

RF EXPOSURE EVALUATION REPORT

Product Name: IP Phone

Trade Mark: GRANDSTREAM

Model No. / HVIN: GRP2616

Add. Model No. / HVIN: N/A

Report Number: 190708003RFC-5

Test Standards: FCC 47 CFR Part 1 Subpart I

RSS-102 Issue 5

FCC ID: YZZGRP2616

IC: 11964A-GRP2616

Test Result: PASS

Date of Issue: August 29, 2019

Prepared for:

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Prepared by:

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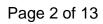
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Date:

August 29, 2019

Billy Li Technical Director



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Version

Version No.	Date	Description
V1.0	August 29, 2019	Original



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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	Grandstream Networks, Inc.	
Address of Applicant: 126 Brookline Ave., 3rd Floor, Boston, MA 02215, USA		
Manufacturer:	Grandstream Networks, Inc.	
Address of Manufacturer:	126 Brookline Ave., 3rd Floor, Boston, MA 02215, USA	

1.2 EUT INFORMATION

Product Name:	IP Phone				
Model No. / HVIN:	GRP2616				
Add. Model No. / HVIN:	N/A				
Trade Mark:	GRANDSTREAM				
DUT Stage:	Identical Prototype				
	2.4 GHz ISM Band:	IEEE 802.11b/g/n			
	2.4 GHZ ISIVI Bariu.	Bluetooth V4.2			
EUT Supports Function:	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac		
Lor Supports runction.		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac		
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac		
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac		
Software Version:	0.7.18.50				
Hardware Version:	V1.0				

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_LE	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	3.5 dBi
Maximum Peak Power:	3.15 dBm

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	3.5 dBi
Maximum Peak Power:	8.17 dBm

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For 2.4 GHz ISM Band of W	For 2.4 GHz ISM Band of Wi-Fi			
Frequency Band:	2400 MHz to 2483.5 MHz			
Frequency Range:	Range: 2412 MHz to 2462 MHz			
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20			
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64-QAM, 16-QAM, QPSK, BPSK)			
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7			
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11			
Channel Separation:	5 MHz			
Antenna Type:	Dipole Antenna			
Antenna Gain:	3.5 dBi			
Maximum Peak Power:	IEEE 802.11b: 17.64 dBm IEEE 802.11g: 22.88 dBm IEEE 802.11n-HT20: 22.78 dBm			

For 5 GHz U-NII Bands of V	For 5 GHz U-NII Bands of Wi-Fi			
	5150 MHz to 5250 MHz (U-NII-1)			
Frequency Bands:	5250 MHz to 5350 MHz (U-NII-2A)			
Frequency Bands.	5470 MHz to 5725 MHz (U-NII-2C)			
	5 725 MHz to 5 850 MHz (U-NII-3)			
	5180 MHz to 5240 MHz			
Fraguency Bangas	5260 MHz to 5320 MHz			
Frequency Ranges:	5500 MHz to 5700 MHz			
	5 745 MHz to 5 825 MHz			
Support Standards:	IEEE 802.11a/n/ac			
TPC Function:	Not Support			
DFS Operational mode:	Slave without radar Interference detection function			
	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)			
Type of Modulation:	IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)			
	IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK)			
	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz			
Channel Spacing:	IEEE 802.11n-HT40/ac-VHT40: 40 MHz			
	IEEE 802.11ac-VHT80: 80 MHz			
	IEEE 802.11a: Up to 54 Mbps			
	IEEE 802.11n-HT20: Up to MCS7			
Data Rate:	IEEE 802.11n-HT40: Up to MCS7			
Data Nato.	IEEE 802.11ac-VHT20: Up to MCS8			
	IEEE 802.11ac-VHT40: Up to MCS9			
	IEEE 802.11ac-VHT80: Up to MCS9			
	5150 MHz to 5250 MHz:			
	4 for IEEE 802.11a/n-HT20/ac-VHT20			
Number of Channels:	2 for IEEE 802.11n-HT40)/ac-VHT40			
	1 for IEEE 802.11acVHT80			
	5250 MHz to 5350 MHz:			
	4 for IEEE 802.11a/n-HT20/ac-VHT20			



