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To: Behnam Ghaffari

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Subject: FCC File No. 0758-EX-ST-2015

Message:

Bicon antenna EMCO 3109

Frequency(MHz)	Antenna Factor					
at 1m (dB/m)	Gain dBi	3dB Beamwidth				
(degrees)	window size (m)	Forward power				
to generate 10V/m at 1 m (Watts)		Forward power				
at antenna input dBm						
80	8	0	90	2	3.33W	35dBm
100	10	0	85	1.6	3.33W	35dBm
125	13	0	80	1.66	3.33W	35dBm
150	14	1	70	1.4	3.33W	34dBm
200	15	2	65	1.24	3.33W	33dBm
250	18	1	50	0.86	3.33W	34dBm
300	20	1	110	2.7	3.33W	34dBm
					Forward power	
					at antenna input dBm	
					27dBm	
					25dBm	

LPA Antenna EMCO 3146A

Frequency(MHz)	Antenna Factor					
at 1m (dB/m)	Gain dBi	3dB Beamwidth				
(degrees)	window size (m)	Forward power				
to generate 10V/m at 1 m (Watts)		Forward power				
at antenna input dBm						
300	17	4.3	100	2.7	1.33W	27dBm
400	17.1	5.2	55	1.04	1.33W	26dBm
500	20.5	4.9	60	1.15	1.33W	26dBm
600	20.7	5.8	65	1.24	1.33W	25Bm
700	21.6	5.7	85	1.96	1.33W	25.3dBm
800	22.6	6.3	60	1.96	1.33W	24.7dBm
900	22.6	4.9	80	1.67	1.33W	26dBm
1000	25.1	5.1	65	1.24	1.33W	25.9dBm

Horn Antenna EMCO 3115

Frequency(MHz)	Antenna Factor					
at 1m (dB/m)	Gain dBi	3dB Beamwidth				
(degrees)	window size (m)	Forward power				
to generate 10V/m at 1 m (Watts)		Forward power				
at antenna input dBm						
1000	26	7	95	2	0.06W	18dBm
1500	27	9	90	2	0.06W	16dBm

2000	28	7	60	1.15	0.06W	18dBm
2500	27.5	9	50	0.8	0.06W	16dBm
2700	32	10	40	0.72	0.06W	15dBm