

Test Report No.50041194 50041196 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50041194 50041196AppendixD)

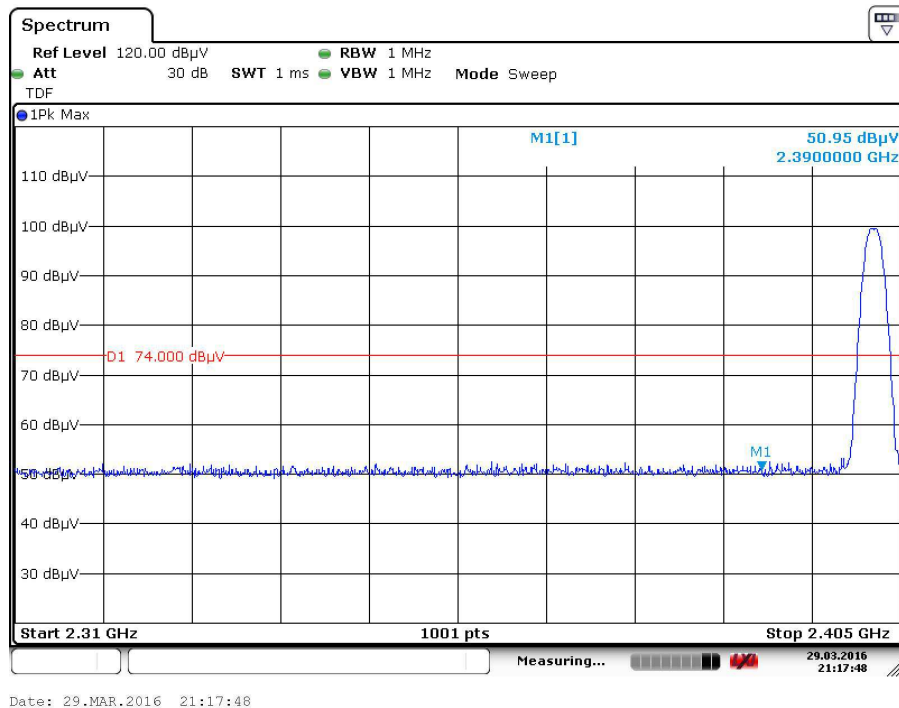
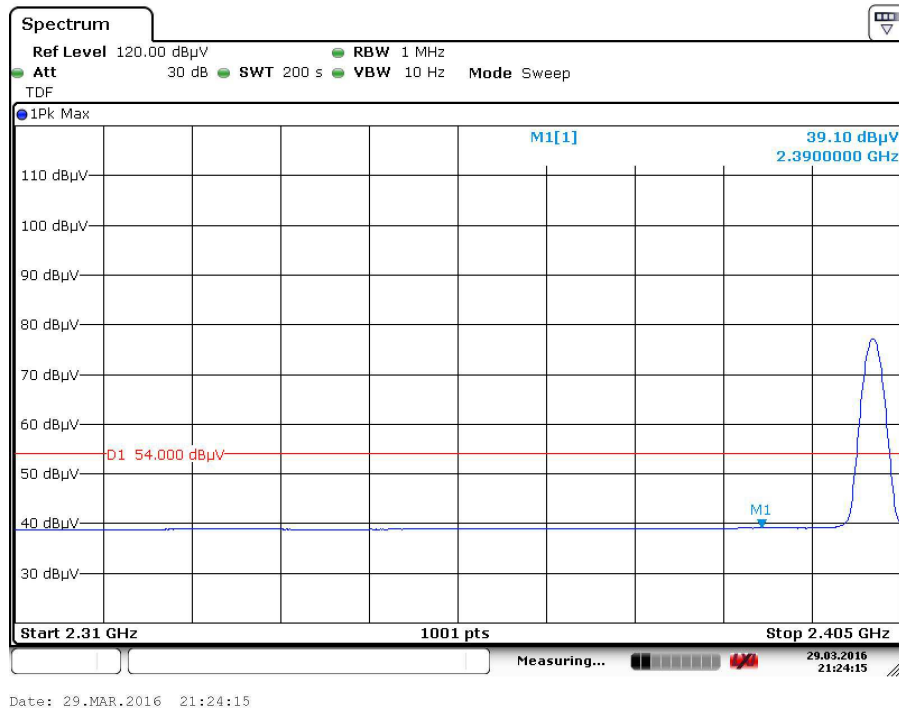
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Spurious Emissions, Band Edges, 2.35-2.5G

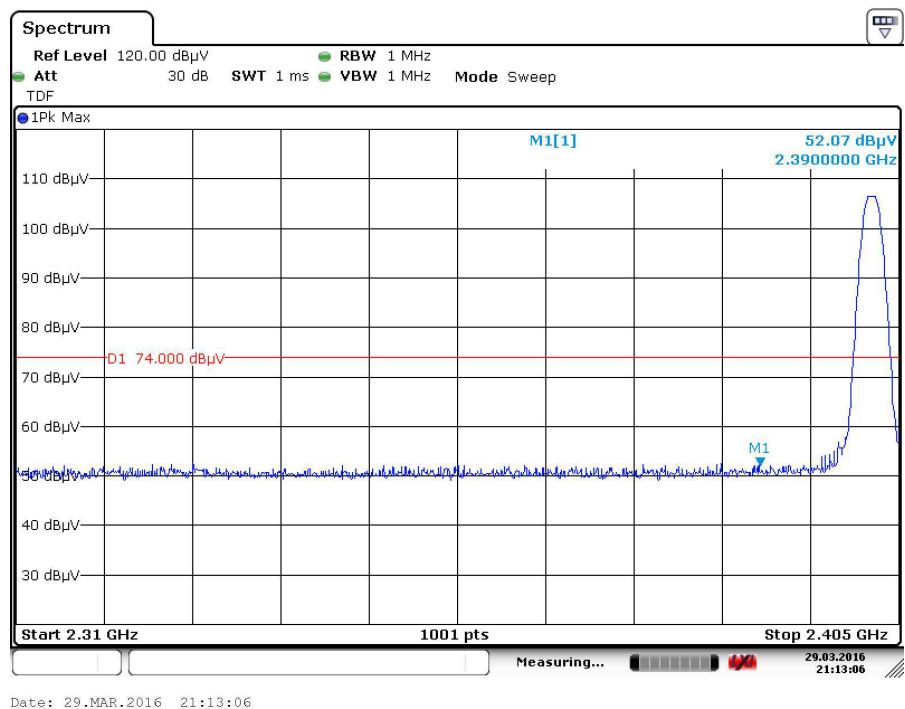
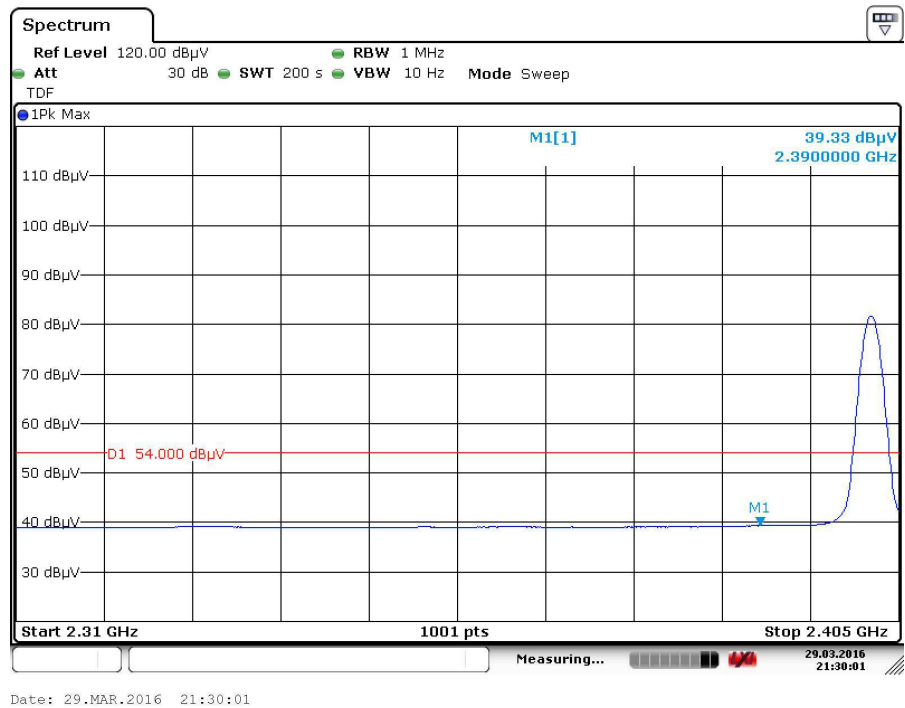
Radiated Bandedge (GFSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

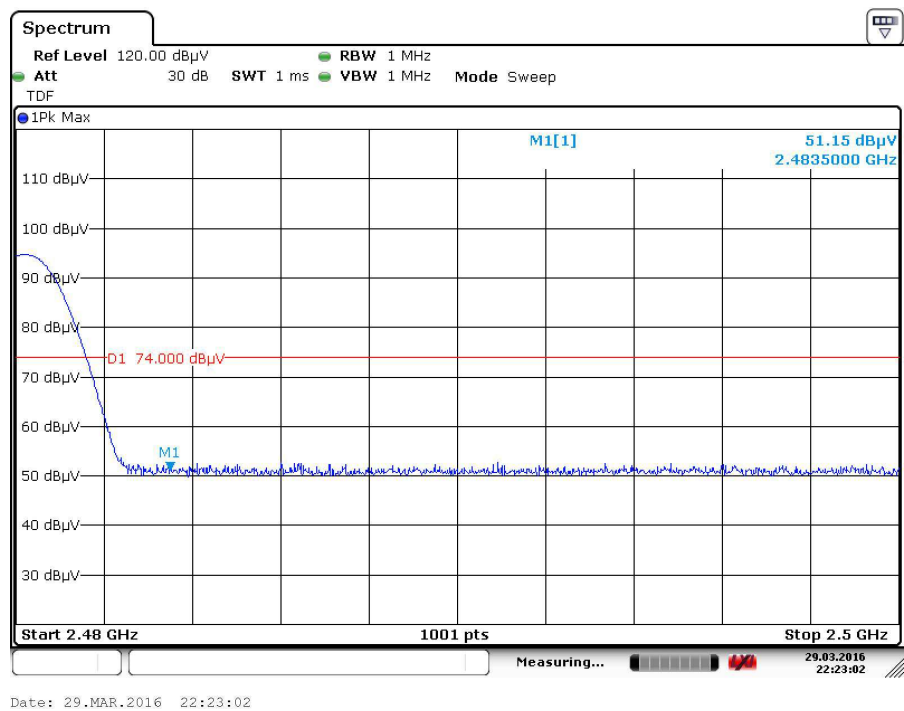
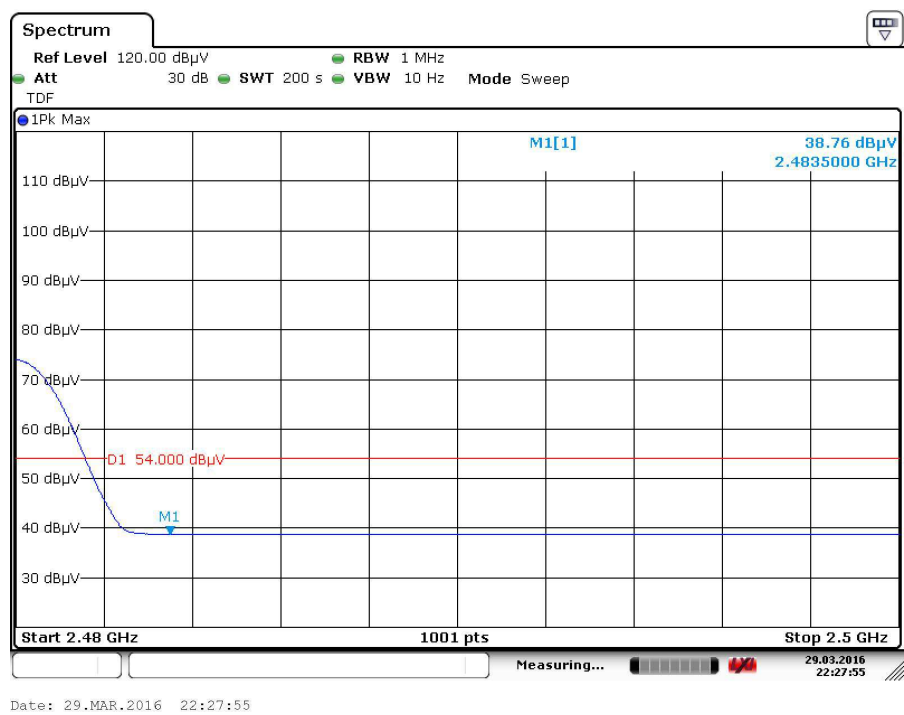
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

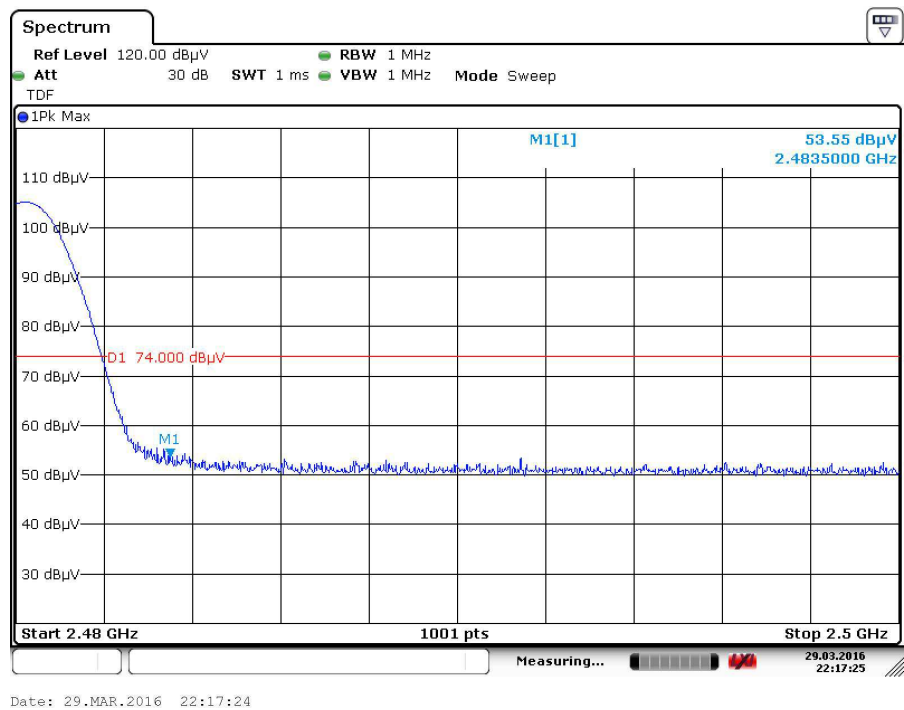
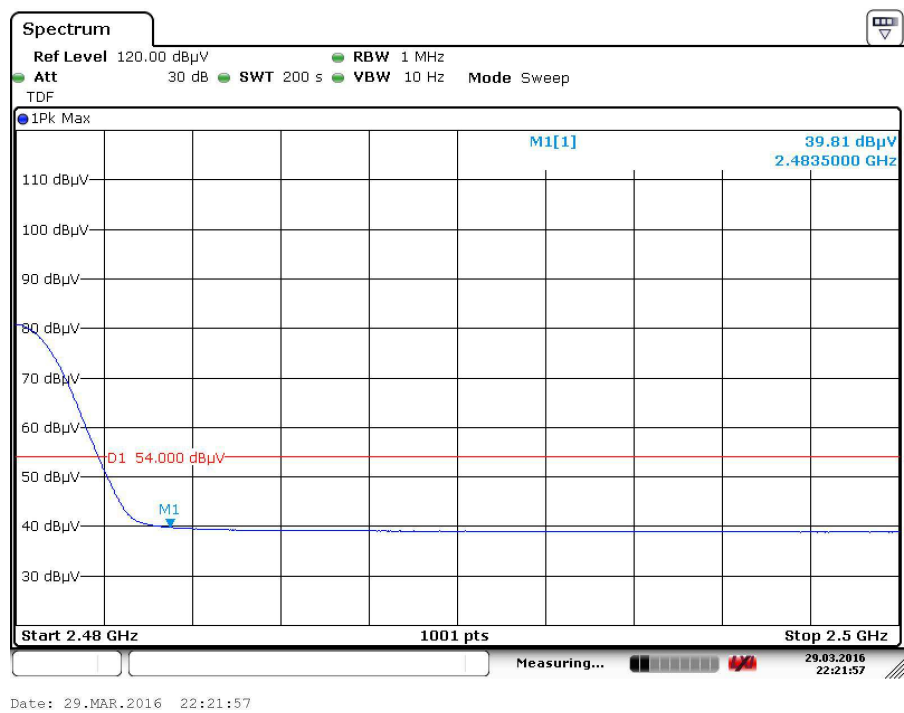
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

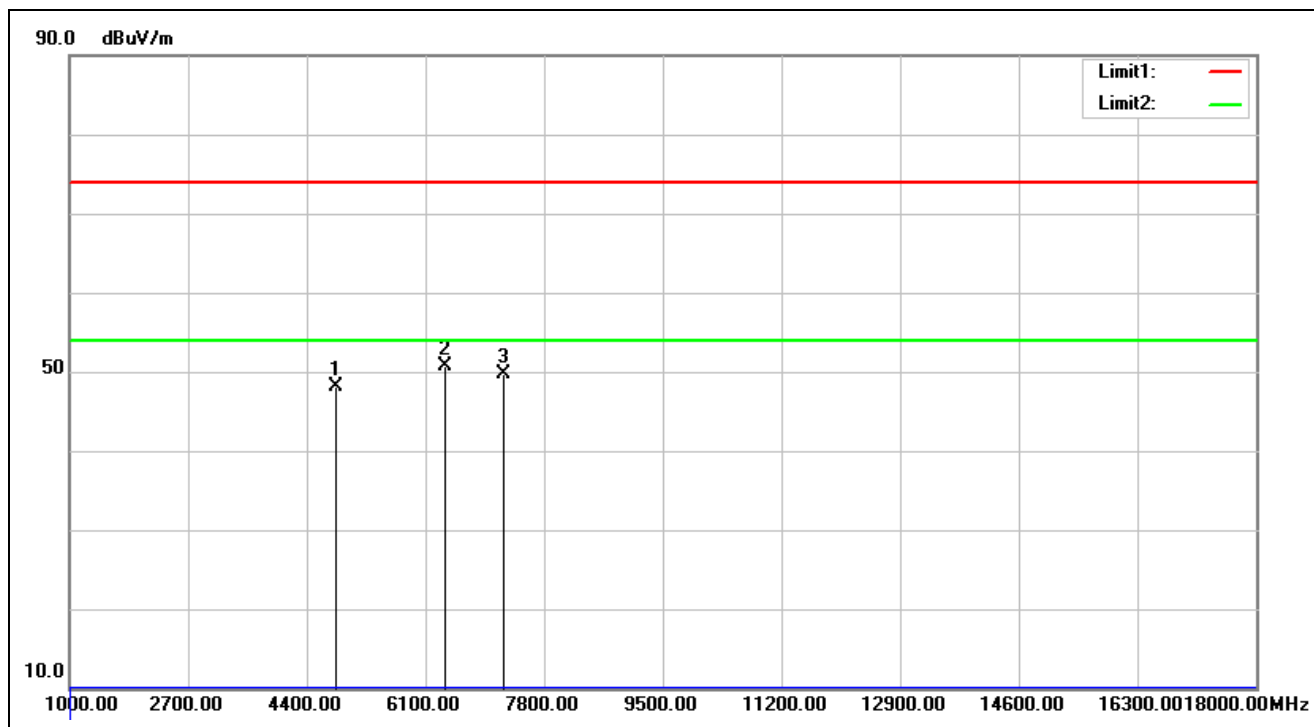
Spurious Emissions, TX Mode, 1-18G



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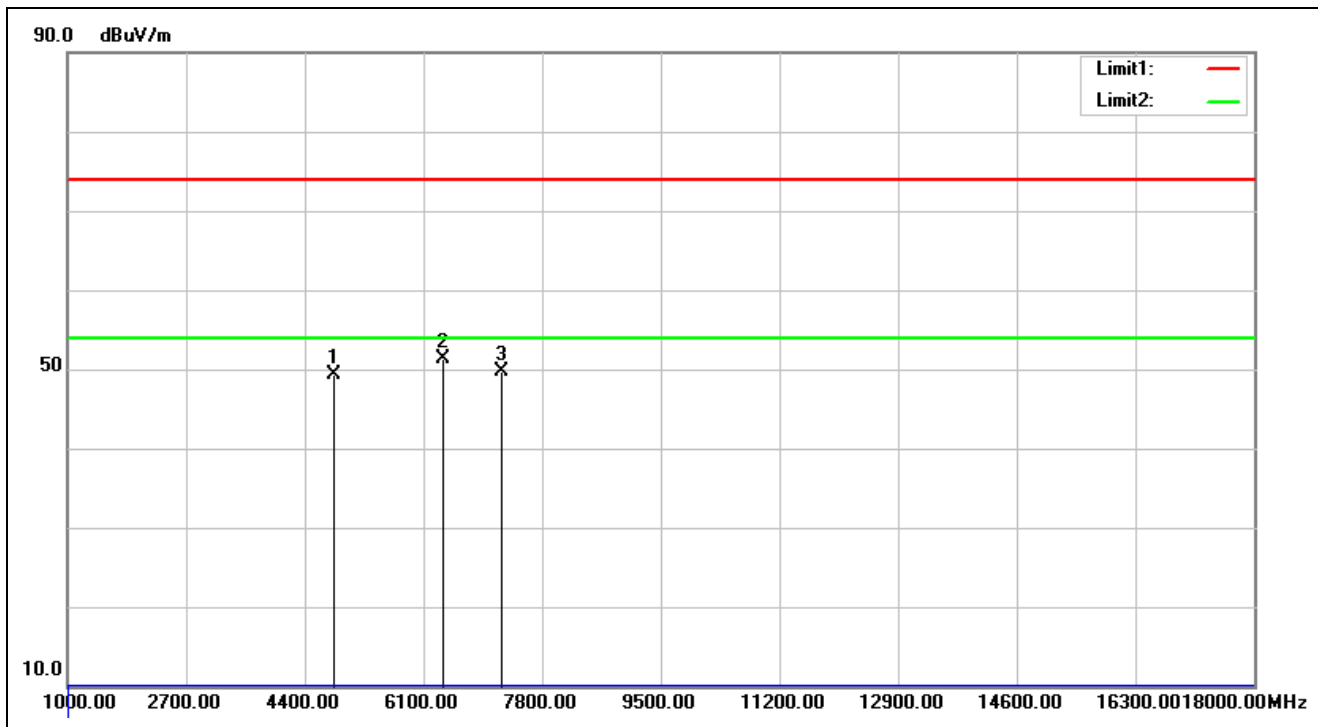
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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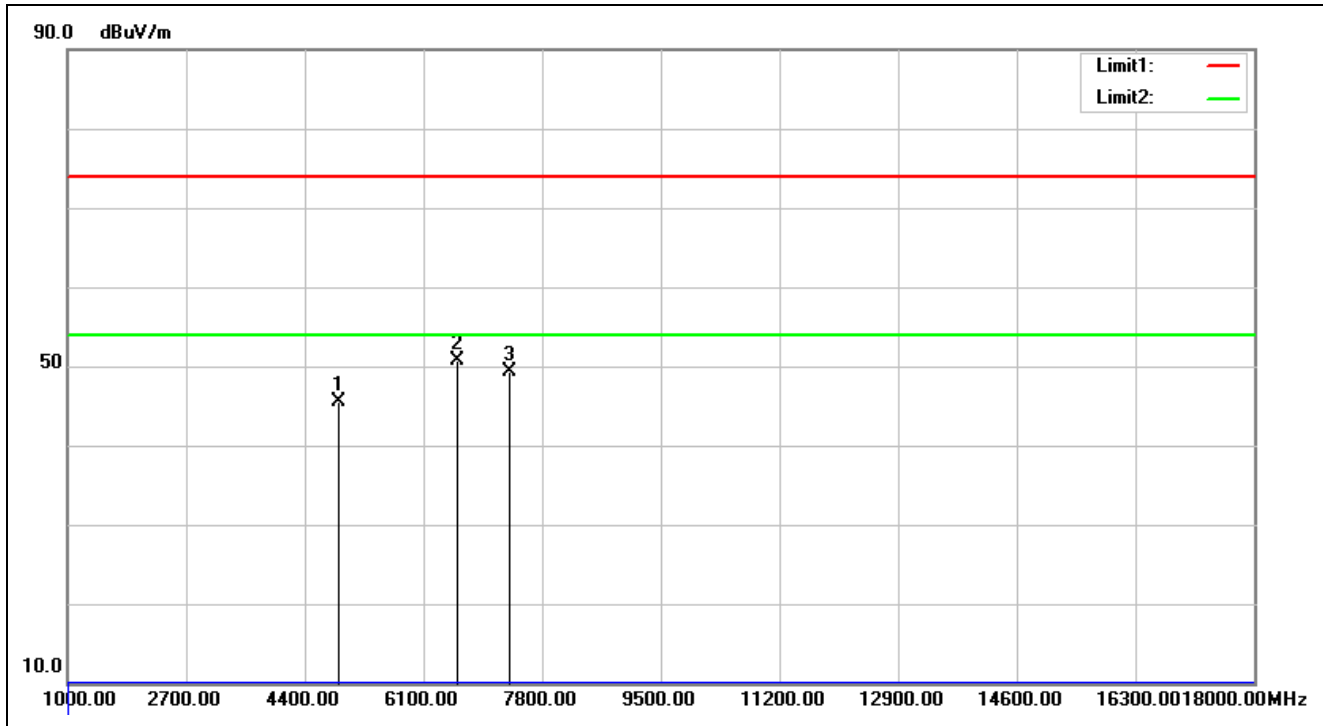
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:51:07
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	50.34	48.06	74.00	-25.94	peak			
2	6389.000	5.61	45.11	50.72	74.00	-23.28	peak	100	11	
3	7206.000	5.77	43.85	49.62	74.00	-24.38	peak			



