



TEST REPORT

FCC ID: 2AB3E-IPA19C IC: 10541A-IPA19C

Applicant : ION AUDIO,LLC
Address : 200 Scenic View Drive, Cumberland, RI 02864, U.S.A

Equipment Under Test (EUT):

Name : Party Power
Model : iPA19C
Trademark : N/A

Standards : FCC PART 15, SUBPART C : 2014 (Section 15.247)
RSS-247 ISSUE 1 MAY 2015; RSS-GEN ISSUE 4 NOV 2014
ANSI C63.4:2014 ; ANSI C63.10:2013

Report No : T1850893 06
Date of Test : July 23- August 05, 2015
Date of Issue : August 06, 2015

Test Result : PASS

In the configuration tested, the EUT complied with the standards specified above
Authorized Signature

(Mark Zhu)
Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

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TEST REPORT VERIFICATION

Applicant : ION AUDIO,LLC
Manufacturer : ION AUDIO,LLC
EUT Description : Party Power

(A) Model No. : iPA19C
(B) Trademark : N/A
(C) Ratings Supply : AC 120V/60Hz
(D) Test Voltage : AC 120V/60Hz

Measurement Standard Used:

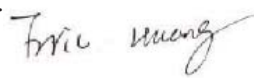
FCC Rules and Regulations Part 15 Subpart C 2014, ANSI C63.4-2014

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Eric Huang
Test Engineer

.....

.....

Approved by (name + signature).....: Simple Guan
Project Manager

.....

.....

Date of issue..... : August 06, 2015

1. General Information

1.1. Description of Device (EUT)

EUT	:	Party Power
Model No.	:	iPA19C
Trade mark	:	N/A
Power supply	:	AC 120V/60Hz or DC 6V from battery
Radio Technology	:	BT 4.1
Operation frequency	:	2402-2480MHz
Modulation	:	GFSK, $\pi/4$ DQPSK, 8-DPSK
Antenna Type	:	Integrated Antenna, max gain 0dBi.
Adapter	:	N/A
Applicant	:	ION AUDIO,LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864, U.S.A
manufacture	:	ION AUDIO, LLC
Address	:	200 Scenic View Drive, Cumberland, RI 02864, U.S.A.

1.2. Accessories of device (EUT)

Description : N/A
Manufacturer : N/A
Model No. : N/A

1.3. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd
Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road,
Bao'an, Shenzhen, China

August 11, 2014 File on Federal Communication Commission
Registration Number: 203110

July 18, 2014 Certificated by IC
Registration Number: 12135A

2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.4 :2014&RSS-247 5.4(2) & ANSI C63.10 :2013	PASS
Bandwidth	FCC Part 15: 15.215 ANSI C63.4 :2014&RSS-247 5.1(2) & ANSI C63.10 :2013	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.4 :2014& RSS-247 5.1(2) & ANSI C63.10 :2013	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014&RSS-247 5.1(4) & ANSI C63.10 :2013	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014&RSS-247 5.1(4) & ANSI C63.10 :2013	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4 :2014&RSS-247 Section 5.5& ANSI C63.10 :2013	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.4 :2014&RSS-247 Section 5.5& ANSI C63.10 :2013	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4 :2014&IC RSS Gen, Section 7.2.4& ANSI C63.10 :2013	PASS
Antenna requirement	FCC Part 15: 15.203 &IC RSS Gen, Section 7.1.4	PASS
Note: Test with the test software Airoha.AB1500_FamilyLabTestTool_20150109_1.4.11.0.exe		

2.2. Assistant equipment used for test

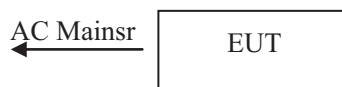
Description	:	Notebook
Manufacturer	:	ACER
Model No.	:	ZQT
Remark: FCC DOC approved		

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into BT test mode by Airoha.AB1500_FamilyLabTestTool_20150109_1.4.11.0.exe software before test.



2, For Power Line Conducted Emissions Test: EUT was connected to notebook by 1.5m USB line



2.4. Test mode

The test software “Airoha.AB1500_FamilyLab TestTool_20150109_1.4.11.0.exe” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
$\pi/4$ DQPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
8- DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.5. Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Cal. Due day	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2016.01.19	1 Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2016.01.19	1 Year
Receiver	R&S	ESCI	101165	2016.01.19	1 Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2017.01.21	2 Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2017.01.21	2 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2017.01.21	2 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.01.19	1 Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2016.01.19	1 Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2016.01.19	1 Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2016.01.19	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.01.19	1 Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2016.01.19	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2016.01.19	1 Year
Power sensor	Anritsu	ML2491A	32516	2016.01.19	1 Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2016.01.19	1 Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2016.01.19	1 Year

3. Maximum Peak Output power

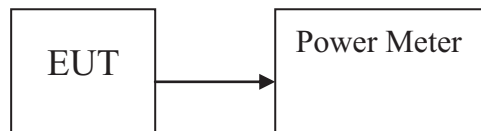
3.1. Limit

Please refer RSS-247 & section15.247.

3.2. Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

EUT: Party Power		M/N: iPA19C			
Test date: 2015-08-04		Test site: RF site		Tested by: Peter	
Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Margin (dB)
GFSK	2402	0.52	1.127	21	20.480
	2441	0.38	1.091	21	20.620
	2480	0.47	1.114	21	20.530
$\pi/4$ DQPSK,	2402	-0.31	0.931	21	21.310
	2441	-0.18	0.959	21	21.180
	2480	-0.38	0.916	21	21.380
8- DPSK	2402	-2.24	0.597	21	23.240
	2441	-2.14	0.611	21	23.140
	2480	-2.08	0.619	21	23.080
Conclusion: PASS					

4. Bandwidth

4.1. Limit

Please refer RSS-247 & section15.247.

4.2. Test Procedure

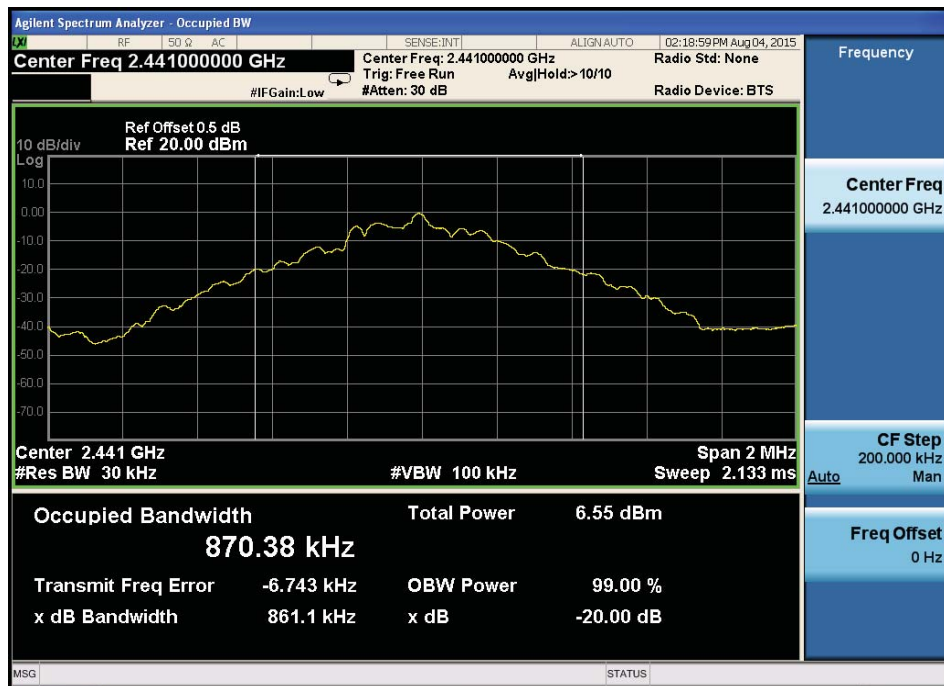
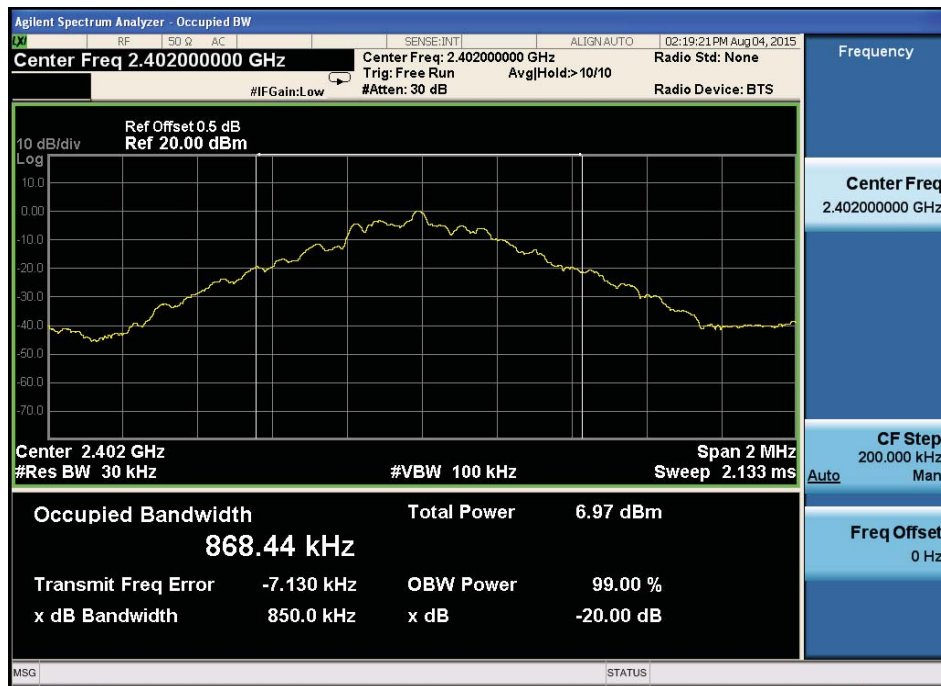
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

