

Test Report No.10052970 10052971 001

Appendix D: Radiated Spurious Emission Data

(File: 10052970 10052971AppendixD)

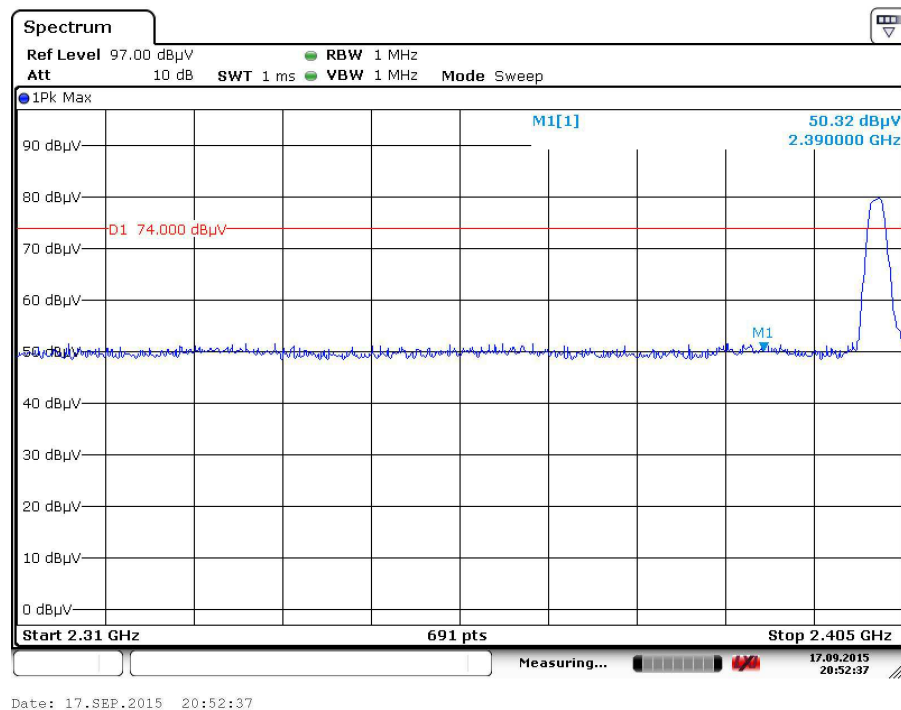
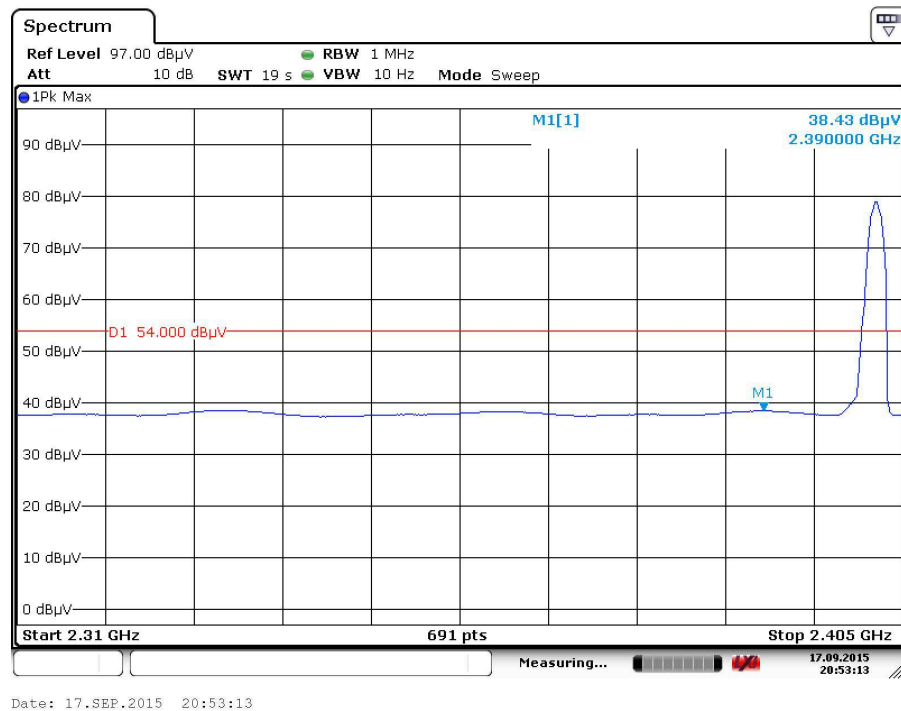
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Spurious Emissions, Band Edges, 2.35-2.5G

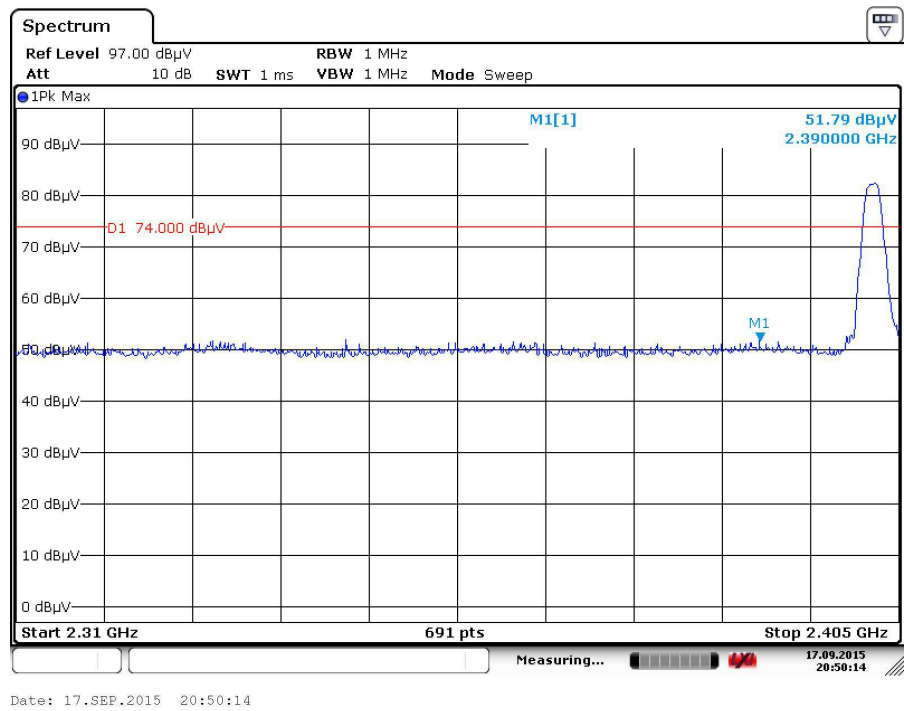
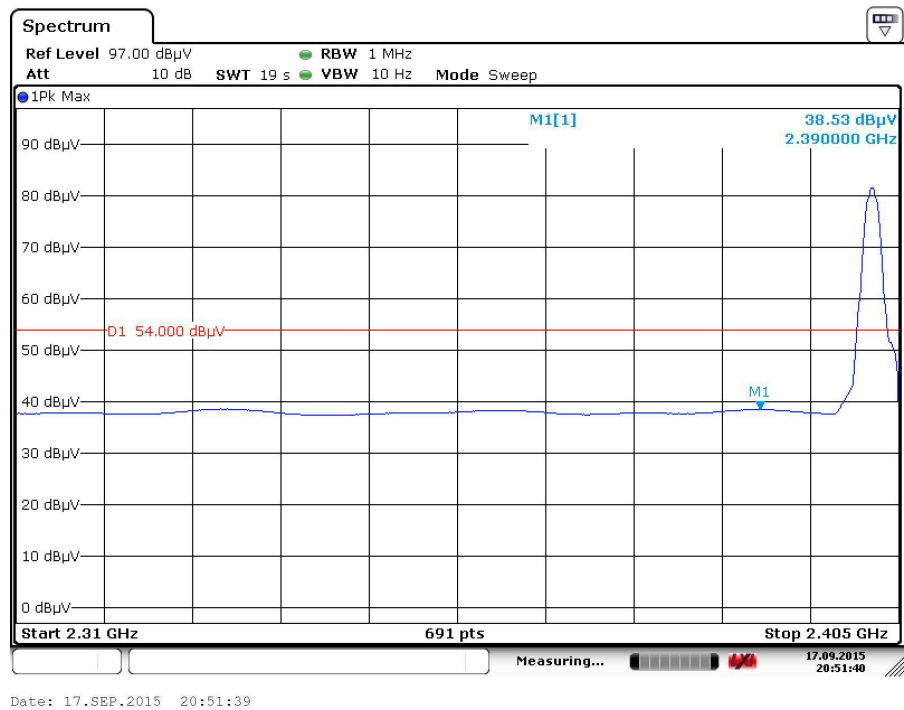
Radiated Bandedge (GFSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