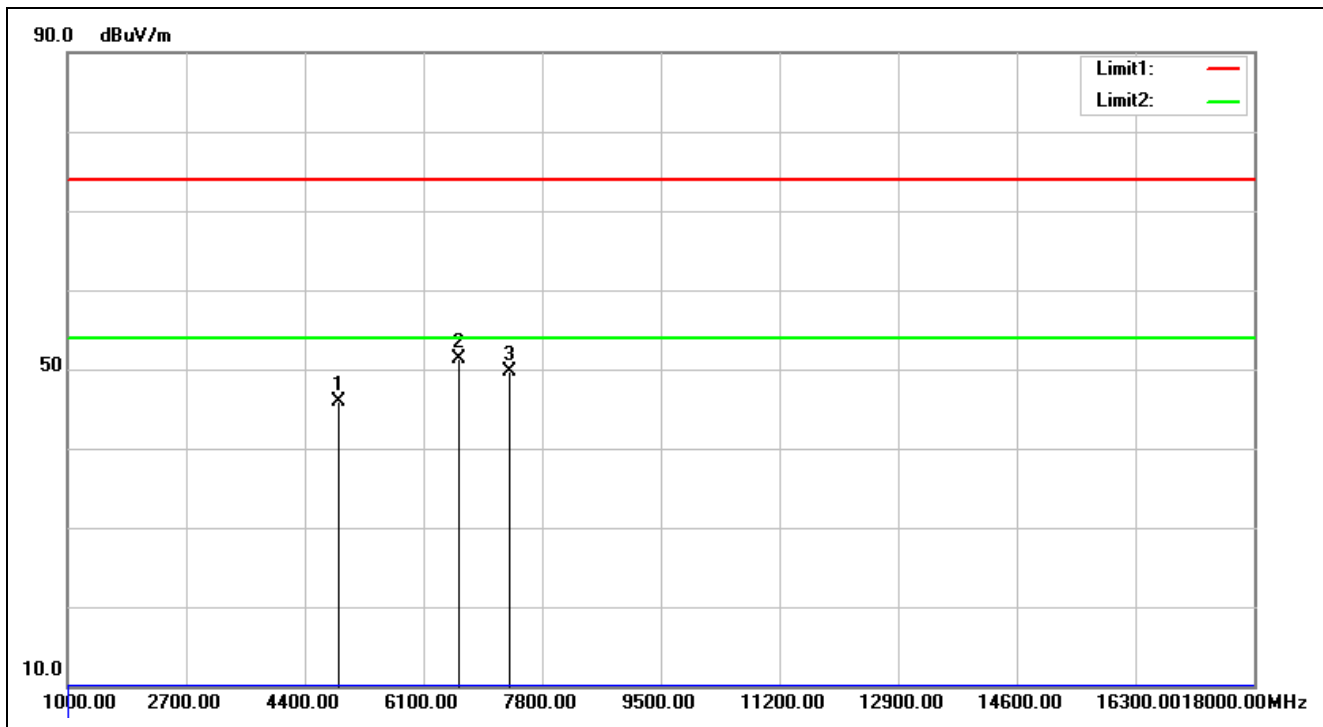
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:52:10
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	51.54	49.26	74.00	-24.74	peak	100	147	
2	6389.000	5.61	45.71	51.32	74.00	-22.68	peak	100	250	
3	7206.000	5.77	43.90	49.67	74.00	-24.33	peak			



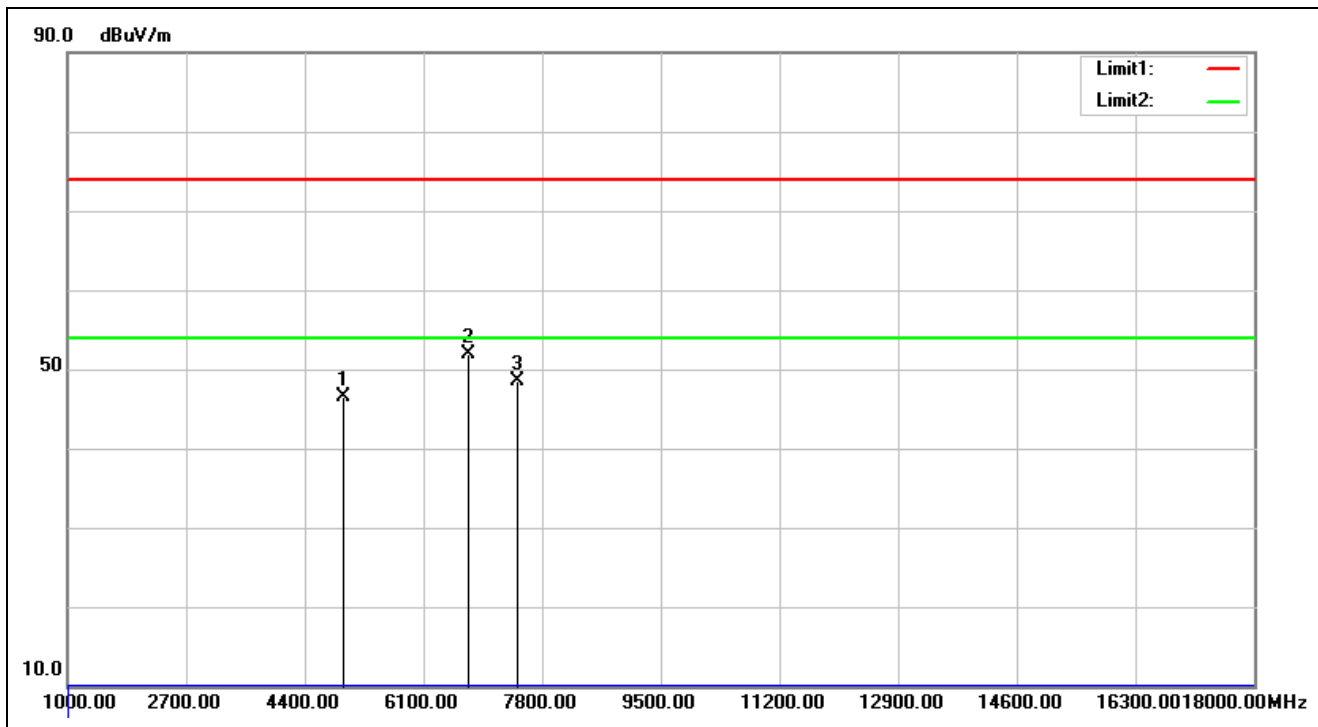
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:54:33
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	-2.10	47.64	45.54	74.00	-28.46	peak			
2	6576.000	5.90	44.80	50.70	74.00	-23.30	peak	100	357	
3	7320.000	6.10	43.30	49.40	74.00	-24.60	peak			



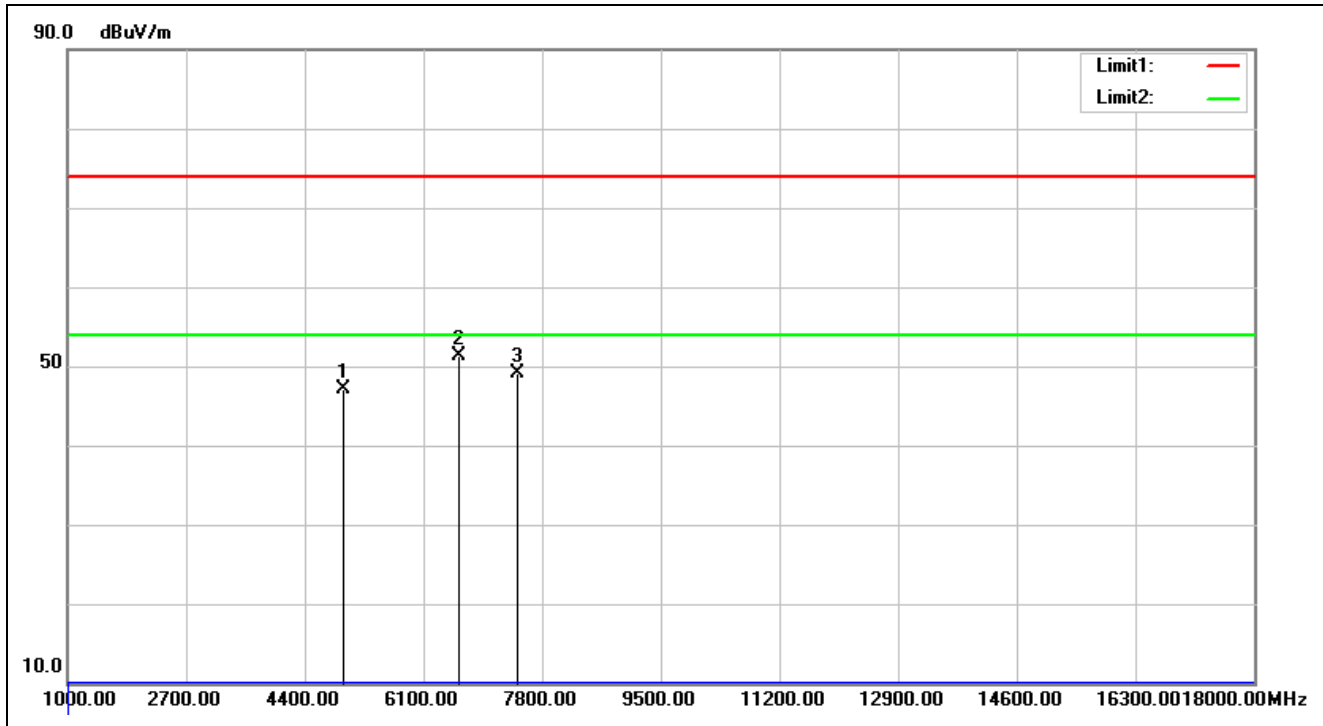
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:55:36
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	-2.10	48.02	45.92	74.00	-28.08	peak			
2	6610.000	5.84	45.50	51.34	74.00	-22.66	peak	100	12	
3	7320.000	6.10	43.61	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 19:58:05
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:	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	48.40	46.49	74.00	-27.51	peak			
2	6746.000	5.60	46.33	51.93	74.00	-22.07	peak	100	116	
3	7440.000	6.44	42.13	48.57	74.00	-25.43	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 19:59:08
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:	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	49.07	47.16	74.00	-26.84	peak			
2	6610.000	5.84	45.37	51.21	74.00	-22.79	peak	100	319	
3	7440.000	6.44	42.65	49.09	74.00	-24.91	peak			

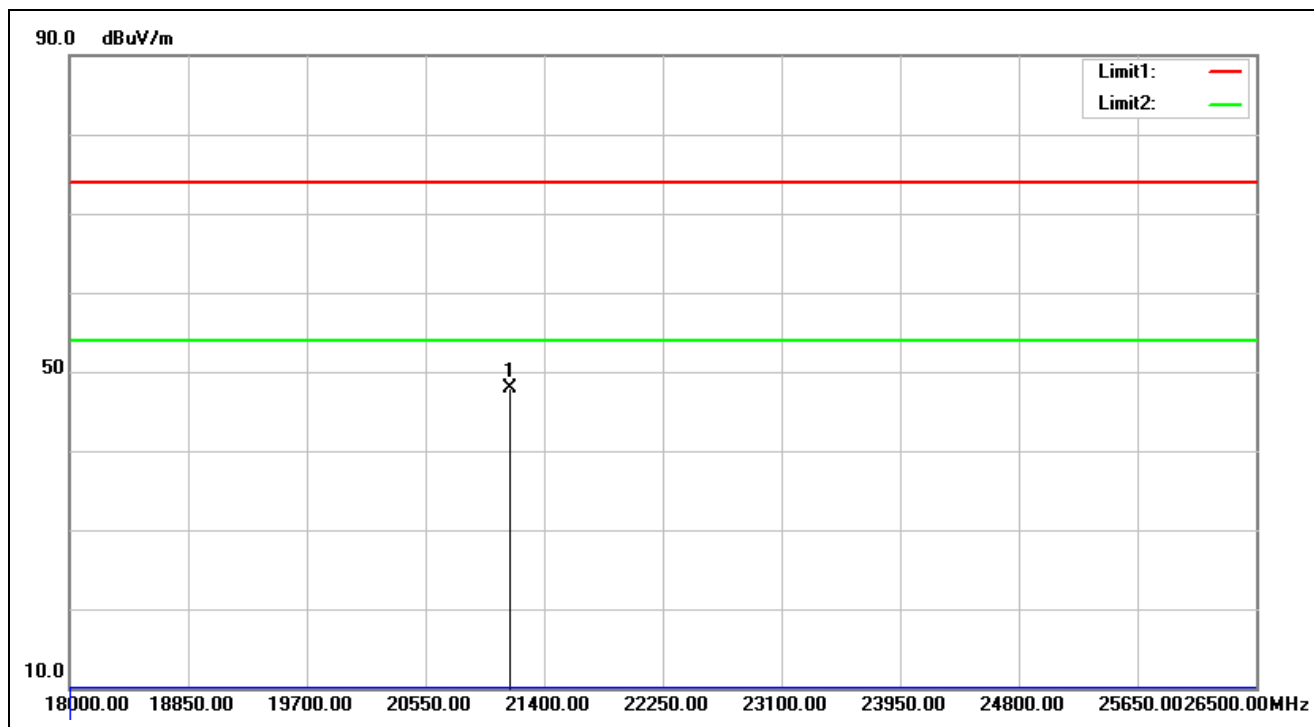
Spurious Emissions, TX Mode, 18-26G



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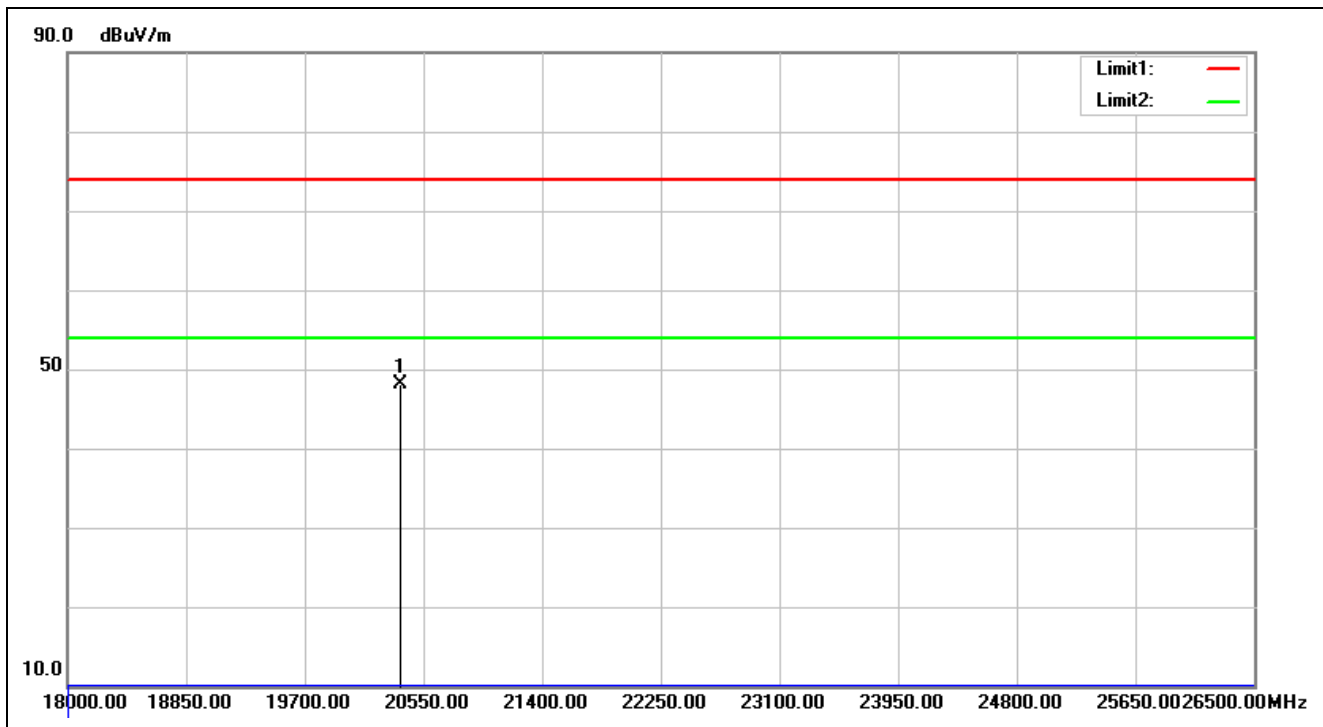
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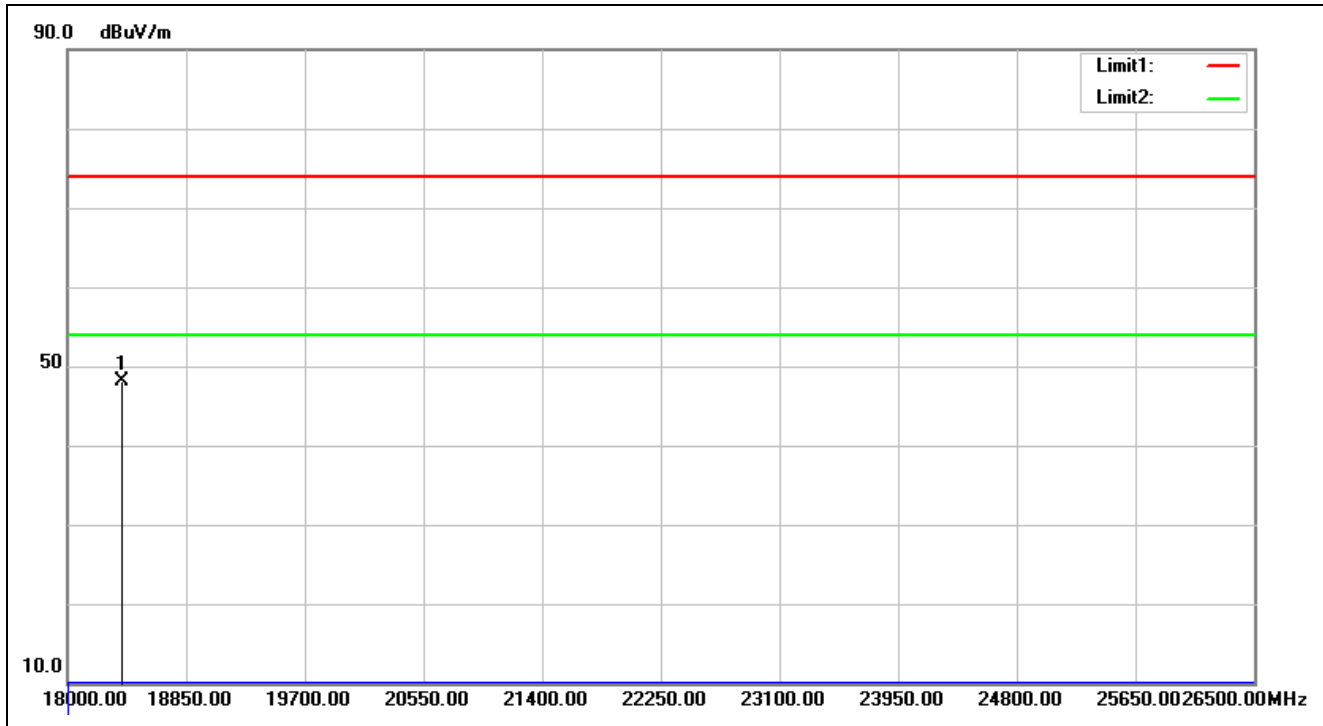
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Test item:	Radiation Emission	Test Time:	2016/3/29 22:27:13
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21153.500	29.83	17.99	47.82	74.00	-26.18	peak			



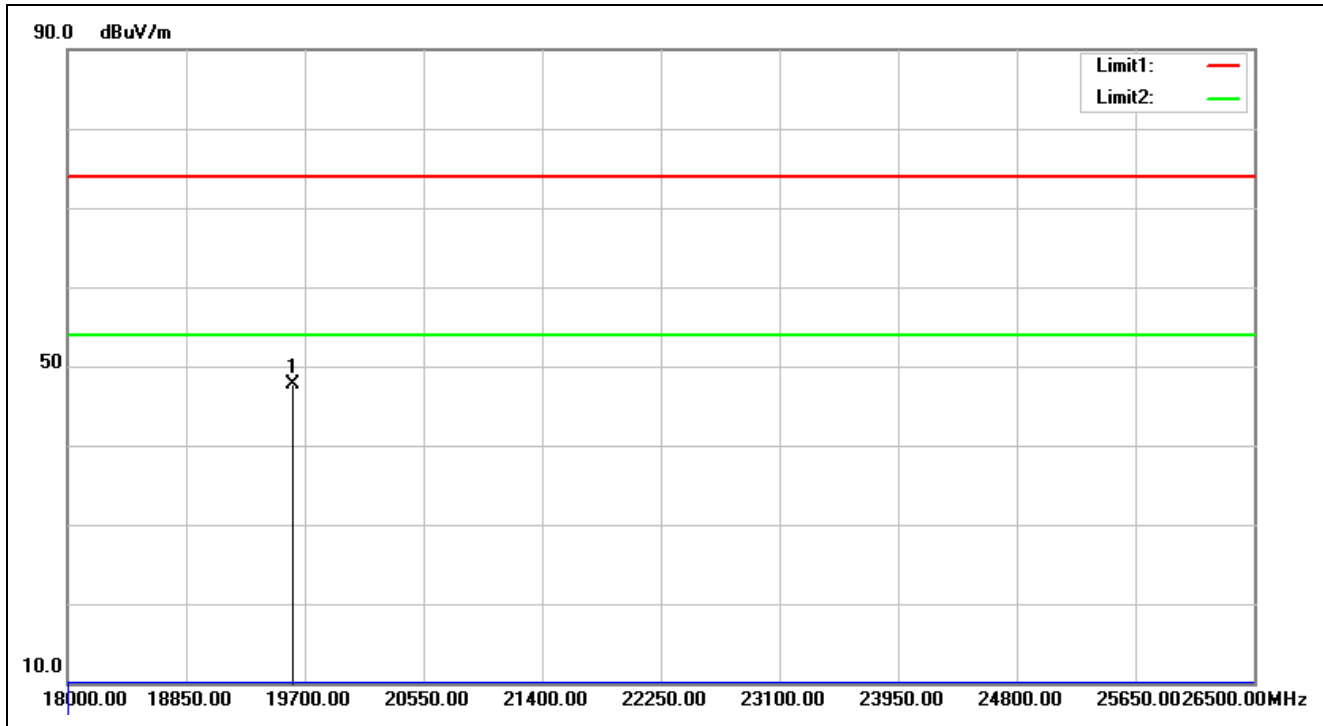
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:27:20
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	20388.500	29.80	18.28	48.08	74.00	-25.92	peak			



