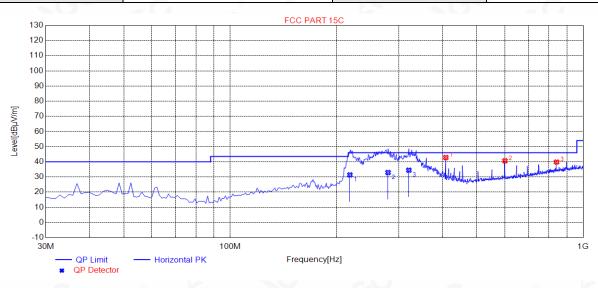


#### Report No.: AGC02115200601FE06 Page 141 of 171

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



#### Peak data list

	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
ſ	1	408.300	42.84	19.99	46.00	3.16	100	293	Horizontal
ſ	2	600.360	40.65	24.33	46.00	5.35	100	147	Horizontal
	3	840.920	39.84	29.12	46.00	6.16	100	265	Horizontal

#### QP data list

	NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	218.308 E	13.18	31.36	46.00	14.64	130	220	Horizon
	2	280.114	16.29	32.93	46.00	13.07	200	60	Horizon
2	3	320.794	16.72	34.48	46.00	11.52	150	160	Horizon

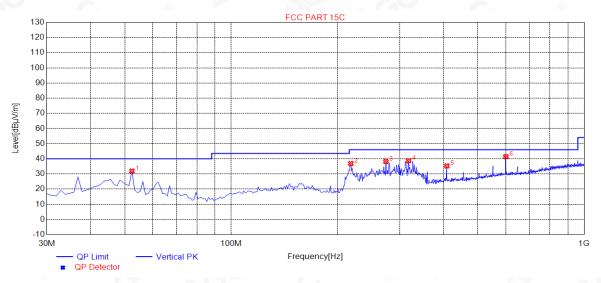
## **RESULT: PASS**

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#### Report No.: AGC02115200601FE06 Page 142 of 171

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	31.89	11.49	40.00	8.11	100	179	Vertical
2	218.180	36.84	13.17	46.00	9.16	100	176	Vertical
3	274.440	38.24	15.79	46.00	7.76	100	159	Vertical
4	318.090	38.76	16.61	46.00	7.24	100	189	Vertical
5	408.300	35.29	19.99	46.00	10.71	100	166	Vertical
6	600.360	41.41	24.33	46.00	4.59	100	12	Vertical

## **RESULT: PASS**

Note: All test channels had been tested. The antenna 1(10MHz bandwidth) in OFDM with data rate 6 modulation at 5180MHz and 5745MHz is the worst case and recorded in the test report. The antenna 1(20MHz bandwidth) in 802.11a at 5180MHz and 5745MHz modulation is the worst case and recorded in the test report.

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

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

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## **RADIATED EMISSION ABOVE 1GHZ**

#### 10MHz

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM with data rate 6 modulation 5180MHz	Antenna	Horizontal/Vertical

#### RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	43.16	9.14	52.30	68.20	-15.90	peak
15540.063	39.81	10.22	45.08	74.00	-28.92	peak
15540.063	30.54	10.22	41.11	54.00	-12.89	AVG
Remark:						
Factor = Ante	enna Factor + C	able Loss – F	Pre-amplifier			

## RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	45.39	9.14	54.53	68.20	-13.67	peak
15540.063	41.27	10.22	45.91	74.00	-28.09	peak
15540.063	30.16	10.22	42.00	54.00	-12.00	AVG
Remark:						
-actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.		8	

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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM with data rate 6 modulation 5240MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10480.042	44.37	9.27	53.64	68.20	-14.56	peak
15720.063	38.16	10.38	46.66	74.00	-27.34	peak
15720.063	31.24	10.38	42.78	54.00	-11.22 🛞	AVG

## RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	44.39	9.27	53.66	68.20	-14.54	peak
15720.063	38.46	10.38	46.58	74.00	-27.42	peak
15720.063	28.37	10.38	43.91	54.00	-10.09	AVG
Remark:		-0				
-actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.	8		

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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM with data rate 6 modulation 5745MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.042	45.97	9.42	55.39	74.00	-18.61	peak
11490.042	36.17	9.42	45.59	54.00	-8.41	AVG
17235.063	40.27	10.51	50.78	68.20	-17.42 💿	peak
17235.063 Remark:	40.27	10.51	50.78	68.20	-17.42	
nte	enna Factor + Ca	able Loss _ l	Dre-amplifier		-64	- 0

## RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.042	45.37	9.42	54.79	74.00	-19.21	peak
11490.042	38.15	9.42	47.57	54.00	-6.43	AVG
17235.063	40.67	10.51	51.18	68.20	-17.02	peak
Remark:		C	6			
actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.			

