

# Test Report No.10055122 001

## Appendix D: Radiated and Mains Spurious Emission Data

(File: 10055122AppendixD)

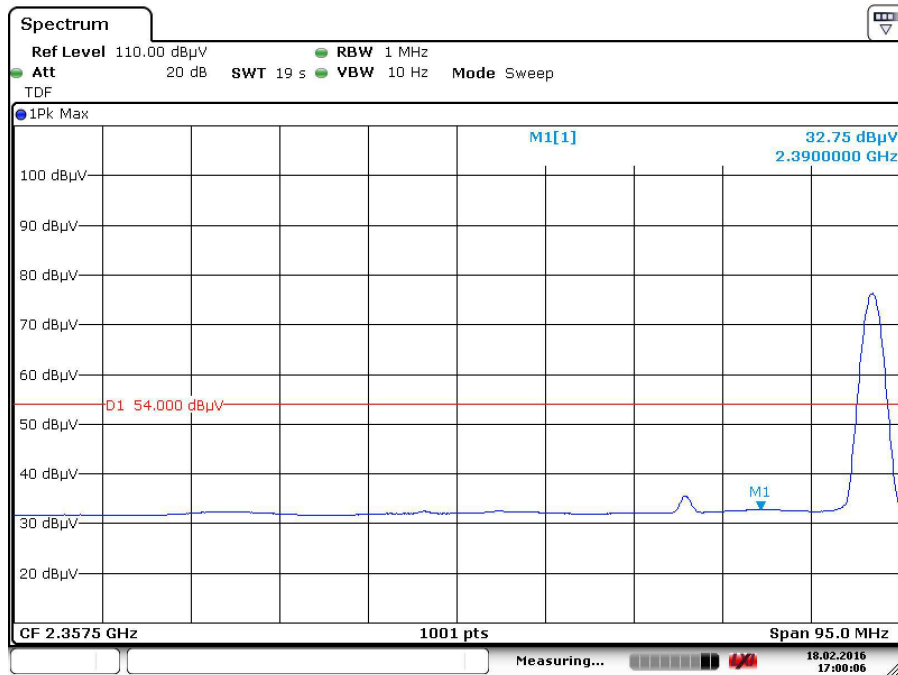
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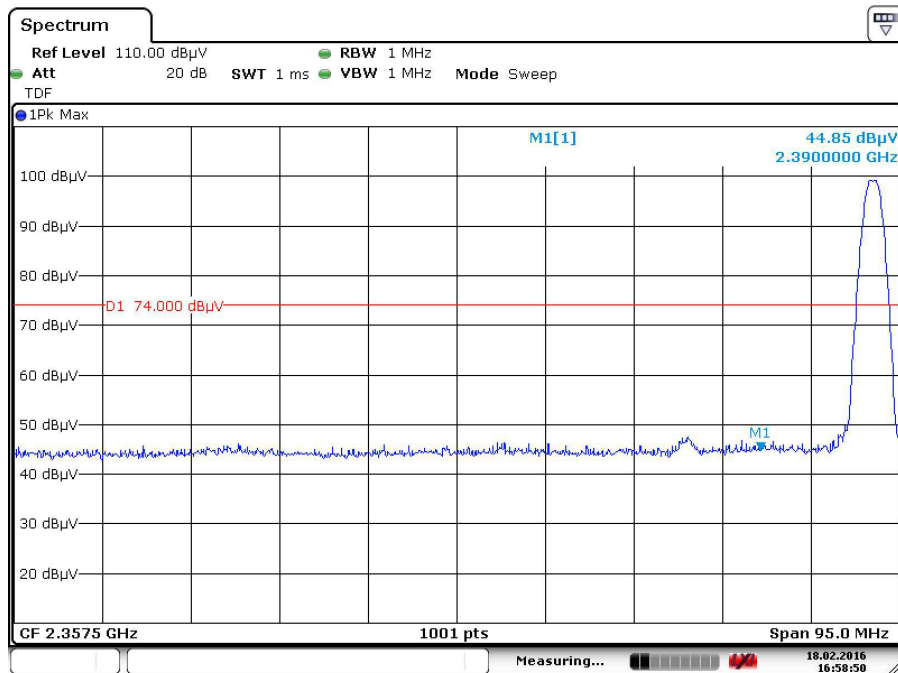
# Spurious Emissions, Band Edges, 2.35-2.5G

