



No.:
FCCSZ2025-0046-RF

TEST REPORT

FCC ID : 2AAGE5081G98

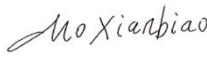
NAME OF SAMPLE : Tablet

APPLICANT : Chengdu Vantron Technology Co., Ltd.

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant		Name: Chengdu Vantron Technology Co., Ltd. Address: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China	
Manufacturer		Name: Chengdu Vantron Technology Co., Ltd. Address: No.5 GaoPeng Road, Hi-Tech Zone, Chengdu, SiChuan, P.R. China	
Equipment Under Test		Name: Tablet Model/Type: VT-TABLET-5081G Brand: N/A Serial NO.: N/A Sample NO.: 202506048864-1	
Date of Receipt.	Jun.4,2025	Date of Testing	Jun.4,2025 ~ Jun.15,2025
Test Specification		Test Result	
FCC Part 15, Subpart C, Section 15.225, 15.247 FCC Part 15, Subpart E, Section 15.407		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: Jul.15,2025		
Compiled by:  Liang Jiatong Name Signature	Reviewed by:  Mo Xianbiao Name Signature	Approved by:  Dong Sanbi 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.



TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST LOCATION	8
2 GENERAL INFORMATION	9
2.1 GENERAL PRODUCT INFORMATION	9
2.2 DESCRIPTION OF ACCESSORIES	10
2.3 OPERATING FREQUENCY OF EACH CHANNEL	10
2.4 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	12
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	14
2.6 DESCRIPTION OF SUPPORT UNITS	14
3 TEST TYPES AND RESULTS	15
3.1 CONDUCTED EMISSION	15
3.2 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS	18
4 PHOTOGRAPHS OF TEST SETUP	46
5 PHOTOGRAPHS OF THE EUT	47



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0046-RF	Original release	Jul.15,2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

2.4G WIFI

APPLIED STANDARD: FCC Part 15 Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	See section 3.1
FCC Part 15.247(d) FCC Part 15.205	Radiated Emission and Restricted bands Measurements	PASS	See section 3.2

BT-3DH5

APPLIED STANDARD: FCC Part 15 Subpart C			
15.207	AC Power Conducted Emission	PASS	See section 3.1
FCC 15.247(d), FCC 15.209, FCC 15.205	Radiated Emissions	PASS	See section 3.2

BT-LE

APPLIED STANDARD: FCC Part 15 Subpart C			
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

5G WIFI

APPLIED STANDARD: FCC PART 15, Subpart E Section 15.407			
15.207	AC Power Conducted Emission	PASS	See section 3.1
FCC 15.407(b)	Radiated Emission and Bandedge	PASS	See section 3.2

NFC

APPLIED STANDARD: FCC Part 15, Subpart C Section 15.225			
15.207	AC Power Conducted Emission	PASS	See section 3.1
15.225 (d) 15.209	Radiated Emissions	PASS	See section 3.2

Note 1:

Add e Fuse power supply circuit, which is a non-RF circuit. Only radiated spurious emission measurement and conducted emission were tested in the report, other test items and test data will refer to the report. (Report No.: 4790388615-2, FCC ID: 2AAGE5081G98, Grant Date: 2022-05-06)



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	2026/4/22
#3Shielding room	MORI	443	N/A	3 year	2026/5/16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168587	1 year	2025/7/2
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2026/4/22
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2026/4/22
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	CS0300023	1 year	2026/4/22
10db attenuator	JUNKE	SMA-10-18-N	250312743	1 year	2026/6/6
Power splitter	Anritsu	K240CPOWERDIVIDER	012334	1 year	2026/6/6
Temperature and humidity meter	/	C193561457	C193561457	1 year	2026/4/28
Radiation Spurious Test - 3M Chamber #2					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2026/4/22
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2026/5/21
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	01133	1 year	2026/1/22
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2026/3/28
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2026/3/21
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	2026/4/22
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2026/4/22
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2026/4/22
Preamplifier(18GHz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2026/4/22
Temperature and humidity meter	/	C193561517	C193561517	1 year	2026/4/28
Radiation Spurious Test - 3M Chamber #1					
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2026/5/21
Loop antenna(8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2026/6/5
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	01132	1 year	2026/2/27
Horn antenna(1GHz-18GHz)	SCHWARZBECK	BBHA9120D	02793	1 year	2026/1/20
3m anechoic chamber	MORI	966	N/A	1 year	2026/5/18
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2026/4/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2026/4/22
Attenuator	/	SJ-5dB	607684	1 year	2026/2/27
#1 control room	MORI	433	/	1 year	2026/5/16
Temperature and humidity meter	/	C193561473	C193561473	1 year	2026/4/28



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:

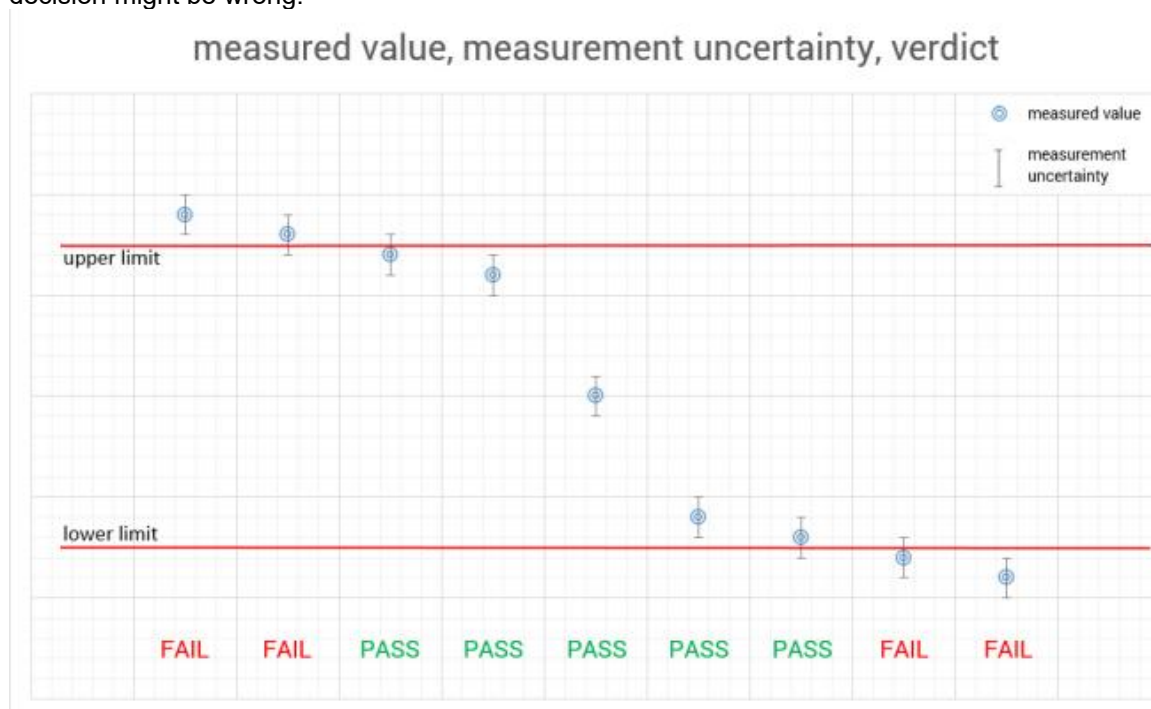
No.	Item	Measurement Uncertainty
1	Conducted emission test	+/-2.7 dB
2	Radiated emissions(25MHz-1GHz)	±5.0 dB
	Radiated emissions(1GHz-18GHz)	±4.8 dB
3	Temperature	±0.73 °C
4	Humidity	±3.90 %
5	Supply voltages	±0.37 %
6	Time	±0.27 %

Remark: 95% Confidence Levels, k=2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of 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.





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	Tablet
BRAND	N/A
TEST MODEL	VT-TABLET-5081G
POWER SUPPLY	DC 5V 2A from adapter DC 3.8V from Li-ion Battery
MODULATION TECHNOLOGY	DSSS, OFDM,ASK
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK, $\pi/4$ -DQPSK, 8DPSK ASK
OPERATING FREQUENCY	2412MHz~2462MHz for 11b/g/n(HT20) 2422MHz~2452MHz for 11n(HT40) 5180MHz~5240MHz for 11a/n(HT20)/n(HT40)/ac(VHT20)/ac(VHT40)/ac(VHT80) 5745MHz~5825MHz for 11a/n(HT20)/n(HT40)/ac(VHT20)/ac(VHT40)/ac(VHT80) 2402MHz~2480MHz for BLE-1M&2M 2402MHz~2480MHz for BT 13.56MHz for NFC
ANTENNA TYPE AND GAIN (Remark 4/5)	FPC Antenna 1, 2.4G with 2.10dBi gain,5G with 2.4dBi gain FPC Antenna 1, 2.4G with 3.40dBi gain,5G with 1.4dBi gain Loop Antenna for NFC
HARDWARE VERSION	V1.0
SOFTWARE VERSION	V1.0
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document for detailed product photo. (Report NO.: FCCSZ2025-0046-EUT)
4. Please refer to the antenna report.
5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
6. The EUT have MIMO function, provides 2 completed transmitter and 2 receiver.