EUT: Party Power		M/N: iPA19C		
Test date: 2015-08-04		Test site: RF site		Tested by: Peter
Mode	Freq (MHz)	20dB Bandwidth (KHz)	Limit	Conclusion
GFSK	2402	850.0	-	PASS
	2441	861.1	-	PASS
	2480	866.1	-	PASS
π /4 DQPSK	2402	1242	-	PASS
	2441	1238	-	PASS
	2480	1244	-	PASS
8- DPSK	2402	1218	-	PASS
	2441	1217	-	PASS
	2480	1216	-	PASS

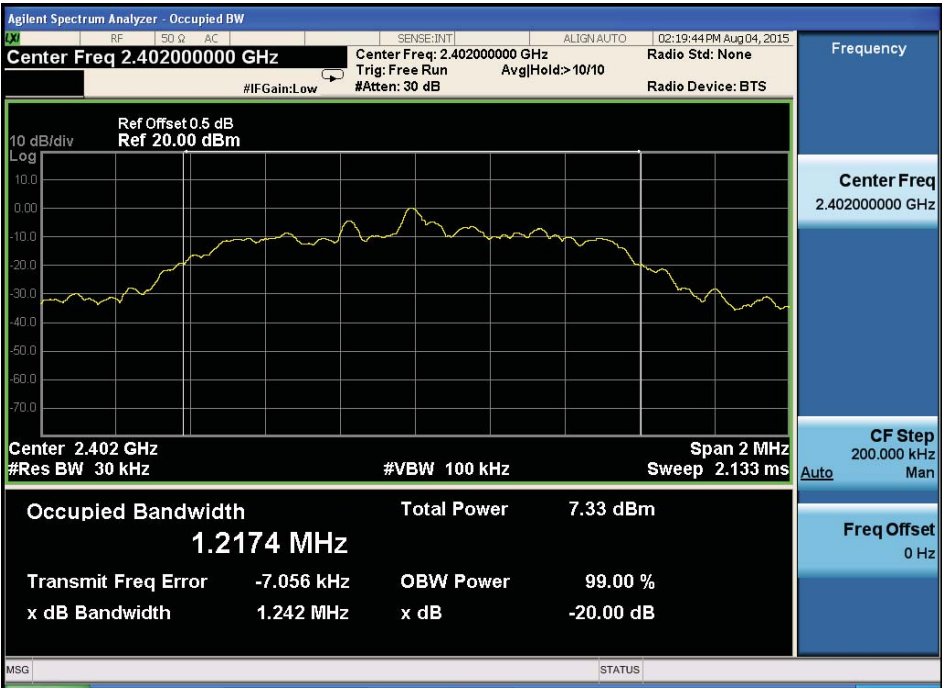
Original Test data

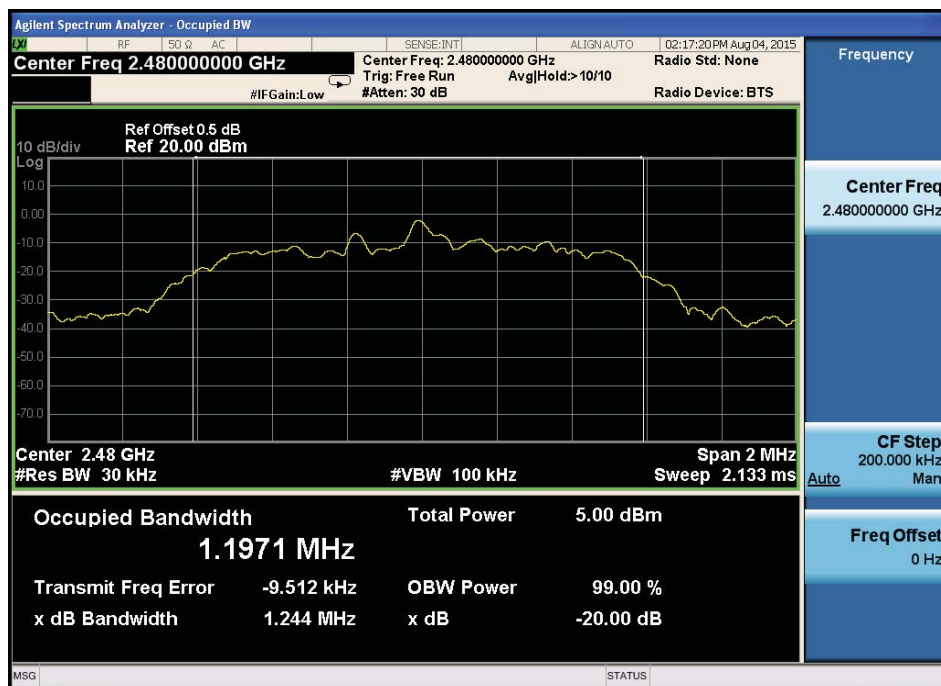
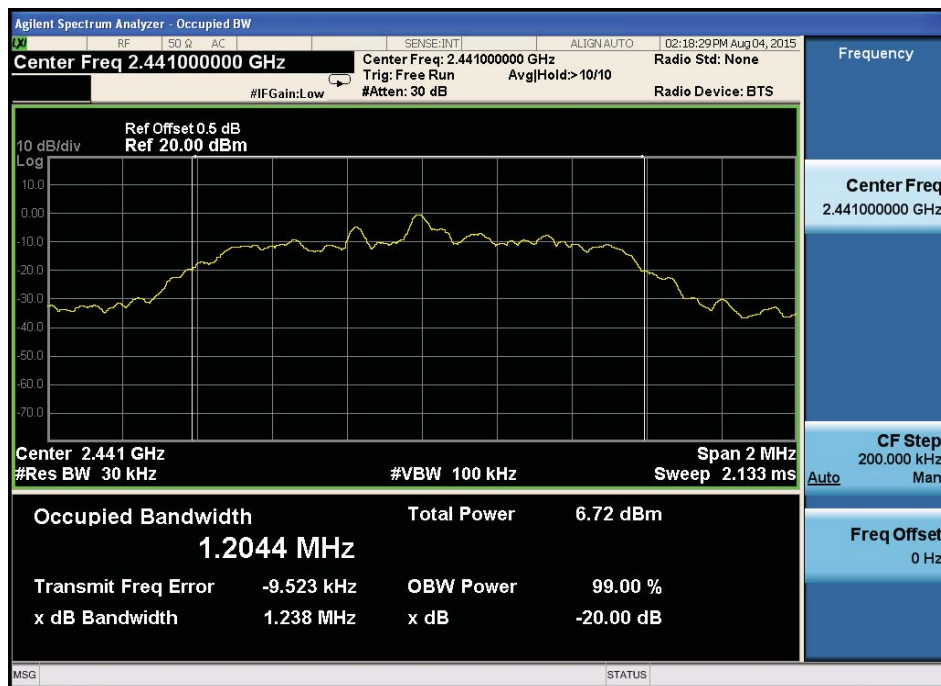
GFSK:



