

# Test Report No.10054219 001

## Appendix D: Radiated and Mains Spurious Emission Data

(File: 10054219AppendixD)

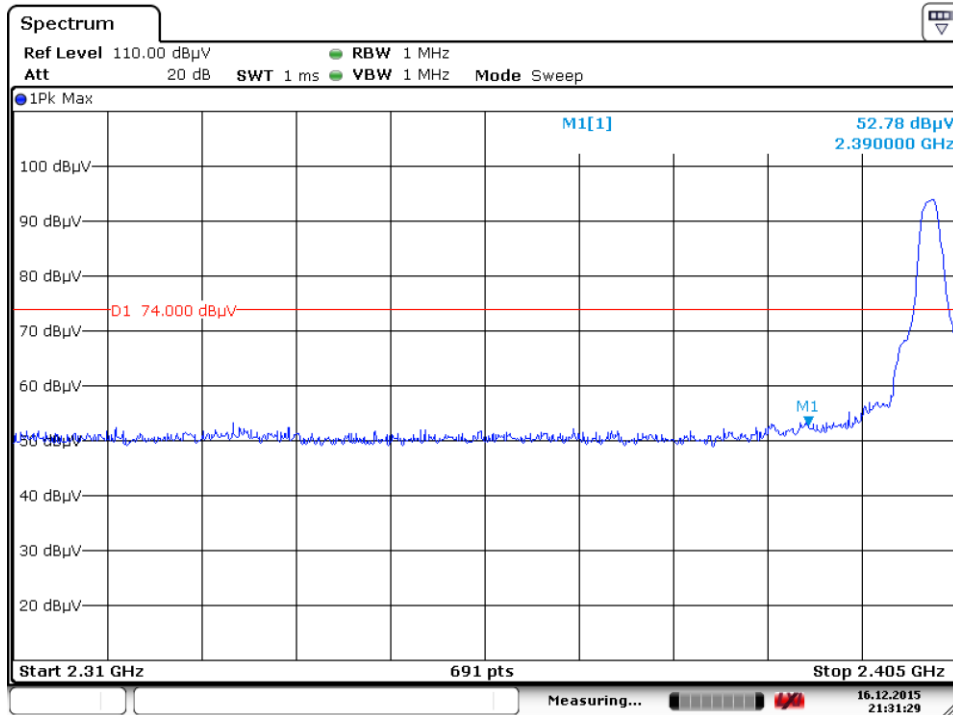
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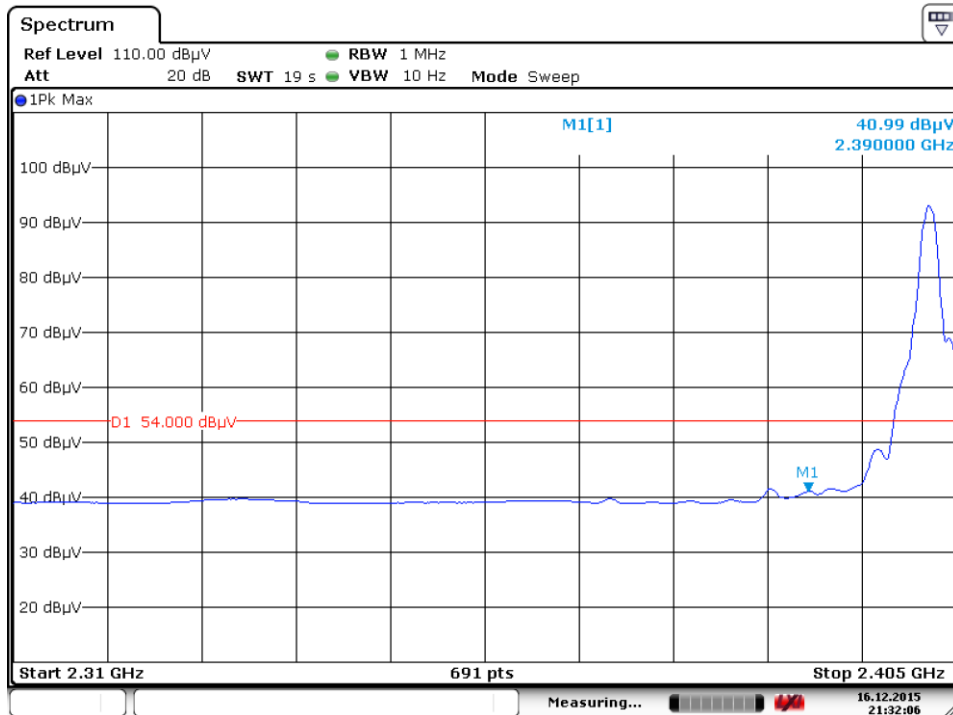
# Spurious Emissions, Band Edges, 2.35-2.5G

## Radiated Bandedge (GFSK)

### Low Channel (Hor)



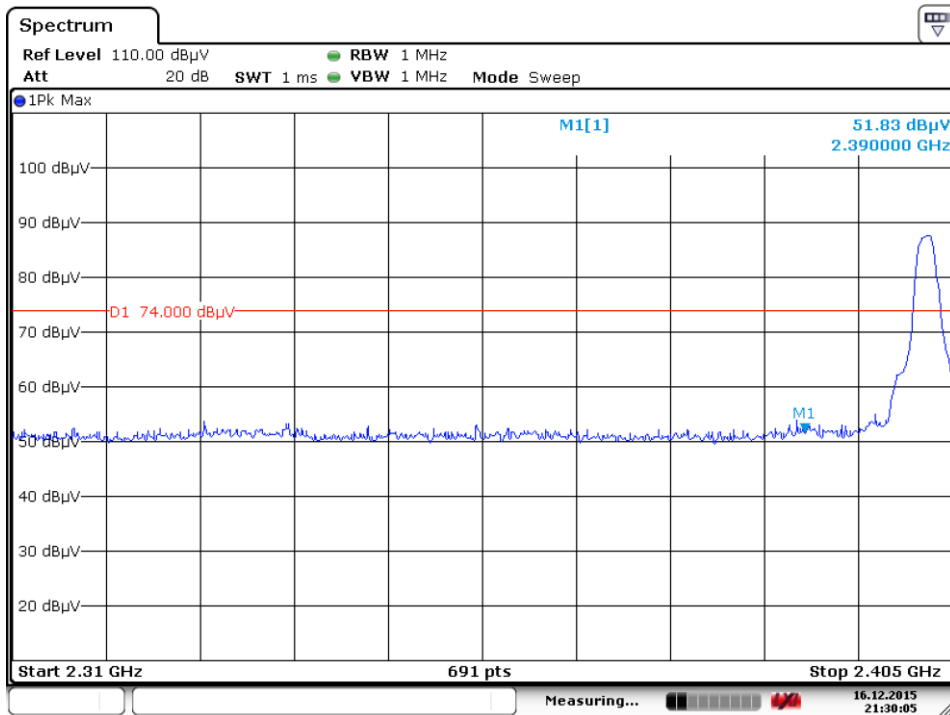
Date: 16.DEC.2015 21:31:29



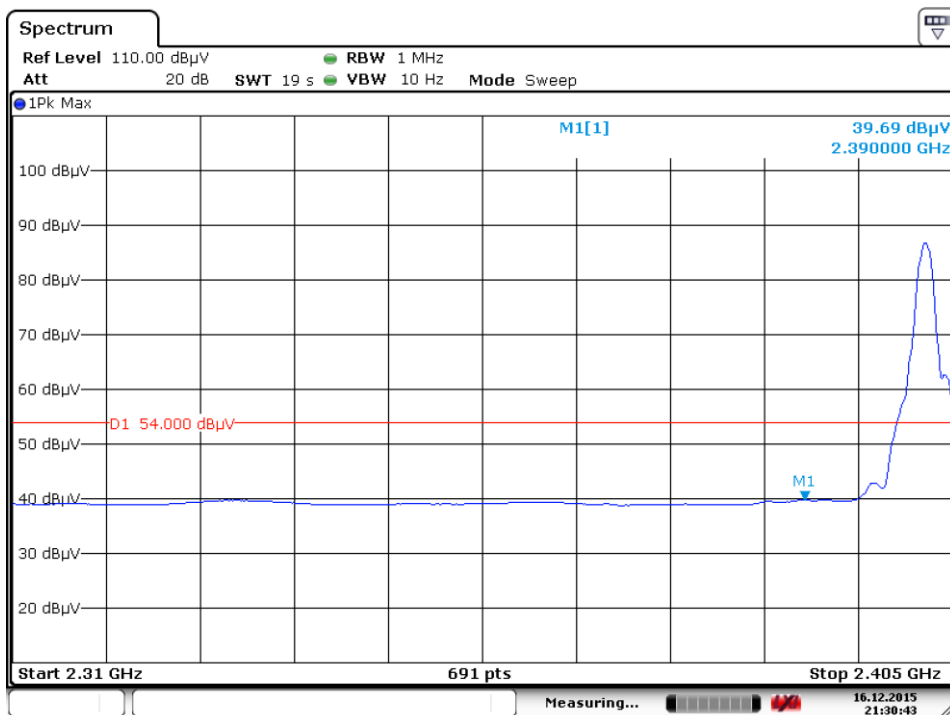
Date: 16.DEC.2015 21:32:07

# Spurious Emissions, Band Edge, 2.35-2.5G

## Low Channel (Ver)



Date: 16.DEC.2015 21:30:05

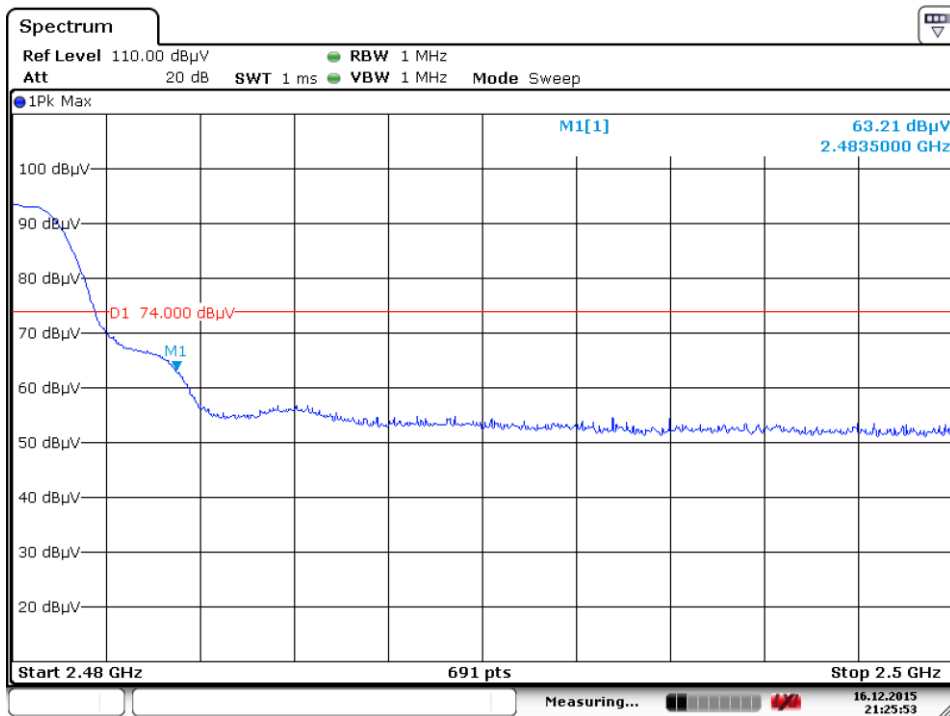


Date: 16.DEC.2015 21:30:44

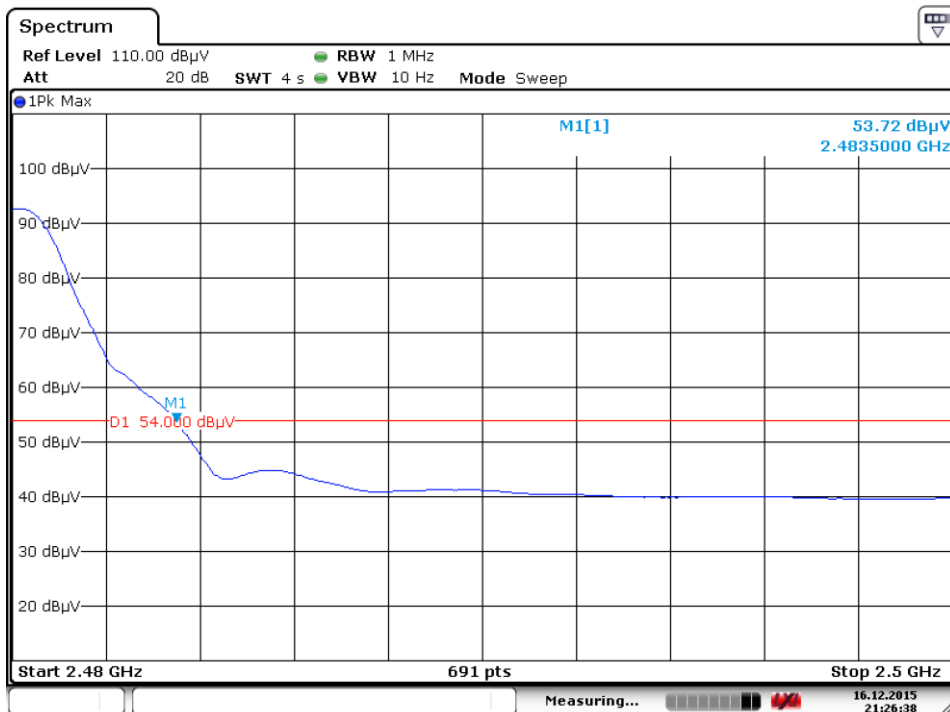
## Spurious Emissions, Band Edge, 2.35-2.5G