2.2 DESCRIPTION OF ACCESSORIES

N/A

2.3 OPERATING FREQUENCY OF EACH CHANNEL

WLAN 2.412 ~ 2.462GHz

2.4G WIFI					
802.11n (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		

WLAN 5.18 ~ 5.32GHz

8 channels are provided for 802.11a, 802.11n(HT20), 802.11ac(VHT20)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz

4 channels are provided for 802.11n(HT40), 802.11ac(VHT40)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190MHz	46	5230MHz

2 channels are provided for 802.11ac(VHT80)

CHANNEL	FREQUENCY
42	5210MHz



WLAN 5.725 ~ 5.850GHz

5 channels are provided for 802.11a,802.11n(HT20),802.11ac(VHT20)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz		

2 channels are provided for 802.11n(HT40), 802.11ac(VHT40)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel provided for 802.11ac(VHT80)

CHANNEL	FREQUENCY
155	5775MHz

NFC

CHANNEL	FREQUENCY
1	13.56MHz

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.



2.4 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	PLC	APCM	
A	√	√	√	2.4G WIFI Function
B	√	√	√	5G WIFI Function
C	√	√	√	BT Function
D	√	√	√	BLE Function
E	√	√	-	NFC Function

Where RE: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST :

- ☒ 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	802.11n(HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40)	3 to 11	3,6, 9	OFDM	BPSK	MCS0
B	802.11n (HT40)	38 to 46	38,46	OFDM	BPSK	MCS0
B	802.11n (HT40)	151 to 159	151,159	OFDM	BPSK	MCS0
C	BT	0 to 78	0 39,78	FHSS	8DPSK	3DH5
D	BLE	0 to 39	0,19,39	DTS	GFSK	1.0 Mbps
E	NFC	1	1	ASK	-	-

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



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	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11n(HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40)	3 to 11	3,6, 9	OFDM	BPSK	MCS0
B	802.11n (HT40)	38 to 46	38,46	OFDM	BPSK	MCS0
B	802.11n (HT40)	151 to 159	151,159	OFDM	BPSK	MCS0
C	BT	0 to 78	0 39,78	FHSS	8DPSK	3DH5
D	BLE	0 to 39	0,19,39	DTS	GFSK	1.0 Mbps
E	NFC	1	1	ASK	-	-

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE	25.2deg. C, 57%RH	DC 5V from adapter	Liu Yuan
PLC	25.2deg. C, 57%RH	DC 5V from adapter	Liu Yuan



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC PART 15, Subpart C. Section 15.247

FCC PART 15, Subpart C. Section 15.225

FCC PART 15, Subpart C. Section 15.407

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

All test items have been performed and recorded as per the above standards

2.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	N/A	N/A	N/A	N/A	N/A		
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION

3.1.1 Limits Of Conducted Emission

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.

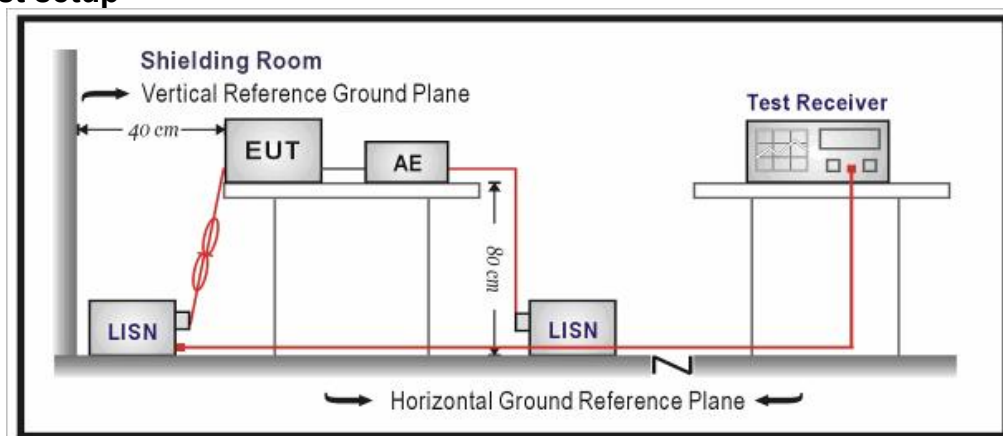
3.1.2 Test Procedures

The basic test procedure was in accordance with ANSI C63.4:2014 (section 7).

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

3.1.3 Test setup

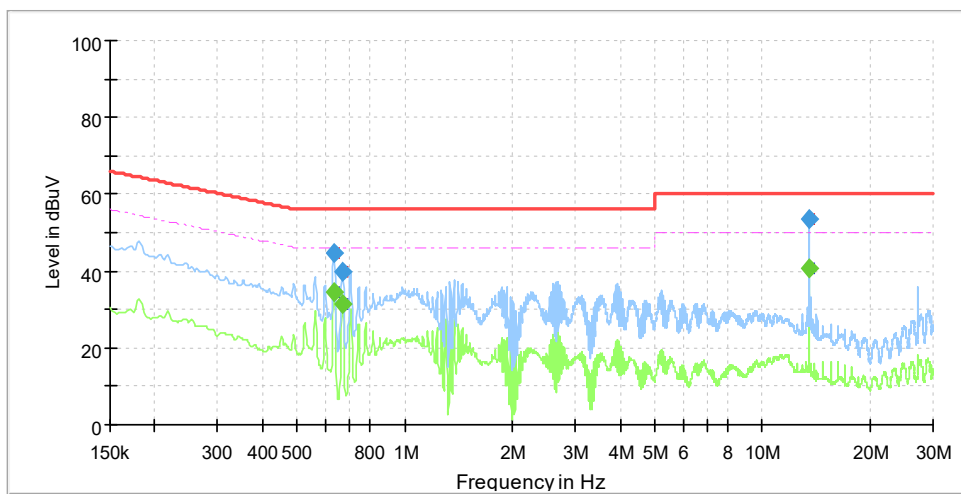




3.1.4 Test Results

CONDUCTED WORST-CASE DATA:

Test Mode	NFC Link	Frequency Range	150KHz ~ 30MHz
Test Voltage	AC 120V/60Hz	PHASE	Line (L)
Environmental Conditions	26deg. C, 51% RH	Tested By	Zhou Ye



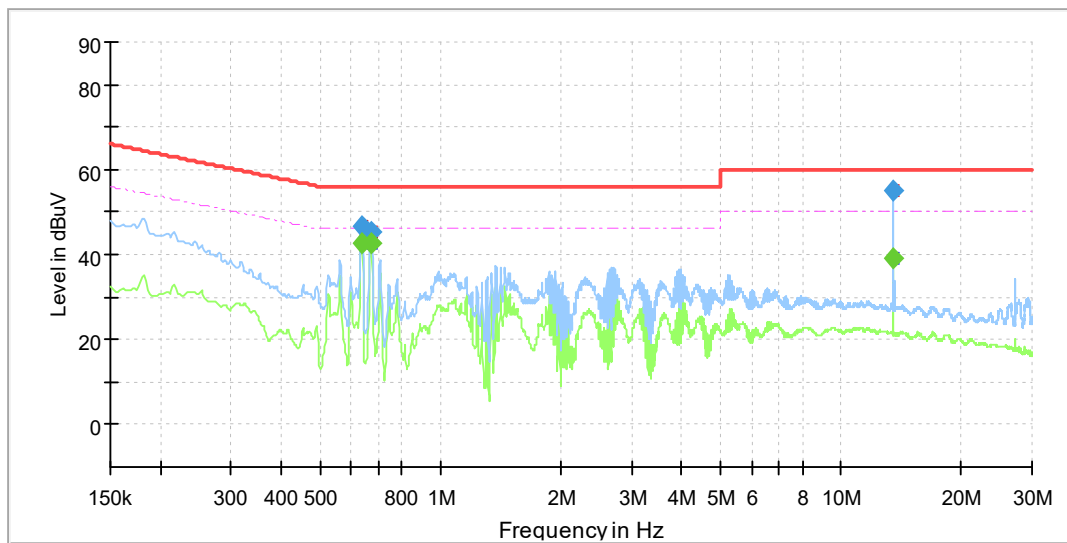
NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.634	44.8	---	56.0	11.2	L1	10.3
2	0.634	---	34.3	46.0	11.7	L1	10.3
3	0.670	39.9	---	56.0	16.1	L1	10.3
4	0.670	---	31.5	46.0	14.5	L1	10.3
5	13.560	53.5	---	60.0	6.5	L1	10.7
6	13.560	---	40.9	50.0	9.1	L1	10.7

Remark:

1. The emission levels of other frequencies were very low against the limit.
2. $\text{Margin(dB)} = \text{Limit[dBuV]} - \text{QuasiPeak [dBuV/m]} \text{ or } \text{Limit[dBuV]} - \text{Average[dBuV/m]}$



Test Mode	NFC Link	Frequency Range	150KHz ~ 30MHz
Test Voltage	AC 120V/60Hz	PHASE	Line (N)
Environmental Conditions	26deg. C, 51% RH	Tested By	Zhou Ye



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.634	46.8	---	74.0	9.2	N	10.3
2	0.636	---	42.8	64.0	3.2	N	10.3
3	0.670	45.2	---	74.0	10.8	N	10.3
4	0.672	---	42.5	64.0	3.5	N	10.3
5	13.560	---	39.0	64.0	5.1	N	10.7
6	13.560	54.9	---	74.0	11.0	N	10.7

Remark:

1. The emission levels of other frequencies were very low against the limit.
2. $\text{Margin(dB)} = \text{Limit[dB}\mu\text{V]} - \text{QuasiPeak [dB}\mu\text{V/m]} \text{ or } \text{Limit[dB}\mu\text{V]} - \text{Average[dB}\mu\text{V/m]}$



3.2 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS

3.2.1 Limit

2.4G WIFI/BT

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.



