

Test Report No.50259612 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50259612 001 AppendixD)

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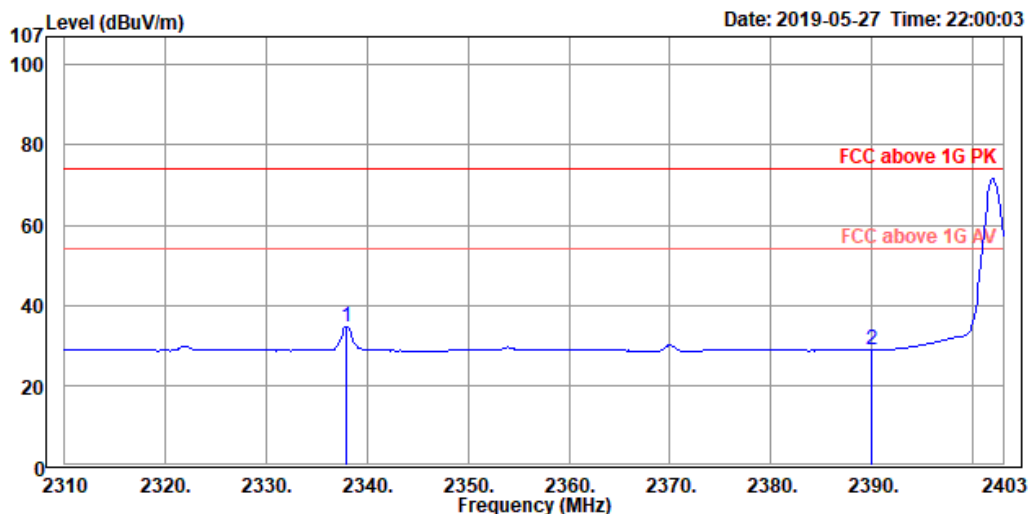
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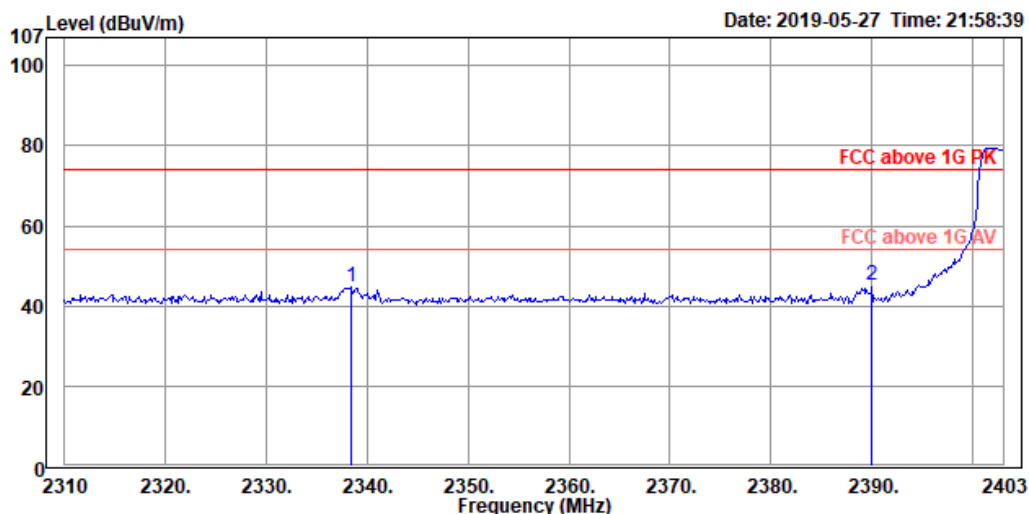


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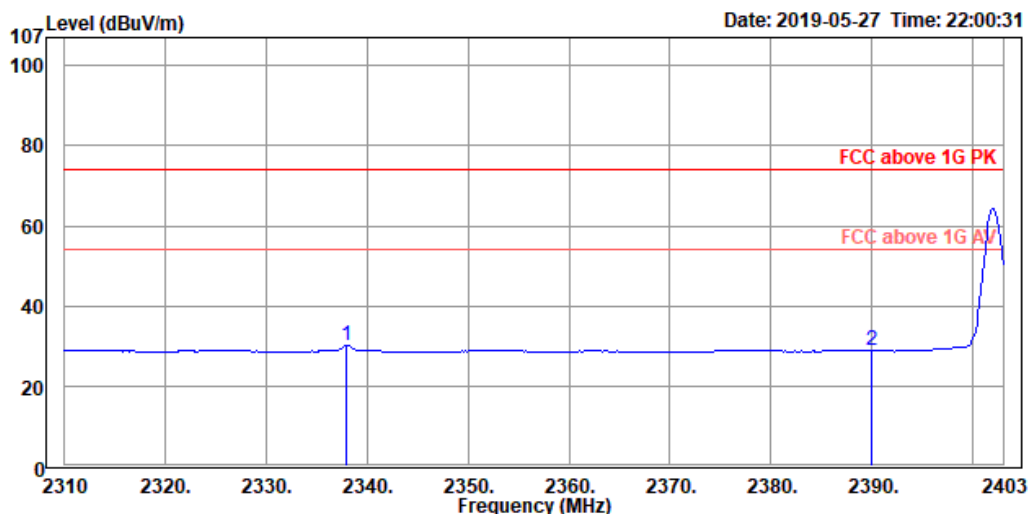
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBUV/m	dBuV	dB/m	dBUV/m	dB	cm	deg		
1	2337.900	34.65	42.76	-8.11	54.00	-19.35	107	256	Average	
2	2390.000	29.02	37.12	-8.10	54.00	-24.98	107	256	Average	



