Test Report No.50097181 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50097181AppendixD)

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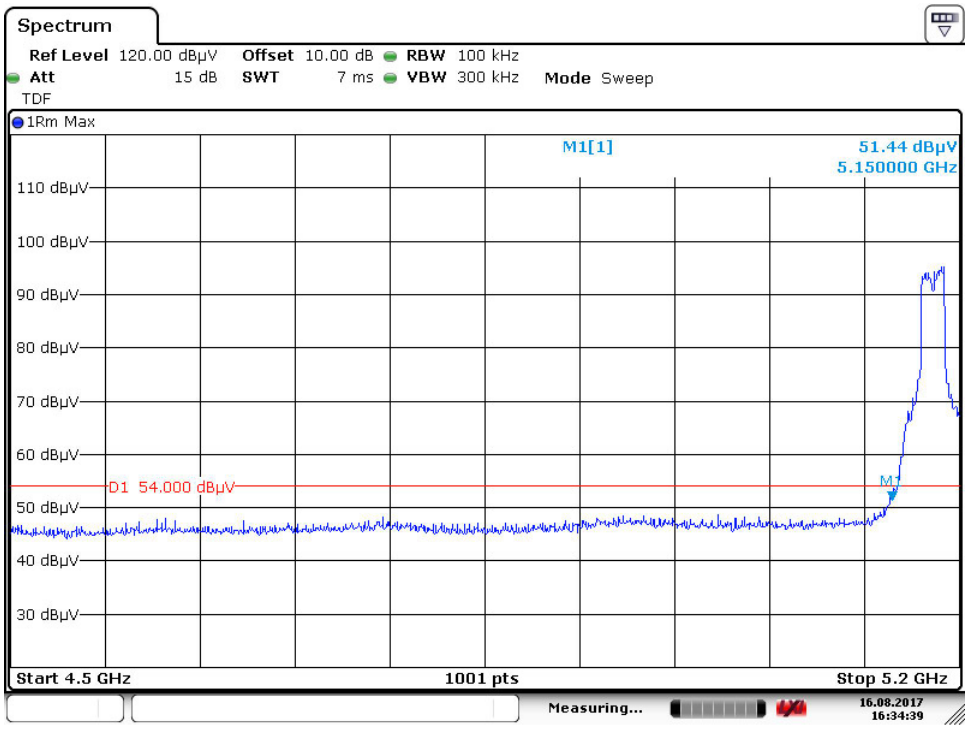
Spurious Emissions, Band Edges,4.5-5.2G

Radiated Bandedge 11a HT20

Low Channel (Hor) 5180



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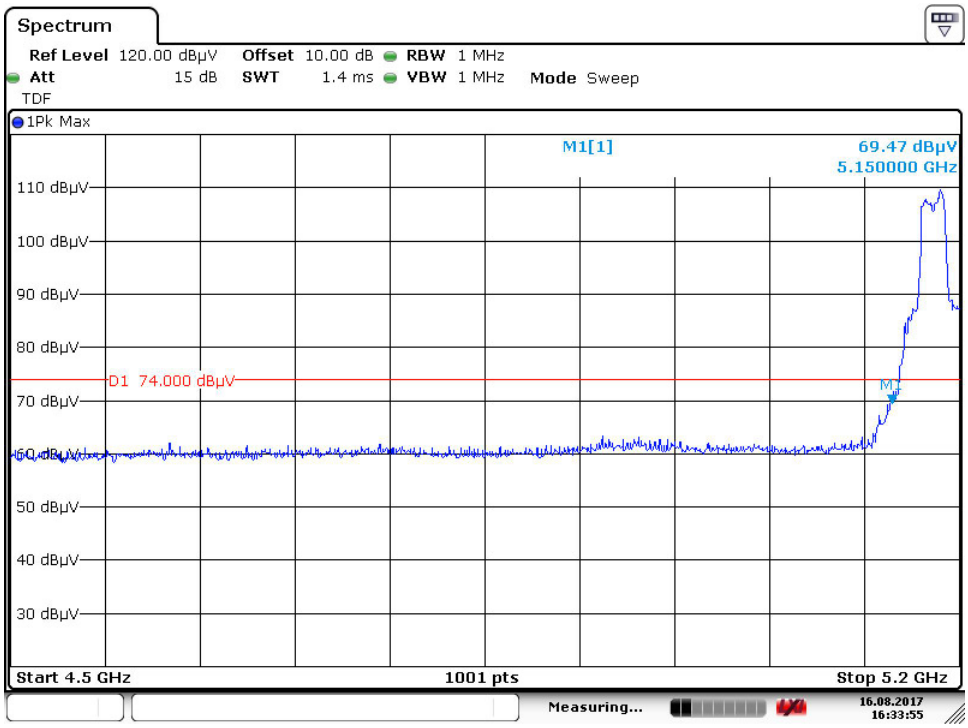

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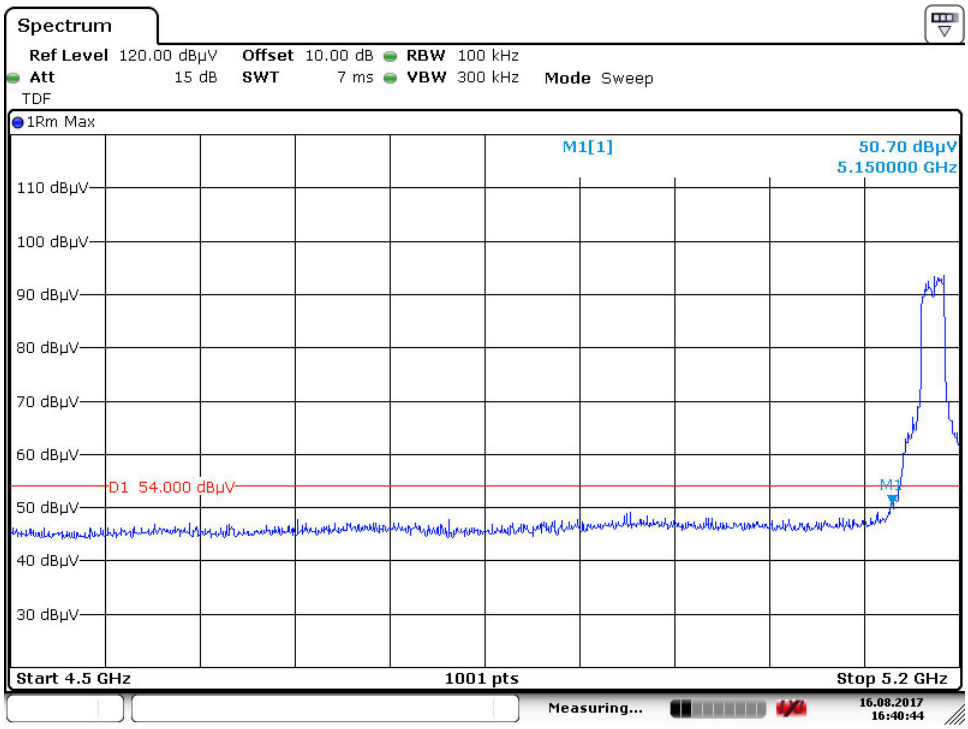

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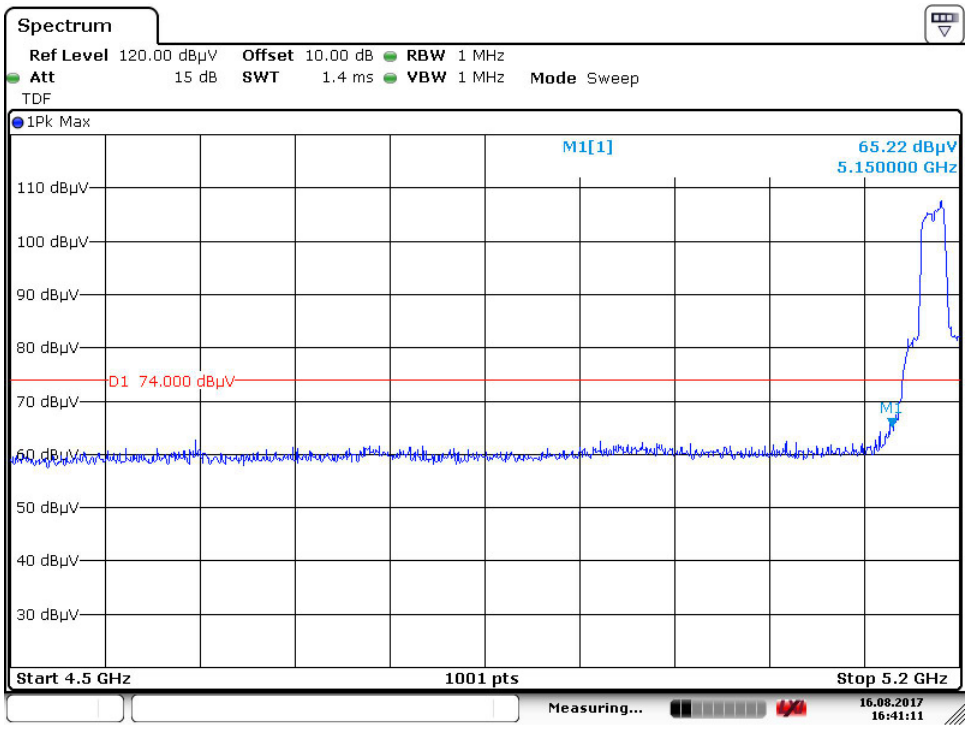

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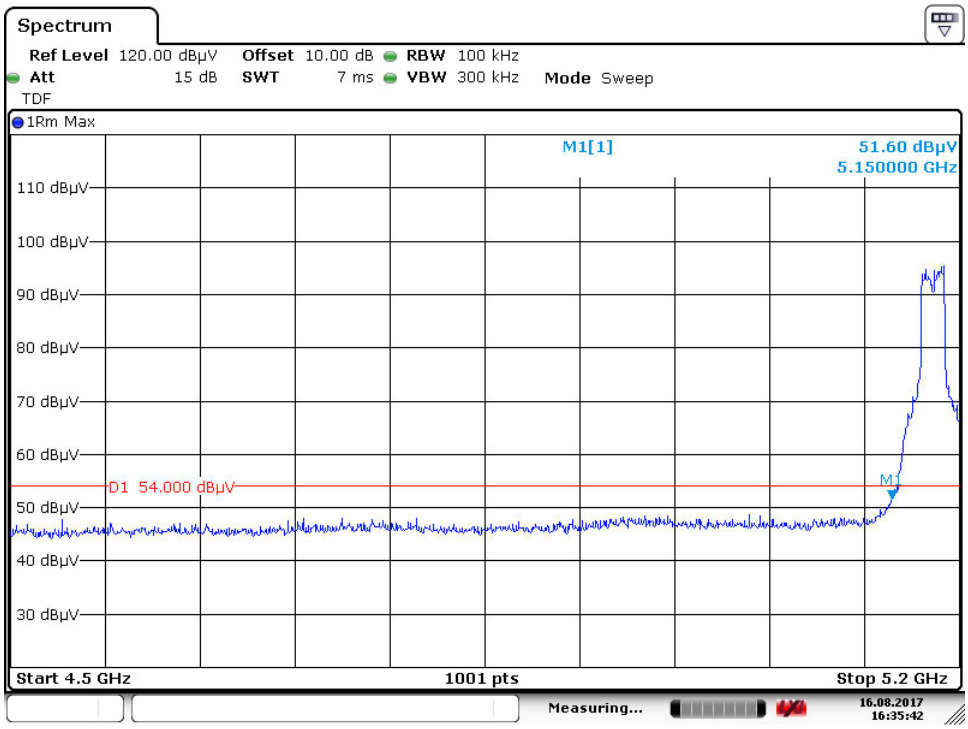
Radiated Bandedge 11ac 20

Low Channel (Hor) 5190



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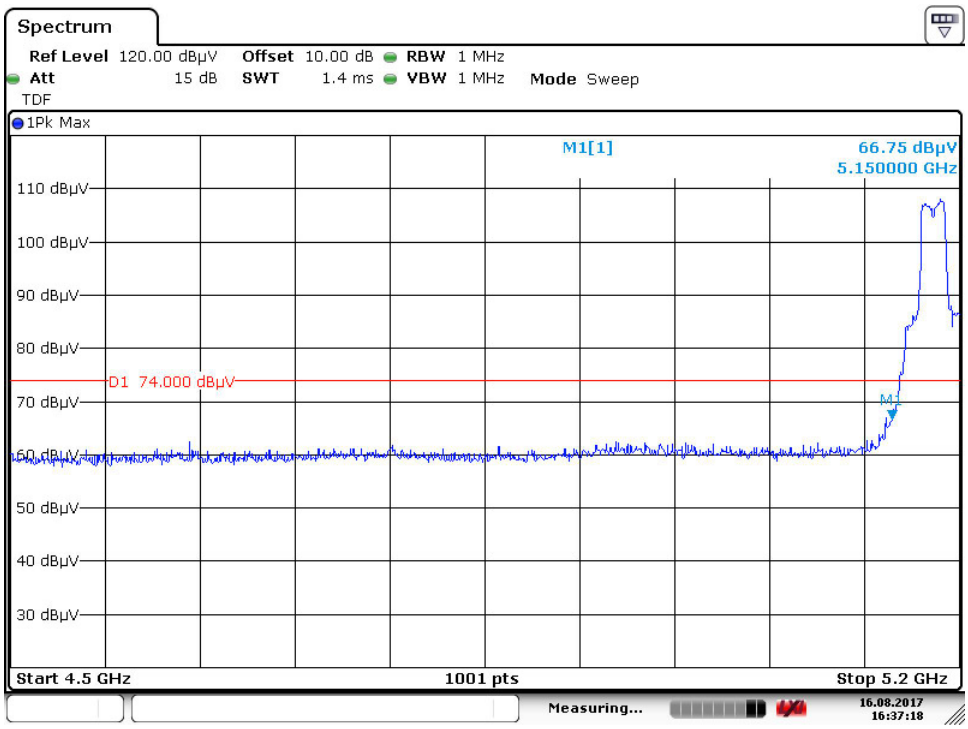

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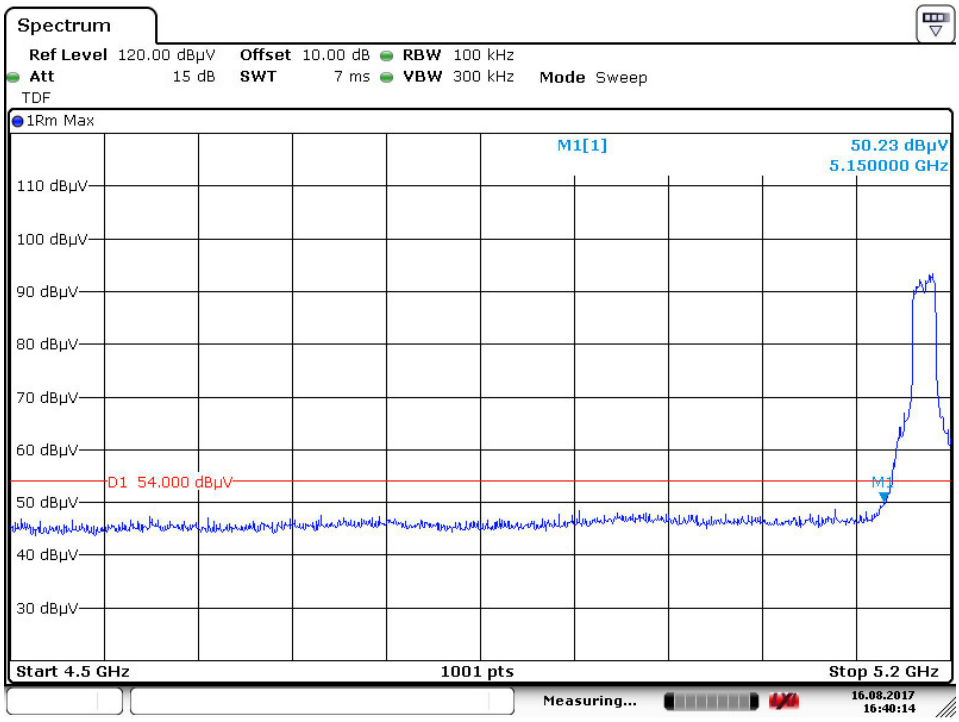

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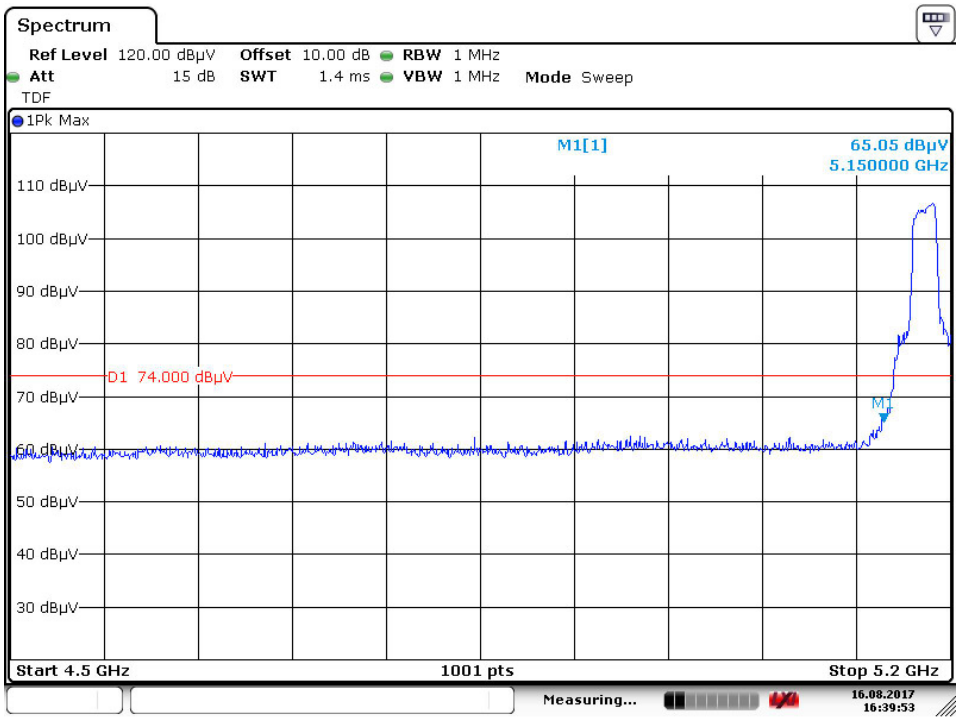

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Spurious Emissions, TX Mode, 1-18G , 5150-5250MHz

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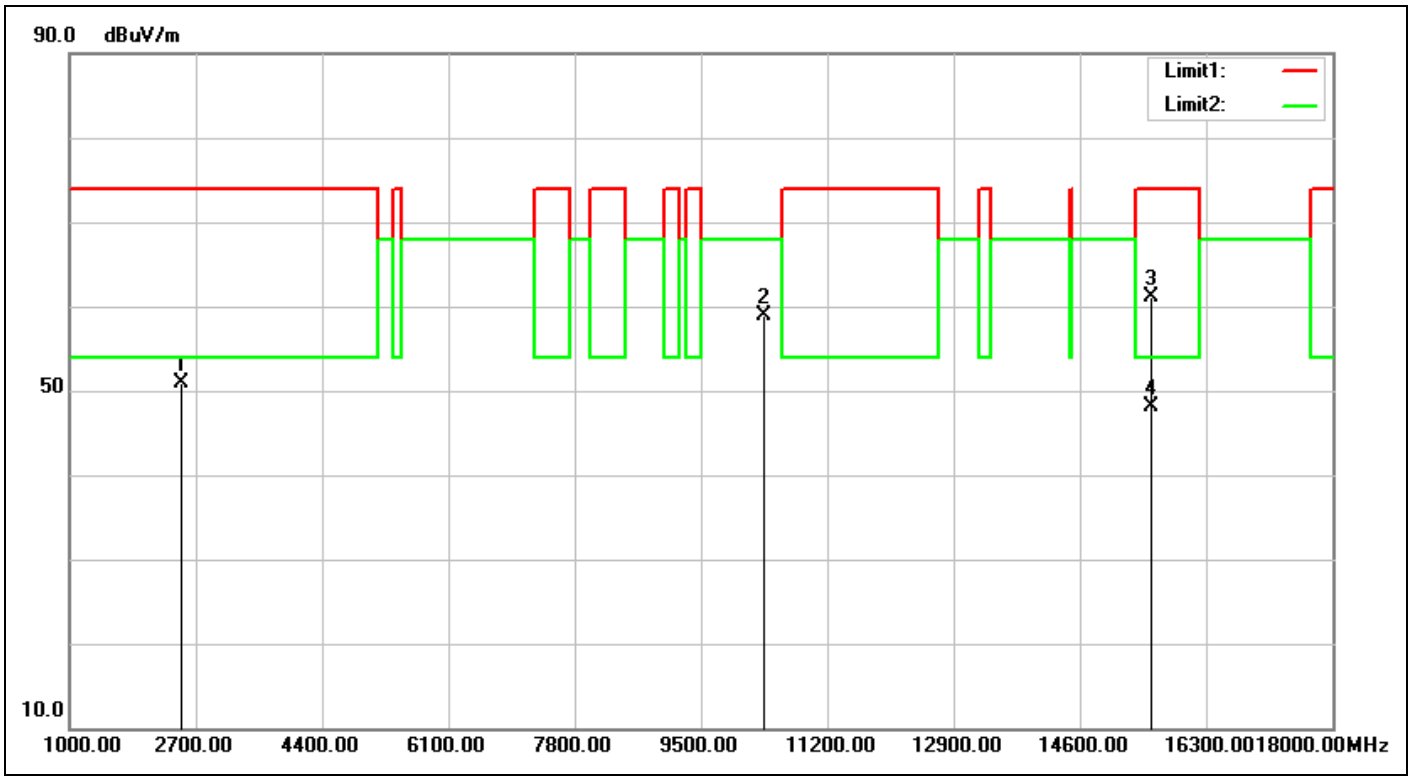

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:03:18**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	2513.000	-3.99	54.97	50.98	74.00	-23.02	peak	100	178	
2	10360.000	10.22	48.69	58.91	68.00	-9.09	peak	100	224	
3	15540.000	17.25	43.88	61.13	74.00	-12.87	peak	100	200	
4	15540.000	17.25	30.95	48.20	54.00	-5.80	AVG	100	200	

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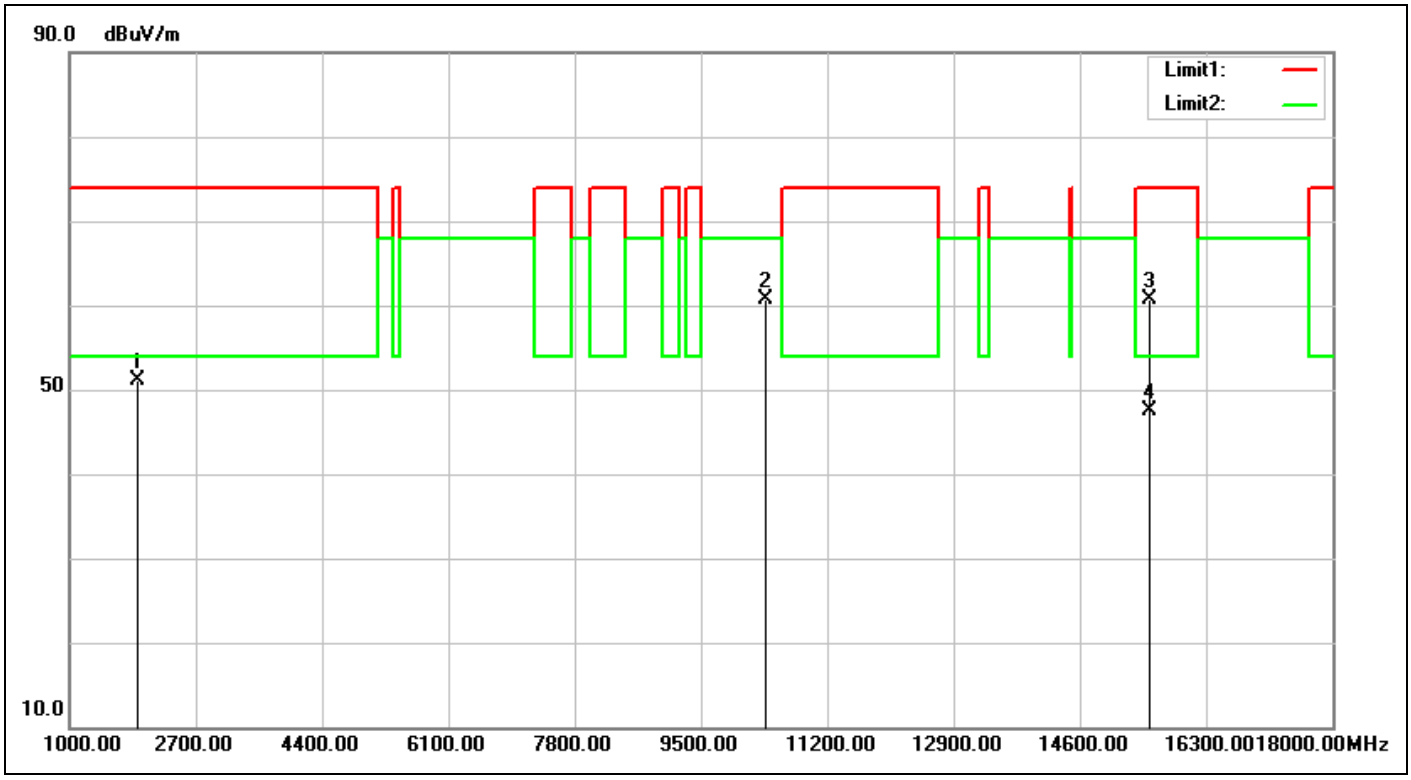

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:04:21**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-4.83	55.92	51.09	74.00	-22.91	peak	100	312	
2	10360.000	10.22	50.39	60.61	68.00	-7.39	peak	100	67	
3	15540.000	17.25	43.39	60.64	74.00	-13.36	peak	100	60	
4	15540.000	17.25	30.35	47.60	54.00	-6.40	AVG	100	60	

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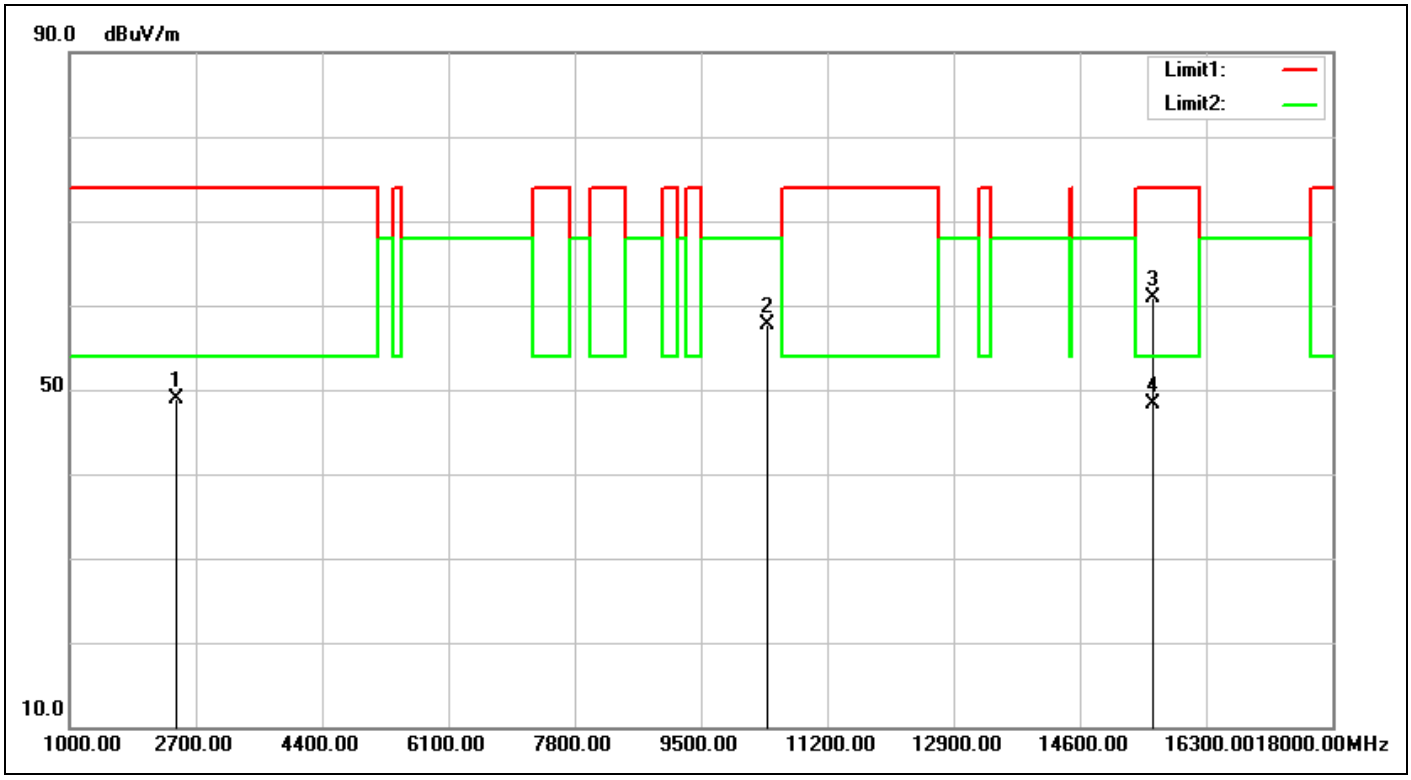

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:08:11**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	2445.000	-4.05	53.02	48.97	74.00	-25.03	peak	100	279	
2	10400.000	10.15	47.55	57.70	68.00	-10.30	peak			
3	15600.000	17.42	43.41	60.83	74.00	-13.17	peak			
4	15600.000	17.42	30.88	48.30	54.00	-5.70	AVG			

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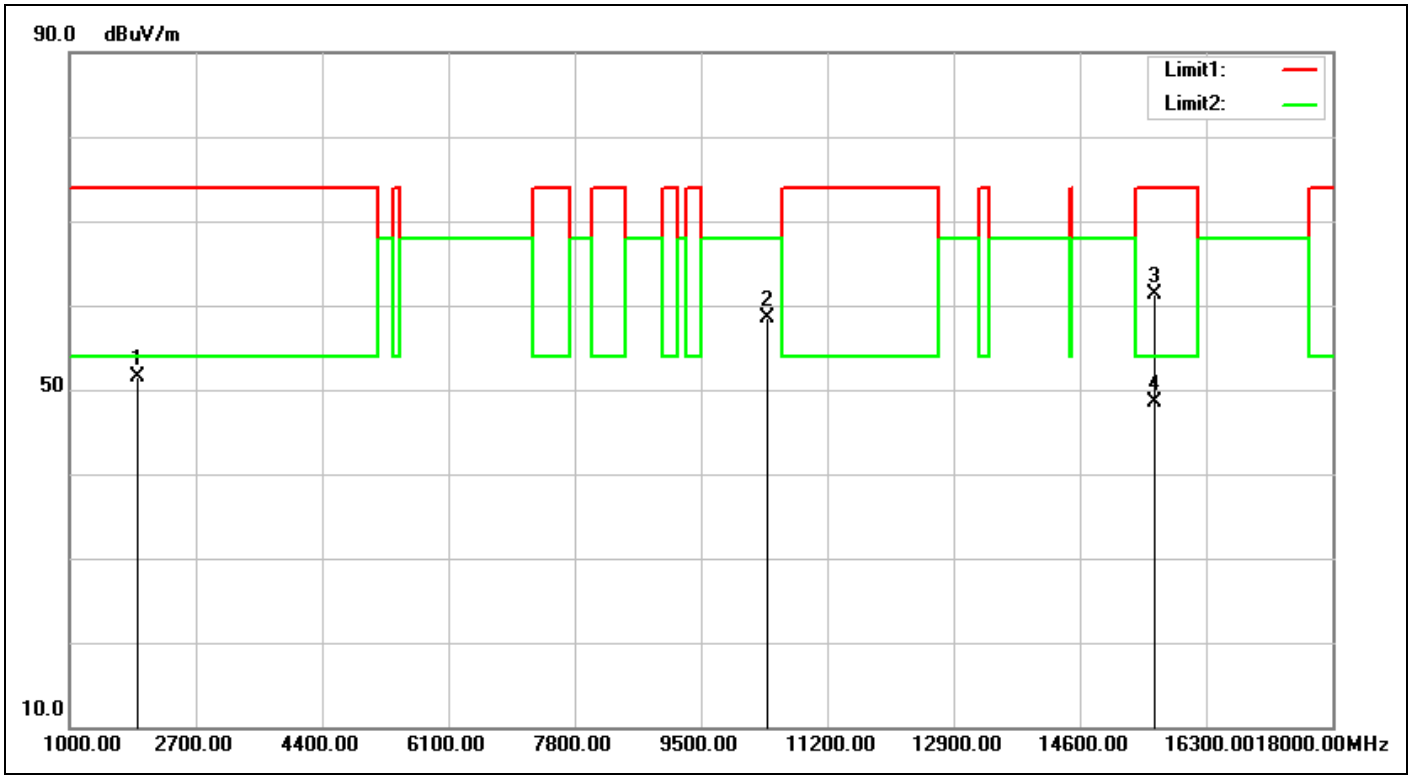

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:09:14**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-4.83	56.30	51.47	74.00	-22.53	peak	100	294	
2	10400.000	10.15	48.28	58.43	68.00	-9.57	peak			
3	15600.000	17.42	43.97	61.39	74.00	-12.61	peak			
4	15600.000	17.42	31.08	48.50	54.00	-5.50	AVG			

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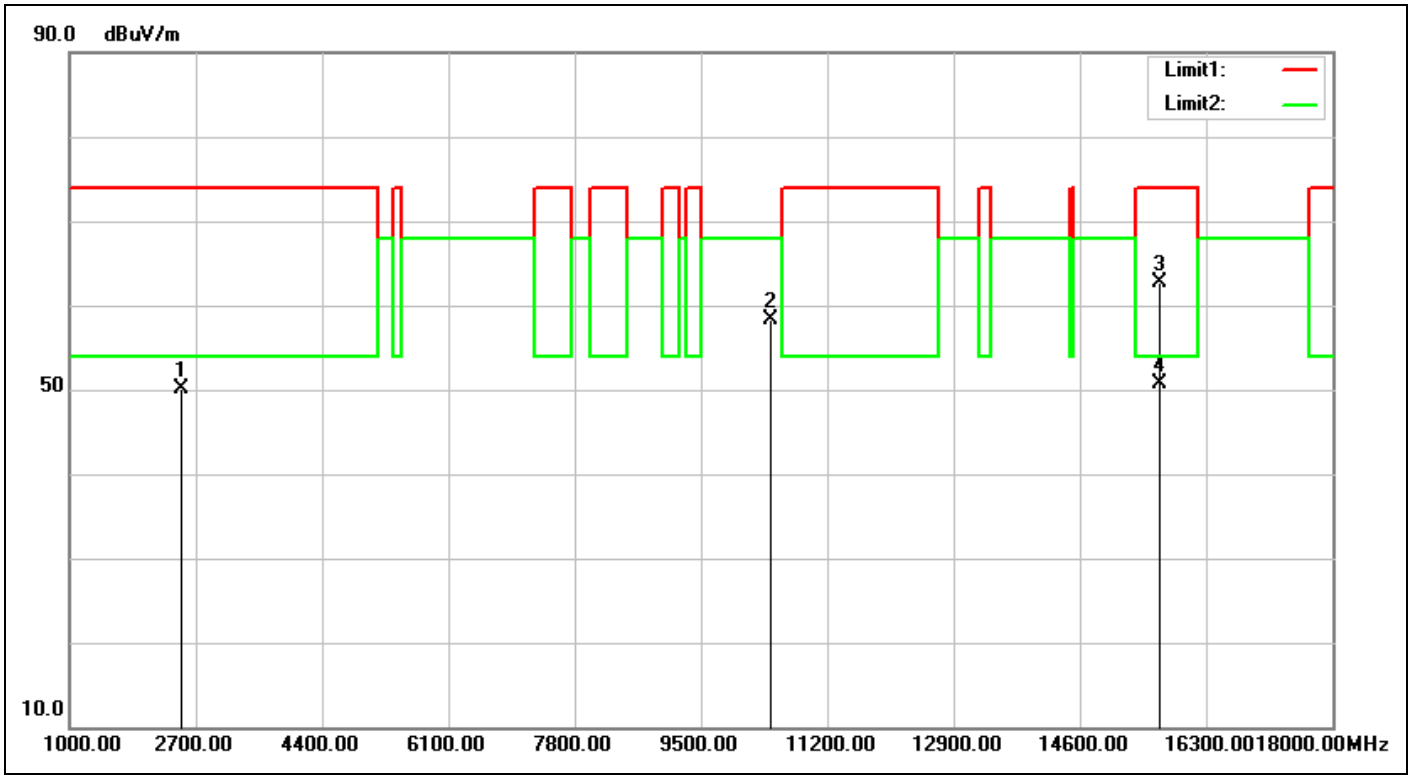

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:11:44**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	2513.000	-3.99	54.11	50.12	74.00	-23.88	peak	100	19	
2	10440.000	10.06	48.31	58.37	68.00	-9.63	peak			
3	15660.000	17.59	45.16	62.75	74.00	-11.25	peak			
4	15660.000	17.59	33.21	50.80	54.00	-3.20	AVG			

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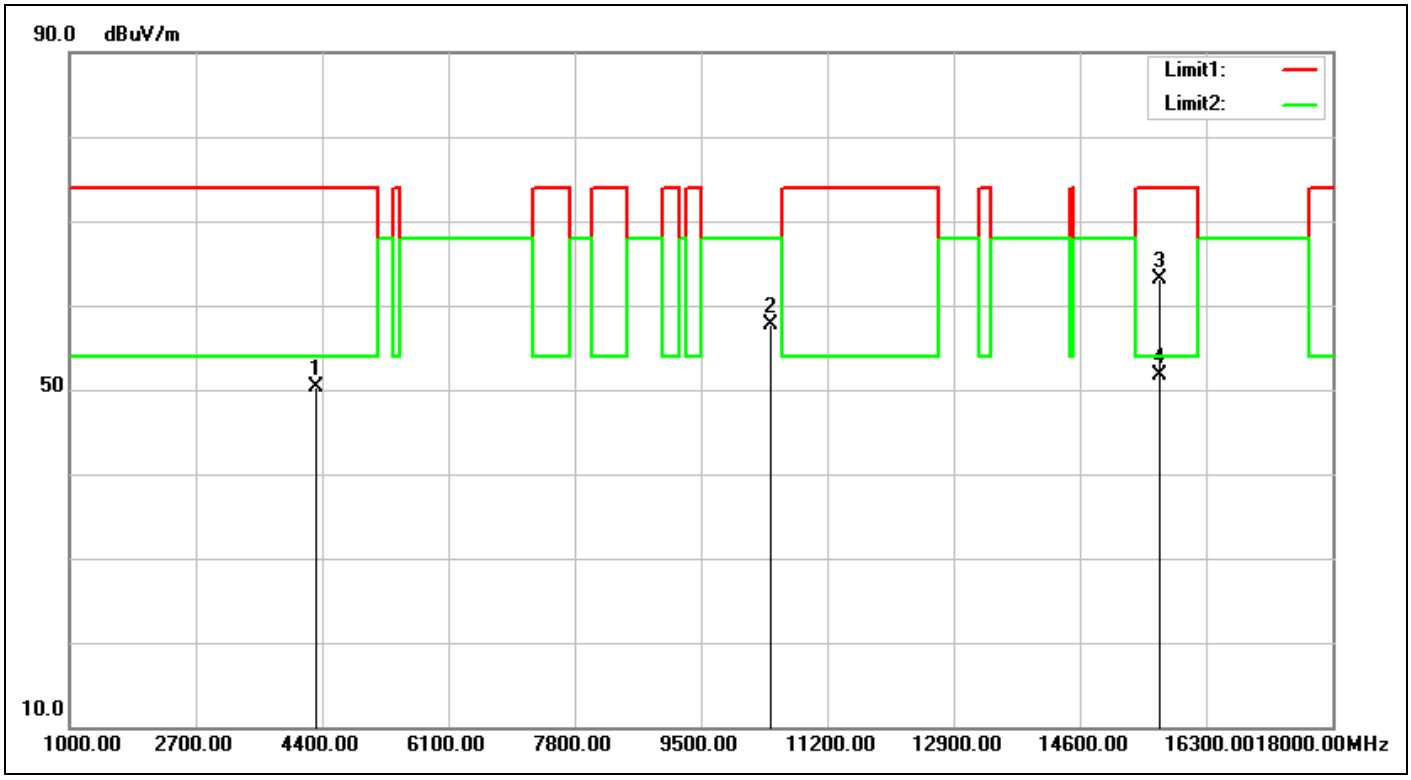

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:12:47**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	4315.000	0.09	50.26	50.35	74.00	-23.65	peak	100	217	
2	10440.000	10.06	47.61	57.67	68.00	-10.33	peak			
3	15660.000	17.59	45.57	63.16	74.00	-10.84	peak			
4	15660.000	17.59	34.11	51.70	54.00	-2.30	AVG			

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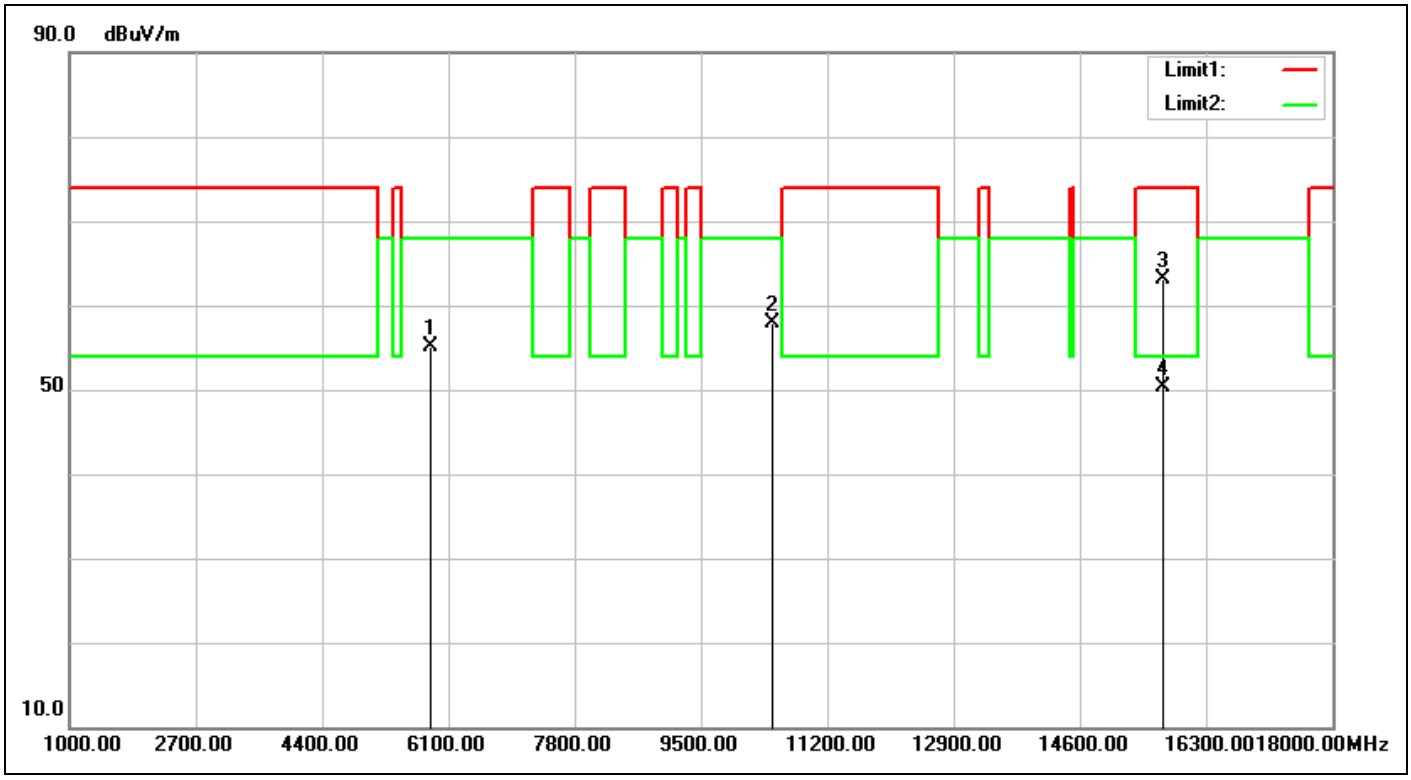

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:17:45**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	5862.000	6.74	48.33	55.07	68.00	-12.93	peak	100	54	
2	10480.000	9.98	47.83	57.81	68.00	-10.19	peak			
3	15720.000	17.75	45.37	63.12	74.00	-10.88	peak			
4	15720.000	17.75	32.55	50.30	54.00	-3.70	AVG			

