



Test Report No.:
FCCSZ2024-0065-RF1

RF Test Report

FCC ID : 2AUA5-P2

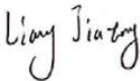
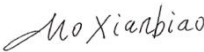
NAME OF SAMPLE : Smart Desktop Terminal

APPLICANT : IMachine(Xiamen)Intelligent Devices Co.,Ltd.

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant		Name:IMachine(Xiamen)Intelligent Devices Co.,Ltd. Address:7F-2,No.88-1,Tonghui South Road,Tongan,Xiamen,China.	
Manufacturer		Name:IMachine(Xiamen)Intelligent Devices Co.,Ltd. Address:7F-2,No.88-1,Tonghui South Road,Tongan,Xiamen,China.	
Equipment Under Test		Product Name:Smart Desktop Terminal Model/Type: P2 Additional Model/Type: See Chapter 2.1 Brand Name: N/A Serial NO.: N/A Sample NO.:2-1	
Date of Receipt.	2024.08.27	Date of Testing	2024.08.27~2024.10.22
Test Specification		Test Result	
FCC Part 15, Subpart C (15.247)		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: 2024.11.06		
Compiled by:  <u>Liang Jiatong</u> Name Signature	Reviewed by:  <u>Mo Xianbiao</u> Name Signature	Approved by:  <u>Dong Sanbi</u> Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0065-RF1	Original release	2024.11.06



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
FCC 15.207	AC Power Conducted Emission	PASS	See section 3.1
FCC 15.247(d) FCC 15.209	Radiated Emissions	PASS	See section 3.2
FCC 15.247(d) RSS-247 5.5	Out of band Emission Measurement	PASS	Appendix E&F of FCCSZ2024-0065-RF1-A1&A2
FCC 15.247(a)(2) RSS-247 5.2(a)	6dB bandwidth	PASS	Appendix A of FCCSZ2024-0065-RF1-A1&A2
---	Occupied Bandwidth Measurement	PASS	Appendix B of FCCSZ2024-0065-RF1-A1&A2
FCC 15.247(b)	Conducted Output power	PASS	Appendix C of FCCSZ2024-0065-RF1-A1&A2
FCC 15.247(e)	Power Spectral Density	PASS	Appendix D of FCCSZ2024-0065-RF1-A1&A2
FCC 15.203 FCC 15.247(b)	Antenna Requirement	PASS	See section 3.8



1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2025.5.22
#4Shielding room	MORI	443	N/A	3 year	2026.5.16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168588	1 year	2025.5.24
Analog signal Generator(100kHz~12.75GHz)	Rohde&Schwarz	SMB 100A	181882	1 year	2025.4.27
Vector signal Generator(8kHz~6GHz)	Rohde&Schwarz	SMBV 100B	101846	1 year	2025.4.28
DC power supply	Rohde&Schwarz	HMC8041-G	101203	1 year	2025.4.29
RF control unit(2/3/4/5G)	Tonscend	JS0806-1	CS0300027	1 year	2025.4.28
Automatic filter bank(2/3/4G)	Tonscend	JS0806-F	CS0300028	1 year	2025.4.28
Automatic filter bank(5G)	Tonscend	JS0806-F-5G NR	N/A	1 year	2025.4.28
Temperature and humidity meter	UNI-T	A10T	C193561464	1 year	2025.4.27
Radio Communication Analyzer	Anritsu	MT8821C	6272374548	1 year	2025.1.09
Constant temperature humidity chamber	TEELONG	TL-HW-225B	20220518-01	1 year	2025.5.24
Radio Communication Test Station	Anritsu	MT8000A	6272354169	1 year	2025.1.09
Radiation Spurious					/
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2025.4.28
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025.5.24
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2025.2.21
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2025.3.24
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2025.3.24
3m anechoic chamber	MORI	966	CS0300011	3 year	2026.5.18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2025.4.28
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025.4.28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2025.4.28
Preamplifier(18Gz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2025.4.28
#2 control room	MORI	433	CS0200059	3 year	2026.5.16
Temperature and humidity meter	/	C193561517	C193561517	1 year	2025.4.27



RE Test - 3M Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2025.5.24
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	01132	1 year	2025.4.25
Horn antenna(1GHz-18GHz)	ETS	3117	227634	1 year	2025.3.24
Horn antenna(18GHz-40GHz)	SCHWARZBECK	BBHA 9170	01003	1 year	2025.3.25
3m anechoic chamber	MORI	966	CS0200019	3 year	2026.5.18
Preamplifier(1GHz-18GHz)	Tonscend	TAP-051845	AP22G806257	1 year	2025.4.28
Attenuator	/	SJ-5dB	607684	1 year	2025.2.21
#1 control room	MORI	433	CS0300028	3 year	2026.5.16
Temperature and humidity meter	UNI-T	A10T	C193561473	1 year	2025.4.27
Conducted emission					
Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2025.5.24
Voltage probe	Rohde&Schwarz	CVP9222C	28	1 year	2025.4.27
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2025.4.28
ISN network	Rohde&Schwarz	ENV 81	100401	1 year	2025.4.28
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2025.4.28
ISN network	Rohde&Schwarz	NNLK&8129RC	05021	1 year	2025.4.27
#1Shielding room	MORI	854	N/A	3 year	2026.5.16



1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

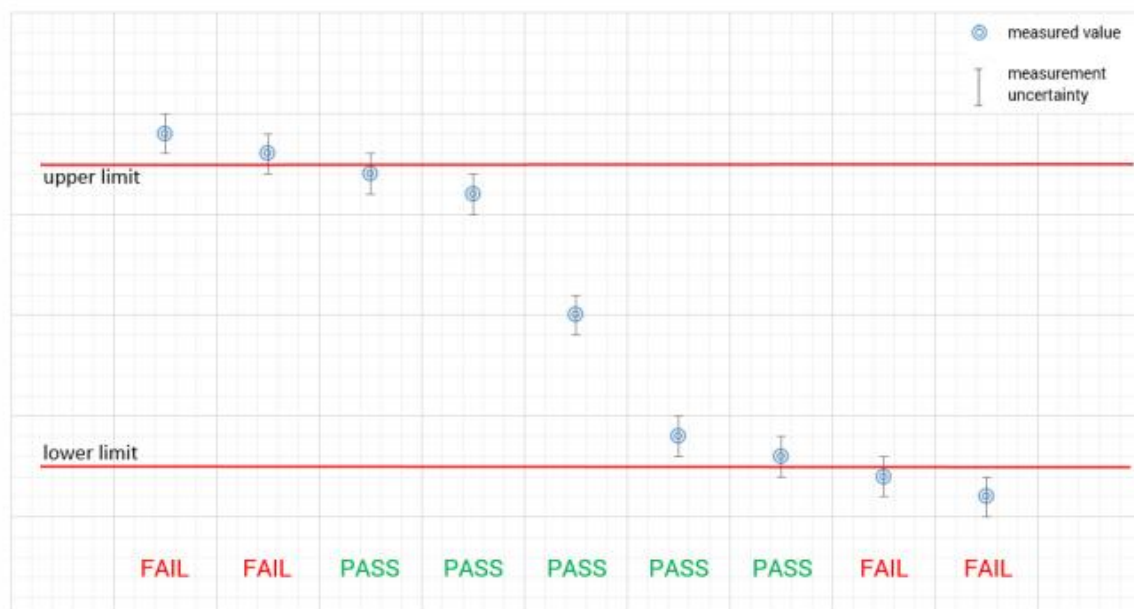
No.	Item	Measurement Uncertainty
1	Occupied Channel Bandwidth	± 1.86 %
2	RF output power, conducted	± 0.9 dB
3	Power Spectral Density, conducted	± 0.8 dB
4	Conducted emission test	± 2.7 dB
5	Radiated emission 9kHz-30MHz	± 5.6 dB
	Radiated emission 30MHz-1GHz	± 4.6 dB
	Radiated emission 1GHz-18GHz	± 4.4 dB
	Radiated emission 18GHz-40GHz	± 5.1 dB
6	Temperature	± 0.73 °C
7	Humidity	± 3.90 %
8	Supply voltages	± 0.37 %
9	Time	± 0.27 %

Remark: 95% Confidence Levels, k=2.

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.

measured value, measurement uncertainty, verdict





1.3 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn

FCC(Test firm designation number: CN1363)

IC(Test firm CAB identifier number: CN0137)

CNAS(Test firm designation number: L16091)



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	Smart Desktop Terminal
BRAND	N/A
TEST MODEL	P2
ADDITIONAL MODEL	P1、P2、P3、P5、P6、P7、P8、P9、P1S、P2S、P3S、P5S、P6S、P7S、P8S、P9S、P1 MINI、P2 MINI、P3 MINI、P5 MINI、P6 MINI、P7 MINI、P8 MINI、P9 MINI、P1 PLUS、P2 PLUS、P3 PLUS、P5 PLUS、P1Pro、P2Pro、P3Pro、P5Pro; A1、A2、A3、A5、A6、A7、A8、A9、A1S、A2S、A3S、A5S、A6S、A7S、A8S、A9S、A1 MINI、A2 MINI、A3 MINI、A5 MINI、A6 MINI、A7 MINI、A8 MINI、A9 MINI、A1 Plus、A2 PLUS、A3 PLUS、A5 PLUS、A1Pro、A2Pro、A3Pro、A5Pro、A1 PlusPro、A2PlusPro、A3 PlusPro、 K1、K2、K3、K5、K6、K7、K8、K9、K1S、K2S、K3S、K5S、K6S、K7S、K8S、K9S、K1 PLUS、K1Pro、L1、L1 PLUS、L1Pro、L1S、M1、M1 PLUS、M1Pro、M1S、N1、N1 PLUS、N1Pro、N1S、Q1、Q1 PLUS、Q1Pro、Q1S、R1、R1 PLUS、R1Pro、R1S、S1、S1 PLUS、S1Pro、S1S、T1、T1 PLUS、T1Pro、T1S、U1、U1 PLUS、U1Pro、U1S P***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) A***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) L***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) N***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) Q***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) R***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) S***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) T***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) U***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank)
POWER SUPPLY	DC 12V From Adapter
MODULATIONTECHNOLOGY	DSSS, OFDM, DTS
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK for BT-LE
OPERATING FREQUENCY	2412MHz ~ 2462MHz for 11b/g/n(HT20) 2422MHz ~ 2452MHz for 11n(HT40) 2402MHz ~ 2480MHz for BT-LE 1M
NUMBER OF CHANNEL	802.11b/g/n(HT20): 11 802.11n(HT40): 7 BT-LE:40
PEAK OUTPUT POWER	15.33dBm for WiFi(Maximum)



	4.6dBm for BT-LE(Maximum)										
ANTENNA TYPE(Note 5)	WiFi Antenna(Aux):FPC Antenna with 1.41dBi gain for 2.4G WiFi BT Antenna(Main):FPC Antenna with 1.41dBi gain for BT										
FIX FREQUENCY SOFTWARE	adb										
I/O PORTS	Refer to user's manual										
Note: - For more detailed features description, please refer to the manufacturer's specifications or the User's Manual. - For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report. - EUT photo refer to report (Report NO.: FCCSZ2024-0065-EUT). - Test Model(P2) and other model the only difference is the model name - Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.											
<table><tr><th>MODULATION MODE</th><th>TX FUNCTION</th></tr><tr><td>802.11b</td><td>SISO</td></tr><tr><td>802.11g</td><td>SISO</td></tr><tr><td>802.11n</td><td>SISO</td></tr><tr><td>BT-LE 1M</td><td>SISO</td></tr></table>		MODULATION MODE	TX FUNCTION	802.11b	SISO	802.11g	SISO	802.11n	SISO	BT-LE 1M	SISO
MODULATION MODE	TX FUNCTION										
802.11b	SISO										
802.11g	SISO										
802.11n	SISO										
BT-LE 1M	SISO										

	Adapter1	Adapter2
Brand	MASS POWER	DA-JING
Model No.:	S050-1A120400B3	ADP60A-12500A1
Input:	100V-240V,50/60Hz, 1.5A	100V-240V,50/60Hz, 1.5A
Output:	12V/4A	12V/5A



