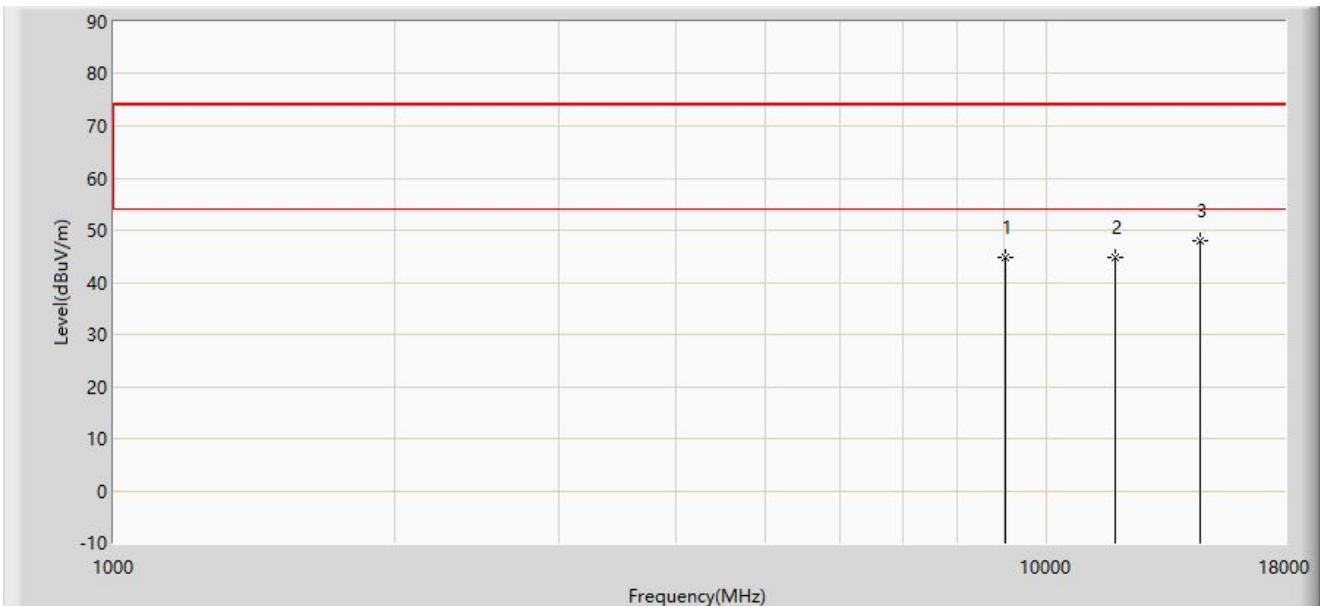
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			36.500	35.870	18.850	-4.130	40.000	17.021	QP
2			51.710	35.201	17.300	-4.799	40.000	17.901	QP
3			61.230	36.473	19.100	-3.527	40.000	17.373	QP
4			67.470	34.950	18.700	-5.050	40.000	16.251	QP
5		*	73.165	36.845	21.687	-3.155	40.000	15.158	PK
6			148.340	33.530	15.330	-9.970	43.500	18.200	PK

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Site: SIP-AC1	Time: 2022/04/07 - 21:43
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_HF907_102862_1-18GHz	Polarity: Horizontal
EUT: HIT Dragonfly Access Point	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			9015.500	44.680	49.231	-29.320	74.000	-4.552	PK
2			11829.000	44.833	47.506	-29.167	74.000	-2.672	PK
3		*	14574.500	47.923	45.749	-26.077	74.000	2.173	PK

