

Test Report No.50274640 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50274640 001 AppendixD)

Contents

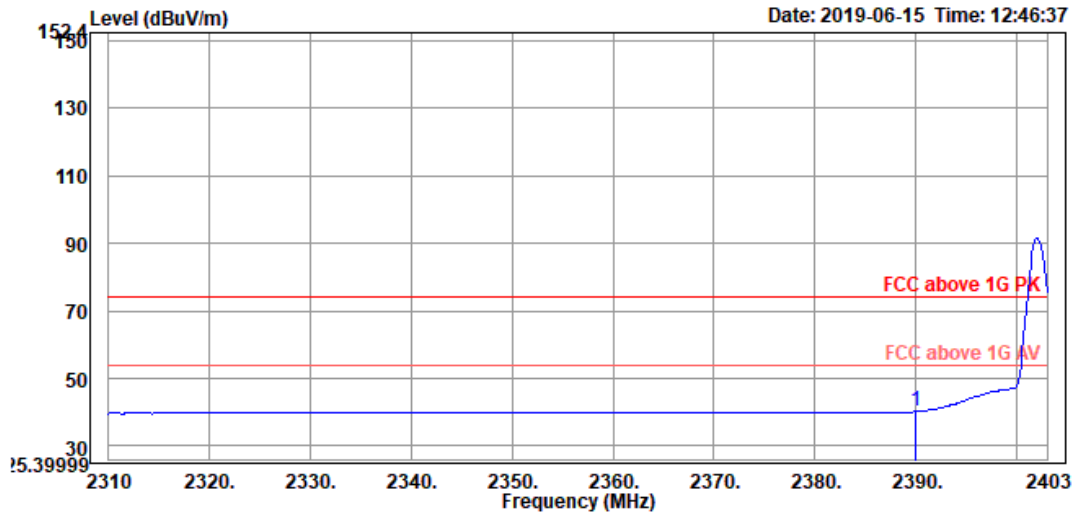
Spurious Emissions, Band Edges, 2.35-2.5G 3
Spurious Emissions, TX Mode, 1-18G..... 11
Spurious Emissions, TX Mode, 18-26G..... 17
Spurious Emissions, TX Mode, 30M-1G 23
Spurious Emissions, TX Mode, 9k-30M 25

Spurious Emissions, Band Edges, 2.35-2.5G

Radiated Bandedge (GFSK), Low Channel

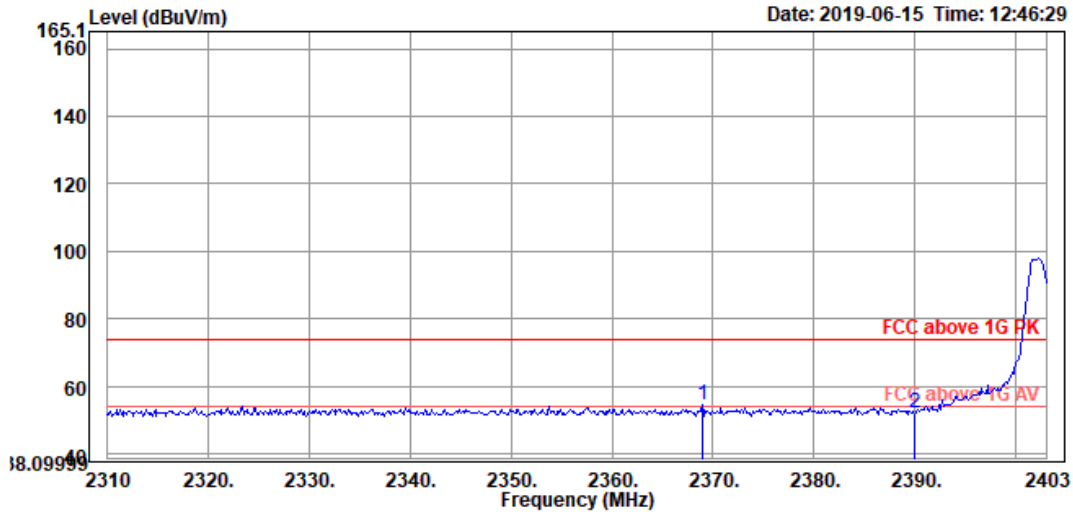


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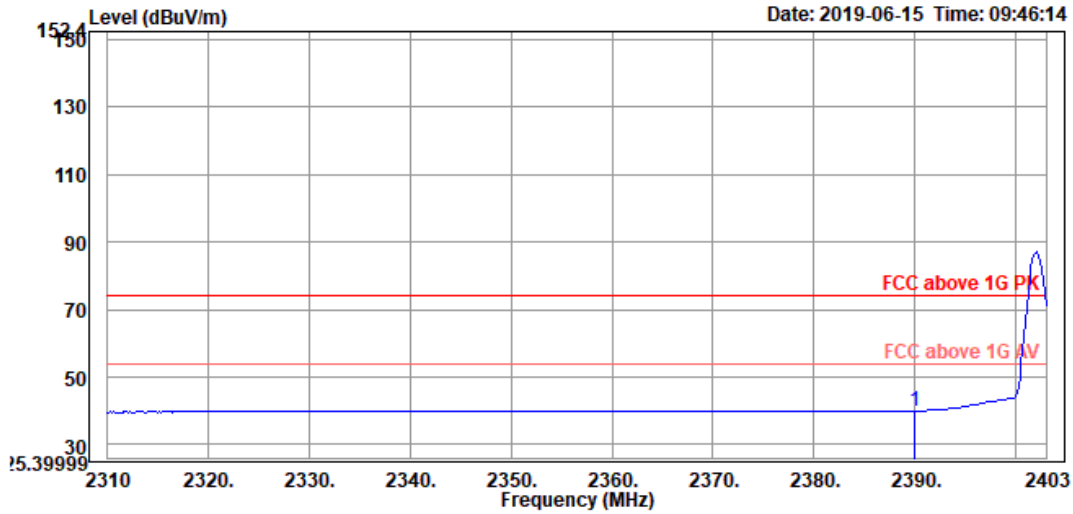
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Read		Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit		Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 2390.000	48.49	-8.20	40.29	54.00	-13.71	102	17 Average	



