

Test Report No.50213465 50213468 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50213465 50213468AppendixD)

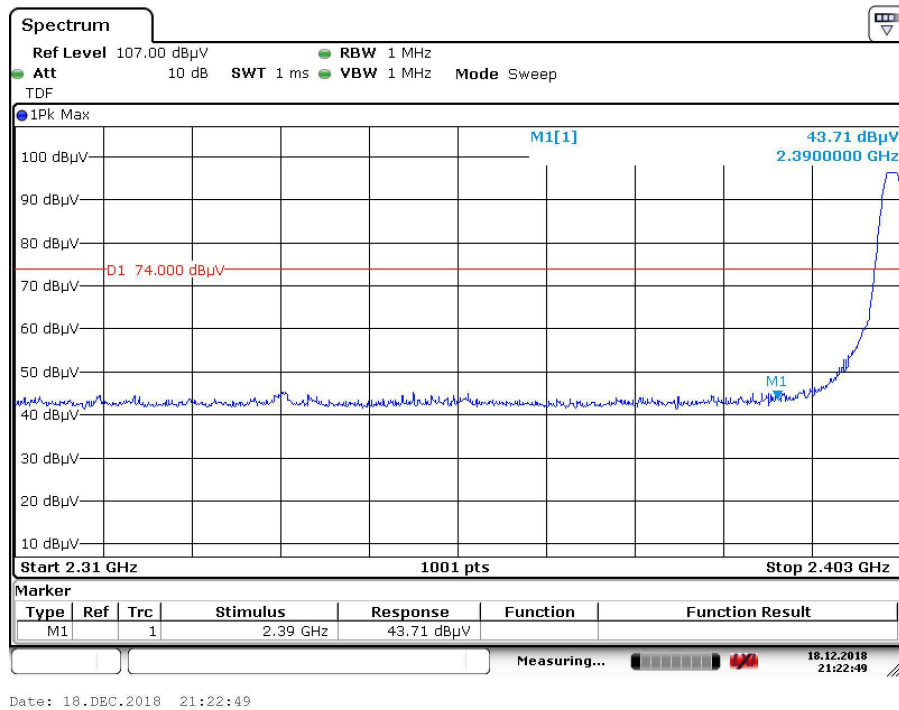
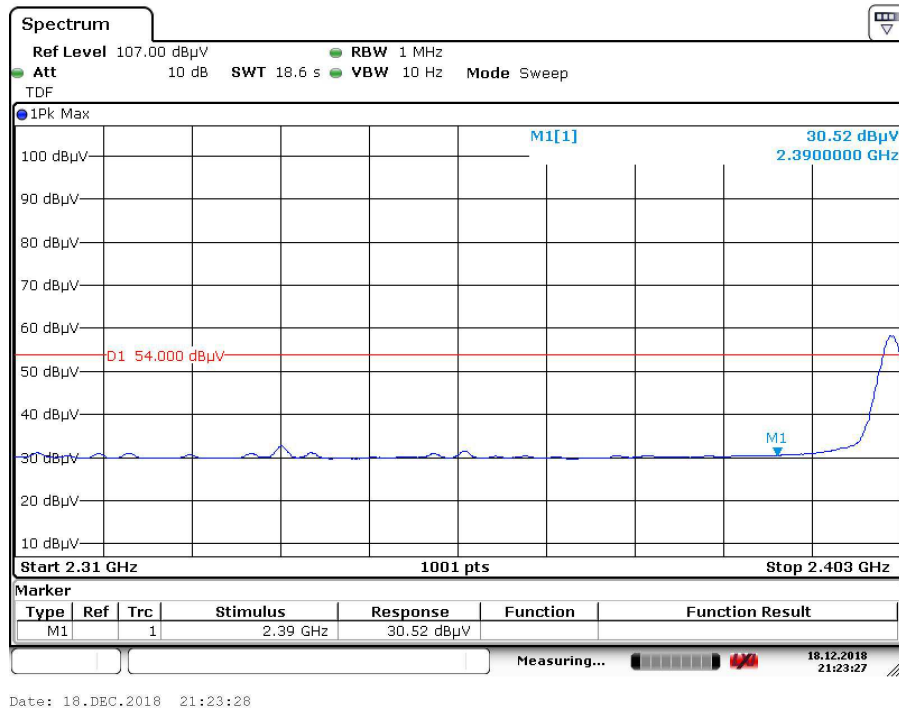
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Spurious Emissions, Band Edges, 2.35-2.5G

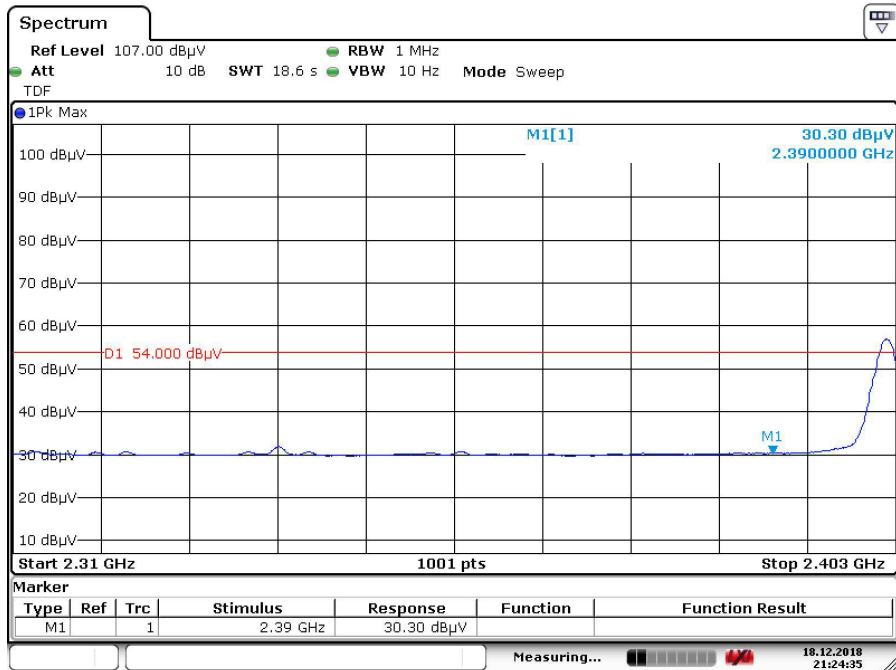
Radiated Bandedge

Low Channel (Hor)

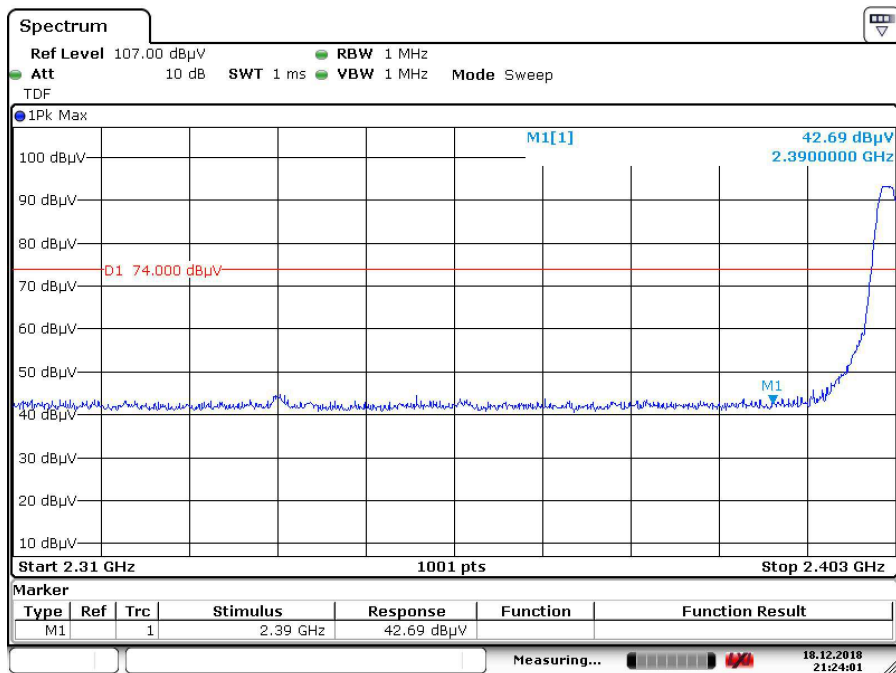


Spurious Emissions, Band Edge, 2.35-2.5G

Low Channel (Ver)



Date: 18.DEC.2018 21:24:35

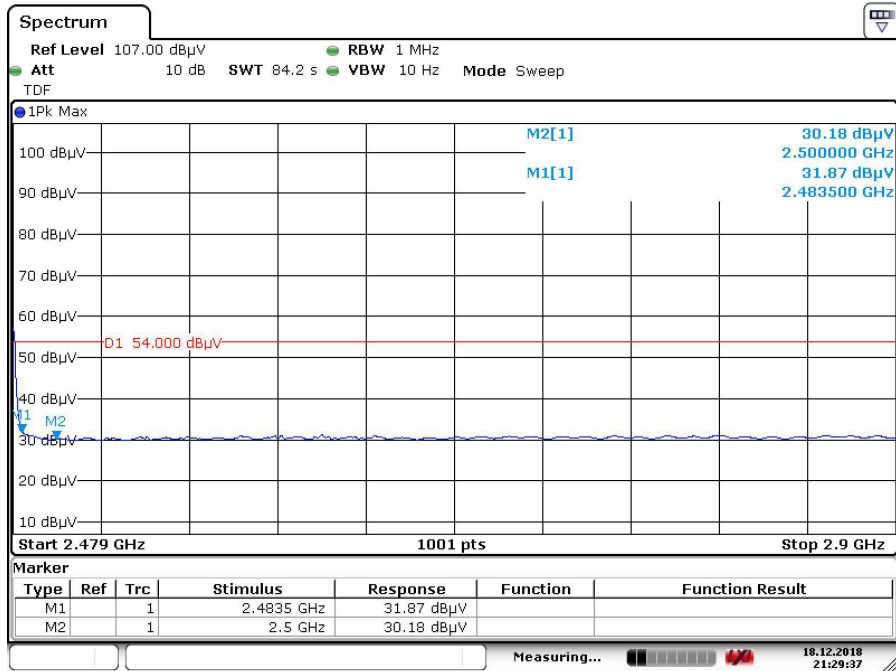


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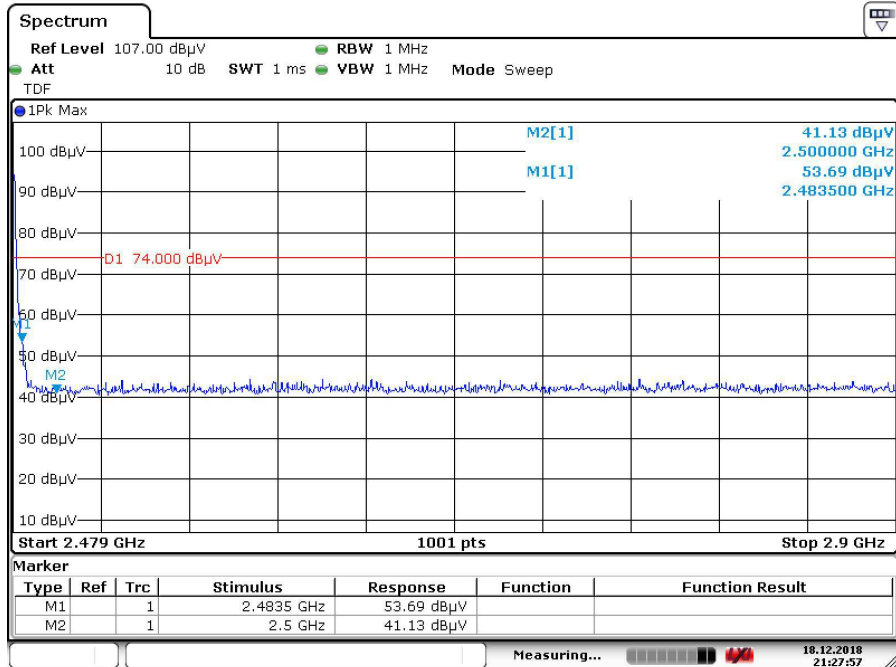
Spurious Emissions, Band Edge, 2.35-2.5G

Radiated Bandedge

High Channel (Hor)



