

Test Report No:
25B0740R-RFUSV01S-C

TEST REPORT

FCC Rules & Regulations

Product Name	Farmfit Unity
Brand Name	Farmfit LLC
Model No.	FFUNITY1915, FCUNITY1915
FCC ID	2BEWM-FFUNITY1915
Contains FCC ID	MCQ-XBEE3, SH6MDBT50Q
Applicant's Name / Address	Farmfit LLC 22575 State Hwy 6 South, Navasota, Texas 77868, United States
Manufacturer's Name	Farmfit LLC
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Verdict Summary	IN COMPLIANCE
Documented by Jinn Chen	
Approved by Alan Chen	
Date of Receipt	2025/11/26
Date of Issue	2026/03/19
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	2026/03/19

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
4	20dB Bandwidth	PASS	-
5	Carrier Frequency Separation	PASS	-
6	Maximum Peak Conducted Output Power	PASS	-
7	Number of Hopping Frequency	PASS	-
8	Dwell Time	PASS	-
9	Antenna Port Conducted Emission	PASS	-
10	Radiated Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1. General Information

1.1. EUT Description

Frequency Range	902~ 928 MHz
Operating Frequency / Channel Number	902.106 ~ 927.398 MHz / 256 Channels
Type of Modulation	FHSS

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	Power Supply	Mean Well	OWA-60U-12	Input: 100-240Vac 1.2A 50/60Hz Output: +12Vdc --- 5.0A	With power cable: Non-shielded, 1.5m

The difference for each model is shown as below:

Model No.	Ethernet	Serial ports
FFUNITY1915	V	V
FCUNITY1915	X	X

From the above models, model: FFUNITY1915 was selected as representative model for the test and its data was recorded in this report.

(V = Configured, X = Not Configured)

Antenna Information				
Item.	Brand Name	Part No.	Type	Gain (dBi)
1	L-Com	HG908P	Panel	8.00
2	Pulse Electronics	W1063	Dipole	1.00

Note: The antenna of EUT conforms to FCC 15.203.

Working Frequency of Each Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	902.106	64	908.454	128	914.802	192	921.149
1	902.205	65	908.553	129	914.901	193	921.249
2	902.304	66	908.652	130	915.000	194	921.348
3	902.404	67	908.751	131	915.099	195	921.447
4	902.503	68	908.851	132	915.198	196	921.546
5	902.602	69	908.950	133	915.297	197	921.645
6	902.701	70	909.049	134	915.397	198	921.744
7	902.800	71	909.148	135	915.496	199	921.844
8	902.899	72	909.247	136	915.595	200	921.943
9	902.999	73	909.346	137	915.694	201	922.042
10	903.098	74	909.446	138	915.793	202	922.141
11	903.197	75	909.545	139	915.893	203	922.240
12	903.296	76	909.644	140	915.992	204	922.340
13	903.395	77	909.743	141	916.091	205	922.439
14	903.495	78	909.842	142	916.190	206	922.538
15	903.594	79	909.942	143	916.289	207	922.637
16	903.693	80	910.041	144	916.388	208	922.736
17	903.792	81	910.140	145	916.488	209	922.835
18	903.891	82	910.239	146	916.587	210	922.935
19	903.990	83	910.338	147	916.686	211	923.034
20	904.090	84	910.437	148	916.785	212	923.133
21	904.189	85	910.537	149	916.884	213	923.232
22	904.288	86	910.636	150	916.984	214	923.331
23	904.387	87	910.735	151	917.083	215	923.431
24	904.486	88	910.834	152	917.182	216	923.530
25	904.586	89	910.933	153	917.281	217	923.629
26	904.685	90	911.033	154	917.380	218	923.728
27	904.784	91	911.132	155	917.480	219	923.827
28	904.883	92	911.231	156	917.579	220	923.926
29	904.982	93	911.330	157	917.678	221	924.026
30	905.082	94	911.429	158	917.777	222	924.125
31	905.181	95	911.528	159	917.876	223	924.224
32	905.280	96	911.628	160	917.975	224	924.323
33	905.379	97	911.727	161	918.075	225	924.422

Working Frequency of Each Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
34	905.478	98	911.826	162	918.174	226	924.522
35	905.577	99	911.925	163	918.273	227	924.621
36	905.677	100	912.024	164	918.372	228	924.720
37	905.776	101	912.124	165	918.471	229	924.819
38	905.875	102	912.223	166	918.571	230	924.918
39	905.974	103	912.322	167	918.670	231	925.018
40	906.073	104	912.421	168	918.769	232	925.117
41	906.173	105	912.520	169	918.868	233	925.216
42	906.272	106	912.620	170	918.967	234	925.315
43	906.371	107	912.719	171	919.066	235	925.414
44	906.470	108	912.818	172	919.166	236	925.513
45	906.569	109	912.917	173	919.265	237	925.613
46	906.668	110	913.016	174	919.364	238	925.712
47	906.768	111	913.115	175	919.463	239	925.811
48	906.867	112	913.215	176	919.562	240	925.910
49	906.966	113	913.314	177	919.662	241	926.009
50	907.065	114	913.413	178	919.761	242	926.109
51	907.164	115	913.512	179	919.860	243	926.208
52	907.264	116	913.611	180	919.959	244	926.307
53	907.363	117	913.711	181	920.058	245	926.406
54	907.462	118	913.810	182	920.157	246	926.505
55	907.561	119	913.909	183	920.257	247	926.604
56	907.660	120	914.008	184	920.356	248	926.704
57	907.759	121	914.107	185	920.455	249	926.803
58	907.859	122	914.206	186	920.554	250	926.902
59	907.958	123	914.306	187	920.653	251	927.001
60	908.057	124	914.405	188	920.753	252	927.100
61	908.156	125	914.504	189	920.852	253	927.200
62	908.255	126	914.603	190	920.951	254	927.299
63	908.355	127	914.702	191	921.050	255	927.398

