

Test Report No.10052792 10052794 001

Appendix D: Radiated Spurious Emission Data

(File: 10052792 10052794AppendixD)

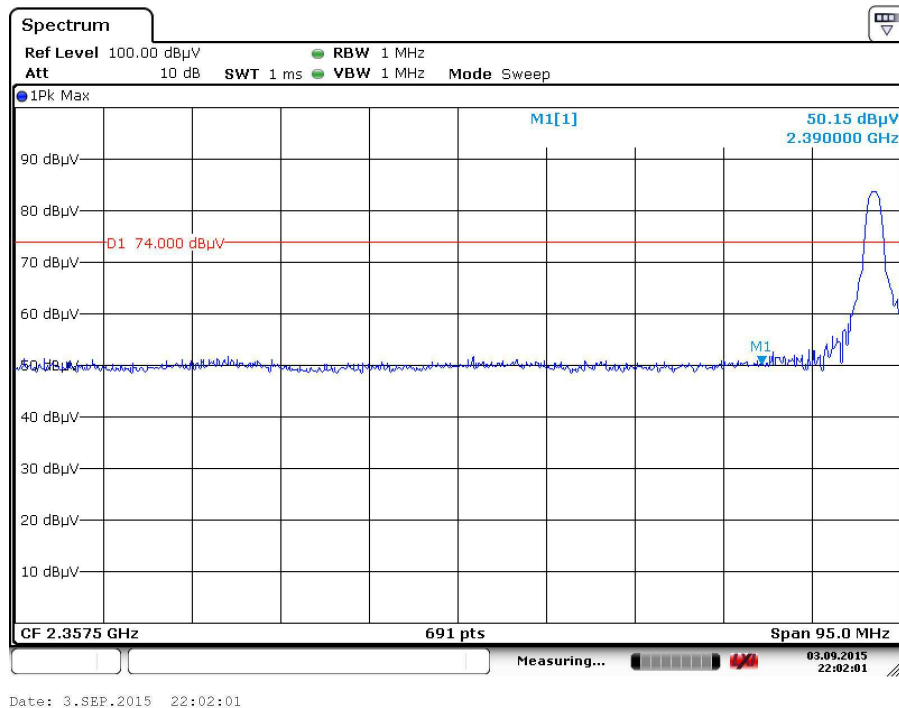
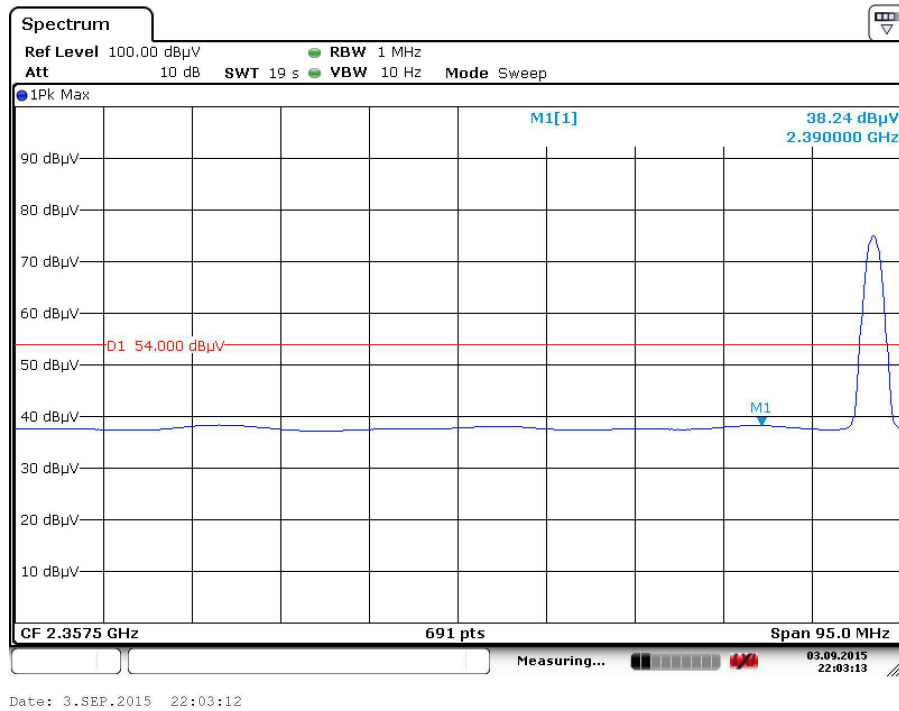
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Spurious Emissions, Band Edges, 2.35-2.5G

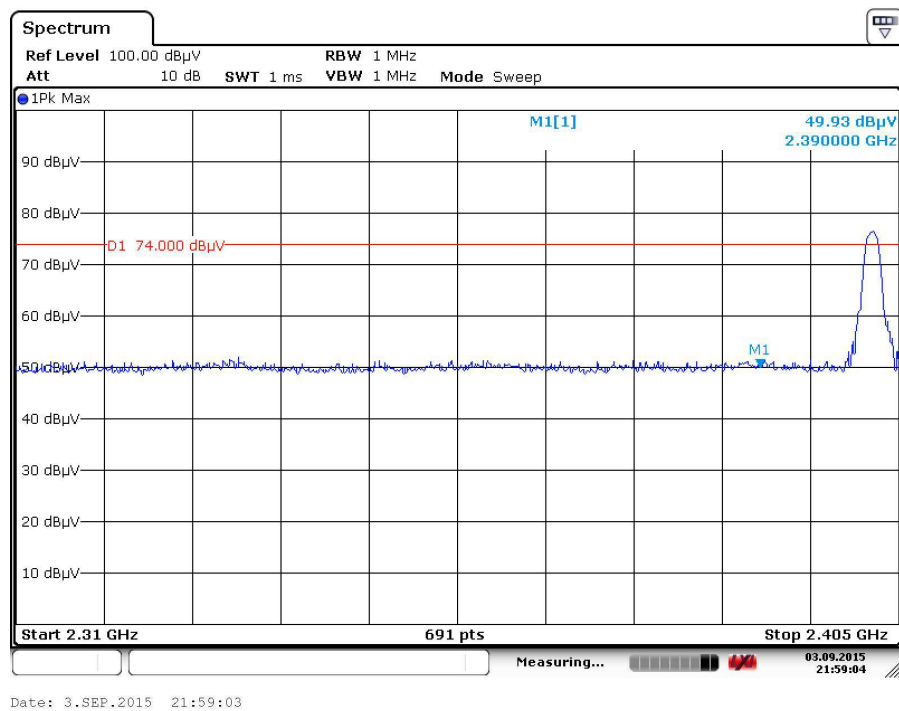
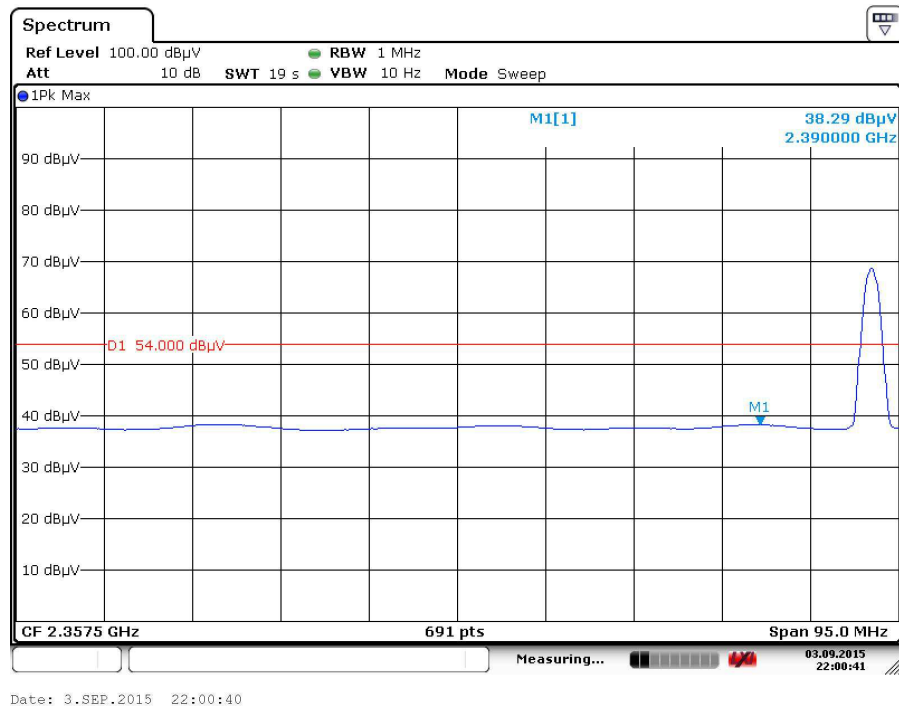
Radiated Bandedge (GFSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

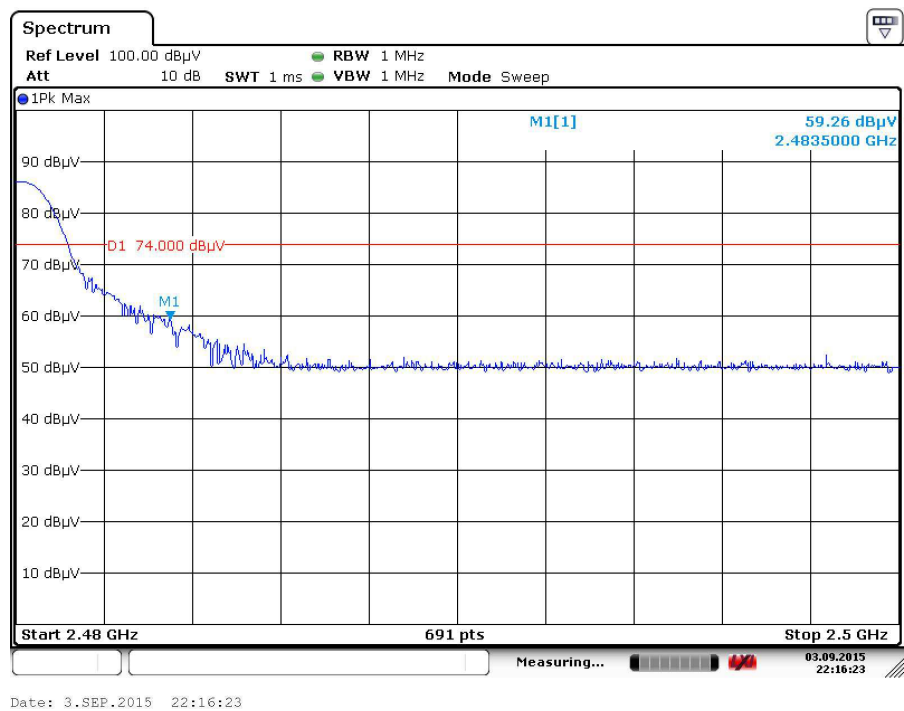
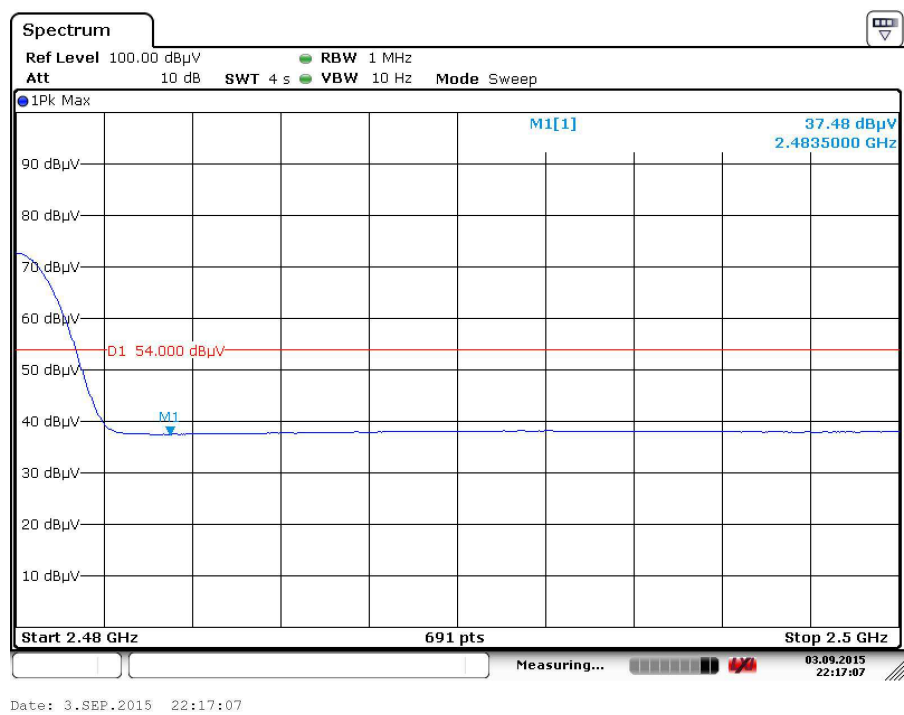
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

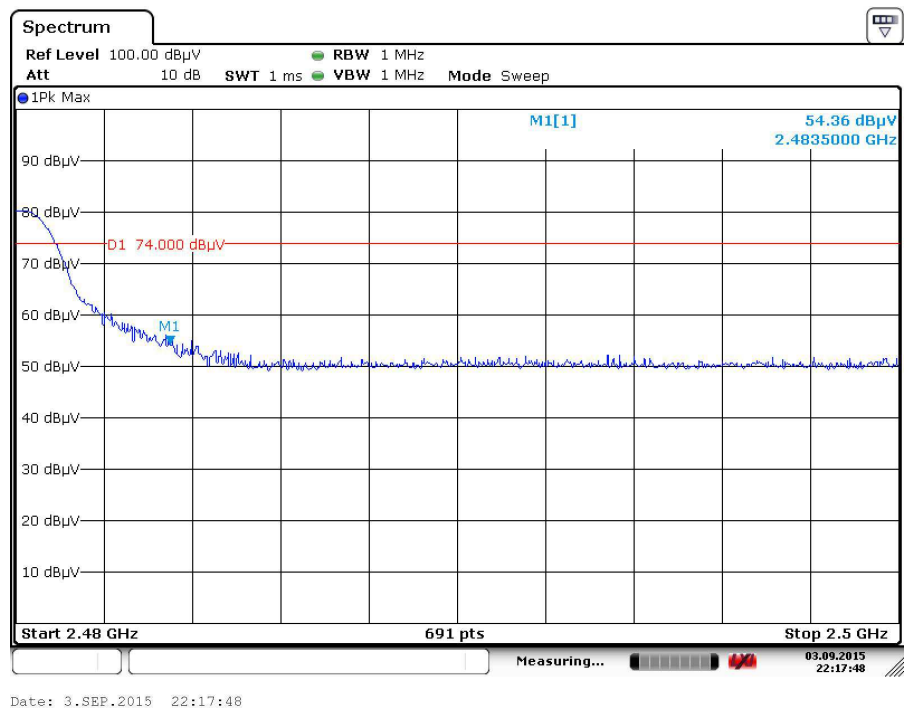
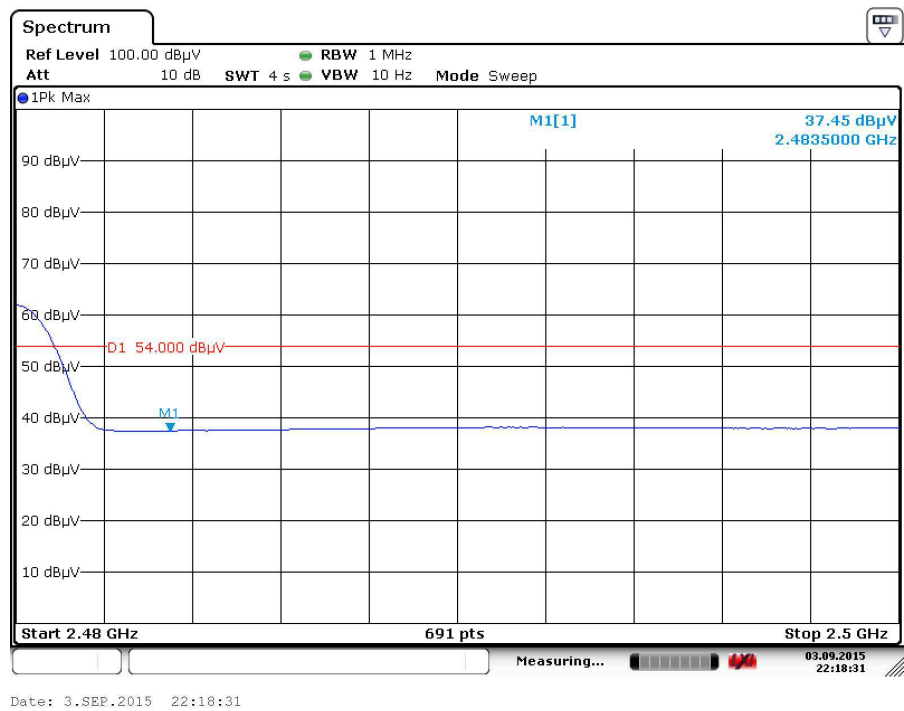
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

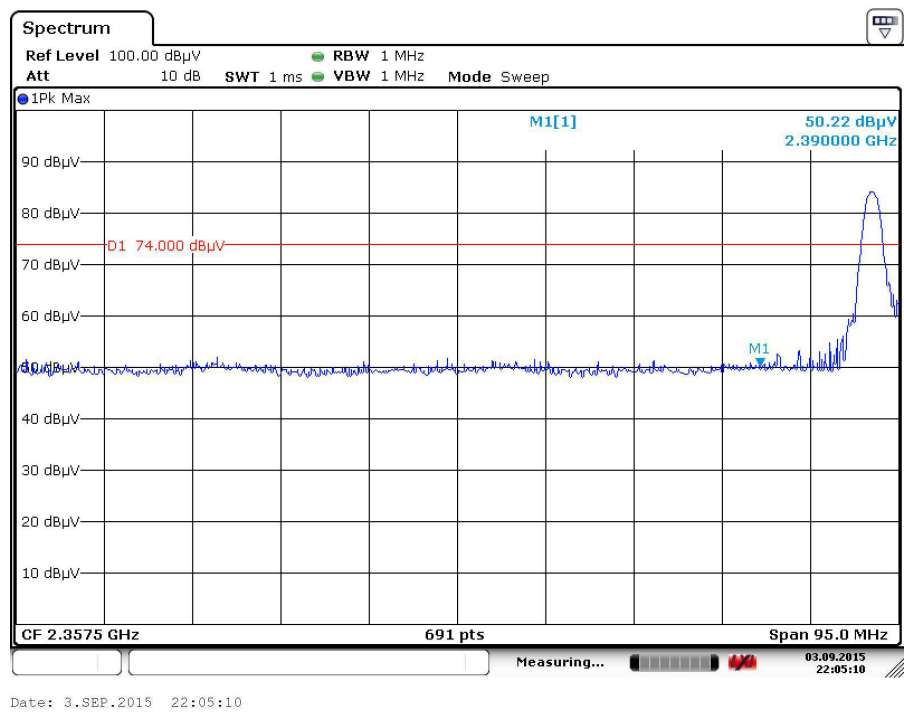
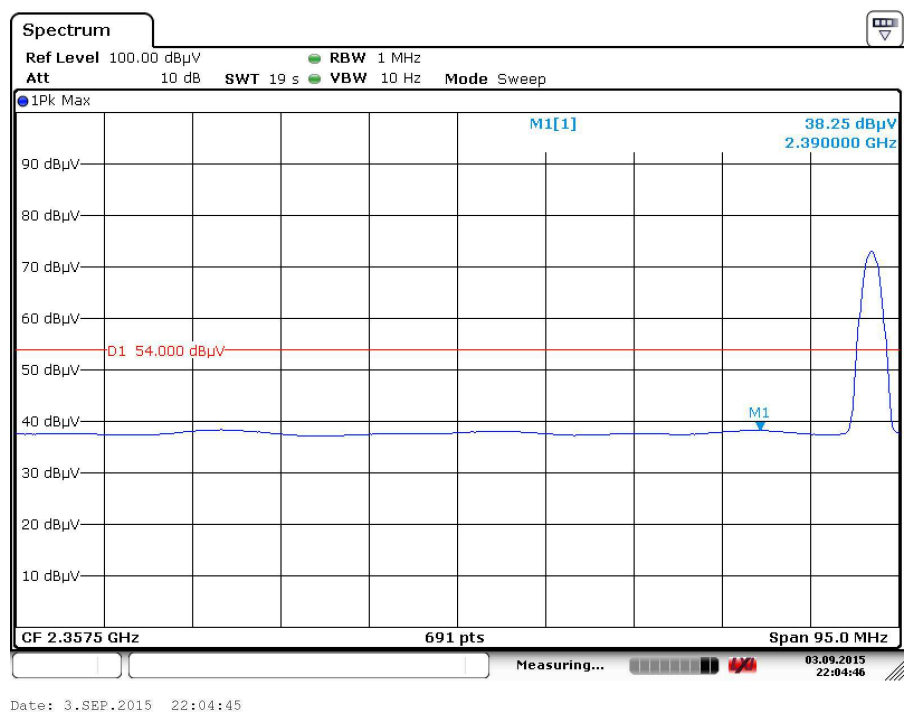
High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

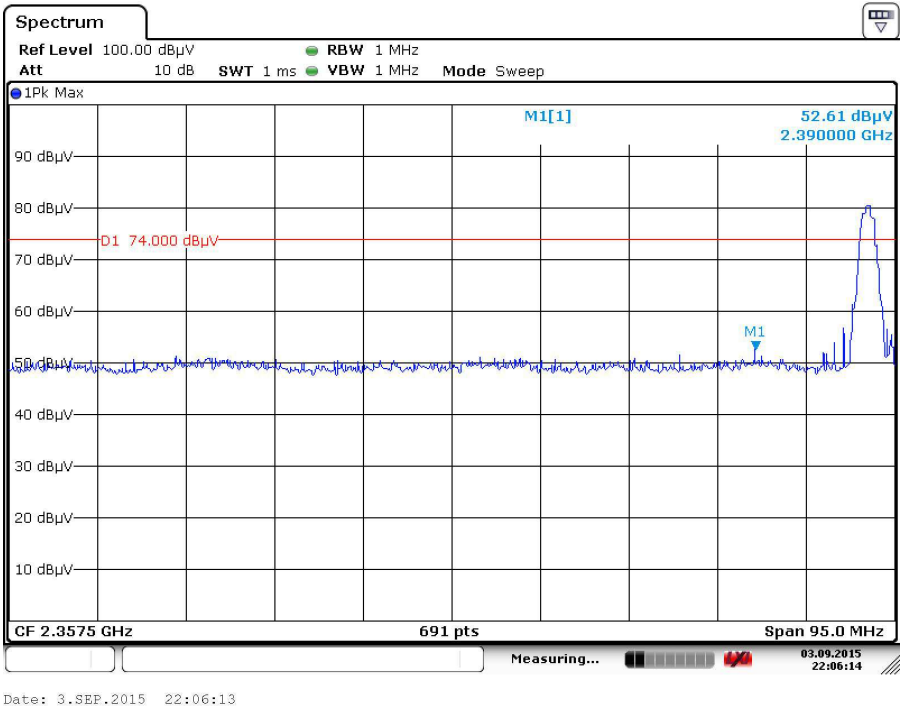
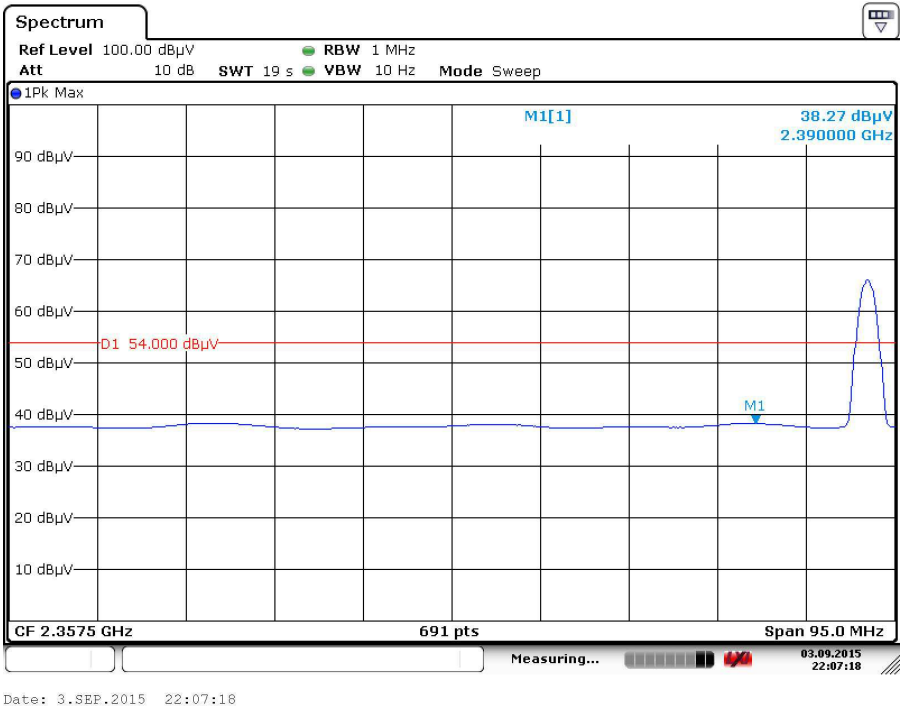
Radiated Bandedge (8DPSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