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	2 for IEEE 802.11n-HT40)/ac-VHT40 1 for IEEE 802.11acVHT80					
	5470 MHz to 5725 MHz:					
	11 for IEEE 802.11a/n-HT20/ac-VHT20					
	5 for IEEE 802.		_			
	2 for IEEE 802.	11ac-VHT80				
	5725 MHz to 5850 MHz:		\/LIT00			
	5 for IEEE 802. 2 for IEEE 802.					
	1 for IEEE 802.		_			
Antenna Type:	Dipole Antenna					
	5150 MHz to 5250 MHz:	4 dBi				
Antenna Gain:	5250 MHz to 5350 MHz: 4 dBi					
Antenna Gam.	5470 MHz to 5725 MHz: 4 dBi					
	5725 MHz to 5850 MHz:	4 dBi				
	Chain 0 U-NII-1			U-NII-1		
	IEEE 802.11a:		20.27			
	IEEE 802.11n-HT20:		20.11			
Maximum EIRP (dBm):	IEEE 802.11n-HT40:		19.91			
	IEEE 802.11ac-VHT20:		20.09			
	IEEE 802.11ac-VHT40:		19.95			
	IEEE 802.11ac-VHT80:		19.74			
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
	IEEE 802.11a:	16.27	16.24	15.80	15.50	
Maximum conducted	IEEE 802.11n-HT20:	16.11	16.02	15.28	15.13	
output power (dBm):	IEEE 802.11n-HT40:	15.91	15.83	15.72	15.00	
	IEEE 802.11ac-VHT20	16.09	15.77	15.40	15.23	
	IEEE 802.11ac-VHT40 15.95		15.87	15.48	15.06	
	IEEE 802.11ac-VHT80: 15.74 15.41			15.16	14.47	

1.40THER INFORMATION

Test channels for BT_LE						
Type of Modulation	Tx/Rx Frequency	equency Test RF Channel Lists				
		Lowest(L)	Middle(M)	Highest(H)		
GFSK 2402 MHz to 2480 MHz	2402 MHz to 2480 MHz	Channel 0	Channel 19	Channel 39		
		2402 MHz	2440 MHz	2480 MHz		

Test channels for BT_EDR					
Mode	Tx/Rx Frequency	Test RF Channel Lists			
Wode		Lowest(L)	Middle(M)	Highest(H)	
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz	
8DPSK 24	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78	
(DH1, DH3, DH5)	2402 WITZ 10 2460 WITZ	2402 MHz	2441 MHz	2480 MHz	

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Test channels for 2.4 GHz ISM Band of Wi-Fi					
Modo	Tx/Rx Frequency	Test RF Channel Lists			
Mode		Lowest(L)	Middle(M)	Highest(H)	
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
		2412 MHz	2437 MHz	2462 MHz	
IEEE 000 44 m	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
IEEE 802.11g		2412 MHz	2437 MHz	2462 MHz	
IEEE 000 44 - LIT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11	
IEEE 802.11n-HT20		2412 MHz	2437 MHz	2462 MHz	

