

Test Report No.50055655 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50055655AppendixD)

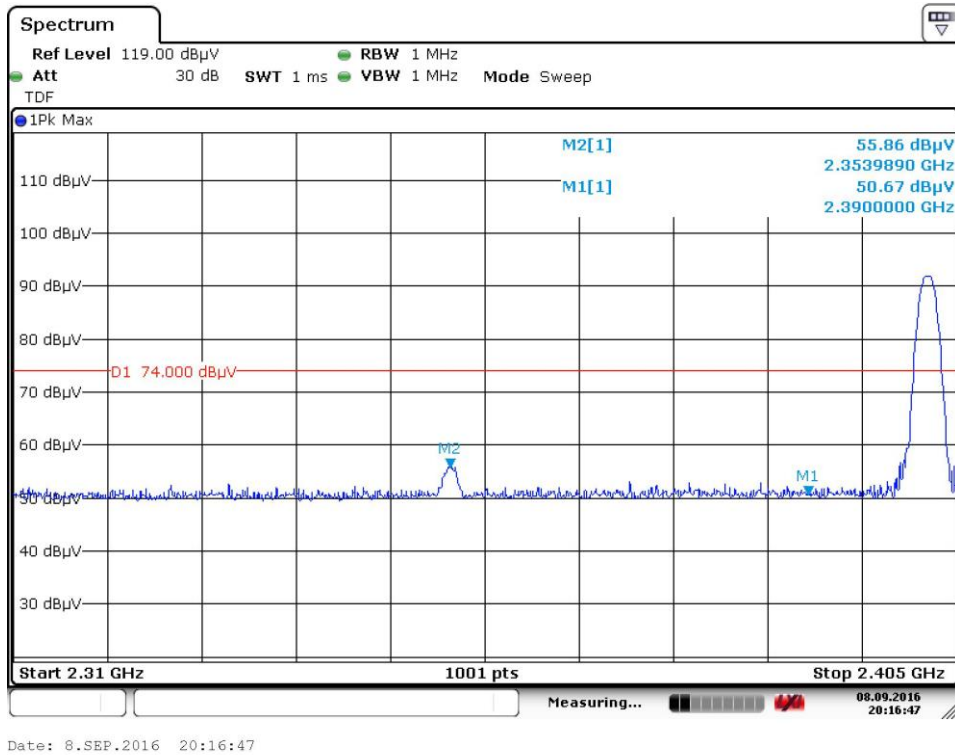
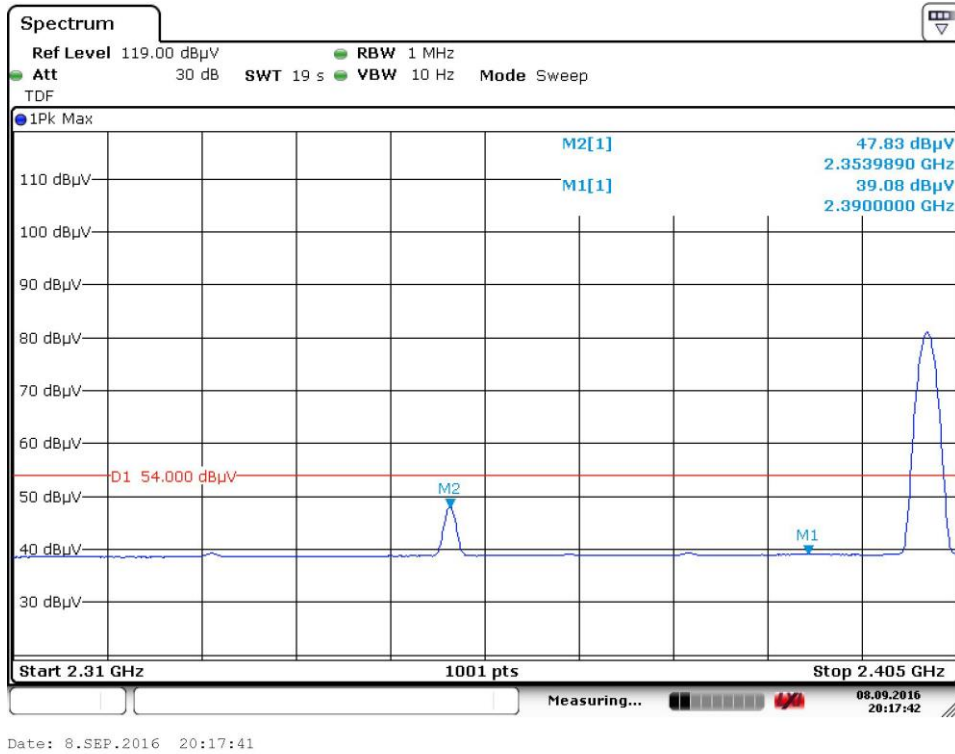
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Spurious Emissions, Band Edges, 2.35-2.5G

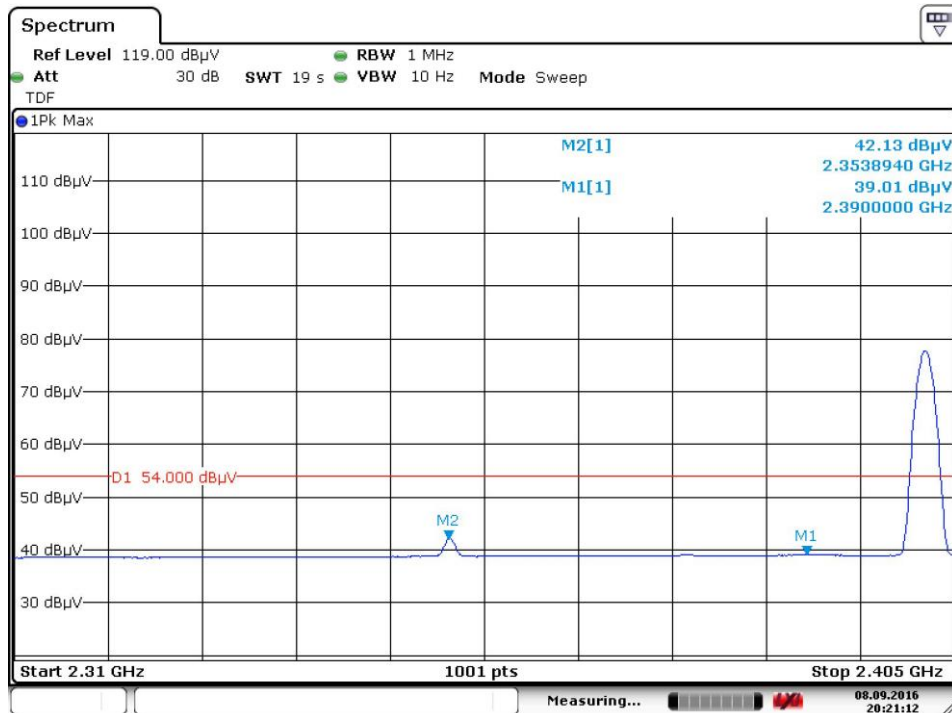
Radiated Bandedge (GFSK)

Low Channel (Hor)

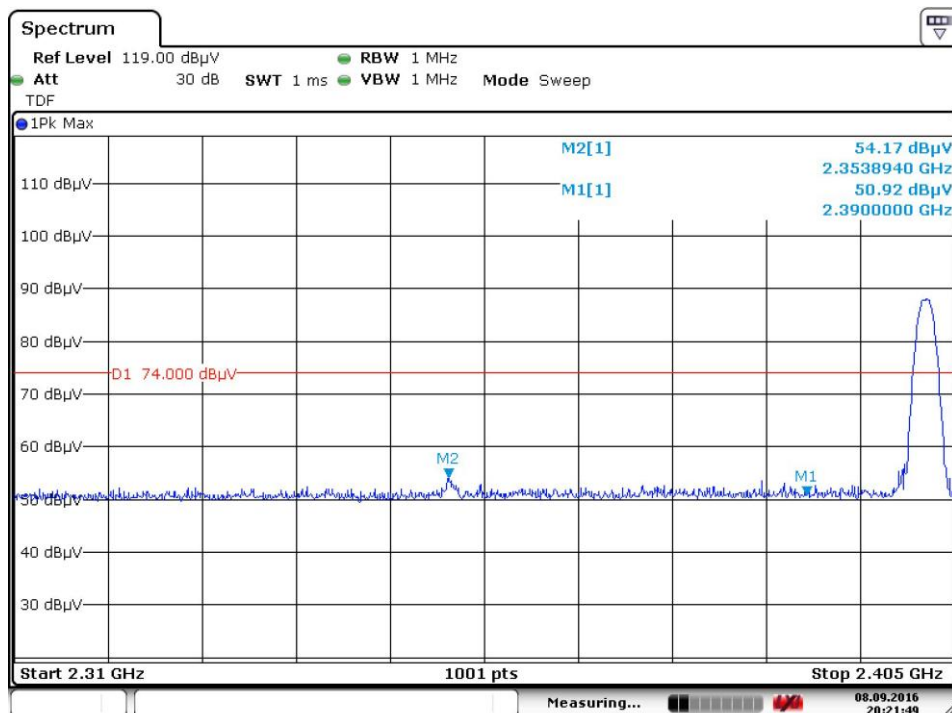


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 8.SEP.2016 20:21:12

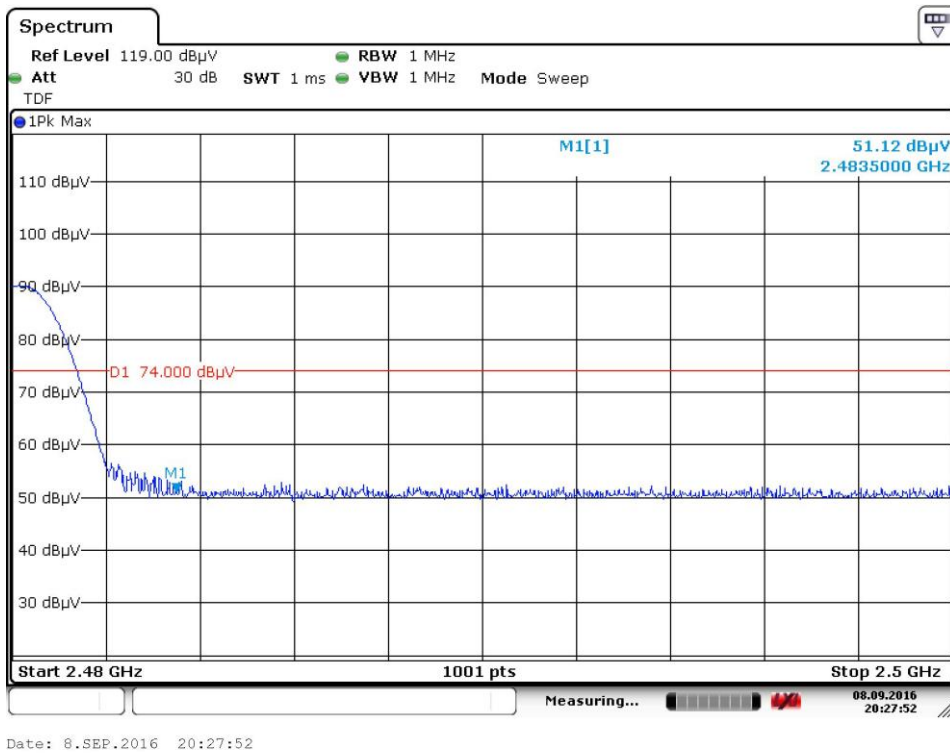
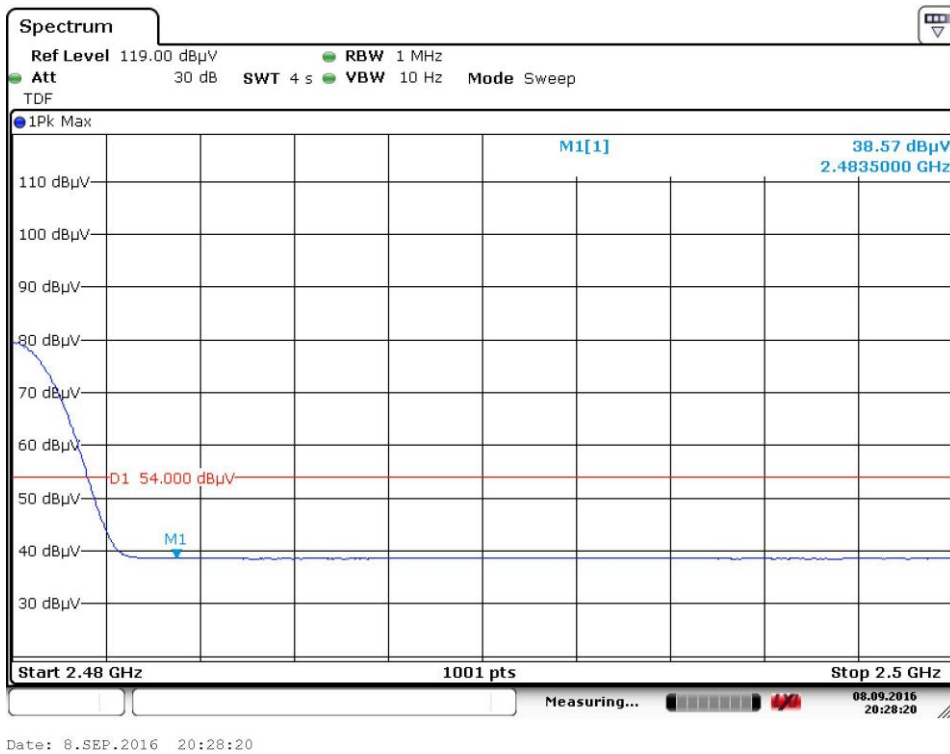