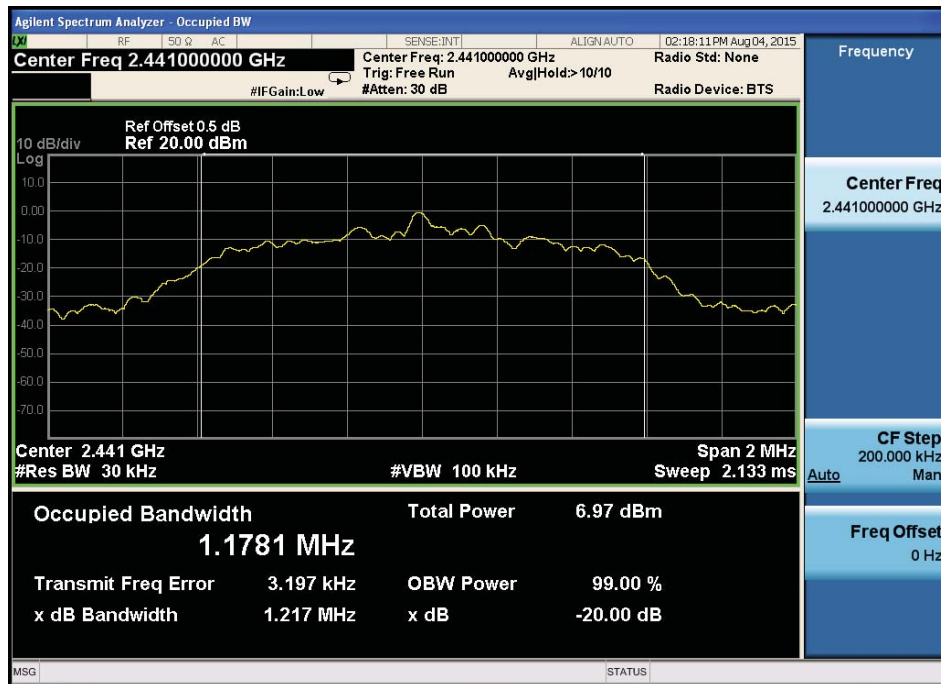
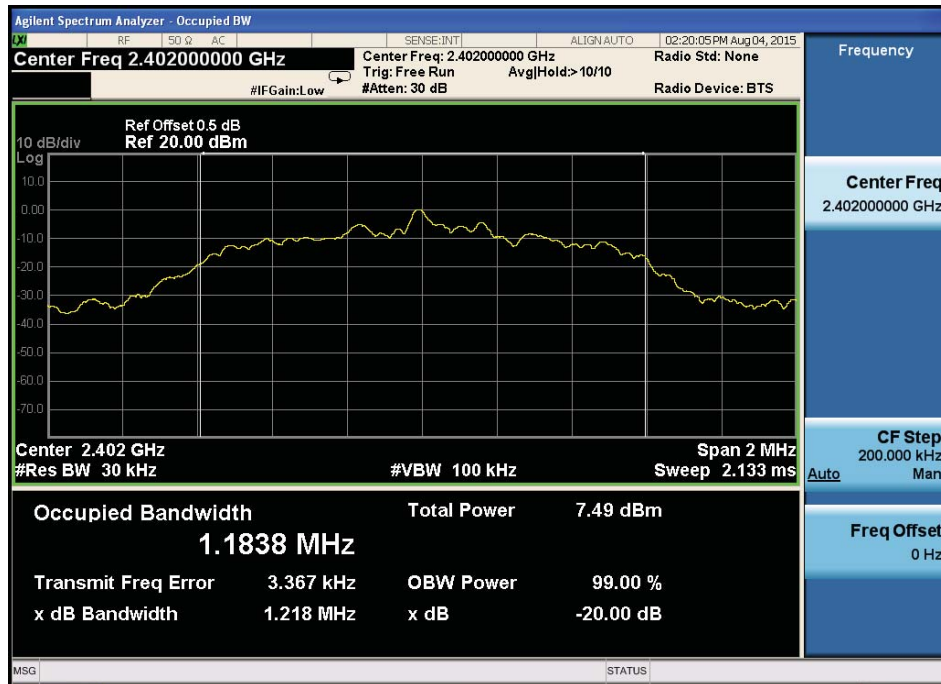


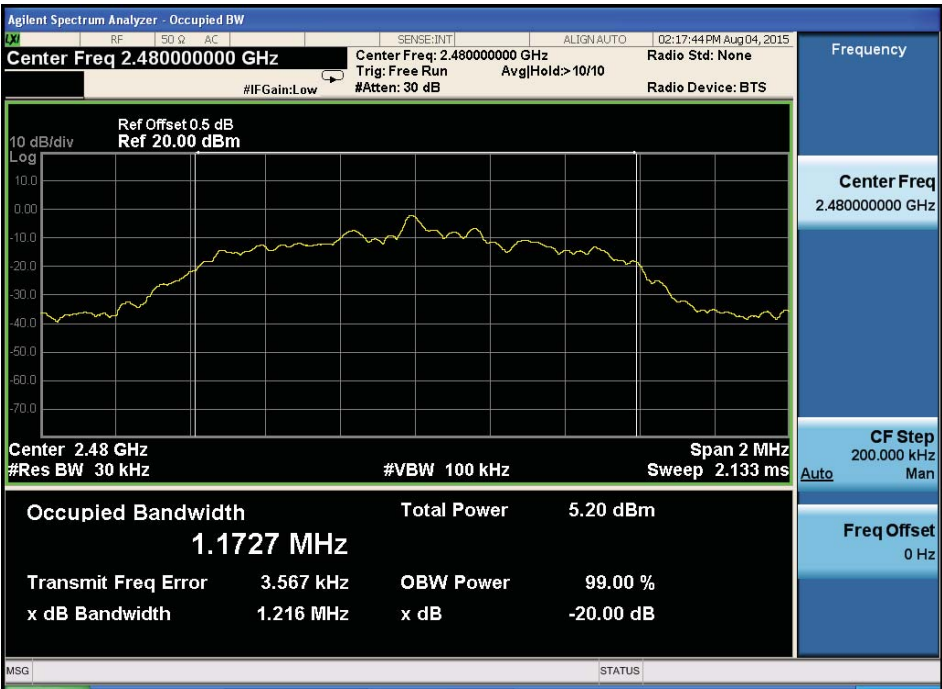
$\pi/4$ DQPSK





8- DPSK





5. Carrier Frequency Separation

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

5.3. Test Result

EUT: Party Power M/N: iPA19C				
Test date: 2015-08-04		Test site: RF site		Tested by: Peter
Mode/Channel	Channel separation (KHz)	20dB Bandwidth (KHz)	Limit (KHz) 2/3 20dB bandwidth	Conclusion
GFSK	1002	866	577	PASS
$\pi/4$ DQPSK	1011	1244	829	PASS
8- DPSK	1008	1218	812	PASS

Original test data for channel separation
GFSK



$\pi/4$ DQPSK



8- DPSK



6. Number Of Hopping Channel

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

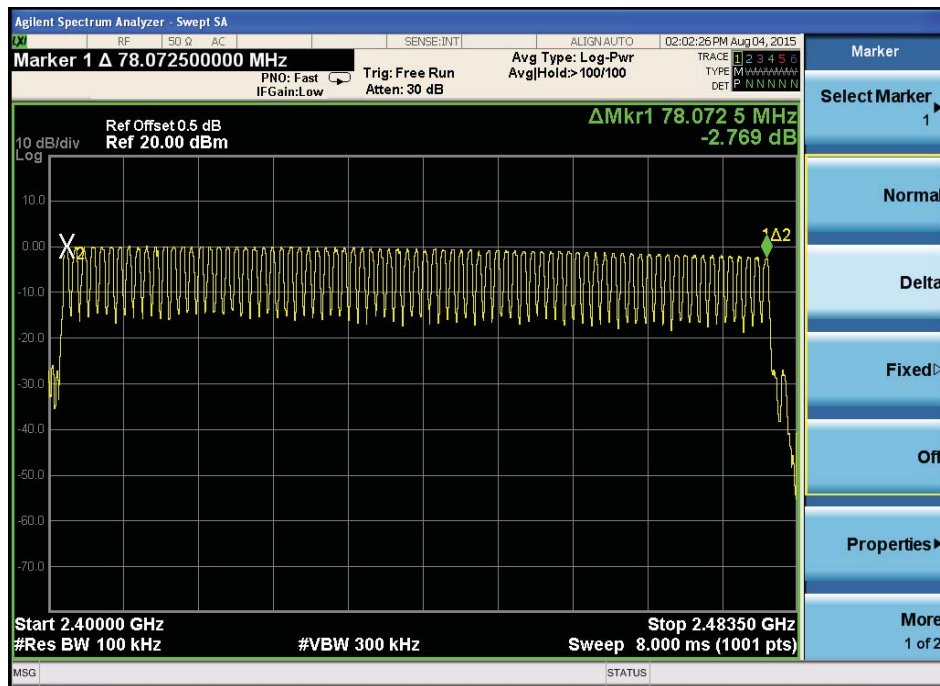
6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW.