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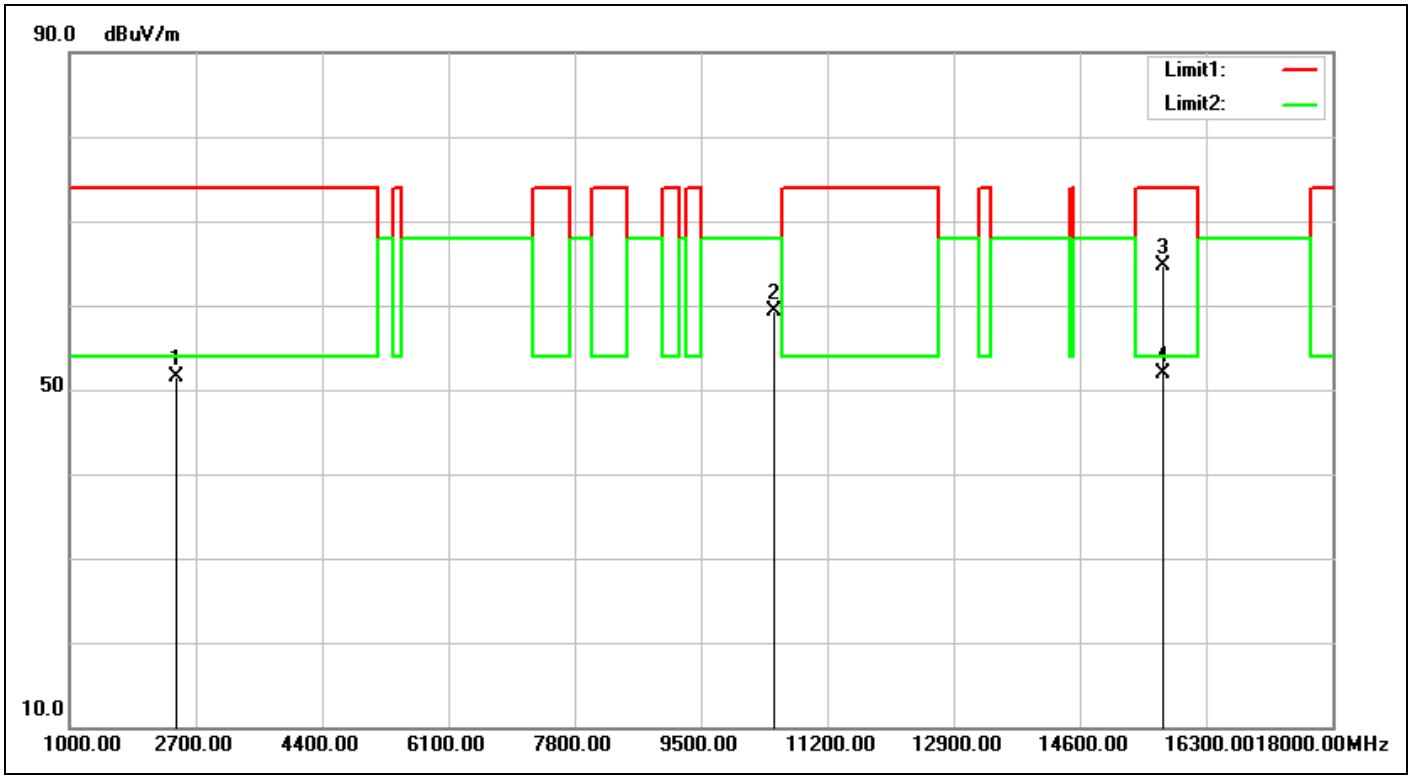

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:18:47**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	2445.000	-4.05	55.64	51.59	74.00	-22.41	peak	100	357	
2	10480.000	9.98	49.31	59.29	68.00	-8.71	peak			
3	15720.000	17.75	47.04	64.79	74.00	-9.21	peak			
4	15720.000	17.75	34.15	51.90	54.00	-2.10	AVG			

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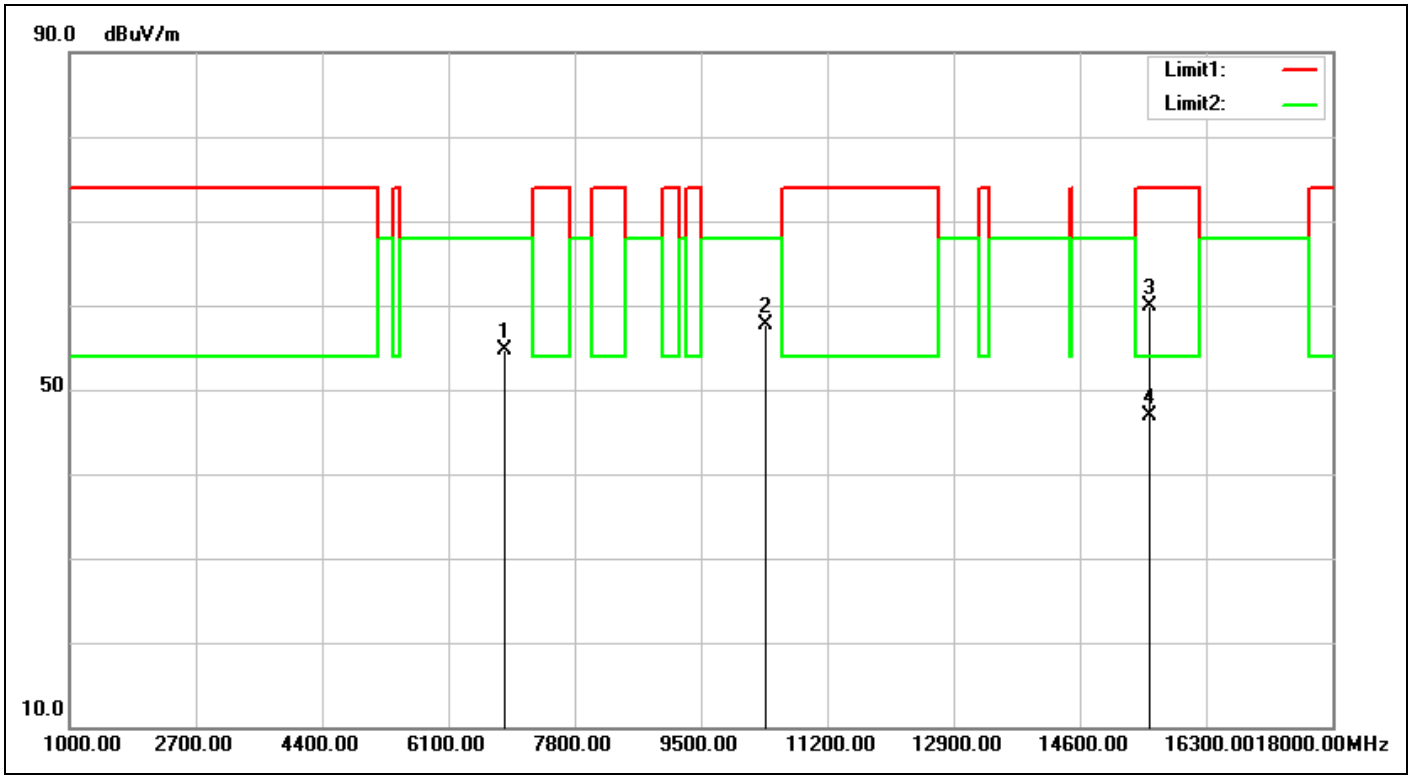

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:21:30**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6848.000	9.42	45.22	54.64	68.00	-13.36	peak	100	43	
2	10360.000	10.22	47.45	57.67	68.00	-10.33	peak			
3	15540.000	17.25	42.73	59.98	74.00	-14.02	peak			
4	15540.000	17.25	29.75	47.00	54.00	-7.00	AVG			

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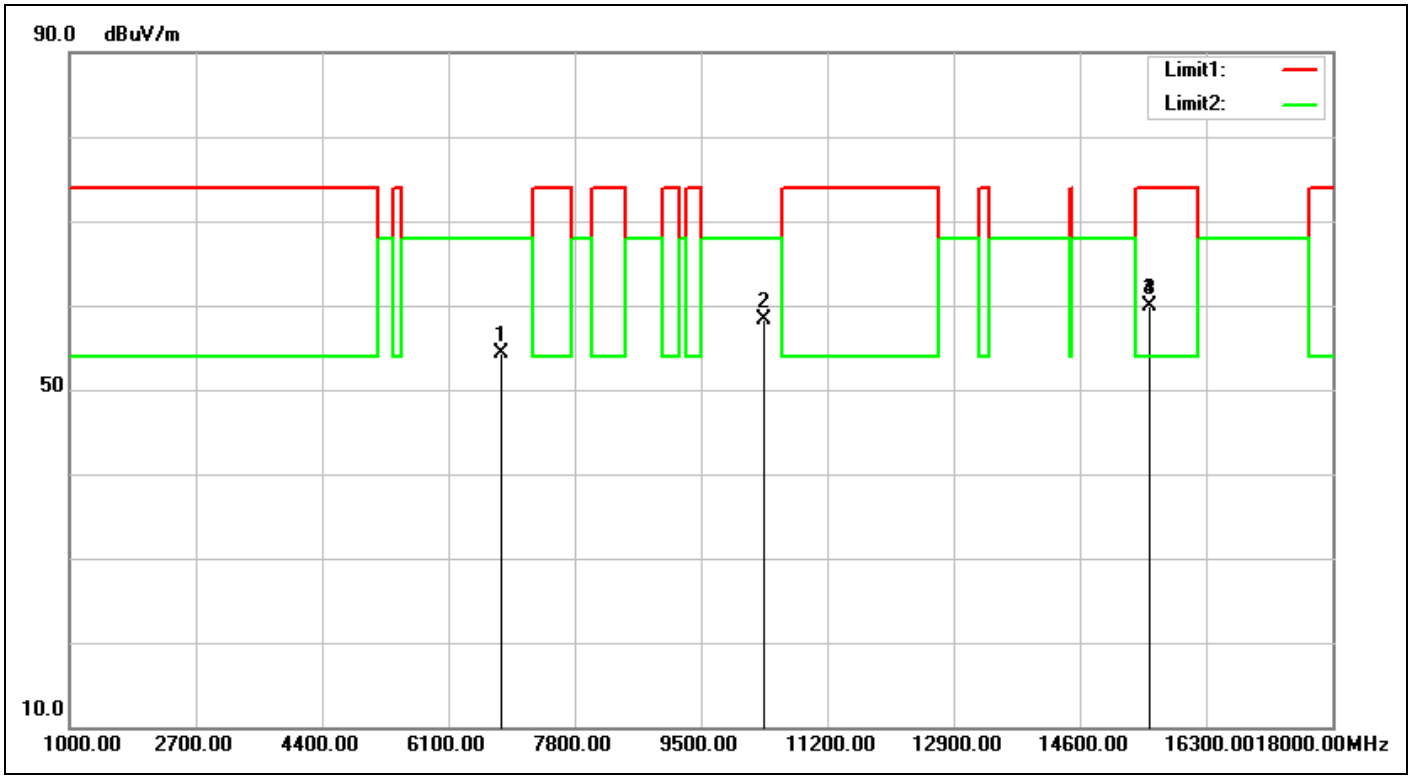

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:22:33**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6814.000	9.45	44.94	54.39	68.00	-13.61	peak	100	119	
2	10360.000	10.22	48.01	58.23	68.00	-9.77	peak			
3	15540.000	17.25	42.56	59.81	74.00	-14.19	peak			
4	15540.000	17.25	42.56	59.81	74.00	-14.19	peak			

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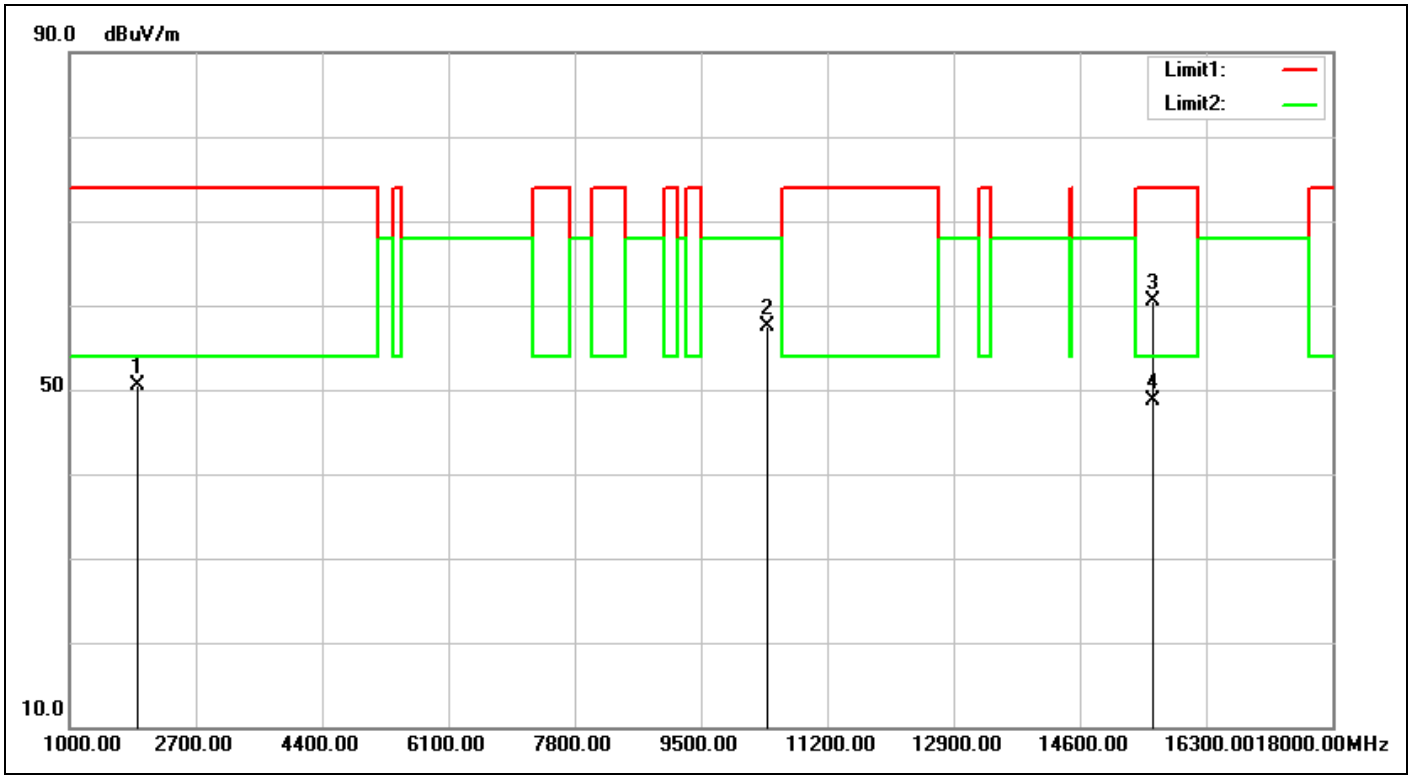

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:25:24**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-4.83	55.43	50.60	74.00	-23.40	peak	100	89	
2	10400.000	10.15	47.45	57.60	68.00	-10.40	peak			
3	15600.000	17.42	42.99	60.41	74.00	-13.59	peak			
4	15600.000	17.42	31.34	48.76	54.00	-5.24	AVG			

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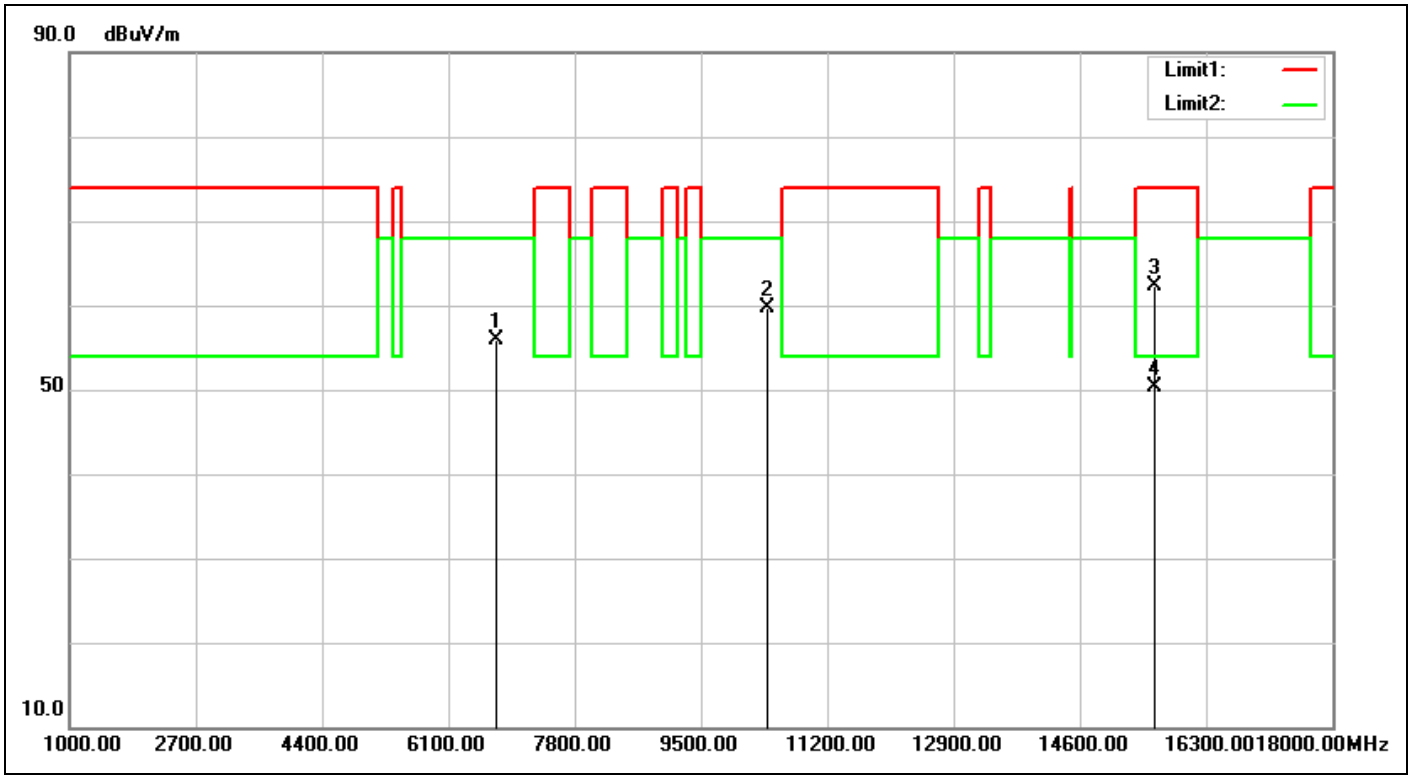

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:26:27**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	46.41	55.92	68.00	-12.08	peak	100	35	
2	10400.000	10.15	49.59	59.74	68.00	-8.26	peak			
3	15600.000	17.42	44.81	62.23	74.00	-11.77	peak			
4	15600.000	17.42	32.88	50.30	54.00	-3.70	AVG			

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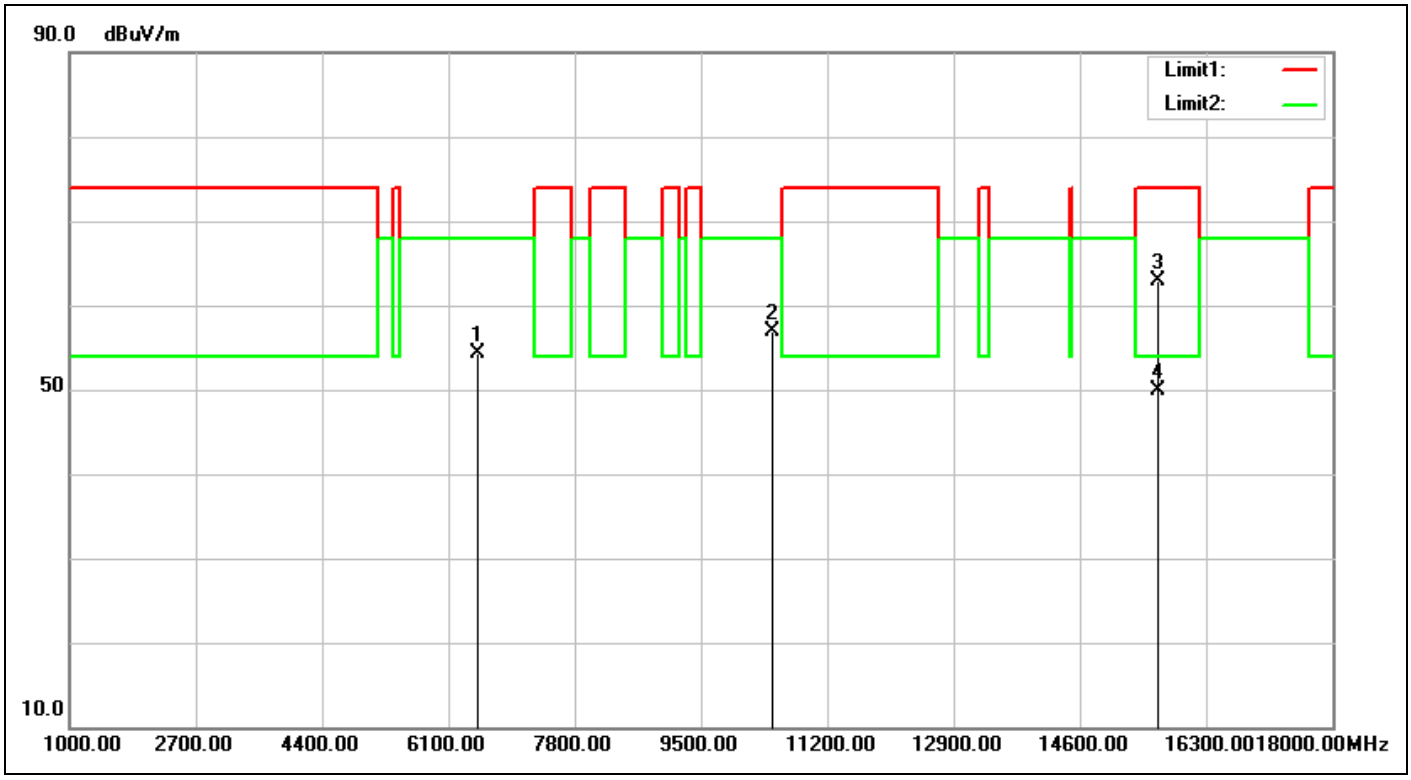

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:31:00**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6491.000	9.70	44.55	54.25	68.00	-13.75	peak	100	211	
2	10440.000	10.06	46.92	56.98	68.00	-11.02	peak			
3	15660.000	17.59	45.26	62.85	74.00	-11.15	peak			
4	15660.000	17.59	32.31	49.90	54.00	-4.10	AVG			

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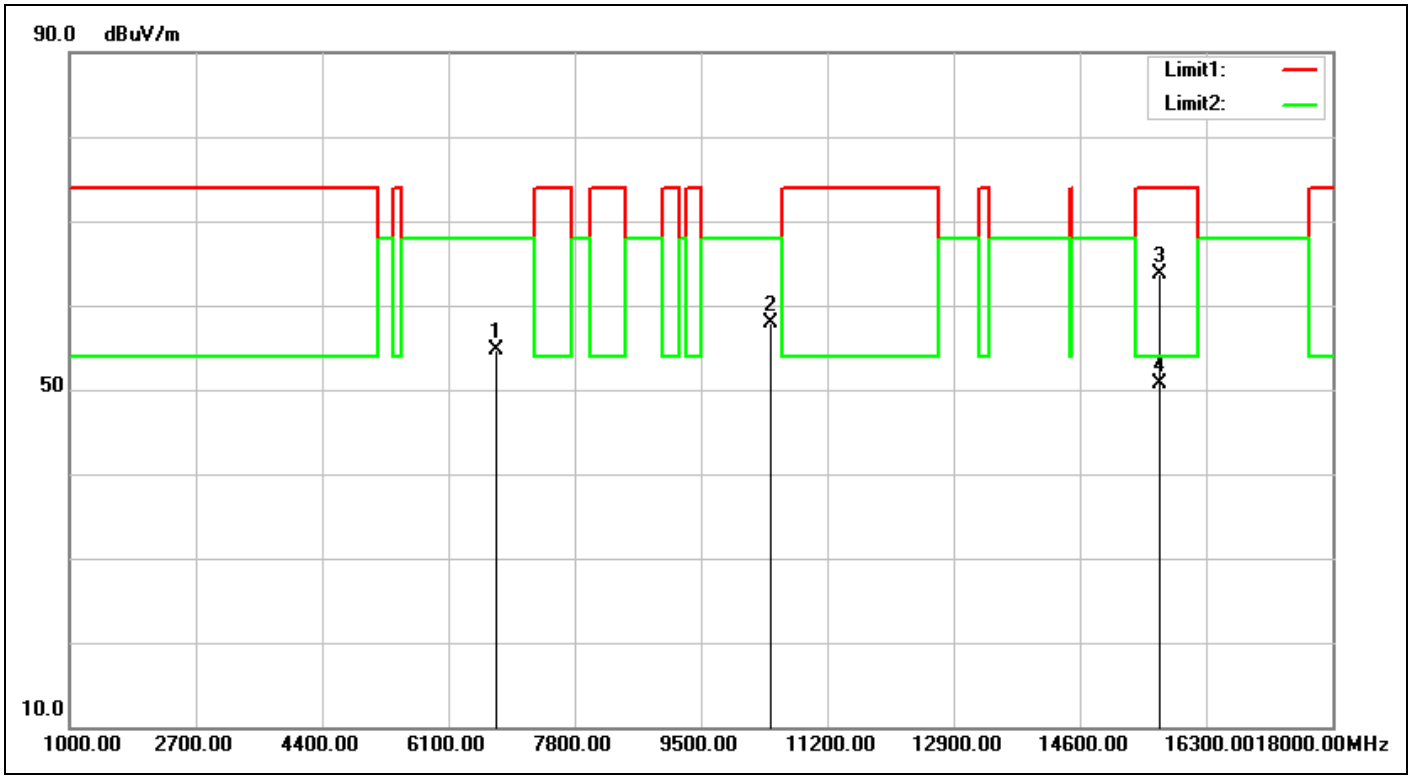

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:32:03**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	45.14	54.65	68.00	-13.35	peak	100	296	
2	10440.000	10.06	47.94	58.00	68.00	-10.00	peak			
3	15660.000	17.59	46.10	63.69	74.00	-10.31	peak			
4	15660.000	17.59	33.11	50.70	54.00	-3.30	AVG			

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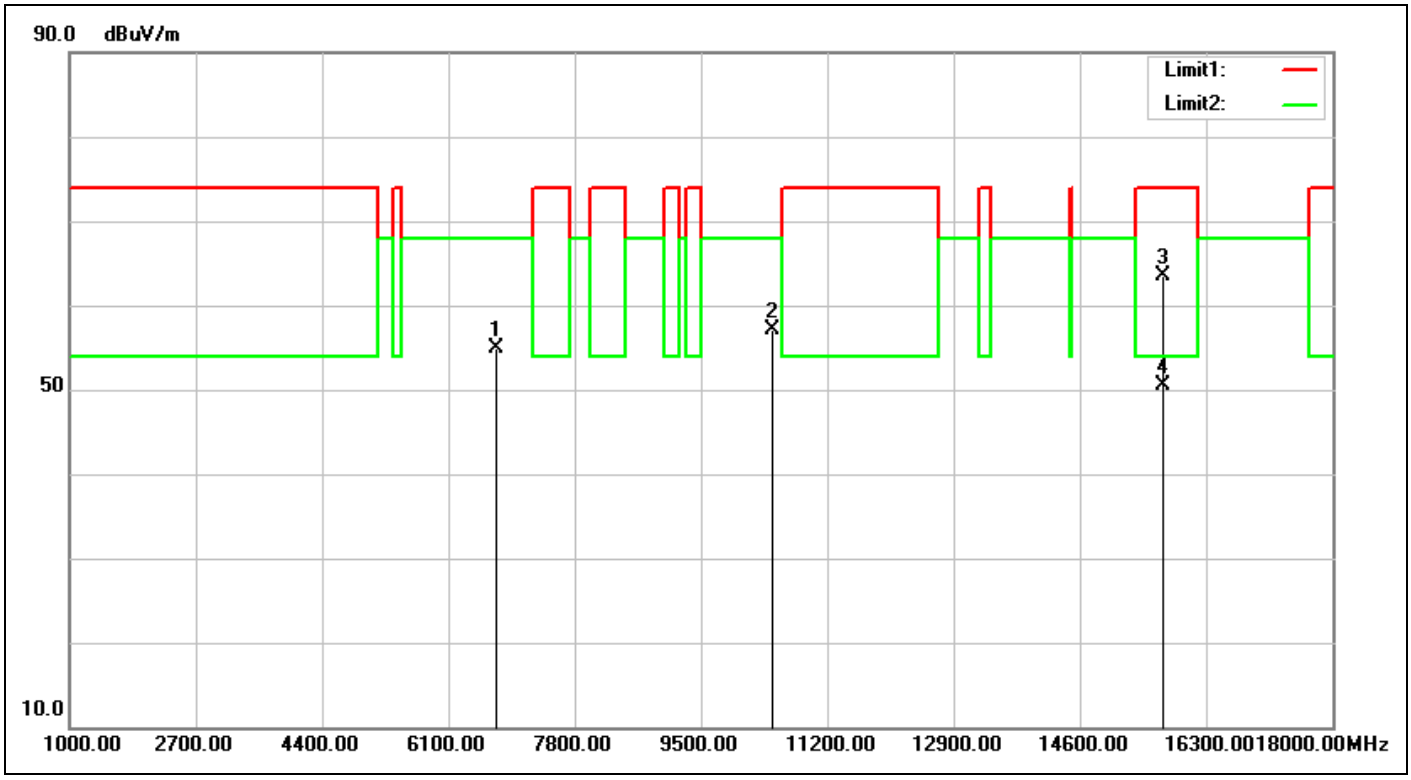

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:35:44**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	45.47	54.98	68.00	-13.02	peak	100	103	
2	10480.000	9.98	47.13	57.11	68.00	-10.89	peak			
3	15720.000	17.75	45.83	63.58	74.00	-10.42	peak			
4	15720.000	17.75	32.85	50.60	54.00	-3.40	AVG			

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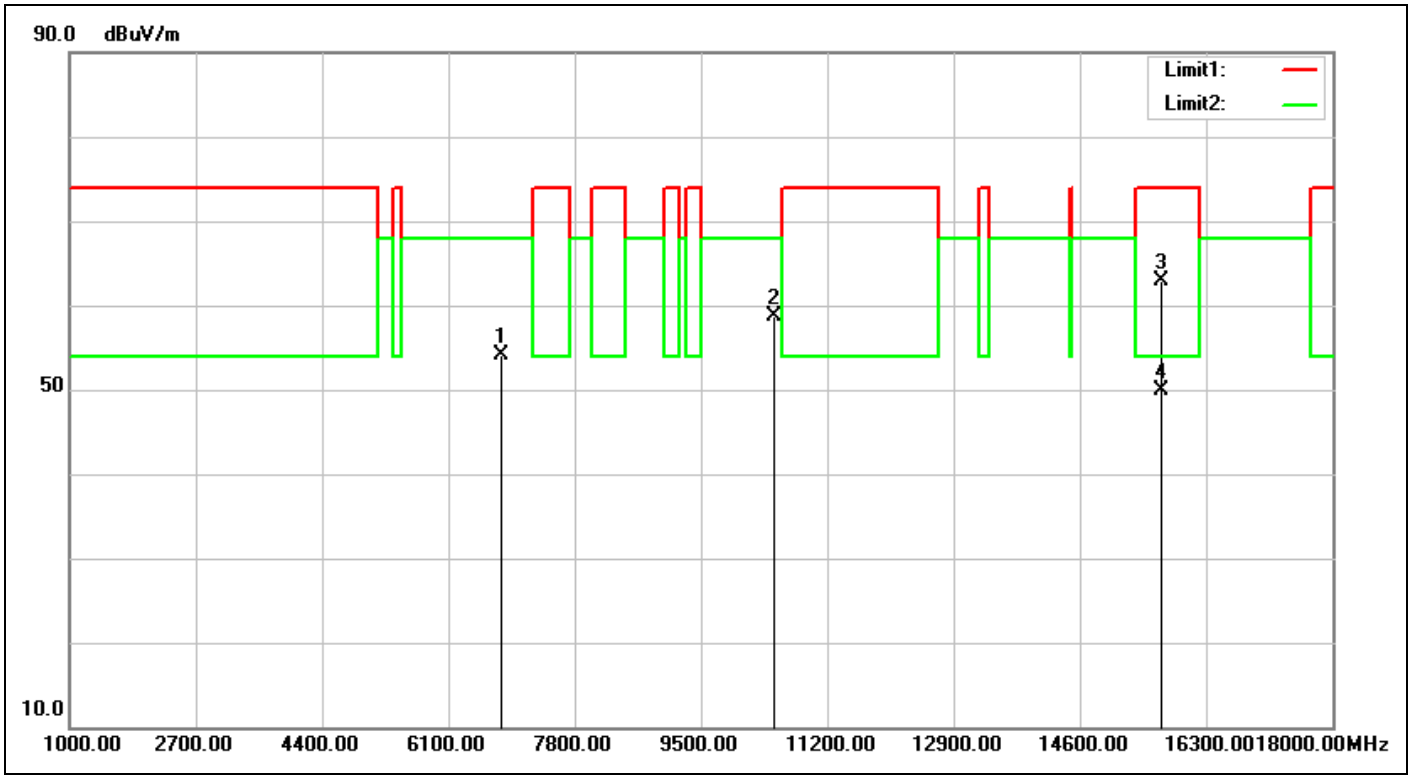

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:36:46**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6814.000	9.45	44.61	54.06	68.00	-13.94	peak	100	86	
2	10480.000	9.98	48.71	58.69	68.00	-9.31	peak			
3	15720.000	17.75	45.15	62.90	74.00	-11.10	peak			
4	15720.000	17.75	32.15	49.90	54.00	-4.10	AVG			

Spurious Emissions, TX Mode, 1-18G , 5725-5850MHz

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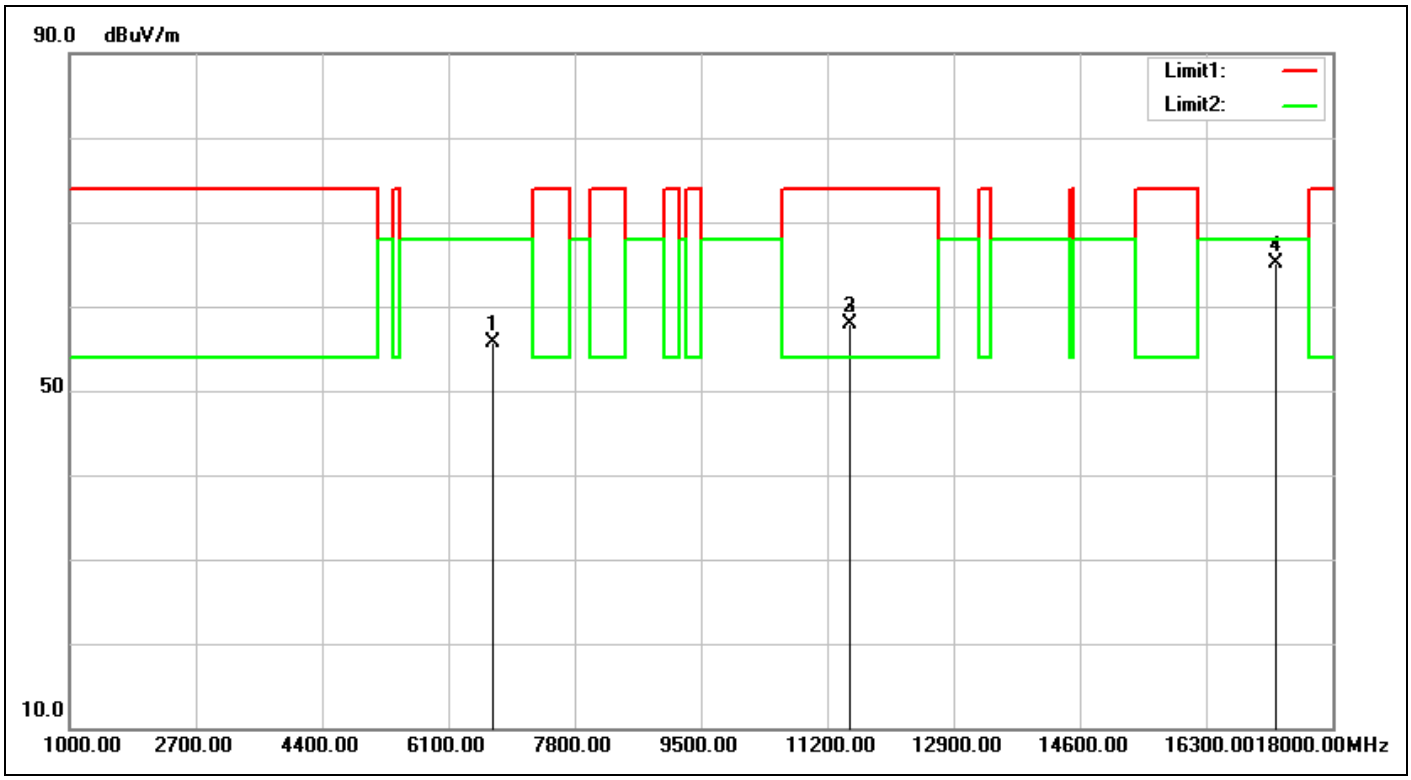

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:43:16**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6695.000	9.56	46.12	55.68	68.00	-12.32	peak	100	199	
2	11490.000	10.22	47.73	57.95	74.00	-16.05	peak			
3	11490.000	10.22	47.73	57.95	74.00	-16.05	peak			
4	17235.000	21.10	43.94	65.04	68.00	-2.96	peak			

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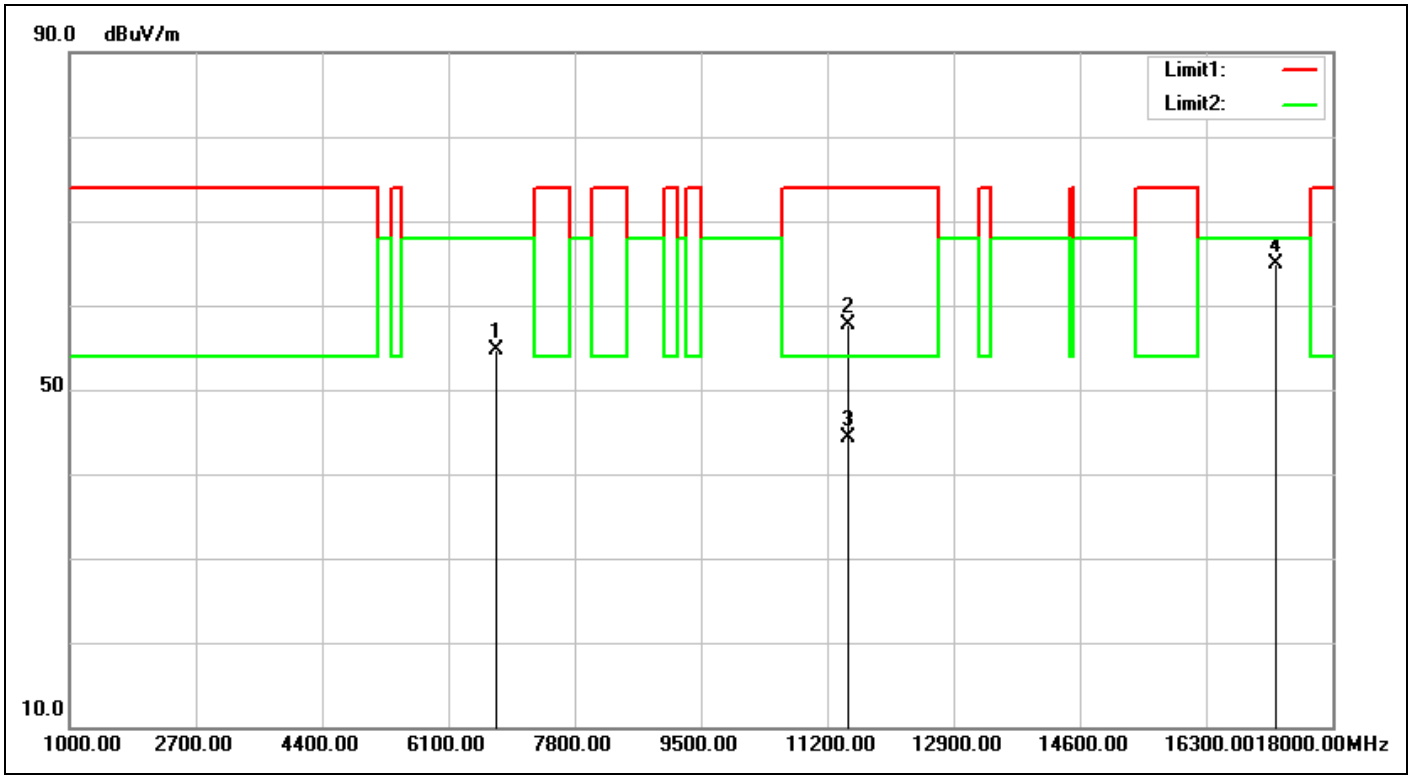

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:44:19**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	45.17	54.68	68.00	-13.32	peak	100	294	
2	11490.000	10.22	47.49	57.71	74.00	-16.29	peak			
3	11490.000	10.22	34.08	44.30	54.00	-9.70	AVG			
4	17235.000	21.10	43.78	64.88	68.00	-3.12	peak			

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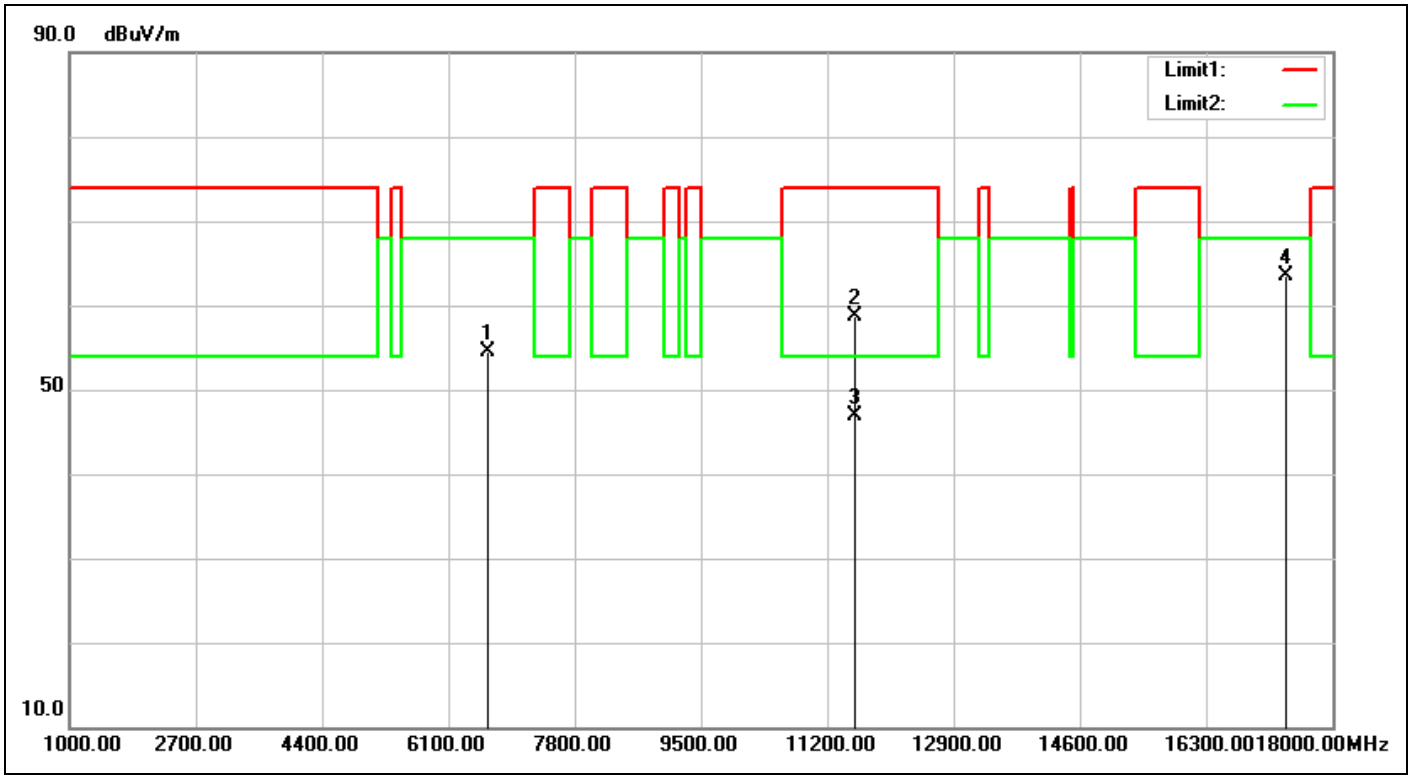

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:46:39**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6627.000	9.62	44.94	54.56	68.00	-13.44	peak	100	334	
2	11570.000	10.50	48.28	58.78	74.00	-15.22	peak			
3	11570.000	10.50	36.40	46.90	54.00	-7.10	AVG			
4	17355.000	20.85	42.57	63.42	68.00	-4.58	peak			

