



China

FCC/ISED Test Report

Report Number : 7095022051423-00 Date of Issue: Oct. 10, 2022

Model / Serial No. : For the detail model list refer to page 4

Product Type : Access Modem

FCC ID : 2ATQM1000-0571

Applicant : Incoax Networks AB

Manufacturer : Incoax Networks AB

License holder : Incoax Networks AB

Address : Utmarksvagen 4, 80291 Gavle, Sweden

Test Result : Positive Negative

Total pages : 29

Date of Test : Sep. 30, 2022

Reviewed by:

Prepared by:

Tested by:

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EMC Section Manager

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EMC Project Manager

Chengjie GUO
EMC Test Engineer

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Rev.21.00

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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	10/10/2022

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
FCC Registration No.: 820234
FCC Designation Number: CN1183
ISED#: 25988
CAB identifier: CN0101

Ambient Condition in laboratory:

Items	Test	Required(IEC68-1)	Actual
Temperature(°C)	ANSI.C 63.4 CE	15-35	21.3
Humidity (%)		25-75	56.8
Atmospheric Pressure(mbar)		860-1060	1013
Temperature(°C)	ANSI.C 63.4 RE	15-35	21.8
Humidity (%)		25-75	52.7
Atmospheric Pressure(mbar)		860-1060	1016



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3. EUT Information

3.1 EUT Description

Product Type	:	Access Modem
Model / Serial No.	:	InCoax Access A2512 RPF AD ER, InCoax Access A2511 RPF AA, InCoax Access A2511 RPF AB, InCoax Access A2511 RPF AC, InCoax Access A2511 RPF AD, InCoax Access A2511 RPF AE, InCoax Access A2511 RPF IP, InCoax Access A2511 RPF AA ER, InCoax Access A2511 RPF AB ER, InCoax Access A2511 RPF AC ER, InCoax Access A2511 RPF AD ER, InCoax Access A2511 RPF AE ER, InCoax Access A2511 RPF IP ER, InCoax Access A2512 RPF AA, InCoax Access A2512 RPF AB, InCoax Access A2512 RPF AC, InCoax Access A2512 RPF AD, InCoax Access A2512 RPF AE, InCoax Access A2512 RPF AA ER, InCoax Access A2512 RPF AB ER, InCoax Access A2512 RPF AC ER, InCoax Access A2512 RPF AE ER, InCoax Access A2511 AA, InCoax Access A2511 AB, InCoax Access A2511 AC, InCoax Access A2511 AD, InCoax Access A2511 AE, InCoax Access A2511 IP, InCoax Access A2511 AA ER, InCoax Access A2511 AB ER, InCoax Access A2511 AC ER, InCoax Access A2511 AD ER, InCoax Access A2511 AE ER, InCoax Access A2511 IP ER, InCoax Access A2512 AA, InCoax Access A2512 AB, InCoax Access A2512 AC, InCoax Access A2512 AD, InCoax Access A2512 AE, InCoax Access A2512 AA ER, InCoax Access A2512 AB ER, InCoax Access A2512 AC ER, InCoax Access A2512 AD ER, InCoax Access A2512 AE ER
EUT Voltage	:	12VDC with adapter for InCoax Access A2512 AD ER; 56VDC with adapter for InCoax Access A2512 RPF AD ER
Rating of adapter	:	Input: AC100-240V,50/60Hz

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.



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3.2 EUT Configuration

Configuration1	:	DC 12V (with adapter), DC 56V (with adapter), Power on and connect to peripheral devices
----------------	---	--

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
- Power on and connect to peripheral devices by Coax port.

3.4 Peripheral devices and interface cables were connected during the testing:

- - Laptop Type : E470, manufacture: Lenovo
- - 4 Channel Ethernet over Coax Access Node Type : In:xtnd Control MA 2.5

3.5 EUT Exercise Software:

N/A

3.6 EUT Modification

N/A

4. Test Summary

Test	Specification	Test Result	Remark
Conducted Emission	CFR47 Part 15 §15.107, ICES-003 §3.2.1	Pass	Refer to page 7-16
Radiated Emission	CFR47 Part 15 §15.109, ICES-003 §3.2.2	Pass	Refer to page 17-27

Remarks:

The EUT was an Access Modem.



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According to the client's declaration, the circuits and functions of these products are basically the same, the differences between them are: 1. A2511 in the model number represents RF single port products and A2512 represents RF dual port products. 2. AA, AB, AC, AD, AE, IP in model number indicate that the RF working bands are different. 3. ER in the model number indicates that the product is with amplification function; 4. With RPF in the model number means it has reverse DC 56V power supply function, and without RPF means DC 12V power feed, so all the tests were applied on InCoax Access A2512 AD ER and InCoax Access A2512 RPF AD ER, other models are deemed to fulfill all the requirement without further testing.

According to the section 15.33 of FCC part 15 the highest frequency generated or used in the device or on which the device operates or tunes (MHz) is less than 108MHz (50MHz), so the upper frequency of measurement range (MHz) is 1GHz.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705-108	1000.
108-500	2000.
500-1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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.



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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 Due Date
<input checked="" type="checkbox"/>	EMI test receiver	ESR3	R&S	S1503001-YQ-EMC	2023-7-31
<input checked="" type="checkbox"/>	2-Line V-network	ENV216	R&S	S1503103-YQ-EMC	2023-7-31
<input type="checkbox"/>	4-Line V-network	ENV4200	R&S	S1503106-YQ-EMC	2023-7-31

