



RADIATED EMISSION ABOVE 1GHZ

EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- value Type
4804.000	53.16	0.08	53.24	74	-20.76	peak
4804.000	47.18	0.08	47.26	54	-6.74	AVG
7206.000	47.65	2.21	49.86	74	-24.14	peak
7206.000	44.47	2.21	46.68	54	-7.32	AVG
707	20				20	
emark:						
actor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.	0		

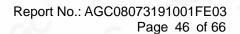
EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

						(9.)
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	52.94	0.08	53.02	74	-20.98	peak
4804.000	46.34	0.08	46.42	54	-7.58	AVG
7206.000	47.22	2.21 💿	49.43	74	-24.57	peak
7206.000	42.51	2.21	44.72	54	-9.28	AVG
8		10				
emark:			407	0	®	



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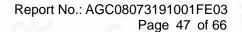


EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
52.64	0.14	52.78	74	-21.22	peak
45.38	0.14	45.52	54	-8.48	AVG
46.28	2.36	48.64	74	-25.36	peak
41.09	2.36	43.45	54	-10.55	AVG
			©		
- Ci	0		- CO	-6	©
	52.64 45.38 46.28 41.09	52.64 0.14 45.38 0.14 46.28 2.36 41.09 2.36	52.64 0.14 52.78 45.38 0.14 45.52 46.28 2.36 48.64	52.64 0.14 52.78 74 45.38 0.14 45.52 54 46.28 2.36 48.64 74 41.09 2.36 43.45 54	52.64 0.14 52.78 74 -21.22 45.38 0.14 45.52 54 -8.48 46.28 2.36 48.64 74 -25.36 41.09 2.36 43.45 54 -10.55

			4
EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
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Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	50.92	0.14	51.06	74	-22.94	peak
4882.000	44.87	0.14	45.01	54	-8.99	AVG
7323.000	45.53	2.36	47.89	74	-26.11	peak
7323.000	40.12	2.36	42.48	54	-11.52	AVG
mark:		1.G		0		





EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	51.62	0.22	51.84	74	-22.16	peak
4960.000	44.57	0.22	44.79	54	-9.21	AVG
7440.000	45.79	2.64	48.43	74	-25.57	peak
7440.000	39.41	2.64	42.05	54	-11.95	AVG
0	0		9		@	
emark:	- 0	0		100	- 0	@
ctor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			- 0

EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	49.89	0.22	50.11	74	-23.89	peak
4960.000	44.05	0.22	44.27	54	-9.73	AVG
7440.000	44.67	2.64	47.31	74	-26.69	peak
7440.000	38.39	2.64	41.03	54	-12.97	AVG
		307		0		- 6
Remark:	@		×0 -	G	8	
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been tested. Sim 8DPSK modulation +FM low channel is the worst case and recorded in the report.



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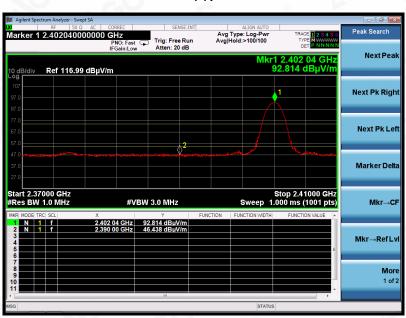
Service Hotline: 400 089 2118



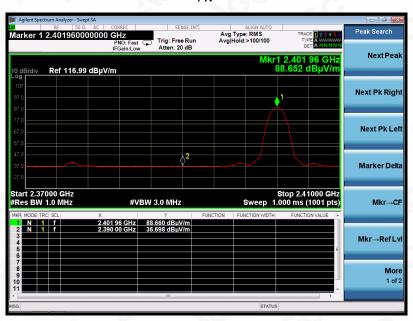
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	FM Transmitter	Model Name BH269A	
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

PK



ΑV



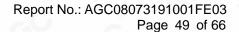
RESULT: PASS



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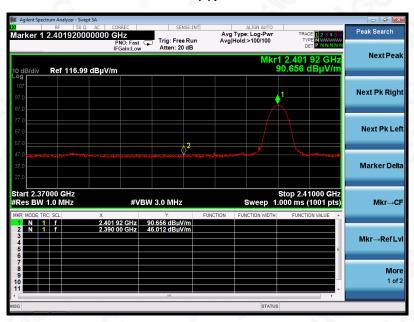
Service Hotline: 400 089 2118