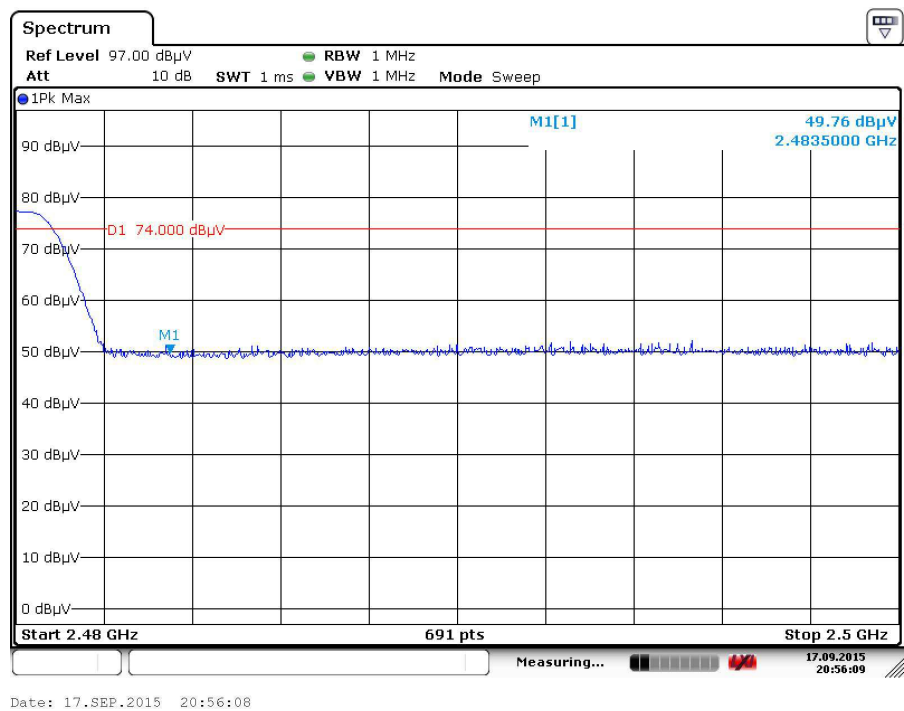
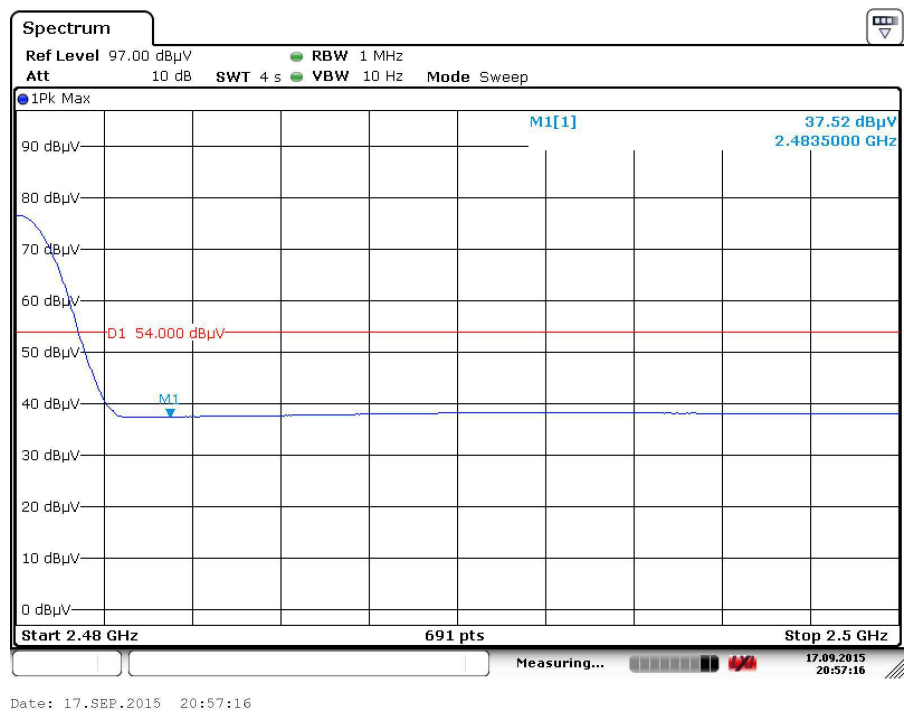
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

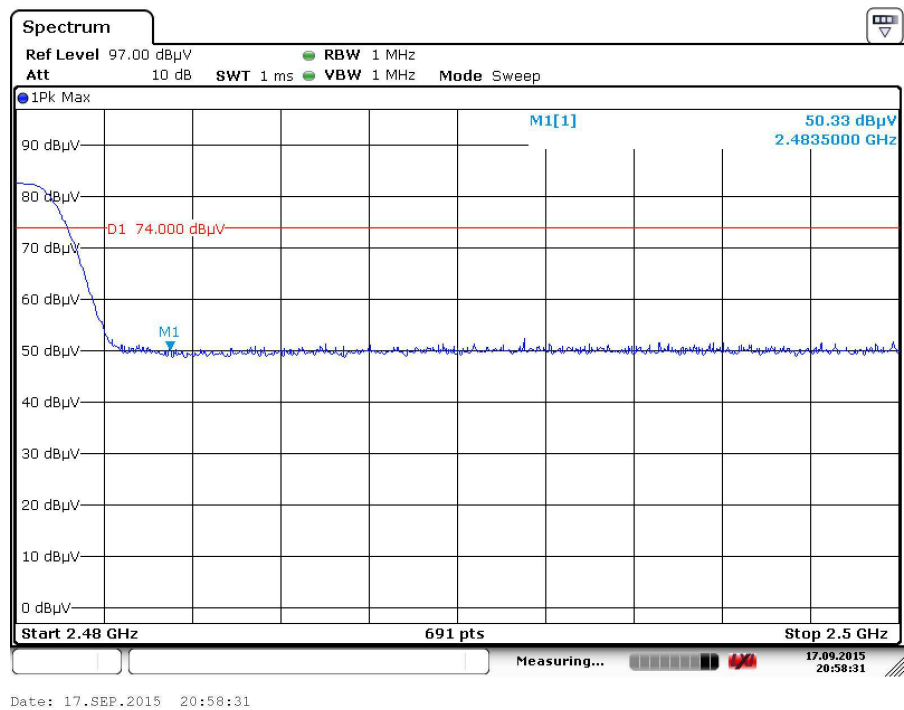
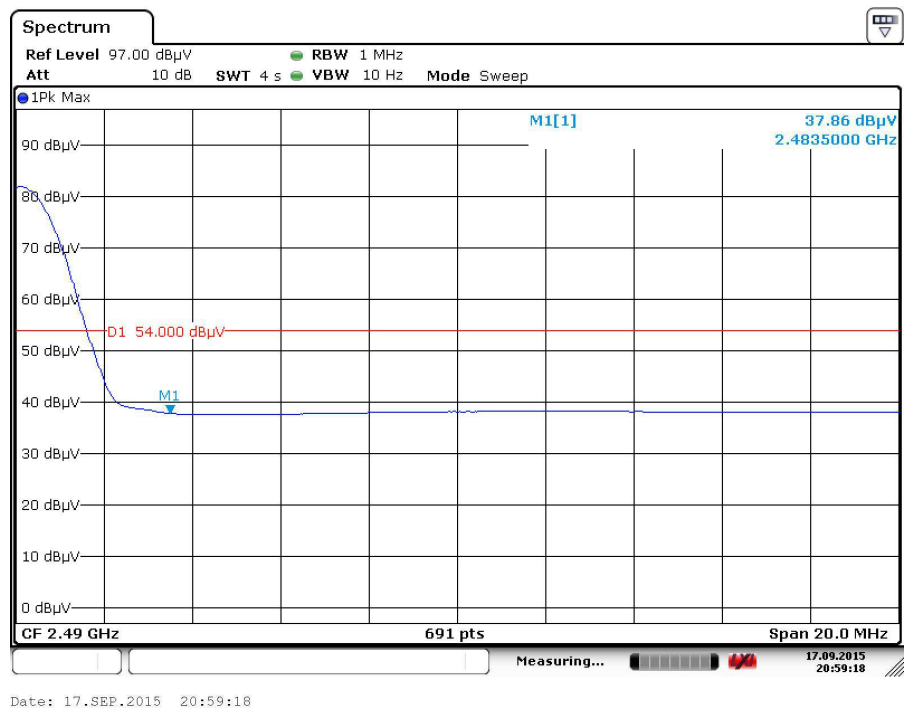
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