5.2 Test Specification

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

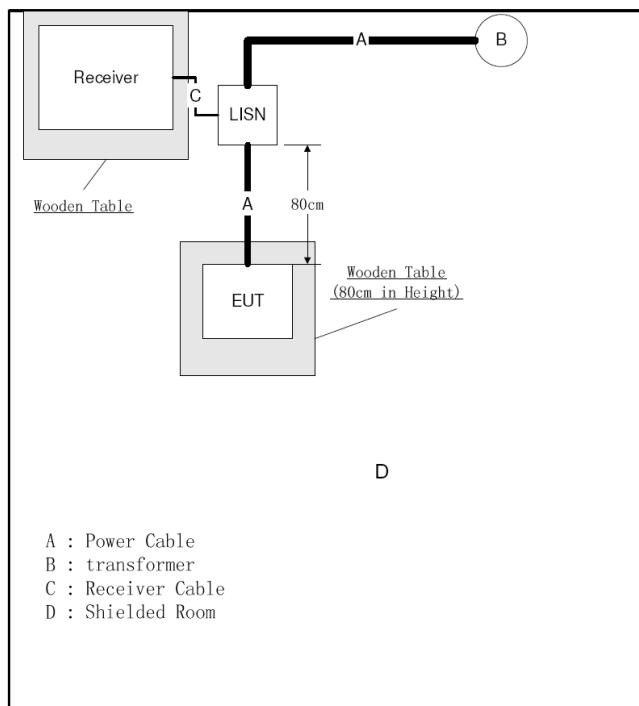
Limit as below:

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

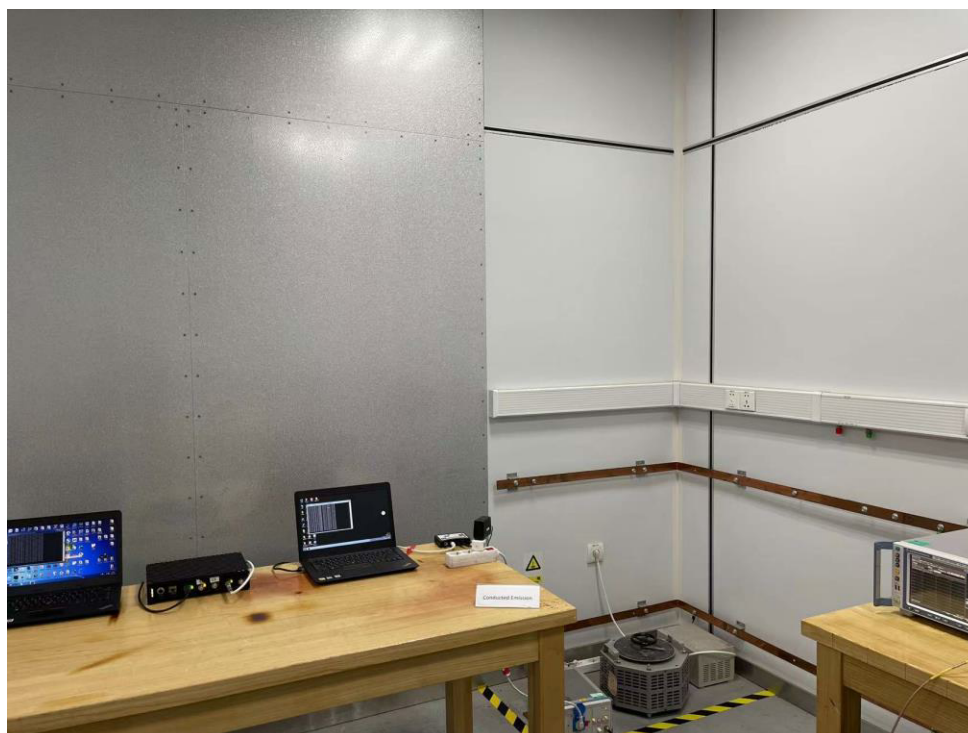
5.3 Test Procedure

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

150k-30MHz Conducted Emission Test

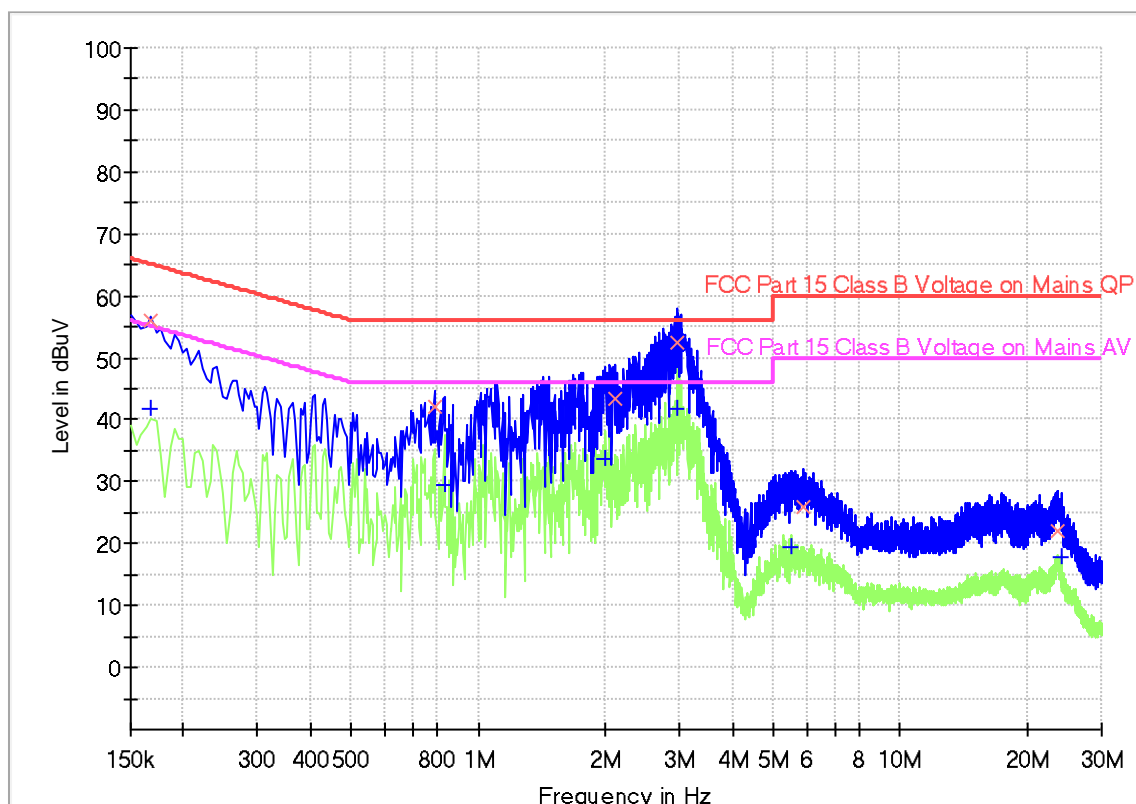
EUT Information

EUT Name: Access modem
Model: InCoax Access A2512 AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.8, H52.7%, P101.6kPa
Operator: Guo Chengjie
Standard: FCC Part 15B Class B
Comment: Phase L
Sample No.: SHA-681292-1