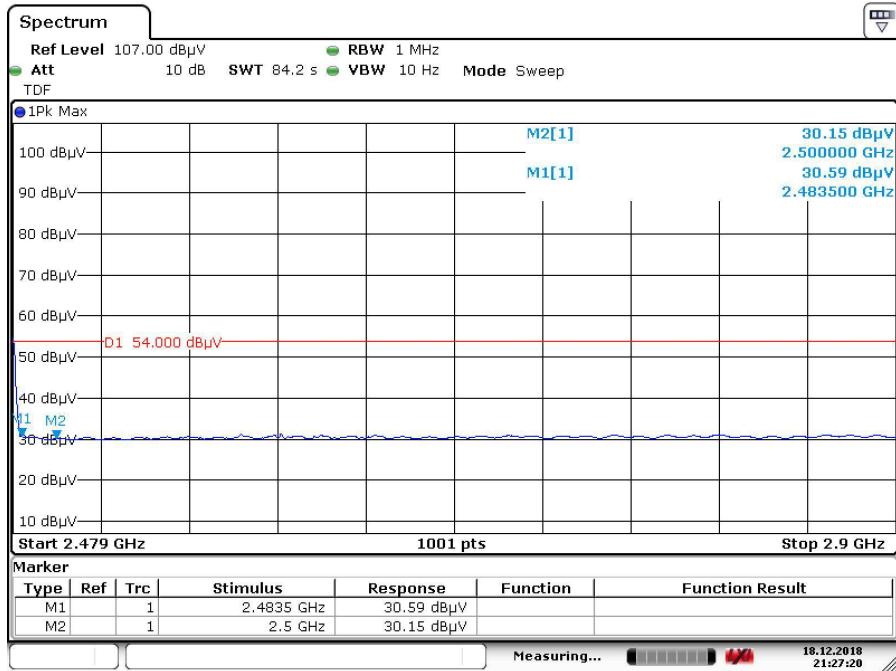
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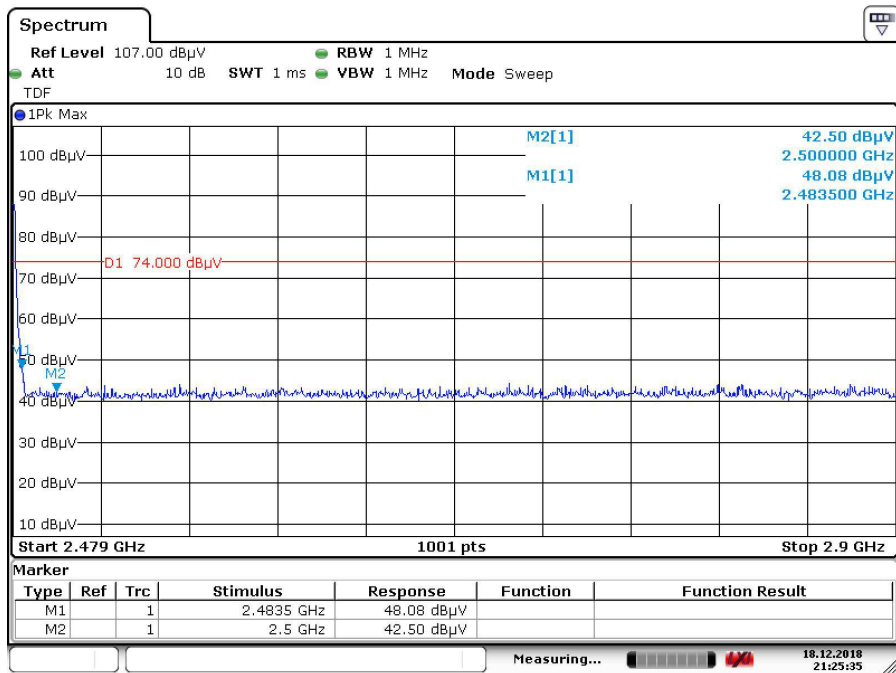
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Spurious Emissions, Band Edge, 2.35-2.5G

High Channel (Ver)



Date: 18.DEC.2018 21:27:21



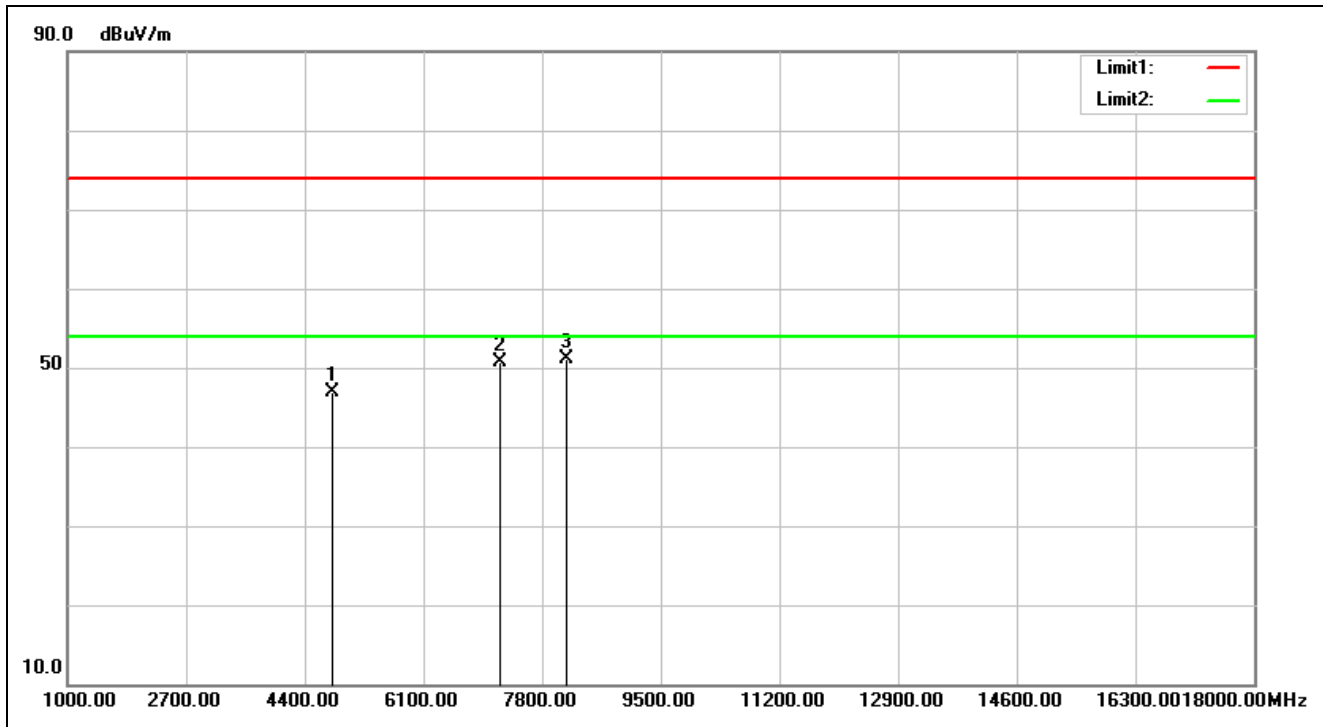
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Spurious Emissions, Band Edge, 2.35-2.5G

Spurious Emissions, TX Mode, 1-18G

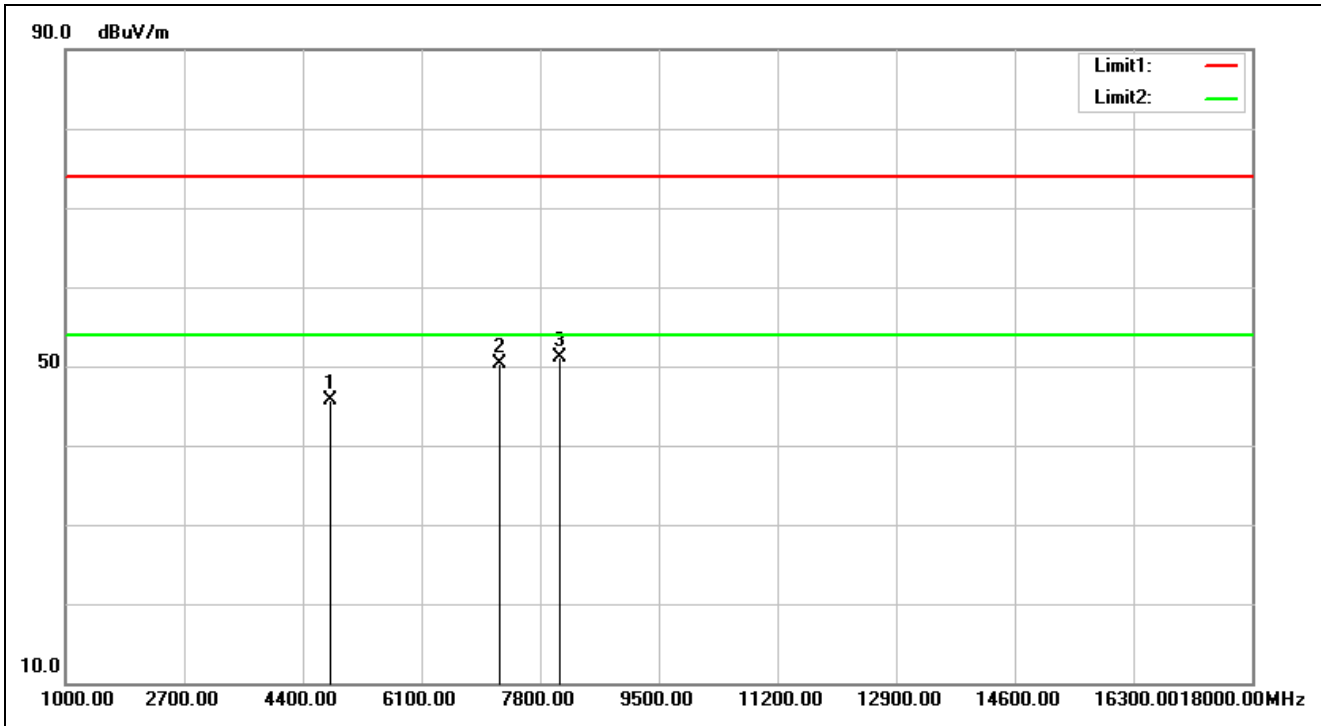


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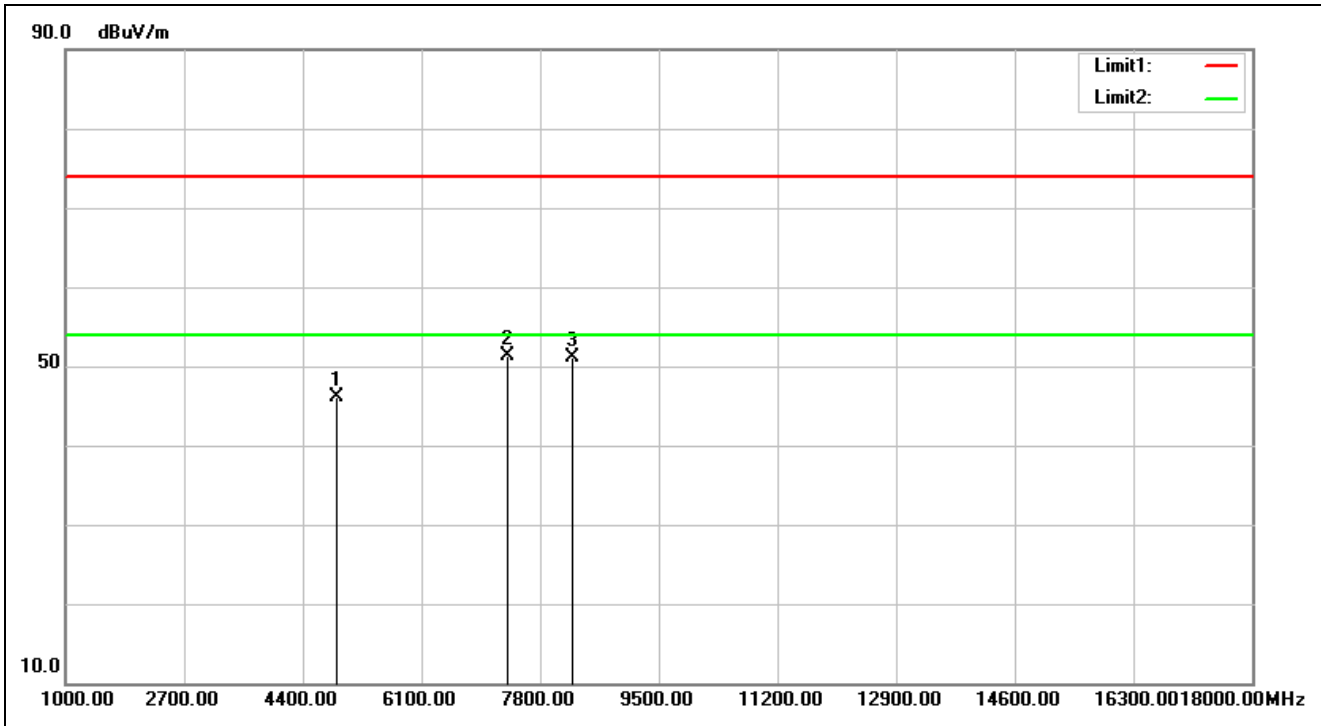
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:19:24
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	49.62	46.98	74.00	-27.02	peak		0	
2	7206.000	5.26	45.44	50.70	74.00	-23.30	peak		0	
3	8140.000	5.97	45.05	51.02	74.00	-22.98	peak	100	114	