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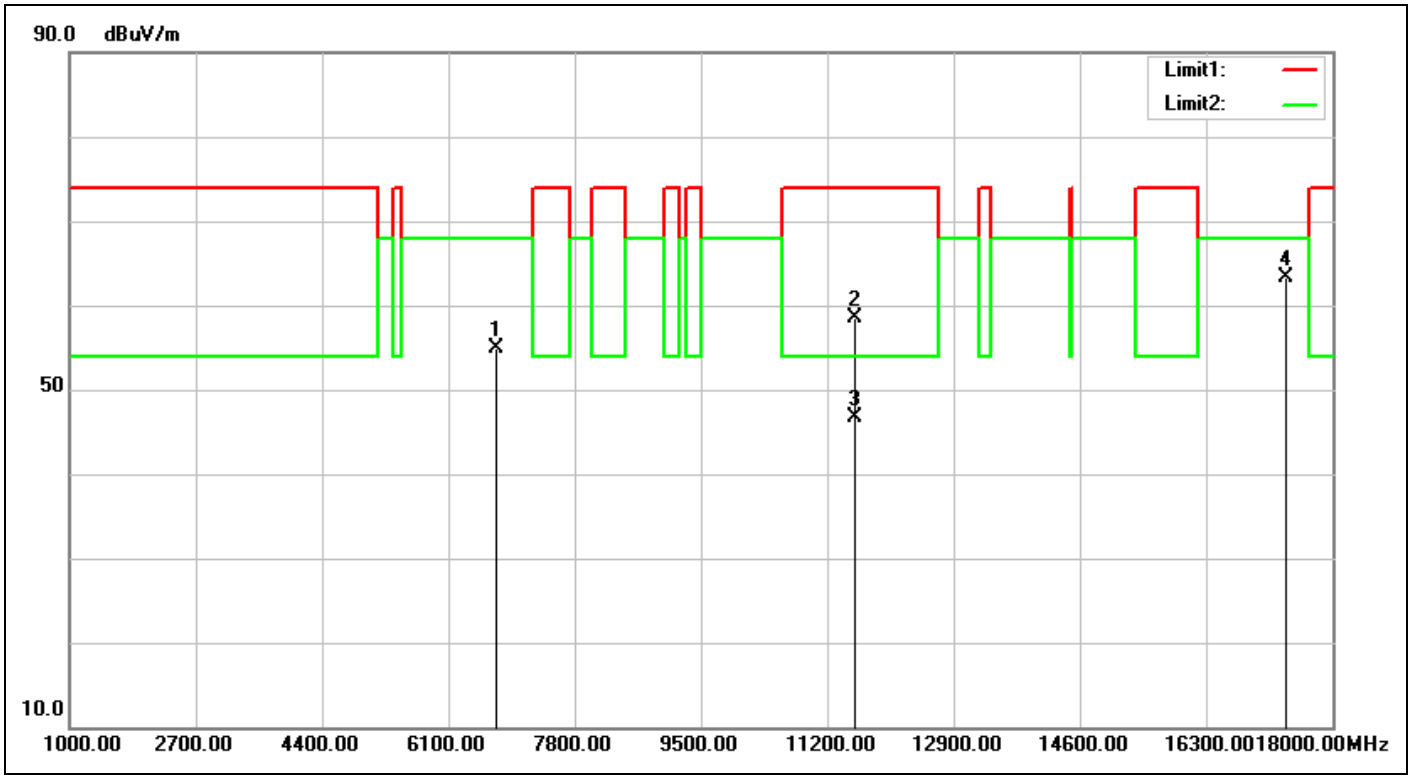

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:47:42**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	45.44	54.95	68.00	-13.05	peak	100	360	
2	11570.000	10.50	47.97	58.47	74.00	-15.53	peak			
3	11570.000	10.50	36.30	46.80	54.00	-7.20	AVG			
4	17355.000	20.85	42.36	63.21	68.00	-4.79	peak			

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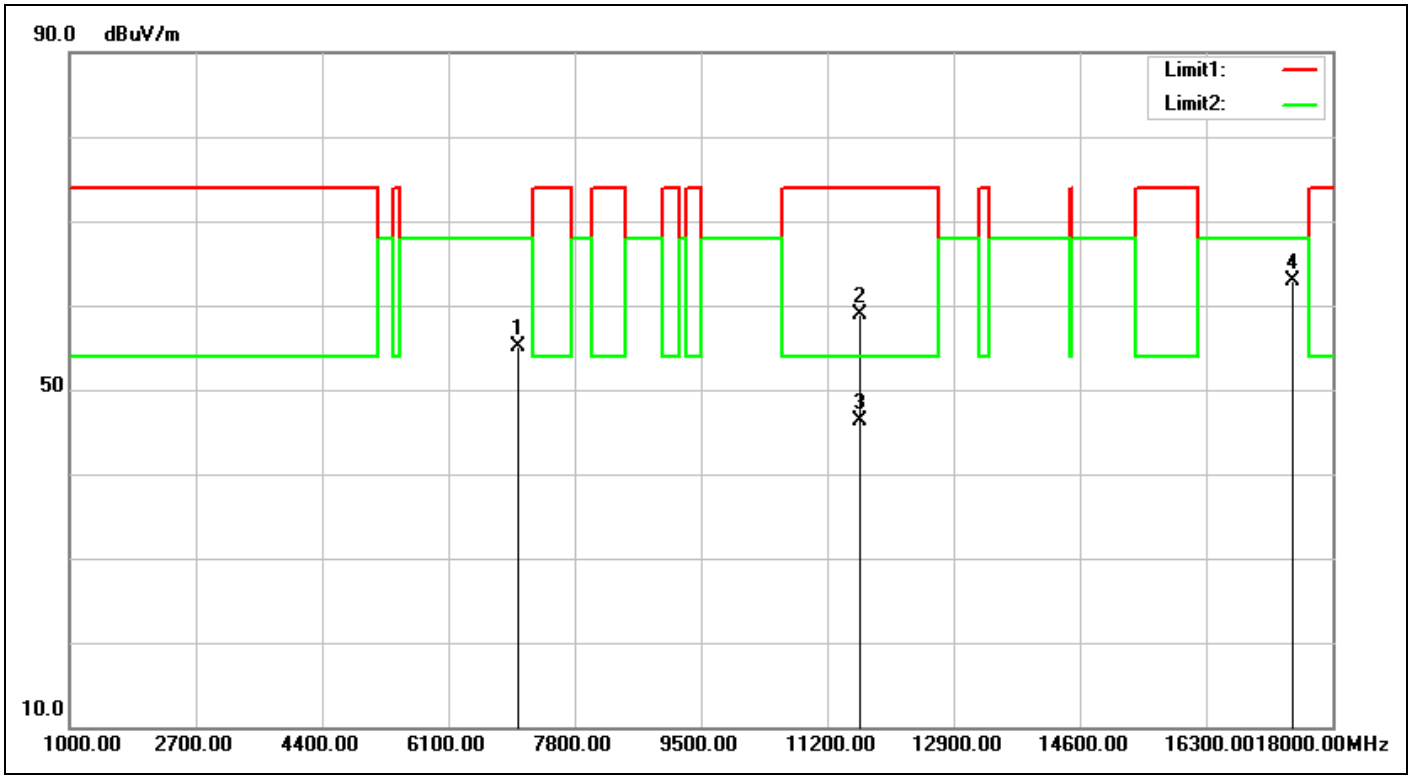

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:53:40**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	7035.000	9.38	45.78	55.16	68.00	-12.84	peak	100	170	
2	11650.000	10.80	48.01	58.81	74.00	-15.19	peak			
3	11650.000	10.80	35.50	46.30	54.00	-7.70	AVG			
4	17475.000	20.59	42.26	62.85	68.00	-5.15	peak			

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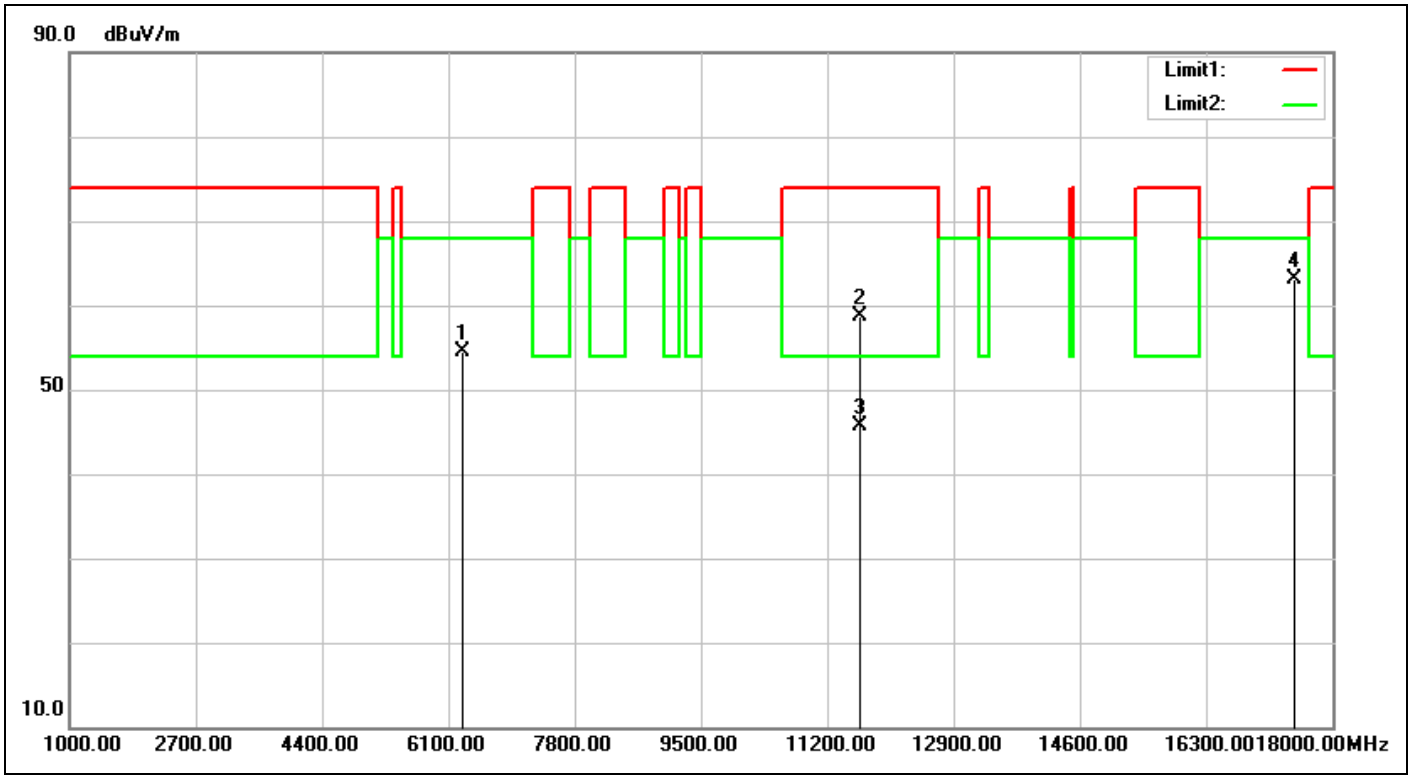

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 10:54:43**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6287.000	8.87	45.64	54.51	68.00	-13.49	peak	100	167	
2	11650.000	10.80	47.83	58.63	74.00	-15.37	peak			
3	11650.000	10.80	34.90	45.70	54.00	-8.30	AVG			
4	17475.000	20.59	42.52	63.11	68.00	-4.89	peak			

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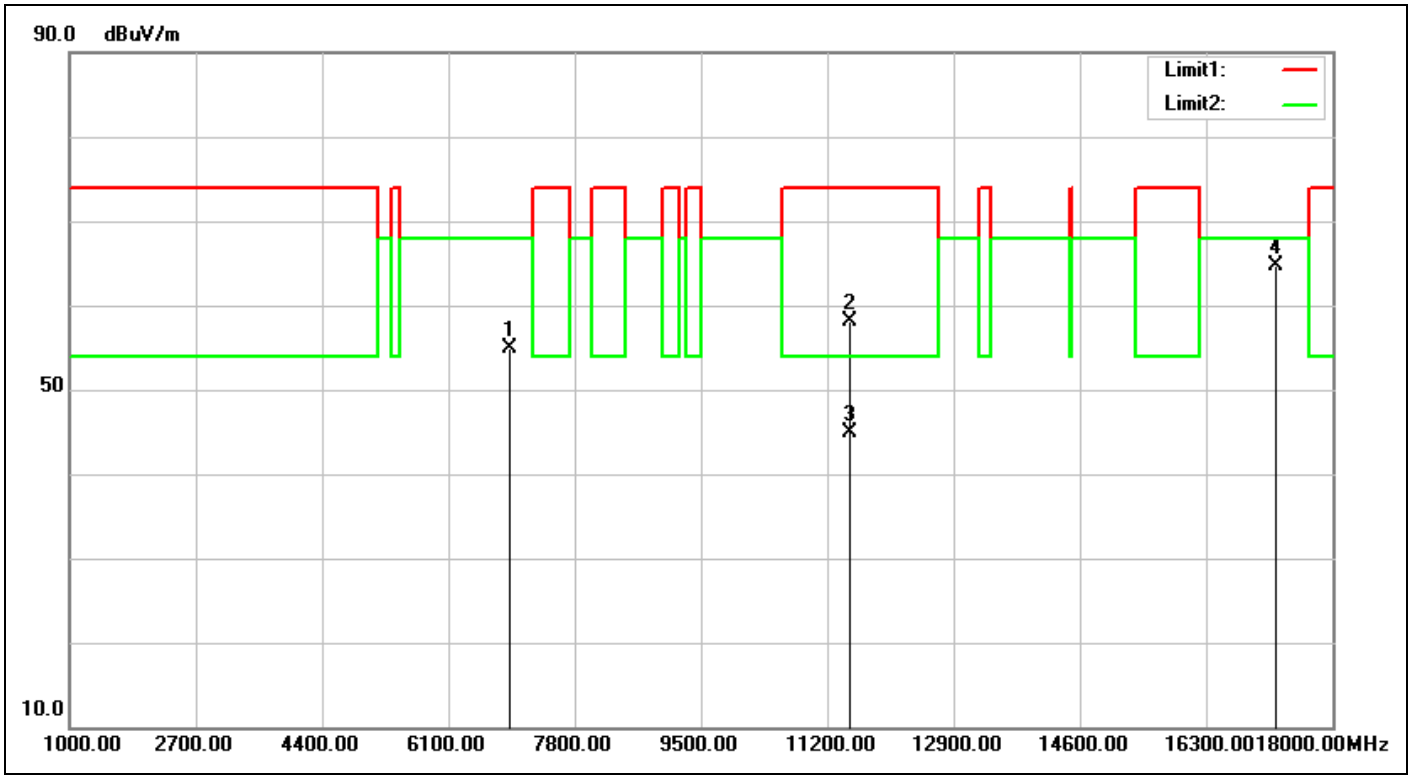

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:02:29**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6933.000	9.34	45.49	54.83	68.00	-13.17	peak	100	270	
2	11490.000	10.22	47.82	58.04	74.00	-15.96	peak			
3	11490.000	10.22	34.78	45.00	54.00	-9.00	AVG			
4	17235.000	21.10	43.59	64.69	68.00	-3.31	peak			

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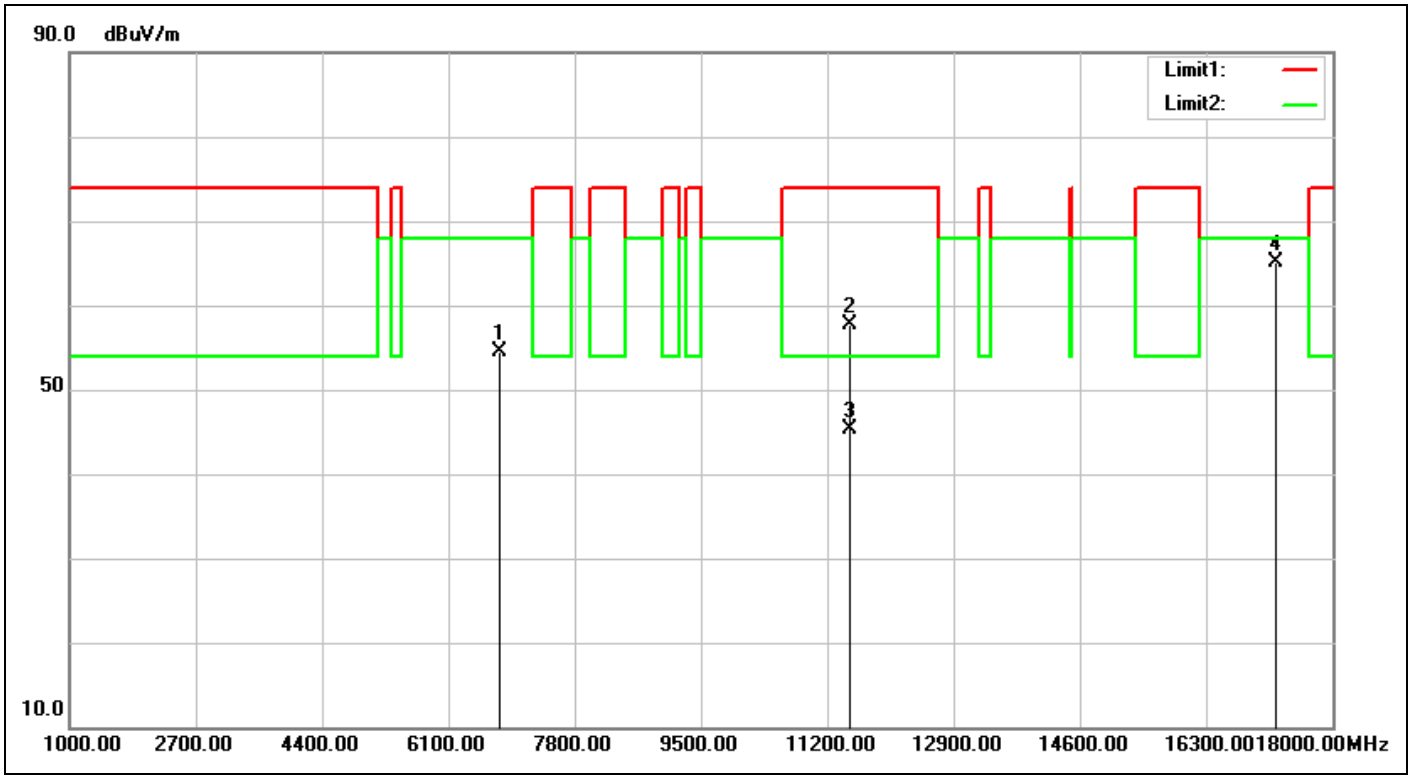

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:03:32**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6797.000	9.47	45.01	54.48	68.00	-13.52	peak	100	52	
2	11490.000	10.22	47.43	57.65	74.00	-16.35	peak			
3	11490.000	10.22	35.08	45.30	54.00	-8.70	AVG			
4	17235.000	21.10	44.07	65.17	68.00	-2.83	peak			

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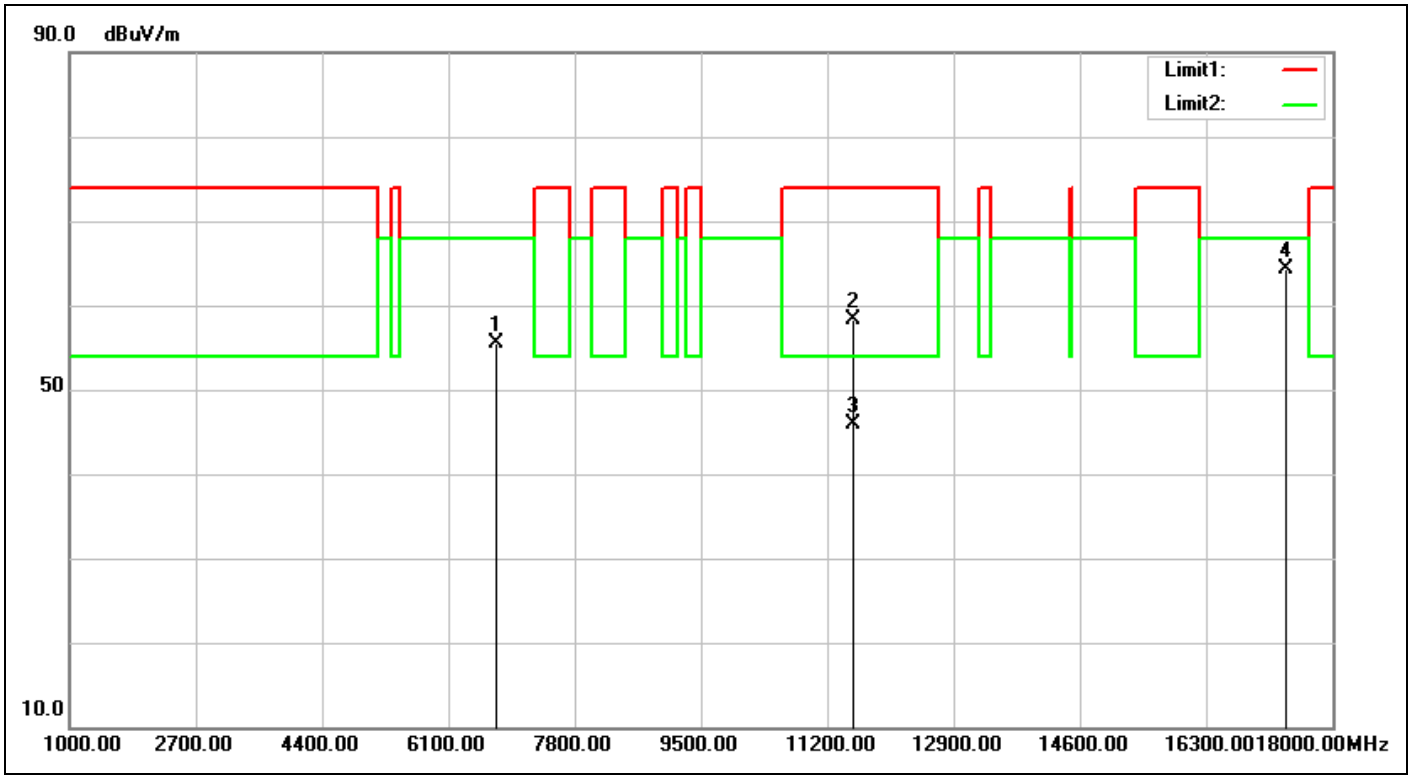

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:06:36**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	45.94	55.45	68.00	-12.55	peak	100	314	
2	11570.000	10.50	47.90	58.40	74.00	-15.60	peak			
3	11570.000	10.50	35.40	45.90	54.00	-8.10	AVG			
4	17355.000	20.85	43.47	64.32	68.00	-3.68	peak			

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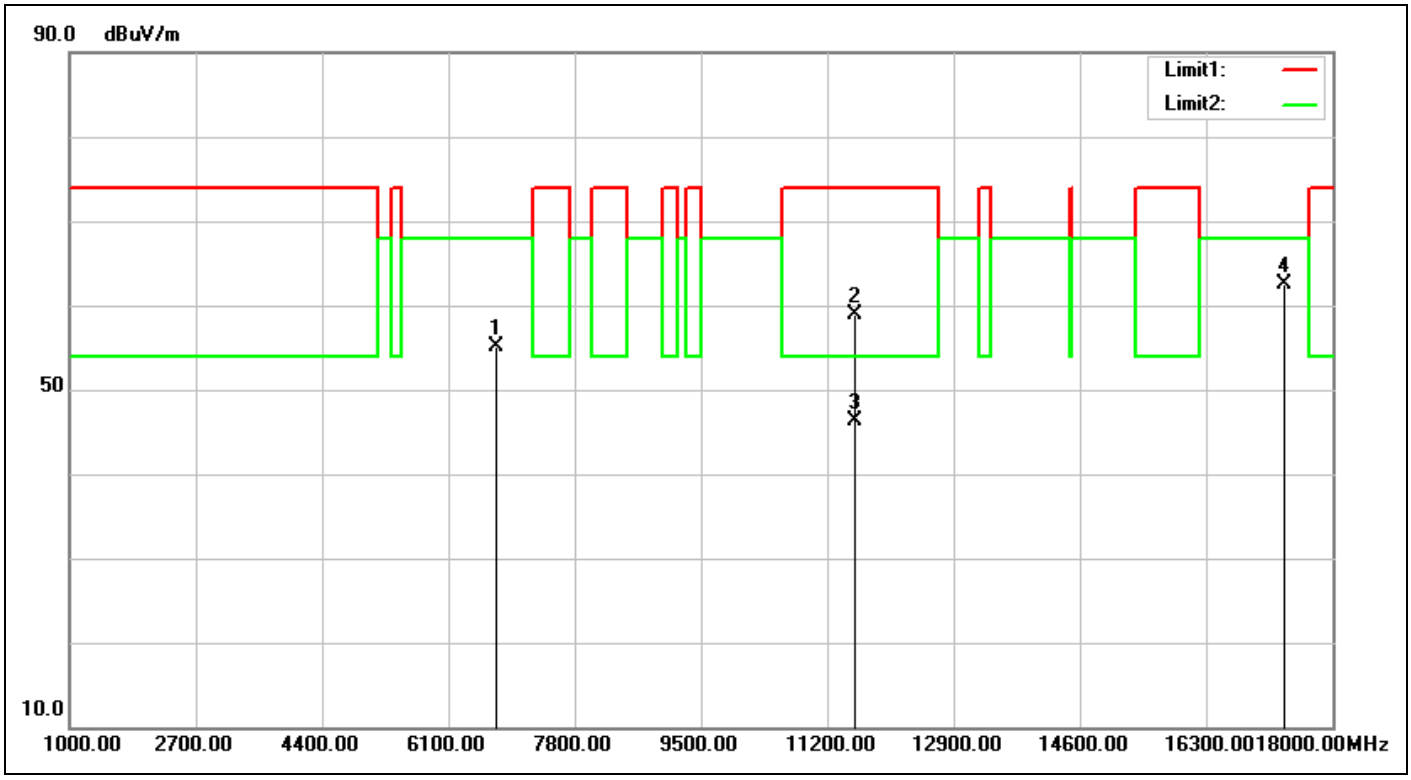

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:07:39**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6746.000	9.51	45.53	55.04	68.00	-12.96	peak	100	17	
2	11570.000	10.50	48.34	58.84	74.00	-15.16	peak			
3	11570.000	10.50	35.80	46.30	54.00	-7.70	AVG			
4	17355.000	20.85	41.71	62.56	68.00	-5.44	peak			

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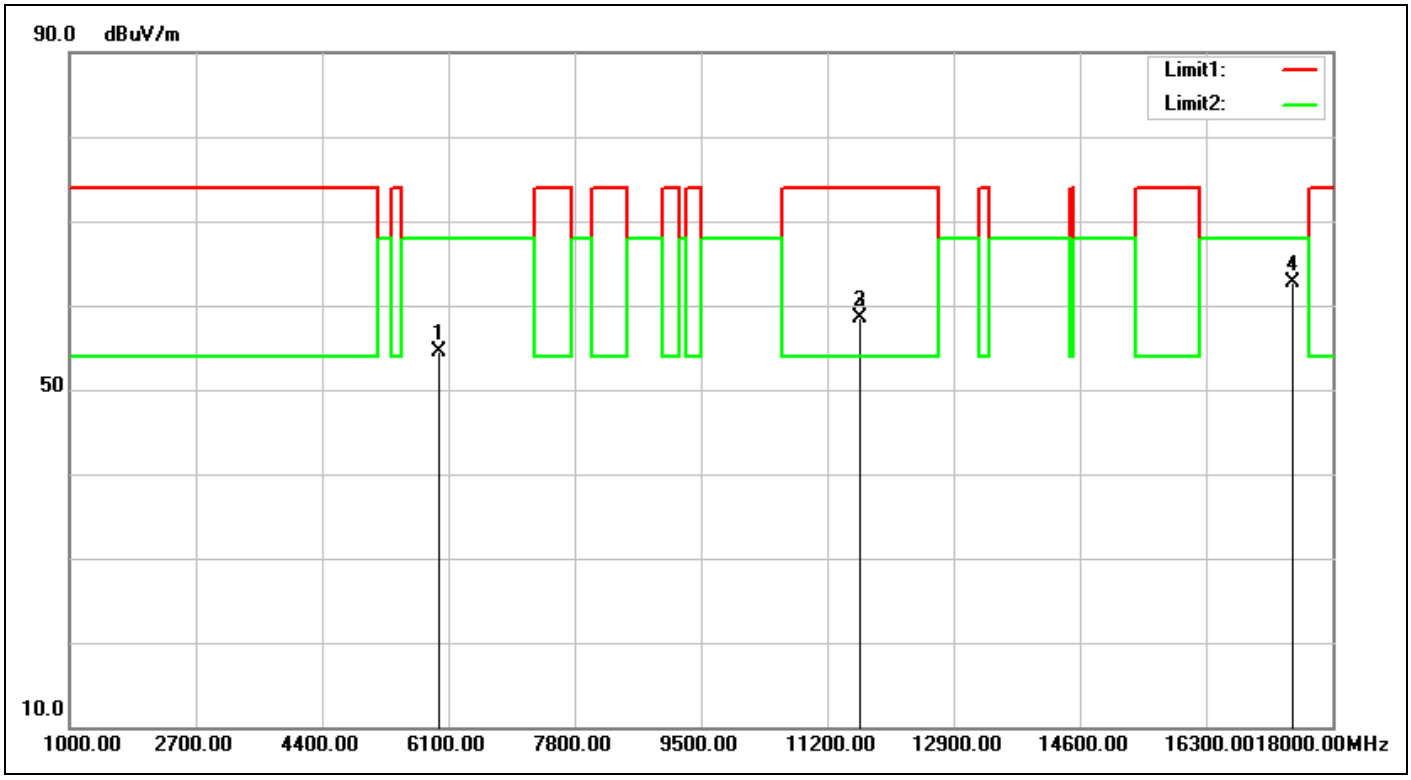

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:13:39**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	5964.000	7.44	47.00	54.44	68.00	-13.56	peak	100	357	
2	11650.000	10.80	47.71	58.51	74.00	-15.49	peak			
3	11650.000	10.80	47.71	58.51	74.00	-15.49	peak			
4	17475.000	20.59	42.17	62.76	68.00	-5.24	peak			

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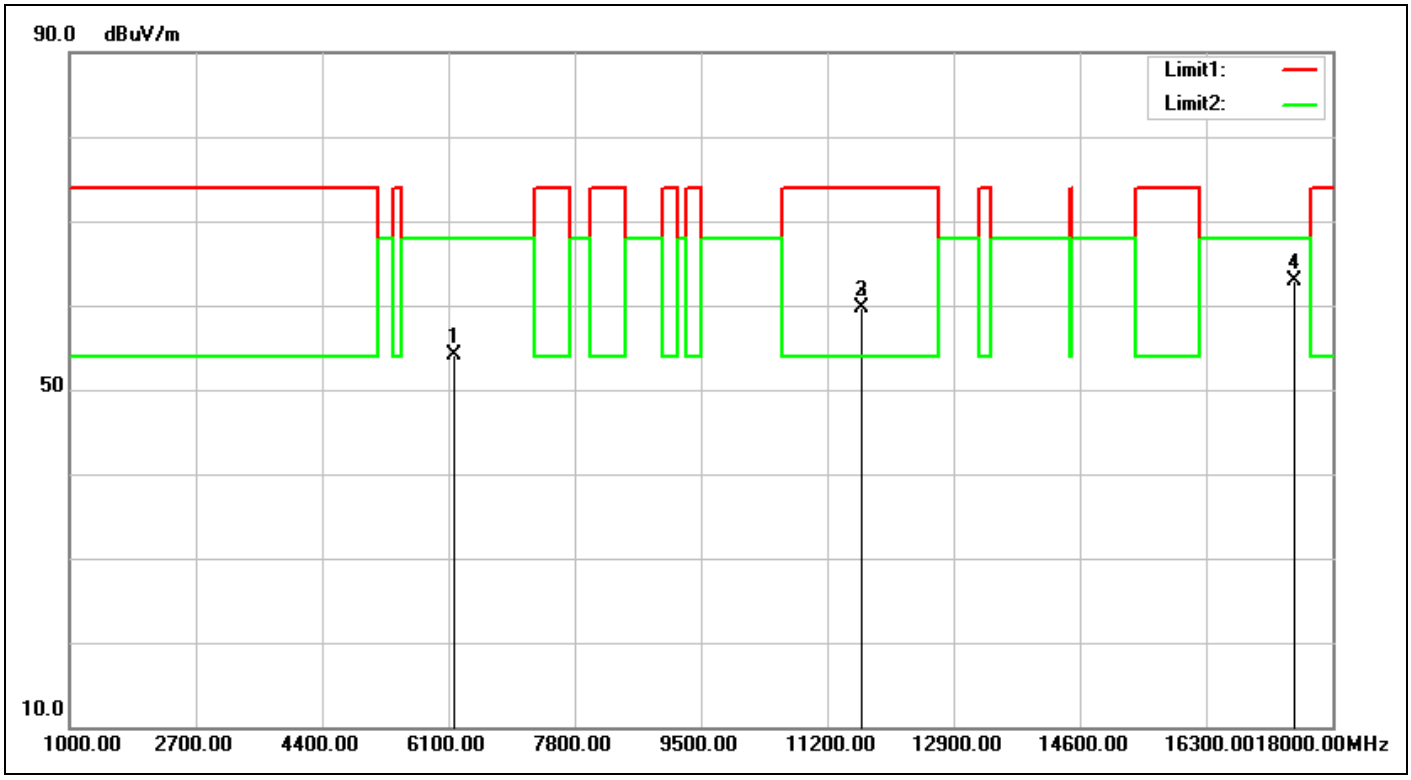

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:14:42**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6185.000	8.44	45.76	54.20	68.00	-13.80	peak	100	179	
2	11650.000	10.80	48.98	59.78	74.00	-14.22	peak			
3	11650.000	10.80	48.98	59.78	74.00	-14.22	peak			
4	17475.000	20.59	42.41	63.00	68.00	-5.00	peak			

Spurious Emissions, TX Mode, 18-40G , 5150-5250MHz

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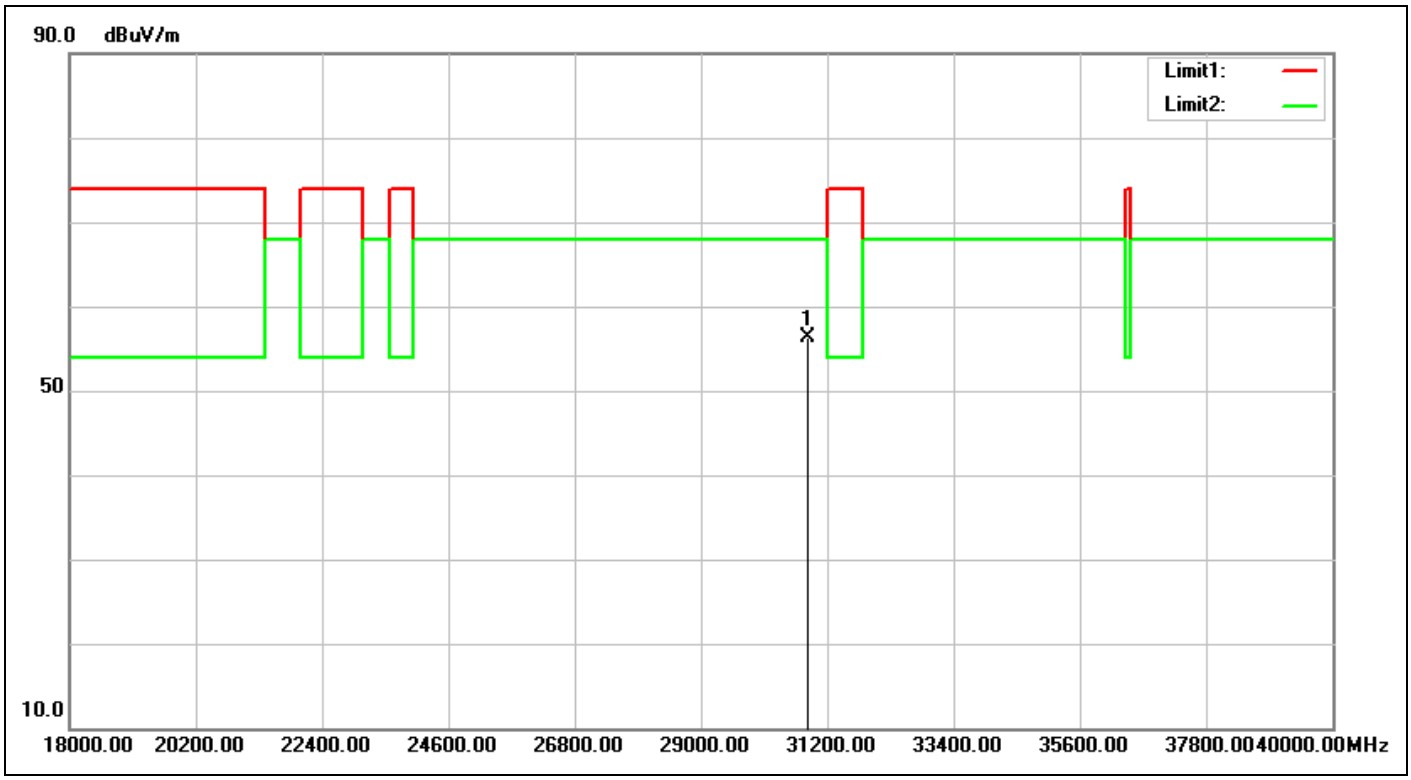

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:04:49**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30848.000	38.63	17.60	56.23	68.00	-11.77	peak			

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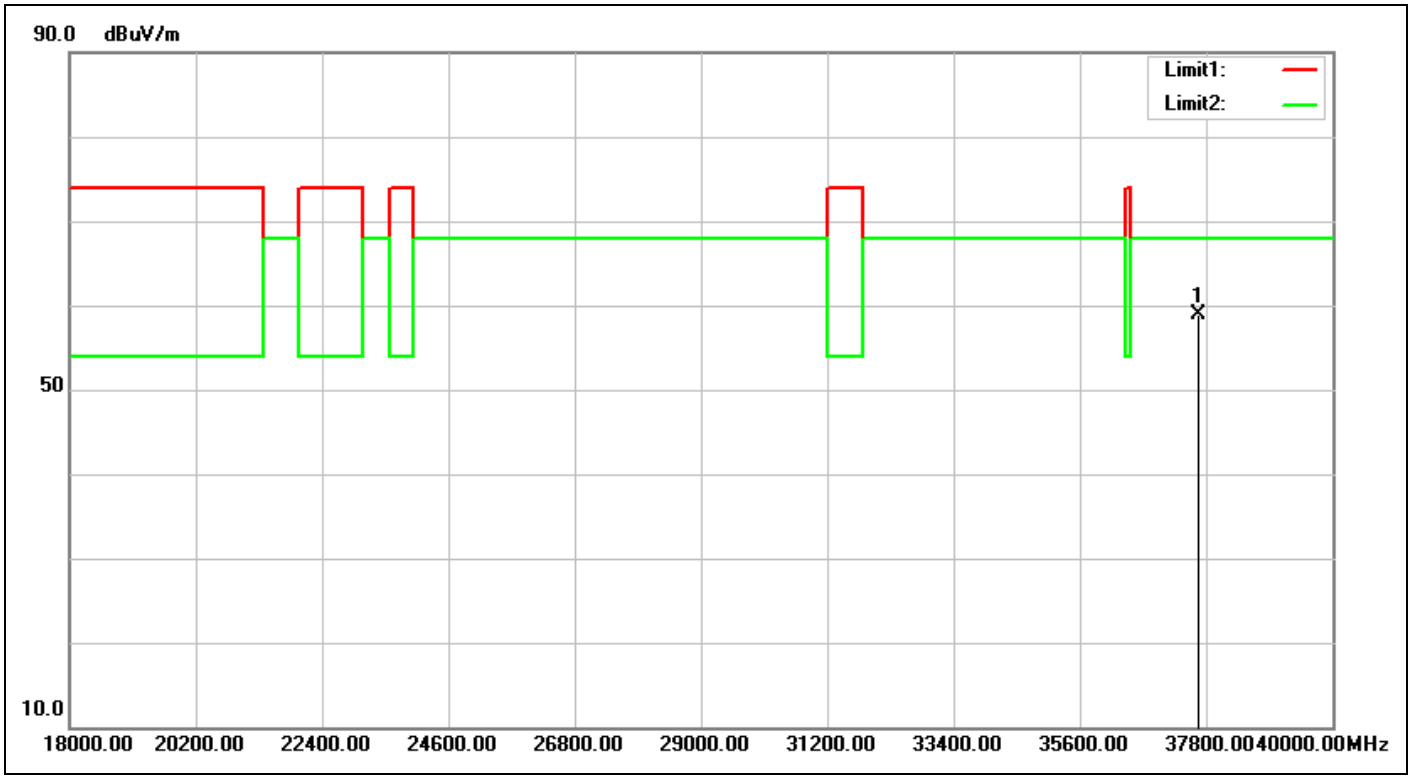

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:04:59**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	37668.000	39.70	19.14	58.84	68.00	-9.16	peak			

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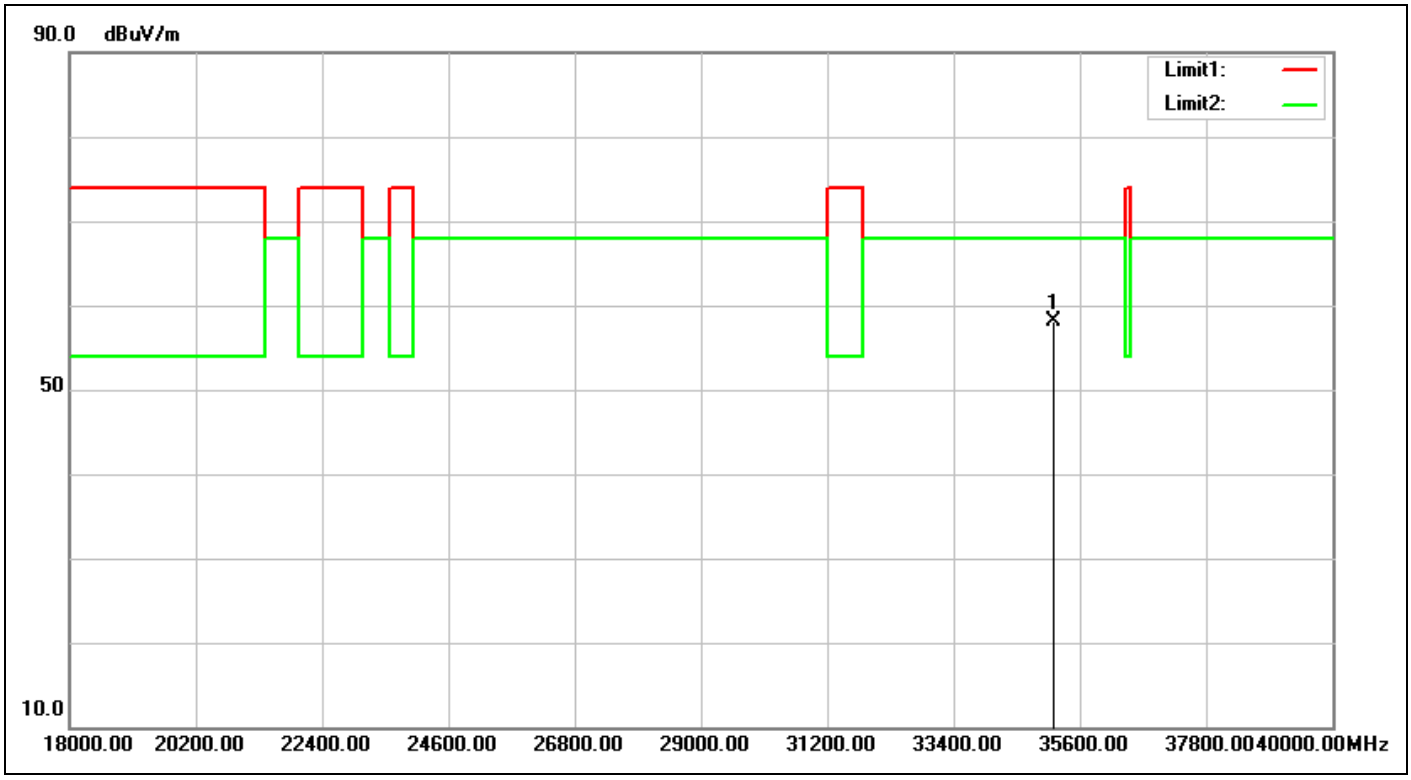

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:05:15**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35138.000	39.86	18.25	58.11	68.00	-9.89	peak			

