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**FCC PART 15B / RSS-215
 SCANNING RECEIVER TEST REPORT**

Applicant	UNIDEN AMERICA CORPORATION
Address	6225 N. State High 161 Suite 300 Irving, TX 75038
FCC ID:	AMWUB372D
IC	513C-UB372D
Model Number	UB385A, UB372D
Product Description	SCANNING RECEIVER
Date Sample Received	11/6/2019
Final Test Date	11/11/2019
Tested By	Tim Royer
Test Results	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Report Number	Version Number	Description	Issue Date
3002AUT19TestReport	Rev1	Initial Issue	11/11/2019

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



TABLE OF CONTENTS

GENERAL REMARKS 4

GENERAL INFORMATION 5

REPORT SUMMARY 6

RESULTS SUMMARY 6

RADIATED SPURIOUS EMISSIONS 7

SCANNING RECEIVER FUNCTION 9

 TEST DATA: 30-200MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 9

 TEST DATA: 30-200MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 10

 TEST DATA: 30-200MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 11

 TEST DATA: 30-200MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 12

 TEST DATA: 200-1000MHZ FIELD STRENGTH PLOT, HORIZON POLARITY 13

 TEST DATA: 200-1000MHZ FIELD STRENGTH TABLE, HORIZON POLARITY 14

 TEST DATA: 200-1000MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 15

 TEST DATA: 200-1000MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 16

 TEST DATA: 1-12.5GHZ FIELD STRENGTH PLOT, HORIZON POLARITY 17

 TEST DATA: 1-12.5GHZ FIELD STRENGTH TABLE, HORIZON POLARITY 18

 TEST DATA: 1-12.5GHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 19

 TEST DATA: 1-12.5GHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 20

SCANNED 30 MHZ TO 200 MHZ 21

 TEST DATA: 25 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 21

 TEST DATA: 25 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 22

 TEST DATA: 25 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 23

 TEST DATA: 25 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 24

 TEST DATA: 54 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 25

 TEST DATA: 54 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 26

 TEST DATA: 54 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 27

 TEST DATA: 54 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 28

 TEST DATA: 108 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 29

 TEST DATA: 108 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 30

 TEST DATA: 108 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 31

 TEST DATA: 174 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 32

 TEST DATA: 174 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 33

 TEST DATA: 174 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 34

 TEST DATA: 174 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 35

 TEST DATA: 406 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 36

 TEST DATA: 406 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 37

 TEST DATA: 406 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 38

 TEST DATA: 512 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 39

 TEST DATA: 512 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 40

 TEST DATA: 512 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 41

 TEST DATA: 512 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 42

SCANNED 200 MHZ TO 1 GHZ 43

 TEST DATA: 25 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 43

 TEST DATA: 25 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 44

 TEST DATA: 25 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 45

 TEST DATA: 25 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY 46

Applicant: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUB372D
 IC: 513C-UB372D
 Report: 3002AUT19TestReport_Rev1



TEST DATA: 54 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 47
TEST DATA: 54 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY..... 48
TEST DATA: 54 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 49
TEST DATA: 54 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 50
TEST DATA: 108 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 51
TEST DATA: 108 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 52
TEST DATA: 108 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 53
TEST DATA: 108 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 54
TEST DATA: 174 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 55
TEST DATA: 174 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 56
TEST DATA: 174 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 57
TEST DATA: 174 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 58
TEST DATA: 406 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 59
TEST DATA: 406 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY..... 60
TEST DATA: 406 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 61
TEST DATA: 406 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 62
TEST DATA: 512 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 63
TEST DATA: 512 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY..... 64
TEST DATA: 512 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 65
TEST DATA: 512 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 66

SCANNED 1 GHZ TO 12.5 GHZ..... 67

TEST DATA: 108 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 67
TEST DATA: 108 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 68
TEST DATA: 108 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 69
TEST DATA: 108 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 70
TEST DATA: 174 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 71
TEST DATA: 174 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 72
TEST DATA: 174 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 73
TEST DATA: 174 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 74
TEST DATA: 406 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 75
TEST DATA: 406 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 76
TEST DATA: 406 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 77
TEST DATA: 406 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 78
TEST DATA: 512 MHZ FIELD STRENGTH PLOT, HORIZONTAL POLARITY 79
TEST DATA: 512 MHZ FIELD STRENGTH TABLE, HORIZONTAL POLARITY 80
TEST DATA: 512 MHZ FIELD STRENGTH PLOT, VERTICAL POLARITY 81
TEST DATA: 512 MHZ FIELD STRENGTH TABLE, VERTICAL POLARITY..... 82

ANTENNA CONDUCTED POWER 83

POWER LINE CONDUCTED INTERFERENCE 84

TEST EQUIPMENT LIST 85

GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

Summary

The device under test does:

- Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669

Tested by:



Name and Title	Tim Royer, Project Manager / EMC Testing Engineer
Date	11/11/2019

GENERAL INFORMATION

EUT Description	SCANNING RECEIVER
FCC ID	AMWUB372D
IC	513C-UB372D
Model Number	UB385A, UB372D
Range	0.1 – 512 MHz
Receiver Circuit Type	Superheterodyne
Lowest Internal Frequency	> 9 kHz
Antenna Connector	BNC
EUT Power Source	<input type="checkbox"/> 110–120Vac/50– 60Hz
	<input type="checkbox"/> 13.8 VDC Nominal (Optional)
	<input checked="" type="checkbox"/> Battery Operated Exclusively
Test Item	<input type="checkbox"/> Prototype
	<input checked="" type="checkbox"/> Pre-Production
	<input type="checkbox"/> Production
Modifications required for Testing	None
Test Site	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #US1070 ISED CAB #US0111 ISED Test Site #2056A

Applicant: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUB372D
 IC: 513C-UB372D
 Report: 3002AUT19TestReport_Rev1

REPORT SUMMARY

Regulatory Standard	CFR Title 47 FCC Rule part 15B § 15.109, 15.111, & 15.121, RSS-215 Issue 2, RSS-GEN Issue 4
Test Procedures	FCC Part 15.31, 15.33, 15.35 ANSI C63.4 – 2014
Operational Modes	Stopped at the Lowest, middle, and highest frequency of each frequency range. In addition, scanning all frequencies of tuning range.
Test Frequencies	25, 54, 108, 174, 406, 512MHz Scan: 25 MHz to 512 MHz
Environmental Condition in the laboratory	Temperature: 24-26°C Relative humidity: 50-65% Barometric Pressure: 1021 mb
Deviation from the standard/procedure	No deviation

RESULTS SUMMARY

Test Item	FCC Rule Part	RSS Specification	Result
Radiated Spurious Emissions	15.109	215 sec 5.1, GEN sec 7.1	Pass
15.111 Receiver Conducted Power	15.111(a)		N/A ⁽¹⁾
15.121 38 dB Rejection	15.121		N/A ⁽²⁾
Powerline Conducted Emissions	15.107	215, sec 5.1, GEN sec 8.8	N/A ⁽¹⁾

Notes:

- 1) EUT is not intended for connection with AC Mains.
- 2) Manufacturer provided attestation letter, no test required.

RADIATED SPURIOUS EMISSIONS

Rule Part No.: FCC Part 15 Subpart B, RSS-215 sec 5.1

Requirements: FCC Part 15.109(a), RSS GEN 7.1.2 Radiated Emission Limit

Class B Field Strength Limits @ 3 Meters	
Frequency (MHz)	Level (dBuV/m)
30 – 88	40.0
80 – 216	43.5
216 – 960	46.0
Above 960	54.0

FCC Part 15.109(f) Radiated Emission Limit

For a receiver which employs terminals for the connection of an external receiving antenna, the receiver shall be tested to demonstrate compliance with the provisions of this section with an antenna connected to the antenna terminals unless the antenna conducted power is measured as specified in §15.111(a).

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements

FCC Part 15.35(a) Measurement detector functions and bandwidths

ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 6.2 Operating conditions

§ 6.3 Arrangement of EUT

§ 8.3.1 Exploratory radiated emissions measurements

§ 8.3.2 Final radiated emission measurements

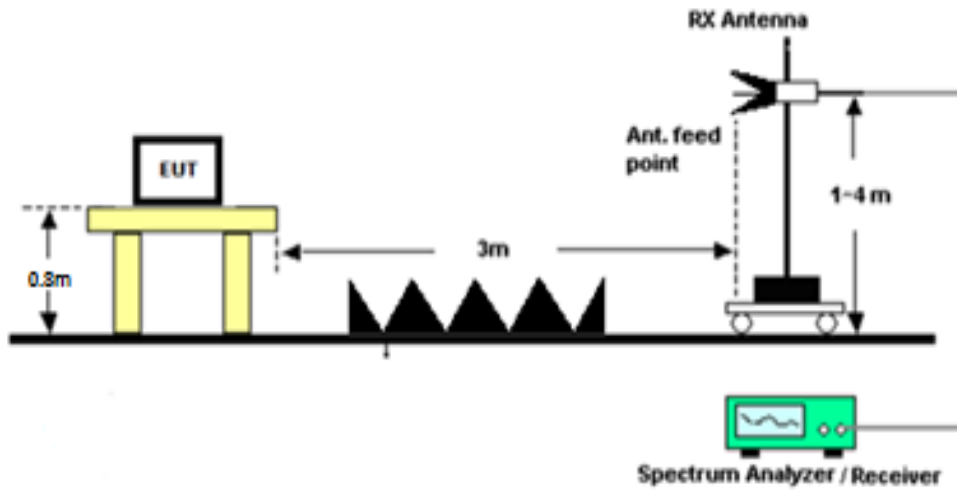
Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped, all while the antenna terminals are terminated into a non-radiating 50 Ω load.

