

Test Report

Verified code: 736204

Report No.: E202210283700-01-3

Customer: Huizhou Desay SV Automotive Co., Ltd.

Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone,
Huizhou, Guangdong, P.R. China

Sample Name: Infotainment Head Unit

Sample Model: IC2592/18

Receive Sample Date: Nov.07,2022

Test Date: Nov.07,2022 ~ Dec.22,2022

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

Test Result: Pass

Prepared by: 

Reviewed by: 

Approved by: 



GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2023-02-15

GUANGZHOU GRG METROLOGY & TEST 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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3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202210283700-01-3	Original Issue	2022-12-22

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
CFR 47, FCC Parts 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)	NA ¹
	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 ²

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

2.The antenna is IPEX internal PCB antenna.The max gain of antenna is 3.7dBi 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: Huizhou Desay SV Automotive Co., Ltd.
Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

2.2. MANUFACTURER

Name: Huizhou Desay SV Automotive Co., Ltd.
Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

2.3. FACTORY

Name: Huizhou Desay SV Automotive Co., Ltd.
Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

2.4. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Infotainment Head Unit
Product Model: IC2592/18
Adding Model: /
FCC ID: 2AEQTIC259218
Trade Name: DESAY SV
Power Supply: DC 12V
Frequency Band: U-NII-1: 5180 MHz~5240 MHz
U-NII-3: 5745 MHz~5825 MHz
Modulation Type: OFDM
Antenna Specification: IPEX internal PCB antenna
U-NII-1:
Antenna with 3.7dBi gain (Max.)
U-NII-3:
Antenna with 3.7dBi gain (Max.)
Number Of Channel: U-NII-1:
IEEE 802.11a / n HT20 / ac VHT20: 4 Channels
IEEE 802.11n HT40 / ac VHT40: 2 Channels
IEEE 802.11ac VHT80: 1 Channel
U-NII-3:
IEEE 802.11a / n HT20 / ac VHT20: 5 Channels
IEEE 802.11n HT40 / ac VHT40: 2 Channels
IEEE 802.11ac VHT80: 1 Channel
Channels Spacing: IEEE 802.11a: 20MHz
IEEE 802.11n HT20: 20MHz

IEEE 802.11n HT40: 40MHz
IEEE 802.11ac VHT20: 20MHz
IEEE 802.11ac VHT40: 40MHz
IEEE 802.11ac VHT80: 80MHz

Transmit Power: U-NII-1:
11.20dBm for IEEE 802.11a
9.29dBm for IEEE 802.11n HT20
9.69dBm for IEEE 802.11ac VHT20
7.45dBm for IEEE 802.11n HT40
7.83dBm for IEEE 802.11ac VHT40
7.29dBm for IEEE 802.11ac VHT80
U-NII-3:
14.02dBm for IEEE 802.11a
12.29dBm for IEEE 802.11n HT20
12.73dBm for IEEE 802.11ac VHT20
10.36dBm for IEEE 802.11n HT40
10.72dBm for IEEE 802.11ac VHT40
10.29dBm for IEEE 802.11ac VHT80

Temperature Range: -30℃~80℃

Hardware Version: 1.0.0

Software Version: 00.01.00

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E202210283700-01-0001, E202210283700-01-0003

Note: /

2.5. TEST OPERATION MODE

Mode No.	Description of the modes
1	5G Wi-Fi TX mode

2.6. CHANNEL LIST

Mode	Band	Channel	Frequency (MHz)	Mode	Band	Channel	Frequency (MHz)
IEEE 802.11a	U-NII-1	36	5180	IEEE 802.11n HT20	U-NII-1	36	5180
		40	5200			40	5200
		44	5220			44	5220
		48	5240			48	5240
	U-NII-3	149	5745		U-NII-3	149	5745
		153	5765			153	5765
		157	5785			157	5785
		161	5805			161	5805
		165	5825			165	5825

Mode	Band	Channel	Frequency (MHz)
IEEE 802.11ac VHT20	U-NII-1	36	5180
		40	5200
		44	5220
		48	5240
	U-NII-3	149	5745
		153	5765
		157	5785
		161	5805
		165	5825

Mode	Band	Channel	Frequency (MHz)	Mode	Band	Channel	Frequency (MHz)
IEEE 802.11n HT40	U-NII-1	38	5190	IEEE 802.11ac VHT40	U-NII-1	38	5190
		46	5230			46	5230
	U-NII-3	151	5755		U-NII-3	151	5755
		159	5795			159	5795