5G WIFI

AP PLICABLE TO	LIMIT	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK:74 (dBμV/m)	AV:54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE:

For transmitters operating in the 5.725-5.85 GHz band:Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:



NFC

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

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).

- 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.

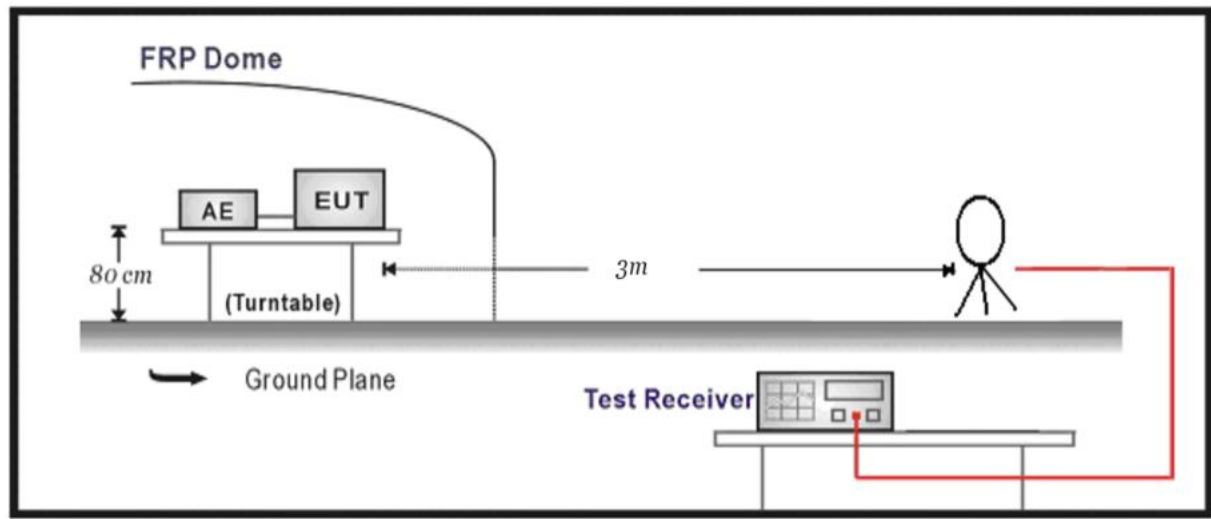


NOTE:

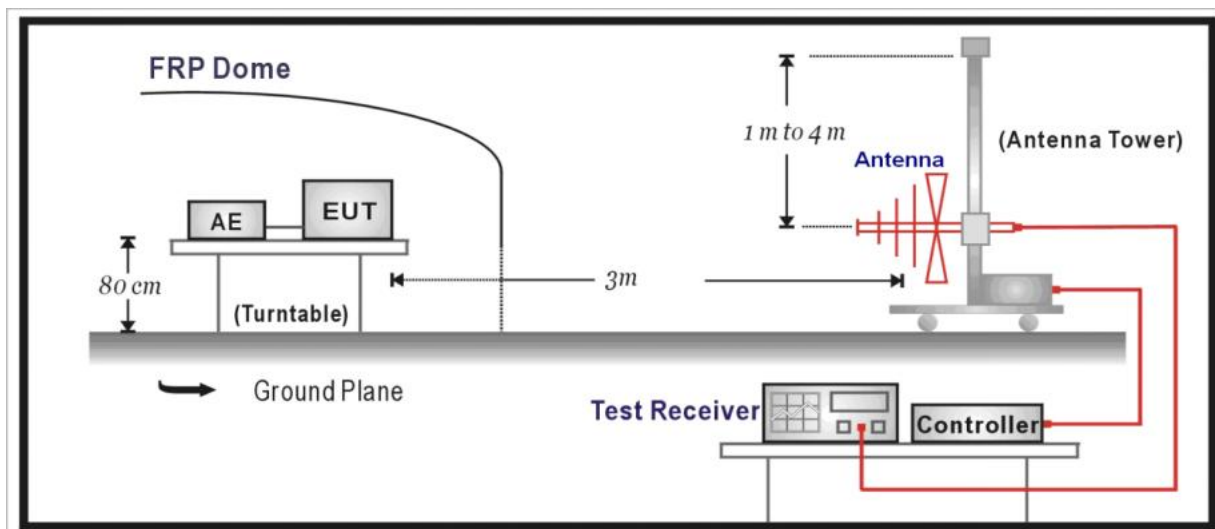
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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

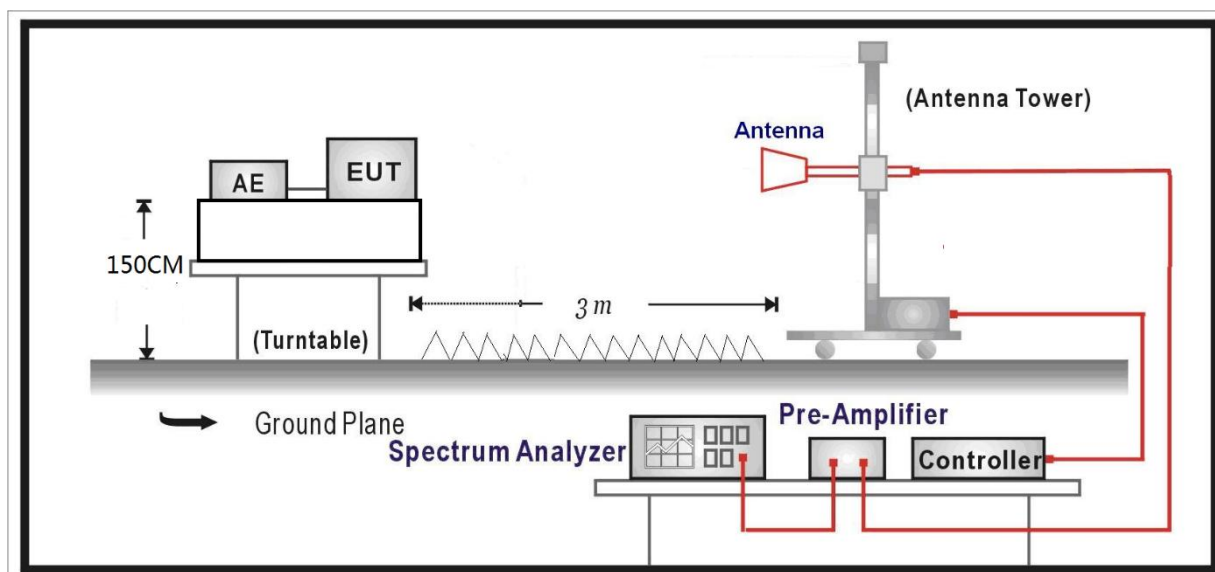
Below 30MHz Test Setup:



Below 1GHz Test Setup:



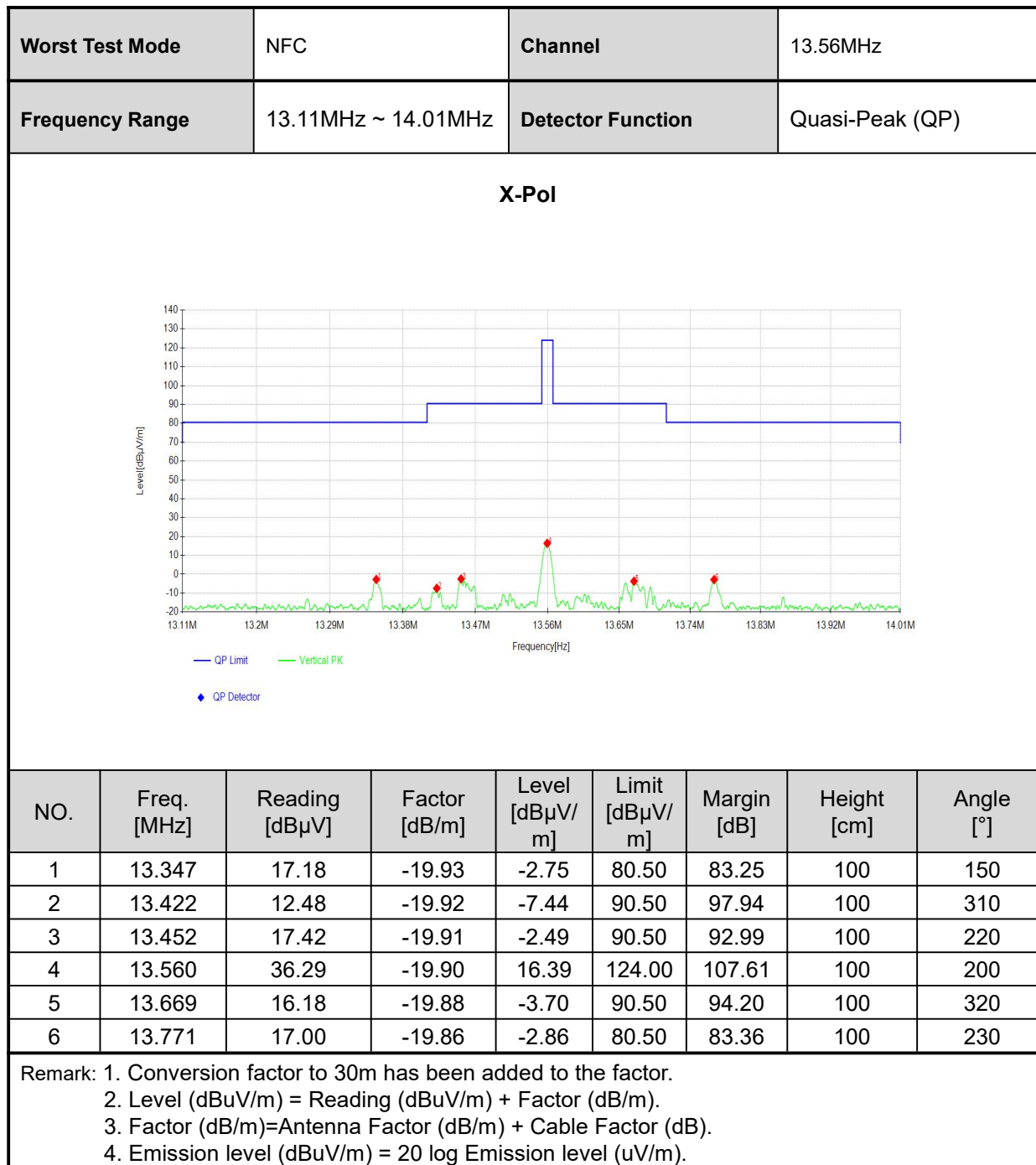
Above 1GHz Test Setup:

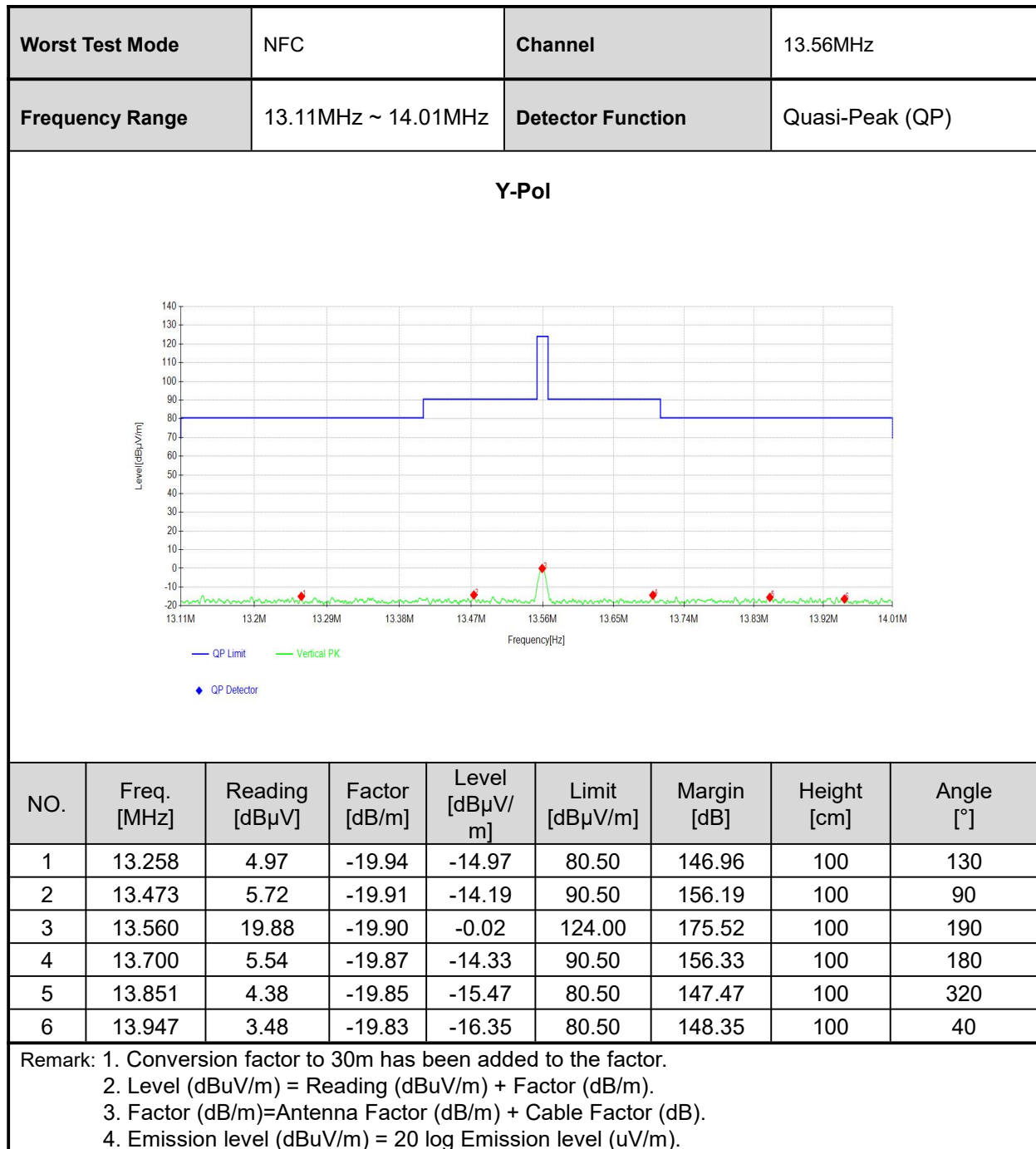


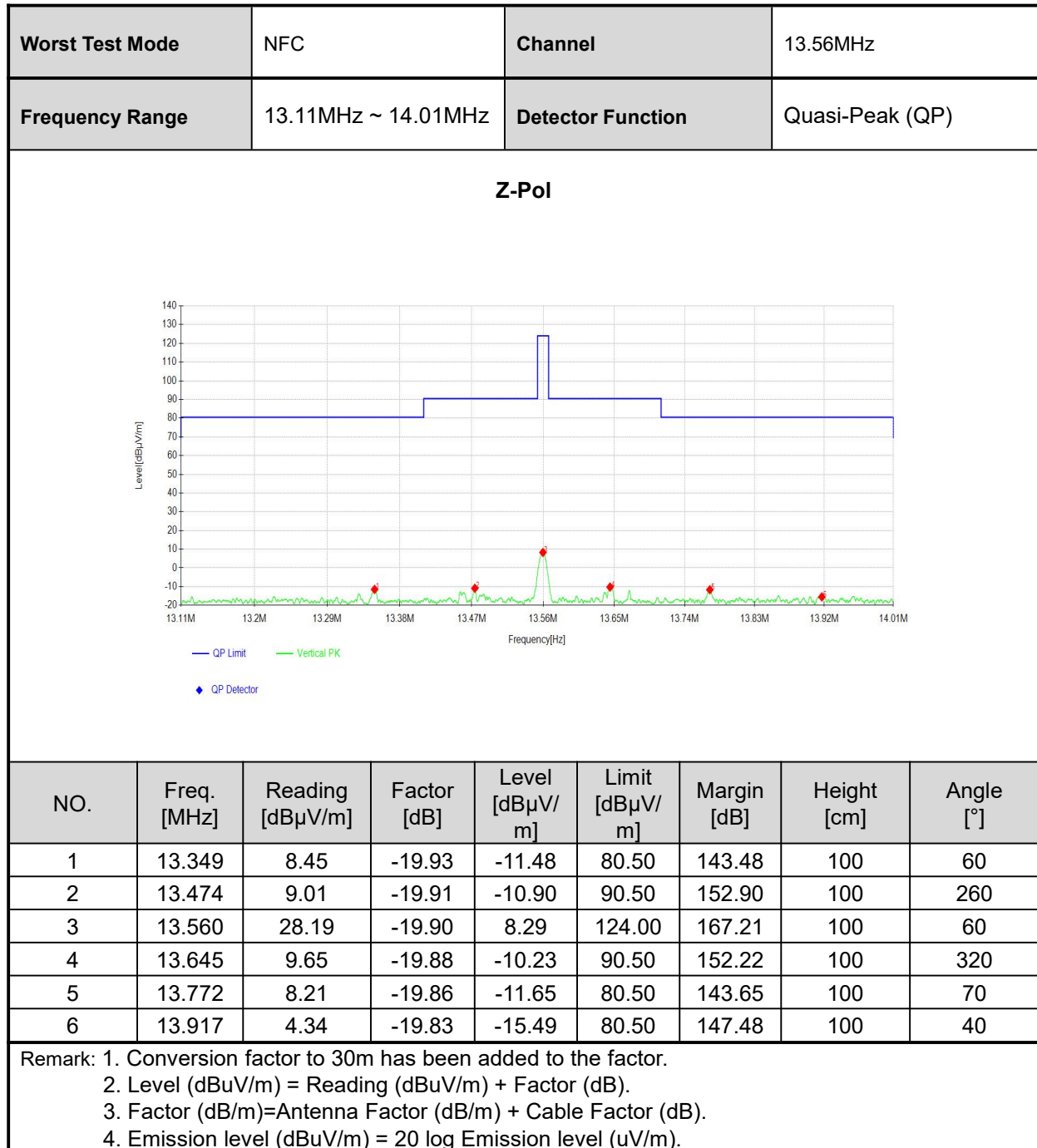


3.2.4 Test results

Result of The field strength of Fundamental Emission





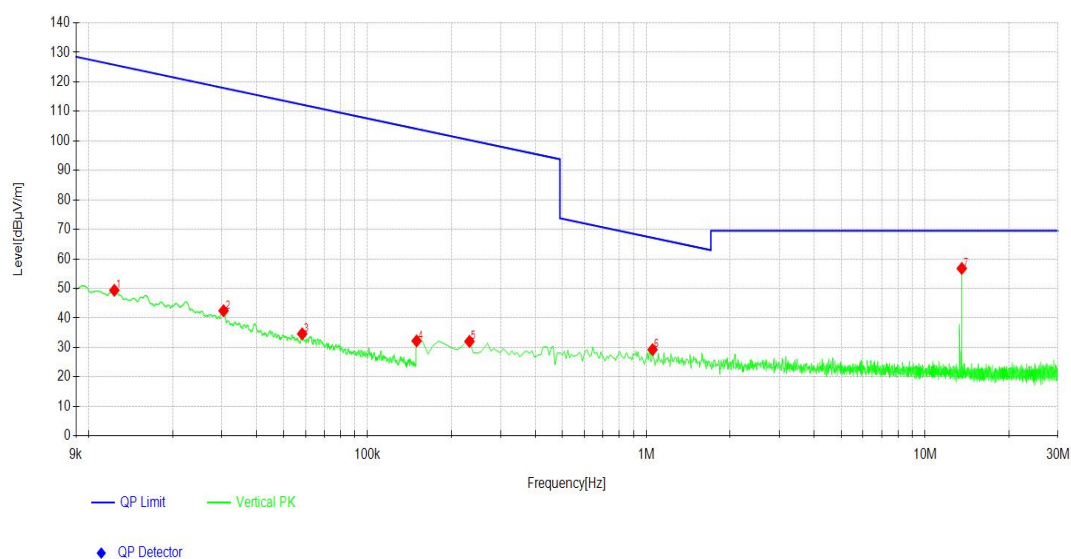




Result of Radiated Emissions(9kHz~30MHz)

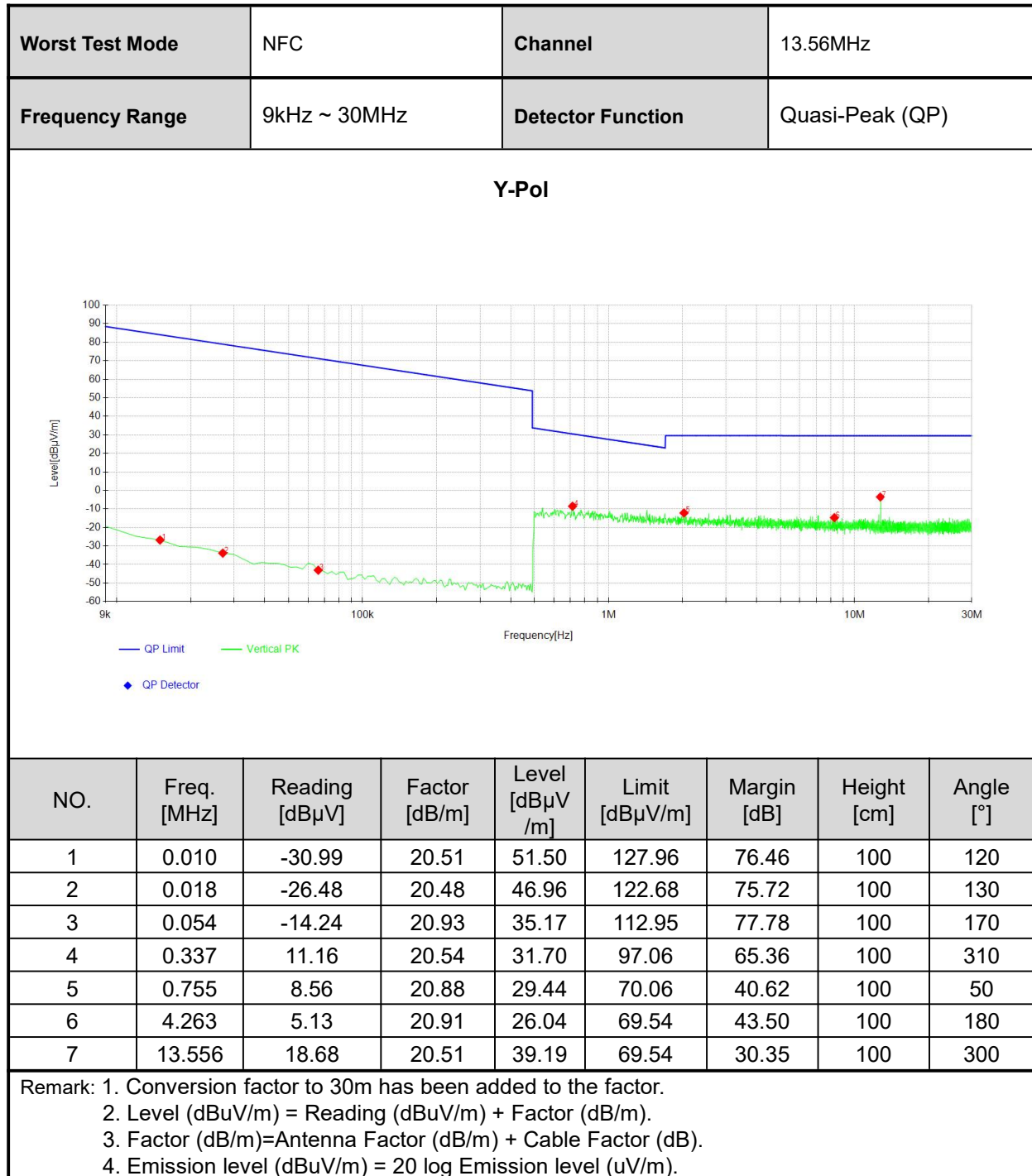
Worst Test Mode	NFC	Channel	13.56MHz
Frequency Range	9kHz ~ 30MHz	Detector Function	Quasi-Peak (QP)