RADIATED SPURIOUS EMISSIONS

Setup:

Emissions 30 – 1000 MHz

Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

Scanning Receiver Function

Test Data: 30-200MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 12:17

Test Spec: CISPR 22 Radiated Disturbances

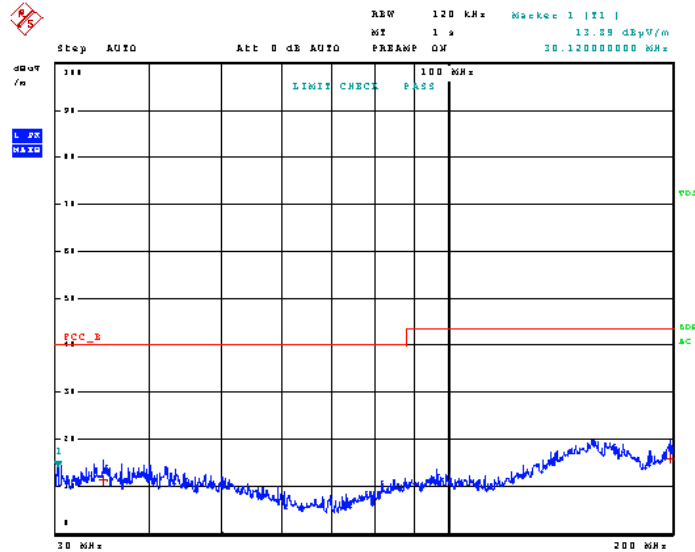
Polarity: Vertical

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 30-200MHz Field Strength Table, Horizontal Polarity

11.Nov 19 12:17

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	34.64000000 MHz	11.34	Quasi Peak	-28.66
1	198.48000000 MHz	15.95	Quasi Peak	-27.55

RADIATED SPURIOUS EMISSIONS

Test Data: 30-200MHz Field Strength Plot, Vertical Polarity



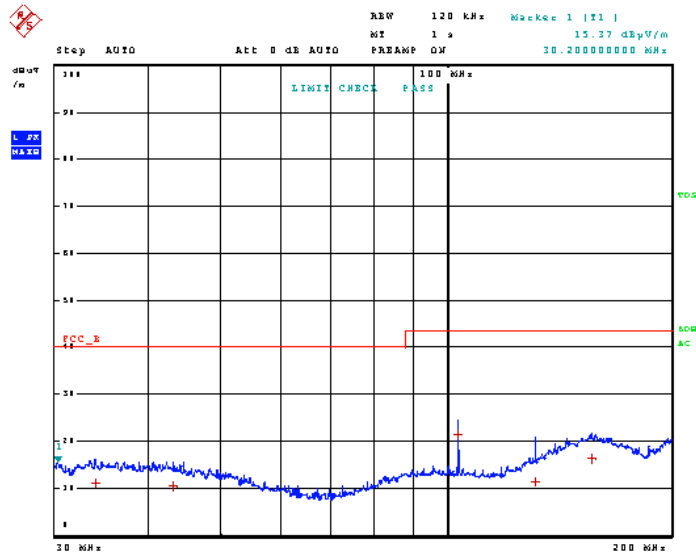
11.Nov 19 12:13

Test Spec CISPR 22 Radiated Disturbances
 Polarity Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 30-200MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:13

Test Spec CISPR 22 Radiated Disturbances
Polarity Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 5

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	33.960000000 MHz	11.12	Quasi Peak	-28.88
1	43.000000000 MHz	10.36	Quasi Peak	-29.64
1	103.640000000 MHz	21.45	Quasi Peak	-22.05
1	131.400000000 MHz	11.52	Quasi Peak	-31.98
1	156.160000000 MHz	16.35	Quasi Peak	-27.15

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Plot, Horizon Polarity



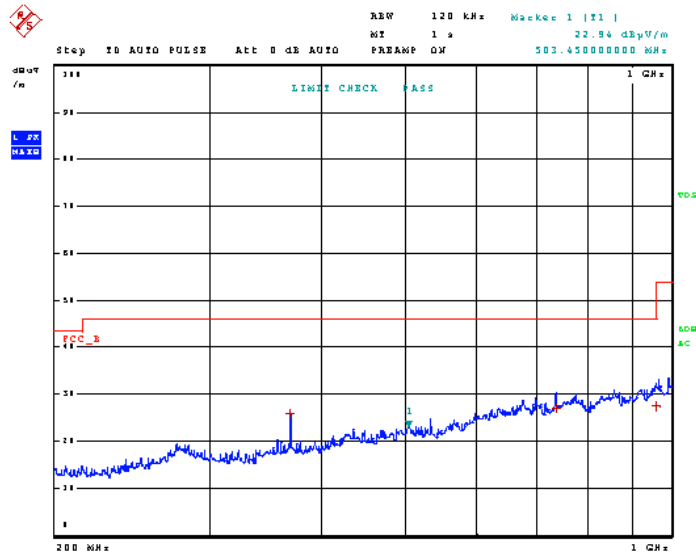
11.Nov 19 12:11

Test Spec CISPR 22 Radiated Disturbances
Polarity
 Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Table, Horizon Polarity

11.Nov 19 12:11

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	25.95	Quasi Peak	-20.05
1	739.910000000 MHz	27.02	Quasi Peak	-18.98
1	959.960000000 MHz	27.47	Quasi Peak	-18.53

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 14 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Plot, Vertical Polarity



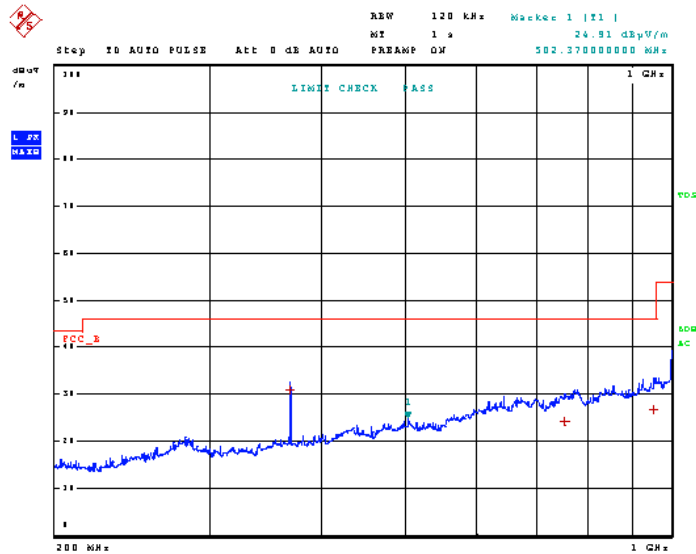
11.Nov 19 12:09

Test Spec CISPR 22 Radiated Disturbances
Polarity
 Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 200-1000MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:09

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	30.95	Quasi Peak	-15.05
1	756.020000000 MHz	24.25	Quasi Peak	-21.75
1	954.080000000 MHz	26.87	Quasi Peak	-19.13

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 16 of 85

RADIATED SPURIOUS EMISSIONS

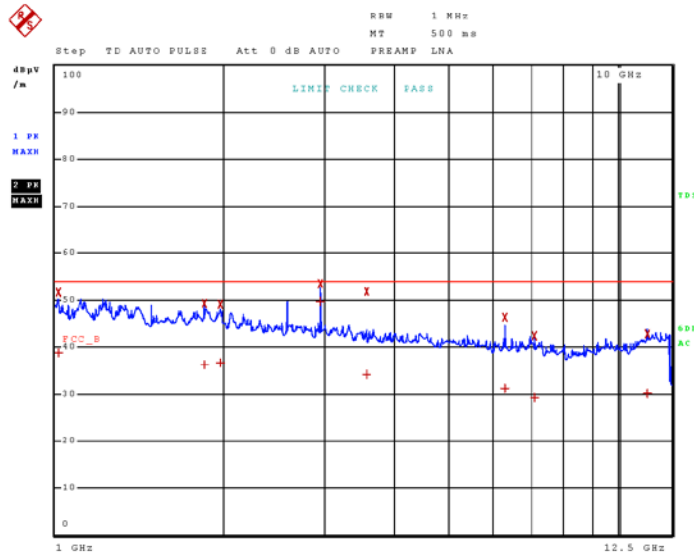
Test Data: 1-12.5GHz Field Strength Plot, Horizon Polarity

08.Nov 19 18:04

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 1-12.5GHz Field Strength Table, Horizon Polarity

08.Nov 19 18:04

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.010500000 GHz	38.68	CISPR Averag	-15.32
2	1.010500000 GHz	51.49	Max Peak	
1	1.844750000 GHz	36.33	CISPR Averag	-17.67
2	1.844750000 GHz	49.31	Max Peak	
1	1.969000000 GHz	36.70	CISPR Averag	-17.30
2	1.969000000 GHz	49.14	Max Peak	
1	2.959500000 GHz	49.68	CISPR Averag	-4.32
2	2.959500000 GHz	53.47	Max Peak	
1	3.571250000 GHz	34.24	CISPR Averag	-19.76
2	3.571250000 GHz	51.88	Max Peak	
1	6.301000000 GHz	31.27	CISPR Averag	-22.73
2	6.301000000 GHz	46.27	Max Peak	
1	7.133750000 GHz	29.33	CISPR Averag	-24.67
2	7.133750000 GHz	42.33	Max Peak	
1	11.283750000 GHz	30.18	CISPR Averag	-23.82
2	11.283750000 GHz	42.67	Max Peak	

RADIATED SPURIOUS EMISSIONS

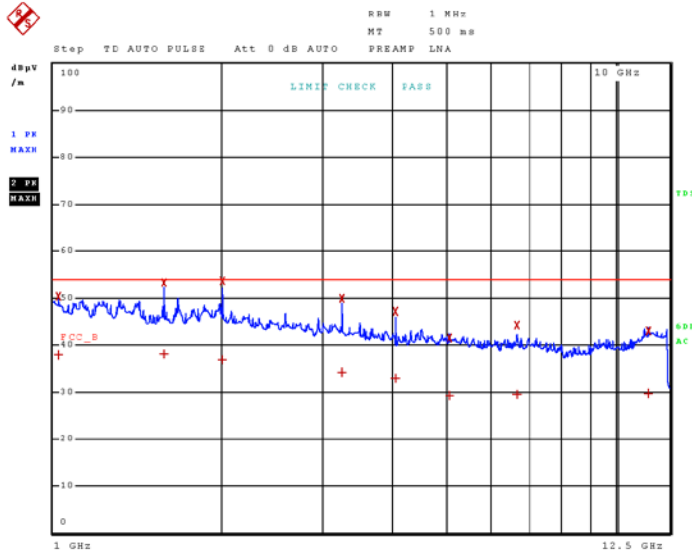
Test Data: 1-12.5GHz Field Strength Plot, Vertical Polarity

08.Nov 19 18:05

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μs	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 1-12.5GHz Field Strength Table, Vertical Polarity