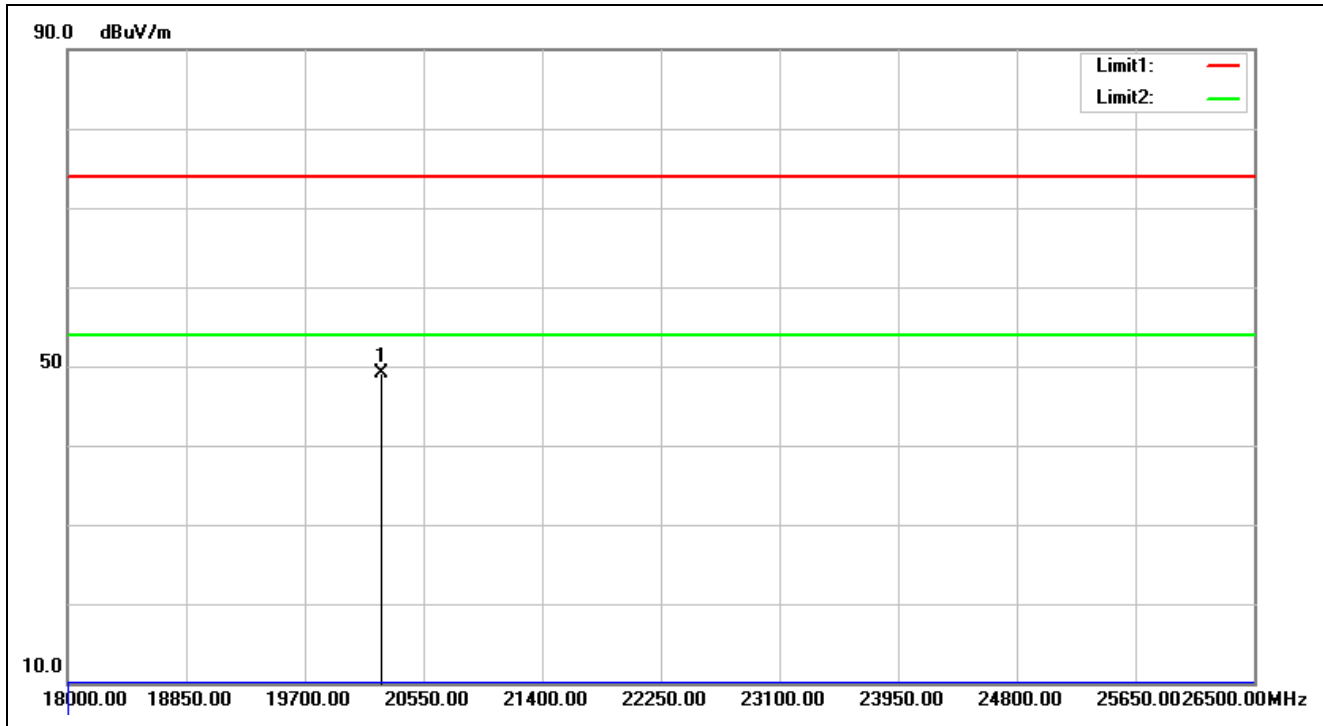
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:27:33
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	18391.000	28.86	19.30	48.16	74.00	-25.84	peak			



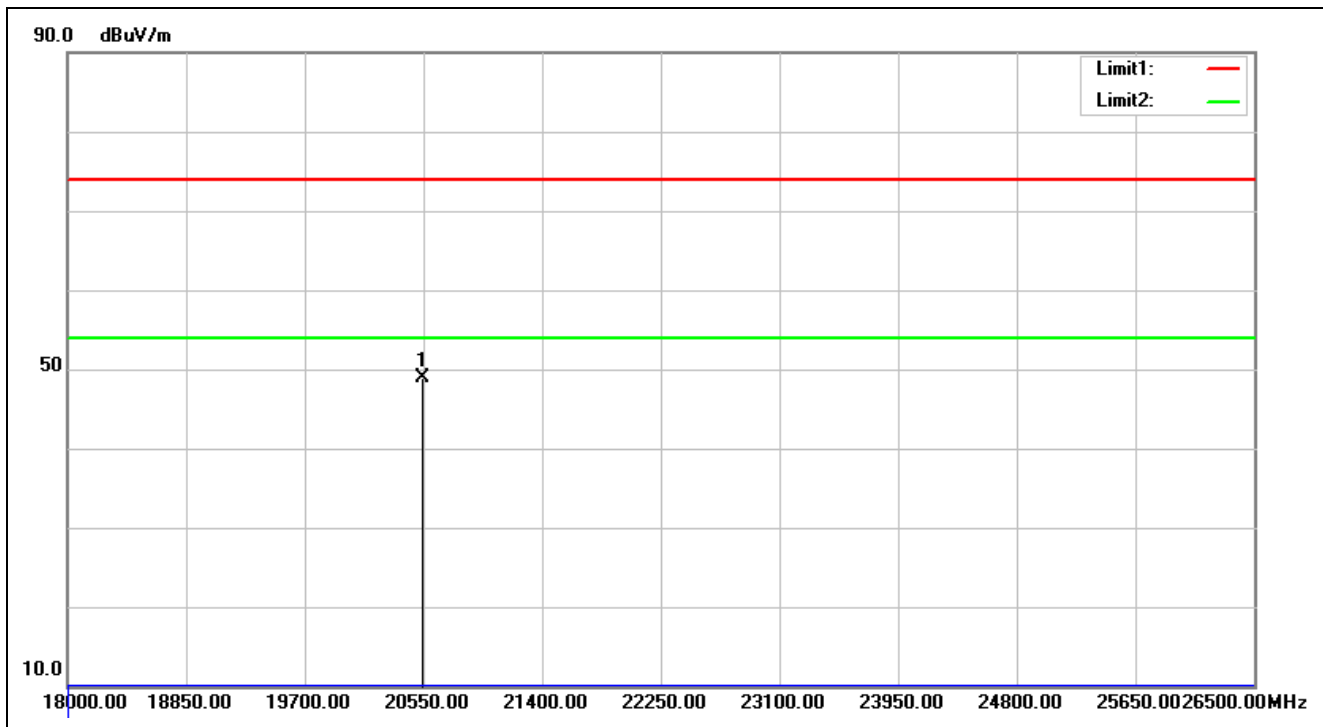
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:27:40
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	19615.000	29.55	18.24	47.79	74.00	-26.21	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 22:27:54
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:	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	20244.000	29.70	19.46	49.16	74.00	-24.84	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 22:28:02
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:	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	20541.500	29.87	18.95	48.82	74.00	-25.18	peak			

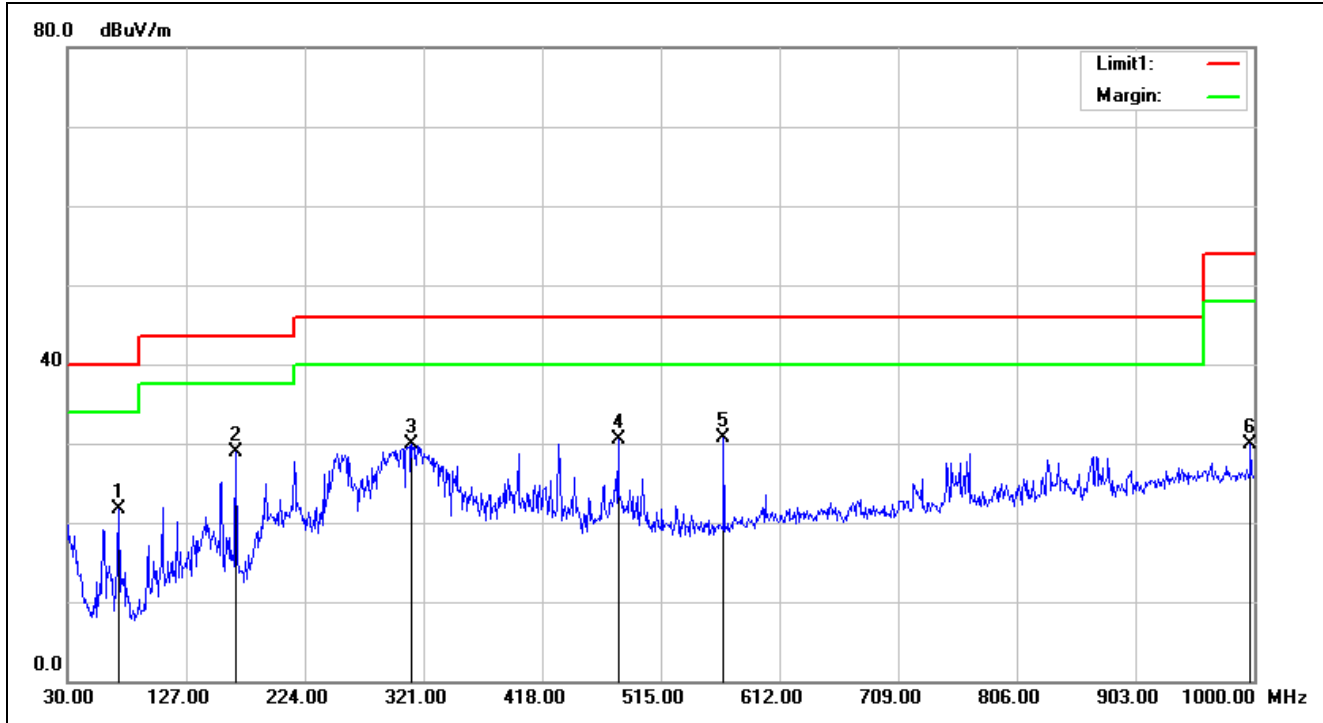
Spurious Emissions, TX Mode, 30M-1G



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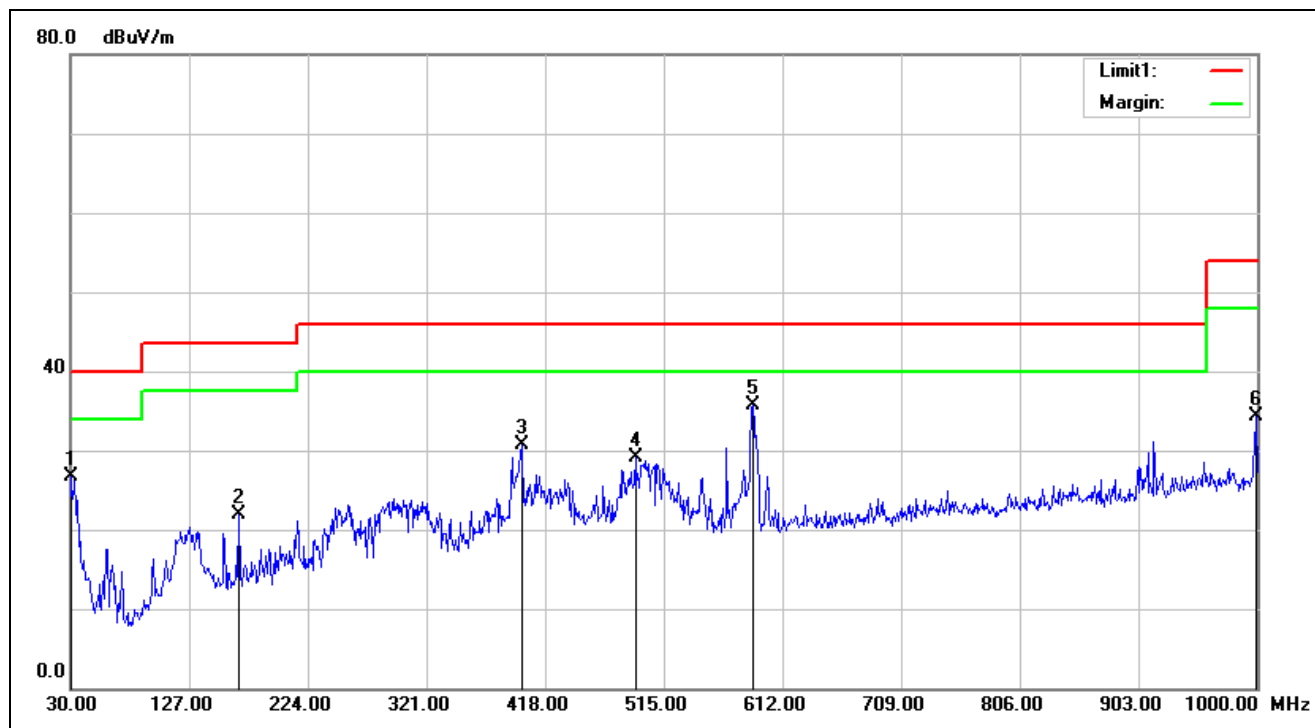
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Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 14:50:06
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	71.7099	-18.64	40.44	21.80	40.00	-18.20	QP	100	176	
2	167.7400	-14.60	43.52	28.92	43.50	-14.58	QP	100	192	
3	311.3000	-10.23	40.05	29.82	46.00	-16.18	QP	100	113	
4	480.0800	-7.59	38.05	30.46	46.00	-15.54	QP	100	205	
5	566.4100	-6.66	37.41	30.75	46.00	-15.25	QP	100	218	
6	997.0900	-0.03	29.90	29.87	54.00	-24.13	QP	100	54	

Spurious Emissions, RX Mode, 1-18G



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 14:51:10
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:	2440-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-5.85	32.52	26.67	40.00	-13.33	QP	100	258	
2	167.7400	-14.60	36.49	21.89	43.50	-21.61	QP	100	179	
3	398.6000	-8.70	39.37	30.67	46.00	-15.33	QP	100	221	
4	491.7200	-7.43	36.45	29.02	46.00	-16.98	QP	100	199	
5	587.7500	-6.23	41.87	35.64	46.00	-10.36	QP	100	258	
6	999.0300	0.00	34.24	34.24	54.00	-19.76	QP	100	296	

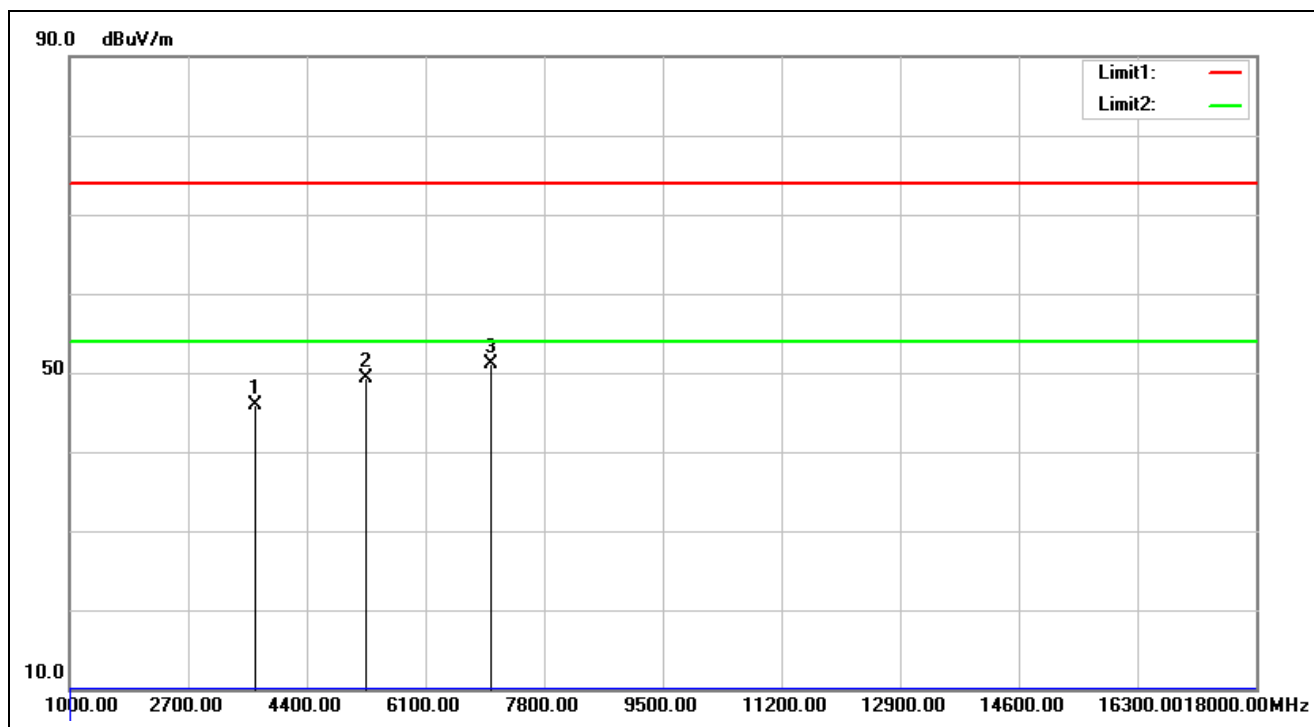
Spurious Emissions, RX Mode, 1-18G



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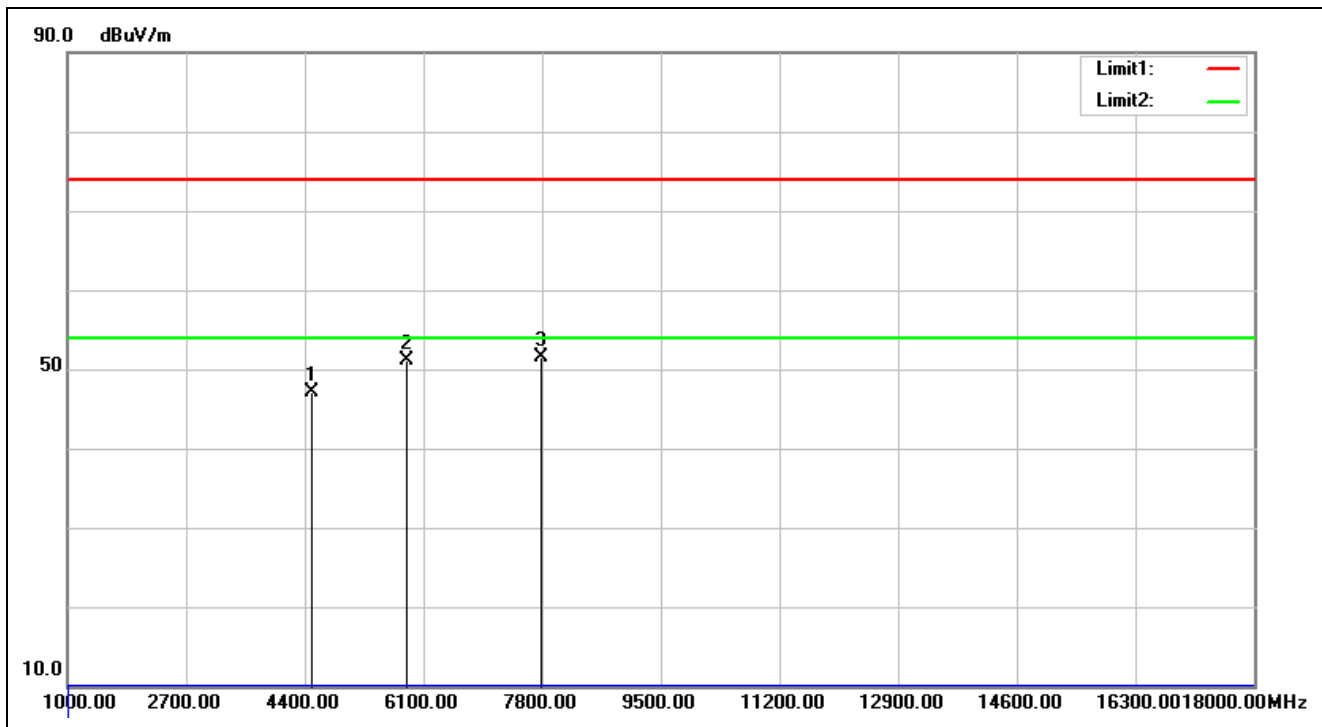
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Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:21:26
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	2402-RX		
Remark:			

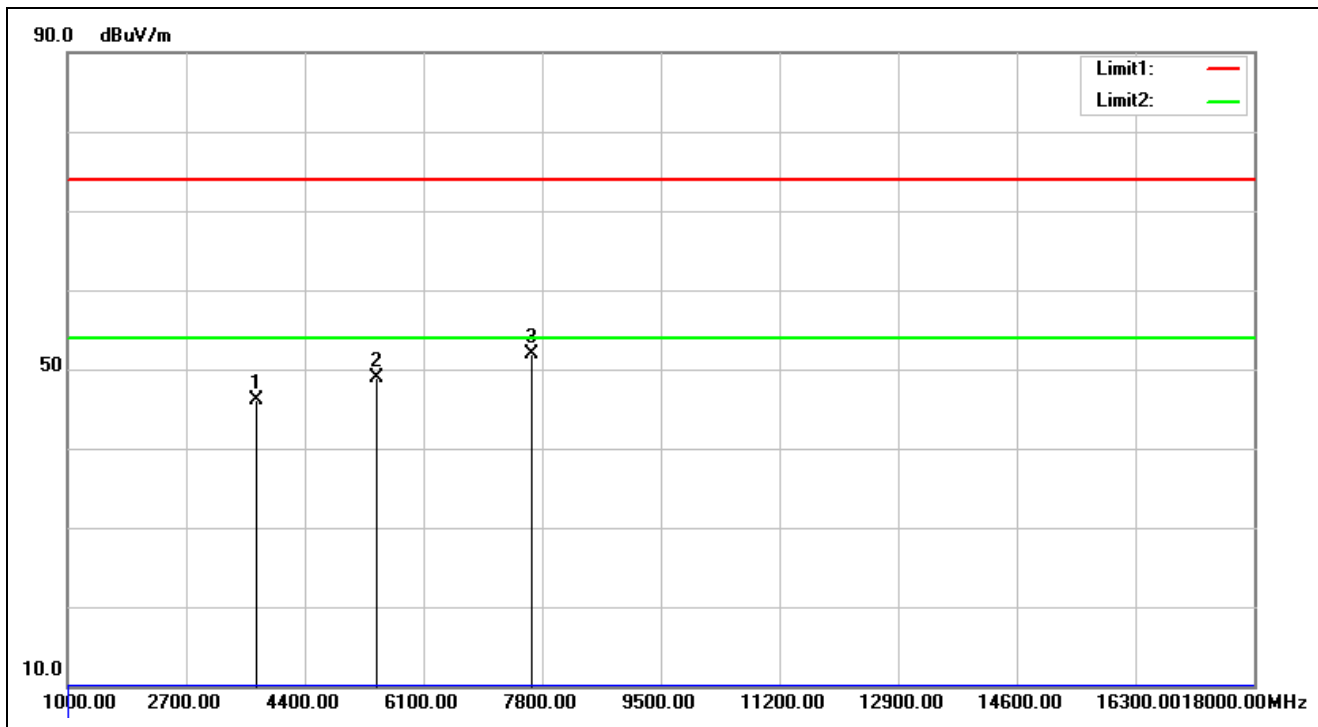
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3652.000	-5.42	51.35	45.93	74.00	-28.07	peak	100	77	
2	5250.000	-0.49	49.88	49.39	74.00	-24.61	peak	100	208	
3	7035.000	5.27	45.93	51.20	74.00	-22.80	peak	100	65	

Spurious Emissions, RX Mode, 1-18G



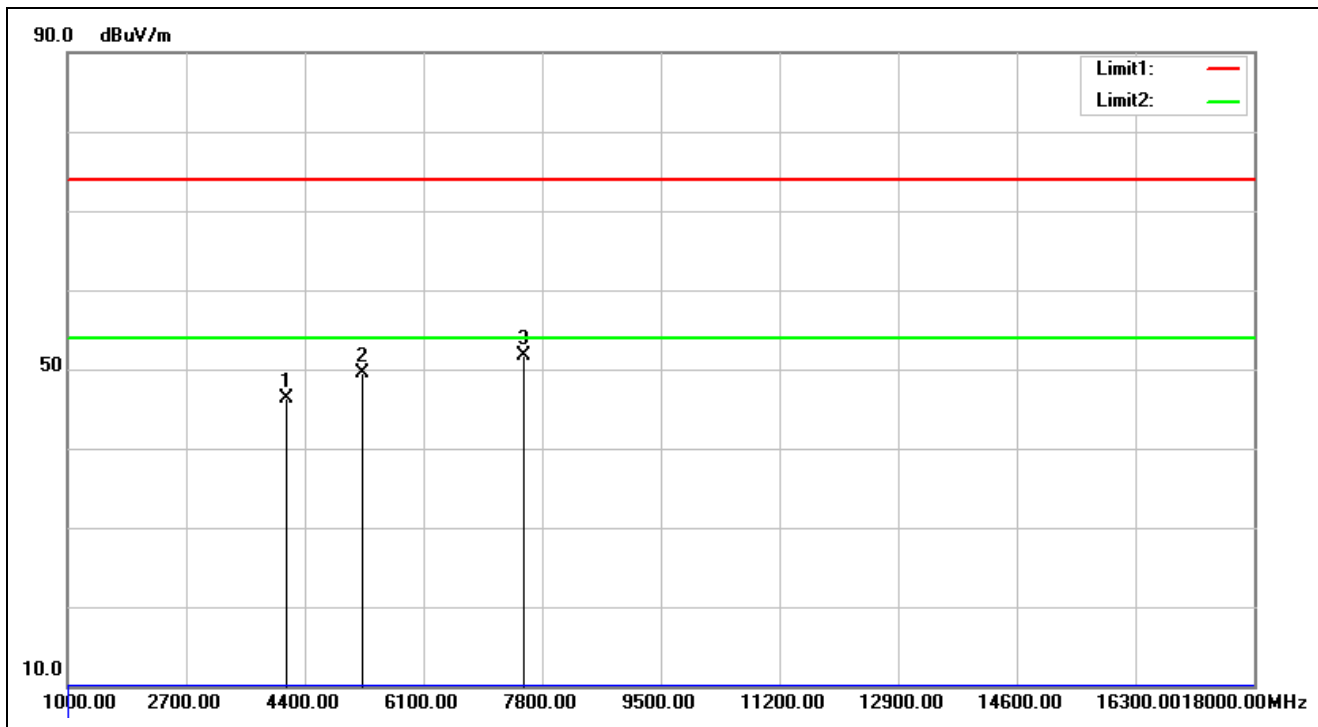
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:22:29
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	4502.000	-3.02	50.14	47.12	74.00	-26.88	peak	100	219	
2	5862.000	3.22	47.95	51.17	74.00	-22.83	peak	100	139	
3	7783.000	6.59	44.88	51.47	74.00	-22.53	peak	100	343	



