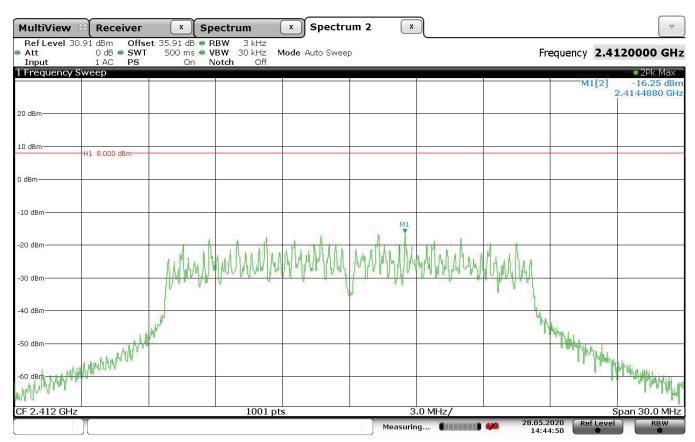


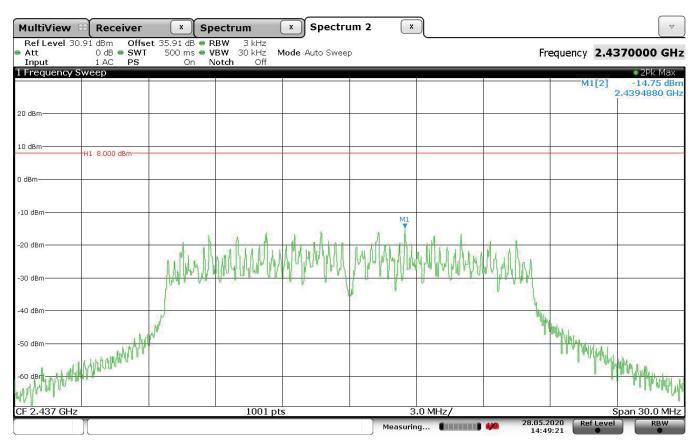
Test Details		
Manufacturer	Weber-Stephen Products LLC	
Model	Falcon	
S/N	NA	
Mode	Transmit	
Carrier Frequency	2412MHz 802.11g 6Mbps	
Parameters	PSD = -16.25dBm	
Notes		



Date: 28.MAY.2020 14:44:50



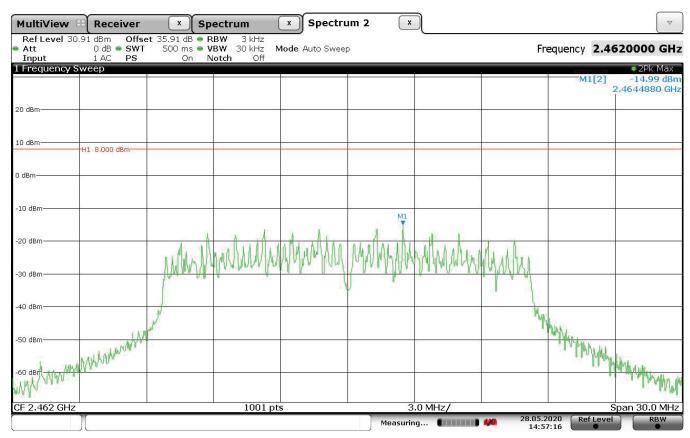
Test Details		
Manufacturer	Weber-Stephen Products LLC	
Model	Falcon	
S/N	NA	
Mode	Transmit	
Carrier Frequency	2437MHz 802.11g 6Mbps	
Parameters	PSD = -14.75dBm	
Notes		



Date: 28.MAY.2020 14:49:21



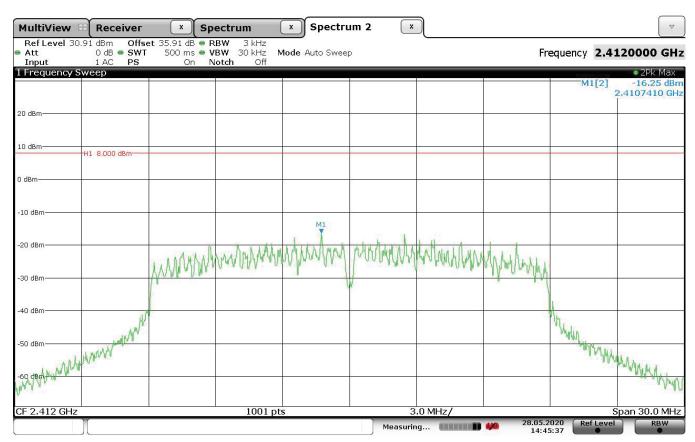
Test Details		
Manufacturer	Weber-Stephen Products LLC	
Model	Falcon	
S/N	NA	
Mode	Transmit	
Carrier Frequency	2462MHz 802.11g 6Mbps	
Parameters	PSD = -14.99dBm	
Notes		