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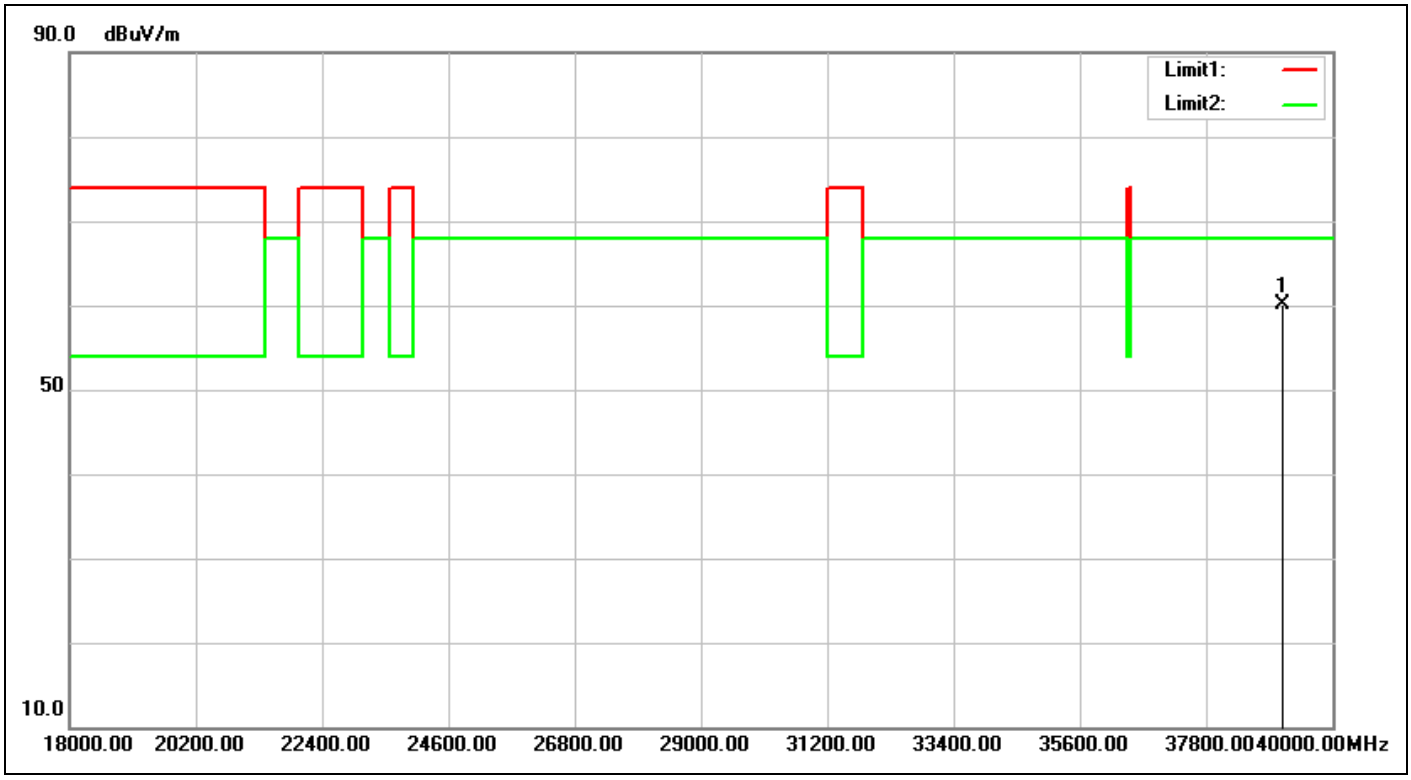

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:05:22**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39120.000	39.97	20.12	60.09	68.00	-7.91	peak			

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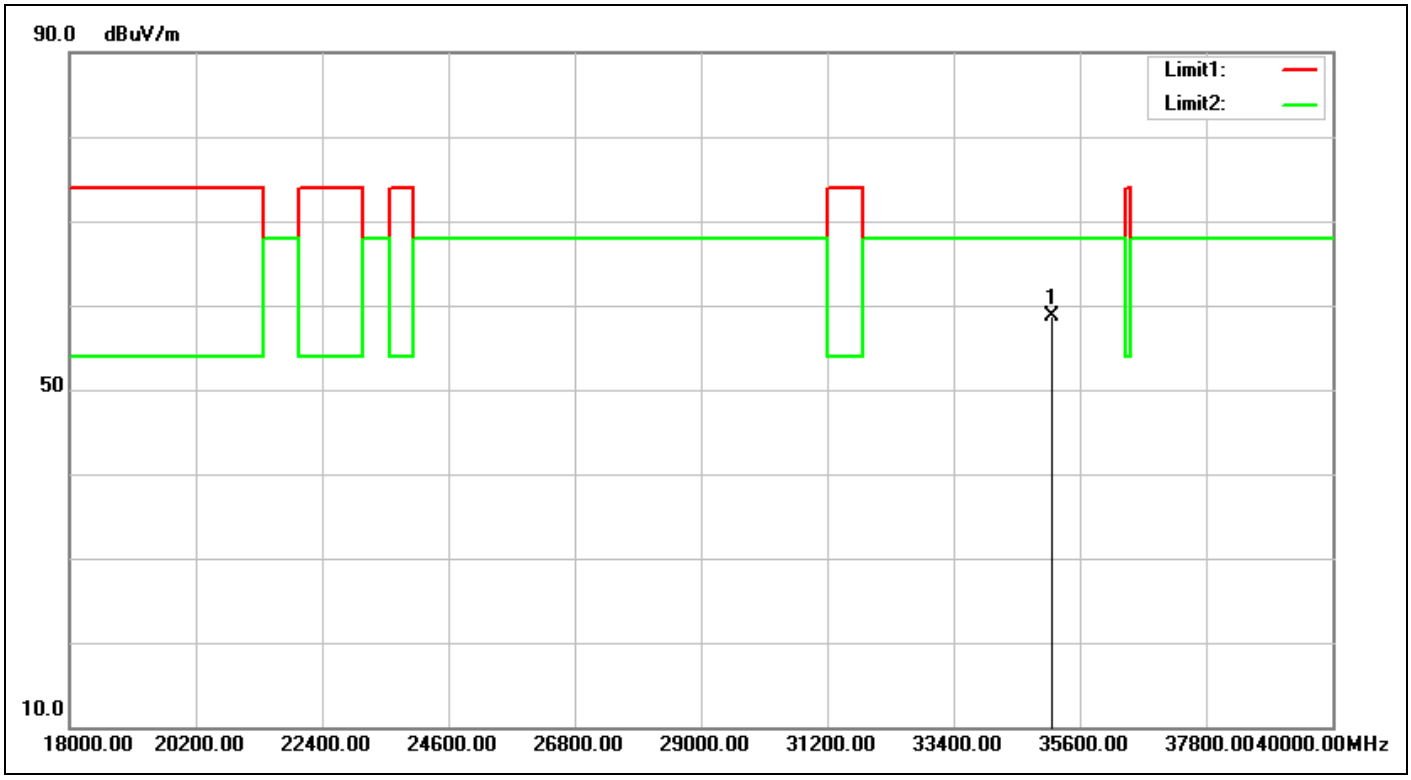

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:05:37**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35116.000	39.90	18.71	58.61	68.00	-9.39	peak			

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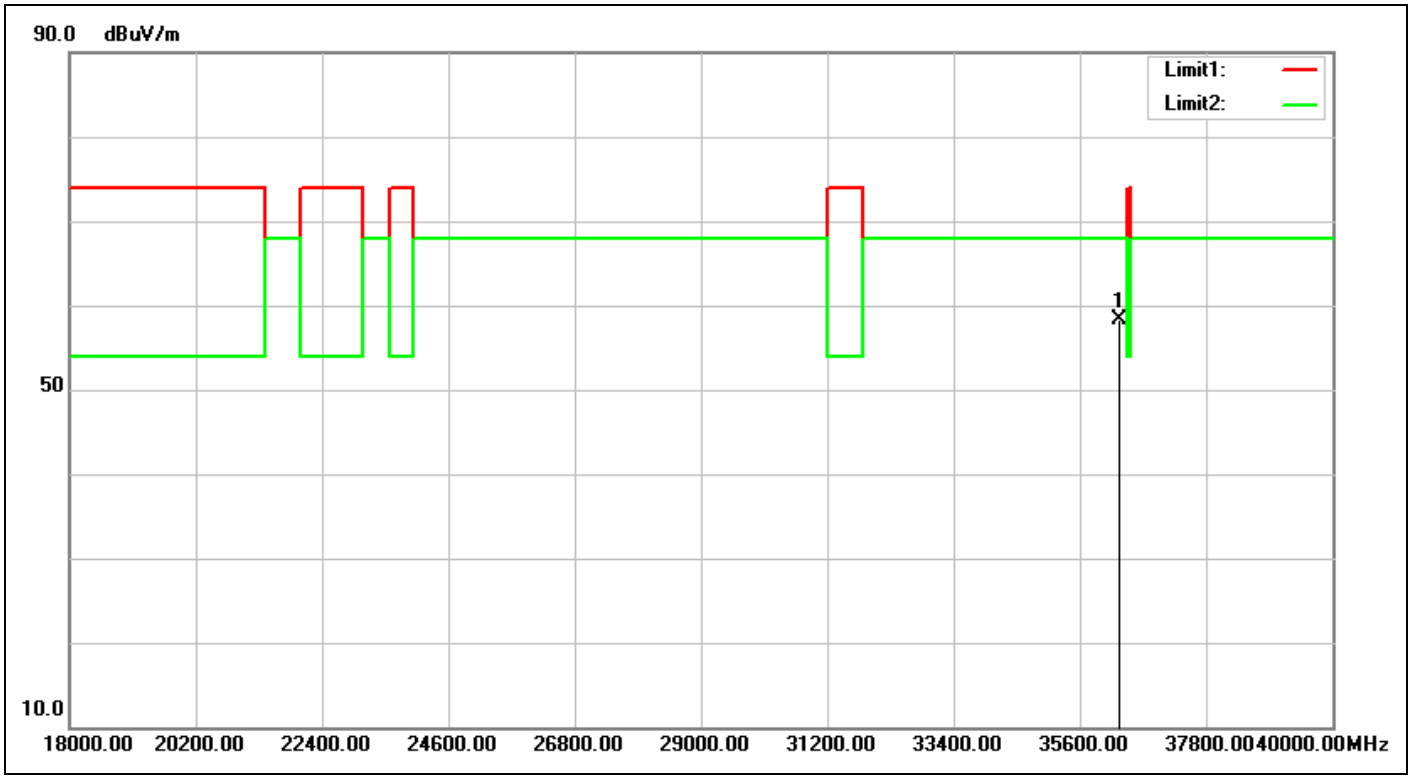

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:05:44**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	36282.000	39.88	18.42	58.30	68.00	-9.70	peak			

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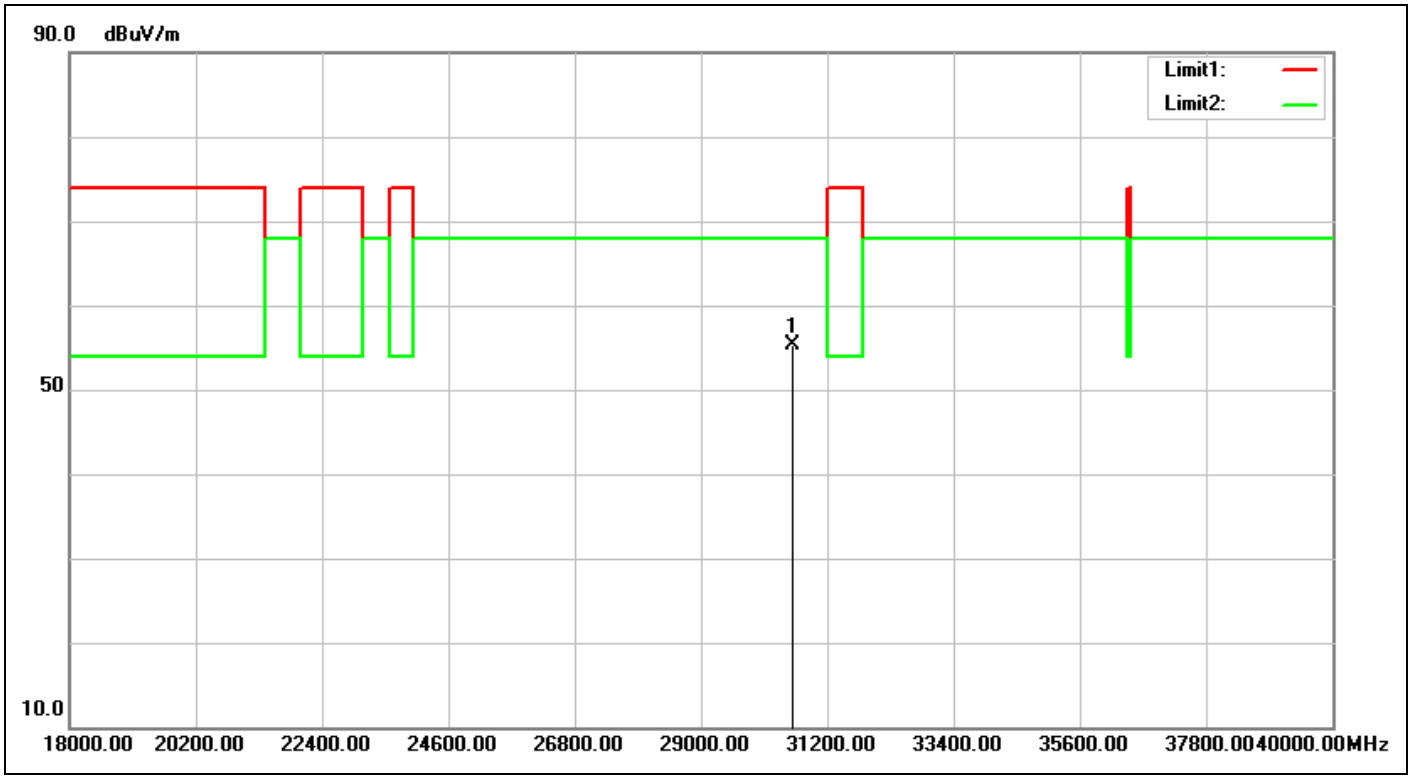

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:05:58**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30584.000	38.22	17.05	55.27	68.00	-12.73	peak			

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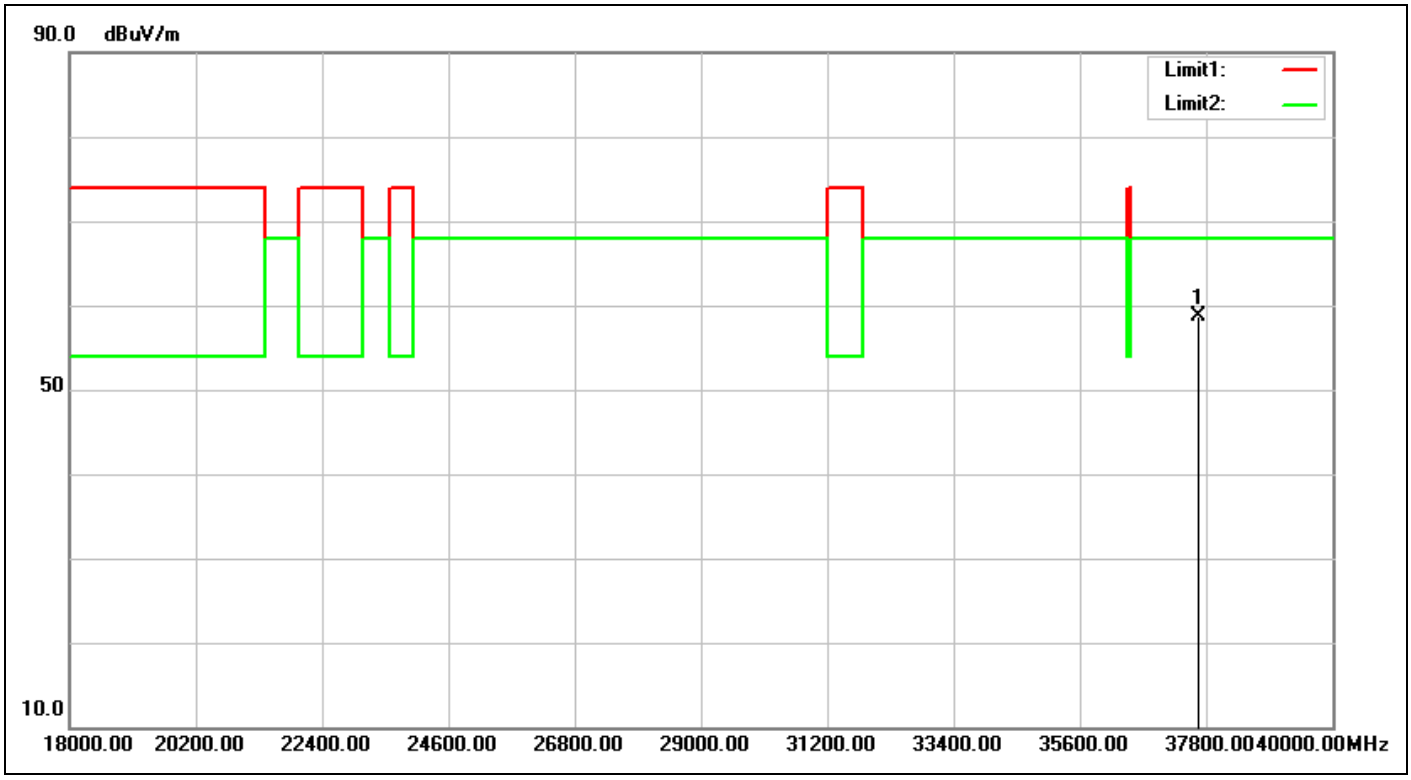

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:06:07**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	37668.000	39.70	18.99	58.69	68.00	-9.31	peak			

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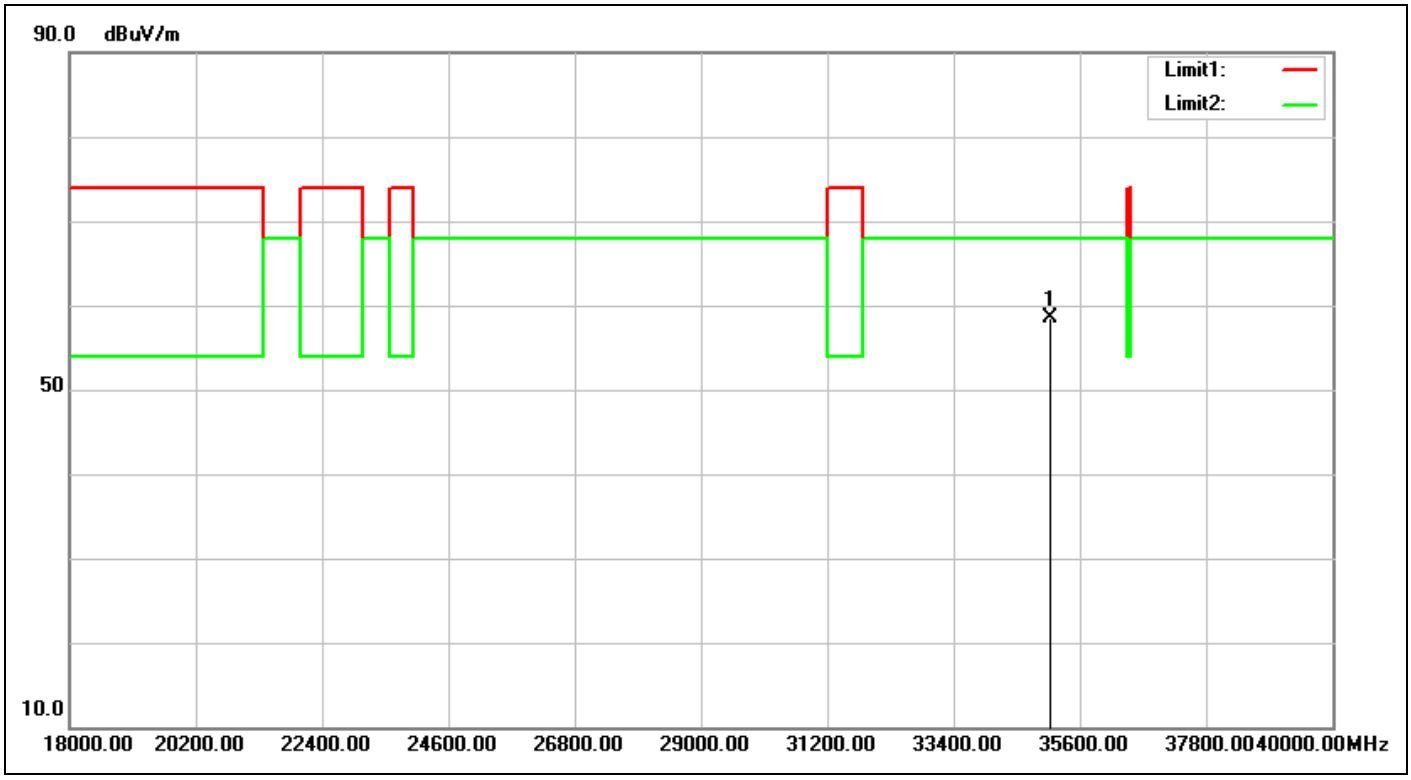

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:06:25**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35094.000	39.93	18.67	58.60	68.00	-9.40	peak			

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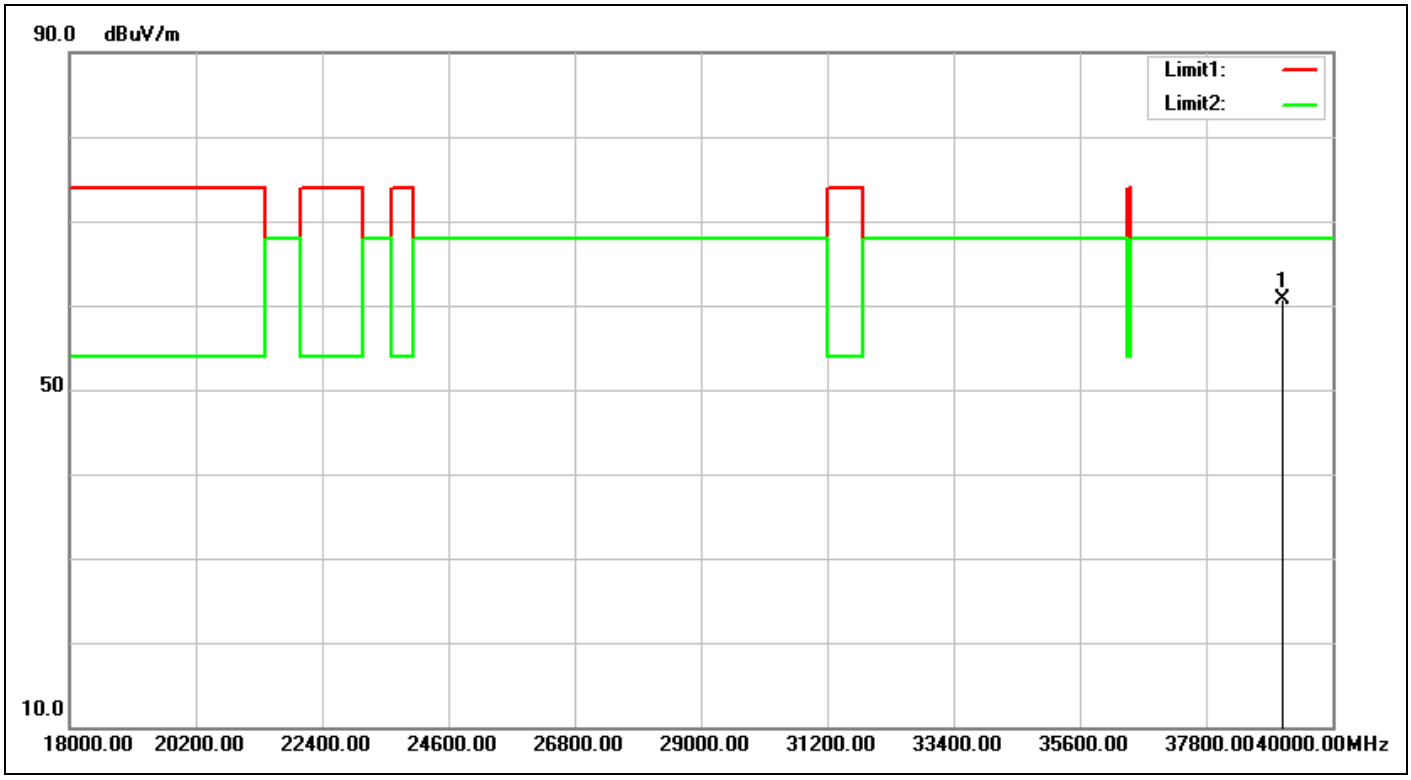

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:06:33**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5180-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39142.000	40.05	20.75	60.80	68.00	-7.20	peak			

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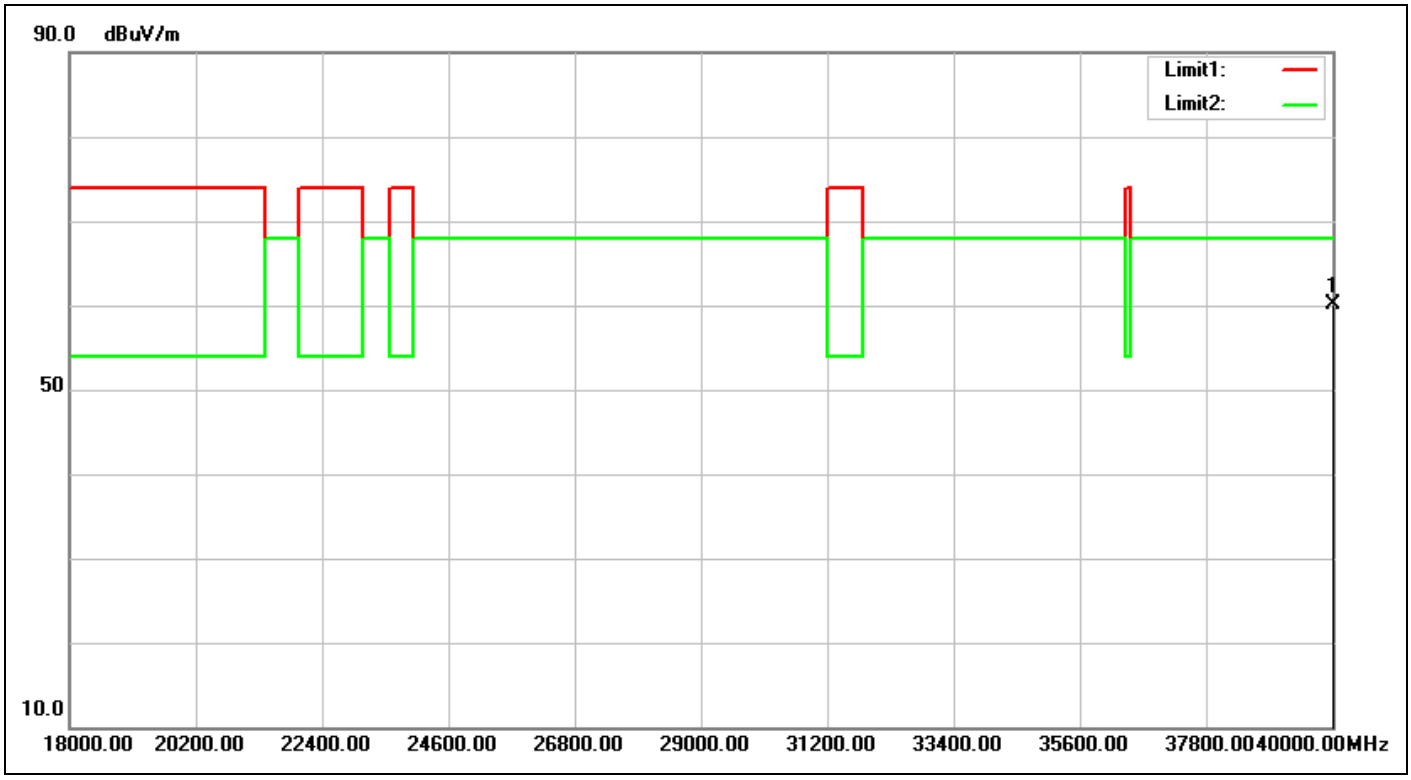

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:06:46**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	40000.000	42.89	17.13	60.02	68.00	-7.98	peak			

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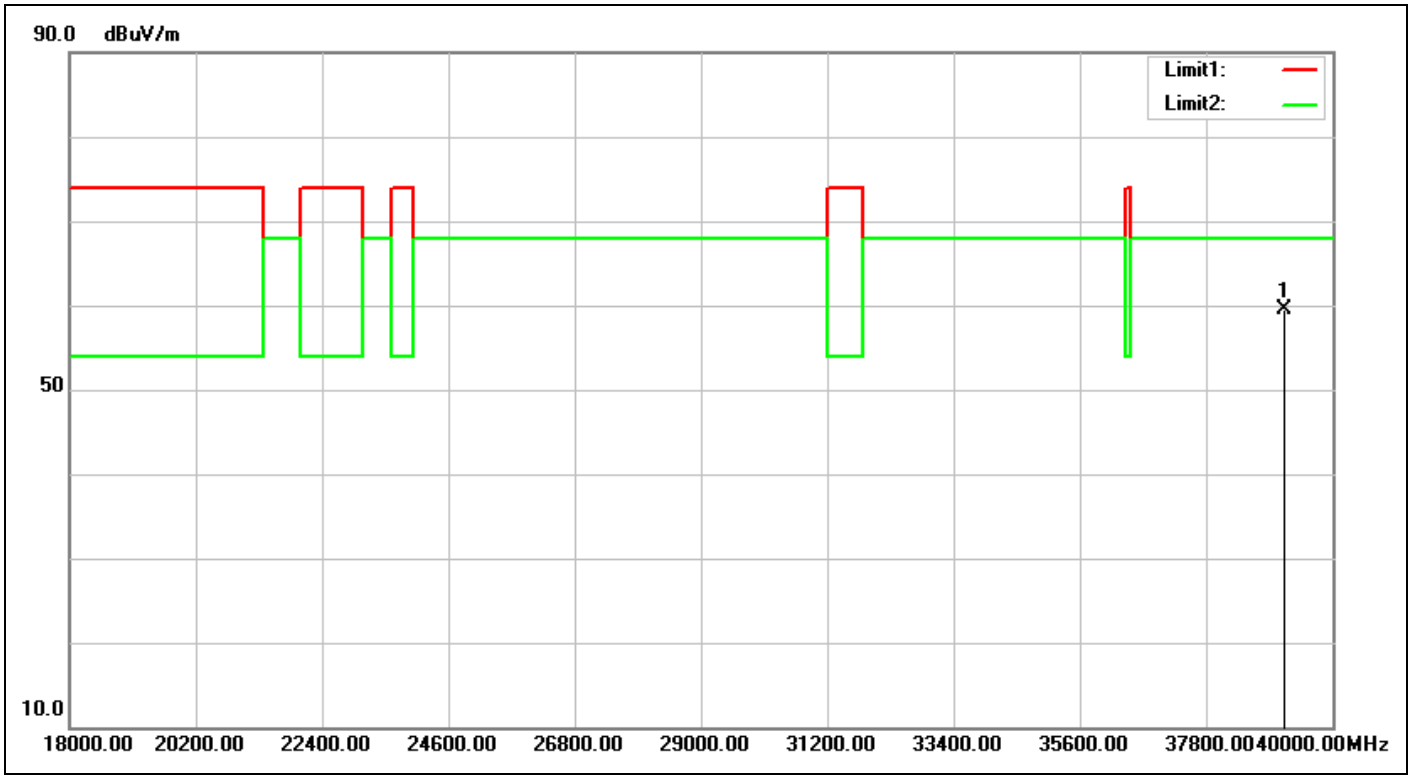

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:06:50**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39164.000	40.14	19.42	59.56	68.00	-8.44	peak			

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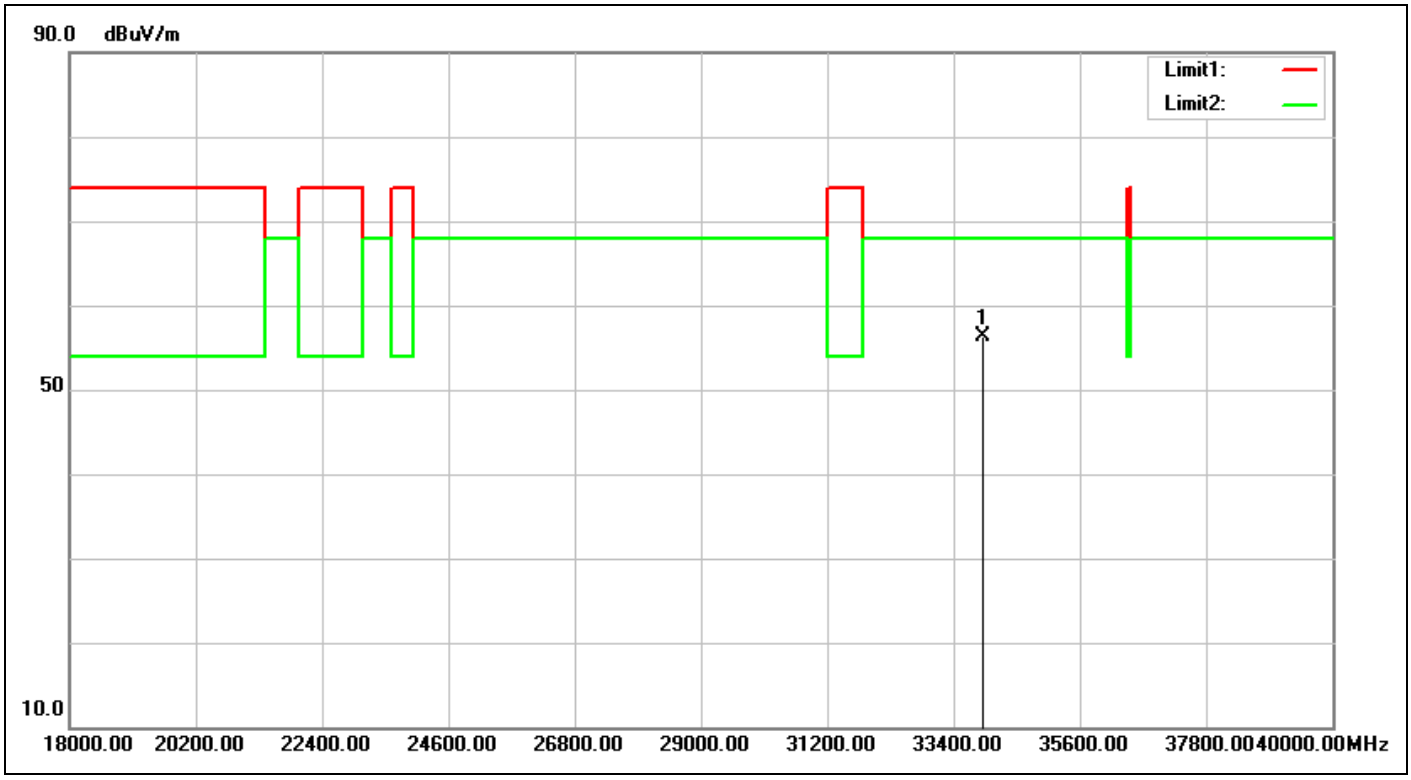

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:07:11**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	33906.000	39.56	16.67	56.23	68.00	-11.77	peak			

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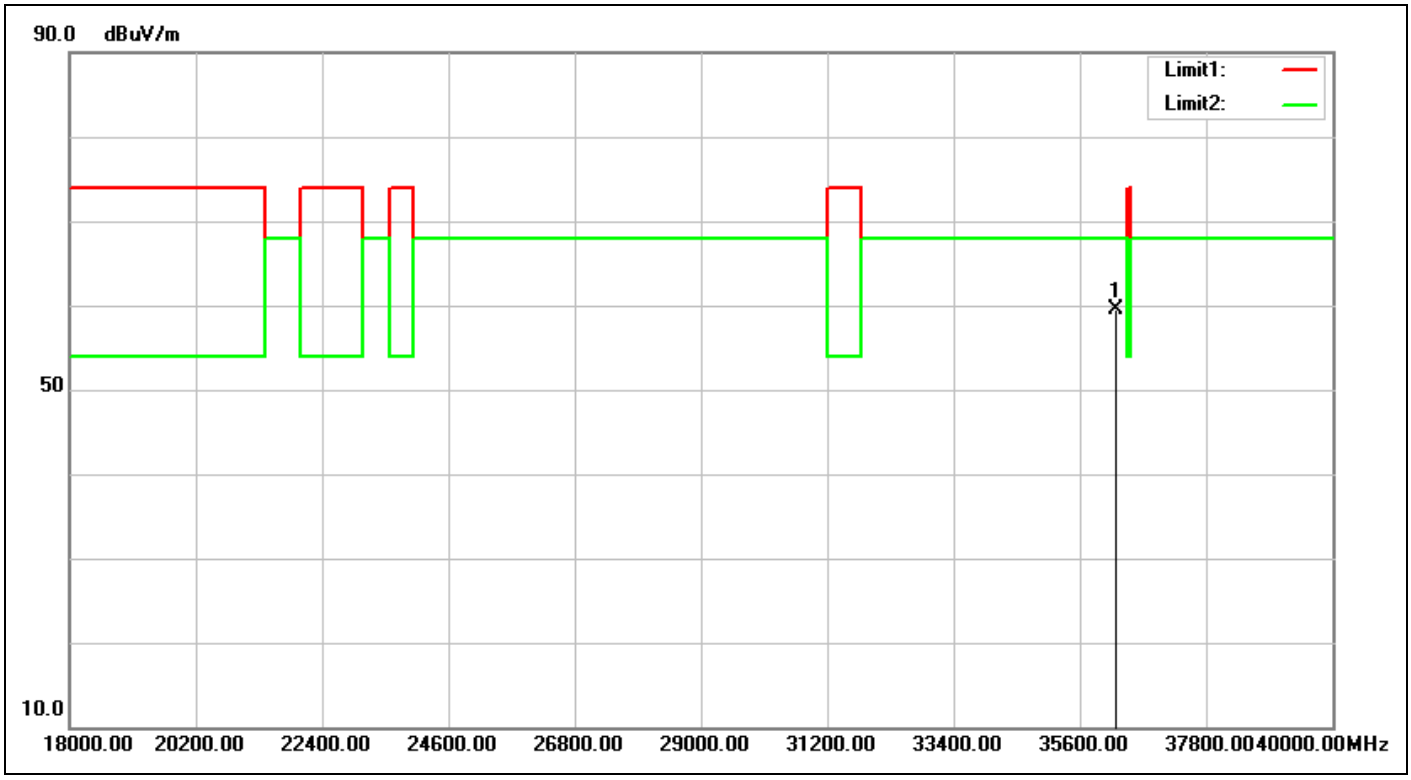

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:07:20**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	36238.000	39.86	19.70	59.56	68.00	-8.44	peak			

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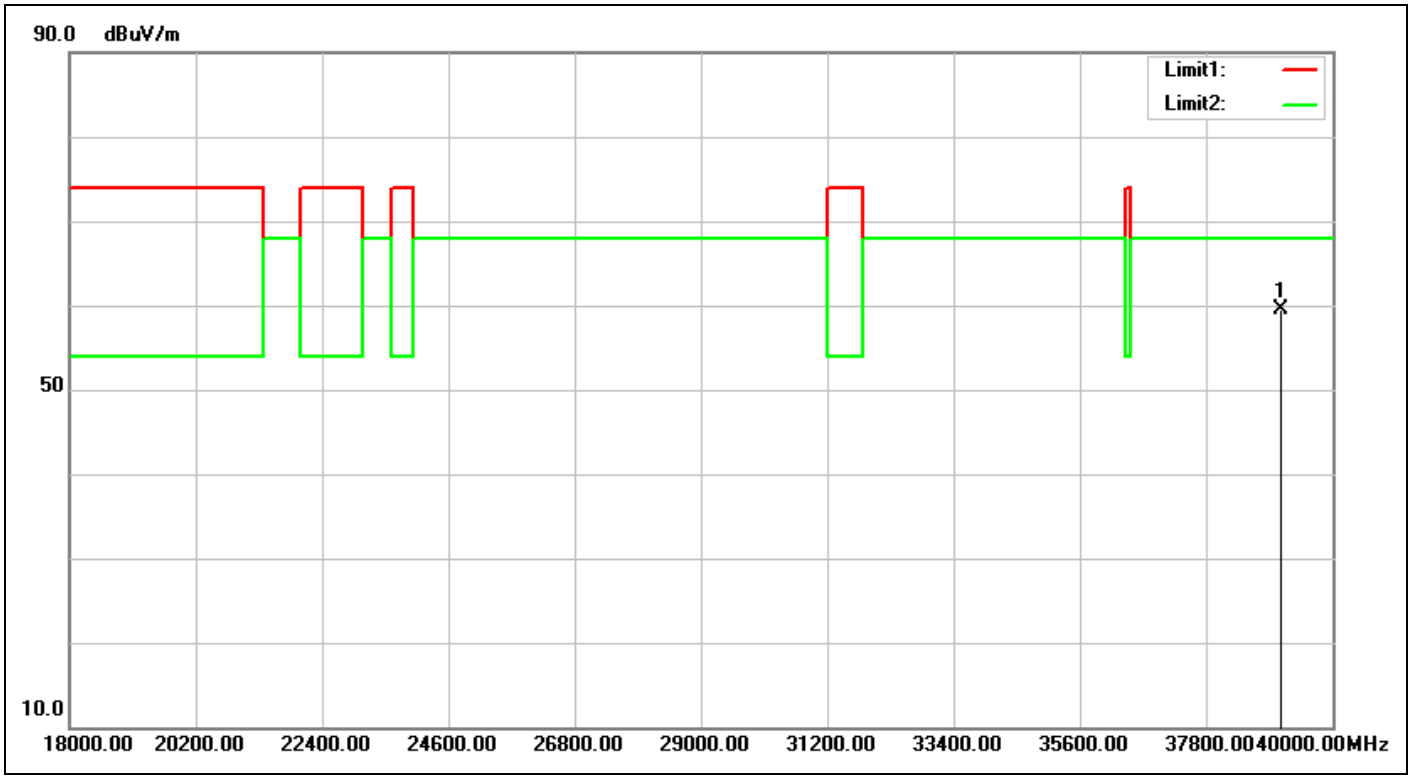

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:07:32**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39098.000	39.88	19.70	59.58	68.00	-8.42	peak			

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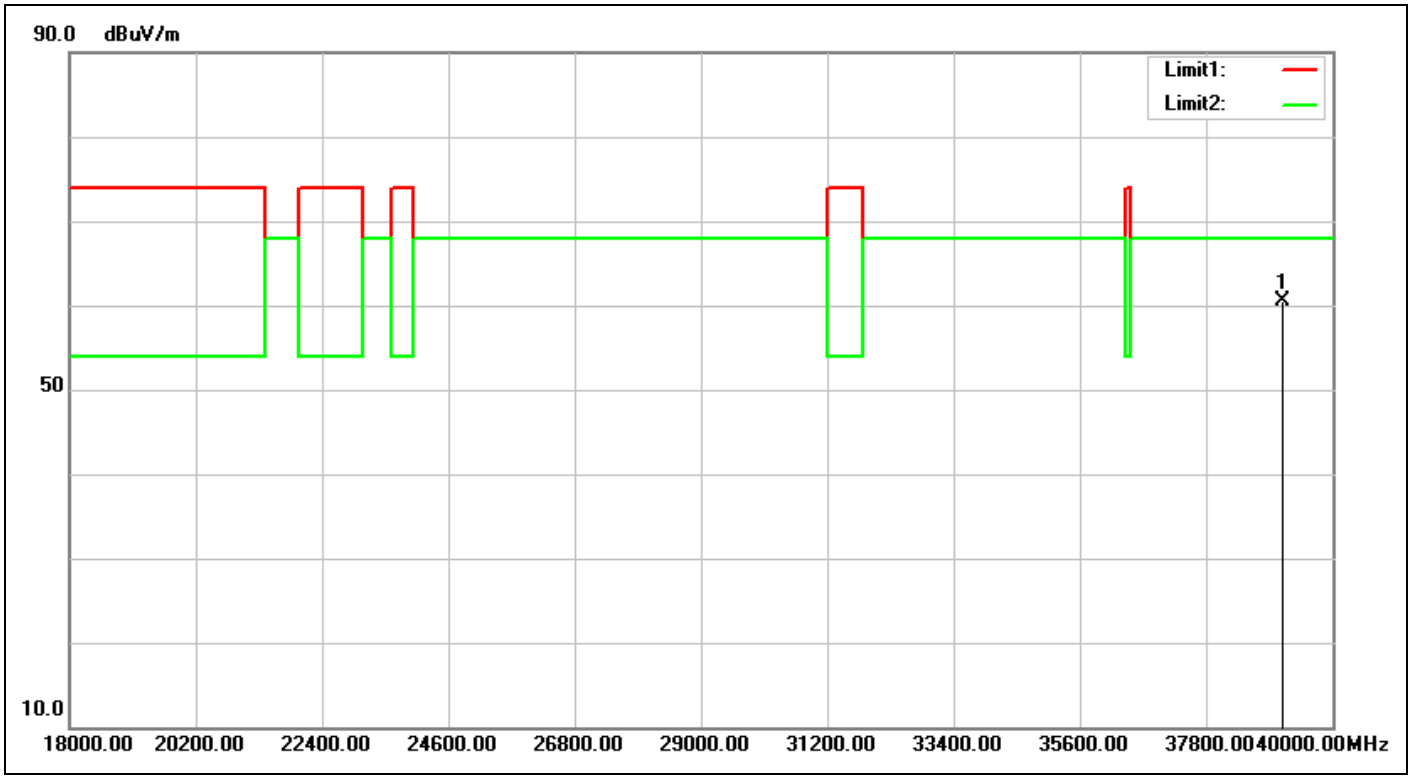

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:07:44**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5240-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39120.000	39.97	20.49	60.46	68.00	-7.54	peak			

