

Prüfbericht-Nr.: <i>Test Report No.:</i>	CN24S2LB 001	Auftrags-Nr.: <i>Order No.:</i>	158290456	Seite 1 von 26 <i>Page 1 of 26</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	23.07.2024	
Auftraggeber: <i>Client:</i>	Sound Devices, LLC E7556 State Road 23 and 33, P.O. BOX 576 Reedsburg, Wisconsin, WI 53959, USA			
Prüfgegenstand: <i>Test item:</i>	A20-Outpost-NL			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	28450			
Auftrags-Inhalt: <i>Order content:</i>	FCC and ISED Certification			
Prüfgrundlage: <i>Test specification:</i>	FCC Part 15 Subpart C; ANSI C63.10-2013 RSS-247 Issue 3; RSS-Gen Issue 5+Amendment 1+Amendment 2			
Wareneingangsdatum: <i>Date of receipt:</i>	23.07.2024			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A003436743-001			
Prüfzeitraum: <i>Testing period:</i>	23.07.2024 - 10.09.2024			
Ort der Prüfung: <i>Place of testing:</i>	Hong Kong			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Hong Kong Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
 04.10.2024 Wooga Wu / Assistant Test Engineer		 04.10.2024 Billy Yip / Laboratory Manager		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
Sonstiges / Other : FCC ID : 2AKLX-28450 IC ID : 22225-28450 HVIN : 28450 "Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

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Product information

The equipment under test (EUT) is a 2.4GHz remote NexLink antenna box with Bluetooth Low Energy (BLE) and NexLink (LoRa) radio.

PMN: A20-Outpost-NL	HVIN: 28450
FVIN: N/A	HMN: N/A

Manufacturers declarations

Bluetooth Radio	Transceiver
Operating frequency range	2402 - 2480 MHz
Type of modulation	GFSK
Number of channels	40
Channel separation	2 MHz
Type of antenna	External
Antenna gain (dBi)	2.0 dBi
Power level	Fixed
General	
Type of equipment	Stand-alone Radio Device
Connection to public utility power line	No
Nominal voltage	5 VDC (USB-C), 48 VDC (PoE)
Independent Operation Modes	Transceiver

Product function and intended use

The equipment under test (EUT) is a 2.4GHz remote NexLink antenna box with Bluetooth Low Energy (BLE) and NexLink (LoRa) radio. Power is supplied from either a PoE (Ethernet 1) or USB-C 15W power supply.

There are two (supplied) external 2.4 GHz swivel-type dipole antennas that connect directly to SMA female connectors on the front panel. The antenna-switching diversity for transmission and reception and shares the external antennas between BLE and NexLink radios. Only one radio may be connected to one antenna at any one time.

FCC ID : 2AKLX-28450

IC ID : 22225-28450 HVIN : 28450

Models	Product description
28450	A20-Outpost-NL

Submitted documents

Circuit Diagram, Block Diagram, Technical Description, User manual, Label

Independent Operation Modes

The basic operation modes are:

- Transceiver mode.

For further information refer to User Manual

Related Submittal(s) Grants

- This is a single application for certification of the Transceiver Module.

Remark

The test results in this test report are only relevant to the tested sample and does not involve any assessment in the production.

The EUT is a remote NexLink antenna box which incorporates BLE and NexLink (LoRa) radio. This report is for reporting on BLE radio only. Refer to test report CN24XVTP 001 issued by TÜV Rheinland Hong Kong Ltd for NexLink radio.

Test Set-up and Operation Mode

Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test Operation and Test Software

Test operation should refer to test methodology.

- During test, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power is fixed.

Special Accessories and Auxiliary Equipment

- Nil

Countermeasures to achieve EMC Compliance

- Nil

Test Methodology

Radiated Emission

The radiated emission measurements of the transmitter part were performed according to the procedures in ANSI C63.10-2013.

For measurement below 1GHz - the equipment under test (EUT) was placed at the middle of the 80 cm height turntable. For measurement above 1GHz - the EUT was placed at the middle of the 1.5 m height turntable and RF absorbing material was placed on ground plane between turntable and measuring antenna. During the testing, the EUT was operated standalone and arranged for maximum emissions. The EUT was tested in three orthogonal planes.

The investigation is performed with the EUT rotated 360 °, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained.