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Spurious Emissions, Band Edge, 2.35-2.5G

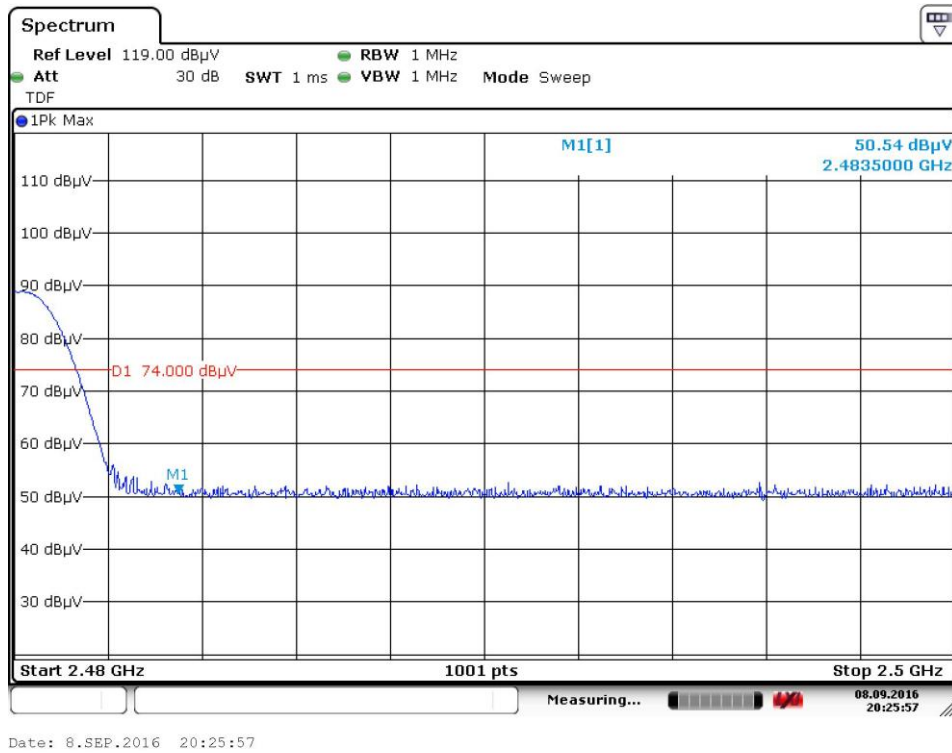
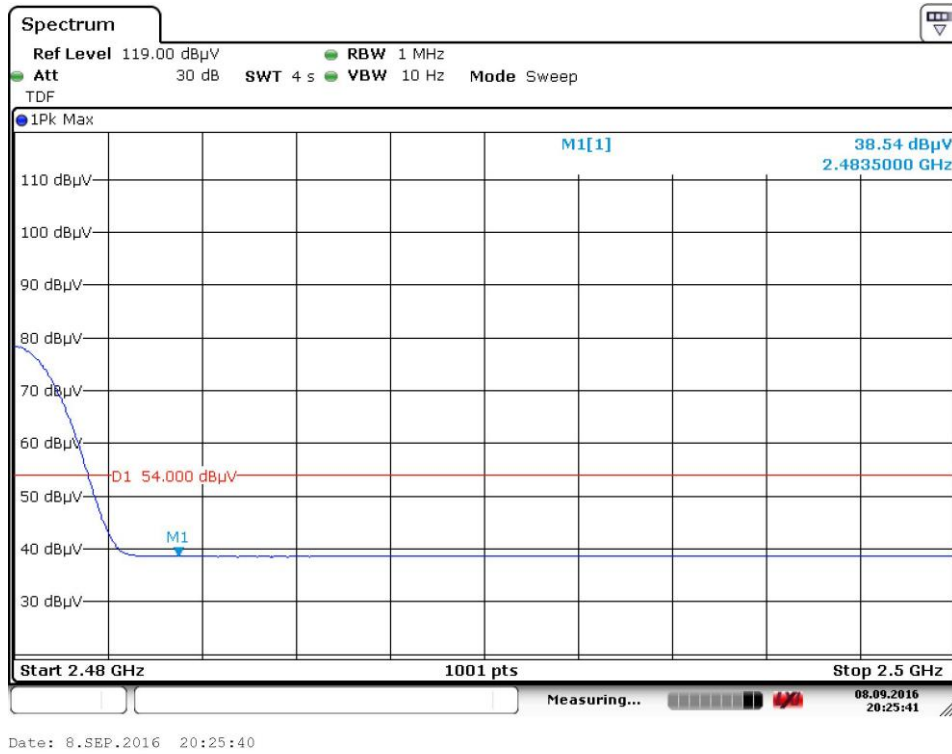
Radiated Bandedge (GFSK)

High Channel (Hor)



Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Spurious Emissions, Band Edge, 2.35-2.5G

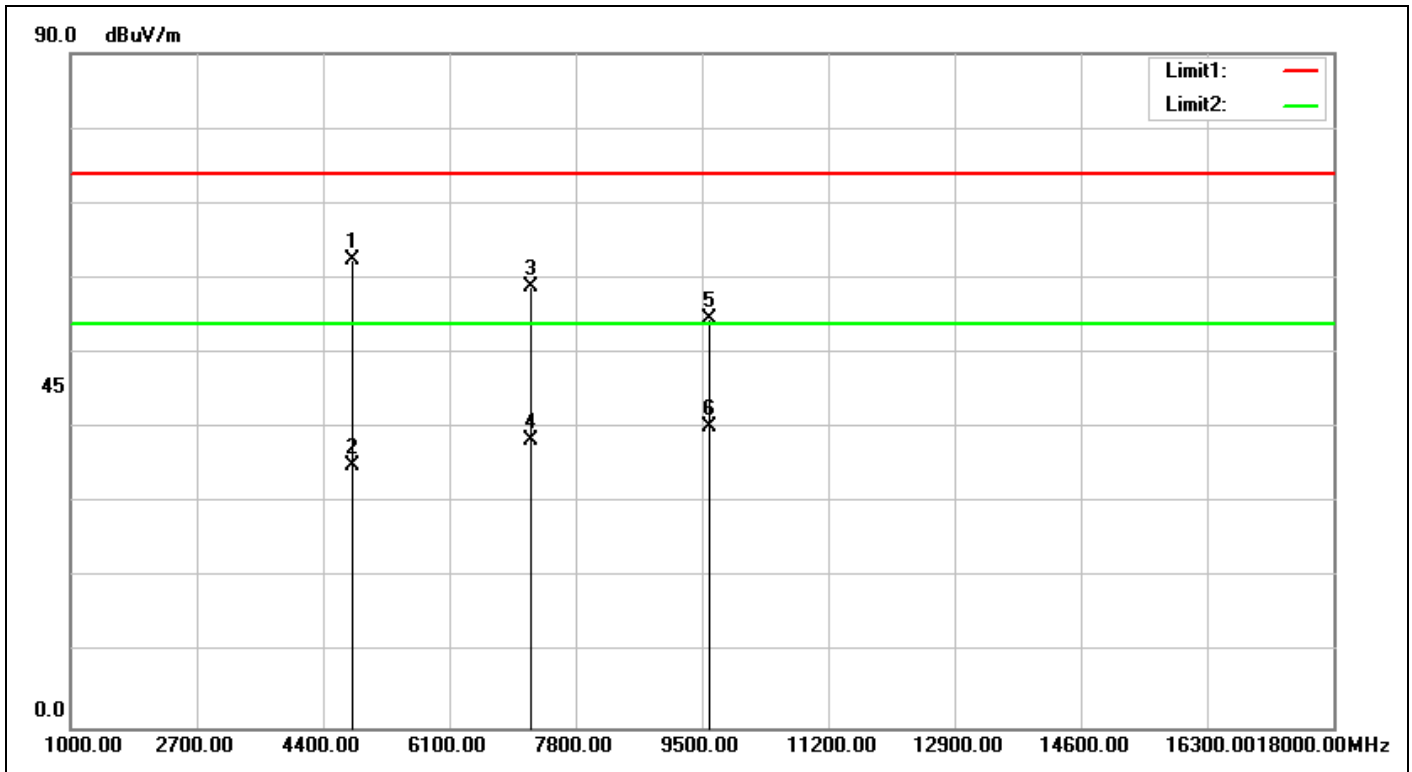
Spurious Emissions, TX Mode, 1-18G



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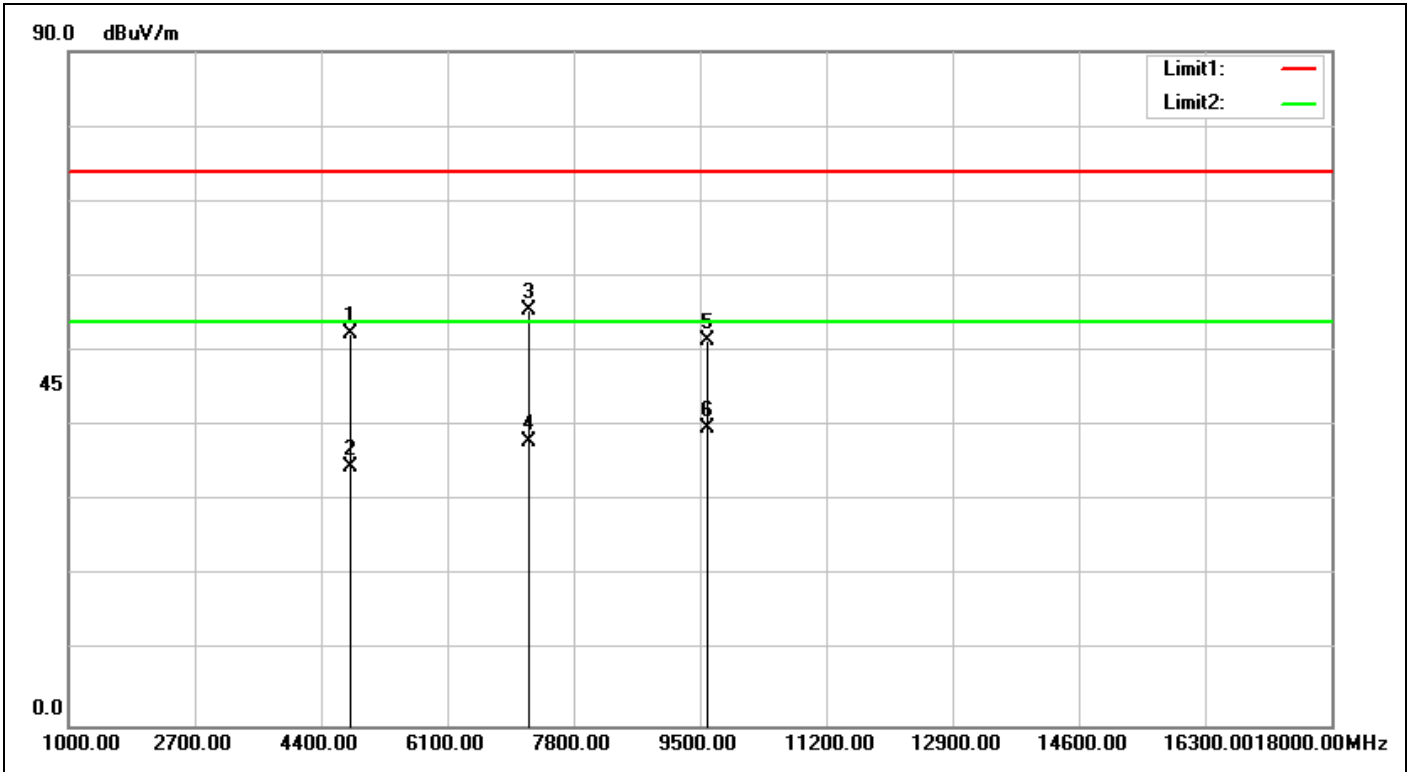
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



