

Test Report No.50277816 001

## Appendix D: Radiated and Mains Spurious Emission Data

(File: 50277816 001 AppendixD)

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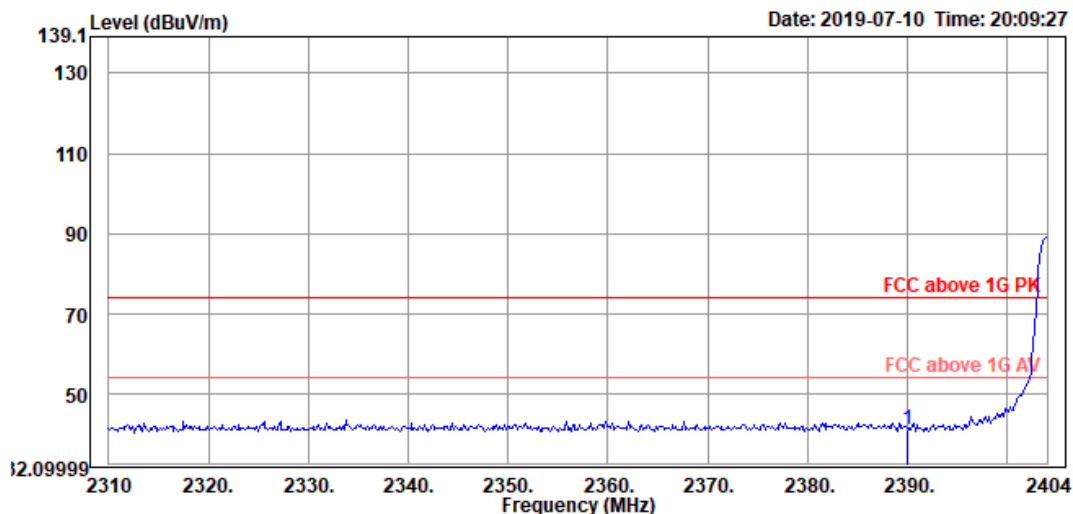
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# Spurious Emissions, Band Edges, 2.35-2.5G

## Radiated Bandedge (GFSK), Low Channel

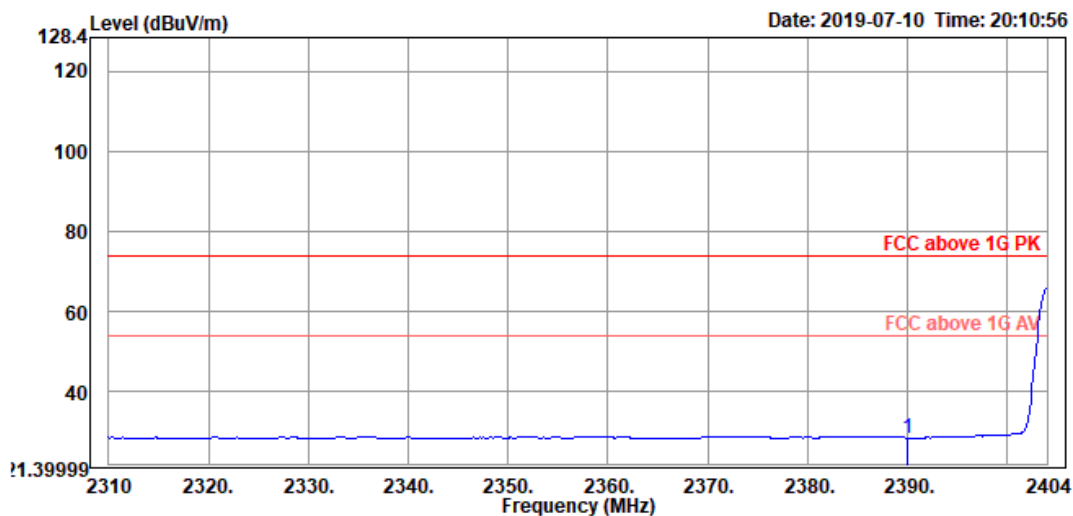


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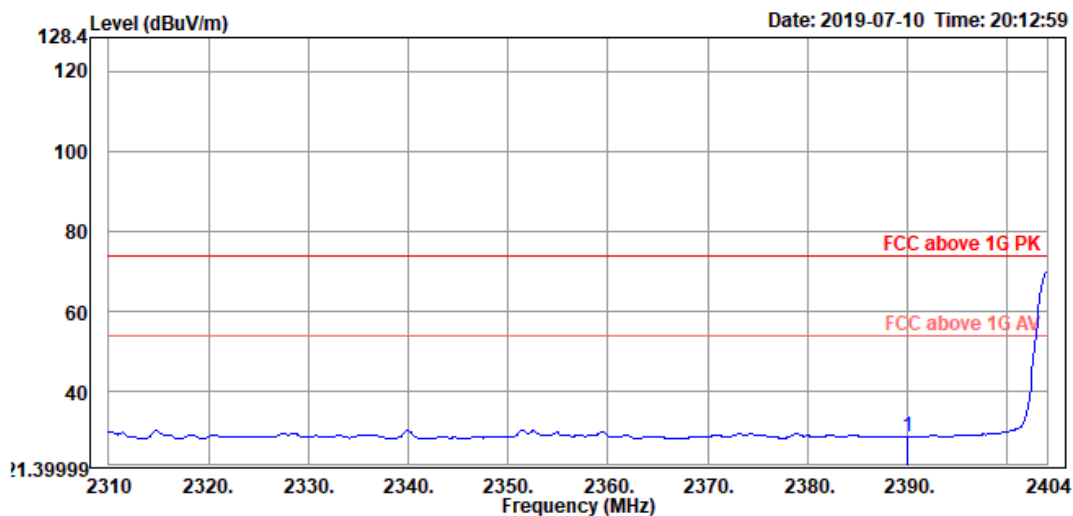
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m Horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	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	49.28	-8.26	41.02	74.00	-32.98	100	315	Peak	



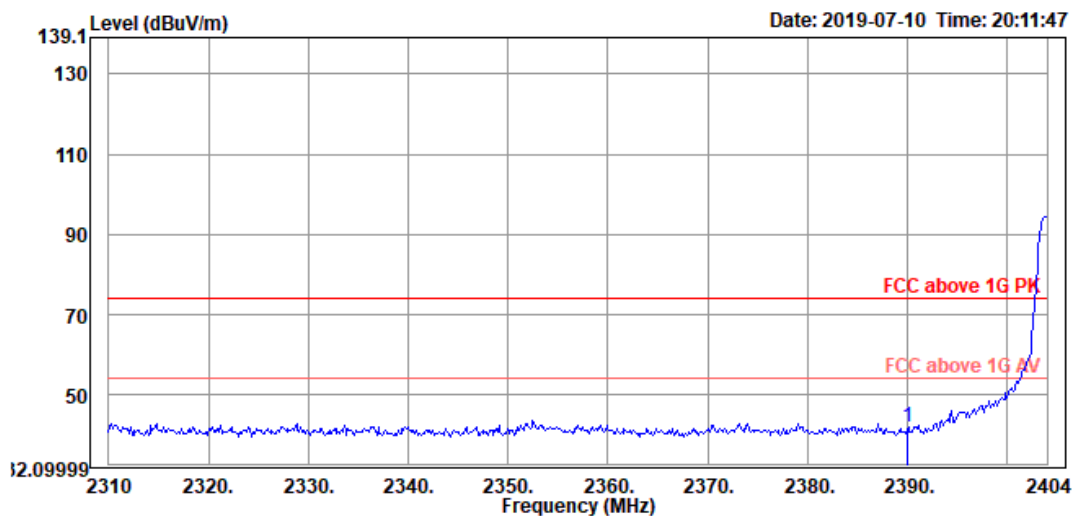
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m Horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	Line	Limit				
		dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2390.000	36.71	-8.26	28.45	54.00	-25.55	100	315	Average



Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	Factor	dBuV/m	Line	Limit			
		dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2390.000	36.89	-8.26	28.63	54.00	-25.37	100	291 Average	



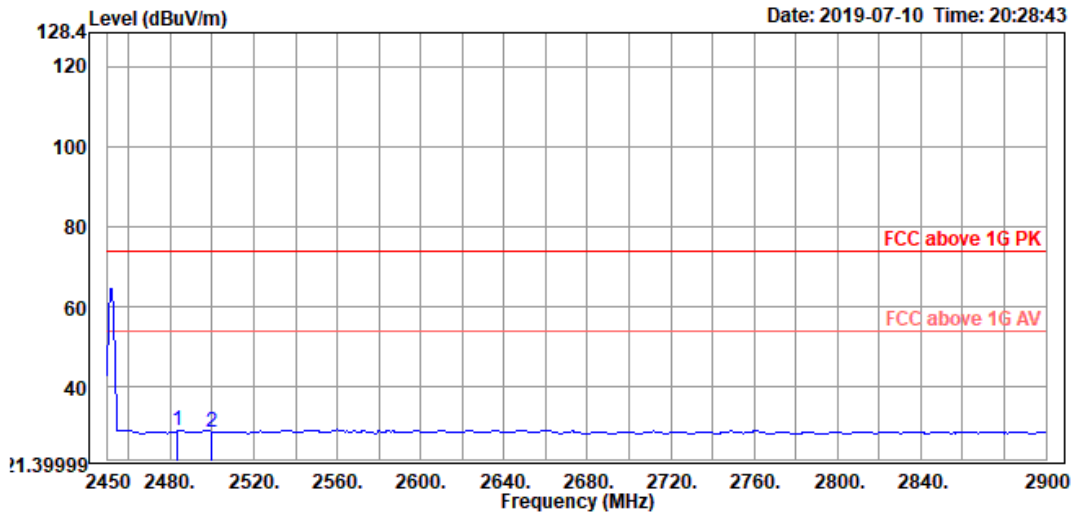
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	2390.000	49.95	-8.26	41.69	74.00	-32.31	100	291 Peak	