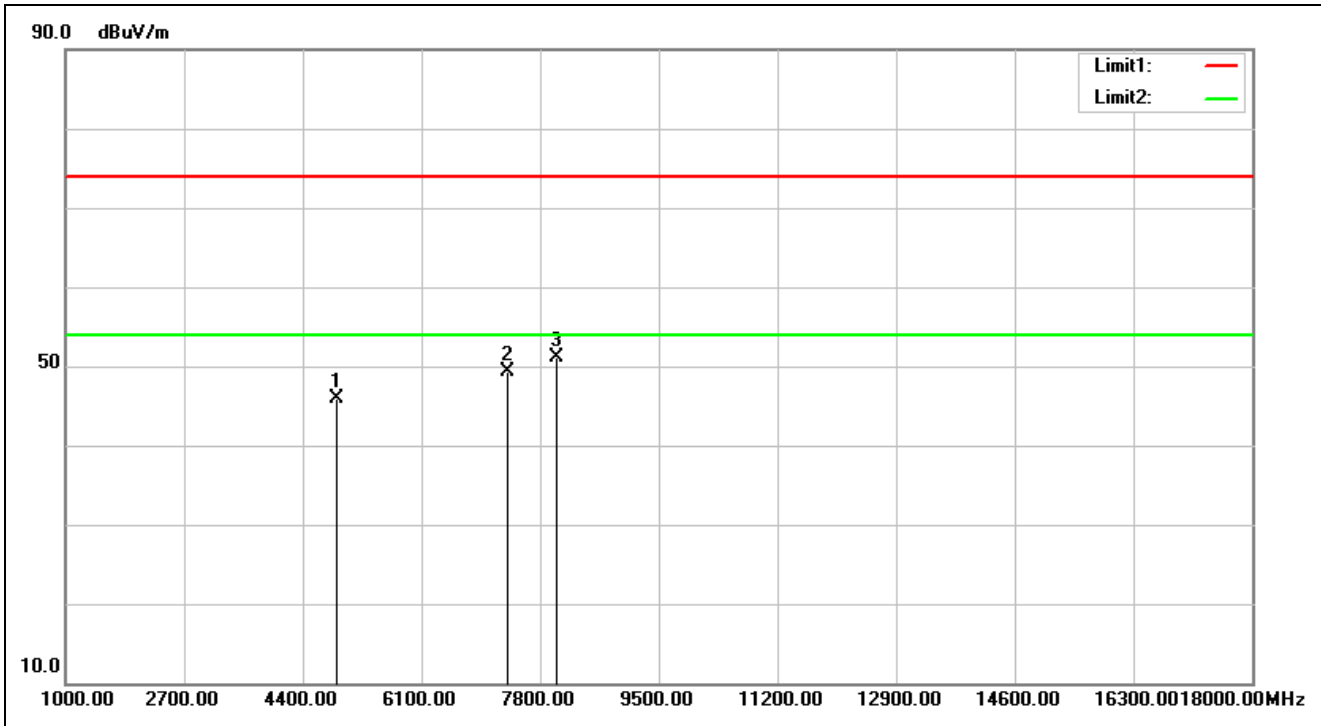
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:20:16
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4804.000	-2.64	48.32	45.68	74.00	-28.32	peak			
2	7206.000	5.26	45.13	50.39	74.00	-23.61	peak			
3	8072.000	5.84	45.28	51.12	74.00	-22.88	peak	100	157	



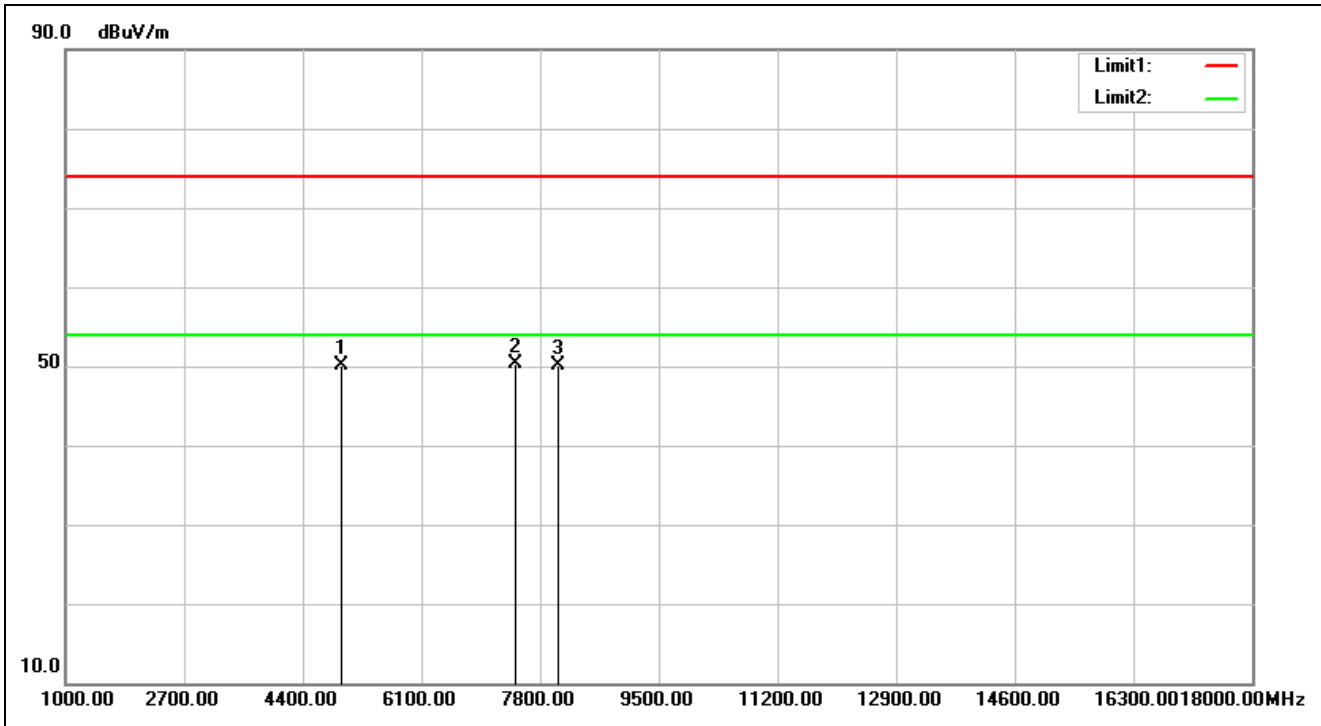
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:22:06
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	-2.45	48.54	46.09	74.00	-27.91	peak			
2	7323.000	5.54	45.70	51.24	74.00	-22.76	peak			
3	8259.000	6.18	44.89	51.07	74.00	-22.93	peak	100	360	



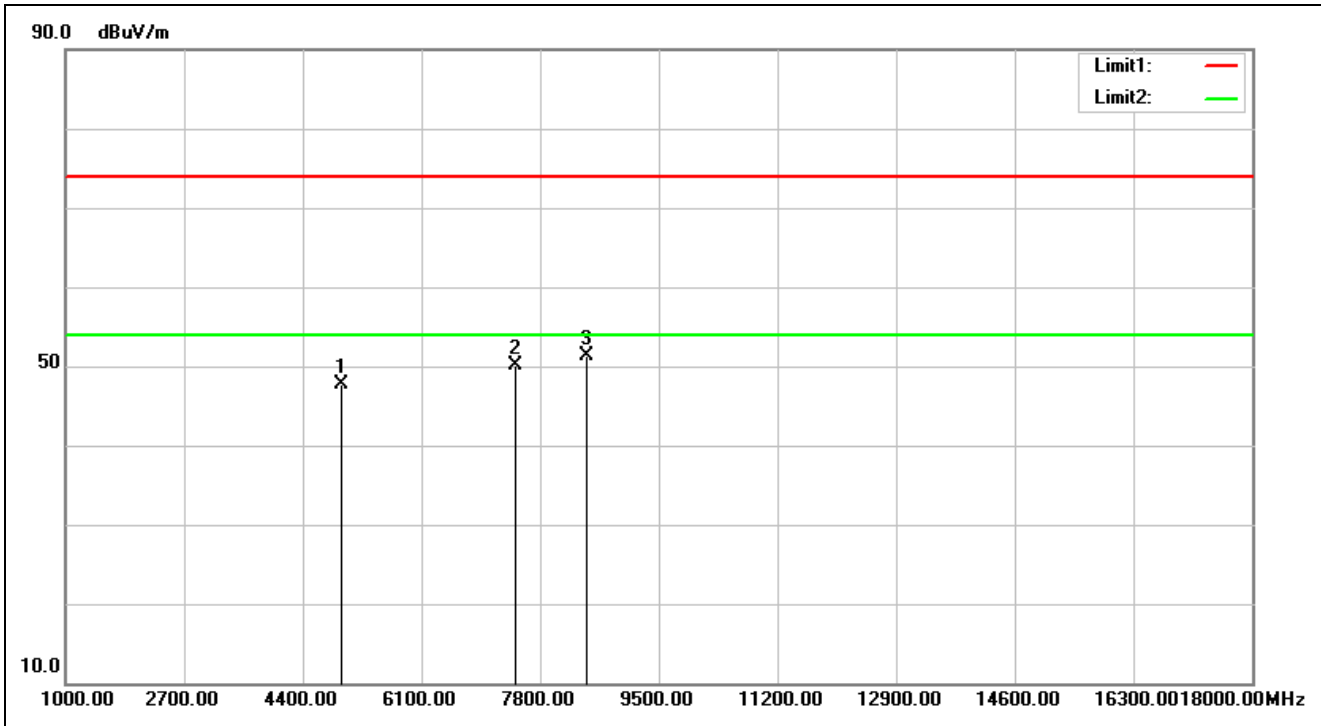
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:22:58
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	-2.45	48.28	45.83	74.00	-28.17	peak			
2	7323.000	5.54	43.84	49.38	74.00	-24.62	peak			
3	8038.000	5.79	45.36	51.15	74.00	-22.85	peak	100	211	



Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:25:06
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2479-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4958.000	-2.25	52.42	50.17	74.00	-23.83	peak			
2	7437.000	5.83	44.49	50.32	74.00	-23.68	peak			
3	8055.000	5.81	44.29	50.10	74.00	-23.90	peak	100	97	



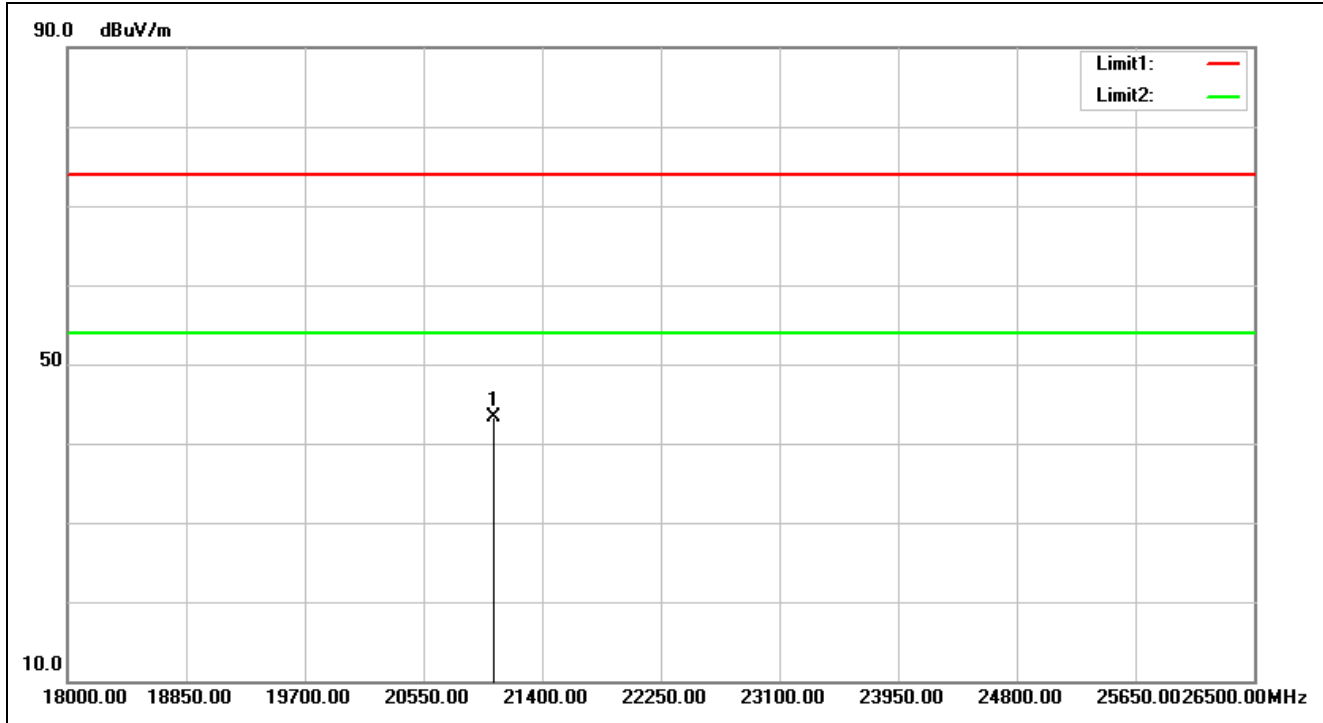
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:25:58
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2479-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	4958.000	-2.25	49.86	47.61	74.00	-26.39	peak			
2	7437.000	5.83	44.19	50.02	74.00	-23.98	peak			
3	8463.000	6.54	44.68	51.22	74.00	-22.78	peak	100	325	