## Bandedge (GFSK)

### Low Channel (Hor)



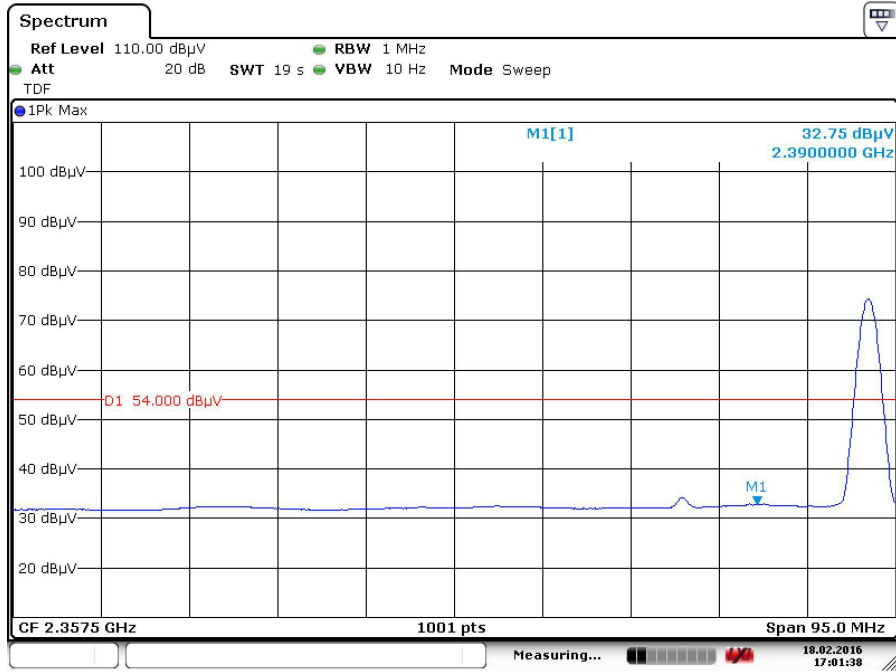
Date: 18.FEB.2016 17:00:06



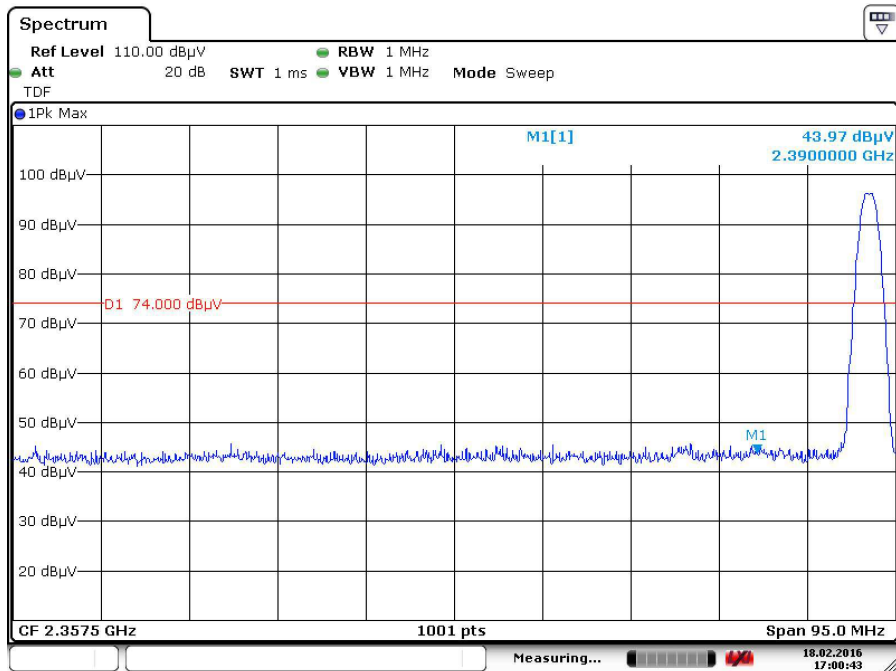
Date: 18.FEB.2016 16:58:49

# Spurious Emissions, Band Edge, 2.35-2.5G

# Low Channel (Ver)



Date: 18.FEB.2016 17:01:38

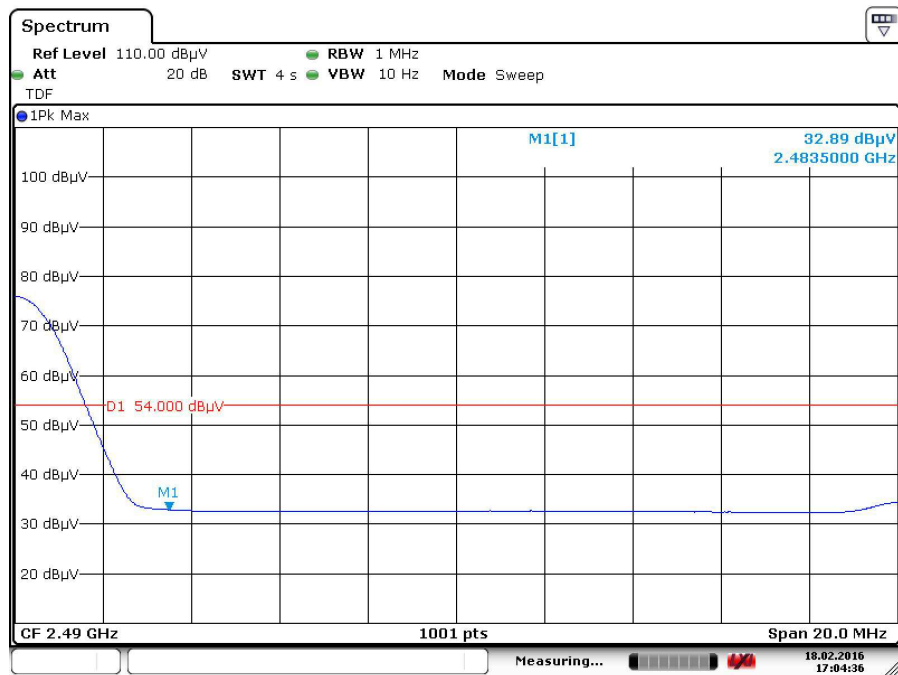


Date: 18.FEB.2016 17:00:43

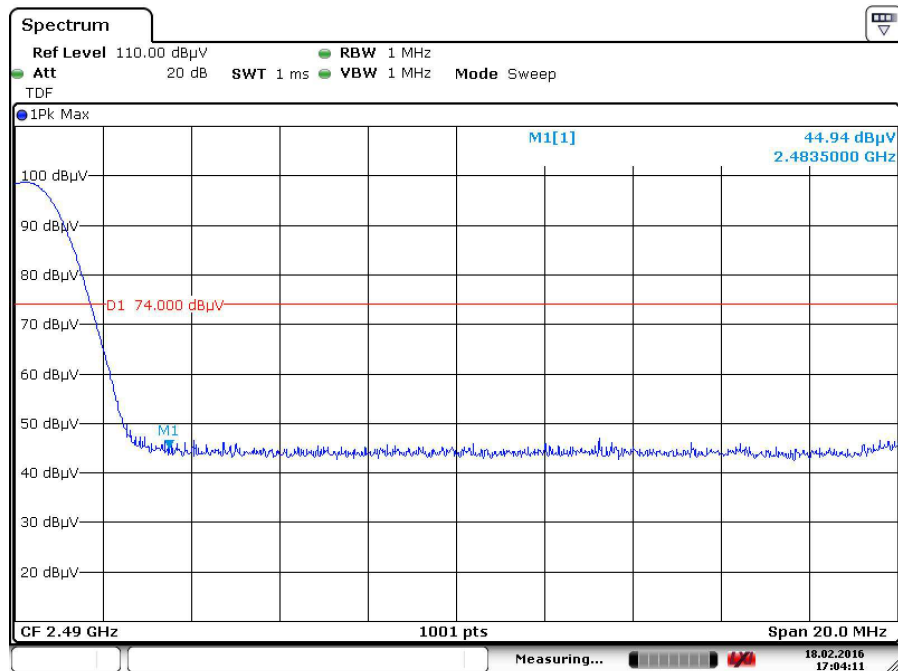
# Spurious Emissions, Band Edge, 2.35-2.5G