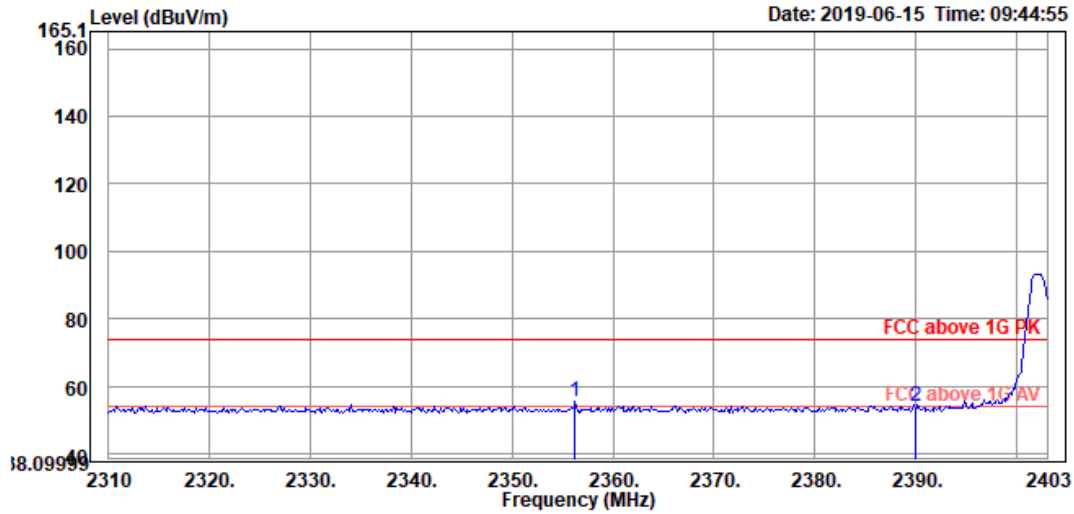
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2368.900	62.78	-8.28	54.50	74.00	-19.50	102	17	Peak	
2	2390.000	60.12	-8.20	51.92	74.00	-22.08	102	17	Peak	



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2390.000	48.23	-8.20	40.03	54.00	-13.97	100	185	Average	



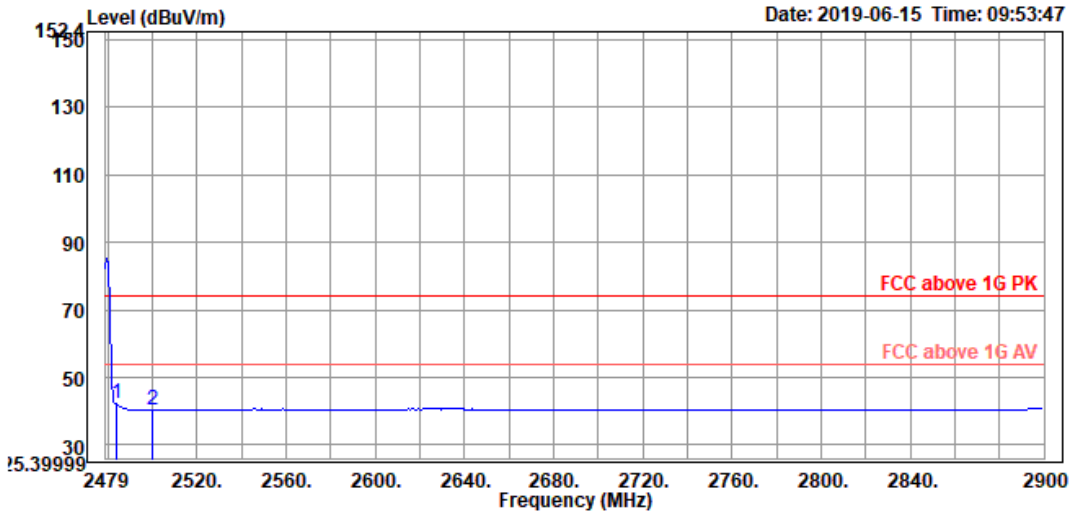
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2356.230	63.71	-8.33	55.38	74.00	-18.62	100 185 Peak
2	2390.000	62.05	-8.20	53.85	74.00	-20.15	100 185 Peak

