

Page: 1 of 52

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





FCC Applicant: Cognito Health Inc.

9F-1, No. 3, Yuangu St. Nangang Dist., Taipei, 115 TAIWAN

Product Name: Control Box

Brand Name: Cognito Health

Model No.: BA6E-31, BA6E-32

BA6E-31 with LTE/GNSS module, BA6E-32 without Model Difference:

LTE/GNSS module.

Report Number: E2/2022/20134

FCC ID 2A5HF-BA6EN

Issue Date: Apr. 25, 2022

Date of Test: Mar. 03, 2022~Apr. 22, 2022

Date of EUT Received: Dec. 22, 2021

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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 comply with FCC rule part §15.225.

The results of this report relate only to the sample identified in this report.

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Page: 2 of 52

Revision History									
Report Number	Revision	Description	Issue Date	Revised By	Remark				
E2/2022/20134	00	Original.	Mar. 30, 2022	Yami Kuo	*				
E2/2022/20134	01	Add the radiated spurious emission of co-located mode.	Apr. 25, 2022	Yami Kuo	*				

Note:

- 1 . The remark "*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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Page: 3 of 52

Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	6
3	SUMMARY OF TEST RESULTS	8
4	DESCRIPTION OF TEST MODES	9
5	MEASUREMENT UNCERTAINTY	10
6	MEASUREMENT EQUIPMENT USED	11
7	CONDUCTED EMISSIONS TEST	13
8	RADIATED EMISSION TEST	18
9	FREQUENCY STABILITY	42
10	EMISSION BANDWIDTH MEASUREMENT	47
11	ANTENNA REQUIREMENT	52

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Page: 4 of 52

GENERAL INFORMATION

1.1 **Product Description**

Product Name:	Control Box
Brand Name:	Cognito Health
Model No.:	BA6E-31, BA6E-32
Model Difference:	BA6E-31 with LTE/GNSS module, BA6E-32 without LTE/GNSS module.
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	NK4003026(BA6E-31) SK4010680(BA6E-32)
Power Supply:	12Vdc from AC/DC Adapter
Test Software (Name/Version)	Default (Power on)

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	BA6E-31 19.04 dBuV/m at 30m; 59.04 dBuV/m at 3m. BA6E-32 20.03 dBuV/m at 30m; 60.03 dBuV/m at 3m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop Antenna

Note: Antenna information is provided by the applicant.

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Section Section** Section**



Page: 5 of 52

1.3 **Test Methodology**

FCC Part 15, Subpart C §15.225 ANSI C63.10:2013.

1.4 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	-	
(TAF code 3702)		SAC C		
(1A1 Code 3702)		SAC D		
		SAC G		
	No O Kaii Aat Dal Quiale an Diatriat	Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladyuan City, Taiwan 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.5 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.6 **Equipment Modifications**

There was no modification incorporated into the EUT.

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Page: 6 of 52

SYSTEM TEST CONFIGURATION

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 **Test Procedure**

2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 **Radiated Emissions**

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max, emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

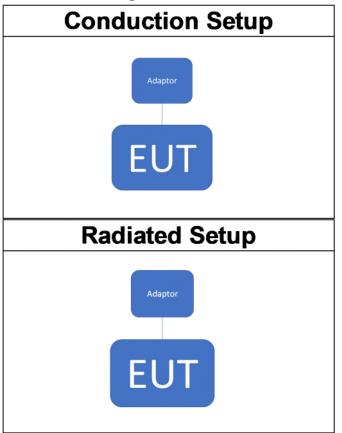
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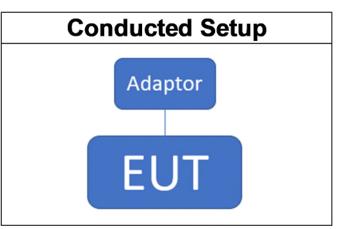
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Page: 7 of 52

2.4 Test Configuration





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Page: 8 of 52

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	Emission Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

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Page: 9 of 52

DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST								
MODE	MODE AVAILABLE TESTED MODULAT							
NFC	1	1	ASK					
	FREQUENCY STABILITY							
MODE	DDE AVAILABLE TESTED MODULAT							
NFC	1	1	ASK					
	20dB BANDWIDTH							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION					
NFC	1	1	ASK					

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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Page: 10 of 52

MEASUREMENT UNCERTAINTY

Test Items	Unc	ertainty	•
AC Power Line Conducted Emission	+/-	2.34	dB
Frequency Stability	+/-	1.53	Hz
Emission Bandwidth	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
	+/-	2.57	dB	9kHz~30MHz		
Polarization: Vertical	+/-	4.85	dB	30MHz - 1000MHz		
Polarization, vertical	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		
	+/-	2.57	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz		
Fularization. Hunzuntal	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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Page: 11 of 52

MEASUREMENT EQUIPMENT USED

6.1 **Emission from AC power line**

AC Power-Line Conducted Emission Test Site: Conduction C								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	973	03/25/2021	03/24/2022			
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022			
Coaxial Cable	EC Lab	RF-HY-CAB- 250	RF-HY-CAB-250-01	03/27/2021	03/26/2022			
Pulse Limiter	EC Lab	VTSD 9561F- N	485	03/27/2021	03/26/2022			
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			

Conducted Measurement 6.2

Conducted Emission Test Site: Conducted A								
EQUIPMENT TYPE MFR MODEL NUMBER SERIAL NUMBER LAST CAL. CAL DUE.								
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022			
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	2021/4/6	04/05/2022			
DC Block	PASTERNACK	PE8210	RF151	11/18/2021	11/17/2022			
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R			
DC Power Supply	Gwinstek	SPS-3610	GEV856767	09/29/2021	09/28/2022			
Temperature Chamber	TERCHY	MHK-120LK	1020582	2021/7/1	06/30/2022			

6.3 **Radiated Measurement**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022

NOTE: N.C.R refers to Not Calibrated Required.

