Report No.: T1850893 06

		1GI	Hz—25G	Hz Rad	iated en	nissison Tes	st result		
EUT: Pa	rty F	Power	M/N:	iPA19	С				
Power: A	AC 1	20V/60Hz							
Test date	e: 20	15-08-04	Test site	e: 3m C	hamber	Tested by	y: Peter		
Test mod	de: 1	π /4 DQPSI	K Tx Cl	H79 248	80MHz				
Antenna	pola	arity: Vertic	al						
En	2.2	Read	Antenna	Cable	Amp	Result	Limit	Manain	
INOL	eq Hz)	Level	Factor	loss(d	Factor	(dBuV/m)	(dBuV/	Margin	Remark
(IVII	ΠZ)	(dBuV/m)	(dB/m)	B)	(dB)	(ubu v/III)	m)	(dB)	
1 49	60	42.28	33.98	10.22	34.25	52.23	74	21.77	PK
2 49	60	32.13	33.98	10.22	34.25	42.08	54	11.92	AV
3 74	40	/							
4 99	20	/							
5 124	100	/							
Antenna	Pola	arity: Horizo	ontal						
1 49	60	42.66	33.98	10.22	34.25	52.61	74	21.39	PK
2 49	60	32.23	33.98	10.22	34.25	42.18	54	11.82	AV
3 74	40	/							
4 99	20	/							
5 124	400	/							

- 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

		101	1Z—23UI	1Z Kaul	iated en	nssison re	st resuit		
EUT	: Bluetoo	oth earphon	e		M/N: N	MDS-800X			
Pow	er: AC 12	20V/60Hz							
Test	date: 201	15-01-07	Test site	: 3m Cl	namber	Tested by	y: Peter		
Test	mode: 8-	- DQPSK T	x CH1 24	02MHz	Z				
Ante	enna pola	rity: Vertica	al						
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	42.27	33.95	10.18	34.26	52.14	74	21.86	PK
2	4804	31.66	33.95	10.18	34.26	41.53	54	12.47	AV
3	7206	/							
4	9608	/							
5	12010	/							
Ante	enna Pola	rity: Horizo	ntal		•				
1	4804	41.95	33.95	10.18	34.26	51.82	74	22.18	PK
2	4804	31.32	33.95	10.18	34.26	41.19	54	12.81	AV
3	7206	/							
4	9608	/							
5	12010	/							
N.T. 4								•	

- 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

Report No.: T1850893 06

		1 011		12 1100010		10010011 1 00.	1 4 5 6710		
EUT:	Bluetoot	h earphone		M	/N: MD	S-800X			
Powe	r: AC 120)V/60Hz							
Test c	late: 2015	5-01-07	Test site:	3m Cha	mber	Tested by:	Peter		
Test r	node: 8- I	OQPSK Tx (CH40 244	1MHz					
Anten	ına polari	ty: Vertical							
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	42.08	33.93	10.2	34.29	51.92	74	22.08	PK
2	4882	31.75	33.93	10.2	34.29	41.59	54	12.41	AV
3	7323	/							
4	9764	/							
5	12205	/							
Anten	ına Polari	ty: Horizon	ital						
1	4882	42.26	33.93	10.2	34.29	52.1	74	21.9	PK
2	4882	31.87	33.93	10.2	34.29	41.71	54	12.29	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.

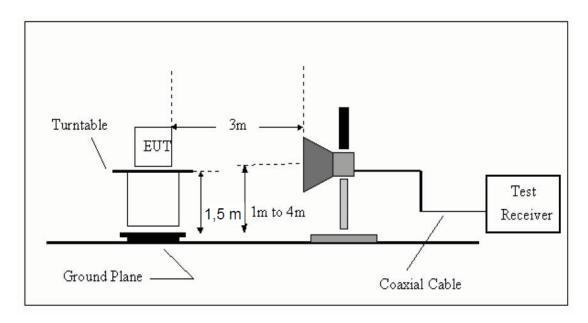
Report No.: T1850893 06

	1GHz—25GHz Radiated emissison Test result										
EU.	Γ: Blueto	oth earphon	ie	M/	N: MD	S-800X					
Pow	ver: AC	120V/60H	Z								
Test	t date: 20	15-01-07	Test site	e: 3m C	hamber	Tested by	y: Peter				
Test	t mode: 8	- DQPSK	Гх СН79	2480M	Hz						
Ant	enna pola	rity: Vertic	al								
	Emag	Read	Antenna	Cable	Amp	Result	Limit	Monain			
No	Freq	Level	Factor	loss(d	Factor	(dBuV/m)	(dBuV/	Margin	Remark		
	(MHz)	(dBuV/m)	(dB/m)	B)	(dB)	(ubu v/III)	m)	(dB)			
1	4960	42.06	33.98	10.22	34.25	52.01	74	21.99	PK		
2	4960	41.28	33.98	10.22	34.25	51.23	54	2.77	AV		
3	7440	/									
4	9920	/									
5	12400	/									
Ant	enna Pola	arity: Horizo	ontal								
1	4960	42.38	33.98	10.22	34.25	52.33	74	21.67	PK		
2	4960	31.75	33.98	10.22	34.25	41.7	54	12.3	AV		
3	7440	/									
4	9920	/									
5	12400	/									

- 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.