# Radiated Bandedge (GFSK), High Channel

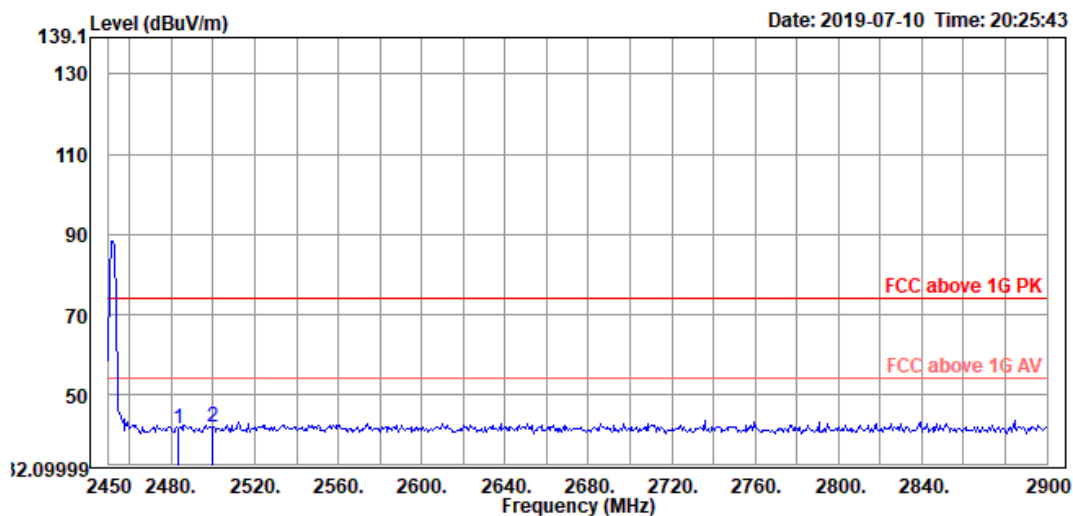


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Site : 966A Chamber A  
Condition : FCC above 1G PK 3m Horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

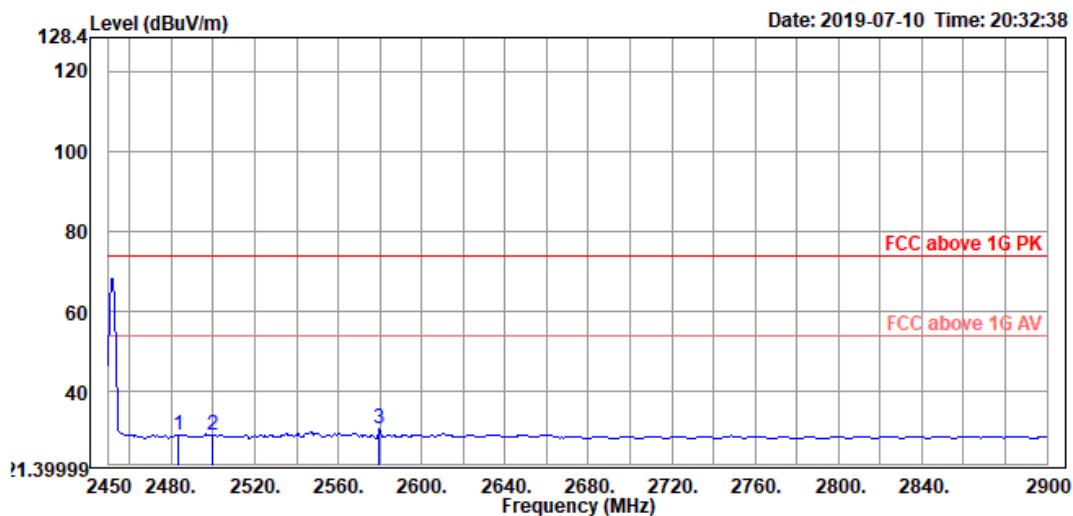
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2483.500	37.04	-8.11	28.93	54.00	-25.07	100	311	Average	
2	2500.000	36.98	-8.15	28.83	54.00	-25.17	100	311	Average	



Site : 966A Chamber A  
Condition : FCC above 1G PK 3m Horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

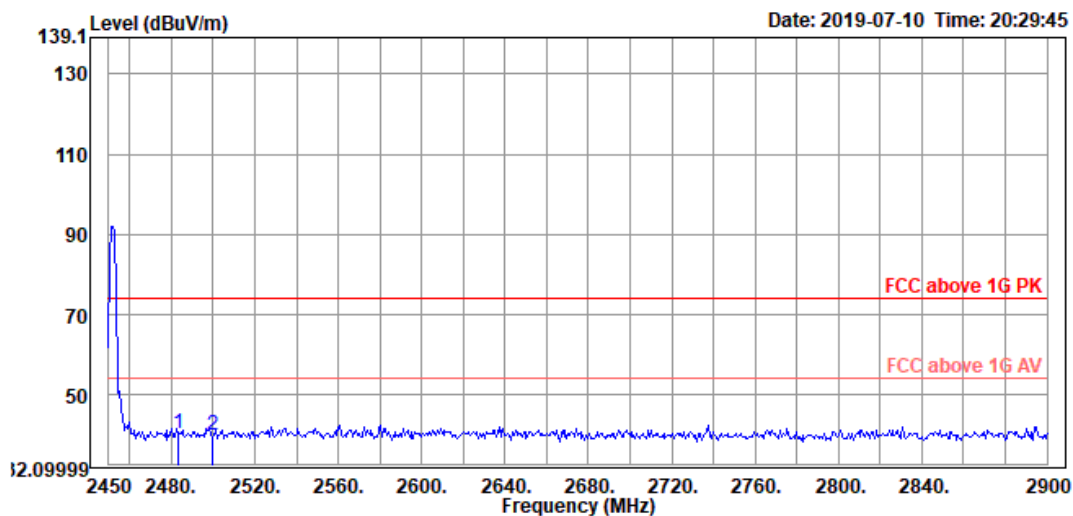
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	2483.500	49.49	-8.11	41.38	74.00	-32.62	100	311	Peak	
2	2500.000	50.13	-8.15	41.98	74.00	-32.02	100	311	Peak	





Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

	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	2483.500	37.14	-8.11	29.03	54.00	-24.97	100	304	Average	
2	2500.000	37.19	-8.15	29.04	54.00	-24.96	100	304	Average	
3	2579.783	38.98	-8.03	30.95	54.00	-23.05	100	304	Average	



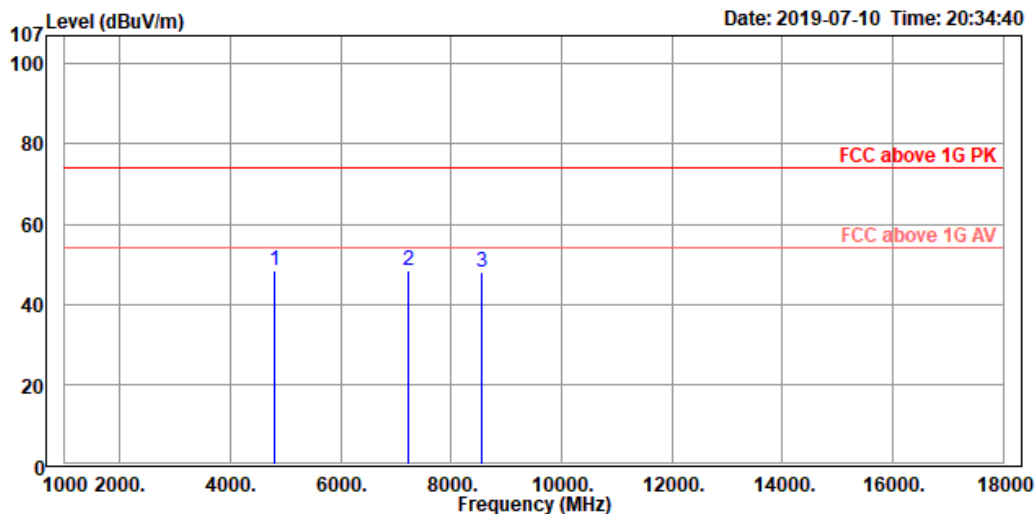
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

	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	2483.500	48.19	-8.11	40.08	74.00	-33.92	100	304	Peak	
2	2500.000	48.12	-8.15	39.97	74.00	-34.03	100	304	Peak	

