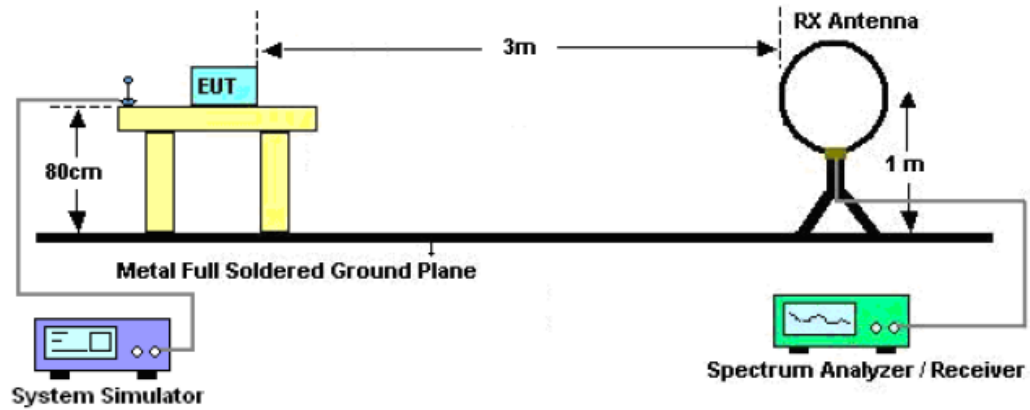
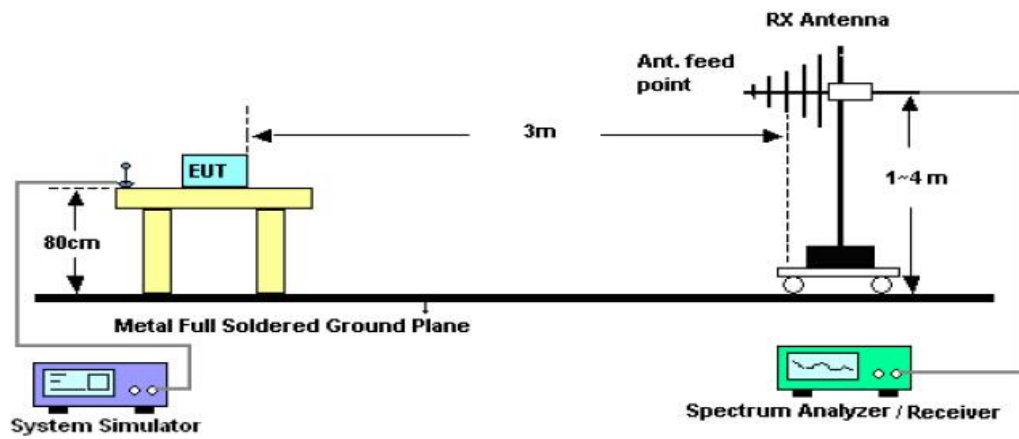


7.2. TEST SETUP

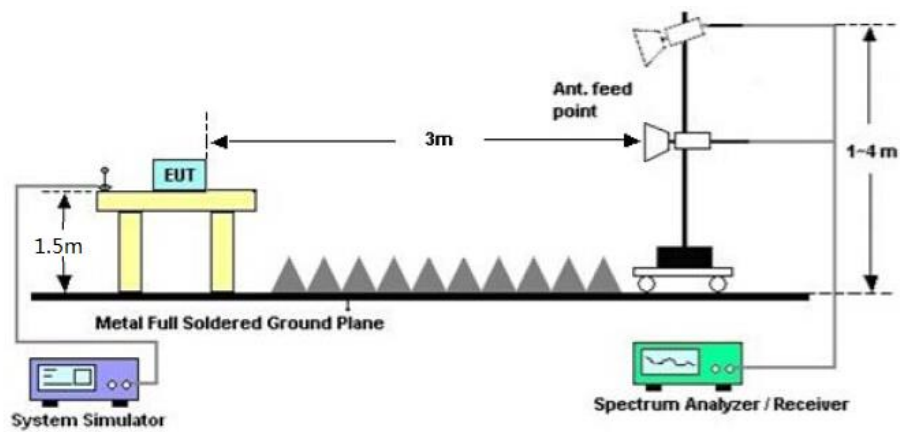
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





7.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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.

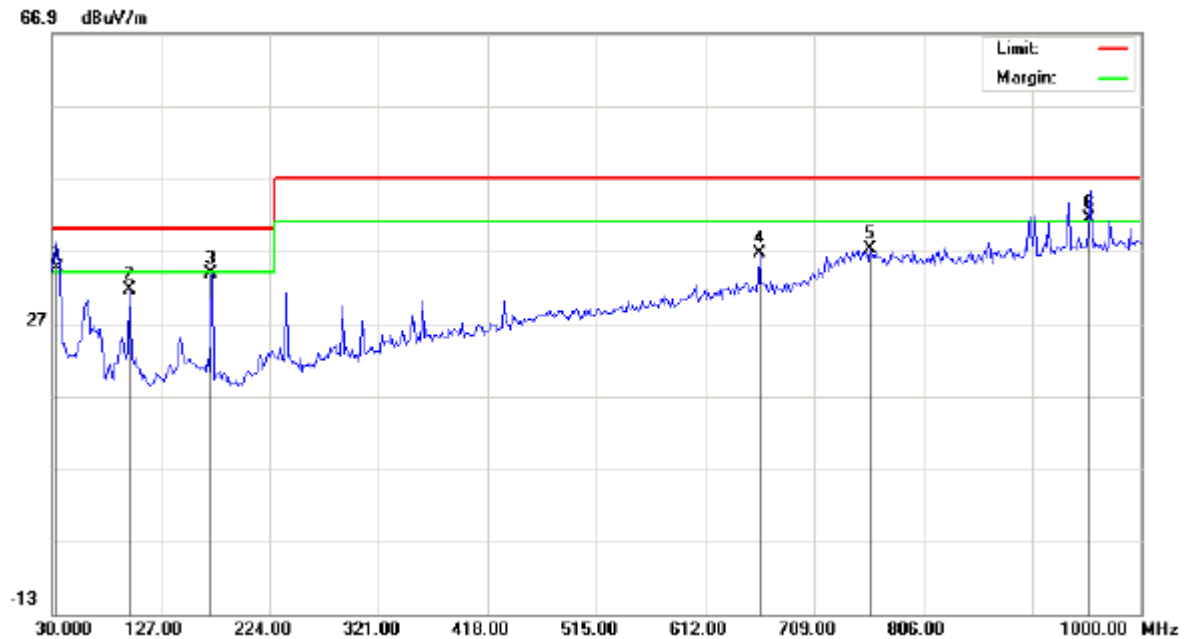
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ**

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

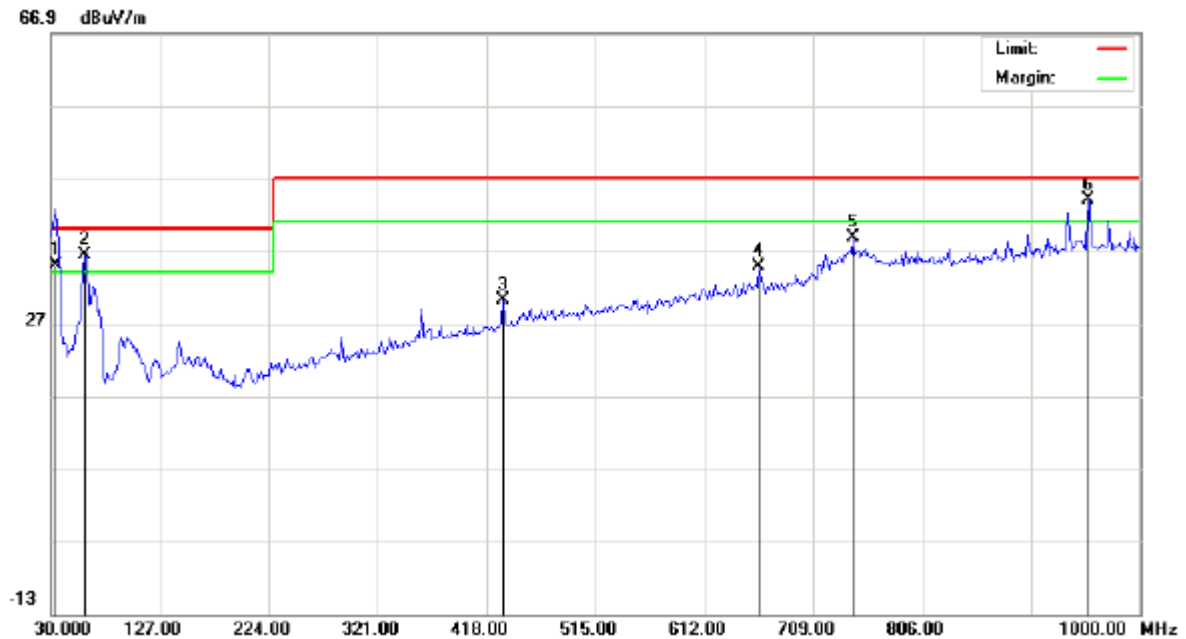


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	34.8500	15.16	19.39	34.55	40.00	-5.45	QP			
2		99.5167	11.94	19.71	31.65	40.00	-8.35	QP			
3		172.2666	14.71	19.09	33.80	40.00	-6.20	QP			
4		660.5000	6.38	30.14	36.52	47.00	-10.48	QP			
5		759.1167	5.11	32.18	37.29	47.00	-9.71	QP			
6	!	954.7332	6.13	35.22	41.35	47.00	-5.65	QP			

RESULT: PASS



EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



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	!	34.8500	15.60	19.39	34.99	40.00	-5.01	QP			
2	!	60.7167	15.99	20.36	36.35	40.00	-3.65	QP			
3		432.5500	4.54	25.59	30.13	47.00	-16.87	QP			
4		660.5000	4.62	30.14	34.76	47.00	-12.24	QP			
5		744.5666	6.89	31.83	38.72	47.00	-8.28	QP			
6	*	954.7332	8.74	35.22	43.96	47.00	-3.04	QP			

RESULT: PASS

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 test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

RADIATED EMISSION ABOVE 1GHZ

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.111	44.51	3.72	48.23	74	-25.77	peak
4824.034	40.63	3.72	44.35	54	-9.65	AVG
7236.031	43.68	8.15	51.83	74	-22.17	peak
7236.113	41.11	8.15	49.26	54	-4.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.036	44.49	3.72	48.21	74	-25.79	peak
4824.078	40.33	3.72	44.05	54	-9.95	AVG
7236.049	43.12	8.15	51.27	74	-22.73	peak
7236.065	34.39	8.15	42.54	54	-11.46	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.106	46.36	3.75	50.11	74	-23.89	peak
4874.069	43.48	3.75	47.23	54	-6.77	AVG
7311.083	43.32	8.16	51.48	74	-22.52	peak
7311.077	39.87	8.16	48.03	54	-5.97	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.100	46.86	3.75	50.61	74	-23.39	peak
4874.117	41.69	3.75	45.44	54	-8.56	AVG
7311.110	44.47	8.16	52.63	74	-21.37	peak
7311.054	40.53	8.16	48.69	54	-5.31	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.083	46.56	3.81	50.37	74	-23.63	peak
4924.087	40.35	3.81	44.16	54	-9.84	AVG
7386.044	46.14	8.19	54.33	74	-19.67	peak
7386.118	41.69	8.19	49.88	54	-4.12	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.031	43.76	3.81	47.57	74	-26.43	peak
4924.103	41.63	3.81	45.44	54	-8.56	AVG
7386.064	44.58	8.19	52.77	74	-21.23	peak
7386.079	38.82	8.19	47.01	54	-6.99	AVG
Remark:						
Factor = Antenna 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 pre-tested. The 802.11b mode is the worst case and recorded in the report.



