



Project No.: Report No.: TM-2203000017P TMWK2203000760KR

FCC ID: P4Q-N702

Page: 1 / 19 Rev.: 02

# **RF Exposure Evaluation Report**

## FCC 47 CFR § 2.1091

for

**Connected Digital Recorder** 

Model Name.: N702

Prepared for:

Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan

Prepared by

Compliance Certification Services Inc. Wugu Laboratory No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

Issue Date: September 1, 2022

Note: This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, NIST or any government agencies. The test results in the report only apply to the tested sample.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com.tw/Terms-and-Conditions">http://www.sgs.com.tw/Terms-and-Conditions</a> and, for electronic format documents, subject to Terms and Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com.tw/Terms-and-Conditions">http://www.sgs.com.tw/Terms-and-Conditions</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com.tw/Terms-and-Conditions">http://www.sgs.com.tw/Terms-and-Conditions</a> Attention and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Compliance Certification Services Inc. 程智科技股份有限公司 No.11, Wugong 6th Rd., Wugu Dist., New Taipei City , Taiwan /新北市五股區五工六路 11 號 t:(886-2) 2299-9720 f:(886-2) 2299-9721 www.sgs.com.tw www.ccsrf.com



Page: 2 / 19 Rev.: 02

## **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 15, 2022	Initial Issue	ALL	Allison Chen
01	August 23, 2022	See the following Note Rev.(01)	P.7-8, 10, 12, 14, 16	Allison Chen
02	September 1, 2022	See the following Note Rev.(02)	ALL	Allison Chen

Note: Rev.(01)

1. Added NFC RF exposure evaluation and Simultaneous transmission analysis.

Rev.(02)

1. Added WWAN function RF exposure evaluation and simultaneous transmission analysis.



Page: 3/19 Rev.: 02

## **Table of Contents**

1	ATT	ESTATION OF TEST RESULTS	4
2	TES	T SPECIFICATION, METHODS AND PROCEDURES	5
3	DEV	ICE UNDER TEST (DUT) INFORMATION	6
	3.1	DUT DESCRIPTION	6
	3.2	WIRELESS TECHNOLOGIES	7
4	МАХ	IMUM PERMISSIBLE EXPOSURE	.11
	4.1	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	11
	4.2	MPE CALCULATION METHOD	12
	4.3	MPE EXEMPTION	13
	4.4	MULTIPLE RF SOURCES	14
5	RAD	IO FREQUENCY RADIATION MAX EXPOSURE EVALUATION	.15
6	MPE	EXEMPTION OPTION B	.17
7	SIMU	JLTANEOUS TRANSMISSION ANALYSIS	.18
	7.1	SUM OF THE WI-FI 2.4GHZ & BT & NFC	18
	7.2	SUM OF THE WI-FI 5GHZ & BT & NFC	18
8	FAC	ILITIES	.19



Page: 4 / 19 Rev.: 02

## **1** Attestation of Test Results

Applicant Name	Mitac Digital Technology Corporation		
Model Name	N702		
Applicable Standards	FCC 47 CFR § 2.1091		
	KDB 447498 D04		
	FCC 47 CFR § 1.1307		
FCC 47 CFR § 1.1310			
Published RF exposure KDB procedures			
Receive EUT Date:	June 30, 2022		

Compliance Certification Services Inc., tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainy.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved & Released By:

Sky Zhou Asst. Section Manager Compliance Certification Services Inc.



Page: 5 / 19 Rev.: 02

## 2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1091, the following FCC Published RF exposure  $\underline{\text{KDB}}$  procedures:

- o 447498 D04 Interim General RF Exposure Guidance v01
- o 865664 D02 RF Exposure Reporting v01r02



Page: 6 / 19 Rev.: 02

## **3** Device Under Test (DUT) Information

### 3.1 DUT Description

Product	Connected Digital Recorder		
Trade Name MiTAC, Mio, MAGELLAN, Navman			
Model No.	N702		
Model Discrepancy	Difference of those brand names (list on this report) are just for marketing purpose only.		
Hardware Version	R02		
Software Version	R01		
Sample Stage	Identical prototype		