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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM with data rate 6 modulation 5825MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11650.042	45.39	9.62	55.01	74.00	-18.99	peak
11650.042	35.17	9.62	44.79	54.00	-9.21	AVG
17475.063	39.45	10.75	50.20	68.20	-18.00 💿	peak
Remark:	- 61	8		~ G~	- 6	(9)
Factor = Ante	enna Factor + C	able Loss – P	re-amplifier.			a.G

## RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.042	45.37	9.62	54.99	74.00	-19.01	peak
11650.042	39.15	9.62	48.77	54.00	-5.23	AVG
17475.063	40.37	10.75	51.12	68.20	-17.08	peak
Remark:	G	- 6	8			
actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.	8		

## **RESULT: PASS**

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# 20MHz

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

## RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
10360.042	43.59	9.14	52.73	68.20	-15.47	peak	
15540.063	39.96	10.22	45.08	74.00	-28.92	peak	
15540.063	30.34	10.22	41.11	54.00	-12.89	AVG	
Remark:							
Factor = Ante	actor = Antenna Factor + Cable Loss – Pre-amplifier.						

**RADIATED EMISSION ABOVE 1GHZ-Vertical** 

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	45.62	9.14	54.76	68.20	-13.44	peak
15540.063	41.39	10.22	45.91	74.00	-28.09	peak
15540.063	30.55	10.22	42.00	54.00	-12.00	AVG
Remark:		a.C	8			
actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.			

Compliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Sbedicated res Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written exchanges and the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day Safet the issues further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. /Inspection he test results Bf he test report.



EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	44.26	9.27	<sup>©</sup> 53.53	68.20	-14.67	peak
15720.063	38.76	10.38	46.66	74.00	-27.34	peak
15720.063	31.04	10.38	42.78	54.00	-11.22	AVG
Remark:	- 61	8		- 6	- 6	8
Factor = Ante	enna Factor + C	able Loss – P	re-amplifier.			- G

# RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	44.56	9.27	53.83	68.20	-14.37	peak
15720.063	39.15	10.38	46.58	74.00	-27.42	peak
15720.063	29.46	10.38	43.91	54.00	-10.09	AVG
Remark:	< G	- 6	8			
actor = Ante	enna Factor + C	able Loss – I	Pre-amplifier.	3		

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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Q
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.042	46.95	9.42	53.72	74.00	-20.28	peak
11490.042	37.12	9.42	48.16	54.00	-5.84	AVG
17235.063	41.23	10.51	51.74	68.20	-16.46	peak
Remark:	C	8				0
-actor = Ante	enna Factor + C	able Loss – P	re-amplifier.			

## RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
11490.042	45.98	9.42	54.44	74.00	-19.56	peak
11490.042	37.34	9.42	48.64	54.00	-5.36	AVG
17235.063	40.28	10.51	50.79	68.20	-17.41	peak

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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
11650.042	45.92	9.62	52.98	74.00	-21.02	peak
11650.042	35.44	9.62	45.05	54.00	-8.95	AVG
17475.063	39.89	10.75	50.64	68.20	-17.56	peak

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	<b>Emission Level</b>	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.042	45.81	9.62	53.55	74.00	-20.45	peak
11650.042	37.51	9.62	47.64	54.00	<sup>©</sup> -6.36	AVG
17475.063	41.34	10.75	52.09	68.20	-16.11	peak
Remark:			8		. 6	
-actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.	3		

# **RESULT: PASS**

Note: All the case had been tested. The antenna 1(10MHz bandwidth) in OFDM with data rate 6 modulation is the worst case and recorded in the test report. The antenna 1(20MHz bandwidth) in 802.11a20 modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

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

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

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# **13. BAND EDGE EMISSION**

## **13.1. 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 11.2.

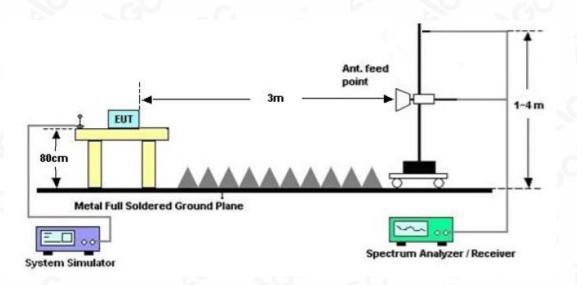
Note:

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( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

13.2. TEST SET-UP



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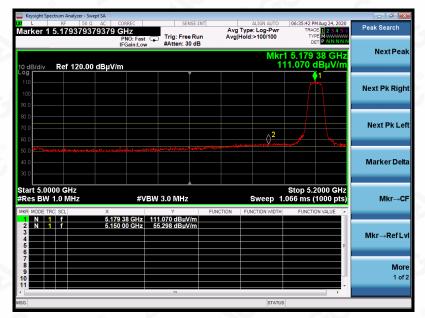


## 13.3. TEST RESULT

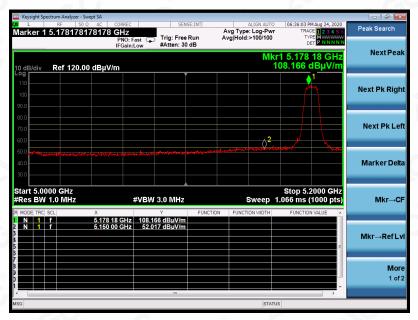
#### Bandwidth 10 MHz

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM WITH DATA RATE 6 5180MHz	Antenna	Horizontal

#### PK Value



**AV Value** 



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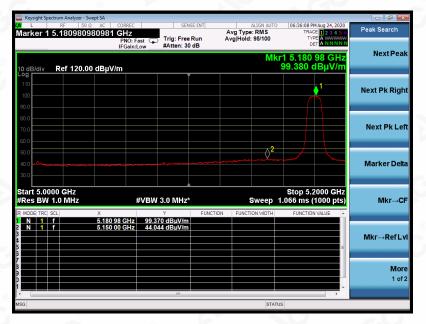
#### Report No.: AGC02115200601FE06 Page 153 of 171

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM WITH DATA RATE 6 5180MHz	Antenna	Vertical



#### PK Value

AV Value



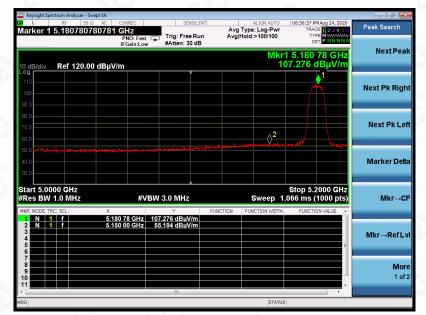
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#### Report No.: AGC02115200601FE06 Page 154 of 171

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM with data rate MCS0 5180MHz	Antenna	Horizontal



## PK Value

AV Value

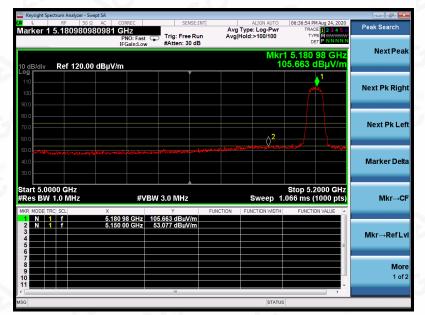


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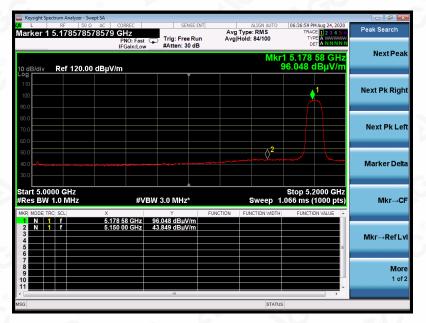
#### Report No.: AGC02115200601FE06 Page 155 of 171

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	OFDM with data rate MCS0 5180MHz	Antenna	Vertical



#### PK Value

AV Value



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#### **Bandwidth 20 MHz**

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



#### PK Value

AV Value



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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



#### **PK Value**

AV Value



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EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 5180MHz	Antenna	Horizontal



#### **PK** Value

AV Value



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#### Report No.: AGC02115200601FE06 Page 159 of 171

EUT	ANAFI USA	Model Name	anamk3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 5180MHz	Antenna	Vertical



#### PK Value

AV Value



#### **RESULT: PASS**

Note: All the 10MHz/20MHz bandwidth modulation had been tested, All the antennas have been pre-tested, and all modes of each antenna are tested. The In 802.11a mode antenna 1 is the worst case and recorded in the report; In 802.11n mode, antenna 1+2 is the worst case and recorded in the report.

