

# Test Report No.50073670 001

## Appendix D: Radiated and Mains Spurious Emission Data

(File: 50073670AppendixD)

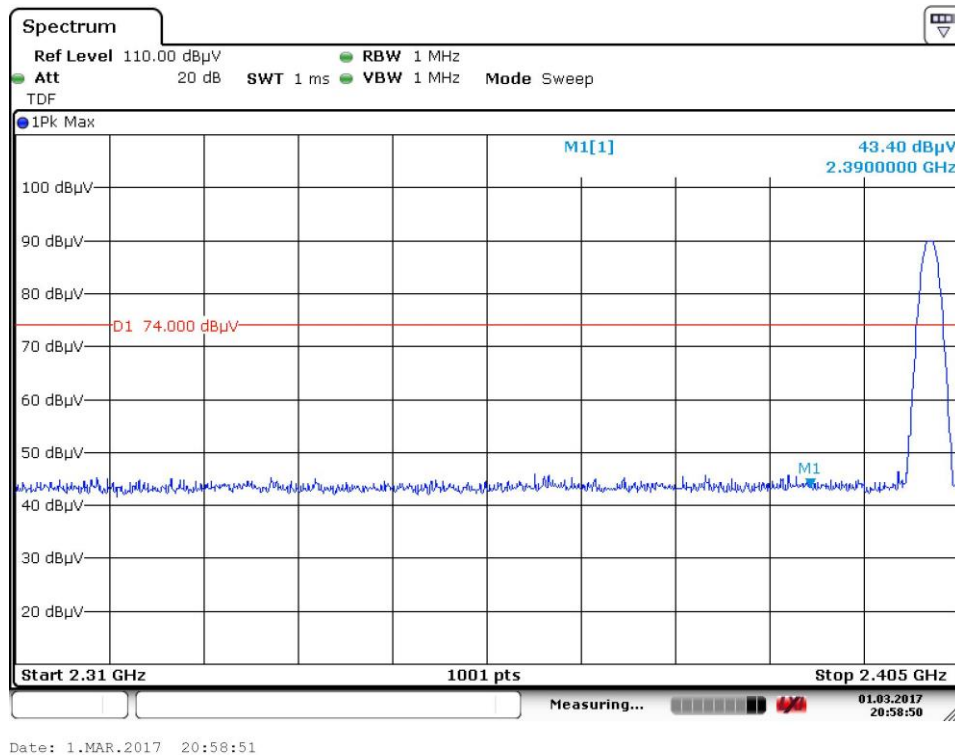
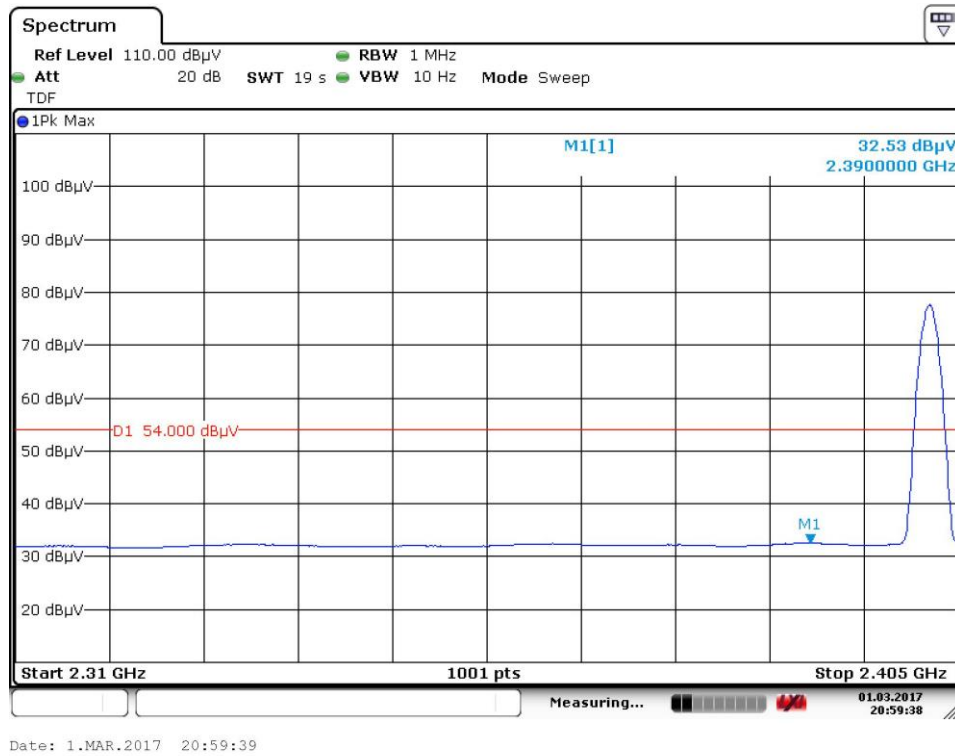
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## Spurious Emissions, Band Edges, 2.35-2.5G

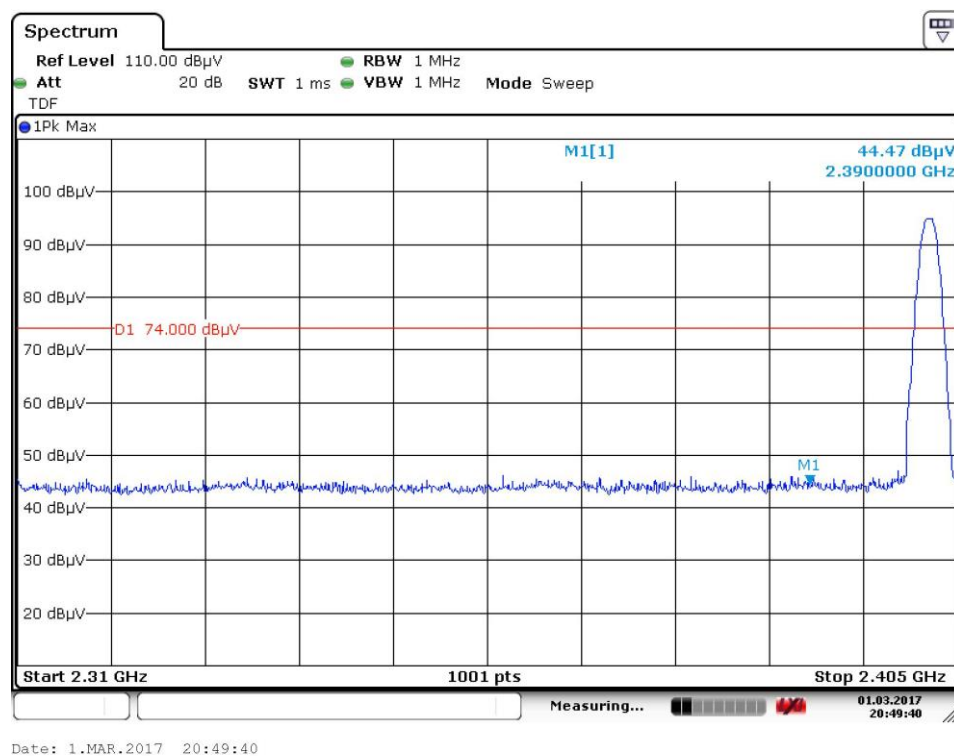
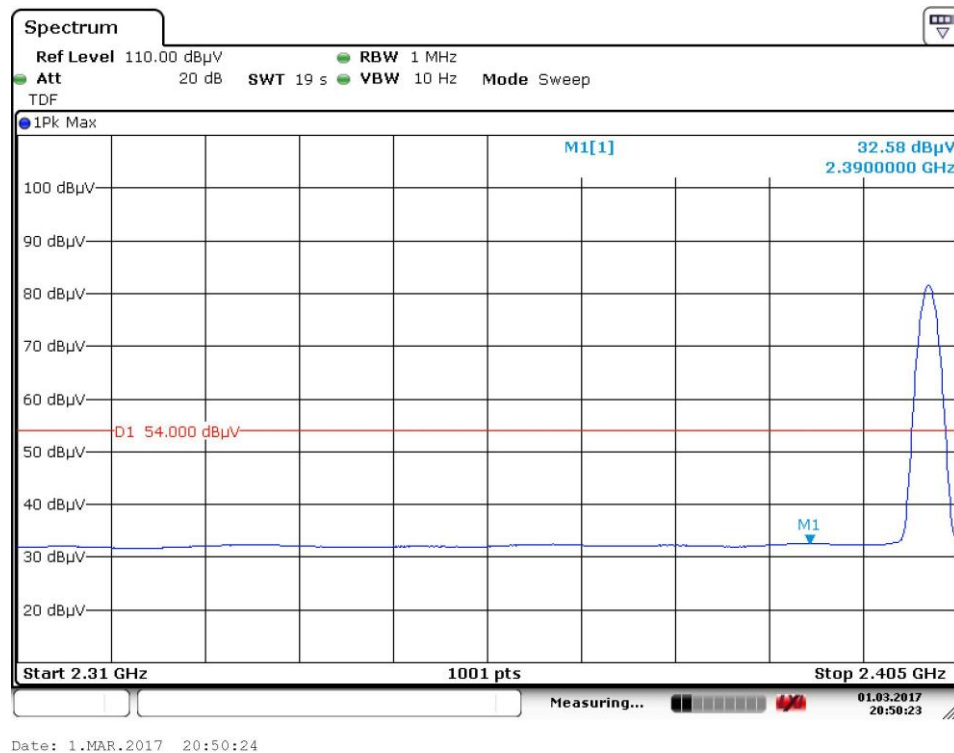
# Radiated Bandedge (GFSK)

### Low Channel (Hor)



## Spurious Emissions, Band Edge, 2.35-2.5G

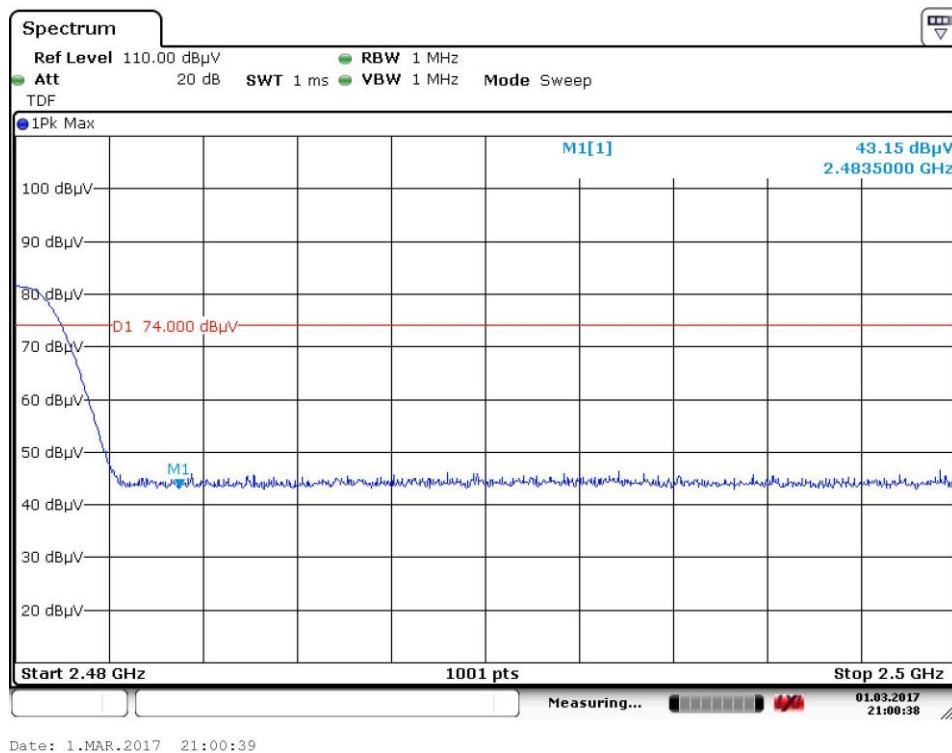
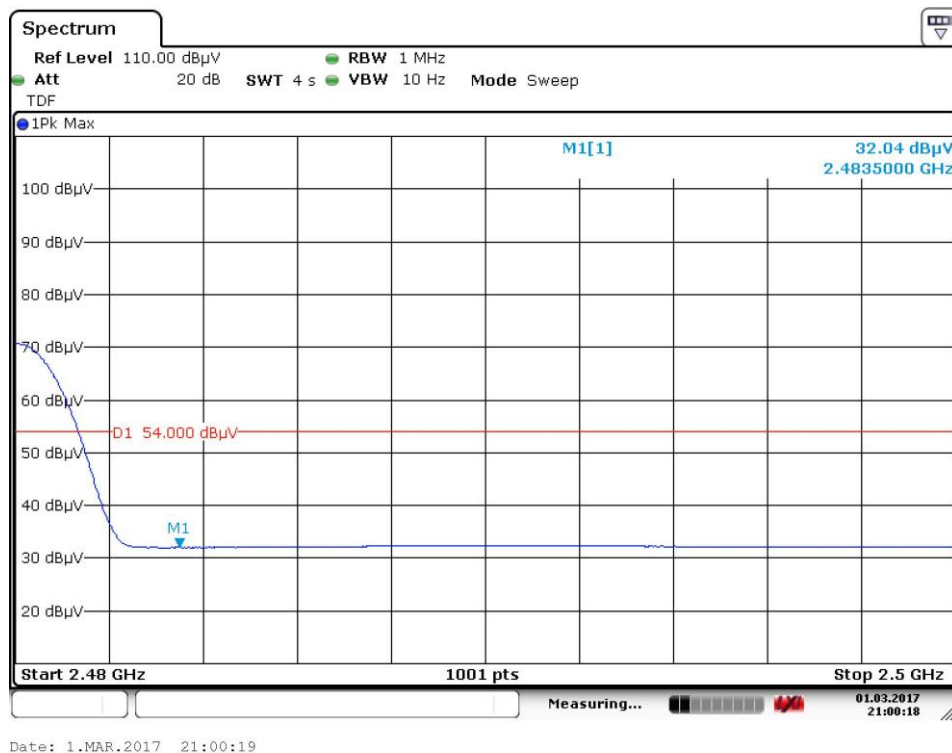
## Low Channel (Ver)



## Spurious Emissions, Band Edge, 2.35-2.5G

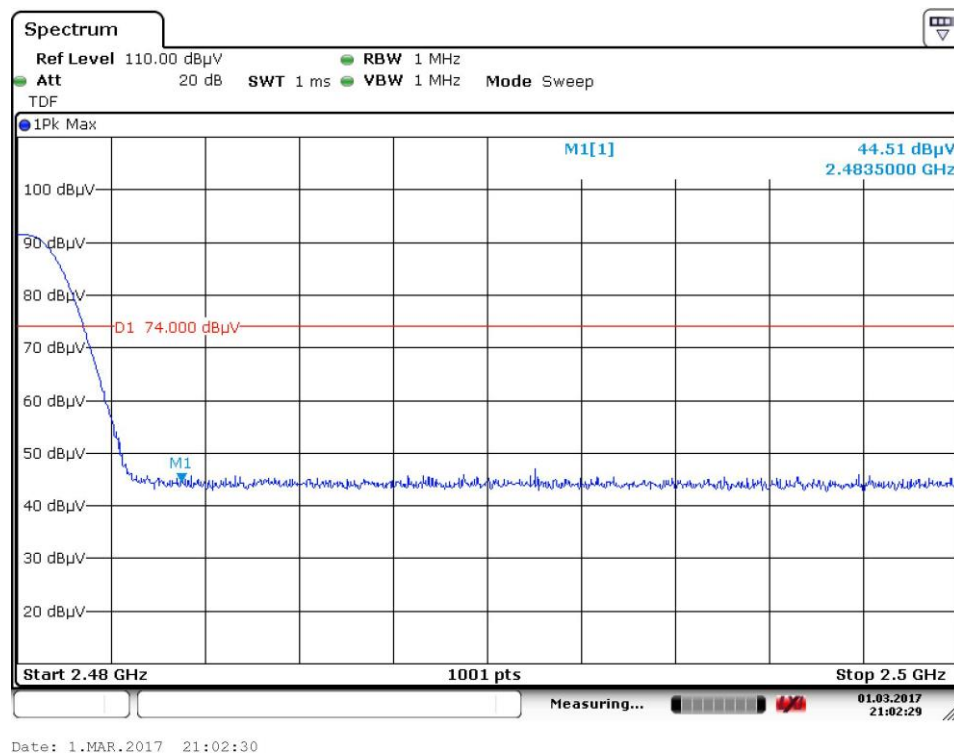
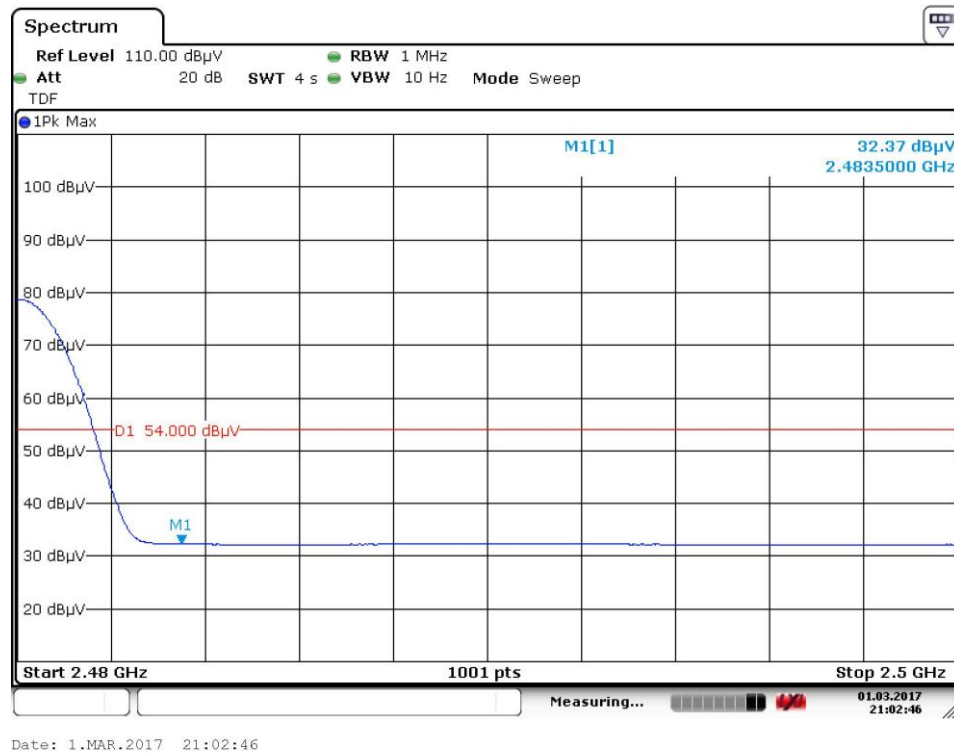
# Radiated Bandedge (GFSK)

## High Channel (Hor)



## Spurious Emissions, Band Edge, 2.35-2.5G

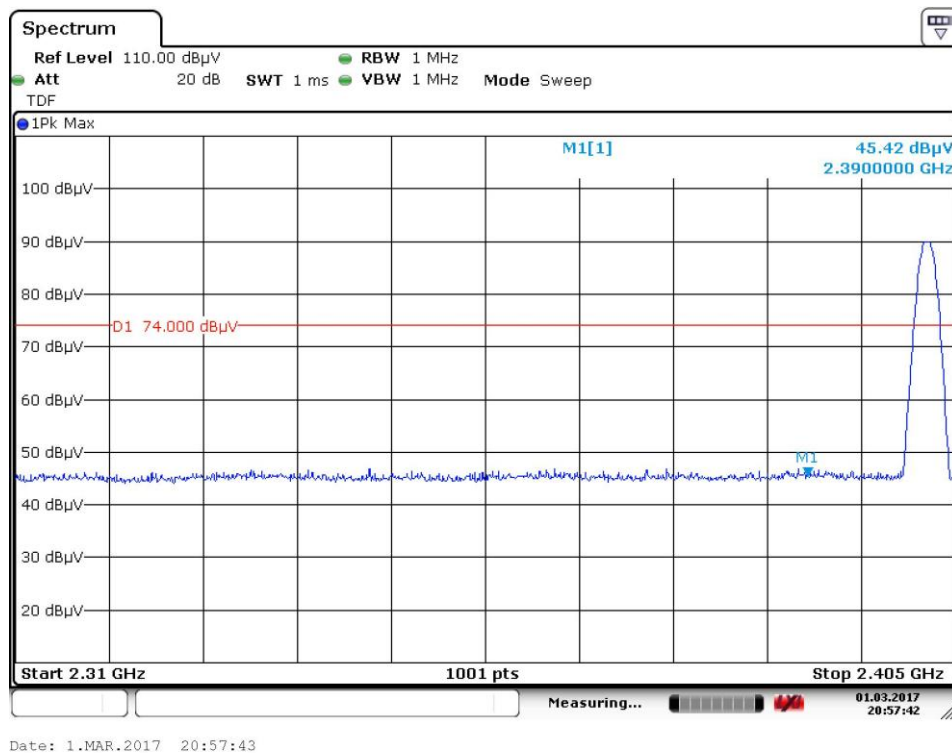
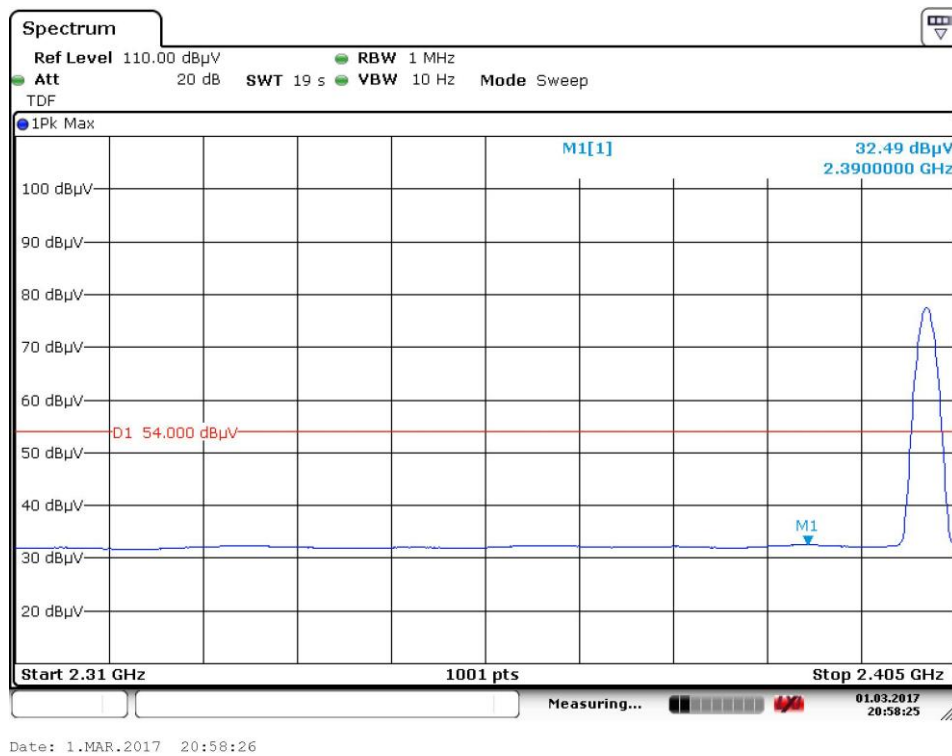
## High Channel (Ver)



