

Test Report No.50041195 50041197 001

Appendix D: Radiated and Mains Spurious Emission Data

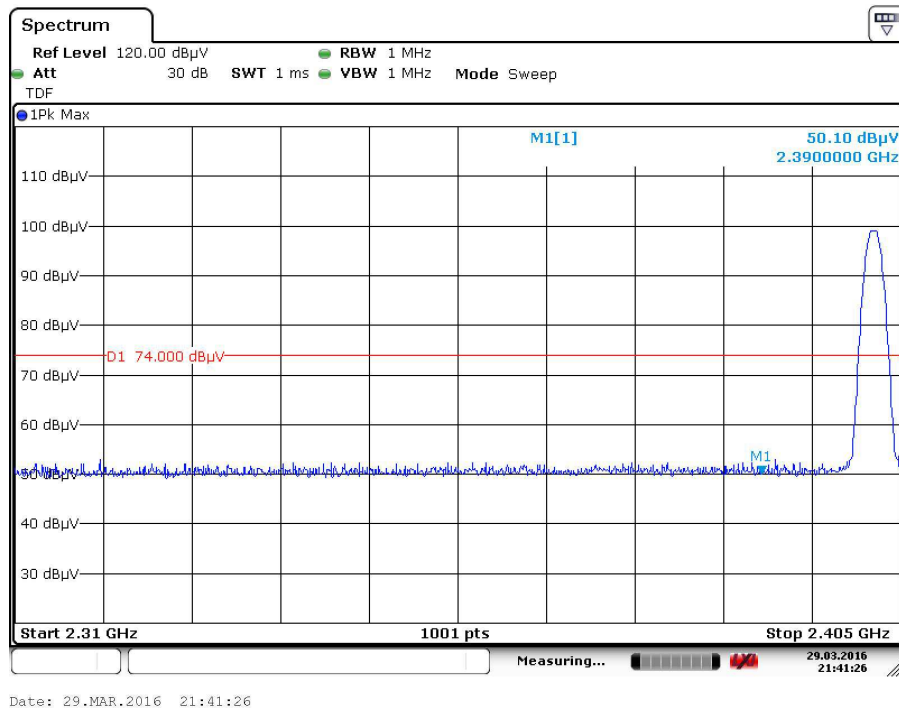
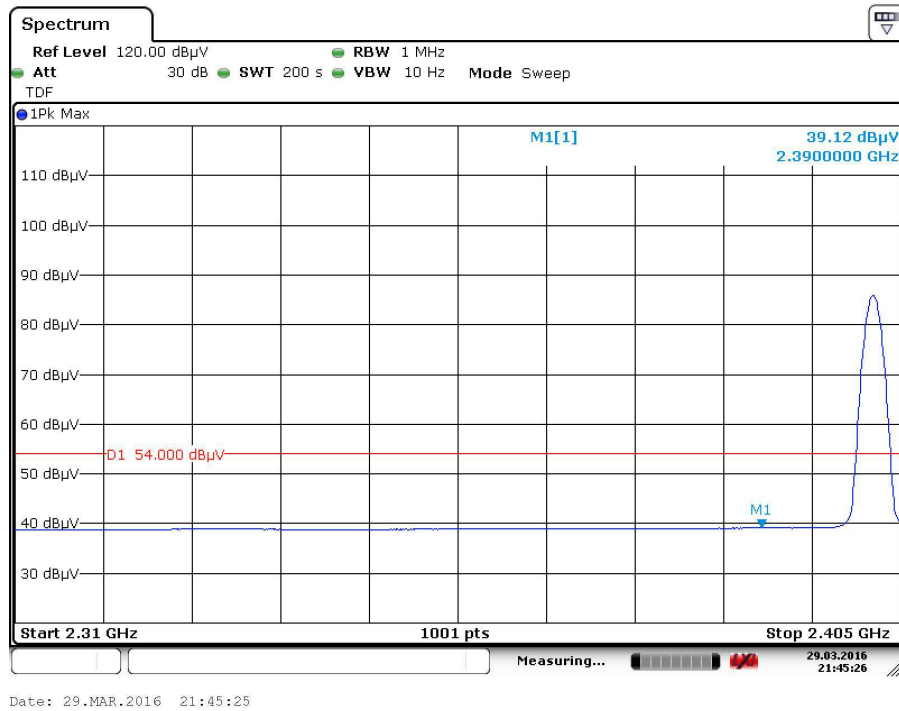
(File: 50041195 50041197AppendixD)

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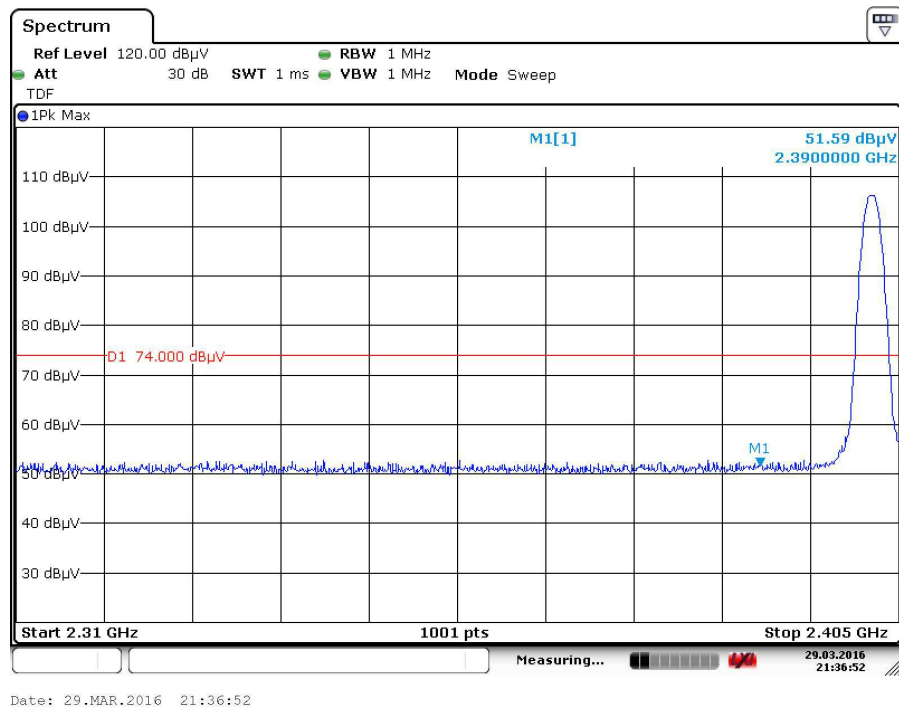
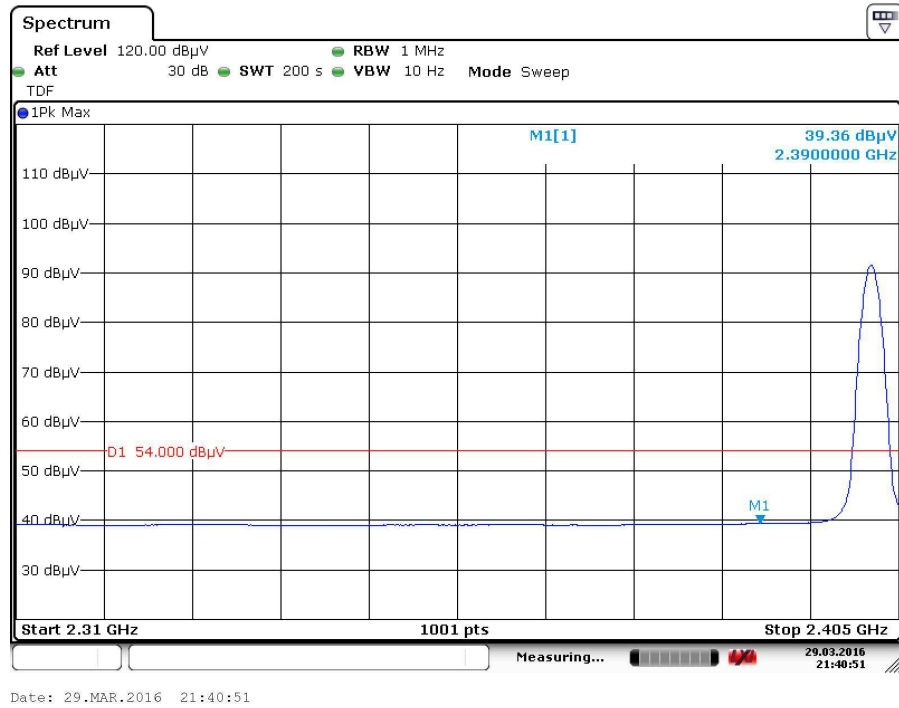
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Radiated Bandedge (GFSK)

Low Channel (Hor)



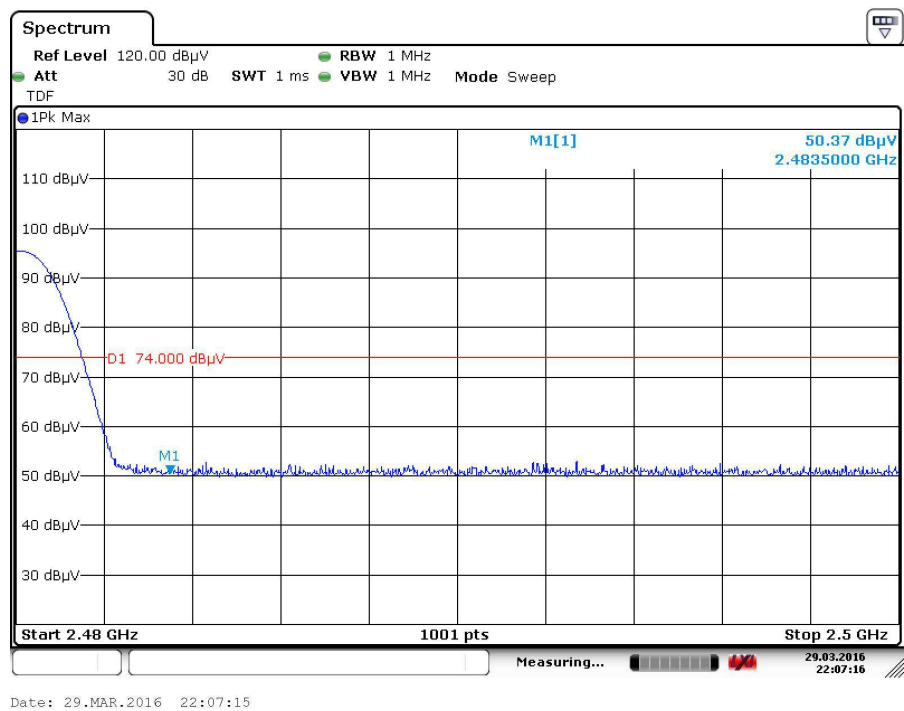
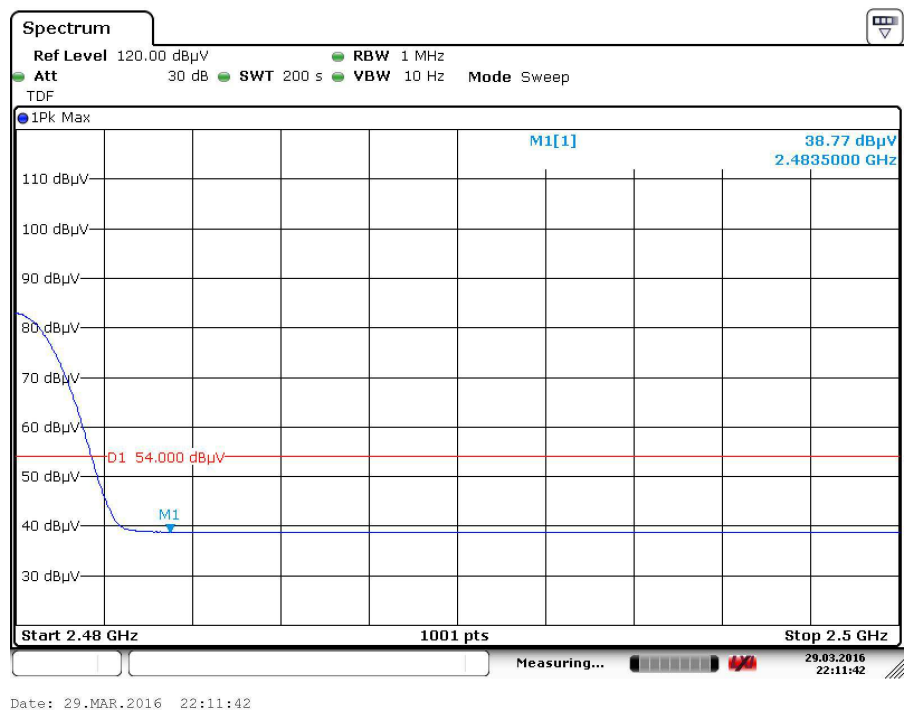
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

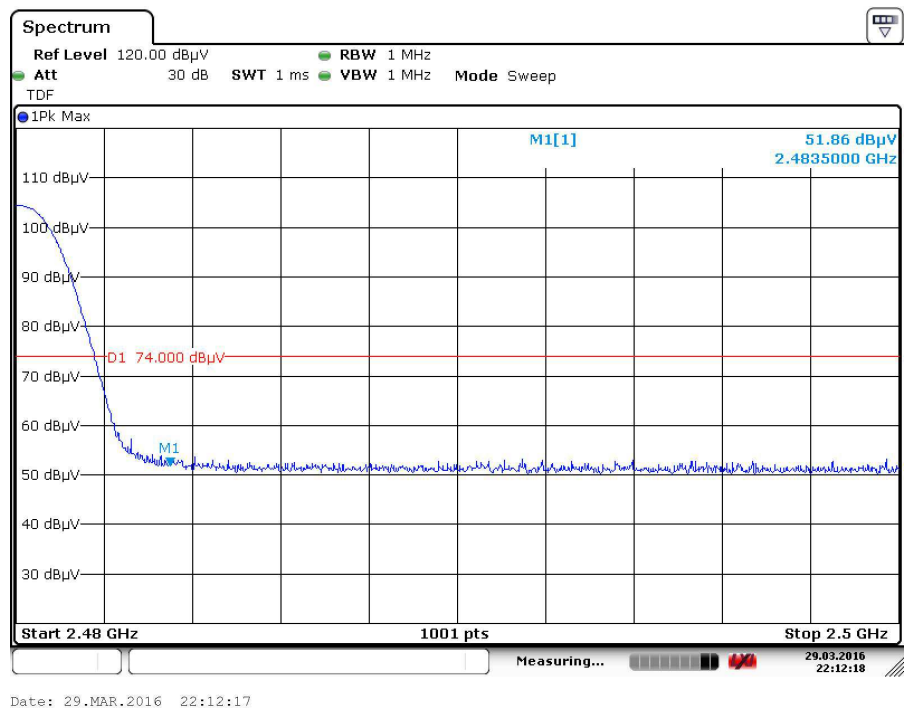
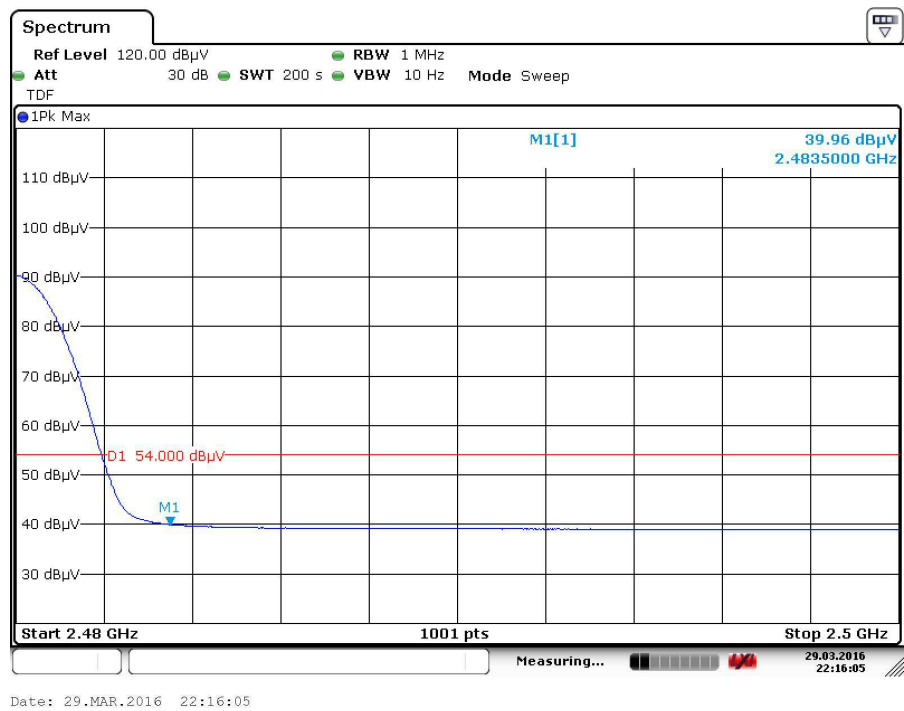
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

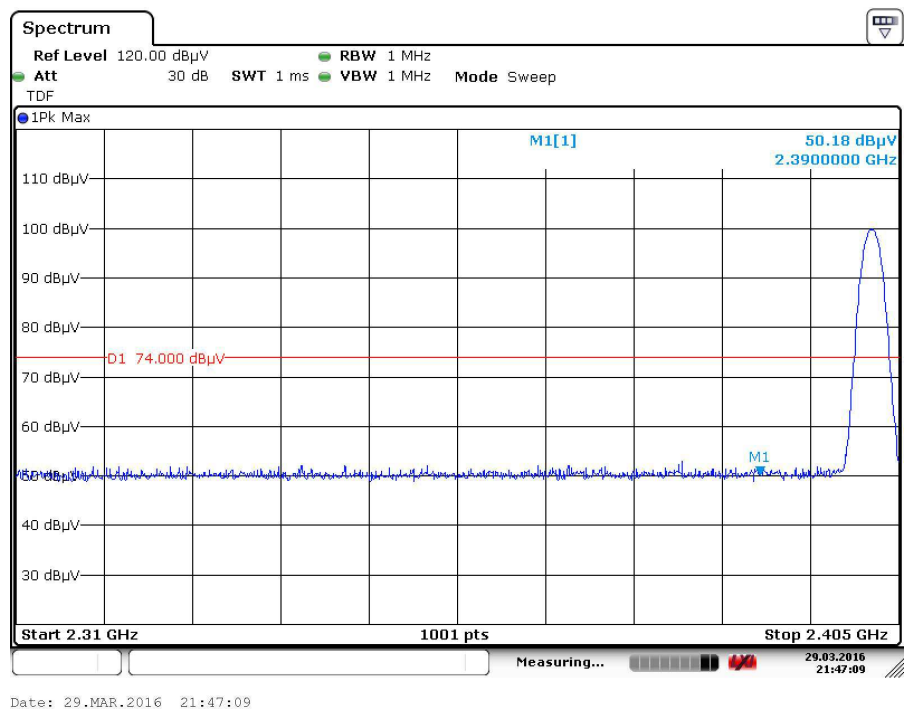
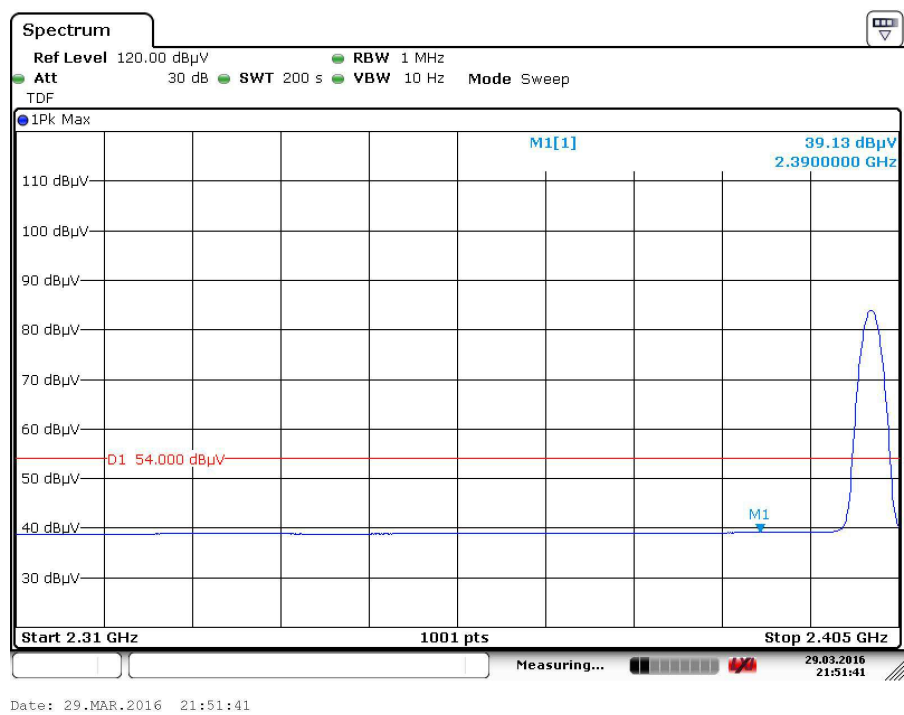
High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

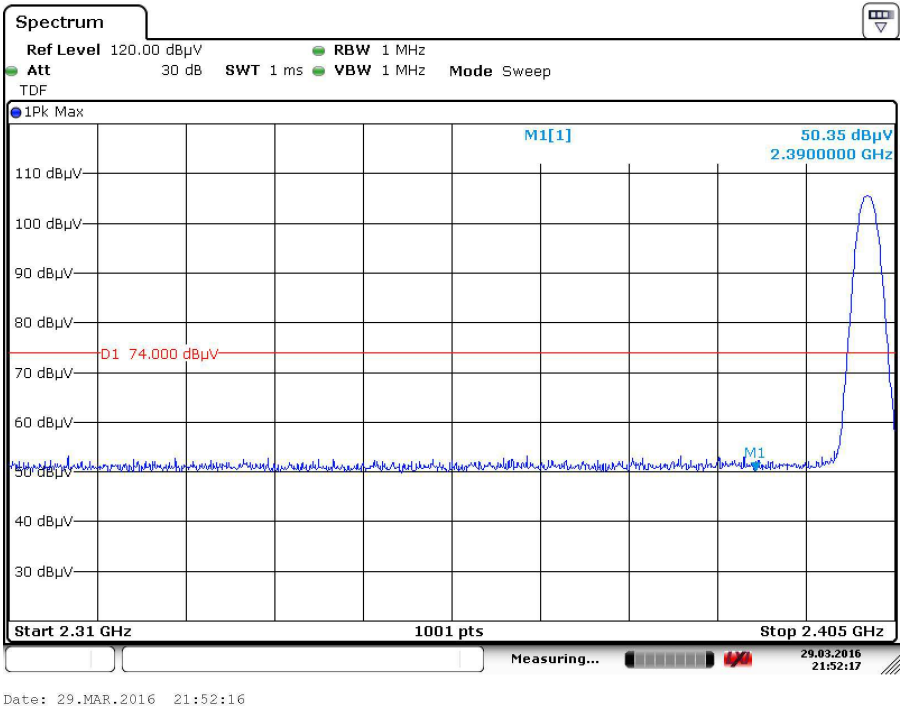
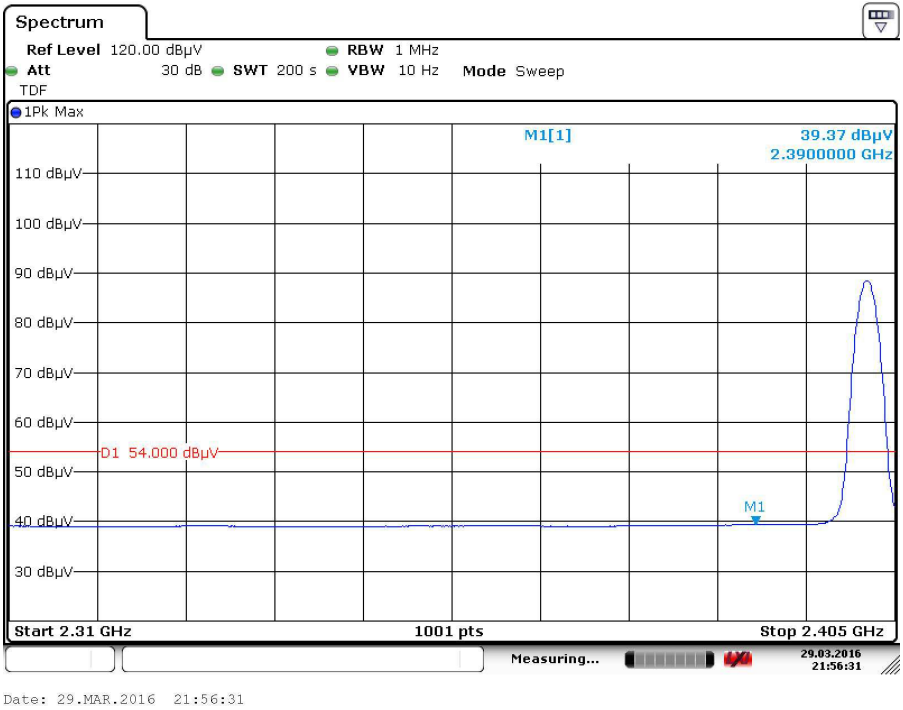
Radiated Bandedge (8DPSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

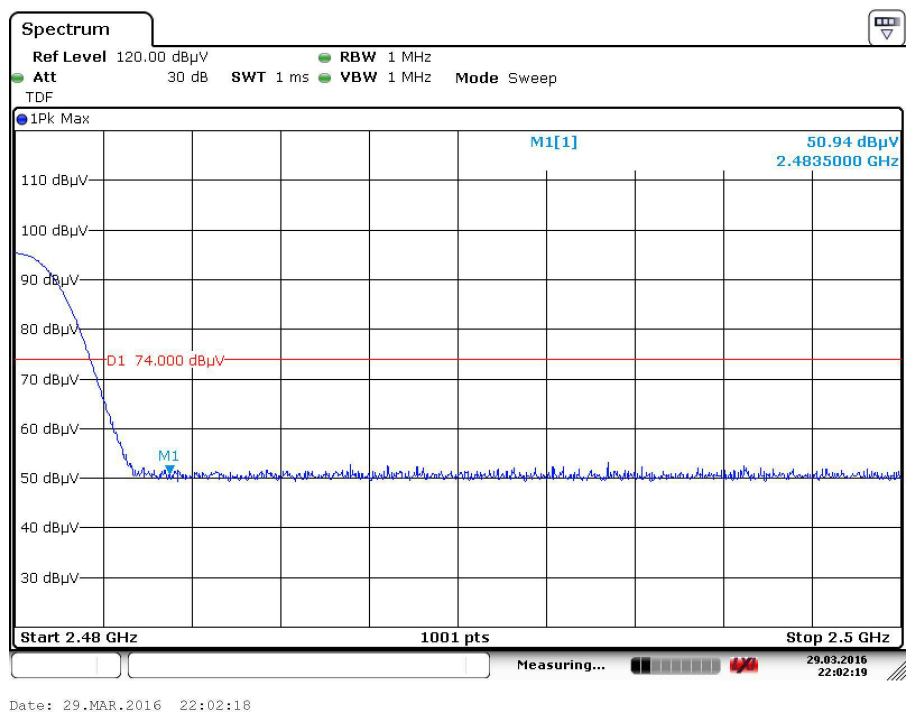
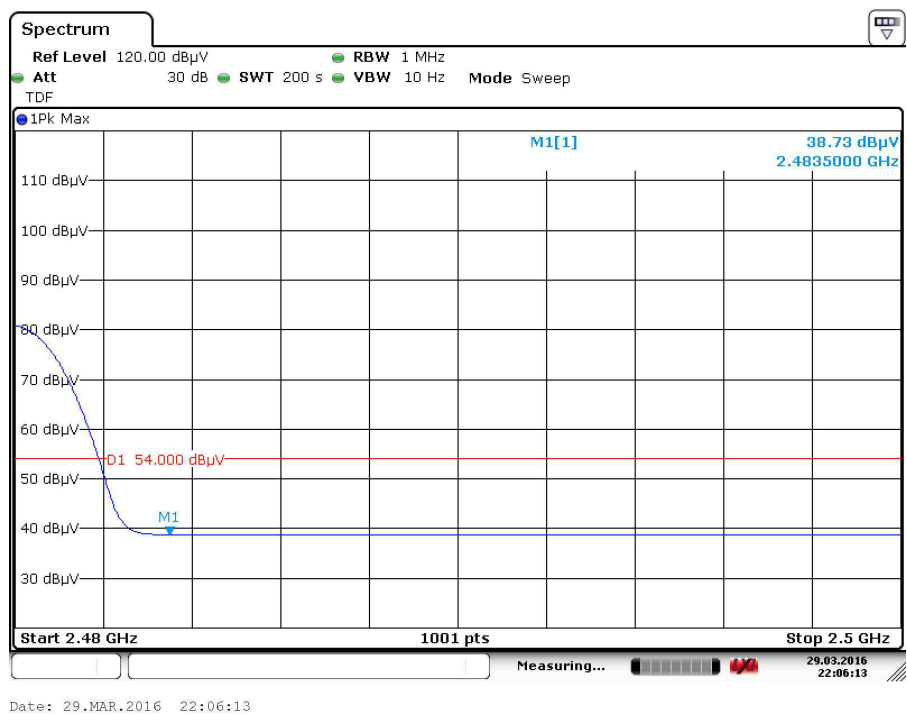
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

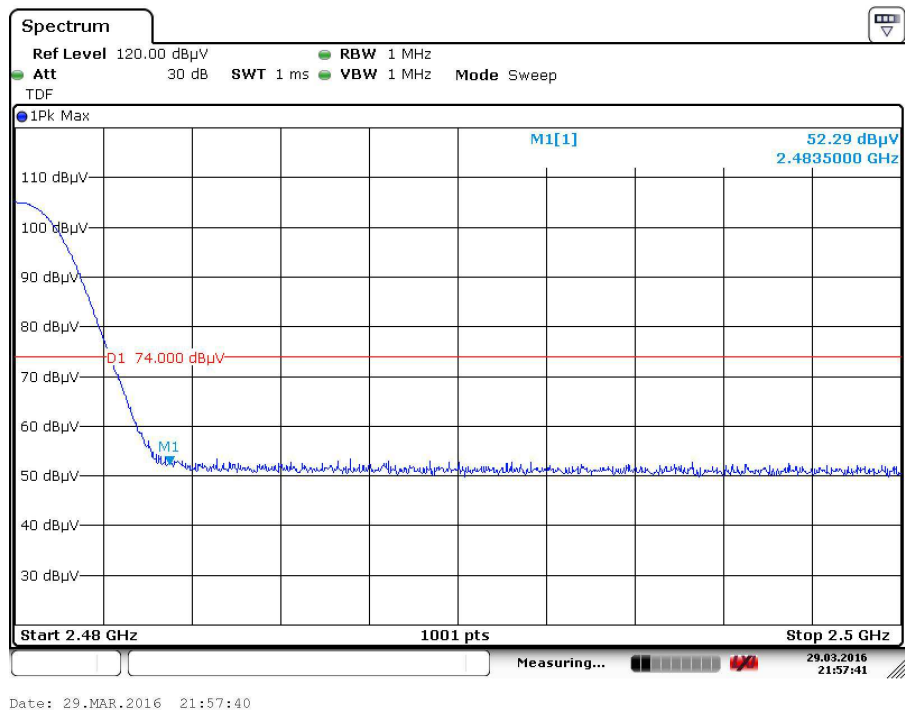
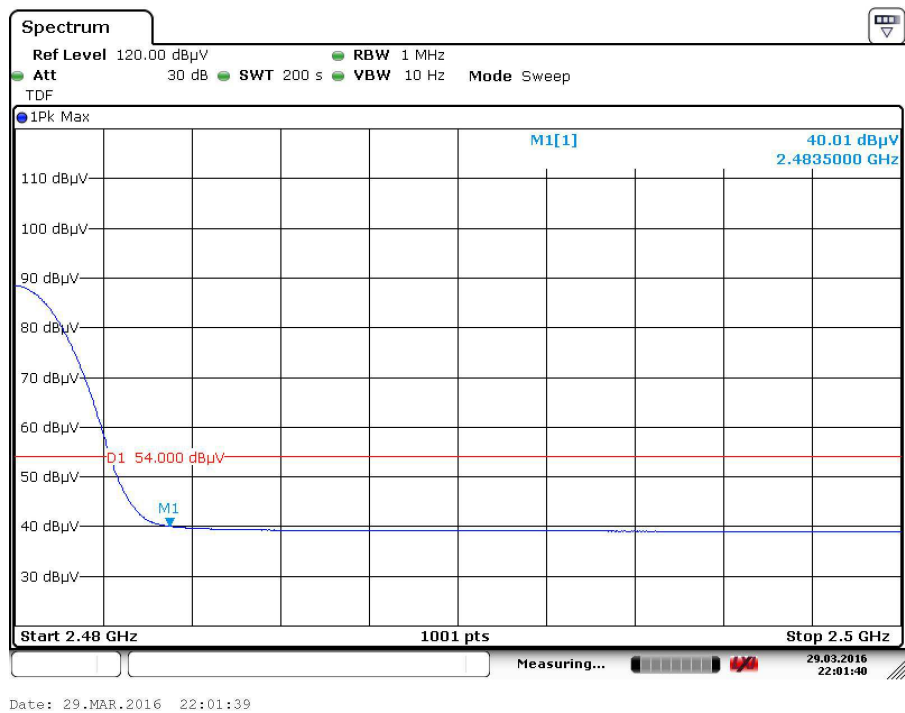
Radiated Bandedge (8DPSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