# Spurious Emissions, TX Mode, 1-18G

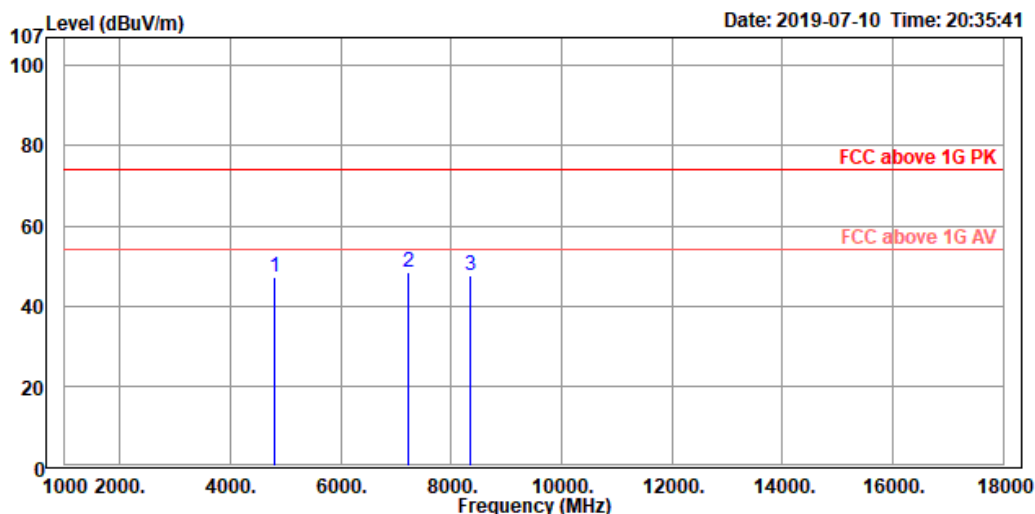


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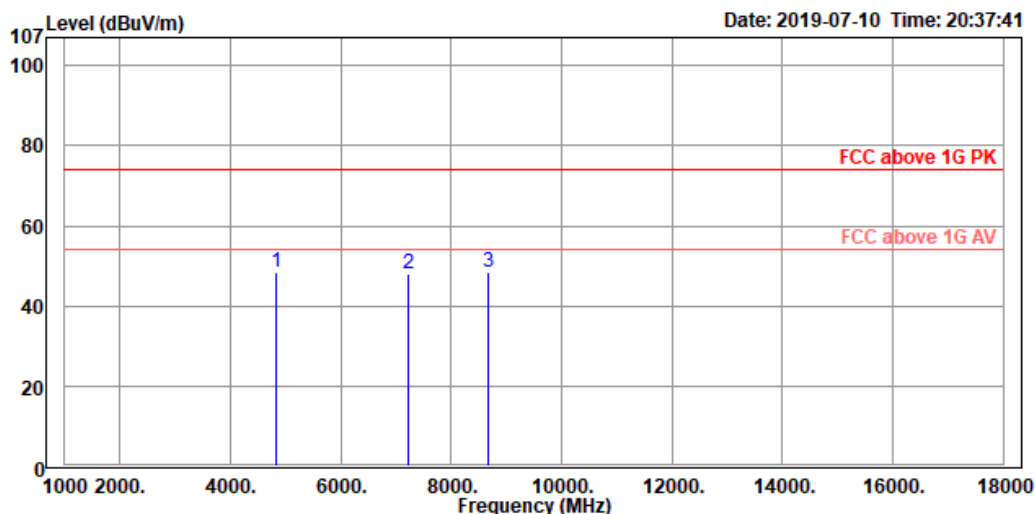
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	dB/m	Line	Limit			
		dBuV		dBuV/m	dBuV/m	dB	cm	deg	
1	4808.000	51.63	-3.25	48.38	74.00	-25.62	100	220	Peak
2	7212.000	43.92	4.44	48.36	74.00	-25.64	100	5	Peak
3	8563.769	42.27	5.67	47.94	74.00	-26.06	100	39	Peak



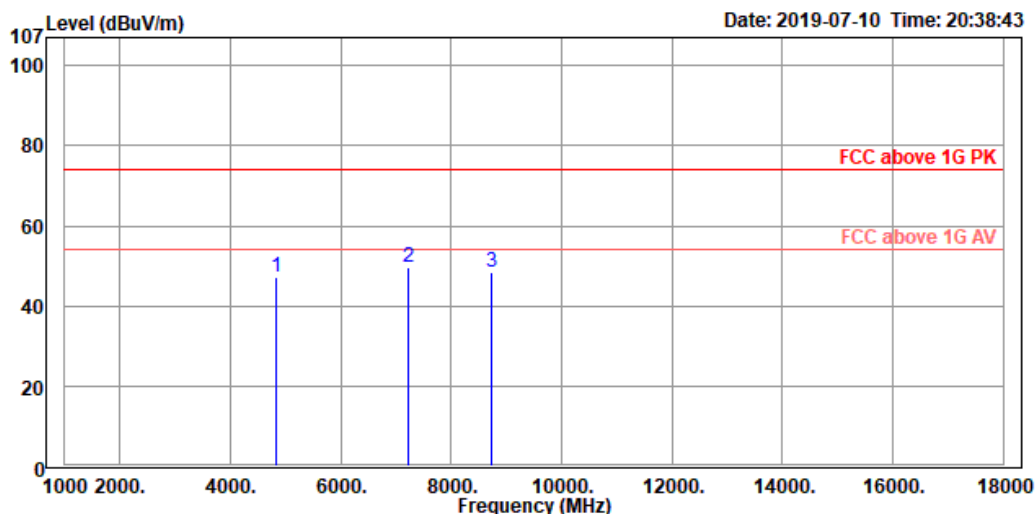
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	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	4808.000	50.64	-3.25	47.39	74.00	-26.61	100	275	Peak	
2	7212.000	43.94	4.44	48.38	74.00	-25.62	100	238	Peak	
3	8342.029	42.41	5.38	47.79	74.00	-26.21	100	72	Peak	



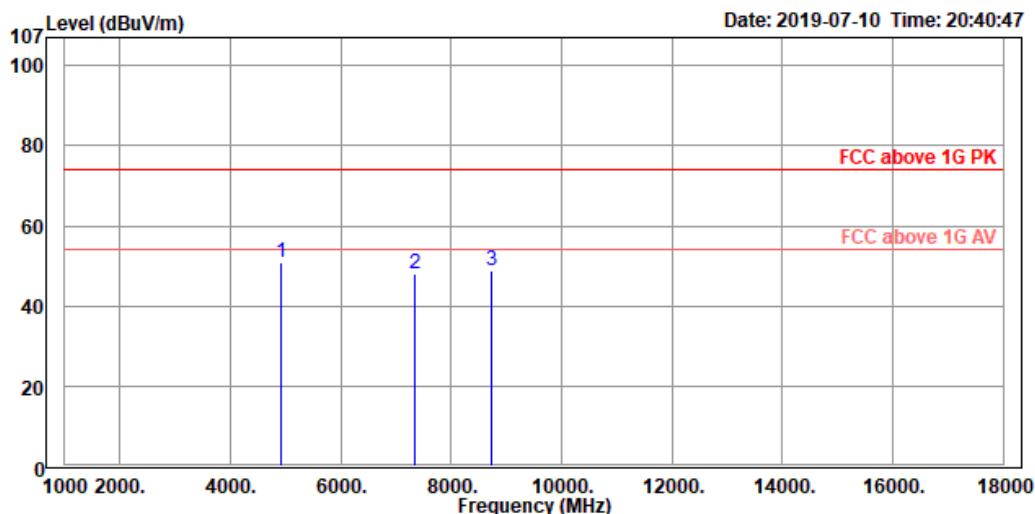
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

	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	4820.000	51.48	-3.24	48.24	74.00	-25.76	100	161	Peak	
2	7230.000	43.40	4.45	47.85	74.00	-26.15	100	157	Peak	
3	8686.956	42.90	5.67	48.57	74.00	-25.43	100	96	Peak	



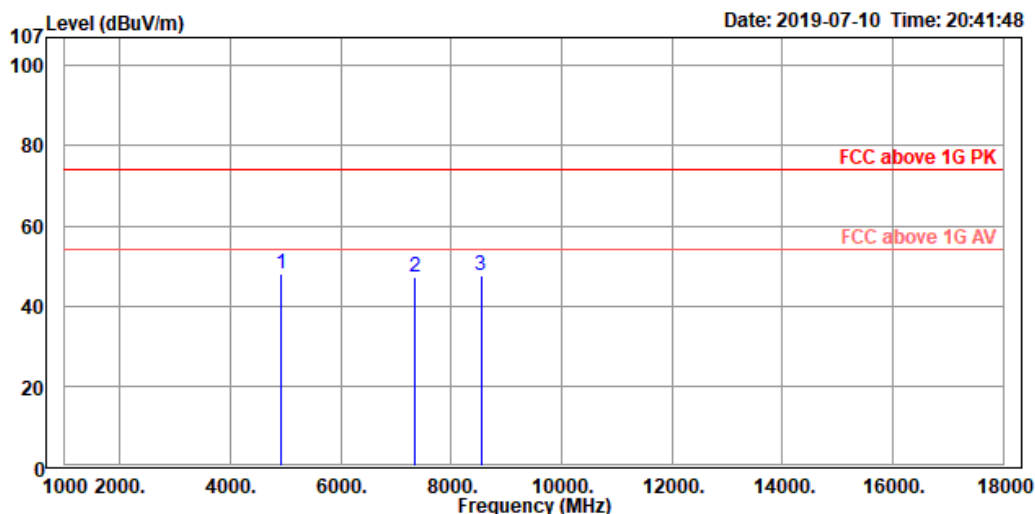
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

	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	4820.000	50.61	-3.24	47.37	74.00	-26.63	100	253	Peak	
2	7230.000	45.08	4.45	49.53	74.00	-24.47	100	264	Peak	
3	8736.231	42.75	5.67	48.42	74.00	-25.58	100	257	Peak	



Site : 966A Chamber A  
Condition : FCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

	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	4904.000	54.16	-3.15	51.01	74.00	-22.99	100	163	Peak	
2	7356.000	43.21	4.76	47.97	74.00	-26.03	100	0	Peak	
3	8736.231	43.27	5.67	48.94	74.00	-25.06	100	122	Peak	



Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

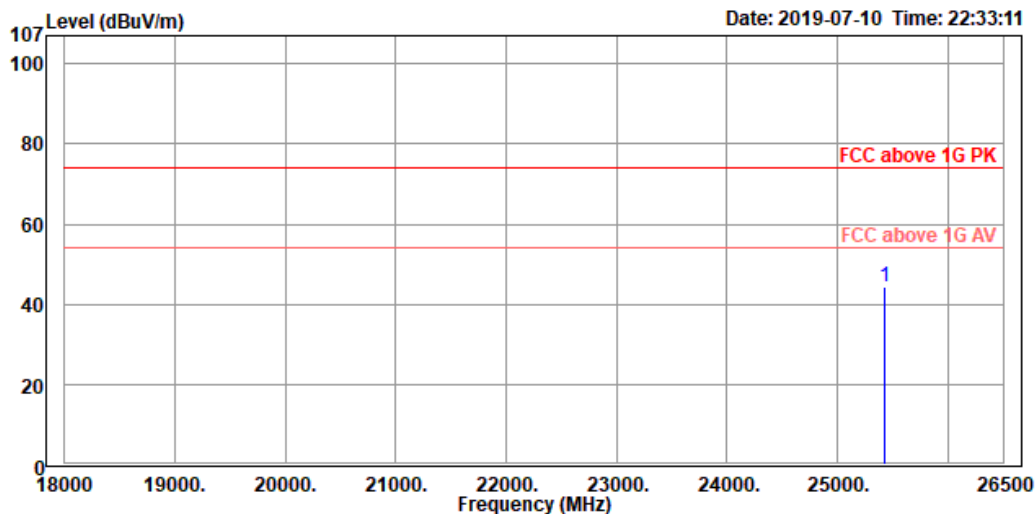
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	4904.000	51.03	-3.15	47.88	74.00	-26.12	100	265	Peak	
2	7356.000	42.51	4.76	47.27	74.00	-26.73	100	245	Peak	
3	8539.131	42.09	5.67	47.76	74.00	-26.24	100	279	Peak	