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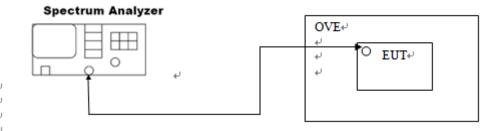


# **14. FREQUENCY STABILITY**

## **14.1. MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the operation frequency.
- 3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
- 4. Set SPA Trace 1 Max hold, then View.
- 5. Extreme temperature rule is -10°C~60°C.

## 14.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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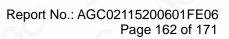


# **14.3. MEASUREMENT RESULTS**

#### Bandwidth 10 MHz

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion	
C .	- 10℃	5180	5180.031	PASS	
C C	0°C	5180	5180.035	PASS	
	<b>10</b> ℃	5180	5180.036	PASS	
	<b>20</b> ℃	5180	5180.037	PASS	
	<b>30</b> ℃	5180	5180.032	PASS	
	<b>40</b> ℃	5180	5180.034	PASS	
	<b>50</b> ℃	5180	5180.033	PASS	
	<b>60</b> ℃	5180	5180.035	PASS	
8	- 10℃	5240	5240.061	PASS	
~G	<b>0</b> °C	5240	5240.068	PASS	
	<b>10</b> ℃	5240	5240.062	PASS	
	<b>20</b> ℃	5240	5240.064	PASS	
8	<b>30</b> ℃	5240	5240.068	PASS	
G	<b>40</b> ℃	5240	5240.069	PASS	
	<b>50</b> ℃	5240	5240.067	PASS	
OFDM WITH	<b>60</b> ℃	5240	5240.065	PASS	
DATA RATE 6	- 10℃	5745	5745.043	PASS	
	0°C	5745	5745.047	PASS	
	<b>10</b> ℃	5745	5745.045	PASS	
	<b>20</b> ℃	5745	5745.047	PASS	
8	<b>30</b> ℃	5745	5745.049	PASS	
- 0	<b>40</b> ℃	5745	5745.045	PASS	
	<b>50</b> ℃	5745	5745.041	PASS	
	<b>60</b> ℃	5240	5745.043	PASS	
0	- 10℃	5825	5825.055	PASS	
.C	0°C	5825	5825.056	PASS	
6	<b>10</b> ℃	5825	5825.055	PASS	
	<b>20</b> ℃	5825	5825.055	PASS	
	<b>30</b> ℃	5825	5825.055	PASS	
	<b>40</b> ℃	5825	5825.055	PASS	
~G	<b>50</b> ℃	5825	5825.055	PASS	
	<b>60</b> ℃	5825	5825.055	PASS	

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Test Mode	Mode Temperature Measurement Frequency (MHz)			Conclusion	
	- 10℃	5180	5180.024	PASS	
	<b>0</b> °C	5180	5180.025	PASS	
	<b>10</b> ℃	5180	5180.026	PASS	
	<b>20</b> °C	5180	5180.025	PASS	
	<b>30</b> ℃	5180	5180.022	PASS	
8	<b>40</b> ℃	5180	5180.026	PASS	
8	<b>50</b> ℃	5180	5180.028	PASS	
	<b>60</b> ℃	5180	5180.029	PASS	
	- 10℃	5240	5240.055	PASS	
	0°C	5240	5240.055	PASS	
	<b>10</b> ℃	5240	5240.054	PASS	
G	<b>20</b> ℃	5240	5240.056	PASS	
	<b>30</b> ℃	5240	5240.052	PASS	
	<b>40</b> ℃	5240	5240.055	PASS	
	<b>50</b> ℃	5240	5240.054	PASS	
OFDM with	<b>60</b> ℃	5240	5240.056	PASS	
lata rate MCS0	- 10℃	5745	5745.047	PASS	
	<b>0</b> °C	5745	5745.048	PASS	
8	<b>10</b> ℃	5745	5745.044	PASS	
	<b>20</b> ℃	5745	5745.042	PASS	
	<b>30</b> °C	5745	5745.041	PASS	
	<b>40</b> ℃	5745	5745.043	PASS	
	<b>50</b> ℃	5745	5745.048	PASS	
	<b>60</b> ℃	5240	5745.049	PASS	
	- 10℃	5825	5825.057	PASS	
	<b>0</b> °C	5825	5825.058	PASS	
	<b>10</b> ℃	5825	5825.055	PASS	
	<b>20</b> ℃	5825	5825.051	PASS	
	<b>30</b> ℃	5825	5825.056	PASS	
	<b>40</b> ℃	5825	5825.058	PASS	
0	<b>50</b> ℃	5825	5825.054	PASS	
	<b>60</b> ℃	5825	5825.055	PASS	