9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

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

9.3. Test Procedure

All restriction band and non- restriction band have been tested , only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

Radiated Method

GFSK (CH Low)

			Band Ed	dge Test	result			
EUT: Party P	ower	N	M/N: iP	A19C				
Power: AC 12	20V/60Hz							
Test date: 20	15-08-04	Test site	: 3m Cł	namber	Tested by	: Peter		
Test mode: T	x CH Low 2	2402MHz	Z					
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.04	27.62	3.92	34.97	39.61	74	34.39	PK
2390		27.62	3.92	34.97		54		AV
2400	42.37	27.62	3.94	34.97	38.96	74	35.04	PK
2400		27.62	3.94	34.97		54		AV
Antonno Dolo	ritu Uorigo	ontol						
Antenna Pola			2.02	24.07	20.1	74	240	DIZ
2390	42.53	27.62 27.62	3.92	34.97 34.97	39.1	74 54	34.9	PK AV
2400	42.74	27.62	3.94	34.97	39.33	74	34.67	PK
2400		27.62	3.94	34.97		54		AV
Note:								

- 1, 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.

GFSK (CH High)

			Band Ed	dge Test	result			
EUT: Party P	ower	N	M/N: iP	A19C				
Power: AC 12	20V/60Hz							
Test date: 201	15-08-04	Test site	: 3m Cł	namber	Tested by	: Peter		
Test mode: T	x CH High	2480MHz	Z					
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	42.37	27.89	4	34.97	39.29	74	34.71	PK
2483.5						54		AV
Antenna Pola	rity: Horizo	ntal						
2483.5	42.56	27.89	4	34.97	39.48	74	34.52	PK
2483.5						54		AV
Notes								

- 1, 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.

GFSK (Hopping Low)

			Band Ed	ige Test	result			
EUT: Party P	ower	N	M/N: iP	A19C				
Power: AC 12	20V/60Hz							
Test date: 20	15-08-04	Test site	: 3m Cł	namber	Tested by	: Peter		
Test mode: T	X							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	41.37	27.62	3.92	34.97	37.94	74	36.06	PK
2390		27.62	3.92	34.97		54		AV
Antenna Pola	rity: Horizo	ontal						
2390	42.37	27.62	3.92	34.97	38.94	74	35.06	PK
2390		27.62	3.92	34.97		54		AV
N.T.								

- 1, 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.

GFSK (Hopping High)

			Band Ed	dge Test	result			
EUT: Party P	ower	1	M/N: iP	A19C				
Power: AC 12	20V/60Hz							
Test date: 201	15-08-04	Test site	: 3m Cl	namber	Tested by	: Peter		
Test mode: T	X							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	41.89	27.89	4	34.97	38.81	74	35.19	PK
2483.5						54		AV
Antenna Pola	rity: Horizo	ontal						
2483.5	42.11	27.89	4	34.97	39.03	74	34.97	PK
2483.5						54		AV

- 1, 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.

π /4 DQPSK (CH Low)

			Band Ed	dge Test	result			
EUT: Party P	ower	1	M/N: iP	A19C				
Power: AC 12	20V/60Hz							
Test date: 201	15-08-04	Test site	: 3m Cł	namber	Tested by	: Peter		
Test mode: T	x CH Low 2	2402MHz	7					
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	42.19	27.62	3.92	34.97	38.76	74	35.24	PK
2390		27.62	3.92	34.97		54		AV
Antonno Dolo	nitru Hanisa	ontol						
Antenna Pola	42.51		2.02	24.07	20.09	74	24.02	DIZ
2390	42.51	27.62	3.92	34.97	39.08		34.92	PK
2390		27.62	3.92	34.97		54		AV
Nata								

- 1, 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.

π /4 DQPSK (CH High)

			Band Ed	dge Test	result			
EUT: Party F	ower	1	M/N: iP	A19C				
Power: AC 1	20V/60Hz							
Test date: 20	15-08-04	Test site	: 3m Cł	namber	Tested by	: Peter		
Test mode: T	x CH High	2480MH	Z					
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	41.6	27.89	4	34.97	38.52	74	35.48	PK
2483.5						54		AV
Antenna Pola	rity: Horizo	ntal		•				
2483.5	42.04	27.89	4	34.97	38.96	74	35.04	PK
2483.5						54		AV
Nicker								

- 1, 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.

