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*In the matter of:*

Q-Broadcasting Corporation

W284CJ

BMPFT-20181024AAU

**RF EXPOSURE STUDY**

To address the conditions placed upon the above captioned construction permit, Q Broadcasting Corporation ("Grantee") prepares this RF exposure study for the two FM translator broadcast stations placed on the roof of a high-rise business structure in Orlando Florida. The other antenna on the roof is an existing facility that is not commonly-owned by the Grantee.<sup>1</sup>

The existing facility, W226BT operates 0.25 kW horizontal and 0.25 kW vertical at 130 meters above ground level. The above captioned facility is located at 130 meters above ground level. These two antennas are located on the same rooftop approximately 44 meters apart from each other. Therefore, the antenna is not shared.<sup>2</sup>

We have reviewed the power density at 45 points on a straight line between the location of each antenna on the rooftop. Based on the aggregated power density of from each antenna in this overlapping area, the highest point of radiation is located 3 meters southeast of the W226BT antenna (which is 41 meters northwest of the W284CJ antenna). Based on the results of this study, we have determined that there is no point in the occupied (uncontrolled) portion of the building where the power density exceeds 106.3 uW/cm<sup>2</sup>. This value well exceeds the general population/uncontrolled exposure guideline of 200 uW/cm<sup>2</sup>.

The roof of the Suntrust Building is restricted access therefore it would be considered as a controlled environment for RF exposure evaluation. Applicant would be required to reduce power or discontinue operation in the event that work needs to be performed on or close to the antenna structure.

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<sup>1</sup> - See BMPFT-20170612ABM, exhibit 17.

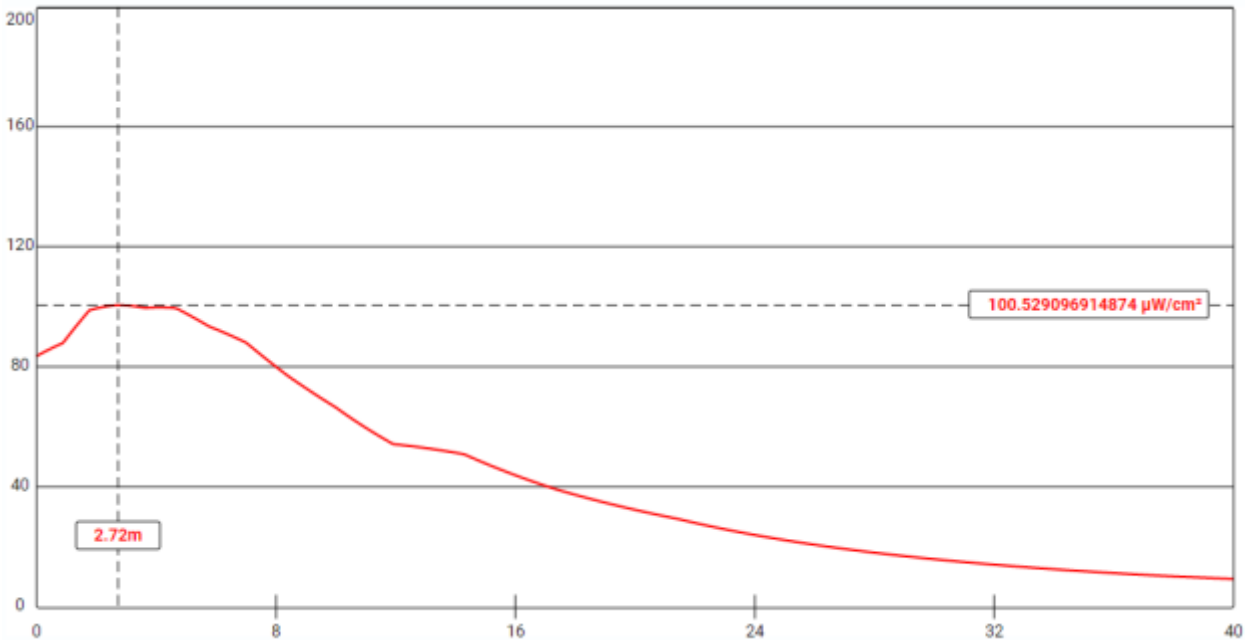
<sup>2</sup> - Because the antenna is not shared, the issues with spurious emissions that sometimes occurs with combiners will not occur in this situation therefore satisfying Condition #5.

