

Test Report

Verified code: 399887

Report No.: E20230328398101-9

Customer: Neusoft Group (Dalian) Co., Ltd.

Address: No.901-7 Huangpu Road, Ganjingzi District,Dalian City, Liaoning Province, China

Sample Name: MEDIA HEADUNIT

Sample Model: INM2004MD

Receive Sample Date: Apr.06,2023

Test Date: Apr.14,2023 ~ May.19,2023

Reference Document: CFR 47, FCC Part 15 Subpart C
RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators

Test Result: Pass

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Reviewed by: *Lin Xiaoming*

Approved by: *Zhang Zetian*

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-07-11

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TABLE OF CONTENTS

1.	TEST RESULT SUMMARY	6
2.	GENERAL DESCRIPTION OF EUT	7
2.1	APPLICANT	7
2.2	MANUFACTURER	7
2.3	FACTORY	7
2.4	BASIC DESCRIPTION OF EQUIPMENT UNDER TEST	7
2.5	CHANNEL LIST	8
2.6	TEST OPERATION MODE	8
2.7	LOCAL SUPPORTIVE INSTRUMENTS	8
2.8	CONFIGURATION OF SYSTEM UNDER TEST	9
2.9	DUTY CYCLE	10
3.	LABORATORY AND ACCREDITATIONS	12
3.1	LABORATORY	12
3.2	ACCREDITATIONS	12
3.3	MEASUREMENT UNCERTAINTY	13
4.	LIST OF USED TEST EQUIPMENT AT GRGT	14
5.	RADIATED SPURIOUS EMISSIONS	15
5.1	LIMITS	15
5.2	TEST PROCEDURES	15
5.3	TEST SETUP	19
5.4	DATA SAMPLE	20
5.5	TEST RESULTS	22
6.	6DB BANDWIDTH	56
6.1	LIMITS	56
6.2	TEST PROCEDURES	56
6.3	TEST SETUP	56
6.4	TEST RESULTS	57
7.	MAXIMUM PEAK OUTPUT POWER	66
7.1	LIMITS	66
7.2	TEST PROCEDURES	66
7.3	TEST SETUP	66
7.4	TEST RESULT	67
8.	POWER SPECTRAL DENSITY	69
8.1	LIMITS	69
8.2	TEST PROCEDURES	69
8.3	TEST SETUP	69
8.4	TEST RESULTS	70
9.	CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS	79
9.1	LIMITS	79
9.2	TEST PROCEDURES	79
9.3	TEST SETUP	79
9.4	TEST RESULTS	80
10.	RESTRICTED BANDS OF OPERATION	113
10.1	LIMITS	113
10.2	TEST PROCEDURES	114

10.3 TEST SETUP..... 114

10.4 TEST RESULTS..... 115

APPENDIX B. PHOTOGRAPH OF THE EUT..... 149

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20230328398101-9	Original Issue	2023-05-26

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
CFR 47, FCC Part 15 Subpart C (§15.247)	Antenna Requirement	§15.203	PASS
	Conducted Emissions	§15.207 (a)	NA ¹
	Radiated Spurious Emission	§15.247(d) §15.205 §15.209	PASS
	6 dB Bandwidth	§15.247 (a)(2)	PASS
	Maximum Peak Output Power	§15.247(b)(3)	PASS
	Power Spectral Density	§15.247(e)	PASS
	Conducted band edges and Spurious Emission	§15.247(d)	PASS
	Restricted bands of operation	§15.205 §15.209 §15.247(d)	PASS

Note: 1.The EUT is power by DC source, not applicable.

2. The EUT have two antenna.The EUT antenna is PCB antenna.The max gain of Antenna is 2.59dBi which accordance 15.203 is considered sufficient to comply with the provisions of this section.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Neusoft Group (Dalian) Co., Ltd.

Address: No.901-7 Huangpu Road, Ganjingzi District,Dalian City, Liaoning Province, China

2.2 MANUFACTURER

Name: Neusoft Group (Dalian) Co., Ltd.

Address: No.901-7 Huangpu Road, Ganjingzi District,Dalian City, Liaoning Province, China

2.3 FACTORY

Name: Qingdao Daesung Electronic Co., Ltd.

Address: No. 37, Mengshahe 1 Road, Jimo Zone Qingdao, Shandong, 266200 China

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: MEDIA HEADUNIT

Product Model: INM2004MD

Adding Model: /

Trade Name: INEOS

FCC ID: 2AZAX-INM2004MD

Power Supply: DC 13.5V,10A

Frequency Band: 2412MHz-2462MHz for 802.11b/g/n HT20;
2422MHz-2452MHz for 802.11n HT40

Modulation Type: DSSS for 802.11b mode;
OFDM for 802.11g/n mode

Antenna Specification: PCB antenna with
Antenna 1:1.83 dBi gain (Max)
Antenna 2:2.59dBi gain (Max)

Temperature Range: -40℃~85℃

Hardware Version: EE-0000002***

Software Version: SW-0000000***

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E20230328398101-0001, E20230328398101-0006

Note: 1.The smart antenna of EUT can not transmit simultaneously, it can switch two antennas intelligently and only one antenna transmits.
2. The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2.5 CHANNEL LIST

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n HT20							
CH03 – CH9 for IEEE 802.11n HT40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

2.6 TEST OPERATION MODE

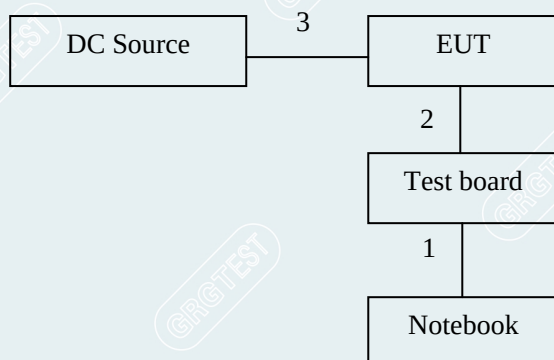
Mode No.	Description of the modes
1	2.4G Wi-Fi TX mode

2.7 LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	LENOVO	TianYi 310-14ISK	MP18DLC6	/
DC Source	Keysight	E36131A	/	/
Test board	/	/	/	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	VGA to USB cable	1	No	0	1.0m
2	DC cable	1	No	0	0.2m
3	DC cable	1	No	0	1.5m

2.8 CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version
Teraterm

Power Setting:

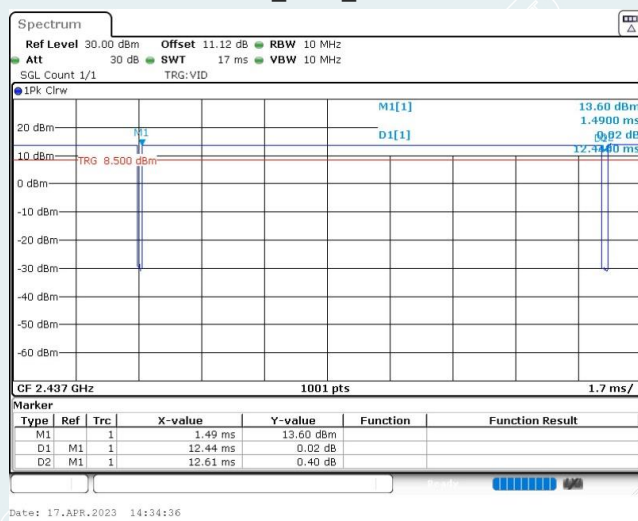
Mode	Date Rate	Frequency (MHz)	Antenna 1 Power Setting	Antenna 2 Power Setting
802.11b	1M	2412	10	10
		2437	10	10
		2462	10	10
802.11g	6M	2412	10	10
		2437	10	10
		2462	10	10
802.11n HT20	MCS0	2412	10	10
		2437	10	10
		2462	10	10
802.11n HT40	MCS0	2422	10	10
		2437	10	10
		2452	10	10

2.9 DUTY CYCLE

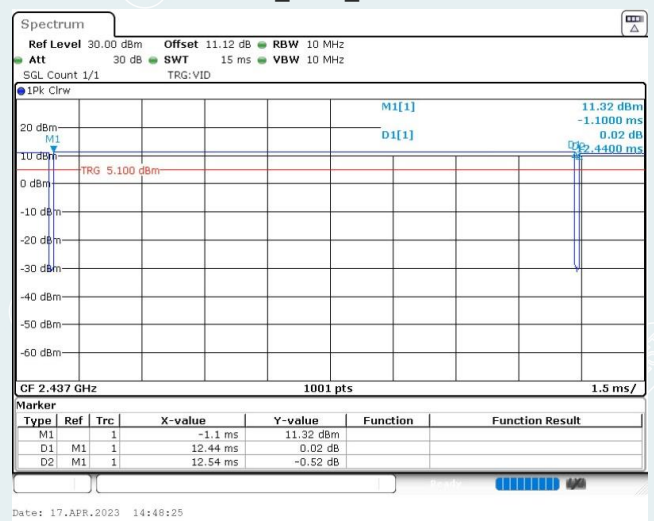
EUT Name	MEDIA HEADUNIT	Model	INM2004MD
Environmental Conditions	23.5 °C/53%RH/101.0kPa	Test Voltage	DC 13.5V
Tested By	Qing Tingting	Tested Date	2023-04-17

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
802.11b	Ant1	2437	12.44	12.61	98.65
	Ant2	2437	12.44	12.54	99.20
802.11g	Ant1	2437	2.07	2.29	90.39
	Ant2	2437	2.07	2.19	94.52
802.11n HT20 SISO	Ant1	2437	1.92	2.05	93.66
	Ant2	2437	1.92	2.07	92.75
802.11n HT40 SISO	Ant1	2437	0.95	1.07	88.79
	Ant2	2437	0.95	1.08	87.96