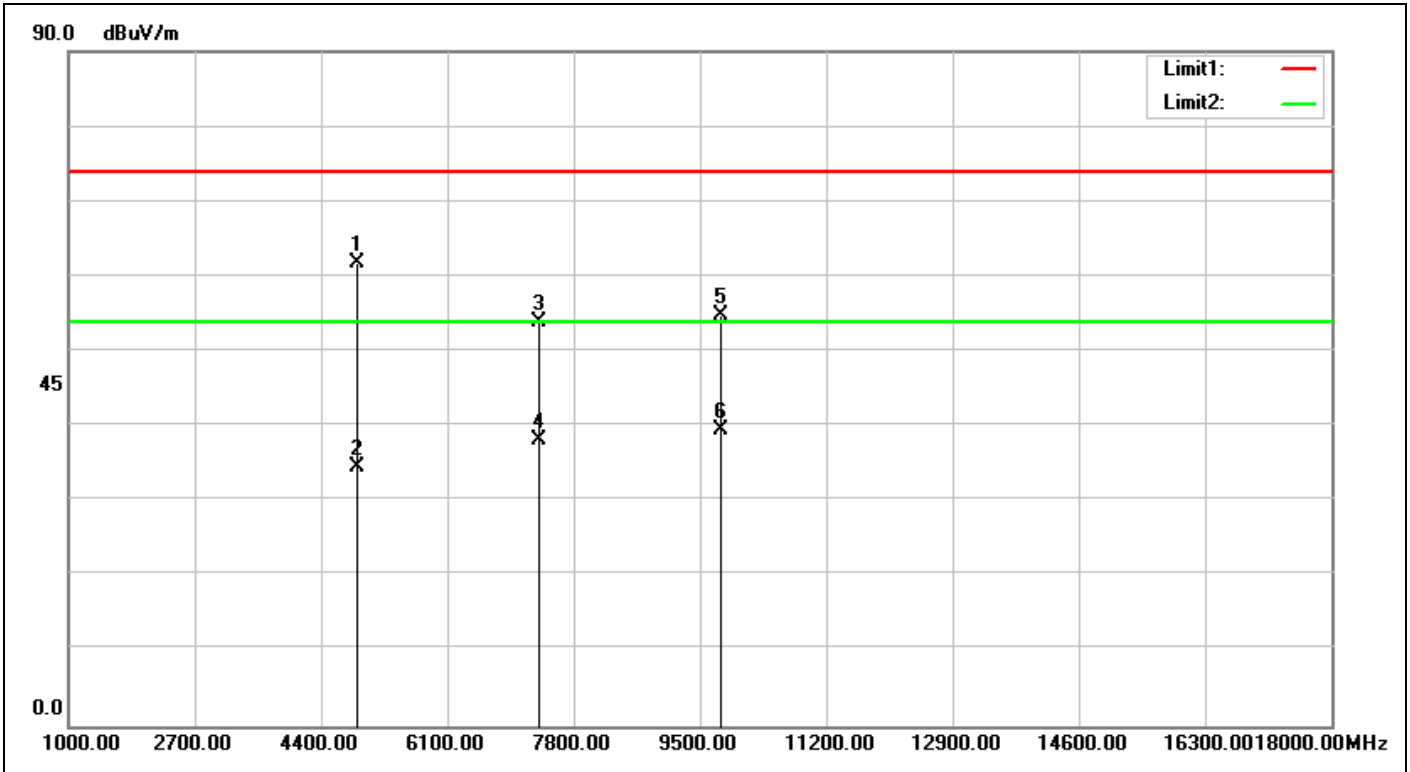
Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 20:19:06
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	1DH5-2402		
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	-2.64	65.14	62.50	74.00	-11.50	peak	100	8	
2	4804.000	-2.64	37.64	35.00	54.00	-19.00	AVG	100	8	
3	7206.000	5.57	53.37	58.94	74.00	-15.06	peak	100	360	
4	7206.000	5.57	32.72	38.29	54.00	-15.71	AVG	100	360	
5	9608.000	6.33	48.22	54.55	74.00	-19.45	peak	100	25	
6	9608.000	6.33	33.76	40.09	54.00	-13.91	AVG	100	25	



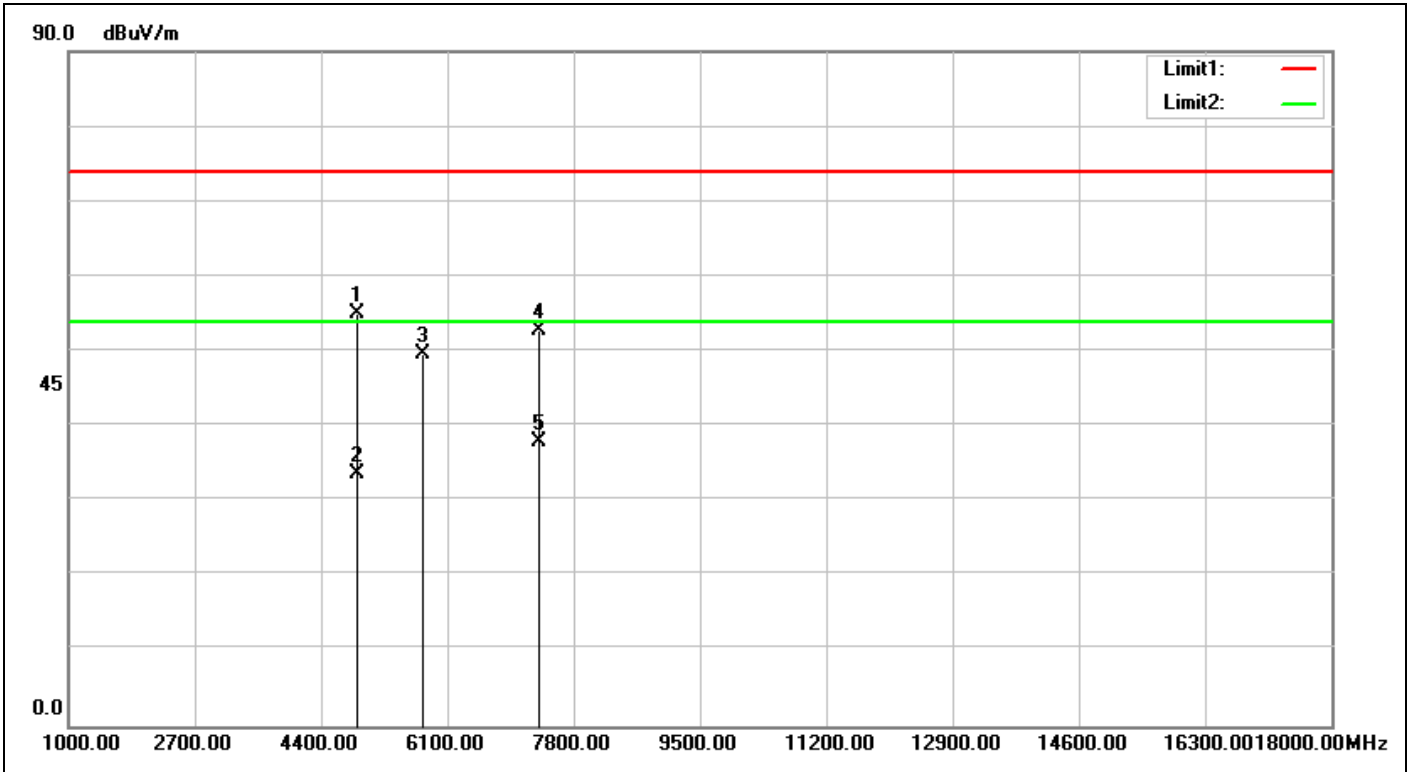
Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 20:20:08
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	1DH5-2402		
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	-2.64	54.84	52.20	74.00	-21.80	peak	100	294	
2	4804.000	-2.64	37.07	34.43	54.00	-19.57	AVG	100	294	
3	7206.000	5.57	49.87	55.44	74.00	-18.56	peak	100	313	
4	7206.000	5.57	32.44	38.01	54.00	-15.99	AVG	100	313	
5	9608.000	6.33	45.14	51.47	74.00	-22.53	peak	100	360	
6	9608.000	6.33	33.40	39.73	54.00	-14.27	AVG	100	360	



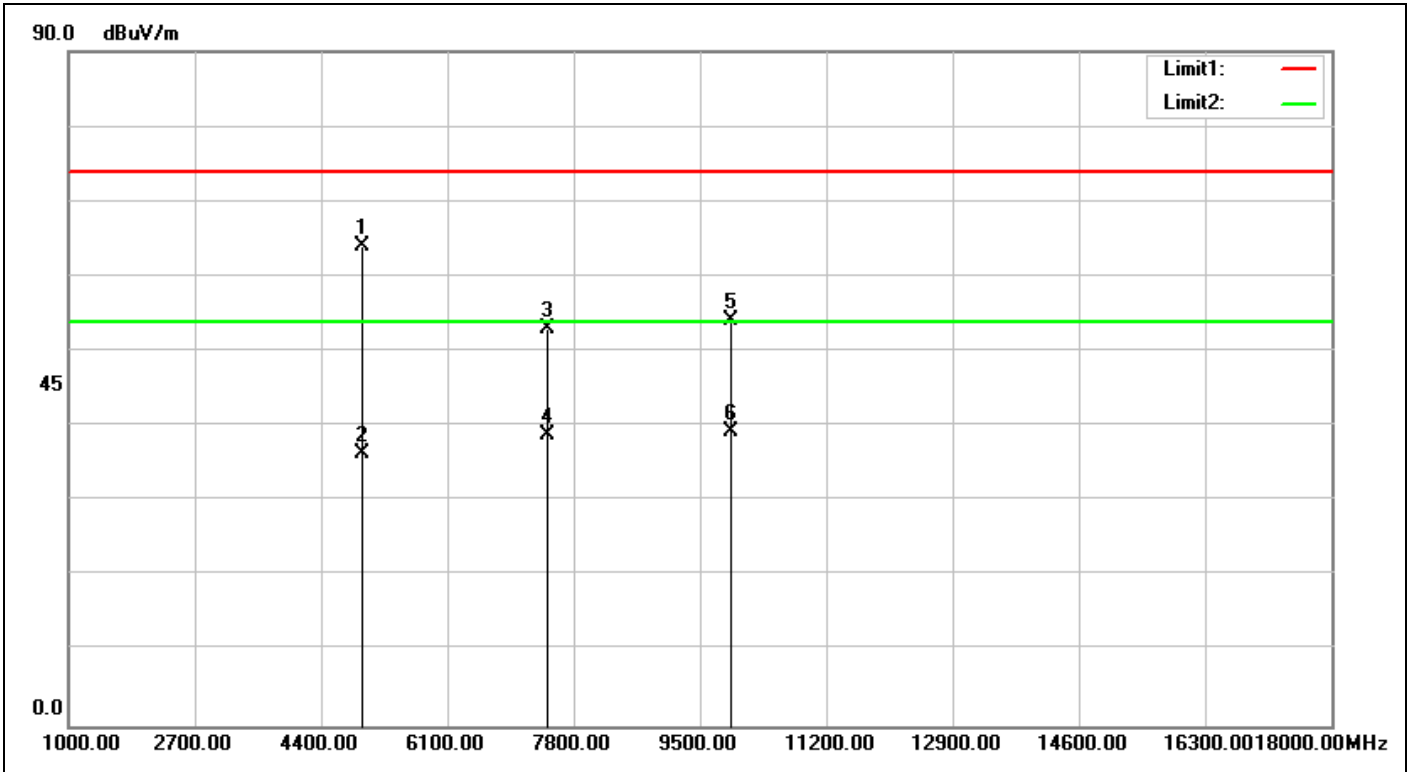
Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 20:30:12
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	1DH5-2441		
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	-2.47	64.25	61.78	74.00	-12.22	peak	100	97	
2	4882.000	-2.47	37.04	34.57	54.00	-19.43	AVG	100	97	
3	7323.000	5.91	47.98	53.89	74.00	-20.11	peak	100	77	
4	7323.000	5.91	32.31	38.22	54.00	-15.78	AVG	100	77	
5	9764.000	6.00	48.89	54.89	74.00	-19.11	peak	100	22	
6	9764.000	6.00	33.52	39.52	54.00	-14.48	AVG	100	22	