# Radiated Bandedge (GFSK)

## High Channel (Hor)



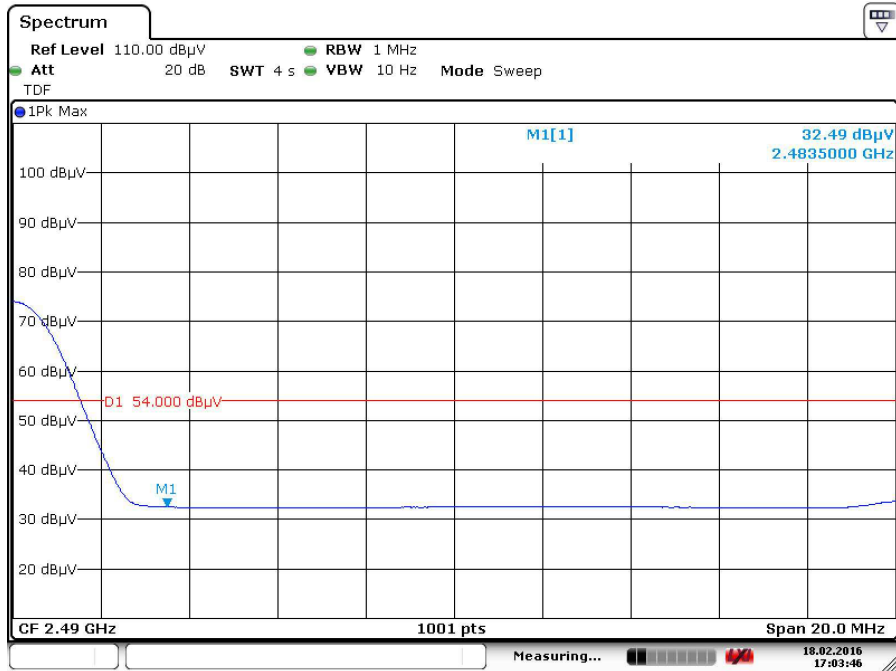
Date: 18.FEB.2016 17:04:36



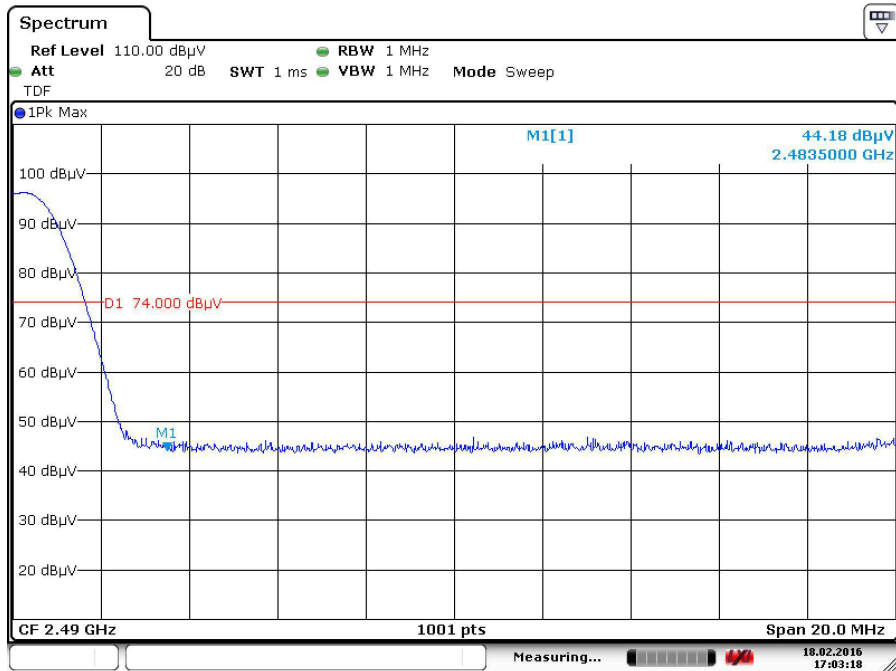
Date: 18.FEB.2016 17:04:11

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

# High Channel (Ver)



Date: 18.FEB.2016 17:03:46



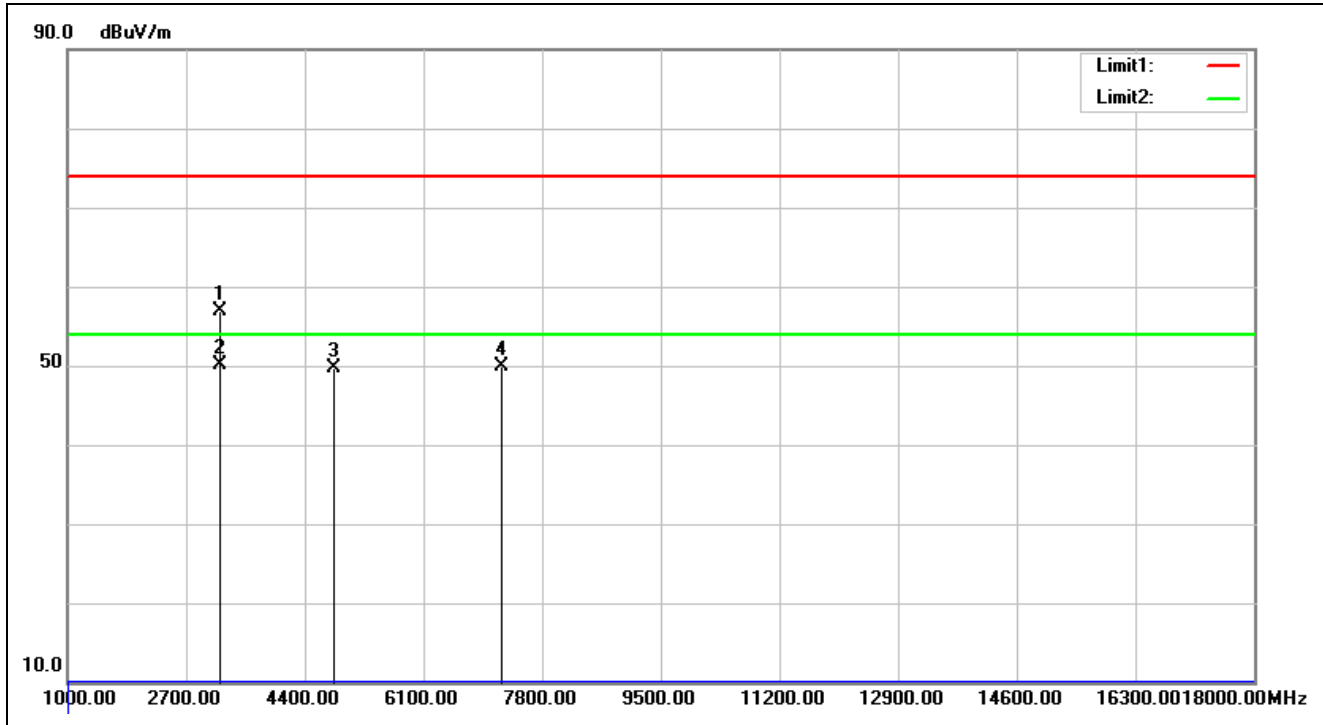
Date: 18.FEB.2016 17:03:18

# Spurious Emissions, Band Edge, 2.35-2.5G

# Spurious Emissions, TX Mode, 1-18G

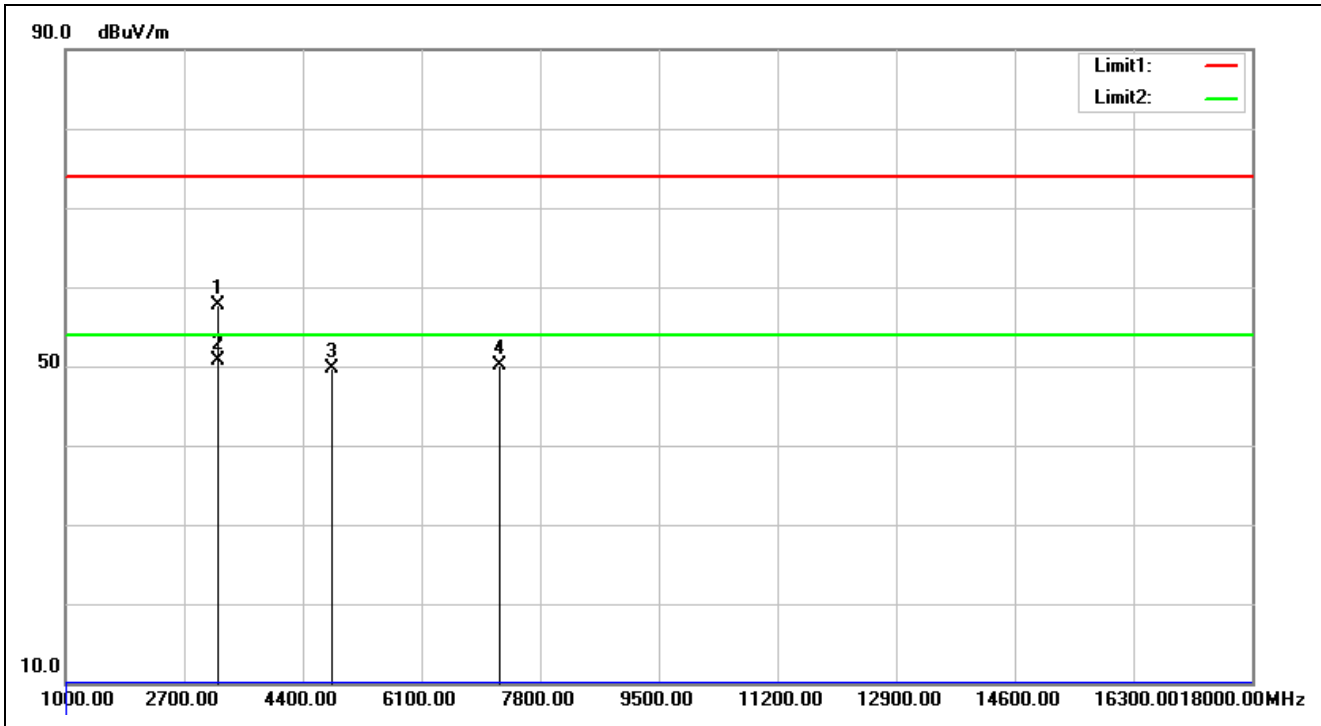


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 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105  
 Tel:+886-2172-7000 fax:+886-2528-0018



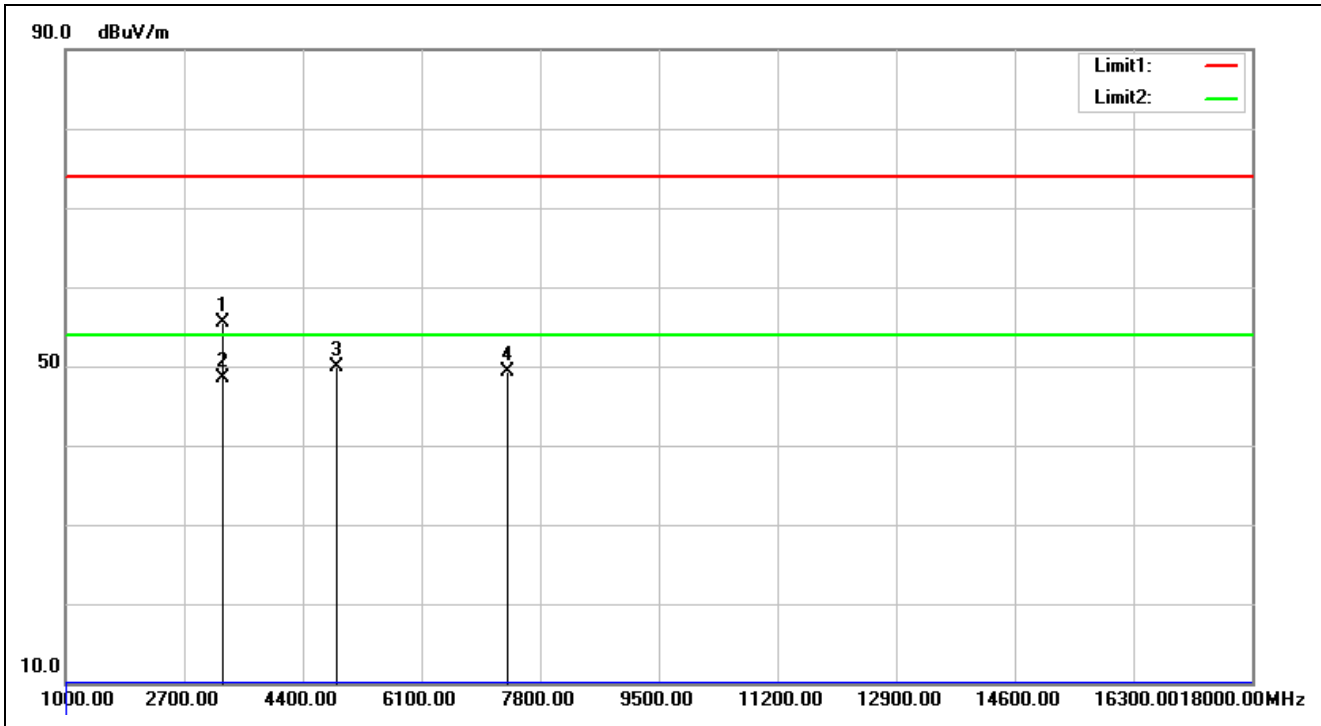
<b>Service No.:</b>	<b>114046469</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2016/2/18 18:34:25</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>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	3193.000	-5.85	62.74	56.89	74.00	-17.11	peak	100	153	
2	3193.000	-5.85	55.90	50.05	54.00	-3.95	AVG	100	153	
3	4804.000	-2.28	52.07	49.79	74.00	-24.21	peak	100	164	
4	7206.000	5.77	44.13	49.90	74.00	-24.10	peak			



<b>Service No.:</b>	<b>114046469</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>2016/2/18 18:35:28</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2402-TX</b>		
<b>Remark:</b>			