8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

8.2. TEST SET-UP

same as 7.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. 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 $A=F$.



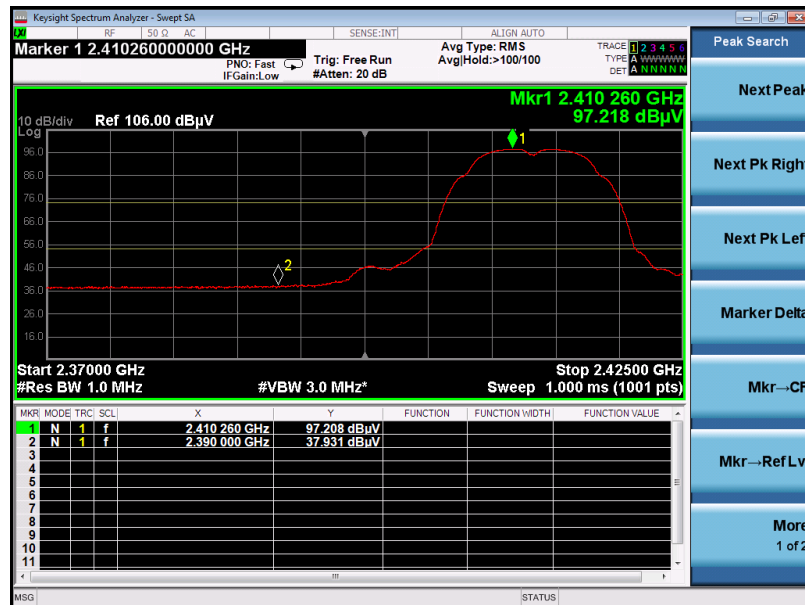
8.3. TEST RESULT

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV



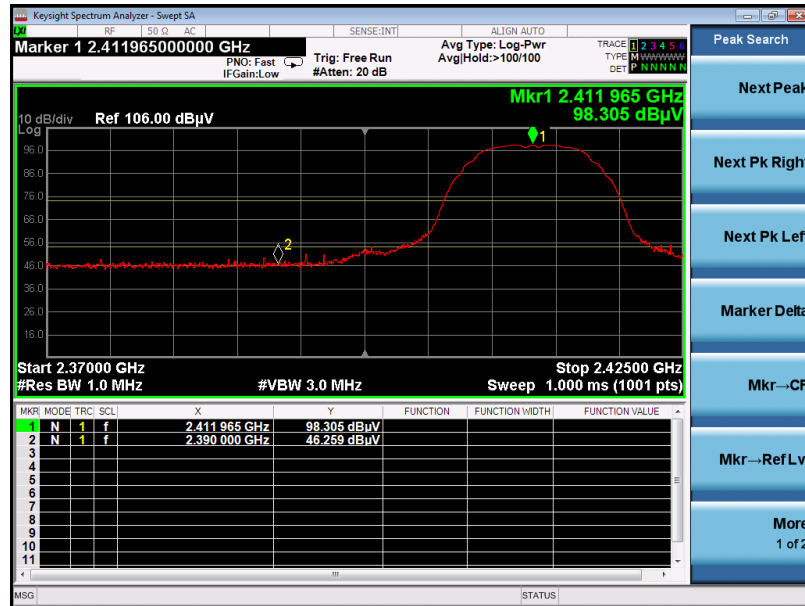
RESULT: PASS

EUT	MDVR	Model Name	SD-300
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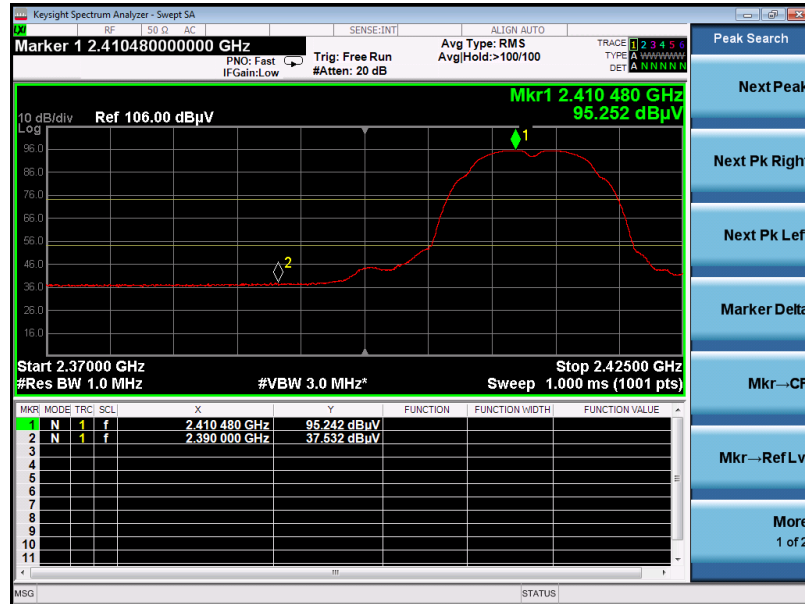


Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PK



AV



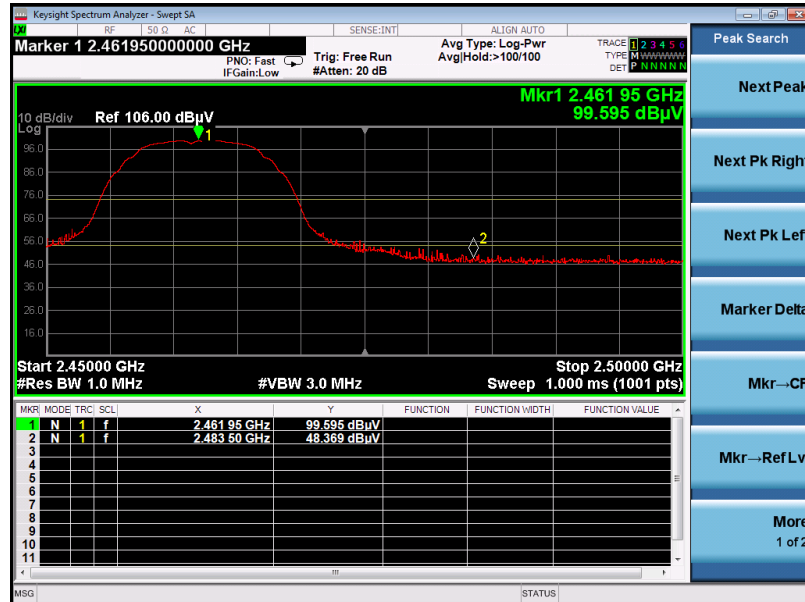
RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%



Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK



AV



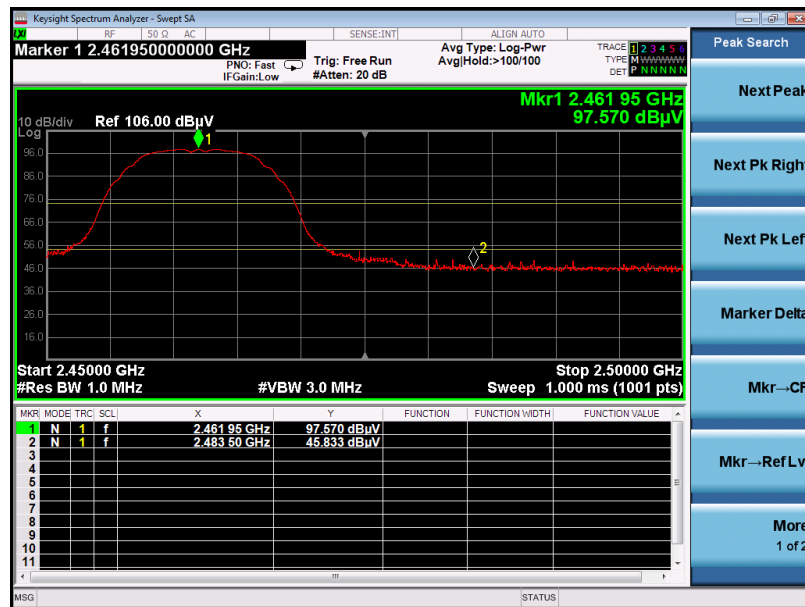
RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage



Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical
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PK



AV



RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal



PK



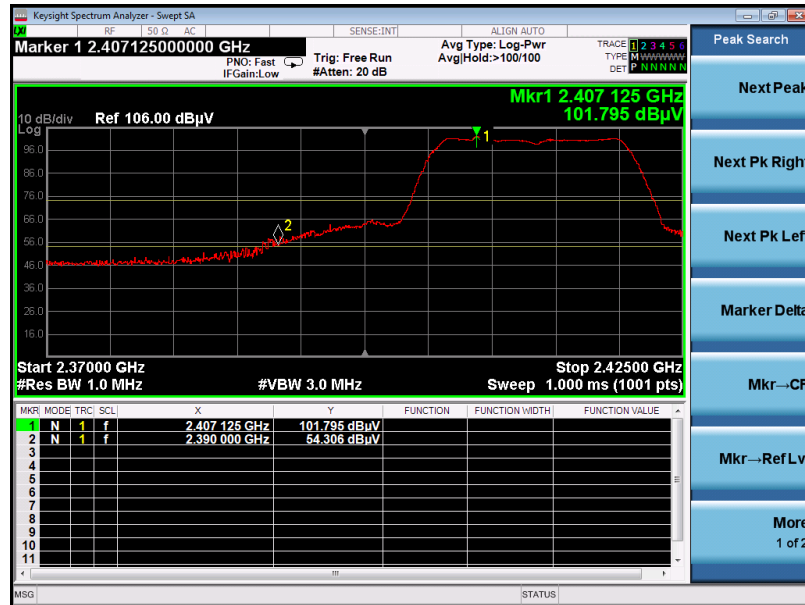
AV



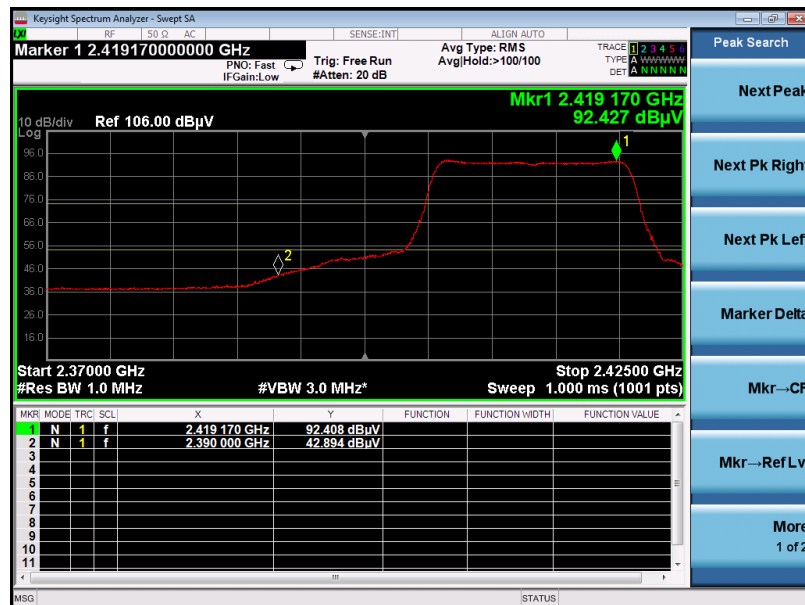
RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