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Page: 12 of 52

6.4 Co-located

Radiated Emission Test Site: SAC G								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband Antenna	SCHWARZBEC K	VULB 9168	9168-617	11/12/2021	11/11/2022			
Broadband Antenna	SCHWARZBEC K	VULB 9168	1206	02/15/2022	02/14/2023			
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022			
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022			
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022			
Horn Antenna	Schwarzbeck	BBHA9120D	D603	05/18/2022	05/17/2023			
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022			
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023			
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022			
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022			
Test Software	audix	е3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			
Pre-Amplifier	EMC Instruments	EMC184045 B	980135	10/27/2021	10/26/2022			
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023			
Pre-Amplifier	EMC Instruments	EMC118A45 SE	980815	03/15/2022	03/14/2023			
Band Rejection Filter	WI	WRC GV1700/20 30- 1640/2090	RF193	11/18/2021	11/17/2022			
Band Rejection Filter	Micro-Tronics	G015	RF198	11/18/2021	11/17/2022			
Band Rejection Filter	Micro-Tronics	BRM50701- 01	RF201	11/18/2021	11/17/2022			
Highpass Filter	WI	WHKX10- 2624-3200- 1800-80SS	1	05/10/2021	05/09/2022			
Highpass Filter	WI	WHKX10- 6090-7000- 17000-80SS	1	05/10/2021	05/09/2022			
Coaxial Cable	EMC Instruments	EMCCFD400 -NM-NM- 8000-5000- 2000	210216 \ 210217 \ 210218	03/15/2022	03/14/2023			
Coaxial Cable	EMC Instruments	EMC104- SM-SM- 8000-5000- 5000	210219 \ 210220 \ 210221	03/15/2022	03/14/2023			
Coaxial Cable	EMC Instruments	EMC105- NM-NM- 5000-15000	210224 \ 210306	03/15/2022	03/14/2023			

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Page: 13 of 52

7 CONDUCTED EMISSIONS TEST

6.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

40 0010111					
Frequency range	Limits (dBuV)				
• • • •		,			
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

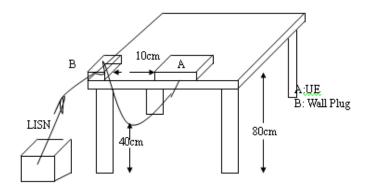
Note

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

6.2 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

6.3 Test SET-UP (Block Diagram of Configuration)



6.4 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

6.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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Page: 14 of 52

AC POWER LINE CONDUCTED EMISSION TEST DATA

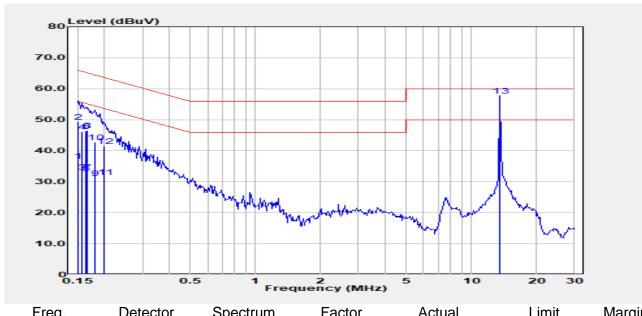
BA6E-31

Report Number :E2/2022/20134 Test Site :Conduction C

Test Mode :NFC Test Date :2022-03-04

Power :120V/60Hz Temp./Humi. :21.6/66

Probe :L1 Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.152	Average	26.40	10.30	36.70	55.91	-19.21
0.152	QP	39.10	10.30	49.40	65.91	-16.51
0.158	Average	22.80	10.30	33.10	55.56	-22.46
0.158	QP	35.90	10.30	46.20	65.56	-19.36
0.163	Average	22.40	10.30	32.70	55.30	-22.60
0.163	QP	36.00	10.30	46.30	65.30	-19.00
0.167	Average	22.70	10.30	33.00	55.12	-22.12
0.167	QP	36.20	10.30	46.50	65.12	-18.62
0.182	Average	20.70	10.30	31.00	54.42	-23.42
0.182	QP	32.50	10.30	42.80	64.42	-21.62
0.200	Average	21.22	10.30	31.52	53.62	-22.10
0.200	QP	31.16	10.30	41.46	63.62	-22.16
13.551	Peak		10.75	57.76		

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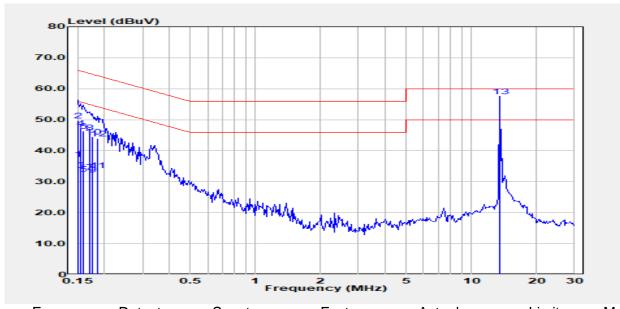
Page: 15 of 52

Report Number :E2/2022/20134 Test Site :Conduction C

:NFC Test Mode Test Date :2022-03-04

:120V/60Hz Power Temp./Humi. :21.6/66

Probe :N Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.150	Average	26.90	10.31	37.21	56.00	-18.79
0.150	QP	39.40	10.31	49.71	66.00	-16.29
0.155	Average	23.30	10.31	33.61	55.74	-22.13
0.155	QP	37.00	10.31	47.31	65.74	-18.43
0.160	Average	22.20	10.31	32.51	55.47	-22.96
0.160	QP	36.10	10.31	46.41	65.47	-19.06
0.170	Average	22.80	10.31	33.11	54.94	-21.84
0.170	QP	35.70	10.31	46.01	64.94	-18.94
0.176	Average	21.89	10.30	32.19	54.68	-22.49
0.176	QP	34.22	10.30	44.52	64.68	-20.16
0.185	Average	23.44	10.30	33.74	54.24	-20.50
0.185	QP	33.56	10.30	43.86	64.24	-20.38
13.551	Peak		10.83	57.51		