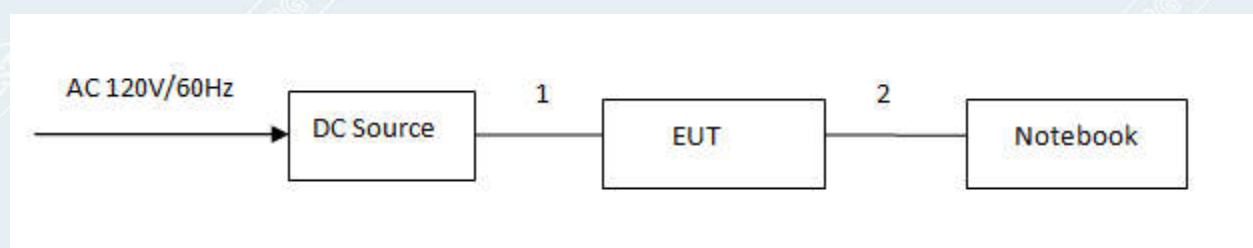
Mode	Band	Channel	Frequency (MHz)
IEEE 802.11ac VHT80	U-NII-1	42	5210
	U-NII-3	155	5775

2.7. LOCAL SUPPORTIVEINSTRUMENTS

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

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

2.8. CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version
ADB

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Power Setting:

Mode	Frequency (MHz)	Power Setting
IEEE 802.11a	5180	16
	5200	16
	5240	16
	5745	16
	5785	16
	5825	16

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT20	5180	14	IEEE 802.11ac VHT20	5180	12
	5200	14		5200	12
	5240	14		5240	12
	5745	14		5745	12
	5785	14		5785	12
	5825	14		5825	12

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5190	14	IEEE 802.11ac VHT40	5190	12
	5230	14		5230	12
	5755	14		5755	12
	5795	14		5795	12

Mode	Frequency (MHz)	Power Setting	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5210	12	5775	12

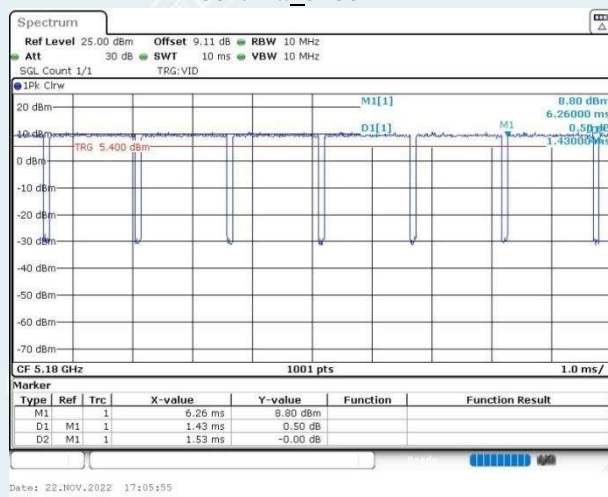
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2.9. DUTY CYCLE

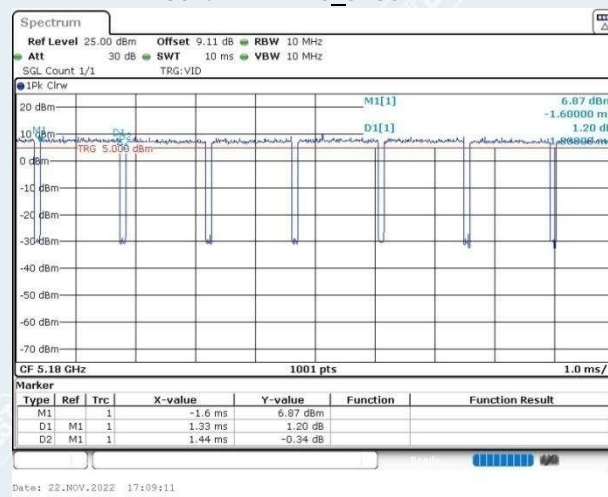
EUT Name	Infotainment Head Unit	Model	IC2592/18
Environmental Conditions	24.2°C/49%RH/101.0kPa	Test Voltage	DC 12V
Tested By	Yang Zhaoyun	Tested Date	2022-11-22

