

Report No.: AGC09881200801FE03

Page 41 of 66

# 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 1MHz/3MHz for Peak, 1MHz/3MHz for Average

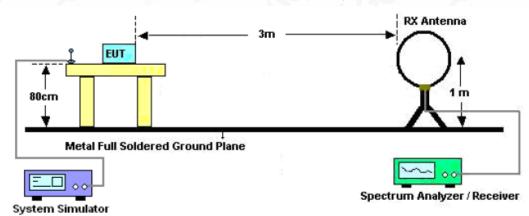
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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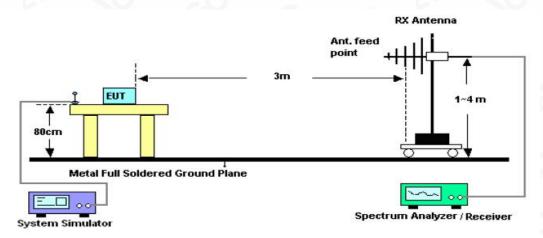


### 10.2. TEST SETUP

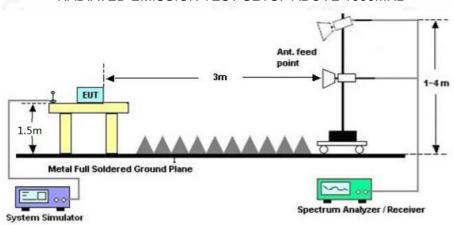
# Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Report No.: AGC09881200801FE03

Page 43 of 66

### 10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

# 10.4. TEST RESULT

### **RADIATED EMISSION BELOW 30MHz**

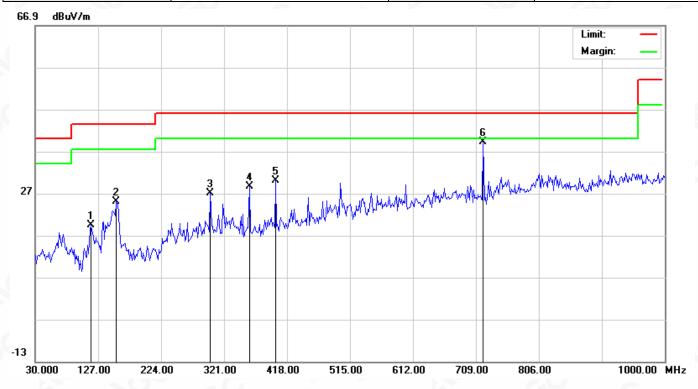
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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### **RADIATED EMISSION BELOW 1GHz**

EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal



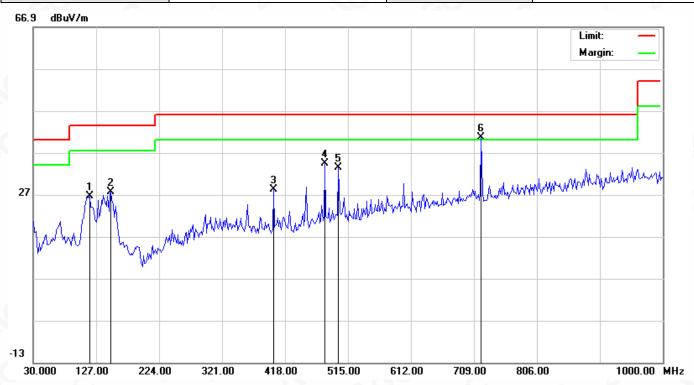
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		115.6833	2.98	16.47	19.45	43.50	-24.05	peak
2		154.4832	7.12	17.82	24.94	43.50	-18.56	peak
3		299.9832	5.50	21.47	26.97	46.00	-19.03	peak
4		359.8000	7.40	21.18	28.58	46.00	-17.42	peak
5		400.2167	9.01	20.99	30.00	46.00	-16.00	peak
6	*	720.3165	10.63	28.61	39.24	46.00	-6.76	peak

**RESULT: PASS** 

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EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



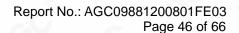
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		117.2999	9.55	17.03	26.58	43.50	-16.92	peak
2		149.6332	10.90	16.62	27.52	43.50	-15.98	peak
3		400.2167	7.12	20.99	28.11	46.00	-17.89	peak
4		479.4331	10.16	24.17	34.33	46.00	-11.67	peak
5		500.4499	8.40	25.00	33.40	46.00	-12.60	peak
6	*	720.3165	11.91	28.61	40.52	46.00	-5.48	peak

# **RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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c/Inspection
The test results
the test report.