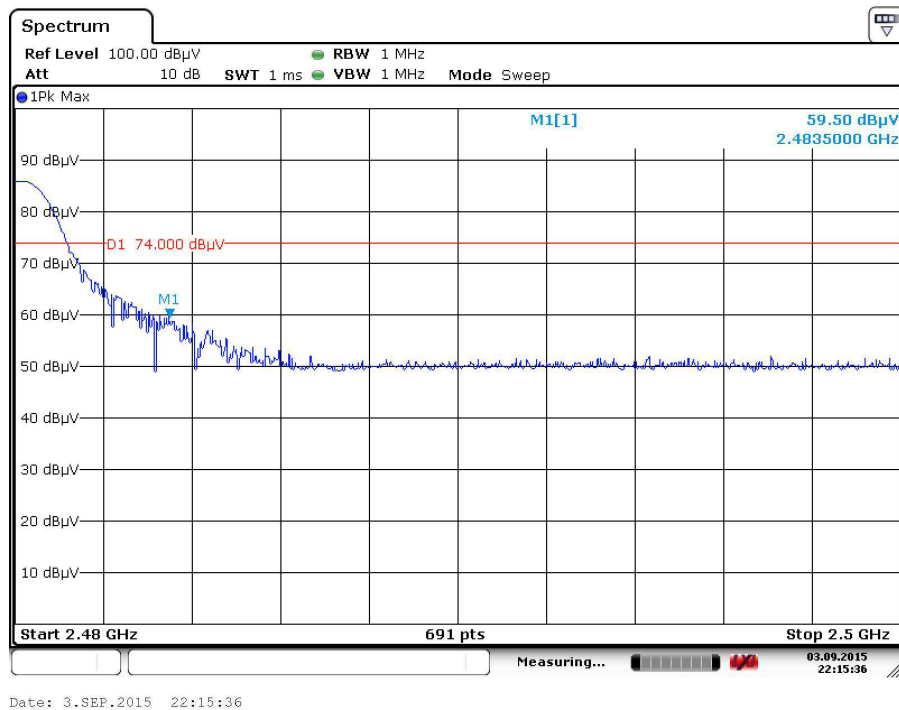
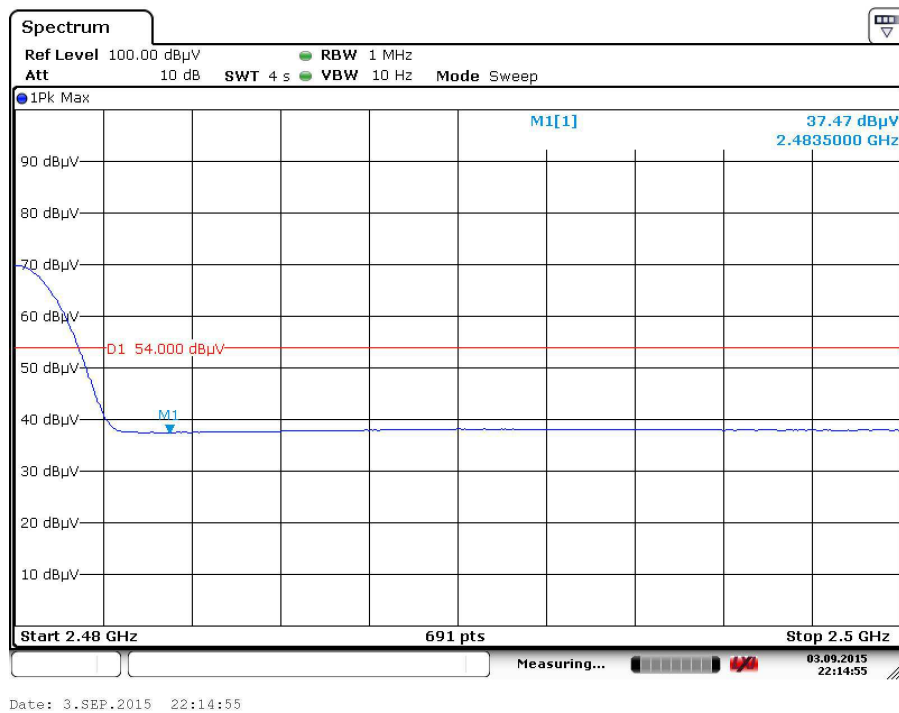
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

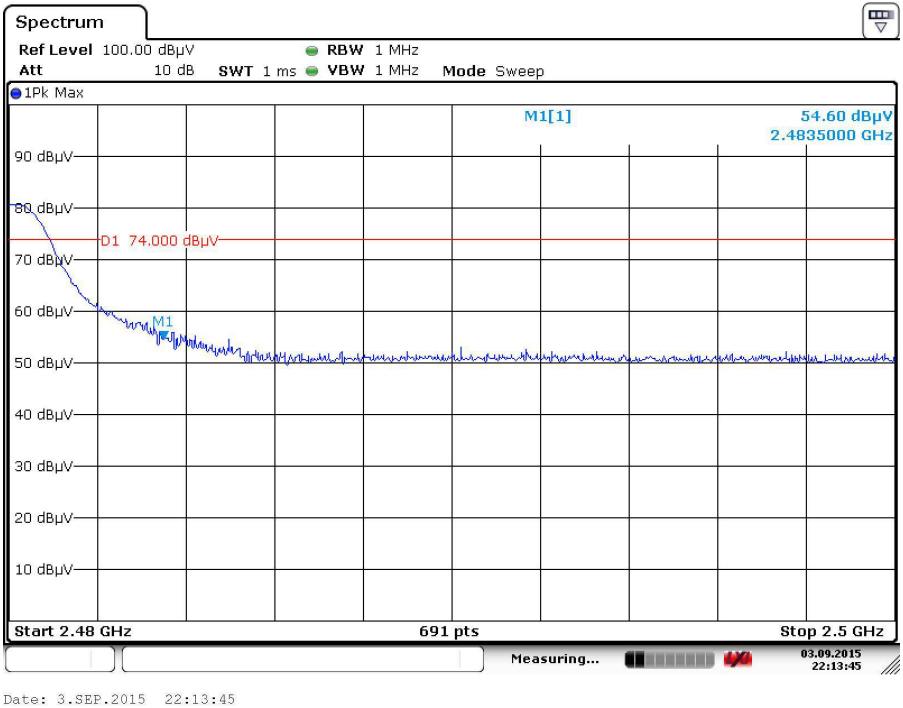
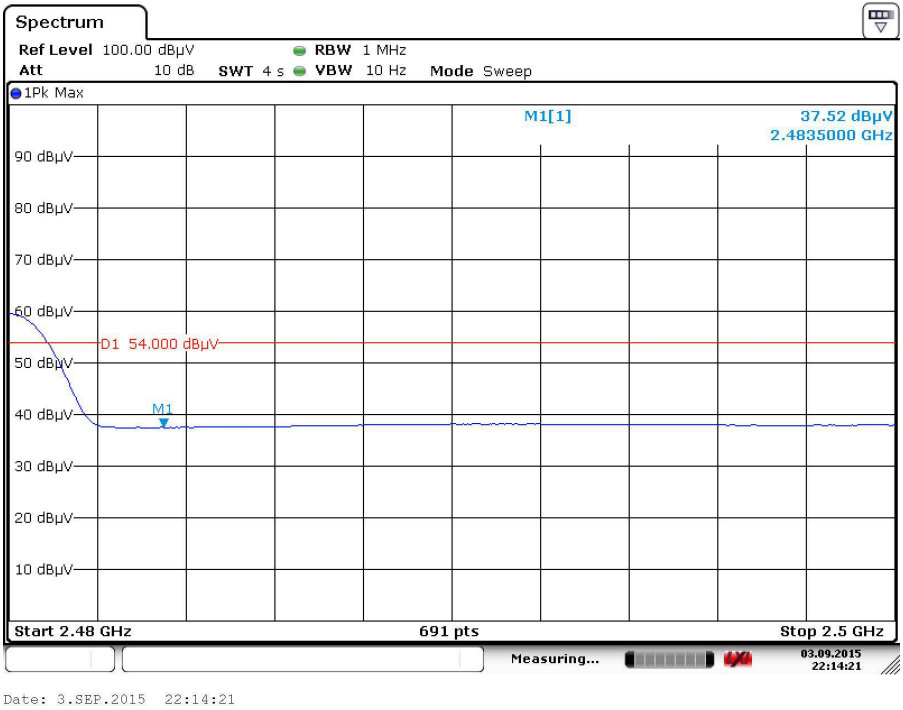
Radiated Bandedge (8DPSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

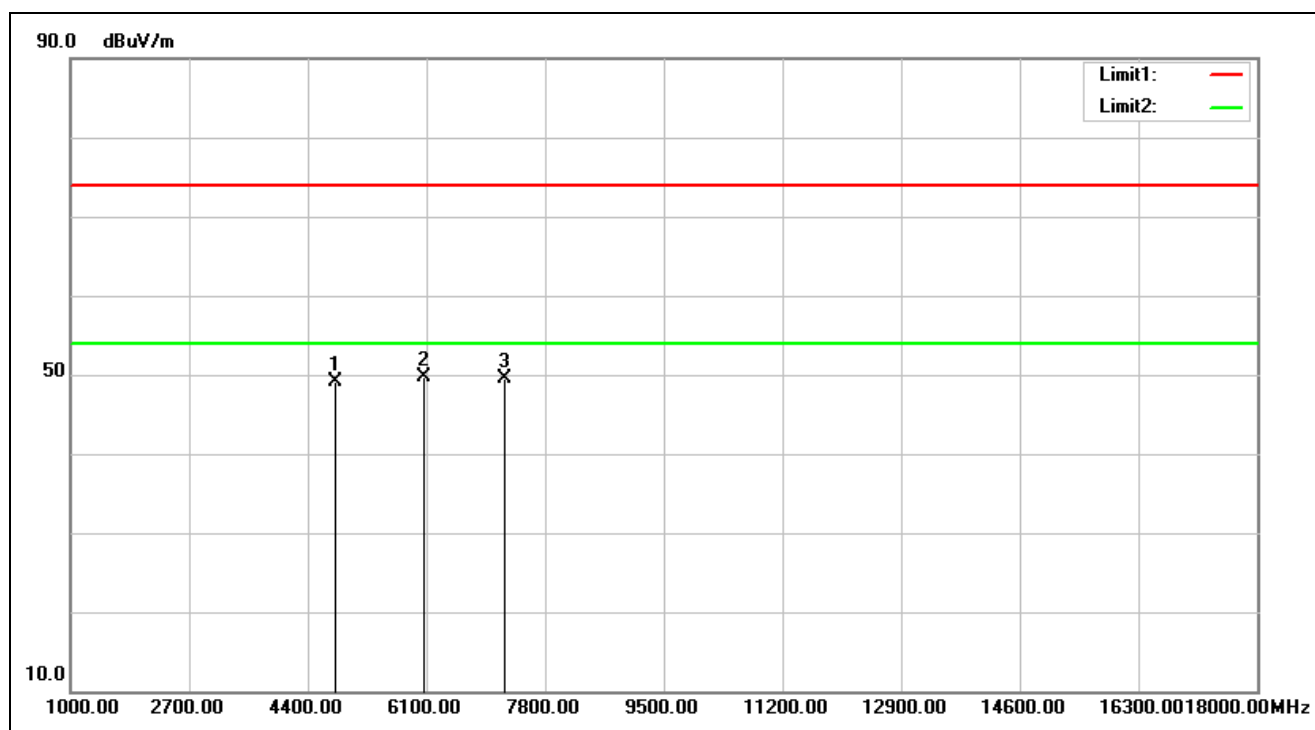
Spurious Emissions, TX Mode, 1-18G



TUV Taiwan

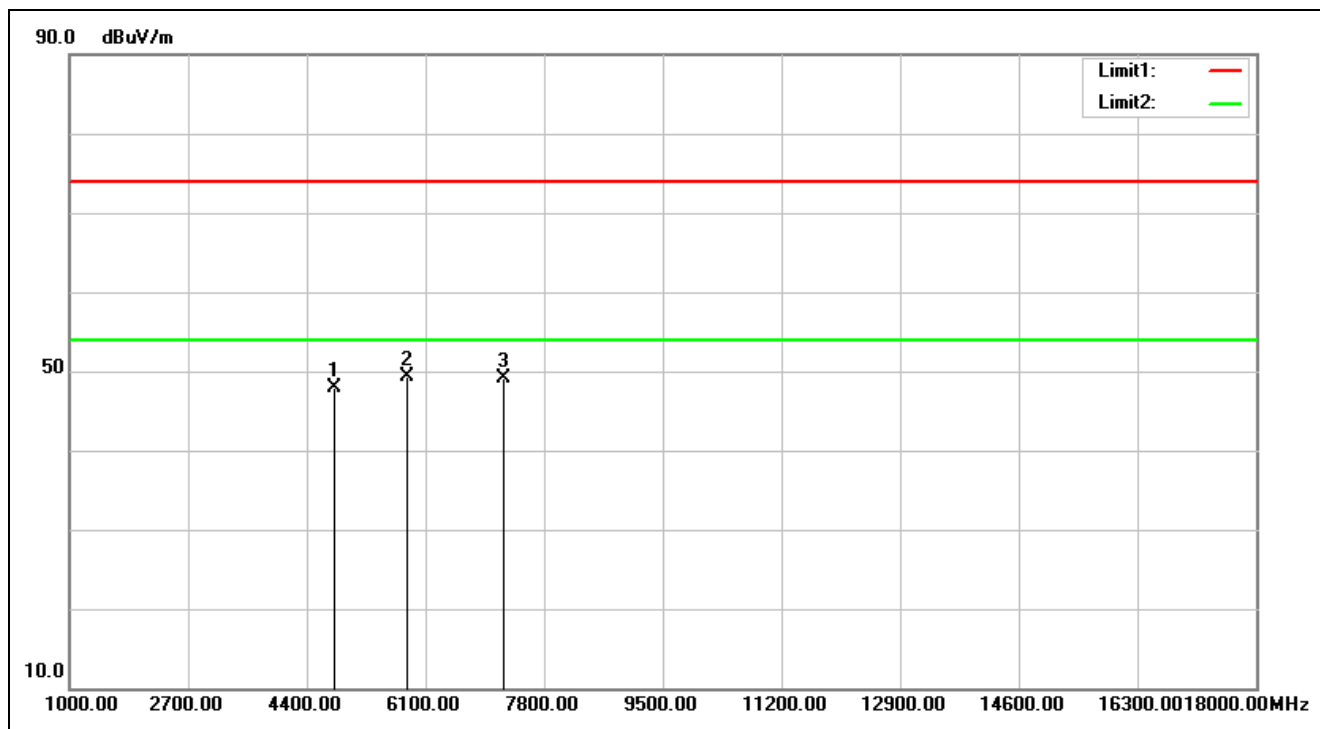
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



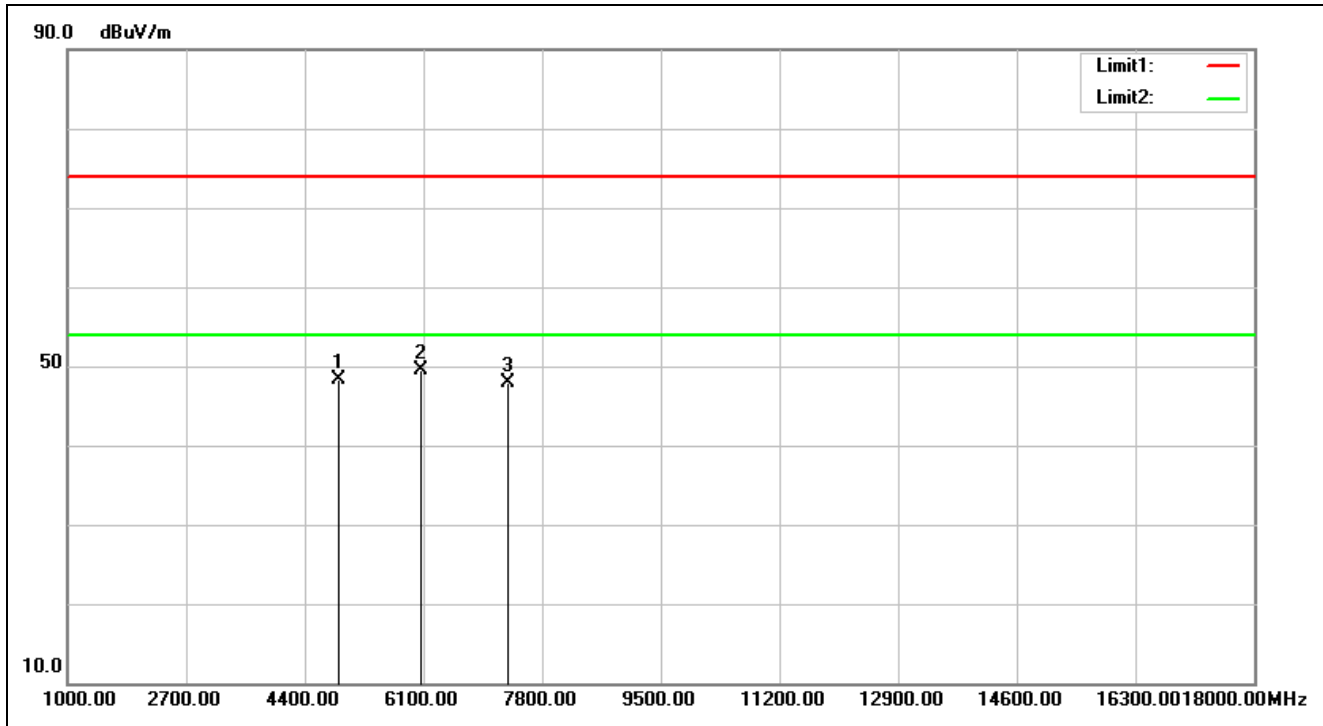
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Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:01:44
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	-2.35	51.46	49.11	74.00	-24.89	peak	100	172	
2	6066.000	4.34	45.34	49.68	74.00	-24.32	peak	100	145	
3	7206.000	5.78	43.65	49.43	74.00	-24.57	peak		0	



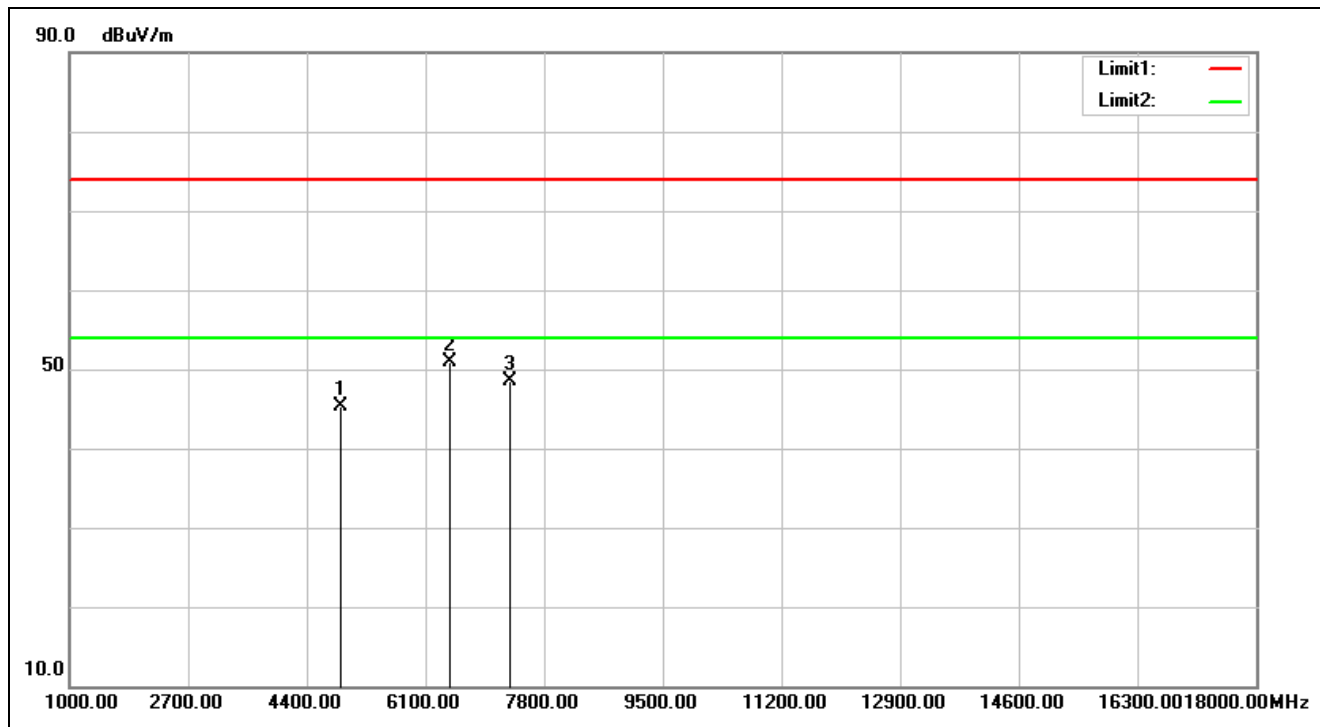
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:02:46
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	-2.35	50.24	47.89	74.00	-26.11	peak	100	25	
2	5845.000	3.07	46.29	49.36	74.00	-24.64	peak	100	74	
3	7206.000	5.78	43.25	49.03	74.00	-24.97	peak			



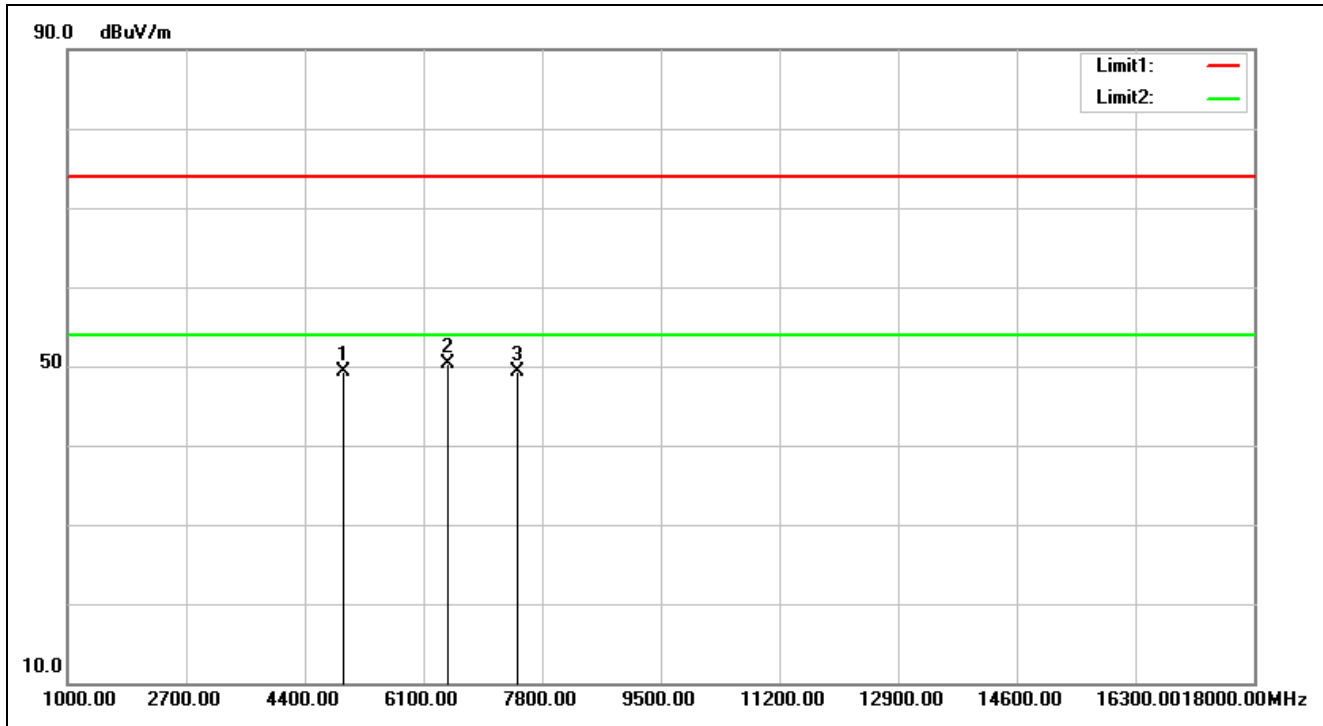
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Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:05:38
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
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	-2.16	50.40	48.24	74.00	-25.76	peak	100	211	
2	6066.000	4.34	45.21	49.55	74.00	-24.45	peak	100	183	
3	7323.000	6.13	41.80	47.93	74.00	-26.07	peak			



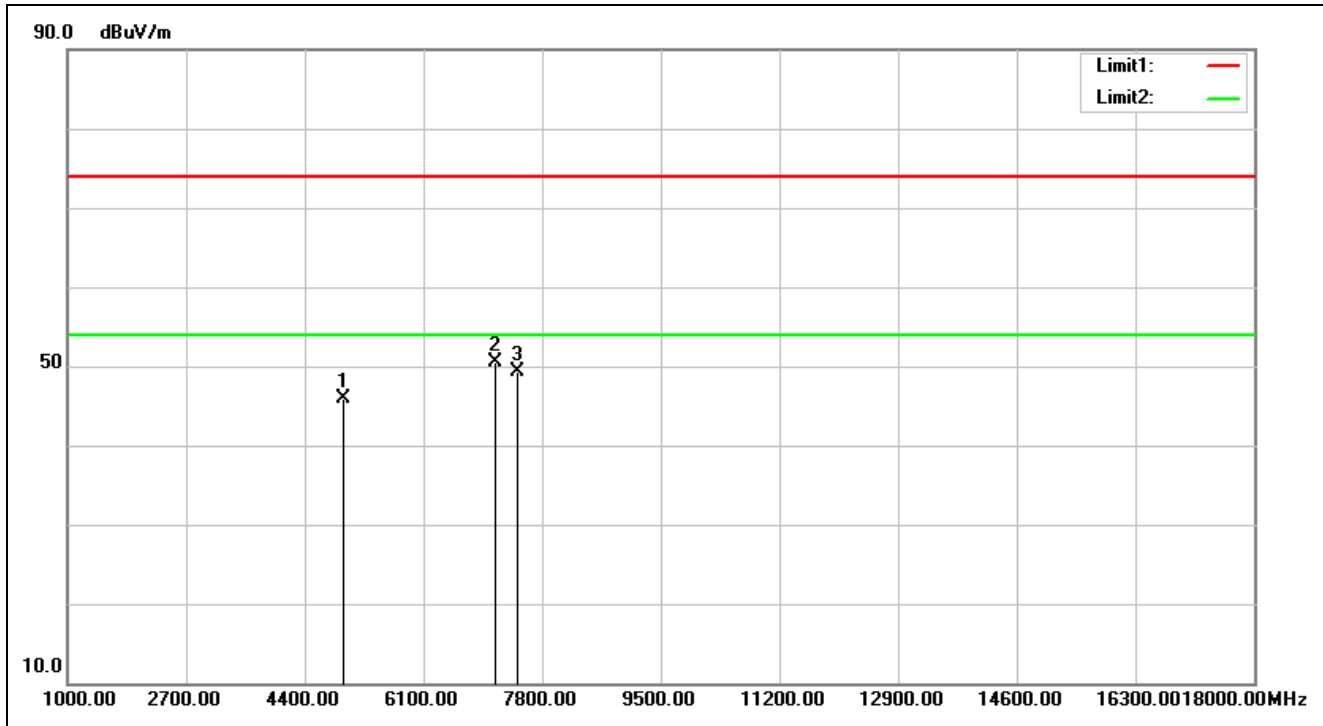
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Standard:			
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Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	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	-2.16	47.48	45.32	74.00	-28.68	peak			
2	6440.000	5.81	45.04	50.85	74.00	-23.15	peak	100	52	
3	7323.000	6.13	42.37	48.50	74.00	-25.50	peak			