AV



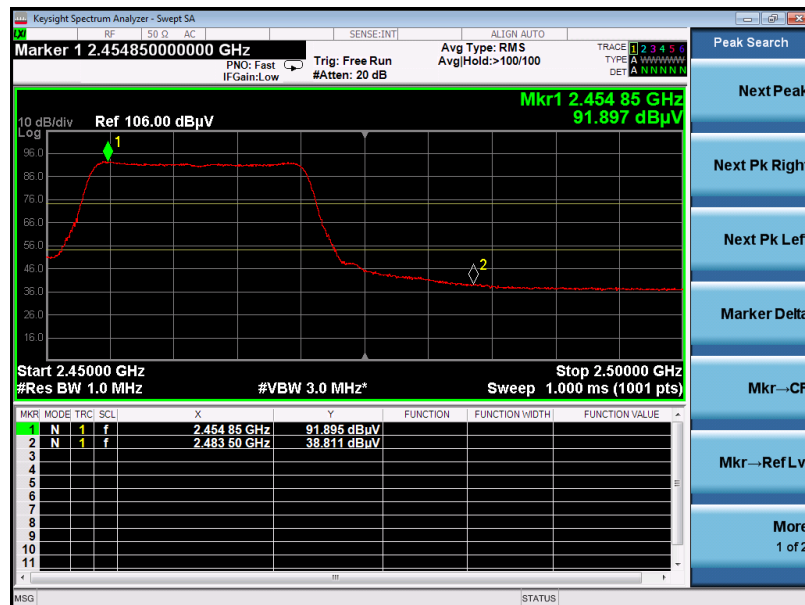
RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PK



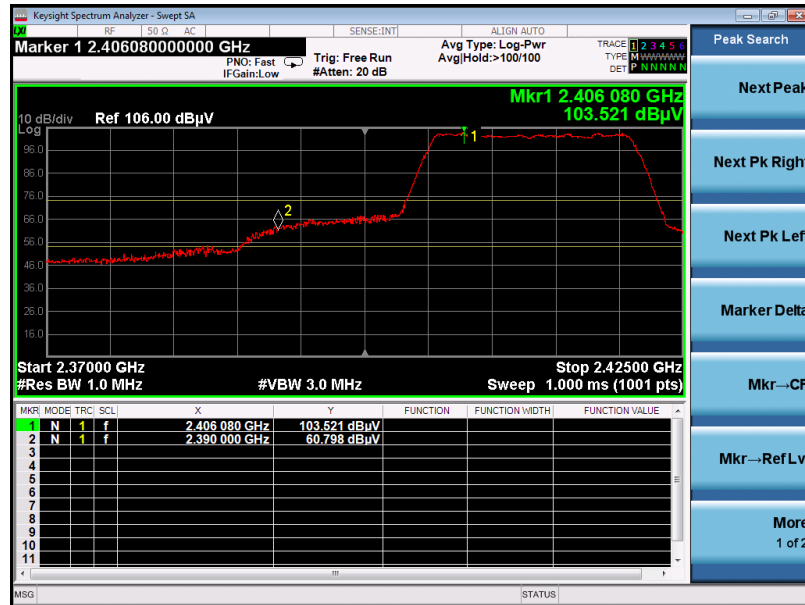
AV



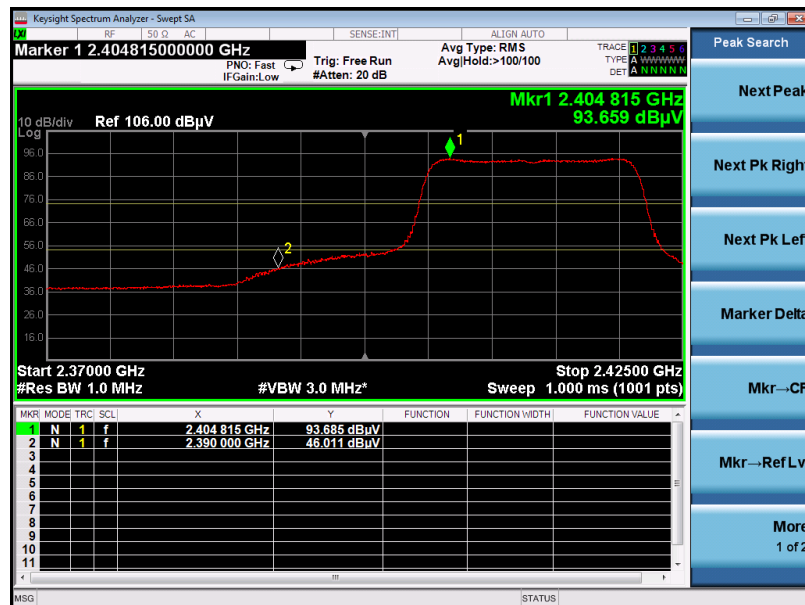
RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



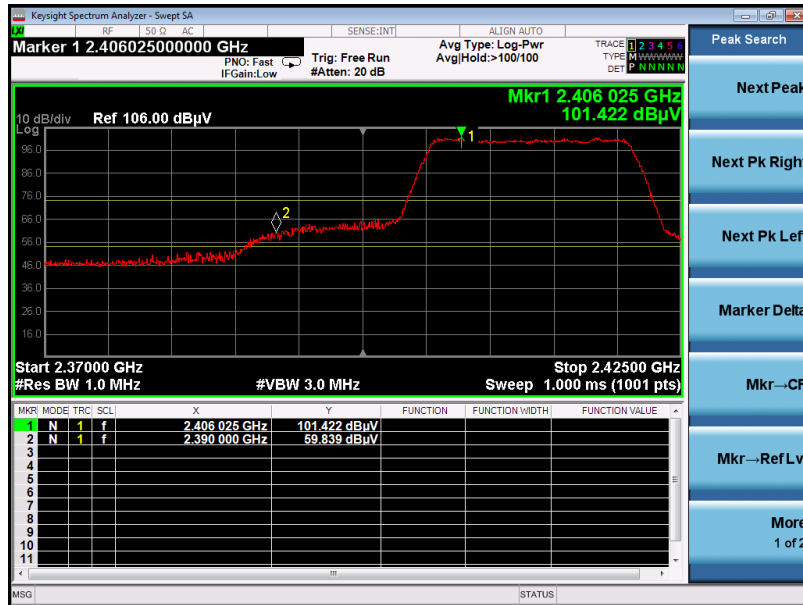
AV



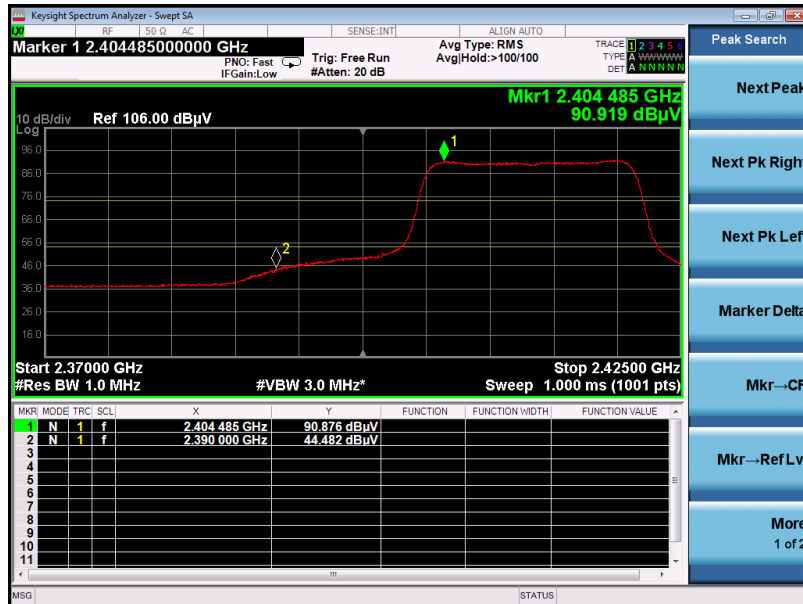
RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS

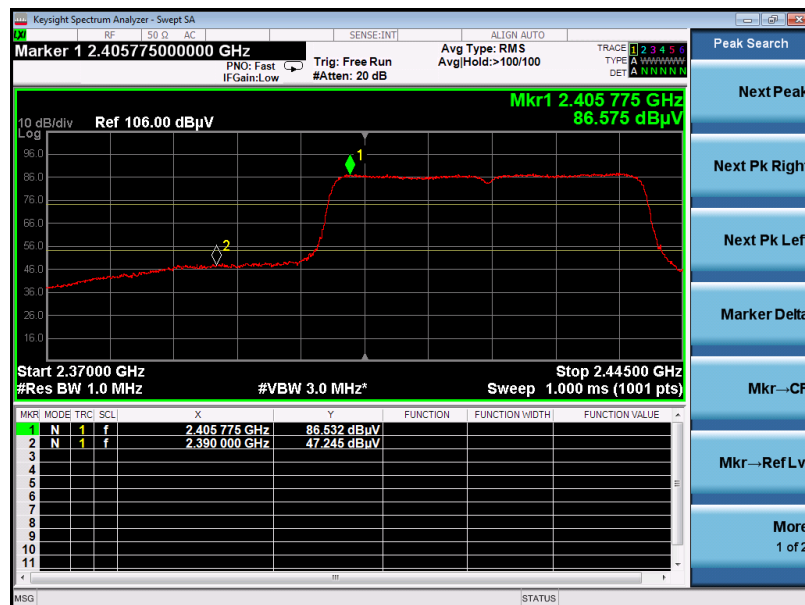


EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2422MHZ	Antenna	Horizontal

PK



AV

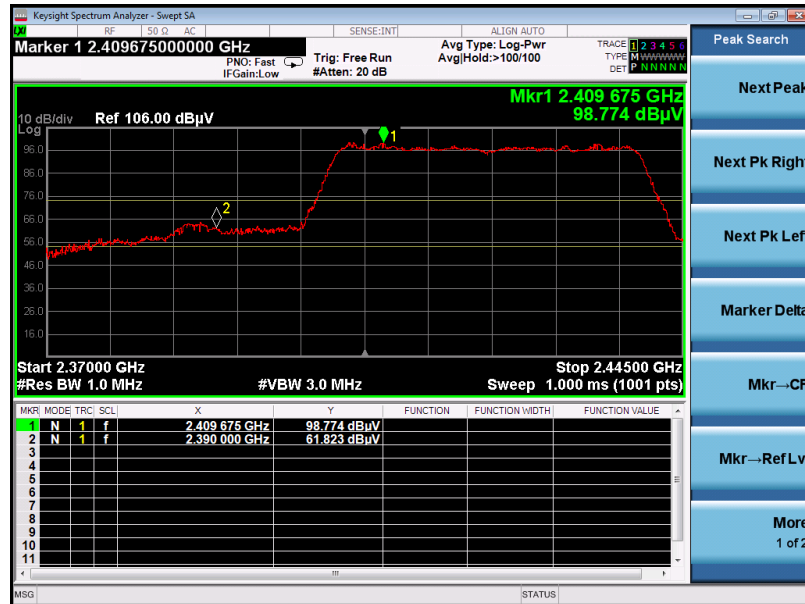


RESULT: PASS

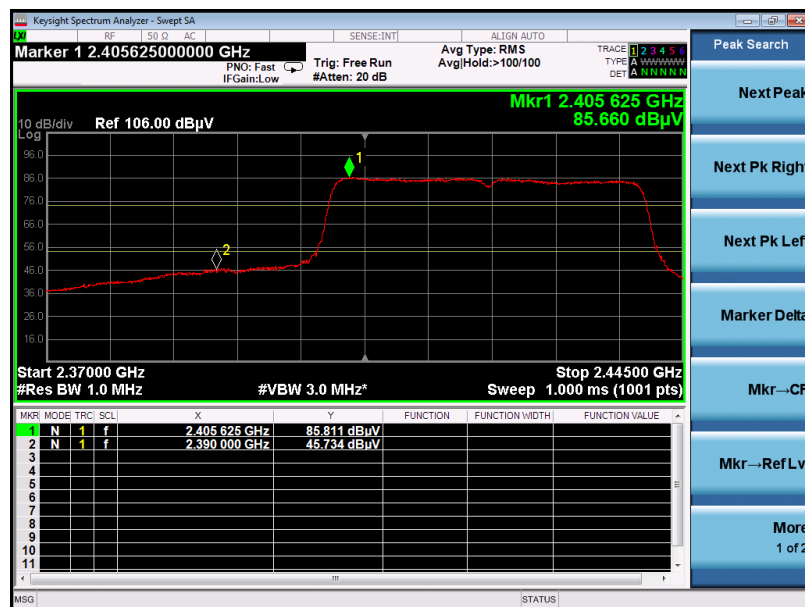


EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

PK



AV

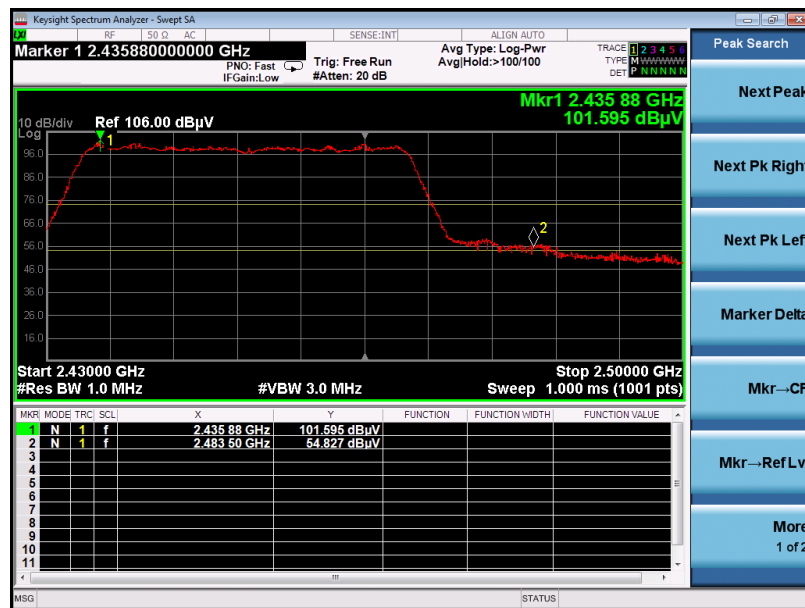


RESULT: PASS

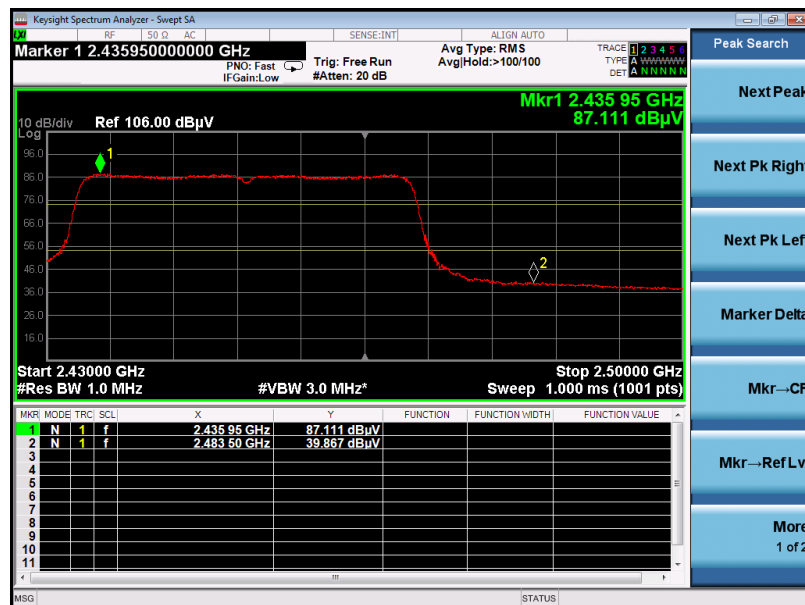


EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS

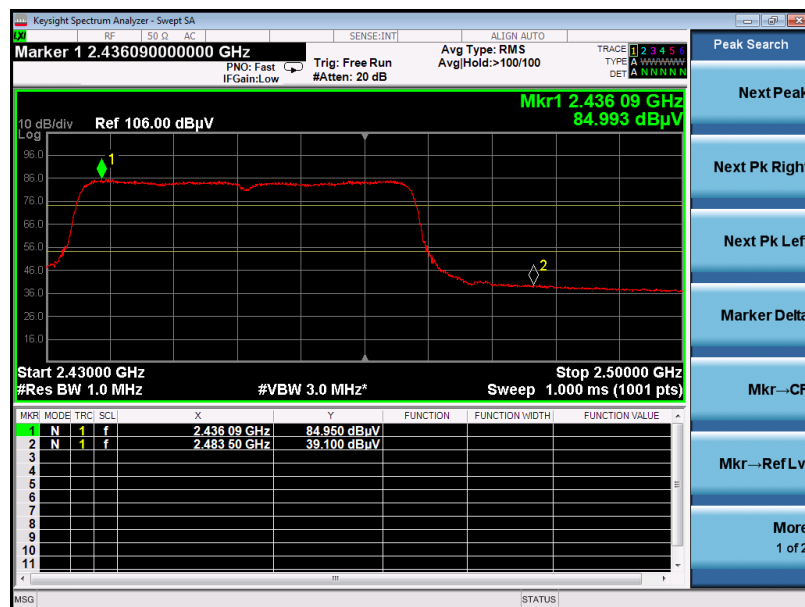


EUT	MDVR	Model Name	SD-300
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PK