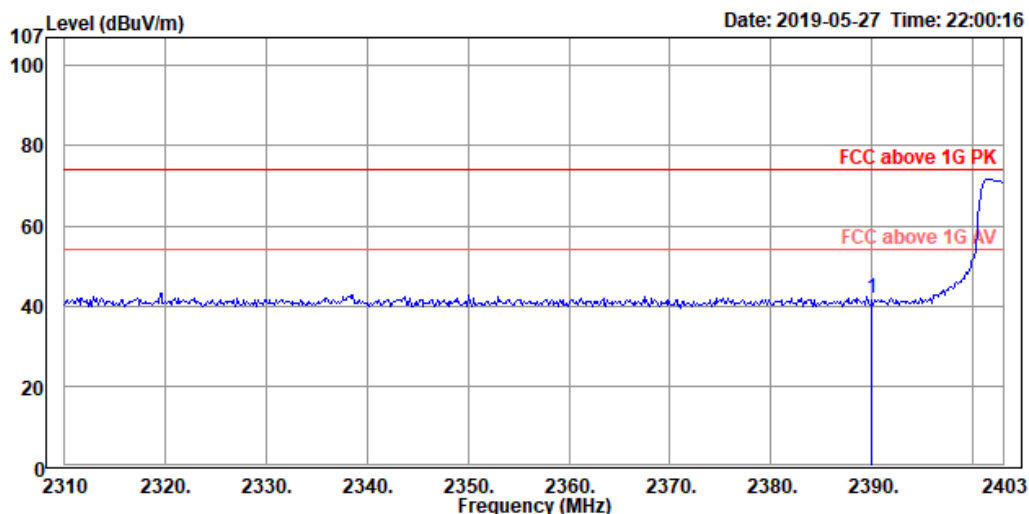
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2338.439	44.80	52.92	-8.12	74.00	-29.20	107	256	Peak	
2	2390.000	45.09	53.19	-8.10	74.00	-28.91	107	256	Peak	



Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2337.900	30.09	38.20	-8.11	54.00	-23.91	100	33	Average	
2	2390.000	28.89	36.99	-8.10	54.00	-25.11	100	33	Average	



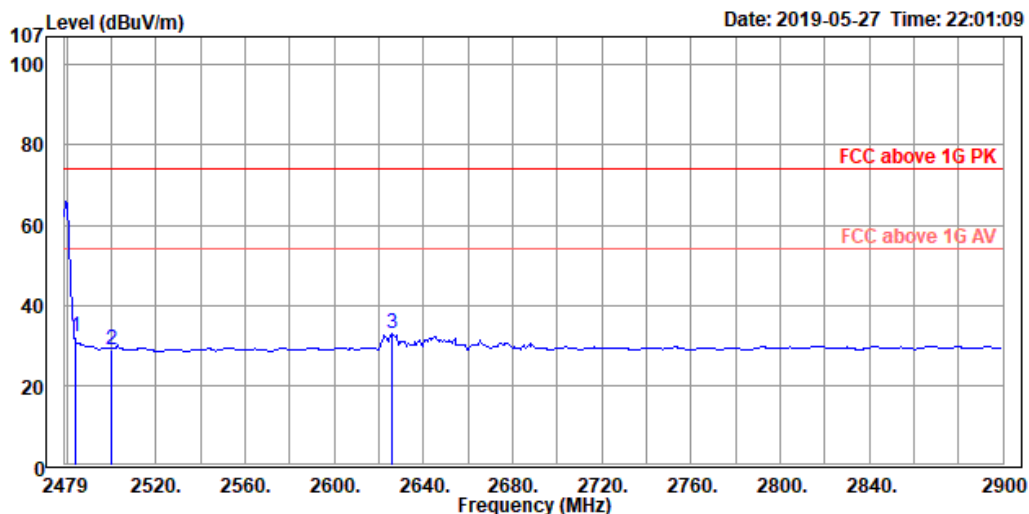
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2390.000	42.04	50.14	-8.10	74.00	-31.96	100	33	Peak	

Radiated Bandedge (GFSK), High Channel

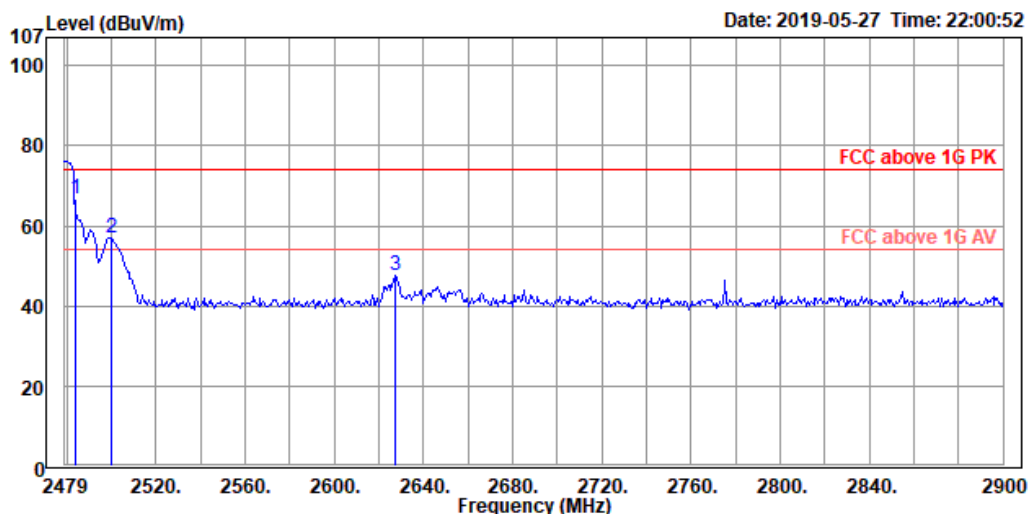


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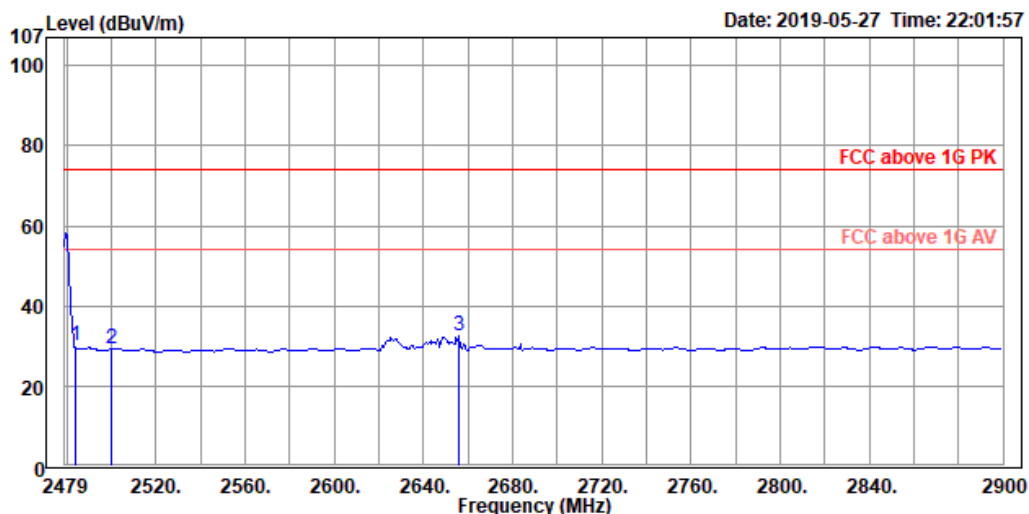
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2483.500	32.32	40.41	-8.09	54.00	-21.68	100	287	Average	
2	2500.000	29.03	37.12	-8.09	54.00	-24.97	100	287	Average	
3	2626.045	33.15	41.03	-7.88	54.00	-20.85	100	287	Average	