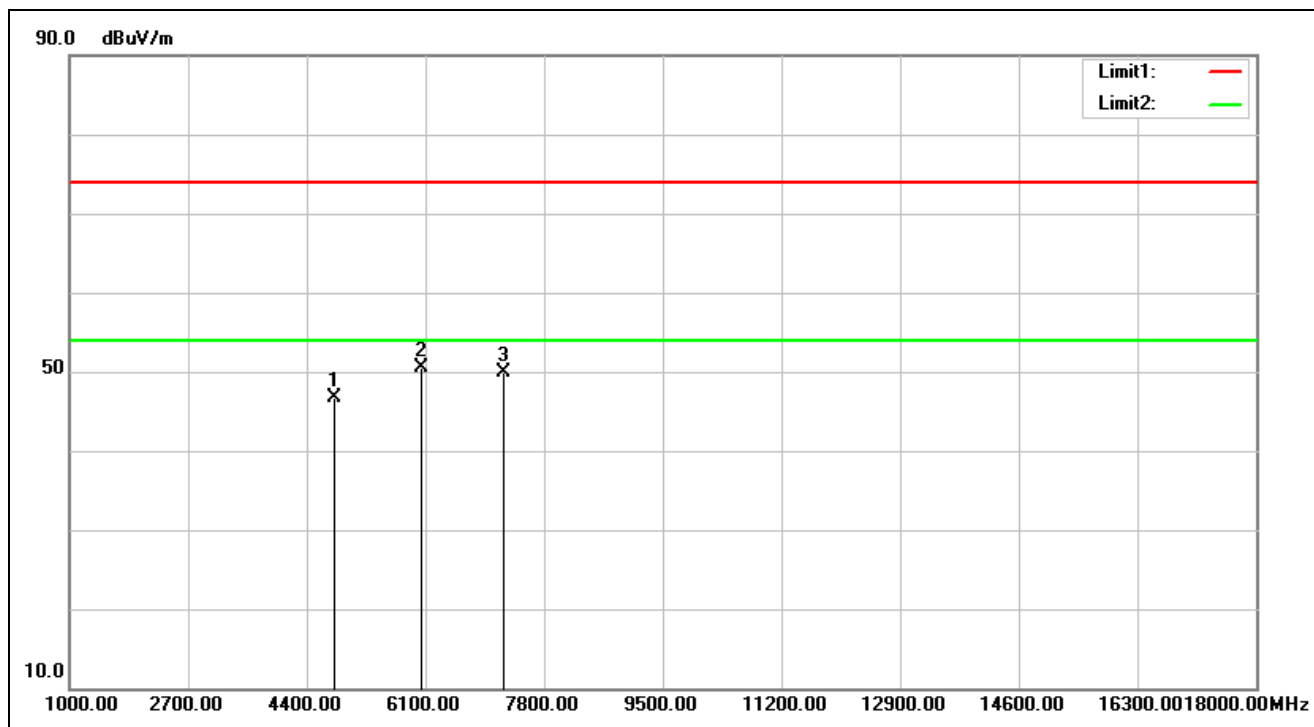
Spurious Emissions, TX Mode, 1-18G



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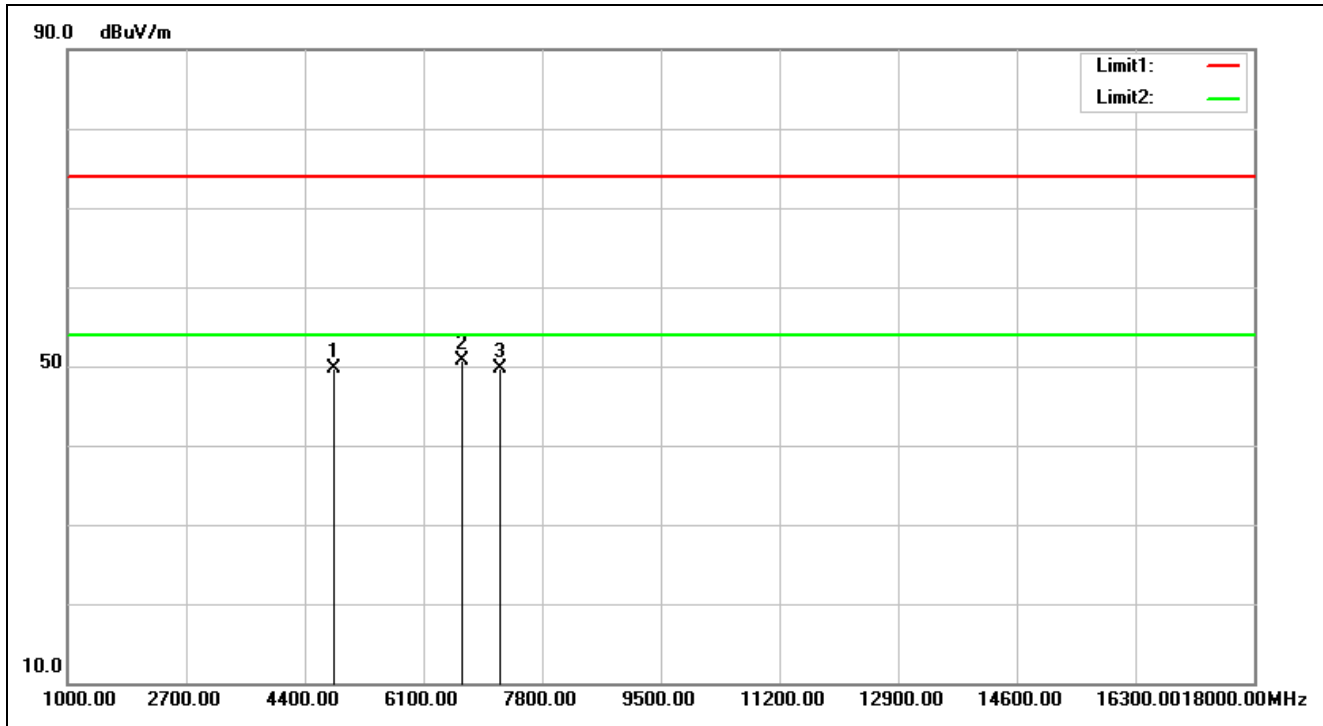
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



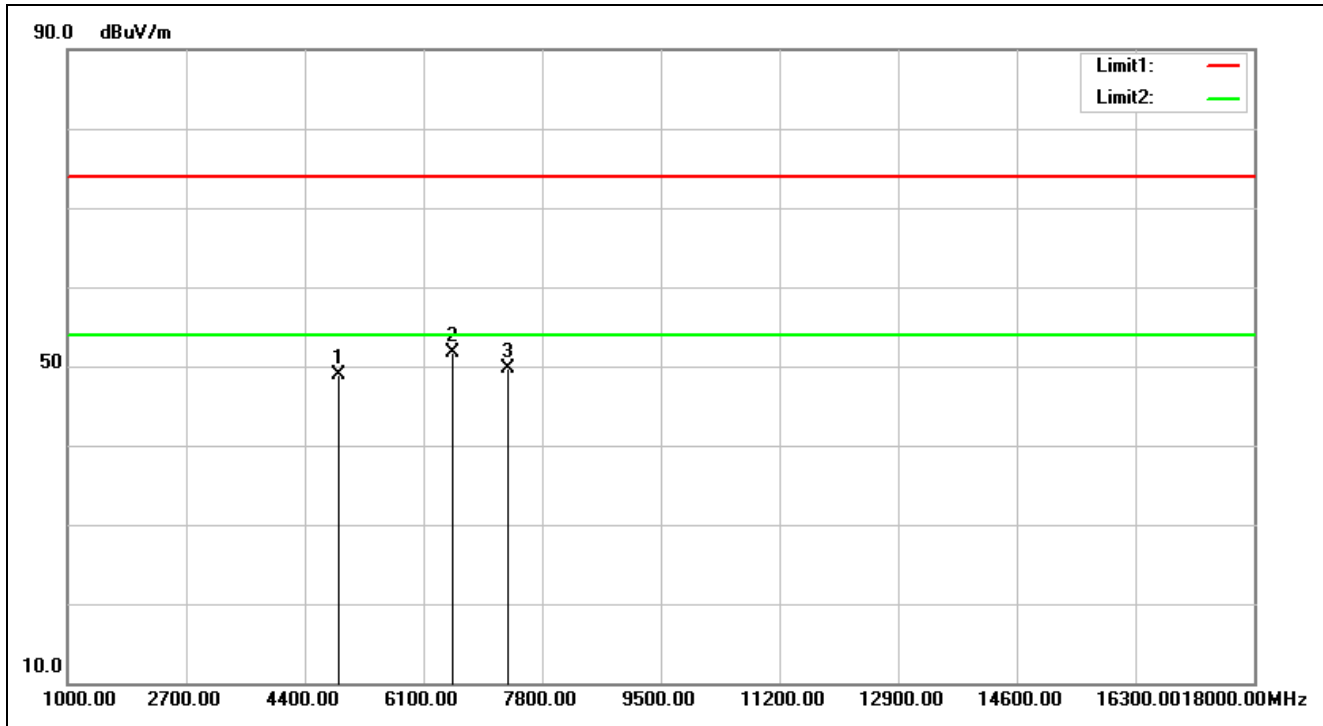
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/14 13:15:28
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	-2.35	49.06	46.71	74.00	-27.29	peak		0	
2	6032.000	4.21	46.27	50.48	74.00	-23.52	peak	100	316	
3	7206.000	5.78	44.03	49.81	74.00	-24.19	peak		0	



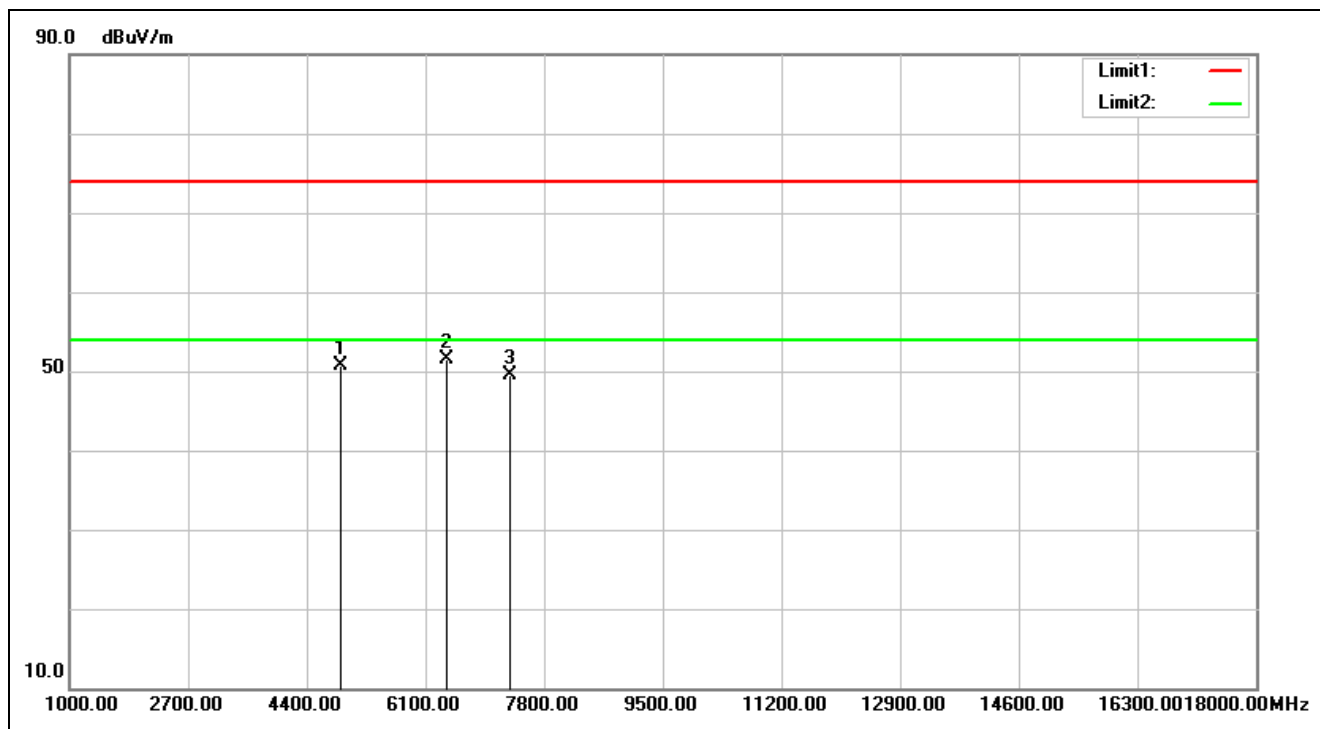
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Test item:	Radiation Emission	Test Time:	2015/9/14 13:16:31
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	52.03	49.68	74.00	-24.32	peak	100	138	
2	6644.000	5.79	44.97	50.76	74.00	-23.24	peak	100	237	
3	7206.000	5.78	43.90	49.68	74.00	-24.32	peak			



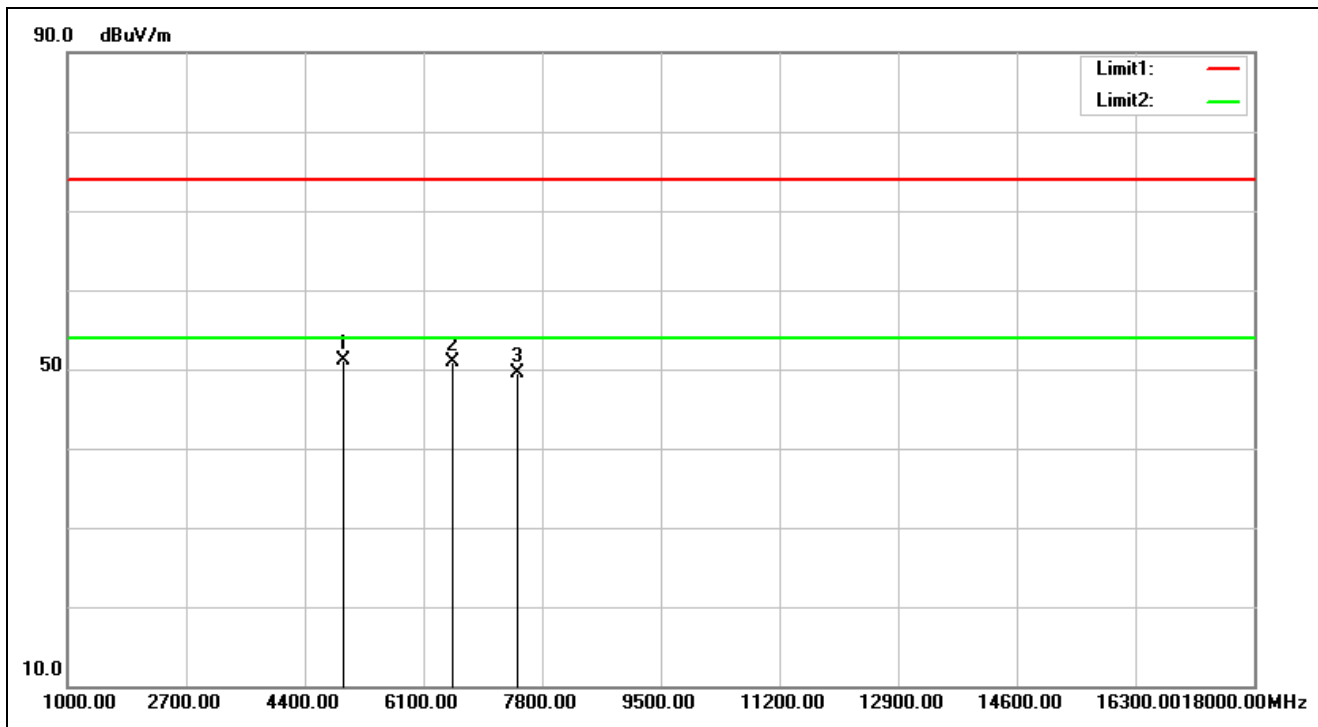
Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/14 13:25:06
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
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	4880.000	-2.16	51.05	48.89	74.00	-25.11	peak	100	37	
2	6525.000	6.00	45.68	51.68	74.00	-22.32	peak	100	211	
3	7320.000	6.12	43.54	49.66	74.00	-24.34	peak			