2.2 OTHER INFORMATION

Operating frequency of each channel

2.4G WIFI							
802.11b/g/n(HT20)							
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)		
1	2412	5	2432	9	2452		
2	2417	6	2437	10	2457		
3	2422	7	2442	11	2462		
4	2427	8	2447				
802.11n(HT40)							
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)		
3	2422	6	2437	9	2452		
4	2427	7	2442				
5	2432	8	2447				
BT-LE(1 Mbps)							
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. By means of test software which provided by manufacture, the power levels during the tests were set

2.4G									
802.11b		802.11g		802.11n(HT20)		802.11n(HT40)		BT-LE 1M	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
2412	40	2412	50	2412	47	2422	47	2402	default
2437	40	2437	50	2437	47	2437	47	2440	default
2462	40	2462	50	2462	47	2452	47	2480	default



2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, xyz axis and antenna ports

EUT CONFIGURE MODE	APPLICABLE TEST ITEMS				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	√	√	2.4G WIFI Function
B	√	√	√	√	BT Function

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

TEST CASES	ANTENNA 1-WIFI	ANTENNA 2-BT	MIMO/CDD	PARTIAL RU
AC Power Conducted Emission	O	O	N/A	N/A
Radiated Emissions	O	O	N/A	N/A
Out of band Emission Measurement	O	O	N/A	N/A
6dB bandwidth	O	O	N/A	N/A
Occupied Bandwidth Measurement	O	O	N/A	N/A
Conducted Output power	O	O	N/A	N/A
Power Spectral Density	O	O	N/A	N/A

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	24deg. C, 55%RH	DC 12V from Adapter	Liu Yuan
RE≥1G	24deg. C, 55%RH	DC 12V from Adapter	Liu Yuan
PLC	24deg. C, 55%RH	DC 12V from Adapter	Wang Zhiming
APCM	25deg. C, 58%RH	DC 12V from Adapter	Cai Jianyu

RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1	DSSS	DBPSK	1.0

For the test results, only the worst case was shown in test report.



RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11n(HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n(HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
B	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps

POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
A	WIFI (2.4G) Link
B	BT-LE Link

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11n(HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n(HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
B	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 Limit

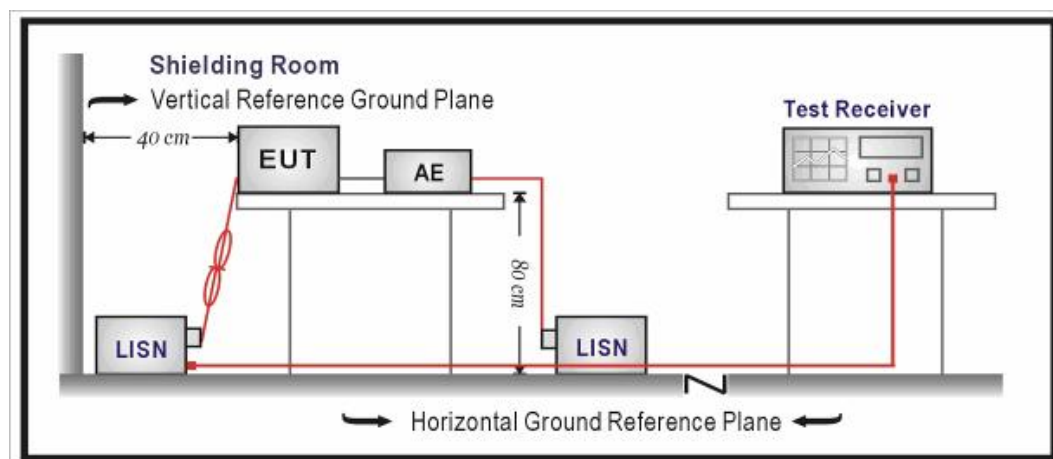
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.
NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.2 Measurement procedure

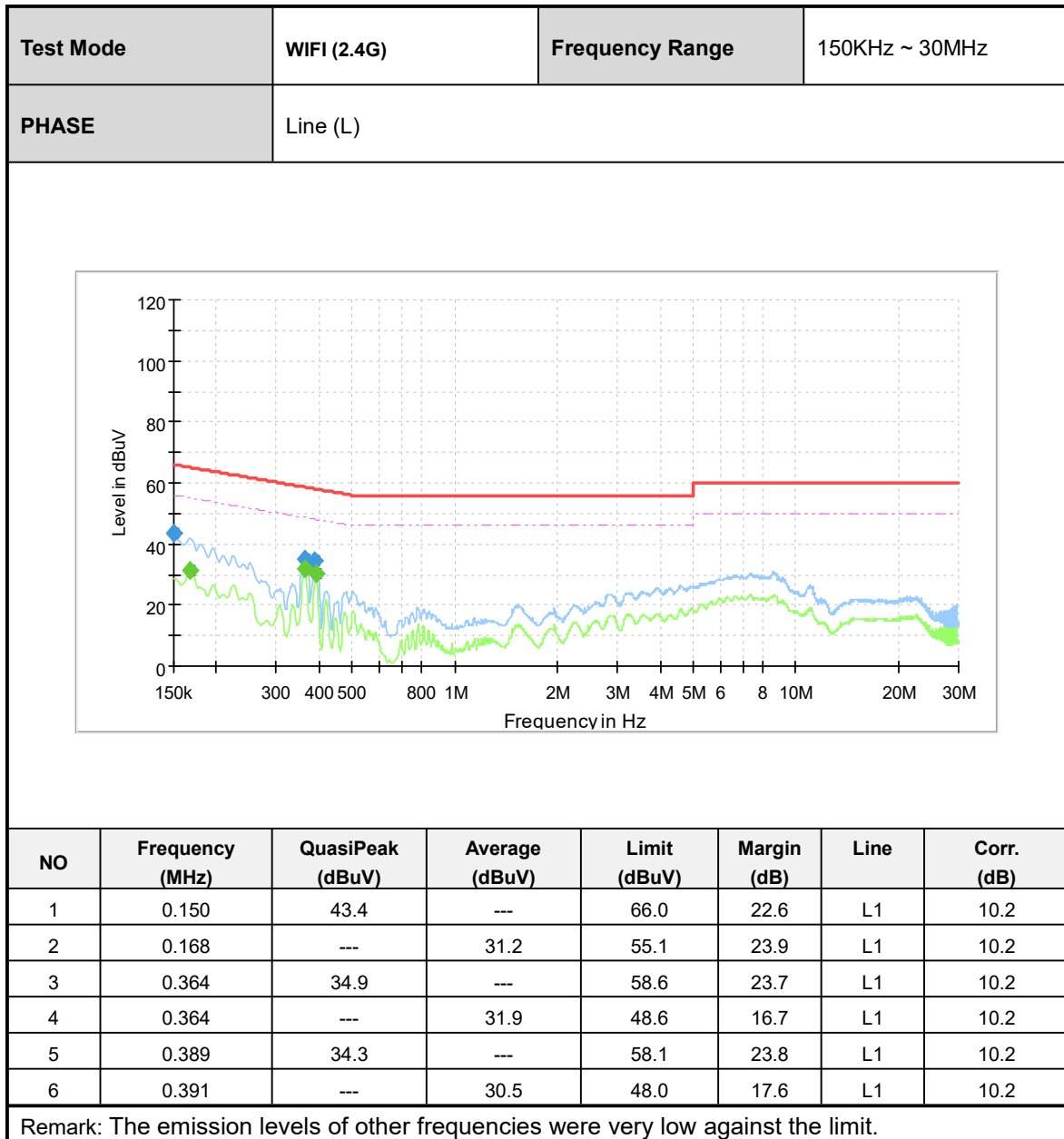
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be 1.5m above the ground,
- The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

