Test Report No.50142270 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50142270AppendixD)

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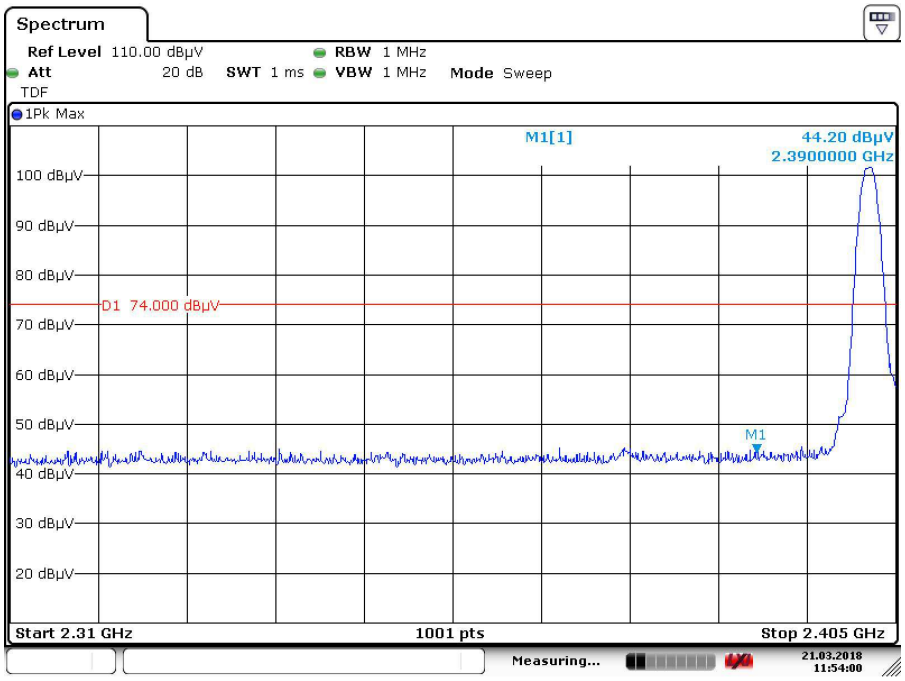
Radiated Bandedge (GFSK)

Low Channel (Hor)



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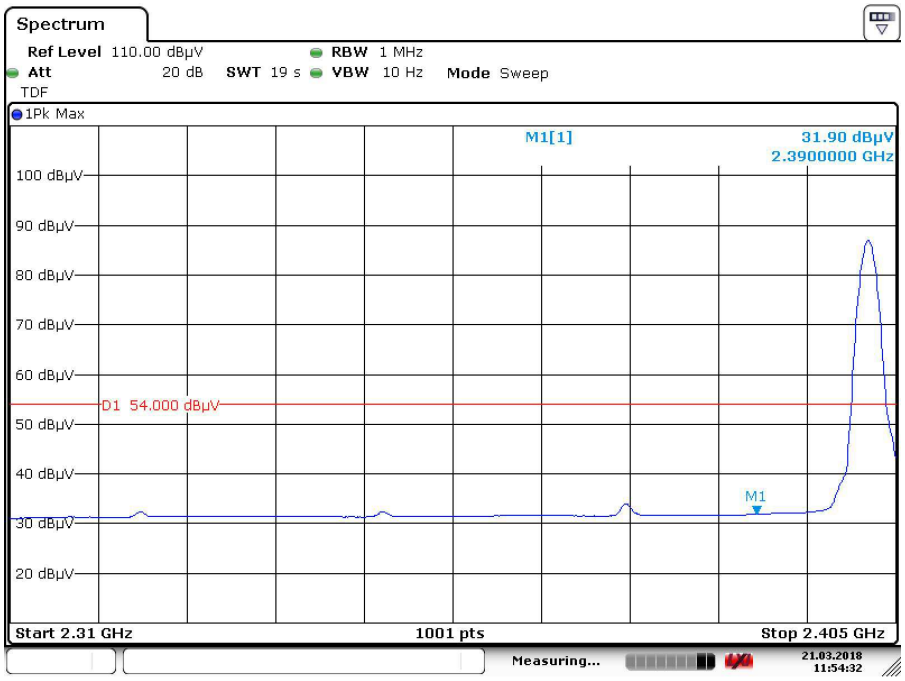

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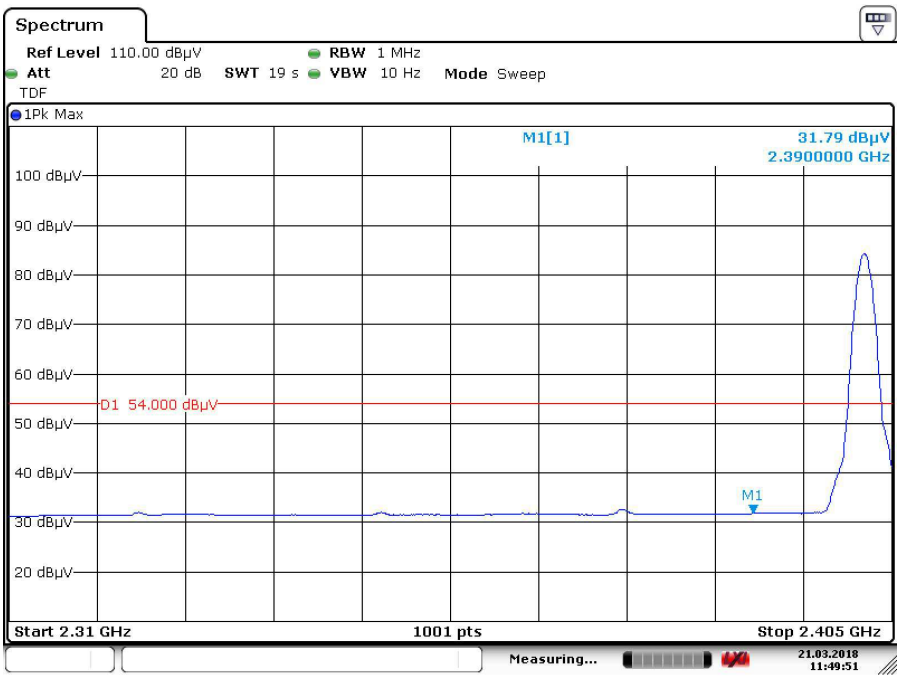
Low Channel (Ver)



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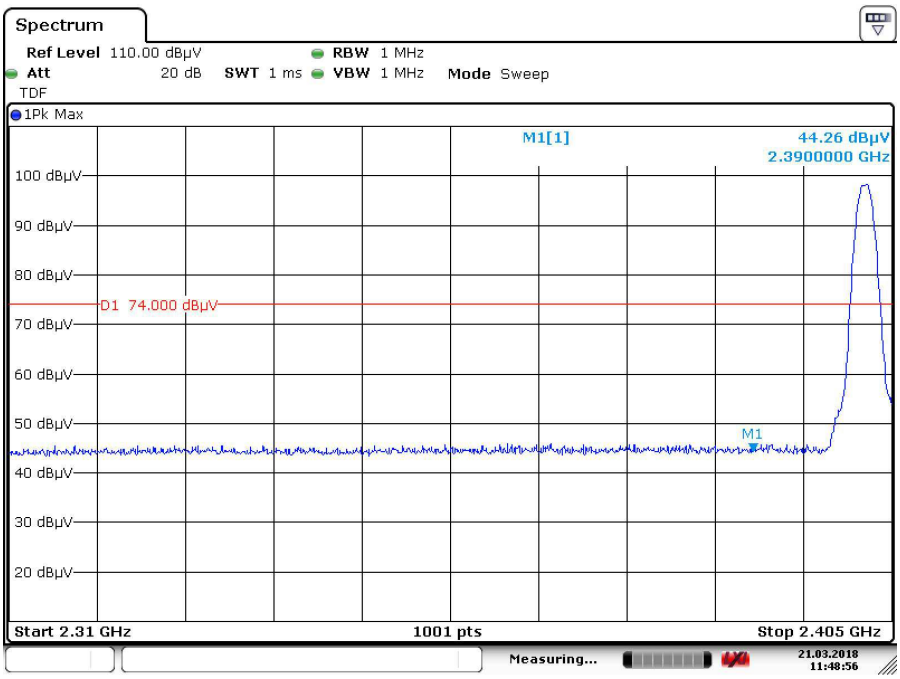

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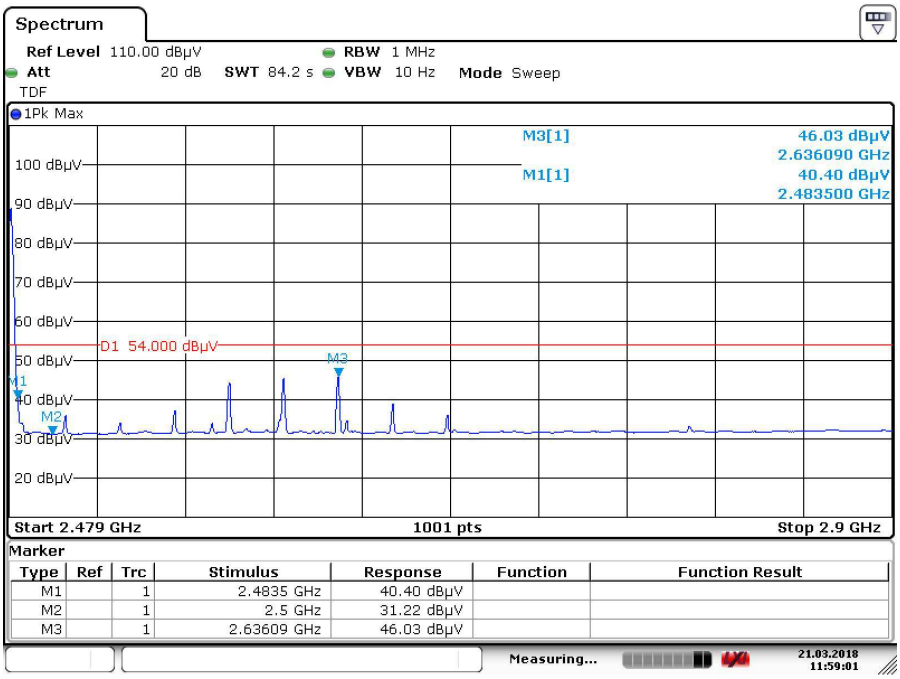
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (GFSK)

High Channel (Hor)



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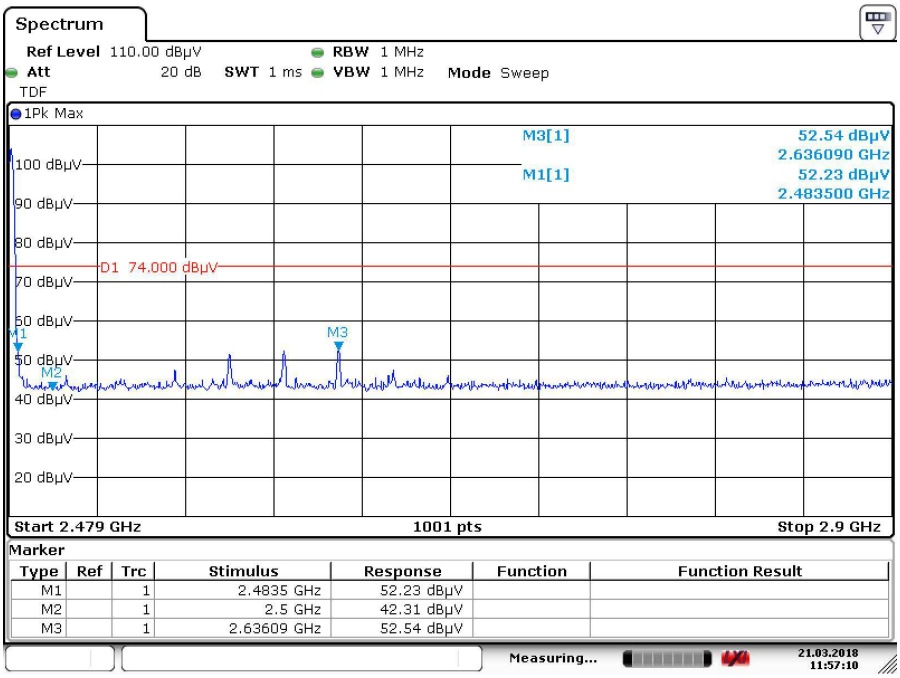

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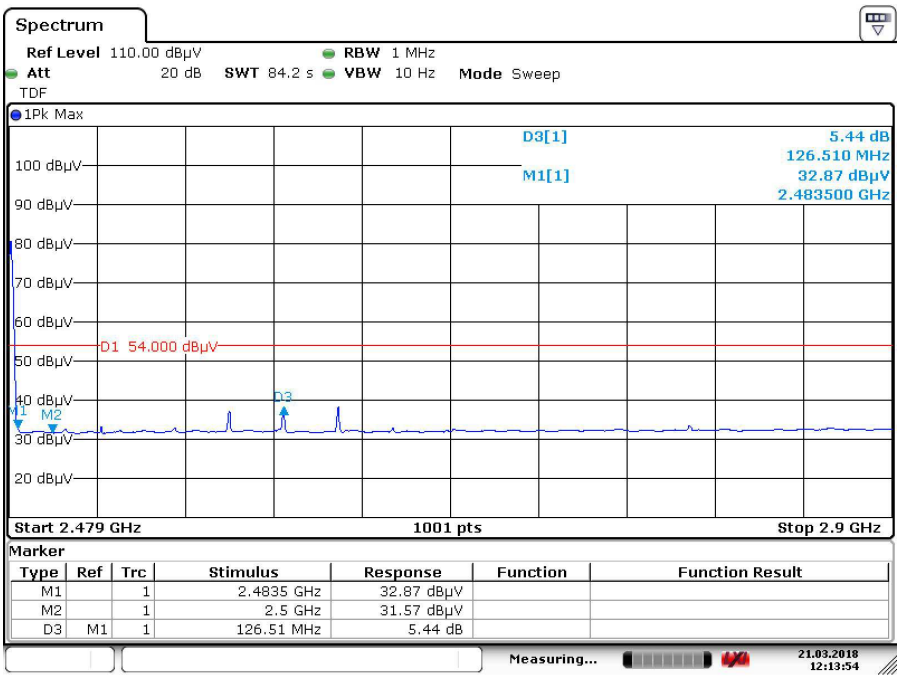
High Channel (Ver)



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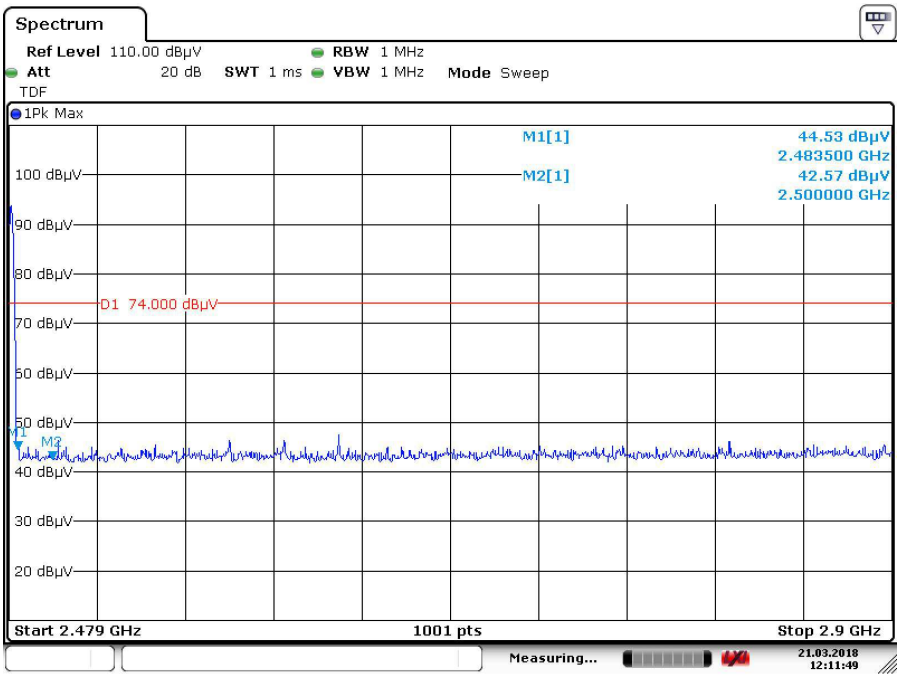

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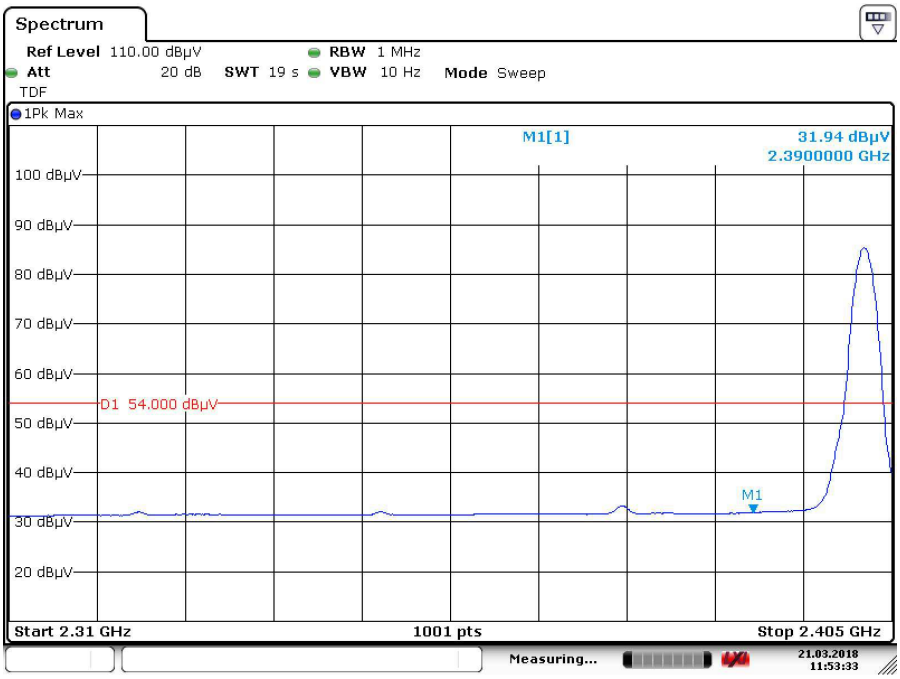
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (8DPSK)

Low Channel (Hor)



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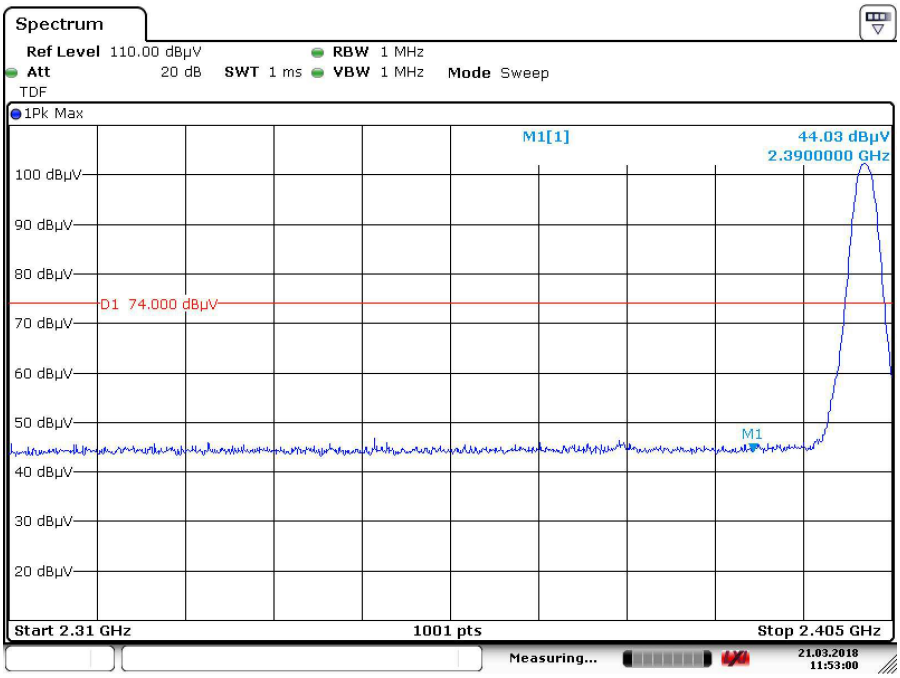

