

Test Report

Verified code: 713816

Report No.: E202309059135-01-8

Customer: Kräemer Automotive Systems GmbH

Address: Obere Wässere 6-8 72764 Reutlingen Germany

Sample Name: Bentley Infotainment System(BIS)

Sample Model: KR-BIS

Receive Sample Date: Sep.22,2023

Test Date: Nov.28,2023 ~ May.10,2024

Reference Document: 47 CFR, FCC Parts 15 Subpart E Unlicensed National Information Infrastructure Devices

Test Result: Pass

Prepared by: Chen Xiaocong
Chen Xiaocong

Reviewed by: Wu Haoting
Wu Haoting

Approved by: Xiao Liang
Xiao Liang



GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-07-24

GRG METROLOGY & TEST GROUP CO., LTD.

Address: No.163, Pingyun Road, West of Huangpu Avenue, Guangzhou, Guangdong, China
Tel: (+86) 400-602-0999 FAX: (+86) 020-38698685 Web: <http://www.grgtest.com>



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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202309059135-01-8	Original Issue	2024-05-22

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
47 CFR, FCC Parts 15 Subpart E (§15.407)	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	N/A ²⁾
	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
	Output Power	15.407(a)	PASS
	Peak Power Spectral Density	15.407(a)	PASS
	Frequency Stability	15.407(g)	PASS
	Antenna Requirement	15.203	PASS ¹⁾

Note:¹⁾ The antenna is Ceramics antenna. The max gain of antenna is 3.66dBi, which accordance 15.203 is considered sufficient to comply with the provisions of this section.

²⁾Test is not applicable to this Equipment. This EUT is no AC mains power ports.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Kräemer Automotive Systems GmbH
Address: Obere Wässere 6-8 72764 Reutlingen Germany

2.2 MANUFACTURER

Name: Kräemer Automotive Systems GmbH
Address: Obere Wässere 6-8 72764 Reutlingen Germany

2.3 FACTORY

Name : Huizhou Foryou General Electronics Co., Ltd.
Address : No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Bentley Infotainment System(BIS)
Product Model: KR-BIS
FCC ID: 2AD6S-KRBIS
Trade Mark: BENTLEY
Power Supply: DC 12V, 15A
Frequency Band: U-NII-1: 5180MHz~5240MHz
U-NII-3: 5745MHz~5825MHz
Modulation Type: IEEE 802.11a: OFDM
IEEE 802.11n: OFDM
IEEE 802.11ac: OFDM
Antenna Specification: U-NII-1: Ceramics antenna with 2.58dBi antenna gain(max)
U-NII-3: Ceramics antenna with 3.66dBi antenna gain(max)
Channels Spacing: IEEE 802.11a: 20MHz
IEEE 802.11n HT20: 20MHz
IEEE 802.11n HT40: 40MHz
IEEE 802.11acVHT20: 20MHz
IEEE 802.11acVHT40: 40MHz
IEEE 802.11acVHT80: 80MHz
Transmit Power: U-NII-1:
9.28dBm for IEEE 802.11a
8.93dBm for IEEE 802.11n HT20
9.31dBm for IEEE 802.11acVHT20
9.54dBm for IEEE 802.11n HT40
9.31dBm for IEEE 802.11acVHT40
8.25dBm for IEEE 802.11ac VHT80
U-NII-3:

9.08dBm for IEEE 802.11a
8.06dBm for IEEE 802.11n HT20
7.97dBm for IEEE 802.11acVHT20
8.46dBm for IEEE 802.11n HT40
8.28dBm for IEEE 802.11acVHT40
8.15dBm for IEEE 802.11ac VHT80

Temperature Range: -20°C~+60°C

Hardware
Version: V0.1

Software
Version: V00.00.01

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E202309059135-01-0003, E202309059135-01-0004

Note :

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.

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2.5 CHANNEL LIST AND POWER SETTING

Mode	Frequency (MHz)	Power Setting	Frequency (MHz)	Power Setting
IEEE 802.11a	5180	48	5745	48
	5200	48	5785	48
	5240	48	5825	48

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT20	5180	48	IEEE 802.11ac VHT20	5180	48
	5200	48		5200	48
	5240	43		5240	43
	5745	48		5745	48
	5785	48		5785	48
	5825	48		5825	48

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5190	45	IEEE 802.11ac VHT40	5190	48
	5230	41		5230	43
	5755	48		5755	48
	5795	48		5795	48

Mode	Frequency (MHz)	Power Setting	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5210	37	5775	48

Test software:

Software version
adb

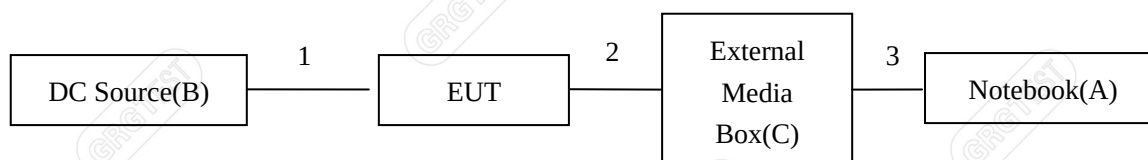
2.6 TEST OPERATION MODE

Mode No.	Description of the modes
1	5GHz Wi-Fi fixed frequency transmitting

2.7 LOCAL SUPPORTIVEINSTRUMENTS

No.	Name of Equipment	Manufacturer	Model	Serial Number
A	Notebook	DELL	Latitude3400	8RZFJW2
B	DC source	KEYSIGHT	E36131A	MY59001135
C	External Media BOX	/	/	/

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

2.8 CONFIGURATION OF SYSTEM UNDER TEST

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2.9 DUTY CYCLE

Environment: 26.4℃/61%RH 101.0kPa
Tested By: Huang Tianmei

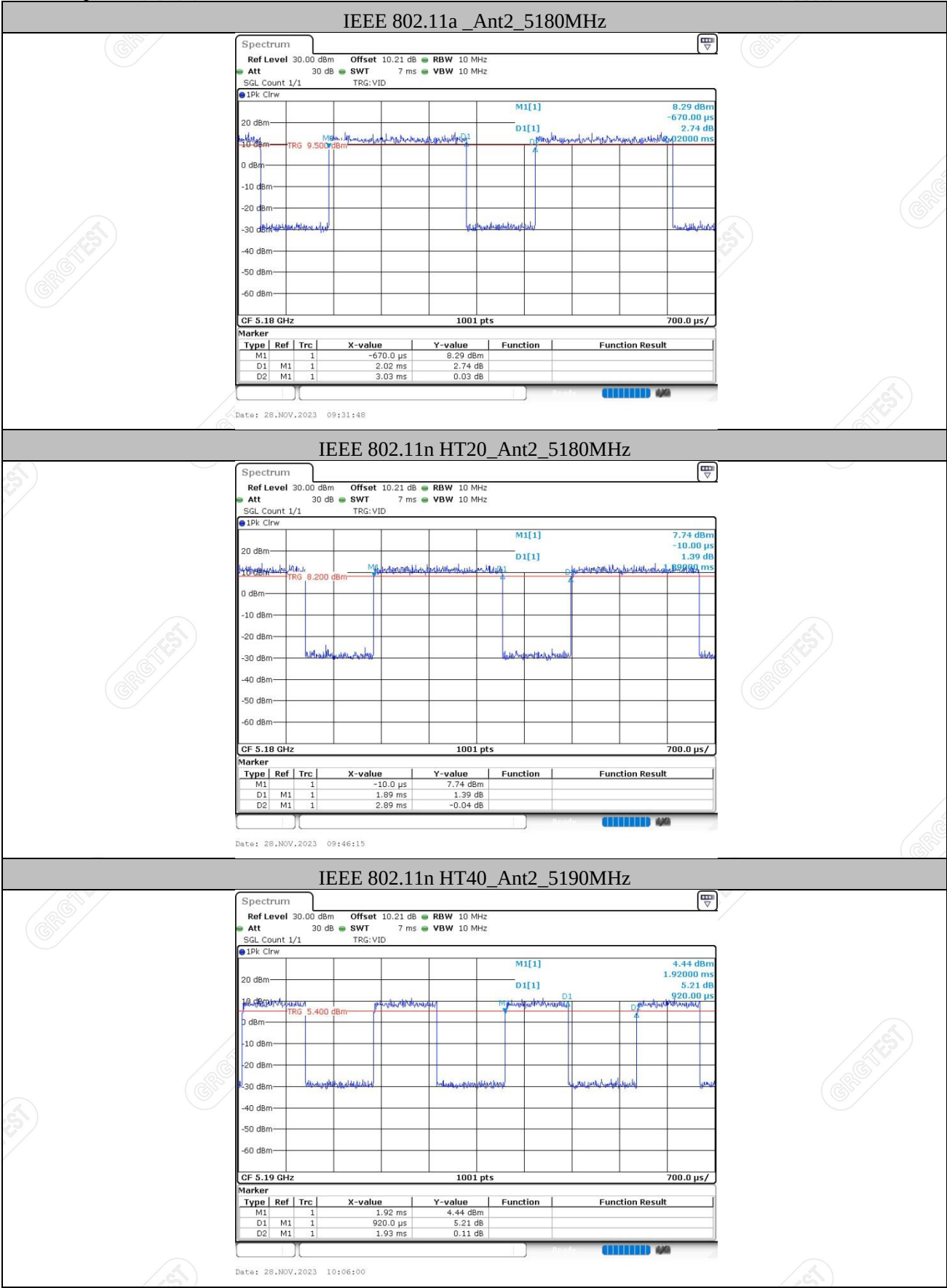
Voltage:DC 12V
Date: 2023-11-28

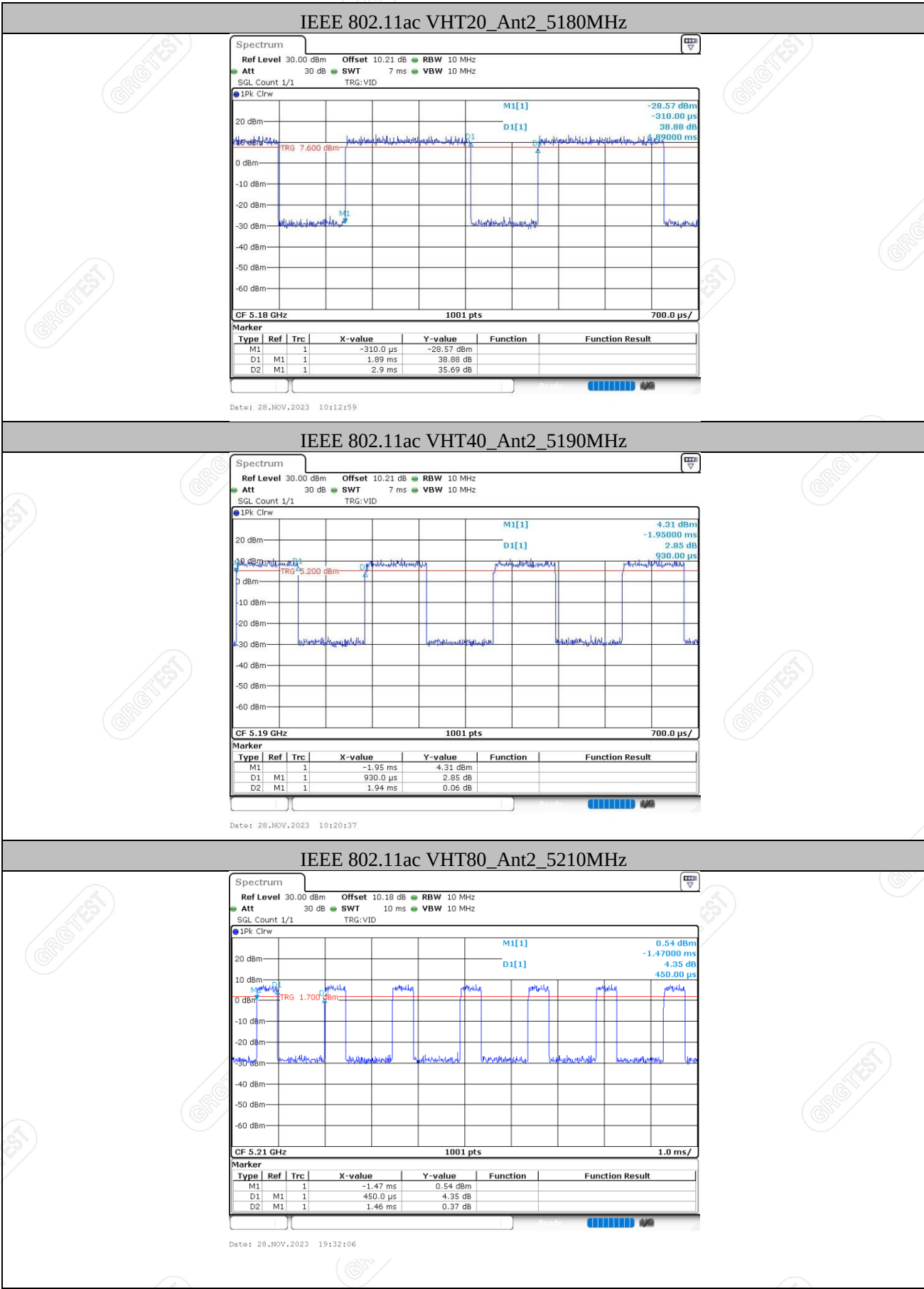
TestMode	Antenna	Freq (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Factor	T(s)
IEEE 802.11a	Ant2	5180	2.02	3.03	66.67	1.76	0.00202
IEEE 802.11n HT20	Ant2	5180	1.89	2.89	65.40	1.84	0.00189
IEEE 802.11n HT40	Ant2	5190	0.92	1.93	47.67	3.22	0.00092
IEEE 802.11ac VHT20	Ant2	5180	1.89	2.90	65.17	1.86	0.00189
IEEE 802.11ac VHT40	Ant2	5190	0.93	1.94	47.94	3.19	0.00093
IEEE 802.11ac VHT80	Ant2	5210	0.45	1.46	30.82	5.11	0.00045

Note:Duty Factor=10log(1/Duty Cycle).

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Test Graphs





3. LABORATORY AND ACCREDITATIONS AND MEASUREMENT UNCERTAINTY

3.1 LABORATORY

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

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C.: 518110

Tel : 0755-61180008

Fax: 0755-61180008

3.2 ACCREDITATIONS

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

USA	A2LA(Certificate #2861.01)
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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,
<http://www.grgtest.com>

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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	X	9kHz~30MHz	4.4dB ¹⁾
	Y	9kHz~30MHz	4.4dB ¹⁾
	Z	9kHz~30MHz	4.4dB ¹⁾
	Horizontal	30MHz~200MHz	4.6dB ¹⁾
		200MHz~1000MHz	4.8dB ¹⁾
		1GHz~18GHz	5.0dB ¹⁾
		18GHz~40GHz	5.2dB ¹⁾
	Vertical	30MHz~200MHz	4.7dB ¹⁾
		200MHz~1000MHz	4.7dB ¹⁾
		1GHz~18GHz	5.1dB ¹⁾
		18GHz~40GHz	5.4dB ¹⁾

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78dB
Power spectral density	0.78dB
Occupied channel bandwidth	0.4dB
Unwanted emission, conducted	0.68dB
Humidity	6.0%
Temperature	2.0°C

Note:

¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95%.

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

4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Unwanted Emissions & Band Edge				
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2024-07-15
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2025-05-07
Preamplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G40	20200928001	2025-01-30
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3402	2024-10-06
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2024-09-23
Test Receiver	R&S	ESR26	101758	2024-09-22
Spectrum Analyzer	Agilent	N9010A	MY52221469	2025-04-19
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2024-09-18
Amplifier	Tonscend	TAP01018048	AP20E8060075	2025-03-01
Amplifier	Tonscend	TAP184050	AP20E806071	2025-03-01
Amplifier	SHIRONG	DLNA-1G18G-G40	20200928005	2024-08-17
Test S/W	Tonscend	JS36-RE/2.5.1.5		
Test S/W	EZ	CCS-03A1		
99% Bandwidth & 6 dB Bandwidth & 26dB Bandwidth & Peak power spectral density & Duty cycle				
Spectrum Analyzer	R&S	FSV30	1321.3008K30 -104381-rH	2024-10-13
Automatic control unit	TONSCEND	JS0806-2	2018060317	2024-08-04
BT/WIFI System	Tonscend	JS1120-3		
Output Power				
Pulse power sensor	Anristu	MA2411B	1126150	2024-02-12
Pulse power sensor	Anristu	MA2411B	1126150	2025-01-11
Power meter	Anristu	ML2495A	1204003	2024-02-12
Power meter	Anristu	ML2495A	1204003	2025-01-11

Frequency Stability				
Spectrum Analyzer	R&S	FSV30	1321.3008K30 -104381-rH	2024-10-13
Automatic control unit	TONSCEND	JS0806-2	2018060317	2024-08-04
DC source	KEYSIGHT	E36131A	MY59001135	2024-09-22
Programmable constant temperature and humidity test chamber	FC	FPHC-23AW-40	FD202306015	2024-09-10
BT/WIFI System	TONSCEND	JS1120-3	/	/

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

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5. UNWANTED EMISSIONS

5.1 LIMITS

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: 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 25 MHz 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 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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5.2 TEST PROCEDURES

- EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters please see the below table.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.