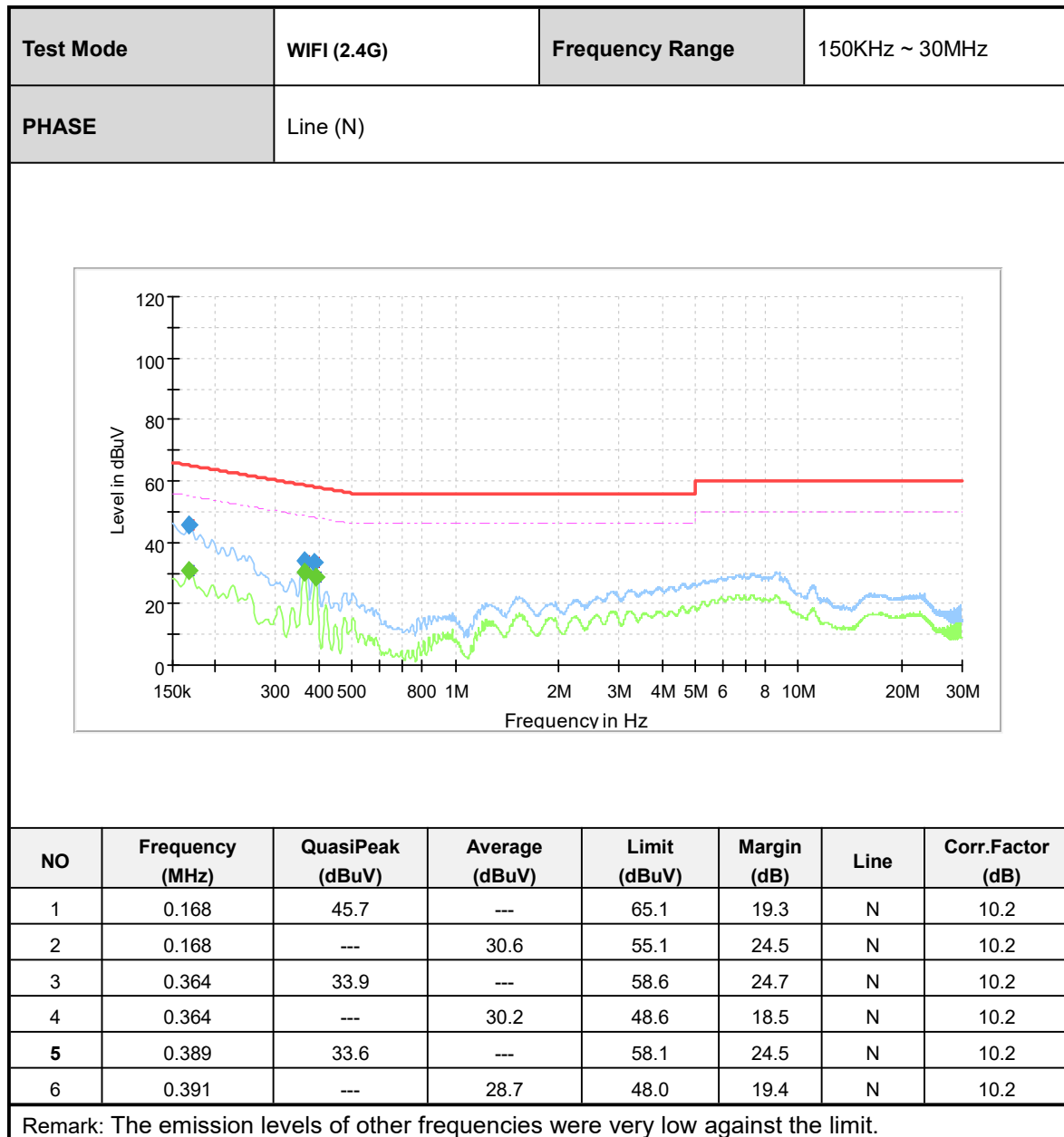
3.1.3 Test setup

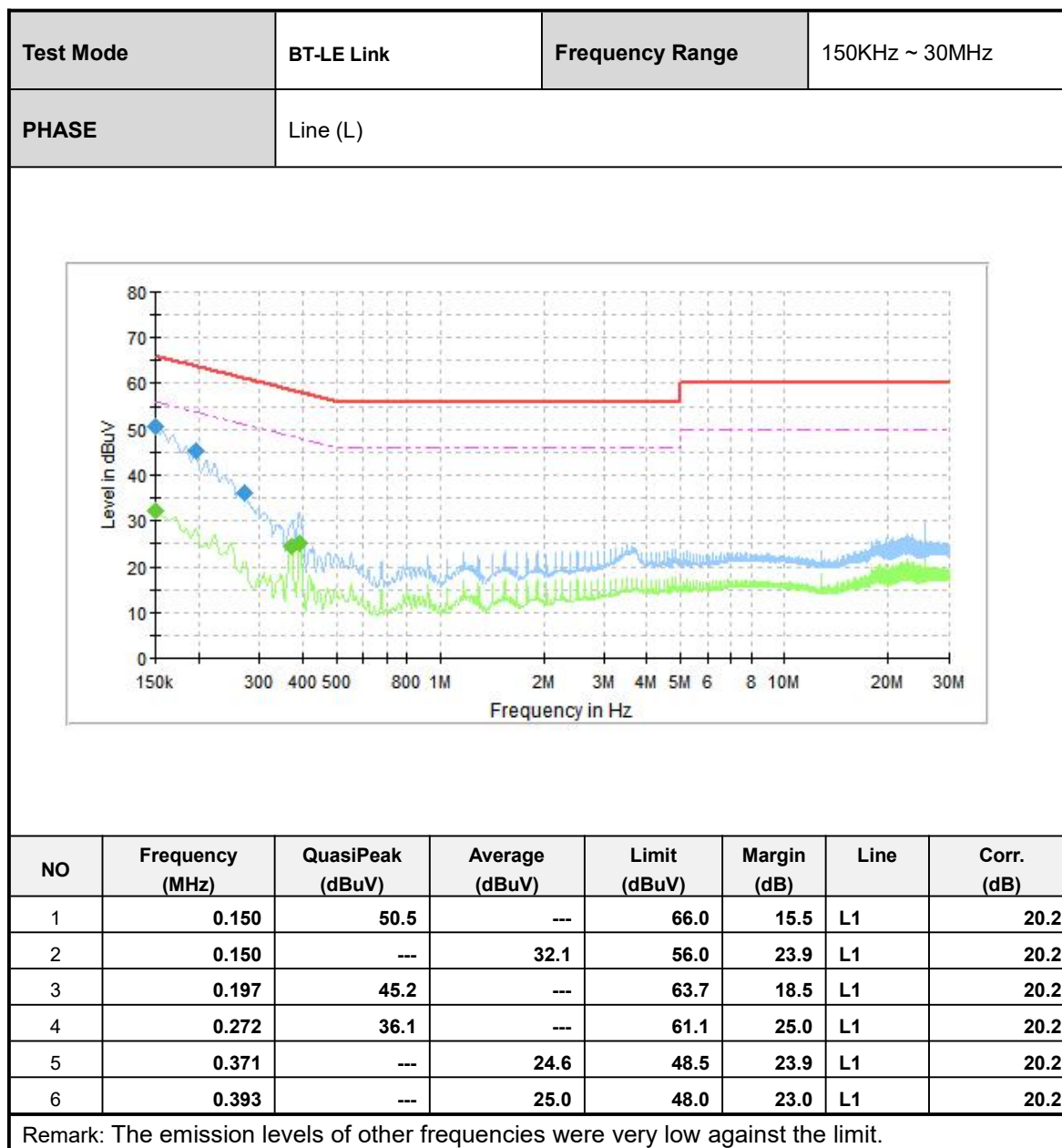


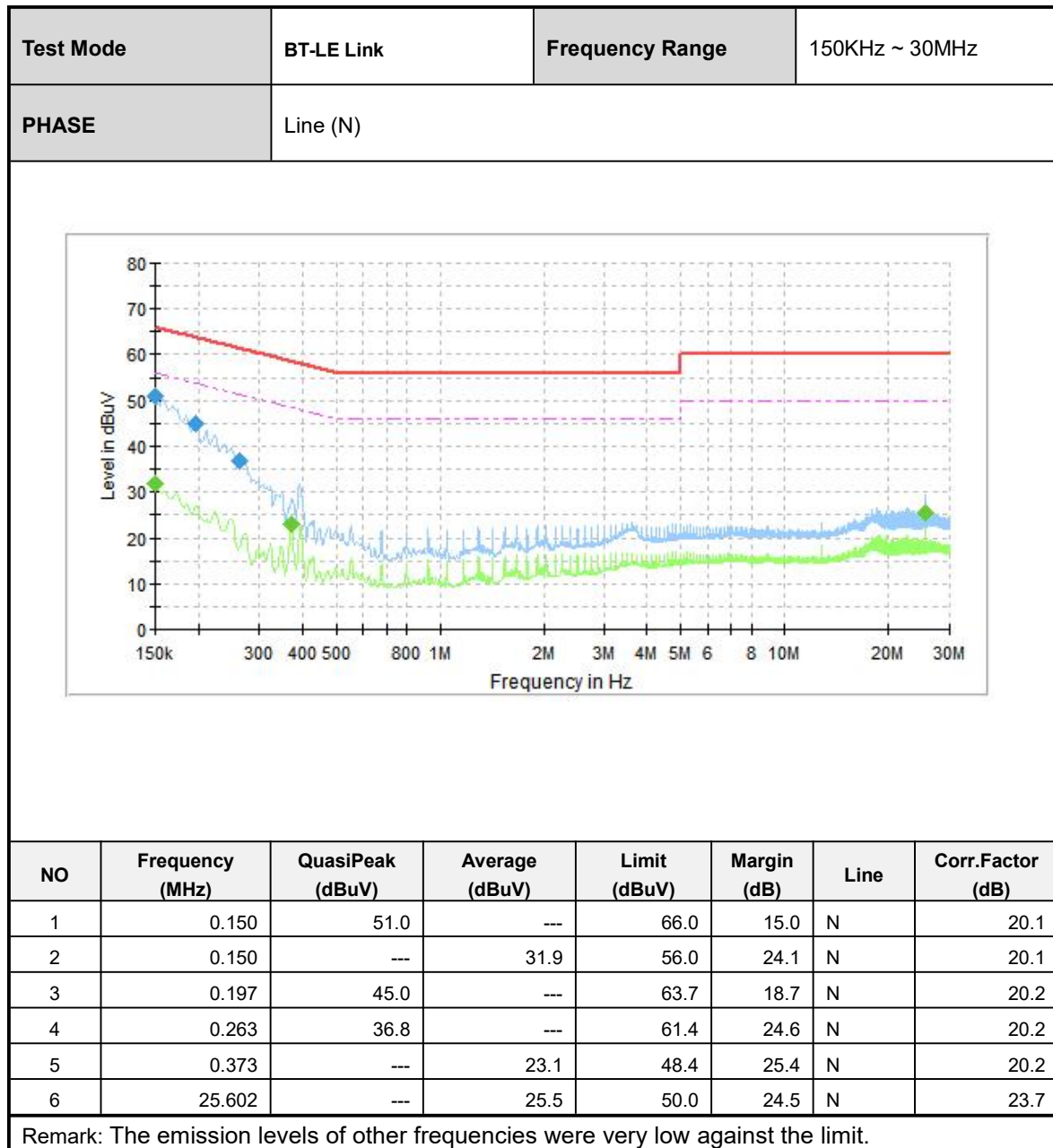


3.1.4 Adapter-1 Test results



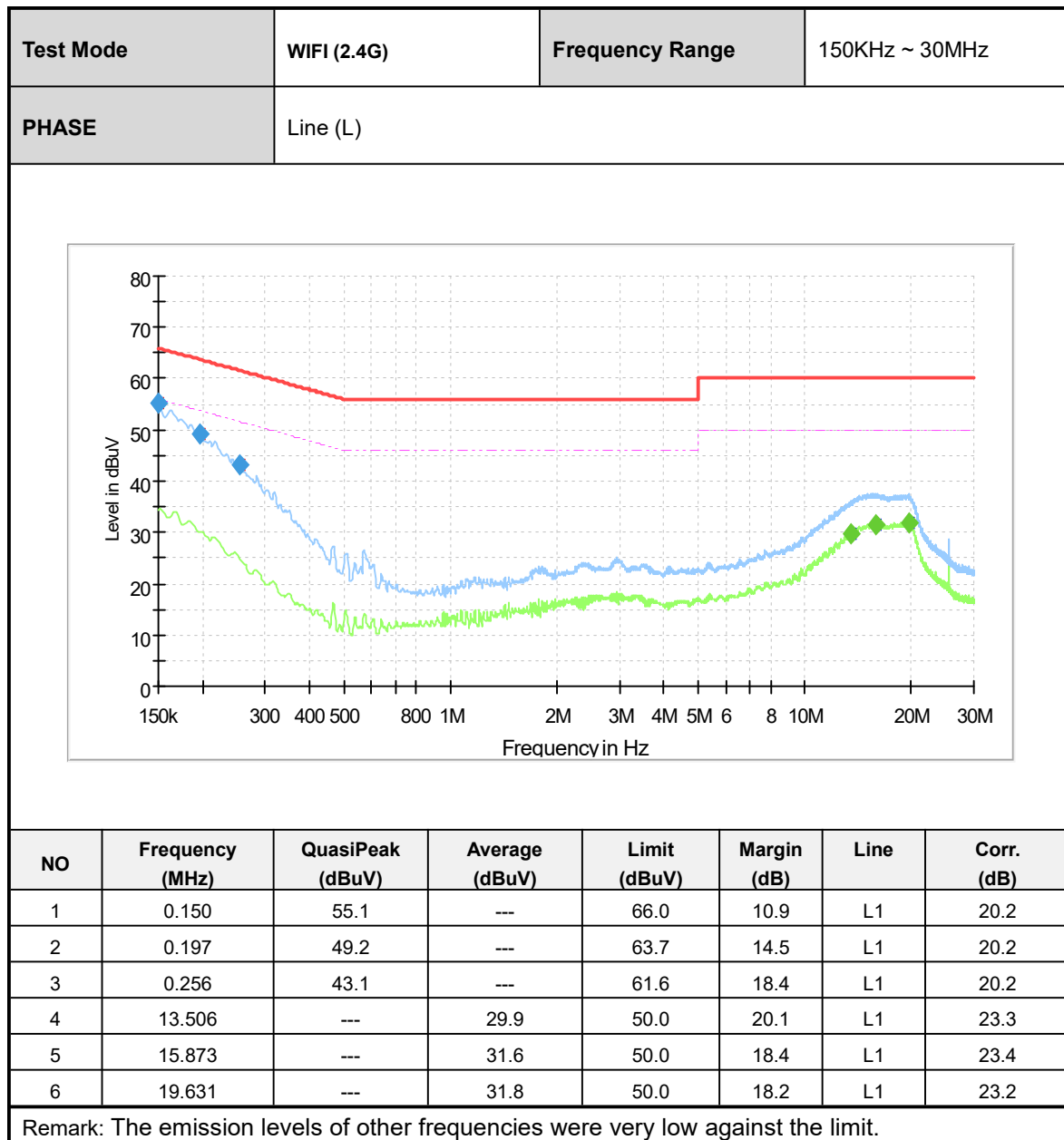


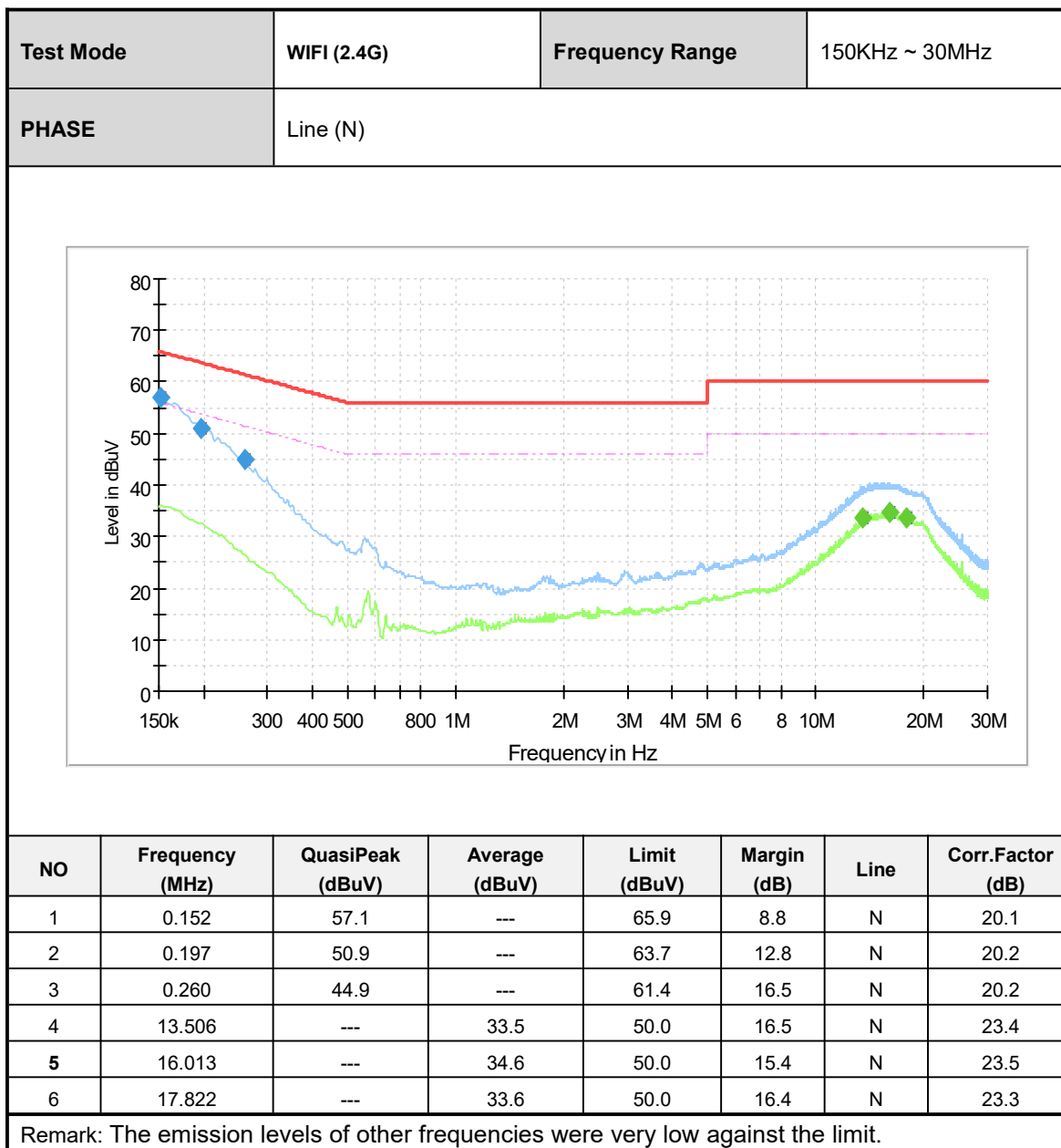


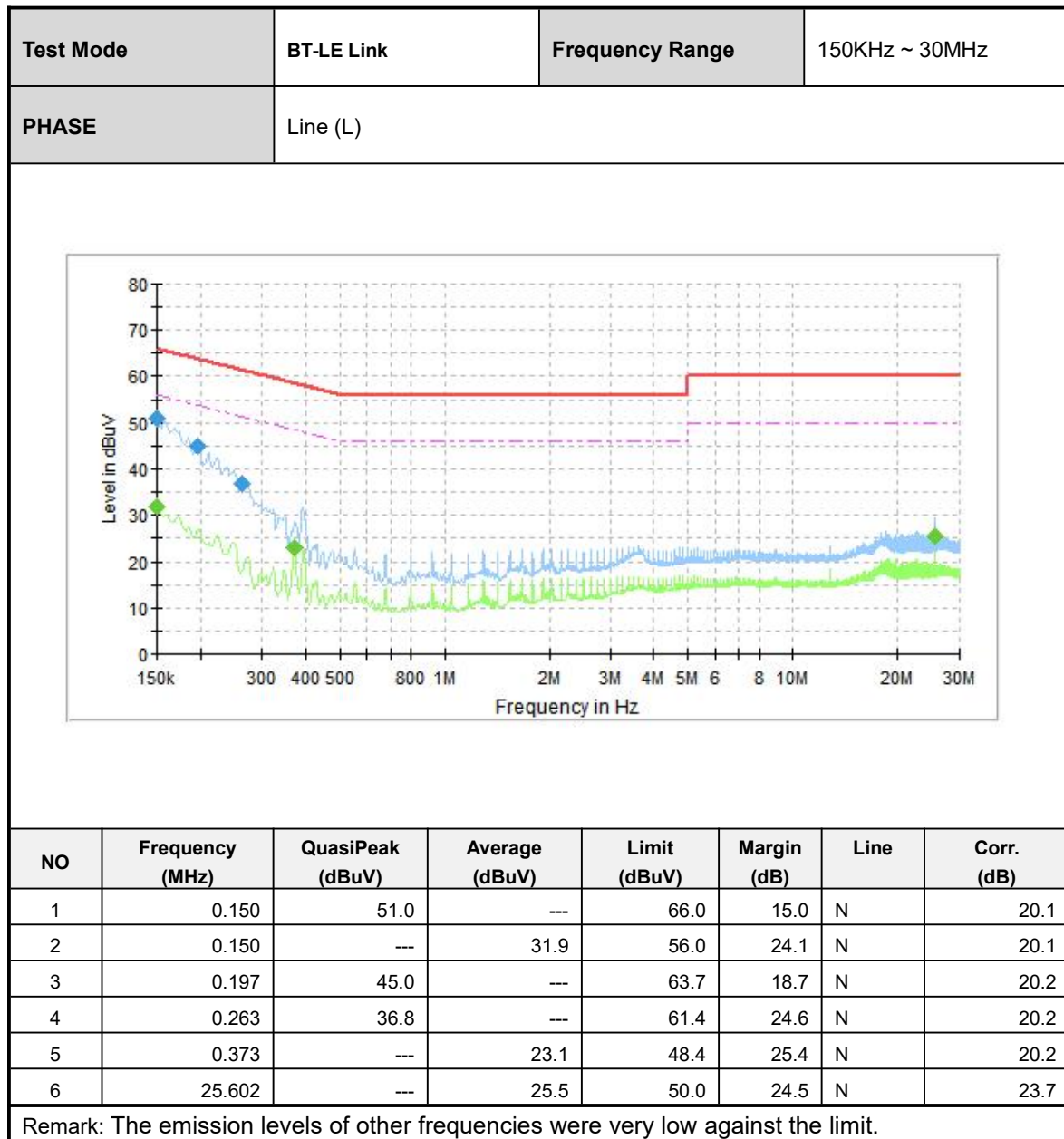


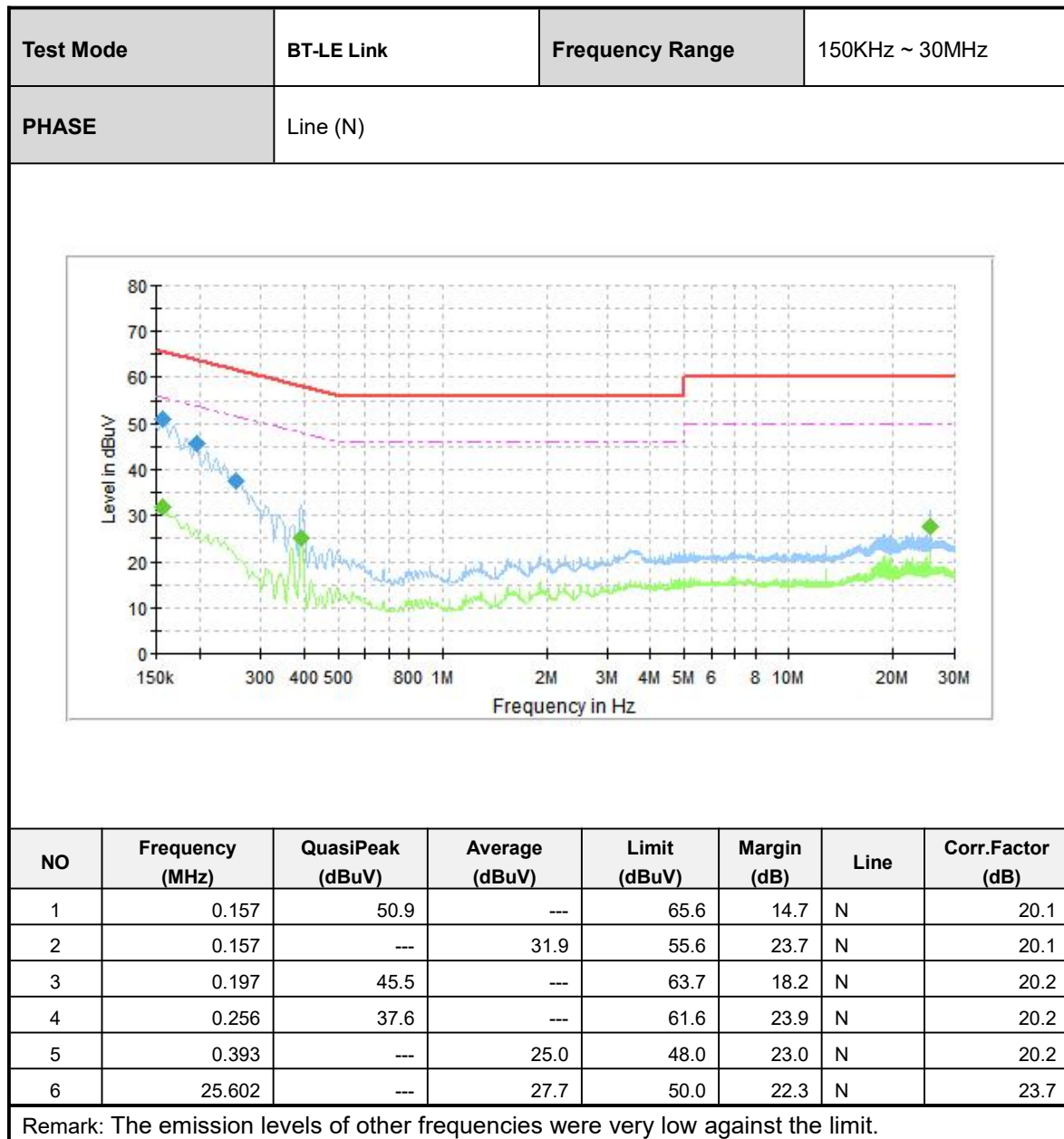


3.1.5 Adapter-2 Test results