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	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB





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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.168000	---	41.61	55.06	13.45	1000.0	9.000	L1	19.5
0.168000	55.86	---	65.06	9.20	1000.0	9.000	L1	19.5
0.789000	42.16	---	56.00	13.84	1000.0	9.000	L1	19.5
0.829500	---	29.32	46.00	16.68	1000.0	9.000	L1	19.5
2.008500	---	33.74	46.00	12.26	1000.0	9.000	L1	19.5
2.107500	43.45	---	56.00	12.55	1000.0	9.000	L1	19.5
2.949000	---	41.90	46.00	4.10	1000.0	9.000	L1	19.6
2.971500	52.32	---	56.00	3.68	1000.0	9.000	L1	19.5
5.541000	---	19.32	50.00	30.68	1000.0	9.000	L1	19.6
5.865000	25.87	---	60.00	34.13	1000.0	9.000	L1	19.6
23.464500	22.17	---	60.00	37.83	1000.0	9.000	L1	20.0
24.000000	---	17.85	50.00	32.15	1000.0	9.000	L1	20.0



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150k-30MHz Conducted Emission Test

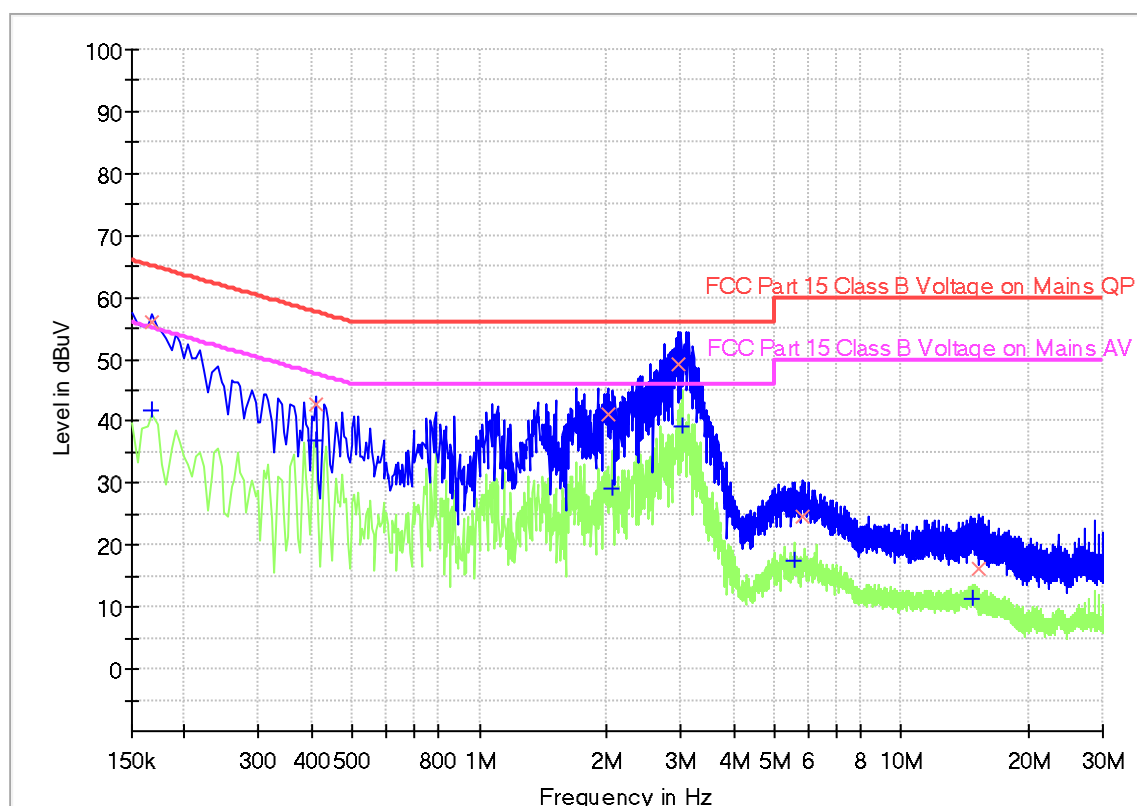
EUT Information

EUT Name: Access modem
Model: InCoax Access A2512 AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.8, H52.7%, P101.6kPa
Operator: Guo Chengjie
Standard: FCC Part 15B Class B
Comment: Phase N
Sample No.: SHA-681292-1

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	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB





China

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.168000	---	41.63	55.06	13.43	1000.0	9.000	N	19.5
0.168000	56.05	---	65.06	9.01	1000.0	9.000	N	19.5
0.411000	---	36.85	47.63	10.78	1000.0	9.000	N	19.5
0.411000	42.77	---	57.63	14.86	1000.0	9.000	N	19.5
2.013000	41.13	---	56.00	14.87	1000.0	9.000	N	19.5
2.053500	---	29.04	46.00	16.96	1000.0	9.000	N	19.5
2.962500	49.10	---	56.00	6.90	1000.0	9.000	N	19.5
3.034500	---	39.08	46.00	6.92	1000.0	9.000	N	19.5
5.554500	---	17.54	50.00	32.46	1000.0	9.000	N	19.6
5.851500	24.65	---	60.00	35.35	1000.0	9.000	N	19.6
14.770500	---	11.34	50.00	38.66	1000.0	9.000	N	19.8
15.175500	16.17	---	60.00	43.83	1000.0	9.000	N	19.8



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150k-30MHz Conducted Emission Test