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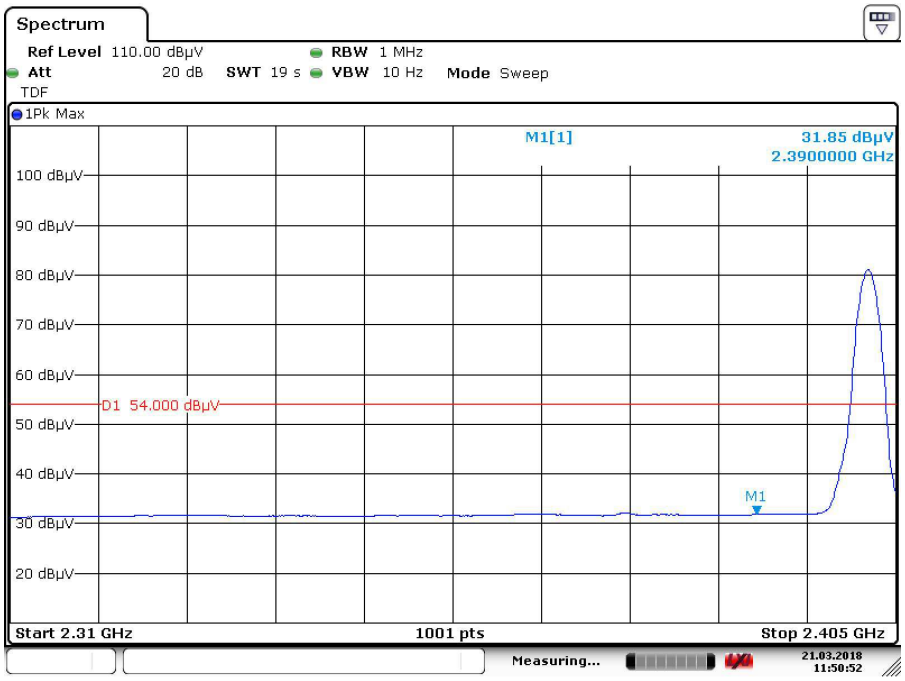
Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



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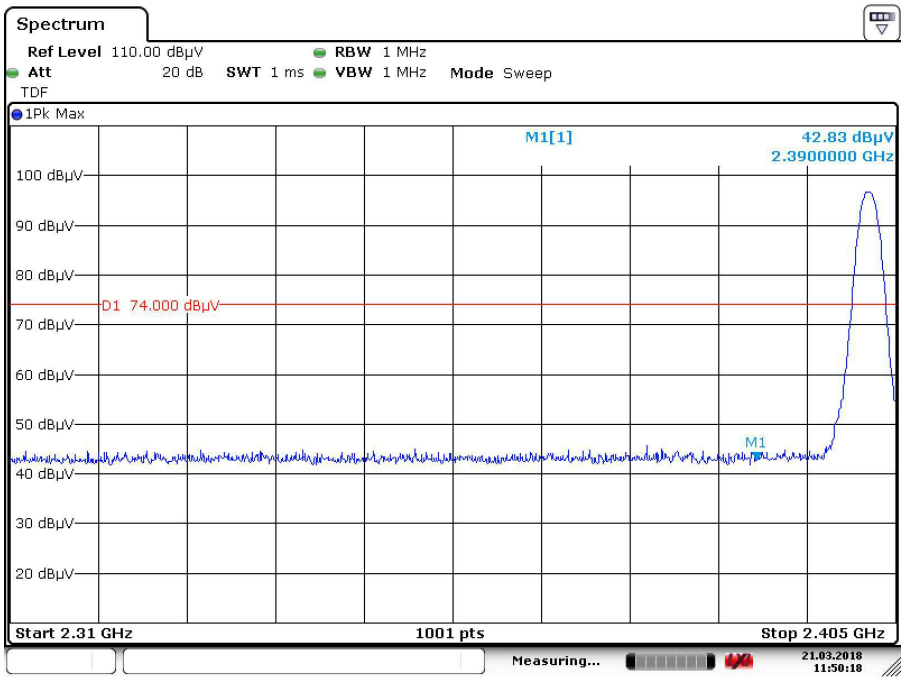

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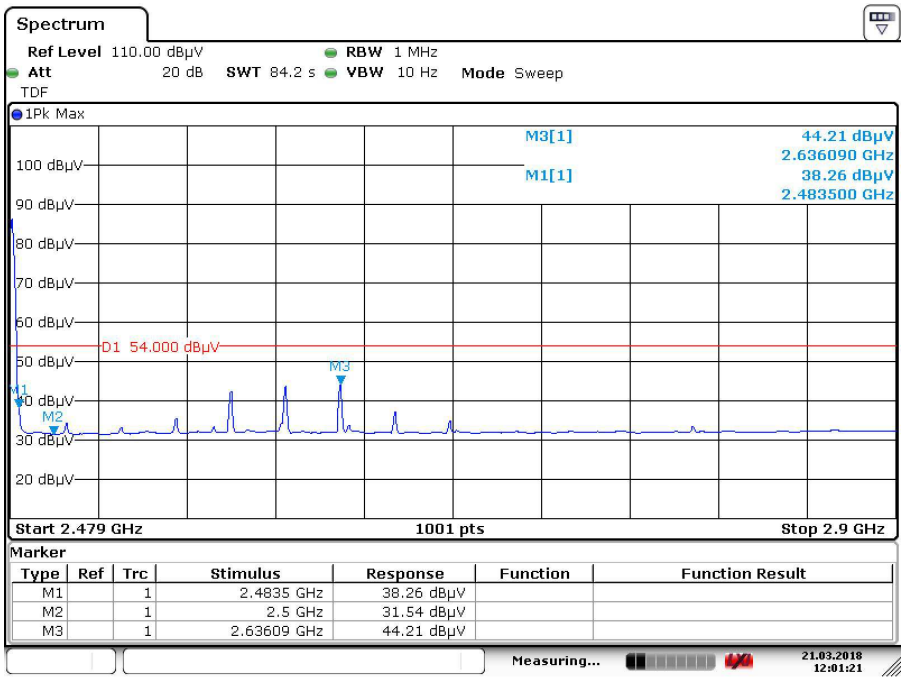
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge (8DPSK)

High Channel (Hor)



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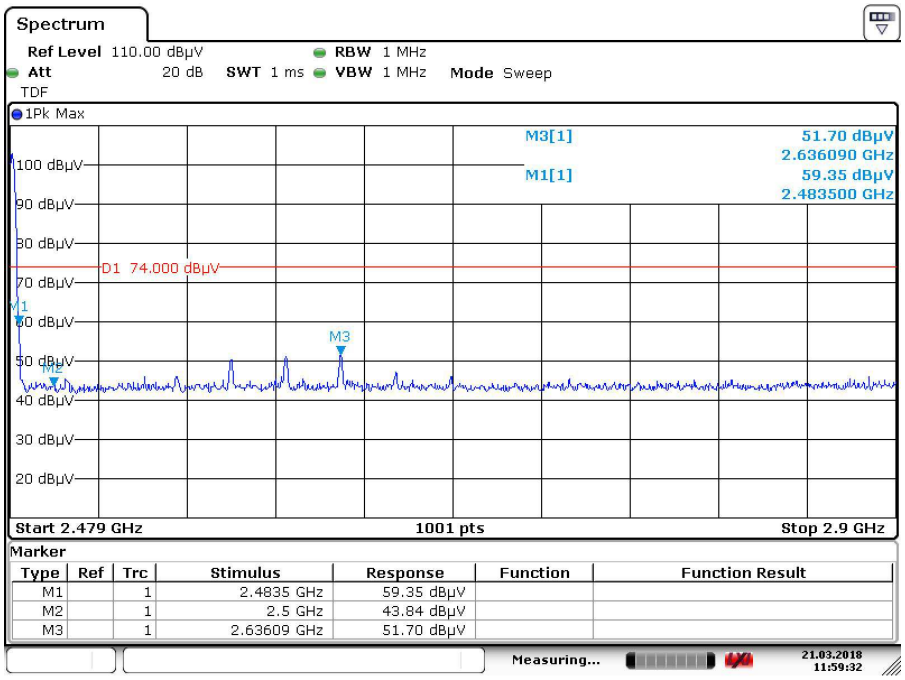

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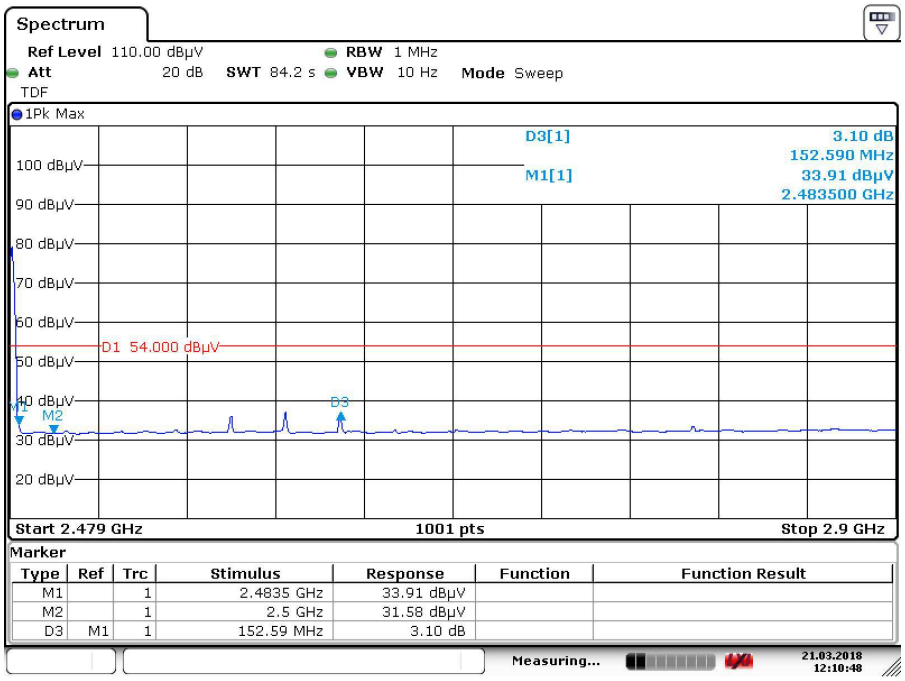
High Channel (Ver)



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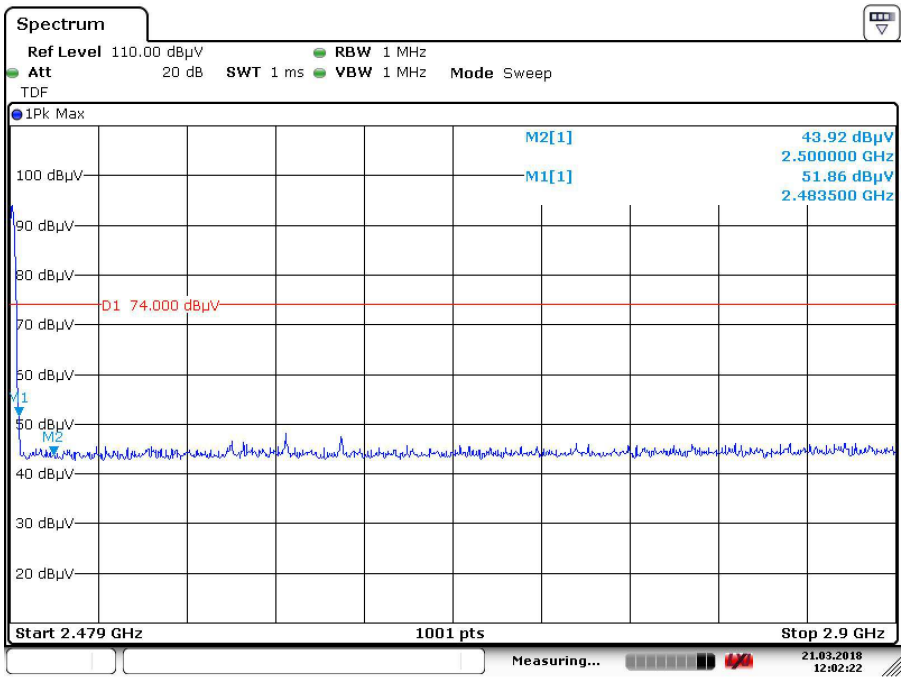

Date: 21.MAR.2018 12:02:22

Spurious Emissions, Band Edge, 2.35-2.5G

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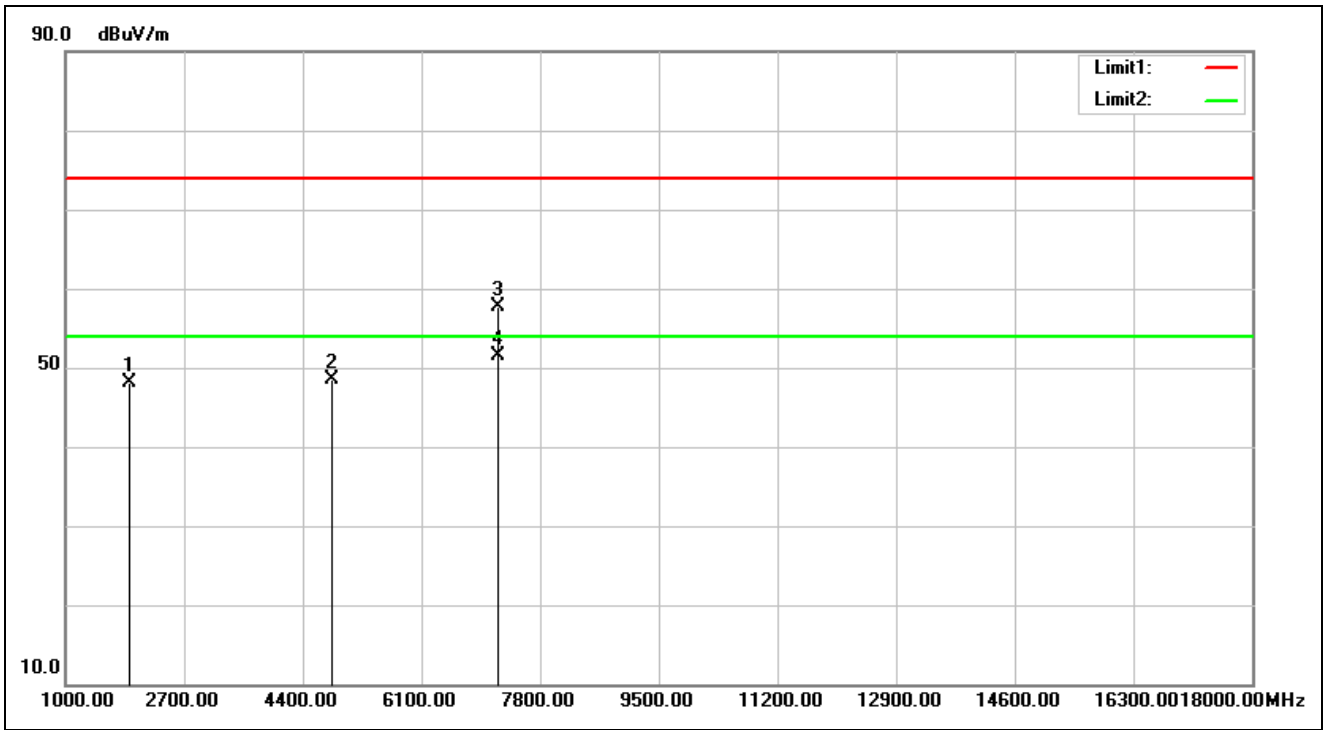

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:19:44**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2402-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	-7.68	55.69	48.01	74.00	-25.99	peak	100	86	
2	4804.000	-2.72	51.18	48.46	74.00	-25.54	peak			
3	7206.000	5.25	52.39	57.64	74.00	-16.36	peak	100	70	
4	7206.000	5.25	46.35	51.60	54.00	-2.40	AVG	100	70	

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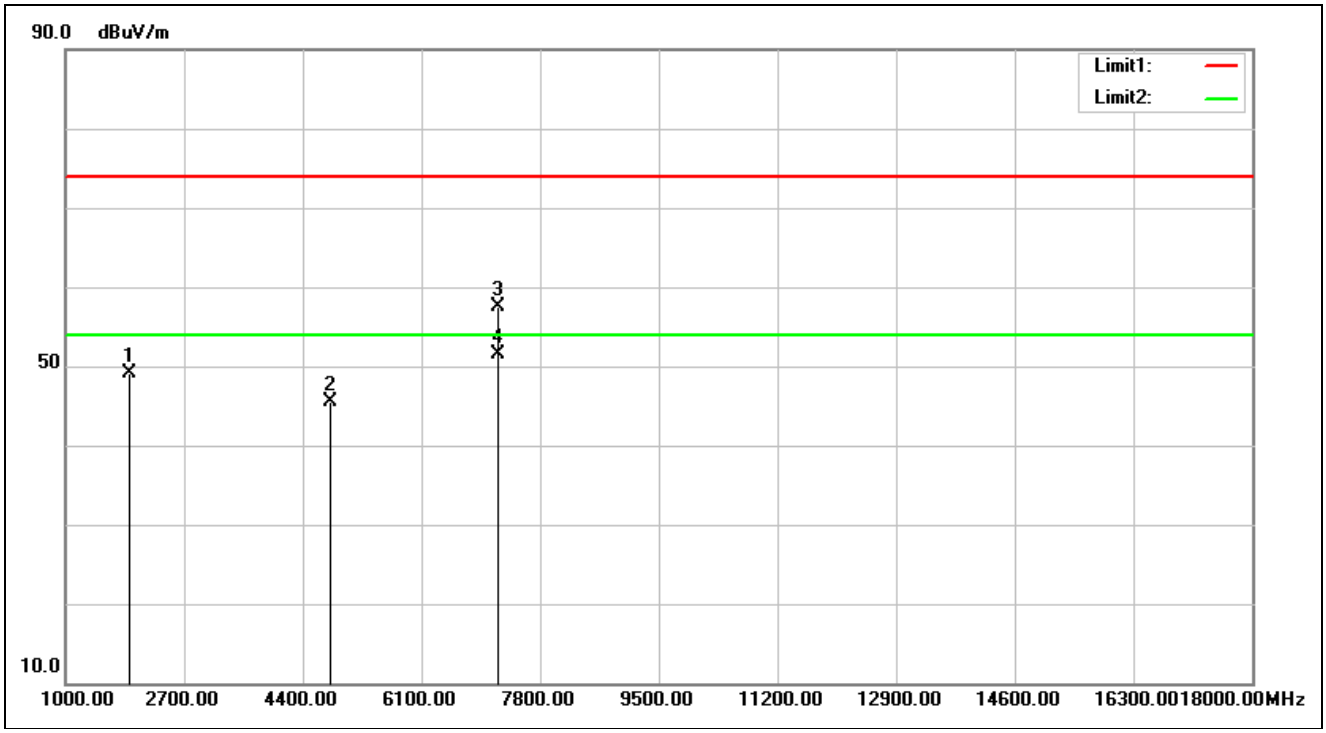

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:20:47**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2402-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	-7.68	56.70	49.02	74.00	-24.98	peak	100	321	
2	4804.000	-2.72	48.13	45.41	74.00	-28.59	peak			
3	7206.000	5.25	52.22	57.47	74.00	-16.53	peak	100	83	
4	7206.000	5.25	46.25	51.50	54.00	-2.50	AVG	100	83	