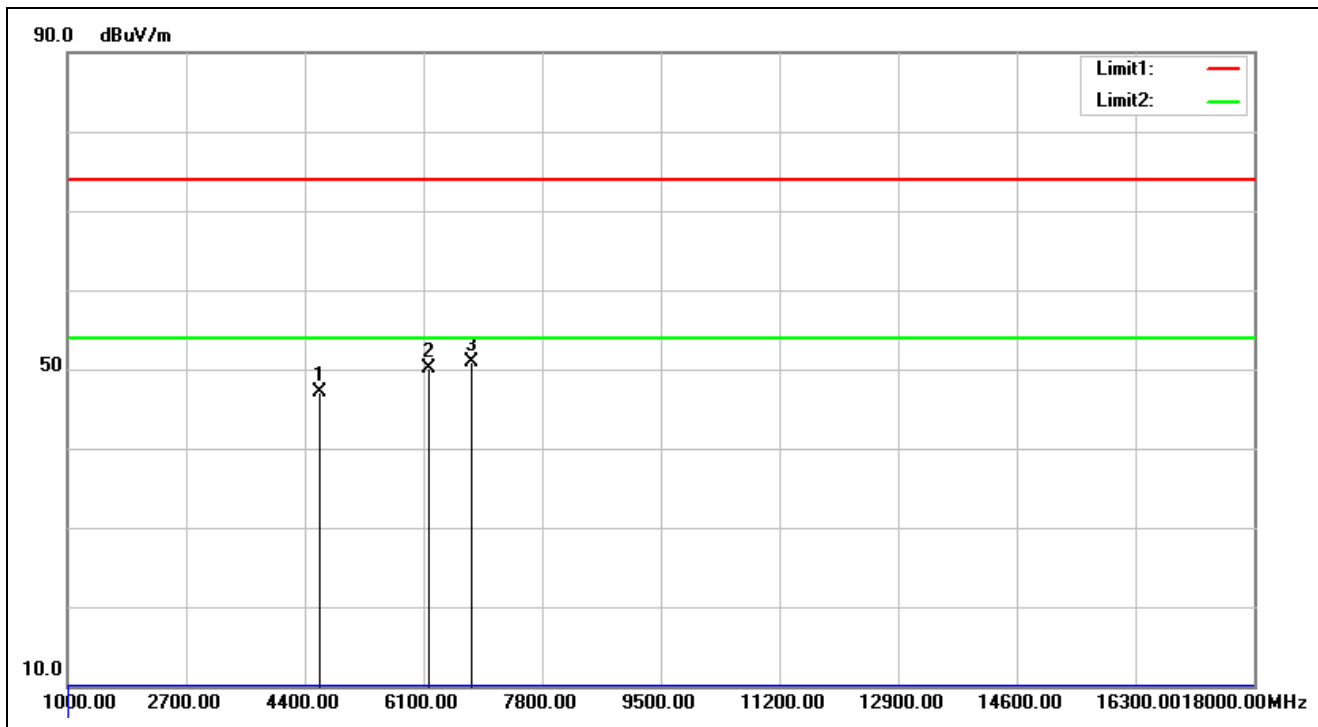
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/4/1 19:23:56
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	3703.000	-5.37	51.54	46.17	74.00	-27.83	peak	100	343	
2	5437.000	0.50	48.43	48.93	74.00	-25.07	peak	100	191	
3	7647.000	6.60	45.29	51.89	74.00	-22.11	peak	100	163	



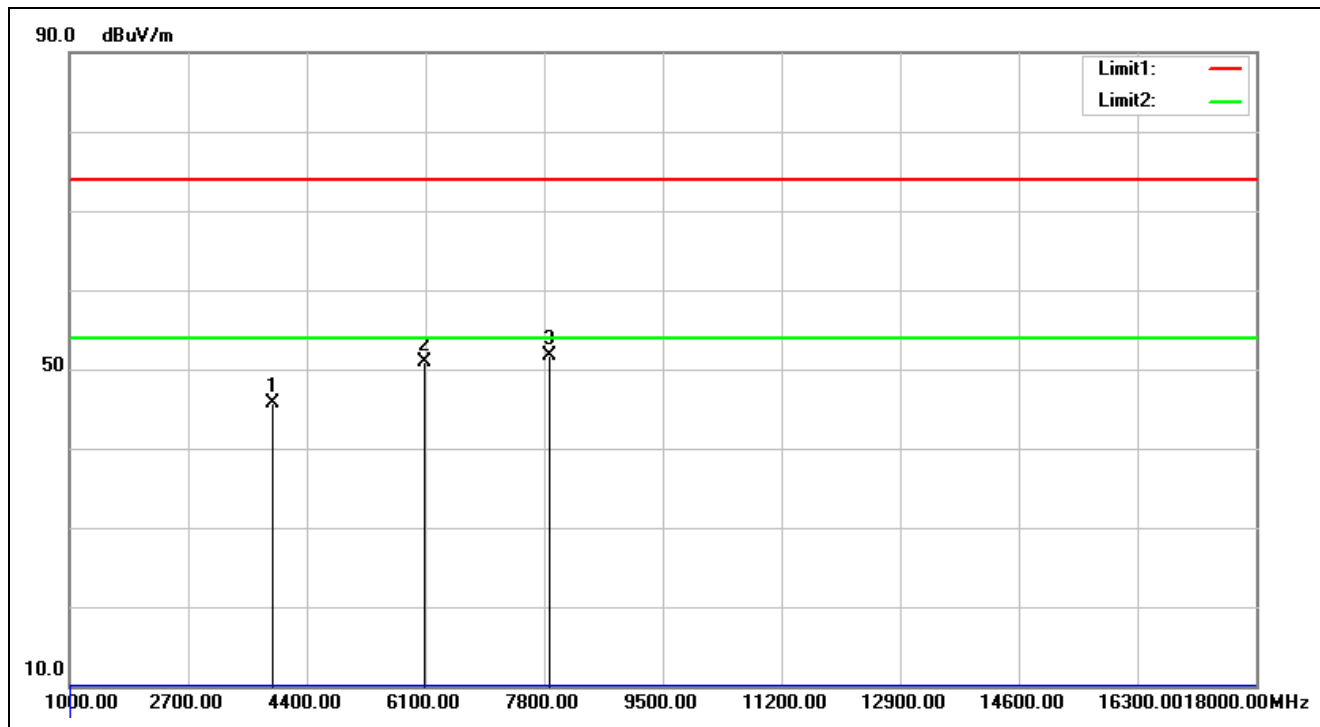
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/4/1 19:24:59
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.6(°C)/61%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	4145.000	-4.49	50.77	46.28	74.00	-27.72	peak	100	89	
2	5216.000	-0.66	50.21	49.55	74.00	-24.45	peak	100	258	
3	7528.000	6.62	45.04	51.66	74.00	-22.34	peak	100	302	



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 19:26:41
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:	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	4604.000	-2.77	49.86	47.09	74.00	-26.91	peak	100	40	
2	6185.000	4.83	45.18	50.01	74.00	-23.99	peak	100	201	
3	6797.000	5.52	45.45	50.97	74.00	-23.03	peak	100	335	



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 19:27:44
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:	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	3907.000	-5.17	50.94	45.77	74.00	-28.23	peak	100	12	
2	6083.000	4.45	46.37	50.82	74.00	-23.18	peak	100	175	
3	7885.000	6.58	45.13	51.71	74.00	-22.29	peak	100	75	

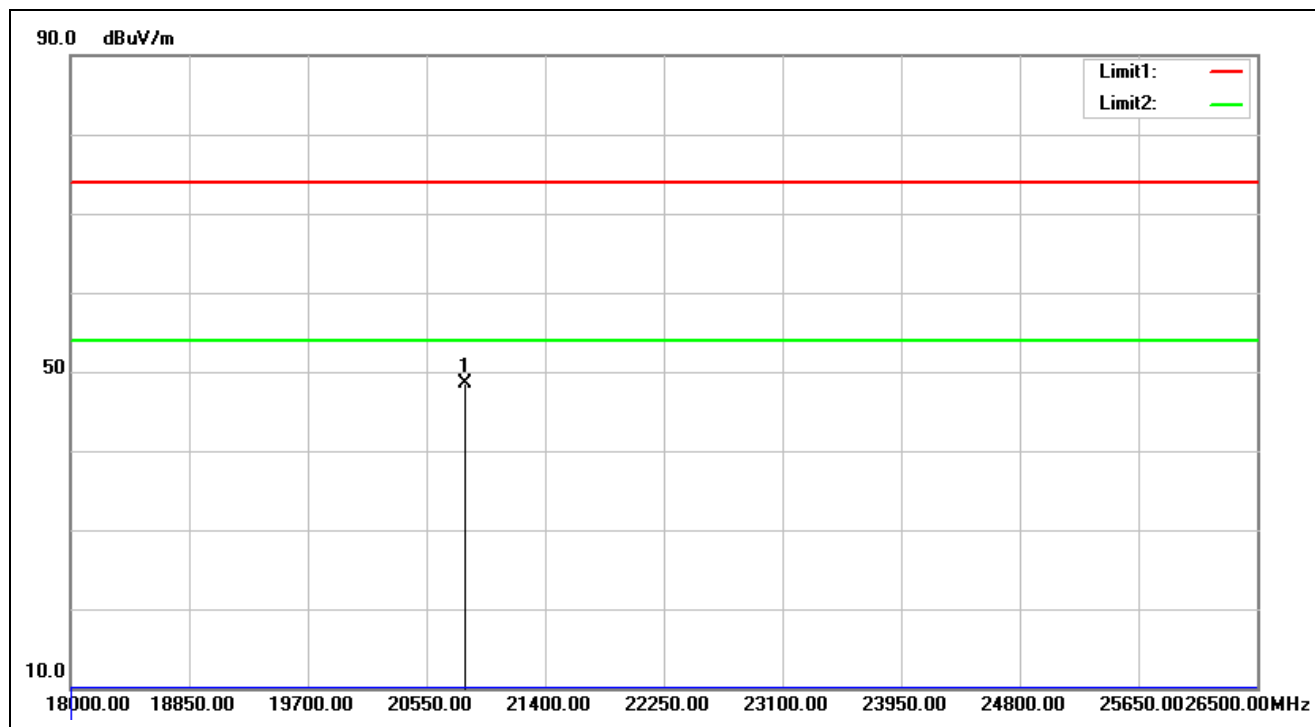
Spurious Emissions, RX Mode, 18-26G



TUV Taiwan

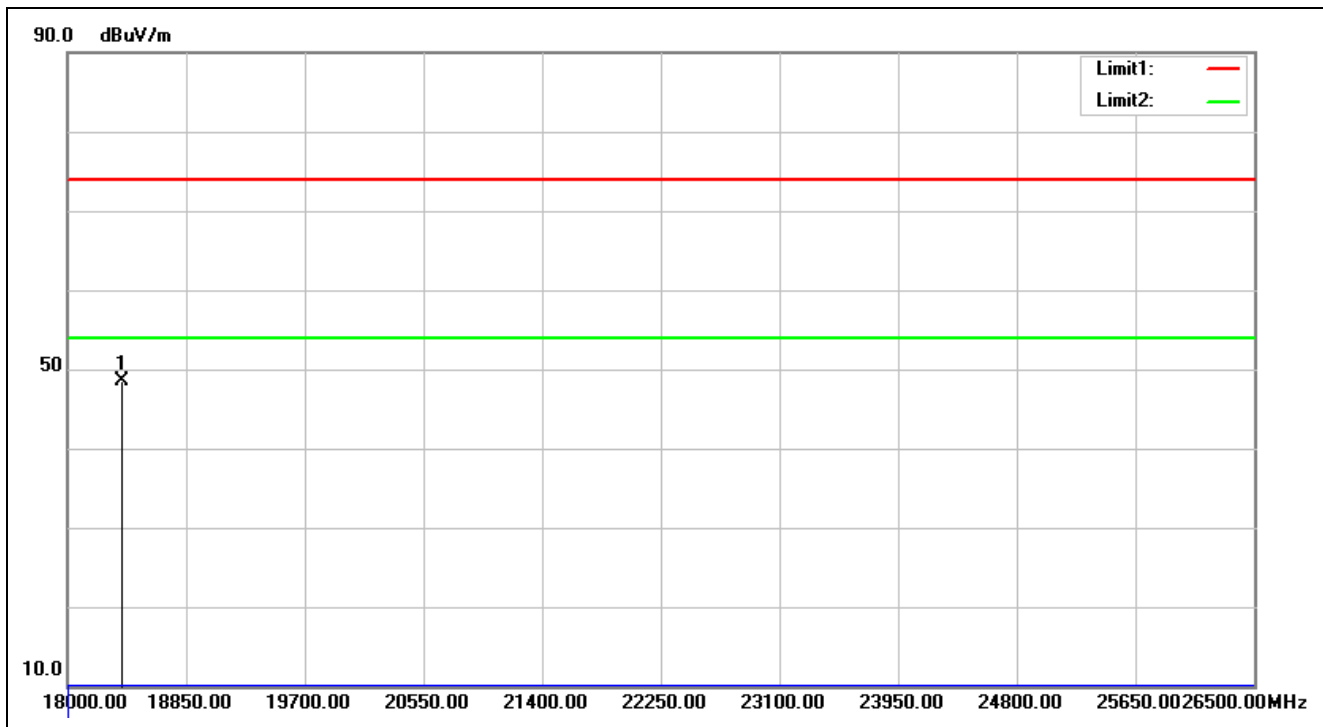
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



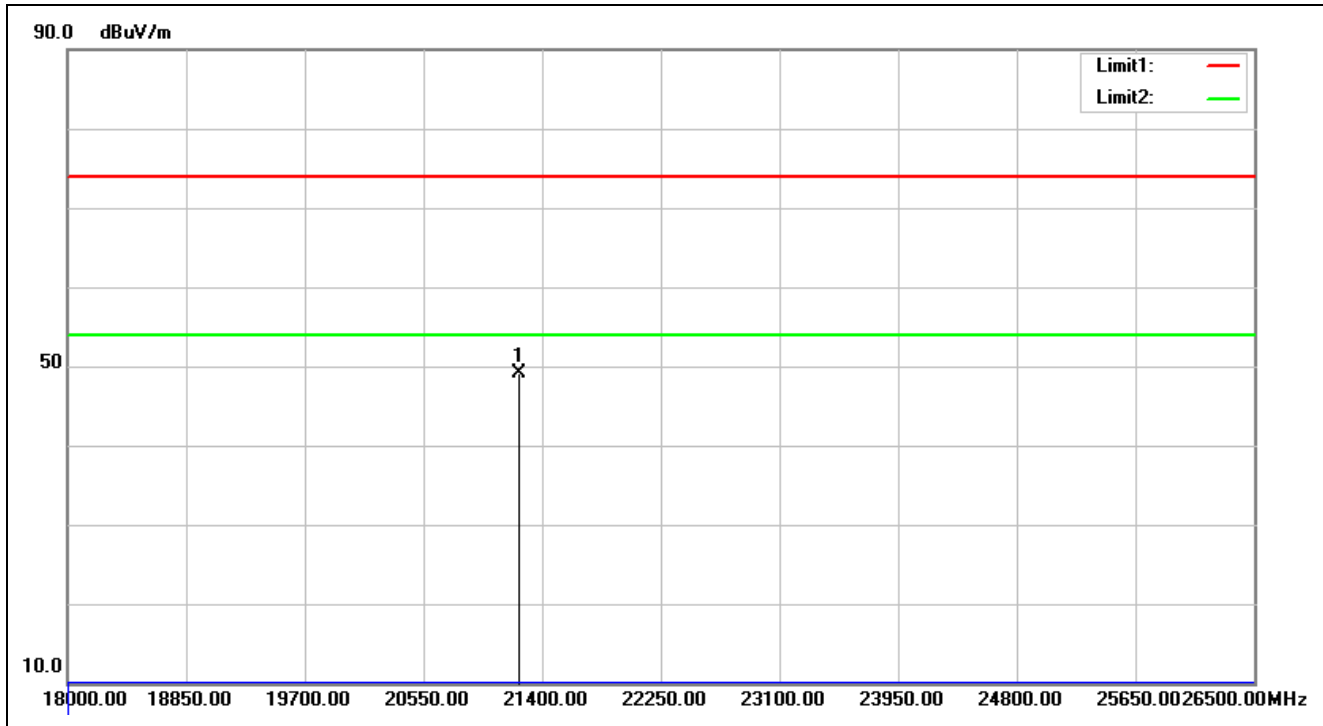
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:30:18
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	20822.000	29.94	18.61	48.55	74.00	-25.45	peak			



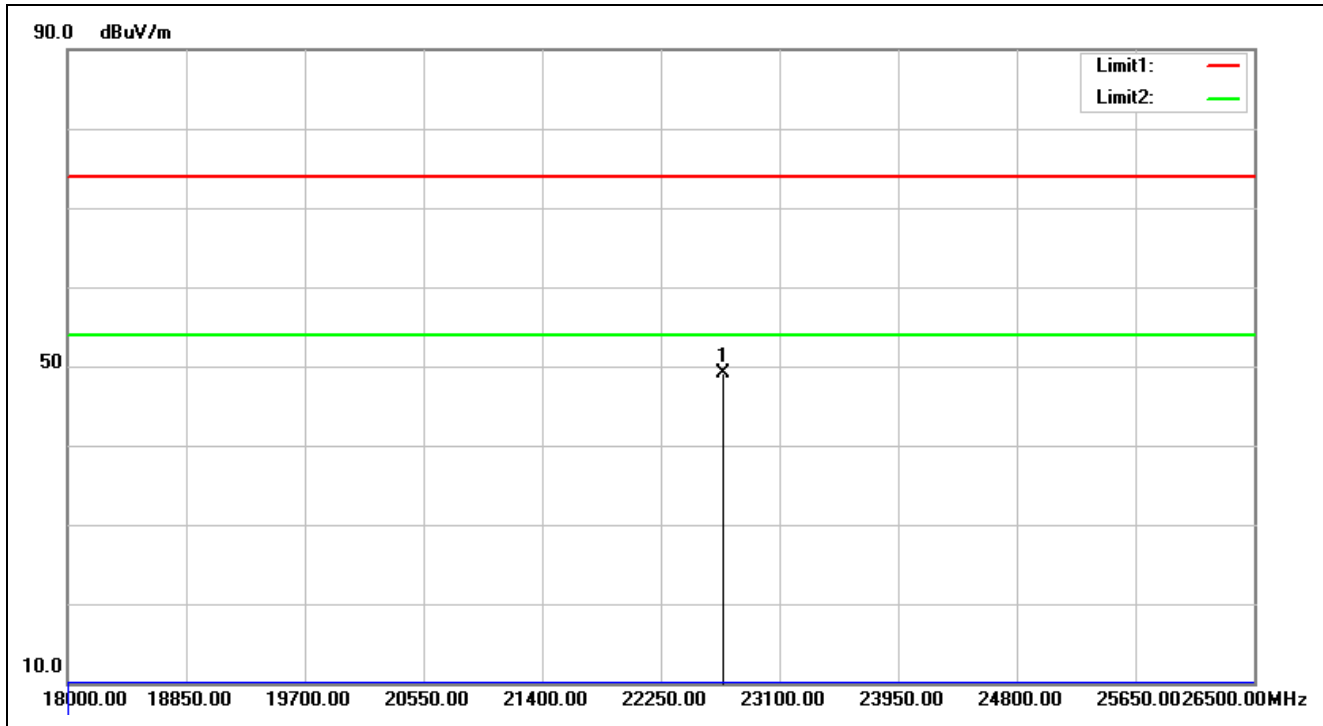
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:30:24
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	18391.000	28.86	19.59	48.45	74.00	-25.55	peak			



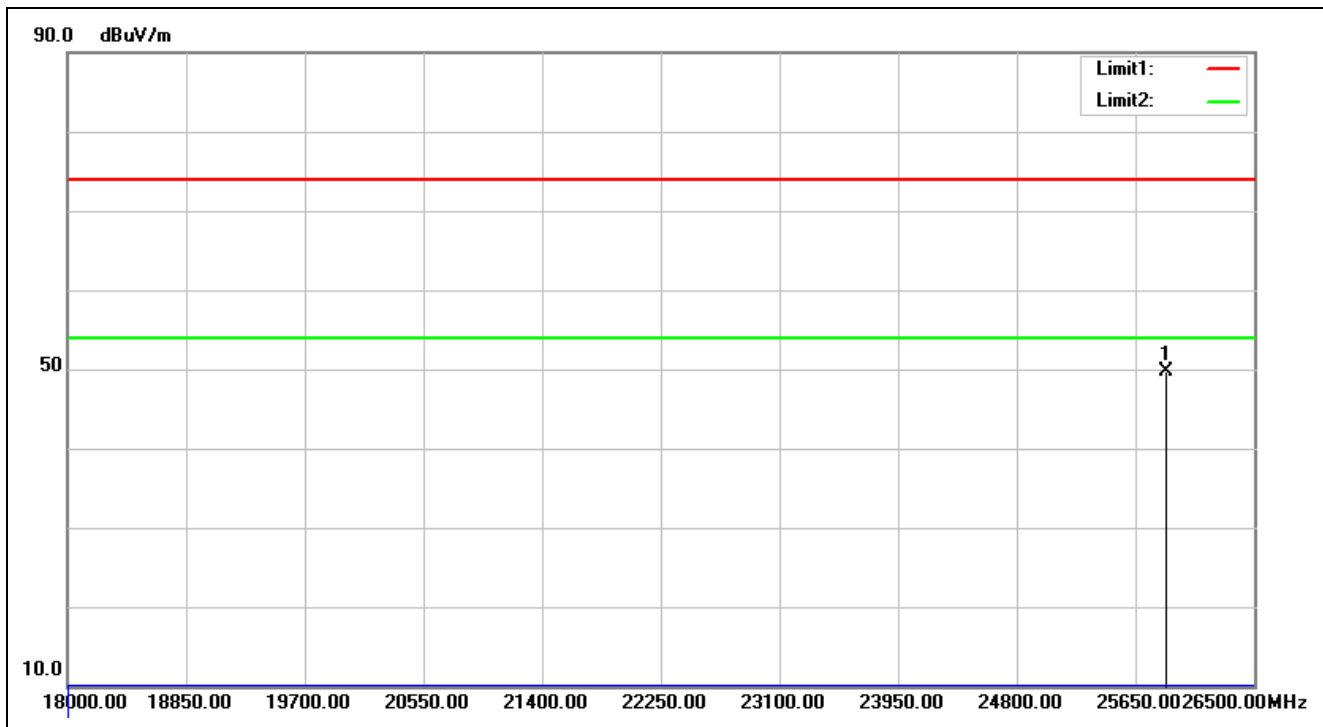
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/29 22:30:40
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	21230.000	29.76	19.32	49.08	74.00	-24.92	peak			



