

Test Report No.10055769 / 10055771 001

Appendix D: Radiated and Mains Spurious Emission Data

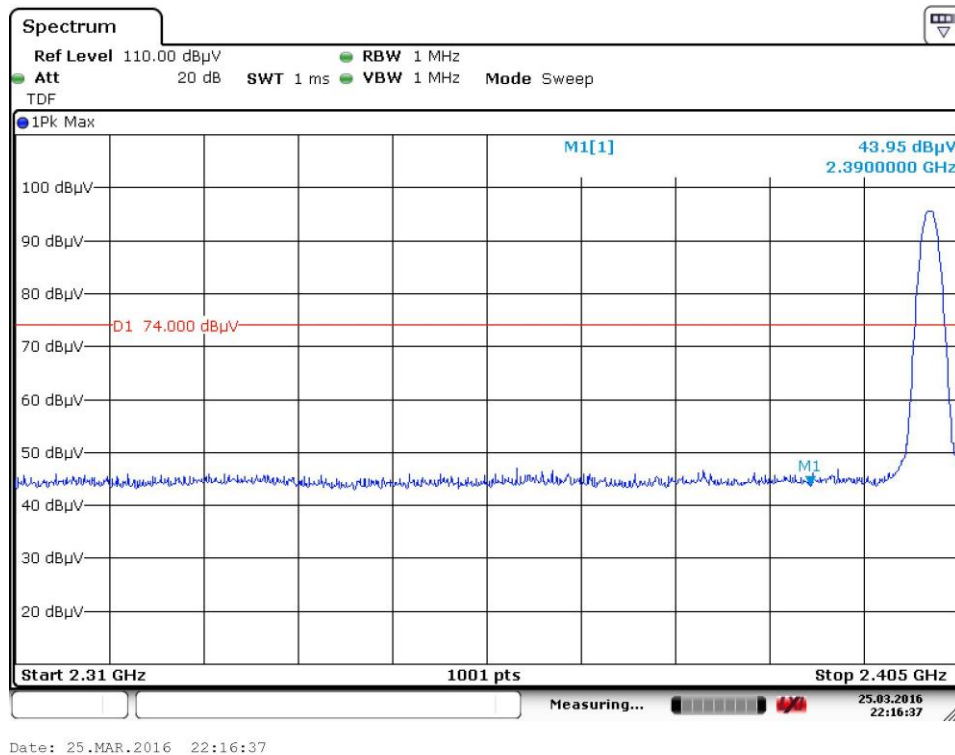
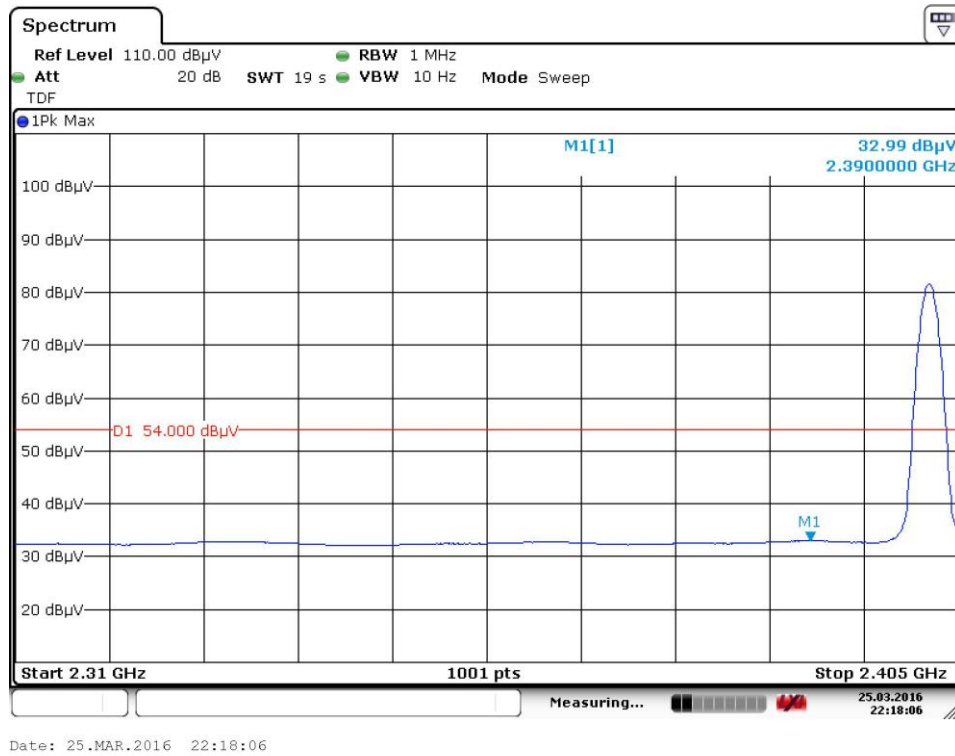
(File: 10055769 / 10055771AppendixD)

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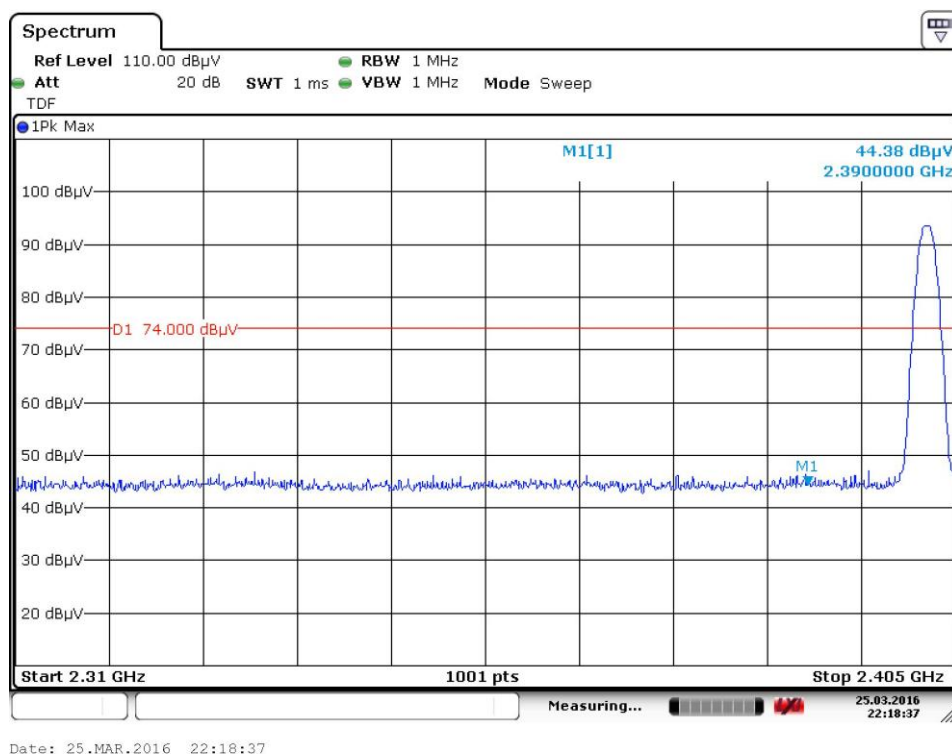
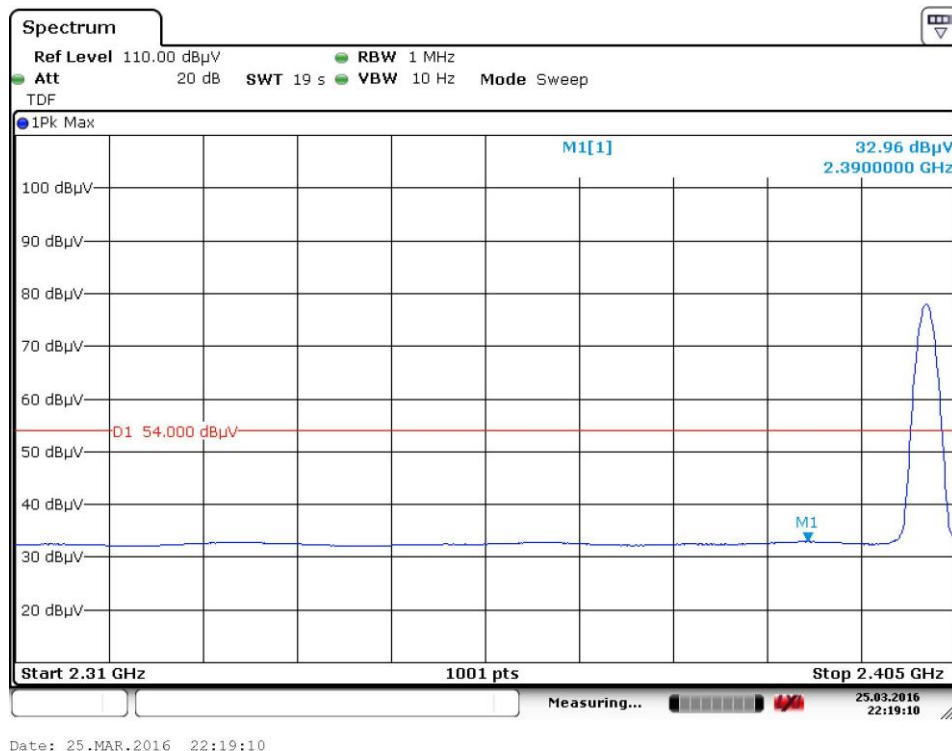
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Radiated Bandedge (GFSK)

Low Channel (Hor)



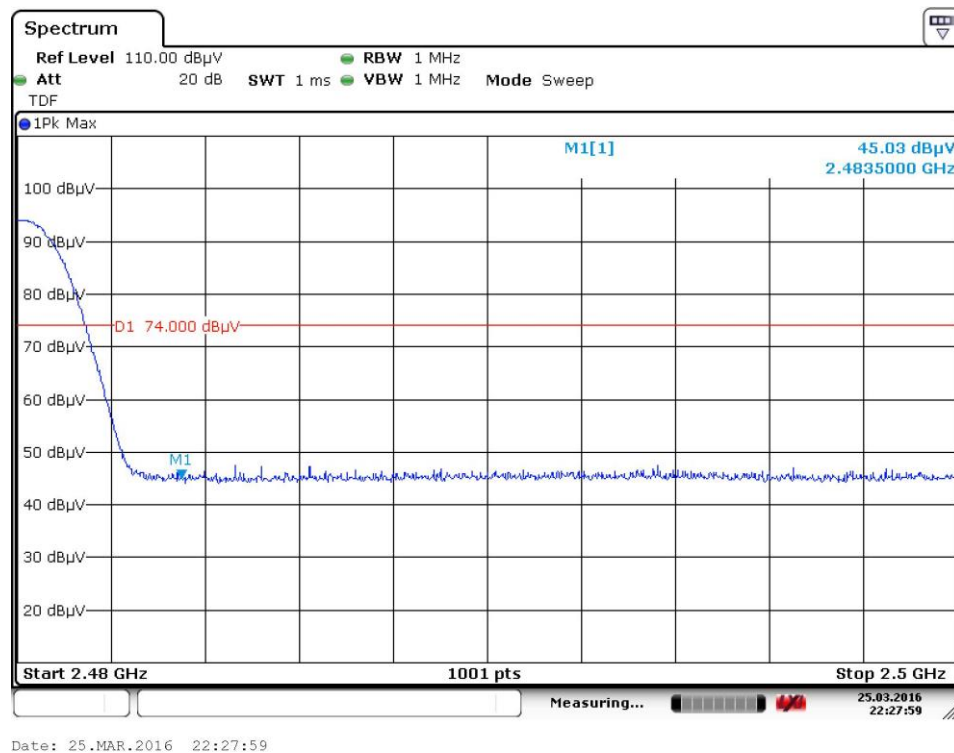
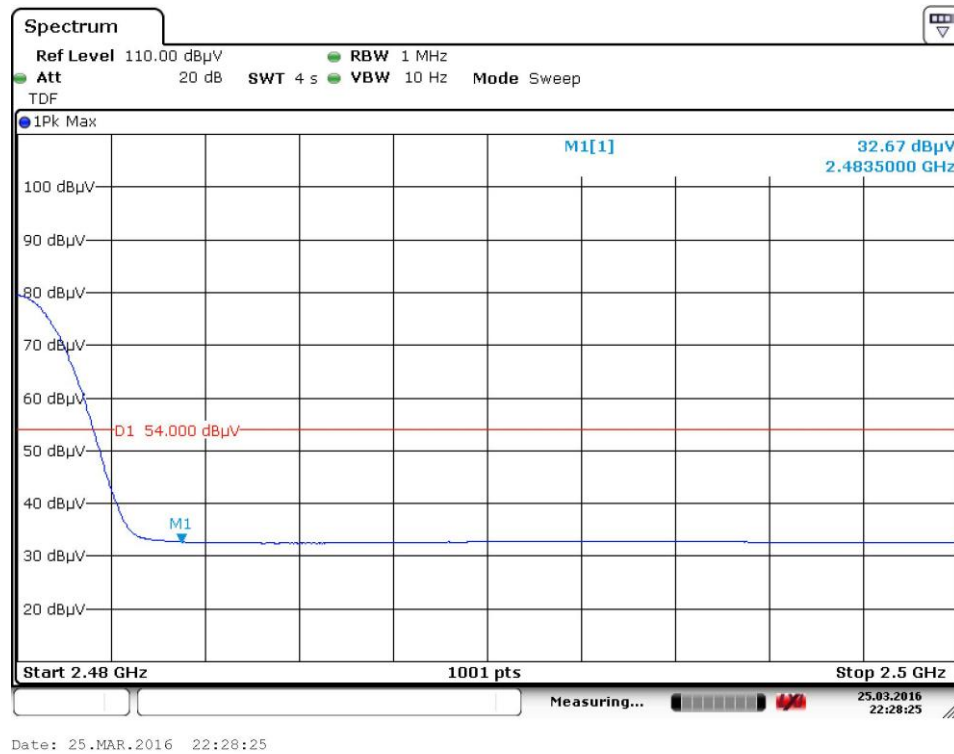
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

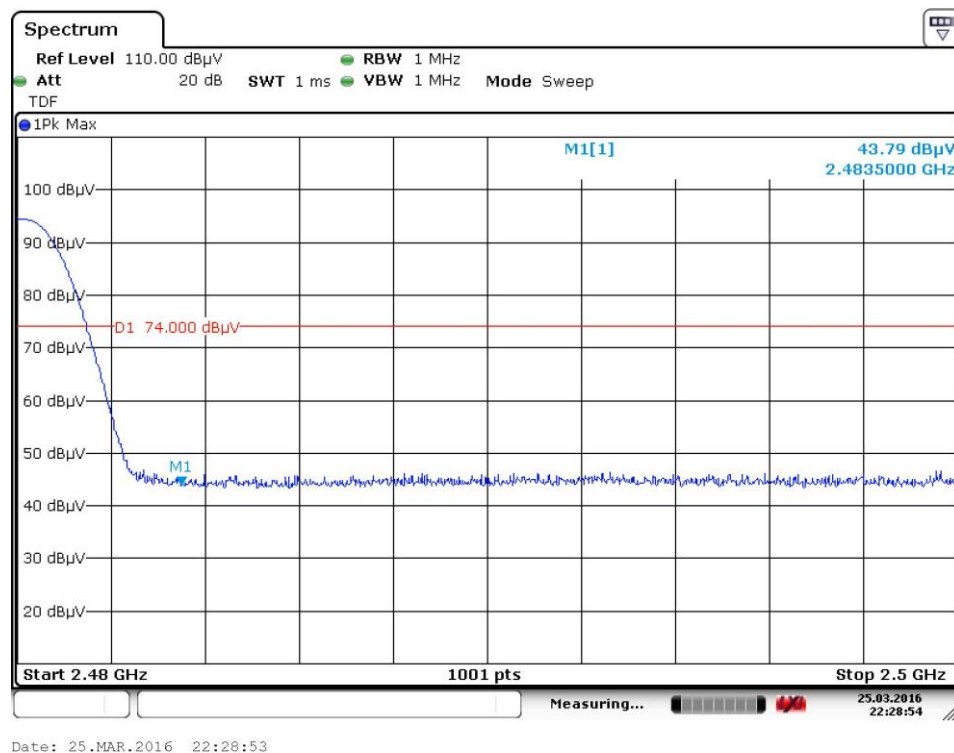
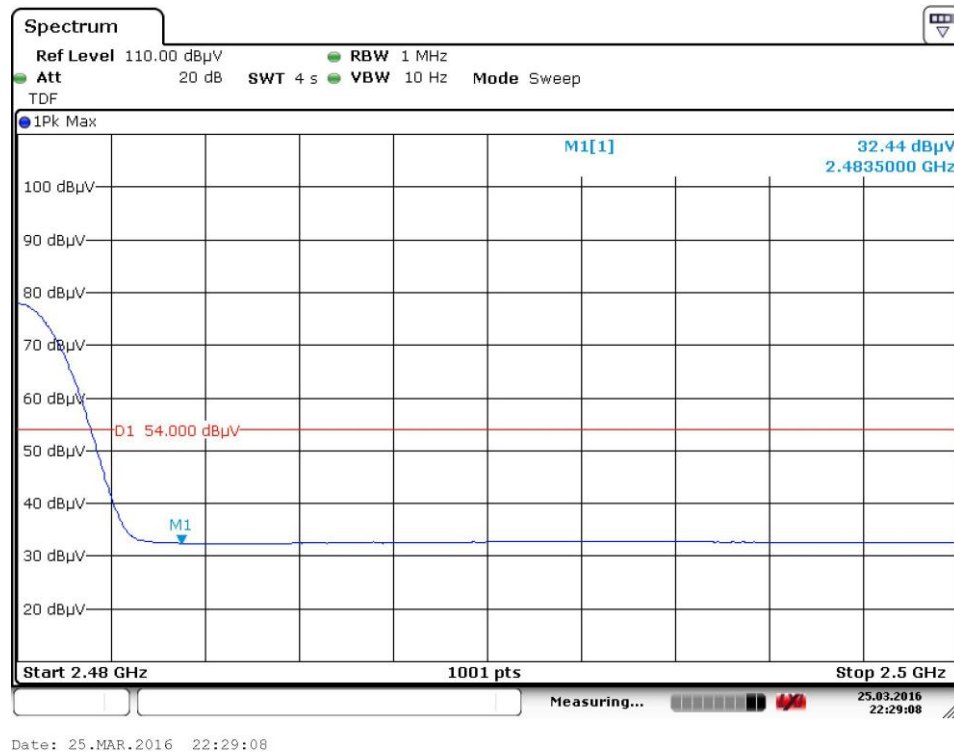
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

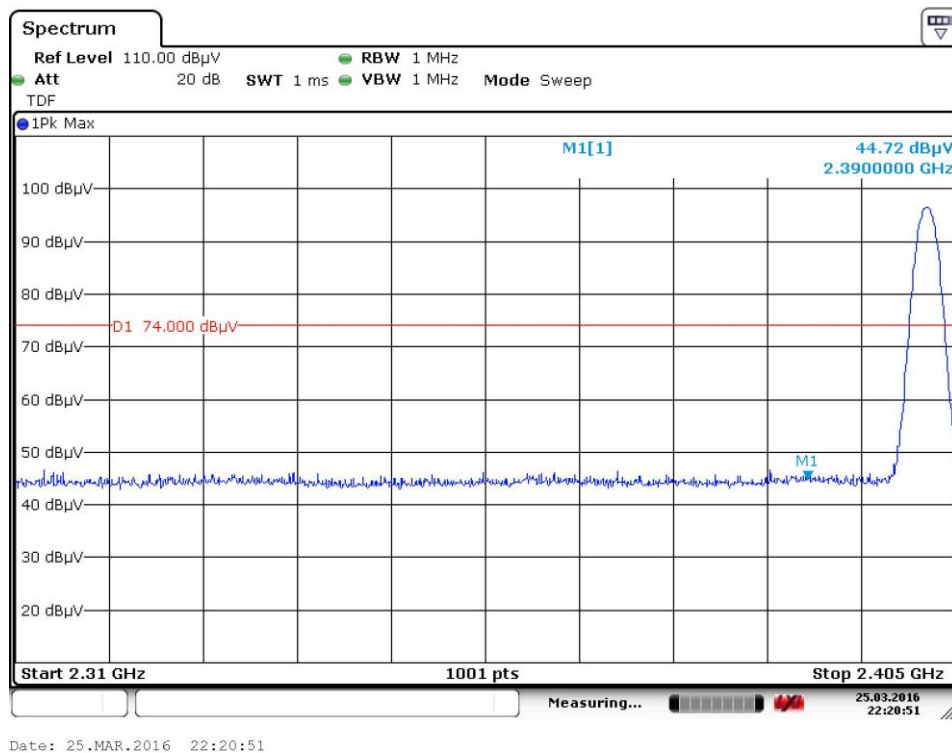
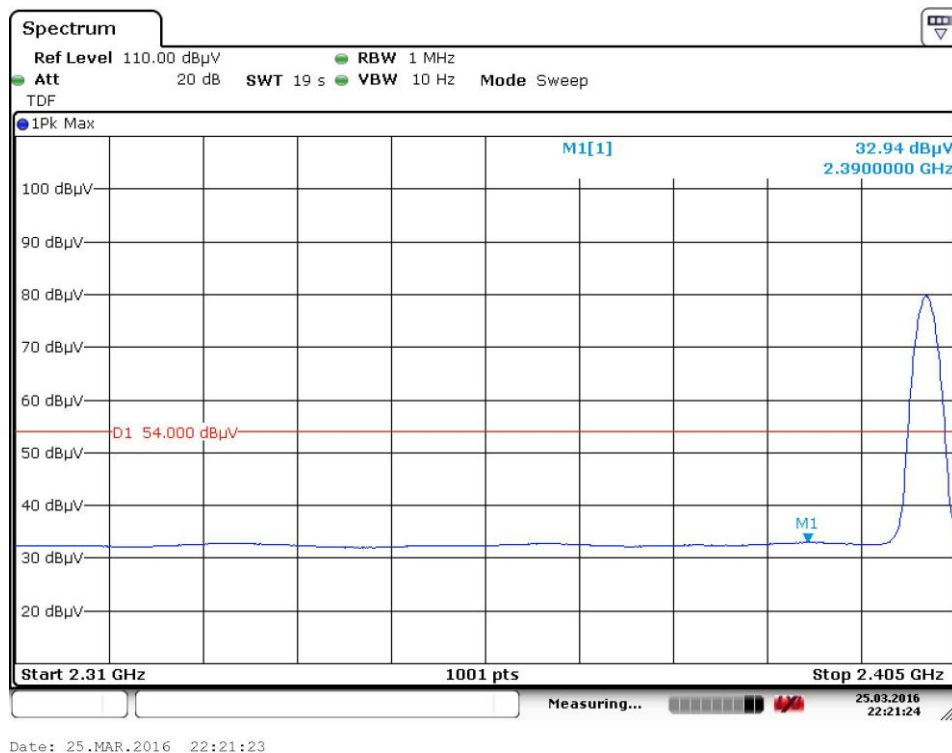
High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