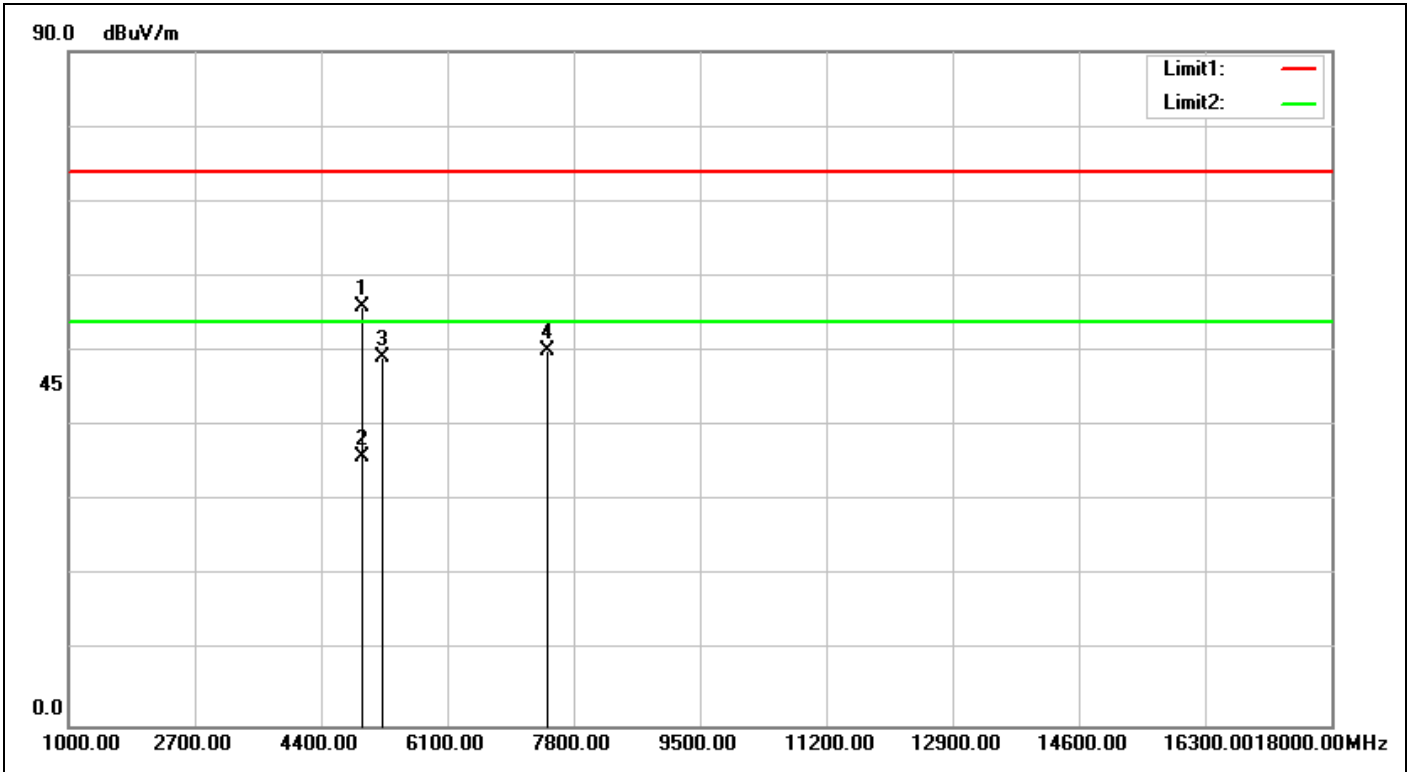
Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 20:31:15
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	1DH5-2441		
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	-2.47	57.52	55.05	74.00	-18.95	peak	100	341	
2	4882.000	-2.47	36.05	33.58	54.00	-20.42	AVG	100	341	
3	5777.000	2.38	47.29	49.67	74.00	-24.33	peak	100	288	
4	7323.000	5.91	46.92	52.83	74.00	-21.17	peak	100	300	
5	7323.000	5.91	31.98	37.89	54.00	-16.11	AVG	100	300	



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 20:40:35
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	1DH5-2480		
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	-2.30	66.25	63.95	74.00	-10.05	peak	100	2	
2	4960.000	-2.30	38.64	36.34	54.00	-17.66	AVG	100	2	
3	7440.000	6.24	46.68	52.92	74.00	-21.08	peak			
4	7440.000	6.24	32.47	38.71	54.00	-15.29	AVG	100	44	
5	9920.000	5.65	48.41	54.06	74.00	-19.94	peak			
6	9920.000	5.65	33.56	39.21	54.00	-14.79	AVG	100	82	



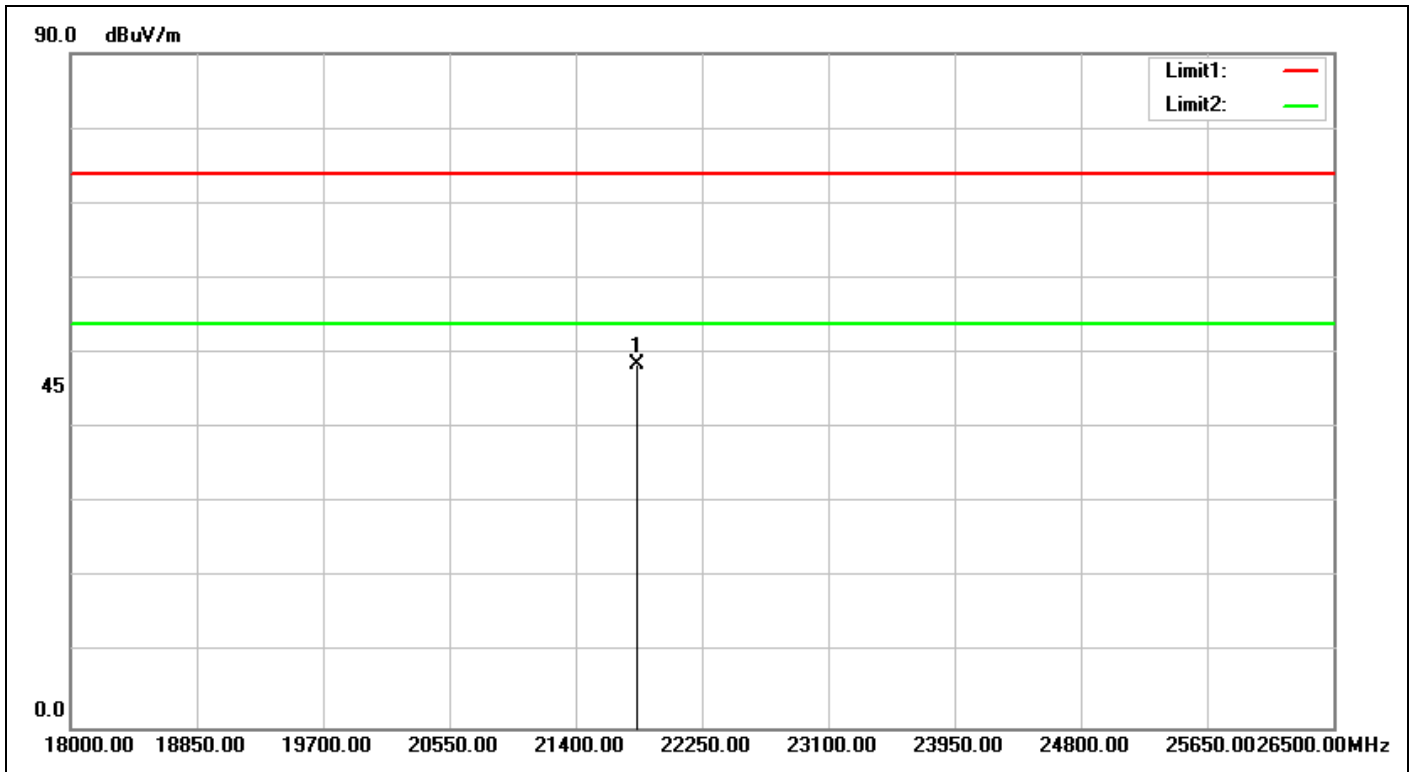
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 20:41:37
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	1DH5-2480		
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	-2.30	58.22	55.92	74.00	-18.08	peak	100	359	
2	4960.000	-2.30	38.09	35.79	54.00	-18.21	AVG	100	359	
3	5233.000	-0.97	50.15	49.18	74.00	-24.82	peak	100	213	
4	7440.000	6.24	43.91	50.15	74.00	-23.85	peak			

