

FCC Test Report

Report No.: AGC03067201001FE02

FCC ID	: 2AXZL-K59	
APPLICATION PURPOSE	: Original Equipment	t
PRODUCT DESIGNATION	: Distancing Alarm	
BRAND NAME	: KBeacon	
MODEL NAME	: K59, K59S, K59T, K	59P
APPLICANT	: KKM Company Lim	ited
DATE OF ISSUE	: Nov. 02,2020	
STANDARD(S)	: FCC Part 15.247	
REPORT VERSION	: V1.0	

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REPORT REVISE RECORD

Report Version Revise Time		Issued Date	Valid Version	Notes
V1.0		Nov. 02,2020	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	KKM Company Limited		
Address	4B, Building 6, Baoneng Science & Technology Park, Qingxiang Rd, Longhua Street, Longhua District, Shenzhen City, Guangdong Province, China		
Manufacturer	KKM Company Limited		
Address	4B, Building 6, Baoneng Science & Technology Park, Qingxiang Rd, Longhua Street, Longhua District, Shenzhen City, Guangdong Province, China		
Factory	KKM Company Limited		
Address	4B, Building 6, Baoneng Science & Technology Park, Qingxiang Rd, Longhua Street, Longhua District, Shenzhen City, Guangdong Province, China		
Product Designation	Distancing Alarm		
Brand Name	KBeacon		
Test Model	K59		
Series Model	K59S, K59T, K59P		
Difference Description	All the same except for the model name and plastic appearance color.		
Date of test	Oct. 27,2020 to Nov. 02,2020		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

Eddy . Liu

Eddy Liu Project Engineer

Nov. 02,2020

Reviewed By

Max Zhans

Max Zhang Reviewer

Nov. 02,2020

Approved By

ford

Forrest Lei Authorized Officer

Nov. 02,2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Distancing Alarm". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-1.886dBm (Max)
Bluetooth Version	V 5.0
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	Ceramic Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	0dBi
Hardware Version	V1.0
Software Version	V1.0.0
Power Supply	DC 3.7V by battery or DC 5V by adapter

Note: The EUT doesn't support BR&EDR.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402 MHz	
c.C		2404 MHz	
2400~2483.5MHz			
	38	2478 MHz	
GO C	39	2480 MHz	

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2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AXZL-K59 filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, $Uc = \pm 3.9 dB$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted, $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2\%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

RX constant carrier/LO lea TX/RX channel sweep RX sensitivity 4 Bluetooth nRF8001 Configuration Dispatcher Trace Translator Direct Test Mode	k A Direct Test Mode Set up on Come port COM2 Mode B @ Transmit Channel @ Single	UART interface	
nRF8002 evice Manazer	- Channel	39	
Motherboards nRF51 Programming Bootloaders	Payload model Payload length Packets received	FREG V 1 bytes : K/A Stop test	
og] [
c) Nordic Semiconductor ASA 2008-	2013		

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Distancing Alarm	K59	2AXZL-K59	EUT
2	Adapter	TY0500100E1MN	N/A	AE
3	Charger line	G258	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

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

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	N/A	N/A
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03,2020	Sep. 02,2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP







RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	-2.087	30	Pass		
2.440	-2.018	30	Pass		
2.480	-1.886	30	Pass		

CH0



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Frequency



Center Freq 2.440000000 GHz

CH19 sense:INT trig: Free Run Atten: 30 dB Auign Auto Avg Type: Log-Pwr Avg|Hold: 100/100 Mkr1



CH39

Image: Note of the second se	
PN0: Fast Trig: Free Run IFGain: Low Avg Hold: 100/100 TVPE DET NNNNNN 10 dB/div Ref 20.00 dBm -1.886 dBm -1.886 dBm Center 2.48000000 0.00 1 1 5 Start	ісу
Log Image: Control with the second seco	Tune
0.00 Start	r Freq 00 GHz
-10.0	t Freq 00 GHz
-20.0 -30.0	o Freq 00 GHz
-40.0	- Step 00 kHz Mar
-60.0 Freq O	Offset 0 Hz
Total Span 5.000 MHz #Res BW 1.5 MHz #VBW 5.0 MHz	
MSG STATUS	