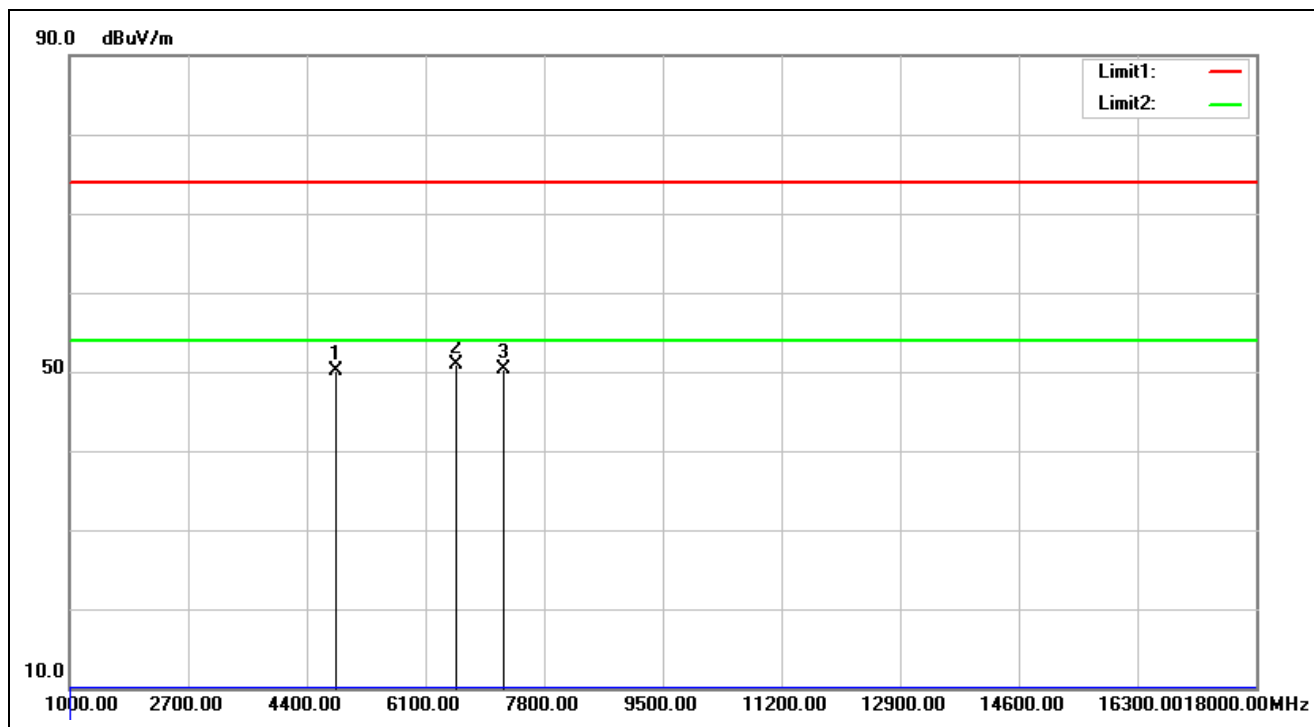
Spurious Emissions, TX Mode, 1-18G



TUV Taiwan

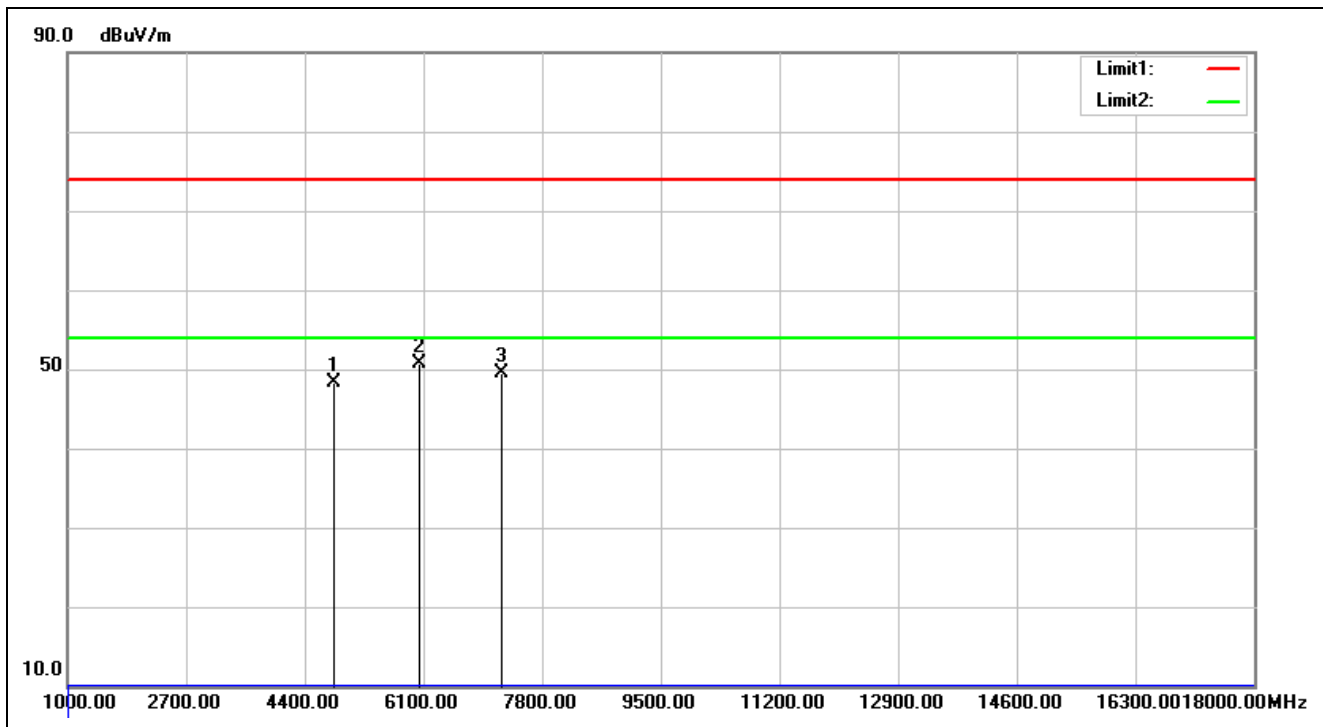
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



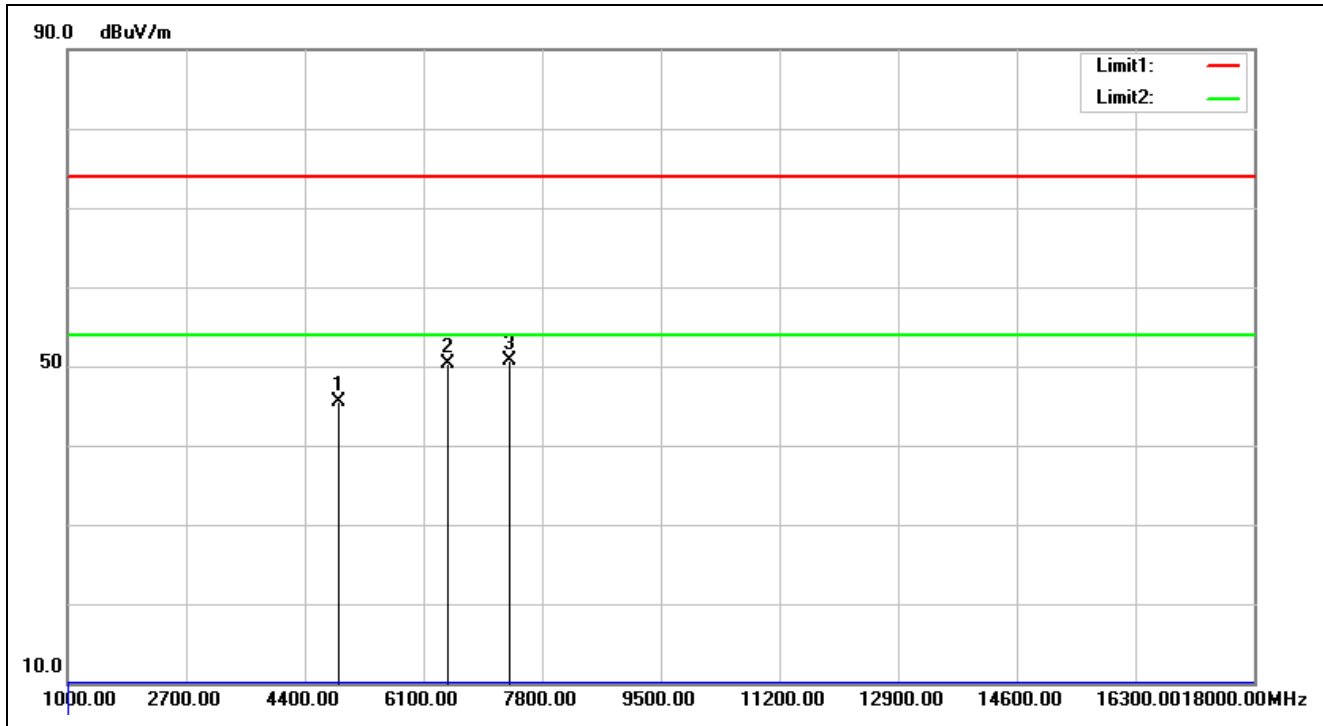
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:29:46
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	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	-2.28	52.47	50.19	74.00	-23.81	peak			
2	6542.000	5.95	44.96	50.91	74.00	-23.09	peak	100	207	
3	7206.000	5.77	44.60	50.37	74.00	-23.63	peak			



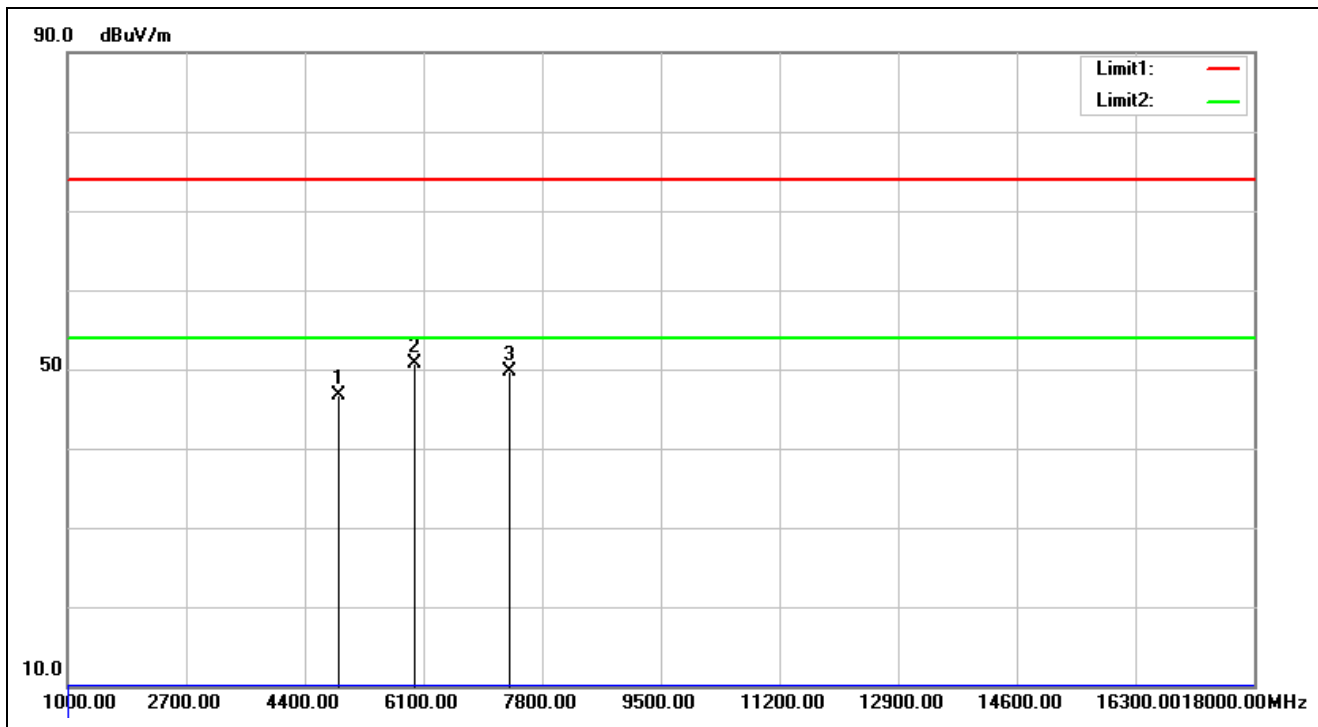
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:30:48
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	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	-2.28	50.67	48.39	74.00	-25.61	peak			
2	6032.000	4.26	46.38	50.64	74.00	-23.36	peak	100	181	
3	7206.000	5.77	43.65	49.42	74.00	-24.58	peak			



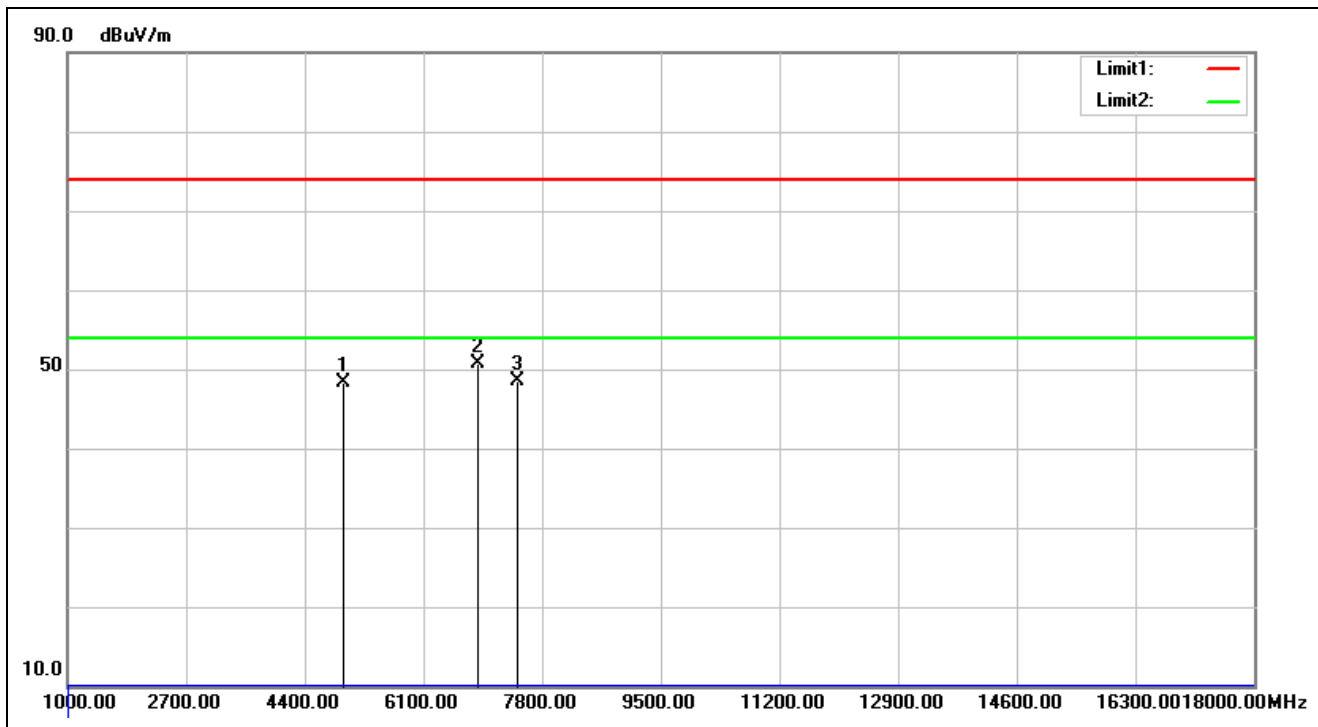
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:33:23
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	47.69	45.59	74.00	-28.41	peak			
2	6457.000	5.86	44.48	50.34	74.00	-23.66	peak	100	360	
3	7323.000	6.11	44.50	50.61	74.00	-23.39	peak			



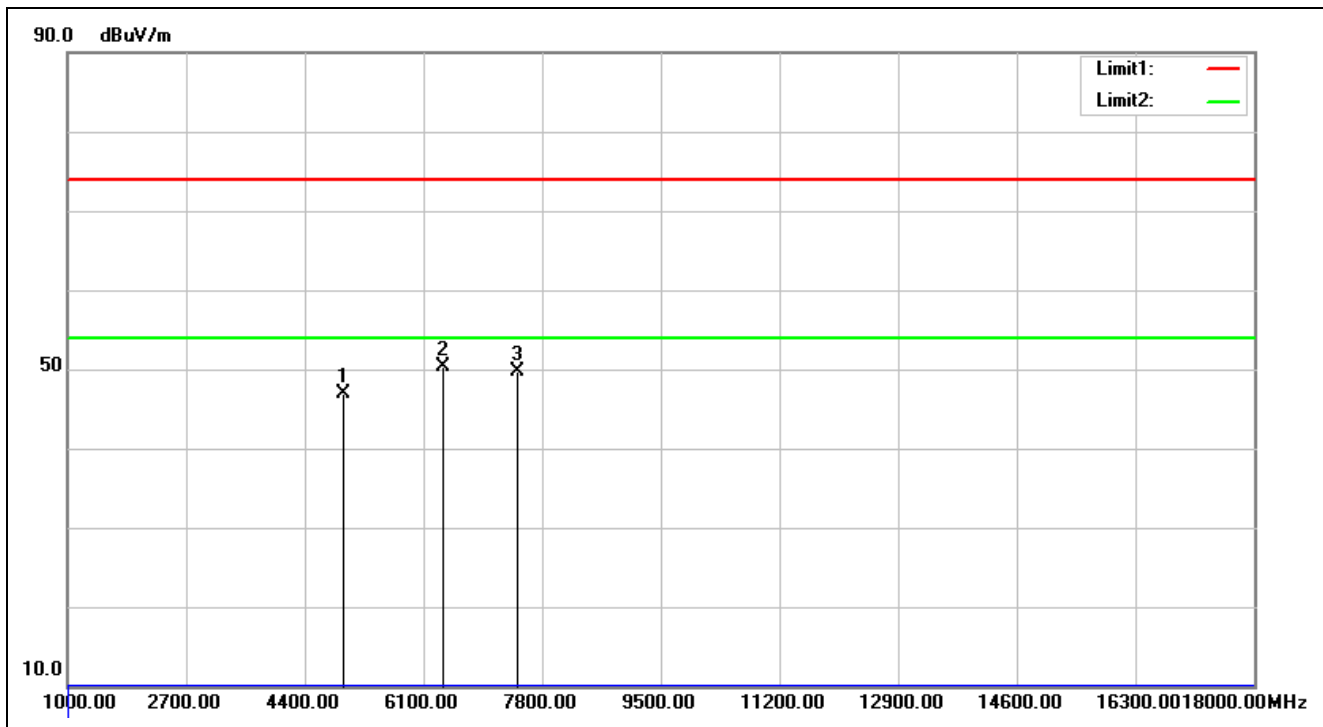
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Test item:	Radiation Emission	Test Time:	2016/4/1 19:34:26
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	48.84	46.74	74.00	-27.26	peak			
2	5964.000	3.89	46.78	50.67	74.00	-23.33	peak	100	280	
3	7323.000	6.11	43.51	49.62	74.00	-24.38	peak			



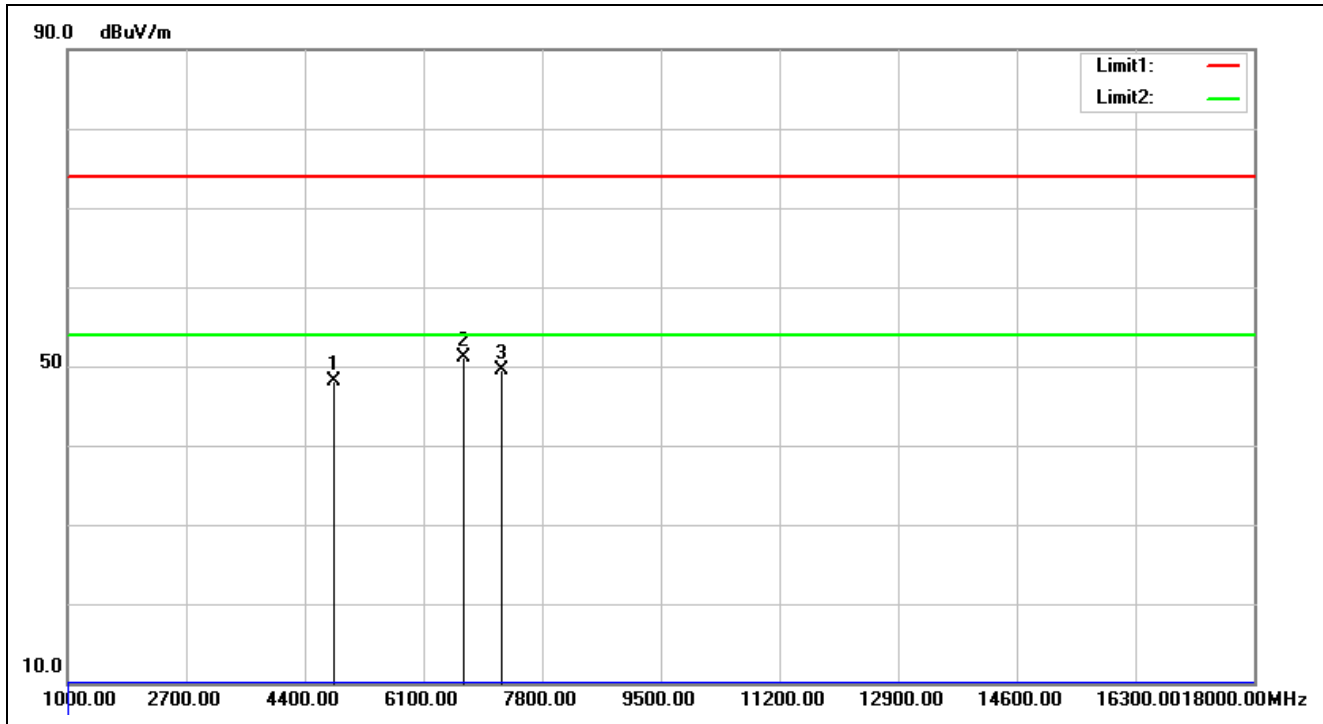
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Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	50.12	48.21	74.00	-25.79	peak			
2	6882.000	5.38	45.38	50.76	74.00	-23.24	peak	100	246	
3	7440.000	6.44	42.01	48.45	74.00	-25.55	peak			



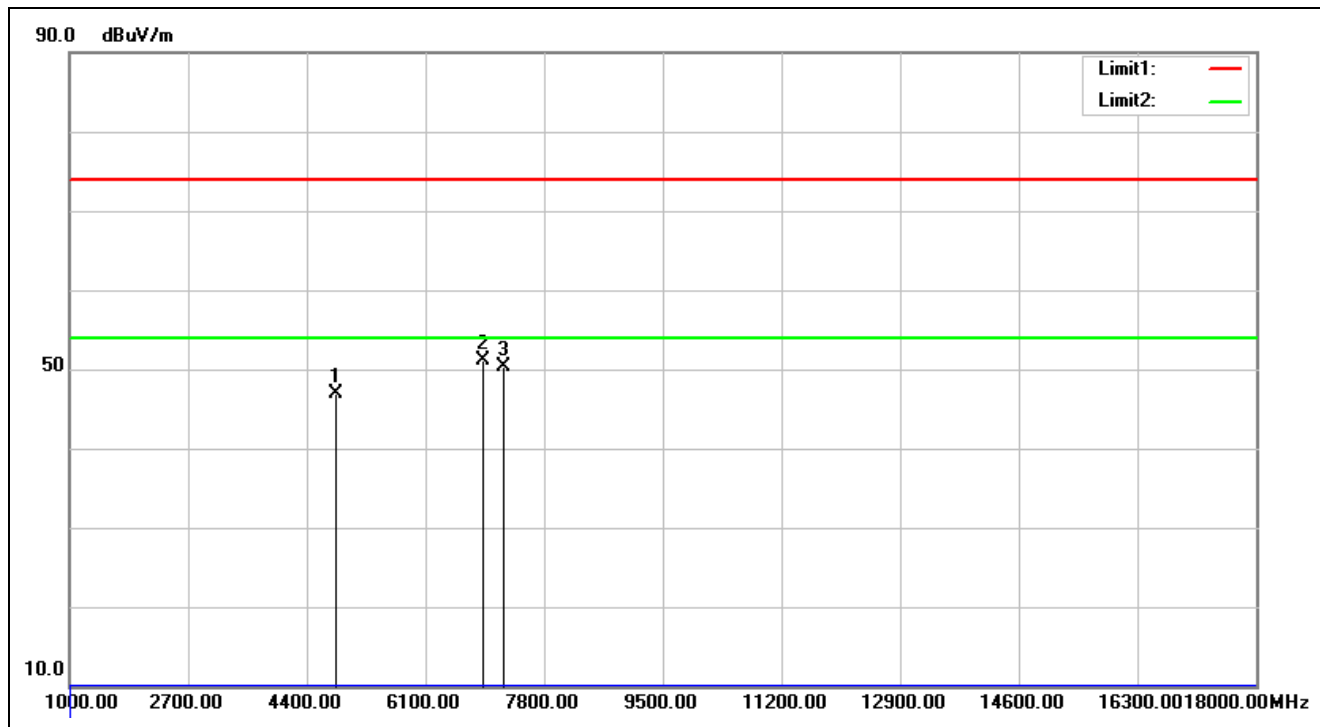
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Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	48.74	46.83	74.00	-27.17	peak			
2	6389.000	5.61	44.63	50.24	74.00	-23.76	peak	100	241	
3	7440.000	6.44	43.31	49.75	74.00	-24.25	peak			



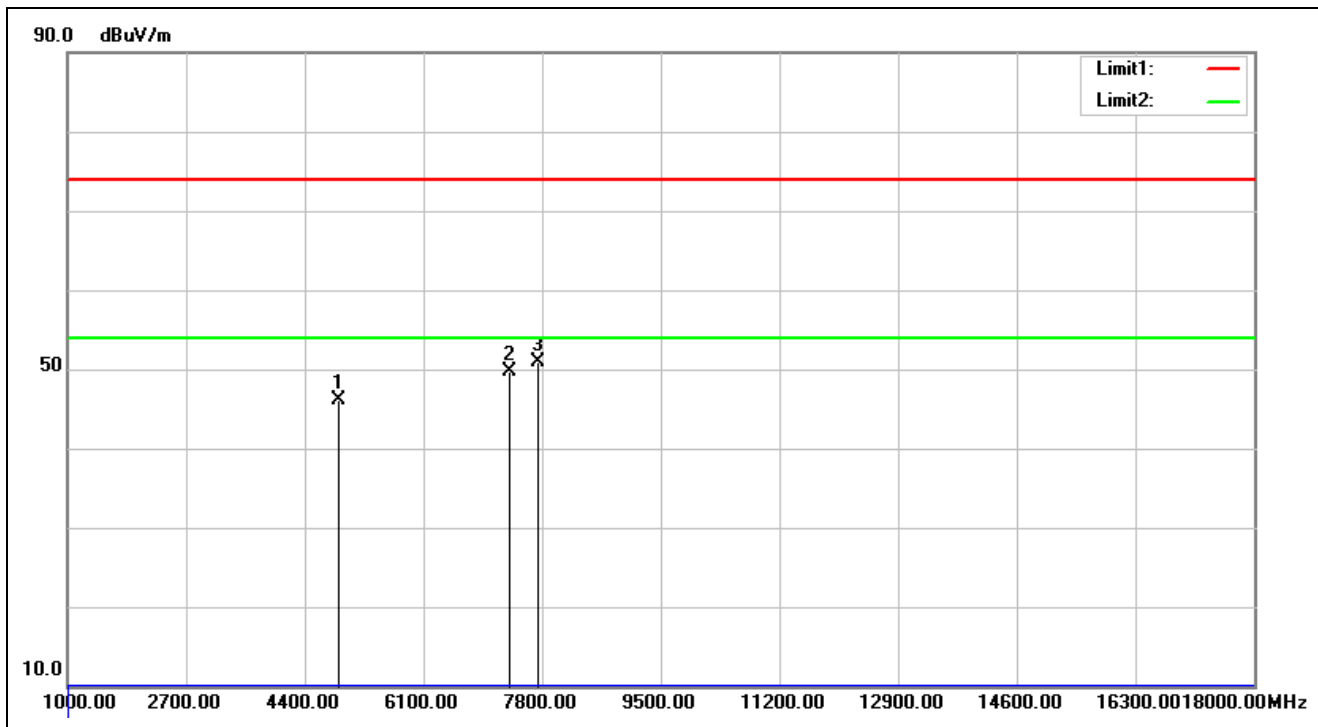
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Test item:	Radiation Emission	Test Time:	2016/4/1 19:39:59
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	50.38	48.10	74.00	-25.90	peak			
2	6678.000	5.72	45.30	51.02	74.00	-22.98	peak	100	158	
3	7206.000	5.77	43.66	49.43	74.00	-24.57	peak			



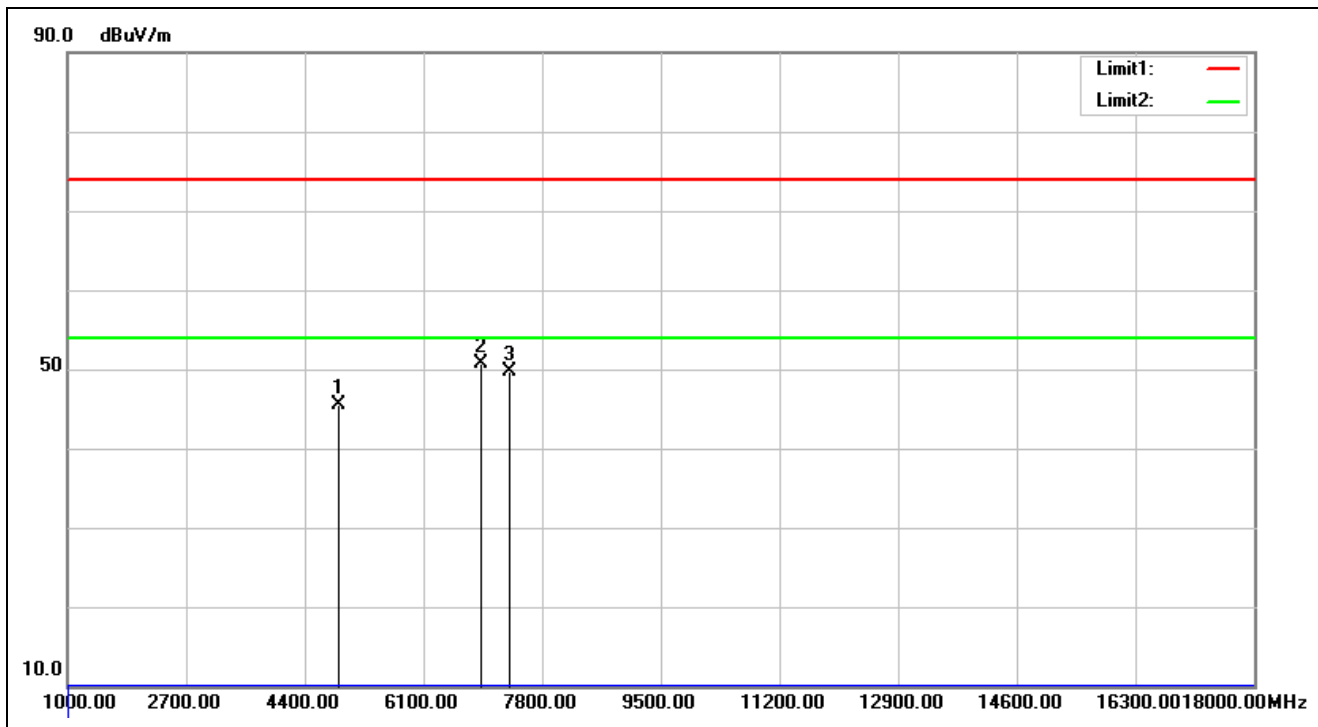
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:41:01
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	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	-2.28	49.15	46.87	74.00	-27.13	peak			
2	6933.000	5.30	45.77	51.07	74.00	-22.93	peak	100	25	
3	7206.000	5.77	44.58	50.35	74.00	-23.65	peak			