Spurious Emissions, TX Mode, 18-26G

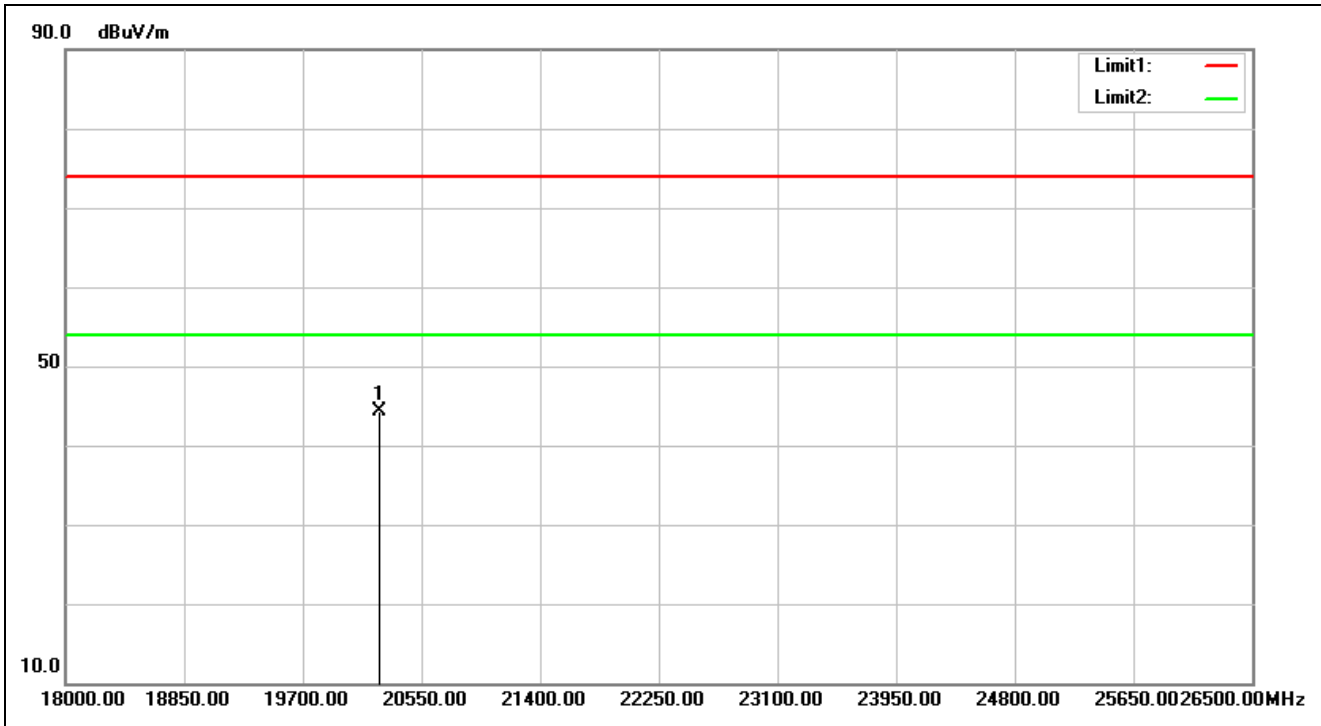


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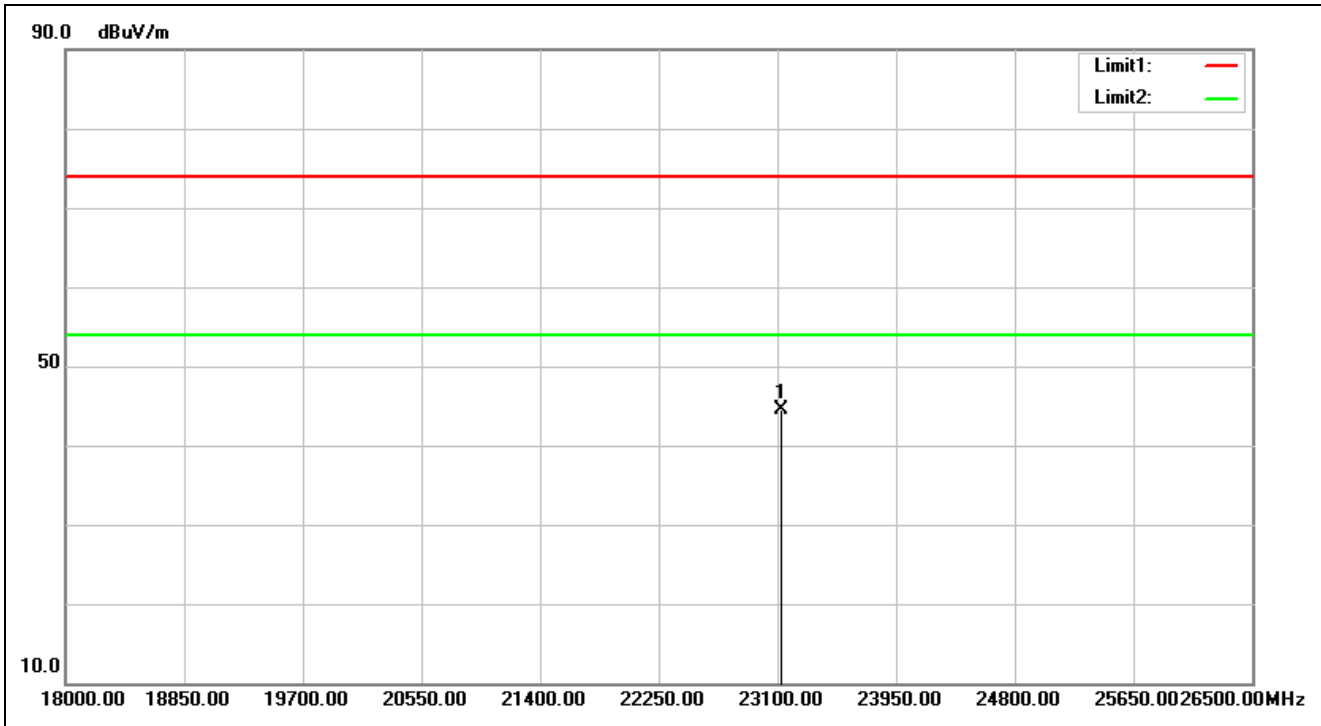
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:39:28
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21051.500	4.21	39.05	43.26	74.00	-30.74	peak		0	



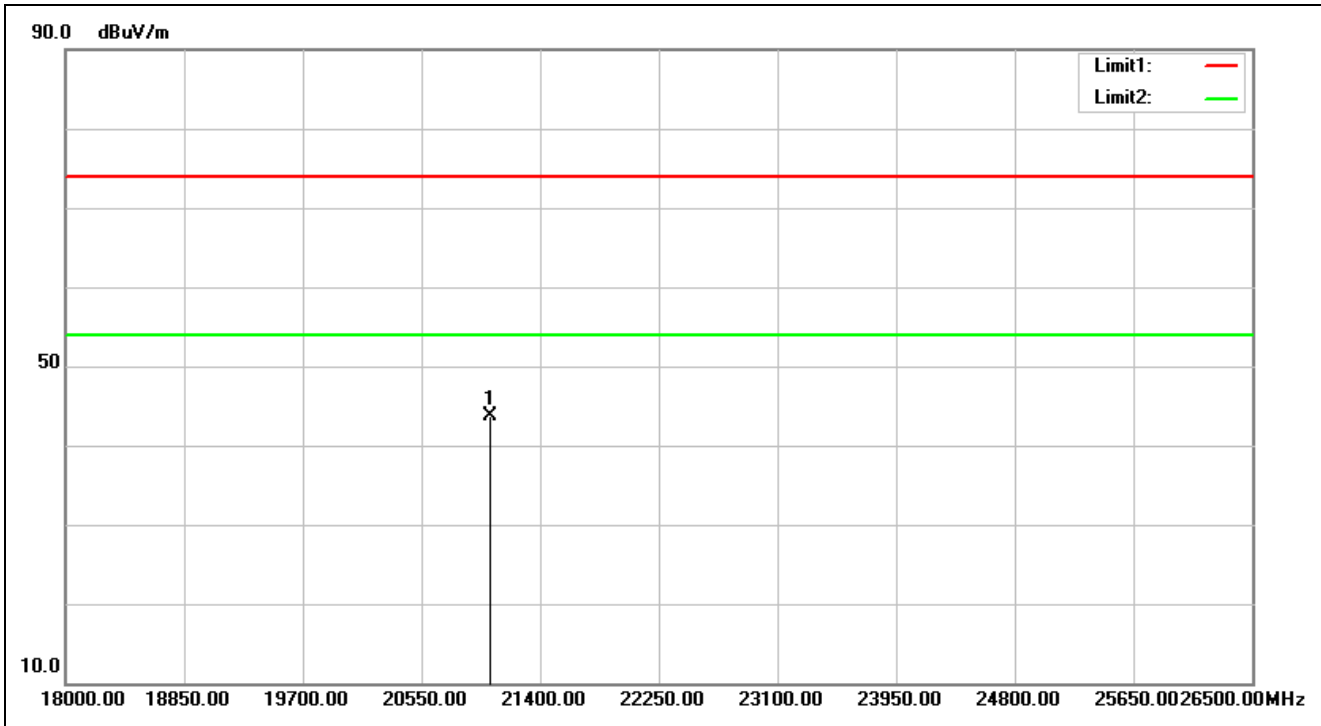
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Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:39:35
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2402-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	20252.500	4.23	40.06	44.29	74.00	-29.71	peak			



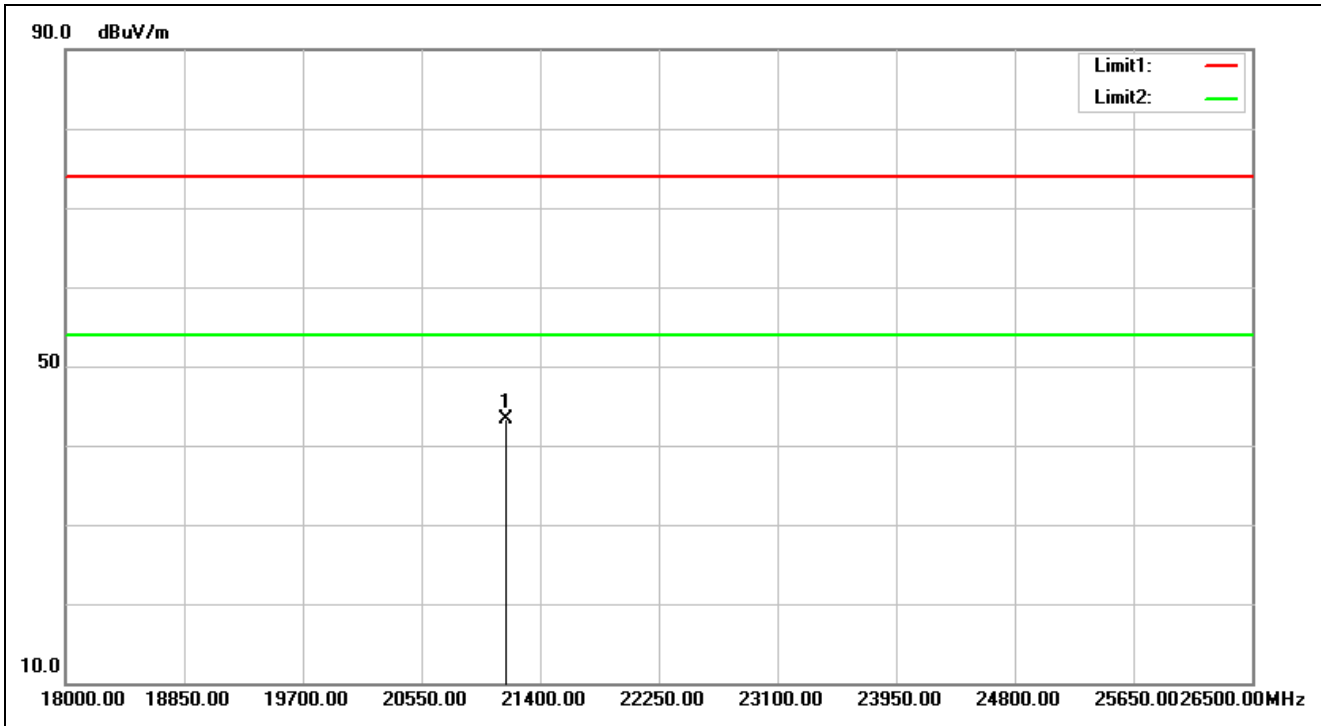
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:40:14
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	23125.500	5.28	39.20	44.48	74.00	-29.52	peak			