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Page: 16 of 52

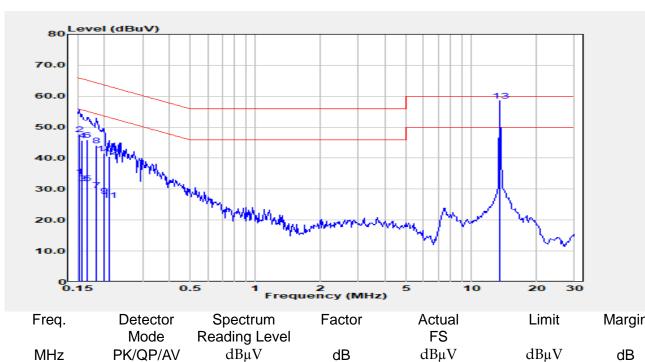
BA6E-32

Report Number :E2/2022/20134 Test Site :Conduction C

:NFC Test Mode Test Date :2022-03-04

Power :120V/60Hz Temp./Humi. :21.6/66

Probe :Jack Tseng :L1 Engineer



Freq. Detect	tor Spectrum	Factor	Actual	Limit	Margin
Mode	e Reading Level		FS		
MHz PK/QP/	/AV dBµV	dB	dΒμV	dΒμV	dB
0.153 Averaç	ge 23.70	10.30	34.00	55.82	-21.82
0.153 QP	37.50	10.30	47.80	65.82	-18.02
0.156 Averaç	ge 21.60	10.30	31.90	55.65	-23.75
0.156 QP	35.40	10.30	45.70	65.65	-19.95
0.167 Averaç	ge 21.58	10.30	31.88	55.12	-23.24
0.167 QP	35.70	10.30	46.00	65.12	-19.12
0.183 Averaç	ge 19.30	10.30	29.60	54.33	-24.73
0.183 QP	33.80	10.30	44.10	64.33	-20.23
0.200 Averaç	ge 17.50	10.30	27.80	53.62	-25.82
0.200 QP	31.20	10.30	41.50	63.62	-22.12
0.211 Averaç	ge 16.11	10.30	26.41	53.18	-26.77
0.211 QP	30.22	10.30	40.52	63.18	-22.66
13.551 Peak	·	10.75	58.50		

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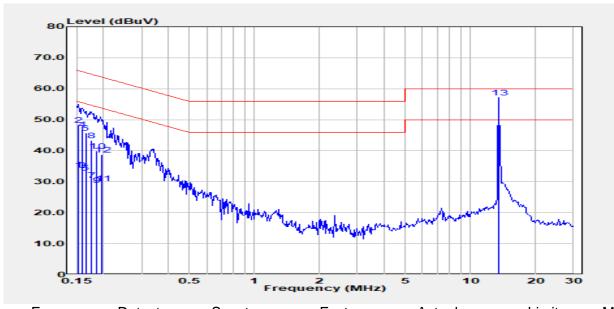
Page: 17 of 52

Report Number :E2/2022/20134 Test Site :Conduction C

:NFC Test Mode Test Date :2022-03-04

:120V/60Hz Power Temp./Humi. :21.6/66

Probe :N Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.153	Average	23.60	10.31	33.91	55.82	-21.91
0.153	QP	38.00	10.31	48.31	65.82	-17.51
0.160	Average	23.30	10.31	33.61	55.47	-21.86
0.160	QP	36.60	10.31	46.91	65.47	-18.56
0.165	Average	22.60	10.31	32.91	55.21	-22.30
0.165	QP	35.50	10.31	45.81	65.21	-19.40
0.176	Average	20.10	10.30	30.40	54.68	-24.28
0.176	QP	33.10	10.30	43.40	64.68	-21.28
0.185	Average	18.60	10.30	28.90	54.24	-25.34
0.185	QP	29.50	10.30	39.80	64.24	-24.44
0.198	Average	19.12	10.30	29.42	53.71	-24.29
0.198	QP	28.44	10.30	38.74	63.71	-24.97
13.551	Peak		10.83	57.12		

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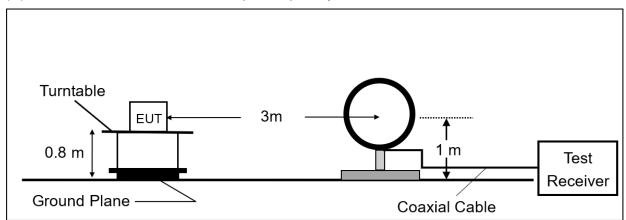


Page: 18 of 52

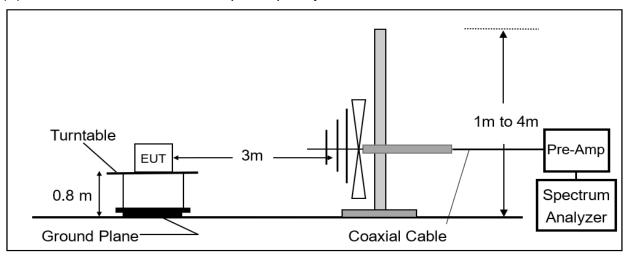
RADIATED EMISSION TEST

8.1 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



8.2 **Measurement Procedure**

- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all default test channel measured were complete.

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Page: 19 of 52

Field Strength Calculation 8.3

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

8.4 Field Strength of Fundamental Emission

8.4.1 Applicable standard

Rules and specifiactions	CFR 47 Part 15 section 15.225(a)-(d)				
Frequency of Emission (MHz)	Field Strength (μV/m)at 30m	Field Strength (dBµV/m)at 30m			
1.705~13.110	30	29.5			
13.110~13.410	106	40.5			
13.410~13.553	334	50.5			
13.553~13.567	15848	84			
13.567~13.710	334	50.5			
13.710~14.010	106	40.5			
14.010~30.00	30	29.5			

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Page: 20 of 52

8.4.2 **Distance Extrapolation Factor**

30m to 3m

Distance extrapolation = 40 * log (30/3) = 40 dB

30m to 10m

Distance extrapolation = 40 * log (30/10) = 19.08 dB

10m to 3m

Distance extrapolation = 40 * log (10/3) = 20.92 dB

Note:

- 1. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 2. The lower limit shall apply at the transition frequencies.
- 3. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS(dB μ V/m) = Spectrum. Reading level(dB μ V) + Factor(dB)