Radiated Bandedge (GFSK), High Channel

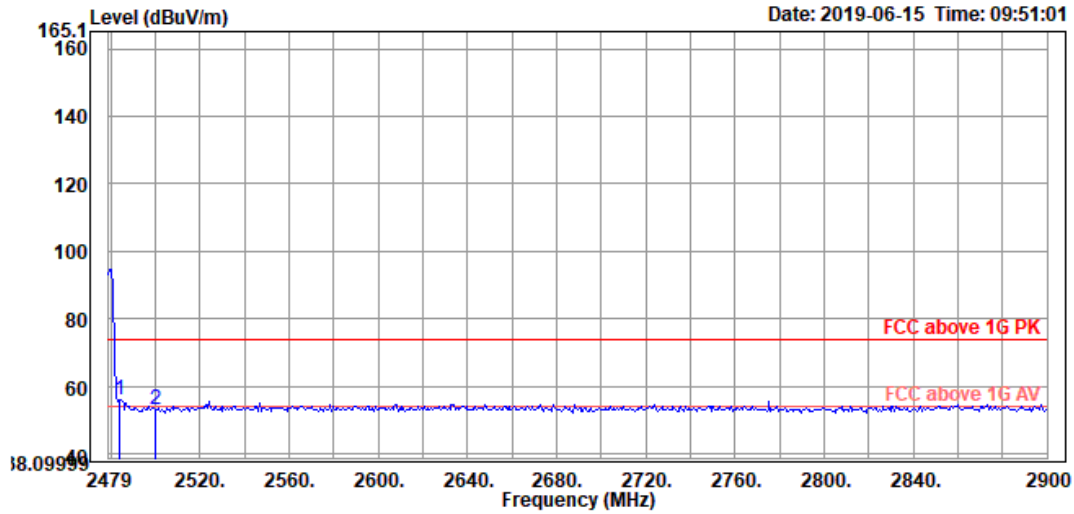


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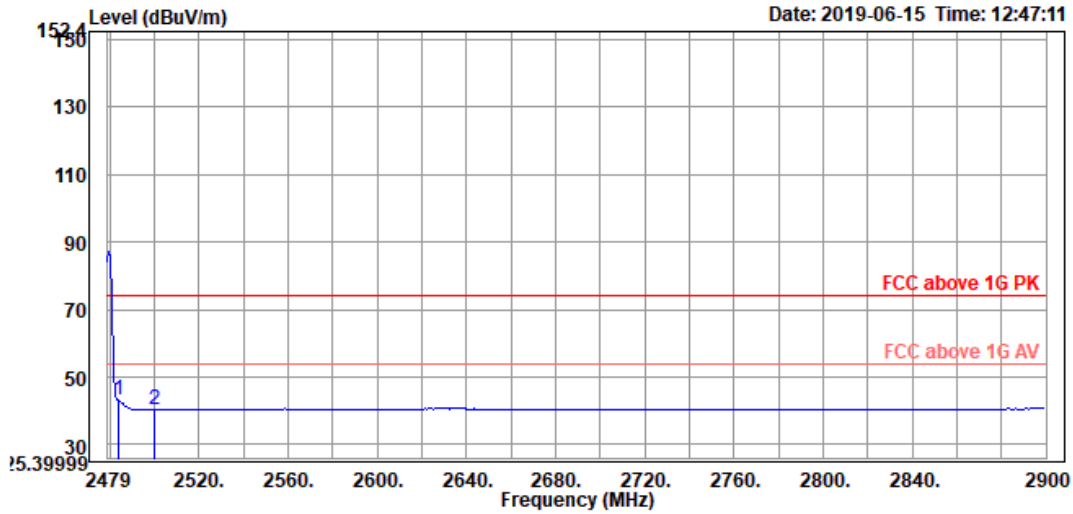
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	50.12	-8.05	42.07	54.00	-11.93	100 39 Average
2	2500.000	48.38	-8.09	40.29	54.00	-13.71	100 39 Average



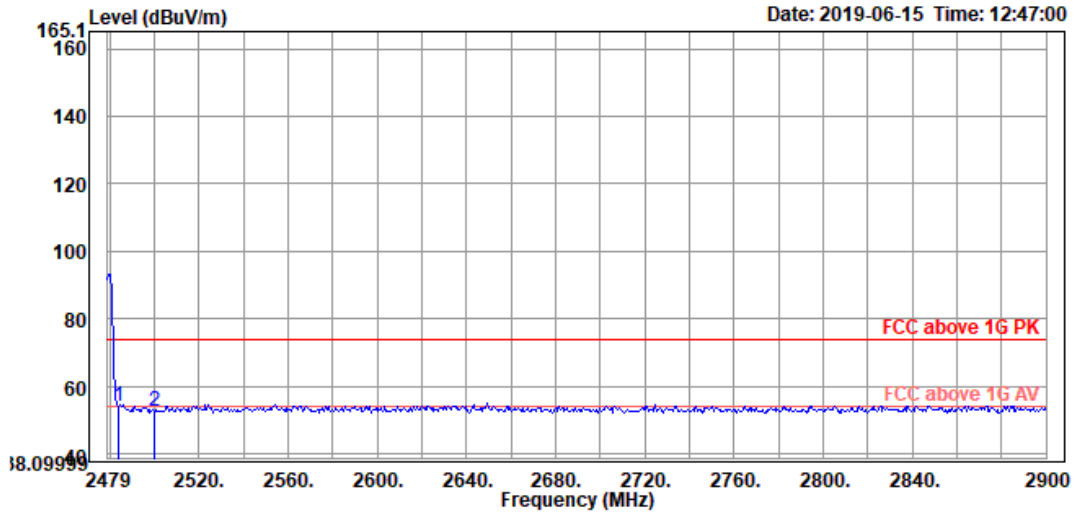
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	63.90	-8.05	55.85	74.00	-18.15	100 39 Peak
2	2500.000	61.01	-8.09	52.92	74.00	-21.08	100 39 Peak



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	51.21	-8.05	43.16	54.00	-10.84	113 198 Average
2	2500.000	48.36	-8.09	40.27	54.00	-13.73	113 198 Average



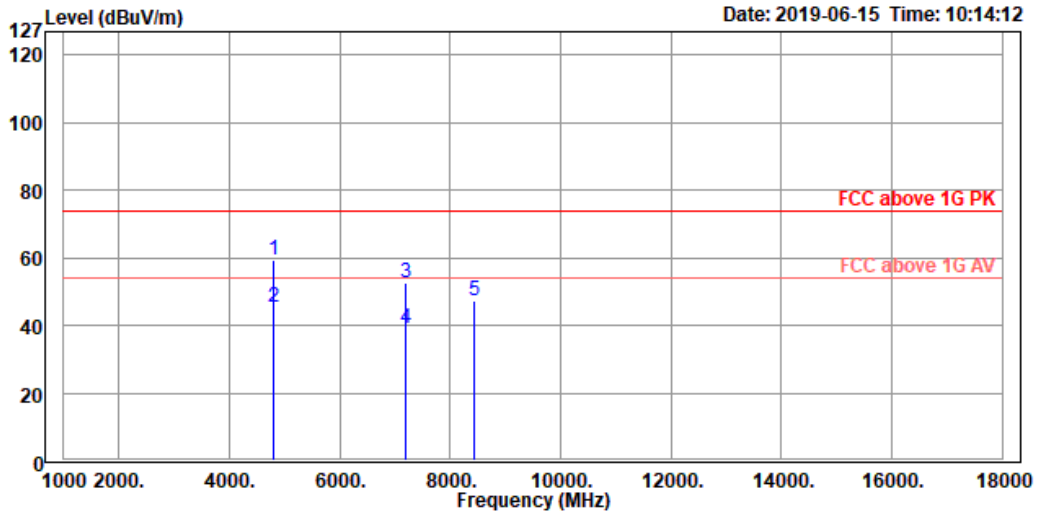
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m Vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	2483.500	62.21	-8.05	54.16	74.00	-19.84	113 198 Peak
2	2500.000	60.72	-8.09	52.63	74.00	-21.37	113 198 Peak