Spurious Emissions, TX Mode, 1-18G

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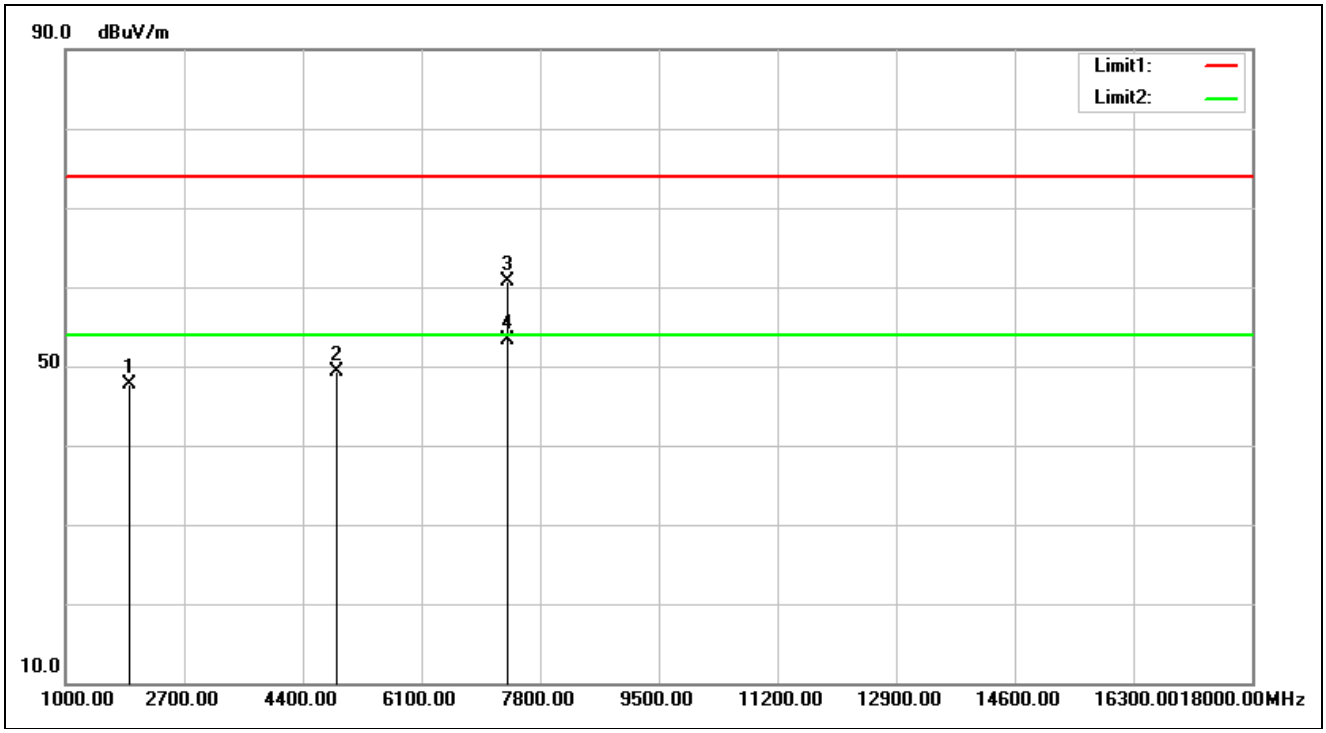

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:13:23**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	-7.68	55.33	47.65	74.00	-26.35	peak	100	85	
2	4882.000	-2.50	51.81	49.31	74.00	-24.69	peak	100	196	
3	7323.000	5.54	55.15	60.69	74.00	-13.31	peak	115	359	
4	7323.000	5.54	47.73	53.27	54.00	-0.73	AVG	115	359	

Spurious Emissions, TX Mode, 1-18G

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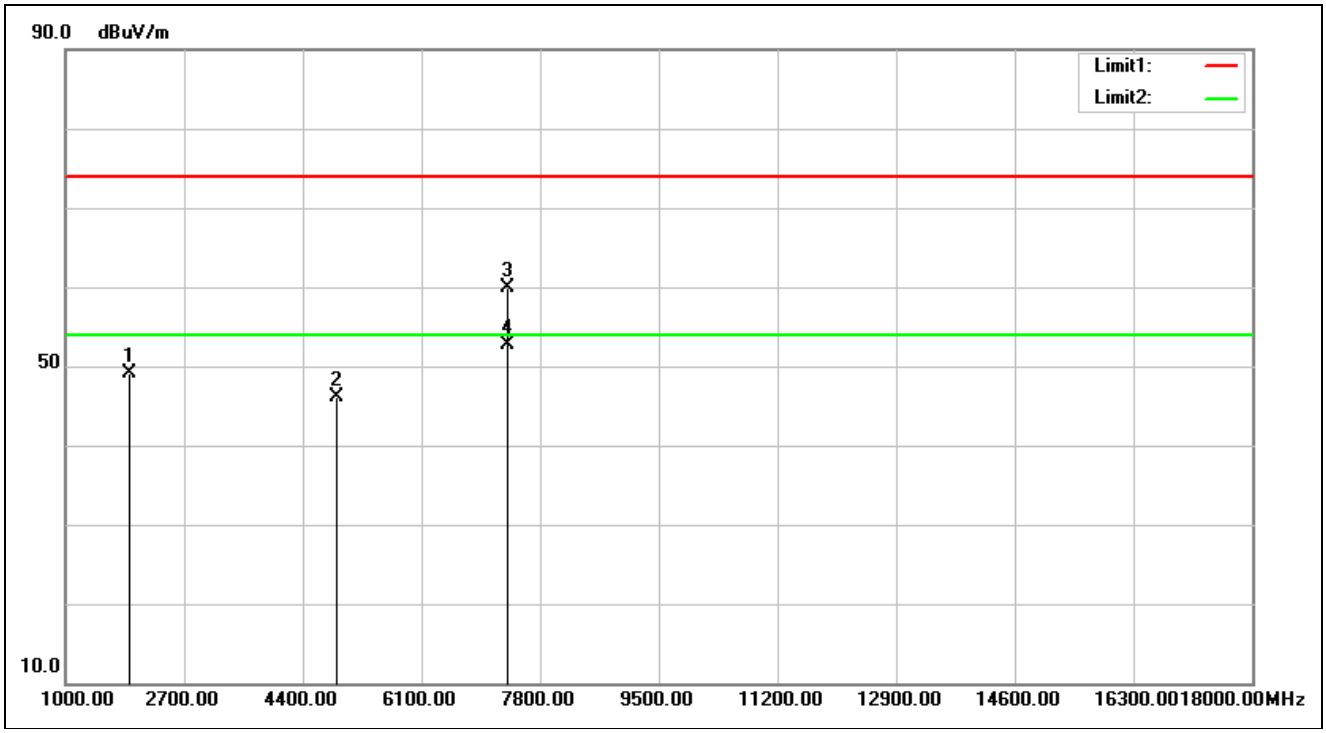

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:14:25**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	-7.68	56.69	49.01	74.00	-24.99	peak	100	320	
2	4882.000	-2.50	48.59	46.09	74.00	-27.91	peak			
3	7323.000	5.54	54.31	59.85	74.00	-14.15	peak	100	167	
4	7323.000	5.54	47.11	52.65	54.00	-1.35	AVG	100	167	

Spurious Emissions, TX Mode, 1-18G

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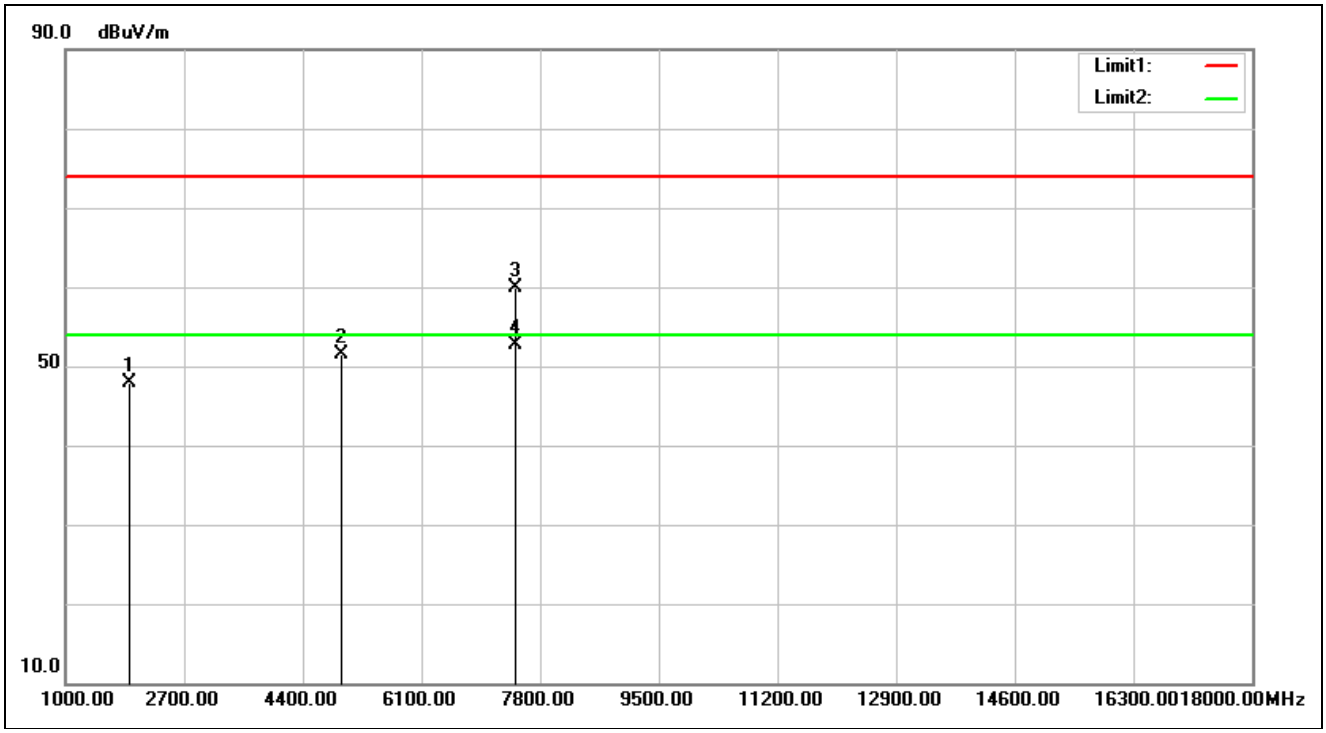
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:07:02**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2480-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	-7.68	55.60	47.92	74.00	-26.08	peak	100	154	
2	4960.000	-2.28	53.69	51.41	74.00	-22.59	peak	100	216	
3	7440.000	5.84	54.00	59.84	74.00	-14.16	peak	100	359	
4	7440.000	5.84	46.83	52.67	54.00	-1.33	AVG	100	359	

Spurious Emissions, TX Mode, 1-18G

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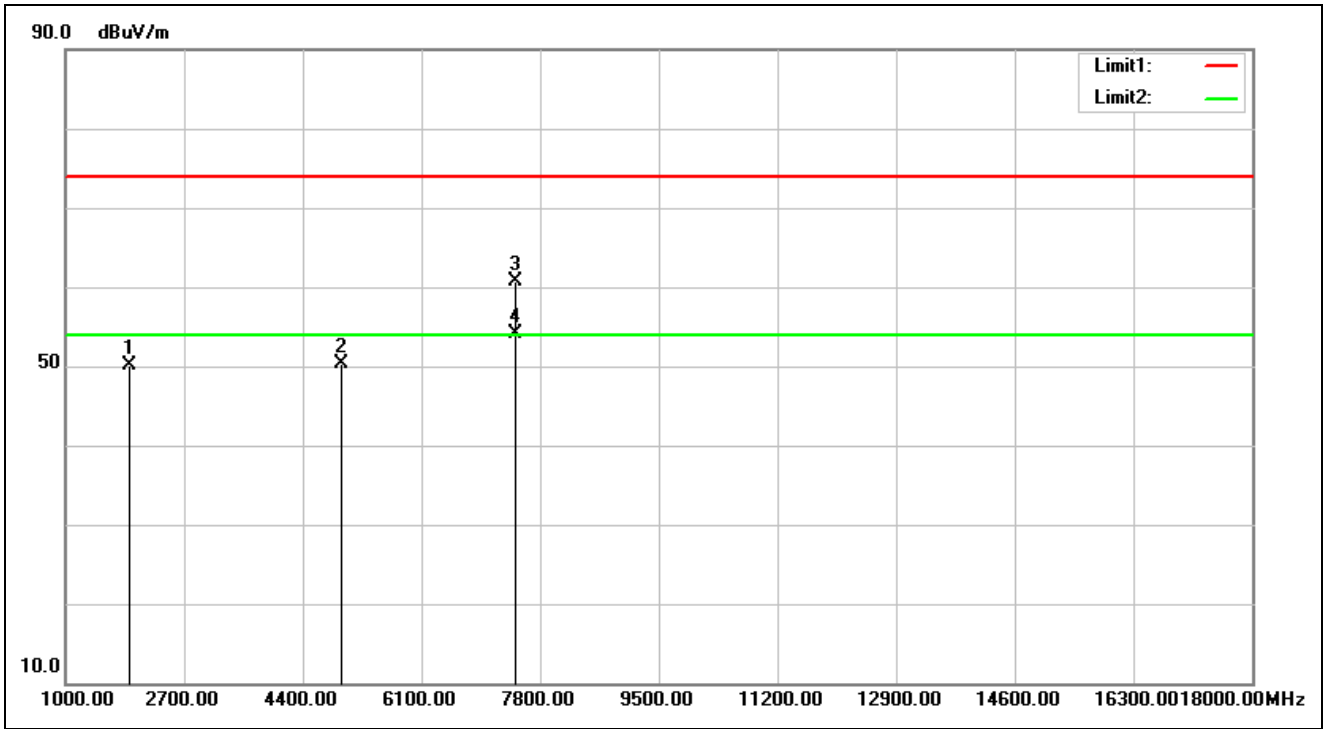

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:08:05**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2480-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	-7.68	57.72	50.04	74.00	-23.96	peak	100	308	
2	4960.000	-2.28	52.62	50.34	74.00	-23.66	peak	100	158	
3	7440.000	5.84	54.80	60.64	74.00	-13.36	peak	121	208	
4	7440.000	5.84	48.23	54.07	54.00	0.07	AVG	121	208	See below

Remark: Based on the BT hopping rate 1600/s ,the transmission time would be 6/1600=3.75ms

3.75ms*15=56.25ms > 100ms ,thus,2 time appear on 100ms. Duty Cycle Factor on DH5 : 20 log(3.75x5/6x2/100)= - 24 dB.

Therefore,the Average result of 7440MHz would be 60.64 – 24 = 36.64 dBuV/m

Spurious Emissions, TX Mode, 1-18G

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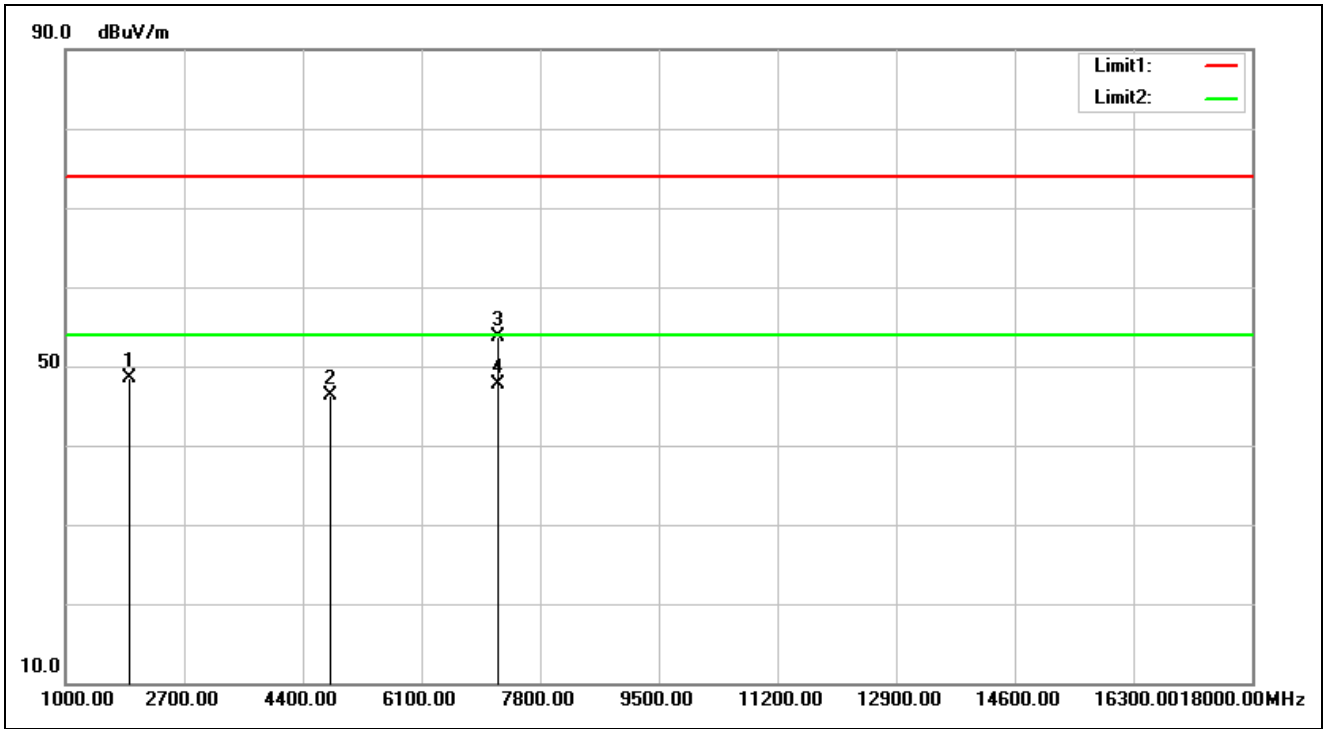

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:23:18**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2402-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	-7.68	56.16	48.48	74.00	-25.52	peak	100	156	
2	4804.000	-2.72	49.05	46.33	74.00	-27.67	peak			
3	7206.000	5.25	48.54	53.79	74.00	-20.21	peak	100	355	
4	7206.000	5.25	42.38	47.63	54.00	-6.37	AVG	100	355	

Spurious Emissions, TX Mode, 1-18G

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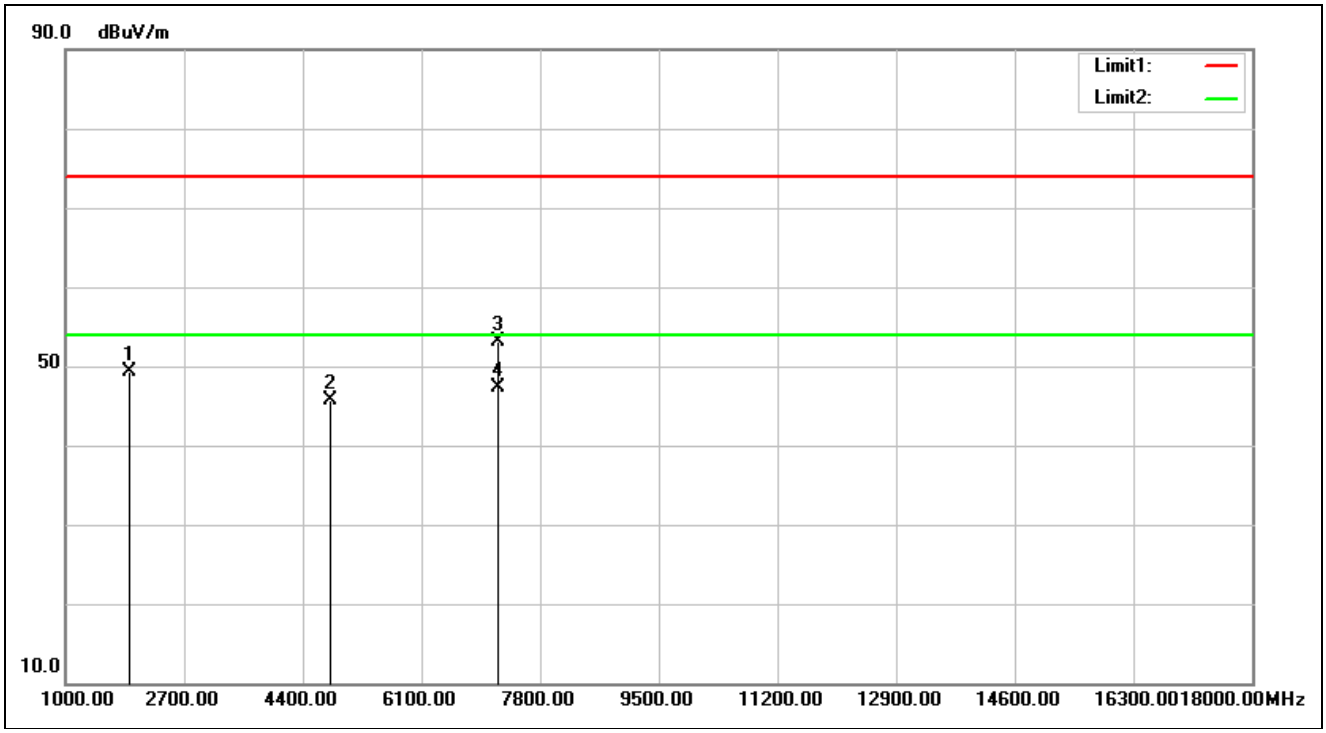

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:24:21**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2402-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	-7.68	56.89	49.21	74.00	-24.79	peak	100	304	
2	4804.000	-2.72	48.35	45.63	74.00	-28.37	peak			
3	7206.000	5.25	47.95	53.20	74.00	-20.80	peak	100	38	
4	7206.000	5.25	42.14	47.39	54.00	-6.61	AVG	100	38	