AV



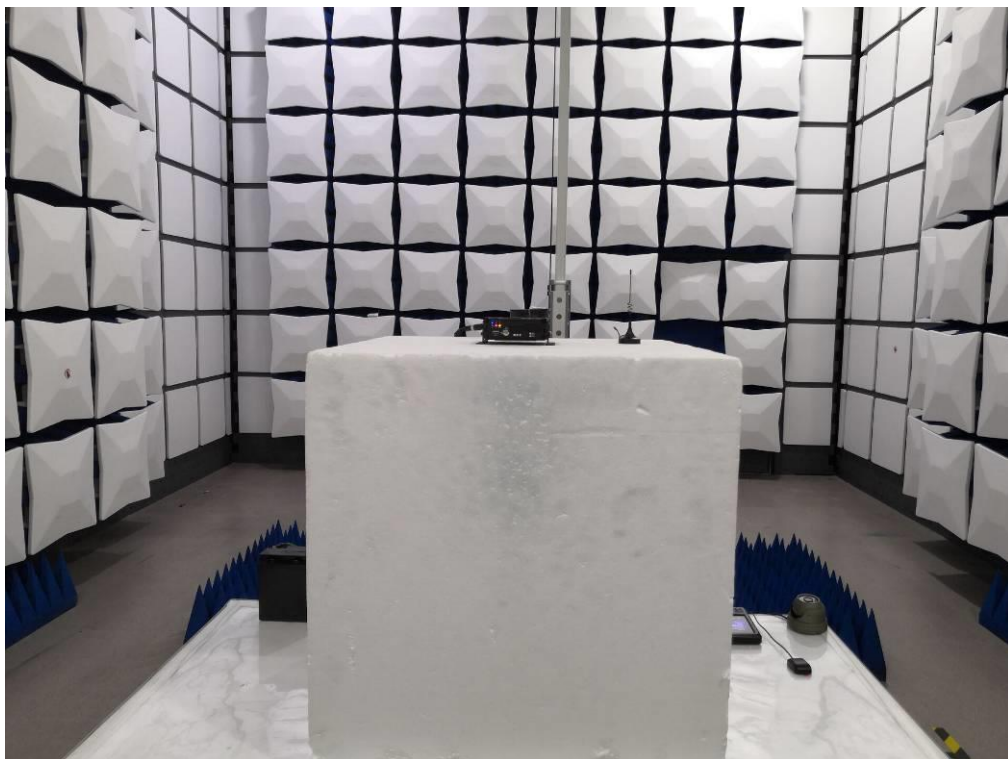
RESULT: PASS



APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

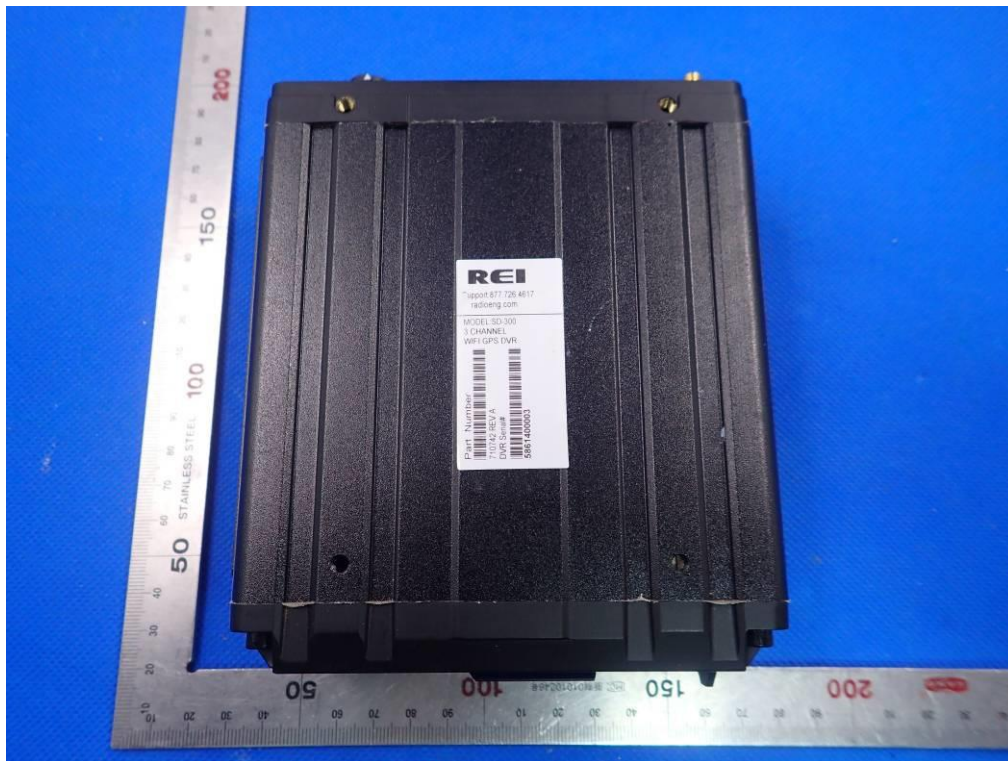




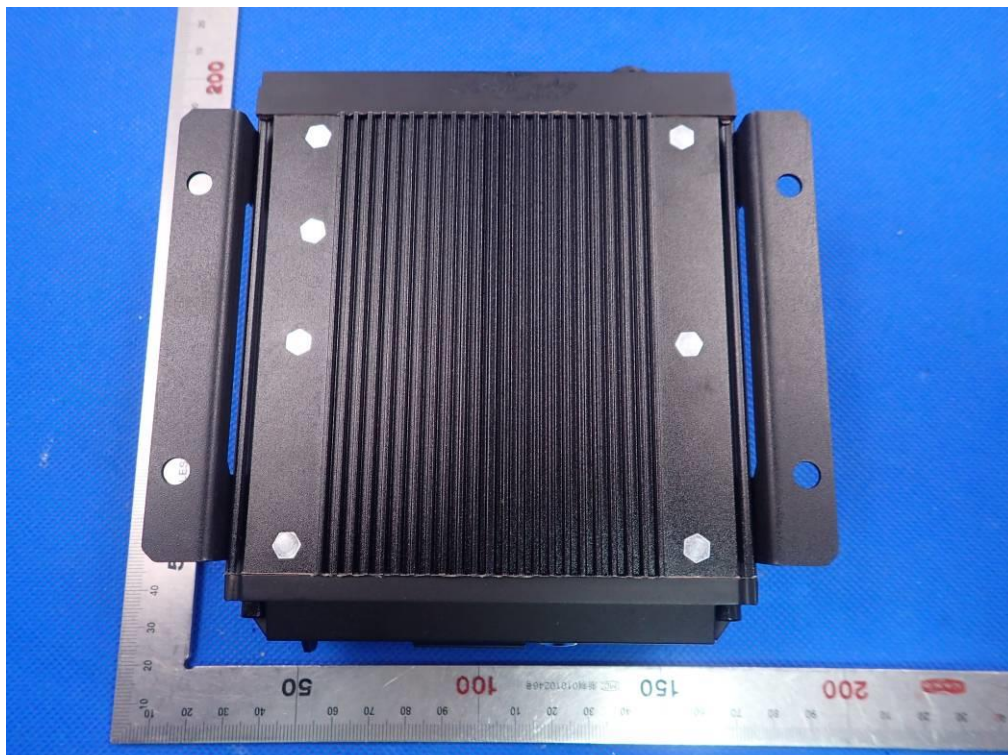
APPENDIX B: PHOTOGRAPHS OF EUT
ALL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT





FRONT VIEW OF EUT



BACK VIEW OF EUT





LEFT VIEW OF EUT

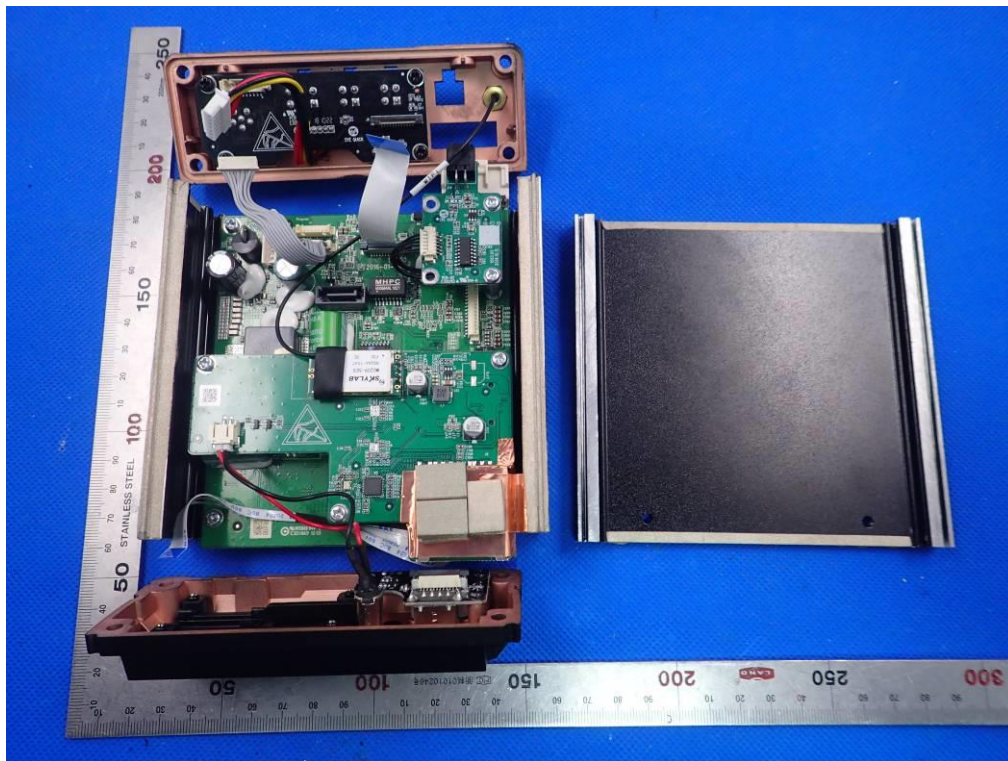


RIGHT VIEW OF EUT

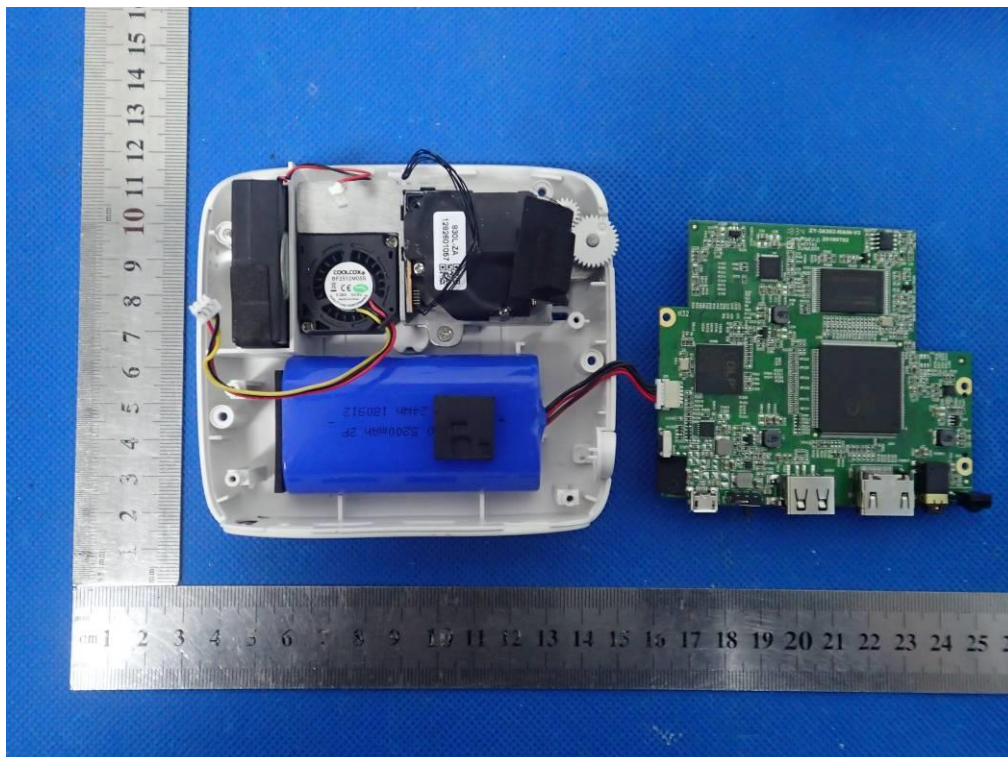




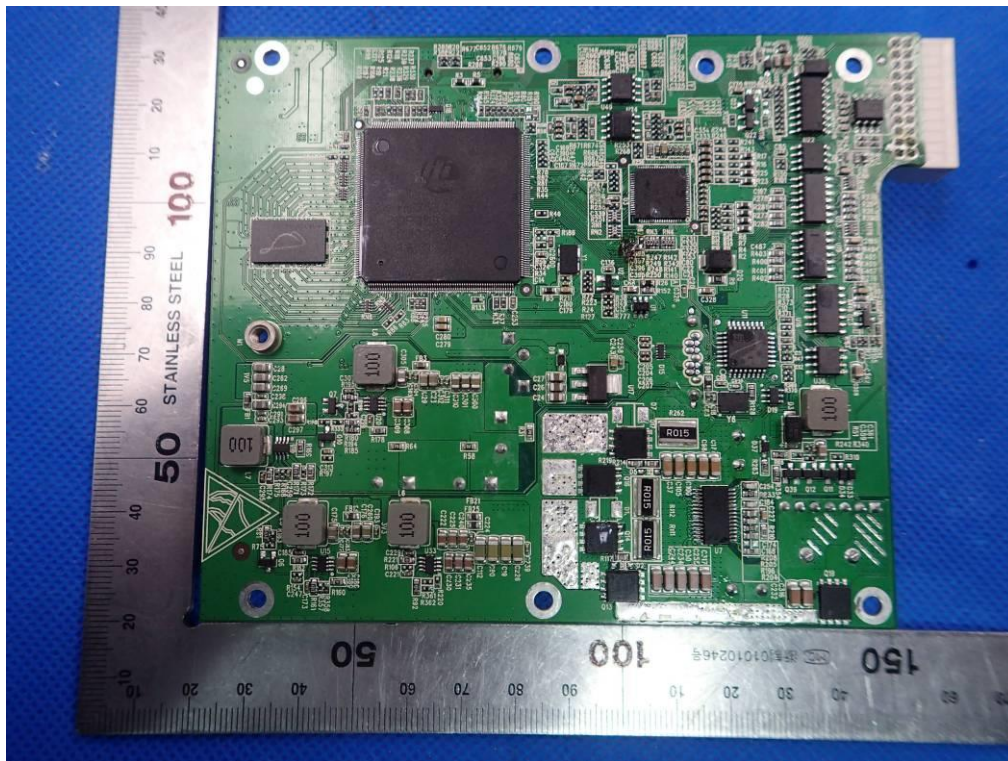
OPEN VIEW OF EUT-1



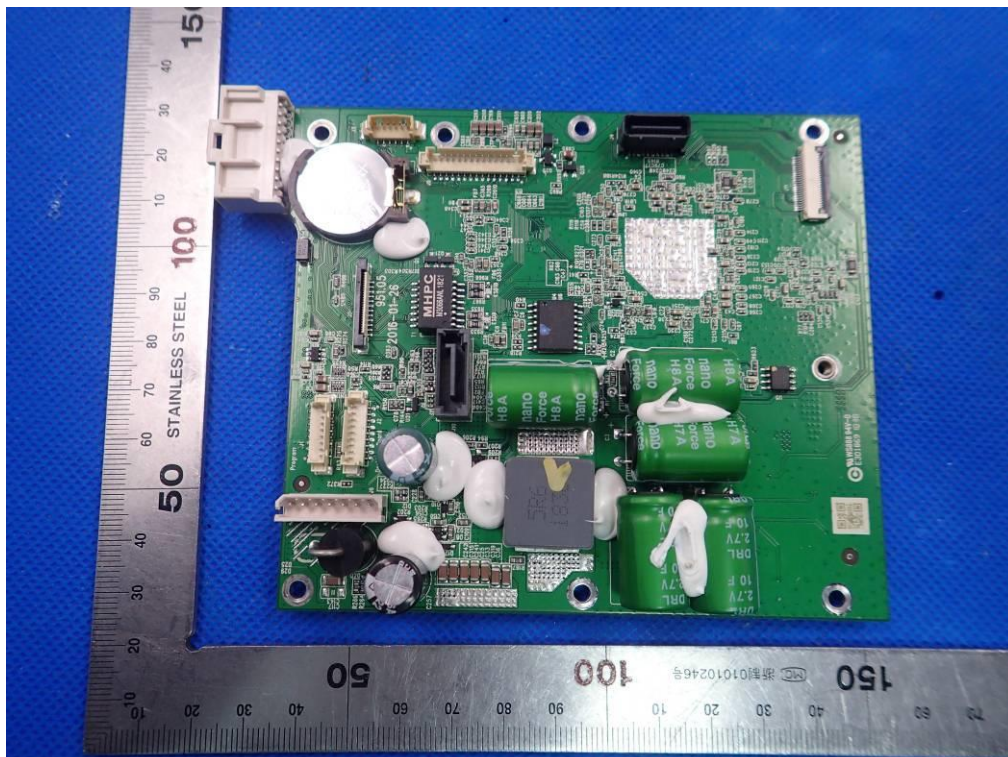
OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1