1.2. EUT Information

EUT Power Type	From Adapter / PoE
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1.3. Testing Location Information

USA	FCC Designation Number: TW0033 / FCC Registration Number: 647365
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No. 85, Wenlin St., Linkou Dist., New Taipei City 244017, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual	Test Date	Tested By
AC Power Line Conducted Emission	Temperature (°C)	10~40 °C	18.2~20.5°C	2025/12/24 ~ 2026/01/08	Neko Chen
	Humidity (%RH)	10~90 %	59.7~65.2 %		
RF Conducted Emission	Temperature (°C)	10~40 °C	17.3~25.2 °C	2025/11/26~ 2026/01/09	Kevin Lai
	Humidity (%RH)	10~90 %	52.4~61.6 %		
Radiated Emission	Temperature (°C)	10~40 °C	17.3~19.2 °C	2025/12/19 ~ 2025/12/27	Rock Liang
	Humidity (%RH)	10~90 %	65.8~66.5 %		Ashton Chiu

1.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty
AC Power Line Conducted Emission	± 3.50 dB
20dB Bandwidth	± 1580.61 Hz
Carrier Frequency Separation	± 1580.61 Hz
Maximum Peak Conducted Output Power	Spectrum Analyzer: ± 2.13 dB Power Meter: ± 1.05 dB
Number of Hopping Frequency	N/A
Dwell Time	± 0.62 %
Antenna Port Conducted Emission	± 2.13 dB
Radiated Emission	9 kHz~30 MHz: ± 3.30 dB 30 MHz~1 GHz: ± 5.19 dB 1 GHz~18 GHz: ± 4.46 dB 18 GHz~40 GHz: ± 4.19 dB
Duty Cycle	± 0.62 %

1.5. List of Test Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2025/04/28	2026/04/27
V	Two-Line V-Network	R&S	ENV216	101306	2024/04/01	2026/03/31
V	Two-Line V-Network	R&S	ENV216	101307	2025/08/06	2027/08/05
V	Coaxial Cable	SUHNER	RG400_BNC	RF001	2025/01/10	2026/01/09

Note:

1. Two-Line V-Network is calibrated every two years, the other equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

For Conducted Measurements / HY-SR02

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Spectrum Analyzer	R&S	FSV30	103467	2025/05/29	2026/05/28
V	Spectrum Analyzer	KEYSIGHT	N9010A	MY54510317	2025/08/04	2026/08/03
V	Peak Power Analyzer	KEYSIGHT	8990B	MY51000539	2025/05/05	2026/05/04
V	Wideband Power Sensor	KEYSIGHT	N1923A	MY59240002	2025/05/07	2026/05/06
V	Wideband Power Sensor	KEYSIGHT	N1923A	MY59240003	2025/05/07	2026/05/06

Note:

1. All equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version : DTC_RF_Tool_Release V2.0.37

For Radiated Measurements /HY-CB03

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	TESEQ	HLA6121	49611	2025/02/18	2026/02/17
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-0675	2025/08/14	2027/08/13
	Horn Antenna	Com-Power	AH-840	101100	2025/10/07	2027/10/06
V	Horn Antenna	RF SPIN	DRH18-E	210507A18ES	2024/05/15	2026/05/14
V	Pre-Amplifier	SGH	SGH0301-9	20211007-11	2025/01/10	2026/01/09
V	Pre-Amplifier	SGH	PRAMP118	20200701	2025/01/10	2026/01/09
	Pre-Amplifier	EMCI	EMC184045SE	980369	2025/01/10	2026/01/09
	Coaxial Cable	EMCI	EMC102-KM-KM-600	1160311	2025/01/10	2026/01/09
	Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242	2025/01/10	2026/01/09
V	Filter	MICRO TRONICS	HPM50108	G525	2025/01/05	2026/01/04
V	EMI Test Receiver	R&S	ESR3	102793	2025/12/01	2026/11/30
V	Spectrum Analyzer	R&S	FSV3044	101114	2025/02/26	2026/02/25
V	Coaxial Cable	SGH	SGH18	2021005-1	2025/01/10	2026/01/09
V	Coaxial Cable	SGH	SGH18	202108-4	2025/01/10	2026/01/09
V	Coaxial Cable	SGH	HA800	GD20110223-1	2025/01/10	2026/01/09
V	Coaxial Cable	SGH	HA800	GD20110222-8	2025/01/10	2026/01/09

Note:

1. Bi-Log Antenna and Horn Antenna are calibrated every two years, the other equipment is calibrated every year.
2. The test instruments marked with "V" are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	AC 120V/60Hz by Adapter / DC 48V by PoE