Spurious Emissions, TX Mode, 18-26G

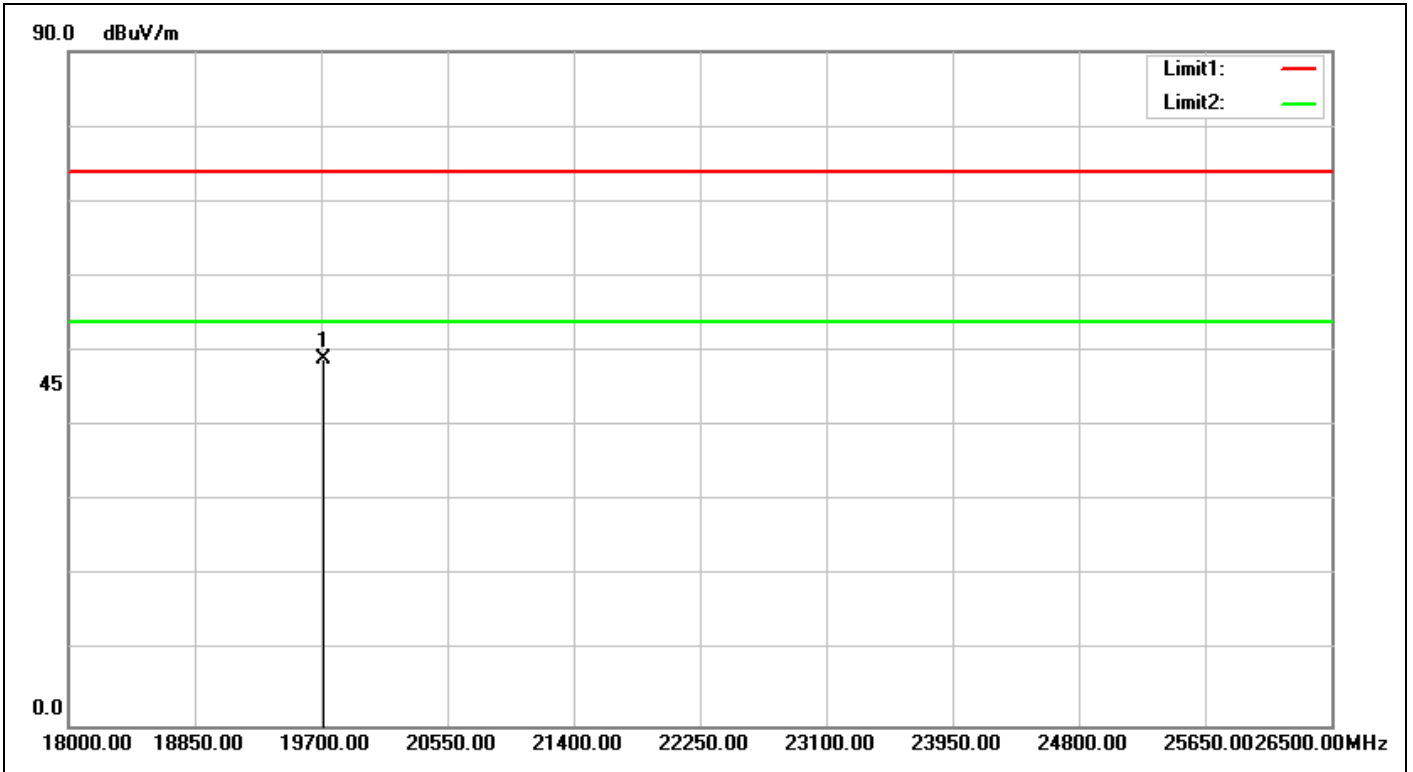


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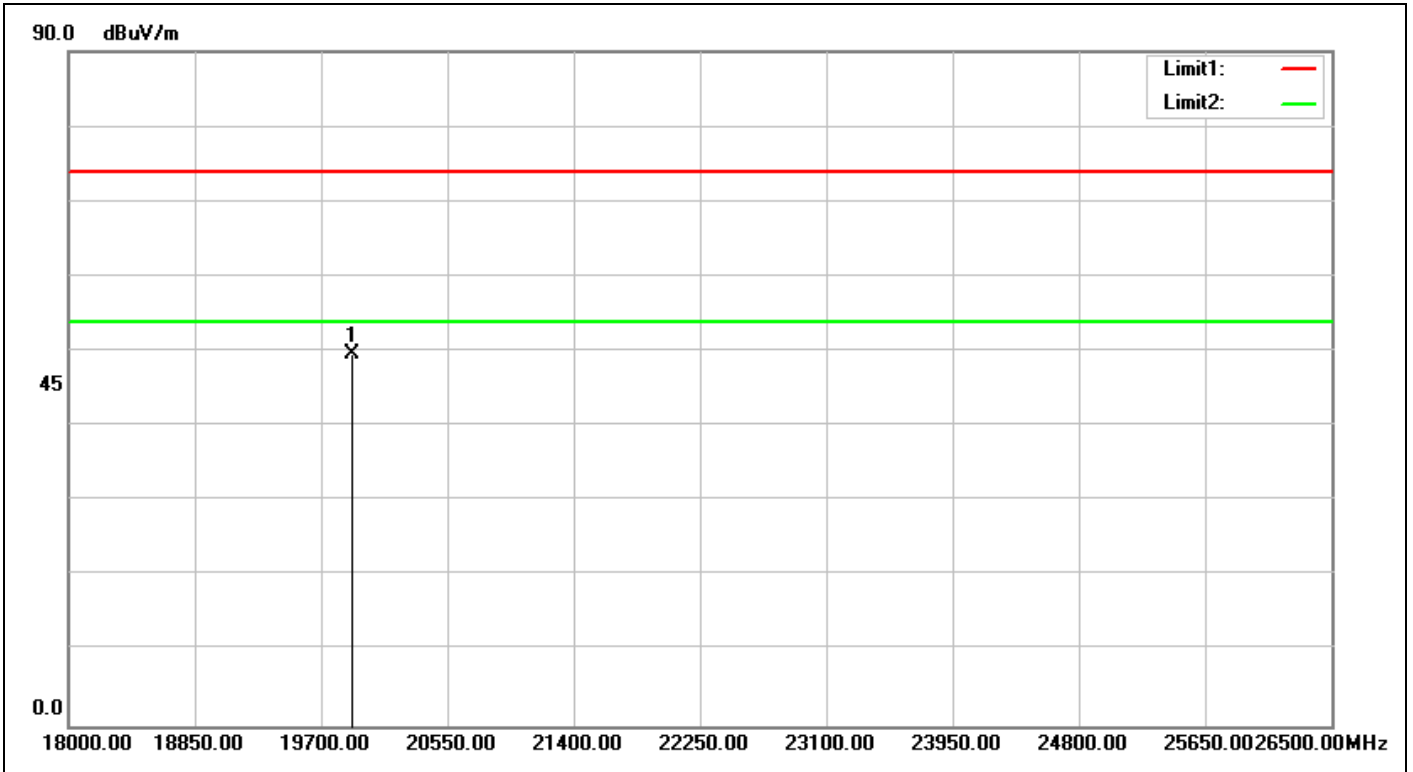
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 21:19:39
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21816.500	29.73	18.83	48.56	74.00	-25.44	peak		0	



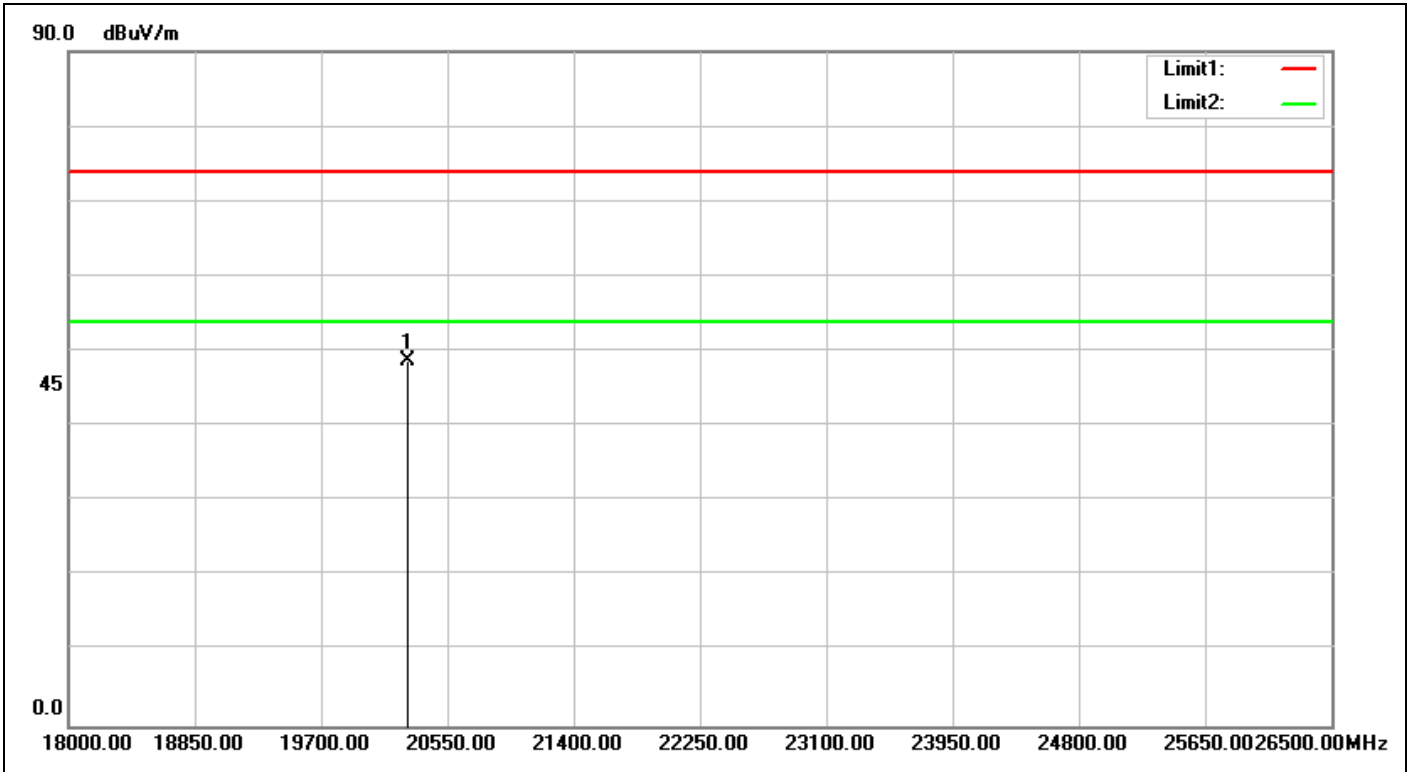
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 21:20:42
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2402		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19717.000	29.67	19.17	48.84	74.00	-25.16	peak			



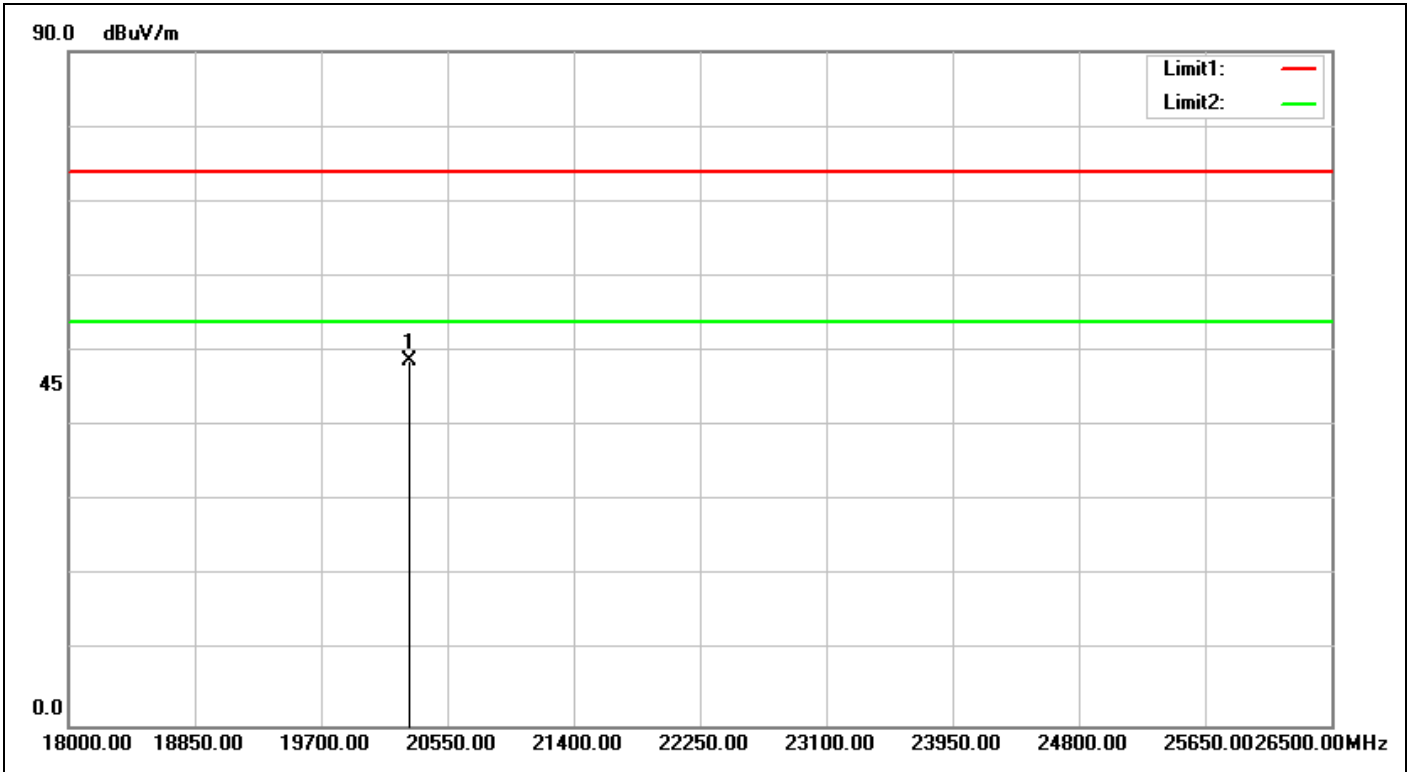
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 21:22:07
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19912.500	29.74	19.92	49.66	74.00	-24.34	peak			



