
FCC Test Report

Report No.: AGC08090230108FE04

FCC ID : 2AEVN0754A3023
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : RC AIRCRAFT
BRAND NAME : N/A
MODEL NAME : Please see the page 5
APPLICANT : Guangdong ATTOP Technology Co., Ltd
DATE OF ISSUE : Mar. 28, 2023
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 28, 2023	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Guangdong ATTOP Technology Co., Ltd
Address	Linghai Industry Zone, Laimei Road, Chenghai District, Shantou, Guangdong, China
Manufacturer	Guangdong ATTOP Technology Co., Ltd
Address	Linghai Industry Zone, Laimei Road, Chenghai District, Shantou, Guangdong, China
Product Designation	RC AIRCRAFT
Brand Name	N/A
Test Model	A30
Series Model	Please see the page 6.
Declaration of Difference	All the series models are the same as the test model except for the model names and the color of appearance.
Date of receipt of test item	Mar. 22, 2023
Date of test	Mar. 22, 2023 to Mar. 28, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By



Alan Duan
(Project Engineer)

Mar. 28, 2023

Reviewed By



Calvin Liu
(Reviewer)

Mar. 28, 2023

Approved By



Max Zhang
(Authorized Officer)

Mar. 28, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2440Hz to 2479Hz
Maximum field strength	92.09dBuV/m(average)@3m
Modulation	GFSK
Number of channels	40
Antenna Gain	2dBi
Antenna Designation	Monopole Antenna (Met 15.203 Antenna requirement)
Hardware Version	YC-A30TX01-3021
Software Version	V1.2
Power Supply	DC 4.5V by battery

Series Model	X-PACK 1, X-PACK PLUS, X-PACK PRO, X-PACK GPS, X-PACK NANO, X-PACK 2, X-PACK 3, X-PACK 5, X-PACK 6, X-PACK 7, X-PACK 8, X-PACK 9, X-PACK 10, X-PACK 16, X-PACK 17, X-PACK 18, X-PACK 19, X-PACK 20, W, W PRO, W PRO E, W PRO S, PRO 56, PRO 66, PRO 76, PRO 86, W2, W3, W5, W6, W7, W8, W8 PRO, W9, W9 PRO, W10, W11, W12, W13, W15, W16, W17, W18, W19, W20, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F15, F16, F17, F18, F19, F20, A1, A2, A3, A5, A6, A7, A8, A9, A10, A11, A12, A13, A15, A16, A17, A19, A20, A21, A22, A23, A25, A26, A27, A28, A29, AO10, AO11, AO12, AO13, AO15, AO16, AO17, AO18, AO19, AO30, AO31, AO32, AO33, AO35, AO36, AO37, AO38, AO39, G01, G02, G03, G05, G06, G07, G08, G09, G10, G20, G30, G50, G60, G70, G80, G90, A31
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2.2. TABLE OF CARRIER FREQUENCY

Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2440	21	2460
2	2441	22	2461
3	2442	23	2462
4	2443	24	2463
5	2444	25	2464
6	2445	26	2465
7	2446	27	2466
8	2447	28	2467
9	2448	29	2468
10	2449	30	2469
11	2450	31	2470
12	2451	32	2471
13	2452	33	2472
14	2453	34	2473
15	2454	35	2474
16	2455	36	2475
17	2456	37	2476
18	2457	38	2477
19	2458	39	2478
20	2459	40	2479

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

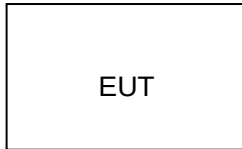
NO.	TEST MODE DESCRIPTION
1	Low channel TX_2440MHz_GFSK
2	Middle channel TX_2462MHz_GFSK
3	High channel TX_2479MHz_GFSK
Note: 1. Only the result of the worst case was recorded in the report, if no other cases. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3. The EUT adjusts the frequency through the button. 4. For battery operated equipment, the equipment tests are performed using a new battery.	

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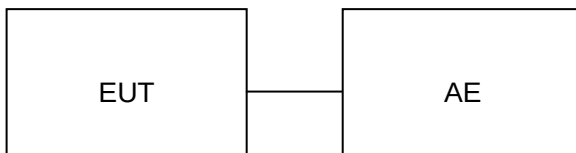
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	RC AIRCRAFT	A30	2AEVN0754A3023	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Aug. 04, 2022	Aug. 03, 2023
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Apr. 28, 2021	Apr. 27, 2023
Test software	FARA	EZ-EMC	Ver.RA-03A	N/A	N/A
Test software	Tonscend	JS32-RE	Ver.2.5	N/A	N/A

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7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark:

- (1) Emission level $\text{dB } \mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/10Hz for Average