# **RADIATED EMISSION ABOVE 1GHz**

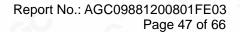
EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	46.86	0.08	46.94	74	-27.06	peak
4804.000	35.13	0.08	35.21	54	-18.79	AVG
7206.000	41.34	2.21	43.55	74	-30.45	peak
7206.000	31.57	2.21	33.78	54	-20.22	AVG
30				-60	-6	
emark:			(8)			700
actor = Anter	nna Factor + Cab	le Loss - Pre-	amplifier.	®		

EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	46.29	0.08	46.37	74	-27.63	peak
4804.000	35.17	0.08	35.25	54	-18.75	AVG
7206.000	40.56	2.21	42.77	74	-31.23	peak
7206.000	29.81	2.21	32.02	54	-21.98	AVG
60				5	G	6
emark:						
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.	(8)		

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c/Inspection
The test results
the test report.



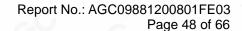
EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.92	0.14	46.06	74	-27.94	peak
4882.000	36.04	0.14	36.18	54	-17.82	AVG
7323.000	40.19	2.36	42.55	74	-31.45	peak
7323.000	31.75	2.36	34.11	54	-19.89	AVG
<b>©</b>				(e)		
	(8)					
emark:	- 0	<b>©</b>			- G	8
actor = Anter	na Factor + Cable	Loss – Pre-	-amplifier.			- C

EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	.,,
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	45.34	0.14	45.48	74	-28.52	peak
4882.000	36.57	0.14	36.71	54	-17.29	AVG
7323.000	40.29	2.36	42.65	74	-31.35	peak
7323.000	31.47	2.36	33.83	54	-20.17	AVG
<u> </u>	8		169	.0		
emark:	C	®		- 6	O	
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			

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EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	46.19	0.22	46.41	74	-27.59	peak
4960.000	38.45	0.22	38.67	54	-15.33	AVG
7440.000	41.06	2.64	43.7	74	-30.3	peak
7440.000	31.87	2.64	34.51	54	-19.49	AVG
<u> </u>	0		3	(6)	<u> </u>	
emark:	- 0	®		~ CO	-6	®
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			C

EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.23	0.22	46.45	74	-27.55	peak
38.47	0.22	38.69	54	-15.31	AVG
41.46	2.64	44.1	74	-29.9	peak
32.18	2.64	34.82	54	-19.18	AVG
	GU		©		
	(dBµV) 46.23 38.47 41.46	(dBµV) (dB) 46.23 0.22 38.47 0.22 41.46 2.64	(dBμV)     (dB)     (dBμV/m)       46.23     0.22     46.45       38.47     0.22     38.69       41.46     2.64     44.1	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       46.23     0.22     46.45     74       38.47     0.22     38.69     54       41.46     2.64     44.1     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       46.23     0.22     46.45     74     -27.55       38.47     0.22     38.69     54     -15.31       41.46     2.64     44.1     74     -29.9

# **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, Over=Measure-Limit.

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

All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.

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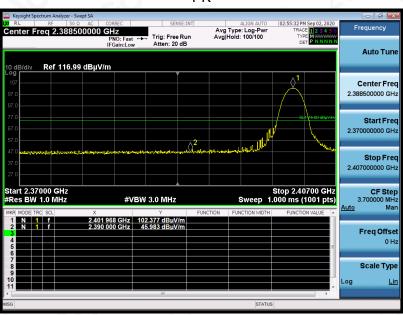
The test results