In the instant case, the permittee is certifying that the RF exposure on the roof and throughout the building is well within the guidelines in accordance with OET Bulletin No. 65, Edition 97-01, August 1997 and that appropriate visual warning signs have been placed at all roof access points in accordance with condition 1 on the construction permit. As noted, the grantee did is not using a combined antenna system therefore addressing the issues expressed in condition 5 of the construction permit.

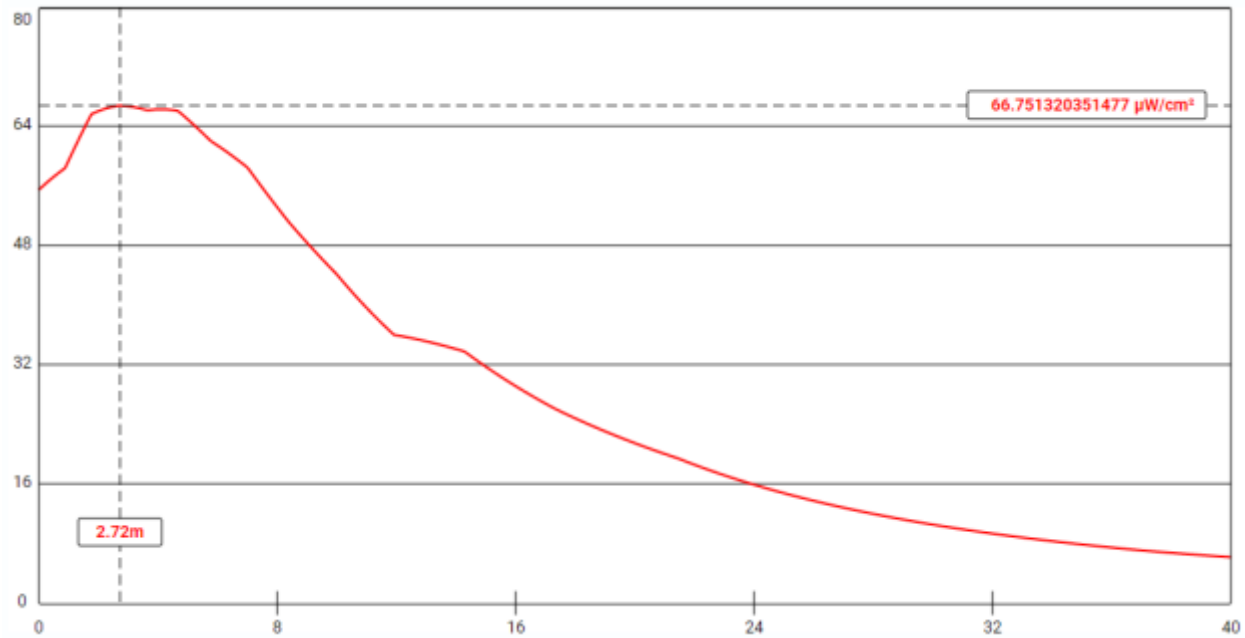
Prepared by:  
Michelle Bradley  
REC Networks  
February 26, 2019