3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (Microvolts/Meter)	MEASUREMENT DISTANCE (Meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE: 1. The lower limit shall apply at the transition frequencies.
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

3.2.2 Measurement procedure

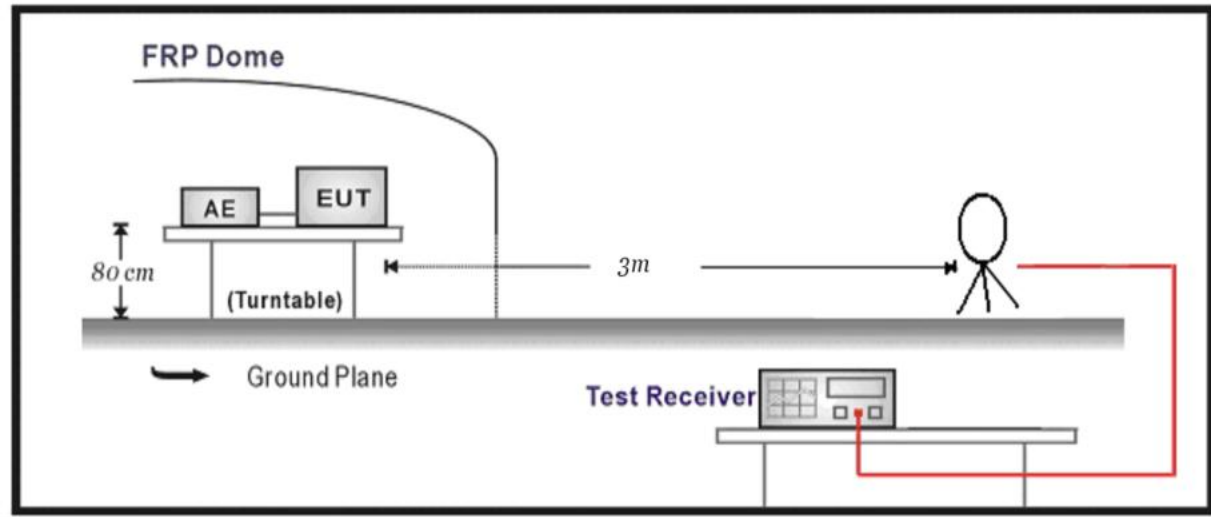
- The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

