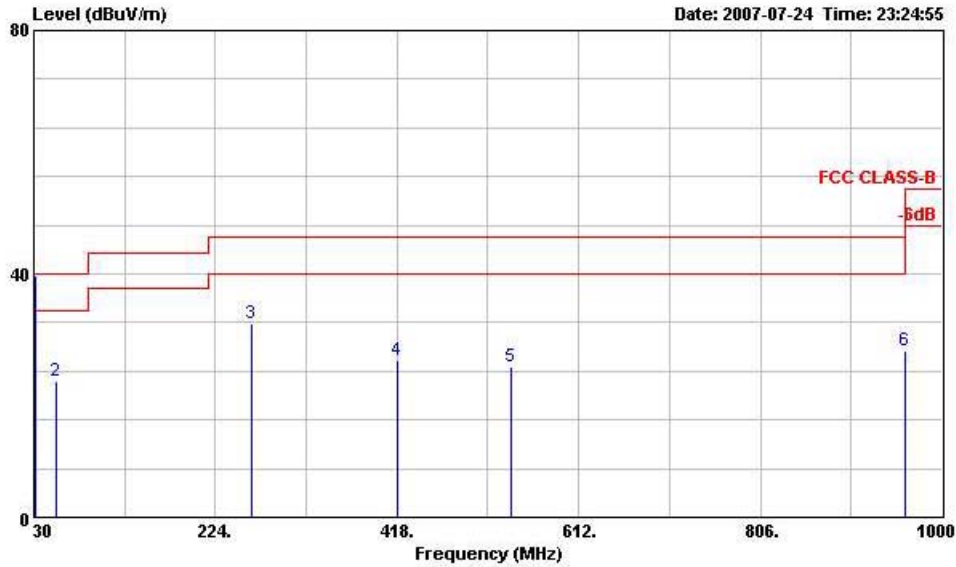




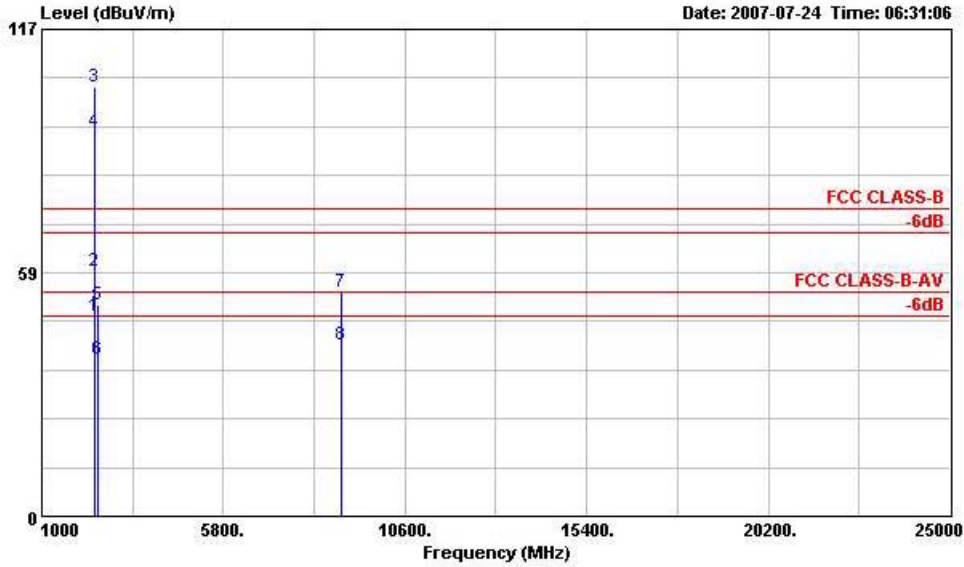
- Test Mode : Mode 4
- Polarization : Horizontal

**The test that passed at minimum margin was marked by the frame in the following table.**



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH01;2412MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.080	39.67	-0.33	40.00	55.60	16.36	0.64	32.93	126	302	OP
2	54.570	22.48	-17.52	40.00	48.96	5.57	0.82	32.88	---	---	Peak
3	262.740	31.80	-14.20	46.00	50.23	12.50	1.93	32.86	---	---	Peak
4	419.000	25.87	-20.13	46.00	40.32	15.97	2.39	32.81	---	---	Peak
5	539.400	24.78	-21.22	46.00	36.35	18.07	2.73	32.37	---	---	Peak
6	960.100	27.35	-26.65	54.00	30.02	25.04	3.61	31.32	---	---	Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH01;2412MHz  
 PLANE : E2  
 Data Rate: 54

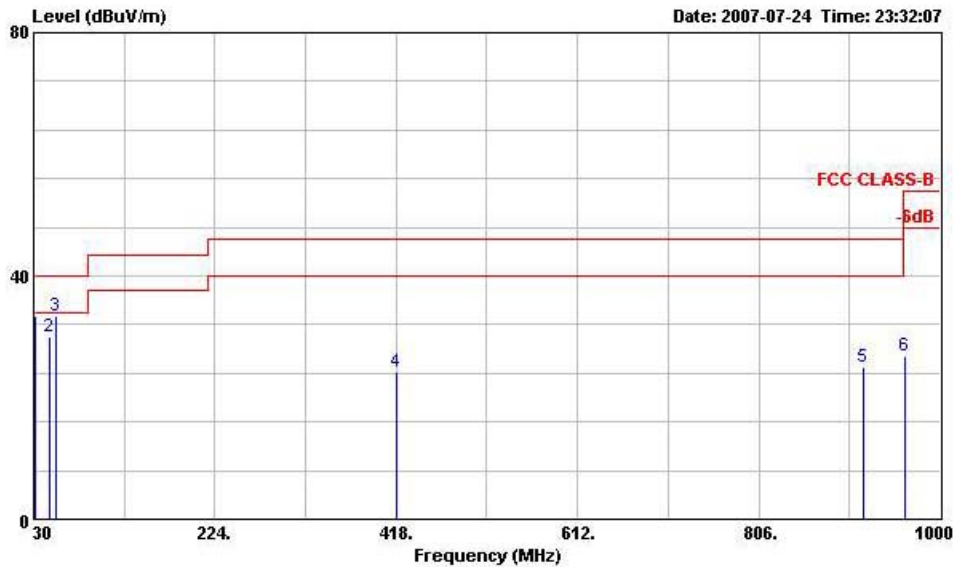
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2390.000	48.25	-5.75	54.00	50.22	28.07	33.78	100	54	Average
2	2390.000	58.77	-15.23	74.00	60.74	28.07	33.78	100	0	Peak
3	2412.000	103.28			105.19	28.11	33.78	100	0	Peak
4	2412.000	92.38			94.29	28.11	33.78	100	54	Average
5	2492.000	50.73	-23.27	74.00	52.39	28.30	33.80	100	0	Peak
6	2492.000	37.72	-16.28	54.00	39.38	28.30	33.80	100	54	Average
7	8925.000	53.70	-20.30	74.00	43.21	38.00	34.74	100	0	Peak
8	8925.000	41.29	-12.71	54.00	30.80	38.00	34.74	100	294	Average

Remark: #3 and #4 Fundamental Signal



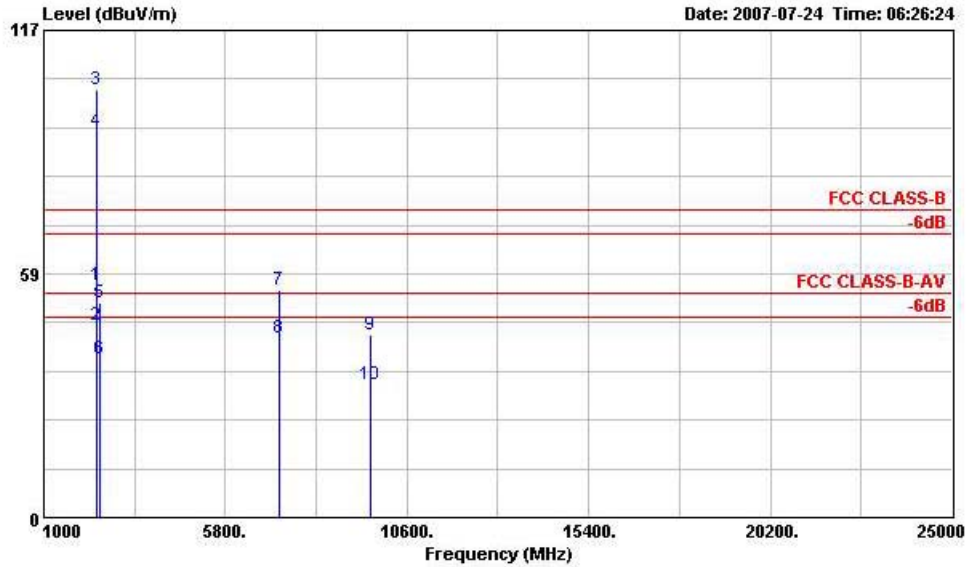
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 NOME : 11g Tx\_CH01;2412MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	Remark
					dBuV	dB/m	dB	dB	cm	deg	
1	31.890	33.52	-6.48	40.00	49.50	16.34	0.65	32.98	156	299	QP
2	47.820	30.04	-9.96	40.00	53.67	8.53	0.76	32.92	---	---	Peak
3	53.490	33.52	-6.48	40.00	59.66	5.93	0.81	32.88	---	---	Peak
4	419.000	24.11	-21.89	46.00	38.56	15.97	2.39	32.81	---	---	Peak
5	917.400	25.01	-20.99	46.00	28.89	23.95	3.59	31.43	---	---	Peak
6	962.900	26.77	-27.23	54.00	29.33	25.11	3.62	31.30	---	---	Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH01;2412MHz  
 PLANE : E2  
 Data Rate: 54

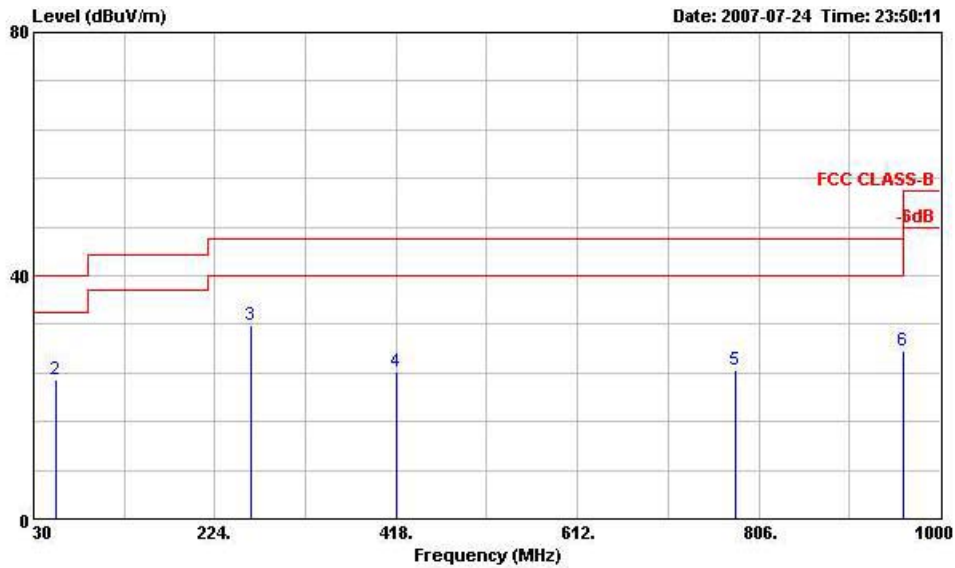
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2390.000	55.99	-18.01	74.00	57.96	28.07	3.74	33.78	100	0 Peak
2	2390.000	46.26	-7.74	54.00	48.23	28.07	3.74	33.78	100	333 Average
3 @	2412.000	102.83			104.74	28.11	3.76	33.78	100	0 Peak
4 @	2412.000	92.90			94.65	28.22	3.81	33.79	100	333 Average
5	2492.000	51.46	-22.54	74.00	53.12	28.30	3.84	33.80	100	0 Peak
6	2492.000	38.29	-15.71	54.00	39.95	28.30	3.84	33.80	100	333 Average
7	7236.000	54.54	-19.46	74.00	45.46	35.78	6.46	33.15	100	0 Peak
8	7236.000	43.18	-10.82	54.00	34.10	35.78	6.46	33.15	100	316 Average
9	9648.000	43.79	-30.21	74.00	81.28	-10.09	7.60	35.00	100	0 Peak
10	9648.000	32.03	-21.97	54.00	69.50	-10.07	7.60	35.00	100	103 Average