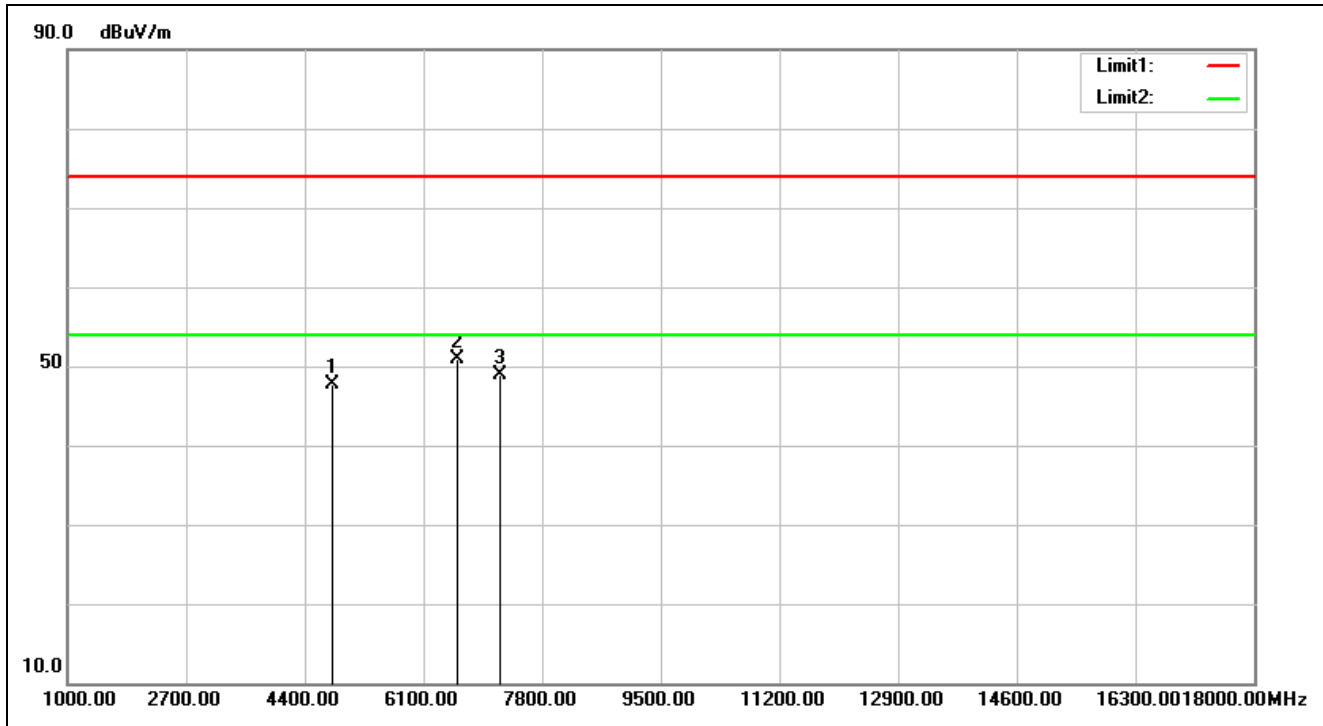
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Test item:	Radiation Emission	Test Time:	2015/9/3 21:09:17
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	1DH5-2480-TX		
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	-1.97	51.18	49.21	74.00	-24.79	peak	100	161	
2	6440.000	5.81	44.50	50.31	74.00	-23.69	peak	100	236	
3	7440.000	6.47	42.87	49.34	74.00	-24.66	peak			



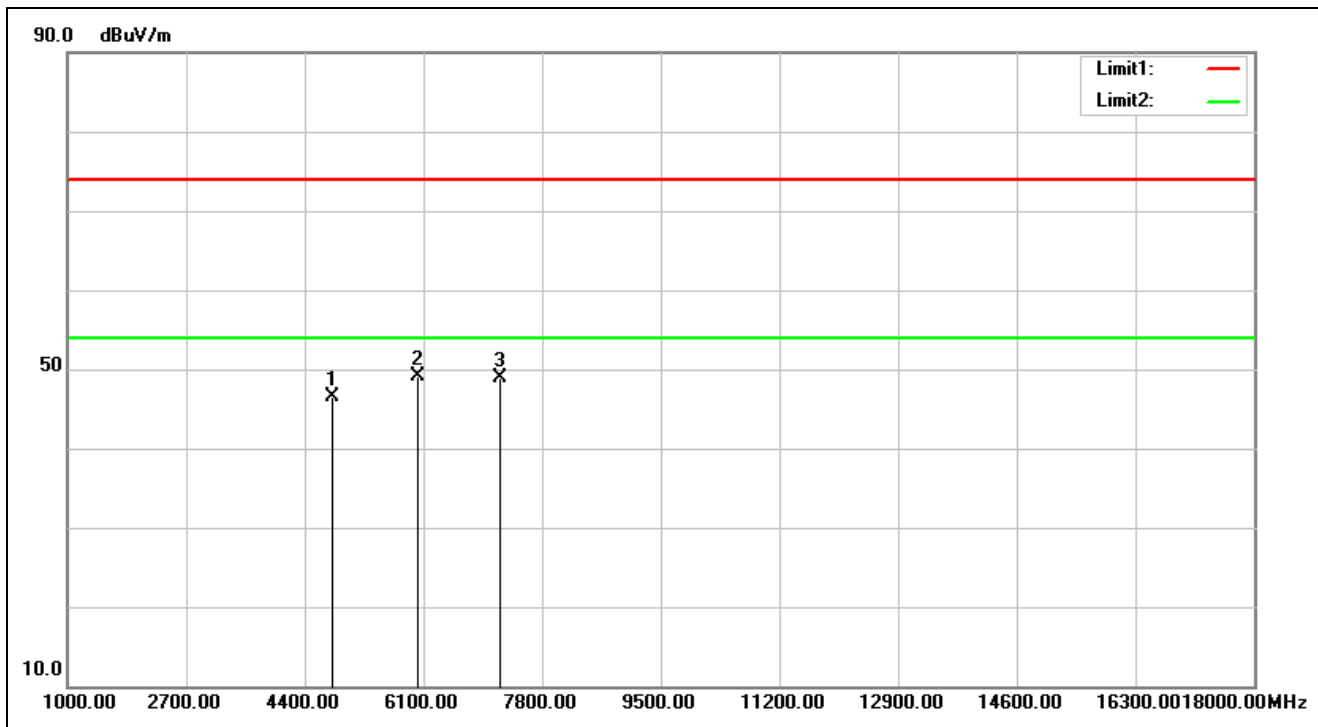
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Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:10:19
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
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	-1.97	47.93	45.96	74.00	-28.04	peak			
2	7137.000	5.57	44.85	50.42	74.00	-23.58	peak	100	6	
3	7440.000	6.47	42.86	49.33	74.00	-24.67	peak			



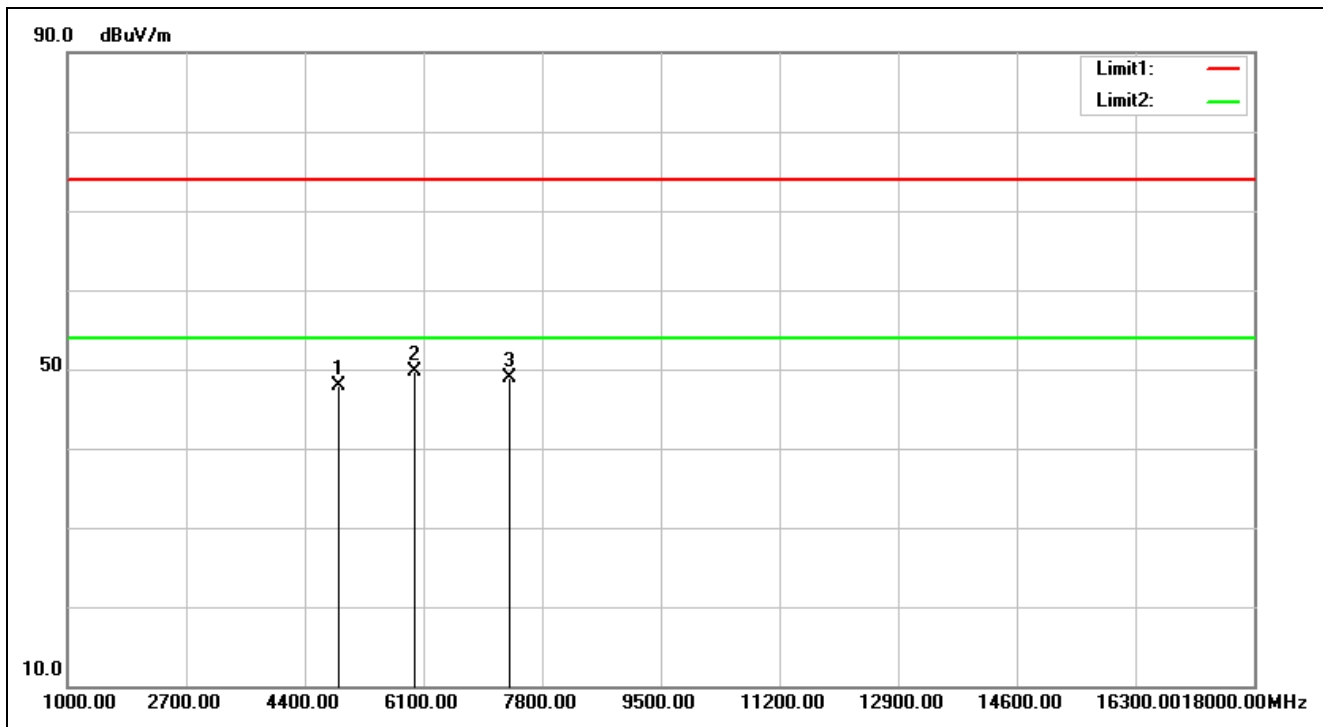
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Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:16:20
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
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	-2.35	50.10	47.75	74.00	-26.25	peak		0	
2	6593.000	5.87	44.95	50.82	74.00	-23.18	peak	100	296	
3	7206.000	5.78	43.12	48.90	74.00	-25.10	peak		0	



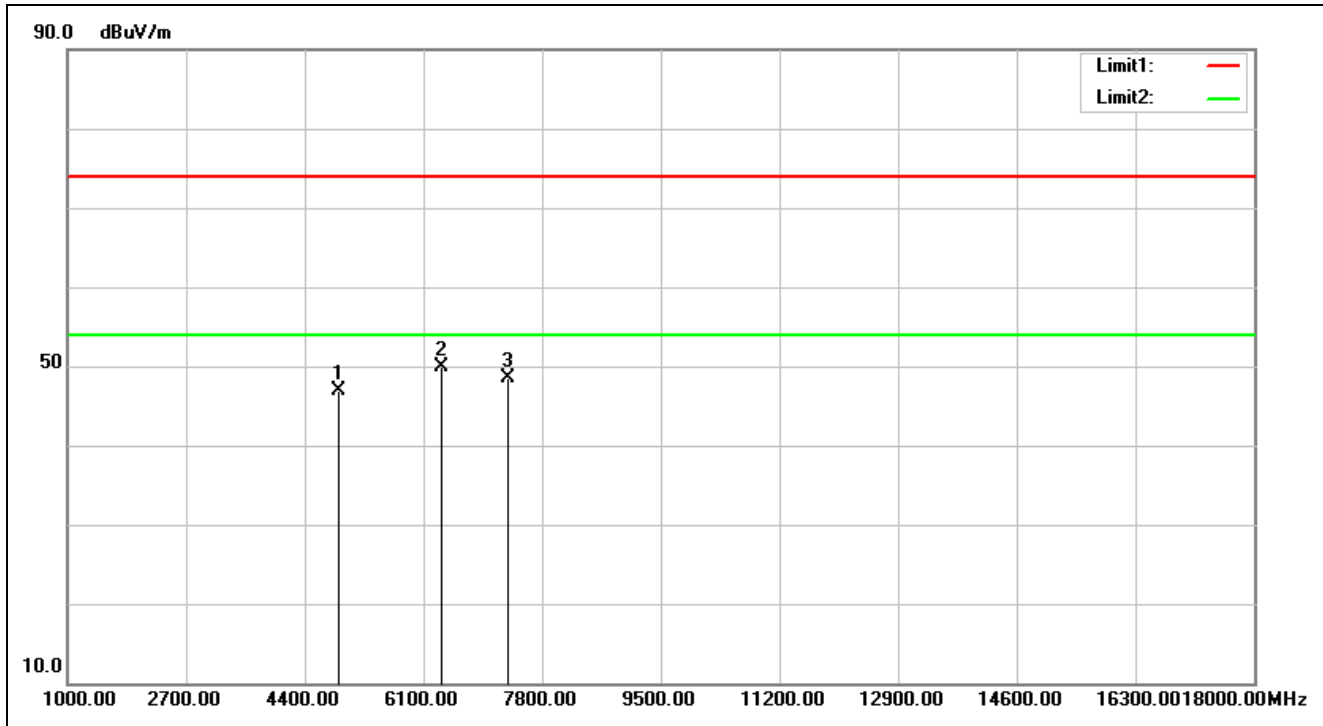
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Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:17:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	-2.35	48.83	46.48	74.00	-27.52	peak			
2	6015.000	4.14	45.02	49.16	74.00	-24.84	peak	100	272	
3	7206.000	5.78	43.14	48.92	74.00	-25.08	peak			



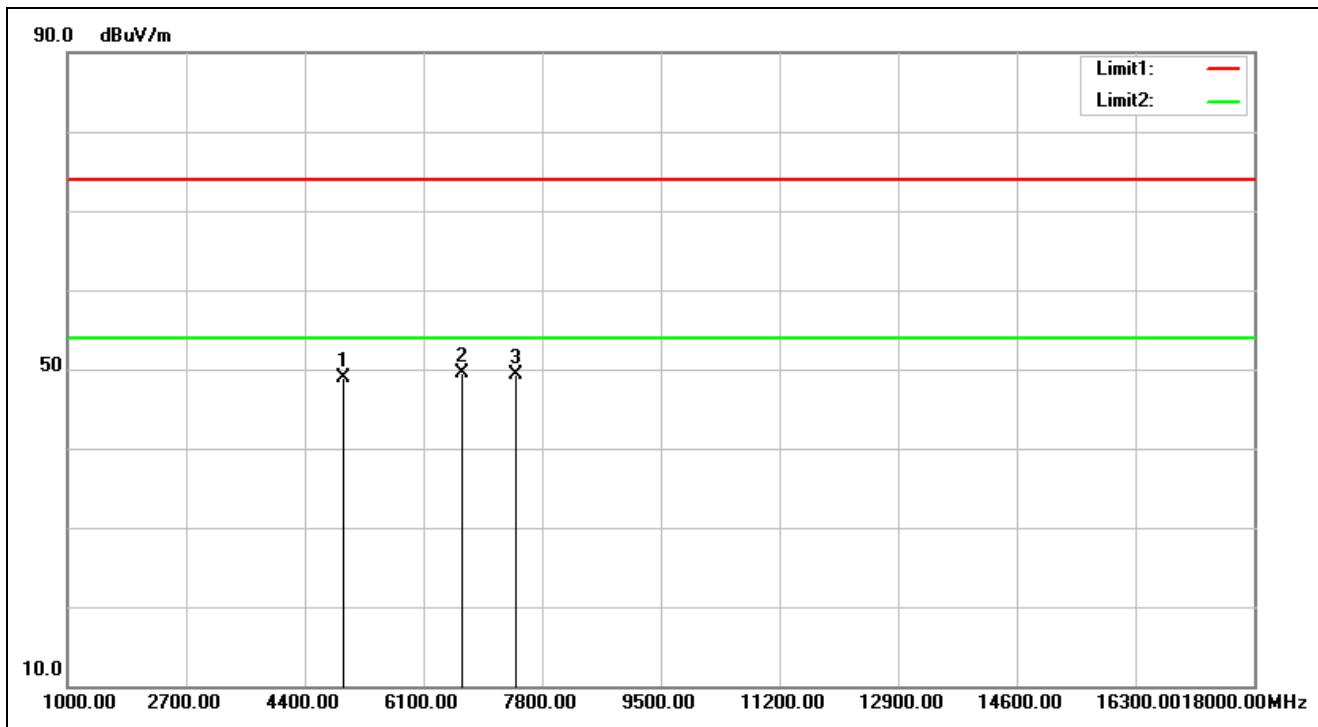
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Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:20:58
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
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	-2.16	50.00	47.84	74.00	-26.16	peak	100	163	
2	5981.000	3.95	45.80	49.75	74.00	-24.25	peak	100	8	
3	7323.000	6.13	42.87	49.00	74.00	-25.00	peak			



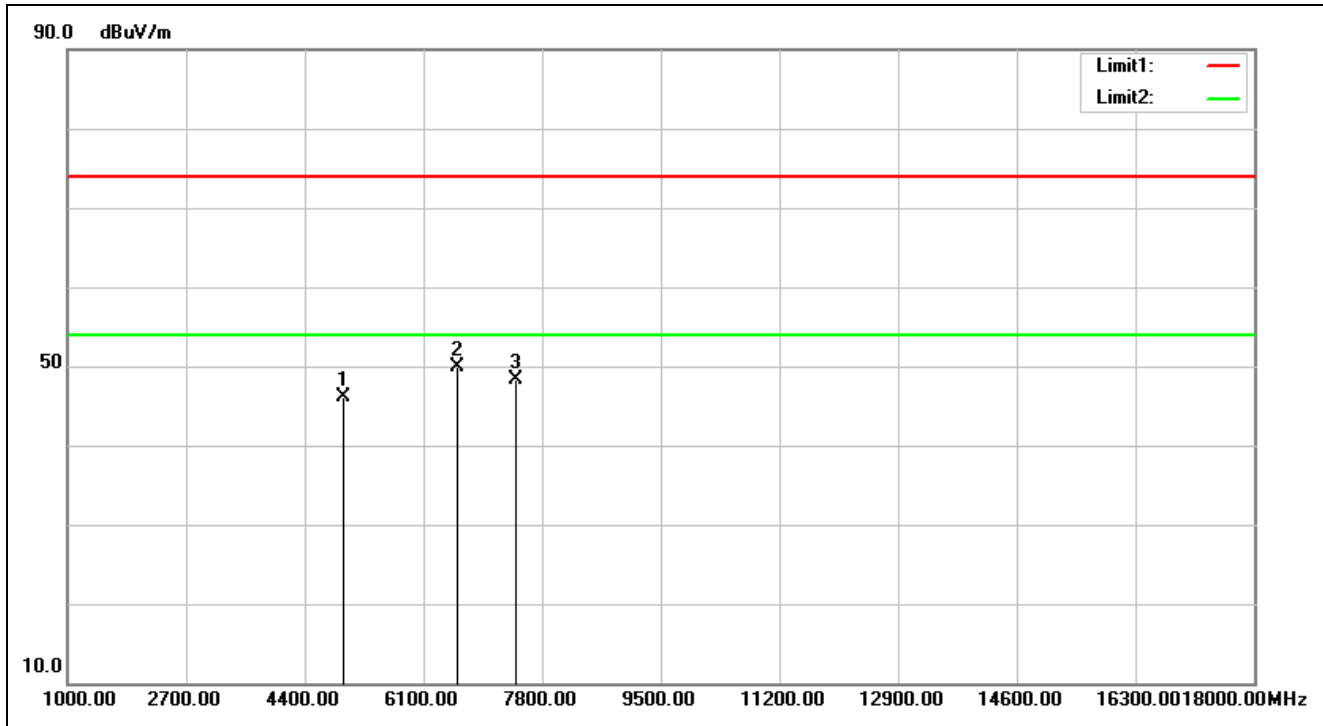
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Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:22:00
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
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	-2.16	49.00	46.84	74.00	-27.16	peak	100	217	
2	6355.000	5.47	44.41	49.88	74.00	-24.12	peak	100	322	
3	7323.000	6.13	42.40	48.53	74.00	-25.47	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:25:06
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	-1.97	50.82	48.85	74.00	-25.15	peak			
2	6644.000	5.79	43.77	49.56	74.00	-24.44	peak	100	240	
3	7440.000	6.47	42.92	49.39	74.00	-24.61	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:26:08
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	-1.97	48.09	46.12	74.00	-27.88	peak			
2	6576.000	5.91	43.92	49.83	74.00	-24.17	peak	100	186	
3	7440.000	6.47	41.79	48.26	74.00	-25.74	peak			

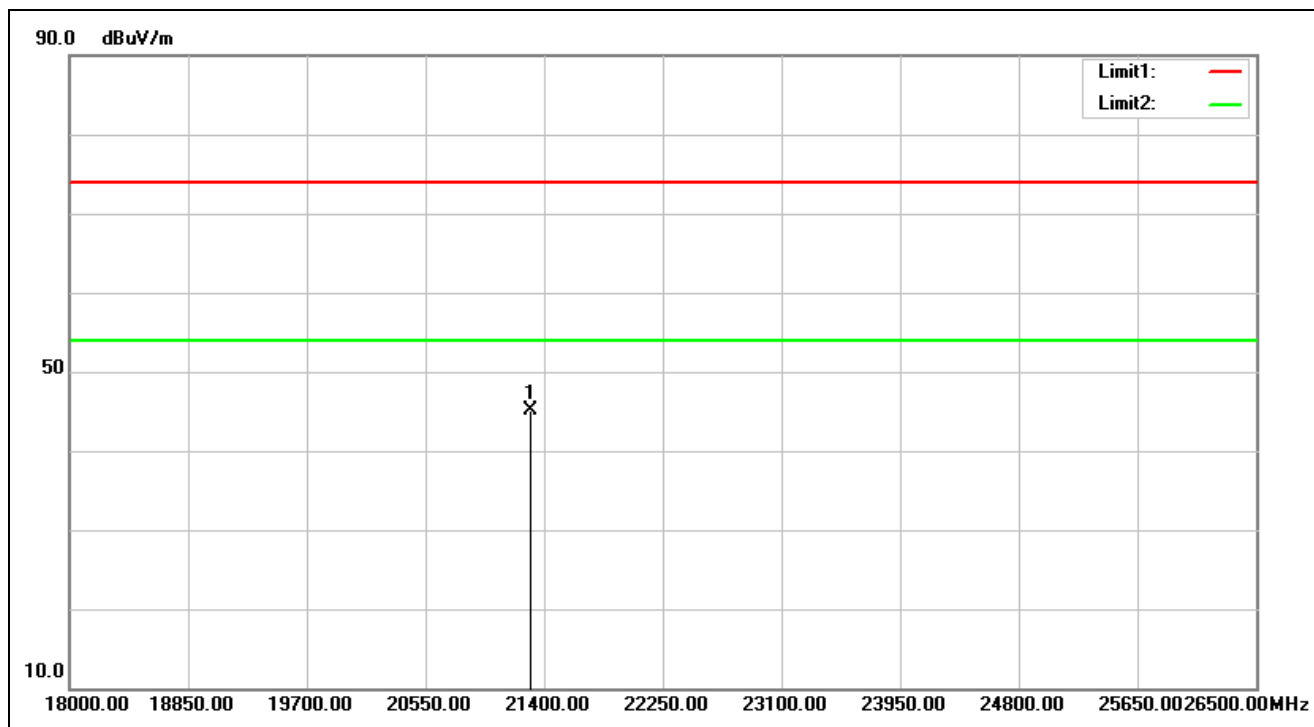
Spurious Emissions, TX Mode, 18-26G



TUV Taiwan

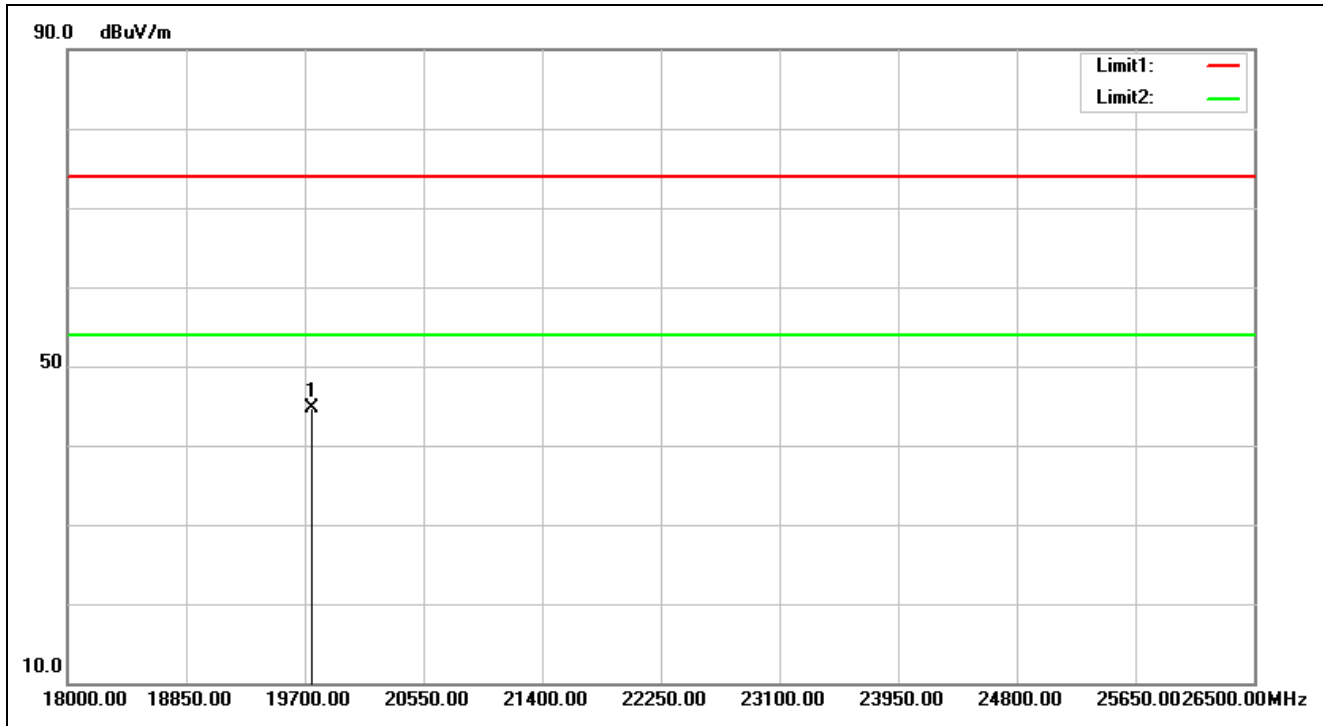
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



