

Report No.: FA911110-03



# RF EXPOSURE EVALUATION REPORT

FCC ID : UZ7CC600

**Equipment**: Customer Concierge

Brand Name : ZEBRA Model Name : CC600

Applicant : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Manufacturer : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1091 and it complies with applicable limit.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

Approved by: Cona Huang / Deputy Manager

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL : 886-3-327-3456 FAX : 886-3-328-4978

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# History of this test report

Report No.: FA911110-03

Report No.	Version	Description	Issued Date
FA911110-03	Rev. 01	Initial issue of report	Nov. 25, 2019

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## 1. Description of Equipment Under Test (EUT)

	Product Feature & Specification
EUT Type	Customer Concierge
Brand Name	ZEBRA
Model Name	CC600
FCC ID	UZ7CC600
Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	WLAN: 802.11a/b/g/n/ac HT20 / HT40 / VHT20 / VHT40 / VHT80 Bluetooth BR/EDR/LE
HW Version	DV
SW Version	01-18-02.00-OG-U00-STD
FW Version	FUSION_QA_2_1.4.0.002_O
MFD	30JUL19
EUT Stage	Engineering sample

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**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Collocation information					
	Brand Name: SIERRA WIRELESS				
WWAN Module	Model Name: MC7455				
	FCC ID: N7NMC7455				
	Brand Name: Intel				
WLAN Module	Model Name: 8265NGW				
	FCC ID: PD98265NG				

Reviewed by: <u>Jason Wang</u> Report Producer: <u>Daisy Peng</u>

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## 2. Maximum RF average output power among production units

#### <MC7455>

M	ode	Maximum Average power(dBm)
	Band II	23.5
WCDMA	Band IV	23.5
	Band V	24
	Band 2	23.5
	Band 4	23.5
	Band 5	24
	Band 7	22.5
LTC	Band 12	24
LTE	Band 13	24
	Band 25	24
	Band 26	24
	Band 30	24
	Band 41	22.5

### <8265NGW>\_\_\_\_\_

Mode	Maximum Average Power (dBm)
2.4GHz WLAN	20
5GHz WLAN	20
Bluetooth	12

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<CC600>

	Average power (dBm)				
Mode	BR / EDR				
	1Mbps	2Mbps	3Mbps		
Tune-up Limit	0	-3	-3		