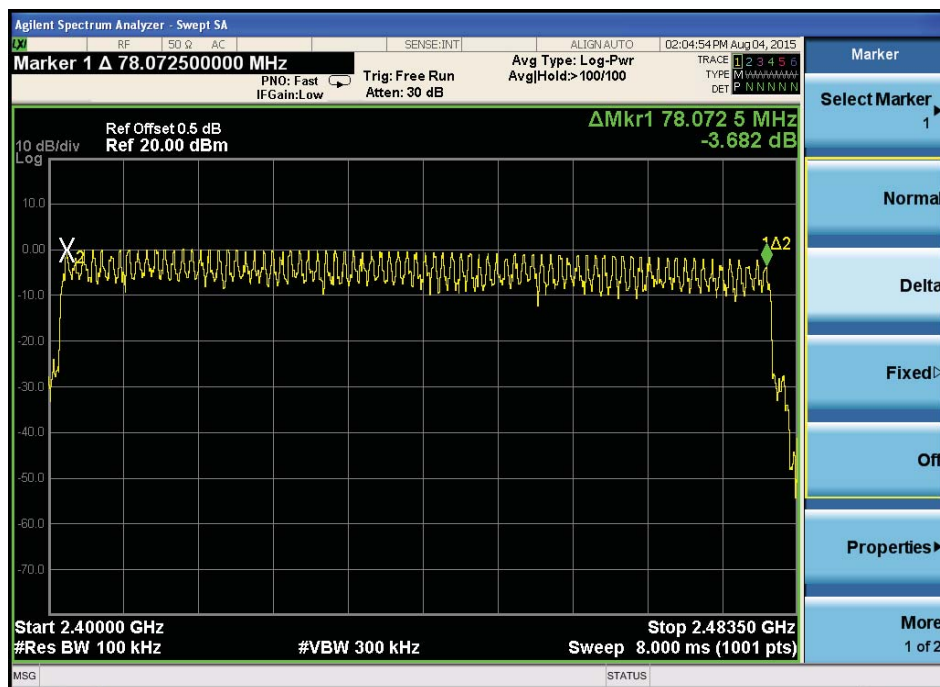
6.3. Test Result

EUT: Party Power M/N: iPA19C			
Test date: 2015-08-04		Test site: RF site	Tested by: Peter
Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
$\pi/4$ DQPSK	79	>15	PASS
8- DPSK	79	>15	PASS

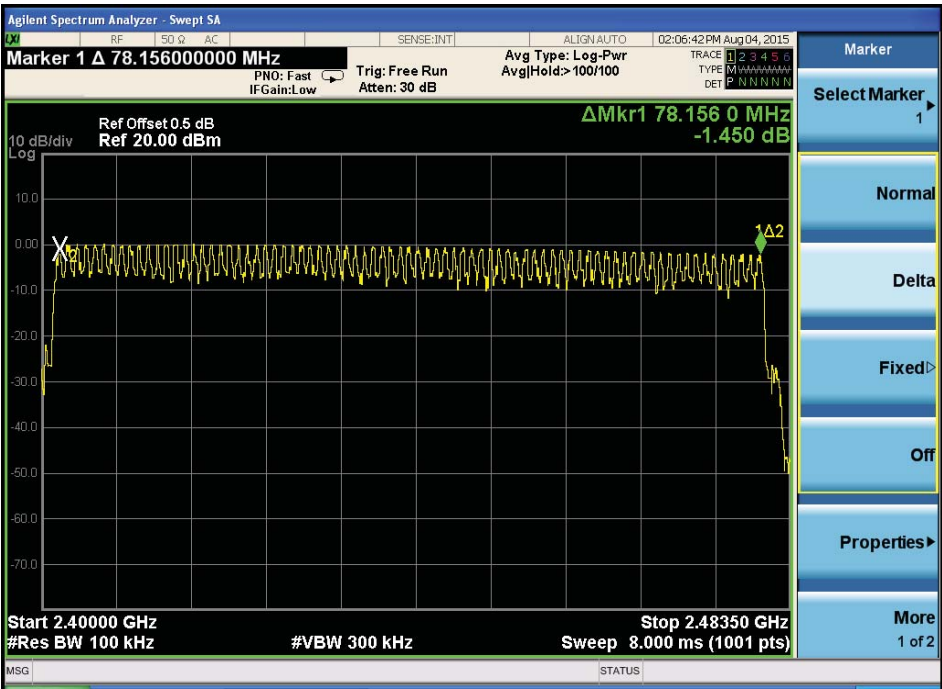
Original test data for hopping channel number
GFSK



$\pi/4$ DQPSK



8- DPSK



7. Dwell Time

7.1. Test limit

Please refer RSS-247 & section15.247.

7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Results

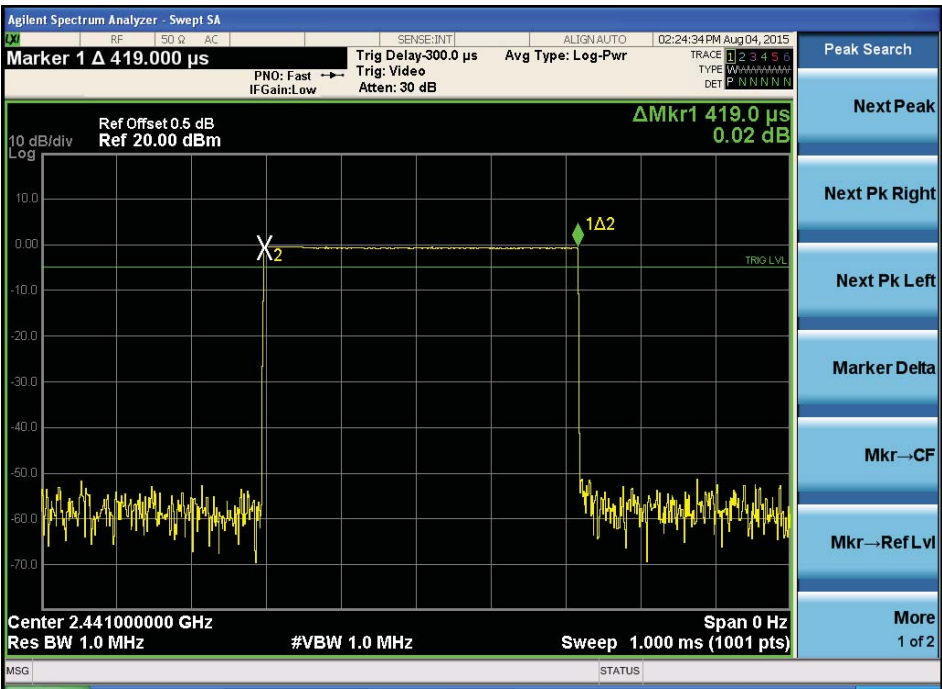
PASS.

Detailed information please see the following page.

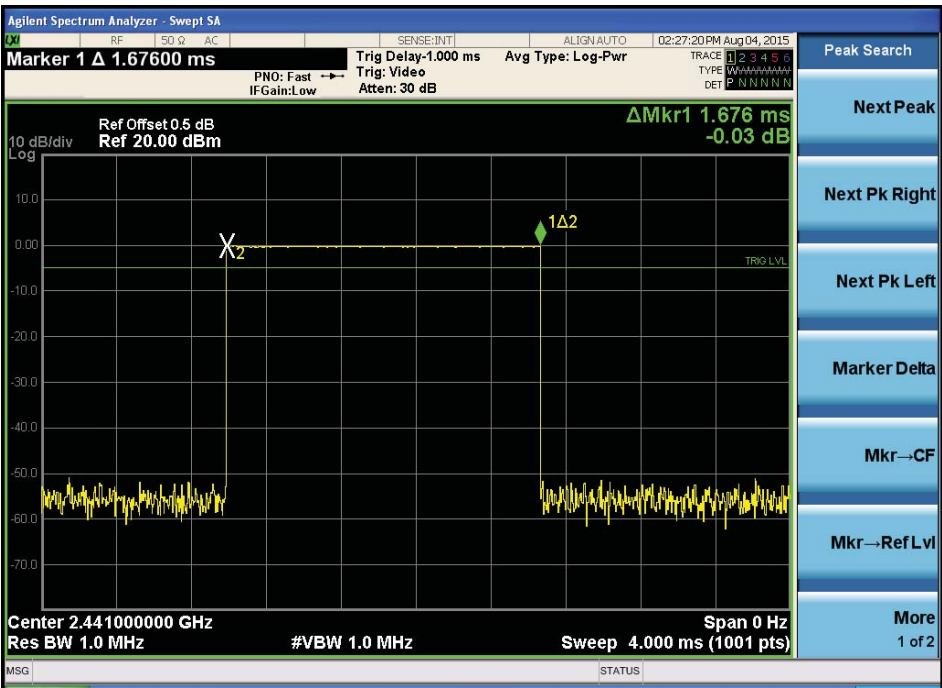
EUT: Party Power M/N: iPA19C						
Test date: 2015-08-04		Test site: RF site		Tested by: Peter		
Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Conclusion
GFSK	DH1	2441	0.419	0.268	<0.4	PASS
	DH3	2441	1.676	0.358	<0.4	PASS
	DH5	2441	2.920	0.374	<0.4	PASS
π /4 DQPSK	DH1	2441	0.430	0.275	<0.4	PASS
	DH3	2441	1.680	0.358	<0.4	PASS
	DH5	2441	2.928	0.375	<0.4	PASS
8- DPSK	DH1	2441	0.430	0.275	<0.4	PASS
	DH3	2441	1.680	0.358	<0.4	PASS
	DH5	2441	2.932	0.375	<0.4	PASS
Note: 1 A period time = 0.4 (s) * 79 = 31.6(s) 2 DH1 time slot = Pulse Duration * (1600/(1*79)) * A period time DH3 time slot = Pulse Duration * (1600/(3*79)) * A period time DH5 time slot = Pulse Duration * (1600/(5*79)) * A period time						