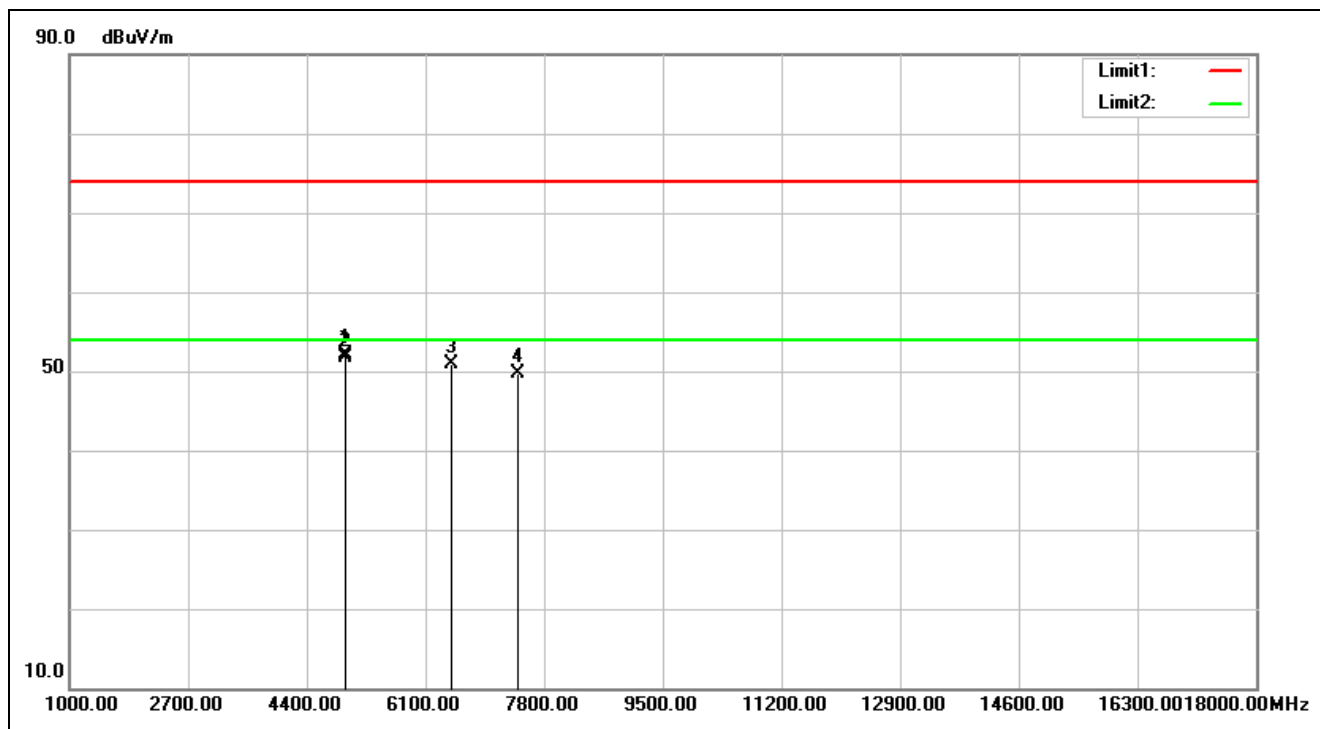
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/14 13:26:09
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George 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	4880.000	-2.16	52.79	50.63	74.00	-23.37	peak	100	136	
2	6406.000	5.67	45.90	51.57	74.00	-22.43	peak	100	52	
3	7320.000	6.12	43.41	49.53	74.00	-24.47	peak			



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/14 13:30:21
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	-1.97	52.98	51.01	74.00	-22.99	peak	100	217	
2	6525.000	6.00	44.97	50.97	74.00	-23.03	peak	100	302	
3	7440.000	6.47	43.07	49.54	74.00	-24.46	peak			



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/14 13:31:23
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%)	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	-1.97	54.00	52.03	74.00	-21.97	peak	100	88	
2	4960.000	-1.97	53.68	51.71	54.00	-2.29	AVG	100	88	
3	6474.000	5.93	44.94	50.87	74.00	-23.13	peak	100	188	
4	7440.000	6.47	43.15	49.62	74.00	-24.38	peak		0	