π /4 DQPSK (Hopping Low)

EUT: Party P	ower	I	M/N: iP	A19C				
Power: AC 12	20V/60Hz							
Test date: 20	15-08-04	Test site	: 3m Cl	namber	Tested by	: Peter		
Test mode:								
Antenna pola	rity: Vertica	al						
	Read	Antenna	Cable	Amp	D 14	т,		
Freq	Level	Factor	loss(d	Factor	Result	Limit	Margin	Remark
(MHz)	(dBuV/m)	(dB/m)	B)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2390	42.19	27.62	3.92	34.97	38.76	74	35.24	PK
2390		27.62	3.92	34.97		54		AV
Antenna Pola	rity: Horizo	ontal						
2390	42.15	27.62	3.92	34.97	38.72	74	35.28	PK
2390		27.62	3.92	34.97		54		AV
NT - 4								

Band Edge Test result

- 1, 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.

 π /4 DQPSK (Hopping High)

			Band Ed	dge Test	result			
EUT: Party P	ower	ľ	M/N: iP	A19C				
Power: AC 1	20V/60Hz							
Test date: 20	15-08-04	Test site	: 3m Cl	namber	Tested by	: Peter		
Test mode: T	X							
Antenna pola	rity: Vertica	al						
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	41.37	27.89	4	34.97	38.29	74	35.71	PK
2483.5						54		AV
Antenna Pola	ırity: Horizo	ntal						
2483.5	42.62	27.89	4	34.97	39.54	74	34.46	PK
2483.5						54		AV
	1	I		1	I	1	1	

- 1, 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.

8- DPSK (CH Low)

			Band Ed	dge Test	result						
EUT: Party Power M/N: iPA19C											
Power: AC 12	20V/60Hz										
Test date: 2015-08-04 Test site: 3m Chamber Tested by: Peter											
Test mode: T	x CH Low 2	2402MHz	Z								
Antenna pola	rity: Vertica	al									
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Factor $\begin{pmatrix} \text{Result} & \text{Limit} & \text{Matter} \\ (d\text{RuV/m}) & (d\text{RuV/m}) \end{pmatrix}$		Margin (dB)	Remark			
2390	42.3	27.62	3.92	34.97	38.87	74	35.13	PK			
2390		27.62	3.92	34.97		54		AV			
Antenna Pola	rity: Horizo	ntal									
2390	42.51	27.62	3.92	34.97	39.08	74	34.92	PK			
2390		27.62	3.92	34.97		54		AV			
NT 4											

- 1, 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.

8- DPSK (CH High)

			Band Ed	ige Test	resuit						
EUT: Party P	ower	ľ	M/N: iP	A19C							
Power: AC 1	20V/60Hz										
Test date: 2015-08-04 Test site: 3m Chamber Tested by: Peter											
Test mode: T	x CH High	2480MH	Z								
Antenna pola	rity: Vertica	al									
Freq (MHz)	Read Antenna Cable A Freq Level Factor loss(d F		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
2483.5	41.35	27.89	4	34.97	38.27	74	35.73	PK			
2483.5						54		AV			
Antenna Pola	Antenna Polarity: Horizontal										
2483.5	42.7	27.89	4	34.97	39.62	74	34.38	PK			
2483.5						54		AV			
N.T. 4											

Rand Edge Test result

- 1, 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.

8- DPSK (Hopping Low)

			Band Ed	dge Test	result					
EUT: Party Power M/N: iPA19C										
Power: AC 12	20V/60Hz									
Test date: 2015-08-04 Test site: 3m Chamber Tested by: Peter										
Test mode: T	X									
Antenna pola	rity: Vertica	al								
Freq (MHz)	Read Level (dBuV/m)	Read Antenna Ca Level Factor los		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark		
2390	42.02	27.62	3.92	34.97	38.59	74	35.41	PK		
2390		27.62	3.92	34.97		54		AV		
Antenna Pola	rity: Horizo	ntal								
2390	42.55	27.62	3.92	34.97	39.12	74	34.88	PK		
2390		27.62	3.92	34.97		54		AV		

- 1, 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.

8- DPSK (Hopping High)