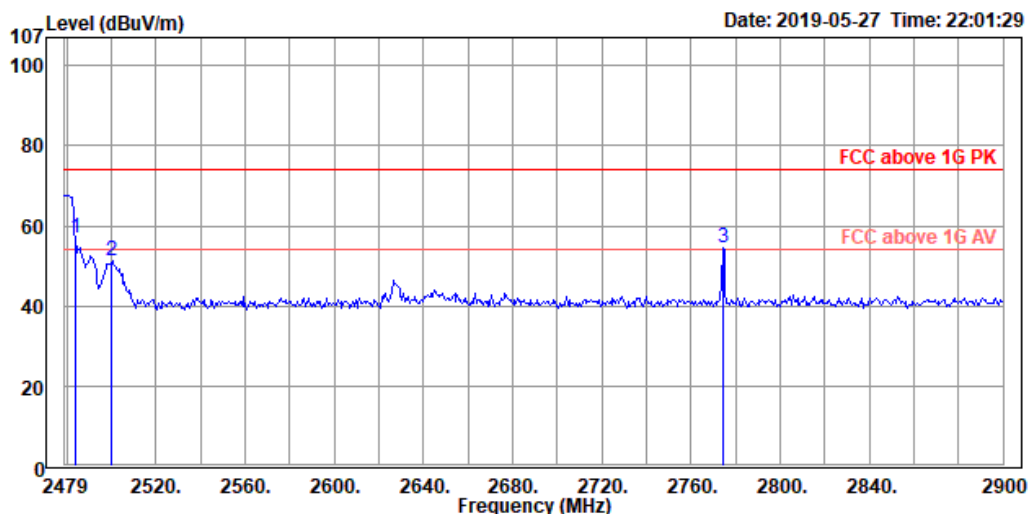
Site : 966A Chamber A
Condition : FCC above 1G PK 3m Horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2483.500	66.54	74.63	-8.09	74.00	-7.46	100	287	Peak	
2	2500.000	56.98	65.07	-8.09	74.00	-17.02	100	287	Peak	
3	2627.265	47.68	55.56	-7.88	74.00	-26.32	100	287	Peak	



Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2483.500	30.12	38.21	-8.09	54.00	-23.88	100	58	Average	
2	2500.000	29.25	37.34	-8.09	54.00	-24.75	100	58	Average	
3	2655.942	32.38	40.21	-7.83	54.00	-21.62	100	58	Average	



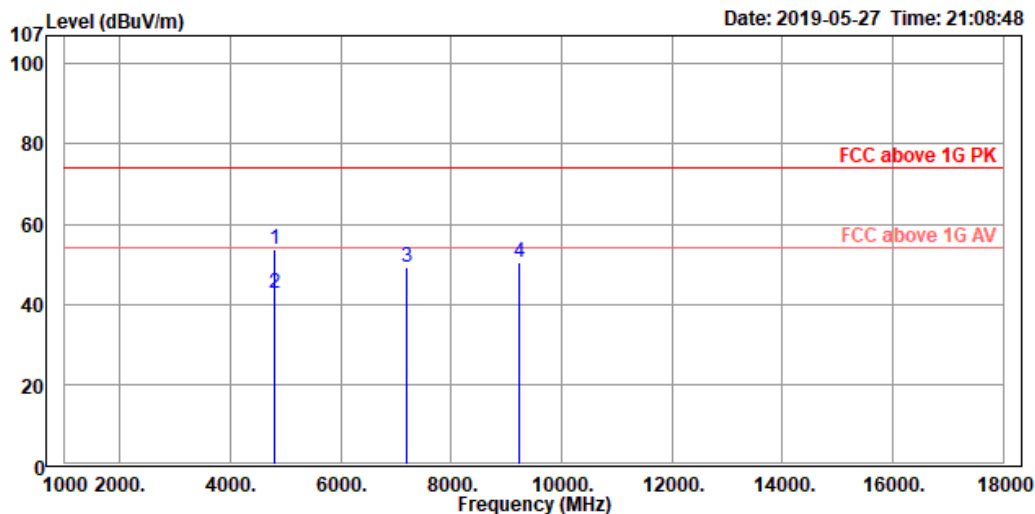
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2483.500	56.99	65.08	-8.09	74.00	-17.01	100	58	Peak	
2	2500.000	51.09	59.18	-8.09	74.00	-22.91	100	58	Peak	
3	2774.310	54.64	62.27	-7.63	74.00	-19.36	100	58	Peak	