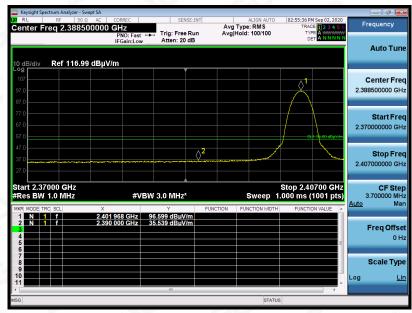
# TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

### PΚ



# ΑV



**RESULT: PASS** 

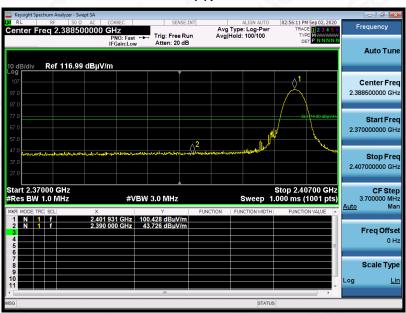
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The test results

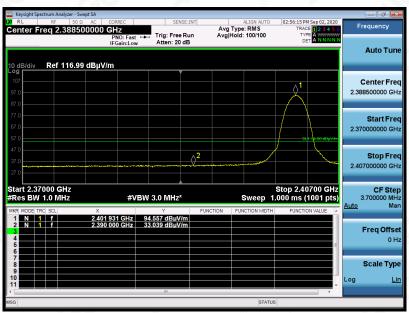


EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

#### PK



#### ΑV



**RESULT: PASS** 

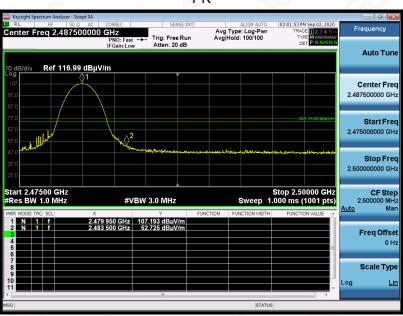
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The test results

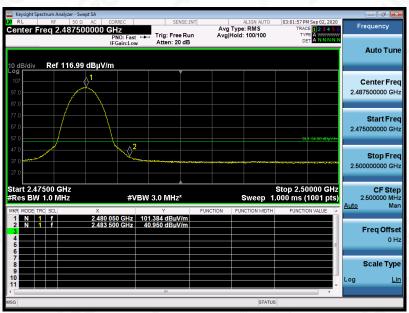


EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

#### PK



#### ΑV



**RESULT: PASS** 

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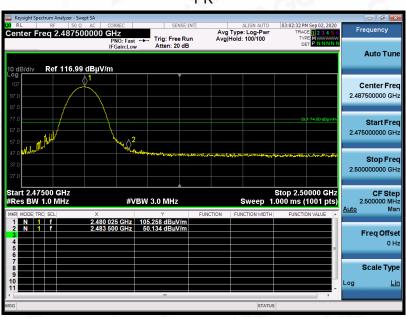
g/Inspection The test results

he test report.

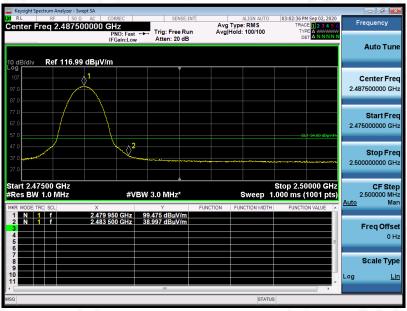


EUT	NINA-W1	Model Name	NINA-W106
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK







### **RESULT: PASS**

**Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The GFSK modulation is the worst case and recorded in the report.

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# 11. NUMBER OF HOPPING FREQUENCY

#### 11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 3. VBW RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.
- 4. Allow the trace to stabilize.

# 11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

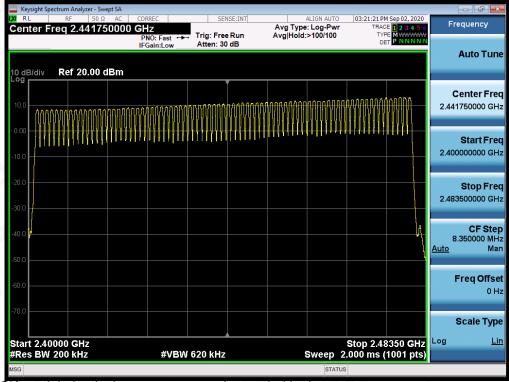
#### 11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

#### 11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
HOPPING CHANNEL	>=15	79	PASS

### TEST PLOT FOR NO. OF TOTAL CHANNELS



Note: The GFSK modulation is the worst case and recorded in the report.