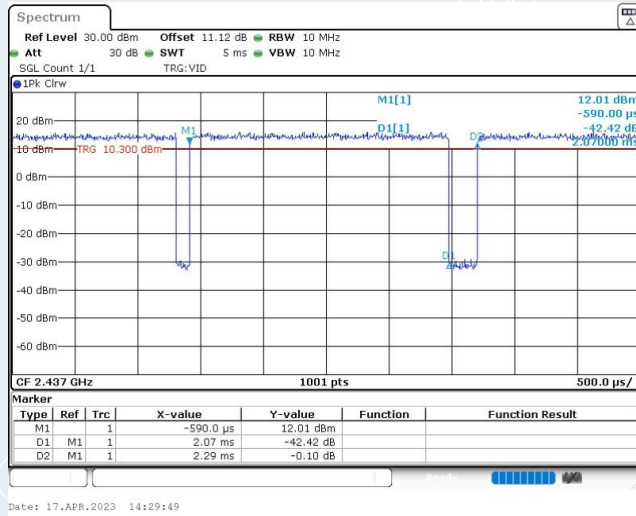
802.11b_Ant1_2437MHz



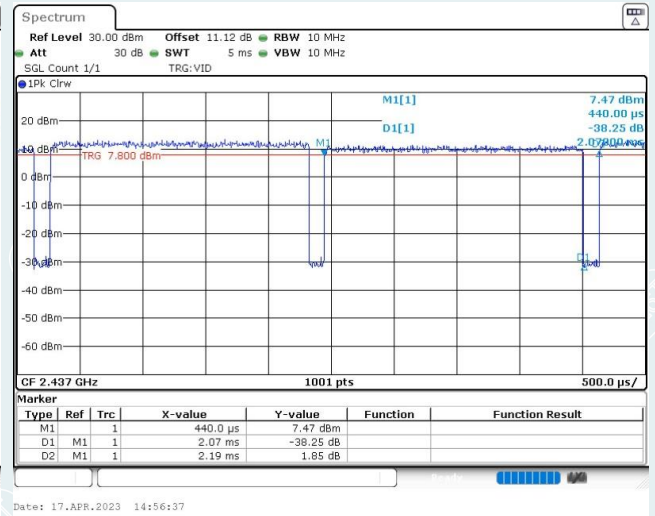
802.11b_Ant2_2437MHz



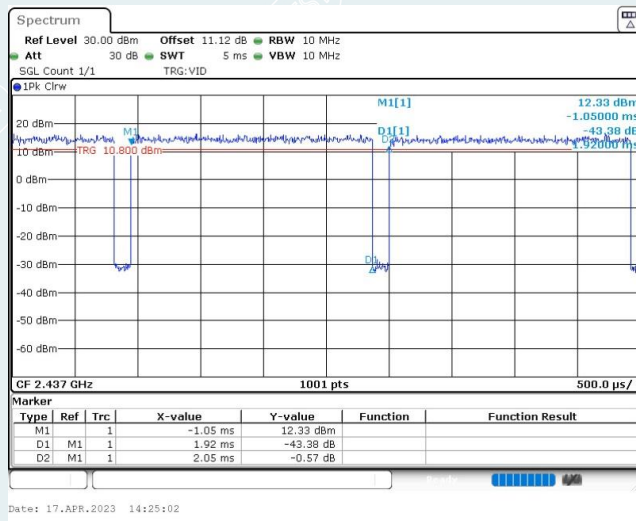
802.11g_Ant1_2437MHz



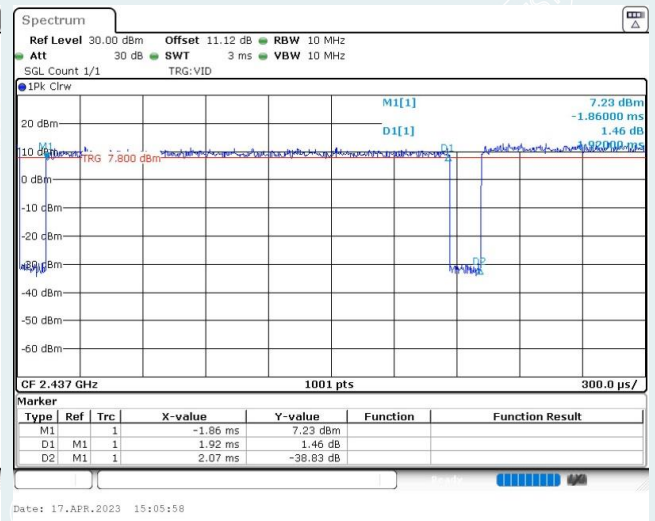
802.11g_Ant2_2437MHz



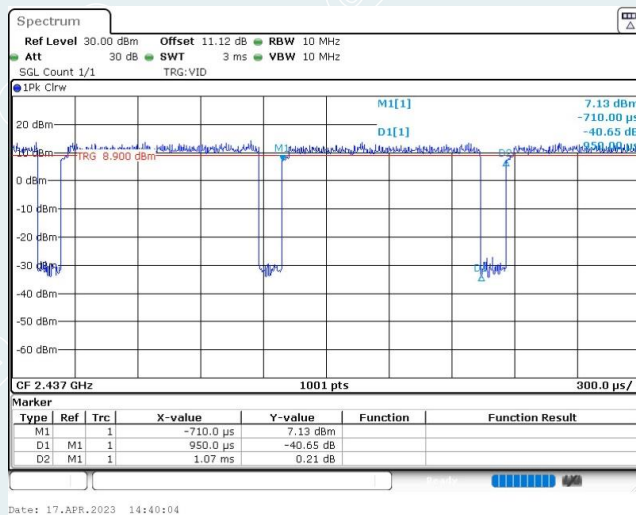
802.11n HT20_Ant1_2437MHz



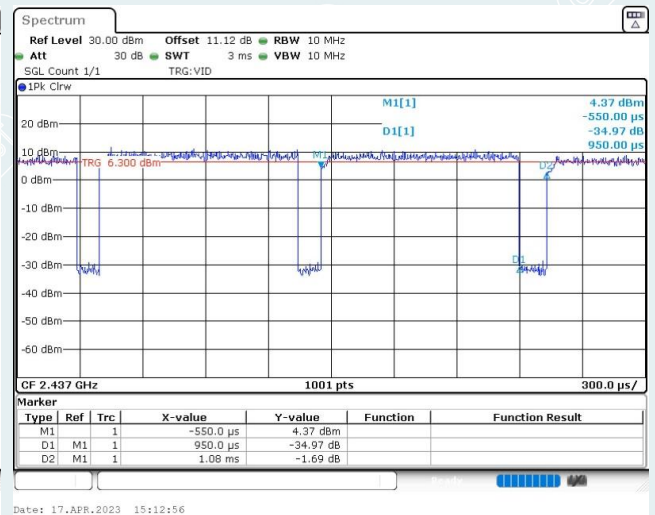
802.11n HT20_Ant2_2437MHz



802.11n HT40_Ant1_2437MHz



802.11n HT40_Ant2_2437MHz



3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

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3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate#:2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
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3.3 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:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	9kHz~30MHz	5.1dB
		30MHz~200MHz	4.5dB
		200MHz~1000MHz	4.4 dB
		1GHz~18GHz	5.6dB
		18GHz~26.5GHz	3.65dB
	Vertical	9kHz~30MHz	5.1dB
		30MHz~200MHz	4.4dB
		200MHz~1000MHz	4.5dB
		1GHz~18GHz	5.6dB
		18GHz~26.5GHz	3.65dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2°C

This uncertainty represents an expanded uncertainty factor of $k=2$.

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4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radiated Spurious Emission&Restricted bands of operation				
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2023-08-06
Preamplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G41	20200928002	2023-08-19
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3402	2023-10-23
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2023-10-15
Test Receiver	R&S	ESR26	101758	2023-10-27
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2024-04-11
Amplifier	Tonscend	TAP184050	AP20E806071	2024-04-16
Amplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/5.0.0		
6 dB Bandwidth				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
Output Power				
Pulse power sensor	Anristu	MA2411B	1126150	2024-02-12
Power meter	Anristu	NL2495A	1204003	2024-02-12
Conducted band edges and Spurious Emission				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17

Note: The calibration interval of the above test instruments is 12 months.

5. RADIATED SPURIOUS EMISSIONS

5.1 LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak($\mu\text{V/m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V/m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30~88	100	3	40
88~216	150	3	43.5
216~960	200	3	46
Above 960	500	3	54

NOTE:

- (1) The emission limits for the ranges 9-90kHz and 110-490kHz are based on measurements employing a linear average detector.
- (2) The lower limit shall apply at the transition frequencies.
- (3) Above 18GHz test distance is 1m, so the PeakLimit=74+20*log(3/1)=83.54 (dB $\mu\text{V/m}$).
The Avg Limit=54+20*log(3/1)=63.54 (dB $\mu\text{V/m}$).

5.2 TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable

position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.

--- The EUT is placed on a desktop position in the center of the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 4 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1GHz to 18GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 ° to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 ° to 360 ° and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.
- The EUT is placed on a desktop position in the center of the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

NOTE:

- (a).The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), RBW=300Hz(for Peak&AVG), the frequency from 150kHz to 30MHz, Set RBW=9kHz, RBW=9kHz,(for QP Detector).
- (b).The frequency from 30MHz to 1GHz, Set RBW=120kHz, RBW=300kHz,(for QP Detector).
- (c).The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.
- (d).The frequency above 1GHz, for Avg detector: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10Hz. if the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.9.