## Spurious Emissions, Band Edge, 2.35-2.5G

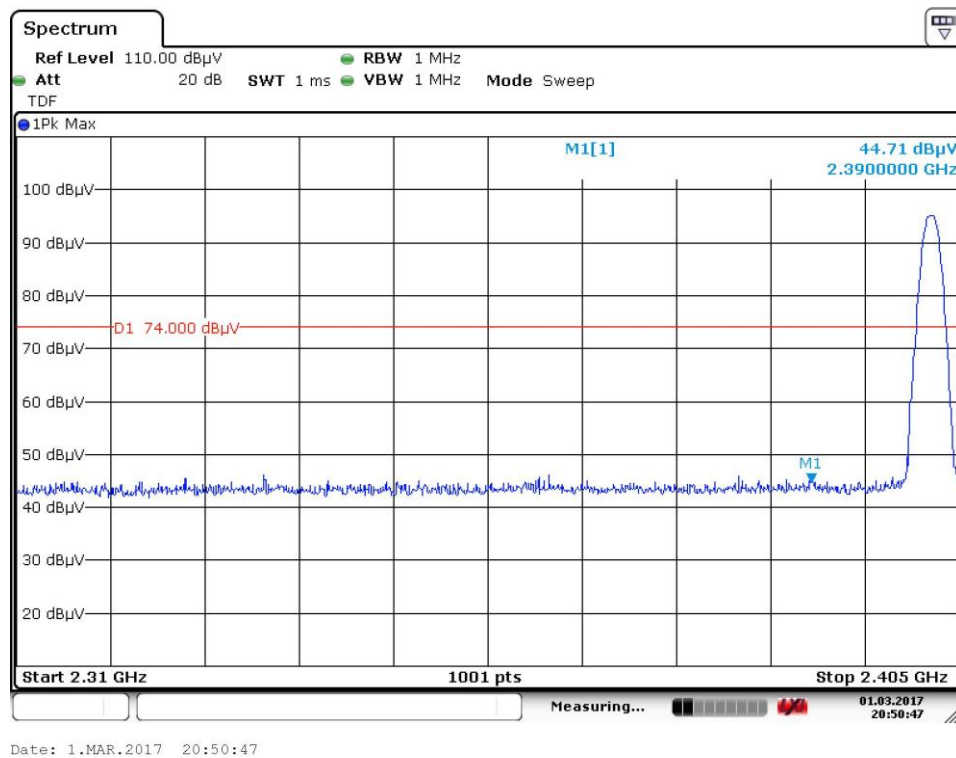
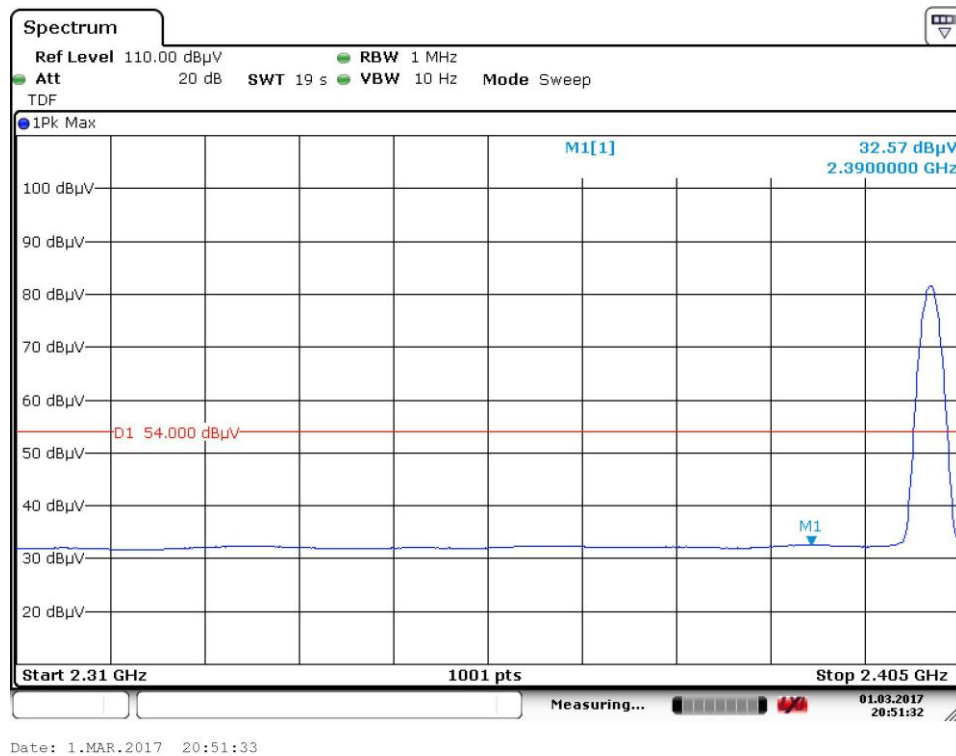
# Radiated Bandedge (8DPSK)

## Low Channel (Hor)



## Spurious Emissions, Band Edge, 2.35-2.5G

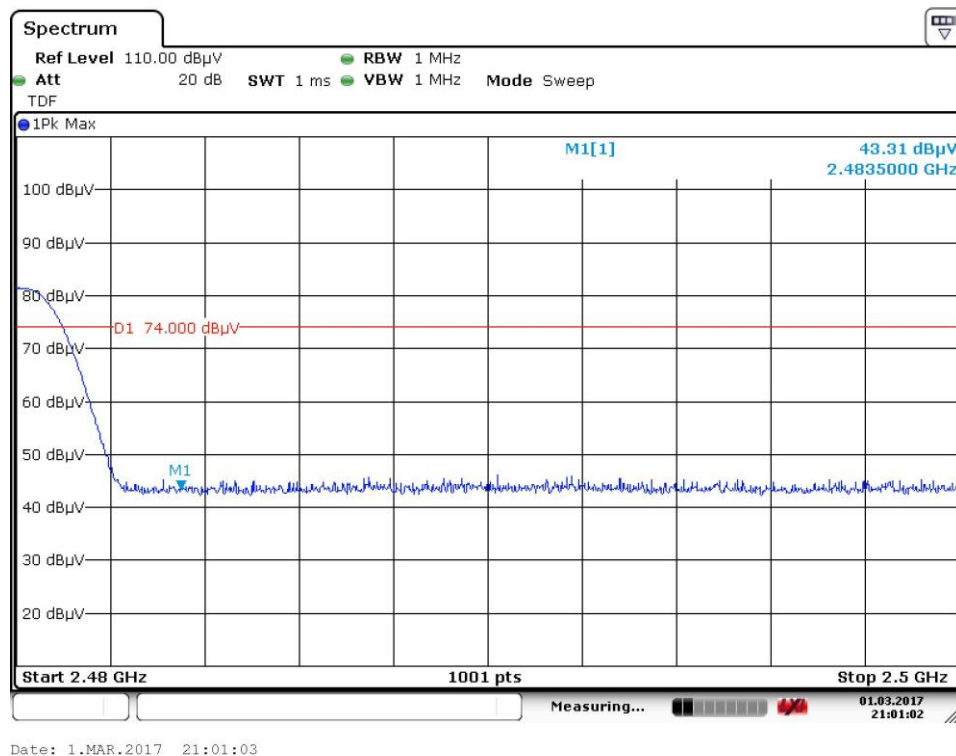
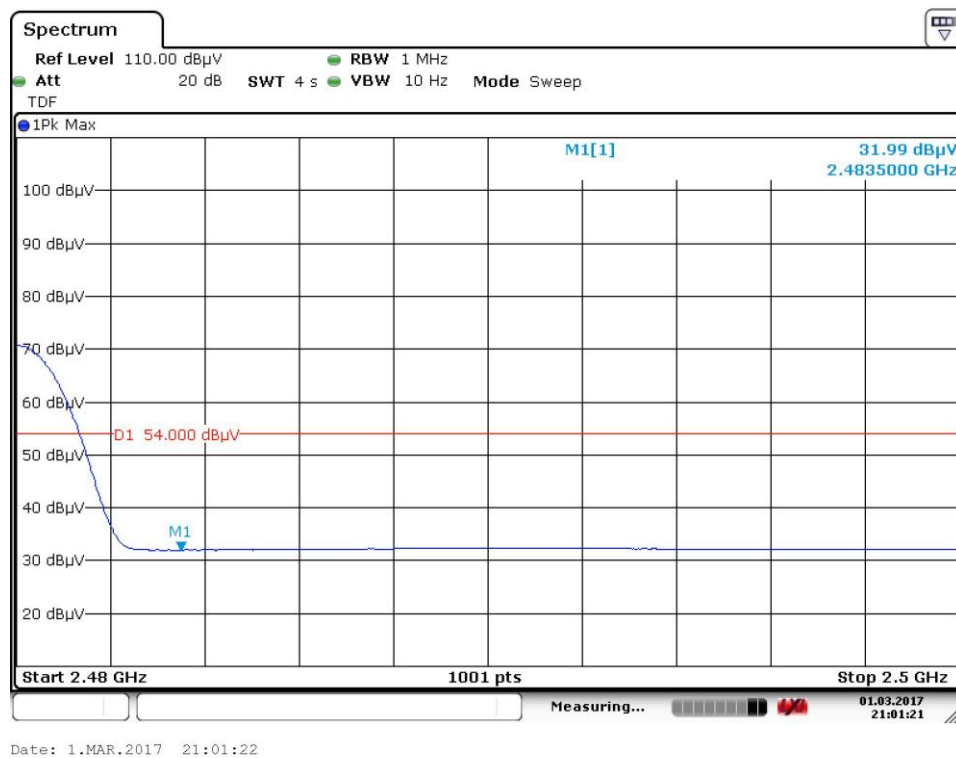
## Low Channel (Ver)



## Spurious Emissions, Band Edge, 2.35-2.5G

# Radiated Bandedge (8DPSK)

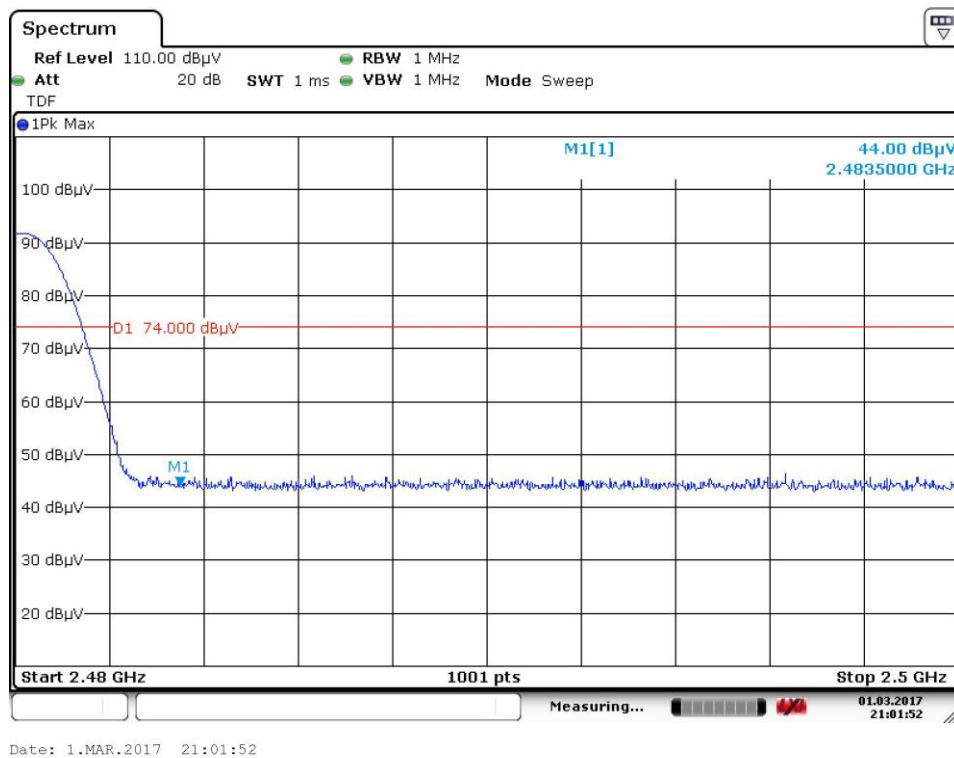
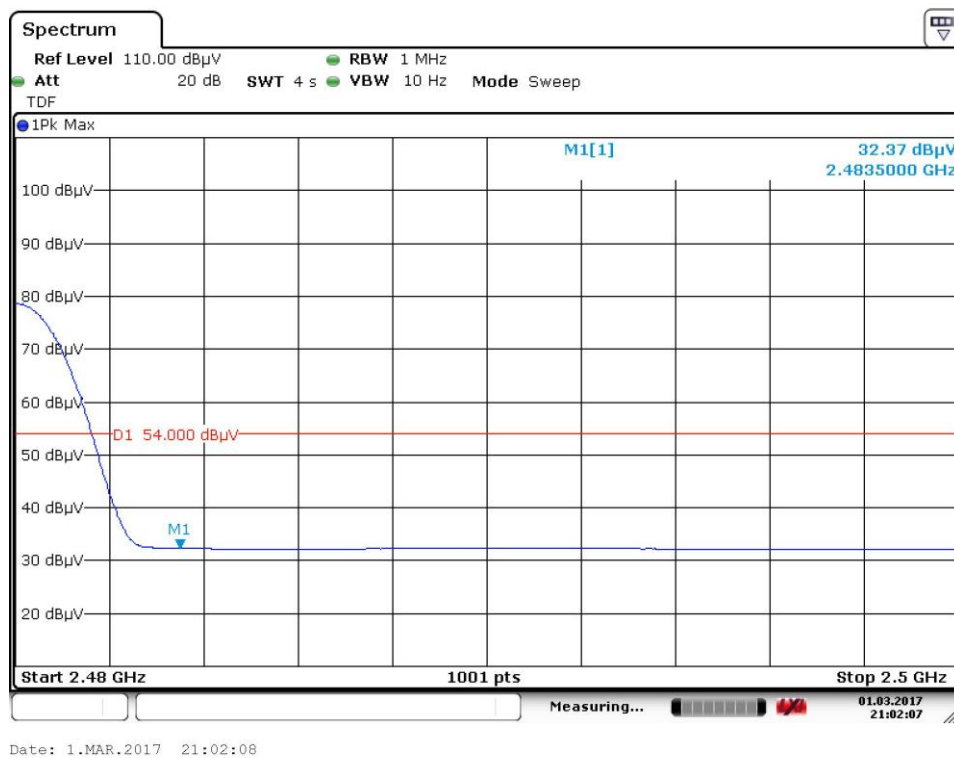
## High Channel (Hor)



## Spurious Emissions, Band Edge, 2.35-2.5G



## High Channel (Ver)



## Spurious Emissions, Band Edge, 2.35-2.5G

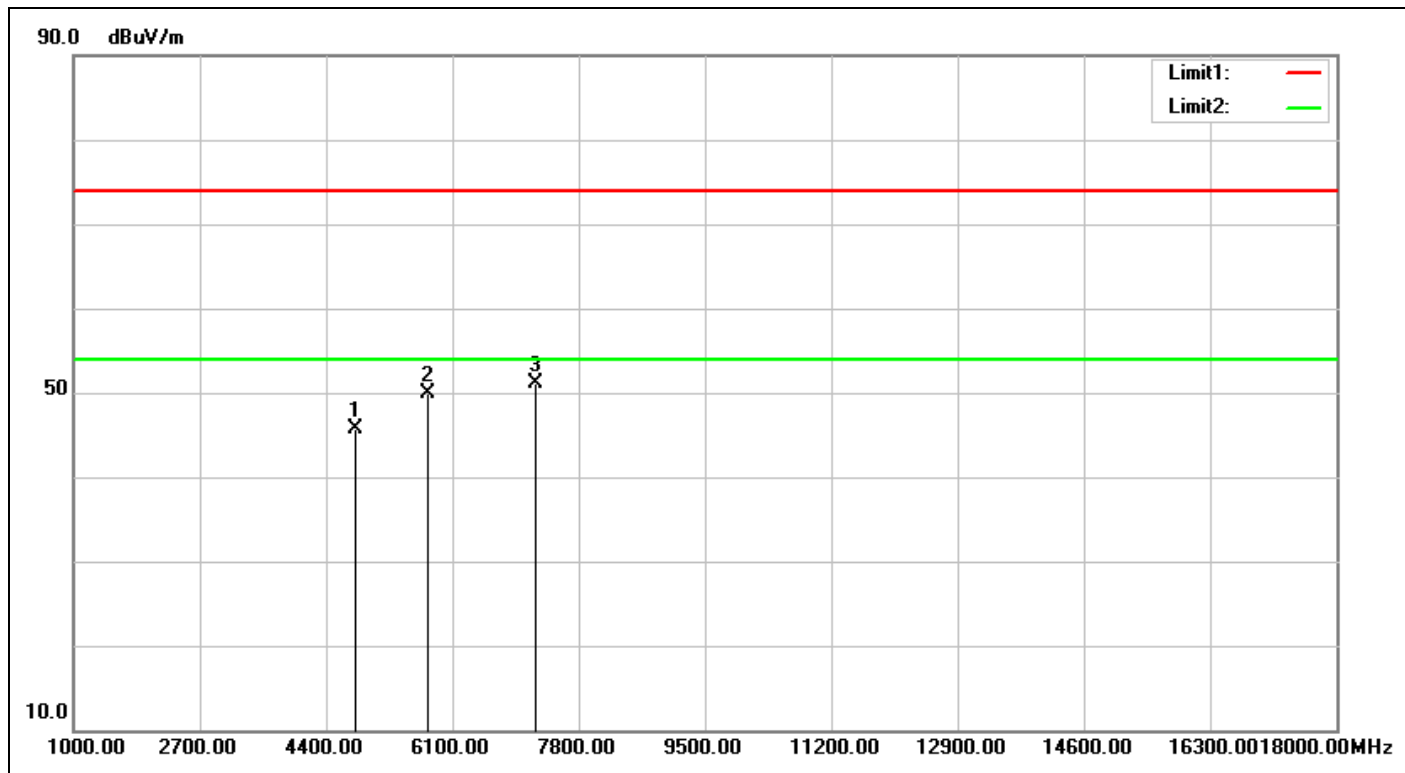
# Spurious Emissions, TX Mode, 1-18G



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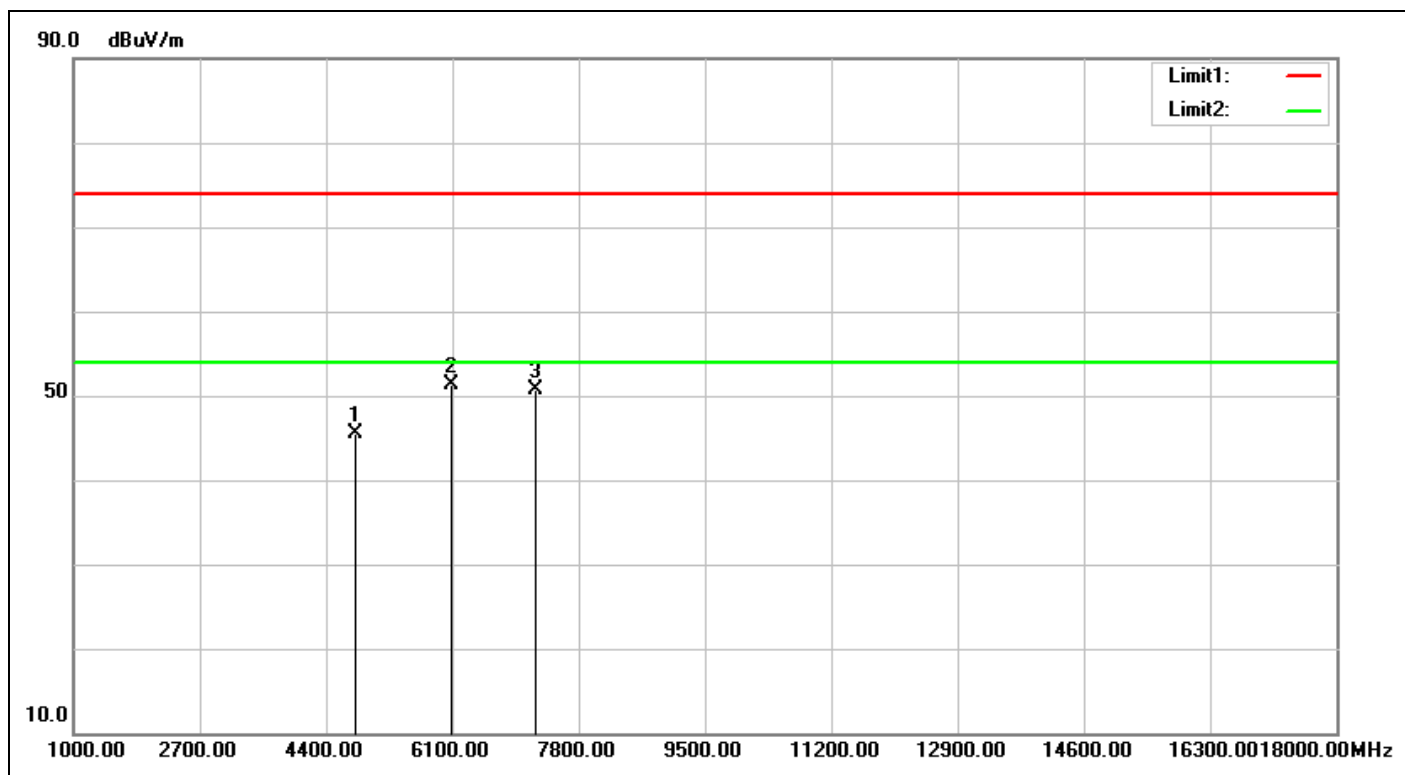
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114058593(MH1-AAA)-BT	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/1 21:03:49
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	20.1(°C)/49%
Model No.:	MH1-AAA	Test Engineer:	George Yang
Test Mode:	1DH5-2402-TX		
Remark:			

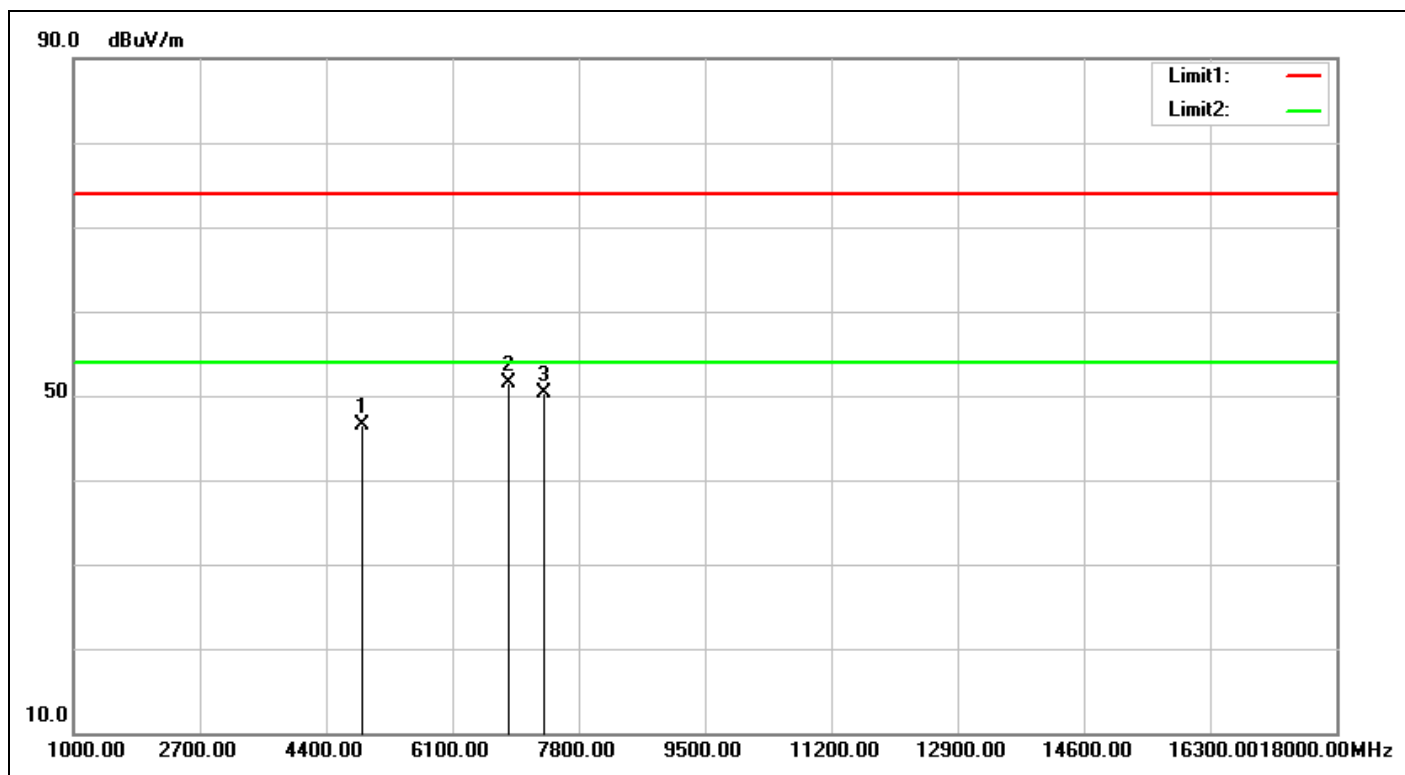
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.66	48.29	45.63	74.00	-28.37	peak		0	
2	5777.000	2.36	47.47	49.83	74.00	-24.17	peak	100	192	
3	7206.000	5.58	45.59	51.17	74.00	-22.83	peak		0	