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Report No.: AGC09881200801FE03 Page 54 of 66

# 12. TIME OF OCCUPANCY (DWELL TIME)

### 12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Zero span, centered on a hopping channel.
- 2. RBW shall be ≤channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- 3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- 4. Detector function: Peak. Trace: Max hold.
- 5. Use the marker-delta function to determine the transmit time per hop.
- 6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer)  $\times$  (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

# 12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

# 12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

#### 12.4. LIMITS AND MEASUREMENT RESULT

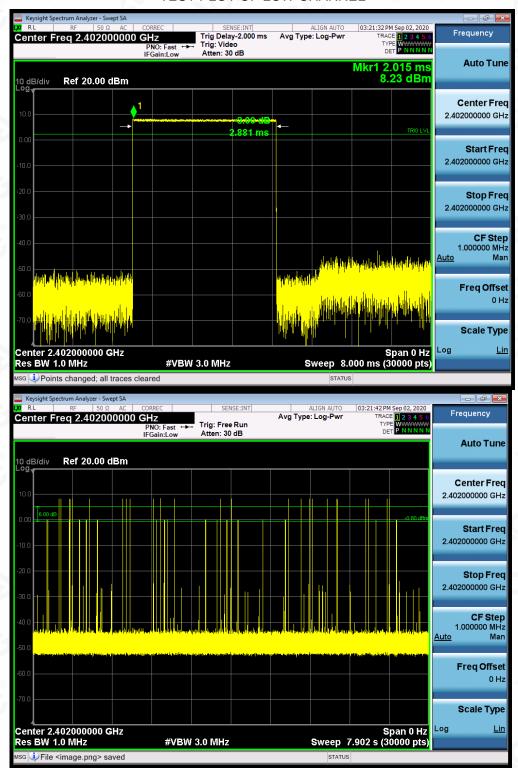
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)	
Low	2.881	23*4	265.05	400	
Middle	2.881	25*4	288.10	400	
High	2.881	23*4	265.05	400	

Note: The GFSK modulation is the worst case and recorded in the report.

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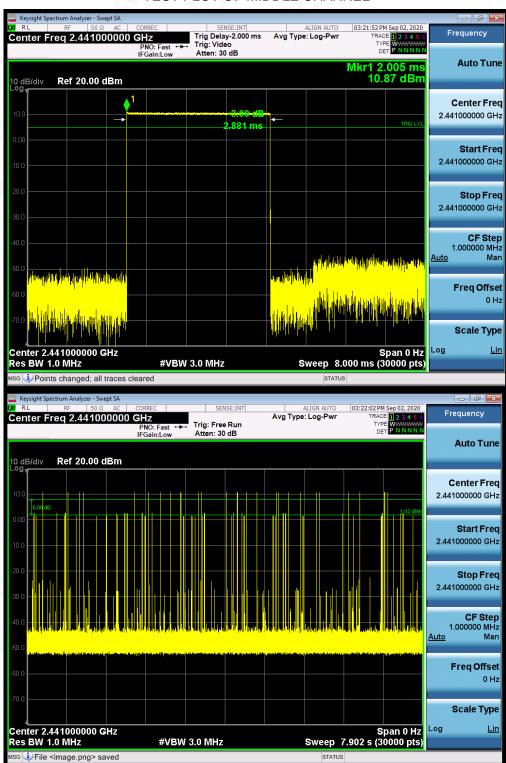
### TEST PLOT OF LOW CHANNEL