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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT					
Annlinghla Limita	Applicable Limits				
Applicable Limits	Test Data	Criteria			
	Low Channel	692.4	PASS		
>500KHZ	Middle Channel	689.1	PASS		
	High Channel	694.0	PASS		



TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power	At least -20dBc than the reference level	PASS			

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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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	GFSK MIC	ob o El titlo			
Keysight Spectrum Analyzer - Swe	ept SA	CENCE IN		05-41-50 PM 0-+ 20, 2020	
Center Fred 2.44000	00000 GHz	SENSE:IN	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
50mon 110q 2.44000	PNO: Wide +	Trig: Free Run	Avg Hold: 10/10		
	IFGain:Low	Atten: 30 dB		52.1	Auto Tune
			Mkr1 2	.439 991 5 GHz	Auto Tulk
10 dB/div Ref 20.00 c	dBm			-2.108 dBm	
10.0					Conton From
10.0		<u> </u> 1			Center Fred
0.00			\sim		2.440000000 GH2
-10.0					
-20.0					Start Free
-30.0					2 438500000 GH
-40.0					2.40000000000
50.0				and a farmer of the second	
					Stop Free
-60.0					2.441500000 GH
-70.0					
Center 2 440000 CH-				Spap 3 000 MHz	05.01
#Res BW 100 kHz	#VB	W 300 kHz	Sweep 2.0	Span 3.000 MH2 000 ms (30000 pts)	300.000 kHz
MKR MODE TRC SCL	X	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto War
1 N 1 f	2.439 991 5 GHz	-2.108 dBm			
3					Freq Offset
4					0 Hz
6					
7					
9					
10					
				~	
11 		III			
✓ MSG		m	STATUS	•	
MSG	Lent SA		STATUS	• • •	
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It Keysight Spectrum Analyzer - Swe It Keysight Spectrum Analyzer - Swe It Register Freq 1.21500 Center Freq 1.21500 10 dB/div Ref 20.00 c 11 dV Ref 20.00 c 12 dV Ref 20.00 c 13 dV Ref 20.00 c 14 dV Ref 20.00 c 15 dV Ref 20.00 c 16 dV Ref 20.00 c <t< td=""><td>ept SA AC CORREC DO000 GHZ PNO: Fast + IFGain:Low dBm dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm dBm dBm dBm dBm dBm dBm dBm</td><td></td><td>STATUS STATUS STATUS SUPERIOR SUPERIOR</td><td>05:42:07 PM Oct 29, 2020 TRACE 1, 23 4,5 6 TYPE MANNANA 1, 22:311,99 GHz -50.905 dBm 22:11-dbn 22:11-dbn 3, 20:00 CHz 8,0 ms (30000 pts) FUNCTION VALUE</td><td>Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 MHz Stop Frec 2.400000000 GHz CF Step 237.000000 MHz Auto Freq Offset 0 Hz</td></t<>	ept SA AC CORREC DO000 GHZ PNO: Fast + IFGain:Low dBm dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm k dBm dBm dBm dBm dBm dBm dBm dBm		STATUS STATUS STATUS SUPERIOR	05:42:07 PM Oct 29, 2020 TRACE 1, 23 4,5 6 TYPE MANNANA 1, 22:311,99 GHz -50.905 dBm 22:11-dbn 22:11-dbn 3, 20:00 CHz 8,0 ms (30000 pts) FUNCTION VALUE	Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 MHz Stop Frec 2.400000000 GHz CF Step 237.000000 MHz Auto Freq Offset 0 Hz

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Web: http://cn.agc-cert.com/