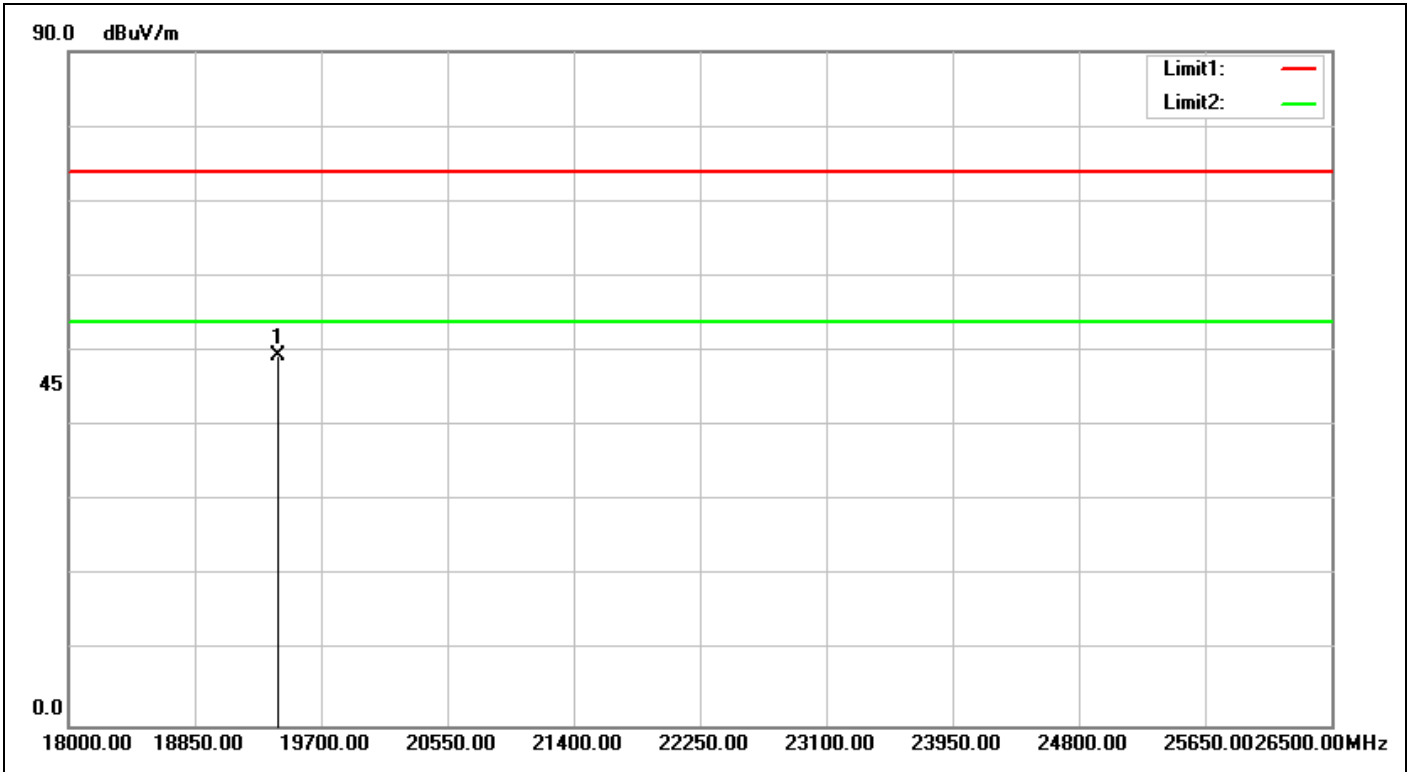
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Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 21:23:10
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20286.500	29.82	18.96	48.78	74.00	-25.22	peak			



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 21:24:33
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2480		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20295.000	29.82	18.95	48.77	74.00	-25.23	peak	100	180	



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 21:25:36
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2480		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19411.000	29.55	19.87	49.42	74.00	-24.58	peak	100	213	

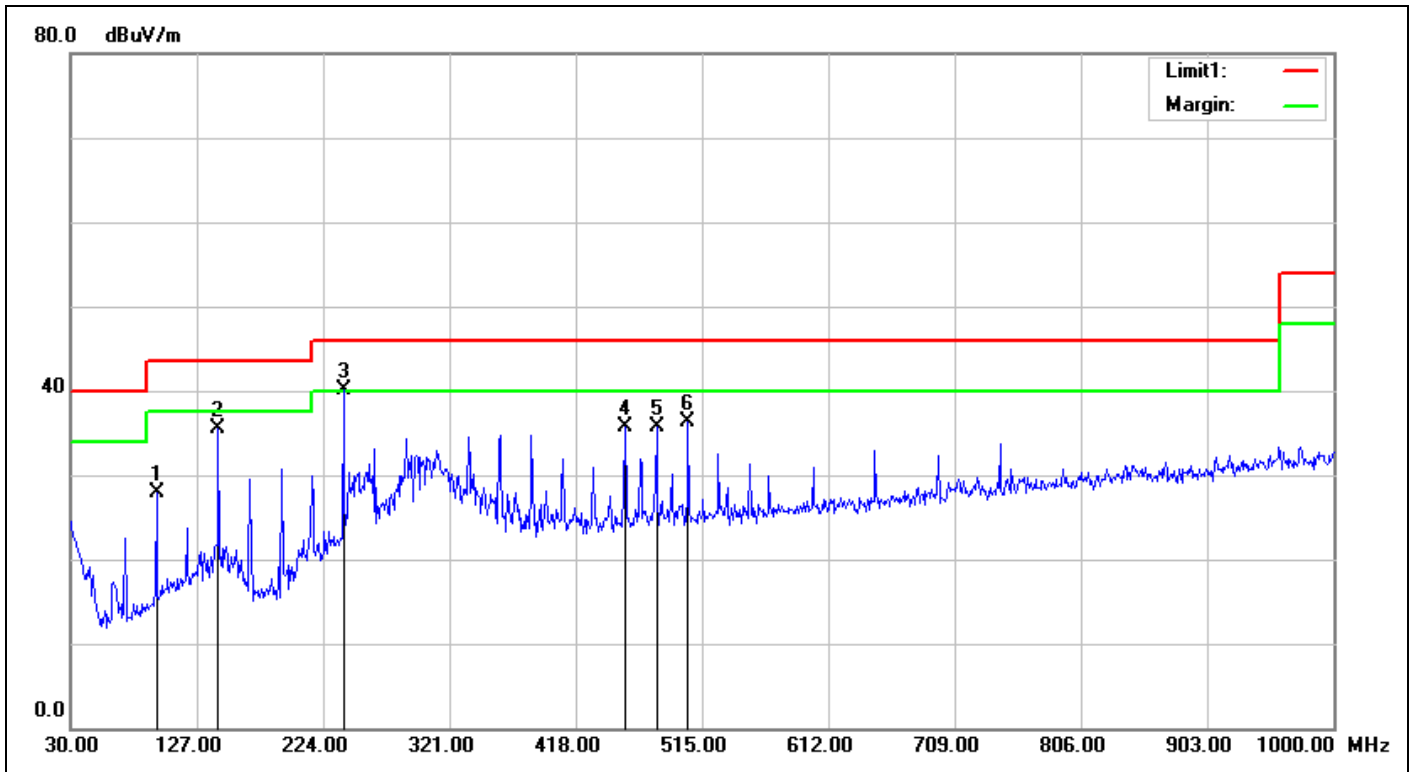
Spurious Emissions, TX Mode, 30M-1G



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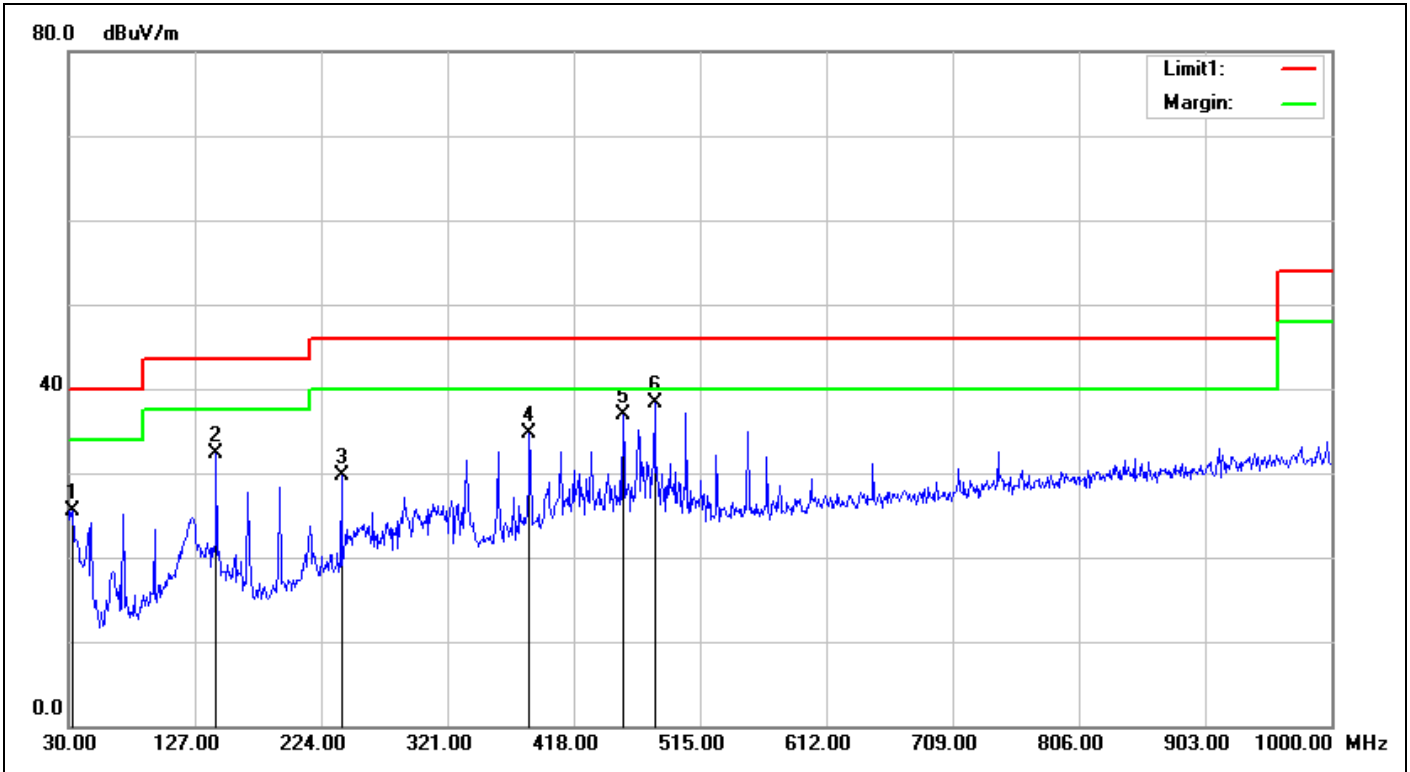
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Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 22:06:13
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	95.9599	-10.03	38.01	27.98	43.50	-15.52	QP	100	203	
2	143.4900	-7.14	42.63	35.49	43.50	-8.01	QP	100	90	
3	239.5200	-6.73	46.91	40.18	46.00	-5.82	QP	100	228	
4	455.8299	-1.94	37.71	35.77	46.00	-10.23	QP	100	211	
5	480.0799	-1.62	37.28	35.66	46.00	-10.34	QP	100	70	
6	504.3299	-1.32	37.70	36.38	46.00	-9.62	QP	100	93	