Duty Cycle Calculation						
Mode	Frequency[MHz]	ON Time(ms)	Total Time(ms)	Duty Cycle(%)	Duty Factor (dB)	T(s)
802.11a	5180	1.43	1.53	93.46	0.30	0.00143
802.11n HT20	5180	1.33	1.44	92.36	0.35	0.00133
802.11n HT40	5190	0.66	0.76	86.84	0.61	0.00066
802.11ac VHT20	5180	1.34	1.44	93.06	0.31	0.00134
802.11ac VHT40	5190	0.67	0.77	87.01	0.60	0.00067
802.11ac VHT80	5210	0.33	0.43	76.74	1.15	0.00033

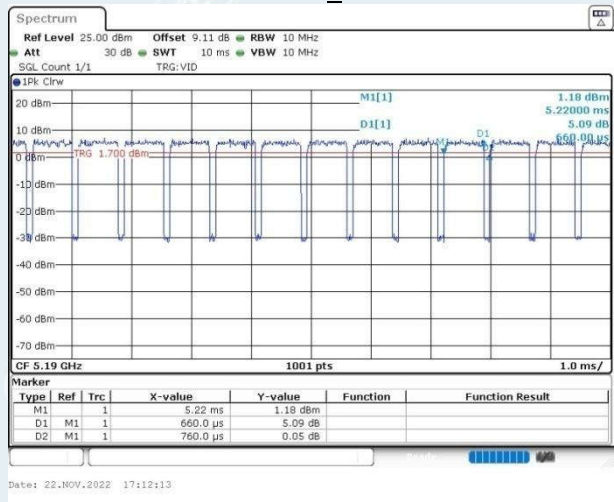
802.11a_5180MHz



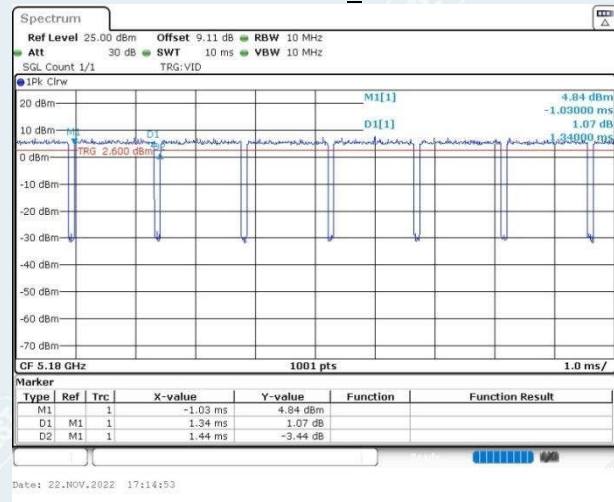
802.11n HT20_5180MHz



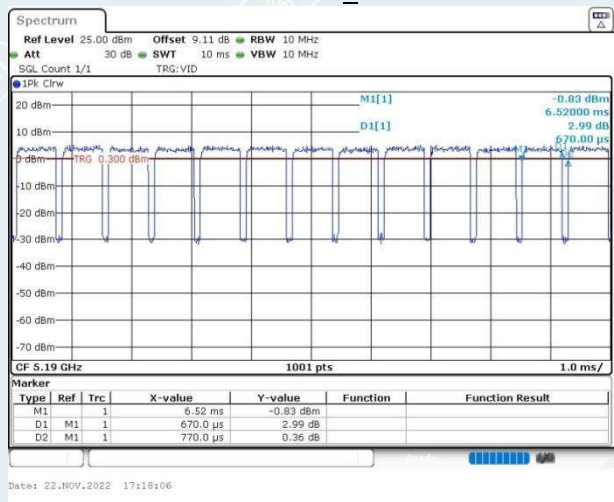
802.11n HT40_5190MHz



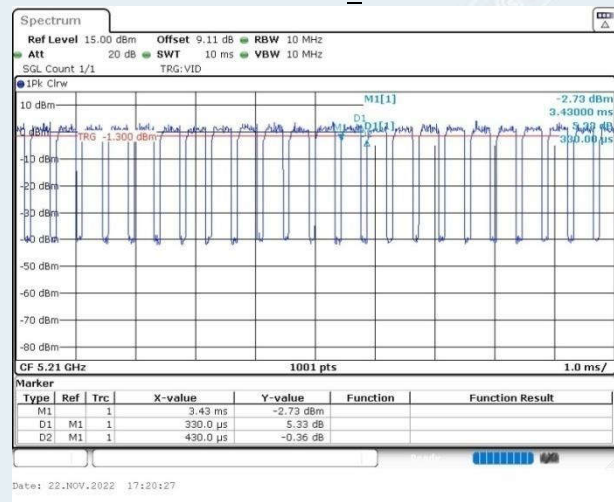
802.11ac VHT20_5180MHz



802.11ac VHT40_5190MHz



802.11ac VHT80_5210MHz



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3. LABORATORY AND ACCREDITATIONS