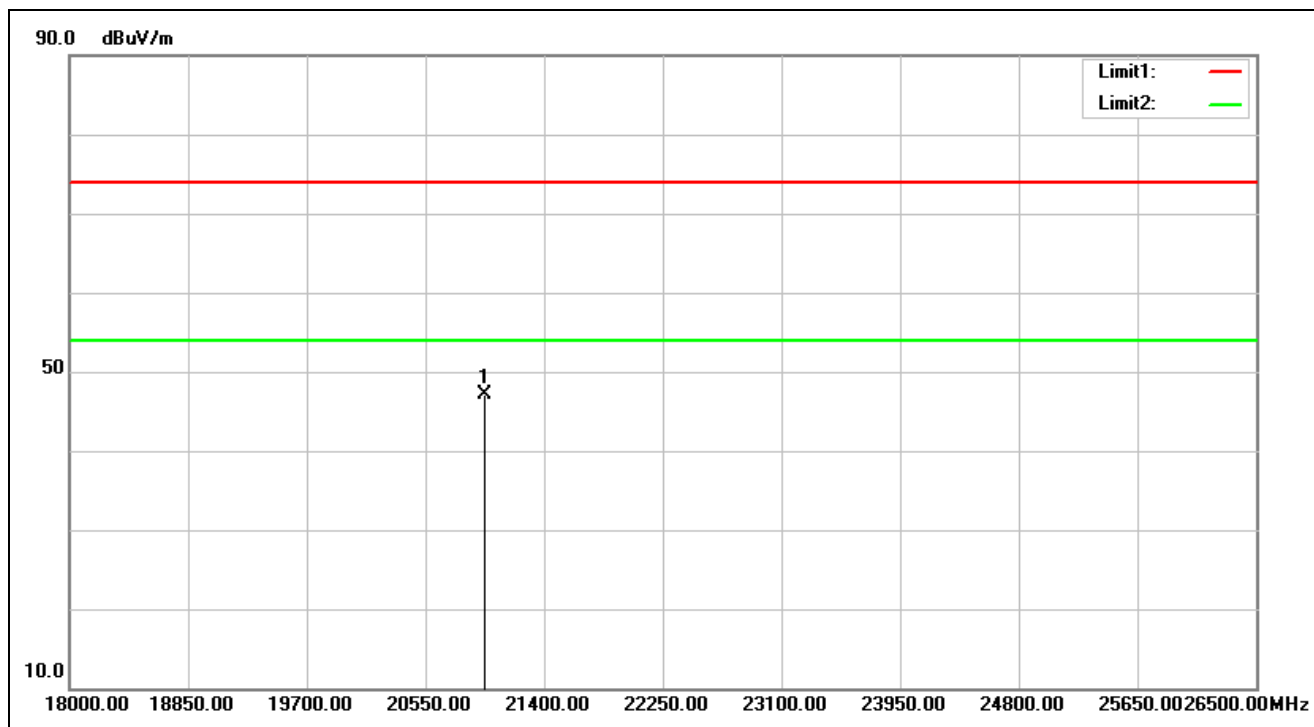
Spurious Emissions, TX Mode, 18-26G



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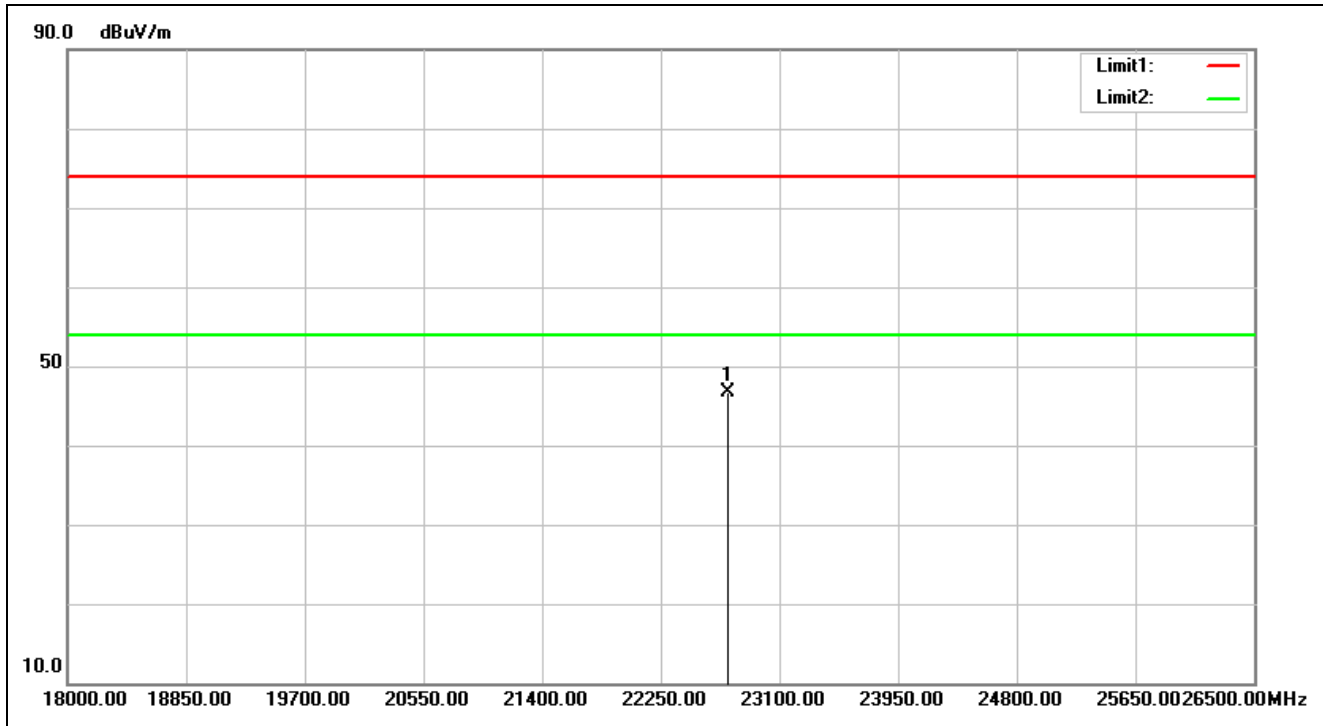
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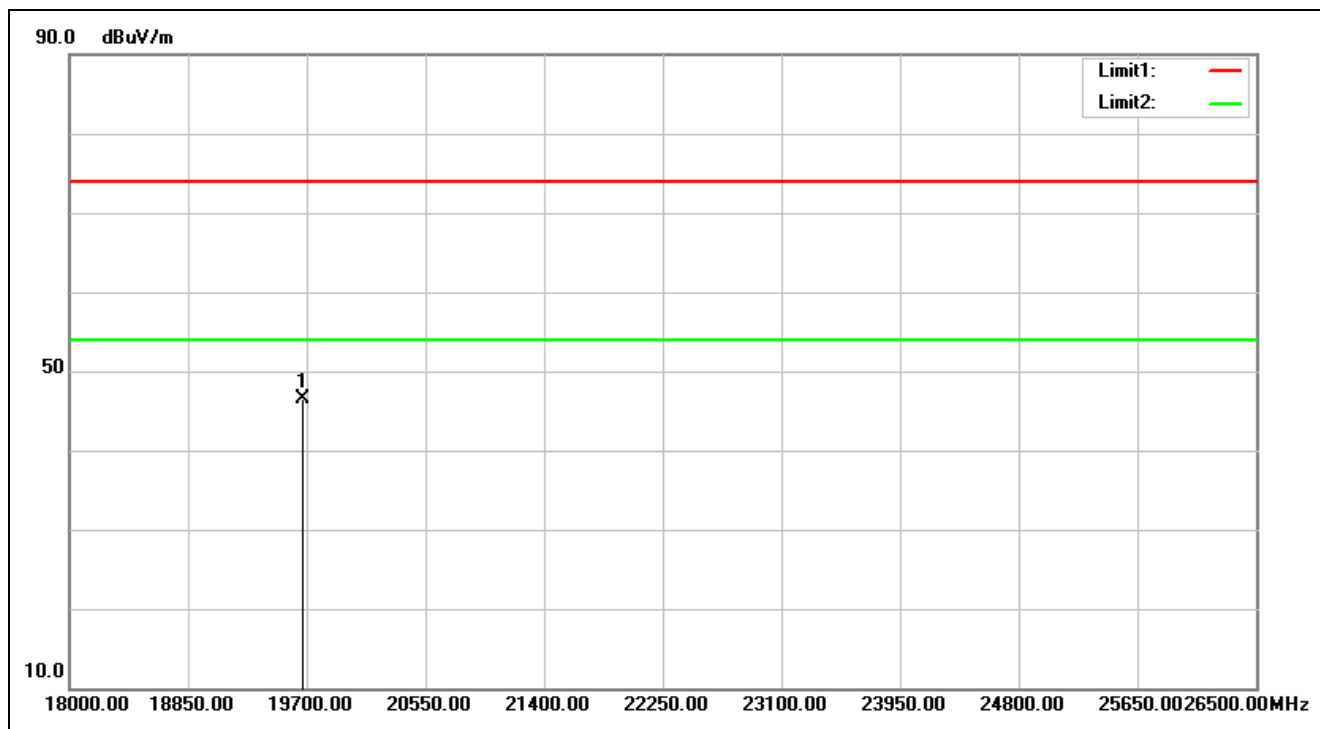
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/17 20:13:11
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%)	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	20975.000	29.36	17.74	47.10	74.00	-26.90	peak		0	



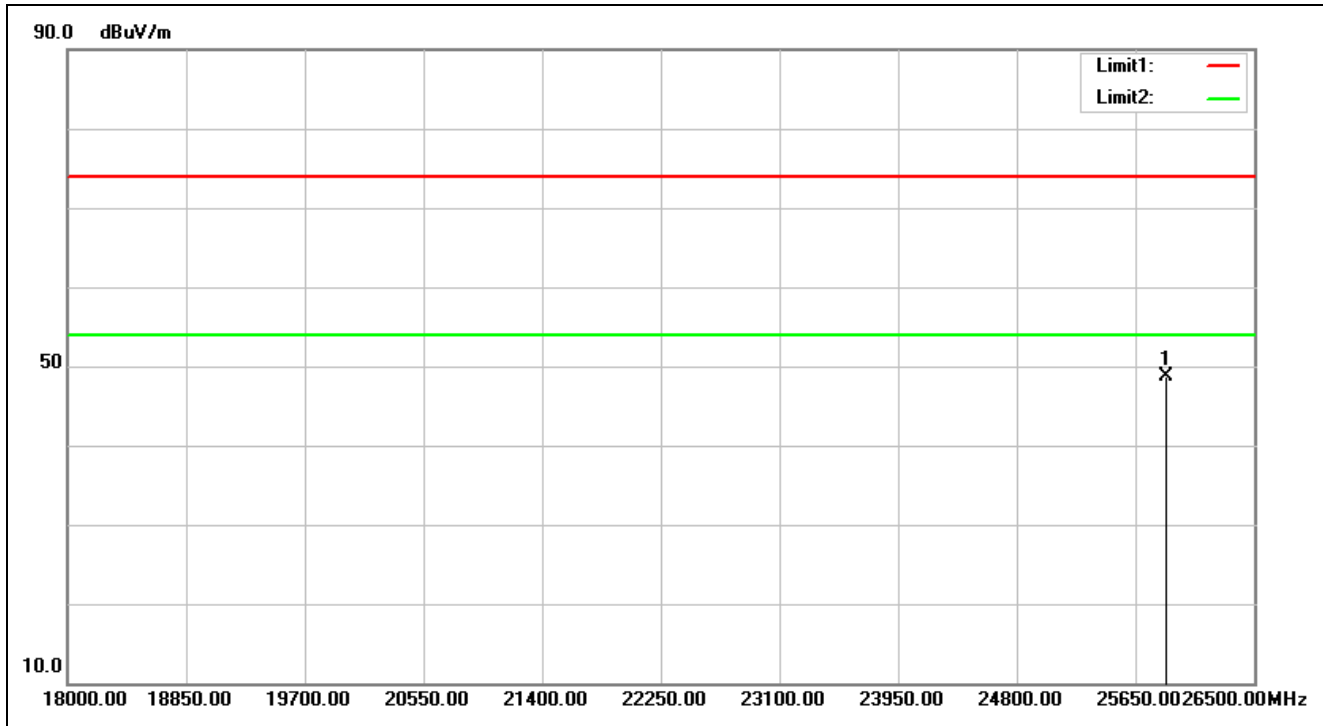
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/17 20:13:22
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	22726.000	29.55	17.14	46.69	74.00	-27.31	peak			



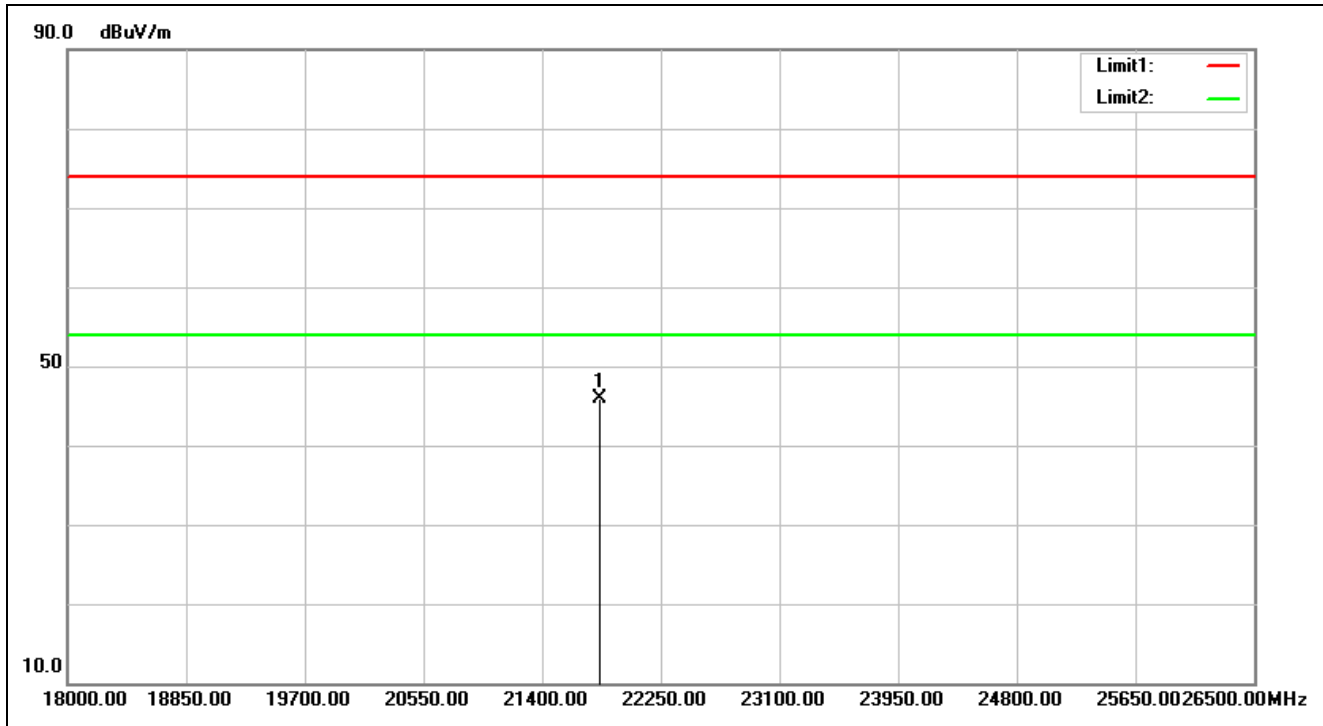
Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/17 20:13:37
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
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	19666.000	28.94	17.56	46.50	74.00	-27.50	peak			