Spurious Emissions, TX Mode, 1-18G

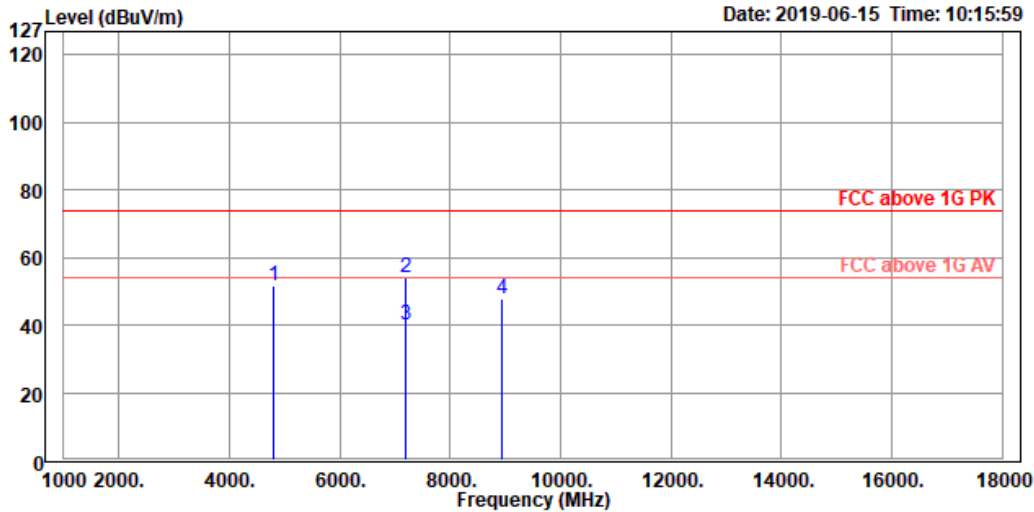


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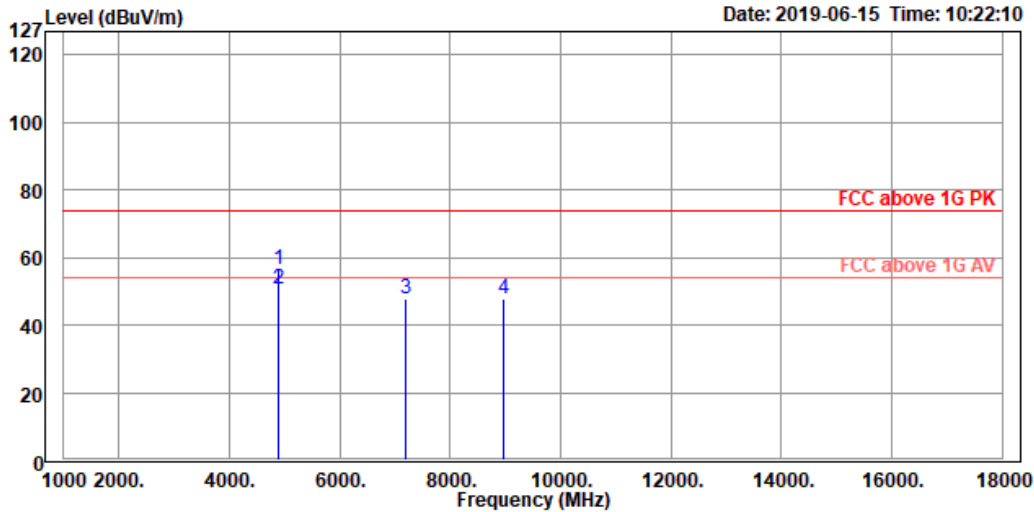
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4804.000	61.59	-2.36	59.23	74.00	-14.77	100	205	Peak	
2	4804.000	47.65	-2.36	45.29	54.00	-8.71	100	205	Average	
3	7206.000	46.92	5.53	52.45	74.00	-21.55	100	50	Peak	
4	7206.000	33.80	5.53	39.33	54.00	-14.67	100	50	Average	
5	8440.580	40.87	6.61	47.48	74.00	-26.52	100	113	Peak	



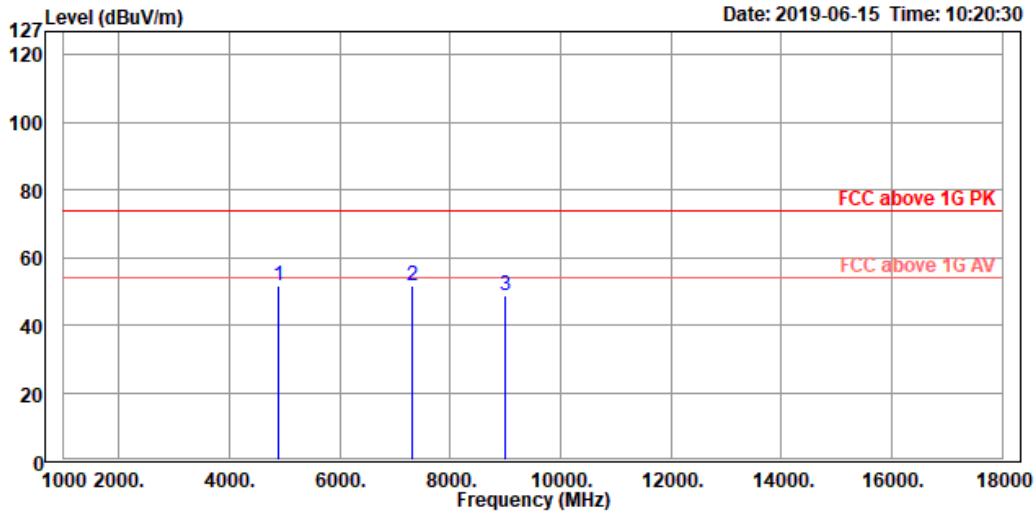
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4804.000	54.02	-2.36	51.66	74.00	-22.34	100 322 Peak
2	7206.000	48.33	5.53	53.86	74.00	-20.14	100 183 Peak
3	7206.000	34.55	5.53	40.08	54.00	-13.92	100 183 Average
4	8933.333	40.92	6.75	47.67	74.00	-26.33	100 343 Peak