08.Nov 19 18:05

Final Measurement

Meas Time: 500 ms
 Margin: 40 dB
 Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.021750000 GHz	38.01	CISPR Averag	-15.99
2	1.021750000 GHz	50.41	Max Peak	
1	1.575250000 GHz	38.21	CISPR Averag	-15.79
2	1.575250000 GHz	53.30	Max Peak	
1	1.998250000 GHz	36.93	CISPR Averag	-17.07
2	1.998250000 GHz	53.78	Max Peak	
1	3.256500000 GHz	34.09	CISPR Averag	-19.91
2	3.256500000 GHz	49.96	Max Peak	
1	4.057500000 GHz	32.85	CISPR Averag	-21.15
2	4.057500000 GHz	47.18	Max Peak	
1	5.069500000 GHz	29.27	CISPR Averag	-24.73
2	5.069500000 GHz	41.40	Max Peak	
1	6.672000000 GHz	29.58	CISPR Averag	-24.42
2	6.672000000 GHz	44.15	Max Peak	
1	11.447750000 GHz	29.66	CISPR Averag	-24.34
2	11.447750000 GHz	42.94	Max Peak	

RADIATED SPURIOUS EMISSIONS

Scanned 30 MHz to 200 MHz

Test Data: 25 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 12:29

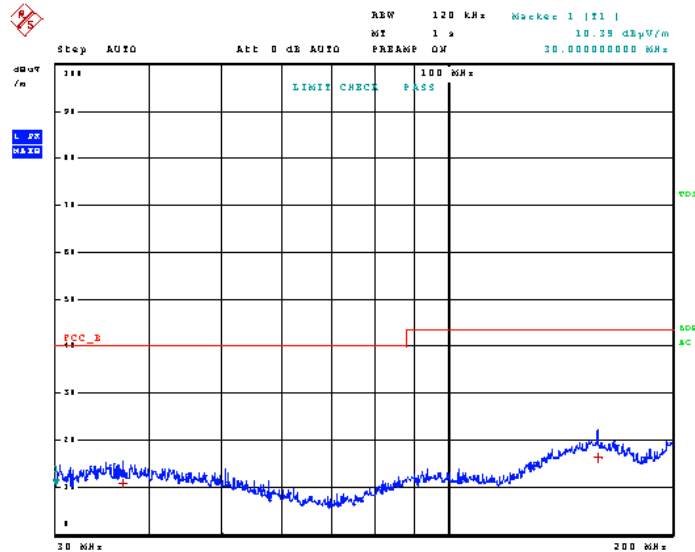
Test Spec: CISPR 22 Radiated Disturbances

Polarity: Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 12:29

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	36.84000000 MHz	10.88	Quasi Peak	-29.12
1	158.52000000 MHz	16.19	Quasi Peak	-27.31

Page 2 of 2

RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:28

Test Spec CISPR 22 Radiated Disturbances

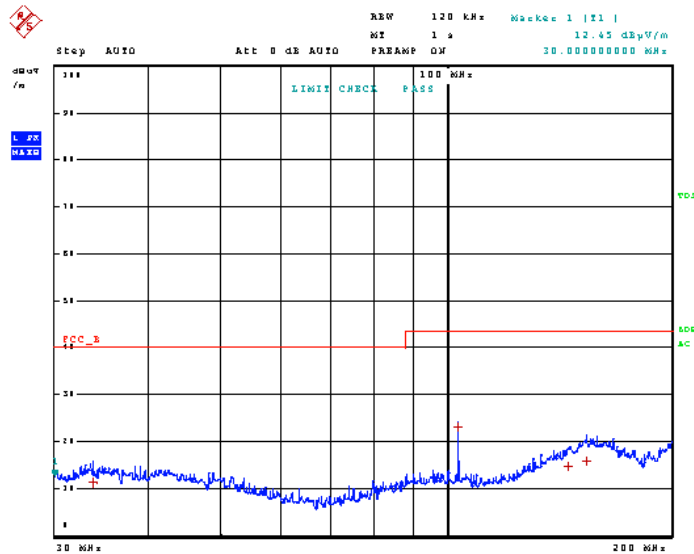
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:28

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	33.68000000 MHz	11.22	Quasi Peak	-28.78
1	103.72000000 MHz	23.11	Quasi Peak	-20.39
1	145.12000000 MHz	14.78	Quasi Peak	-28.72
1	153.72000000 MHz	15.95	Quasi Peak	-27.55

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 24 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 12:27

Test Spec CISPR 22 Radiated Disturbances

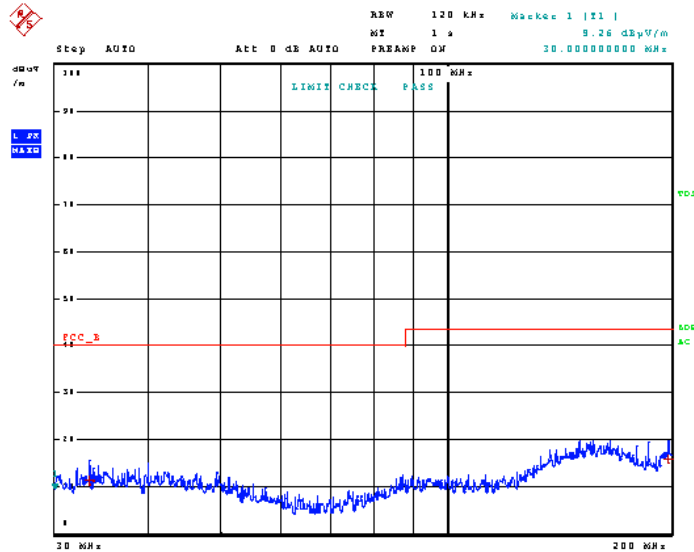
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 12:27

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	33.36000000 MHz	11.33	Quasi Peak	-28.67
1	198.16000000 MHz	15.90	Quasi Peak	-27.60

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:27

Test Spec CISPR 22 Radiated Disturbances

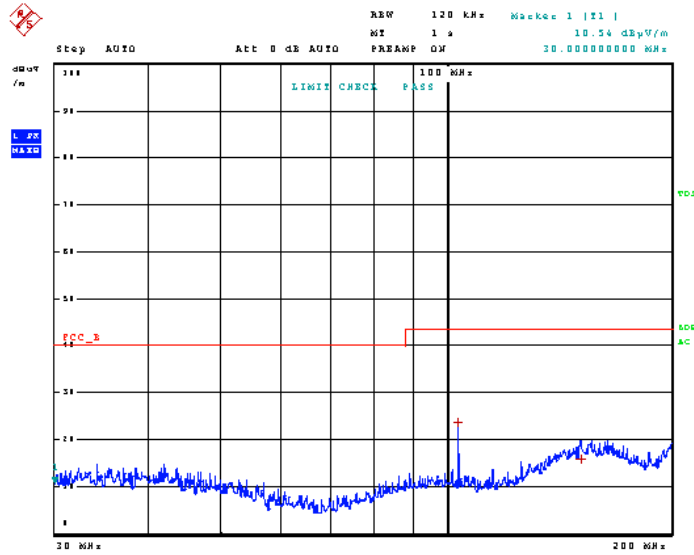
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:27

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	103.640000000 MHz	23.69	Quasi Peak	-19.81
1	151.360000000 MHz	15.90	Quasi Peak	-27.60

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 28 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 12:26

Test Spec CISPR 22 Radiated Disturbances

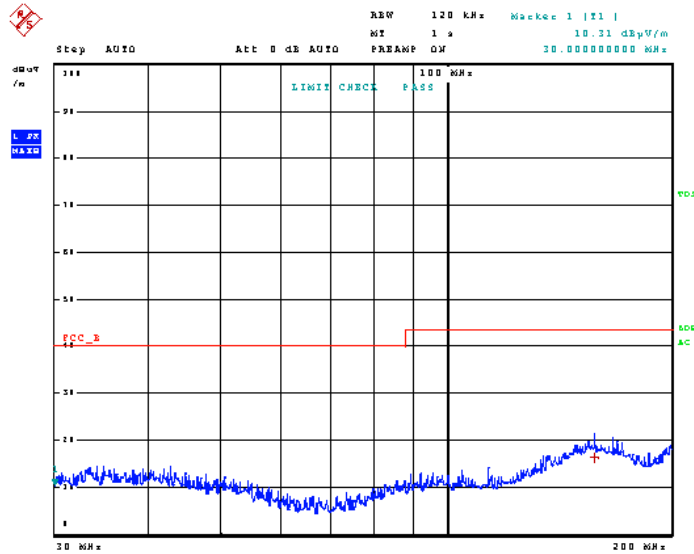
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Final Measurement

Meas Time: 1 s
 Margin: 25 dB
 Subranges: 1

Trace	Frequency	Level (dBuV/m)	Detector	Delta Limit/dB
1	157.76000000 MHz	16.27	Quasi Peak	-27.23

RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:25

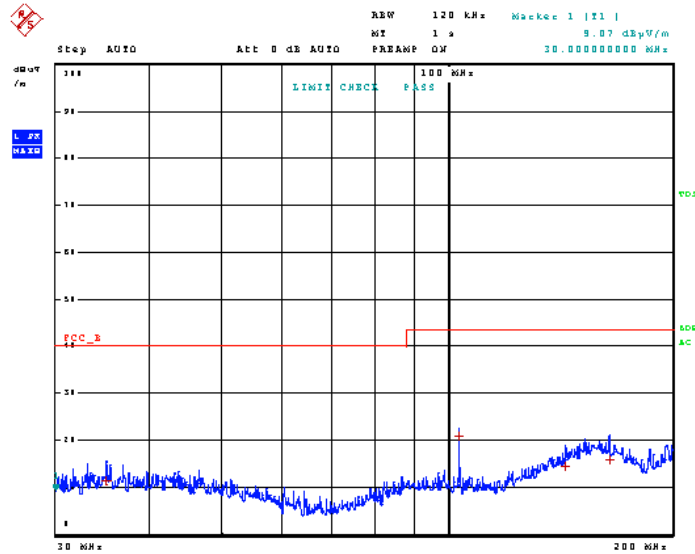
Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μs	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:25

Test Spec CISPR 22 Radiated Disturbances
 Polarity Vertical

Final Measurement

Meas Time: 1 s
 Margin: 25 dB
 Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	34.960000000 MHz	11.48	Quasi Peak	-28.52
1	103.720000000 MHz	20.84	Quasi Peak	-22.66
1	143.560000000 MHz	14.38	Quasi Peak	-29.12
1	164.480000000 MHz	15.08	Quasi Peak	-27.62

RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 12:21

Test Spec CISPR 22 Radiated Disturbances

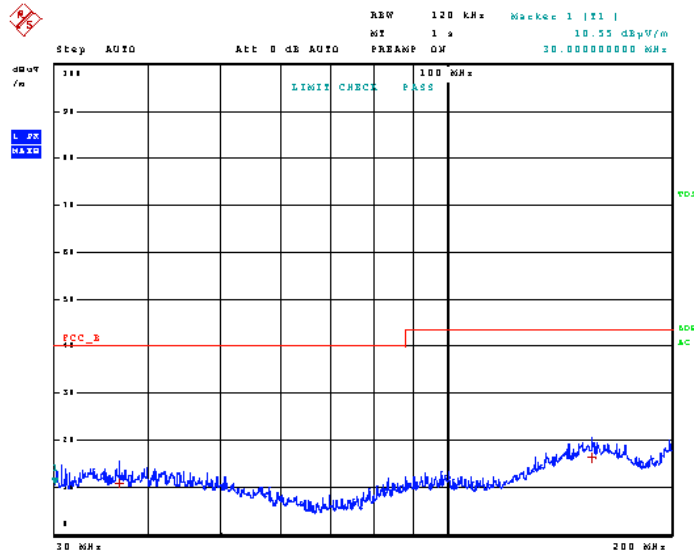
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 12:21

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	36.560000000 MHz	10.84	Quasi Peak	-29.16
1	156.080000000 MHz	16.33	Quasi Peak	-27.17

RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:22

Test Spec CISPR 22 Radiated Disturbances

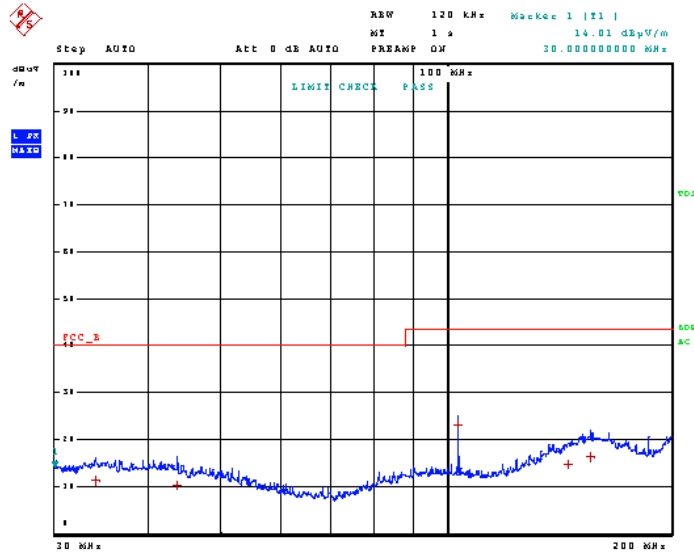
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:22

Test Spec CISPR 22 Radiated Disturbances
 Polarity
 Vertical

Final Measurement

Meas Time: 1 s
 Margin: 25 dB
 Subranges: 5

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	33.960000000 MHz	11.17	Quasi Peak	-28.83
1	43.560000000 MHz	10.21	Quasi Peak	-29.79
1	103.680000000 MHz	23.26	Quasi Peak	-20.24
1	145.360000000 MHz	14.04	Quasi Peak	-28.66
1	155.800000000 MHz	16.33	Quasi Peak	-27.17

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Horizontal Polarity



11.Nov.19 12:18

Test Spec CISPR 22 Radiated Disturbances

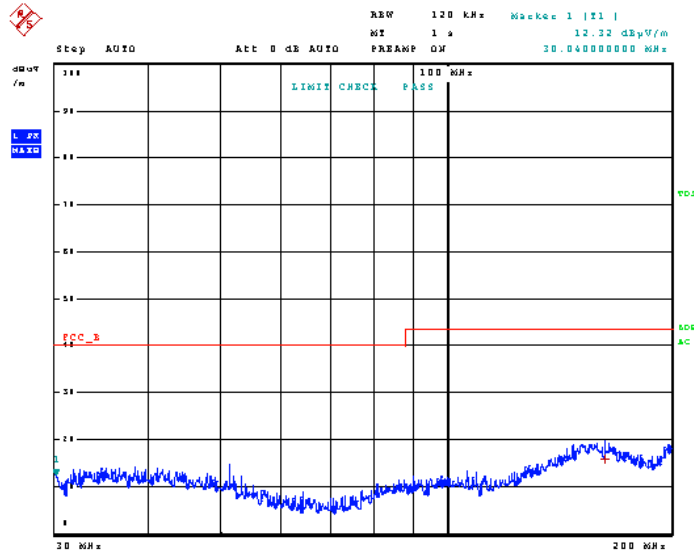
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Final Measurement

Meas Time: 1 s
 Margin: 25 dB
 Subranges: 1

Trace	Frequency	Level (dBuV/m)	Detector	Delta Limit/dB
1	162.72000000 MHz	15.84	Quasi Peak	-27.66

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:18

Test Spec CISPR 22 Radiated Disturbances

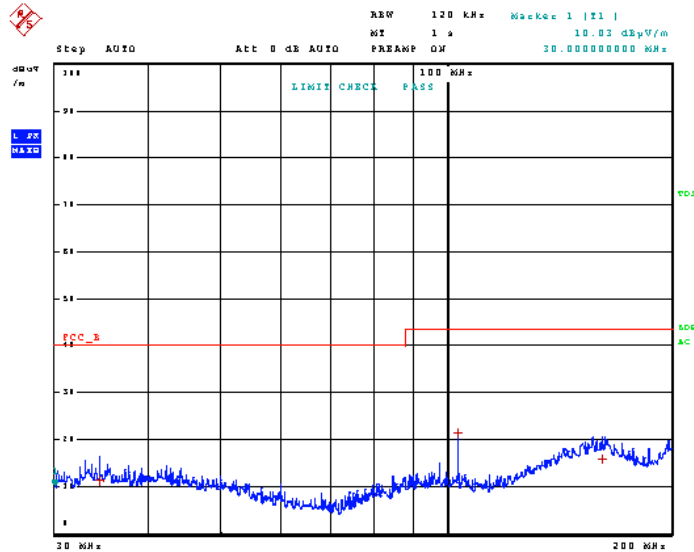
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



Page 1 of 2

Applicant: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUB372D
 IC: 513C-UB372D
 Report: 3002AUT19TestReport_Rev1



RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:18

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	34.36000000 MHz	11.19	Quasi Peak	-28.81
1	103.72000000 MHz	21.42	Quasi Peak	-22.08
1	161.56000000 MHz	15.85	Quasi Peak	-27.65

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 12:20

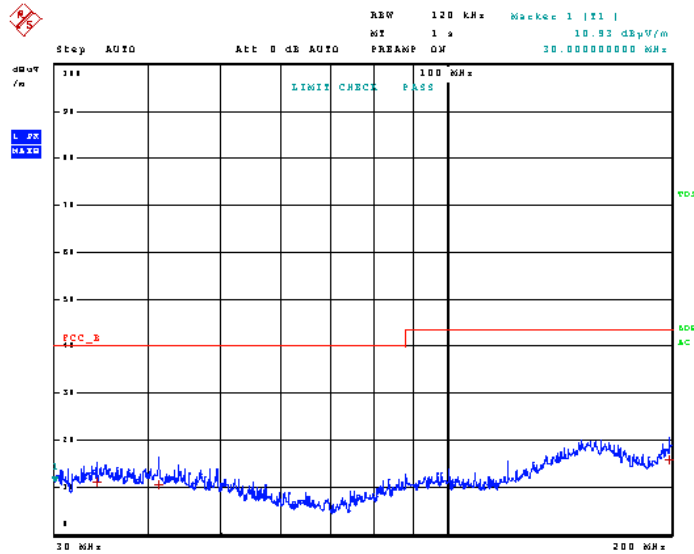
Test Spec CISPR 22 Radiated Disturbances

Polarity
Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 12:20

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	34.000000000 MHz	11.10	Quasi Peak	-28.90
1	41.200000000 MHz	10.51	Quasi Peak	-29.49
1	198.800000000 MHz	15.92	Quasi Peak	-27.58

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:19

Test Spec CISPR 22 Radiated Disturbances

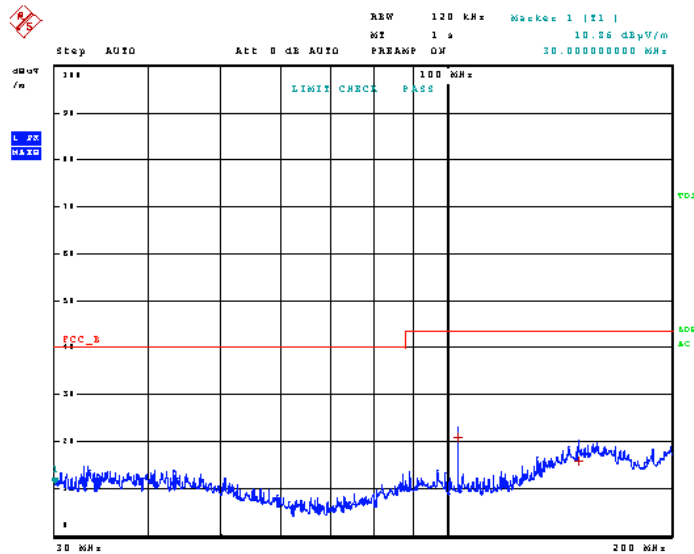
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
 Scan Stop: 200 MHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:19

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	103.76000000 MHz	20.99	Quasi Peak	-22.51
1	150.16000000 MHz	15.89	Quasi Peak	-27.61