Page: 7 / 19 Rev.: 02

### 3.2 Wireless Technologies

	Bluetooth: 2402MHz ~ 2480MHz
	🔀 802.11b/g/n HT20: 2412 MHz ~ 2462 MHz
	🔀 802.11n HT40: 2422 MHz ~ 2452MHz
	🔀 802.11a/n HT20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz
	🔀 802.11n HT40: 5190MHz ~ 5230MHz / 5755MHz ~ 5795MHz
	🔀 802.11ac VHT80: 5210MHz / 5775MHz
	🖾 13.56MHz
	🖾 WCDMA Band II: 1852.4MHz ~ 1907.6MHz
	🖾 WCDMA Band IV: 1712.4MHz ~ 1752.6MHz
Frequency bands	⊠ WCDMA Band V: 826.4MHz ~ 846.6MHz
	🖾 LTE Band 2: 1850.0MHz ~ 1910.0MHz
	∐ LTE Band 4: 1710.0MHz ~ 1755.0MHz
	∐ LTE Band 5: 824.0MHz ~ 849.0MHz
	LTE Band 12: 704.0MHz ~ 716.0MHz
	☑ LTE Band 13: 777 MHz ~ 787 MHz
	∐ LTE Band 14: 788 MHz ~ 798 MHz
	🔀 LTE Band 66: 1710 MHz ~ 1780 MHz
	☐ LTE Band 71: 663 MHz ~ 698 MHz
	$\Box$ Occupational/Controlled exposure (S = 5mW/cm2)
Exposure	General Population/Uncontrolled exposure
classification	(S=1mW/cm2 for 1500-100000MHz)
	(E=60.77 V/m, E=824/f V/m for 1.34-30MHz)



Page: 8 / 19 Rev.: 02

	PIFA antenna WIFI 2.4GHz & Bluetooth: Gain: 4.2 dBi WIFI 5GHz: 5150~5250 MHz, Gain: 2.8 dBi 5725~5850 MHz, Gain: 3.3 dBi							
	Bluetooth	Gain :	4.20 dBi	(Numeric g	ain: 2.63)	Worst		
	WIFI 2.4GHz		4.20 dBi		ain: 2.63)	Worst		
	WIFI 5GHz	Gain :	3.30 dBi	(Numeric g	ain: 2.14)	Worst		
	13.56MHz: Loo	op Antenna	<sup>/</sup> Gain: N/A c	IBi				
Antenna Specification	WWAN: Dipole WCDMA Band WCDMA Band WCDMA Band LTE Band 2: 5 LTE Band 4: 5 LTE Band 5: 2 LTE Band 12: LTE Band 13: LTE Band 14: LTE Band 14: LTE Band 66: LTE Band 71:	II: 5.30 dBi IV: 5.20 dBi .20 dBi .20 dBi .50 dBi 1.30 dBi 2.60 dBi 2.60 dBi 5.20 dBi						
	Gain: 5	.30 dBi (N	lumeric gair	n: 3.39)	Worst			
	Gain : 5	.20 dBi (N	lumeric gair	n: 3.31)	Worst			
		•	lumeric gair	,	Worst			
		•	lumeric gair	,	Worst			
	Gain: 1	.30 dBi (N	lumeric gair	n: 1.35)	Worst			



