



China

FCC/ISED Test Report

Report Number : 7088821063147-00 Date of Issue: June 23, 2021
Model / Serial No. : InCoax D2501 US
FCC ID : 2ATQM1000-0517
Product Type : DPU
Applicant : Incoax Networks AB
Manufacturer : Incoax Networks AB
License holder : Incoax Networks AB
Address : Utmarksvagen4, 80291 Gavle, Sweden

Test Result : Positive Negative

Total pages : 44

Date of Test : May 7, 2020 ~ June 18, 2021

Reviewed by:

Prepared by:

Tested by:

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EMC Project Engineer

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EMC Test Engineer

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Rev.20.00

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1. Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	06/23/2021

2. Test Facility

Test Site ■ TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
No.16, Lane 1951, Du Hui Road, Shanghai 201108, P.R. China
(Test Firm Registration Number: 820234)
Telephone: +86 21 60379100 Fax: +86 21 60379100

Test Firm 820234
Registration
Number:

Ambient Condition in laboratory:

Items	Test	Required(IEC68-1)	Actual
Temperature(°C)	ANSI.C 63.4 CE	15-35	20.3
Humidity (%)		25-75	46.2
Atmospheric Pressure(mbar)		860-1060	1031
Temperature(°C)	ANSI.C 63.4 RE	15-35	20.4~21.3
Humidity (%)		25-75	51.2~52.3
Atmospheric Pressure(mbar)		860-1060	1019~1031



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3. EUT Information

3.1 EUT Description

Product Type	:	DPU
Model / Serial No.	:	InCoax D2501 US
EUT Voltage	:	100-120V~, 50/60Hz, 0.5A max 200-240V~, 50/60Hz, 0.3A max DC 13-25V

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.

3.2 EUT Configuration

DPU	:	InCoax D2501 US
-----	---	-----------------

3.3 EUT Operating Mode

The equipment under test was operated under the following conditions during emissions testing:

- Standby
- Test Program (H - Pattern)
- Test Program (Color Bar)
- Test Program (Customer Specified)
- Normal Operating Mode
- AC Power on (DPU Web mode or Coaxial Network mode for residential networks, hotel networks, satellite networks, TV networks, TV / DOCSIS 3.0 networks, TV/DOCSIS 3.1 networks),
- DC Power on (DPU Web mode or Coaxial Network mode for residential networks, hotel networks, satellite networks, TV networks, TV / DOCSIS 3.0 networks, TV/DOCSIS 3.1 networks)



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According to the test data of this report, the EUT can fulfill the requirements of ICES-003, Issue 7 and no additional tests are performed.

Pre-tests were performed under AC Power on (DPU Web mode or Coaxial Network mode for residential networks, hotel networks, satellite networks, TV networks, TV / DOCSIS 3.0 networks, TV/DOCSIS 3.1 networks), DC Power on (DPU Web mode or Coaxial Network mode for residential networks, hotel networks, satellite networks, TV networks, TV / DOCSIS 3.0 networks, TV/DOCSIS 3.1 networks), 100-120V~, 50/60Hz, 200-240V~, 50/60Hz, DC13-25V, only the maximum emission was recorded.



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5. Conducted Emission

5.1 Test Equipment

The following test equipments are used:

USED	Equipment Name	Model	Manufacturer	Equipment ID.	Calibration Date	Calibration Due
<input checked="" type="checkbox"/>	EMI test receiver	ESR3	R&S	S1503001-YQ-EMC	2020-8-04	2021-8-03
<input checked="" type="checkbox"/>	2-Line V-network	ENV216	R&S	S1503103-YQ-EMC	2020-8-04	2021-8-03
<input type="checkbox"/>	4-Line V-network	ENV4200	R&S	S1503106-YQ-EMC	2020-8-04	2021-8-03

5.2 Test Specification

Tests are performed according to CFR47 Part 15 subpart B and ICES-003 issue 7.

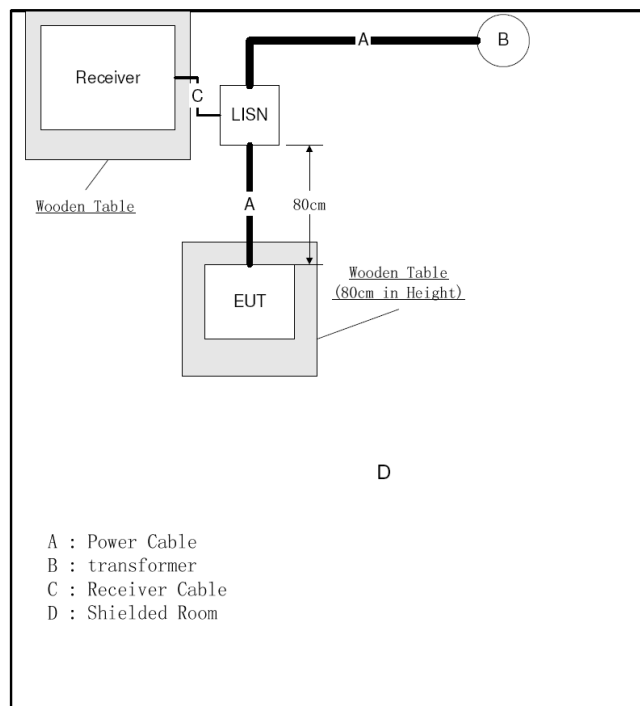
Limit as below:

CFR47 Part 15 subpart B §15.107 and ICES-003 §3.2.1 Limits (dB μ V)				
Frequency (MHz)	Class A		Class B	
	QP	AV	QP	AV
0.15-0.5	79	66	66-56	56-46
0.5-5.0	73	60	56	46
5.0-30	73	60	60	50

5.3 Test Procedure

The test is performed in shield room. EUT is placed on the table which is 80cm above ground plane and connected to a line Impedance Stabilization Network (LISN). The conducted emission is scanned over the frequency from 150KHz to 30MHz with peak detector. A final measurement is performed with quasi-peak detector and average detector. IF bandwidth is 10KHz.

5.4 Test Setup



5.5 Test Photo





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5.6 Test Result

Note 1: Emission Level = Reading level + Correction Factor

Correction Factor = LISN Factor + Cable Loss + Attenuator Factor

Margin=Limit – Emission Level



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150k-30MHz Conducted Emission Test

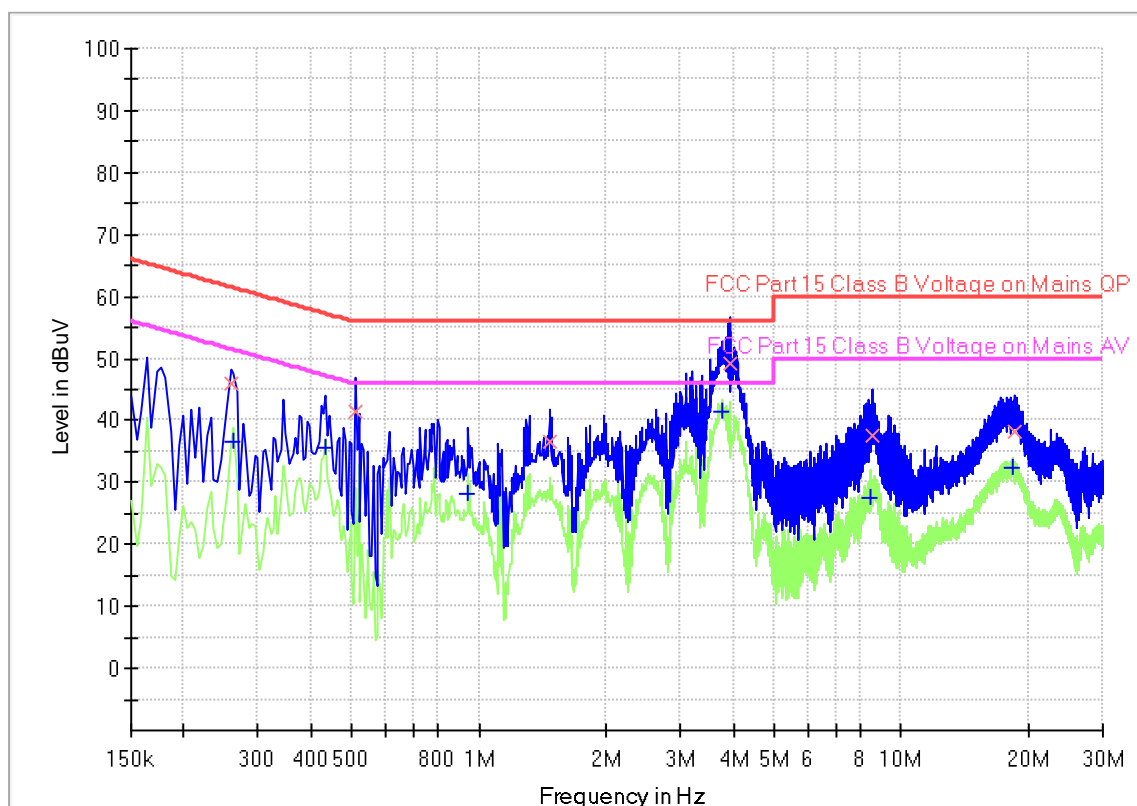
EUT Information

EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: AC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
AC 120V/60Hz, T20.3, H46.2%, P103.1kPa
Operator: Chend Huali
Standard: FCC Part 15 Class B
Comment: Phase L
Sample No.: SHA-567312-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup: Voltage with 2-Line-LISN
Receiver: [ESR 3]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+: AVG	9 kHz	0.01 s	0 dB