Remark: #3 and #4 Fundamental Signal



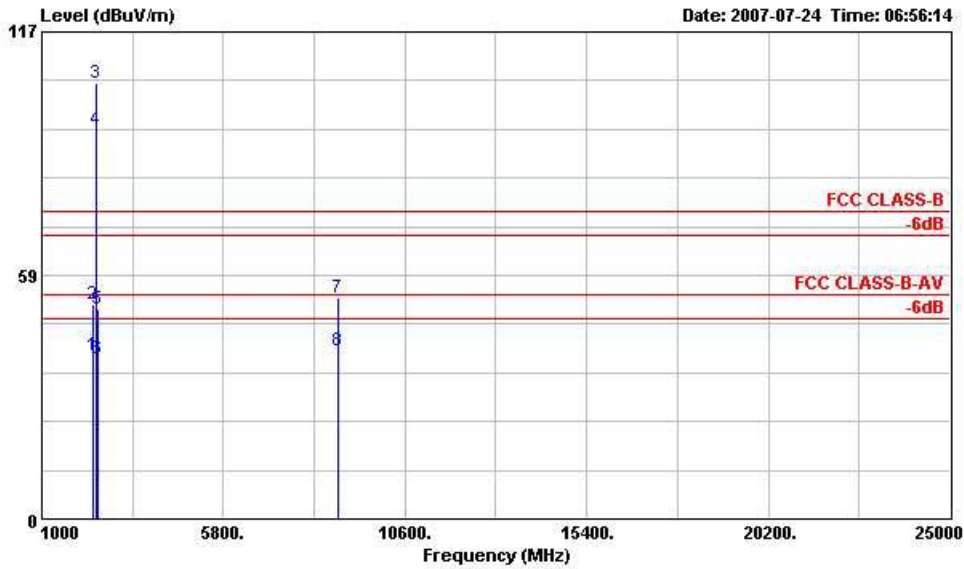
- Test Mode : Mode 5
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH06;2437MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	30.810	39.77	-0.23	40.00	55.70	16.36	0.64	32.93	146	354 QP
2	53.490	22.79	-17.21	40.00	48.93	5.93	0.81	32.88	---	Peak
3	262.740	31.75	-14.25	46.00	50.18	12.50	1.93	32.86	---	Peak
4	419.000	24.25	-21.75	46.00	38.70	15.97	2.39	32.81	---	Peak
5	780.200	24.44	-21.56	46.00	33.01	19.91	3.23	31.71	---	Peak
6	960.100	27.52	-26.48	54.00	30.19	25.04	3.61	31.32	---	Peak



Site : 03CHO4-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :ET\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH06;2437MHz  
 PLANE : E2  
 Data Rate: 54

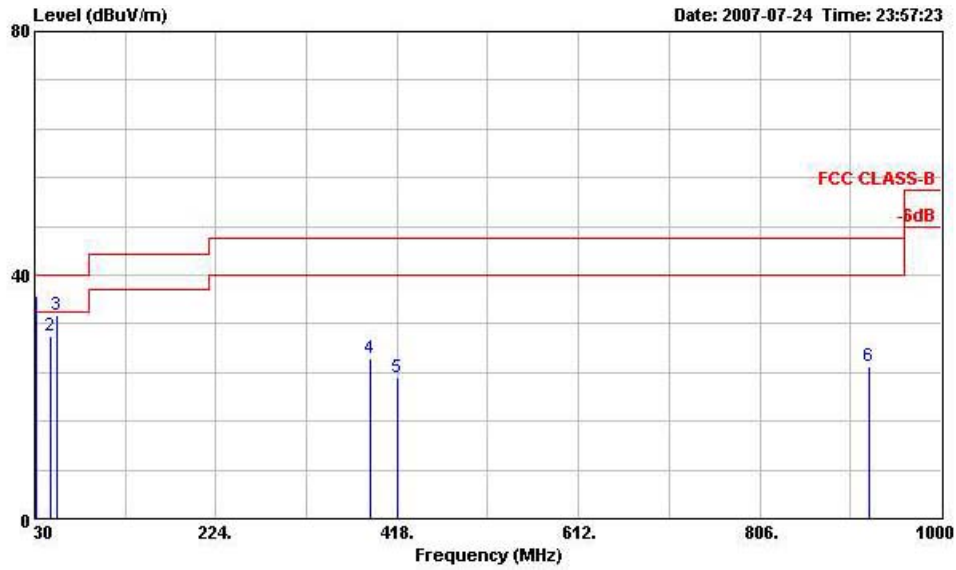
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2372.000	39.23	-14.77	54.00	41.26	28.03	3.71	33.78	120	47 Average
2	2372.000	51.71	-22.29	74.00	53.74	28.03	3.71	33.78	100	0 Peak
3 @	2437.000	104.55			106.36	28.19	3.79	33.79	100	0 Peak
4 @	2437.000	93.68			95.49	28.19	3.79	33.79	120	47 Average
5	2484.000	50.32	-23.68	74.00	52.02	28.26	3.84	33.80	100	0 Peak
6	2484.000	38.39	-15.61	54.00	40.09	28.26	3.84	33.80	120	47 Average
7	8850.000	52.94	-21.06	74.00	42.50	37.92	7.20	34.68	100	0 Peak
8	8850.000	40.54	-13.46	54.00	30.10	37.92	7.20	34.68	100	289 Average

Remark: #3 and #4 Fundamental Signal



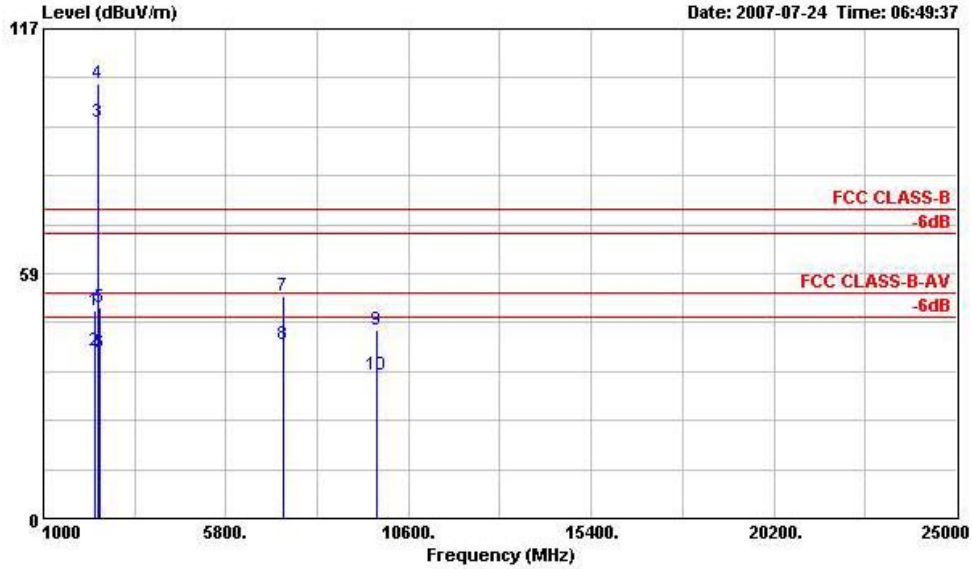
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH06;2437MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	31.890	36.57	-3.43	40.00	52.55	16.34	0.65	32.98	178	288 QP
2	47.820	30.12	-9.88	40.00	53.75	8.53	0.76	32.92	---	---
3	53.490	33.32	-6.68	40.00	59.46	5.93	0.81	32.88	---	---
4	388.900	26.37	-19.63	46.00	41.56	15.38	2.29	32.85	---	---
5	419.000	23.11	-22.89	46.00	37.56	15.97	2.39	32.81	---	---
6	923.000	25.03	-20.97	46.00	28.77	24.10	3.59	31.43	---	---



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH06;2437MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2372.000	49.83	-24.17	74.00	51.86	28.03	3.71	33.78	100	0 Peak
2	2372.000	39.95	-14.05	54.00	41.98	28.03	3.71	33.78	106	92 Average
3 @	2437.000	94.57			96.38	28.19	3.79	33.79	106	92 Average
4 @	2437.000	103.88			105.73	28.15	3.79	33.79	100	0 Peak
5	2486.000	50.40	-23.60	74.00	52.10	28.26	3.84	33.80	100	0 Peak
6	2486.000	39.77	-14.23	54.00	41.47	28.26	3.84	33.80	106	92 Average
7	7311.000	53.03	-20.97	74.00	43.88	35.94	6.48	33.28	100	0 Peak
8	7311.000	41.55	-12.45	54.00	32.40	35.94	6.48	33.28	100	341 Average
9	9748.000	44.85	-29.15	74.00	82.03	-9.85	7.67	35.00	100	0 Peak
10	9748.000	34.40	-19.60	54.00	71.60	-9.85	7.65	35.00	100	345 Average