All radiated tests were performed at an antenna to EUT with 3 meters distance, unless stated otherwise in particular parts of this test report.

Field Strength Calculation

The field strength at 3 m was established by adding the meter reading of the spectrum analyzer to the factors associated with antenna correction factor, cable loss, preamplifiers and filter attenuation.

The equation is expressed as follow:

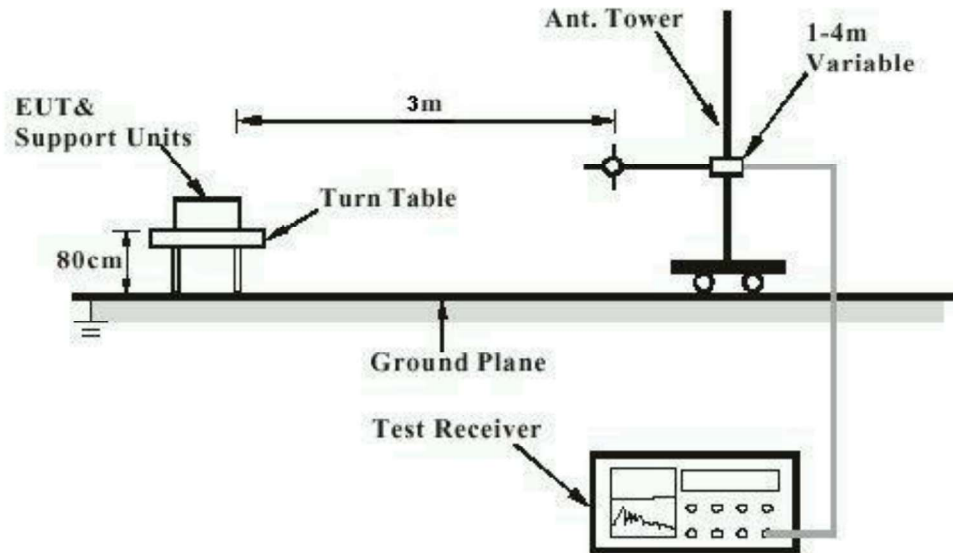
$$FS = R + AF + CF + FA - PA$$

Where FS = Field Strength in dBuV/m at 3 meters.
R = Reading of Spectrum Analyzer in dBuV.
AF = Antenna Factor in dB.
CF = Cable Attenuation Factor in dB.
FA = Filter Attenuation Factor in dB.
PA = Preamplifier Factor in dB.

FA and PA are only be used for the measuring frequency above 1 GHz.

Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1 GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)

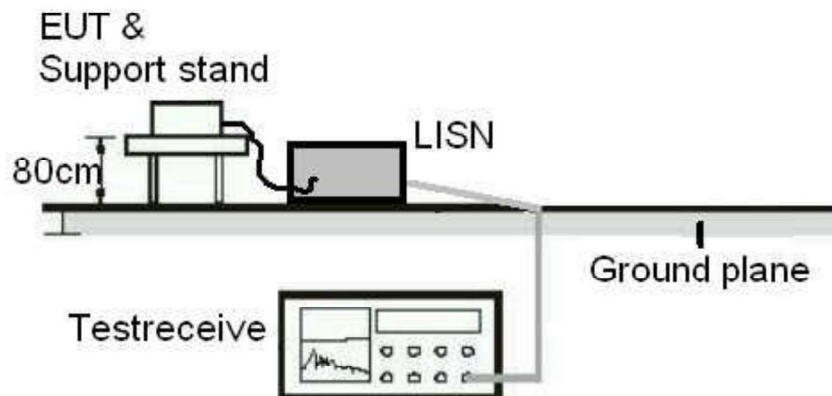
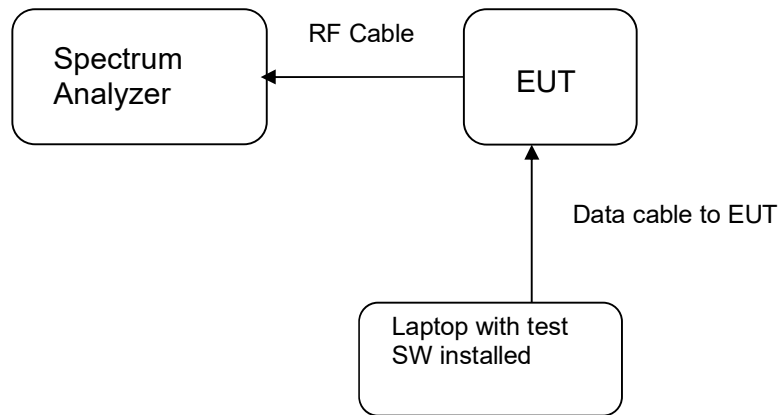