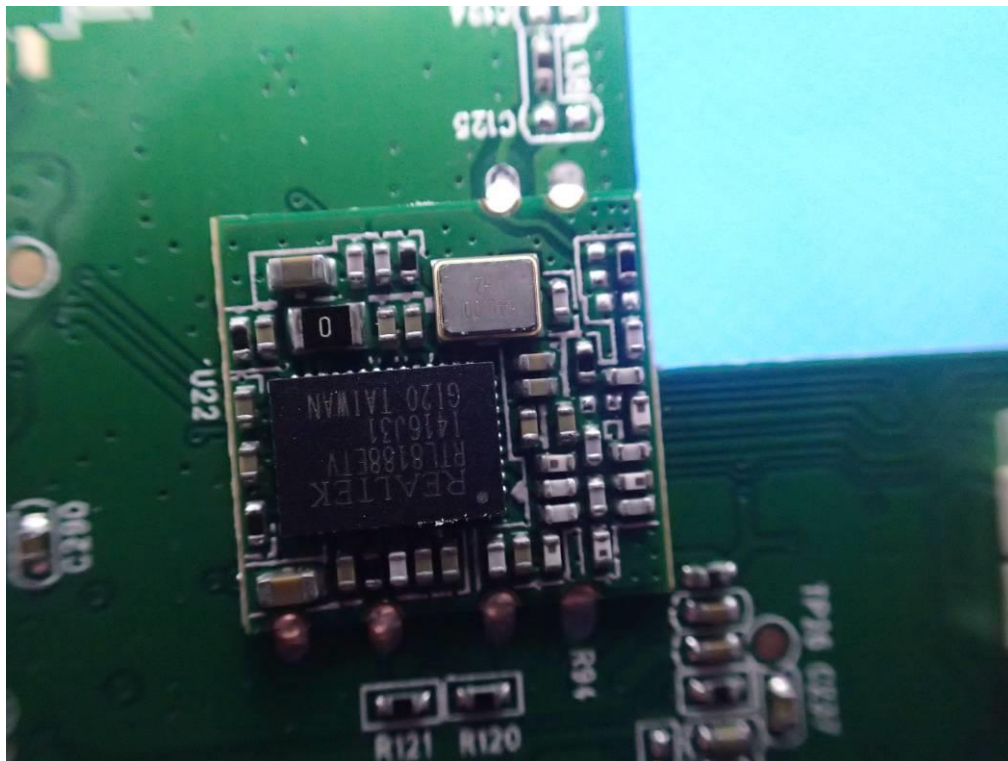


INTERNAL VIEW OF EUT-2

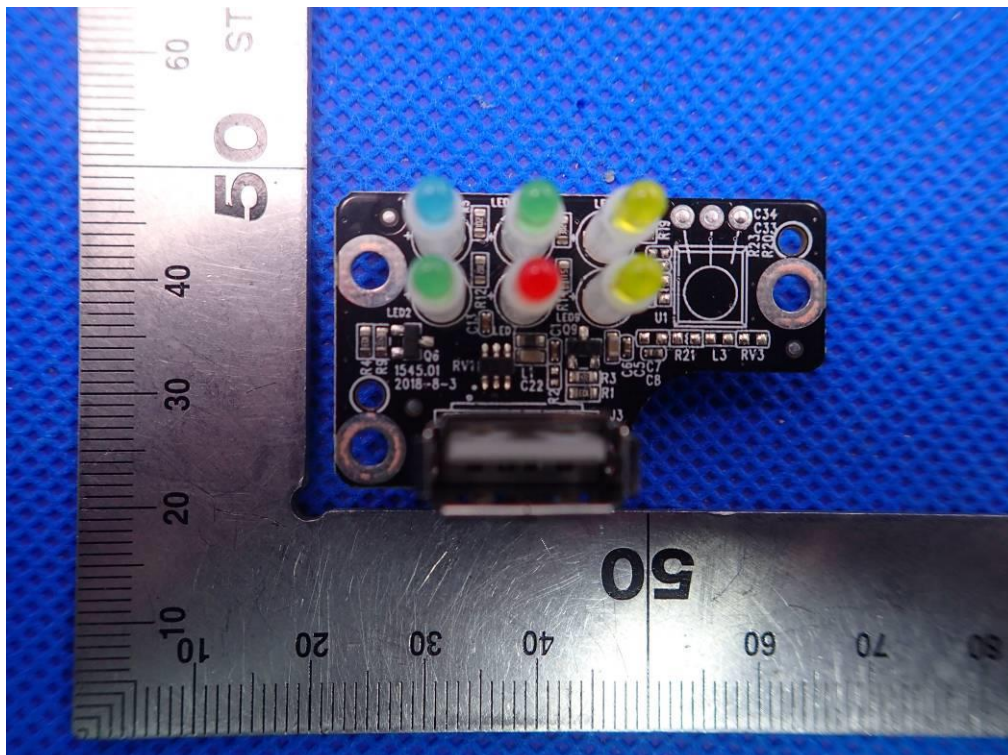




INTERNAL VIEW OF EUT-3

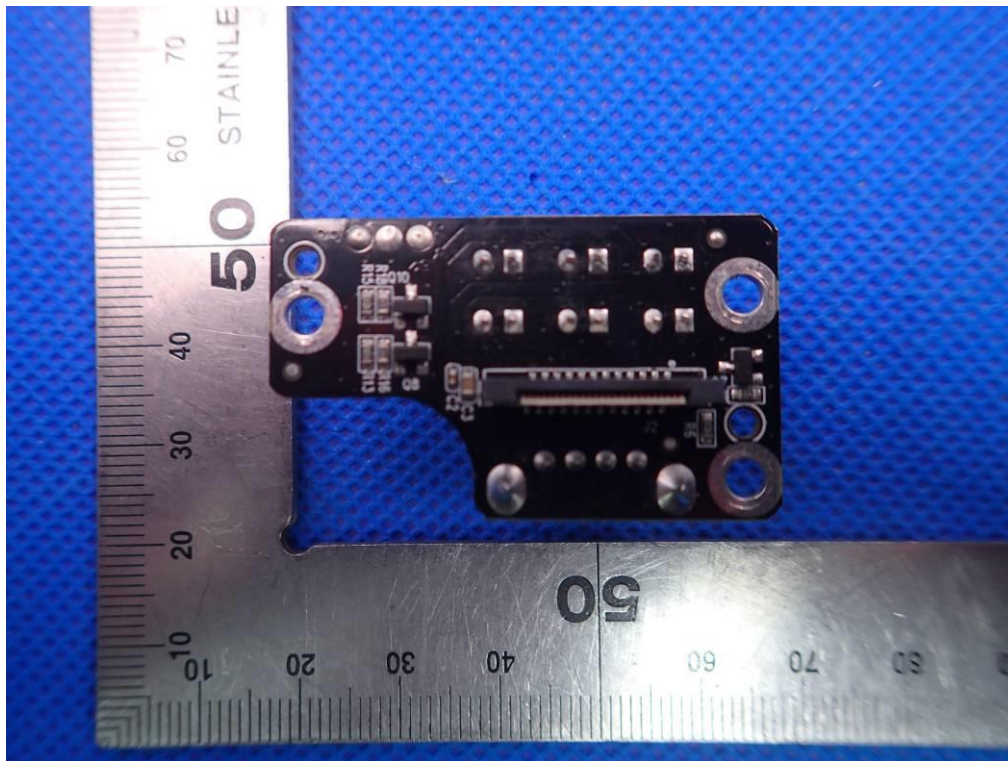


INTERNAL VIEW OF EUT-4

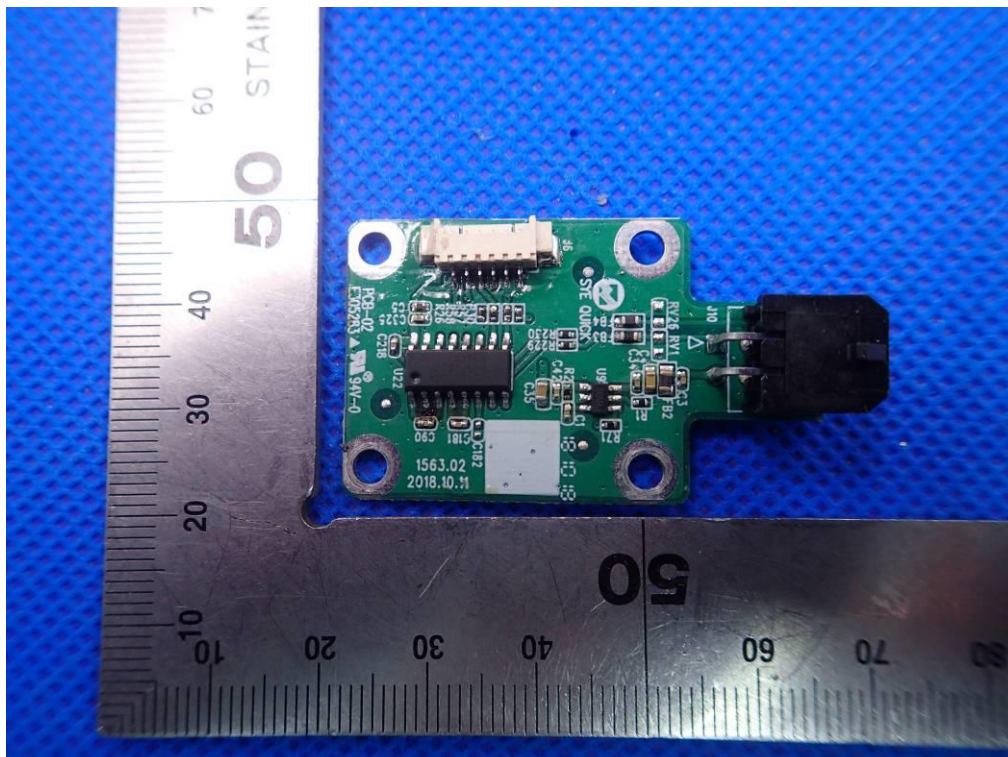




INTERNAL VIEW OF EUT-5

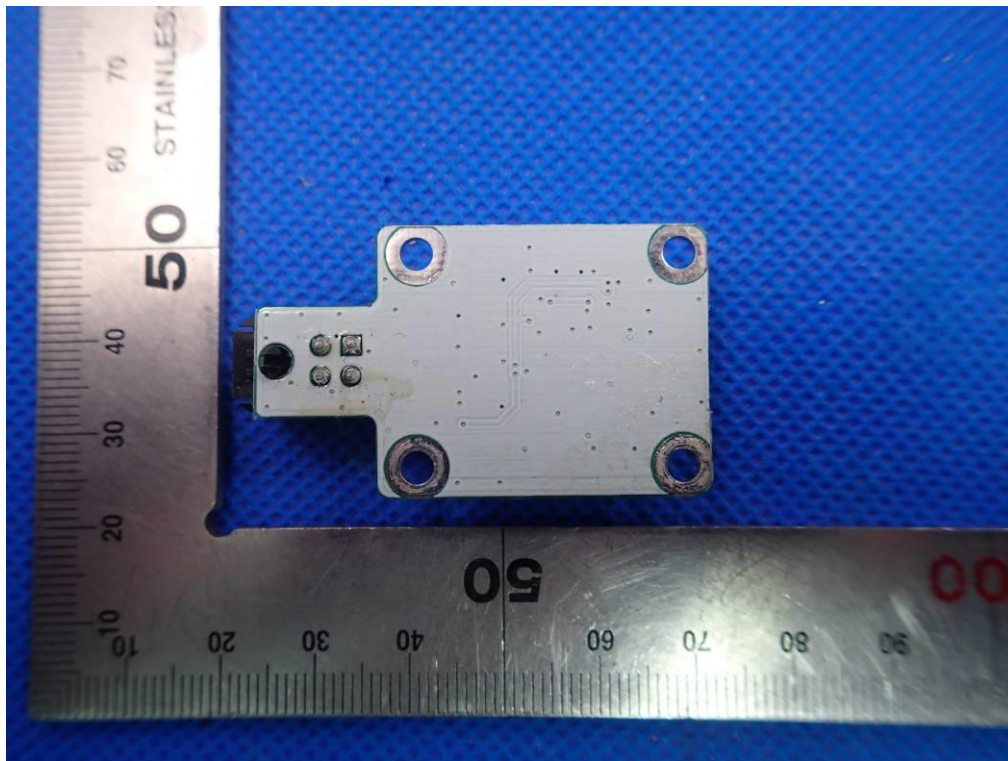