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5.3 TEST SETUP

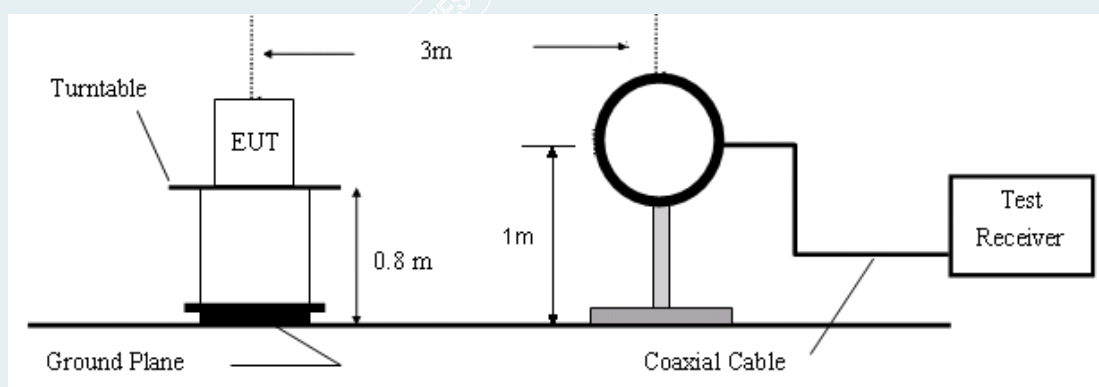


Figure 1. 9kHz to 30MHz radiated emissions test configuration

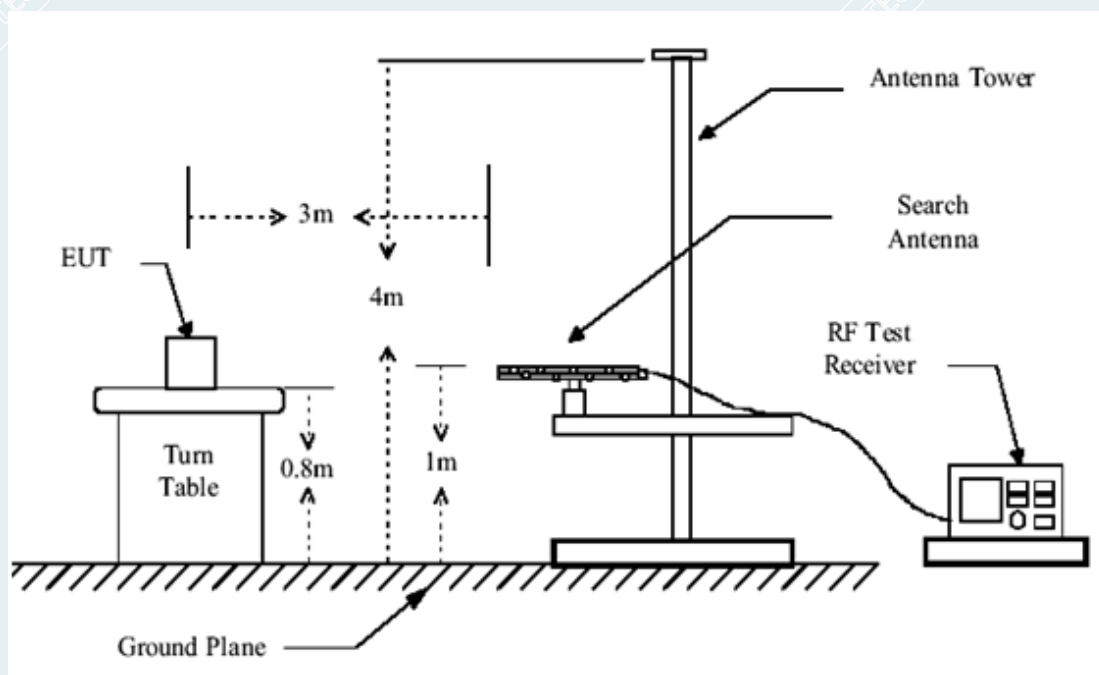


Figure 2. 30MHz to 1GHz radiated emissions test configuration

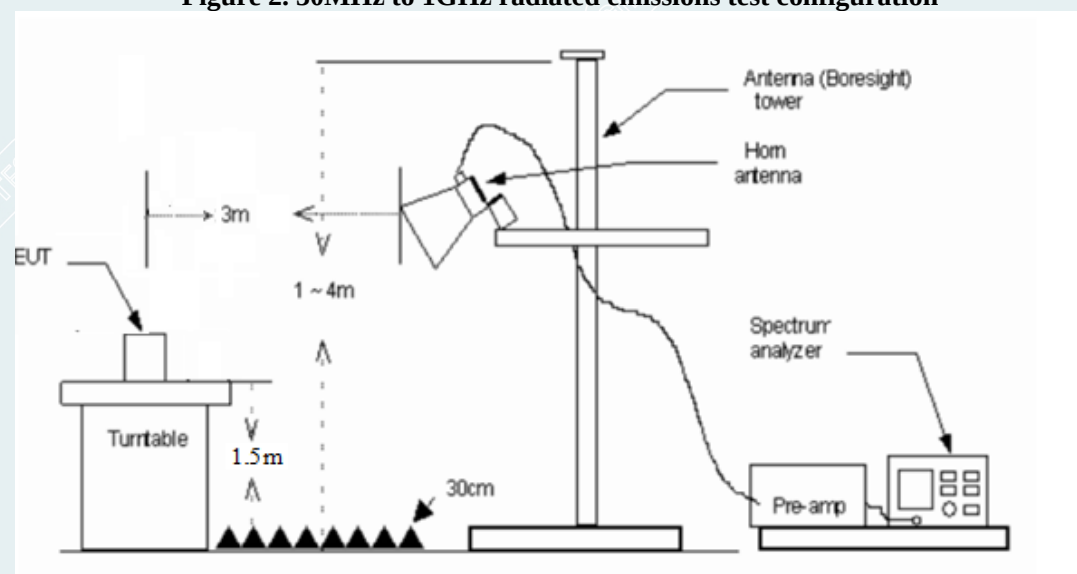


Figure 3. 1GHz to 18GHz radiated emissions test configuration

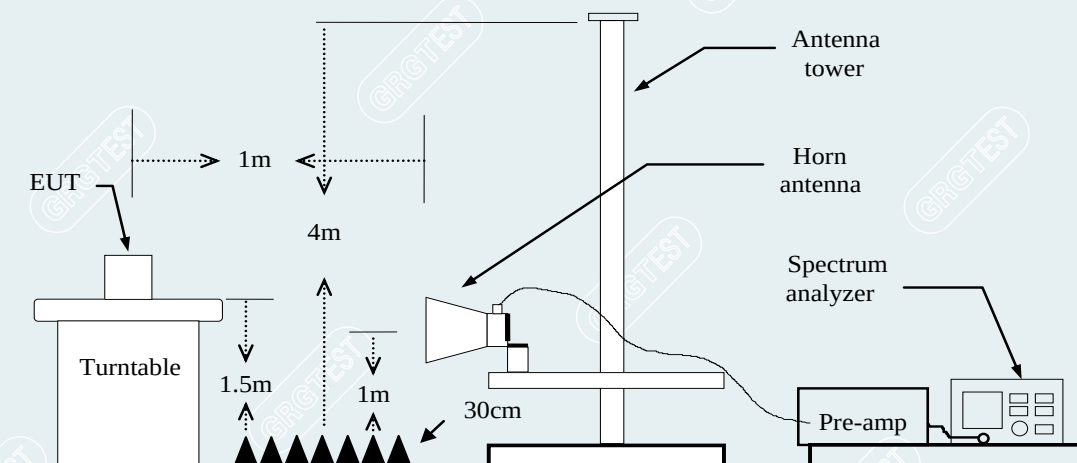


Figure 4.18GHz to 26.5GHz radiated emissions test configuration

5.4 DATA SAMPLE

30MHz to 1GHz

Suspected Data List										
NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	66.85	31.09	-35.76	40.00	8.91	PK	200	351	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dB μ V/m]	Level [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	-31.57	71.28	39.71	46.00	6.29	100	196	Horizontal

Frequency (MHz)	= Emission frequency in MHz
Reading (dB μ V/m)	= Uncorrected Analyzer / Receiver reading
Factor (dB)	= Antenna factor + Cable loss – Amplifier gain
Level (dB μ V/m)	= Reading (dB μ V/m) + Factor (dB)
Limit (dB μ V/m)	= Limit stated in standard
Margin (dB)	= Limit (dB μ V/m) – Level (dB μ V/m)
Polarity	= Antenna polarization
Peak	= Peak Reading
QP	= Quasi-peak Reading

1GHz-18GHz

No.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Above 18GHz

No.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	-12.11	83.54	41.16	100	211	Vertical	Peak
xxx	xxxx	43.99	31.88	-12.11	63.54	31.66	100	211	Vertical	AVG

Frequency (MHz)

= Emission frequency in MHz

Reading (dB μ V/m)

= Uncorrected Analyzer / Receiver reading

Factor (dB)

= Antenna factor + Cable loss – Amplifier gain

Level (dB μ V/m)= Reading (dB μ V/m) + Factor (dB)Limit (dB μ V/m)

= Limit stated in standard

Margin (dB)

= Limit (dB μ V/m) – Level (dB μ V/m)

Polarity

= Antenna polarization

Peak

= Peak Reading

AVG

= Average Reading

----- The following blanks -----

5.5 TEST RESULTS

Below 1GHz

All models were pretested and only the worst modes and channels were recorded in this report.
(Antenna 1 IEEE 802.11n HT40 2452MHz & Antenna 2 IEEE 802.11n HT20 2412MHz)

Antenna 1

Mode: IEEE 802.11n HT40

Highest Frequency (2452MHz)

