

RF Exposure Evaluation

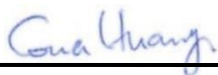
(Mobile Condition)

FCC ID : A4RGTT9Q
Equipment : Phone
Model Name : GTT9Q, G5NZ6
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
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 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

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History of this test report

Report No.	Version	Description	Issued Date
FA011719-01B	Rev. 01	Initial issue of report	Jul. 23, 2020



1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
Equipment Name	Phone
Model Name	GTT9Q, G5NZ6
FCC ID	A4RGTT9Q
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz CDMA 2000 BC10: 817.9 MHz ~ 823.1 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2472 MHz WLAN 5.2GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8GHz Band: 5725 MHz ~ 5825 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz WPT: 110KHz ~ 148.5KHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC/WPT: ASK

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

Reviewed by: Jason Wang

Report Producer: Daisy Peng



2. Maximum Tune-up Limit

General Note:

1. For each cellular band, the device has several WWAN antennas, the antenna selection is based on the connection quality condition, and only one antenna will transmit at a time.
2. The maximum power of the WWAN antenna will be selected to evaluate the power density

<WWAN Maximum Power>

Config0			Maximum Transmit Power Level (dBm)
Radio Tech	Band Number	Antenna name	DSI_0
			Default
GSM1Tx	850	ANT0	33.7
GSM2Tx	850	ANT0	32.0
GSM3Tx	850	ANT0	31.0
GSM4Tx	850	ANT0	30.0
GSM1Tx	1900	ANT2	31.0
GSM2Tx	1900	ANT2	29.5
GSM3Tx	1900	ANT2	29.0
GSM4Tx	1900	ANT2	28.0
WCDMA AMR/RMC	B2	ANT2	25.0
WCDMA HSDPA/HSPA	B2	ANT2	24.0
WCDMA AMR/RMC	B4	ANT2	25.0
WCDMA HSDPA/HSPA	B4	ANT2	24.0
WCDMA AMR/RMC	B5	ANT0	25.0
WCDMA HSDPA/HSPA	B5	ANT0	24.0
CDMA	BC0	ANT0	25.0
CDMA	BC1	ANT2	25.0
CDMA	BC10	ANT0	25.0
LTE	B2	ANT2	25.0
LTE	B4	ANT2	25.0
LTE	B5	ANT0	25.0
LTE	B7	ANT2	25.0
LTE	B12	ANT0	25.0
LTE	B13	ANT0	25.0
LTE	B14	ANT0	25.0
LTE	B17	ANT0	25.0
LTE	B25	ANT2	25.0
LTE	B26	ANT0	25.0
LTE	B30	ANT2	25.0
LTE	B38	ANT2	25.0
LTE	B38_HPUE	ANT2	27.5
LTE	B41	ANT2	25.0
LTE	B41_HPUE	ANT2	27.5
LTE	B48	ANT7	25.0
LTE	B66	ANT2	25.0
LTE	B71	ANT0	25.0
5G FR1	N2	ANT2	25.0
5G FR1	N5	ANT0	25.0
5G FR1	N7	ANT2	25.0
5G FR1	N12	ANT0	25.0
5G FR1	N25	ANT2	25.0
5G FR1	N41	ANT2	25.0
5G FR1	N41_HPUE	ANT5	27.5
5G FR1	N66	ANT2	25.0
5G FR1	N71	ANT0	25.0



Config1			Maximum Transmit Power Level (dBm)
Radio Tech	Band Number	Antenna name	DSI_0
			Default
WCDMA AMR/RMC	B2	ANT0	25.0
WCDMA HSDPA/HSPA	B2	ANT0	24.0
WCDMA AMR/RMC	B4	ANT0	25.0
WCDMA HSDPA/HSPA	B4	ANT0	24.0
WCDMA AMR/RMC	B5	ANT1	25.0
WCDMA HSDPA/HSPA	B5	ANT1	24.0
CDMA	BC0	ANT1	25.0
CDMA	BC1	ANT0	25.0
CDMA	BC10	ANT1	25.0
LTE	B2	ANT0	25.0
LTE	B4	ANT0	25.0
LTE	B5	ANT1	25.0
LTE	B7	ANT0	25.0
LTE	B12	ANT1	25.0
LTE	B13	ANT1	25.0
LTE	B14	ANT1	25.0
LTE	B17	ANT1	25.0
LTE	B25	ANT0	25.0
LTE	B26	ANT1	25.0
LTE	B30	ANT0	25.0
LTE	B38	ANT0	25.0
LTE	B38_HPUE	ANT0	27.5
LTE	B41	ANT0	25.0
LTE	B41_HPUE	ANT0	27.5
LTE	B48	ANT2	23.5
LTE	B66	ANT0	25.0
LTE	B71	ANT1	25.0
5G FR1	N2	ANT0	25.0
5G FR1	N5	ANT1	25.0
5G FR1	N7	ANT0	25.0
5G FR1	N12	ANT1	25.0
5G FR1	N25	ANT0	25.0
5G FR1	N41	ANT0	25.0
5G FR1	N66	ANT0	25.0
5G FR1	N71	ANT1	25.0