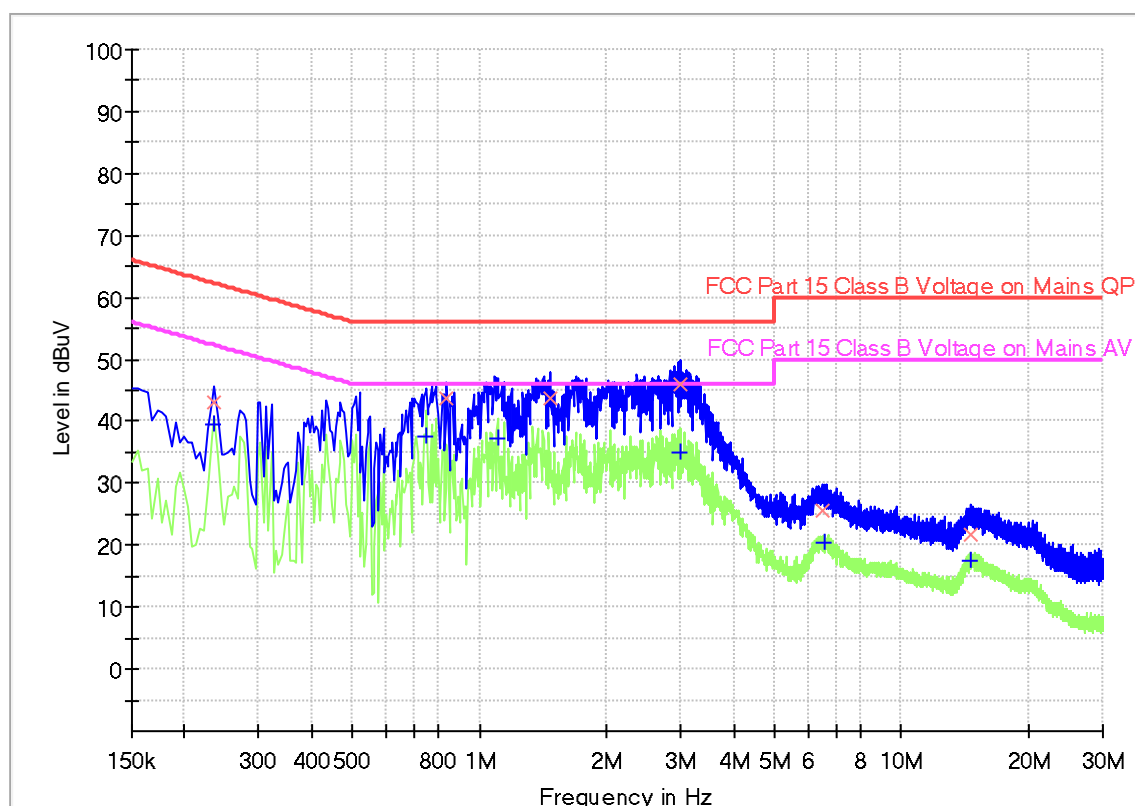
EUT Information

EUT Name: Access modem
Model: InCoax Access A2512 RPF AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.3, H56.8%, P101.3kPa
Operator: Guo Chengjie
Standard: FCC Part 15B Class B
Comment: Phase L
Sample No.: SHA-681292-2

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	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB





China

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.235500	---	39.64	52.25	12.61	1000.0	9.000	L1	19.5
0.235500	42.96	---	62.25	19.29	1000.0	9.000	L1	19.5
0.748500	---	37.53	46.00	8.47	1000.0	9.000	L1	19.5
0.834000	43.76	---	56.00	12.24	1000.0	9.000	L1	19.5
1.104000	---	37.26	46.00	8.74	1000.0	9.000	L1	19.5
1.473000	43.75	---	56.00	12.25	1000.0	9.000	L1	19.5
2.989500	45.88	---	56.00	10.12	1000.0	9.000	L1	19.6
2.994000	---	34.86	46.00	11.14	1000.0	9.000	L1	19.6
6.526500	25.56	---	60.00	34.44	1000.0	9.000	L1	19.6
6.535500	---	20.57	50.00	29.43	1000.0	9.000	L1	19.6
14.541000	---	17.48	50.00	32.52	1000.0	9.000	L1	19.8
14.635500	21.62	---	60.00	38.38	1000.0	9.000	L1	19.8



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150k-30MHz Conducted Emission Test