**FM MODEL FOR BOTH STATIONS ON THE ROOF OF THE SUNTRUST BUILDING**

W226BT

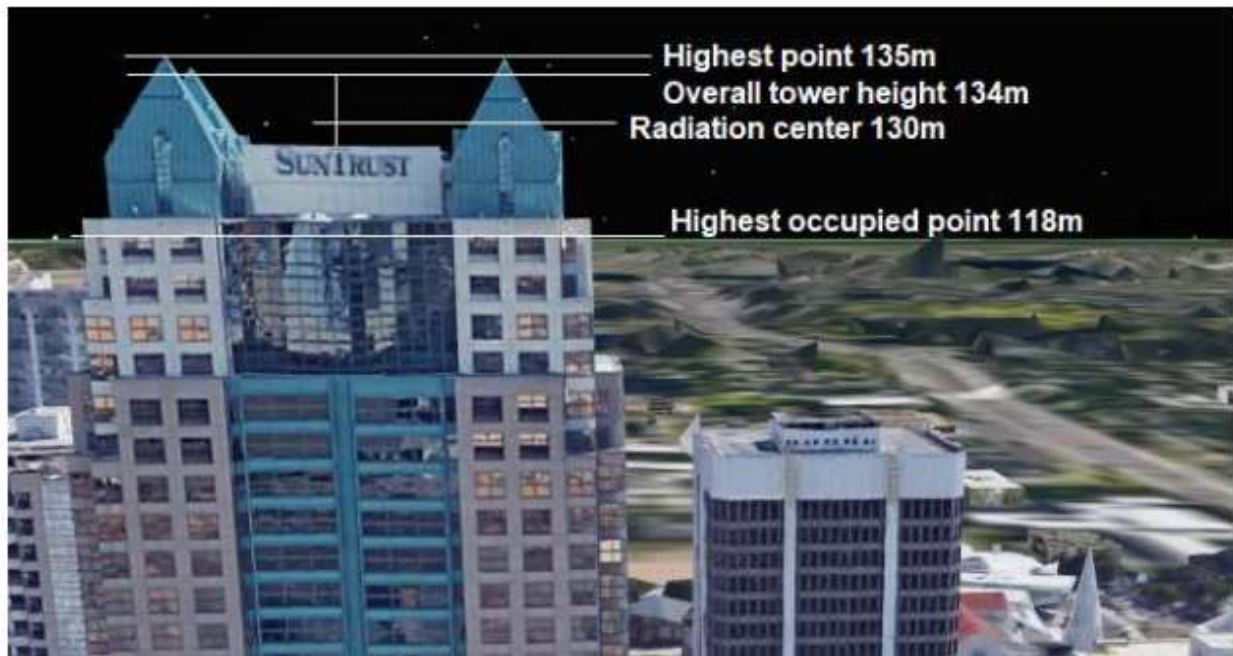
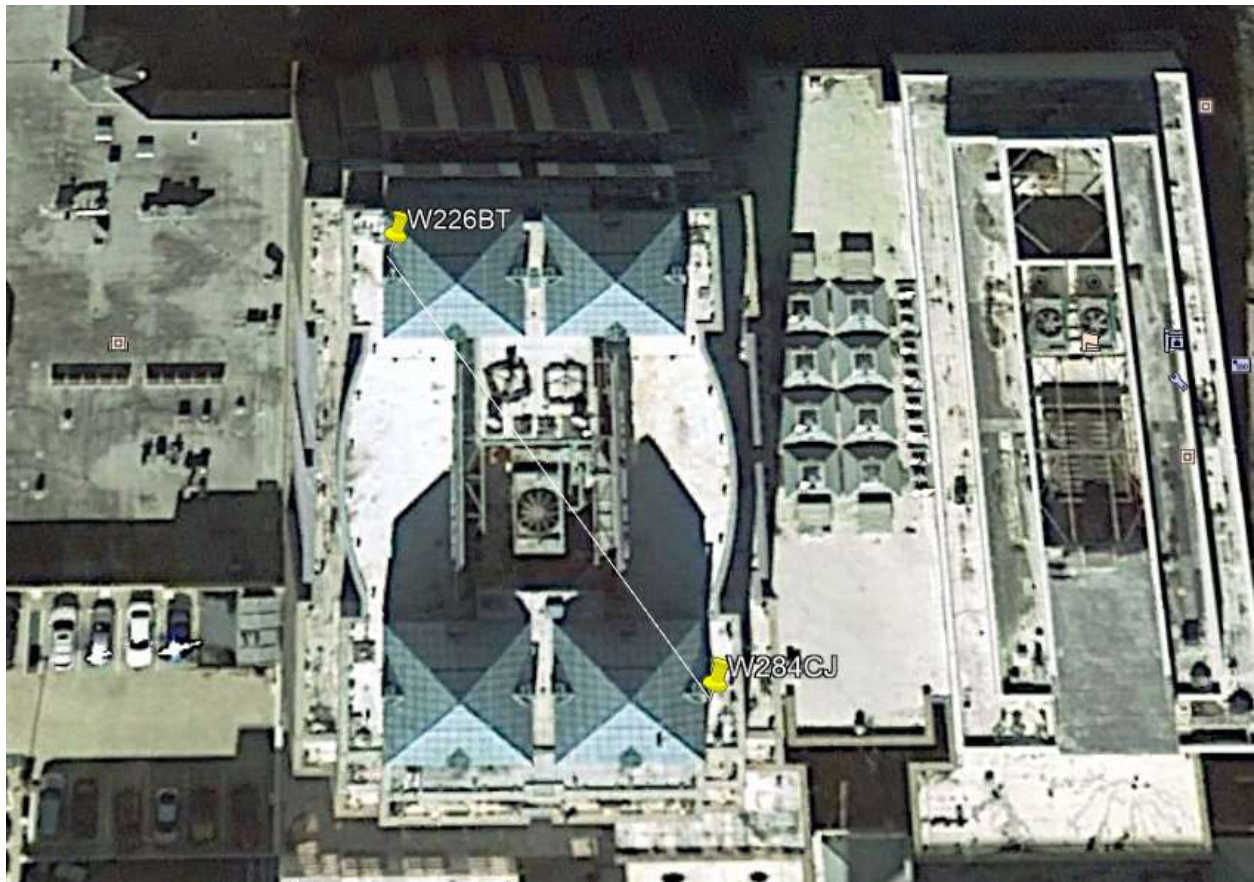