Spurious Emissions, TX Mode, 1-18G

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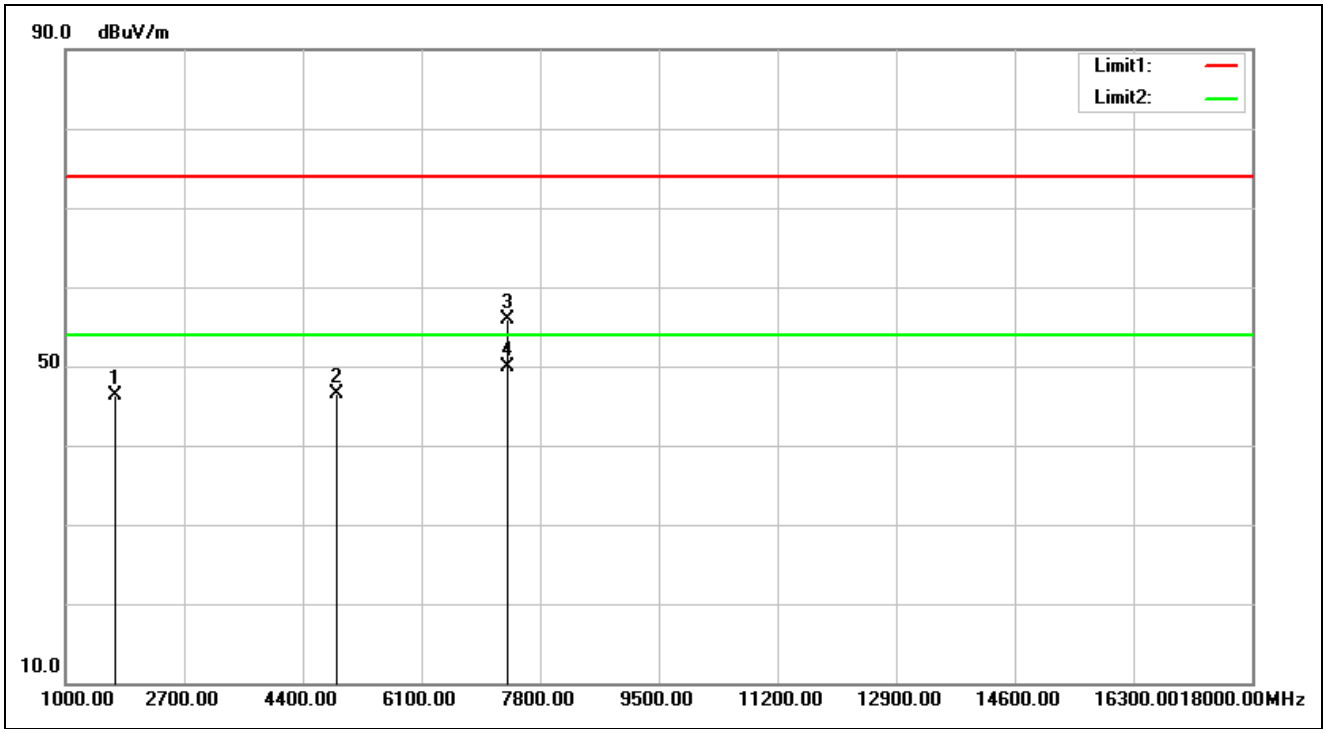

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:26:35**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (◦)	Remark
1	1714.000	-9.06	55.41	46.35	74.00	-27.65	peak	100	175	
2	4882.000	-2.50	49.07	46.57	74.00	-27.43	peak			
3	7323.000	5.54	50.40	55.94	74.00	-18.06	peak	100	67	
4	7323.000	5.54	44.46	50.00	54.00	-4.00	AVG	100	67	

Spurious Emissions, TX Mode, 1-18G

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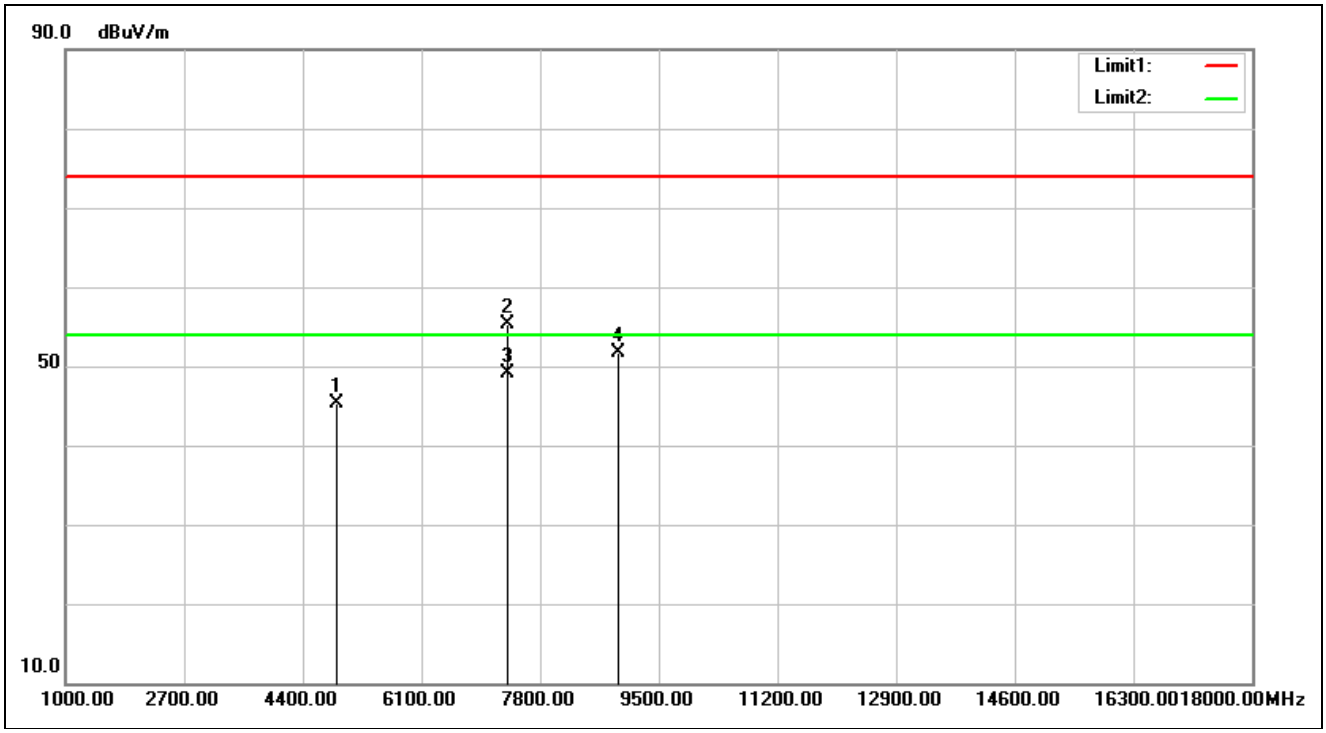

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:27:37**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (◦)	Remark
1	4882.000	-2.50	47.80	45.30	74.00	-28.70	peak			
2	7323.000	5.54	49.74	55.28	74.00	-18.72	peak	100	30	
3	7323.000	5.54	43.57	49.11	54.00	-4.89	AVG	100	30	
4	8922.000	6.42	45.25	51.67	74.00	-22.33	peak	100	246	

Spurious Emissions, TX Mode, 1-18G

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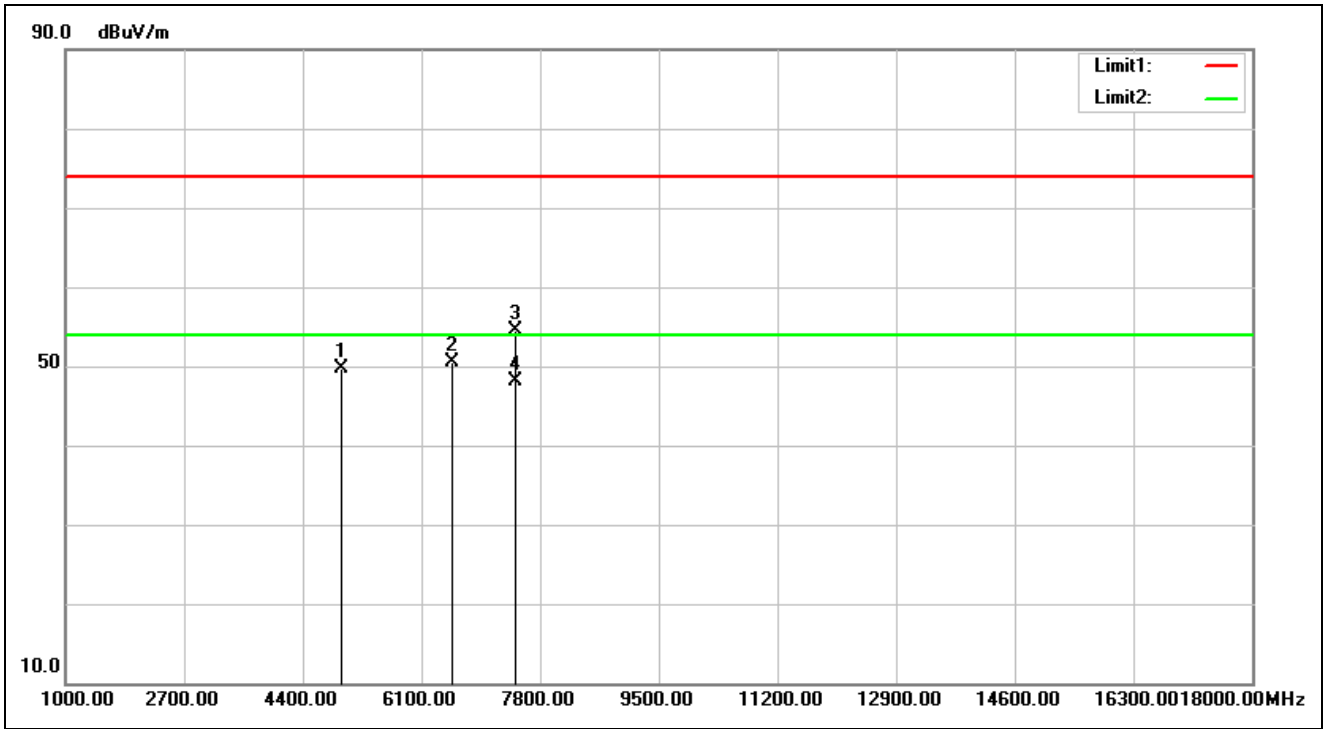

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:30:15**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2480-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (◦)	Remark
1	4960.000	-2.28	51.91	49.63	74.00	-24.37	peak			
2	6542.000	5.32	45.28	50.60	74.00	-23.40	peak	100	267	
3	7440.000	5.84	48.62	54.46	74.00	-19.54	peak	100	23	
4	7440.000	5.84	42.28	48.12	54.00	-5.88	AVG	100	23	

Spurious Emissions, TX Mode, 1-18G

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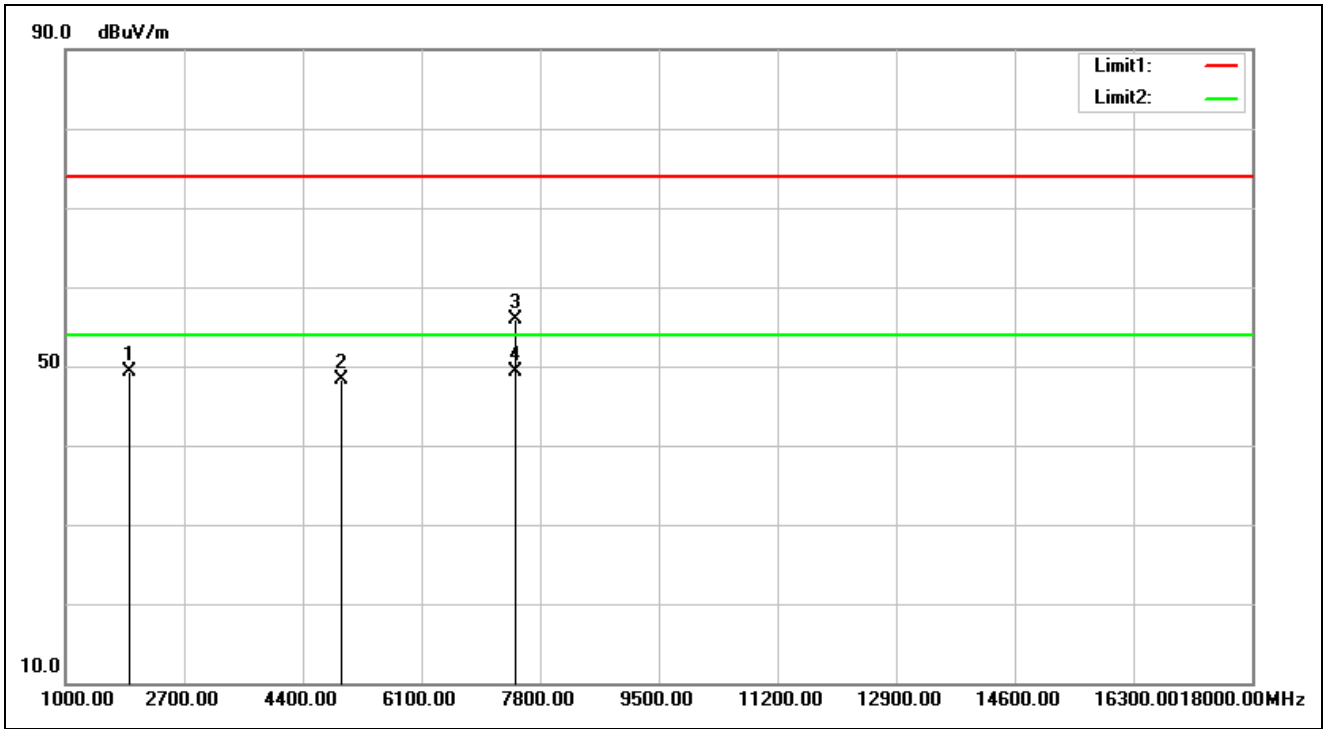

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:31:18**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2480-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	-7.68	56.89	49.21	74.00	-24.79	peak	100	315	
2	4960.000	-2.28	50.66	48.38	74.00	-25.62	peak			
3	7440.000	5.84	50.12	55.96	74.00	-18.04	peak	100	210	
4	7440.000	5.84	43.46	49.30	54.00	-4.70	AVG	100	210	

Spurious Emissions, TX Mode, 1-18G

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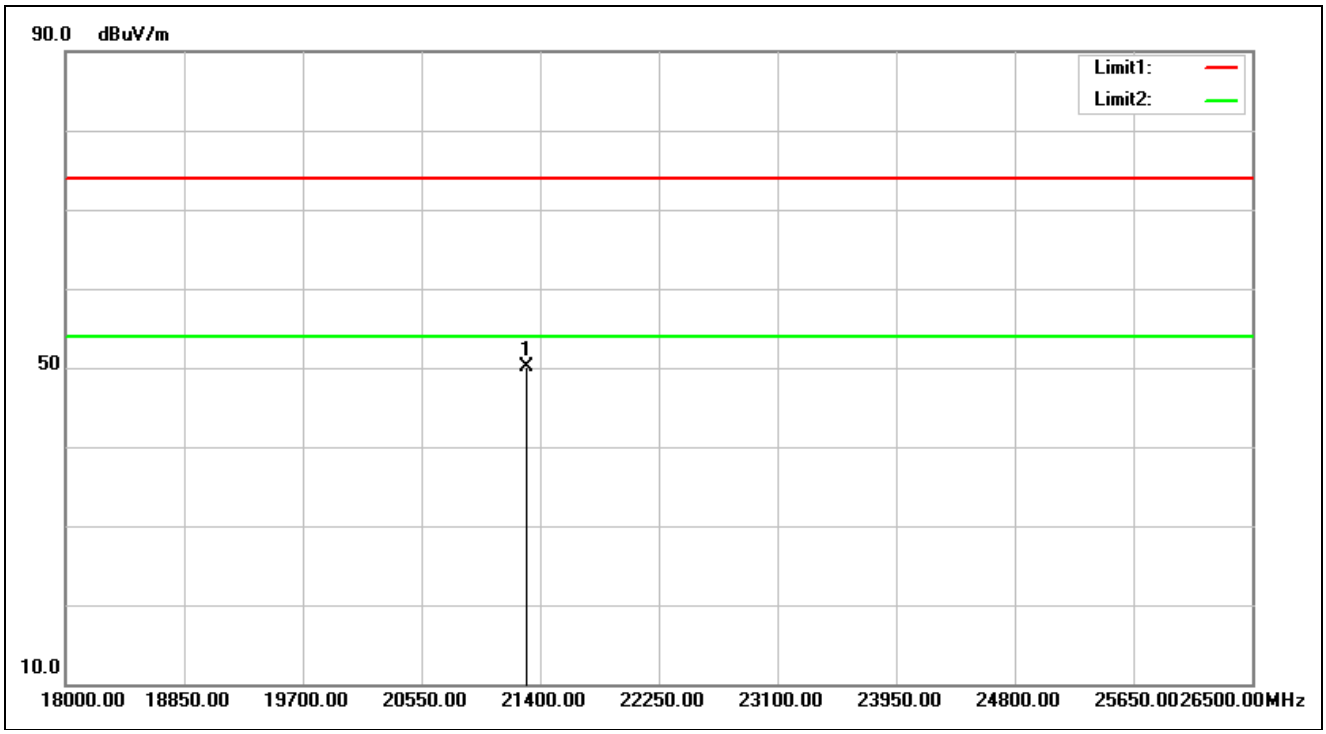

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:05:05**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2402-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	21298.000	32.71	17.40	50.11	74.00	-23.89	peak	100	360	

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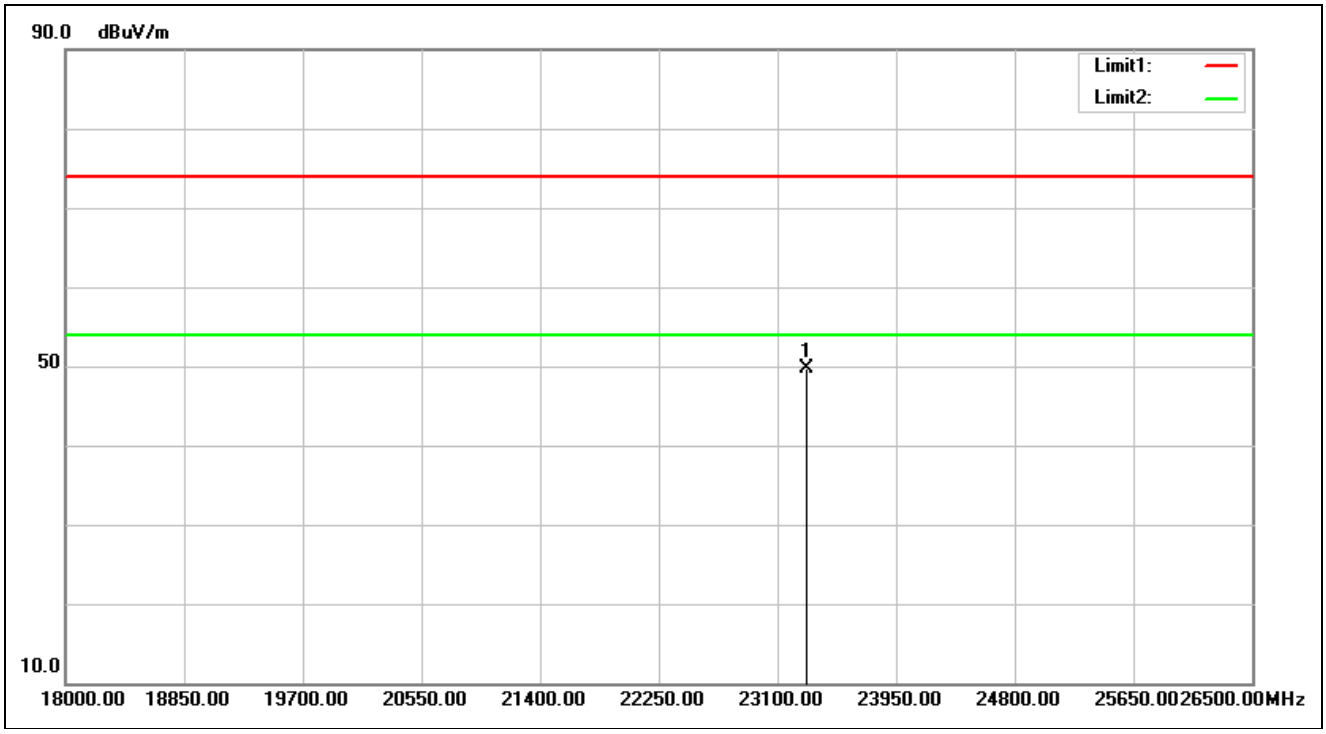