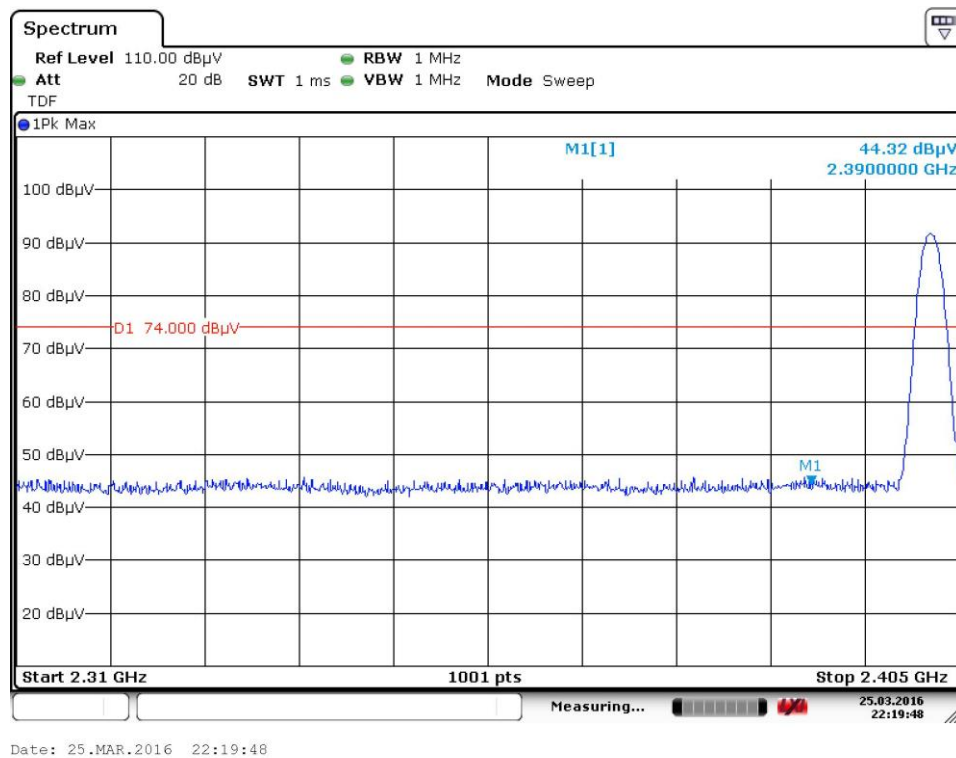
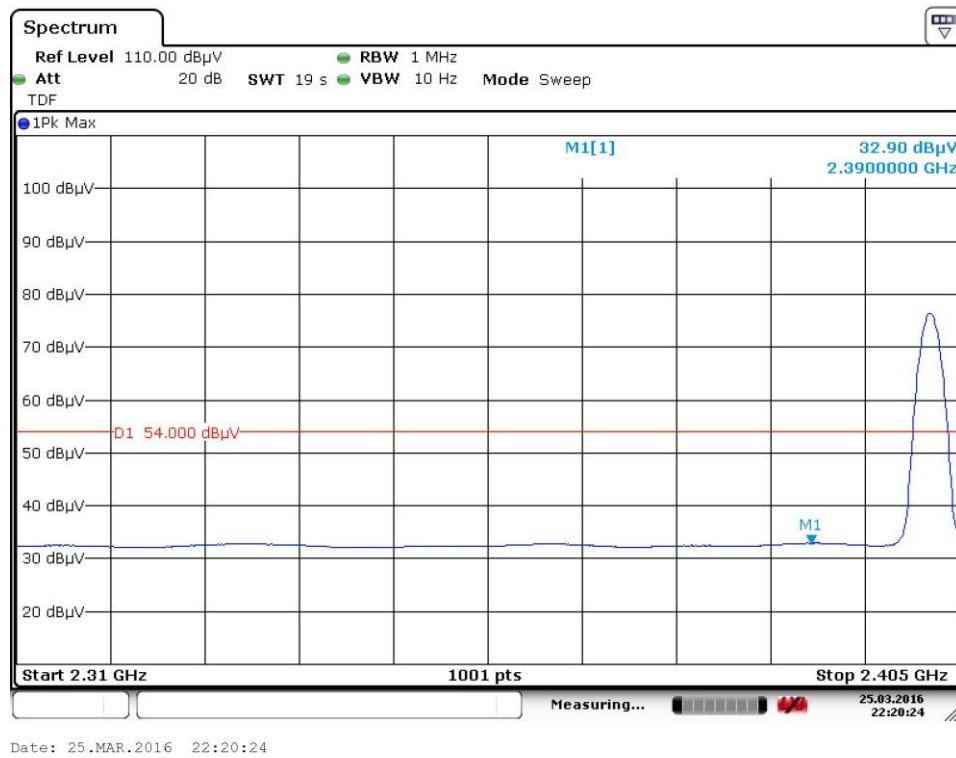
Radiated Bandedge (8DPSK)

Low Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

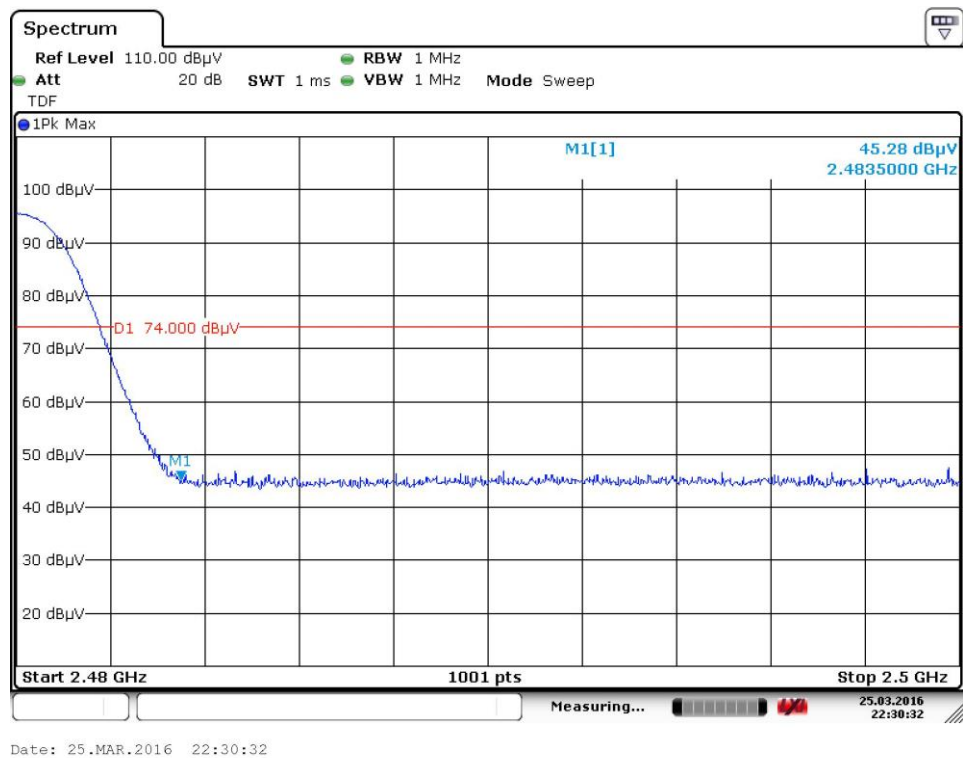
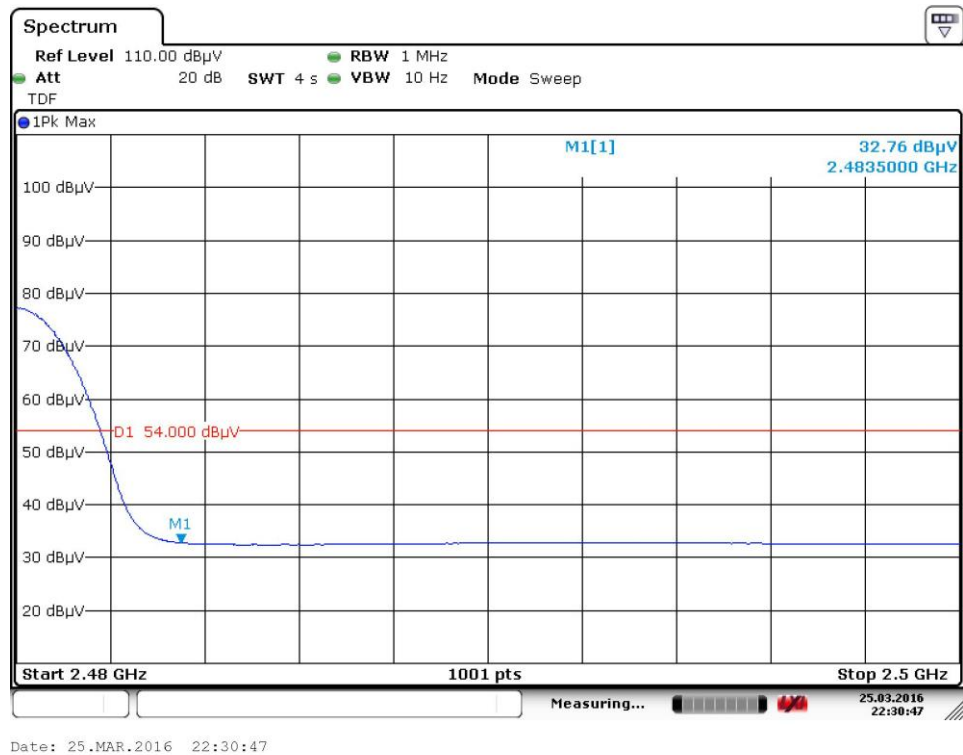
Low Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

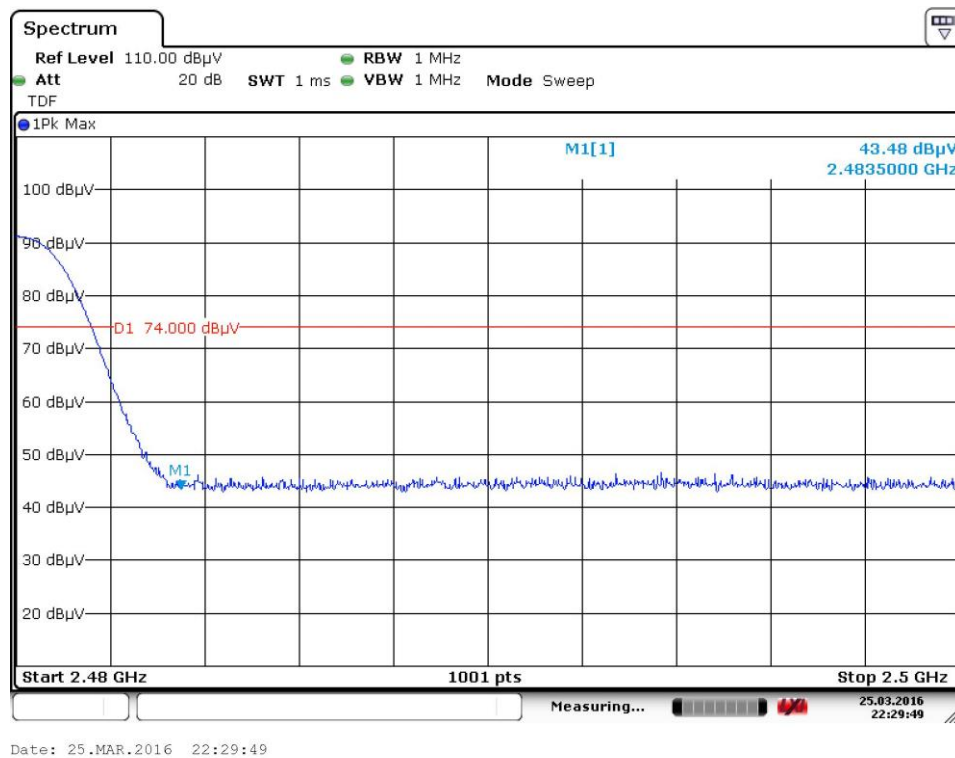
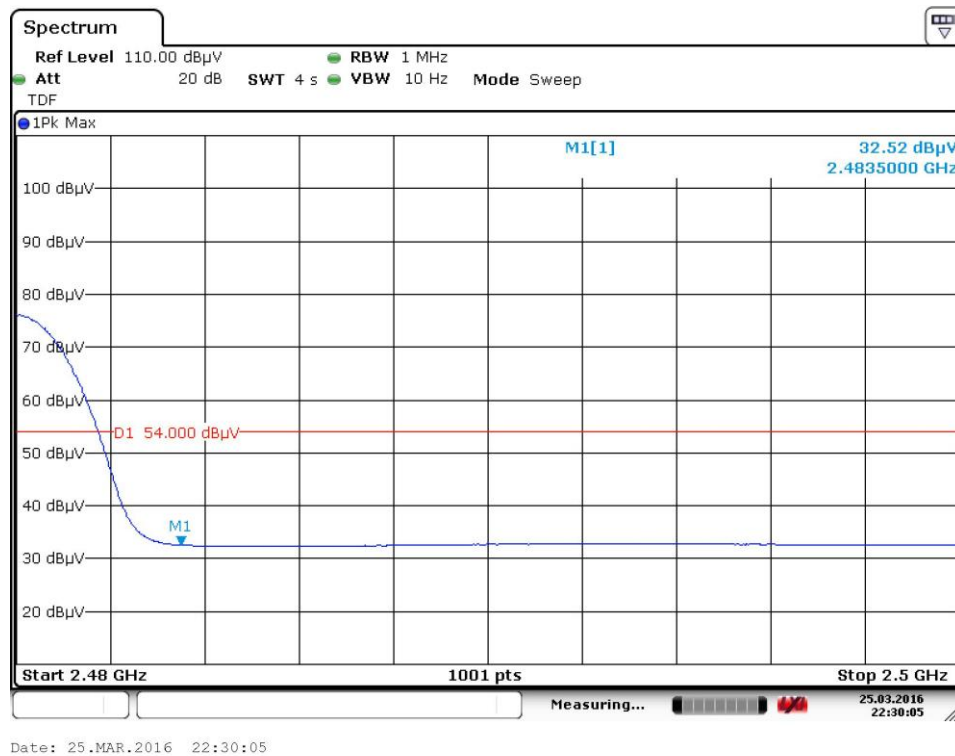
Radiated Bandedge (8DPSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

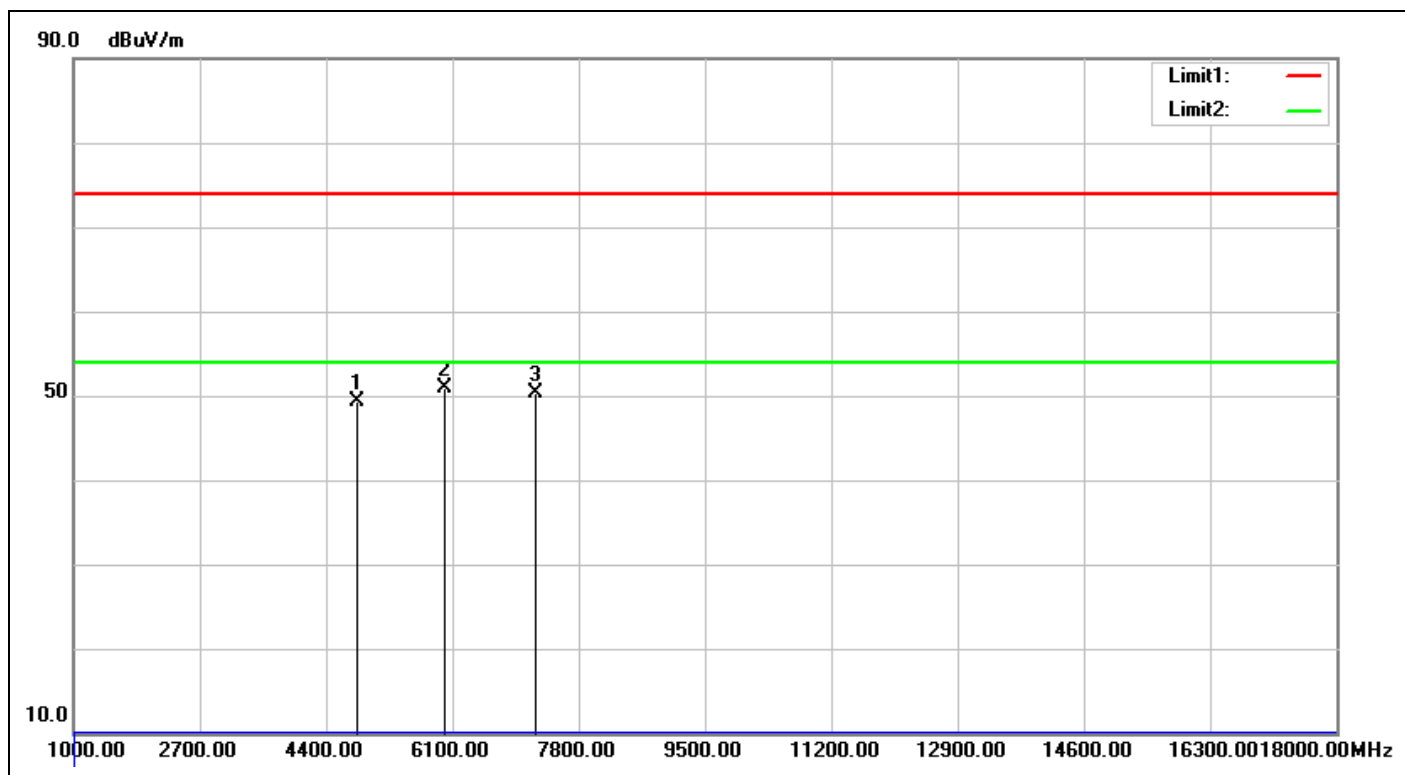
Spurious Emissions, TX Mode, 1-18G



TUV Taiwan

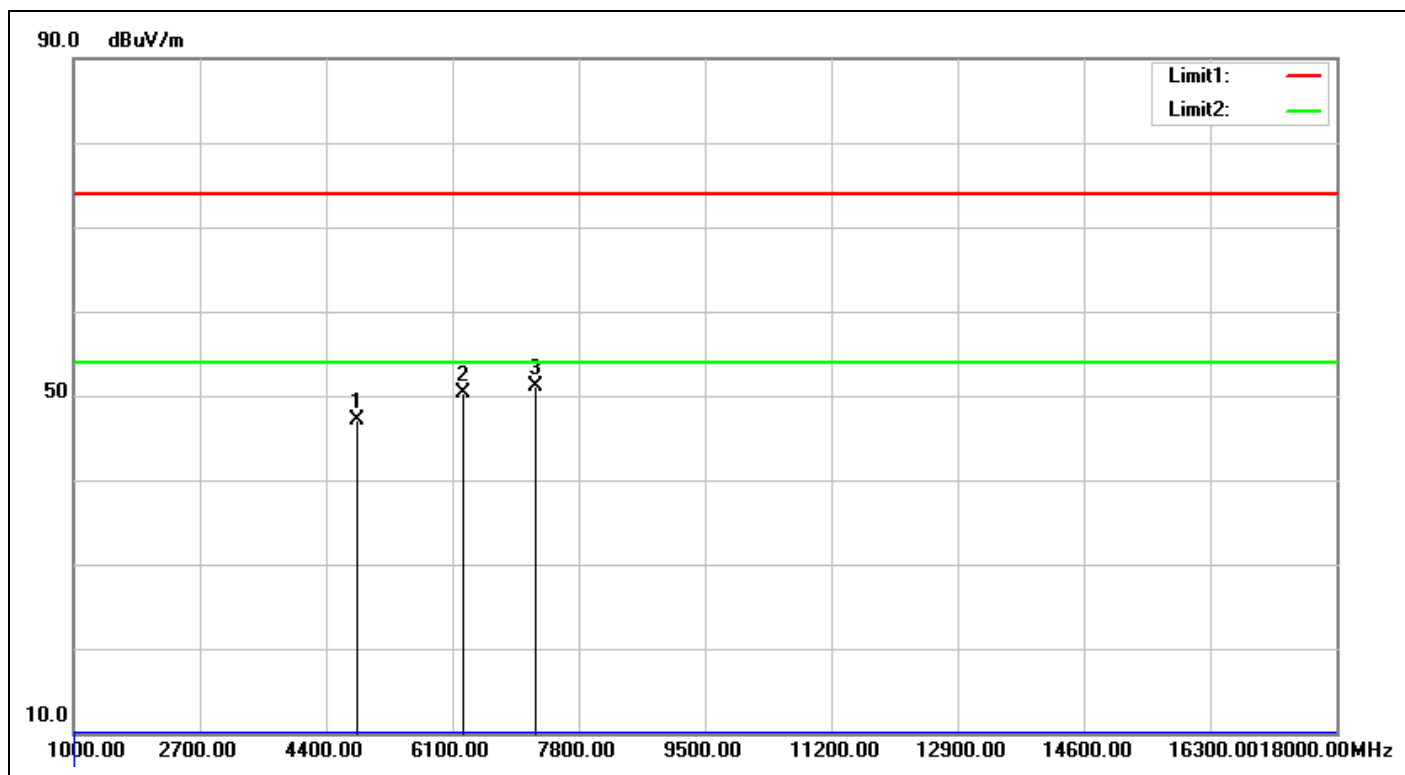
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



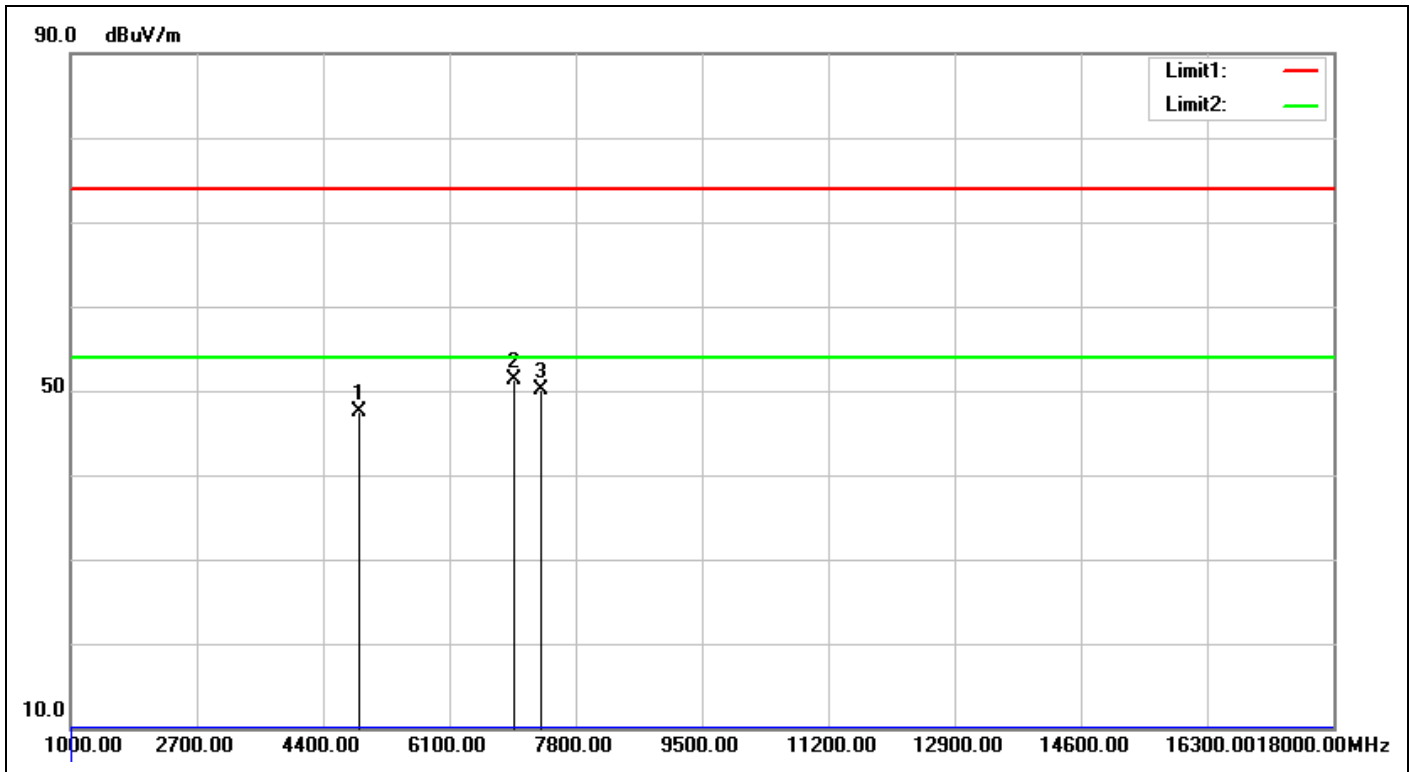
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 21:52:42
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	51.67	49.39	74.00	-24.61	peak		0	
2	5998.000	4.12	46.73	50.85	74.00	-23.15	peak	100	296	
3	7206.000	5.77	44.48	50.25	74.00	-23.75	peak		0	