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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.258000	45.91	---	61.50	15.59	1000.0	9.000	L1	19.5
0.262500	---	36.56	51.35	14.79	1000.0	9.000	L1	19.5
0.433500	---	35.54	47.19	11.65	1000.0	9.000	L1	19.5
0.510000	41.42	---	56.00	14.58	1000.0	9.000	L1	19.5
0.942000	---	28.04	46.00	17.96	1000.0	9.000	L1	19.5
1.473000	36.61	---	56.00	19.39	1000.0	9.000	L1	19.5
3.750000	---	41.31	46.00	4.69	1000.0	9.000	L1	19.5
3.916500	49.36	---	56.00	6.64	1000.0	9.000	L1	19.5
8.479500	---	27.53	50.00	22.47	1000.0	9.000	L1	19.7
8.578500	37.45	---	60.00	22.55	1000.0	9.000	L1	19.7
18.330000	---	32.54	50.00	17.46	1000.0	9.000	L1	19.7
18.492000	38.20	---	60.00	21.80	1000.0	9.000	L1	19.7



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150k-30MHz Conducted Emission Test

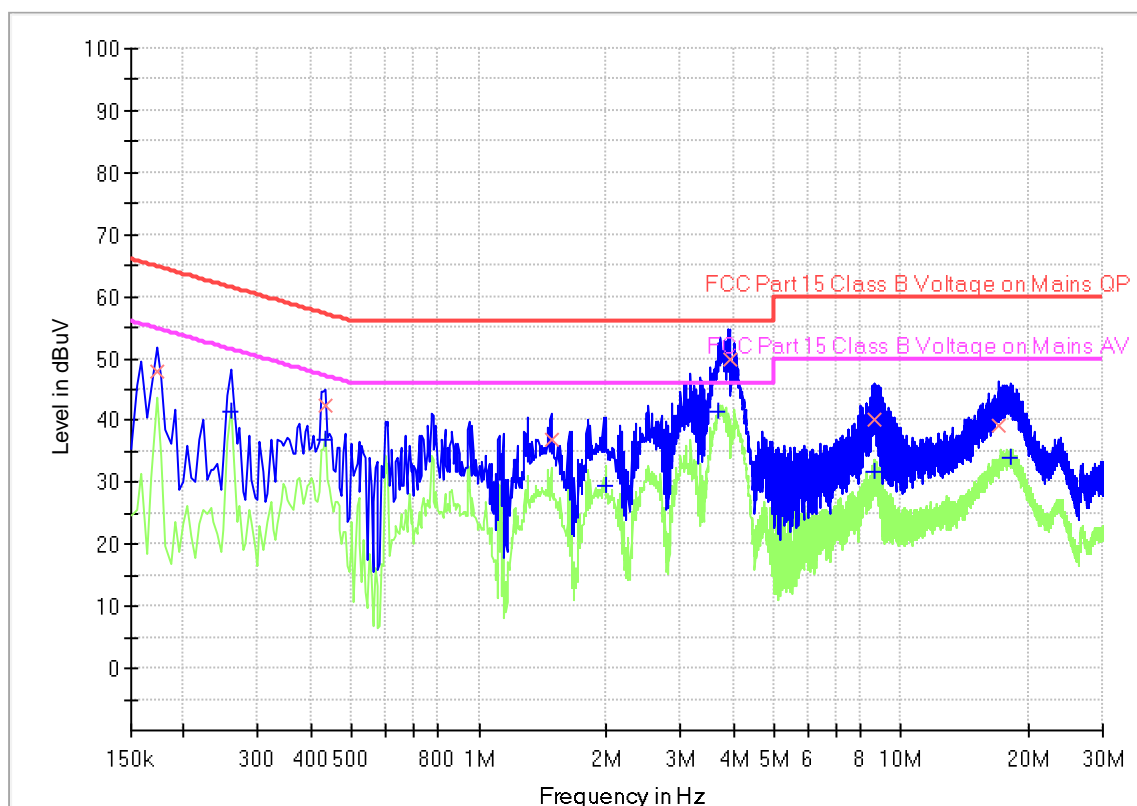
EUT Information

EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: AC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
AC 120V/60Hz, T20.3, H46.2%, P103.1kPa
Operator: Chend Huali
Standard: FCC Part 15 Class B
Comment: Phase N
Sample No.: SHA-567312-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup: Voltage with 2-Line-LISN
Receiver: [ESR 3]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+: AVG	9 kHz	0.01 s	0 dB





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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Corr. (dB)
0.172500	48.01	---	64.84	16.83	1000.0	9.000	N	19.5
0.258000	---	41.50	51.50	10.00	1000.0	9.000	N	19.5
0.433500	---	36.88	47.19	10.31	1000.0	9.000	N	19.5
0.433500	42.53	---	57.19	14.66	1000.0	9.000	N	19.5
1.482000	36.84	---	56.00	19.16	1000.0	9.000	N	19.5
2.004000	---	29.63	46.00	16.37	1000.0	9.000	N	19.5
3.682500	---	41.48	46.00	4.52	1000.0	9.000	N	19.6
3.912000	49.96	---	56.00	6.04	1000.0	9.000	N	19.6
8.601000	40.27	---	60.00	19.73	1000.0	9.000	N	19.7
8.655000	---	31.60	50.00	18.40	1000.0	9.000	N	19.7
17.020500	39.29	---	60.00	20.71	1000.0	9.000	N	19.8
18.136500	---	33.97	50.00	16.03	1000.0	9.000	N	19.8



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6 Radiated Emission

6.1 Test Equipment

The following test Equipment are used:

USED	Equipment Name	Model	Manufacturer	Equipment ID.	Calibration Date	Calibration Due Date
<input checked="" type="checkbox"/>	EMI test receiver	ESR3	R&S	S1503109-YQ-EMC	2020-8-04	2021-8-03
<input checked="" type="checkbox"/>	Trilog super broadband antenna	VULB 9168	SCHWARZBECK	S1808296-YQ-EMC	2019-3-16	2022-3-15
<input checked="" type="checkbox"/>	Double-ridged waveguide horn antenna	HF907	R&S	S1503009-YQ-EMC	2021-4-13	2024-4-12
<input checked="" type="checkbox"/>	Signal conditioning unit	SCU-18D	R&S	S1503012-YQ-EMC	2020-8-04	2021-8-03
<input checked="" type="checkbox"/>	Signal and spectrum analyzer	FSV40	R&S	S1503003-YQ-EMC	2020-8-04	2021-8-03

6.2 Test Specification

Tests are performed according to CFR47 Part 15 subpart B and ICES-003 issue 7.