For 9kHz-150kHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9kHz
Stop frequency	150kHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9kHz-90kHz&110kHz-150kHz,the detector is average,other frequency is CISPR QP detector.

For 150kHz-30MHz

Spectrum Parameters	Setting
RBW	9kHz
VBW	9kHz
Start frequency	150kHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150kHz-490kHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120kHz
VBW	300kHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq 98\%$, VBW=10Hz Duty cycle $< 98\%$, VBW $\geq 1/T$ Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note :

- (1) T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 2.9 for the on-time time.
- (2) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$
 where:
 E = electric field strength in dB μ V/m,
 EIRP = equivalent isotropic radiated power in dBm
 D = specified measurement distance in meters.
 So: $E = -27 - 20\log 3 + 104.8 = 68.3 \text{ (dB}\mu\text{V/m)}$.
- (3) The unwanted emissions which fall in Restricted bands shall not exceed the field strength, Above 18G test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dB μ V/m).
 The Avg Limit=54+20*log(3/1)=63.54 (dB μ V/m).
- (4) The maximum emissions of the operation frequency bands, Above 18G test distance is 1m, so the Peak Limit=68.3+20*log(3/1)=77.84 (dB μ V/m).

5.3 TEST SETUP

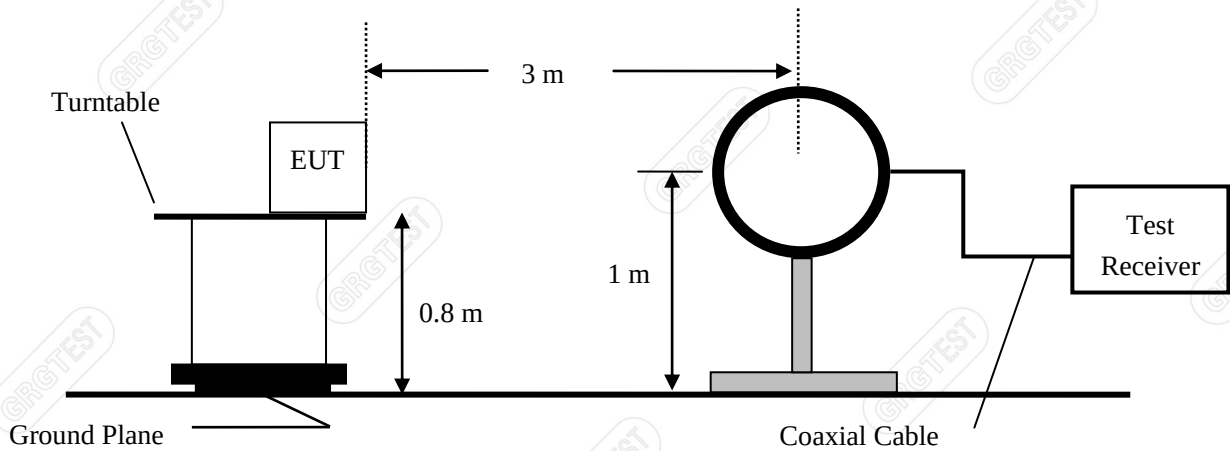


Figure 1. 9kHz to 30MHz radiated emissions test configuration

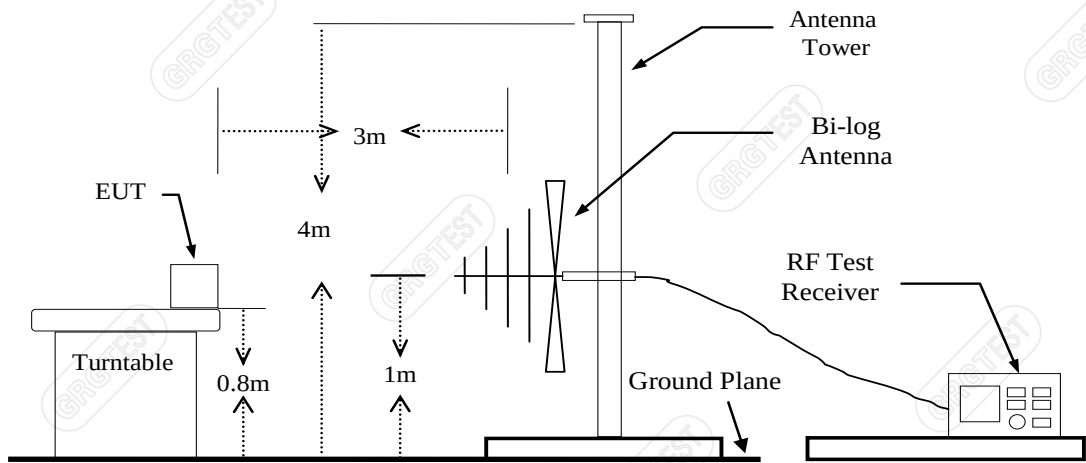


Figure 2. 30MHz to 1GHz radiated emissions test configuration

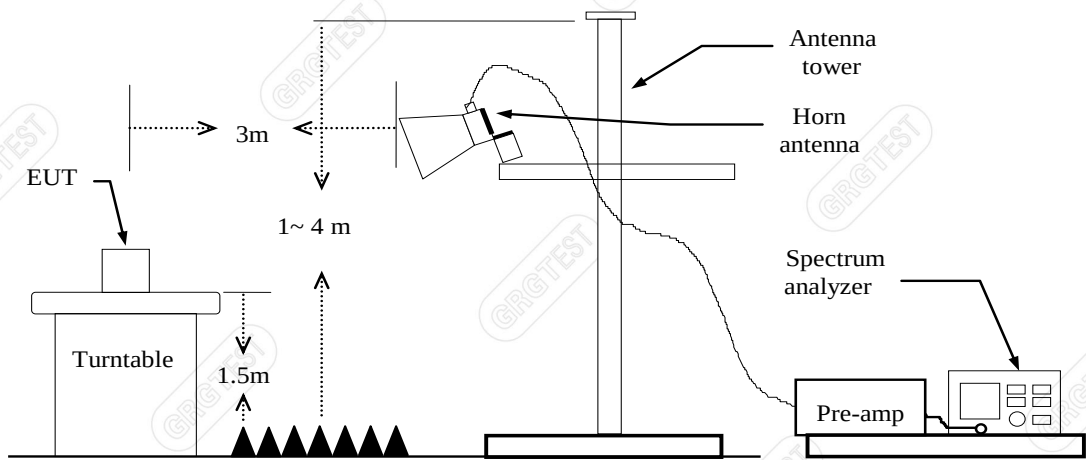


Figure 3. 1GHz to 18GHz radiated emissions test configuration

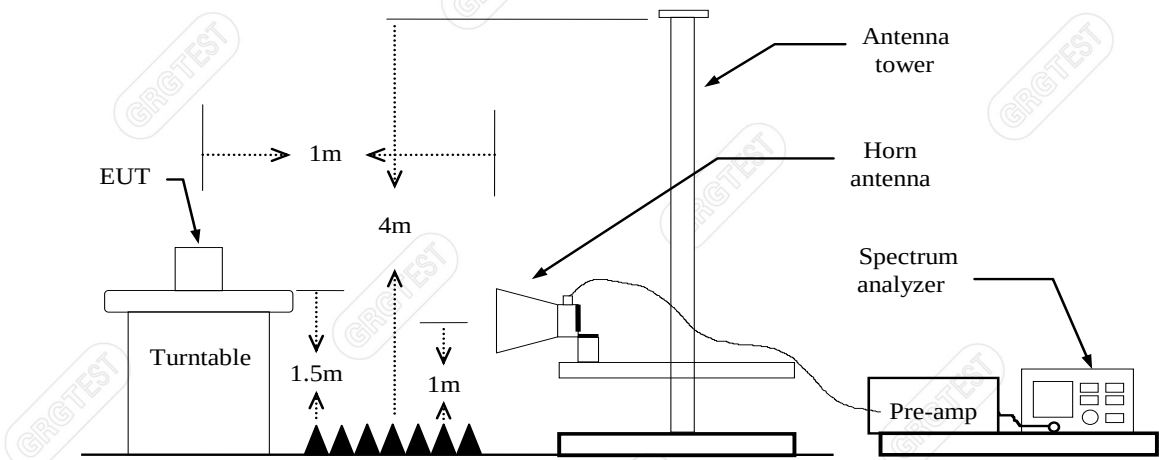


Figure 4. Above 18GHz radiated emissions test configuration

5.4 DATA SAMPLE

30MHz to 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Heigh (cm)	Detector type
XXX.XXXX	54.95	-28.84	26.11	43.50	-17.39	78	200	QP

- Frequency (MHz)

= Emission frequency in MHz
- Reading (dBuV)

= Uncorrected Analyzer / Receiver reading
- Correct Factor (dB/m)

= Antenna factor + Cable loss – Amplifier gain
- Result (dBuV/m)

= Reading (dBuV) + Correct Factor (dB/m)
- Limit (dBuV/m)

= Limit stated in standard
- Margin (dB)

= Result (dBuV/m)-Limit (dBuV/m)
- Peak

= Peak Reading
- QP

= Quasi-peak Reading

1GHz-18GHz

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/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**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	32.84	-12.11	74.00	41.16	100	211	Horizontal	Peak
xxx	xxxx	43.99	31.88	22.34	-12.11	54.00	31.66	100	211	Horizontal	AVG

Frequency (MHz)

= Emission frequency in MHz

Reading (dBuV/m)

= Uncorrected Analyzer / Receiver reading

Factor (dB)

= Antenna factor + Cable loss – Amplifier gain

Level for 1m (dBuV/m)

= Reading (dBuV/m) + Factor (dB)

Level for 3m (dBuV/m)

= Level for 1m (dBuV/m) + 20*log(1/3)

Limit (dBuV/m)

= Limit stated in standard

Margin (dB)

= Limit (dBuV/m) – Level (dBuV/m)

Polarity

= Antenna polarization

Peak

= Peak Reading

AVG = Average Reading

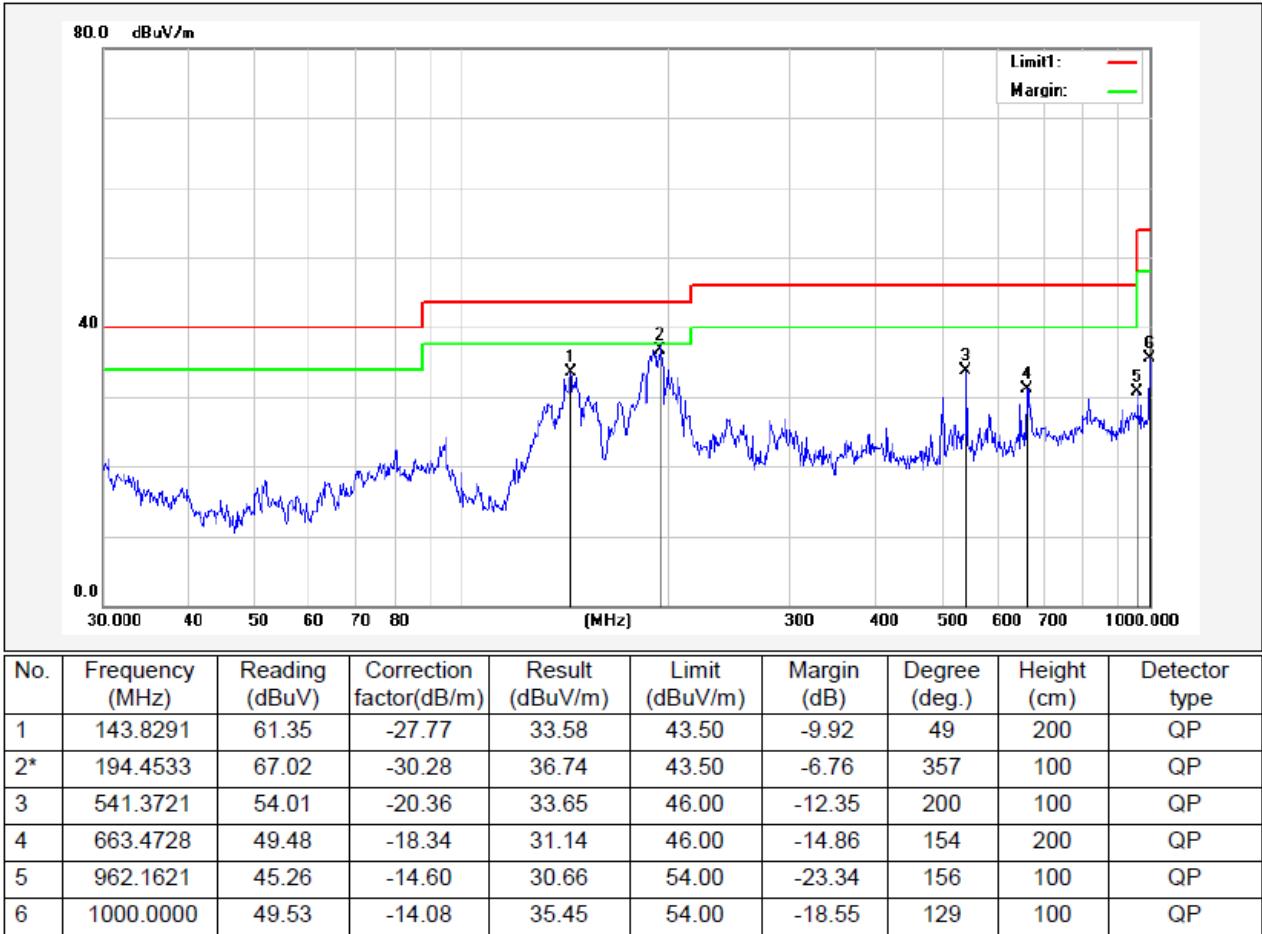
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5.5 TEST RESULTS

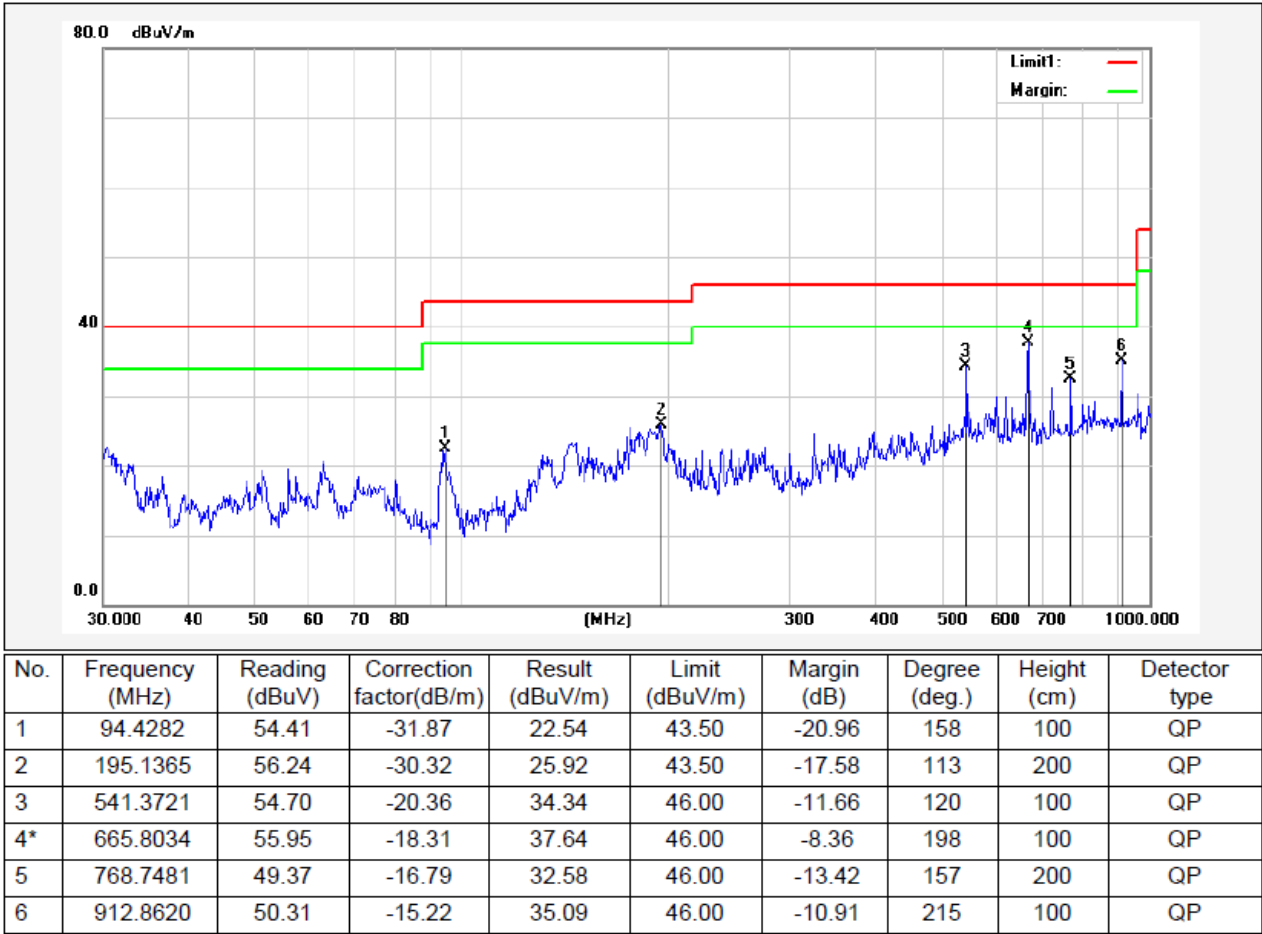
Below 1GHz

Note: Pre-scan all modes, only the worst case(IEEE 802.11a 5200MHz) is recorded in this report.