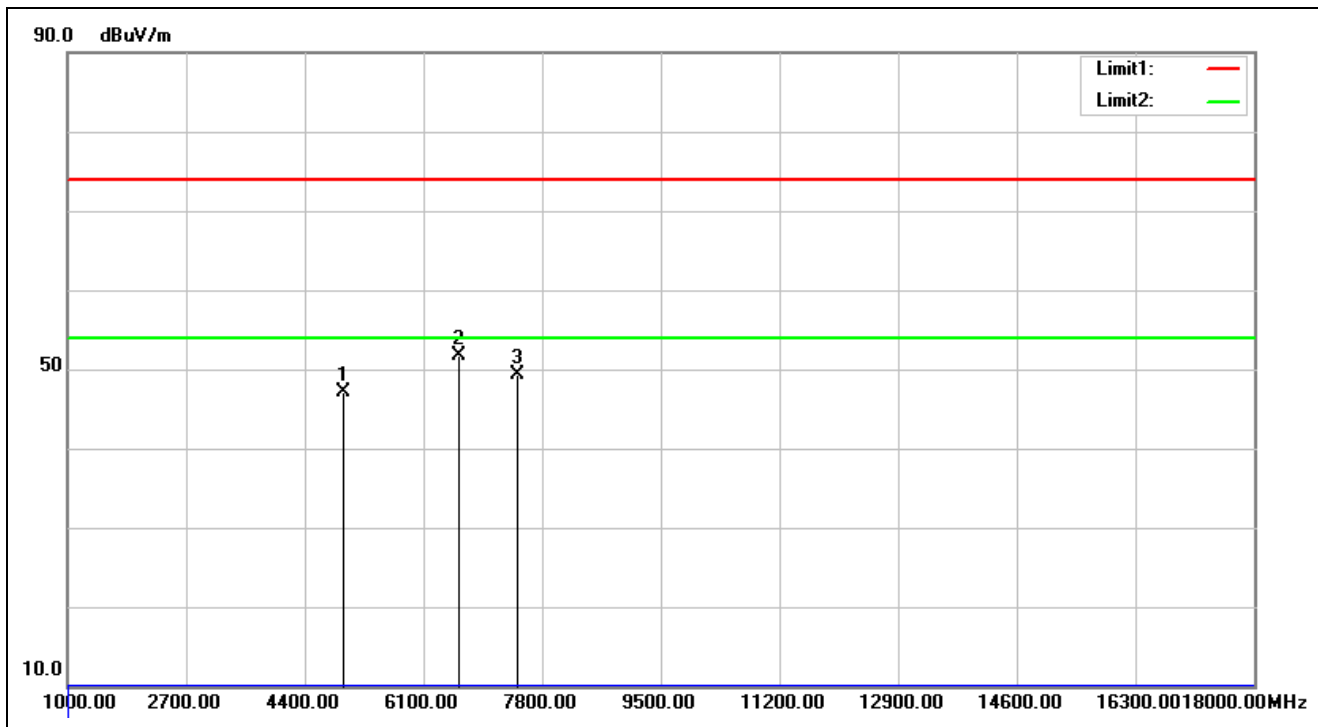
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:43:19
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	48.16	46.06	74.00	-27.94	peak			
2	7323.000	6.11	43.60	49.71	74.00	-24.29	peak			
3	7732.000	6.60	44.39	50.99	74.00	-23.01	peak	100	188	



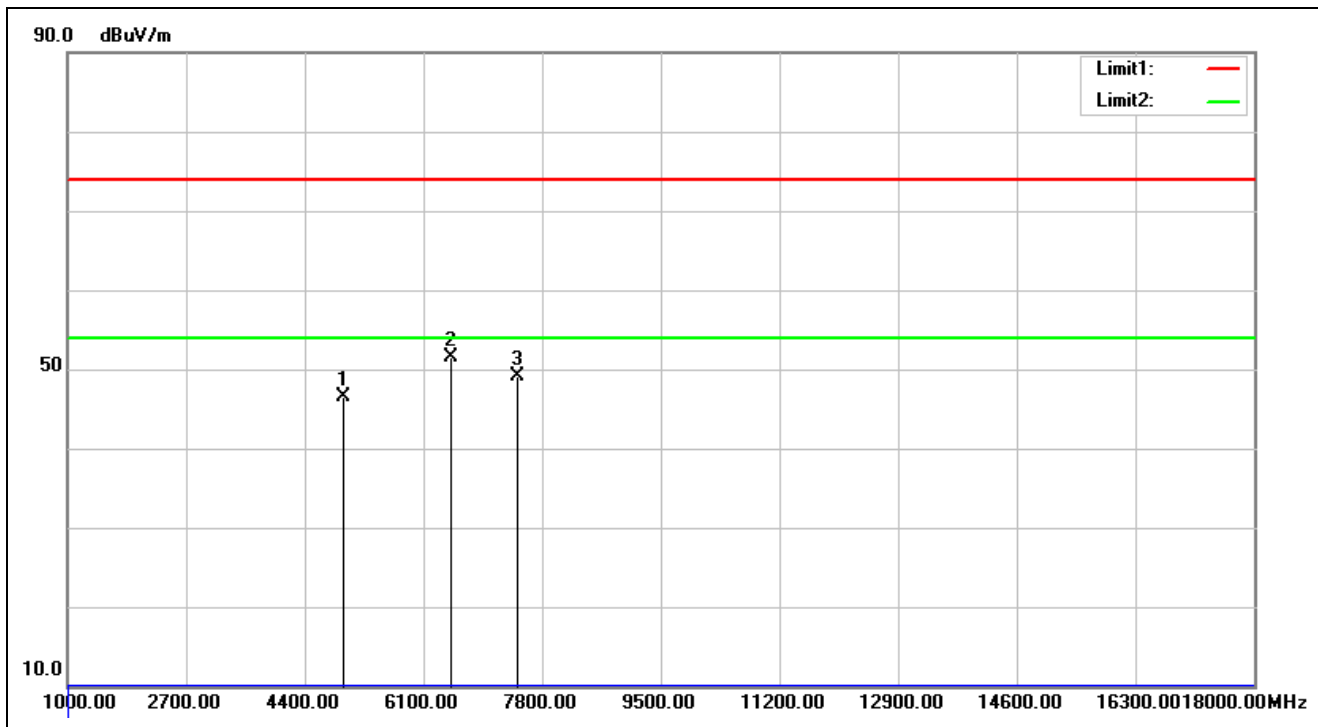
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Test item:	Radiation Emission	Test Time:	2016/4/1 19:44:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	47.51	45.41	74.00	-28.59	peak			
2	6916.000	5.32	45.31	50.63	74.00	-23.37	peak	100	0	
3	7323.000	6.11	43.60	49.71	74.00	-24.29	peak			



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:46:58
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%) :	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	49.05	47.14	74.00	-26.86	peak			
2	6610.000	5.84	45.86	51.70	74.00	-22.30	peak	100	360	
3	7440.000	6.44	42.88	49.32	74.00	-24.68	peak			



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:48:01
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	48.38	46.47	74.00	-27.53	peak			
2	6491.000	5.99	45.52	51.51	74.00	-22.49	peak	100	293	
3	7440.000	6.44	42.61	49.05	74.00	-24.95	peak			

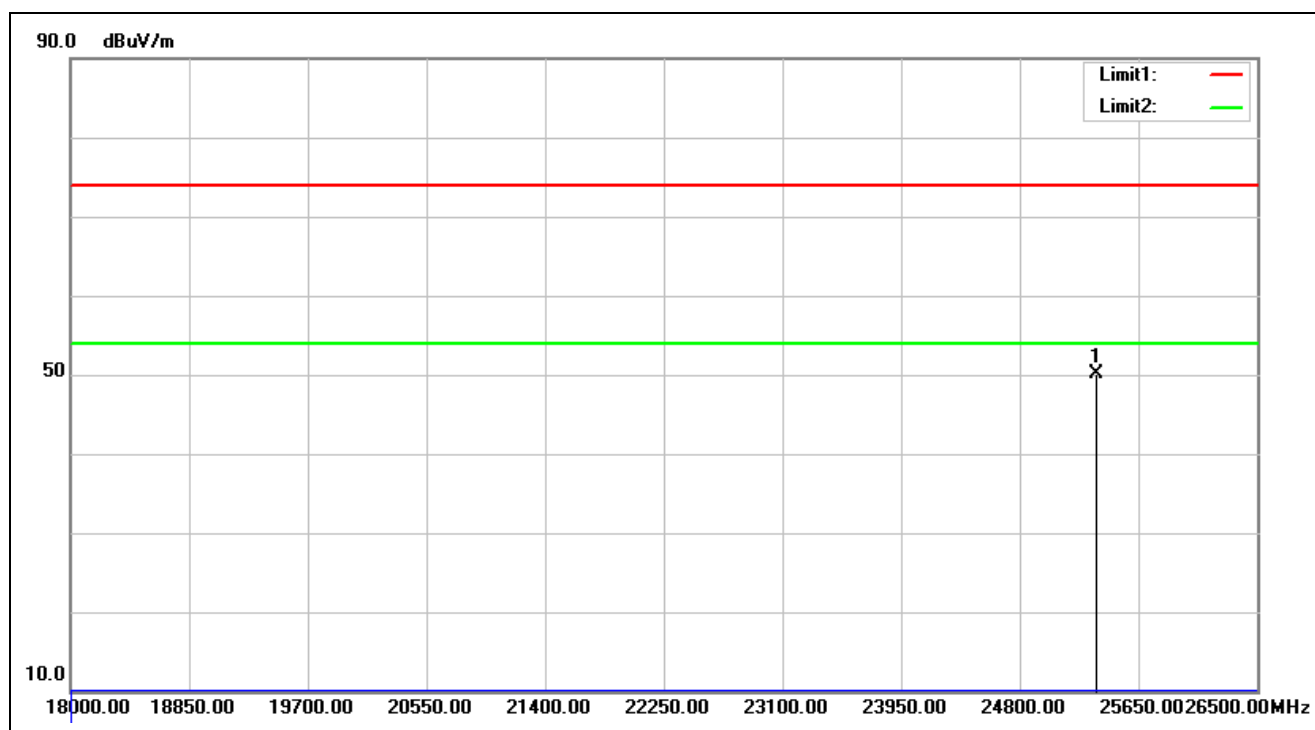
Spurious Emissions, TX Mode, 18-26G



TUV Taiwan

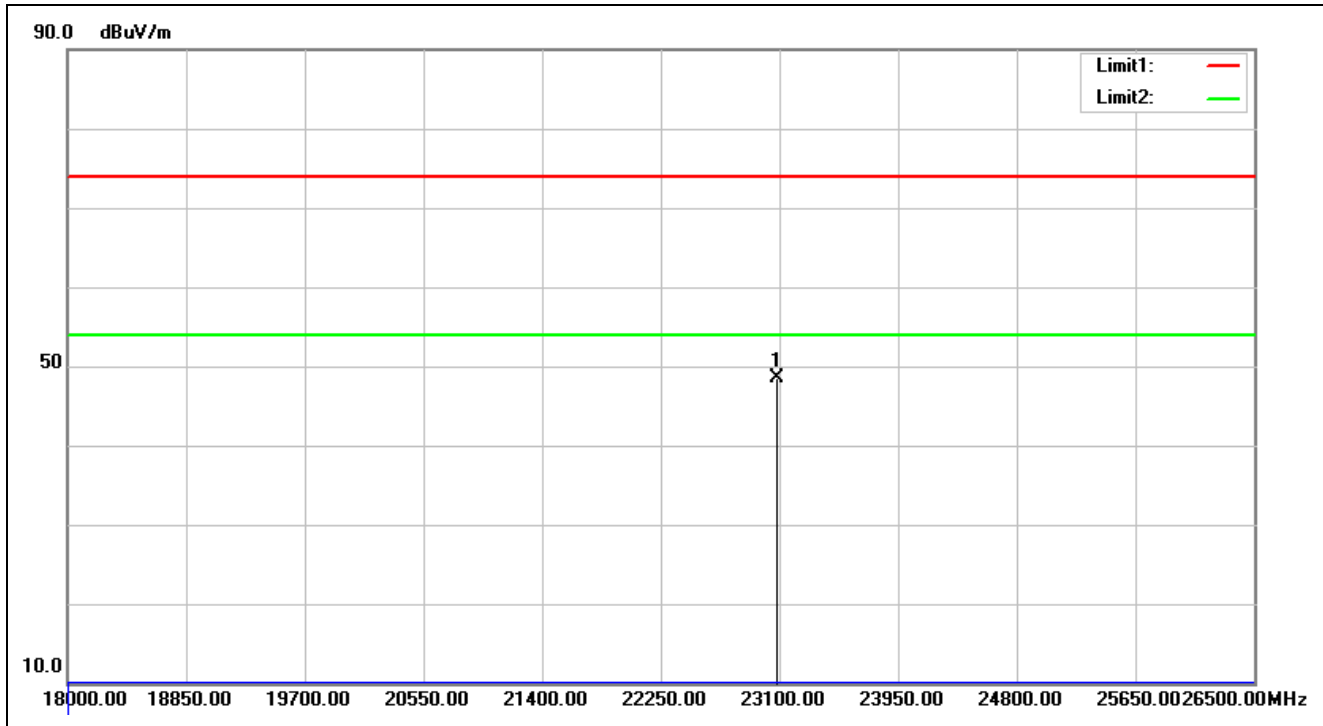
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



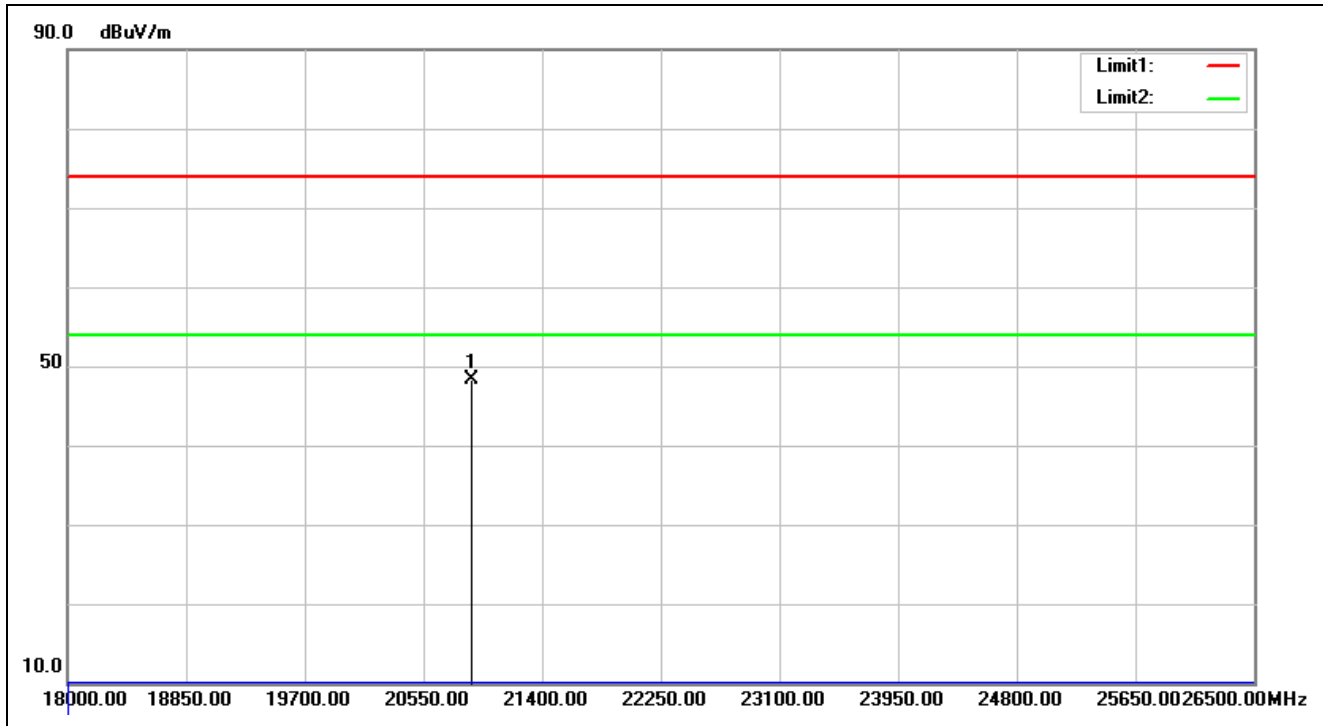
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:25:09
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	25352.500	31.63	18.48	50.11	74.00	-23.89	peak		0	



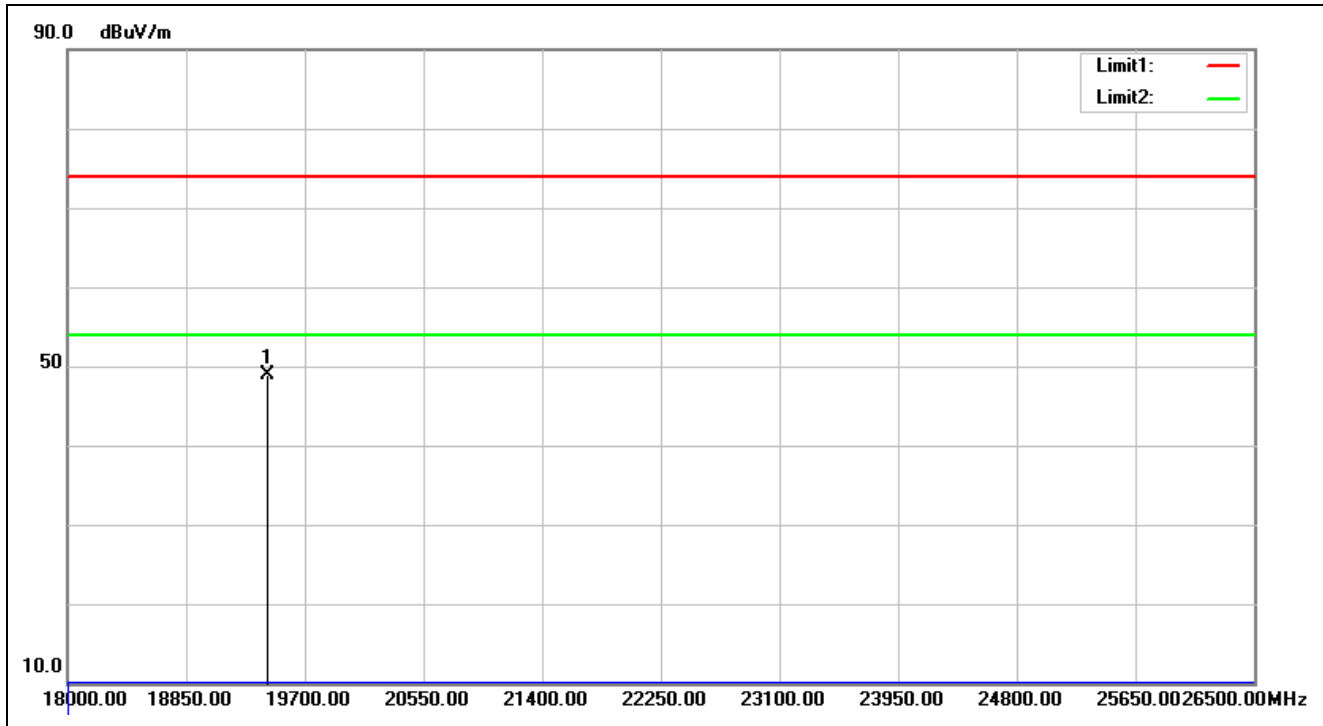
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:25:17
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	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	23083.000	30.41	18.11	48.52	74.00	-25.48	peak			



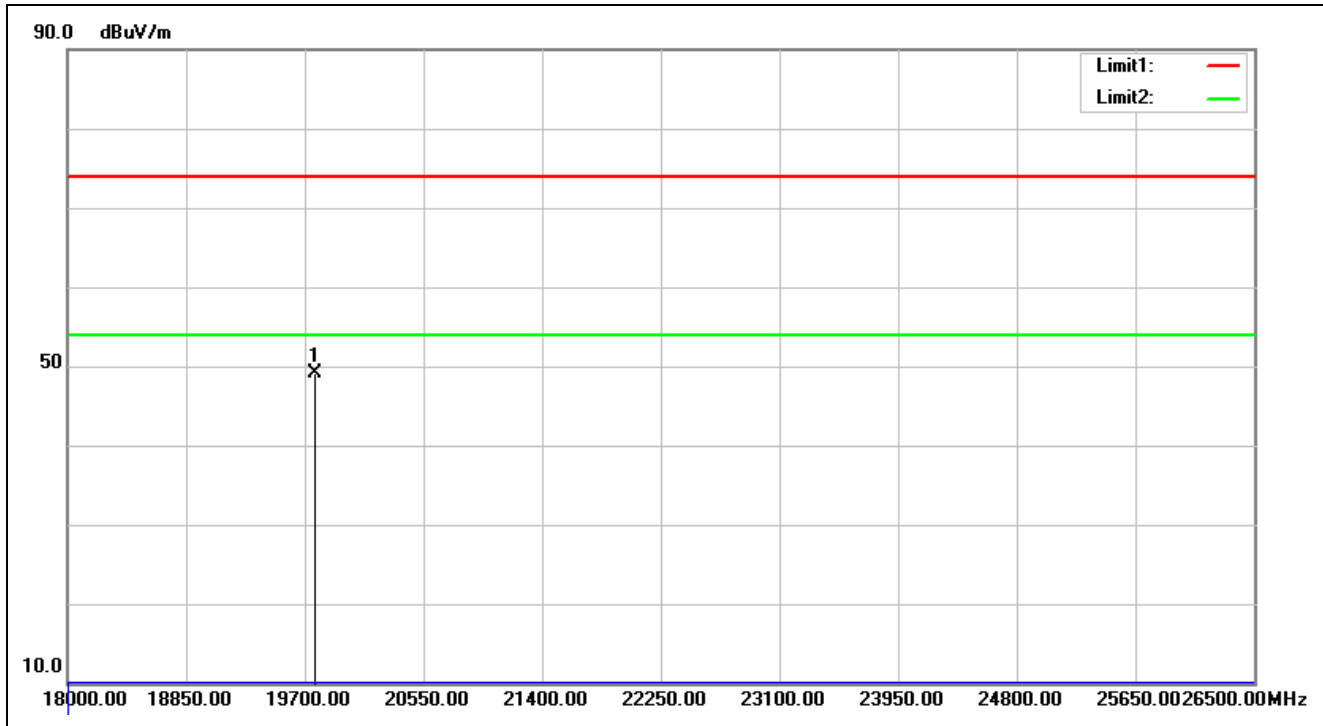
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:25:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20898.500	29.95	18.44	48.39	74.00	-25.61	peak			



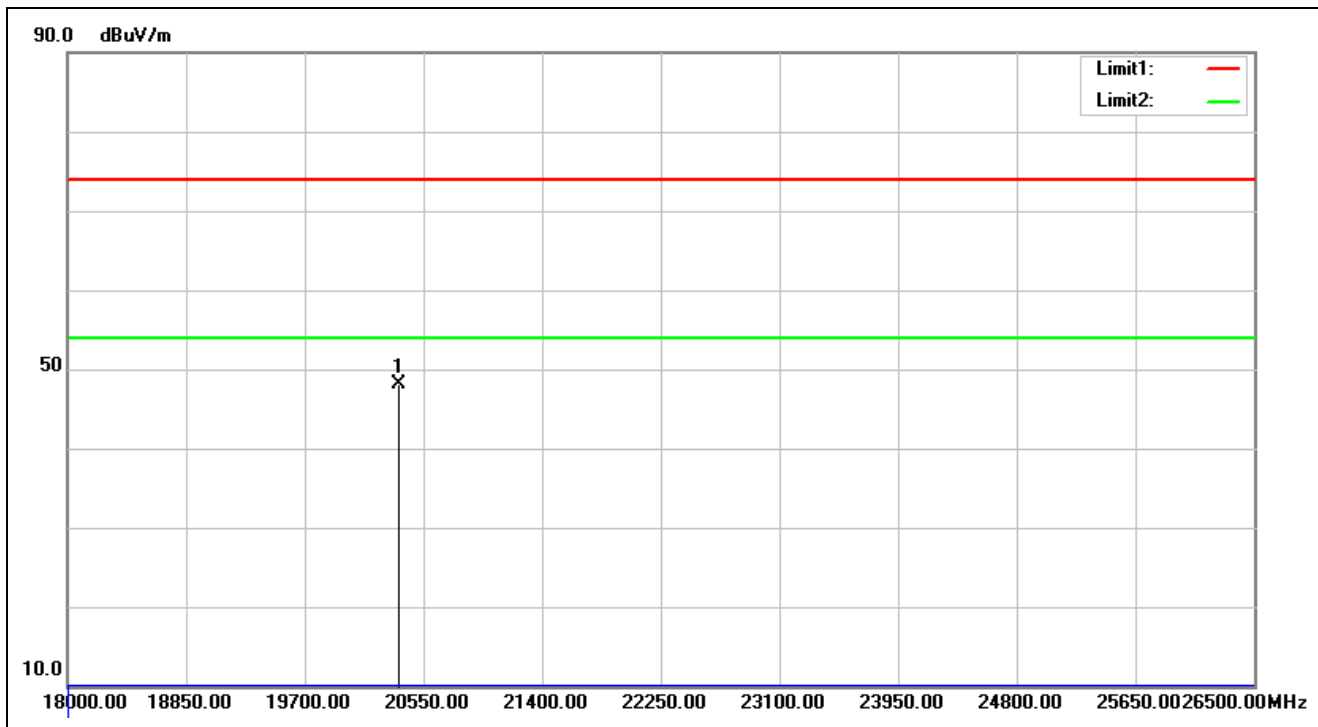
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:25:38
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19428.000	29.53	19.29	48.82	74.00	-25.18	peak			



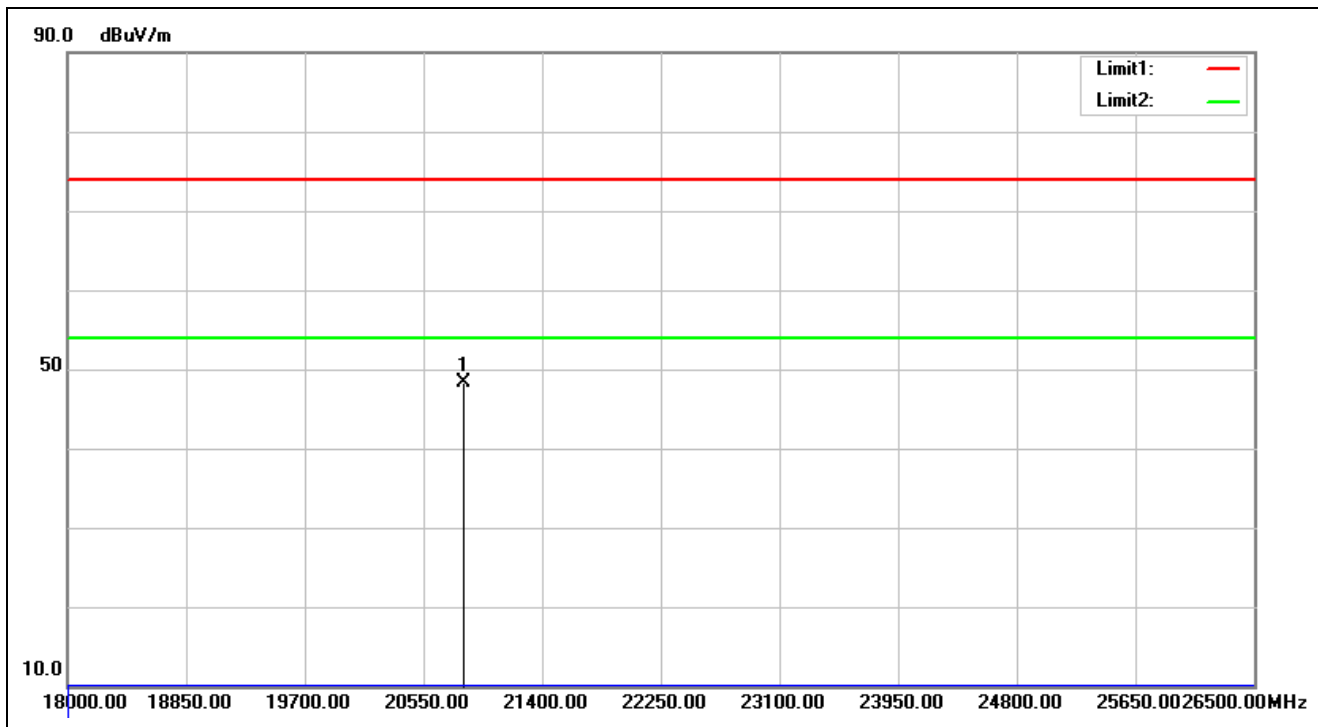
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:25:52
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	19776.500	29.56	19.51	49.07	74.00	-24.93	peak			



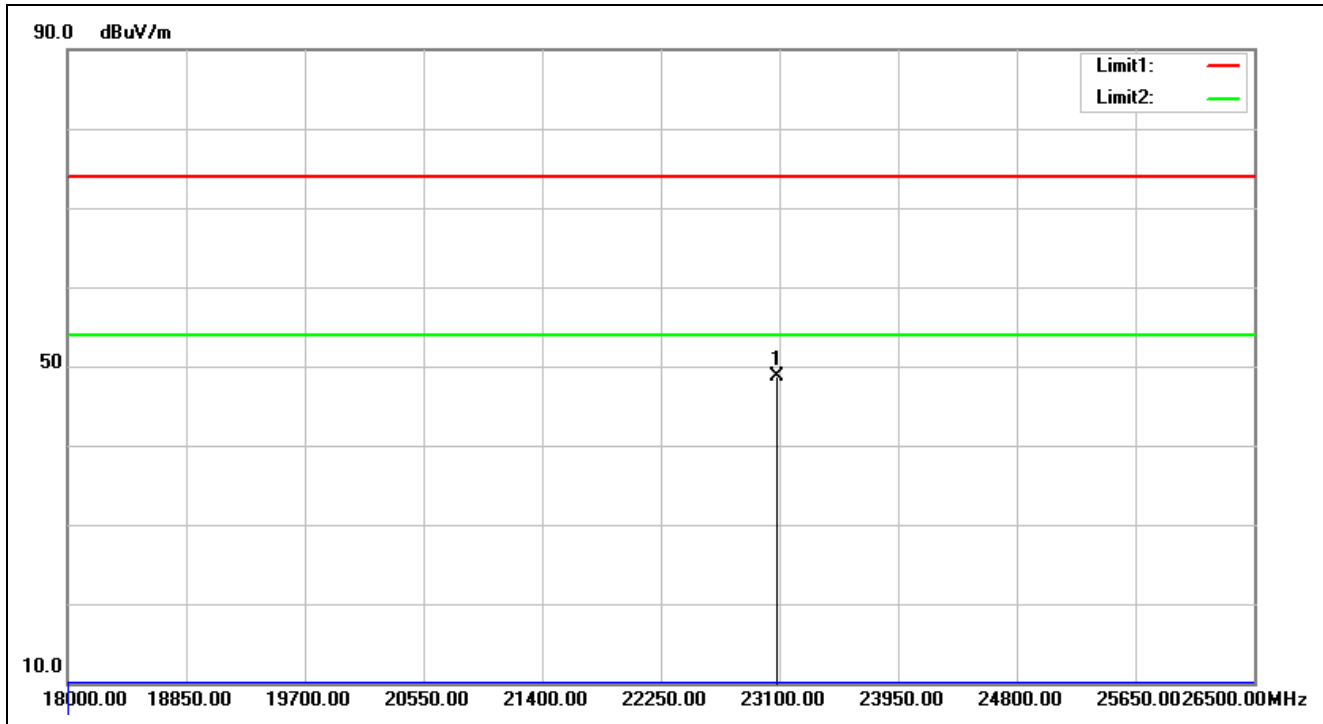
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:25:59
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	20371.500	29.78	18.28	48.06	74.00	-25.94	peak			