**<WLAN Maximum Power>****<2.4GHz WLAN>**

Transmit Antenna				SISO	SISO	MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Tune-Up Limit	Ant 3 Tune-Up Limit	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
2.4GHz WLAN	802.11b 1Mbps	1	2412	23	23	23	23	26
		6	2437	23	23	23	23	26
		11	2462	23	23	23	23	26
		12	2467	18.5	18.5	18.5	18.5	21.5
		13	2472	14	14	14	14	17
	802.11g 6Mbps	1	2412	18.5	18.5	18.5	18.5	21.5
		6	2437	22	22	22	22	25
		11	2462	18	18	18	18	21
		12	2467	12.5	12.5	12.5	12.5	15.5
		13	2472	2	-2	2	-2	3.5
	802.11n-HT20 MCS0	1	2412	18	18	18	18	21
		6	2437	22.5	22.5	22.5	22.5	25.5
		11	2462	17.5	17.5	17.5	17.5	20.5
		12	2467	10.5	10.5	10.5	10.5	13.5
		13	2472	2	-2	2	-2	3.5
	802.11ac-VHT20 MCS0	1	2412	18	18	18	18	21
		6	2437	22.5	22.5	22.5	22.5	25.5
		11	2462	17.5	17.5	17.5	17.5	20.5
		12	2467	10.5	10.5	10.5	10.5	13.5
		13	2472	2	-2	2	-2	3.5

<5GHz WLAN>

Transmit Antenna				SISO	SISO	MIMO		
	Mode	Channel	Frequency (MHz)	Ant 4 Tune-Up Limit	Ant 3 Tune-Up Limit	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.5	18.5	18.5	18.5	21.5
		40	5200	18.5	18.5	18.5	18.5	21.5
		44	5220	18.5	18.5	18.5	18.5	21.5
		48	5240	17.5	17.5	17.5	17.5	20.5
	802.11n-HT20 MCS0	36	5180	18.5	18.5	18.5	18.5	21.5
		40	5200	18.5	18.5	18.5	18.5	21.5
		44	5220	18.5	18.5	18.5	18.5	21.5
		48	5240	18.5	18.5	18.5	18.5	21.5
	802.11n-HT40 MCS0	38	5190	13	13	13	13	16
		46	5230	21	21	21	21	24
	802.11ac-VHT20 MCS0	36	5180	18.5	18.5	18.5	18.5	21.5
		40	5200	18.5	18.5	18.5	18.5	21.5
		44	5220	18.5	18.5	18.5	18.5	21.5
		48	5240	18.5	18.5	18.5	18.5	21.5
	802.11ac-VHT40 MCS0	38	5190	13	13	13	13	16
		46	5230	21	21	21	21	24
	802.11ac-VHT80 MCS0	42	5210	12.5	12.5	12.5	12.5	15.5



Transmit Antenna				SISO	SISO	MIMO		
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-Up Limit	Ant 3 Tune-Up Limit	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	52	5260	17.5	17.5	17.5	17.5	20.5
		56	5280	17.5	17.5	17.5	17.5	20.5
		60	5300	17.5	17.5	17.5	17.5	20.5
		64	5320	17.5	17.5	17.5	17.5	20.5
	802.11n-HT20 MCS0	52	5260	18	18	18	18	21
		56	5280	18	18	18	18	21
		60	5300	18	18	18	18	21
		64	5320	18	18	18	18	21
	802.11n-HT40 MCS0	54	5270	21	21	21	21	24
		62	5310	13.5	13.5	13.5	13.5	16.5
	802.11ac-VHT20 MCS0	52	5260	18	18	18	18	21
		56	5280	18	18	18	18	21
		60	5300	18	18	18	18	21
		64	5320	18	18	18	18	21
	802.11ac-VHT40 MCS0	54	5270	21	21	21	21	24
		62	5310	13.5	13.5	13.5	13.5	16.5
	802.11ac-VHT80 MCS0	58	5290	12	12	12	12	15