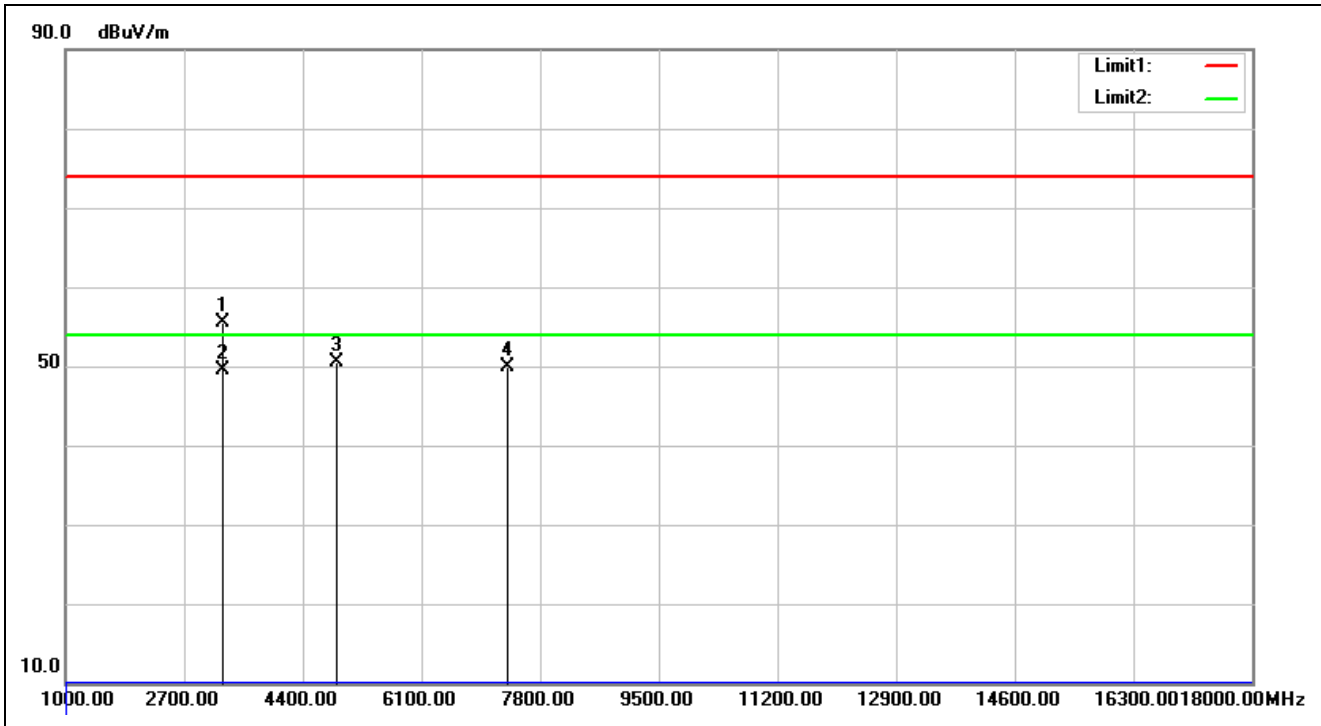
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3193.000	-5.85	63.46	57.61	74.00	-16.39	peak	100	202	
2	3193.000	-5.85	56.52	50.67	54.00	-3.33	AVG	100	202	
3	4804.000	-2.28	52.01	49.73	74.00	-24.27	peak	100	166	
4	7206.000	5.77	44.42	50.19	74.00	-23.81	peak			



<b>Service No.:</b>	<b>114046469</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>2016/2/18 17:12:34</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

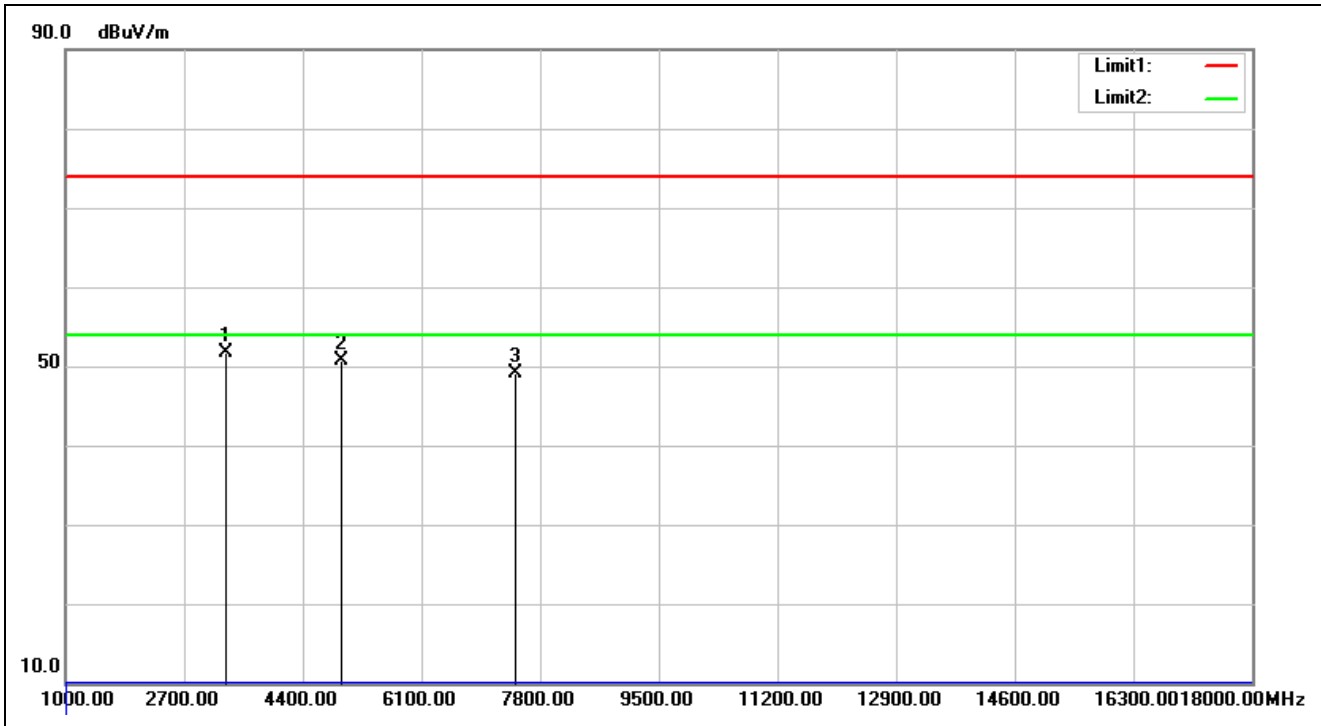
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3244.000	-5.81	61.26	55.45	74.00	-18.55	peak	100	153	
2	3244.000	-5.81	54.30	48.49	54.00	-5.51	AVG	100	153	
3	4880.000	-2.10	52.10	50.00	74.00	-24.00	peak	100	167	
4	7320.000	6.10	43.24	49.34	74.00	-24.66	peak			





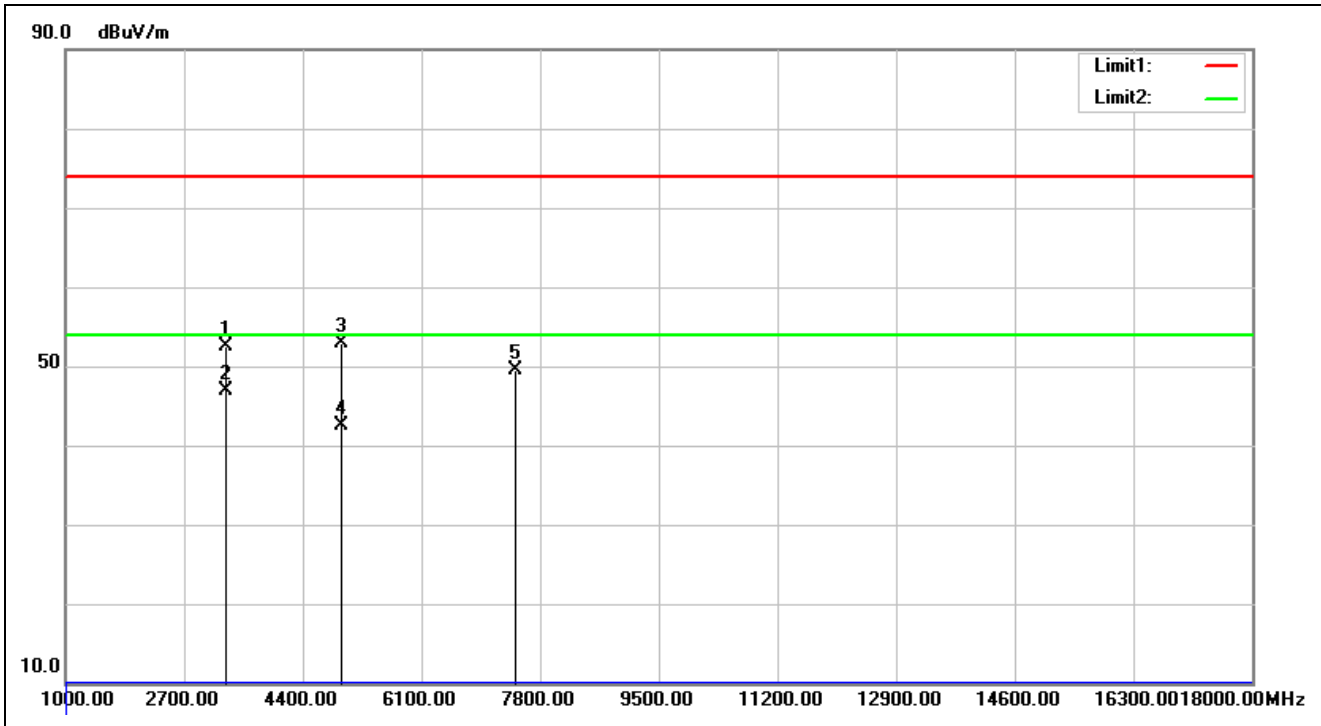
<b>Service No.:</b>	<b>114046469</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2016/2/18 17:13:36</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-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	3244.000	-5.81	61.38	55.57	74.00	-18.43	peak	100	199	
2	3244.000	-5.81	55.26	49.45	54.00	-4.55	AVG	100	199	
3	4880.000	-2.10	52.53	50.43	74.00	-23.57	peak	100	190	
4	7320.000	6.10	43.86	49.96	74.00	-24.04	peak			



<b>Service No.:</b>	<b>114046469</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>2016/2/18 17:02:36</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>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	3295.000	-5.76	57.54	51.78	74.00	-22.22	peak	100	160	
2	4960.000	-1.91	52.57	50.66	74.00	-23.34	peak	100	174	
3	7440.000	6.44	42.73	49.17	74.00	-24.83	peak		0	