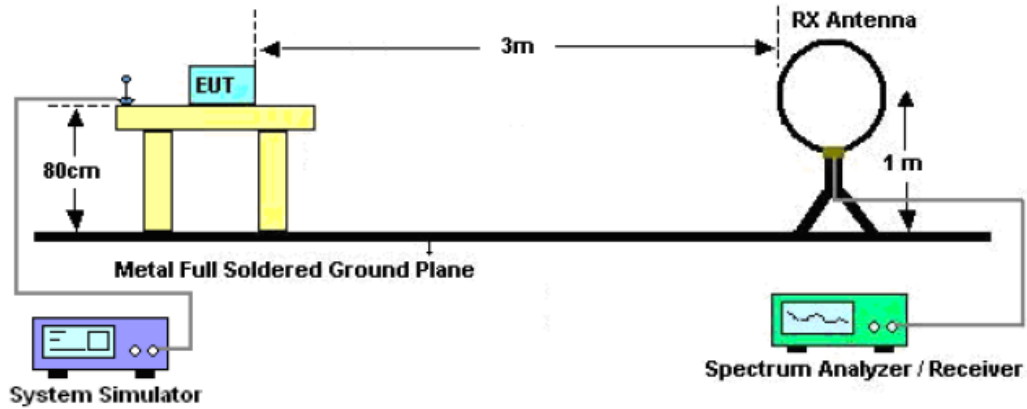
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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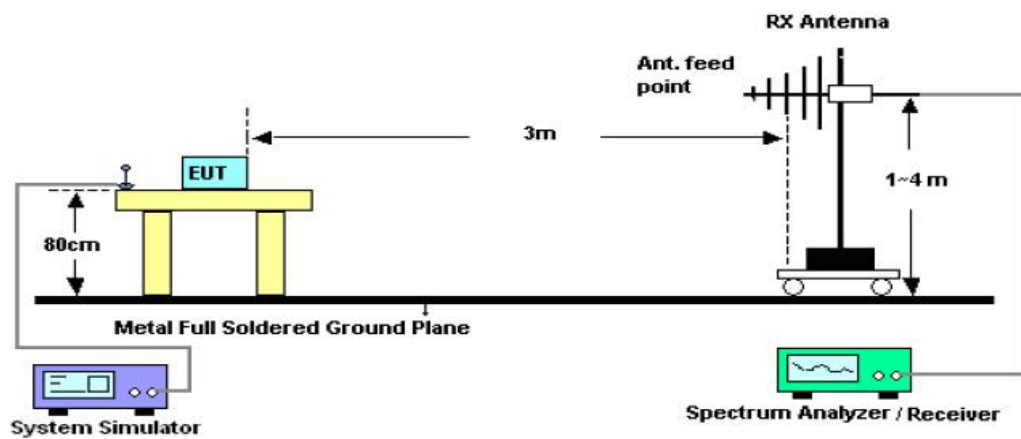
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7.3. TEST SETUP

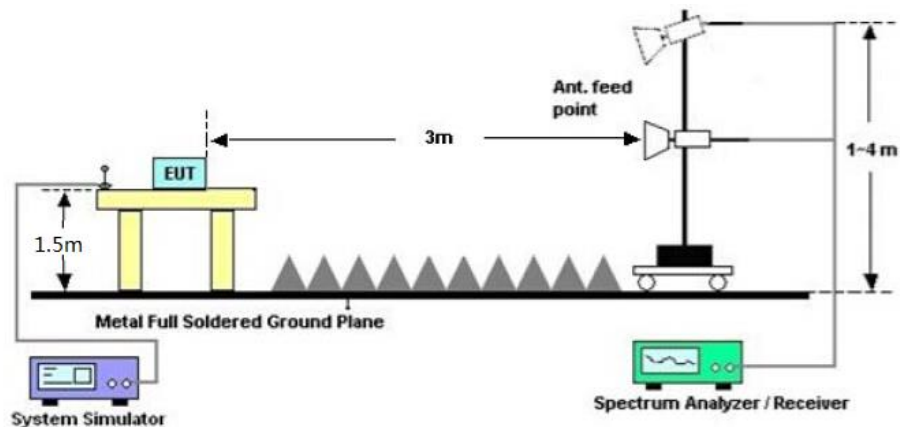
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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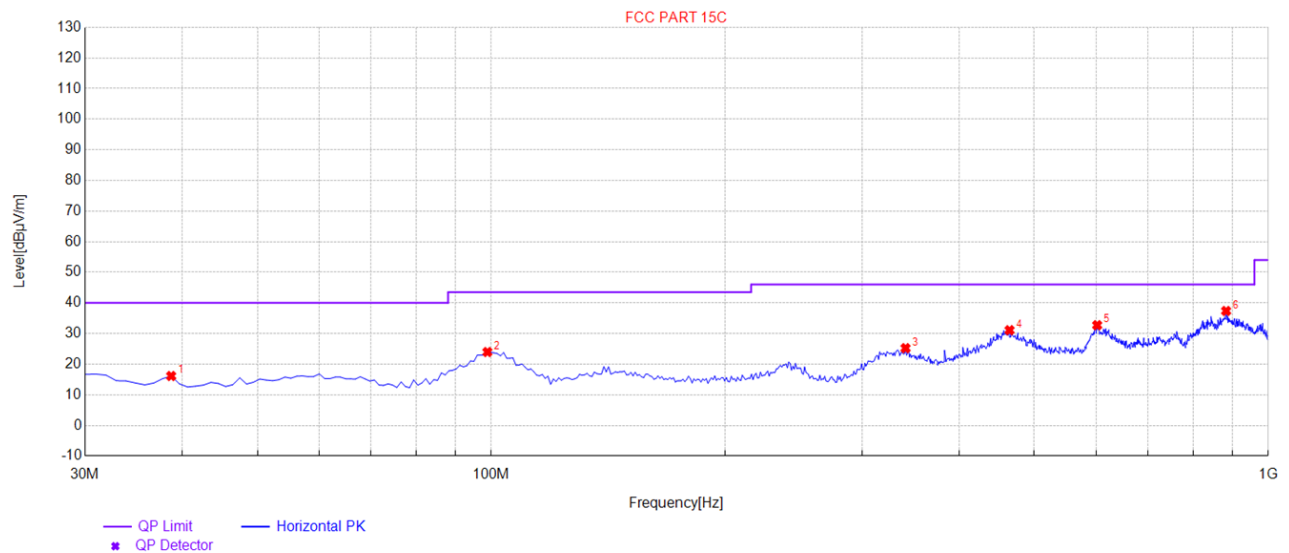
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