Limit as below:

CFR47 Part 15 subpart B §15.109 Limits (dB μ V/m)				
Frequency (MHz)	Class A		Class B	
	Distance	QP	Distance	QP
30-88	10m	39	3m	40
88-216	10m	43.5	3m	43.5
216-960	10m	46.4	3m	46
Above 960	10m	49.5	3m	54



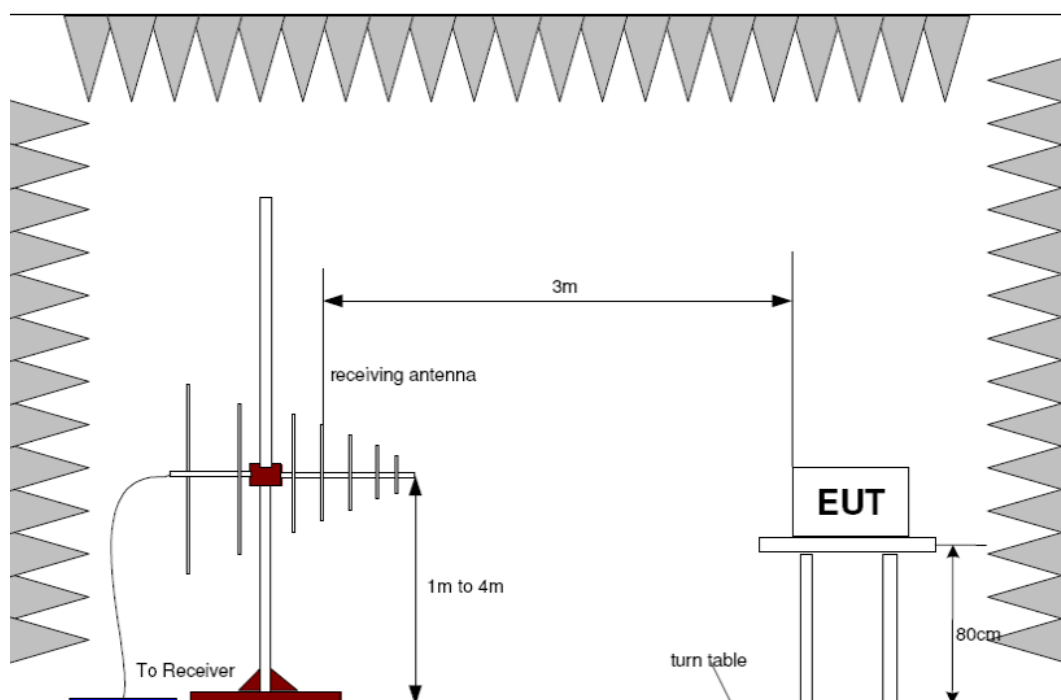
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ICES-003 issue 7 §3.2.2 Limits (dB μ V/m)				
Frequency (MHz)	Class A		Class B	
	Distance	QP	Distance	QP
30-88	10m	40.0	3m	40.0
88-216	10m	43.5	3m	43.5
216-230	10m	46.4	3m	46.0
230-960	10m	47.0	3m	47.0
Above 960	10m	49.5	3m	54.0

6.3 Test Procedure

The EUT is placed on a turntable which is 80cm above ground plane. The turntable rotates 360 degrees and antenna moves up and down between 1m and 4 m to find maximum emission. Both horizontal and vertical polarizations of antenna are set in the measurement. For class A equipment, the EUT is positioned at 10m away from antenna and for class B equipment, the EUT is positioned at 3m away from antenna.

6.4 Test Setup



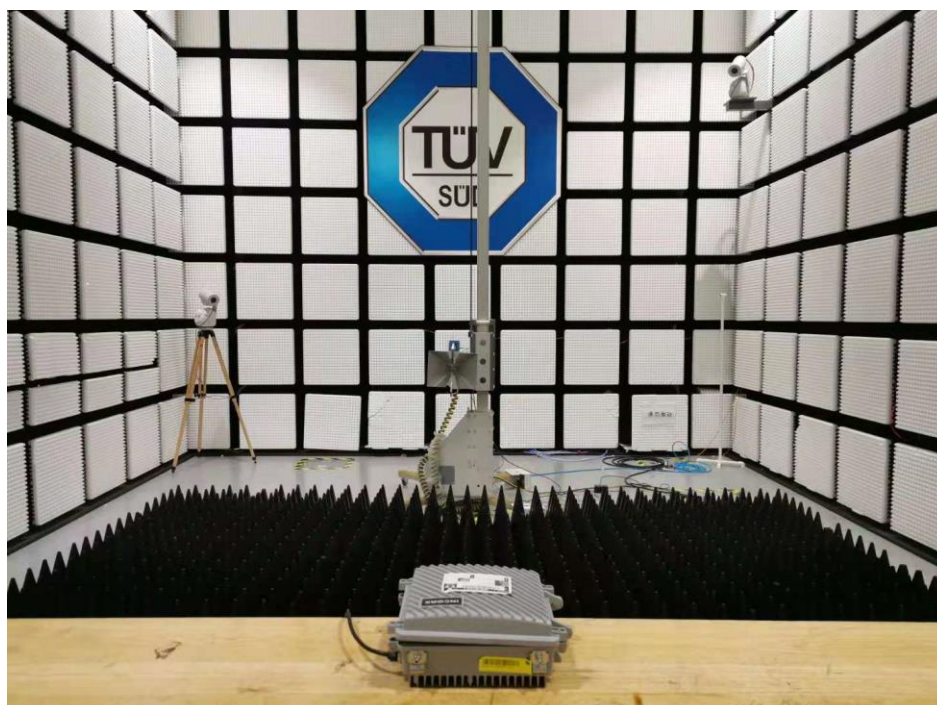
Note: w : The dimension of the line tangent to the EUT formed by $\theta_{-3\text{dB}}$ at the measurement distance 3m

w value	Measurement frequency band	Antenna Model
1.6m	1~18GHz	HF907
1.95m	18~26.5GHz	3116C-PA
0.74m	26.5~40GHz	3116C-PA

6.5 Test Photo



30-1GHz



1-15GHz



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6.6 Test Result

Note 1: Emission Level = Reading level + Correction Factor

Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier Gain

Margin=Limit – Emission Level



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30-1000MHz Radiated Emission

EUT Information

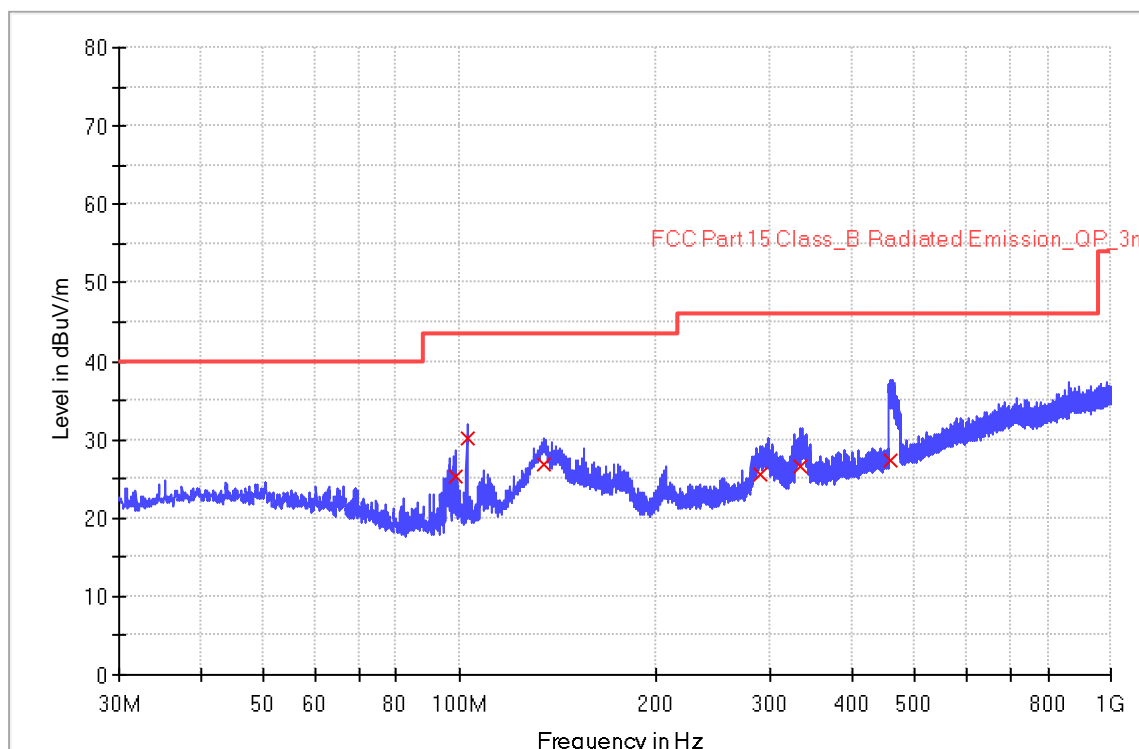
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: AC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
AC 120V/60Hz, T20.4, H51.2%, P103.1kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Horizontal
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE VULB9168
Receiver: IESR 31
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.005 s	20 dB