Diagram of Equipment Configuration for Antenna-port Conducted Measurement (if applicable)

Test Facility

Test Laboratory Information

TÜV Rheinland Hong Kong Ltd.

Address: 3-4/F, Fou Wah Industrial Building, 10-16 Pun Shan Street, Tsuen Wan, N.T., Hong Kong

Tel.: +852 2192 1000

Fax: +852 2192 1001

Email service-gc@tuv.com

The test facility is recognized or accredited by the following organizations:

FCC

Designation Number : HK0013

ISED/IC

Company Number : 26152

Hong Kong Productivity Council

Address: LG 1/F., HKPC Building, 78 Tat Chee Road

Tel.: +852 2788 6396

Fax: +852 2788 5405

Email: emc@hkpc.org

The test facility is recognized or accredited by the following organizations:

FCC

Designation Number : HK0012

ISED/IC

Company Number : 4780A

List of Test and Measurement Instruments

Hong Kong Productivity Council

Radiated Emission

Equipment	Manufacturer	Type	Cal. Date	Due Date
Multi-functional Anechoic Chamber (NSA)	Albatross	---	06-Jan-24	06-Jan-25
Multi-functional Anechoic Chamber (VSWR)	Albatross	---	04-Jan-24	04-Jan-25
Test Receiver	Rohde & Schwarz	ESU40	09-Mar-24	09-Mar-25
Double-Ridged Waveguide Horn	EMCO	3117	21-Nov-23	21-Nov-24
Bi-conical Antenna	Rohde & Schwarz	HK116	24-Oct-22	24-Oct-24
Log Periodic Antenna	Rohde & Schwarz	HL223	25-Oct-22	25-Oct-24
Cable	SF118/11N/11 N/12000MM	Huber+Suhner	06-Jan-24	06-Jan-25
Microwave amplifier	COM-POWER Corporation	PAM-118A	03-Mar-24	03-Mar-25
High Pass Filter	Trilithic	23042	29-Oct-23	29-Oct-25

TÜV Rheinland Hong Kong Ltd.

Conducted Emission on AC mains port

Equipment	Manufacturer	Type	Cal. Date	Due Date
EMI Test Receiver	R & S	ESR 3	07-Aug-24	06-Aug-25
LISN	R & S	ENV216	18-Oct-23	18-Oct-24
RF Coaxial Cable	R & S	N/A	23-Aug-23	23-Aug-24
Measurement software	R & S	EMC32	N/A	N/A

Radio Test

Equipment	Manufacturer	Type	Cal. Date	Due Date
Spectrum Analyzer	R & S	FSV40	07-Aug-24	06-Aug-25

Measurement Uncertainty

The estimated combined standard uncertainty for power-line conducted emissions measurements is $\pm 3.36\text{dB}$.

The estimated combined standard uncertainty for radiated emissions measurements is $\pm 4.81\text{dB}$ (9kHz to 30MHz) and $\pm 4.62\text{dB}$ (30MHz to 200MHz) and $\pm 5.67\text{dB}$ (200MHz to 1000MHz) and is $\pm 5.07\text{dB}$ (1GHz to 8.2GHz) and $\pm 4.58\text{dB}$ (8.2GHz to 12.4GHz) and $\pm 4.78\text{dB}$ (12.4GHz to 18GHz)

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for the level of confidence is approximately 95%.