# Radiated Bandedge (GFSK)

## High Channel (Hor)



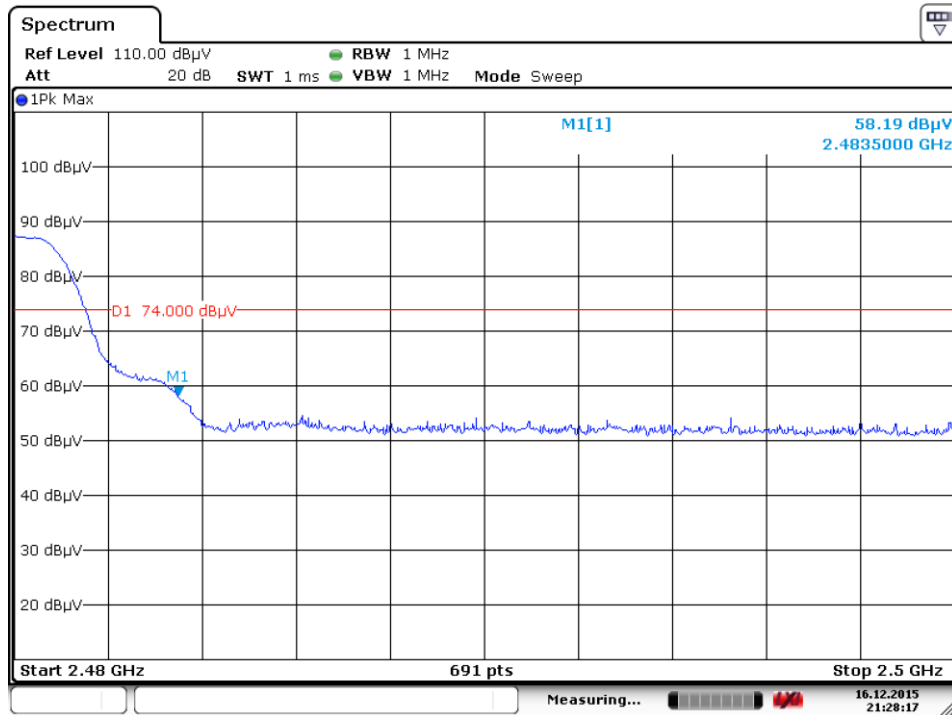
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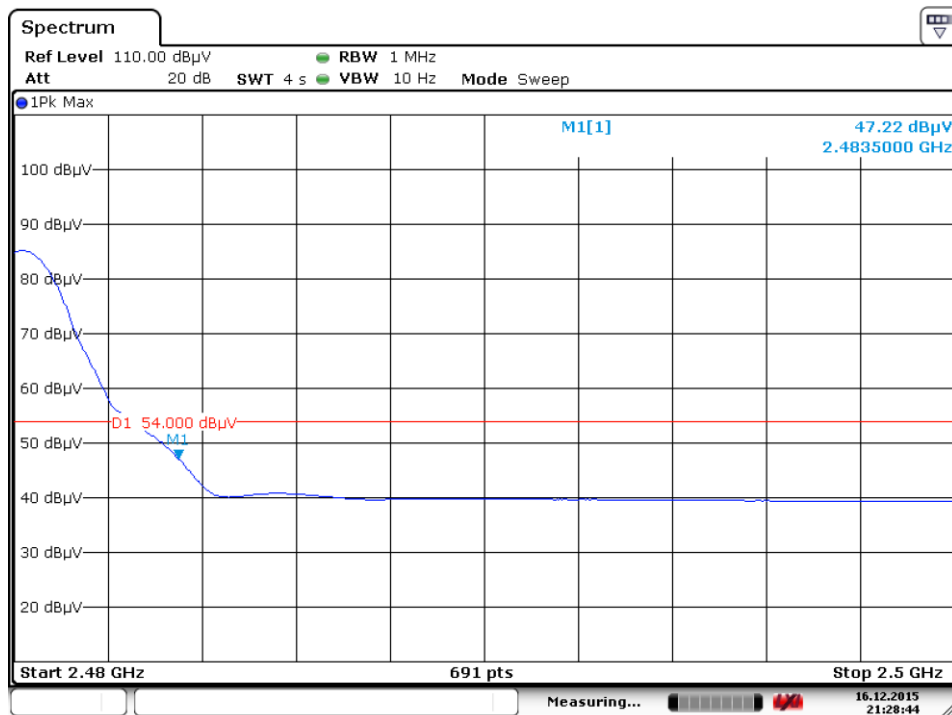
Date: 16.DEC.2015 21:26:38

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

## High Channel (Ver)



Date: 16.DEC.2015 21:28:18



Date: 16.DEC.2015 21:28:44

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

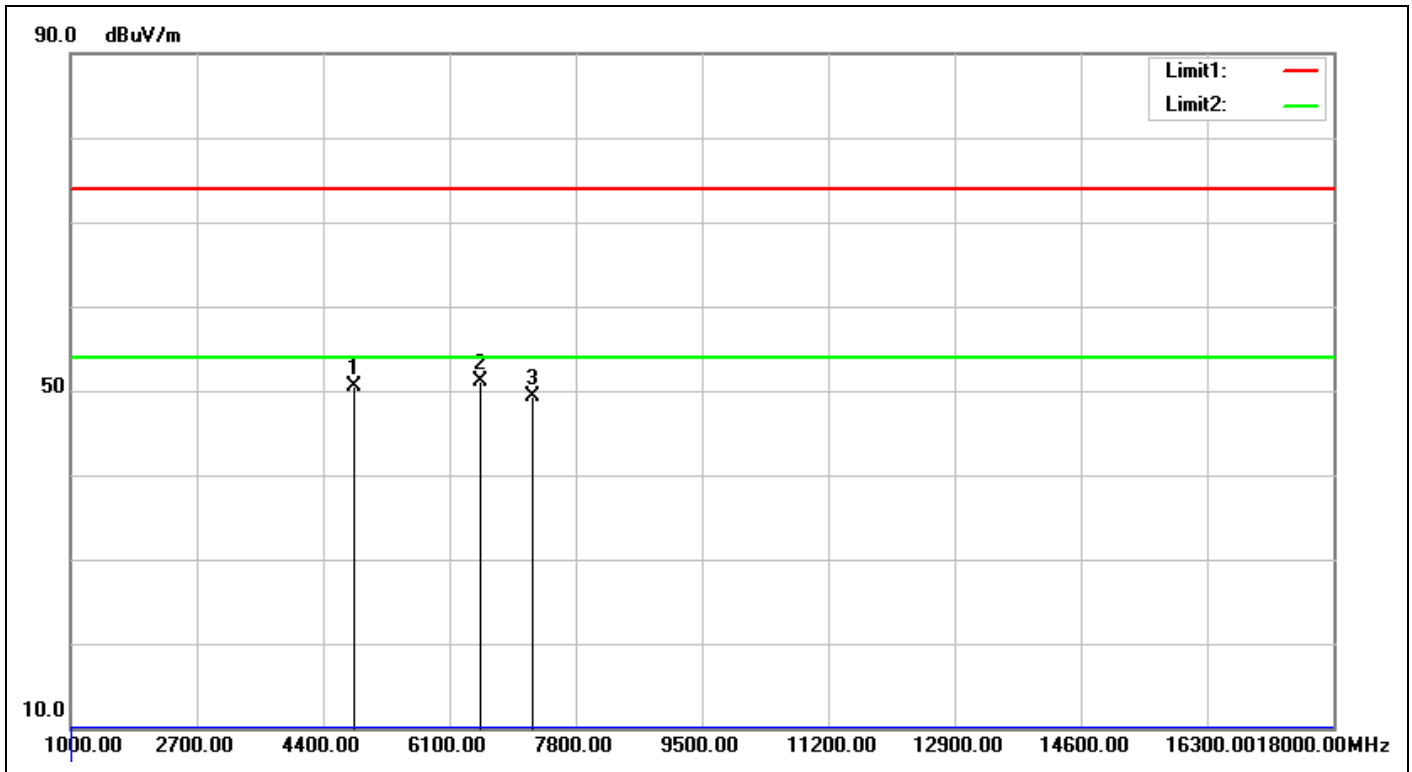
# Spurious Emissions, TX Mode, 1-18G



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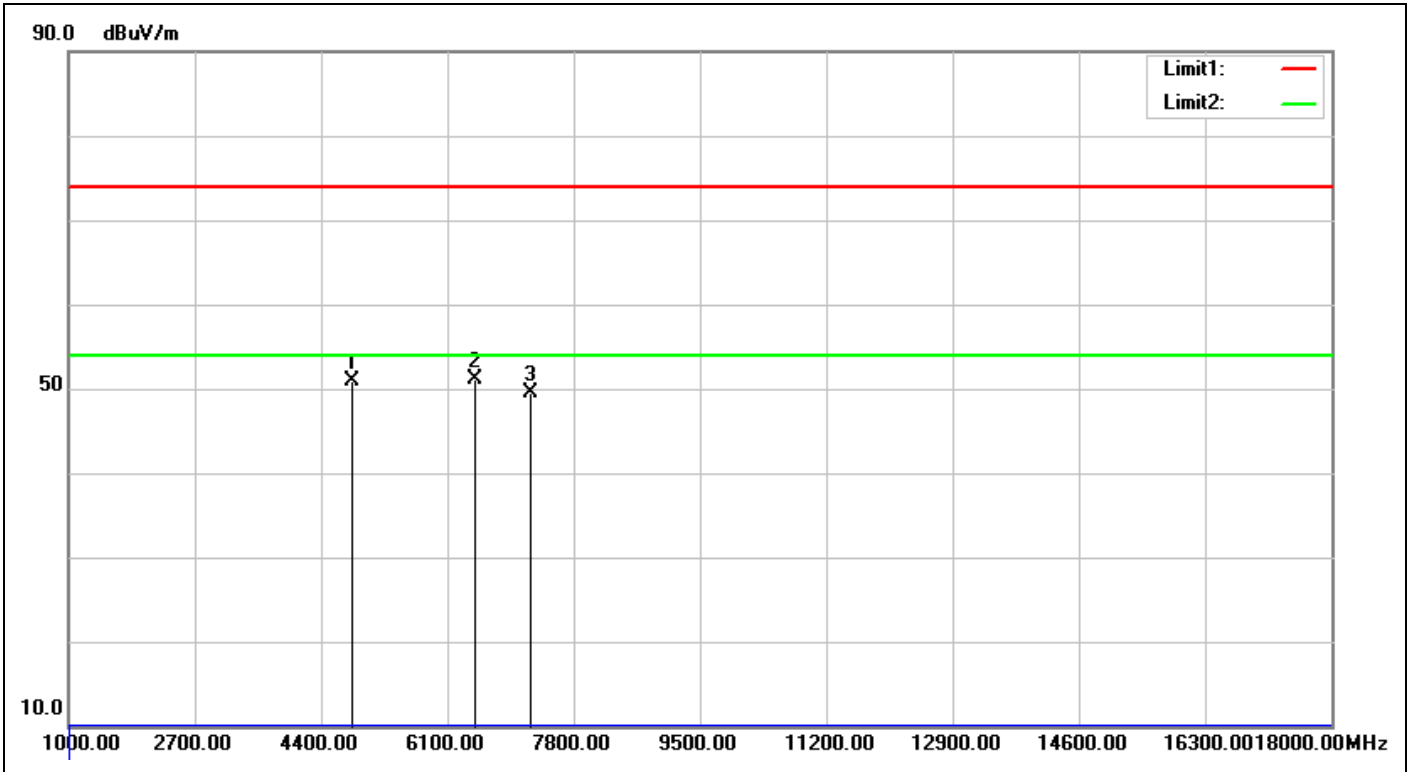
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