**Service No.:** 114058593(MH1-AAA)-BT  
**Test Standard:** FCC Above 1G PEAK  
**Test item:** Radiation Emission  
**Applicant:** Molekule  
**Product:** Molekule Home One Air Purifier  
**Model No.:** MH1-AAA  
**Test Mode:** 1DH5-2402-TX  
**Remark:**

**Test Distance:** 3m  
**Ant. Polarization:** Vertical  
**Test Time:** 2017/3/1 21:04:52  
**Test Rating:** AC 120V/60Hz  
**Temp.(°C)/Hum.(%):** 20.1(°C)/49%  
**Test Engineer:** George Yang

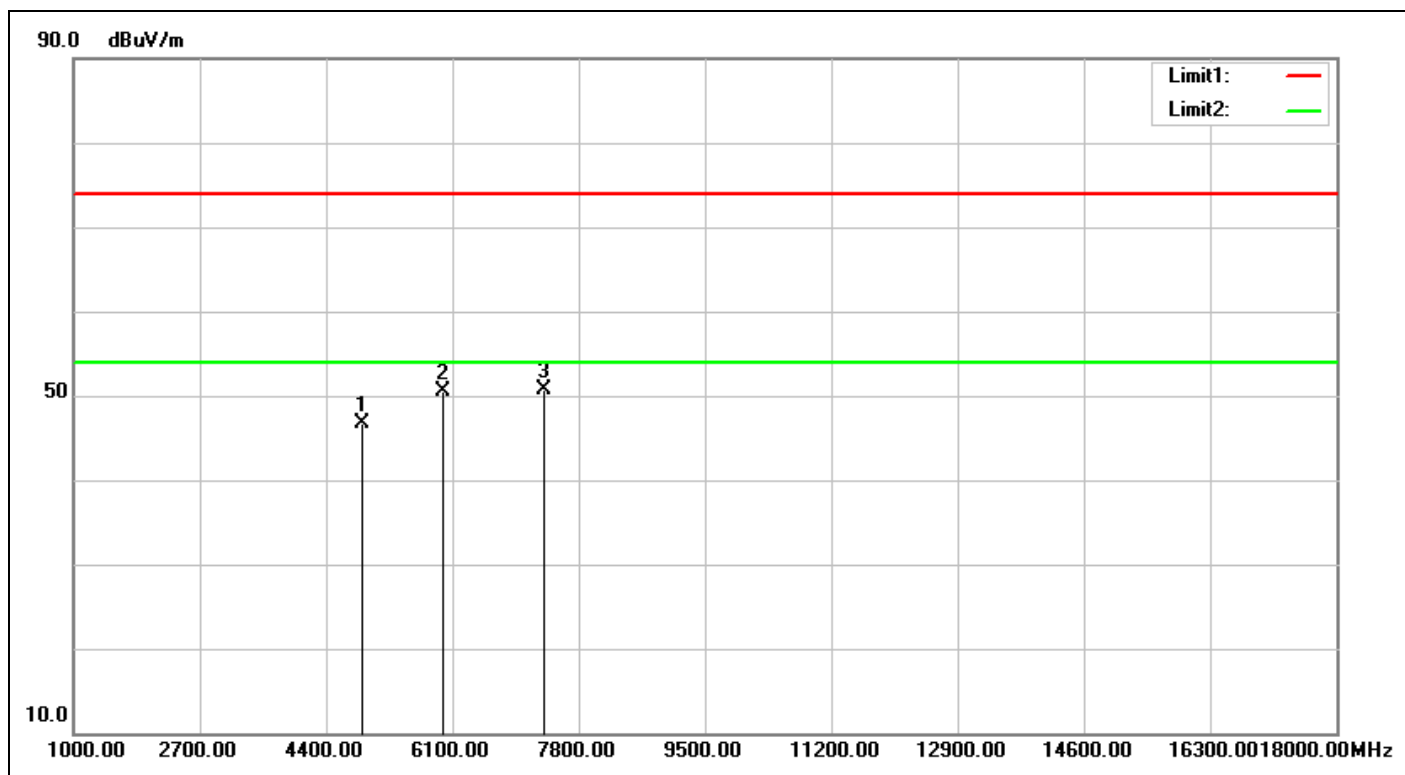
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4804.000	-2.66	48.12	45.46	74.00	-28.54	peak			
2	6083.000	4.18	47.03	51.21	74.00	-22.79	peak	100	359	
3	7206.000	5.58	45.20	50.78	74.00	-23.22	peak			



**Service No.:** 114058593(MH1-AAA)-BT  
**Test Standard:** FCC Above 1G PEAK  
**Test item:** Radiation Emission  
**Applicant:** Molekule  
**Product:** Molekule Home One Air Purifier  
**Model No.:** MH1-AAA  
**Test Mode:** 1DH5-2441-TX  
**Remark:**

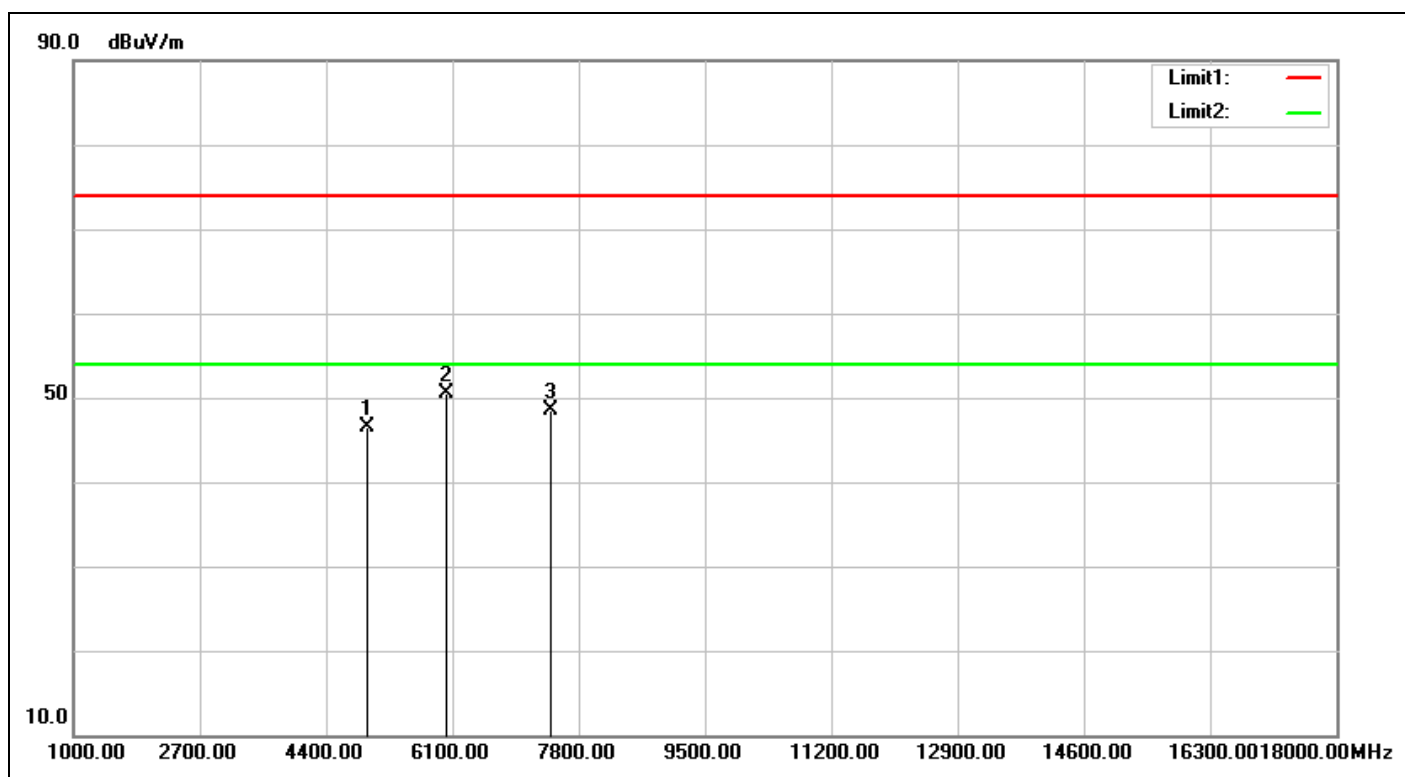
**Test Distance:** 3m  
**Ant. Polarization:** Horizontal  
**Test Time:** 2017/3/1 21:06:51  
**Test Rating:** AC 120V/60Hz  
**Temp.(°C)/Hum.(%):** 20.1(°C)/49%  
**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4882.000	-2.48	49.02	46.54	74.00	-27.46	peak			
2	6865.000	5.12	46.42	51.54	74.00	-22.46	peak	100	26	
3	7323.000	5.93	44.35	50.28	74.00	-23.72	peak			



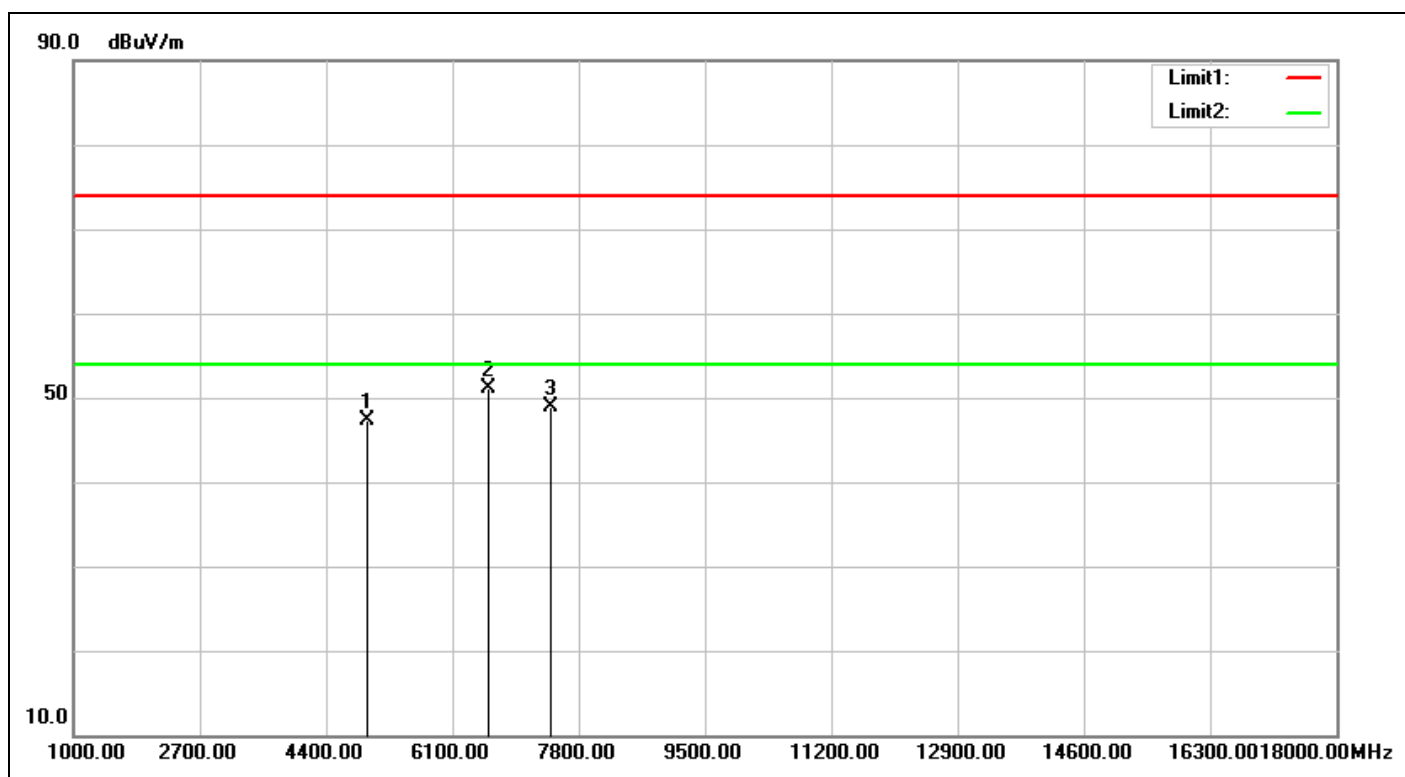
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<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:07:54</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>1DH5-2441-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4882.000	-2.48	49.19	46.71	74.00	-27.29	peak			
2	5964.000	3.66	46.79	50.45	74.00	-23.55	peak	100	169	
3	7323.000	5.93	44.69	50.62	74.00	-23.38	peak			



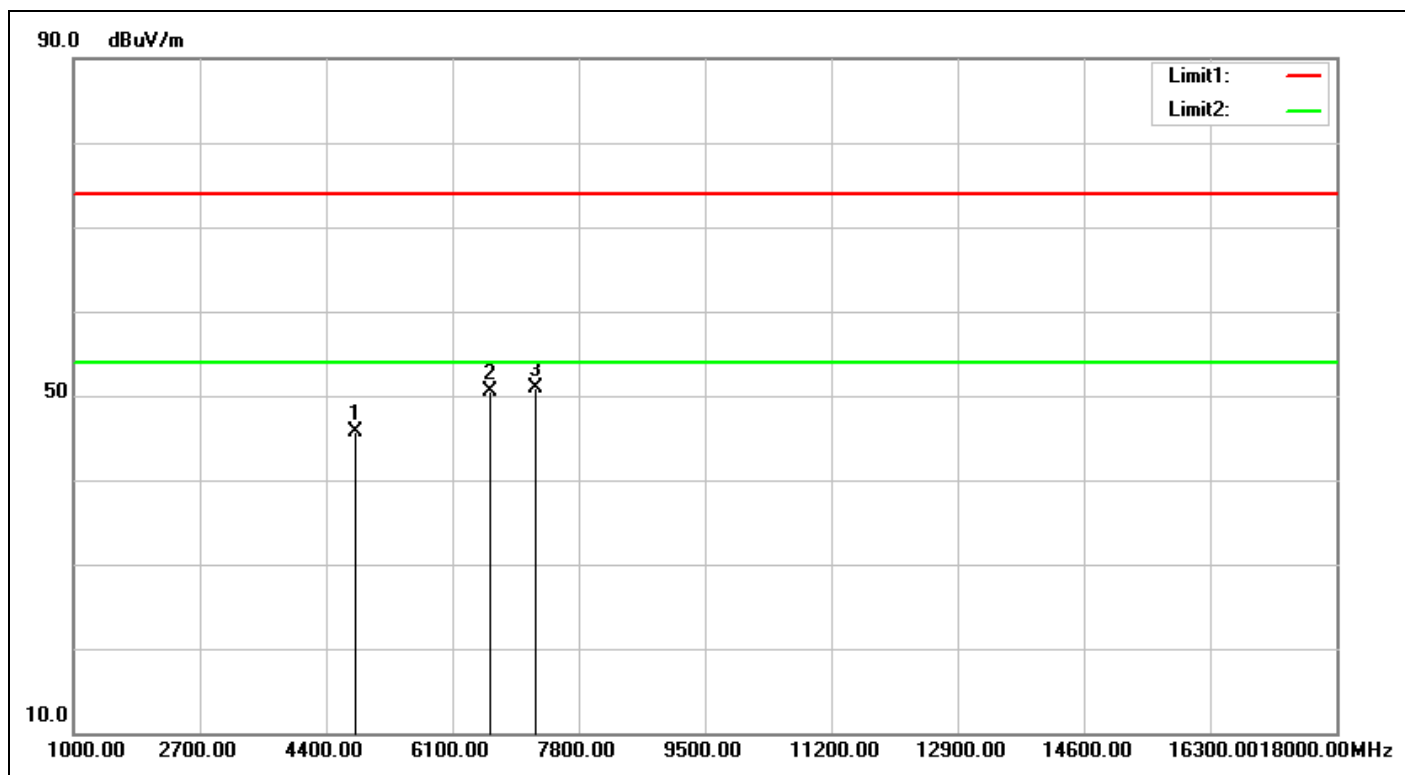
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<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:10:38</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>1DH5-2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4960.000	-2.31	48.75	46.44	74.00	-27.56	peak			
2	6015.000	3.95	46.51	50.46	74.00	-23.54	peak	100	73	
3	7440.000	6.28	42.31	48.59	74.00	-25.41	peak			



Service No.:	114058593(MH1-AAA)-BT	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/1 21:11:41
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	20.1(°C)/49%
Model No.:	MH1-AAA	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

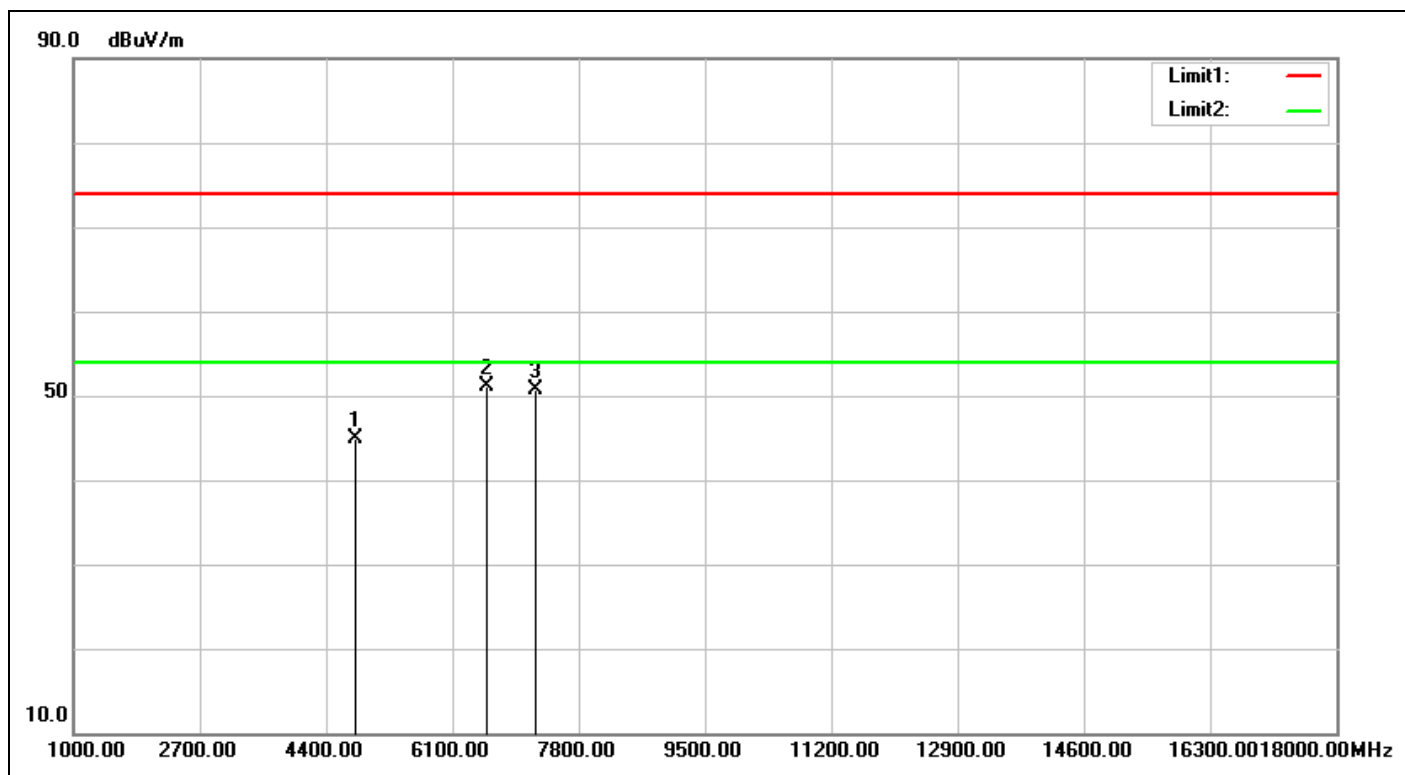
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4960.000	-2.31	49.59	47.28	74.00	-26.72	peak			
2	6576.000	5.47	45.55	51.02	74.00	-22.98	peak	100	96	
3	7440.000	6.28	42.58	48.86	74.00	-25.14	peak			



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:13:32</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2402-TX</b>		
<b>Remark:</b>			