RADIATED EMISSION 30MHZ- 1GHZ

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5°C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal

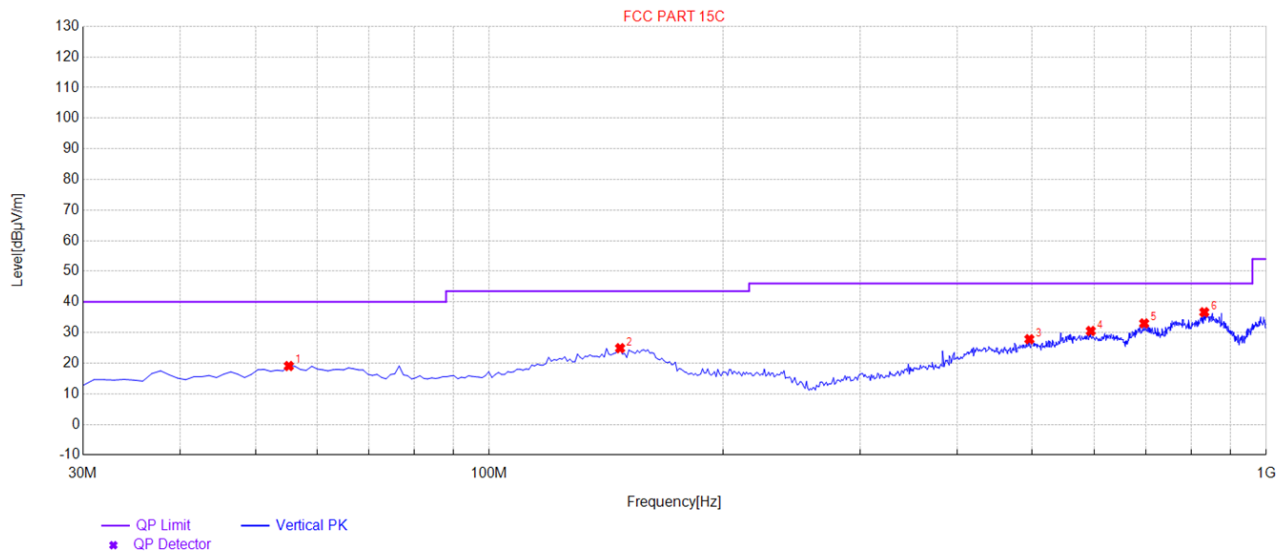


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.73	16.13	9.69	40.00	23.87	100	180	Horizontal
2	98.87	23.96	20.81	43.50	19.54	100	290	Horizontal
3	341.37	25.21	20.74	46.00	20.79	100	120	Horizontal
4	464.56	31.08	27.21	46.00	14.92	100	300	Horizontal
5	602.3	32.72	28.64	46.00	13.28	100	240	Horizontal
6	882.63	37.36	33.07	46.00	8.64	100	100	Horizontal

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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5°C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	55.22	19.06	14.15	40.00	20.94	100	290	Vertical
2	147.37	24.88	20.62	43.50	18.62	100	330	Vertical
3	495.6	27.82	23.58	46.00	18.18	100	170	Vertical
4	594.54	30.50	25.72	46.00	15.50	100	340	Vertical
5	696.39	32.98	28.85	46.00	13.02	100	260	Vertical
6	832.19	36.62	32.15	46.00	9.38	100	60	Vertical

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

FIELD STRENGTH OF FUNDAMENTAL

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5°C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Modulation	GFSK	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2440	46.68	49.05	95.73	114.00	-18.27	peak
2440	43.04	49.05	92.09	94.00	-1.91	AVG
2462	34.40	49.12	83.52	114.00	-30.48	peak
2462	33.59	49.12	82.71	94.00	-11.29	AVG
2479	46.13	49.25	95.38	114.00	-18.62	peak
2479	41.96	49.25	91.21	94.00	-2.79	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2440	44.37	49.05	94.04	114.00	-19.96	peak
2440	29.51	49.05	90.25	94.00	-3.75	AVG
2462	45.31	49.12	83.64	114.00	-30.36	peak
2462	30.11	49.12	81.74	94.00	-12.27	AVG
2479	40.78	49.25	92.27	114.00	-21.73	peak
2479	30.48	49.25	88.68	94.00	-5.32	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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RADIATED EMISSION ABOVE 1GHZ