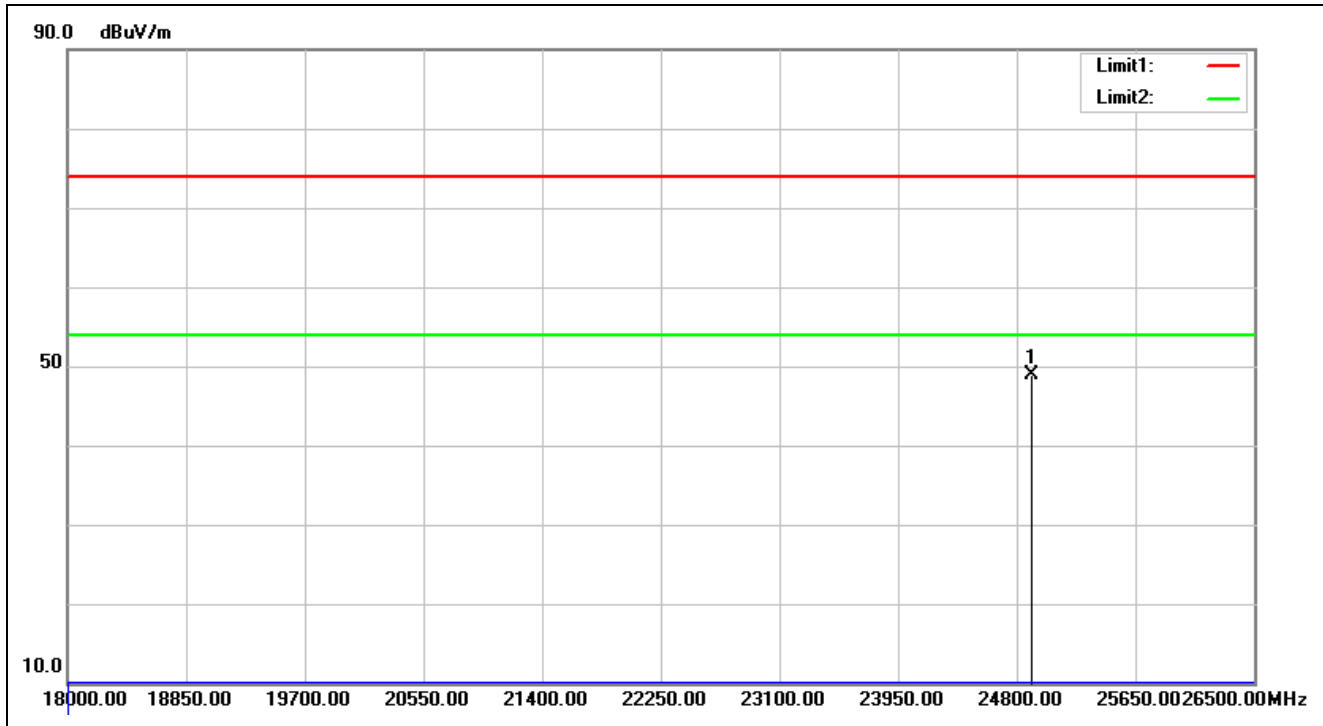
Service No.:	114047336-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/29 22:30:47
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19(°C)/55%
Model No.:	BM64SPKabcC1 ClassI	Test Engineer:	George Yang
Test Mode:	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	22700.500	30.04	18.99	49.03	74.00	-24.97	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 22:30:58
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:	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	25871.000	32.28	17.49	49.77	74.00	-24.23	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 22:31:05
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:	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	24910.500	31.10	17.76	48.86	74.00	-25.14	peak			

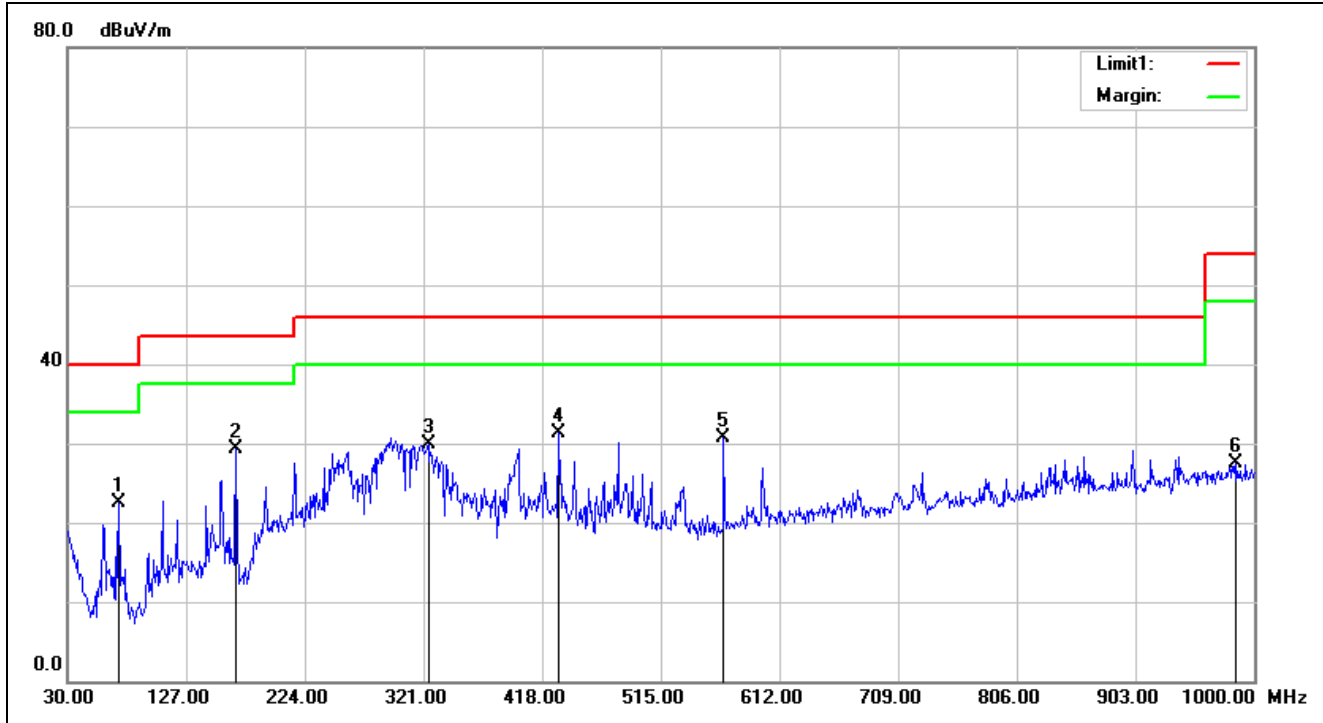
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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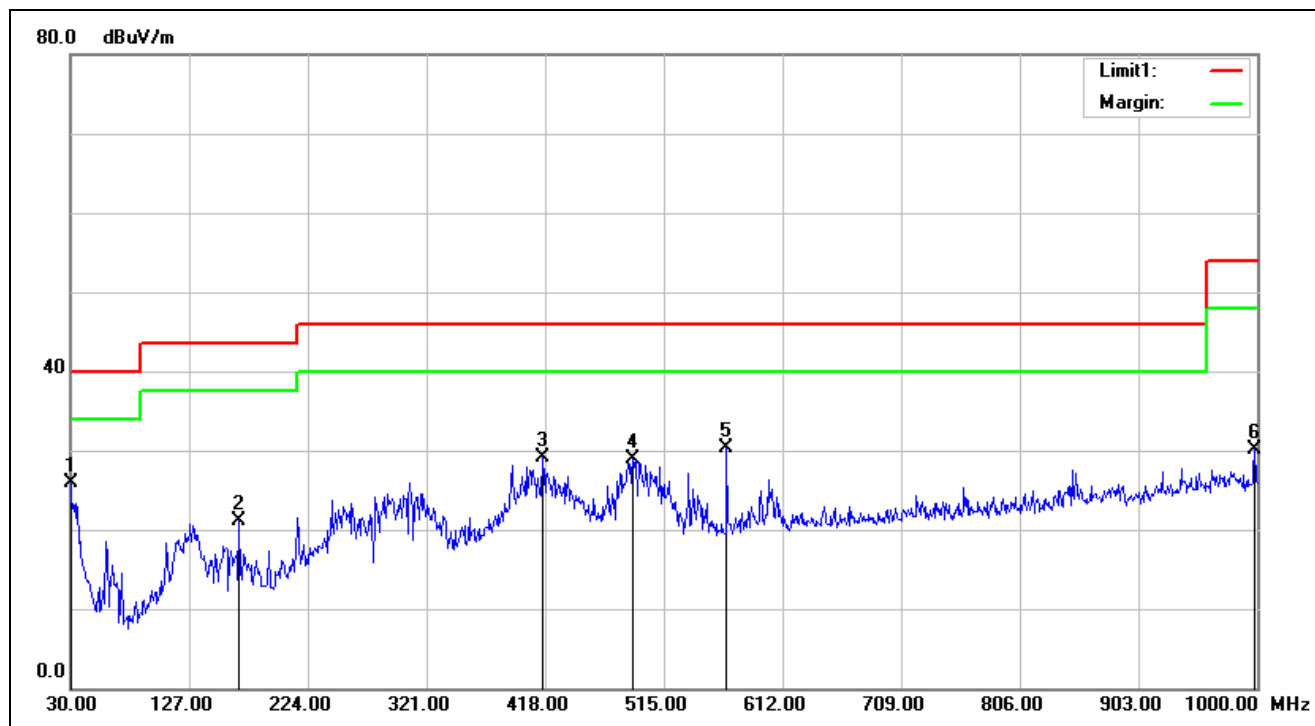
Tel:+886-2172-7000 fax:+886-2528-0018



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 14:52:53
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:	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	71.7099	-18.64	41.05	22.41	40.00	-17.59	QP	100	354	
2	167.7400	-14.60	43.89	29.29	43.50	-14.21	QP	100	195	
3	324.8800	-9.93	39.91	29.98	46.00	-16.02	QP	100	112	
4	431.5800	-8.27	39.59	31.32	46.00	-14.68	QP	100	30	
5	566.4100	-6.66	37.33	30.67	46.00	-15.33	QP	100	213	
6	985.4500	-0.15	27.66	27.51	54.00	-26.49	QP	100	99	

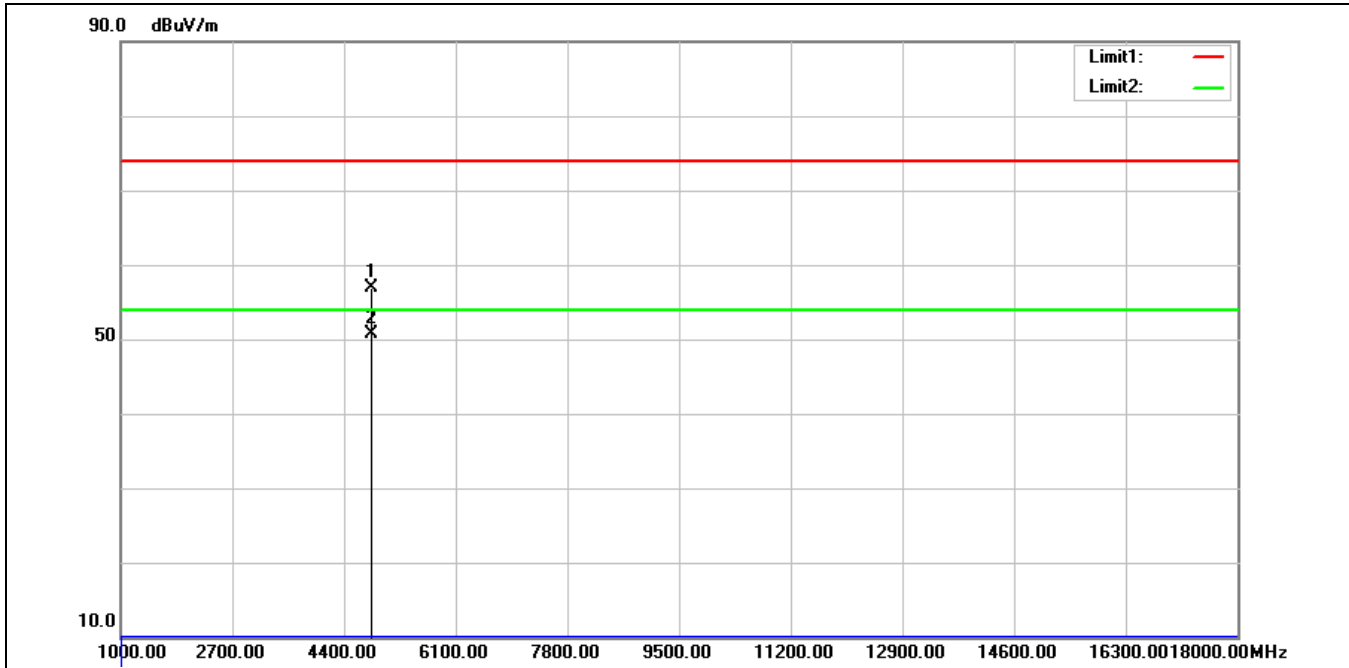
Spurious Emissions, Mains, 150kHz - 30MHz



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 14:53:57
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:	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	-5.85	31.83	25.98	40.00	-14.02	QP	100	358	
2	167.7400	-14.60	35.67	21.07	43.50	-22.43	QP	100	67	
3	416.0600	-8.47	37.51	29.04	46.00	-16.96	QP	100	195	
4	489.7800	-7.44	36.40	28.96	46.00	-17.04	QP	100	195	
5	566.4100	-6.66	37.02	30.36	46.00	-15.64	QP	100	147	
6	998.0600	-0.01	30.20	30.19	54.00	-23.81	QP	100	283	

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

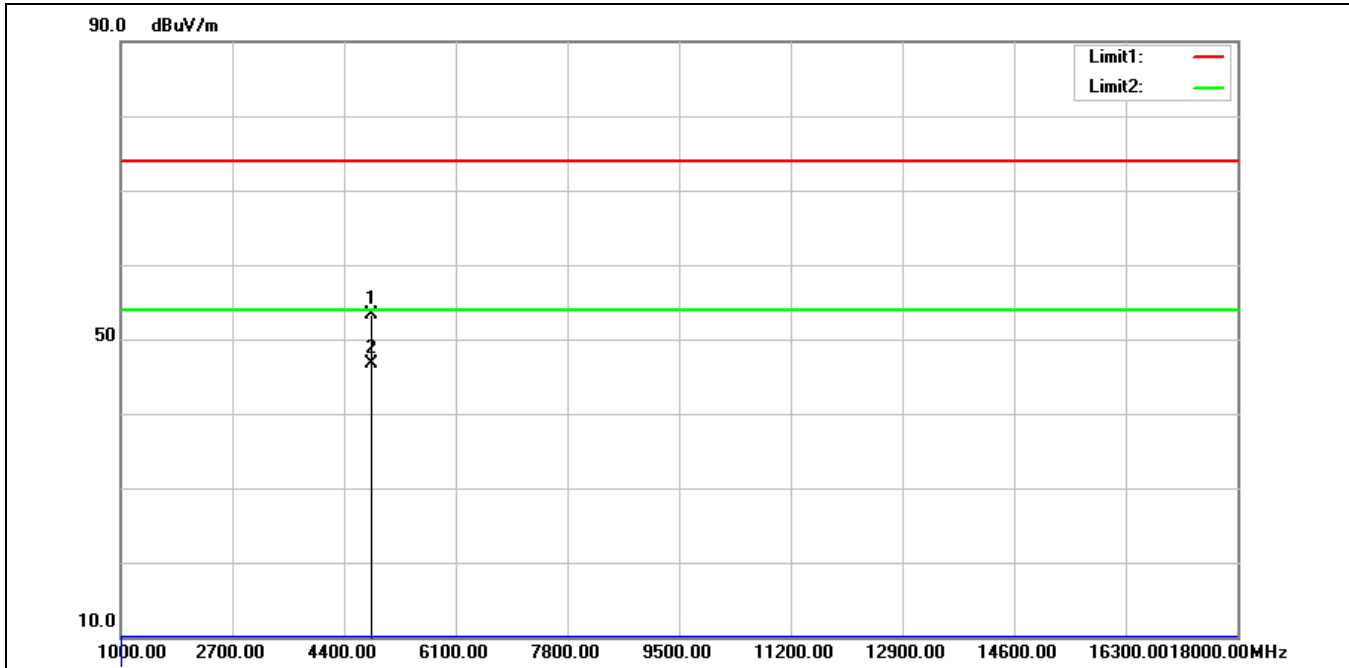
Test Engineer: Sam Su

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 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

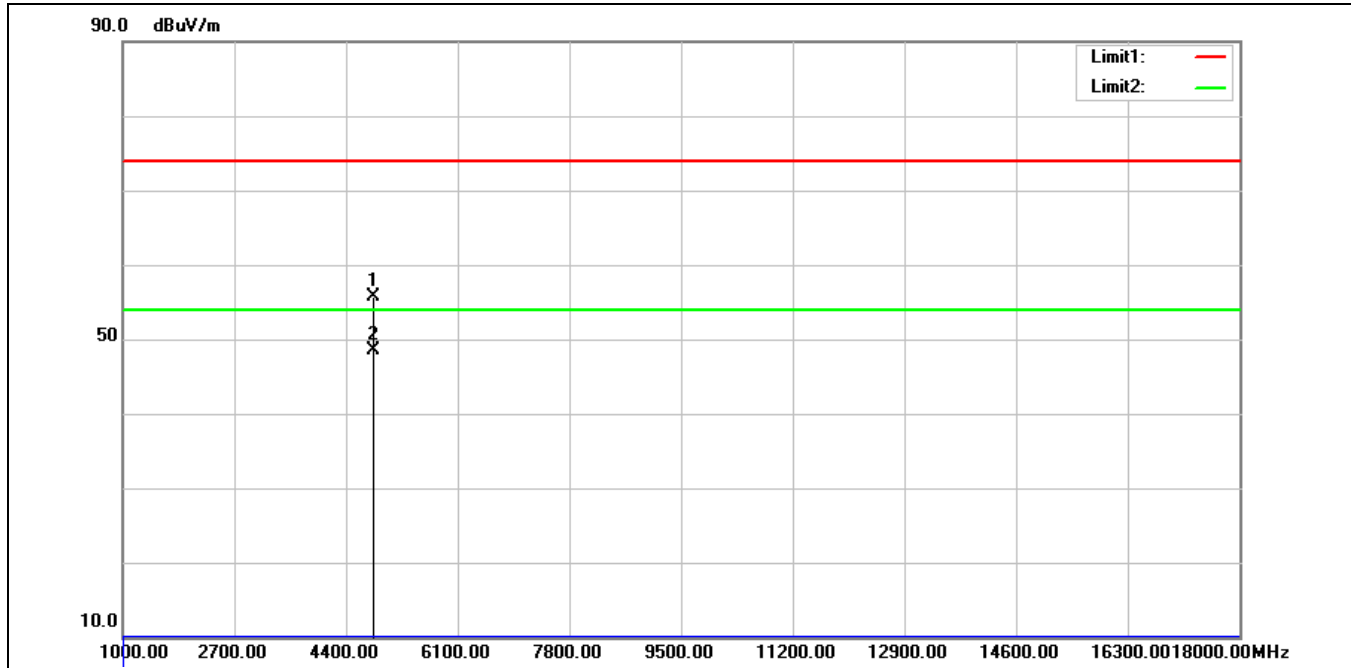
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.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	

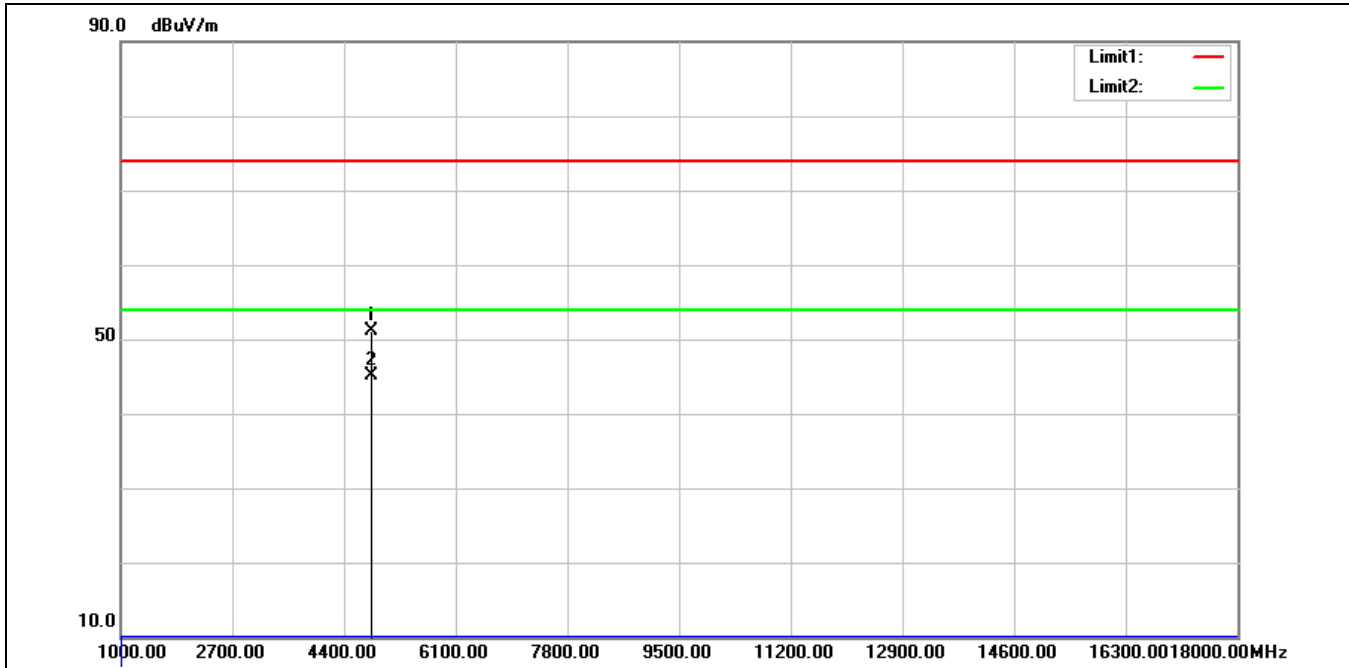


Service No.: 20160106(BM64)
Test Standard: FCC Above 1G PEAK
Test item: Radiation Emission
Applicant: Microchip
Product: BT module
Model No.: BM64SPKabcC1 ClassI