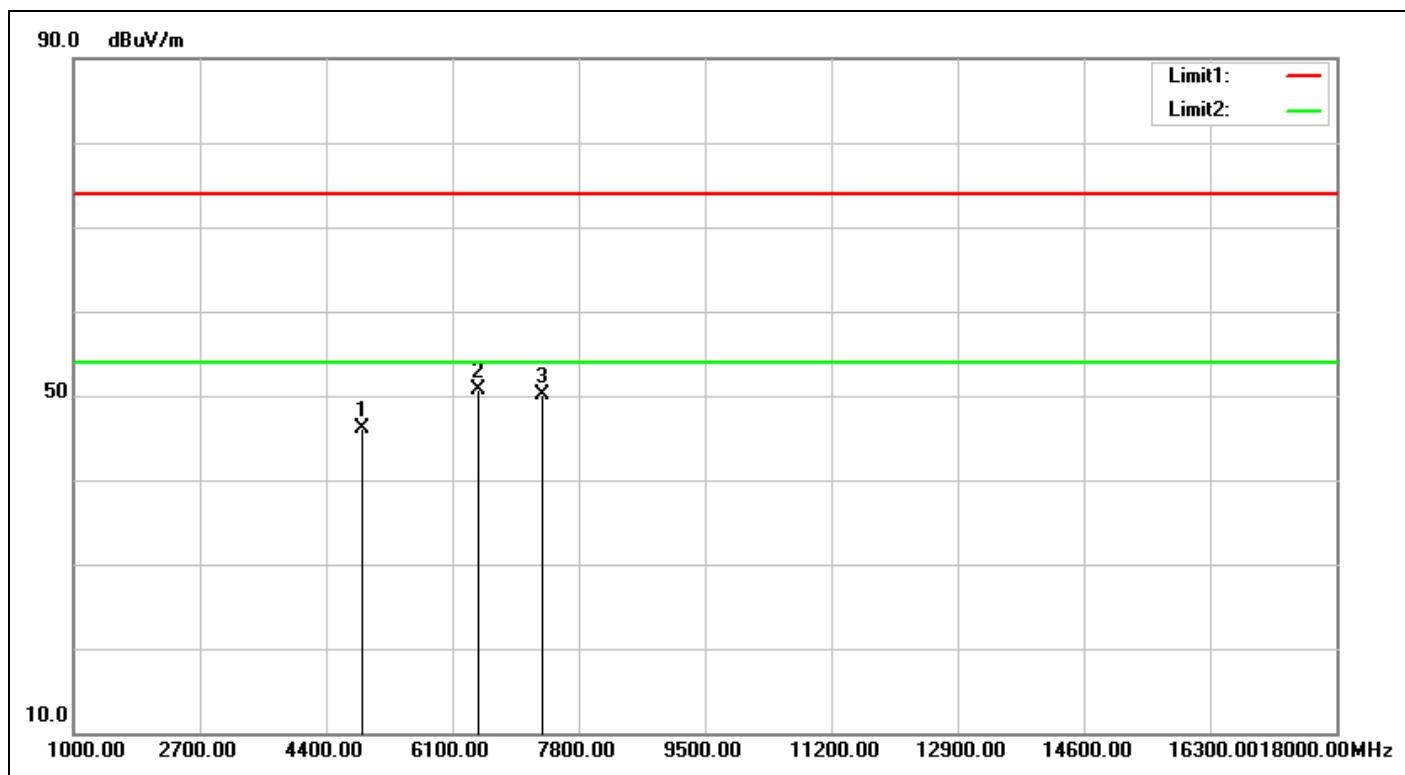
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1	4804.000	-2.66	48.30	45.64	74.00	-28.36	peak			
2	6610.000	5.43	44.98	50.41	74.00	-23.59	peak	100	195	
3	7206.000	5.58	45.31	50.89	74.00	-23.11	peak			





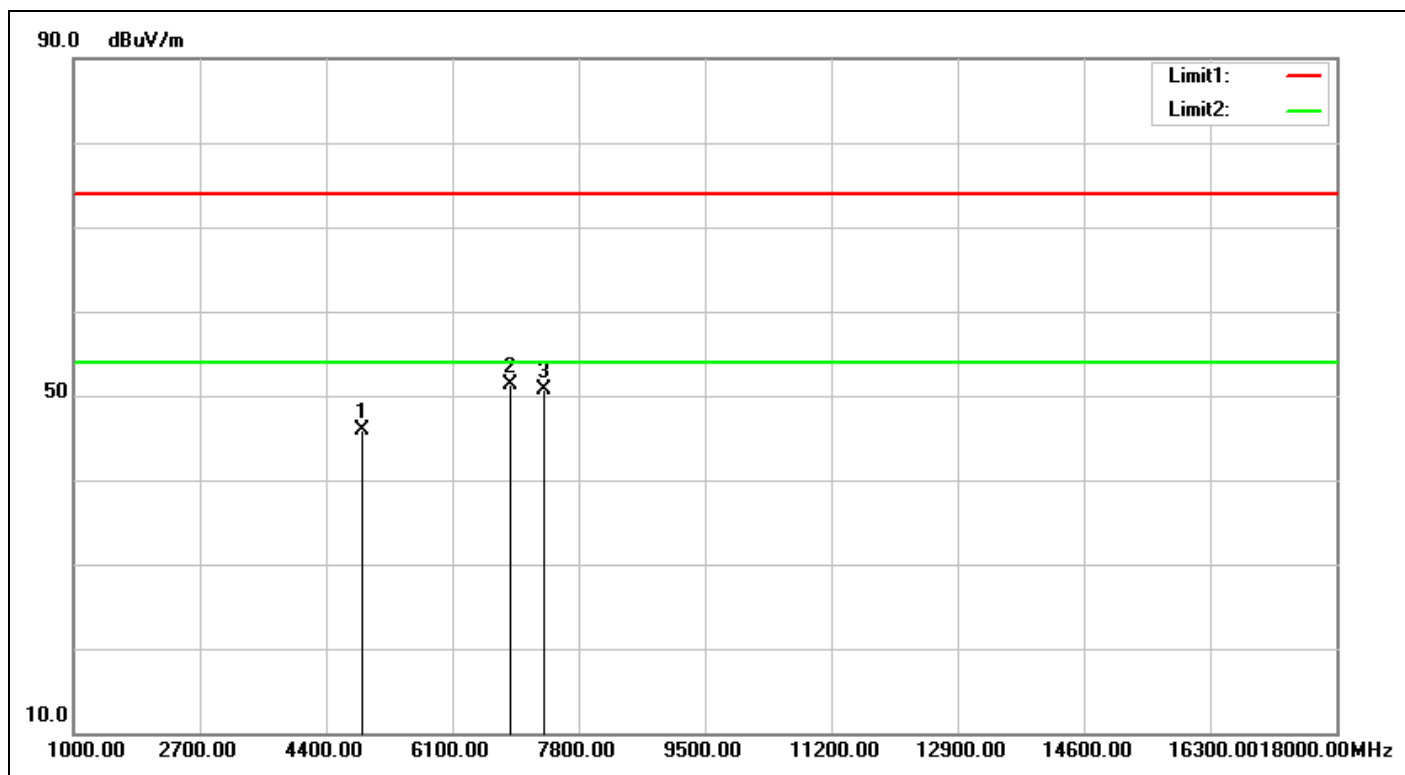
Service No.:	114058593(MH1-AAA)-BT	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/1 21:14:35
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	20.1(°C)/49%
Model No.:	MH1-AAA	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	4804.000	-2.66	47.65	44.99	74.00	-29.01	peak			
2	6559.000	5.49	45.68	51.17	74.00	-22.83	peak	100	44	
3	7206.000	5.58	45.14	50.72	74.00	-23.28	peak			



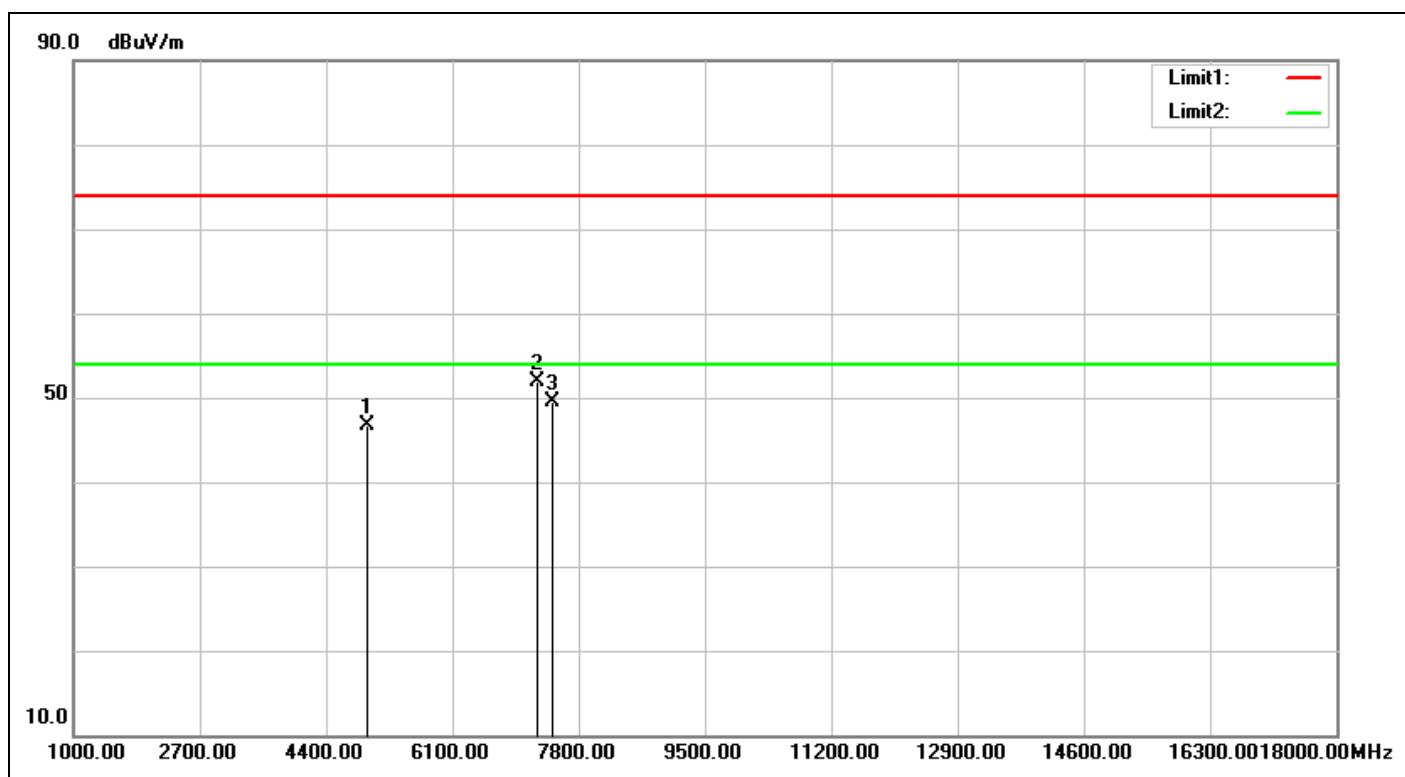
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<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:16:53</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2441-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4882.000	-2.48	48.60	46.12	74.00	-27.88	peak			
2	6457.000	5.40	45.25	50.65	74.00	-23.35	peak	100	45	
3	7323.000	5.93	44.23	50.16	74.00	-23.84	peak			



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:17:56</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2441-TX</b>		
<b>Remark:</b>			

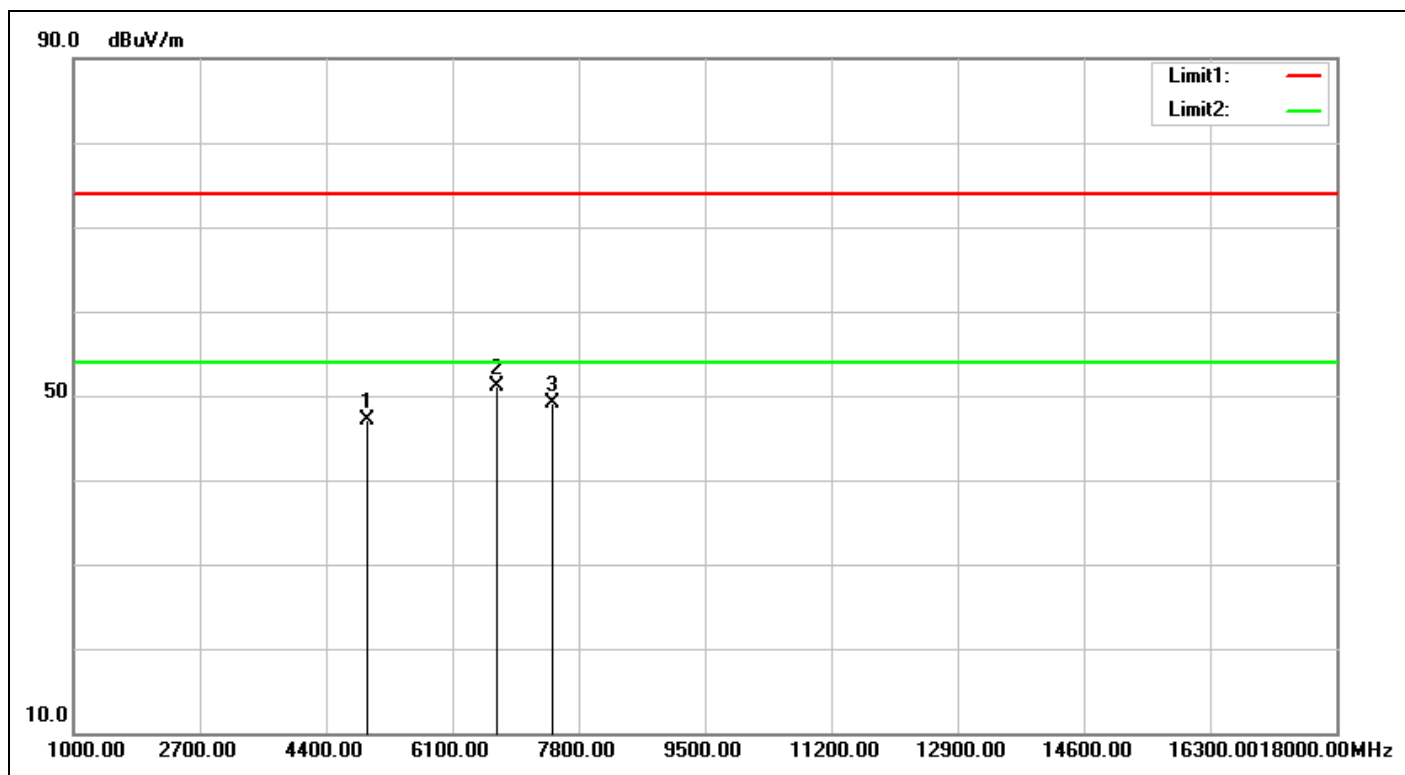
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4882.000	-2.48	48.43	45.95	74.00	-28.05	peak			
2	6882.000	5.11	46.20	51.31	74.00	-22.69	peak	100	47	
3	7323.000	5.93	44.86	50.79	74.00	-23.21	peak			



**Service No.:** 114058593(MH1-AAA)-BT  
**Test Standard:** FCC Above 1G PEAK  
**Test item:** Radiation Emission  
**Applicant:** Molekule  
**Product:** Molekule Home One Air Purifier  
**Model No.:** MH1-AAA  
**Test Mode:** 3DH5-2480-TX  
**Remark:**

**Test Distance:** 3m  
**Ant. Polarization:** Horizontal  
**Test Time:** 2017/3/1 21:20:30  
**Test Rating:** AC 120V/60Hz  
**Temp.(°C)/Hum.(%):** 20.1(°C)/49%  
**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4960.000	-2.31	48.96	46.65	74.00	-27.35	peak			
2	7239.000	5.68	46.23	51.91	74.00	-22.09	peak	100	128	
3	7440.000	6.28	43.23	49.51	74.00	-24.49	peak			



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:21:33</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	4960.000	-2.31	49.47	47.16	74.00	-26.84	peak			
2	6695.000	5.33	45.78	51.11	74.00	-22.89	peak	100	230	
3	7440.000	6.28	42.75	49.03	74.00	-24.97	peak			

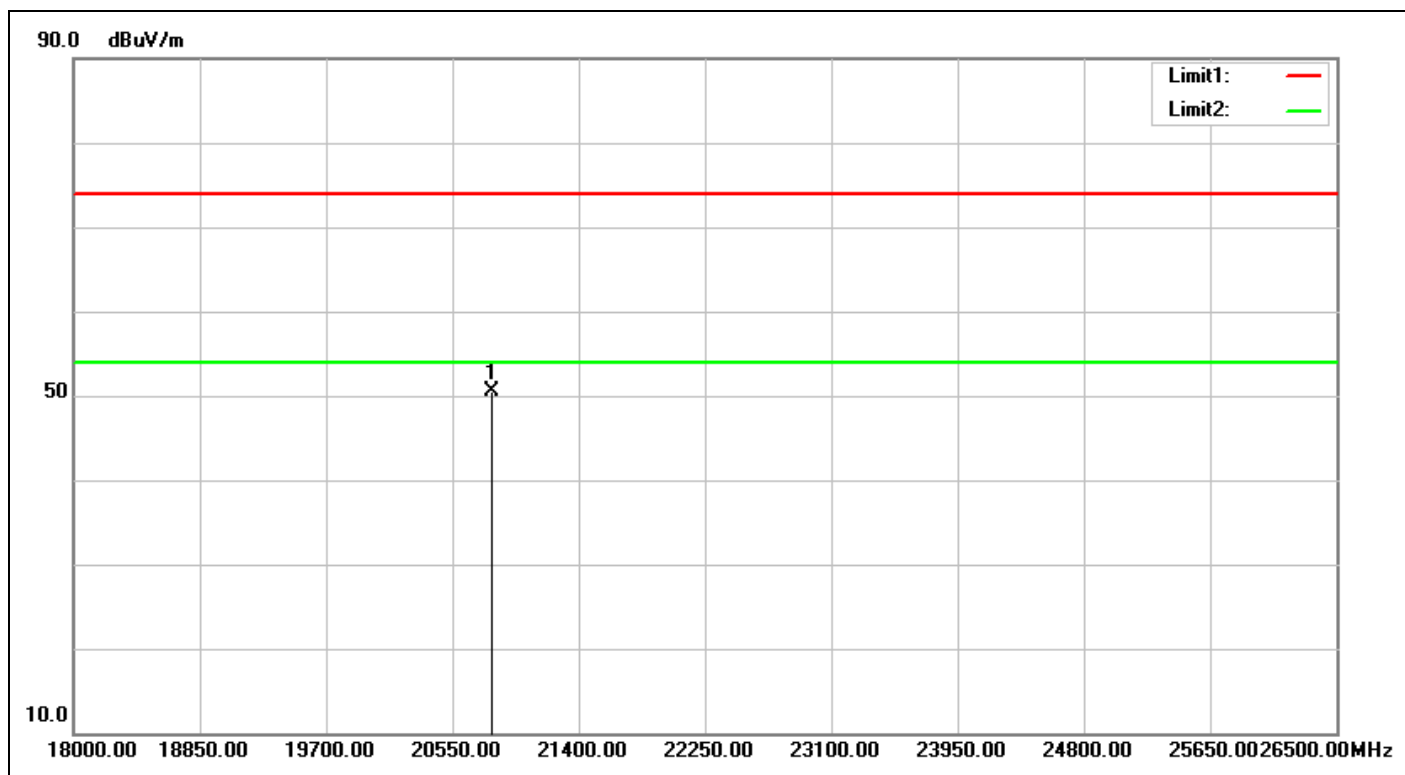
# Spurious Emissions, TX Mode, 18-26G



**TUV Taiwan**

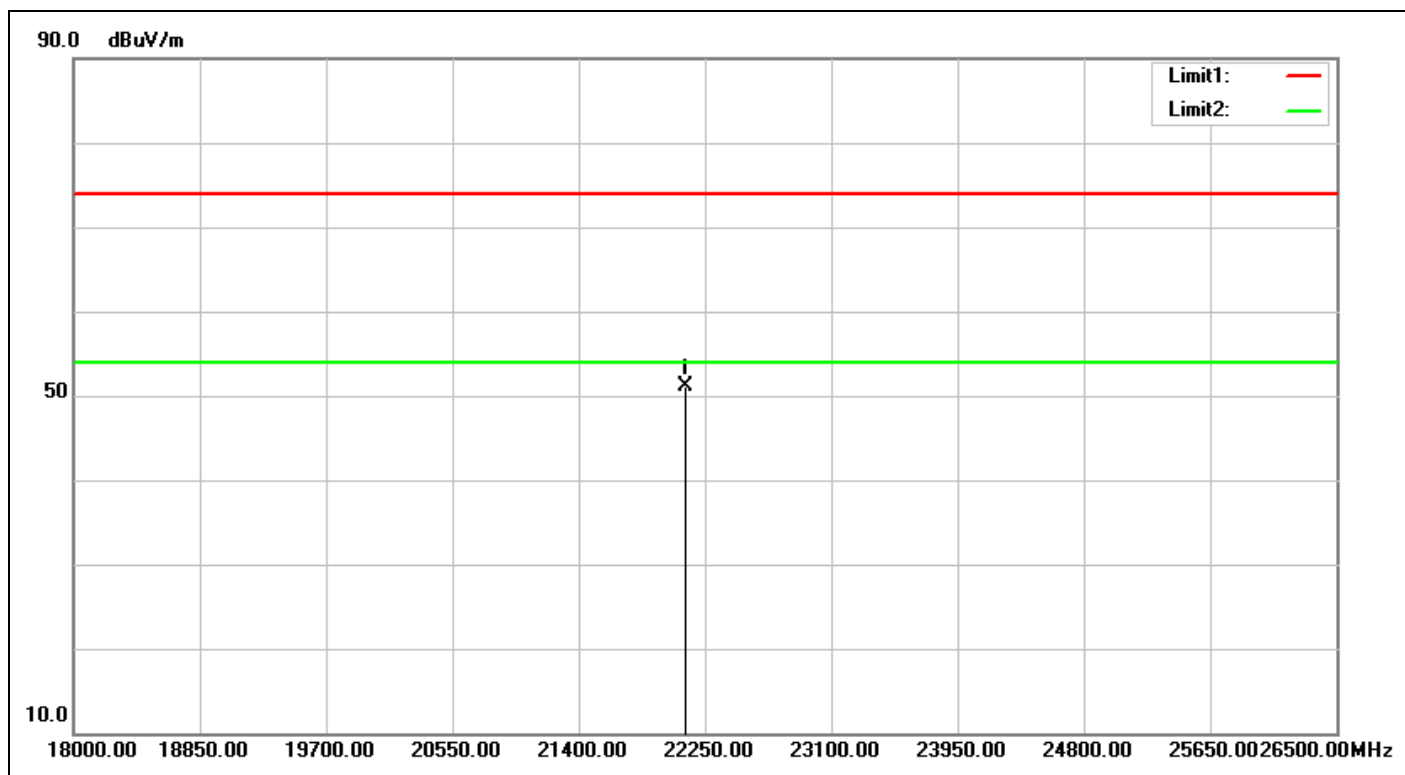
**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

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



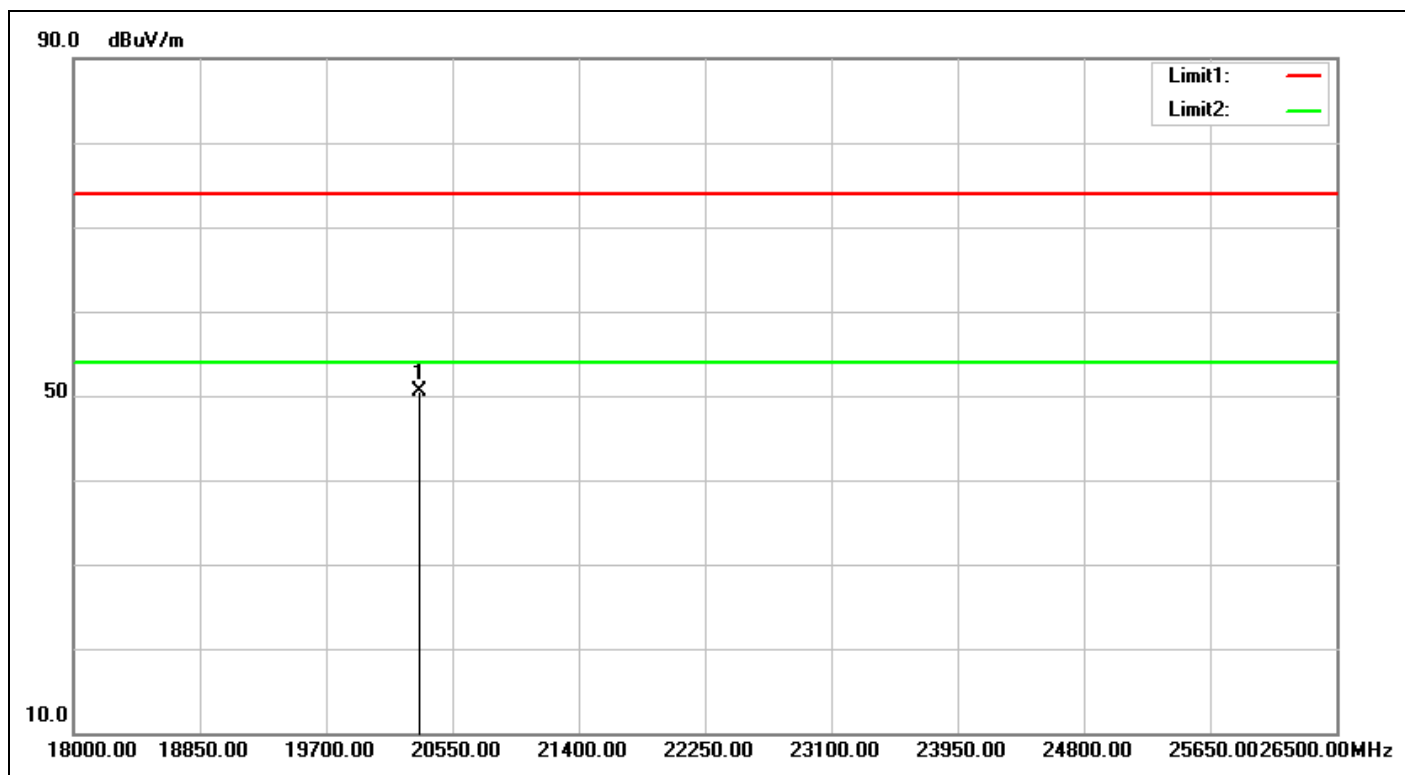
Service No.:	114058593(MH1-AAA)-BT	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/1 21:29:44
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	20.1(°C)/49%
Model No.:	MH1-AAA	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	20813.500	31.86	18.69	50.55	74.00	-23.45	peak		0	