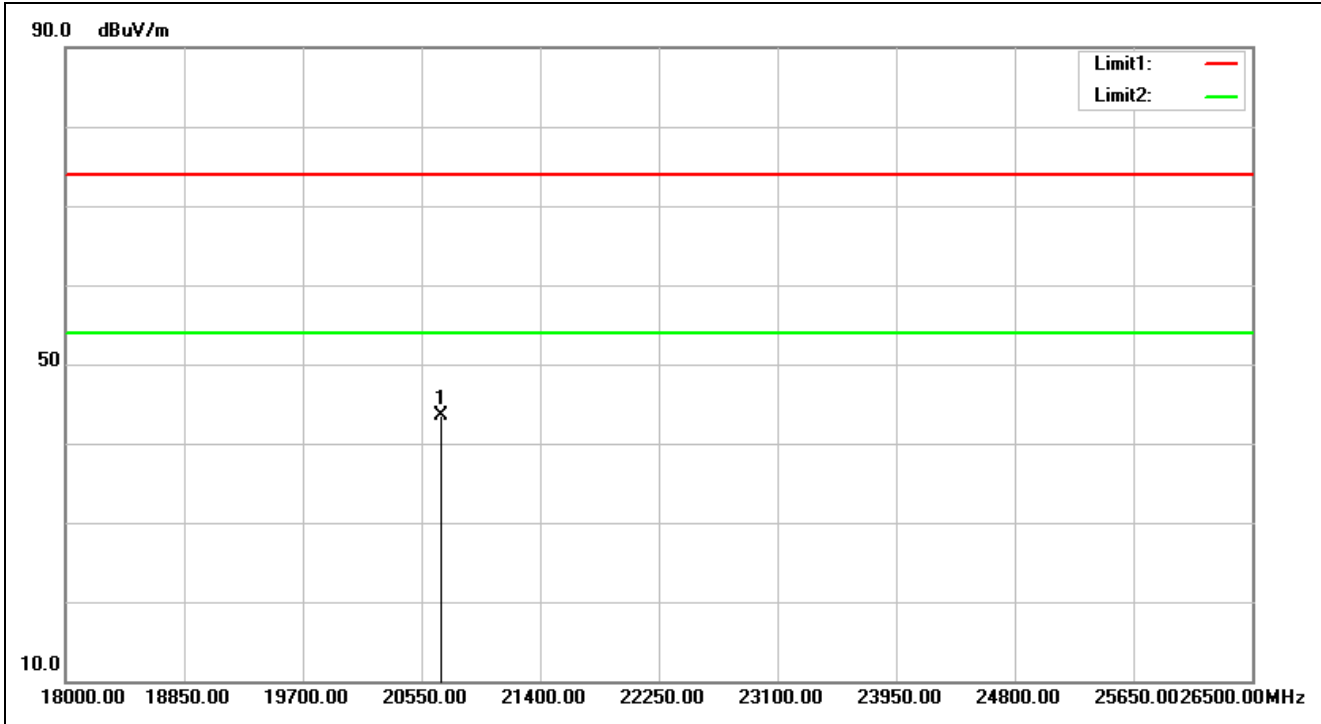
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:40:20
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	21043.000	4.21	39.40	43.61	74.00	-30.39	peak			



Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:40:43
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2479-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	21153.500	4.26	38.95	43.21	74.00	-30.79	peak			



Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:40:49
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2479-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	4.38	39.03	43.41	74.00	-30.59	peak			

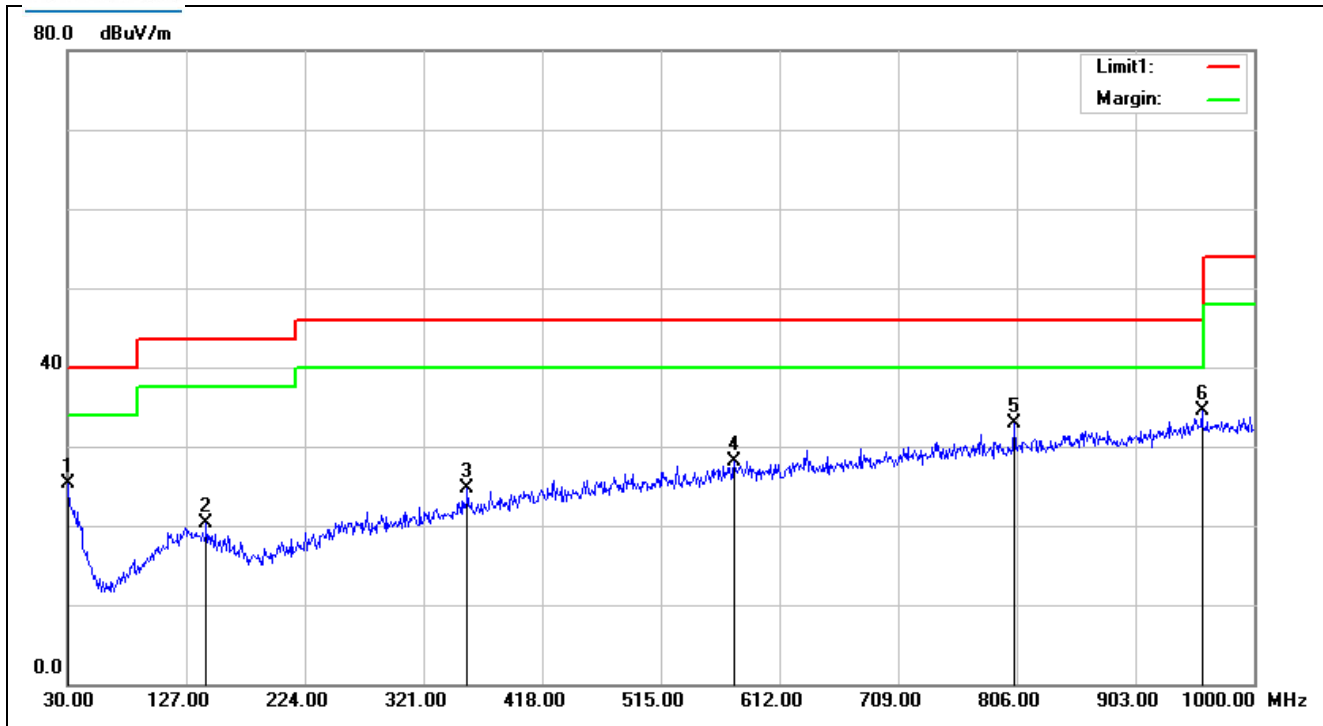
Spurious Emissions, TX Mode, 30M-1G



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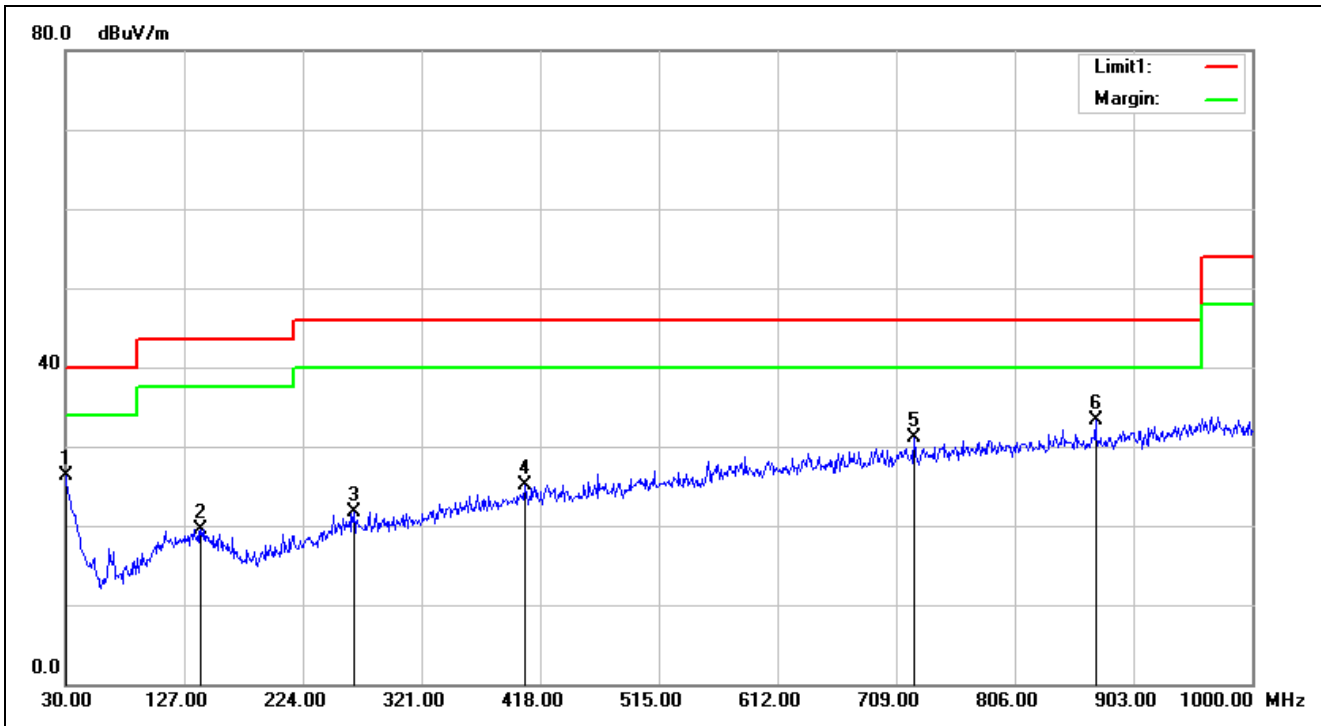
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Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 22:03:58
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2441-TX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	25.39	25.36	40.00	-14.64	QP	100	213	
2	143.4900	-7.02	27.32	20.30	43.50	-23.20	QP	100	341	
3	356.8900	-3.16	27.94	24.78	46.00	-21.22	QP	100	163	
4	575.1400	0.13	28.07	28.20	46.00	-17.80	QP	100	2	
5	804.0599	3.13	29.81	32.94	46.00	-13.06	QP	100	199	
6	957.3200	5.93	28.58	34.51	46.00	-11.49	QP	100	282	

Spurious Emissions, TX Mode, 9k-30M



Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 22:04:51
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2441-TX		
Remark:			

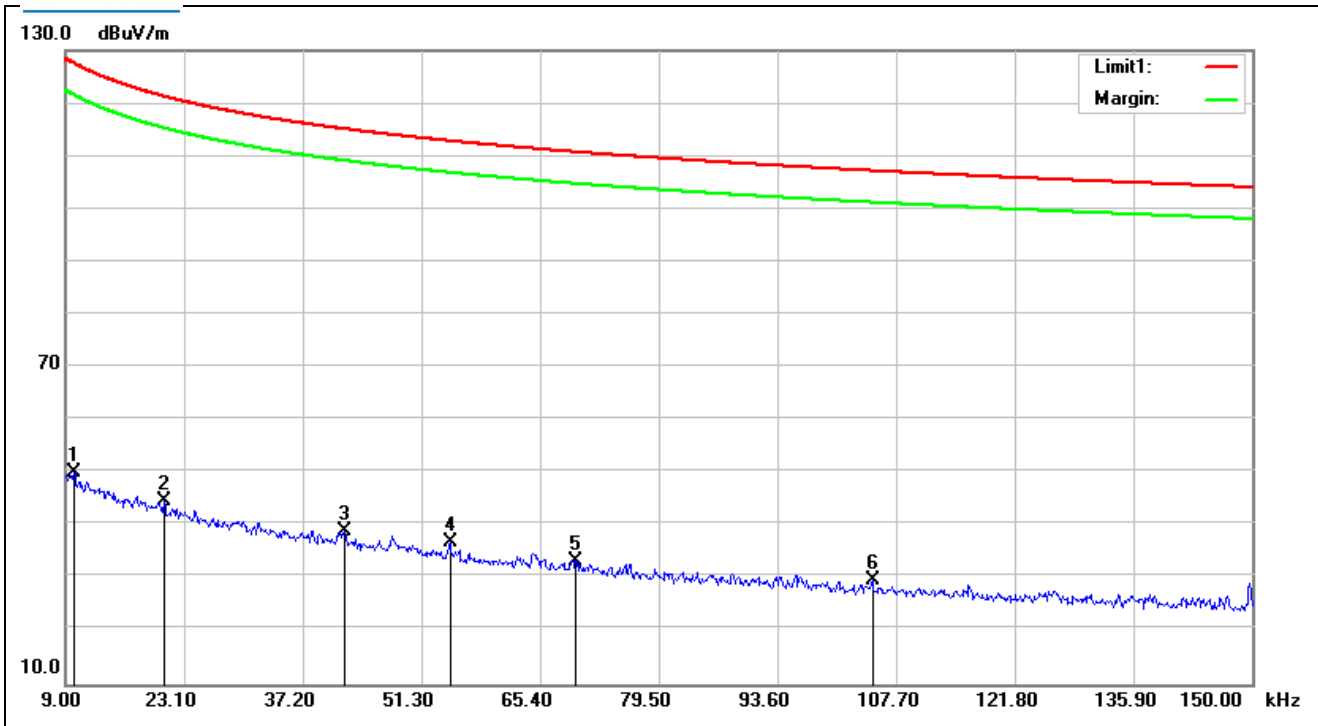
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	26.32	26.29	40.00	-13.71	QP	100	206	
2	140.5800	-7.00	26.59	19.59	43.50	-23.91	QP	100	36	
3	265.7100	-5.14	26.81	21.67	46.00	-24.33	QP	100	289	
4	405.3900	-2.12	27.25	25.13	46.00	-20.87	QP	100	230	
5	723.5500	1.79	29.38	31.17	46.00	-14.83	QP	100	318	
6	871.9600	4.19	29.02	33.21	46.00	-12.79	QP	100	256	