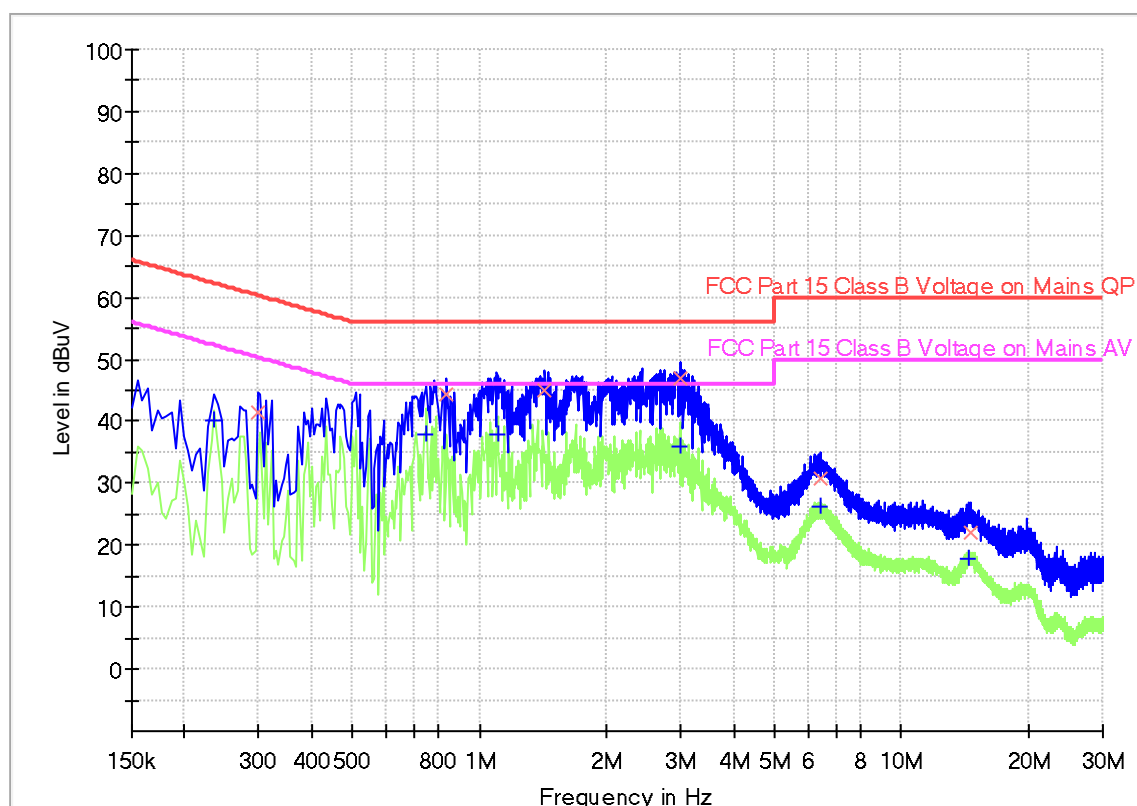
EUT Information

EUT Name: Access modem
Model: InCoax Access A2512 RPF AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.3, H56.8%, P101.3kPa
Operator: Guo Chengjie
Standard: FCC Part 15B Class B
Comment: Phase N
Sample No.: SHA-681292-2

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	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB





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Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.235500	---	40.25	52.25	12.00	1000.0	9.000	N	19.5
0.298500	41.60	---	60.28	18.68	1000.0	9.000	N	19.5
0.748500	---	37.96	46.00	8.04	1000.0	9.000	N	19.5
0.834000	44.24	---	56.00	11.76	1000.0	9.000	N	19.5
1.104000	---	38.03	46.00	7.97	1000.0	9.000	N	19.5
1.428000	44.99	---	56.00	11.01	1000.0	9.000	N	19.5
2.989500	47.10	---	56.00	8.90	1000.0	9.000	N	19.5
2.994000	---	36.01	46.00	9.99	1000.0	9.000	N	19.5
6.400500	30.83	---	60.00	29.17	1000.0	9.000	N	19.6
6.423000	---	26.10	50.00	23.90	1000.0	9.000	N	19.6
14.491500	---	17.85	50.00	32.15	1000.0	9.000	N	19.7
14.626500	21.99	---	60.00	38.01	1000.0	9.000	N	19.8

Note 1: Emission Level = Reading level + Correction Factor

Correction Factor = LISN Factor + Cable Loss + Attenuator Factor

Margin=Limit – Emission Level



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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 Due Date
<input checked="" type="checkbox"/>	EMI test receiver	ESR3	R&S	S1503109-Y Q-EMC	2023-7-31
<input checked="" type="checkbox"/>	Trilog super broadband antenna	VULB 9168	SCHWARZBE CK	S1808296-Y Q-EMC	2024-9-22
<input type="checkbox"/>	Double-ridged waveguide horn antenna	HF907	R&S	S1503009-Y Q-EMC	2024-4-12
<input type="checkbox"/>	Signal conditioning unit	SCU-18D	R&S	S1503012-Y Q-EMC	2023-7-31
<input type="checkbox"/>	Signal and spectrum analyzer	FSV40	R&S	S1503003-Y Q-EMC	2023-7-31

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 (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

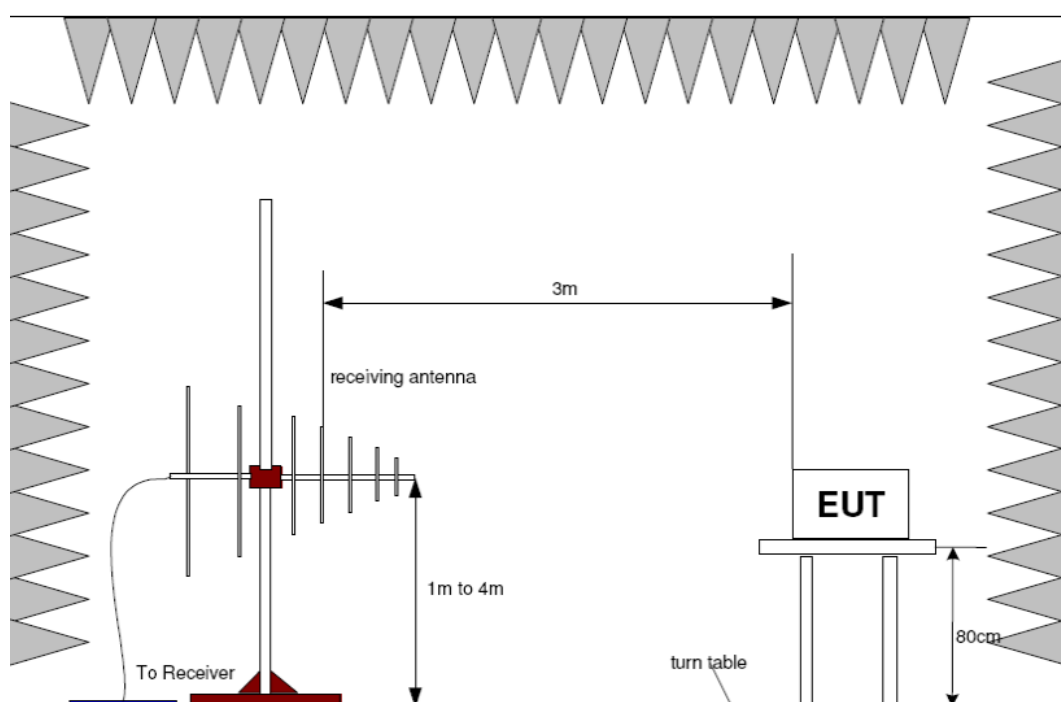
ICES-003 issue 7 §3.2.2 Limits (dB μ V/m)				
Frequency (MHz)	Class A		Class B	
	Distance	QP	Distance	QP
30-88	10m	40.0	3m	40
88-216	10m	43.5	3m	43.5
216-230	10m	46.4	3m	46
230-960	10m	47.0	3m	47
Above 960	10m	49.5	3m	54

Remark: 3m limit=10m limit +k
 3m limit =10m limit+10
 $k=20\log(d1/d2)=20\log(10/3)=10$

6.3 Test Procedure

The EUT is placed on a turntable which is 80cm above ground plane. The turn table 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. The EUT is positioned at 3m away from antenna.