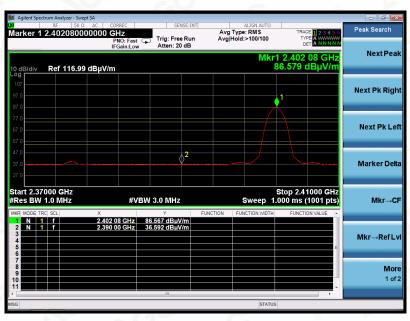


EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

PK



ΑV



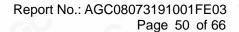
RESULT: PASS



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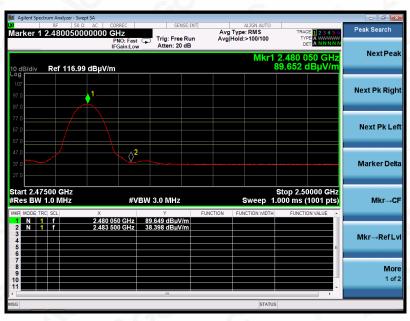


EUT	FM Transmitter	Model Name	BH269A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage Normal Voltage	
Test Mode	Mode 9	Antenna	Horizontal

PK



ΑV



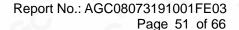
RESULT: PASS



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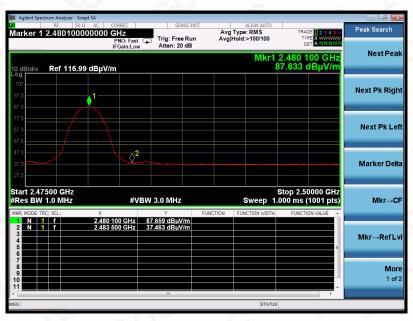


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Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

PK



ΑV



RESULT: PASS

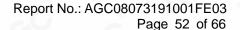
Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested.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



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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 3. VBW ≥ RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.
- 4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

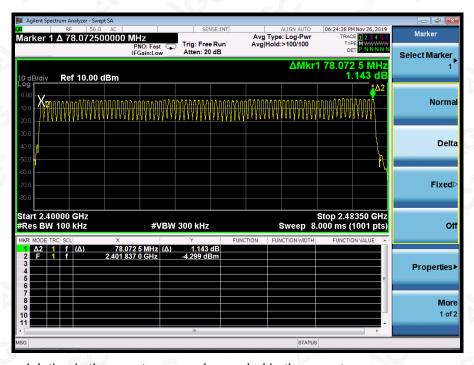
11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. 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



Note: The GFSK modulation is the worst case and recorded in the report.



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Zero span, centered on a hopping channel.
- 2. RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- 3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- 4. Detector function: Peak. Trace: Max hold.
- 5. Use the marker-delta function to determine the transmit time per hop.
- 6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

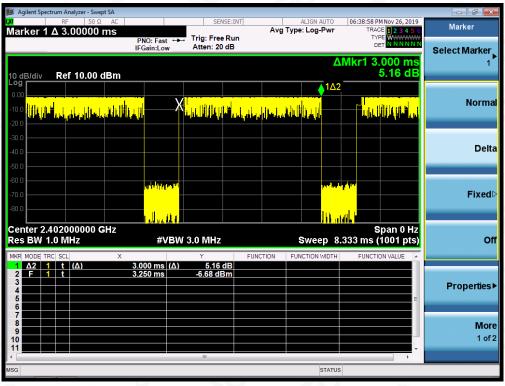
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	3.000	25*4	300.000	400
Middle	3.000	29*4	348.000	400
High	3.000	26*4	312.000	400

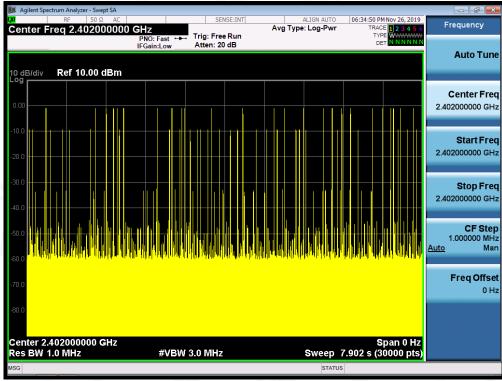
Note: The 8DPSK modulation is the worst case and recorded in the report.