Spurious Emissions, TX Mode, 9k-30M

Spurious Emissions, TX Mode, 9k-30M



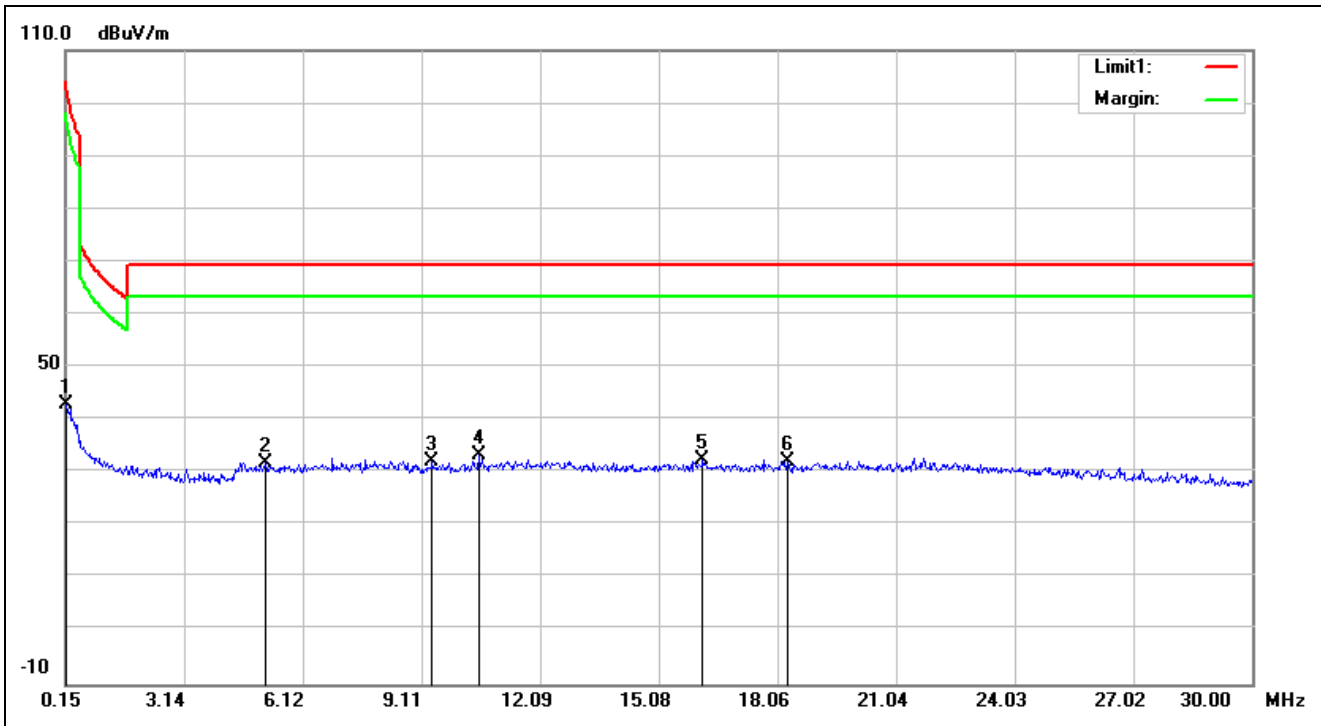
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Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/12/18 22:12:14
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	0.0099	18.50	31.66	50.16	127.67	-77.51	QP	100	255	
2	0.0207	18.95	25.61	44.56	121.27	-76.71	QP	100	360	
3	0.0421	19.08	19.94	39.02	115.11	-76.09	QP	100	262	
4	0.0546	18.86	18.08	36.94	112.85	-75.91	QP	100	331	
5	0.0696	18.68	14.59	33.27	110.74	-77.47	QP	100	143	
6	0.1048	18.33	11.32	29.65	107.19	-77.54	QP	100	5	

Spurious Emissions, TX Mode, 9k-30M



Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/12/18 22:14:46
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	0.1798	18.37	24.72	43.09	102.50	-59.41	QP	100	304	
2	5.1946	19.51	12.44	31.95	69.50	-37.55	QP	100	12	
3	9.3736	20.32	11.92	32.24	69.50	-37.26	QP	100	359	
4	10.5378	20.50	12.86	33.36	69.50	-36.14	QP	100	48	
5	16.1794	21.16	11.26	32.42	69.50	-37.08	QP	100	87	
6	18.2988	21.40	10.86	32.26	69.50	-37.24	QP	100	262	

Spurious Emissions, TX Mode, 9k-30M

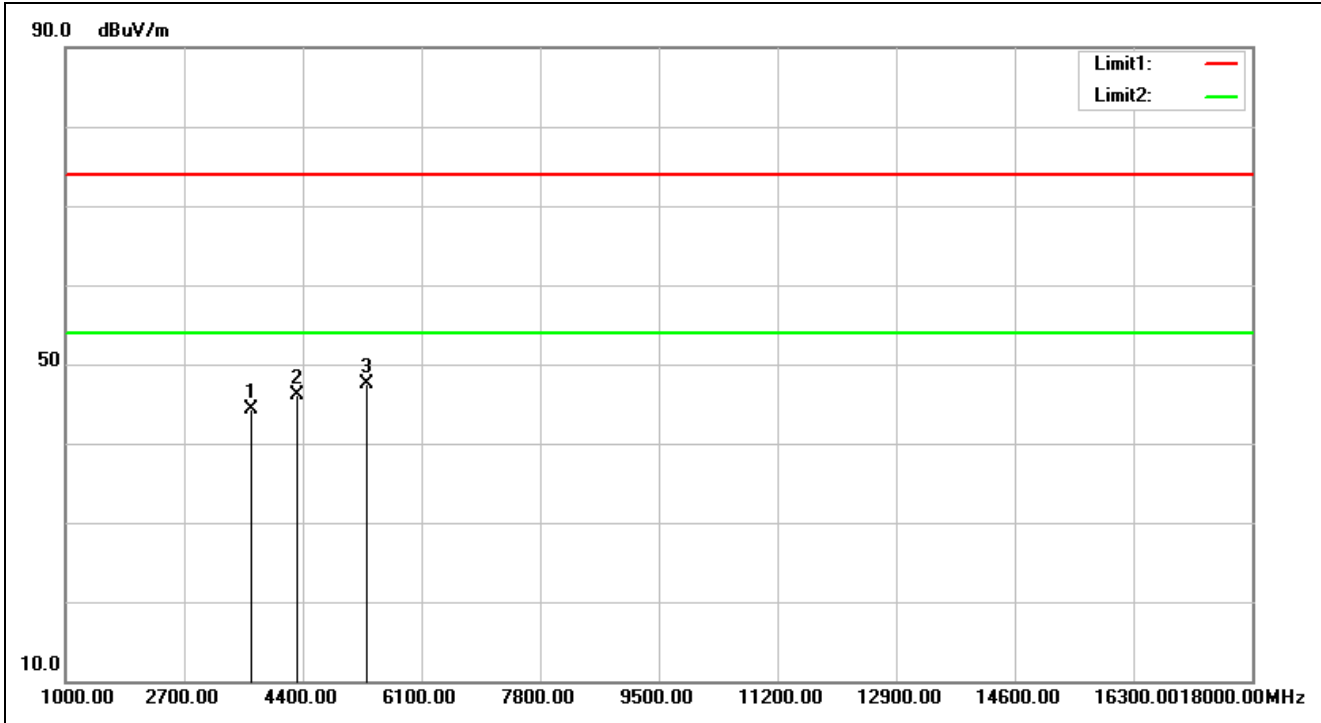
Spurious Emissions, RX Mode, 1-18G



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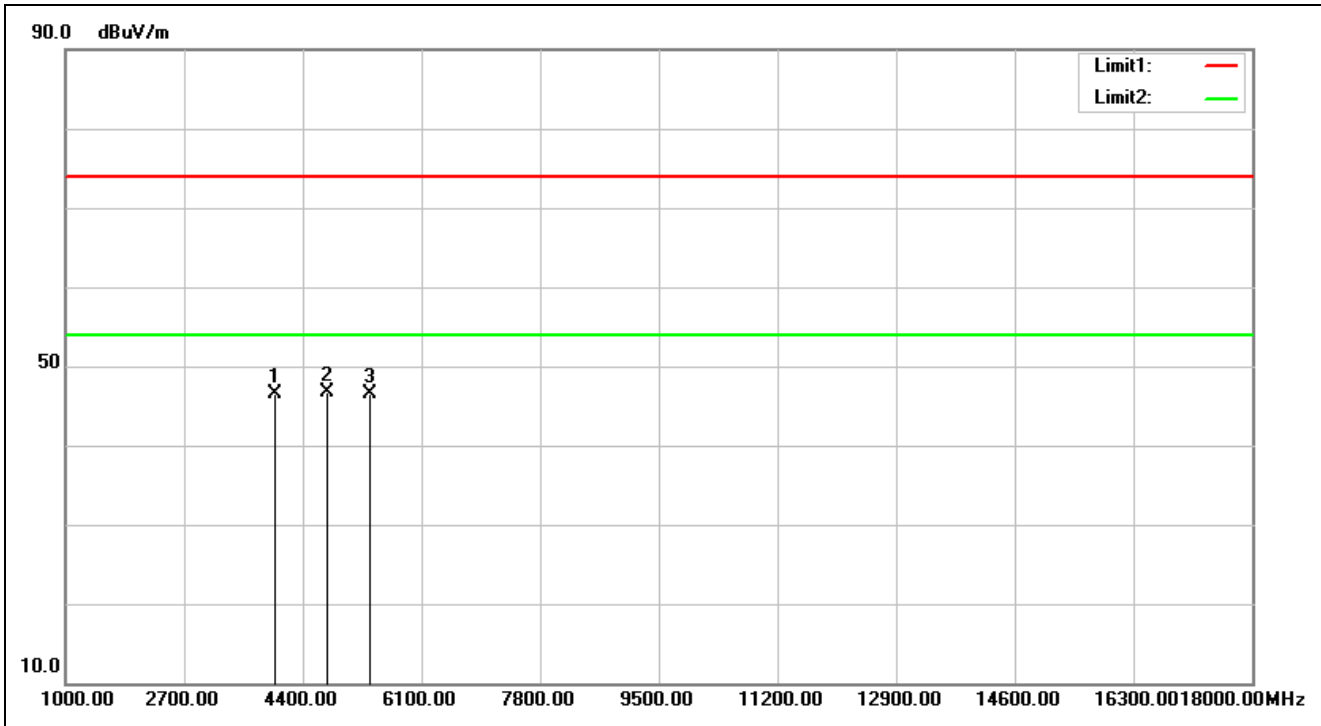
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:28:11
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	3652.000	-6.53	50.91	44.38	74.00	-29.62	peak	100	63	
2	4315.000	-4.57	50.75	46.18	74.00	-27.82	peak	100	128	
3	5318.000	-1.74	49.28	47.54	74.00	-26.46	peak	100	199	