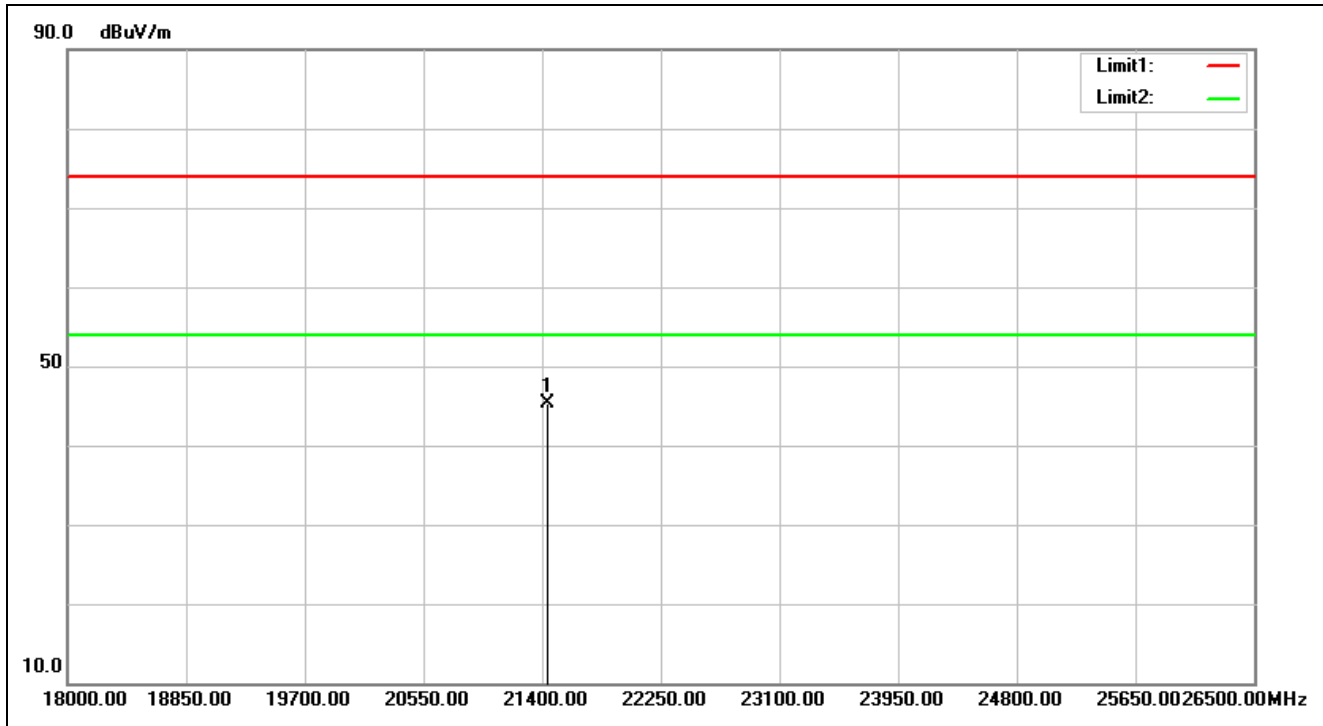
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:23:19
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	21306.500	29.09	16.05	45.14	74.00	-28.86	peak		0	



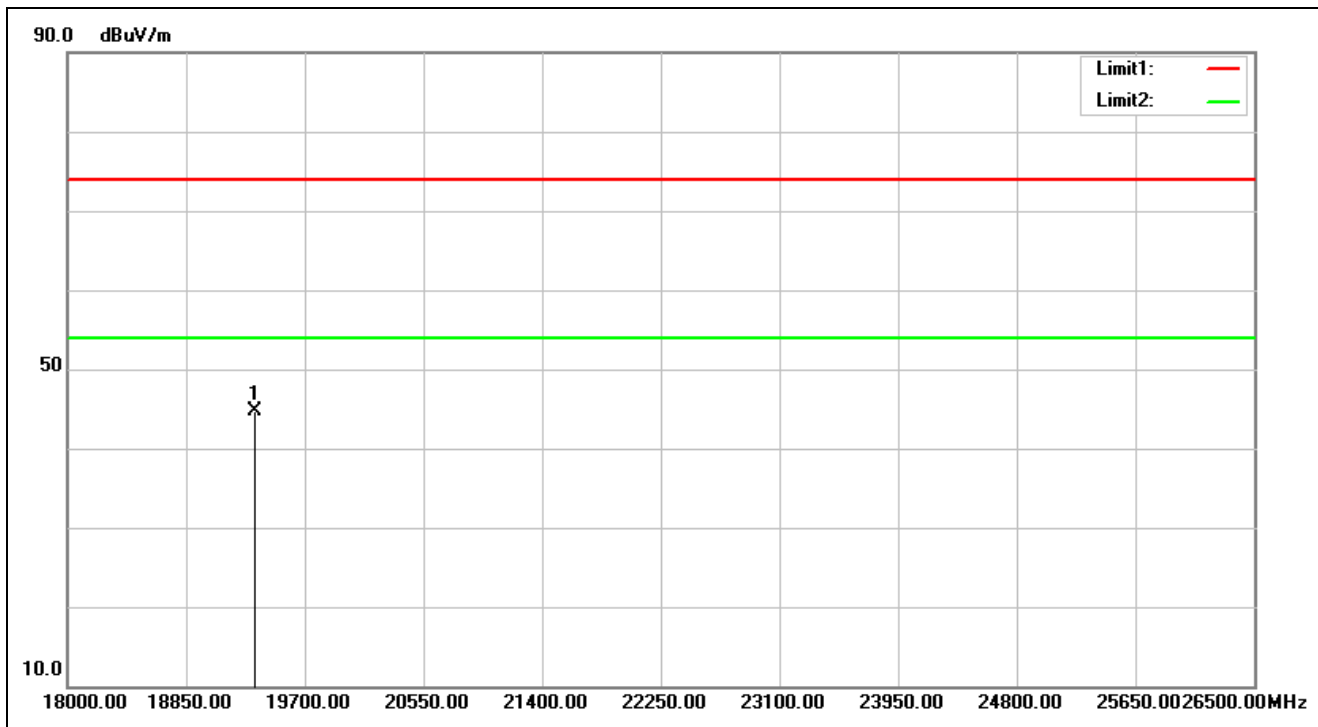
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Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:23:45
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19751.000	28.93	15.87	44.80	74.00	-29.20	peak			



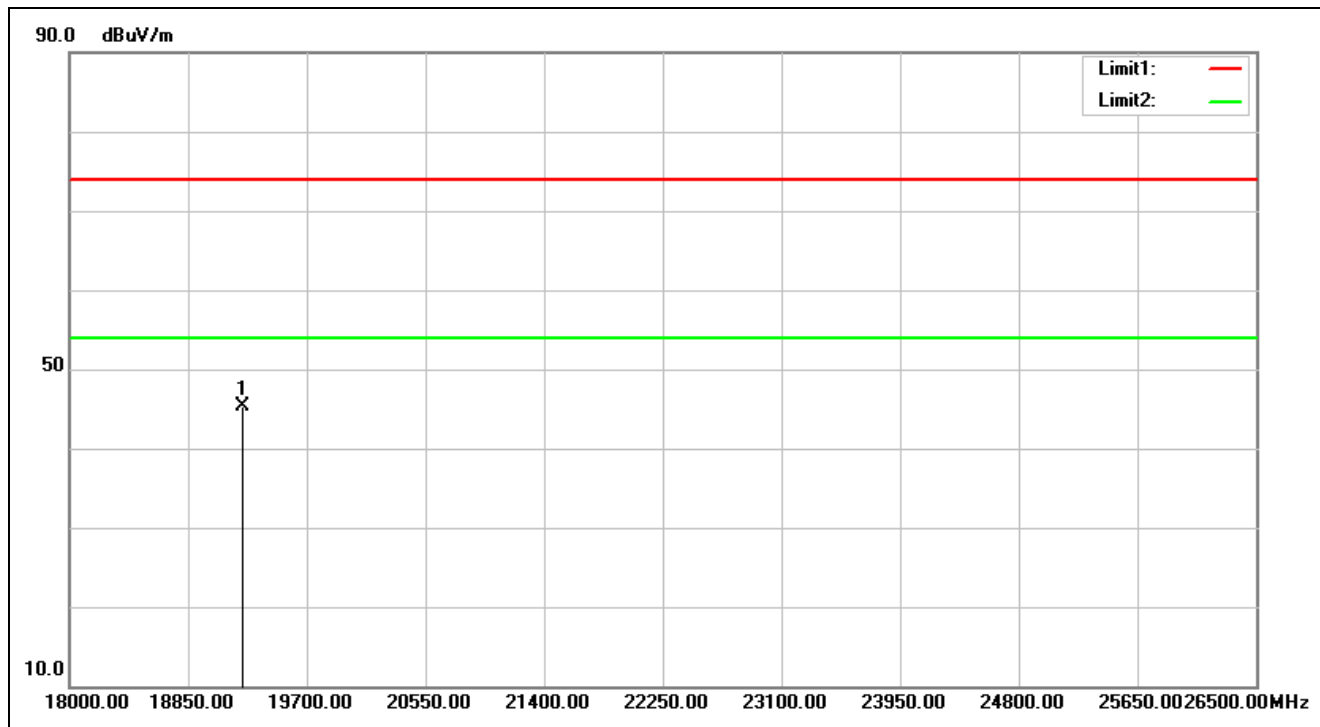
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Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:24:04
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	21434.000	28.98	16.24	45.22	74.00	-28.78	peak			



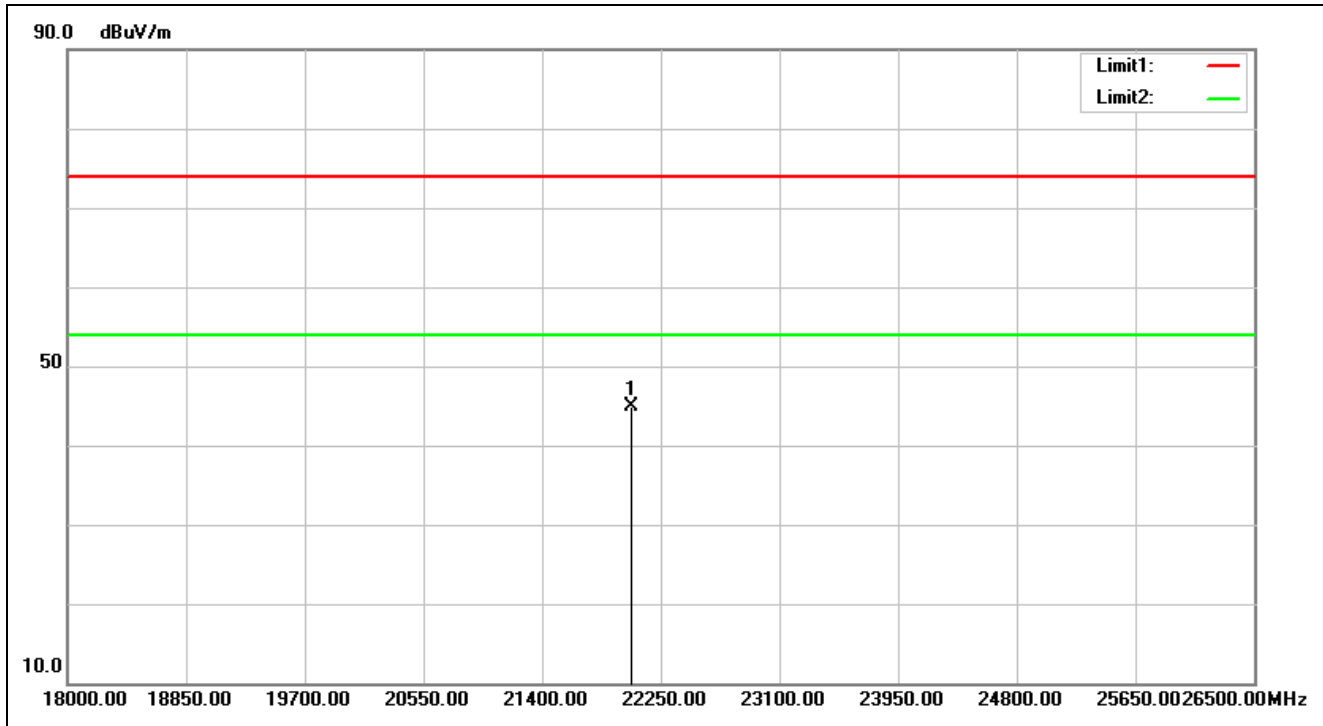
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:24:16
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19343.000	28.94	15.74	44.68	74.00	-29.32	peak			



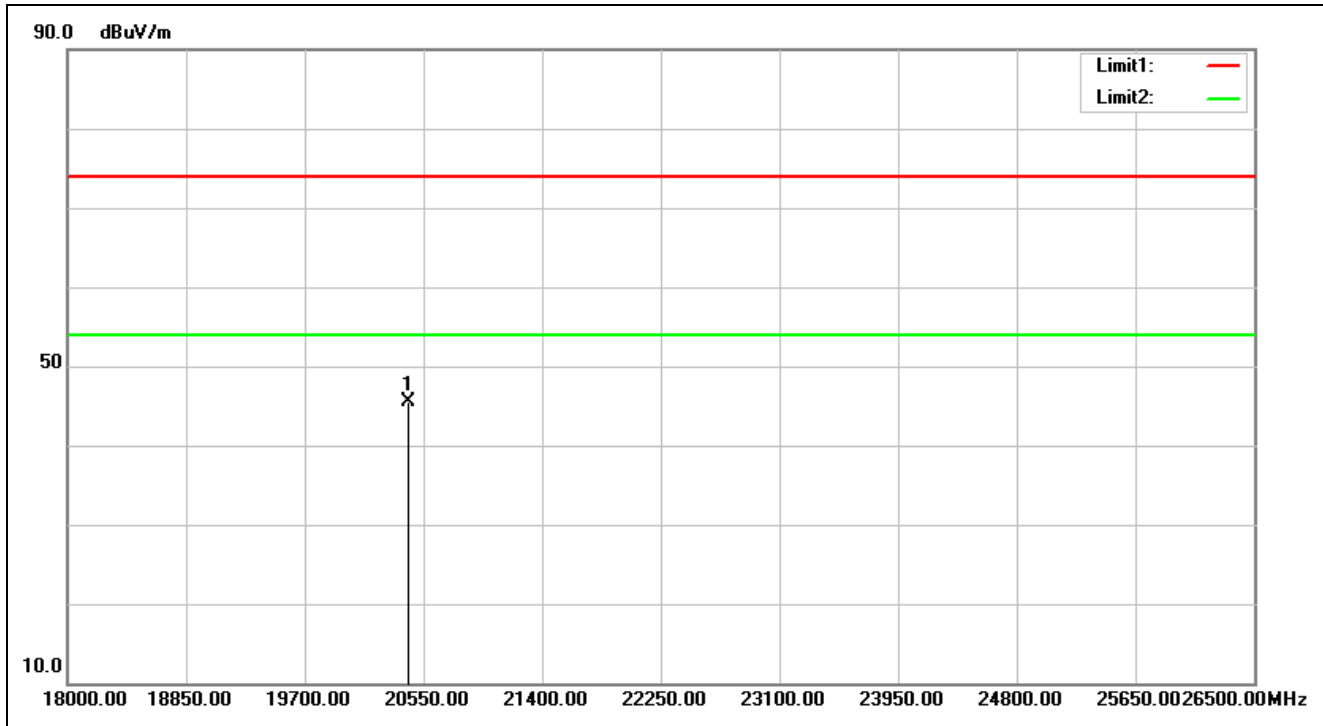
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:24:40
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19241.000	28.92	16.41	45.33	74.00	-28.67	peak			



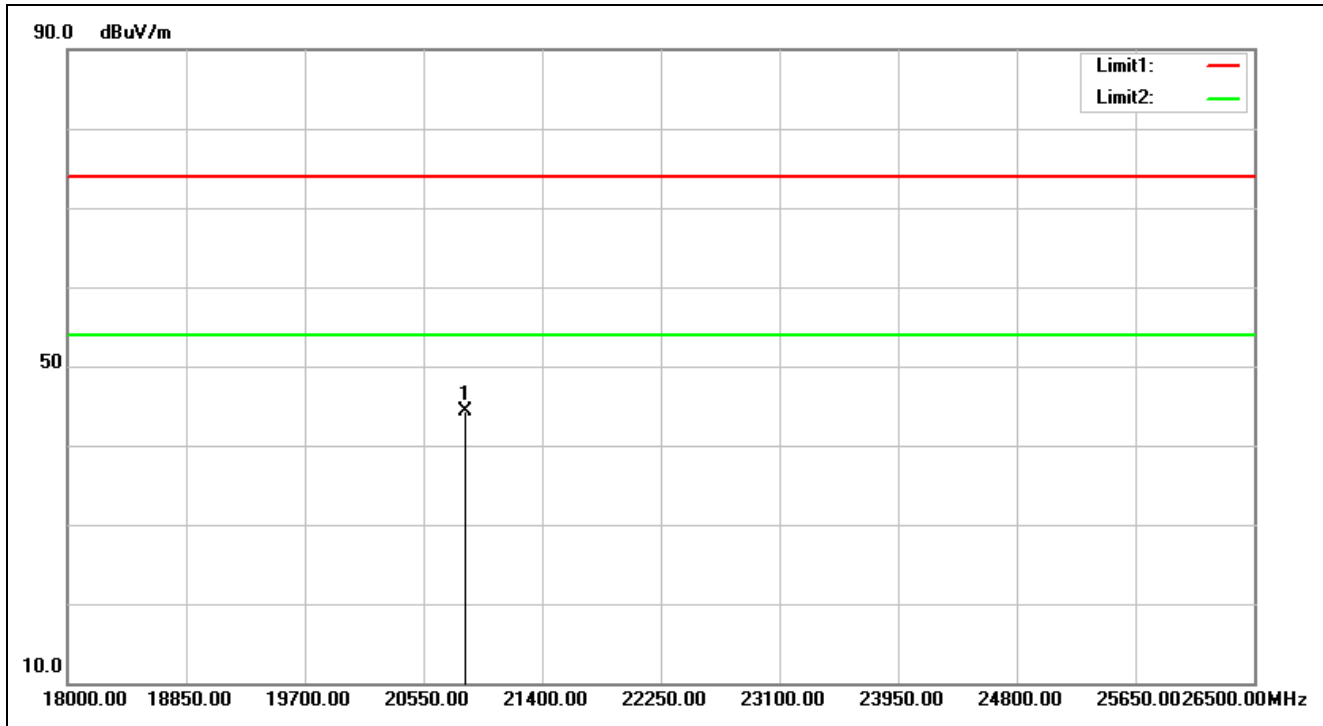
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:24:51
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	22037.500	28.49	16.43	44.92	74.00	-29.08	peak			



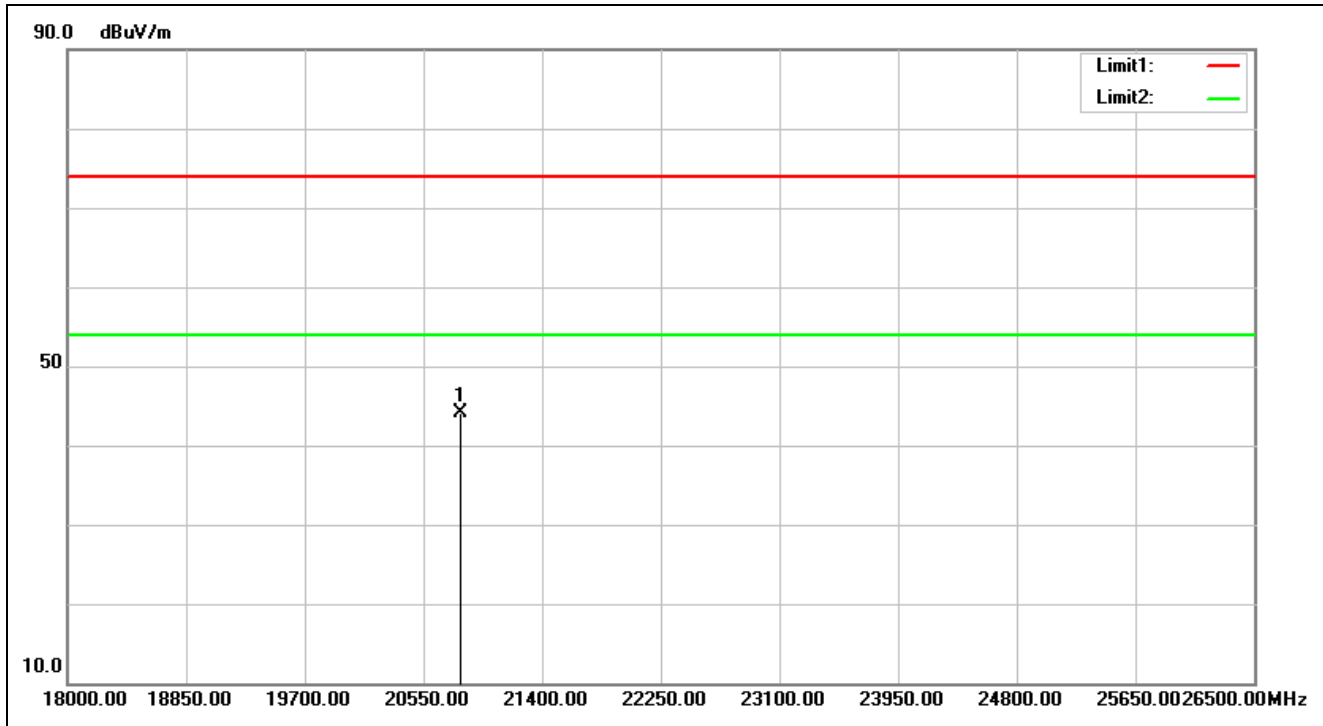
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:25:13
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20439.500	29.20	16.28	45.48	74.00	-28.52	peak			



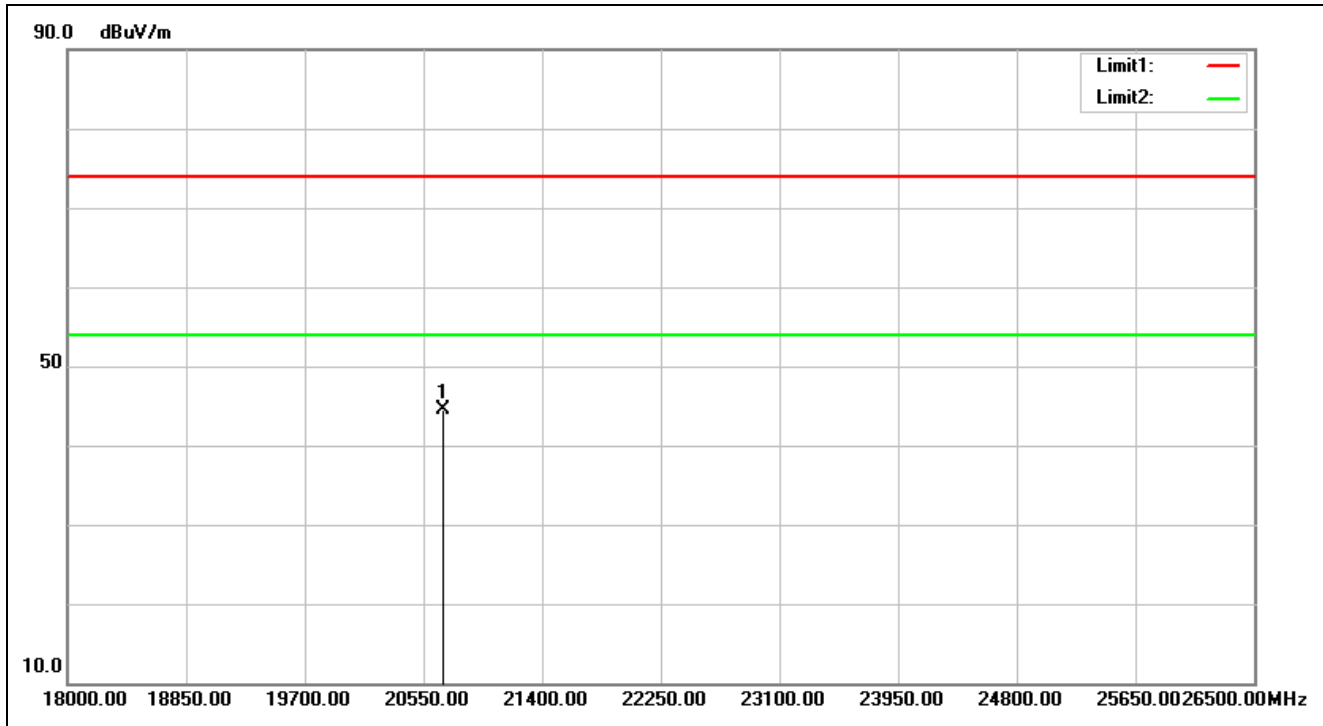
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:25:23
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20847.500	29.32	14.92	44.24	74.00	-29.76	peak			