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880	48.11	3.76	51.87	74.00	-22.13	peak
4880	43.25	3.76	47.01	54.00	-6.99	AVG
7320	42.27	8.17	50.44	74.00	-23.56	peak
7320	38.78	8.17	46.95	54.00	-7.05	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880	47.63	3.76	51.39	74.00	-22.61	peak
4880	43.36	3.76	47.12	54.00	-6.88	AVG
7320	42.28	8.17	50.45	74.00	-23.55	peak
7320	37.72	8.17	45.89	54.00	-8.11	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	47.45	3.78	51.23	74.00	-22.77	peak
4924	43.73	3.78	47.51	54.00	-6.49	AVG
7386	43.32	8.23	51.55	74.00	-22.45	peak
7386	39.26	8.23	47.49	54.00	-6.51	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	48.88	3.78	52.66	74.00	-21.34	peak
4924	42.94	3.78	46.72	54.00	-7.28	AVG
7386	44.52	8.23	52.75	74.00	-21.25	peak
7386	39.29	8.23	47.52	54.00	-6.48	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4958	47.26	3.81	51.07	74.00	-22.93	peak
4958	44.35	3.81	48.16	54.00	-5.84	AVG
7437	42.21	8.27	50.48	74.00	-23.52	peak
7437	38.72	8.27	46.99	54.00	-7.01	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4958	48.35	3.81	52.16	74.00	-21.84	peak
4958	43.56	3.81	47.37	54.00	-6.63	AVG
7437	44.47	8.27	52.74	74.00	-21.26	peak
7437	40.22	8.27	48.49	54.00	-5.51	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note: The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

8. BAND EDGE EMISSION

8.1 TEST LIMIT

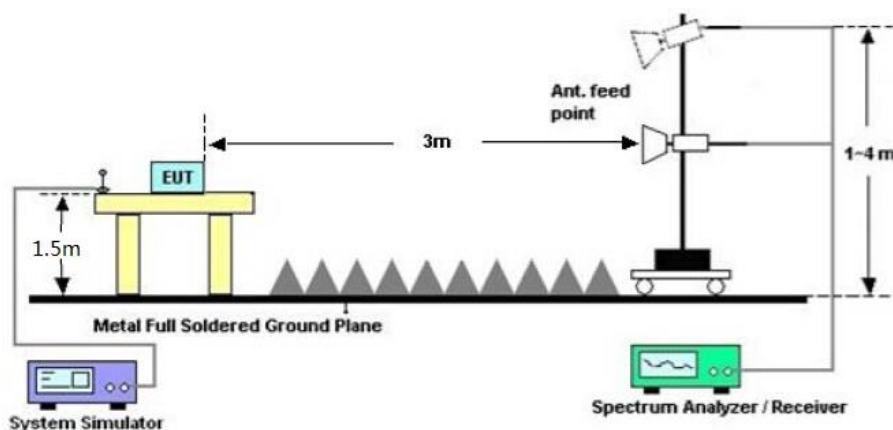
Frequency Band	Limit of the Field Strength (dB μ V/m)	
	Peak	Average
$f \leq 2390\text{MHz}$	74	54
$f \geq 2483.5\text{MHz}$	74	54

8.2. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.3 TEST SETUP

RADIATED EMISSION TEST SETUP



8.4 TEST RESULT

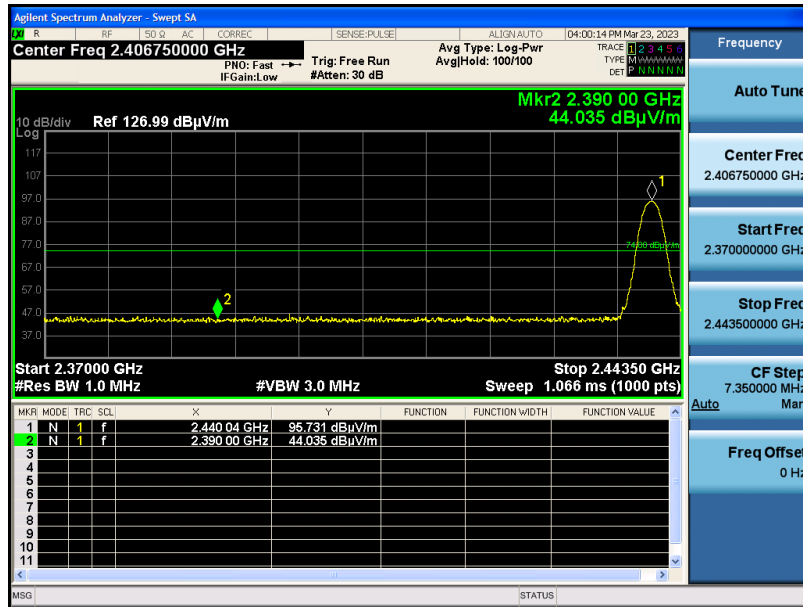
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

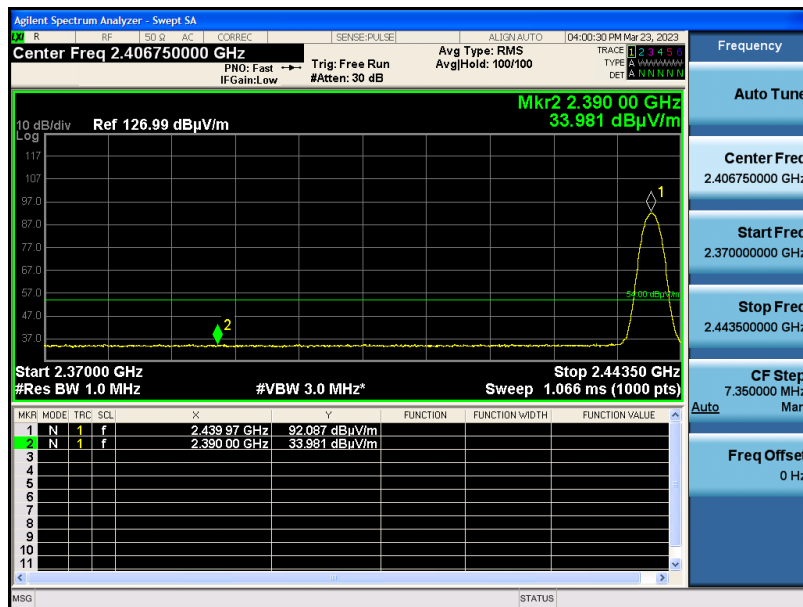
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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Horizontal