TEST PLOT OF LOW CHANNEL







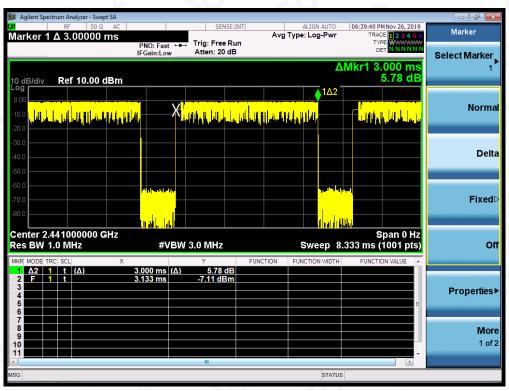
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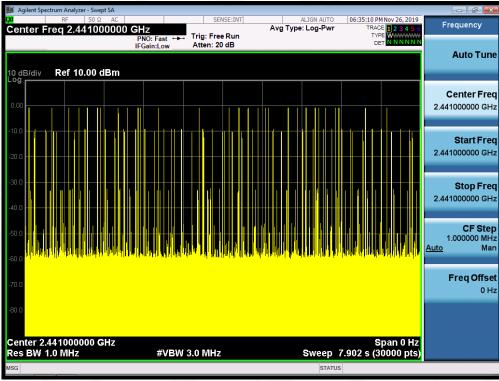
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TEST PLOT OF MIDDLE CHANNEL





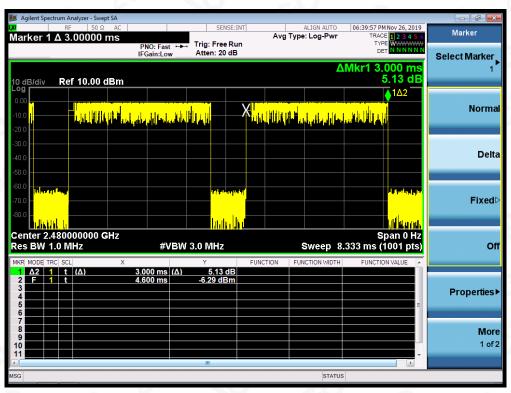


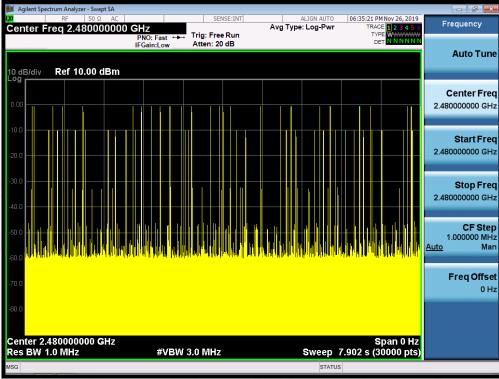
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TEST PLOT OF HIGH CHANNEL



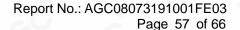




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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span: Wide enough to capture the peaks of two adjacent channels.
- 2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3. Video (or average) bandwidth (VBW) ≥ RBW.
- 4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION KHz	LIMIT (KHz)	RESULT
CH01-CH02	995	>=25 KHz or 2/3 20 dB BW	PASS

TEST PLOT FOR FREQUENCY SEPARATION



Note: The 8DPSK modulation is the worst case and recorded in the report.