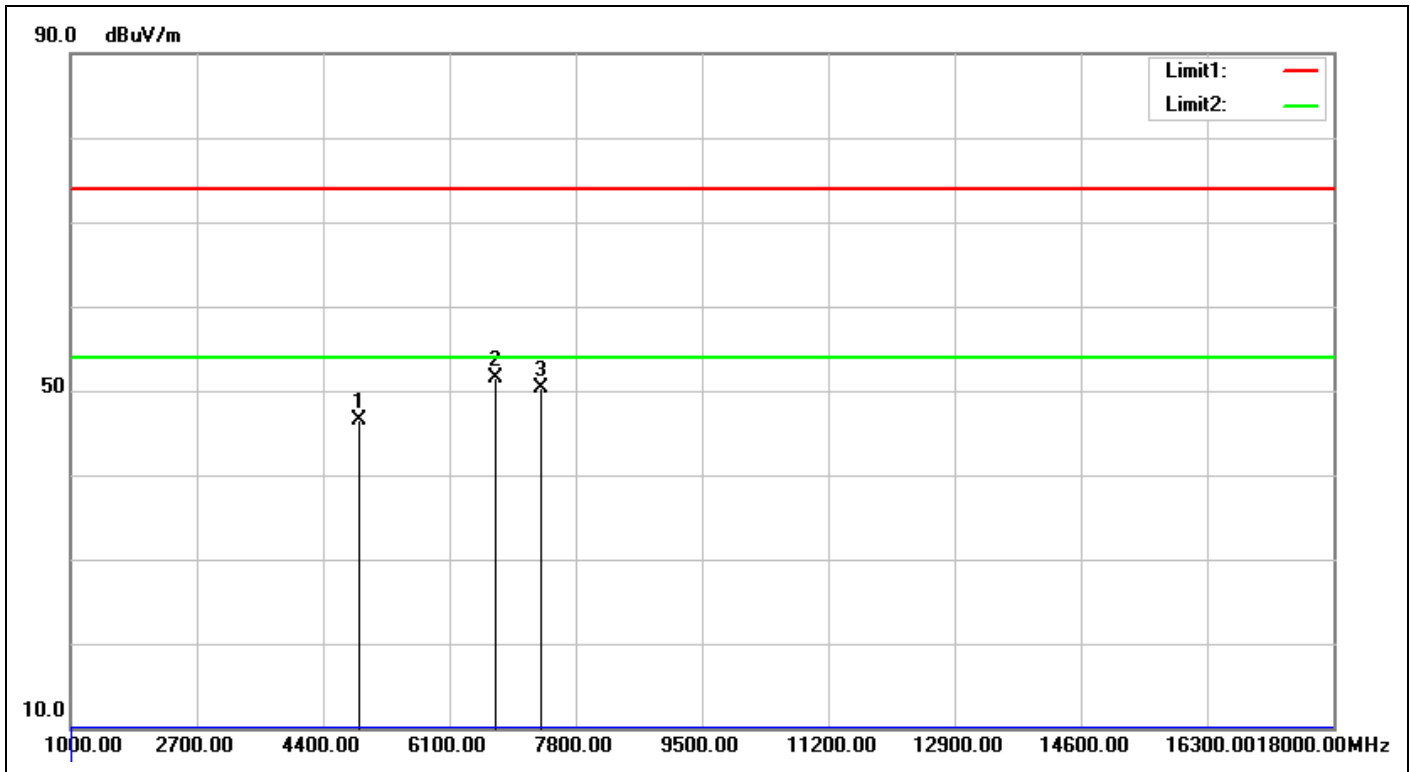
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 21:53:44
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	1DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	49.41	47.13	74.00	-26.87	peak			
2	6236.000	5.02	45.36	50.38	74.00	-23.62	peak	100	332	
3	7206.000	5.77	45.35	51.12	74.00	-22.88	peak			



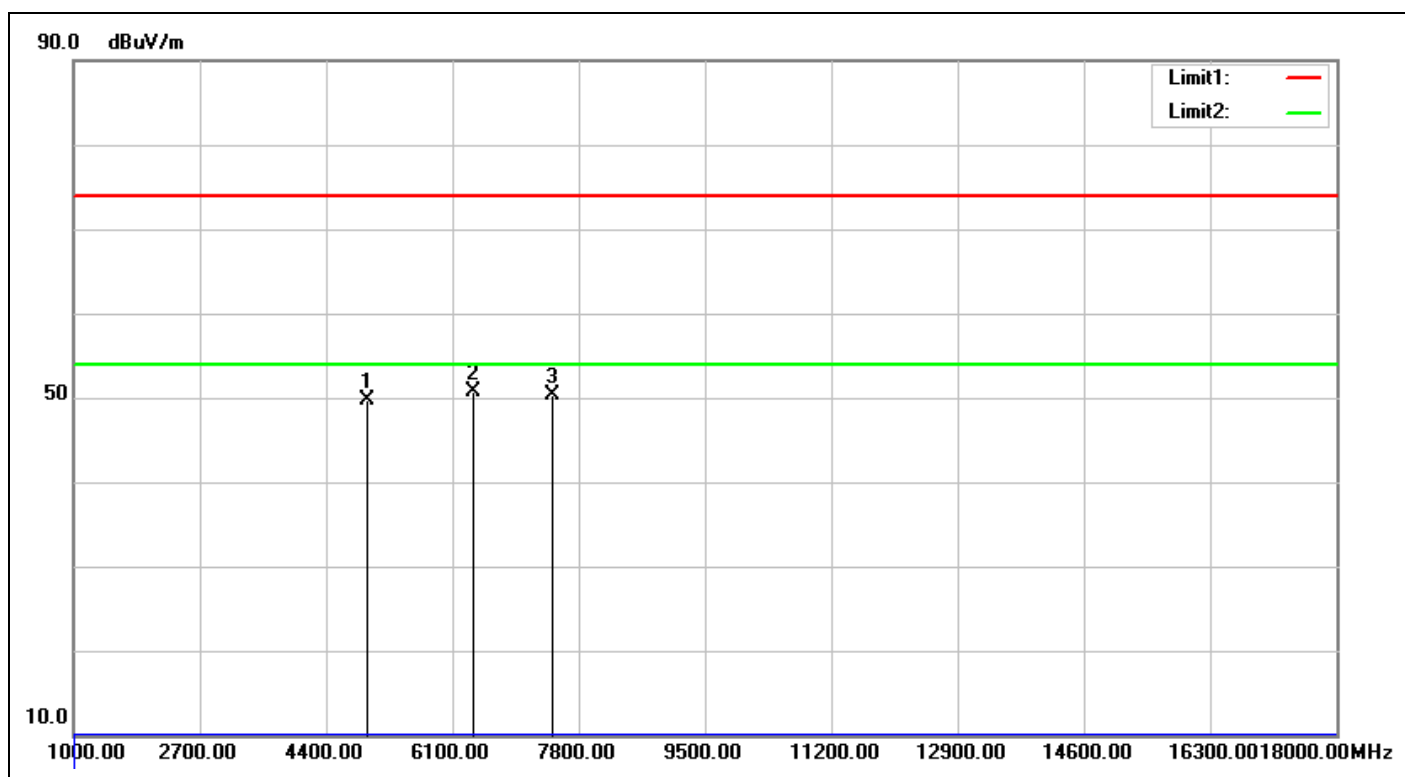
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 21:55:59
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	49.52	47.42	74.00	-26.58	peak			
2	6967.000	5.24	45.99	51.23	74.00	-22.77	peak	100	183	
3	7323.000	6.11	43.92	50.03	74.00	-23.97	peak			



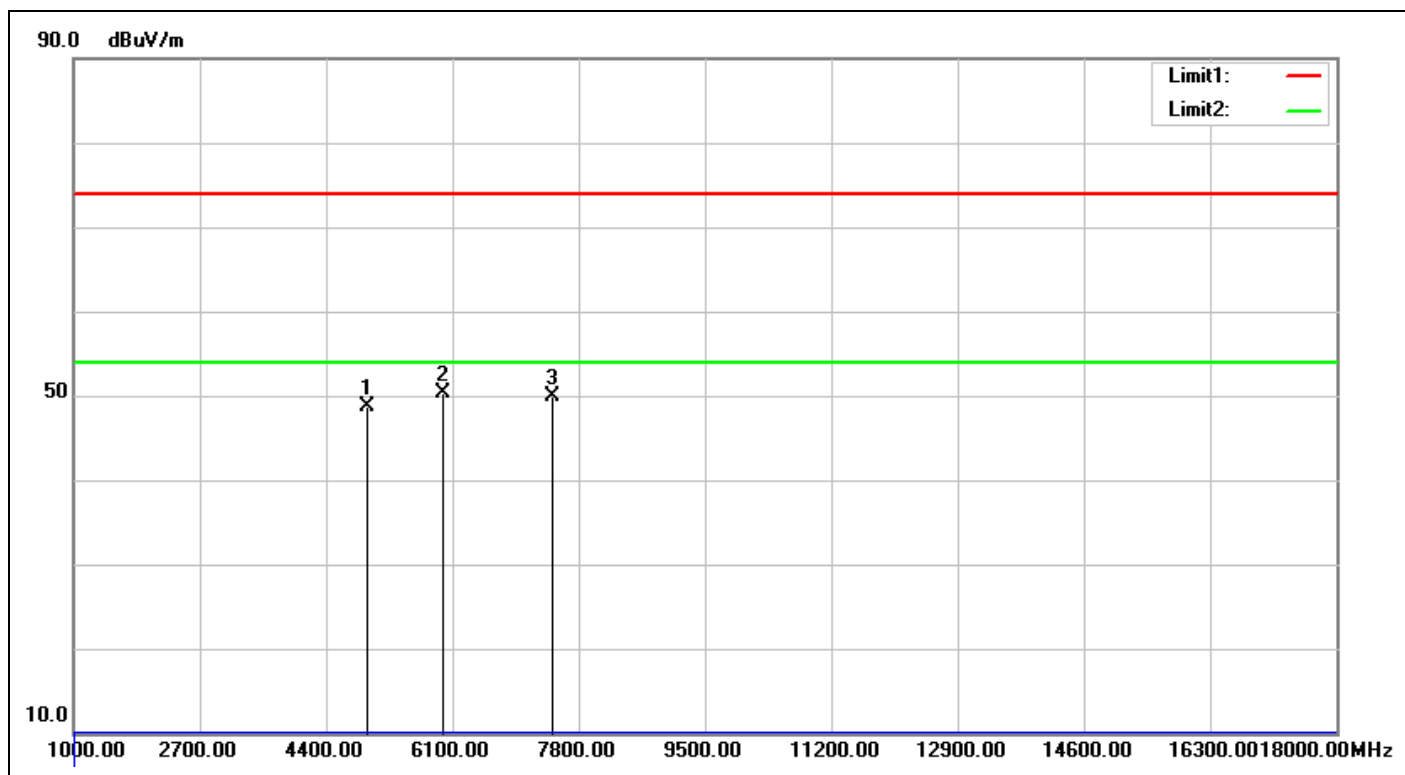
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Test item:	Radiation Emission	Test Time:	2016/3/22 21:57:01
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	1DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	48.64	46.54	74.00	-27.46	peak			
2	6729.000	5.64	45.95	51.59	74.00	-22.41	peak	100	241	
3	7323.000	6.11	44.12	50.23	74.00	-23.77	peak			



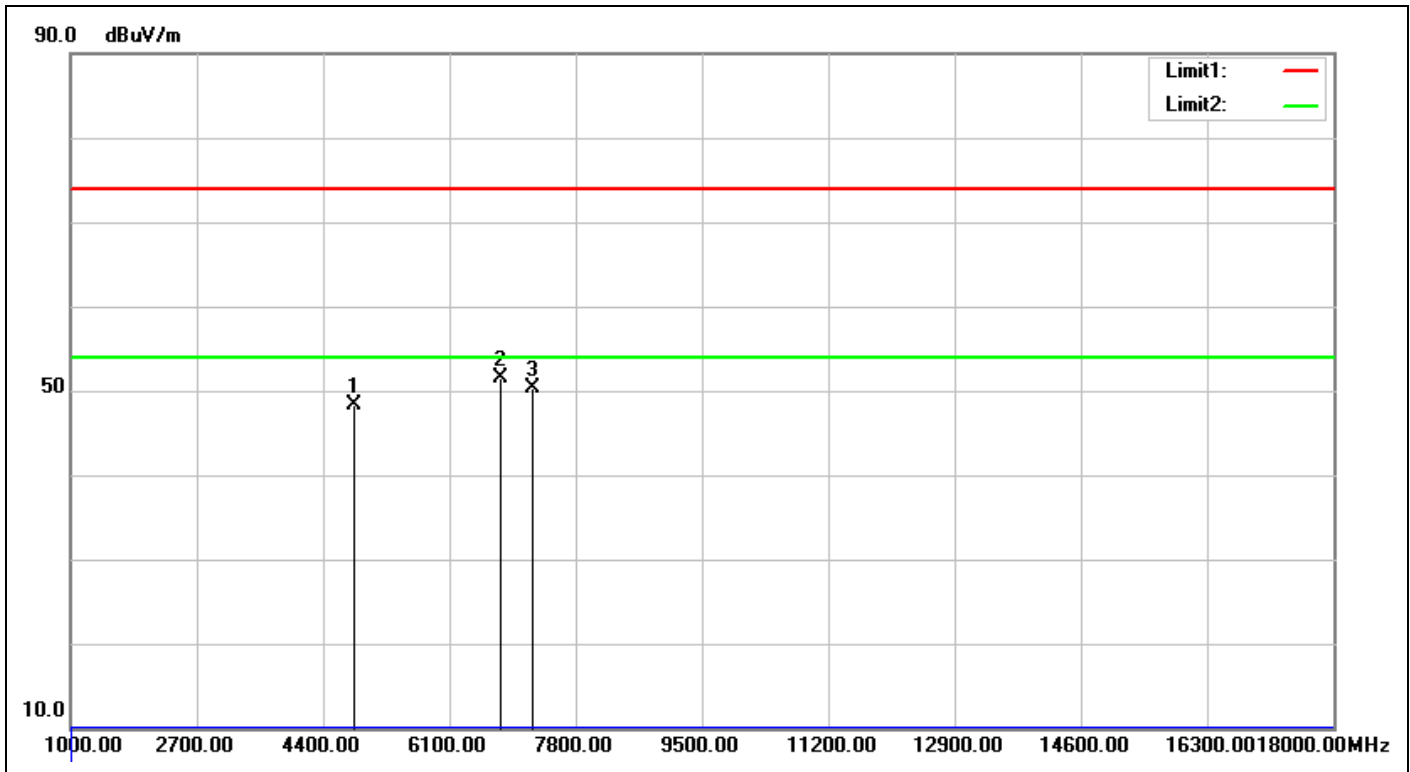
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:00:44
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	51.55	49.64	74.00	-24.36	peak			
2	6389.000	5.61	45.14	50.75	74.00	-23.25	peak	100	30	
3	7440.000	6.44	43.79	50.23	74.00	-23.77	peak			



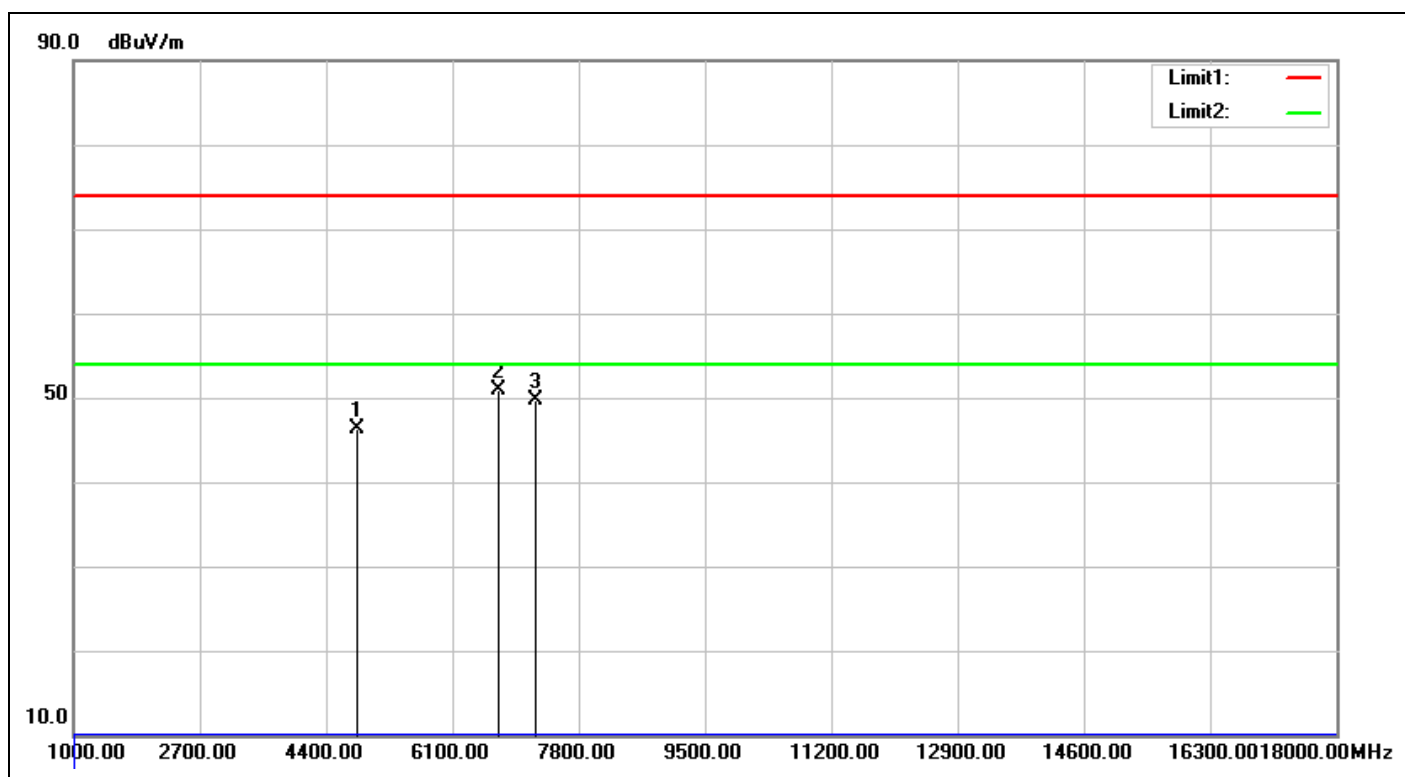
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:01:46
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	1DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	50.56	48.65	74.00	-25.35	peak			
2	5964.000	3.89	46.38	50.27	74.00	-23.73	peak	100	219	
3	7440.000	6.44	43.38	49.82	74.00	-24.18	peak			



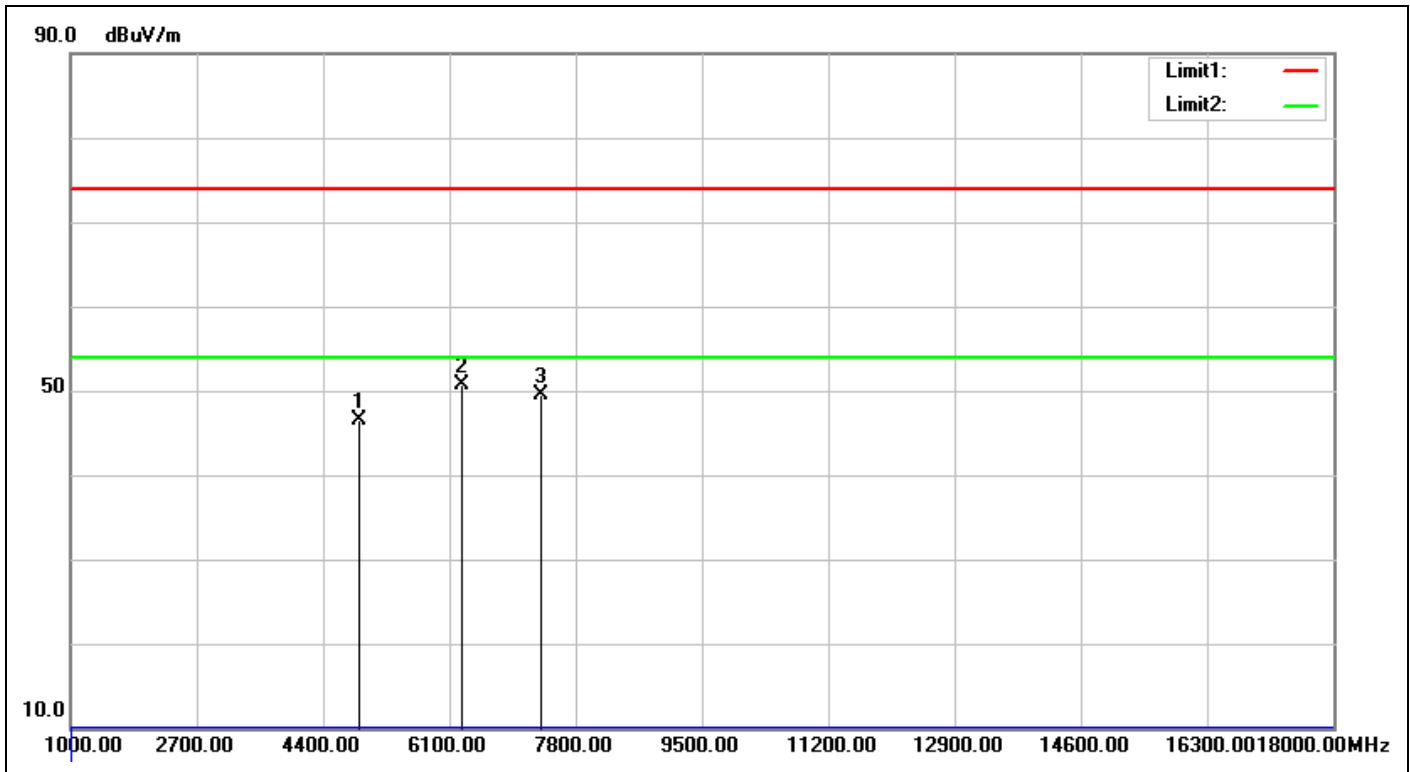
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:04:51
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	50.60	48.32	74.00	-25.68	peak			
2	6797.000	5.52	46.03	51.55	74.00	-22.45	peak	100	360	
3	7206.000	5.77	44.51	50.28	74.00	-23.72	peak			



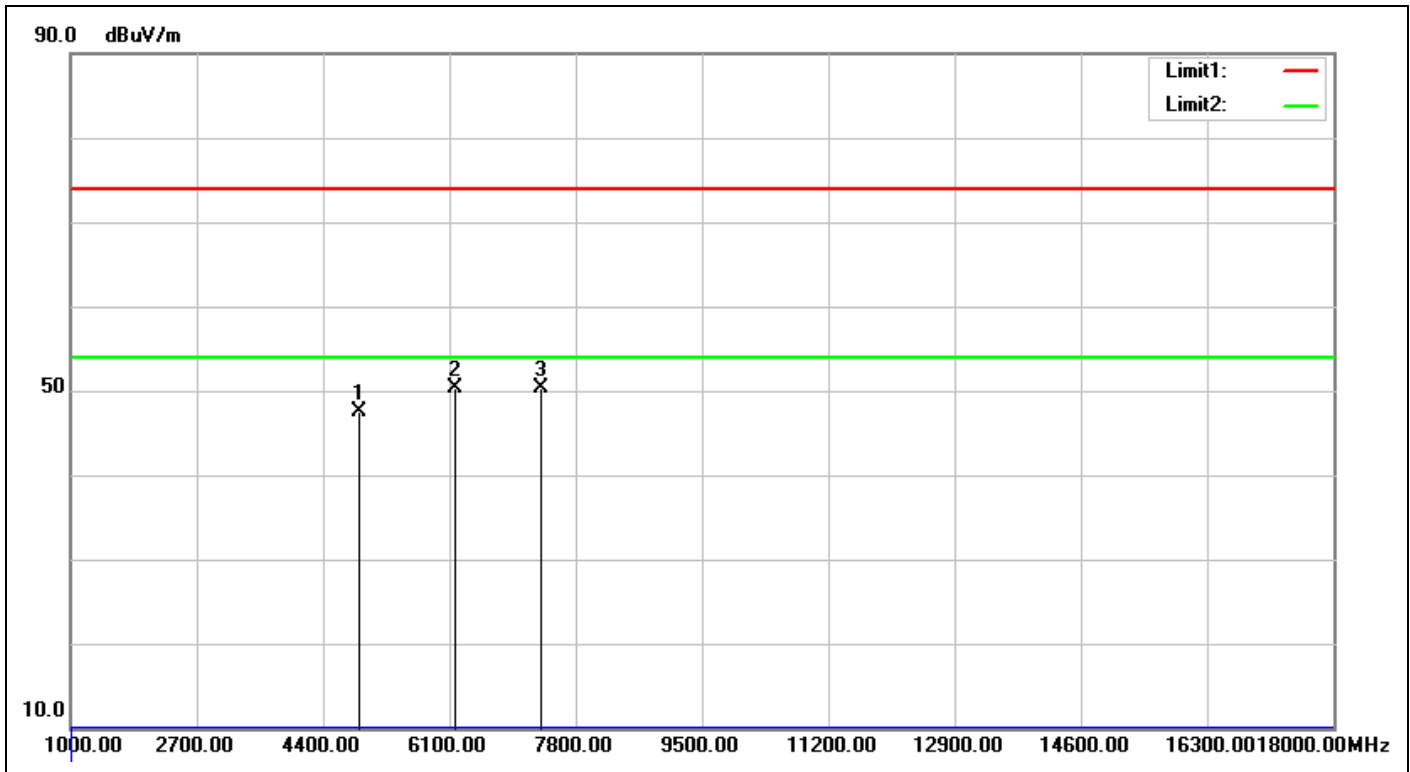
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:05:53
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	3DH5-2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.28	48.61	46.33	74.00	-27.67	peak			
2	6729.000	5.64	45.21	50.85	74.00	-23.15	peak	100	189	
3	7206.000	5.77	43.94	49.71	74.00	-24.29	peak			