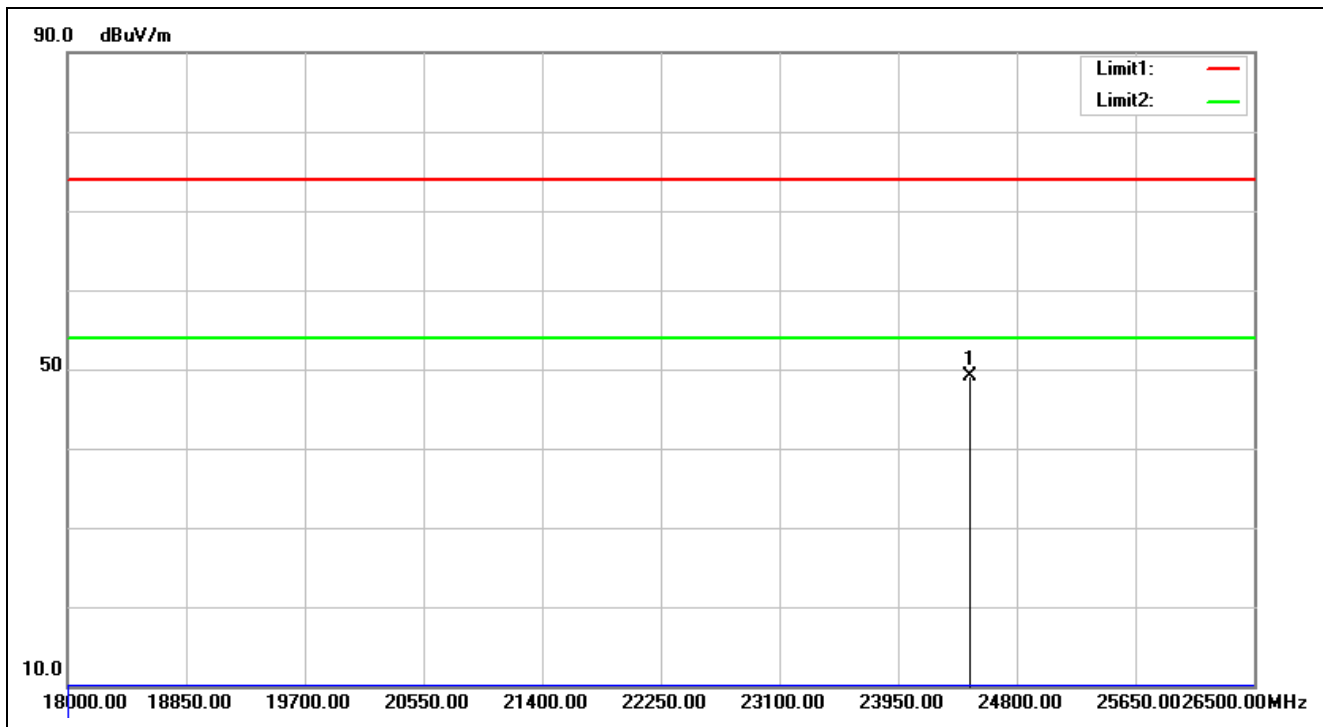
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:26:12
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	20839.000	29.94	18.31	48.25	74.00	-25.75	peak			



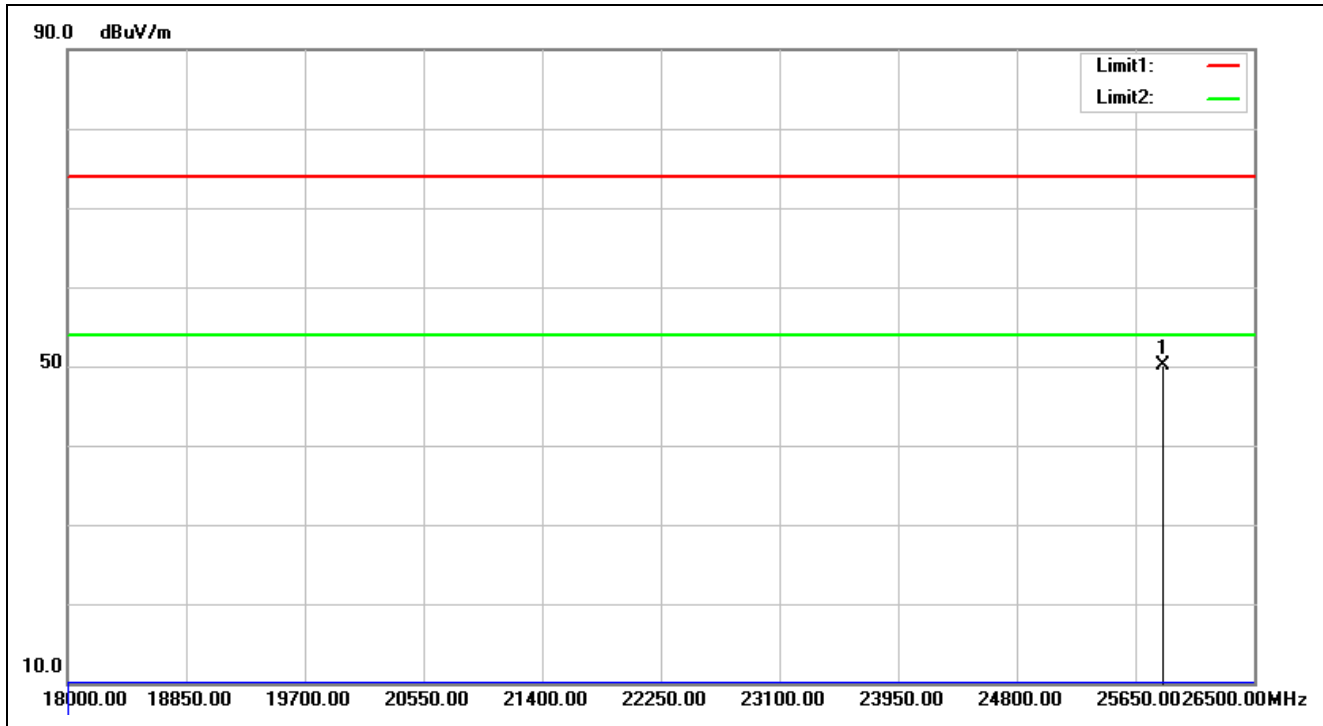
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:26:19
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	23083.000	30.41	18.30	48.71	74.00	-25.29	peak			



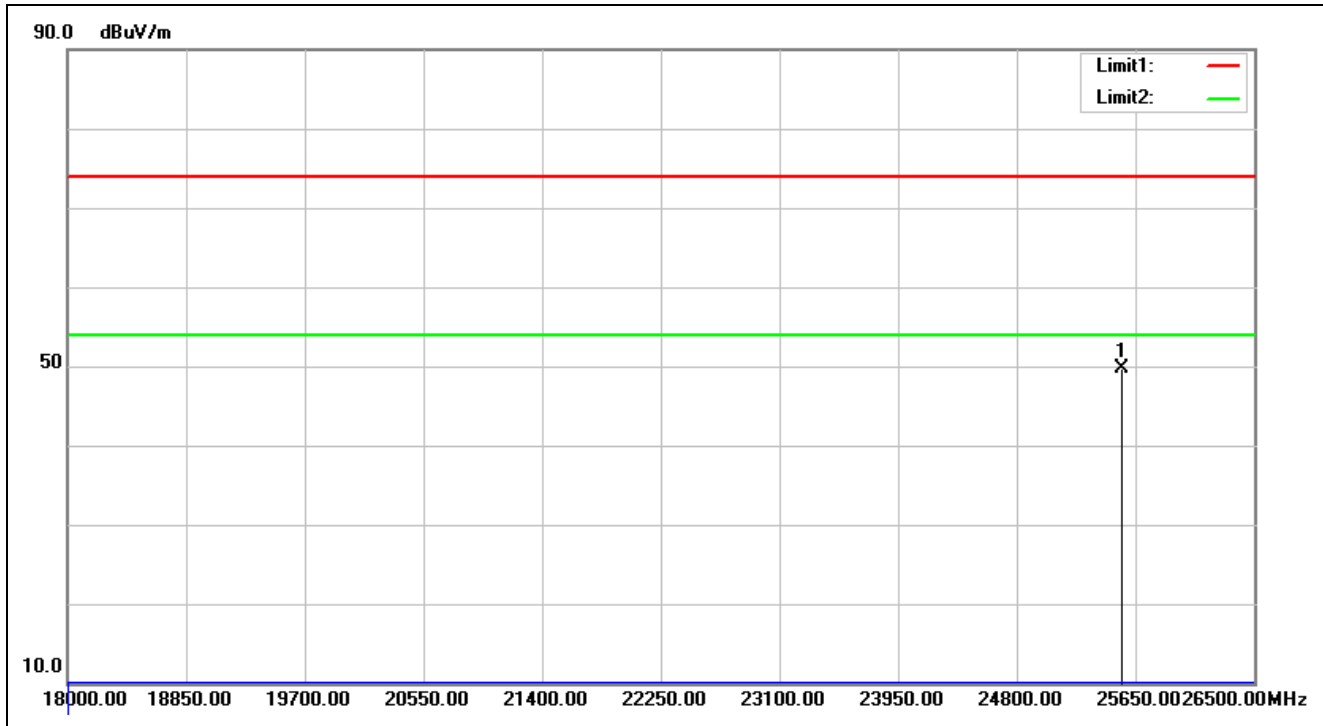
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:26:31
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	24468.500	30.39	18.64	49.03	74.00	-24.97	peak			



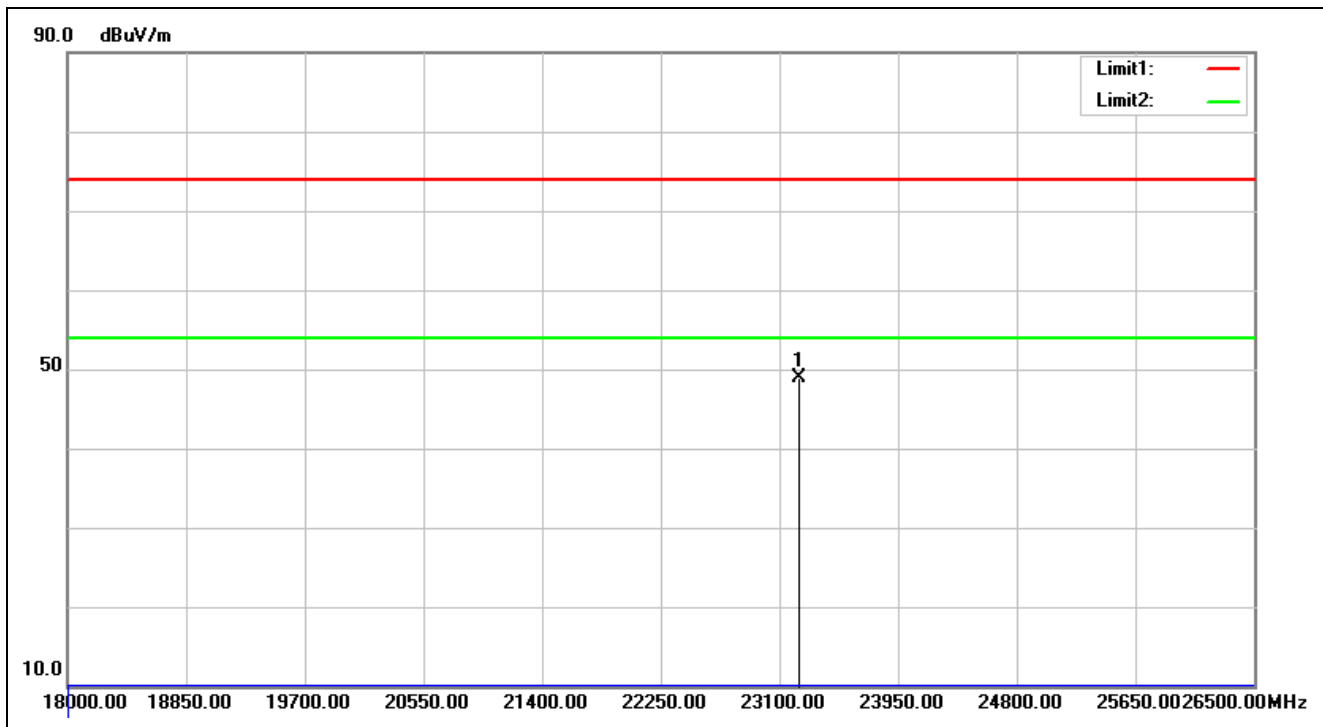
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:26:39
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25845.500	32.26	17.78	50.04	74.00	-23.96	peak			



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:26:54
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25548.000	31.85	17.94	49.79	74.00	-24.21	peak			



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:27:00
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23244.500	30.25	18.71	48.96	74.00	-25.04	peak			

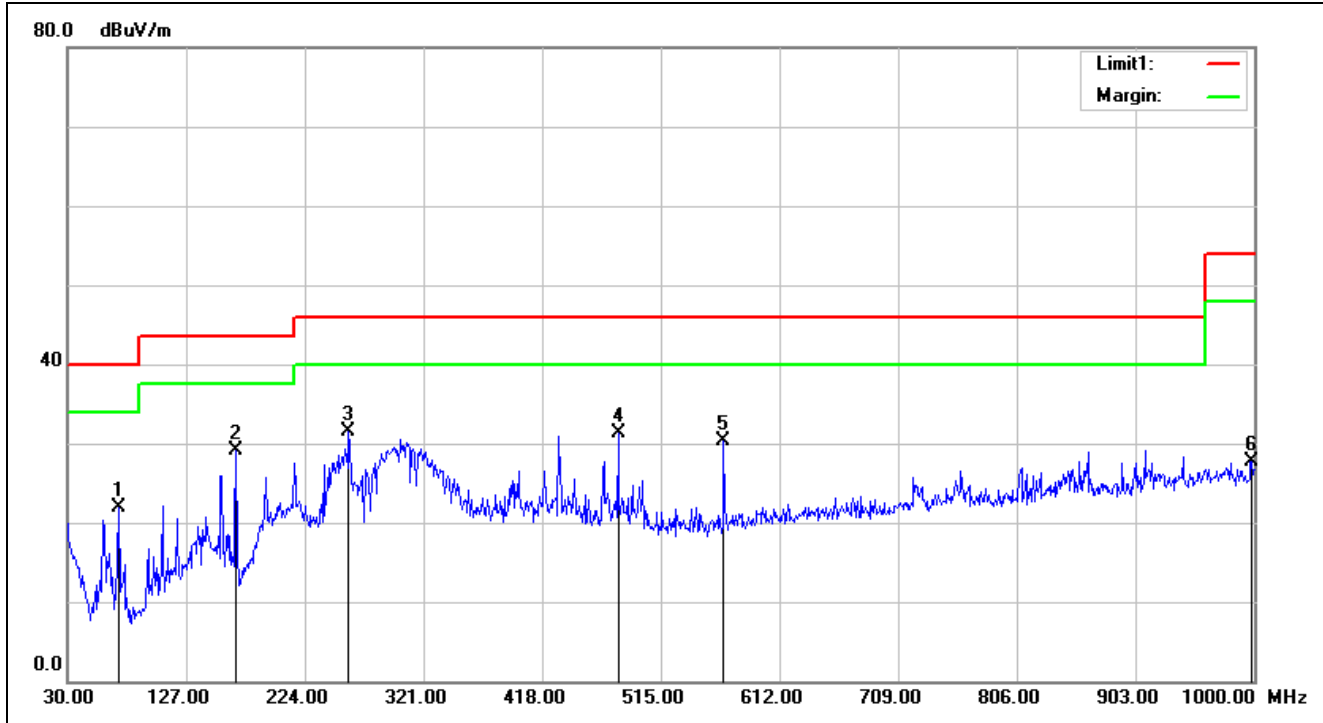
Spurious Emissions, TX Mode, 30M-1G



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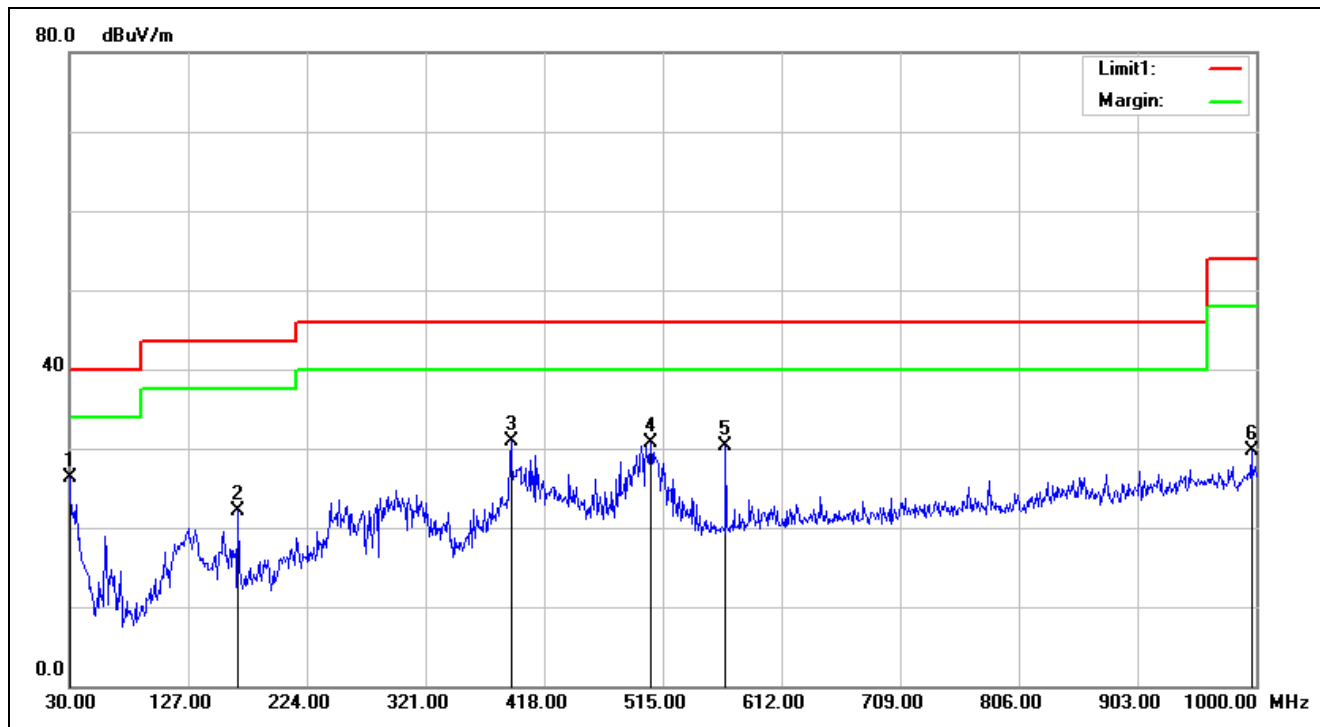
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 14:56:49
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	71.7099	-18.64	40.56	21.92	40.00	-18.08	QP	100	163	
2	167.7400	-14.60	43.61	29.01	43.50	-14.49	QP	100	19	
3	259.8900	-10.81	42.24	31.43	46.00	-14.57	QP	100	269	
4	480.0800	-7.59	38.90	31.31	46.00	-14.69	QP	100	208	
5	566.4100	-6.66	37.04	30.38	46.00	-15.62	QP	100	224	
6	998.0600	-0.01	27.81	27.80	54.00	-26.20	QP	100	238	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 14:57:52
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-5.85	32.17	26.32	40.00	-13.68	QP	100	160	
2	167.7400	-14.60	36.65	22.05	43.50	-21.45	QP	100	176	
3	390.8400	-8.80	39.61	30.81	46.00	-15.19	QP	100	216	
4	505.3000	-7.27	37.91	30.64	46.00	-15.36	QP	100	197	
5	566.4100	-6.66	36.98	30.32	46.00	-15.68	QP	100	136	
6	996.1200	-0.03	29.65	29.62	54.00	-24.38	QP	100	282	

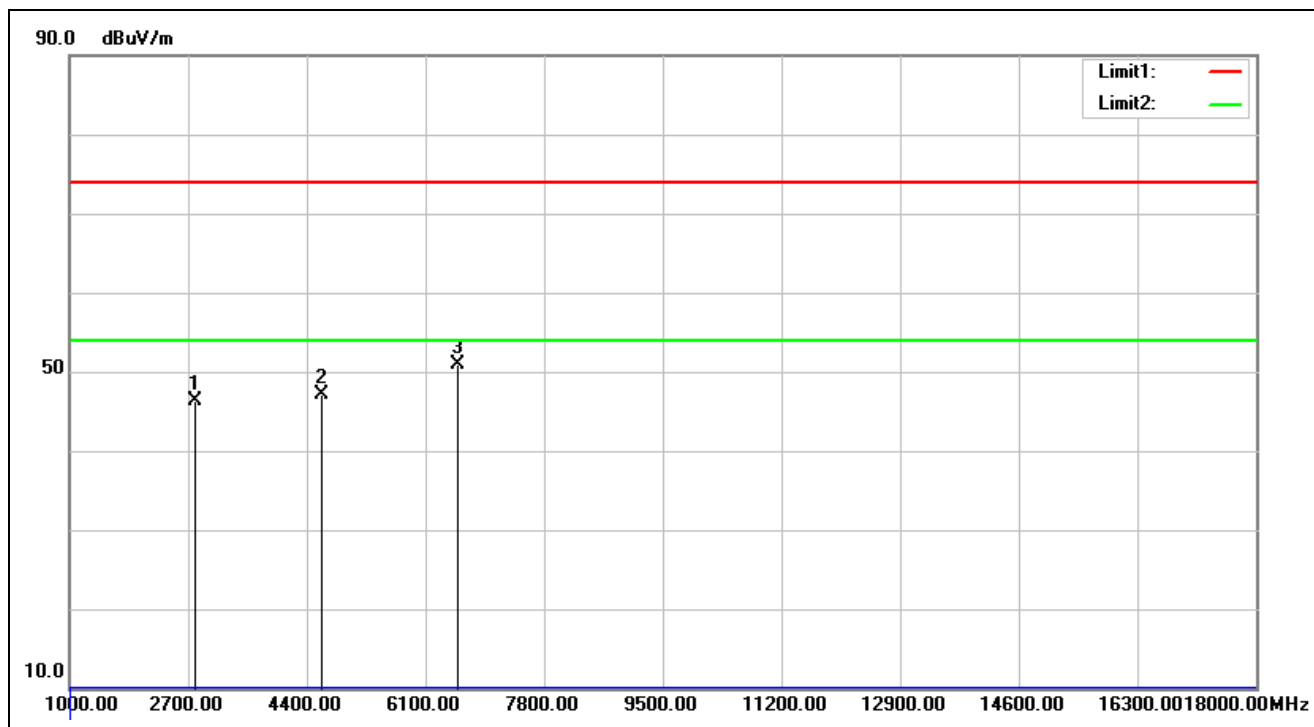
Spurious Emissions, RX Mode, 1-18G



TUV Taiwan

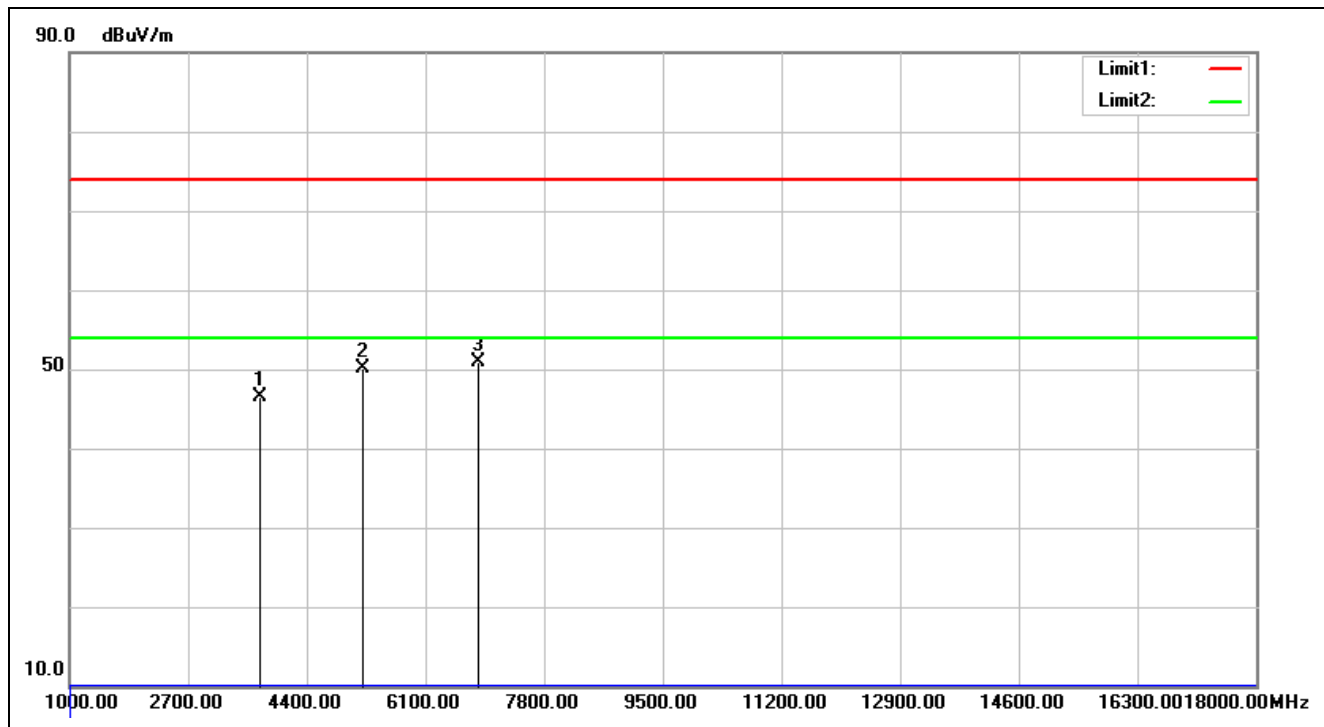
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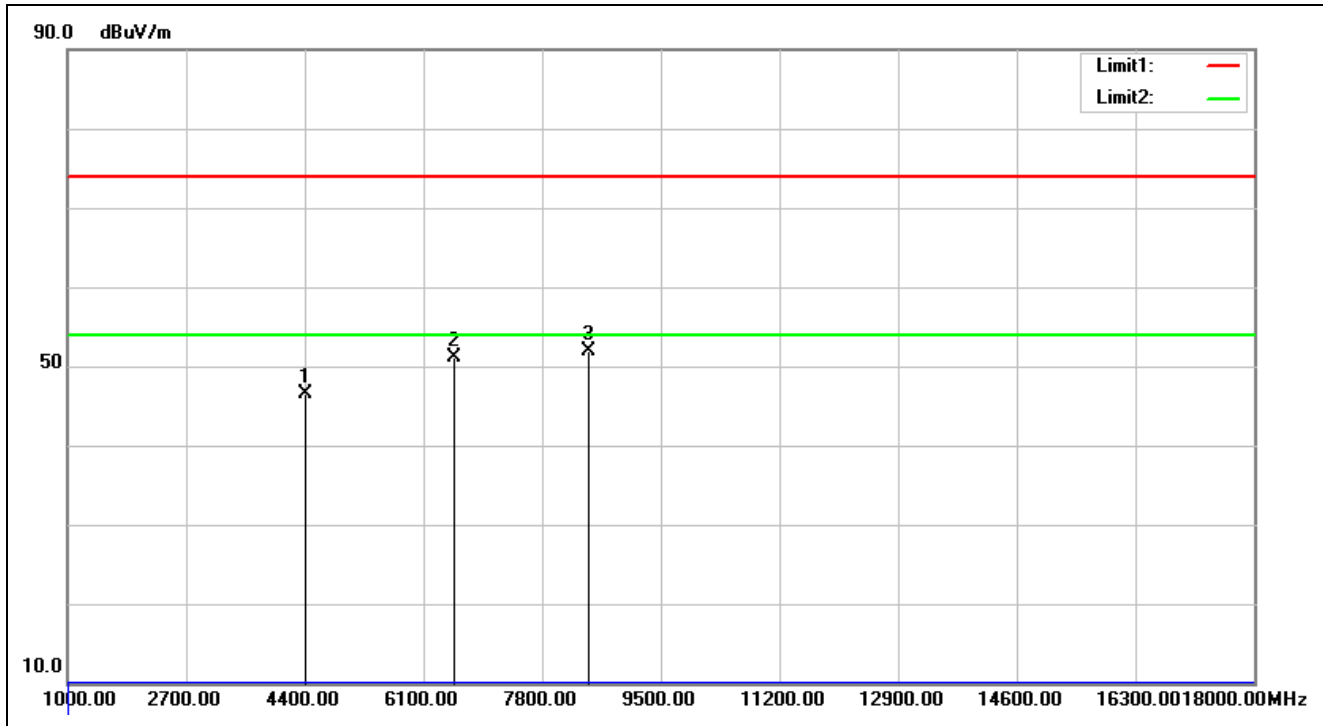
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:01:24
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	2802.000	-6.68	53.02	46.34	74.00	-27.66	peak	100	5	
2	4604.000	-2.77	49.93	47.16	74.00	-26.84	peak	100	190	
3	6559.000	5.92	44.90	50.82	74.00	-23.18	peak	100	207	



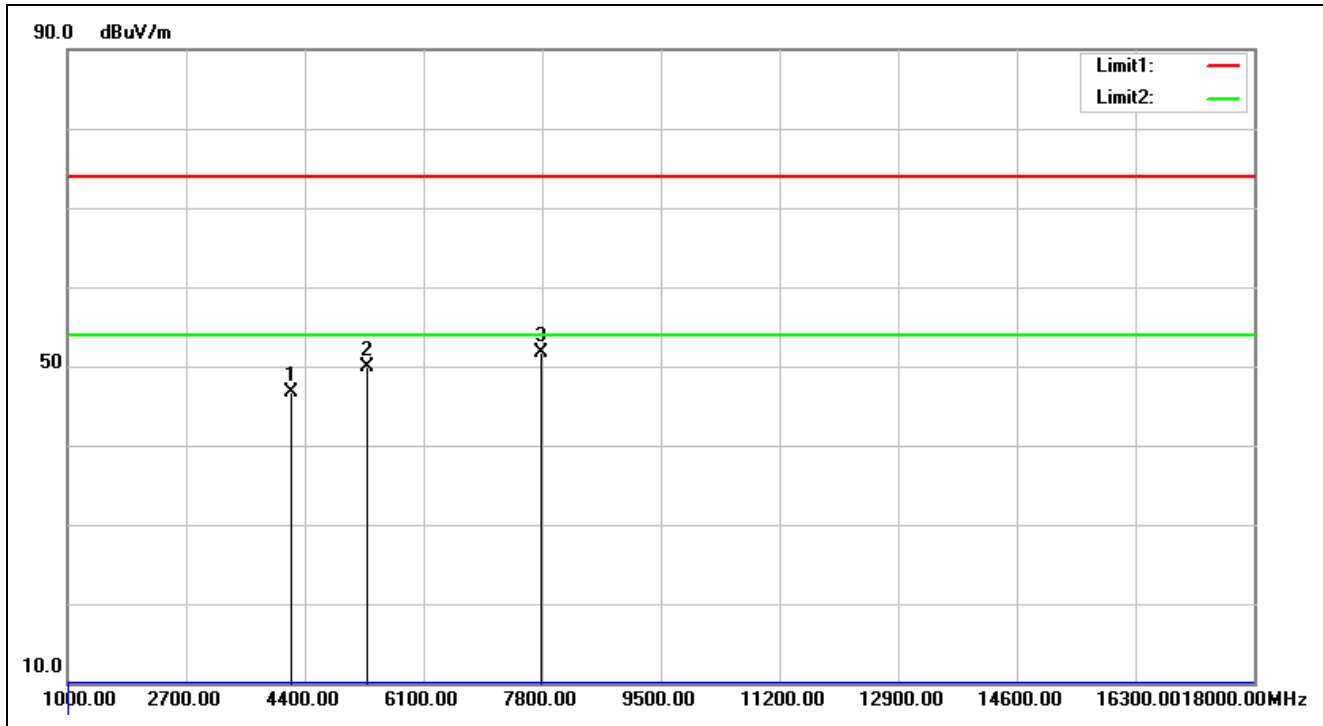
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:02:26
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3720.000	-5.35	51.82	46.47	74.00	-27.53	peak	100	172	
2	5199.000	-0.75	50.92	50.17	74.00	-23.83	peak	100	360	
3	6865.000	5.40	45.41	50.81	74.00	-23.19	peak	100	133	