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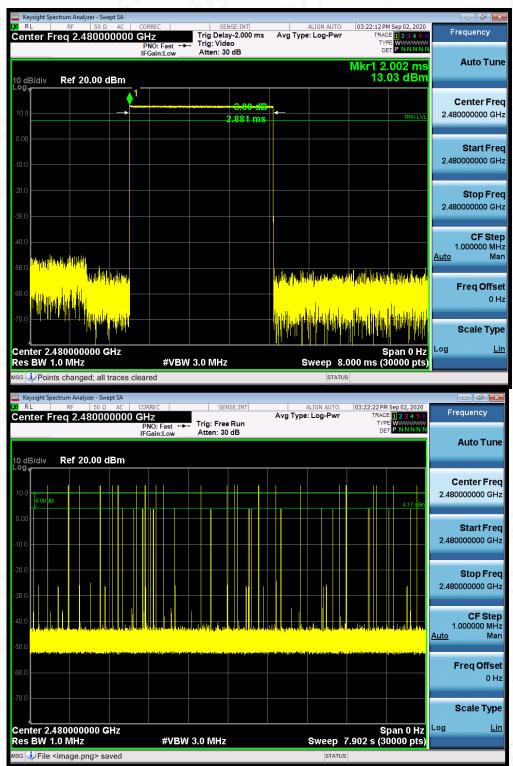
### TEST PLOT OF MIDDLE CHANNEL



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### TEST PLOT OF HIGH CHANNEL



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# 13. FREQUENCY SEPARATION

#### 13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Wide enough to capture the peaks of two adjacent channels.
- 2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3. Video (or average) bandwidth (VBW) ≥ RBW.
- 4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

## 13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

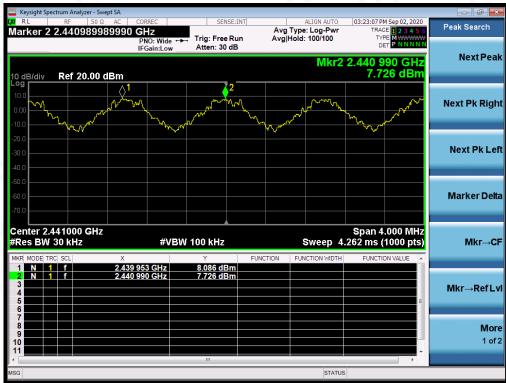
#### 13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

# 13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT		
	MHz		Dana		
CH01-CH02	1.037	>= 2/3 20 dB BW	Pass		

## TEST PLOT FOR FREQUENCY SEPARATION



Note: The GFSK modulation is the worst case and recorded in the report.

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# 14. FCC LINE CONDUCTED EMISSION TEST

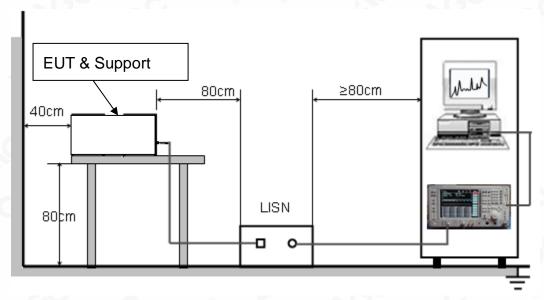
# 14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

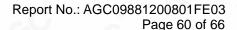
# Note:

- 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 0.50 MHz.

# 14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 14.3. 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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 3.3V power from control board which received AC120V/60Hz power from 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.

#### 14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

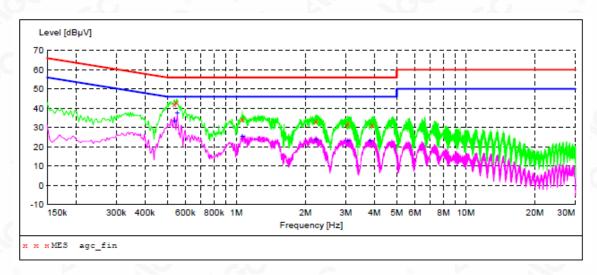
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.