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

Test Mode: 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

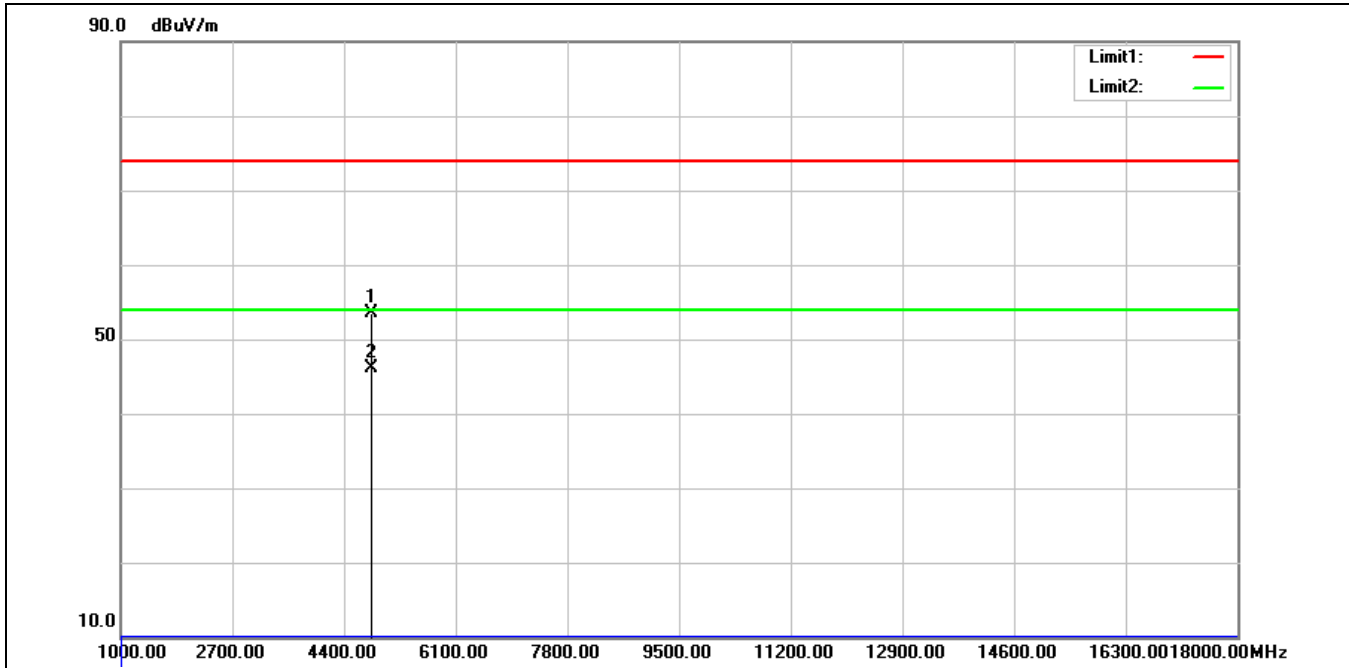
Test Engineer: Sam Su

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

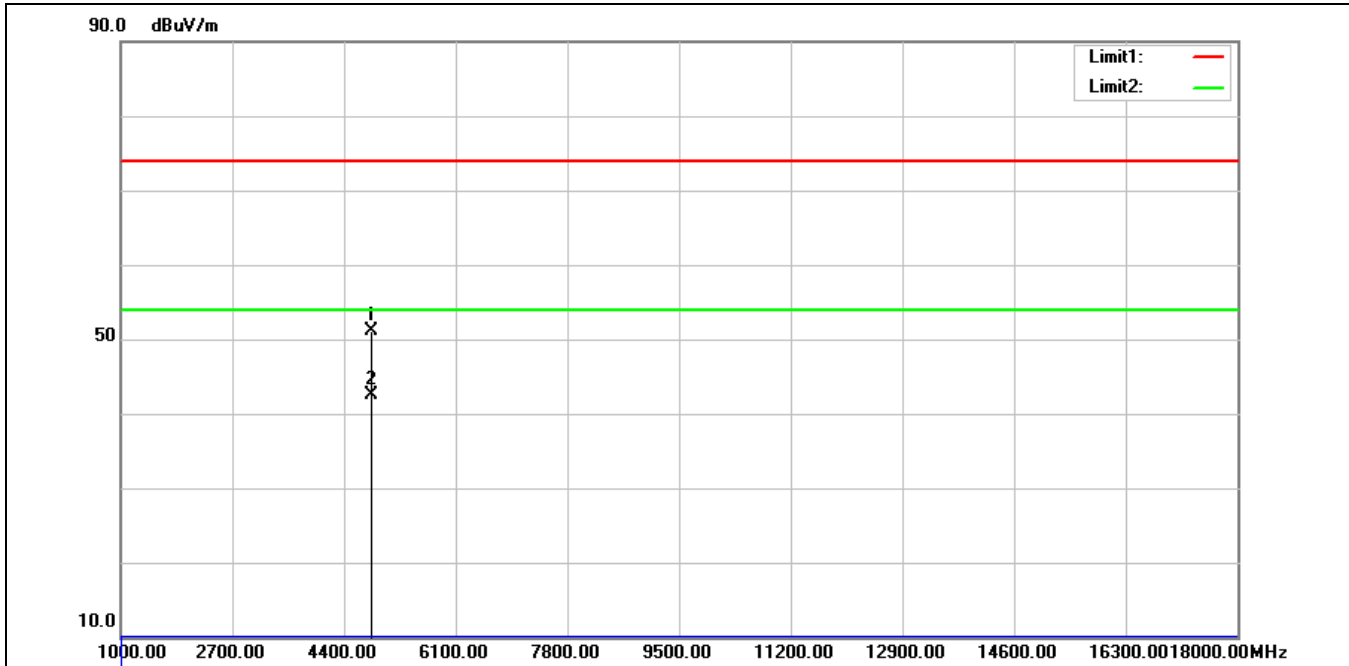
Test Engineer: Sam Su

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

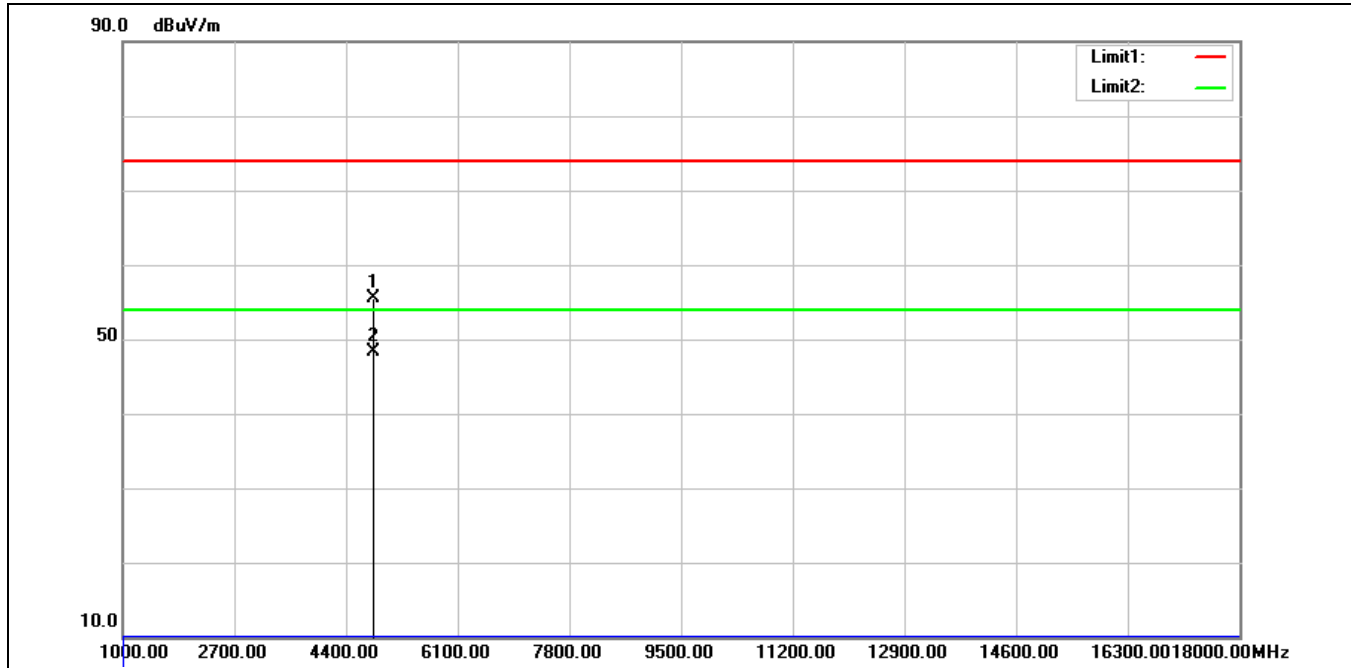
Test Engineer: Sam Su

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

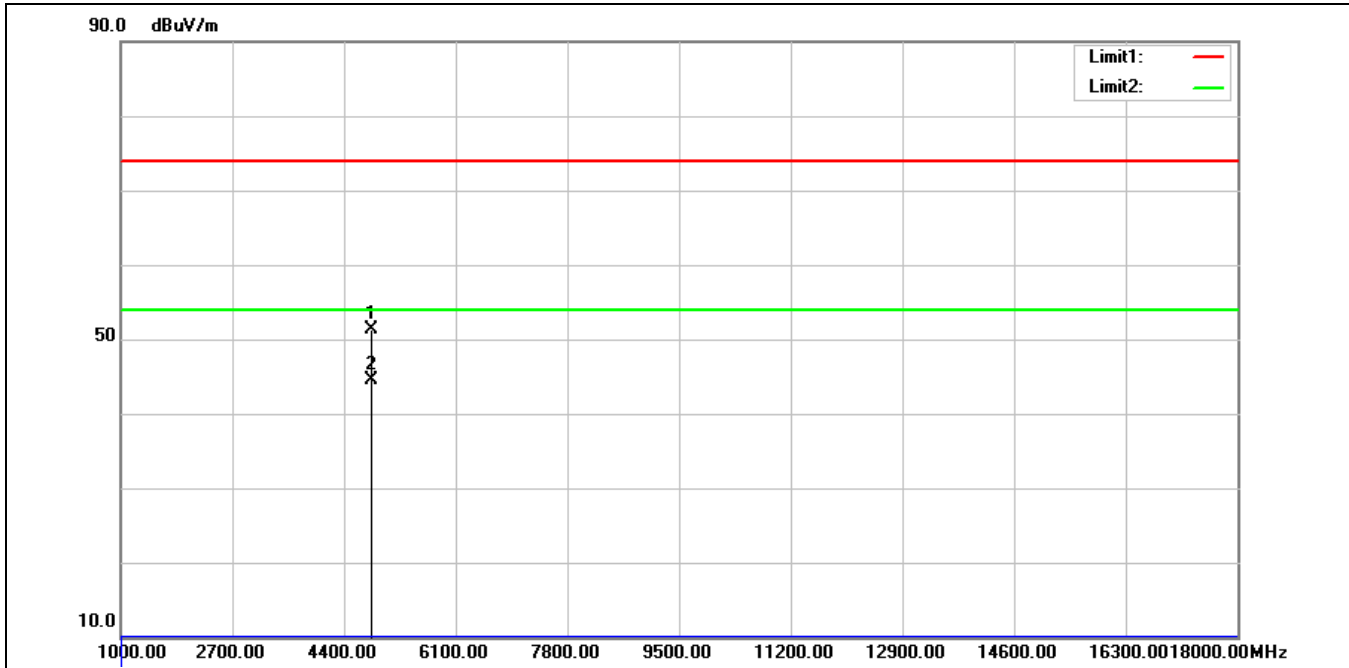
Test Engineer: Sam Su

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

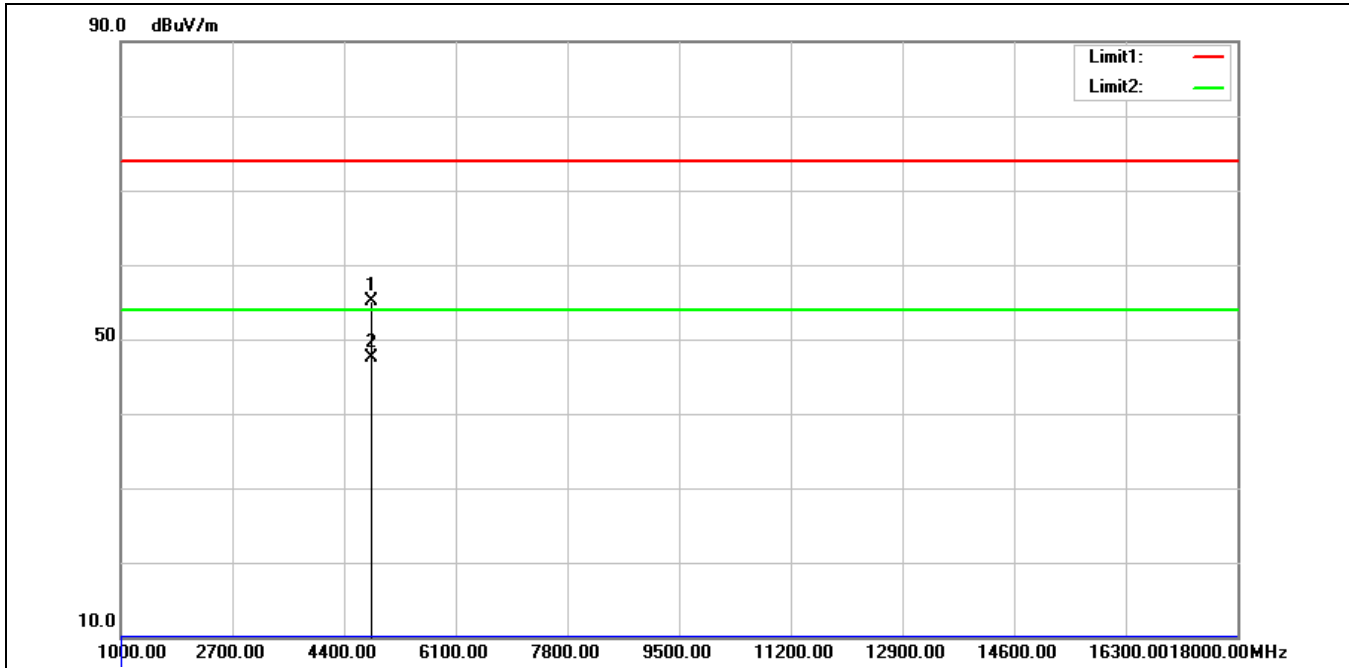
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.7

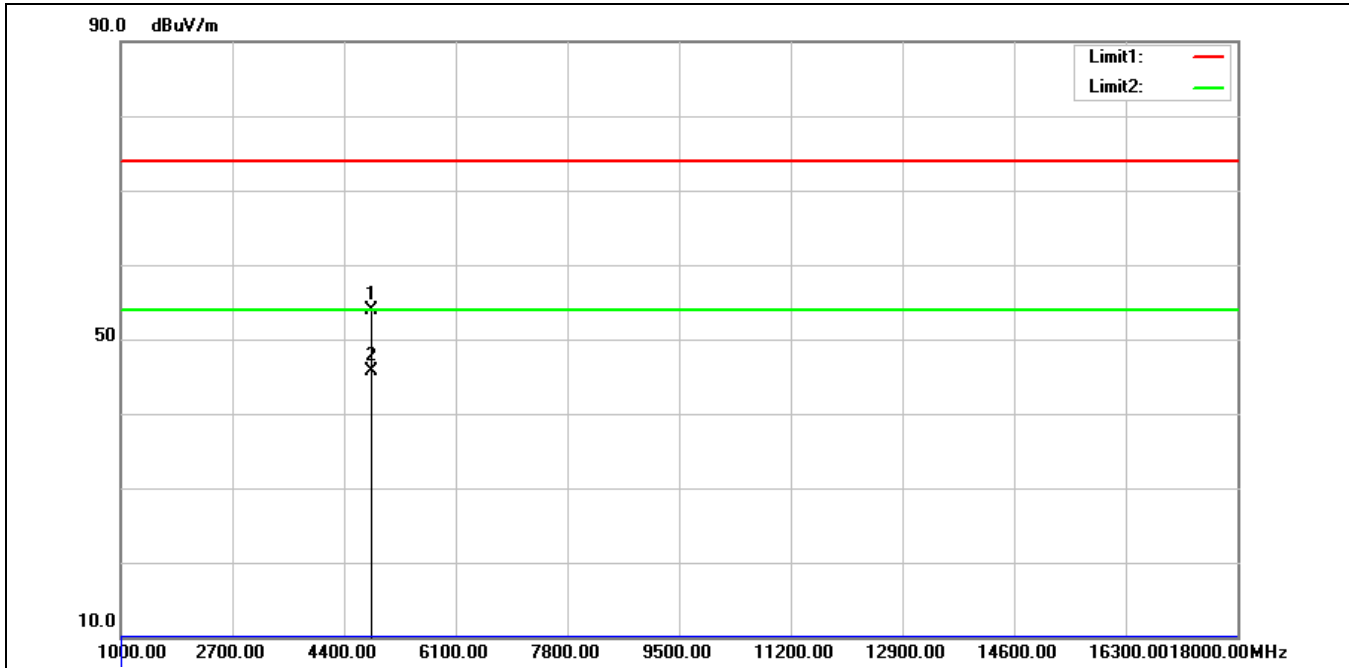
新聿/希華

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 Distance: 3m	
Test Standard: FCC Above 1G PEAK		Ant. Polarization: Horizontal	
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			
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	

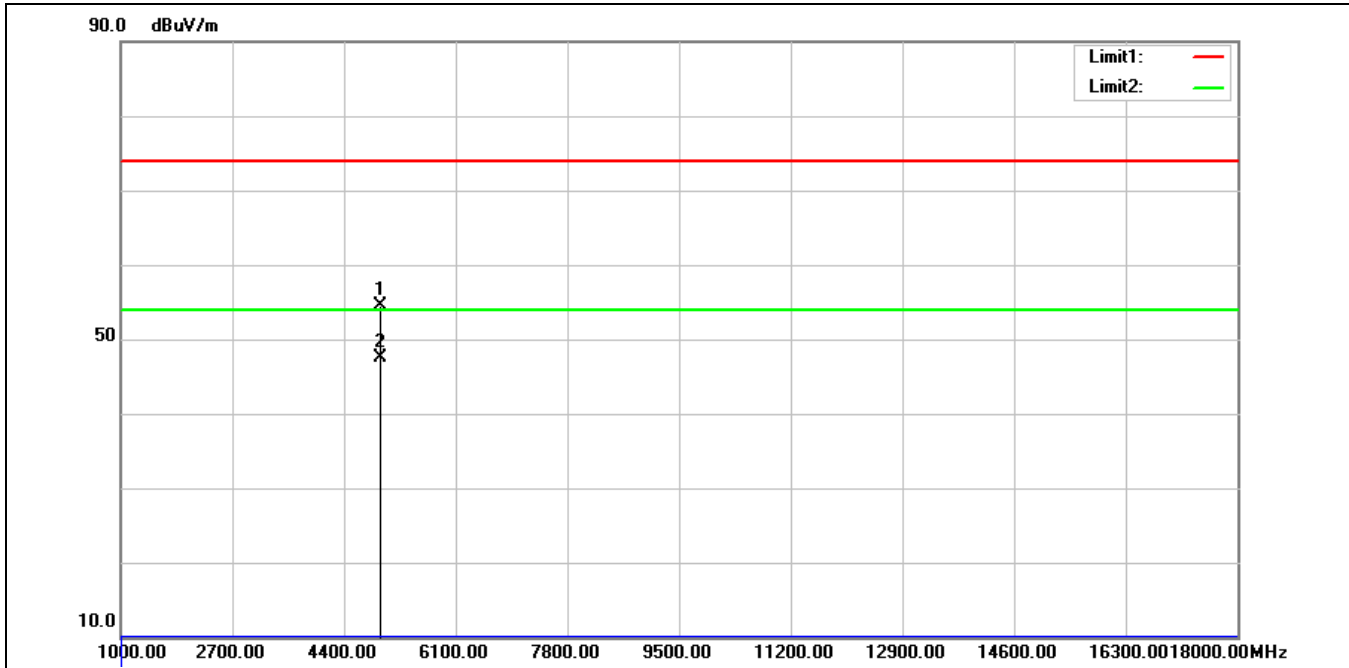


Service No.: 20160106(BM64)
Test Standard: FCC Above 1G PEAK
Test item: Radiation Emission
Applicant: Microchip
Product: BT module
Model No.: BM64SPKabcC1 ClassI

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

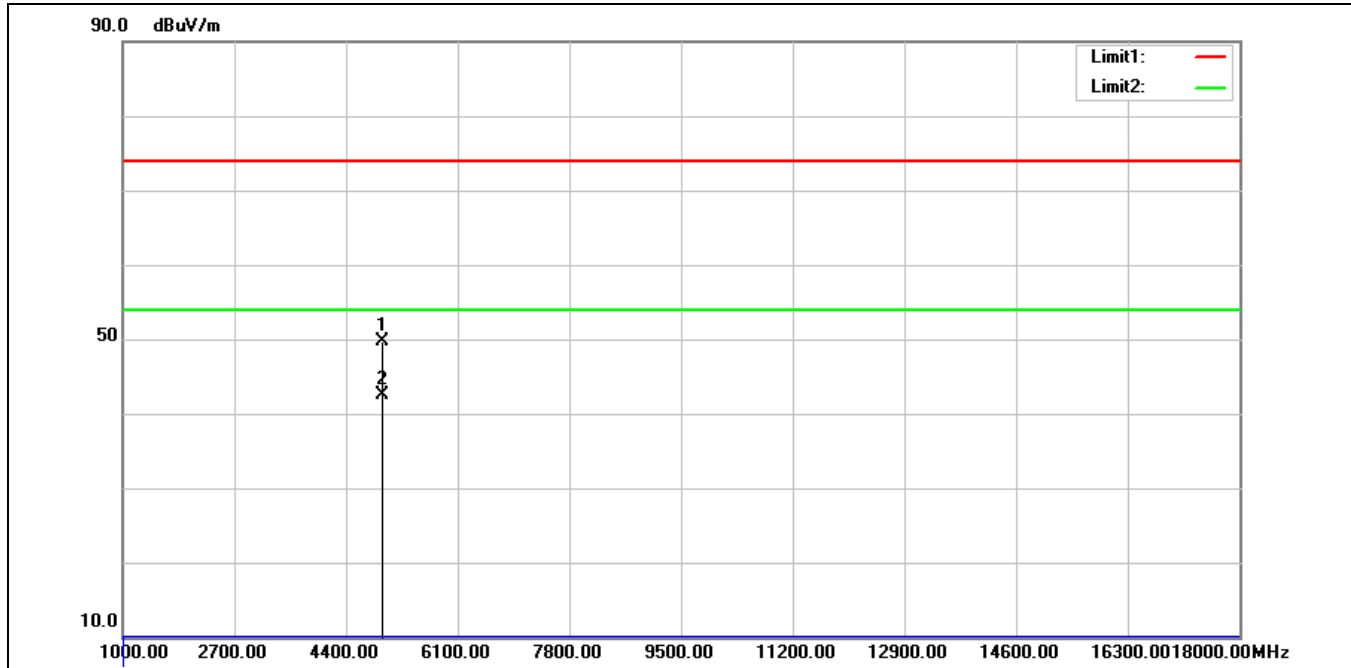
Test Engineer: Sam Su

Test Mode: 1DH5-2480-TX

Remark: Sample No.4

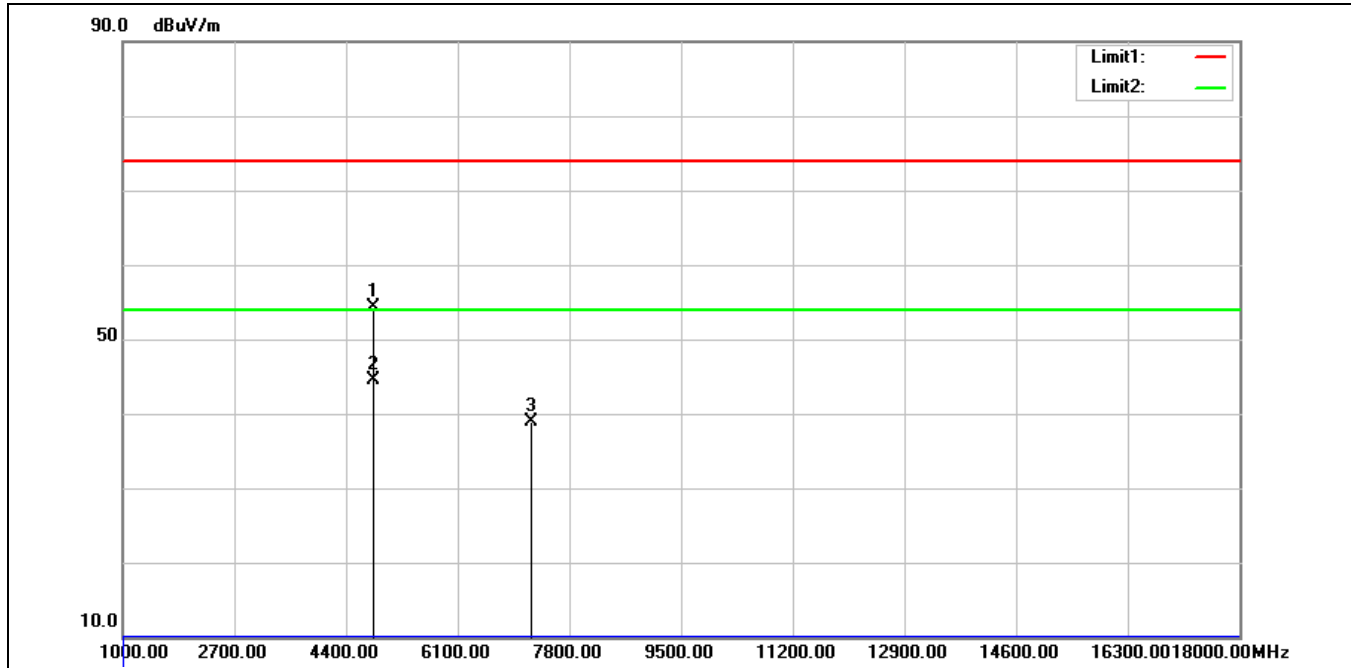
Power level -1 高創/嘉碩

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 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: 1DH5-2480-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