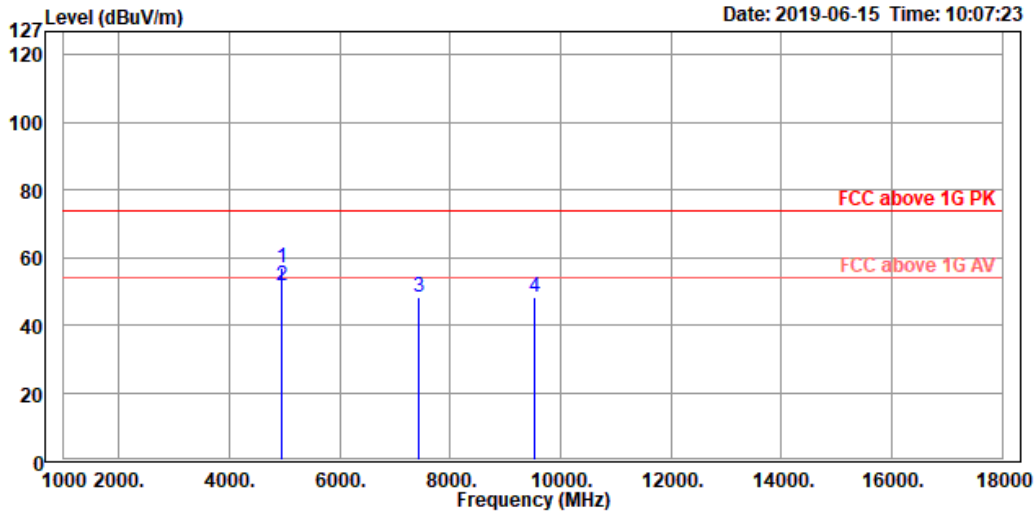
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4880.000	58.77	-2.20	56.57	74.00	-17.43	100 183 Peak
2	4880.000	52.82	-2.20	50.62	54.00	-3.38	100 183 Average
3	7184.058	42.45	5.47	47.92	74.00	-26.08	100 287 Peak
4	8982.608	41.10	6.72	47.82	74.00	-26.18	100 176 Peak



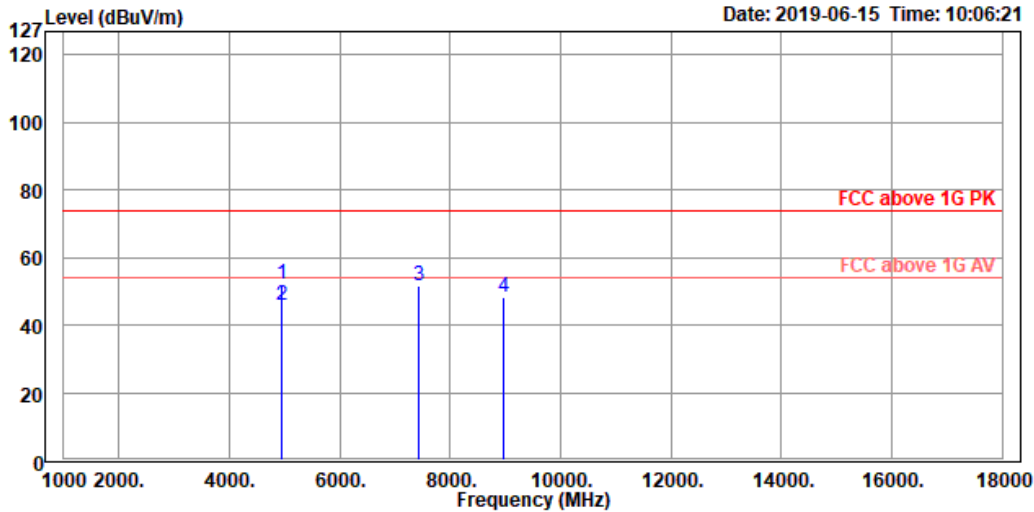
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4880.000	53.95	-2.20	51.75	74.00	-22.25	100	317	Peak	
2	7320.000	45.80	5.77	51.57	74.00	-22.43	100	183	Peak	
3	9007.246	41.86	6.71	48.57	74.00	-25.43	100	88	Peak	



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4960.000	58.71	-1.91	56.80	74.00	-17.20	100 195 Peak
2	4960.000	53.43	-1.91	51.52	54.00	-2.48	100 195 Average
3	7440.000	42.32	6.11	48.43	74.00	-25.57	100 325 Peak
4	9524.638	41.84	6.62	48.46	74.00	-25.54	100 311 Peak



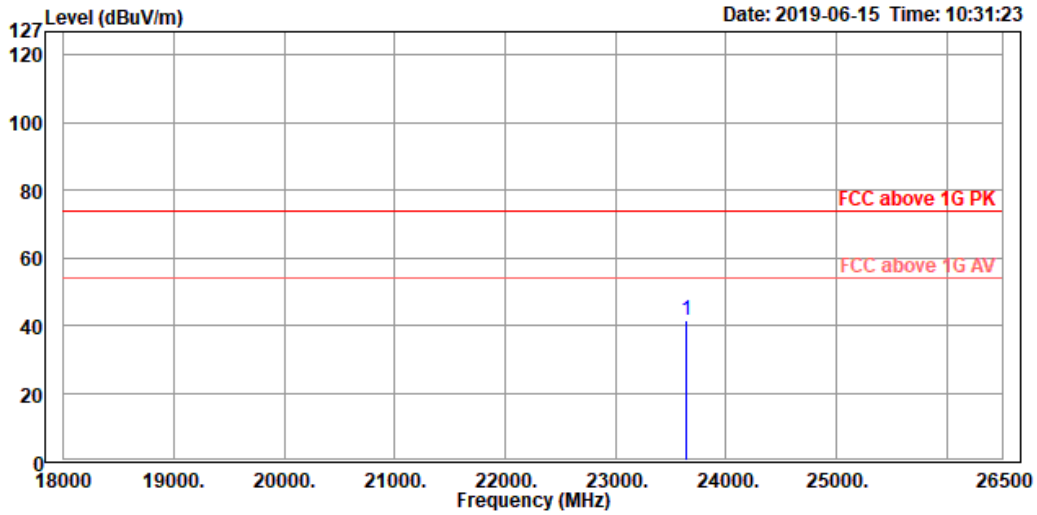
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	4960.000	54.06	-1.91	52.15	74.00	-21.85	100 310 Peak
2	4960.000	47.89	-1.91	45.98	54.00	-8.02	100 310 Average
3	7440.000	45.44	6.11	51.55	74.00	-22.45	100 212 Peak
4	8957.971	41.32	6.73	48.05	74.00	-25.95	100 124 Peak