# Spurious Emissions, TX Mode, 18-26G

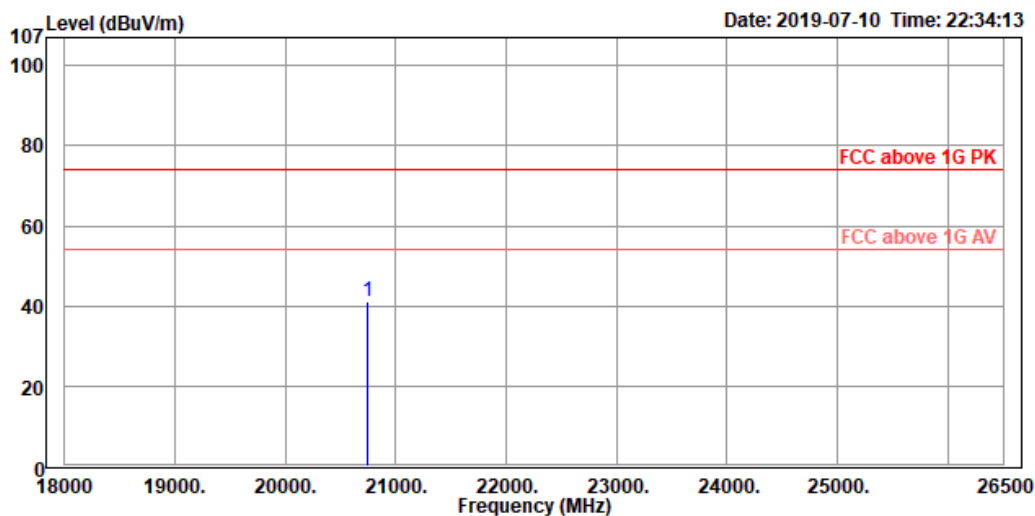


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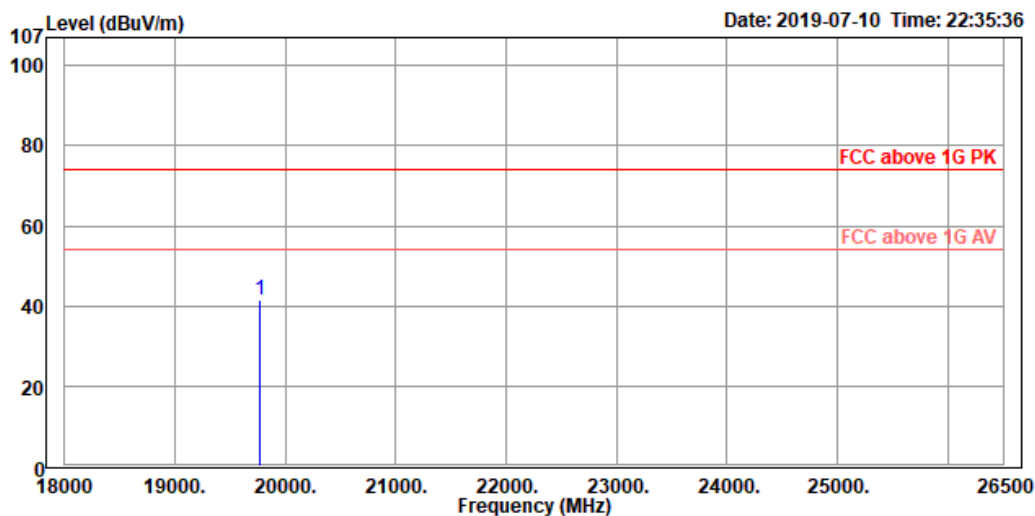
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	25428.260	42.40	1.98	44.38	74.00	-29.62	100	215	Peak



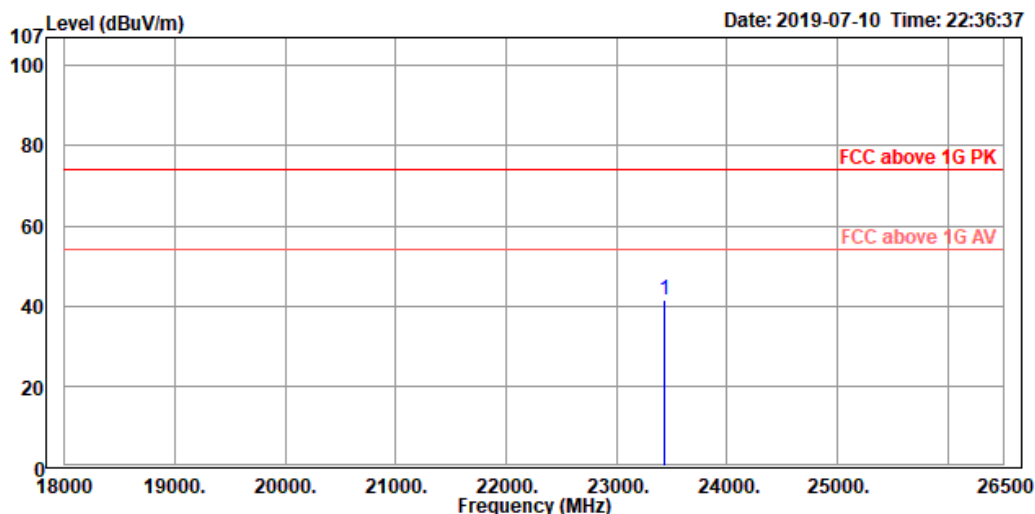
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2404  
Memo : X(側立)

	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	20747.100	41.72	-0.80	40.92	74.00	-33.08	100	13	Peak	



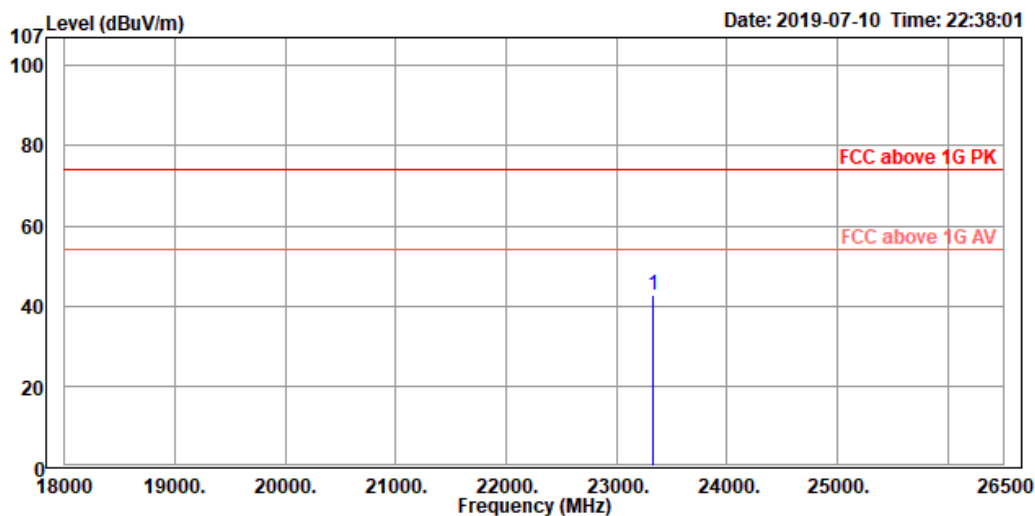
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

	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	19773.910	43.60	-2.28	41.32	74.00	-32.68	100	104	Peak	



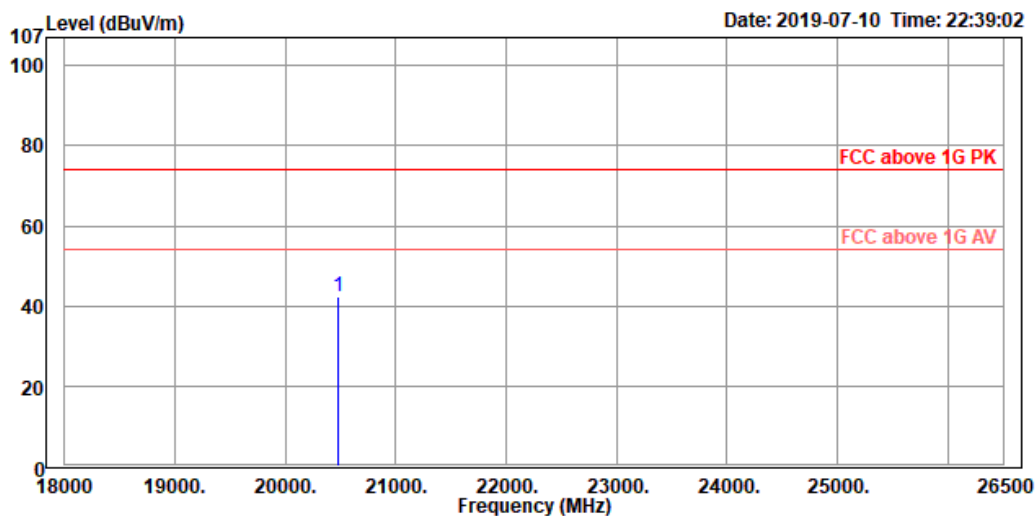
Site : 966A Chamber A  
 Condition : FCC above 1G PK 3m vertical  
 Test Engineer: Kevin Kuo  
 Product : Radio Module  
 Model No. : 23.A00L83  
 Test Rating : 3.3 Vdc  
 Tmp/Hum : 25°C/54%  
 Power Setting: NA(default)  
 Mode : TX-2410  
 Memo : X(側立)

	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	23432.610	40.56	1.02	41.58	74.00	-32.42	100	268	Peak	