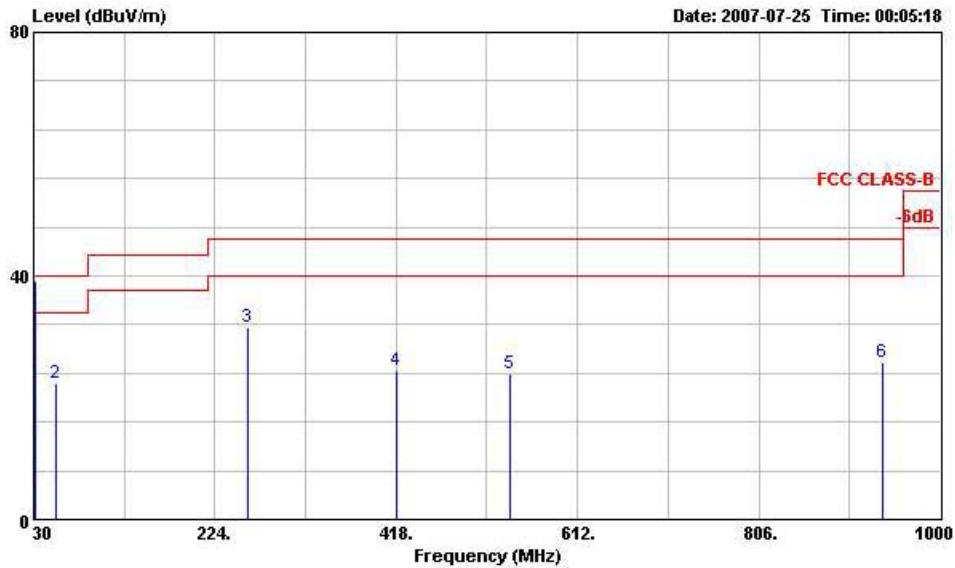
Remark: #3 and #4 Fundamental Signal





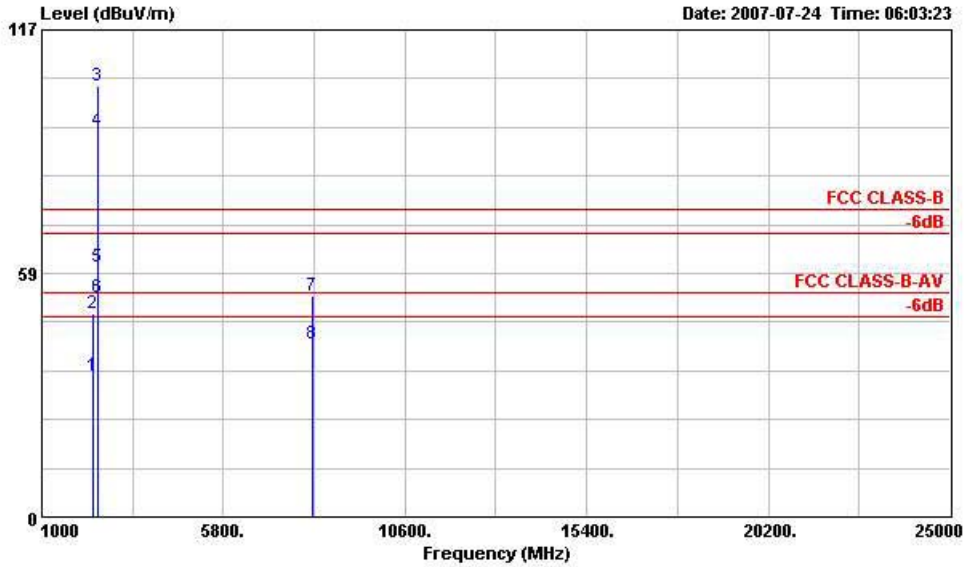
- Test Mode : Mode 6
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH11;2462MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	31.080	39.17	-0.83	40.00	55.10	16.36	0.64	32.93	156	360 QP
2	53.490	22.27	-17.73	40.00	48.41	5.93	0.81	32.88	---	--- Peak
3	259.770	31.68	-14.32	46.00	50.10	12.52	1.93	32.87	---	--- Peak
4	419.000	24.39	-21.61	46.00	38.84	15.97	2.39	32.81	---	--- Peak
5	539.400	23.90	-22.10	46.00	35.47	18.07	2.73	32.37	---	--- Peak
6	937.700	25.70	-20.30	46.00	29.07	24.47	3.58	31.42	---	--- Peak



Site : 03CHO4-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :ET\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH11;2462MHz  
 PLANE : E2  
 Data Rate: 54

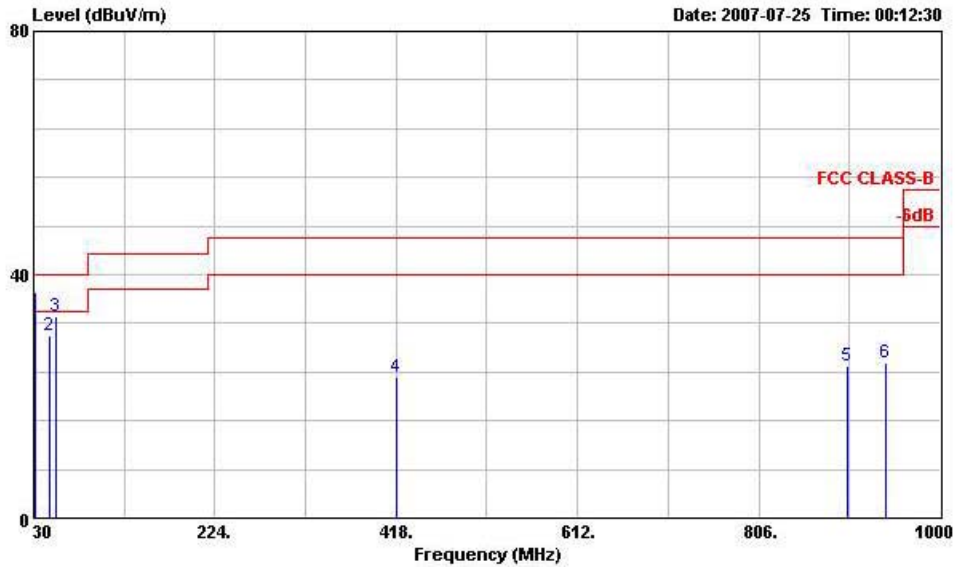
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2340.000	33.88	-20.12	54.00	36.00	27.96	3.69	33.77	103	308 Average
2	2340.000	48.95	-25.05	74.00	51.07	27.96	3.69	33.77	100	0 Peak
3 @	2462.000	103.38			105.14	28.22	3.81	33.80	100	0 Peak
4 @	2462.000	92.61			94.36	28.22	3.81	33.79	103	308 Average
5	2483.500	60.20	-13.80	74.00	61.90	28.26	3.84	33.80	100	0 Peak
6 !	2483.500	52.79	-1.21	54.00	54.49	28.26	3.84	33.80	103	308 Average
7	8133.000	53.17	-20.83	74.00	43.17	36.99	6.82	33.81	100	0 Peak
8	8133.000	41.50	-12.50	54.00	31.50	36.99	6.82	33.81	100	225 Average

Remark: #3 and #4 Fundamental Signal



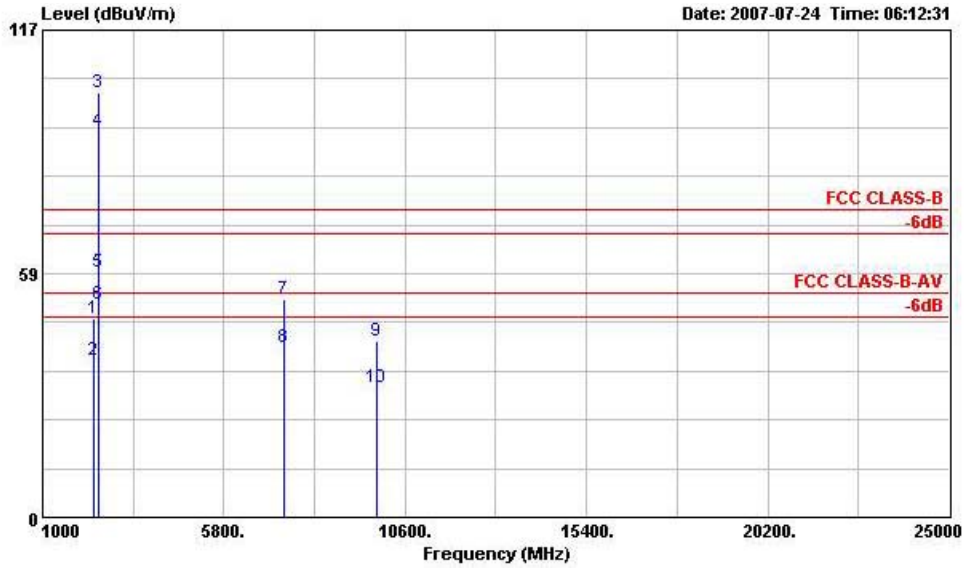
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH11;2462MHz  
 PLANE : E2  
 Data Rate: 54

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	31.890	37.22	-2.78	40.00	53.20	16.34	0.65	32.98	144	314 QP
2	47.820	29.92	-10.08	40.00	53.55	8.53	0.76	32.92	---	Peak
3	54.300	33.04	-6.96	40.00	59.52	5.57	0.82	32.88	---	Peak
4	419.000	23.20	-22.80	46.00	37.65	15.97	2.39	32.81	---	Peak
5	901.300	25.10	-20.90	46.00	29.39	23.53	3.60	31.43	---	Peak
6	942.600	25.43	-20.57	46.00	28.68	24.60	3.57	31.42	---	Peak



Site : 03CHO4-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : 11g Tx\_CH11;2462MHz  
 PLANE : E2  
 Data Rate: 54

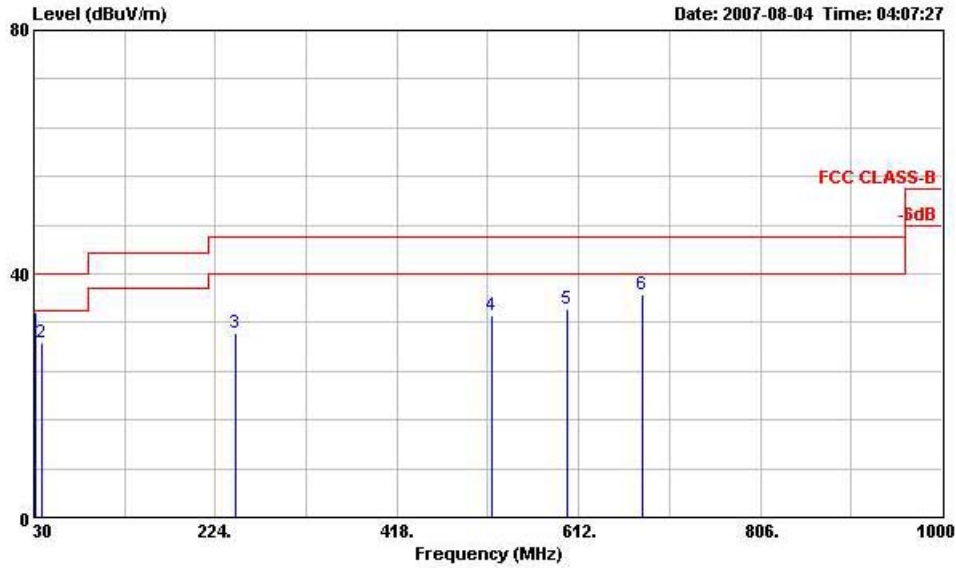
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	Loss	Factor	Pos	Pos	Remark
					dB/m	dB	dB	cm	deg	
1	2366.000	47.62	-26.38	74.00	49.69	28.00	3.71	33.78	100	0 Peak
2	2366.000	37.61	-16.39	54.00	39.68	28.00	3.71	33.78	104	93 Average
3 @	2462.000	101.85			103.60	28.22	3.81	33.79	100	0 Peak
4 @	2462.000	92.92			94.67	28.22	3.81	33.79	104	93 Average
5	2483.500	58.75	-15.25	74.00	60.45	28.26	3.84	33.80	100	0 Peak
6 !	2483.500	51.15	-2.85	54.00	52.85	28.26	3.84	33.80	104	93 Average
7	7386.000	52.50	-21.50	74.00	43.38	36.15	6.51	33.54	100	0 Peak
8	7386.000	40.89	-13.11	54.00	31.70	36.15	6.51	33.48	100	342 Average
9	9848.000	42.38	-31.62	74.00	79.29	-9.63	7.72	35.00	100	0 Peak
10	9848.000	31.19	-22.81	54.00	68.10	-9.63	7.72	35.00	100	269 Average

