Produkte Products



RF Exposi	ure Stat	ement:	500344	29 002		Seite 1 von 2 Page 1 of 2
Client:		New Japa 1-1, Fukuo	an Radio Co., oka 2-Chome,	, Ltd. , Fujimino City S	aitama, 356-	8510 Japan
Γest item:		K-Band D	oppler Sens	or Module (Mov	vement Sens	sor)
dentification:		NJR4265	RF3			
FCC Require	ement					
According to nust comply specified in F	FCC 2.10 with the f FCC 1.13	093, portable following app 10:	e devices th blicable limit	at transmit at t for maximun	frequencie n permissik	es above 6 GHz ble exposure (MP
	t Use	Frequency	Range	Power Dens	ity A	verage Time [min]
Equipmen						
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o	ulation / Exposure ling to the nent RSS-102 perates a	1.5 – 100 FCC 2.1093 (2 (Issue 5), c bove 6GHz i	OGHz (d), this evalution lause 3, RF regardless of	1.0 [mW/cm uation was con exposure ev of the separat	²] ducted at 5 aluation is tion distance	30 cm distance . required if the ce. Therefore, lim
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o he Table 4 in Equipmen	ulation / Exposure ling to the nent RSS-102 perates a n section t Use	1.5 – 100 FCC 2.1093 (? (Issue 5), c bove 6GHz i 3.2 is applie Frequency	OGHz d), this evalution lause 3, RF regardless of d: Range	1.0 [mW/cm uation was con exposure ev of the separat	^{1²] ducted at 5 aluation is tion distance Power Dens}	30 cm distance. required if the ce. Therefore, lim
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o he Table 4 in Equipmen General Po	ulation / Exposure ling to the nent RSS-102 perates a n section t Use ublic /	1.5 – 100 FCC 2.1093 (2 (Issue 5), c bove 6GHz i 3.2 is applie Frequency	OGHz (d), this evalution lause 3, RF regardless of d: Range	1.0 [mW/cm Juation was con exposure ev of the separat	^{1²]} ducted at 5 aluation is tion distance Power Dens	30 cm distance. required if the ce. Therefore, lim sity
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o he Table 4 in Equipmen General Po Uncontrolled E	ulation / Exposure ling to the nent RSS-102 perates a n section t Use ublic / Exposure	1.5 – 100 FCC 2.1093 (2 (Issue 5), c bove 6GHz i 3.2 is applie Frequency 15000 – 150	OGHz d), this evalu- lause 3, RF regardless of comparison of the second Range	1.0 [mW/cm uation was con exposure ev of the separat 10 [W/	^{1²] ducted at 5 aluation is tion distance Power Dens [m²] (i.e. 1.0 [}	30 cm distance. required if the ce. Therefore, lim sity mW/cm ²])
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o he Table 4 in Equipmen General Pu Uncontrolled E Note: Accordin	ulation / Exposure ling to the nent RSS-102 perates a n section t Use ublic / Exposure ng to spec nt Result m measure	1.5 – 100 FCC 2.1093 (2 (Issue 5), c bove 6GHz i 3.2 is applie Frequency 15000 – 150 ification of the	OGHz (d), this evalution lause 3, RF regardless of d: Range 000MHz e equipment, er field stre	1.0 [mW/cm Jation was con exposure ev of the separat 10 [W/ this evaluation ngth is given	^{1²] ducted at 5 aluation is tion distance m²] (i.e. 1.0 [n was condu}	30 cm distance. required if the ce. Therefore, lim sity (mW/cm²]) ucted at 5cm distar wing table:
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o he Table 4 in Equipmen General Pu Uncontrolled E Note: Accordin Vleasuremen The maximum Measured E-Field Strength	ulation / Exposure ling to the nent RSS-102 perates a n section t Use ublic / Exposure ng to spec nt Result m measure Meas. Distance [m]	1.5 – 100 FCC 2.1093 (2 (Issue 5), c bove 6GHz i 3.2 is applie Frequency 15000 – 150 ification of the red transmitt Evaluated Distance [cm]	OGHz d), this evalution lause 3, RF regardless of d: Range 000MHz e equipment, er field stre Distance Correction Factor	1.0 [mW/cm uation was con exposure ev of the separat 10 [W/ this evaluation ngth is given Calculate Strer E (at s	ducted at 5 aluation is tion distance Power Dens m ²] (i.e. 1.0 [m was condu- in the folloo d E-Field ogth 5cm)	30 cm distance. required if the ce. Therefore, lim sity mW/cm ²]) ucted at 5cm distar wing table: Calculated Power Density S
Equipmen General Pop Uncontrolled E Note: Accord C Requirem According to ransmitter o he Table 4 in Equipmen General Pu Uncontrolled E Note: Accordin Measuremen The maximut Measured E-Field Strength [dBuV/m]	ulation / Exposure ling to the nent RSS-102 perates a n section t Use ublic / Exposure ng to spec nt Result m measure Meas. Distance [m]	1.5 – 100 FCC 2.1093 (2 (Issue 5), c bove 6GHz r 3.2 is applie Frequency 15000 – 150 ification of the red transmitt Evaluated Distance [cm]	OGHz (d), this evalution lause 3, RF regardless of d: Range 000MHz e equipment, er field stre Distance Correction Factor [dB]	1.0 [mW/cm Jation was con exposure evo of the separat 10 [W/ 10 [W/ this evaluation ngth is given Calculate Strev E (at strever)	^{1²] ducted at 5 aluation is tion distance Power Dens m²] (i.e. 1.0 [m was condu- in the follor d E-Field ngth 5cm) [V/m]}	30 cm distance. required if the ce. Therefore, lim sity (mW/cm²]) ucted at 5cm distant wing table: Calculated Power Density S [mW/cm²]

Produkte Products



RF Exposure Statement: 50034429 002

Seite 2 von 2 Page 2 of 2

Note:

Distance Correction Factor = $20 \times \text{Log}_{10} (3 / 0.05) = 35.6 \text{ dB}$

The power density S in mW/cm² is calculated in conjunction with the next formula:

S = E^2 / 3770, Where E = electric field strength in V/m

 $S = 16.2^2 / 3770 = 0.0696 \text{ [mW/cm}^2\text{]}$

Conclusion

This transmitter is specified as a portable device by customer.

SAR evaluation is not required since the transmitter nominal frequency is higher than 6GHz (i.e. 24.125GHz). Therefore, RF exposure evaluation was conducted by the calculations mentioned above.

As a result, calculated Power Density S is below both FCC and IC thresholds at 5cm distance.

For more details, refer to the submitted test report 50034429 001 especially the section 5.2 Radiated measurement.