Page: 9/19 Rev.: 02

	ВТ	10.84 dBm	(12.134 mW)
	BLE	1.29 dBm	(12.134 mW) (1.346 mW)
	2.4GHz		
	IEEE 802.11b Mode:	26.36 dBm	(432.514 mW)
	IEEE 802.11g Mode:	24.63 dBm	(290.402 mW)
Maximum	IEEE 802.11n HT 20 Mode:	24.03 dBm 24.56 dBm	(285.759 mW)
Measurement	IEEE 802.11n HT 40 Mode:	24.58 dBm	(287.078 mW)
Average Power	5GHz	24.30 ubiii	
	IEEE 802.11a Mode:	22.56 dBm	(180.506 mW)
	IEEE 802.11n HT 20 Mode:	22.40 dBm	(173.583 mW)
	IEEE 802.11n HT 40 Mode:	22.40 dBm	(172.264 mW)
	IEEE 802.11ac VHT 80 Mode:	22.30 dBm	(131.963 mW)
		21.20 UDIII	(131.903 1110)
	BT	11.00 dBm	(12.589 mW)
	BLE	1.50 dBm	(1.413 mW)
	2.4GHz		
	IEEE 802.11b Mode:	27.00 dBm	(501.187 mW)
	IEEE 802.11g Mode:	25.00 dBm	(316.228 mW)
Maximum	IEEE 802.11n HT 20 Mode:	25.00 dBm	(316.228 mW)
tune up power	IEEE 802.11n HT 40 Mode:	25.00 dBm	(316.228 mW)
	5GHz		, , , , , , , , , , , , , , , , , , ,
	IEEE 802.11a Mode:	23.50 dBm	(223.872 mW)
	IEEE 802.11n HT 20 Mode:	23.00 dBm	(199.526 mW)
	IEEE 802.11n HT 40 Mode:	23.00 dBm	(199.526 mW)
	IEEE 802.11ac VHT 80 Mode:	22.50 dBm	(177.828 mW)
			()
Result Power	13.56MHz 57.98 dBuV/m	(3m)	
		25.00 dBm	(316.228 mW)
	WCDMA IV	25.00 dBm	(316.228 mW)
			· · · · · · · · · · · · · · · · · · ·
		25.00 dBm	(316.228 mW)
Maria	LTE Band 2	25.00 dBm	(316.228 mW)
Maximum Conducted	LTE Band 4	25.00 dBm	(316.228 mW)
Output Power	LTE Band 5	25.00 dBm	(316.228 mW)
	LTE Band 12	25.00 dBm	(316.228 mW)
	LTE Band 13	25.00 dBm	(316.228 mW)
	LTE Band 14	25.00 dBm	(316.228 mW)
	LTE Band 66	25.00 dBm	(316.228 mW)



Page: 10/19 02 Rev.:

#### Notes:

- For more details, please refer to the User's manual of the EUT. 1.
- 2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- Disclaimer: The variant trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test. 3.
- 4. Disclaimer: The WWAN tune up power referred the Max Conducted power referred the module report for RF Exposure assessment purpose, the module report was provided by applicant. The tune up power referred the AVG power of the test report TMWK2203000754KR, TMWK2203000755KR, TMWK2203000756KR and TMWK2203000757KR for RF Exposure assessment purpose.
- 5.
- 6. The NFC power referred the test report TMWK2203000758KR for RF Exposure assessment purpose.



Page: 11 / 19 Rev.: 02

## 4 Maximum Permissible Exposure

## 4.1 Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	* 100	6					
3.0-30	1842/f	4.89/f	* 900/f <sup>2</sup>	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
	(B) Limits for Ger	eral Population/Unco	ntrolled Exposure						
0.3-1.34	614	1.63	* 100	30					
1.34-30	824/f	2.19/f	* 180/f²	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
<u>1,500-100,000</u>			1.0	30					

### Table 1 - Limits for Maximum Permissible Exposure (MPE)



Page: 12 / 19 Rev.: 02

#### 4.2 MPE Calculation Method Calculation

Given  $E = \frac{\sqrt{30 \times P \times G}}{d} \& S = \frac{E^2}{377}$ Where E = Field strength in Volts / meter P = Power in Watts G = Numeric antenna gain d = Distance in meters S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

P(mW) = P(W) / 1000 and

d(cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
Equation 1

Where d = Distance in cm

P = Power in mW

- G = Numeric antenna gain
- S = Power density in mW /  $cm^2$

If, Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$ 

#### Calculation(continued)

Given 
$$R = R_3 + 40 \log(3 / 0.2)$$
 or  $R = R_3 + 40 \log(3 / 0.15) + 40 \log(3 / 0.15)$ 

E = 10((R-12-)/20)

Where E = E field Strength↔

R₃ = Result Power on 3m⊌

R = Result Power on 0.2m or 0.15me



Page: 13 / 19 Rev.: 02

### 4.3 MPE EXEMPTION

- (A) The available maximum time-averaged power is no more than 1 mW
- (B) The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold *Pth* (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). *Pth* is given by:

 $P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$ 

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and  $f$  is in GHz;

and

$$ERP_{20 \ cm} \ (\text{mW}) = \begin{cases} 2040f & 0.3 \ \text{GHz} \le f < 1.5 \ \text{GHz} \\ \\ 3060 & 1.5 \ \text{GHz} \le f \le 6 \ \text{GHz} \end{cases}$$

(C) Using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Single RF Sources Subject to Routine Environmental Evaluation						
RF Source frequency (MHz) Threshold ERP (watts)						
0.3-1.34	1,920 R <sup>2</sup> .					
1.34-30	3,450 R²/f².					
30-300	3.83 R <sup>2</sup> .					
300-1,500	0.0128 R <sup>2</sup> f.					
1,500-100,000 19.2R <sup>2</sup> .						
Note: R is in meters, f is in MHz.						