Below 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Pre_Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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Page: 21 of 52

8.4.3 Field Strength of Fundamental Emission Measurement Result

8.5 **Radiated Spurious Emission Measurement**

8.5.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15,209 as below.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- Emission level in $dB\mu V/m=20 \log (\mu V/m)$ 1.
- Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. 20*log(30uV/m) = 29.54 dBuV/m
- The lower limit shall apply at the transition frequencies. 4.
- The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
- 6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
- 7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Page: 22 of 52

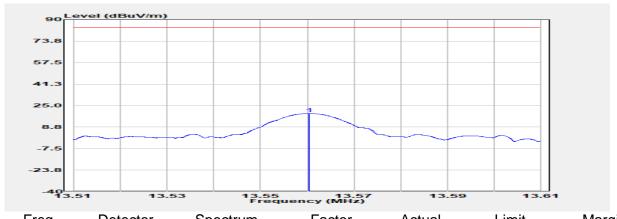
8.5.2 **Radiated Spurious Emission Measurement Result BA6E-31**

Test Site :SAC D Report Number :E2/2022/20134

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67 Antenna Pol. Test Mode :Main :Vertical

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	47.28	-28.24	19.04	84.00	-64.96

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 23 of 52

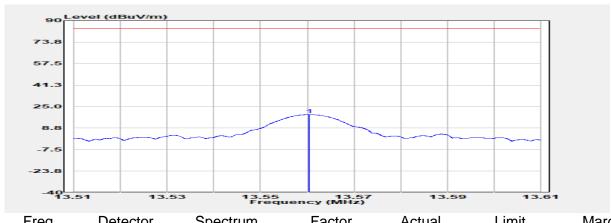
Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :Main :Horizontal

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.561	Peak	47.16	-28.24	18.92	84.00	-65.08

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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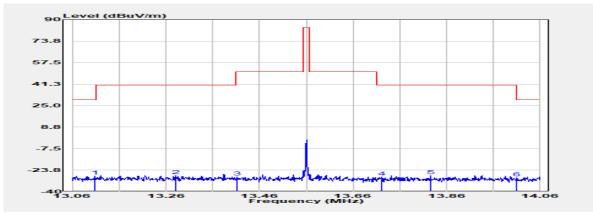
Page: 24 of 52

Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67 Antenna Pol. Test Mode :Mask :Vertical

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.107	Peak	-0.04	-28.20	-28.24	29.54	-57.78
13.280	Peak	0.12	-28.22	-28.10	40.50	-68.60
13.412	Peak	-0.59	-28.23	-28.82	50.47	-79.29
13.722	Peak	-0.56	-28.26	-28.81	40.50	-69.31
13.826	Peak	0.20	-28.26	-28.06	40.50	-68.56
14.010	Peak	-1.30	-28.28	-29.58	29.54	-59.12

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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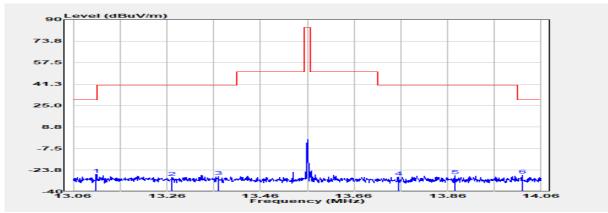
Page: 25 of 52

Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :Mask :Horizontal Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.109	Peak	1.22	-28.20	-26.99	29.54	-56.53
13.271	Peak	-0.90	-28.22	-29.12	40.50	-69.62
13.370	Peak	-0.27	-28.23	-28.50	40.50	-69.00
13.754	Peak	-0.80	-28.26	-29.06	40.50	-69.56
13.876	Peak	0.30	-28.27	-27.97	40.50	-68.47
14.019	Peak	0.69	-28.28	-27.59	29.54	-57.13

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 26 of 52

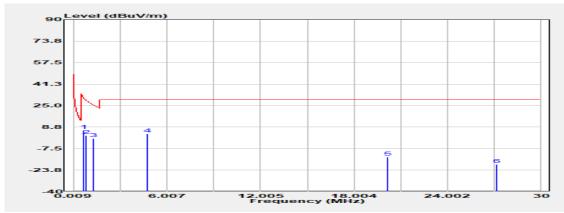
Report Number :E2/2022/20134 Test Site :SAC D

Operation Mode :NFC Test Date :2022-03-03

Test Frequency :13.56 MHz Temp./Humi. :23.5/67

Test Mode :TX Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.639	Peak	35.03	-28.63	6.40	31.50	-25.10
0.849	Peak	30.78	-28.54	2.24	29.03	-26.79
1.329	Peak	28.60	-28.60	-0.01	25.14	-25.15
4.778	Peak	32.52	-28.93	3.60	29.54	-25.94
20.163	Peak	14.88	-28.71	-13.83	29.54	-43.37
27.120	Peak	10.43	-30.00	-19.56	29.54	-49.10

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 27 of 52

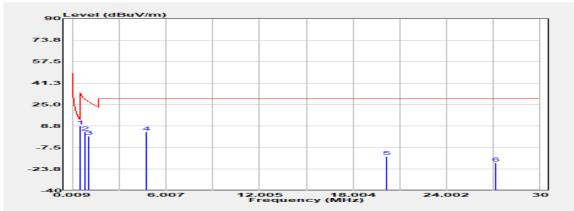
Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :TX :Horizontal

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.519	Peak	37.56	-28.70	8.86	33.31	-24.45
0.789	Peak	32.84	-28.56	4.28	29.67	-25.38
1.059	Peak	29.55	-28.51	1.04	27.11	-26.07
4.748	Peak	33.13	-28.93	4.21	29.54	-25.33
20.163	Peak	14.44	-28.71	-14.27	29.54	-43.81
27.120	Peak	10.86	-30.00	-19.14	29.54	-48.68