Spurious Emissions, TX Mode, 18-26G

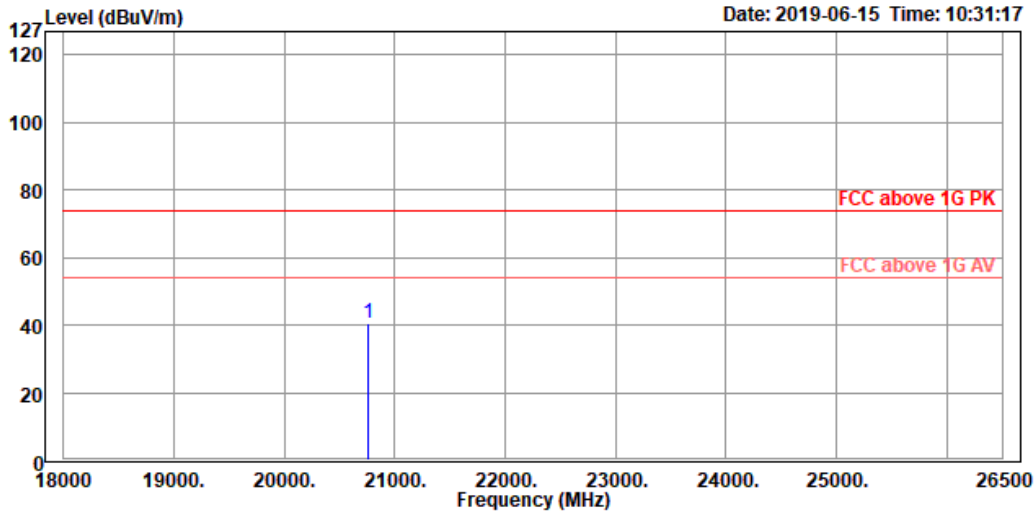


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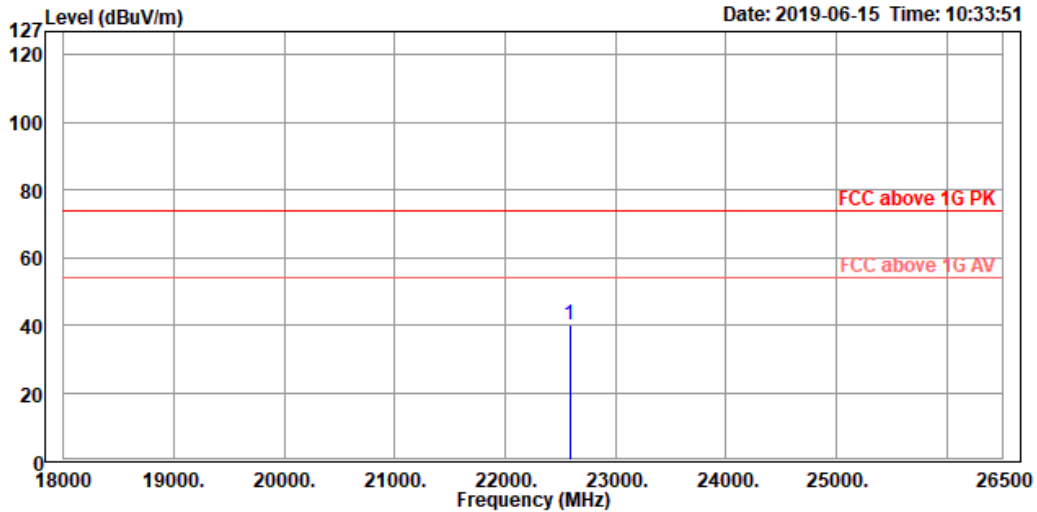
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Read		Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit		Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 23642.030	40.16	1.35	41.51	74.00	-32.49	100	93	Peak



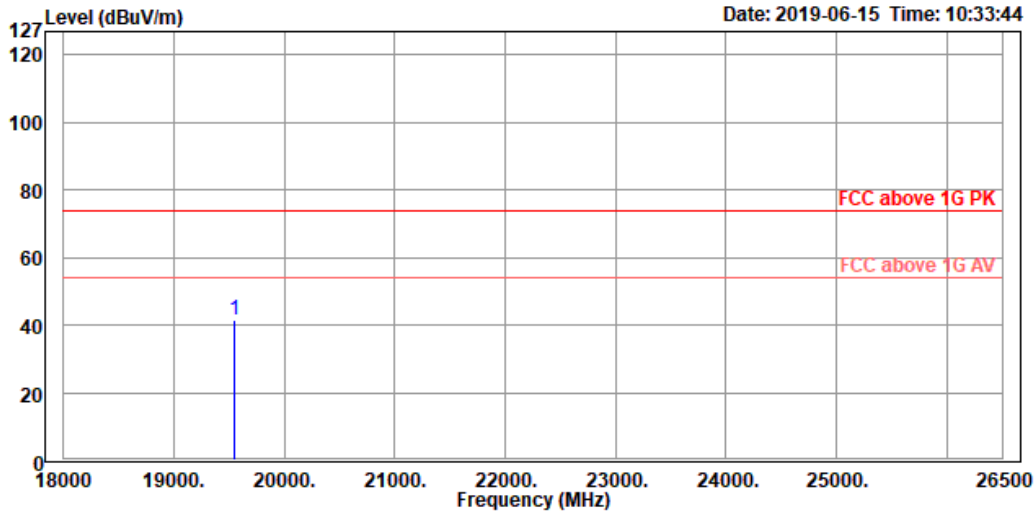
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2402
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 20759.420	41.16	-0.72	40.44	74.00	-33.56	100	145 Peak



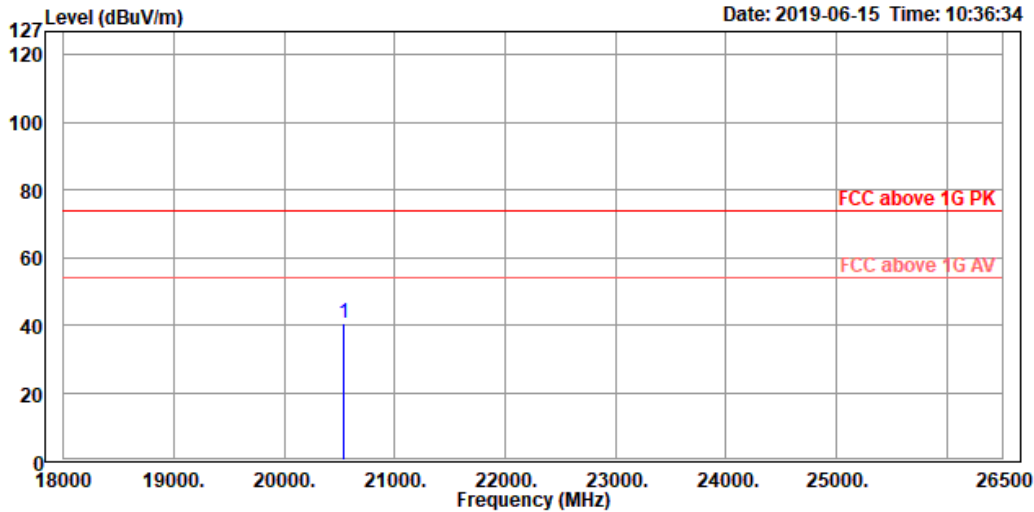
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 22582.610	40.24	0.01	40.25	74.00	-33.75	100	357 Peak