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:05:14**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2402-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	23304.000	33.08	16.65	49.73	74.00	-24.27	peak	100	113	

Spurious Emissions, TX Mode, 18-26G

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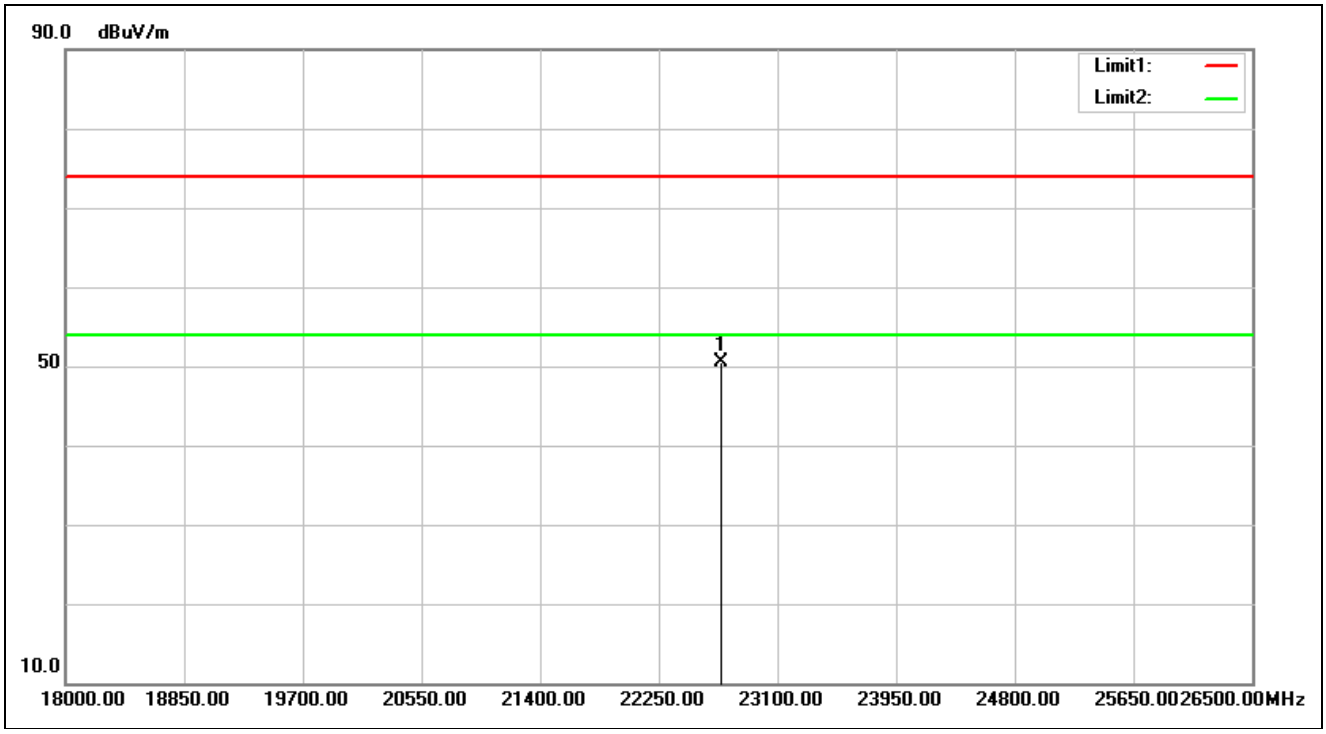

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:05:27**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	22692.000	32.70	17.71	50.41	74.00	-23.59	peak			

Spurious Emissions, TX Mode, 18-26G

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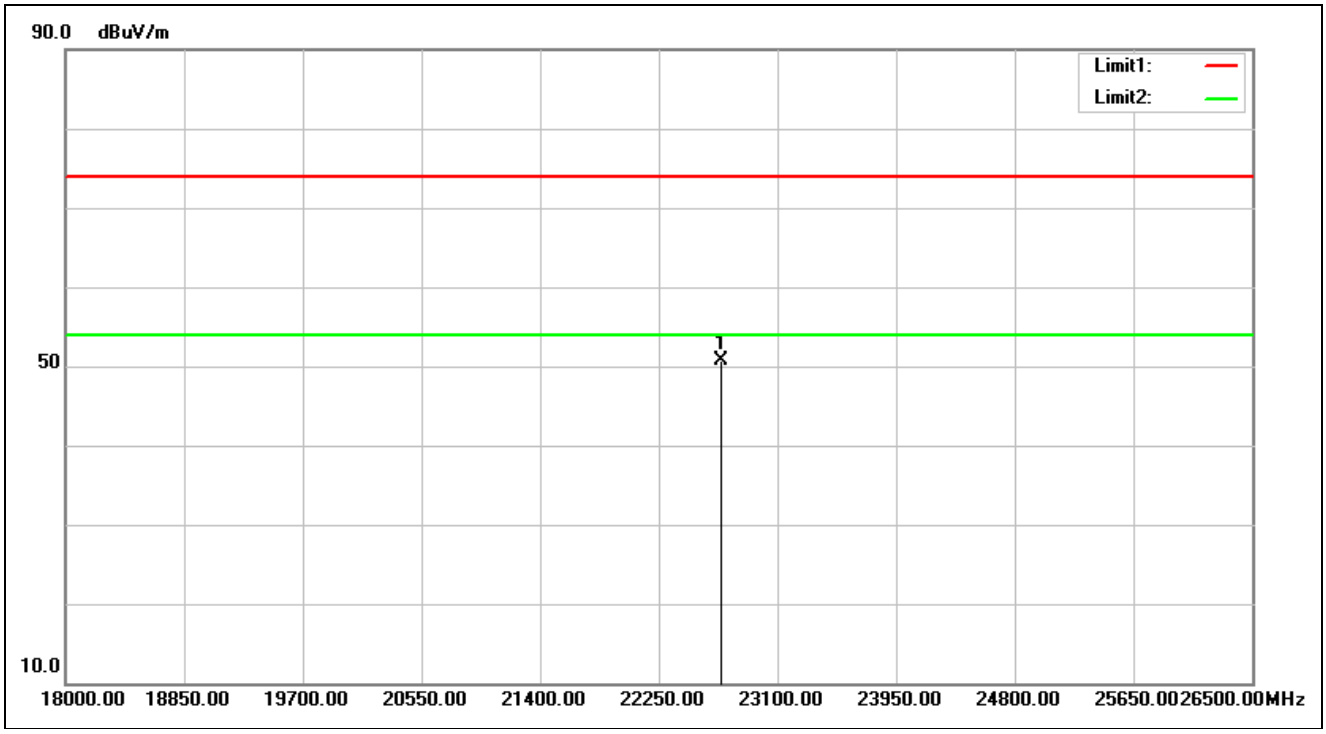

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:05:44**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	22700.500	32.71	17.96	50.67	74.00	-23.33	peak			

Spurious Emissions, TX Mode, 18-26G

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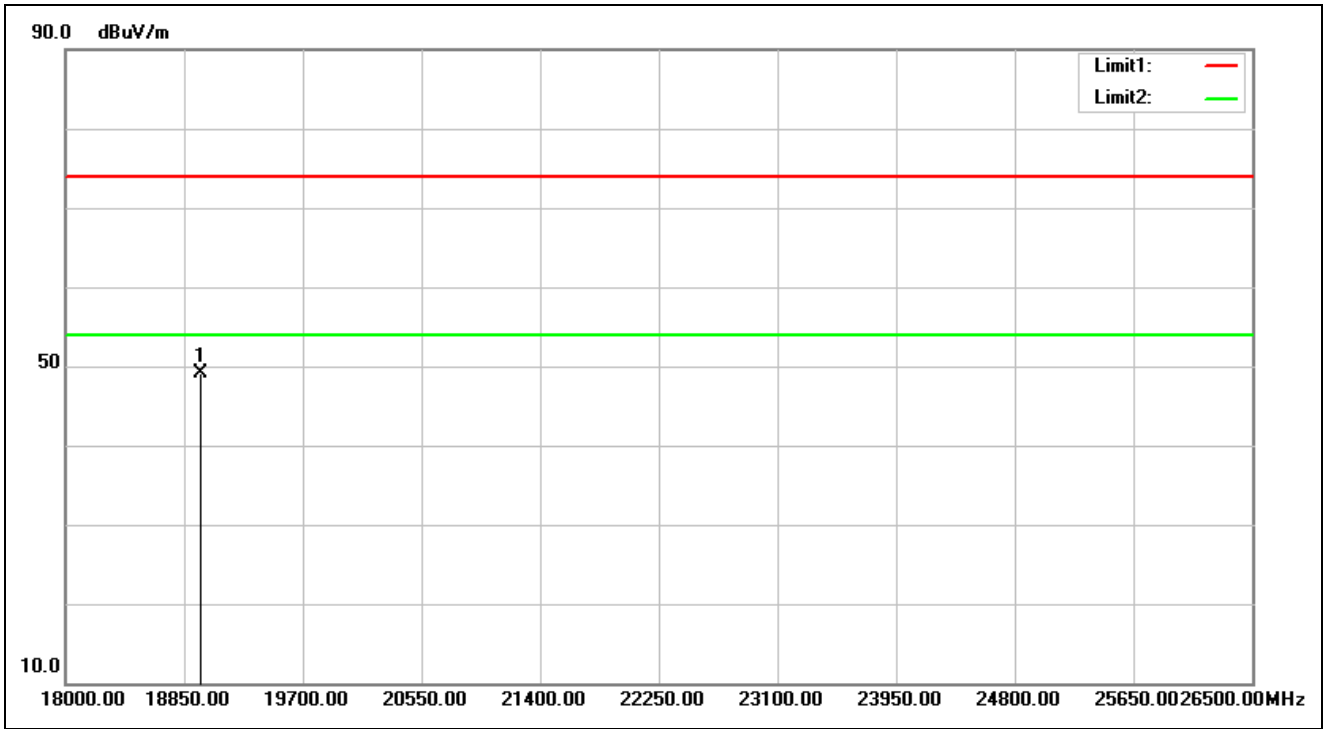

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:05:54**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2480-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (◦)	Remark
1	18969.000	30.04	19.12	49.16	74.00	-24.84	peak			

Spurious Emissions, TX Mode, 18-26G

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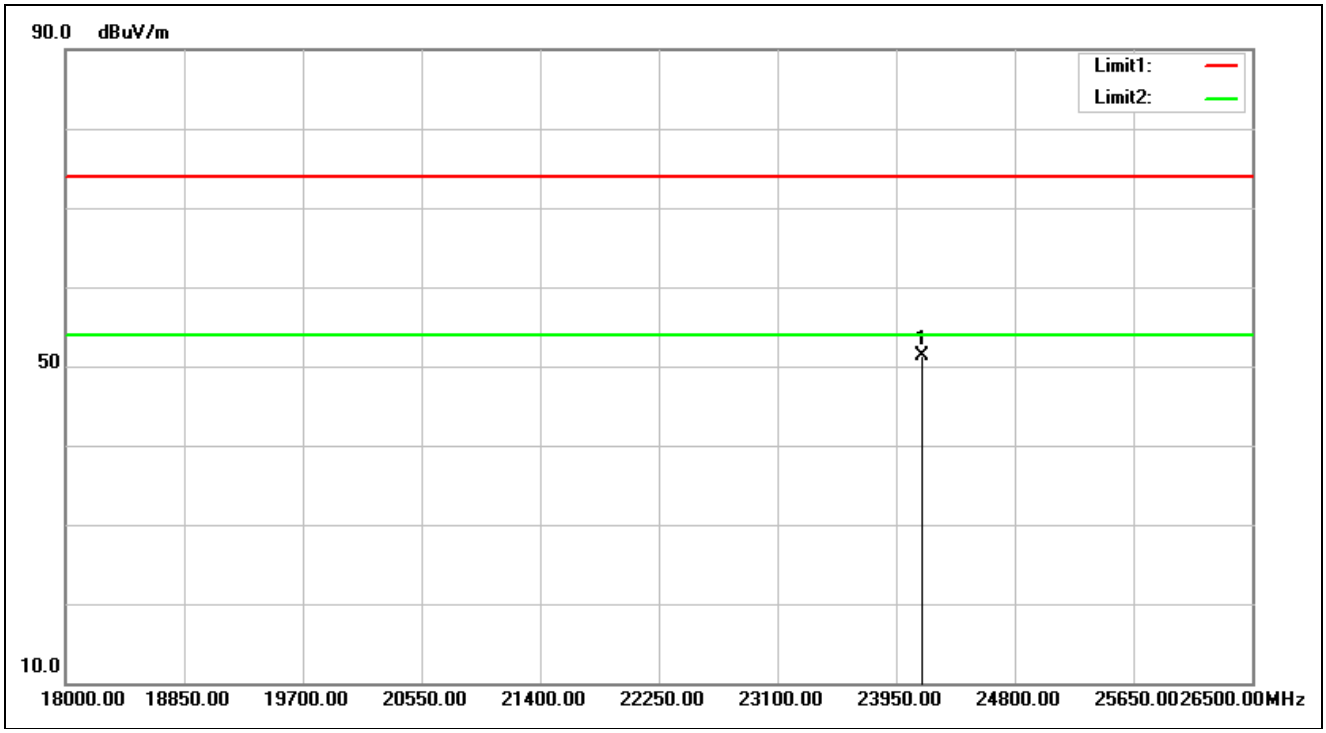

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:06:10**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2480-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	24137.000	33.02	18.31	51.33	74.00	-22.67	peak			

Spurious Emissions, TX Mode, 18-26G

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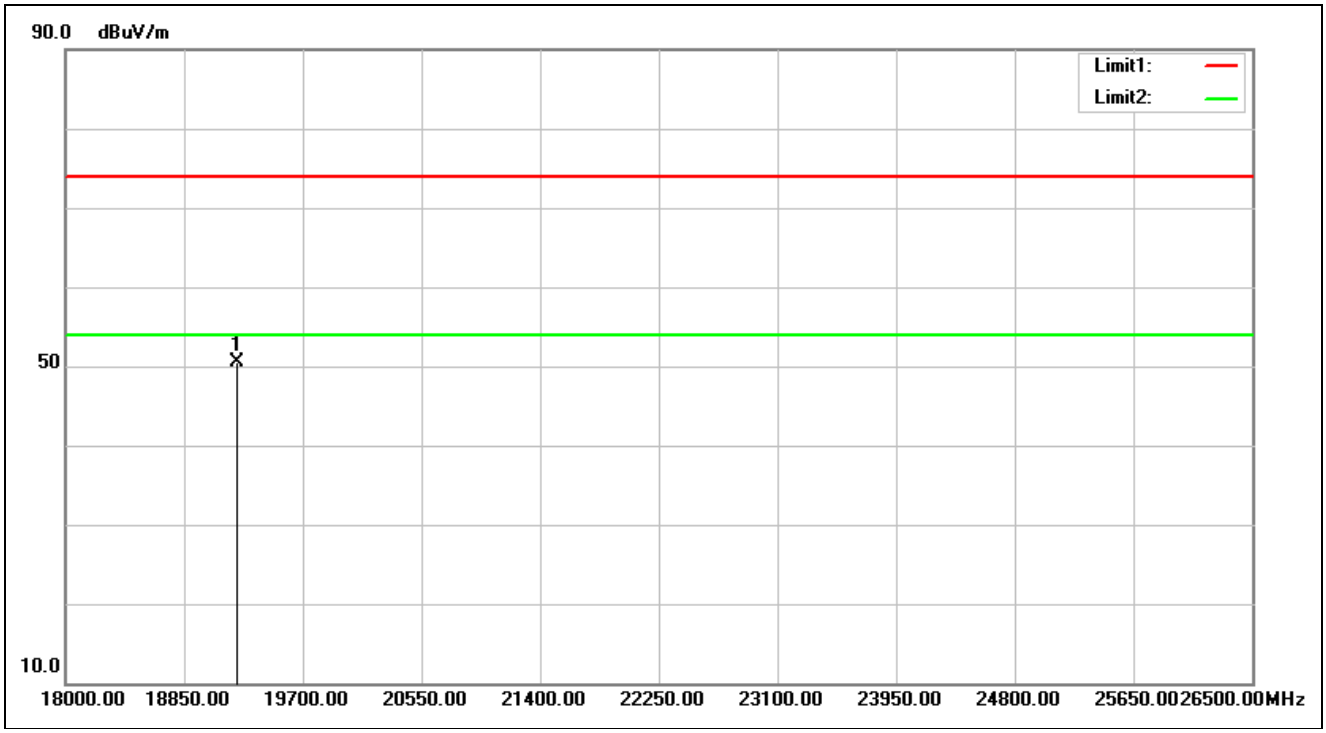

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:06:21**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2402-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	19232.500	30.30	20.16	50.46	74.00	-23.54	peak			

Spurious Emissions, TX Mode, 18-26G

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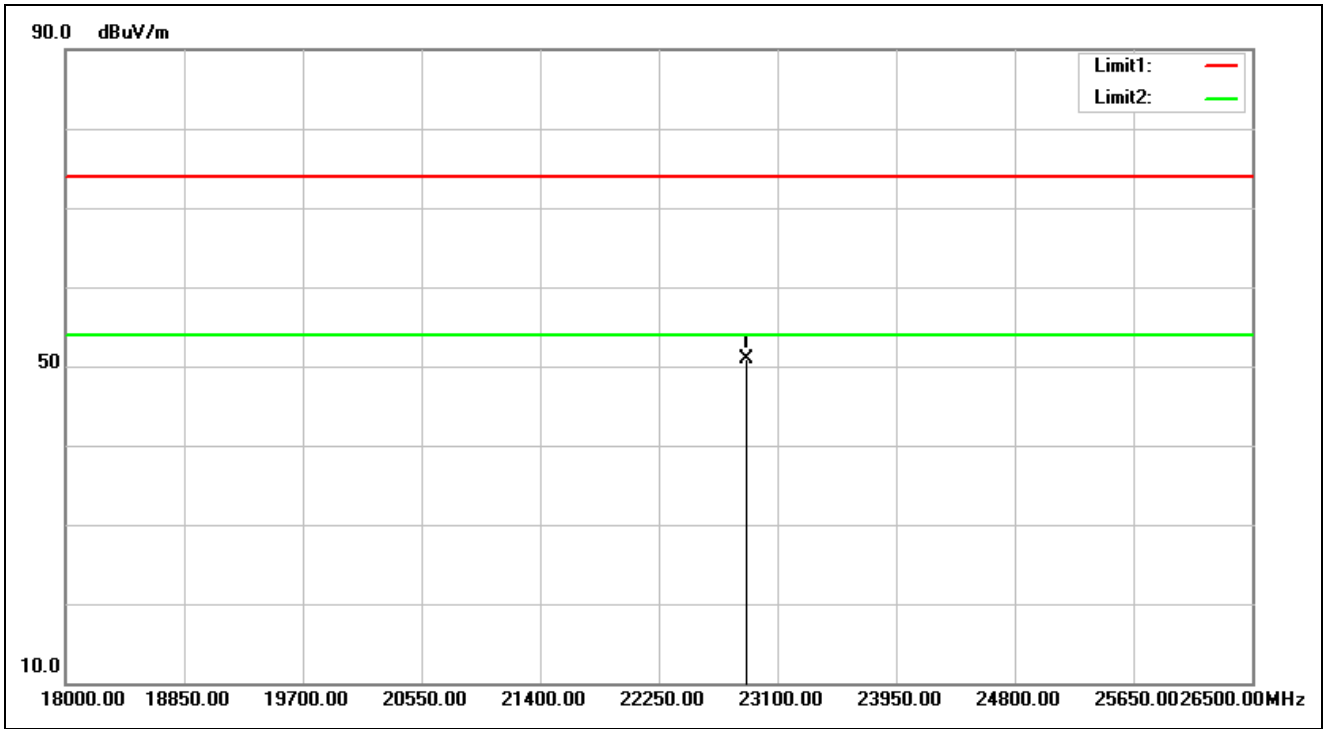

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:06:33**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2402-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	22879.000	32.76	18.24	51.00	74.00	-23.00	peak			