Spurious Emissions, TX Mode, 1-18G

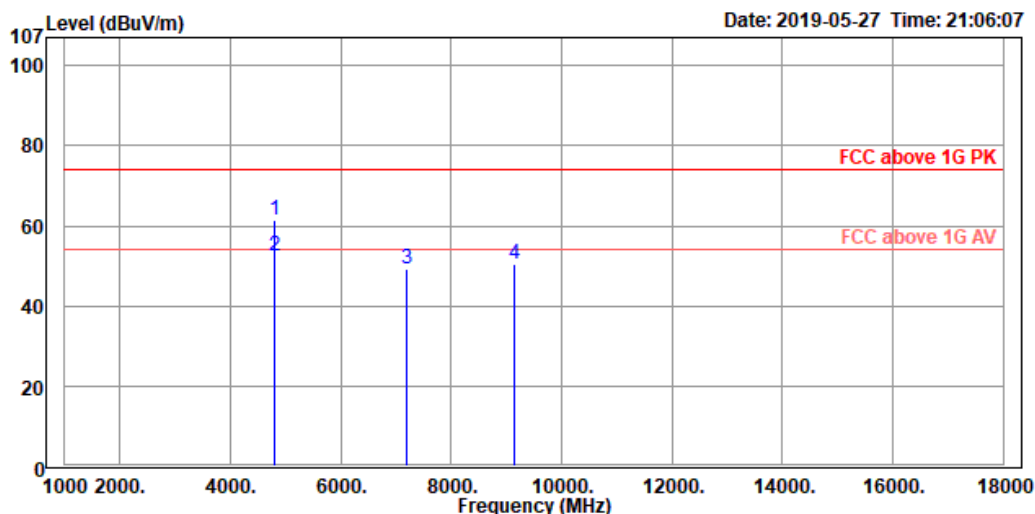


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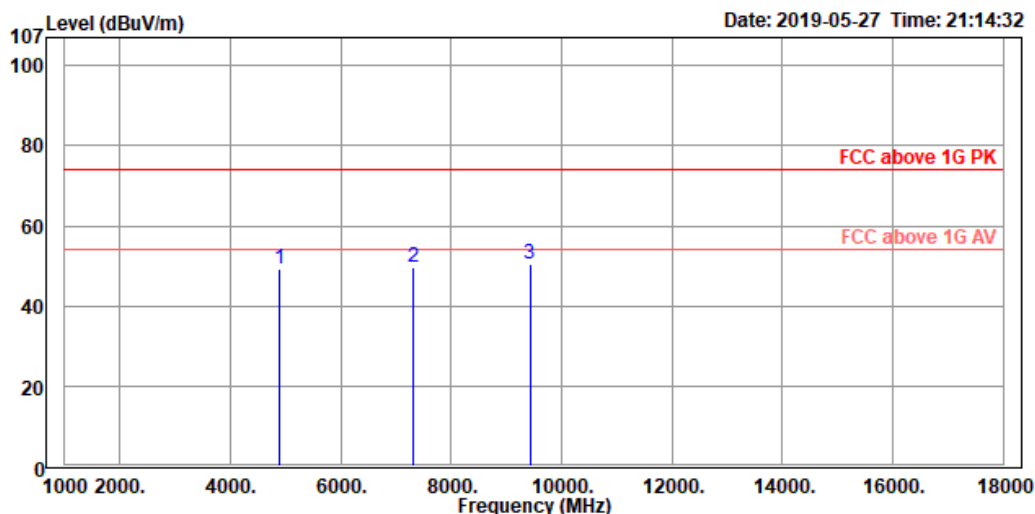
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.000	53.64	56.28	-2.64	74.00	-20.36	100	225	Peak	
2	4804.000	42.58	45.22	-2.64	54.00	-11.42	100	225	Average	
3	7206.000	49.33	44.07	5.26	74.00	-24.67	100	292	Peak	
4	9228.985	50.49	43.98	6.51	74.00	-23.51	100	332	Peak	



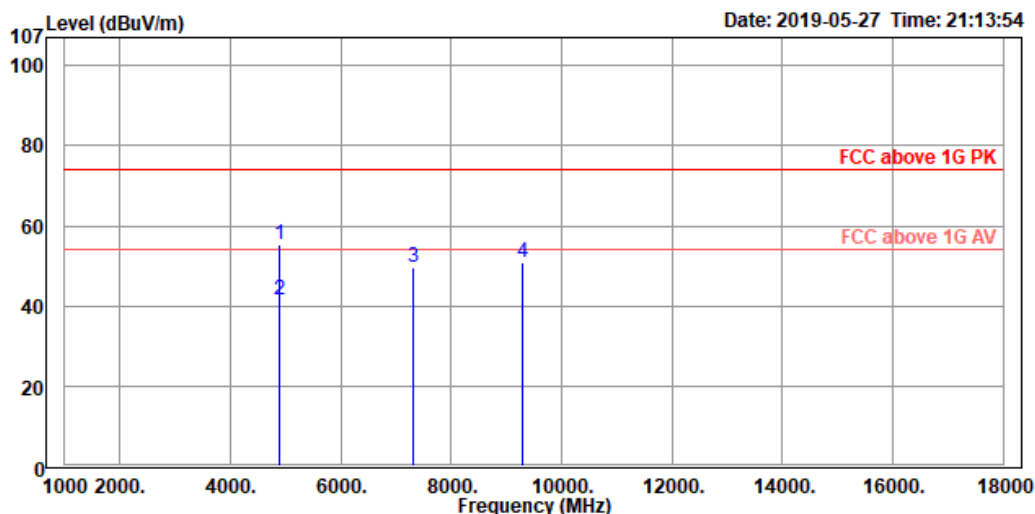
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.000	61.33	63.97	-2.64	74.00	-12.67	100	193	Peak	
2	4804.000	52.38	55.02	-2.64	54.00	-1.62	100	193	Average	
3	7206.000	49.06	43.80	5.26	74.00	-24.94	100	13	Peak	
4	9155.072	50.32	43.78	6.54	74.00	-23.68	100	277	Peak	



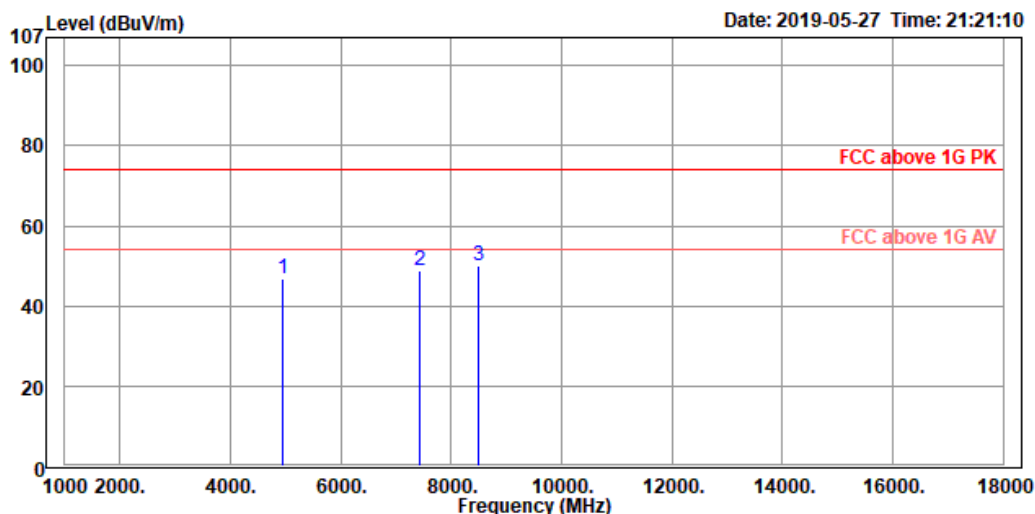
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.000	49.17	51.62	-2.45	74.00	-24.83	100	252	Peak	
2	7320.000	49.50	43.96	5.54	74.00	-24.50	100	279	Peak	
3	9426.087	50.33	43.91	6.42	74.00	-23.67	100	344	Peak	