Spurious Emissions, RX Mode, 18-26G



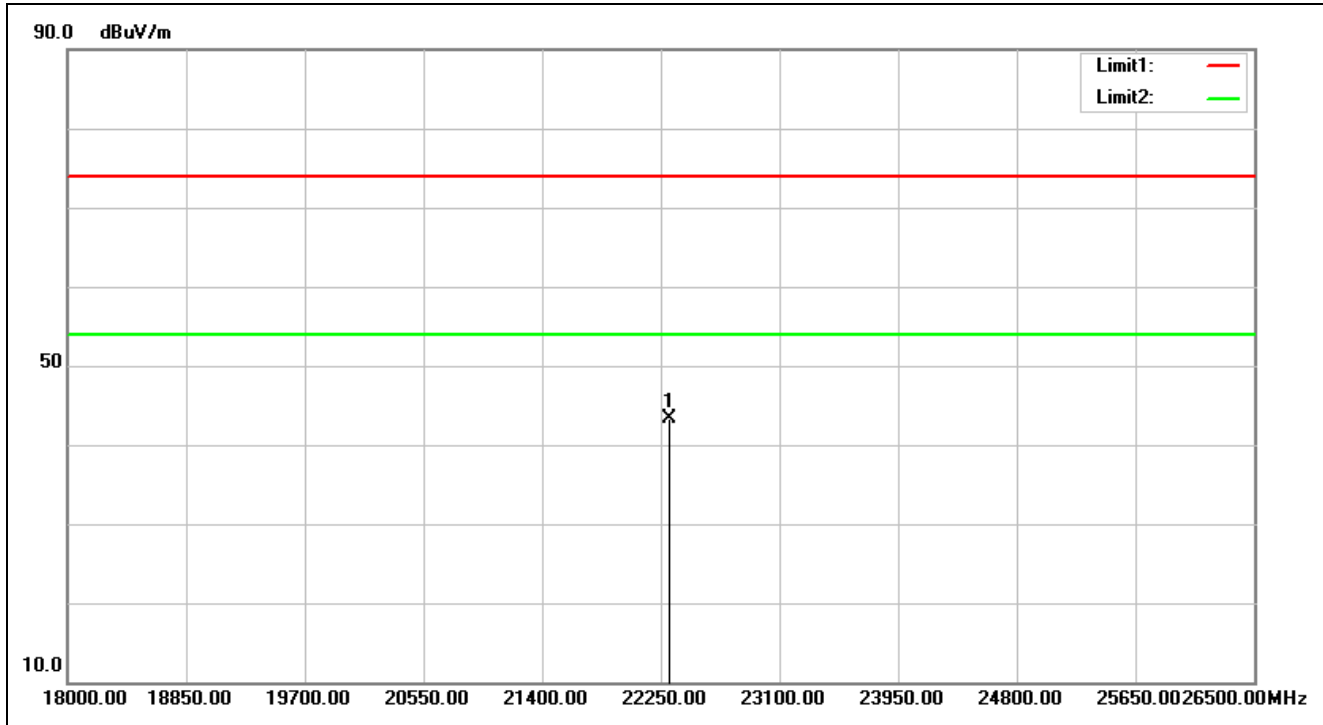
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:29:03
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	3992.000	-5.75	52.22	46.47	74.00	-27.53	peak	100	188	
2	4740.000	-3.54	50.17	46.63	74.00	-27.37	peak	100	106	
3	5369.000	-1.51	48.07	46.56	74.00	-27.44	peak	100	27	

Spurious Emissions, RX Mode, 18-26G

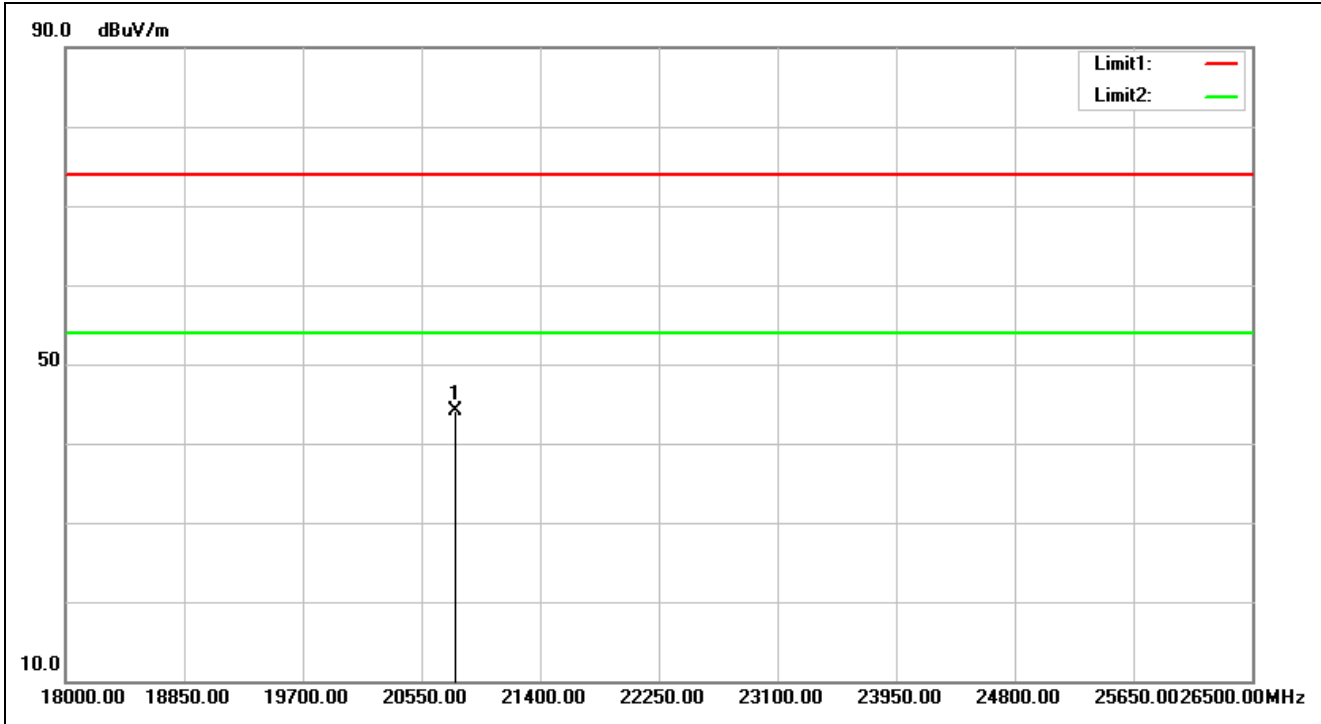


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Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 21:41:12
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	22309.500	4.79	38.50	43.29	74.00	-30.71	peak			



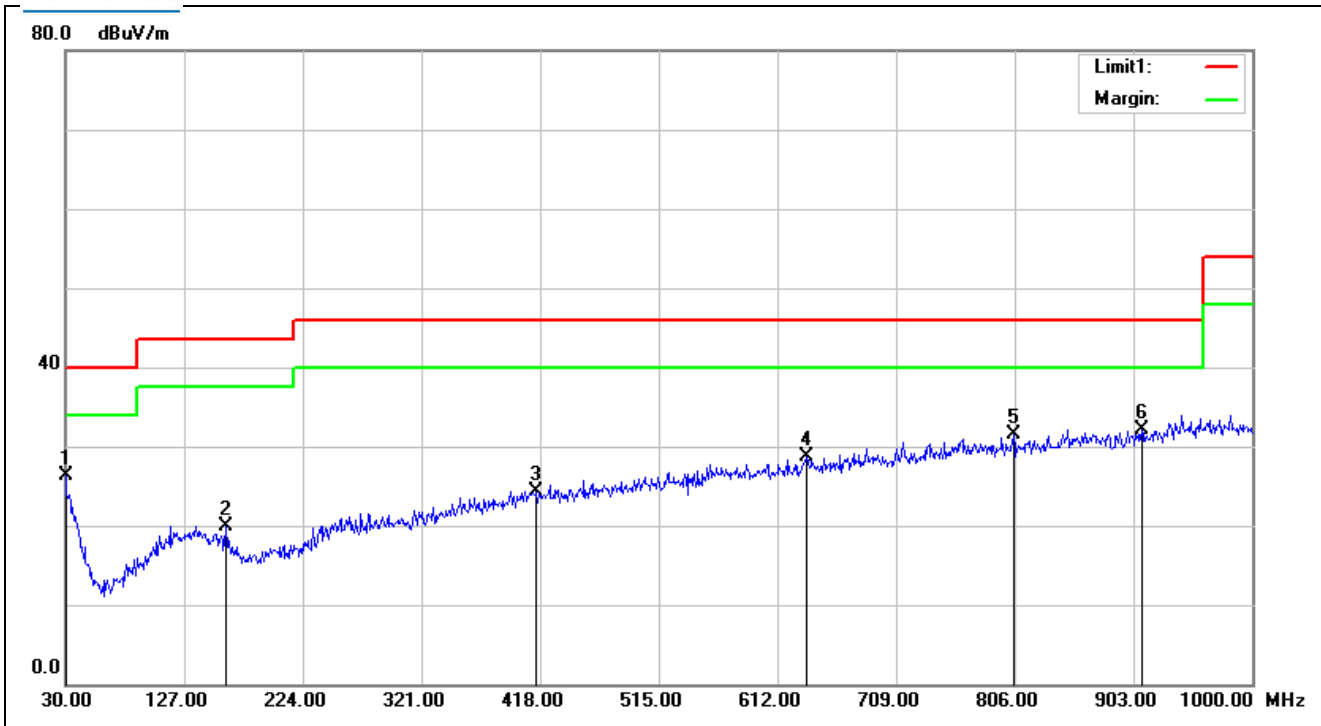
Service No.:	114084462(HyperX Pulsefire Dart)_NCC	Test Distance:	3m
Test Standard:	NCC Above 1G PEAK	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 21:41:19
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	20788.000	4.32	39.78	44.10	74.00	-29.90	peak			

Spurious Emissions, RX Mode, 30M-1G



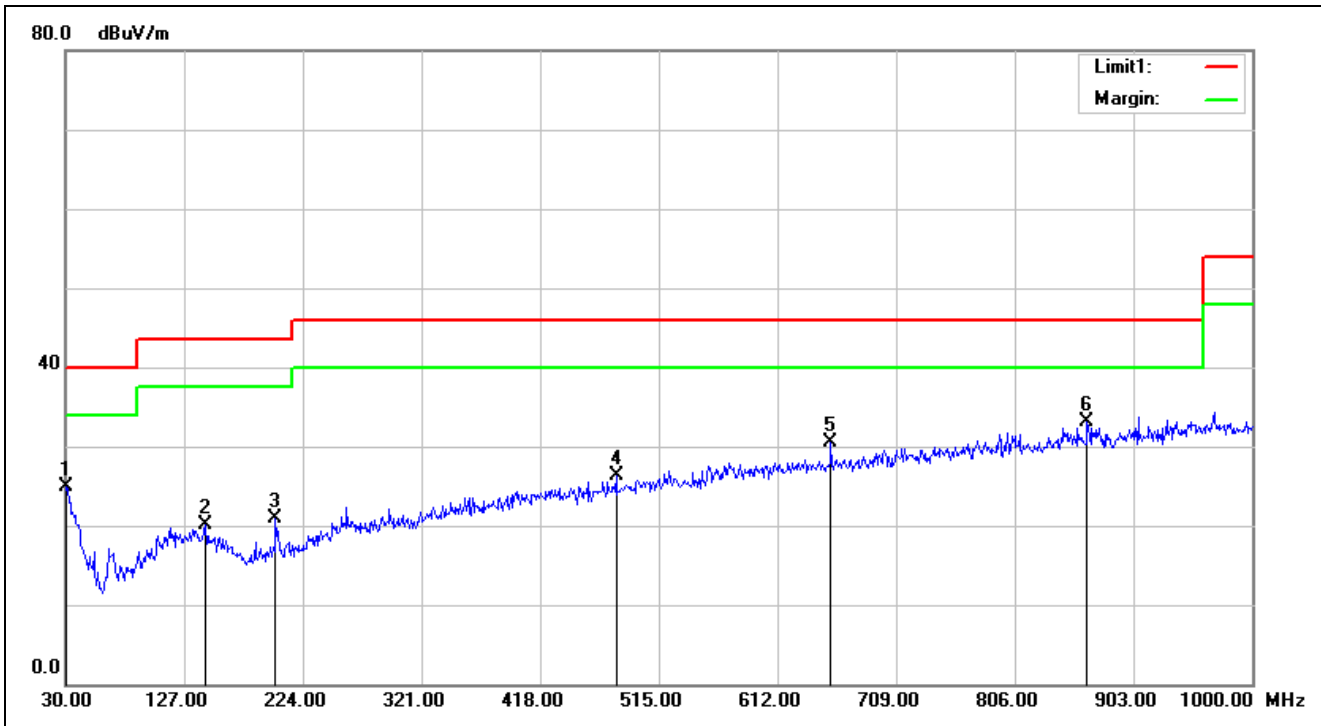
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Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Horizontal
Test item:	Radiation Emission	Test Time:	2018/12/18 22:06:09
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	26.34	26.31	40.00	-13.69	QP	100	19	
2	160.9500	-8.13	28.10	19.97	43.50	-23.53	QP	100	78	
3	415.0899	-1.97	26.36	24.39	46.00	-21.61	QP	100	114	
4	636.2500	0.78	27.98	28.76	46.00	-17.24	QP	100	26	
5	805.0300	3.13	28.37	31.50	46.00	-14.50	QP	100	206	
6	909.7900	4.45	27.59	32.04	46.00	-13.96	QP	100	338	

Spurious Emissions, RX Mode, 30M-1G



Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC Class B 3M Radiation	Ant. Polarization:	Vertical
Test item:	Radiation Emission	Test Time:	2018/12/18 22:07:02
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2441-RX		
Remark:			

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	30.0000	-0.03	24.91	24.88	40.00	-15.12	QP	100	36	
2	144.4600	-7.06	27.13	20.07	43.50	-23.43	QP	100	306	
3	201.6900	-8.76	29.58	20.82	43.50	-22.68	QP	100	29	
4	480.0800	-1.52	27.86	26.34	46.00	-19.66	QP	100	155	
5	655.6500	0.80	29.69	30.49	46.00	-15.51	QP	100	128	
6	865.1700	4.21	28.82	33.03	46.00	-12.97	QP	100	177	