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 28 of 52

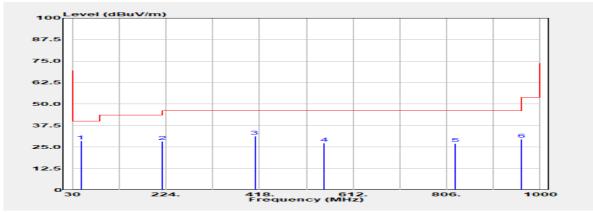
:SAC D Report Number :E2/2022/20134 Test Site

Operation Mode :NFC Test Date :2022-03-03

Test Frequency :13.56 MHz Temp./Humi. :23.5/67

Test Mode :TX Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
47.460	Peak	46.17	-17.62	28.55	40.00	-11.45
216.240	Peak	48.29	-19.99	28.30	46.00	-17.70
408.300	Peak	44.72	-13.42	31.30	46.00	-14.70
551.860	Peak	37.85	-10.47	27.38	46.00	-18.62
824.430	Peak	33.45	-6.34	27.11	46.00	-18.89
961.200	Peak	33.83	-4.25	29.58	54.00	-24.42

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Page: 29 of 52

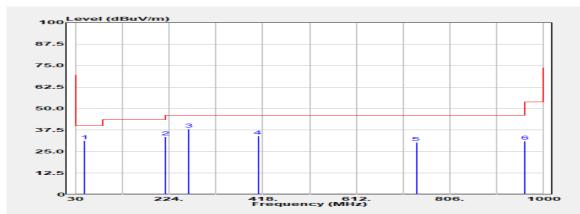
Test Site :SAC D Report Number :E2/2022/20134

Operation Mode :NFC Test Date :2022-03-03

Test Frequency :13.56 MHz Temp./Humi. :23.5/67

Test Mode :TX Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Jack Tseng Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
48.430	Peak	48.68	-17.44	31.25	40.00	-8.75
216.240	Peak	53.58	-19.99	33.59	46.00	-12.41
263.770	Peak	55.09	-17.05	38.05	46.00	-7.95
408.300	Peak	47.62	-13.42	34.20	46.00	-11.80
736.160	Peak	37.89	-7.58	30.30	46.00	-15.70
960.230	Peak	35.35	-4.23	31.12	54.00	-22.88

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Page: 30 of 52

BA6E-32

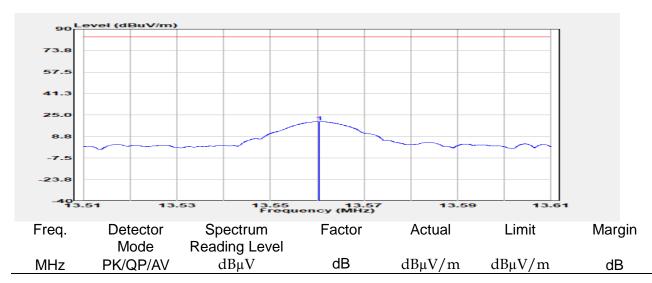
Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :Main :Vertical

Engineer **EUT Pol** :E2 Plane :Jack Tseng



13.560 48.27 -28.24 20.03 84.00 -63.97 Peak

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz. Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 31 of 52

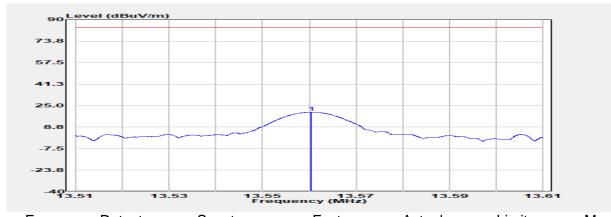
Report Number :E2/2022/20134 Test Site :SAC D

Operation Mode :NFC Test Date :2022-03-03

Test Frequency :13.56 MHz Temp./Humi. :23.5/67

Test Mode :Main Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	48.24	-28.24	20.00	84.00	-64.00

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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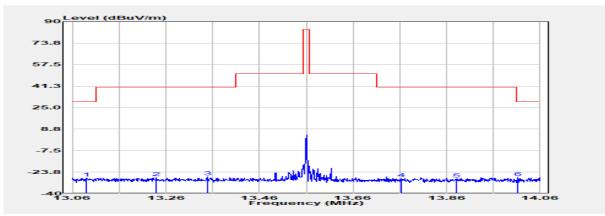
Page: 32 of 52

Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67 Antenna Pol. Test Mode :Mask :Vertical

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.091	Peak	-0.08	-28.20	-28.28	29.54	-57.82
13.240	Peak	0.17	-28.22	-28.04	40.50	-68.54
13.348	Peak	0.97	-28.22	-27.26	40.50	-67.76
13.764	Peak	-0.40	-28.26	-28.66	40.50	-69.16
13.880	Peak	-0.78	-28.27	-29.05	40.50	-69.55
14.012	Peak	0.47	-28.28	-27.81	29.54	-57.35

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 33 of 52

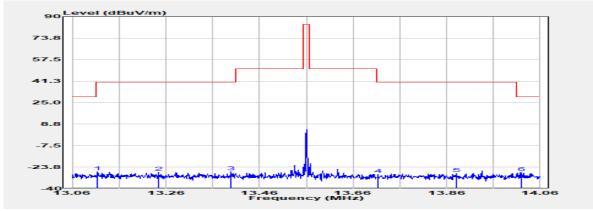
Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :Mask :Horizontal

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
13.114	Peak	1.05	-28.20	-27.15	40.50	-67.65
13.244	Peak	0.48	-28.22	-27.73	40.50	-68.23
13.399	Peak	1.04	-28.23	-27.19	40.50	-67.69
13.713	Peak	-0.87	-28.25	-29.12	40.50	-69.62
13.880	Peak	-0.45	-28.27	-28.72	40.50	-69.22
14.019	Peak	0.27	-28.28	-28.00	29.54	-57.54

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 34 of 52

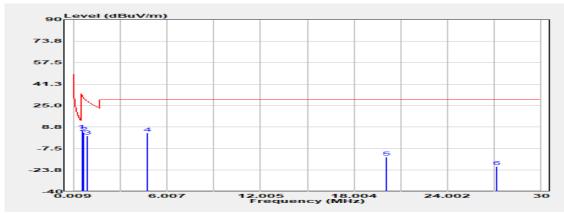
Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :TX :Vertical