EUT Name:	Bentley Infotainment System(BIS)	Test Mode:	Mode 1
Model:	KR-BIS	Sample No:	E202309059135-01-0004
Power supply:	DC 12V	Environmental Conditions:	24.8℃/52%RH/101.0kPa
Test Engineer:	Zhang Zishan	Test Date:	2024-05-06
Frequency	IEEE 802.11a 5200MHz	Polarity:	Horizontal



EUT Name:	Bentley Infotainment System(BIS)	Test Mode:	Mode 1
Model:	KR-BIS	Sample No:	E202309059135-01-0004
Power supply:	DC 12V	Environmental Conditions:	24.8℃/52%RH/101.0kPa
Test Engineer:	Zhang Zishan	Test Date:	2024-05-06
Frequency	IEEE 802.11a 5200MHz	Polarity:	Vertical



Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz 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 120kHz.
- 5 If the margin of the pre test results is greater than 6db, it meets the requirements of quasipeak or average values, and final testing is no longer required.

1GHz-18GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Mode: IEEE 802.11a
Lowest Frequency (5180MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1101.2000	62.64	41.66	-20.98	74.00	32.34	200	155	Horizontal
2	1198.5500	62.95	42.16	-20.79	74.00	31.84	100	128	Horizontal
3	2831.5000	55.30	41.12	-14.18	74.00	32.88	100	140	Horizontal
4	3985.4000	57.73	47.70	-10.03	74.00	26.30	100	140	Horizontal
5	8127.2500	42.52	45.62	3.10	74.00	28.38	200	274	Horizontal
6	15436.6500	34.04	51.52	17.48	74.00	22.48	100	31	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	15436.6500	17.48	27.06	44.54	54.00	9.46	100	31	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	1097.3500	62.12	39.58	-22.54	74.00	34.42	200	141	Vertical
2	1662.7500	59.06	38.52	-20.54	74.00	35.48	100	172	Vertical
3	2657.1500	59.35	43.51	-15.84	68.30	24.79	100	75	Vertical
4	3989.2500	55.39	44.88	-10.51	74.00	29.12	100	116	Vertical
5	8291.7000	39.79	43.90	4.11	74.00	30.10	100	235	Vertical
6	12236.2000	36.65	50.85	14.20	74.00	23.15	100	166	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	12236.2000	14.20	26.15	40.35	54.00	13.65	100	166	Vertical

Mode: IEEE 802.11a
Middle Frequency (5200MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1097.9000	62.25	41.25	-21.00	74.00	32.75	200	133	Horizontal
2	1599.5000	59.06	38.70	-20.36	74.00	35.30	100	108	Horizontal
3	1660.0000	62.88	43.12	-19.76	68.30	25.18	100	178	Horizontal
4	3992.5500	55.85	45.70	-10.15	74.00	28.30	100	215	Horizontal
5	7424.6000	42.30	44.71	2.41	74.00	29.29	200	89	Horizontal
6	15885.1500	34.49	51.59	17.10	74.00	22.41	200	118	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	15885.1500	17.10	27.84	44.94	54.00	9.06	200	118	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	1099.5500	63.92	41.34	-22.58	74.00	32.66	200	151	Vertical
2	1663.3000	64.50	43.96	-20.54	74.00	30.04	100	149	Vertical
3	2829.8500	58.58	44.21	-14.37	74.00	29.79	100	28	Vertical
4	3987.6000	57.20	46.73	-10.47	74.00	27.27	100	217	Vertical
5	7441.8500	41.33	43.60	2.27	74.00	30.40	200	291	Vertical
6	15955.3000	35.78	52.15	16.37	74.00	21.85	100	208	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	15955.3000	16.37	26.84	43.21	54.00	10.79	100	208	Vertical

Mode: IEEE 802.11a
Highest Frequency (5240MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1101.7500	61.69	40.73	-20.96	74.00	33.27	200	96	Horizontal
2	1665.5000	58.76	38.99	-19.77	74.00	35.01	100	299	Horizontal
3	3999.7000	53.27	43.00	-10.27	74.00	31.00	100	119	Horizontal
4	4835.1500	49.85	44.27	-5.58	74.00	29.73	100	340	Horizontal
5	8162.9000	40.58	43.70	3.12	74.00	30.30	200	181	Horizontal
6	15536.7000	35.37	52.74	17.37	74.00	21.26	100	20	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	15536.6800	17.37	27.84	45.21	54.00	8.79	100	20	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	1097.9000	63.95	41.41	-22.54	74.00	32.59	200	151	Vertical
2	1660.5500	60.84	40.32	-20.52	74.00	33.68	200	342	Vertical
3	2824.9000	57.60	43.26	-14.34	74.00	30.74	100	219	Vertical
4	3998.0500	58.58	47.85	-10.73	74.00	26.15	100	232	Vertical
5	8465.3500	39.07	43.75	4.68	74.00	30.25	100	343	Vertical
6	15911.6000	36.11	51.39	15.28	74.00	22.61	200	292	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	15911.6000	15.28	26.99	42.27	54.00	11.73	200	292	Vertical

Mode: IEEE 802.11a
Lowest Frequency (5745MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1102.8500	61.18	40.23	-20.95	74.00	33.77	100	138	Horizontal
2	1663.3000	57.75	37.99	-19.76	74.00	36.01	100	192	Horizontal
3	2394.2500	59.96	43.45	-16.51	68.30	24.85	100	123	Horizontal
4	3995.8500	57.77	47.56	-10.21	74.00	26.44	100	123	Horizontal
5	8124.9500	40.59	43.70	3.11	74.00	30.30	200	359	Horizontal
6	15658.6000	35.29	52.64	17.35	74.00	21.36	200	21	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	15658.6010	17.35	27.14	44.49	54.00	9.51	200	359	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	1101.2000	63.73	41.16	-22.57	74.00	32.84	200	166	Vertical
2	1663.8500	60.91	40.36	-20.55	74.00	33.64	200	177	Vertical
3	2828.2000	58.86	44.50	-14.36	74.00	29.50	100	30	Vertical
4	3990.9000	57.81	47.25	-10.56	74.00	26.75	100	150	Vertical
5	8110.0000	41.29	44.34	3.05	74.00	29.66	100	143	Vertical
6	16031.2000	36.04	52.16	16.12	74.00	21.84	100	262	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	16031.1800	16.12	27.55	43.67	54.00	10.33	100	262	Vertical

Mode: IEEE 802.11a
Middle Frequency (5785MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1100.6500	61.20	40.22	-20.98	74.00	33.78	200	97	Horizontal
2	1664.4000	58.56	38.79	-19.77	74.00	35.21	100	326	Horizontal
3	3990.9000	56.62	46.49	-10.13	74.00	27.51	100	125	Horizontal
4	4974.3000	49.26	44.84	-4.42	74.00	29.16	100	57	Horizontal
5	8060.5500	41.49	44.71	3.22	74.00	29.29	200	113	Horizontal
6	15683.9000	34.99	52.35	17.36	74.00	21.65	100	140	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	15683.9000	17.36	27.01	44.37	54.00	9.63	100	140	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	1100.6500	63.59	41.02	-22.57	74.00	32.98	200	151	Vertical
2	1660.0000	62.90	42.38	-20.52	68.30	25.92	100	165	Vertical
3	3995.8500	55.29	44.61	-10.68	74.00	29.39	100	340	Vertical
4	5086.5000	48.71	45.32	-3.39	74.00	28.68	200	151	Vertical
5	8020.3000	41.56	45.07	3.51	68.30	23.23	100	356	Vertical
6	16023.1500	36.59	52.61	16.02	74.00	21.39	100	303	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	16023.1410	16.02	26.87	42.89	54.00	11.11	100	303	Vertical

Mode: IEEE 802.11a
Highest Frequency (5825MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.5500	63.20	42.20	-21.00	74.00	31.80	100	138	Horizontal
2	3999.7000	56.45	46.18	-10.27	74.00	27.82	100	125	Horizontal
3	4845.0500	49.63	44.21	-5.42	74.00	29.79	200	111	Horizontal
4	7434.9500	43.07	45.35	2.28	74.00	28.65	100	20	Horizontal
5	8466.5000	40.50	45.11	4.61	74.00	28.89	100	60	Horizontal
6	17887.3000	29.50	52.01	22.51	74.00	21.99	200	313	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	17887.2140	22.51	27.35	49.86	54.00	4.14	200	313	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	1095.7000	64.39	41.89	-22.50	74.00	32.11	200	153	Vertical
2	1660.5500	61.54	41.02	-20.52	74.00	32.98	200	314	Vertical
3	2819.9500	58.08	43.77	-14.31	74.00	30.23	100	218	Vertical
4	3985.4000	57.47	47.06	-10.41	74.00	26.94	100	231	Vertical
5	9357.7500	39.65	47.29	7.64	74.00	26.71	100	209	Vertical
6	15535.5500	36.11	52.65	16.54	74.00	21.35	100	49	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	15535.5400	16.54	26.81	43.35	54.00	10.65	100	49	Vertical

Mode: IEEE 802.11n HT20
Lowest Frequency (5180MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1101.7500	61.60	40.64	-20.96	74.00	33.36	100	134	Horizontal
2	1664.9500	60.14	40.37	-19.77	74.00	33.63	100	120	Horizontal
3	3987.0500	54.14	44.08	-10.06	74.00	29.92	100	120	Horizontal
4	7434.9500	41.74	44.02	2.28	74.00	29.98	200	200	Horizontal
5	8327.3500	40.21	43.89	3.68	74.00	30.11	200	132	Horizontal
6	17967.8000	29.56	52.67	23.11	74.00	21.33	100	128	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	17967.8000	23.11	24.92	48.03	54.00	5.97	100	128	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	1099.0000	62.51	39.94	-22.57	74.00	34.06	100	84	Vertical
2	1570.9000	56.35	36.65	-19.70	74.00	37.35	200	0	Vertical
3	3983.7500	59.34	48.96	-10.38	74.00	25.04	100	245	Vertical
4	7167.0000	47.49	48.91	1.42	68.30	19.39	100	89	Vertical
5	7397.0000	41.19	44.36	3.17	74.00	29.64	200	276	Vertical
6	15967.9500	35.92	52.10	16.18	74.00	21.90	200	102	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	15967.9400	16.18	27.81	43.99	54.00	10.01	200	102	Vertical

Mode: IEEE 802.11n HT20
Middle Frequency (5200 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1097.9000	61.52	40.52	-21.00	74.00	33.48	100	139	Horizontal
2	1493.3500	55.77	35.42	-20.35	74.00	38.58	100	178	Horizontal
3	2658.2500	58.34	42.58	-15.76	68.30	25.72	100	125	Horizontal
4	3992.5500	53.19	43.04	-10.15	74.00	30.96	100	18	Horizontal
5	8152.5500	41.21	44.27	3.06	74.00	29.73	200	329	Horizontal
6	15664.3500	35.89	53.24	17.35	74.00	20.76	100	155	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	15664.3100	17.35	26.17	43.52	54.00	10.48	100	155	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	1100.1000	63.66	41.07	-22.59	74.00	32.93	200	164	Vertical
2	2356.3000	54.67	38.07	-16.60	74.00	35.93	100	85	Vertical
3	3986.5000	59.04	48.60	-10.44	74.00	25.40	100	246	Vertical
4	7430.3500	42.43	44.97	2.54	74.00	29.03	200	181	Vertical
5	8282.5000	40.33	44.33	4.00	74.00	29.67	200	128	Vertical
6	17820.6000	31.44	52.44	21.00	74.00	21.56	100	248	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	17820.5100	21.00	26.96	47.96	54.00	6.04	100	248	Vertical

Mode: IEEE 802.11n HT20
Highest Frequency (5240MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1101.2000	61.96	40.98	-20.98	74.00	33.02	100	139	Horizontal
2	2826.0000	55.65	41.50	-14.15	74.00	32.50	100	44	Horizontal
3	4862.1000	49.76	44.43	-5.33	74.00	29.57	200	83	Horizontal
4	7502.8000	43.17	44.87	1.70	74.00	29.13	100	304	Horizontal
5	8472.2500	40.57	45.12	4.55	74.00	28.88	200	194	Horizontal
6	15911.6000	35.33	52.50	17.17	74.00	21.50	200	194	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	15911.1700	17.17	27.03	44.20	54.00	9.80	200	194	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	1100.1000	63.60	41.01	-22.59	74.00	32.99	200	150	Vertical
2	1473.0000	58.42	38.67	-19.75	74.00	35.33	200	165	Vertical
3	2821.6000	55.97	41.66	-14.31	74.00	32.34	100	31	Vertical
4	3997.5000	57.69	46.97	-10.72	74.00	27.03	100	152	Vertical
5	8279.0500	40.26	44.21	3.95	74.00	29.79	100	46	Vertical
6	17852.8000	30.86	53.16	22.30	74.00	20.84	200	248	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	17852.4700	22.30	26.82	49.12	54.00	4.88	200	248	Vertical

Mode: IEEE 802.11n HT20
Lowest Frequency (5745MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.5500	61.69	40.69	-21.00	74.00	33.31	100	135	Horizontal
2	1662.2000	58.02	38.25	-19.77	74.00	35.75	200	111	Horizontal
3	3991.4500	56.20	46.06	-10.14	74.00	27.94	100	109	Horizontal
4	7437.2500	41.89	44.14	2.25	74.00	29.86	200	170	Horizontal
5	8047.9000	40.73	43.96	3.23	74.00	30.04	100	141	Horizontal
6	17782.6500	32.73	53.13	20.40	74.00	20.87	200	210	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	17782.6300	20.40	27.04	47.44	54.00	6.56	200	210	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	1096.8000	63.23	40.71	-22.52	74.00	33.29	200	151	Vertical
2	1165.5500	58.62	37.32	-21.30	74.00	36.68	100	110	Vertical
3	2821.0500	56.27	41.95	-14.32	74.00	32.05	100	219	Vertical
4	7400.4500	41.65	44.87	3.22	74.00	29.13	200	262	Vertical
5	8121.5000	41.46	44.48	3.02	74.00	29.52	200	195	Vertical
6	15749.4500	36.72	52.83	16.11	74.00	21.17	100	292	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	15749.4300	16.11	27.06	43.17	54.00	10.83	100	292	Vertical

Mode: IEEE 802.11n HT20
Middle Frequency (5785 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1102.3000	63.67	42.71	-20.96	74.00	31.29	200	123	Horizontal
2	2829.8500	56.02	41.85	-14.17	74.00	32.15	100	150	Horizontal
3	3984.3000	54.05	44.03	-10.02	74.00	29.97	100	123	Horizontal
4	7448.7500	42.41	44.51	2.10	74.00	29.49	100	329	Horizontal
5	8145.6500	40.76	43.82	3.06	74.00	30.18	100	20	Horizontal
6	15700.0000	35.39	52.76	17.37	74.00	21.24	200	250	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	15700.0200	17.38	27.15	44.53	54.00	9.47	200	100	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	1099.0000	64.81	42.24	-22.57	74.00	31.76	200	153	Vertical
2	2824.3500	56.70	42.37	-14.33	74.00	31.63	100	21	Vertical
3	3982.6500	58.72	48.37	-10.35	74.00	25.63	100	234	Vertical
4	7399.3000	41.33	44.55	3.22	74.00	29.45	100	47	Vertical
5	8066.3000	41.02	44.20	3.18	74.00	29.80	100	143	Vertical
6	17674.5500	31.91	52.69	20.78	68.30	15.61	100	306	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	17674.5300	20.78	27.11	47.89	54.00	6.11	100	306	Vertical

Mode: IEEE 802.11n HT20
Highest Frequency (5825MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1100.6500	63.57	42.59	-20.98	74.00	31.41	200	137	Horizontal
2	2824.3500	53.85	39.72	-14.13	74.00	34.28	100	340	Horizontal
3	4857.7000	49.43	44.10	-5.33	74.00	29.90	100	177	Horizontal
4	7296.9500	42.53	44.45	1.92	74.00	29.55	200	222	Horizontal
5	8138.7500	42.00	45.08	3.08	74.00	28.92	200	60	Horizontal
6	17952.8500	29.70	53.22	23.52	74.00	20.78	100	222	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	17952.8300	23.52	27.25	50.77	54.00	3.23	100	222	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	1100.6500	63.45	40.88	-22.57	74.00	33.12	100	97	Vertical
2	2832.6000	58.89	44.50	-14.39	74.00	29.50	100	28	Vertical
3	3989.2500	55.99	45.48	-10.51	74.00	28.52	100	137	Vertical
4	7339.5000	42.22	44.33	2.11	74.00	29.67	100	307	Vertical
5	8119.2000	41.27	44.29	3.02	74.00	29.71	200	129	Vertical
6	17657.3000	32.21	53.01	20.80	68.30	15.29	200	76	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	17657.2500	20.80	27.22	48.02	53.99	5.97	200	76	Vertical