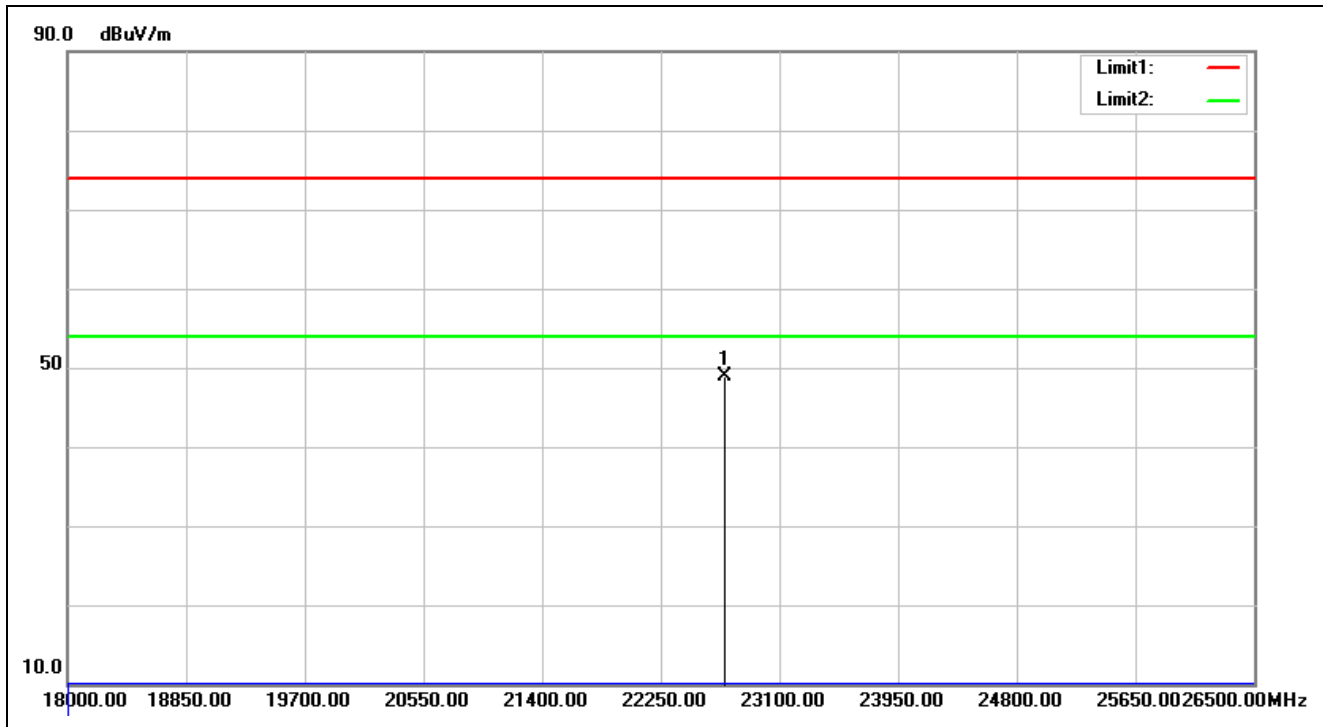
<b>Service No.:</b>	<b>114046469</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2016/2/18 17:03:38</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>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	3295.000	-5.76	58.18	52.42	74.00	-21.58	peak	100	197	
2	3295.000	-5.76	52.68	46.92	54.00	-7.08	AVG	100	197	
3	4960.000	-1.91	54.74	52.83	74.00	-21.17	peak	100	178	
4	4960.000	-1.91	44.50	42.59	54.00	-11.41	AVG	100	178	
5	7440.000	6.44	43.16	49.60	74.00	-24.40	peak		0	

# Spurious Emissions, TX Mode, 18-26G

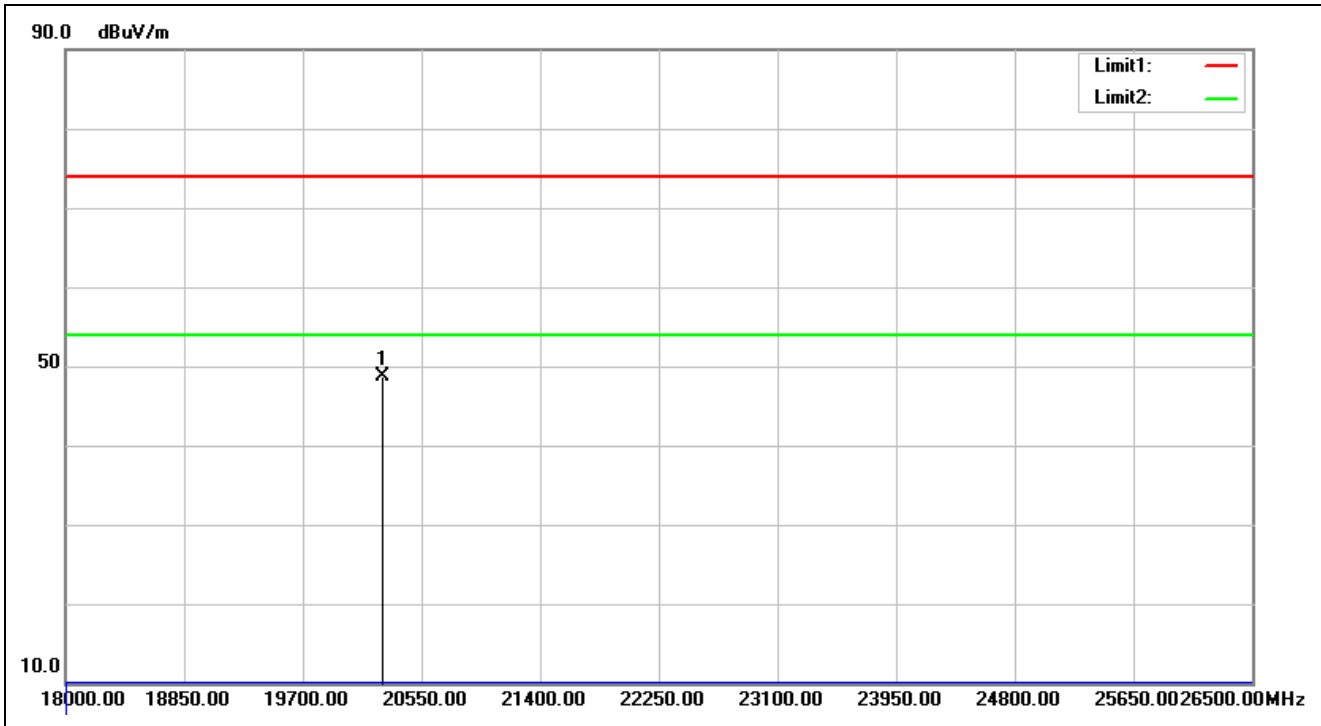


**TUV Taiwan**  
 11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105  
 Tel:+886-2172-7000 fax:+886-2528-0018



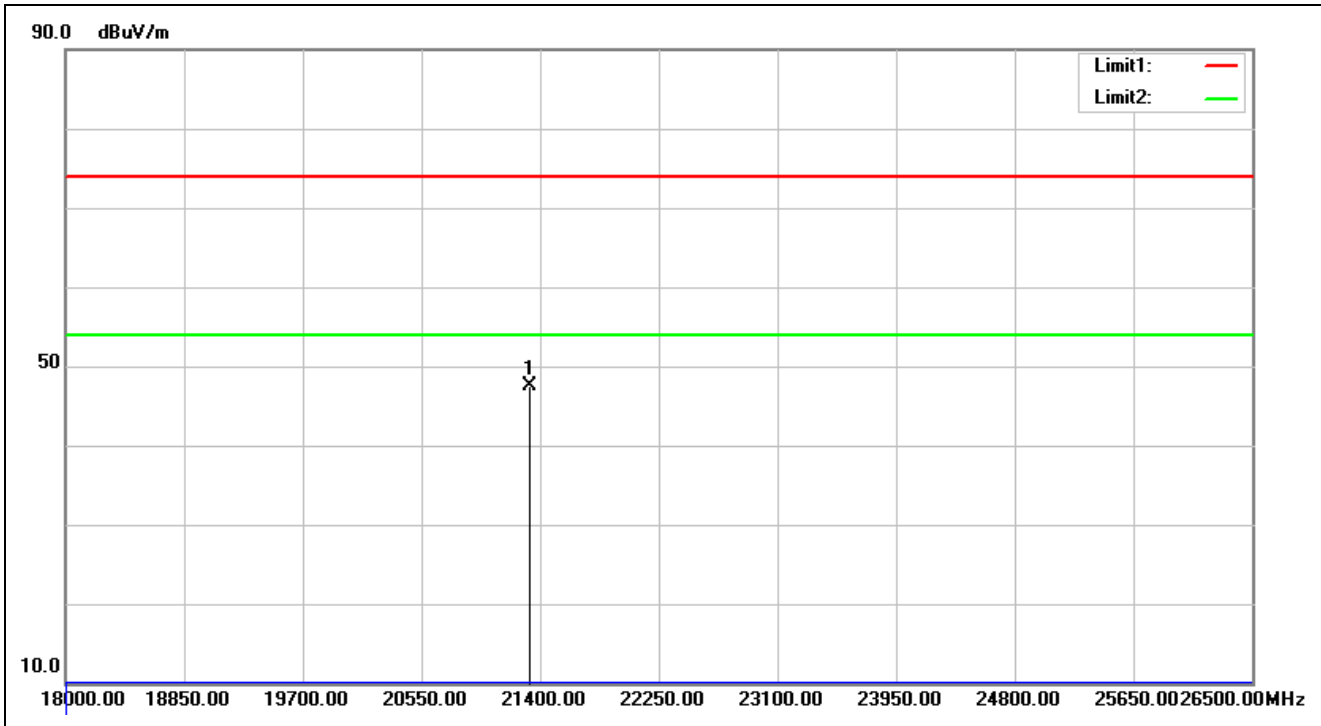
<b>Service No.:</b>	114046469	<b>Test Distance:</b>	3m
<b>Test Standard:</b>	FCC Above 1G PEAK	<b>Ant. Polarization:</b>	Horizontal
<b>Test item:</b>	Radiation Emission	<b>Test Time:</b>	2016/2/18 20:08:59
<b>Applicant:</b>	Acrox	<b>Test Rating:</b>	DC 5V
<b>Product:</b>	USB Bluetooth Adapter	<b>Temp.(°C)/Hum.(%):</b>	19.6(°C)/61%
<b>Model No.:</b>	NS-PCY5BMA2	<b>Test Engineer:</b>	George Yang
<b>Test Mode:</b>	2402-TX		
<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	22709.000	30.05	18.92	48.97	74.00	-25.03	peak		0	