Spurious Emissions, TX Mode, 30M-1G



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 22:07:17
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	TX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	32.9100	-1.74	27.33	25.59	40.00	-14.41	QP	100	138	
2	143.4900	-7.14	39.47	32.33	43.50	-11.17	QP	100	177	
3	239.5200	-6.73	36.34	29.61	46.00	-16.39	QP	100	196	
4	384.0500	-2.90	37.52	34.62	46.00	-11.38	QP	100	180	
5	455.8300	-1.94	38.92	36.98	46.00	-9.02	QP	100	188	
6	480.0800	-1.62	39.94	38.32	46.00	-7.68	QP	100	157	

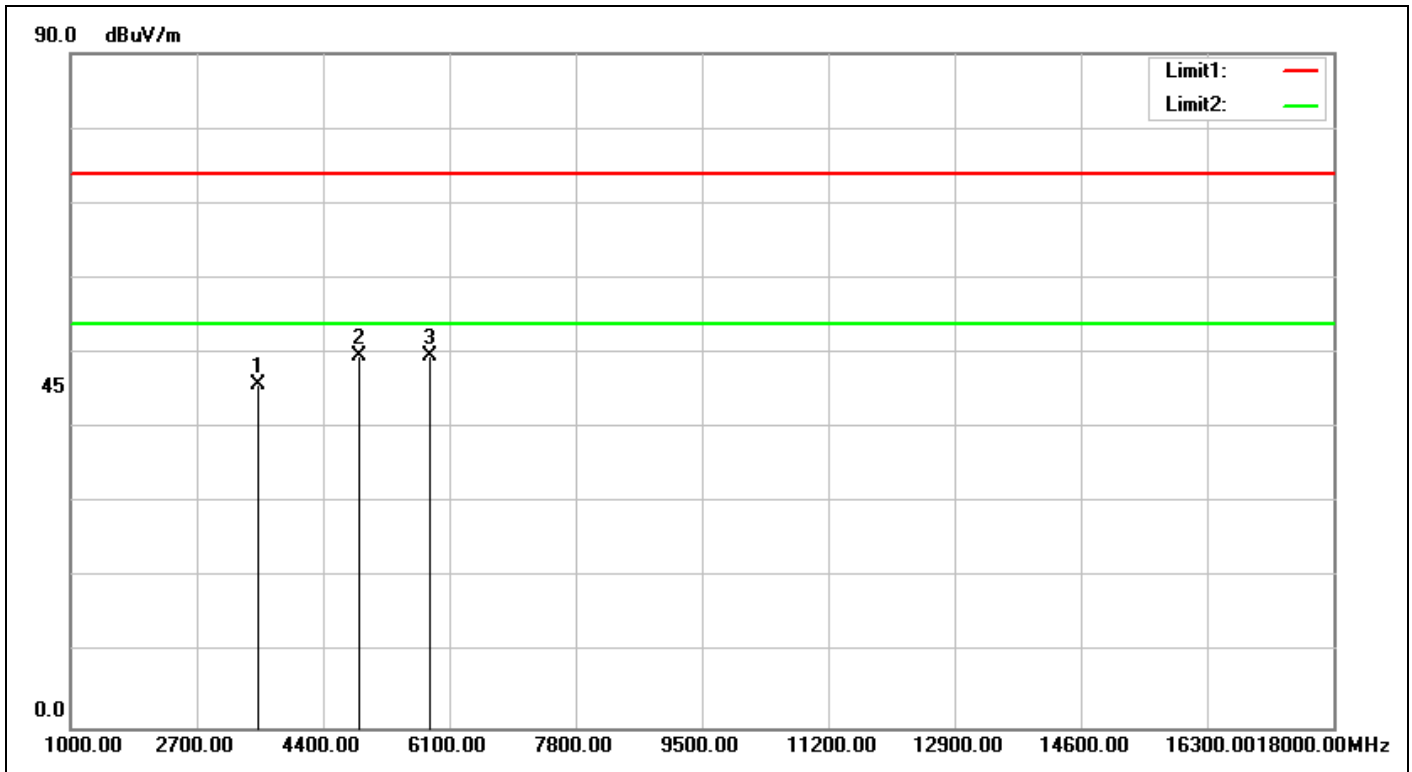
Spurious Emissions, RX Mode, 1-18G



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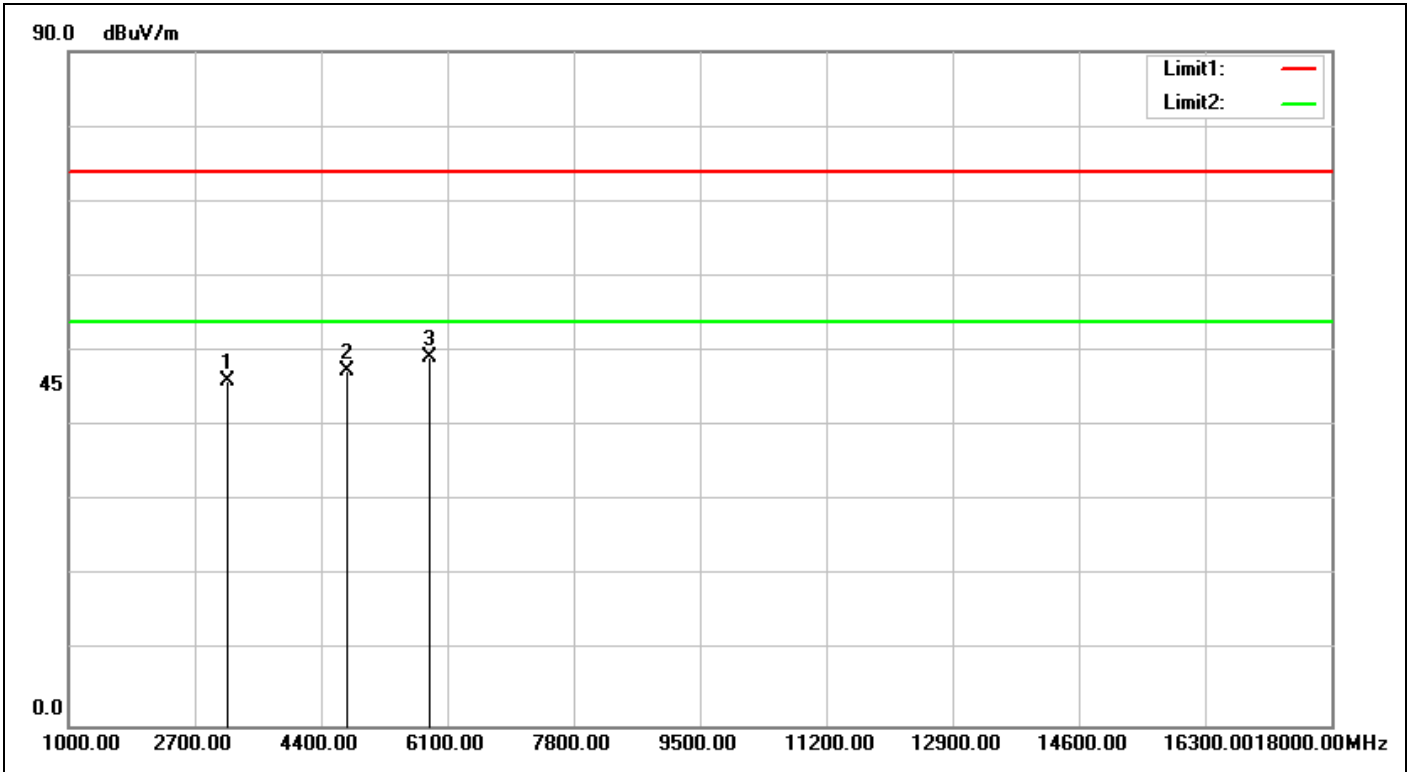
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Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 20:55:00
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	RX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3533.000	-5.83	51.60	45.77	74.00	-28.23	peak	100	211	
2	4876.000	-2.47	52.14	49.67	74.00	-24.33	peak	100	344	
3	5828.000	2.73	46.93	49.66	74.00	-24.34	peak	100	264	



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 20:56:02
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	RX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	3142.000	-6.35	52.27	45.92	74.00	-28.08	peak	100	135	
2	4757.000	-2.75	50.03	47.28	74.00	-26.72	peak	100	188	
3	5862.000	2.97	46.20	49.17	74.00	-24.83	peak	100	1	

