



Product Service

2.5 Exposure of Humans to RF Fields

2.5.1 Specification Reference

ISED Canada RSS-GEN Issue 4, section 3.2

2.5.2 Guide

ISED Canada RSS-102 Issue 5, section 2.5 and
ISED Canada SPR-002, Issue 1

2.5.3 Equipment Under Test and Modification State

OLYMPUS SLIDEVIEW VS200, S/N: VS20-BU-L: S/N 1906129191; VS20-LOADER: SN
190718407 - Modification State 1

2.5.4 Date of Test

2019-07-15 and 2019-07-18

2.5.5 Test Method

This test was performed in accordance with ISED Canada RSS-102, Issue 5, chapter 2.5 and ISED
Canada SPR-002, Issue 1, chapter 6.5

Test according to RSS-102 is based on test results according to section **Fehler! Verweisquelle
konnte nicht gefunden werden.** of this report.

Test according to SPR-002 was performed as worst case measurement with direct contact to EUT.

2.5.6 Environmental Conditions

Ambient Temperature	26.0 °C
Relative Humidity	42.0 %



2.5.7 Test Results

$$EIRP = \frac{(FS \cdot D)^2}{30}$$

In accordance with ISED Canada RSS-102, Issue 5, chapter 2.5:

Maximum Radiated Fields Strength: (Scanner, see chapter Fehler! Verweisquelle konnte nicht gefunden werden. of this test report)	68.9 dBμV/m (at 3 m distance and 125 kHz)
Calculated Equivalent Radiated Power:	2.786 mW (e.i.r.p.)
Minimum separation distance:	≤ 5 mm
SAR Evaluation Exemption Limit:	71 mW

In accordance with ISED Canada SPR-002, Issue 1, chapter 6.5:

Test distance:	Direct contact to EUT	
Tested frequency:	125 kHz	
Measured maximum value (Loader):	1.42 V/m	0.0473 A/m
Measured maximum value (Scanner):	58.18 V/m	0.9319 A/m
Limb Exposure Limit:	83 V/m	90 A/m
Relaxation Factor:	1.0	

2.5.8 Test Location and Test Equipment Used

This test was carried out in Semi anechoic room - cabin no. 8 and radio lab.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
EMI test receiver	Rohde & Schwarz	ESW 26	28268	12	2020-06
Loop antenna	Rohde & Schwarz	HFH2-Z2	18876	36	2019-07-31
Electromagnetic radiation meter	EMR-200	AT-0023	19590	36	2019-10-31
Electric field probe	Type 8.3	AU-0008	19591	36	2019-10-31
Magnetic field probe	Type 12.1	W-0018	19592	36	2019-10-31

Table 13

TU - Traceability Unscheduled
 O/P Mon – Output Monitored using calibrated equipment
 N/A - Not Applicable



2.6 SAR exclusion threshold

2.6.1 Specification Reference

KDB 447498 D01 V06, section 4.3.1 c) 2)

2.6.2 Equipment Under Test and Modification State

Model: DAC Universal; Type: MK IV, S/N: 1044 - Modification State 0

2.6.3 Date of Test

2019-04-01

2.6.4 Test Method

Carrier level is based on test result according to section **Fehler! Verweisquelle konnte nicht gefunden werden.** of this report.

2.6.5 Test Result

Maximum Radiated Fields Strength: 68.9 dBμV/m (at 3 m distance and 125 kHz)
(see chapter **Fehler! Verweisquelle konnte nicht gefunden werden.** of this test report)

Calculated Equivalent Radiated Power: 2.786 mW (e.i.r.p.)

Minimum separation distance: ≤ 5 mm (50 mm)

1-g numeric threshold: $(3.0 (1 + \log_{10}(100/0.125)))/2 = 5.85$

SAR test exclusion limit (for 1-g): $5.85 \cdot 50 / \sqrt{(0.1)} = 925 \text{ mW}$

Note 1: For test distances below 5 mm according to 4.3.1 a) the test distance is fixed to 5 mm. However, according to 4.3.1 c), the limit is based on a fixed test distance of 50 mm for test distances smaller than 50 mm at frequencies below 100 MHz.

Note 2: The calculation of the power limit is based on $f = 100 \text{ MHz}$ and $d = 50 \text{ mm}$, however, the correction of the numeric threshold is based on the real frequency of $f = 125 \text{ kHz}$

$$EIRP = \frac{(FS \cdot D)^2}{30}$$
$$Num.Thresh.(f < 100 \text{ MHz}, d < 50 \text{ mm}) = \frac{1}{2} (Num.Thresh. \left(1 + \log_{10} \frac{100 \text{ MHz}}{f} \right))$$
$$P_{lim} = (Num.Thresh.)(d \text{ in mm}) / \sqrt{(f \text{ in GHz})}$$