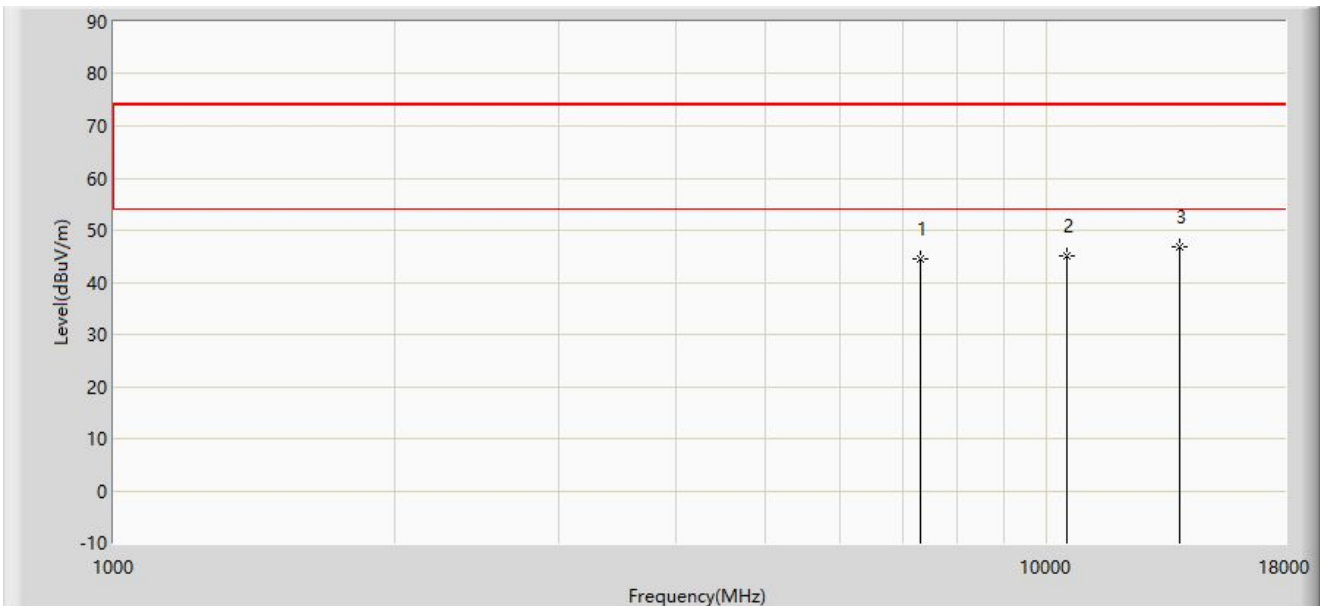
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Time: 2022/04/07 - 21:48
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_HF907_102862_1-18GHz	Polarity: Vertical
EUT: HIT Dragonfly Access Point	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			7315.500	44.433	51.284	-29.567	74.000	-6.850	PK
2			10503.000	44.982	48.261	-29.018	74.000	-3.279	PK
3		*	13877.500	46.827	46.117	-27.173	74.000	0.710	PK

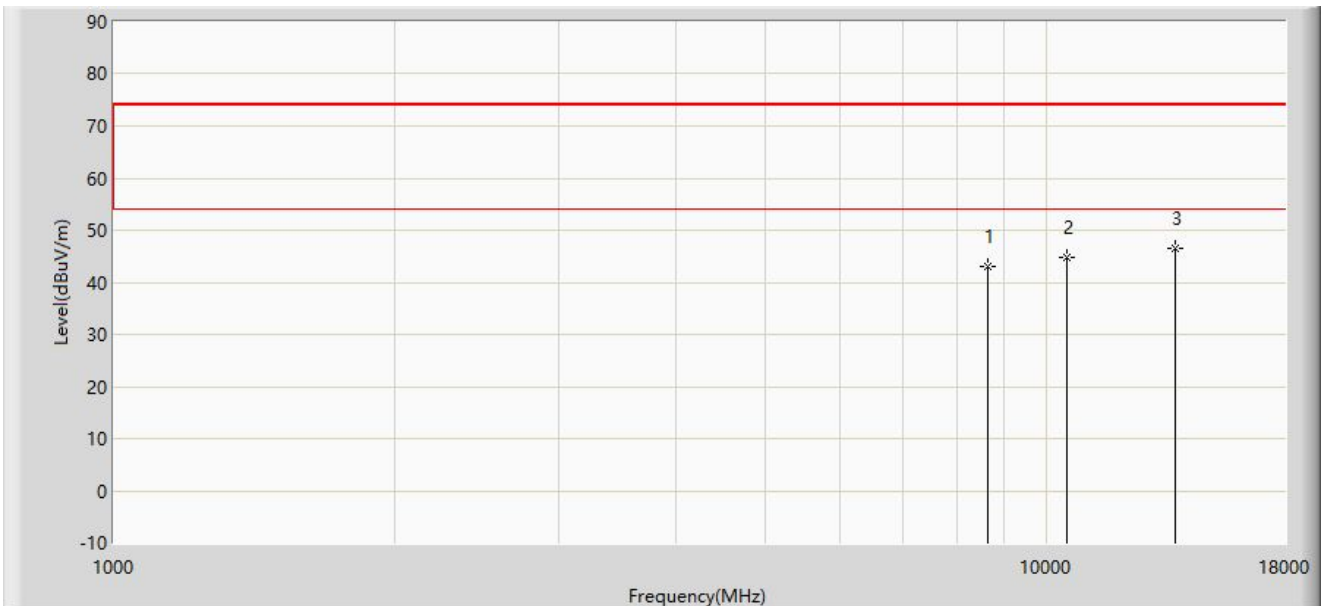
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Time: 2022/04/07 - 21:52
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_HF907_102862_1-18GHz	Polarity: Horizontal
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			8633.000	43.162	47.621	-30.838	74.000	-4.459	PK
2			10520.000	44.799	48.525	-29.201	74.000	-3.726	PK
3		*	13733.000	46.499	45.857	-27.501	74.000	0.642	PK