Site : 966A Chamber A  
Condition : FCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

	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	23334.060	41.61	0.97	42.58	74.00	-31.42	100	280	Peak	



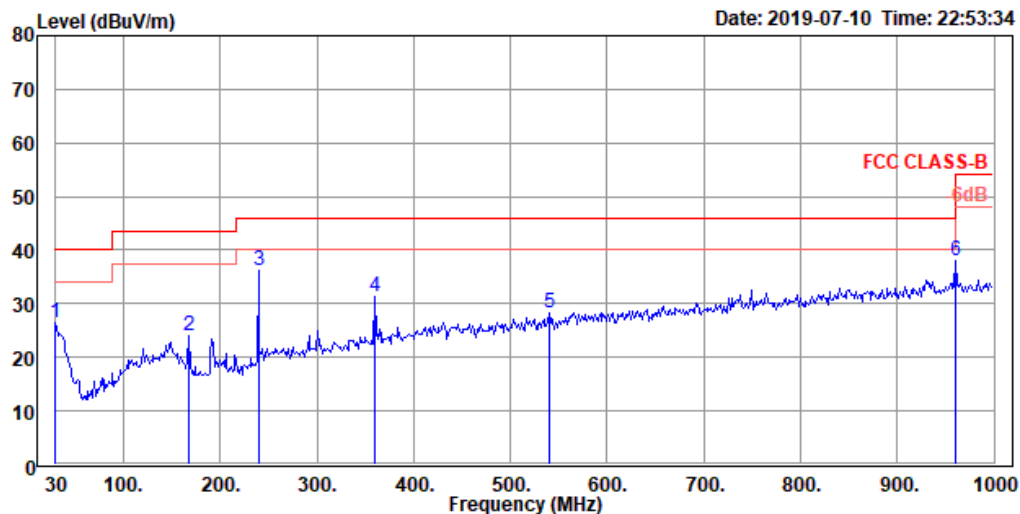
Site : 966A Chamber A  
Condition : FCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2452  
Memo : X(側立)

	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	20476.090	43.28	-0.96	42.32	74.00	-31.68	100	171	Peak	

# Spurious Emissions, TX Mode, 30M-1G

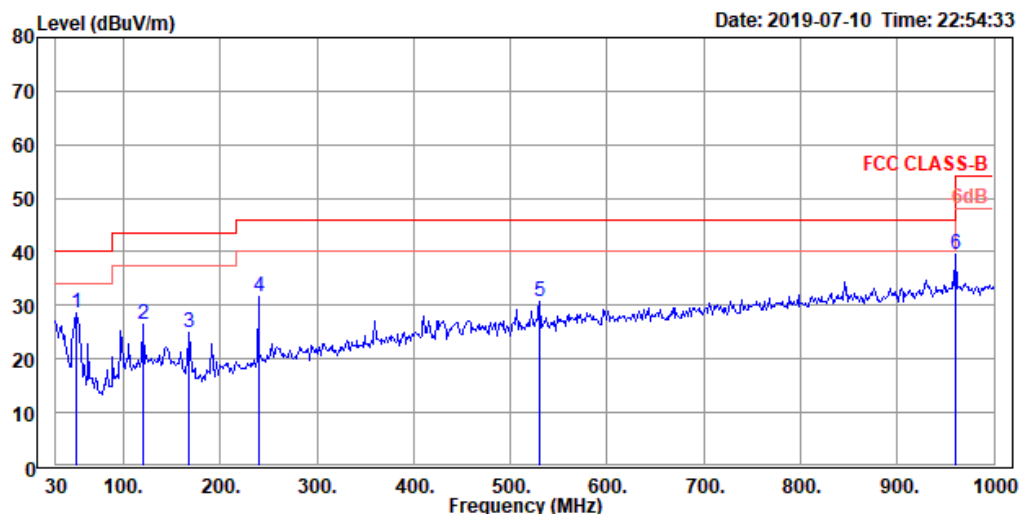


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Site : 966A Chamber A  
Condition : FCC CLASS-B 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

	Freq	Read		Limit	Over	APos	TPos		
	MHz	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	30.000	26.60	0.02	26.62	40.00	-13.38	100	2 QP	
2	167.768	32.87	-8.73	24.14	43.50	-19.36	100	103 QP	
3	239.464	42.98	-6.78	36.20	46.00	-9.80	100	275 QP	
4	360.362	34.57	-3.22	31.35	46.00	-14.65	100	62 QP	
5	540.304	29.35	-1.07	28.28	46.00	-17.72	100	0 QP	
6	960.638	32.31	5.71	38.02	54.00	-15.98	100	225 QP	



Site : 966A Chamber A  
Condition : FCC CLASS-B 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

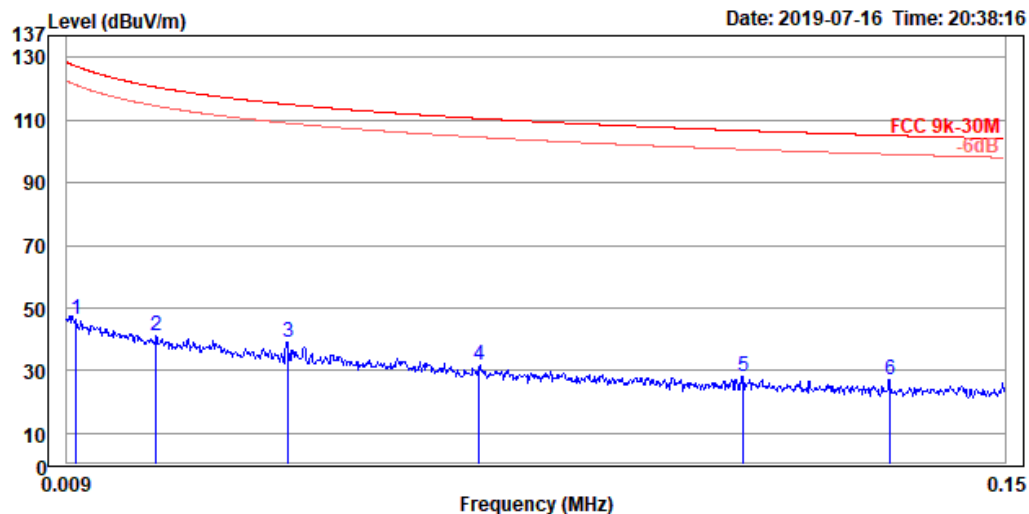
	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	Factor	Level	Line	Limit			
		dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	51.087	40.03	-11.53	28.50	40.00	-11.50	100	13 QP	
2	119.971	33.88	-7.40	26.48	43.50	-17.02	100	202 QP	
3	167.768	33.63	-8.73	24.90	43.50	-18.60	100	131 QP	
4	239.464	38.41	-6.78	31.63	46.00	-14.37	100	289 QP	
5	530.464	31.67	-1.07	30.60	46.00	-15.40	100	26 QP	
6	960.638	33.72	5.71	39.43	54.00	-14.57	100	340 QP	



# Spurious Emissions, TX Mode, 9k-30M

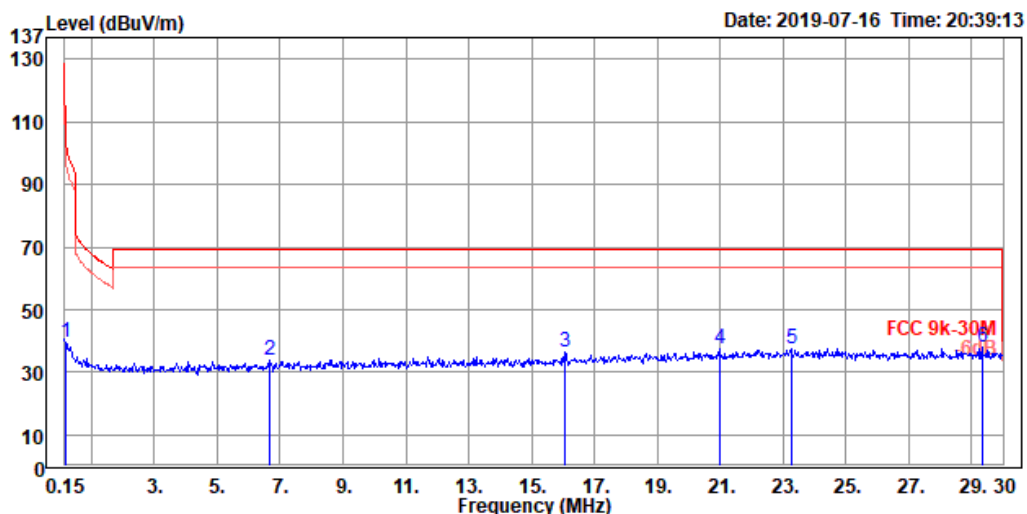


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Site : 966A Chamber A  
Condition : FCC 9k-30M 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

	Freq	Read		Limit	Over	APos	TPos		
	MHz	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	0.010	28.50	18.09	46.59	127.24	-80.65	100	180	QP
2	0.022	22.32	18.64	40.96	120.59	-79.63	100	125	QP
3	0.042	20.33	18.92	39.25	115.10	-75.85	100	286	QP
4	0.071	13.15	18.39	31.54	110.56	-79.02	100	51	QP
5	0.111	10.31	17.74	28.05	106.72	-78.67	100	172	QP
6	0.133	9.08	17.84	26.92	105.14	-78.22	100	193	QP