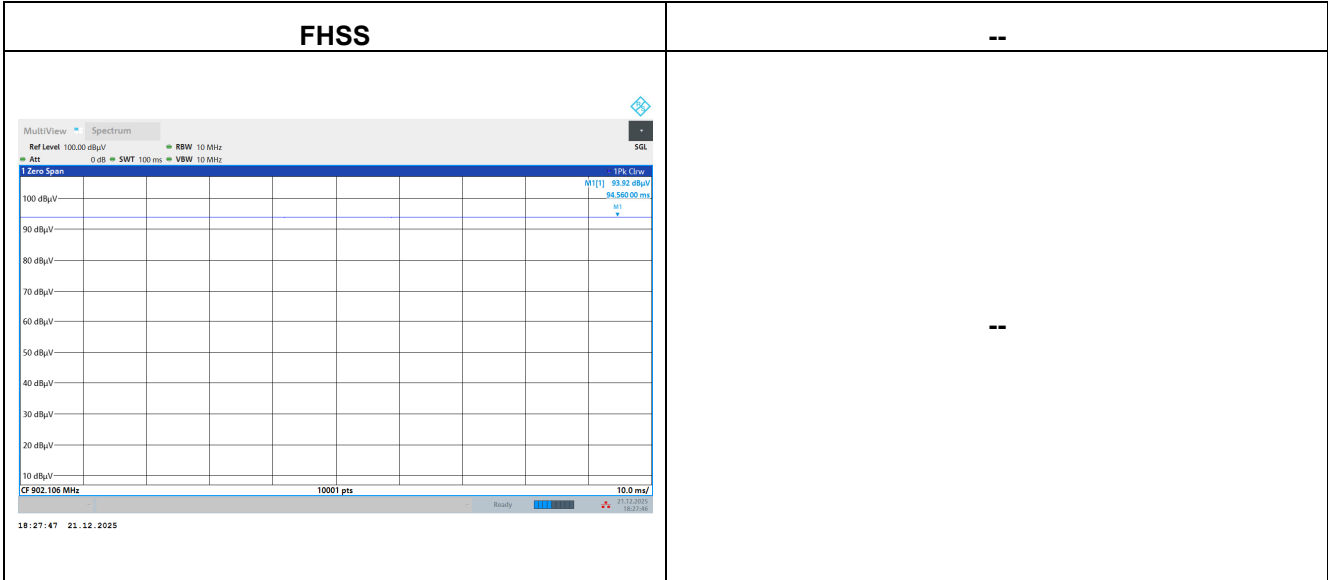
2.2. Test Frequency Mode

Test Software Version	Tera Term / Version 4.106
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Modulation	Frequency (MHz)	Power Setting
FHSS	902.106	20
	915.000	20
	927.398	20

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
FHSS	--	--	100	0.00



2.4. Measurement Configuration

Test Mode	Mode 1 (Transmit)	FHSS
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Note:

- Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- For radiated emissions below 1 GHz and AC power line conducted emissions, all modes of operation were investigated, and the worst-case emissions are reported.
- The radiation measurements are performed in the X, Y, and Z axis positions. Only the worst case is shown in the report.

2.5. Tested System Details

For Adapter

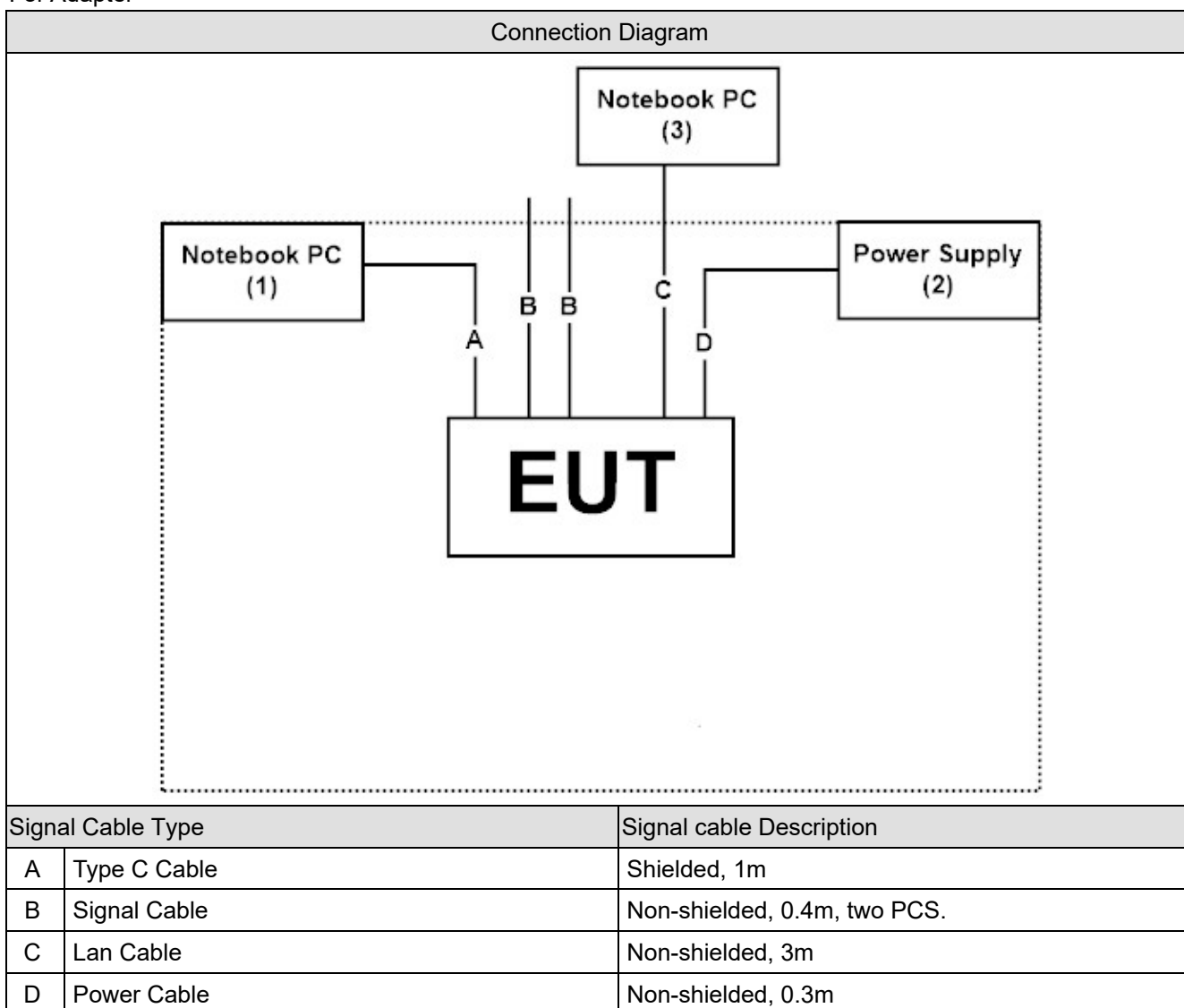
No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Notebook PC	ASUS	P5430U	G8NXC07J11032C	N/A
2	Power Supply	Mean Well	OWA-60U-12	N/A	N/A
3	Notebook PC	DELL	Latitude 5501	GS9GL13	N/A