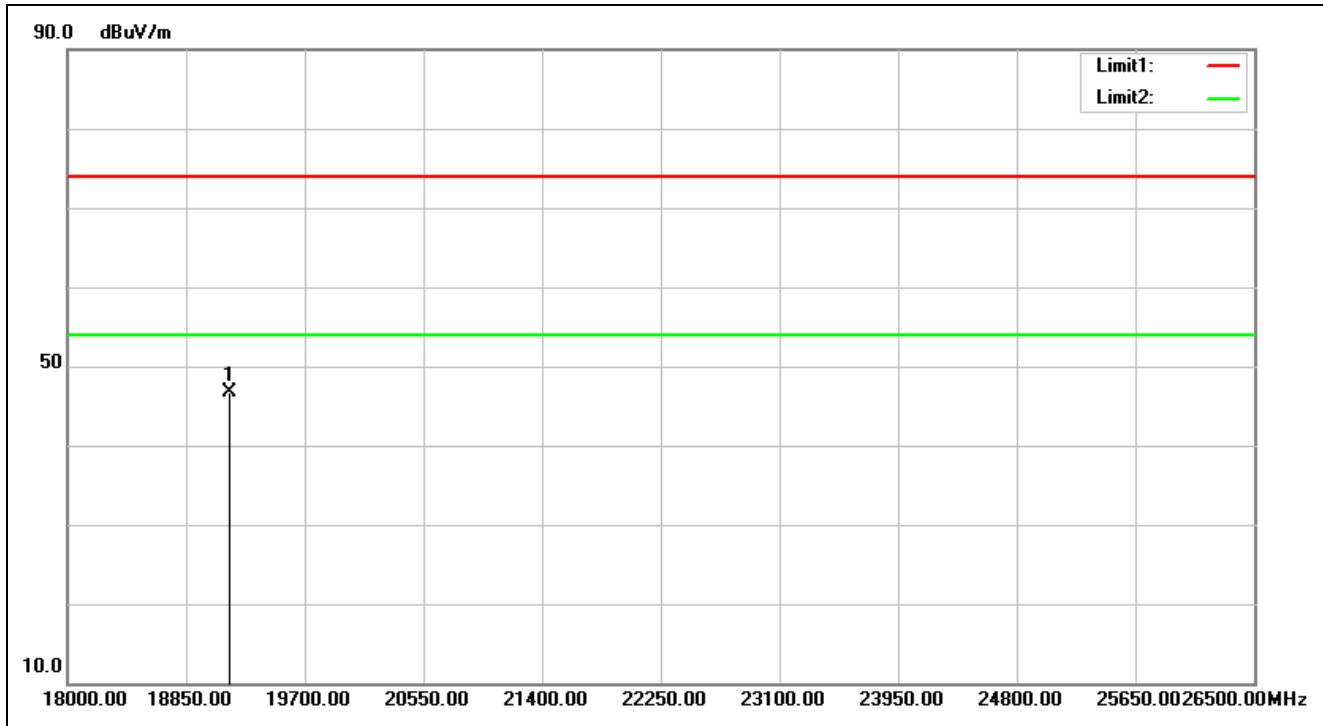
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:25:44
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20813.500	29.31	14.83	44.14	74.00	-29.86	peak			



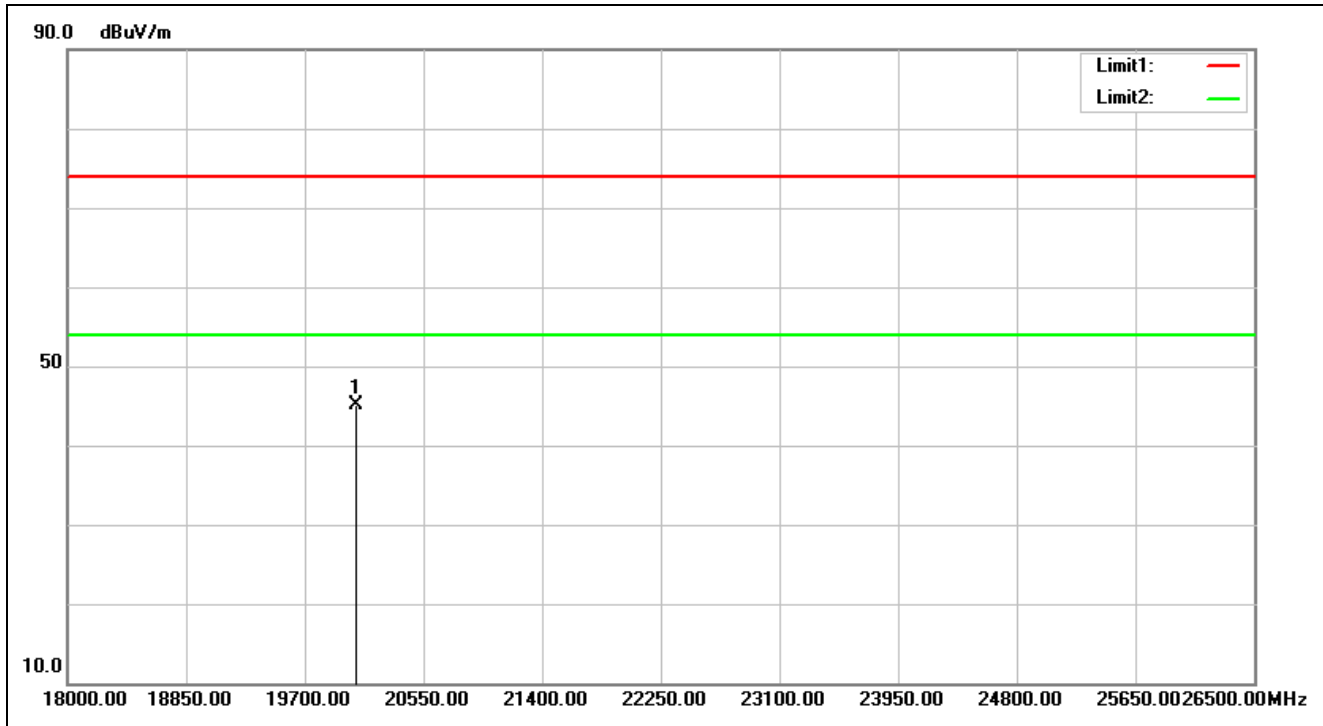
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:26:03
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20686.000	29.29	15.26	44.55	74.00	-29.45	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:26:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19156.000	28.90	17.80	46.70	74.00	-27.30	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:26:52
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20065.500	28.97	16.10	45.07	74.00	-28.93	peak			

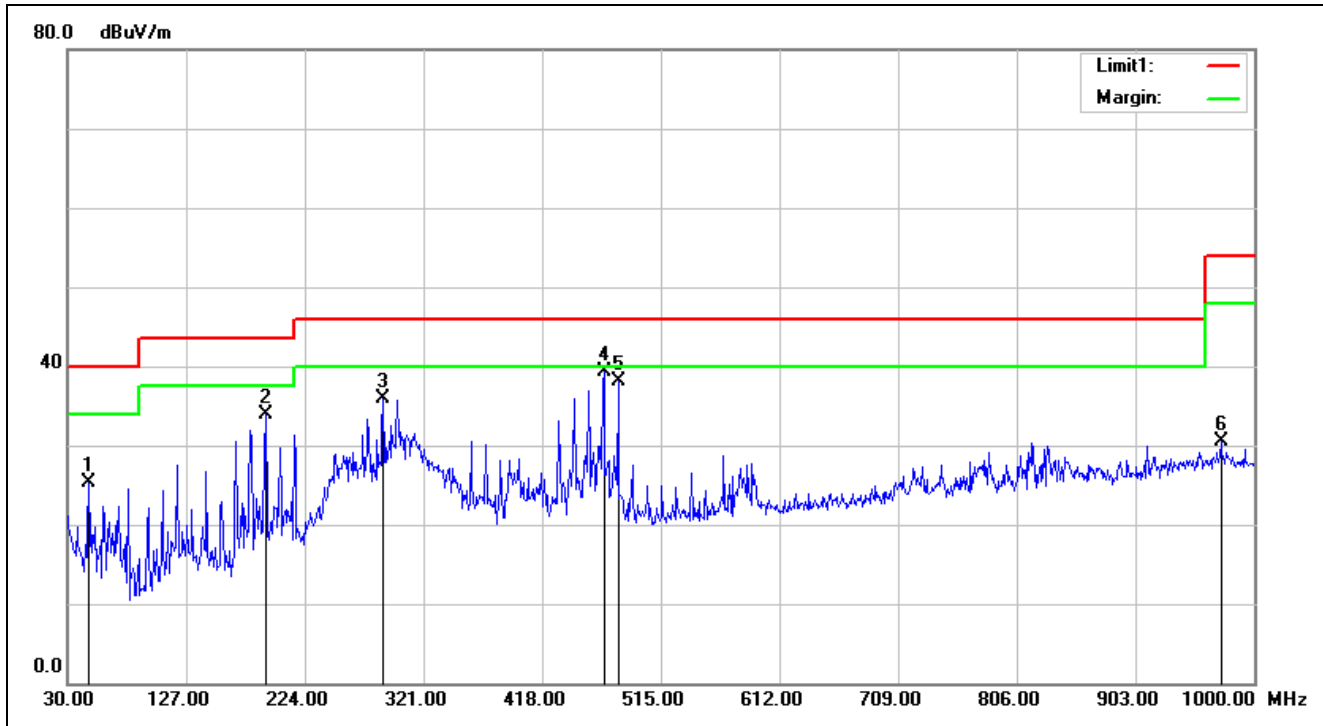
Spurious Emissions, TX Mode, 30M-1G



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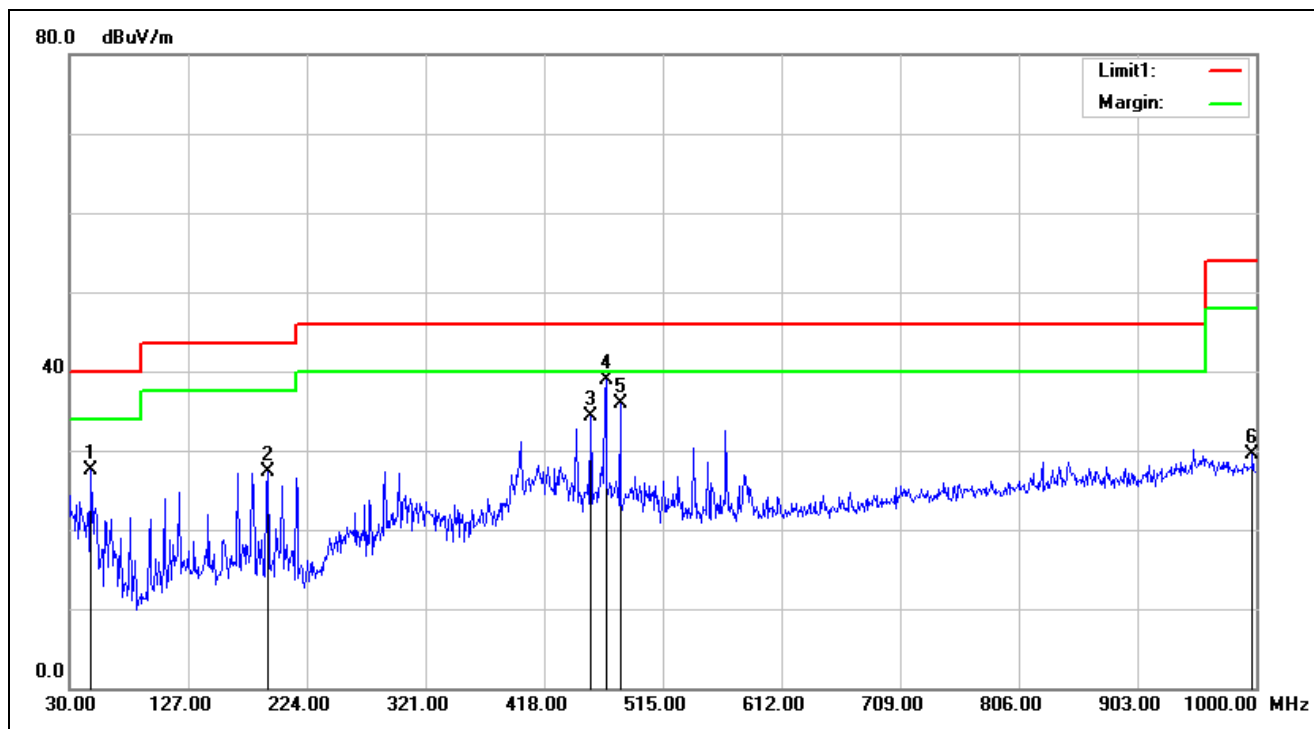
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/4 19:29:45
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	22.6(°C)/59%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	47.4600	-17.46	42.81	25.35	40.00	-14.65	QP	100	151	
2	191.9900	-16.87	50.87	34.00	43.50	-9.50	QP	100	248	
3	288.0200	-12.35	48.20	35.85	46.00	-10.15	QP	100	151	
4	468.4400	-9.08	48.31	39.23	46.00	-6.77	QP	100	234	
5	480.0800	-8.90	46.96	38.06	46.00	-7.94	QP	100	75	
6	972.8400	-1.21	31.66	30.45	54.00	-23.55	QP	100	218	

Spurious Emissions, RX Mode, 1-18G



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/4 19:30:47
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	22.6(°C)/59%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	47.4600	-17.46	44.99	27.53	40.00	-12.47	QP	100	212	
2	191.9900	-16.87	44.17	27.30	43.50	-16.20	QP	100	154	
3	455.8300	-9.26	43.56	34.30	46.00	-11.70	QP	100	140	
4	468.4400	-9.08	47.94	38.86	46.00	-7.14	QP	100	121	
5	480.0800	-8.90	44.82	35.92	46.00	-10.08	QP	100	134	
6	997.0900	-1.24	30.70	29.46	54.00	-24.54	QP	100	103	

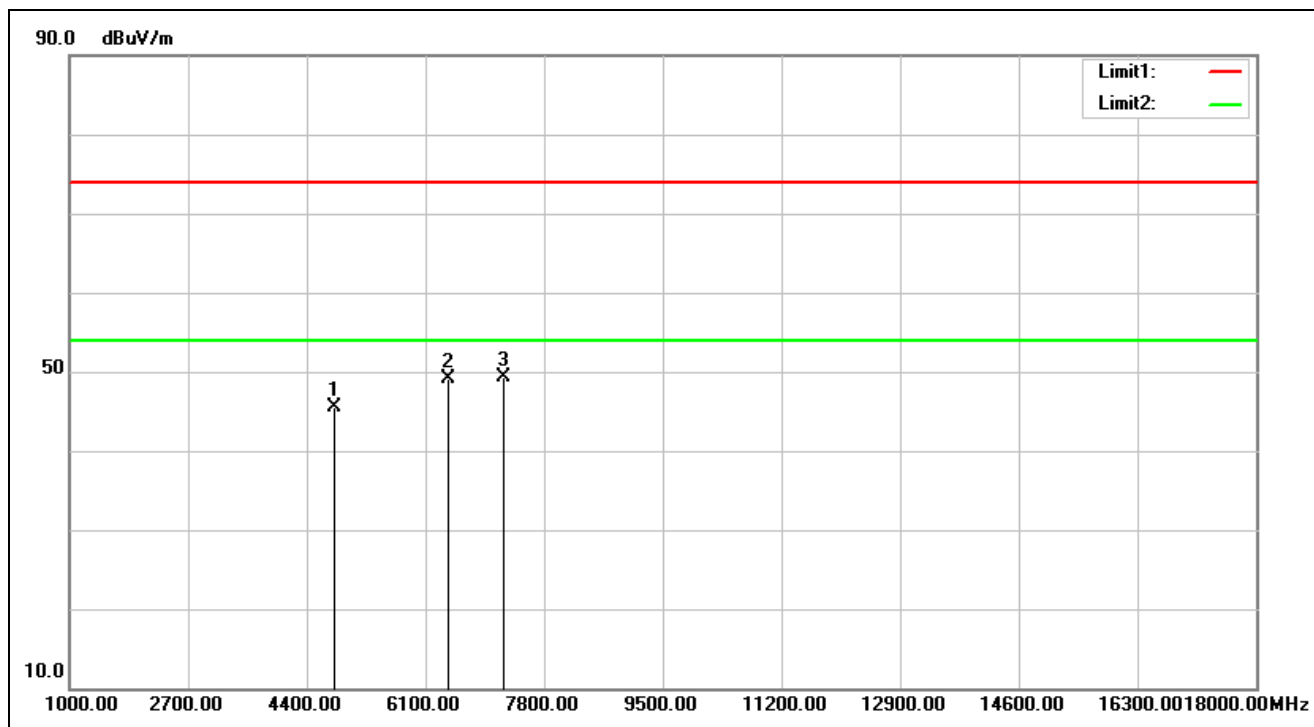
Spurious Emissions, RX Mode, 1-18G



TUV Taiwan

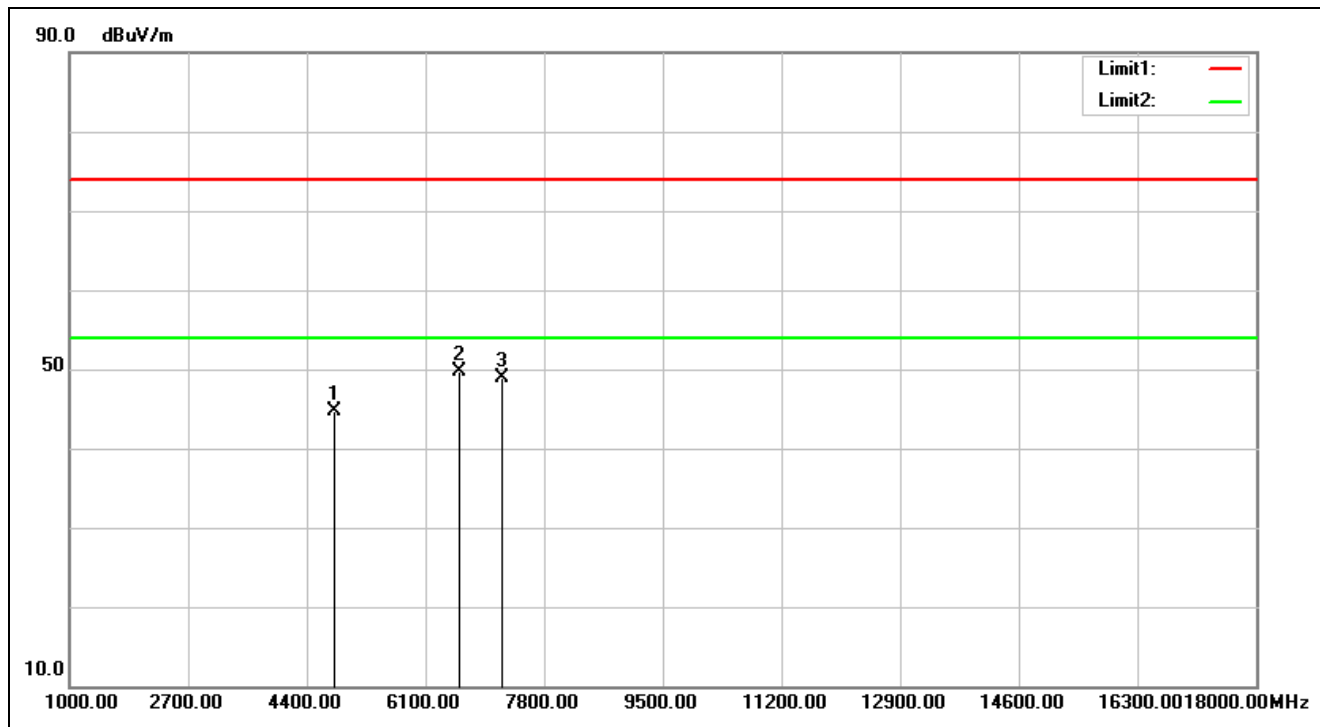
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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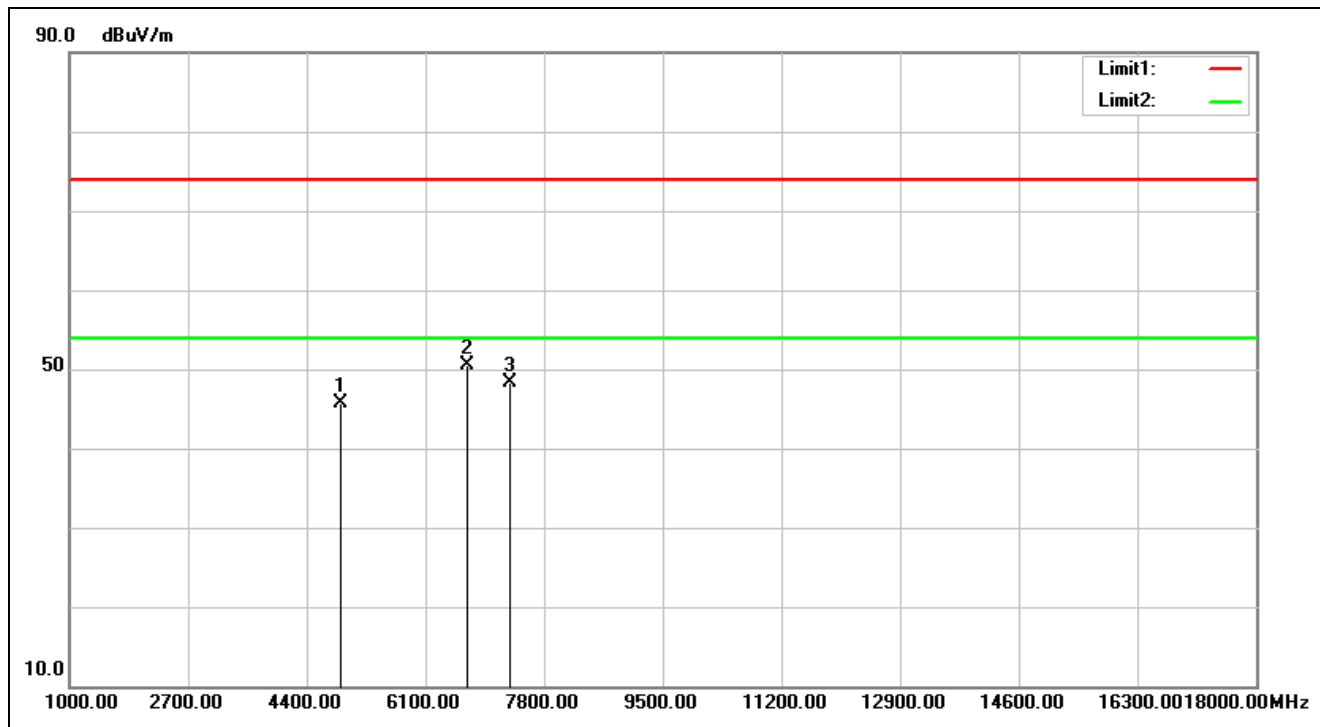
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:30:44
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	4804.000	-2.35	47.78	45.43	74.00	-28.57	peak		0	
2	6423.000	5.74	43.42	49.16	74.00	-24.84	peak	100	205	
3	7206.000	5.78	43.56	49.34	74.00	-24.66	peak		0	



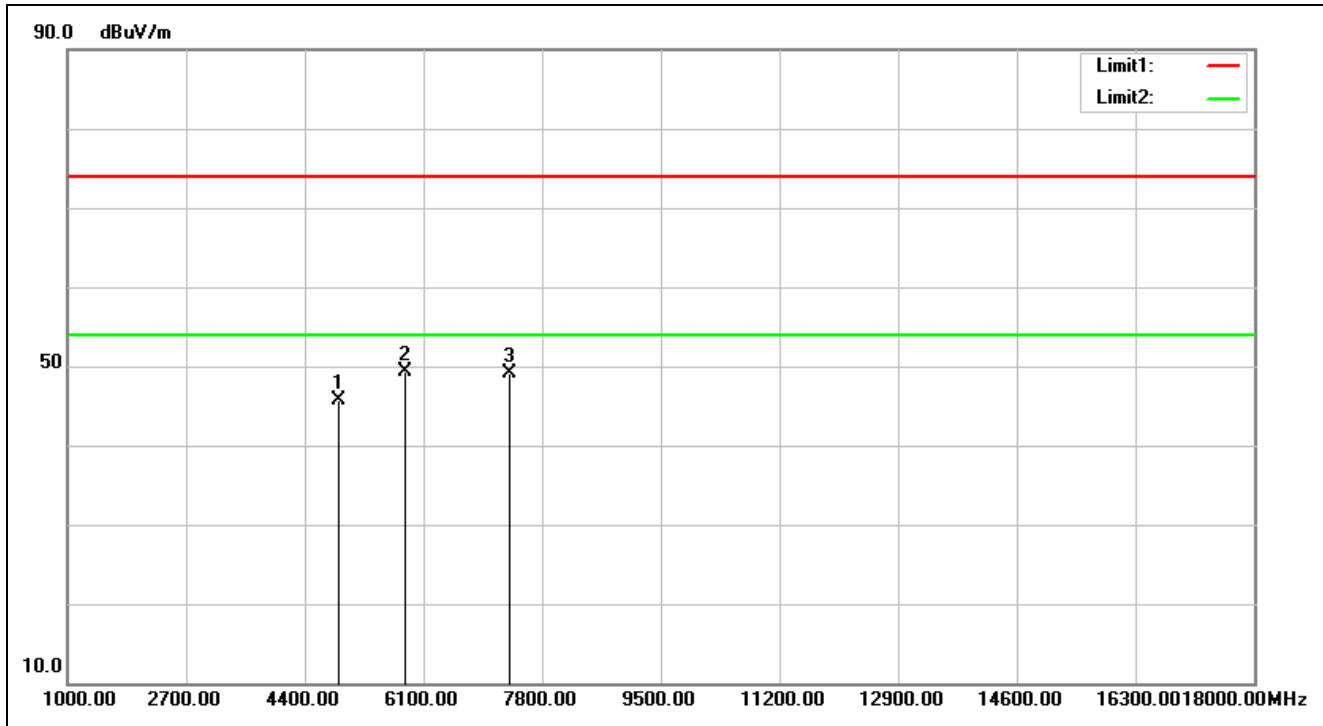
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:31:46
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	4804.000	-2.35	47.02	44.67	74.00	-29.33	peak			
2	6593.000	5.87	43.91	49.78	74.00	-24.22	peak	100	12	
3	7206.000	5.78	43.10	48.88	74.00	-25.12	peak			