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## Bandwidth 20 MHz

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusior
	- 10℃	5180	5180.031	PASS
	<b>0</b> °C	5180	5180.036	PASS
	<b>10</b> ℃	5180	5180.039	PASS
	<b>20</b> ℃	5180	5180.037	PASS
	<b>30</b> ℃	5180	5180.032	PASS
	<b>40</b> ℃	5180	5180.036	PASS
3	<b>50</b> ℃	5180	5180.037	PASS
	<b>60</b> ℃	5180	5180.038	PASS
	- 10℃	5240	5240.061	PASS
	0°C	5240	5240.032	PASS
	<b>10</b> ℃	5240	5240.034	PASS
G	<b>20</b> ℃	5240	5240.038	PASS
	<b>30</b> ℃	5240	5240.039	PASS
	<b>40</b> ℃	5240	5240.075	PASS
C	<b>50</b> ℃	5240	5240.045	PASS
802.11a	<b>60</b> ℃	5240	5240.038	PASS
802.11a	- 10℃	5745	5745.066	PASS
	<b>0</b> °C	5745	5745.049	PASS
8	<b>10</b> ℃	5745	5745.047	PASS
NGC -	<b>20</b> ℃	5745	5745.045	PASS
	<b>30</b> ℃	5745	5745.043	PASS
	<b>40</b> ℃	5745	5745.045	PASS
6	<b>50</b> ℃	5745	5745.041	PASS
CO I	<b>60</b> ℃	5240	5745.045	PASS
	- 10℃	5825	5825.056	PASS
	<b>0</b> °C	5825	5825.058	PASS
¢ _	<b>10</b> ℃	5825	5825.051	PASS
	<b>20</b> ℃	5825	5825.046	PASS
	<b>30</b> ℃	5825	5825.059	PASS
	<b>40</b> ℃	5825	5825.057	PASS
8	<b>50</b> ℃	5825	5825.055	PASS
<i>c.</i> C	<b>60</b> ℃	5825	5825.055	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
	- 10℃	5180	5180.036	PASS
	<b>0</b> °C	5180	5180.038	PASS
	<b>10</b> ℃	5180	5180.039	PASS
	<b>20</b> ℃	5180	5180.037	PASS
	<b>30</b> ℃	5180	5180.034	PASS
	<b>40</b> ℃	5180	5180.039	PASS
©	<b>50</b> ℃	5180	5180.037	PASS
	<b>60</b> ℃	5180	5180.034	PASS
	- 10℃	5240	5240.039	PASS
	0°C	5240	5240.037	PASS
	<b>10</b> ℃	5240	5240.035	PASS
G	<b>20</b> ℃	5240	5240.039	PASS
	<b>30</b> ℃	5240	5240.034	PASS
0	<b>40</b> ℃	5240	5240.034	PASS
	<b>50</b> ℃	5240	5240.032	PASS
802.11n20	<b>60</b> ℃	5240	5240.031	PASS
002.11120	- 10℃	5745	5745.043	PASS
	<b>0</b> °C	5745	5745.048	PASS
8	<b>10</b> ℃	5745	5745.049	PASS
0.5	<b>20</b> ℃	5745	5745.047	PASS
	<b>30</b> ℃	5745	5745.044	PASS
	<b>40</b> ℃	5745	5745.045	PASS
S A	<b>50</b> ℃	5745	5745.041	PASS
G	<b>60</b> ℃	5240	5745.046	PASS
	- 10℃	5825	5825.052	PASS
0	<b>0</b> °C	5825	5825.057	PASS
C	<b>10</b> ℃	5825	5825.058	PASS
	<b>20</b> ℃	5825	5825.053	PASS
	<b>30</b> ℃	5825	5825.054	PASS
	<b>40</b> ℃	5825	5825.059	PASS
8	<b>50</b> ℃	5825	5825.055	PASS
-0	<b>60</b> ℃	5825	5825.056	PASS