Page: 14 / 19 Rev.: 02

#### 4.4 Multiple RF sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^{a} \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$



Page: 15 / 19 Rev.: 02

## 5 Radio Frequency Radiation Max Exposure Evaluation

Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$ 

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW /  $cm^2$ 

#### Bluetooth

Mode	Frequency (MHz)	Max Tune-up power(dBm)	Max Tune-up power(mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm2	Power Density in mW/cm2
BT	2480.00	11.00	12.59	4.20	2.63	20.0	0.007	1.000
BLE	2480.00	1.50	1.41	4.20	2.63	20.0	0.001	1.000

#### WIFI 2.4GHz

Mode	Frequency (MHz)	Max Tune-up power(dBm)	Max Tune-up power(mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm2	Power Density in mW/cm2
IEEE 802.11b	2462.00	27.00	501.19	4.20	2.63	20.0	0.262	1.000
IEEE 802.11g	2462.00	25.00	316.23	4.20	2.63	20.0	0.165	1.000
IEEE 802.11n HT 20	2462.00	25.00	316.23	4.20	2.63	20.0	0.165	1.000
IEEE 802.11n HT 40	2452.00	25.00	316.23	4.20	2.63	20.0	0.165	1.000

### WIFI 5GHz

Mode	Frequency (MHz)	Max Tune-up power(dBm)	Max Tune-up power(mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm2	Power Density in mW/cm2
IEEE 802.11a	5825.00	23.50	223.87	3.30	2.14	20.0	0.095	1.000
IEEE 802.11n HT 20	5825.00	23.00	199.53	3.30	2.14	20.0	0.085	1.000
IEEE 802.11n HT 40	5795.00	23.00	199.53	3.30	2.14	20.0	0.085	1.000
IEEE 802.11ac VHT 80	5775.00	22.50	177.83	3.30	2.14	20.0	0.076	1.000

#### **WWAN**

Mode	Frequency (MHz)	Max Tune-up power(dBm)	Max Tune-up power(mW)	G(dBi)	G(num.)	D(cm)	Power Density in mW/cm2	Power Density in mW/cm2
WCDMA II	1910.00	25.00	316.23	5.30	3.39	20.0	0.213	1.000
WCDMA IV	1755.00	25.00	316.23	5.20	3.31	20.0	0.208	1.000
WCDMA V	849.00	25.00	316.23	2.50	1.78	20.0	0.112	0.566
LTE Band 2	1910.00	25.00	316.23	5.30	3.39	20.0	0.213	1.000
LTE Band 4	1755.00	25.00	316.23	5.20	3.31	20.0	0.208	1.000
LTE Band 5	849.00	25.00	316.23	2.50	1.78	20.0	0.112	0.566
LTE Band 12	716.00	25.00	316.23	1.30	1.35	20.0	0.085	0.477
LTE Band 13	787.00	25.00	316.23	2.60	1.82	20.0	0.114	0.525
LTE Band 14	798.00	25.00	316.23	2.60	1.82	20.0	0.114	0.532
LTE Band 66	1780.00	25.00	316.23	5.20	3.31	20.0	0.208	1.000
LTE Band 71	698.00	25.00	316.23	1.30	1.35	20.0	0.085	0.465



Page: 16 / 19 Rev.: 02

Given  $R = R_3 + 40 \log(3 / 0.2)$  or  $R = R_3 + 40 \log(3 / 0.15) =$ 

E = 10<sup>((R-12-)/20)∉</sup>

Where E = E field Strength∉

R₃ = Result Power on 3me

R = Result Power on 0.2m or 0.15m↔

### ŃFC

Mode	Frequency (MHz)	D(m)	Result power (dBuV/m)	Electric Field Strength (V/m)	Limit of Electric Field Strength (V/m)	
NFC	13.56	0.2	57.98	0.18	60.77	