Peak Value



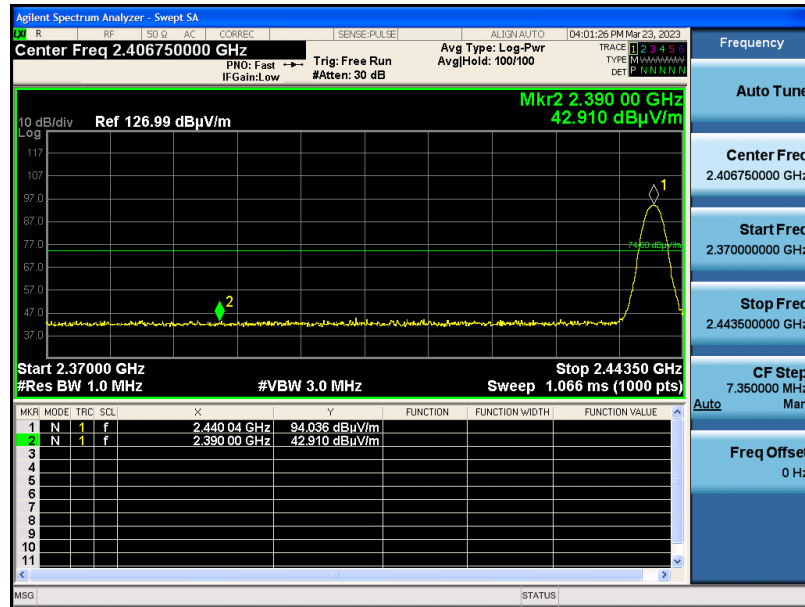
Average Value



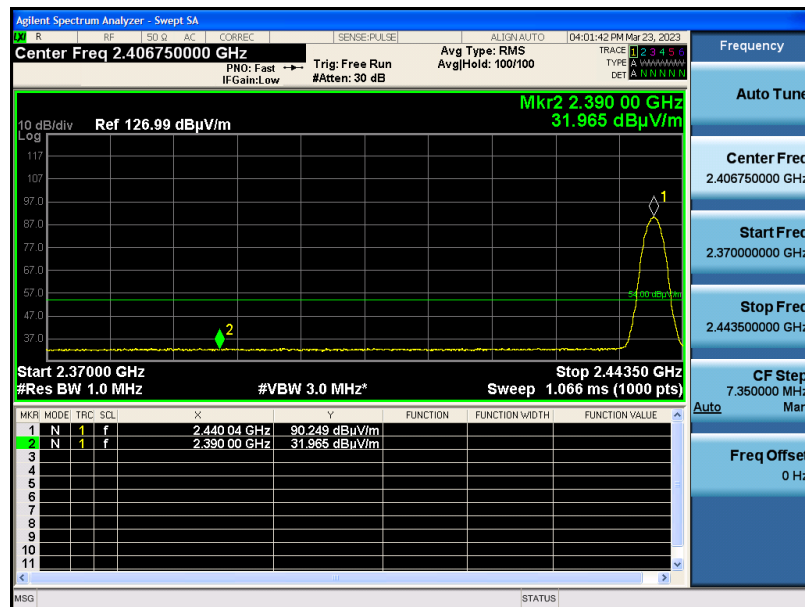
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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Polarization	Vertical