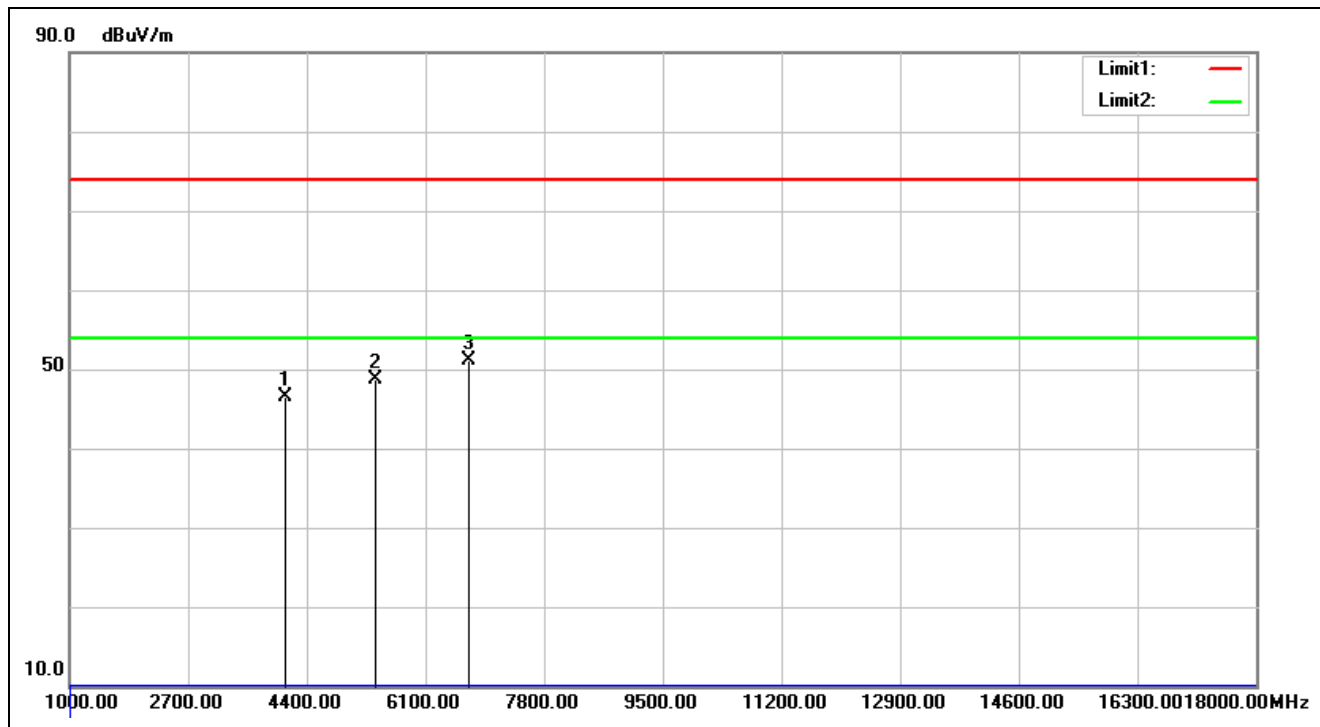
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:07:20
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	4400.000	-3.44	50.01	46.57	74.00	-27.43	peak	100	182	
2	6542.000	5.95	45.09	51.04	74.00	-22.96	peak	100	279	
3	8463.000	6.72	45.27	51.99	74.00	-22.01	peak	100	88	



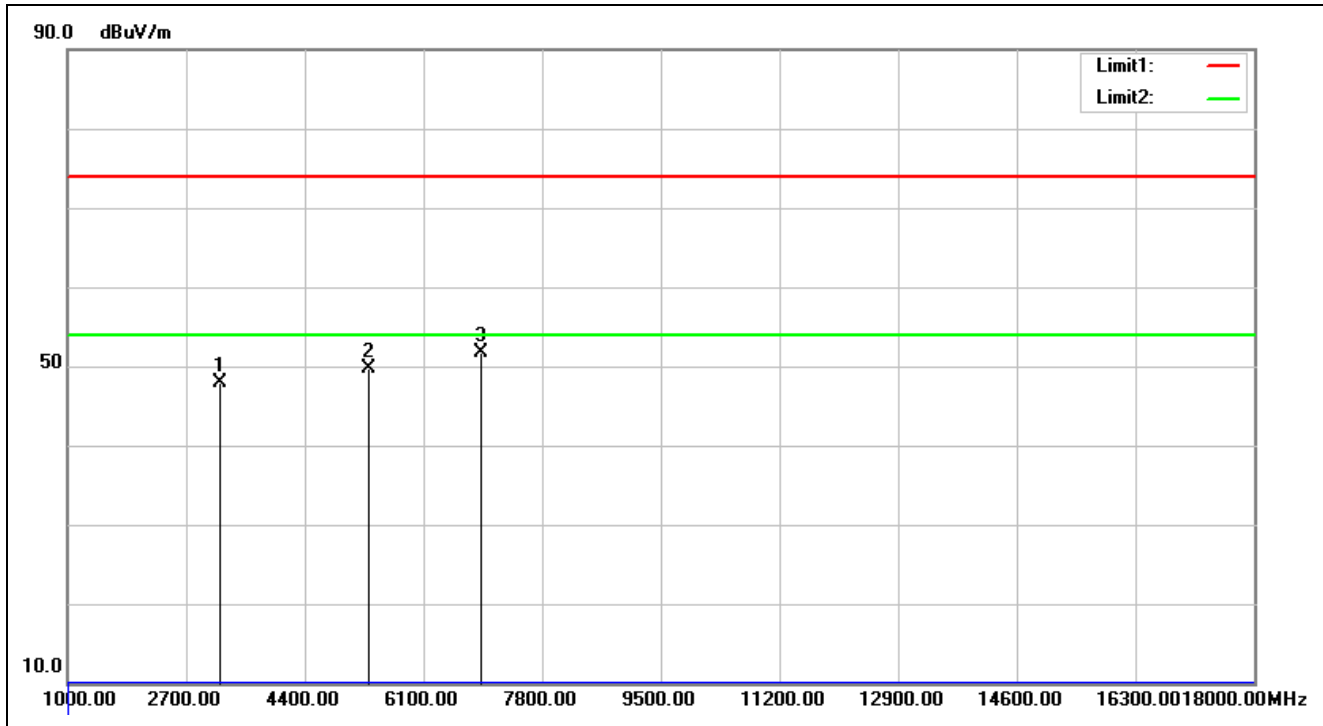
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:08:23
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	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	4196.000	-4.29	51.01	46.72	74.00	-27.28	peak	100	253	
2	5301.000	-0.21	50.10	49.89	74.00	-24.11	peak	100	297	
3	7783.000	6.59	45.02	51.61	74.00	-22.39	peak	100	195	



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:09:53
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4094.000	-4.70	51.12	46.42	74.00	-27.58	peak	100	11	
2	5386.000	0.24	48.53	48.77	74.00	-25.23	peak	100	262	
3	6729.000	5.64	45.54	51.18	74.00	-22.82	peak	100	180	



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:10:55
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3176.000	-5.88	53.80	47.92	74.00	-26.08	peak	100	45	
2	5318.000	-0.12	49.81	49.69	74.00	-24.31	peak	100	0	
3	6916.000	5.32	46.33	51.65	74.00	-22.35	peak	100	278	

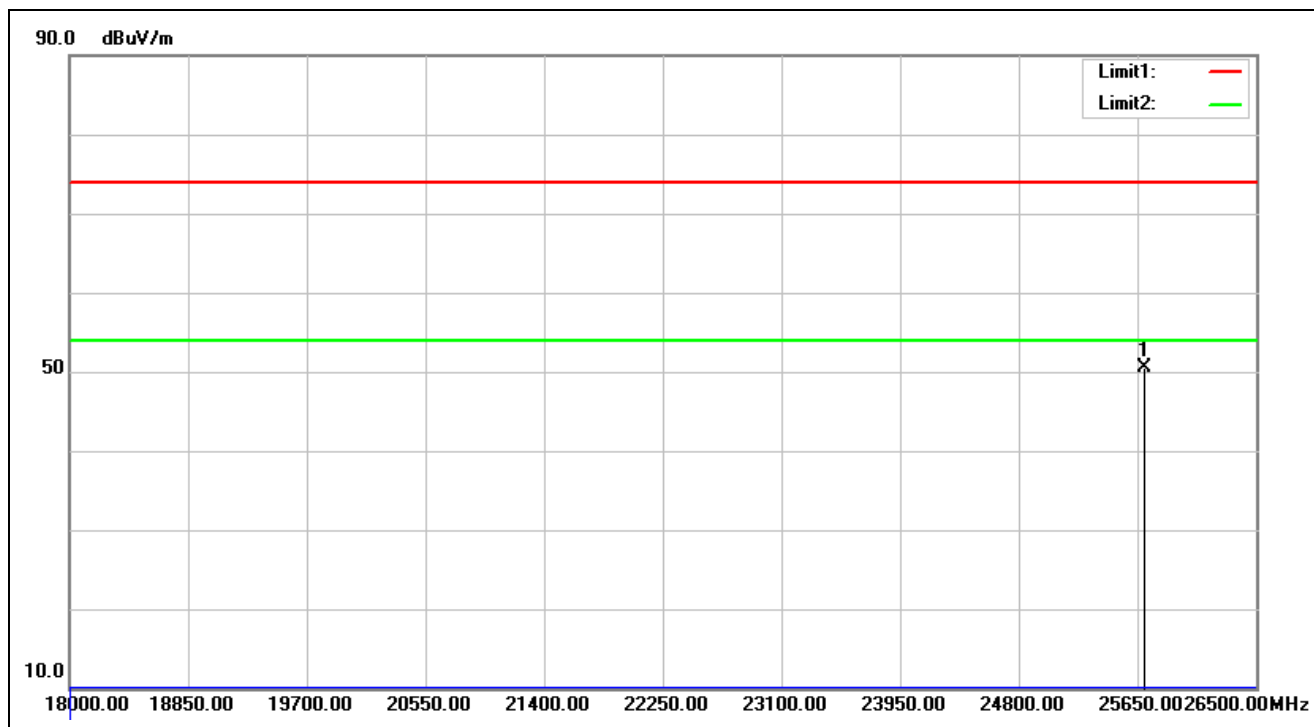
Spurious Emissions, RX Mode, 18-26G



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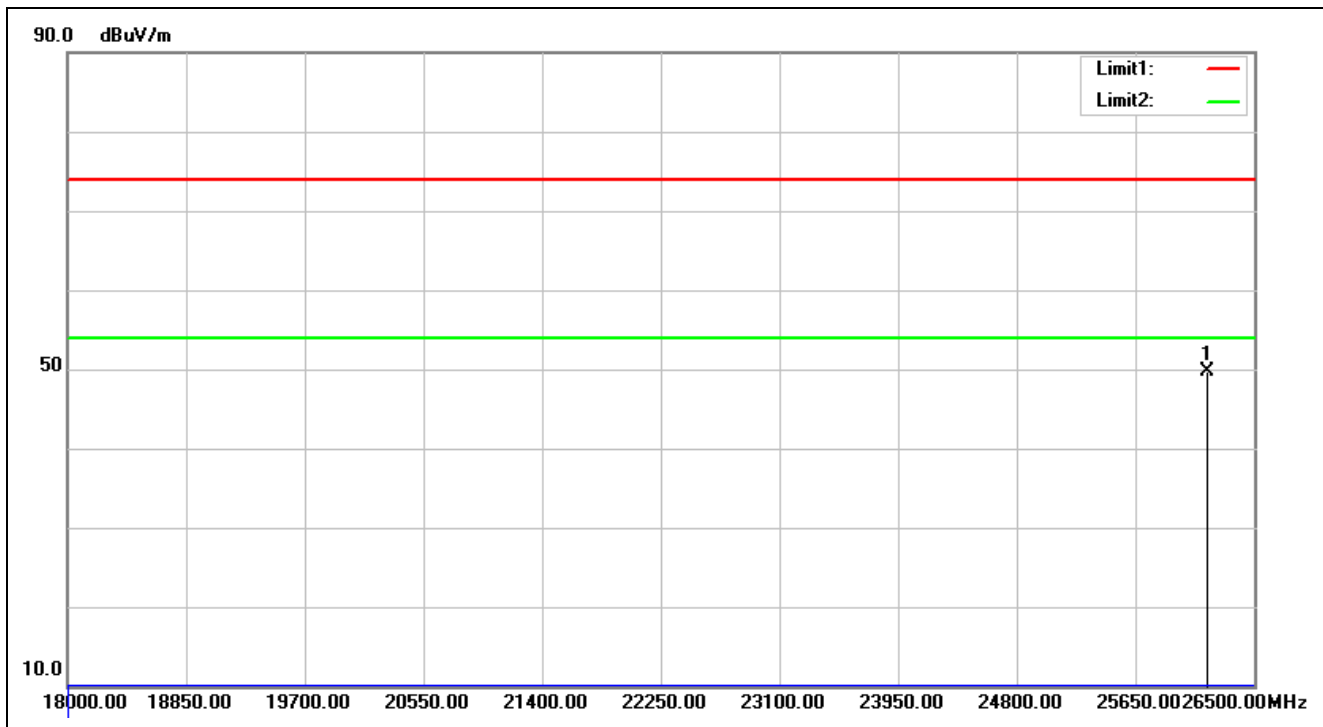
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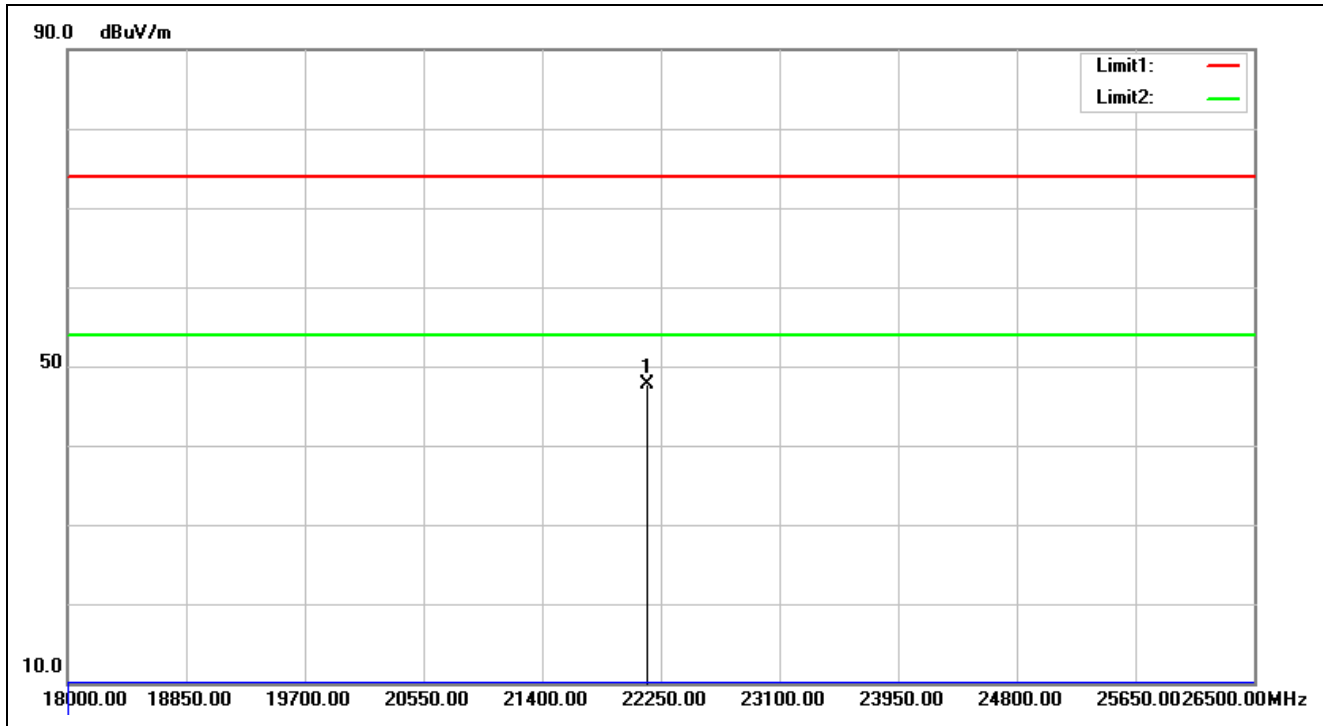
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:28:24
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25701.000	32.06	18.38	50.44	74.00	-23.56	peak			



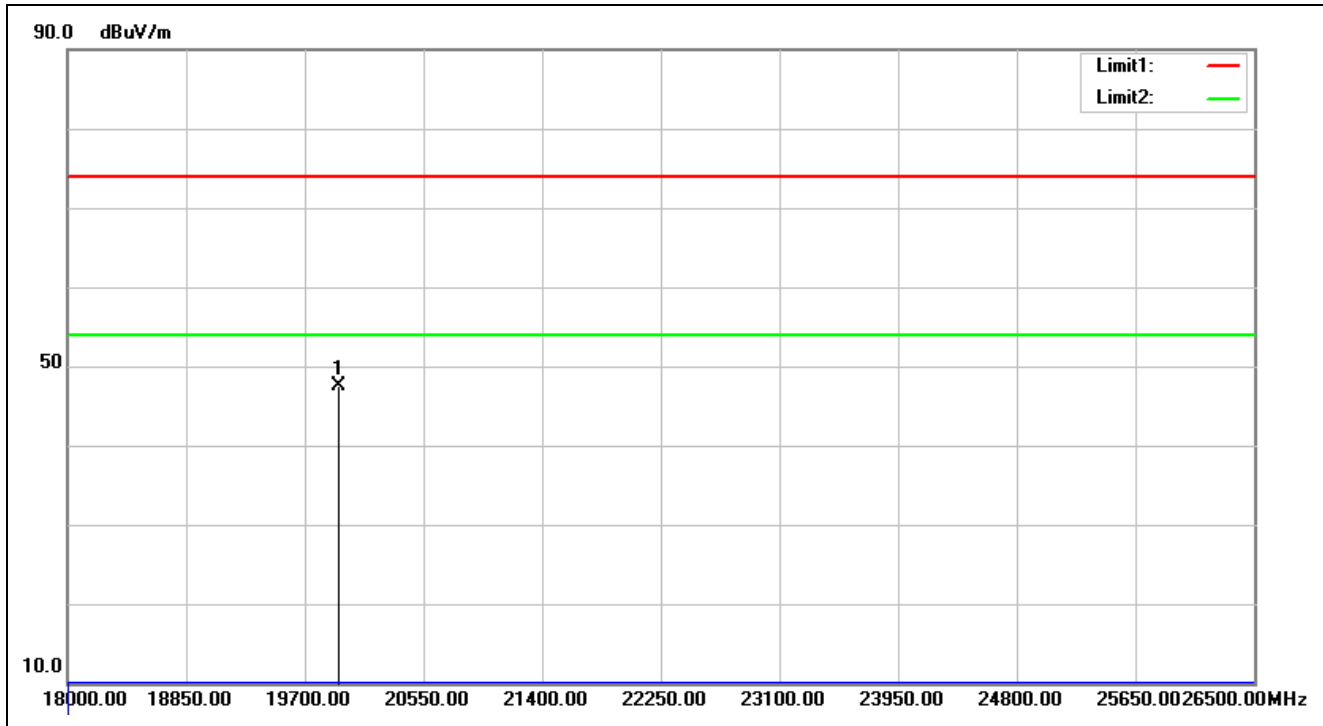
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:28:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	26168.500	32.12	17.51	49.63	74.00	-24.37	peak			



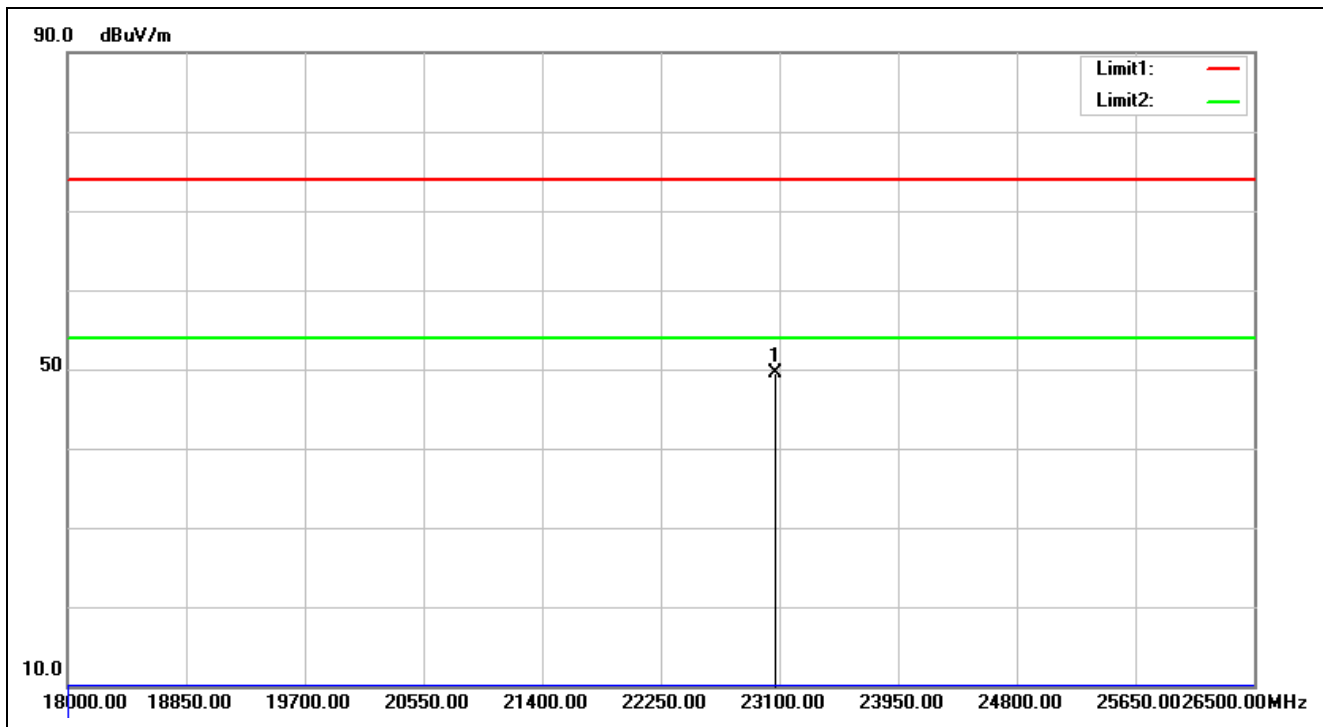
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:29:34
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	22148.000	29.23	18.44	47.67	74.00	-26.33	peak			



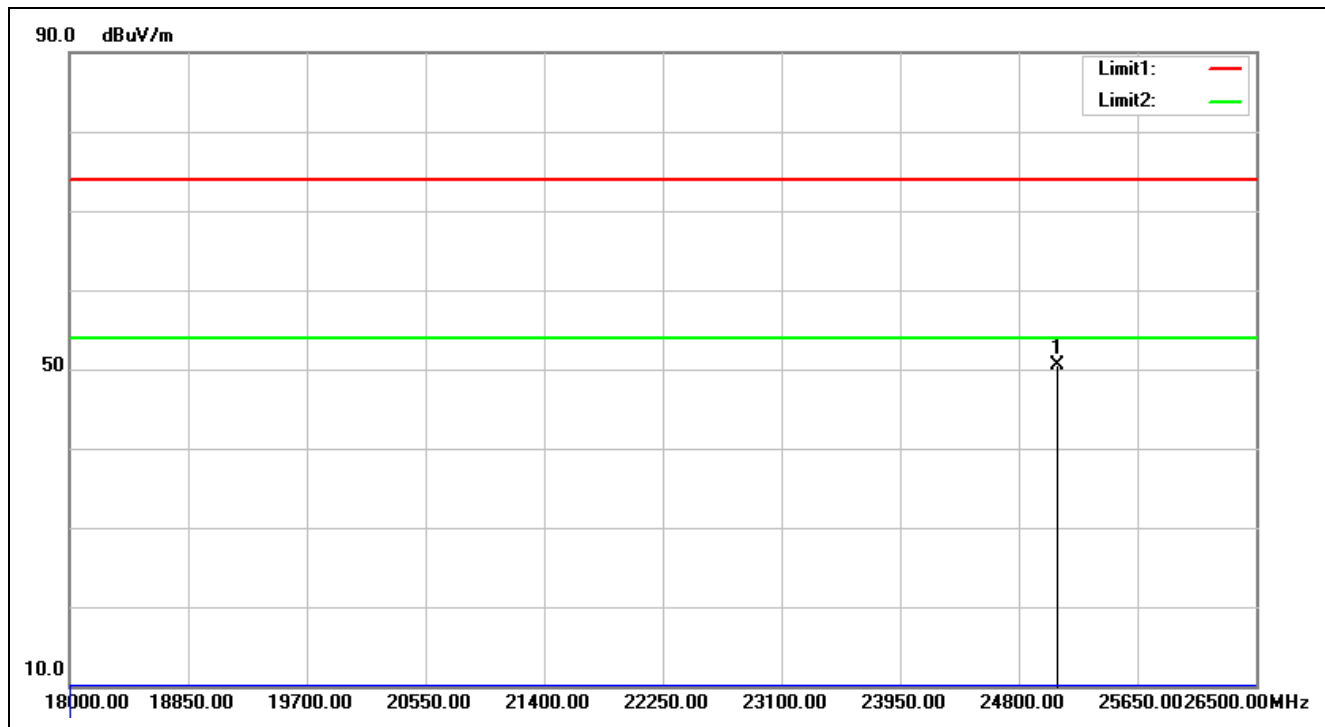
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:29:40
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	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	19946.500	29.57	18.02	47.59	74.00	-26.41	peak			



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:29:57
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	23066.000	30.43	19.05	49.48	74.00	-24.52	peak			



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:30:05
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	25080.500	31.34	19.21	50.55	74.00	-23.45	peak			

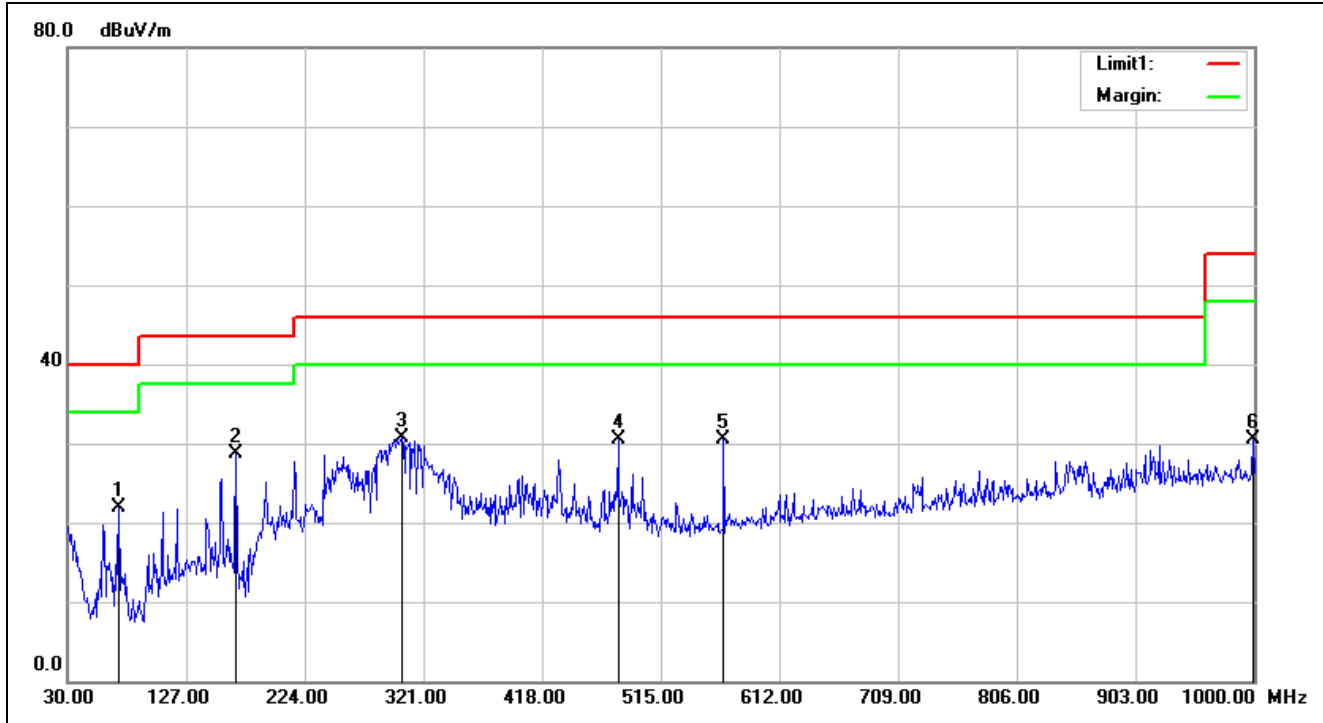
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

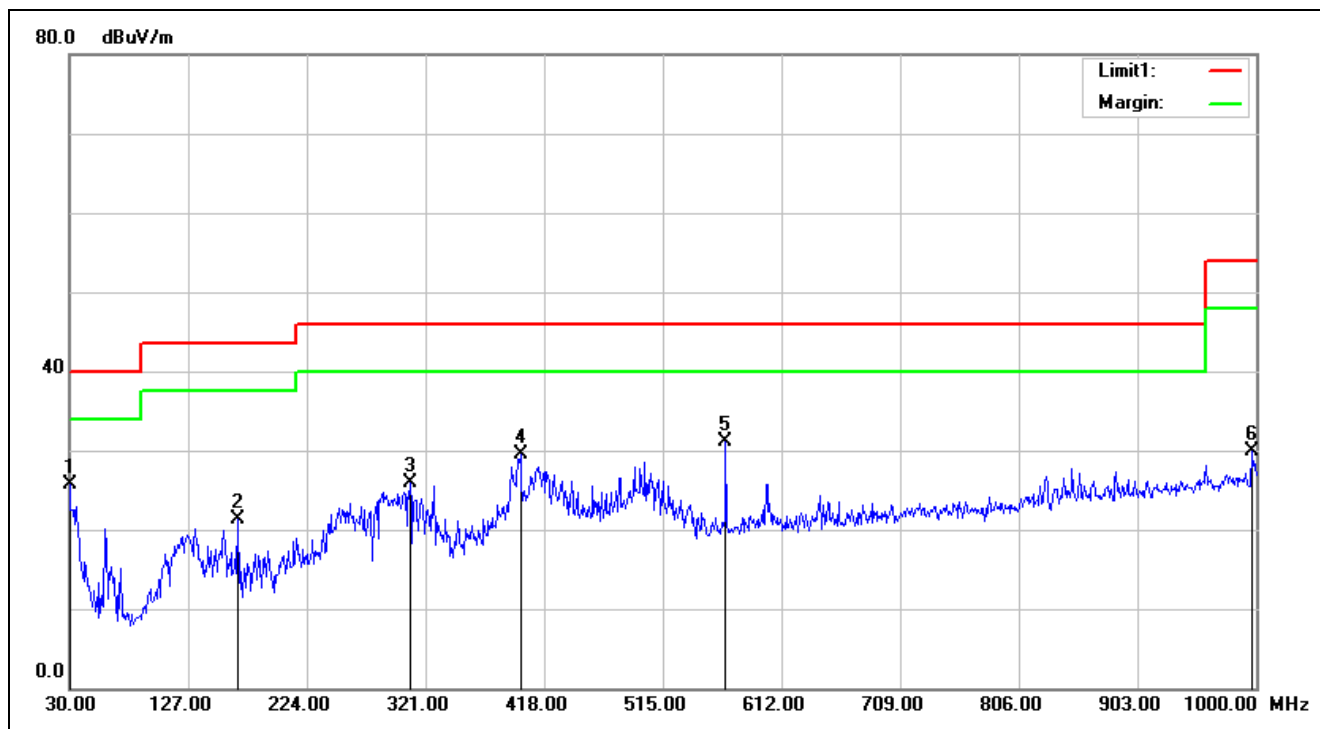
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 15:02:37
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	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	71.7099	-18.64	40.59	21.95	40.00	-18.05	QP	100	357	
2	167.7400	-14.60	43.37	28.77	43.50	-14.73	QP	100	38	
3	303.5400	-10.40	41.02	30.62	46.00	-15.38	QP	100	272	
4	480.0800	-7.59	38.04	30.45	46.00	-15.55	QP	100	210	
5	566.4100	-6.66	37.14	30.48	46.00	-15.52	QP	100	216	
6	999.0300	0.00	30.48	30.48	54.00	-23.52	QP	100	213	