GFSK

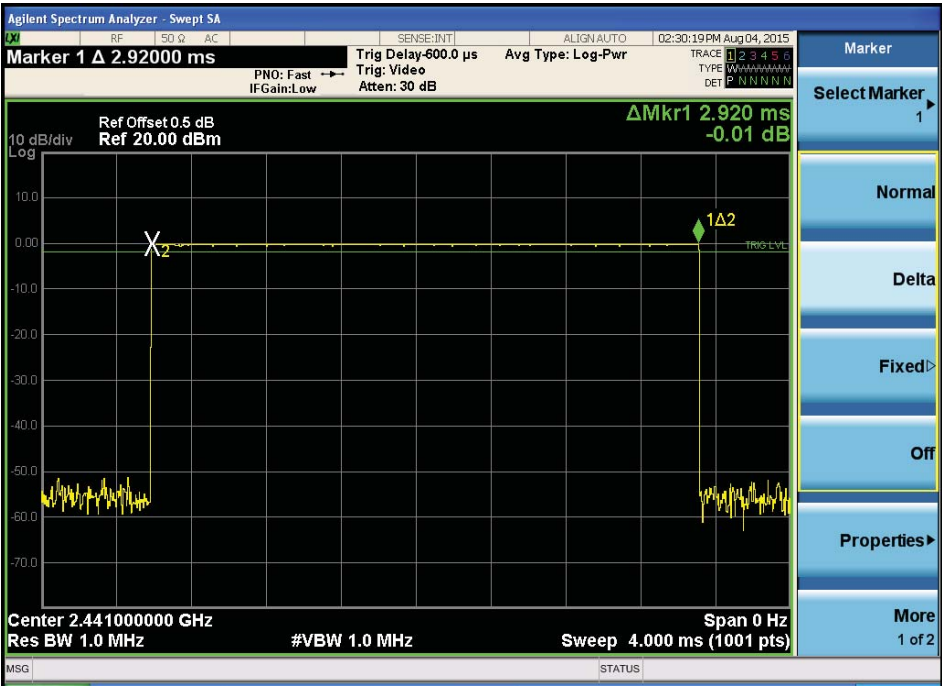
DH1:



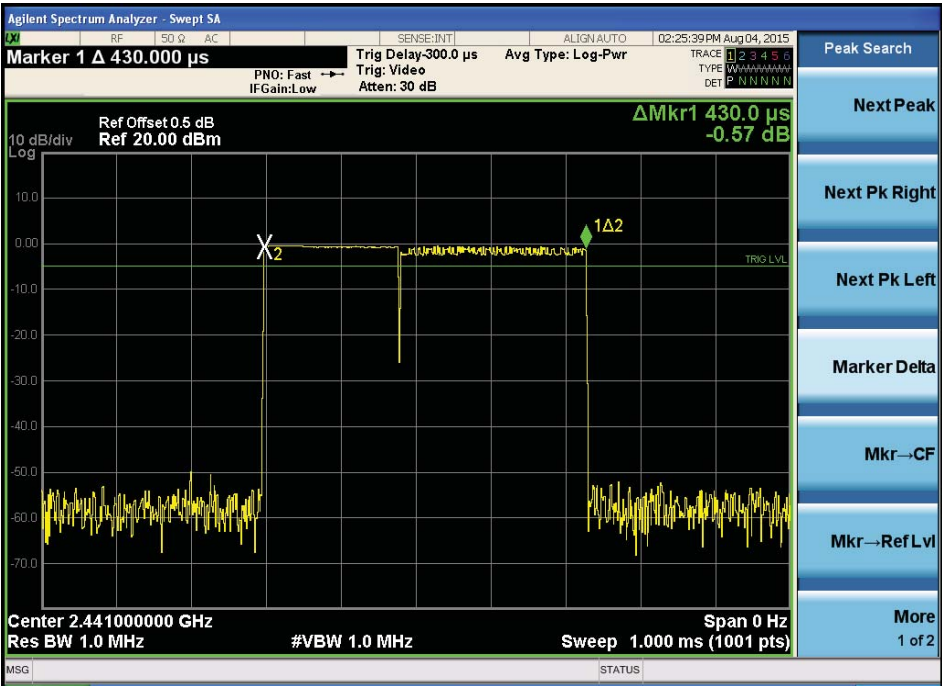
DH3:



DH5



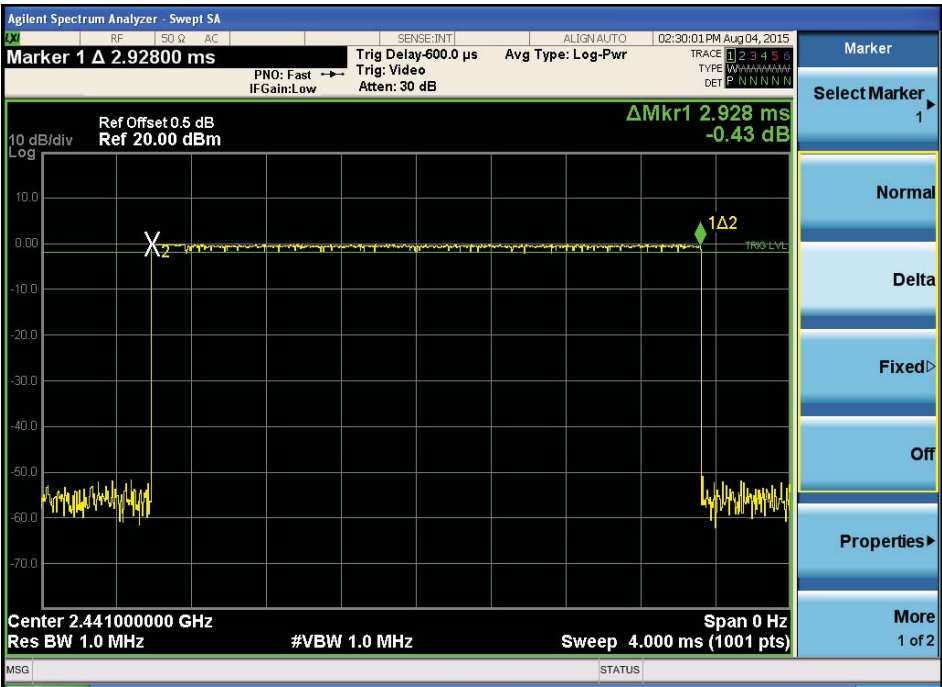
$\pi/4$ DQPSK
DH1



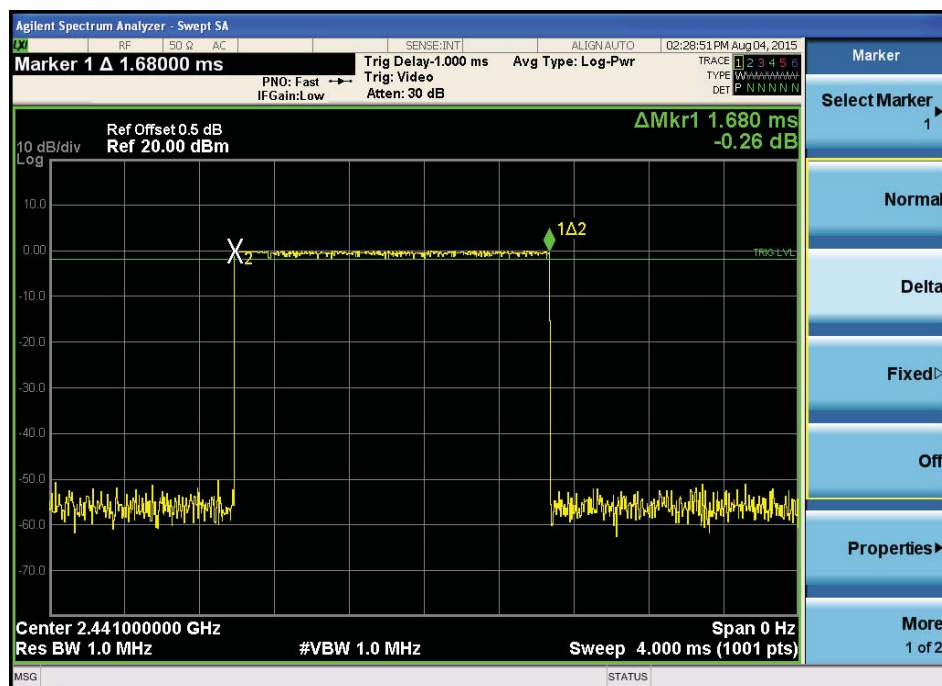
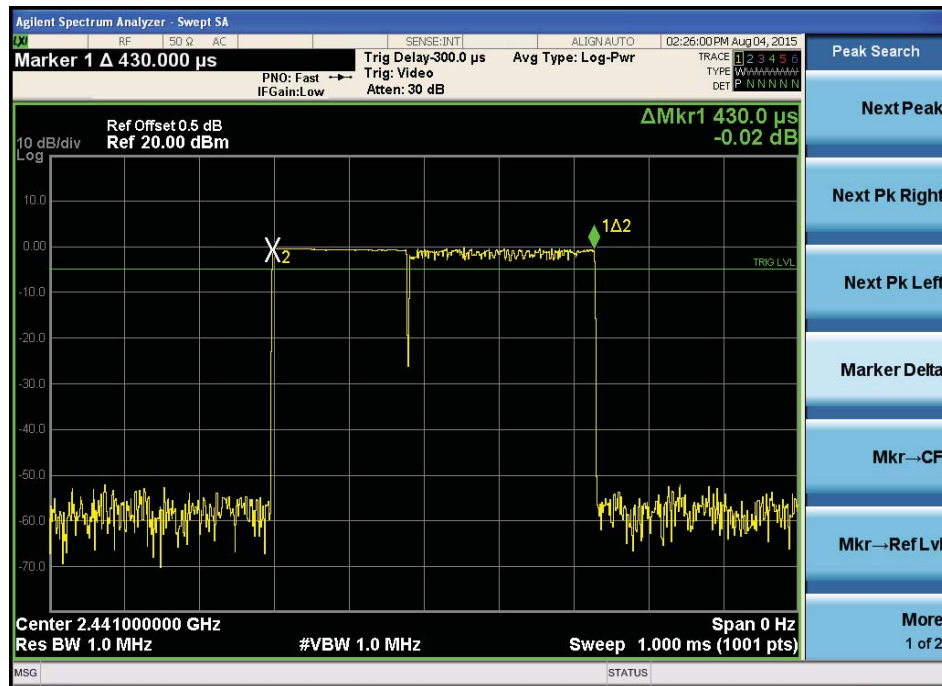
DH3

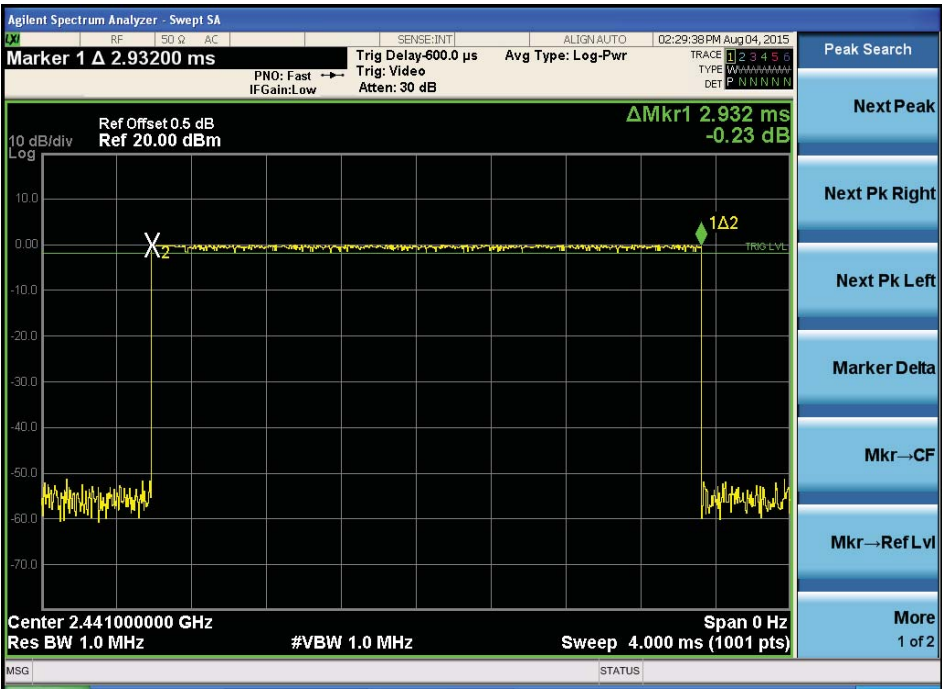


DH5



8- DPSK:





8. Radiated emissions

8.1. Limit

All the emissions appearing within RSS-GEN restricted frequency bands shall not exceed the limits shown in RSS-GEN, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with RSS-GEN limits.

RSS-GEN Restricted frequency band

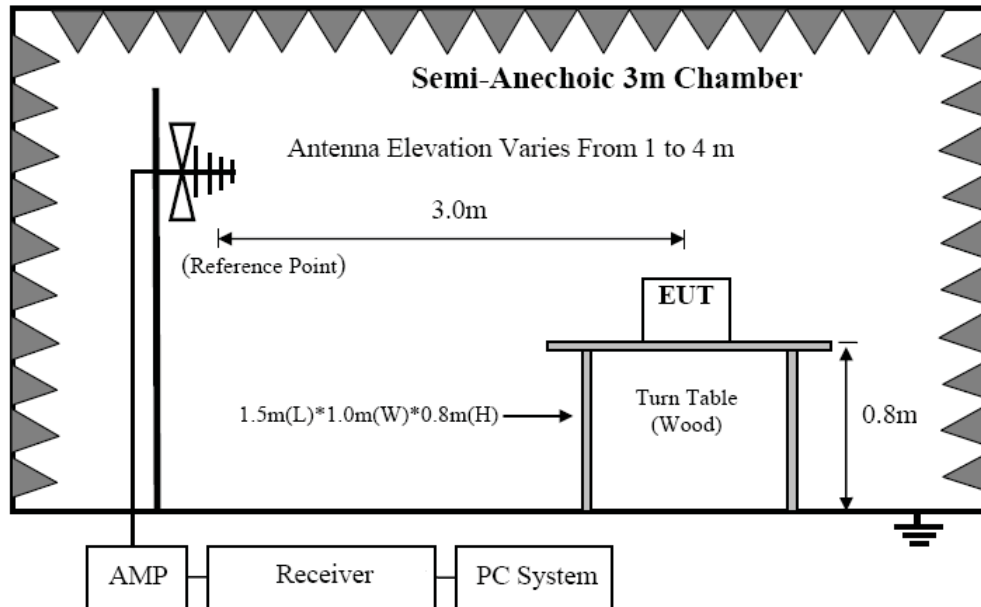
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

RSS-GEN Limit

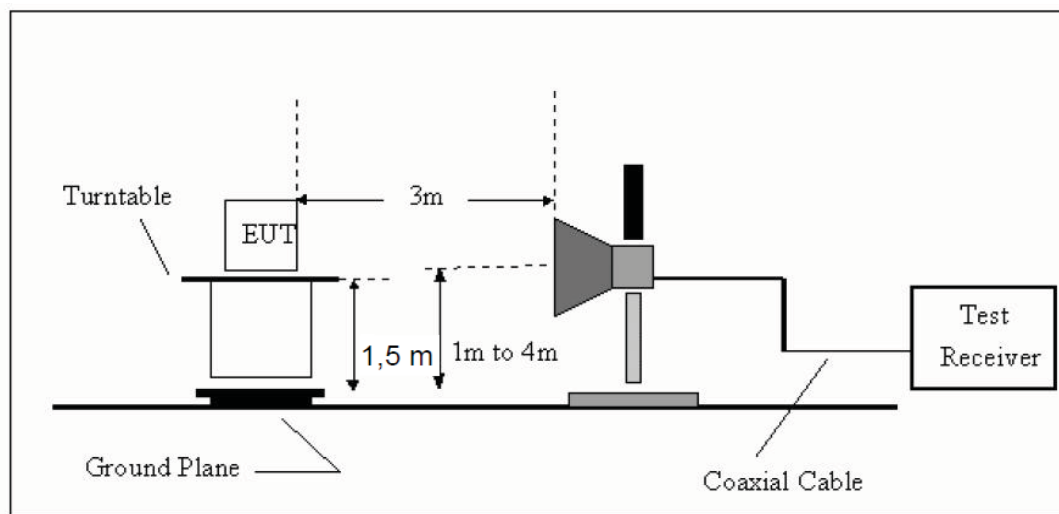
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

8.2. Block Diagram of Test setup

8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1GHz testing, and 150cm for above 1GHz testing.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2014 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure. Peak detector is for both.