Peak Value



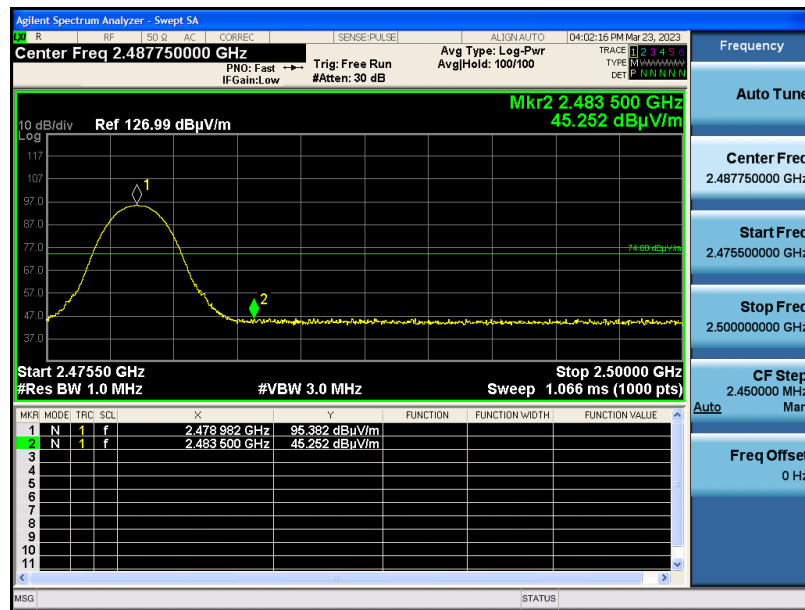
Average Value



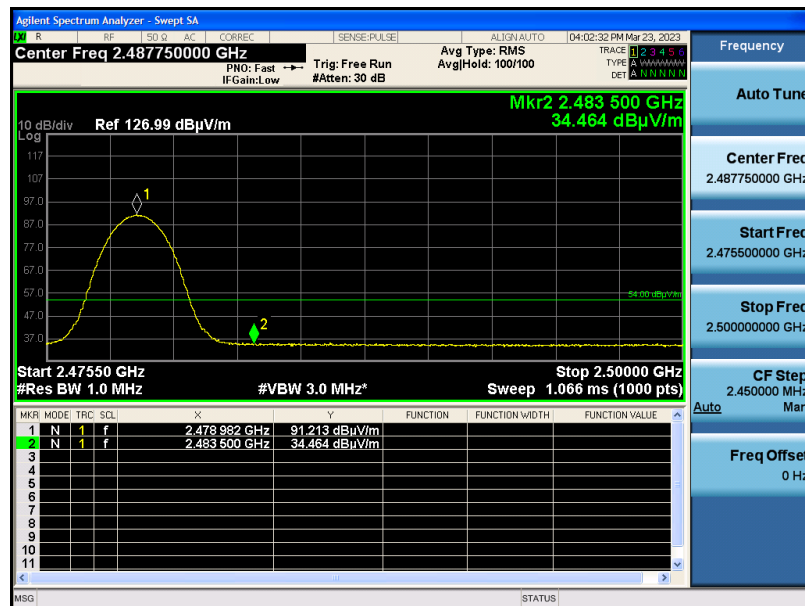
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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Horizontal

Peak Value



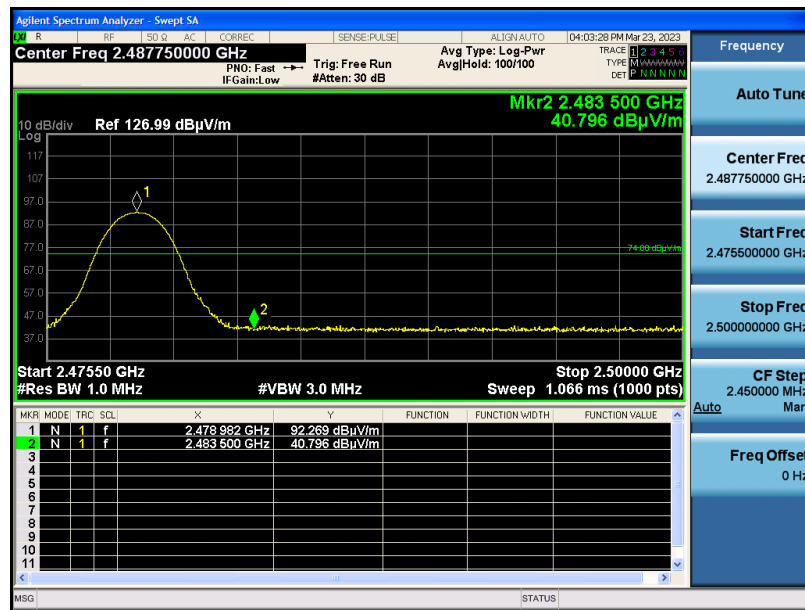
Average Value



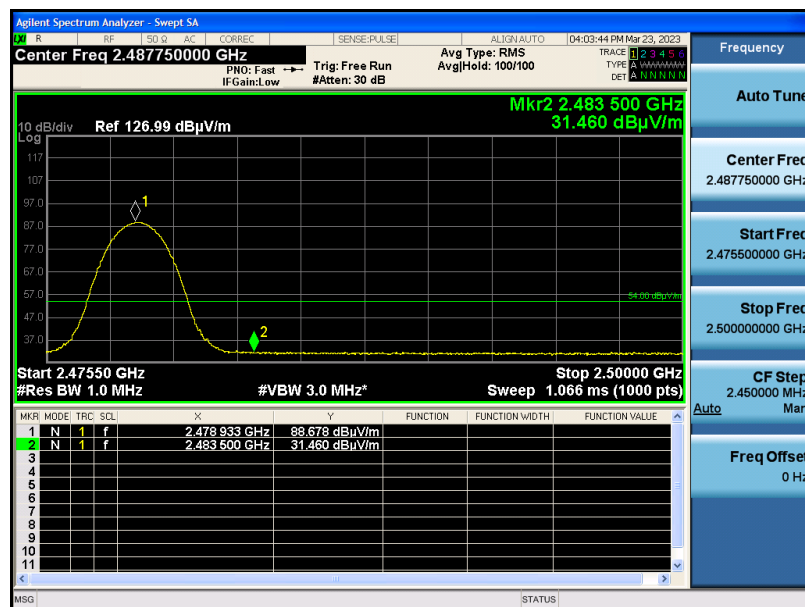
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EUT	RC AIRCRAFT	Model Name	A30
Temperature	23.5° C	Relative Humidity	53.2%
Pressure	985kPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Polarization	Vertical