6.4 Test Setup



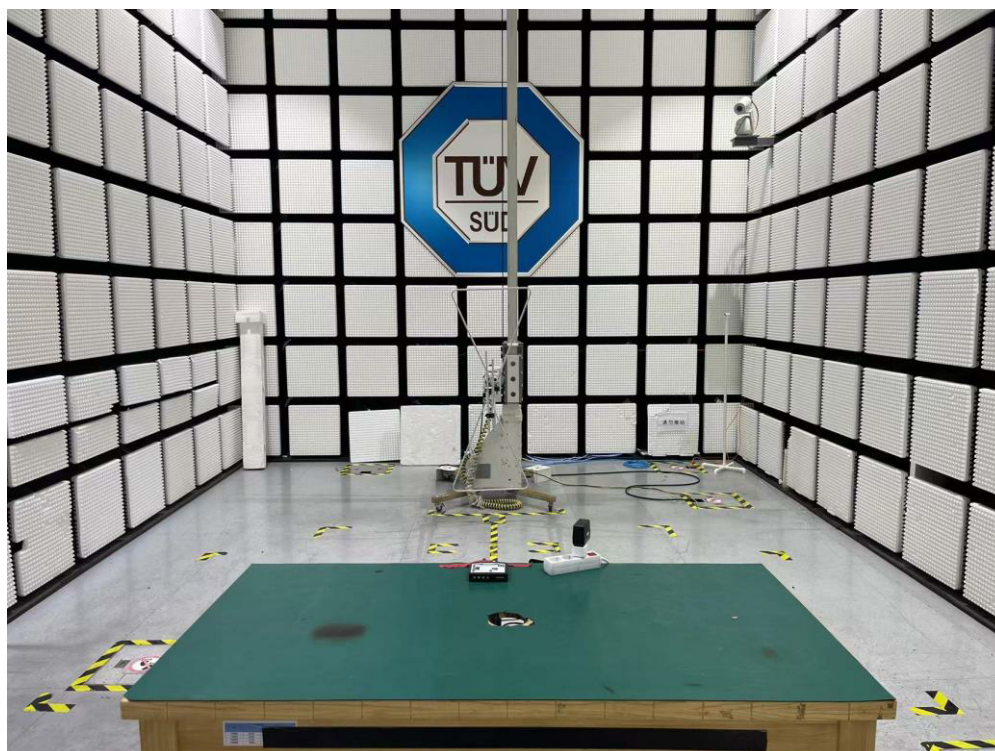
Note: w : The dimension of the line tangent to the EUT formed by $\theta_{3\text{dB}}$ at the measurement distance 3m

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



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6.5 Test Photo





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6.6 Test Result

30-1000MHz Radiated Emission

EUT Information

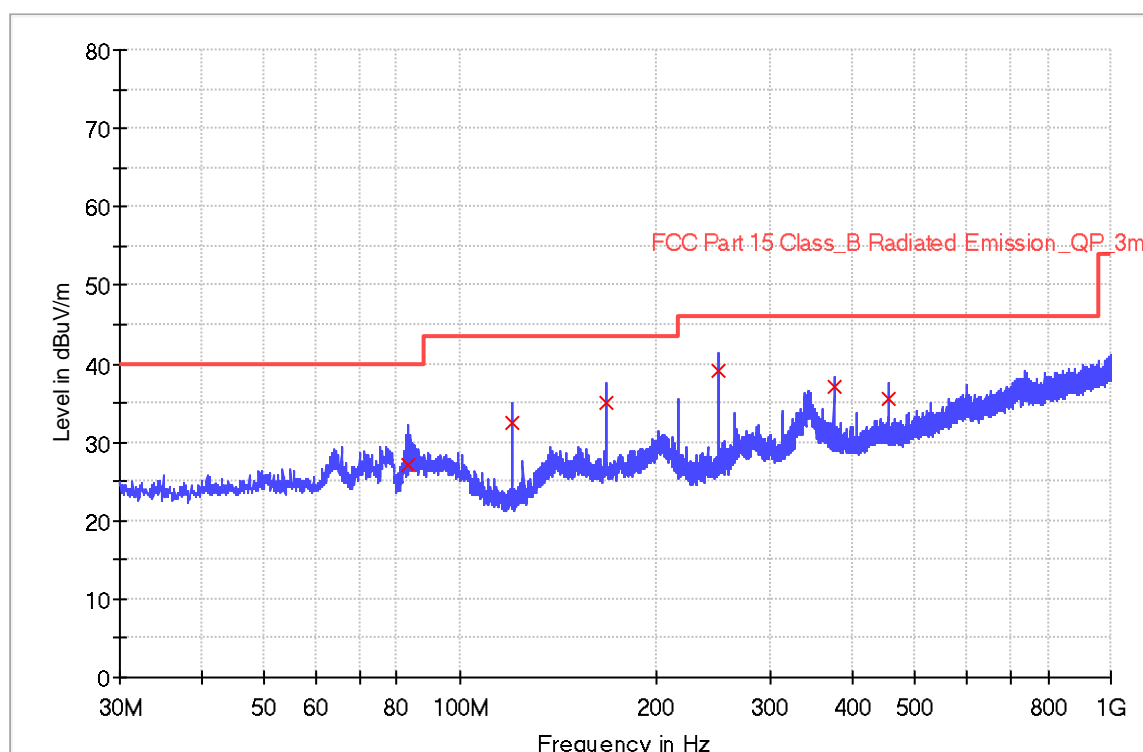
EUT Name: Access modem
Model: InCoax Access A2512 AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.8, H52.7%, P101.6kPa
Operator: Guo Chengjie
Test Spec: FCC Part 15B Class B
Comment: Horizontal
Sample No: SHA-681292-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168
Receiver: [ESR 3]
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 (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
83.360000	27.2	1000.0	120.000	200.0	H	34.0	15.1	12.8	40.0
119.960000	32.4	1000.0	120.000	200.0	H	115.0	18.1	11.1	43.5
168.000000	35.0	1000.0	120.000	200.0	H	344.0	20.4	8.6	43.5
250.000000	39.1	1000.0	120.000	200.0	H	23.0	19.9	6.9	46.0
375.000000	37.0	1000.0	120.000	200.0	H	167.0	23.6	9.0	46.0
455.960000	35.5	1000.0	120.000	200.0	H	175.0	25.9	10.5	46.0