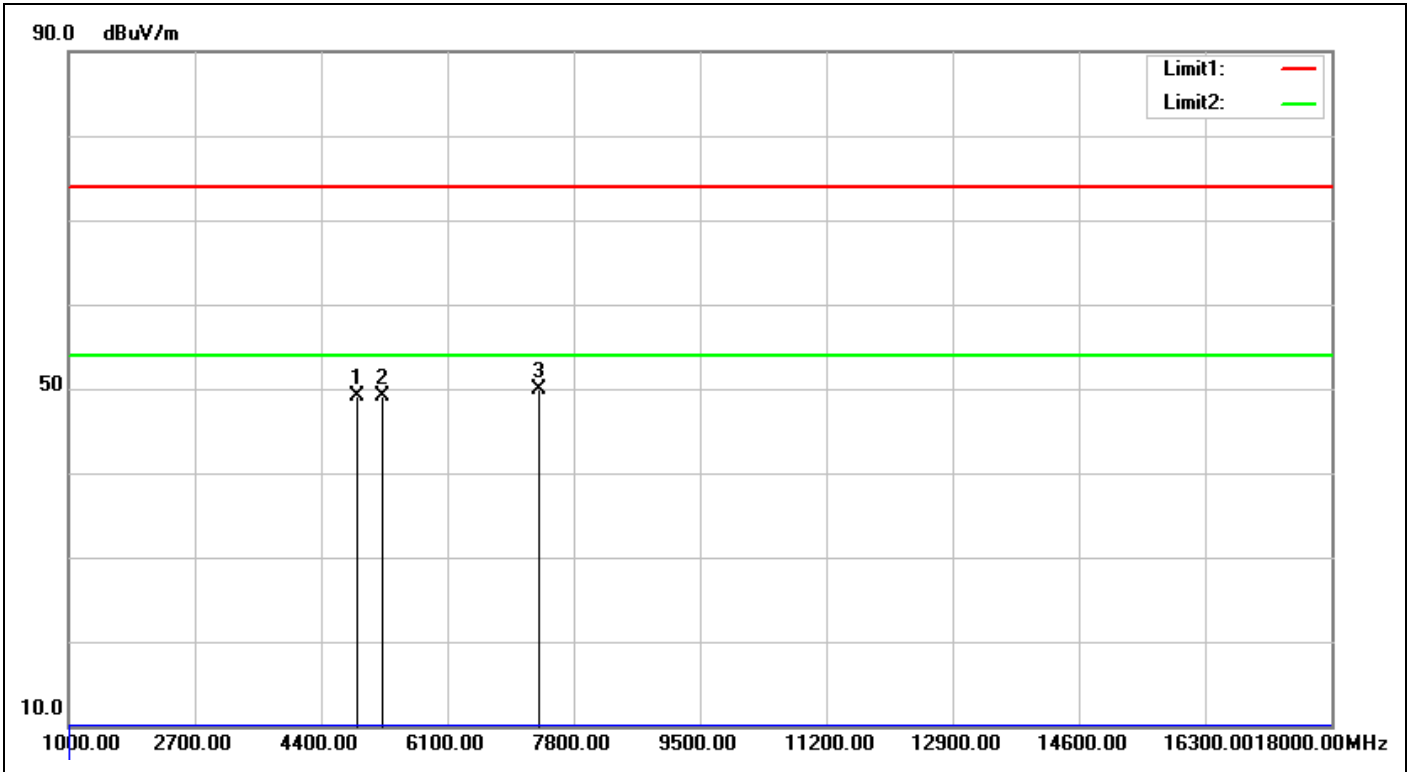
<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:37:03</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	4804.000	-2.28	52.72	50.44	74.00	-23.56	peak	100	191	
2	6508.000	6.00	45.07	51.07	74.00	-22.93	peak	100	63	
3	7206.000	5.77	43.53	49.30	74.00	-24.70	peak		0	



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:38:06</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2402-TX</b>		
<b>Remark:</b>			

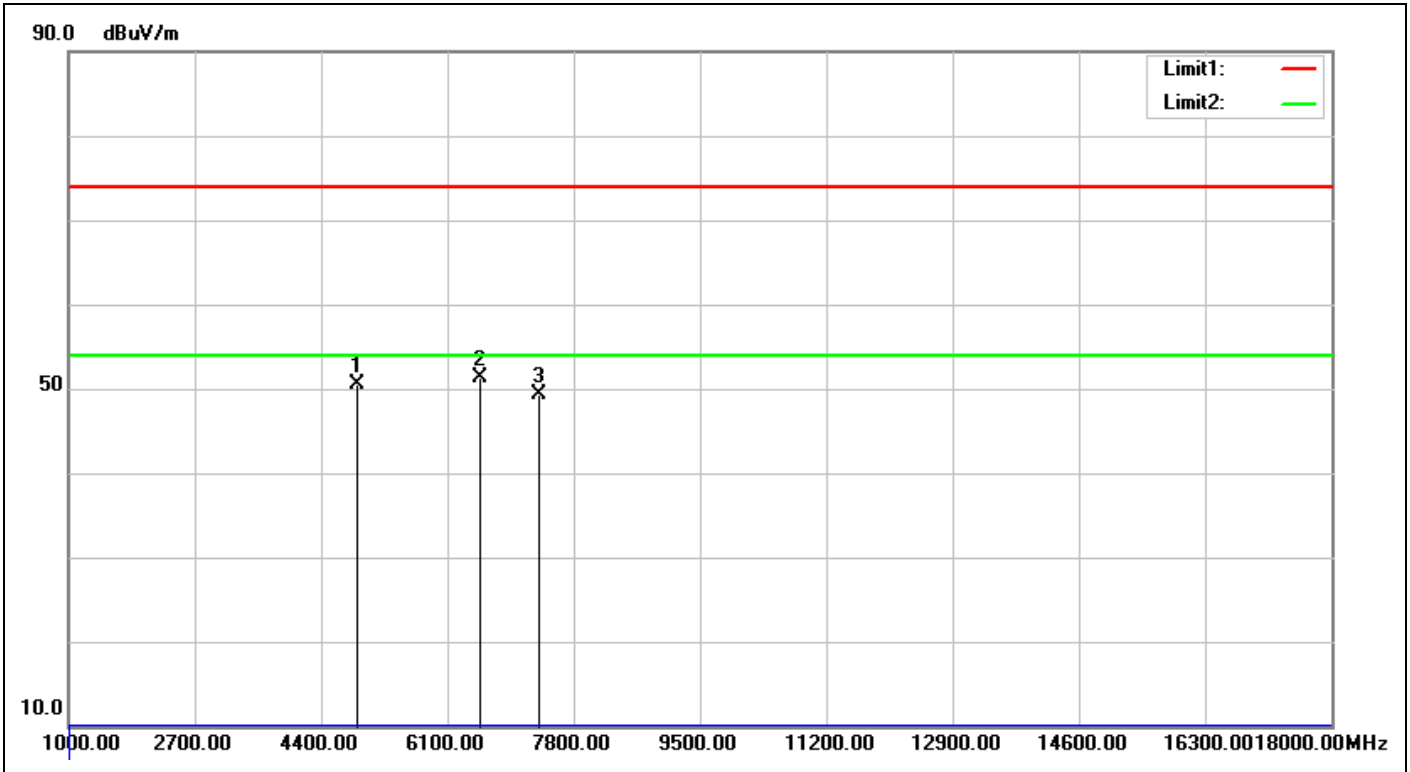
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	53.15	50.87	74.00	-23.13	peak	100	139	
2	6474.000	5.92	45.13	51.05	74.00	-22.95	peak	100	161	
3	7206.000	5.77	43.73	49.50	74.00	-24.50	peak			



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:41:08</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

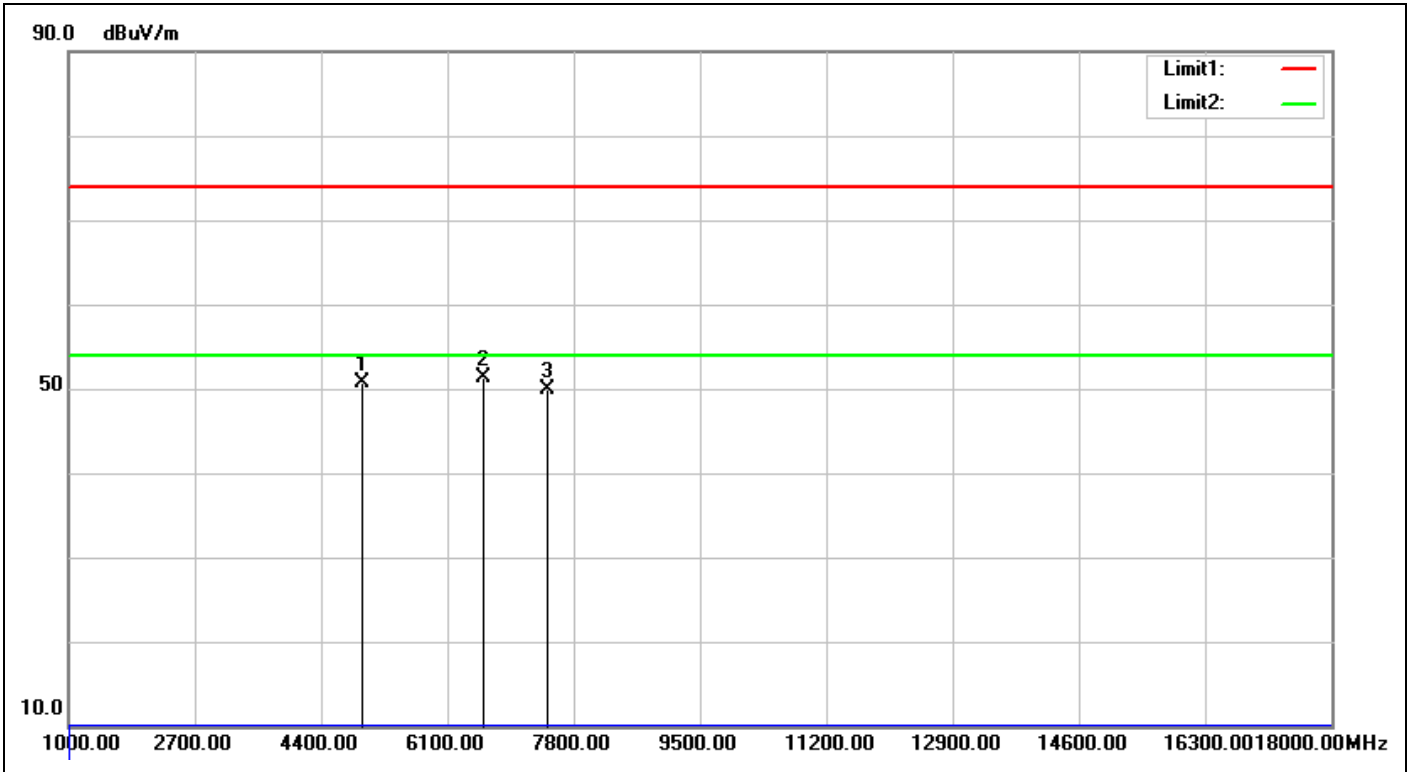
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4880.000	-2.10	51.23	49.13	74.00	-24.87	peak	100	196	
2	5233.000	-0.57	49.71	49.14	74.00	-24.86	peak	100	119	
3	7320.000	6.10	43.71	49.81	74.00	-24.19	peak			





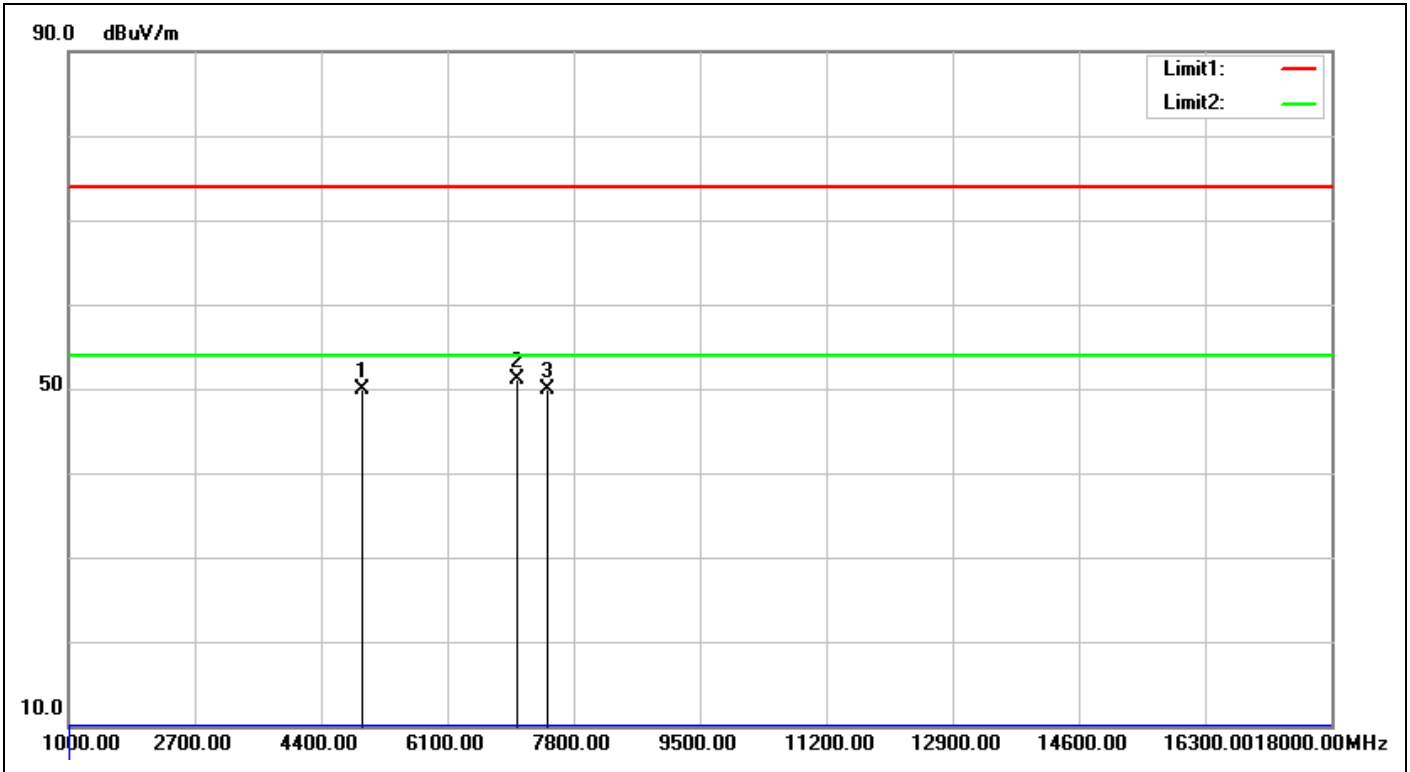
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<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:42:11</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	4880.000	-2.10	52.53	50.43	74.00	-23.57	peak	100	167	
2	6542.000	5.95	45.35	51.30	74.00	-22.70	peak	100	100	
3	7320.000	6.10	43.30	49.40	74.00	-24.60	peak			