8.4. Test Result

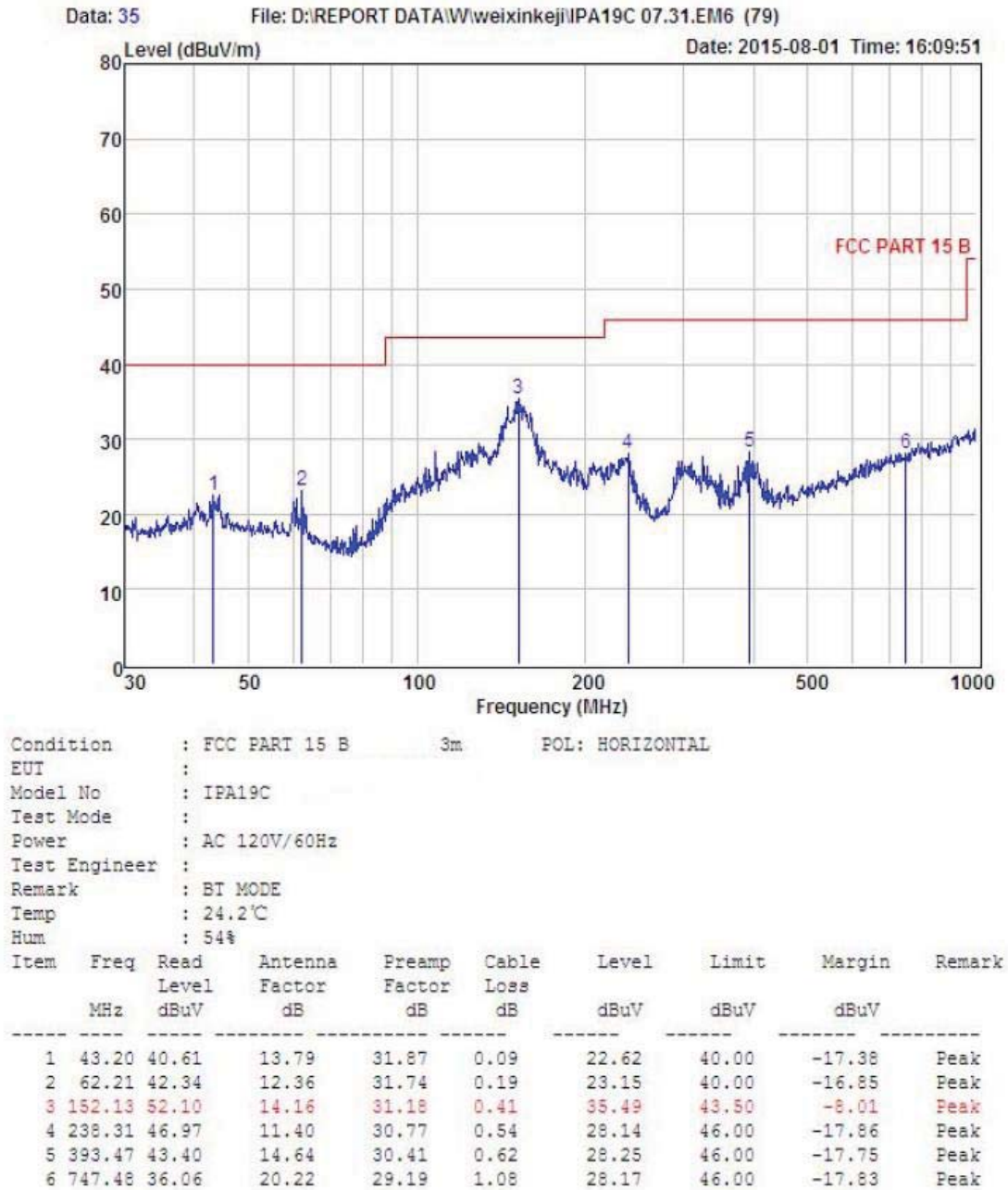
We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

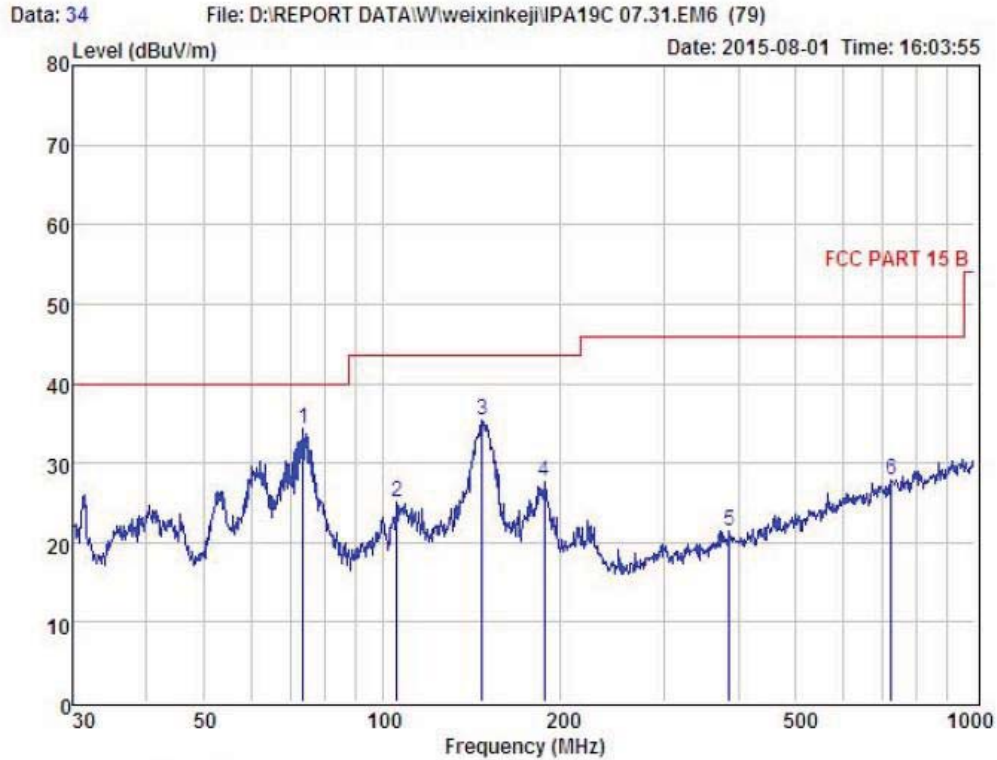
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz: Conclusion: PASS

With Guanjing convertor:



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

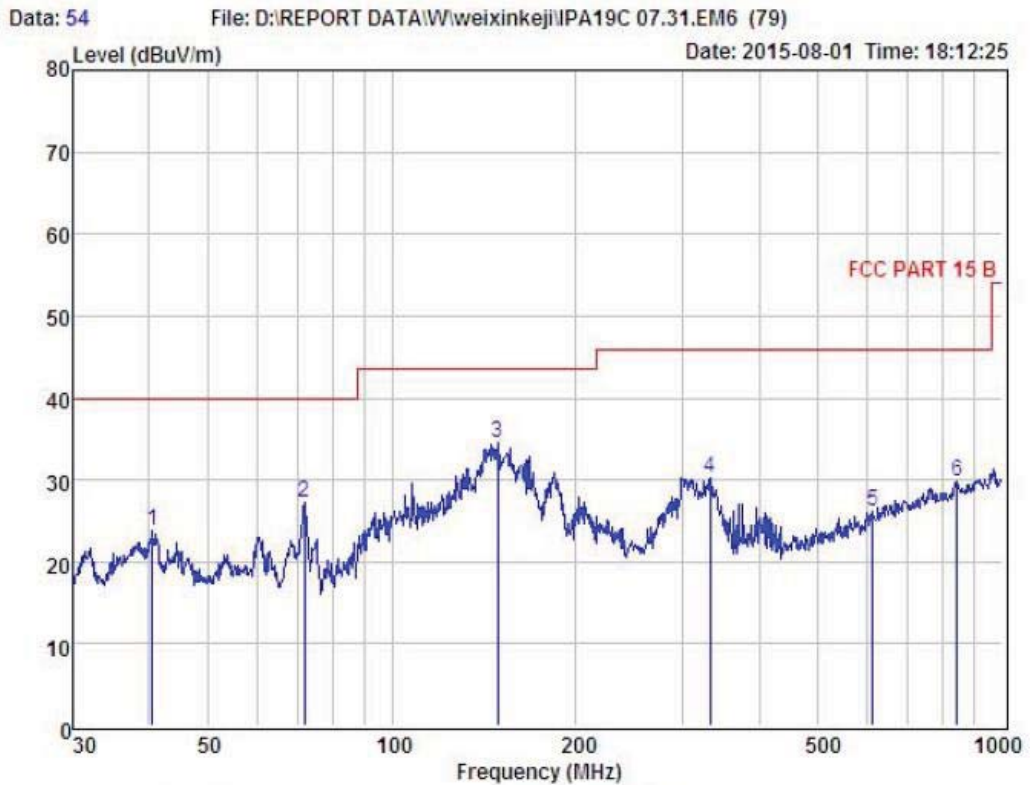


Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT :
 Model No : IPA19C
 Test Mode :
 Power : AC 120V/60Hz
 Test Engineer :
 Remark : BI MODE
 Temp : 24.2℃
 Hum : 54%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	73.62	55.48	10.21	31.65	0.24	34.28	40.00	-5.72	Peak
2	106.01	45.34	10.74	31.35	0.40	25.13	43.50	-18.37	Peak
3	147.40	52.29	13.90	31.20	0.37	35.36	43.50	-8.14	Peak
4	187.75	47.42	10.71	30.99	0.55	27.69	43.50	-15.81	Peak
5	385.28	36.64	14.48	30.42	0.81	21.51	46.00	-24.49	Peak
6	724.26	35.66	19.97	29.25	1.54	27.92	46.00	-18.08	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