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 42 of 85

RADIATED SPURIOUS EMISSIONS

Scanned 200 MHz to 1 GHz

Test Data: 25 MHz Field Strength Plot, Horizontal Polarity



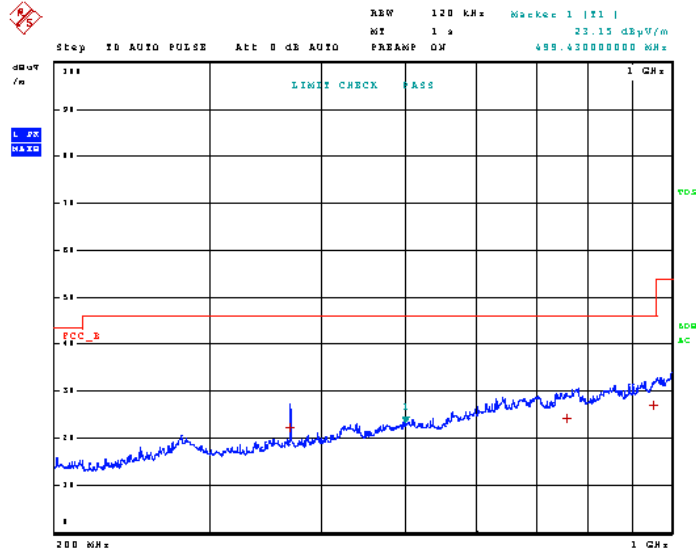
11.Nov 19 10:45

Test Spec CISPR 22 Radiated Disturbances
Polarity
 Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 12:29

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	36.84000000 MHz	10.88	Quasi Peak	-29.12
1	158.52000000 MHz	16.19	Quasi Peak	-27.31

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 44 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 10:47

Test Spec CISPR 22 Radiated Disturbances

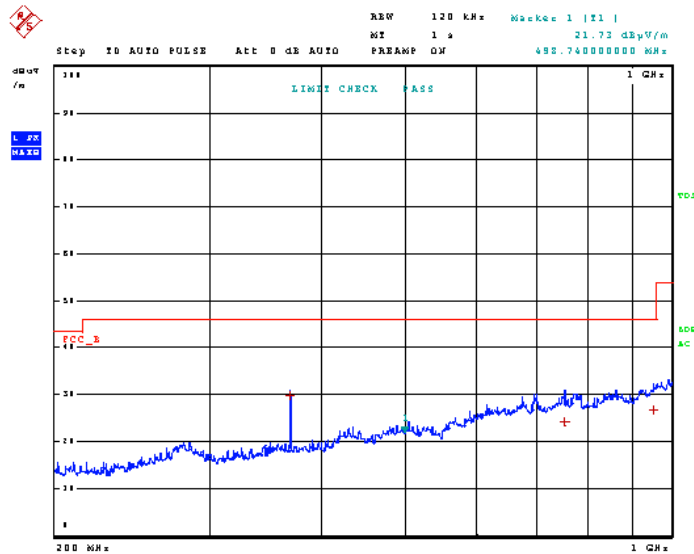
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 25 MHz Field Strength Table, Vertical Polarity

11.Nov 19 10:47

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	29.77	Quasi Peak	-16.23
1	756.110000000 MHz	24.27	Quasi Peak	-21.73
1	953.540000000 MHz	26.85	Quasi Peak	-19.15

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 10:49

Test Spec CISPR 22 Radiated Disturbances

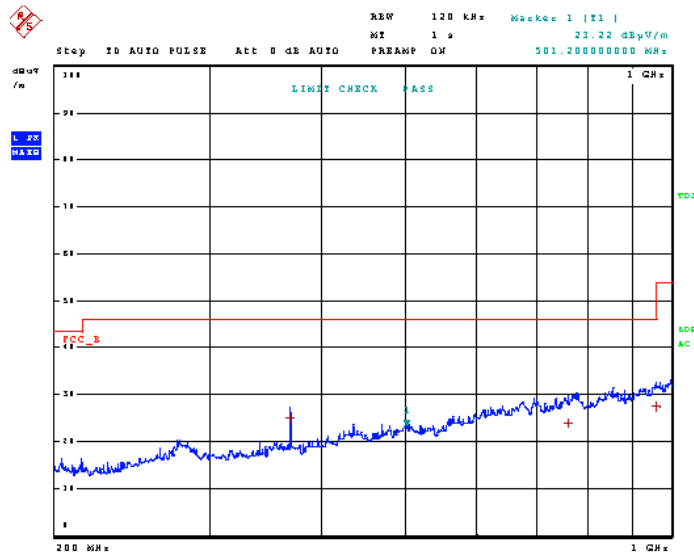
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 10:49

Test Spec CISPR 22 Radiated Disturbances
Polarity Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	25.18	Quasi Peak	-20.82
1	761.780000000 MHz	24.12	Quasi Peak	-21.88
1	959.540000000 MHz	27.44	Quasi Peak	-18.56

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 48 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 10:48

Test Spec CISPR 22 Radiated Disturbances

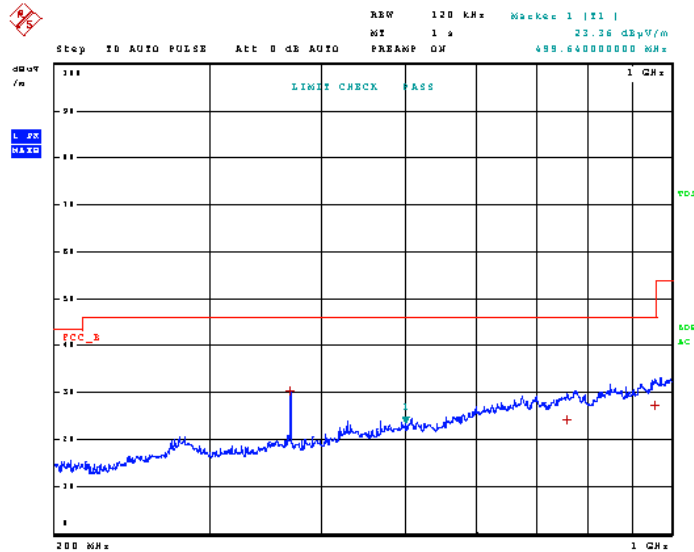
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 54 MHz Field Strength Table, Vertical Polarity

11.Nov 19 10:48

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	30.37	Quasi Peak	-15.63
1	761.300000000 MHz	24.18	Quasi Peak	-21.82
1	957.290000000 MHz	27.17	Quasi Peak	-18.83

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 50 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 11:03

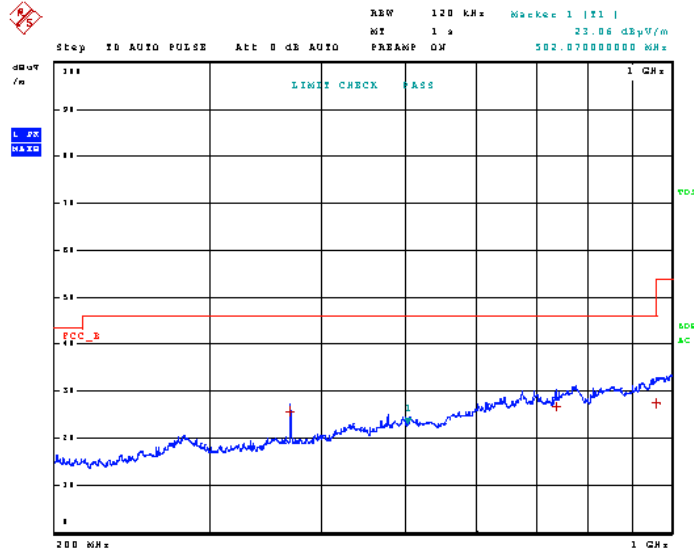
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 11:03

Test Spec CISPR 22 Radiated Disturbances
Polarity Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	25.70	Quasi Peak	-20.30
1	739.910000000 MHz	26.81	Quasi Peak	-19.19
1	959.900000000 MHz	27.49	Quasi Peak	-18.51

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 52 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 11:11

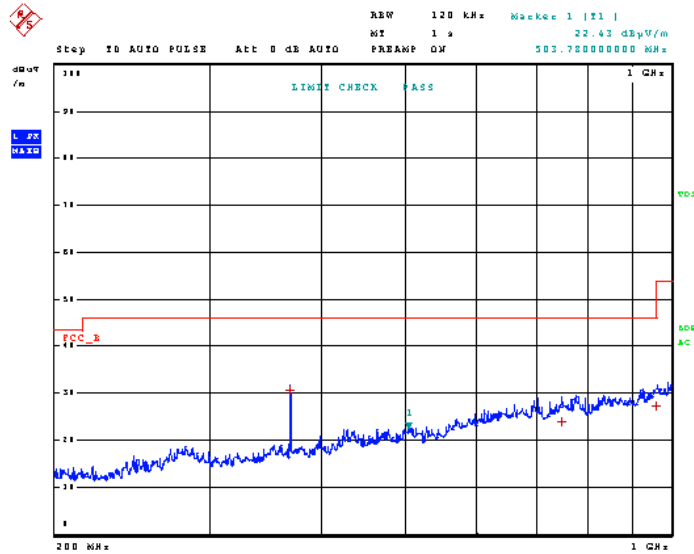
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Vertical Polarity

11.Nov 19 11:11

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	30.54	Quasi Peak	-15.46
1	751.010000000 MHz	23.95	Quasi Peak	-22.05
1	958.940000000 MHz	27.29	Quasi Peak	-18.71

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 54 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 11:19

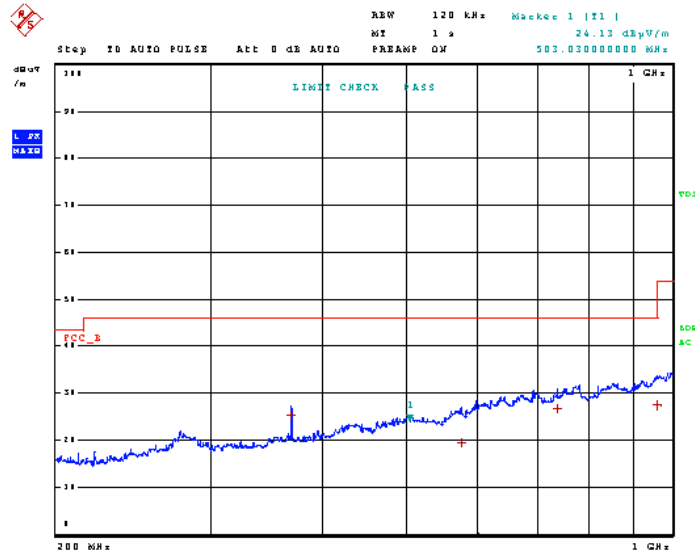
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 11:19

Test Spec CISPR 22 Radiated Disturbances
Polarity Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	25.34	Quasi Peak	-20.66
1	575.810000000 MHz	19.47	Quasi Peak	-26.53
1	739.910000000 MHz	26.72	Quasi Peak	-19.28
1	959.750000000 MHz	27.44	Quasi Peak	-18.56

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 56 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 11:18