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:45:15</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	4960.000	-1.91	52.68	50.77	74.00	-23.23	peak	100	133	
2	6576.000	5.90	45.47	51.37	74.00	-22.63	peak	100	97	
3	7440.000	6.44	43.37	49.81	74.00	-24.19	peak			



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:46:17</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	4960.000	-1.91	51.88	49.97	74.00	-24.03	peak	100	128	
2	7035.000	5.27	45.84	51.11	74.00	-22.89	peak	100	67	
3	7440.000	6.44	43.51	49.95	74.00	-24.05	peak			

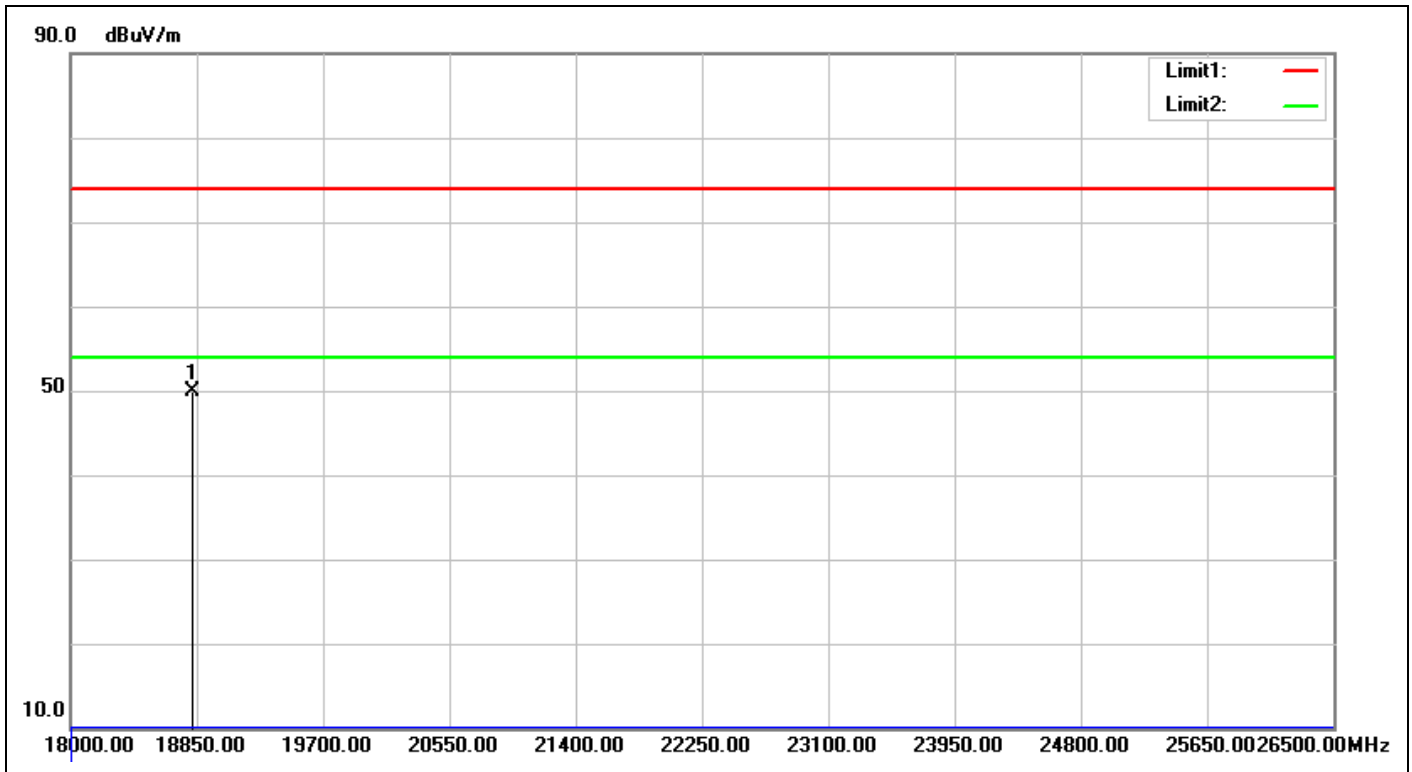
# Spurious Emissions, TX Mode, 18-26G



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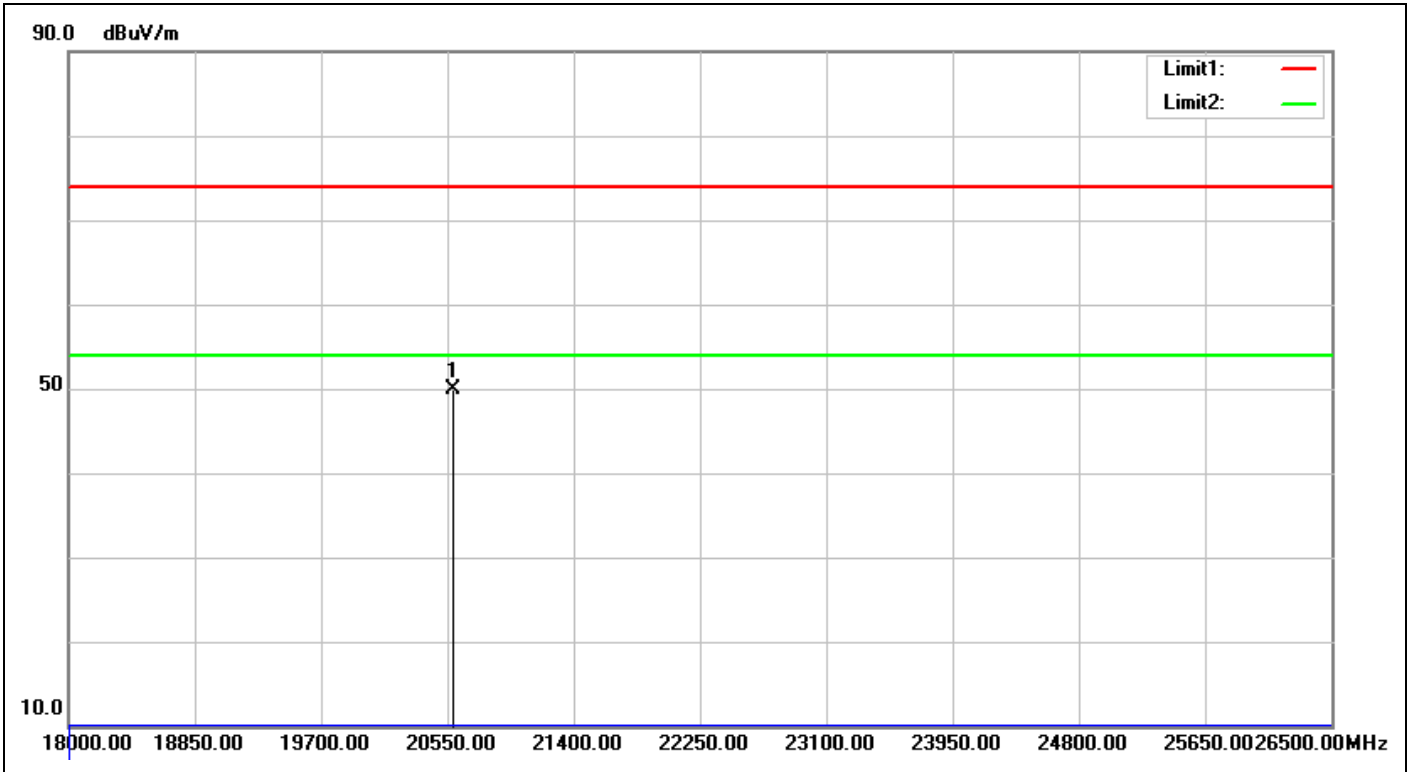
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



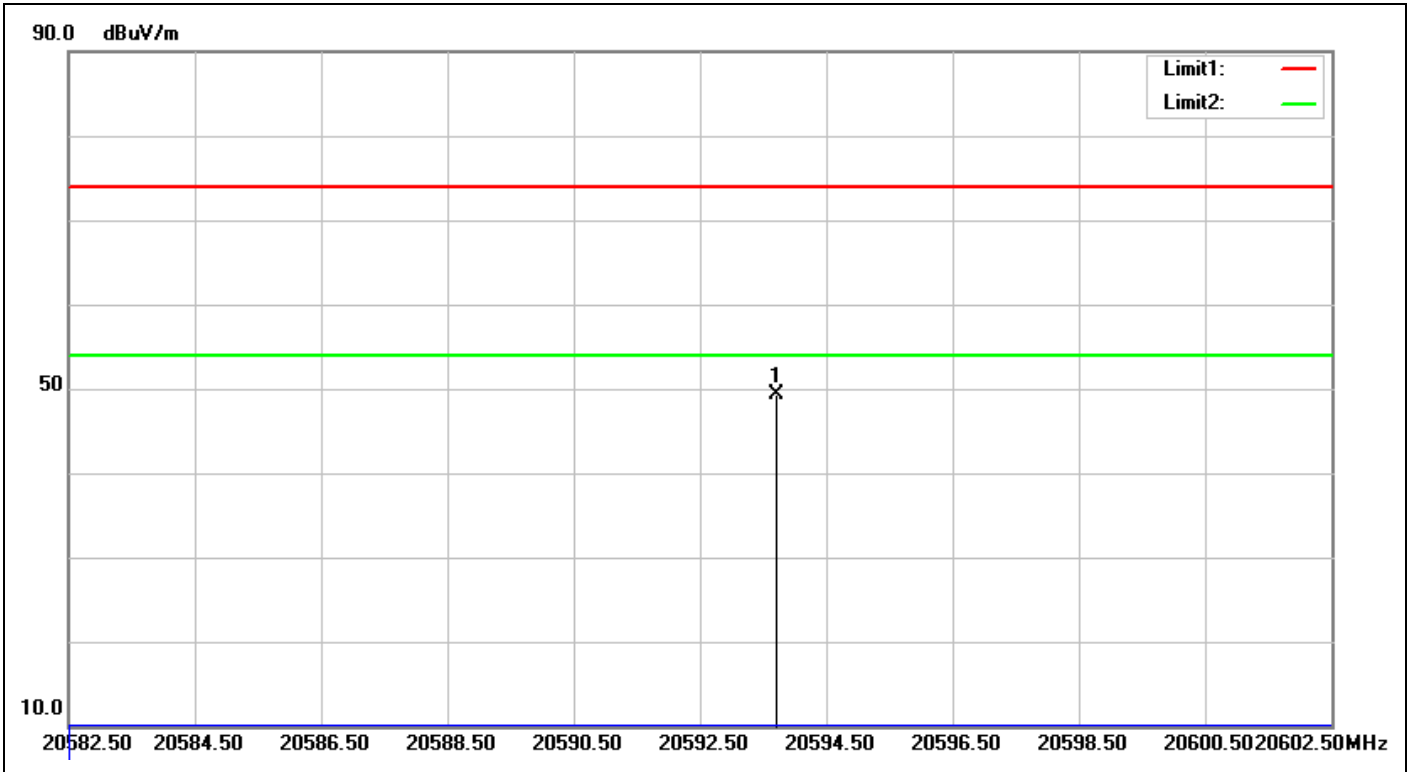
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<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:05:11</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	18816.000	29.26	20.70	49.96	74.00	-24.04	peak		0	