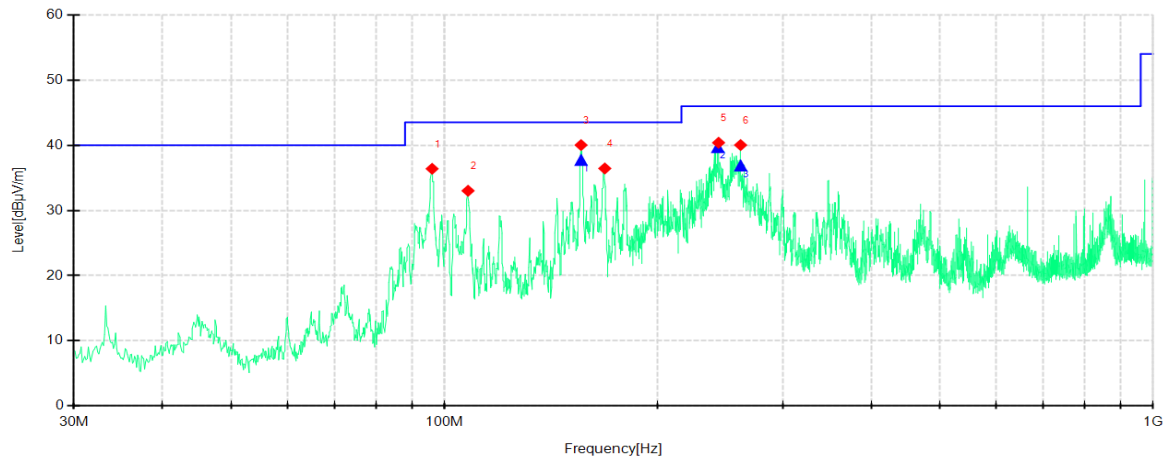
Environment: 21.5°C/65%RH/101.0kPa

Test Engineer: Zhang Zishan

Date: 2023-05-19

Test Voltage: DC 13.5V

Probe : Horizontal



Suspected Data List

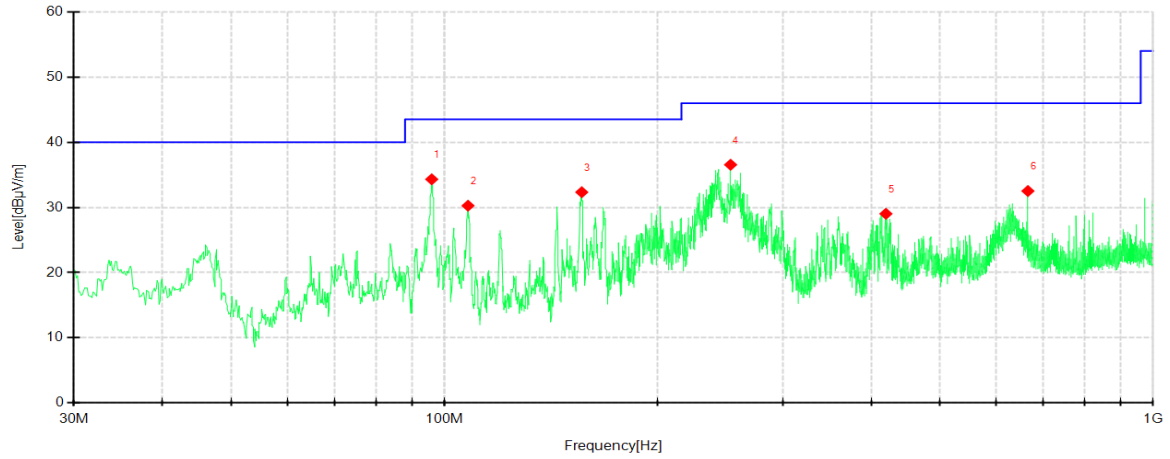
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	96.0895	71.06	36.39	-34.67	43.50	7.11	PK	200	26	Horizontal
2	107.9735	66.17	33.02	-33.15	43.50	10.48	PK	200	206	Horizontal
3	155.8732	70.75	40.03	-30.72	43.50	3.47	PK	200	352	Horizontal
4	168.3635	68.28	36.44	-31.84	43.50	7.06	PK	100	345	Horizontal
5	243.6692	72.67	40.39	-32.28	46.00	5.61	PK	200	322	Horizontal
6	261.7377	71.74	40.03	-31.71	46.00	5.97	PK	100	225	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	155.898	-30.72	68.44	37.72	43.50	5.78	159	336.9	Horizontal
2	243.031	-32.28	71.96	39.68	46.00	6.32	199	280.6	Horizontal
3	261.7831	-31.71	68.57	36.86	46.00	9.14	106	234.2	Horizontal

Mode: IEEE 802.11n HT40
Highest Frequency (2452MHz)
Environment: 21.5°C/65%RH/101.0kPa
Test Engineer: Zhang Zishan

Date: 2023-05-19
Test Voltage: DC 13.5V
Probe : Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	95.9682	69.02	34.32	-34.70	43.50	9.18	PK	100	223	Vertical
2	107.9735	63.42	30.27	-33.15	43.50	13.23	PK	200	297	Vertical
3	156.237	63.07	32.34	-30.73	43.50	11.16	PK	100	242	Vertical
4	253.3704	68.53	36.55	-31.98	46.00	9.45	PK	200	219	Vertical
5	419.625	55.65	29.03	-26.62	46.00	16.97	PK	100	242	Vertical
6	665.672	54.03	32.52	-21.51	46.00	13.48	PK	200	345	Vertical

Antenna 2

Mode: IEEE 802.11n HT20

Lowest Frequency (2412MHz)

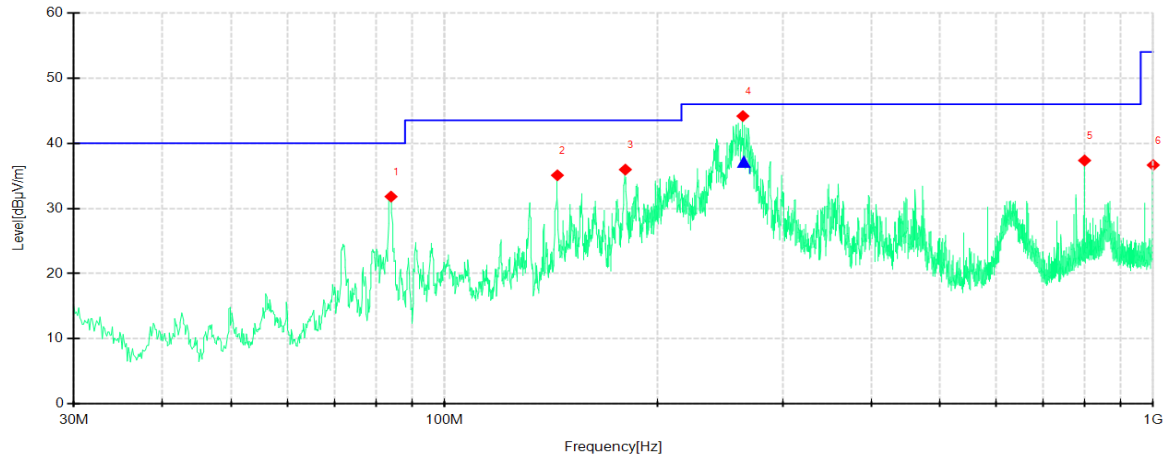
Environment: 21.5°C/65%RH/101.0kPa

Test Engineer: Zhang Zishan

Date: 2023-05-19

Test Voltage: DC 13.5V

Probe : Horizontal



Suspected Data List

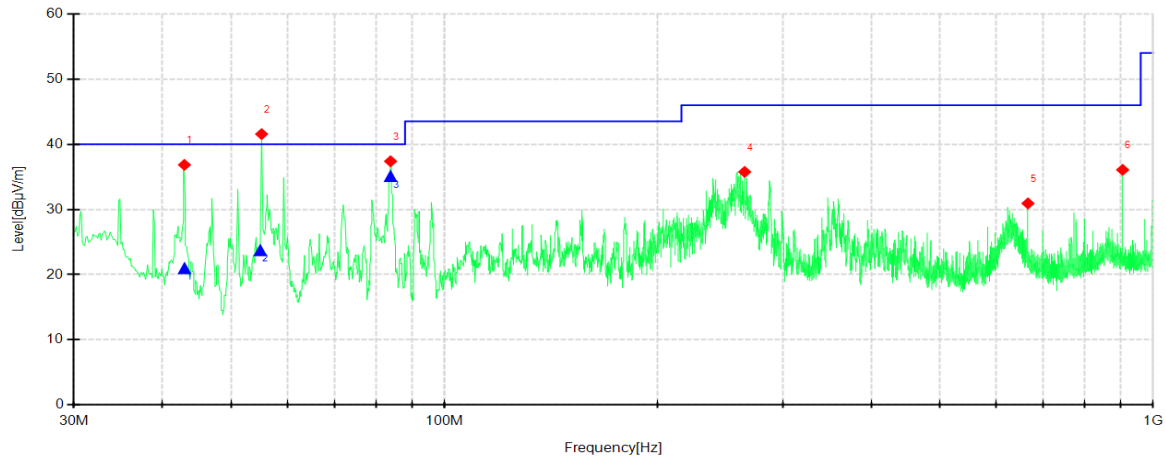
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	84.0843	67.58	31.82	-35.76	40.00	8.18	PK	200	173	Horizontal
2	144.353	65.81	35.09	-30.72	43.50	8.41	PK	200	162	Horizontal
3	180.005	68.35	35.96	-32.39	43.50	7.54	PK	200	162	Horizontal
4	263.678	75.81	44.17	-31.64	46.00	1.83	PK	100	200	Horizontal
5	800.0338	56.65	37.36	-19.29	46.00	8.64	PK	100	127	Horizontal
6	1000	54.41	36.66	-17.75	54.00	17.34	PK	200	302	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	264.4793	-31.64	68.77	37.13	46.00	8.87	106	181.7	Horizontal

Mode: IEEE 802.11n HT20
 Lowest Frequency (2412MHz)
 Environment: 21.5°C/65%RH/101.0kPa
 Test Engineer: Zhang Zishan

Date: 2023-05-19
 Test Voltage: DC 13.5V
 Probe : Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	42.9754	67.54	36.84	-30.70	40.00	3.16	PK	200	256	Vertical
2	55.2232	72.65	41.56	-31.09	40.00	-1.56	PK	200	80	Vertical
3	83.963	73.15	37.39	-35.76	40.00	2.61	PK	100	319	Vertical
4	265.2544	67.33	35.76	-31.57	46.00	10.24	PK	100	46	Vertical
5	665.672	52.44	30.93	-21.51	46.00	15.07	PK	100	105	Vertical
6	905.4132	54.63	36.08	-18.55	46.00	9.92	PK	200	159	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.9953	-30.70	51.67	20.97	40.00	19.03	193	343.8	Vertical
2	54.9763	-31.09	54.82	23.73	40.00	16.27	104	18	Vertical
3	83.929	-35.76	70.84	35.08	40.00	4.92	136	319.4	Vertical

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9 kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

1GHz-18GHz:**Antenna 1**

Mode: IEEE 802.11b

Lowest Frequency (2412MHz)

Environment: 21.8°C/66%RH/101.0kPa

Tested By:Zhang Qiang

Date: 2023-05-12

Voltage:DC 13.5V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1163.2704	69.50	46.80	-22.70	74.00	27.20	200	307	Horizontal
2	1299.53744	69.93	47.35	-22.58	74.00	26.65	200	149	Horizontal
3	1659.3324	67.45	45.83	-21.62	74.00	28.17	100	72	Horizontal
4	2515.1894	63.53	47.97	-15.56	74.00	26.03	100	30	Horizontal
5	9441.4302	46.91	49.20	2.29	74.00	22.80	200	203	Horizontal
6	15050.2563	41.92	53.05	11.13	74.00	17.95	200	312	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9441.4302	2.29	45.32	47.61	54.00	6.39	200	203	Horizontal
2	15050.2563	11.13	35.71	46.84	54.00	7.16	200	312	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1286.2858	66.49	44.89	-21.60	74.00	29.11	200	97	Vertical
2	1662.8329	69.94	47.55	-22.39	74.00	26.45	200	49	Vertical
3	2523.4404	65.94	49.64	-16.30	74.00	24.36	100	106	Vertical
4	2992.49906	62.16	45.99	-16.17	74.00	28.01	100	146	Vertical
5	10549.6937	44.65	50.18	5.53	74.00	20.82	100	210	Vertical
6	14572.0715	41.22	52.06	10.84	74.00	21.94	200	75	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2523.4404	-16.30	60.89	44.59	54.00	9.41	100	106	Vertical
2	10549.6937	5.53	40.68	46.21	54.00	7.79	100	210	Vertical
3	14572.0715	10.84	36.58	47.42	54.00	6.58	200	75	Vertical