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# 14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT: "agc fin"

2020/8/31 19:	48					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.538000	42.20	9.3	56	13.8	QP	L1
0.550000	43.30	9.3	56	12.7	QP	L1
1.062000	34.30	9.3	56	21.7	QP	L1
2.222000	33.30	9.3	56	22.7	QP	L1
3.054000	32.00	9.4	56	24.0	QP	L1
3.902000	31.40	9.4	56	24.6	QP	L1

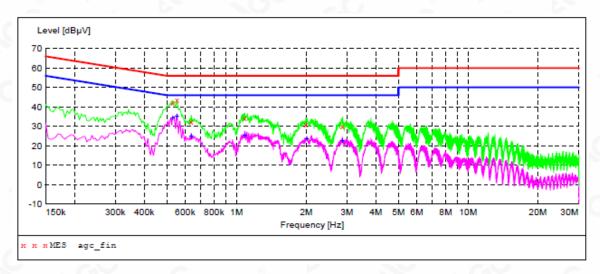
# MEASUREMENT RESULT: "agc\_fin2"

2020/8/31	19:48					
Frequen M	.cy Level Hz dBμV		Limit dBµV	Margin dB	Detector	Line
0.5380	00 33.40	9.3	46	12.6	AV	L1
0.5540	00 37.50	9.3	46	8.5	AV	L1
1.0620	00 25.30	9.3	46	20.7	AV	L1
2.2220	00 23.70	9.3	46	22.3	AV	L1
3.0540	00 22.90	9.4	46	23.1	AV	L1
3.8300	00 23.10	9.4	46	22.9	AV	L1

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# Line Conducted Emission Test Line 2-N



# MEASUREMENT RESULT: "agc\_fin"

2020/8/31 19:28							
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
	0.530000	42.40	9.3	56	13.6	QP	N
	0.554000	43.50	9.3	56	12.5	QP	N
	0.638000	32.30	9.3	56	23.7	QP	N
	1.086000	34.10	9.3	56	21.9	QP	N
	1.990000	31.00	9.3	56	25.0	QP	N
	2.870000	30.10	9.4	56	25.9	QP	N

## MEASUREMENT RESULT: "agc fin2"

2020/8/31 19:	28					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.530000	34.20	9.3	46	11.8	AV	N
0.554000	35.00	9.3	46	11.0	AV	N
0.638000	25.10	9.3	46	20.9	AV	N
1.086000	25.60	9.3	46	20.4	AV	N
2.010000	23.70	9.3	46	22.3	AV	N
2.862000	22.40	9.4	46	23.6	AV	N

# **RESULT: PASS**

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

RADIATED EMISSION TEST SETUP BELOW 1GHz



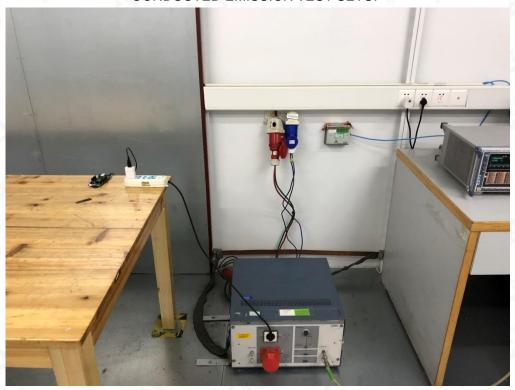
RADIATED EMISSION TEST SETUP ABOVE 1GHz



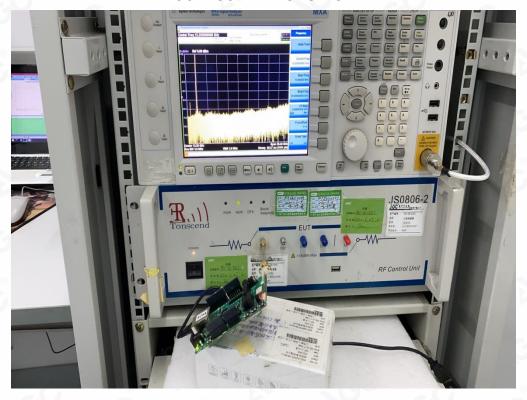
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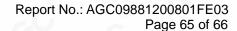
# CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



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# **APPENDIX B: PHOTOGRAPHS OF EUT**

Refer to the Report No.: AGC09881200801AP03

----END OF REPORT----

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#### Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 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. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.

he test report.

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