Results FCC Part 15 – Subpart C / RSS-247 Issue 3

FCC 15.203 – Antenna Requirement 1		Pass
FCC Requirement: No antenna other than that furnished by the responsible party shall be used with the device		
Results:	a) Antenna type: External b) Manufacturer and model no: Pulse-Larson W1010 c) Peak Gain: 2.0 dBi	
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2		Pass
FCC Requirement: An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.		
Results:	Two authorized external antennas are marketed together with the intentional radiator.	
Verdict:	Pass	

RSS-Gen 6.3 – External Control		Pass
IC Requirement: The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the limits prescribed in the applicable RSS.		
Results:	The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.	
Verdict:	Pass	

RSS-Gen 8.3 – Antenna Requirement		Pass
IC Requirement: When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer.		
Results:	a) Antenna type: External b) Manufacturer: Pulse-Larson c) Model no: W1010 d) Gain with reference to an isotropic radiator: 2.0 dBi	
Verdict:	Pass	

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PoE supply - Left antenna					
Mode: 2440 MHz Live measurement					
Frequency (MHz)	Quasi-peak (dBµV)	Average (dBµV)	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0.175	34.8	7.9	64.6	54.6	Pass
7.514	43.0	42.5	60.0	50.0	Pass
10.793	41.0	37.2	60.0	50.0	Pass
Mode: 2440 MHz Neutral measurement					
Frequency (MHz)	Quasi-peak (dBµV)	Average (dBµV)	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0.157	37.2	10.2	65.6	55.6	Pass
7.523	43.3	42.8	60.0	50.0	Pass
10.793	41.0	37.4	60.0	50.0	Pass
PoE supply - Right antenna					
Mode: 2440 MHz Live measurement					
Frequency (MHz)	Quasi-peak (dBµV)	Average (dBµV)	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0.157	37.8	10.1	65.6	55.6	Pass
7.523	43.3	42.9	60.0	50.0	Pass
10.793	41.6	37.9	60.0	50.0	Pass
Mode: 2440 MHz Neutral measurement					
Frequency (MHz)	Quasi-peak (dBµV)	Average (dBµV)	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0.158	38.2	10.7	65.5	55.5	Pass
7.523	43.2	42.7	60.0	50.0	Pass
10.793	41.0	37.4	60.0	50.0	Pass
Remarks: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz does not exceed the limits. For test Results plots refer to Appendix 1, page 2.					

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FCC 15.247(b)(3) / RSS-247 5.4 – Maximum Peak Conducted Output Power			Pass
FCC/ IC Requirement: For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt (30dBm)			
Test Specification : ANSI C63.10-2013 Test date : 07.08.2024 – 10.09.2024 Mode of operation : Tx mode Port of testing : 1. Left antenna port 2. Right antenna port Supply voltage : 1. 5 VDC (USB-C), 2. 48 VDC (PoE) Temperature : 23°C Humidity : 65%			
Results: For test protocols please refer to Appendix 1			
USB-C supply - Left antenna			
Frequency (MHz)	Measured Output Power (dBm)	Limit (dBm)	Verdict
2402	3.71	30.0	Pass
2440	3.72	30.0	Pass
2480	3.96	30.0	Pass
USB-C supply - Right antenna			
Frequency (MHz)	Measured Output Power (dBm)	Limit (dBm)	Verdict
2402	3.62	30.0	Pass
2440	3.88	30.0	Pass
2480	3.96	30.0	Pass
PoE supply - Left antenna			
Frequency (MHz)	Measured Output Power (dBm)	Limit (dBm)	Verdict
2402	3.73	30.0	Pass
2440	3.75	30.0	Pass
2480	4.00	30.0	Pass
PoE supply - Right antenna			
Frequency (MHz)	Measured Output Power (dBm)	Limit (dBm)	Verdict
2402	3.66	30.0	Pass
2440	3.92	30.0	Pass
2480	4.01	30.0	Pass

FCC 15.247(e) / RSS-247 5.2 – Power Spectral Density		Pass
FCC/ IC Requirement: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.		
Test Specification : ANSI C63.10-2013 Test date : 07.08.2024 – 14.08.2024 Mode of operation : Tx mode Port of testing : 1. Left antenna port 2. Right antenna port Supply voltage : 1. 5 VDC (USB-C), 2. 48 VDC (PoE) Temperature : 23°C Humidity : 65%		
Results:		As Maximum Peak Conducted Output Power is below 8dBm for all cases, PSD deem to pass. For test protocols refer to Appendix 1