Mode: IEEE 802.11b
 Middle Frequency (2437MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1298.7873	69.93	47.35	-22.58	74.00	26.65	100	189	Horizontal
2	1665.5832	68.70	47.09	-21.61	74.00	26.91	100	71	Horizontal
3	2658.4573	62.61	45.15	-17.46	74.00	28.85	100	256	Horizontal
4	6367.921	52.91	46.40	-6.51	74.00	27.60	100	309	Horizontal
5	9799.6	44.77	48.44	3.67	74.00	22.12	200	93	Horizontal
6	15052.1315	44.97	53.13	8.16	74.00	20.87	200	15	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9799.6	3.67	40.36	44.03	54.00	9.97	200	93	Horizontal
2	15052.1315	8.16	34.58	42.74	54.00	11.26	200	15	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1327.5409	64.93	42.85	-22.08	74.00	31.15	200	147	Vertical
2	1665.3332	69.46	47.06	-22.40	74.00	26.94	200	59	Vertical
3	2662.7078	63.85	46.34	-17.51	74.00	27.66	100	334	Vertical
4	7286.7858	52.44	49.42	-3.02	74.00	24.58	100	105	Vertical
5	9683.3354	48.68	51.96	3.28	74.00	22.04	100	17	Vertical
6	14213.9017	44.07	52.60	8.53	74.00	21.40	200	358	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7286.7858	-3.02	50.69	47.67	54.00	6.33	100	105	Vertical
2	9683.3354	3.28	38.69	41.97	54.00	12.03	100	17	Vertical
3	14213.9017	8.53	32.58	41.11	54.00	12.89	200	358	Vertical

Mode: IEEE 802.11b
 Highest Frequency (2462MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1298.2873	68.68	46.07	-22.61	74.00	27.93	200	325	Horizontal
2	1662.5828	68.78	47.10	-21.68	74.00	26.90	100	72	Horizontal
3	2498.1873	60.76	45.54	-15.22	74.00	28.46	100	258	Horizontal
4	6716.7146	53.19	47.18	-6.01	74.00	26.82	100	270	Horizontal
5	9769.5962	48.65	51.12	2.47	74.00	22.88	100	191	Horizontal
6	15605.3257	39.48	50.32	10.84	74.00	19.14	200	153	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9769.5962	2.47	40.25	42.72	54.00	11.28	100	191	Horizontal
2	15605.3257	10.84	35.69	46.53	54.00	7.47	200	153	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	69.02	45.44	-23.58	74.00	28.56	100	31	Vertical
2	1999.37492	61.94	40.88	-21.06	74.00	33.12	100	275	Vertical
3	2654.7068	66.96	49.28	-17.68	74.00	24.72	100	51	Vertical
4	2997.2497	65.90	49.53	-16.37	74.00	24.47	200	287	Vertical
5	7322.4153	52.13	48.64	-3.49	74.00	25.36	200	103	Vertical
6	15024.003	45.31	54.80	9.49	74.00	19.20	100	16	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2654.7068	-17.68	64.25	46.57	54.00	7.43	100	51	Vertical
2	2997.2497	-16.37	62.69	46.32	54.00	7.68	200	287	Vertical
3	7322.4153	-3.49	40.58	37.09	54.00	16.91	200	103	Vertical
4	15024.003	9.49	32.25	41.74	54.00	12.26	100	16	Vertical

Mode: IEEE 802.11g
 Lowest Frequency (2412MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1166.5208	67.52	44.80	-22.72	74.00	29.20	200	227	Horizontal
2	1663.0829	64.78	43.10	-21.68	74.00	30.90	100	178	Horizontal
3	2658.4573	62.94	45.30	-17.64	74.00	28.70	100	109	Horizontal
4	4944.6181	54.80	43.77	-11.03	74.00	30.23	200	300	Horizontal
5	8053.7567	51.12	49.00	-2.12	74.00	25.00	200	26	Horizontal
6	16443.5554	45.85	55.55	9.70	74.00	18.45	200	102	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8053.7567	-2.12	40.98	38.86	54.00	15.14	200	26	Horizontal
2	16443.5554	9.70	31.25	40.95	54.00	13.05	200	102	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.7706	69.98	46.41	-23.57	74.00	27.59	200	161	Vertical
2	1661.5827	68.71	46.25	-22.46	74.00	27.75	100	60	Vertical
3	2663.708	66.10	48.41	-17.69	74.00	25.59	100	50	Vertical
4	2997.2497	67.92	51.55	-16.37	74.00	22.45	100	336	Vertical
5	9152.6441	49.60	50.78	1.18	74.00	23.22	100	230	Vertical
6	14281.4102	44.72	53.29	8.57	74.00	20.71	100	15	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2663.708	-17.69	60.65	42.96	54.00	11.04	100	50	Vertical
2	2997.2497	-16.37	54.89	38.52	54.00	15.48	100	336	Vertical
3	9152.6441	1.18	40.12	41.30	54.00	12.70	100	230	Vertical
4	14281.4102	8.57	38.59	47.16	54.00	6.84	100	15	Vertical

Mode: IEEE 802.11g
 Middle Frequency (2437MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1296.5371	68.66	46.05	-22.61	74.00	27.95	100	192	Horizontal
2	2501.4377	60.94	45.73	-15.21	74.00	28.27	100	260	Horizontal
3	3148.1435	62.85	46.98	-15.87	74.00	27.02	100	91	Horizontal
4	7284.9106	51.62	48.11	-3.51	74.00	25.89	100	344	Horizontal
5	9651.4564	48.18	50.54	2.36	74.00	23.46	100	326	Horizontal
6	13437.5547	44.05	51.96	7.91	74.00	22.04	200	186	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7284.9106	-3.51	50.96	47.45	54.00	6.55	100	344	Horizontal
2	9651.4564	2.36	41.25	43.61	54.00	10.39	100	326	Horizontal
3	13437.5547	7.91	39.58	47.49	54.00	6.51	200	186	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	68.56	44.98	-23.58	74.00	29.02	100	17	Vertical
2	1302.0378	68.79	46.87	-21.92	74.00	27.13	200	113	Vertical
3	1666.5833	70.55	48.07	-22.48	74.00	25.93	100	65	Vertical
4	2500.6876	62.00	46.61	-15.39	74.00	27.39	100	291	Vertical
5	7884.9856	52.48	50.00	-2.48	74.00	24.00	200	10	Vertical
6	13881.9852	45.62	53.43	7.81	74.00	20.57	100	60	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1666.5833	-22.48	68.16	45.68	54.00	8.32	100	65	Vertical
2	7884.9856	-2.48	41.25	38.77	54.00	15.23	200	10	Vertical
3	13881.9852	7.81	39.89	47.70	54.00	6.30	100	60	Vertical

Mode: IEEE 802.11g
 Highest Frequency (2462MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.5377	70.45	47.86	-22.59	74.00	26.14	200	140	Horizontal
2	1666.3333	67.39	45.71	-21.68	74.00	28.29	200	62	Horizontal
3	2497.6872	63.71	48.47	-15.24	74.00	25.53	100	259	Horizontal
4	7238.0298	51.96	48.11	-3.85	74.00	25.89	100	218	Horizontal
5	9960.8701	49.32	50.85	1.53	74.00	23.15	200	74	Horizontal
6	16711.714	44.22	54.28	10.06	74.00	19.72	100	199	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2497.6872	-15.24	60.23	44.99	54.00	9.01	100	259	Horizontal
2	7238.0298	-3.85	50.98	47.13	54.00	6.87	100	218	Horizontal
3	9960.8701	1.53	40.25	41.78	54.00	12.22	200	74	Horizontal
4	16774.5954	10.06	32.18	42.24	54.00	11.76	119	179	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1165.7707	68.26	44.72	-23.54	74.00	29.28	100	25	Vertical
2	1301.2877	66.51	44.59	-21.92	74.00	29.41	200	192	Vertical
3	2500.1875	64.42	49.05	-15.37	74.00	24.95	200	279	Vertical
4	3988.2485	59.13	43.95	-15.18	74.00	30.05	200	121	Vertical
5	8627.5784	49.63	49.27	-0.36	74.00	24.73	200	258	Vertical
6	15059.6325	44.95	53.45	8.50	74.00	20.55	100	53	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2500.1875	-15.37	62.35	46.98	54.00	7.02	200	279	Vertical
2	8627.5784	-0.36	40.25	39.89	54.00	14.11	200	258	Vertical
3	15059.6325	8.50	38.56	47.06	54.00	6.94	100	53	Vertical

Mode: IEEE 802.11n HT20
 Lowest Frequency (2412MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-13
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.5377	71.94	49.35	-22.59	74.00	24.65	100	181	Horizontal
2	1662.3328	66.48	44.79	-21.69	74.00	29.21	100	15	Horizontal
3	2499.6875	63.37	48.19	-15.18	74.00	25.81	100	260	Horizontal
4	6967.996	53.06	47.55	-5.51	74.00	26.45	100	100	Horizontal
5	10474.6843	48.17	50.83	2.66	74.00	23.17	200	44	Horizontal
6	16449.1811	44.27	54.03	9.76	74.00	19.97	100	266	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2499.6875	-15.18	60.59	45.41	54.00	8.59	100	260	Horizontal
2	10474.6843	2.66	40.98	43.64	54.00	10.36	200	44	Horizontal
3	16449.1811	9.76	37.96	47.72	54.00	6.28	100	266	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1163.7705	68.59	45.00	-23.59	74.00	29.00	200	124	Vertical
2	1662.8329	68.86	46.40	-22.46	74.00	27.60	100	64	Vertical
3	2499.4374	65.58	50.21	-15.37	74.00	23.79	200	289	Vertical
4	6504.8131	54.70	47.98	-6.72	74.00	26.02	200	346	Vertical
5	10497.1871	48.51	51.57	3.06	74.00	22.43	100	82	Vertical
6	14354.5443	44.46	53.04	8.58	74.00	20.96	100	218	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2499.4374	-15.37	60.98	45.61	54.00	8.39	200	289	Vertical
2	10497.1871	3.06	41.25	44.31	54.00	9.69	100	82	Vertical
3	14354.5443	8.58	38.96	47.54	54.00	6.46	100	218	Vertical