3.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test 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)

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,
U<http://www.grgtest.com>U

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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	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
		26GHz~40GHz	4.00dB
	Vertical	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
		26GHz~40GHz	4.00dB

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				
Test S/W	EZ	CCS-2ANT	/	/
Loop Antenna	TESEQ	HLA6121	52599	2023-04-02
Test Receiver	R&S	ESR7	102444	2023-09-02
Preamplifier	EMEC	EM330	I00426	2023-03-05
Bi-log Antenna	TESEQ	CBL6143A	26039	2024-10-23
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	2023-05-05
Amplifier	Tonscend	TAP184050	AP20E806071	2023-05-05
Amplifier	SHIRONG	DLNA-1G18G-G4	20200928005	2023-05-08
Test S/W	Tonscend	JS32-RE/2.5.2.4		
6DB Bandwidth &26DB Bandwidth& 99% Occupied bandwidth				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2023-07-24
Output Power				
Pulse power sensor	Anritsu	MA2411B	1126150	2023-03-01
Power Meter	Anritsu	NL2495A	1204003	2023-02-28
Frequency Stability				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Temperature& humidity chamber	HOSON	HS01060SDF	201013401	2023-08-19
DC Source	Keysight	E36131A	MY59001139	2023-10-24
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2023-07-24

Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2023-07-24

Note: The calibration interval of the above test instruments is 12 months except Bi-log Antenna, The calibration interval of the Bi-log Antenna is 24 months.

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5. RADIATED SPURIOUS 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.

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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: $E = -27 - 20\log 3 + 104.8 = 68.3$ (dB μ 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).