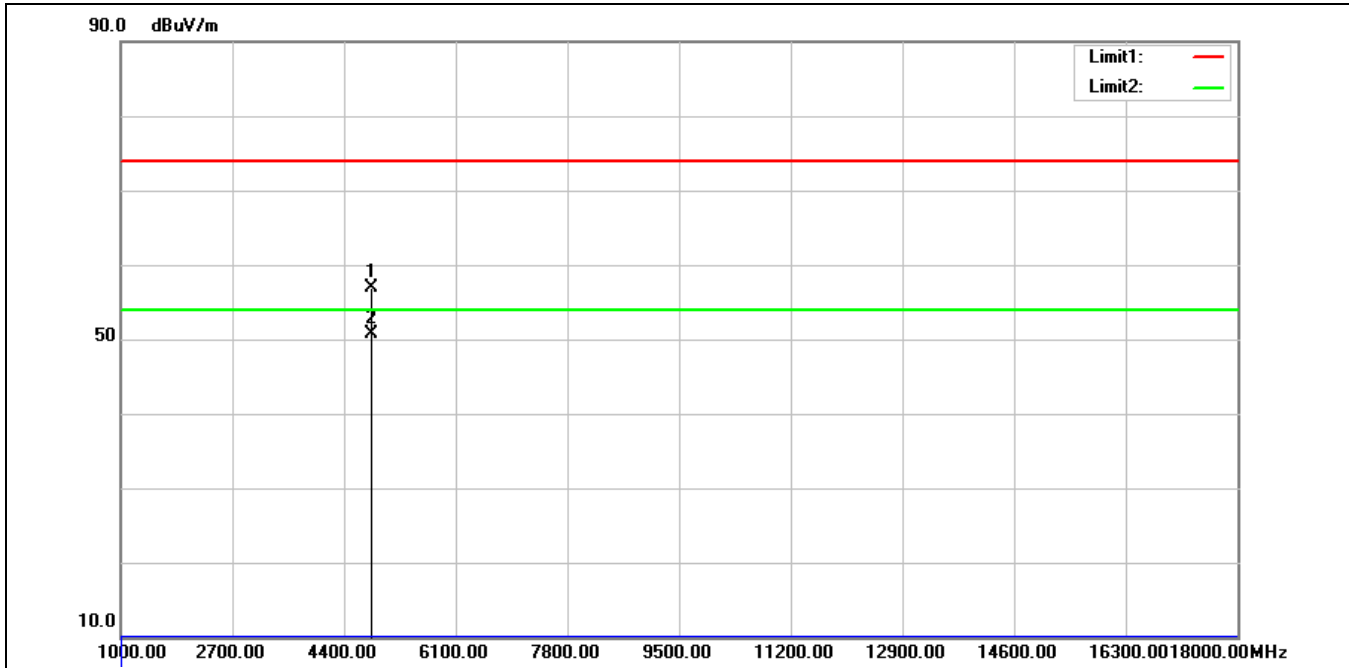
Spurious Emissions, RX Mode, 30M-1G



Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 15:03:40
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	1DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-5.85	31.61	25.76	40.00	-14.24	QP	100	203	
2	167.7400	-14.60	35.95	21.35	43.50	-22.15	QP	100	179	
3	308.3900	-10.30	36.22	25.92	46.00	-20.08	QP	100	214	
4	398.6000	-8.70	38.23	29.53	46.00	-16.47	QP	100	198	
5	566.4100	-6.66	37.77	31.11	46.00	-14.89	QP	100	136	
6	996.1200	-0.03	29.89	29.86	54.00	-24.14	QP	100	314	

Spurious Emissions, Second source pre-scan data



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

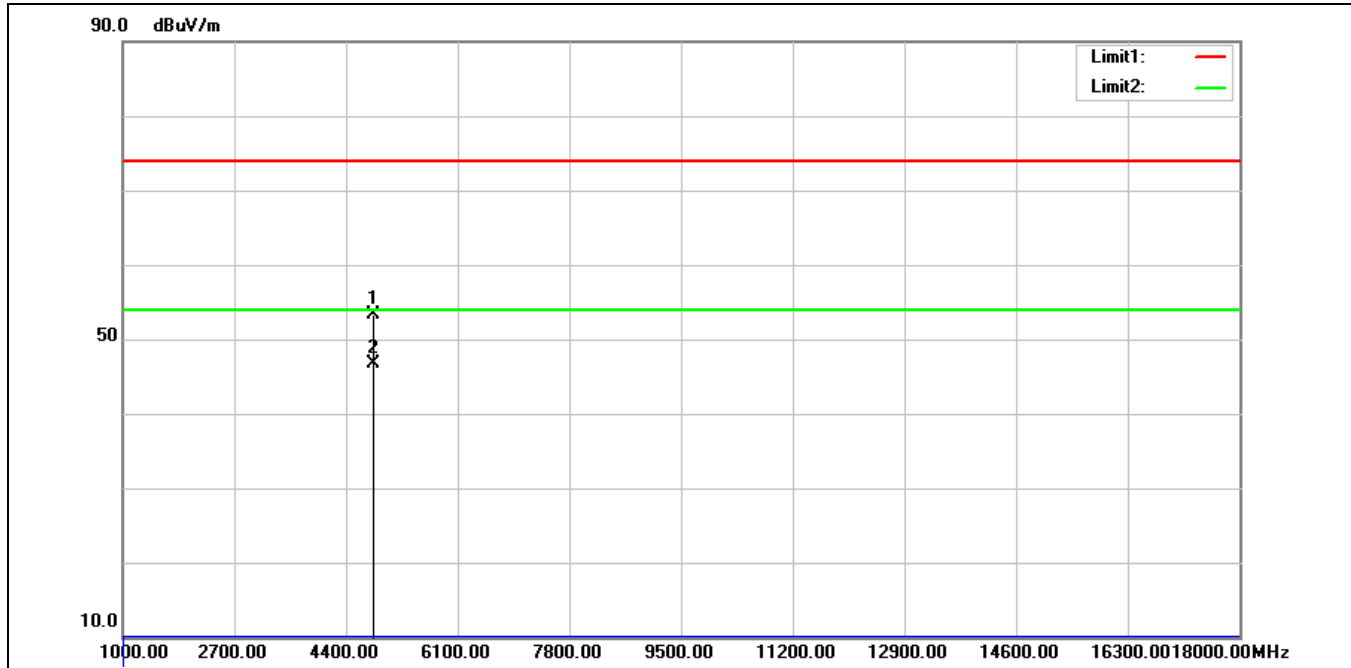
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.4

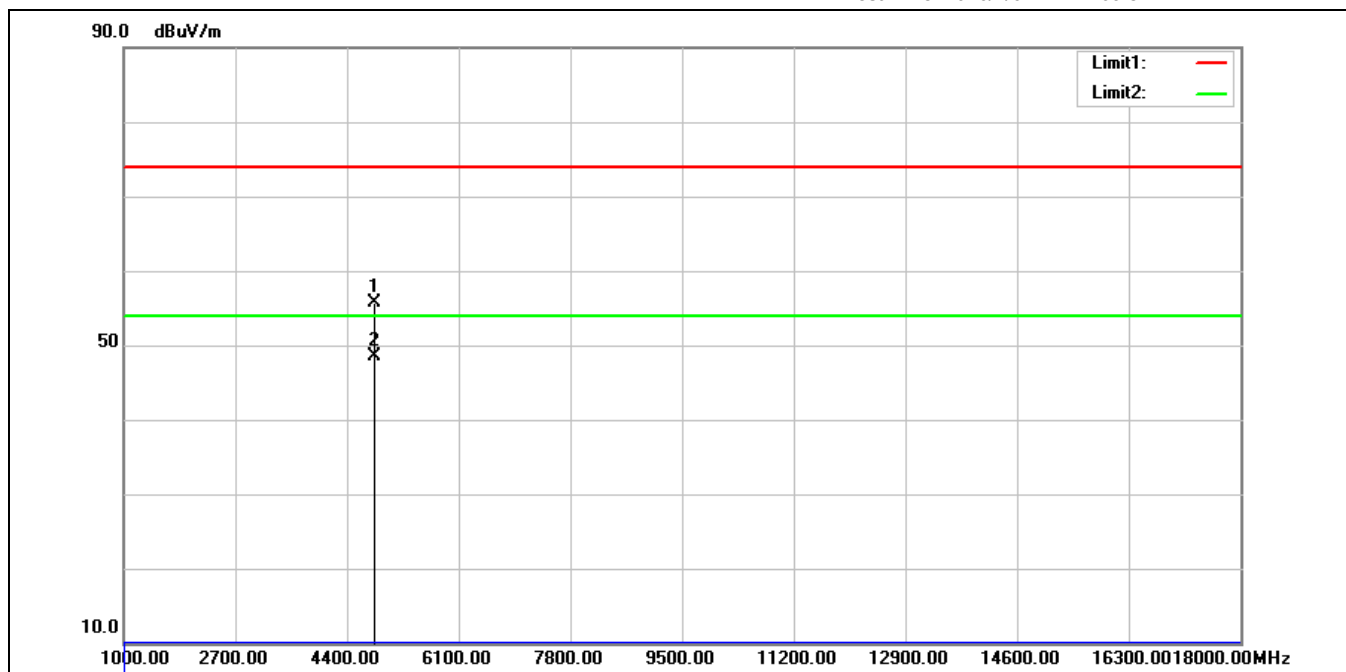
高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	59.27	56.99	74.00	-17.01	peak	100	359	P	
2	4804.000	-2.28	52.89	50.61	54.00	-3.39	AVG	167	359	P	



Service No.: 20160106(BM64)		Test Distance: 3m	
Test Standard: FCC Above 1G PEAK		Ant. Polarization: Vertical	
Test item: Radiation Emission		Temp.(°C)/Hum.(%): 22.1(°C) / 64 %	
Applicant: Microchip		Test Rating: DC 5V	
Product: BT module		Test Engineer: Sam Su	
Model No.: BM64SPKabcC1 ClassI			
Test Mode: 1DH5-2402-TX			
Remark: Sample No.4			
高創/嘉碩			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	55.55	53.27	74.00	-20.73	peak	100	187	P	
2	4804.000	-2.28	48.92	46.64	54.00	-7.36	AVG	100	187	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

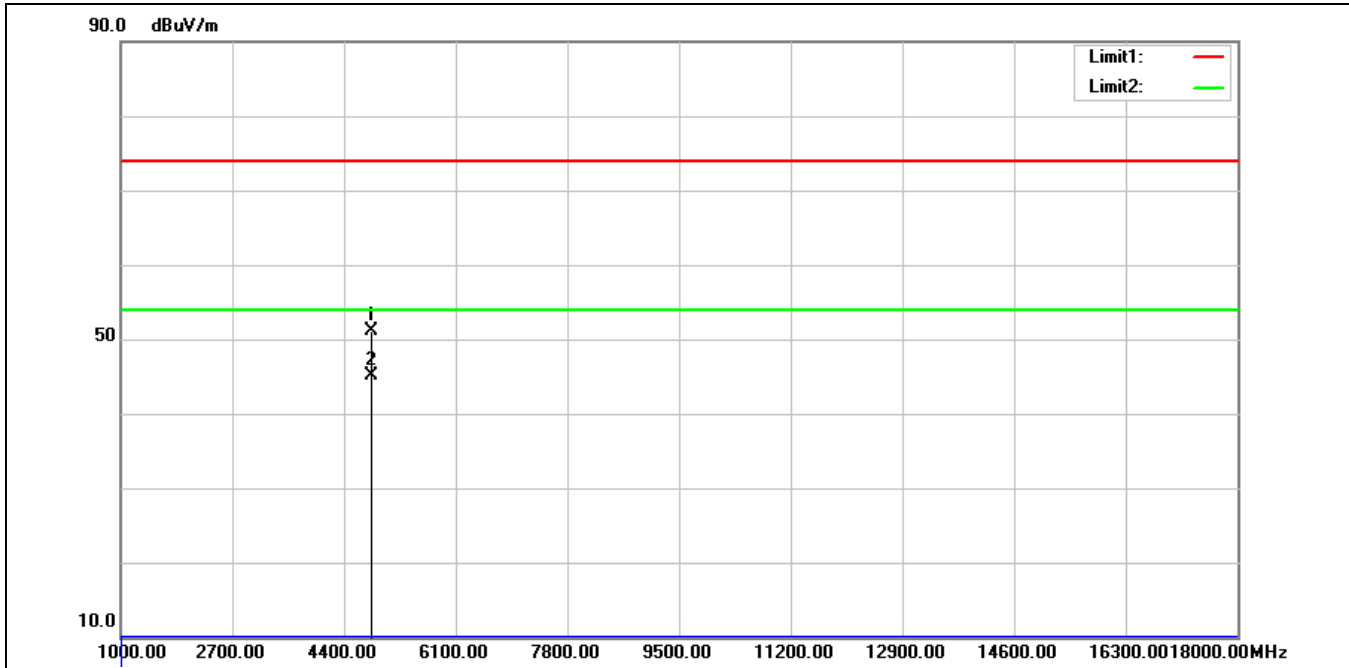
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.3

高創/希華

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	57.96	55.68	74.00	-18.32	peak	100	275	P	
2	4804.000	-2.28	50.82	48.54	54.00	-5.46	AVG	180	275	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

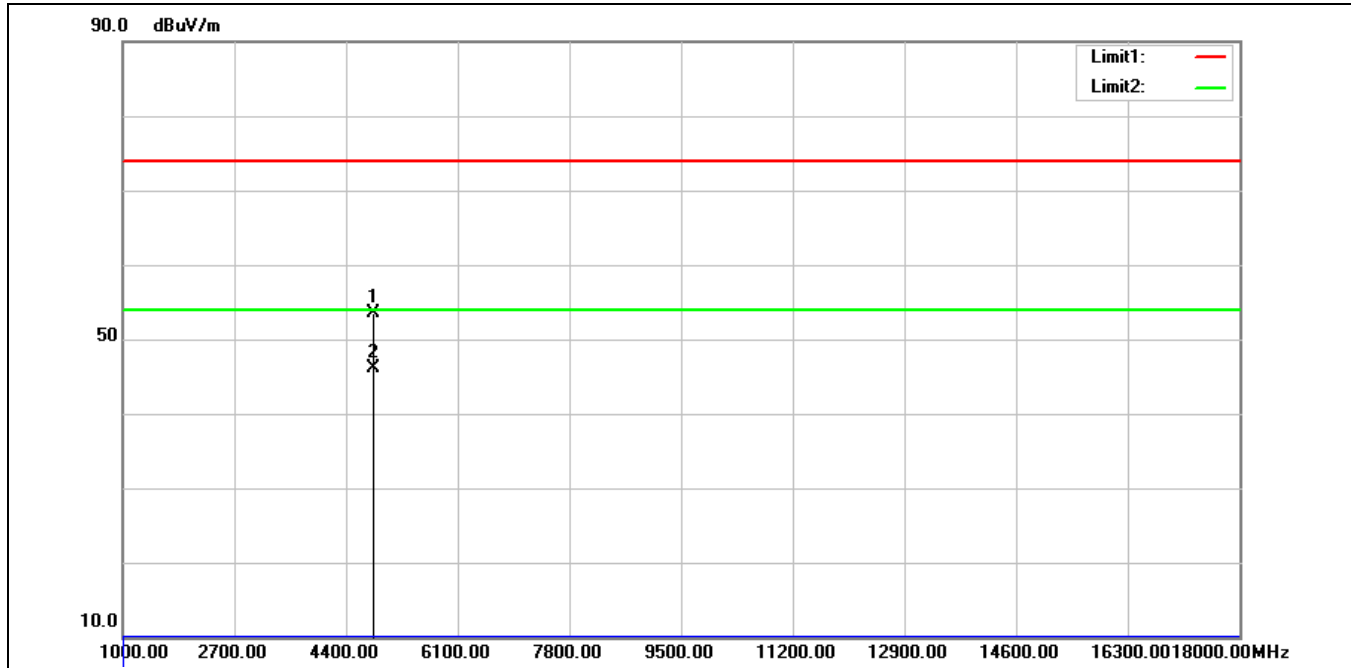
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.3

高創/希華

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	53.31	51.03	74.00	-22.97	peak	100	107	P	
2	4804.000	-2.28	47.31	45.03	54.00	-8.97	AVG	100	107	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

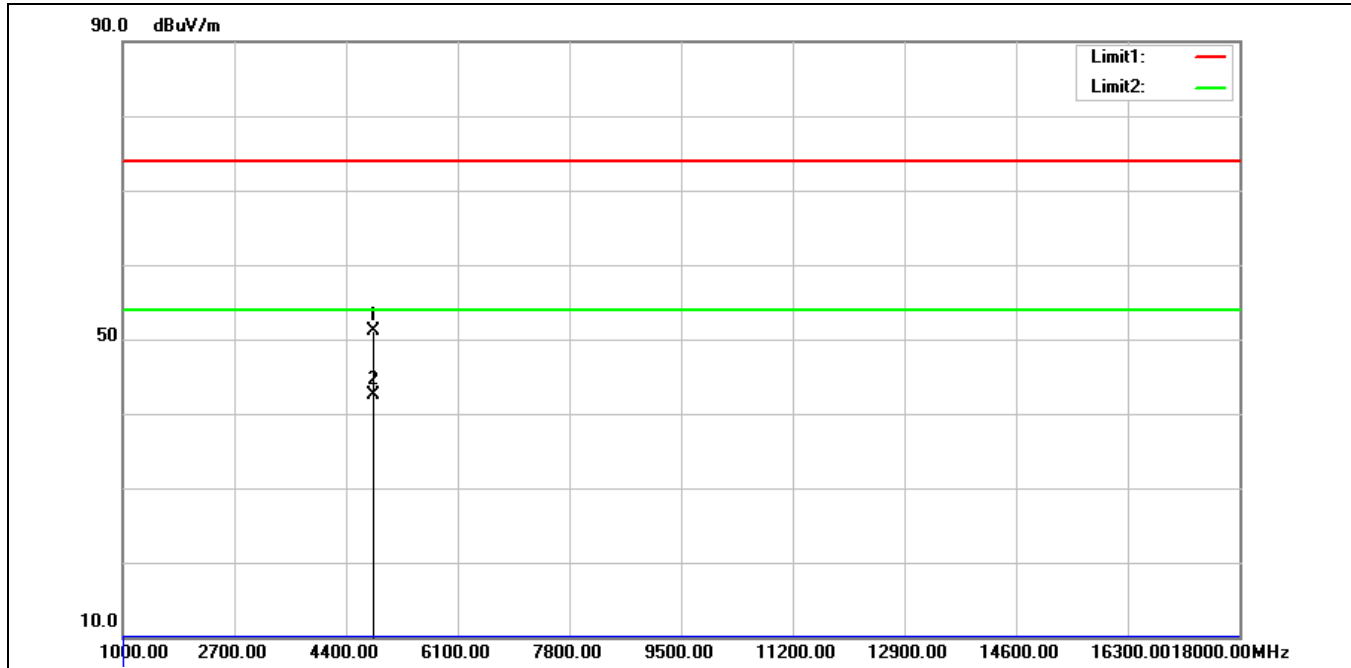
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.8

新丰/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	55.74	53.46	74.00	-20.54	peak	100	347	P	
2	4804.000	-2.28	48.45	46.17	54.00	-7.83	AVG	100	347	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

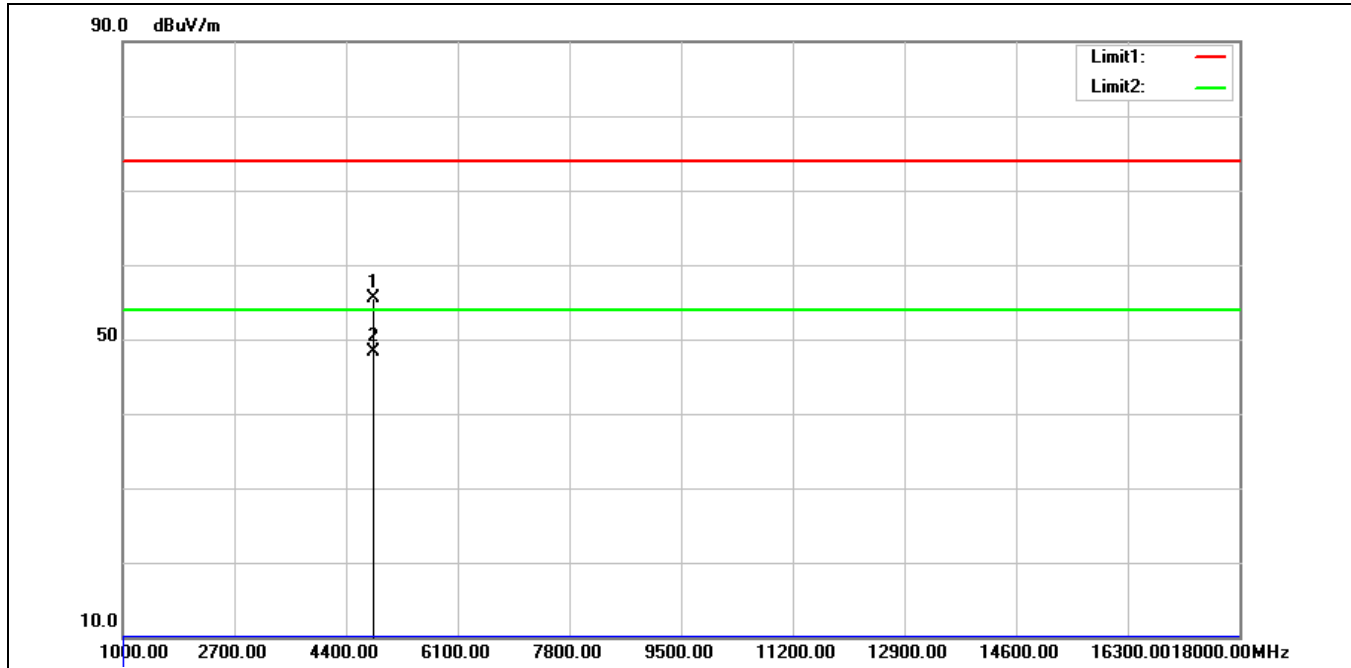
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.8

新丰/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	53.41	51.13	74.00	-22.87	peak	100	152	P	
2	4804.000	-2.28	44.87	42.59	54.00	-11.41	AVG	100	152	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

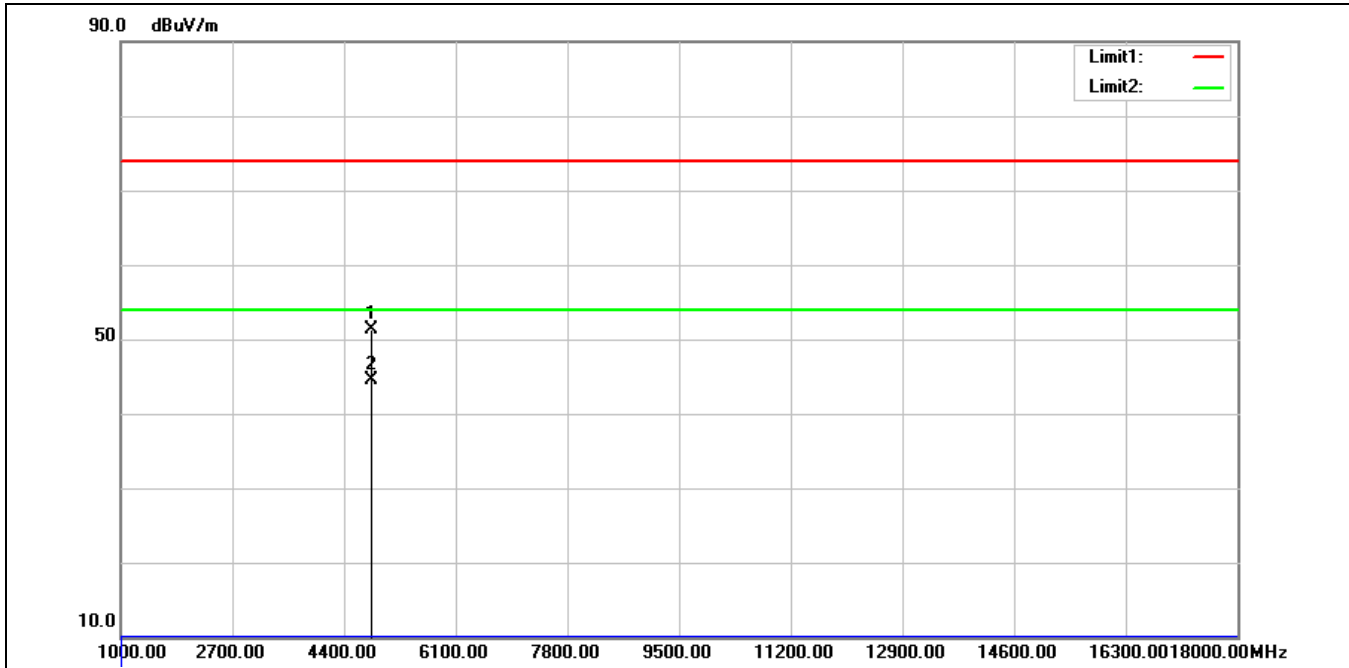
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.7

新聿/希華

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	57.71	55.43	74.00	-18.57	peak	100	309	P	
2	4804.000	-2.28	50.67	48.39	54.00	-5.61	AVG	210	309	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

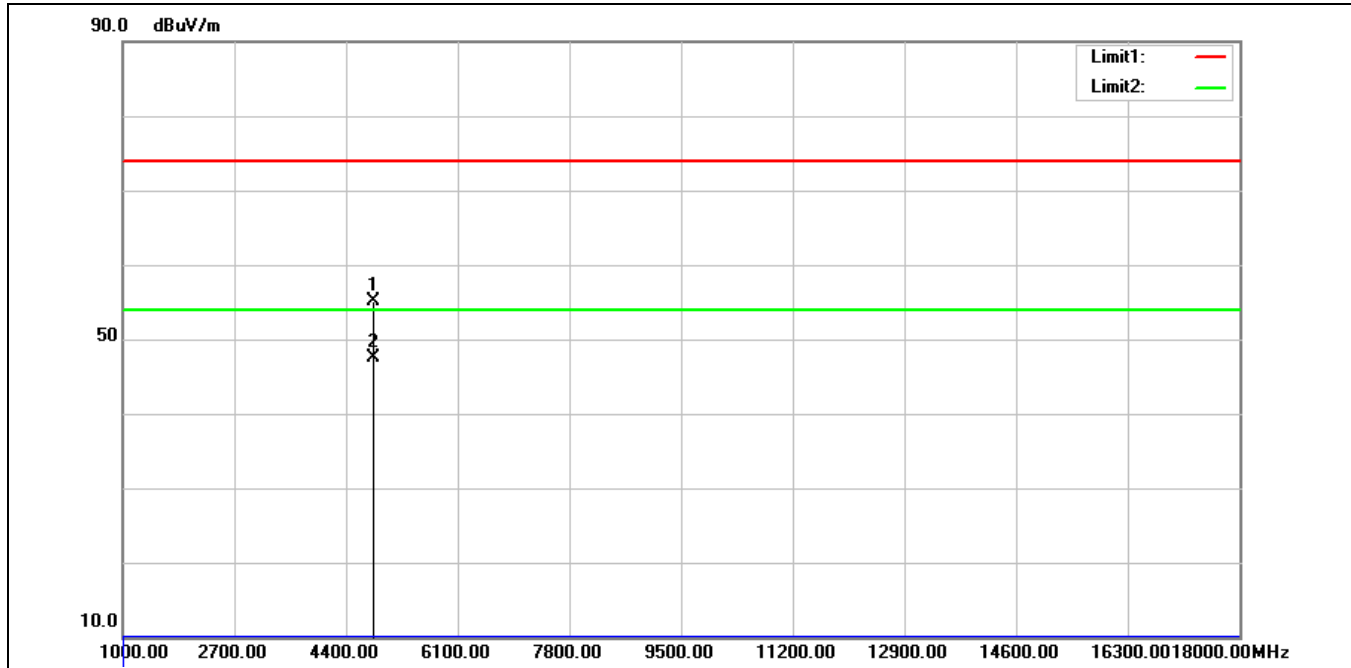
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.7

新聿/希華

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	53.52	51.24	74.00	-22.76	peak	100	142	P	
2	4804.000	-2.28	46.85	44.57	54.00	-9.43	AVG	100	142	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

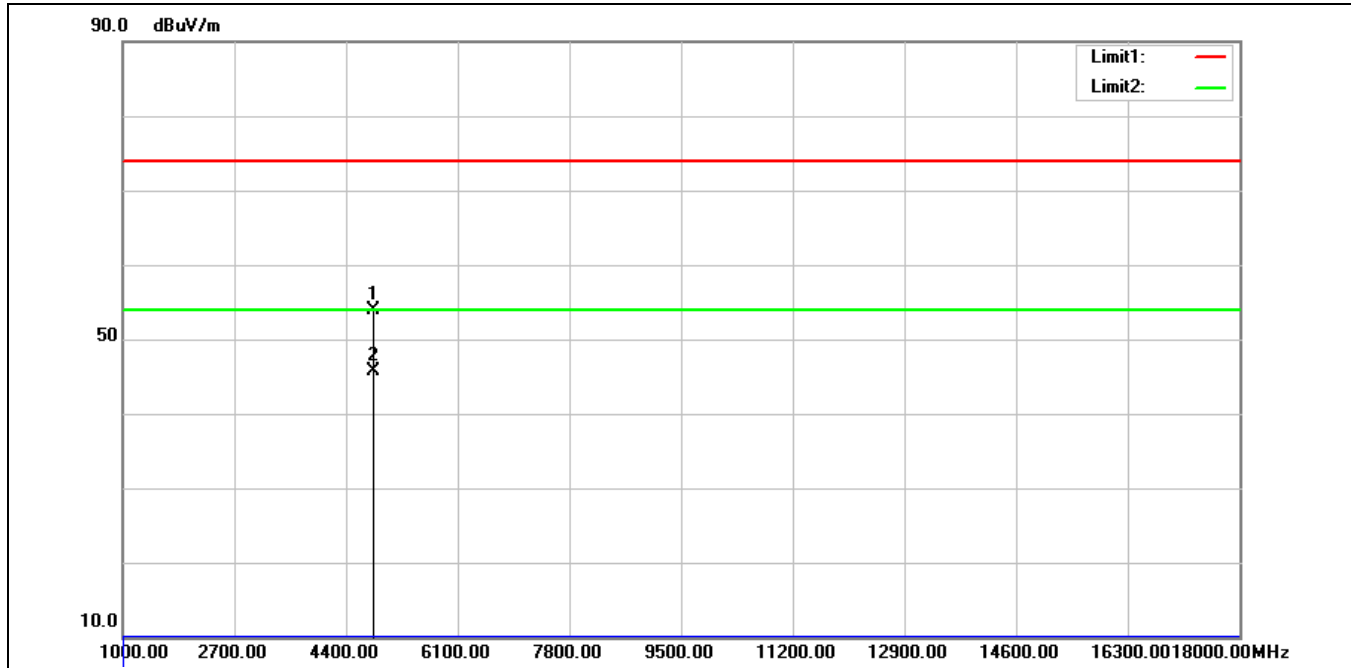
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	57.32	55.04	74.00	-18.96	peak	100	360	P	
2	4804.000	-2.28	49.81	47.53	54.00	-6.47	AVG	100	360	P	

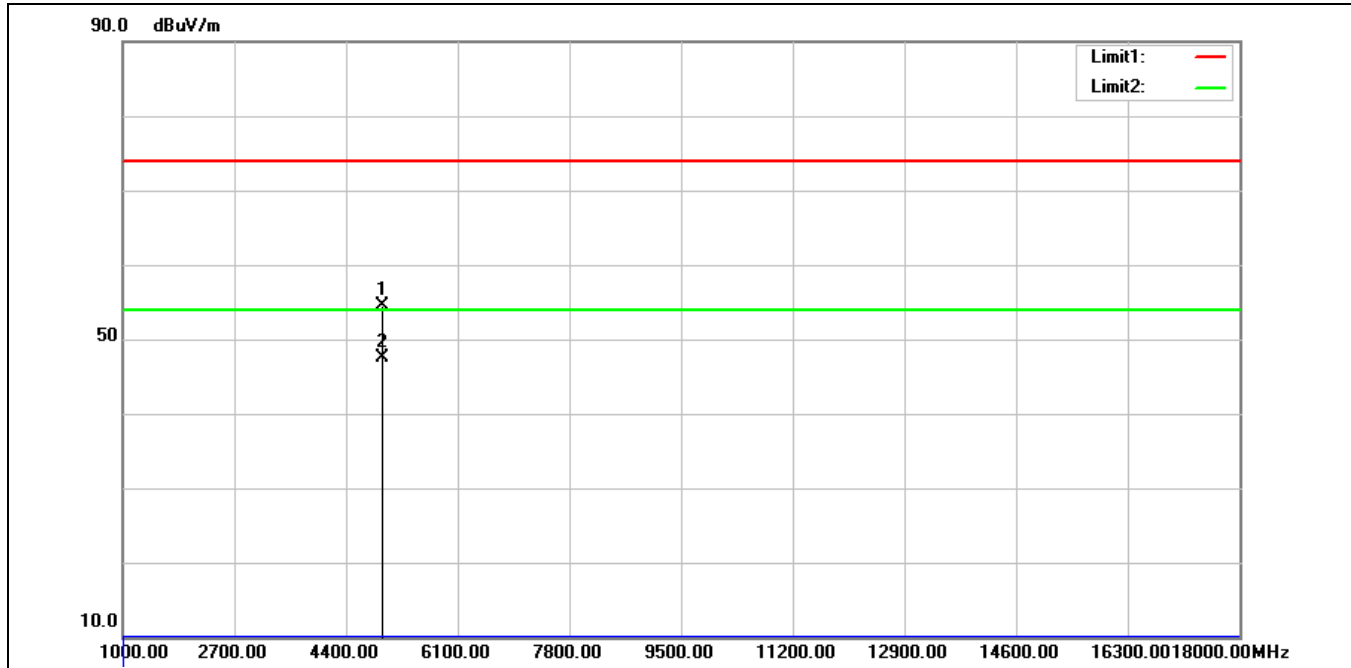


Service No.: 20160106(BM64)
 Test Standard: FCC Above 1G PEAK
 Test item: Radiation Emission
 Applicant: Microchip
 Product: BT module
 Model No.: BM64SPKabcC1 ClassI