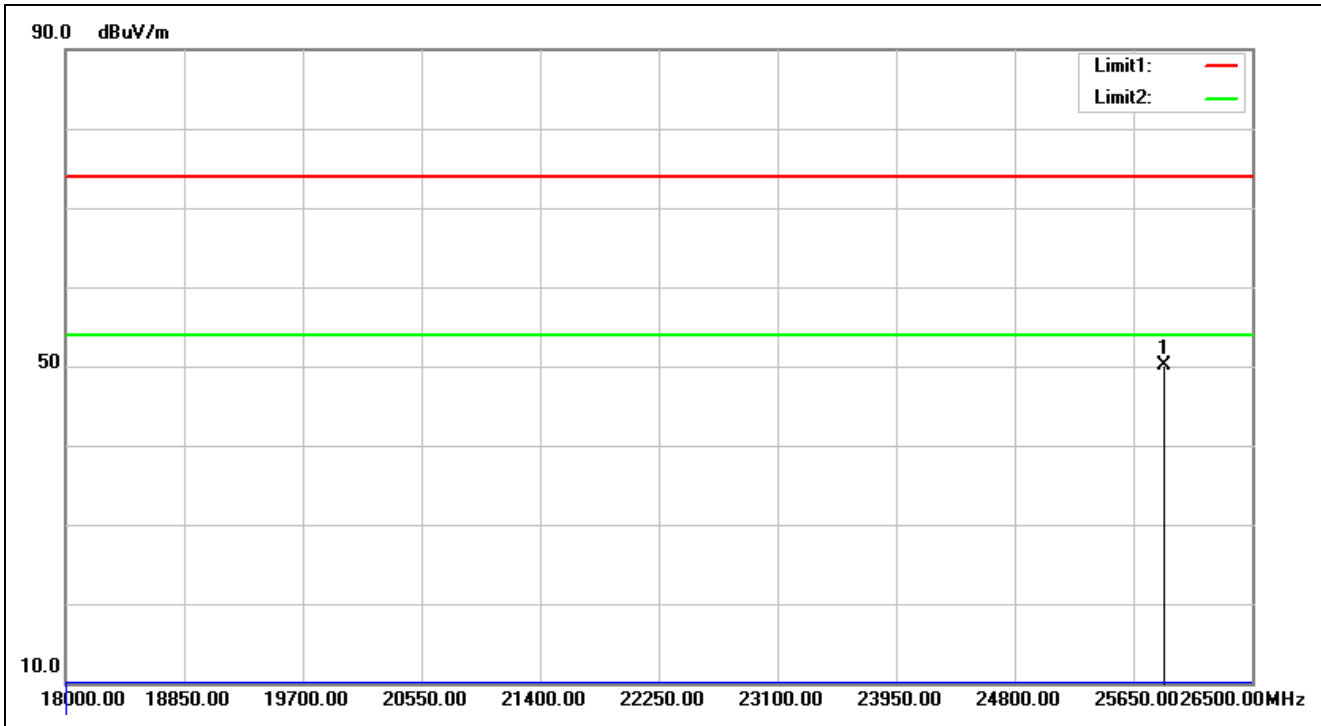
<b>Service No.:</b>	<b>114046469</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2016/2/18 20:09:08</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>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	20269.500	29.73	19.05	48.78	74.00	-25.22	peak			



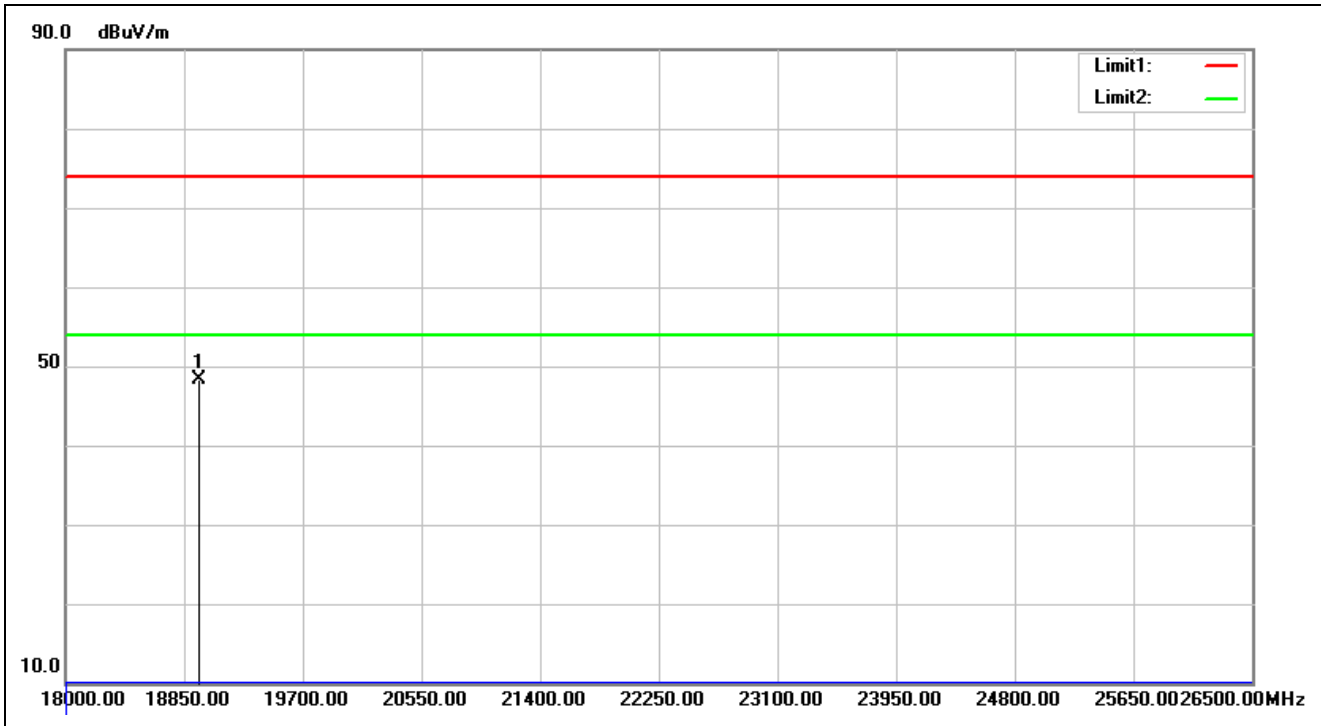
<b>Service No.:</b>	<b>114046469</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2016/2/18 20:09:22</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-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	21323.500	29.67	17.76	47.43	74.00	-26.57	peak			



<b>Service No.:</b>	<b>114046469</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>2016/2/18 20:09:29</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

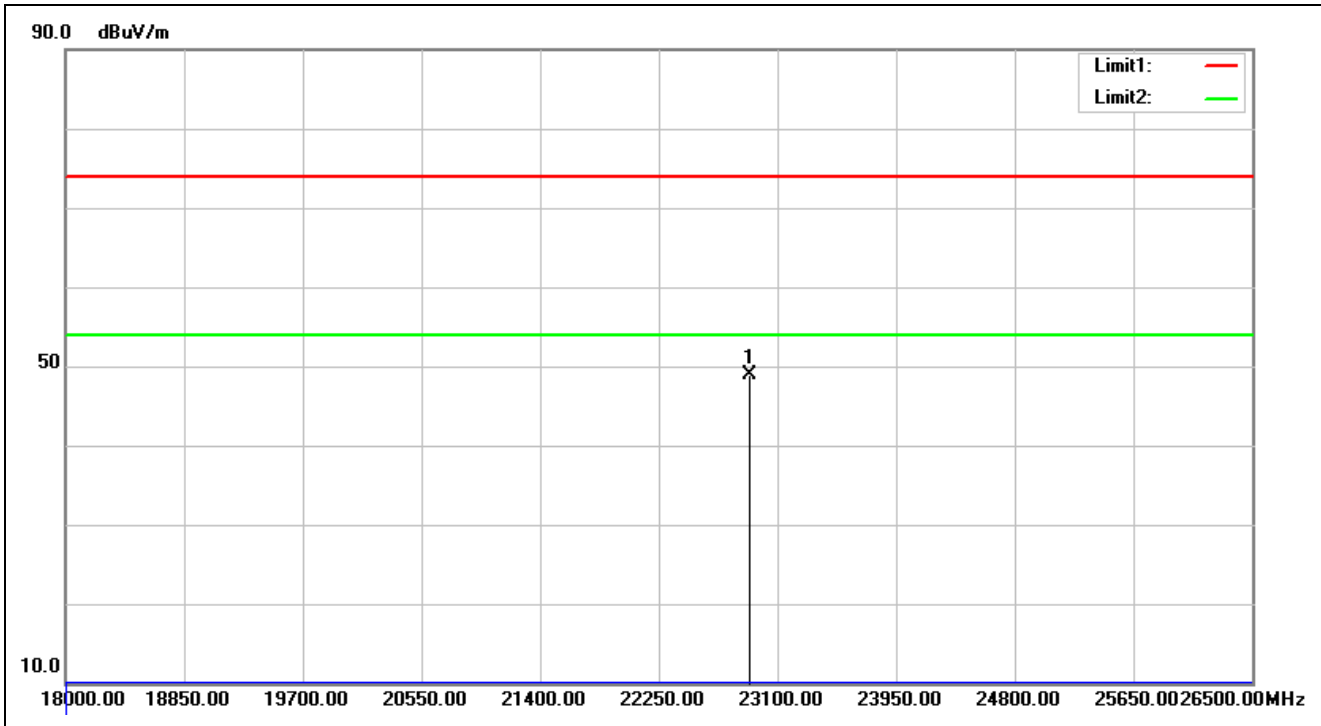
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25871.000	32.28	17.80	50.08	74.00	-23.92	peak			