Mode: IEEE 802.11n HT40
Lowest Frequency (5190MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1100.1000	63.07	42.08	-20.99	74.00	31.92	100	305	Horizontal
2	2331.5500	56.78	40.35	-16.43	74.00	33.65	100	305	Horizontal
3	4643.7500	55.56	48.02	-7.54	74.00	25.98	200	305	Horizontal
4	7405.0500	41.56	44.22	2.66	74.00	29.78	200	271	Horizontal
5	8096.2000	40.85	44.02	3.17	74.00	29.98	100	110	Horizontal
6	17944.8000	29.61	53.13	23.52	74.00	20.87	200	217	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	17944.7140	23.52	27.06	50.58	54.00	3.42	200	217	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	1094.6000	63.71	41.23	-22.48	74.00	32.77	200	62	Vertical
2	1198.0000	62.70	41.88	-20.82	74.00	32.12	200	196	Vertical
3	2830.4000	60.18	45.80	-14.38	74.00	28.20	100	48	Vertical
4	3999.1500	55.21	44.45	-10.76	74.00	29.55	100	253	Vertical
5	7398.1500	41.45	44.64	3.19	74.00	29.36	200	56	Vertical
6	16061.1000	36.77	53.03	16.26	74.00	20.97	200	0	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	16061.0200	16.26	26.97	43.23	54.00	10.77	200	0	Vertical

Mode: IEEE 802.11n HT40
Middle Frequency (5230 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1097.9000	61.52	40.52	-21.00	74.00	33.48	100	317	Horizontal
2	2790.2500	63.71	49.47	-14.24	74.00	24.53	200	209	Horizontal
3	4000.2500	53.82	43.54	-10.28	74.00	30.46	100	129	Horizontal
4	7438.4000	41.60	43.83	2.23	74.00	30.17	200	27	Horizontal
5	8105.4000	41.11	44.27	3.16	74.00	29.73	200	27	Horizontal
6	17806.8000	32.24	53.12	20.88	74.00	20.88	100	137	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	17806.7400	20.88	27.18	48.06	54.00	5.94	100	137	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	1103.4000	61.80	39.28	-22.52	74.00	34.72	100	315	Vertical
2	2830.9500	56.62	42.24	-14.38	74.00	31.76	100	100	Vertical
3	3988.7000	60.04	49.54	-10.50	74.00	24.46	100	249	Vertical
4	7400.4500	40.87	44.09	3.22	74.00	29.91	100	341	Vertical
5	8300.9000	39.30	43.50	4.20	74.00	30.50	100	178	Vertical
6	15747.1500	36.89	52.99	16.10	74.00	21.01	200	341	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	15747.1300	16.10	27.10	43.20	54.00	10.80	200	341	Vertical

Mode: I EEE 802.11n HT40
Highest Frequency (5755MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.0000	61.62	40.63	-20.99	74.00	33.37	200	332	Horizontal
2	1599.5000	56.97	36.61	-20.36	74.00	37.39	100	141	Horizontal
3	2822.7000	54.46	40.33	-14.13	74.00	33.67	100	289	Horizontal
4	3984.3000	55.57	45.55	-10.02	74.00	28.45	100	128	Horizontal
5	7426.9000	41.68	44.06	2.38	74.00	29.94	200	40	Horizontal
6	15694.2500	35.28	52.64	17.36	74.00	21.36	200	258	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	15694.2500	17.36	28.06	45.42	54.00	8.58	200	258	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	1097.9000	62.72	40.18	-22.54	74.00	33.82	200	315	Vertical
2	1473.0000	55.69	35.94	-19.75	74.00	38.06	200	330	Vertical
3	2830.4000	57.56	43.18	-14.38	74.00	30.82	100	194	Vertical
4	3995.3000	57.86	47.20	-10.66	74.00	26.80	100	235	Vertical
5	7392.4000	40.99	44.06	3.07	74.00	29.94	200	341	Vertical
6	16041.5500	36.76	53.02	16.26	74.00	20.98	200	98	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	16041.5200	16.26	27.54	43.80	54.00	10.20	200	98	Vertical

Mode: I EEE 802.11n HT40
Lowest Frequency (5795MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.5500	61.53	40.53	-21.00	74.00	33.47	100	317	Horizontal
2	1457.6000	54.59	34.80	-19.79	74.00	39.20	100	360	Horizontal
3	3987.6000	55.22	45.15	-10.07	74.00	28.85	100	128	Horizontal
4	4859.9000	49.85	44.52	-5.33	74.00	29.48	100	19	Horizontal
5	7437.2500	41.74	43.99	2.25	74.00	30.01	200	312	Horizontal
6	16103.6500	35.36	53.09	17.73	74.00	20.91	100	85	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	16103.6000	17.73	27.36	45.09	54.00	8.91	100	85	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	1102.3000	62.38	39.84	-22.54	74.00	34.16	100	316	Vertical
2	2826.5500	59.42	45.07	-14.35	74.00	28.93	100	237	Vertical
3	3989.2500	58.37	47.86	-10.51	74.00	26.14	100	250	Vertical
4	4984.2000	48.98	44.44	-4.54	74.00	29.56	200	317	Vertical
5	7407.3500	40.68	43.74	3.06	74.00	30.26	200	114	Vertical
6	15718.4000	36.97	52.93	15.96	74.00	21.07	200	167	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	15718.3400	15.96	27.55	43.51	54.00	10.49	200	167	Vertical

Mode: IEEE 802.11ac VHT20
Middle Frequency (5180 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1096.8000	61.26	40.26	-21.00	74.00	33.74	200	318	Horizontal
2	1600.0500	60.32	39.96	-20.36	74.00	34.04	100	129	Horizontal
3	2824.9000	54.62	40.48	-14.14	74.00	33.52	200	86	Horizontal
4	4577.7500	53.74	46.15	-7.59	74.00	27.85	100	236	Horizontal
5	8139.9000	40.91	43.98	3.07	74.00	30.02	100	139	Horizontal
6	15519.4500	35.40	52.93	17.53	74.00	21.07	200	0	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	15519.4400	17.53	27.68	45.21	54.00	8.79	200	0	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	1098.4500	61.58	39.02	-22.56	74.00	34.98	200	304	Vertical
2	1162.2500	59.20	37.86	-21.34	74.00	36.14	200	208	Vertical
3	2827.6500	58.52	44.16	-14.36	74.00	29.84	100	46	Vertical
4	7402.7500	40.90	44.06	3.16	74.00	29.94	200	232	Vertical
5	8173.2500	40.86	44.08	3.22	74.00	29.92	100	165	Vertical
6	15530.9500	36.01	52.61	16.60	74.00	21.39	200	69	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	15530.9400	16.60	27.39	43.99	54.00	10.01	200	69	Vertical

Mode: IEEE 802.11ac VHT20
Highest Frequency (5200MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1102.8500	61.13	40.18	-20.95	74.00	33.82	100	317	Horizontal
2	1494.4500	55.90	35.53	-20.37	74.00	38.47	100	360	Horizontal
3	2829.3000	53.51	39.35	-14.16	74.00	34.65	100	86	Horizontal
4	4862.1000	50.26	44.93	-5.33	74.00	29.07	200	142	Horizontal
5	7540.7500	41.43	43.35	1.92	74.00	30.65	100	28	Horizontal
6	15415.9500	35.32	52.89	17.57	74.00	21.11	200	151	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	15415.9100	17.57	27.06	44.63	54.00	9.37	200	151	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	1100.1000	62.41	39.82	-22.59	74.00	34.18	200	316	Vertical
2	2827.1000	56.34	41.99	-14.35	74.00	32.01	100	19	Vertical
3	3982.1000	58.82	48.48	-10.34	74.00	25.52	100	248	Vertical
4	7397.0000	41.21	44.38	3.17	74.00	29.62	200	286	Vertical
5	8272.1500	39.74	43.61	3.87	74.00	30.39	200	272	Vertical
6	16064.5500	36.78	53.00	16.22	74.00	21.00	100	273	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	16064.5300	16.22	28.07	44.29	54.00	9.71	100	273	Vertical

Mode: IEEE 802.11ac VHT20
Middle Frequency (5240 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1103.9500	61.74	40.81	-20.93	74.00	33.19	200	331	Horizontal
2	1456.5000	53.86	34.09	-19.77	74.00	39.91	100	19	Horizontal
3	3992.5500	53.58	43.43	-10.15	74.00	30.57	100	118	Horizontal
4	7436.1000	41.33	43.59	2.26	74.00	30.41	100	95	Horizontal
5	8195.1000	39.96	43.27	3.31	74.00	30.73	100	180	Horizontal
6	17940.2000	30.49	53.95	23.46	74.00	20.05	200	97	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	17940.1000	23.46	26.98	50.44	54.00	3.56	200	97	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	1100.1000	62.26	39.67	-22.59	74.00	34.33	200	331	Vertical
2	1596.2000	58.35	38.43	-19.92	74.00	35.57	200	49	Vertical
3	2826.5500	55.59	41.24	-14.35	74.00	32.76	100	62	Vertical
4	3984.3000	57.76	47.37	-10.39	74.00	26.63	100	156	Vertical
5	7406.2000	41.27	44.36	3.09	74.00	29.64	100	340	Vertical
6	15769.0000	37.21	53.11	15.90	74.00	20.89	200	112	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	15769.0200	15.88	26.99	42.87	54.00	11.13	200	19	Vertical

Mode: IEEE 802.11ac VHT20
Highest Frequency (5745MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1100.6500	61.49	40.51	-20.98	74.00	33.49	200	326	Horizontal
2	1663.3000	57.51	37.75	-19.76	74.00	36.25	100	117	Horizontal
3	2829.3000	54.31	40.15	-14.16	74.00	33.85	100	157	Horizontal
4	4861.0000	49.47	44.14	-5.33	74.00	29.86	100	223	Horizontal
5	8105.4000	40.80	43.96	3.16	74.00	30.04	200	151	Horizontal
6	15678.1500	35.78	53.13	17.35	74.00	20.87	200	178	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	15678.1100	17.35	27.51	44.86	54.00	9.14	200	178	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	1097.3500	62.02	39.48	-22.54	74.00	34.52	200	48	Vertical
2	1570.9000	55.87	36.17	-19.70	74.00	37.83	100	169	Vertical
3	2822.7000	58.02	43.69	-14.33	74.00	30.31	100	224	Vertical
4	7439.5500	41.30	43.62	2.32	74.00	30.38	200	57	Vertical
5	8305.5000	40.21	44.32	4.11	74.00	29.68	200	341	Vertical
6	16110.5500	37.23	53.02	15.79	74.00	20.98	100	70	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	16110.5300	15.79	28.06	43.85	54.00	10.15	100	70	Vertical

Mode: IEEE 802.11ac VHT20
Middle Frequency (5785 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.0000	61.51	40.52	-20.99	74.00	33.48	200	316	Horizontal
2	1599.5000	59.05	38.69	-20.36	74.00	35.31	100	130	Horizontal
3	2823.2500	54.07	39.94	-14.13	74.00	34.06	100	90	Horizontal
4	4946.2500	50.17	45.37	-4.80	74.00	28.63	200	75	Horizontal
5	7429.2000	42.29	44.64	2.35	74.00	29.36	200	231	Horizontal
6	16002.4500	35.13	52.67	17.54	74.00	21.33	200	70	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	16002.4500	17.54	27.06	44.60	54.00	9.40	200	70	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	1103.4000	63.29	40.77	-22.52	74.00	33.23	200	315	Vertical
2	1472.4500	58.06	38.30	-19.76	74.00	35.70	200	18	Vertical
3	2826.0000	57.50	43.15	-14.35	74.00	30.85	100	100	Vertical
4	7410.8000	41.00	43.98	2.98	74.00	30.02	200	165	Vertical
5	8185.9000	40.78	44.15	3.37	74.00	29.85	100	118	Vertical
6	15713.8000	36.65	52.58	15.93	74.00	21.42	100	327	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	15713.7800	15.93	27.18	43.11	54.00	10.89	100	327	Vertical

Mode: IEEE 802.11ac VHT20
Highest Frequency (5825MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1101.2000	61.62	40.64	-20.98	74.00	33.36	200	315	Horizontal
2	1430.1000	62.91	43.22	-19.69	68.30	25.08	100	198	Horizontal
3	2821.6000	54.36	40.25	-14.11	74.00	33.75	200	74	Horizontal
4	3986.5000	55.47	45.42	-10.05	74.00	28.58	100	129	Horizontal
5	4828.0000	50.20	44.51	-5.69	74.00	29.49	200	315	Horizontal
6	15516.0000	35.91	53.48	17.57	74.00	20.52	200	219	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	15516.0000	17.57	28.06	45.63	54.00	8.37	200	219	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	1100.1000	62.13	39.54	-22.59	74.00	34.46	200	316	Vertical
2	1433.9500	64.74	44.46	-20.28	68.30	23.84	100	210	Vertical
3	2823.8000	54.80	40.47	-14.33	74.00	33.53	200	235	Vertical
4	7422.3000	41.84	44.56	2.72	74.00	29.44	100	25	Vertical
5	8134.1500	40.77	43.76	2.99	74.00	30.24	100	25	Vertical
6	15666.6500	36.91	52.89	15.98	74.00	21.11	100	325	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	15666.6500	15.98	26.99	42.97	54.00	11.03	100	325	Vertical

Mode: IEEE 802.11ac VHT40
Middle Frequency (5190 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.5500	61.83	40.83	-21.00	74.00	33.17	100	142	Horizontal
2	1600.0500	56.86	36.50	-20.36	74.00	37.50	100	252	Horizontal
3	2823.8000	53.08	38.95	-14.13	74.00	35.05	100	21	Horizontal
4	3984.8500	56.51	46.48	-10.03	74.00	27.52	100	142	Horizontal
5	7424.6000	41.06	43.47	2.41	74.00	30.53	200	188	Horizontal
6	15778.2000	32.96	50.57	17.61	74.00	19.05	100	258	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	15778.2000	17.61	27.16	44.77	54.00	9.23	100	258	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	1102.8500	63.47	40.94	-22.53	74.00	33.06	100	130	Vertical
2	1661.6500	60.74	40.20	-20.54	74.00	33.80	100	158	Vertical
3	3995.3000	58.16	47.50	-10.66	74.00	26.50	100	158	Vertical
4	7699.4500	42.54	44.77	2.23	74.00	29.23	100	166	Vertical
5	8425.1000	39.80	43.71	3.91	74.00	30.29	100	166	Vertical
6	15704.6000	36.98	52.87	15.89	74.00	21.13	100	286	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	15704.5900	15.89	27.37	43.26	54.00	10.74	100	286	Vertical

Mode: IEEE 802.11ac VHT40
Highest Frequency (5230MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.5500	61.34	40.34	-21.00	74.00	33.66	100	237	Horizontal
2	1394.3500	55.87	36.10	-19.77	74.00	37.90	200	237	Horizontal
3	1662.2000	63.52	43.75	-19.77	74.00	30.25	100	117	Horizontal
4	2832.0500	56.65	42.47	-14.18	74.00	31.53	100	305	Horizontal
5	7509.7000	41.94	43.68	1.74	74.00	30.32	200	138	Horizontal
6	16207.1500	35.64	52.89	17.25	68.30	15.41	200	339	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	16207.1300	17.25	27.32	44.57	53.80	9.23	200	339	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	1095.1500	64.27	41.79	-22.48	74.00	32.21	100	150	Vertical
2	1498.8500	56.47	37.09	-19.38	74.00	36.91	100	128	Vertical
3	2832.6000	59.18	44.79	-14.39	74.00	29.21	100	246	Vertical
4	3987.6000	57.43	46.96	-10.47	74.00	27.04	100	246	Vertical
5	7397.0000	41.42	44.59	3.17	74.00	29.41	200	69	Vertical
6	15703.4500	37.13	53.01	15.88	74.00	20.99	100	69	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	15703.4300	15.88	27.18	43.06	54.00	10.94	100	69	Vertical