Test Distance: 3m
 Ant. Polarization: Vertical
 Temp.(°C)/Hum.(%): 22.1(°C) / 64 %
 Test Rating: DC 5V
 Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX
 Remark: Sample No.4
 Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	56.11	53.83	74.00	-20.17	peak	100	164	P	
2	4804.000	-2.28	47.95	45.67	54.00	-8.33	AVG	100	164	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

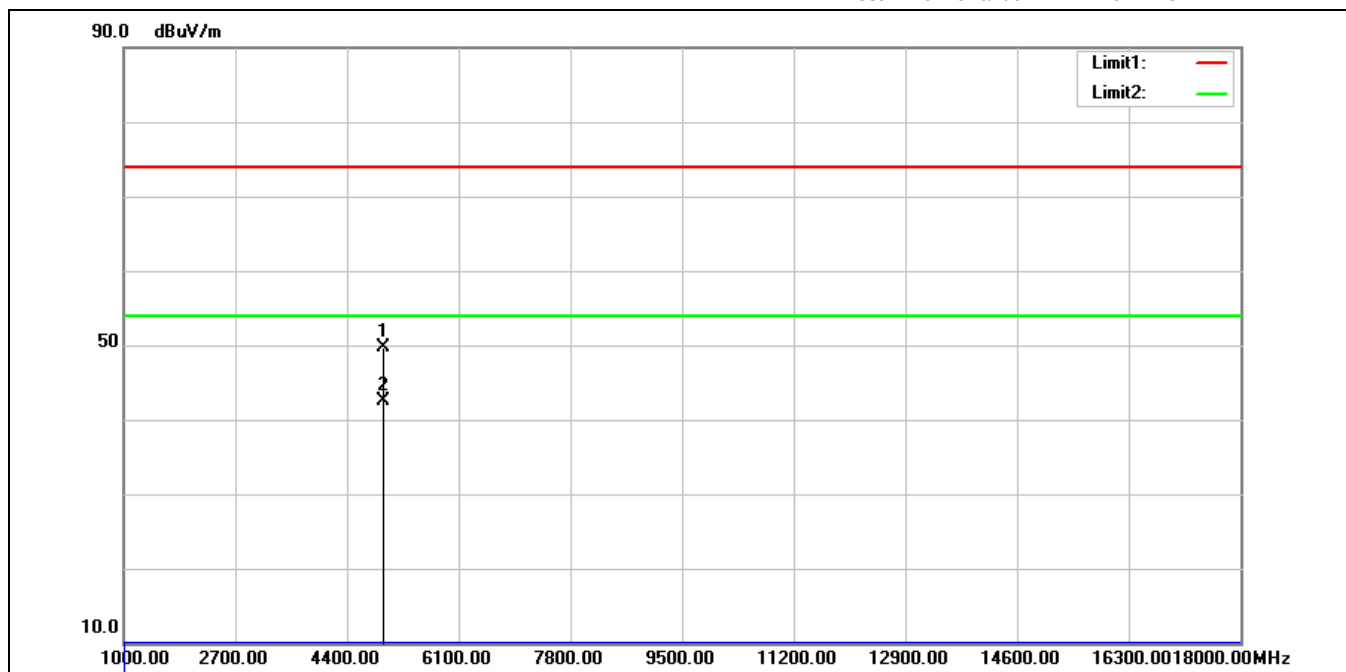
Test Engineer: Sam Su

Test Mode: 1DH5-2480-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4960.000	-1.91	56.41	54.50	74.00	-19.50	peak	100	347	P	
2	4960.000	-1.91	49.41	47.50	54.00	-6.50	AVG	100	347	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

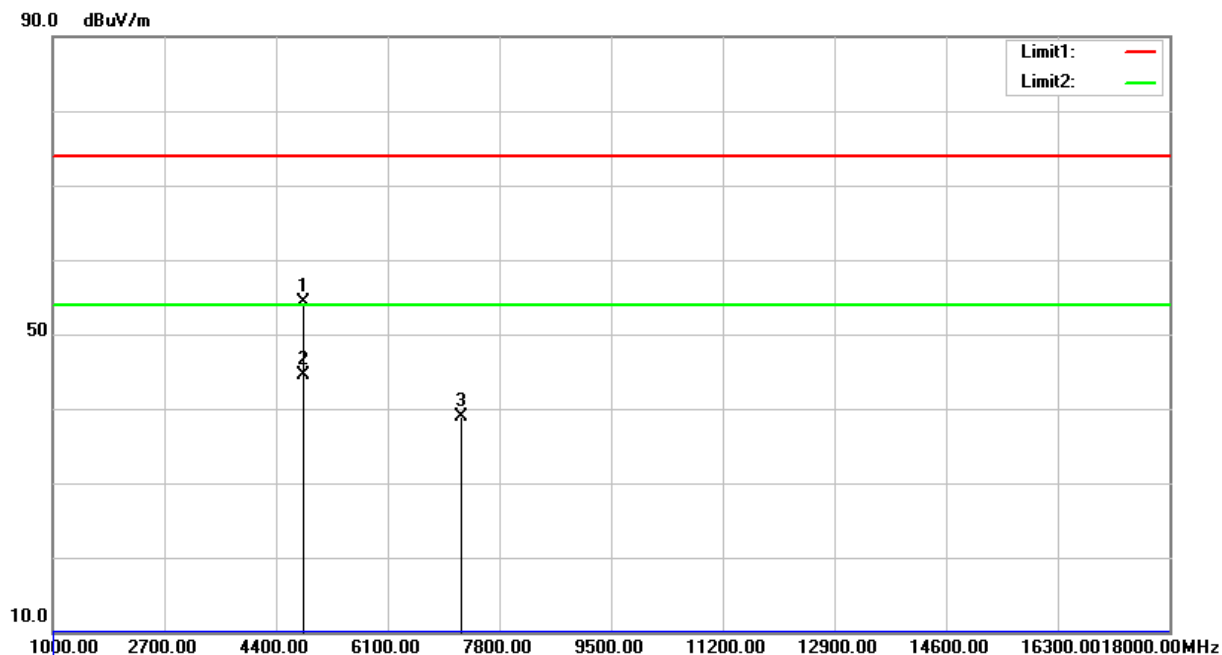
Test Engineer: Sam Su

Test Mode: 1DH5-2480-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4960.000	-1.91	51.69	49.78	74.00	-24.22	peak	100	140	P	
2	4960.000	-1.91	44.41	42.50	54.00	-11.50	AVG	100	140	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

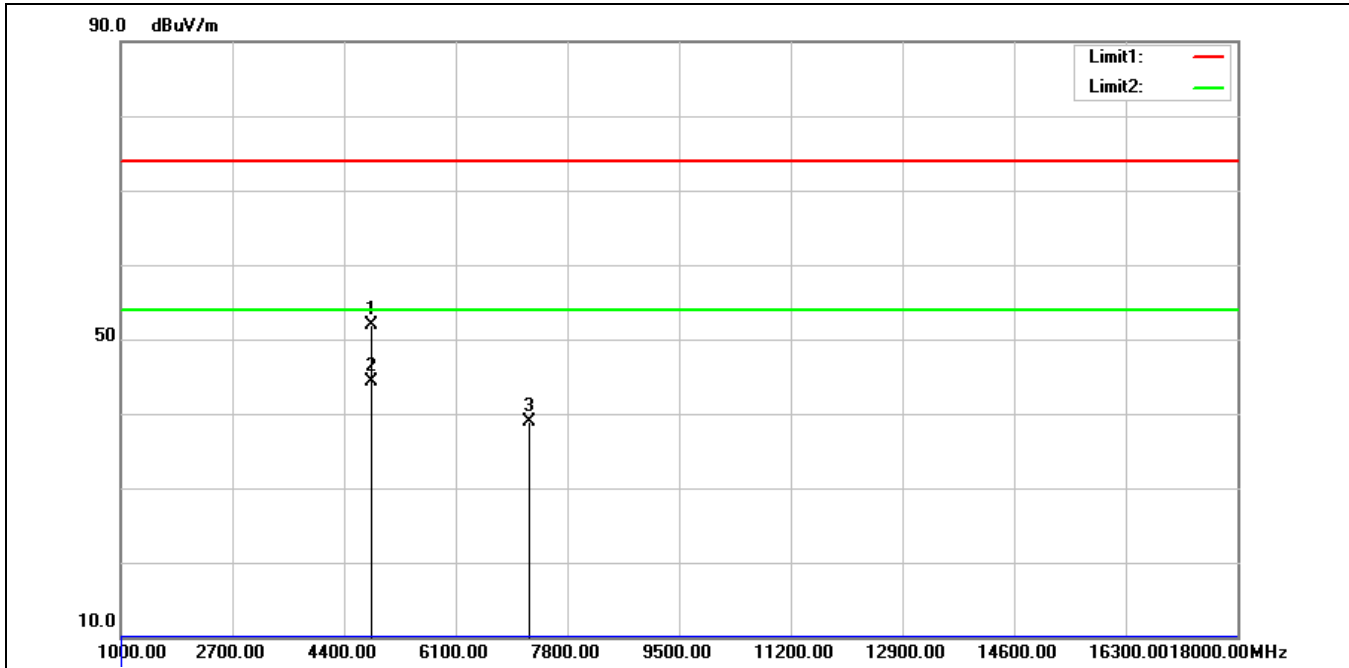
Test Engineer: Sam Su

Test Mode: 3DH5-2402-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	56.51	54.23	74.00	-19.77	peak	100	360	P	
2	4804.000	-2.28	46.69	44.41	54.00	-9.59	AVG	100	360	P	
3	7206.000	5.77	33.12	38.89	54.00	-15.11	AVG		0	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

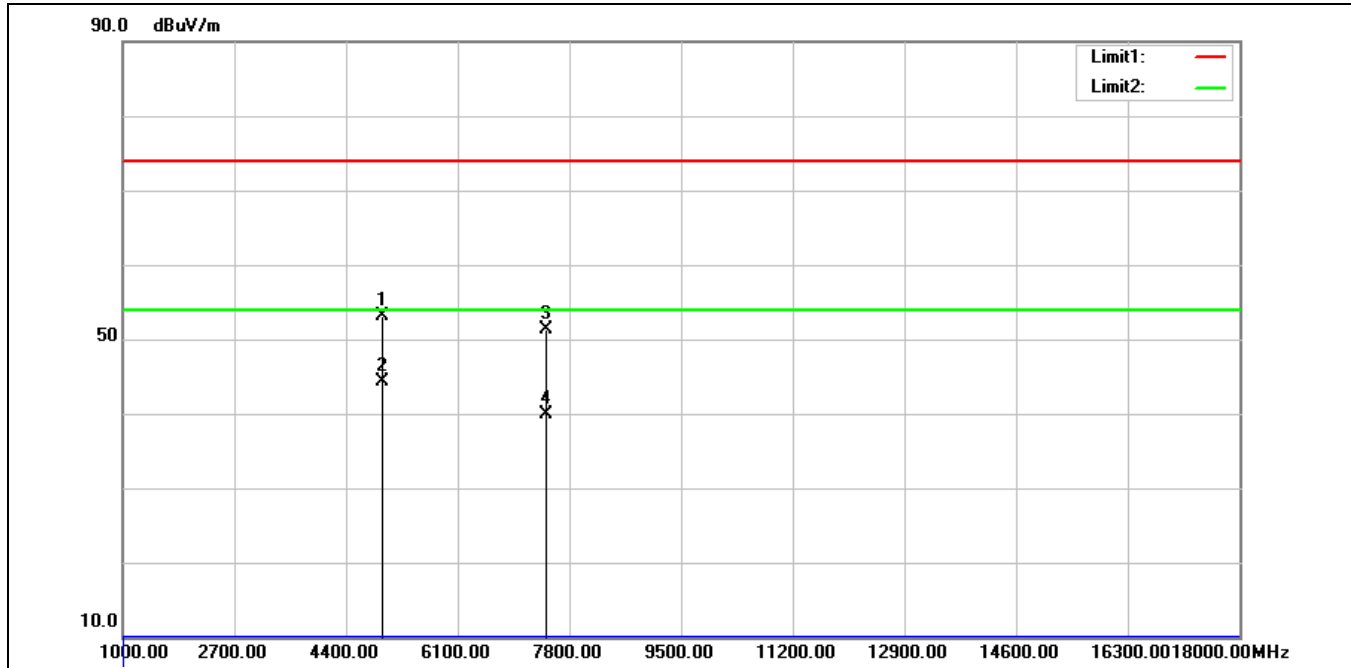
Test Engineer: Sam Su

Test Mode: 3DH5-2402-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	54.20	51.92	74.00	-22.08	peak	100	129	P	
2	4804.000	-2.28	46.56	44.28	54.00	-9.72	AVG	100	129	P	
3	7206.000	5.77	33.16	38.93	54.00	-15.07	AVG			P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

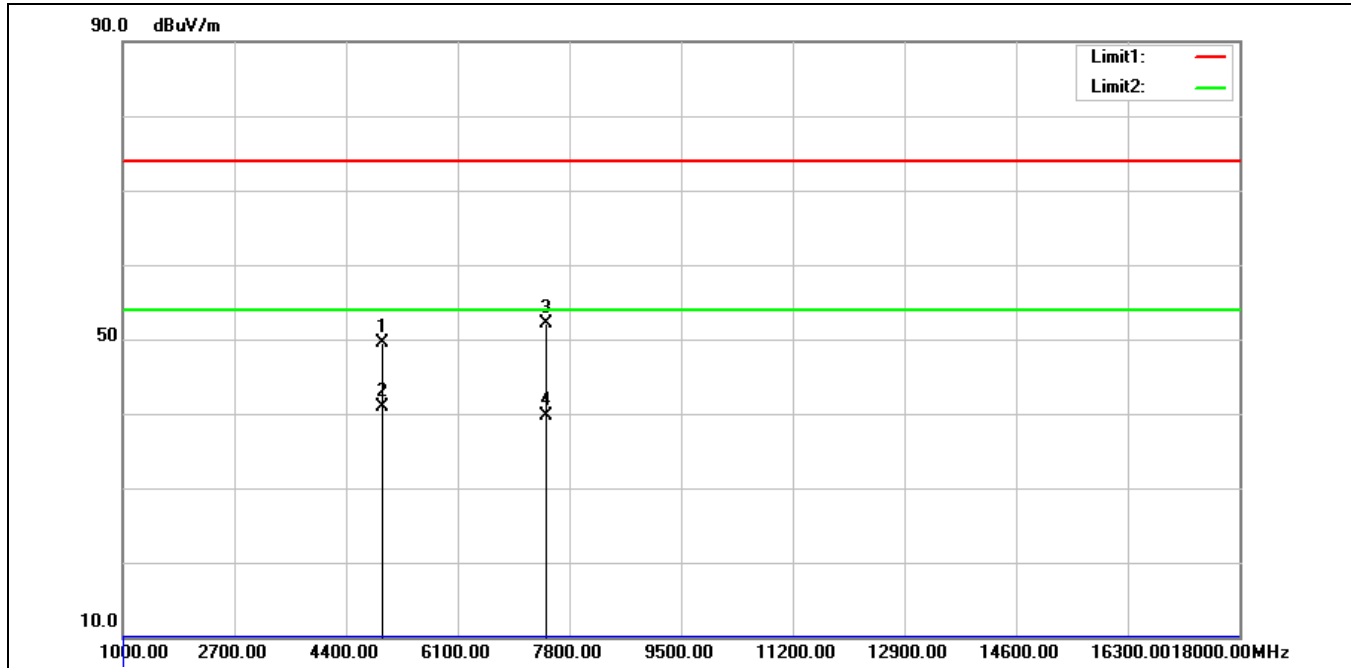
Test Engineer: Sam Su

Test Mode: 3DH5-2480-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4960.000	-1.91	55.03	53.12	74.00	-20.88	peak	100	343	P	
2	4960.000	-1.91	46.18	44.27	54.00	-9.73	AVG	100	343	P	
3	7440.000	6.44	44.79	51.23	74.00	-22.77	peak	100	116	P	
4	7440.000	6.44	33.50	39.94	54.00	-14.06	AVG	100	116	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

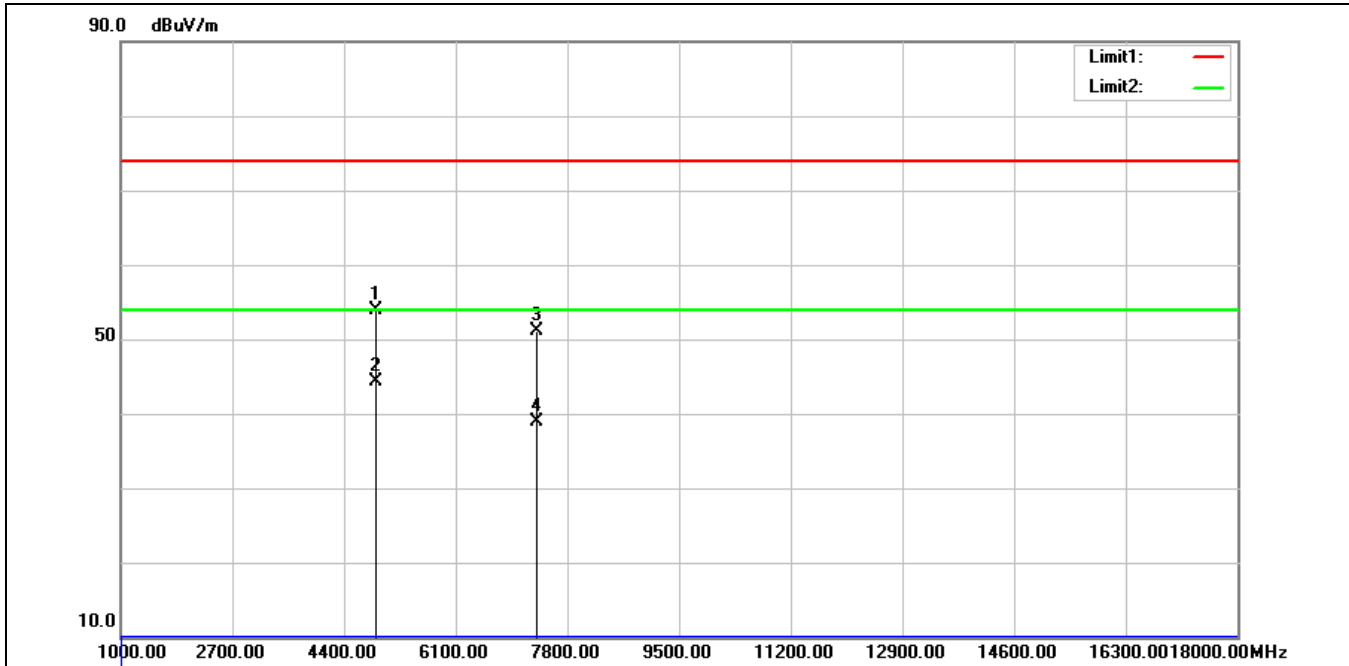
Test Engineer: Sam Su

Test Mode: 3DH5-2480-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4960.000	-1.91	51.43	49.52	74.00	-24.48	peak	100	137	P	
2	4960.000	-1.91	42.87	40.96	54.00	-13.04	AVG	100	137	P	
3	7440.000	6.44	45.76	52.20	74.00	-21.80	peak	100	4	P	
4	7440.000	6.44	33.18	39.62	54.00	-14.38	AVG	100	4	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

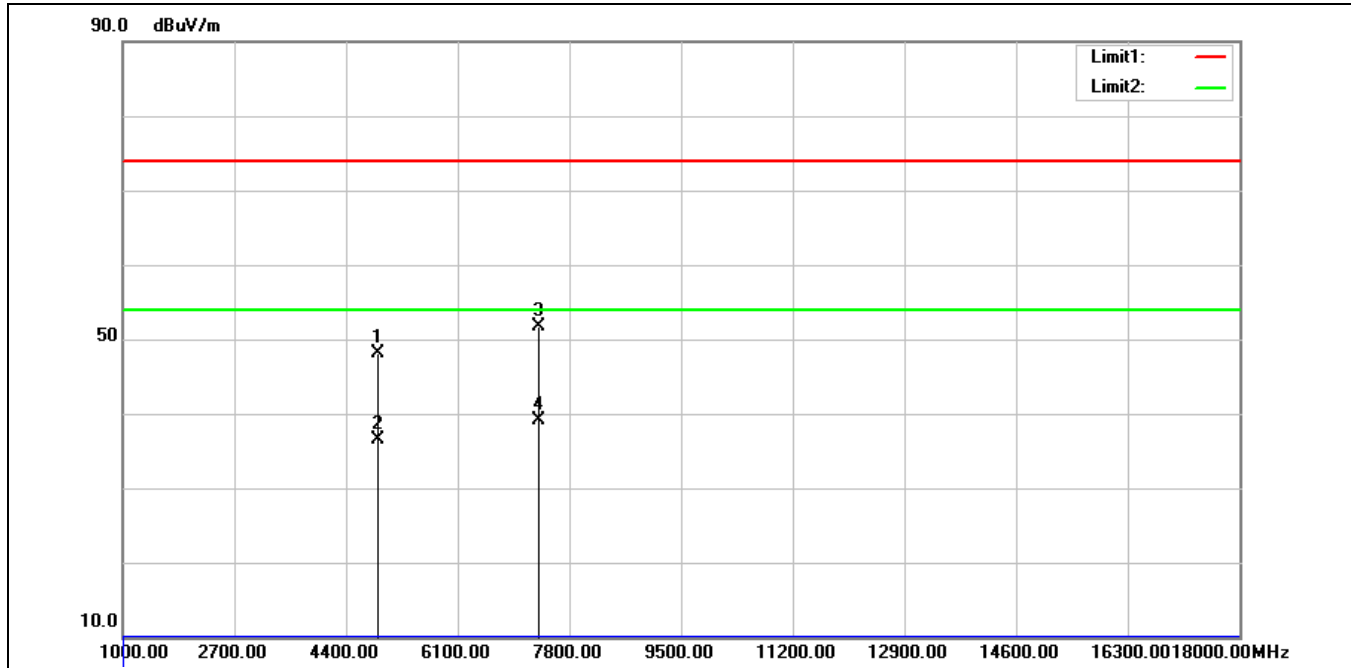
Test Engineer: Sam Su

Test Mode: 3DH5-2441-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4882.000	-2.10	55.95	53.85	74.00	-20.15	peak	100	356	P	
2	4882.000	-2.10	46.36	44.26	54.00	-9.74	AVG	100	356	P	
3	7323.000	6.11	45.04	51.15	74.00	-22.85	peak	100	163	P	
4	7323.000	6.11	32.83	38.94	54.00	-15.06	AVG	100	163	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

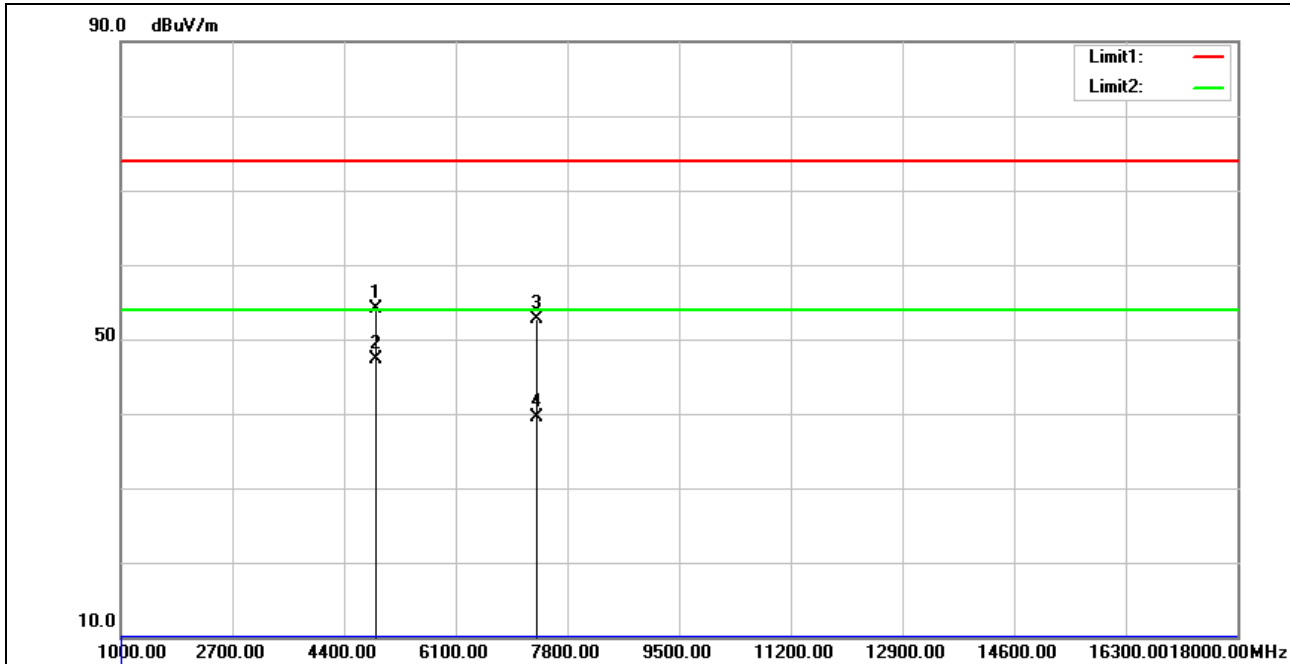
Test Engineer: Sam Su

Test Mode: 3DH5-2441-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4882.000	-2.10	50.20	48.10	74.00	-25.90	peak	100	316	P	
2	4882.000	-2.10	38.59	36.49	54.00	-17.51	AVG	100	316	P	
3	7323.000	6.11	45.69	51.80	74.00	-22.20	peak	100	357	P	
4	7323.000	6.11	32.93	39.04	54.00	-14.96	AVG	100	357	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

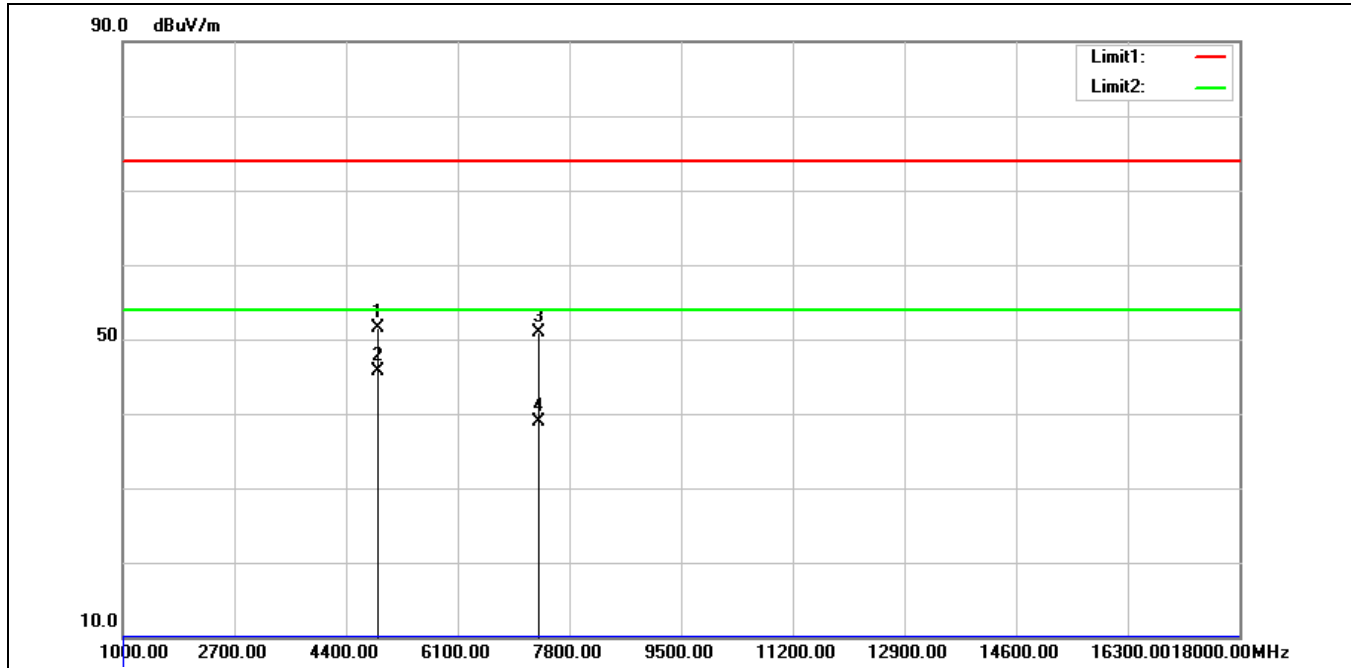
Test Engineer: Sam Su

Test Mode: 1DH5-2441-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4882.000	-2.10	56.16	54.06	74.00	-19.94	peak	100	359	P	
2	4882.000	-2.10	49.34	47.24	54.00	-6.76	AVG	100	359	P	
3	7323.000	6.11	46.66	52.77	74.00	-21.23	peak	100	133	P	
4	7323.000	6.11	33.43	39.54	54.00	-14.46	AVG	100	133	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

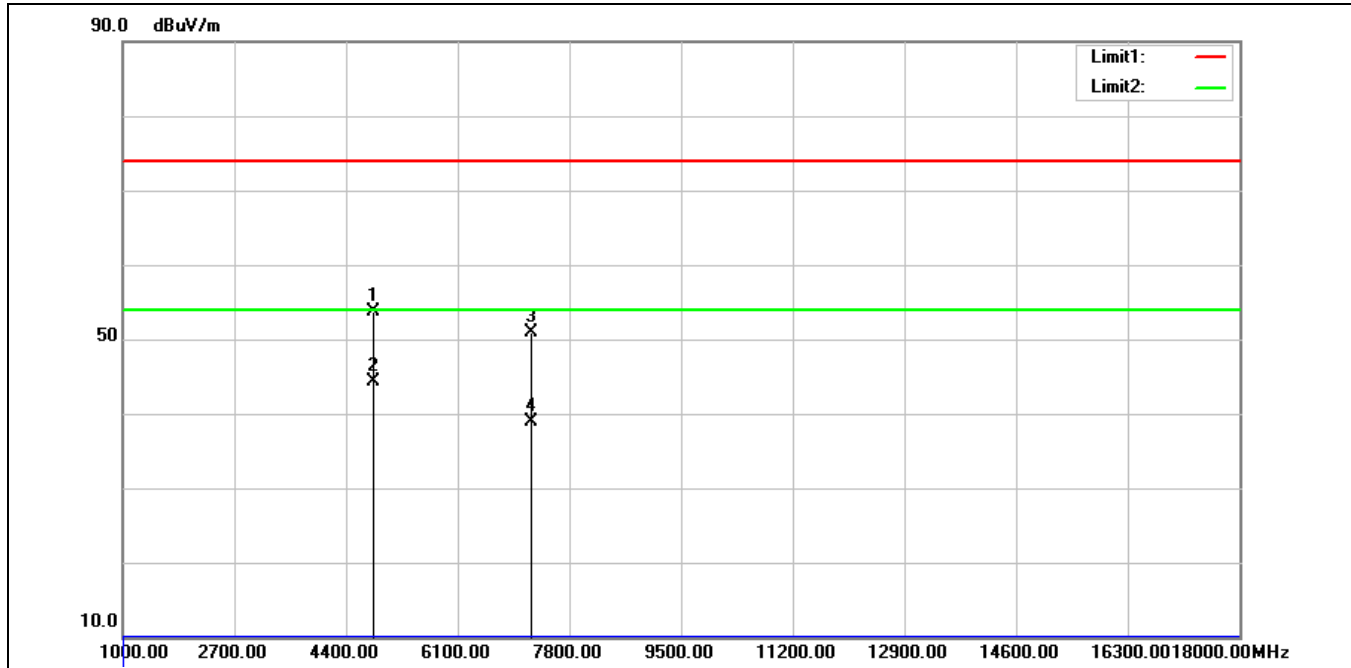
Test Engineer: Sam Su

Test Mode: 1DH5-2441-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4882.000	-2.10	53.54	51.44	74.00	-22.56	peak	100	136	P	
2	4882.000	-2.10	47.90	45.80	54.00	-8.20	AVG	100	136	P	
3	7323.000	6.11	44.85	50.96	74.00	-23.04	peak	100	66	P	
4	7323.000	6.11	32.80	38.91	54.00	-15.09	AVG	100	66	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test item: Radiation Emission