For PoE

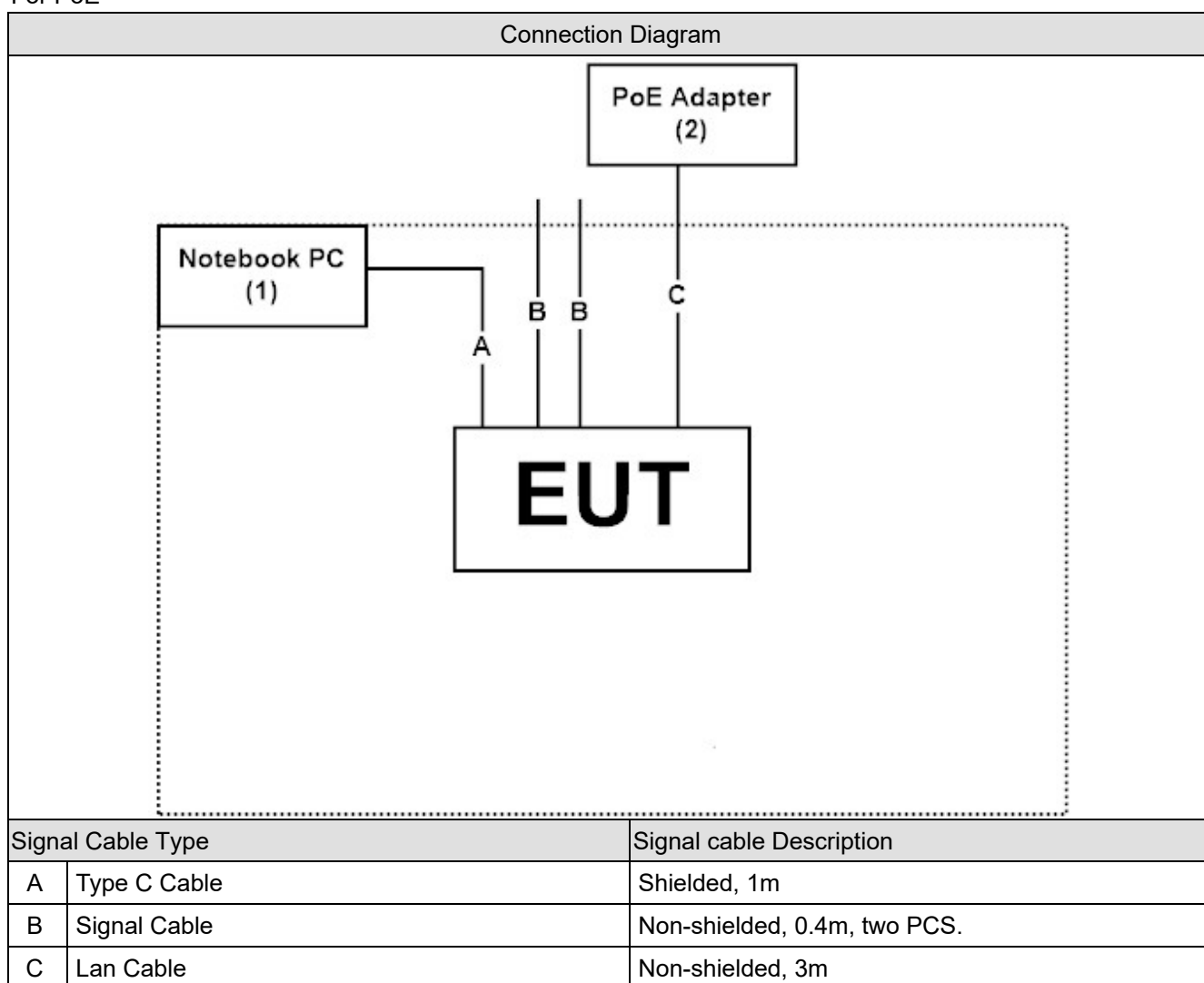
No.	Equipment	Brand Name	Model No.	Serial No.	Power Cord
1	Notebook PC	ASUS	P5430U	G8NXC07J11032C	N/A
2	PoE Adapter	CERIO	POE-S48V2	A1BWIG00034	N/A