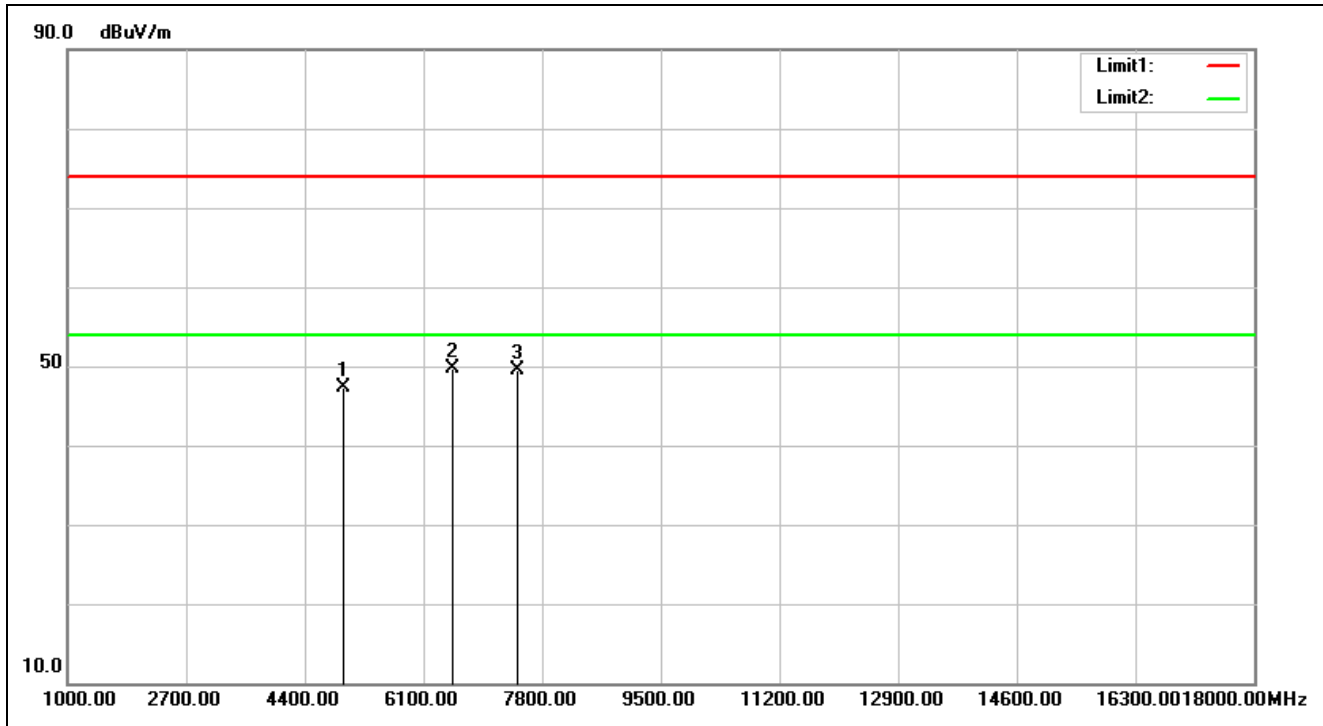
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:34:26
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	4882.000	-2.16	47.79	45.63	74.00	-28.37	peak			
2	6695.000	5.70	44.76	50.46	74.00	-23.54	peak	100	290	
3	7323.000	6.13	42.11	48.24	74.00	-25.76	peak			



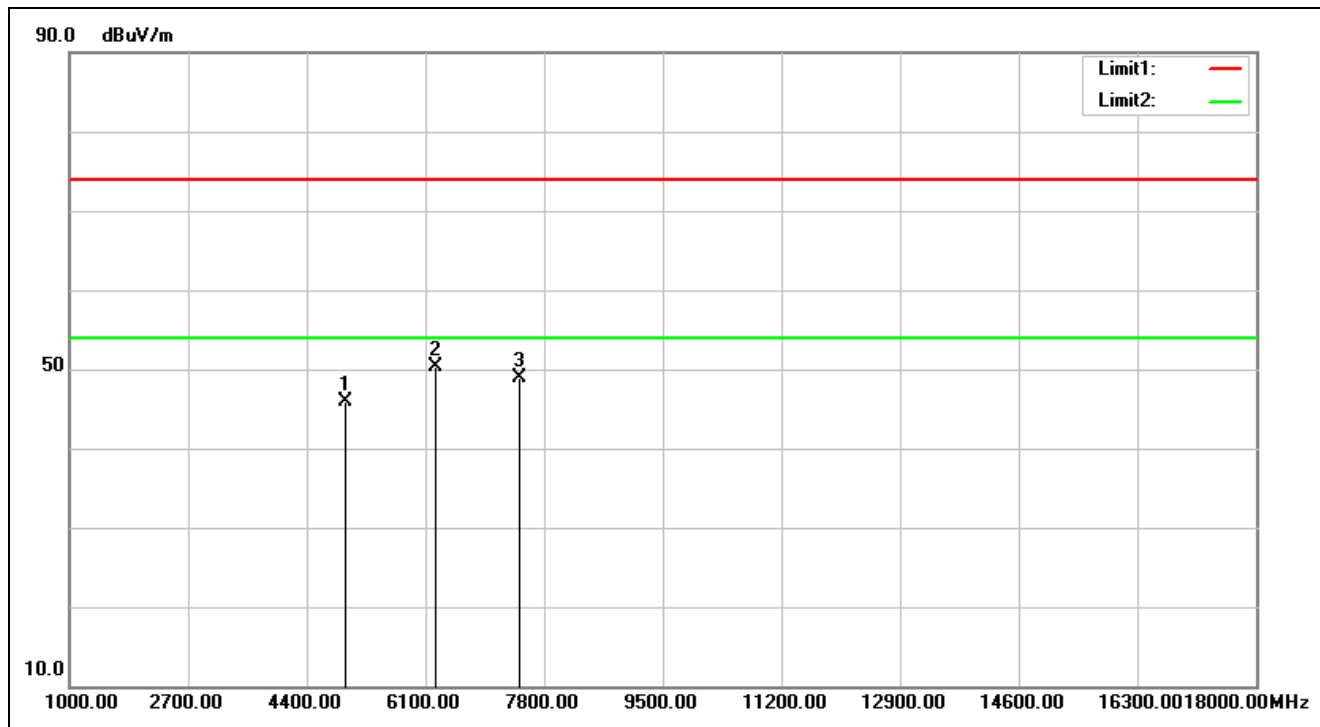
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:35:28
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	4882.000	-2.16	47.86	45.70	74.00	-28.30	peak			
2	5828.000	2.96	46.40	49.36	74.00	-24.64	peak	100	139	
3	7323.000	6.13	42.94	49.07	74.00	-24.93	peak			



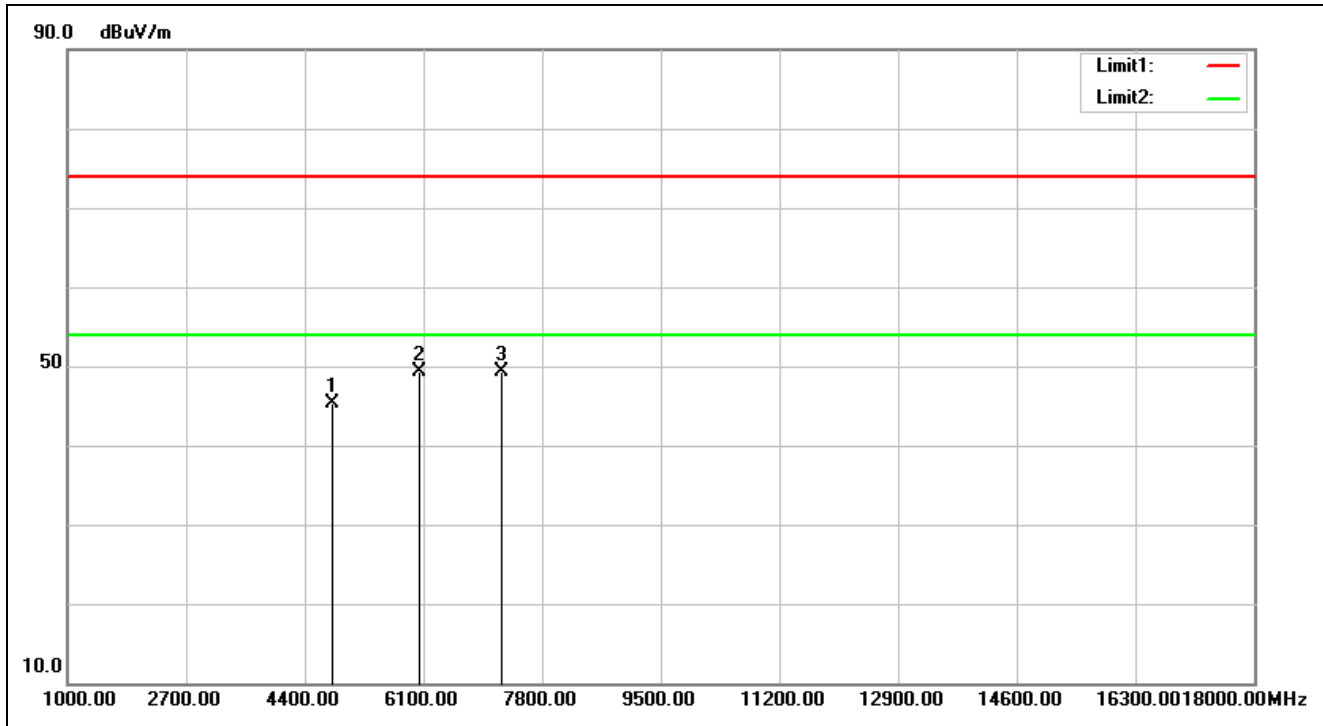
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:37:28
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	4960.000	-1.97	49.31	47.34	74.00	-26.66	peak			
2	6525.000	6.00	43.66	49.66	74.00	-24.34	peak	100	31	
3	7440.000	6.47	43.12	49.59	74.00	-24.41	peak			



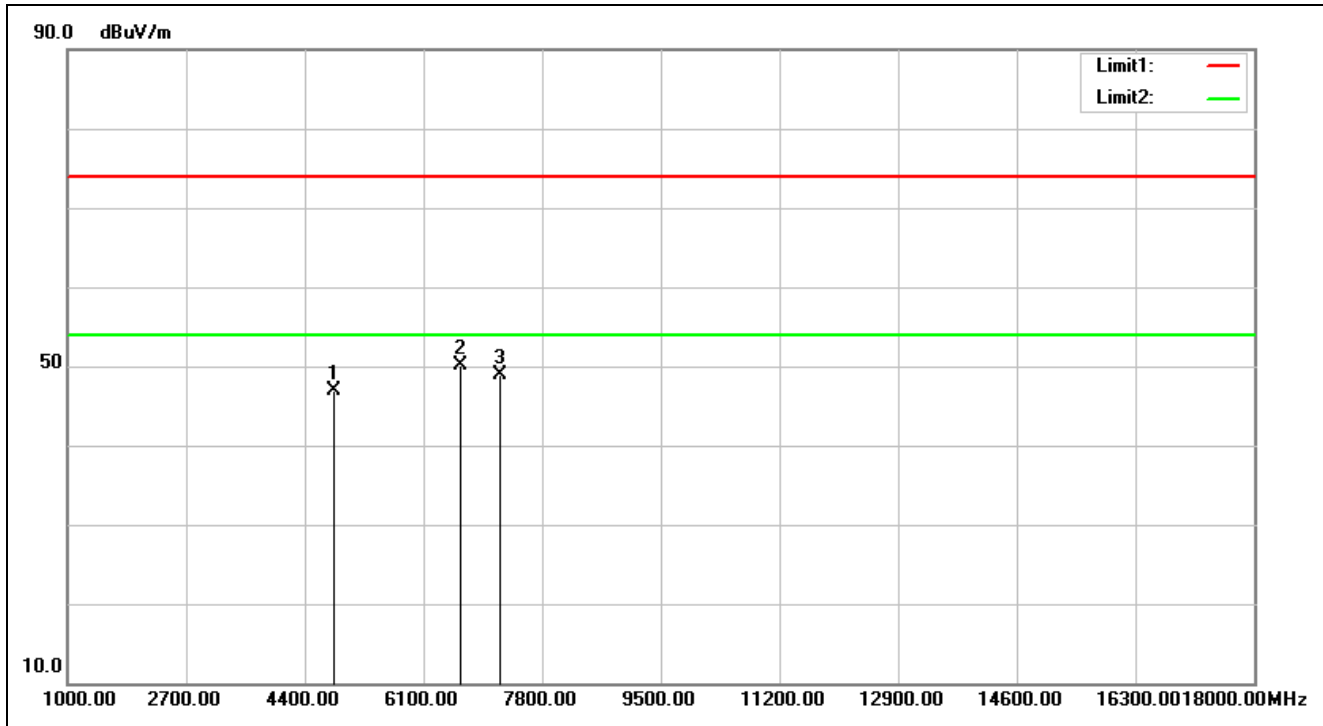
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:38:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	4960.000	-1.97	47.80	45.83	74.00	-28.17	peak			
2	6236.000	5.00	45.39	50.39	74.00	-23.61	peak	100	335	
3	7440.000	6.47	42.35	48.82	74.00	-25.18	peak			



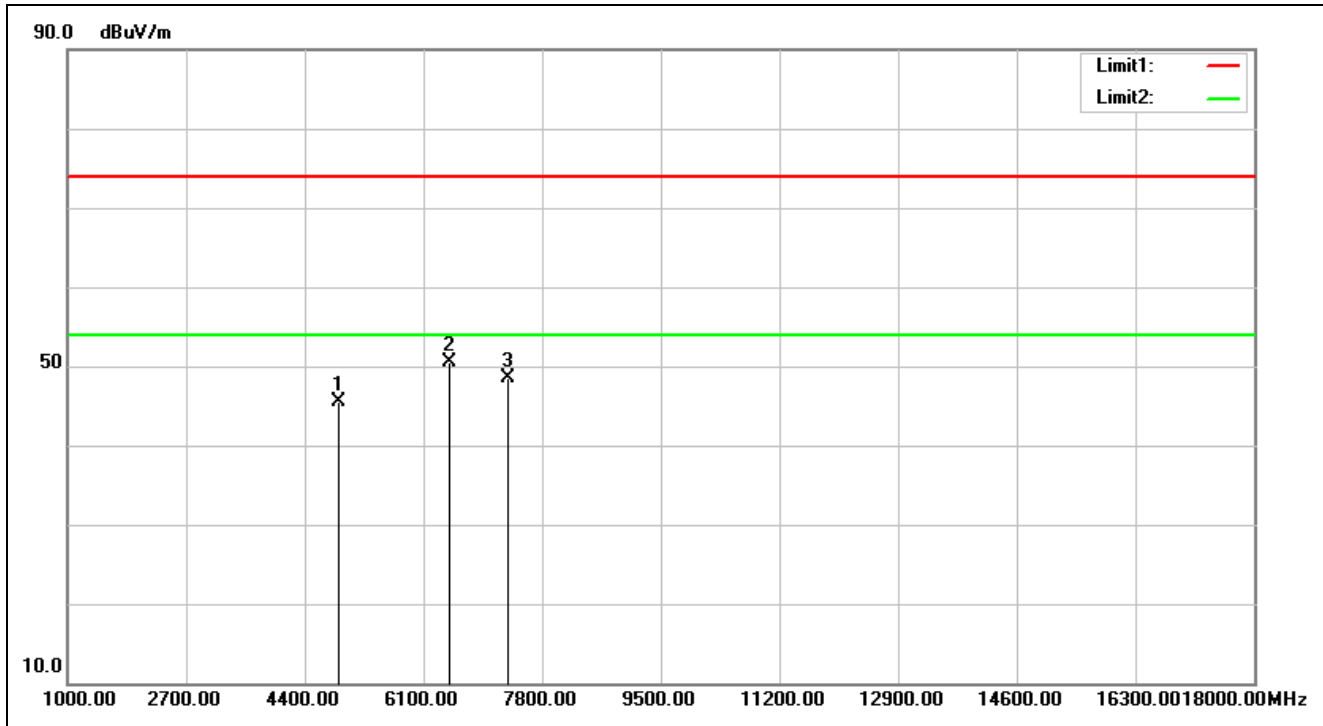
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:40:28
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	47.62	45.27	74.00	-28.73	peak			
2	6049.000	4.27	45.02	49.29	74.00	-24.71	peak	100	263	
3	7206.000	5.78	43.56	49.34	74.00	-24.66	peak			



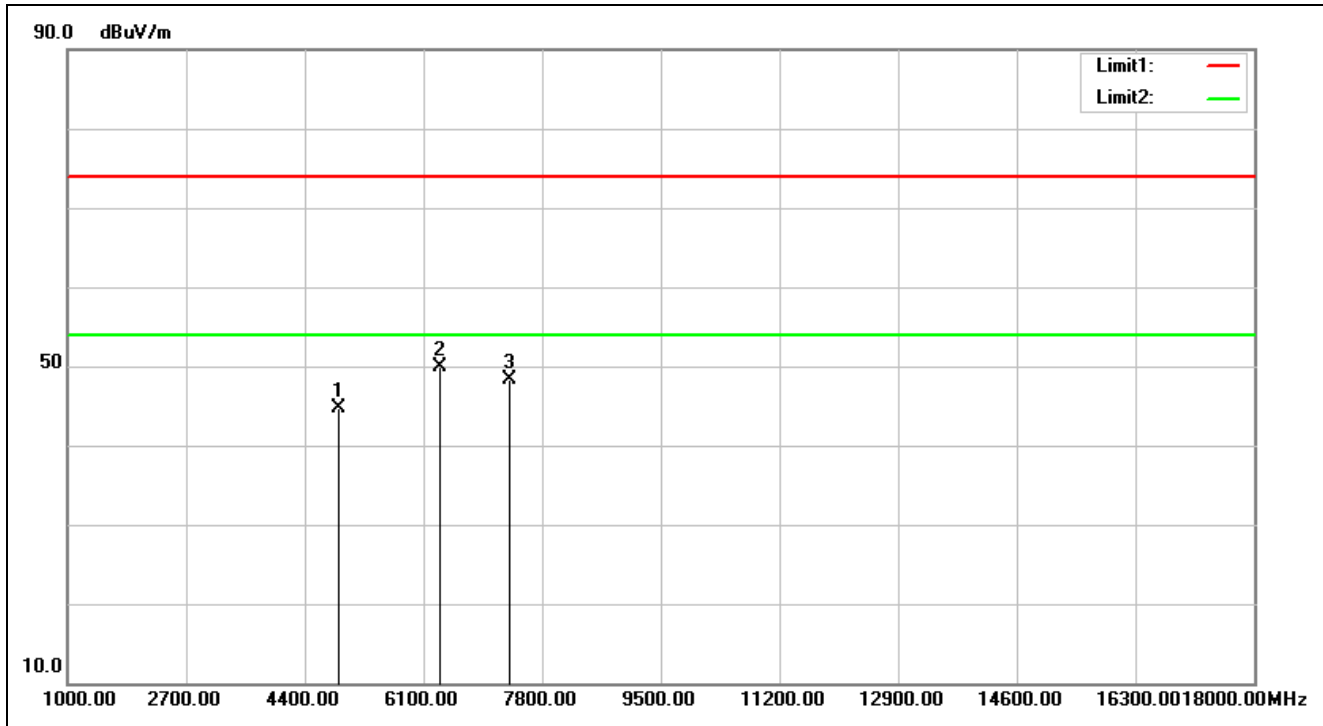
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:41:30
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.35	49.18	46.83	74.00	-27.17	peak			
2	6627.000	5.81	44.26	50.07	74.00	-23.93	peak	100	48	
3	7206.000	5.78	43.07	48.85	74.00	-25.15	peak			



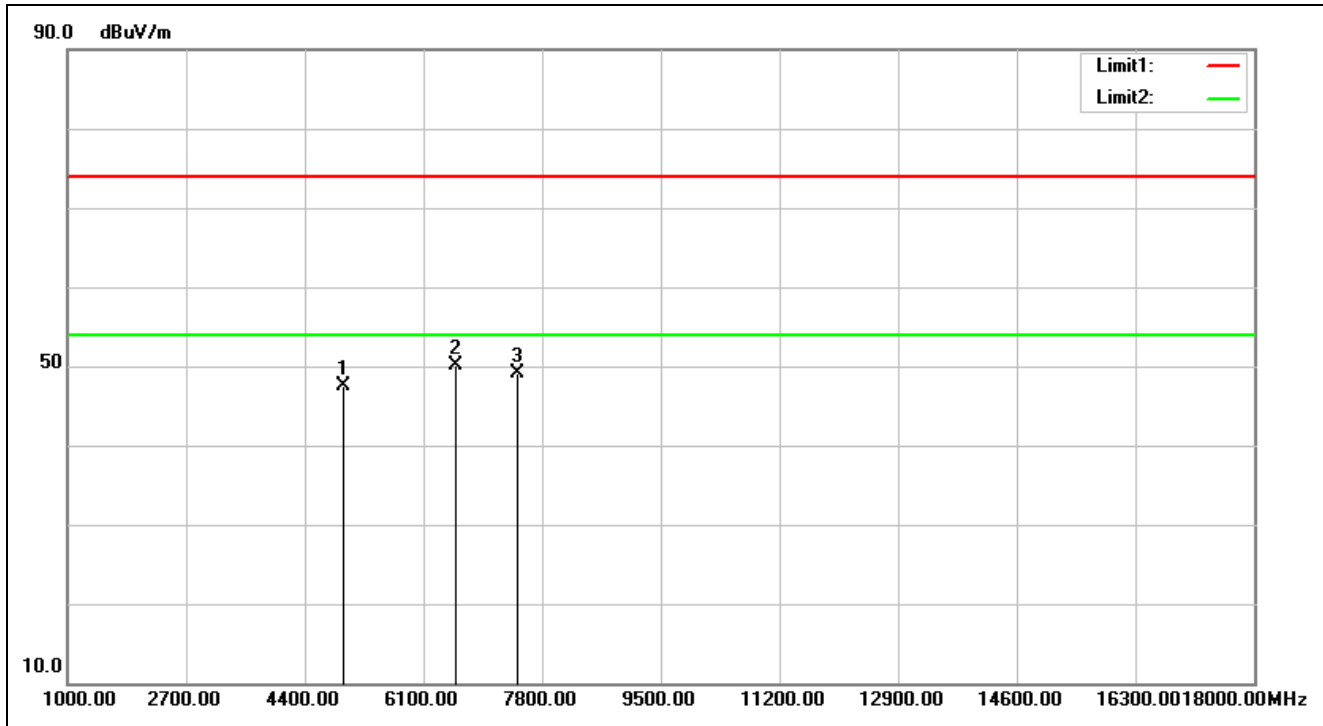
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:43:15
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.16	47.61	45.45	74.00	-28.55	peak			
2	6474.000	5.93	44.58	50.51	74.00	-23.49	peak	100	58	
3	7323.000	6.13	42.37	48.50	74.00	-25.50	peak			



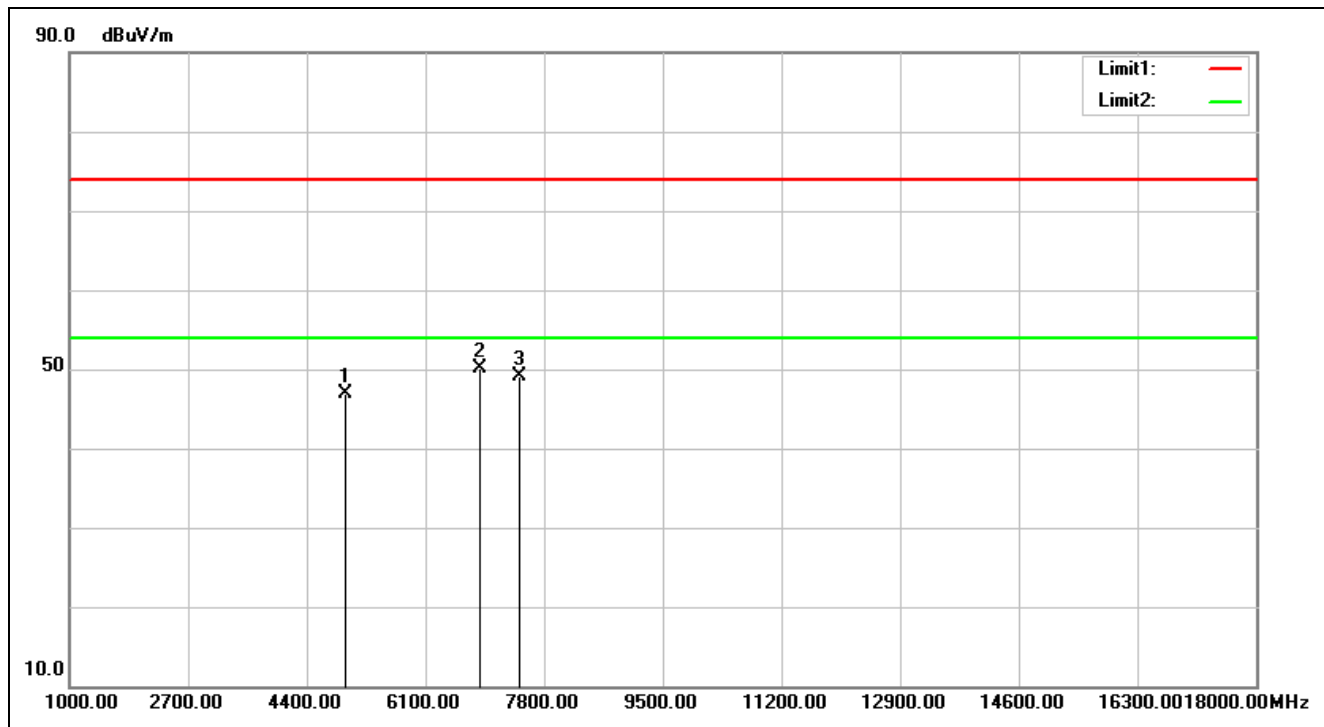
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:44:17
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.16	46.83	44.67	74.00	-29.33	peak			
2	6338.000	5.41	44.53	49.94	74.00	-24.06	peak	100	133	
3	7323.000	6.13	42.26	48.39	74.00	-25.61	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:46:34
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.97	49.48	47.51	74.00	-26.49	peak			
2	6559.000	5.94	44.18	50.12	74.00	-23.88	peak	100	277	
3	7440.000	6.47	42.64	49.11	74.00	-24.89	peak			