Spurious Emissions, TX Mode, 18-40G , 5725-5850MHz

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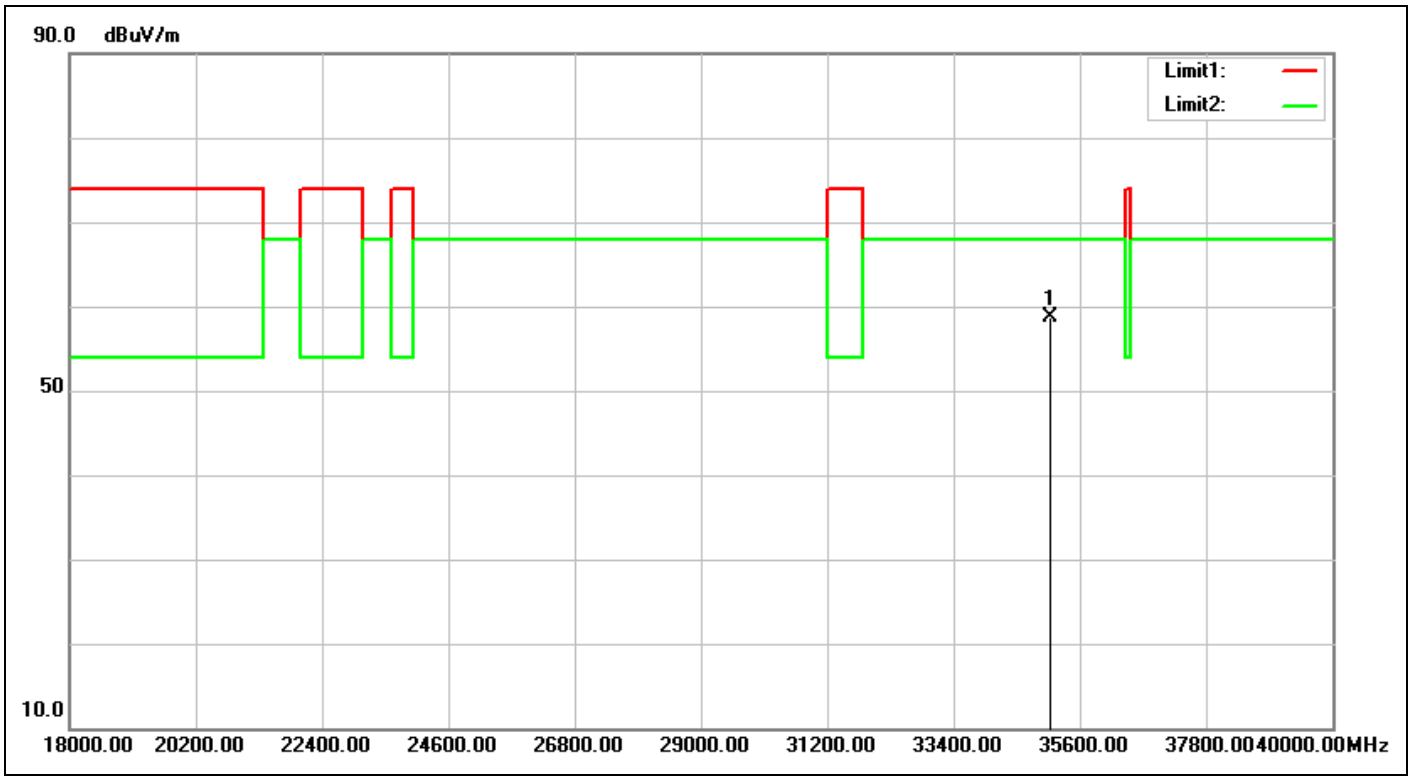

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:08:22**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35094.000	39.93	18.72	58.65	68.00	-9.35	peak			

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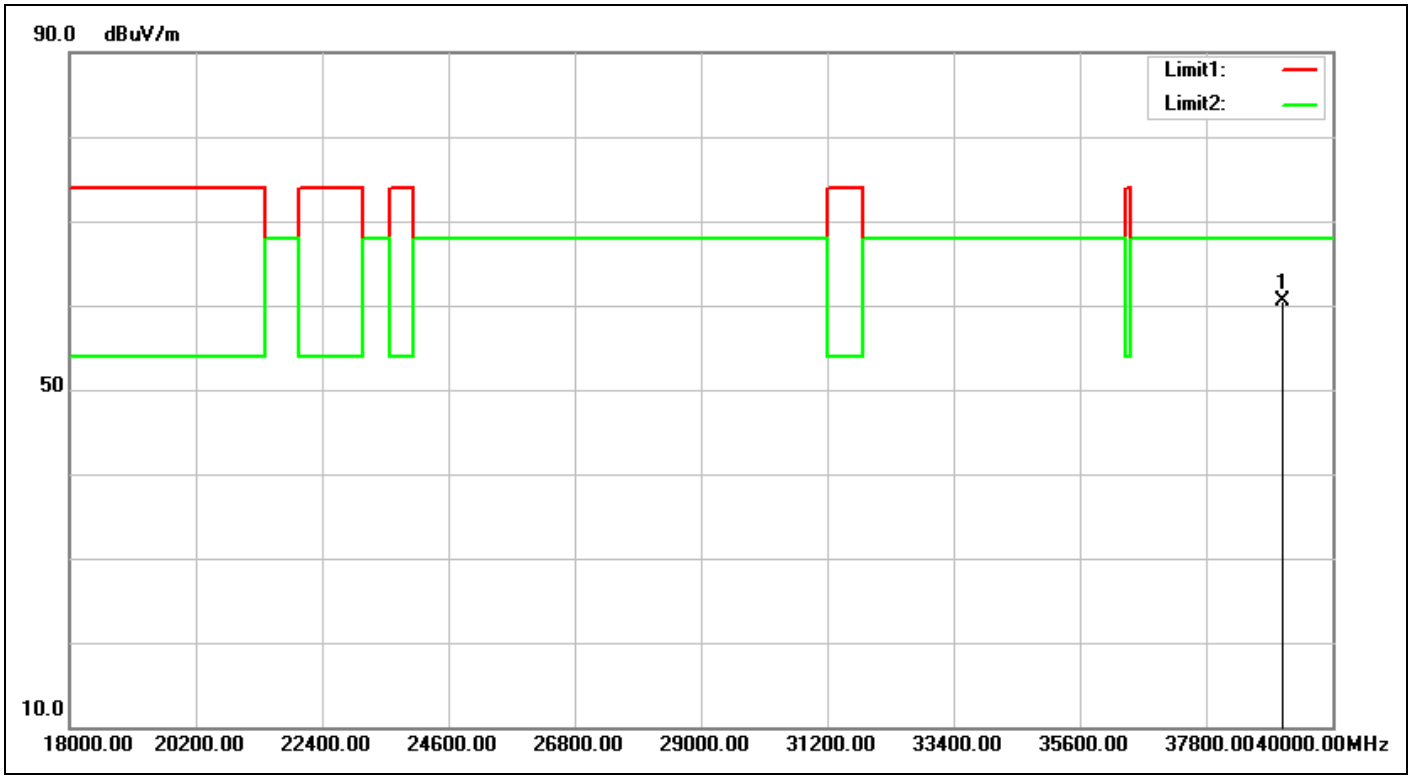

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:08:31**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39142.000	40.05	20.38	60.43	68.00	-7.57	peak			

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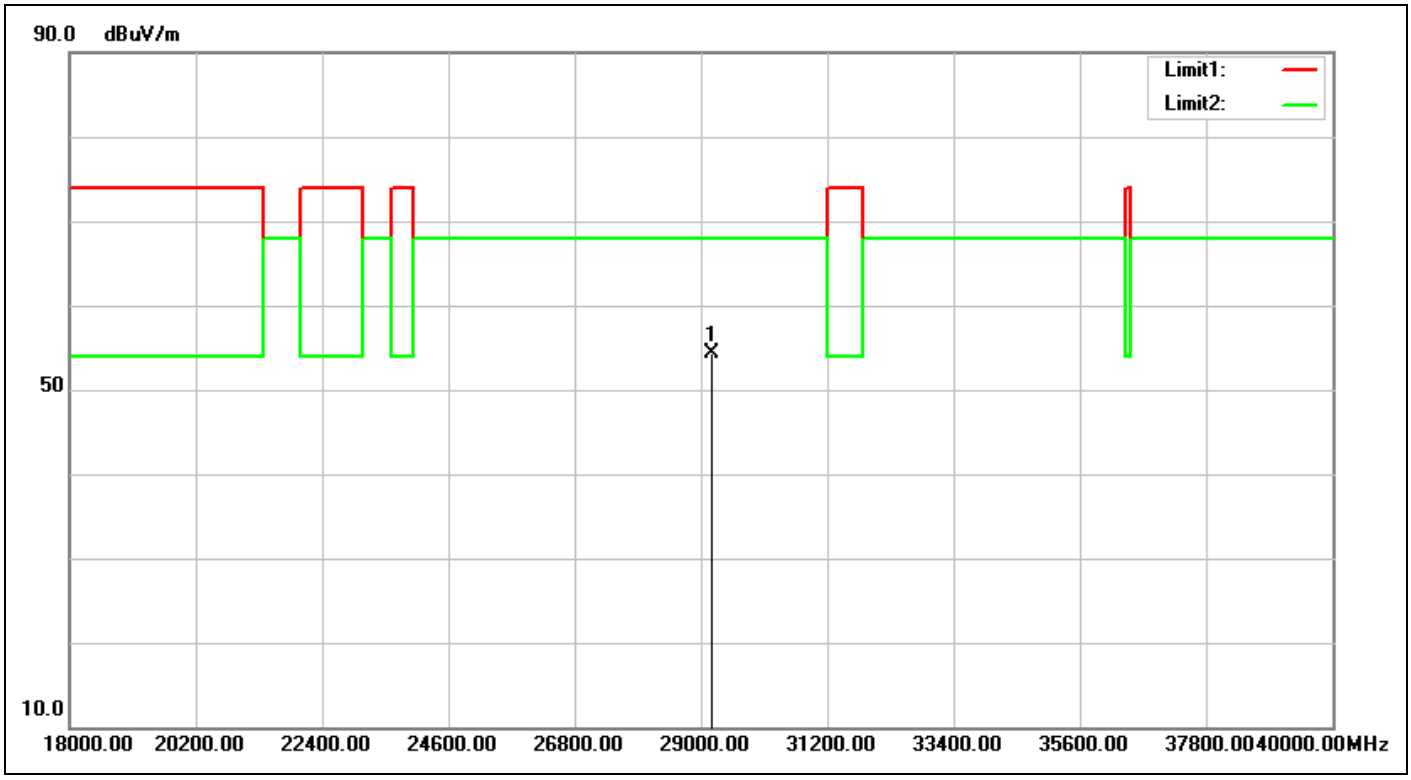

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:08:43**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	29176.000	36.99	17.38	54.37	68.00	-13.63	peak			

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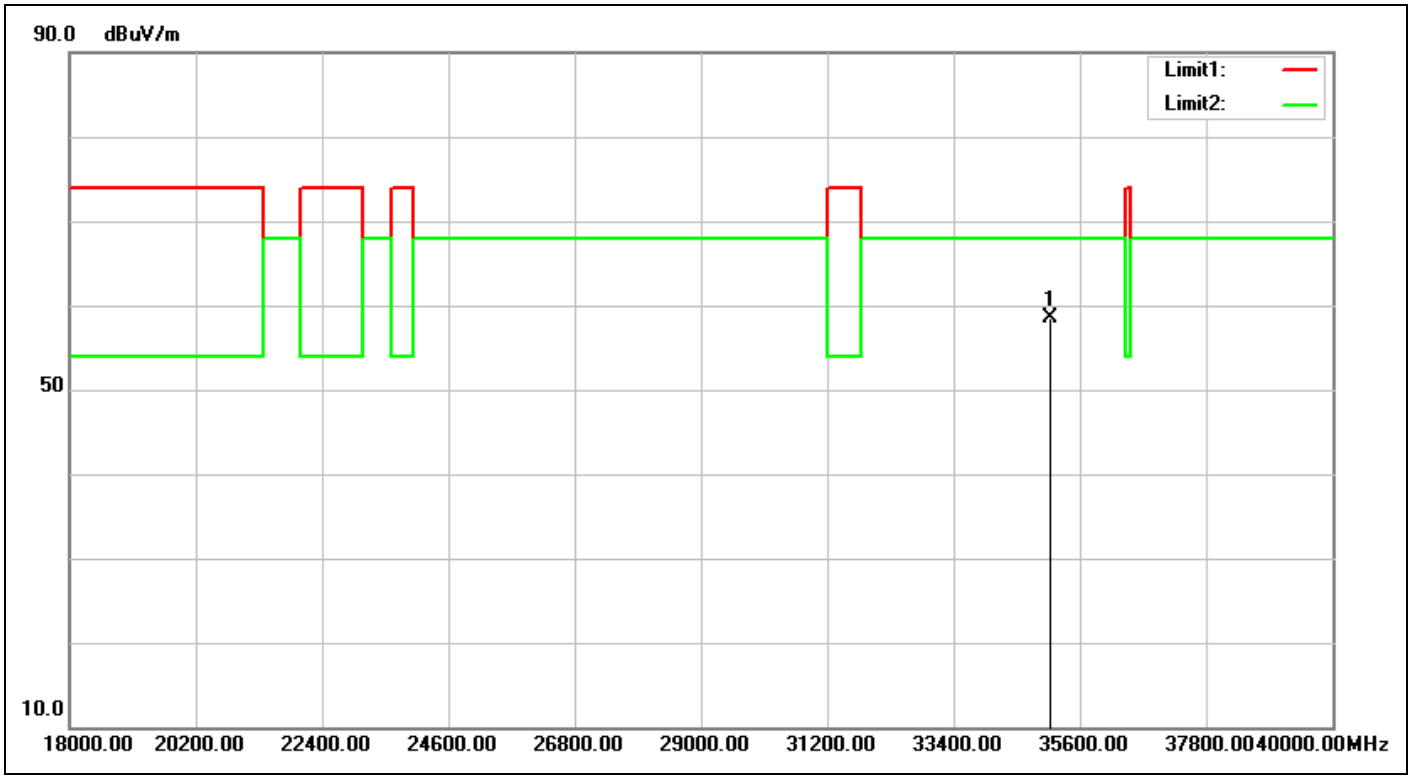

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:08:52**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35094.000	39.93	18.53	58.46	68.00	-9.54	peak			

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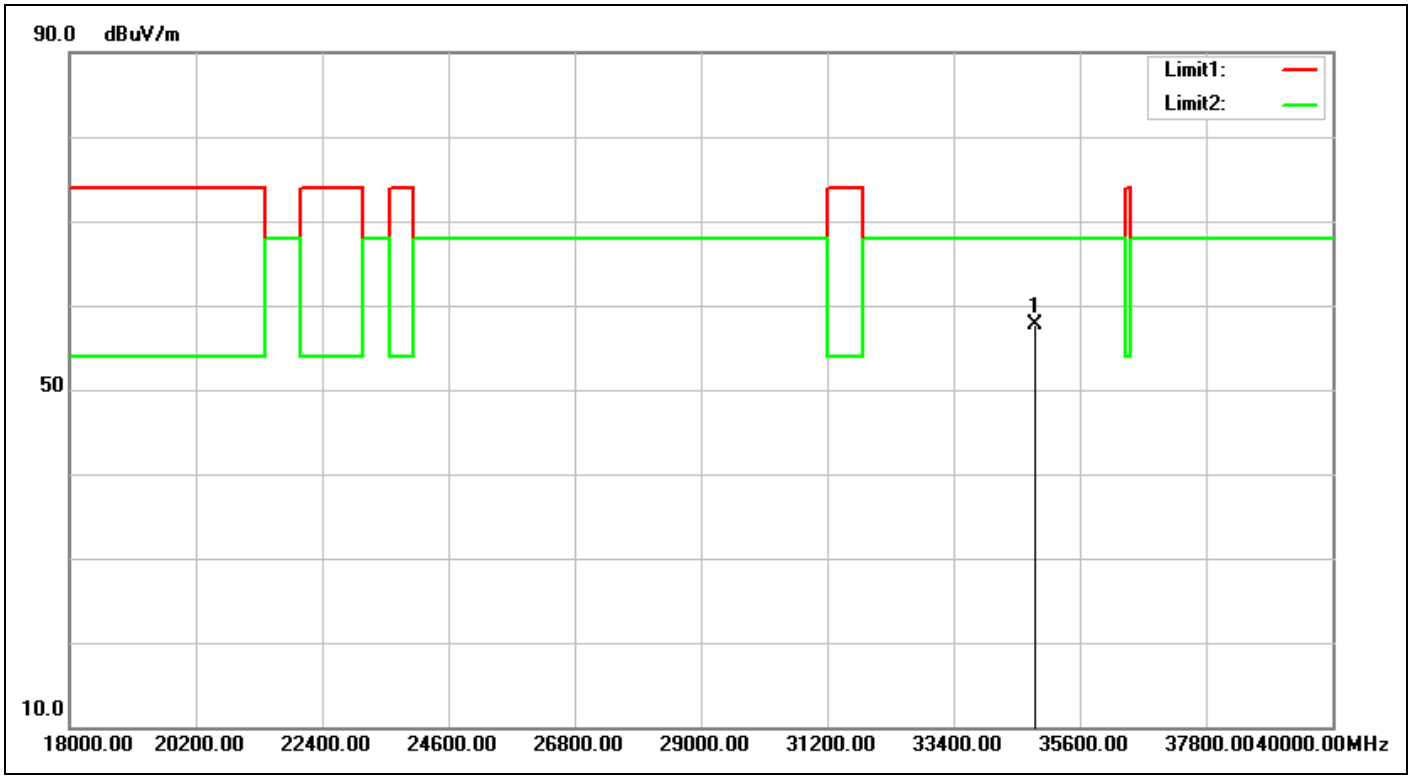

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:09:06**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	34808.000	39.85	17.78	57.63	68.00	-10.37	peak			

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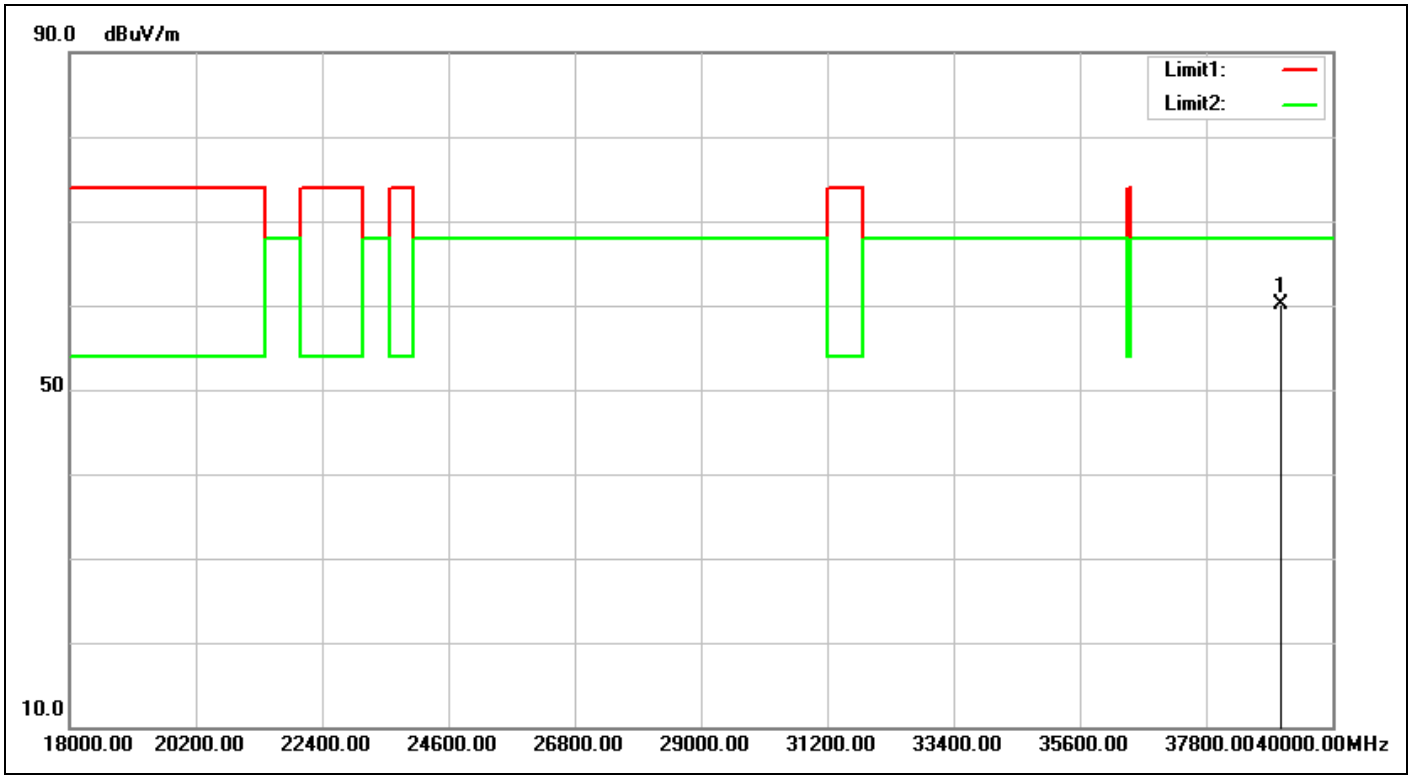

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:09:15**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39098.000	39.88	20.25	60.13	68.00	-7.87	peak			

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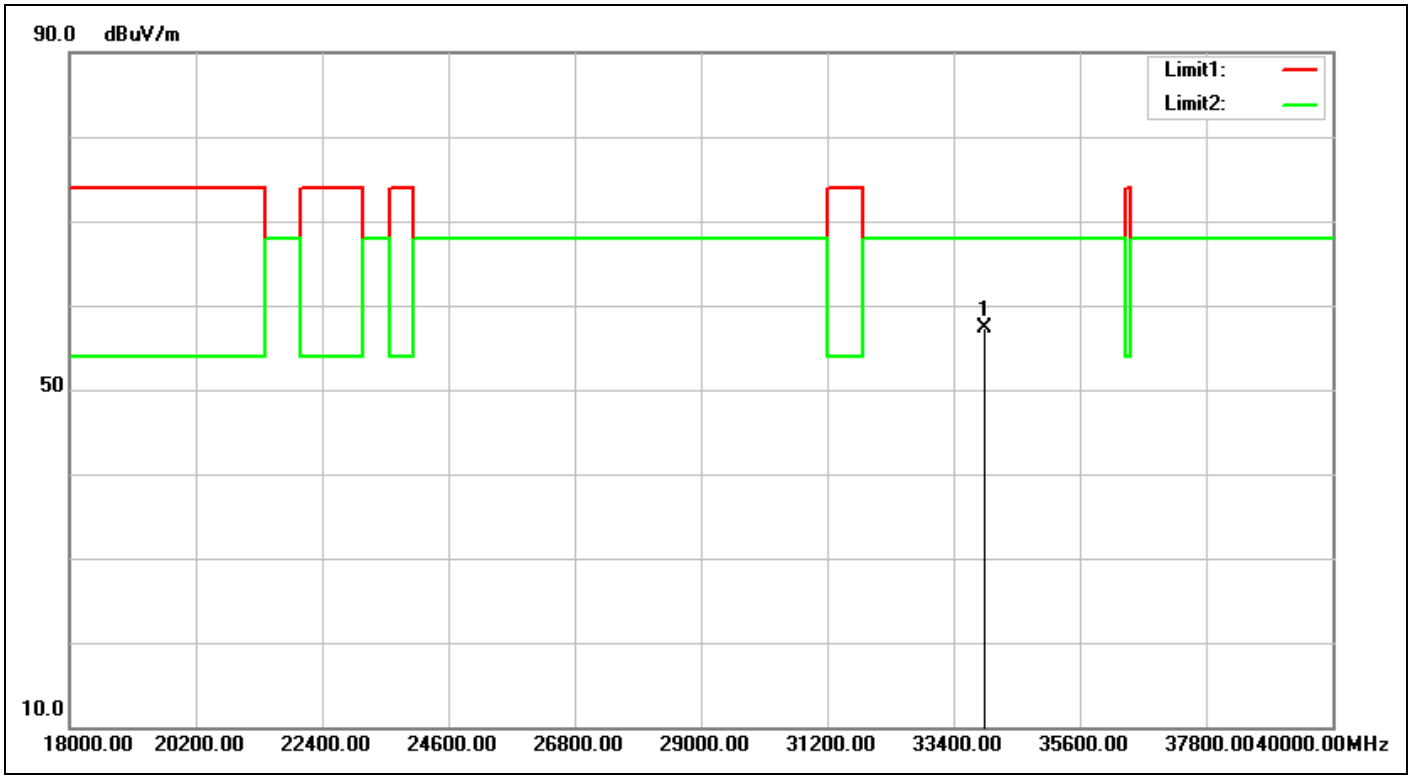

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:09:36**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	33928.000	39.58	17.81	57.39	68.00	-10.61	peak			

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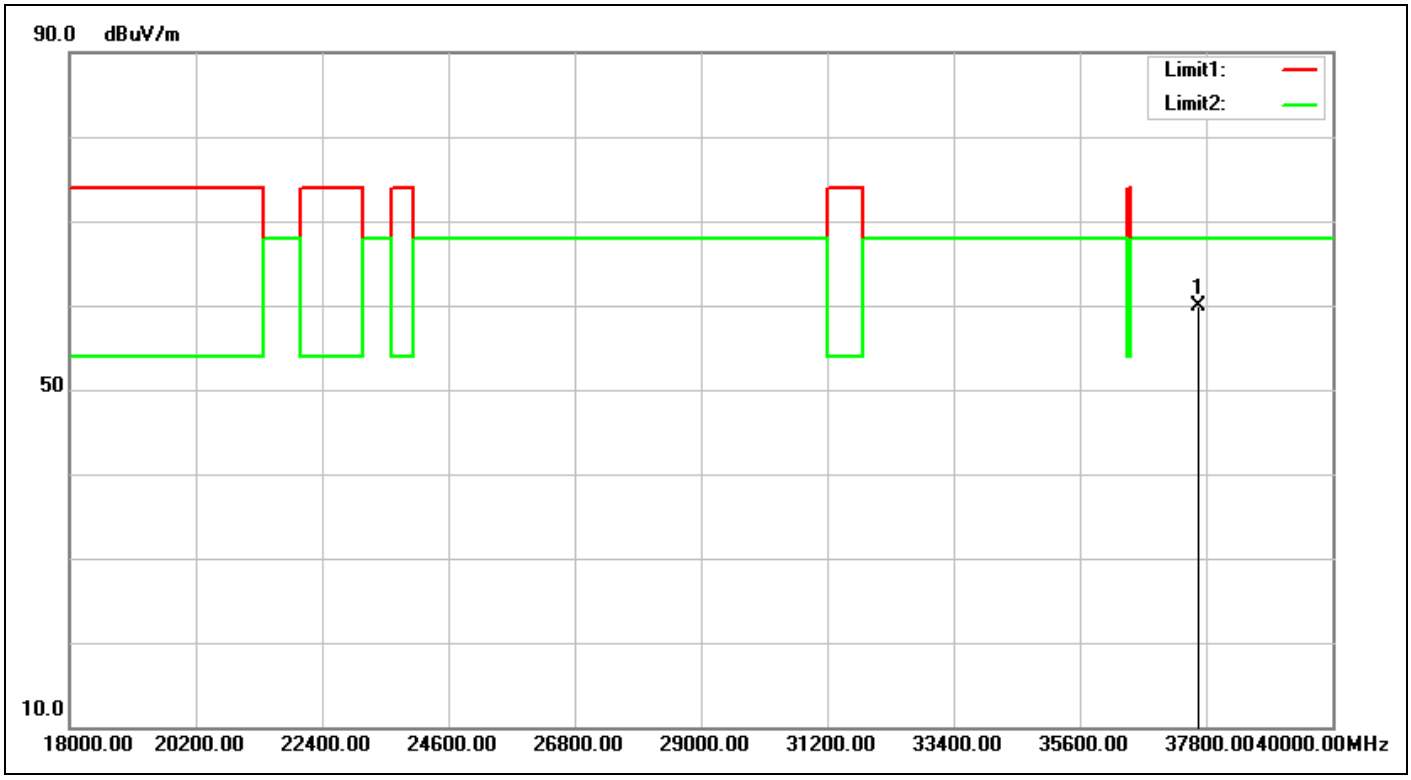

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:09:47**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	37668.000	39.70	20.23	59.93	68.00	-8.07	peak			

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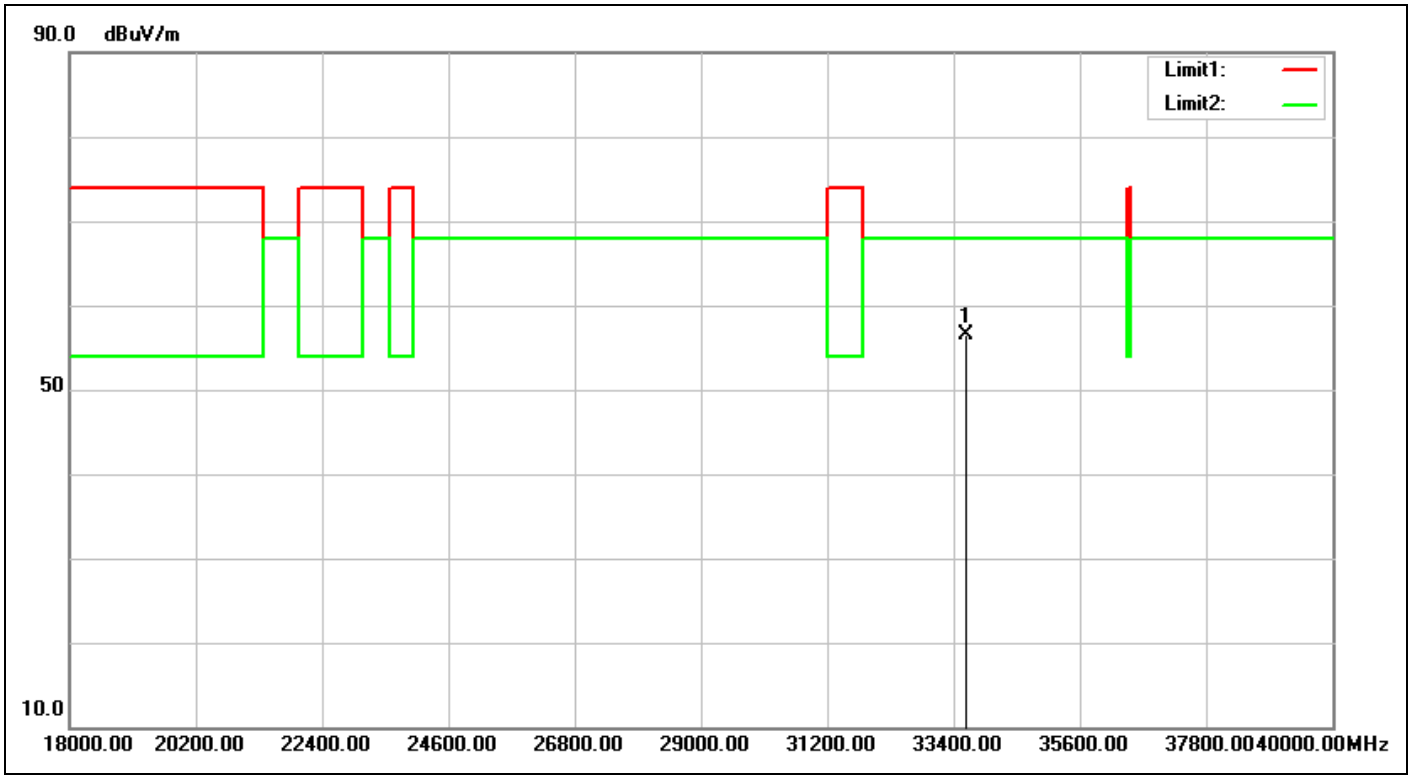

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:09:59**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	33620.000	39.31	17.22	56.53	68.00	-11.47	peak			

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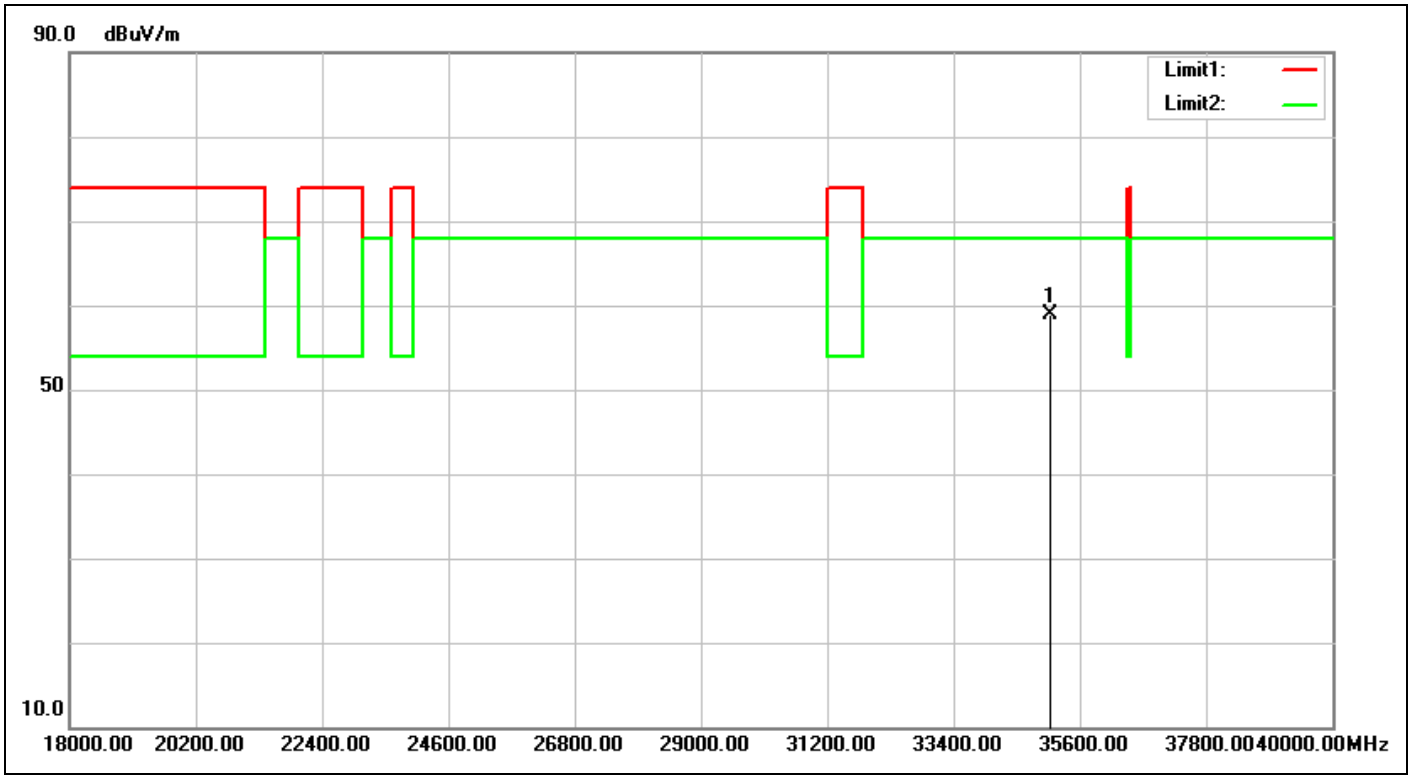

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:10:08**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35072.000	39.97	18.84	58.81	68.00	-9.19	peak			

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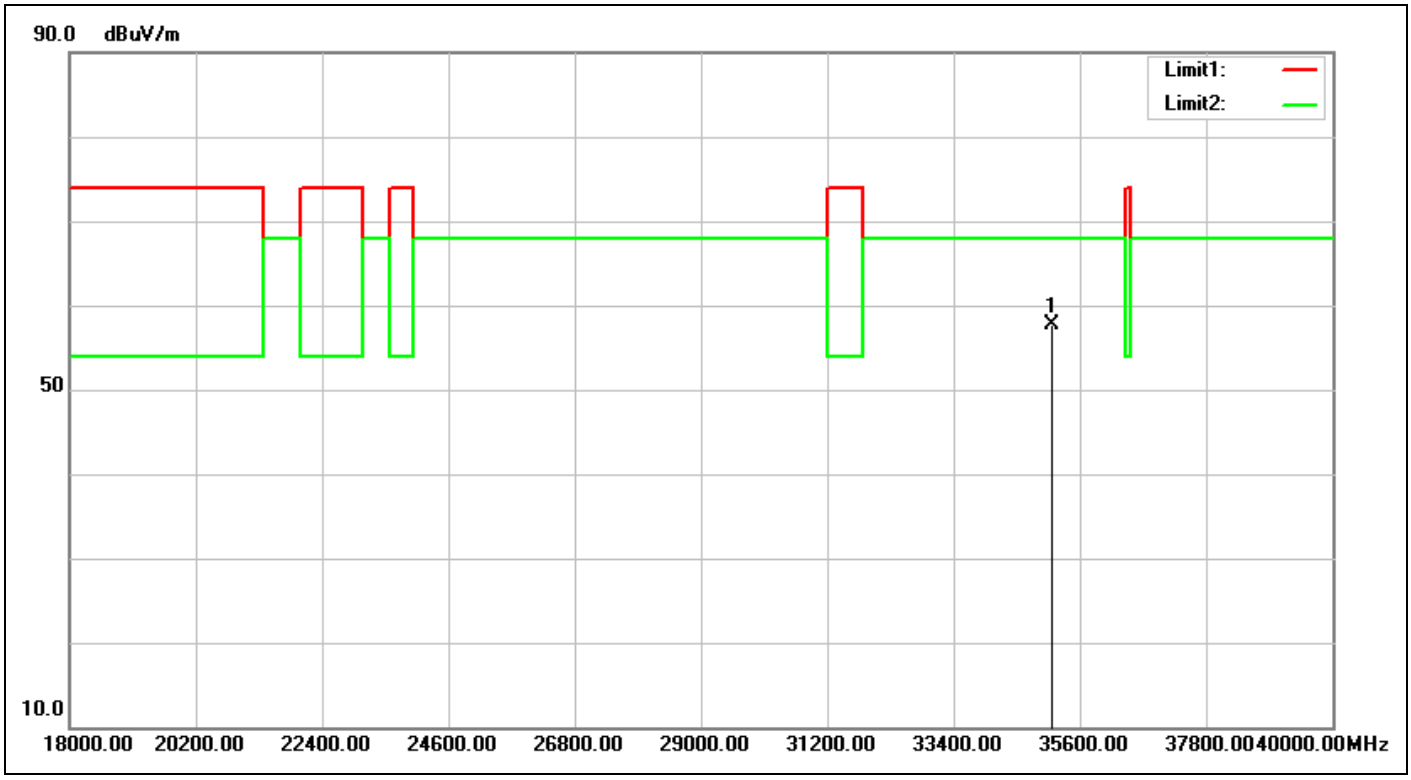

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:10:21**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35116.000	39.90	17.88	57.78	68.00	-10.22	peak			

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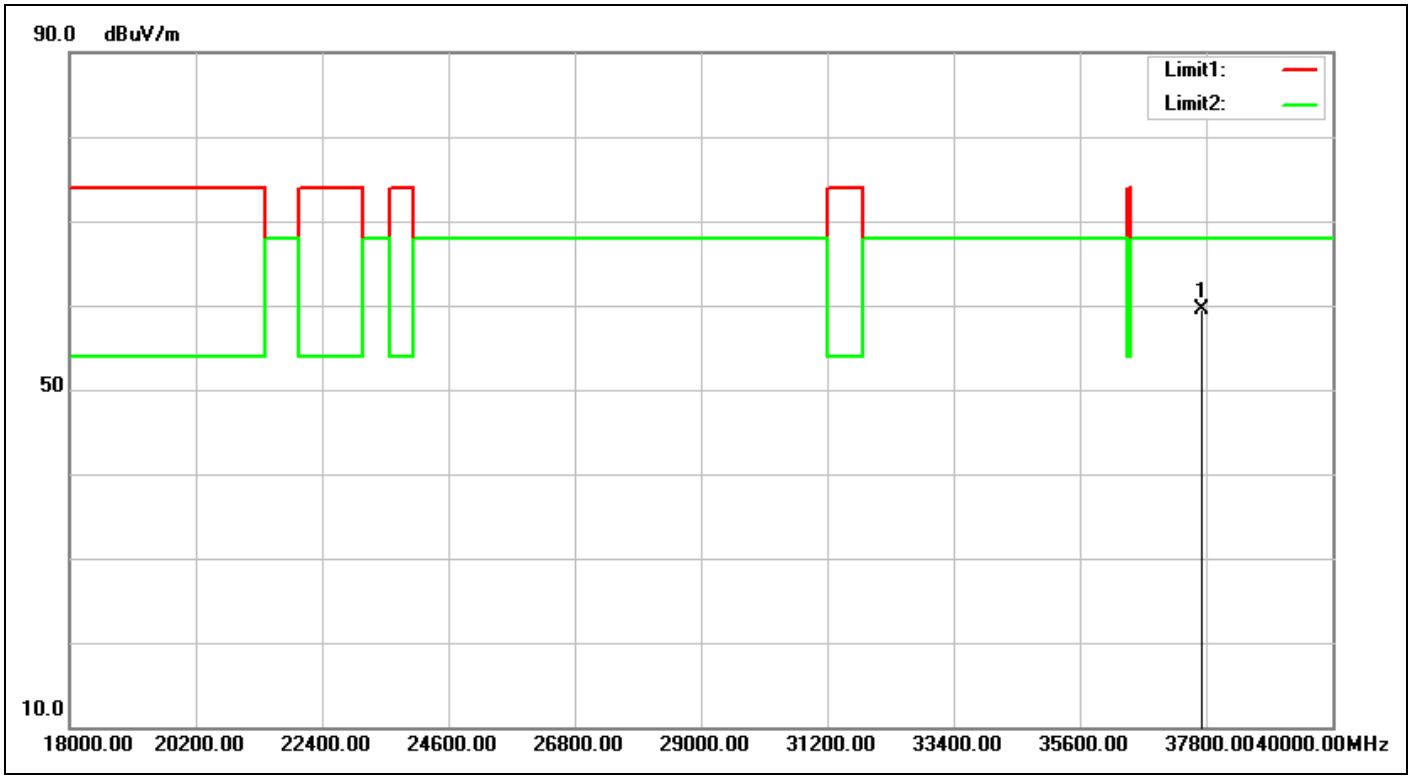

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:10:30**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**AC20-5825-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	37734.000	39.64	19.88	59.52	68.00	-8.48	peak			

Spurious Emissions, TX Mode, 30M-1G

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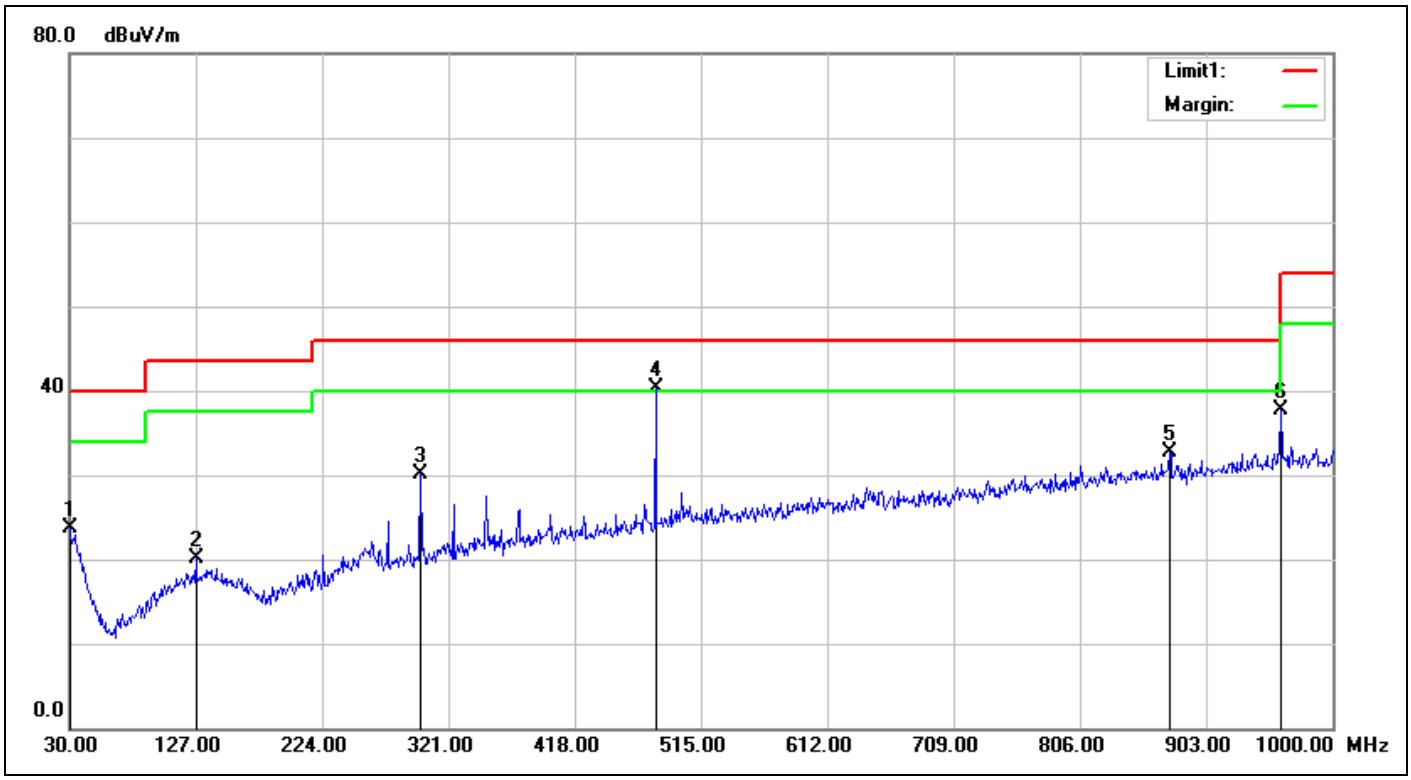

