



### 8-DPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



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### 8-DPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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### **11. RADIATED EMISSION**

### 11.1. TEST LIMIT

Frequency	Distance	Field Strengths Limit				
(MHz)	Meters	μ V/m	dB(µV)/m			
0.009 ~ 0.490	300	2400/F(kHz)	Marce (1) the stand control			
0.490 ~ 1.705	30	24000/F(kHz)	CC C			
1.705 ~ 30	30	30				
30 ~ 88	3	100	40.0			
88 ~ 216	3	150	43.5			
216 ~ 960	1 1 3 Th	200	46.0			
960 ~ 1000	3 Section of Cont	500	54.0			
Above 1000	3	Other:74.0 dB(µV)/m (Peak)	54.0 dB(µV)/m (Average)			

Remark: (1) Emission level dB $\mu$  V = 20 log Emission level  $\mu$  V/m.

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

### **11.2. MEASUREMENT PROCEDURE**

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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The following table is the setting of spectrum analyzer and receiver.

p.v.			2.4
	Spectrum Parameter	Setting	
K the manance	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP	
310 <sup>00</sup>	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP	ŝ
GG	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP	(
HEL.		1GHz~26.5GHz	C
	Start ~Stop Frequency	RBW 1MHz/ VBW 3MHz for Peak,	
Attestation of C	Contraction of the second seco	RBW 1MHz/ VBW 1MHz for Average	5

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

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### 11.3. TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



Spectrum Analyzer / Receiver

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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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### 11.4. TEST RESULT

### (Worst Modulation: 8DPSK)

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

No emission found between lowest internal used/generated frequencies to 30MHz. **RADIATED EMISSION BELOW 1GHz** 

### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		136.7000	-0.67	19.02	18.35	43.50	-25.15	peak			
2		330.7000	0.93	20.55	21.48	46.00	-24.52	peak			
3		464.8833	0.89	24.28	25.17	46.00	-20.83	peak			
4		531.1667	1.45	25.60	27.05	46.00	-18.95	peak			
5		746.1833	0.33	29.19	29.52	46.00	-16.48	peak			
6	*	901.3833	0.34	31.71	32.05	46.00	-13.95	peak			

**RESULT: PASS** 

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### RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	m dBuV/m dB	cm	degree			
1		160.9500	-1.09	19.09	18.00	43.50	-25.50	peak			
2		280.5833	0.37	19.93	20.30	46.00	-25.70	peak			
3		451.9500	0.35	24.02	24.37	46.00	-21.63	peak			
4		634.6333	2.05	27.37	29.42	46.00	-16.58	peak			
5		799.5333	0.81	30.40	31.21	46.00	-14.79	peak			
6	*	941.8000	1.05	32.06	33.11	46.00	-12.89	peak			

### **RESULT: PASS**

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

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3.All modes were tested, and only the data of worst case mode 10 was recorded in this report.

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RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR								
EUT :	BONX mini	Model Nam	ne. : BX3	S				
Temperature :	20 °C	Relative Hu	umidtity: 48%					
Pressure :	1010 hPa	Test Voltag	e : DC 3.7V	The state				
Test Mode :	Mode 7	Polarization	n : Horizontal	C Attestation of				

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	mtance C
4804.026	46.09	3.76	49.85	74	-24.15	peak
4804.026	44.61	3.76	48.37	54	-5.63	AVG
7206.039	35.65	8.17	43.82	74	-30.18	peak
7206.039	31.64	8.17	39.81	54	-14.19	AVG
Remark:				nce R . F	S Goba C	tation of Glou

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

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EUT :	BONX mini	Model Name. :	BX3
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 7	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.026	48.95	3.76	52.71	74	-21.29	peak
4804.026	43.09	3.76	46.85	54	-7.15	AVG
7206.039	38.21	8.17	46.38	74	-27.62	peak
7206.039	35.64	8.17	43.81	54	-10.19	AVG
Remark:						1
				15	ance the	mplia B

Factor = Antenna Factor + Cable Loss - Pre-amplifier

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EUT :	BONX mini	Model Name. :	BX3
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 8	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4882.032	46.7	3.78	50.48	74	-23.52	peak
4882.032	42.5	3.78	46.28	54	-7.72	AVG
7323.048	40.62	8.23	48.85	74	-25.15	peak
7323.048	39.15	8.23	47.38	54	-6.62	AVG
Remark:	C Allester	CO T			litter of	ALL THE
					- Ket allance	En compile

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

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EUT :	BONX mini	Model Name. :	BX3
Temperature :	<b>20</b> °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 8	Polarization :	Vertical

i dion	THESU .					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	C.C
4882.032	48.05	3.78	51.83	74	-22.17	peak
4882.032	43.63	3.78	47.41	54	-6.59	AVG
7323.048	39.61	8.23	47.84	74	-26.16	peak
7323.048	36.93	8.23	45.16	54	-8.84	AVG
Remark:	F Shoral Company	B & Frof Gobal Co	C Allestation	Allesian	Nº	
(Lonphic )	C an inon	a standard				

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

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EUT :BONX miniModel Name. :BX3Temperature :20 °CRelative Humidtity :48%	
Temperature : 20 °C Relative Humidtity : 48%	C A Chopal Chopal C C
	C The C
Pressure : 1010 hPa Test Voltage : DC 3	.7V
Test Mode : Mode 9 Polarization : Horization :	contal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.042	45.84	3.81	49.65	74	-24.35	peak
4960.042	43.35	3.81	47.16	54	-6.84	AVG
7440.063	38.96	8.27	47.23	74	-26.77	peak
7440.063	36.2	8.27	44.47	54	-9.53	AVG
Remark:	C Mest	CO T			in the second se	ALL STOR
				5	tet allance	En Compile

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

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EUT :	BONX mini	Model Name. :	BX3
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 9	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	value Type
4960.042	46.02	3.81	49.83	74	-24.17	peak
4960.042	44.33	3.81	48.14	54	-5.86	AVG
7440.063	40.18	8.27	48.45	74	-25.55	peak
7440.063	37.04	8.27	45.31	54	-8.69	AVG
Remark:	F Global Company	@ Thore in or Global Co	B Allestation	Allesia		

**Note:** Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

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

The 8DPSK modulation was the worst case and only the data of worst recorded in this report.