Mode: IEEE 802.11n HT20
 Middle Frequency (2437 MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-13
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1299.5374	69.95	47.34	-22.61	74.00	26.66	200	142	Horizontal
2	1661.3327	65.34	43.65	-21.69	74.00	30.35	100	152	Horizontal
3	2523.4404	65.16	49.12	-16.04	74.00	24.88	100	25	Horizontal
4	7281.1601	52.10	48.55	-3.55	74.00	25.45	200	344	Horizontal
5	9692.7116	48.42	50.33	1.91	74.00	23.67	200	159	Horizontal
6	16715.4644	45.18	55.18	10.00	74.00	18.82	200	141	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2523.4404	-16.04	60.59	44.55	54.00	9.45	100	25	Horizontal
2	7281.1601	-3.55	50.21	46.66	54.00	7.34	200	344	Horizontal
3	9692.7116	1.91	44.39	46.30	54.00	7.70	200	159	Horizontal
4	16766.2671	10.00	32.22	42.22	54.00	11.78	186	185.7	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.5203	68.22	44.61	-23.61	74.00	29.39	200	85	Vertical
2	1661.0826	67.70	45.25	-22.45	74.00	28.75	100	63	Vertical
3	2660.9576	62.86	45.17	-17.69	74.00	28.83	100	74	Vertical
4	4933.3667	54.62	43.29	-11.33	74.00	30.71	200	102	Vertical
5	7196.7746	51.85	48.08	-3.77	74.00	25.92	100	307	Vertical
6	14266.4083	44.39	53.07	8.68	74.00	20.93	100	317	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7196.7746	-3.77	48.96	45.19	54.00	8.81	100	307	Vertical
2	14266.4083	8.68	38.99	47.67	54.00	6.33	100	317	Vertical

Mode: IEEE 802.11n HT20
Highest Frequency (2462MHz)
Environment: 21.8°C/66%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-13
Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1297.2872	69.41	46.79	-22.62	74.00	27.21	200	192	Horizontal
2	1666.3333	65.90	44.22	-21.68	74.00	29.78	200	57	Horizontal
3	2508.6886	60.83	45.34	-15.49	74.00	28.66	100	266	Horizontal
4	7311.1639	52.16	48.69	-3.47	74.00	25.31	100	56	Horizontal
5	8768.221	49.50	49.35	-0.15	74.00	24.65	100	224	Horizontal
6	16700.4626	44.27	54.53	10.26	74.00	19.47	100	360	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7311.1639	-3.47	48.96	45.49	54.00	8.51	100	56	Horizontal
2	8768.221	-0.15	42.58	42.43	54.00	11.57	100	224	Horizontal
3	16700.4626	10.26	34.58	44.84	54.00	9.16	100	360	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	68.11	44.53	-23.58	74.00	29.47	100	22	Vertical
2	1661.5827	70.10	47.64	-22.46	74.00	26.36	200	52	Vertical
3	2502.4378	62.21	46.73	-15.48	74.00	27.27	100	286	Vertical
4	3993.8742	59.45	44.20	-15.25	74.00	29.80	100	218	Vertical
5	8061.2577	51.39	49.25	-2.14	74.00	24.75	200	114	Vertical
6	14332.0415	45.38	53.95	8.57	74.00	20.05	200	165	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8061.2577	-2.14	48.96	46.82	54.00	7.18	200	114	Vertical
2	14332.0415	8.57	39.15	47.72	54.00	6.28	200	165	Vertical

Mode: IEEE 802.11n HT40
Lowest Frequency (2422MHz)
Environment: 21.8°C/66%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-14
Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1298.78734	69.43	46.85	-22.58	74.00	27.15	100	189	Horizontal
2	1665.58319	68.20	46.59	-21.61	74.00	27.41	100	71	Horizontal
3	2658.45730	62.11	44.65	-17.46	74.00	29.35	100	256	Horizontal
4	5044.00550	53.96	43.60	-10.36	74.00	30.40	200	43	Horizontal
5	5850.35629	53.65	45.69	-7.96	74.00	28.31	100	328	Horizontal
6	15052.1315	44.47	52.63	8.16	74.00	20.87	200	15	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	15052.1315	8.16	34.52	42.68	54.00	11.32	200	15	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1286.28578	66.49	44.89	-21.60	74.00	29.11	200	97	Vertical
2	1662.83285	69.94	47.55	-22.39	74.00	26.45	200	49	Vertical
3	1997.12464	66.80	45.86	-20.94	74.00	28.14	100	47	Vertical
4	2523.44043	65.94	49.64	-16.30	74.00	24.36	100	106	Vertical
5	2996.99962	65.36	49.21	-16.15	74.00	24.79	100	146	Vertical
6	14572.0715	41.22	52.06	10.84	74.00	21.94	200	75	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2523.44043	-16.30	55.24	38.94	54.00	15.06	100	106	Vertical
2	2996.999625	-16.15	50.24	34.09	54.00	19.91	100	146	Vertical
3	14572.071509	10.84	34.52	45.36	54.00	8.64	200	75	Vertical

Mode: IEEE 802.11n HT40
 Middle Frequency (2437 MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-14
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.52031	66.77	44.05	-22.72	74.00	29.95	100	62	Horizontal
2	1298.28728	68.18	45.57	-22.61	74.00	28.43	200	325	Horizontal
3	1662.58282	68.28	46.60	-21.68	74.00	27.40	100	72	Horizontal
4	2498.18727	60.26	45.04	-15.22	74.00	28.96	100	258	Horizontal
5	2660.95762	62.06	44.41	-17.65	74.00	29.59	100	62	Horizontal
6	9769.5962	48.15	50.62	2.47	74.00	23.38	100	191	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9769.5962	2.47	34.25	36.72	54.00	17.28	100	191	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1165.77072	66.09	42.57	-23.52	74.00	31.43	200	127	Vertical
2	1665.33316	69.46	47.06	-22.40	74.00	26.94	200	59	Vertical
3	2501.43768	60.86	45.60	-15.26	74.00	28.40	100	304	Vertical
4	2662.70783	63.85	46.34	-17.51	74.00	27.66	100	334	Vertical
5	5400.30003	54.14	43.73	-10.41	74.00	30.27	100	341	Vertical
6	14213.9017	44.07	52.60	8.53	74.00	21.40	200	358	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	14213.901738	8.53	35.24	43.77	54.00	10.23	200	358	Vertical

Mode: IEEE 802.11n HT40
Highest Frequency (2452MHz)
Environment: 21.8°C/66%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-14
Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1163.27040	69.00	46.30	-22.70	74.00	27.70	200	307	Horizontal
2	1299.53744	70.43	47.85	-22.58	74.00	26.15	200	149	Horizontal
3	1659.33241	66.95	45.33	-21.62	74.00	28.67	100	72	Horizontal
4	2515.18939	63.03	47.47	-15.56	74.00	26.53	100	30	Horizontal
5	5308.41355	54.61	44.08	-10.53	74.00	29.92	100	191	Horizontal
6	15050.2562	41.42	52.55	11.13	74.00	21.45	200	312	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	15050.256282	11.13	34.52	45.65	54.00	8.35	200	312	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.77059	68.92	45.35	-23.57	74.00	28.65	100	20	Vertical
2	1664.33304	70.30	47.83	-22.47	74.00	26.17	200	62	Vertical
3	2498.93736	61.75	46.37	-15.38	74.00	27.63	100	246	Vertical
4	3997.62470	58.50	43.20	-15.30	74.00	30.80	100	212	Vertical
5	4923.99049	57.35	46.10	-11.25	74.00	27.90	100	262	Vertical
6	14283.2854	45.24	53.79	8.55	74.00	20.21	200	153	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	14283.285411	8.55	33.24	41.79	54.00	12.21	200	153	Vertical

Antenna 2

Mode: IEEE 802.11b

Lowest Frequency (2412MHz)

Environment: 21.8°C/66%RH/101.0kPa

Tested By:Zhang Qiang

Date: 2023-05-12

Voltage:DC 13.5V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1165.5207	68.66	45.94	-22.72	74.00	28.06	200	42	Horizontal
2	1662.8329	66.56	44.88	-21.68	74.00	29.12	100	59	Horizontal
3	2370.1713	61.38	43.28	-18.10	74.00	30.72	100	334	Horizontal
4	2662.9579	60.74	43.07	-17.67	74.00	30.93	100	0	Horizontal
5	9231.4039	50.16	51.30	1.14	74.00	22.70	200	303	Horizontal
6	16349.7937	45.39	54.00	8.61	74.00	20.00	200	116	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9231.4039	1.14	39.68	40.82	54.00	13.18	200	303	Horizontal
2	16349.7937	8.61	34.58	43.19	54.00	10.81	200	116	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.5203	69.12	45.51	-23.61	74.00	28.49	100	72	Vertical
2	1660.3325	71.06	48.61	-22.45	74.00	25.39	200	57	Vertical
3	2364.1705	63.06	45.10	-17.96	74.00	28.90	100	287	Vertical
4	3984.4981	61.47	46.34	-15.13	74.00	27.66	100	44	Vertical
5	4822.7278	59.42	46.93	-12.49	74.00	27.07	100	289	Vertical
6	9694.5868	48.64	50.90	2.26	74.00	23.10	100	26	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.3325	-22.45	60.98	38.53	54.00	15.47	200	57	Vertical
2	9694.5868	2.26	44.58	46.84	54.00	7.16	100	26	Vertical

Mode: IEEE 802.11b
 Middle Frequency (2437MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1290.7863	67.31	44.68	-22.63	74.00	29.32	100	237	Horizontal
2	1666.5833	64.22	42.54	-21.68	74.00	31.46	100	118	Horizontal
3	2657.9572	63.53	45.90	-17.63	74.00	28.10	100	109	Horizontal
4	5735.967	54.06	44.90	-9.16	74.00	29.10	200	54	Horizontal
5	9411.4264	49.28	50.63	1.35	74.00	23.37	100	360	Horizontal
6	16730.4663	41.22	50.95	9.73	74.00	20.18	200	253	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9411.4264	1.35	42.58	43.93	54.00	10.07	100	360	Horizontal
2	16730.4663	9.73	31.58	41.31	54.00	12.69	200	253	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.5377	66.71	44.79	-21.92	74.00	29.21	200	108	Vertical
2	2000.125	65.87	44.81	-21.06	74.00	29.19	100	51	Vertical
3	2656.9571	63.90	46.21	-17.69	74.00	27.79	100	51	Vertical
4	4873.3592	57.60	45.76	-11.84	74.00	28.24	100	260	Vertical
5	10480.31	47.44	50.57	3.13	74.00	23.43	100	277	Vertical
6	15061.5077	45.32	53.87	8.55	74.00	20.13	100	24	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10480.31	3.13	40.58	43.71	54.00	10.29	100	277	Vertical
2	15061.5077	8.55	34.69	43.24	54.00	10.76	100	24	Vertical