Test Spec CISPR 22 Radiated Disturbances

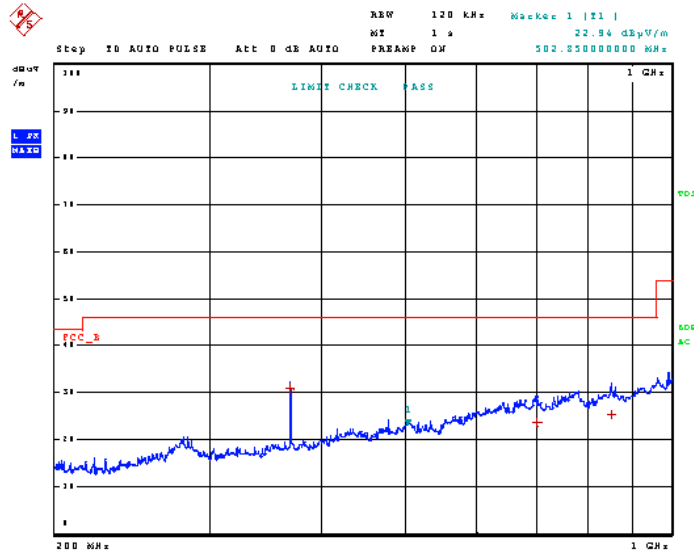
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Vertical Polarity

11.Nov 19 11:18

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	369.95000000 MHz	30.82	Quasi Peak	-15.18
1	703.28000000 MHz	23.55	Quasi Peak	-22.45
1	853.97000000 MHz	25.22	Quasi Peak	-20.78

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 58 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 11:45

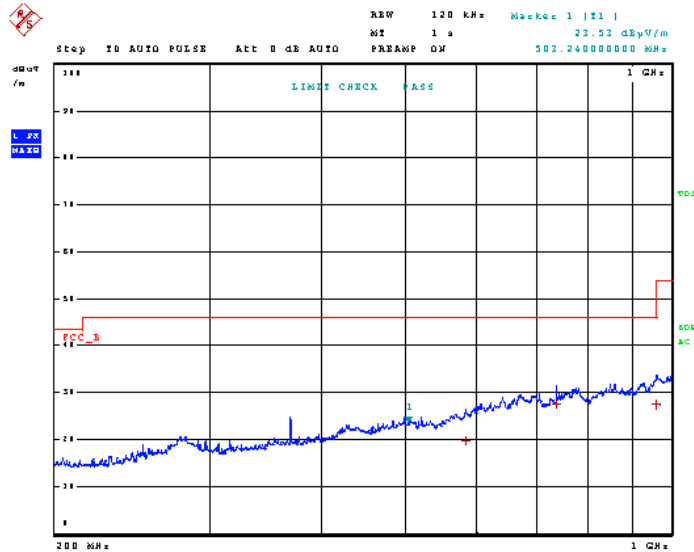
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 11:45

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	584.360000000 MHz	19.86	Quasi Peak	-26.14
1	739.910000000 MHz	27.66	Quasi Peak	-18.34
1	959.240000000 MHz	27.33	Quasi Peak	-18.67

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 60 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 11:35

Test Spec CISPR 22 Radiated Disturbances

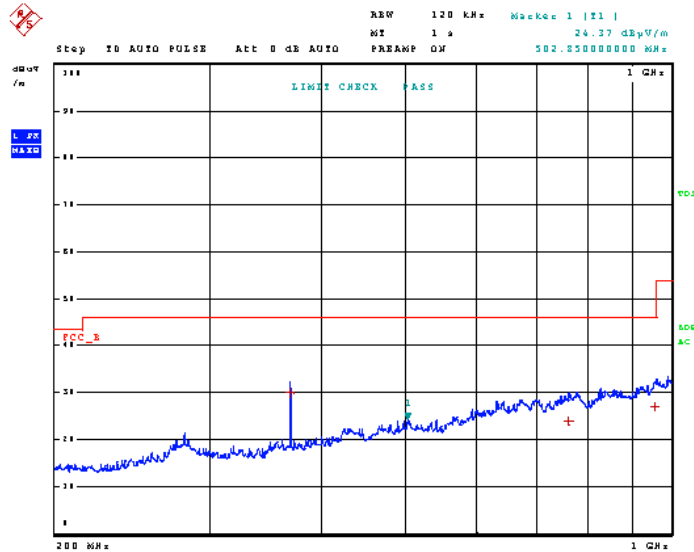
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Vertical Polarity

11.Nov 19 11:35

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	29.88	Quasi Peak	-16.12
1	763.850000000 MHz	24.07	Quasi Peak	-21.93
1	956.660000000 MHz	27.04	Quasi Peak	-18.96

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 62 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Horizontal Polarity



11.Nov 19 11:48

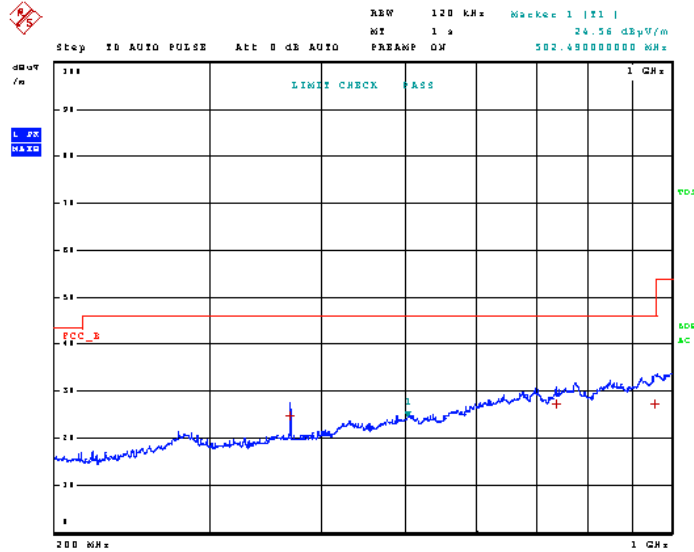
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Horizontal Polarity

11.Nov 19 11:48

Test Spec CISPR 22 Radiated Disturbances
Polarity Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	24.87	Quasi Peak	-21.13
1	739.910000000 MHz	27.19	Quasi Peak	-18.81
1	958.190000000 MHz	27.26	Quasi Peak	-18.74

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 64 of 85

RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Plot, Vertical Polarity



11.Nov 19 12:07

Test Spec CISPR 22 Radiated Disturbances

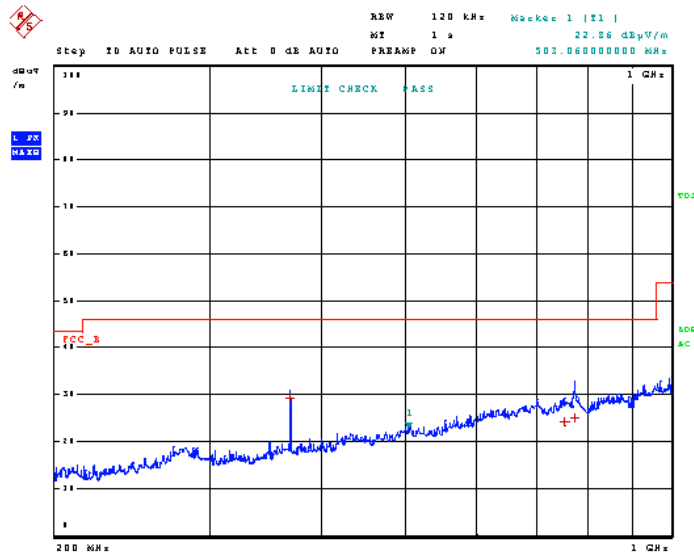
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
 Scan Stop: 1 GHz
 Detector: Trace 1: MAX PEAK
 Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Vertical Polarity

11.Nov 19 12:07

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	369.95000000 MHz	29.21	Quasi Peak	-16.79
1	757.76000000 MHz	24.20	Quasi Peak	-21.80
1	775.94000000 MHz	25.06	Quasi Peak	-20.94

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 66 of 85

RADIATED SPURIOUS EMISSIONS

Scanned 1 GHz to 12.5 GHz

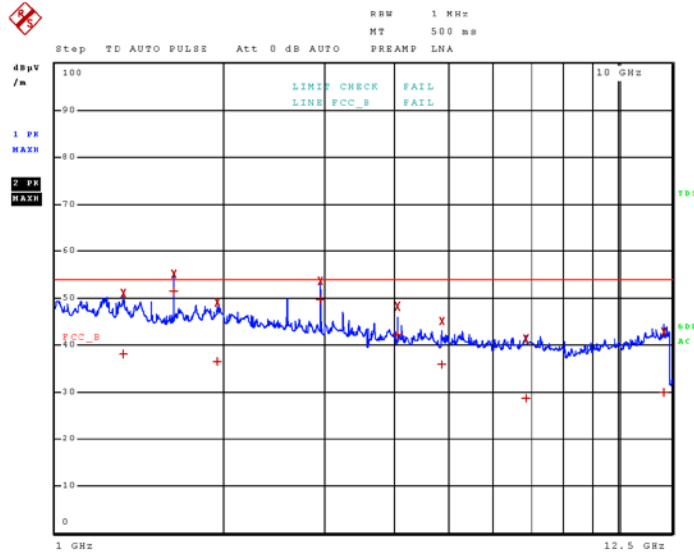
Test Data: 108 MHz Field Strength Plot, Horizontal Polarity

08.Nov 19 18:03

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Horizontal Polarity

08.Nov 19 18:03

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.323500000 GHz	38.13	CISPR Averag	-15.87
2	1.323500000 GHz	50.85	Max Peak	
1	1.623000000 GHz	51.35	CISPR Averag	-2.65
2	1.623000000 GHz	55.05	Max Peak	
1	1.944500000 GHz	36.48	CISPR Averag	-17.52
2	1.944500000 GHz	49.11	Max Peak	
1	2.959500000 GHz	49.73	CISPR Averag	-4.27
2	2.959500000 GHz	53.72	Max Peak	
1	4.057500000 GHz	42.03	CISPR Averag	-11.97
2	4.057500000 GHz	48.18	Max Peak	
1	4.869000000 GHz	35.87	CISPR Averag	-18.13
2	4.869000000 GHz	44.98	Max Peak	
1	6.865000000 GHz	28.73	CISPR Averag	-25.27
2	6.865000000 GHz	41.27	Max Peak	
1	12.091500000 GHz	29.85	CISPR Averag	-24.15
2	12.091500000 GHz	42.79	Max Peak	