FCC 15.247(d) / RSS-247 5.5 – Spurious Conducted Emissions							Pass
Test Specification : ANSI C63.10-2013 Test date : 07.08.2024 – 14.08.2024 Mode of operation : Tx mode Port of testing : 1. Left antenna port 2. Right antenna port Supply voltage : 1. 5 VDC (USB-C), 2. 48 VDC (PoE) Temperature : 23°C Humidity : 65%							
FCC Requirement: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Only the worst cases is shown below. For test protocols refer to Appendix 1 Reference value from 6dB Bandwidth measurement, appendix 1							
USB-C supply - Left antenna							
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Limit (dBm)	Margin (dB)	Verdict	
2402	No peak found	--	0.95	-19.05	--	Pass	
2440	No peak found	--	1.36	-18.64	--	Pass	
2480	No peak found	--	1.33	-18.67	--	Pass	
USB-C supply - Right antenna							
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Limit (dBm)	Margin (dB)	Verdict	
2402	No peak found	--	3.23	-16.77	--	Pass	
2440	No peak found	--	3.69	-16.31	--	Pass	
2480	No peak found	--	3.68	-16.32	--	Pass	

PoE supply - Left antenna						
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Limit (dBm)	Margin (dB)	Verdict
2402	No peak found	--	-1.41	-18.59	--	Pass
2440	No peak found	--	-0.90	-19.10	--	Pass
2480	No peak found	--	-0.92	-19.08	--	Pass
PoE supply - Right antenna						
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Limit (dBm)	Margin (dB)	Verdict
2402	No peak found	--	-1.57	-18.43	--	Pass
2440	No peak found	--	-1.13	-18.87	--	Pass
2480	No peak found	--	-1.10	-18.90	--	Pass

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Mode: 2440 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	57.1	74.0 / PK	4880.000	46.8	54.0 / AV
7320.000	52.4	74.0 / PK	7320.000	38.6	54.0 / AV
Mode: 2480 MHz TX			Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	56.8	74.0 / PK	2483.500	36.0	54.0 / AV
4960.000	43.6	74.0 / PK	4960.000	29.8	54.0 / AV
7440.000	61.7	74.0 / PK	7440.000	48.2	54.0 / AV
Mode: 2480 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	53.1	74.0 / PK	2483.500	34.0	54.0 / AV
4960.000	59.2	74.0 / PK	4960.000	49.0	54.0 / AV
7440.000	56.1	74.0 / PK	7440.000	42.2	54.0 / AV
USB-C supply - Right antenna					
Mode: 2402 MHz TX			Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	42.2	74.0 / PK	2390.000	27.2	54.0 / AV
2400.000	68.0	74.0 / PK	2400.000	44.1	54.0 / AV
4804.000	45.0	74.0 / PK	4804.000	30.0	54.0 / AV
7206.000	64.8	74.0 / PK	7206.000	51.2	54.0 / AV

Mode: 2402 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	40.0	74.0 / PK	2390.000	26.1	54.0 / AV
2390.000	26.1	54.0 / AV	2400.000	63.1	74.0 / PK
2400.000	63.1	74.0 / PK	2400.000	39.8	54.0 / AV
2400.000	39.8	54.0 / AV	4804.000	59.1	74.0 / PK
4804.000	59.1	74.0 / PK	4804.000	48.9	54.0 / AV
4804.000	48.9	54.0 / AV	7206.000	53.6	74.0 / PK
7206.000	53.6	74.0 / PK	7206.000	40.0	54.0 / AV
7206.000	40.0	54.0 / AV			
Mode: 2440 MHz TX			Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	44.0	74.0 / PK	4880.000	30.2	54.0 / AV
4880.000	30.2	54.0 / AV	7320.000	65.3	74.0 / PK
7320.000	65.3	74.0 / PK	7320.000	51.6	54.0 / AV
7320.000	51.6	54.0 / AV			
Mode: 2440 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	58.9	74.0 / PK	4880.000	48.6	54.0 / AV
4880.000	48.6	54.0 / AV	7320.000	54.0	74.0 / PK
7320.000	54.0	74.0 / PK	7320.000	40.4	54.0 / AV
7320.000	40.4	54.0 / AV			
Mode: 2480 MHz TX			Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	58.1	74.0 / PK	2483.500	37.0	54.0 / AV
2483.500	37.0	54.0 / AV	4960.000	42.8	74.0 / PK
4960.000	42.8	74.0 / PK	4960.000	30.1	54.0 / AV
4960.000	30.1	54.0 / AV	7440.000	43.4	74.0 / PK
7440.000	43.4	74.0 / PK	7440.000	30.3	54.0 / AV
7440.000	30.3	54.0 / AV			
Mode: 2480 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	52.8	74.0 / PK	2483.500	32.3	54.0 / AV
2483.500	32.3	54.0 / AV	4960.000	57.3	74.0 / PK
4960.000	57.3	74.0 / PK	4960.000	47.0	54.0 / AV
4960.000	47.0	54.0 / AV	7440.000	53.0	74.0 / PK
7440.000	53.0	74.0 / PK	7440.000	39.1	54.0 / AV
7440.000	39.1	54.0 / AV			