Mode: IEEE 802.11b
 Highest Frequency (2462MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-12
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1296.5371	68.65	46.04	-22.61	74.00	27.96	100	148	Horizontal
2	1665.0831	67.48	45.80	-21.68	74.00	28.20	100	71	Horizontal
3	2501.9377	61.28	46.05	-15.23	74.00	27.95	100	344	Horizontal
4	4923.9905	55.11	44.32	-10.79	74.00	29.68	100	222	Horizontal
5	9855.857	48.11	50.67	2.56	74.00	23.33	100	280	Horizontal
6	13289.4112	45.80	53.21	7.41	74.00	20.79	200	46	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9855.857	2.56	40.69	43.25	54.00	10.75	100	280	Horizontal
2	13289.4112	7.41	39.58	46.99	54.00	7.01	200	46	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.7706	69.42	45.85	-23.57	74.00	28.15	100	20	Vertical
2	1664.333	70.80	48.33	-22.47	74.00	25.67	200	62	Vertical
3	2498.9374	62.25	46.87	-15.38	74.00	27.13	100	246	Vertical
4	4923.9905	57.85	46.60	-11.25	74.00	27.40	100	262	Vertical
5	9267.0334	51.87	52.50	0.63	74.00	21.50	100	16	Vertical
6	14283.2854	45.74	54.29	8.55	74.00	19.71	200	153	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.333	-22.47	68.95	46.48	54.00	7.52	200	62	Vertical
2	9267.0334	0.63	41.58	42.21	54.00	11.79	100	16	Vertical
3	14283.2854	8.55	38.58	47.13	54.00	6.87	200	153	Vertical

Mode: IEEE 802.11g
 Lowest Frequency (2412MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-13
 Voltage:DC 13.5V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.2877	69.33	46.74	-22.59	74.00	27.26	100	26	Horizontal
2	1988.6236	65.45	45.52	-19.93	74.00	28.48	200	360	Horizontal
3	2373.9217	64.94	46.88	-18.06	74.00	27.12	100	338	Horizontal
4	4822.7278	56.46	44.11	-12.35	74.00	29.89	100	228	Horizontal
5	9698.3373	50.02	51.87	1.85	74.00	22.13	200	62	Horizontal
6	14242.0303	44.46	52.67	8.21	74.00	21.33	200	208	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9698.3373	1.85	40.25	42.10	54.00	11.90	200	62	Horizontal
2	14242.0303	8.21	39.58	47.79	54.00	6.21	200	208	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1329.0411	67.47	45.34	-22.13	74.00	28.66	200	16	Vertical
2	1664.083	70.33	47.86	-22.47	74.00	26.14	200	65	Vertical
3	2374.9219	66.40	48.66	-17.74	74.00	25.34	100	278	Vertical
4	4822.7278	60.50	48.01	-12.49	74.00	25.99	100	266	Vertical
5	7989.9988	51.76	50.28	-1.48	74.00	23.72	100	237	Vertical
6	13846.3558	45.02	52.91	7.89	74.00	21.09	200	335	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.9219	-17.74	60.58	42.84	54.00	11.16	100	278	Vertical
2	4822.7278	-12.49	58.58	46.09	54.00	7.91	100	266	Vertical
3	7989.9988	-1.48	41.28	39.80	54.00	14.20	100	237	Vertical
4	13846.3558	7.89	39.25	47.14	54.00	6.86	200	335	Vertical

Mode: IEEE 802.11g
 Middle Frequency (2437MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-13
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1312.039	67.61	45.20	-22.41	74.00	28.80	100	191	Horizontal
2	1662.3328	66.92	45.23	-21.69	74.00	28.77	200	65	Horizontal
3	2521.1901	65.06	49.11	-15.95	74.00	24.89	200	25	Horizontal
4	7892.4866	50.92	48.50	-2.42	74.00	25.50	100	147	Horizontal
5	11056.007	47.54	50.62	3.08	74.00	23.38	200	2	Horizontal
6	13850.1063	45.29	52.97	7.68	74.00	21.03	100	343	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2521.1901	-15.95	63.21	47.26	54.00	6.74	200	25	Horizontal
2	7892.4866	-2.42	50.21	47.79	54.00	6.21	100	147	Horizontal
3	11056.007	3.08	40.59	43.67	54.00	10.33	200	2	Horizontal
4	13850.1063	7.68	39.58	47.26	54.00	6.74	100	343	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1165.0206	71.04	47.48	-23.56	74.00	26.52	200	16	Vertical
2	1301.7877	69.54	47.62	-21.92	74.00	26.38	200	113	Vertical
3	2844.2305	67.02	50.68	-16.34	74.00	23.32	100	46	Vertical
4	3326.2908	64.13	48.09	-16.04	74.00	25.91	100	70	Vertical
5	4873.3592	59.62	47.78	-11.84	74.00	26.22	100	226	Vertical
6	15067.1334	44.74	53.42	8.68	74.00	20.58	100	206	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2833.3223	-16.34	45.24	28.90	54.00	25.10	100	56.2	Vertical
2	3326.2908	-16.04	62.97	46.93	54.00	7.07	100	70	Vertical
3	15067.1334	8.68	38.25	46.93	54.00	7.07	100	206	Vertical

Mode: IEEE 802.11g
 Highest Frequency (2462MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-13
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1163.7705	69.02	46.30	-22.72	74.00	27.70	100	328	Horizontal
2	1289.7862	68.14	45.52	-22.62	74.00	28.48	100	239	Horizontal
3	2000.6251	62.95	43.21	-19.74	74.00	30.79	200	16	Horizontal
4	2496.6871	62.20	46.92	-15.28	74.00	27.08	200	260	Horizontal
5	6832.9791	53.17	47.21	-5.96	74.00	26.79	200	305	Horizontal
6	16707.9635	44.03	54.16	10.13	74.00	19.84	200	265	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	16707.9635	10.13	35.15	45.28	54.00	8.72	200	265	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1161.7702	70.08	46.45	-23.63	74.00	27.55	200	35	Vertical
2	1658.8324	70.75	48.30	-22.45	74.00	25.70	200	64	Vertical
3	2498.9374	63.24	47.86	-15.38	74.00	26.14	100	250	Vertical
4	4923.9905	59.29	48.04	-11.25	74.00	25.96	100	256	Vertical
5	9225.7782	48.87	50.05	1.18	74.00	23.95	200	343	Vertical
6	15027.7535	44.73	52.73	8.00	74.00	21.27	100	62	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1658.8324	-22.45	69.86	47.41	54.00	6.59	200	64	Vertical
2	4923.9905	-11.25	58.65	47.40	54.00	6.60	100	256	Vertical
3	9225.7782	1.18	39.68	40.86	54.00	13.14	200	343	Vertical
4	15027.7535	8.00	38.75	46.75	54.00	7.25	100	62	Vertical

Mode: IEEE 802.11n HT20
Lowest Frequency (2412MHz)
Environment: 21.8°C/66%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-13
Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.53769	69.94	47.35	-22.59	74.00	26.65	100	181	Horizontal
2	1662.3328	66.48	44.79	-21.69	74.00	29.21	100	15	Horizontal
3	2499.68746	62.87	47.69	-15.18	74.00	26.31	100	260	Horizontal
4	2665.20815	64.05	46.35	-17.70	74.00	27.65	100	103	Horizontal
5	4938.99237	54.77	43.81	-10.96	74.00	30.19	200	102	Horizontal
6	16449.1811	44.27	54.03	9.76	74.00	19.97	100	266	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	16449.1811	9.76	34.24	44.00	54.00	10.00	100	266	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1163.7705	68.59	45.00	-23.59	74.00	29.00	200	124	Vertical
2	1662.8329	68.86	46.40	-22.46	74.00	27.60	100	64	Vertical
3	2499.4374	65.58	50.21	-15.37	74.00	23.79	200	289	Vertical
4	4665.20815	56.08	42.80	-13.28	74.00	31.20	100	112	Vertical
5	6504.8131	54.70	47.98	-6.72	74.00	26.02	200	346	Vertical
6	14354.5443	44.46	53.04	8.58	74.00	20.96	100	218	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2499.4374	-15.37	55.25	39.88	54.00	14.12	200	289	Vertical
2	14354.5443	8.58	35.24	43.82	54.00	10.18	100	218	Vertical

Mode: IEEE 802.11n HT20
Middle Frequency (2437 MHz)
Environment: 21.8°C/66%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-13
Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1297.2872	69.41	46.79	-22.62	74.00	27.21	200	192	Horizontal
2	1666.3333	65.90	44.22	-21.68	74.00	29.78	200	57	Horizontal
3	2508.6886	60.83	45.34	-15.49	74.00	28.66	100	266	Horizontal
4	4464.55807	55.25	41.89	-13.36	74.00	32.11	200	102	Horizontal
5	6116.63958	53.17	44.89	-8.28	74.00	29.11	100	26	Horizontal
6	16700.4626	44.27	54.53	10.26	74.00	19.47	100	360	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	16700.4626	10.26	34.57	44.83	54.00	9.17	100	360	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.2705	68.11	44.53	-23.58	74.00	29.47	100	22	Vertical
2	1661.5827	70.10	47.64	-22.46	74.00	26.36	200	52	Vertical
3	2502.4378	62.21	46.73	-15.48	74.00	27.27	100	286	Vertical
4	3993.8742	59.45	44.20	-15.25	74.00	29.80	100	218	Vertical
5	6129.76622	54.14	45.41	-8.73	74.00	28.59	100	37	Vertical
6	14332.0415	45.38	53.95	8.57	74.00	20.05	200	165	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	14332.0415	8.57	36.52	45.09	54.00	8.91	200	165	Vertical