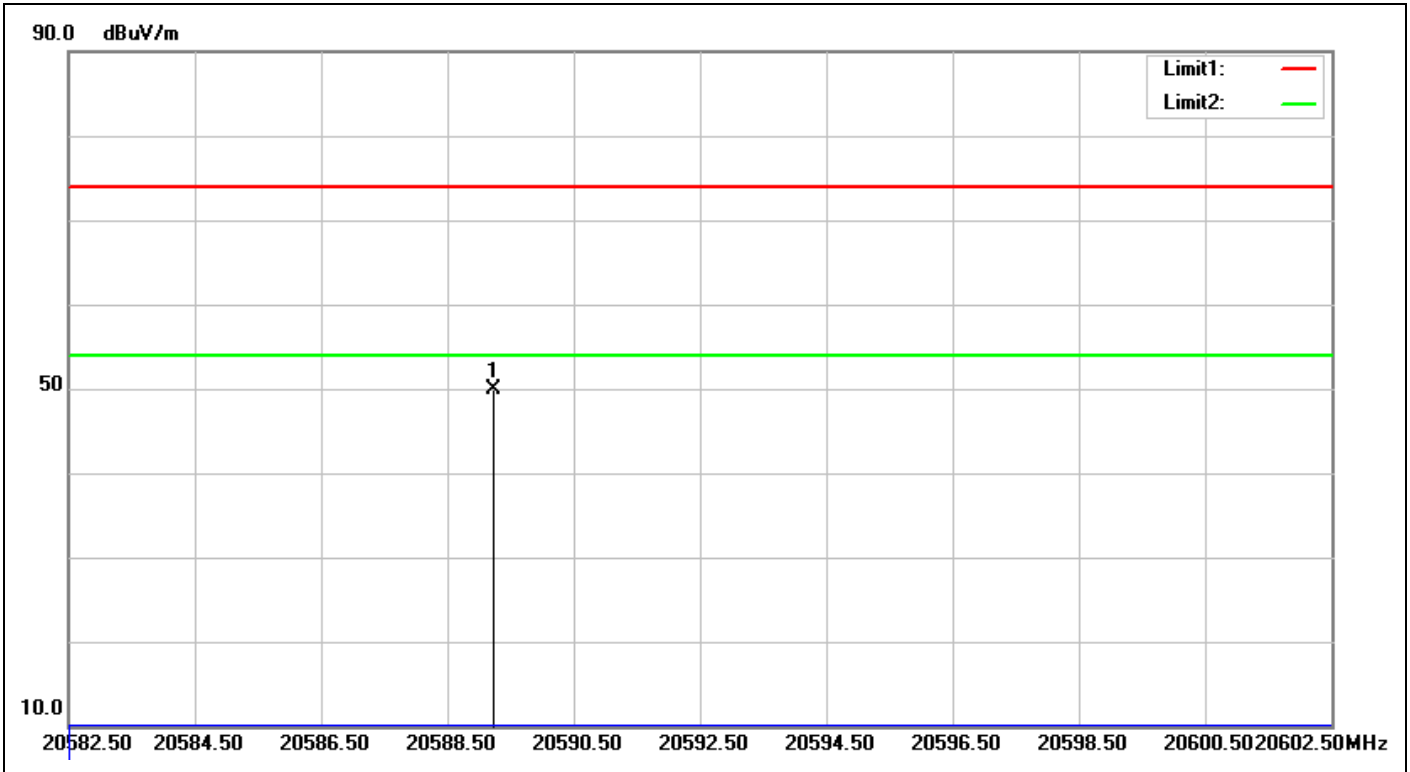
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<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:06:13</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	20592.500	29.88	20.08	49.96	74.00	-24.04	peak			



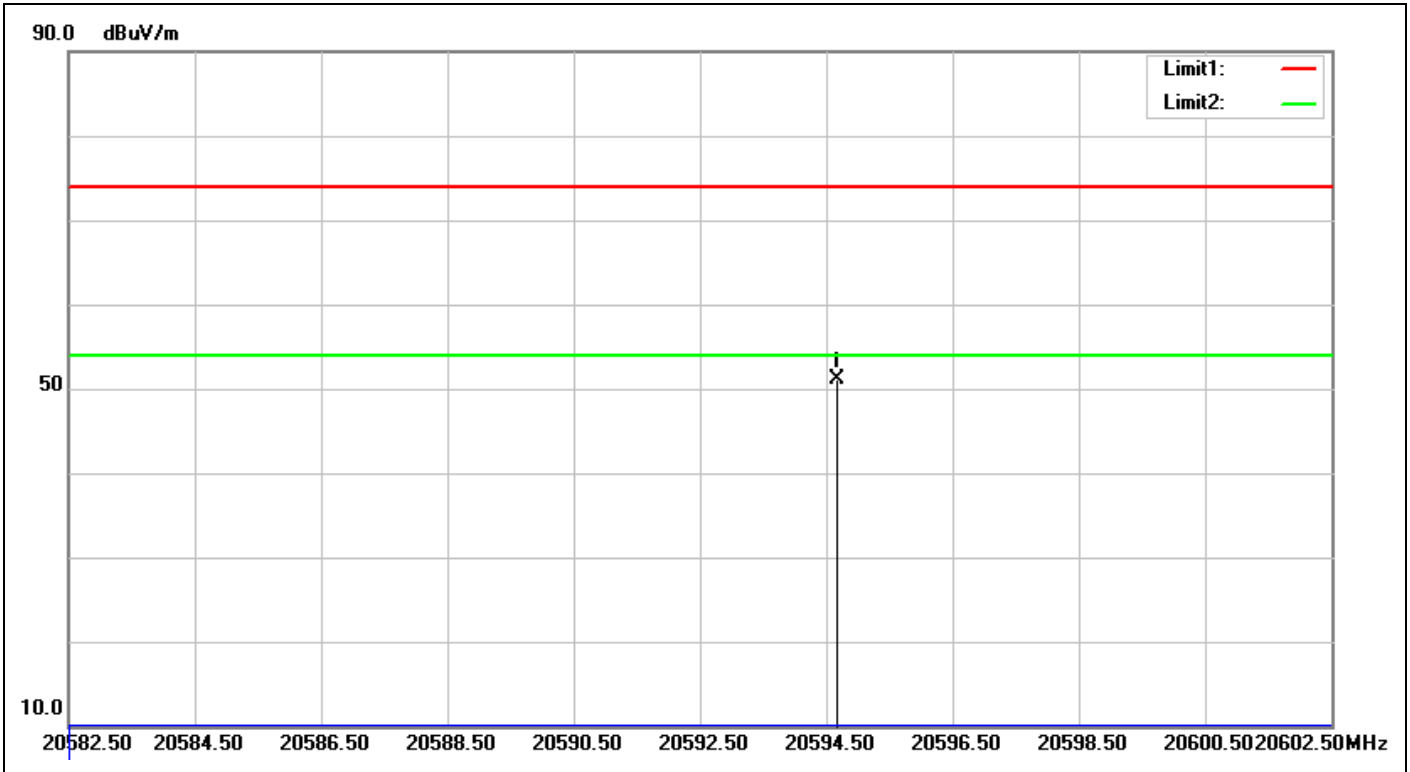
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<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:07:37</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	20593.700	29.88	19.52	49.40	74.00	-24.60	peak			



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:07:56</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-TX</b>		
<b>Remark:</b>			

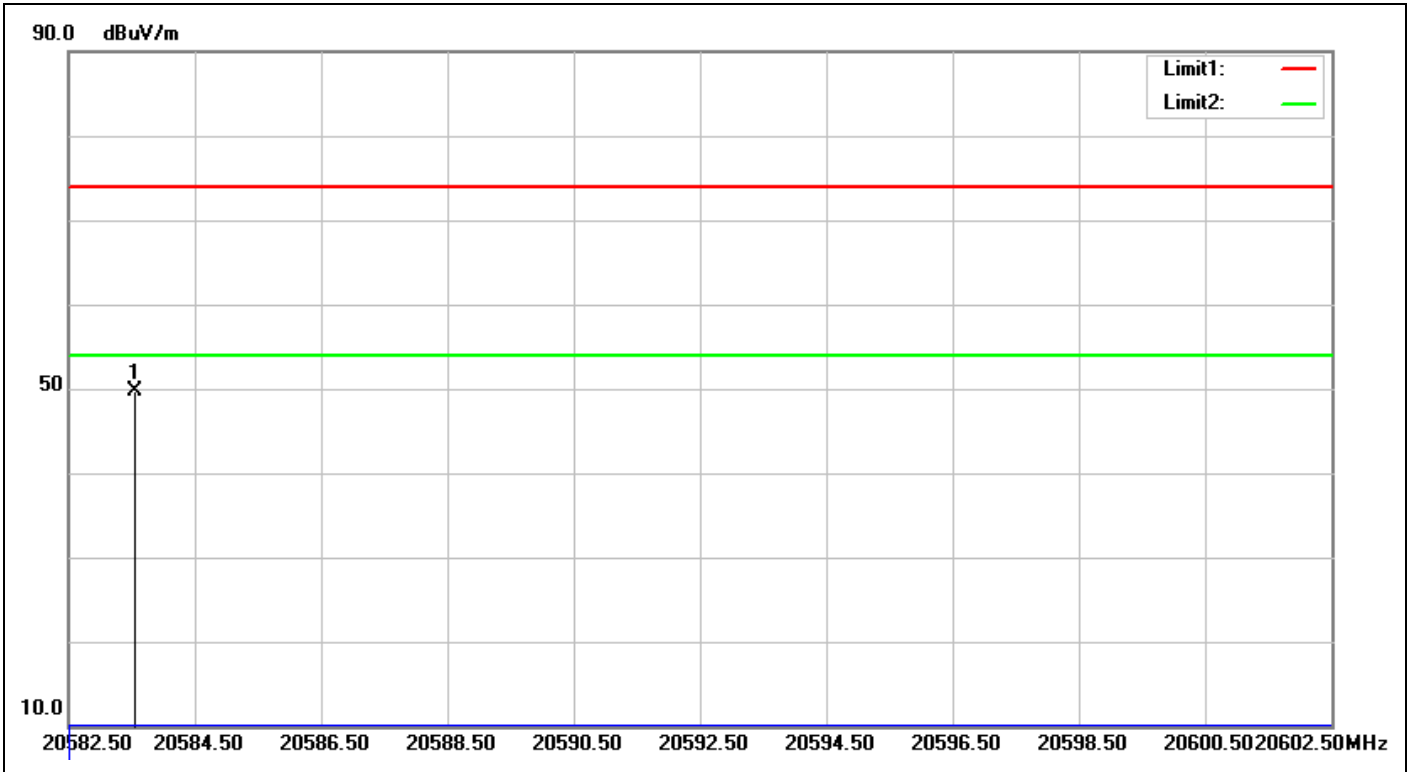
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20589.240	29.88	20.10	49.98	74.00	-24.02	peak			



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:08:45</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	20594.640	29.89	21.27	51.16	74.00	-22.84	peak			





<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:08:59</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</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	20583.540	29.88	19.77	49.65	74.00	-24.35	peak			