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 68 of 85

RADIATED SPURIOUS EMISSIONS

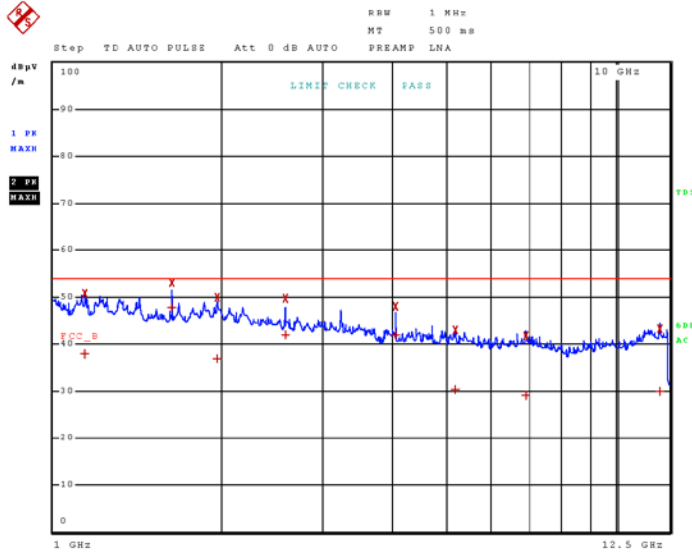
Test Data: 108 MHz Field Strength Plot, Vertical Polarity

08.Nov 19 18:02

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 108 MHz Field Strength Table, Vertical Polarity

08.Nov 19 18:02

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.137500000 GHz	37.89	CISPR Averag	-16.11
2	1.137500000 GHz	50.84	Max Peak	
1	1.623000000 GHz	47.71	CISPR Averag	-6.29
2	1.623000000 GHz	52.98	Max Peak	
1	1.957750000 GHz	36.84	CISPR Averag	-17.16
2	1.957750000 GHz	49.90	Max Peak	
1	2.589500000 GHz	41.90	CISPR Averag	-12.10
2	2.589500000 GHz	49.60	Max Peak	
1	4.057500000 GHz	41.96	CISPR Averag	-12.04
2	4.057500000 GHz	47.92	Max Peak	
1	5.203500000 GHz	30.38	CISPR Averag	-23.62
2	5.203500000 GHz	43.05	Max Peak	
1	6.923000000 GHz	29.00	CISPR Averag	-25.00
2	6.923000000 GHz	41.81	Max Peak	
1	11.999000000 GHz	29.98	CISPR Averag	-24.02
2	11.999000000 GHz	43.14	Max Peak	

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 70 of 85

RADIATED SPURIOUS EMISSIONS

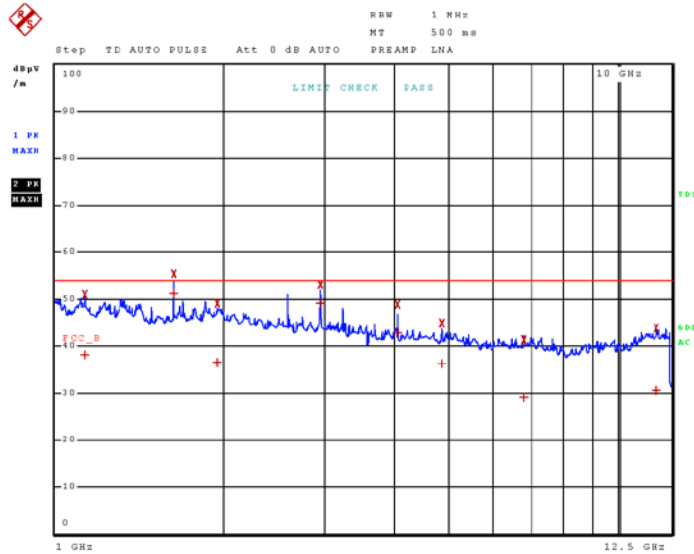
Test Data: 174 MHz Field Strength Plot, Horizontal Polarity

08.Nov 19 18:00

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Horizontal Polarity

08.Nov 19 18:00

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.129250000 GHz	38.11	CISPR Averag	-15.89
2	1.129250000 GHz	50.88	Max Peak	
1	1.623000000 GHz	51.21	CISPR Averag	-2.79
2	1.623000000 GHz	55.39	Max Peak	
1	1.944000000 GHz	36.54	CISPR Averag	-17.46
2	1.944000000 GHz	49.15	Max Peak	
1	2.959500000 GHz	49.15	CISPR Averag	-4.85
2	2.959500000 GHz	53.02	Max Peak	
1	4.057500000 GHz	42.68	CISPR Averag	-11.32
2	4.057500000 GHz	48.84	Max Peak	
1	4.869250000 GHz	36.17	CISPR Averag	-17.83
2	4.869250000 GHz	44.96	Max Peak	
1	6.798500000 GHz	29.11	CISPR Averag	-24.89
2	6.798500000 GHz	41.31	Max Peak	
1	11.707000000 GHz	30.61	CISPR Averag	-23.39
2	11.707000000 GHz	43.71	Max Peak	

RADIATED SPURIOUS EMISSIONS

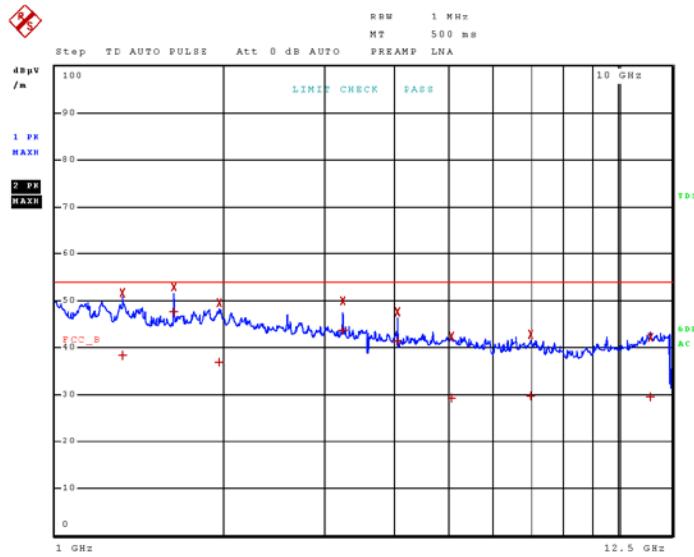
Test Data: 174 MHz Field Strength Plot, Vertical Polarity

08.Nov 19 18:01

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 174 MHz Field Strength Table, Vertical Polarity

08.Nov 19 18:01

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.319250000 GHz	38.34	CISPR Averag	-15.66
2	1.319250000 GHz	51.64	Max Peak	
1	1.623000000 GHz	47.57	CISPR Averag	-6.43
2	1.623000000 GHz	52.93	Max Peak	
1	1.955750000 GHz	36.88	CISPR Averag	-17.12
2	1.955750000 GHz	49.41	Max Peak	
1	3.246000000 GHz	43.56	CISPR Averag	-10.44
2	3.246000000 GHz	49.96	Max Peak	
1	4.057500000 GHz	41.24	CISPR Averag	-12.76
2	4.057500000 GHz	47.53	Max Peak	
1	5.069750000 GHz	29.40	CISPR Averag	-24.60
2	5.069750000 GHz	42.28	Max Peak	
1	7.011250000 GHz	29.77	CISPR Averag	-24.23
2	7.011250000 GHz	42.85	Max Peak	
1	11.446000000 GHz	29.55	CISPR Averag	-24.45
2	11.446000000 GHz	42.20	Max Peak	

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 74 of 85

RADIATED SPURIOUS EMISSIONS

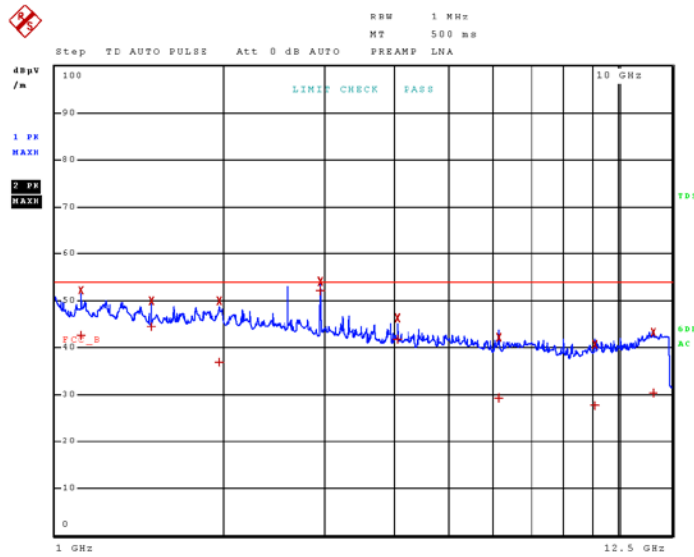
Test Data: 406 MHz Field Strength Plot, Horizontal Polarity

08.Nov 19 17:59

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μs	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Horizontal Polarity

08.Nov 19 17:59

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.109750000 GHz	42.55	CISPR Averag	-11.45
2	1.109750000 GHz	52.26	Max Peak	
1	1.479750000 GHz	44.46	CISPR Averag	-9.54
2	1.479750000 GHz	49.90	Max Peak	
1	1.955000000 GHz	36.94	CISPR Averag	-17.06
2	1.955000000 GHz	49.89	Max Peak	
1	2.959500000 GHz	52.08	CISPR Averag	-1.92
2	2.959500000 GHz	54.00	Max Peak	
1	4.057500000 GHz	41.60	CISPR Averag	-12.40
2	4.057500000 GHz	46.36	Max Peak	
1	6.161000000 GHz	29.31	CISPR Averag	-24.69
2	6.161000000 GHz	42.09	Max Peak	
1	9.106750000 GHz	27.64	CISPR Averag	-26.36
2	9.106750000 GHz	40.67	Max Peak	
1	11.552250000 GHz	30.39	CISPR Averag	-23.61
2	11.552250000 GHz	43.28	Max Peak	