Date: 28.MAY.2020 14:57:17



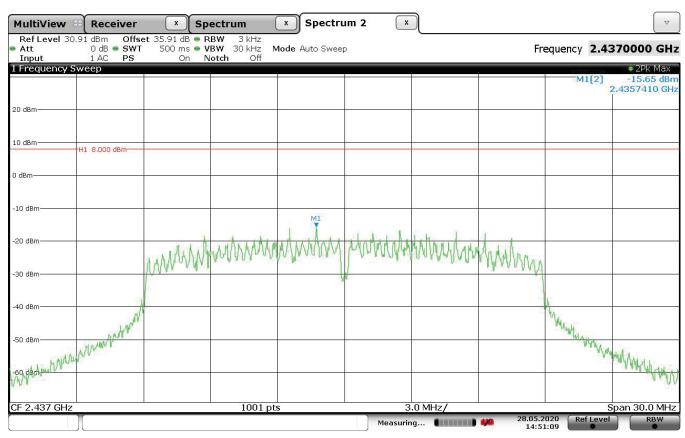
Test Details		
Manufacturer	Weber-Stephen Products LLC	
Model	Falcon	
S/N	NA NA	
Mode	Transmit	
Carrier Frequency	2412MHz 802.11n HT20 MCS0	
Parameters	PSD = -16.25dBm	
Notes		



Date: 28.MAY.2020 14:45:37



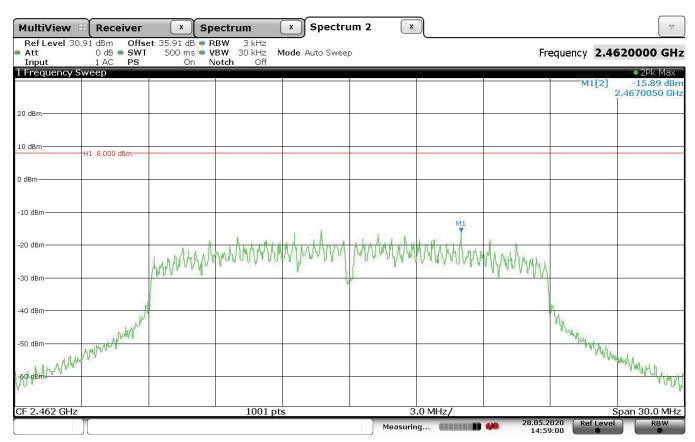
Test Details		
Manufacturer	Weber-Stephen Products LLC	
Model	Falcon	
S/N	NA	
Mode	Transmit	
Carrier Frequency	2437MHz 802.11n HT20 MCS0	
Parameters	PSD = -15.65dBm	
Notes		



Date: 28.MAY.2020 14:51:09



Test Details		
Manufacturer	Weber-Stephen Products LLC	
Model	Falcon	
S/N	NA	
Mode	Transmit	
Carrier Frequency	2462MHz 802.11n HT20 MCS0	
Parameters	PSD = -15.89dBm	
Notes		



Date: 28.MAY.2020 14:59:00



Scope of Accreditation



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC. 1516 Centre Circle

Downers Grove, IL 60515

Robert Bugielski (QA Manager) Phone: 630 495 9770 ext. 168

Email: rbugielski@elitetest.com

Craig Fanning (EMC Lab Manager) Phone: 630 495 9770 ext. 112

Email: cfanning@elitetest.com

Stanley Dolecki (Automotive Team Leader) Phone: 630 495 9770 ext. 103

Email: sdolecki@elitetest.com Website: www.elitetest.com

ELECTRICAL

Valid to: June 30, 2021 Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory to perform the following <u>automotive electromagnetic</u> <u>compatibility and other electrical tests</u>:

Test Technology:	Test Method(s) 1:
Transient Immunity	ISO 7637-2 (including emissions); ISO 7637-3;
	ISO 16750-2:2012, Sections 4.6.3 and 4.6.4;
	CS-11979, Section 6.4; CS.00054, Section 5.9;
	EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
	GMW 3097, Section 3.5;
	SAE J1113-11; SAE J1113-12
Electrostatic Discharge (ESD)	ISO 10605 (2001, 2008);
	CS-11979 Section 7.0; CS.00054, Section 5.10;
	EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13;
	GMW 3097 Section 3.6
Conducted Emissions	CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
	CISPR 25 (2016), Sections 6.3 and 6.4;
	CS-11979, Section 5.1; CS.00054, Sections 5.6.1 and 5.6.2;
	GMW 3097, Section 3.3.2;
	EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421)
Radiated Emissions Anechoic	CISPR 25 (2002, 2008), Section 6.4;
	CISPR 25 (2016), Section 6.5;
	CS-11979, Section 5.3; CS.00054, Section 5.6.3;
	GMW 3097, Section 3.3.1;
	EMC-CS-2009.1 (RE 310); FMC1278 (RE310)
Vehicle Radiated Emissions	CISPR 12: ICES-002

(A2LA Cert. No. 1786.01) Revised 01/10/2020

Page 1 of 8

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org



<u>Test Technology:</u> <u>Test Method(s) ¹:</u>

Bulk Current Injection (BCI) ISO 11452-4;

CS-11979, Section 6.1; CS.00054, Section 5.8.1;

GMW 3097, Section 3.4.1;

SAE J1113-4;

EMC-CS-2009.1 (RI112); FMC1278 (RI112)

Bulk Current Injections (BCI)

(Closed Loop Method)

ISO 11452-4; SAE J1113-4

Radiated Immunity Anechoic ISO 11452-2; ISO 11452-5;

(Including Radar Pulse) CS-11979, Section 6.2; CS.00054, Section 5.8.2;

GMW 3097, Section 3.4.2;

EMC-CS-2009.1 (RI114); FMC1278 (RI114); SAE J1113-21

Radiated Immunity Magnetic Field ISO 11452-8

Radiated Immunity Reverb ISO/IEC 61000-4-21;

GMW 3097, Section 3.4.3;

EMC-CS-2009.1 (RI114); FMC1278 (RI114);

ISO 11452-11

Radiated Immunity ISO 11452-9;

(Portable Transmitters) EMC-CS-2009.1 (RI115); FMC1278 (RI115)

Vehicle Radiated Immunity (ALSE) ISO 11451-2

Electrical Loads ISO 16750-2, Sections 4.2, 4.3, 4.4, 4.5, 4.6, 4.7,

4.8, 4.9, 4.11, and 4.12

Dielectric Withstand Voltage MIL-STD-202, Method 301;

EIA-364-20D

Insulation Resistance MIL-STD-202, Method 302;

SAE/USCAR-2, Revision 6, Section 5.5.1;

EIA-364-21D

Contact Resistance MIL-STD-202, Method 307;

SAE/USCAR-2, Revision 6, Section 5.3.1;

EIA/ECA-364-23C; USCAR21-3 Section 4.5.3

DC Resistance MIL-STD-202, Method 303

Contact Chatter MIL-STD-202, Method 310;

SAE/USCAR-2, Revision 6, Section 5.1.9

Voltage Drop SAE/USCAR-2, Revision 6, Section 5.3.2;

USCAR21-3 Section 4.5.6

(A2LA Cert. No. 1786.01) Revised 01/10/2020

Page 2 or



<u>Test Technology:</u> <u>Test Method(s)¹:</u>

Emissions

Radiated and Conducted (3m Semi-anechoic chamber,

up to 40 GHz)

47 CFR, FCC Part 15 B (using ANSI C63.4:2014); 47 CFR, FCC Part 18 (using FCC MP-5:1986);

ICES-001; ICES-003; ICES-005;

IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004);

IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010);

KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008); CISPR 11; EN 55011; KN 11; CNS 13803 (1997, 2003); CISPR 14-1; EN 55014-1; AS/NZS CISPR 14-1; KN 14-1; IEC/CISPR 22 (1997); EN 55022 (1998) + A1(2000); EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006); EN 55022 (2008 00); AS/NZS CISPR 22 (2004);

IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004);

AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz);

CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz);