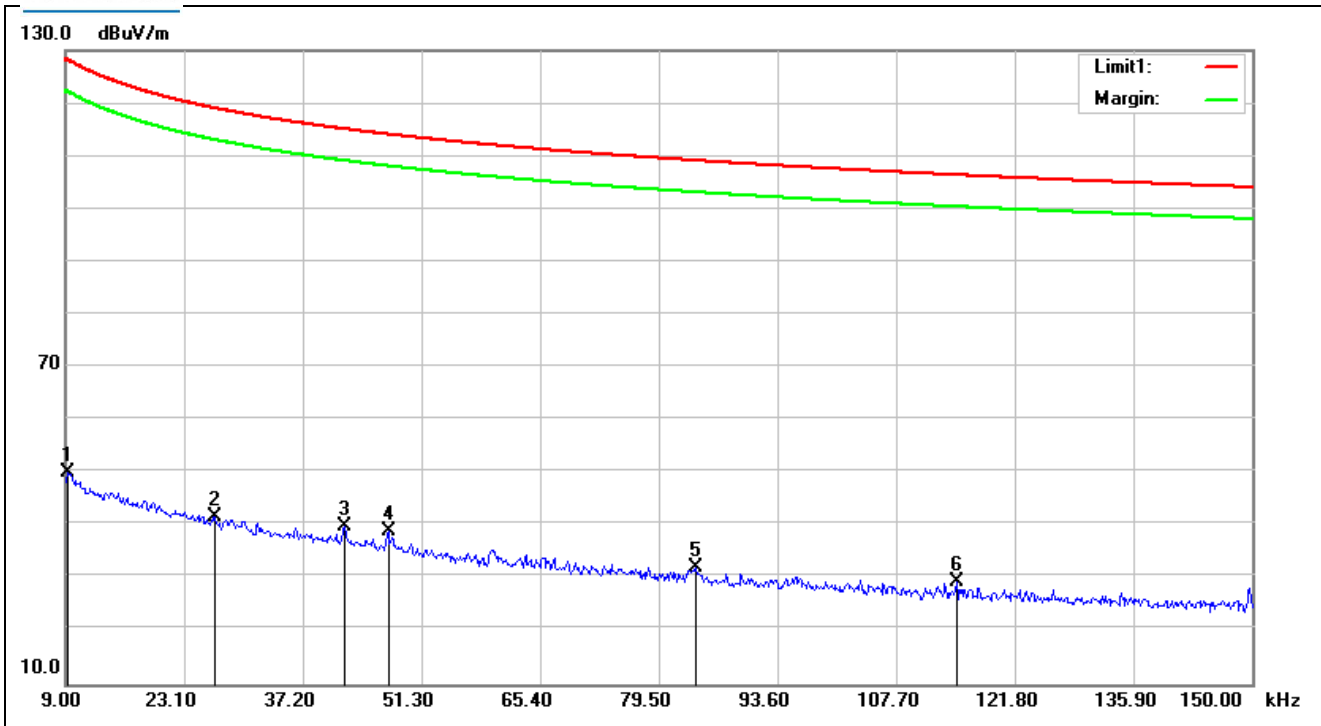
Spurious Emissions, RX Mode, 9K-30M



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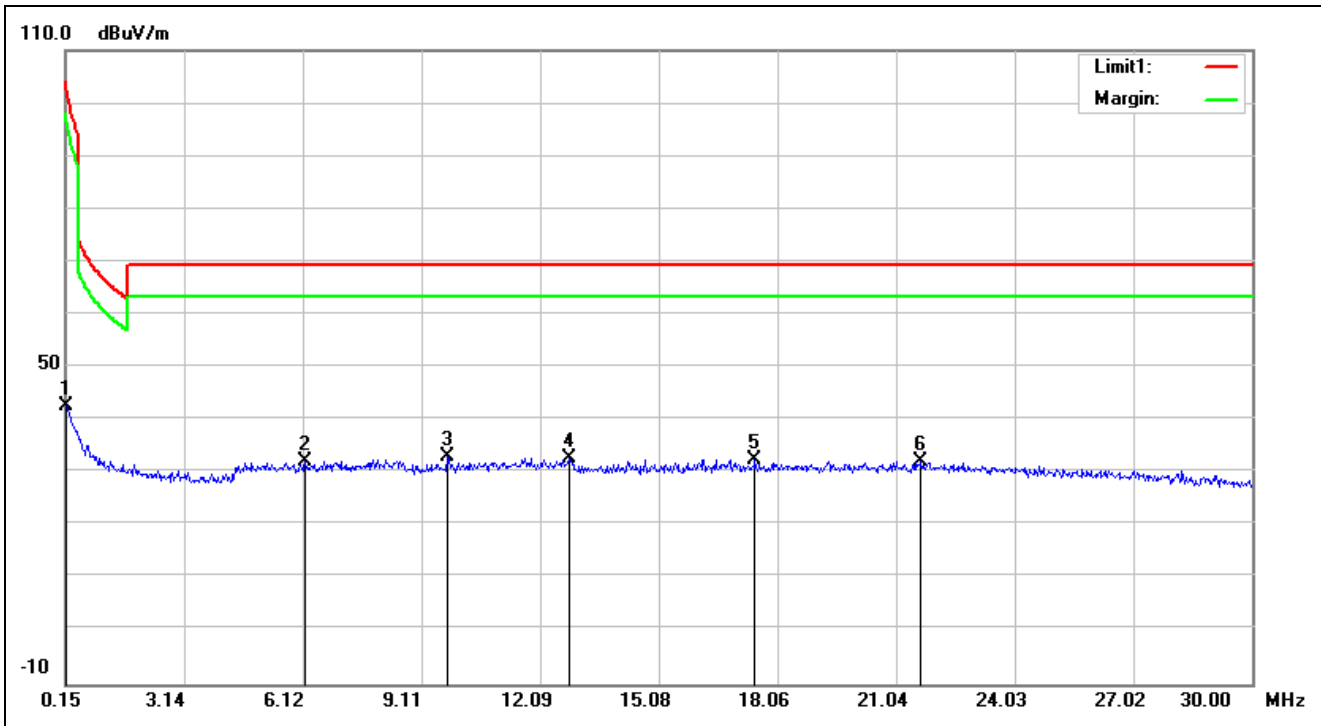
Tel:+886-2172-7000 fax:+886-2528-0018



Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/12/18 22:13:07
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	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	0.0093	18.38	31.64	50.02	128.22	-78.20	QP	100	10	
2	0.0268	19.19	22.58	41.77	119.03	-77.26	QP	100	16	
3	0.0421	19.08	20.77	39.85	115.11	-75.26	QP	100	69	
4	0.0474	18.97	19.92	38.89	114.08	-75.19	QP	100	180	
5	0.0839	18.51	13.68	32.19	109.12	-76.93	QP	100	92	
6	0.1149	18.34	10.93	29.27	106.39	-77.12	QP	100	131	

Spurious Emissions, RX Mode, 30M-1G



Service No.:	114084462(HyperX Pulsefire Dart)_NCC_tmp114084462(HyperX Pulsefire Dart)_NCC_tmp.db	Test Distance:	3m
Test Standard:	NCC2.8_9k-1G_3m	Ant. Polarization:	
Test item:	Radiation Emission	Test Time:	2018/12/18 22:15:39
Applicant:	Kingston	Test Rating:	DC 3V
Product:	HyperX Pulsefire Dart Wireless Gaming Mouse USB Dongle	Temp.(°C)/Hum.(%):	22(°C)/59%
Model No.:	HyperX Pulsefire Dart	Test Engineer:	Curry Chen
Test Mode:	2441-RX		
Remark:			

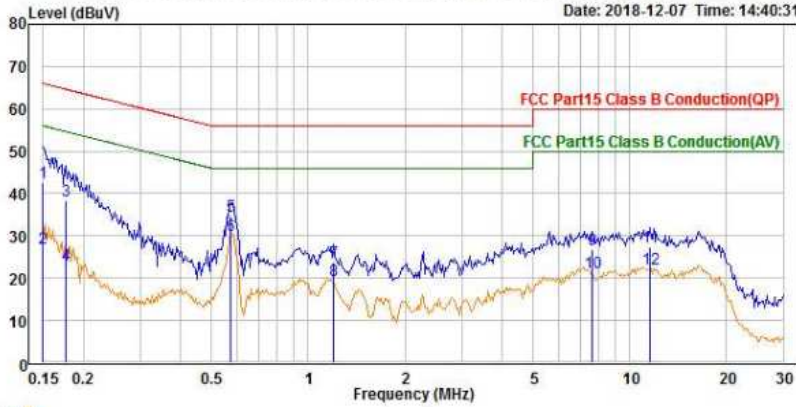
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (°)	Remark
1	0.1799	18.37	24.39	42.76	102.50	-59.74	QP	100	138	
2	6.1797	19.70	12.37	32.07	69.50	-37.43	QP	100	75	
3	9.7617	20.40	12.55	32.95	69.50	-36.55	QP	100	239	
4	12.8064	20.77	11.93	32.70	69.50	-36.80	QP	100	256	
5	17.4929	21.31	11.00	32.31	69.50	-37.19	QP	100	197	
6	21.6719	21.67	10.62	32.29	69.50	-37.21	QP	100	359	

Mains Spurious Emissions



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Date: 2018-12-07 Time: 14:40:31



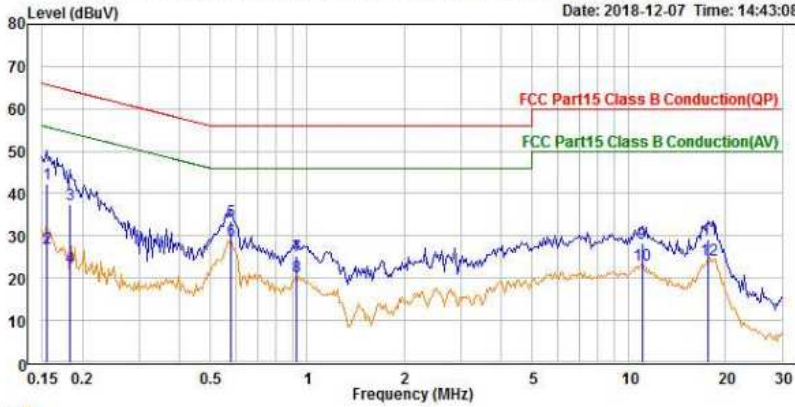
Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) line1
 Test Engineer: Wade Cheng
 Applicant : Kingston
 Product : HyperX Pulsefire Dart Wireless Adapter
 Model No. : TBD
 Test Rating : 120Vac/60Hz
 Temp/Hum : 22.9°C/45%
 Memo : (b) Normal link with extend cable

	Read	Limit	Over		
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB	dBuV	dBuV	dB
1	0.150	33.04	9.68	42.72	66.00 -23.28 QP
2	0.150	17.30	9.68	26.98	56.00 -29.02 Average
3	0.176	28.57	9.68	38.25	64.68 -26.43 QP
4	0.176	13.48	9.68	23.16	54.68 -31.52 Average
5	0.574	24.88	9.69	34.57	56.00 -21.43 QP
6	0.574	20.54	9.69	30.23	46.00 -15.77 Average
7	1.198	13.96	9.70	23.66	56.00 -32.34 QP
8	1.198	9.71	9.70	19.41	46.00 -26.59 Average
9	7.610	16.99	9.81	26.80	60.00 -33.20 QP
10	7.610	11.60	9.81	21.41	50.00 -28.59 Average
11	11.553	17.65	9.84	27.49	60.00 -32.51 QP
12	11.553	12.32	9.84	22.16	50.00 -27.84 Average



File: C:\EMC\Report\2018\Kingston\114084462(TBD)\114084462(TBD)_00003.EMI

Date: 2018-12-07 Time: 14:43:08



Trace: 1
 Site : Conduction room
 Condition : FCC Part15 Class B Conduction(QP) neutral
 Test Engineer: Wade Cheng
 Applicant : Kingston
 Product : HyperX Pulsefire Dart Wireless Adapter
 Model No. : TBD
 Test Rating : 120Vac/60Hz
 Temp/Hum : 22.9°C/45%
 Memo : (b) Normal link with extend cable

	Read	Limit	Over				
Freq	Level	Factor	Level	Line			
MHz	dBuV	dB	dBuV	dB			
1	0.155	32.55	9.68	42.23	65.75	-23.52	QP
2	0.155	17.53	9.68	27.21	55.75	-28.54	Average
3	0.183	27.88	9.68	37.56	64.35	-26.79	QP
4	0.183	12.76	9.68	22.44	54.35	-31.91	Average
5	0.580	23.86	9.68	33.54	56.00	-22.46	QP
6	0.580	19.11	9.68	28.79	46.00	-17.21	Average
7	0.925	15.43	9.70	25.13	56.00	-30.87	QP
8	0.925	10.69	9.70	20.39	46.00	-25.61	Average
9	10.992	18.56	9.84	28.40	60.00	-31.60	QP
10	10.992	13.37	9.84	23.21	50.00	-26.79	Average
11	17.714	19.29	9.89	29.18	60.00	-30.82	QP
12	17.714	14.32	9.89	24.21	50.00	-25.79	Average