2.6. Configuration of Tested System

For Adapter



For PoE

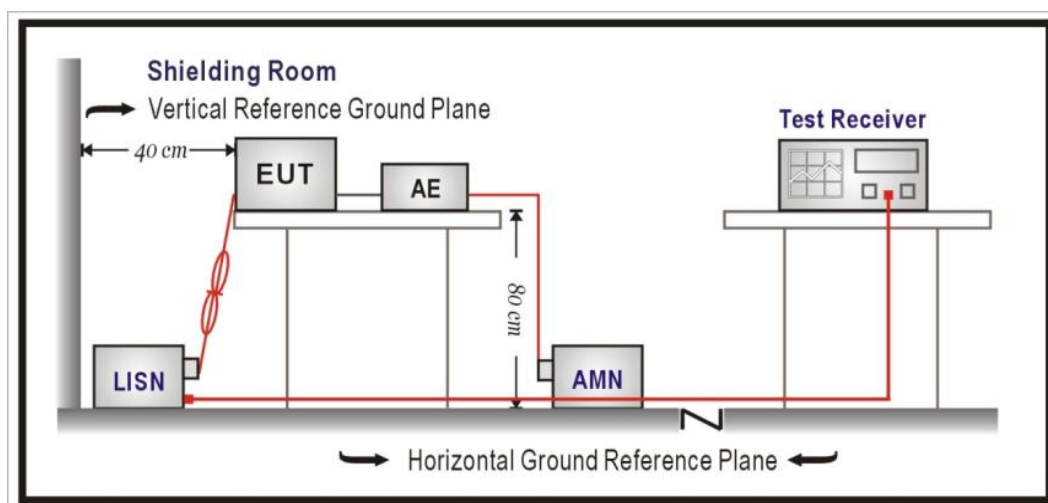


2.7. EUT Operating Procedures

1.	Setup the EUT as shown in Section 2.6.
2.	Execute software "Tera Term / Version 4.106" on the Notebook PC.
3.	Configure the test mode, the test channel, and the data rate.
4.	Verify that the EUT works properly.

3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

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

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

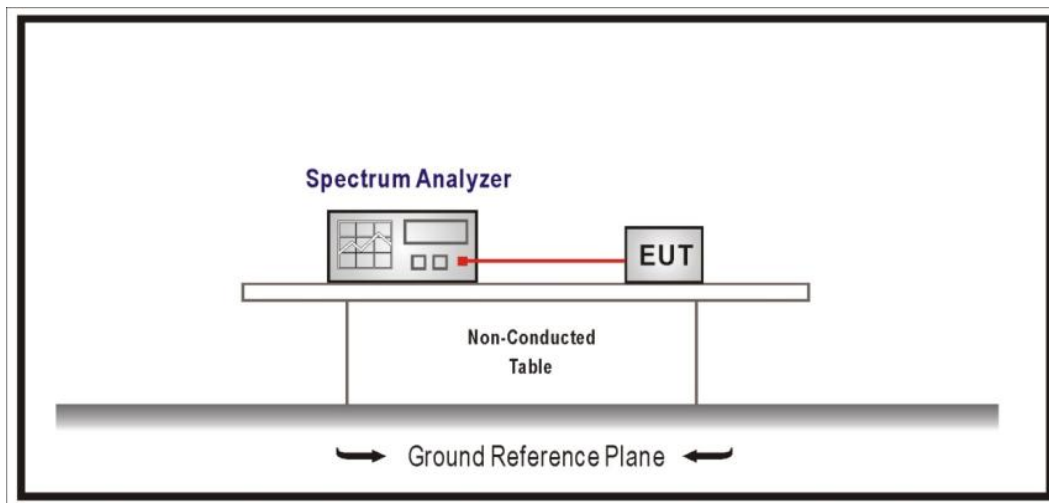
The EUT was setup according to ANSI C63.10-2020 for AC Power Line Conducted Emissions.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. 20dB Bandwidth