Mode: IEEE 802.11ac VHT40
Middle Frequency (5755 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1103.4000	62.01	41.06	-20.95	74.00	32.94	200	142	Horizontal
2	1162.8000	59.32	38.87	-20.45	74.00	35.13	100	318	Horizontal
3	2823.2500	57.32	43.19	-14.13	74.00	30.81	200	212	Horizontal
4	5034.8000	48.33	44.64	-3.69	74.00	29.36	100	238	Horizontal
5	7424.6000	41.49	43.90	2.41	74.00	30.10	200	258	Horizontal
6	15662.0500	35.62	52.97	17.35	74.00	21.03	100	178	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	15662.0300	17.35	26.96	44.31	54.00	9.69	100	178	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	1099.0000	63.38	40.81	-22.57	74.00	33.19	100	140	Vertical
2	1597.3000	67.98	48.04	-19.94	74.00	25.96	200	102	Vertical
3	2820.5000	57.26	42.95	-14.31	74.00	31.05	100	235	Vertical
4	3998.6000	57.28	46.53	-10.75	74.00	27.47	100	34	Vertical
5	7436.1000	41.56	43.96	2.40	74.00	30.04	200	69	Vertical
6	16103.6500	37.16	52.99	15.83	74.00	21.01	100	125	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	16103.6500	15.83	27.13	42.96	54.00	11.04	100	125	Vertical

Mode: IEEE 802.11ac VHT40
Highest Frequency (5795MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1103.9500	61.30	40.37	-20.93	74.00	33.63	200	128	Horizontal
2	1600.0500	60.01	39.65	-20.36	74.00	34.35	100	141	Horizontal
3	2820.5000	54.20	40.09	-14.11	74.00	33.91	200	210	Horizontal
4	3983.7500	53.42	43.41	-10.01	74.00	30.59	100	223	Horizontal
5	7356.7500	41.94	43.78	1.84	74.00	30.22	100	218	Horizontal
6	15729.9000	35.59	53.22	17.63	74.00	20.78	200	218	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	15729.9000	17.63	28.16	45.79	54.00	8.21	200	218	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	1097.3500	63.62	41.08	-22.54	74.00	32.92	100	128	Vertical
2	1472.4500	56.24	36.48	-19.76	74.00	37.52	200	156	Vertical
3	2821.0500	58.38	44.06	-14.32	74.00	29.94	100	250	Vertical
4	3999.7000	55.82	45.05	-10.77	74.00	28.95	100	236	Vertical
5	7408.5000	41.66	44.70	3.04	74.00	29.30	200	96	Vertical
6	15677.0000	36.97	52.92	15.95	74.00	21.08	100	80	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	15677.0300	15.94	28.07	44.01	54.00	9.99	100	109	Vertical

Mode: IEEE 802.11ac VHT80
Middle Frequency (5210 MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.8000	69.93	47.16	-22.77	74.00	26.84	200	322	Horizontal
2	1663.8500	67.98	46.22	-21.76	74.00	27.78	100	320	Horizontal
3	2784.7500	56.54	39.92	-16.62	74.00	34.08	200	208	Horizontal
4	4135.5500	55.42	43.32	-12.10	74.00	30.68	100	16	Horizontal
5	7617.8000	50.84	47.81	-3.03	74.00	26.19	100	220	Horizontal
6	16448.6500	44.60	54.17	9.57	68.30	14.13	200	40	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	16448.6300	9.57	28.10	37.67	53.83	16.16	200	40	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	1164.4500	69.13	45.52	-23.61	74.00	28.48	200	36	Vertical
2	1328.3500	68.32	46.09	-22.23	74.00	27.91	100	16	Vertical
3	1662.7500	69.32	46.78	-22.54	74.00	27.22	200	36	Vertical
4	7305.0000	50.71	47.49	-3.22	74.00	26.51	100	88	Vertical
5	8469.9500	48.05	47.48	-0.57	74.00	26.52	200	28	Vertical
6	16215.2000	44.04	52.74	8.70	68.30	15.56	200	334	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	16215.3000	8.65	27.15	35.80	53.80	18.00	100	305	Vertical

Mode: IEEE 802.11ac VHT80
Highest Frequency (5775MHz)
Environment: 24.3°C/56%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2024-05-10
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1102.8500	60.79	39.84	-20.95	74.00	34.16	100	232	Horizontal
2	1481.2500	54.72	34.56	-20.16	74.00	39.44	100	340	Horizontal
3	2826.0000	53.71	39.56	-14.15	74.00	34.44	100	287	Horizontal
4	5059.0000	47.85	44.33	-3.52	74.00	29.67	100	165	Horizontal
5	7401.6000	41.26	43.97	2.71	74.00	30.03	200	182	Horizontal
6	15386.0500	35.25	52.90	17.65	74.00	21.10	200	142	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	15386.0300	17.65	28.04	45.69	54.00	8.31	200	142	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	1100.1000	63.32	40.73	-22.59	74.00	33.27	100	122	Vertical
2	1165.0000	59.04	37.74	-21.30	74.00	36.26	200	191	Vertical
3	2824.9000	56.58	42.24	-14.34	74.00	31.76	100	81	Vertical
4	7700.6000	41.68	43.92	2.24	74.00	30.08	100	349	Vertical
5	8213.5000	40.86	44.42	3.56	74.00	29.58	100	308	Vertical
6	16085.2500	36.08	52.08	16.00	74.00	21.92	200	265	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	16085.2500	16.00	27.19	43.19	54.00	10.81	200	265	Vertical

18GHz-40GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Note: Pre-scan all modes, only the worst case(IEEE 802.11n HT40_5190MHz) is recorded in this report.

Mode: IEEE 802.11n HT40

Lowest Frequency (5190MHz)

Environment:24.3°C/56%RH/101.0kPa

Tested By:Zhang Zishan

Date: 2024-05-10

Voltage:DC 12V

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18920.7000	57.03	45.86	36.32	-11.17	74.00	37.68	150	52	Horizontal
2	21604.7000	54.66	44.74	35.2	-9.92	68.30	33.1	150	239	Horizontal
3	25021.3000	54.12	46.25	36.71	-7.87	68.30	31.59	150	174	Horizontal
4	30817.2000	57.15	48.69	39.15	-8.46	68.30	29.15	150	167	Horizontal
5	34228.3000	58.25	49.28	39.74	-8.97	68.30	28.56	150	123	Horizontal
6	40000.0000	52.50	51.53	41.99	-0.97	68.30	26.31	150	232	Horizontal

Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18999.9000	55.78	44.68	35.14	-11.10	74.00	38.86	150	138	Vertical
2	23882.8000	54.08	45.70	36.16	-8.38	74.00	37.84	150	61	Vertical
3	25893.6000	54.18	45.94	36.4	-8.24	68.30	31.9	150	268	Vertical
4	29966.9000	56.35	48.19	38.65	-8.16	68.30	29.65	150	10	Vertical
5	34662.8000	58.64	49.44	39.9	-9.20	68.30	28.4	150	321	Vertical
6	37980.4000	54.42	51.17	41.63	-3.25	68.30	26.67	150	169	Vertical

Remark:

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20*log(1/3)

6. RESTRICTED BANDS OF OPERATION

6.1 LIMITS

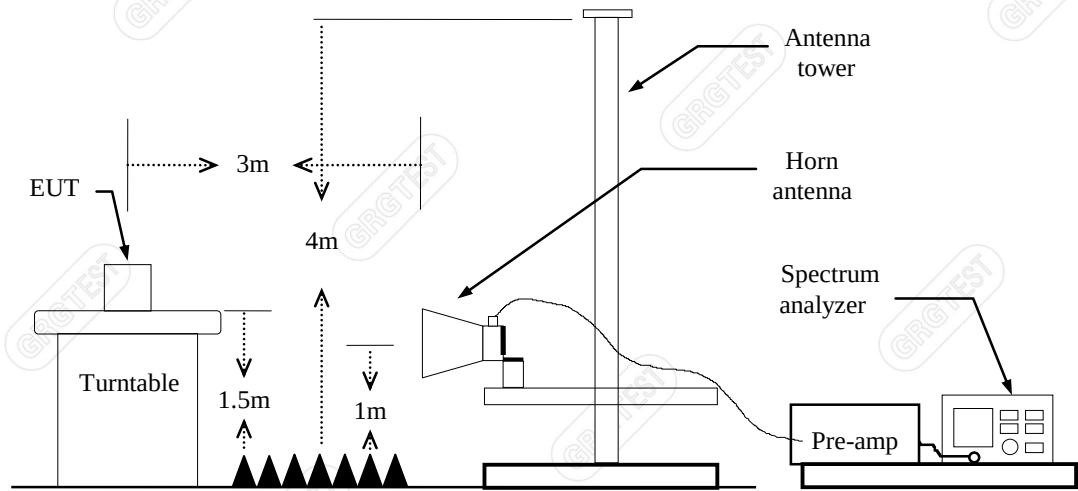
Section 15.407(b)(10) The provisions of §15.205 apply to intentional radiators operating under this section. 15.205(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

6.2 TEST PROCEDURES

- The EUT is placed on a turntable, which is 1.5m above the ground plane.
- The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - PEAK Measurement: RBW=1MHz / VBW=3MHz / Sweep=AUTO
 - AVERAGE Measurement: RBW=1MHz, Sweep=AUTO, There are two cases of VBW.
If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW=10Hz. If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$, Where T is defined in section 2.9.
- Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

6.3 TEST SETUP



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6.4 TEST RESULTS

IEEE 802.11a mode ANT2

Lowest Channel

Frequency 5180MHz

Environment: 24.3°C/56%RH/101.0kPa

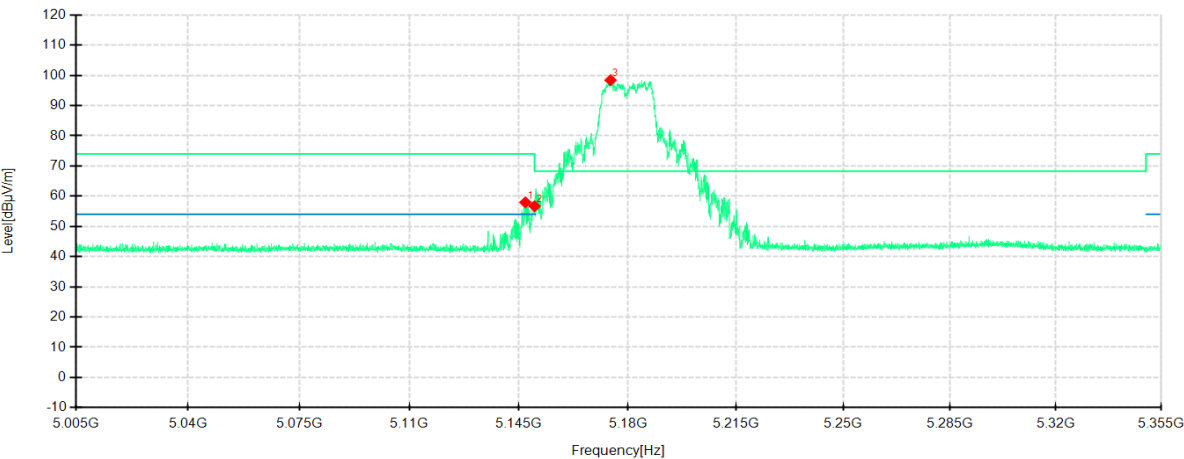
Tested By: Zhang Zishan

Detector mode: Peak

Voltage: DC 12V

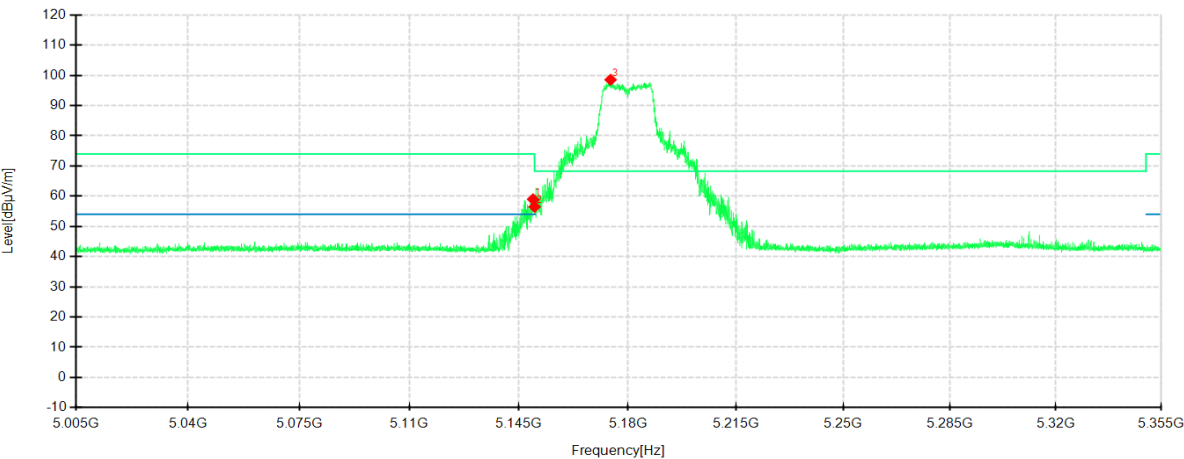
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dB μ V/m	Level dB μ V/m	Factor dB	Limit dB μ V/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5147.0563	61.86	57.96	-3.90	74.00	16.04	100	262	Horizontal	/
2	5150.0000	60.63	56.70	-3.93	68.30	11.60	100	262	Horizontal	/
3	5174.4438	101.93	98.42	-3.51	68.30	-30.12	100	262	Horizontal	No limit
1	5149.5063	63.13	59.00	-4.13	74.00	15.00	200	109	Vertical	/
2	5150.0000	60.61	56.48	-4.13	68.30	11.82	200	31	Vertical	/
3	5174.4438	102.31	98.55	-3.76	68.30	-30.25	200	109	Vertical	No limit

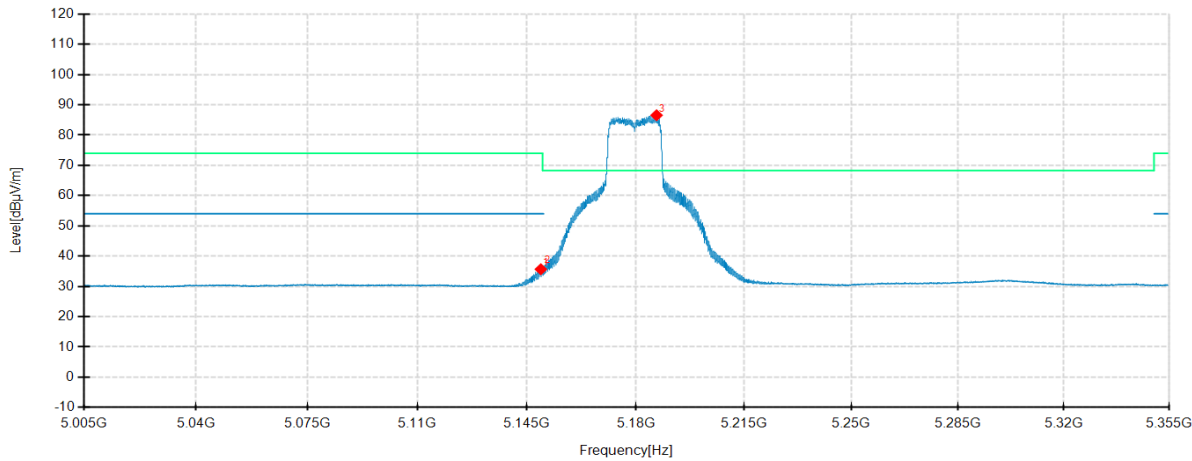
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IEEE 802.11a mode ANT2

Lowest Channel

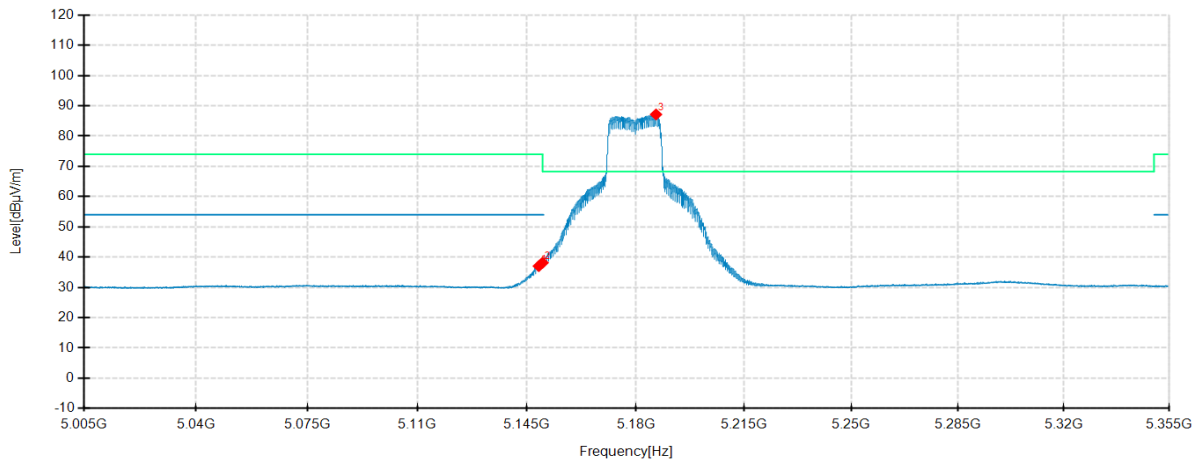
Frequency 5180MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Average