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30-1000MHz Radiated Emission

EUT Information

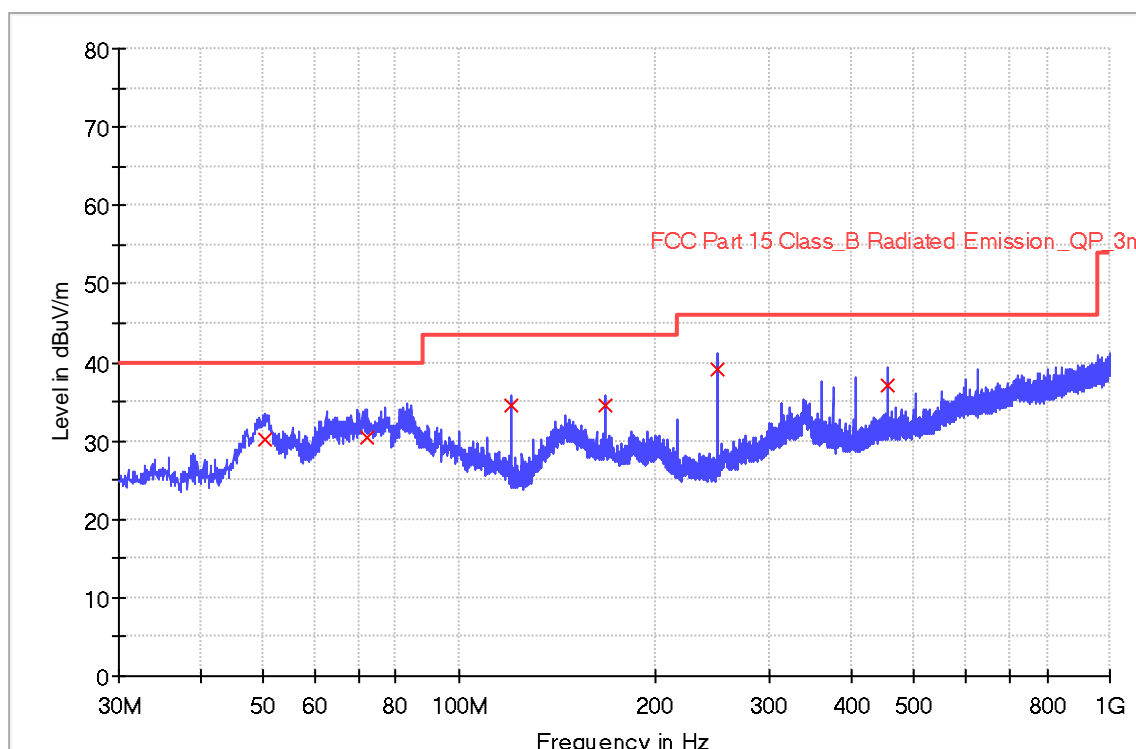
EUT Name: Access modem
Model: InCoax Access A2512 RPF AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.8, H52.7%, P101.6kPa
Operator: Guo Chengjie
Test Spec: FCC Part 15B Class B
Comment: Vertical
Sample No: SHA-681292-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168
Receiver: [ESR 3]
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 (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
50.160000	30.3	1000.0	120.000	100.0	V	142.0	20.5	9.7	40.0
71.960000	30.5	1000.0	120.000	100.0	V	101.0	18.2	9.5	40.0
119.960000	34.4	1000.0	120.000	100.0	V	238.0	18.1	9.1	43.5
168.000000	34.5	1000.0	120.000	100.0	V	0.0	20.4	9.0	43.5
250.000000	39.2	1000.0	120.000	100.0	V	359.0	19.9	6.8	46.0
455.960000	37.0	1000.0	120.000	100.0	V	0.0	25.9	9.0	46.0



China

30-1000MHz Radiated Emission

EUT Information

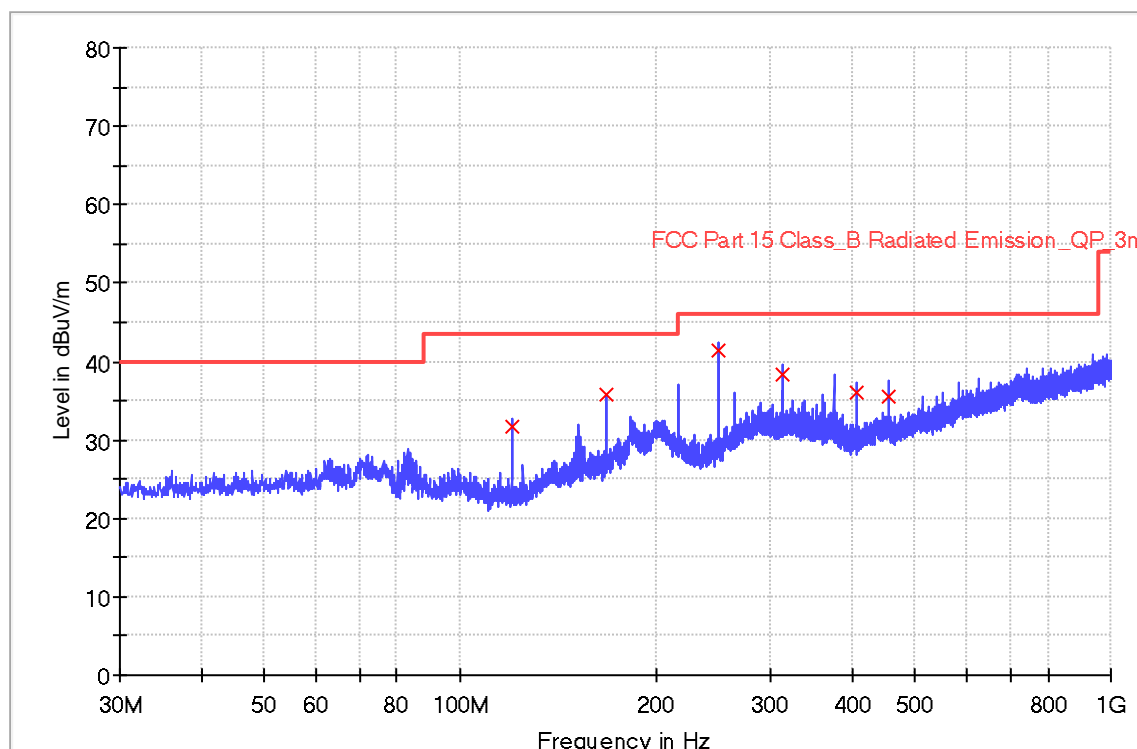
EUT Name: Access modem
Model: InCoax Access A2512 RPF AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.8, H52.7%, P101.6kPa
Operator: Guo Chengjie
Test Spec: FCC Part 15B Class B
Comment: Horizontal
Sample No: SHA-681292-2