Remark: #3 and #4 Fundamental Signal



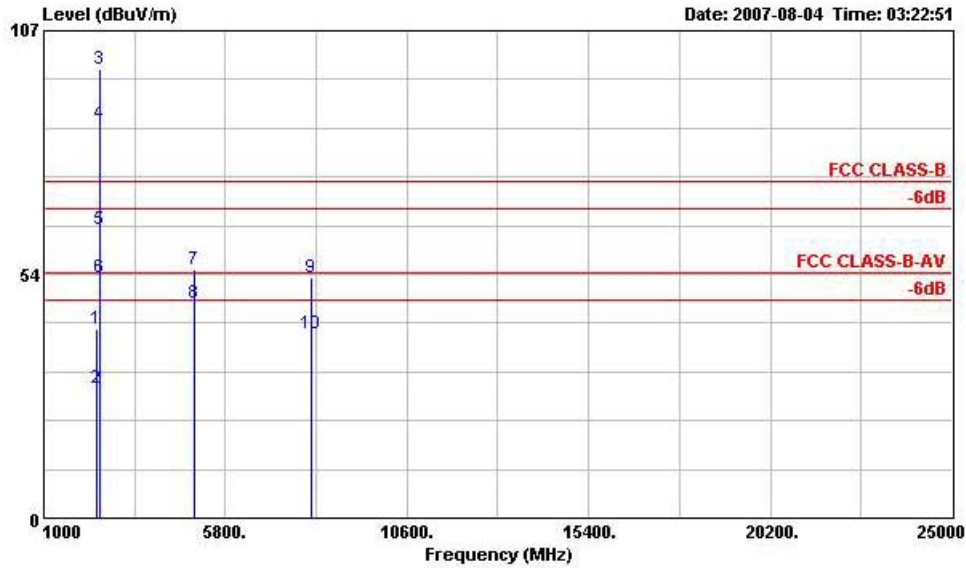
- Test Mode : Mode 9
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table		
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark	
			dB	dBuV/m	dBuV	dB	dB	cm	deg		
1 @	31.080	33.59	-6.41	40.00	49.52	16.36	0.64	32.93	100	298 Peak	
2	39.180	28.58	-11.42	40.00	48.10	12.71	0.71	32.94	---	---	Peak
3	245.460	30.38	-15.62	46.00	49.18	12.20	1.87	32.87	---	---	Peak
4	519.800	33.20	-12.80	46.00	45.55	17.49	2.67	32.51	---	---	Peak
5	598.900	34.33	-11.67	46.00	44.13	19.84	2.82	32.45	---	---	Peak
6	680.100	36.47	-9.53	46.00	45.30	20.09	3.13	32.05	---	---	Peak



Site :03CH04-HY  
 Condition:FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT :PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER :110Vac/60Hz  
 MODEL :TR 771809  
 MOME :Bluetooth Tx\_Ch78;2480MHz  
 PLANE :E2  
 Data Rate:DHS

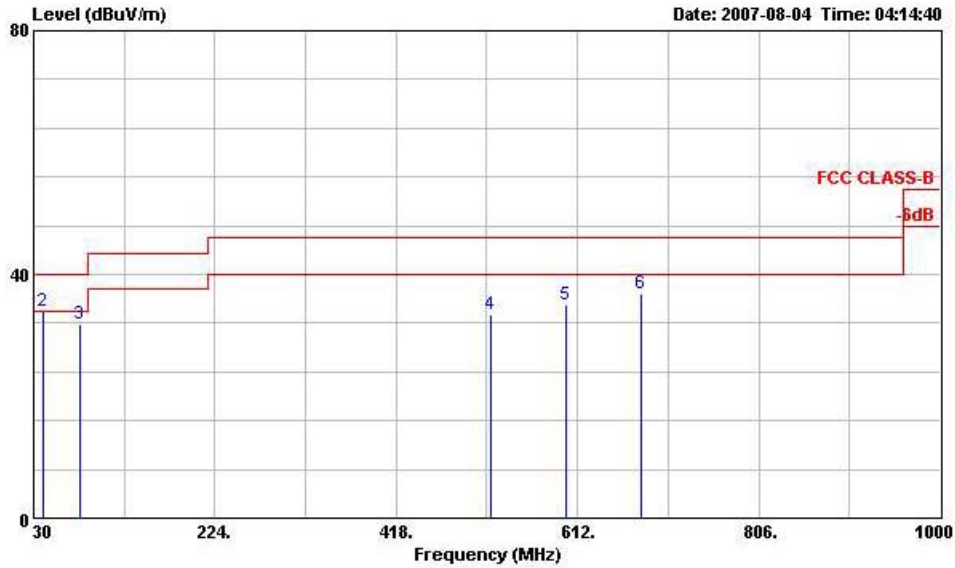
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2382.000	41.58	-32.42	74.00	43.58	28.03	3.74	33.78	100	0 Peak
2	2382.000	28.57	-25.43	54.00	30.57	28.03	3.74	33.78	100	20 Average
3 @	2480.000	98.65			100.35	28.26	3.84	33.80	100	0 Peak
4 @	2480.000	86.54			88.24	28.26	3.84	33.80	100	20 Average
5	2483.500	63.20	-10.80	74.00	64.90	28.26	3.84	33.80	100	0 Peak
6 @	2483.500	52.82	-1.18	54.00	54.52	28.26	3.84	33.80	100	20 Average
7	4960.000	54.62	-19.38	74.00	49.82	33.14	5.96	34.30	100	0 Peak
8	4960.000	47.07	-6.93	54.00	42.27	33.14	5.96	34.30	100	7 Average
9	8085.000	52.94	-21.06	74.00	42.95	36.92	6.80	33.73	100	0 Peak
10	8085.000	40.49	-13.51	54.00	30.50	36.92	6.80	33.73	100	256 Average

Remark: #3 and #4 Fundamental Signal



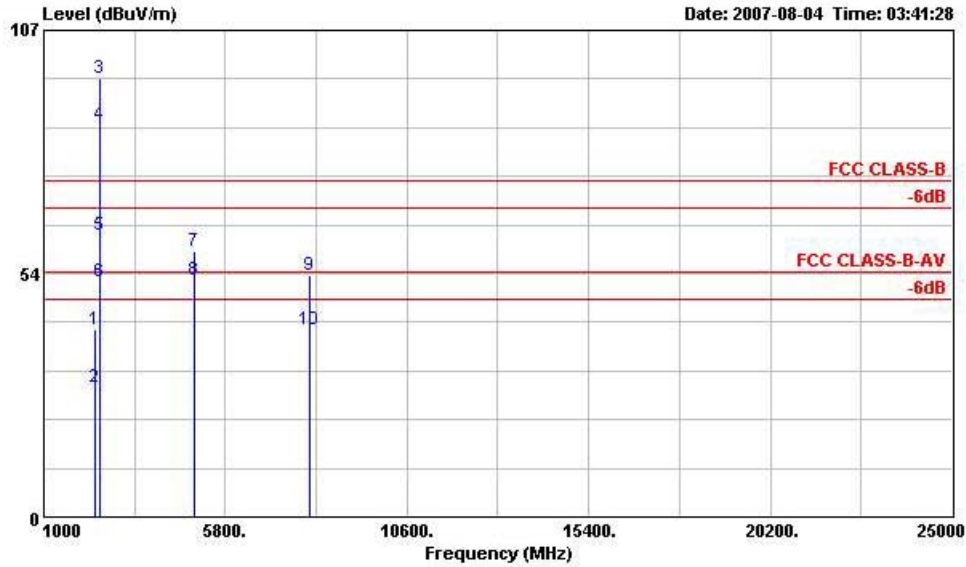
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 HOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	30.540	35.27	-4.73	40.00	51.20	16.36	0.64	32.93	134	360 QP
2 @	39.450	33.93	-6.07	40.00	54.30	11.82	0.71	32.90	122	287 QP
3	79.410	31.87	-8.13	40.00	56.72	6.93	1.03	32.81	---	--- Peak
4	519.800	33.38	-12.62	46.00	45.73	17.49	2.67	32.51	---	--- Peak
5	598.900	35.01	-10.99	46.00	44.81	19.84	2.82	32.45	---	--- Peak
6	680.100	36.78	-9.22	46.00	45.61	20.09	3.13	32.05	---	--- Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: DHS

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2366.000	41.34	-32.66	74.00	43.41	28.00	3.71	33.78	100	0 Peak
2	2366.000	28.33	-25.67	54.00	30.40	28.00	3.71	33.78	105	226 Average
3 @	2480.000	96.53	22.53	74.00	98.23	28.26	3.84	33.80	100	0 Peak
4 @	2480.000	86.37			88.07	28.26	3.84	33.80	105	226 Average
5	2483.500	61.86			63.56	28.26	3.84	33.80	100	0 Peak
6 @	2483.500	51.84	-2.16	54.00	53.54	28.26	3.84	33.80	105	226 Average
7	4960.000	58.48	-15.52	74.00	53.68	33.14	5.96	34.30	100	0 Peak
8 @	4960.000	52.19	-1.81	54.00	47.39	33.14	5.96	34.30	100	338 Average
9	8037.000	53.27	-20.73	74.00	43.29	36.85	6.77	33.64	100	0 Peak
10	8037.000	41.18	-12.82	54.00	31.20	36.85	6.77	33.64	100	266 Average