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5.3 TEST SETUP

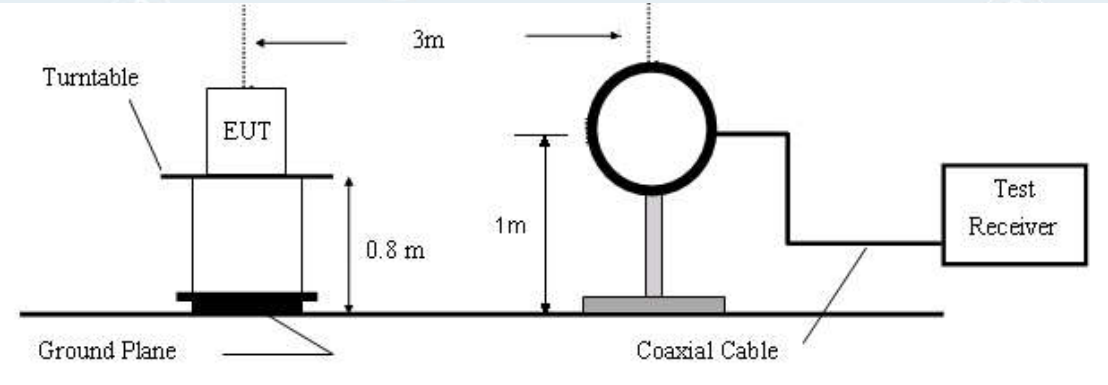


Figure 1. 9kHz to 30MHz radiated emissions test configuration

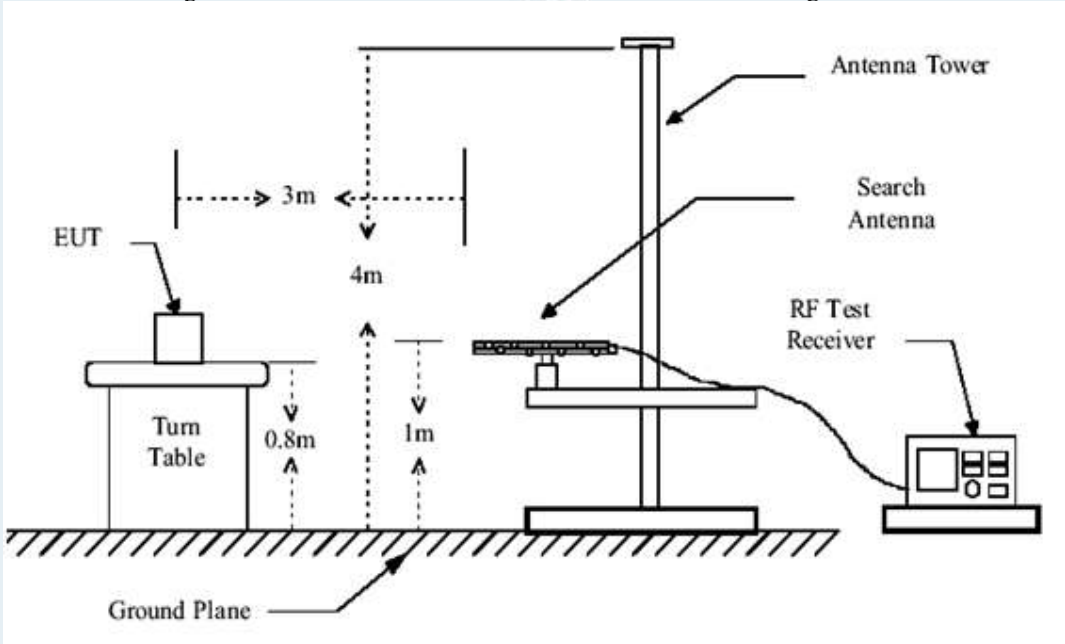


Figure 2. 30MHz to 1GHz radiated emissions test configuration

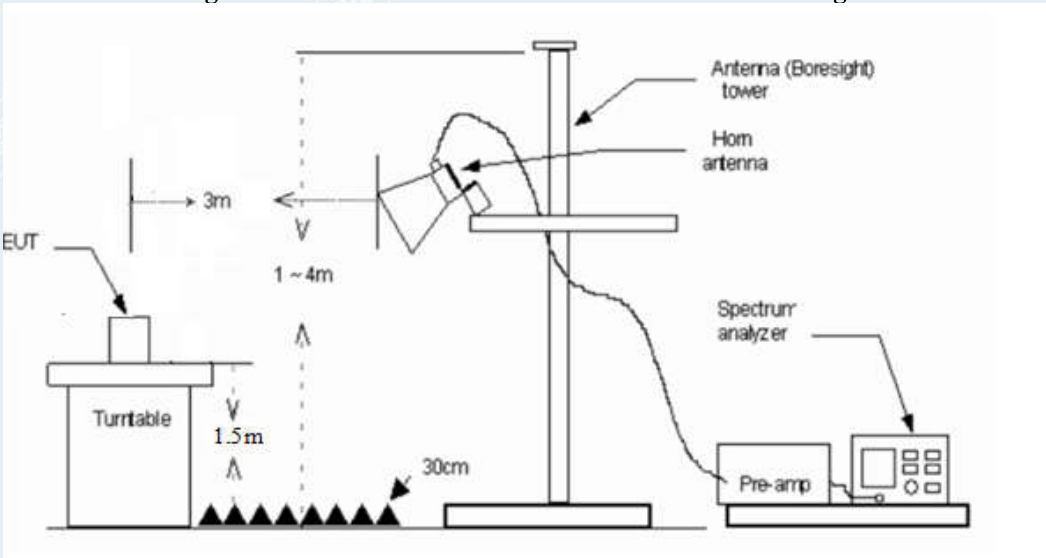


Figure 3. 1GHz-18GHz radiated emissions test configuration

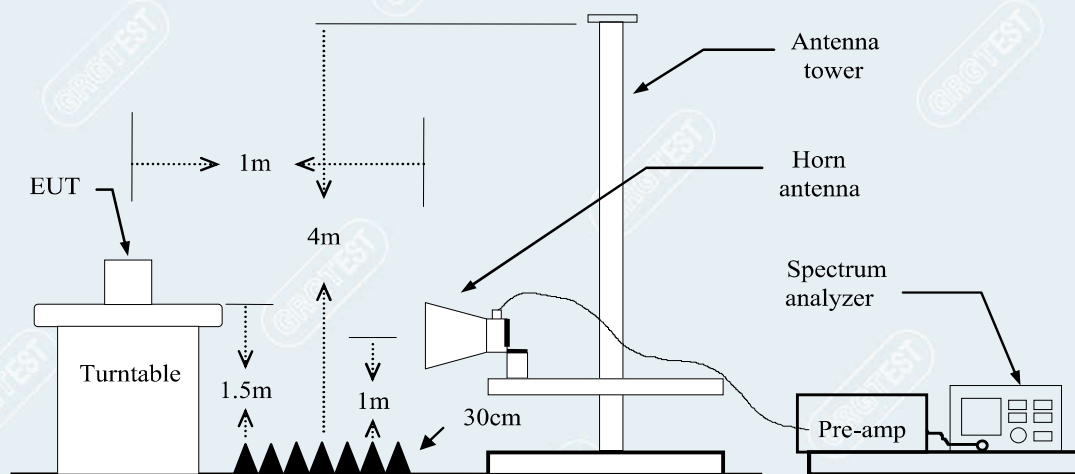


Figure 4. Above 18GHz radiated emissions test configuration

5.4 DATA SAMPLE

30MHz to 1GHz

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Pole
xxx	xxx	37.06	-15.48	21.58	40.00	-18.42	QP	Vertical

1GHz-18GHz

No.	Frequency (MHz)	Reading (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Remark	Pole
xxx	xxx	49.66	53.43	3.77	74.00	20.57	peak	Vertical
xxx	xxx	34.98	38.75	3.77	54.00	15.25	AVG	Vertical

Above 18GHz

No.	Frequency (MHz)	Reading (dBuV/m)	Level (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Remark	Pole
xxx	xxx	59.22	58.58	-0.64	83.54	24.96	peak	Vertical
xxx	xxx	53.01	52.37	-0.64	63.54	11.17	AVG	Vertical

Frequency (MHz) = Emission frequency in MHz

Ant.Pol. (H/V) = Antenna polarization

Reading (dBuV) = Uncorrected Analyzer / Receiver reading

Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain

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

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading

QP = Quasi-peak Reading

AVG = Average Reading

5.5 TEST RESULTS

Below 1GHz

All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11a 5745MHz)

