



Nemko AS

RF Technical Brief Cover Sheet
RF Exposure Compliance
(Annex A & B of RSS-102)

Annex A – RF Technical Brief Cover Sheet

All Fields must be completed with the requested information or the following codes:

N/A – Not Applicable, N/P – Not Performed or N/V – Not Available

Where applicable, check appropriate box.

1. COMPANY NUMBER:	2461N
2. PRODUCT MARKETING NAME (PMN) :	TX2
3. HARDWARE VERSION IDENTIFICATION NO. (HVIN):	P3310
4. FIRMWARE VERSION IDENTIFICATION NO. (FVIN):	N/A
5. HOST MARKETING NAME (HMN):	Cisco Webex Room 70S G2, Cisco Webex Room 70D G2
6. IC CERTIFICATION NUMBER:	2461N-NVTX21737
7. APPLICANT:	Cisco Systems Inc.
8. SAR/RF EXPOSURE TEST LABORATORY:	N/A
9. TYPE OF EVALUATION:	Complete the applicable sections: (a) SAR Evaluation: Device Used in the Vicinity of the Human Head (b) SAR Evaluation: Body-worn Device (c) SAR Evaluation: Limb-Worn Device (d) RF Evaluation Note: The worst-case scenario (i.e. highest measured value obtained) shall be reported.
	(a) SAR Evaluation: Device Used in the Vicinity of the Human Head • Multiple transmitters: Yes <input type="checkbox"/> No <input type="checkbox"/> • Evaluated against exposure limits: General Public Use <input type="checkbox"/> Controlled Use <input type="checkbox"/> • Duty cycle used in evaluation: _____ % • Standard used for evaluation: _____ • SAR value: ____W/kg Measured <input type="checkbox"/> Computed <input type="checkbox"/> Calculated <input type="checkbox"/>
	(b) SAR Evaluation: Body-worn Device and Body-Supported Device • Multiple transmitters: Yes <input type="checkbox"/> No <input type="checkbox"/> • Evaluated against exposure limits: General Public Use <input type="checkbox"/> Controlled Use <input type="checkbox"/> • Duty cycle used in evaluation: _____ % • Standard used for evaluation: _____ • SAR value: ____W/kg Measured <input type="checkbox"/> Computed <input type="checkbox"/> Calculated <input type="checkbox"/>



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	<p>(c) SAR Evaluation: Limb-Worn Device</p> <ul style="list-style-type: none">• Multiple transmitters: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>• Evaluated against exposure limits: General Public Use <input type="checkbox"/> Controlled Use <input type="checkbox"/>• Duty cycle used in evaluation: _____ %• Standard used for evaluation: _____• SAR value: _____ W/kg Measured <input type="checkbox"/> Computed <input type="checkbox"/> Calculated <input type="checkbox"/>
	<p>(d) RF Exposure Evaluation</p> <ul style="list-style-type: none">• Evaluated against exposure limits: General Public Use <input checked="" type="checkbox"/> Controlled Use <input type="checkbox"/>• Duty cycle used in evaluation: _____ see calculation _____ %• Standard used for evaluation: _RSS-102, Issue 5 _____• Measurement distance: _____ 0.20 _____ m• RF Value: _____ 2.42 _____ V/m <input type="checkbox"/> A/m <input type="checkbox"/> W/m² <input checked="" type="checkbox"/> Measured <input type="checkbox"/> Computed <input type="checkbox"/> Calculated <input checked="" type="checkbox"/>



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Annex B – Declaration of RF Exposure Compliance

ATTESTATION: I attest that the information provided in Annex A is correct; that a Technical Brief was prepared and the information it contains is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed and that the device meet the SAR and/or RF exposure limits of RSS-102.

Signature: Frode Sveinsen

Date: 23 July 2018

NAME (Please print or type): Frode Sveinsen

TITLE (Please print or type): Senior Engineer

COMPANY (Please print or type): Nemko AS

In the table below Power and Gain are entered in units of dBm and dBi respectively and conversions to linear forms are used for the calculations.

(MIMO and/or co-located transmitters all with same Power Density Limit, 20 cm MPE distance.

Multiple chain or co-located transmitters								
Band	Mode	Chain for MIMO	Separation Distance (cm)	Output Power (dBm)	Antenna Gain (dBi)	Duty Cycle	EIRP (mW)	Power Density (W/m ²)
2.4 GHz	* BT	n/a		8.65	4.89	76.4%	17.3	
2.4 GHz	** WLAN	0		18.44	5.61	98.7%	250.8	
2.4 GHz	** WLAN	1		18.33	5.69	98.7%	249.1	
5 GHz	** WLAN	2		19.31	9.44	93.5%	701.3	
Combined			20				1218.4	2.42

Legend: * Peak Power Measurement, ** Average Power Measurement

Configurations for Simultaneous Operations

Worst Case Configuration: 2.4GHz WLAN 802.11b/g/n + 5GHz WLAN 802.11a/n/ac + Bluetooth (DSS or BLE)

Power Density is calculated from Maximum Conducted Power and Antenna Gain @20cm. Calculated Power density is with 100% Duty Cycle

RF Function	BT	WLAN Chain 0	WLAN Chain 1	5G WLAN Chain 2	
Frequency (MHz)	2440	2440	2440	5180-5825	Σ of MPE ratios
Calc. Power Density (W/m ²)	0.034	0.499	0.496	1.305	
Requirement (W/m ²)	5.41	5.41	5.41	9.05	
MPE ratio (Power Density/ Requirement)	0.006	0.092	0.092	0.144	0.334