Peak Value



Average Value



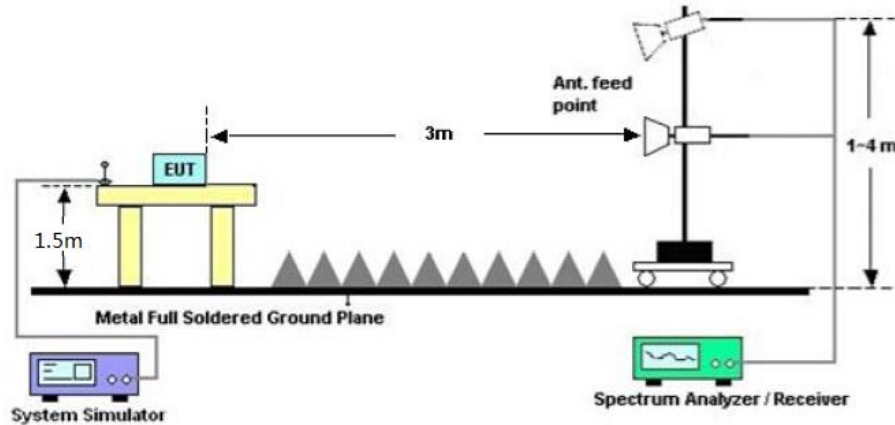
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9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30 KHz, VBW $\geq 1 \times$ RBW.
3. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



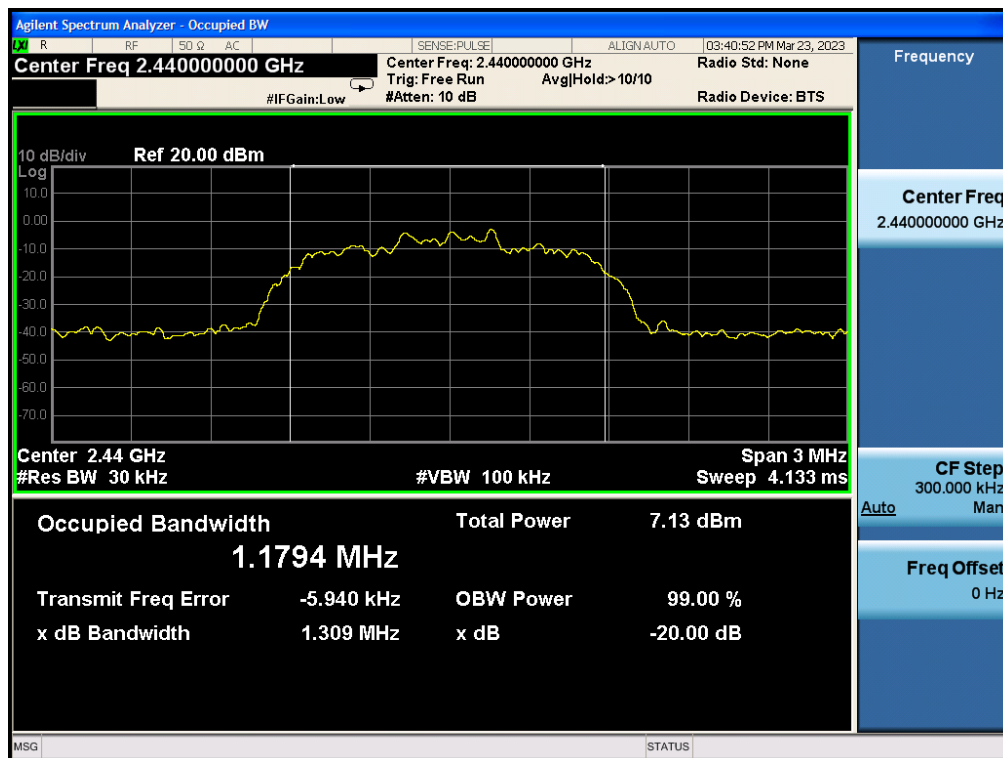
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9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

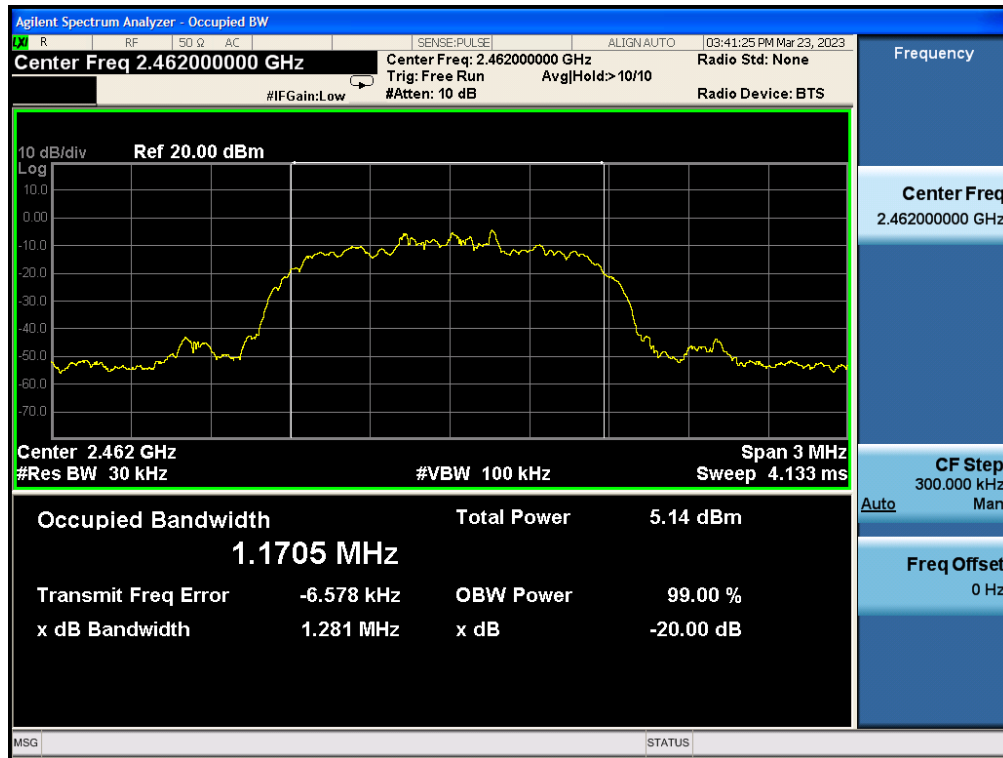
Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2440	1.309	1.1794	PASS
2462	1.281	1.1705	PASS
2479	1.285	1.1722	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