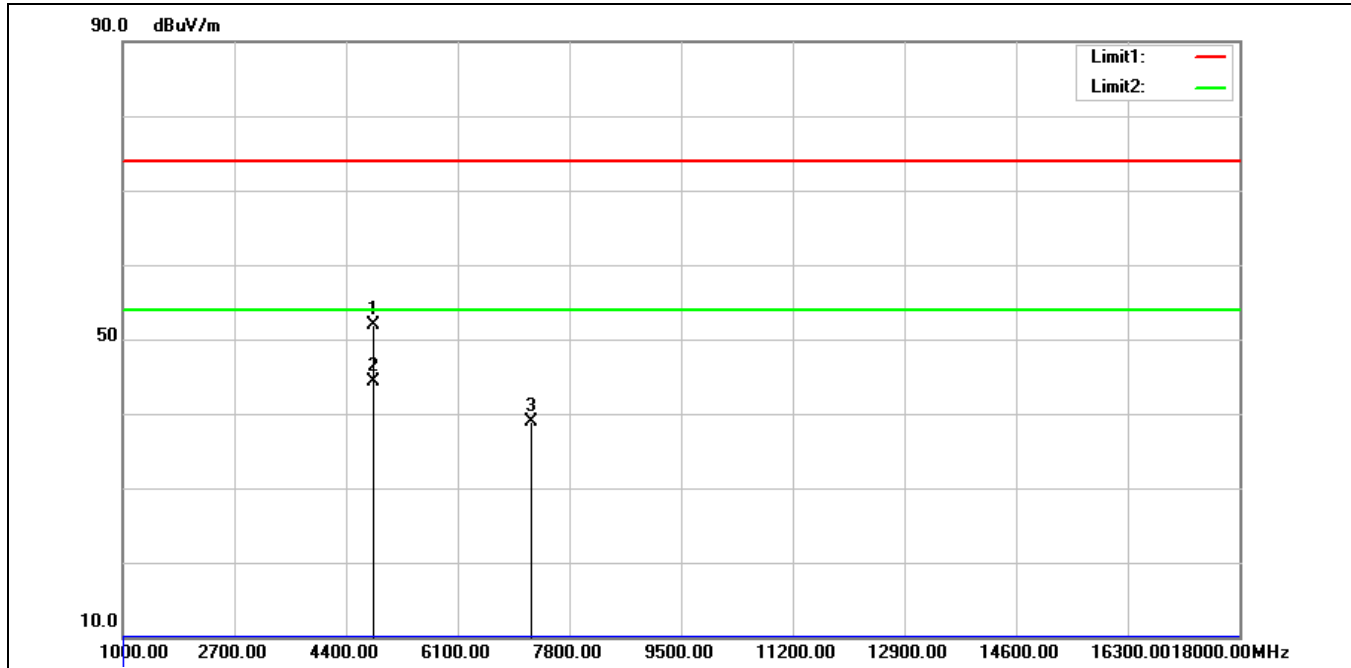
Test Engineer: Sam Su

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

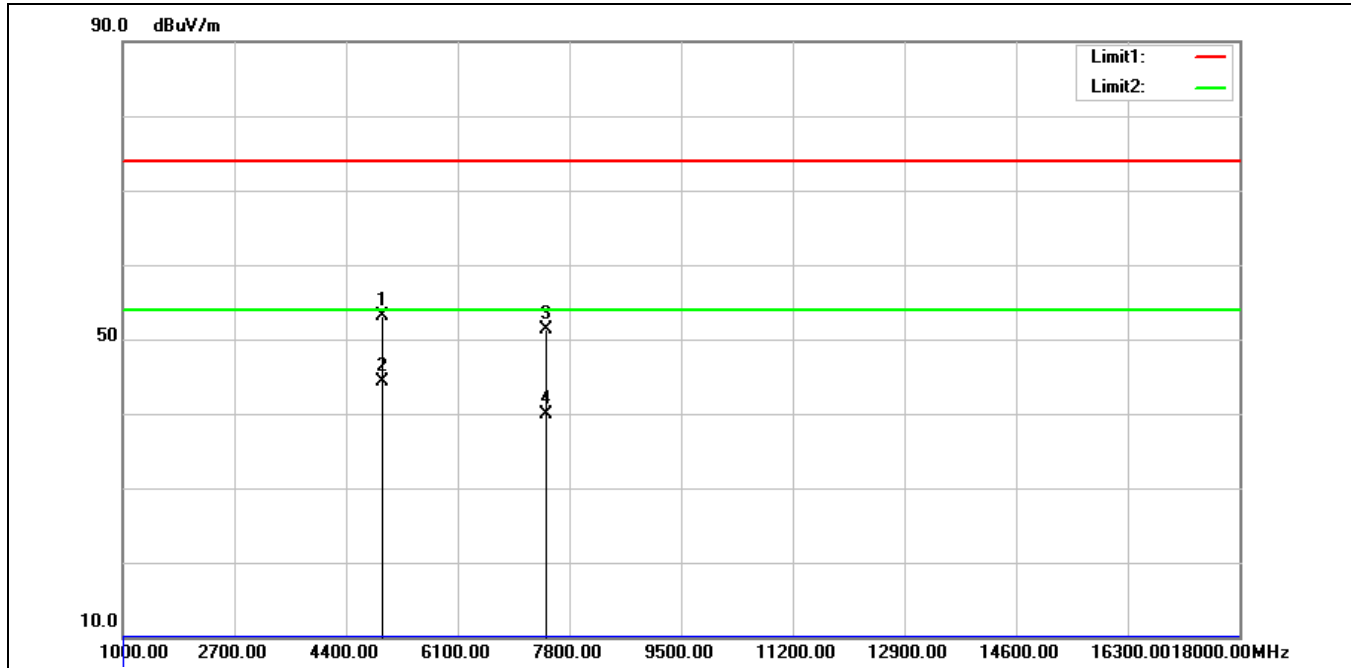
Test Engineer: Sam Su

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

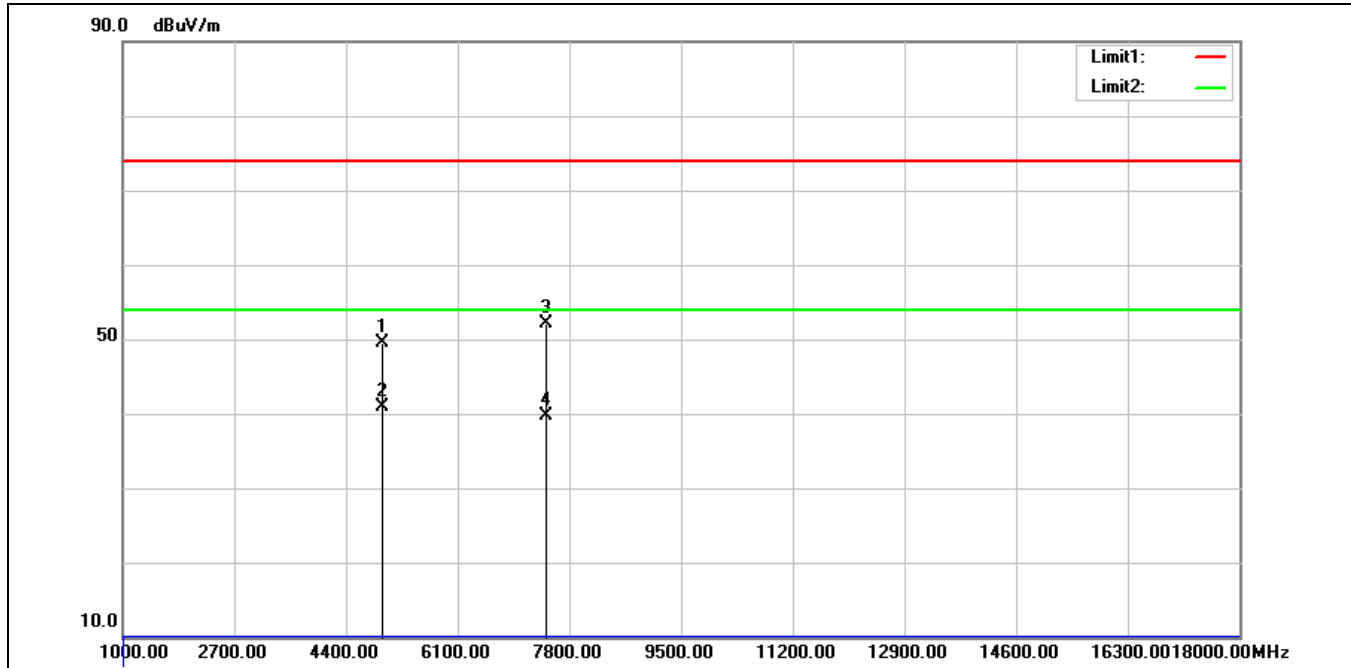
Test Engineer: Sam Su

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

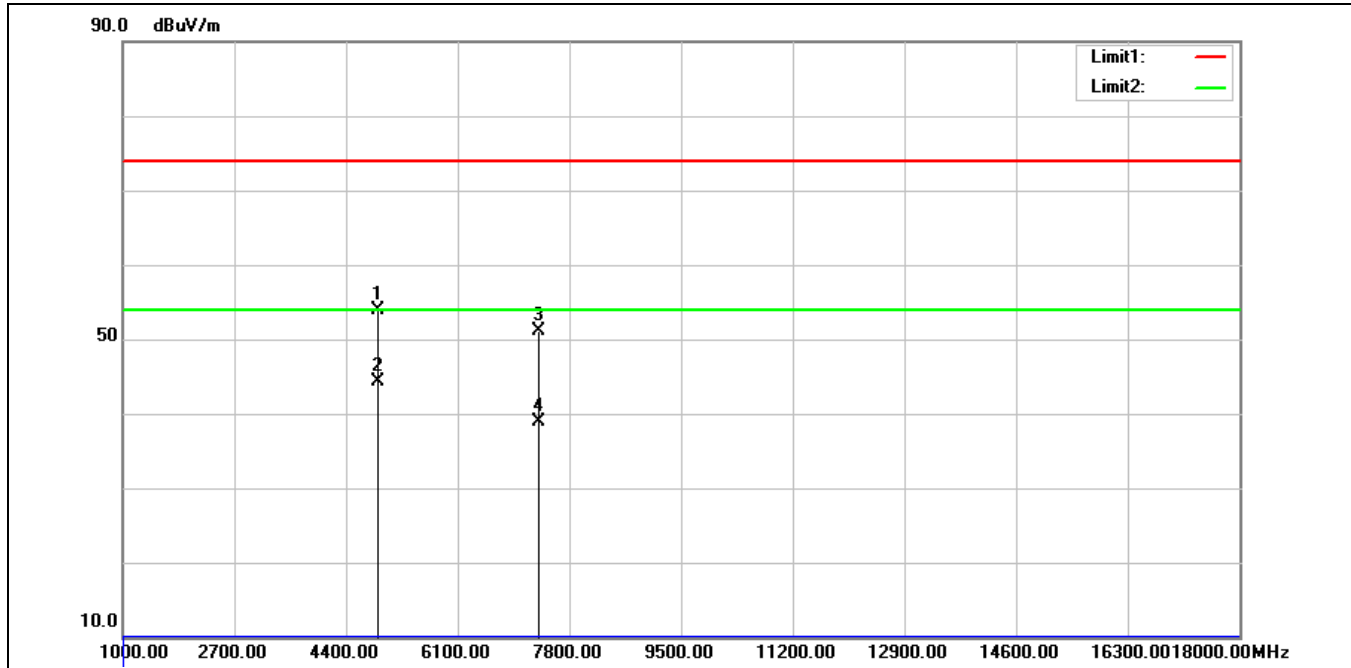
Test Engineer: Sam Su

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

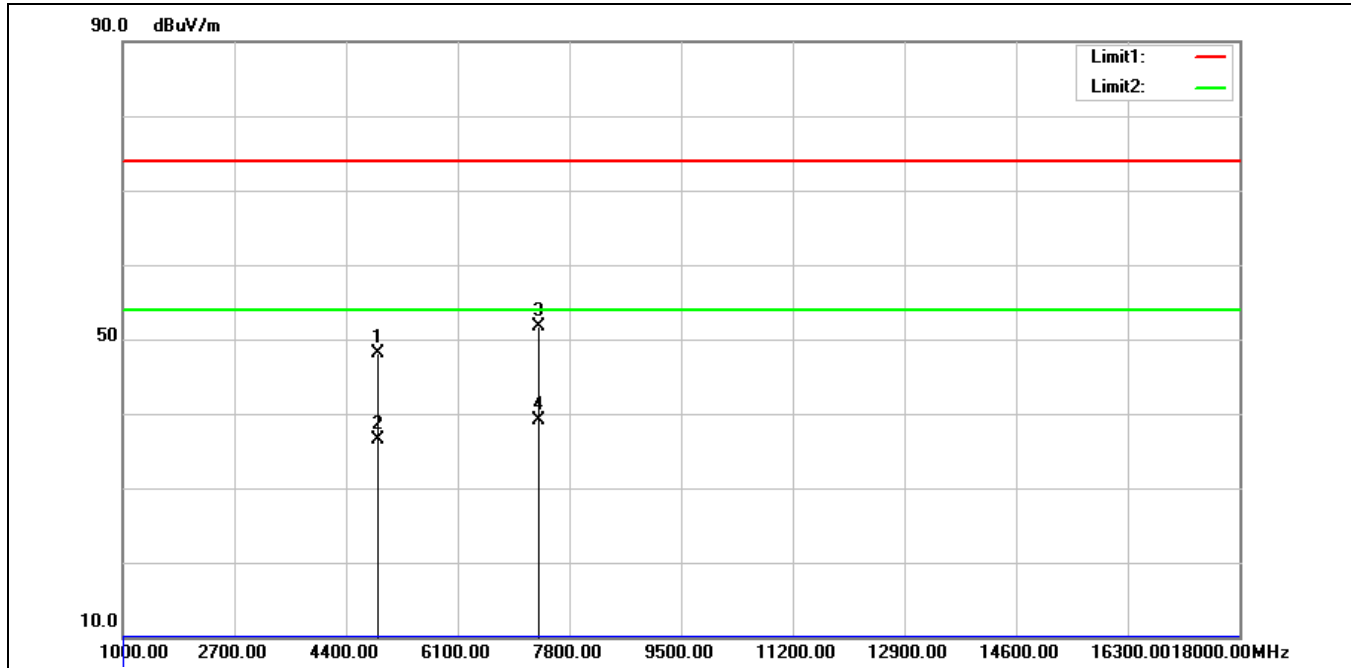
Test Engineer: Sam Su

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

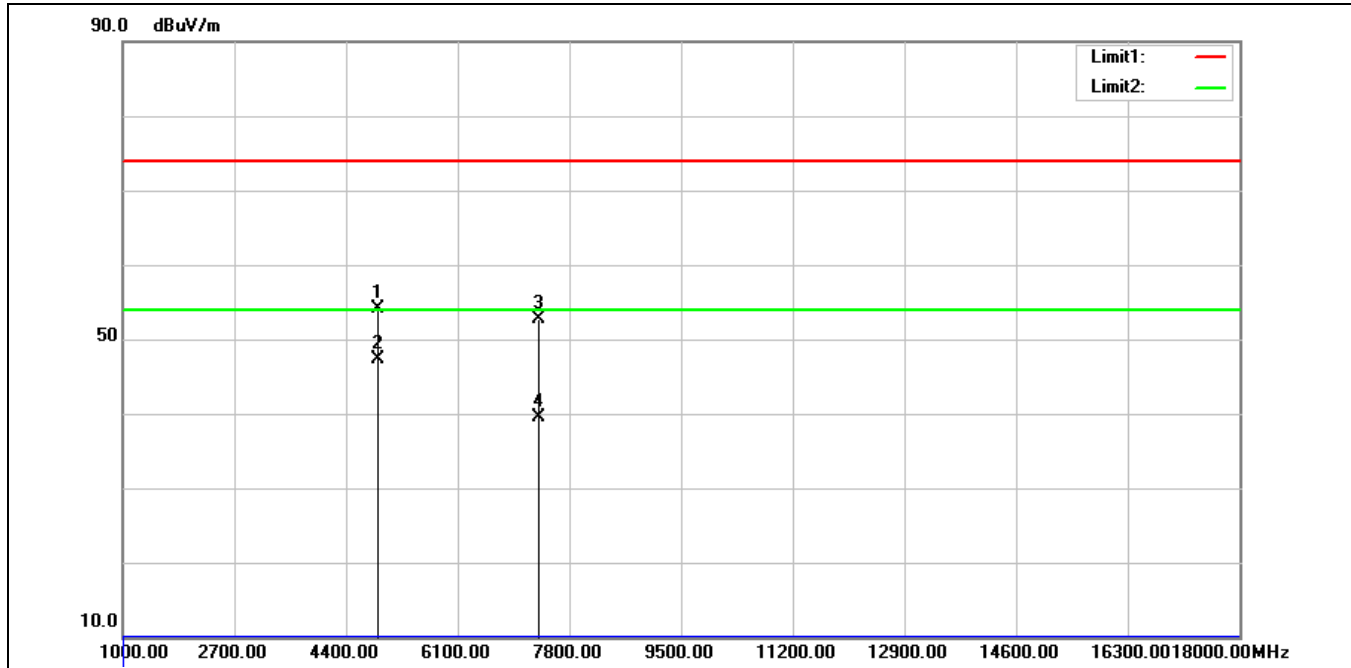
Test Engineer: Sam Su

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

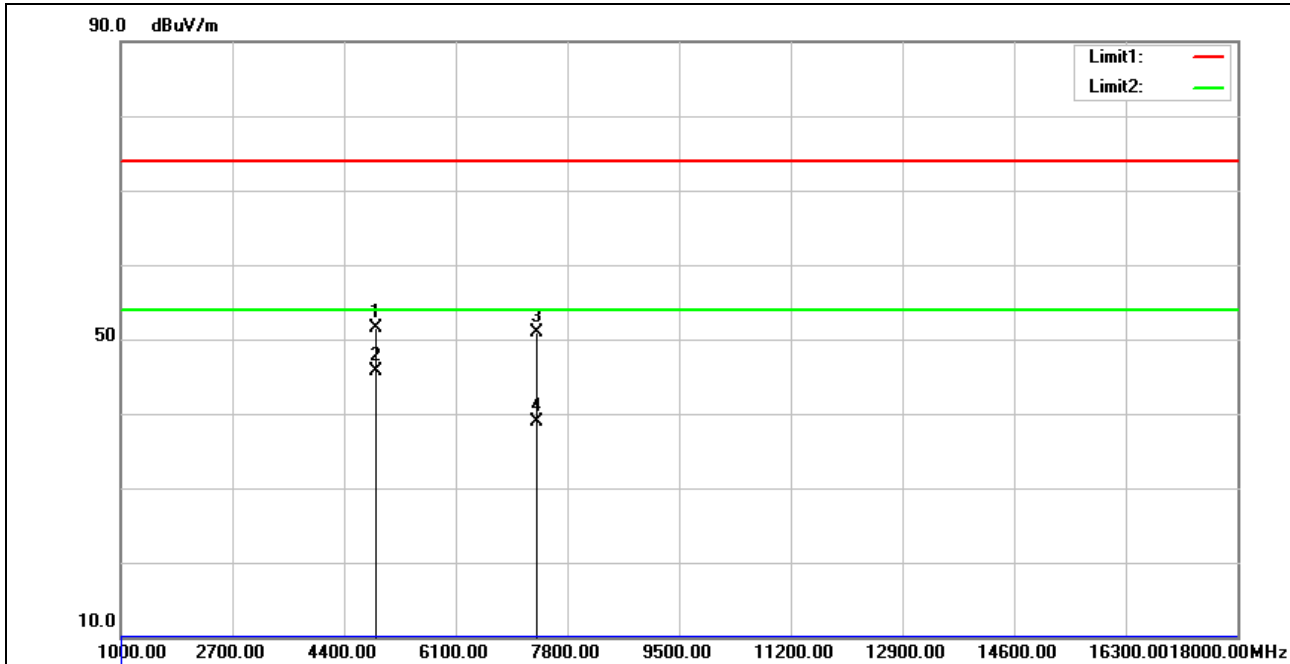
Test Engineer: Sam Su

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

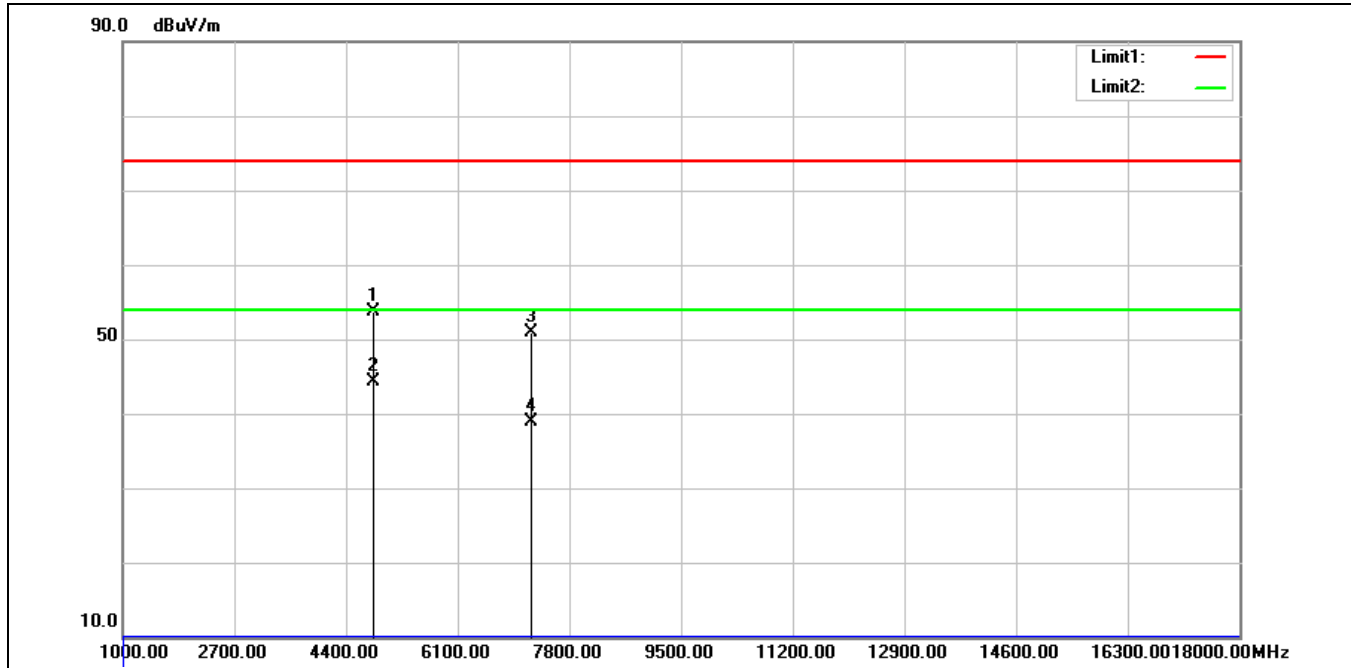
Test Engineer: Sam Su

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 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

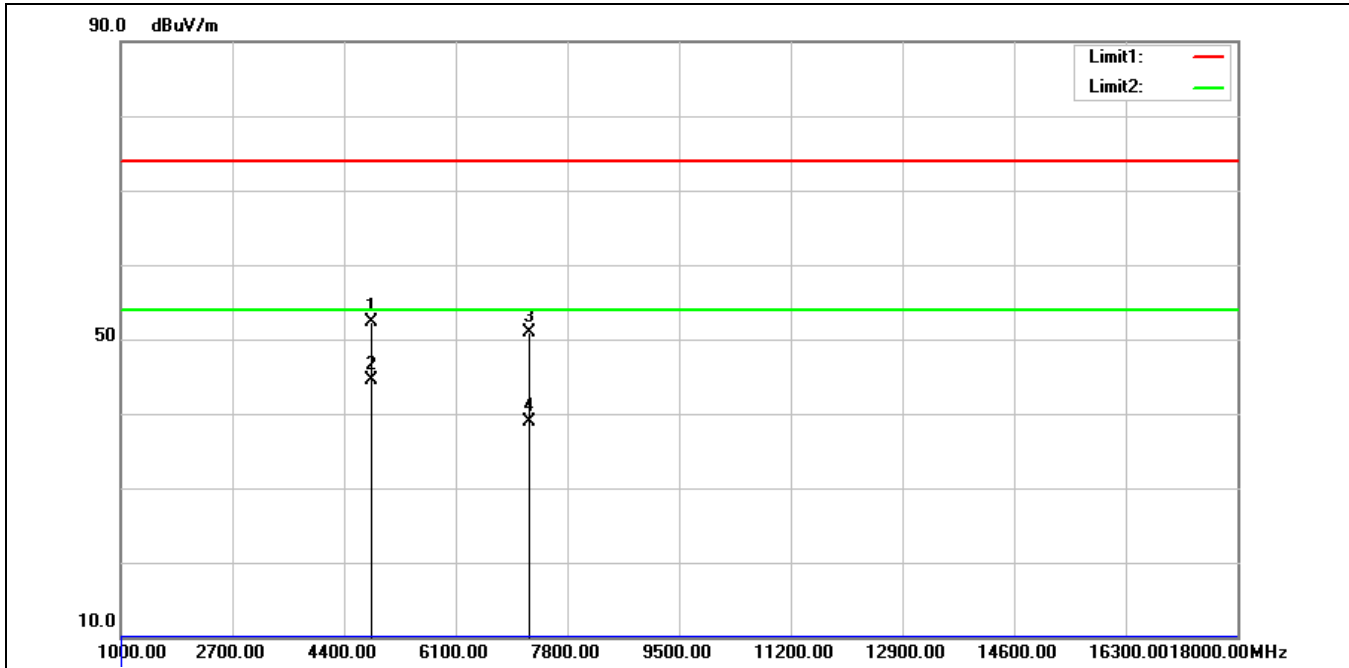
Test Engineer: Sam Su

Test Mode: 2DH5-2402-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 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