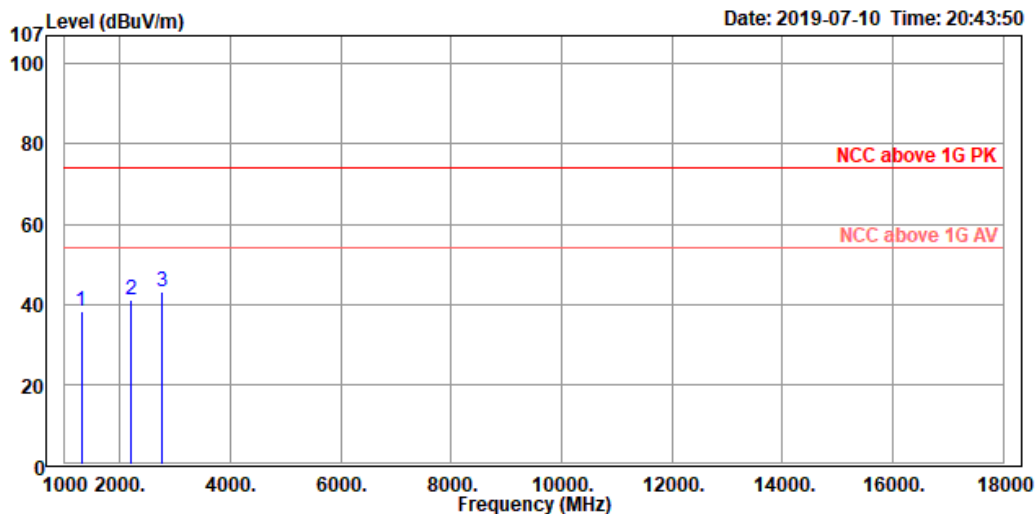
Site : 966A Chamber A  
Condition : FCC 9k-30M 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : TX-2410  
Memo : X(側立)

	Freq	Read	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.180	21.49	18.04	39.53	102.50	-62.97	100	115	QP	
2	6.657	14.32	19.69	34.01	69.50	-35.49	100	298	QP	
3	16.060	15.37	21.01	36.38	69.50	-33.12	100	160	QP	
4	20.985	15.84	21.45	37.29	69.50	-32.21	100	2	QP	
5	23.254	16.10	21.55	37.65	69.50	-31.85	100	342	QP	
6	29.343	16.08	21.82	37.90	69.50	-31.60	100	58	QP	

# Spurious Emissions, RX Mode, 1-18G

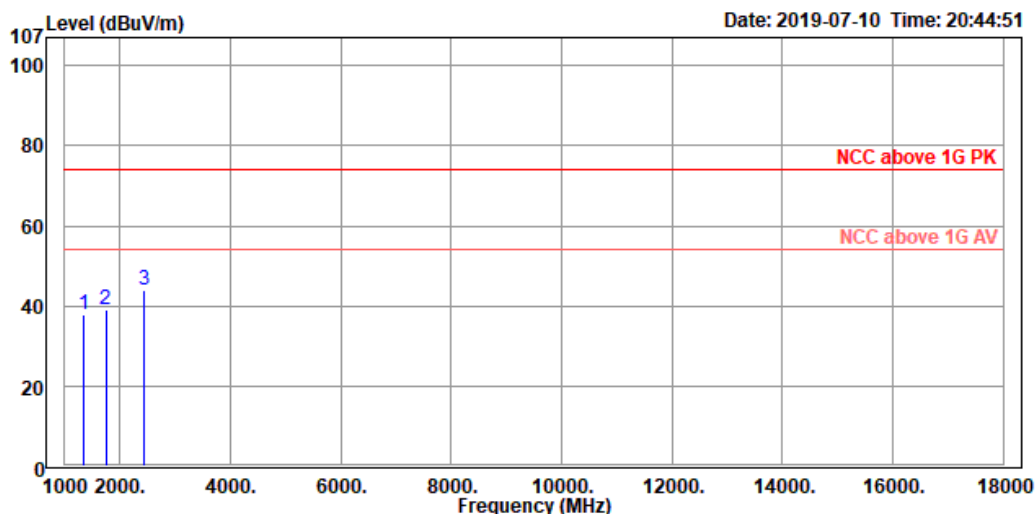


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Site : 966A Chamber A  
Condition : NCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	Line	Limit				
		dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	1295.652	48.36	-10.20	38.16	74.00	-35.84	100	149	Peak
2	2207.246	49.80	-8.68	41.12	74.00	-32.88	100	360	Peak
3	2773.913	51.23	-7.99	43.24	74.00	-30.76	100	59	Peak



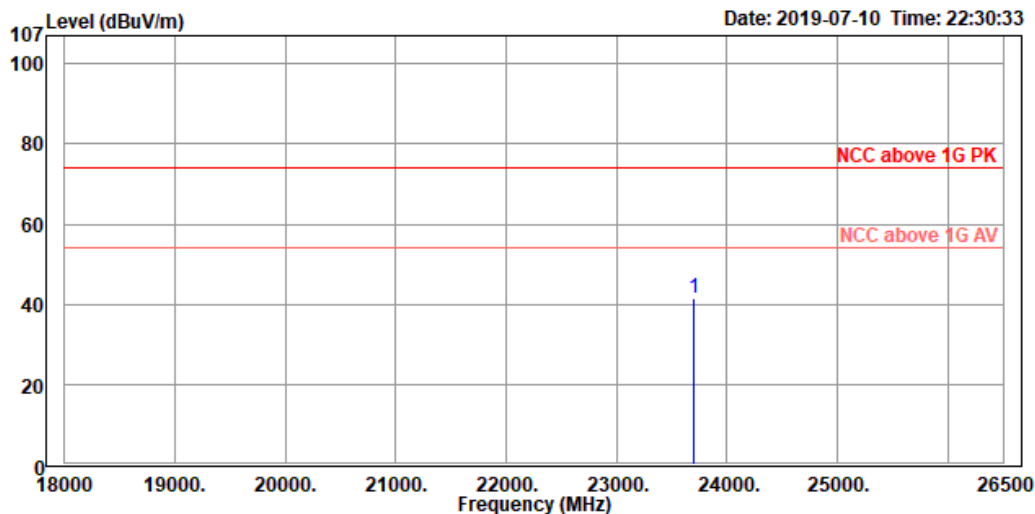
Site : 966A Chamber A  
Condition : NCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

	Freq	Read	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	1344.927	48.28	-10.25	38.03	74.00	-35.97	100	287	Peak	
2	1739.130	49.14	-10.08	39.06	74.00	-34.94	100	77	Peak	
3	2428.986	52.14	-8.11	44.03	74.00	-29.97	100	187	Peak	

# Spurious Emissions, RX Mode, 18-26G

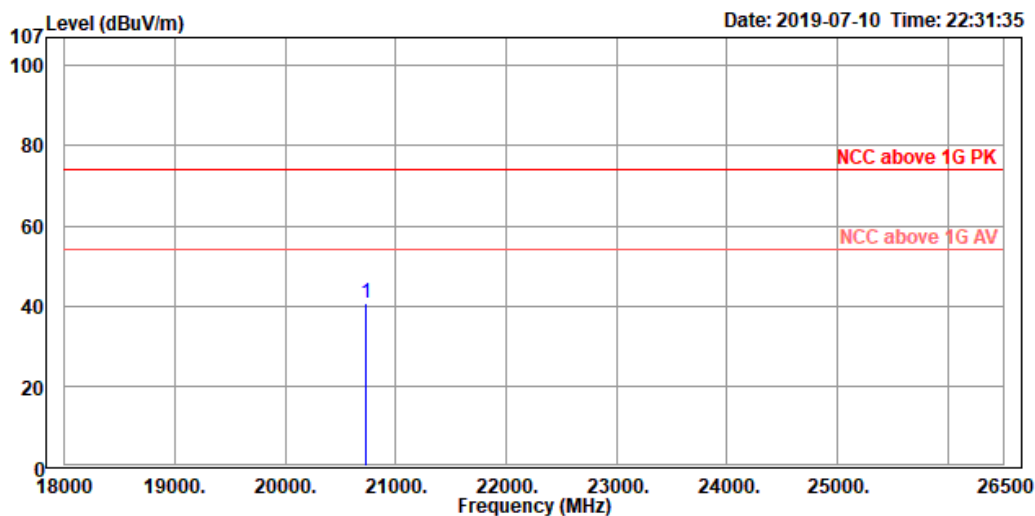


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Site : 966A Chamber A  
Condition : NCC above 1G PK 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	23703.620	40.33	1.18	41.51	74.00	-32.49	100	299	Peak



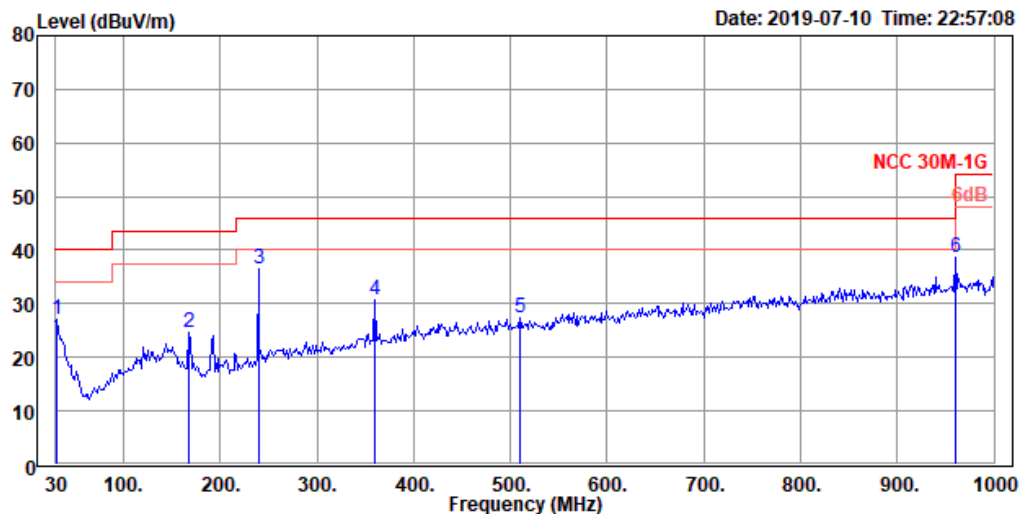
Site : 966A Chamber A  
Condition : NCC above 1G PK 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

	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	20722.460	41.57	-0.81	40.76	74.00	-33.24	100	231	Peak	