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:29:58</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>1DH5-2402-TX</b>		
<b>Remark:</b>			

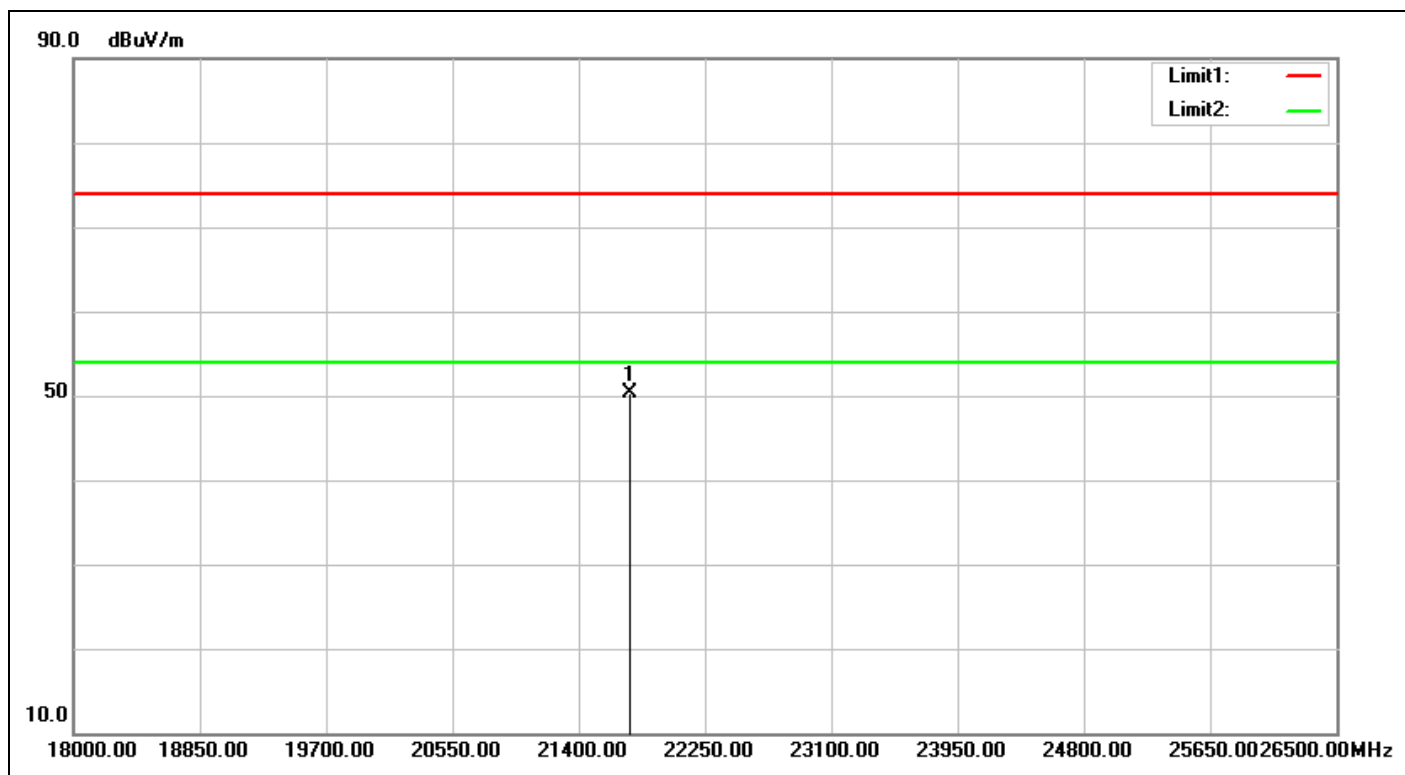
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	22114.000	33.06	17.97	51.03	74.00	-22.97	peak			



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:30:15</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%)</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>1DH5-2441-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	20329.000	31.64	18.88	50.52	74.00	-23.48	peak			





**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 1DH5-2441-TX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Vertical

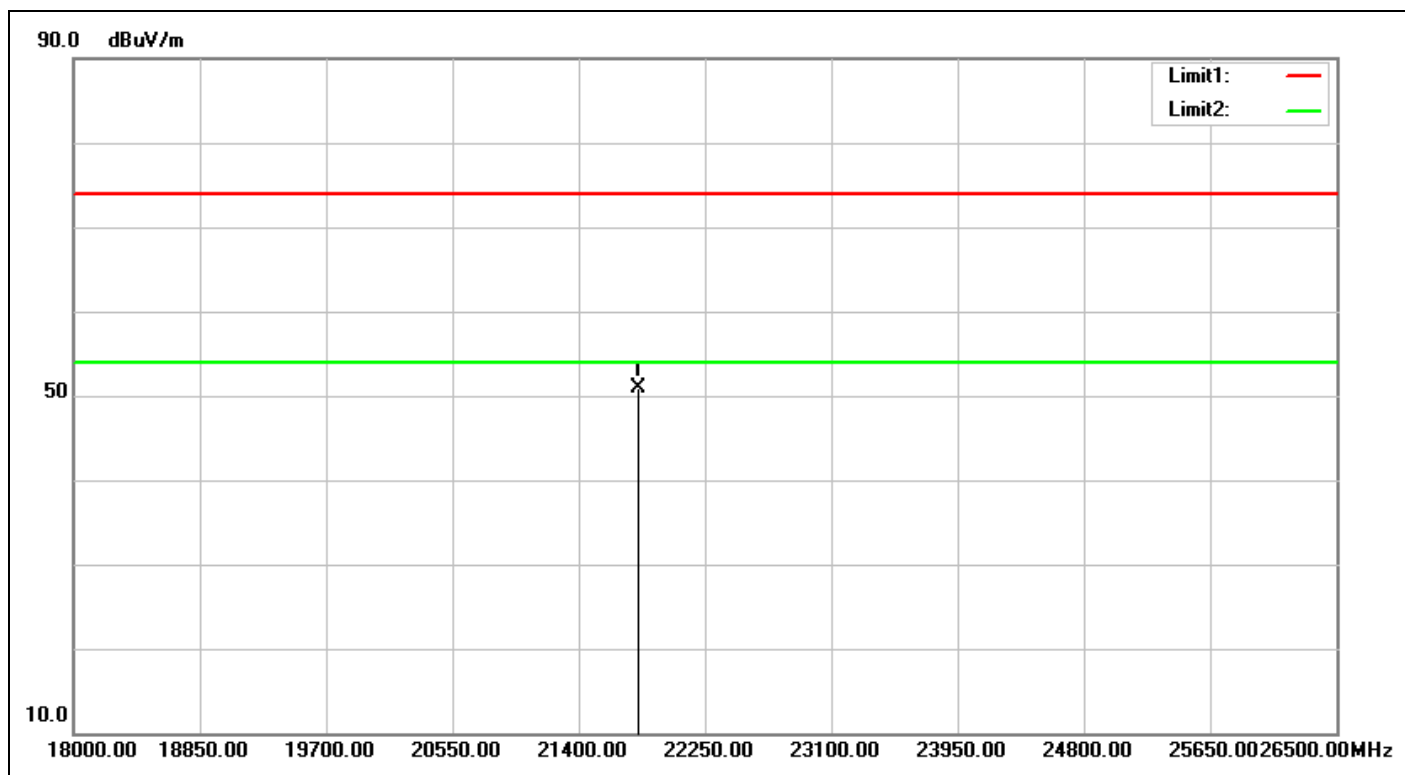
**Test Time:** 2017/3/1 21:30:23

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	21740.000	32.87	17.48	50.35	74.00	-23.65	peak			



**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 1DH5-2480-TX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Horizontal

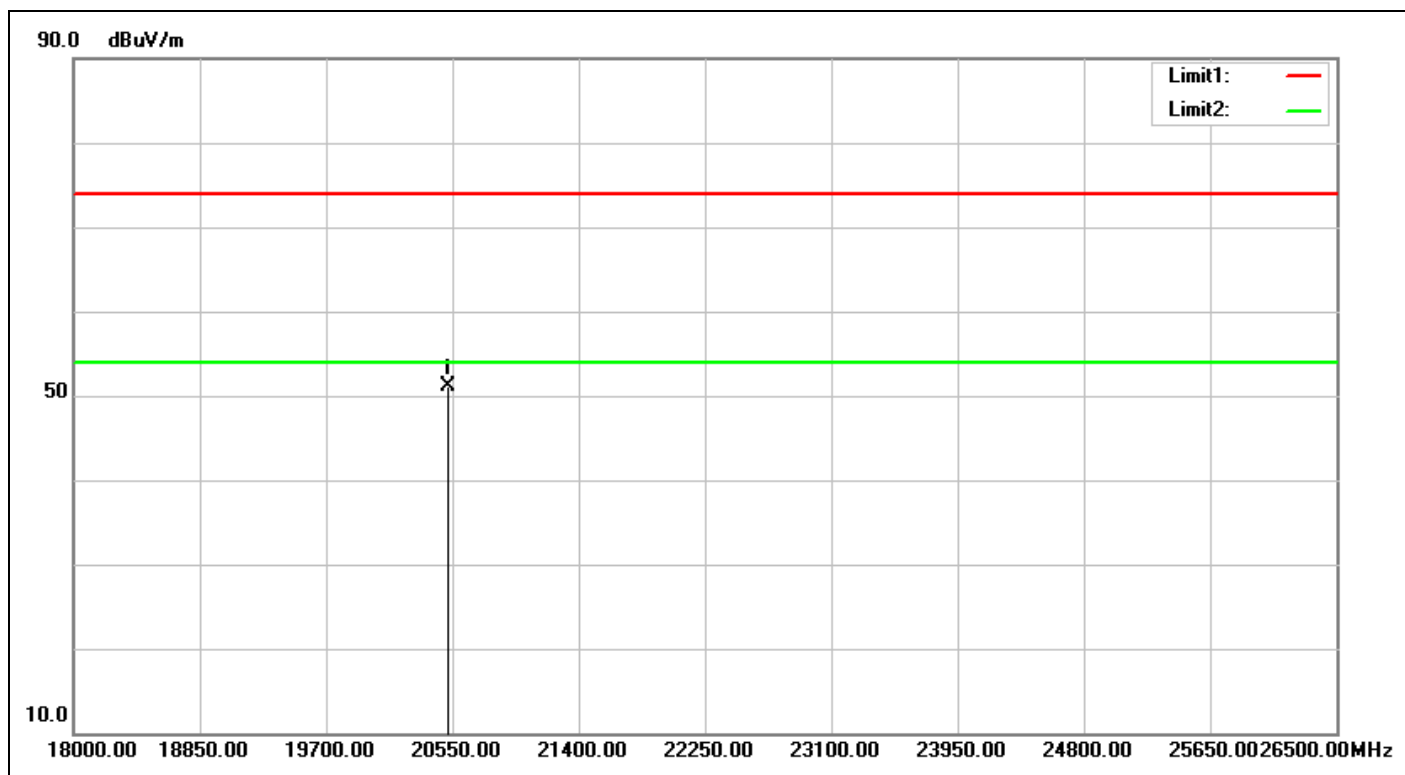
**Test Time:** 2017/3/1 21:30:36

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	21799.500	32.92	18.06	50.98	74.00	-23.02	peak			



**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 1DH5-2480-TX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Vertical

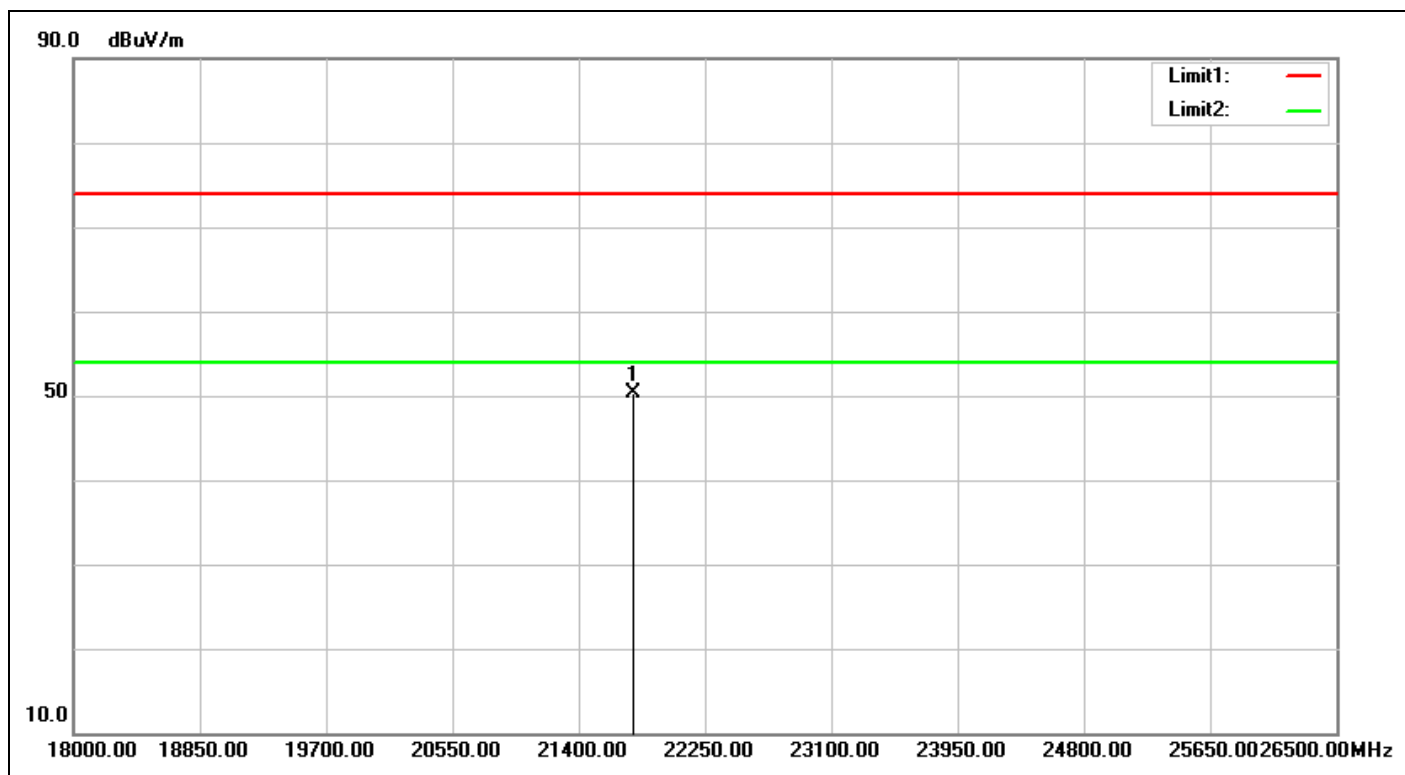
**Test Time:** 2017/3/1 21:30:44

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	20524.500	31.74	19.29	51.03	74.00	-22.97	peak			



**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 3DH5-2402-TX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Horizontal

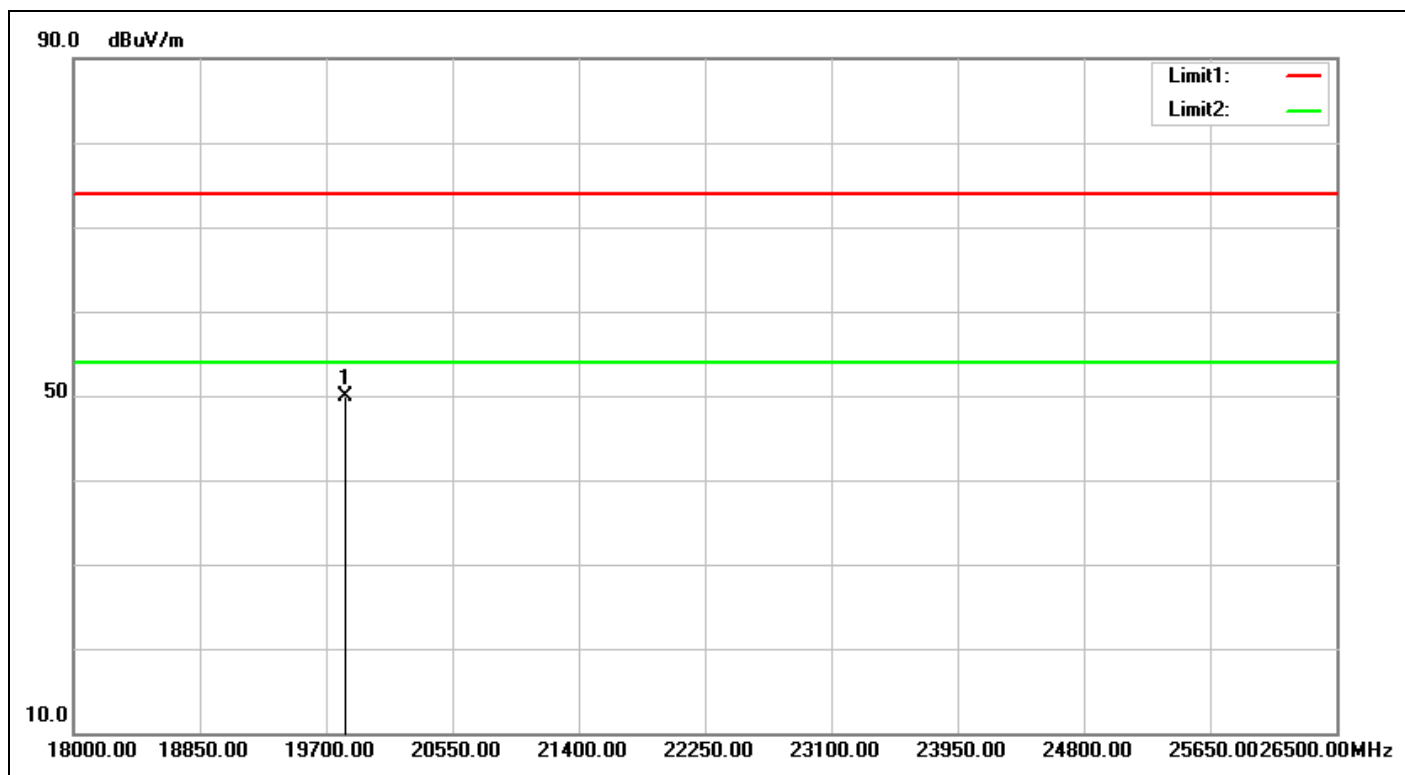
**Test Time:** 2017/3/1 21:30:59

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	21765.500	32.90	17.50	50.40	74.00	-23.60	peak			



**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 3DH5-2402-TX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Vertical

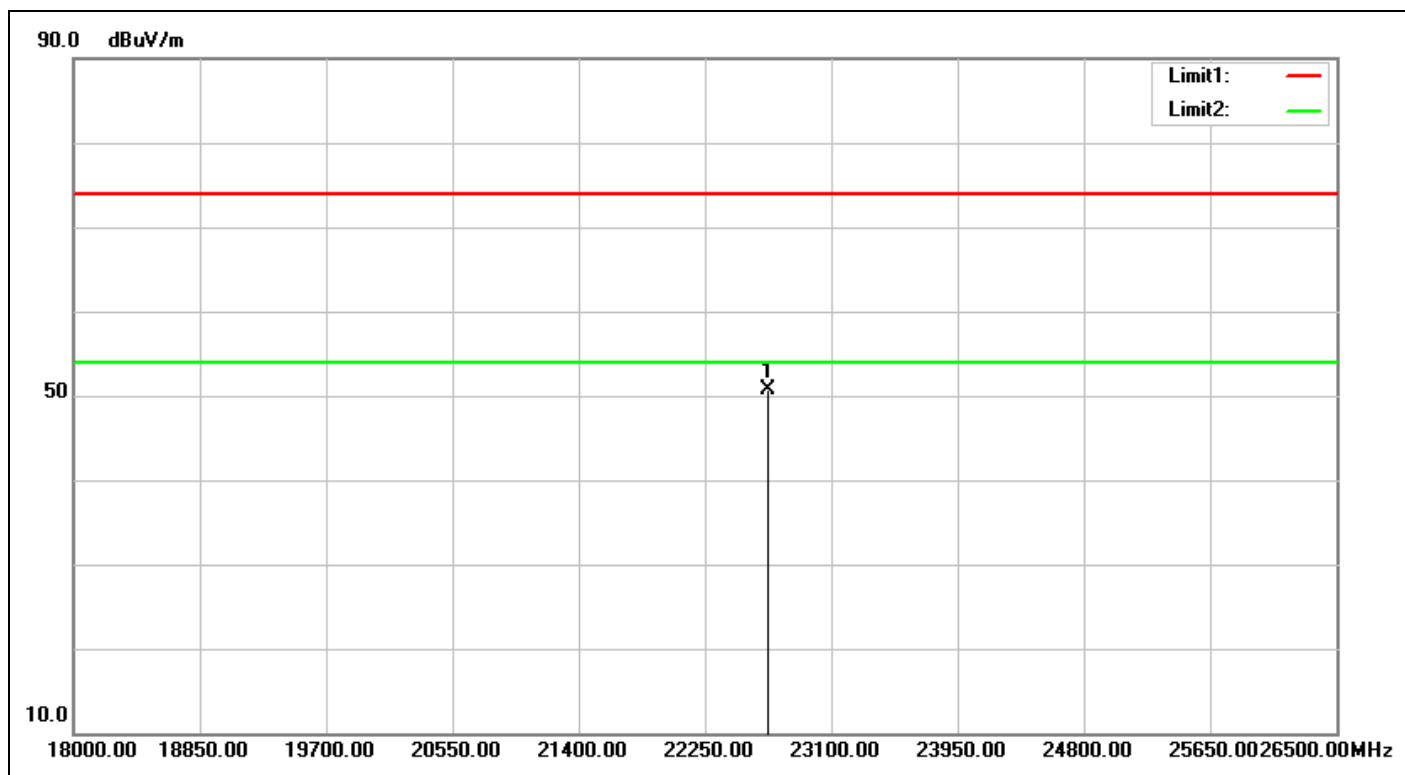
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**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