RE_VULB9168_pre_Cont_30-1000





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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK	Limit - QPK
98.400000	25.3	1000.0	120.000	199.7	H	144.0	11.2	18.2	43.5
102.720000	30.1	1000.0	120.000	199.7	H	186.0	11.6	13.4	43.5
135.040000	26.8	1000.0	120.000	199.7	H	56.0	14.6	16.7	43.5
290.120000	25.5	1000.0	120.000	100.0	H	273.0	14.8	20.5	46.0
333.360000	26.7	1000.0	120.000	100.0	H	245.0	15.9	19.4	46.0
459.560000	27.5	1000.0	120.000	199.7	H	313.0	18.7	18.6	46.0



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30-1000MHz Radiated Emission

EUT Information

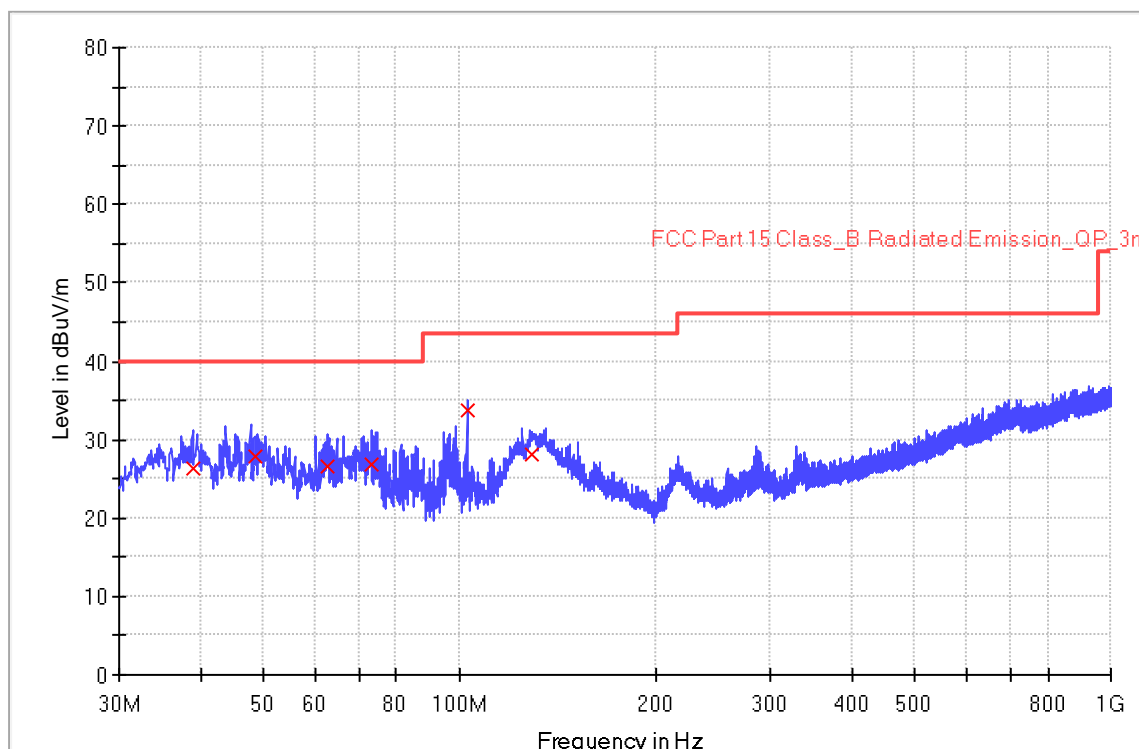
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: AC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
AC 120V/60Hz, T20.4, H51.2%, P103.1kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Vertical
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE VULB9168
Receiver: IESR 31
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.005 s	20 dB

RE_VULB9168_pre_Cont_30-1000





China

Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK	Limit - QPK
38.920000	26.4	1000.0	120.000	100.2	V	51.0	14.6	13.6	40.0
48.440000	27.8	1000.0	120.000	100.2	V	251.0	14.4	12.2	40.0
62.680000	26.7	1000.0	120.000	100.2	V	176.0	13.1	13.3	40.0
73.120000	26.7	1000.0	120.000	100.2	V	134.0	11.3	13.3	40.0
102.760000	33.8	1000.0	120.000	100.2	V	0.0	11.6	9.7	43.5
128.840000	28.0	1000.0	120.000	100.2	V	329.0	14.1	15.5	43.5



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30-1000MHz Radiated Emission

EUT Information

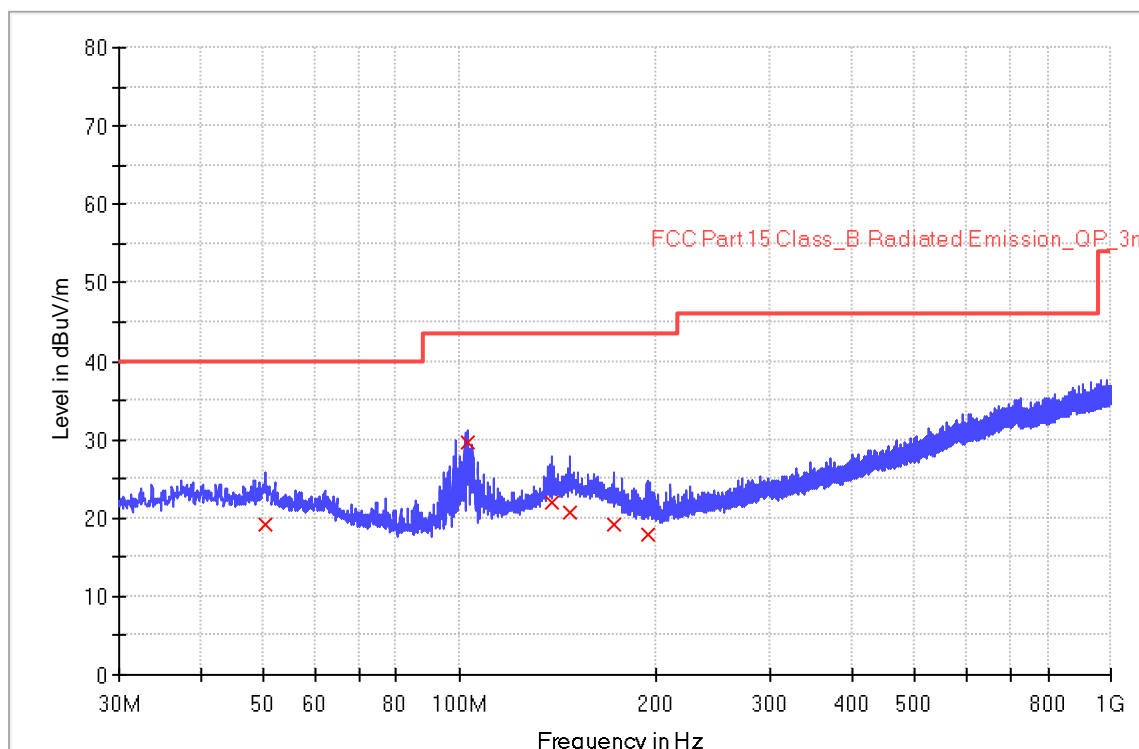
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: DC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
DC 24V, T21.3, H52.3%, P101.9kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Horizontal
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE VULB9168
Receiver: IESR 31
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.005 s	20 dB

RE_VULB9168_pre_Cont_30-1000





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Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK	Limit - QPK
50.400000	19.3	1000.0	120.000	200.0	H	260.0	14.3	20.7	40.0
102.640000	29.6	1000.0	120.000	200.0	H	316.0	11.6	13.9	43.5
138.440000	21.9	1000.0	120.000	200.0	H	222.0	14.8	21.6	43.5
148.160000	20.8	1000.0	120.000	200.0	H	181.0	15.6	22.7	43.5
172.800000	19.1	1000.0	120.000	200.0	H	115.0	14.4	24.4	43.5
194.040000	17.8	1000.0	120.000	200.0	H	35.0	12.0	25.7	43.5



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30-1000MHz Radiated Emission