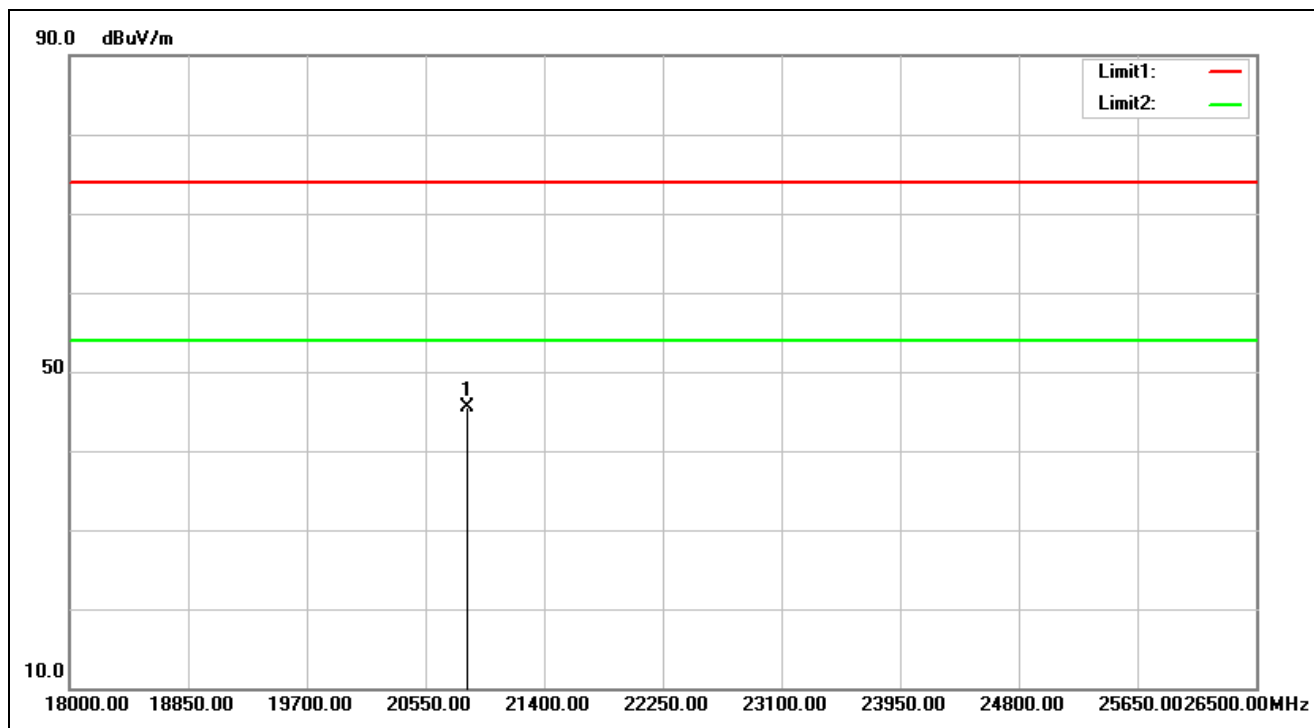


Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 21:47:36
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.97	48.95	46.98	74.00	-27.02	peak			
2	6882.000	5.37	44.78	50.15	74.00	-23.85	peak	100	34	
3	7440.000	6.47	42.72	49.19	74.00	-24.81	peak			

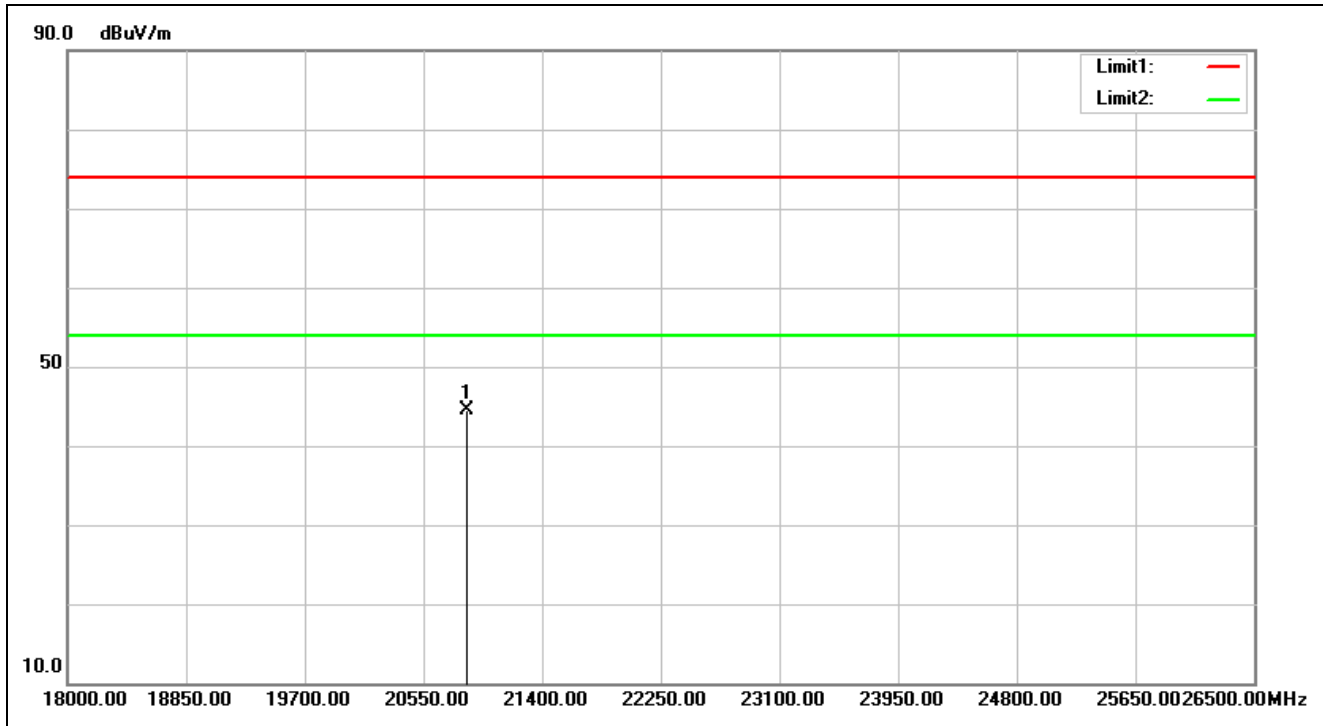
Spurious Emissions, RX Mode, 18-26G

Spurious Emissions, RX Mode, 1-18G



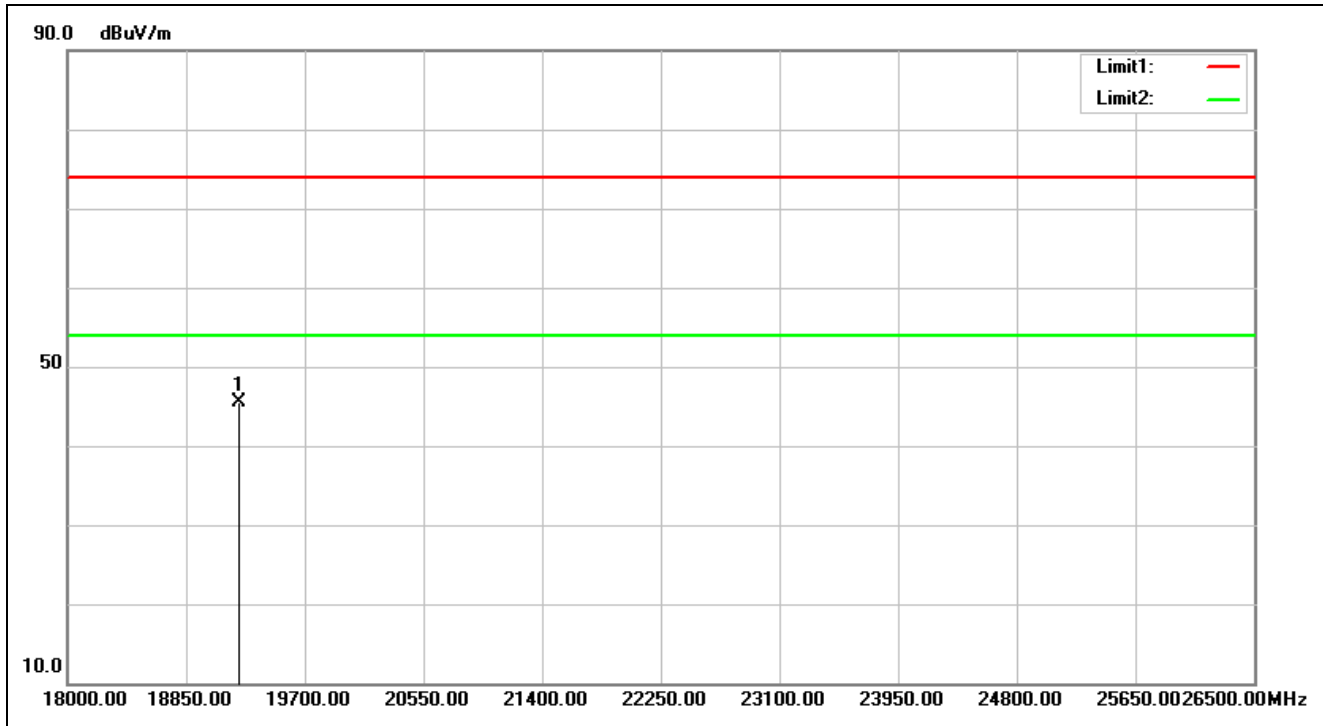
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:29:26
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20847.500	29.32	16.23	45.55	74.00	-28.45	peak		0	



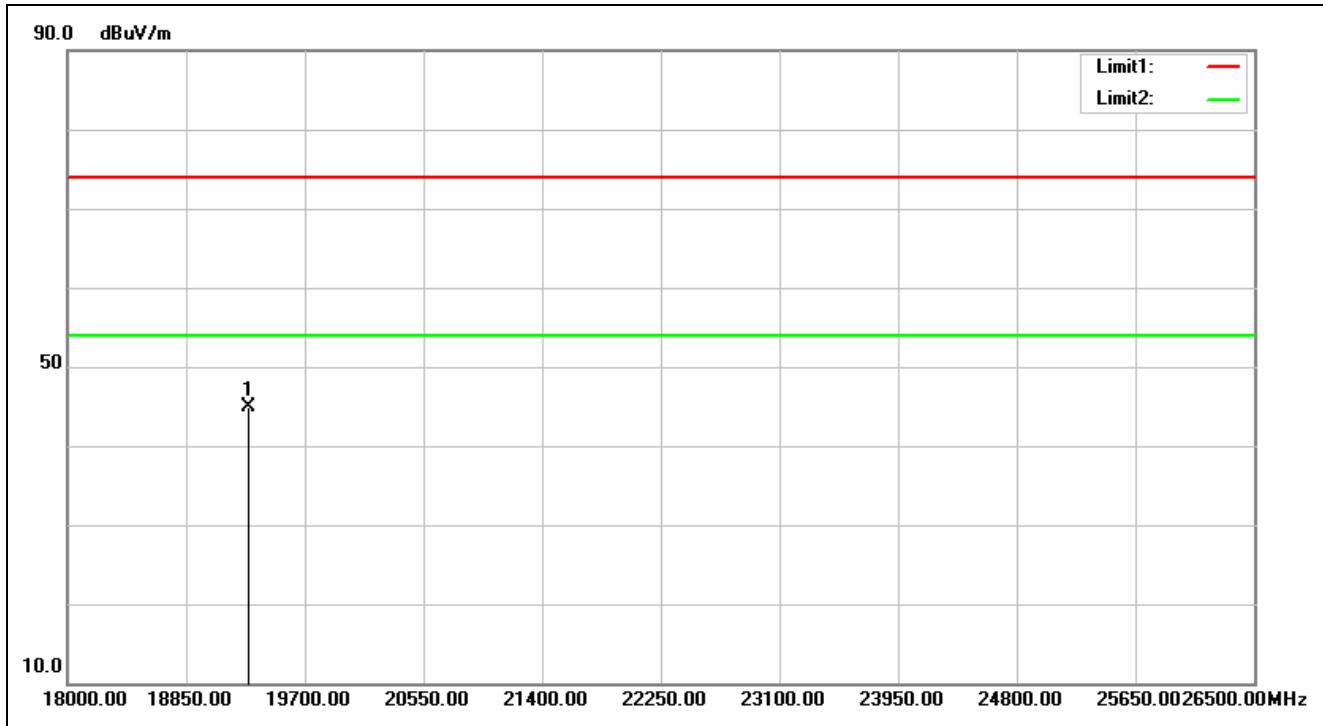
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:29:35
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	20864.500	29.33	15.20	44.53	74.00	-29.47	peak			



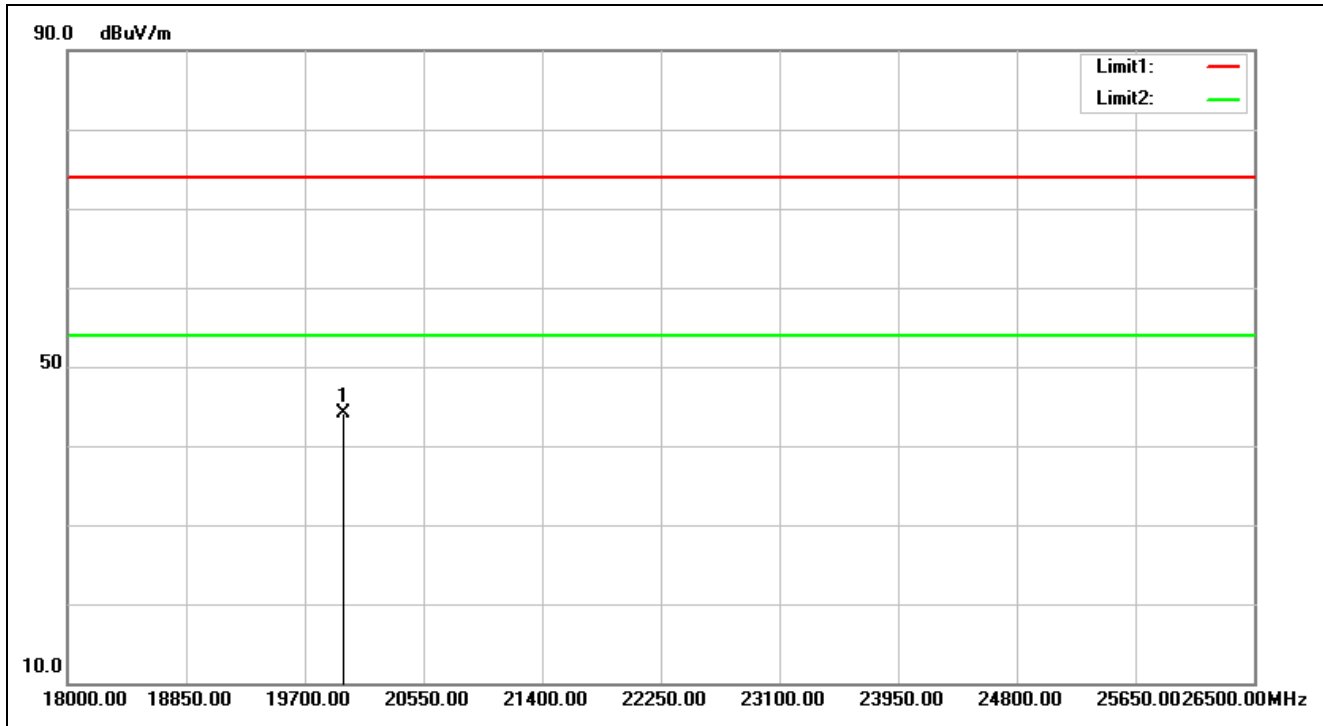
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:29:51
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19224.000	28.91	16.53	45.44	74.00	-28.56	peak			



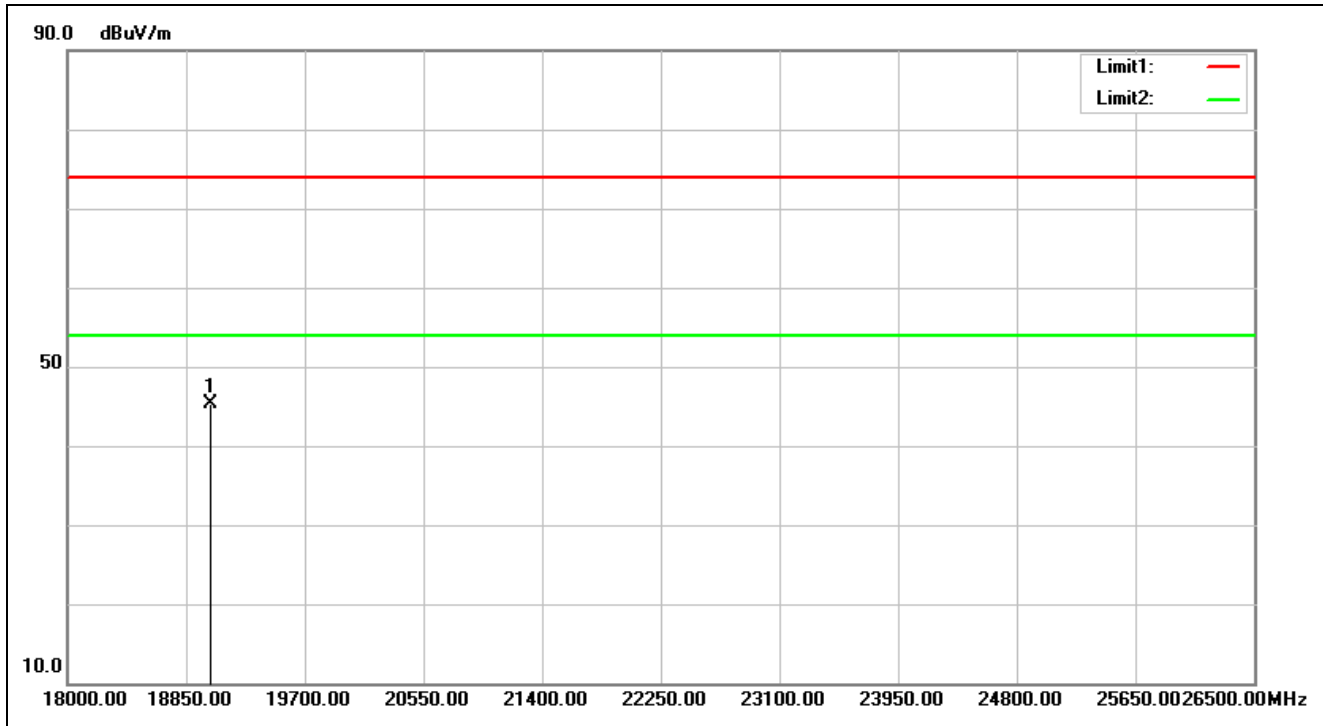
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:30:03
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19300.500	28.93	15.95	44.88	74.00	-29.12	peak			



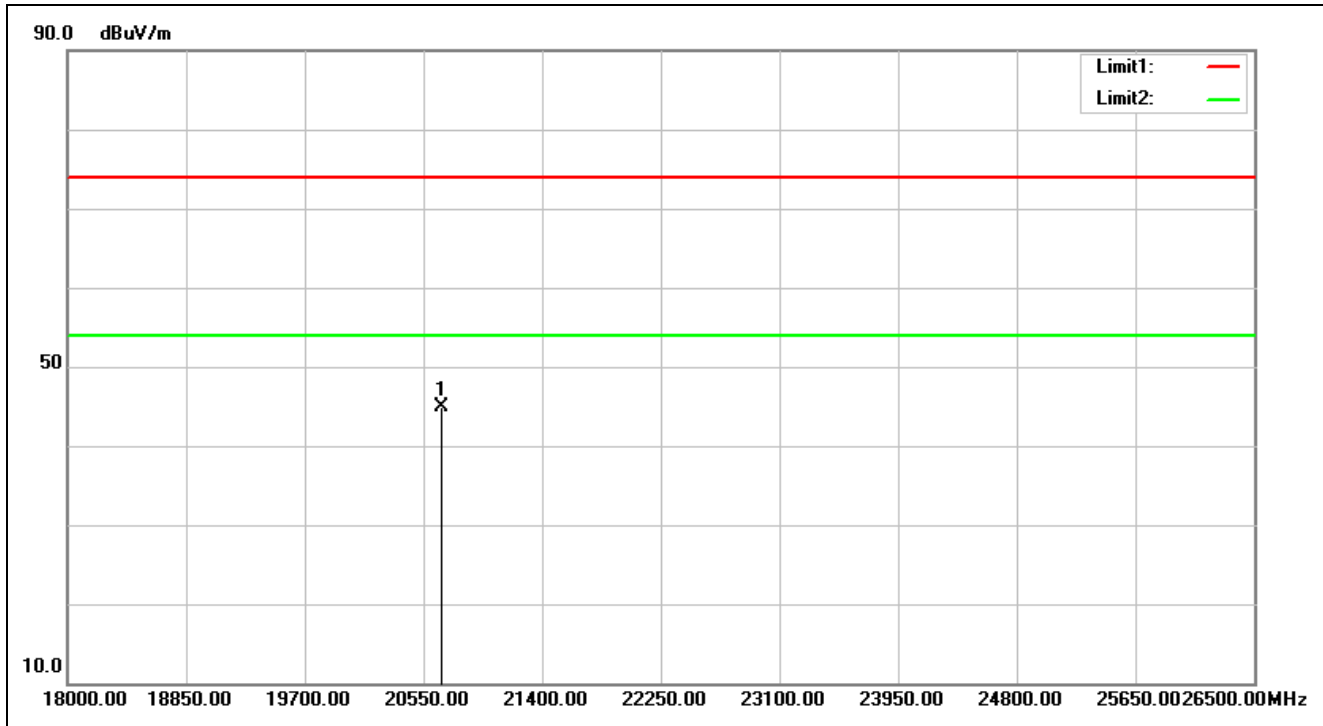
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:30:18
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19972.000	28.93	15.17	44.10	74.00	-29.90	peak			



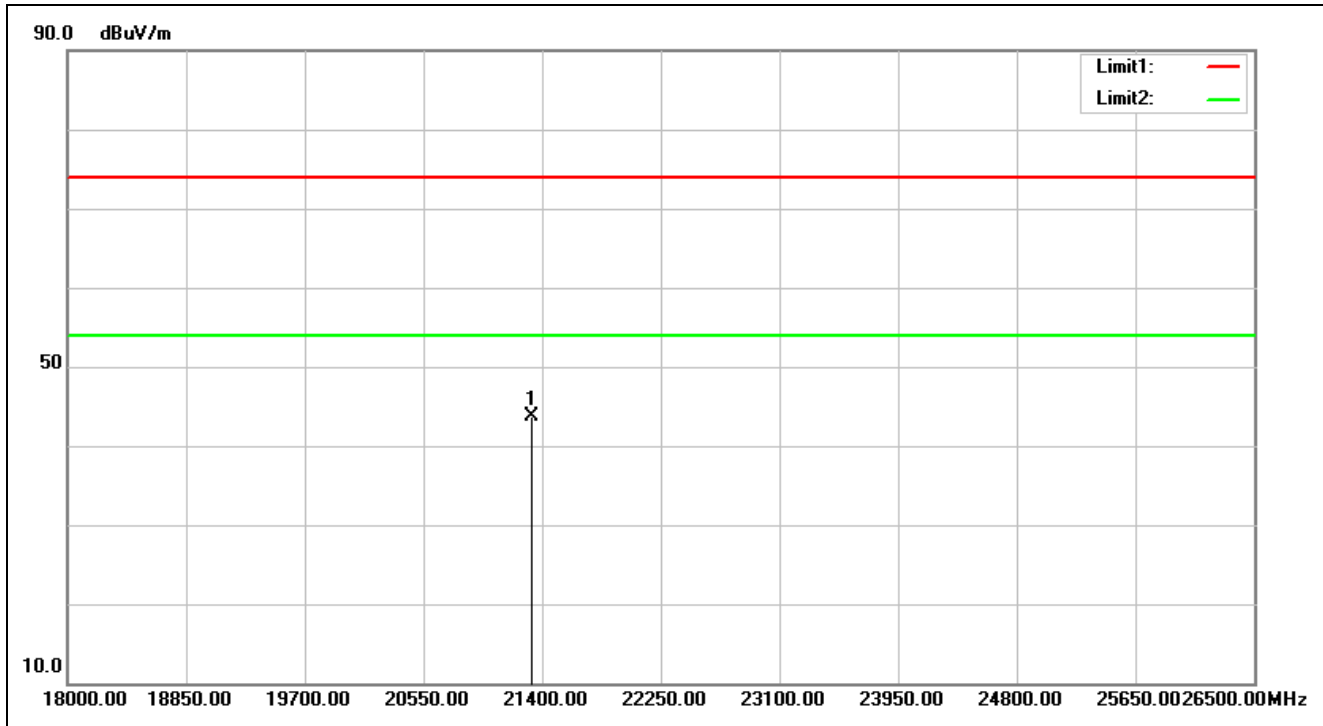
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:30:29
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	19020.000	28.89	16.32	45.21	74.00	-28.79	peak			



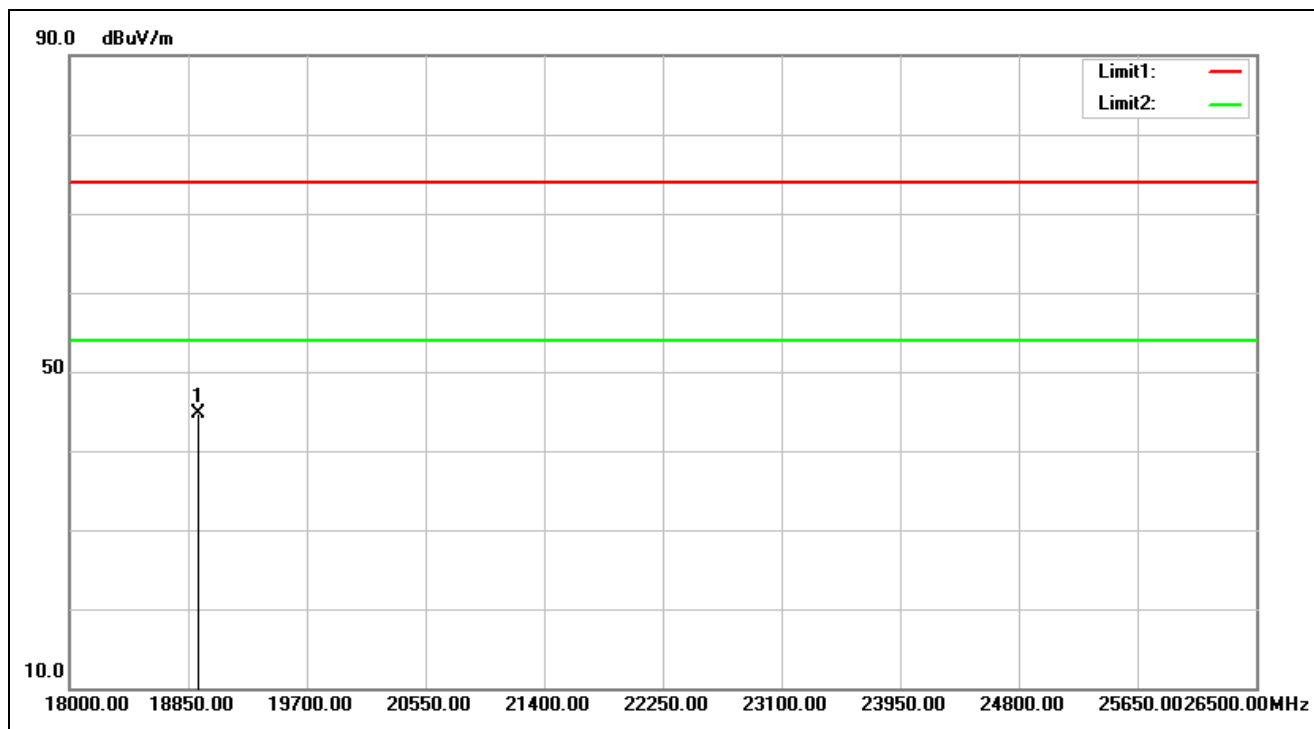
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:30:53
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20677.500	29.28	15.66	44.94	74.00	-29.06	peak			