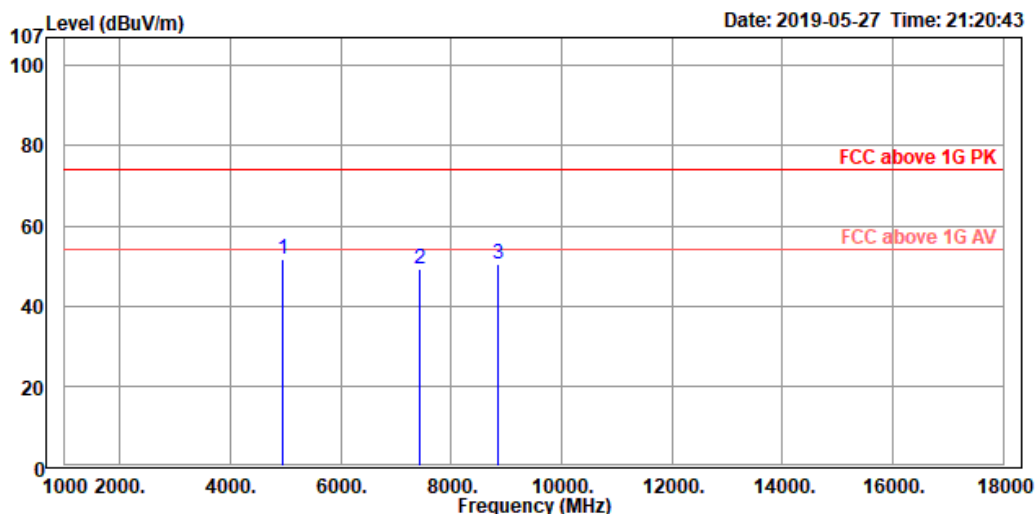
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4880.000	55.20	57.65	-2.45	74.00	-18.80	100	184	Peak	
2	4880.000	41.37	43.82	-2.45	54.00	-12.63	100	184	Average	
3	7320.000	49.68	44.14	5.54	74.00	-24.32	100	124	Peak	
4	9302.898	50.68	44.21	6.47	74.00	-23.32	100	311	Peak	



Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4960.000	46.69	48.94	-2.25	74.00	-27.31	100	251	Peak	
2	7440.000	49.00	43.17	5.83	74.00	-25.00	100	49	Peak	
3	8489.855	49.85	43.25	6.60	74.00	-24.15	100	15	Peak	



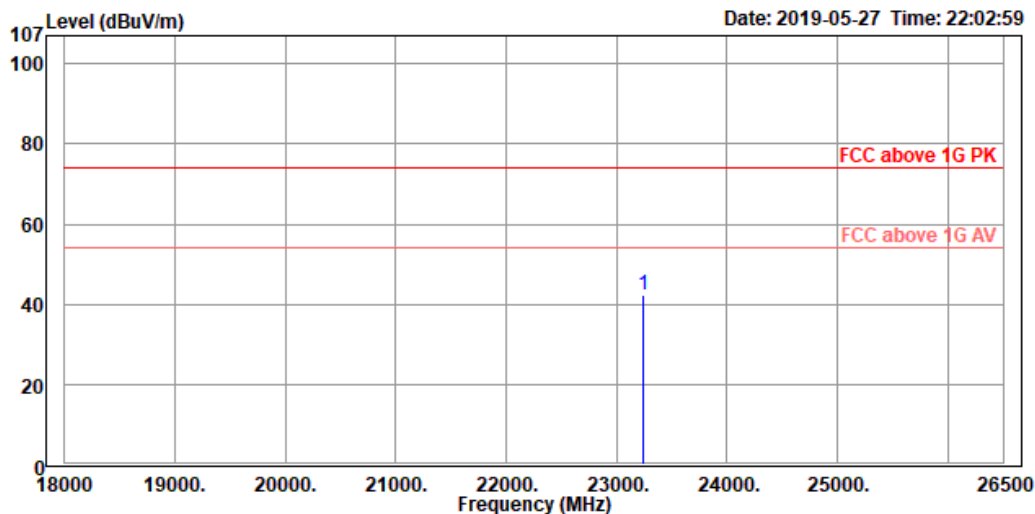
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4960.000	51.60	53.85	-2.25	74.00	-22.40	100	198	Peak	
2	7440.000	49.18	43.35	5.83	74.00	-24.82	100	87	Peak	
3	8859.420	50.25	43.63	6.62	74.00	-23.75	100	164	Peak	