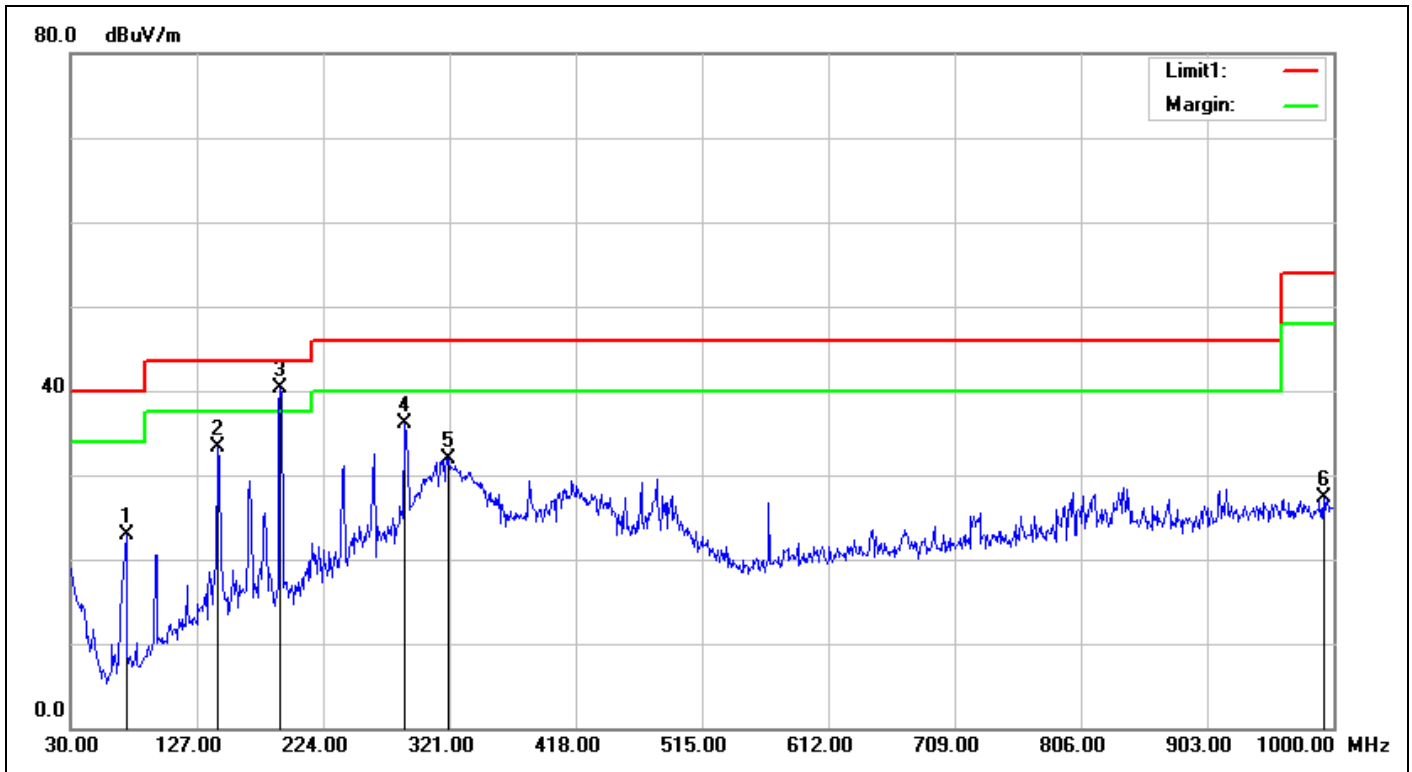
# Spurious Emissions, TX Mode, 30M-1G



TUV Taiwan

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

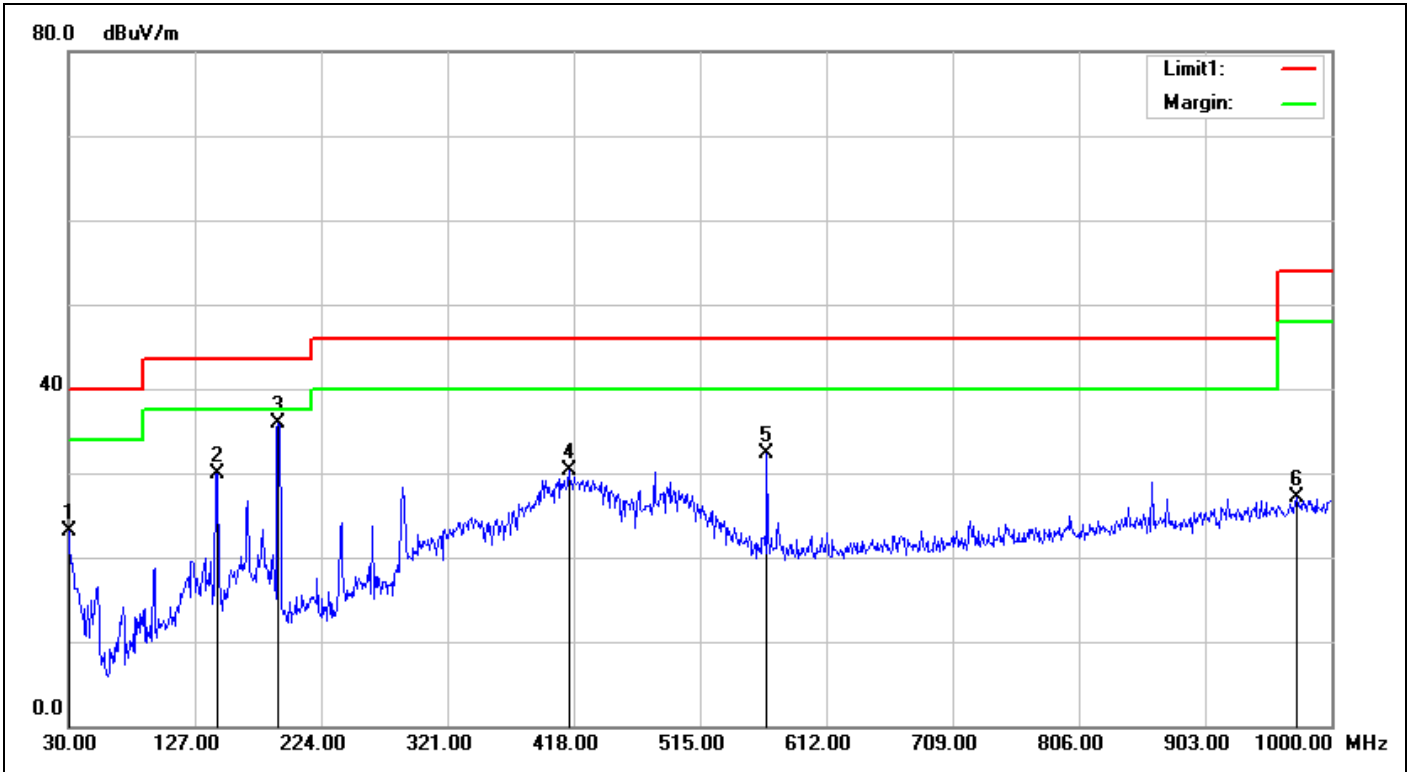
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114043497	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/11/27 19:20:14
Applicant:	REYAX	Test Rating:	DC 5V
Product:	2.4GHz Bluetooth Low Energy Module with Integrated Antenna	Temp.(°C)/Hum.(%):	22(°C)/57%
Model No.:	RYB070I	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	72.6800	-18.53	41.49	22.96	40.00	-17.04	QP	100	296	
2	143.4900	-12.89	46.24	33.35	43.50	-10.15	QP	100	232	
3	191.0200	-15.33	55.73	40.40	43.50	-3.10	QP	100	243	
4	286.0799	-10.82	46.86	36.04	46.00	-9.96	QP	100	163	
5	320.0299	-10.04	41.98	31.94	46.00	-14.06	QP	100	224	
6	992.2400	-0.07	27.40	27.33	54.00	-26.67	QP	100	35	

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



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Class B 3M Radiation</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/11/27 19:21:18</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>22(°C)/57%</b>
<b>Model No.:</b>	<b>RYB070I</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	30.0000	-5.85	28.86	23.01	40.00	-16.99	QP	100	6	
2	144.4600	-12.95	42.95	30.00	43.50	-13.50	QP	100	315	
3	191.0200	-15.33	51.31	35.98	43.50	-7.52	QP	100	187	
4	414.1200	-8.50	38.85	30.35	46.00	-15.65	QP	100	240	
5	566.4099	-6.66	38.97	32.31	46.00	-13.69	QP	100	147	
6	973.8100	-0.27	27.33	27.06	54.00	-26.94	QP	100	320	

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

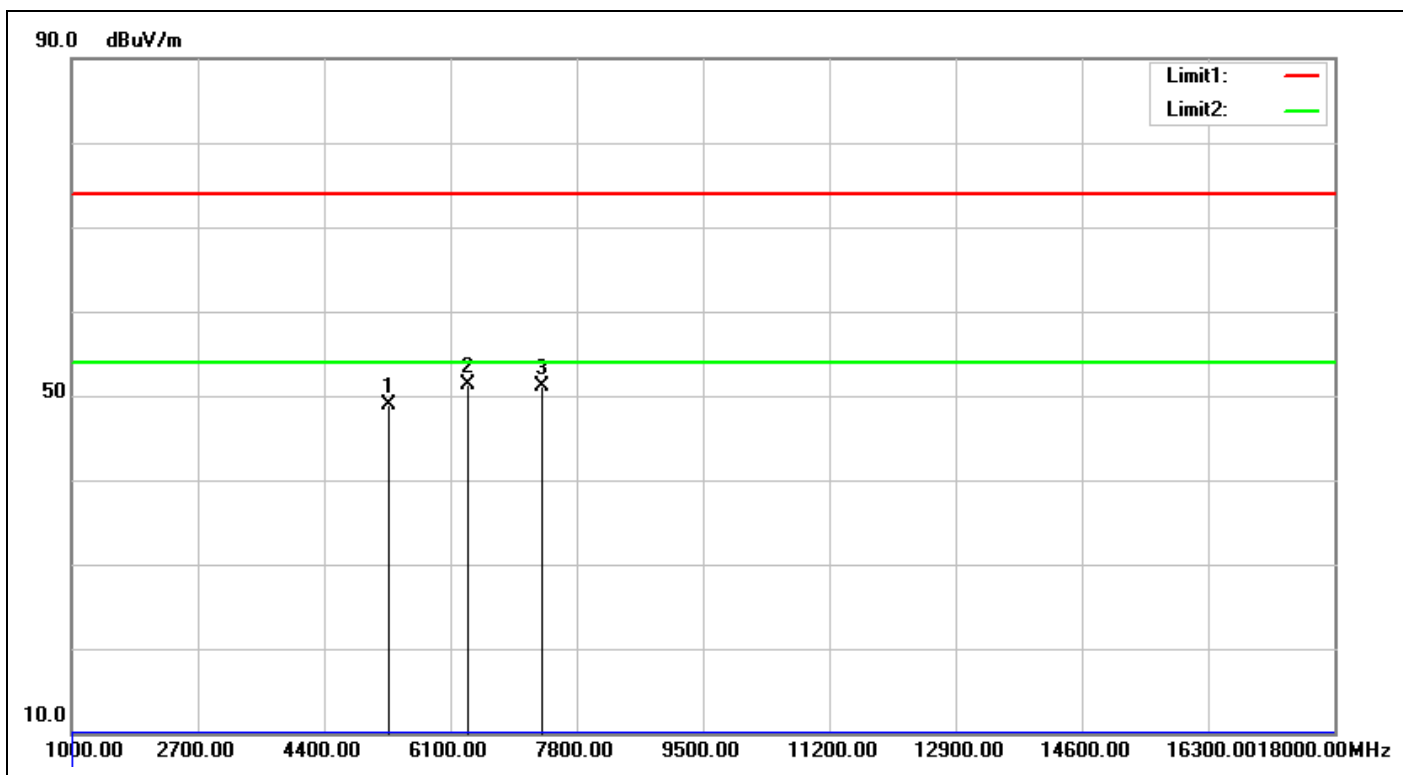
# Spurious Emissions, RX Mode, 1-18G



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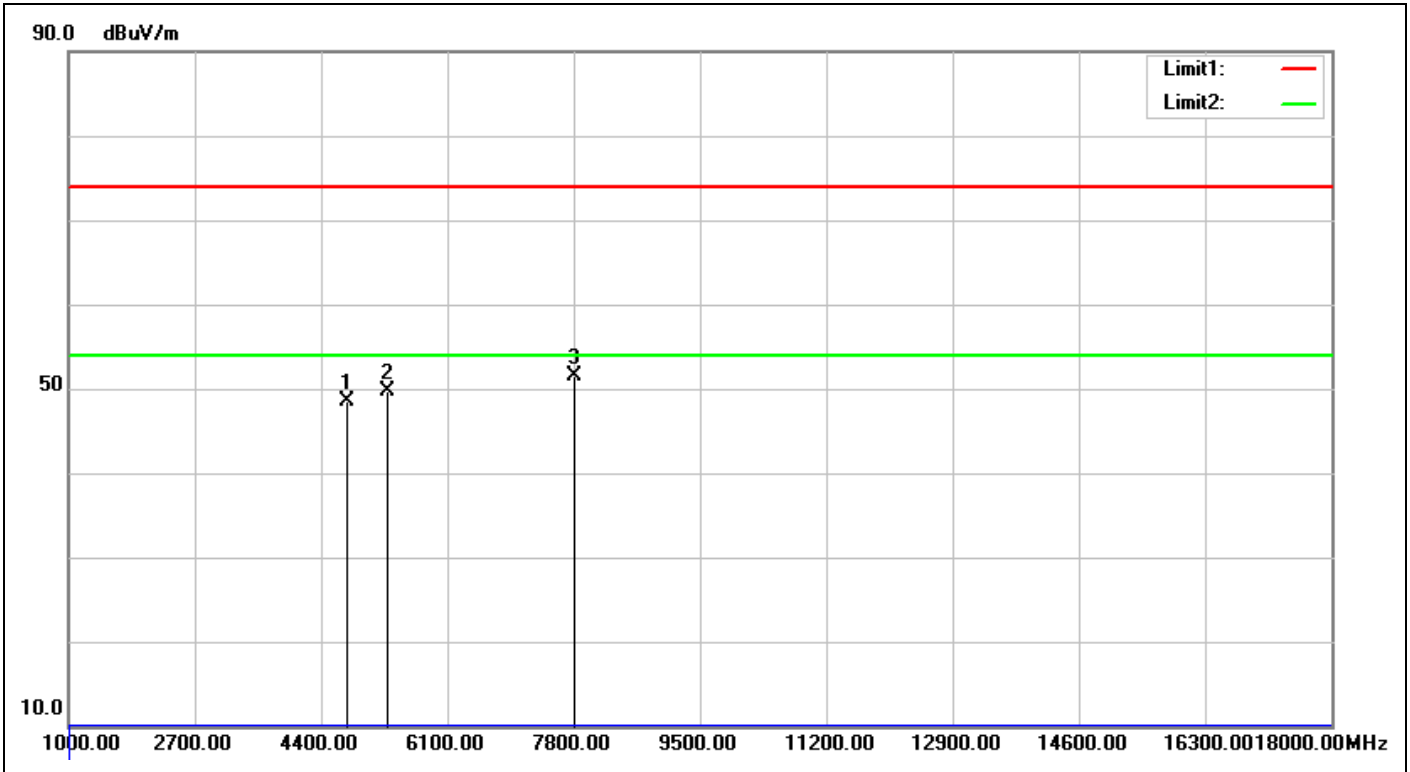
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:50:47</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-RX</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	5267.000	-0.39	49.33	48.94	74.00	-25.06	peak	100	343	
2	6338.000	5.41	45.88	51.29	74.00	-22.71	peak	100	141	
3	7341.000	6.16	45.04	51.20	74.00	-22.80	peak	100	174	