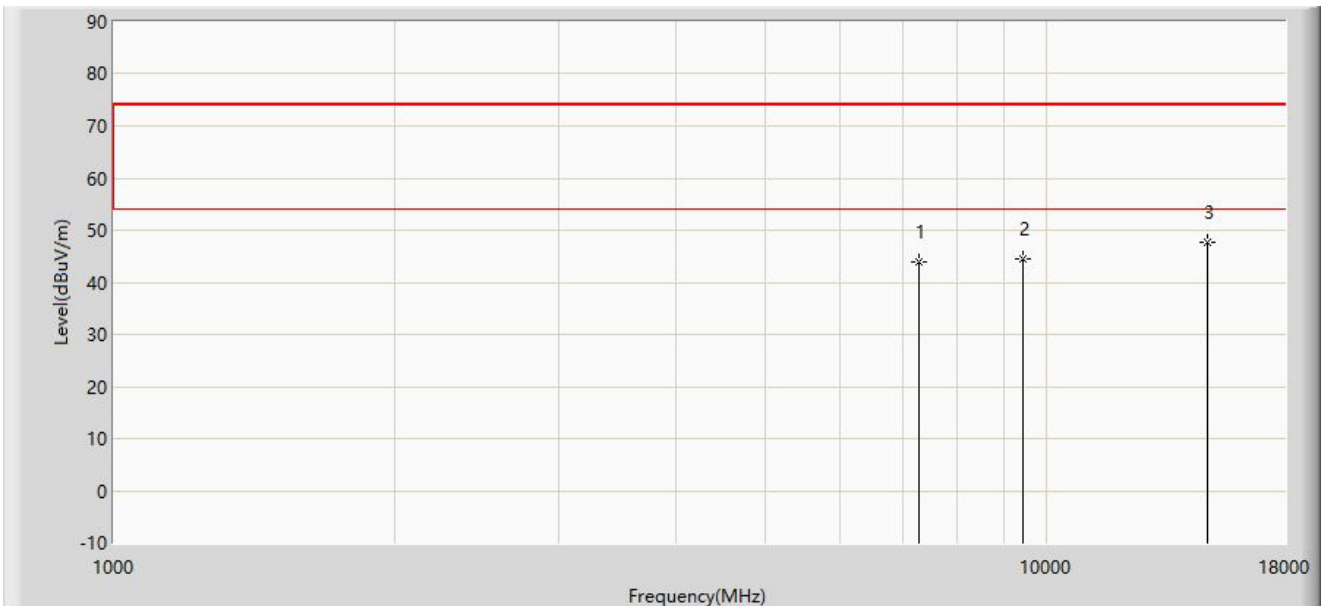
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Time: 2022/04/07 - 21:57
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_HF907_102862_1-18GHz	Polarity: Vertical
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			7307.000	43.943	50.948	-30.057	74.000	-7.005	PK
2			9415.000	44.521	48.966	-29.479	74.000	-4.446	PK
3		*	14863.500	47.640	45.084	-26.360	74.000	2.556	PK

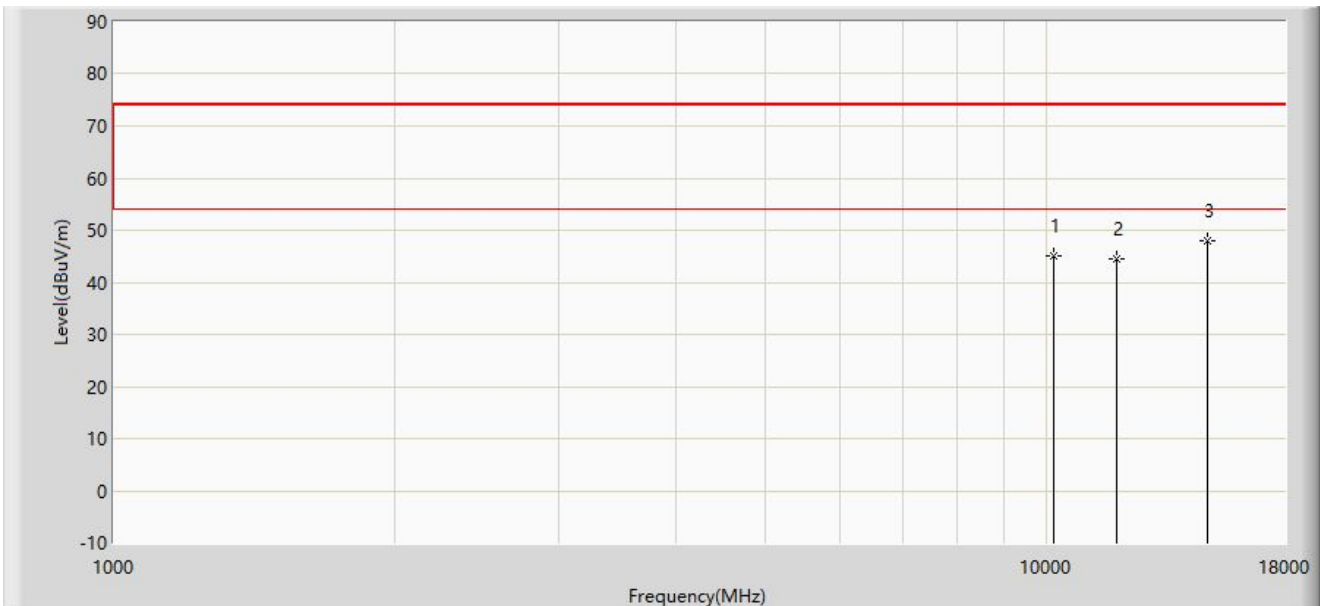
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Time: 2022/04/07 - 22:06
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_HF907_102862_1-18GHz	Polarity: Horizontal
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			10163.000	44.993	48.893	-29.007	74.000	-3.899	PK
2			11888.500	44.633	47.209	-29.367	74.000	-2.576	PK
3		*	14855.000	48.106	45.597	-25.894	74.000	2.510	PK