4.1. Test Setup



4.2. Test Limit

N/A

4.3. Test Procedures

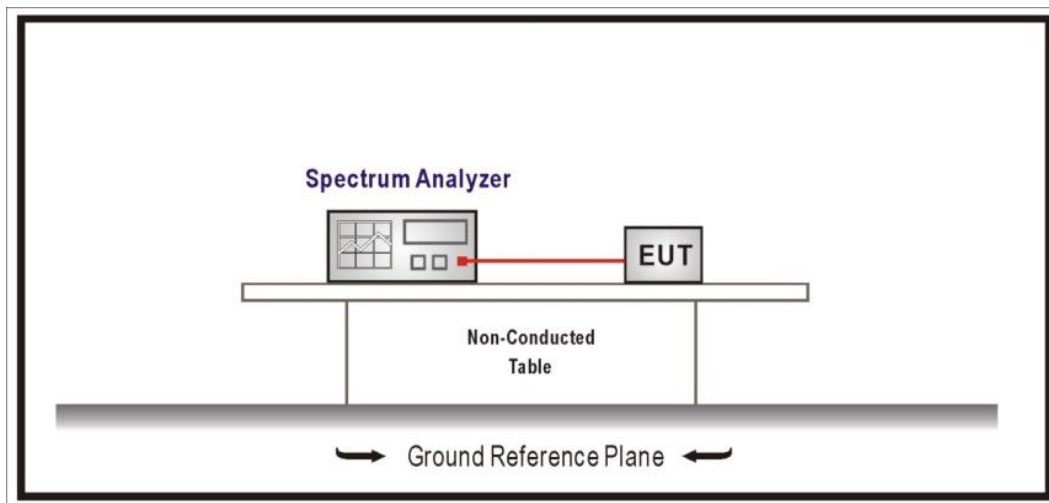
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

4.4. Test Result of 20dB Bandwidth

Refer as Appendix B

5. Carrier Frequency Separation

5.1. Test Setup



5.2. Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400 ~ 2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with a Maximum Conducted Output Power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

5.3. Test Procedures

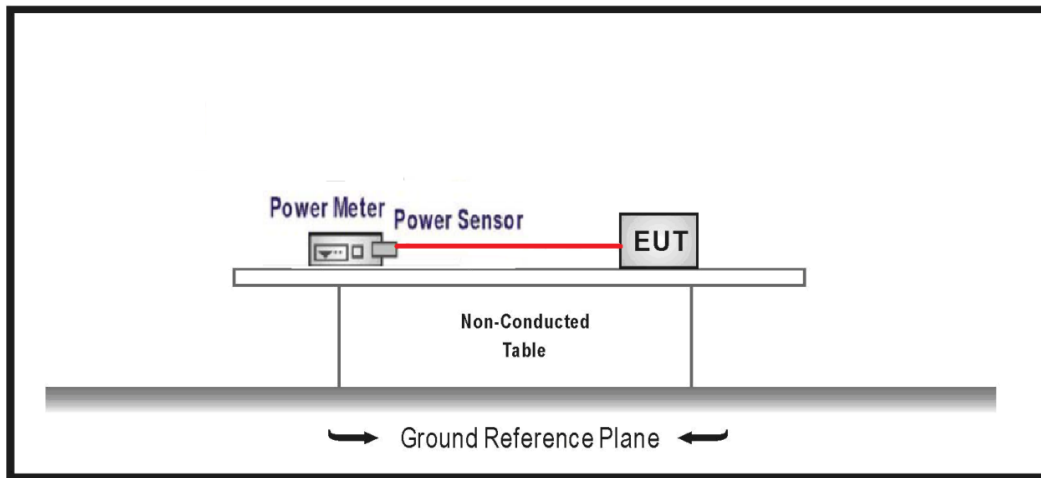
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

5.4. Test Result of Carrier Frequency Separation

Refer as Appendix C

6. Maximum Peak Conducted Output Power

6.1. Test Setup



6.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band:

1. Number of Hopping Frequencies ≥ 50 : 1 watt (30dBm)
2. $50 >$ Number of Hopping Frequencies ≥ 25 : 0.25 watt (23.98dBm)

For frequency hopping systems operating in the 2400 ~ 2483.5 MHz band:

1. Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)
2. $75 >$ Number of Hopping Frequencies ≥ 15 : 0.125 watts (20.97dBm)

For frequency hopping systems operating in the 5725 ~ 5850 MHz band:

Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)

6.3. Test Procedures

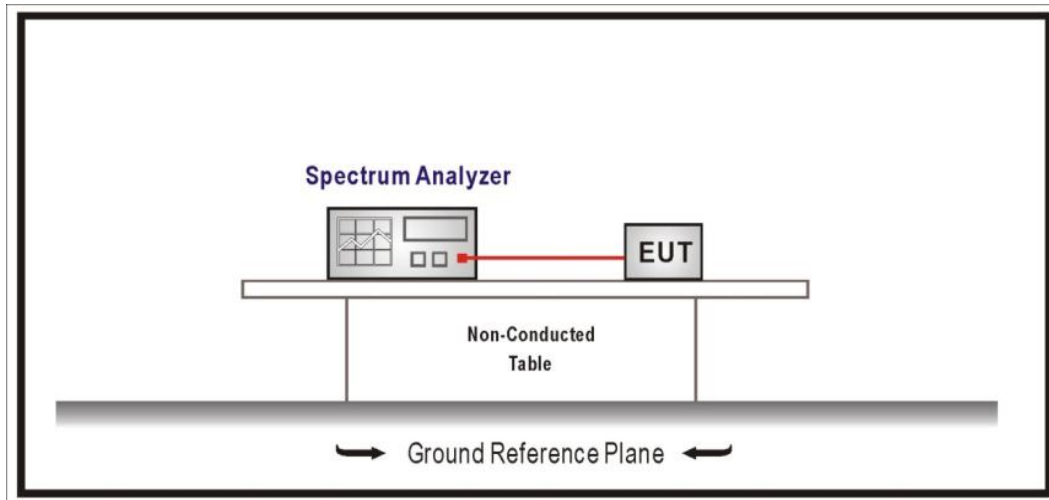
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