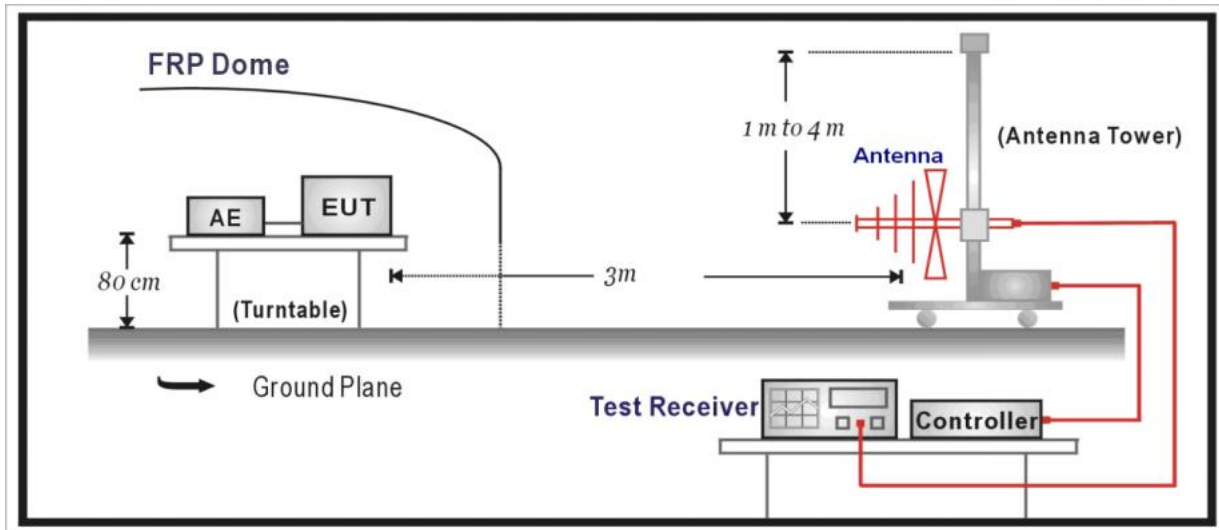
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

3.2.3 Test setup

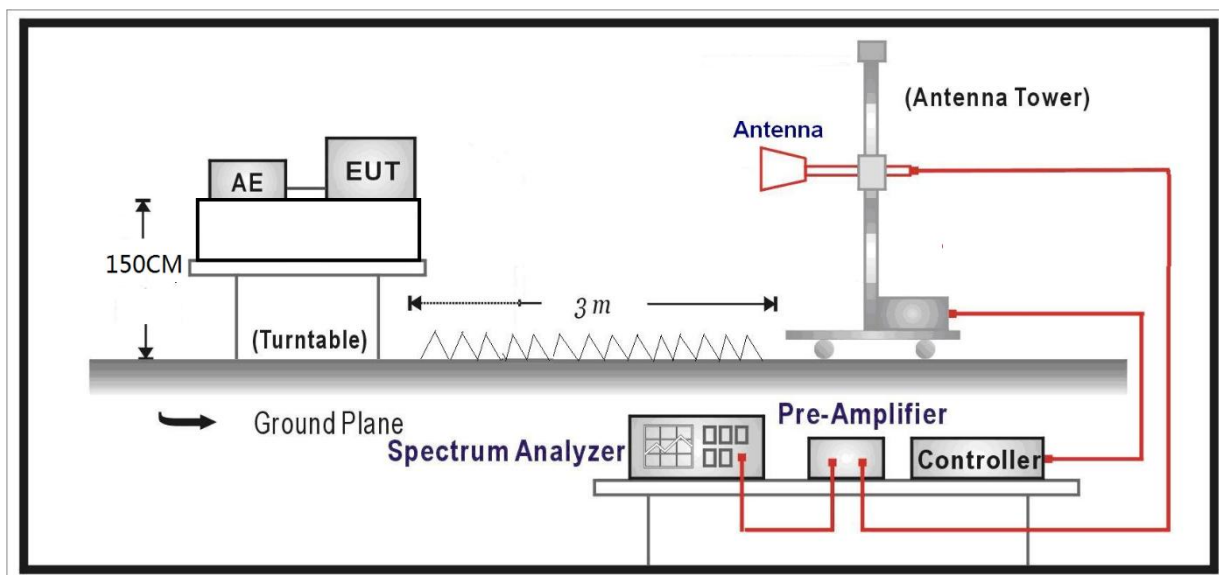
Below 30MHz Test Setup:



Below 1GHz Test Setup:



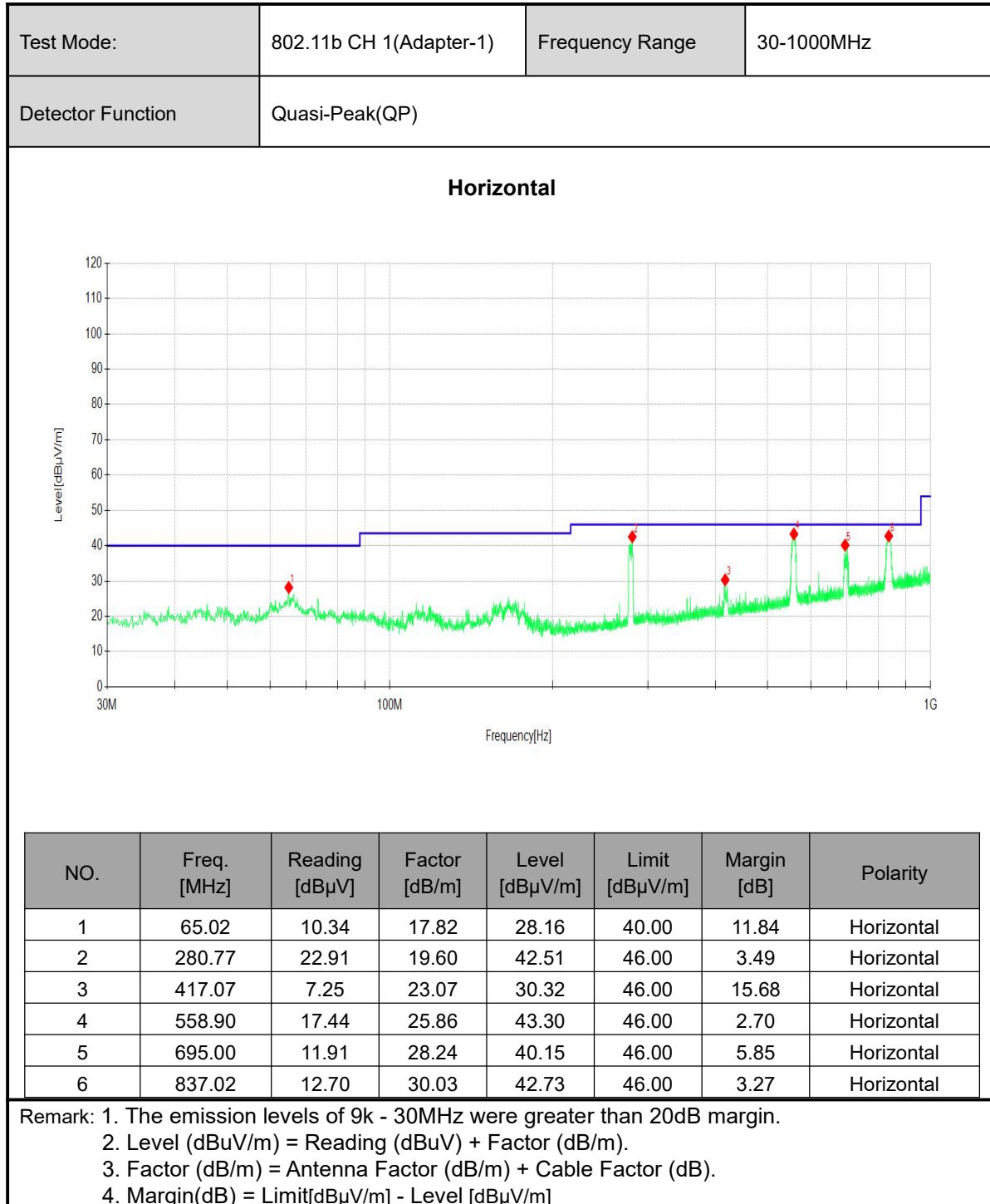
Above 1GHz Test Setup:





3.2.4 Test results

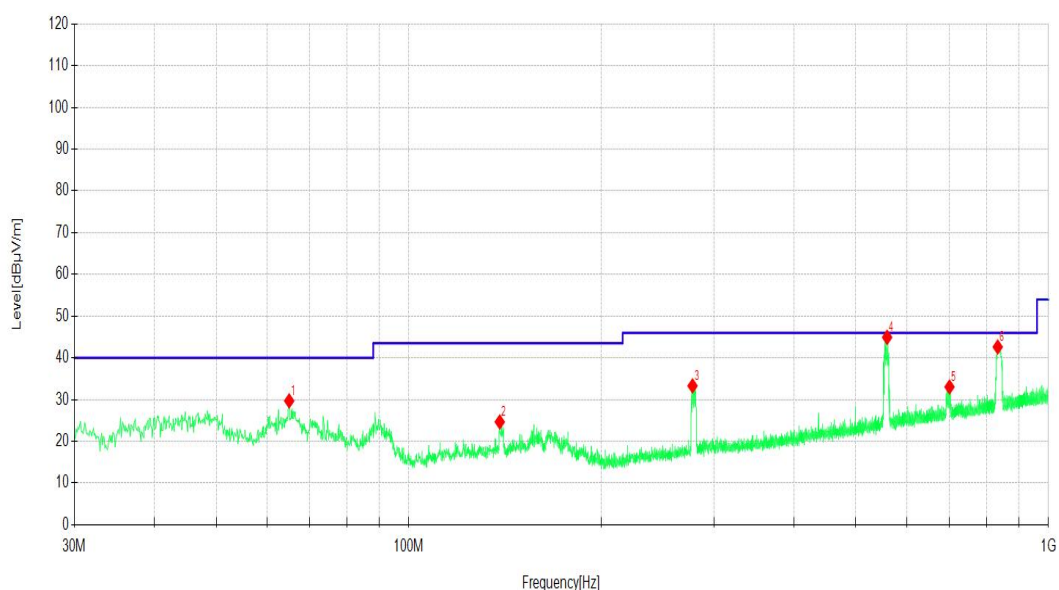
BELOW 1GHz WORST-CASE DATA:





Test Mode:	802.11b CH 1(Adapter-1)	Frequency Range	30-1000MHz
Detector Function	Quasi-Peak(QP)		