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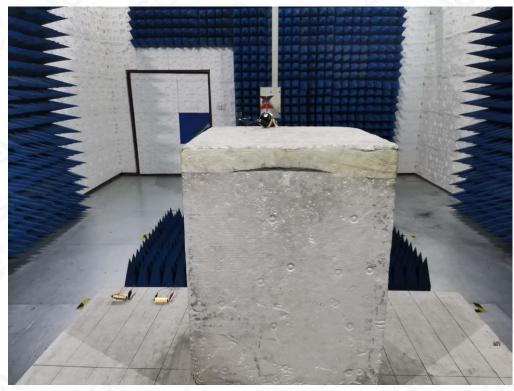


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



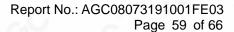


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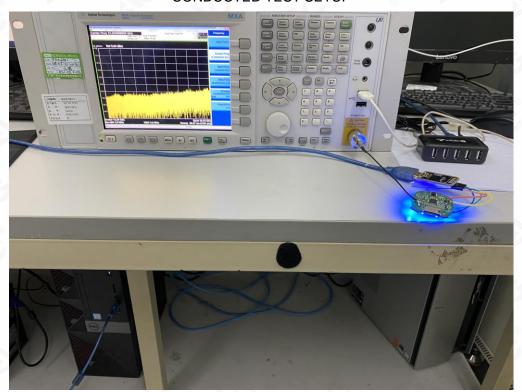
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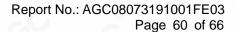
CONDUCTED TEST SETUP





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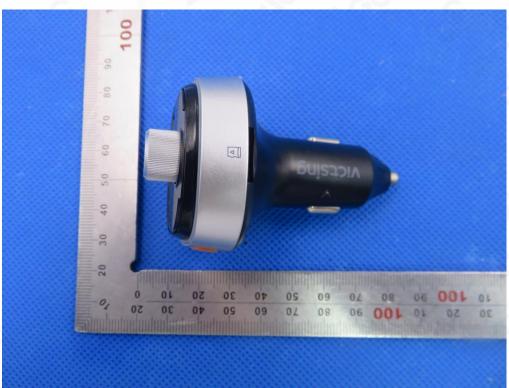
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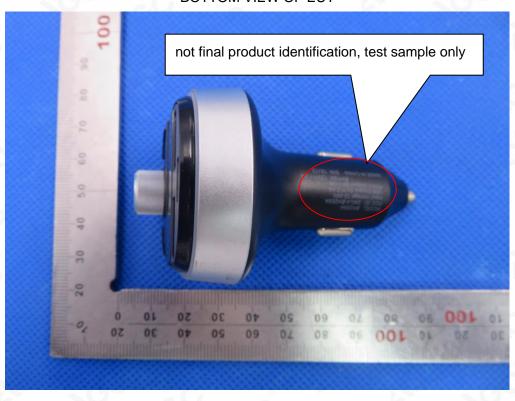


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT





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FRONT VIEW OF EUT



BACK VIEW OF EUT



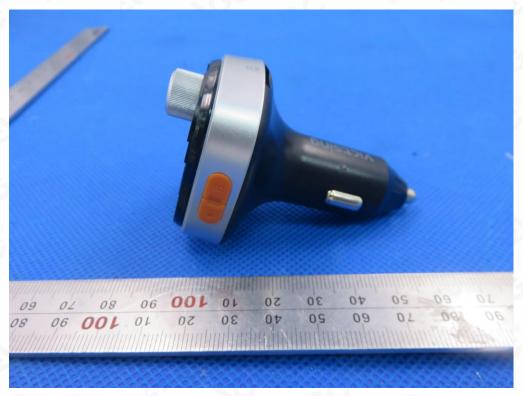


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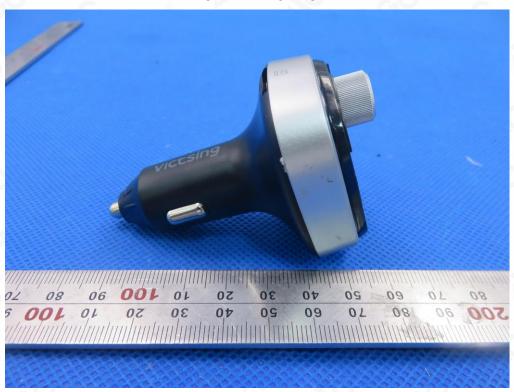
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LEFT VIEW OF EUT