PoE supply - Left antenna		
Mode: 2402 MHz TX Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	44.3	74.0 / PK
2390.000	28.7	54.0 / AV
2400.000	71.0	74.0 / PK
2400.000	46.8	54.0 / AV
4804.000	44.6	74.0 / PK
4804.000	31.8	54.0 / AV
7206.000	50.5	74.0 / PK
7206.000	36.2	54.0 / AV
Mode: 2402 MHz TX Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	40.4	74.0 / PK
2390.000	27.6	54.0 / AV
2400.000	65.8	74.0 / PK
2400.000	42.0	54.0 / AV
4804.000	43.8	74.0 / PK
4804.000	29.9	54.0 / AV
7206.000	45.4	74.0 / PK
7206.000	37.4	54.0 / AV
Mode: 2440 MHz TX Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	44.2	74.0 / PK
4880.000	31.2	54.0 / AV
7320.000	49.8	74.0 / PK
7320.000	36.4	54.0 / AV
Mode: 2440 MHz TX Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	43.9	74.0 / PK
4880.000	29.3	54.0 / AV
7320.000	45.1	74.0 / PK
7320.000	31.2	54.0 / AV
Mode: 2480 MHz TX Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	60.1	74.0 / PK
2483.500	39.8	54.0 / AV
4960.000	44.2	74.0 / PK
4960.000	31.8	54.0 / AV
7440.000	48.0	74.0 / PK
7440.000	34.2	54.0 / AV

Mode: 2480 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	59.0	74.0 / PK	2483.500	36.0	54.0 / AV
4960.000	43.0	74.0 / PK	4960.000	29.0	54.0 / AV
7440.000	45.8	74.0 / PK	7440.000	36.2	54.0 / AV
PoE supply - Right antenna					
Mode: 2402 MHz TX			Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	45.0	74.0 / PK	2390.000	29.3	54.0 / AV
2400.000	71.4	74.0 / PK	2400.000	48.8	54.0 / AV
4804.000	43.8	74.0 / PK	4804.000	31.0	54.0 / AV
7206.000	53.8	74.0 / PK	7206.000	39.6	54.0 / AV
Mode: 2402 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2390.000	40.6	74.0 / PK	2390.000	26.8	54.0 / AV
2400.000	64.0	74.0 / PK	2400.000	41.0	54.0 / AV
4804.000	43.4	74.0 / PK	4804.000	29.6	54.0 / AV
7206.000	45.0	74.0 / PK	7206.000	32.0	54.0 / AV
Mode: 2440 MHz TX			Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	44.5	74.0 / PK	4880.000	31.1	54.0 / AV
7320.000	50.7	74.0 / PK	7320.000	36.6	54.0 / AV
Mode: 2440 MHz TX			Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m	Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
4880.000	42.8	74.0 / PK	4880.000	29.2	54.0 / AV
7320.000	45.0	74.0 / PK	7320.000	32.1	54.0 / AV

Mode: 2480 MHz TX Vertical Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	58.8	74.0 / PK
2483.500	39.1	54.0 / AV
4960.000	44.1	74.0 / PK
4960.000	31.5	54.0 / AV
7440.000	49.1	74.0 / PK
7440.000	35.0	54.0 / AV
Mode: 2480 MHz TX Horizontal Polarization		
Frequency MHz	Level dBuV/m	Limit/ Detector dBuV/m
2483.500	58.2	74.0 / PK
2483.500	35.0	54.0 / AV
4960.000	43.2	74.0 / PK
4960.000	29.4	54.0 / AV
7440.000	45.8	74.0 / PK
7440.000	33.9	54.0 / AV