Vertical



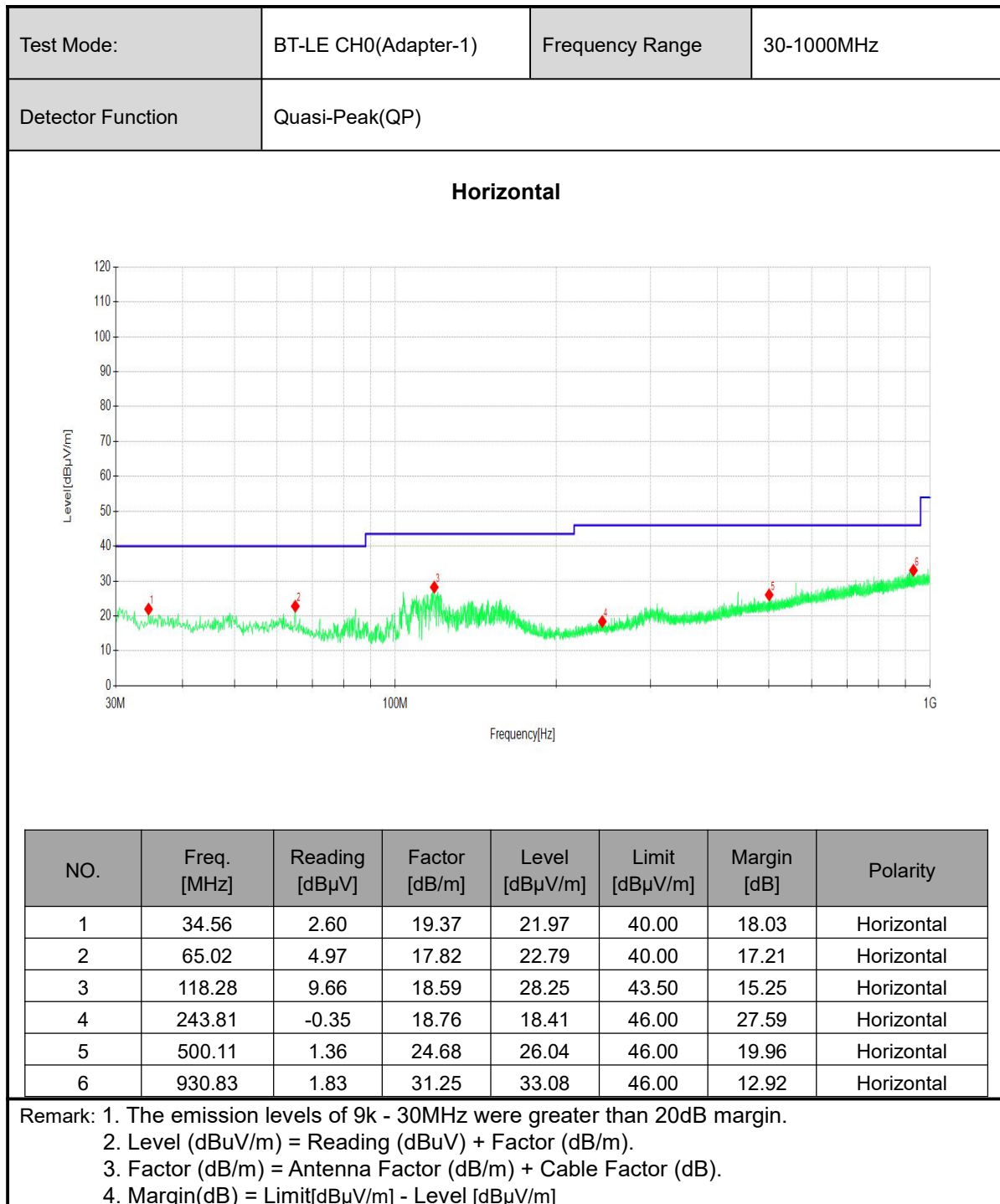
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	65.02	11.87	17.82	29.69	40.00	10.31	Vertical
2	138.75	4.59	20.06	24.65	43.50	18.85	Vertical
3	277.76	13.79	19.49	33.28	46.00	12.72	Vertical
4	559.58	19.05	25.87	44.92	46.00	1.08	Vertical
5	700.43	4.67	28.36	33.03	46.00	12.97	Vertical
6	833.24	12.61	30.00	42.61	46.00	1.89	Vertical

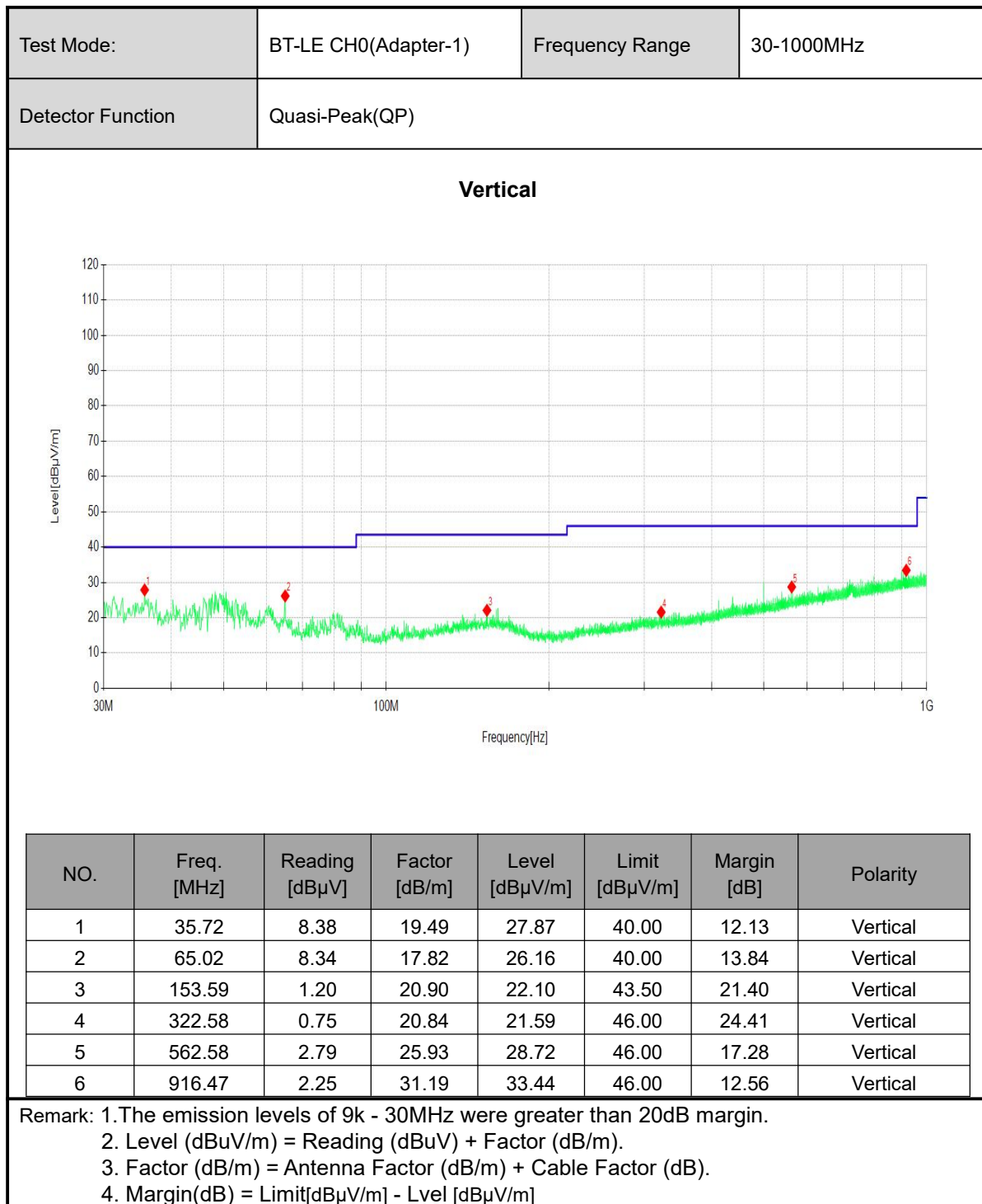
Remark: 1.The emission levels of 9k - 30MHz were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

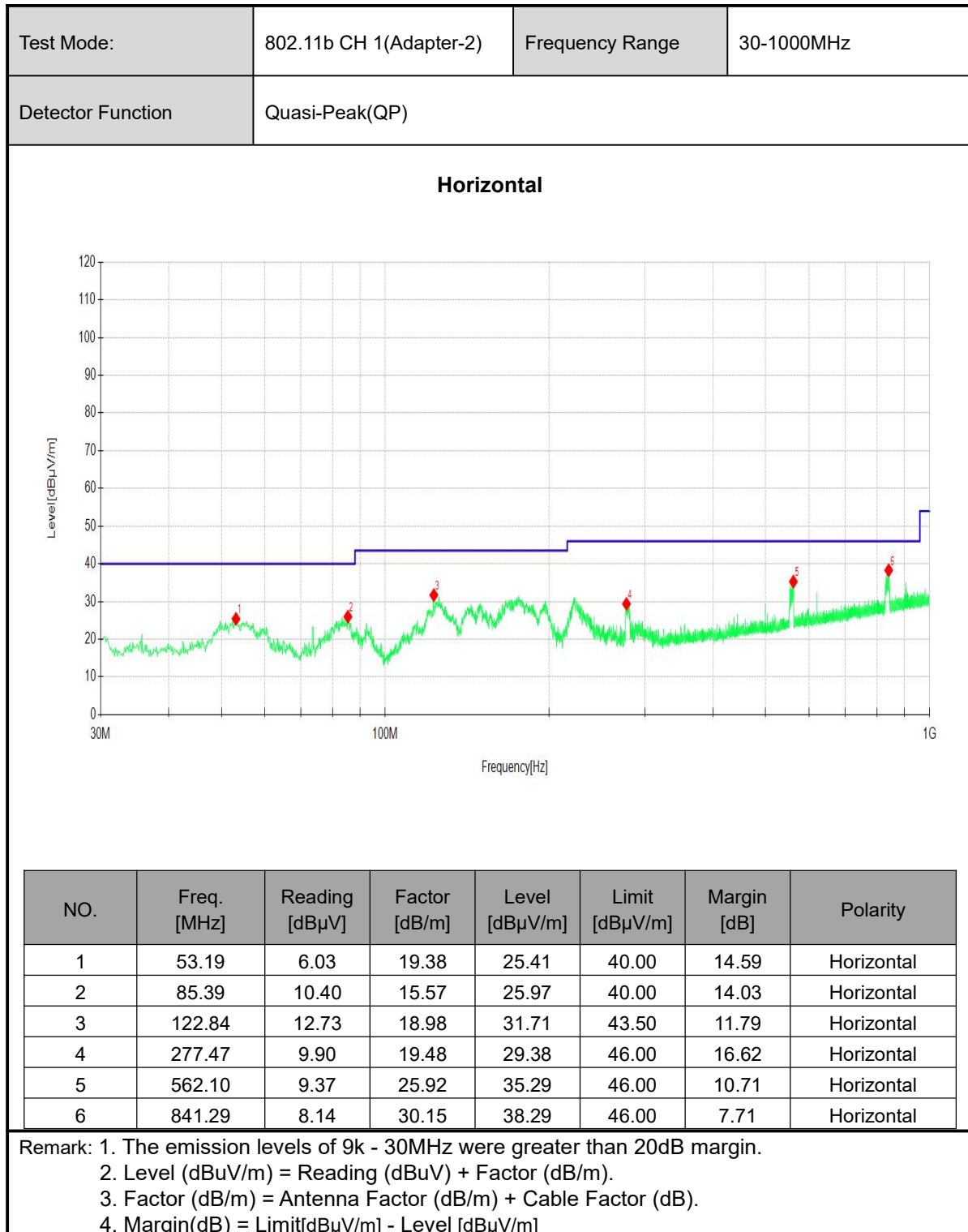
4. Margin(dB) = Limit[dBμV/m] - Lvel [dBμV/m]