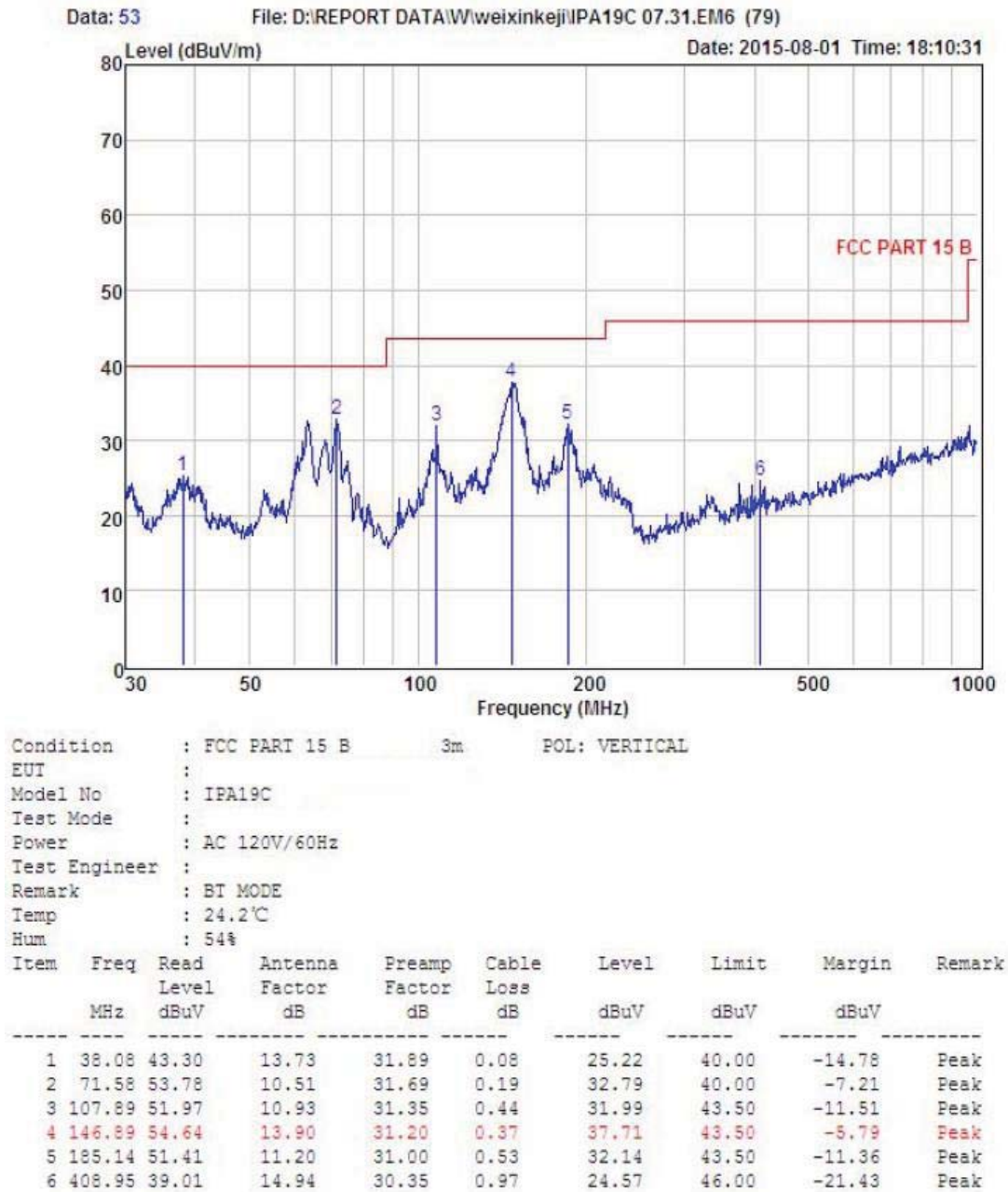
With Mingsheng Converter:



Condition : FCC PART 15 B 3m POL: HORIZONTAL
 EUT :
 Model No : IPA19C
 Test Mode :
 Power : AC 120V/60Hz
 Test Engineer :
 Remark : BT MODE
 Temp : 24.2°C
 Hum : 54%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	40.56	41.38	14.07	31.89	0.18	23.74	40.00	-16.26	Peak
2	71.83	48.17	10.51	31.69	0.19	27.18	40.00	-12.82	Peak
3	148.96	51.33	14.03	31.19	0.35	34.52	43.50	-8.98	Peak
4	332.52	46.45	13.55	30.52	0.79	30.27	46.00	-15.73	Peak
5	614.21	35.74	18.58	29.40	1.16	26.08	46.00	-19.92	Peak
6	842.13	36.34	20.98	29.13	1.69	29.88	46.00	-16.12	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Note: Tests are also performed with Lishi and Leiou rechargeable batteries, and only worst data listed in this report.

1GHz—25GHz Radiated emission Test result									
EUT: Party Power			M/N: iPA19C						
Power: AC 120V/60Hz									
Test date: 2015-08-04			Test site: 3m Chamber			Tested by: Peter			
Test mode: GFSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	41.76	33.95	10.18	34.26	51.63	74	22.37	PK
2	4804	32.38	33.95	10.18	34.26	42.25	54	11.75	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	42.65	33.95	10.18	34.26	52.52	74	21.48	PK
2	4804	31.59	33.95	10.18	34.26	41.46	54	12.54	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Party Power			M/N: iPA19C						
Power: AC 120V/60Hz									
Test date: 2015-08-04			Test site: 3m Chamber			Tested by: Peter			
Test mode: GFSK Tx CH40 2441MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	42.41	33.93	10.2	34.29	52.25	74	21.75	PK
2	4882	32.21	33.93	10.2	34.29	42.05	54	11.95	AV
3	7323	/							
4	9764	/							
5	12205	/							
Antenna Polarity: Horizontal									
1	4882	42.24	33.93	10.2	34.29	52.08	74	21.92	PK
2	4882	31.79	33.93	10.2	34.29	41.63	54	12.37	AV
3	7323	/							
4	9764	/							
5	12205	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emission Test result									
EUT: Party Power		M/N: iPA19C							
Power: AC 120V/60Hz									
Test date: 2015-08-04		Test site: 3m Chamber			Tested by: Peter				
Test mode: GFSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	42.69	33.98	10.22	34.25	52.64	74	21.36	PK
2	4960	31.91	33.98	10.22	34.25	41.86	54	12.14	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	42.72	33.98	10.22	34.25	52.67	74	21.33	PK
2	4960	32.14	33.98	10.22	34.25	42.09	54	11.91	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emission Test result									
EUT: Party Power			M/N: iPA19C						
Power: AC 120V/60Hz									
Test date: 2015-08-04			Test site: 3m Chamber			Tested by: Peter			
Test mode: π /4 DQPSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	42.26	33.95	10.18	34.26	52.13	74	21.87	PK
2	4804	31.75	33.95	10.18	34.26	41.62	54	12.38	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	42.28	33.95	10.18	34.26	52.15	74	21.85	PK
2	4804	32.03	33.95	10.18	34.26	41.9	54	12.1	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Party Power			M/N: iPA19C						
Power: AC 120V/60Hz									
Test date: 2015-08-04			Test site: 3m Chamber			Tested by: Peter			
Test mode: π /4 DQPSK Tx CH40 2441MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	42.38	33.93	10.2	34.29	52.22	74	21.78	PK
2	4882	31.96	33.93	10.2	34.29	41.8	54	12.2	AV
3	7323	/							
4	9764	/							
5	12205	/							
Antenna Polarity: Horizontal									
1	4882	42.38	33.93	10.2	34.29	52.22	74	21.78	PK
2	4882	31.75	33.93	10.2	34.29	41.59	54	12.41	AV
3	7323	/							
4	9764	/							
5	12205	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									