## 6 MPE Exemption Option B

### Bluetooth

Mode	Frequency (MHz)	R(m)	Max Tune-up EIRP(dBm)	Max Tune-up ERP(dBm)	Max Tune-up ERP(mW)	ERP Threshold(mW)	MPE Exemption
BT	2480.00	0.2	15.20	13.05	20.184	3060	Complies
BLE	2480.00	0.2	5.70	3.55	2.265	3060	Complies

#### WIFI 2.4GHz

Mode	Frequency (MHz)	R(m)	Max Tune-up EIRP(dBm)	Max Tune-up ERP(dBm)	Max Tune-up ERP(mW)	ERP Threshold(mW)	MPE Exemption
IEEE 802.11b	2462.00	0.2	31.20	29.05	803.526	3060	Complies
IEEE 802.11g	2462.00	0.2	29.20	27.05	506.991	3060	Complies
IEEE 802.11n HT 20	2462.00	0.2	29.20	27.05	506.991	3060	Complies
IEEE 802.11n HT 40	2452.00	0.2	29.20	27.05	506.991	3060	Complies

#### WIFI 5GHz

Mode	Frequency (MHz)	R(m)	Max Tune-up EIRP(dBm)	Max Tune-up ERP(dBm)	Max Tune-up ERP(mW)	ERP Threshold(mW)	MPE Exemption
	(1911 12)					The shoud (IIII)	Exemption
IEEE 802.11a	5825.00	0.2	26.80	24.65	291.743	3060	Complies
IEEE 802.11n HT 20	5825.00	0.2	26.30	24.15	260.016	3060	Complies
IEEE 802.11n HT 40	5795.00	0.2	26.30	24.15	260.016	3060	Complies
IEEE 802.11ac VHT 80	5775.00	0.2	25.80	23.65	231.739	3060	Complies

#### **WWAN**

Mode	Frequency (MHz)	R(m)	Max Tune-up EIRP(dBm)	Max Tune-up ERP(dBm)	Max Tune-up ERP(mW)	ERP Threshold(mW)	MPE Exemption
WCDMA II	1910.00	0.2	30.30	28.15	653.131	3060	Complies
WCDMA IV	1755.00	0.2	30.20	28.05	638.263	3060	Complies
WCDMA V	849.00	0.2	27.50	25.35	342.768	1732	Complies
LTE Band 2	1910.00	0.2	30.30	28.15	653.131	3060	Complies
LTE Band 4	1755.00	0.2	30.20	28.05	638.263	3060	Complies
LTE Band 5	849.00	0.2	27.50	25.35	342.768	1732	Complies
LTE Band 12	716.00	0.2	26.30	24.15	260.016	1461	Complies
LTE Band 13	787.00	0.2	27.60	25.45	350.752	1605	Complies
LTE Band 14	798.00	0.2	27.60	25.45	350.752	1628	Complies
LTE Band 66	1780.00	0.2	30.20	28.05	638.263	3060	Complies
LTE Band 71	698.00	0.2	26.30	24.15	260.016	1424	Complies

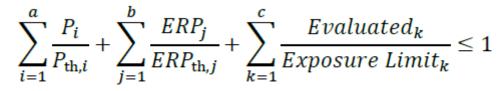


Page: 18 / 19 Rev.: 02

Report No.: TMWK2203000760KR

## 7 Simultaneous Transmission Analysis

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),



#### Simultaneous Transmission Condition

	Item	Capable Transmit Configurations								
<b>RF Exposure Condition</b>	1	WWAN	+	DTS	+	BT	+	NFC		
	2	WWAN	+	U-NII	+	BT	+	NFC		
Notes:										
1. DTS cannot transmit simultaneously with U-NII.										

### 7.1 Sum of the WWAN & Wi-Fi 2.4GHz & BT & NFC

 $(0.114/0.525)+(0.262/1)+(0.007/1)+(0.18/60.77)=0.489 \le 1$ 

### 7.2 Sum of the WWAN & Wi-Fi 5GHz & BT & NFC

 $(0.114/0.525)+(0.095/1)+(0.007/1)+(0.18/60.77)=0.322 \le 1$ 



## 8 Facilities

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

## END OF REPORT

Page: 19 / 19 Rev.: 02