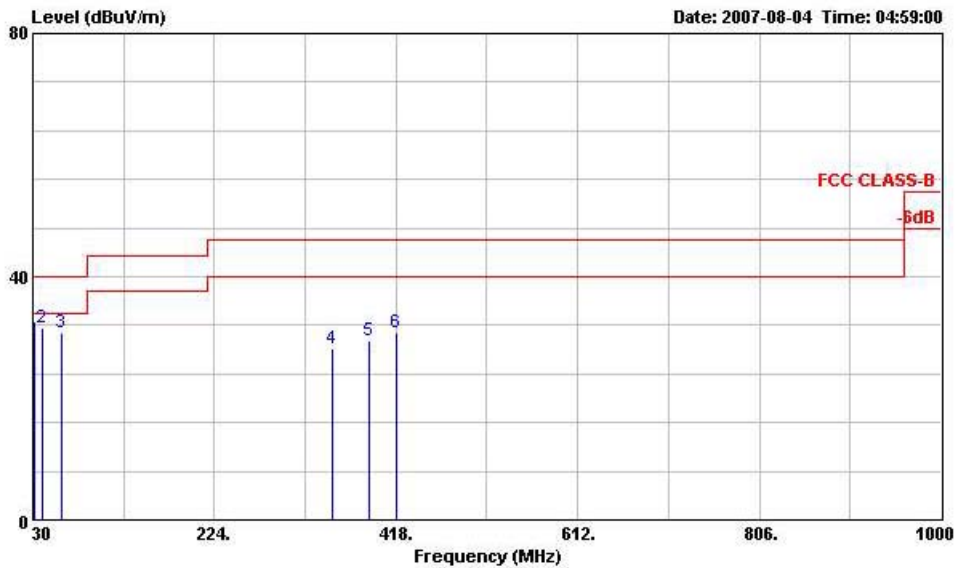
Remark: #3 and #4 Fundamental Signal





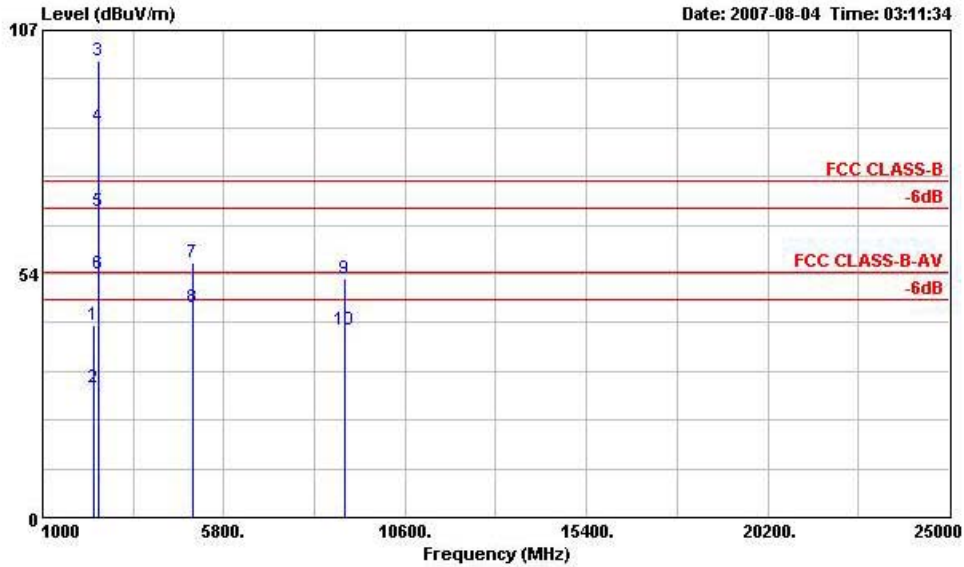
- Test Mode : Mode 12
- Polarization : Horizontal

**The test that passed at minimum margin was marked by the frame in the following table.**



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 2-DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table		
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	31.890	32.68	-7.32	40.00	48.66	16.34	0.65	32.98	100	320	Peak
2	39.450	31.48	-8.52	40.00	51.85	11.82	0.71	32.90	---	---	Peak
3	60.780	30.87	-9.13	40.00	59.20	3.62	0.86	32.81	---	---	Peak
4	349.700	28.07	-17.93	46.00	44.72	14.05	2.13	32.83	---	---	Peak
5	388.900	29.37	-16.63	46.00	44.56	15.38	2.29	32.85	---	---	Peak
6	419.000	30.70	-15.30	46.00	45.15	15.97	2.39	32.81	---	---	Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 2-DH5

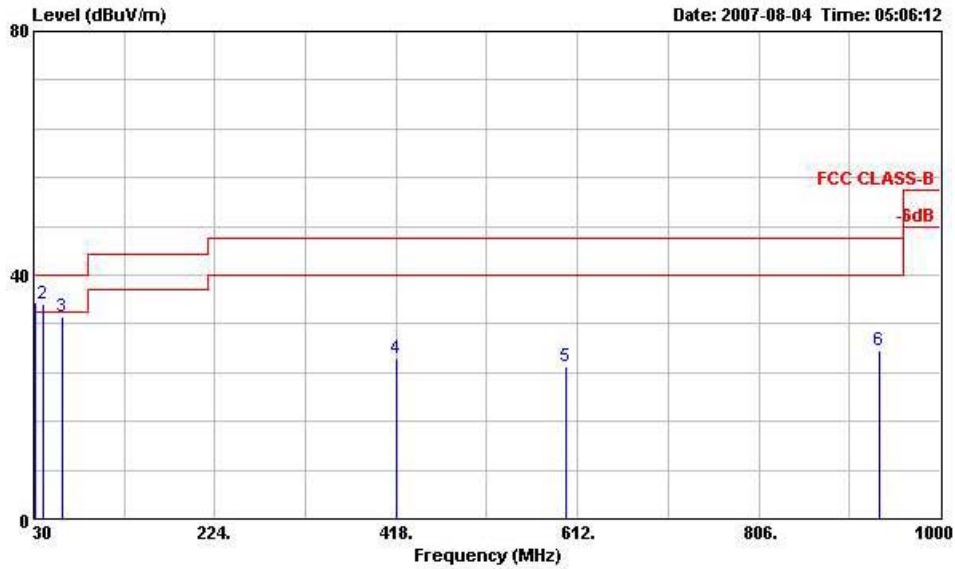
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2366.000	42.20	-31.80	74.00	44.27	28.00	3.71	33.78	100	0 Peak
2	2366.000	28.33	-25.67	54.00	30.40	28.00	3.71	33.78	100	19 Average
3 @	2480.000	100.24			101.94	28.26	3.84	33.80	100	0 Peak
4 @	2480.000	85.99			87.69	28.26	3.84	33.80	100	19 Average
5 @	2483.500	67.26	-6.74	74.00	68.96	28.26	3.84	33.80	100	0 Peak
6 @	2483.500	53.37	-0.63	54.00	55.07	28.26	3.84	33.80	100	19 Average
7	4960.000	55.83	-18.17	74.00	51.03	33.14	5.96	34.30	100	0 Peak
8	4960.000	45.96	-8.04	54.00	41.16	33.14	5.96	34.30	100	6 Average
9	8994.000	52.62	-21.38	74.00	42.05	38.08	7.27	34.78	100	0 Peak
10	8994.000	41.17	-12.83	54.00	30.60	38.08	7.27	34.78	100	244 Average

Remark: #3 and #4 Fundamental Signal



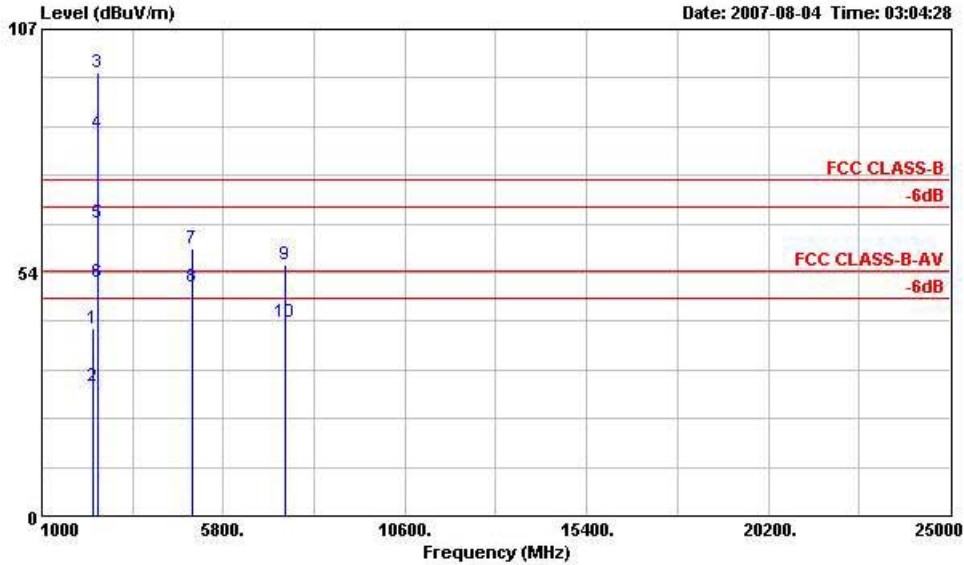
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 2-DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table		
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark	
					Factor	Factor		cm	deg		
1 @	31.890	35.58	-4.42	40.00	51.56	16.34	0.65	32.98	---	---	Peak
2 @	39.450	35.19	-4.81	40.00	55.56	11.82	0.71	32.90	132	356	QP
3 @	61.050	33.09	-6.91	40.00	61.42	3.62	0.86	32.81	115	277	QP
4	419.000	26.24	-19.76	46.00	40.69	15.97	2.39	32.81	---	---	Peak
5	598.900	24.92	-21.08	46.00	34.72	19.84	2.82	32.45	---	---	Peak
6	934.200	27.67	-18.33	46.00	31.14	24.37	3.58	31.42	---	---	Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 2-DH5

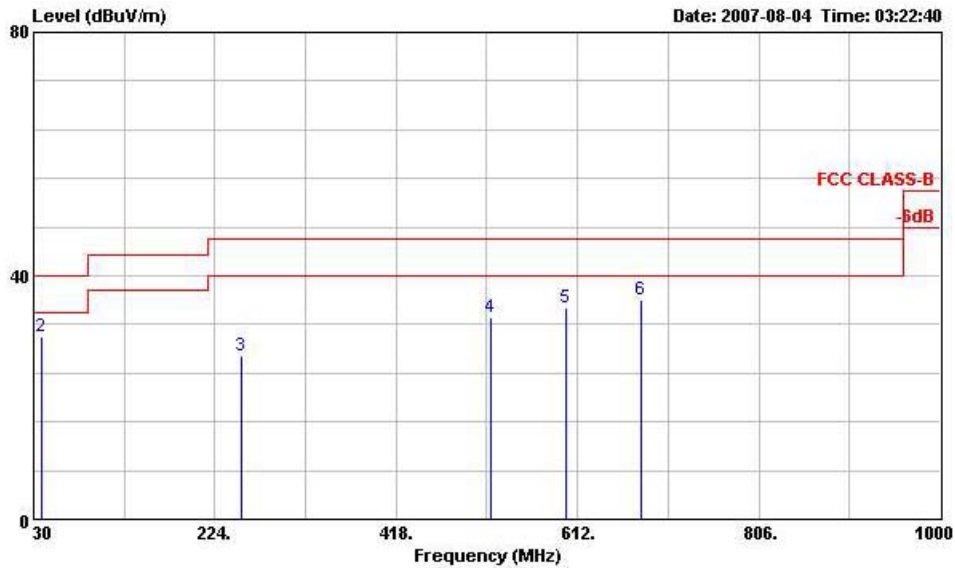
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2340.000	41.30	-32.70	74.00	43.42	27.96	3.69	33.77	100	0 Peak
2	2340.000	28.60	-25.40	54.00	30.72	27.96	3.69	33.77	100	219 Average
3 @	2480.000	97.34			99.04	28.26	3.84	33.80	100	0 Peak
4 @	2480.000	84.26			85.96	28.26	3.84	33.80	100	219 Average
5	2483.500	64.58	-9.42	74.00	66.28	28.26	3.84	33.80	100	0 Peak
6 @	2483.500	51.40	-2.60	54.00	53.10	28.26	3.84	33.80	100	219 Average
7	4960.000	58.68	-15.32	74.00	53.88	33.14	5.96	34.30	100	0 Peak
8 @	4960.000	50.48	-3.52	54.00	45.68	33.14	5.96	34.30	101	338 Average
9	7440.000	55.23	-18.77	74.00	46.03	36.28	6.53	33.61	100	0 Peak
10	7440.000	42.64	-11.36	54.00	33.50	36.28	6.53	33.67	100	263 Average