EUT Information

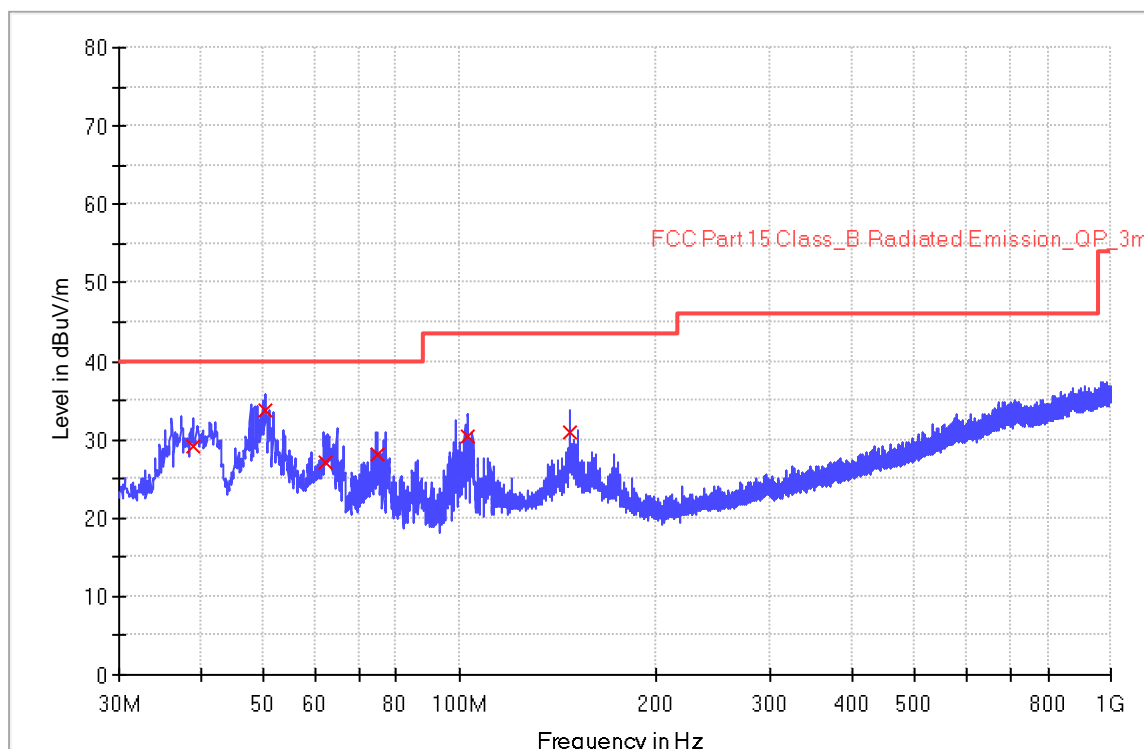
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: DC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
DC24V, T21.3, H52.3%, P101.9kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Vertical
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE VULB9168
Receiver: IESR 31
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamplifier
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.005 s	20 dB

RE_VULB9168_pre_Cont_30-1000





China

Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK	Limit - QPK
38.920000	29.2	1000.0	120.000	100.3	V	97.0	14.6	10.8	40.0
50.400000	33.7	1000.0	120.000	100.3	V	57.0	14.3	6.3	40.0
62.200000	27.0	1000.0	120.000	100.3	V	332.0	13.2	13.0	40.0
74.560000	28.1	1000.0	120.000	100.3	V	263.0	11.1	12.0	40.0
102.760000	30.5	1000.0	120.000	100.3	V	151.0	11.6	13.0	43.5
148.080000	31.0	1000.0	120.000	100.3	V	194.0	15.5	12.5	43.5



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1-15GHz Radiated Emission

EUT Information

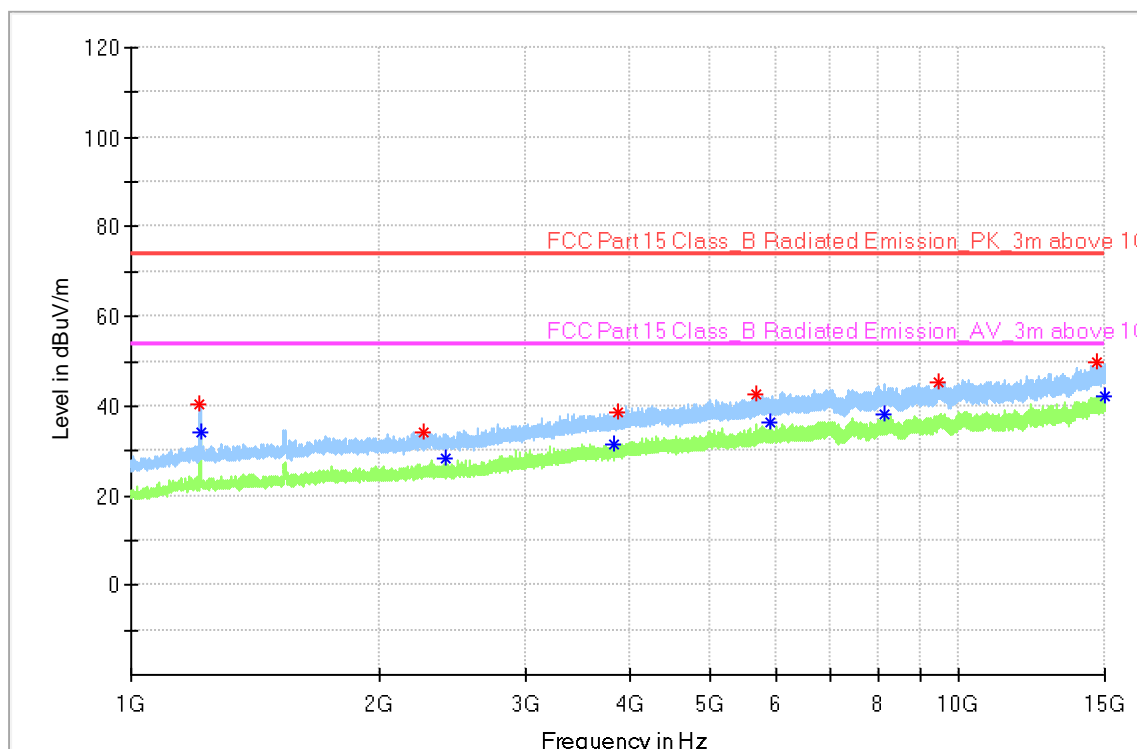
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: AC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
AC 120V/60Hz, T21.3, H52.3%, P101.9kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Horizontal
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE HF907
Receiver: IFSV 401
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 18 GHz	566.667 kHz	PK+: AVG	1 MHz	0.2 s	0 dB

Full Spectrum





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Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
9429.866667	45.10	---	74.00	28.90	100.0	H	34.0
8142.333333	---	38.19	54.00	15.81	100.0	H	109.0
3824.266667	---	31.57	54.00	22.43	100.0	H	139.0
3871.400000	38.77	---	74.00	35.23	100.0	H	175.0
14639.266667	49.73	---	74.00	24.27	100.0	H	199.0
5928.466667	---	36.27	54.00	17.73	100.0	H	210.0
1211.866667	40.50	---	74.00	33.50	100.0	H	216.0
1212.333333	---	34.08	54.00	19.92	100.0	H	216.0
2402.333333	---	28.12	54.00	25.88	100.0	H	322.0
5684.866667	42.80	---	74.00	31.20	100.0	H	322.0
14994.400000	---	42.01	54.00	11.99	100.0	H	345.0
2252.533333	34.16	---	74.00	39.84	100.0	H	356.0