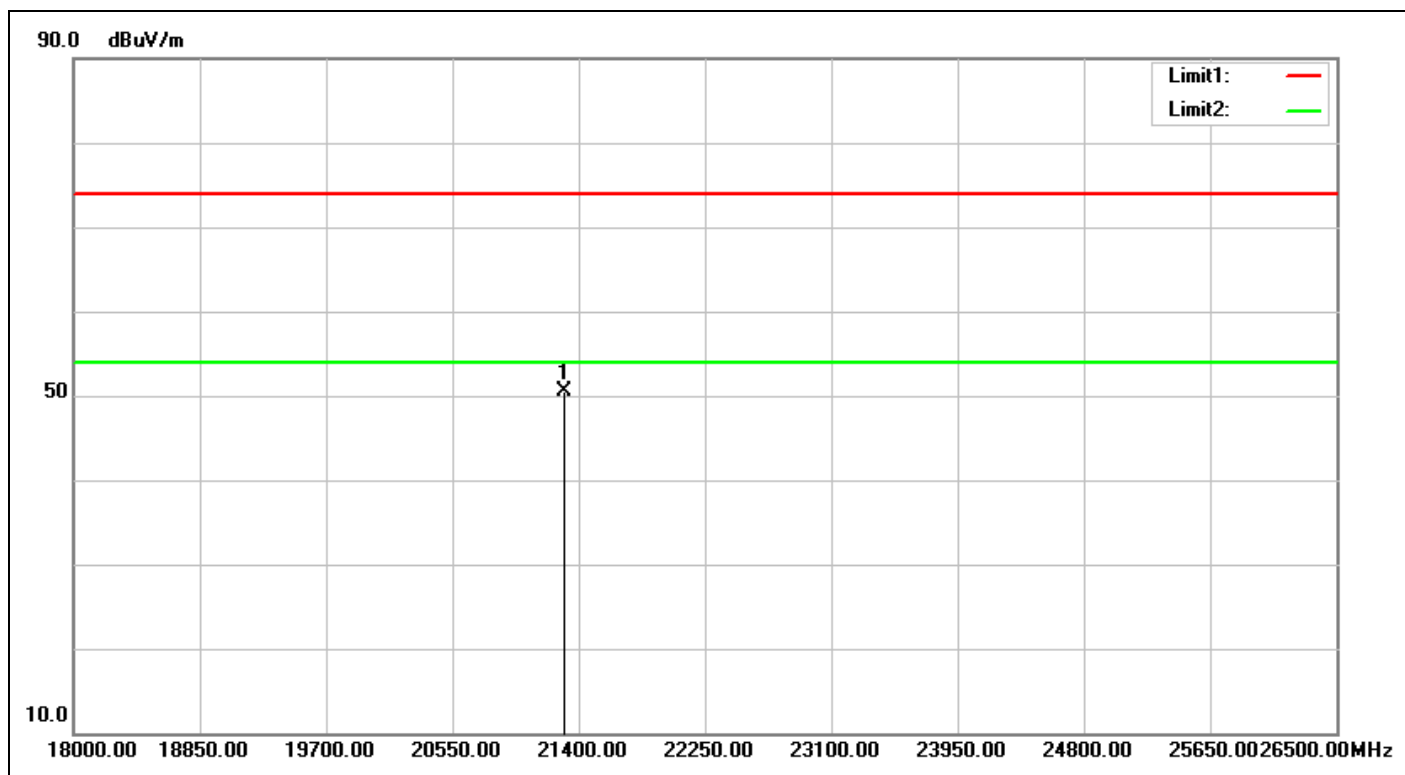
**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	19827.500	31.39	18.61	50.00	74.00	-24.00	peak			



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:31:21</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2441-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	22675.000	32.74	18.04	50.78	74.00	-23.22	peak			



**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 3DH5-2441-TX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Vertical

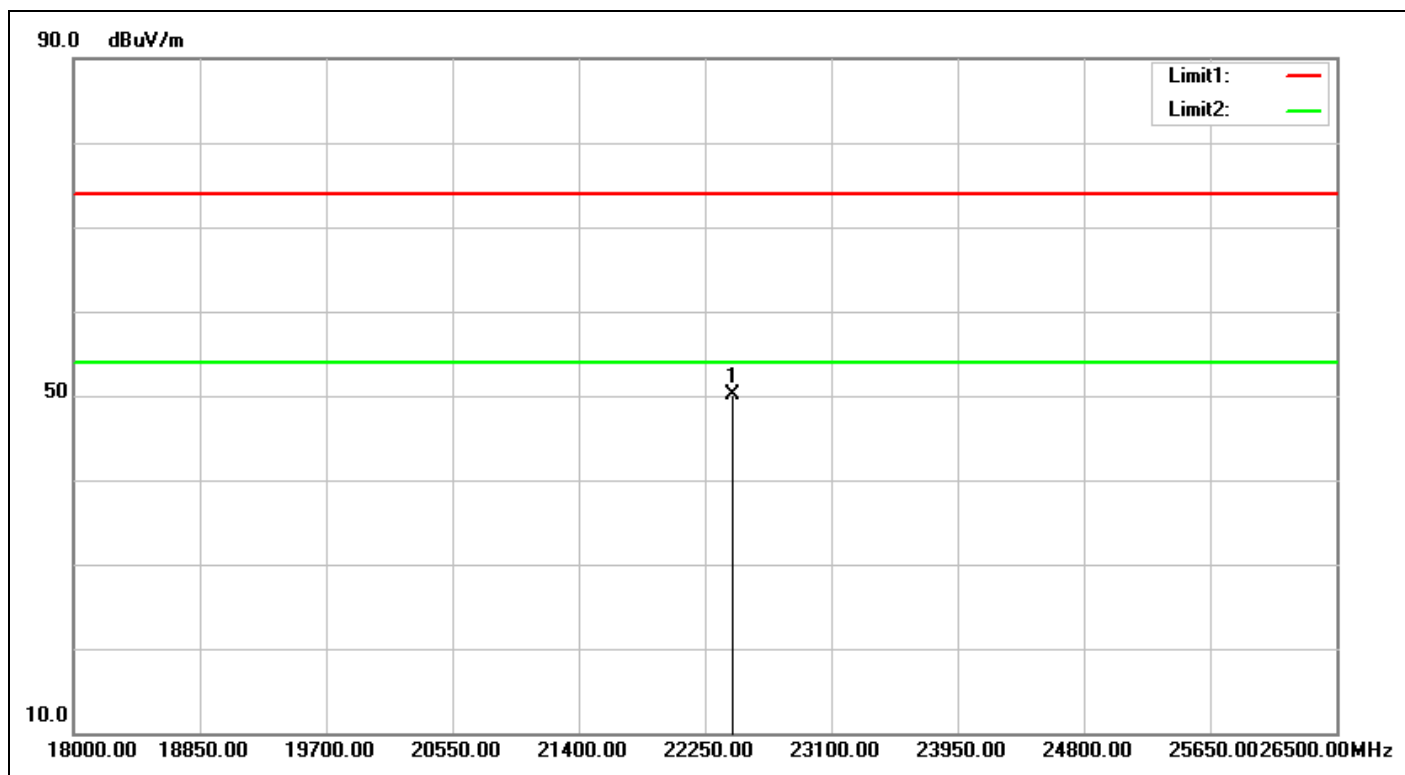
**Test Time:** 2017/3/1 21:31:29

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

**Test Engineer:** George Yang

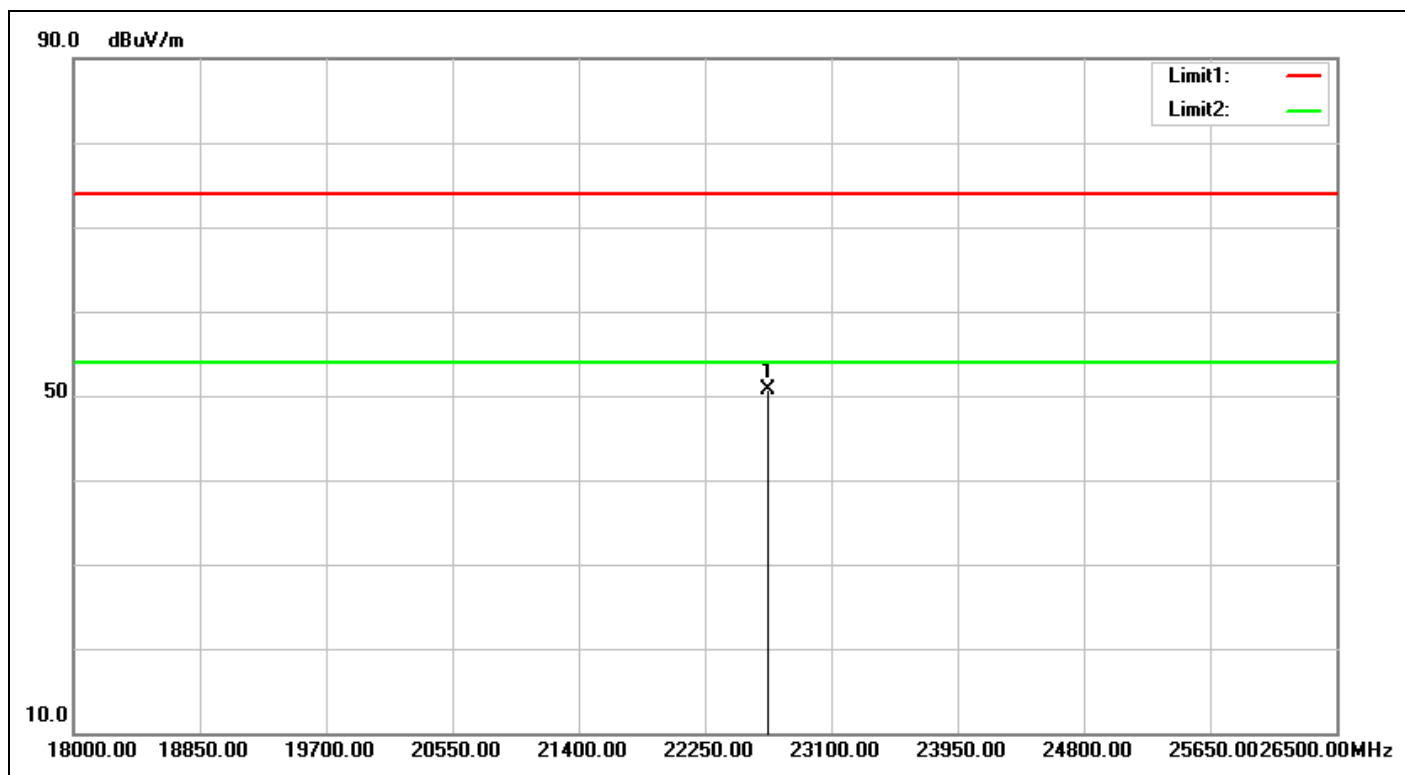
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	21306.500	32.37	18.18	50.55	74.00	-23.45	peak			



<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:31:42</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	22437.000	32.90	17.13	50.03	74.00	-23.97	peak			





<b>Service No.:</b>	<b>114058593(MH1-AAA)-BT</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2017/3/1 21:31:50</b>
<b>Applicant:</b>	<b>Molekule</b>	<b>Test Rating:</b>	<b>AC 120V/60Hz</b>
<b>Product:</b>	<b>Molekule Home One Air Purifier</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>20.1(°C)/49%</b>
<b>Model No.:</b>	<b>MH1-AAA</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>3DH5-2480-TX</b>		
<b>Remark:</b>			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	22675.000	32.74	18.06	50.80	74.00	-23.20	peak			

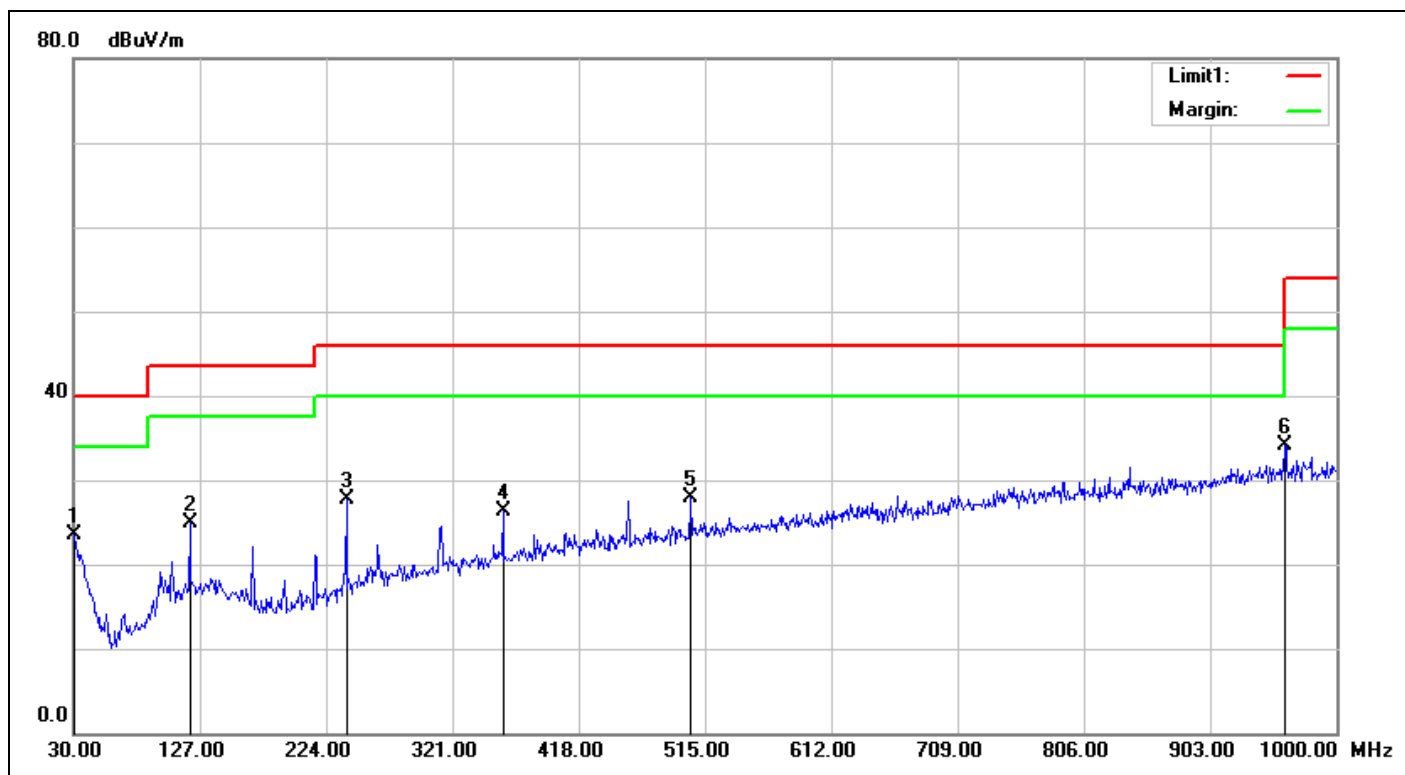
# Spurious Emissions, TX Mode, 30M-1G



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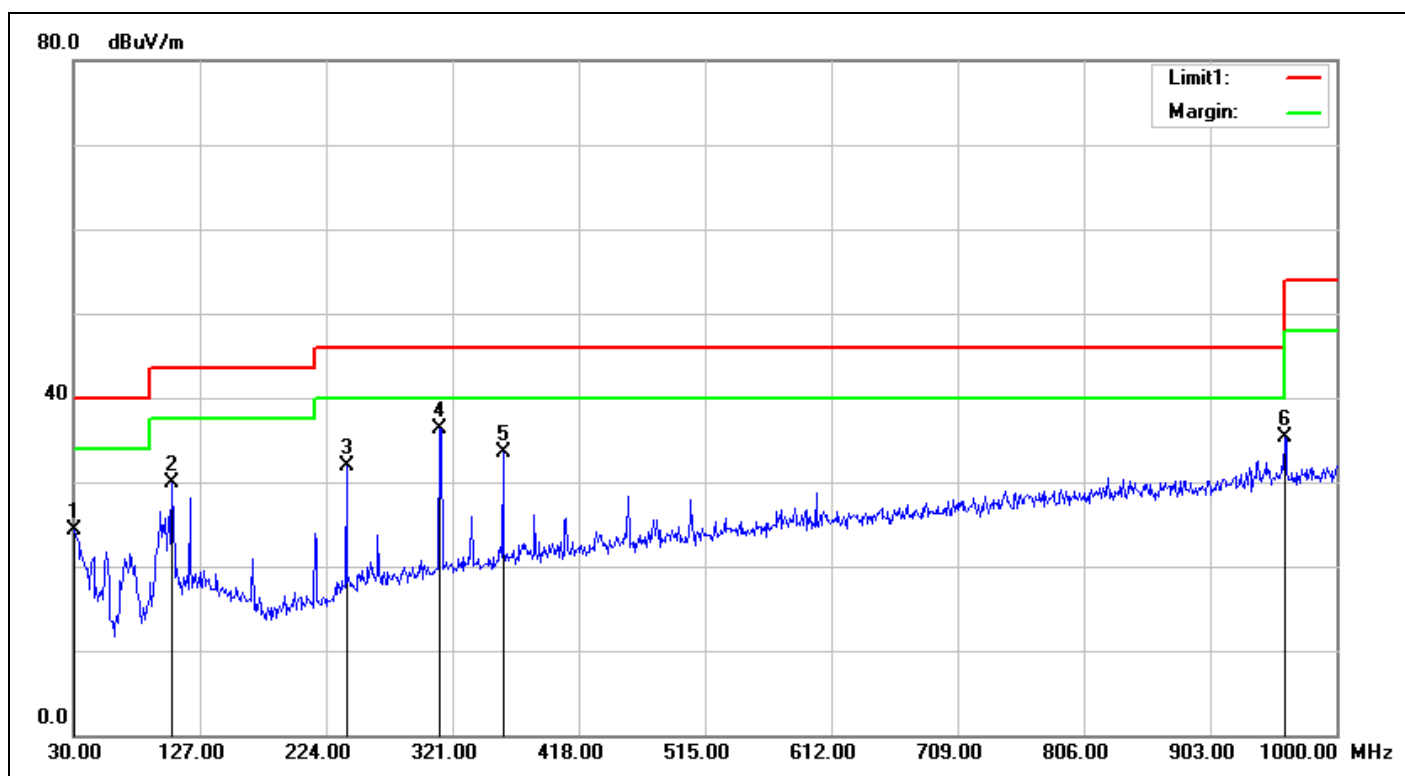
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114058593(MH1-AAA)-BT  
 Test Standard: FCC Class B 3M Radiation  
 Test item: Radiation Emission  
 Applicant: Molekule  
 Product: Molekule Home One Air Purifier  
 Model No.: MH1-AAA  
 Test Mode: 1DH5-2441-TX  
 Remark:

Test Distance: 3m  
 Ant. Polarization: Horizontal  
 Test Time: 2017/3/1 20:28:39  
 Test Rating: AC 120V/60Hz  
 Temp.(°C)/Hum.(%): 20.1(°C)/49%  
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	30.0000	-0.07	23.67	23.60	40.00	-16.40	QP	100	8	
2	119.2400	-7.40	32.26	24.86	43.50	-18.64	QP	100	90	
3	239.5200	-6.73	34.43	27.70	46.00	-18.30	QP	100	134	
4	359.8000	-3.30	29.62	26.32	46.00	-19.68	QP	100	88	
5	504.3300	-1.32	29.29	27.97	46.00	-18.03	QP	100	117	
6	960.2300	5.48	28.53	34.01	54.00	-19.99	QP	100	112	



Service No.: 114058593(MH1-AAA)-BT  
 Test Standard: FCC Class B 3M Radiation  
 Test item: Radiation Emission  
 Applicant: Molekule  
 Product: Molekule Home One Air Purifier  
 Model No.: MH1-AAA  
 Test Mode: 1DH5-2441-TX  
 Remark:

Test Distance: 3m  
 Ant. Polarization: Vertical  
 Test Time: 2017/3/1 20:29:43  
 Test Rating: AC 120V/60Hz  
 Temp.(°C)/Hum.(%): 20.1(°C)/49%  
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	30.0000	-0.07	24.44	24.37	40.00	-15.63	QP	100	99	
2	105.6600	-8.75	38.73	29.98	43.50	-13.52	QP	100	12	
3	239.5200	-6.73	38.56	31.83	46.00	-14.17	QP	100	81	
4	311.3000	-4.24	40.64	36.40	46.00	-9.60	QP	100	153	
5	359.8000	-3.30	36.83	33.53	46.00	-12.47	QP	100	131	
6	960.2300	5.48	29.80	35.28	54.00	-18.72	QP	100	203	