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#### <Non-beamforming mode>

	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		1	2412	21.00	21.00	23.00
	802.11b 1Mbps	6	2437	21.00	21.00	22.00
		11	2462	20.00	20.00	22.00
		1	2412	19.00	18.00	20.00
	802.11g 6Mbps	6	2437	18.00	19.00	22.00
		11	2462	17.00	17.00	19.00
2.4GHz WLAN	802.11n-HT20 MCS0	1	2412	17.00	17.00	19.00
2.40112 1111		6	2437	18.00	19.00	21.00
		11	2462	16.00	16.00	18.00
	802.11n-HT40 MCS0	3	2422	16.00	15.00	17.00
		6	2437	15.00	16.00	18.00
		9	2452	14.00	15.00	16.00
	000 44 \\	1	2412	17.00	17.00	19.00
	802.11ac-VHT20 MCS0	6	2437	18.00	18.00	21.00
	IVIOOU	11	2462	16.00	17.00	18.00
	000.44	3	2422	16.00	15.00	17.00
	802.11ac-VHT40 MCS0	6	2437	15.00	16.00	18.00
	IVIOOU	9	2452	14.00	15.00	16.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		36	5180	20.00	19.00	20.00
	902 11a 6Mbpa	40	5200	19.00	19.00	20.00
	802.11a 6Mbps	44	5220	19.00	19.00	20.00
		48	5240	19.00	19.00	20.00
	802.11n-HT20 MCS0	36	5180	19.00	18.00	21.00
		40	5200	19.00	19.00	21.00
5.2GHz WLAN		44	5220	19.00	19.00	21.00
		48	5240	19.00	18.00	21.00
	802.11n-HT40 MCS0	38	5190	16.00	18.00	19.00
		46	5230	19.00	19.00	22.00
	802.11ac-VHT20 MCS0	36	5180	18.00	18.00	21.00
		40	5200	18.00	18.00	21.00
		44	5220	18.00	18.00	21.00
		48	5240	18.00	18.00	21.00
	802.11ac-VHT40	38	5190	16.00	18.00	19.00
	MCS0	46	5230	19.00	19.00	22.00
	802.11ac-VHT80 MCS0	42	5210	15.00	18.00	16.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		52	5260	19.00	19.00	20.00
	000 44a CMbaa	56	5280	19.00	19.00	20.00
	802.11a 6Mbps	60	5300	19.00	19.00	20.00
		64	5320	19.00	20.00	20.00
	802.11n-HT20 MCS0	52	5260	19.00	19.00	21.00
		56	5280	19.00	19.00	21.00
5.3GHz WLAN		60	5300	19.00	19.00	20.00
		64	5320	19.00	19.00	21.00
	802.11n-HT40 MCS0	54	5270	19.00	19.00	23.00
		62	5310	15.00	15.00	17.00
	802.11ac-VHT20	52	5260	19.00	19.00	21.00
		56	5280	19.00	19.00	20.00
	MCS0	60	5300	19.00	18.00	20.00
		64	5320	19.00	18.00	21.00
	802.11ac-VHT40	54	5270	19.00	19.00	23.00
	MCS0	62	5310	15.00	15.00	17.00
	802.11ac-VHT80 MCS0	58	5290	14.00	13.00	11.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		100	5500	20.00	19.00	19.00
		116	5580	20.00	20.00	19.00
	902 44a 6Mbna	124	5620	20.00	20.00	19.00
	802.11a 6Mbps	132	5660	20.00	20.00	19.00
		140	5700	20.00	21.00	19.00
		144	5720	20.00	20.00	19.00
		100	5500	18.00	19.00	19.00
		116	5580	20.00	20.00	19.00
	802.11n-HT20 MCS0	124	5620	20.00	20.00	19.00
	602.1111-H120 MCS0	132	5660	20.00	20.00	19.00
		140	5700	18.00	18.00	19.00
		144	5720	20.00	20.00	19.00
	802.11n-HT40 MCS0	102	5510	19.00	17.00	20.00
5.5GHz WLAN		110	5550	21.00	20.00	22.00
0.00112112111		126	5630	21.00	20.00	22.00
		134	5670	21.00	20.00	22.00
		142	5710	21.00	20.00	22.00
	802.11ac-VHT20	100	5500	18.00	18.00	19.00
		116	5580	20.00	19.00	19.00
		124	5620	20.00	19.00	19.00
	MCS0	132	5660	20.00	19.00	19.00
		140	5700	18.00	18.00	19.00
		144	5720	20.00	20.00	19.00
		102	5510	19.00	17.00	20.00
		110	5550	21.00	20.00	22.00
	802.11ac-VHT40 MCS0	126	5630	21.00	20.00	22.00
		134	5670	21.00	20.00	22.00
		142	5710	20.00	20.00	22.00
	00044	106	5530	19.00	14.00	18.00
	802.11ac-VHT80 MCS0	122	5610	20.00	20.00	22.00
		138	5690	20.00	19.00	22.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		149	5745	21.00	20.00	23.00
	802.11a 6Mbps	157	5785	21.00	20.00	23.00
		165	5825	21.00	21.00	23.00
	802.11n-HT20 MCS0	149	5745	21.00	20.00	23.00
		157	5785	21.00	20.00	22.00
5.8GHz WLAN		165	5825	21.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	21.00	20.00	23.00
		159	5795	21.00	20.00	23.00
	802.11ac-VHT20 MCS0	149	5745	21.00	20.00	23.00
		157	5785	21.00	20.00	22.00
		165	5825	21.00	20.00	23.00
	802.11ac-VHT40	151	5755	21.00	20.00	23.00
	MCS0	159	5795	21.00	20.00	23.00
	802.11ac-VHT80 MCS0	155	5775	21.00	19.00	23.00