6.4. Test Result of Maximum Peak Conducted Output Power

Refer as Appendix D

7. Number of Hopping Frequency

7.1. Test Setup



7.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Frequency hopping systems operating in the 5725 ~ 5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

7.3. Test Procedure

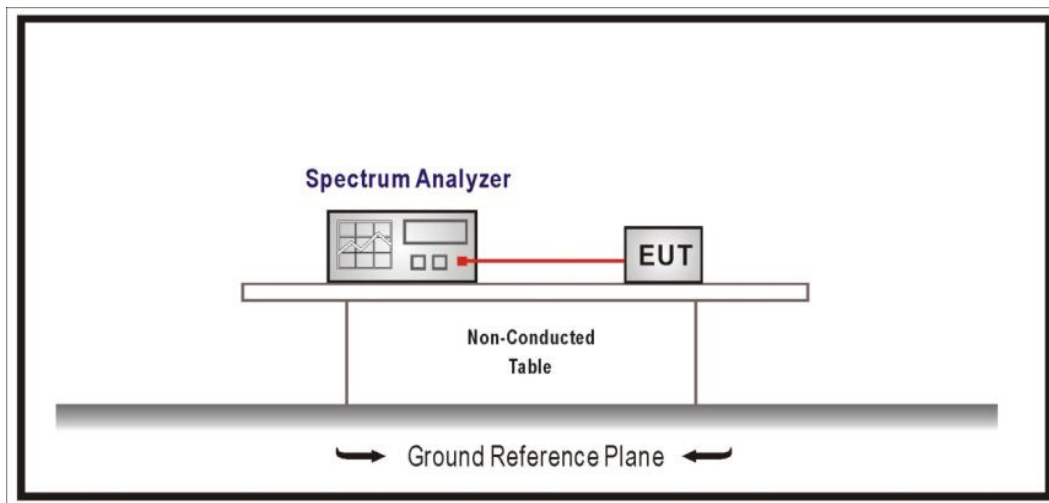
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

7.4. Test Result of Number of Hopping Frequency

Refer as Appendix E

8. Dwell Time

8.1. Test Setup



8.2. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

For frequency hopping systems operating in the 2400-2483.5 MHz bands. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

8.3. Test Procedure

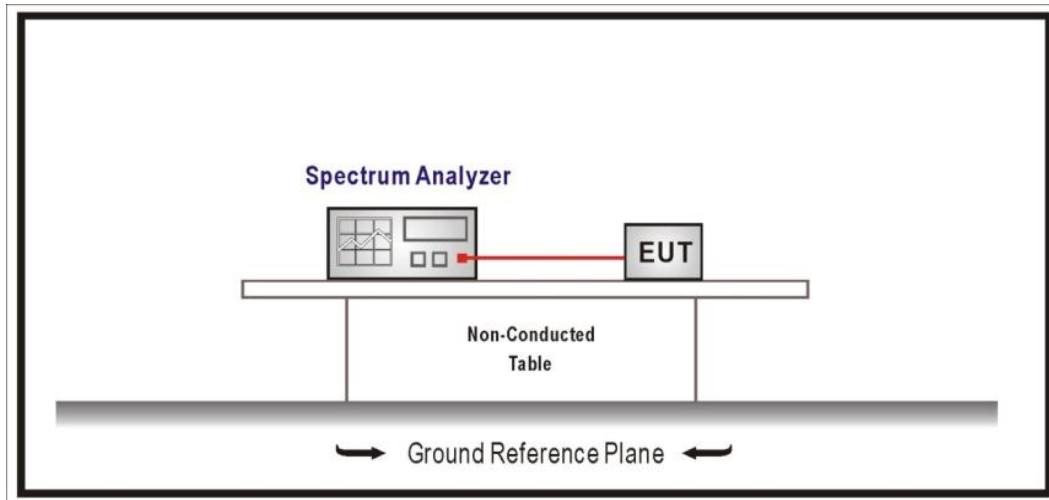
The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

8.4. Test Result of Dwell Time

Refer as Appendix F

9. Antenna Port Conducted Emission

9.1. Test Setup



9.2. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.