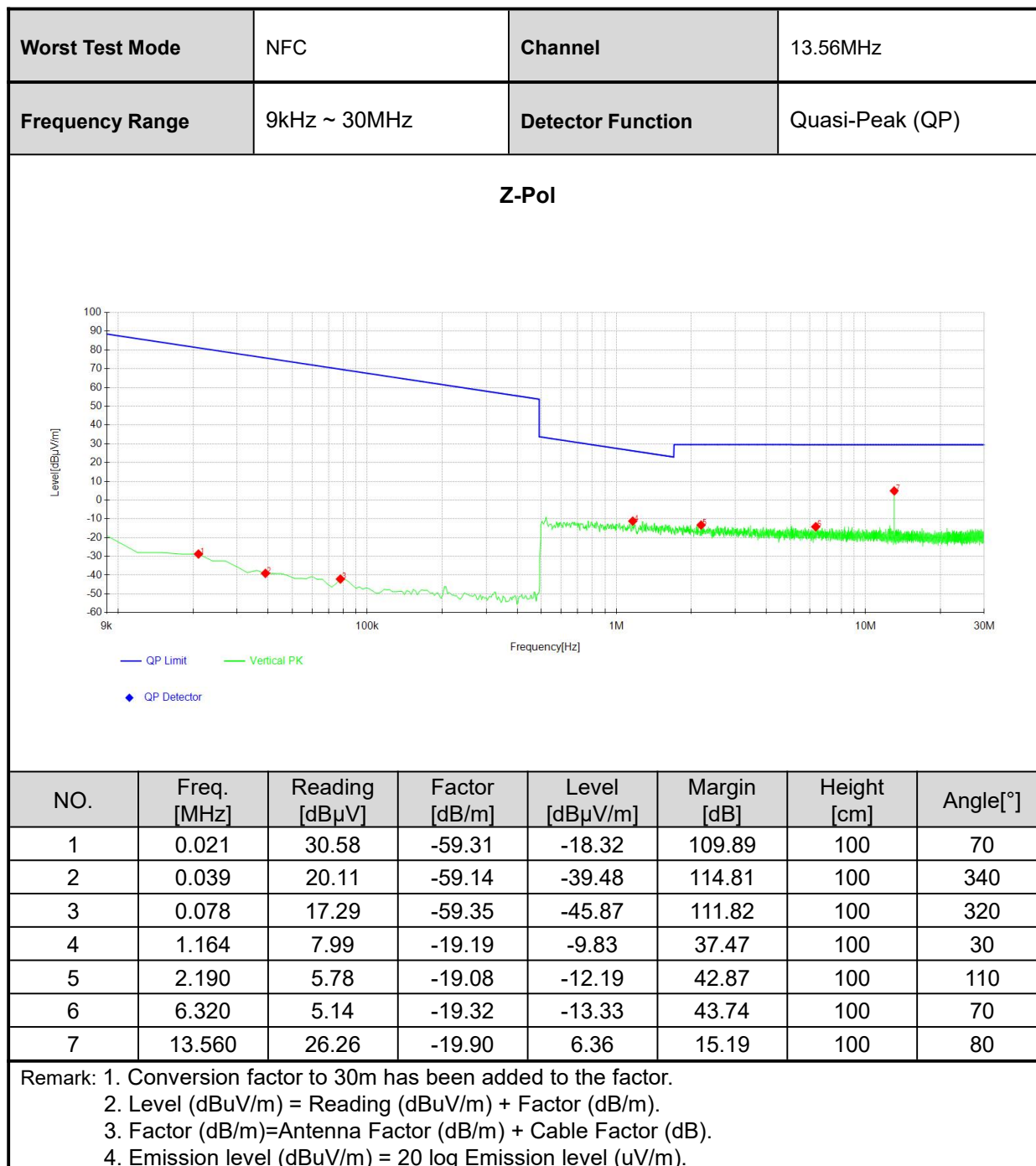
X-Pol



NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]
1	0.012	28.88	20.49	49.37	125.77	76.40	100	120
2	0.030	22.02	20.43	42.45	117.94	75.49	100	150
3	0.058	13.48	21.13	34.61	112.29	77.68	100	10
4	0.150	12.09	20.13	32.22	104.08	71.86	100	10
5	0.232	11.75	20.32	32.07	100.29	68.22	100	340
6	1.053	8.36	20.90	29.26	67.17	37.91	100	230
7	13.556	36.28	20.51	56.79	69.54	12.75	100	280

Remark: 1. Conversion factor to 30m has been added to the factor.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB/m).
3. Factor (dB/m)=Antenna Factor (dB/m) + Cable Factor (dB).
4. Emission level (dBuV/m) = 20 log Emission level (uV/m).



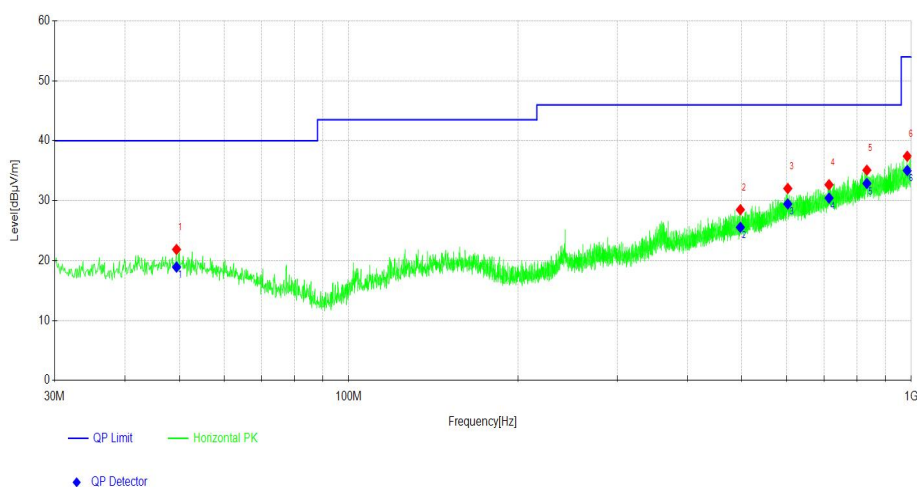




BELOW 1GHz WORST-CASE DATA

Worst Test Mode	802.11N20	Channel	CH 1
Frequency Range	30M ~ 1GHz	Detector Function	Quasi-Peak (QP)

Horizontal



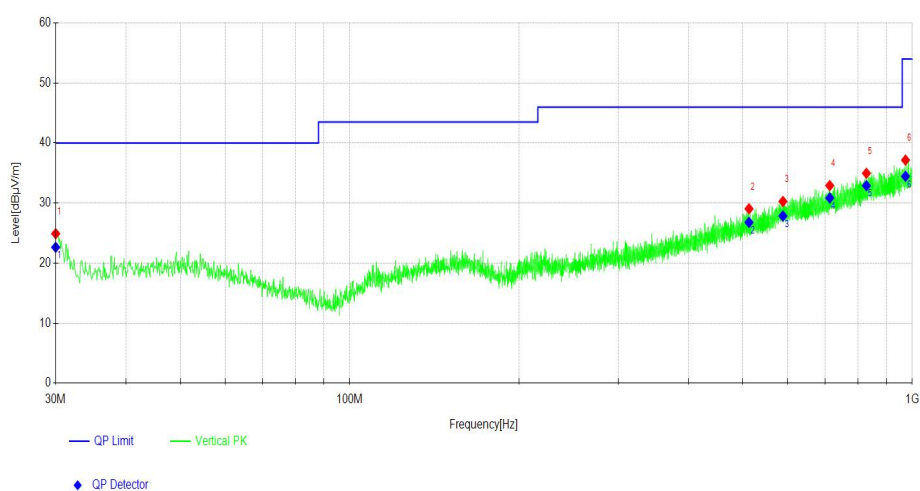
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]
1	49.402	20.24	18.92	40.00	21.08	100	260
2	496.811	25.10	25.56	46.00	20.44	200	190
3	603.230	27.61	29.46	46.00	16.54	100	120
4	714.209	28.91	30.44	46.00	15.56	100	80
5	833.919	30.80	32.88	46.00	13.12	100	10
6	983.896	32.25	35.03	54.00	18.97	100	80

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBμV/m) = Reading (dBμV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



Worst Test Mode	802.11N20	Channel	CH 1
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Vertical



NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]
1	30.000	18.91	22.64	40.00	17.36	200	300
2	512.62	25.60	26.79	46.00	19.21	100	290
3	589.06	27.14	27.85	46.00	18.15	200	100
4	713.43	28.91	30.85	46.00	15.15	200	20
5	828.97	30.78	32.90	46.00	13.10	200	250
6	972.93	32.34	34.46	54.00	19.54	200	260

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]



2.4G WIFI

ABOVE 1GHz DATA

All modes(802.11b/g/n) have been tested, and the worst-case was recorded in this report.

Channel		802.11N20 CH 1		Frequency		2412MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2388.10	52.88	-0.17	52.71	74.00	19.79	PK
2	2389.41	42.62	-0.16	42.46	54.00	10.54	AV
3	2390.00	54.76	-0.15	54.61	74.00	17.89	PK
4	2390.00	42.57	-0.15	42.42	54.00	10.58	AV
5	2412.84	92.77	0.16	92.93			AV
6	2413.17	99.61	0.17	99.78			PK
7	4824.00	42.27	9.58	51.85	74.00	22.15	PK
8	4824.00	33.77	9.58	43.35	54.00	10.65	AV
9	7236.00	20.36	13.96	34.32	54.00	19.68	AV
10	7236.00	27.78	13.96	41.74	74.00	32.26	PK
11	9648.00	27.37	14.33	41.70	74.00	32.30	PK
12	9648.00	20.01	14.33	34.34	54.00	19.66	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2385.33	50.42	-0.21	50.21	74.00	21.79	PK
2	2385.95	40.70	-0.20	40.50	54.00	13.00	AV
3	2390.00	50.49	-0.15	50.34	74.00	21.66	PK
4	2390.00	40.83	-0.15	40.68	54.00	12.32	AV
5	2413.18	98.22	0.17	98.39			PK
6	2413.42	90.72	0.17	90.89			AV
7	4824.00	42.55	9.58	52.13	74.00	21.87	PK
8	4824.00	34.18	9.58	43.76	54.00	10.24	AV
9	7236.00	20.63	13.96	34.59	54.00	19.41	AV
10	7236.00	27.73	13.96	41.69	74.00	32.31	PK
11	9648.00	27.94	14.33	42.27	74.00	31.73	PK
12	9648.00	19.71	14.33	34.04	54.00	19.96	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m].							