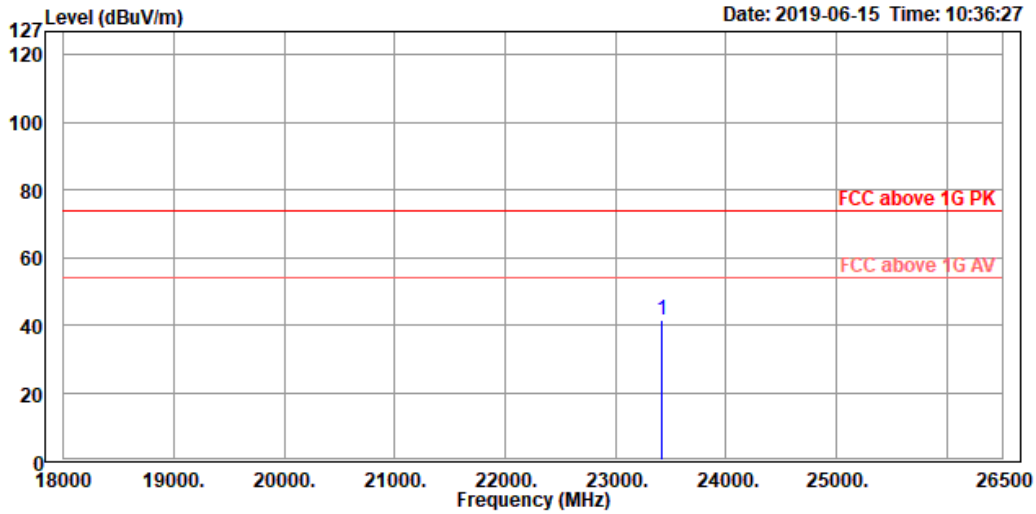
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read		Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit		Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1 19539.860	44.10	-2.45	41.65	74.00	-32.35	100	57	Peak



Site : 966A Chamber A
 Condition : FCC above 1G PK 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 20537.680	41.28	-0.87	40.41	74.00	-33.59	100	285 Peak



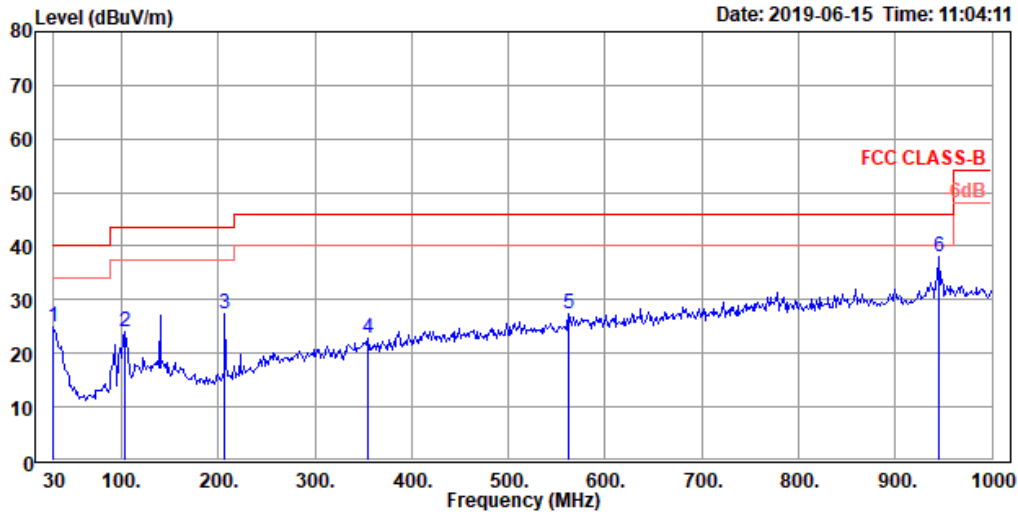
Site : 966A Chamber A
 Condition : FCC above 1G PK 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2480
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1 23420.290	40.39	1.23	41.62	74.00	-32.38	100	0 Peak

Spurious Emissions, TX Mode, 30M-1G

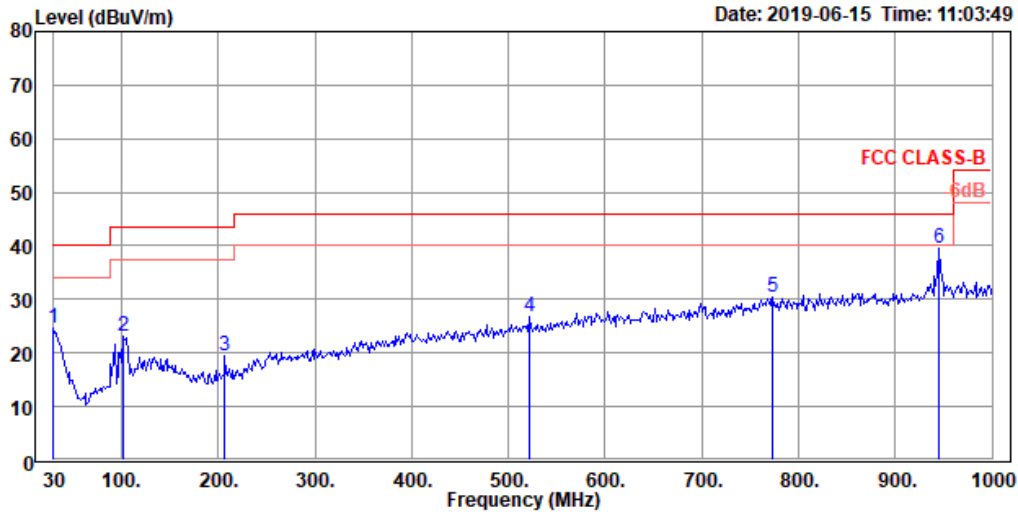


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Site : 966A Chamber A
 Condition : FCC CLASS-B 3m horizontal
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read		Limit	Over	APos	TPos		
Freq	Level	Factor	Level	Line	Limit		Remark	Note
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.000	24.93	-0.03	24.90	40.00	-15.10	100	29 QP
2	103.101	33.04	-9.07	23.97	43.50	-19.53	100	26 QP
3	207.130	36.12	-8.60	27.52	43.50	-15.98	100	215 QP
4	354.739	26.09	-3.16	22.93	46.00	-23.07	100	26 QP
5	562.797	27.19	0.05	27.24	46.00	-18.76	100	276 QP
6	945.174	32.45	5.49	37.94	46.00	-8.06	100	321 QP