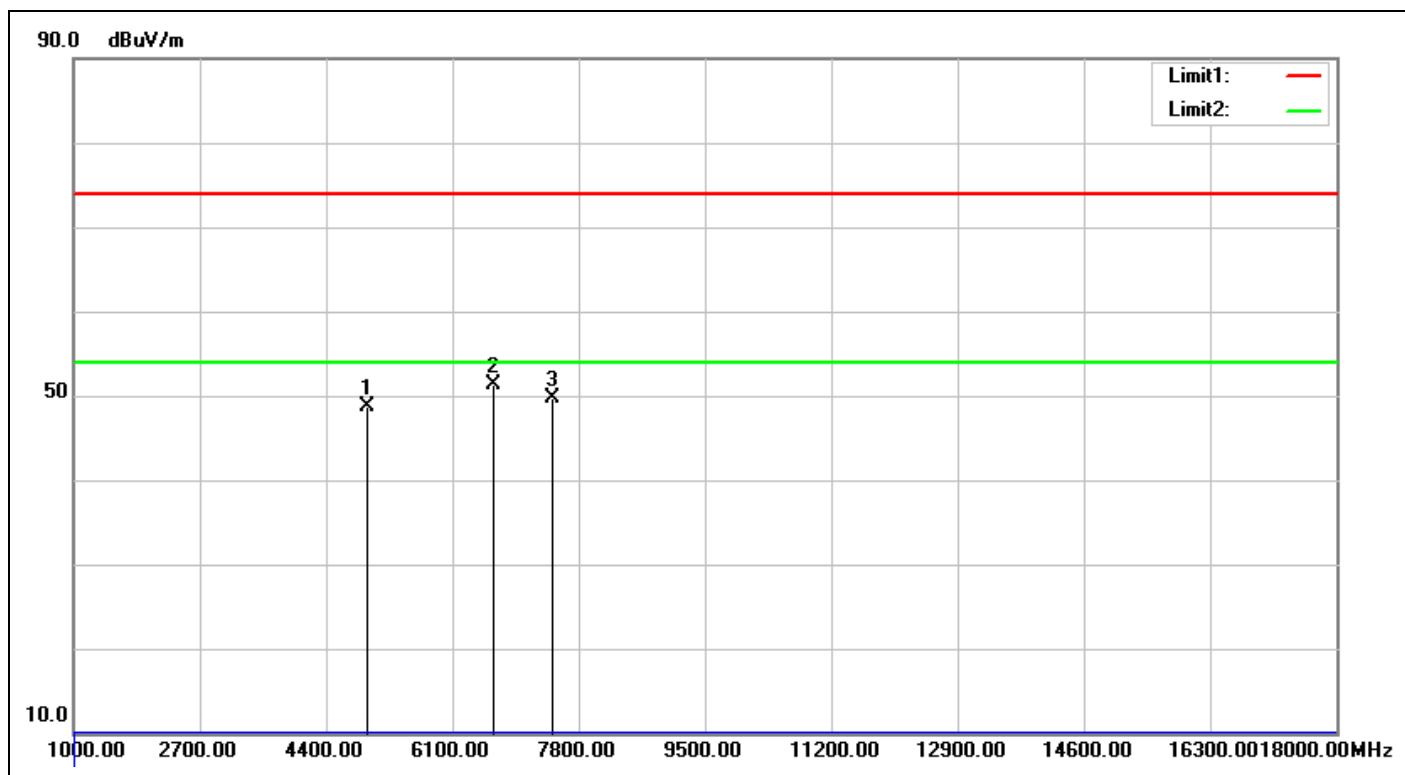
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:08:04
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	48.67	46.57	74.00	-27.43	peak			
2	6270.000	5.14	45.50	50.64	74.00	-23.36	peak	100	25	
3	7323.000	6.11	43.43	49.54	74.00	-24.46	peak			



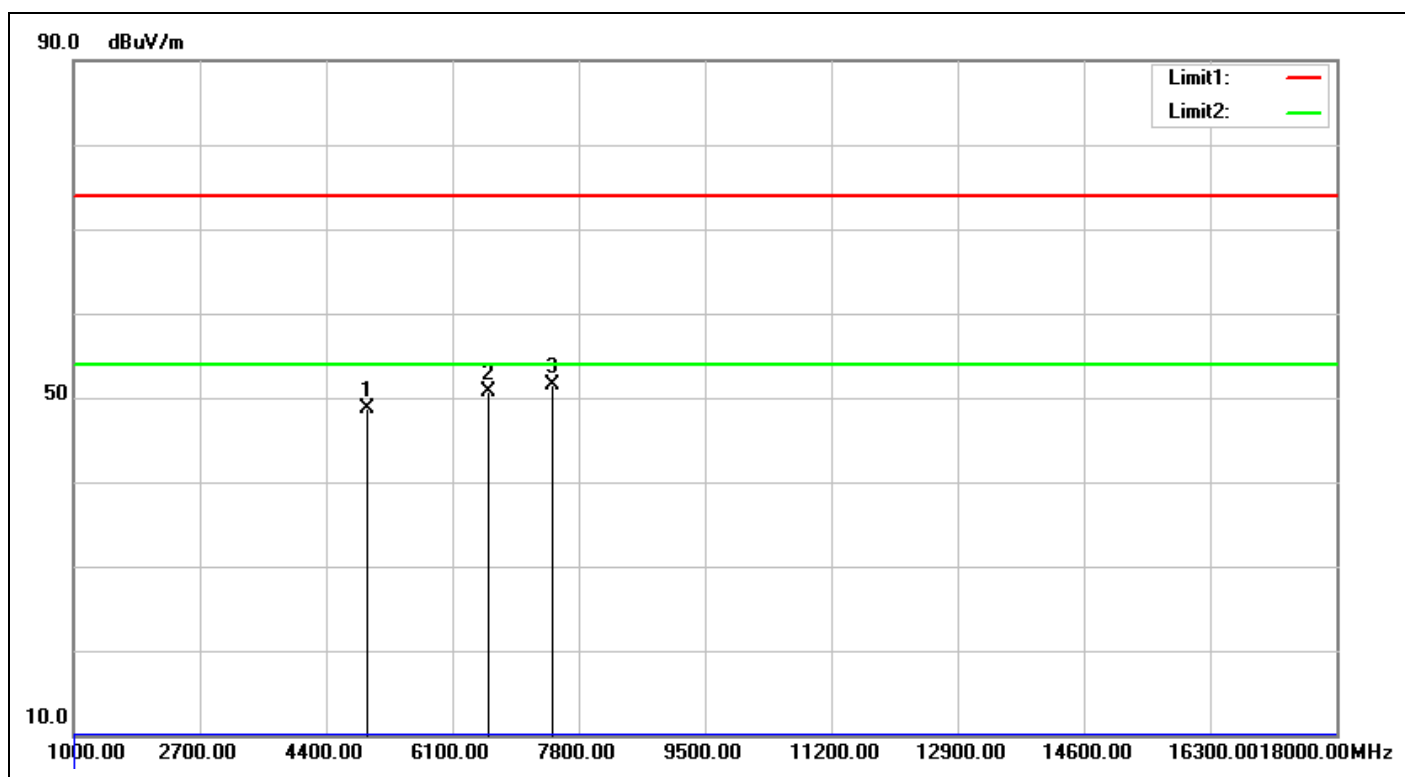
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:09:06
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	3DH5-2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4882.000	-2.10	49.55	47.45	74.00	-26.55	peak			
2	6185.000	4.83	45.39	50.22	74.00	-23.78	peak	100	216	
3	7323.000	6.11	44.28	50.39	74.00	-23.61	peak			



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:13:07
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	50.70	48.79	74.00	-25.21	peak			
2	6644.000	5.78	45.50	51.28	74.00	-22.72	peak	100	75	
3	7440.000	6.44	43.17	49.61	74.00	-24.39	peak			



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:14:09
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
Test Mode:	3DH5-2480-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4960.000	-1.91	50.54	48.63	74.00	-25.37	peak			
2	6593.000	5.86	44.85	50.71	74.00	-23.29	peak	100	211	
3	7440.000	6.44	45.04	51.48	74.00	-22.52	peak			

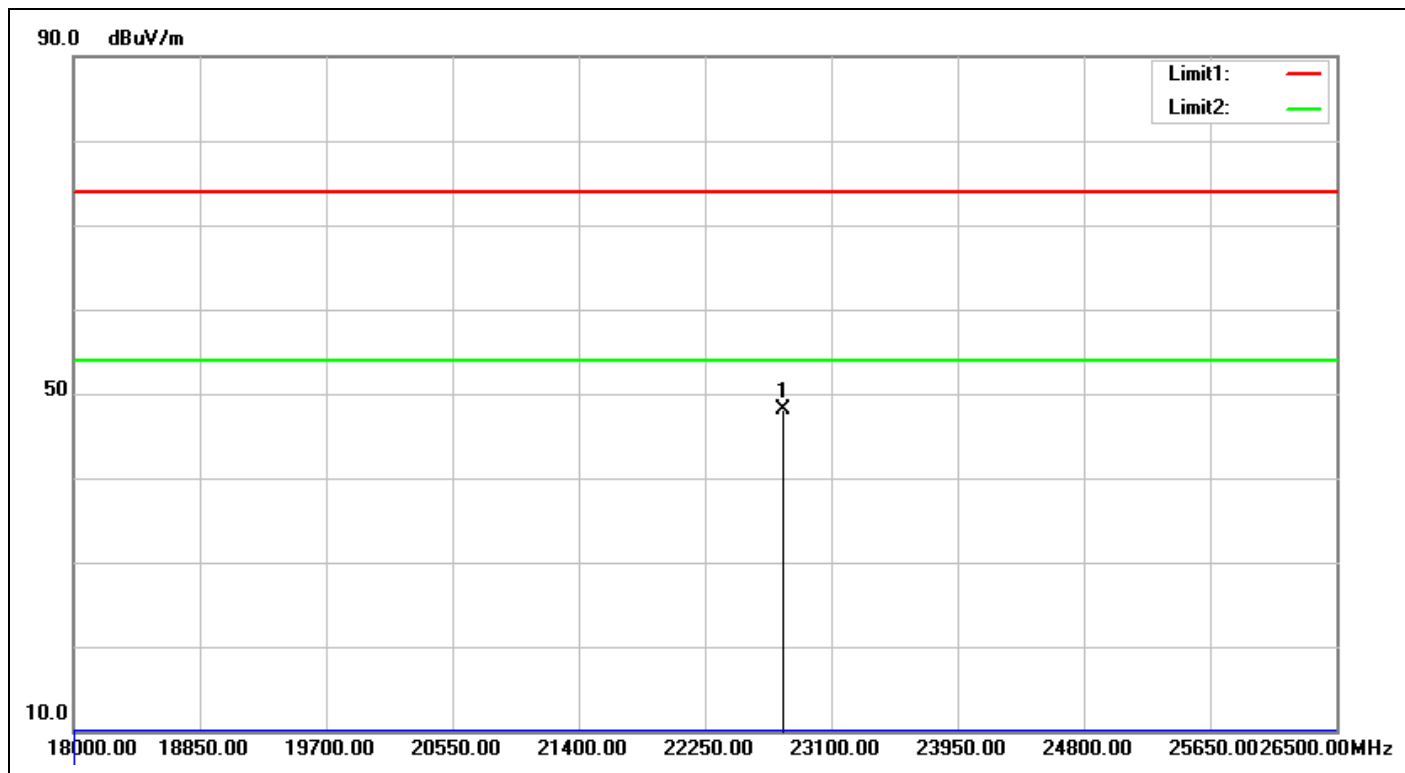
Spurious Emissions, TX Mode, 18-26G



TUV Taiwan

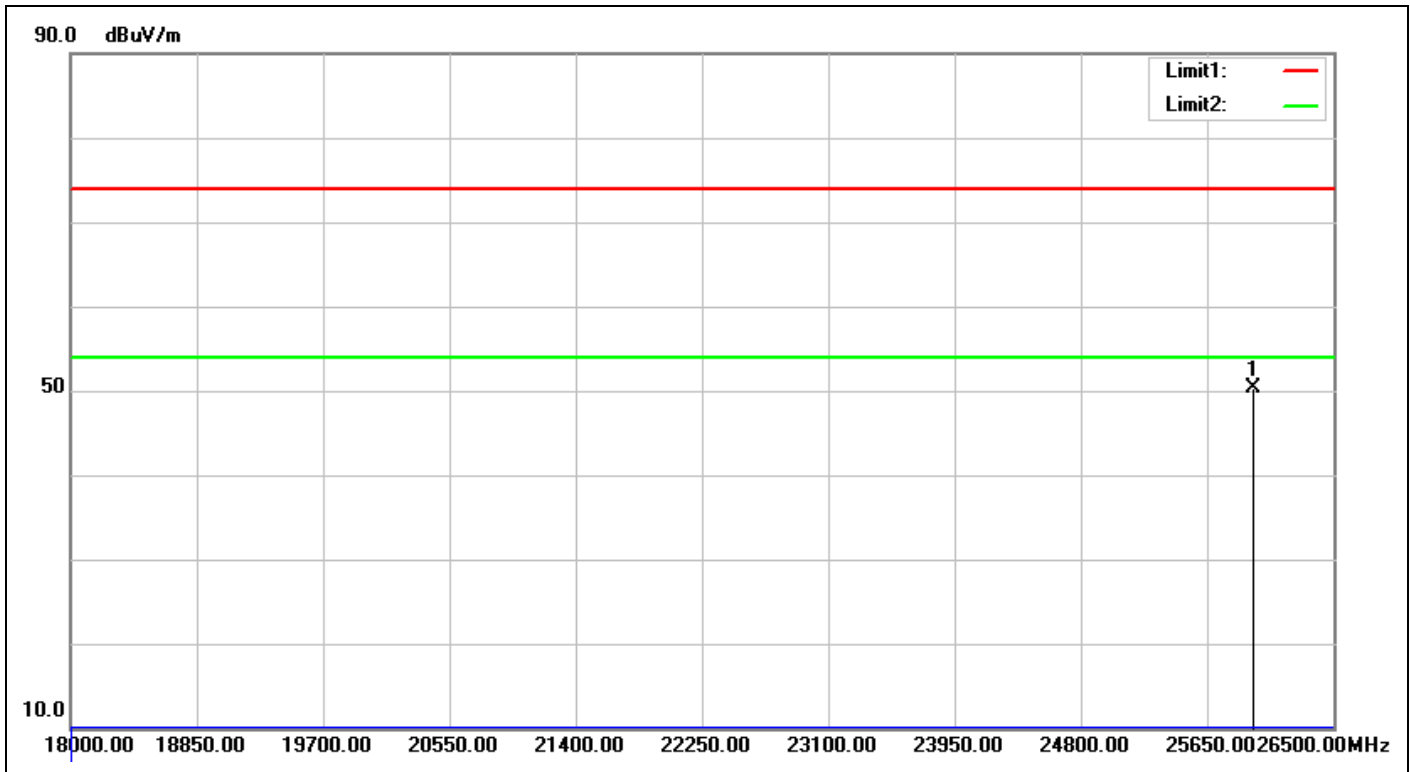
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



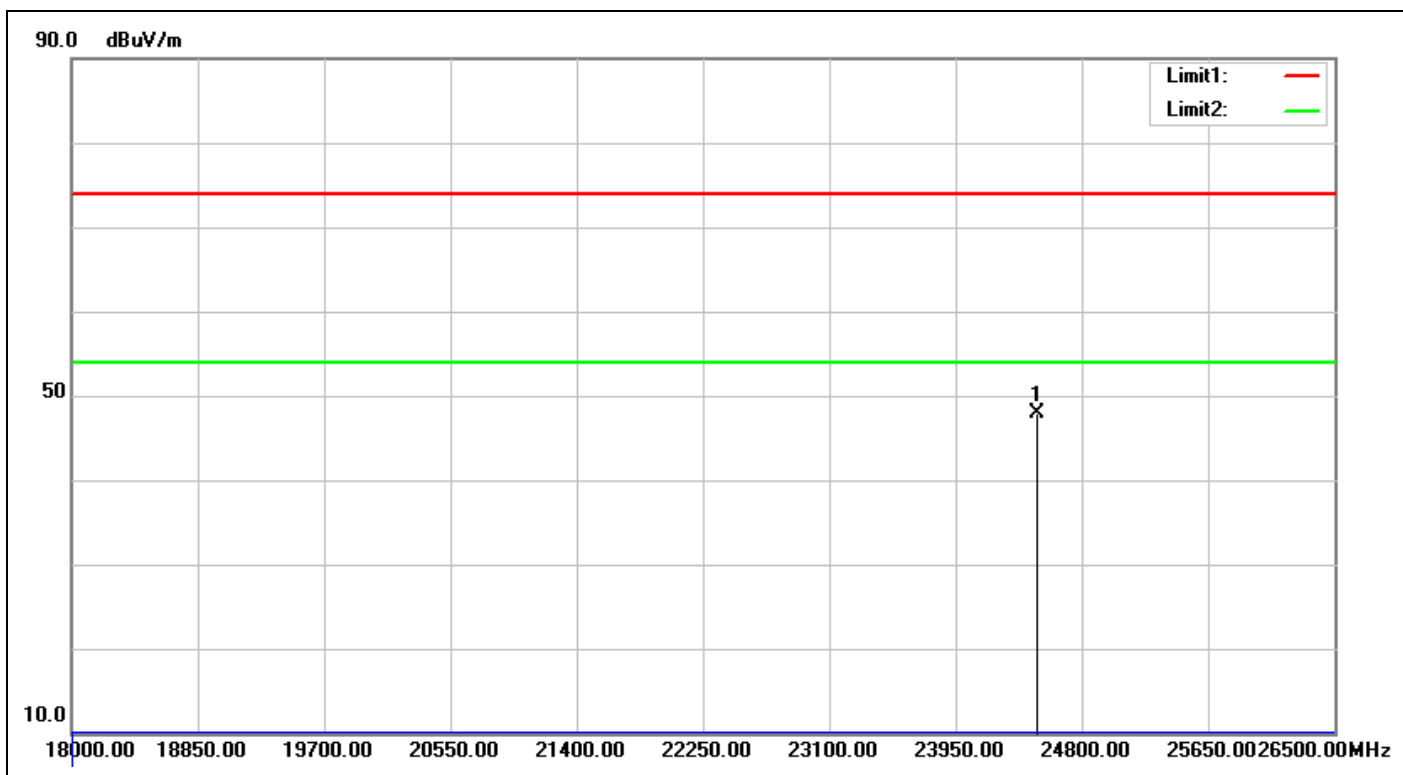
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:49:27
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	22777.000	30.15	17.98	48.13	74.00	-25.87	peak		0	



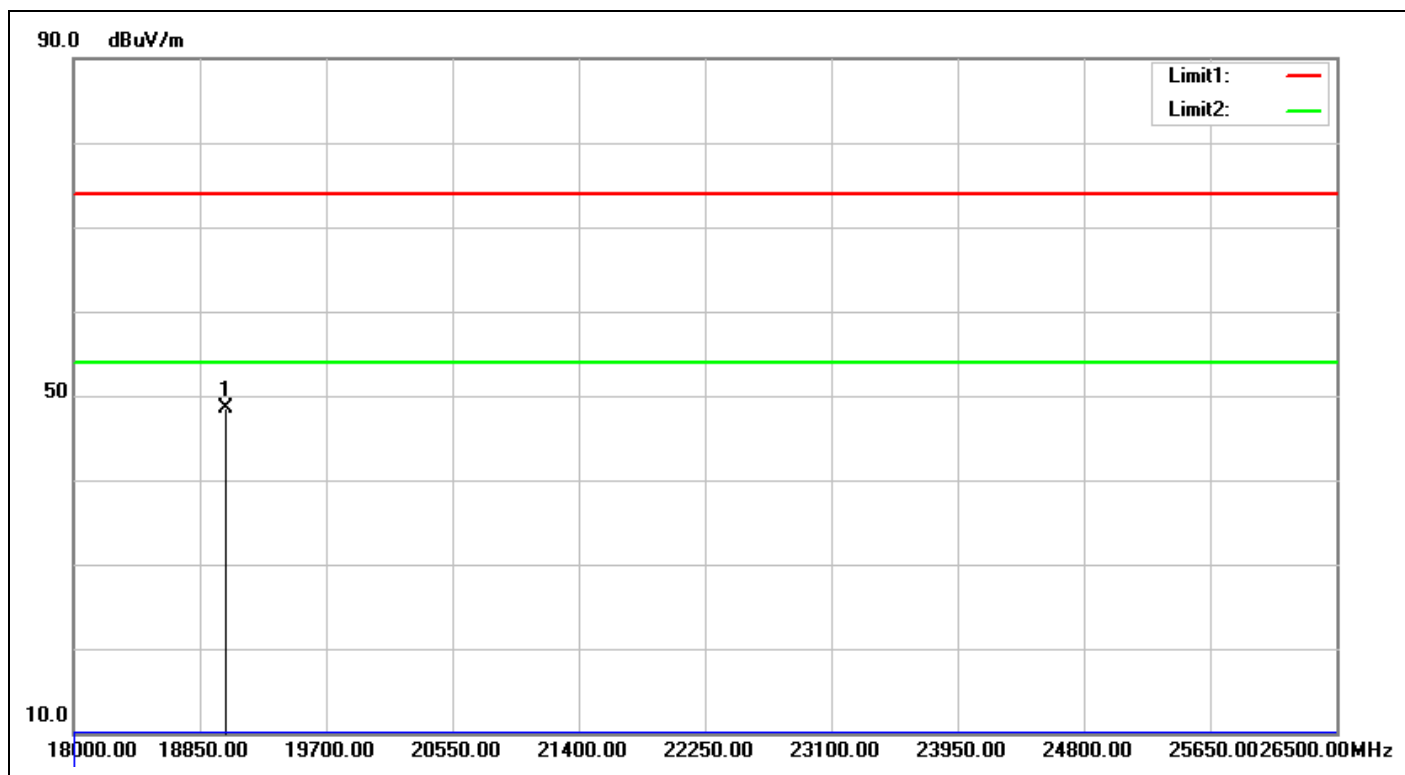
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:49:33
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	25964.500	32.42	17.91	50.33	74.00	-23.67	peak			