Applicant: Microchip

Product: BT module

Model No.: BM64SPKabcC1 ClassI

Test Distance: 3m

Ant. Polarization: Horizontal

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Test Rating: DC 5V

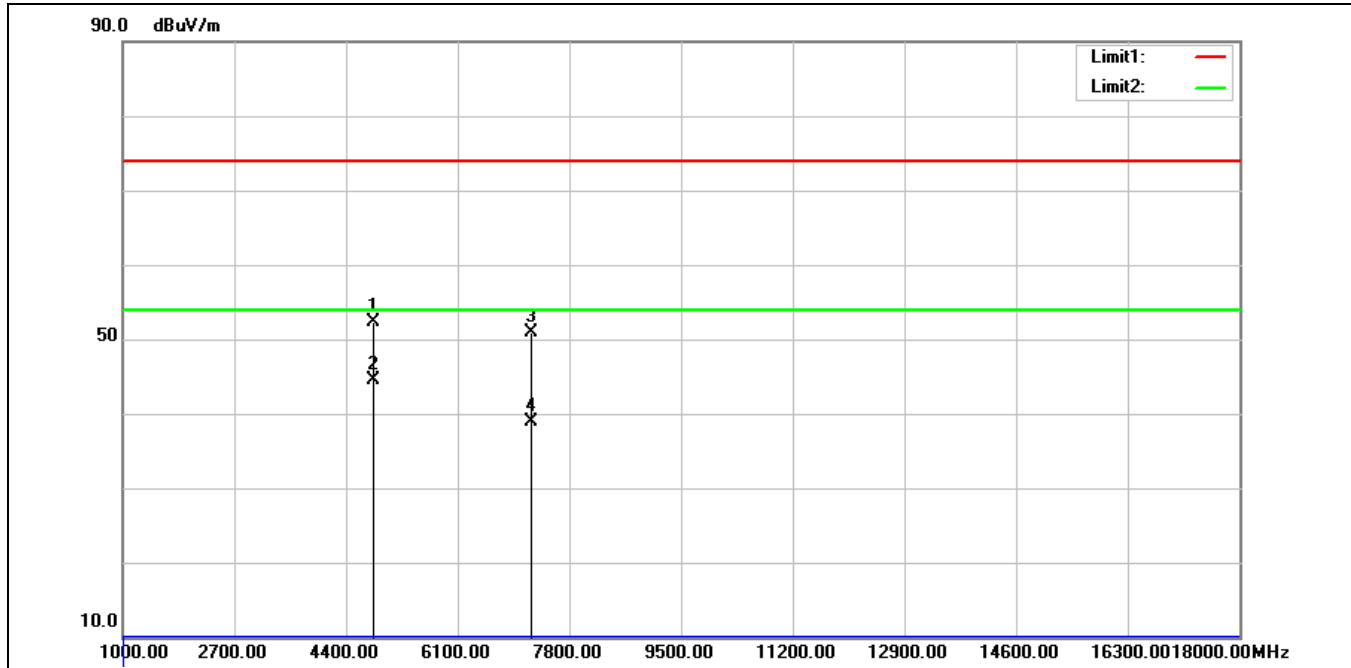
Test Engineer: Sam Su

Test Mode: 2DH5-2402-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	56.08	53.80	74.00	-20.20	peak	100	354	P	
2	4804.000	-2.28	46.52	44.24	54.00	-9.76	AVG	100	354	P	
3	7206.000	5.77	45.09	50.86	74.00	-23.14	peak	100	129	P	
4	7206.000	5.77	33.10	38.87	54.00	-15.13	AVG	100	129	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test item: Radiation Emission

Applicant: Microchip

Product: BT module

Model No.: BM64SPKabcC1 ClassI

Test Distance: 3m

Ant. Polarization: Vertical

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Test Rating: DC 5V

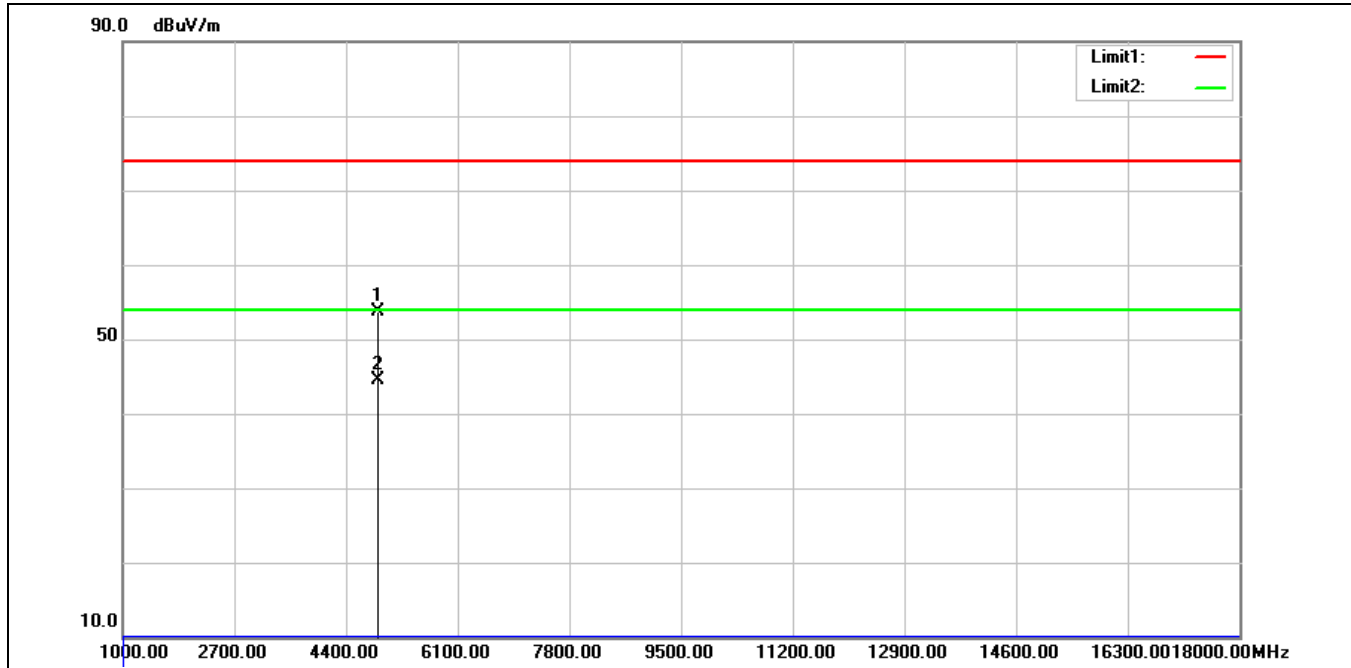
Test Engineer: Sam Su

Test Mode: 2DH5-2402-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	54.51	52.23	74.00	-21.77	peak	100	133	P	
2	4804.000	-2.28	46.76	44.48	54.00	-9.52	AVG	100	133	P	
3	7206.000	5.77	45.18	50.95	74.00	-23.05	peak	100	48	P	
4	7206.000	5.77	33.11	38.88	54.00	-15.12	AVG	100	48	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test item: Radiation Emission

Applicant: Microchip

Product: BT module

Model No.: BM64SPKabcC1 ClassI

Test Distance: 3m

Ant. Polarization: Horizontal

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Test Rating: DC 5V

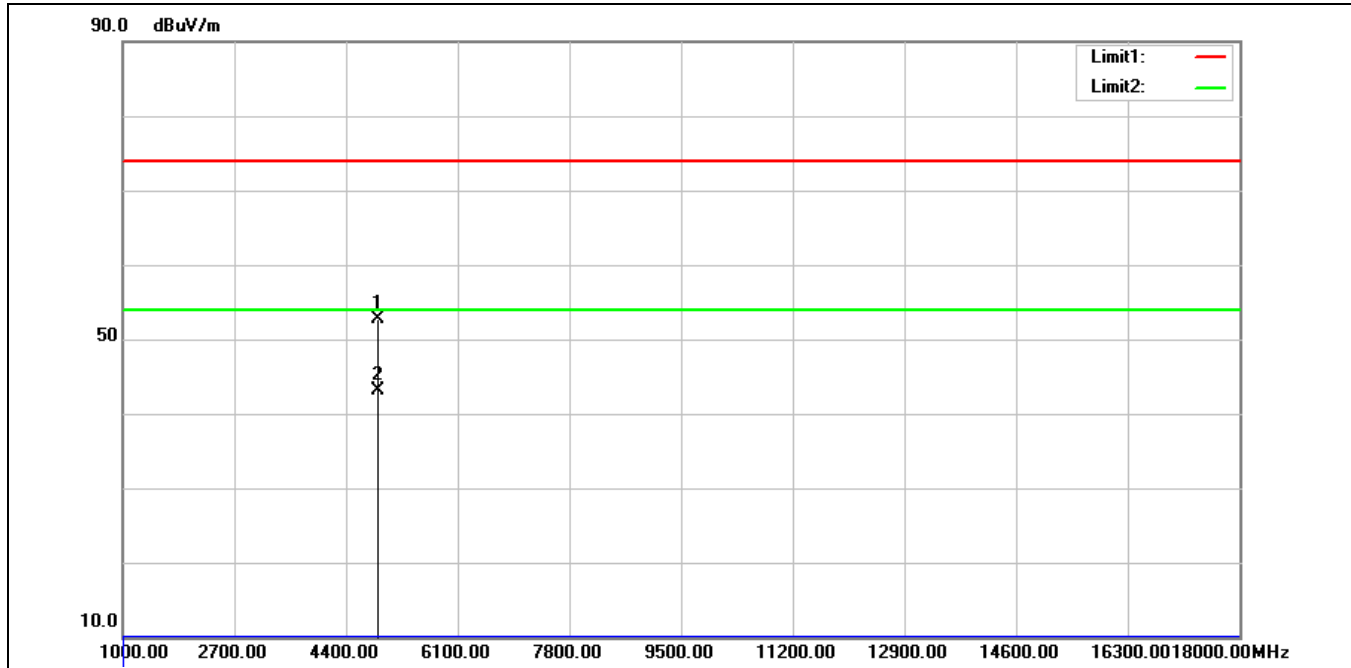
Test Engineer: Sam Su

Test Mode: 2DH5-2441-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4882.000	-2.10	55.83	53.73	74.00	-20.27	peak	100	1	P	
2	4882.000	-2.10	46.56	44.46	54.00	-9.54	AVG	100	1	P	

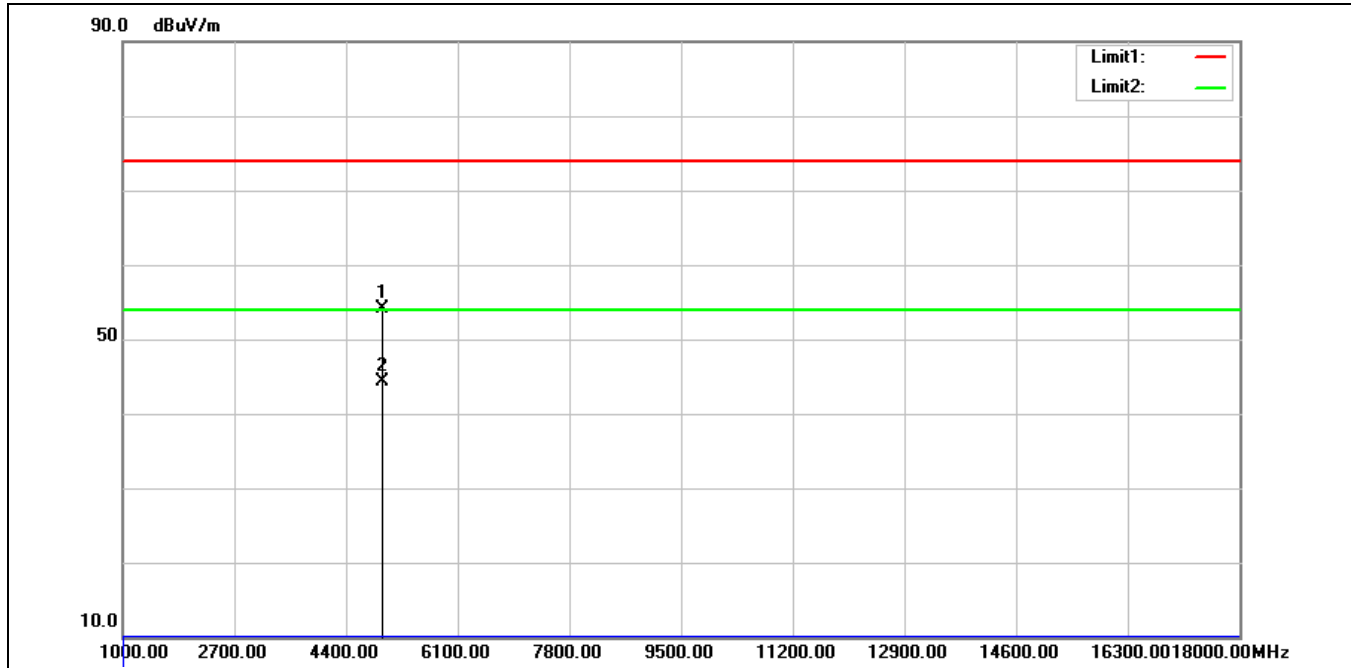


Service No.: 20160106(BM64)
Test Standard: FCC Above 1G PEAK
Test item: Radiation Emission
Applicant: Microchip
Product: BT module
Model No.: BM64SPKabcC1 ClassI

Test Distance: 3m
Ant. Polarization: Vertical
Temp.(°C)/Hum.(%): 22.1(°C) / 64 %
Test Rating: DC 5V
Test Engineer: Sam Su

Test Mode: 2DH5-2441-TX
Remark: Sample No.4
Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4882.000	-2.10	54.84	52.74	74.00	-21.26	peak	100	133	P	
2	4882.000	-2.10	45.21	43.11	54.00	-10.89	AVG	100	133	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

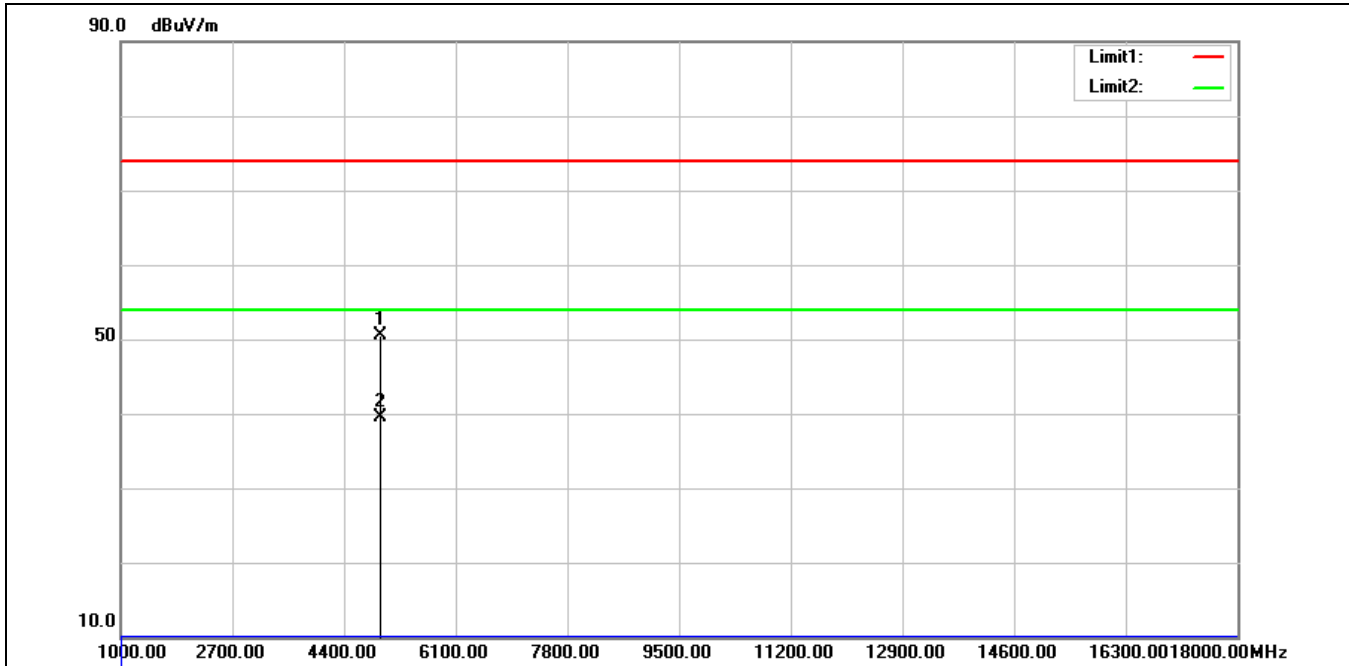
Test Engineer: Sam Su

Test Mode: 2DH5-2480-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4960.000	-1.91	56.11	54.20	74.00	-19.80	peak	100	358	P	
2	4960.000	-1.91	46.25	44.34	54.00	-9.66	AVG	100	358	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Vertical

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

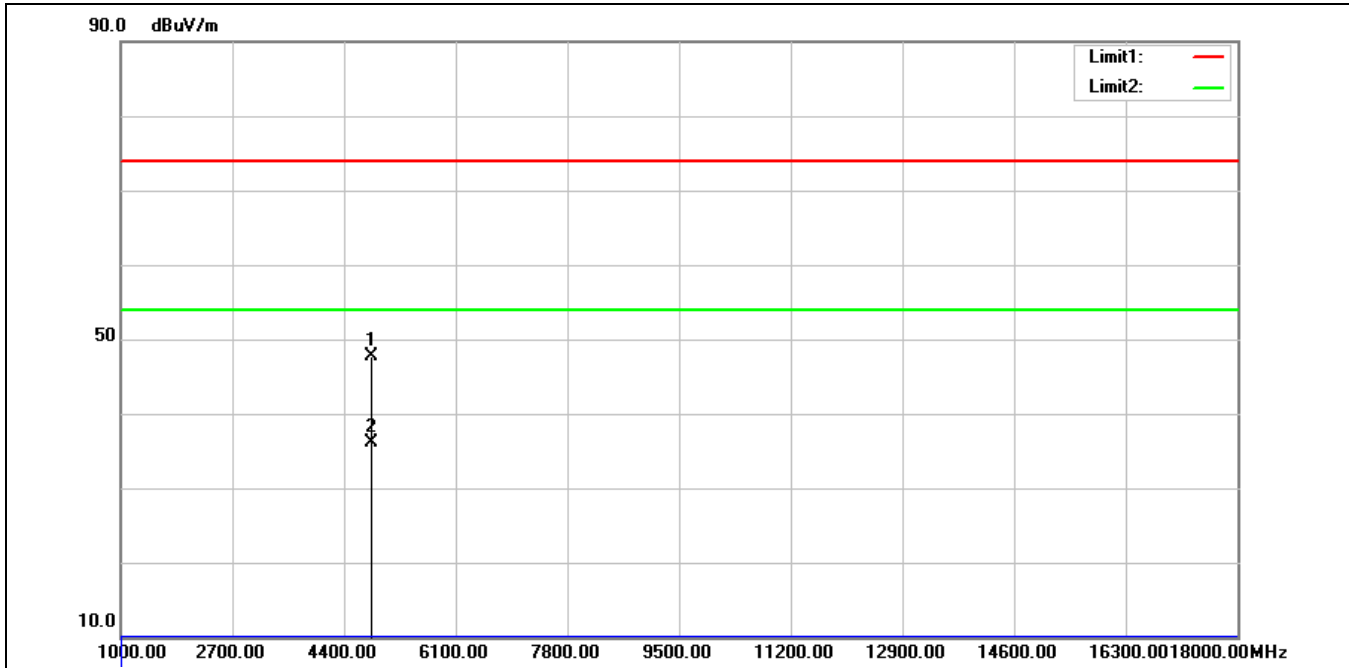
Test Engineer: Sam Su

Test Mode: 2DH5-2480-TX

Remark: Sample No.4

Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4960.000	-1.91	52.50	50.59	74.00	-23.41	peak	100	119	P	
2	4960.000	-1.91	41.43	39.52	54.00	-14.48	AVG	100	119	P	



Service No.: 20160106(BM64)

Test Standard: FCC Above 1G PEAK

Test Distance: 3m

Test item: Radiation Emission

Ant. Polarization: Horizontal

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.1(°C) / 64 %

Product: BT module

Test Rating: DC 5V

Model No.: BM64SPKabcC1 ClassI

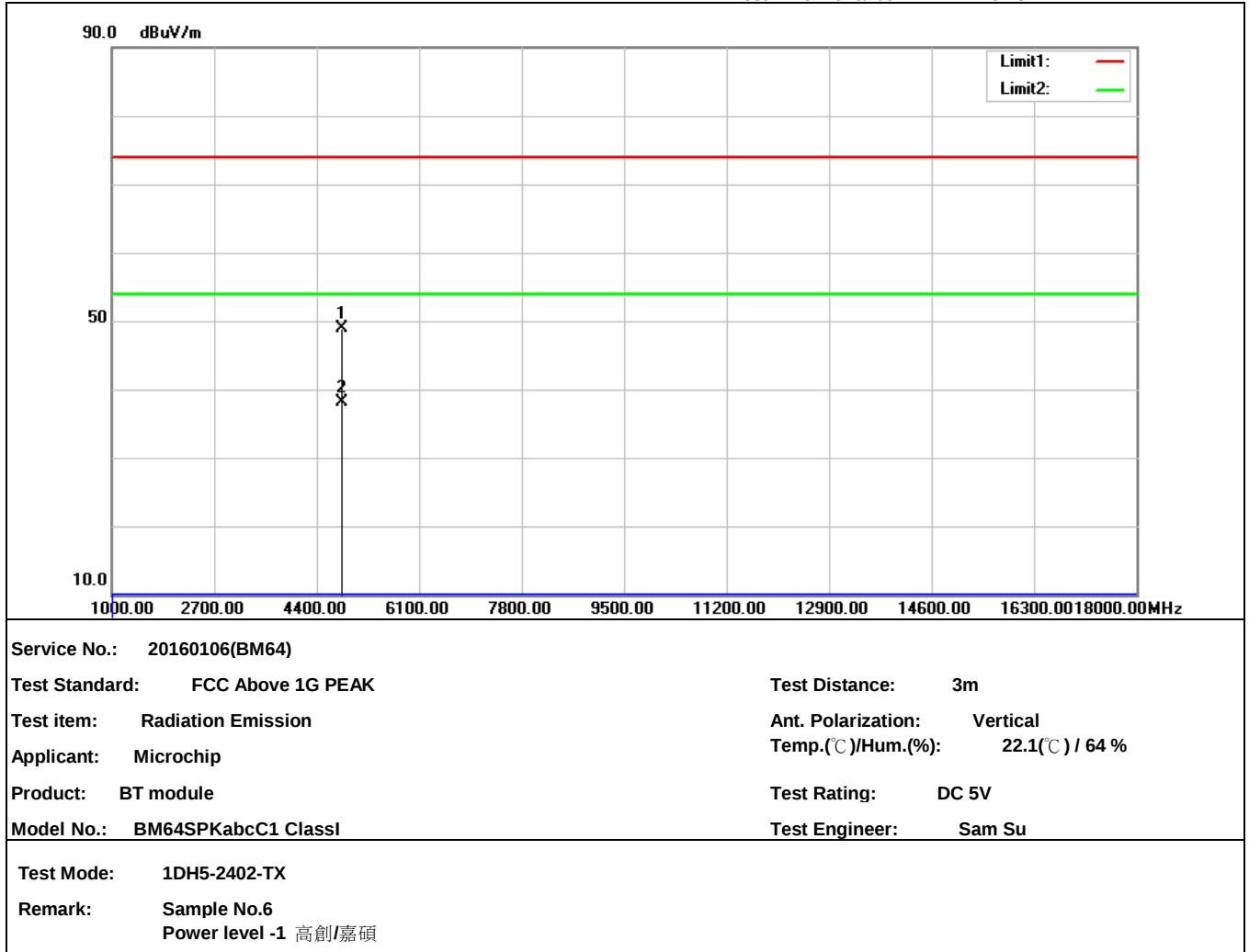
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.6

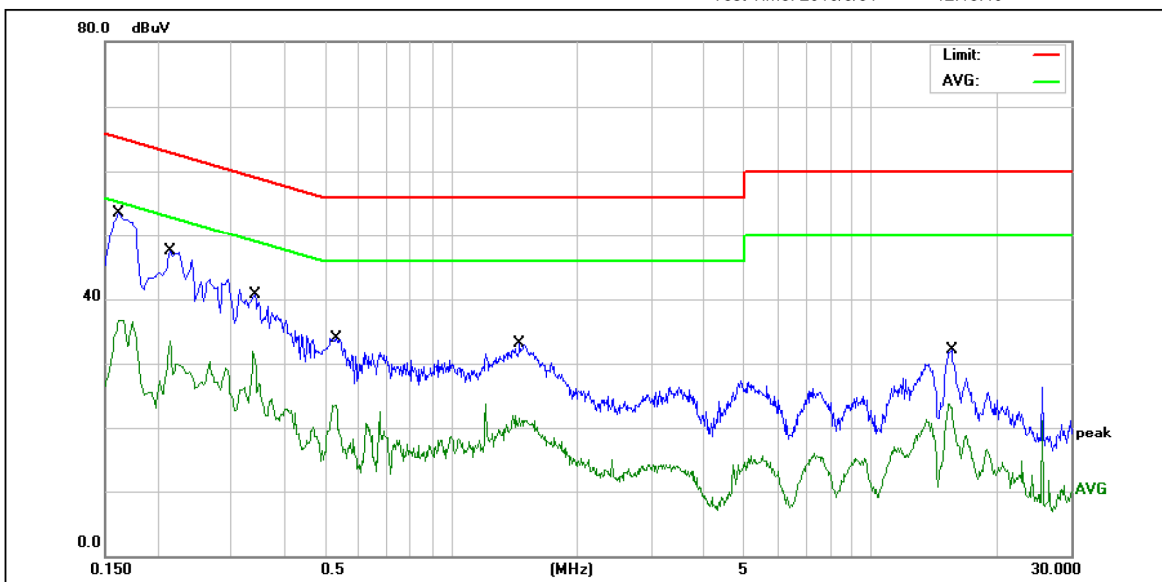
Power level -1 高創/嘉碩

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	50.07	47.79	74.00	-26.21	peak	100	152	P	
2	4804.000	-2.28	38.42	36.14	54.00	-17.86	AVG	100	152	P	



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	51.10	48.82	74.00	-25.18	peak	100	147	P	
2	4804.000	-2.28	40.41	38.13	54.00	-15.87	AVG	100	147	P	

Mains Spurious Emissions



Service No.: 114047336(BM64SPKabcC2)

Test Standard: FCC Class B Conduction(QP)

Test item: Conducted Emission

Phase: L1

Applicant: Microchip

Temp.(°C)/Hum.(%): 20.6(°C) / 52 %

Product: Class I Module (Shielding)

Power Rating: AC 120V/60Hz

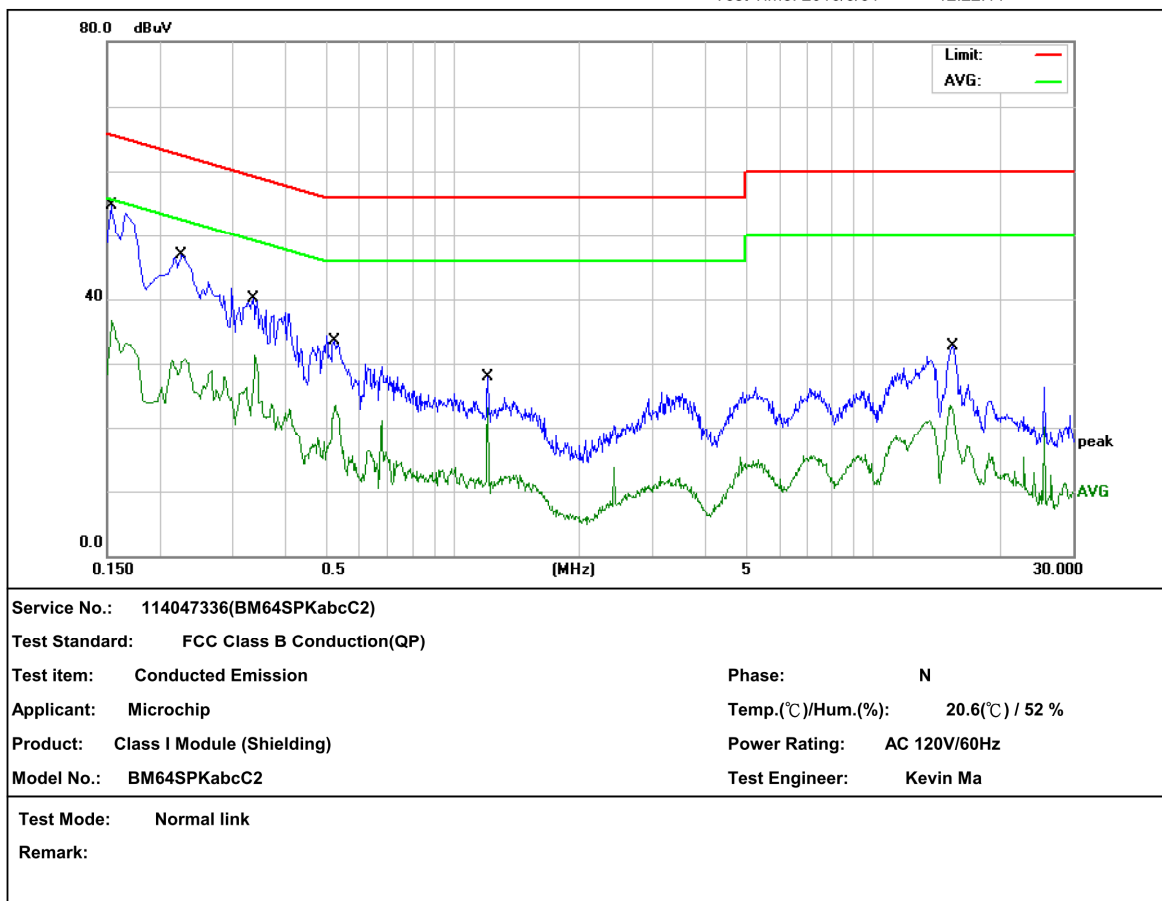
Model No.: BM64SPKabcC2

Test Engineer: Kevin Ma

Test Mode: Normal link

Remark:

No.	Frequency (MHz)	Factor ()	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1620	9.65	40.51	50.16	65.36	-15.20	QP	P	
2	0.1620	9.65	26.00	35.65	55.36	-19.71	AVG	P	
3	0.2140	9.63	34.60	44.23	63.04	-18.81	QP	P	
4	0.2140	9.63	20.36	29.99	53.04	-23.05	AVG	P	
5	0.3420	9.63	26.94	36.57	59.15	-22.58	QP	P	
6	0.3420	9.63	19.52	29.15	49.15	-20.00	AVG	P	
7	0.5340	9.63	22.29	31.92	56.00	-24.08	QP	P	
8	0.5340	9.63	12.55	22.18	46.00	-23.82	AVG	P	
9	1.4580	9.63	19.56	29.19	56.00	-26.81	QP	P	
10	1.4580	9.63	10.69	20.32	46.00	-25.68	AVG	P	
11	15.5780	9.85	16.78	26.63	60.00	-33.37	QP	P	
12	15.5780	9.85	11.58	21.43	50.00	-28.57	AVG	P	



No.	Frequency (MHz)	Factor ()	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	9.65	40.21	49.86	65.78	-15.92	QP	P	
2	0.1539	9.65	21.35	31.00	55.78	-24.78	AVG	P	
3	0.2260	9.63	32.63	42.26	62.59	-20.33	QP	P	
4	0.2260	9.63	17.42	27.05	52.59	-25.54	AVG	P	
5	0.3339	9.63	24.65	34.28	59.35	-25.07	QP	P	
6	0.3339	9.63	17.53	27.16	49.35	-22.19	AVG	P	
7	0.5220	9.63	21.23	30.86	56.00	-25.14	QP	P	
8	0.5220	9.63	12.50	22.13	46.00	-23.87	AVG	P	
9	1.2100	9.63	15.18	24.81	56.00	-31.19	QP	P	
10	1.2100	9.63	13.24	22.87	46.00	-23.13	AVG	P	
11	15.4940	9.84	17.04	26.88	60.00	-33.12	QP	P	
12	15.4940	9.84	11.71	21.55	50.00	-28.45	AVG	P	