Spurious Emissions, TX Mode, 18-26G

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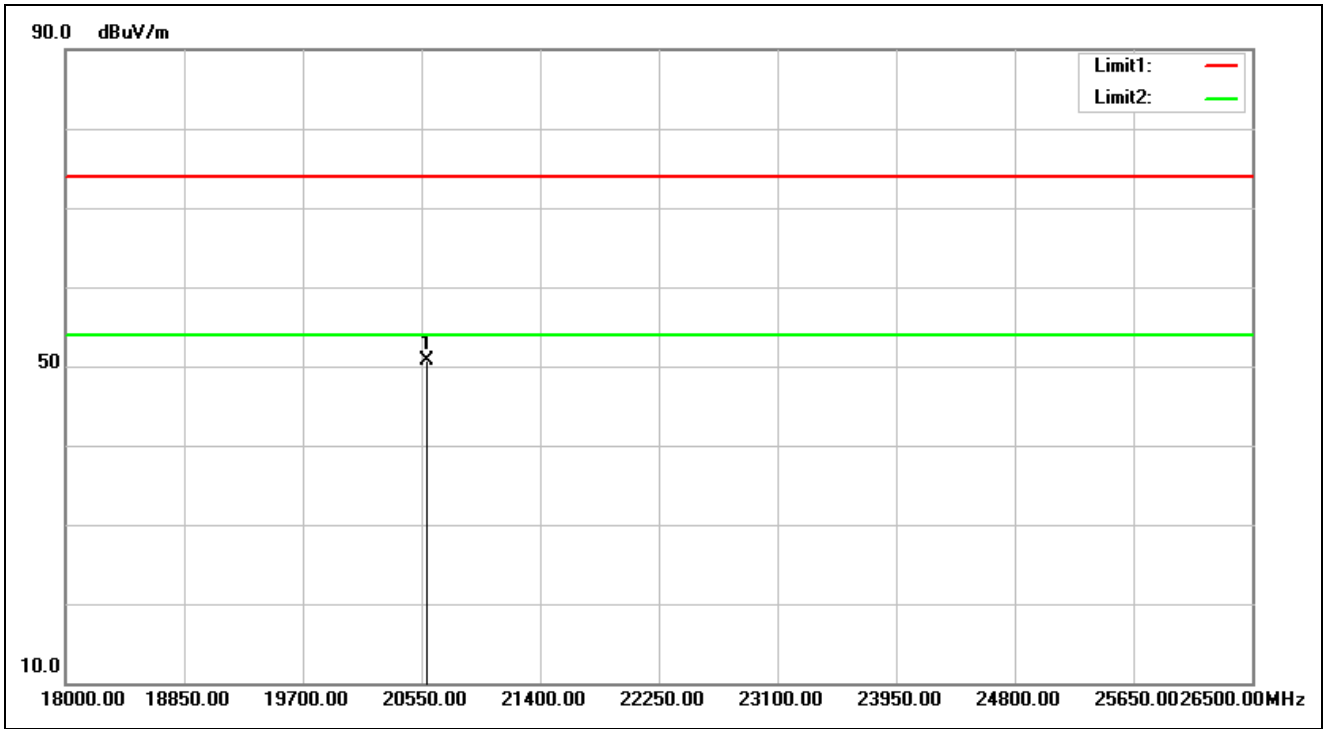

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:06:45**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	20592.500	31.60	19.13	50.73	74.00	-23.27	peak			

Spurious Emissions, TX Mode, 18-26G

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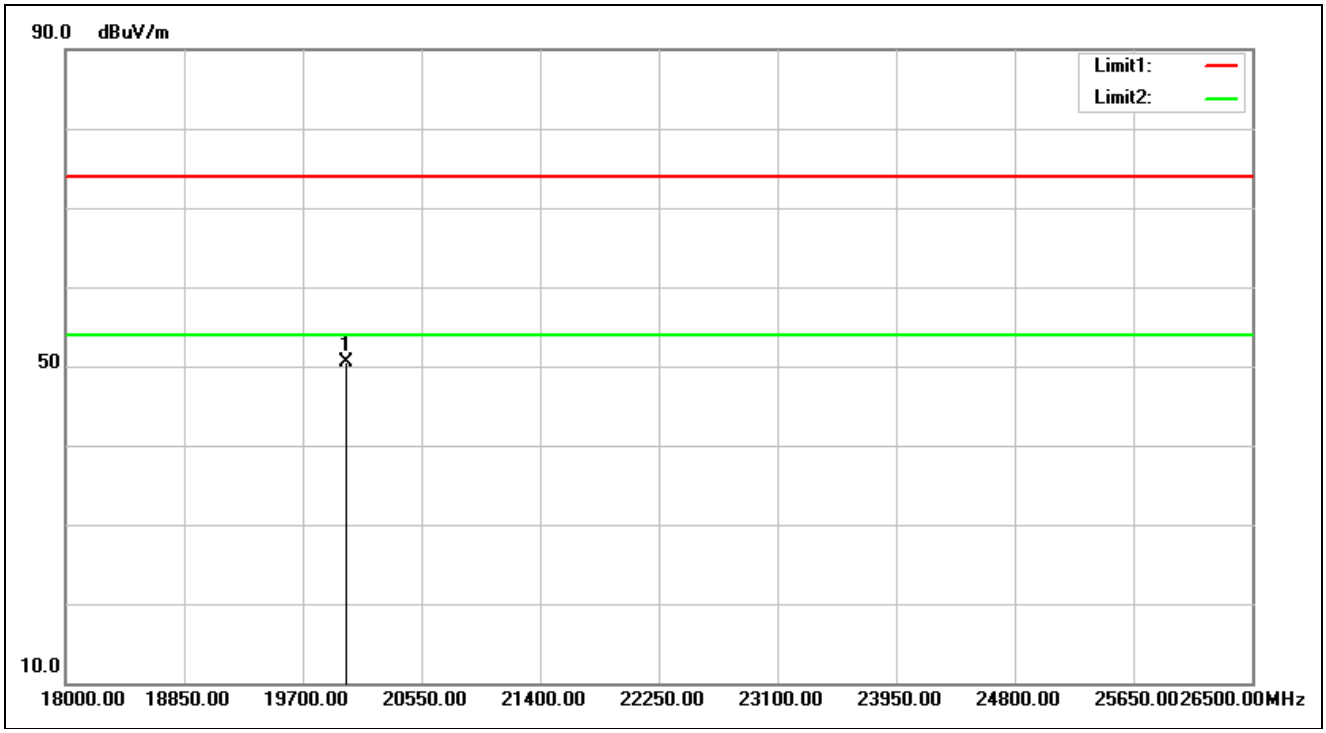

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:08:09**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	20006.000	31.21	19.26	50.47	74.00	-23.53	peak			

Spurious Emissions, TX Mode, 18-26G

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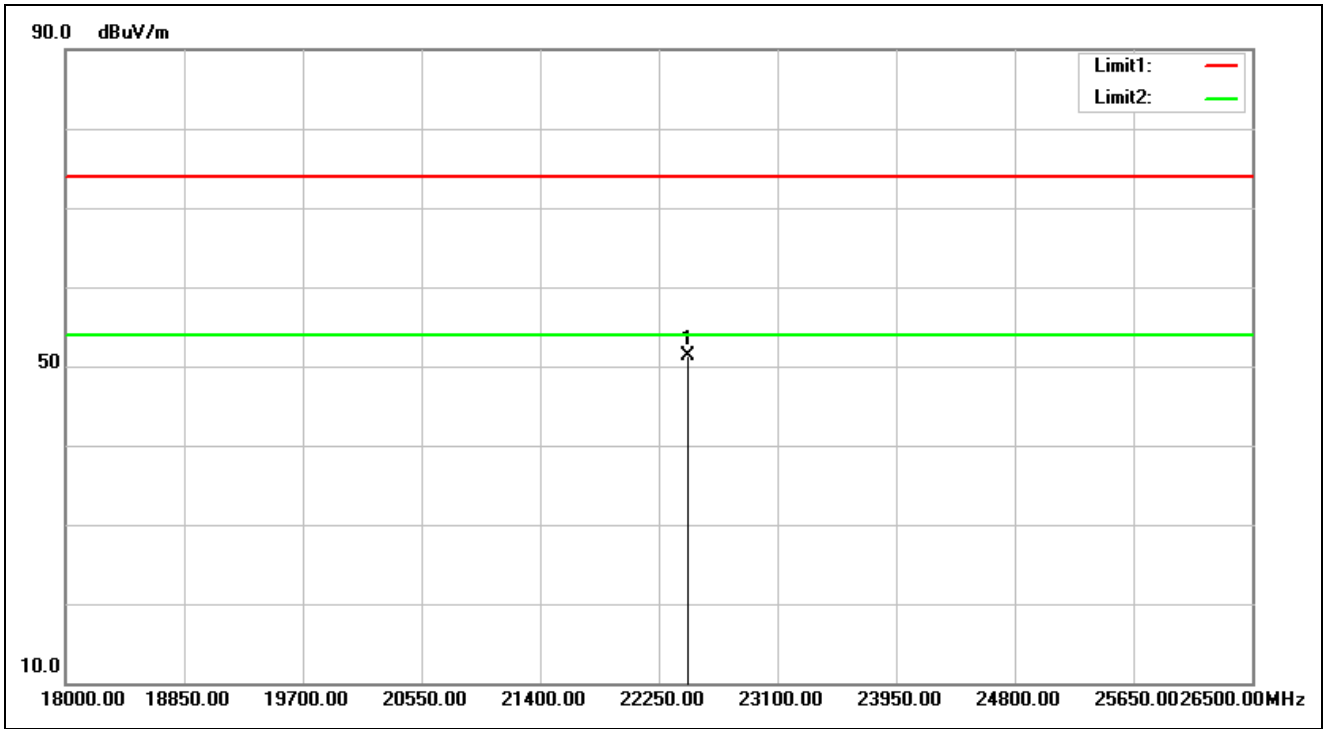

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:08:22**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2480-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	22462.500	32.64	18.74	51.38	74.00	-22.62	peak			

Spurious Emissions, TX Mode, 18-26G

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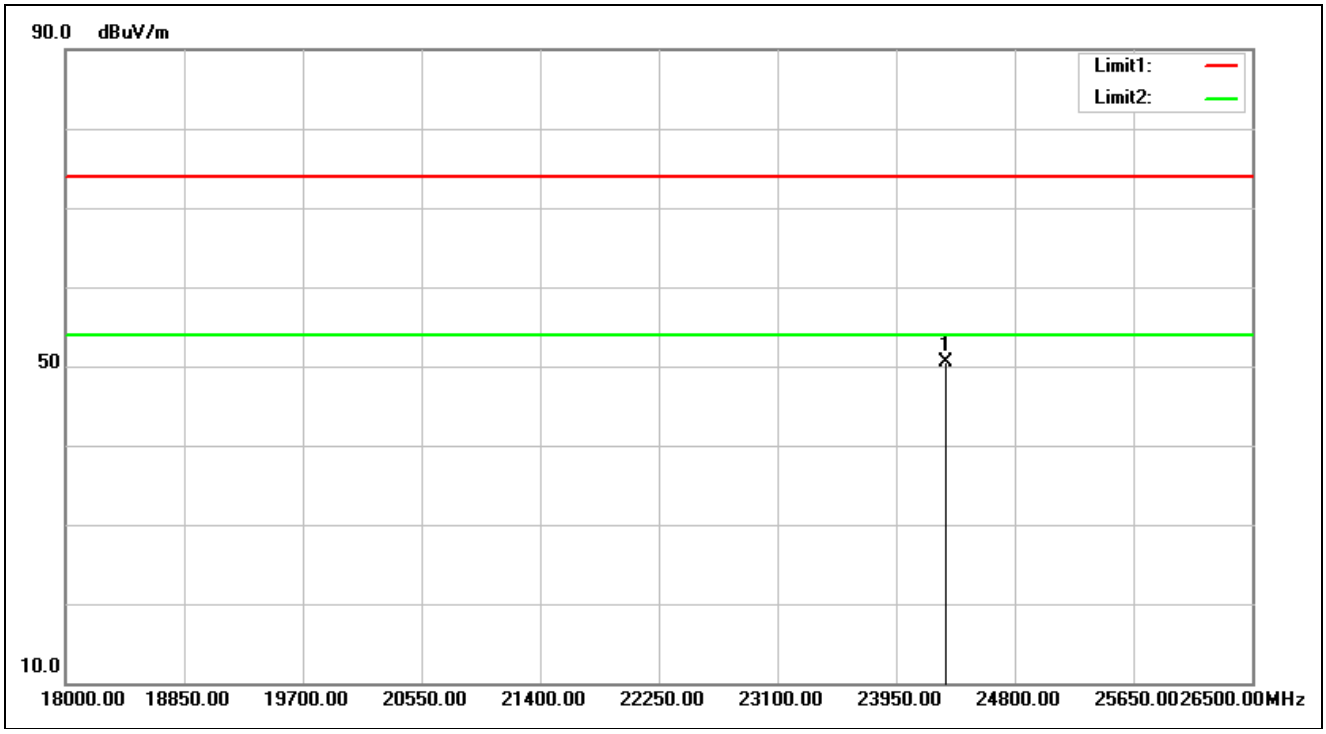

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:08:30**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**3DH5-2480-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	24307.000	33.10	17.32	50.42	74.00	-23.58	peak			

Spurious Emissions, TX Mode, 18-26G

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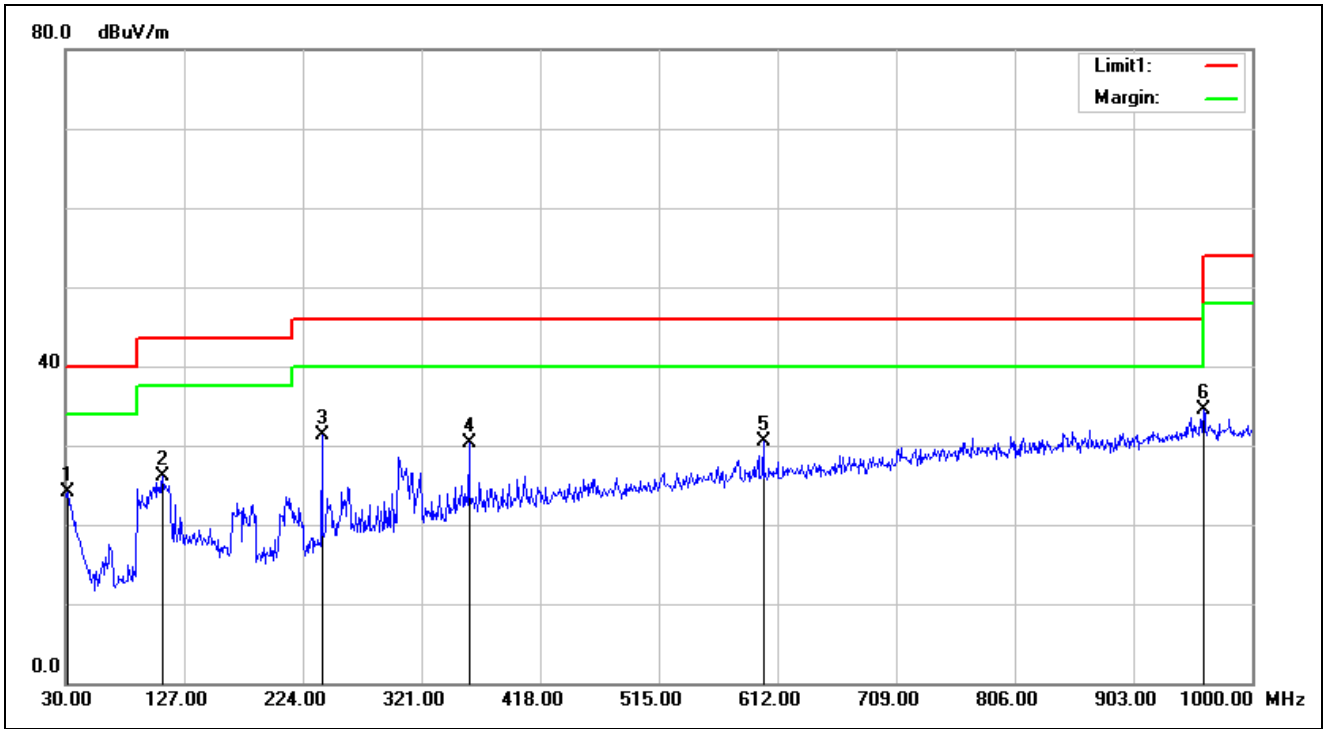

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:19:58**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-TX**		
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	-1.36	25.42	24.06	40.00	-15.94	QP	100	359	
2	109.5400	-8.28	34.44	26.16	43.50	-17.34	QP	100	102	
3	239.5200	-6.85	38.11	31.26	46.00	-14.74	QP	100	158	
4	359.8000	-3.16	33.43	30.27	46.00	-15.73	QP	100	35	
5	600.3600	0.08	30.43	30.51	46.00	-15.49	QP	100	121	
6	960.2300	5.54	29.01	34.55	54.00	-19.45	QP	100	206	

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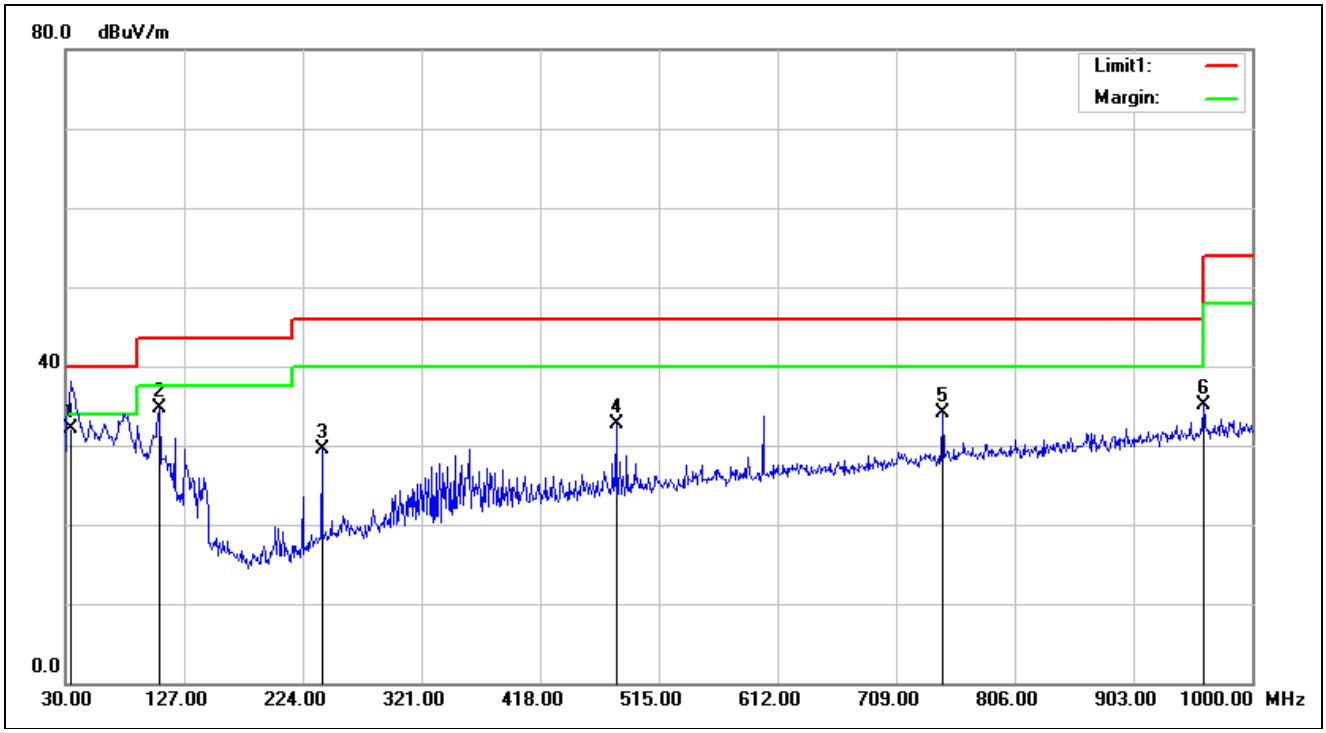

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:21:02**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	33.8800	-2.46	34.56	32.10	40.00	-7.90	QP	100	133	
2	106.6299	-8.64	43.36	34.72	43.50	-8.78	QP	100	133	
3	239.5200	-6.85	36.39	29.54	46.00	-16.46	QP	100	340	
4	480.0799	-1.47	34.24	32.77	46.00	-13.23	QP	100	150	
5	746.8300	2.30	31.87	34.17	46.00	-11.83	QP	100	69	
6	960.2300	5.54	29.47	35.01	54.00	-18.99	QP	100	329	