Remark: #3 and #4 Fundamental Signal



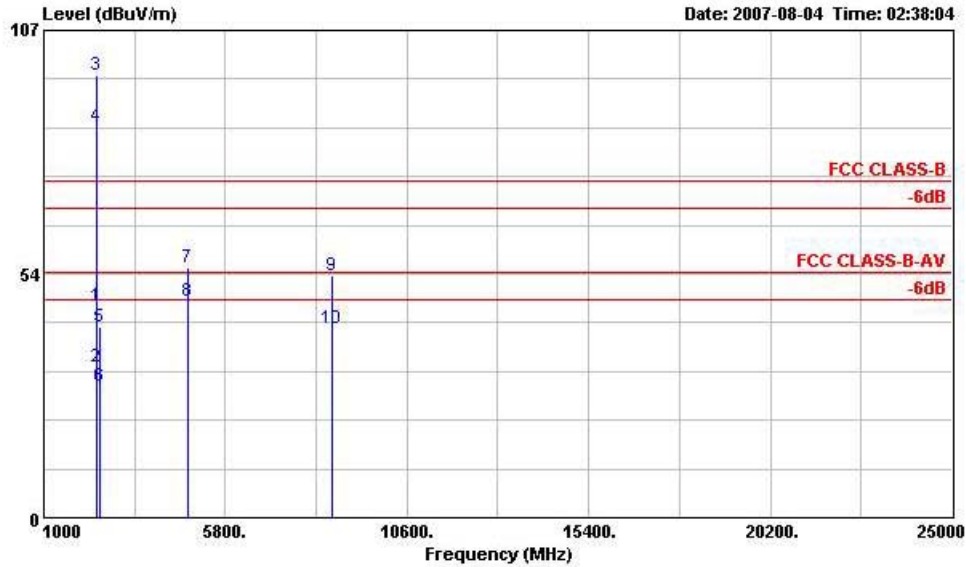
- Test Mode : Mode 13
- Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch00;2402MHz  
 PLANE : E2  
 Data Rate: 3-DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	30.810	33.09	-6.91	40.00	49.02	16.36	0.64	32.93	100	265 Peak
2	39.180	30.02	-9.98	40.00	49.54	12.71	0.71	32.94	---	---
3	252.210	26.81	-19.19	46.00	45.22	12.56	1.91	32.88	---	---
4	519.800	33.16	-12.84	46.00	45.51	17.49	2.67	32.51	---	---
5	598.900	34.75	-11.25	46.00	44.55	19.84	2.82	32.45	---	---
6	680.100	36.15	-9.85	46.00	44.98	20.09	3.13	32.05	---	---



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch00;2402MHz  
 PLANE : E2  
 Data Rate: 3-DH5

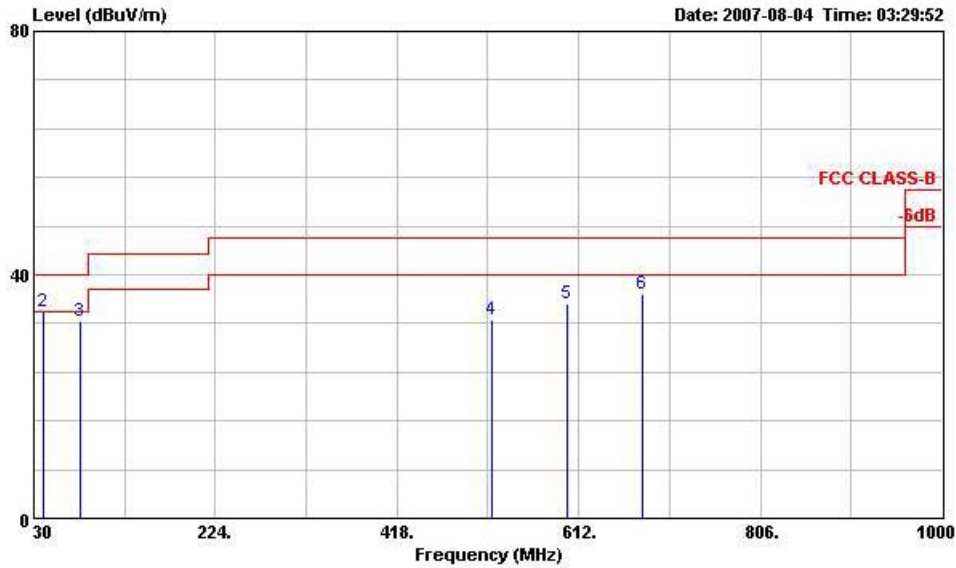
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	2384.860	46.55	-27.45	74.00	48.52	28.07	3.74	33.78	100	0 Peak
2	2384.860	33.02	-20.98	54.00	35.02	28.03	3.74	33.78	108	190 Average
3 @	2402.000	97.24			99.17	28.11	3.74	33.78	100	0 Peak
4 @	2402.000	85.96			87.93	28.07	3.74	33.78	108	190 Average
5	2492.000	41.92	-32.08	74.00	43.58	28.30	3.84	33.80	100	0 Peak
6	2492.000	29.00	-25.00	54.00	30.66	28.30	3.84	33.80	108	190 Average
7	4804.000	54.99	-19.01	74.00	50.55	32.86	5.88	34.30	100	0 Peak
8 @	4804.000	47.59	-6.41	54.00	43.17	32.86	5.86	34.30	100	150 Average
9	8622.000	53.32	-20.68	74.00	43.10	37.64	7.08	34.50	100	0 Peak
10	8622.000	41.42	-12.58	54.00	31.20	37.64	7.08	34.50	100	236 Average

Remark: #3 and #4 Fundamental Signal



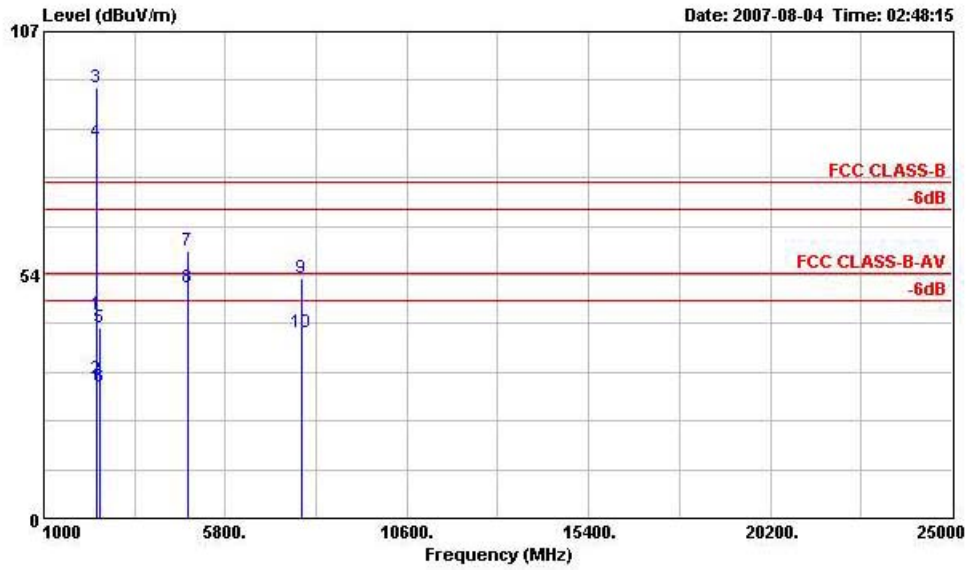
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CHO4-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch00;2402MHz  
 PLANE : E2  
 Data Rate: 3-DHS

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1 @	30.810	35.87	-4.13	40.00	51.80	16.36	0.64	32.93	113	360 QP
2 @	39.450	34.01	-5.99	40.00	54.38	11.82	0.71	32.90	136	345 QP
3	79.410	32.25	-7.75	40.00	57.10	6.93	1.03	32.81	---	--- Peak
4	519.800	32.63	-13.37	46.00	44.98	17.49	2.67	32.51	---	--- Peak
5	598.900	35.32	-10.68	46.00	45.12	19.84	2.82	32.45	---	--- Peak
6	680.100	36.89	-9.11	46.00	45.72	20.09	3.13	32.05	---	--- Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :ET\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch00;2402MHz  
 PLANE : E2  
 Data Rate: 3-DH5

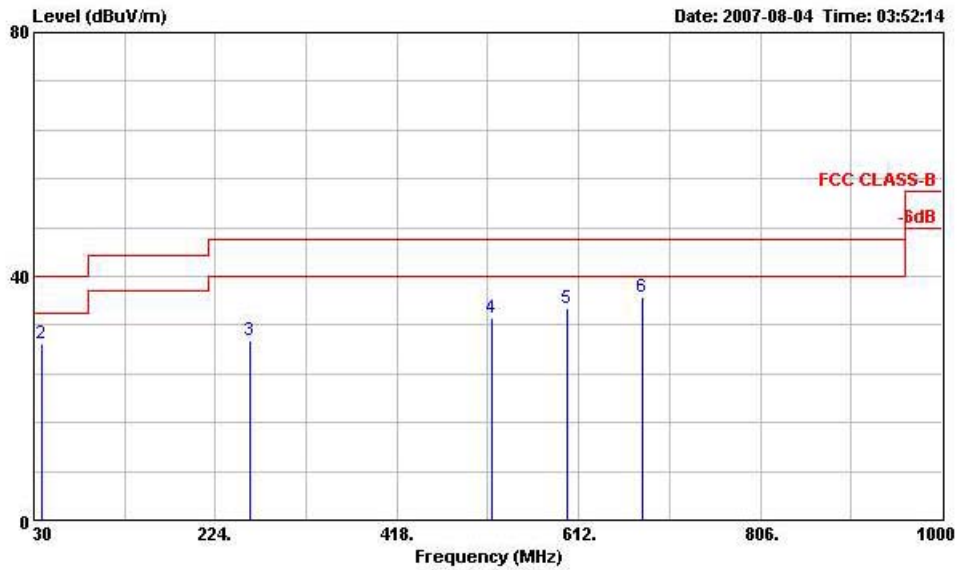
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2384.860	44.68	-29.32	74.00	46.64	28.07	3.74	33.78	100	0 Peak
2	2384.860	30.69	-23.31	54.00	32.69	28.03	3.74	33.78	112	336 Average
3 @	2402.000	94.80			96.73	28.11	3.74	33.78	100	0 Peak
4 @	2402.000	82.63			84.60	28.07	3.74	33.78	112	336 Average
5	2494.000	41.79	-32.21	74.00	43.45	28.30	3.84	33.80	100	0 Peak
6	2494.000	28.80	-25.20	54.00	30.46	28.30	3.84	33.80	112	336 Average
7	4804.000	58.88	-15.12	74.00	54.44	32.86	5.88	34.30	100	0 Peak
8 @	4804.000	50.78	-3.22	54.00	46.36	32.86	5.86	34.30	100	269 Average
9	7830.000	52.96	-21.04	74.00	43.27	36.67	6.69	33.67	100	0 Peak
10	7830.000	40.89	-13.11	54.00	31.20	36.67	6.69	33.67	100	255 Average