Test channels for 5 GH	z U-NII Bands of Wi-Fi					
Mada	Ty/Dy Francisco	Test RF Channel Lists				
Mode	Tx/Rx Frequency	Lowest(L)	Middle(M)	Highest(H)		
	5150 MHz to 5250 MHz	Channel 36	Channel 44	Channel 48		
	3 130 MHZ 10 3230 MHZ	5180 MHz	5220 MHz	5240 MHz		
	5250 MHz to 5350 MHz	Channel 52	Channel 60	Channel 64		
IEEE 802.11a IEEE 802.11n-HT20	3230 WITZ to 3330 WITZ	5260 MHz	5300 MHz	5320 MHz		
IEEE 802.1111-H120	5470 MHz to 5725 MHz	Channel 100	Channel 116	Channel 140		
	3470 IVITIZ (0 3723 IVITIZ	5500 MHz	5580 MHz	5700 MHz		
	5725 MHz to 5850 MHz	Channel 149	Channel 157	Channel 165		
	3723 WITZ 10 3630 WITZ	5745 MHz	5785 MHz	5825 MHz		
	5150 MHz to 5250 MHz	Channel 38		Channel 46		
	3130 WH 12 to 3230 WH 12	5190 MHz		5230 MHz		
	5250 MHz to 5350 MHz	Channel 54		Channel 62		
IEEE 802.11n-HT40	3230 IVITZ 10 3330 IVITZ	5270 MHz		5310 MHz		
IEEE 802.11ac-VHT40	5470 MHz to 5725 MHz	Channel 102	Channel 110	Channel 134		
	3470 IVITIZ (0 3723 IVITIZ	5510 MHz	5550 MHz	5670 MHz		
	5725 MHz to 5850 MHz	Channel 151		Channel 159		
	3723 IVITZ 10 3630 IVITZ	5755 MHz		5795 MHz		
	5150 MHz to 5250 MHz		Channel 42			
	3130 MHZ 10 3230 MHZ		5210 MHz			
	5250 MHz to 5350 MHz		Channel 58			
IEEE 902 1100 V/UT90	3230 NIUS 10 3330 NIUS		5290 MHz			
IEEE 802.11ac-VHT80	5470 MHz to 5725 MHz	Channel 106				
	3470 WITZ 10 3723 WITZ	5530 MHz				
	5725 MHz to 5850 MHz		Channel 155			
	ST 23 INITIZ TO 3030 INITIZ	-	5775 MHz			



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1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I RSS-102 Issue 5

All test items have been performed and recorded as per the above standards

1.6 DEVIATION FROM STANDARDS

None.

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.



3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title		
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969		
2	RSS-102 Issue 5	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)		
3	KDB 447498 D01 General RF Exposure Guidance v06 RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES			

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3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

3.2.1.1 FCC 47 CFR Part 1 Subpart I

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	F/300	6
1500-100000	1	1	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m) Power Density (S) (mW/cm²)		Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500		1	F/1500	30
1500-100000		1	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.



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3.2.1.2 RSS-102 Issue 5

According to RSS-102 Issue 5, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

According to RSS-102 Issue 5, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 4.49/f^{0.5} W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the
 device is equal to or less than 1.31 x 10⁻² f^{0.6834} W (adjusted for tune-up tolerance), where f is in
 MHz:
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

FCC 47 CFR Part 1 Subpart I

 $S = PG/4\pi R^2 = EIRP/4\pi R^2$

S = power density (in appropriate units, e.g., mw/cm2)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and

operating at 5470 MHz to 5725 MHz for IEEE802.11a/n/ac and

operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

Chain 0: Dipole Antenna

3.4.1.2 Antenna Gain:

Chain 0: 2412MHz to 2462 MHz: 3.5 dBi

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5150 MHz to 5250 MHz: 4 dBi 5250 MHz to 5350 MHz: 4 dBi 5470 MHz to 5725 MHz: 4 dBi 5725 MHz to 5850 MHz: 4 dBi

3.4.1.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)		(dBi)	(dBm)	(mW)	(mW	/cm²)
IEEE 802.11b	2412-2462	13	2	3.5	18.5	70.7946	1	0.0141
IEEE 802.11g	2412-2462	13	2	3.5	18.5	70.7946	1	0.0141
IEEE 802.11n- HT20	2412-2462	13	2	3.5	18.5	70.7946	1	0.0141
	5180-5240	15	2	4	21	125.8925	1	0.0250
IEEE 802.11a	5260-5320	15	2	4	21	125.8925	1	0.0250
IEEE 602.11a	5500-5700	15	2	4	21	125.8925	1	0.0250
	5745-5825	15	2	4	21	125.8925	1	0.0250
	5180-5240	15	2	4	21	125.8925	1	0.0250
IEEE 802.11n- HT20/ ac-	5260-5320	15	2	4	21	125.8925	1	0.0250
VHT20	5500-5700	15	2	4	21	125.8925	1	0.0250
=0	5745-5825	15	2	4	21	125.8925	1	0.0250
	5190-5230	15	2	4	21	125.8925	1	0.0250
IEEE 802.11n-	5270-5310	15	2	4	21	125.8925	1	0.0250
HT40/ ac- VHT40	5510-5670	15	2	4	21	125.8925	1	0.0250
	5755-5795	15	2	4	21	125.8925	1	0.0250
	5210	15	2	4	21	125.8925	1	0.0250
IEEE	5290	15	2	4	21	125.8925	1	0.0250
802.11ac- VHT80	5530	15	2	4	21	125.8925	1	0.0250
	5775	15	2	4	21	125.8925	1	0.0250