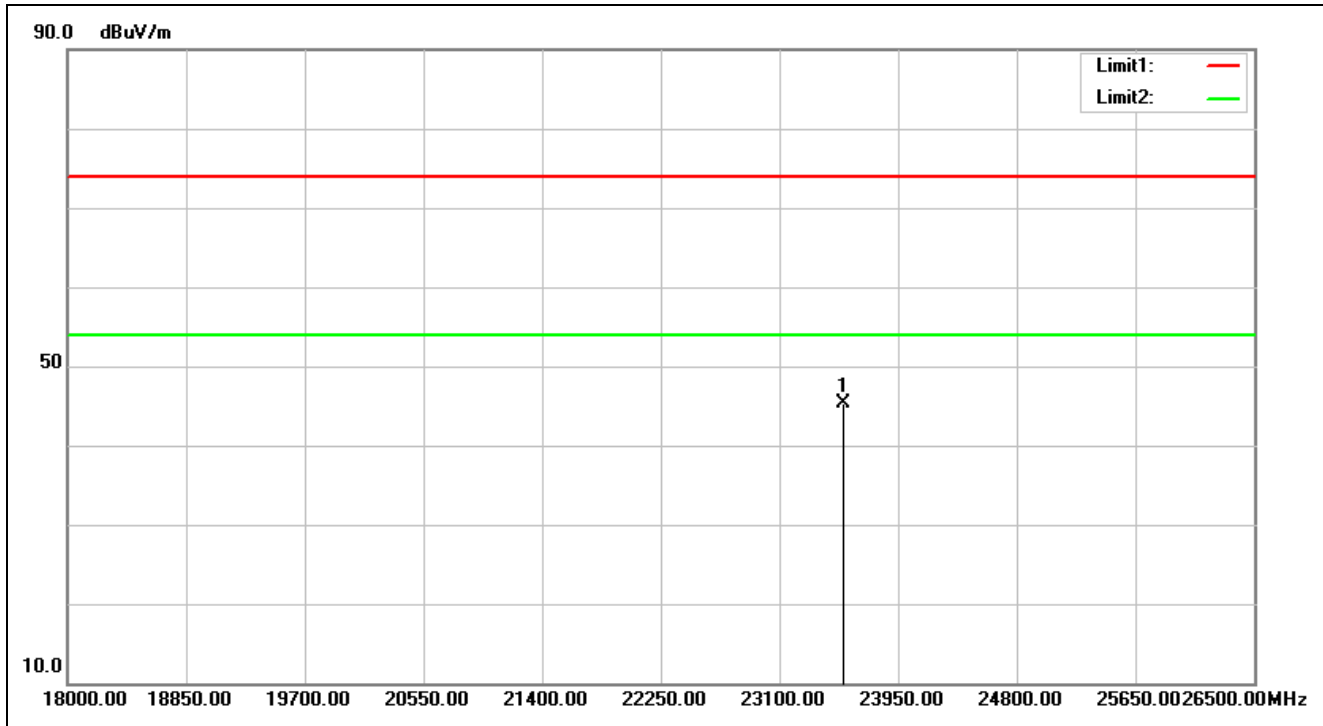
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/17 20:13:48
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George 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	25871.000	31.76	17.04	48.80	74.00	-25.20	peak			



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/17 20:14:03
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	21808.000	28.61	17.33	45.94	74.00	-28.06	peak			



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/17 20:14:13
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	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	23559.000	29.38	15.94	45.32	74.00	-28.68	peak			

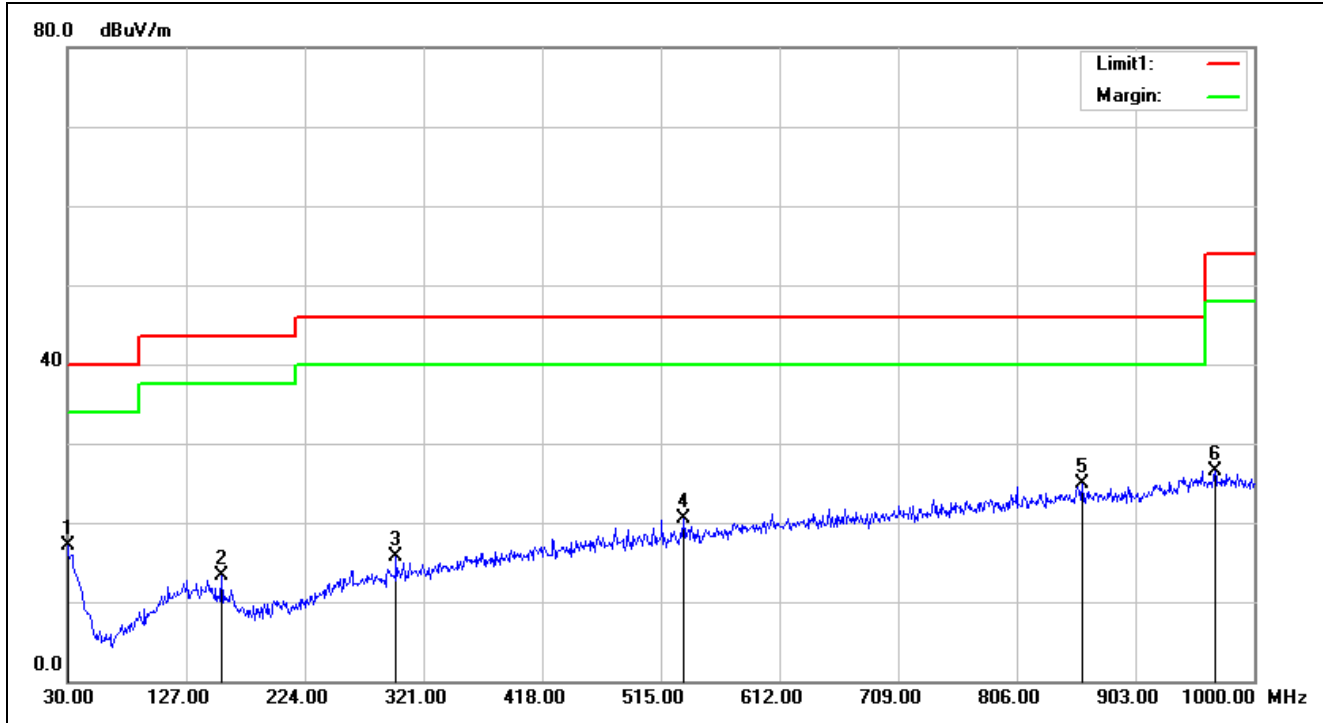
Spurious Emissions, TX Mode, 30M-1G



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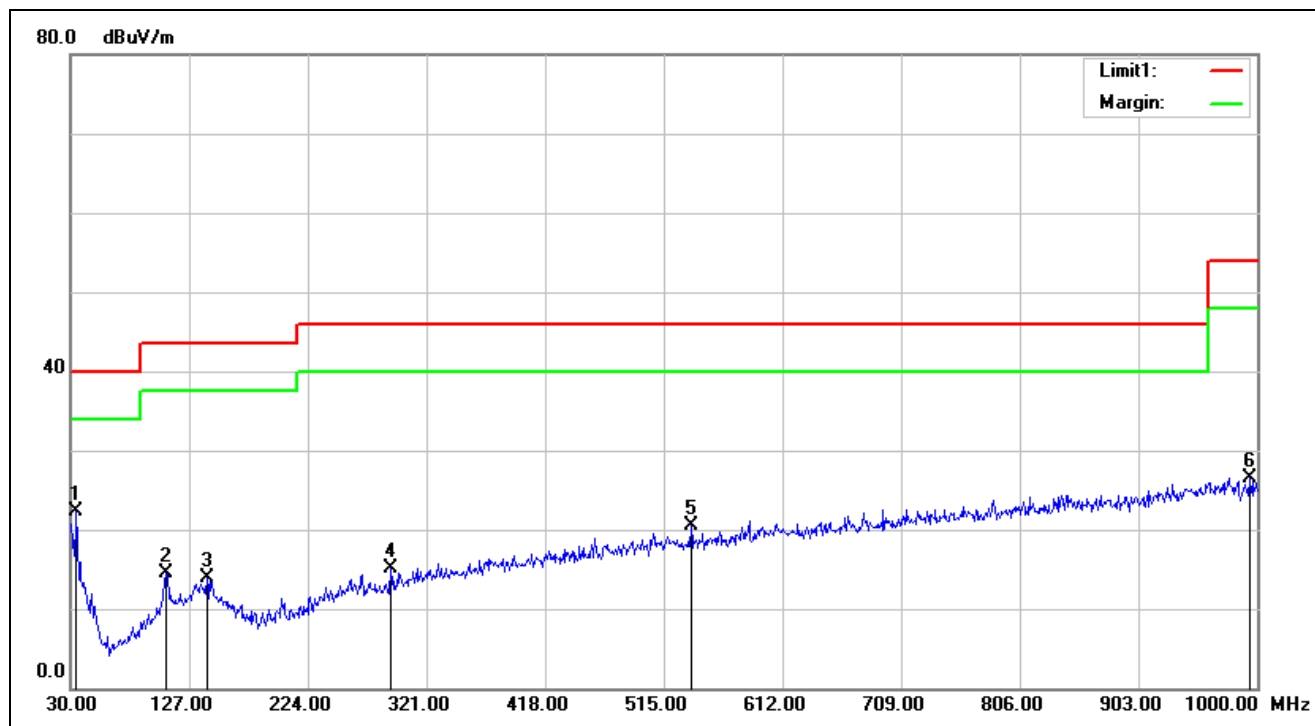
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/17 20:25:13
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	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	-7.63	24.81	17.18	40.00	-22.82	QP	100	336	
2	156.1000	-15.09	28.49	13.40	43.50	-30.10	QP	100	291	
3	298.6900	-12.06	27.79	15.73	46.00	-30.27	QP	100	355	
4	533.4299	-8.26	28.86	20.60	46.00	-25.40	QP	100	122	
5	859.3500	-3.16	28.00	24.84	46.00	-21.16	QP	100	120	
6	967.9900	-1.21	27.66	26.45	54.00	-27.55	QP	100	330	