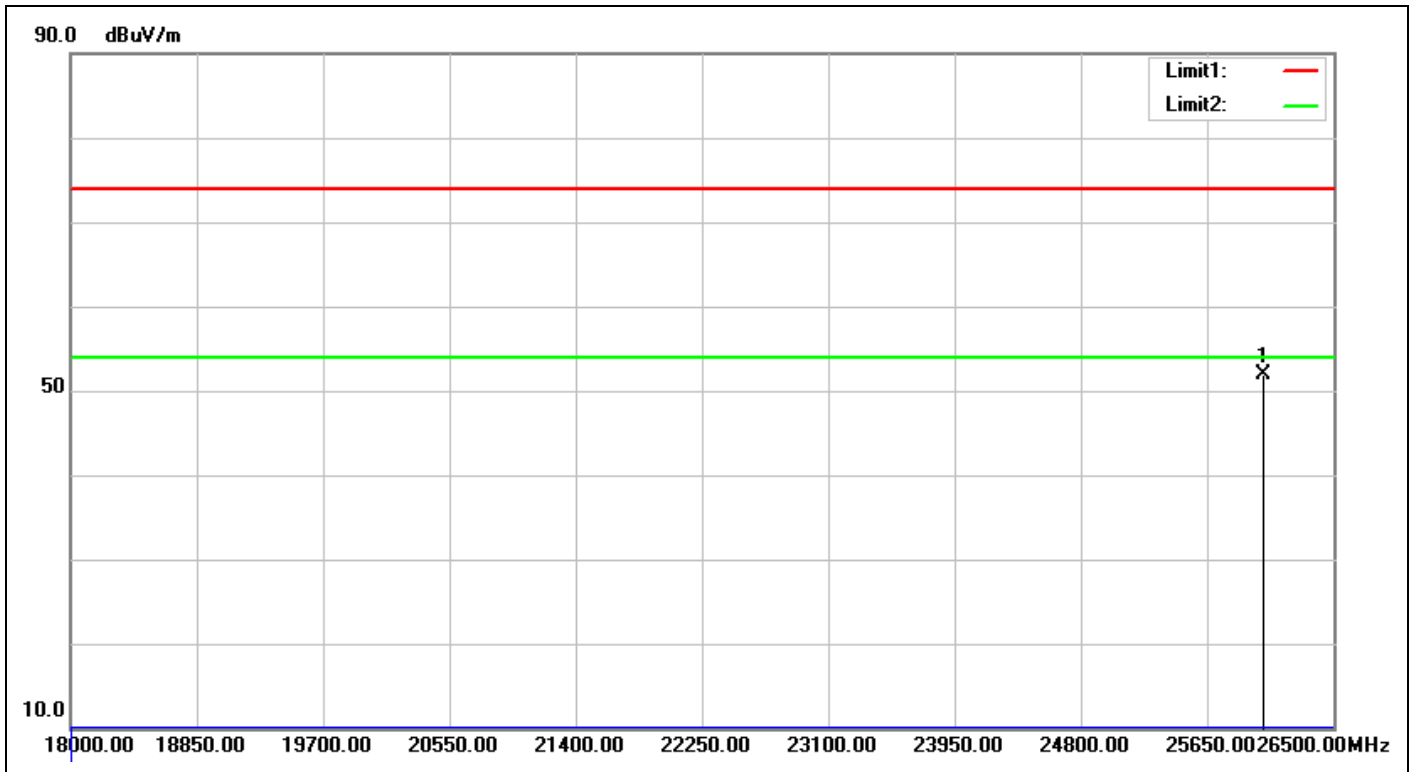
<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 21:51:50</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-RX</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	4740.000	-2.42	50.87	48.45	74.00	-25.55	peak	100	195	
2	5284.000	-0.30	50.03	49.73	74.00	-24.27	peak	100	286	
3	7817.000	6.58	44.95	51.53	74.00	-22.47	peak	100	34	

# Spurious Emissions, RX Mode, 18-26G

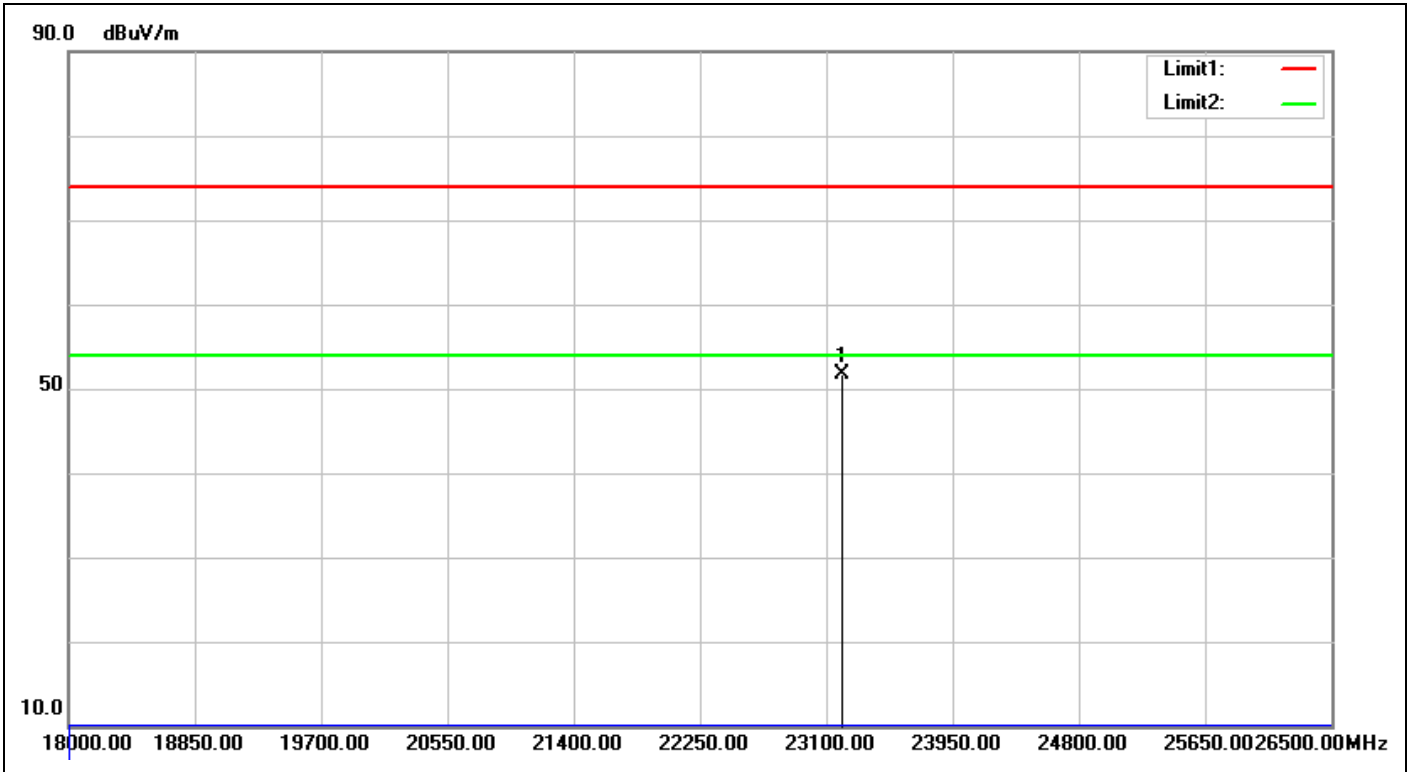


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 Tel:+886-2172-7000 fax:+886-2528-0018



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:00:59</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-RX</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	26032.500	32.39	19.54	51.93	74.00	-22.07	peak			



<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>NCC Above 1G PEAK</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/12/16 22:02:01</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>21.3(°C)/60%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-RX</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	23210.500	30.29	21.37	51.66	74.00	-22.34	peak			

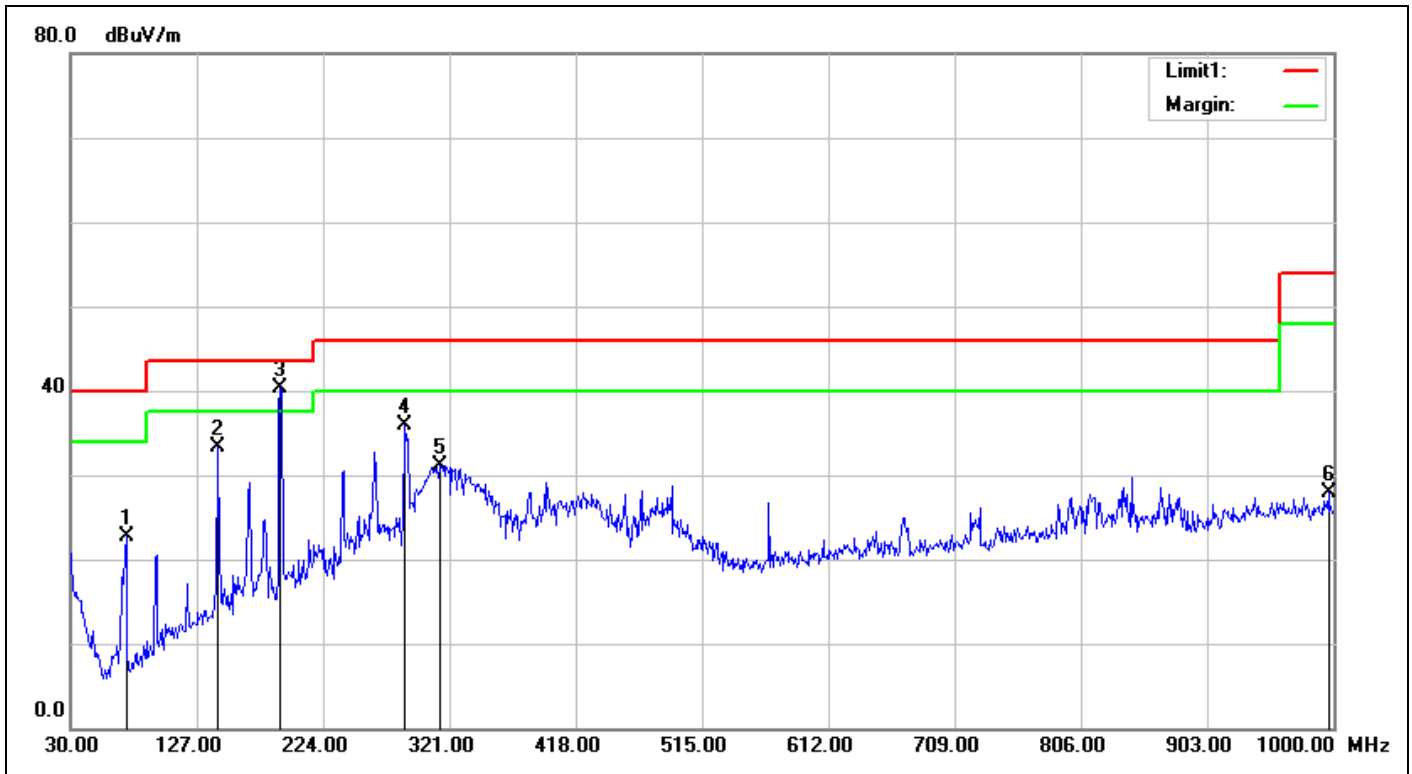
# Spurious Emissions, RX Mode, 30M-1G



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

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

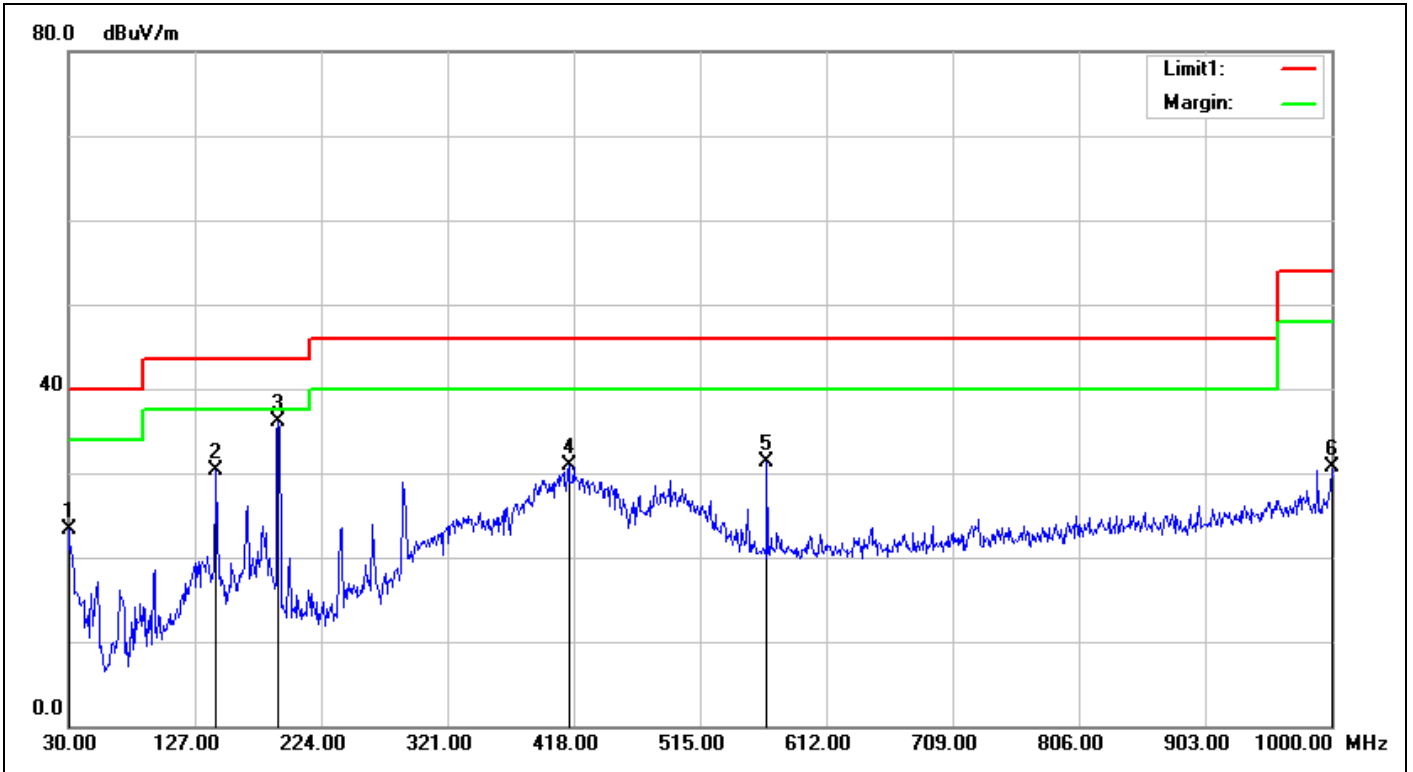


<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Class B 3M Radiation</b>	<b>Ant. Polarization:</b>	<b>Horizontal</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/11/27 19:24:25</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>22(°C)/57%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-RX</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	72.6800	-18.53	41.18	22.65	40.00	-17.35	QP	100	123	
2	143.4900	-12.89	46.28	33.39	43.50	-10.11	QP	100	227	
3	191.0200	-15.33	55.67	40.34	43.50	-3.16	QP	100	232	
4	287.0500	-10.77	46.60	35.83	46.00	-10.17	QP	100	153	
5	314.2099	-10.17	41.31	31.14	46.00	-14.86	QP	100	230	
6	996.1200	-0.03	27.99	27.96	54.00	-26.04	QP	100	285	