# Spurious Emissions, RX Mode, 30M-1G

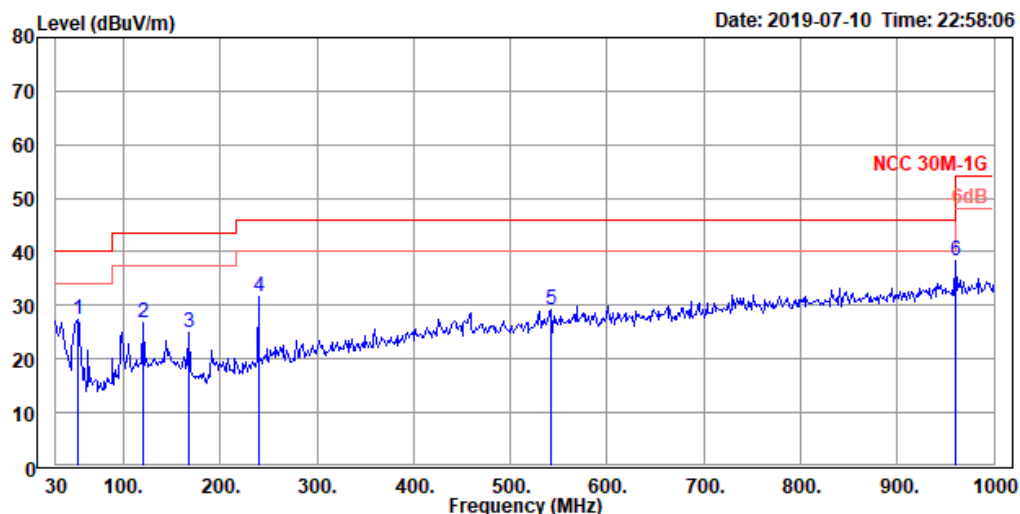


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Site : 966A Chamber A  
Condition : NCC 30M-1G 3m horizontal  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

	Freq	Read		Limit	Over	APos	TPos		
	MHz	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	31.406	27.64	-0.71	26.93	40.00	-13.07	100	344	QP
2	167.768	33.48	-8.73	24.75	43.50	-18.75	100	101	QP
3	239.464	43.17	-6.78	36.39	46.00	-9.61	100	254	QP
4	360.362	34.03	-3.22	30.81	46.00	-15.19	100	67	QP
5	509.377	28.51	-1.15	27.36	46.00	-18.64	100	254	QP
6	960.638	33.03	5.71	38.74	54.00	-15.26	100	227	QP



Site : 966A Chamber A  
Condition : NCC 30M-1G 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

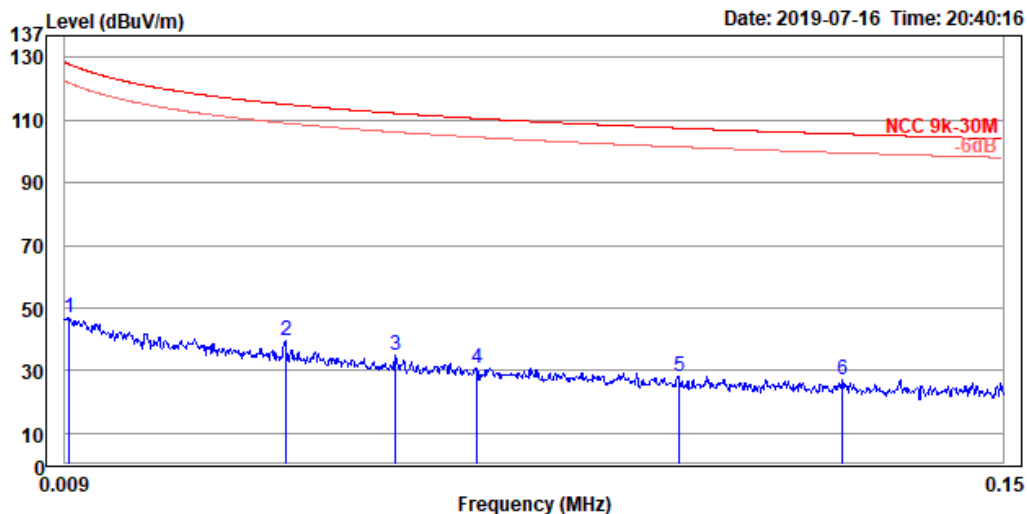
	Freq	Read	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	52.493	39.62	-12.13	27.49	40.00	-12.51	100	353	QP	
2	119.971	34.09	-7.40	26.69	43.50	-16.81	100	174	QP	
3	167.768	33.56	-8.73	24.83	43.50	-18.67	100	138	QP	
4	239.464	38.51	-6.78	31.73	46.00	-14.27	100	297	QP	
5	541.710	30.41	-1.06	29.35	46.00	-16.65	100	38	QP	
6	960.638	32.56	5.71	38.27	54.00	-15.73	100	258	QP	



# Spurious Emissions, RX Mode, 9k-30M

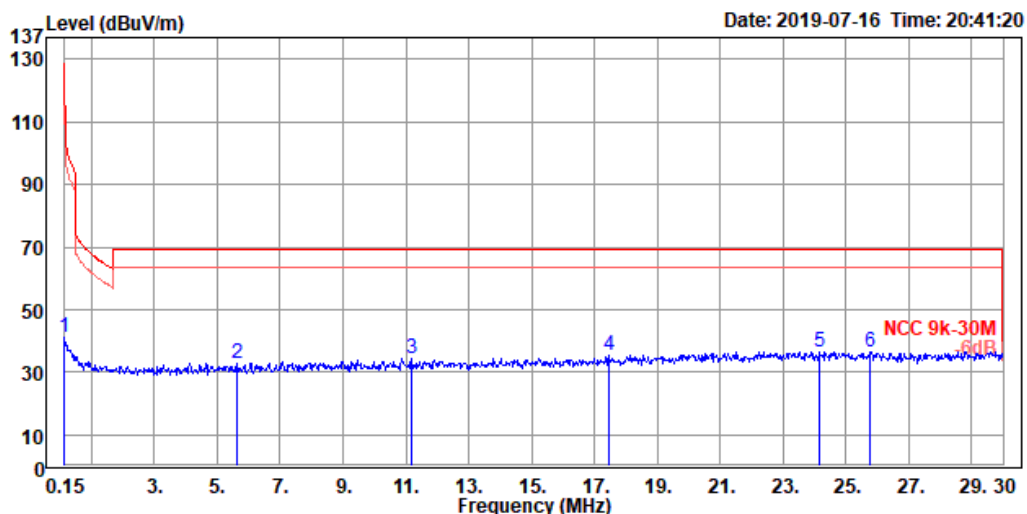


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Site : 966A Chamber A  
Condition : NCC 9k-30M 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

		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	0.010	28.81	18.03	46.84	127.97	-81.13	100	118	QP
2	0.042	20.66	18.92	39.58	115.10	-75.52	100	17	QP
3	0.059	15.99	18.67	34.66	112.23	-77.57	100	23	QP
4	0.071	12.30	18.39	30.69	110.58	-79.89	100	73	QP
5	0.101	10.40	17.70	28.10	107.49	-79.39	100	301	QP
6	0.126	9.26	17.81	27.07	105.60	-78.53	100	224	QP



Site : 966A Chamber A  
Condition : NCC 9k-30M 3m vertical  
Test Engineer: Kevin Kuo  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 3.3 Vdc  
Tmp/Hum : 25°C/54%  
Power Setting: NA(default)  
Mode : RX-2410  
Memo : X(側立)

	Freq	Read	Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg
1	0.150	23.37	17.91	41.28	104.08	-62.80	100	141 QP
2	5.642	13.50	19.48	32.98	69.50	-36.52	100	69 QP
3	11.195	14.01	20.52	34.53	69.50	-34.97	100	159 QP
4	17.463	14.35	21.14	35.49	69.50	-34.01	100	277 QP
5	24.179	15.10	21.59	36.69	69.50	-32.81	100	261 QP
6	25.791	14.95	21.66	36.61	69.50	-32.89	100	303 QP

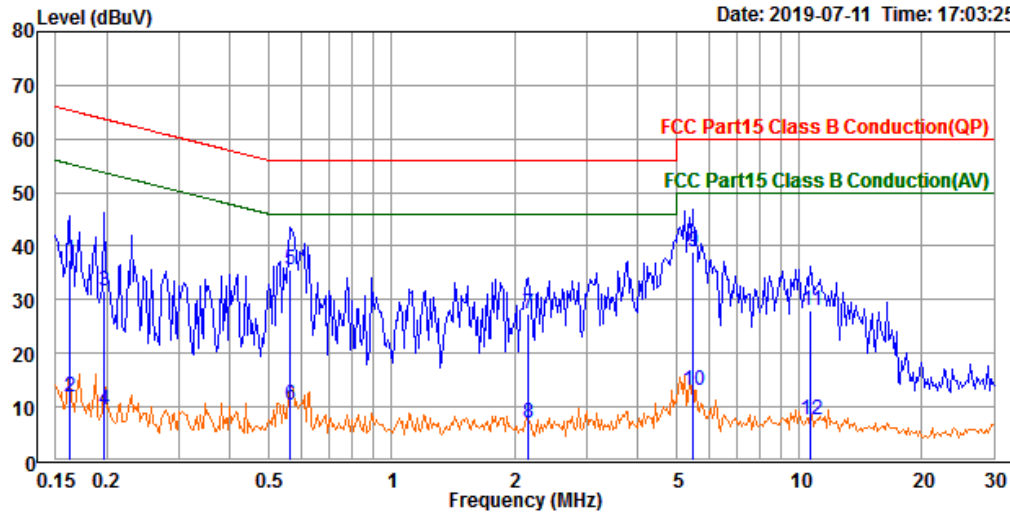
## AC mains



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File: C:\EMC\Report\2019\TRLPI238107300\_RF\238107300\_00029.EMI