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.549	Peak	34.85	-28.68	6.17	32.82	-26.65
0.699	Peak	33.16	-28.60	4.56	30.72	-26.16
0.879	Peak	30.57	-28.53	2.04	28.73	-26.69
4.778	Peak	33.13	-28.93	4.20	29.54	-25.34
20.103	Peak	14.78	-28.70	-13.92	29.54	-43.46
27.120	Peak	8.78	-30.00	-21.22	29.54	-50.76

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 35 of 52

Test Site Report Number :E2/2022/20134 :SAC D

Test Date Operation Mode :NFC :2022-03-03

Temp./Humi. Test Frequency :13.56 MHz :23.5/67

Antenna Pol. Test Mode :TX :Horizontal

Engineer **EUT Pol** :E2 Plane :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
0.639	Peak	34.53	-28.63	5.89	31.50	-25.61
0.909	Peak	31.37	-28.52	2.85	28.44	-25.58
4.778	Peak	31.74	-28.93	2.81	29.54	-26.73
20.163	Peak	15.08	-28.71	-13.64	29.54	-43.18
27.120	Peak	9.95	-30.00	-20.05	29.54	-49.59
28.560	Peak	12.86	-30.18	-17.32	29.54	-46.86

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss - Pre Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Page: 36 of 52

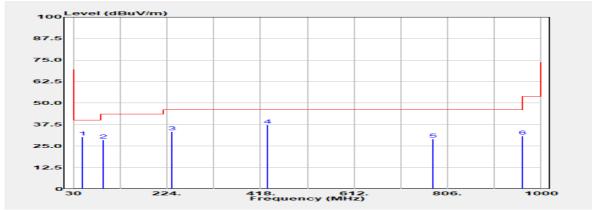
:SAC D Report Number :E2/2022/20134 Test Site

Operation Mode :NFC **Test Date** :2022-03-03

Test Frequency :13.56 MHz Temp./Humi. :23.5/67

Test Mode :TX Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Jack Tseng



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
49.400	Peak	47.62	-17.35	30.26	40.00	-9.74
93.050	Peak	51.13	-22.48	28.65	43.50	-14.85
234.670	Peak	52.07	-18.71	33.36	46.00	-12.64
433.520	Peak	50.19	-12.75	37.44	46.00	-8.56
774.960	Peak	35.67	-6.65	29.02	46.00	-16.98
961.200	Peak	35.12	-4.25	30.88	54.00	-23.12

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Page: 37 of 52

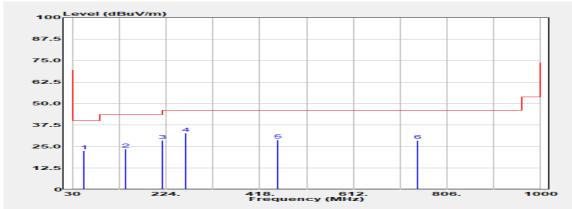
Test Site :SAC D Report Number :E2/2022/20134

Operation Mode :NFC Test Date :2022-03-03

Test Frequency :13.56 MHz Temp./Humi. :23.5/67

Test Mode :TX Antenna Pol. :Horizontal

EUT Pol :E2 Plane :Jack Tseng Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
54.250	Peak	39.92	-17.48	22.44	40.00	-17.56
140.580	Peak	40.82	-17.26	23.55	43.50	-19.95
216.240	Peak	48.53	-19.99	28.54	46.00	-17.46
263.770	Peak	49.98	-17.05	32.94	46.00	-13.06
455.830	Peak	40.37	-11.63	28.75	46.00	-17.25
743.920	Peak	35.42	-6.97	28.46	46.00	-17.54

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Page: 38 of 52

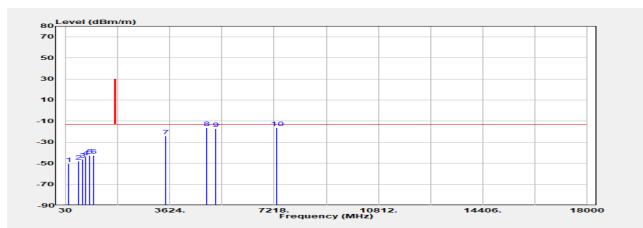
Co-Located

Report Number :E2/2022/20134 Test Site :SAC G

Operation Mode :LTE B4+WLAN 2.4G Test Date :2022-04-22

Test Mode :TX CH MID Temp./Humi. :22.5/65 **EUT Pol** :E2 Plane Antenna Pol. :Vertical

Test Frequency :1732.5 MHz+2437 MHz Engineer :Howard Huang



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
110.510	-50.49	-46.22	-1.52	-2.75	-13.00	-37.49
450.010	-47.96	-49.46	4.12	-2.62	-13.00	-34.96
590.660	-46.42	-47.09	3.78	-3.11	-13.00	-33.42
723.550	-44.14	-43.62	3.27	-3.79	-13.00	-31.14
857.410	-42.52	-43.18	4.58	-3.92	-13.00	-29.52
989.330	-42.41	-41.81	3.96	-4.56	-13.00	-29.41
3465.000	-24.23	-27.4	12.34	-9.17	-13.00	-11.23
4874.000	-16.47	-18.38	12.70	-10.79	-13.00	-3.47
5197.500	-17.16	-18.87	12.88	-11.17	-13.00	-4.16
7311.000	-16.11	-13.63	10.94	-13.42	-13.00	-3.11

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Page: 39 of 52

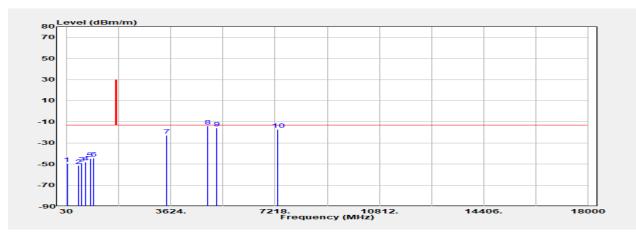
Test Site :SAC G Report Number :E2/2022/20134