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



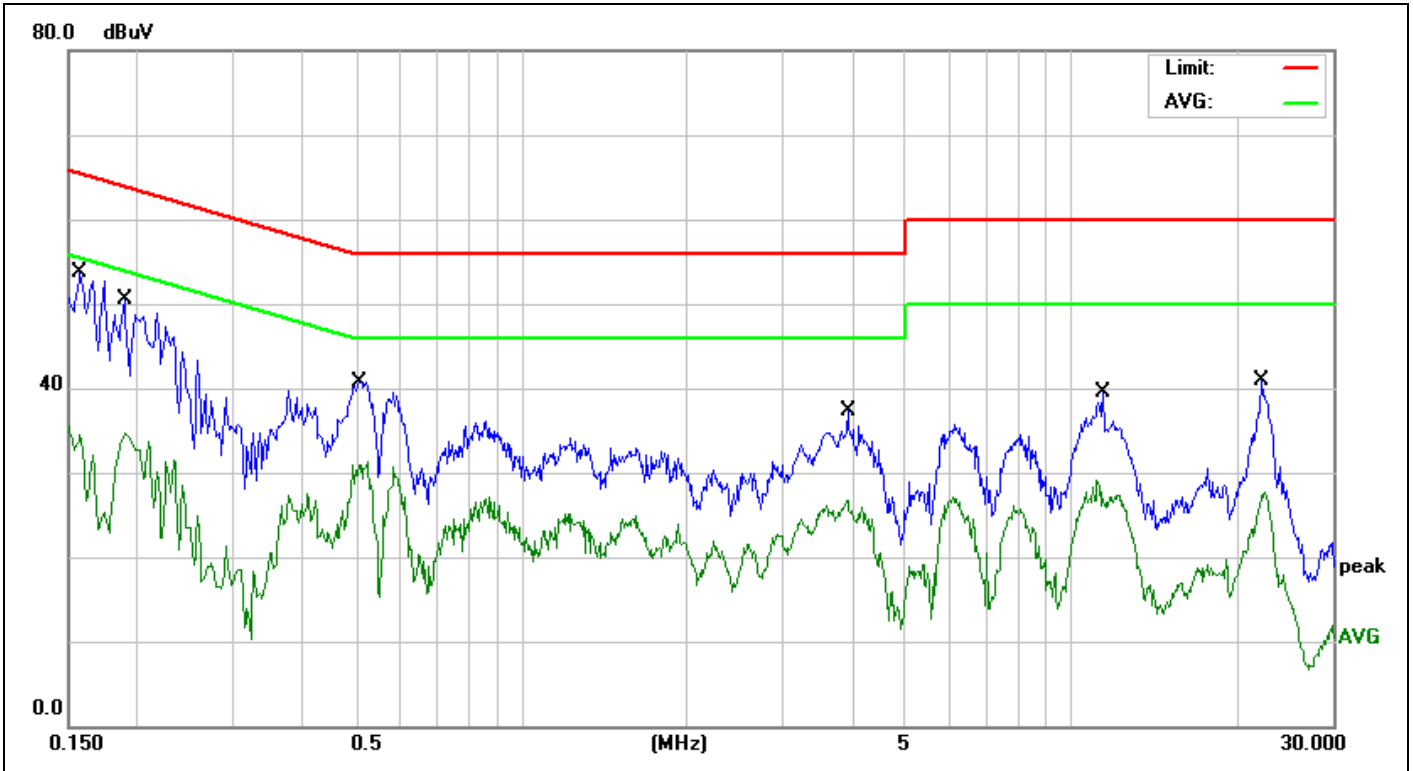


<b>Service No.:</b>	<b>114043497</b>	<b>Test Distance:</b>	<b>3m</b>
<b>Test Standard:</b>	<b>FCC Class B 3M Radiation</b>	<b>Ant. Polarization:</b>	<b>Vertical</b>
<b>Test item:</b>	<b>Radiation Emission</b>	<b>Test Time:</b>	<b>2015/11/27 19:25:28</b>
<b>Applicant:</b>	<b>REYAX</b>	<b>Test Rating:</b>	<b>DC 5V</b>
<b>Product:</b>	<b>2.4GHz Bluetooth Low Energy Module with Integrated Antenna</b>	<b>Temp.(°C)/Hum.(%):</b>	<b>22(°C)/57%</b>
<b>Model No.:</b>	<b>RYB070I</b>	<b>Test Engineer:</b>	<b>George Yang</b>
<b>Test Mode:</b>	<b>2440-RX</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	30.0000	-5.85	29.12	23.27	40.00	-16.73	QP	100	352	
2	143.4900	-12.89	43.11	30.22	43.50	-13.28	QP	100	315	
3	191.0200	-15.33	51.36	36.03	43.50	-7.47	QP	100	181	
4	414.1200	-8.50	39.31	30.81	46.00	-15.19	QP	100	179	
5	566.4099	-6.66	38.05	31.39	46.00	-14.61	QP	100	147	
6	1000.0000	0.01	30.70	30.71	54.00	-23.29	QP	100	256	

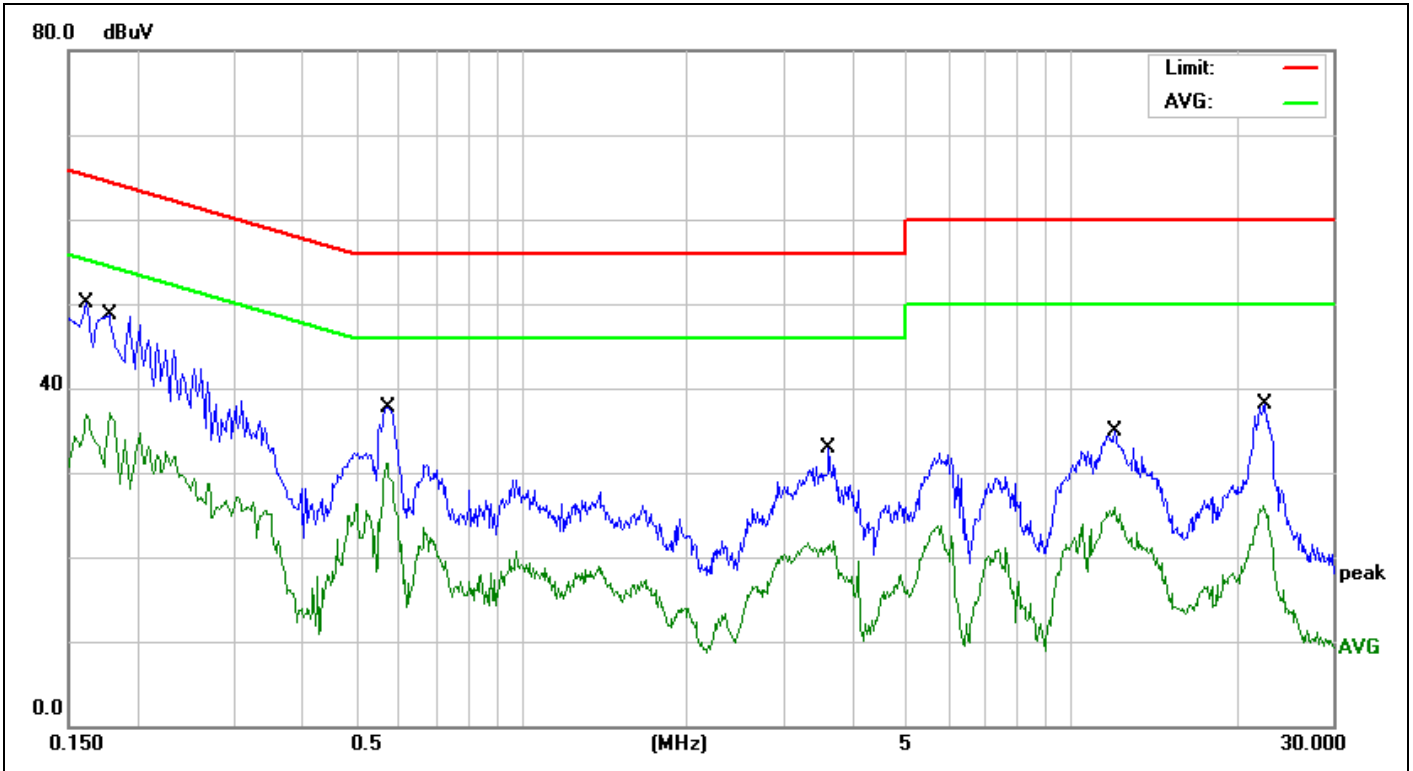
**Spurious Emissions, RX Mode, 30M-1G**

# Mains Spurious Emissions



**Service No.:** 114043497  
**Test Standard:** FCC Class B Conduction(QP) **Probe:** L1  
**Test item:** Conduction Emission **Test Time:** 2015/11/27 15:48:33  
**Applicant:** REYAX **Test Rating:** DC 5V  
**Product:** 2.4GHz Bluetooth Low Energy Module with Integrated Antenna **Temp.(°C)/Hum.(%):** 20.9(°C)/49%  
**Model No.:** RYB070I **Test Engineer:** George Yang  
**Test Mode:** Normal operation  
**Remark:**

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1580	9.65	35.45	45.10	65.56	-20.46	QP	
2	0.1580	9.65	14.49	24.14	55.56	-31.42	AVG	
3	0.1900	9.63	35.89	45.52	64.03	-18.51	QP	
4	0.1900	9.63	21.24	30.87	54.03	-23.16	AVG	
5	0.5100	9.63	27.40	37.03	56.00	-18.97	QP	
6	0.5100	9.63	19.52	29.15	46.00	-16.85	AVG	
7	3.9260	9.66	19.72	29.38	56.00	-26.62	QP	
8	3.9260	9.66	14.25	23.91	46.00	-22.09	AVG	
9	11.4420	9.78	19.81	29.59	60.00	-30.41	QP	
10	11.4420	9.78	13.97	23.75	50.00	-26.25	AVG	
11	22.2740	9.90	22.32	32.22	60.00	-27.78	QP	
12	22.2740	9.90	13.85	23.75	50.00	-26.25	AVG	



**Service No.:** 114043497  
**Test Standard:** FCC Class B Conduction(QP) **Probe:** N  
**Test item:** Conduction Emission **Test Time:** 2015/11/27 15:51:53  
**Applicant:** REYAX **Test Rating:** DC 5V  
**Product:** 2.4GHz Bluetooth Low Energy Module with Integrated Antenna **Temp.(°C)/Hum.(%):** 20.9(°C)/49%  
**Model No.:** RYB070I **Test Engineer:** George Yang  
**Test Mode:** Normal operation  
**Remark:**

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Remark
1	0.1620	9.66	34.45	44.11	65.36	-21.25	QP	
2	0.1620	9.66	21.94	31.60	55.36	-23.76	AVG	
3	0.1780	9.65	33.34	42.99	64.57	-21.58	QP	
4	0.1780	9.65	18.86	28.51	54.57	-26.06	AVG	
5	0.5740	9.64	25.02	34.66	56.00	-21.34	QP	
6	0.5740	9.64	19.11	28.75	46.00	-17.25	AVG	
7	3.6340	9.69	16.02	25.71	56.00	-30.29	QP	
8	3.6340	9.69	10.36	20.05	46.00	-25.95	AVG	
9	12.0499	9.82	19.42	29.24	60.00	-30.76	QP	
10	12.0499	9.82	13.46	23.28	50.00	-26.72	AVG	
11	22.6220	10.00	19.94	29.94	60.00	-30.06	QP	
12	22.6220	10.00	11.01	21.01	50.00	-28.99	AVG	