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1-15GHz Radiated Emission

EUT Information

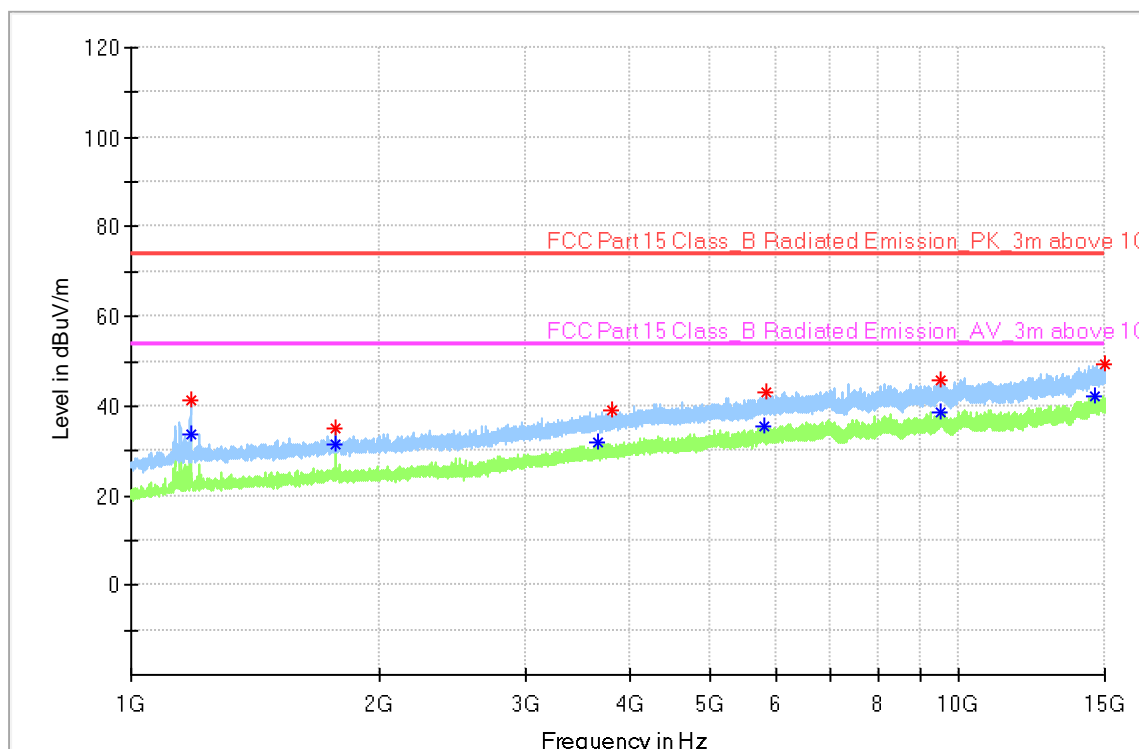
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: AC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
AC 120V/60Hz, T21.3, H52.3%, P101.9kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Vertical
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE HF907
Receiver: IFSV 401
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 18 GHz	566.667 kHz	PK+: AVG	1 MHz	0.2 s	0 dB

Full Spectrum





China

Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
3661.400000	---	31.69	54.00	22.31	100.0	V	0.0
14627.133333	---	42.26	54.00	11.74	100.0	V	108.0
1765.800000	---	31.66	54.00	22.34	100.0	V	126.0
1765.800000	35.19	---	74.00	38.81	100.0	V	126.0
3800.466667	38.92	---	74.00	35.08	100.0	V	191.0
5807.600000	---	35.51	54.00	18.49	100.0	V	214.0
1178.733333	---	33.74	54.00	20.26	100.0	V	220.0
1179.666667	41.10	---	74.00	32.90	100.0	V	220.0
15000.000000	49.22	---	74.00	24.78	100.0	V	237.0
5842.133333	42.89	---	74.00	31.11	100.0	V	290.0
9481.200000	---	38.56	54.00	15.44	100.0	V	318.0
9503.600000	45.93	---	74.00	28.07	100.0	V	336.0



China

1-15GHz Radiated Emission

EUT Information

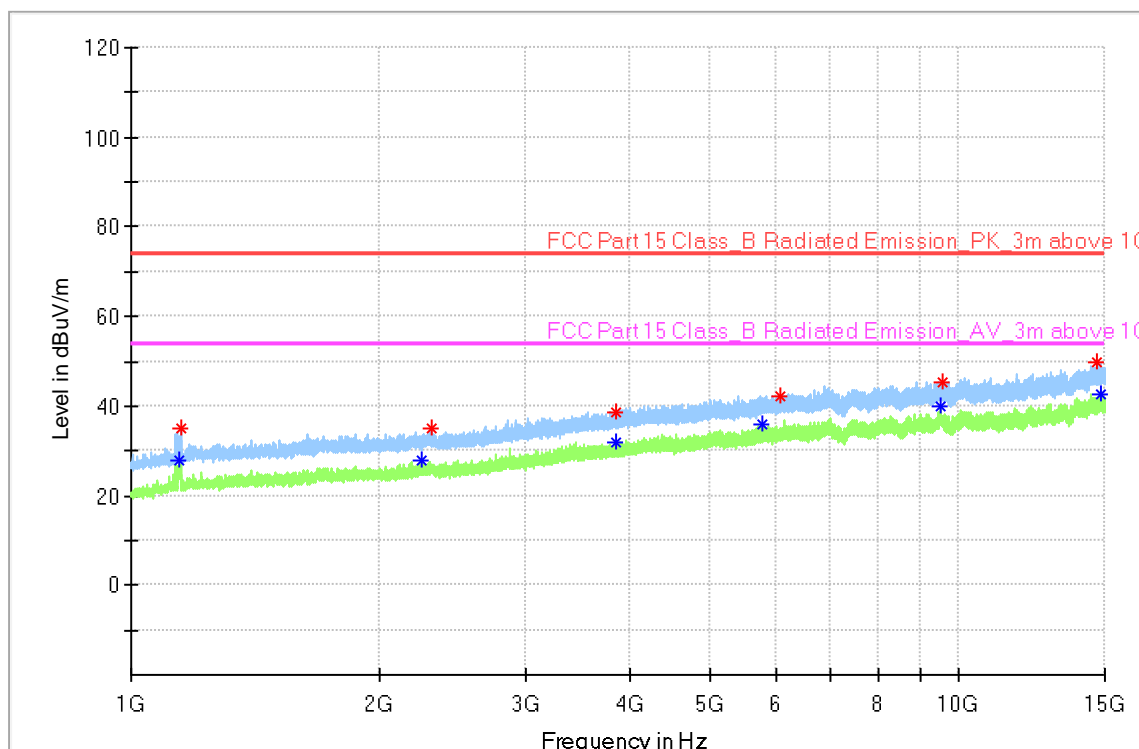
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: DC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
DC24V, T21.3, H52.3%, P101.9kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Horizontal
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE HF907
Receiver: IFSV 401
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 18 GHz	566.667 kHz	PK+: AVG	1 MHz	0.2 s	0 dB

Full Spectrum





China

Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
2248.333333	---	27.86	54.00	26.14	100.0	H	0.0
6073.600000	42.28	---	74.00	31.72	100.0	H	0.0
14831.066667	---	42.75	54.00	11.25	100.0	H	55.0
1140.466667	---	27.88	54.00	26.12	100.0	H	78.0
1148.400000	34.83	---	74.00	39.17	100.0	H	102.0
9539.533333	45.45	---	74.00	28.55	100.0	H	180.0
5798.266667	---	35.90	54.00	18.10	100.0	H	185.0
3858.333333	---	31.89	54.00	22.11	100.0	H	234.0
3851.333333	38.65	---	74.00	35.35	100.0	H	246.0
14678.000000	49.60	---	74.00	24.40	100.0	H	252.0
9502.200000	---	39.77	54.00	14.23	100.0	H	264.0
2307.133333	34.81	---	74.00	39.19	100.0	H	358.0



China

1-15GHz Radiated Emission

EUT Information

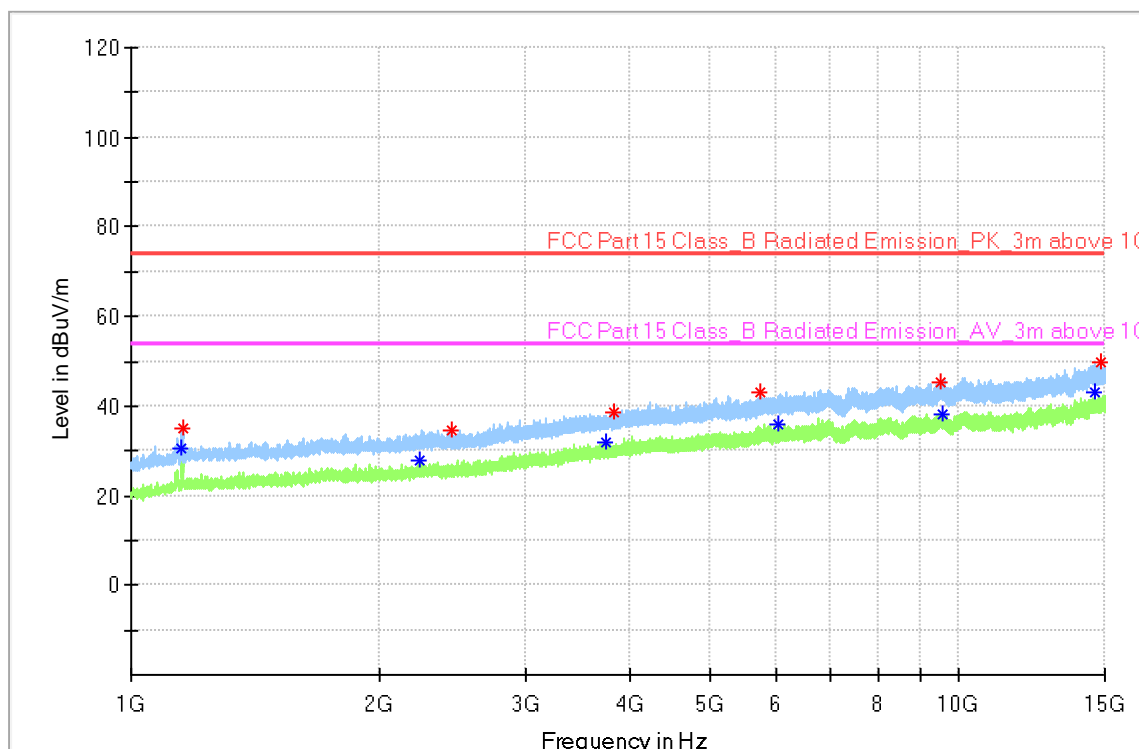
EUT Name: DPU
Model: INCOAX D2501 US
Client: Incoax Networks AB
Op Cond: DC Power on (Coaxial Network mode for TV / DOCSIS 3.0 networks),
DC24V, T21.3, H52.3%, P101.9kPa
Operator: Chend huali
Test Spec: FCC Part 15 Class B
Comment: Vertical
Sample No: SHA-567312-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE HF907
Receiver: IFSV 401
Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
1 GHz - 18 GHz	566.667 kHz	PK+: AVG	1 MHz	0.2 s	0 dB