Spurious Emissions, TX Mode, 18-26G

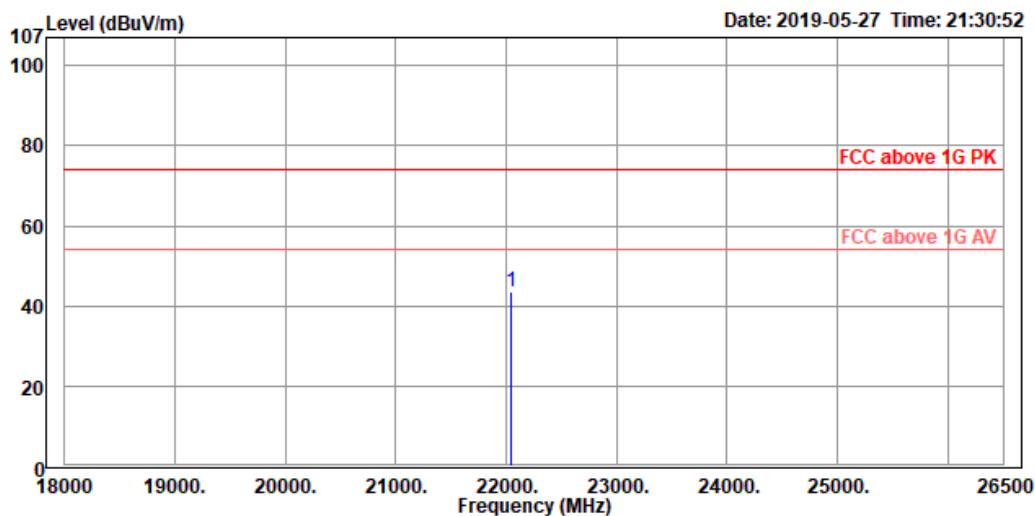


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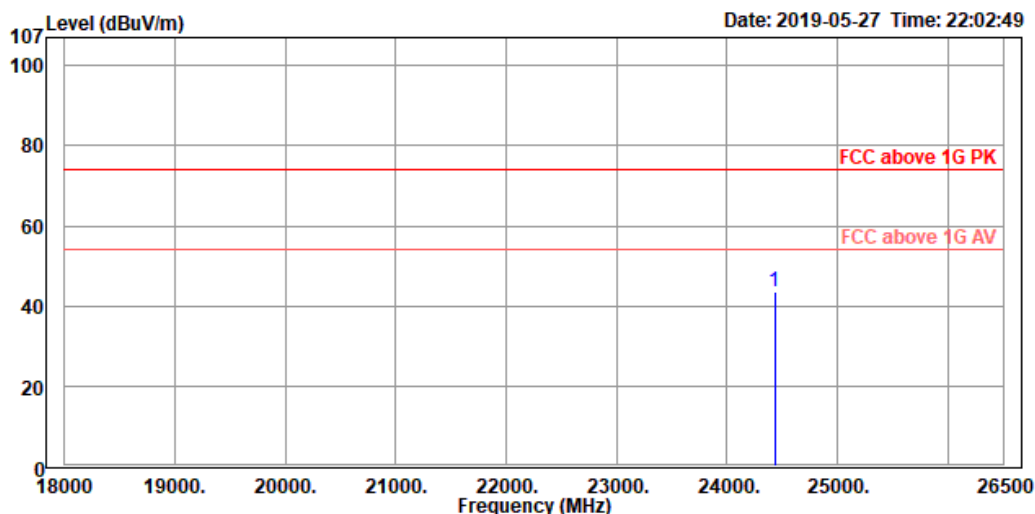
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	23235.510	42.51	37.28	5.23	74.00	-31.49	119	246	Peak	



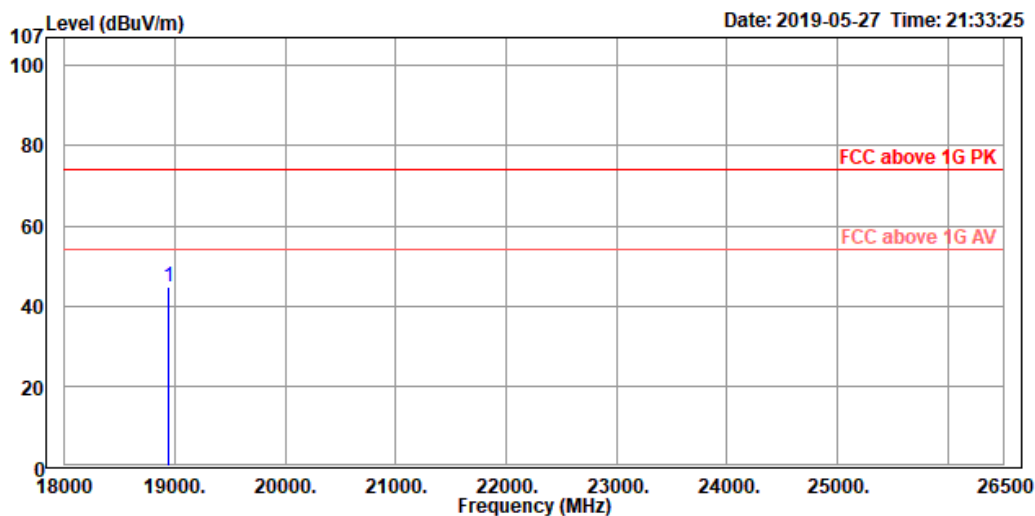
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2402
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	22040.580	43.57	39.14	4.43	74.00	-30.43	100	200	Peak	



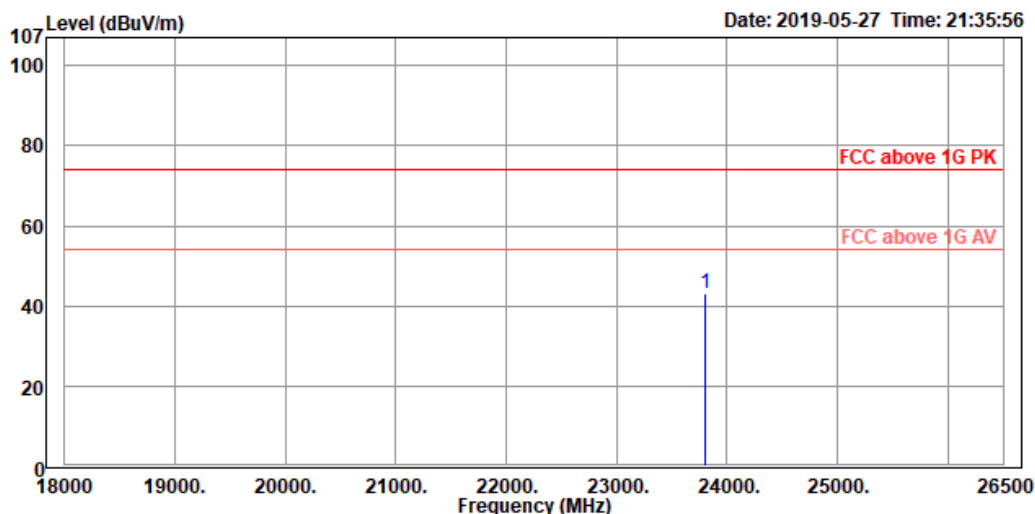
Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	24430.440	43.61	38.46	5.15	74.00	-30.39	121	11	Peak	