:2022-04-22 Operation Mode :LTE B4+WLAN 2.4G Test Date

Test Mode :TX CH MID Temp./Humi. :22.5/65

EUT Pol :E2 Plane Antenna Pol. :Horizontal

:1732.5 MHz+2437 MHz Test Frequency Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.880	-49.59	-33.16	-14.03	-2.40	-13.00	-36.59
441.280	-51.16	-52.49	4.06	-2.73	-13.00	-38.16
524.700	-48.96	-50.41	4.16	-2.71	-13.00	-35.96
686.690	-48.14	-48.67	3.76	-3.23	-13.00	-35.14
828.310	-44.89	-45.4	4.49	-3.98	-13.00	-31.89
959.260	-44.25	-43.48	3.72	-4.49	-13.00	-31.25
3465.000	-22.82	-25.99	12.34	-9.17	-13.00	-9.82
4874.000	-14.06	-15.97	12.70	-10.79	-13.00	-1.06
5197.500	-15.80	-17.51	12.88	-11.17	-13.00	-2.80
7311.000	-17.02	-14.54	10.94	-13.42	-13.00	-4.02

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Taiwan Ltd.



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Report No.: E2/2022/20134

Page: 40 of 52

14406

18000

Test Site :SAC G Report Number :E2/2022/20134

:2022-04-22 Operation Mode :LTE B4+WLAN 5G **Test Date**

Test Mode :TX CH MID Temp./Humi. :22.5/65

EUT Pol :E2 Plane Antenna Pol. :Vertical :Howard Huang Test Frequency :1732.5 MHz+5220 MHz Engineer



7218. 10812. Frequency (MHz)

Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
110.510	-49.57	-45.30	-1.52	-2.75	-13.00	-36.57
536.340	-47.48	-49.06	4.28	-2.70	-13.00	-34.48
590.660	-45.50	-46.17	3.78	-3.11	-13.00	-32.50
785.630	-43.71	-43.89	3.58	-3.40	-13.00	-30.71
839.950	-42.50	-43.36	4.65	-3.79	-13.00	-29.50
989.330	-41.49	-40.89	3.96	-4.56	-13.00	-28.49
3465.000	-23.98	-27.15	12.34	-9.17	-13.00	-10.98
5197.500	-17.28	-18.99	12.88	-11.17	-13.00	-4.28
10440.000	-17.41	-11.67	10.56	-16.30	-13.00	-4.41
15660.000	-14.17	-10.71	16.38	-19.84	-13.00	-1.17

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Page: 41 of 52

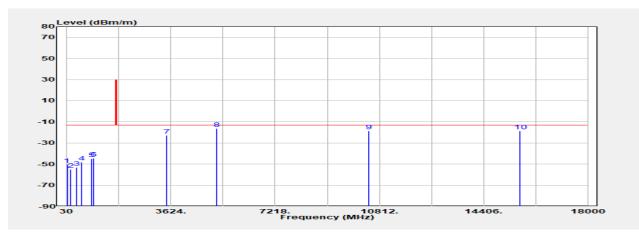
Test Site :SAC G Report Number :E2/2022/20134

:2022-04-22 Operation Mode :LTE B4+WLAN 5G **Test Date**

Test Mode :TX CH MID Temp./Humi. :22.5/65

EUT Pol :E2 Plane Antenna Pol. :Horizontal

Test Frequency :1732.5 MHz+5220 MHz Engineer :Howard Huang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
33.880	-50.59	34.16	-14.03	-2.40	-13.00	-37.59
149.310	-55.00	-50.51	-1.66	-2.83	-13.00	-42.00
358.830	-53.02	-54.35	4.48	-3.15	-13.00	-40.02
524.700	-47.96	-49.41	4.16	-2.71	-13.00	-34.96
871.960	-44.73	-45.1	4.49	-4.12	-13.00	-31.73
959.260	-44.25	-43.48	3.72	-4.49	-13.00	-31.25
3465.000	-22.57	-25.74	12.34	-9.17	-13.00	-9.57
5197.500	-16.08	-17.79	12.88	-11.17	-13.00	-3.08
10440.000	-18.46	-12.72	10.56	-16.30	-13.00	-5.46
15660.000	-18.56	-15.1	16.38	-19.84	-13.00	-5.56

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Page: 42 of 52

9 FREQUENCY STABILITY

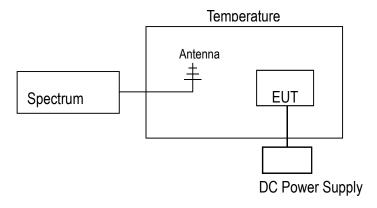
9.1 Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

9.2 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- 4. Set SPA Max hold. Mark peak.

9.3 Test SET-UP (Block Diagram of Configuration)



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Page: 43 of 52

9.4 **Measurement Results**

BA6E-31

Startup

A Temperature Variation

A. Temperature Variation						
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)		
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	LIIIII (KHZ)		
12	-20	13.560195	0.19500	+/- 1.356		
12	-10	13.560185	0.18500	+/- 1.356		
12	0	13.560205	0.20500	+/- 1.356		
12	10	13.560205	0.20500	+/- 1.356		
12	20	13.560225	0.22500	+/- 1.356		
12	30	13.560225	0.22500	+/- 1.356		
12	40	13.560235	0.23500	+/- 1.356		
12	50	13.560235	0.23500	+/- 1.356		

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	LIIIII (KHZ)
13.8	20	13.560215	0.21500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
10.2	20	13.560215	0.21500	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Deita (KHZ)	LIIIIII (KMZ)
12	-20	13.560205	0.20500	+/- 1.356
12	-10	13.560185	0.18500	+/- 1.356
12	0	13.560215	0.21500	+/- 1.356
12	10	13.560225	0.22500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
12	30	13.560205	0.20500	+/- 1.356
12	40	13.560245	0.24500	+/- 1.356
12	50	13.560255	0.25500	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	LIIIII (KHZ)
13.8	20	13.560205	0.20500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
10.2	20	13.560255	0.25500	+/- 1.356