Full Spectrum





China

Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1152.133333	---	30.65	54.00	23.35	100.0	V	14.0
1154.000000	35.19	---	74.00	38.81	100.0	V	14.0
3755.666667	---	31.77	54.00	22.23	100.0	V	20.0
3840.133333	38.74	---	74.00	35.26	100.0	V	48.0
9487.266667	45.35	---	74.00	28.65	100.0	V	193.0
14574.400000	---	42.85	54.00	11.15	100.0	V	205.0
2225.000000	---	27.66	54.00	26.34	100.0	V	275.0
6055.400000	---	35.71	54.00	18.29	100.0	V	298.0
9540.933333	---	38.31	54.00	15.69	100.0	V	321.0
2436.400000	34.60	---	74.00	39.40	100.0	V	333.0
14805.866667	49.64	---	74.00	24.36	100.0	V	333.0
5762.333333	43.27	---	74.00	30.73	100.0	V	344.0



China

7 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

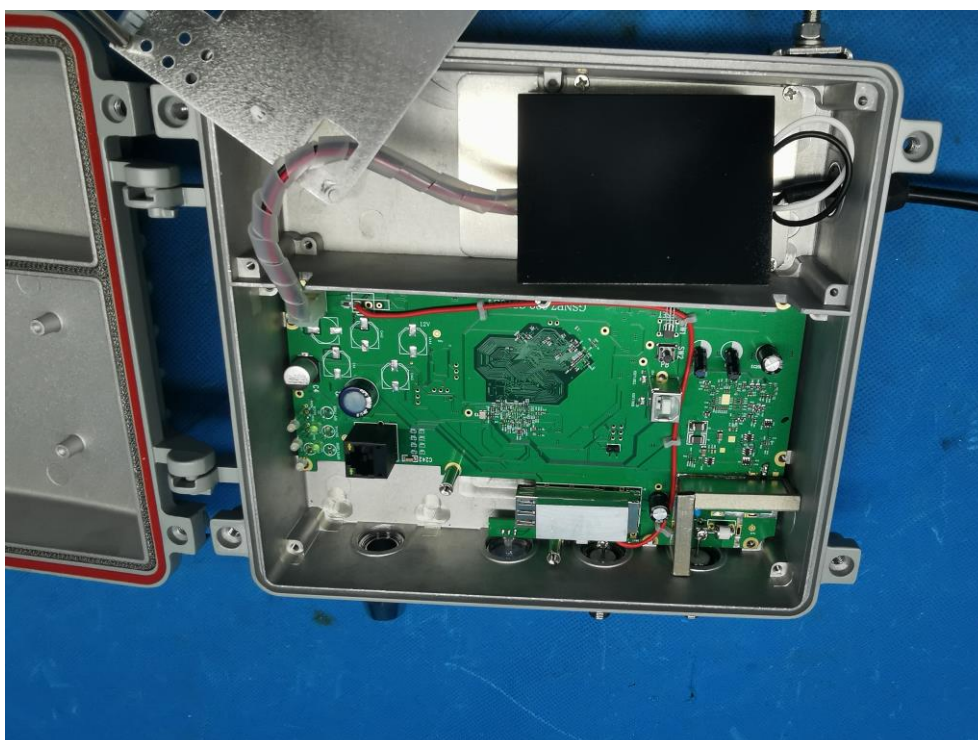
Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, $\pm 3.16\text{dB}$
Radiated Disturbance	30MHz to 1GHz, $\pm 5.03\text{dB}$ (Horizontal)
	$\pm 5.12\text{dB}$ (Vertical)
	1GHz to 18GHz, $\pm 5.49\text{dB}$
	18GHz to 40GHz, $\pm 5.63\text{dB}$

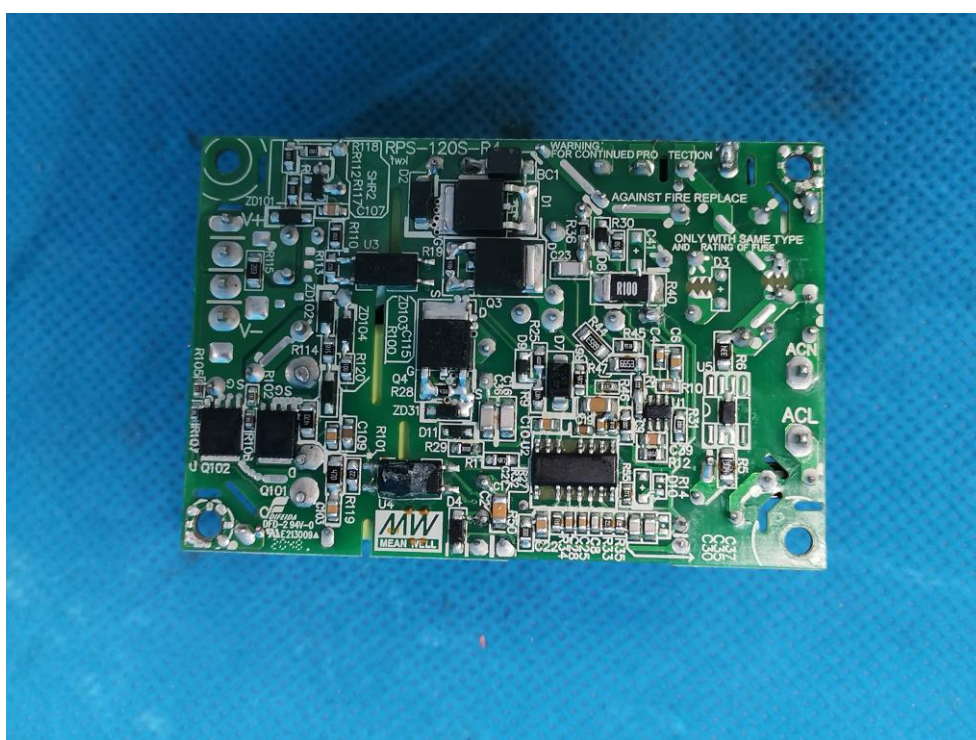
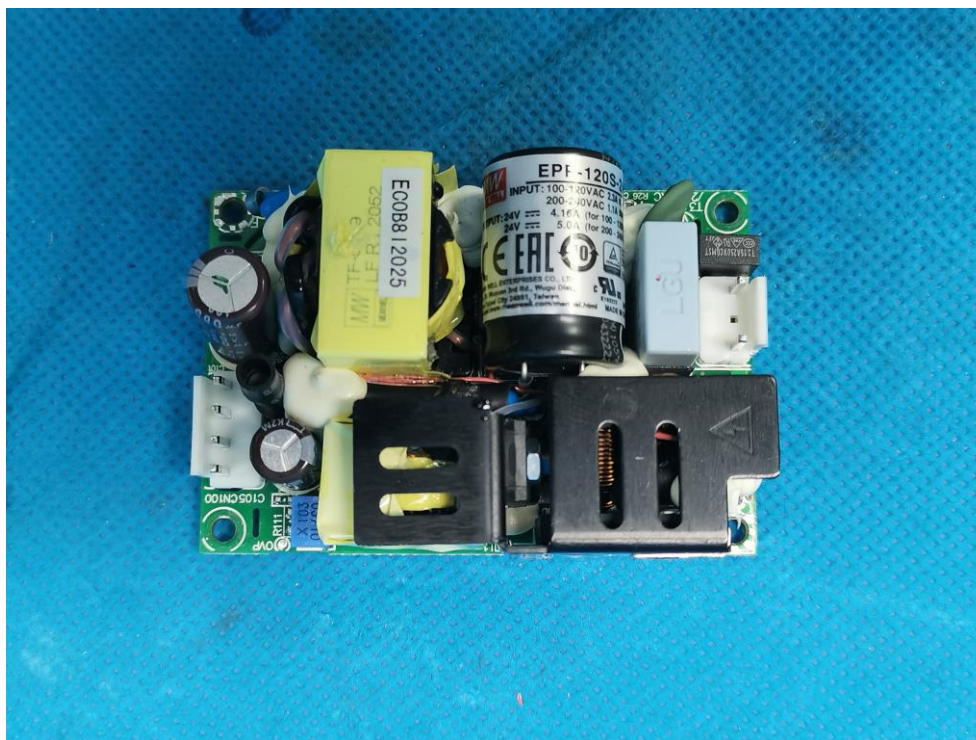
8 EUT Photograph