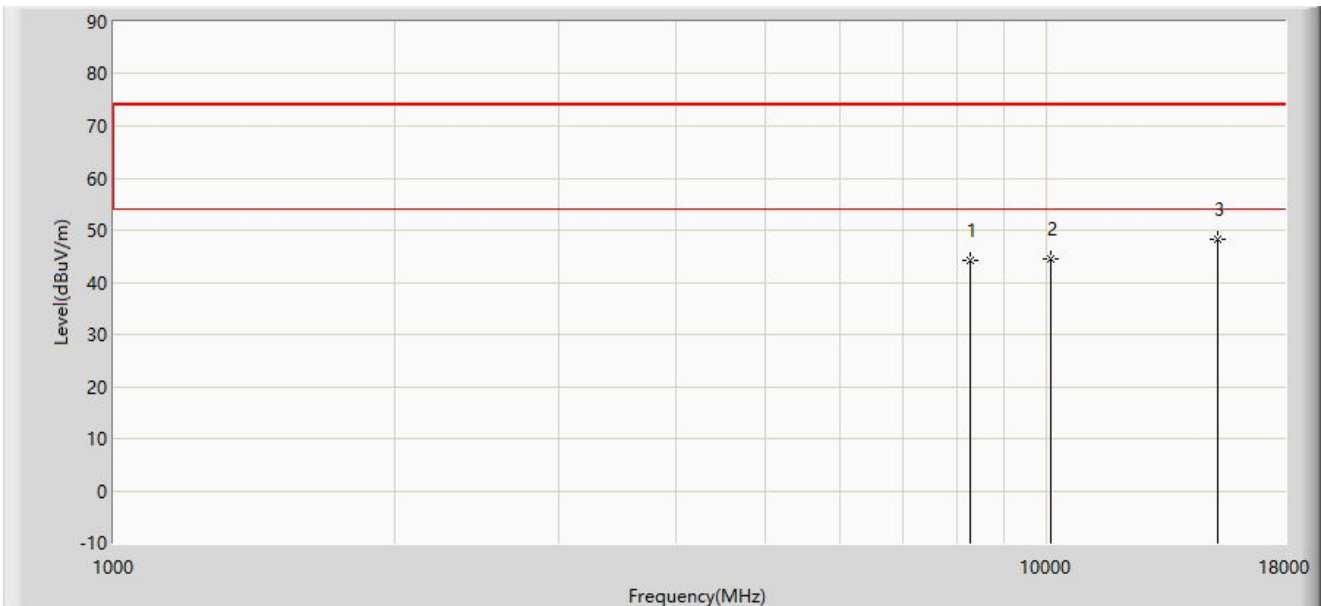
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Time: 2022/04/07 - 22:12
Temperature: 23°C	Humidity: 53.5%
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Allen Zou
Probe: SIP-AC1_HF907_102862_1-18GHz	Polarity: Vertical
EUT: HIT Dragonfly Access Point	Power: By PoE
Test Mode 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1			8284.500	44.225	49.241	-29.775	74.000	-5.016	PK
2			10112.000	44.586	48.288	-29.414	74.000	-3.702	PK
3		*	15220.500	48.381	45.206	-25.619	74.000	3.176	PK

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: AV measurement was not performed when peak measure level was lower than the AV limit.

Note 3: The amplitude of radiated emissions (frequency range from 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Appendix A - Test Setup Photograph

Refer to "2201RSU008-UTV1" file.

Appendix B - EUT Photograph

Refer to "2201RSU008-UE" file.