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:28:44**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.10	23.79	40.00	-16.21	QP	100	144	
2	127.0000	-8.19	28.33	20.14	43.50	-23.36	QP	100	219	
3	299.6600	-5.72	35.74	30.02	46.00	-15.98	QP	100	293	
4	480.0799	-2.48	42.88	40.40	46.00	-5.60	QP	100	86	
5	874.8700	3.48	29.14	32.62	46.00	-13.38	QP	100	227	
6	960.2300	5.11	32.55	37.66	54.00	-16.34	QP	100	245	

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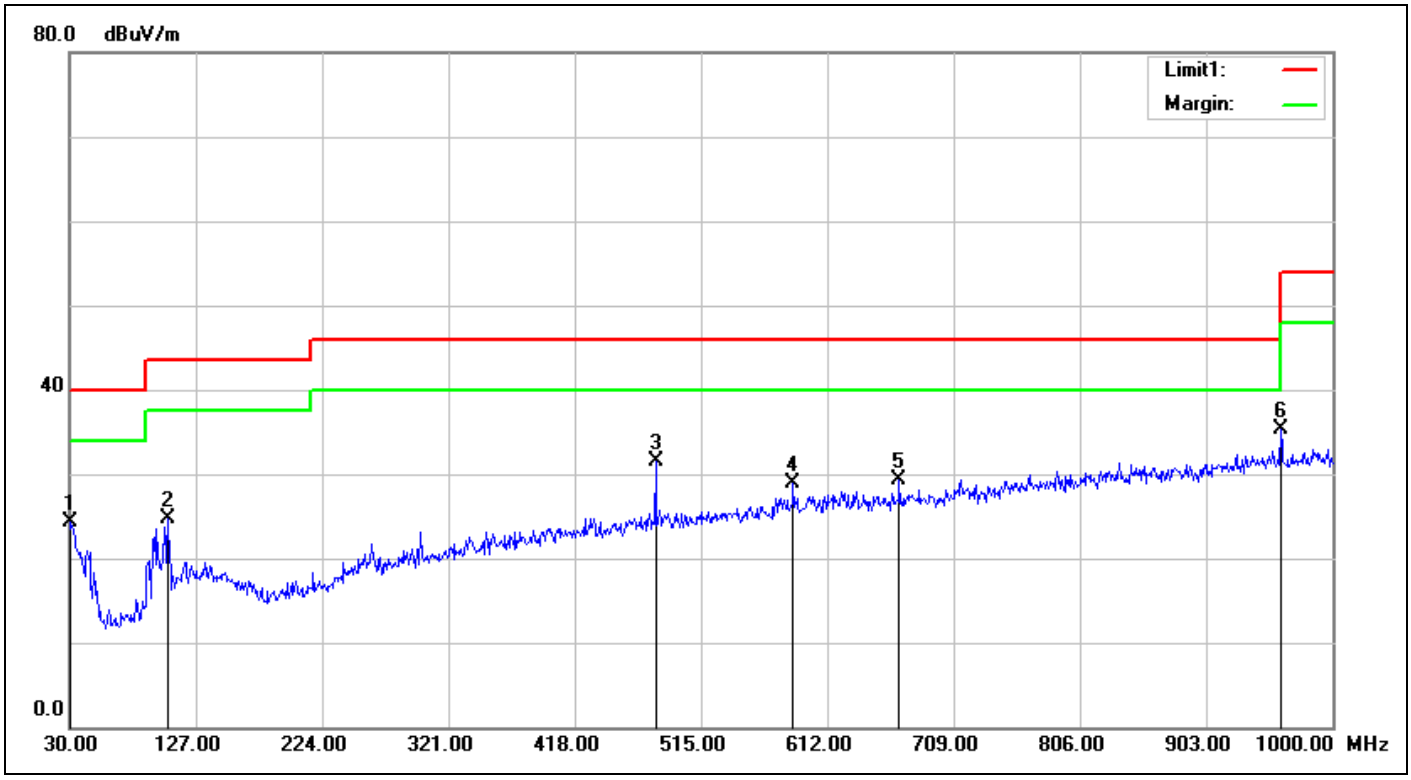

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:29:48**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.9700	-1.80	26.01	24.21	40.00	-15.79	QP	100	157	
2	105.6600	-9.87	34.61	24.74	43.50	-18.76	QP	100	195	
3	480.0800	-2.48	33.96	31.48	46.00	-14.52	QP	100	30	
4	585.8100	-1.03	29.84	28.81	46.00	-17.19	QP	100	27	
5	667.2900	-0.08	29.29	29.21	46.00	-16.79	QP	100	6	
6	960.2300	5.11	30.22	35.33	54.00	-18.67	QP	100	165	

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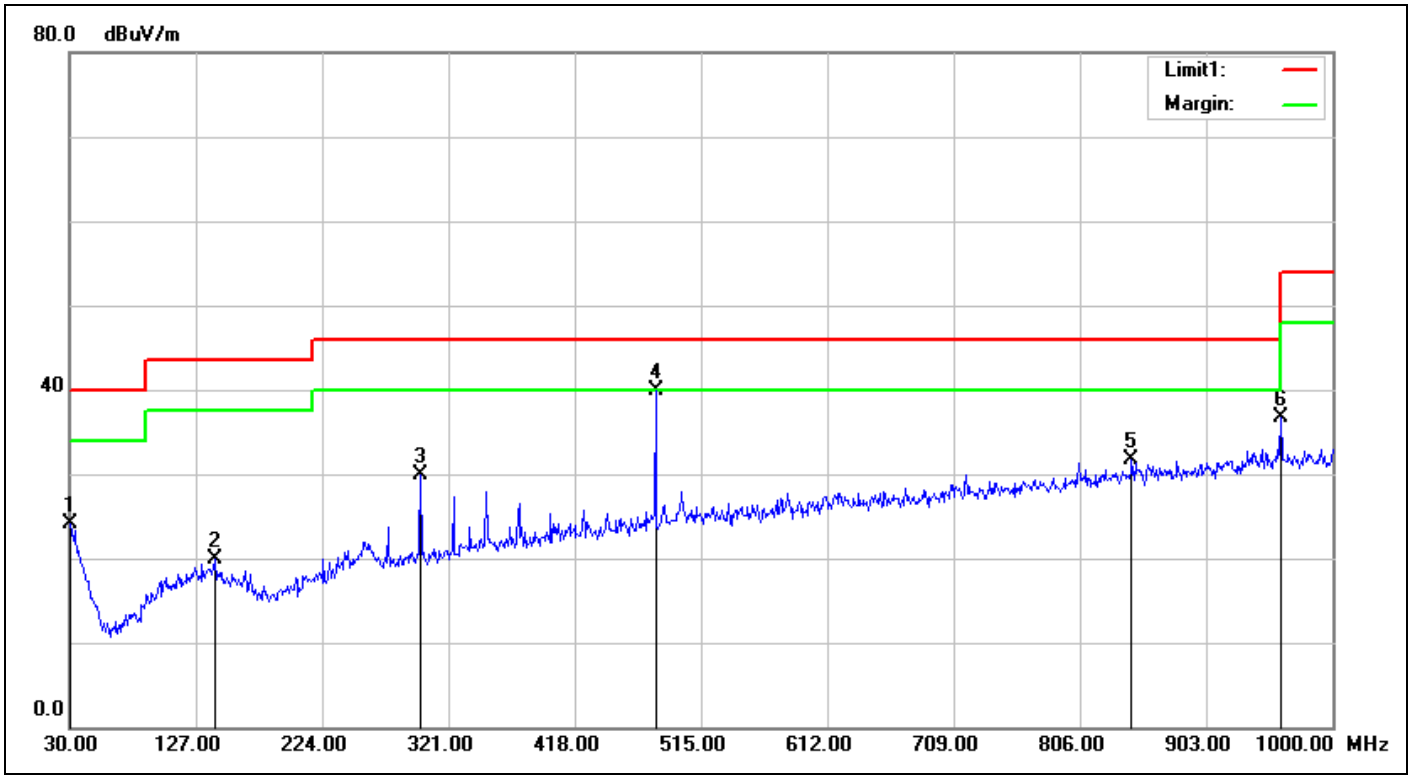

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:32:02**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.41	24.10	40.00	-15.90	QP	100	279	
2	141.5500	-8.13	28.06	19.93	43.50	-23.57	QP	100	53	
3	299.6600	-5.72	35.62	29.90	46.00	-16.10	QP	100	125	
4	480.0799	-2.48	42.47	39.99	46.00	-6.01	QP	100	67	
5	845.7699	3.15	28.62	31.77	46.00	-14.23	QP	100	171	
6	960.2300	5.11	31.67	36.78	54.00	-17.22	QP	100	221	

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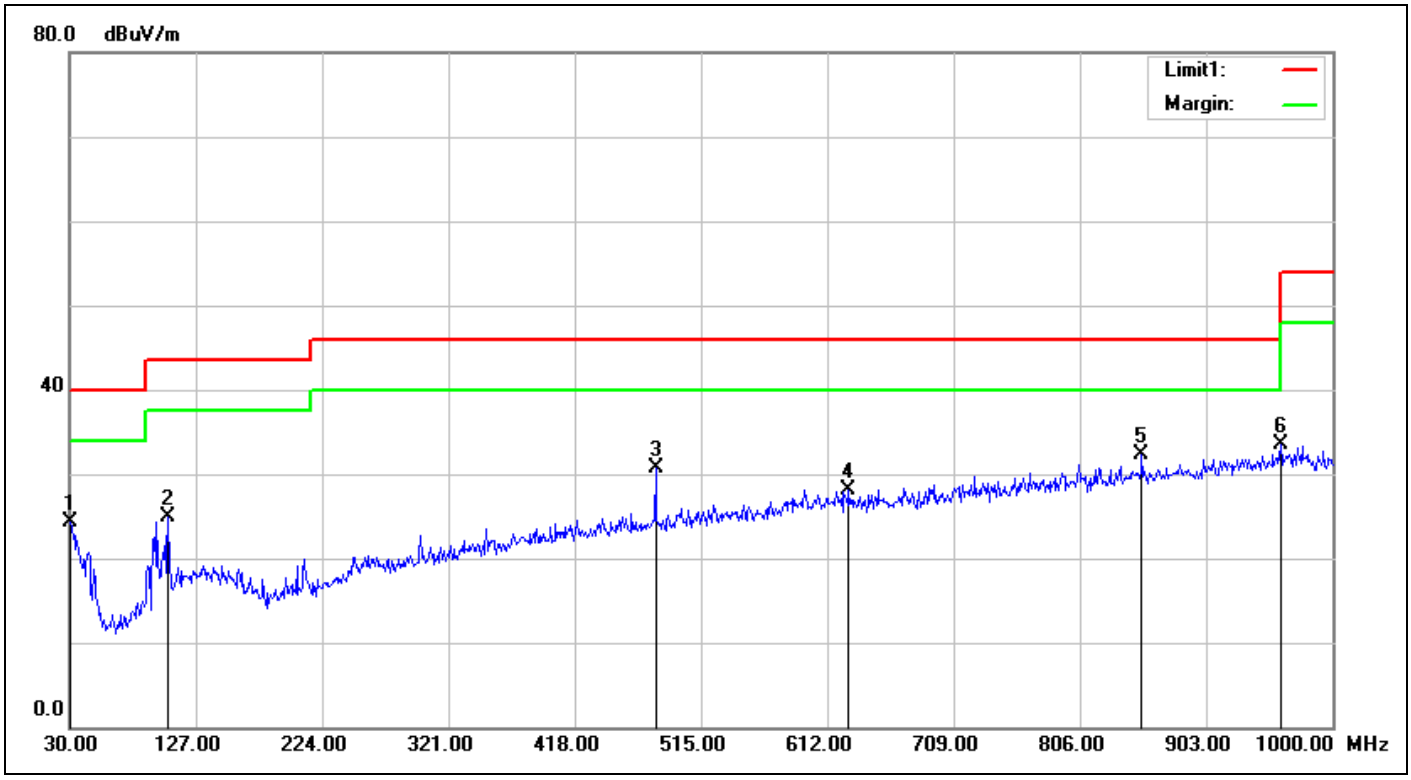

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:33:05**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.66	24.35	40.00	-15.65	QP	100	110	
2	105.6600	-9.87	34.85	24.98	43.50	-18.52	QP	100	197	
3	480.0800	-2.48	33.19	30.71	46.00	-15.29	QP	100	59	
4	628.4900	-0.49	28.53	28.04	46.00	-17.96	QP	100	233	
5	853.5300	3.27	29.05	32.32	46.00	-13.68	QP	100	67	
6	960.2300	5.11	28.31	33.42	54.00	-20.58	QP	100	179	

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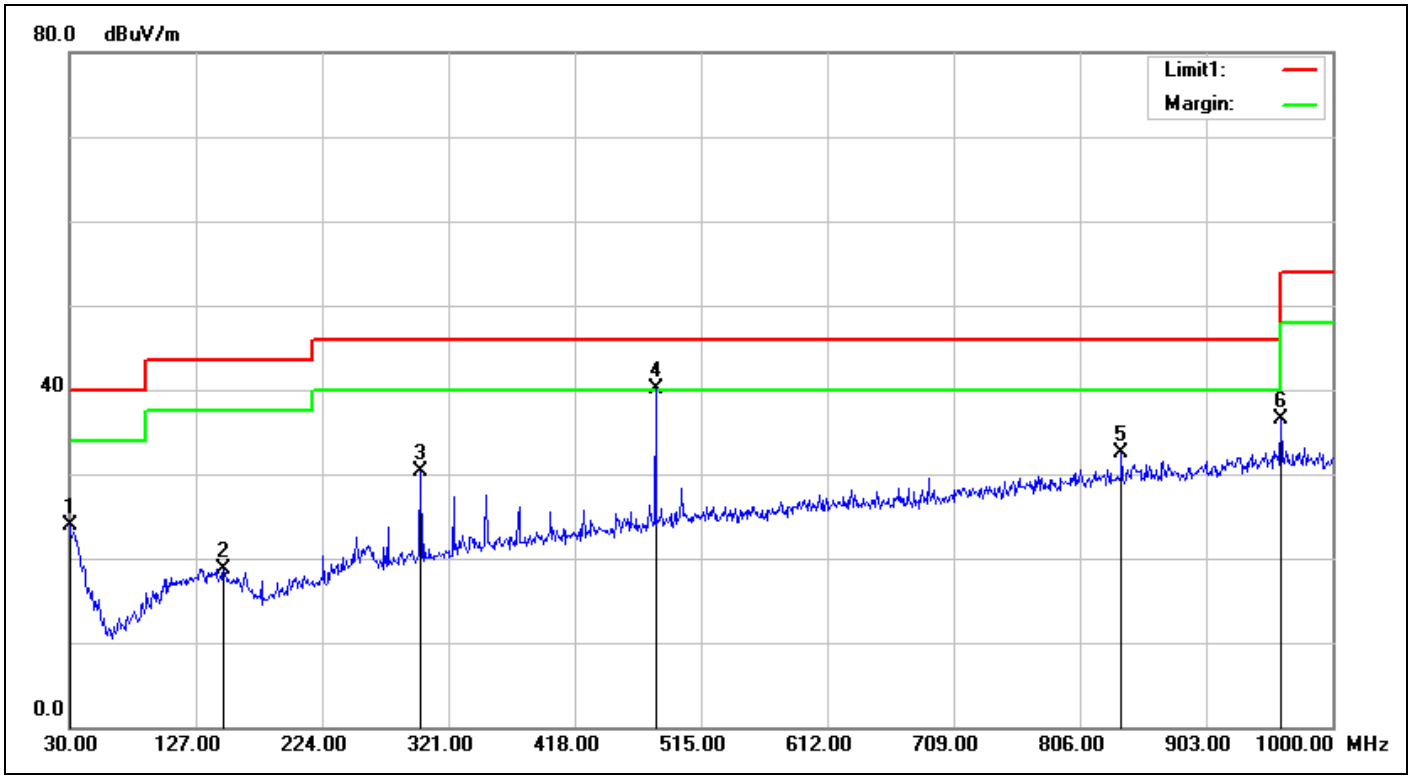

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:38:21**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.13	23.82	40.00	-16.18	QP	100	0	
2	148.3400	-8.36	27.16	18.80	43.50	-24.70	QP	100	194	
3	299.6600	-5.72	36.12	30.40	46.00	-15.60	QP	100	96	
4	480.0799	-2.48	42.49	40.01	46.00	-5.99	QP	100	85	
5	838.0099	2.99	29.50	32.49	46.00	-13.51	QP	100	80	
6	960.2300	5.11	31.41	36.52	54.00	-17.48	QP	100	215	

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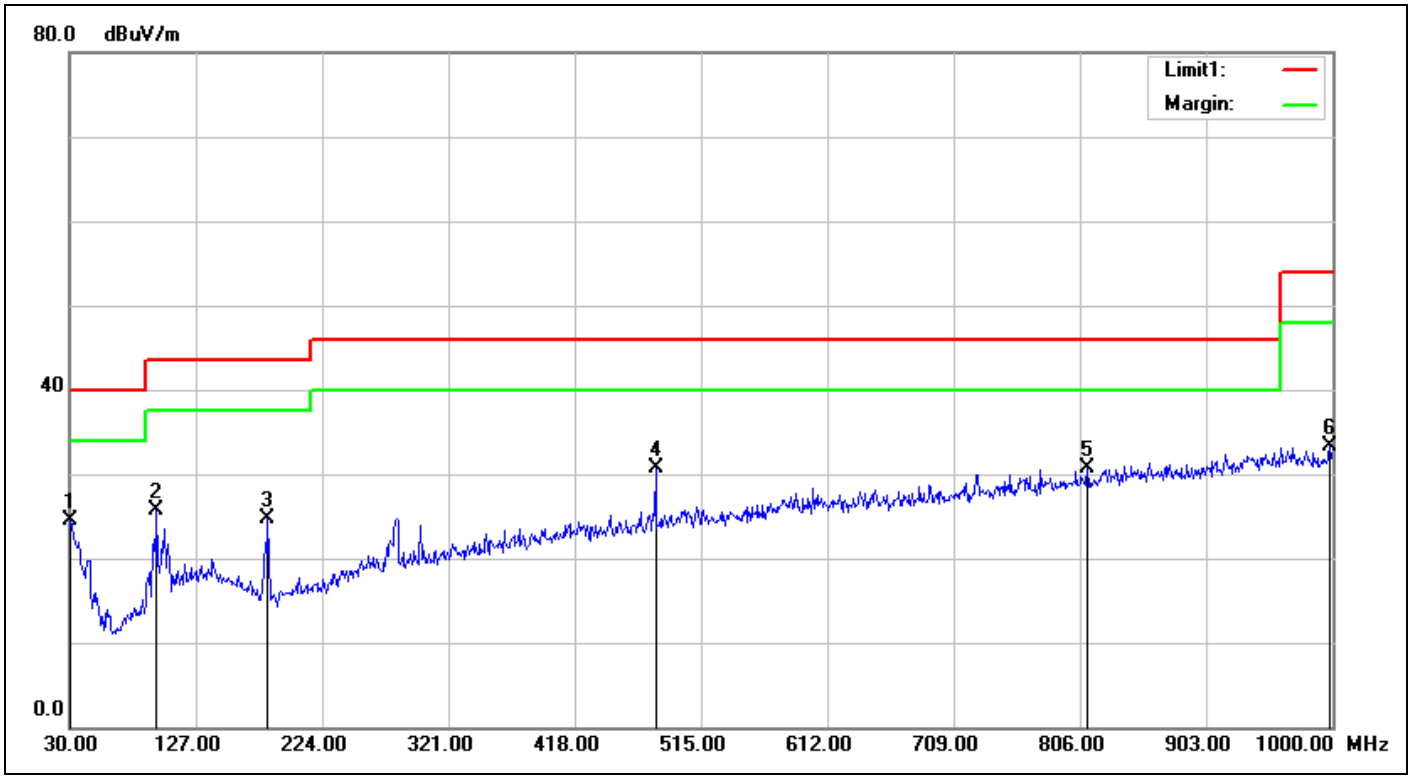

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:39:25**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5745-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.9700	-1.80	26.38	24.58	40.00	-15.42	QP	100	320	
2	96.9300	-11.09	36.74	25.65	43.50	-17.85	QP	100	229	
3	182.2899	-10.70	35.36	24.66	43.50	-18.84	QP	100	312	
4	480.0800	-2.48	33.17	30.69	46.00	-15.31	QP	100	64	
5	811.8200	2.48	28.16	30.64	46.00	-15.36	QP	100	354	
6	998.0600	5.03	28.27	33.30	54.00	-20.70	QP	100	200	

Spurious Emissions, TX Mode, 150K-30M

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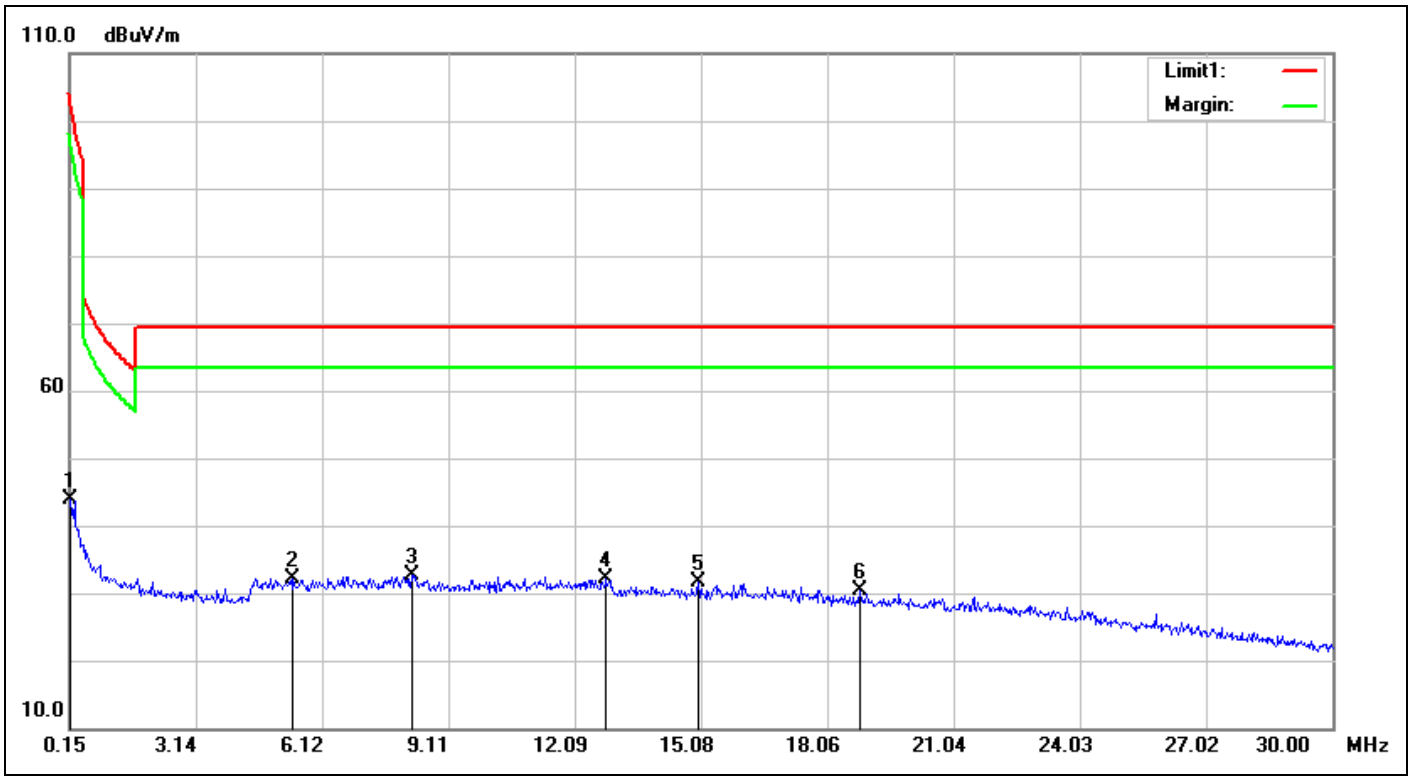

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:08:54**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.1499	19.08	24.79	43.87	104.02	-60.15	QP	100	109	
2	5.4334	19.80	12.35	32.15	69.50	-37.35	QP	100	152	
3	8.2393	20.06	12.69	32.75	69.50	-36.75	QP	100	291	
4	12.8362	20.72	11.38	32.10	69.50	-37.40	QP	100	256	
5	15.0152	21.10	10.44	31.54	69.50	-37.96	QP	100	267	
6	18.8360	21.78	8.64	30.42	69.50	-39.08	QP	100	264	

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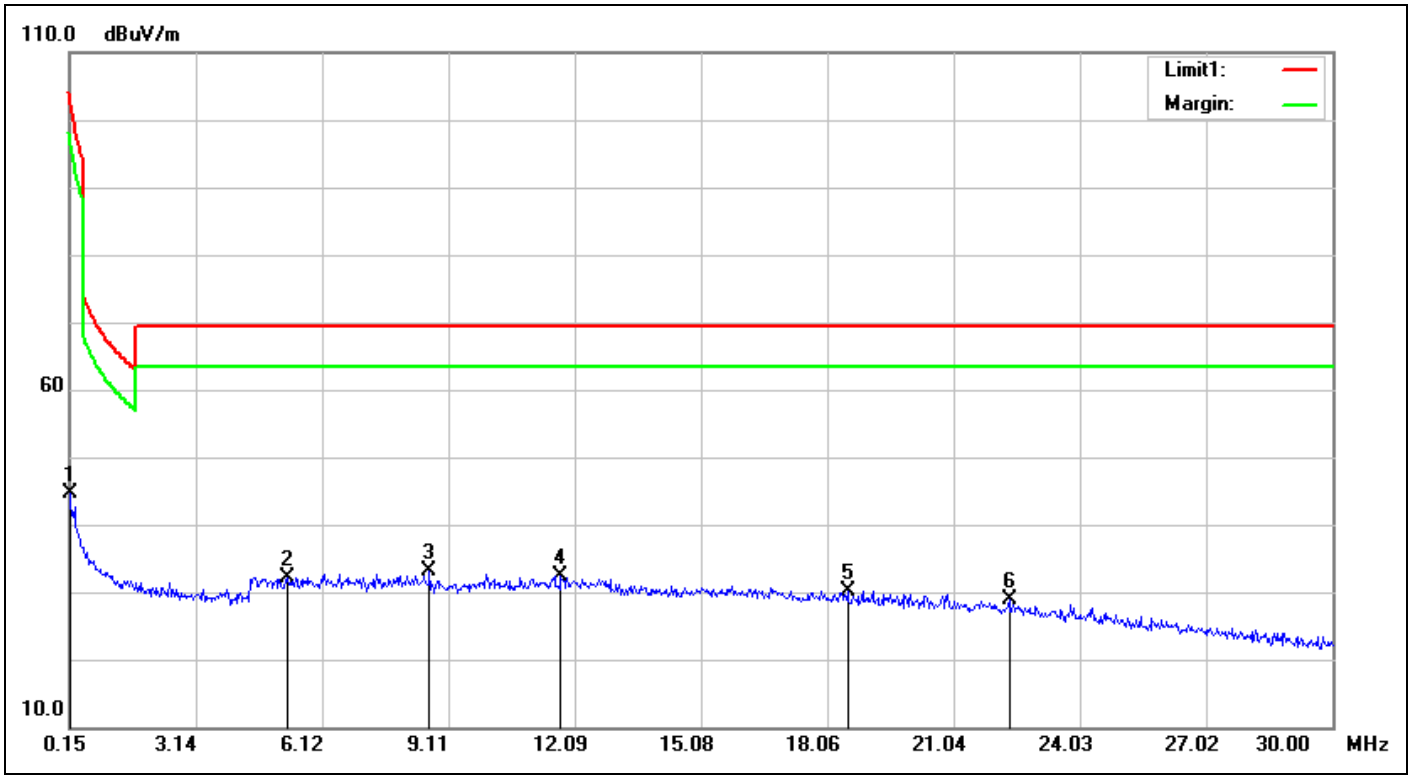

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:11:34**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.1500	19.08	25.50	44.58	104.02	-59.44	QP	100	158	
2	5.3140	19.79	12.43	32.22	69.50	-37.28	QP	100	38	
3	8.6572	20.09	12.97	33.06	69.50	-36.44	QP	100	115	
4	11.7616	20.53	11.86	32.39	69.50	-37.11	QP	100	206	
5	18.5376	21.73	8.48	30.21	69.50	-39.29	QP	100	309	
6	22.3583	22.14	6.78	28.92	69.50	-40.58	QP	100	48	

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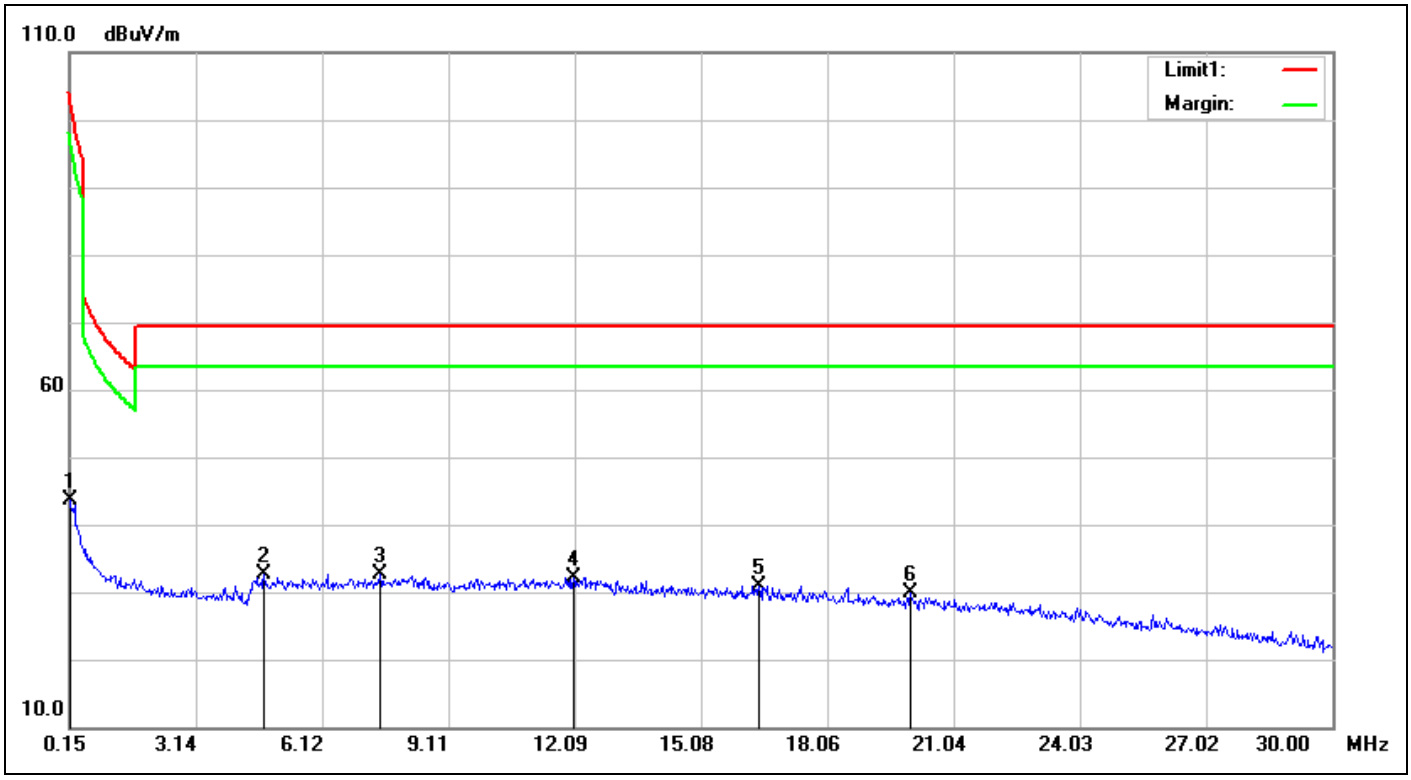

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:14:42**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.1499	19.08	24.43	43.51	104.02	-60.51	QP	100	227	
2	4.7469	19.60	13.02	32.62	69.50	-36.88	QP	100	360	
3	7.4931	19.99	12.52	32.51	69.50	-36.99	QP	100	125	
4	12.0601	20.58	11.65	32.23	69.50	-37.27	QP	100	307	
5	16.4481	21.36	9.60	30.96	69.50	-38.54	QP	100	168	
6	20.0301	21.99	7.94	29.93	69.50	-39.57	QP	100	360	

Spurious Emissions, TX Mode, 9K-150K

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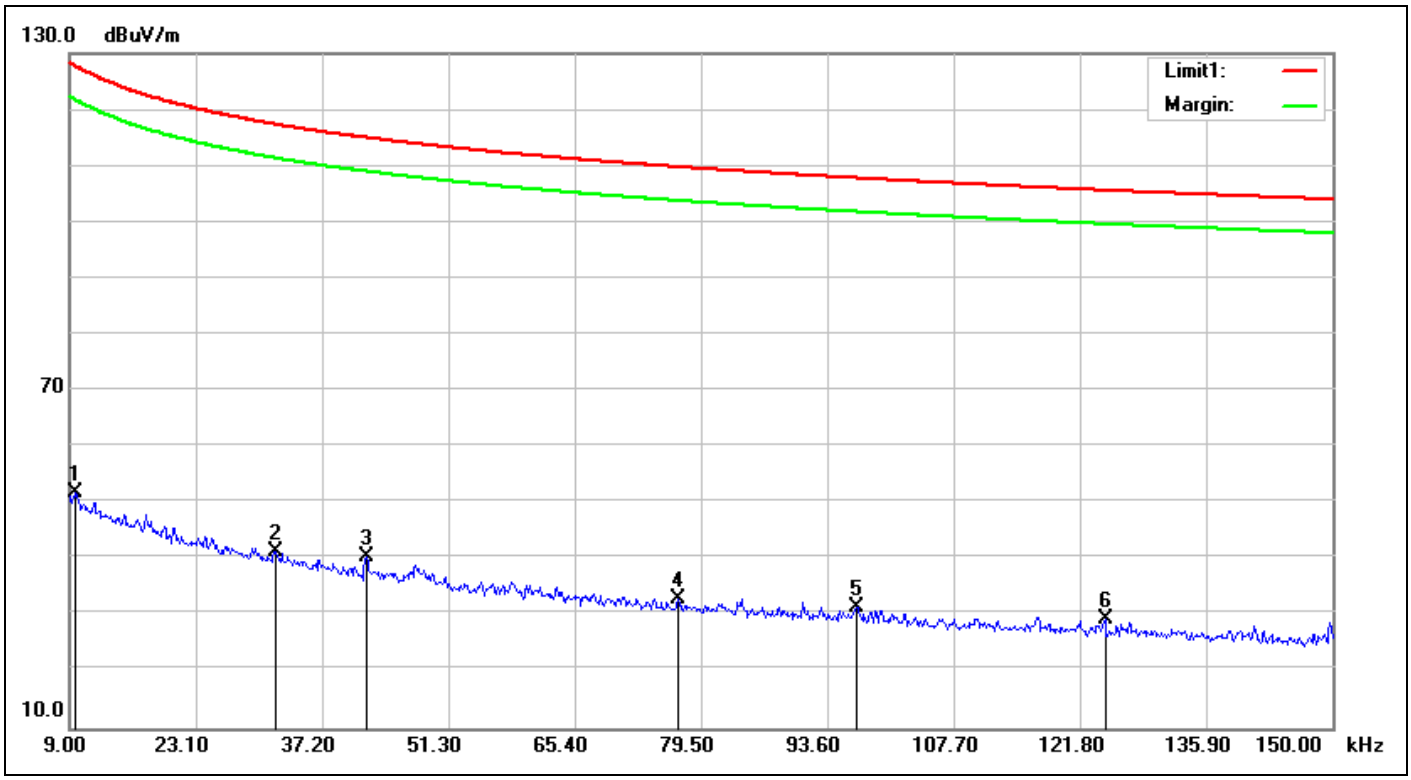

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:02:41**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0097	19.83	32.06	51.89	127.66	-75.77	QP	100	218	
2	0.0319	20.06	21.33	41.39	117.38	-75.99	QP	100	1	
3	0.0421	19.70	20.67	40.37	114.99	-74.62	QP	100	202	
4	0.0769	19.27	13.67	32.94	109.79	-76.85	QP	100	205	
5	0.0967	19.15	12.43	31.58	107.81	-76.23	QP	100	58	
6	0.1246	19.11	10.12	29.23	105.62	-76.39	QP	100	184	

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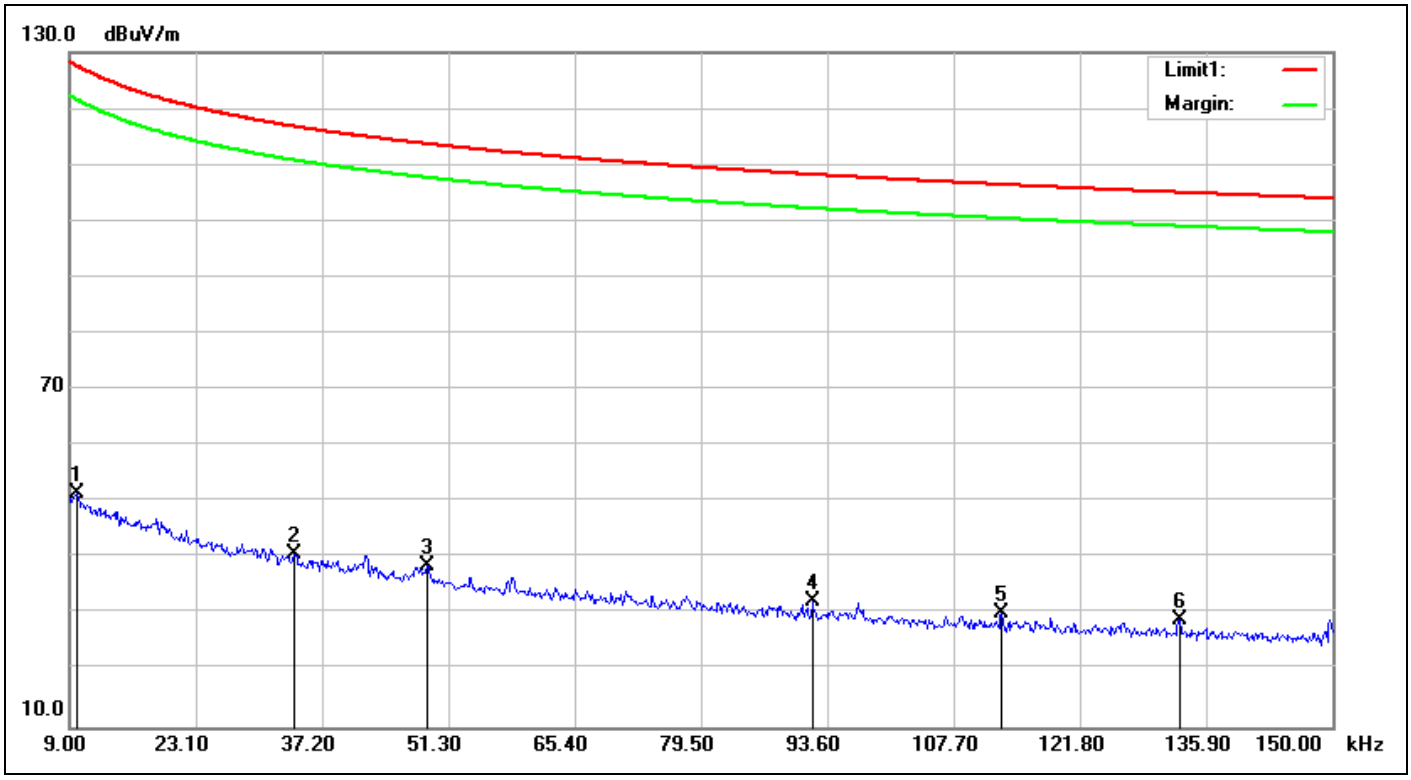

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:05:26**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0098	19.86	31.82	51.68	127.57	-75.89	QP	100	112	
2	0.0340	19.98	20.82	40.80	116.83	-76.03	QP	100	352	
3	0.0489	19.47	19.32	38.79	113.69	-74.90	QP	100	208	
4	0.0919	19.18	13.07	32.25	108.25	-76.00	QP	100	134	
5	0.1130	19.12	11.28	30.40	106.46	-76.06	QP	100	330	
6	0.1329	19.10	10.04	29.14	105.06	-75.92	QP	100	179	

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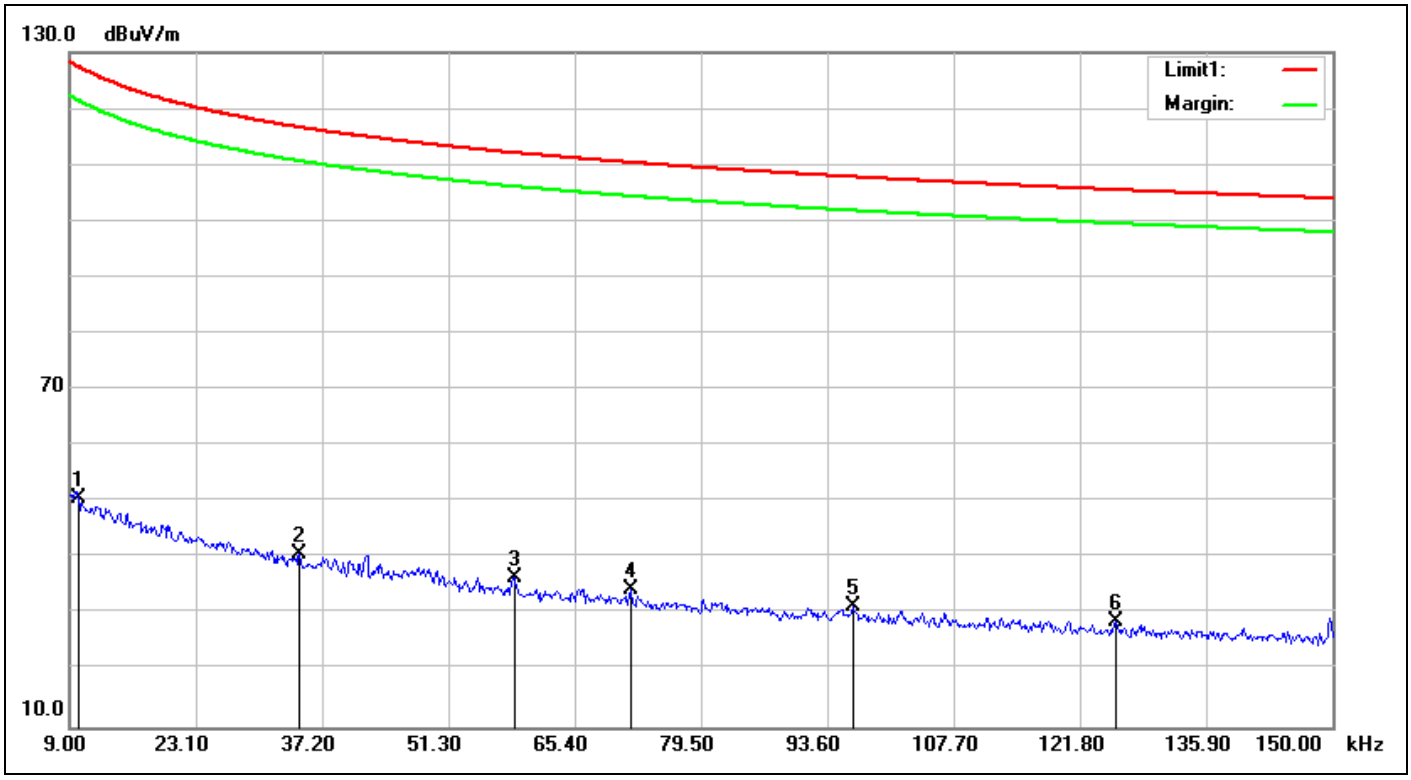

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:18:14**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0099	19.90	30.69	50.59	127.48	-76.89	QP	100	32	
2	0.0346	19.96	20.81	40.77	116.68	-75.91	QP	100	158	
3	0.0586	19.38	17.08	36.46	112.13	-75.67	QP	100	299	
4	0.0716	19.30	15.27	34.57	110.40	-75.83	QP	100	158	
5	0.0964	19.15	12.28	31.43	107.83	-76.40	QP	100	139	
6	0.1257	19.10	9.65	28.75	105.54	-76.79	QP	100	360	