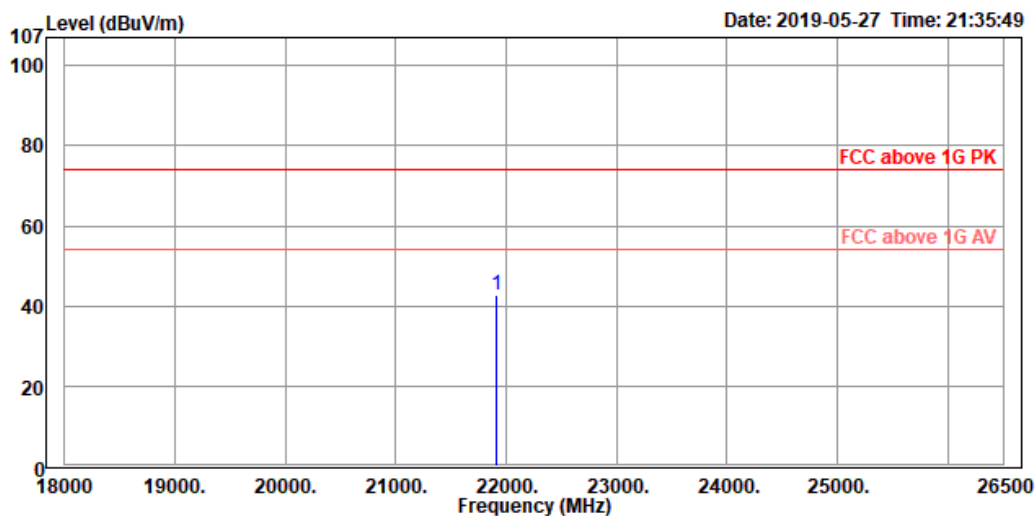
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	18936.230	44.61	40.79	3.82	74.00	-29.39	100	180	Peak	



Site : 966A Chamber A
Condition : FCC above 1G PK 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	23802.170	43.26	37.99	5.27	74.00	-30.74	100		0 Peak	



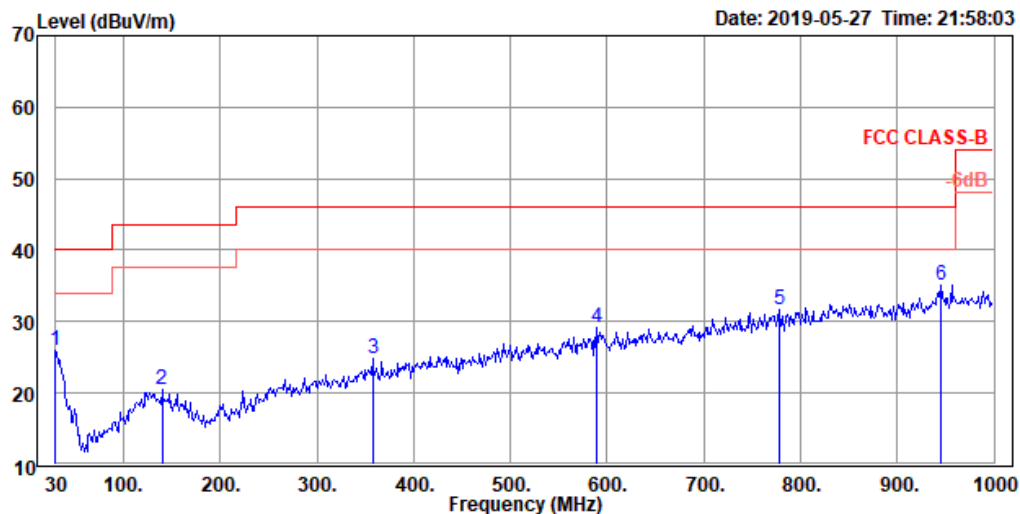
Site : 966A Chamber A
Condition : FCC above 1G PK 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2480
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	21905.070	42.75	38.41	4.34	74.00	-31.25	100	349	Peak	

Spurious Emissions, TX Mode, 30M-1G

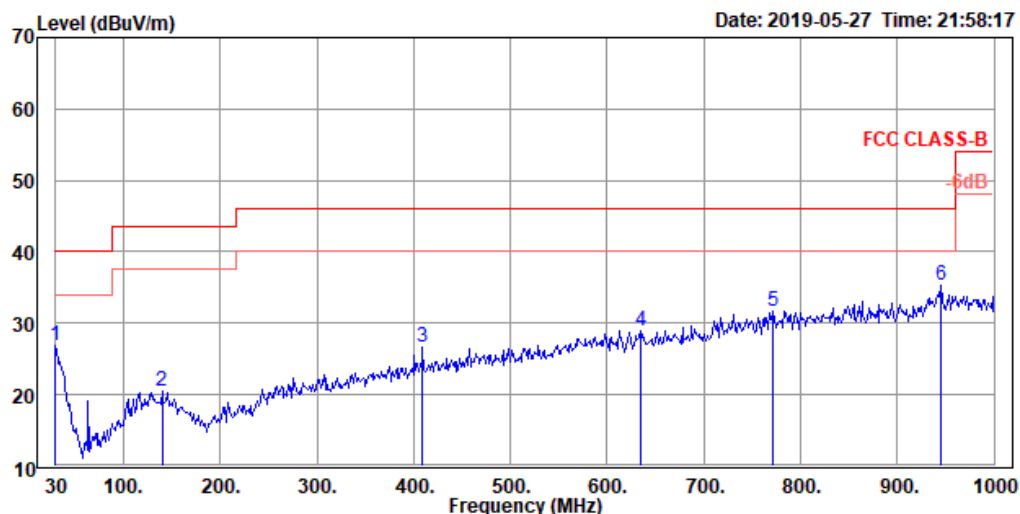


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Site : 966A Chamber A
Condition : FCC CLASS-B 3m horizontal
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	30.000	25.99	26.02	-0.03	40.00	-14.01	100	199	QP	
2	139.652	20.44	27.44	-7.00	43.50	-23.06	114	156	QP	
3	357.551	24.80	27.97	-3.17	46.00	-21.20	100	13	QP	
4	589.507	29.06	28.92	0.14	46.00	-16.94	100	142	QP	
5	777.884	31.68	28.86	2.82	46.00	-14.32	129	148	QP	
6	945.174	35.10	29.61	5.49	46.00	-10.90	100	303	QP	