Remark: #3 and #4 Fundamental Signal



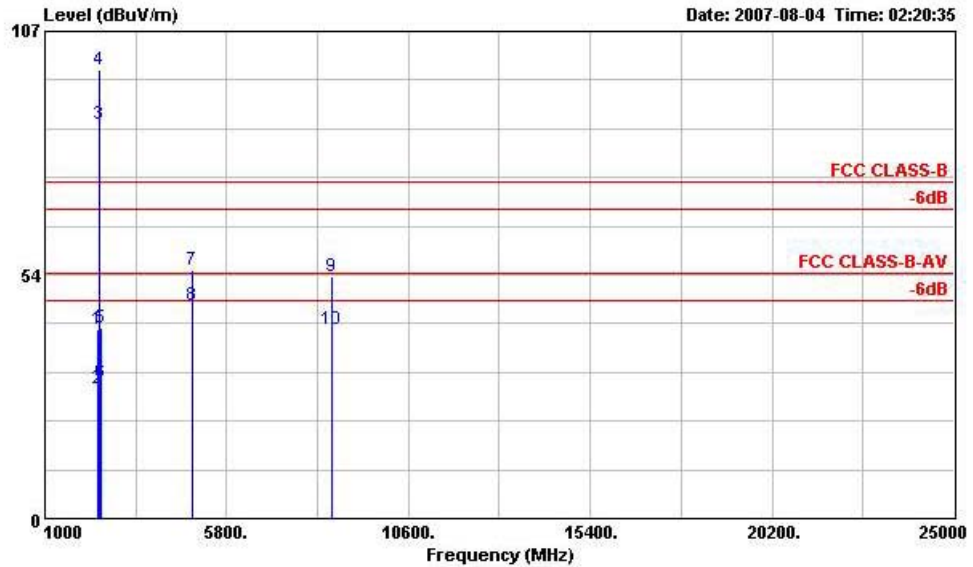


- Test Mode : Mode 14
- Polarization : Horizontal



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch39;2441MHz  
 PLANE : E2  
 Data Rate: 3-DH5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 @	30.810	31.61	-8.39	40.00	47.54	16.36	0.64	32.93	100	314	Peak
2	38.370	29.05	-10.95	40.00	48.57	12.71	0.71	32.94	---	---	Peak
3	260.580	29.41	-16.59	46.00	47.83	12.51	1.93	32.86	---	---	Peak
4	519.800	33.23	-12.77	46.00	45.58	17.49	2.67	32.51	---	---	Peak
5	598.900	34.84	-11.16	46.00	44.64	19.84	2.82	32.45	---	---	Peak
6	680.100	36.61	-9.39	46.00	45.44	20.09	3.13	32.05	---	---	Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch39;2441MHz  
 PLANE : E2  
 Data Rate: 3-DH5

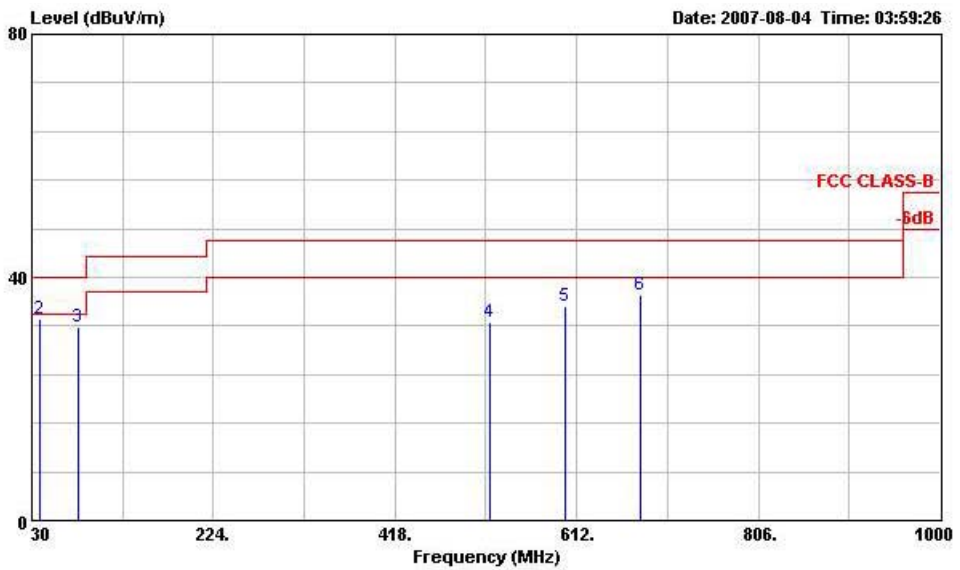
	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos	
					dBuV	dB/m	dB	dB	cm	deg	
1	2382.000	41.39	-32.61	74.00	43.39	28.03	3.74	33.78	100	0	Peak
2	2382.000	28.58	-25.42	54.00	30.58	28.03	3.74	33.78	107	17	Average
3 @	2441.000	86.45			88.27	28.19	3.79	33.79	107	17	Average
4 @	2441.000	98.45			100.27	28.19	3.79	33.79	100	0	Peak
5	2486.000	41.71	-32.29	74.00	43.41	28.26	3.84	33.80	100	0	Peak
6	2486.000	29.82	-24.18	54.00	31.52	28.26	3.84	33.80	107	17	Average
7	4882.000	54.50	-19.50	74.00	49.90	32.98	5.92	34.30	100	0	Peak
8 @	4882.000	46.91	-7.09	54.00	42.31	32.98	5.92	34.30	100	179	Average
9	8574.000	53.23	-20.77	74.00	43.03	37.60	7.06	34.46	100	0	Peak
10	8574.000	41.40	-12.60	54.00	31.20	37.60	7.06	34.46	100	246	Average

Remark: #3 and #4 Fundamental Signal



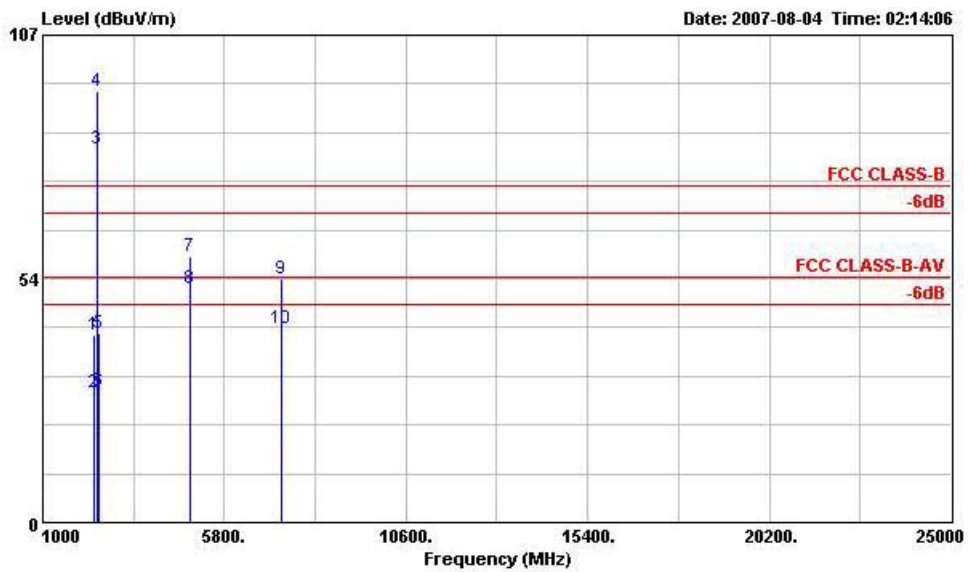
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch39;2441MHz  
 PLANE : E2  
 Data Rate: 3-DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 @	30.810	35.74	-4.26	40.00	51.67	16.36	0.64	32.93	126	356 QP
2 @	39.180	33.15	-6.85	40.00	52.67	12.71	0.71	32.94	133	265 QP
3 @	79.410	31.82	-8.18	40.00	56.67	6.93	1.03	32.81	---	--- Peak
4	519.800	32.69	-13.31	46.00	45.04	17.49	2.67	32.51	---	--- Peak
5	598.900	35.35	-10.65	46.00	45.15	19.84	2.82	32.45	---	--- Peak
6	680.100	37.05	-8.95	46.00	45.88	20.09	3.13	32.05	---	--- Peak



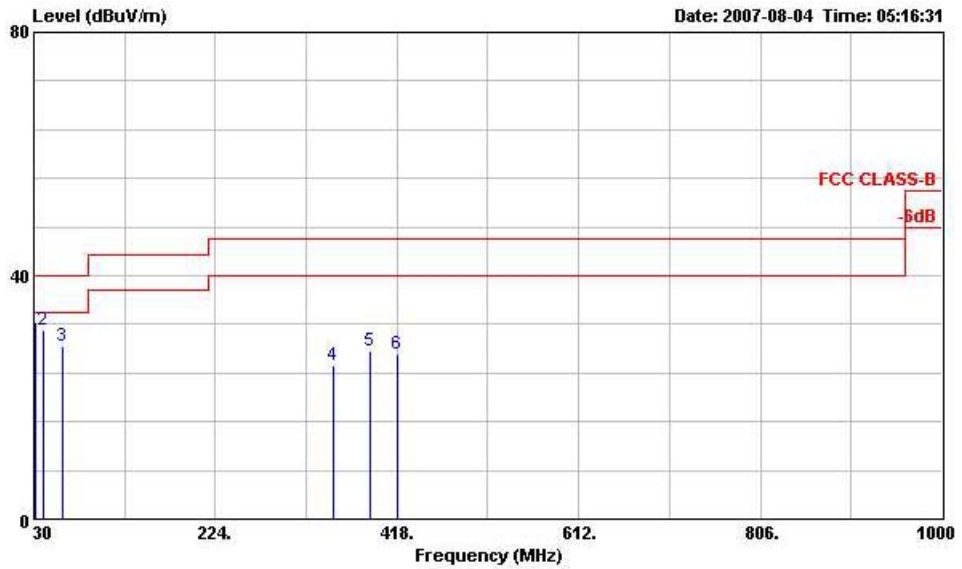
Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOHE : Bluetooth Tx\_Ch39;2441MHz  
 PLANE : E2  
 Data Rate: 3-DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	Remark
1	2342.000	41.17	-32.83	74.00	43.29	27.96	3.69	33.77	100	0 Peak
2	2342.000	28.68	-25.32	54.00	30.80	27.96	3.69	33.77	100	278 Average
3 @	2441.000	82.01			83.83	28.19	3.79	33.79	100	278 Average
4 @	2441.000	94.71			96.53	28.19	3.79	33.79	100	0 Peak
5	2494.000	41.70	-32.30	74.00	43.36	28.30	3.84	33.80	100	0 Peak
6	2494.000	28.96	-25.04	54.00	30.62	28.30	3.84	33.80	100	278 Average
7	4882.000	58.43	-15.57	74.00	53.83	32.98	5.92	34.30	100	0 Peak
8 @	4882.000	51.40	-2.60	54.00	46.80	32.98	5.92	34.30	103	332 Average
9	7323.000	53.48	-20.52	74.00	44.35	35.99	6.48	33.35	100	0 Peak
10	7323.000	42.69	-11.31	54.00	33.56	35.99	6.48	33.35	100	265 Average

Remark: #3 and #4 Fundamental Signal

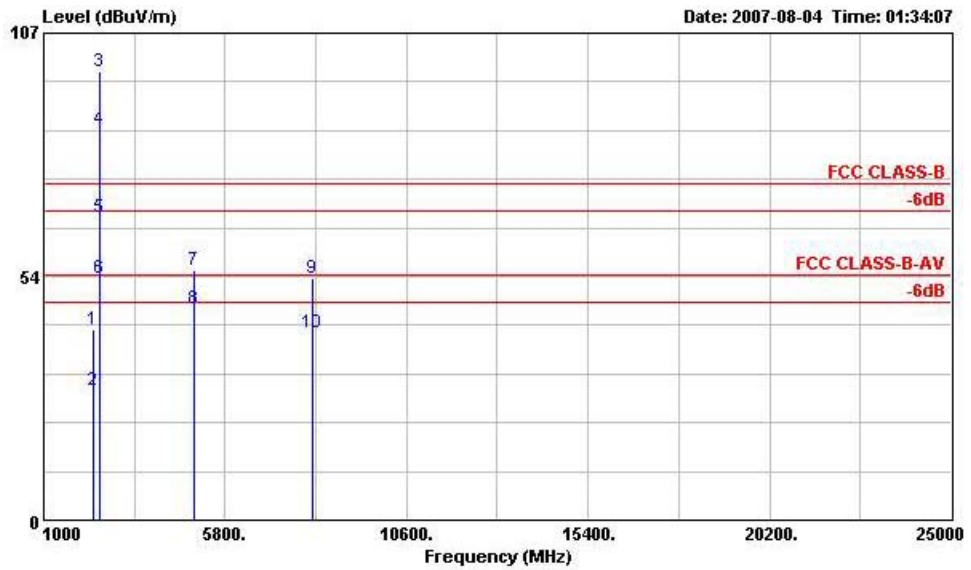


- Test Mode : Mode 15
- Polarization : Horizontal



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOMENT : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 3-DH5