Spurious Emissions, RX Mode, 1G-18G

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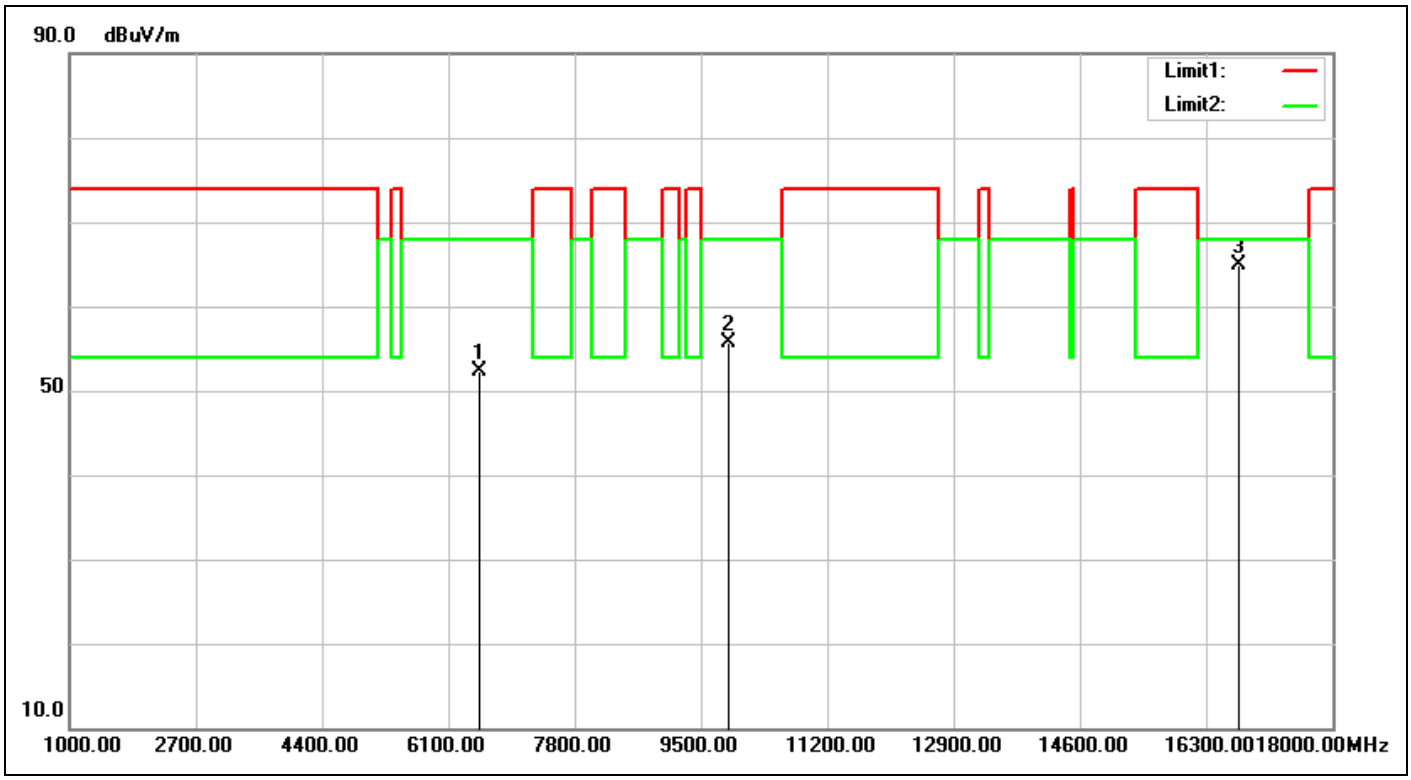

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:22:42**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	6508.000	7.93	44.36	52.29	68.00	-15.71	peak	100	202	
2	9874.000	9.33	46.30	55.63	68.00	-12.37	peak	100	196	
3	16742.000	19.70	45.13	64.83	68.00	-3.17	peak	100	0	

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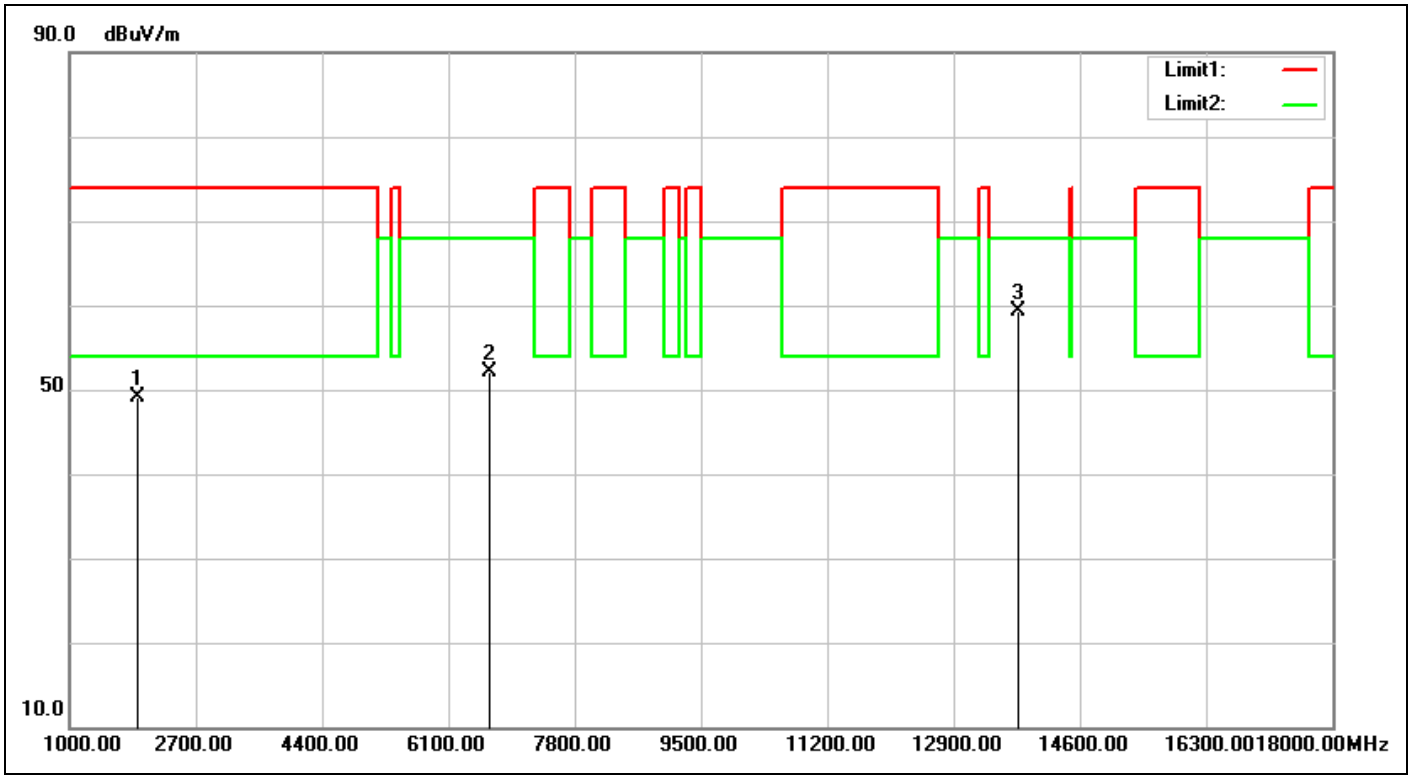

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:23:45**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-6.63	55.74	49.11	74.00	-24.89	peak	100	299	
2	6644.000	7.81	44.29	52.10	68.00	-15.90	peak	100	224	
3	13767.000	14.06	45.17	59.23	68.00	-8.77	peak	100	141	

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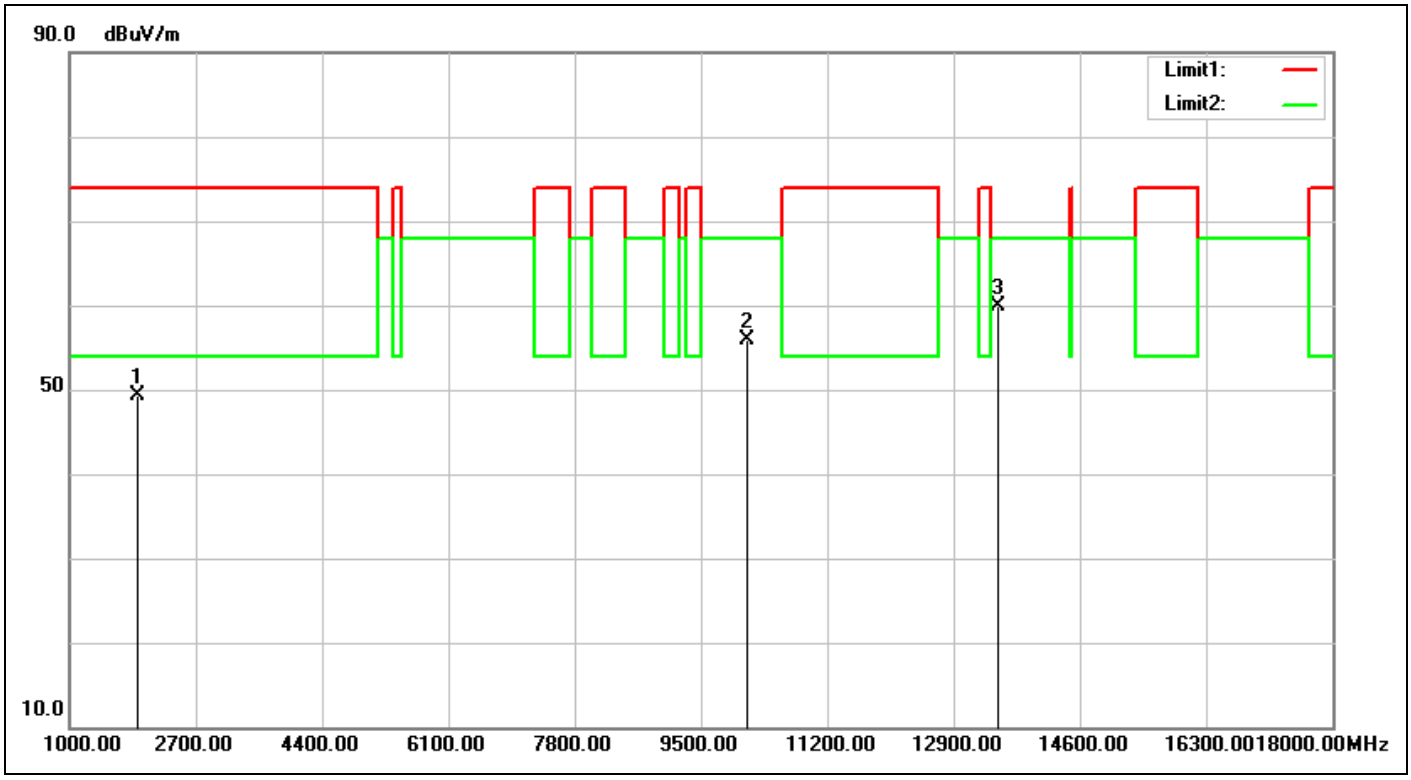

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:27:46**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-6.63	55.97	49.34	74.00	-24.66	peak	100	38	
2	10112.000	8.92	46.92	55.84	68.00	-12.16	peak	100	297	
3	13495.000	14.28	45.65	59.93	68.00	-8.07	peak	100	359	

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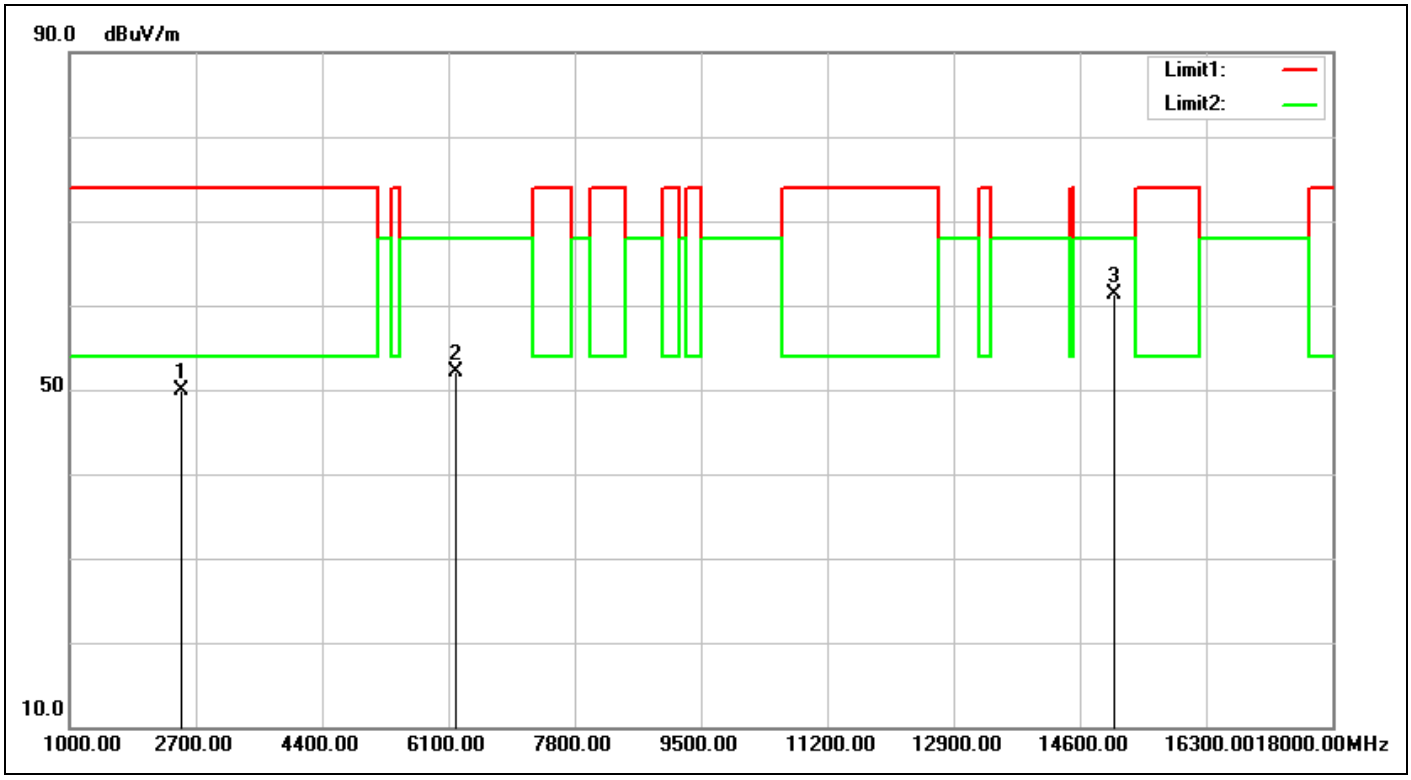

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:28:49**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	2513.000	-5.79	55.63	49.84	74.00	-24.16	peak	100	340	
2	6202.000	6.72	45.34	52.06	68.00	-15.94	peak	100	253	
3	15059.000	14.56	46.82	61.38	68.00	-6.62	peak	100	247	

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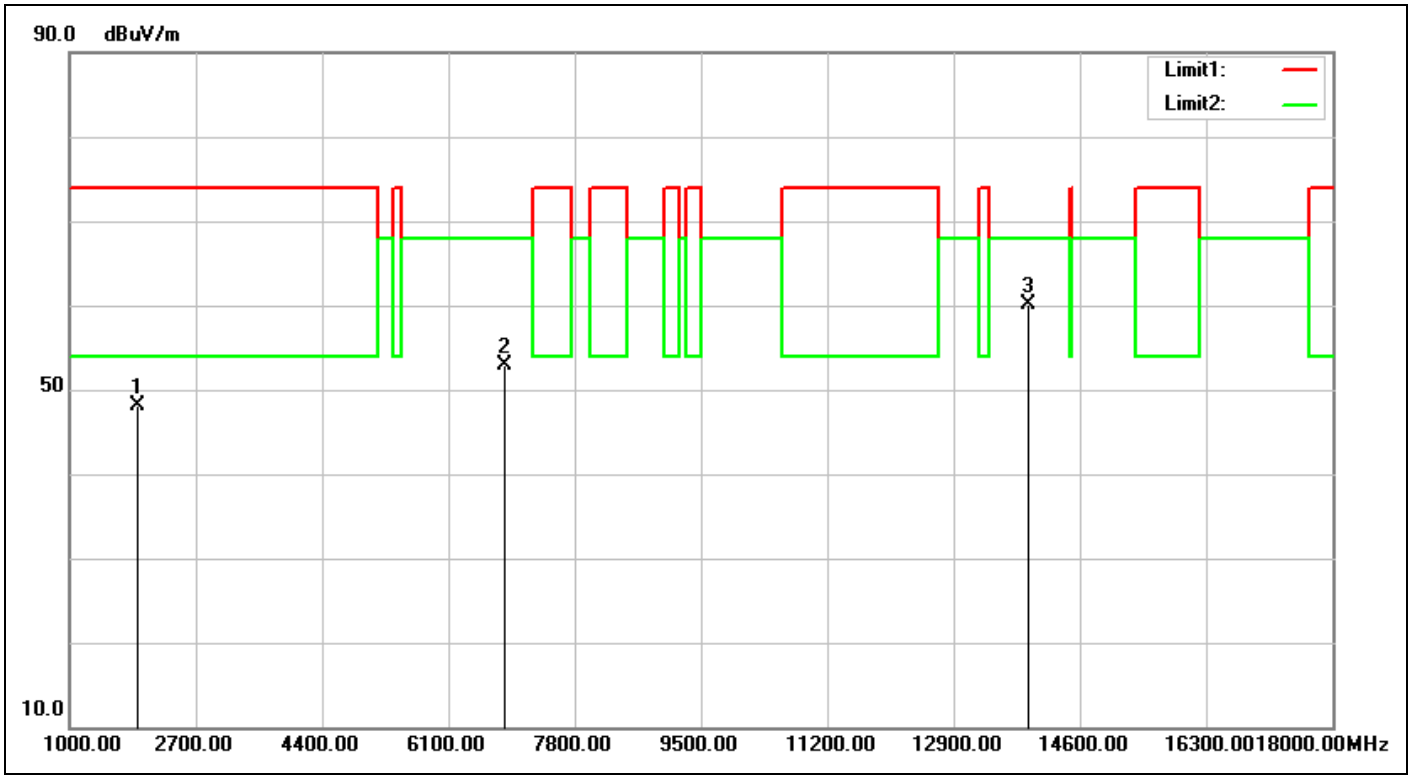

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:30:33**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-6.63	54.75	48.12	74.00	-25.88	peak	100	0	
2	6865.000	7.60	45.35	52.95	68.00	-15.05	peak	100	237	
3	13903.000	13.95	46.16	60.11	68.00	-7.89	peak	100	173	

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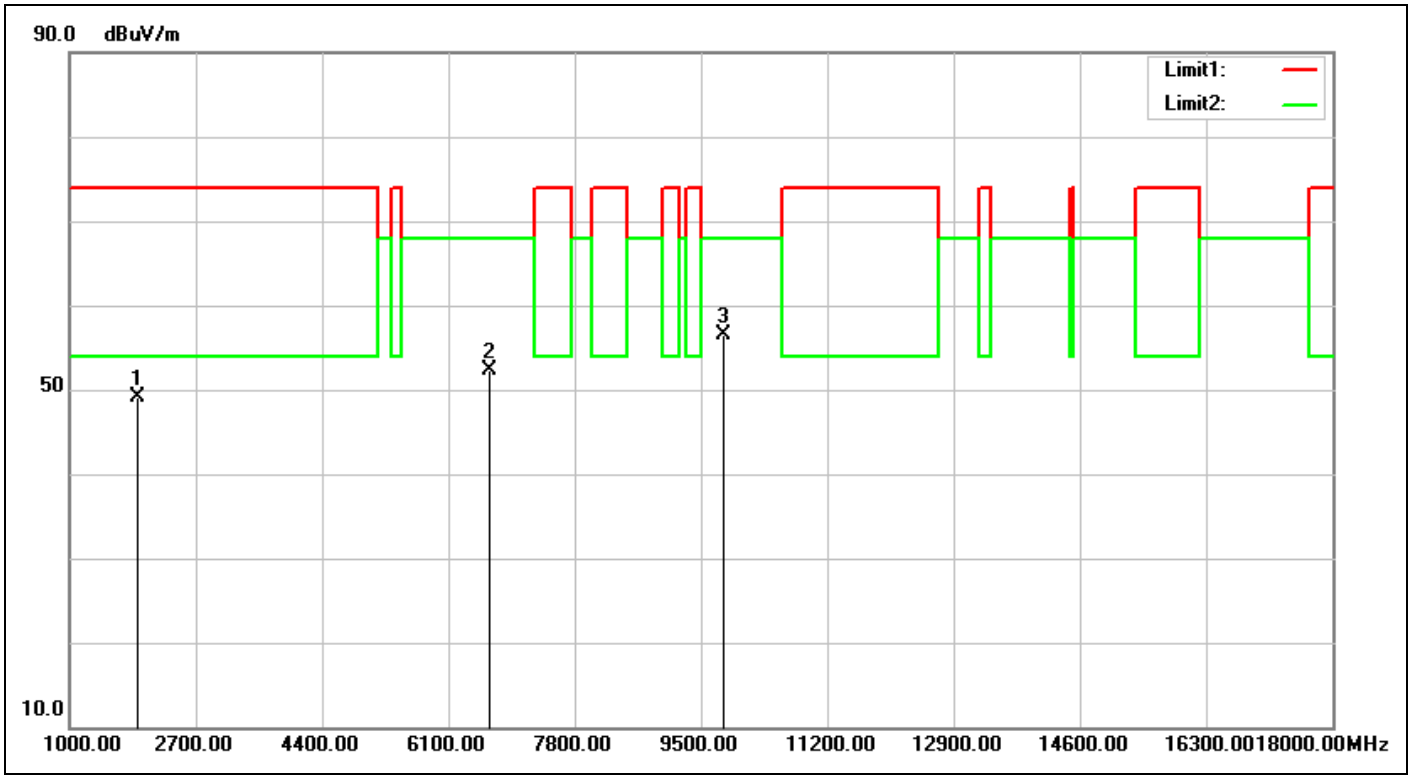

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/17 11:31:36**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**22(℃)/56%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	1918.000	-6.63	55.80	49.17	74.00	-24.83	peak	100	299	
2	6661.000	7.79	44.45	52.24	68.00	-15.76	peak	100	81	
3	9806.000	9.43	47.05	56.48	68.00	-11.52	peak	100	244	

Spurious Emissions, RX Mode, 18G-40G

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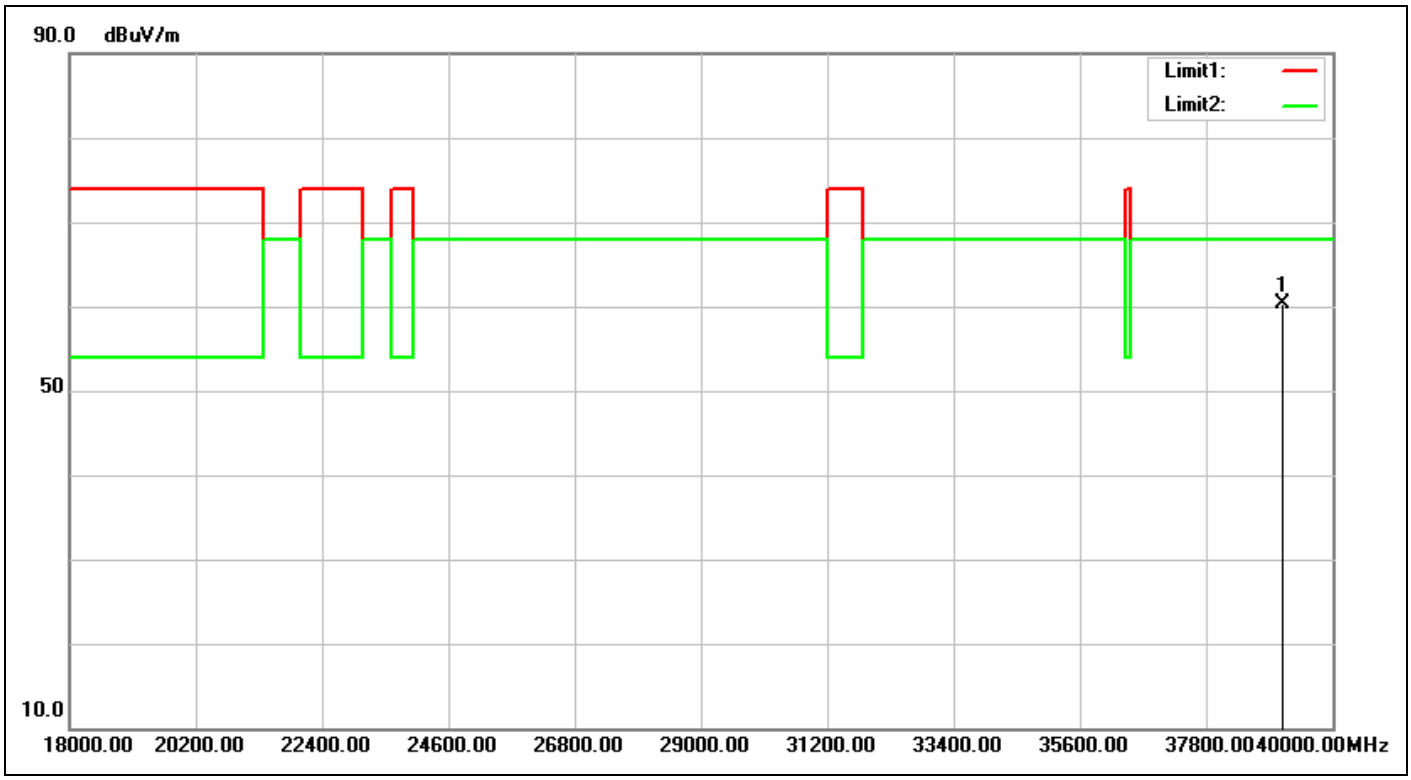

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:03:39**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39142.000	40.05	20.33	60.38	68.00	-7.62	peak			

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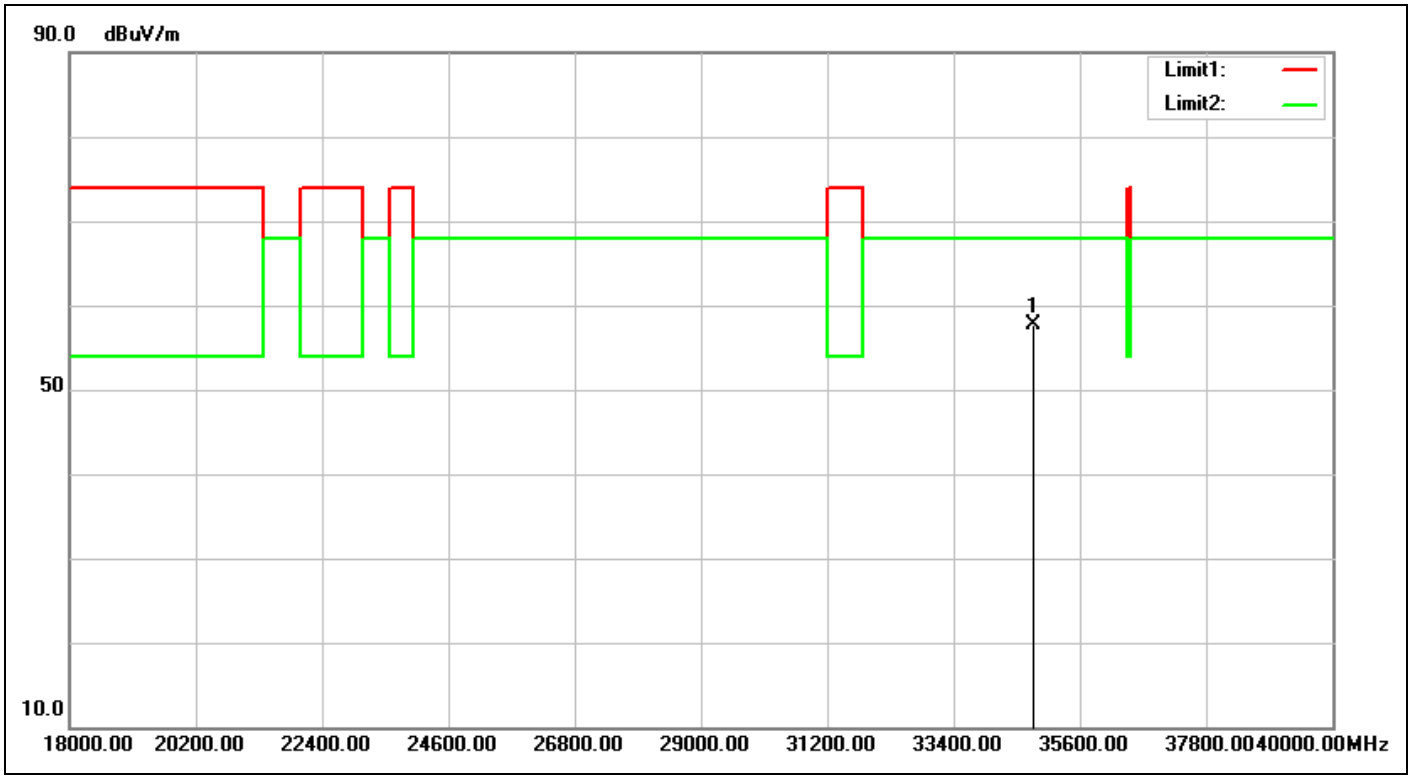

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:03:48**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	34786.000	39.82	17.92	57.74	68.00	-10.26	peak			

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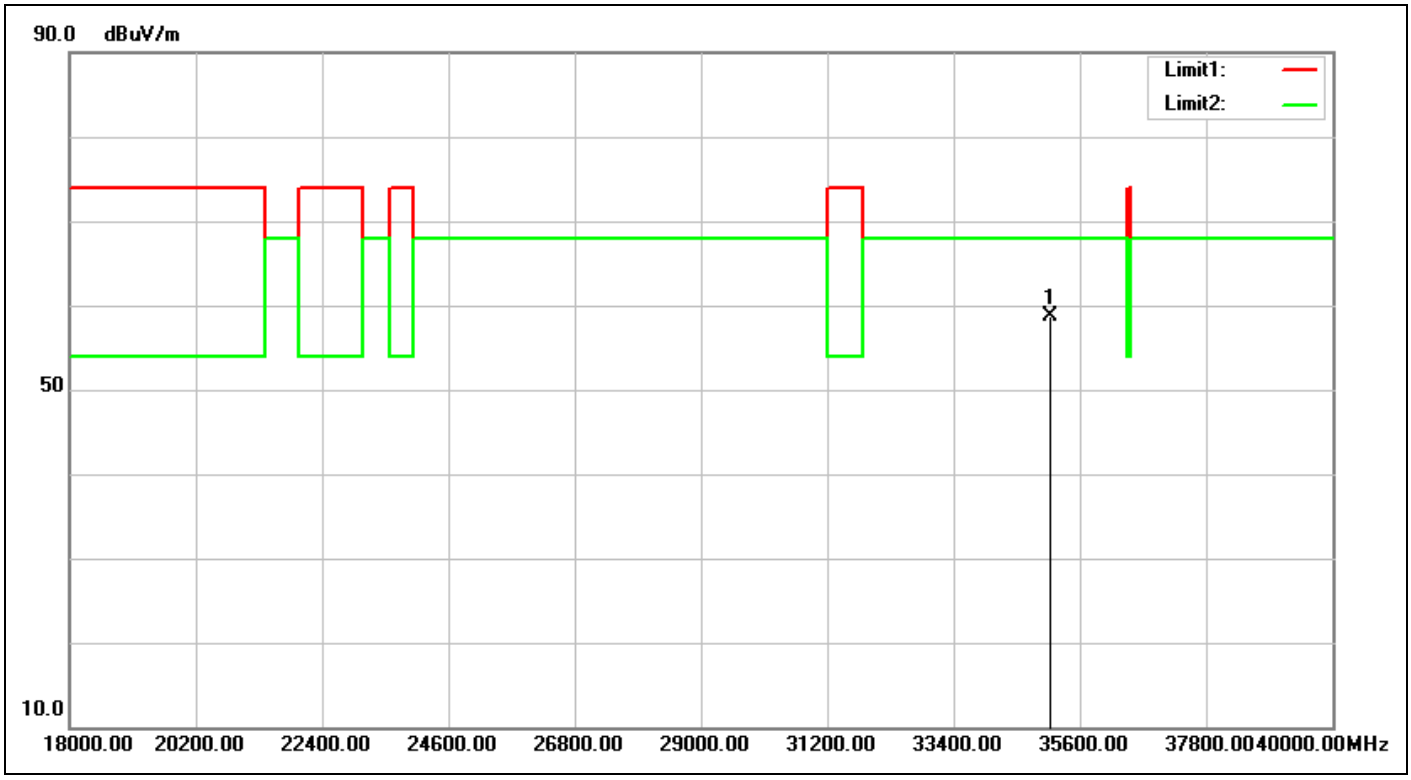

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:04:01**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35094.000	39.93	18.87	58.80	68.00	-9.20	peak			

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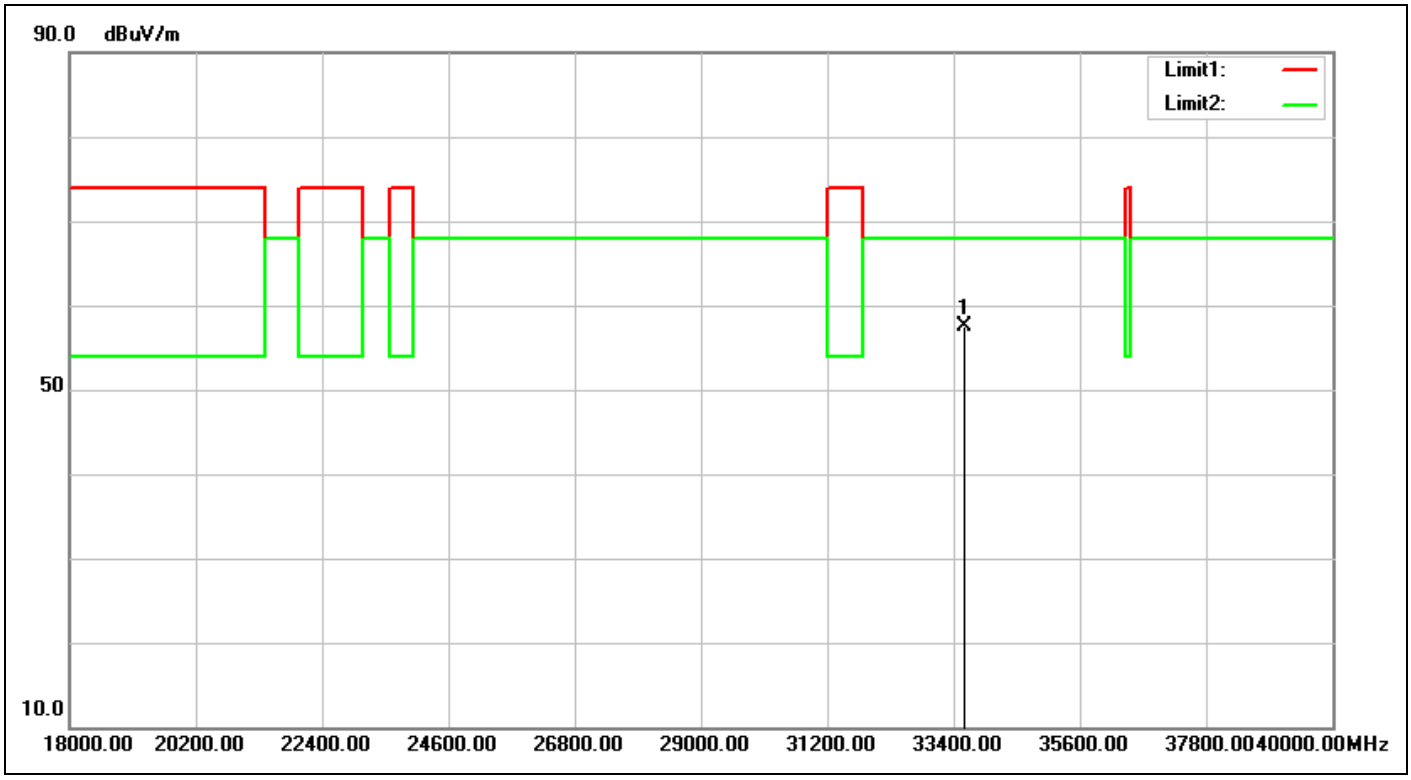

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:04:08**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	33576.000	39.27	18.28	57.55	68.00	-10.45	peak			

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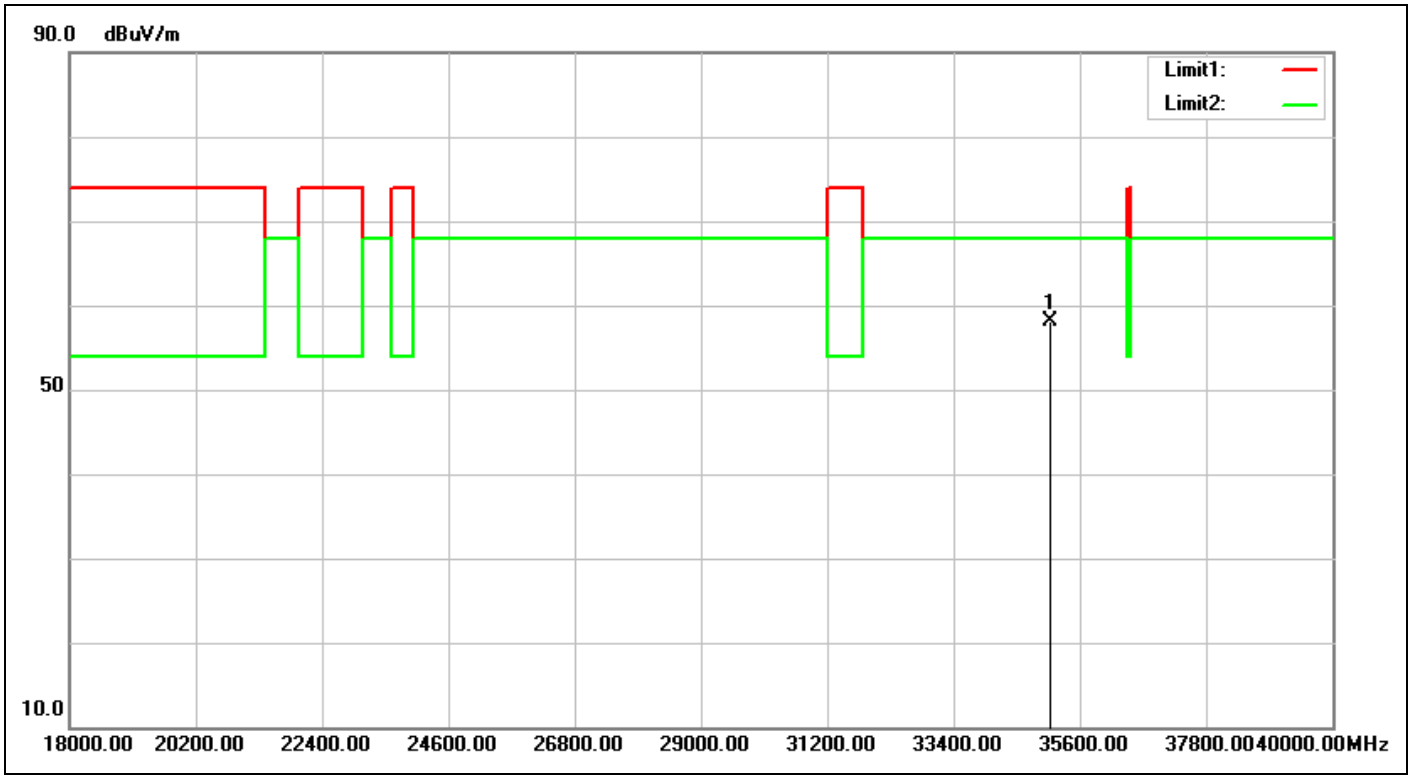

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:02:31**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	35094.000	39.93	18.17	58.10	68.00	-9.90	peak		0	

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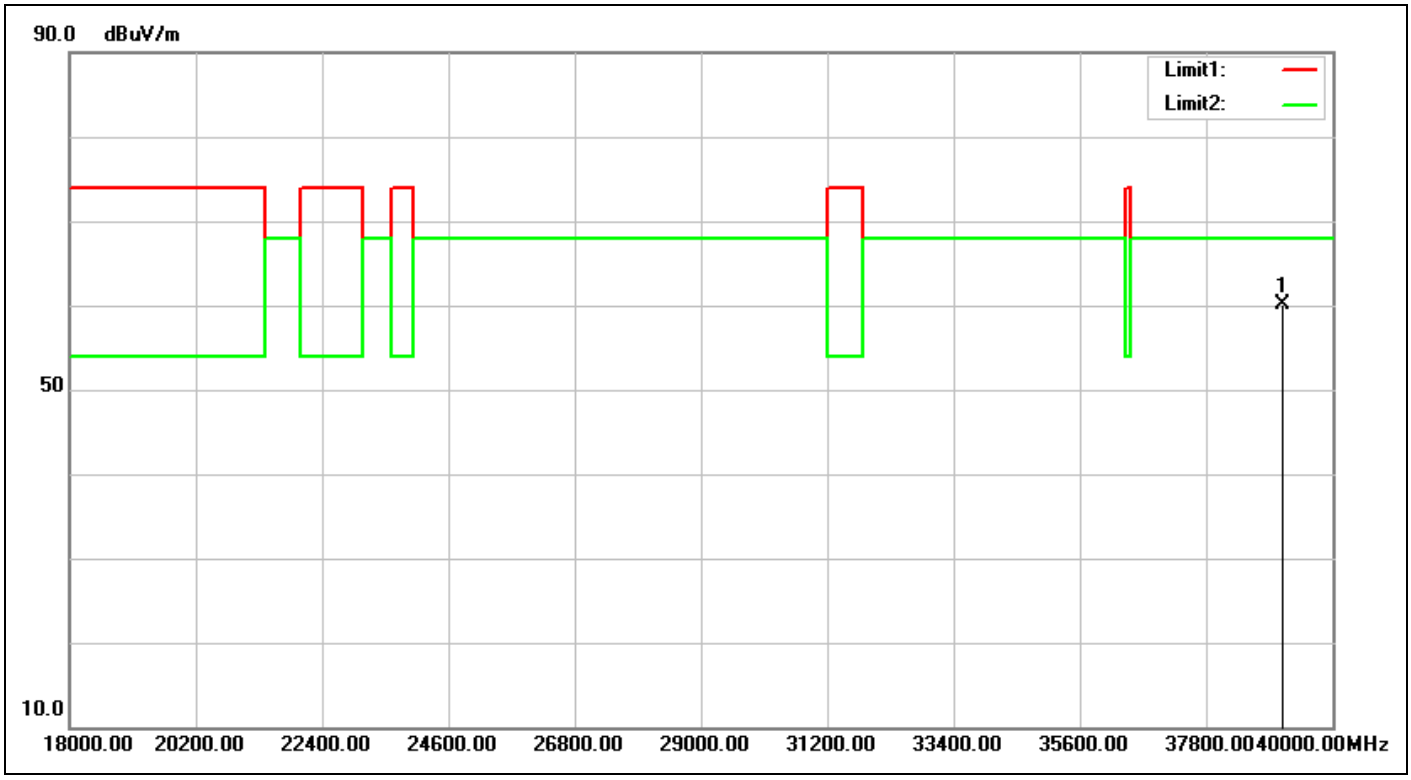

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**1-40G UNII PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/16 16:02:43**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/54%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	39142.000	40.05	20.00	60.05	68.00	-7.95	peak			

Spurious Emissions, RX Mode, 30M-1G

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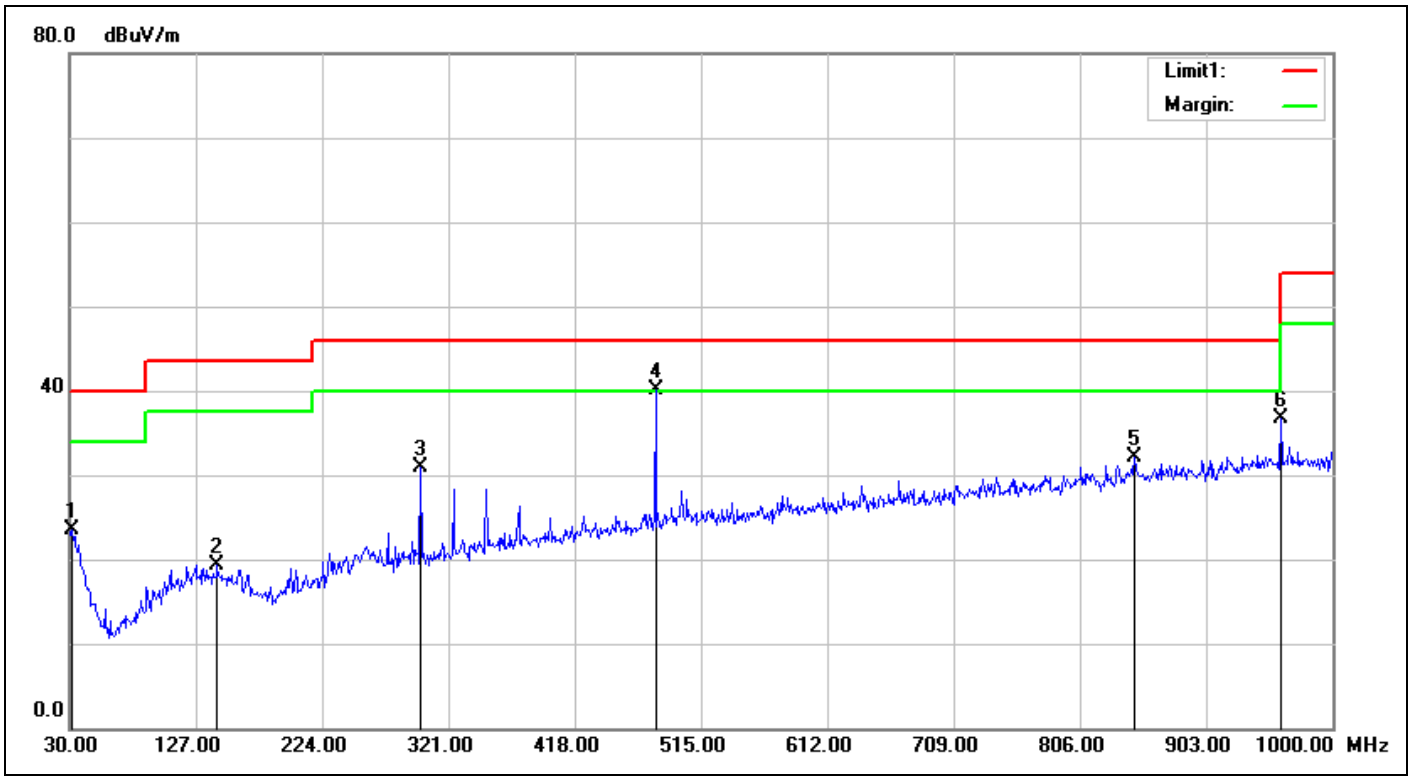