Transmit Antenna				SISO	SISO	MIMO		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-Up Limit	Ant 3 Tune-Up Limit	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	100	5500	18	18	18	18	21
		116	5580	18	18	18	18	21
		124	5620	18	18	18	18	21
		132	5660	18	18	18	18	21
		140	5700	18	18	18	18	21
		144	5720	18	18	18	18	21
	802.11n-HT20 MCS0	100	5500	18	18	18	18	21
		116	5580	18	18	18	18	21
		124	5620	18	18	18	18	21
		132	5660	18	18	18	18	21
		140	5700	18	18	18	18	21
		144	5720	18	18	18	18	21
	802.11n-HT40 MCS0	102	5510	16	16	16	16	19
		110	5550	21	21	21	21	24
		126	5630	21	21	21	21	24
		134	5670	21	21	21	21	24
		142	5710	21	21	21	21	24
		144	5720	21	21	21	21	24
	802.11ac-VHT20 MCS0	100	5500	18	18	18	18	21
		116	5580	18	18	18	18	21
		124	5620	18	18	18	18	21
		132	5660	18	18	18	18	21
		140	5700	18	18	18	18	21
		144	5720	18	18	18	18	21
	802.11ac-VHT40 MCS0	102	5510	16	16	16	16	19
		110	5550	21	21	21	21	24
		126	5630	21	21	21	21	24
		134	5670	21	21	21	21	24
		142	5710	21	21	21	21	24
		144	5720	21	21	21	21	24
	802.11ac-VHT80 MCS0	106	5530	13	13	13	13	16
		122	5610	21	21	21	21	24
		138	5690	21	21	21	21	24

Transmit Antenna				SISO	SISO	MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4 Tune-Up Limit	Ant 3 Tune-Up Limit	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	149	5745	21	21	21	21	24
		157	5785	21	21	21	21	24
		165	5825	21	21	21	21	24
	802.11n-HT20 MCS0	149	5745	21	21	21	21	24
		157	5785	21	21	21	21	24
		165	5825	21	21	21	21	24
	802.11n-HT40 MCS0	151	5755	21	21	21	21	24
		159	5795	21	21	21	21	24
	802.11ac-VHT20 MCS0	149	5745	21	21	21	21	24
		157	5785	21	21	21	21	24
		165	5825	21	21	21	21	24
	802.11ac-VHT40 MCS0	151	5755	21	21	21	21	24
		159	5795	21	21	21	21	24
	802.11ac-VHT80 MCS0	155	5775	21	21	21	21	24

<Bluetooth Maximum Power>

Mode	Average power (dBm)				
	BR / EDR			LE	
	1Mbps	2Mbps	3Mbps	1Mbps	2Mbps
Tune-up Limit	19.50	19.50	19.50	19.50	19.50



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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	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