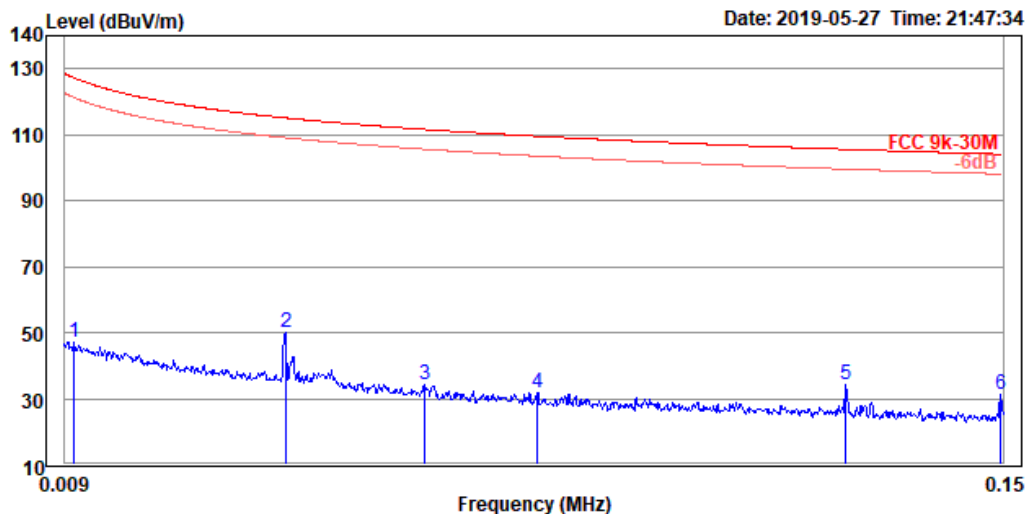
Site : 966A Chamber A
Condition : FCC CLASS-B 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	30.000	26.92	26.95	-0.03	40.00	-13.08	100	278	QP	
2	139.652	20.43	27.43	-7.00	43.50	-23.07	106	296	QP	
3	409.565	26.58	28.64	-2.06	46.00	-19.42	100	150	QP	
4	634.493	29.04	28.28	0.76	46.00	-16.96	100	48	QP	
5	772.261	31.67	28.92	2.75	46.00	-14.33	112	58	QP	
6	945.174	35.42	29.93	5.49	46.00	-10.58	100	78	QP	

Spurious Emissions, TX Mode, 9k-30M

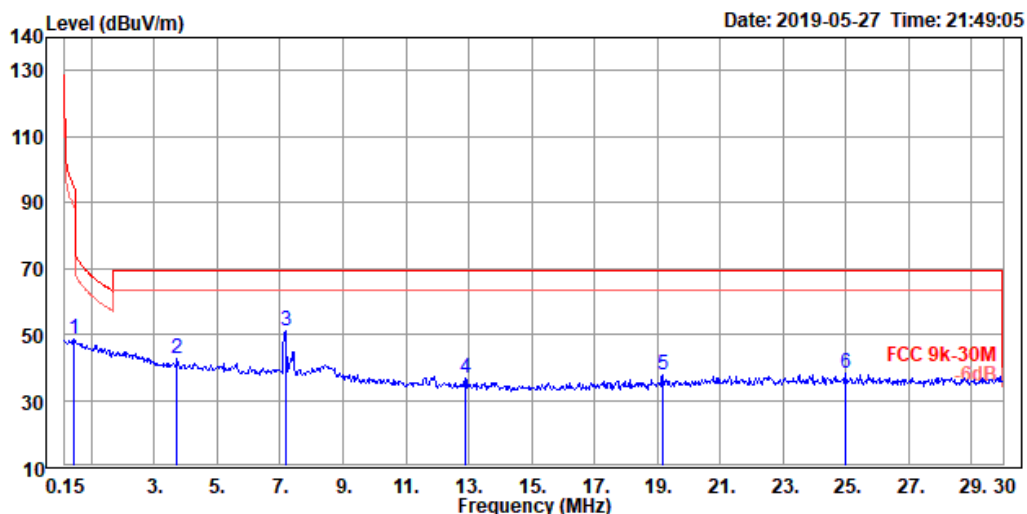


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Site : 966A Chamber A
Condition : FCC 9k-30M 3m vertical
Test Engineer: Kevin Kuo
Applicant : NANOSECOND TECHNOLOGY CO.,LTD
Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.010	47.29	28.75	18.54	127.24	-79.95	100	20	QP	
2	0.042	49.91	30.83	19.08	115.10	-65.19	100	104	QP	
3	0.063	34.37	15.61	18.76	111.59	-77.22	100	35	QP	
4	0.080	31.68	13.12	18.56	109.53	-77.85	100	118	QP	
5	0.126	34.10	15.76	18.34	105.56	-71.46	100	130	QP	
6	0.150	31.14	12.79	18.35	104.09	-72.95	100	29	QP	



Site : 966A Chamber A
Condition : FCC 9k-30M 3m vertical
Test Engineer: Kevin Kuo
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Product : NSD SPINNER/POWERBALL
Model No. : PB-700BT
Test Rating : 5.6Vdc
Tmp/Hum : 23 °C / 54 %
Power Setting: default
Mode : TX-2440
Memo : (Y-橫躺)

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.419	48.38	29.81	18.57	95.17	-46.79	100	98	QP	
2	3.732	42.77	23.90	18.87	69.50	-26.73	100	233	QP	
3	7.165	50.87	30.98	19.89	69.50	-18.63	100	107	QP	
4	12.896	36.53	15.75	20.78	69.50	-32.97	100	236	QP	
5	19.164	37.89	16.38	21.51	69.50	-31.61	100	308	QP	
6	25.015	38.20	16.41	21.79	69.50	-31.30	100	224	QP	