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5149.4625	39.60	35.67	-3.93	54.00	18.33	100	260	Horizontal	/
2	5150.0000	40.37	36.44	-3.93	54.00	17.56	100	260	Horizontal	/
3	5186.7200	89.85	86.56	-3.29	-	-	100	260	Horizontal	No limit
1	5148.7975	41.15	37.04	-4.11	54.00	16.96	200	118	Vertical	/
2	5150.0000	42.29	38.16	-4.13	54.00	15.84	200	101	Vertical	/
3	5186.5450	90.73	87.15	-3.58	-	-	200	118	Vertical	No limit

IEEE 802.11a mode ANT2

Highest Channel

Frequency 5240MHz

Environment: 24.3°C/56%RH/101.0kPa

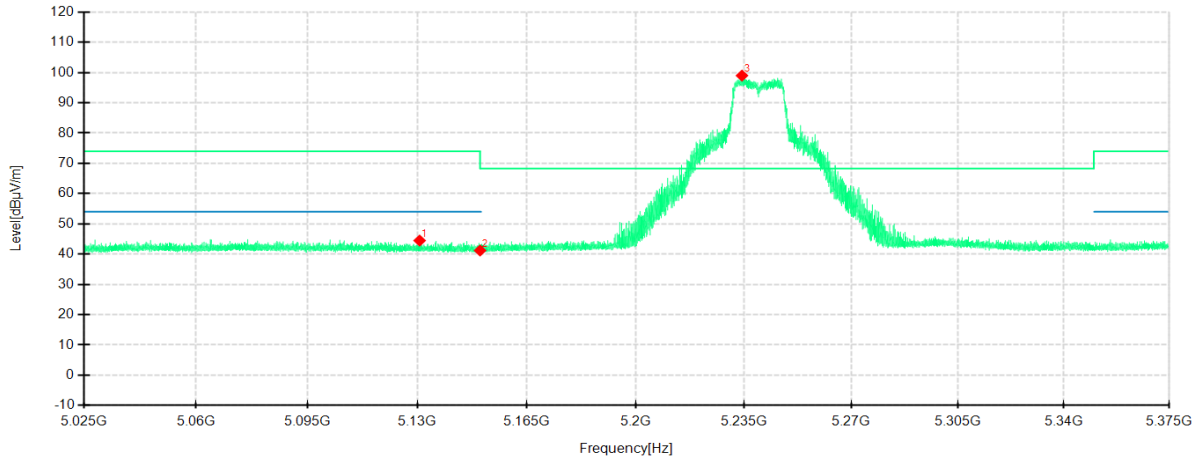
Tested By: Zhang Zishan

Detector mode: Peak

Voltage: DC 12V

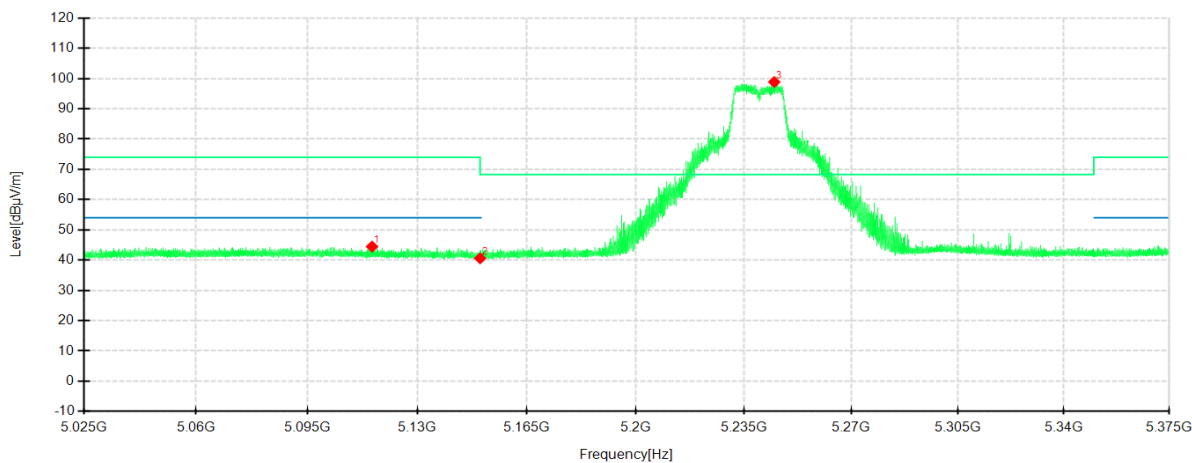
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



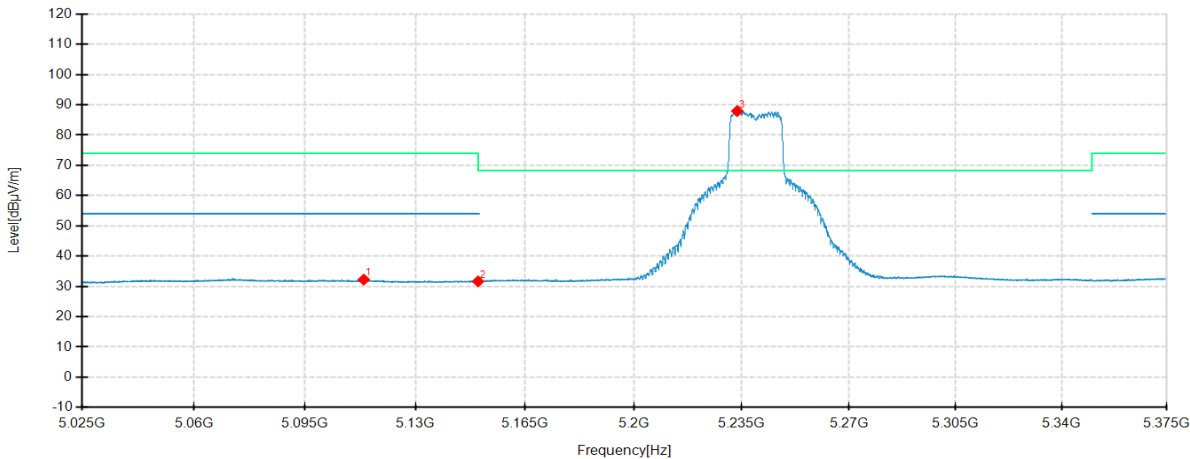
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5130.7000	48.24	44.49	-3.75	74.00	29.51	200	118	Horizontal	/
2	5150.0000	45.14	41.21	-3.93	68.30	27.09	100	212	Horizontal	/
3	5234.4050	102.45	99.00	-3.45	68.30	-30.70	100	260	Horizontal	No limit
1	5115.5975	48.10	44.49	-3.61	74.00	29.51	100	246	Vertical	/
2	5150.0000	44.74	40.61	-4.13	68.30	27.69	200	222	Vertical	/
3	5244.9050	102.82	98.87	-3.95	68.30	-30.57	200	108	Vertical	No limit

IEEE 802.11a mode ANT2

Highest Channel

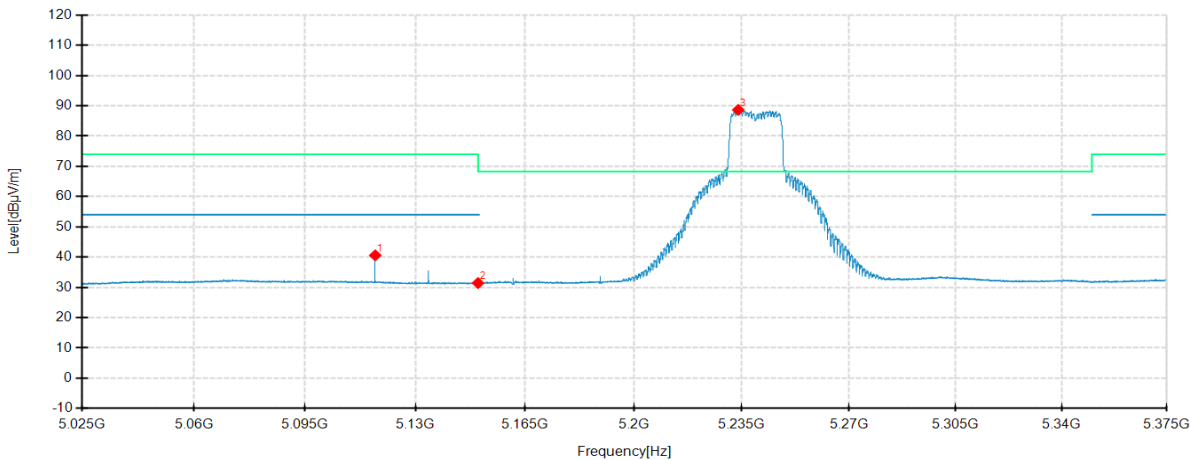
Frequency 5240MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Average

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



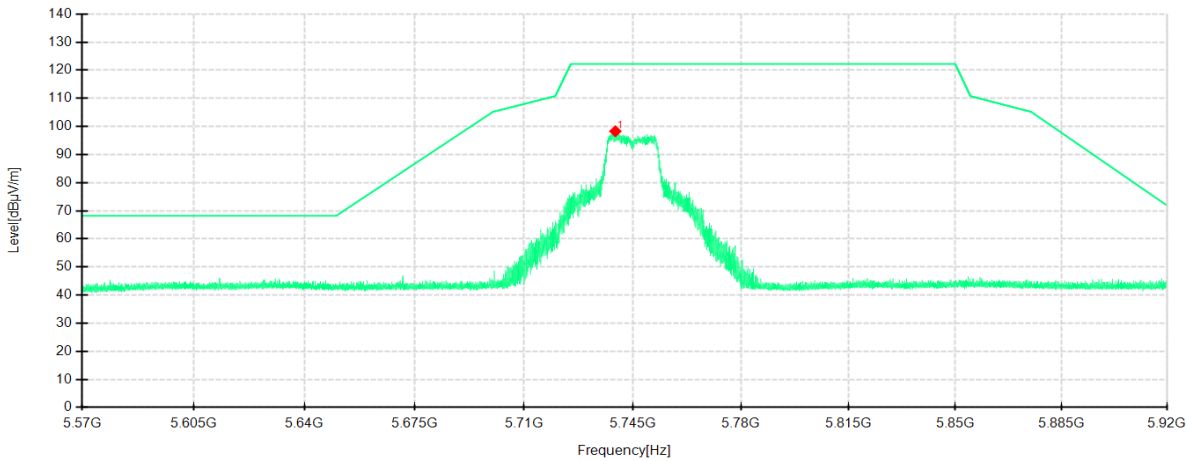
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5113.5850	35.86	32.25	-3.61	54.00	21.75	200	2	Horizontal	/
2	5150.0000	35.59	31.66	-3.93	54.00	22.34	100	128	Horizontal	/
3	5233.5300	91.39	87.95	-3.44	-	-	100	259	Horizontal	No limit
1	5117.2250	44.25	40.61	-3.64	54.00	13.39	200	204	Vertical	/
2	5150.0000	35.58	31.45	-4.13	54.00	22.55	200	353	Vertical	/
3	5233.8450	92.48	88.67	-3.81	-	-	100	121	Vertical	No limit

IEEE 802.11a mode ANT2

Lowest Channel

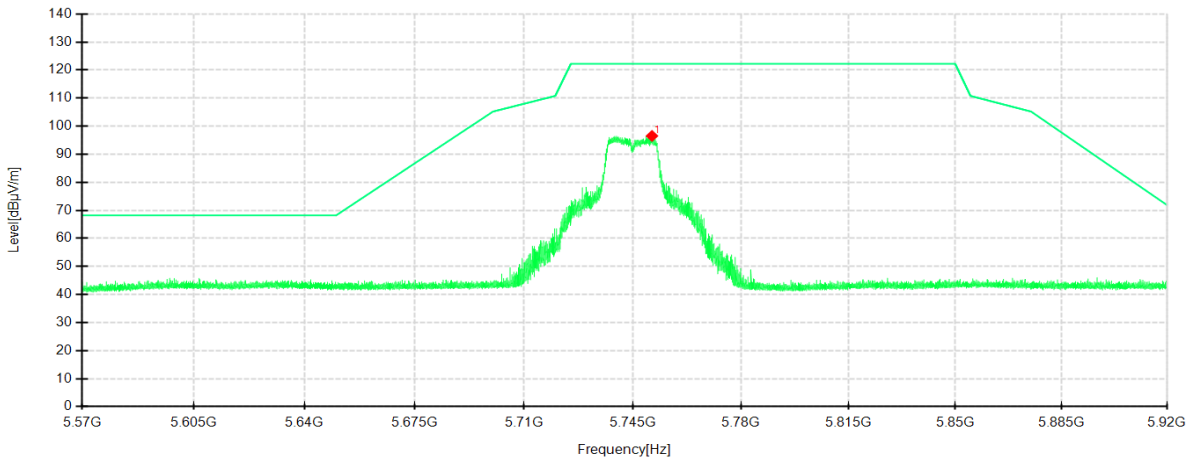
Frequency 5745MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Peak

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



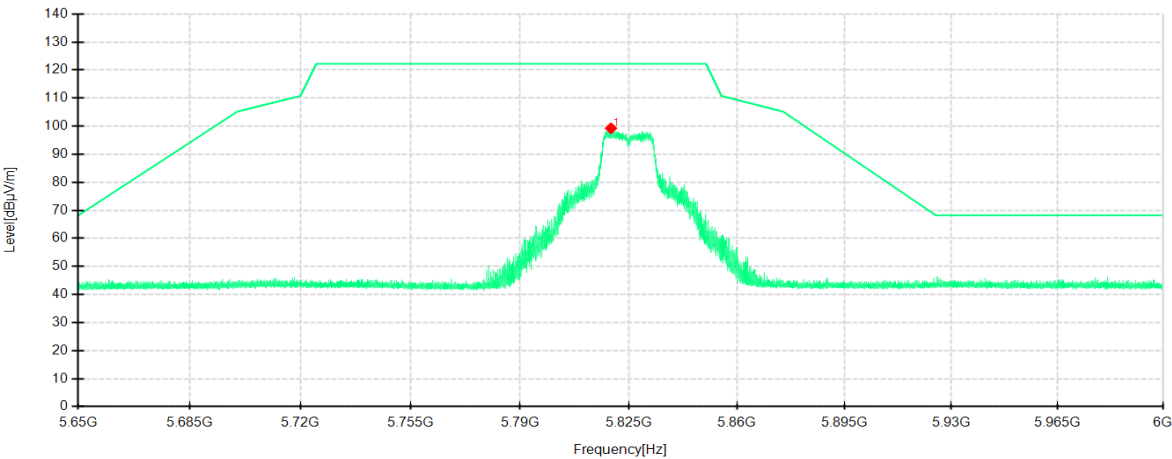
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5739.3475	100.92	98.29	-2.63	122.20	23.91	100	262	Horizontal	/
1	5751.1775	99.40	96.52	-2.88	122.20	25.68	200	99	Vertical	/

IEEE 802.11a mode ANT2

Lowest Channel

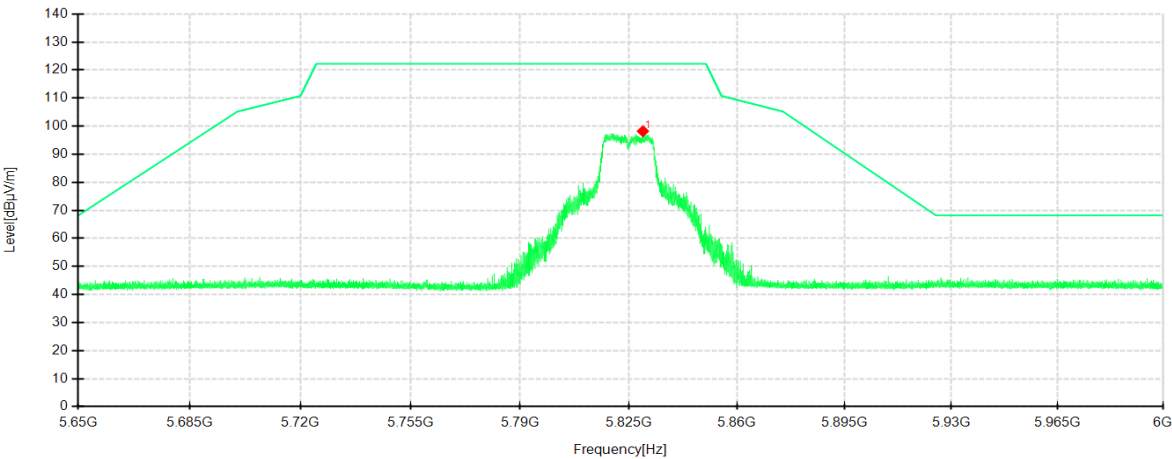
Frequency 5825MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Peak

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5819.2600	101.69	99.26	-2.43	122.20	22.94	100	259	Horizontal	/
1	5829.5675	100.74	98.21	-2.53	122.20	23.99	200	99	Vertical	/