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:41:41**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	31.9400	-2.31	25.77	23.46	40.00	-16.54	QP	100	166	
2	143.4900	-8.19	27.56	19.37	43.50	-24.13	QP	100	2	
3	299.6600	-5.72	36.55	30.83	46.00	-15.17	QP	100	272	
4	480.0799	-2.48	42.60	40.12	46.00	-5.88	QP	100	70	
5	847.7100	3.18	28.85	32.03	46.00	-13.97	QP	100	56	
6	960.2300	5.11	31.56	36.67	54.00	-17.33	QP	100	211	

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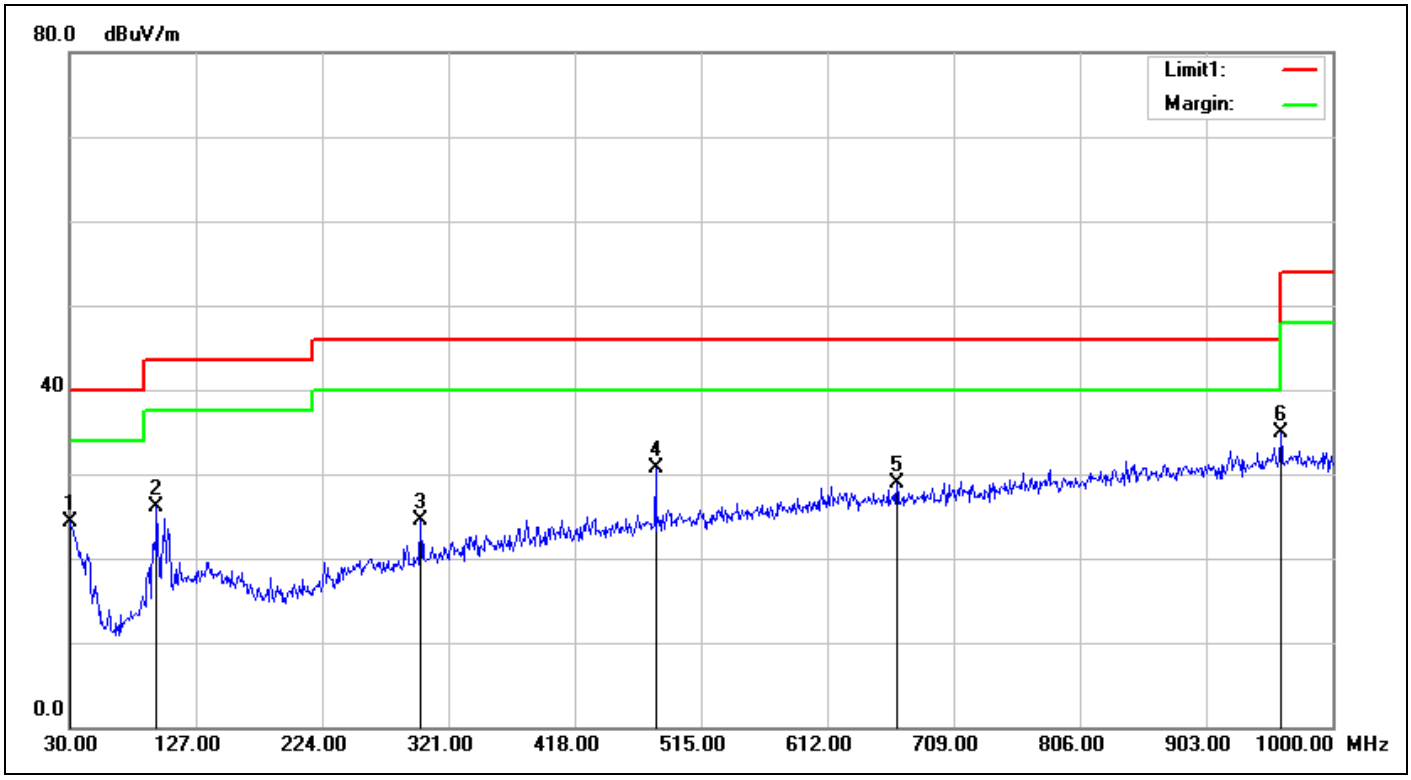

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:42:44**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.60	24.29	40.00	-15.71	QP	100	152	
2	96.9300	-11.09	37.13	26.04	43.50	-17.46	QP	100	192	
3	299.6600	-5.72	30.25	24.53	46.00	-21.47	QP	100	227	
4	480.0800	-2.48	33.12	30.64	46.00	-15.36	QP	100	43	
5	665.3500	-0.11	28.93	28.82	46.00	-17.18	QP	100	243	
6	960.2300	5.11	29.75	34.86	54.00	-19.14	QP	100	187	

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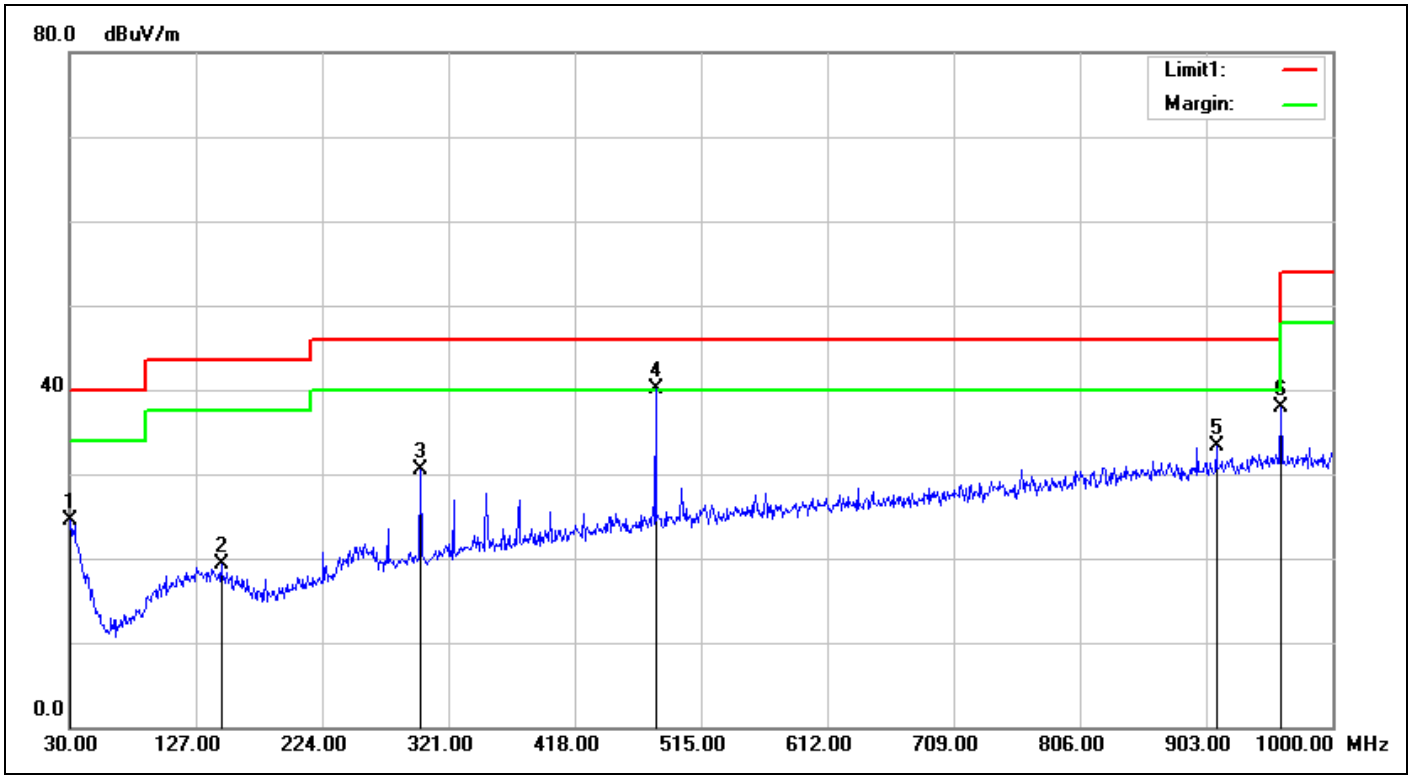

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:44:40**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.9699	-1.80	26.30	24.50	40.00	-15.50	QP	100	171	
2	146.4000	-8.30	27.57	19.27	43.50	-24.23	QP	100	221	
3	299.6600	-5.72	36.16	30.44	46.00	-15.56	QP	100	306	
4	480.0799	-2.48	42.63	40.15	46.00	-5.85	QP	100	61	
5	910.7599	4.03	29.27	33.30	46.00	-12.70	QP	100	181	
6	960.2300	5.11	32.75	37.86	54.00	-16.14	QP	100	235	

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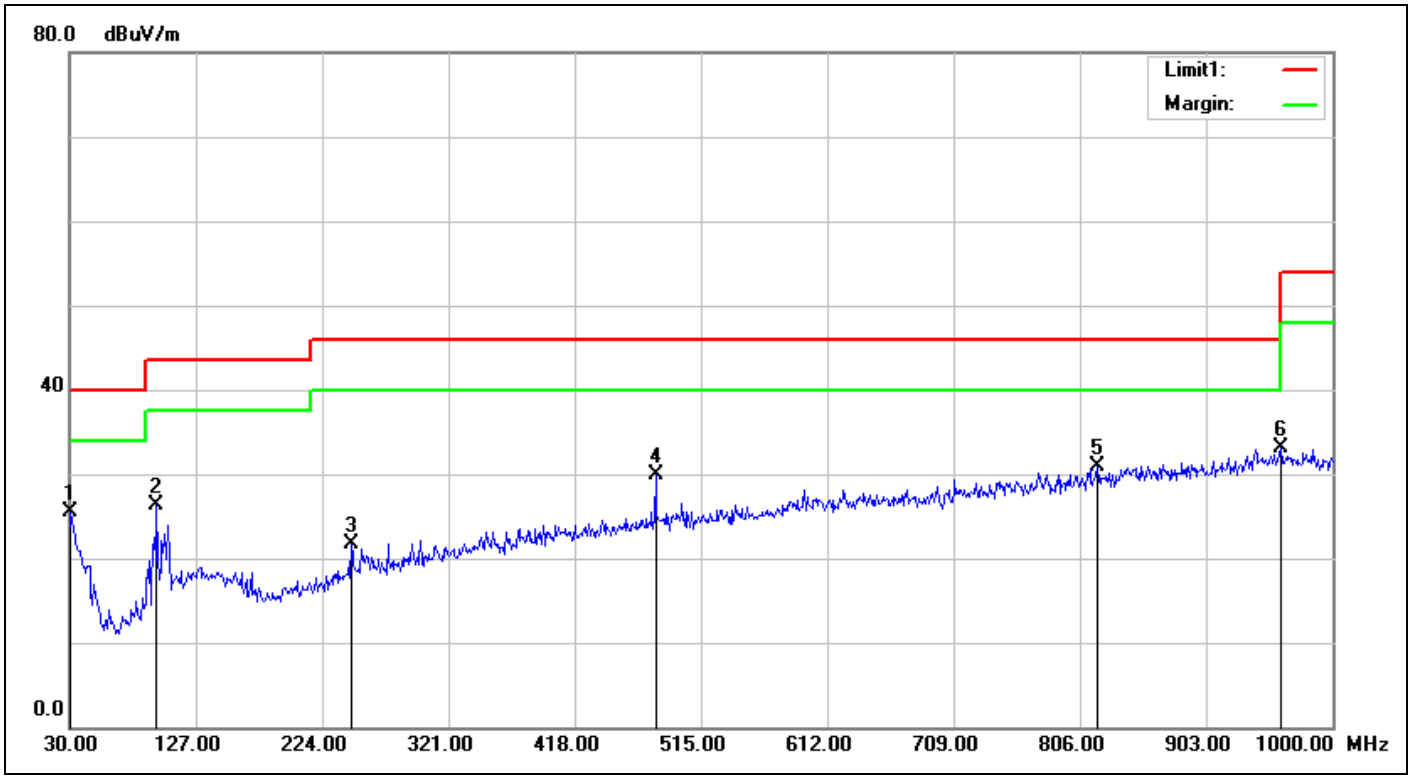

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:45:43**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	26.82	25.51	40.00	-14.49	QP	100	320	
2	96.9300	-11.09	37.31	26.22	43.50	-17.28	QP	100	224	
3	246.3100	-7.35	29.01	21.66	46.00	-24.34	QP	100	86	
4	480.0800	-2.48	32.43	29.95	46.00	-16.05	QP	100	104	
5	819.5800	2.63	28.19	30.82	46.00	-15.18	QP	100	3	
6	960.2300	5.11	28.02	33.13	54.00	-20.87	QP	100	158	

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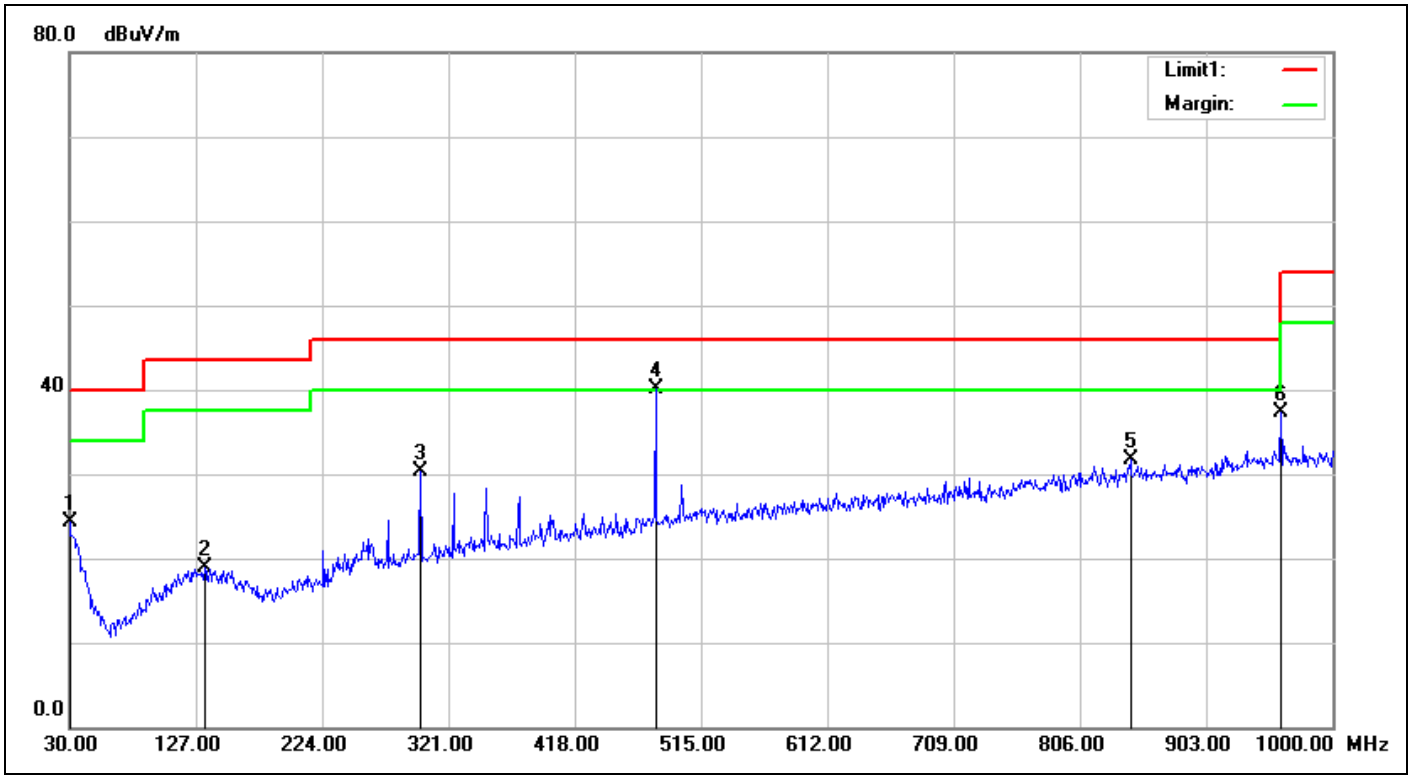

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:47:43**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.64	24.33	40.00	-15.67	QP	100	226	
2	133.7899	-8.06	26.98	18.92	43.50	-24.58	QP	100	80	
3	299.6600	-5.72	36.11	30.39	46.00	-15.61	QP	100	101	
4	480.0799	-2.48	42.65	40.17	46.00	-5.83	QP	100	61	
5	844.7999	3.13	28.65	31.78	46.00	-14.22	QP	100	224	
6	960.2300	5.11	32.22	37.33	54.00	-16.67	QP	100	213	

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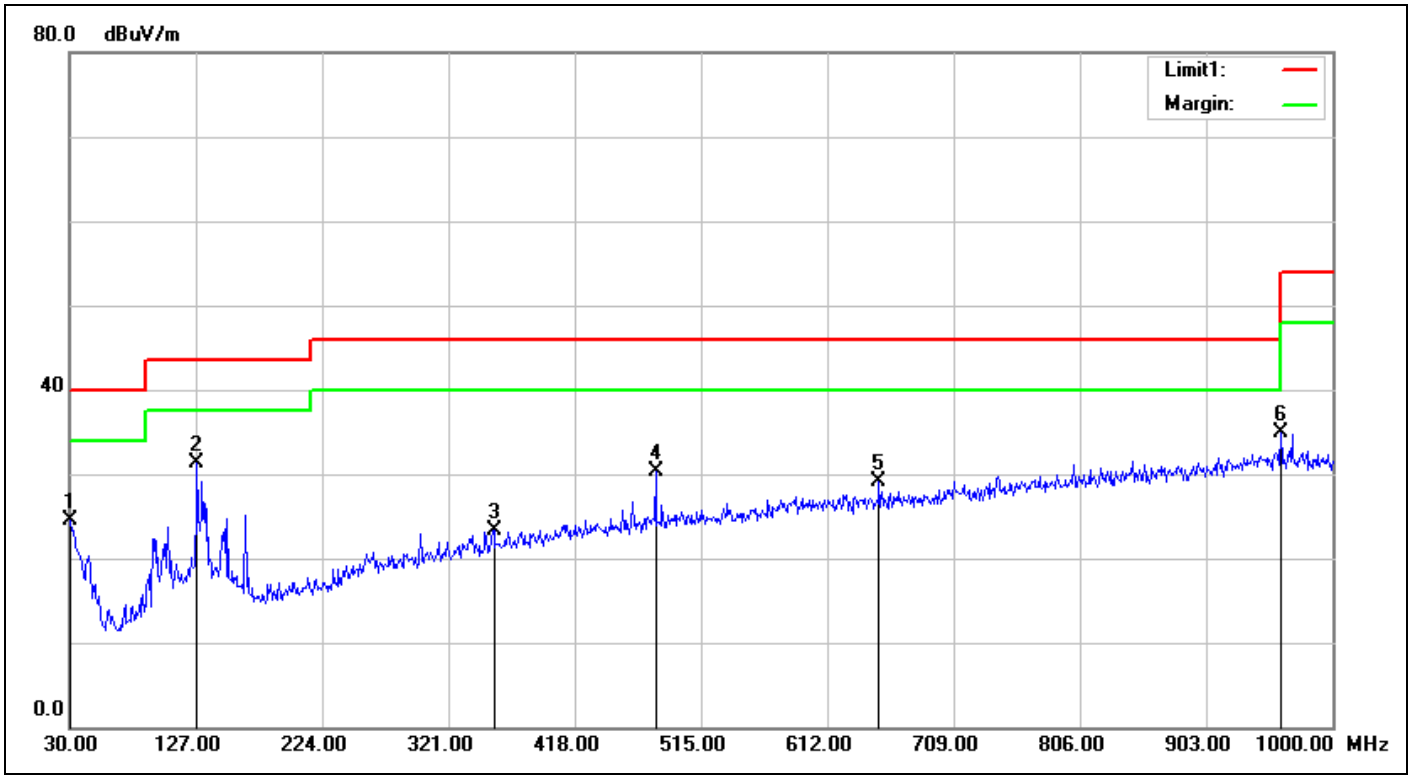

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:48:46**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	30.0000	-1.31	25.78	24.47	40.00	-15.53	QP	100	315	
2	127.9700	-8.14	39.45	31.31	43.50	-12.19	QP	100	149	
3	355.9200	-4.36	27.65	23.29	46.00	-22.71	QP	100	296	
4	480.0800	-2.48	32.77	30.29	46.00	-15.71	QP	100	97	
5	651.7700	-0.23	29.37	29.14	46.00	-16.86	QP	100	346	
6	960.2300	5.11	29.88	34.99	54.00	-19.01	QP	100	152	

Spurious Emissions, RX Mode, 150K-30M

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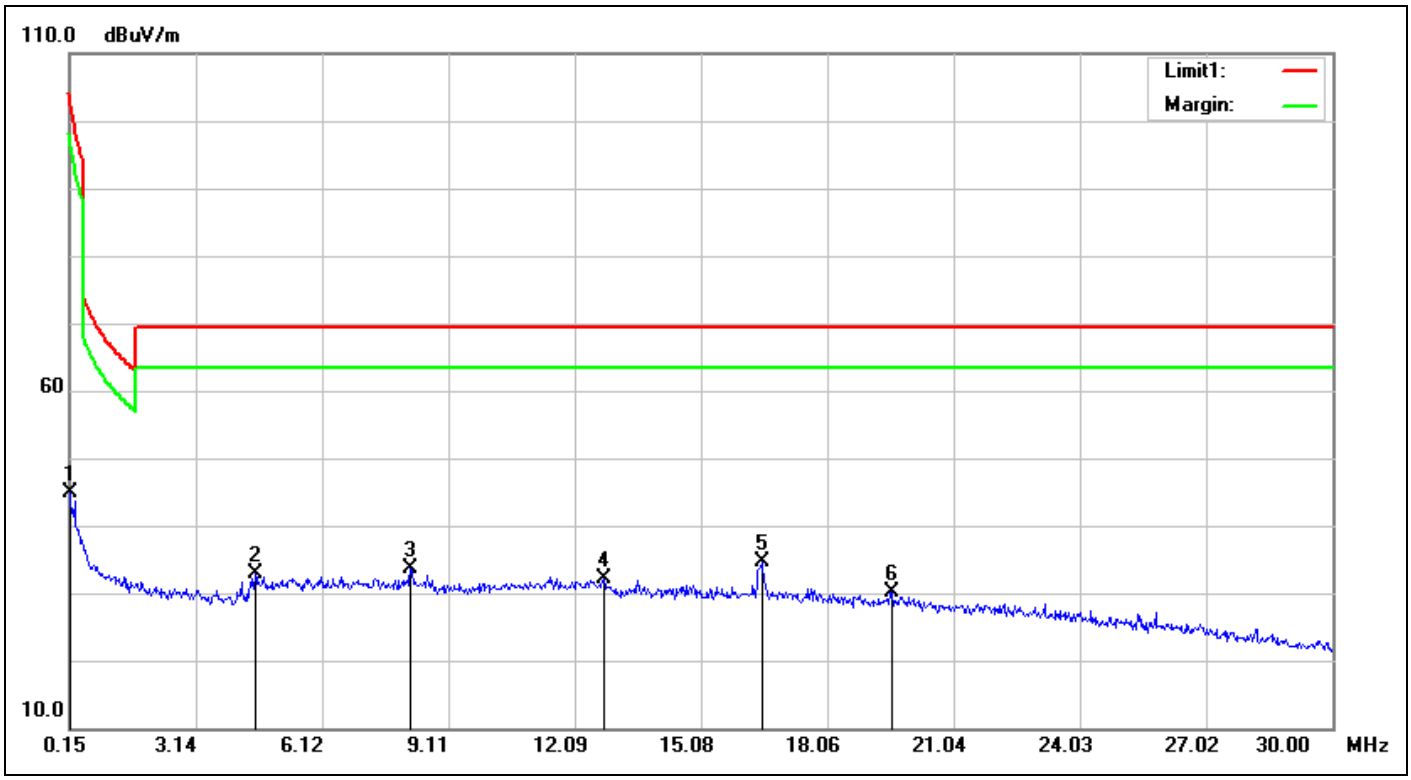

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:09:58**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.1500	19.08	25.81	44.89	104.05	-59.16	QP	100	216	
2	4.5380	19.47	13.46	32.93	69.50	-36.57	QP	100	0	
3	8.2094	20.06	13.46	33.52	69.50	-35.98	QP	100	226	
4	12.7766	20.71	11.38	32.09	69.50	-37.41	QP	100	176	
5	16.5078	21.37	13.26	34.63	69.50	-34.87	QP	100	280	
6	19.5823	21.91	8.23	30.14	69.50	-39.36	QP	100	88	

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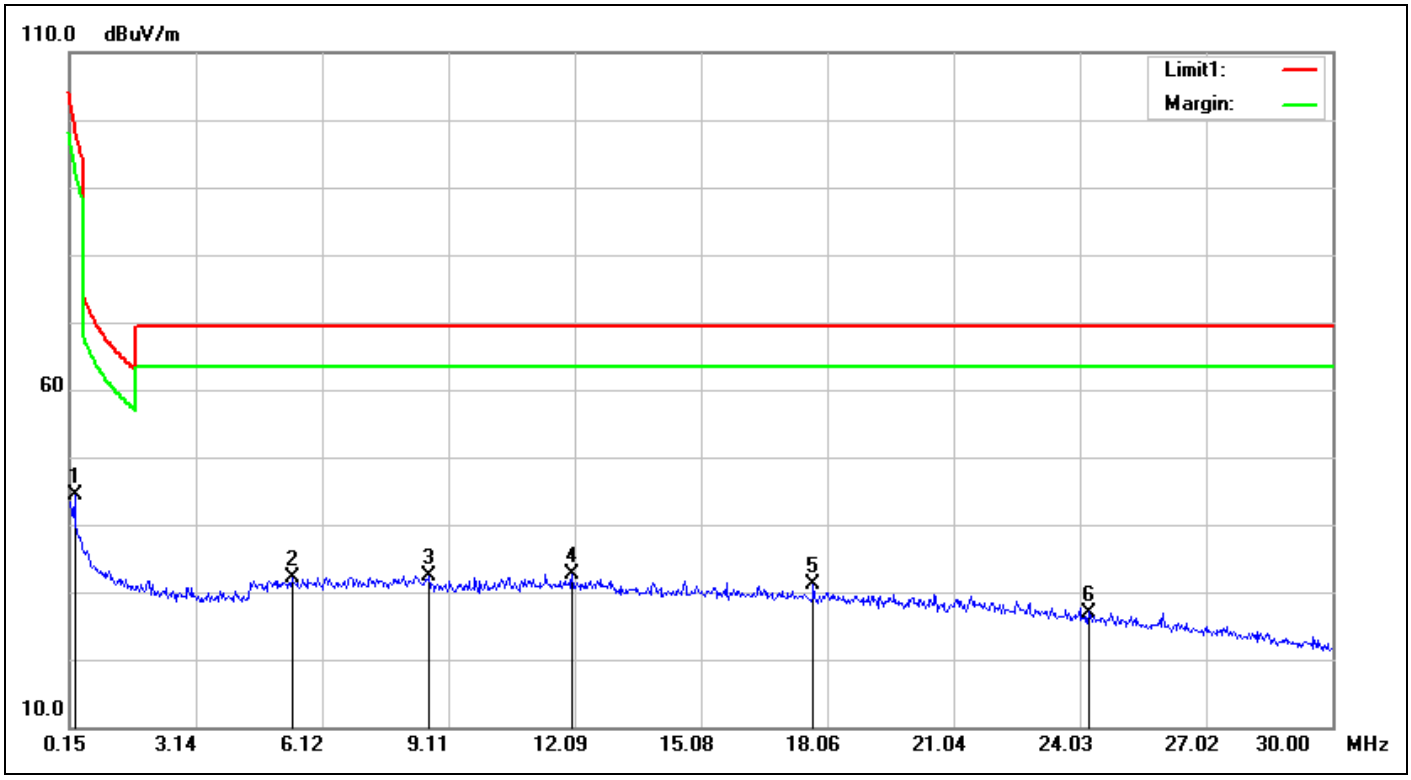

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:12:37**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.2694	18.97	25.34	44.31	98.98	-54.67	QP	100	312	
2	5.4036	19.79	12.27	32.06	69.50	-37.44	QP	100	277	
3	8.6572	20.09	12.40	32.49	69.50	-37.01	QP	100	62	
4	12.0303	20.58	12.00	32.58	69.50	-36.92	QP	100	291	
5	17.7316	21.58	9.62	31.20	69.50	-38.30	QP	100	166	
6	24.2389	22.26	4.74	27.00	69.50	-42.50	QP	100	142	

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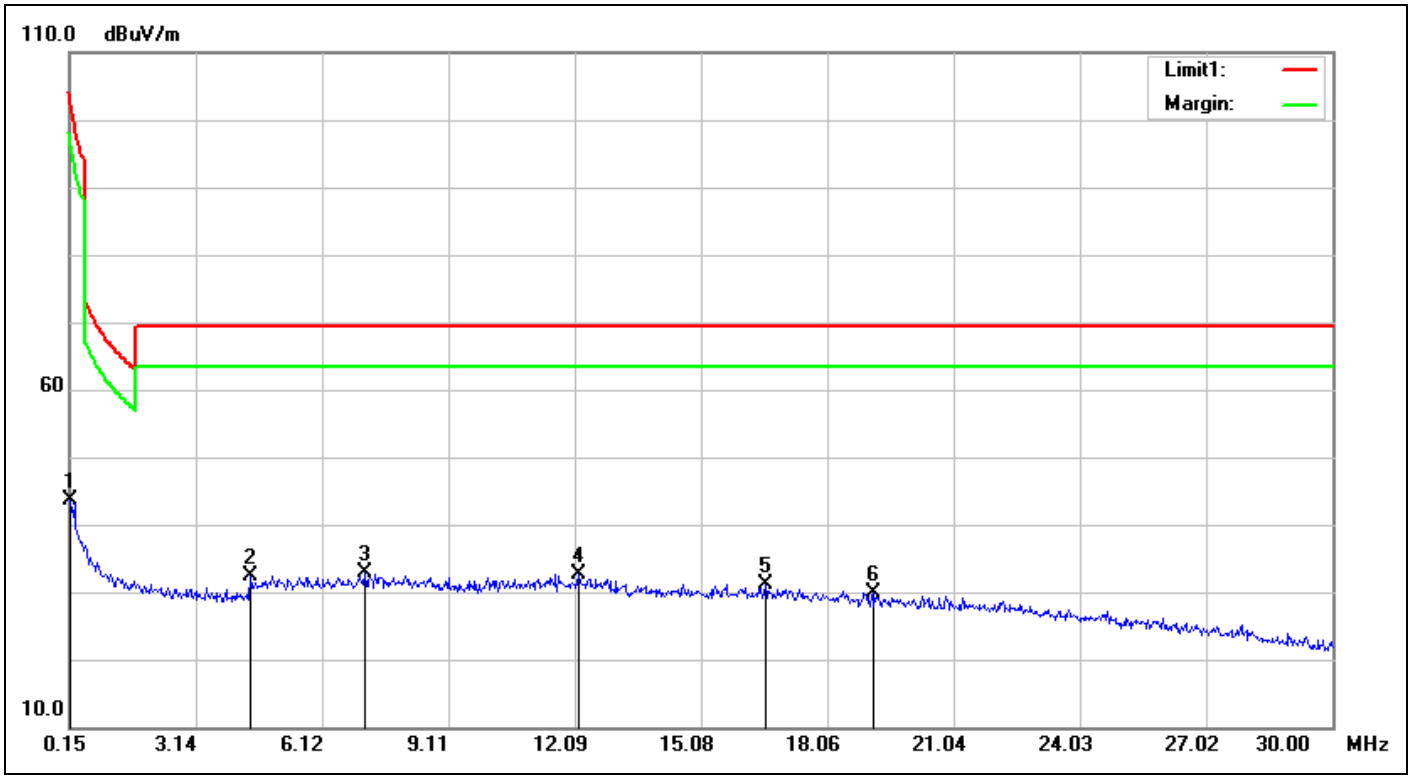

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:15:46**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.1500	19.08	24.53	43.61	104.05	-60.44	QP	100	189	
2	4.4185	19.40	13.07	32.47	69.50	-37.03	QP	100	221	
3	7.1349	19.96	12.90	32.86	69.50	-36.64	QP	100	325	
4	12.1796	20.60	11.91	32.51	69.50	-36.99	QP	100	147	
5	16.5973	21.38	9.76	31.14	69.50	-38.36	QP	100	3	
6	19.1345	21.83	8.12	29.95	69.50	-39.55	QP	100	360	

Spurious Emissions, RX Mode, 9K-150K

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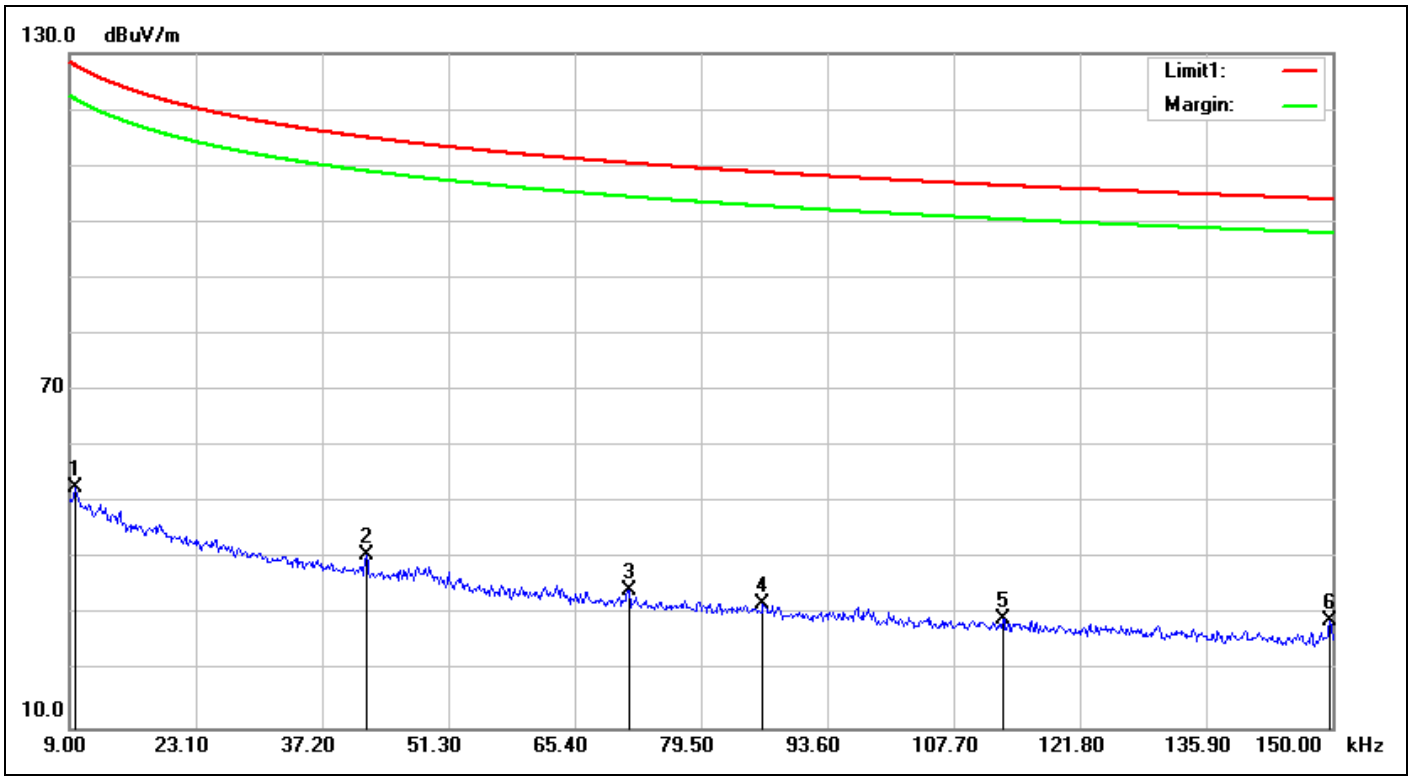

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:03:45**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5200-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0096	19.78	32.94	52.72	127.84	-75.12	QP	100	235	
2	0.0421	19.71	21.00	40.71	115.05	-74.34	QP	100	339	
3	0.0715	19.30	15.22	34.52	110.46	-75.94	QP	100	59	
4	0.0864	19.21	12.74	31.95	108.82	-76.87	QP	100	304	
5	0.1132	19.12	10.35	29.47	106.48	-77.01	QP	100	141	
6	0.1497	19.08	10.03	29.11	104.06	-74.95	QP	100	359	

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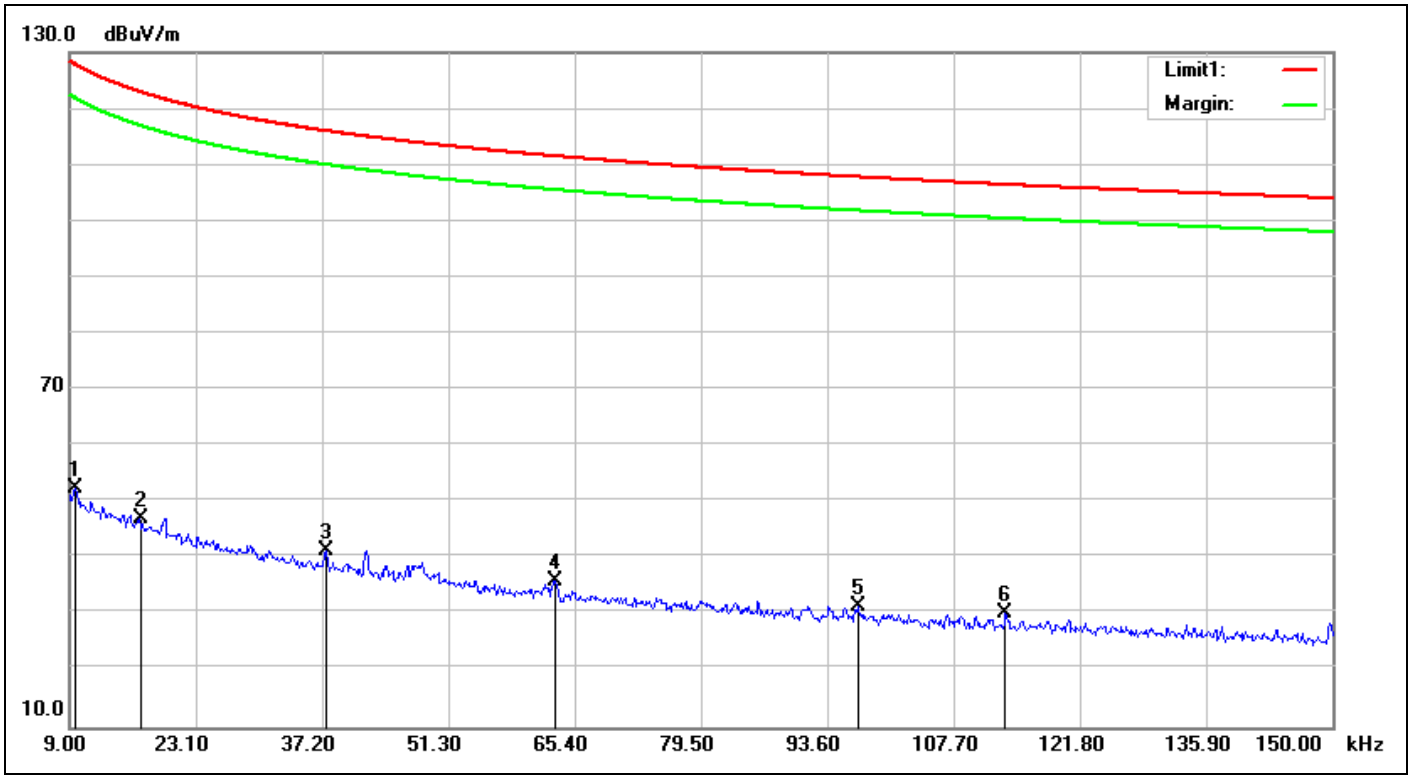

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:06:29**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5220-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0096	19.78	32.73	52.51	127.84	-75.33	QP	100	110	
2	0.0168	20.00	27.19	47.19	123.00	-75.81	QP	100	317	
3	0.0376	19.86	21.45	41.31	116.03	-74.72	QP	100	352	
4	0.0631	19.35	16.54	35.89	111.54	-75.65	QP	100	264	
5	0.0970	19.15	12.31	31.46	107.82	-76.36	QP	100	14	
6	0.1135	19.12	11.18	30.30	106.46	-76.16	QP	100	27	

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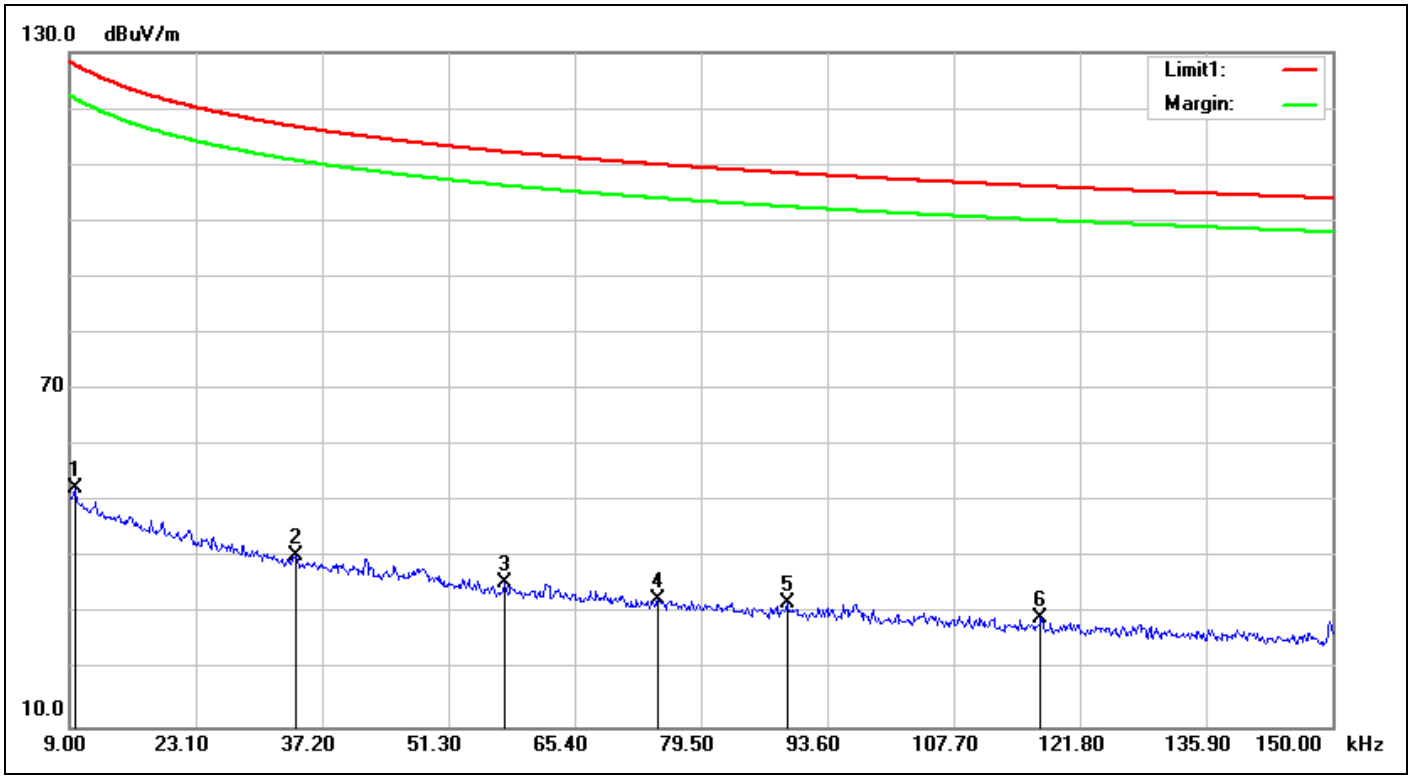

Service No.:	**114068037**	**Test Distance:**	**3m**
Test Standard:	**FCC15.209_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2017/8/15 14:19:17**
Applicant:	**TPCast**	**Test Rating:**	**DC 5V**
Product:	**Power Box**	**Temp.(℃)/Hum.(%):**	**23(℃)/57%**
Model No.:	**AD-1**	**Test Engineer:**	**George Yang**
Test Mode:	**A20-5785-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0096	19.80	32.52	52.32	127.75	-75.43	QP	100	259	
2	0.0342	19.98	20.38	40.36	116.78	-76.42	QP	100	89	
3	0.0576	19.38	16.41	35.79	112.28	-76.49	QP	100	333	
4	0.0747	19.28	13.27	32.55	110.04	-77.49	QP	100	264	
5	0.0891	19.20	12.92	32.12	108.51	-76.39	QP	100	72	
6	0.1174	19.11	10.27	29.38	106.13	-76.75	QP	100	118	