Channel		802.11N20 CH 6		Frequency		2437MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4874.00	42.86	9.66	52.52	74.00	21.48	PK
2	4874.00	34.01	9.66	43.67	54.00	10.33	AV
3	7311.00	21.05	12.65	33.70	54.00	20.30	AV
4	7311.00	29.00	12.65	41.65	74.00	32.35	PK
5	9748.00	27.73	14.73	42.46	74.00	31.54	PK
6	9748.00	19.65	14.73	34.38	54.00	19.62	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4874.00	42.85	9.66	52.51	74.00	21.49	PK
2	4874.00	34.55	9.66	44.21	54.00	9.79	AV
3	7311.00	20.98	12.65	33.63	54.00	20.37	AV
4	7311.00	29.24	12.65	41.89	74.00	32.11	PK
5	9748.00	28.20	14.73	42.93	74.00	31.07	PK
6	9748.00	19.57	14.73	34.30	54.00	19.70	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



Channel		802.11N20 CH 11		Frequency		2462MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2462.79	96.43	0.64	97.07			AV
2	2463.17	102.70	0.65	103.35			PK
3	2483.50	47.52	0.45	47.97	54.00	6.03	AV
4	2483.50	58.04	0.45	58.49	74.00	15.01	PK
5	2484.01	48.39	0.48	48.87	54.00	3.63	AV
6	2485.63	60.86	0.55	61.41	74.00	10.59	PK
7	4924.00	41.98	10.19	52.17	74.00	21.83	PK
8	4924.00	33.79	10.19	43.98	54.00	10.02	AV
9	7386.00	20.68	11.57	32.25	54.00	21.75	AV
10	7386.00	29.22	11.57	40.79	74.00	33.21	PK
11	9848.00	27.00	14.74	41.74	74.00	32.26	PK
12	9848.00	19.37	14.74	34.11	54.00	19.89	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2462.97	94.26	0.65	94.91			AV
2	2463.21	100.24	0.65	100.89			PK
3	2483.50	59.05	0.45	59.50	74.00	14.50	PK
4	2483.50	48.55	0.45	49.00	54.00	3.50	AV
5	2483.91	61.39	0.47	61.86	74.00	11.14	PK
6	2485.00	48.06	0.52	48.58	54.00	3.92	AV
7	4924.00	41.88	10.19	52.07	74.00	21.93	PK
8	4924.00	33.87	10.19	44.06	54.00	9.94	AV
9	7386.00	20.66	11.57	32.23	54.00	21.77	AV
10	7386.00	28.34	11.57	39.91	74.00	34.09	PK
11	9848.00	26.54	14.74	41.28	74.00	32.72	PK
12	9848.00	19.53	14.74	34.27	54.00	19.73	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



BT-3DH5

ABOVE 1GHz DATA

Channel		BT-3DH5-0		Frequency		2402MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2388.10	52.88	-0.17	52.71	74.00	19.79	PK
2	2389.41	42.62	-0.16	42.46	54.00	10.54	AV
3	2390.00	54.76	-0.15	54.61	74.00	17.89	PK
4	2390.00	42.57	-0.15	42.42	54.00	10.58	AV
5	2412.84	92.77	0.16	92.93			AV
6	2413.17	99.61	0.17	99.78			PK
7	4824.00	42.27	9.58	51.85	74.00	22.15	PK
8	4824.00	33.77	9.58	43.35	54.00	10.65	AV
9	7236.00	20.36	13.96	34.32	54.00	19.68	AV
10	7236.00	27.78	13.96	41.74	74.00	32.26	PK
11	9648.00	27.37	14.33	41.70	74.00	32.30	PK
12	9648.00	20.01	14.33	34.34	54.00	19.66	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2385.33	50.42	-0.21	50.21	74.00	21.79	PK
2	2385.95	40.70	-0.20	40.50	54.00	13.00	AV
3	2390.00	50.49	-0.15	50.34	74.00	21.66	PK
4	2390.00	40.83	-0.15	40.68	54.00	12.32	AV
5	2413.18	98.22	0.17	98.39			PK
6	2413.42	90.72	0.17	90.89			AV
7	4824.00	42.55	9.58	52.13	74.00	21.87	PK
8	4824.00	34.18	9.58	43.76	54.00	10.24	AV
9	7236.00	20.63	13.96	34.59	54.00	19.41	AV
10	7236.00	27.73	13.96	41.69	74.00	32.31	PK
11	9648.00	27.94	14.33	42.27	74.00	31.73	PK
12	9648.00	19.71	14.33	34.04	54.00	19.96	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m].							



Channel		BT-3DH5-39		Frequency		2441MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4882.00	34.59	9.79	44.38	54.00	9.62	AV
2	4882.00	42.57	9.79	52.36	74.00	21.64	PK
3	7323.00	33.37	12.61	45.98	74.00	28.02	PK
4	7323.00	25.27	12.61	37.88	54.00	16.12	AV
5	9764.00	23.69	14.76	38.45	54.00	15.55	AV
6	9764.00	32.86	14.76	47.62	74.00	26.38	PK
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4882.00	42.77	9.79	52.56	74.00	21.44	PK
2	4882.00	34.24	9.79	44.03	54.00	9.97	AV
3	7323.00	25.33	12.61	37.94	54.00	16.06	AV
4	7323.00	33.17	12.61	45.78	74.00	28.22	PK
5	9764.00	32.26	14.76	47.02	74.00	26.98	PK
6	9764.00	23.48	14.76	38.24	54.00	15.76	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



Channel		BT-3DH5-78		Frequency		2480MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2479.80	102.52	-1.30	101.22			PK
2	2479.90	102.15	-1.30	100.85			AV
3	2483.50	38.29	-1.15	37.14	54.00	16.86	AV
4	2483.50	45.22	-1.15	44.07	74.00	29.93	PK
5	2484.71	38.87	-1.08	37.79	54.00	16.21	AV
6	2485.41	46.98	-1.05	45.93	74.00	28.07	PK
7	4960.00	33.60	10.78	44.38	54.00	9.62	AV
8	4960.00	41.61	10.78	52.39	74.00	21.61	PK
9	7440.00	33.01	11.55	44.56	74.00	29.44	PK
10	7440.00	25.08	11.55	36.63	54.00	17.37	AV
11	9920.00	23.16	15.37	38.53	54.00	15.47	AV
12	9920.00	30.75	15.37	46.12	74.00	27.88	PK
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2479.85	103.04	-1.30	101.74			PK
2	2479.85	102.59	-1.30	101.29			AV
3	2483.50	38.46	-1.15	37.31	54.00	16.69	AV
4	2483.50	45.95	-1.15	44.80	74.00	29.20	PK
5	2484.54	38.19	-1.09	37.10	54.00	16.90	AV
6	2485.19	47.28	-1.06	46.22	74.00	27.78	PK
7	4960.00	41.95	10.78	52.73	74.00	21.27	PK
8	4960.00	33.48	10.78	44.26	54.00	9.74	AV
9	7440.00	25.13	11.55	36.68	54.00	17.32	AV
10	7440.00	32.38	11.55	43.93	74.00	30.07	PK
11	9920.00	32.27	15.37	47.64	74.00	26.36	PK
12	9920.00	22.80	15.37	38.17	54.00	15.83	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBμV/m] - Level [dBuV/m]							



BT-LE

ABOVE 1GHz DATA

Channel		BT-LE-1M-0		Frequency		2402MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2362.21	41.19	-1.29	39.90	54.00	14.10	AV
2	2384.83	49.96	-1.45	48.51	74.00	25.49	PK
3	2390.00	39.23	-1.37	37.86	54.00	16.14	AV
4	2390.00	48.24	-1.37	46.87	74.00	27.13	PK
5	2402.03	99.37	-1.26	98.11			AV
6	2402.24	100.13	-1.25	98.88			PK
7	4804.00	41.94	9.19	51.13	74.00	22.87	PK
8	4804.00	33.97	9.19	43.16	54.00	10.84	AV
9	7206.00	20.09	14.32	34.41	54.00	19.59	AV
10	7206.00	27.53	14.32	41.85	74.00	32.15	PK
11	9608.00	26.72	14.44	41.16	74.00	32.84	PK
12	9608.00	18.12	14.44	32.56	54.00	21.44	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2362.11	39.92	-1.28	38.64	54.00	15.36	AV
2	2380.26	52.08	-1.53	50.55	74.00	23.45	PK
3	2390.00	39.69	-1.37	38.32	54.00	15.68	AV
4	2390.00	48.48	-1.37	47.11	74.00	26.89	PK
5	2401.76	99.63	-1.26	98.37			PK
6	2401.88	96.74	-1.26	95.48			AV
7	4804.00	35.21	9.19	44.40	54.00	9.60	AV
8	4804.00	43.21	9.19	52.40	74.00	21.60	PK
9	7206.00	29.63	14.32	43.95	74.00	30.05	PK
10	7206.00	19.25	14.32	33.57	54.00	20.43	AV
11	9608.00	19.20	14.44	33.64	54.00	20.36	AV
12	9608.00	28.94	14.44	43.38	74.00	30.62	PK
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m].							