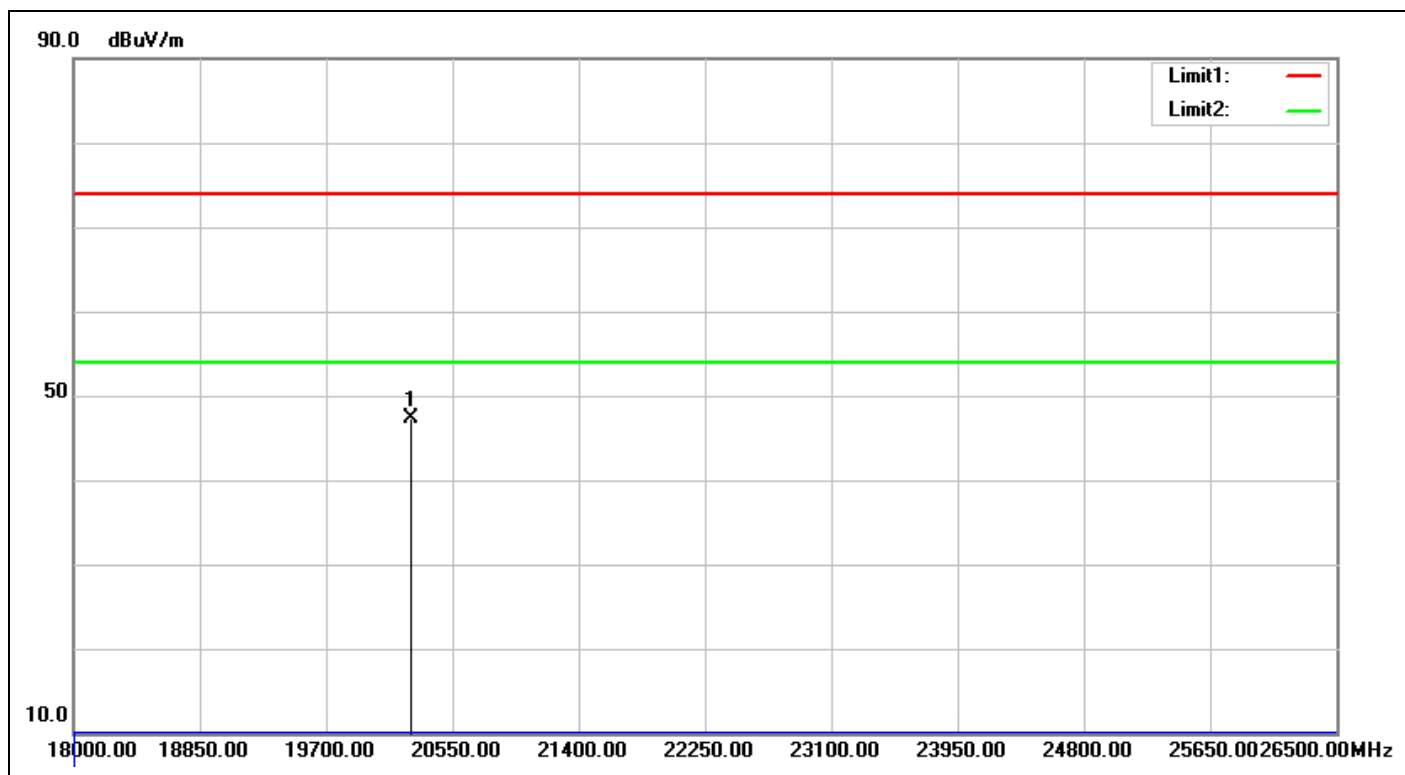
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:49:47
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	24494.000	30.43	17.57	48.00	74.00	-26.00	peak			



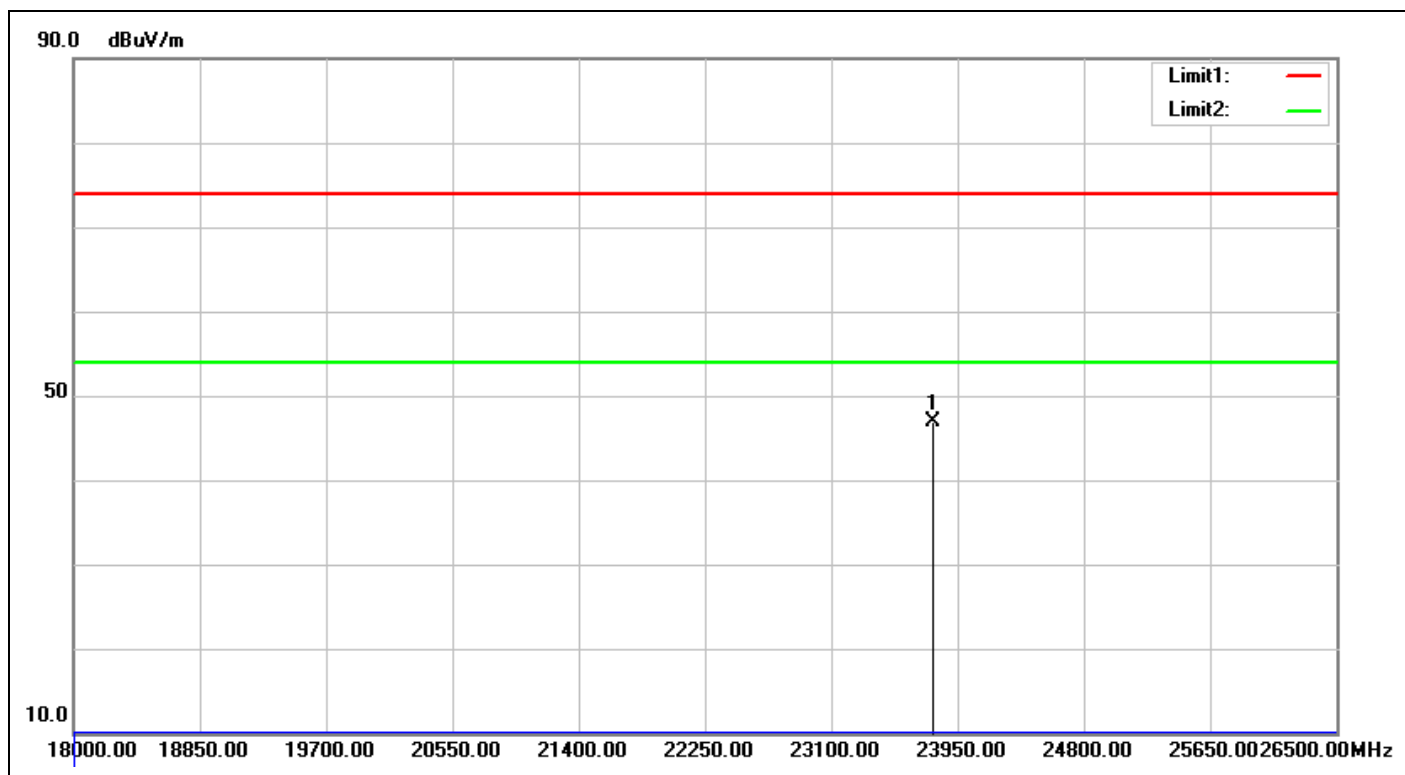
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:49:54
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	19028.500	29.46	19.07	48.53	74.00	-25.47	peak			



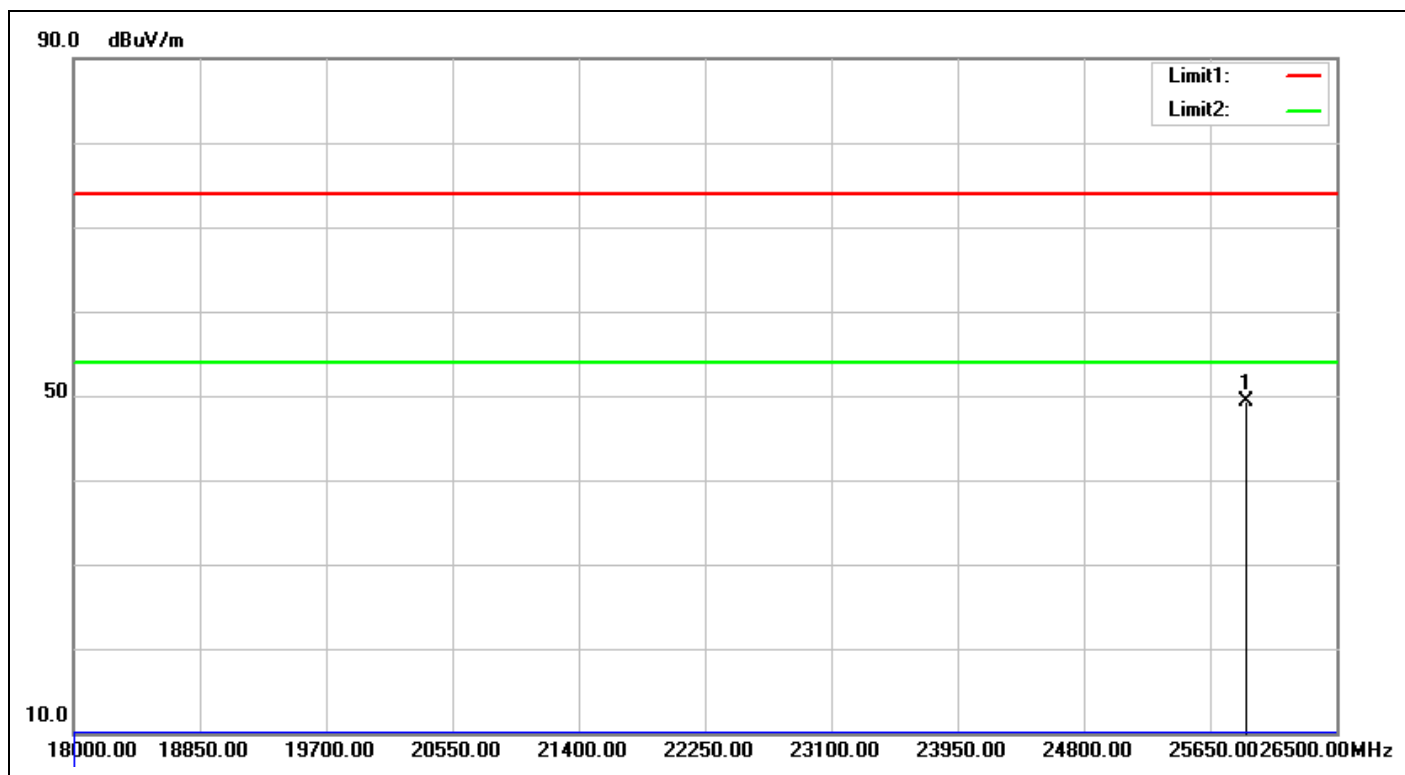
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:50:06
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	20269.500	29.73	17.53	47.26	74.00	-26.74	peak			



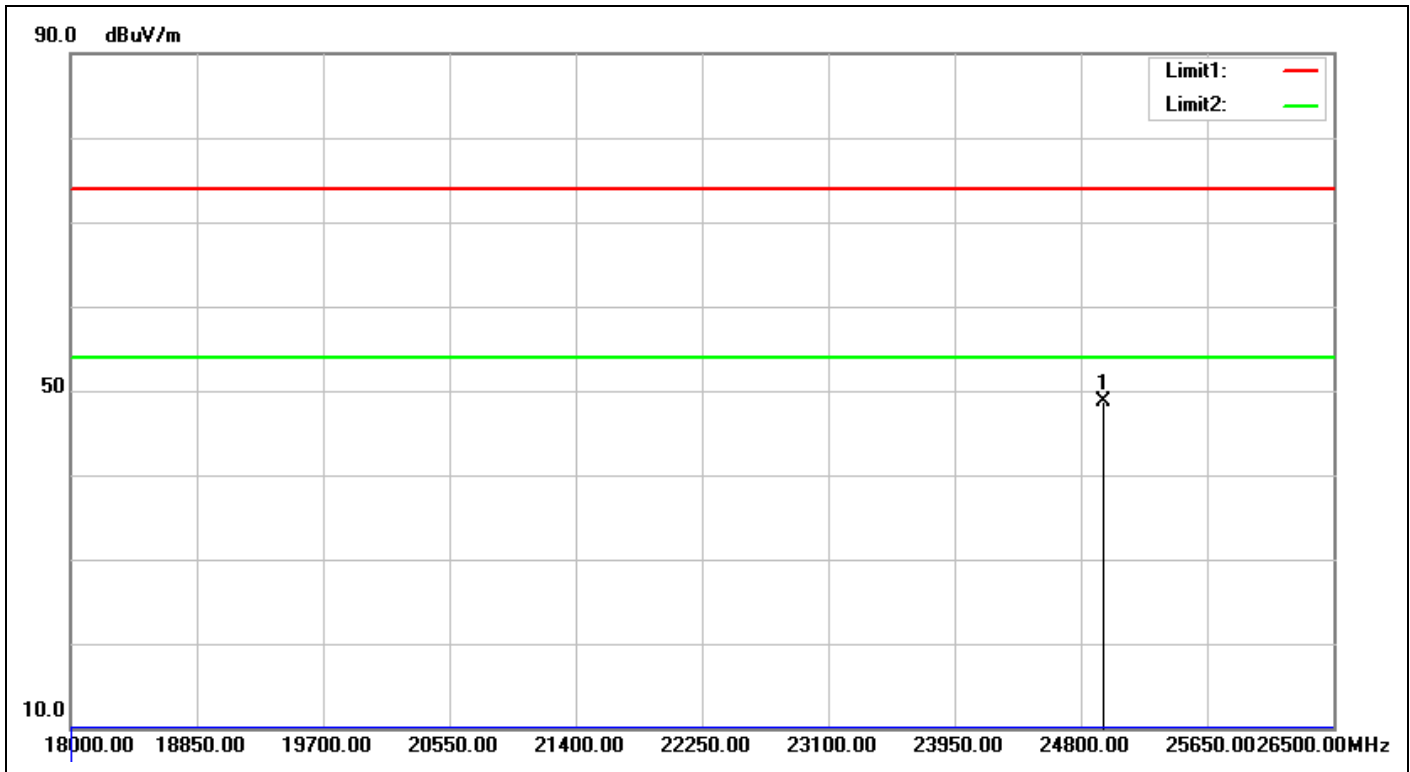
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:50:13
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	23780.000	29.81	17.06	46.87	74.00	-27.13	peak			



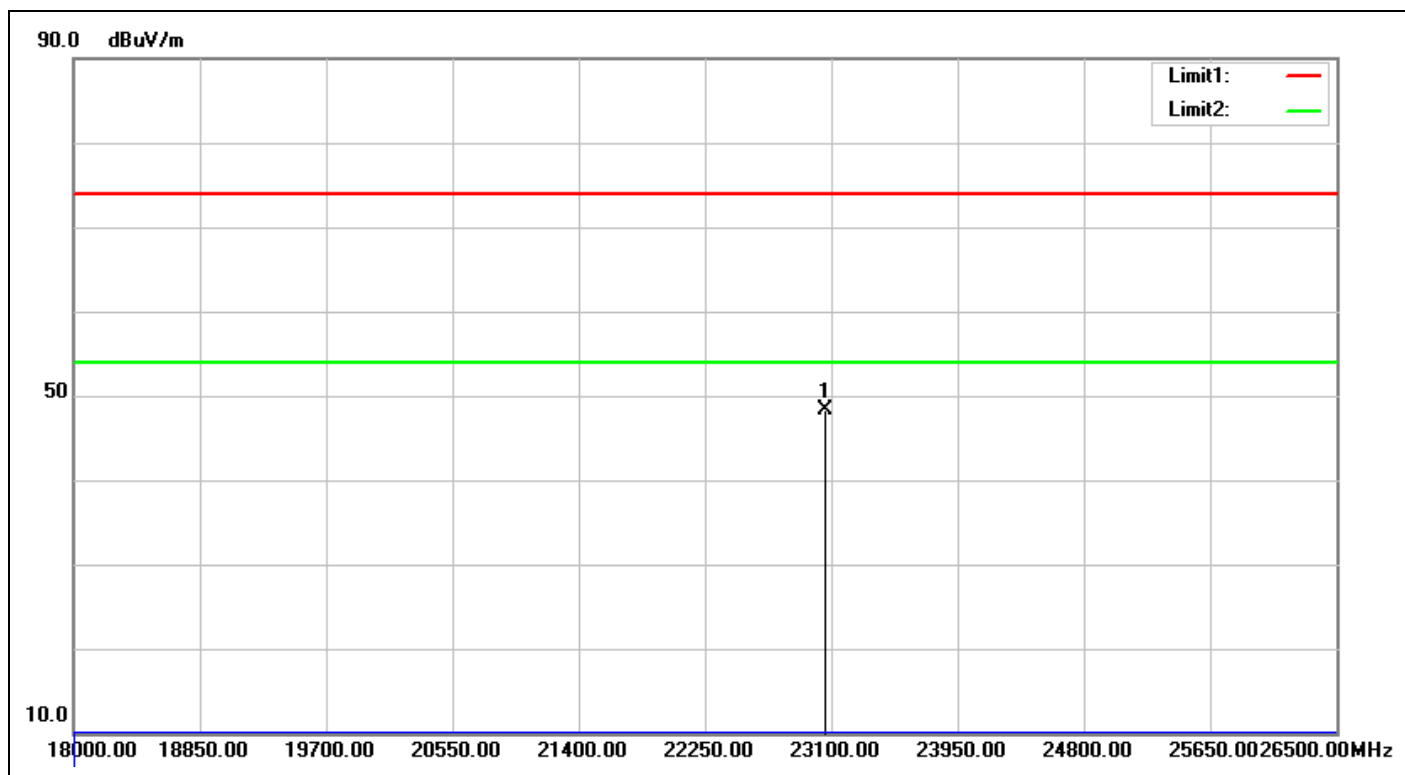
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:50:29
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	25888.000	32.31	16.97	49.28	74.00	-24.72	peak			



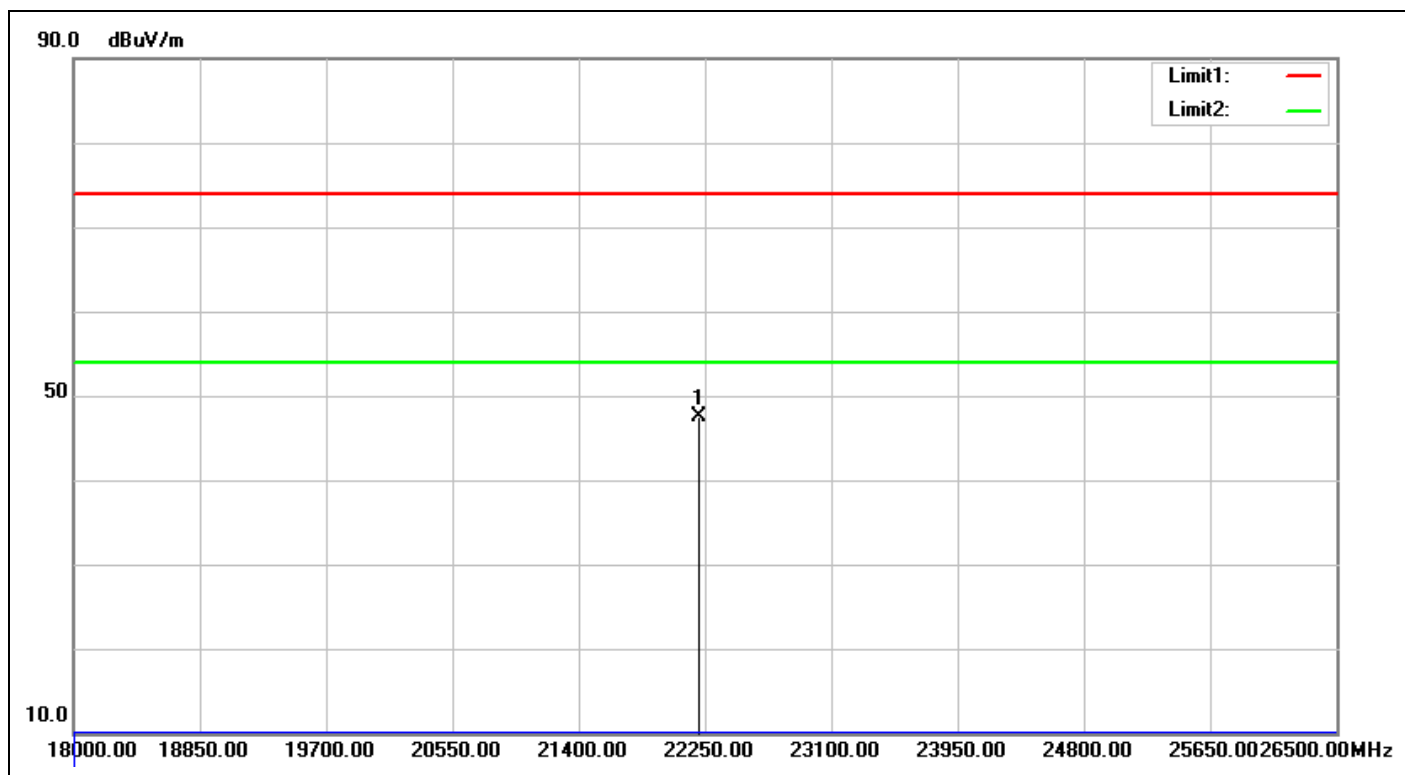
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:50:37
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	24953.000	31.18	17.64	48.64	74.00	-25.36	peak			



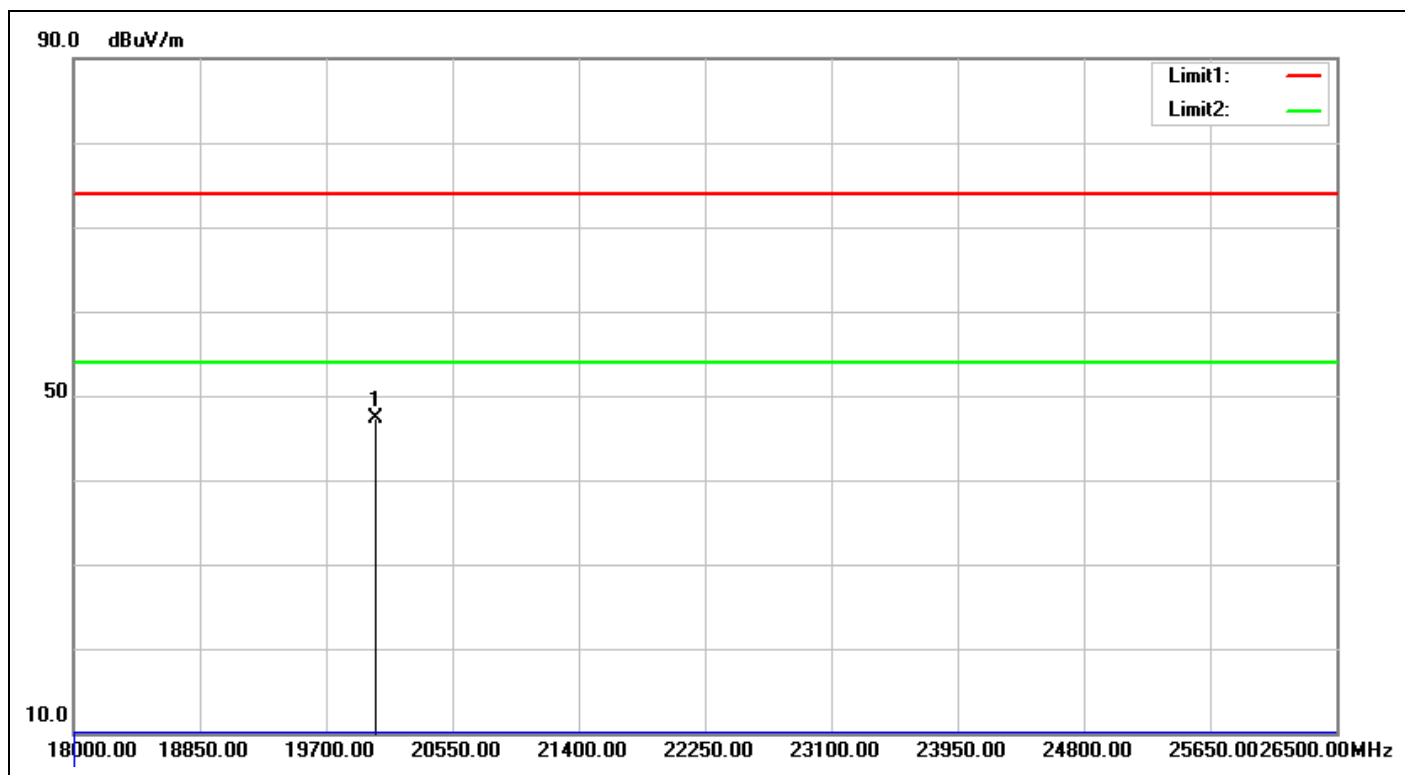
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:50:48
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	23057.500	30.44	17.92	48.36	74.00	-25.64	peak			