Keysight Spectrum Analyzer - S	wept SA	SENSE-INT		05:44:47 PM Oct 29, 2020	
Center Freq 2.4800	000000 GHz		Avg Type: Log-Pwr	TRACE 123456	Frequency
	PNO:Wide ← IFGain:Low	Atten: 30 dB	Avg Hold: 10/10		
			Mkr1 2	479 991 2 GHz	Auto Tune
10 dB/div Ref 20.00	dBm			-1.998 dBm	
Log					
10.0		1			Center Free
0.00					2.48000000 GHz
-10.0			×		
-20.0					Start Free
-30.0					2.478500000 GH
-40.0				have a second	
-50.0				- Annual Contraction of the second se	
-60.0					Stop Free
-70.0					2.481500000 GH:
10.0					
Center 2.480000 GH:	z			Span 3.000 MHz	CF Step
#Res BW 100 kHz	#VB	W 300 kHz	Sweep 2.0	000 ms (30000 pts)	300.000 kHz
MKR MODE TRC SCL	Х	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Mar Mar
1 N 1 f	2.479 991 2 GHz	-1.998 dBm			
3					Freq Offse
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Keysight Spectrum Analyzer - S	wept SA	SENSE-INT		15:44:55 PM Oct 29, 2020	
Keysight Spectrum Analyzer - S Center Freq 1.2150	wept SA Ω AC CORREC 000000 GHz	SENSE:INT	ALIGN AUTO AVG Type: Log-Pwr	05:44:56 PM Oct 29, 2020	Frequency
Keysight Spectrum Analyzer - S Canter Freq 1.2150	wept SA Ω AC CORREC D00000 GHZ PNO: Fast + IEGain: I ow	SENSE:INT → Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:56 PM Oct 29, 2020 TRACE 1 2 3 4 5 6 TYPE M	Frequency
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Keysight Spectrum Analyzer - 5 Ref 20.00 RL RF 50 Center Freq 1.2150	weet SA Ω AC CORREC 100000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:44:56 PM oct 29, 2020 TRACE 1 2 3 4 5 6 TYPE WWWWW DET PNNNNN 1 2.351 81 GHz -50.201 dBm	Frequency Auto Tune Center Freq 1.215000000 GH
Keysight Spectrum Analyzer - S RL RF S0 Center Freq 1.2150	weept SA Ω AC CORREC 100000 GHZ PNO: Fast ← IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE 12 3 4 5 6 TPE 12 3 4 5 6 DET PNNNNN 1 2:351 81 GHz -50:201 dBm	Frequency Auto Tune Center Free 1.21500000 GH
Keysight Spectrum Analyzer - S RL RF S0 Center Freq 1.2150	weet SA Ω AC CORREC 100000 GHZ PNO: Fast ← IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE 12 3 4 5 6 TPE 12 3 4 5 6 DET PNNNNN 1 2:351 81 GHz -50.201 dBm	Frequency Auto Tune Center Free 1.21500000 GH3 Start Free 30,00000 MH3
Keysight Spectrum Analyzer - S R	weet SA Ω AC CORREC 100000 GHZ PN0: Fast ← IFGain:Low	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE 12 23 4 5 6 Type 10 29 4 5 6 Type 10 20 4 5 6 Type 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Frequency Auto Tune Center Free 1.21500000 GH3 Start Free 30.000000 MH3
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Keysight Spectrum Analyzer - S RL RF S0 Center Freq 1.2150 O dB/div Ref 20.00 10 dB/div Ref 20.00	weet SA Ω. AC CORREC PNO: Fast → IFGain:Low I dBm	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE 12 23 4 5 6 TYPE 12 24	Frequency Auto Tune Center Free 1.215000000 GH: Start Free 30.000000 MH: Stop Free 2.400000000 GH:
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iiii Reside to the sector of the	wept SA Ω. AC CORREC PNO: Fast → IFGain:Low I dBm I dB	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE 0 3 4 5 6 TYPE 0 3 4 5 6 TYP	Frequency Auto Tune Center Freq 1.21500000 GH: Start Freq 30.00000 MH: CF Step 2.40000000 GH:
iiii Register Spectrum Analyzer - S Center Freq 1.2150 10 dB/div Ref 20.00 Log	weet SA Ω AC CORREC PNO: Fast IFGain:Low CBM COMPACT COMPACT PODE	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE TYPE DET DET NNNNN 1 2.351 81 GHz -50.201 dBm -22.00 dBm -22.0	Frequency Auto Tune Center Freq 1.215000000 GH: Start Freq 30.000000 MH; CF Step 237.000000 MH; Auto Mar
iiii Register Spectrum Analyzer - S IX RL RF 50 Center Freq 1.2150 1.2150 10 dB/div Ref 20.00 10.0	wept SA Ω AC CORREC 100000 GHz PN0: Fast PMD: Fast - dBm - <tr< td=""><td>Frig: Free Run Atten: 30 dB</td><td>ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr Sweep 22 FUNCTION FUNCTION WIDTH</td><td>05:44:56 PM Oct 29, 2020 TRACE 12, 23 4 5 6 TYPE 12, 24 5 6 TYPE</td><td>Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH CF Step 237.000000 MH Auto Mar</td></tr<>	Frig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr Sweep 22 FUNCTION FUNCTION WIDTH	05:44:56 PM Oct 29, 2020 TRACE 12, 23 4 5 6 TYPE 12, 24 5 6 TYPE	Frequency Auto Tune Center Free 1.215000000 GH Start Free 30.000000 MH Stop Free 2.400000000 GH CF Step 237.000000 MH Auto Mar
iiii Register Spectrum Analyzer - S IX RL RF SO Center Freq 1.2150 SO SO SO 10 dB/div Ref 20.00 SO SO 10.0	weet SA Ω. AC CORREC 100000 GHz PNO: Fast → IGBM	Frig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKT	05:44:56 PM Oct 29, 2020 TRACE 17 YE 10 3 4 5 6 TYPE 10 3 5 6 TYPE 10 5	Frequency Auto Tune Center Freq 1.21500000 GH: Start Freq 30.00000 MH: CF Step 237.000000 MH: Auto Mar Freq Offse
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iiii Keysight Spectrum Analyzer - 5 IX RL RF 50 Center Freq 1.2150 Image: Spectrum Analyzer - 5 Spectrum Analyzer - 5 10 dB/div Ref 20.00 10.0 Image: Spectrum Analyzer - 5 Spectrum Analyzer - 5 10.0 Image: Spectrum Analyzer - 5 Spectrum Analyzer - 5 10.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 20.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 30.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 30.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 30.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 30.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 30.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 30.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 31.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 32.0 Image: Spectrum Analyzer - 5 Image: Spectrum Analyzer - 5 33.0 I	weept SA Ω AC CORREC D00000 GHz PN0: Fast - PRO: Fast - - CBM - - CAB - - X - - CAB<	SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr	05:44:56 PM Oct 29, 2020 TRACE 12 3:4 5 6 TVPE 02 3:4 5 6 DET NNNNN 1 2.351 81 GHz -50.201 dBm 2000 dBr 2000 dBr Stop 2.400 GHz 8.0 ms (30000 pts) FUNCTION VALUE	Frequency Auto Tune Center Frec 1.215000000 GH: Start Frec 30.000000 GH: Stop Frec 2.40000000 GH: Auto Mar Freq Offset 0 H:
Keysight Spectrum Analyzer - S ID RL RF SO Center Freq 1.2150 IO Bld/div Ref 20.00 IO IO IO IO IO IO IO IO IO IOO IO IO	weept SA Ω AC CORREC PNO: Fast IFGain:Low	Frig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr Avg Hold: 10/10 Sweep 22 FUNCTION FUNCTION WIDTH	05:44:56 PM Oct 29, 2020 TRACE 12 3:4 5 6 TYPE 12 5 7 TYPE	Frequency Auto Tune Center Frec 1.215000000 GHz Start Frec 30.000000 GHz 2.40000000 GHz Auto Mar Freq Offset 0 Hz