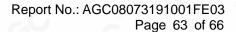
RIGHT VIEW OF EUT





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VIEW OF EUT(PORT)-1



VIEW OF EUT(PORT)-2

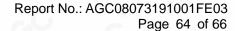




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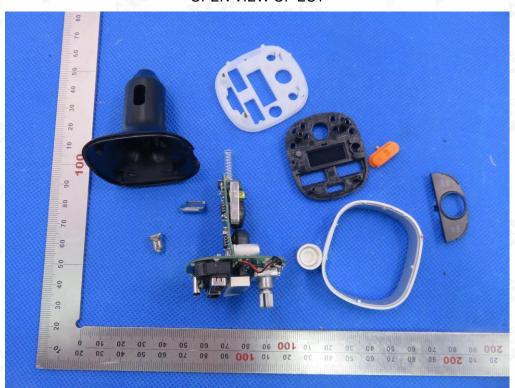
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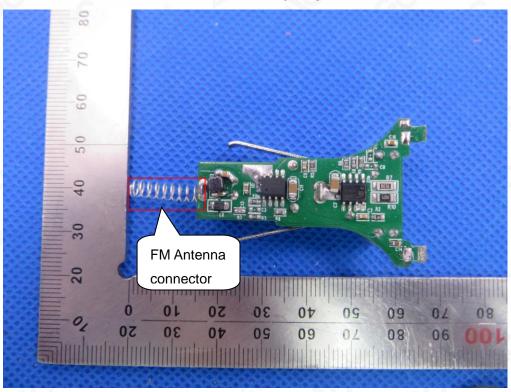




OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



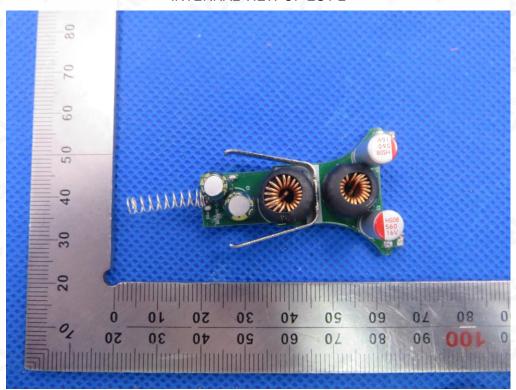


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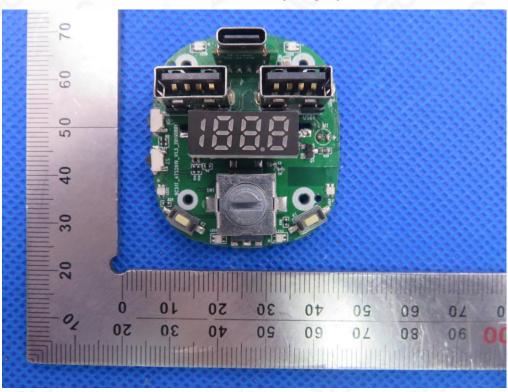
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



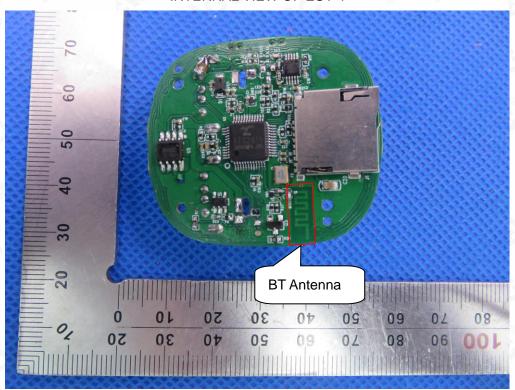


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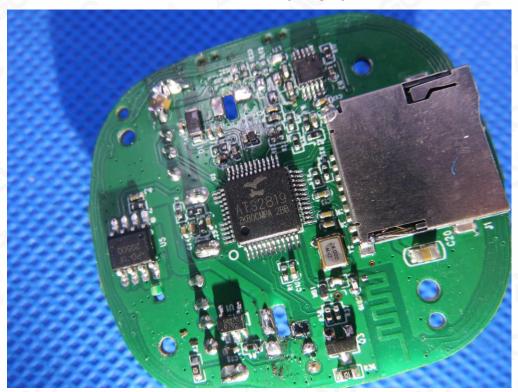
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INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



----END OF REPORT----



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