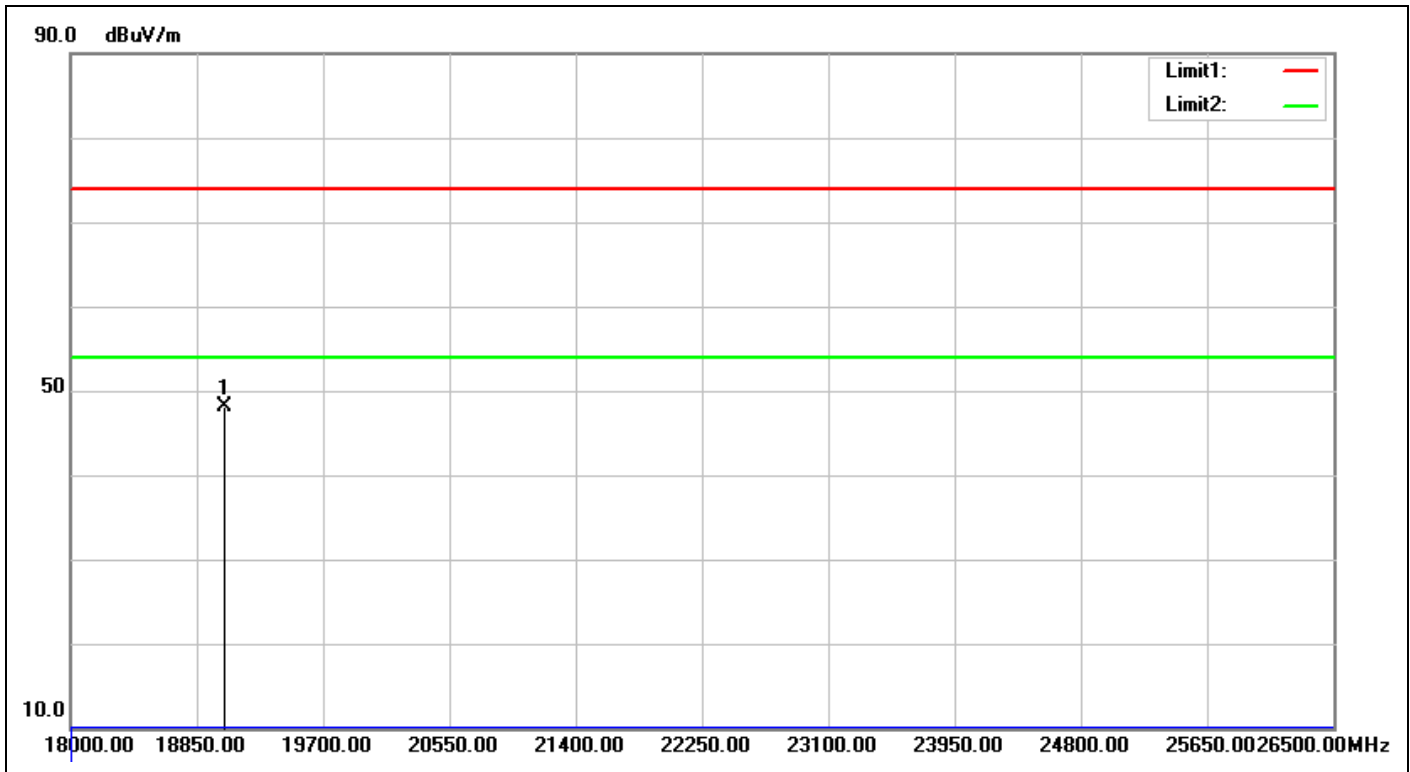
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:51:03
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	22207.500	29.32	18.22	47.54	74.00	-26.46	peak			



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:51:15
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	20031.500	29.59	17.68	47.27	74.00	-26.73	peak			



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:51:22
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	19037.000	29.46	18.69	48.15	74.00	-25.85	peak			

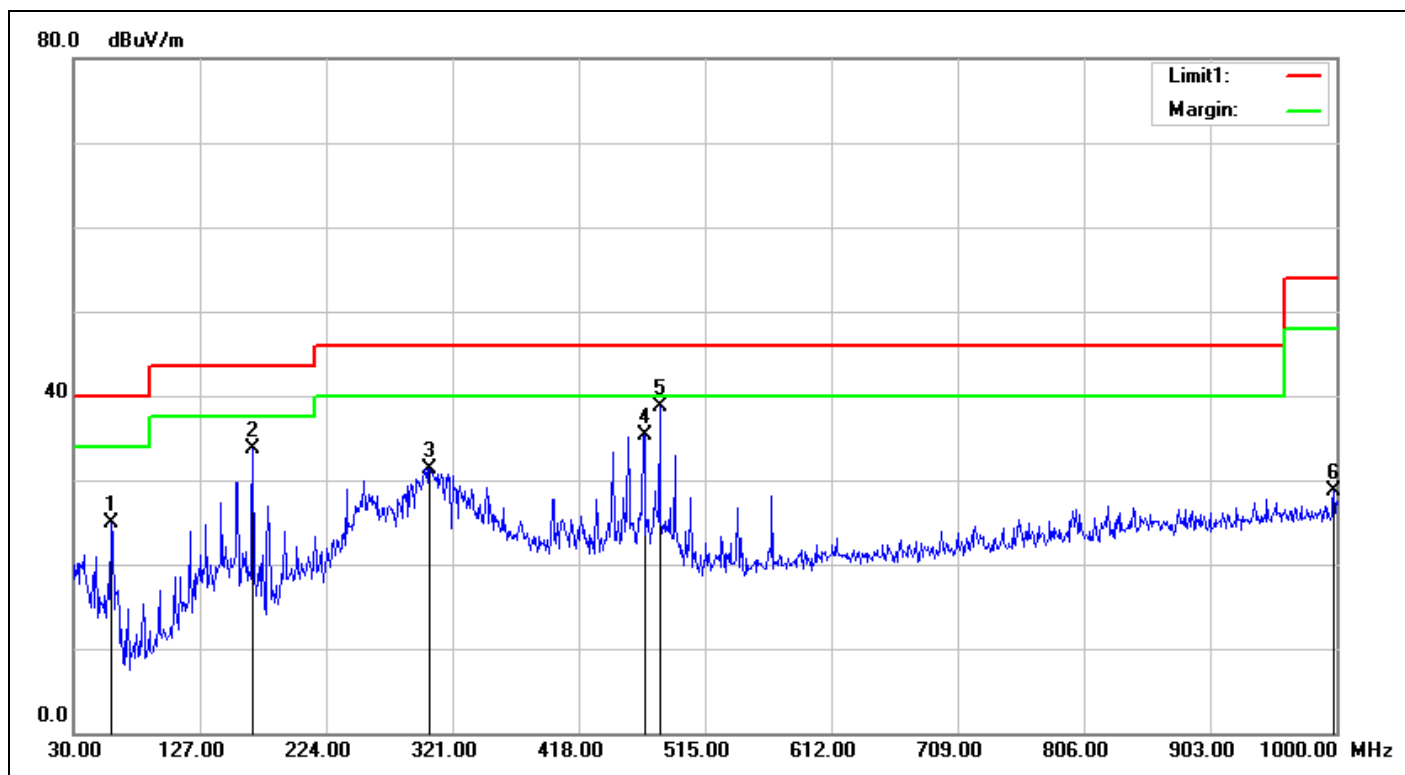
Spurious Emissions, TX Mode, 30M-1G



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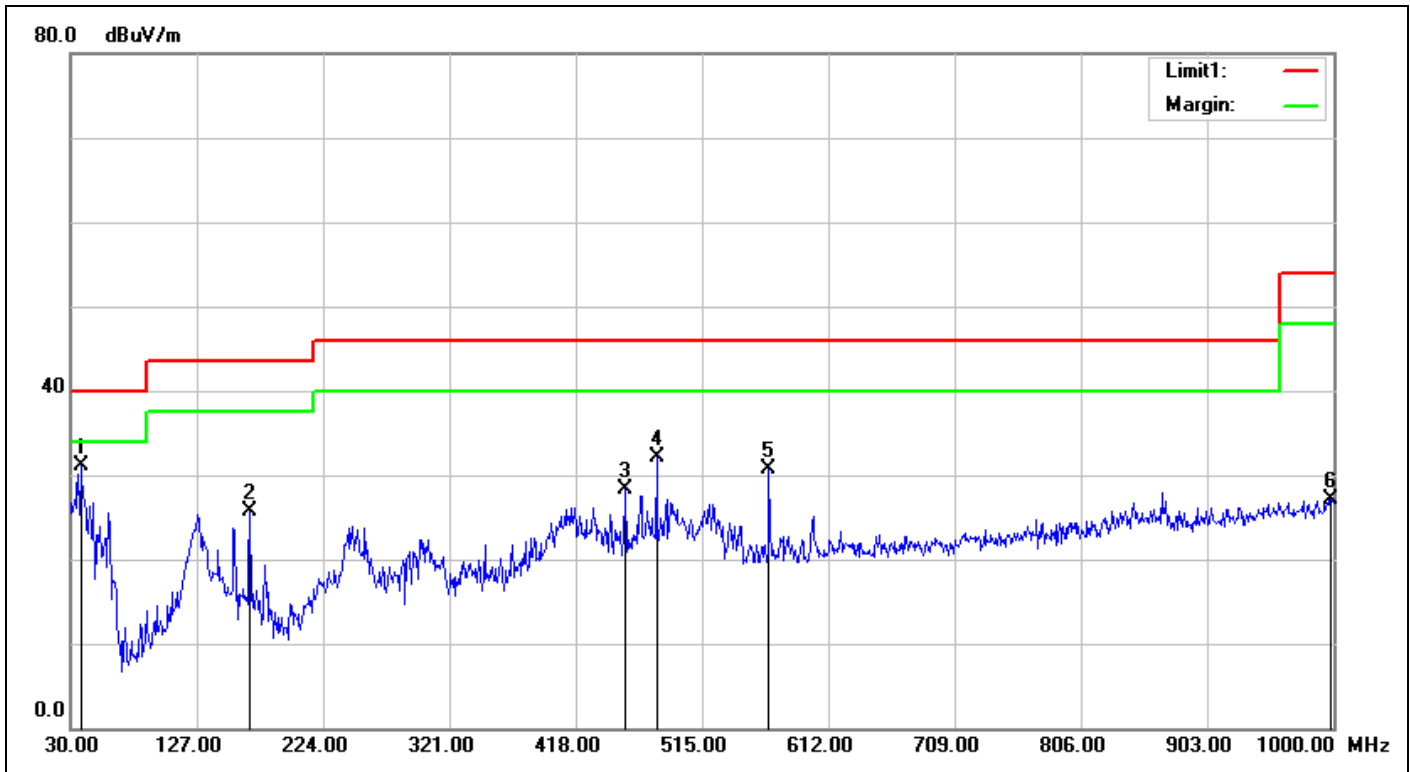
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 19:39:45
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	59.1000	-19.49	44.42	24.93	40.00	-15.07	QP	100	264	
2	167.7400	-14.60	48.28	33.68	43.50	-9.82	QP	100	102	
3	303.5400	-10.40	41.67	31.27	46.00	-14.73	QP	100	264	
4	468.4399	-7.77	43.11	35.34	46.00	-10.66	QP	100	230	
5	480.0799	-7.59	46.31	38.72	46.00	-7.28	QP	100	227	
6	998.0599	-0.01	28.70	28.69	54.00	-25.31	QP	100	78	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 19:40:47
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	37.7599	-10.20	41.29	31.09	40.00	-8.91	QP	100	197	
2	167.7400	-14.60	40.23	25.63	43.50	-17.87	QP	100	154	
3	455.8300	-7.95	36.33	28.38	46.00	-17.62	QP	100	149	
4	480.0800	-7.59	39.64	32.05	46.00	-13.95	QP	100	29	
5	566.4099	-6.66	37.44	30.78	46.00	-15.22	QP	100	149	
6	998.0600	-0.01	27.09	27.08	54.00	-26.92	QP	100	287	

Spurious Emissions, TX Mode, 30M-1G

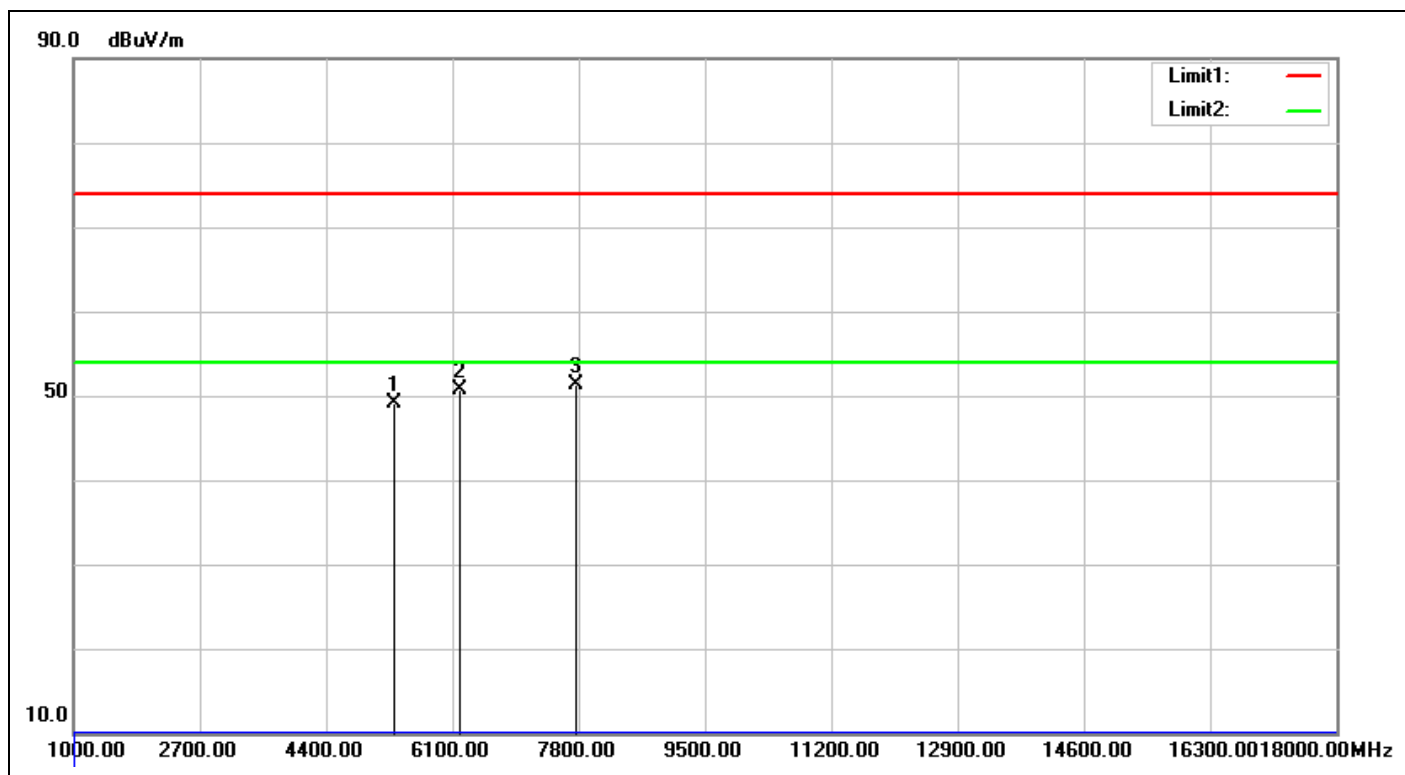
Spurious Emissions, RX Mode, 1-18G



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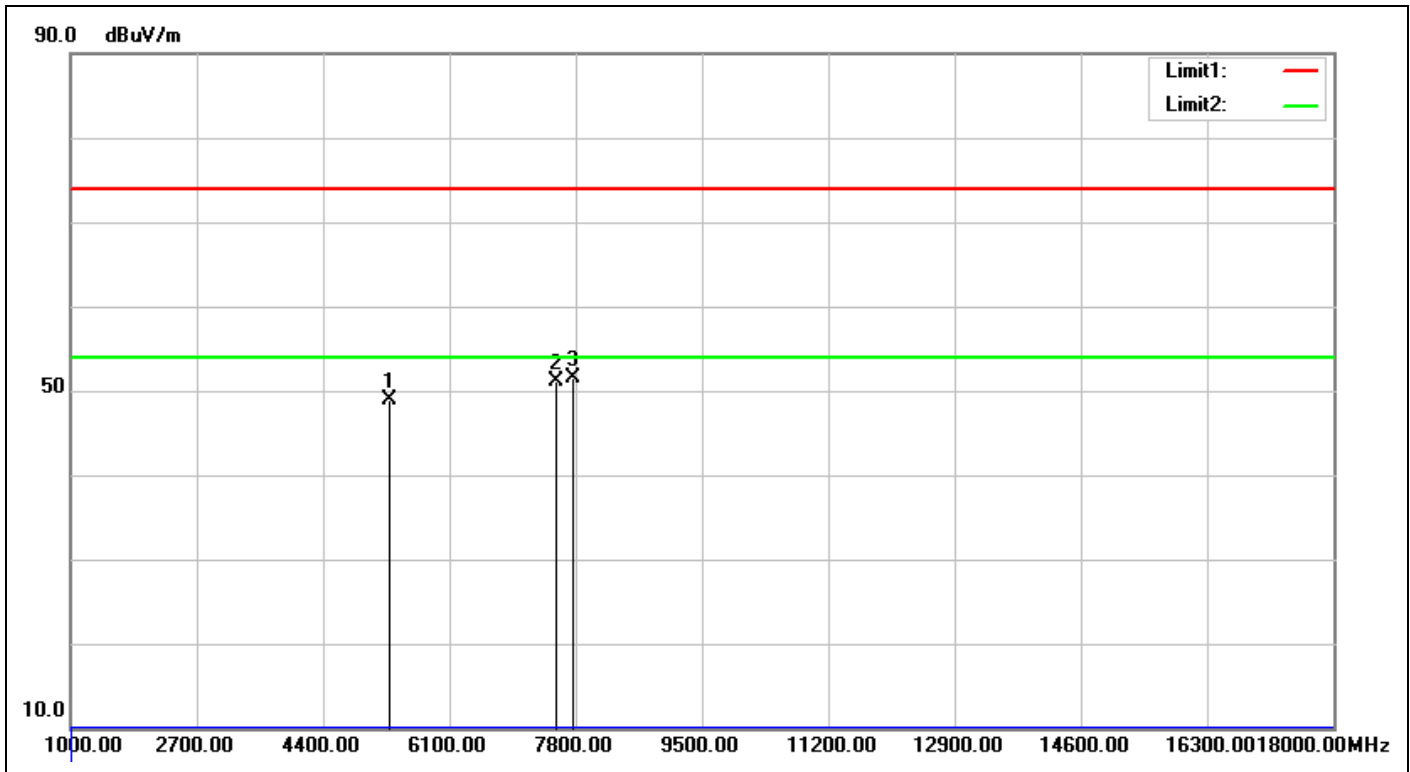
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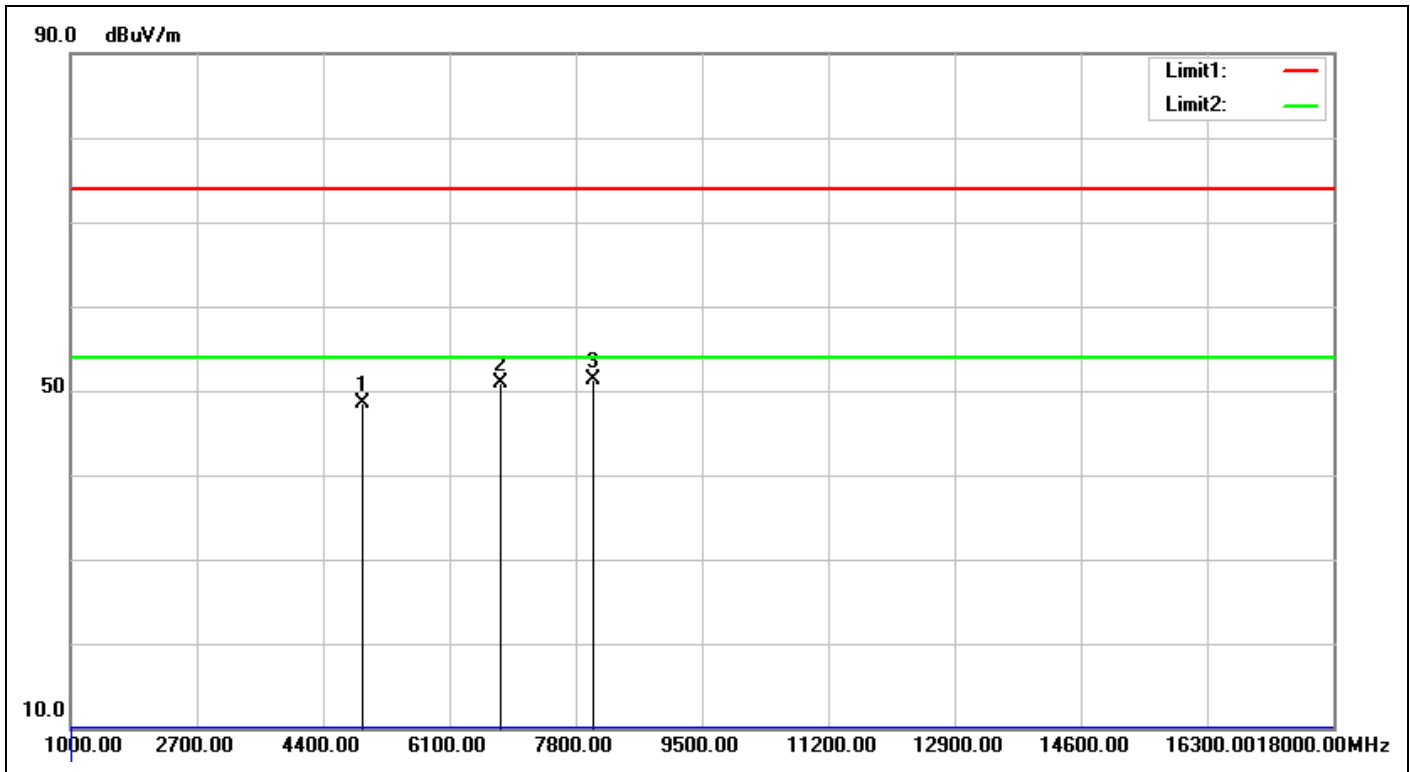
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:22:09
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	5318.000	-0.12	49.19	49.07	74.00	-24.93	peak	100	202	
2	6202.000	4.89	45.80	50.69	74.00	-23.31	peak	100	177	
3	7766.000	6.59	44.81	51.40	74.00	-22.60	peak	100	191	



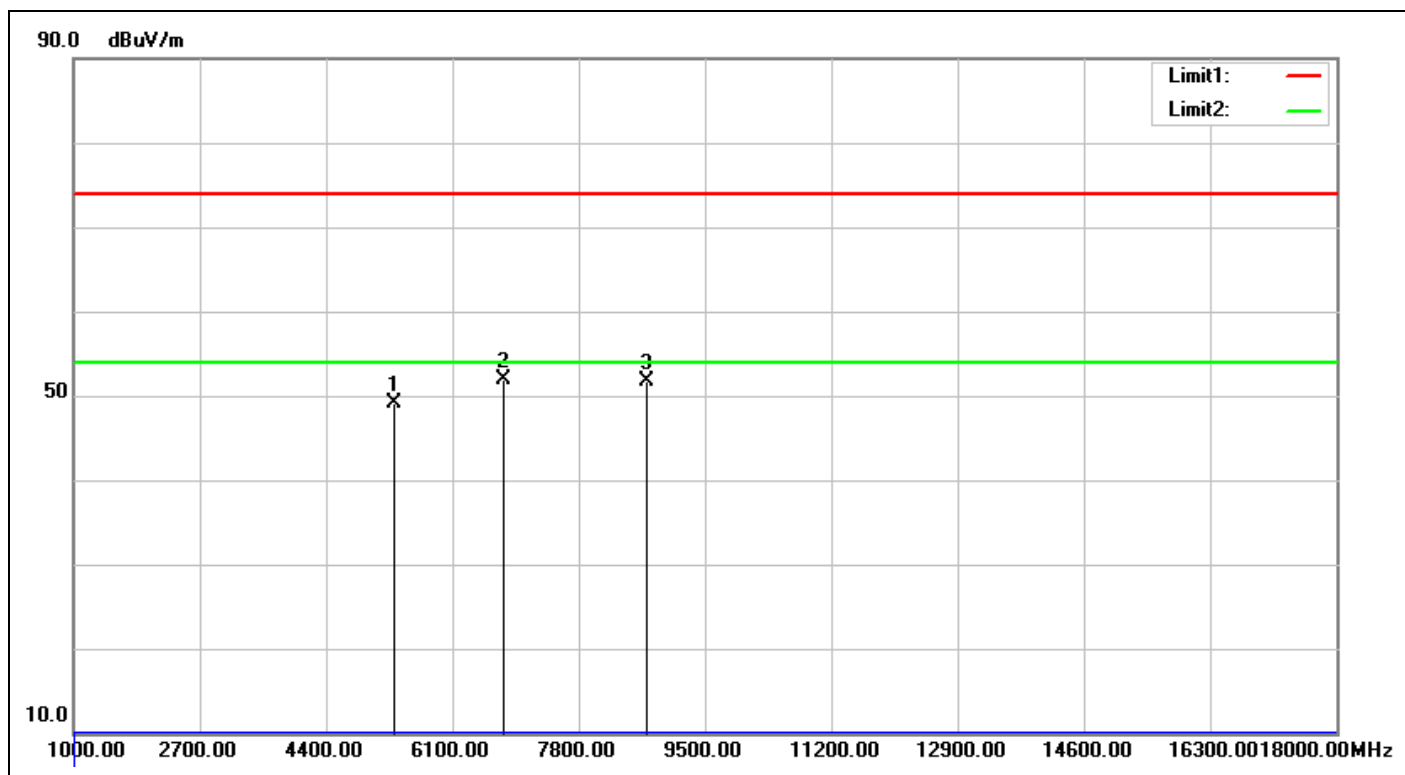
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:23:12
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	5284.000	-0.30	49.14	48.84	74.00	-25.16	peak	100	120	
2	7528.000	6.62	44.50	51.12	74.00	-22.88	peak	100	297	
3	7766.000	6.59	44.94	51.53	74.00	-22.47	peak	100	109	