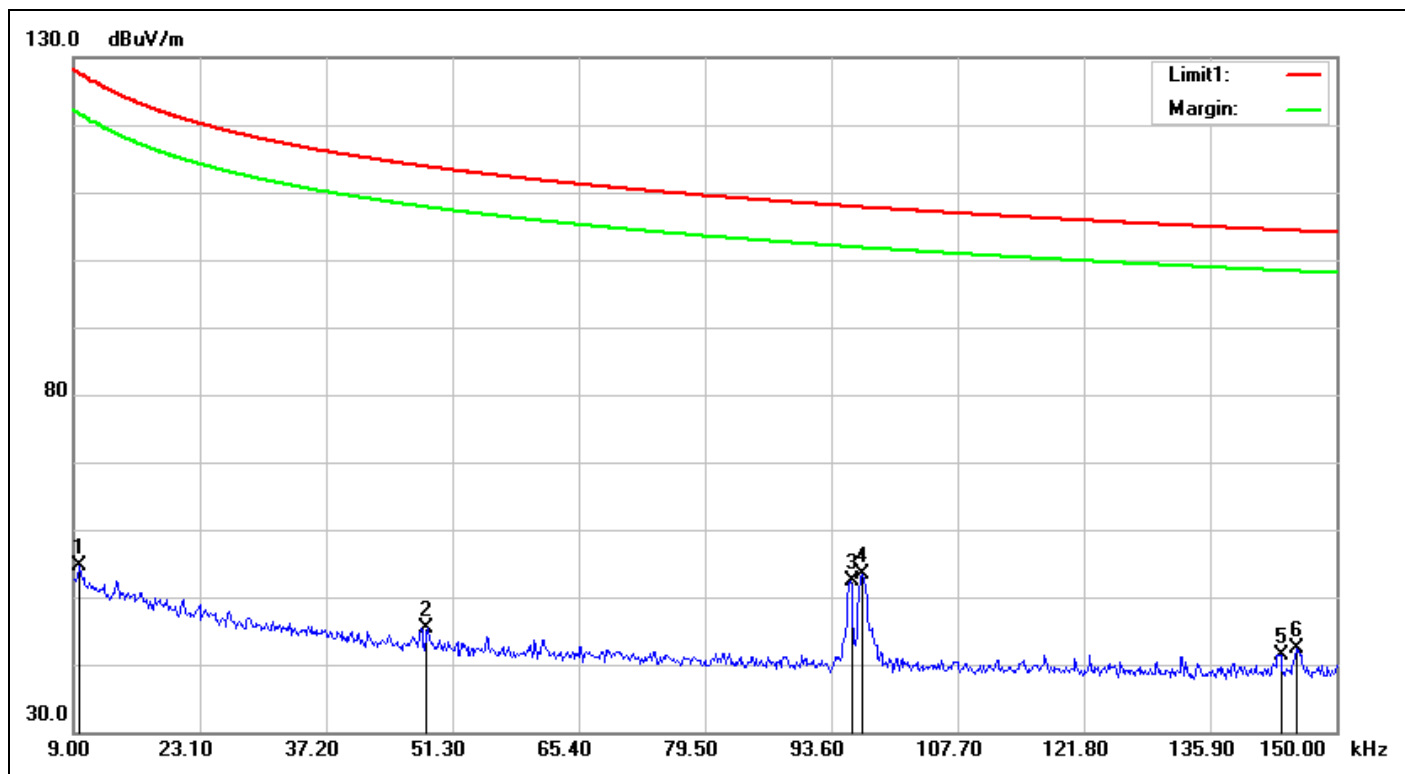
# Spurious Emissions, TX Mode, 9K-30M



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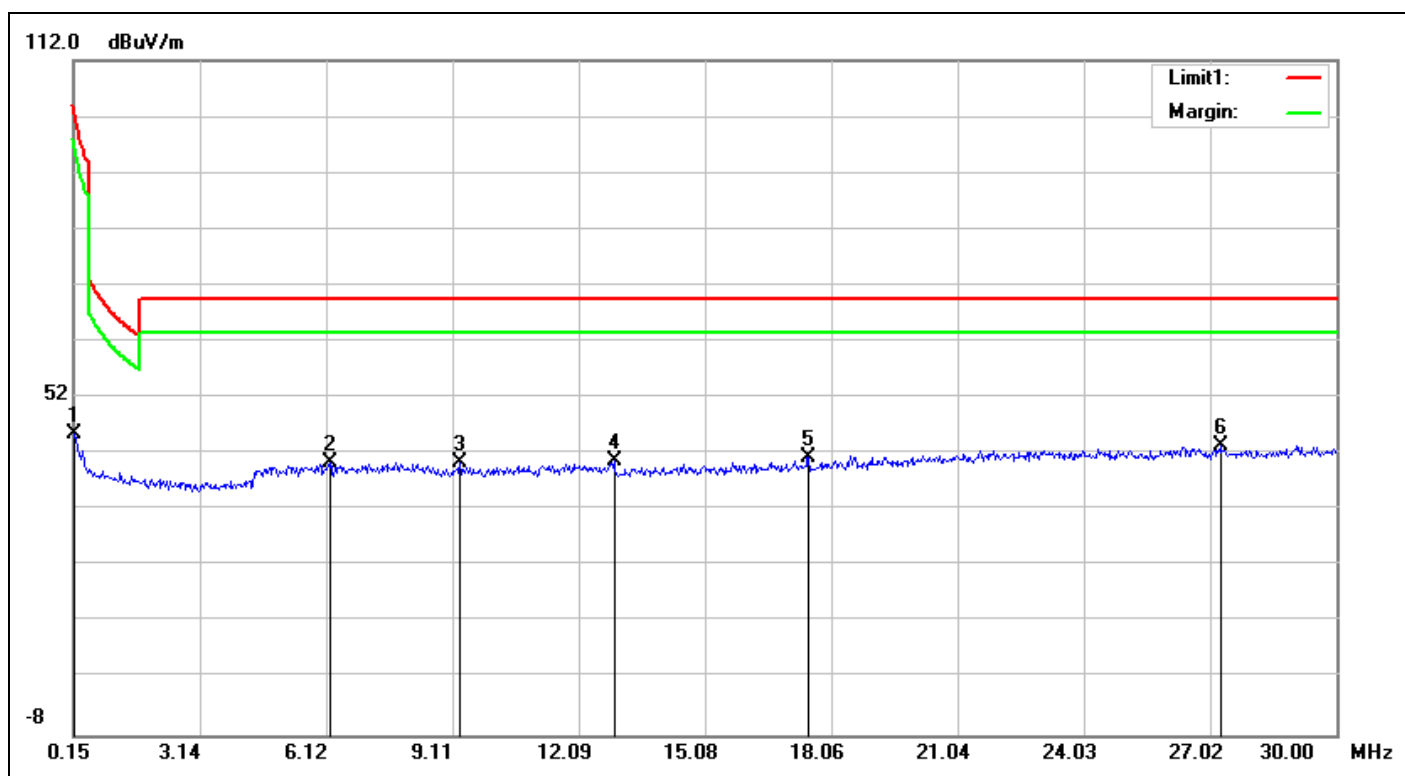
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114058593(MH1-AAA)-BT  
 Test Standard: FCC15.209\_9k-1G\_3m  
 Test item: Radiation Emission  
 Applicant: Molekule  
 Product: Molekule Home One Air Purifier  
 Model No.: MH1-AAA  
 Test Mode: 1DH5-2441-TX  
 Remark:

Test Distance: 3m  
 Ant. Polarization:  
 Test Time: 2017/3/6 21:03:04  
 Test Rating: AC 120V/60Hz  
 Temp.(°C)/Hum.(%): 21.2(°C)/64%  
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.0097	20.13	34.50	54.63	127.66	-73.03	QP	100	0	
2	0.0483	19.30	26.16	45.46	113.80	-68.34	QP	100	205	
3	0.0957	18.87	33.51	52.38	107.90	-55.52	QP	100	33	
4	0.0969	18.86	34.44	53.30	107.79	-54.49	QP	100	197	
5	0.1437	18.81	22.69	41.50	104.39	-62.89	QP	100	220	
6	0.1456	18.80	23.68	42.48	104.27	-61.79	QP	100	284	



Service No.: 114058593(MH1-AAA)-BT  
 Test Standard: FCC15.209\_9k-1G\_3m  
 Test item: Radiation Emission  
 Applicant: Molekule  
 Product: Molekule Home One Air Purifier  
 Model No.: MH1-AAA  
 Test Mode: 1DH5-2441-TX  
 Remark:

Test Distance: 3m  
 Ant. Polarization:  
 Test Time: 2017/3/6 21:09:11  
 Test Rating: AC 120V/60Hz  
 Temp.(°C)/Hum.(%): 21.2(°C)/64%  
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.1799	18.77	26.79	45.56	102.47	-56.91	QP	100	321	
2	6.2096	19.79	20.73	40.52	69.50	-28.98	QP	100	352	
3	9.2841	20.28	20.11	40.39	69.50	-29.11	QP	100	33	
4	12.9258	20.73	20.02	40.75	69.50	-28.75	QP	100	81	
5	17.5227	21.27	20.16	41.43	69.50	-28.07	QP	100	171	
6	27.2538	22.08	21.39	43.47	69.50	-26.03	QP	100	51	

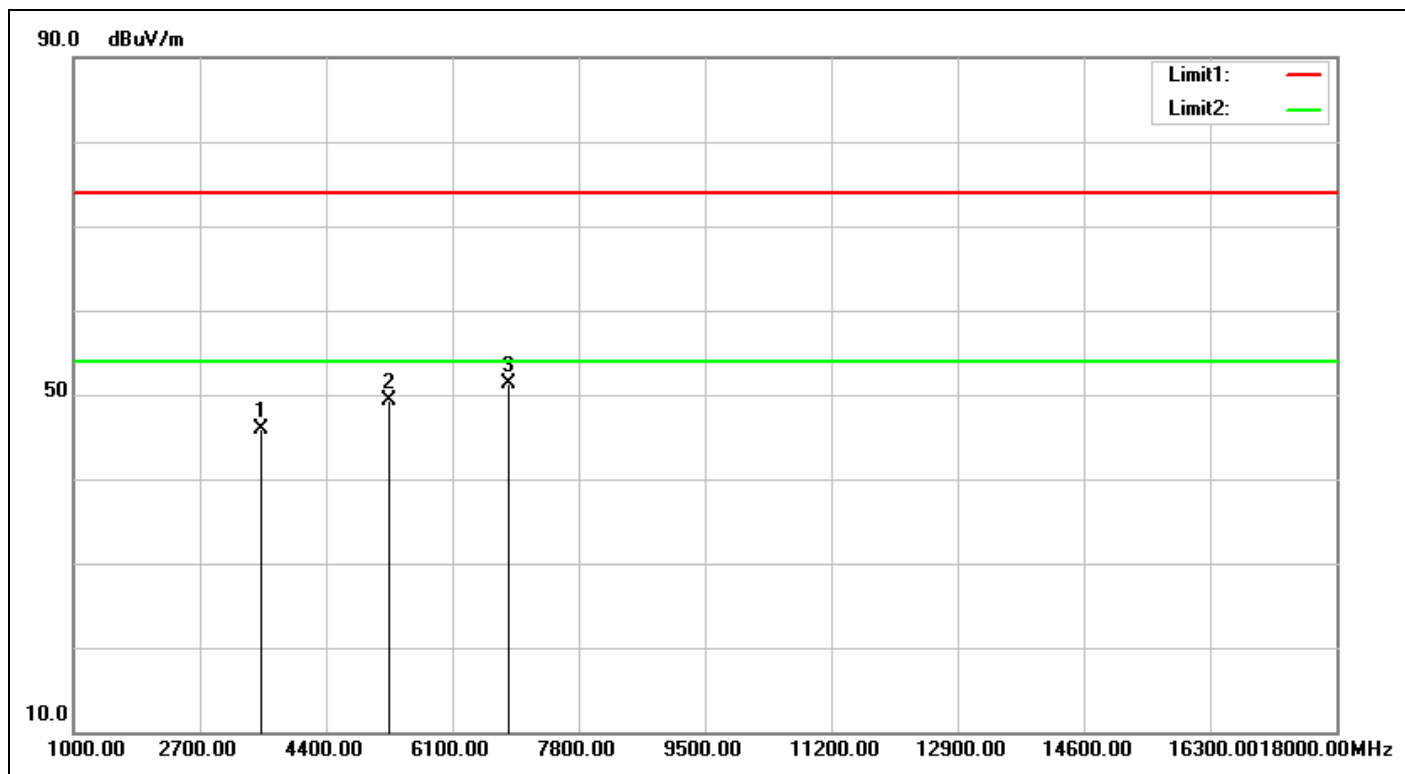
# Spurious Emissions, RX Mode, 1-18G



**TUV Taiwan**

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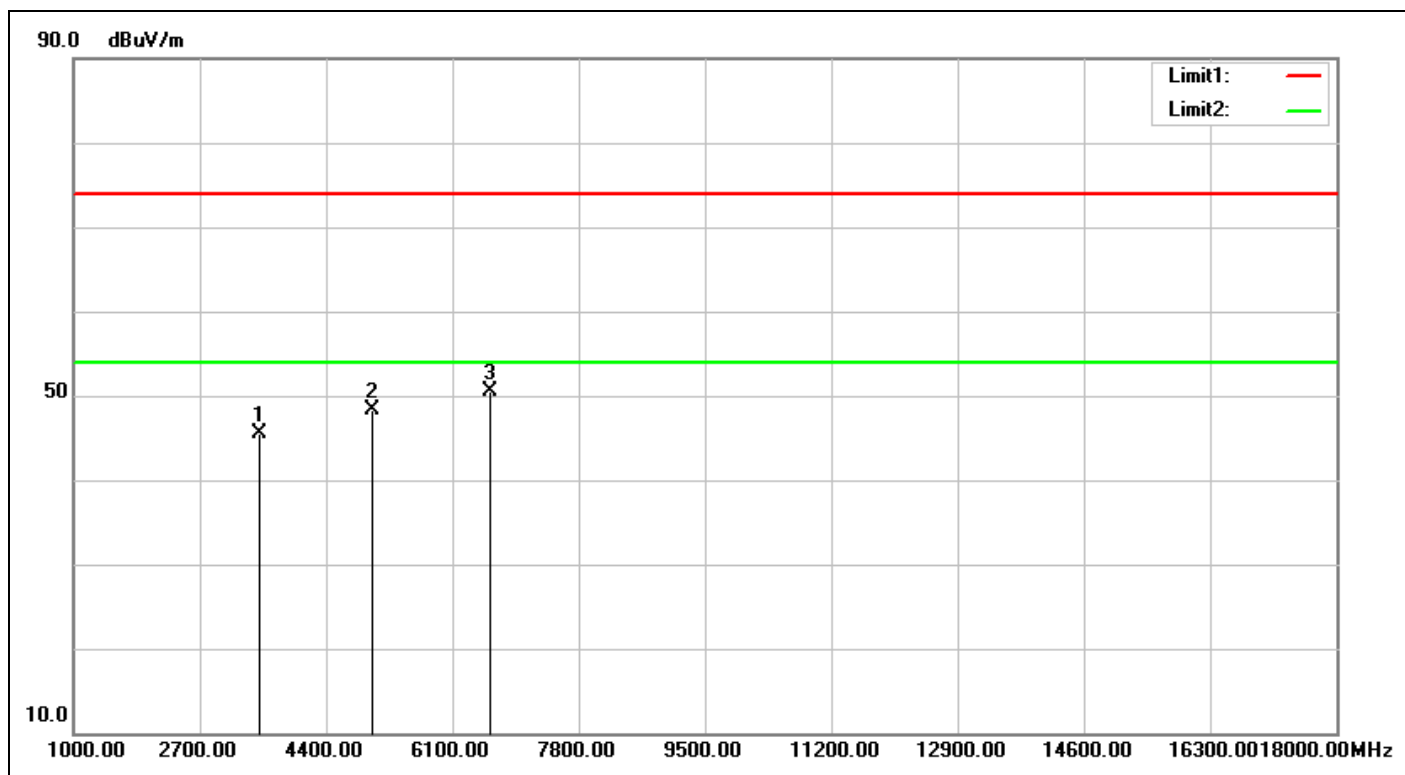
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114058593(MH1-AAA)-BT  
 Test Standard: FCC Above 1G PEAK  
 Test item: Radiation Emission  
 Applicant: Molekule  
 Product: Molekule Home One Air Purifier  
 Model No.: MH1-AAA  
 Test Mode: 1DH5-2441-RX  
 Remark:

Test Distance: 3m  
 Ant. Polarization: Horizontal  
 Test Time: 2017/3/1 21:24:27  
 Test Rating: AC 120V/60Hz  
 Temp.(°C)/Hum.(%): 20.1(°C)/49%  
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	3533.000	-5.85	51.68	45.83	74.00	-28.17	peak	100	26	
2	5250.000	-0.89	50.25	49.36	74.00	-24.64	peak	100	76	
3	6865.000	5.12	46.15	51.27	74.00	-22.73	peak	100	0	



Service No.:	114058593(MH1-AAA)-BT	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2017/3/1 21:25:30
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	20.1(°C)/49%
Model No.:	MH1-AAA	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	3499.000	-5.88	51.36	45.48	74.00	-28.52	peak	100	11	
2	5012.000	-2.15	50.36	48.21	74.00	-25.79	peak	100	141	
3	6610.000	5.43	45.05	50.48	74.00	-23.52	peak	100	19	

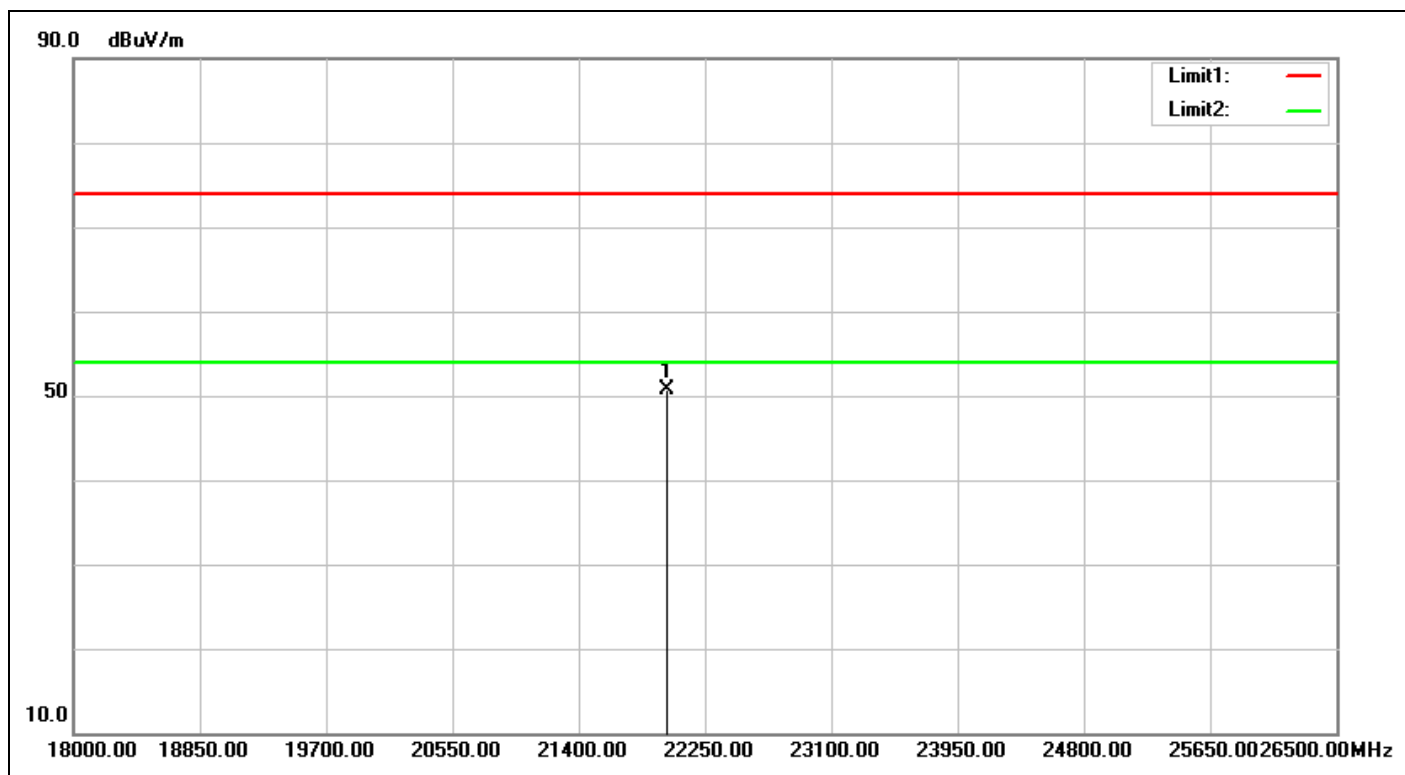
# Spurious Emissions, RX Mode, 18-26G



**TUV Taiwan**

**11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105**

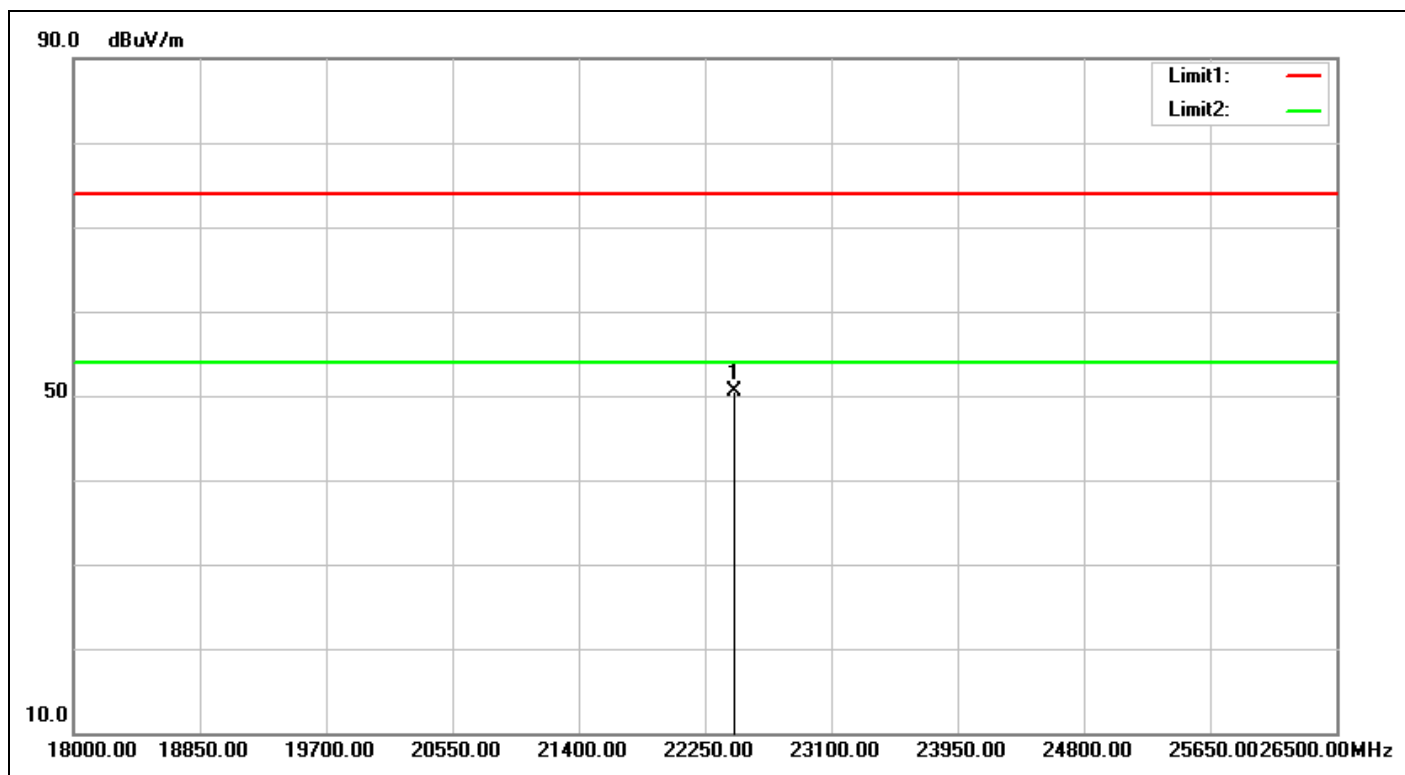
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114058593(MH1-AAA)-BT	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2017/3/1 21:32:07
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	20.1(°C)/49%
Model No.:	MH1-AAA	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	21995.000	33.11	17.57	50.68	74.00	-23.32	peak			





**Service No.:** 114058593(MH1-AAA)-BT

**Test Standard:** FCC Above 1G PEAK

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** 1DH5-2441-RX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:** Vertical