9.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

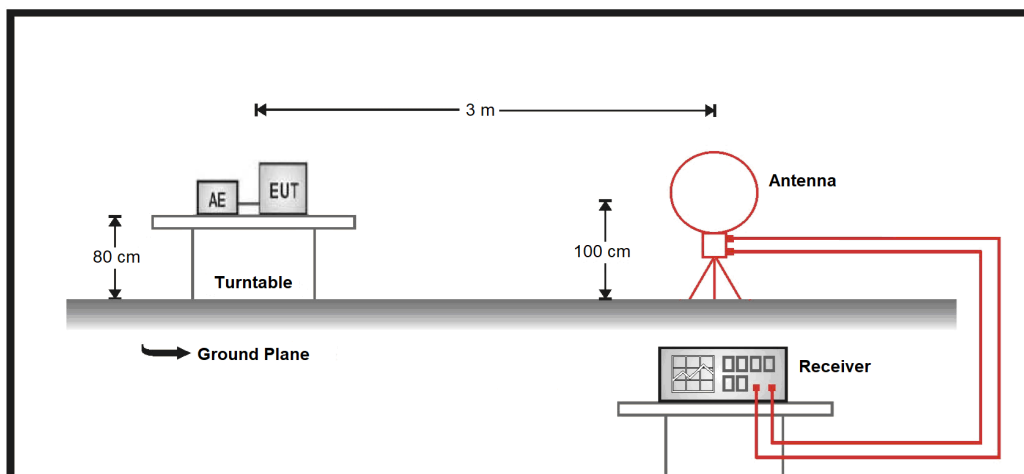
9.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix G

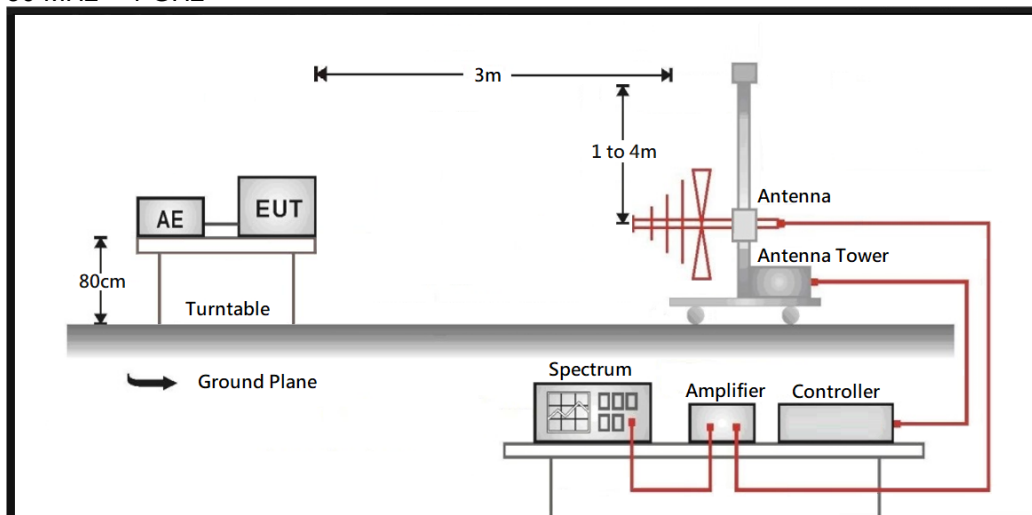
10. Radiated Emission

10.1. Test Setup

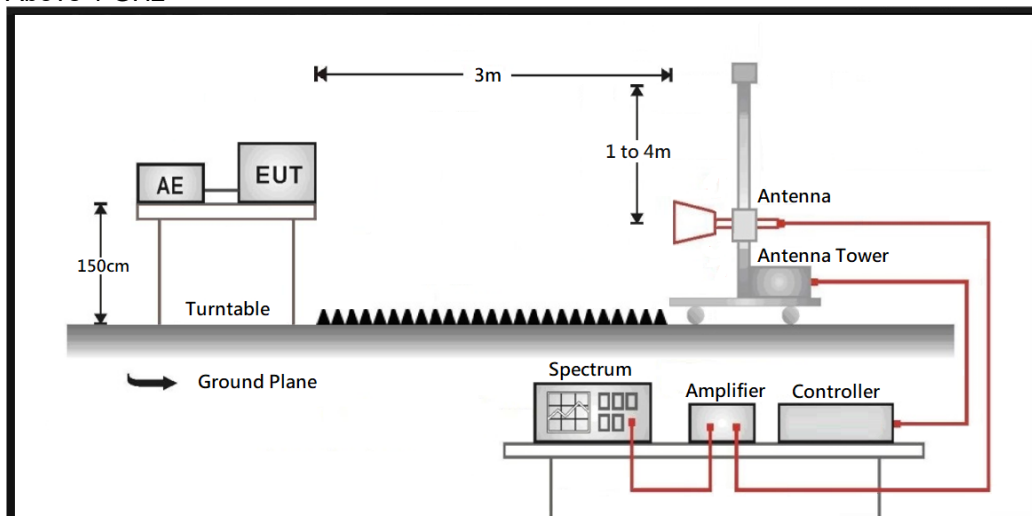
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



10.2. Test Limit

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 – 0.490	$2400/F(\text{kHz})$	$20 \log (2400/F(\text{kHz}))$	300
0.490 – 1.705	$24000/F(\text{kHz})$	$20 \log (24000/F(\text{kHz}))$	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength ($\text{dB}\mu\text{V/m}$) = $20 \log$ Field strength ($\mu\text{V/m}$)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

10.3. Test Procedure

The EUT was setup according to ANSI C63.10-2020 and tested according to FHSS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10-2020 on radiated measurement.

On any frequency or frequencies from 9 kHz (include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

10.4. Test Result of Radiated Emission

Refer as Appendix H