Channel		BT-LE-1M-19		Frequency		2441MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4880.00	35.19	9.75	44.94	54.00	9.06	AV
2	4880.00	42.37	9.75	52.12	74.00	21.88	PK
3	7320.00	31.35	12.66	44.01	74.00	29.99	PK
4	7320.00	22.78	12.66	35.44	54.00	18.56	AV
5	9760.00	17.94	14.77	32.71	54.00	21.29	AV
6	9760.00	31.26	14.77	46.03	74.00	27.97	PK
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4880.00	34.08	9.75	43.83	54.00	10.17	AV
2	4880.00	42.92	9.75	52.67	74.00	21.33	PK
3	7320.00	29.14	12.66	41.80	74.00	32.20	PK
4	7320.00	22.36	12.66	35.02	54.00	18.98	AV
5	9760.00	23.49	14.77	38.26	54.00	15.74	AV
6	9760.00	28.37	14.77	43.14	74.00	30.86	PK
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBuV/m] - Level [dBuV/m]							



Channel		BT-LE-1M-39		Frequency		2480MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2479.85	104.84	-1.30	103.54			AV
2	2480.09	106.30	-1.31	104.99			PK
3	2483.50	41.65	-1.15	40.50	54.00	13.50	AV
4	2483.50	49.32	-1.15	48.17	74.00	25.83	PK
5	2483.95	41.66	-1.13	40.53	54.00	13.47	AV
6	2484.25	50.78	-1.11	49.67	74.00	24.33	PK
7	4960.00	37.70	10.78	48.48	54.00	5.52	AV
8	4960.00	44.28	10.78	55.06	74.00	18.94	PK
9	7440.00	22.12	11.55	33.67	54.00	20.33	AV
10	7440.00	29.44	11.55	40.99	74.00	33.01	PK
11	9920.00	24.02	15.37	39.39	54.00	14.61	AV
12	9920.00	30.70	15.37	46.07	74.00	27.93	PK
Vertical							
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2479.75	101.03	-1.30	99.73			AV
2	2479.75	102.29	-1.30	100.99			PK
3	2483.50	49.08	-1.15	47.93	74.00	26.07	PK
4	2483.50	42.82	-1.15	41.67	54.00	12.33	AV
5	2484.51	51.90	-1.09	50.81	74.00	23.19	PK
6	2484.51	41.70	-1.09	40.61	54.00	13.39	AV
7	4960.00	34.18	10.78	44.96	54.00	9.04	AV
8	4960.00	41.90	10.78	52.68	74.00	21.32	PK
9	7440.00	31.13	11.55	42.68	74.00	31.32	PK
10	7440.00	21.21	11.55	32.76	54.00	21.24	AV
11	9920.00	17.65	15.37	33.02	54.00	20.98	AV
12	9920.00	27.28	15.37	42.65	74.00	31.35	PK
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]							



5G WIFI

Channel		802.11N40 CH38		Frequency		5190 MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5132.00	50.89	8.18	59.07	74.00	14.93	PK
2	5144.96	39.29	7.98	47.27	54.00	6.73	AV
3	5150.00	40.39	8.03	48.42	54.00	5.58	AV
4	5150.00	51.18	8.03	59.21	74.00	14.79	PK
5	5191.07	85.37	7.64	93.01			AV
6	5193.47	92.95	7.64	100.59			PK
7	10380.00	32.11	15.64	47.75	68.20	20.45	PK
8	10380.00	22.11	15.64	37.75	54.00	16.25	AV
9	15570.00	26.68	21.67	48.35	74.00	25.65	PK
10	15570.00	18.04	21.67	39.71	54.00	14.29	AV
Vertical							
1	5124.79	47.47	7.99	55.46	74.00	18.54	PK
2	5132.48	35.32	8.17	43.49	54.00	10.51	AV
3	5150.00	46.55	8.03	54.58	54.00	19.42	AV
4	5150.00	35.91	8.03	43.94	74.00	10.06	PK
5	5191.07	78.33	7.64	85.97			AV
6	5192.03	87.62	7.64	95.26			PK
7	10380.00	30.61	15.64	46.25	68.20	21.95	PK
8	10380.00	21.97	15.64	37.61	54.00	16.39	AV
9	15570.00	26.67	21.67	48.34	74.00	25.66	PK
10	15570.00	18.23	21.67	39.90	54.00	14.10	AV
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[dBuV/m] - Level [dBμV/m]							



Channel		802.11N40 CH46		Frequency		5230 MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5230.93	85.34	8.20	93.54			AV
2	5231.89	93.76	8.19	101.95			PK
3	5350.00	34.92	9.96	44.88	54.00	9.12	AV
4	5350.00	45.19	9.96	55.15	74.00	18.85	PK
5	5377.88	46.21	10.08	56.29	74.00	17.71	PK
6	5411.98	35.03	10.19	45.22	54.00	8.78	AV
7	10460.00	29.82	16.03	45.85	68.20	22.35	PK
8	10460.00	21.18	16.03	37.21	54.00	16.79	AV
9	15690.00	18.50	22.28	40.78	54.00	13.22	AV
10	15690.00	27.83	22.28	50.11	74.00	23.89	PK
Vertical							
1	5228.04	87.00	8.20	95.20			PK
2	5231.41	77.48	8.19	85.67			AV
3	5350.00	45.77	9.96	55.73	74.00	18.27	PK
4	5350.00	34.05	9.96	44.01	54.00	9.99	AV
5	5387.96	46.77	10.07	56.84	74.00	17.16	PK
6	5409.57	34.37	10.29	44.66	54.00	8.84	AV
7	10460.00	29.63	16.03	45.66	68.20	22.54	PK
8	10460.00	20.69	16.03	36.72	54.00	17.28	AV
9	15690.00	19.20	22.28	41.48	54.00	12.52	AV
10	15690.00	28.09	22.28	50.37	74.00	23.63	PK
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[dBuV/m] - Level [dBuV/m]							



Channel		802.11N40 CH151		Frequency		5755 MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5607.13	47.93	8.98	56.91	68.20	11.29	PK
2	5739.95	88.39	8.94	97.33			PK
3	5937.48	46.50	10.73	57.23	68.20	10.97	PK
4	11510.00	29.06	16.53	45.59	74.00	28.41	PK
5	11510.00	22.38	16.53	38.91	54.00	15.09	AV
6	17265.00	25.36	27.22	52.58	68.20	15.62	PK
7	17265.00	17.85	27.22	45.07	54.00	8.93	AV
Vertical							
1	5627.01	47.60	9.03	56.63	68.20	11.57	PK
2	5767.71	87.02	9.00	96.02			PK
3	5940.48	46.88	10.75	57.63	68.20	10.57	PK
4	11510.00	29.24	16.53	45.77	74.00	28.23	PK
5	11510.00	21.30	16.53	37.83	54.00	16.17	AV
6	17265.00	25.49	27.22	52.71	68.20	15.49	PK
7	17265.00	17.29	27.22	44.51	54.00	9.49	AV
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[dBuV/m] - Level [dBuV/m]							



Channel		802.11N40 CH159		Frequency		5795 MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5623.26	46.80	9.01	55.81	68.20	12.39	PK
2	5779.34	86.91	8.20	95.11			PK
3	5942.55	46.11	10.53	56.64	68.20	11.56	PK
4	11590.00	29.32	16.66	45.98	74.00	28.02	PK
5	11590.00	22.64	16.66	39.30	54.00	14.70	AV
6	17385.00	24.47	28.11	52.58	68.20	15.62	PK
7	17385.00	16.45	28.11	44.56	54.00	9.44	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5629.64	46.04	9.05	55.09	68.20	13.11	PK
2	5792.66	85.38	8.61	93.99			PK
3	5938.04	46.32	10.75	57.07	68.20	11.13	PK
4	11590.00	30.60	16.66	47.26	74.00	26.74	PK
5	11590.00	21.93	16.66	38.59	54.00	15.41	AV
6	17385.00	24.05	28.11	52.16	68.20	16.04	PK
7	17385.00	17.75	28.11	45.86	54.00	8.14	AV
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]							



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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