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	Remark
1 @	31.890	32.32	-7.68	40.00	48.30	16.34	0.65	32.98	100	305	Peak
2	39.450	31.04	-8.96	40.00	51.41	11.82	0.71	32.90	---	---	Peak
3	59.970	28.39	-11.61	40.00	56.95	3.40	0.86	32.82	---	---	Peak
4	349.700	25.29	-20.71	46.00	41.94	14.05	2.13	32.83	---	---	Peak
5	388.900	27.72	-18.28	46.00	42.91	15.38	2.29	32.85	---	---	Peak
6	419.000	27.17	-18.83	46.00	41.62	15.97	2.39	32.81	---	---	Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 3-DH5

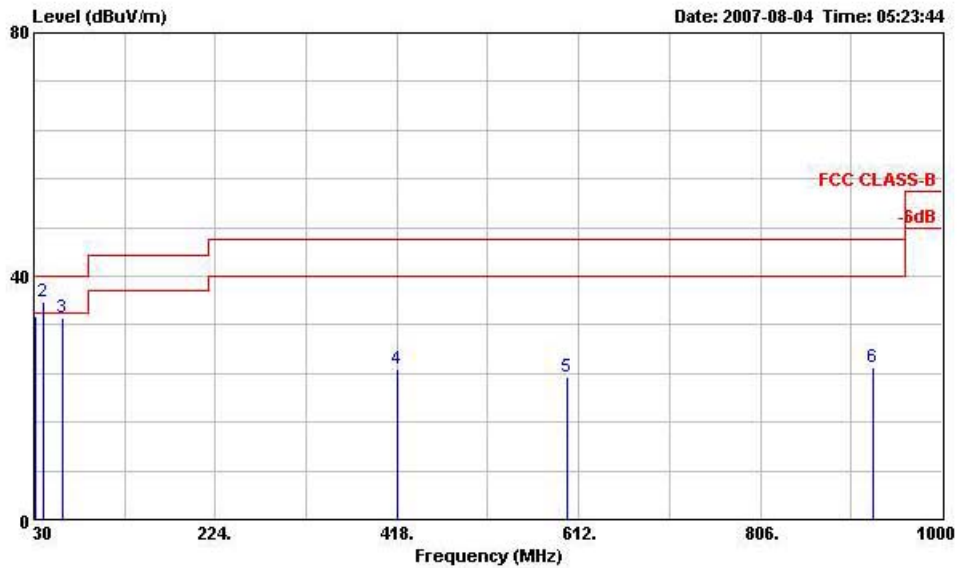
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2310.000	41.88	-32.12	74.00	44.09	27.88	3.66	33.76	100	0 Peak
2	2310.000	28.61	-25.39	54.00	30.82	27.88	3.66	33.76	101	319 Average
3 @	2480.000	98.67			100.37	28.26	3.84	33.80	100	0 Peak
4 @	2480.000	85.87			87.57	28.26	3.84	33.80	101	319 Average
5 @	2483.500	66.51	-7.49	74.00	68.21	28.26	3.84	33.80	100	0 Peak
6 @	2483.500	53.05	-0.95	54.00	54.75	28.26	3.84	33.80	101	319 Average
7	4960.000	54.95	-19.05	74.00	50.15	33.14	5.96	34.30	100	0 Peak
8 @	4960.000	46.54	-7.46	54.00	41.74	33.14	5.96	34.30	100	6 Average
9	8121.000	53.30	-20.70	74.00	43.28	36.97	6.82	33.77	100	0 Peak
10	8121.000	41.22	-12.78	54.00	31.20	36.97	6.82	33.77	100	289 Average

Remark: #3 and #4 Fundamental Signal



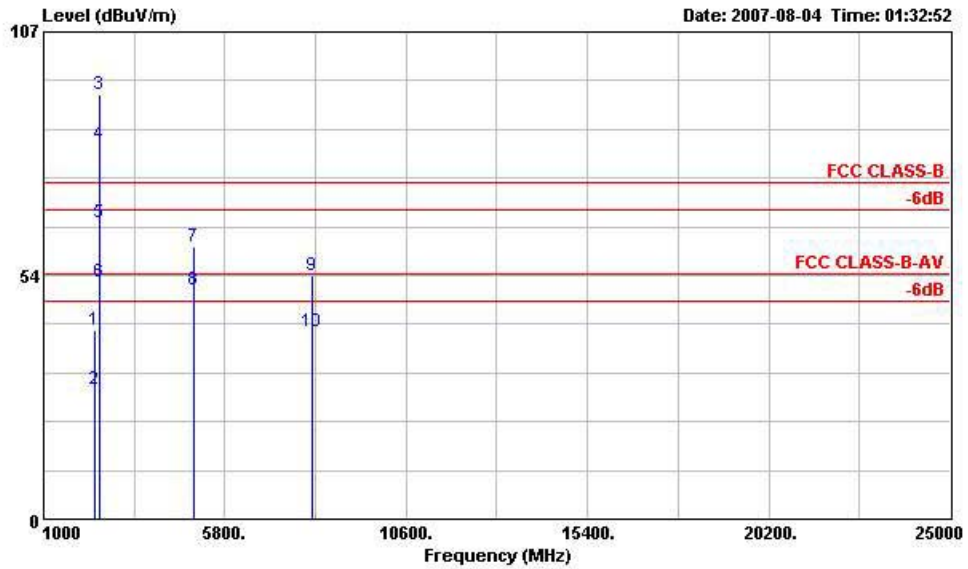
- Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 : BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOHE : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 3-DH5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Loss	Factor	Pos	Pos	Remark
					dBuV	Factor		cm	deg	
1 @	31.890	33.32	-6.68	40.00	49.30	16.34	0.65	32.98	133	360 QP
2 @	39.450	35.87	-4.13	40.00	56.24	11.82	0.71	32.90	124	288 QP
3 @	60.780	33.07	-6.93	40.00	61.40	3.62	0.86	32.81	100	87 QP
4	419.000	24.78	-21.22	46.00	39.23	15.97	2.39	32.81	---	--- Peak
5	598.900	23.29	-22.71	46.00	33.09	19.84	2.82	32.45	---	--- Peak
6	925.800	24.97	-21.03	46.00	28.63	24.18	3.59	31.42	---	--- Peak



Site : 03CH04-HY  
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL  
 EUT : PDA Smart Phone (WiFi\_802.11b/g/  
 :BT\_v2.0 EDR\_VOIP)  
 POWER : 110Vac/60Hz  
 MODEL : TR 771809  
 MOME : Bluetooth Tx\_Ch78;2480MHz  
 PLANE : E2  
 Data Rate: 3-DHS

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	2340.000	41.61	-32.39	74.00	43.73	27.96	3.69	33.77	100	0 Peak
2	2340.000	28.67	-25.33	54.00	30.79	27.96	3.69	33.77	114	227 Average
3 @	2480.000	93.39			95.09	28.26	3.84	33.80	100	0 Peak
4 @	2480.000	82.52			84.22	28.26	3.84	33.80	114	227 Average
5	2483.500	65.04	-8.96	74.00	66.74	28.26	3.84	33.80	100	0 Peak
6 @	2483.500	51.98	-2.02	54.00	53.68	28.26	3.84	33.80	114	227 Average
7	4960.000	59.97	-14.03	74.00	55.17	33.14	5.96	34.30	100	0 Peak
8 @	4960.000	50.38	-3.62	54.00	45.58	33.14	5.96	34.30	100	339 Average
9	8121.000	53.52	-20.48	74.00	43.50	36.97	6.82	33.77	100	0 Peak
10	8121.000	41.22	-12.78	54.00	31.20	36.97	6.82	33.77	100	288 Average

Remark: #3 and #4 Fundamental Signal





## **5.12 Antenna Requirements**

### **5.12.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

### **5.12.2 Antenna Connected Construction**

The antennas used in this product are PIFA antenna for WLAN and Chip antenna for BT without connector and it is considered to meet antenna requirement of FCC.

### **5.12.3 Antenna Gain**

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 6. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9kHz – 2.75GHz	Aug. 30, 2006	Aug. 29, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Mar. 30, 2007	Mar. 29, 2008	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Mar. 30, 2007	Mar. 29, 2008	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 04, 2006	Dec. 03, 2007	Conduction (CO01-HY)
Isolation Transformer	Erika Fiedler OHG	D-65396 Walluf	58	45MHz-2.15GHz	N/A	N/A	Conduction (CO01-HY)
3m Semi Anechoic	TDK	SAC-3M	03CH04-HY	30 MHz - 1 GHz 3m	Oct. 30, 2006	Oct. 29, 2007	Radiation (03CH04-HY)
Amplifier	Schaffner	CPA9231A	3564	9 kHz - 2 GHz	Aug.31, 2006	Aug.30, 2007	Radiation (03CH04-HY)
Spectrum Analyzer	R&S	FSP7	100641	9 kHz – 7GHz	Sep. 08, 2006	Sep. 07, 2007	Radiation (03CH04-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2724	30 MHz - 1 GHz	Aug. 14, 2006	Aug. 13, 2007	Radiation (03CH04-HY)
Turn Table	HD	Deis HD 2000	420/610	0 - 360 degree	N/A	N/A	Radiation (03CH04-HY)
Antenna Mast	Chaintek	3000		1 m - 4 m	N/A	N/A	Radiation (03CH04-HY)
RF Cable-R03m	Suhner Switzerland +	RG223/U +RG8/U	CB024	30 MHz - 1 GHz	Sep. 21, 2006	Sep. 20, 2007	Radiation (03CH04-HY)



## 7. Uncertainty Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
<b>combined standard uncertainty Uc(y)</b>	<b>1.13</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.26</b>		

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.11	Normal(k=2)	0.06
Antenna factor calibration	0.91	Normal(k=2)	0.46
Cable loss calibration	0.12	Normal(k=2)	0.06
Pre Amplifier Gain calibration	0.15	Normal(k=2)	0.08
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.52	Rectangular	0.88
Mismatch	+0.45/-0.48	U-shaped	0.33
<b>combined standard uncertainty Uc(y)</b>	<b>1.30</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.60</b>		

The measured result is :  $y$  dBuV  $\pm$  U dB

for a level of confidence of approximately 95% , ( k= 2 )



**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

Contribution	Uncertainty of $x_i$		$u(x_i)$	$C_i$	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$	+0.34/-0.35	U-shaped	0.244	1	0.244
<b>Combined standard uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>	<b>4.72</b>				