Mode: Mode 1/ IEEE 802.11a

Temp. /Hum.:21.1℃/49%RH/101.0kPa

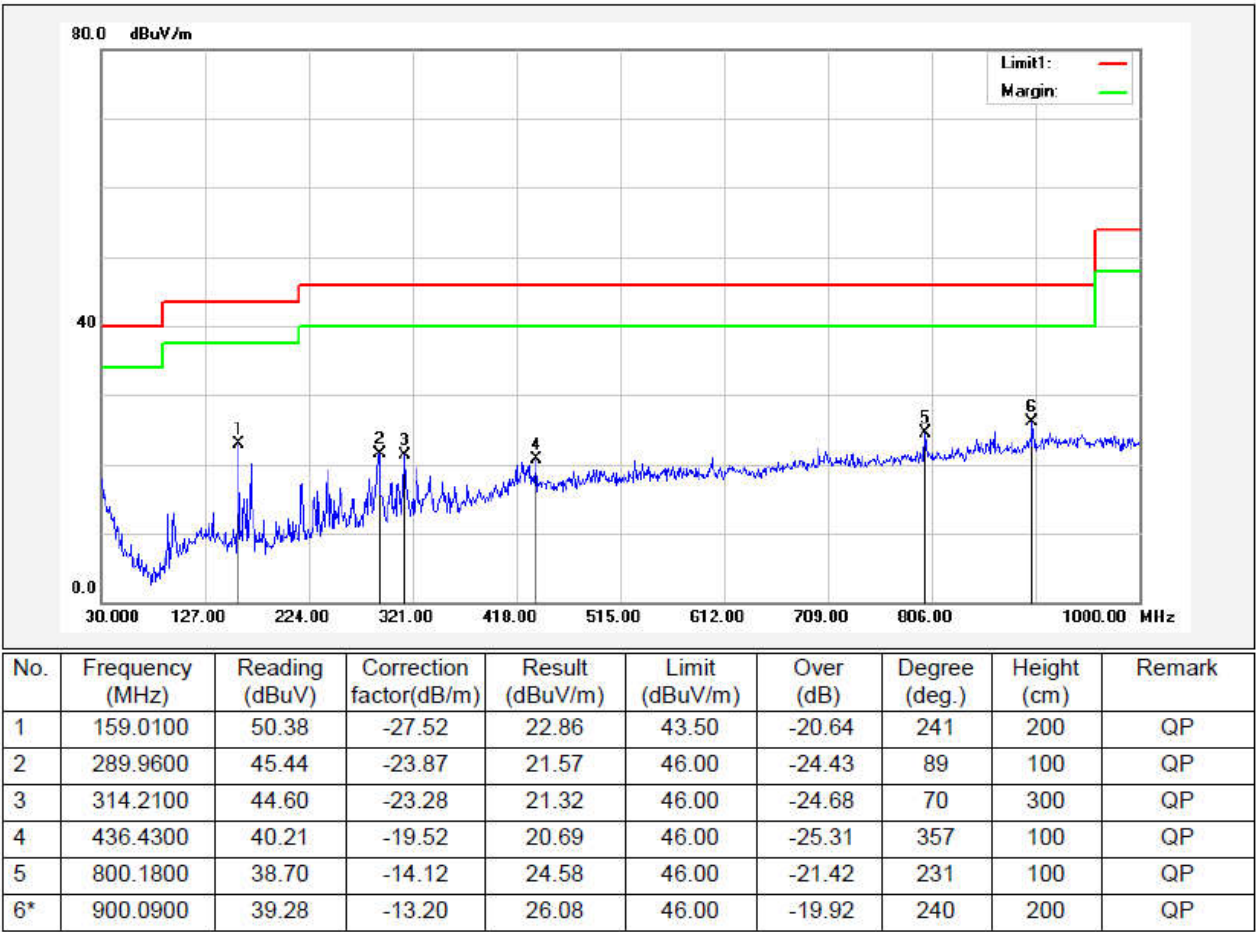
Test Engineer: Huang Xinlong

Frequency:5745MHz

Power supply: DC 12V

Test Date: 2022-12-07

Polarity: Horizontal



———— The following blanks ————

Mode: Mode 1/ IEEE 802.11a

Temp. /Hum.:21.1℃/49%RH/101.0kPa

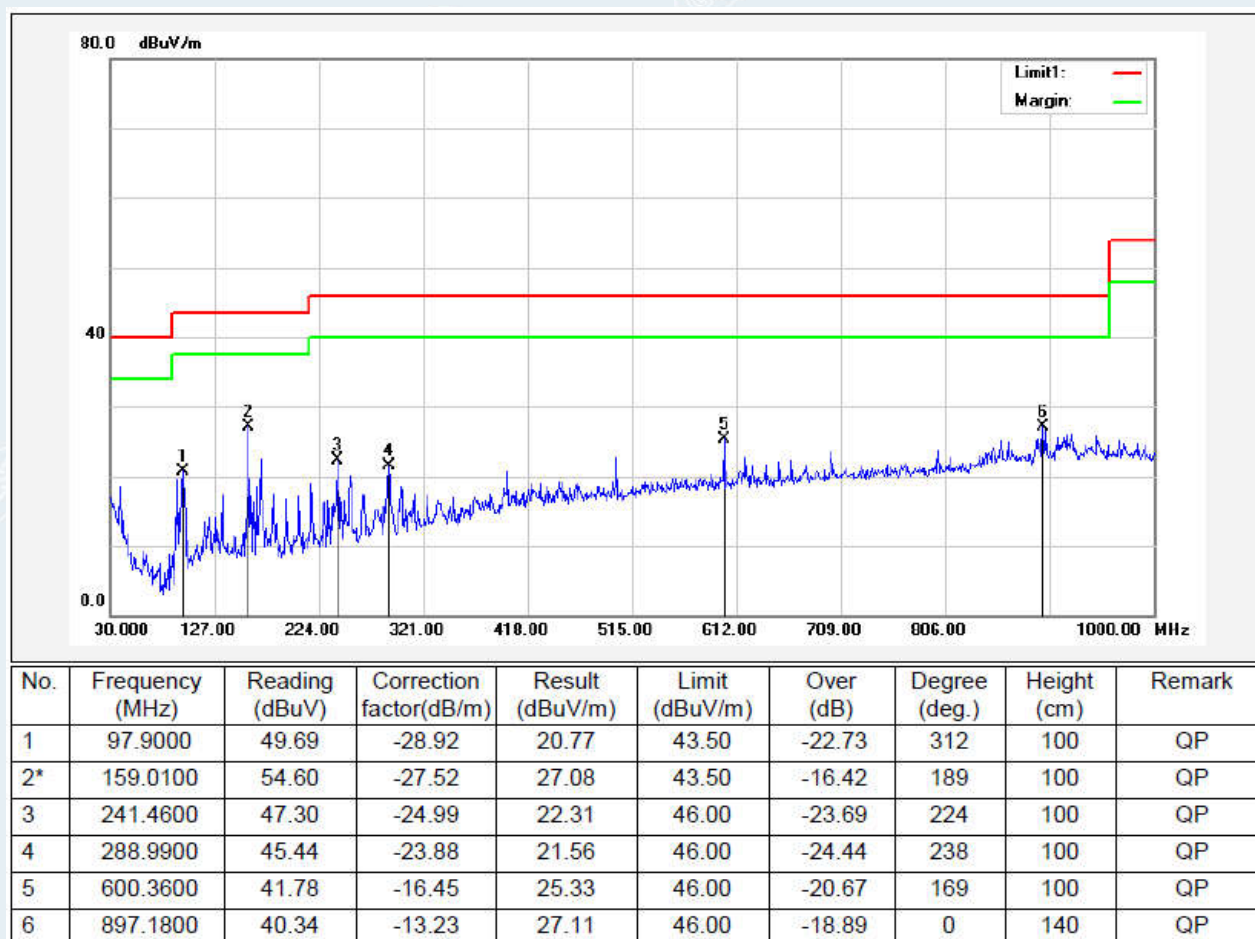
Test Engineer: Huang Xinlong

Frequency:5745MHz

Power supply: DC 12V

Test Date: 2022-12-07

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 120 kHz.

1GHz-18GHz

All models were pretested and just record the worst case of 20MHz/40MHz/80MHz bandwidth.

Mode: Mode 1/ IEEE 802.11a

Environment: 22.9°C/58%RH/101.0kPa

Test Engineer:Zhang Zishan

Frequency:5180MHz

Power supply:DC 12V

Test Date:2022-12-03

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1218.1523	64.64	42.56	-22.08	74.00	31.44	100	334	Horizontal
2	1600.7001	66.94	45.72	-21.22	74.00	28.28	100	31	Horizontal
3	2654.5818	63.13	46.03	-17.10	74.00	27.97	100	11	Horizontal
4	3199.65	60.59	45.98	-14.61	74.00	28.02	100	129	Horizontal
5	3987.2484	60.45	47.94	-12.51	74.00	26.06	100	325	Horizontal
6	17917.4897	37.75	47.18	9.43	74.00	26.82	200	159	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	1163.1454	68.37	45.20	-23.17	74.00	28.80	100	0	Vertical
2	1329.4162	66.66	45.33	-21.33	74.00	28.67	100	11	Vertical