<b>Service No.:</b>	<b>114046469</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>2016/2/18 20:09:45</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>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	18952.000	29.39	18.91	48.30	74.00	-25.70	peak			





<b>Service No.:</b>	<b>114046469</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>2016/2/18 20:10:13</b>
<b>Applicant:</b>	<b>Acrox</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>USB Bluetooth Adapter</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>19.6(°C)/61%</b>
<b>Model No.:</b>	<b>NS-PCY5BMA2</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>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	22904.500	30.35	18.52	48.87	74.00	-25.13	peak			

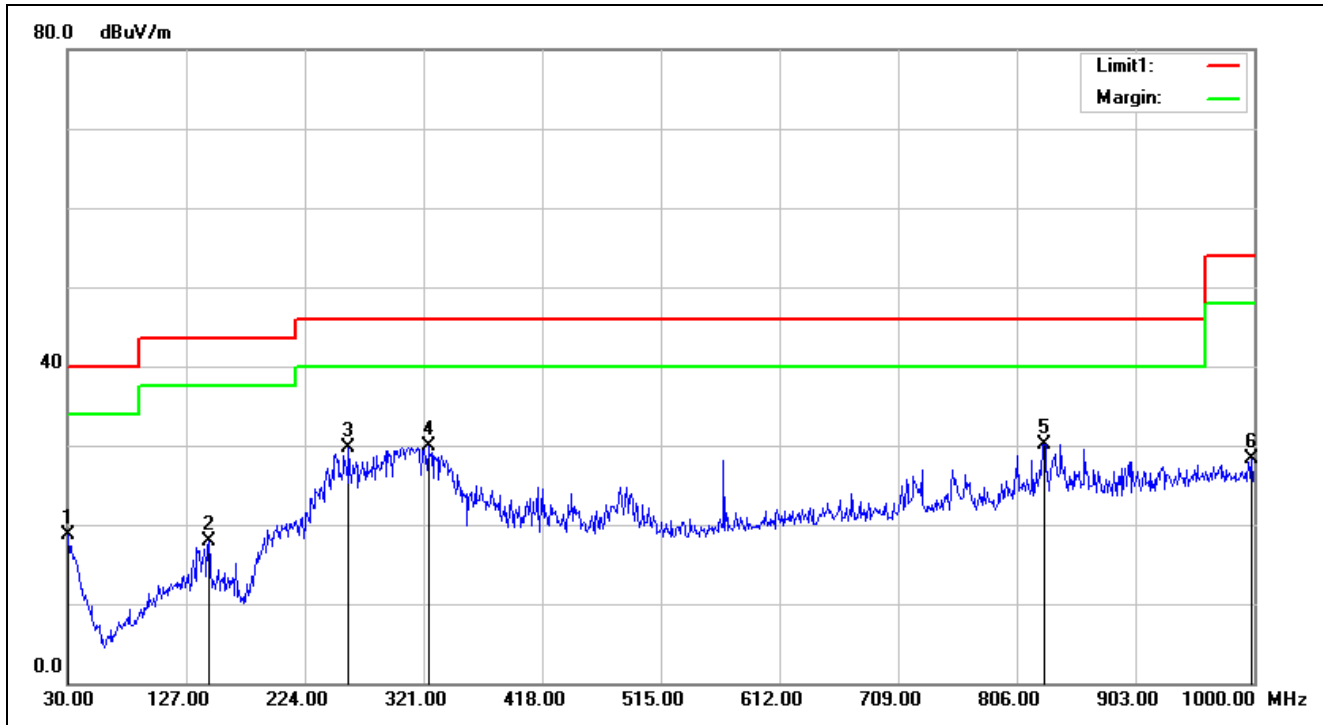
# Spurious Emissions, TX Mode, 30M-1G



TUV Taiwan

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

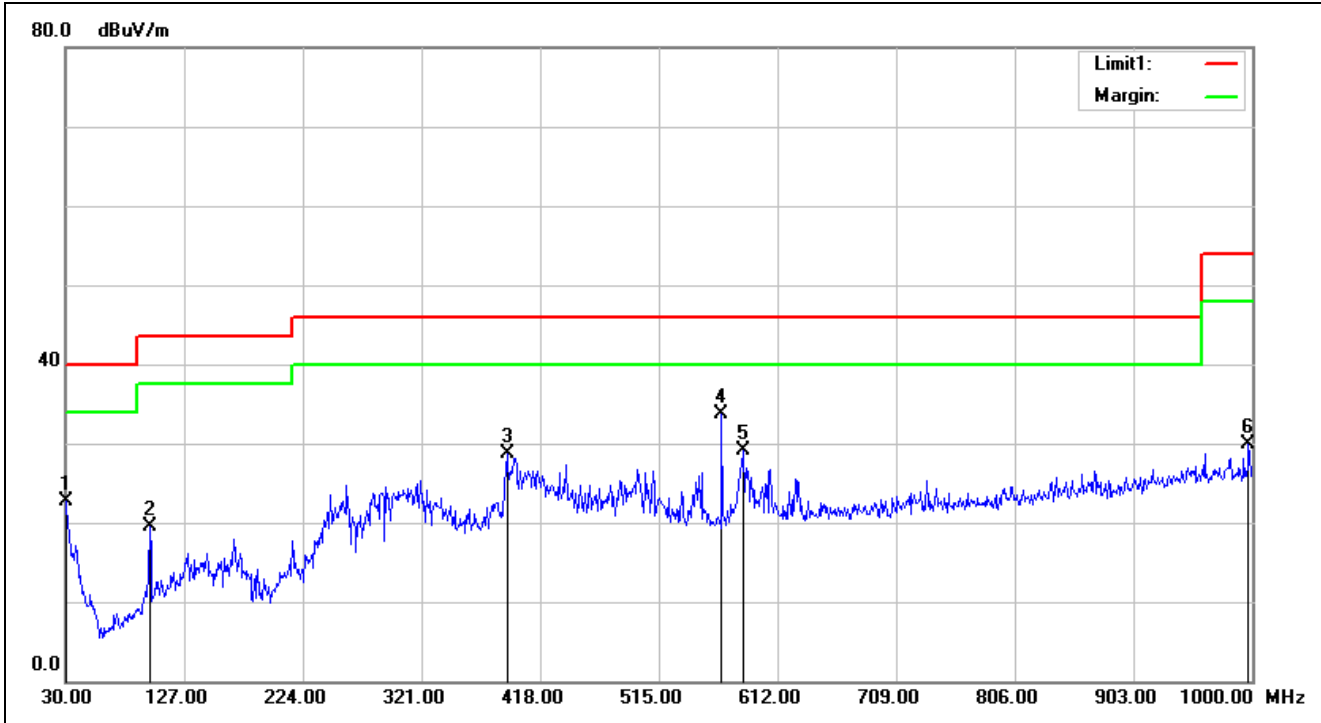
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114046469	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/2/18 16:10:36
Applicant:	Acrox	Test Rating:	DC 5V
Product:	USB Bluetooth Adapter	Temp.(°C)/Hum.(%):	19.6(°C)/61%
Model No.:	NS-PCY5BMA2	Test Engineer:	George Yang
Test Mode:	2440-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	-5.85	24.60	18.75	40.00	-21.25	QP	100	37	
2	145.4299	-13.00	30.82	17.82	43.50	-25.68	QP	100	269	
3	259.8899	-10.81	40.57	29.76	46.00	-16.24	QP	100	232	
4	324.8798	-9.93	39.76	29.83	46.00	-16.17	QP	100	306	
5	828.3099	-2.97	33.16	30.19	46.00	-15.81	QP	100	293	
6	998.0599	-0.01	28.24	28.23	54.00	-25.77	QP	100	351	