Sompliance Dedicated Fe Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the soleciated resistanp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter exchorization of AG 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 to AGC by agc@agc-cert.com. /Inspection The test results ne test report. Bf





🎉 Keysight Spectrum Analyzer - Swept SA					
XIRL RF 50Ω AC		SENSE:INT	ALIGN AU	TO 05:45:22 PM Oct 29, 2020	Frequency
	PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 10/10		
10 dB/div Ref 20.00 dBm			Μ	kr1 24.298 0 GHz -48.414 dBm	Auto Tune
10.0 0.00 -10.0					Center Freq 13.750000000 GHz
-20.0					Start Freq 2.500000000 GHz
-50.0 -60.0 -70.0					Stop Freq 25.00000000 GHz
Start 2.50 GHz #Res BW 100 kHz	#VBW :	300 kHz		Stop 25.00 GHz p 2.152 s (30000 pts)	CF Step 2.25000000 GHz <u>Auto</u> Man
1 N 1 f 24 2 3 4 4 5 6 6 6 7 7 8 9 9 9 9 10 11<	1.298 0 GHz	48.414 dBm			Freq Offset 0 Hz
MSG			ST	ATUS	

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

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

Refer to Section 7.2.

10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-19.664	8	Pass
Middle Channel	-19.713	8	Pass
High Channel	-19.643	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

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

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11.2. TEST SETUP



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11.3. 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.

11.4. 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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EUT		Distancing Alarm			Model Name		K59		
Tempera	mperature 25° C Relative Humidity		55.4%						
Pressur	e		960hPa	~GO	-C	Test Voltage	9	Normal Voltage Horizontal	
Test Mo	de		Mode 3		2	Antenna			
	130	1		1 1	FCC Part 15C	1			
	120 110 100 90 80 70 60 50 40 00								
	20 10 -10 30M	*	A. A.	100M		and the second descent		16	
	-	QP Limit QP Detector	Horizontal Pk	C	Frequency[Hz]				
	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Polarity	
	1	48.4300	23.65	11.71	40.00	16.35	360	Horizontal	
	2	62.9800	25.08	10.42	40.00	14.92	356	Horizontal	
	3	119.240	20.74	13.39	43.50	22.76	48	Horizontal	
	4	193.930	19.53	12.34	43.50	23.97	292	Horizontal	
	5	315.180	26.72	16.48	46.00	19.28	242	Horizontal	

46.00

11.26

359

Horizontal

RADIATED EMISSION BELOW 1GHZ

RESULT: PASS

6

734.220

34.74

26.83

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Angle [°]	Polarity
1	40.6700	27.92	11.91	40.00	12.08	293	Vertical
2	48.4300	29.15	11.71	40.00	10.85	144	Vertical
3	52.3100	28.57	11.49	40.00	11.43	101	Vertical
4	149.310	23.35	14.88	43.50	20.15	2	Vertical
5	237.580	24.28	14.65	46.00	21.72	53	Vertical
6	690.570	32.50	25.84	46.00	13.50	261	Vertical

RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin= Limit –Level.
- 2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	46.54	0.08	46.62	74	-27.38	peak
4804.000	36.26	0.08	36.34	54	-17.66	AVG
7206.000	39.15	2.21	41.36	74	-32.64	peak
7206.000	32.03	2.21	34.24	54 💿	-19.76	AVG
C.	3			- 6	®	
	. 6	8				8
Remark:		<u> </u>				
Factor = Anter	na Factor + Cab	le Loss – Pre-	amplifier.	(2)		

EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.69	0.08	45.77	74	-28.23	peak
4804.000	35.75	0.08	35.83	54 💿	-18.17	AVG
7206.000	39.46	2.21	41.67	74	-32.33	peak
7206.000	31.36	2.21	33.57	54	-20.43	AVG
						6
emark:			60	0	0	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	47.87	0.14	48.01	74	[©] -25.99	peak
4880.000	36.66	0.14	36.8	54	-17.2	AVG
7320.000	40.59	2.36	42.95	74	-31.05	peak
7320.000	33.45	2.36	35.81	54	-18.19	AVG
œ				0		
C	8			C.	B	
Remark:	- 61	®			- 6	8
Factor = Anter	na Factor + Cable	Loss - Pre-	amplifier.			e.C

EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Malua Tar
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	47.76	0.14	47.9	74	-26.1	peak
4880.000	39.41	0.14	39.55	54	-14.45	AVG
7320.000	41.23	2.36	43.59	74	-30.41	peak
7320.000	33.25	2.36	35.61	54	-18.39	AVG
		-0-	0			69
emark:			100	6	8	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

leter Reading	Factor	Emission Level	Limits	Margin		
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
45.82	0.22	46.04	74	[©] -27.96	peak	
36.41	0.22	36.63	54	-17.37	AVG	
39.36	2.64	42	74	-32	peak	
30.59	2.64	33.23	54	-20.77	AVG	
			0			
ß				Ċ		
	3			- 6	ß	
Factor + Cable	Loss - Pre-	amplifier.			e G	
	leter Reading (dBµV) 45.82 36.41 39.36 30.59 Factor + Cable	leter Reading Factor (dBμV) (dB) 45.82 0.22 36.41 0.22 39.36 2.64 30.59 2.64 Factor + Cable Loss – Pre-	leter Reading Factor Emission Level (dBµV) (dB) (dBµV/m) 45.82 0.22 46.04 36.41 0.22 36.63 39.36 2.64 42 30.59 2.64 33.23 Factor + Cable Loss – Pre-amplifier.	leter Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 45.82 0.22 46.04 74 36.41 0.22 36.63 54 39.36 2.64 42 74 30.59 2.64 33.23 54 Factor + Cable Loss – Pre-amplifier.	leter Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBµV/m) (dB) 45.82 0.22 46.04 74 -27.96 36.41 0.22 36.63 54 -17.37 39.36 2.64 42 74 -32 30.59 2.64 33.23 54 -20.77 Factor + Cable Loss – Pre-amplifier.	

			8)
EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.69	0.22	45.91	74	-28.09	peak
4960.000	35.54	0.22	35.76	54	-18.24	AVG
7440.000	39.52	2.64	42.16	74	-31.84	peak
7440.000	30.47	2.64	33.11	54	-20.89	AVG
		- Ci	(A)		<u> </u>	c.C
emark:			C.	©		
actor - Anto	nna Eactor + Cabla	Loco Dro c	molifior			

Factor = Antenna Factor + Cable Loss – Pre-amplifier

RESULT: PASS

Note:

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

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

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

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TEST RESULT ON RESTRICTED DANDS REQUIREMENTS					
EUT	Distancing Alarm	ng Alarm Model Name			
Temperature	25° C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 1	Antenna	Horizontal		
Test Mode	Mode 1	Antenna	Horizontal		

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK



AV



RESULT: PASS

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





RESULT: PASS

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





RESULT: PASS

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EUT	Distancing Alarm	Model Name	K59
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



RESULT: PASS Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

"Bedicated Fest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pestu Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGE presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuence a a/Inspection The test results Bf the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

#VBW 3.0 MHz*

31.267 dBµV/

2.480 100 GHZ 2.483 500 GHZ 2.483 525 GHZ

uto

Freq Offse 0 Hz

12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	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 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. 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 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.

12.4. 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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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "agc_fin"

2020/10/29 14:38 Frequency ΡE Level Transd Limit Margin Line Detector MHz dBµV dB dBuV dB 0.150000 38.40 11.3 66 27.6 QP L1GND 0.302000 25.00 11.3 60 35.2 QP L1GND 0.434000 26.70 11.3 57 30.5 L1GND QP 0.562000 30.50 11.3 56 25.5 L1GND QP 0.730000 22.00 56 34.0 GND 11.3 QP L11.362000 19.10 11.3 56 36.9 QP L1GND

MEASUREMENT RESULT: "agc_fin2"

2020/10/29 1	4:39						
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.150000	32.80	11.3	56	23.2	AV	L1	GND
0.306000	14.80	11.3	50	35.3	AV	L1	GND
0.434000	12.10	11.3	47	35.1	AV	L1	GND
0.562000	12.50	11.3	46	33.5	AV	L1	GND
0.778000	13.30	11.3	46	32.7	AV	L1	GND
1.350000	11.30	11.3	46	34.7	AV	L1	GND

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