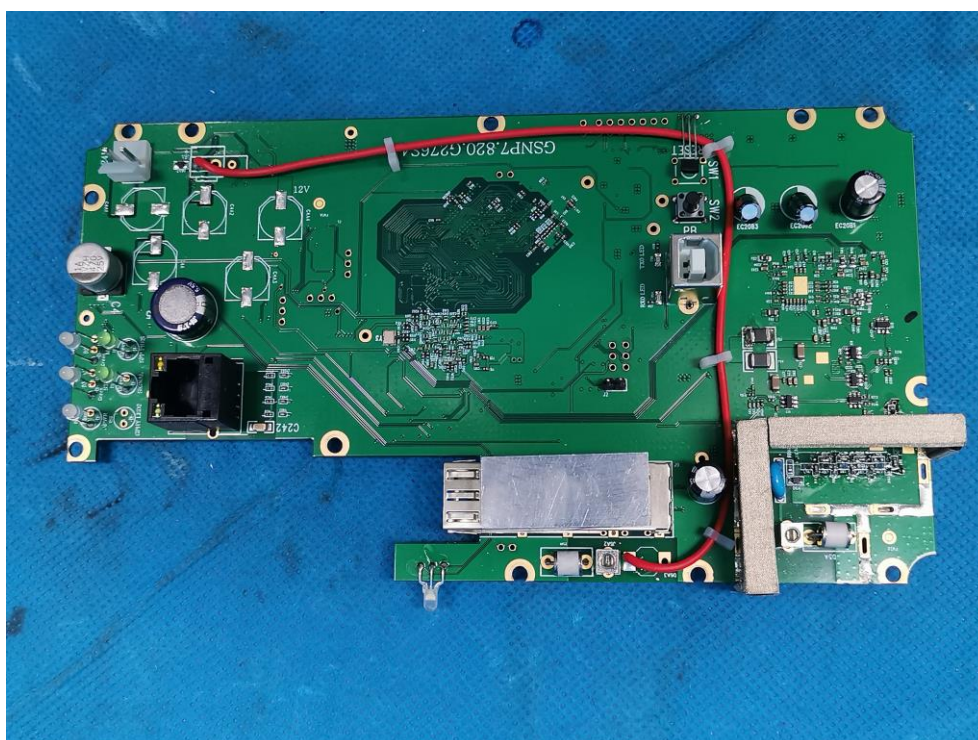
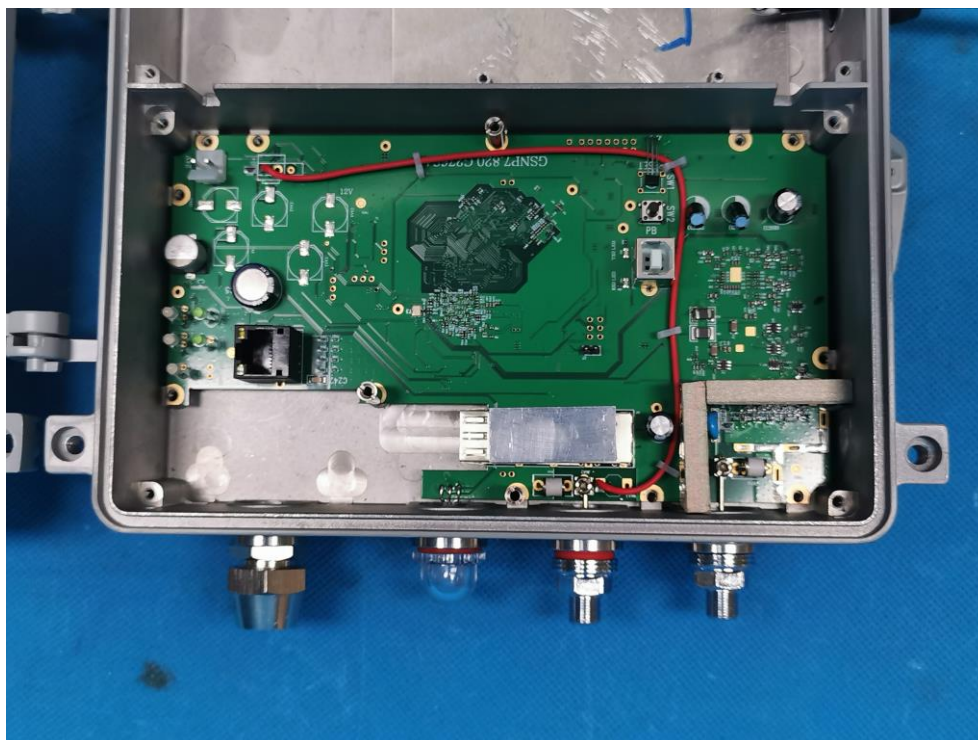


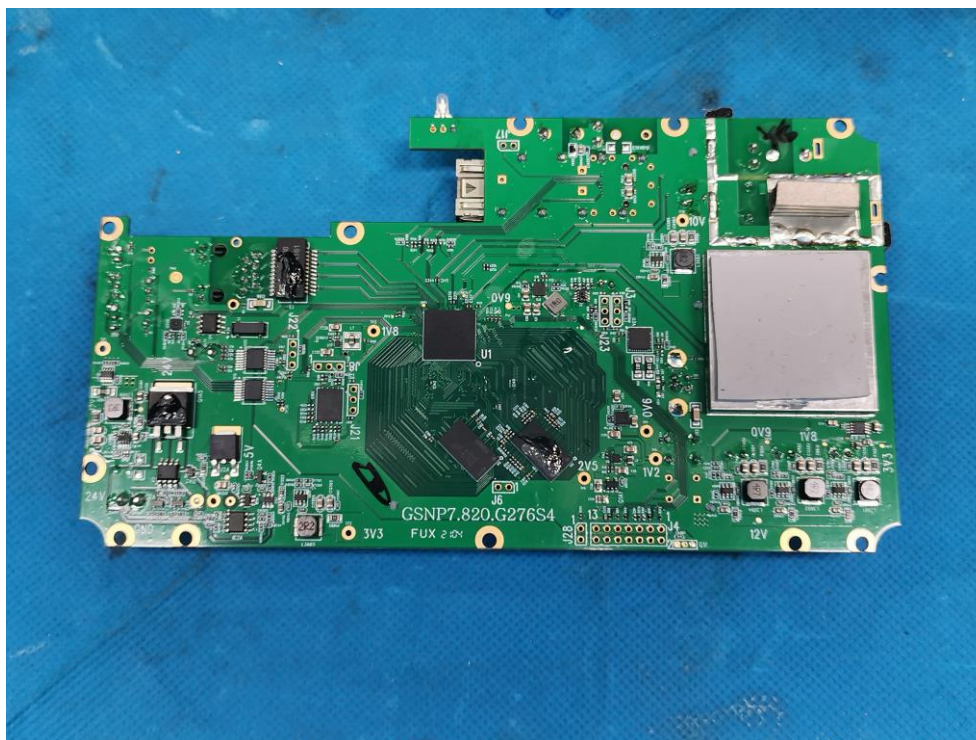












In:xtnd