4. Radio Frequency Radiation Exposure Evaluation

4.1. Power Density Calculation

Band	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
GSM 850 (1 Tx slot)	-3.60	33.70	30.100	1.023	128.825	0.026	0.549	0.047
GPRS 850 (1 Tx slot)	-3.60	33.70	30.100	1.023	128.825	0.026	0.549	0.047
GPRS 850 (2 Tx slots)	-3.60	32.00	28.400	0.692	173.780	0.035	0.549	0.063
GPRS 850 (3 Tx slots)	-3.60	31.00	27.400	0.550	206.063	0.041	0.549	0.075
GPRS 850 (4 Tx slots)	-3.60	30.00	26.400	0.437	218.776	0.044	0.549	0.079
EGPRS 850 (1 Tx slot)	-3.60	28.00	24.400	0.275	34.674	0.007	0.549	0.013
EGPRS 850 (2 Tx slots)	-3.60	27.00	23.400	0.219	54.954	0.011	0.549	0.020
EGPRS 850 (3 Tx slots)	-3.60	27.00	23.400	0.219	82.035	0.016	0.549	0.030
EGPRS 850 (4 Tx slots)	-3.60	25.00	21.400	0.138	69.183	0.014	0.549	0.025
GSM 1900 (1 Tx slot)	0.00	31.00	31.000	1.259	158.489	0.032	1.000	0.032
GPRS 1900 (1 Tx slot)	0.00	31.00	31.000	1.259	158.489	0.032	1.000	0.032
GPRS 1900 (2 Tx slots)	0.00	29.50	29.500	0.891	223.872	0.045	1.000	0.045
GPRS 1900 (3 Tx slots)	0.00	29.00	29.000	0.794	297.852	0.059	1.000	0.059
GPRS 1900 (4 Tx slots)	0.00	28.00	28.000	0.631	316.228	0.063	1.000	0.063
EGPRS 1900 (1 Tx slot)	0.00	27.00	27.000	0.501	63.096	0.013	1.000	0.013
EGPRS 1900 (2 Tx slots)	0.00	26.00	26.000	0.398	100.000	0.020	1.000	0.020
EGPRS 1900 (3 Tx slots)	0.00	25.00	25.000	0.316	118.577	0.024	1.000	0.024
EGPRS 1900 (4 Tx slots)	0.00	24.00	24.000	0.251	125.893	0.025	1.000	0.025
WCDMA Band 2	0.00	25.00	25.000	0.316	316.228	0.063	1.000	0.063
WCDMA Band 4	-0.80	25.00	24.200	0.263	263.027	0.052	1.000	0.052
WCDMA Band 5	-3.60	25.00	21.400	0.138	138.038	0.027	0.551	0.050
CDMA2000 BC0	-3.60	25.00	21.400	0.138	138.038	0.027	0.550	0.050
CDMA2000 BC1	0.00	25.00	25.000	0.316	316.228	0.063	1.000	0.063
CDMA2000 BC10	-4.40	25.00	20.600	0.115	114.815	0.023	0.545	0.042
LTE Band 2	0.00	25.00	25.000	0.316	316.228	0.063	1.000	0.063
LTE Band 4	-0.80	25.00	24.200	0.263	263.027	0.052	1.000	0.052
LTE Band 5	-3.60	25.00	21.400	0.138	138.038	0.027	0.550	0.050
LTE Band 7	-2.40	25.00	22.600	0.182	181.970	0.036	1.000	0.036
LTE Band 12	-5.20	25.00	19.800	0.095	95.499	0.019	0.466	0.041
LTE Band 13	-5.40	25.00	19.600	0.091	91.201	0.018	0.520	0.035
LTE Band 14	-5.40	25.00	19.600	0.091	91.201	0.018	0.527	0.034
LTE Band 17	-4.60	25.00	20.400	0.110	109.648	0.022	0.471	0.046
LTE Band 25	0.00	25.00	25.000	0.316	316.228	0.063	1.000	0.063
LTE Band 26	-3.60	25.00	21.400	0.138	138.038	0.027	0.550	0.050
LTE Band 30	-0.70	25.00	24.300	0.269	269.153	0.054	1.000	0.054
LTE Band 38	-1.50	25.00	23.500	0.224	223.872	0.045	1.000	0.045
LTE Band 38 HPUE	-1.50	27.50	26.000	0.398	398.107	0.079	1.000	0.079
LTE Band 41	-1.50	25.00	23.500	0.224	223.872	0.045	1.000	0.045
LTE Band 41 HPUE	-1.50	27.50	26.000	0.398	398.107	0.079	1.000	0.079
LTE Band 48	-1.20	25.00	23.800	0.240	239.883	0.048	1.000	0.048
LTE Band 66	-0.80	25.00	24.200	0.263	263.027	0.052	1.000	0.052
LTE Band 71	-5.30	25.00	19.700	0.093	93.325	0.019	0.444	0.042
5G NR n2	0.00	25.00	25.000	0.316	316.228	0.063	1.000	0.063
5G NR n5	-3.60	25.00	21.400	0.138	138.038	0.027	0.551	0.050
5G NR n7	-3.60	25.00	21.400	0.138	138.038	0.027	1.000	0.027
5G NR n12	-5.20	25.00	19.800	0.095	95.499	0.019	0.468	0.041
5G NR n25	0.00	25.00	25.000	0.316	316.228	0.063	1.000	0.063
5G NR n41	-1.50	25.00	23.500	0.224	223.872	0.045	1.000	0.045
5G NR n41 HPUE	-1.50	27.50	26.000	0.398	398.107	0.079	1.000	0.079
5G NR n66	-0.80	25.00	24.200	0.263	263.027	0.052	1.000	0.052
5G NR n71	-5.30	25.00	19.700	0.093	93.325	0.019	0.444	0.042
2.4GHz WLAN	-2.20	26.00	23.800	0.240	239.883	0.048	1.000	0.048
5GHz WLAN	-0.80	24.00	23.200	0.209	208.930	0.042	1.000	0.042
Bluetooth	-2.20	19.50	17.300	0.054	53.703	0.011	1.000	0.011



WWAN Power Density / Limit	2.4GHz WLAN Power Density / Limit	5GHz WLAN Power Density / Limit	Σ (Power Density / Limit)
0.079	0.048	0.042	0.169
WWAN Power Density / Limit	5GHz WLAN Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit)
0.079	0.042	0.011	0.132

Note:

1. For colocation analysis, the highest (power density/limit) among all WWAN wireless modes is chosen for summation.
2. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WWAN + 2.4GHz WLAN + 5GHz WLAN low power transmitter or WWAN + 5GHz WLAN + Bluetooth low power transmitter.
3. Considering the WWAN collocation with the WLAN / Bluetooth low power 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.