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#### <Beamforming mode>

	Mode	Channel	Frequency (MHz)	Ant 1+2 Tune-up Limit
		1	2412	21.00
2.4GHz WLAN	802.11ac-VHT20 MCS0	6	2437	21.00
		11	2462	20.00
		3	2422	16.00
	802.11ac-VHT40 MCS0	6	2437	19.00
		9	2452	17.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		36	5180	20.00	19.00	20.00
	902 11a 6Mbpa	40	5200	19.00	19.00	20.00
	802.11a 6Mbps	44	5220	19.00	19.00	20.00
		48	5240	19.00	19.00	20.00
		36	5180	19.00	18.00	21.00
	802.11n-HT20 MCS0	40	5200	19.00	18.00	21.00
5.2GHz WLAN	802.1111-11120 MC30	44	5220	19.00	19.00	21.00
		48	5240	19.00	18.00	21.00
	802.11n-HT40 MCS0	38	5190	16.00	18.00	19.00
	002.1111-H140 MC30	46	5230	19.00	19.00	22.00
		36	5180	18.00	18.00	19.00
	802.11ac-VHT20	40	5200	18.00	18.00	19.00
	MCS0	44	5220	18.00	18.00	19.00
		48	5240	18.00	18.00	15.00
	802.11ac-VHT40	38	5190	16.00	18.00	21.00
	MCS0	46	5230	19.00	19.00	22.00
	802.11ac-VHT80 MCS0	42	5210	15.00	18.00	19.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		52	5260	19.00	19.00	20.00
	902 11a 6Mbpa	56	5280	19.00	19.00	20.00
	802.11a 6Mbps	60	5300	19.00	19.00	20.00
		64	5320	19.00	20.00	20.00
		52	5260	19.00	19.00	21.00
	802.11n-HT20 MCS0	56	5280	19.00	19.00	21.00
5.3GHz WLAN	602.1111-H120 MC30	60	5300	19.00	19.00	20.00
		64	5320	19.00	19.00	21.00
	802.11n-HT40 MCS0	54	5270	19.00	19.00	23.00
	602.1111-H140 MC30	62	5310	15.00	18.00	17.00
		52	5260	19.00	19.00	18.00
	802.11ac-VHT20	56	5280	19.00	19.00	18.00
	MCS0	60	5300	19.00	18.00	18.00
		64	5320	19.00	18.00	18.00
	802.11ac-VHT40 MCS0	54	5270	19.00	19.00	20.00
		62	5310	15.00	18.00	19.00
	802.11ac-VHT80 MCS0	58	5290	15.00	16.00	16.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		100	5500	20.00	20.00	19.00
	802.11a 6Mbps	116	5580	20.00	20.00	19.00
		124	5620	20.00	20.00	19.00
		132	5660	20.00	20.00	19.00
		140	5700	20.00	21.00	19.00
		144	5720	20.00	20.00	19.00
		100	5500	20.00	20.00	19.00
		116	5580	20.00	20.00	19.00
	802.11n-HT20 MCS0	124	5620	20.00	20.00	19.00
	002.1111-H120 WC30	132	5660	20.00	20.00	19.00
		140	5700	18.00	20.00	19.00
		144	5720	20.00	20.00	19.00
		102	5510	19.00	19.00	20.00
5.5GHz WLAN		110	5550	21.00	20.00	22.00
	802.11n-HT40 MCS0	126	5630	21.00	20.00	22.00
		134	5670	21.00	20.00	22.00
		142	5710	21.00	20.00	22.00
		100	5500	20.00	20.00	18.00
		116	5580	20.00	19.00	18.00
	802.11ac-VHT20	124	5620	20.00	20.00	19.00
	MCS0	132	5660	20.00	20.00	19.00
		140	5700	18.00	20.00	19.00
		144	5720	20.00	20.00	19.00
		102	5510	19.00	19.00	20.00
	000 44 1/1/746	110	5550	21.00	20.00	21.00
	802.11ac-VHT40 MCS0	126	5630	21.00	20.00	20.00
	IVICOU	134	5670	21.00	20.00	20.00
		142	5710	20.00	20.00	20.00
	000.44	106	5530	19.00	19.00	19.00
	802.11ac-VHT80 MCS0	122	5610	20.00	20.00	21.00
	IVICOU	138	5690	20.00	19.00	19.00

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	Mode	Channel	Frequency (MHz)	Ant 1 Tune-up Limit	Ant 2 Tune-up Limit	Ant 1+2 Tune-up Limit
		149	5745	21.00	20.00	23.00
	802.11a 6Mbps	157	5785	21.00	20.00	23.00
		165	5825	21.00	21.00	23.00
		149	5745	21.00	20.00	23.00
	802.11n-HT20 MCS0	157	5785	21.00	20.00	22.00
5.8GHz WLAN		165	5825	21.00	20.00	23.00
	802.11n-HT40 MCS0	151	5755	21.00	20.00	23.00
	602.1111-H140 WC50	159	5795	21.00	20.00	23.00
	000.44	149	5745	21.00	20.00	22.00
	802.11ac-VHT20 MCS0	157	5785	21.00	20.00	22.00
	WIOOO	165	5825	21.00	20.00	22.00
	802.11ac-VHT40	151	5755	21.00	20.00	22.00
	MCS0	159	5795	21.00	20.00	22.00
	802.11ac-VHT80 MCS0	155	5775	21.00	20.00	22.00