INTERNAL VIEW OF EUT-6

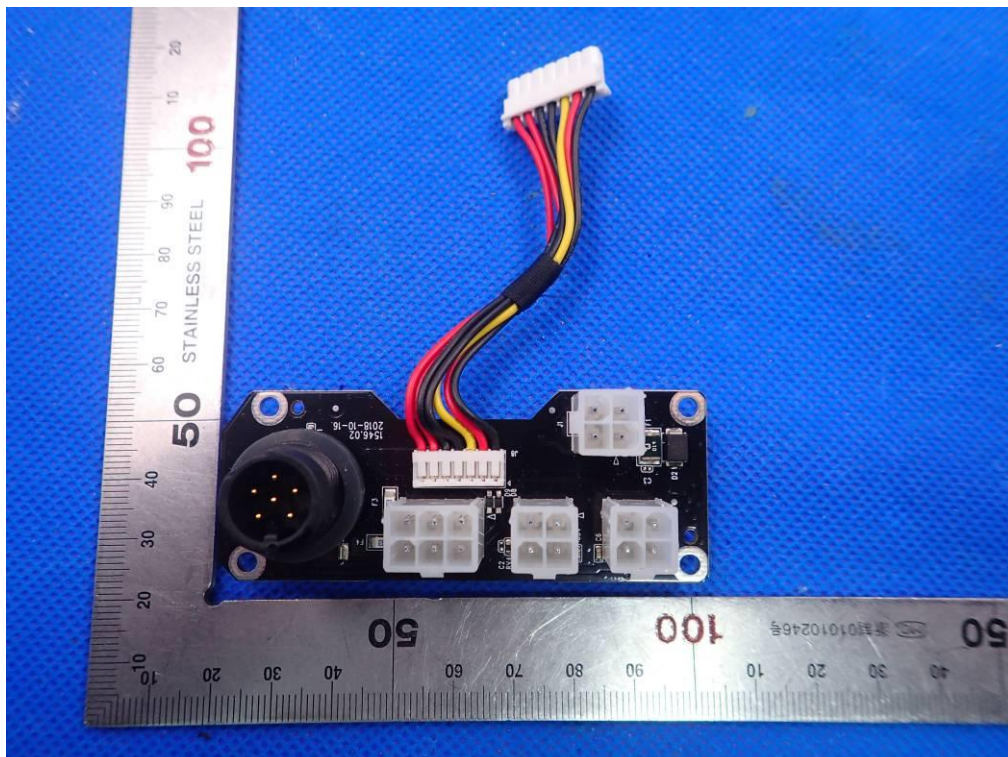




INTERNAL VIEW OF EUT-7

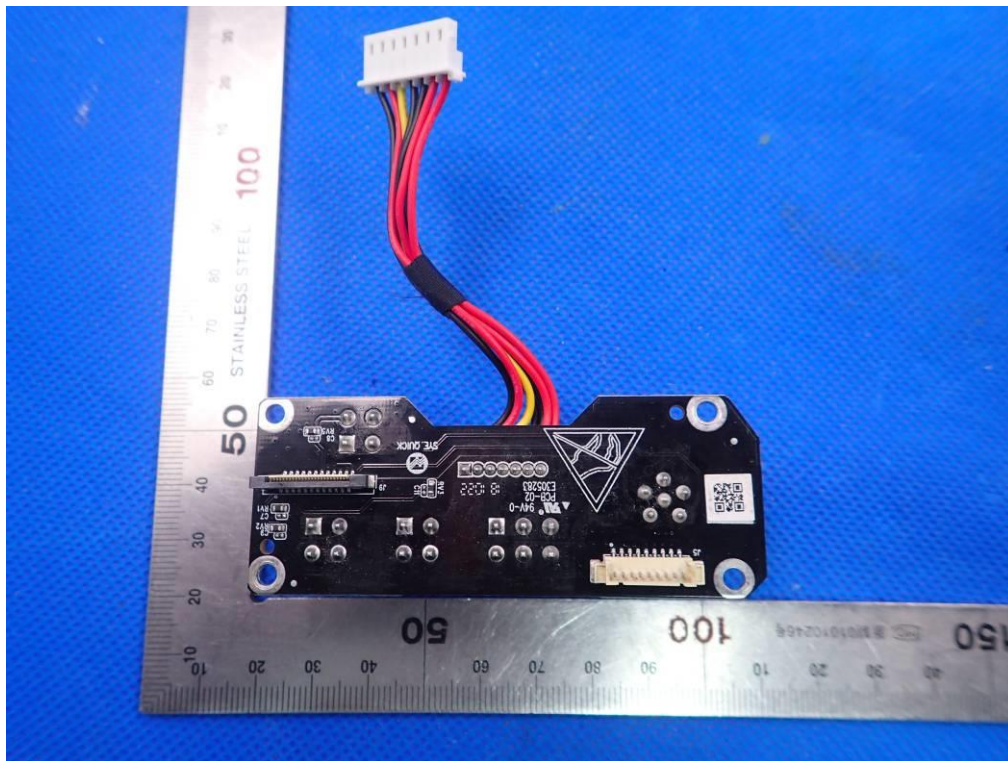


INTERNAL VIEW OF EUT-8

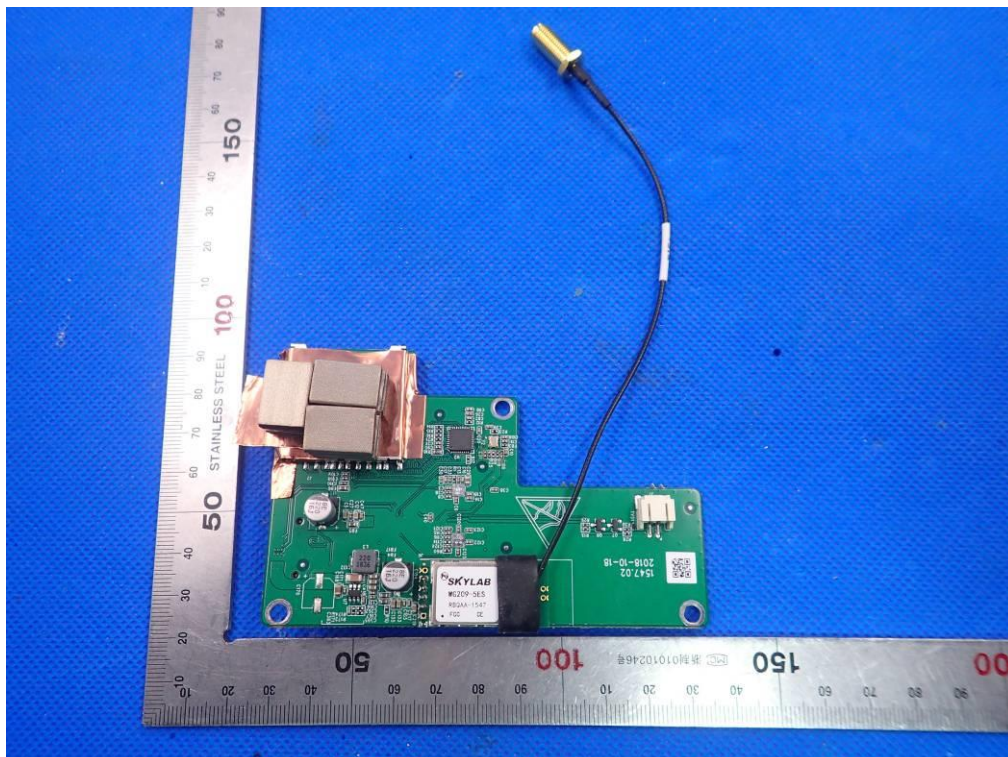




INTERNAL VIEW OF EUT-9

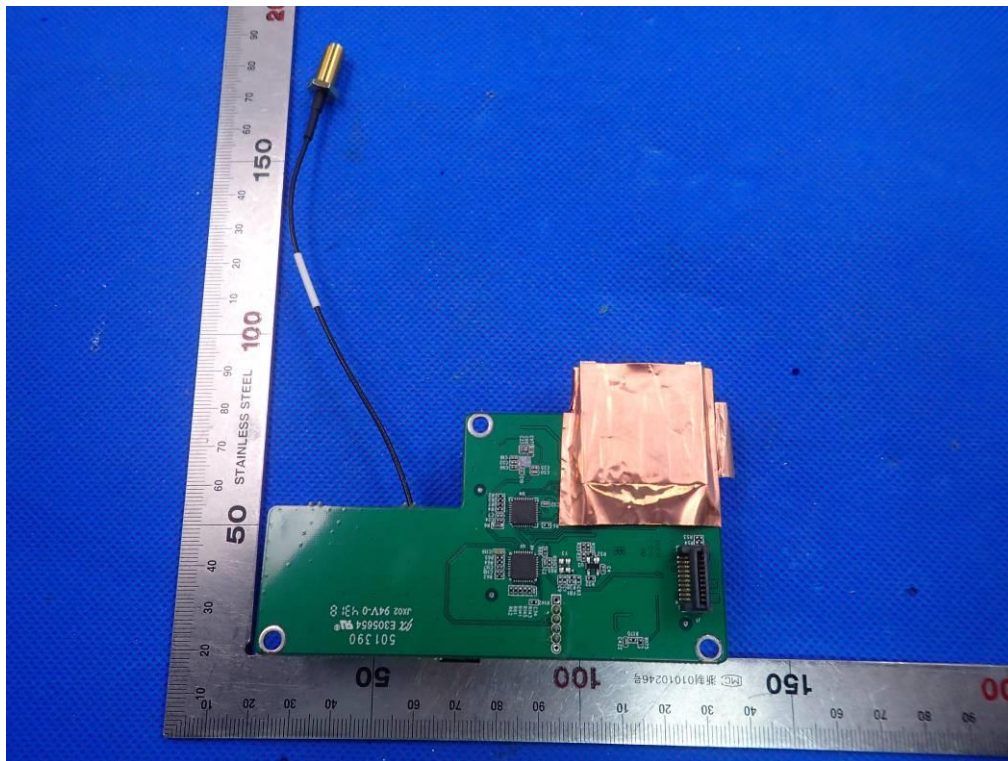


INTERNAL VIEW OF EUT-10

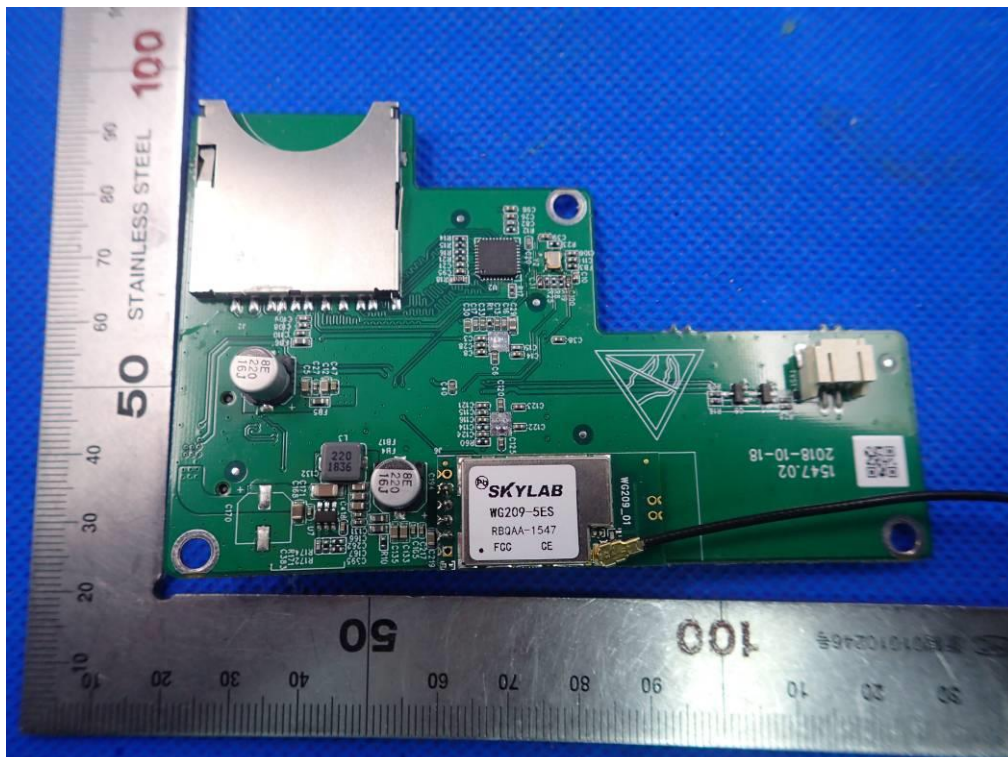