IEEE 802.11n HT20 mode ANT2

Highest Channel

Frequency 5180MHz

Environment: 24.3°C/56%RH/101.0kPa

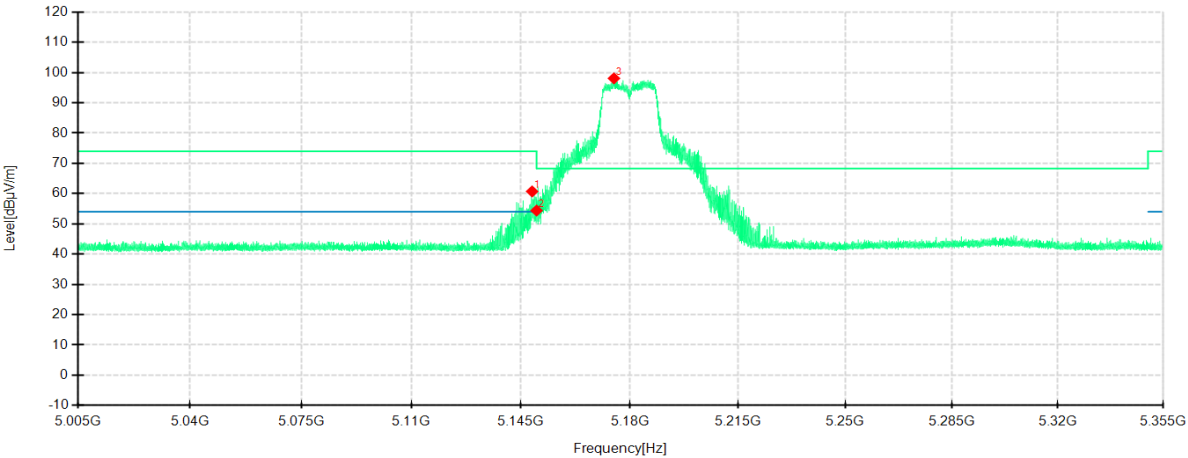
Tested By: Zhang Zishan

Detector mode: Peak

Voltage: DC 12V

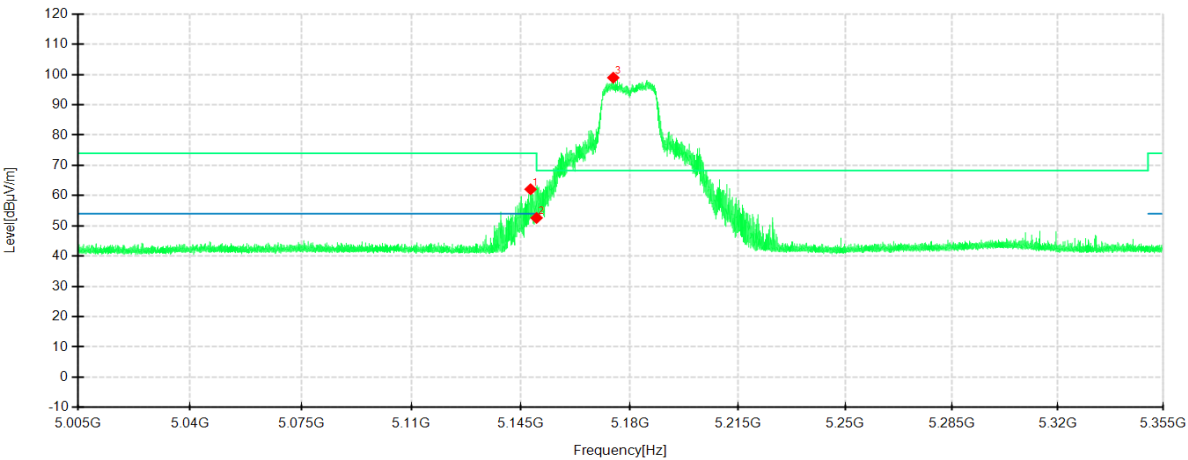
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5148.5700	64.65	60.73	-3.92	74.00	13.27	100	243	Horizontal	/
2	5150.0000	58.34	54.41	-3.93	68.30	13.89	100	243	Horizontal	/
3	5174.8900	101.58	98.08	-3.50	68.30	-29.78	100	243	Horizontal	No limit
1	5148.0800	66.20	62.10	-4.10	74.00	11.90	200	117	Vertical	/
2	5150.0000	56.76	52.63	-4.13	68.30	15.67	200	117	Vertical	/
3	5174.6800	102.72	98.96	-3.76	68.30	-30.66	200	117	Vertical	No limit

IEEE 802.11n HT20 mode ANT2

Highest Channel

Frequency 5180MHz

Environment: 24.3°C/56%RH/101.0kPa

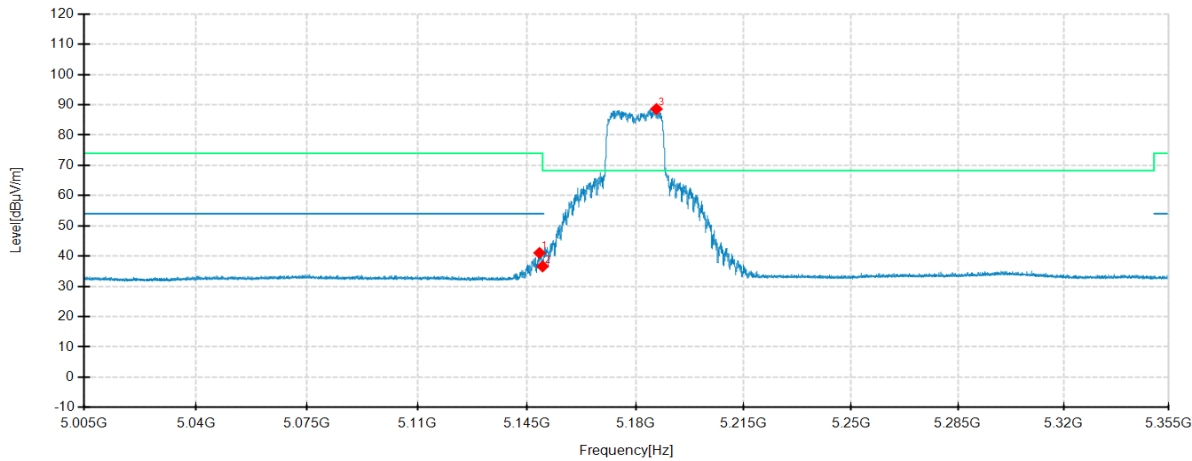
Tested By: Zhang Zishan

Detector mode: Average

Voltage: DC 12V

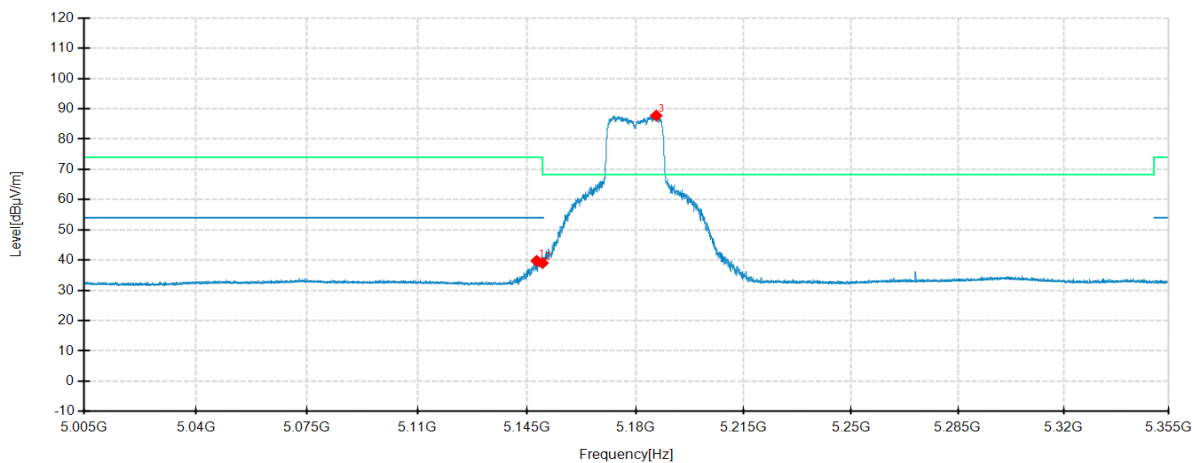
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



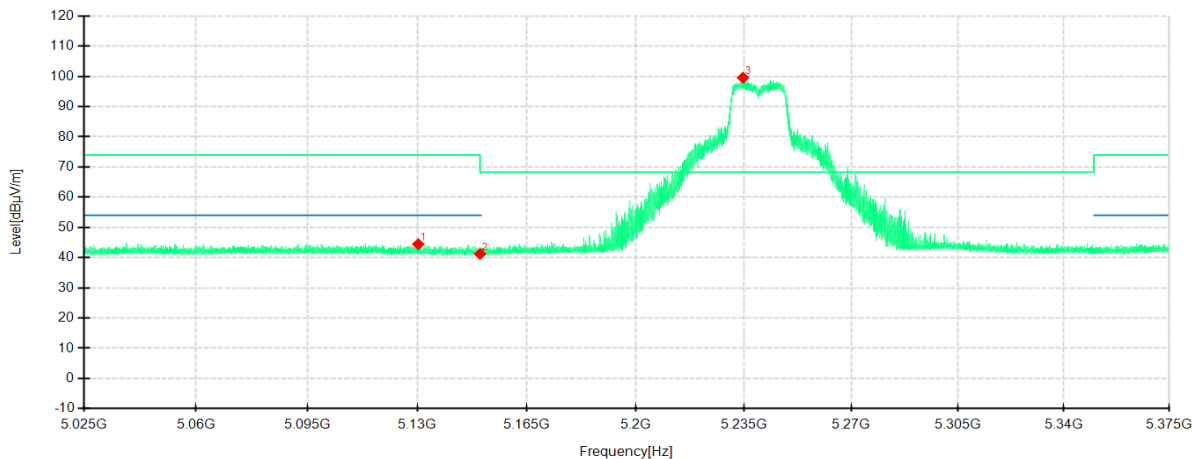
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5149.0250	44.99	41.07	-3.92	54.00	12.93	100	265	Horizontal	/
2	5150.0000	40.54	36.61	-3.93	54.00	17.39	100	250	Horizontal	/
3	5186.6850	91.91	88.61	-3.30	-	-	100	265	Horizontal	No limit
1	5148.1150	43.87	39.77	-4.10	54.00	14.23	100	108	Vertical	/
2	5150.0000	43.17	39.04	-4.13	54.00	14.96	100	108	Vertical	/
3	5186.6150	91.34	87.76	-3.58	-	-	100	121	Vertical	No limit

IEEE 802.11n HT20 mode ANT2

Lowest Channel

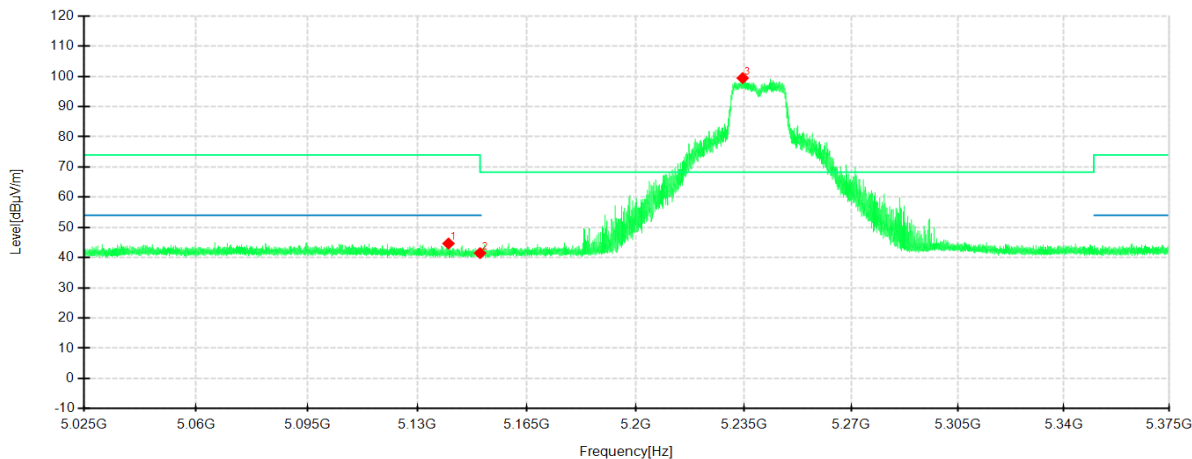
Frequency 5240MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Peak

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5130.2625	48.21	44.46	-3.75	74.00	29.54	200	149	Horizontal	/
2	5150.0000	45.17	41.24	-3.93	68.30	27.06	200	83	Horizontal	/
3	5234.7550	103.01	99.56	-3.45	68.30	-31.26	100	243	Horizontal	No limit
1	5139.9050	48.66	44.68	-3.98	74.00	29.32	200	260	Vertical	/
2	5150.0000	45.62	41.49	-4.13	68.30	26.81	200	243	Vertical	/
3	5234.6325	103.27	99.45	-3.82	68.30	-31.15	200	117	Vertical	No limit

IEEE 802.11n HT20 mode ANT2

Lowest Channel

Frequency 5240MHz

Environment: 24.3°C/56%RH/101.0kPa

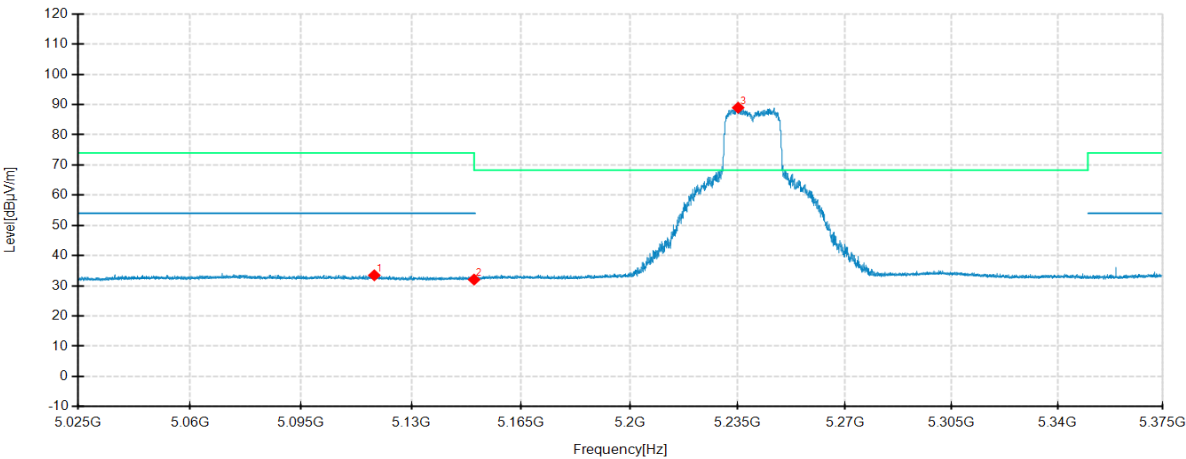
Tested By: Zhang Zishan

Detector mode: Average

Voltage: DC 12V

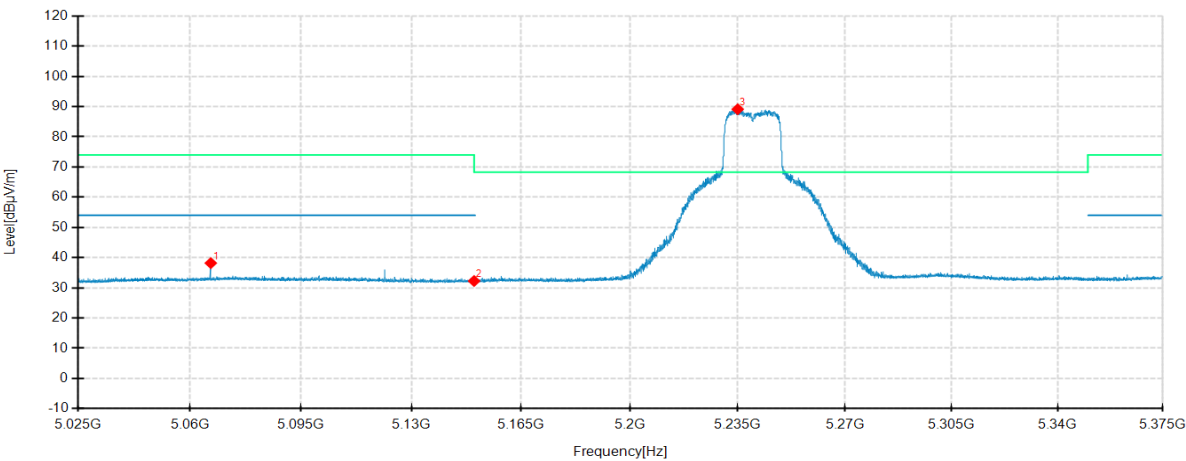
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5118.2050	37.14	33.49	-3.65	54.00	20.51	100	19	Horizontal	/
2	5150.0000	36.01	32.08	-3.93	54.00	21.92	200	135	Horizontal	/
3	5235.1050	92.44	88.98	-3.46	-	-	100	253	Horizontal	No limit
1	5066.5100	41.60	38.19	-3.41	54.00	15.81	200	115	Vertical	/
2	5150.0000	36.40	32.27	-4.13	54.00	21.73	100	81	Vertical	/
3	5234.9650	92.94	89.12	-3.82	-	-	100	107	Vertical	No limit