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168
Receiver: [ESR 3]
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 (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
119.960000	31.7	1000.0	120.000	201.0	H	124.0	18.1	11.9	43.5
168.000000	35.8	1000.0	120.000	200.0	H	1.0	20.4	7.8	43.5
250.000000	41.3	1000.0	120.000	201.0	H	190.0	19.9	4.7	46.0
311.960000	38.3	1000.0	120.000	200.0	H	1.0	21.9	7.7	46.0
407.960000	36.1	1000.0	120.000	200.0	H	234.0	24.2	9.9	46.0
455.960000	35.6	1000.0	120.000	200.0	H	43.0	25.9	10.4	46.0



China

30-1000MHz Radiated Emission

EUT Information

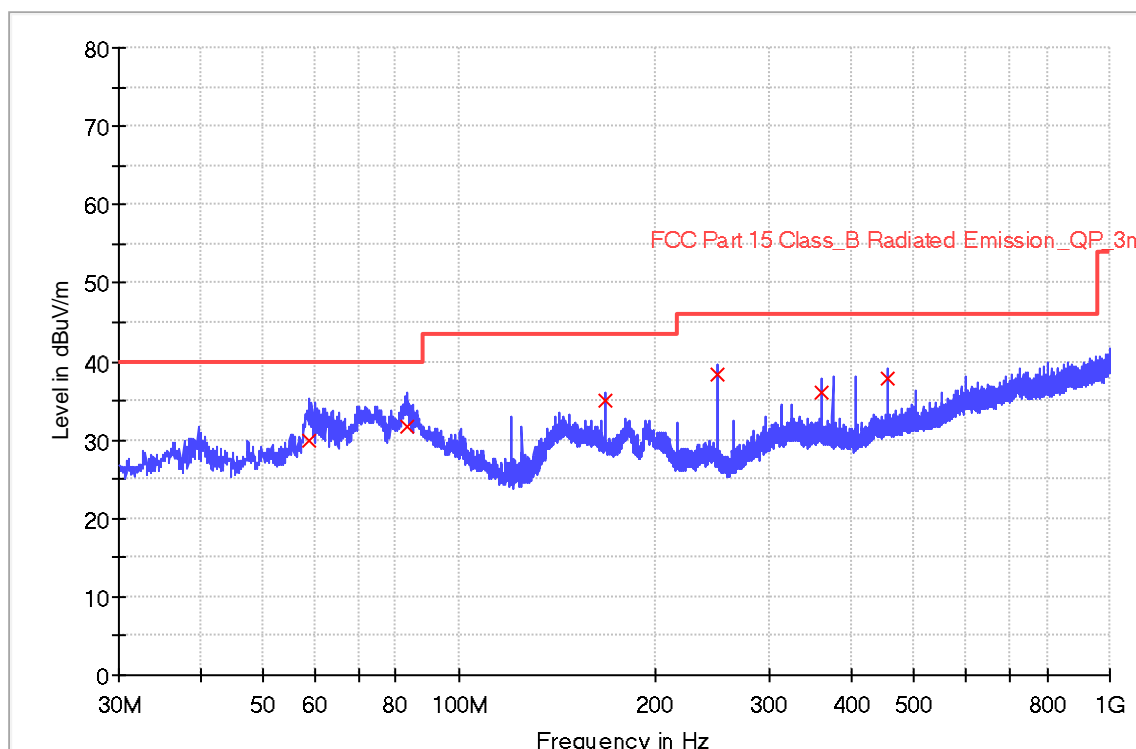
EUT Name: Access modem
Model: InCoax Access A2512 RPF AD ER
Client: Incoax Networks AB
Op Cond: Power on, AC 120V/50Hz, T21.8, H52.7%, P101.6kPa
Operator: Guo Chengjie
Test Spec: FCC Part 15B Class B
Comment: Vertical
Sample No: SHA-681292-2

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168
Receiver: [ESR 3]
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 (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
58.760000	30.0	1000.0	120.000	100.0	V	244.0	20.3	10.0	40.0
83.200000	31.8	1000.0	120.000	100.0	V	190.0	15.1	8.2	40.0
168.000000	35.0	1000.0	120.000	100.0	V	117.0	20.4	8.5	43.5
250.000000	38.4	1000.0	120.000	100.0	V	0.0	19.9	7.7	46.0
360.000000	36.1	1000.0	120.000	100.0	V	359.0	23.0	9.9	46.0
455.960000	38.0	1000.0	120.000	100.0	V	53.0	25.9	8.1	46.0

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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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, 3.16dB
Radiated Disturbance	30MHz to 1GHz, 5.03dB (Horizontal)
	5.12dB (Vertical)
	1GHz to 18GHz, 5.49dB
	18GHz to 40GHz, 5.63dB

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.



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8 EUT Photograph

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----