Spurious Emissions, TX Mode, 30M-1G

Spurious Emissions, TX Mode, 9k-30M

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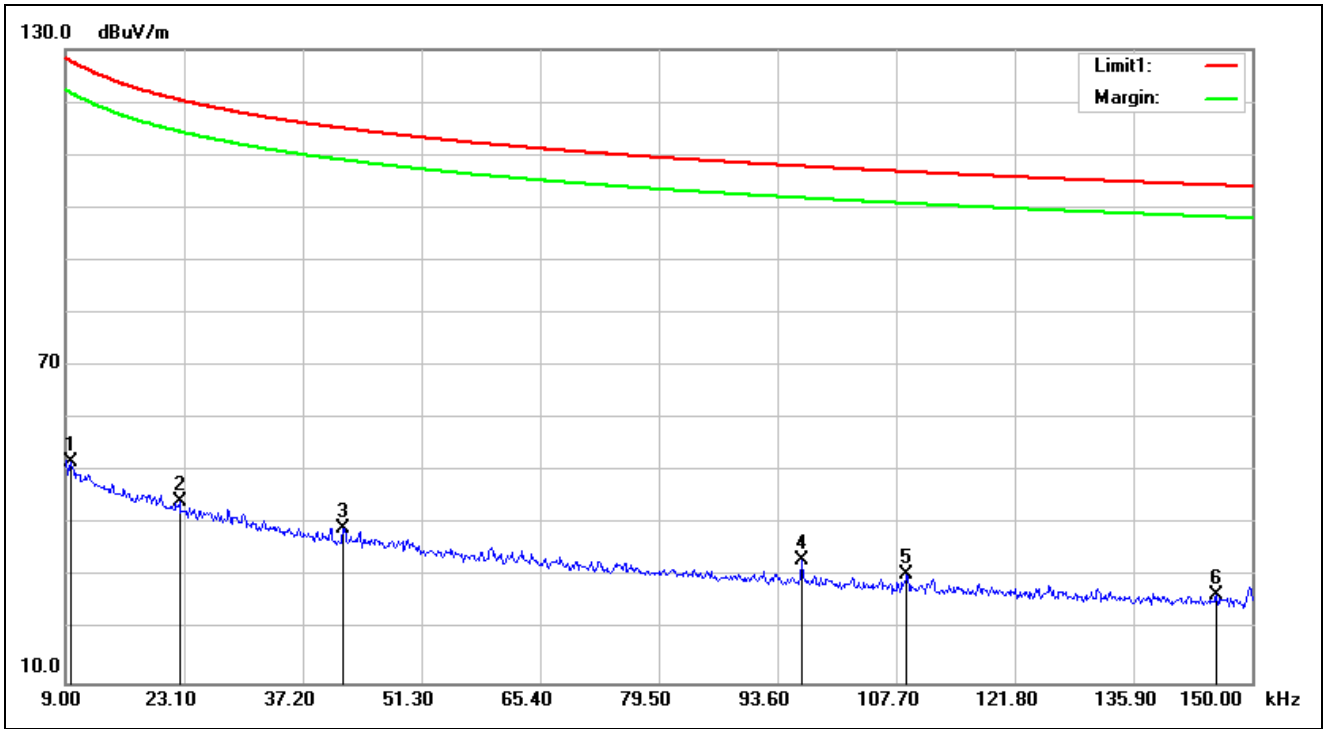

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC2.8_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:28:36**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0095	19.76	32.10	51.86	127.84	-75.98	QP	100	328	
2	0.0225	20.06	24.16	44.22	120.40	-76.18	QP	100	48	
3	0.0419	19.71	19.69	39.40	115.03	-75.63	QP	100	120	
4	0.0964	19.15	14.13	33.28	107.83	-74.55	QP	100	279	
5	0.1089	19.12	11.44	30.56	106.78	-76.22	QP	100	64	
6	0.1457	19.08	7.48	26.56	104.27	-77.71	QP	100	0	

Spurious Emissions, TX Mode, 30M-1G

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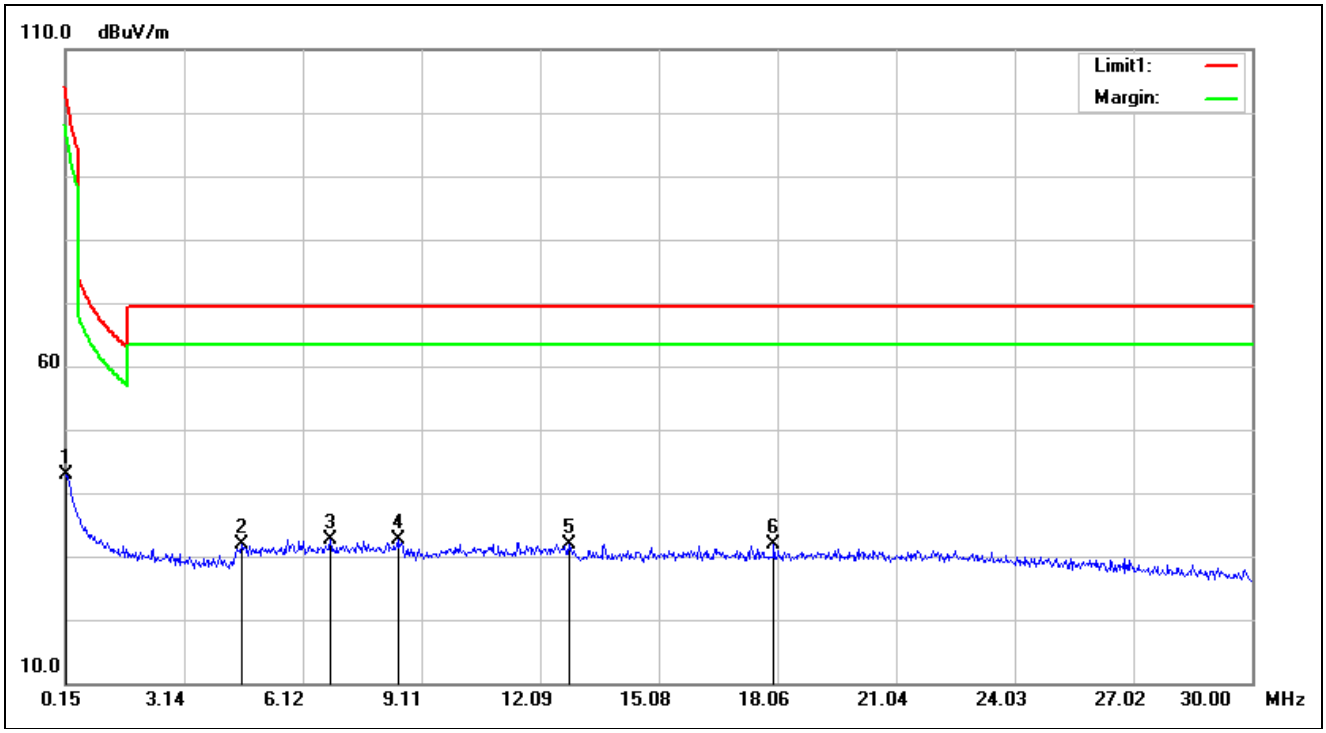

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC2.8_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:31:46**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	23.72	42.80	104.02	-61.22	QP	100	29	
2	4.5976	19.51	12.49	32.00	69.50	-37.50	QP	100	205	
3	6.8065	19.92	12.80	32.72	69.50	-36.78	QP	100	17	
4	8.5079	20.08	12.51	32.59	69.50	-36.91	QP	100	277	
5	12.8063	20.72	11.15	31.87	69.50	-37.63	QP	100	150	
6	17.9704	21.62	10.20	31.82	69.50	-37.68	QP	100	9	

Spurious Emissions, TX Mode, 30M-1G

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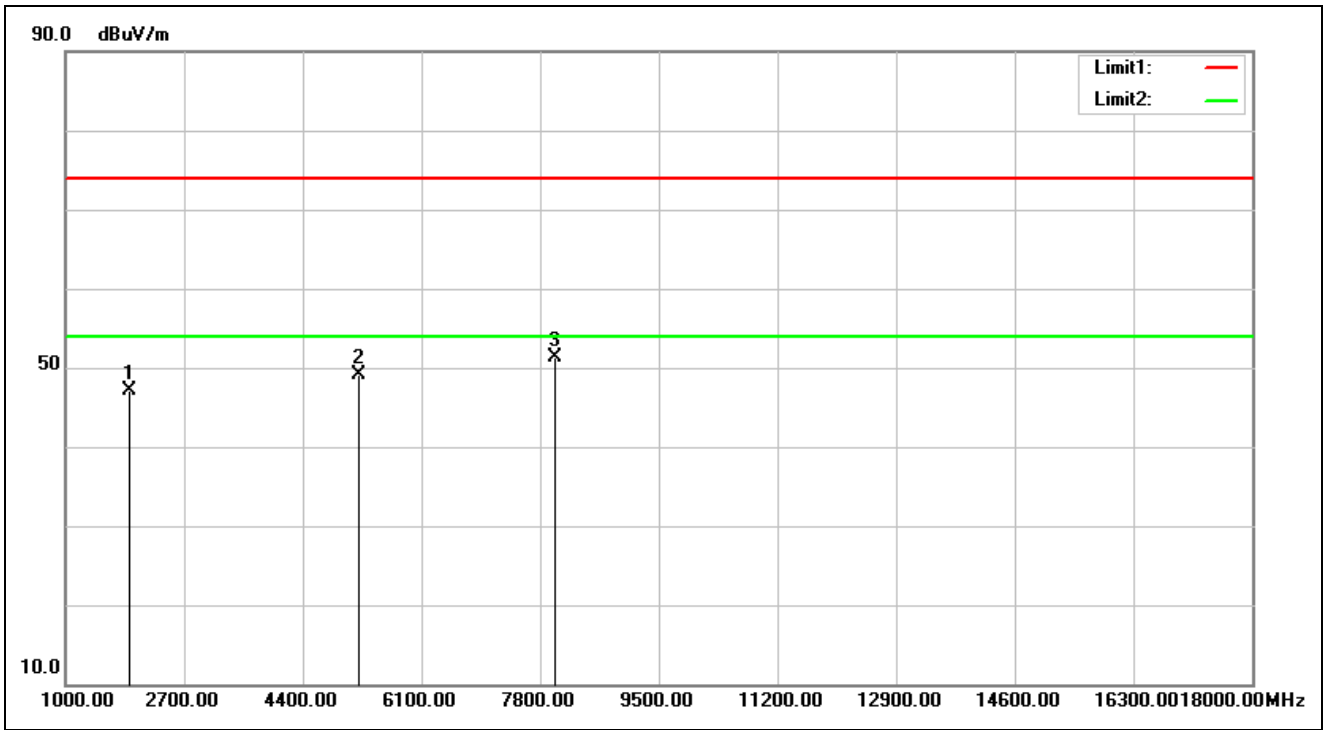

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:33:57**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	-7.68	54.76	47.08	74.00	-26.92	peak	100	100	
2	5199.000	-1.22	50.36	49.14	74.00	-24.86	peak	100	86	
3	8004.000	5.82	45.56	51.38	74.00	-22.62	peak	100	158	

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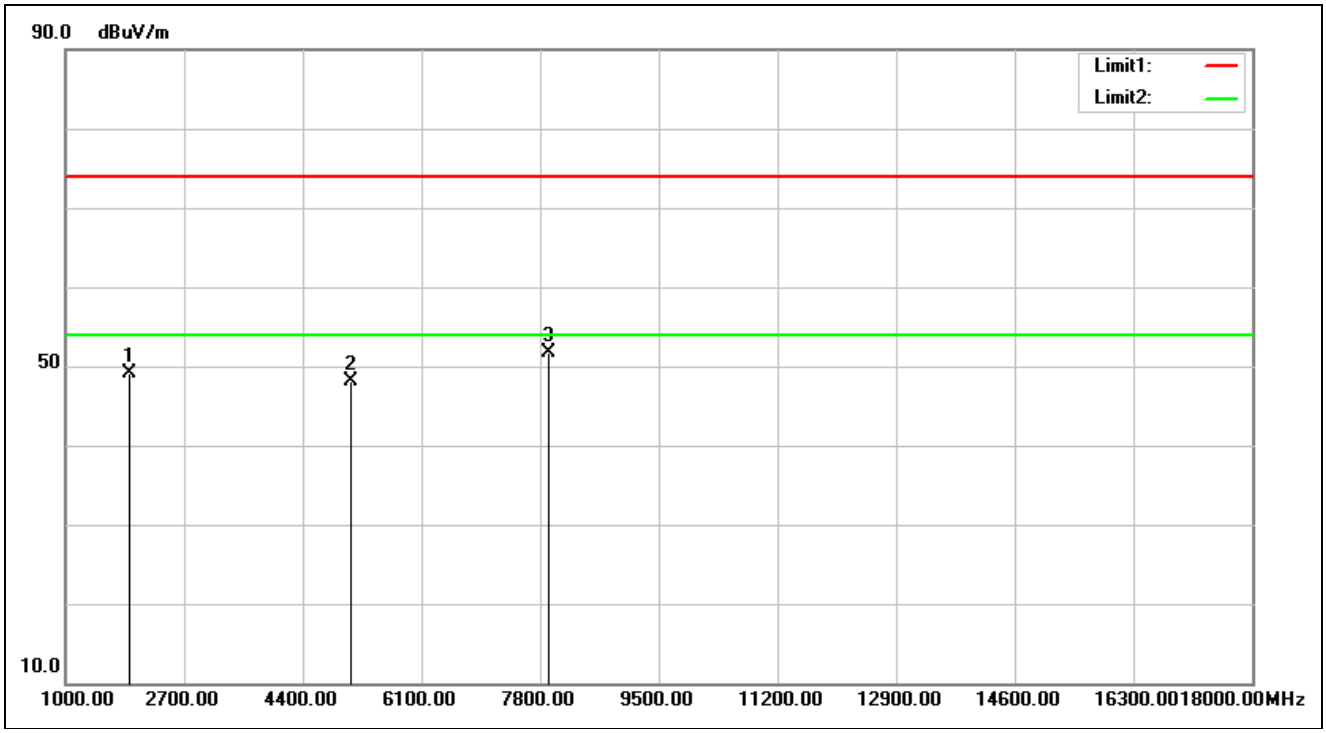

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 11:35:00**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	-7.68	56.69	49.01	74.00	-24.99	peak	100	301	
2	5097.000	-1.70	49.88	48.18	74.00	-25.82	peak	100	16	
3	7919.000	5.84	45.83	51.67	74.00	-22.33	peak	100	349	

Spurious Emissions, RX Mode, 1-18G

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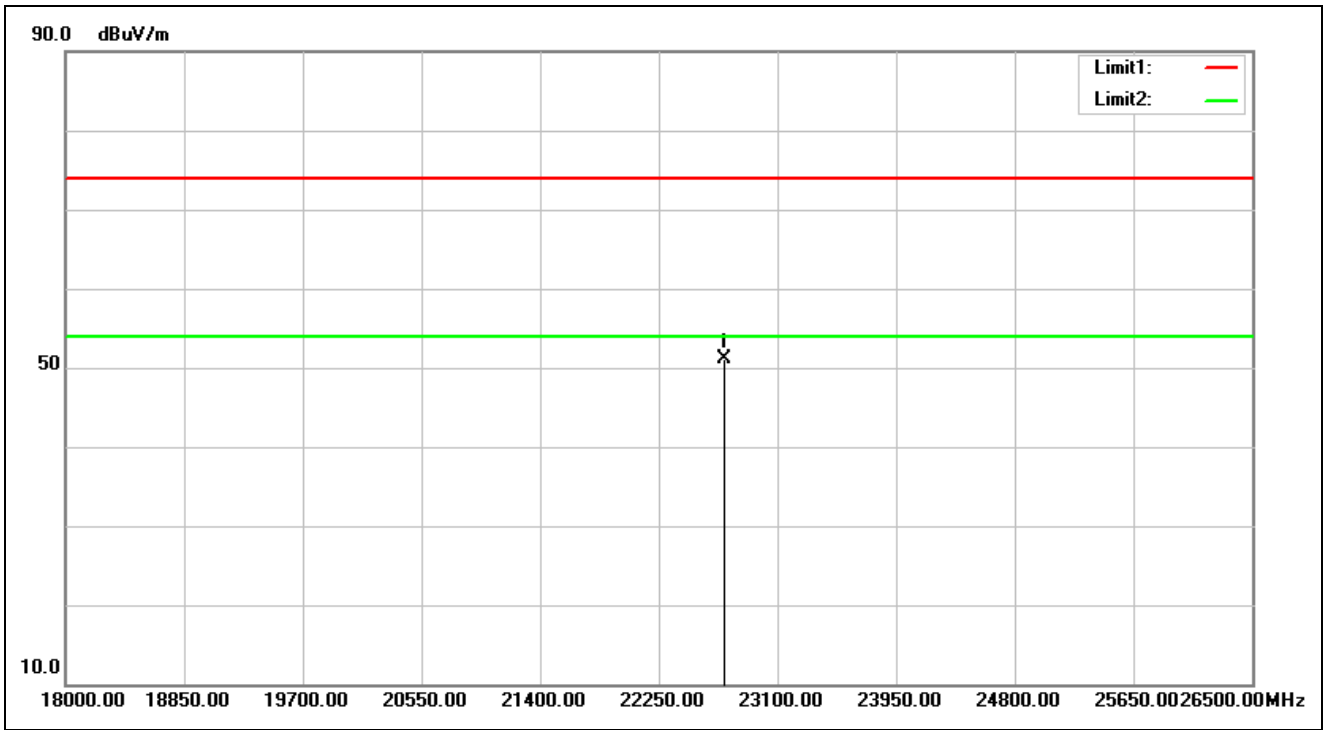

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:08:46**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	22717.500	32.71	18.45	51.16	74.00	-22.84	peak			

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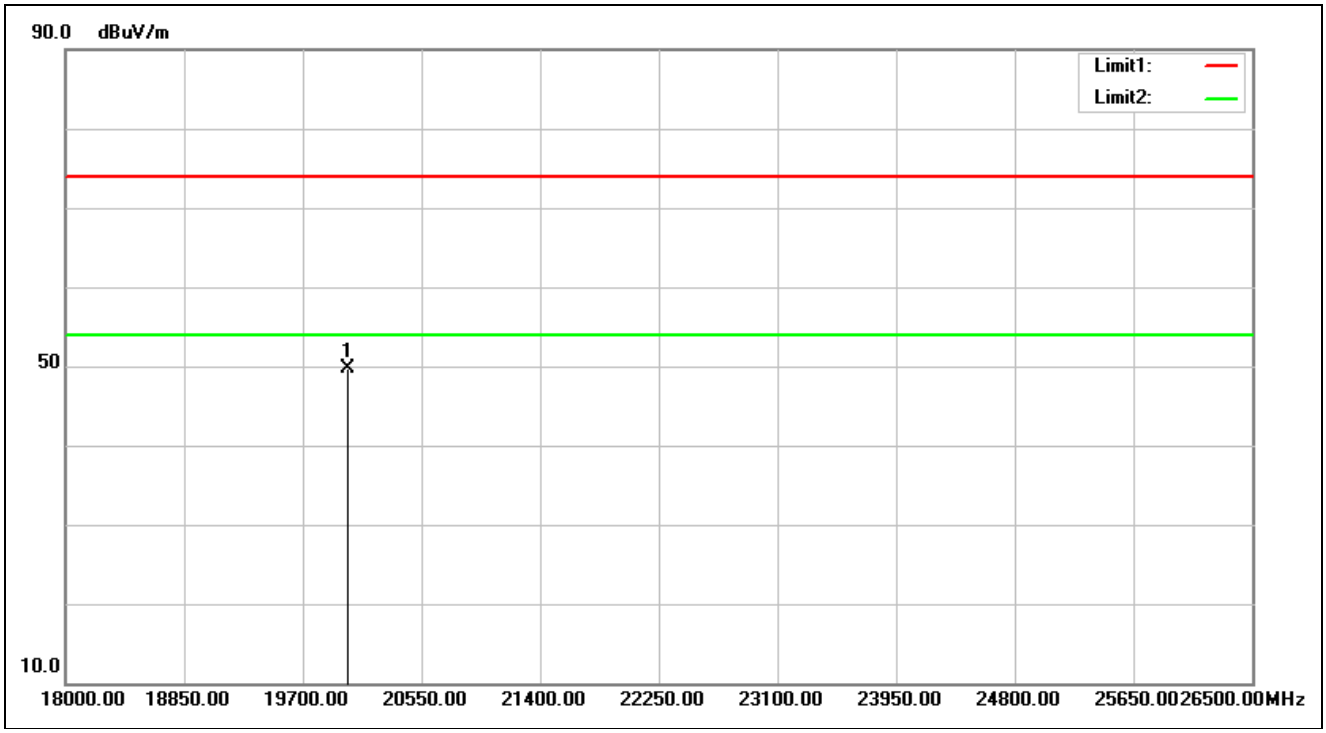

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Above 1G PEAK**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 13:08:55**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	20023.000	31.22	18.39	49.61	74.00	-24.39	peak			