W284CJ



Meters from W226BT	Meters from W284CJ	W226BT $\mu\text{W}/\text{cm}^2$	W284CJ $\mu\text{W}/\text{cm}^2$	Com-bined $\mu\text{W}/\text{cm}^2$
0	44	83.5	5.2	88.7
1	43	89.5	5.4	94.9
2	42	99.4	5.6	105.0
3	41	100.4	5.9	106.3
4	40	99.8	6.1	105.9
5	39	97.7	6.4	104.1
6	38	92.4	6.7	99.1
7	37	88.0	7.1	95.1
8	36	80.0	7.4	87.4
9	35	72.8	7.9	80.7
10	34	66.4	8.3	74.7
11	33	59.6	8.8	68.4
12	32	54.1	9.3	63.4
13	31	52.9	9.9	62.8
14	30	51.3	10.5	61.8
15	29	47.7	11.2	58.9
16	28	43.8	12.0	55.8
17	27	40.3	12.8	53.1
18	26	37.3	13.7	51.0
19	25	34.7	14.7	49.4
20	24	32.3	15.9	48.2
21	23	30.1	17.1	47.2
22	22	27.9	18.6	46.5

Meters from W226BT	Meters from W284CJ	W226BT $\mu\text{W}/\text{cm}^2$	W284CJ $\mu\text{W}/\text{cm}^2$	Com-bined $\mu\text{W}/\text{cm}^2$
23	21	25.8	20.0	45.8
24	20	23.9	21.5	45.4
25	19	22.2	23.0	45.2
26	18	20.7	24.8	45.5
27	17	19.3	26.8	46.1
28	16	18.0	29.1	47.1
29	15	16.9	31.7	48.6
30	14	15.8	34.1	49.9
31	13	14.9	35.1	50.0
32	12	14.0	35.9	49.9
33	11	13.2	39.6	52.8
34	10	12.5	44.1	56.6
35	9	11.8	48.3	60.1
36	8	11.2	53.1	64.3
37	7	10.6	58.4	69.0
38	6	10.1	61.4	71.5
39	5	9.7	64.9	74.6
40	4	9.3	66.2	75.5
41	3	8.9	66.7	75.6
42	2	8.5	66.0	74.5
43	1	8.1	59.4	67.5
44	0	7.8	55.5	63.3





# Hazard Signage Along Multiple Rooftop Locations