Spurious Emissions, RX Mode, 1-18G



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/17 20:26:16
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%)	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	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	34.8500	-10.41	32.66	22.25	40.00	-17.75	QP	100	64	
2	108.5700	-15.61	30.21	14.60	43.50	-28.90	QP	100	138	
3	141.5500	-14.47	28.42	13.95	43.50	-29.55	QP	100	334	
4	291.9000	-12.23	27.27	15.04	46.00	-30.96	QP	100	315	
5	537.3100	-8.22	28.81	20.59	46.00	-25.41	QP	100	212	
6	994.1800	-1.24	27.71	26.47	54.00	-27.53	QP	100	257	

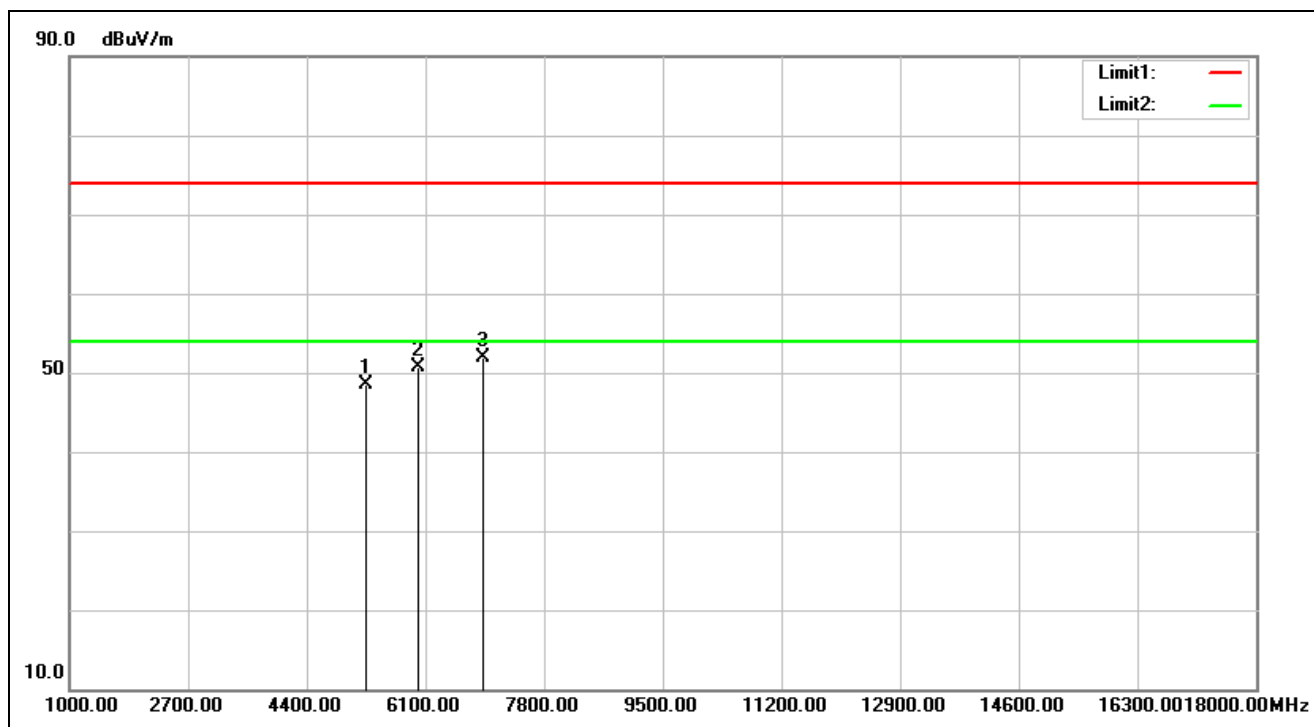
Spurious Emissions, RX Mode, 1-18G



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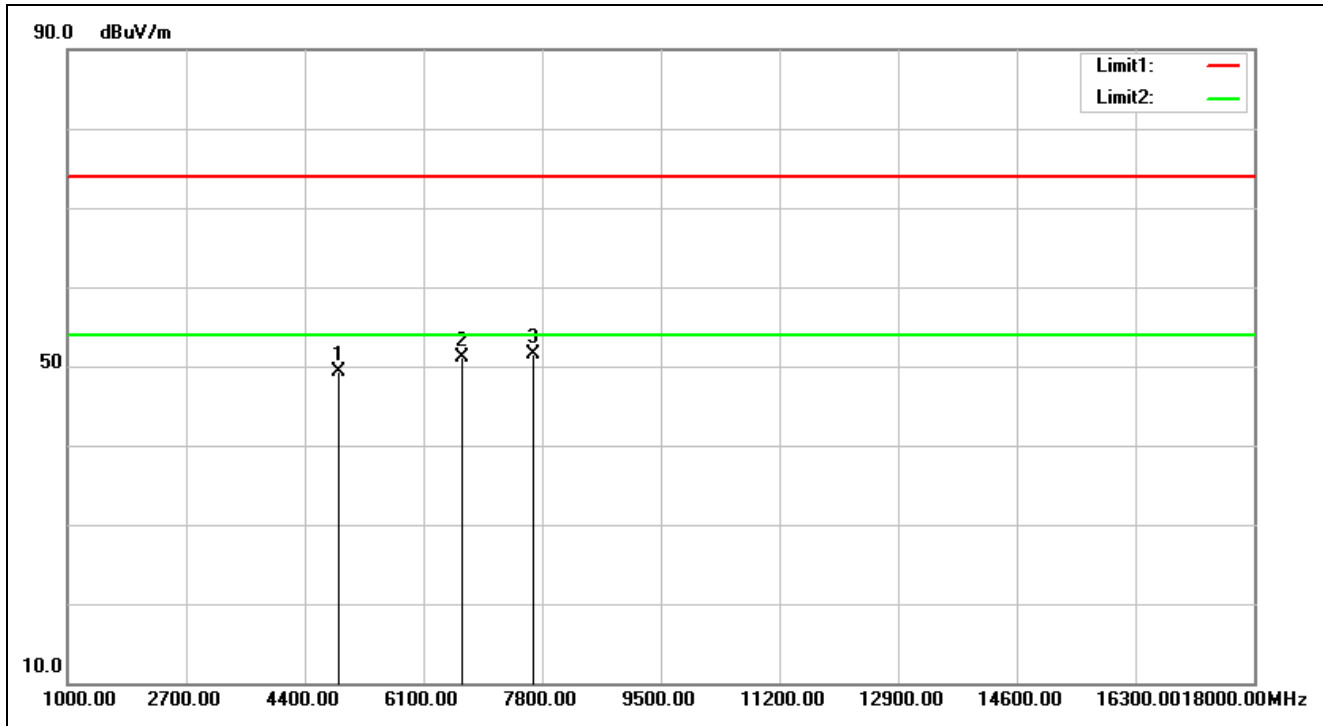
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/14 13:49:37
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	5250.000	-0.52	49.10	48.58	74.00	-25.42	peak	100	318	
2	5998.000	4.07	46.66	50.73	74.00	-23.27	peak	100	103	
3	6933.000	5.28	46.71	51.99	74.00	-22.01	peak	100	91	

Spurious Emissions, RX Mode, 1-18G



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/14 13:50:40
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	26.1(°C)/55%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4876.000	-2.16	51.51	49.35	74.00	-24.65	peak	100	124	
2	6644.000	5.79	45.29	51.08	74.00	-22.92	peak	100	27	
3	7681.000	6.63	44.90	51.53	74.00	-22.47	peak	100	277	