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## 3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
800 St.	(A) Limits for O	ccupational/Controlled Expos	sures	W
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/1	f *(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled I	Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/	f 2.19/1	f *(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

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### 4. Radio Frequency Radiation Exposure Evaluation

#### 4.1. Standalone Power Density Calculation

### <MC7455>

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
WCDMA Band 2	1852.4	3.00	23.50	26.500	0.447	446.684	0.089	1.000	0.0889
WCDMA Band 4	1712.4	3.00	23.50	26.500	0.447	446.684	0.089	1.000	0.0889
WCDMA Band 5	826.4	0.00	24.00	24.000	0.251	251.189	0.050	0.551	0.0908
LTE Band 2	1850.7	3.00	23.50	26.500	0.447	446.684	0.089	1.000	0.0889
LTE Band 4	1710.7	3.00	23.50	26.500	0.447	446.684	0.089	1.000	0.0889
LTE Band 5	824.7	0.00	24.00	24.000	0.251	251.189	0.050	0.550	0.0909
LTE Band 7	2500.0	3.00	22.50	25.500	0.355	354.813	0.071	1.000	0.0706
LTE Band 12	699.7	0.00	24.00	24.000	0.251	251.189	0.050	0.466	0.1072
LTE Band 13	779.5	0.00	24.00	24.000	0.251	251.189	0.050	0.520	0.0962
LTE Band 26	814.7	0.00	24.00	24.000	0.251	251.189	0.050	0.543	0.0921
LTE Band 25	1850.7	3.00	24.00	27.000	0.501	501.187	0.100	1.000	0.0998
LTE Band 30	2305.0	3.00	24.00	27.000	0.501	501.187	0.100	1.000	0.0998
LTE Band 41	2496.0	3.00	22.50	25.500	0.355	354.813	0.071	1.000	0.0706

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Note: For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band

#### <8265NGW>

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit		
2.4GHz WLAN	2412.0	2.30	20.00	22.300	0.170	169.824	0.034	1.000	0.0338		
5GHz WLAN	5180.0	2.30	20.00	22.300	0.170	169.824	0.034	1.000	0.0338		
Bluetooth	2402.0	1.60	12.00	13.600	0.023	22.909	0.005	1.000	0.0046		

Note: For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band

#### <CC600>

#### <Non-beamforming mode>

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
2.4GHz WLAN	2412.0	2.30	23.00	25.300	0.339	338.844	0.067	1.000	0.0674
5GHz WLAN	5180.0	2.30	23.00	25.300	0.339	338.844	0.067	1.000	0.0674
Bluetooth	2402.0	1.60	0.00	1.600	0.001	1.445	0.000	1.000	0.0003

Note: For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band

#### <Beamforming mode>

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)	Power Density / Limit
2.4GHz WLAN	2412.0	2.30	21.00	23.300	0.214	213.796	0.043	1.000	0.0426
5GHz WLAN	5180.0	2.30	23.00	25.300	0.339	338.844	0.067	1.000	0.0674

#### Note:

- 1. For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.
- 2. This device supports Beamforming for WLAN 2.4GHz VHT20/VHT40 and WLAN 5GHz a/n/ac HT20 / HT40 / VHT20 / VHT40 / VHT80 only; therefore, in the table above which consider maximum directional Gain 2.3dBi for WLAN 2.4GHz Beamforming mode and 2.3dBi for WLAN 5GHz Beamforming mode.

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### 4.2. Collocated Power Density Calculation

WWAN	WLAN	Bluetooth	$\Sigma$ (Power Density / Limit) of WWAN+WLAN+Bluetooth
Power Density / Limit	Power Density / Limit	Power Density / Limit	
0.1072	0.0674	0.0046	0.1792

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#### Note:

- For colocation analysis, LTE Band 12 is chosen for summation due to the highest (power density/limit) among all WWAN wireless modes.
- 2.  $\Sigma$  (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + WLAN + Bluetooth.
- 3. Considering the WWAN module collocation with the WLAN and Bluetooth transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant

### **Conclusion:**

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

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