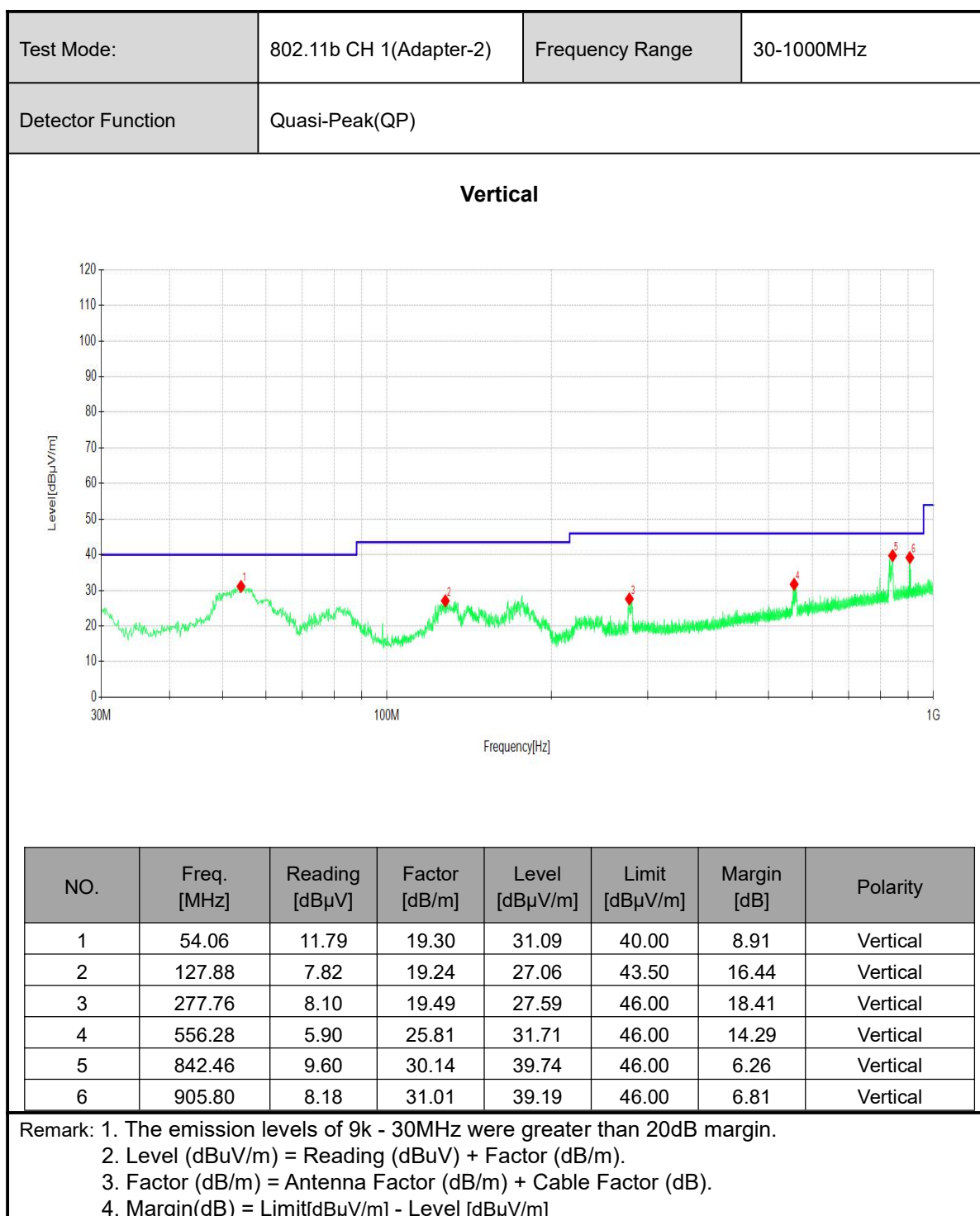


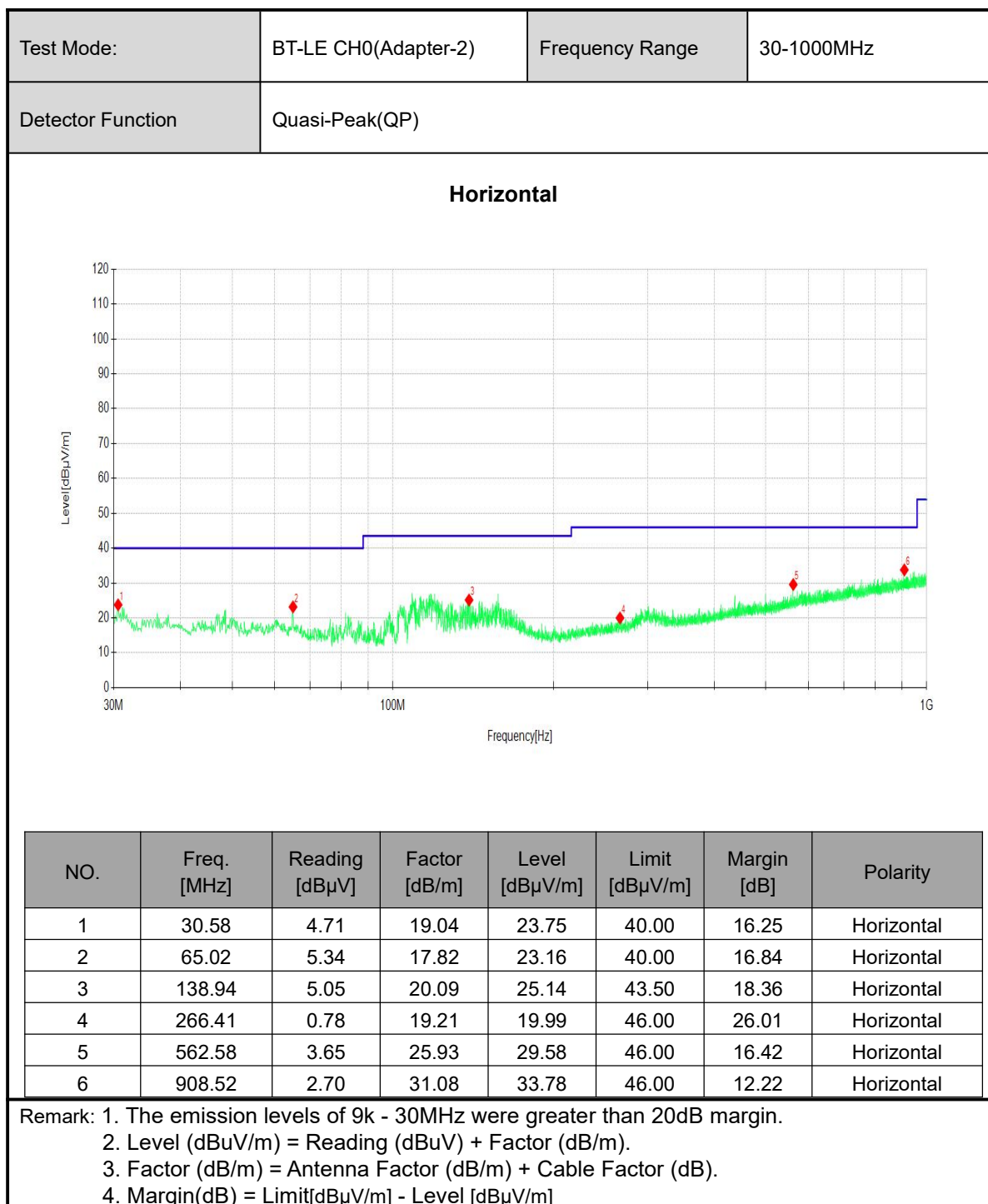




BELOW 1GHz WORST-CASE DATA:



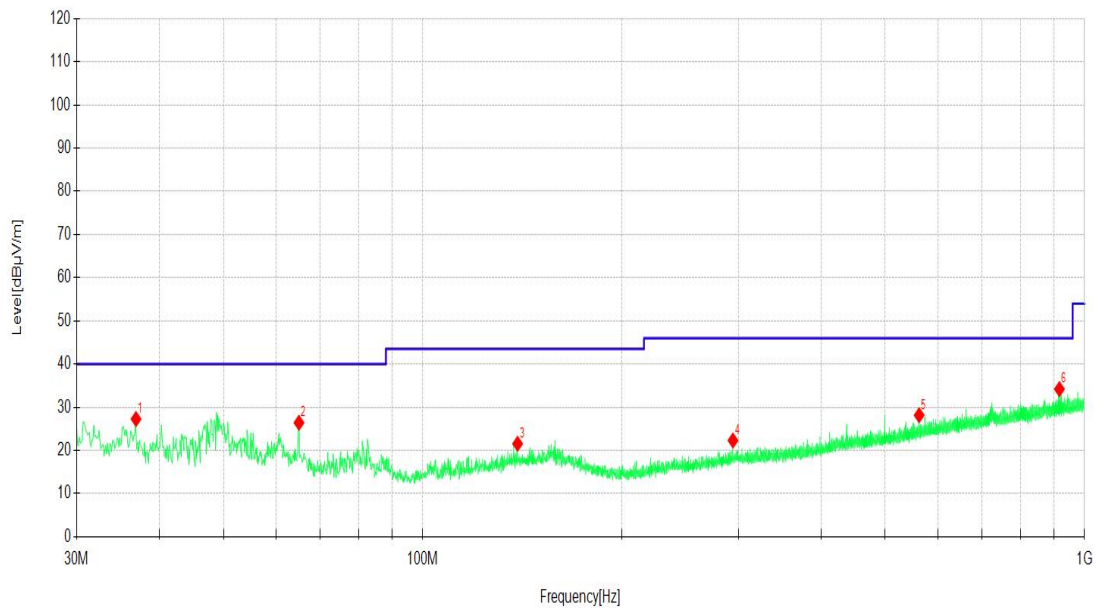






Test Mode:	BT-LE CH0(Adapter-2)	Frequency Range	30-1000MHz
Detector Function	Quasi-Peak(QP)		

Vertical



NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	36.89	7.67	19.62	27.29	40.00	12.71	Vertical
2	65.02	8.59	17.82	26.41	40.00	13.59	Vertical
3	139.14	1.45	20.11	21.56	43.50	21.94	Vertical
4	294.35	2.24	20.07	22.31	46.00	23.69	Vertical
5	562.58	2.23	25.93	28.16	46.00	17.84	Vertical
6	916.57	3.01	31.19	34.20	46.00	11.80	Vertical

Remark: 1.The emission levels of 9k - 30MHz were greater than 20dB margin.

2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Lvel [dBμV/m]



ABOVE 1GHz DATA

All test modes have been conducted, and the report only presents the worst case (802.11b).

Channel	802.11b CH 1	Frequency	2412MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2385.14	51.37	-1.44	49.93	74.00	24.07	PK	Horizontal
2	2385.16	43.07	-1.44	41.63	54.00	12.37	AV	Horizontal
3	2390.00	48.46	-1.37	47.09	74.00	26.91	PK	Horizontal
4	2390.00	39.89	-1.37	38.52	54.00	15.48	AV	Horizontal
5	2412.05	98.20	-1.19	97.01			PK	Horizontal
6	2413.08	95.64	-1.19	94.45			AV	Horizontal
7	4824.00	42.11	9.58	51.69	74.00	22.31	PK	Horizontal
8	4824.00	35.73	9.58	45.31	54.00	8.69	AV	Horizontal
9	6290.10	33.56	15.55	49.11	54.00	4.89	AV	Horizontal
10	7236.00	19.37	13.96	33.33	54.00	20.67	AV	Horizontal
11	7236.00	26.88	13.96	40.84	74.00	33.16	PK	Horizontal
12	9648.00	20.75	14.33	35.08	54.00	18.92	AV	Horizontal
13	2383.37	50.47	-1.48	48.99	74.00	25.01	PK	Vertical
14	2385.93	40.78	-1.43	39.35	54.00	14.65	AV	Vertical
15	2390.00	48.26	-1.37	46.89	74.00	27.11	PK	Vertical
16	2390.00	39.34	-1.37	37.97	54.00	16.03	AV	Vertical
17	2411.93	91.19	-1.19	90.00			PK	Vertical
18	2413.12	88.69	-1.19	87.50			AV	Vertical
19	4824.00	42.31	9.58	51.89	74.00	22.11	PK	Vertical
20	4824.00	34.79	9.58	44.37	54.00	9.63	AV	Vertical
21	7236.00	19.67	13.96	33.63	54.00	20.37	AV	Vertical
22	7236.00	27.43	13.96	41.39	74.00	32.61	PK	Vertical
23	9648.00	28.59	14.33	42.92	74.00	31.08	PK	Vertical
24	9648.00	20.07	14.33	34.40	54.00	19.60	AV	Vertical

- Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11b CH 6	Frequency	2437MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4874.00	42.49	9.66	52.15	74.00	21.85	PK	Horizontal
2	4874.00	34.46	9.66	44.12	54.00	9.88	AV	Horizontal
3	7311.00	20.22	12.65	32.87	54.00	21.13	AV	Horizontal
4	7311.00	28.26	12.65	40.91	74.00	33.09	PK	Horizontal
5	9748.00	27.05	14.73	41.78	74.00	32.22	PK	Horizontal
6	9748.00	18.81	14.73	33.54	54.00	20.46	AV	Horizontal
7	4874.00	42.36	9.66	52.02	74.00	21.98	PK	Vertical
8	4874.00	34.97	9.66	44.63	54.00	9.37	AV	Vertical
9	7311.00	27.99	12.65	40.64	74.00	33.36	PK	Vertical
10	7311.00	20.34	12.65	32.99	54.00	21.01	AV	Vertical
11	9748.00	28.00	14.73	42.73	74.00	31.27	PK	Vertical
12	9748.00	19.30	14.73	34.03	54.00	19.97	AV	Vertical

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	802.11b CH 11	Frequency	2462MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2462.22	100.68	-1.10	99.58			PK	Horizontal
2	2462.99	98.15	-1.07	97.08			AV	Horizontal
3	2483.50	47.36	-1.15	46.21	74.00	27.79	PK	Horizontal
4	2483.50	39.60	-1.15	38.45	54.00	15.55	AV	Horizontal
5	2487.90	46.43	-0.94	45.49	54.00	8.51	AV	Horizontal
6	2487.98	52.05	-0.94	51.11	74.00	22.89	PK	Horizontal
7	4924.00	42.30	10.19	52.49	74.00	21.51	PK	Horizontal
8	4924.00	34.16	10.19	44.35	54.00	9.65	AV	Horizontal
9	7386.00	27.49	11.57	39.06	74.00	34.94	PK	Horizontal
10	7386.00	19.37	11.57	30.94	54.00	23.06	AV	Horizontal
11	9848.00	27.47	14.74	42.21	74.00	31.79	PK	Horizontal
12	9848.00	18.74	14.74	33.48	54.00	20.52	AV	Horizontal
13	2461.07	92.68	-1.14	91.54			AV	Vertical
14	2462.08	95.20	-1.10	94.10			PK	Vertical
15	2483.50	36.60	-1.15	35.45	54.00	18.55	AV	Vertical
16	2483.50	44.51	-1.15	43.36	74.00	30.64	PK	Vertical
17	2488.13	41.25	-0.93	40.32	54.00	13.68	AV	Vertical
18	2488.80	48.11	-0.89	47.22	74.00	26.78	PK	Vertical
19	4924.00	41.32	10.19	51.51	74.00	22.49	PK	Vertical
20	4924.00	33.57	10.19	43.76	54.00	10.24	AV	Vertical
21	7386.00	28.87	11.57	40.44	74.00	33.56	PK	Vertical
22	7386.00	20.25	11.57	31.82	54.00	22.18	AV	Vertical
23	9848.00	27.15	14.74	41.89	74.00	32.11	PK	Vertical
24	9848.00	18.70	14.74	33.44	54.00	20.56	AV	Vertical

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	BT-LE 1Mbps	Frequency	2402MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.15	40.34	-1.42	38.92	54.00	15.08	AV	Horizontal
2	2387.43	50.34	-1.41	48.93	74.00	25.07	PK	Horizontal
3	2390.00	39.02	-1.37	37.65	54.00	16.35	AV	Horizontal
4	2390.00	48.66	-1.37	47.29	74.00	26.71	PK	Horizontal
5	2401.87	95.20	-1.26	93.94			AV	Horizontal
6	2402.16	95.68	-1.25	94.43			PK	Horizontal
7	4804.00	41.29	9.19	50.48	74.00	23.52	PK	Horizontal
8	4804.00	33.63	9.19	42.82	54.00	11.18	AV	Horizontal
9	7206.00	28.96	14.32	43.28	74.00	30.72	PK	Horizontal
10	7206.00	19.79	14.32	34.11	54.00	19.89	AV	Horizontal
11	9608.00	28.22	14.44	42.66	74.00	31.34	PK	Horizontal
12	9608.00	19.43	14.44	33.87	54.00	20.13	AV	Horizontal
13	2382.09	40.23	-1.50	38.73	54.00	15.27	AV	Vertical
14	2385.83	51.36	-1.43	49.93	74.00	24.07	PK	Vertical
15	2390.00	48.65	-1.37	47.28	74.00	26.72	PK	Vertical
16	2390.00	39.31	-1.37	37.94	54.00	16.06	AV	Vertical
17	2401.70	88.44	-1.26	87.18			PK	Vertical
18	2401.91	87.63	-1.26	86.37			AV	Vertical
19	4804.00	41.67	9.19	50.86	74.00	23.14	PK	Vertical
20	4804.00	34.60	9.19	43.79	54.00	10.21	AV	Vertical
21	7206.00	20.13	14.32	34.45	54.00	19.55	AV	Vertical
22	7206.00	27.64	14.32	41.96	74.00	32.04	PK	Vertical
23	9608.00	27.04	14.44	41.48	74.00	32.52	PK	Vertical
24	9608.00	19.16	14.44	33.60	54.00	20.40	AV	Vertical

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	BT-LE 1Mbps	Frequency	2440MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4880.00	42.12	9.75	51.87	74.00	22.13	PK	Horizontal
2	4880.00	34.13	9.75	43.88	54.00	10.12	AV	Horizontal
3	7320.00	28.42	12.66	41.08	74.00	32.92	PK	Horizontal
4	7320.00	20.42	12.66	33.08	54.00	20.92	AV	Horizontal
5	9760.00	27.27	14.77	42.04	74.00	31.96	PK	Horizontal
6	9760.00	19.82	14.77	34.59	54.00	19.41	AV	Horizontal
7	4880.00	43.74	9.75	53.49	74.00	20.51	PK	Vertical
8	4880.00	34.26	9.75	44.01	54.00	9.99	AV	Vertical
9	7320.00	20.20	12.66	32.86	54.00	21.14	AV	Vertical
10	7320.00	28.22	12.66	40.88	74.00	33.12	PK	Vertical
11	9760.00	26.32	14.77	41.09	74.00	32.91	PK	Vertical
12	9760.00	19.00	14.77	33.77	54.00	20.23	AV	Vertical

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Channel	BT-LE 1Mbps	Frequency	2480MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2479.68	94.36	-1.29	93.07			PK	Horizontal
2	2479.91	93.62	-1.31	92.31			AV	Horizontal
3	2483.50	36.48	-1.15	35.33	54.00	18.67	AV	Horizontal
4	2483.50	44.92	-1.15	43.77	74.00	30.23	PK	Horizontal
5	2486.70	37.09	-1.00	36.09	54.00	17.91	AV	Horizontal
6	2487.80	45.93	-0.95	44.98	74.00	29.02	PK	Horizontal
7	4960.00	42.81	10.78	53.59	74.00	20.41	PK	Horizontal
8	4960.00	34.35	10.78	45.13	54.00	8.87	AV	Horizontal
9	7440.00	21.12	11.55	32.67	54.00	21.33	AV	Horizontal
10	7440.00	28.85	11.55	40.40	74.00	33.60	PK	Horizontal
11	9920.00	27.24	15.37	42.61	74.00	31.39	PK	Horizontal
12	9920.00	18.68	15.37	34.05	54.00	19.95	AV	Horizontal
13	2479.74	87.35	-1.30	86.05			PK	Vertical
14	2479.86	86.63	-1.30	85.33			AV	Vertical
15	2483.50	44.72	-1.15	43.57	74.00	30.43	PK	Vertical
16	2483.50	36.05	-1.15	34.90	54.00	19.10	AV	Vertical
17	2488.71	37.35	-0.90	36.45	54.00	17.55	AV	Vertical
18	2489.15	46.23	-0.88	45.35	74.00	28.65	PK	Vertical
19	4960.00	42.17	10.78	52.95	74.00	21.05	PK	Vertical
20	4960.00	34.20	10.78	44.98	54.00	9.02	AV	Vertical
21	7440.00	20.10	11.55	31.65	54.00	22.35	AV	Vertical
22	7440.00	28.13	11.55	39.68	74.00	34.32	PK	Vertical
23	9920.00	27.01	15.37	42.38	74.00	31.62	PK	Vertical
24	9920.00	19.02	15.37	34.39	54.00	19.61	AV	Vertical

- Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



3.3 6DB BANDWIDTH MEASUREMENT

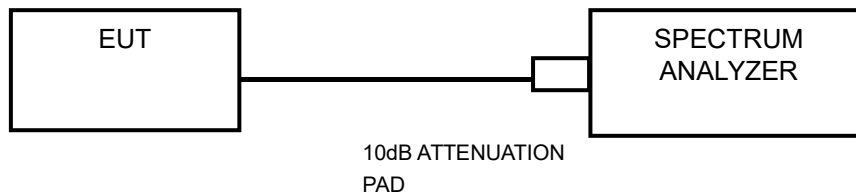
3.3.1 Limits

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 Measurement procedure

- Set resolution bandwidth (RBW) = 100KHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.3 Test setup





3.4 CONDUCTED OUTPUT POWER

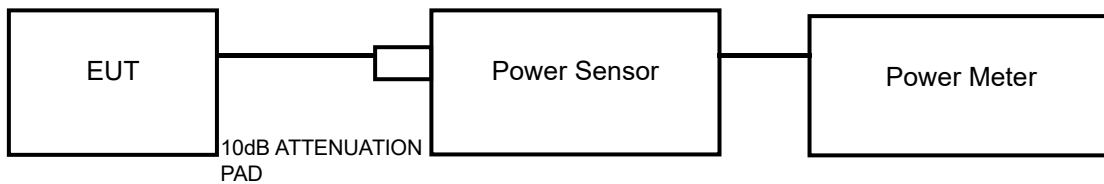
3.4.1 Limits

For DTS employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W,

3.4.2 Measurement procedure

- A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.
- An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the power level.

3.4.3 Test setup





3.5 POWER SPECTRAL DENSITY MEASUREMENT

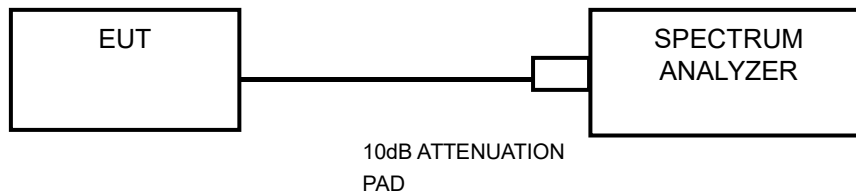
3.5.1 Limits

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 Measurement procedure

- Set instrument center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set RBW to: 3KHz
- Set VBW $\geq 3 \times$ RBW.
- Detector = peak
- Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- Sweep time = auto couple.
- Use the peak marker function to determine the maximum amplitude level.

3.5.3 Test setup





3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 Limits

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 Measurement procedure

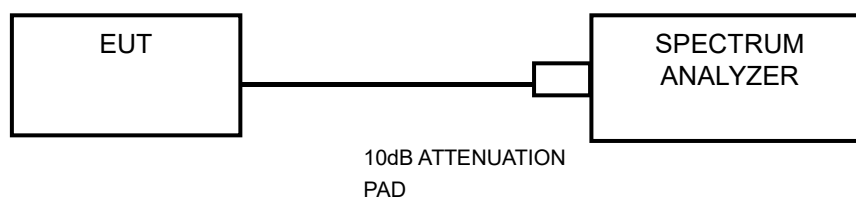
Measurement Procedure -Reference Level

- Set the RBW = 100 kHz.
- Set the VBW $\geq$ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHzband segment within the fundamental EBW.

Measurement Procedure –Unwanted Emission Level

- Set RBW = 100 kHz.
- Set VBW $\geq$ 300 kHz.
- Set span to encompass the spectrum to be examined
- Detector = peak.
- Trace Mode = max hold.
- Sweep = auto couple.

3.6.3 Test setup





3.7 OCCUPIED BANDWIDTH MEASUREMENT

3.7.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.7.2 TEST SETUP





3.8 ANTENNA REQUIREMENT

3.8.1 LIMITS OFFREQUENCY STABILITY

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b) , if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device

3.8.3 ANTENNA GAIN

BLE and WIFI are different antennas, and the maximum antenna gain for both are 1.41dBi.



4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).



5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

----- End of the Report -----



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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