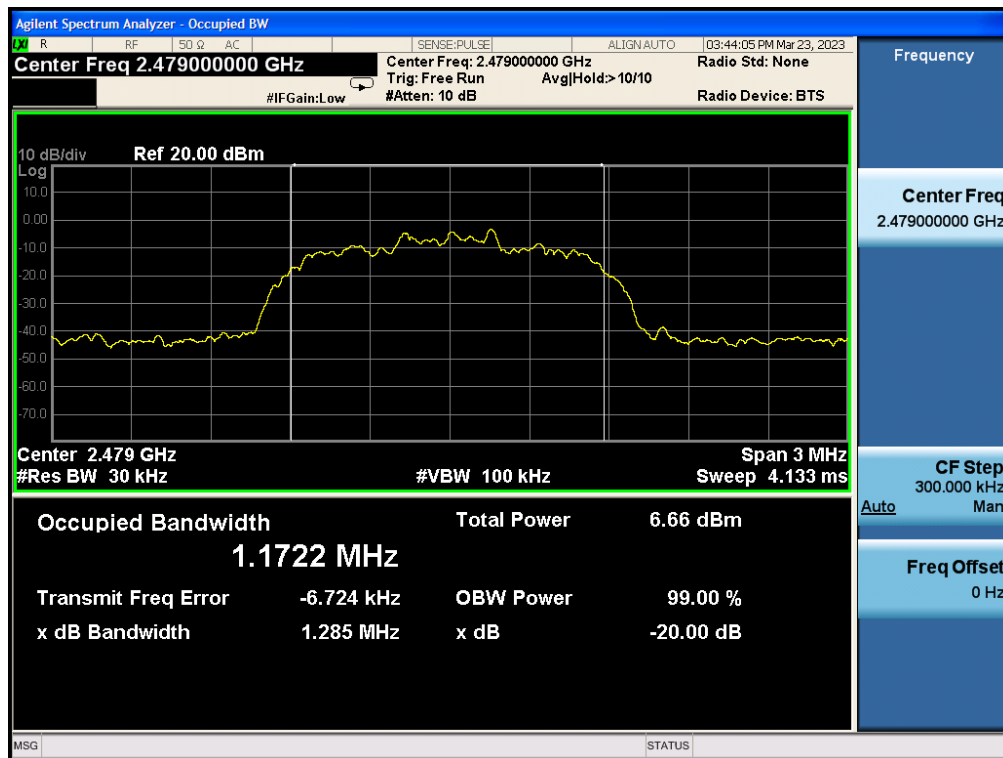


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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10. FCC LINE CONDUCTED EMISSION TEST

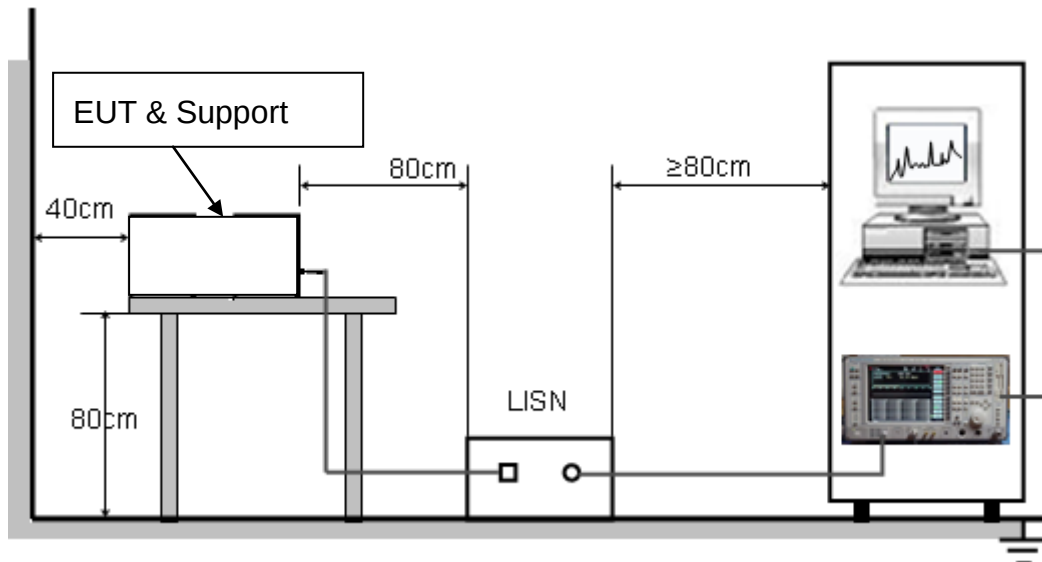
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

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

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120VV/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC08090230108AP02

APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC08090230108AP03

-----END OF REPORT-----

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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>