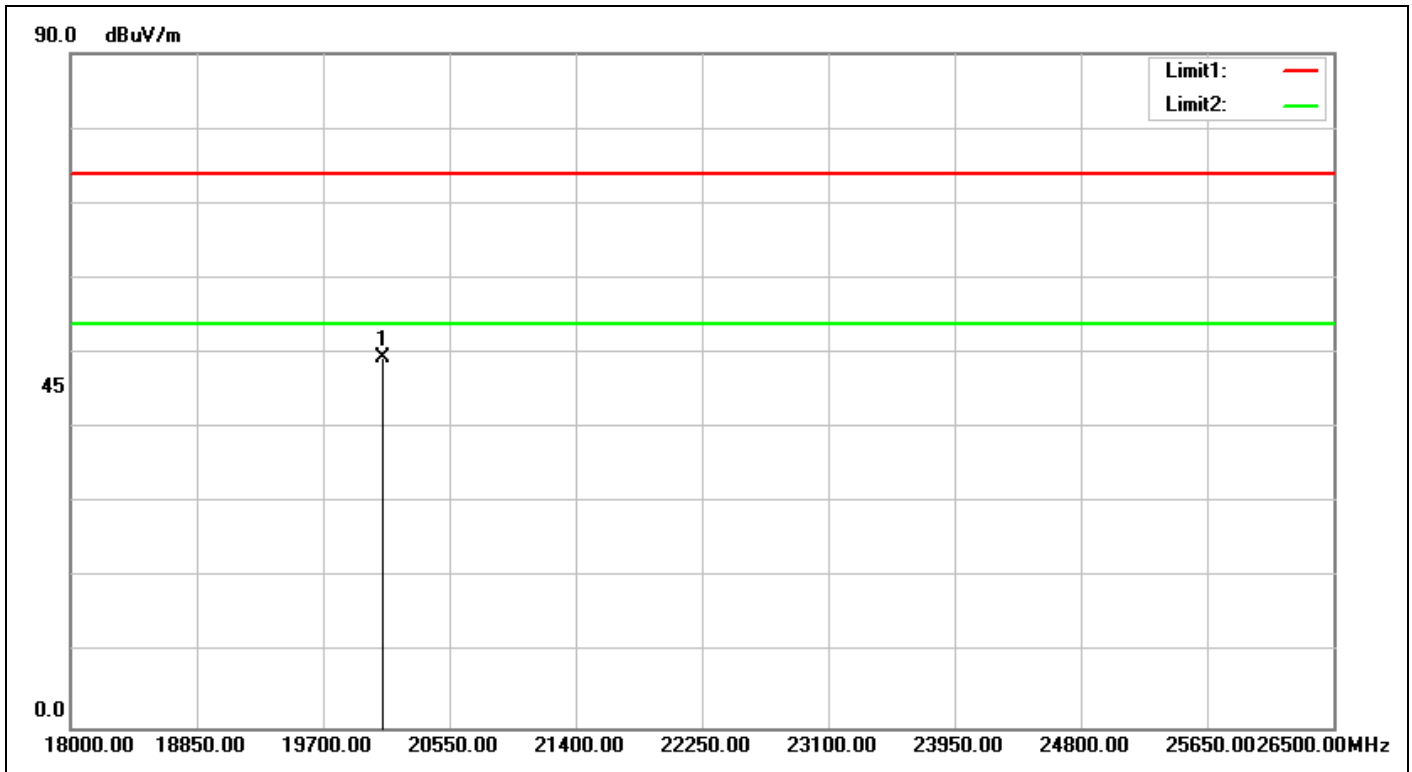
Spurious Emissions, RX Mode, 18-26G



TUV Taiwan

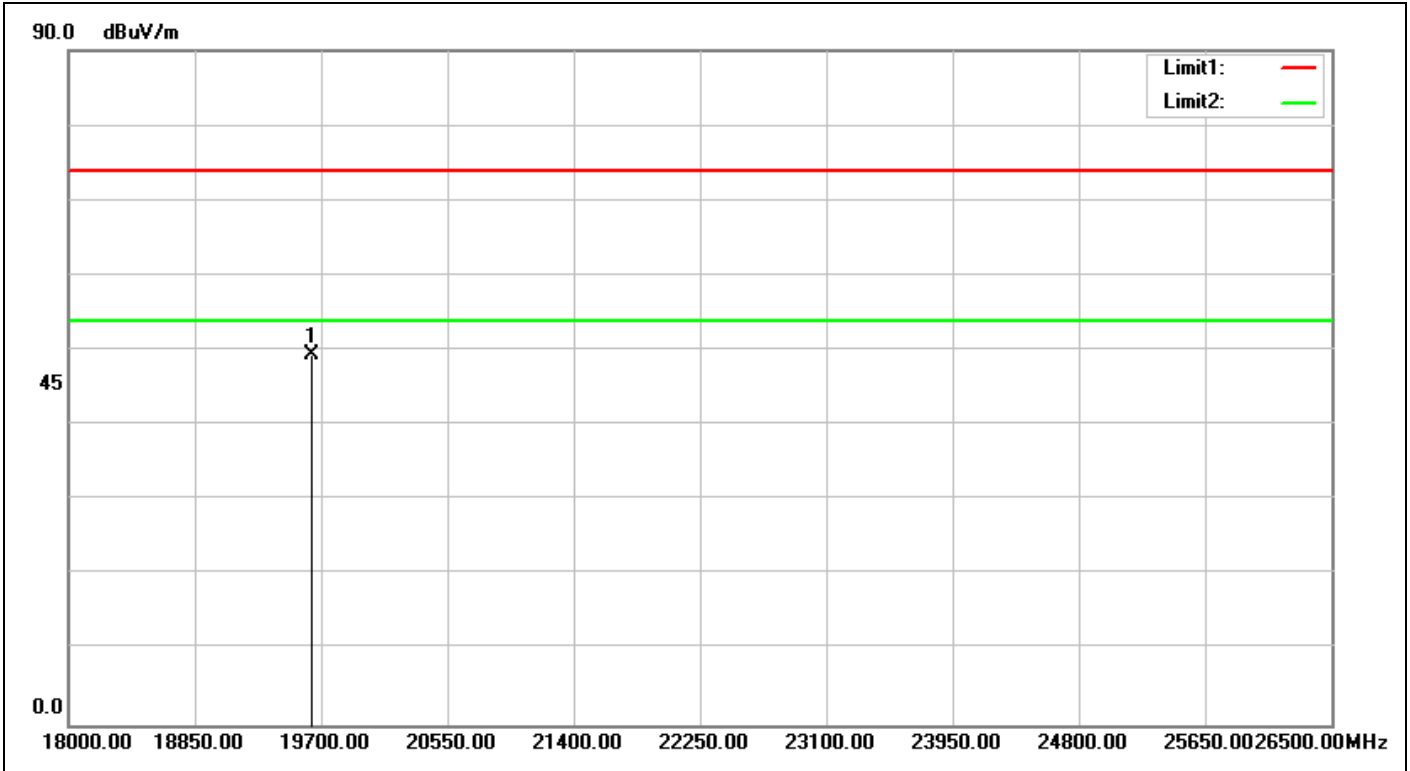
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 21:11:31
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	RX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20099.500	29.79	19.70	49.49	74.00	-24.51	peak	100	0	



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 21:12:34
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	RX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	19640.500	29.64	19.69	49.33	74.00	-24.67	peak	100	233	

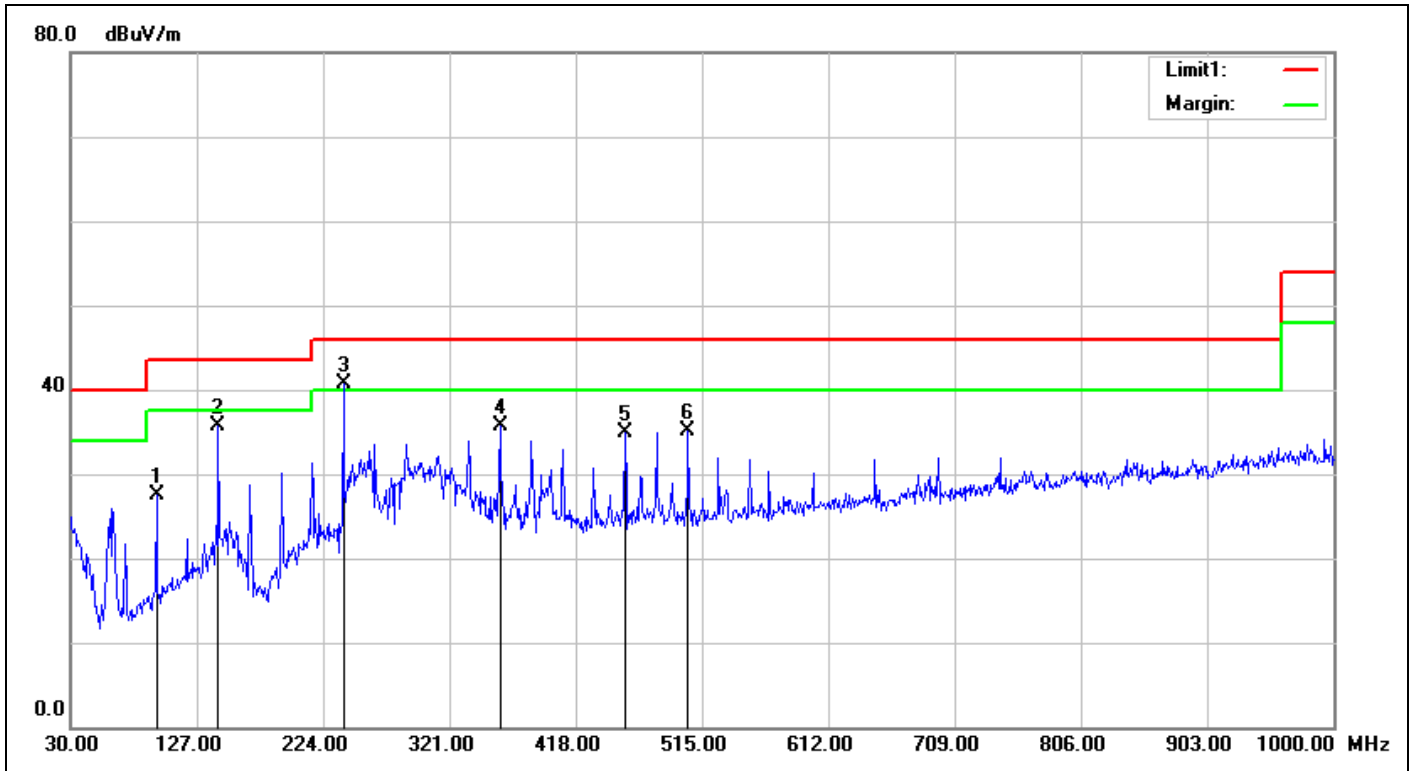
Spurious Emissions, RX Mode, 30M-1G



TUV Taiwan

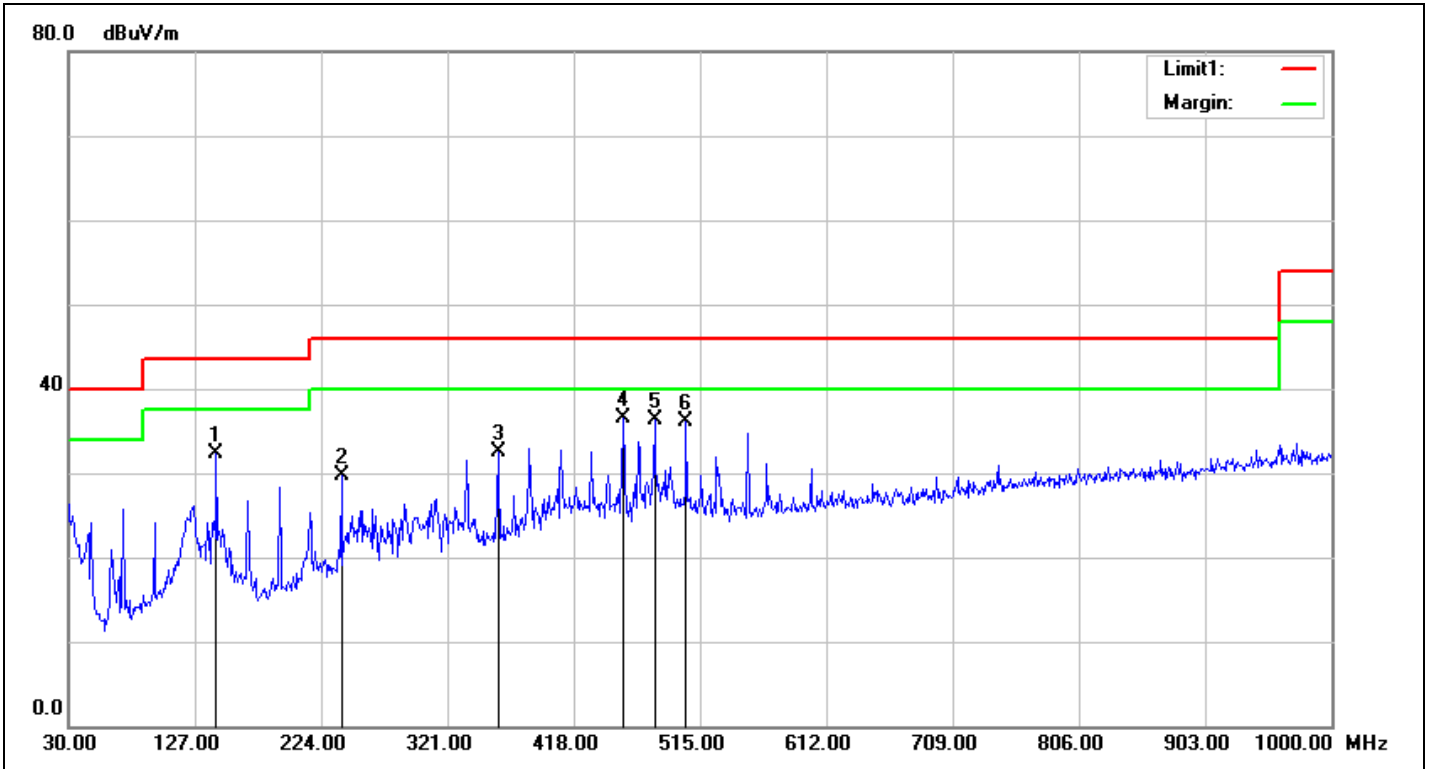
11F., No.758, Sec.4 Bade Road. Songshan Dist, Taipei City 105

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



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2016/9/5 22:09:52
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	RX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	95.9599	-10.03	37.47	27.44	43.50	-16.06	QP	100	206	
2	143.4900	-7.14	42.75	35.61	43.50	-7.89	QP	100	222	
3	239.5200	-6.73	47.41	40.68	46.00	-5.32	QP	100	228	
4	359.8000	-3.30	38.95	35.65	46.00	-10.35	QP	100	134	
5	455.8299	-1.94	36.76	34.82	46.00	-11.18	QP	100	203	
6	504.3299	-1.32	36.45	35.13	46.00	-10.87	QP	100	76	



Service No.:	114055392-FCC	Test Distance:	3m
Test Standard:	FCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2016/9/5 22:10:56
Applicant:	Acrox	Test Rating:	AC 120V/60Hz
Product:	Slim Bluetooth Mouse for Mac	Temp.(°C)/Hum.(%):	22.2(°C)/59%
Model No.:	NS-PNM72B-WH	Test Engineer:	Sam Su
Test Mode:	RX-1DH5-2441		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	143.4900	-7.14	39.42	32.28	43.50	-11.22	QP	100	174	
2	239.5200	-6.73	36.53	29.80	46.00	-16.20	QP	100	193	
3	359.8000	-3.30	35.75	32.45	46.00	-13.55	QP	100	146	
4	455.8300	-1.94	38.49	36.55	46.00	-9.45	QP	100	202	
5	480.0800	-1.62	37.99	36.37	46.00	-9.63	QP	100	199	
6	504.3300	-1.32	37.42	36.10	46.00	-9.90	QP	100	168	