Mode: IEEE 802.11n HT20
 Highest Frequency (2462MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-13
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1299.5374	69.95	47.34	-22.61	74.00	26.66	200	142	Horizontal
2	1661.3327	65.34	43.65	-21.69	74.00	30.35	100	152	Horizontal
3	2523.44043	65.16	49.12	-16.04	74.00	24.88	100	25	Horizontal
4	2656.95712	62.31	44.68	-17.63	74.00	29.32	100	64	Horizontal
5	4935.24190	54.43	43.51	-10.92	74.00	30.49	100	346	Horizontal
6	16715.4644	45.18	55.18	10.00	74.00	18.82	200	141	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2523.44043	-16.04	56.35	40.31	54.00	13.69	100	25	Horizontal
2	16766.2671	10.00	32.22	42.22	54.00	11.78	186	185.7	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.5203	68.22	44.61	-23.61	74.00	29.39	200	85	Vertical
2	1661.0826	67.70	45.25	-22.45	74.00	28.75	100	63	Vertical
3	2660.9576	62.86	45.17	-17.69	74.00	28.83	100	74	Vertical
4	3328.16602	57.93	41.91	-16.02	74.00	32.09	100	345	Vertical
5	4933.3667	54.62	43.29	-11.33	74.00	30.71	200	102	Vertical
6	14266.4083	44.39	53.07	8.68	74.00	20.93	100	317	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	14266.4083	8.68	35.68	44.36	54.00	9.64	100	317	Vertical

Mode: IEEE 802.11n HT40
Lowest Frequency (2422MHz)
Environment: 21.8°C/66%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-14
Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1161.27015	66.18	43.47	-22.71	74.00	30.53	200	208	Horizontal
2	1290.78634	66.31	43.68	-22.63	74.00	30.32	100	237	Horizontal
3	1666.58332	63.22	41.54	-21.68	74.00	32.46	100	118	Horizontal
4	2657.95724	62.53	44.90	-17.63	74.00	29.10	100	109	Horizontal
5	5735.96699	53.06	43.90	-9.16	74.00	30.10	200	54	Horizontal
6	13274.4093	43.16	50.67	7.51	74.00	23.33	100	112	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13274.409301	7.51	35.75	43.26	54.00	10.74	100	112	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.52031	68.12	44.51	-23.61	74.00	29.49	100	72	Vertical
2	1329.54119	67.04	44.90	-22.14	74.00	29.10	200	335	Vertical
3	1660.33254	70.06	47.61	-22.45	74.00	26.39	200	57	Vertical
4	2364.17052	62.06	44.10	-17.96	74.00	29.90	100	287	Vertical
5	3984.49806	60.47	45.34	-15.13	74.00	28.66	100	44	Vertical
6	14513.9392	43.99	52.20	8.21	74.00	21.80	100	16	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	14513.939242	8.21	35.22	43.43	54.00	10.57	100	16	Vertical

Mode: IEEE 802.11n HT40
 Middle Frequency (2437 MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-14
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1296.53706	67.65	45.04	-22.61	74.00	28.96	100	148	Horizontal
2	1665.08313	66.48	44.80	-21.68	74.00	29.20	100	71	Horizontal
3	2501.93774	60.28	45.05	-15.23	74.00	28.95	100	344	Horizontal
4	4923.99049	54.11	43.32	-10.79	74.00	30.68	100	222	Horizontal
5	9855.85698	47.11	49.67	2.56	74.00	24.33	100	280	Horizontal
6	17883.7354	44.39	51.80	7.41	74.00	22.20	200	233	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9855.856982	2.56	36.24	38.80	54.00	15.20	100	280	Horizontal
2	17883.735467	7.41	34.58	41.99	54.00	12.01	200	233	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.53769	65.71	43.79	-21.92	74.00	30.21	200	108	Vertical
2	1664.33304	65.53	43.06	-22.47	74.00	30.94	100	344	Vertical
3	2656.95712	62.90	45.21	-17.69	74.00	28.79	100	51	Vertical
4	3316.91461	58.11	41.92	-16.19	74.00	32.08	100	104	Vertical
5	4873.35917	56.60	44.76	-11.84	74.00	29.24	100	260	Vertical
6	15061.5076	44.32	52.87	8.55	74.00	21.13	100	24	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	15061.507688	8.55	35.64	44.19	54.00	9.81	100	24	Vertical

Mode: IEEE 802.11n HT40
 Highest Frequency (2452MHz)
 Environment: 21.8°C/66%RH/101.0kPa
 Tested By:Zhang Qiang

Date: 2023-05-14
 Voltage:DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1165.52069	67.66	44.94	-22.72	74.00	29.06	200	42	Horizontal
2	1300.78759	66.41	43.82	-22.59	74.00	30.18	100	99	Horizontal
3	1662.83285	65.56	43.88	-21.68	74.00	30.12	100	59	Horizontal
4	2370.17127	60.38	42.28	-18.10	74.00	31.72	100	334	Horizontal
5	2662.95787	59.74	42.07	-17.67	74.00	31.93	100	0	Horizontal
6	16349.7937	44.39	53.00	8.61	74.00	21.00	200	116	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	16349.793724	8.61	33.28	41.89	54.00	12.11	200	116	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.27053	68.02	44.44	-23.58	74.00	29.56	100	31	Vertical
2	1664.08301	69.33	46.86	-22.47	74.00	27.14	200	43	Vertical
3	2499.68746	62.44	47.07	-15.37	74.00	26.93	100	294	Vertical
4	2654.70683	64.96	47.28	-17.68	74.00	26.72	100	51	Vertical
5	2997.24965	63.90	47.53	-16.37	74.00	26.47	200	287	Vertical
6	15024.003	44.31	53.80	9.49	74.00	20.20	100	16	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	15024.003	9.49	35.27	44.76	54.00	9.24	100	16	Vertical

18GHz-26.5GHz:

Pre-scan all modes and recorded the worst case results in this report.
(Antenna 1 IEEE 802.11n HT40 & Antenna 2 IEEE 802.11n HT20)

The peak test results is less than the average limits, so the average test results had not reported.

Antenna 1

Mode: IEEE 802.11n HT40

Lowest Frequency (2422MHz)

Environment:21.6°C/64%RH/101.0kPa

Tested By:Zhang Zishan

Date: 2023-05-18

Voltage:DC 13.5V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18256.7	54.78	36.72	-18.06	83.54	46.82	100	233	Horizontal
2	18561.425	54.93	37.45	-17.48	83.54	46.09	100	233	Horizontal
3	19292	53.45	36.55	-16.90	83.54	46.99	100	30	Horizontal
4	21014.95	52.40	36.36	-16.04	83.54	47.18	100	139	Horizontal
5	22732.375	50.98	36.18	-14.80	83.54	47.36	100	298	Horizontal
6	25149.35	48.84	34.91	-13.93	83.54	48.63	100	267	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18746.725	53.39	36.20	-17.19	83.54	47.34	100	264	Vertical
2	19310.7	54.13	36.88	-17.25	83.54	46.66	100	233	Vertical
3	19904	54.22	37.39	-16.83	83.54	46.15	100	295	Vertical
4	21241.475	52.59	36.54	-16.05	83.54	47.00	100	47	Vertical
5	23070.25	50.78	36.03	-14.75	83.54	47.51	100	109	Vertical
6	24298.075	50.09	35.82	-14.27	83.54	47.72	100	31	Vertical

Note:

Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).

----- The following blanks -----

Mode: IEEE 802.11n HT40
 Middle Frequency (2437MHz)
 Environment: 21.6°C / 64%RH / 101.0kPa
 Tested By: Zhang Zishan

Date: 2023-05-18
 Voltage: DC 13.5V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18847.45	54.03	36.89	-17.14	83.54	46.65	100	0	Horizontal
2	20824.975	53.18	36.95	-16.23	83.54	46.59	100	157	Horizontal
3	21530.05	52.24	36.39	-15.85	83.54	47.15	100	142	Horizontal
4	23247.05	51.05	36.27	-14.78	83.54	47.27	100	298	Horizontal
5	25128.1	49.24	35.18	-14.06	83.54	48.36	100	235	Horizontal
6	26109.85	48.92	34.53	-14.39	83.54	49.01	100	298	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18843.625	54.04	36.87	-17.17	83.54	46.67	100	269	Vertical
2	19583.55	53.62	36.80	-16.82	83.54	46.74	100	94	Vertical
3	21090.175	52.44	36.46	-15.98	83.54	47.08	100	315	Vertical
4	22800.375	50.50	35.73	-14.77	83.54	47.81	100	47	Vertical
5	23400.9	50.14	35.25	-14.89	83.54	48.29	100	330	Vertical
6	24583.675	49.21	35.06	-14.15	83.54	48.48	100	360	Vertical

Note:

Above 18G test distance is 1m, so the Peak Limit = $74 + 20 \times \log(3/1) = 83.54$ (dBμV/m).

----- The following blanks -----

Mode: IEEE 802.11n HT40
 Highest Frequency (2452MHz)
 Environment: 21.6°C / 64%RH / 101.0kPa
 Tested By: Zhang Zishan

Date: 2023-05-18
 Voltage: DC 13.5V

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18558.025	54.00	36.52	-17.48	83.54	47.02	100	252	Horizontal
2	19430.975	53.98	37.11	-16.87	83.54	46.43	100	297	Horizontal
3	20368.95	52.75	36.18	-16.57	83.54	47.36	100	313	Horizontal
4	22318	51.25	35.79	-15.46	83.54	47.75	100	78	Horizontal
5	25205.45	49.27	35.31	-13.96	83.54	48.23	100	124	Horizontal
6	25869.3	48.66	34.30	-14.36	83.54	49.24	100	185	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	19337.475	54.69	37.46	-17.23	83.54	46.08	100	299	Vertical
2	19928.65	53.74	36.92	-16.82	83.54	46.62	100	237	Vertical
3	21452.275	52.22	36.34	-15.88	83.54	47.20	100	143	Vertical
4	22678.4	51.13	35.97	-15.16	83.54	47.57	100	128	Vertical
5	24668.675	49.17	35.10	-14.07	83.54	48.44	100	315	Vertical
6	26128.55	49.52	35.13	-14.39	83.54	48.41	100	221	Vertical

Note:

Above 18G test distance is 1m, so the Peak Limit = $74 + 20 \cdot \log(3/1) = 83.54$ (dBμV/m).

----- The following blanks -----