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### **12. BAND EDGE EMISSION**

### **12.1. MEASUREMENT PROCEDURE**

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency=Operation Frequency, For unrestricted band: RBW=100kHz, VBW=300kHz For restricted band: RBW=1MHz, VBW=3\*RBW
  - Center frequency = Operation frequency
- 3. The band edges was measured and recorded.



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### 12.3. TEST RESULT

#### FOR BR/EDR:

EUT :	BONX mini	Model Name. :	BX3
Temperature :	20 ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 7	Polarization :	Horizontal

# PK Value



AV Value



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EUT :	BONX mini	Model Name. :	BX3
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 7	Polarization :	Vertical



PK Value

AV Value



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EUT :	BONX mini	Model Name. :	BX3
Temperature :	<b>20</b> ℃	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 9	Polarization :	Horizontal



PK Value

AV Value



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EUT :	BONX mini	Model Name. :	BX3
Temperature :	20 °C	Relative Humidtity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 9	Polarization :	Vertical
		////>//////////////////////////////////	



PK Value

AV Value



### **RESULT: PASS**

**Note:** The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The 8DPSK modulation is the worst case and recorded in the report.

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### **13. NUMBER OF HOPPING FREQUENCY**

### **13.1. MEASUREMENT PROCEDURE**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=3RBW.

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





**RF** Cable

### **13.3. LIMITS AND MEASUREMENT RESULT**

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

### TEST PLOT FOR NO. OF TOTAL CHANNELS (1Mbps)

🎉 Agilent Spectrum Analyzer - Swept SA					- đ <del>- ×</del> -
Marker 1 Δ 78.002000000	MHz	Avg Type	ALIGN AUTO 08:37:58 PM : Log-Pwr TRAC	4 Mar 18, 2019 E <b>1 2 3 4 5 6</b>	Marker
	PNO: Fast Trig: Fre IFGain:Low Atten: 30	e Run Avg Hold: 0 dB	A Miler 4 70 0		Select Marker
10 dB/div Ref 20.00 dBm			<u>Дімікті 78.0</u> 1.	393 dB	1
	ለከስለሲሉስስስስስስስስስስስ	አለብብብስልስስ	<u>በብብብብብብብብብብብብብብብብብብብብብብብብብብብብብብ የ</u>	<u>1∆2</u>	Normal
-10.0	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AKARARAKAKATAKA	ÁÁÁÁAÁBKÁÁÁÁÁÁÁÁÁ		
-30.0				۱. ۱	Delta
-50.0					Fixed
-70.0					TACUP
Center 2.44175 GHz #Res BW 100 kHz	#VBW 300 kHz	:	Span 8 Sweep 8.267 ms (	6.00 MHz 1001 pts)	Off
MKR MODE TRC SCL X	8 002 MHz (Λ) 1 393	FUNCTION FUN	CTION WIDTH FUNCTIO	IN VALUE	
2 F 1 f 2.407 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 018 GHz 3.144 d	Bm			Properties►
					More
10					1 of 2
	m			•	
MOG			STATUS		

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### 14. TIME OF OCCUPANCY (DWELL TIME)

### **14.1. MEASUREMENT PROCEDURE**

1. Place the EUT on the table and set it in transmitting mode

2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.

- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

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





**RF** Cable

### **14.3. LIMITS AND MEASUREMENT RESULT**

	The Worst Case (3Mbps)			
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.917	31.6	311.15	400
Middle	2.933	31.6	312.85	400
High	2.933	31.6	312.85	400

Low Channel Time 2.917\*(1600/6)/79\*31.6=311.15ms Middle Channel Time 2.933\*(1600/6)/79\*31.6=312.85ms **High Channel Time** 2.933\*(1600/6)/79\*31.6=312.85ms

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### TEST PLOT OF LOW CHANNEL

### TEST PLOT OF MIDDLE CHANNEL



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### TEST PLOT OF HIGH CHANNEL

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### **15. FREQUENCY SEPARATION**

### 15.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth  $(RBW) \ge 1\%$  of the span Video (or Average) Bandwidth (VBW)  $\ge RBW$ ; Sweep = auto; Detector function = peak; Trace = max hold

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



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### **15.3. LIMITS AND MEASUREMENT RESULT**

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass

### TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



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### **16. LINE CONDUCTED EMISSION TEST**

### 16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Framman	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.

### 16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC voltage by battery which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 16.4. 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.

### 16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP



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# APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT

BOTTOM VIEW OF EUT



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### FRONT VIEW OF EUT



BACK VIEW OF EUT



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### LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 



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### **OPEN VIEW OF EUT-2**



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**INTERNAL VIEW OF EUT-1** 

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### **INTERNAL VIEW OF EUT-3**



### ----END OF REPORT----

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