CISPR 32; EN 55032; KN 32

Current Harmonics IEC 61000-3-2; EN 61000-3-2; KN 61000-3-2

Flicker and Fluctuations IEC 61000-3-3; EN 61000-3-3; KN 61000-3-3

Immunity

Electrostatic Discharge IE

IEC 61000-4-2, Ed. 1.2 (2001); IEC 61000-4-2 (1995) + A1(1998) + A2(2000); EN 61000-4-2 (1995); EN 61000-4-2 (2009-05);

KN 61000-4-2 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);

IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2;

IEEE C37.90.3 2001

Radiated Immunity IEC 61000-4-3 (1995) + A1(1998) + A2(2000);

IEC 61000-4-3, Ed. 3.0 (2006-02); IEC 61000-4-3, Ed. 3.2 (2010);

KN 61000-4-3 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);

IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3;

IEEE C37.90.2 2004

Electrical Fast Transient/Burst IEC 61000-4-4, Ed. 2.0 (2004-07); IEC 61000-4-4, Ed. 2.1 (2011);

IEC 61000-4-4 (1995) + A1(2000) + A2(2001);

KN 61000-4-4 (2008-5); RRL Notice No. 2008-5 (May 20, 2008);

IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4

Surge IEC 61000-4-5 (1995) + A1(2000);

IEC 61000-4-5, Ed 1.1 (2005-11); EN 61000-4-5 (1995) + A1(2001);

KN 61000-4-5 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);

IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5;

IEEE C37.90.1 2012

(A2LA Cert. No. 1786.01) Revised 01/10/2020

Page 3



Test Technology:

Immunity (cont'd) IEC 61000-4-6 (1996) + A1(2000); Conducted Immunity IEC 61000-4-6, Ed 2.0 (2006-05); IEC 61000-4-6 Ed. 3.0 (2008); KN 61000-4-6 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6; EN 61000-4-6; KN 61000-4-6 IEC 61000-4-8 (1993) + A1(2000); IEC 61000-4-8 (2009); Power Frequency Magnetic Field Immunity EN 61000-4-8 (1994) + A1(2000); KN 61000-4-8 (2008-5); RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8 Voltage Dips, Short Interrupts, and Line IEC 61000-4-11, Ed. 2 (2004-03); KN 61000-4-11 (2008-5); Voltage Variations RRL Notice No. 2008-4 (May 20, 2008); IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11 Ring Wave IEC 61000-4-12, Ed. 2 (2006-09); EN 61000-4-12:2006; IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12 Generic and Product Specific EMC IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1; Standards IEC/EN 61000-6-2; AS/NZS 61000-6-2; KN 61000-6-2; IEC/EN 61000-6-3; AS/NZS 61000-6-3; KN 61000-6-3; IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4; EN 50130-4; IEC 61326-1; IEC/CISPR 14-2; EN 55014-2; AS/NZS CISPR 14.2; KN 14-2; IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24; IEC 60601-1-2; JIS T0601-1-2 TxRx EMC Requirements EN 301 489-1; EN 301 489-3; EN 301 489-9; EN 301 489-17; EN 301 489-19; EN 301 489-52; ETSI EN 300 086-1; ETSI EN 300 086-2; European Radio Test Standards ETSI EN 300 113-1; ETSI EN 300 113-2; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 330-1; ETSI EN 300 330-2; ETSI EN 300 440-1; ETSI EN 300 440-2; ETSI EN 300 422-1; ETSI EN 300 422-2; ETSI EN 300 328; ETSI EN 301 893; ETSI EN 301 511; ETSI EN 301 908-1; ETSI EN 908-2; ETSI EN 908-13; ETSI EN 301 413; ETSI EN 302 502

Test Method(s) 1:

(A2LA Cert. No. 1786.01) Revised 01/10/2020

1 Dans 4 of



<u>Test Technology:</u> <u>Test Method(s)¹:</u>

Canadian Radio Tests RSS-102 (RF Exposure Evaluation only); RSS-111; RSS-112;

RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141; RSS-142; RSS-170; RSS-181; RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-196; RSS-197; RSS-199; RSS-210; RSS-211; RSS-213; RSS-215; RSS-216; RSS-220; RSS-222; RSS-236; RSS-238; RSS-243; RSS-244; RSS-246; RSS-247; RSS-251; RSS-252; RSS-287;