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Page: 44 of 52

5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	LIIIII (KHZ)
12	-20	13.560185	0.18500	+/- 1.356
12	-10	13.560205	0.20500	+/- 1.356
12	0	13.560205	0.20500	+/- 1.356
12	10	13.560215	0.21500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
12	30	13.560195	0.19500	+/- 1.356
12	40	13.560205	0.20500	+/- 1.356
12	50	13.560215	0.21500	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	LIIIII (KHZ)
13.8	20	13.560225	0.22500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
10.2	20	13.560255	0.25500	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Dolto (kHz)	Limit (kUz)
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
12	-20	13.560195	0.19500	+/- 1.356
12	-10	13.560195	0.19500	+/- 1.356
12	0	13.560195	0.19500	+/- 1.356
12	10	13.560195	0.19500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
12	30	13.560235	0.23500	+/- 1.356
12	40	13.560215	0.21500	+/- 1.356
12	50	13.560225	0.22500	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz) Limit (k	Limit (k∐z)
Vdc	Temperature (°C)	(MHz)		LIIIII (KFIZ)
13.8	20	13.560215	0.21500	+/- 1.356
12	20	13.560225	0.22500	+/- 1.356
10.2	20	13.560205	0.20500	+/- 1.356

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Page: 45 of 52

BA6E-32

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	
12	-20	13.56016	0.16000	+/- 1.356
12	-10	13.56016	0.16000	+/- 1.356
12	0	13.56018	0.18000	+/- 1.356
12	10	13.56018	0.18000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
12	30	13.56017	0.17000	+/- 1.356
12	40	13.56019	0.19000	+/- 1.356
12	50	13.5602	0.20000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (kHz)	Limit (LUz)
Vdc	Temperature (°C)	(MHz)	Delta (kHz) Limit (kl	Limit (kHz)
13.8	20	13.56021	0.21000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
10.2	20	13.56019	0.19000	+/- 1.356

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Dolto (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	
12	-20	13.56018	0.18000	+/- 1.356
12	-10	13.56016	0.16000	+/- 1.356
12	0	13.56018	0.18000	+/- 1.356
12	10	13.56018	0.18000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
12	30	13.56018	0.18000	+/- 1.356
12	40	13.56022	0.22000	+/- 1.356
12	50	13.56021	0.21000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.56023	0.23000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
10.2	20	13.5602	0.20000	+/- 1.356

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Page: 46 of 52

5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Dolto (kHz)	Limit (IdHz)
Vdc	Temperature (°C)	(MHz)	Delta (kHz)	Limit (kHz)
12	-20	13.56018	0.18000	+/- 1.356
12	-10	13.56016	0.16000	+/- 1.356
12	0	13.56019	0.19000	+/- 1.356
12	10	13.56017	0.17000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
12	30	13.5602	0.20000	+/- 1.356
12	40	13.5602	0.20000	+/- 1.356
12	50	13.56017	0.17000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.5602	0.20000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
10.2	20	13.56017	0.17000	+/- 1.356

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)	Della (KHZ)	
12	-20	13.56018	0.18000	+/- 1.356
12	-10	13.56017	0.17000	+/- 1.356
12	0	13.56017	0.17000	+/- 1.356
12	10	13.56018	0.18000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
12	30	13.56021	0.21000	+/- 1.356
12	40	13.5602	0.20000	+/- 1.356
12	50	13.56021	0.21000	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz) Limit (kHz)	Limit (k∐z)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.56018	0.18000	+/- 1.356
12	20	13.5602	0.20000	+/- 1.356
10.2	20	13.56023	0.23000	+/- 1.356

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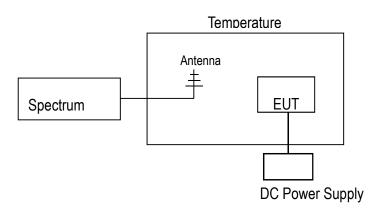
Page: 47 of 52

10 EMISSION BANDWIDTH MEASUREMENT

Applicable Standard:

The 20 dB bandwidth shall be specified in operating frequency band.

10.2 **Test Set-up**



10.3 **Measurement Procedure**

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

Measurement Result 10.4

BA6E-31

FCC

20dB BW (kHz)
2.696

Opration range	Frequency (MHz)	Limit (MHz)
Low	13.55908	>13.11
High	13.56138	<14.01

BA6E-32

FCC

20dB BW (kHz)
2.695

Opration range	Frequency (MHz)	Limit (MHz)
Low	13.55905	>13.11
High	13.56138	<14.01

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Page: 48 of 52

BA6E-31

Bandwidth



Operation range low



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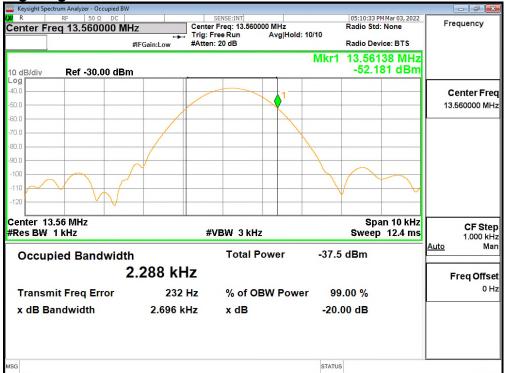
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Operation range High



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Page: 50 of 52

BA6E-32

Bandwidth



Operation range low



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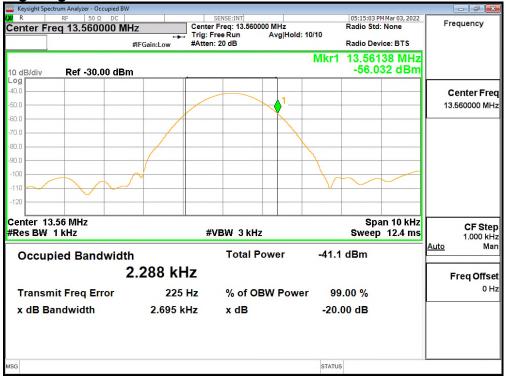
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Page: 51 of 52

Operation range High



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Page: 52 of 52

11 ANTENNA REQUIREMENT

11.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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