INTERNAL VIEW OF EUT-11

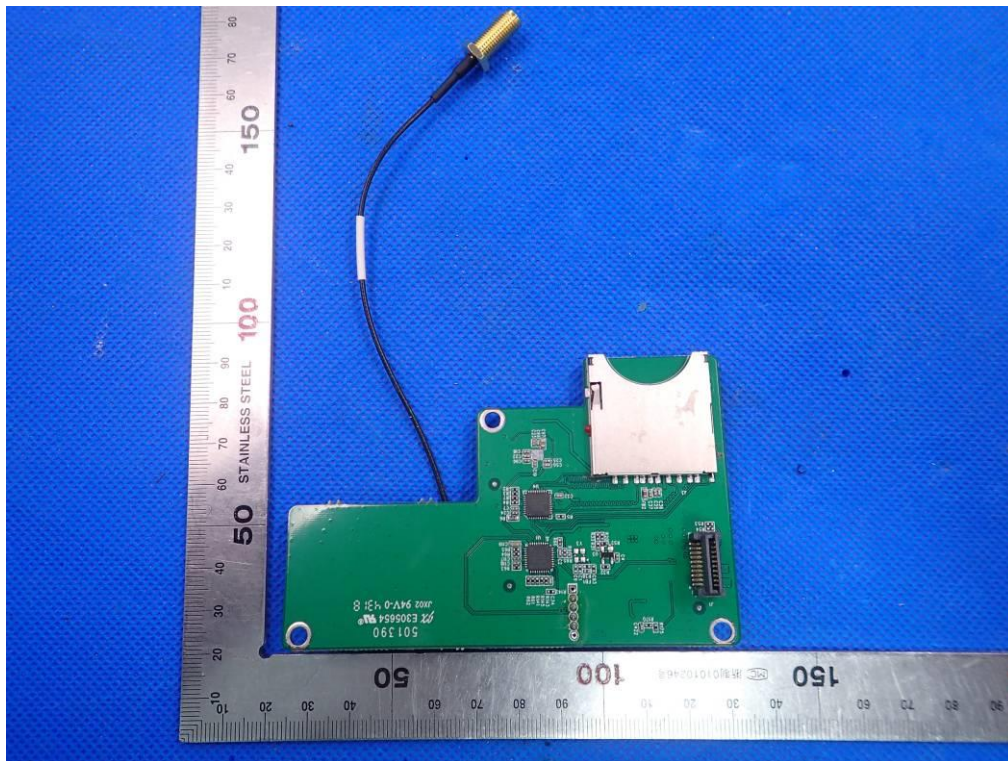


INTERNAL VIEW OF EUT-12

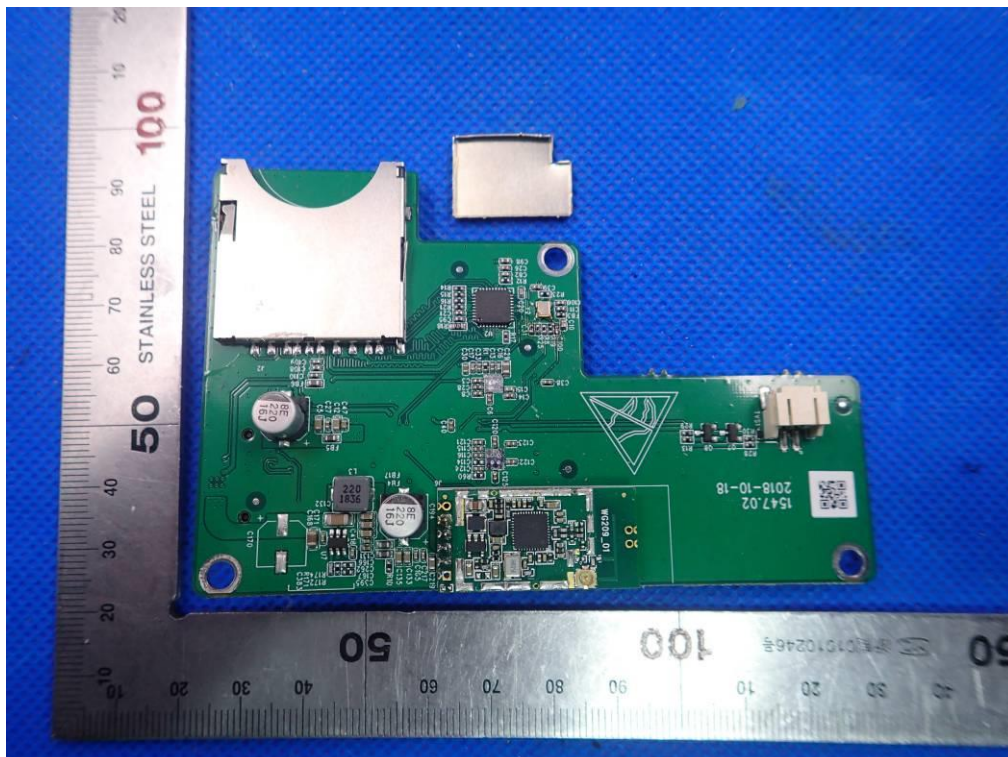




INTERNAL VIEW OF EUT-13

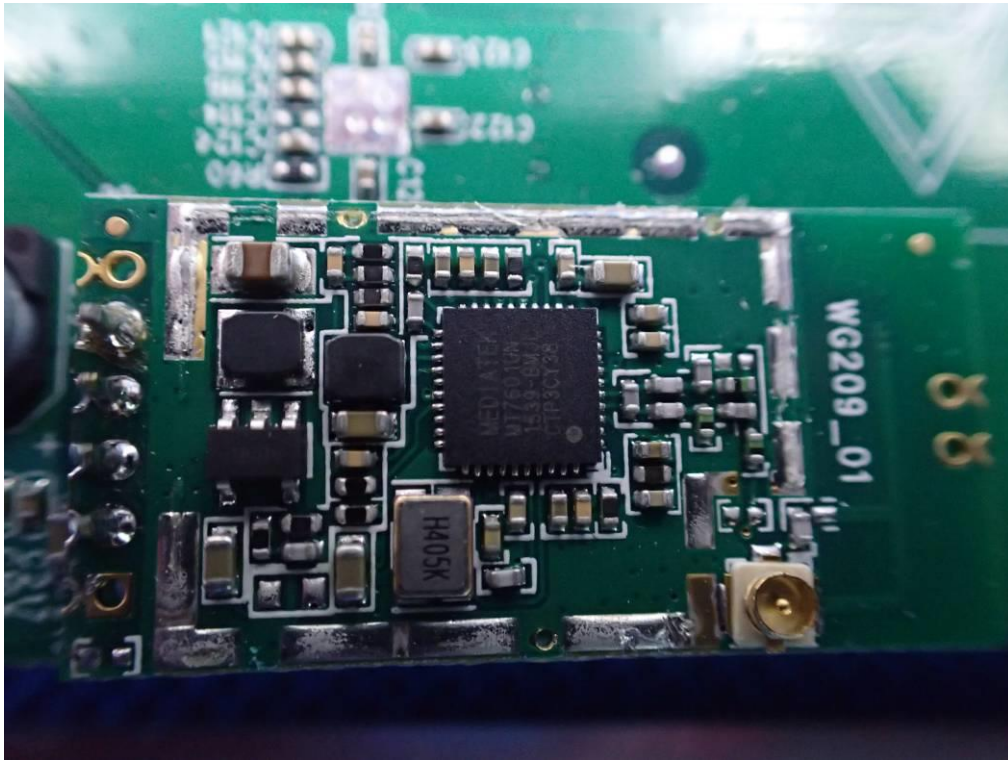


INTERNAL VIEW OF EUT-14





INTERNAL VIEW OF EUT-15



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