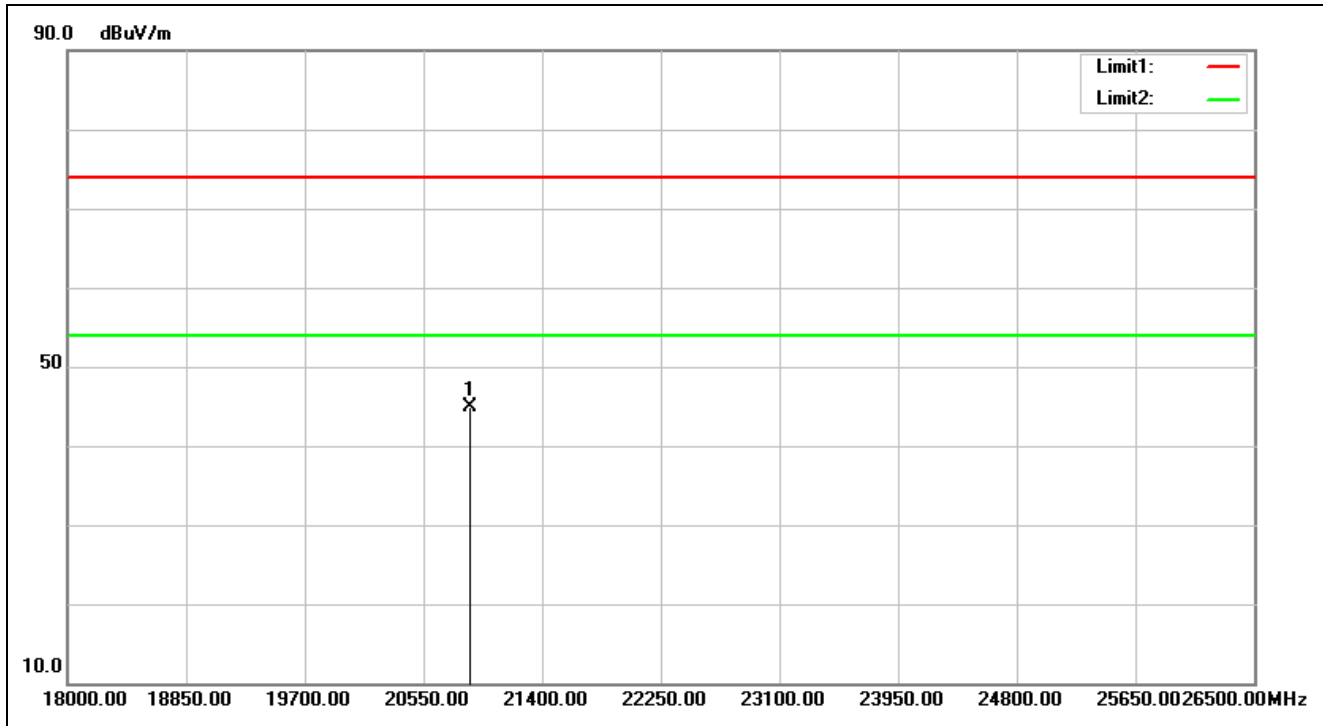
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:31:05
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2402-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21323.500	29.08	14.65	43.73	74.00	-30.27	peak			



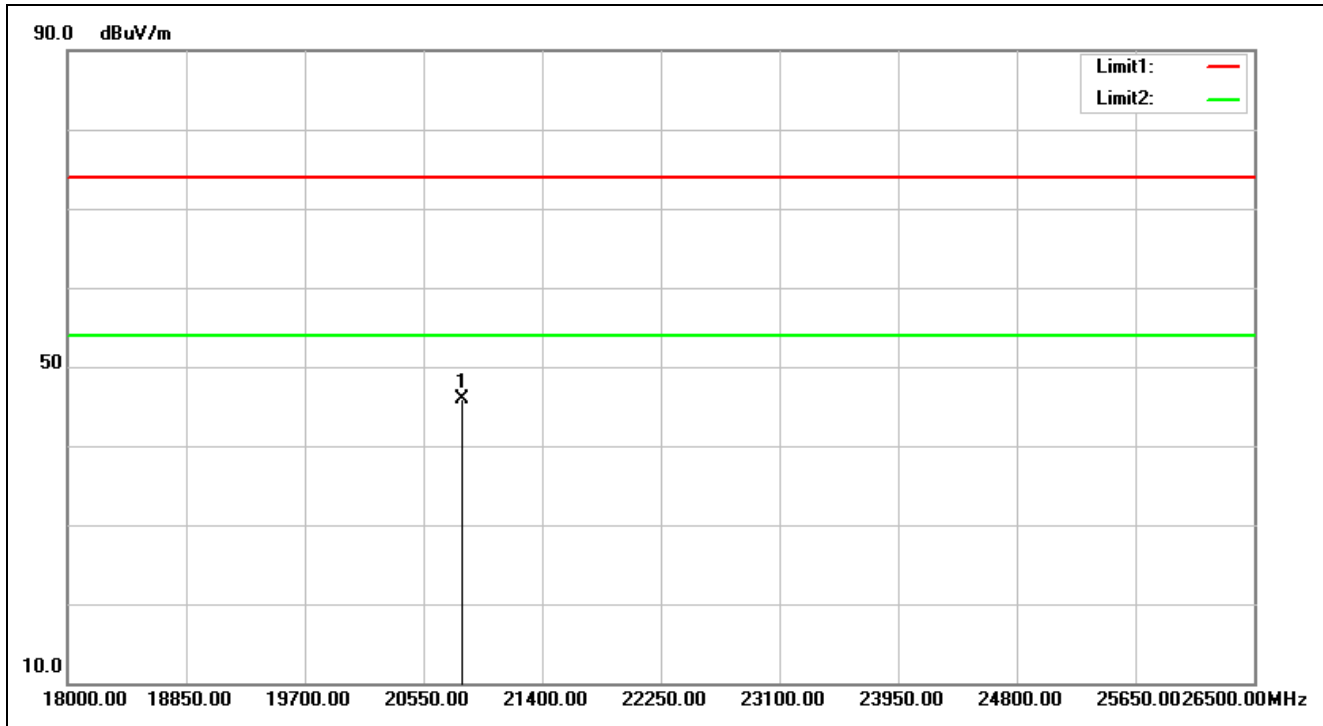
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:31:22
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	18926.500	28.80	16.00	44.80	74.00	-29.20	peak			



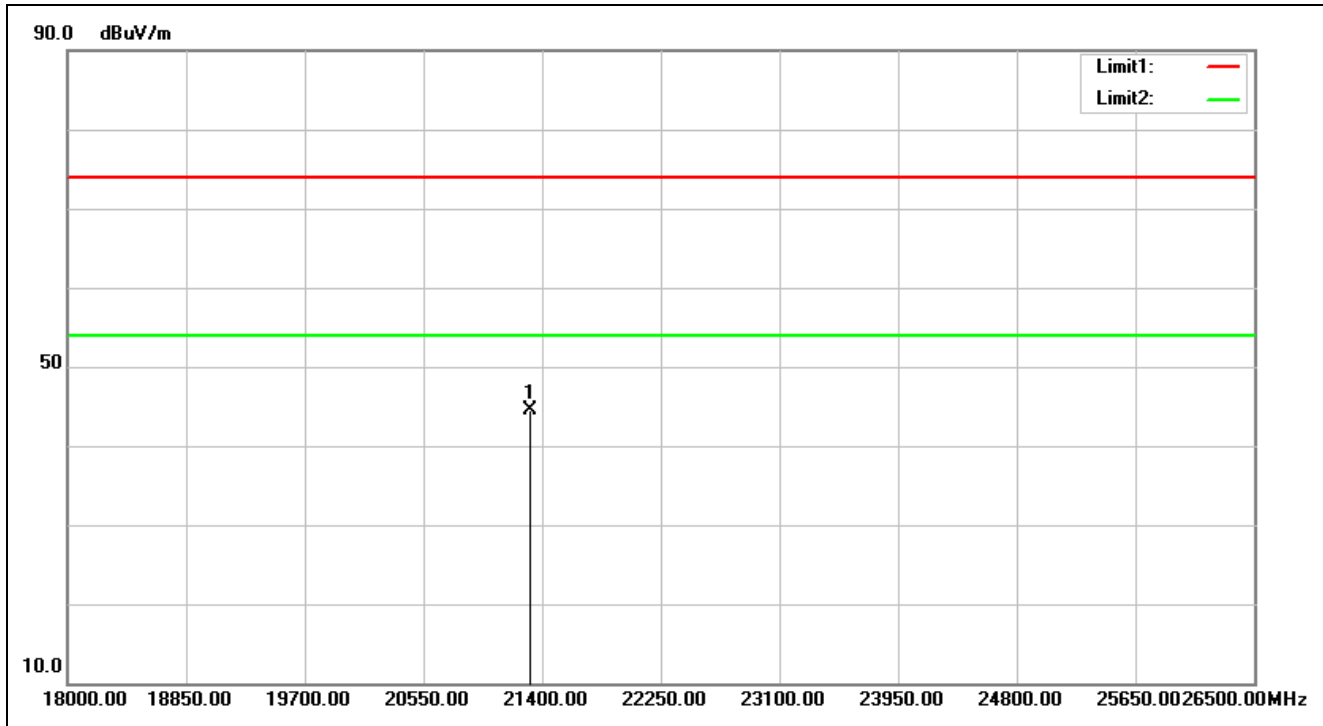
Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:31:31
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20881.500	29.33	15.55	44.88	74.00	-29.12	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:31:47
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20822.000	29.32	16.59	45.91	74.00	-28.09	peak			



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/3 23:31:57
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	23.1(°C)/52%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	Test Engineer:	George Yang
Test Mode:	3DH5-2480-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21315.000	29.09	15.34	44.43	74.00	-29.57	peak			

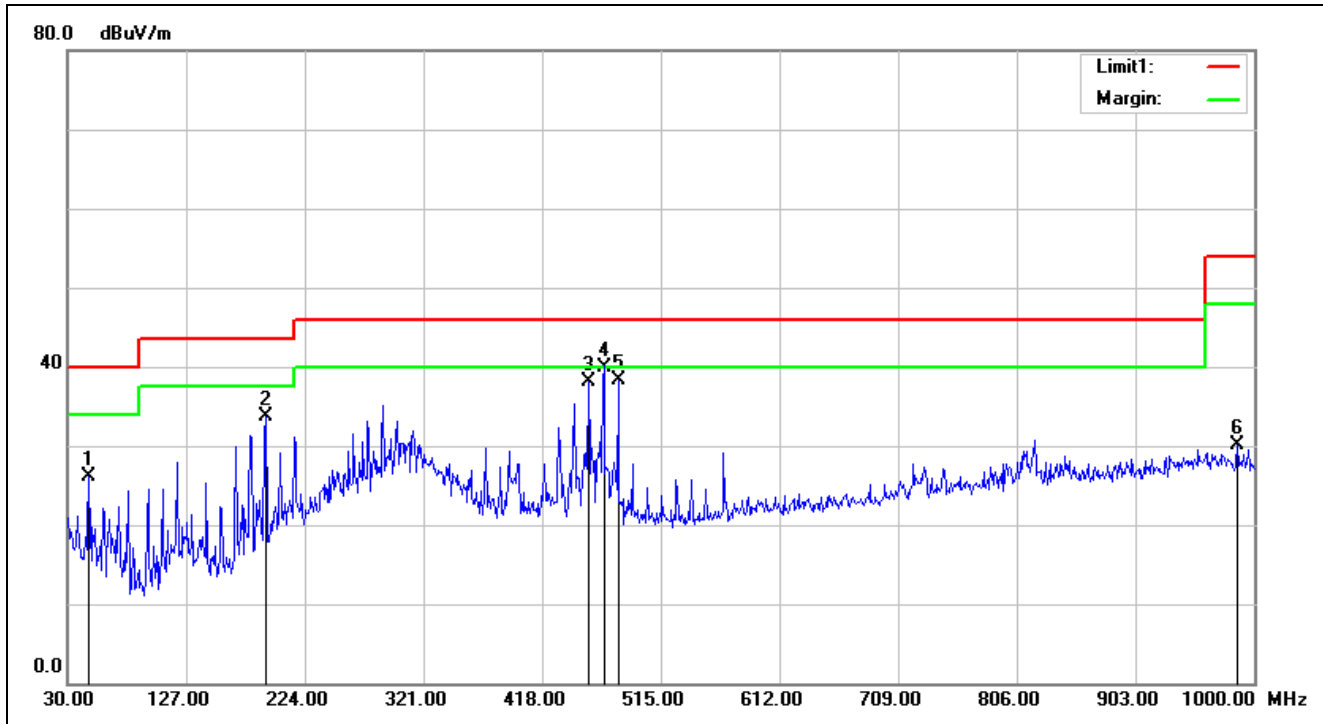
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

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



Service No.: 114039665-NCC

Test Distance: 3m

Test NCC Class B 3M Radiation

Ant. Polarization: Horizontal

Standard:

Test item: Radiation Emission

Test Time: 2015/9/4 19:33:20

Applicant: Microchip

Test Rating: DC 5V

Product: Bluetooth Module

Temp.(°C)/Hum.(%): 22.6(°C)/59%

Model No.: FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678

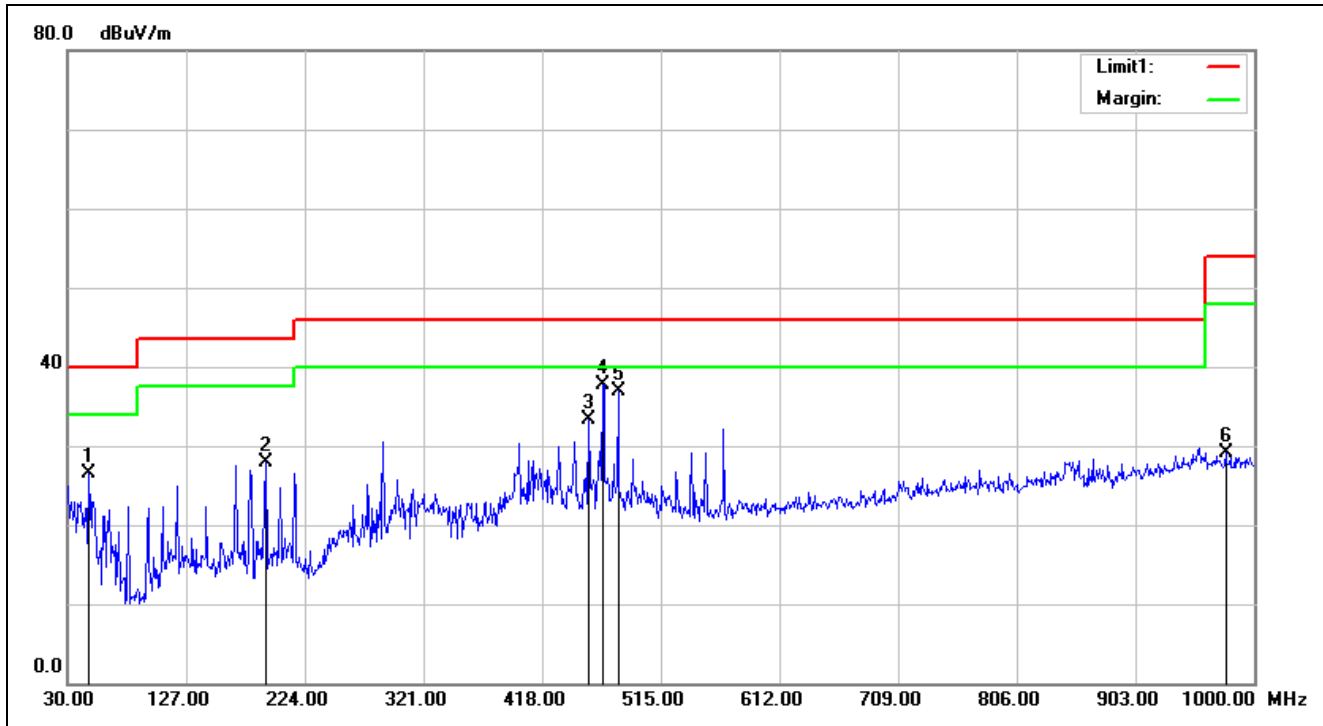
Test Engineer: George Yang

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	47.4600	-17.46	43.63	26.17	40.00	-13.83	QP	100	156	
2	191.9900	-16.87	50.56	33.69	43.50	-9.81	QP	100	116	
3	455.8300	-9.26	47.42	38.16	46.00	-7.84	QP	100	54	
4	468.4400	-9.08	48.90	39.82	46.00	-6.18	QP	100	78	
5	480.0800	-8.90	47.18	38.28	46.00	-7.72	QP	100	81	
6	986.4200	-1.22	31.32	30.10	54.00	-23.90	QP	100	33	

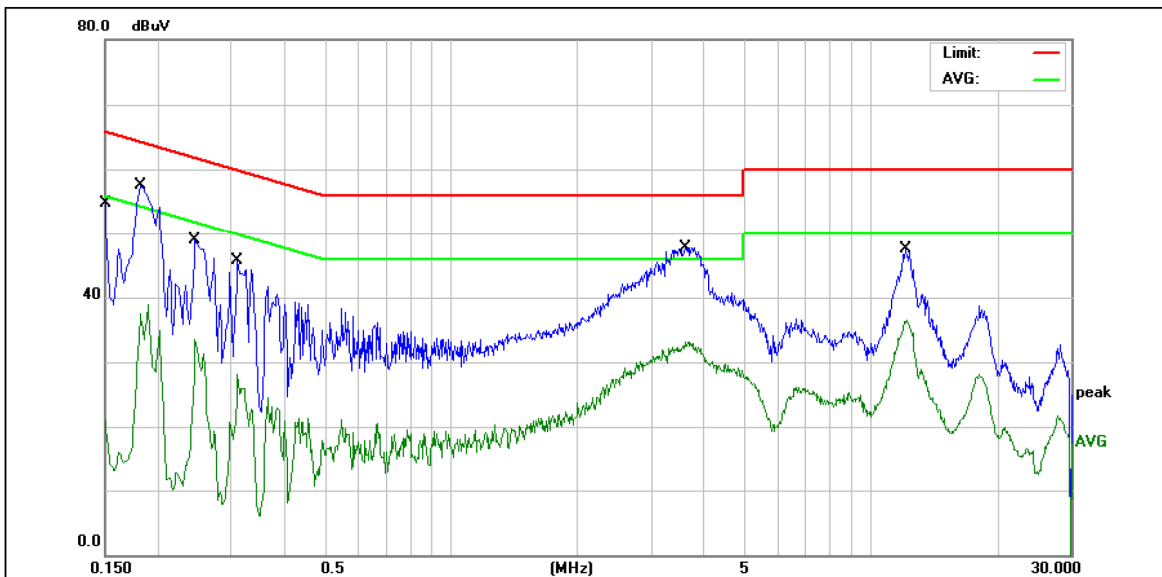
Spurious Emissions, Mains, 150kHz - 30MHz



Service No.:	114039665-NCC	Test Distance:	3m
Test	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Standard:			
Test item:	Radiation Emission	Test Time:	2015/9/4 19:34:23
Applicant:	Microchip	Test Rating:	DC 5V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	22.6(°C)/59%
Model No.:	FCC:BM78ABCDEFGH;NCC:BM78SPPS5MC2;RN4678	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	47.4600	-17.46	44.04	26.58	40.00	-13.42	QP	100	223	
2	191.9900	-16.87	44.71	27.84	43.50	-15.66	QP	100	187	
3	455.8300	-9.26	42.62	33.36	46.00	-12.64	QP	100	114	
4	467.4700	-9.09	46.87	37.78	46.00	-8.22	QP	100	126	
5	480.0800	-8.90	45.75	36.85	46.00	-9.15	QP	100	151	
6	976.7200	-1.21	30.33	29.12	54.00	-24.88	QP	100	192	

Mains Spurious Emissions



Service No.: 114039665(BM78)

Test Standard: FCC Class B Conduction(QP)

Test item: Conducted Emission

Phase: L1

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.2(°C) / 51 %

Product: Bluetooth Module

Power Rating: DC 5V

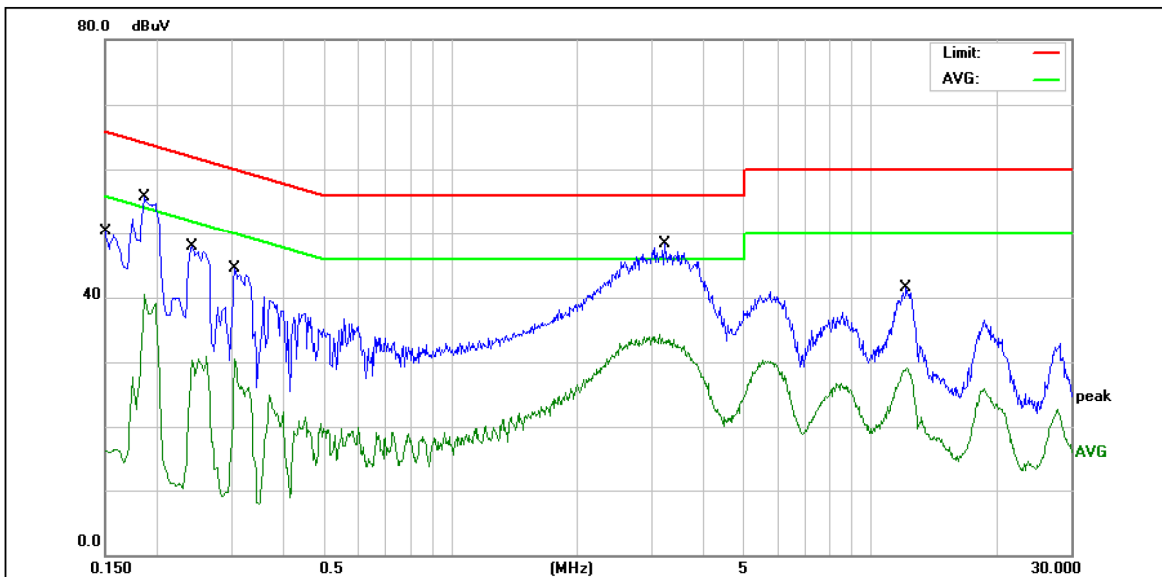
Model No.: BM78

Test Engineer: Kai Wang

Test Mode: (a)Normal Link

Remark:

No.	Frequency (MHz)	Factor ()	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	9.65	33.06	42.71	65.99	-23.28	QP	P	
2	0.1500	9.65	7.12	16.77	55.99	-39.22	AVG	P	
3	0.1819	9.63	45.02	54.65	64.39	-9.74	QP	P	
4	0.1819	9.63	25.30	34.93	54.39	-19.46	AVG	P	
5	0.2460	9.63	35.88	45.51	61.89	-16.38	QP	P	
6	0.2460	9.63	18.76	28.39	51.89	-23.50	AVG	P	
7	0.3100	9.63	31.73	41.36	59.97	-18.61	QP	P	
8	0.3100	9.63	15.21	24.84	49.97	-25.13	AVG	P	
9	3.6140	9.67	32.53	42.20	56.00	-13.80	QP	P	
10	3.6140	9.67	21.17	30.84	46.00	-15.16	AVG	P	
11	12.1180	9.78	30.52	40.30	60.00	-19.70	QP	P	
12	12.1180	9.78	24.54	34.32	50.00	-15.68	AVG	P	



Service No.: 114039665(BM78)

Test Standard: FCC Class B Conduction(QP)

Test item: Conducted Emission

Phase: N

Applicant: Microchip

Temp.(°C)/Hum.(%): 22.2(°C) / 51 %

Product: Bluetooth Module

Power Rating: DC 5V

Model No.: BM78

Test Engineer: Kai Wang

Test Mode: (a)Normal Link

Remark:

No.	Frequency (MHz)	Factor ()	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	9.66	31.59	41.25	65.99	-24.74	QP	P	
2	0.1500	9.66	5.92	15.58	55.99	-40.41	AVG	P	
3	0.1860	9.65	43.54	53.19	64.21	-11.02	QP	P	
4	0.1860	9.65	27.40	37.05	54.21	-17.16	AVG	P	
5	0.2420	9.65	34.94	44.59	62.02	-17.43	QP	P	
6	0.2420	9.65	18.19	27.84	52.02	-24.18	AVG	P	
7	0.3060	9.64	30.70	40.34	60.08	-19.74	QP	P	
8	0.3060	9.64	15.55	25.19	50.08	-24.89	AVG	P	
9	3.2340	9.69	31.10	40.79	56.00	-15.21	QP	P	
10	3.2340	9.69	22.10	31.79	46.00	-14.21	AVG	P	
11	12.1300	9.82	24.19	34.01	60.00	-25.99	QP	P	
12	12.1300	9.82	15.53	25.35	50.00	-24.65	AVG	P	