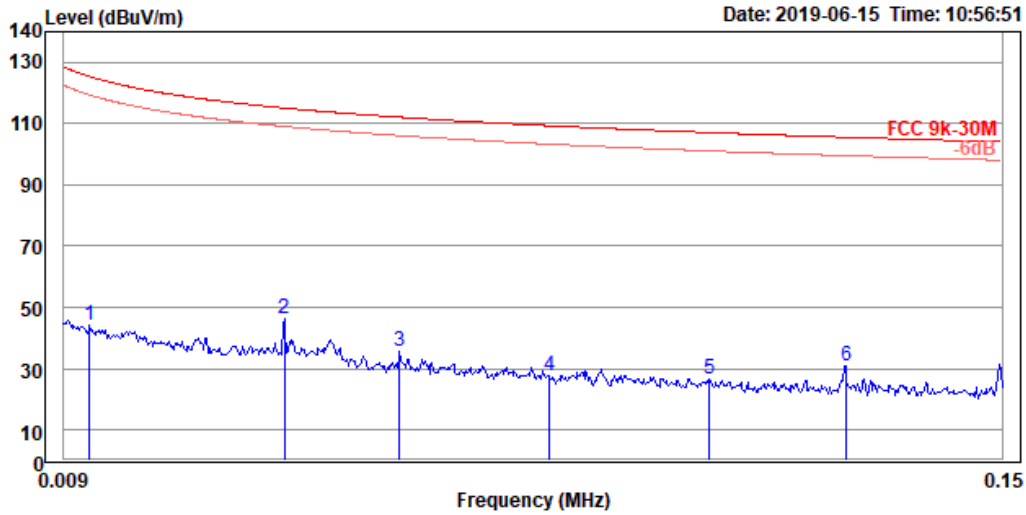
Site : 966A Chamber A
 Condition : FCC CLASS-B 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	30.000	24.60	-0.03	24.57	40.00	-15.43	100 130 QP
2	101.696	32.22	-9.22	23.00	43.50	-20.50	100 169 QP
3	207.130	28.21	-8.60	19.61	43.50	-23.89	100 216 QP
4	522.029	27.85	-0.94	26.91	46.00	-19.09	100 0 QP
5	773.667	27.59	2.75	30.34	46.00	-15.66	100 183 QP
6	945.174	33.97	5.49	39.46	46.00	-6.54	100 243 QP

Spurious Emissions, TX Mode, 9k-30M

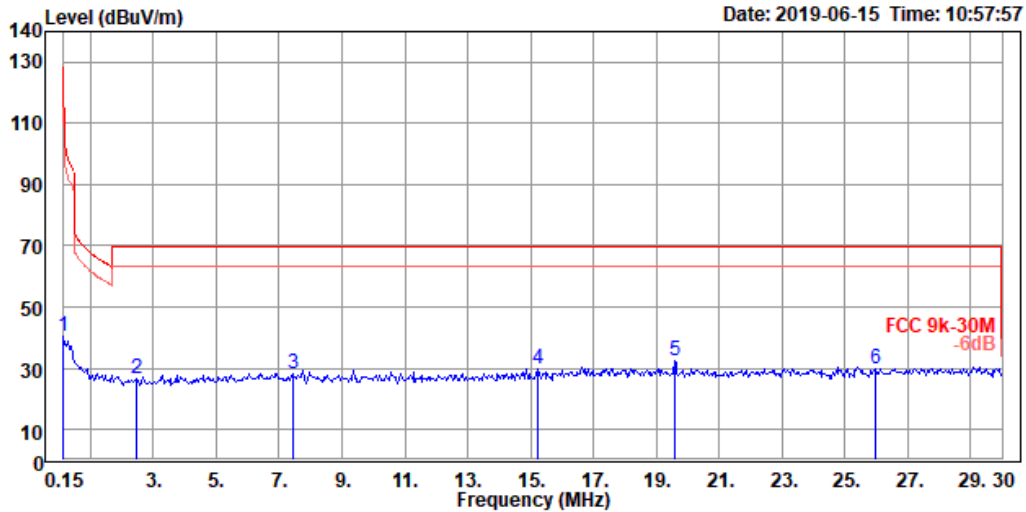


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 Tel:+886-2172-7000 Fax:+886-2528-0018



Site : 966A Chamber A
 Condition : FCC 9k-30M 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read Freq	Level	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.013	25.59	18.64	44.23	125.39	-81.16	100	106	QP	
2	0.042	27.50	19.08	46.58	115.11	-68.53	100	93	QP	
3	0.059	16.76	18.81	35.57	112.11	-76.54	100	145	QP	
4	0.082	9.11	18.54	27.65	109.32	-81.67	100	218	QP	
5	0.106	8.09	18.33	26.42	107.09	-80.67	100	71	QP	
6	0.127	12.69	18.34	31.03	105.56	-74.53	100	36	QP	



Site : 966A Chamber A
 Condition : FCC 9k-30M 3m vertical
 Test Engineer: Kevin Kuo
 Product : Bluetooth Darboard
 Model No. : SDB A1
 Test Rating : DC 3V
 Tmp/Hum : 22°C / 61%
 Power Setting: default
 Mode : TX-2440
 Memo : Y(直立)

	Read	Limit	Over	APos	TPos	Remark	Note
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	0.150	22.14	18.35	40.49	104.08	-63.59	100 136 QP
2	2.443	8.21	18.57	26.78	69.50	-42.72	100 288 QP
3	7.461	8.05	19.94	27.99	69.50	-41.51	100 104 QP
4	15.248	8.99	21.05	30.04	69.50	-39.46	100 255 QP
5	19.574	10.74	21.55	32.29	69.50	-37.21	100 143 QP
6	25.977	7.88	21.82	29.70	69.50	-39.80	100 132 QP