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 76 of 85

RADIATED SPURIOUS EMISSIONS

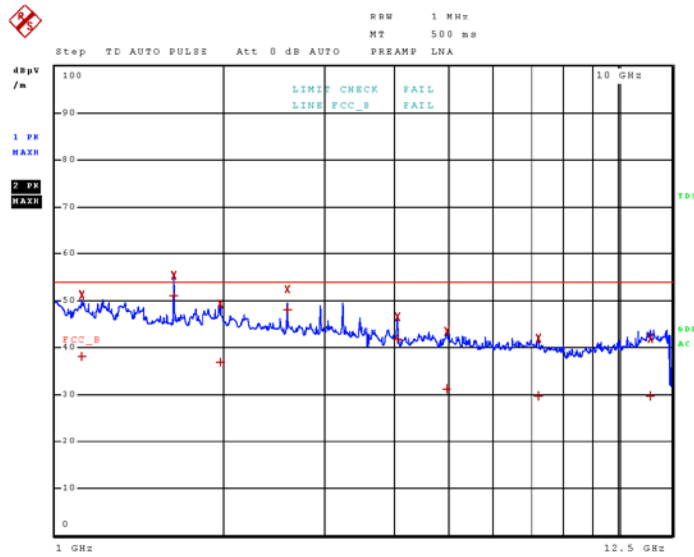
Test Data: 406 MHz Field Strength Plot, Vertical Polarity

08.Nov 19 17:58

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 406 MHz Field Strength Table, Vertical Polarity

08.Nov 19 17:58

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.116000000 GHz	38.22	CISPR Averag	-15.78
2	1.116000000 GHz	51.13	Max Peak	
1	1.623000000 GHz	50.89	CISPR Averag	-3.11
2	1.623000000 GHz	55.34	Max Peak	
1	1.967000000 GHz	36.92	CISPR Averag	-17.08
2	1.967000000 GHz	49.33	Max Peak	
1	2.589750000 GHz	48.02	CISPR Averag	-5.98
2	2.589750000 GHz	52.48	Max Peak	
1	4.057500000 GHz	41.61	CISPR Averag	-12.39
2	4.057500000 GHz	46.48	Max Peak	
1	4.973500000 GHz	31.10	CISPR Averag	-22.90
2	4.973500000 GHz	43.41	Max Peak	
1	7.233500000 GHz	29.70	CISPR Averag	-24.30
2	7.233500000 GHz	42.01	Max Peak	
1	11.448000000 GHz	29.76	CISPR Averag	-24.24
2	11.448000000 GHz	41.99	Max Peak	

RADIATED SPURIOUS EMISSIONS

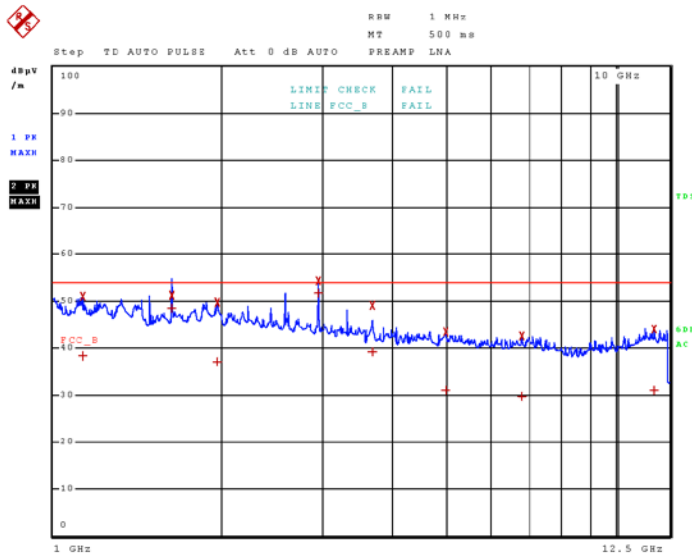
Test Data: 512 MHz Field Strength Plot, Horizontal Polarity

08.Nov 19 17:54

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Horizontal Polarity

08.Nov 19 17:54

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.128500000 GHz	38.39	CISPR Averag	-15.61
2	1.128500000 GHz	50.97	Max Peak	
1	1.623000000 GHz	48.49	CISPR Averag	-5.51
2	1.623000000 GHz	51.23	Max Peak	
1	1.954000000 GHz	37.16	CISPR Averag	-16.84
2	1.954000000 GHz	49.73	Max Peak	
1	2.959500000 GHz	51.53	CISPR Averag	-2.47
2	2.959500000 GHz	54.22	Max Peak	
1	3.699500000 GHz	39.27	CISPR Averag	-14.73
2	3.699500000 GHz	49.12	Max Peak	
1	4.996000000 GHz	30.91	CISPR Averag	-23.09
2	4.996000000 GHz	43.45	Max Peak	
1	6.814750000 GHz	29.79	CISPR Averag	-24.21
2	6.814750000 GHz	42.59	Max Peak	
1	11.705750000 GHz	31.01	CISPR Averag	-22.99
2	11.705750000 GHz	43.91	Max Peak	

Page 2 of 2

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB372D
IC: 513C-UB372D
Report: 3002AUT19TestReport_Rev1

Page 80 of 85

RADIATED SPURIOUS EMISSIONS

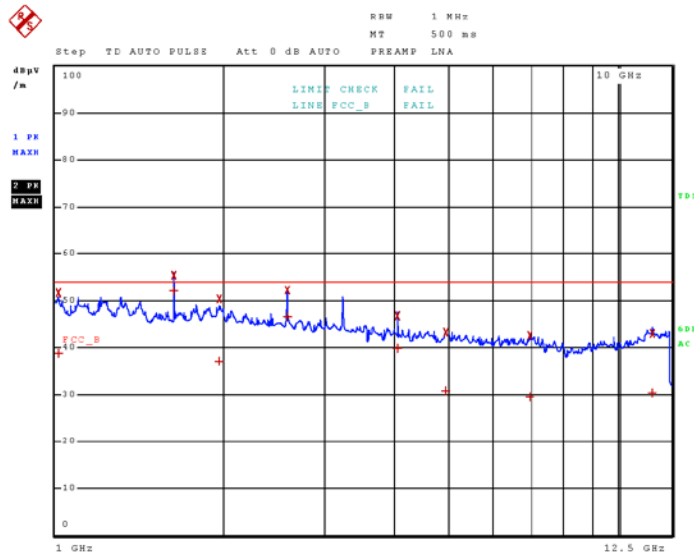
Test Data: 512 MHz Field Strength Plot, Vertical Polarity

08.Nov 19 17:56

Time Domain Scan (1 Range)

Scan Start: 1 GHz
 Scan Stop: 12.5 GHz
 Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
 Transducer: TDS_05

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: 512 MHz Field Strength Table, Vertical Polarity

08.Nov 19 17:56

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.012500000 GHz	38.86	CISPR Averag	-15.14
2	1.012500000 GHz	51.59	Max Peak	
1	1.623000000 GHz	52.02	CISPR Averag	-1.98
2	1.623000000 GHz	55.32	Max Peak	
1	1.961500000 GHz	37.15	CISPR Averag	-16.85
2	1.961500000 GHz	50.39	Max Peak	
1	2.589750000 GHz	46.53	CISPR Averag	-7.47
2	2.589750000 GHz	52.28	Max Peak	
1	4.057500000 GHz	39.81	CISPR Averag	-14.19
2	4.057500000 GHz	46.66	Max Peak	
1	4.955000000 GHz	30.87	CISPR Averag	-23.13
2	4.955000000 GHz	43.19	Max Peak	
1	6.992500000 GHz	29.60	CISPR Averag	-24.40
2	6.992500000 GHz	42.50	Max Peak	
1	11.549750000 GHz	30.37	CISPR Averag	-23.63
2	11.549750000 GHz	42.98	Max Peak	

RADIATED SPURIOUS EMISSIONS

ANTENNA CONDUCTED POWER

Rule Part No.: FCC Part 15 Subpart B

Requirements: FCC Part 15.111(a) Antenna power conduction limits for receivers
In addition to the radiated emission limits. Receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of §15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna. Provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in §15.33 shall not exceed 2.0 nanowatts.

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements

FCC Part 15.35(a) Measurement detector functions and bandwidths

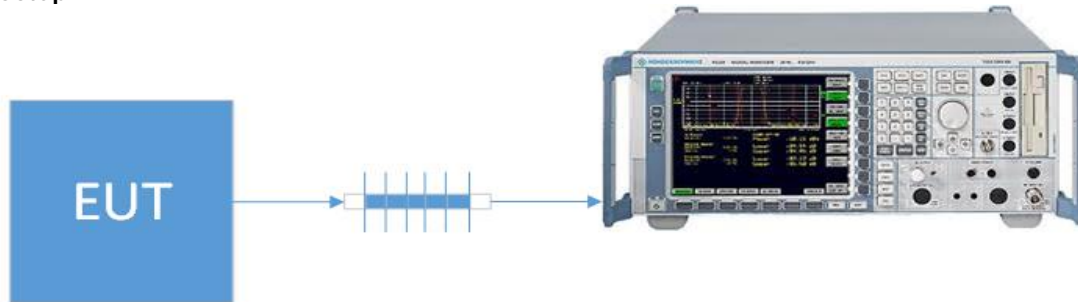
ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 12.2.2 Operating conditions

§ 12.2.6 Antenna-conducted power measurements

Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped, all while the antenna terminals are connected to a EMI receiver through a 50 Ω coaxial cable.

Setup:



Results: N/A.

POWER LINE CONDUCTED INTERFERENCE

Rules Part No.: Part 15.107, RSS-GEN sec 8.8

Requirements:

Frequency (MHz)	Quasi Peak Limits (dB μ V)	Average Limits (dB μ V)
0.15 – 0.5	66 – 56 *	56 – 46 *
0.5 – 5.0	56	46
5.0 – 30	60	50
* Decrease with logarithm of frequency		

Test Data: N/A

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1096	Eaton	94455-1	1096	08/01/17	08/01/20
Antenna: Log-Periodic 1243	Electro-Metrics	LPA-25	1243	03/29/18	03/29/20
CHAMBER	Panashield	3M	N/A	12/31/17	12/31/19
Antenna: Double- Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	03/01/17	03/01/20
Software: Field Strength Program	Timco	N/A	Version 4.10.7.0	N/A	N/A
Antenna: Active Loop	ETS-Lindgren	6502	00062529	12/11/17	12/11/19
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	08/28/18	08/28/21
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	02/29/19	02/29/21
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

END OF TEST REPORT

Applicant: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUB372D
 IC: 513C-UB372D
 Report: 3002AUT19TestReport_Rev1