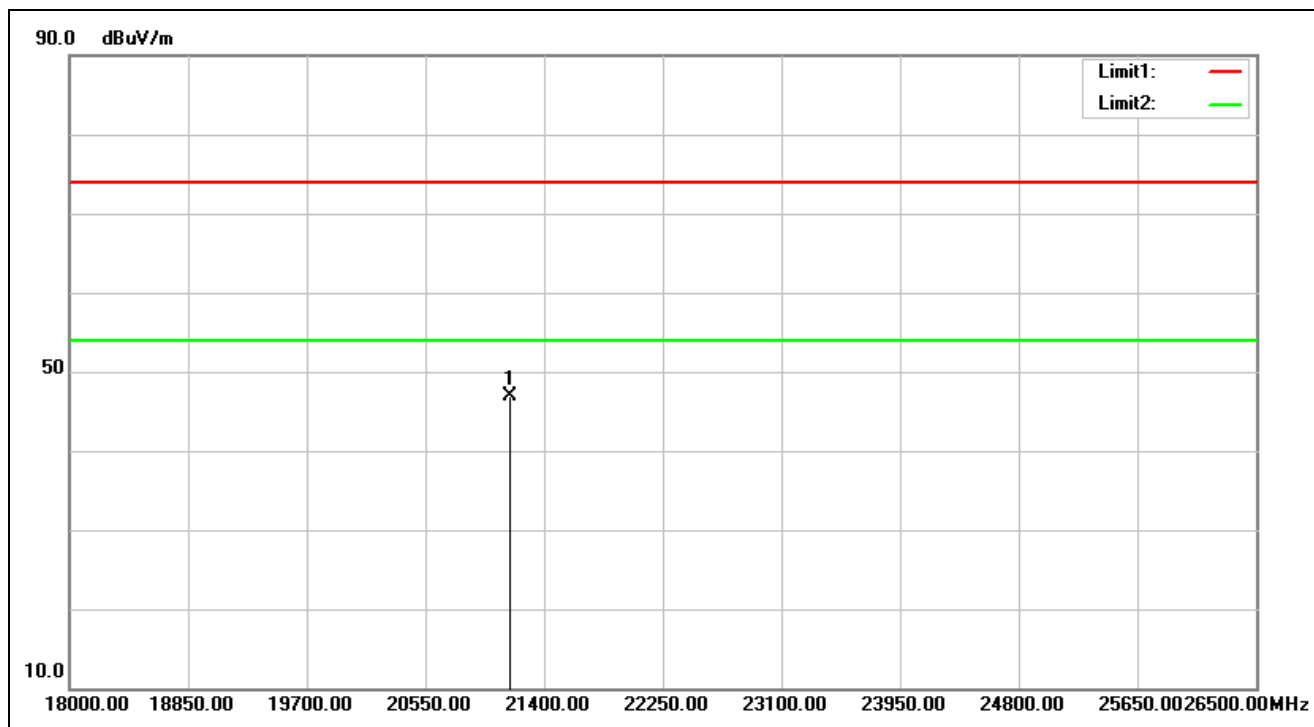
Spurious Emissions, RX Mode, 18-26G



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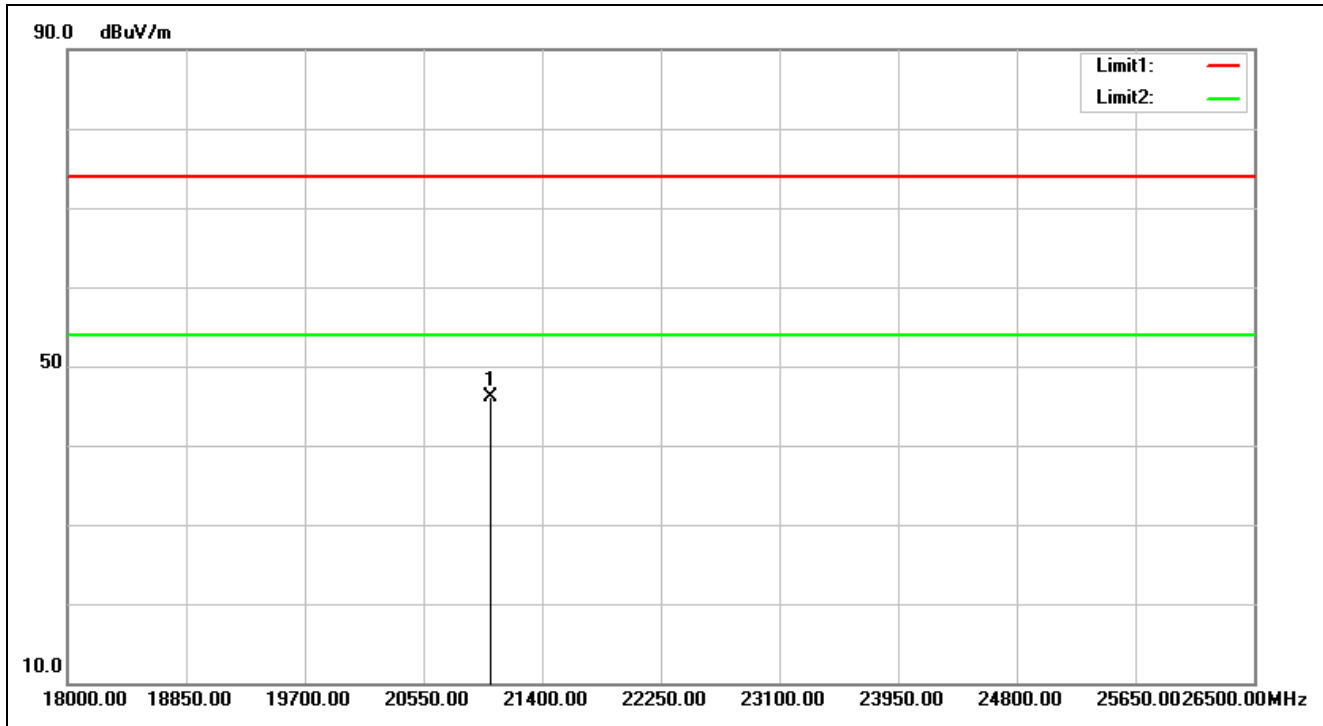
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/17 20:15:05
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%)	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21153.500	29.22	17.67	46.89	74.00	-27.11	peak			



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/17 20:15:15
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21034.500	29.33	16.68	46.01	74.00	-27.99	peak			

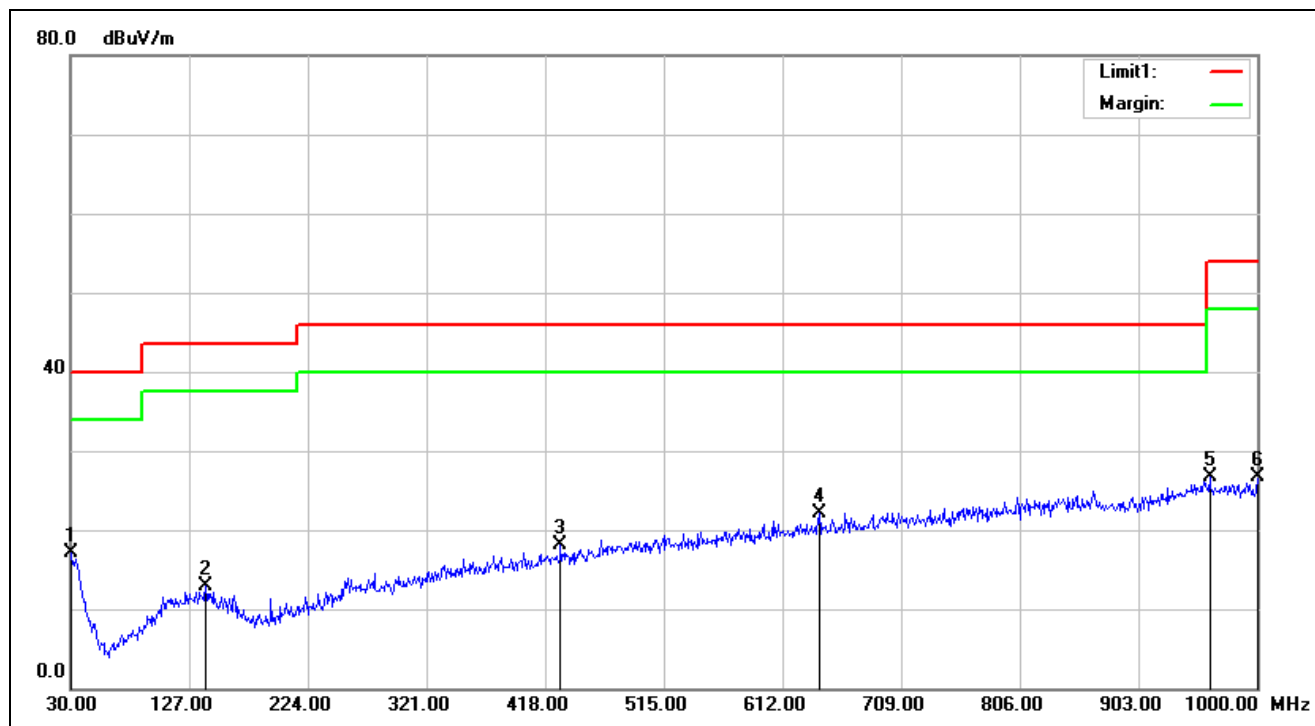
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

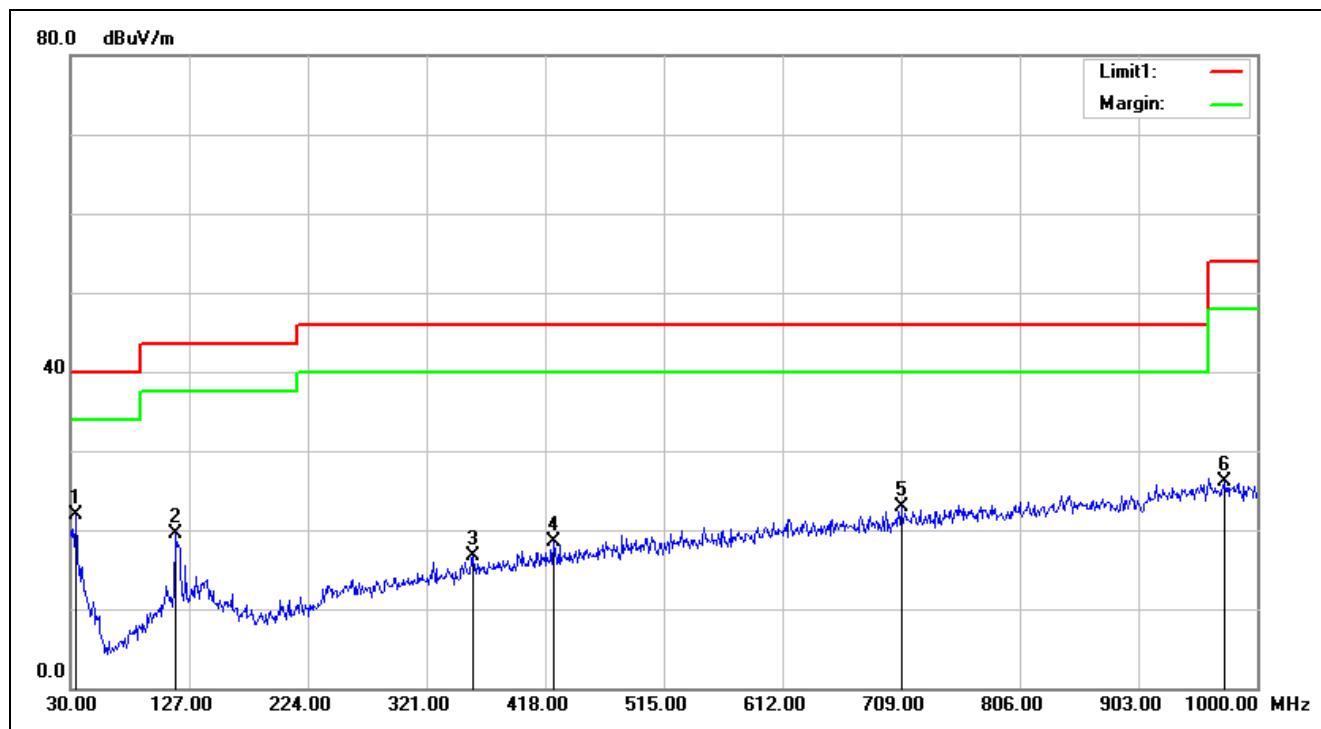
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2015/9/17 20:29:31
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%)	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2440-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	-7.63	24.79	17.16	40.00	-22.84	QP	100	16	
2	140.5800	-14.44	27.26	12.82	43.50	-30.68	QP	100	269	
3	430.6100	-9.62	27.78	18.16	46.00	-27.84	QP	100	171	
4	642.0700	-6.64	28.84	22.20	46.00	-23.80	QP	100	320	
5	961.2000	-1.20	27.82	26.62	54.00	-27.38	QP	100	37	
6	1000.0000	-1.24	27.90	26.66	54.00	-27.34	QP	100	1	

Spurious Emissions, Mains, 150kHz - 30MHz



Service No.:	114036781-NCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2015/9/17 20:30:34
Applicant:	Qblinks	Test Rating:	DC 3V
Product:	Qmote	Temp.(°C)/Hum.(%):	22.1(°C)/53%
Model No.:	RC-QMOTE-01A	Test Engineer:	George Yang
Test Mode:	2440-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	34.8500	-10.41	32.39	21.98	40.00	-18.02	QP	100	48	
2	116.3300	-14.93	34.41	19.48	43.50	-24.02	QP	100	256	
3	358.8300	-10.71	27.42	16.71	46.00	-29.29	QP	100	341	
4	424.7900	-9.70	28.29	18.59	46.00	-27.41	QP	100	203	
5	709.0000	-5.74	28.56	22.82	46.00	-23.18	QP	100	120	
6	973.8100	-1.21	27.38	26.17	54.00	-27.83	QP	100	331	