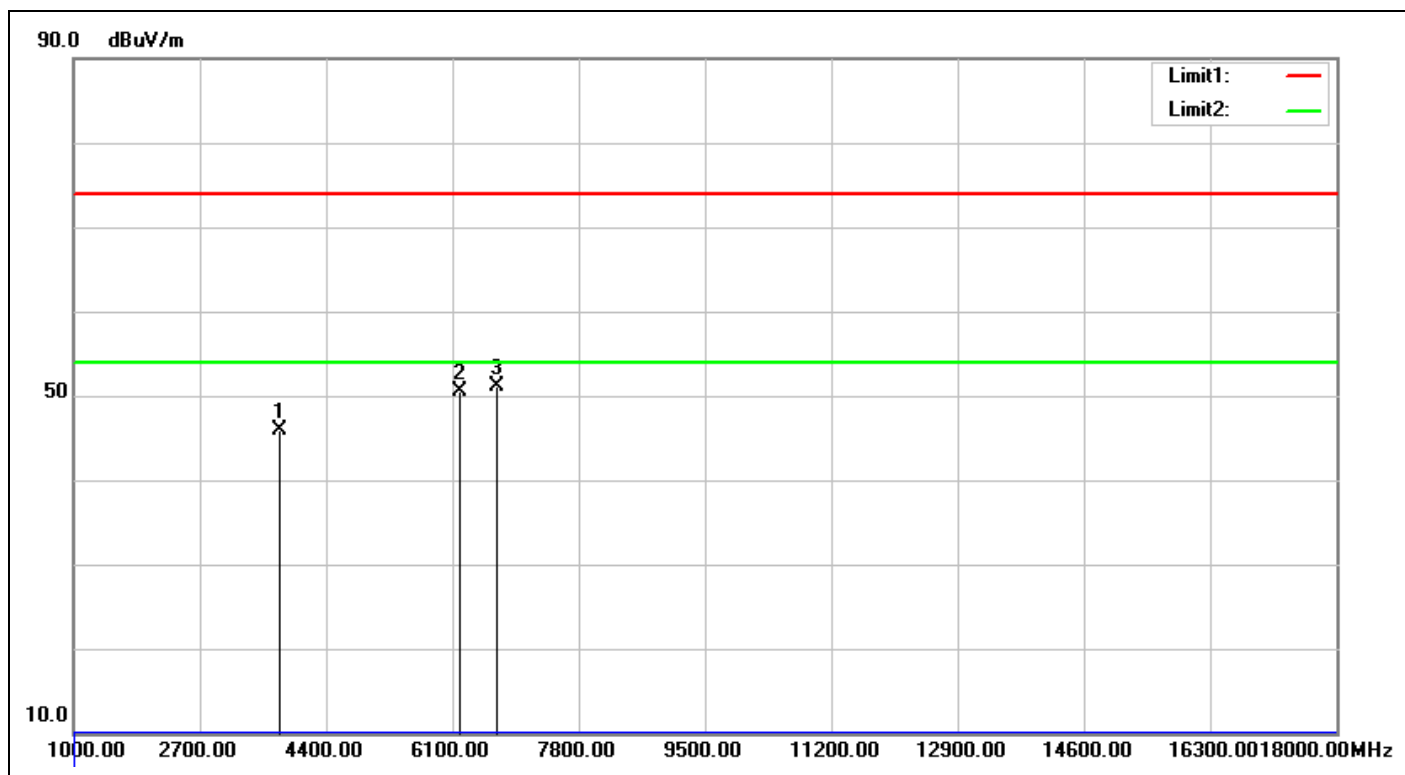
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:25:24
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	4927.000	-1.98	50.39	48.41	74.00	-25.59	peak	100	201	
2	6780.000	5.55	45.26	50.81	74.00	-23.19	peak	100	265	
3	8038.000	6.57	44.76	51.33	74.00	-22.67	peak	100	140	



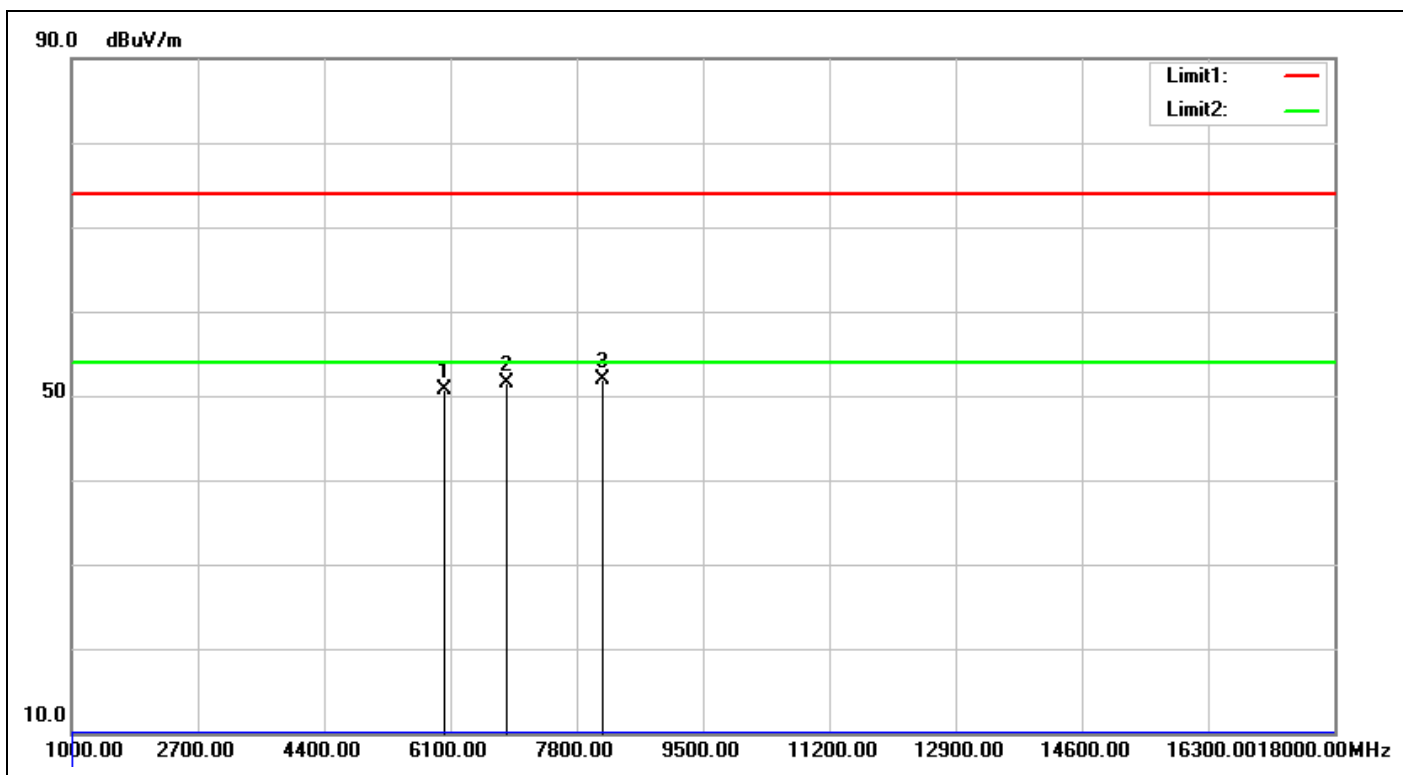
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:26:26
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	5318.000	-0.12	49.18	49.06	74.00	-24.94	peak	100	12	
2	6780.000	5.55	46.29	51.84	74.00	-22.16	peak	100	269	
3	8718.000	7.00	44.62	51.62	74.00	-22.38	peak	100	294	



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:28:13
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	3771.000	-5.31	51.20	45.89	74.00	-28.11	peak	100	216	
2	6202.000	4.89	45.66	50.55	74.00	-23.45	peak	100	16	
3	6695.000	5.70	45.40	51.10	74.00	-22.90	peak	100	257	



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:29:15
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	6015.000	4.19	46.45	50.64	74.00	-23.36	peak	100	225	
2	6865.000	5.40	46.01	51.41	74.00	-22.59	peak	100	155	
3	8140.000	6.61	45.35	51.96	74.00	-22.04	peak	100	222	

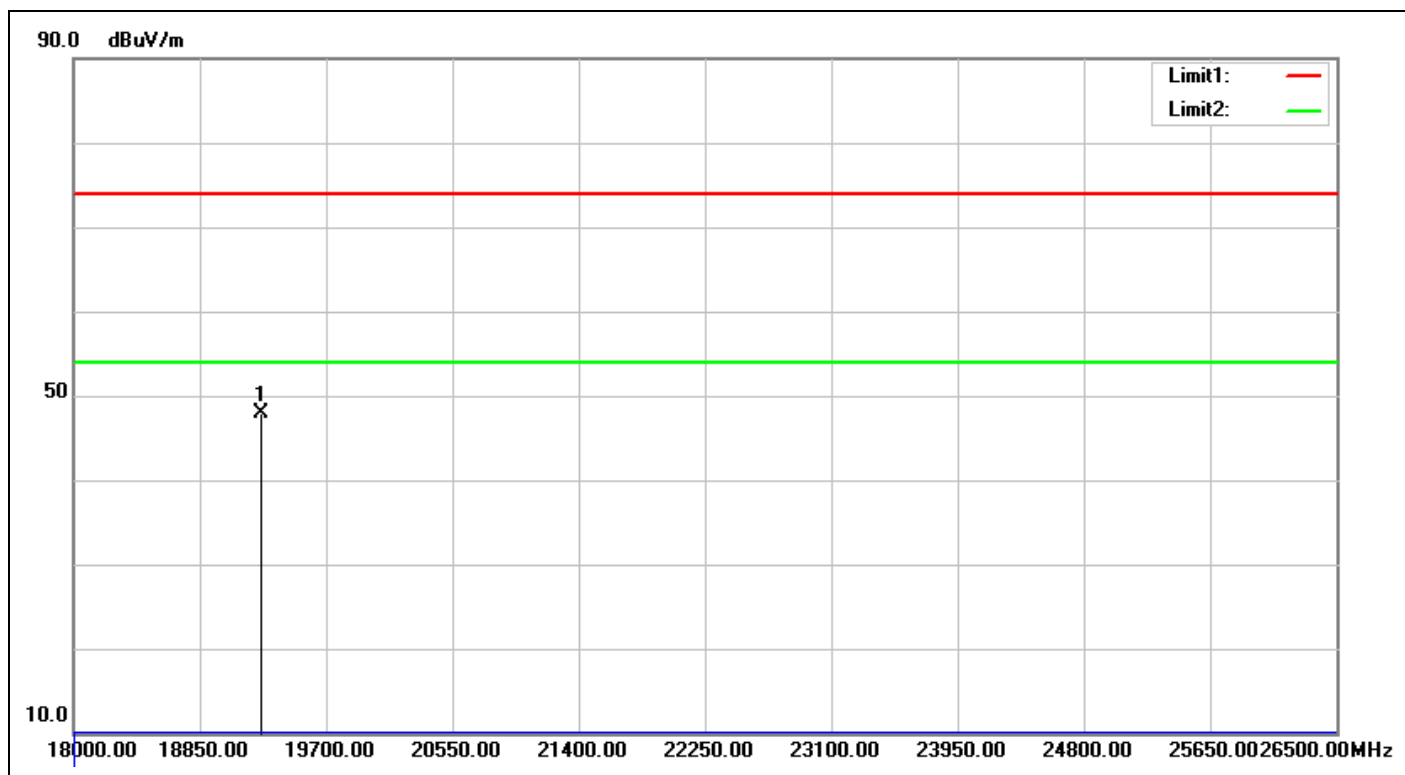
Spurious Emissions, RX Mode, 18-26G



TUV Taiwan

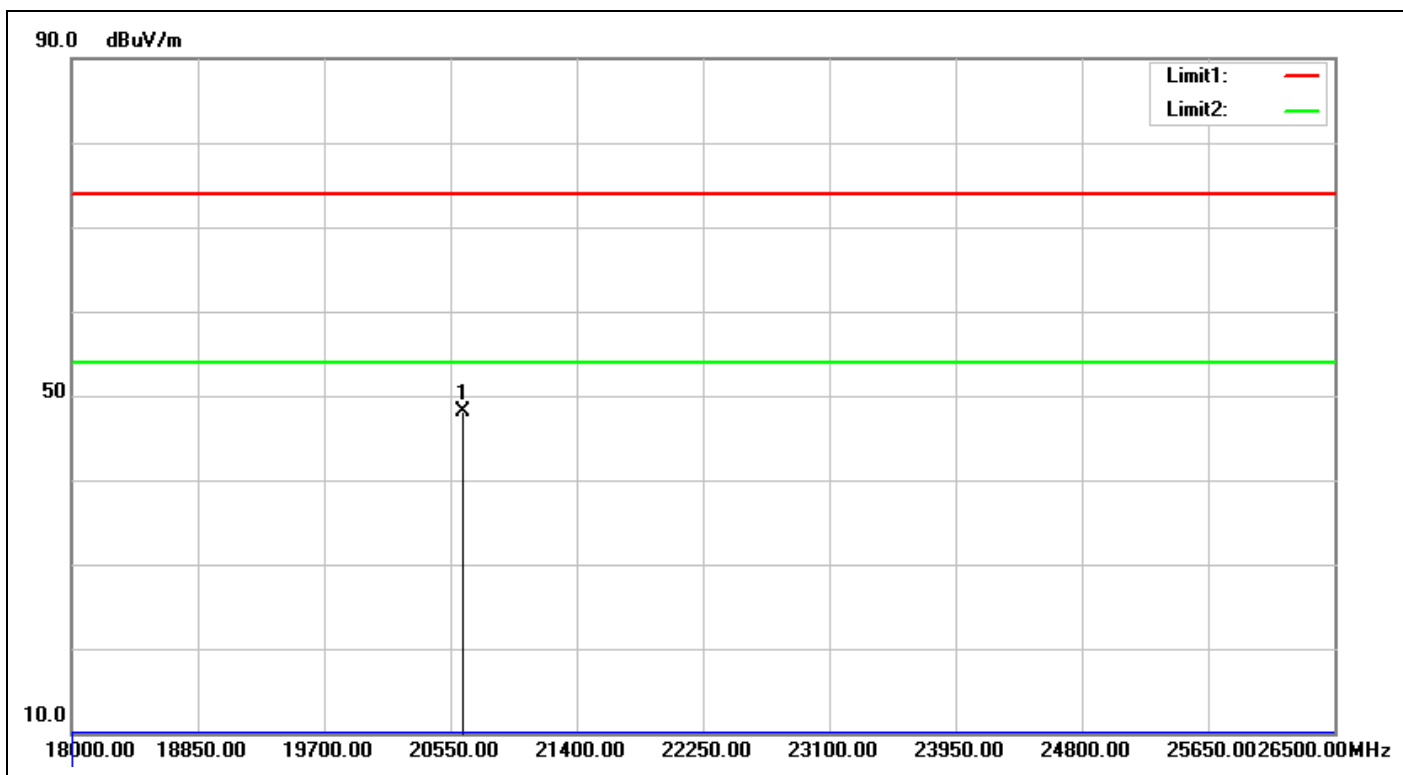
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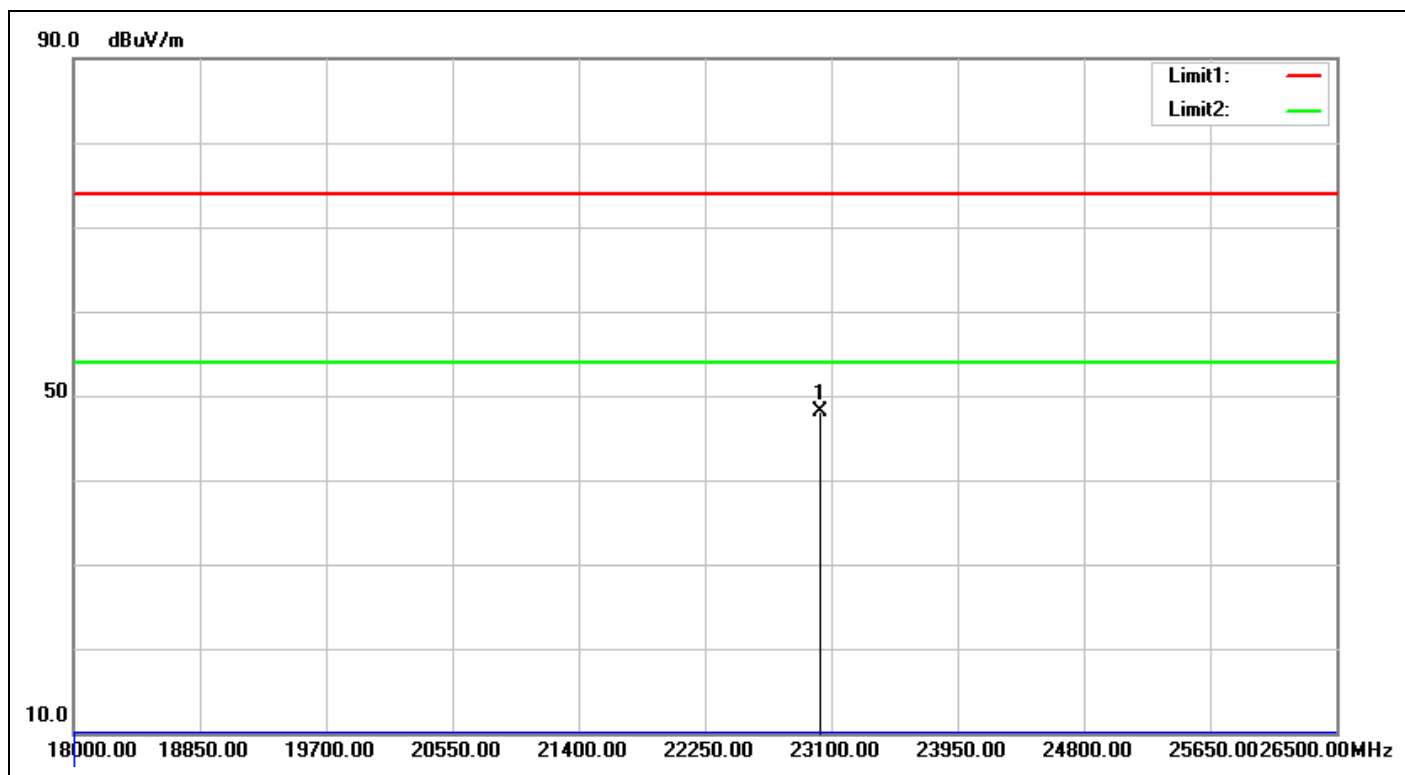
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:51:41
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	19258.000	29.50	18.46	47.96	74.00	-26.04	peak			



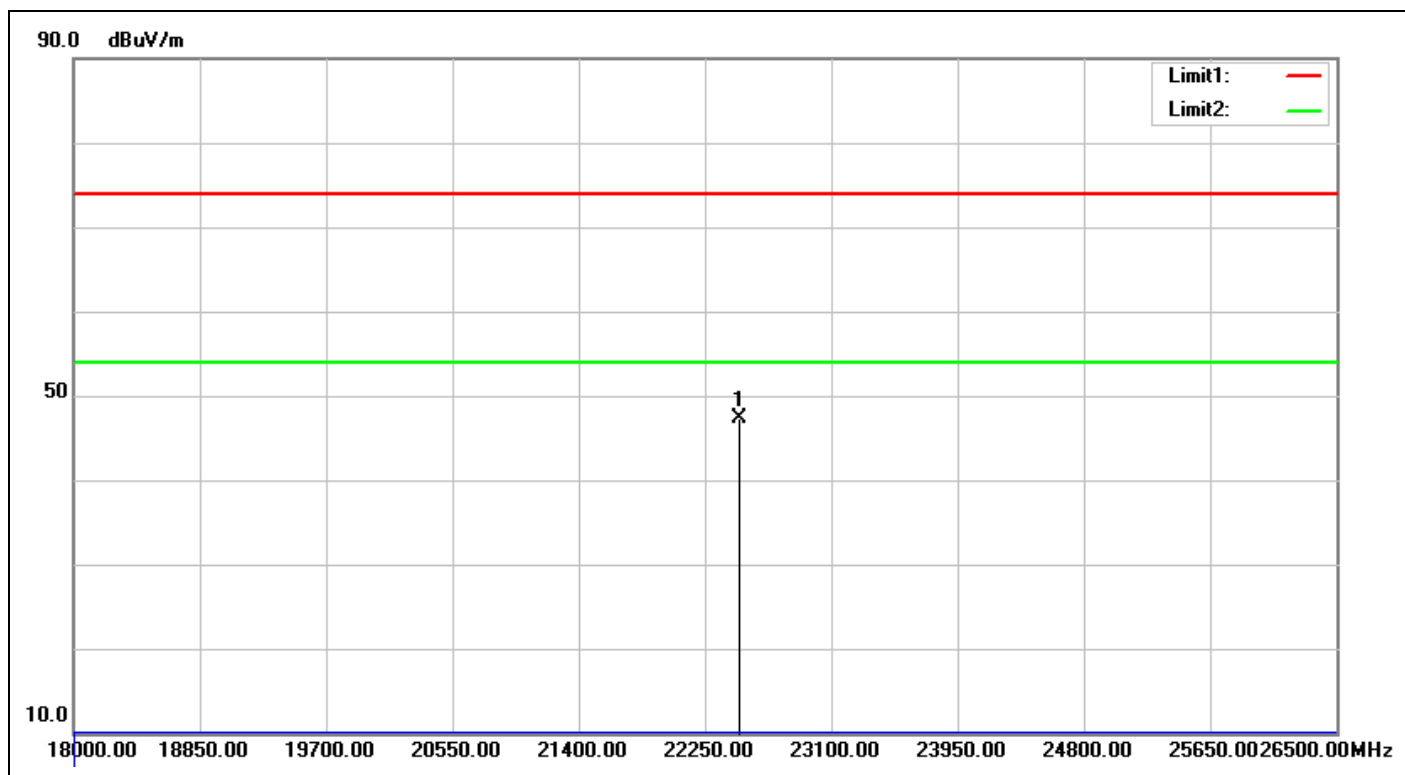
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:51:49
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	20635.000	29.89	18.28	48.17	74.00	-25.83	peak			