3	1663.833	66.91	45.95	-20.96	74.00	28.05	200	62	Vertical
4	2418.9274	63.07	45.92	-17.15	74.00	28.08	100	179	Vertical
5	3142.7678	61.95	46.67	-15.28	74.00	27.33	100	238	Vertical
6	17624.9531	36.58	45.77	9.19	74.00	27.73	100	81	Vertical

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

Mode: Mode 1/ IEEE 802.11a
Environment: 22.9°C/58%RH/101.0kPa
Test Engineer:Zhang Zishan

Frequency:5200MHz
Power supply:DC 12V
Test Date:2022-12-03

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1330.0413	66.95	45.19	-21.76	74.00	28.81	200	111	Horizontal
2	1599.4499	71.71	50.50	-21.21	74.00	28.00	100	50	Horizontal
3	2660.2075	63.24	46.11	-17.13	74.00	27.89	100	29	Horizontal
4	3199.65	59.88	45.27	-14.61	74.00	28.73	100	29	Horizontal
5	3983.4979	59.93	47.40	-12.53	74.00	26.60	100	29	Horizontal
6	17812.4766	35.73	45.81	10.08	74.00	28.19	100	314	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	1166.2708	69.07	45.84	-23.23	74.00	28.16	100	31	Vertical
2	1600.075	68.32	45.91	-22.41	74.00	28.09	100	31	Vertical
3	2590.1988	62.80	45.71	-17.09	74.00	28.29	100	110	Vertical
4	3200.275	62.02	46.71	-15.31	74.00	27.29	200	80	Vertical
5	3989.1236	59.36	47.17	-12.19	74.00	26.83	100	40	Vertical
6	17987.9985	33.20	46.20	13.00	74.00	27.80	200	168	Vertical

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