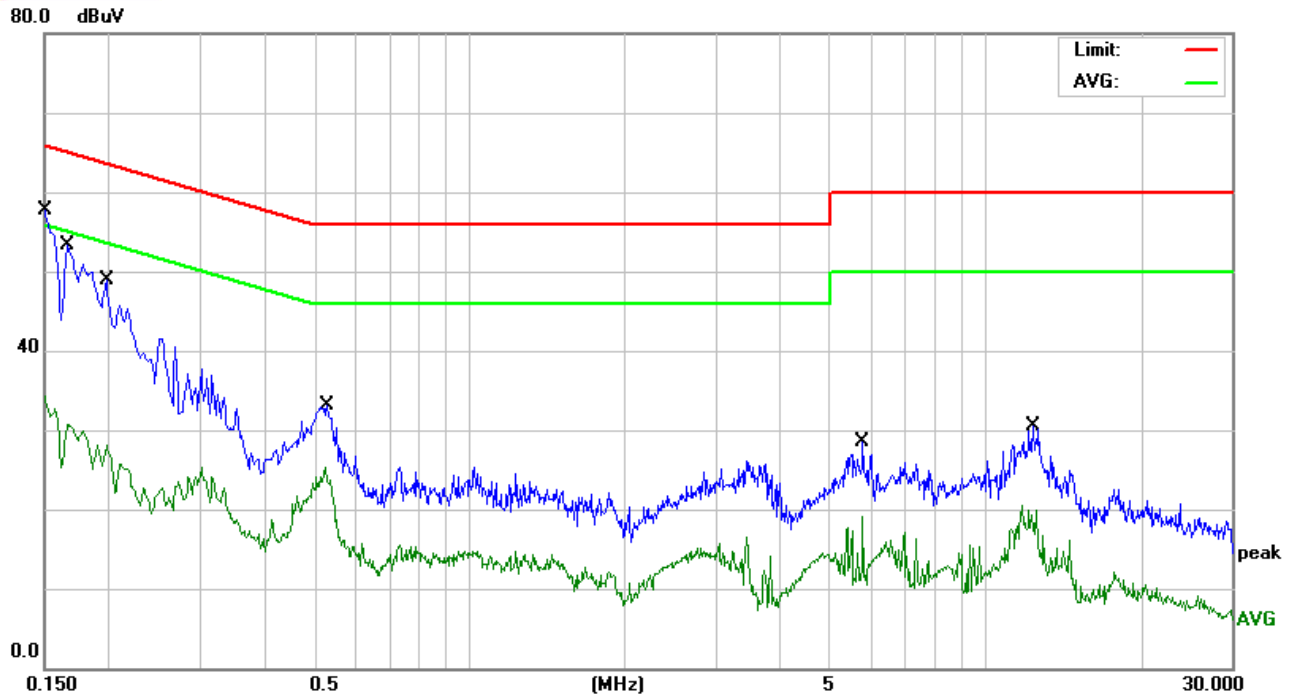
## Spurious Emissions, Mains, 150kHz - 30MHz



Service No.:	114046469	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/2/18 16:11:39
Applicant:	Acrox	Test Rating:	DC 5V
Product:	USB Bluetooth Adapter	Temp.(°C)/Hum.(%):	19.6(°C)/61%
Model No.:	NS-PCY5BMA2	Test Engineer:	George Yang
Test Mode:	2440-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	-5.85	28.65	22.80	40.00	-17.20	QP	100	43	
2	98.8700	-14.94	34.37	19.43	43.50	-24.07	QP	100	65	
3	390.8400	-8.80	37.42	28.62	46.00	-17.38	QP	100	206	
4	566.4099	-6.66	40.44	33.78	46.00	-12.22	QP	100	139	
5	583.8700	-6.32	35.48	29.16	46.00	-16.84	QP	100	65	
6	997.0900	-0.03	30.00	29.97	54.00	-24.03	QP	100	246	

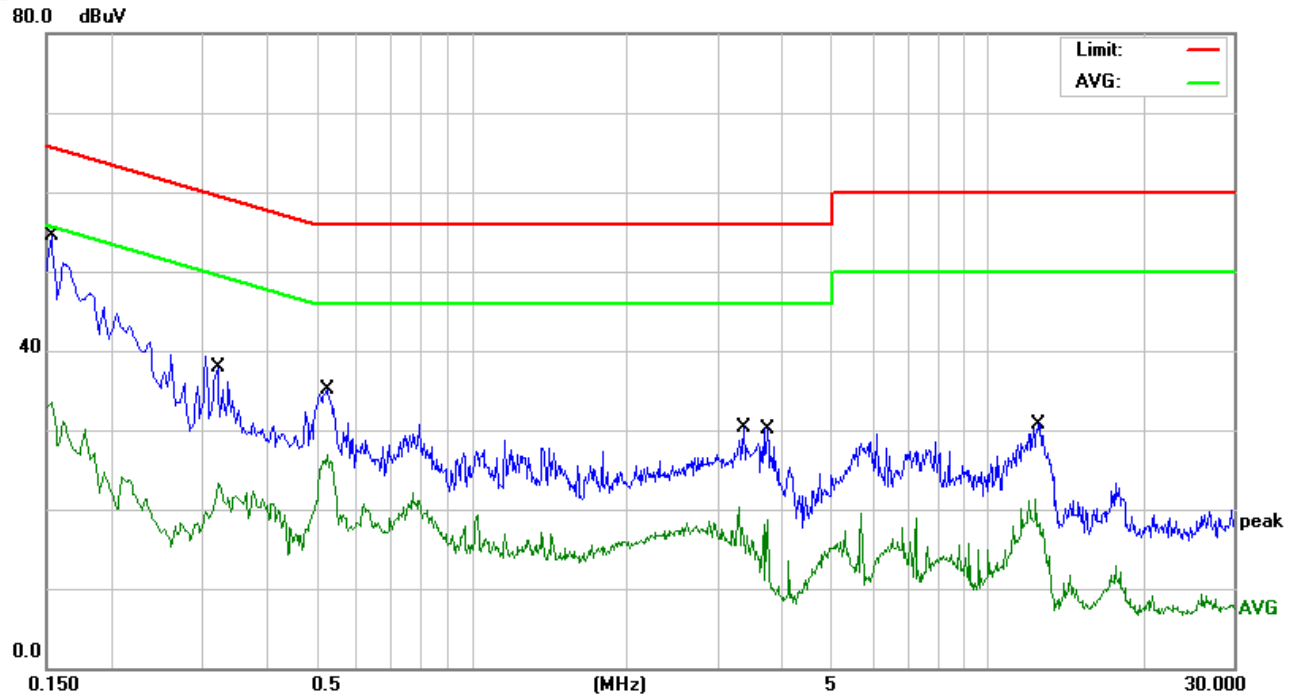
# Mains Spurious Emissions



Service No.: 114046469  
 Test Standard: FCC Class B Conduction(QP) Probe: L1  
 Test item: Conduction Emission Test Time: 2016/2/17 17:18:17  
 Applicant: Acrox Test Rating: AC 120V/60Hz  
 Product: USB Bluetooth Adapter Temp.(°C)/Hum.(%): 18.7(°C)/45%  
 Model No.: NS-PCY5BMA2 Test Engineer: George Yang  
 Test Mode: Mains-LE  
 Remark:

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1500	9.65	37.57	47.22	66.00	-18.78	QP	
2	0.1500	9.65	21.21	30.86	56.00	-25.14	AVG	
3	0.1660	9.65	33.88	43.53	65.16	-21.63	QP	
4	0.1660	9.65	18.13	27.78	55.16	-27.38	AVG	
5	0.1980	9.63	29.52	39.15	63.69	-24.54	QP	
6	0.1980	9.63	13.26	22.89	53.69	-30.80	AVG	
7	0.5300	9.63	20.67	30.30	56.00	-25.70	QP	
8	0.5300	9.63	14.18	23.81	46.00	-22.19	AVG	
9	5.7860	9.69	8.20	17.89	60.00	-42.11	QP	
10	5.7860	9.69	1.13	10.82	50.00	-39.18	AVG	
11	12.3420	9.79	12.74	22.53	60.00	-37.47	QP	
12	12.3420	9.79	5.94	15.73	50.00	-34.27	AVG	

Spurious Emissions, Mains, 150kHz - 30MHz



**Service No.:** 114046469  
**Test Standard:** FCC Class B Conduction(QP) **Probe:** N  
**Test item:** Conduction Emission **Test Time:** 2016/2/17 17:15:44  
**Applicant:** Acrox **Test Rating:** AC 120V/60Hz  
**Product:** USB Bluetooth Adapter **Temp.(°C)/Hum.(%):** 18.7(°C)/45%  
**Model No.:** NS-PCY5BMA2 **Test Engineer:** George Yang  
**Test Mode:** Mains-LE

**Remark:**

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1539	9.66	37.42	47.08	65.78	-18.70	QP	
2	0.1539	9.66	19.92	29.58	55.78	-26.20	AVG	
3	0.3220	9.64	19.00	28.64	59.65	-31.01	QP	
4	0.3220	9.64	9.86	19.50	49.65	-30.15	AVG	
5	0.5260	9.64	22.07	31.71	56.00	-24.29	QP	
6	0.5260	9.64	15.94	25.58	46.00	-20.42	AVG	
7	3.3780	9.69	12.05	21.74	56.00	-34.26	QP	
8	3.3780	9.69	5.25	14.94	46.00	-31.06	AVG	
9	3.7420	9.69	10.26	19.95	56.00	-36.05	QP	
10	3.7420	9.69	0.97	10.66	46.00	-35.34	AVG	
11	12.5500	9.84	14.04	23.88	60.00	-36.12	QP	
12	12.5500	9.84	7.61	17.45	50.00	-32.55	AVG	