RSS-288; RSS-310; RSS-GEN

Mexico Radio Tests IFT-008; NOM-208-SCFI

Japan Radio Tests Radio Law No. 131, Ordinance of MPT No. 37, 1981,

MIC Notification No. 88:2004, Table No. 22-11;

ARIB STD-T66, Regulation 18

Taiwan Radio Tests LP-0002

Australia/New Zealand Radio Tests AS/NZS 4268; Radiocommunications (Short Range Devices)

Standard (2014)

Hong Kong Radio Tests HKCA 1039 Issue 6; HKCA 1042; HKCA 1033 Issue 7;

HKCA 1061; HKCA 1008; HKCA 1043; HKCA 1057;

HKCA 1073

KN 301 489-1; KN 301 489-3; KN 301 489-9; KN 301 489-17;

KN 301 489-52

Unlicensed Radio Frequency Devices

(3 Meter Semi-Anechoic Room)

47 CFR FCC Part 15C, 15D, 15E, 15F, 15G, 15H (using ANSI C63.10:2013, ANSI C63.17:2013 and

FCC KDB 905462 D02 (v02))

Licensed Radio Service Equipment 47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87,

90, 95, 96, 97, 101;

ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015;

OTA (Over the Air) Performance

GSM, GPRS, EGPRS UMTS (W-CDMA) LTE including CAT M1 A-GPS for UMTS/GSM LTS A-GPS, A-GLONASS,

SIB8/SIB16

Large Device/Laptop/Tablet Testing

Integrated Device Testing WiFi 802.11 a/b/g/n/ac

CTIA Test Plan for Wireless Device Over-the-Air Performance (Method for Measurement for Radiated Power and Receiver

Performance) V3.8.2;

CTIA Test Plan for RF Performance Evaluation of WiFi Mobile

Converged Devices V2.1.0

(A2LA Cert. No. 1786.01) Revised 01/10/2020

m Page



Test Technology:

Test Method(s) 1:

Electrical Measurements and

Simulation

AC Voltage / Current (ImV to 5kV) 60 Hz FAA AC 150/5345-43J (0.1V to 250V) up to 500 MHz (1μA to 150A) 60 Hz FAA AC 150/5345-44K FAA AC 150/5345-46E DC Voltage / Current (ImV to 15-kV) / (1μA to 10A) FAA EB 67D

Power Factor / Efficiency / Crest Factor

(Power to 30kW)

Resistance

 $(1m\Omega \text{ to } 4000\text{M}\Omega)$

Surge

(Up to 10 kV / 5 kA) (Combination

Wave and Ring Wave)

On the following products and materials:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE), Automotive Electronic Equipment, Automotive Hybrid Electronic Devices, Maritime Navigation and Radio Communication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices, Automotive, Aviation, and General Lighting Products, Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Control gear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use, Base Materials, Power and Data Transmission Cables and Connectors

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u> Part 18	FCC MP-5 (February 1986)	40000
Intentional Radiators Part 15C	ANSI C63.10:2013	40000
Unlicensed Personal Communication Systems Devices Part 15D	ANSI C63.17:2013	40000

(A2LA Cert. No. 1786.01) Revised 01/10/2020

Page 6 of 8

¹ When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories.



Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table $\rm A.1^2$

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>U-NII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000
U-NII with DFS Intentional Radiators Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u> Part 15F	ANSI C63.10:2013	40000
BPL Intentional Radiators Part 15G	ANSI C63.10:2013	40000
White Space Device Intentional Radiators Part 15H	ANSI C63.10:2013	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97, and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96 Maritime and Aviation Radio Services Parts 80 and 87	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015 ANSI/TIA-603-E; ANSI C63.26:2015	40000 40000
Microwave and Millimeter Bands Radio Services Parts 25, 30, 74, 90 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000
Broadcast Radio Services Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015	40000

(A2LA Cert. No. 1786.01) Revised 01/10/2020

Page 7 of 8



Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table $\rm A.1^2$

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
Signal Boosters Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) Section 90.219	ANSI C63.26:2015	40000

²Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

(A2LA Cert. No. 1786.01) Revised 01/10/2020

Page





Accredited Laboratory

A2LA has accredited

ELITE ELECTRONIC ENGINEERING INC.

Downers Grove, IL

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 8th day of August 2019.

Vice President, Accreditation Services For the Accreditation Council Certificate Number 1786.01 Valid to June 30, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.