Spurious Emissions, RX Mode, 18-26G

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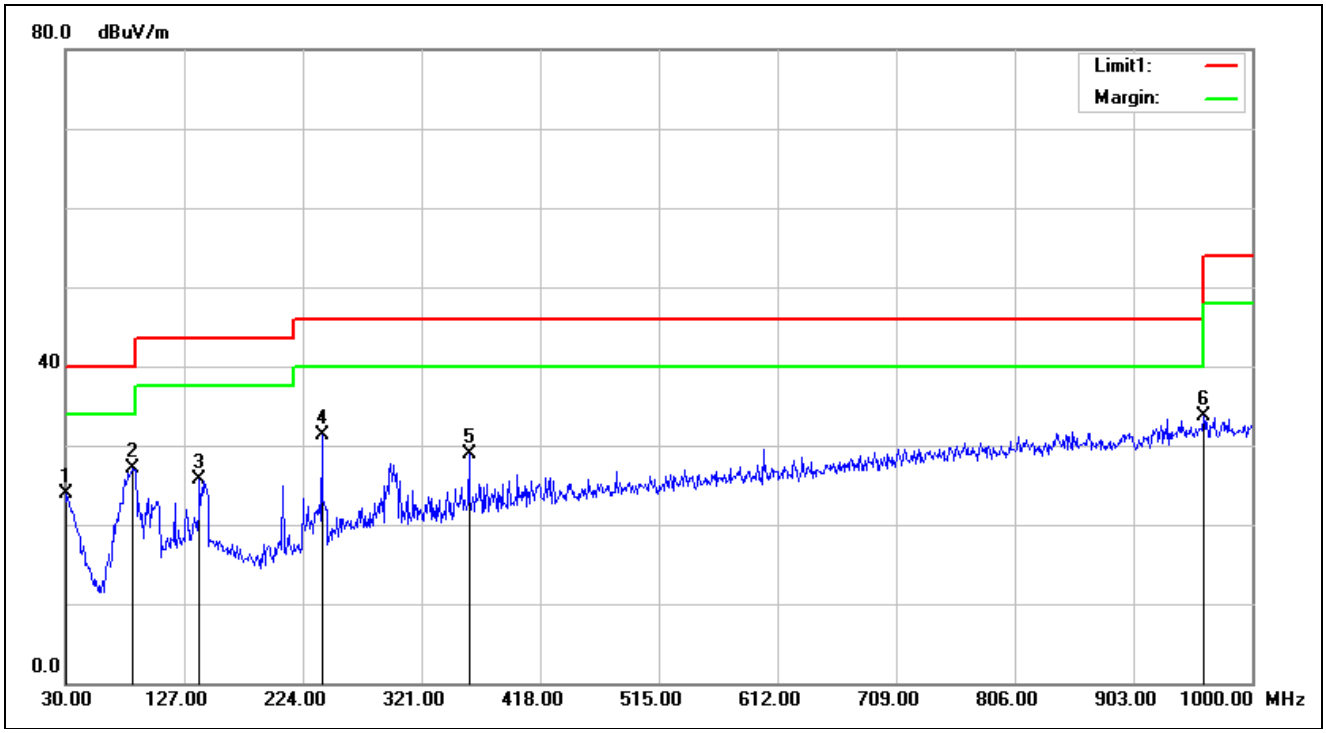

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Class B 3M Radiation**	**Ant. Polarization:**	**Horizontal**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:22:52**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	-0.25	24.09	23.84	40.00	-16.16	QP	100	253	
2	85.2900	-11.47	38.67	27.20	40.00	-12.80	QP	100	306	
3	139.6100	-7.02	32.68	25.66	43.50	-17.84	QP	100	88	
4	239.5200	-6.85	38.07	31.22	46.00	-14.78	QP	100	162	
5	359.8000	-3.16	32.14	28.98	46.00	-17.02	QP	100	55	
6	960.2300	5.54	28.25	33.79	54.00	-20.21	QP	100	199	

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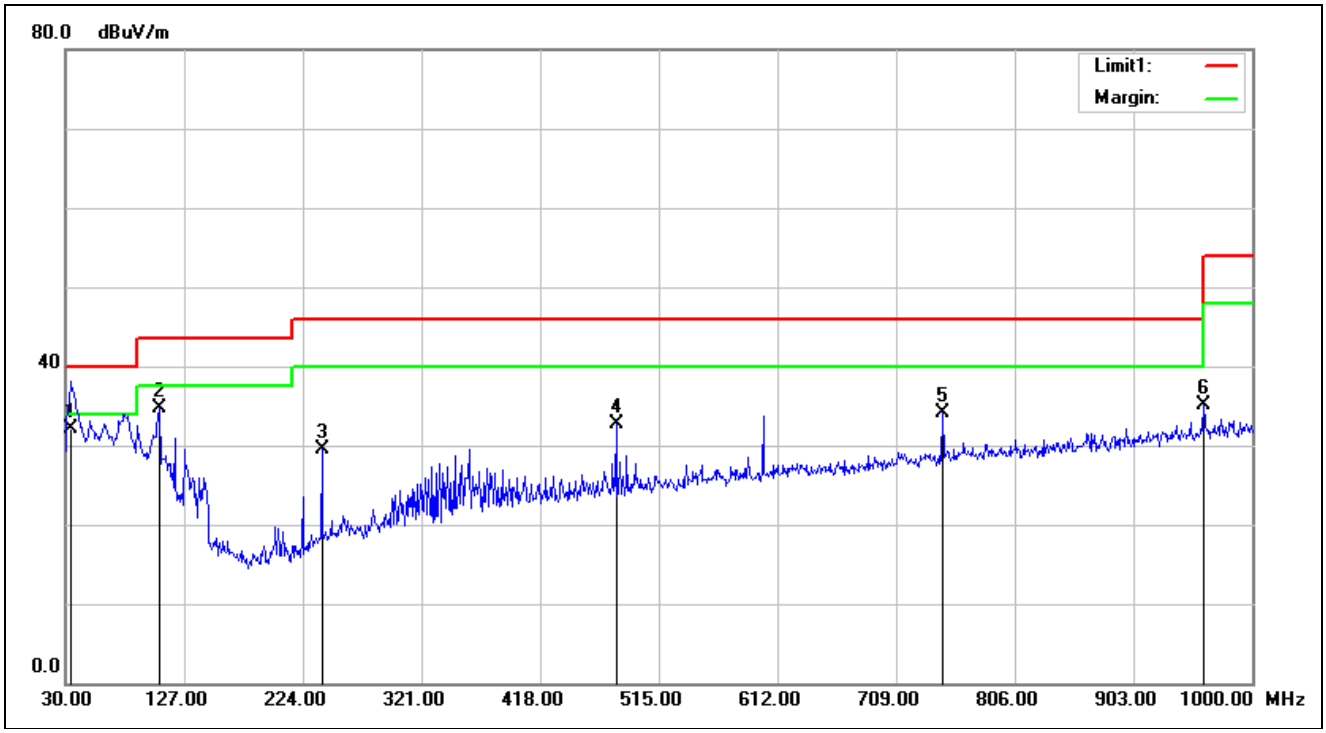

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC Class B 3M Radiation**	**Ant. Polarization:**	**Vertical**
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:21:02**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-TX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	33.8800	-2.46	34.56	32.10	40.00	-7.90	QP	100	133	
2	106.6299	-8.64	43.36	34.72	43.50	-8.78	QP	100	133	
3	239.5200	-6.85	36.39	29.54	46.00	-16.46	QP	100	340	
4	480.0799	-1.47	34.24	32.77	46.00	-13.23	QP	100	150	
5	746.8300	2.30	31.87	34.17	46.00	-11.83	QP	100	69	
6	960.2300	5.54	29.47	35.01	54.00	-18.99	QP	100	329	

Spurious Emissions, RX Mode, 30M-1G

Spurious Emissions, RX Mode, 9k-150K

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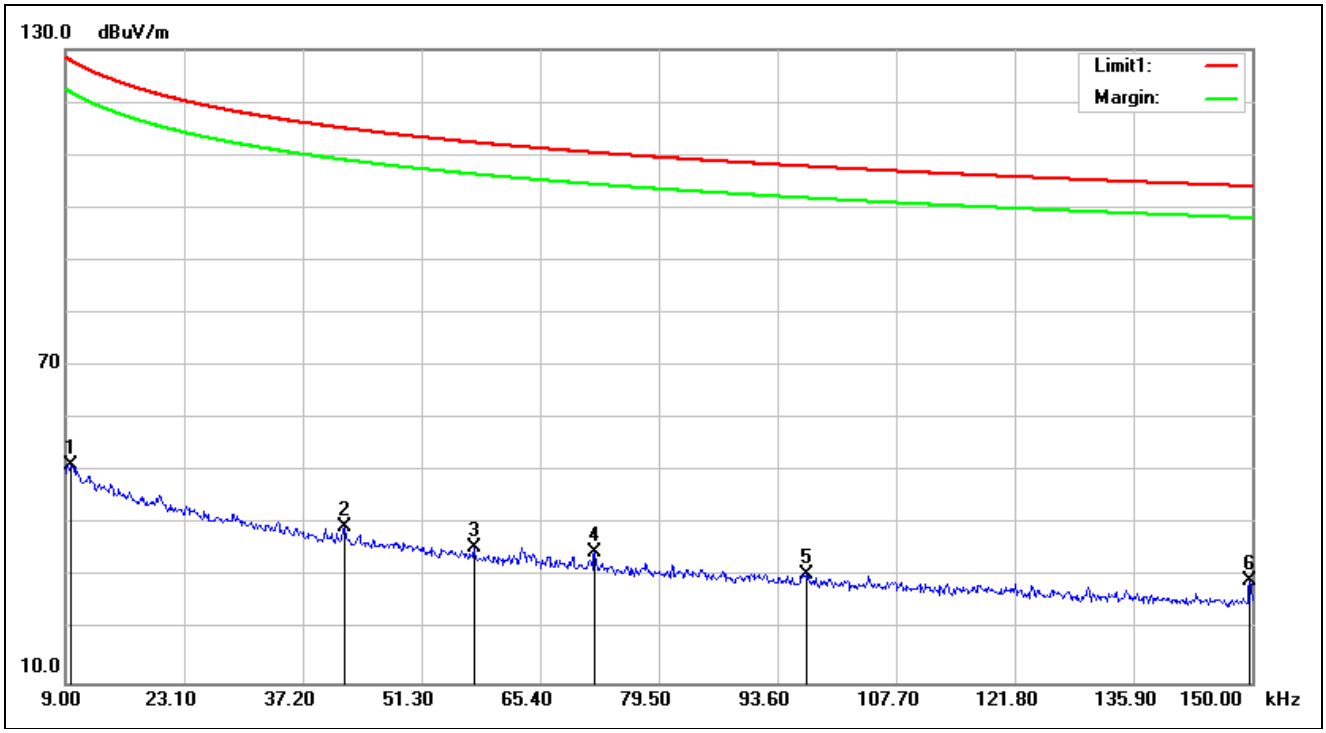

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC2.8_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:29:40**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-RX**		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (∘)	Remark
1	0.0097	19.82	31.53	51.35	127.75	-76.40	QP	100	288	
2	0.0421	19.71	19.91	39.62	115.05	-75.43	QP	100	48	
3	0.0575	19.38	16.29	35.67	112.35	-76.68	QP	100	357	
4	0.0719	19.30	15.52	34.82	110.41	-75.59	QP	100	38	
5	0.0971	19.15	11.32	30.47	107.81	-77.34	QP	100	1	
6	0.1497	19.08	10.23	29.31	104.06	-74.75	QP	100	46	

Spurious Emissions, RX Mode, 30M-1G

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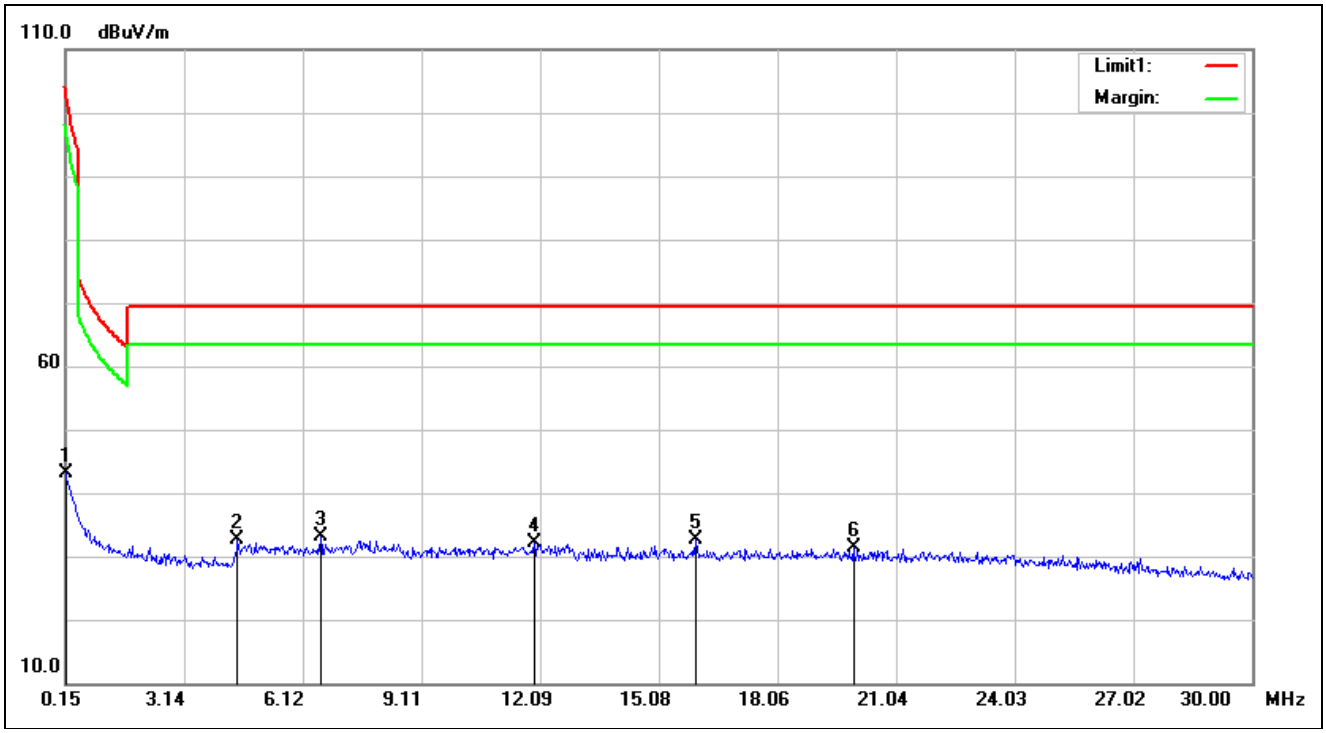

Service No.:	**114074441(E3)-NCC**	**Test Distance:**	**3m**
Test Standard:	**NCC2.8_9k-1G_3m**	**Ant. Polarization:**	
Test item:	**Radiation Emission**	**Test Time:**	**2018/3/21 14:32:49**
Applicant:	**TGI**	**Test Rating:**	**DC 5V**
Product:	**Bluetooth Speaker**	**Temp.(℃)/Hum.(%):**	**20.4(℃)/60%**
Model No.:	**E3**	**Test Engineer:**	**George Yang**
Test Mode:	**1DH5-2441-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	24.04	43.12	104.02	-60.90	QP	100	15	
2	4.4783	19.44	13.11	32.55	69.50	-36.95	QP	100	356	
3	6.5678	19.91	13.25	33.16	69.50	-36.34	QP	100	3	
4	11.9407	20.56	11.52	32.08	69.50	-37.42	QP	100	356	
5	16.0004	21.28	11.24	32.52	69.50	-36.98	QP	100	26	
6	19.9704	21.97	9.46	31.43	69.50	-38.07	QP	100	166	

Mains Spurious Emissions

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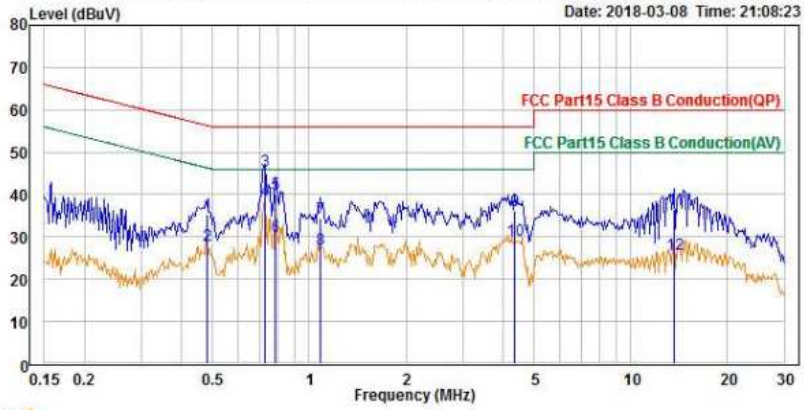

Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) line1
Test Engineer: Colin Lu
Applicant : TGI(TUV QD)
Product : Bluetooth Speaker
Model No. : E3
Test Rating : 120Vac/60Hz
Tmp/Hum : 20 ℃/ 42%
Memo : (a)Charging mode

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.480	25.76	9.66	35.42	56.34	-20.92	QP
2	0.480	18.43	9.66	28.09	46.34	-18.25	Average
3	0.729	35.95	9.66	45.61	56.00	-10.39	QP
4	0.729	28.93	9.66	38.59	46.00	-7.41	Average
5	0.781	30.38	9.66	40.04	56.00	-15.96	QP
6	0.781	20.46	9.66	30.12	46.00	-15.88	Average
7	1.084	24.74	9.66	34.40	56.00	-21.60	QP
8	1.084	17.33	9.66	26.99	46.00	-19.01	Average
9	4.361	26.60	9.72	36.32	56.00	-19.68	QP
10	4.361	19.57	9.72	29.29	46.00	-16.71	Average
11	13.679	26.78	9.81	36.59	60.00	-23.41	QP
12	13.679	16.09	9.81	25.90	50.00	-24.10	Average

- 1 -

Spurious Emissions, Mains, 150kHz - 30MHz

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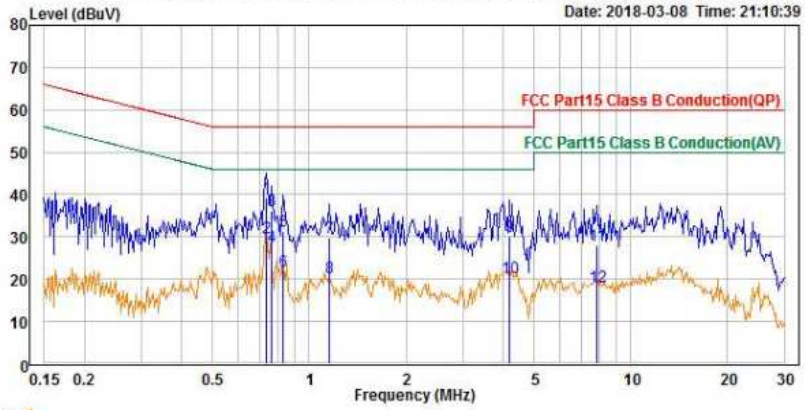
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105
Tel:+886-2172-7000 Fax:+886-2528-0018

File: C:\EMC\Report\2018\TGI(TUV QD)\114074441(S3,E3,E3 mini,4,E4)\114074441(S3,E3,E3 mini,4,E4)_00003



Trace: 1

Site : Conduction room
Condition : FCC Part15 Class B Conduction(QP) neutral
Test Engineer: Colin Lu
Applicant : TGI(TUV QD)
Product : Bluetooth Speaker
Model No. : E3
Test Rating : 120Vac/60Hz
Tmp/Hum : 20 ℃/ 42%
Memo : (a)Charging mode

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.736	29.58	9.67	39.25	56.00	-16.75	QP
2	0.736	20.29	9.67	29.96	46.00	-16.04	Average
3	0.766	26.43	9.67	36.10	56.00	-19.90	QP
4	0.766	18.01	9.67	27.68	46.00	-18.32	Average
5	0.829	21.80	9.67	31.47	56.00	-24.53	QP
6	0.829	12.23	9.67	21.90	46.00	-24.10	Average
7	1.151	20.05	9.67	29.72	56.00	-26.28	QP
8	1.151	10.57	9.67	20.24	46.00	-25.76	Average
9	4.191	20.37	9.72	30.09	56.00	-25.91	QP
10	4.191	10.60	9.72	20.32	46.00	-25.68	Average
11	7.840	18.06	9.79	27.85	60.00	-32.15	QP
12	7.840	8.49	9.79	18.28	50.00	-31.72	Average

- 2 -

Spurious Emissions, Mains, 150kHz - 30MHz