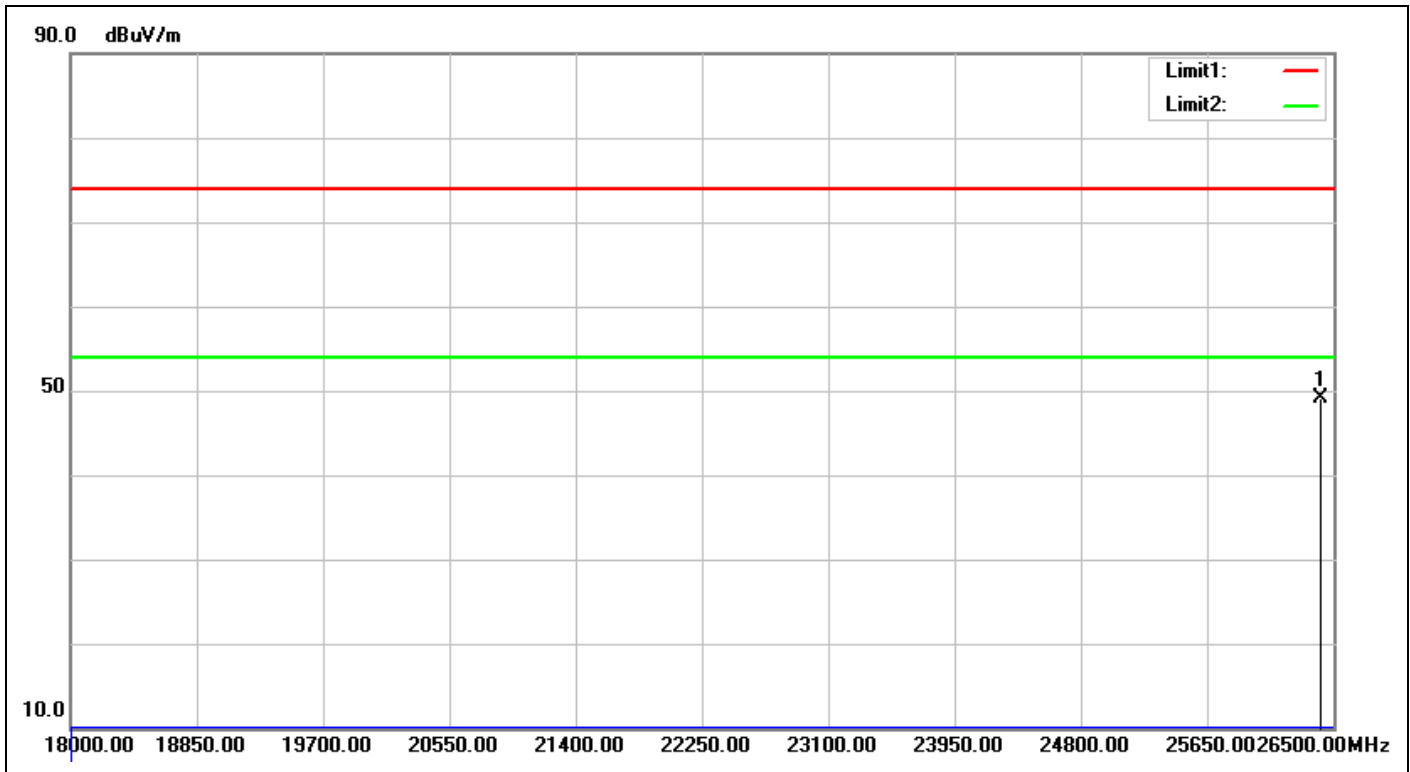
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:52:17
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	23023.500	30.46	17.70	48.16	74.00	-25.84	peak			



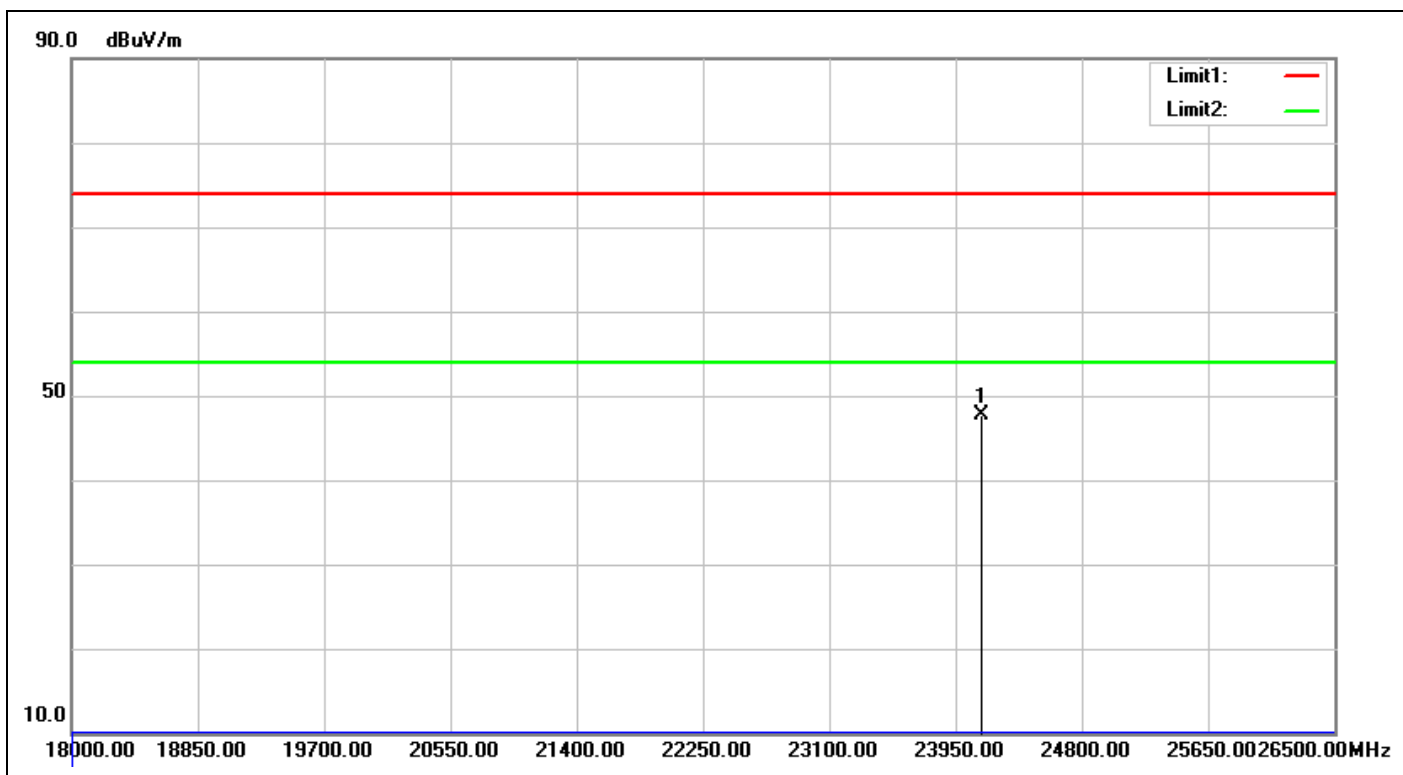
Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:52:23
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	22479.500	29.71	17.60	47.31	74.00	-26.69	peak			



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 22:52:34
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	26415.000	31.63	17.53	49.16	74.00	-24.84	peak			



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 22:52:42
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	24128.500	29.86	17.75	47.61	74.00	-26.39	peak			

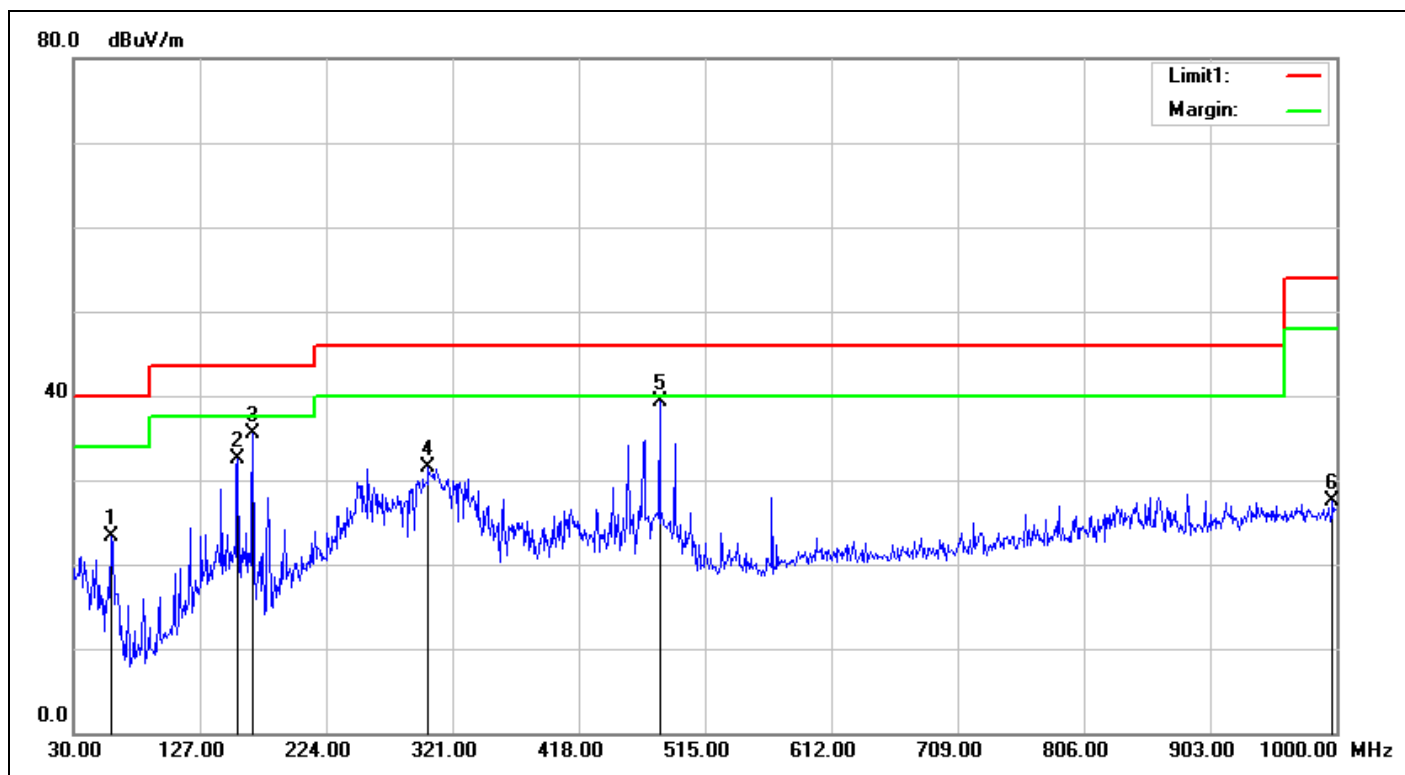
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

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

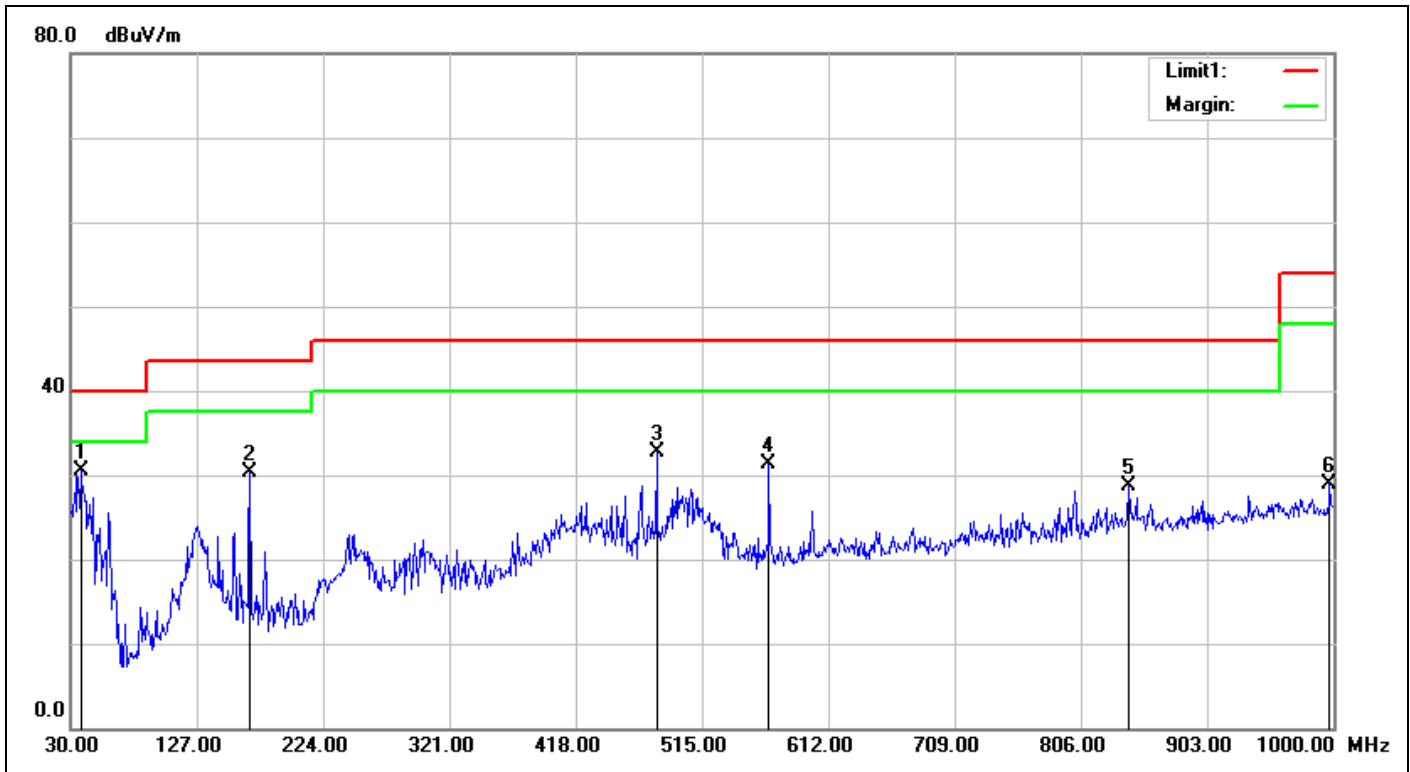
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/3/22 19:42:52
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%)	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	59.1000	-19.49	42.85	23.36	40.00	-16.64	QP	100	115	
2	156.0999	-13.63	46.19	32.56	43.50	-10.94	QP	100	272	
3	167.7400	-14.60	50.11	35.51	43.50	-7.99	QP	100	264	
4	302.5699	-10.42	41.87	31.45	46.00	-14.55	QP	100	251	
5	480.0799	-7.59	46.87	39.28	46.00	-6.72	QP	100	30	
6	997.0900	-0.03	27.50	27.47	54.00	-26.53	QP	100	65	

Spurious Emissions, RX Mode, 30M-1G

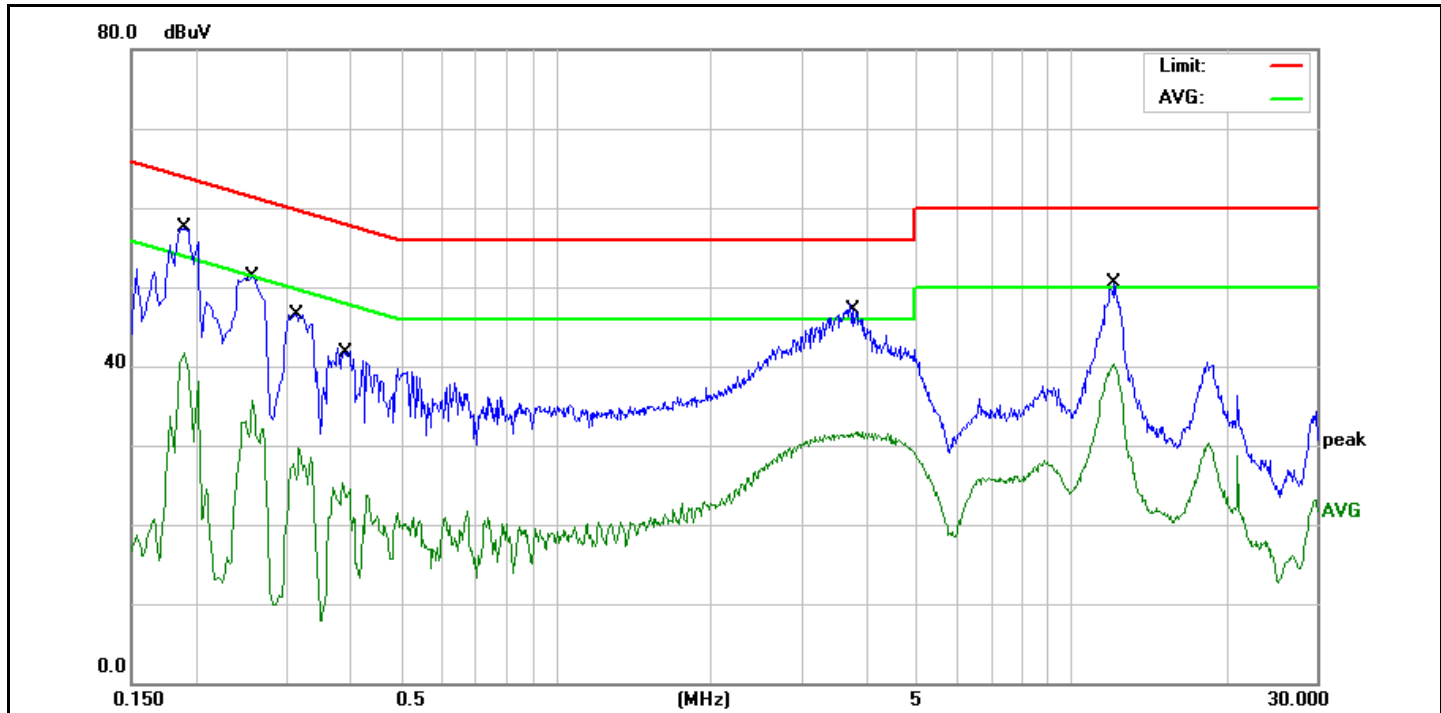


Service No.:	114047316-NCC	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/3/22 19:43:55
Applicant:	Microchip	Test Rating:	DC 3.3 V
Product:	Bluetooth Module	Temp.(°C)/Hum.(%):	19.5(°C)/63%
Model No.:	FCC:BM62SPKabcC2	Test Engineer:	George Yang
	NCC:BM62SPKS1MC2		
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	37.7599	-10.20	40.67	30.47	40.00	-9.53	QP	100	141	
2	167.7400	-14.60	44.83	30.23	43.50	-13.27	QP	100	173	
3	480.0800	-7.59	40.22	32.63	46.00	-13.37	QP	100	11	
4	566.4099	-6.66	38.00	31.34	46.00	-14.66	QP	100	149	
5	842.8600	-2.60	31.28	28.68	46.00	-17.32	QP	100	1	
6	997.0900	-0.03	29.02	28.99	54.00	-25.01	QP	100	259	

Spurious Emissions, RX Mode, 30M-1G

Mains Spurious Emissions



Service No.: 114047316(FCC:BM62SPKabcC2)

Test Standard: FCC Class B Conduction(QP)

Test item: Conducted Emission

Phase: L1

Applicant: Microchip

Temp.(°C)/Hum.(%): 20.6(°C) / 52 %

Product: Class II Module (Shielding)

Power Rating: AC 120V/60Hz

Model No.: FCC:BM62SPKabcC2

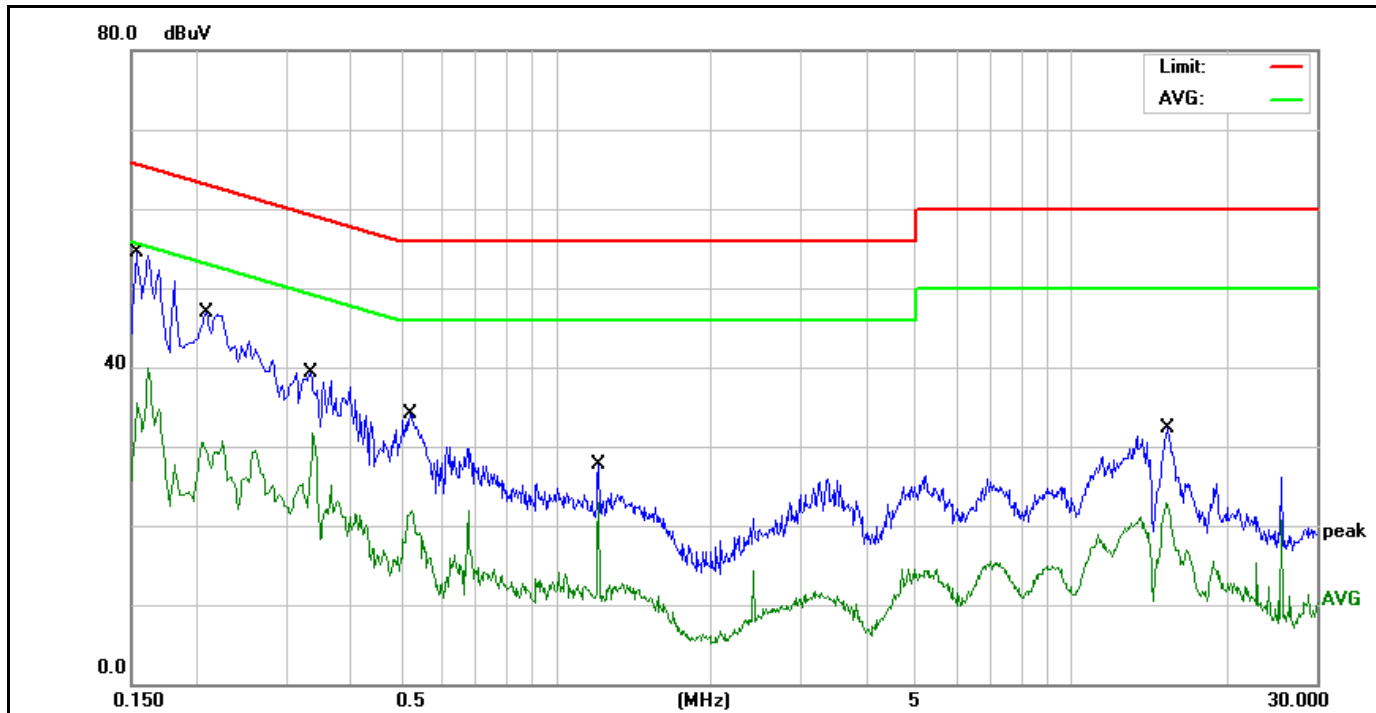
NCC:BM62SPKS1MC2

Test Engineer: Kai Wang

Test Mode: (b) Charge mode

Remark:Remark:

No.	Frequency (MHz)	Factor ()	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1620	9.65	40.03	49.68	65.36	-15.68	QP	P	
2	0.1620	9.65	26.22	35.87	55.36	-19.49	AVG	P	
3	0.2180	9.63	33.75	43.38	62.89	-19.51	QP	P	
4	0.2180	9.63	19.72	29.35	52.89	-23.54	AVG	P	
5	0.3379	9.63	27.04	36.67	59.25	-22.58	QP	P	
6	0.3379	9.63	21.63	31.26	49.25	-17.99	AVG	P	
7	0.5299	9.63	22.03	31.66	56.00	-24.34	QP	P	
8	0.5299	9.63	12.07	21.70	46.00	-24.30	AVG	P	
9	1.4420	9.63	19.10	28.73	56.00	-27.27	QP	P	
10	1.4420	9.63	10.30	19.93	46.00	-26.07	AVG	P	
11	15.5380	9.85	16.23	26.08	60.00	-33.92	QP	P	
12	15.5380	9.85	10.95	20.80	50.00	-29.20	AVG	P	



Service No.: 114047316(FCC:BM62SPKabcC2)

Test Standard: FCC Class B Conduction(QP)

Test item: Conducted Emission

Phase: N

Applicant: Microchip

Temp.(°C)/Hum.(%): 20.6(°C) / 52 %

Product: Class II Module (Shielding)

Power Rating: AC 120V/60Hz

Model No.: FCC:BM62SPKabcC2

NCC:BM62SPKS1MC2

Test Engineer: Kai Wang

Test Mode: (b) Charge mode

Remark:Remark:

No.	Frequency (MHz)	Factor ()	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1539	9.65	41.09	50.74	65.78	-15.04	QP	P	
2	0.1539	9.65	22.55	32.20	55.78	-23.58	AVG	P	
3	0.2100	9.63	34.53	44.16	63.20	-19.04	QP	P	
4	0.2100	9.63	19.67	29.30	53.20	-23.90	AVG	P	
5	0.3339	9.63	24.24	33.87	59.35	-25.48	QP	P	
6	0.3339	9.63	17.45	27.08	49.35	-22.27	AVG	P	
7	0.5220	9.63	20.98	30.61	56.00	-25.39	QP	P	
8	0.5220	9.63	11.98	21.61	46.00	-24.39	AVG	P	
9	1.2100	9.63	15.32	24.95	56.00	-31.05	QP	P	
10	1.2100	9.63	13.31	22.94	46.00	-23.06	AVG	P	
11	15.4540	9.84	16.54	26.38	60.00	-33.62	QP	P	
12	15.4540	9.84	11.24	21.08	50.00	-28.92	AVG	P	