3.4.1.4 Results for RSS-102 Issue 5

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive Tolerance according manufacturer	Directional Gain	Calculated maximum EIRP	Declared maximum EIRP	Limit
	(MHz)	(dB	Sm)	(dBi)	(dBm)	(W)	(W)
IEEE 802.11b	2412-2462	13	2	3.5	18.5	0.0708	2.6840
IEEE 802.11g	2412-2462	13	2	3.5	18.5	0.0708	2.6840
IEEE 802.11n- HT20	2412-2462	13	2	3.5	18.5	0.0708	2.6840
	5180-5240	15	2	4	21	0.1259	4.5253
IEEE 802.11a	5260-5320	15	2	4	21	0.1259	4.5729
IEEE 602.11a	5500-5700	15	2	4	21	0.1259	4.7145
	5745-5825	15	2	4	21	0.1259	4.8570
	5180-5240	15	2	4	21	0.1259	4.5253
IEEE 802.11n- HT20/ ac-	5260-5320	15	2	4	21	0.1259	4.5729
VHT20	5500-5700	15	2	4	21	0.1259	4.7145
	5745-5825	15	2	4	21	0.1259	4.8570
	5190-5230	15	2	4	21	0.1259	4.5312
IEEE 802.11n- HT40/ ac-	5270-5310	15	2	4	21	0.1259	4.5789
VHT40	5510-5670	15	2	4	21	0.1259	4.7204
	5755-5795	15	2	4	21	0.1259	4.8628
	5210	15	2	4	21	0.1259	4.5432
IEEE 802.11ac-	5290	15	2	4	21	0.1259	4.5907
802.11ac- VHT80	5530	15	2	4	21	0.1259	4.7321
	5775	15	2	4	21	0.1259	4.8743

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3.4.2 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK and For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

Chain 0: Dipole Antenna

3.4.2.2 Antenna Gain:

Chain 0: 2402MHz to 2480 MHz: 3.5 dBi

3.4.2.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	(mW/	cm²)
LE	2402- 2480	2	1	3.5	3.15	2.065	1	0.0009
EDR	2402- 2480	8	2	3.5	8.17	6.561	1	0.0045

3.4.2.4 Results for RSS-102 Issue 5

Operating Mode	Freq.	Declared maximum conducted average output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	Limit
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(W)	(W)
LE	2402-2480	2	1	3.5	3.15	0.00207	2.6764
EDR	2402-2480	8	2	3.5	8.17	0.00656	2.6764

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

3.4.4.1 List of Mode for Simultaneous Multi-band Transmission

	No.	Configurations	Support/Not Support
	1	2.4G _WLAN + BT	Not Support
	2	5G_WLAN + BT	Not Support
Ī	3	2.4G _WLAN + 5G_WLAN	Not Support

3.4.4.2 Results for transmit simultaneously

Not applicable.



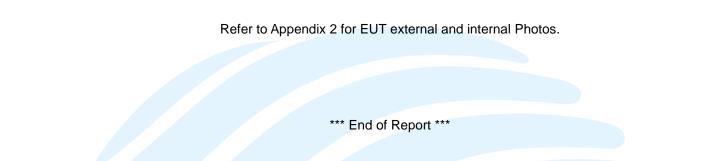
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APPENDIX 1 PHOTOS OF TEST SETUP

Not applicable

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APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS



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