IEEE 802.11n HT20 mode ANT2

Highest Channel

Frequency 5745MHz

Environment: 24.3°C/56%RH/101.0kPa

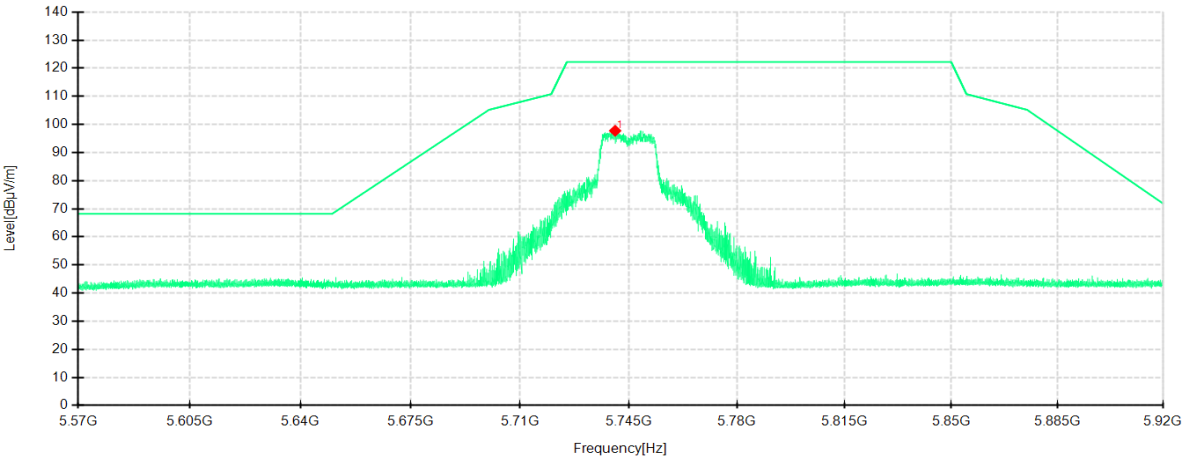
Tested By: Zhang Zishan

Detector mode: Peak

Voltage: DC 12V

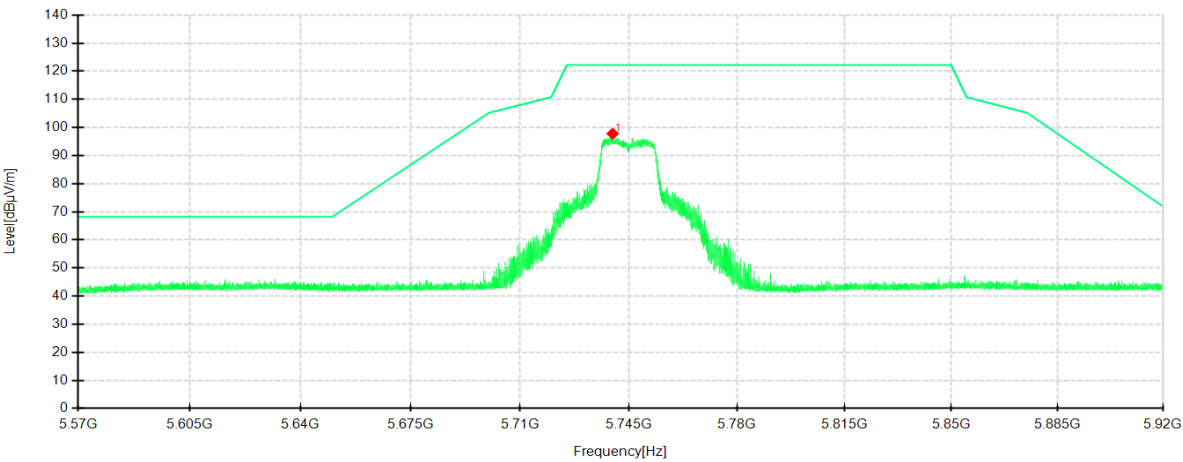
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5740.5725	100.39	97.75	-2.64	122.20	24.45	100	258	Horizontal	/
1	5739.7675	100.62	97.80	-2.82	122.20	24.40	100	115	Vertical	/

IEEE 802.11n HT20 mode ANT2

Highest Channel

Frequency 5825MHz

Environment: 24.3°C/56%RH/101.0kPa

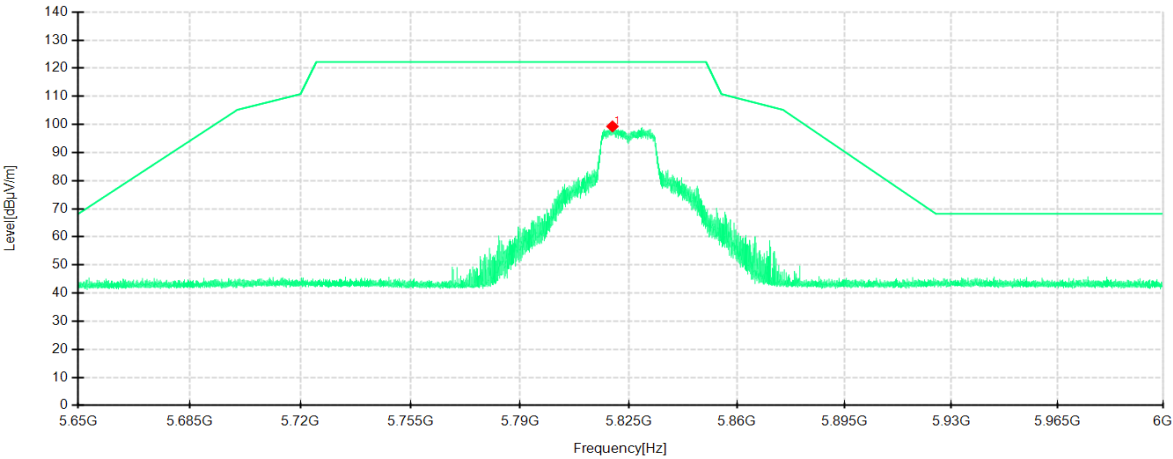
Tested By: Zhang Zishan

Detector mode: Peak

Voltage: DC 12V

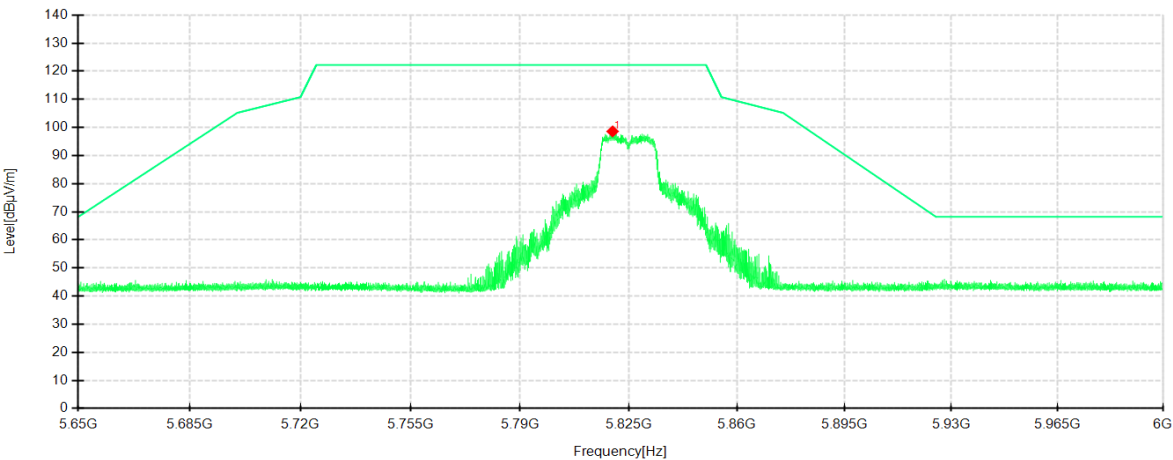
Date: 2024-05-10

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



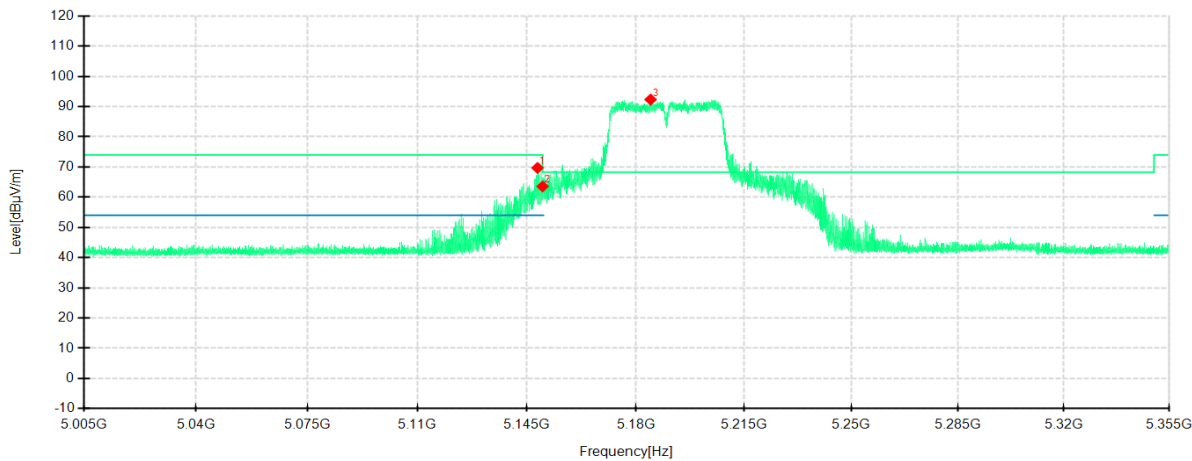
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5819.7500	101.73	99.31	-2.42	122.20	22.89	100	258	Horizontal	/
1	5819.7850	101.38	98.60	-2.78	122.20	23.60	200	114	Vertical	/

IEEE 802.11n HT40 mode ANT2

Lowest Channel

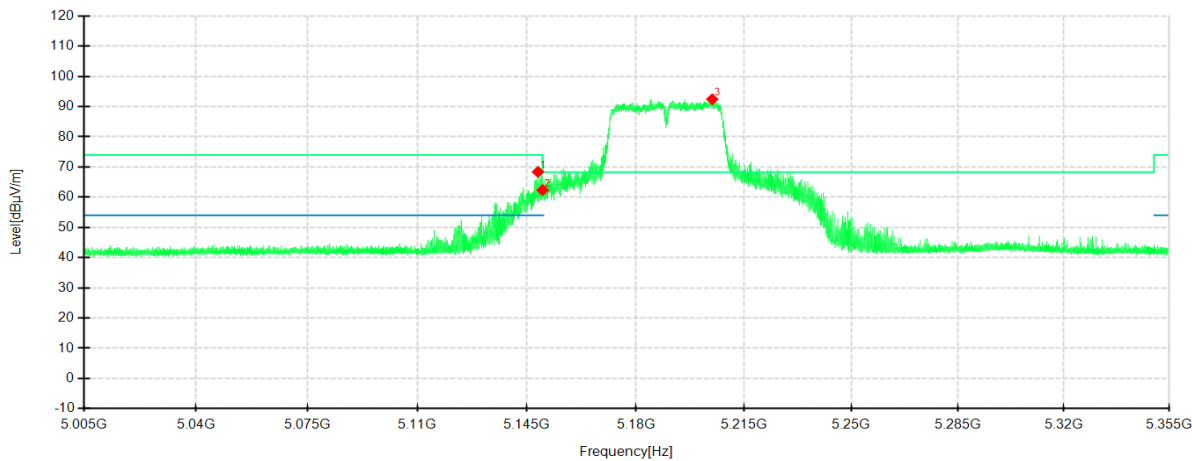
Frequency 5190MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Peak

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



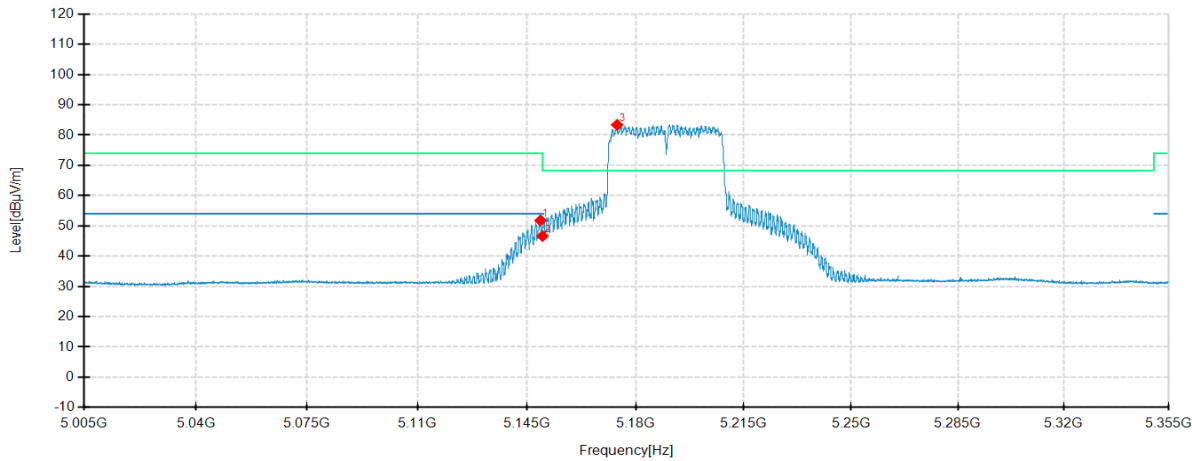
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5148.3775	73.63	69.71	-3.92	74.00	4.29	100	85	Horizontal	/
2	5150.0000	67.51	63.58	-3.93	68.30	4.72	100	85	Horizontal	/
3	5184.7950	95.67	92.34	-3.33	68.30	-24.04	100	85	Horizontal	No limit
1	5148.5350	72.51	68.40	-4.11	74.00	5.60	200	306	Vertical	/
2	5150.0000	66.48	62.35	-4.13	68.30	5.95	200	306	Vertical	/
3	5204.7450	95.87	92.44	-3.43	68.30	-24.14	200	290	Vertical	No limit

IEEE 802.11n HT40 mode ANT2

Lowest Channel

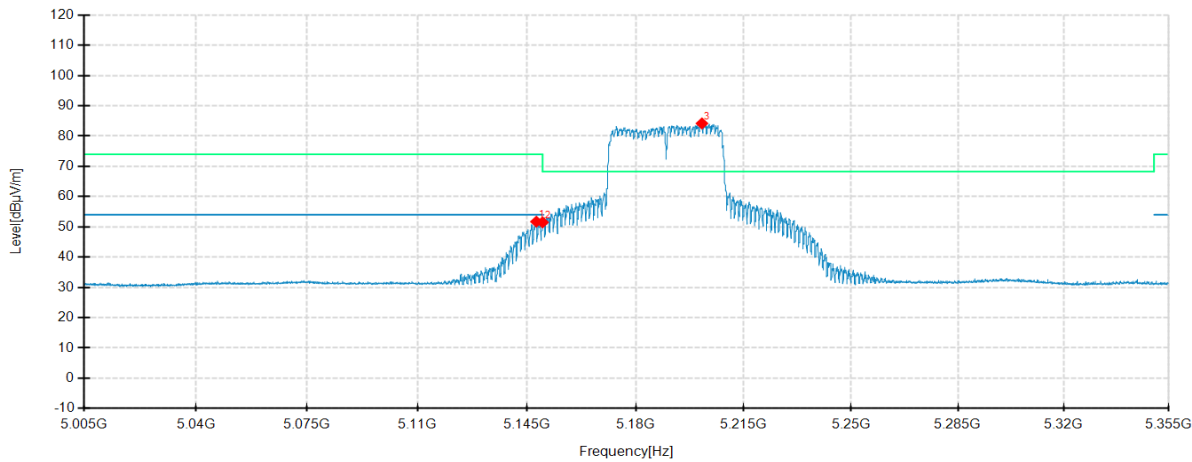
Frequency 5190MHz
Environment: 24.3°C/56%RH/101.0kPa
Tested By: Zhang Zishan
Detector mode: Average

Voltage: DC 12V
Date: 2024-05-10
Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Comment
1	5149.3400	55.72	51.79	-3.93	54.00	2.21	100	265	Horizontal	/
2	5150.0000	50.55	46.62	-3.93	54.00	7.38	200	157	Horizontal	/
3	5173.9800	86.91	83.39	-3.52	-	-	100	265	Horizontal	No limit
1	5148.0100	55.83	51.73	-4.10	54.00	2.27	100	129	Vertical	/
2	5150.0000	55.64	51.51	-4.13	54.00	2.49	100	104	Vertical	/
3	5201.4200	87.58	84.19	-3.39	-	-	100	129	Vertical	No limit