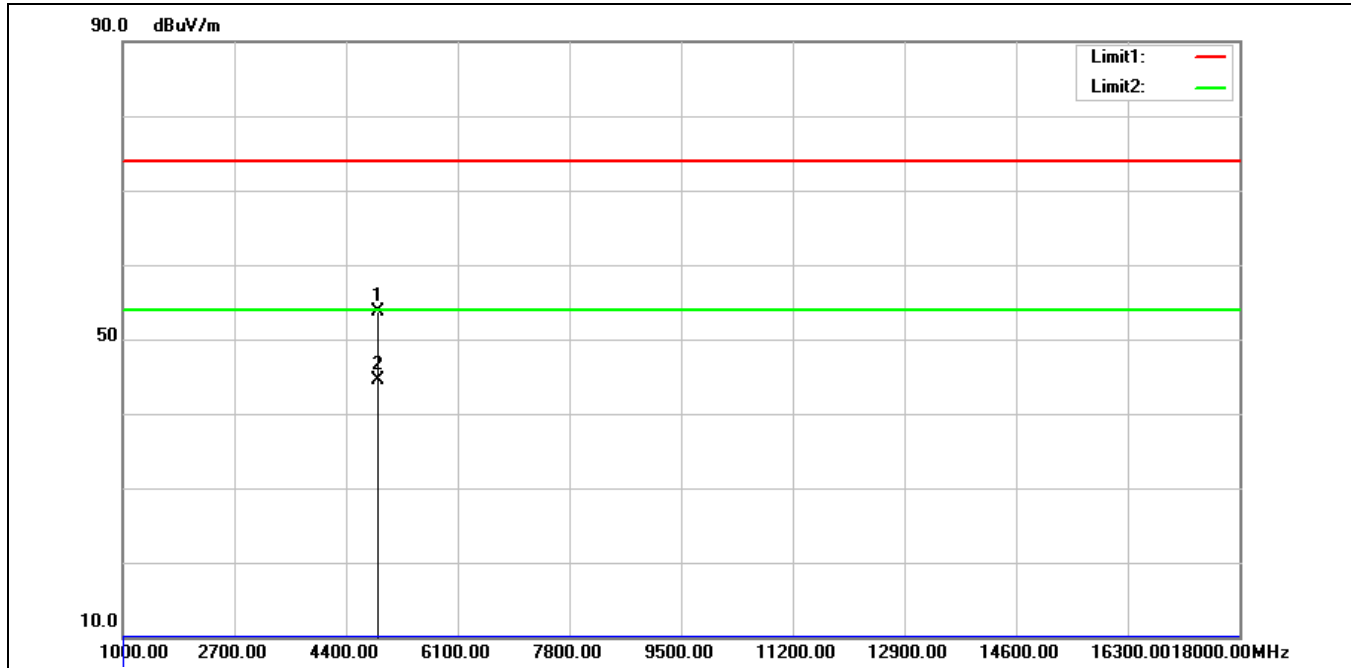
Test Engineer: Sam Su

Test Mode: 2DH5-2402-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 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

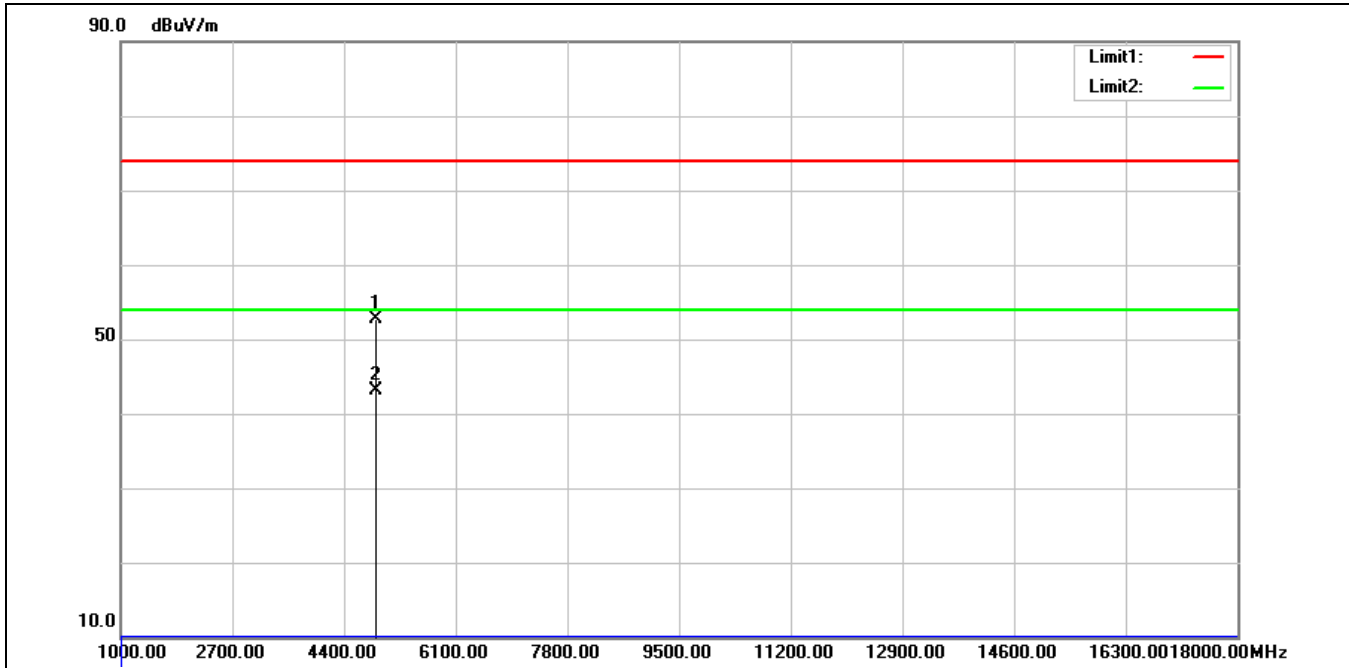
Test Engineer: Sam Su

Test Mode: 2DH5-2441-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 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

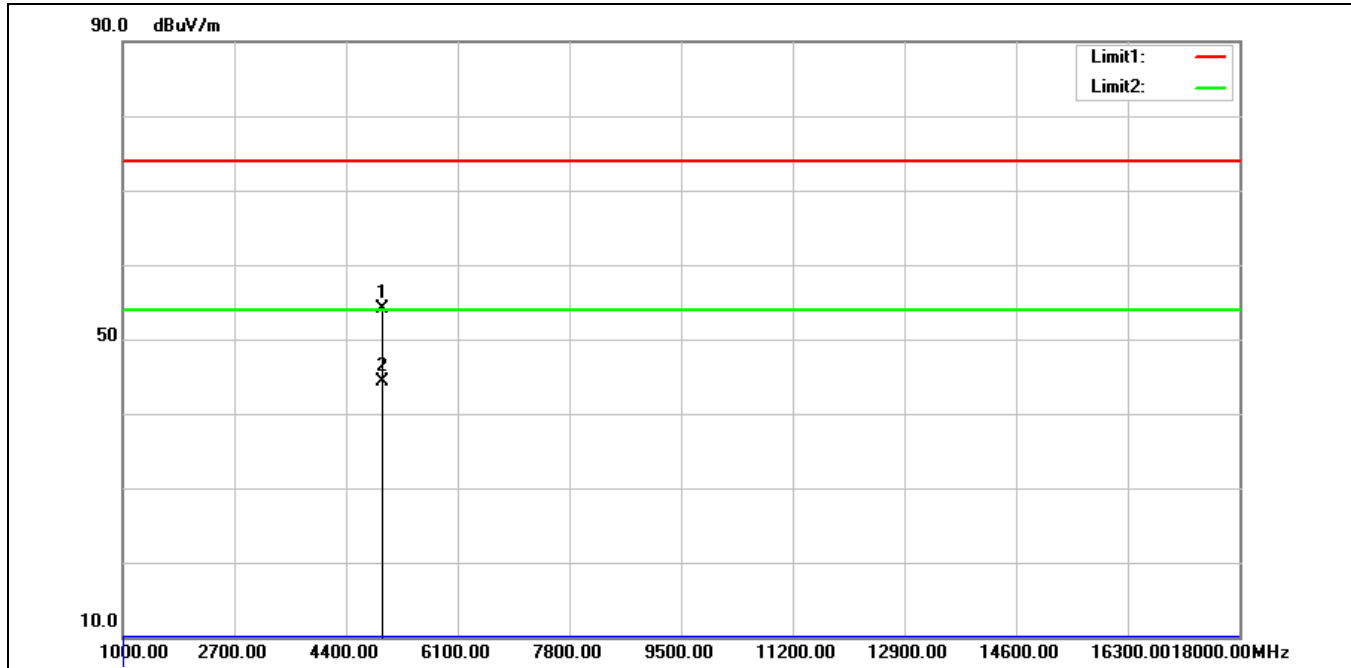
Test Engineer: Sam Su

Test Mode: 2DH5-2441-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	

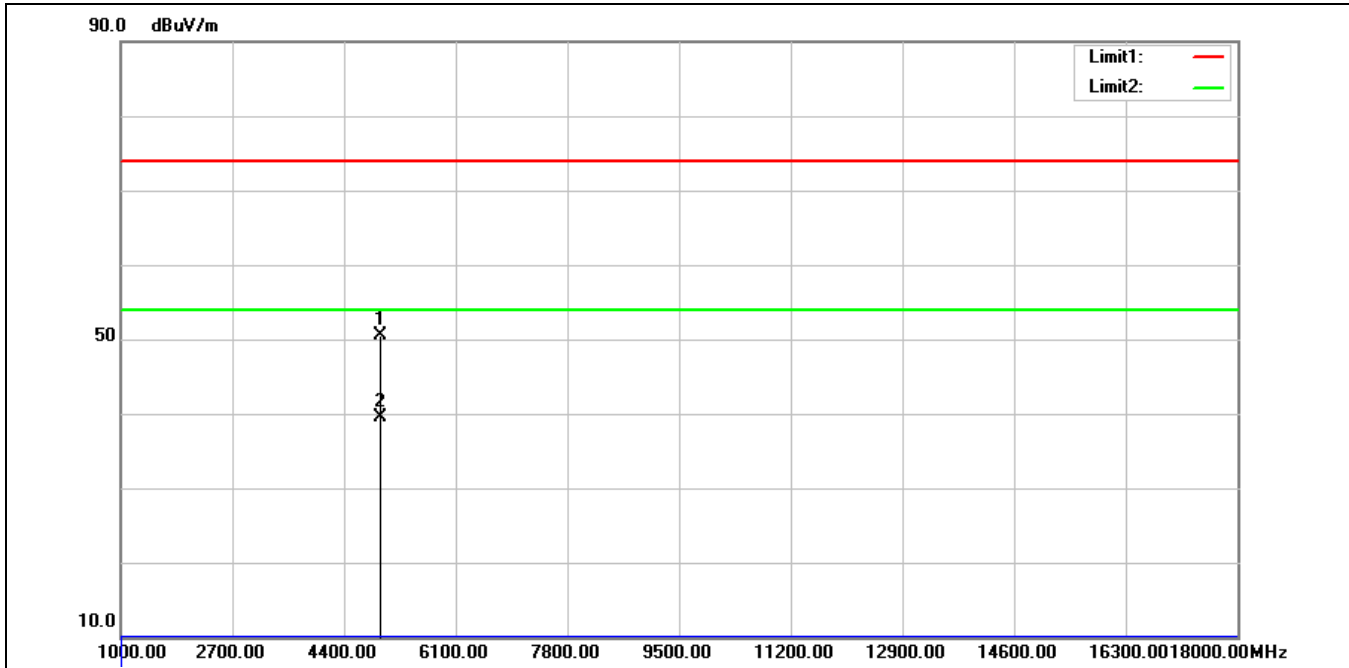


Service No.: 20160106(BM64)
Test Standard: FCC Above 1G PEAK
Test item: Radiation Emission
Applicant: Microchip
Product: BT module
Model No.: BM64SPKabcC1 ClassI

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

Test Mode: 2DH5-2480-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

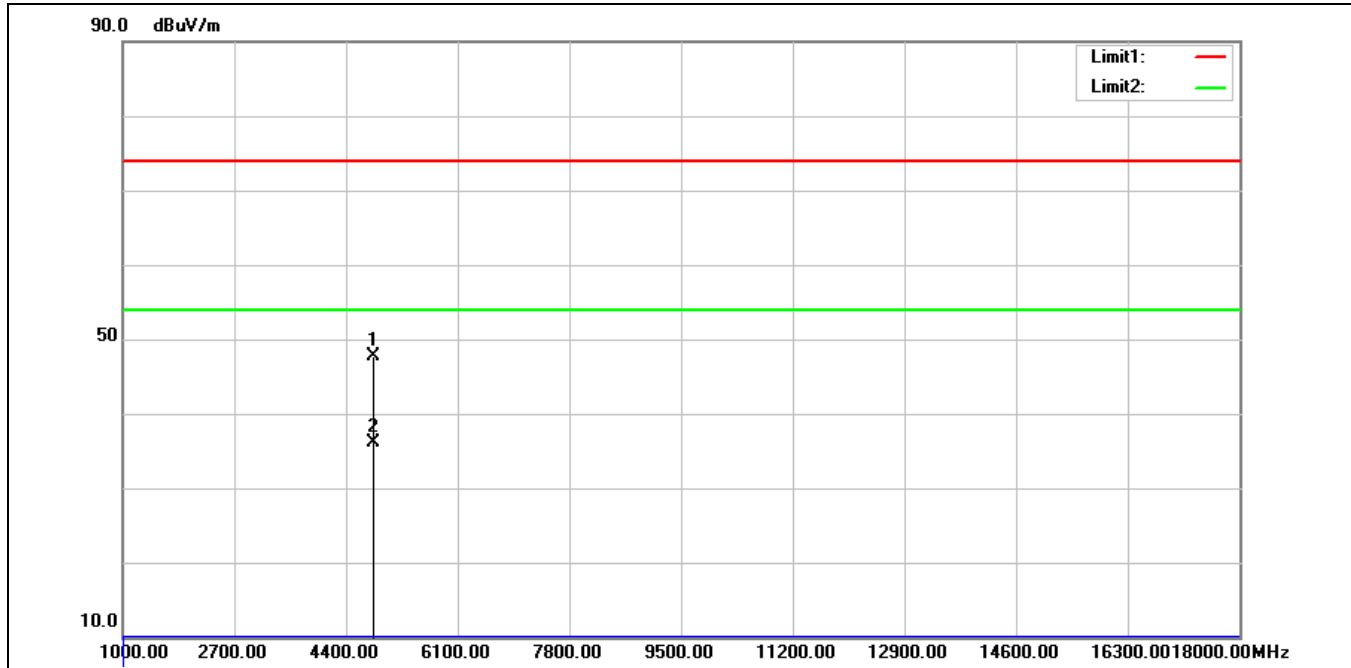
Test Engineer: Sam Su

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

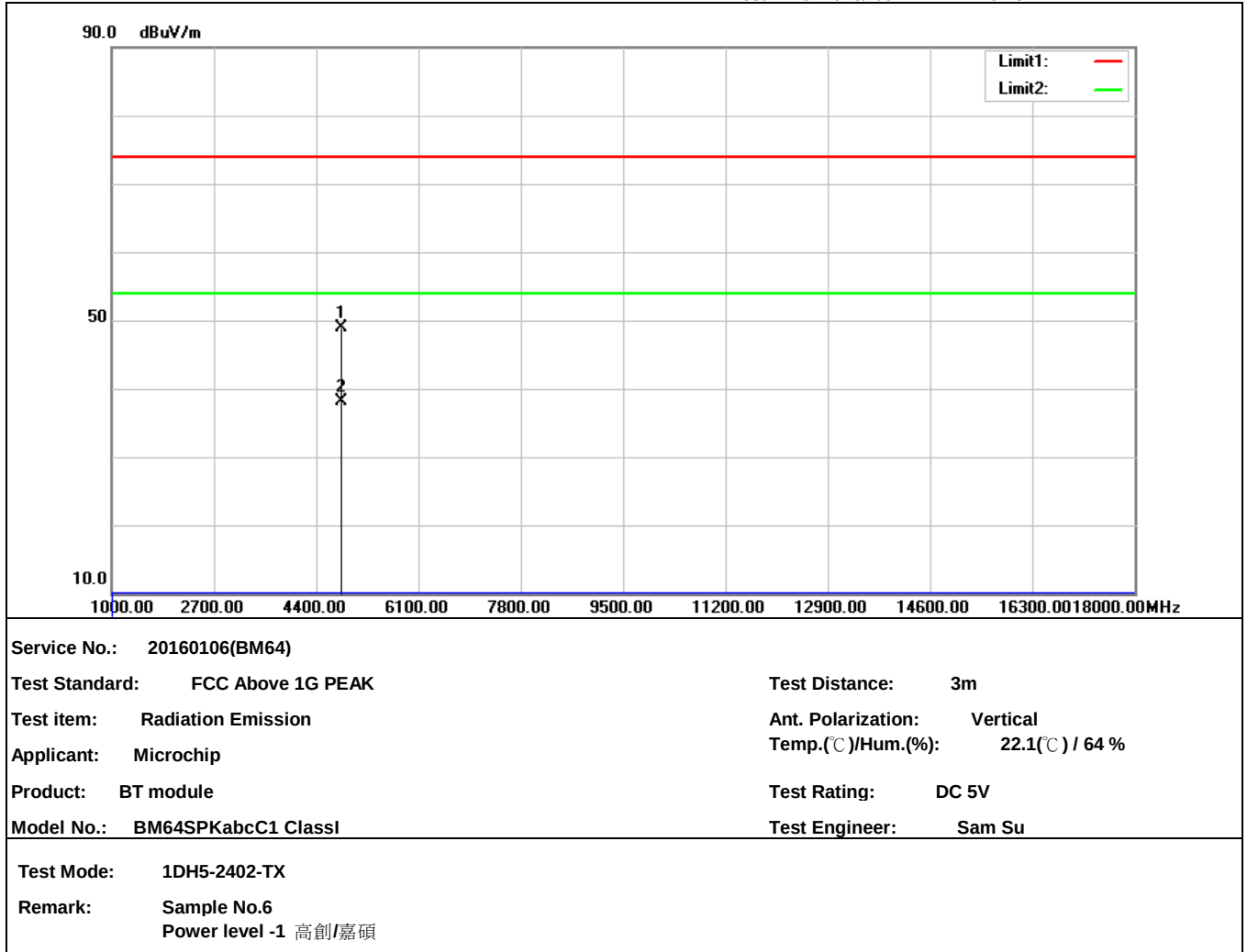
Test Engineer: Sam Su

Test Mode: 1DH5-2402-TX

Remark: Sample No.6

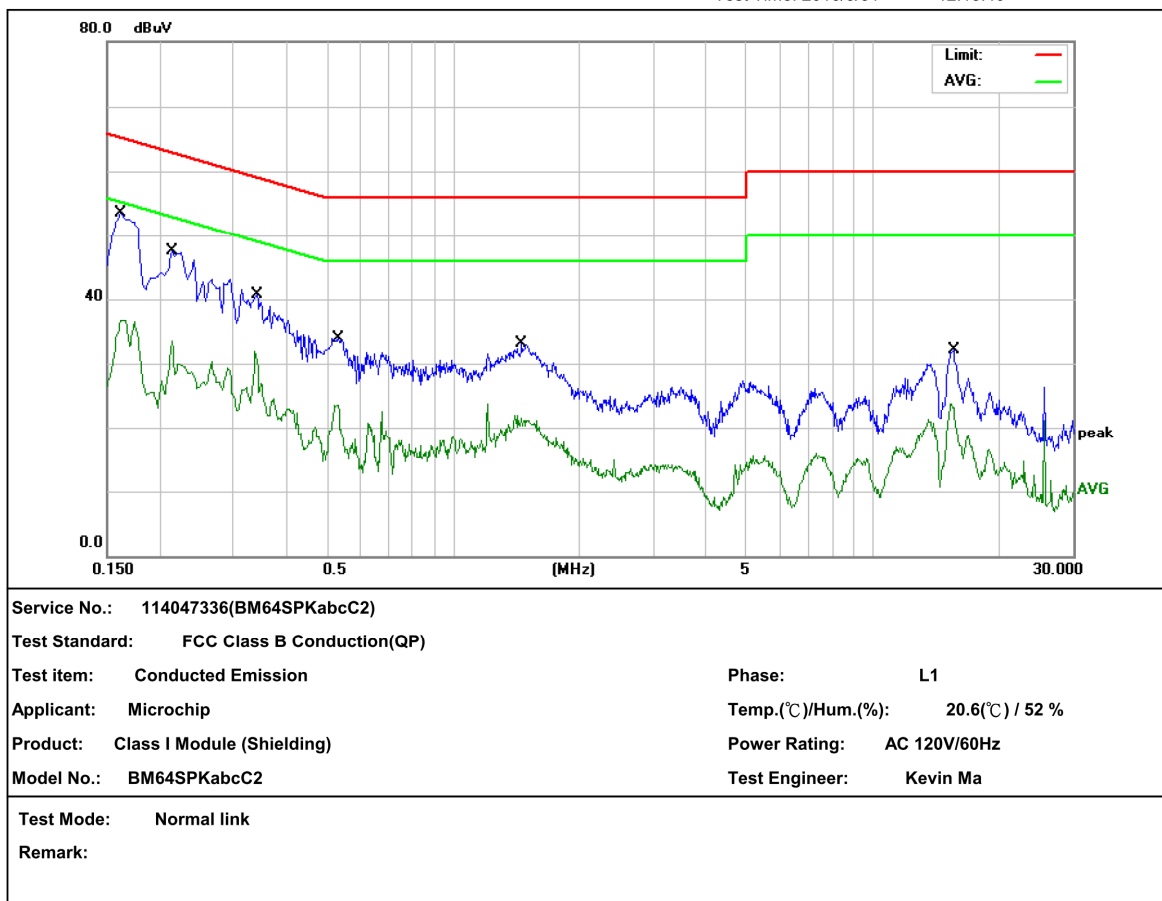
Power level -1 高創/嘉碩

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	

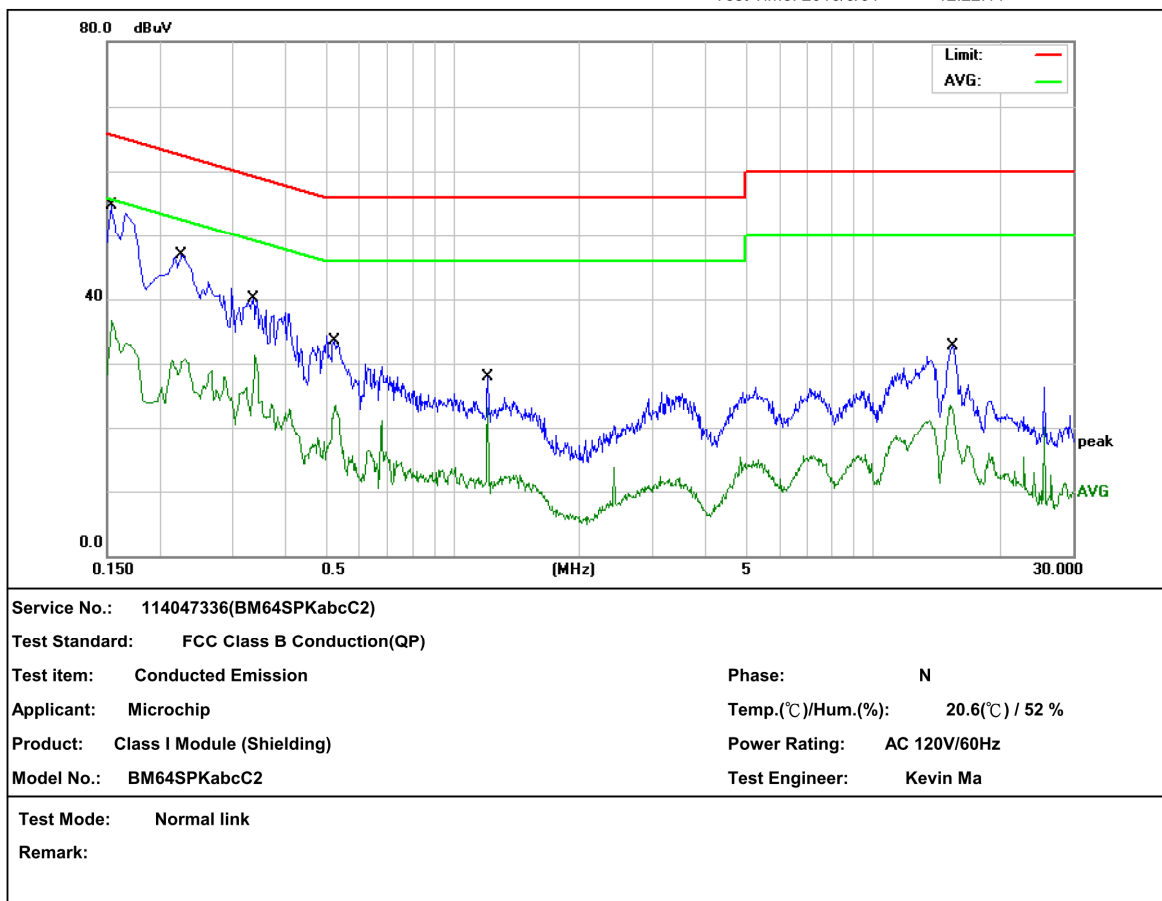


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height	Azimuth (°)	P/F	Remark
1	4804.000	-2.28	51.10	48.82	74.00	-25.18	peak	100	147	P	
2	4804.000	-2.28	40.41	38.13	54.00	-15.87	AVG	100	147	P	

Mains Spurious Emissions



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	