**Test Time:** 2017/3/1 21:32:15

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 20.1(°C)/49%

**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	22445.500	32.89	17.69	50.58	74.00	-23.42	peak			

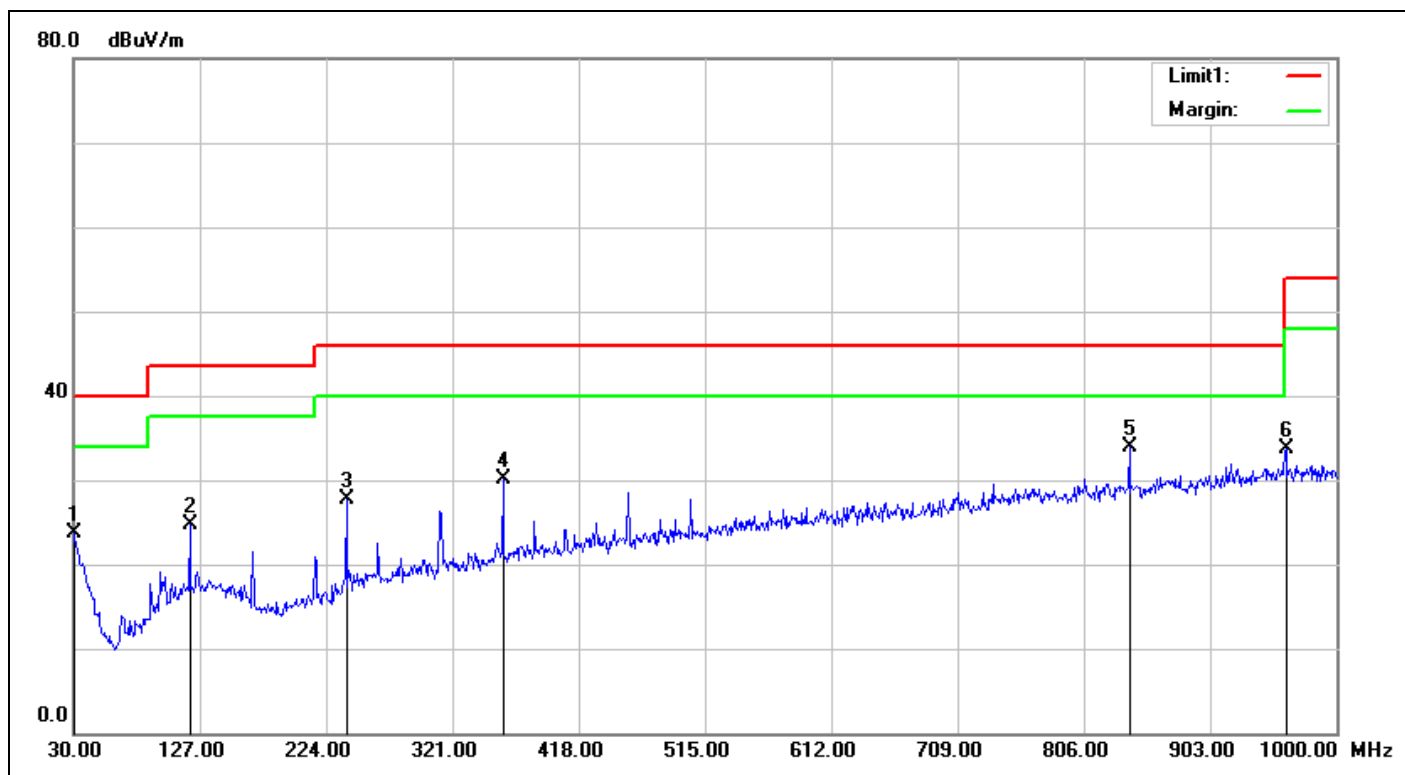
# Spurious Emissions, RX Mode, 30M-1G



**TUV Taiwan**

11F., No.758, Sec.4 Bade Road, Songshan Dist, Taipei City 105

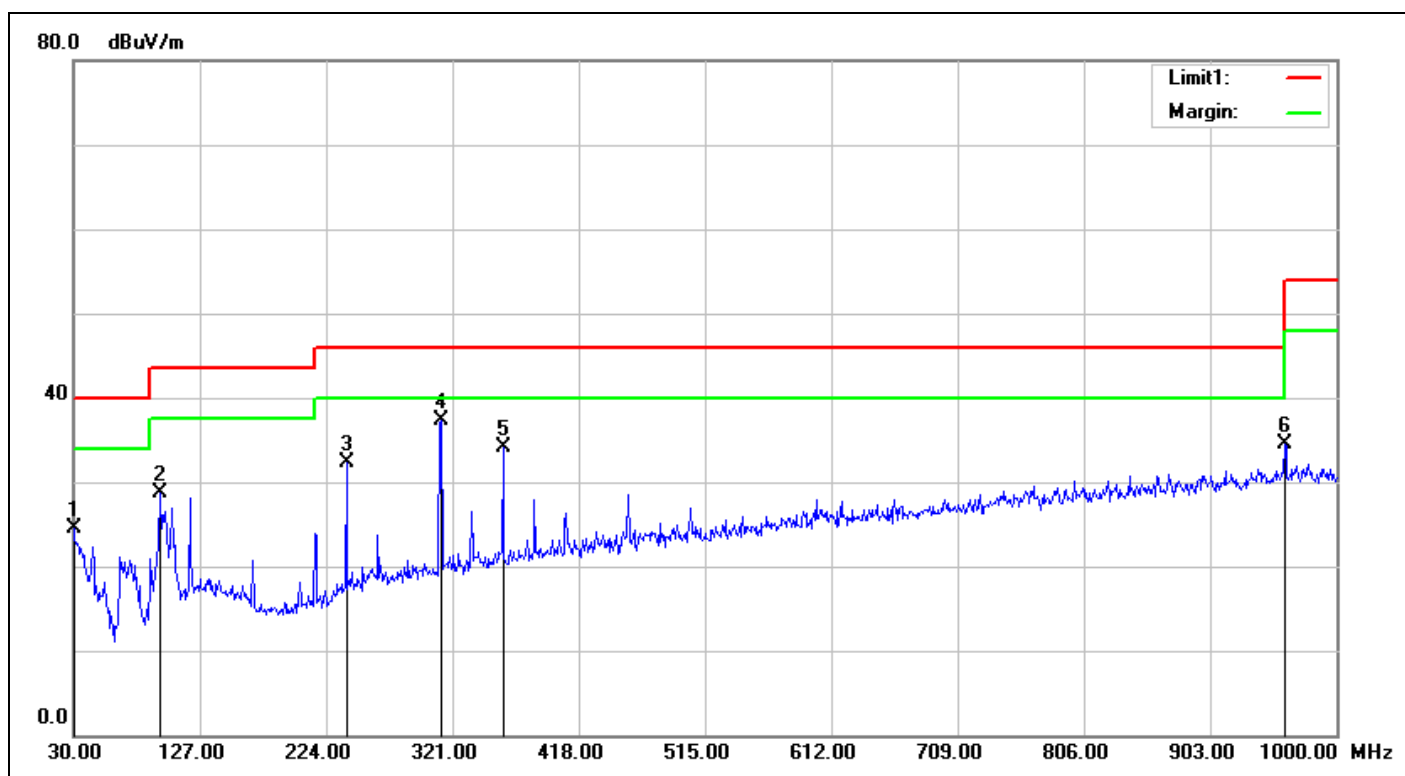
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.: 114058593(MH1-AAA)-BT  
 Test Standard: FCC Class B 3M Radiation  
 Test item: Radiation Emission  
 Applicant: Molekule  
 Product: Molekule Home One Air Purifier  
 Model No.: MH1-AAA  
 Test Mode: 1DH5-2441-RX  
 Remark:

Test Distance: 3m  
 Ant. Polarization: Horizontal  
 Test Time: 2017/3/1 20:34:21  
 Test Rating: AC 120V/60Hz  
 Temp.(°C)/Hum.(%): 20.1(°C)/49%  
 Test Engineer: George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	30.0000	-0.07	23.87	23.80	40.00	-16.20	QP	100	360	
2	119.2400	-7.40	32.06	24.66	43.50	-18.84	QP	100	107	
3	239.5200	-6.73	34.51	27.78	46.00	-18.22	QP	100	128	
4	359.8000	-3.30	33.39	30.09	46.00	-15.91	QP	100	117	
5	840.9200	3.53	30.28	33.81	46.00	-12.19	QP	100	107	
6	961.2000	5.48	28.31	33.79	54.00	-20.21	QP	100	56	



**Service No.:** 114058593(MH1-AAA)-BT  
**Test Standard:** FCC Class B 3M Radiation  
**Test item:** Radiation Emission  
**Applicant:** Molekule  
**Product:** Molekule Home One Air Purifier  
**Model No.:** MH1-AAA  
**Test Mode:** 1DH5-2441-RX  
**Remark:**

**Test Distance:** 3m  
**Ant. Polarization:** Vertical  
**Test Time:** 2017/3/1 20:35:24  
**Test Rating:** AC 120V/60Hz  
**Temp.(°C)/Hum.(%):** 20.1(°C)/49%  
**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	30.0000	-0.07	24.55	24.48	40.00	-15.52	QP	100	147	
2	95.9600	-10.03	38.78	28.75	43.50	-14.75	QP	100	206	
3	239.5200	-6.73	38.94	32.21	46.00	-13.79	QP	100	67	
4	312.2700	-4.23	41.50	37.27	46.00	-8.73	QP	100	150	
5	359.8000	-3.30	37.46	34.16	46.00	-11.84	QP	100	158	
6	960.2300	5.48	28.96	34.44	54.00	-19.56	QP	100	99	

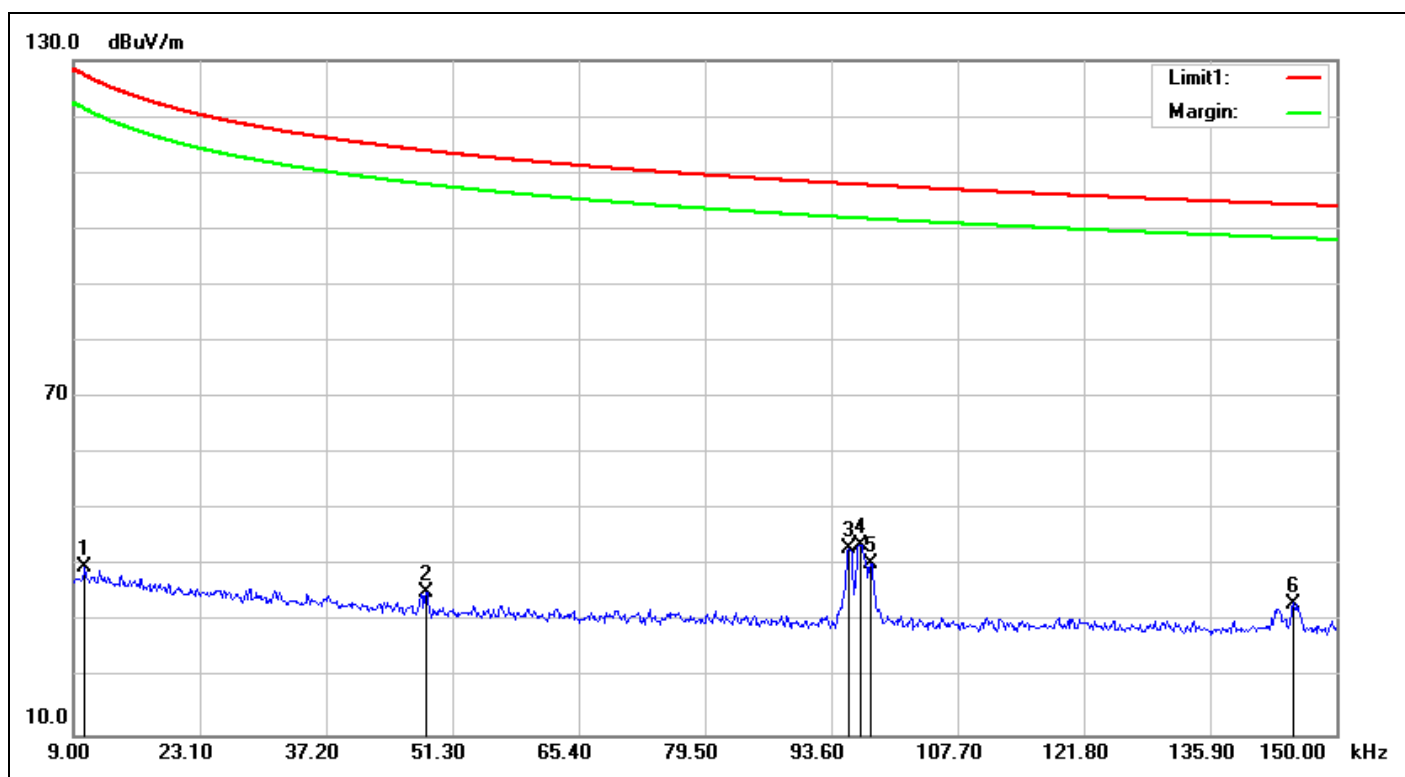
# Spurious Emissions, RX Mode, 9K-30M



**TUV Taiwan**

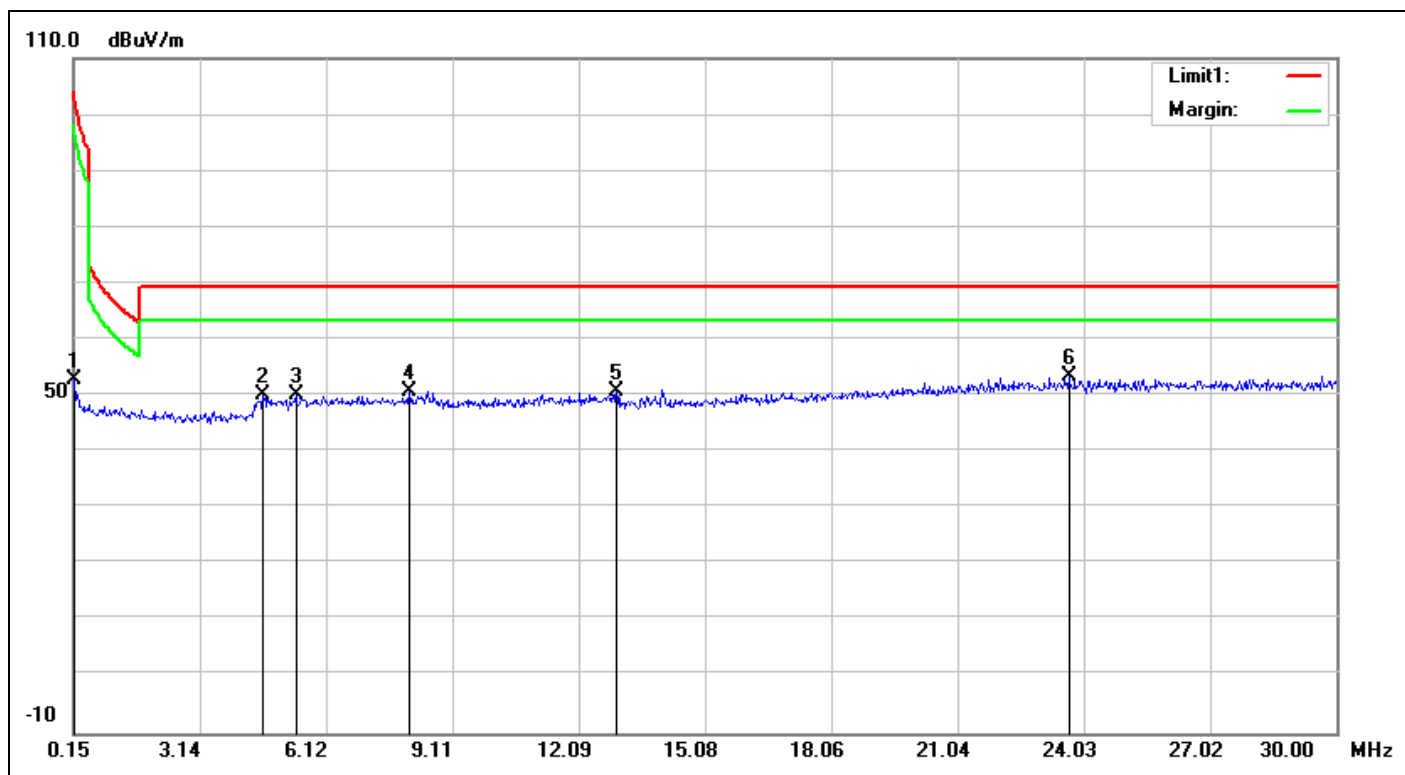
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114058593(MH1-AAA)-WiFi	Test Distance:	3m
Test Standard:	FCC15.209_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2017/3/6 21:12:05
Applicant:	Molekule	Test Rating:	AC 120V/60Hz
Product:	Molekule Home One Air Purifier	Temp.(°C)/Hum.(%)	21.2(°C)/64%
Model No.:	MH1-AAA	Test Engineer:	George Yang
Test Mode:	RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.0103	20.53	19.18	39.71	127.33	-87.62	QP	100	3	
2	0.0483	19.69	15.77	35.46	113.91	-78.45	QP	100	94	
3	0.0956	19.28	24.01	43.29	107.99	-64.70	QP	100	72	
4	0.0968	19.27	24.59	43.86	107.88	-64.02	QP	100	27	
5	0.0980	19.26	21.23	40.49	107.77	-67.28	QP	100	152	
6	0.1452	19.25	14.15	33.40	104.36	-70.96	QP	100	81	



**Service No.:** 114058593(MH1-AAA)-WiFi

**Test Standard:** FCC15.209\_9k-1G\_3m

**Test item:** Radiation Emission

**Applicant:** Molekule

**Product:** Molekule Home One Air Purifier

**Model No.:** MH1-AAA

**Test Mode:** RX

**Remark:**

**Test Distance:** 3m

**Ant. Polarization:**

**Test Time:** 2017/3/6 21:15:02

**Test Rating:** AC 120V/60Hz

**Temp.(°C)/Hum.(%):** 21.2(°C)/64%

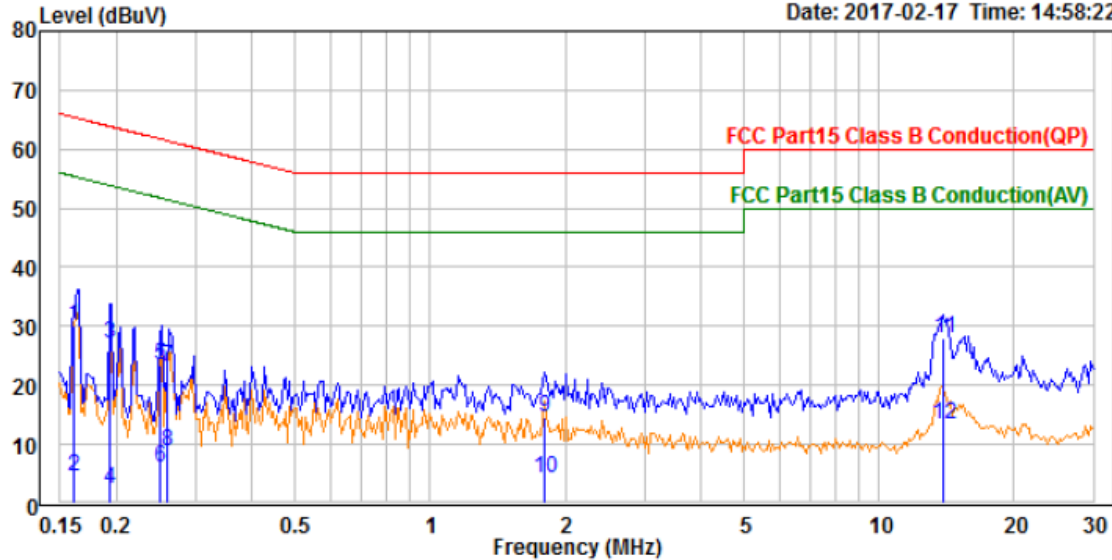
**Test Engineer:** George Yang

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth ( ° )	Remark
1	0.1799	19.25	33.54	52.79	102.50	-49.71	QP	100	351	
2	4.6275	19.58	30.60	50.18	69.50	-19.32	QP	100	160	
3	5.4036	19.76	30.32	50.08	69.50	-19.42	QP	100	351	
4	8.0901	20.18	30.54	50.72	69.50	-18.78	QP	100	243	
5	12.9855	20.87	29.85	50.72	69.50	-18.78	QP	100	360	
6	23.6718	21.95	31.42	53.37	69.50	-16.13	QP	100	320	

# Mains Spurious Emissions

File: C:\EMC\Report\2017\Chiun Mai\114058593(TBD)\1\_00001.EMI

Date: 2017-02-17 Time: 14:58:22



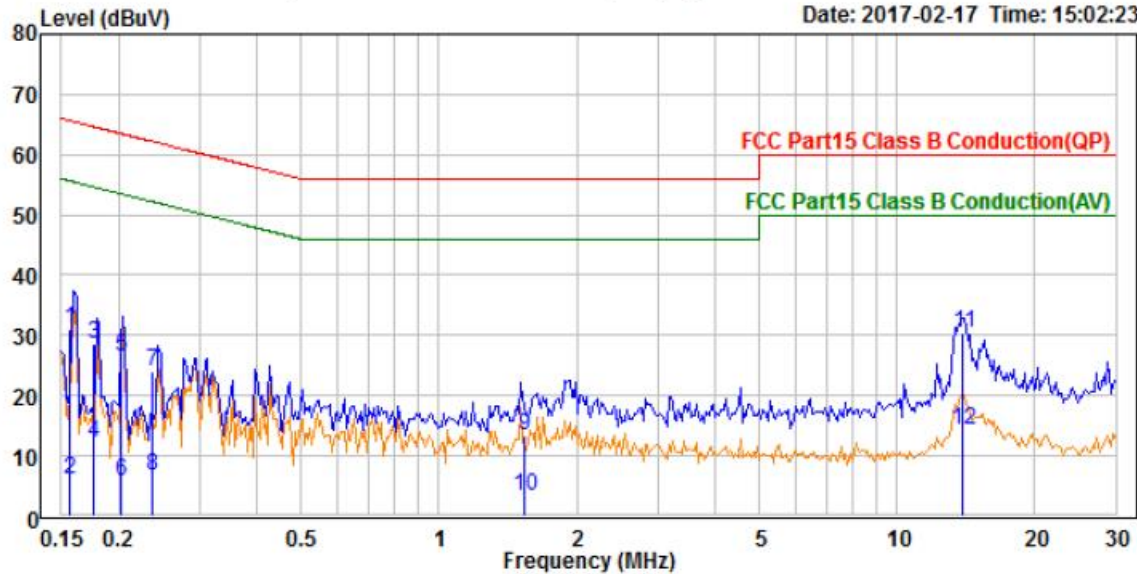
Trace: 1

Site : Conduction room  
Condition : FCC Part15 Class B Conduction(QP) line1  
Test Engineer: George Yang  
Applicant : Molekule  
Product : Molekule Home One Air Purifier  
Model No. : MH1-AAA  
Test Rating : 120Vac/60Hz  
Tmp/Hum : 24.3°C / 37%  
Memo : Mains

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.160	30.18	20.40	9.78	65.45	-35.27	QP
2	0.160	4.63	-5.15	9.78	55.45	-50.82	Average
3	0.193	26.93	17.17	9.76	63.93	-37.00	QP
4	0.193	2.54	-7.22	9.76	53.93	-51.39	Average
5	0.251	23.36	13.61	9.75	61.71	-38.35	QP
6	0.251	6.07	-3.68	9.75	51.71	-45.64	Average
7	0.259	23.14	13.39	9.75	61.47	-38.33	QP
8	0.259	8.89	-0.86	9.75	51.47	-42.58	Average
9	1.805	14.69	4.92	9.77	56.00	-41.31	QP
10	1.805	4.40	-5.37	9.77	46.00	-41.60	Average
11	13.954	27.95	18.04	9.91	60.00	-32.05	QP
12	13.954	13.38	3.47	9.91	50.00	-36.62	Average

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Date: 2017-02-17 Time: 15:02:23



Trace: 1

Site : Conduction room  
Condition : FCC Part15 Class B Conduction(QP) neutral  
Test Engineer: George Yang  
Applicant : Molekule  
Product : Molekule Home One Air Purifier  
Model No. : MH1-AAA  
Test Rating : 120Vac/60Hz  
Tmp/Hum : 24.3°C / 37%  
Memo : Mains

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	
1	0.156	31.02	21.29	9.73	65.68	-34.66	QP
2	0.156	6.17	-3.56	9.73	55.68	-49.51	Average
3	0.176	28.54	18.84	9.70	64.67	-36.13	QP
4	0.176	12.04	2.34	9.70	54.67	-42.63	Average
5	0.203	26.31	16.62	9.69	63.48	-37.17	QP
6	0.203	5.66	-4.03	9.69	53.48	-47.82	Average
7	0.237	23.89	14.20	9.69	62.19	-38.30	QP
8	0.237	6.54	-3.15	9.69	52.19	-45.65	Average
9	1.538	13.25	3.54	9.71	56.00	-42.75	QP
10	1.538	3.28	-6.43	9.71	46.00	-42.72	Average
11	13.950	30.31	20.43	9.88	60.00	-29.69	QP
12	13.950	14.18	4.30	9.88	50.00	-35.82	Average