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# **15. FCC LINE CONDUCTED EMISSION TEST**

## **15.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

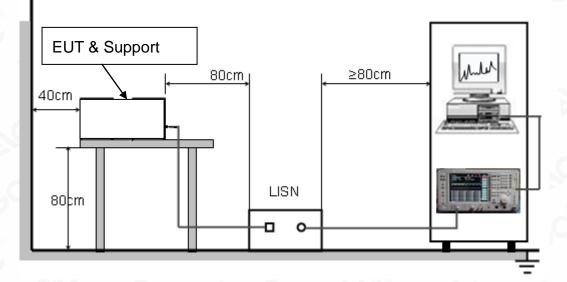
Francianau	Maximum RF	Maximum RF Line Voltage				
Frequency	Q.P.( dBuV)	Average( dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

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.

# 15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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## **15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

- 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 AC120V/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.

## 15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

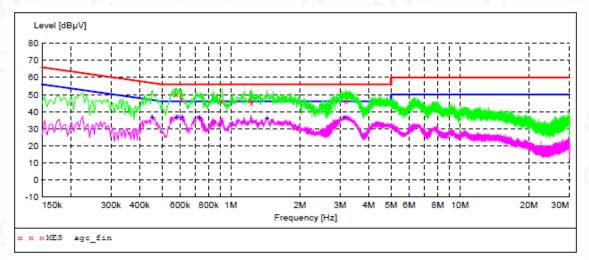
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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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# 15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### LINE CONDUCTED EMISSION TEST-L



## MEASUREMENT RESULT: "agc\_fin"

2020/8/13 14:33

20/0/13 14.							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBuV	dB	dBuV	dB			
	abµ.	0.2	αDμ.	0.2			
0.578000	50.30	9.3	56	5.7	QP	L1	GND
0.610000	47.50	9.3	56	8.5	QP	L1	GND
0.914000	45.90	9.3	56	10.1	QP	L1	GND
1.214000	46.50	9.3	56	9.5	OP	L1	GND
1.234000	45.20	9.3	56	10.8	OP	L1	GND
3.182000	46.10	9.4	56	9.9	0P	L1	GND
					-		

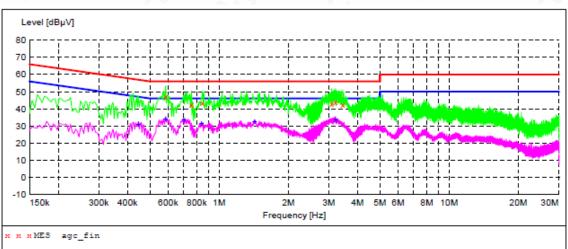
#### MEASUREMENT RESULT: "agc fin2"

2020/8/13 14:	33						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.454000	36.50	9.3	47	10.3	AV	L1	GND
0.578000	36.80	9.3	46	9.2	AV	L1	GND
0.614000	36.50	9.3	46	9.5	AV	L1	GND
0.730000	36.60	9.3	46	9.4	AV	L1	GND
1.438000	36.20	9.3	46	9.8	AV	L1	GND
3.118000	36.50	9.4	46	9.5	AV	L1	GND

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#### LINE CONDUCTED EMISSION TEST-N

#### MEASUREMENT RESULT: "agc\_fin"

2020/8/13 14:22

Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.586000	47.00	9.3	56	9.0	QP	Ν	GND
0.758000	42.30	9.3	56	13.7	QP	N	GND
0.846000	43.30	9.3	56	12.7	QP	N	GND
3.082000	42.70	9.4	56	13.3	QP	N	GND
3.206000	44.10	9.4	56	11.9	QP	N	GND
3.442000	42.60	9.4	56	13.4	QP	N	GND

#### MEASUREMENT RESULT: "agc\_fin2"

2020/8/13 14:	22						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.446000	31.10	9.3	47	15.8	AV	N	GND
0.586000	33.80	9.3	46	12.2	AV	N	GND
0.702000	33.40	9.3	46	12.6	AV	N	GND
0.838000	31.20	9.3	46	14.8	AV	N	GND
1.426000	32.50	9.3	46	13.5	AV	N	GND
3.206000	33.50	9.4	46	12.5	AV	N	GND

## **RESULT: PASS**

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

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# APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC02115200601AP02

----END OF REPORT----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Festive/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter explorization of AGE" 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 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



#### 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.

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