Date: 2019-07-11 Time: 17:03:25



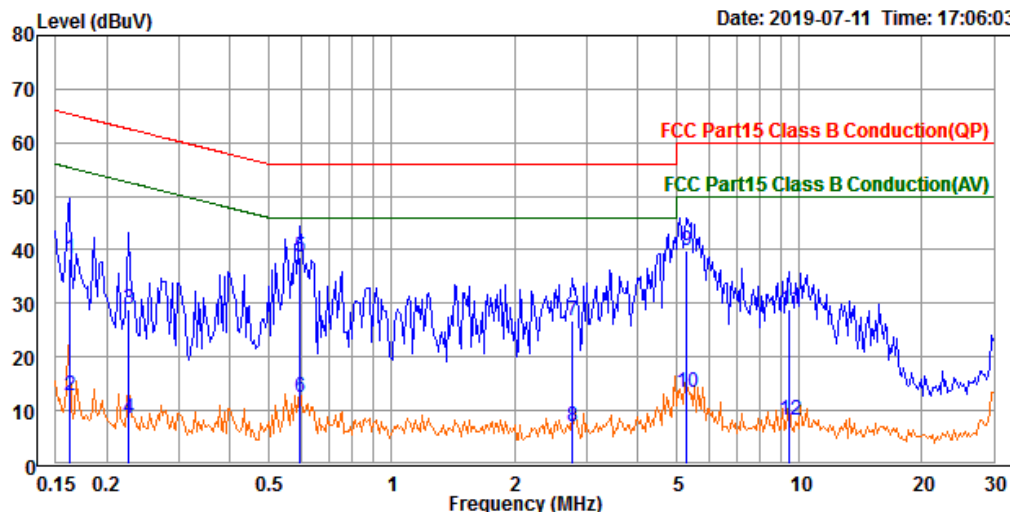
Trace: 1

Site : Conduction room  
Condition : FCC Part15 Class B Conduction(QP) line1  
Test Engineer: Amy Hsu  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 120Vac/60Hz  
Tmp/Hum : 23.4°C / 37%  
Power Setting: (NA)default  
Mode : TX 2404  
Memo : Y(直立)  
Adapter : Z10NE030

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	27.81	9.61	37.42	65.34	-27.92	QP
2	0.162	2.37	9.61	11.98	55.34	-43.36	Average
3	0.196	22.14	9.61	31.75	63.77	-32.02	QP
4	0.196	-0.22	9.61	9.39	53.77	-44.38	Average
5	0.563	25.87	9.62	35.49	56.00	-20.51	QP
6	0.563	0.86	9.62	10.48	46.00	-35.52	Average
7	2.153	17.72	9.64	27.36	56.00	-28.64	QP
8	2.153	-2.76	9.64	6.88	46.00	-39.12	Average
9	5.481	29.19	9.69	38.88	60.00	-21.12	QP
10	5.481	3.32	9.69	13.01	50.00	-36.99	Average
11	10.669	18.14	9.73	27.87	60.00	-32.13	QP
12	10.669	-2.20	9.73	7.53	50.00	-42.47	Average

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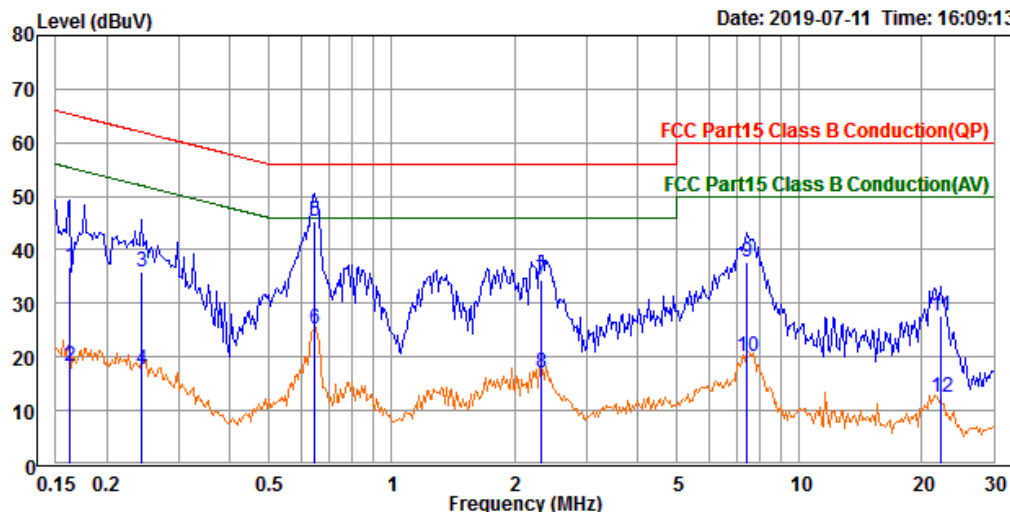
Trace: 1

Site : Conduction room  
Condition : FCC Part15 Class B Conduction(QP) neutral  
Test Engineer: Amy Hsu  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 120Vac/60Hz  
Tmp/Hum : 23.4°C / 37%  
Power Setting: (NA)default  
Mode : TX 2404  
Memo : Y(直立)  
Adapter : Z10NE030

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	28.62	9.62	38.24	65.34	-27.10	QP
2	0.162	3.05	9.62	12.67	55.34	-42.67	Average
3	0.225	19.33	9.62	28.95	62.61	-33.66	QP
4	0.225	-1.19	9.62	8.43	52.61	-44.18	Average
5	0.597	28.98	9.63	38.61	56.00	-17.39	QP
6	0.597	2.70	9.63	12.33	46.00	-33.67	Average
7	2.761	17.06	9.66	26.72	56.00	-29.28	QP
8	2.761	-2.78	9.66	6.88	46.00	-39.12	Average
9	5.268	30.02	9.70	39.72	60.00	-20.28	QP
10	5.268	3.69	9.70	13.39	50.00	-36.61	Average
11	9.470	19.26	9.74	29.00	60.00	-31.00	QP
12	9.470	-1.41	9.74	8.33	50.00	-41.67	Average

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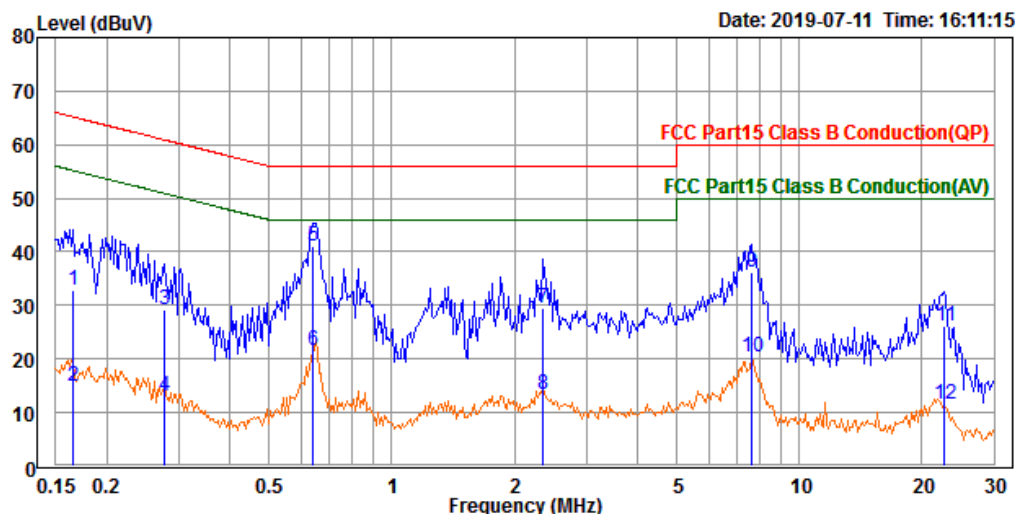


Trace: 1

Site : Conduction room  
Condition : FCC Part15 Class B Conduction(QP) line1  
Test Engineer: Amy Hsu  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 120Vac/60Hz  
Tmp/Hum : 23.4°C / 37%  
Power Setting: (NA)default  
Mode : TX 2404  
Memo : Y(直立)  
Adapter : Z10NA300

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.162	27.32	9.61	36.93	65.34	-28.41	QP
2	0.162	8.64	9.61	18.25	55.34	-37.09	Average
3	0.244	26.27	9.61	35.88	61.95	-26.07	QP
4	0.244	8.12	9.61	17.73	51.95	-34.22	Average
5	0.647	35.60	9.62	45.22	56.00	-10.78	QP
6	0.647	15.50	9.62	25.12	46.00	-20.88	Average
7	2.331	24.88	9.64	34.52	56.00	-21.48	QP
8	2.331	7.53	9.64	17.17	46.00	-28.83	Average
9	7.460	28.08	9.70	37.78	60.00	-22.22	QP
10	7.460	10.49	9.70	20.19	50.00	-29.81	Average
11	22.264	17.78	9.78	27.56	60.00	-32.44	QP
12	22.264	2.55	9.78	12.33	50.00	-37.67	Average

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Trace: 1

Site : Conduction room  
Condition : FCC Part15 Class B Conduction(QP) neutral  
Test Engineer: Amy Hsu  
Product : Radio Module  
Model No. : 23.A00L83  
Test Rating : 120Vac/60Hz  
Tmp/Hum : 23.4°C / 37%  
Power Setting: (NA)default  
Mode : TX 2404  
Memo : Y(直立)  
Adapter : Z10NA300

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.166	23.09	9.62	32.71	65.17	-32.46	QP
2	0.166	5.28	9.62	14.90	55.17	-40.27	Average
3	0.278	19.54	9.62	29.16	60.88	-31.72	QP
4	0.278	3.50	9.62	13.12	50.88	-37.76	Average
5	0.640	31.49	9.63	41.12	56.00	-14.88	QP
6	0.640	12.05	9.63	21.68	46.00	-24.32	Average
7	2.355	19.90	9.65	29.55	56.00	-26.45	QP
8	2.355	3.63	9.65	13.28	46.00	-32.72	Average
9	7.610	26.39	9.73	36.12	60.00	-23.88	QP
10	7.610	10.52	9.73	20.25	50.00	-29.75	Average
11	22.711	16.33	9.83	26.16	60.00	-33.84	QP
12	22.711	1.75	9.83	11.58	50.00	-38.42	Average