		Band Ed	dge Test	result							
EUT: Party Power M/N: iPA19C											
20V/60Hz											
Test date: 2015-08-04 Test site: 3m Chamber Tested by: Peter											
X											
arity: Vertica	al										
Read Antenna Cable Amp		Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark					
41.44	27.89	4	34.97	38.36	74	35.64	PK				
					54		AV				
arity: Horizo	ntal										
42.15	27.89	4	34.97	39.07	74	34.93	PK				
					54		AV				
	20V/60Hz 15-08-04 Ex Arity: Vertica Read Level (dBuV/m) 41.44 arity: Horizo	20V/60Hz 15-08-04 Test site Ex Parity: Vertical Read Antenna Level Factor (dBuV/m) (dB/m) 41.44 27.89 Parity: Horizontal	Power M/N: iP 20V/60Hz 15-08-04 Test site: 3m Ch Ex arity: Vertical Read Antenna Cable Level Factor loss(d (dBuV/m) (dB/m) B) 41.44 27.89 4 arity: Horizontal 42.15 27.89 4	Power M/N: iPA19C 20V/60Hz 15-08-04 Test site: 3m Chamber Tx arity: Vertical Read Antenna Cable Amp Factor loss(d Factor (dBuV/m) (dB/m) B) (dB) 41.44 27.89 4 34.97 arity: Horizontal 42.15 27.89 4 34.97	20V/60Hz 15-08-04 Test site: 3m Chamber Tested by Tax Parity: Vertical Read Antenna Cable Amp Factor (dBuV/m) (dB/m) B) (dB) 41.44 27.89 4 34.97 38.36	Power M/N: iPA19C 20V/60Hz 15-08-04 Test site: 3m Chamber Tested by: Peter Exarity: Vertical Read Antenna Cable Amp Factor (dBuV/m) (dB/m) B) (dB) 41.44 27.89 4 34.97 38.36 74 54 arity: Horizontal 42.15 27.89 4 34.97 39.07 74	Note				

- 1, 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.

Conducted Method GFSK

CH LOW:

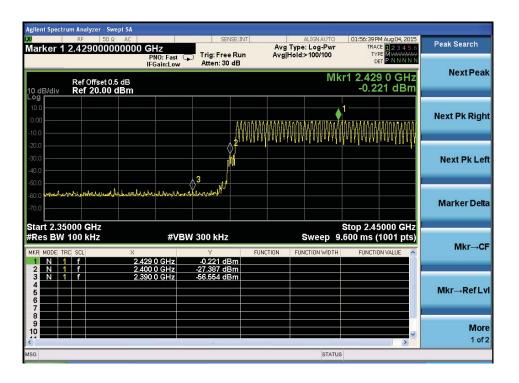


CH High:

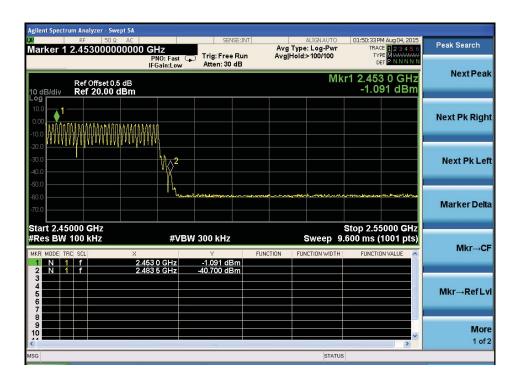


Hopping

Low

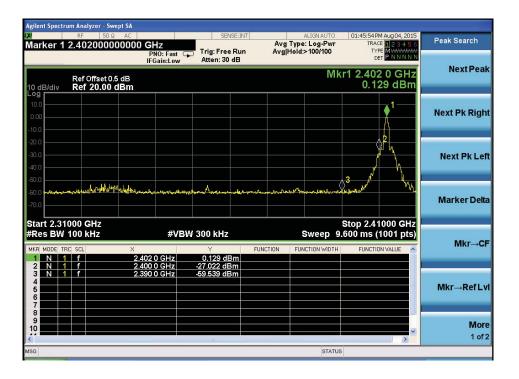


High

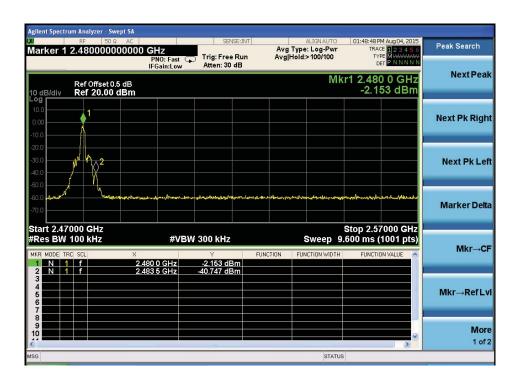


π /4 DQPSK

Low

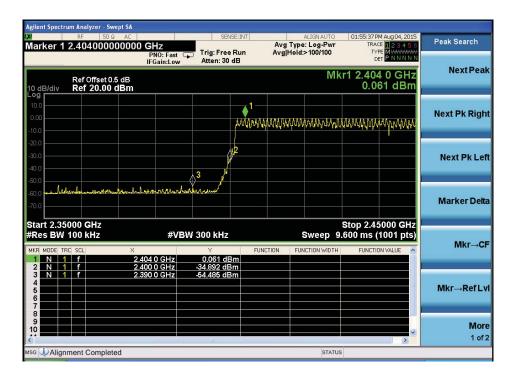


High

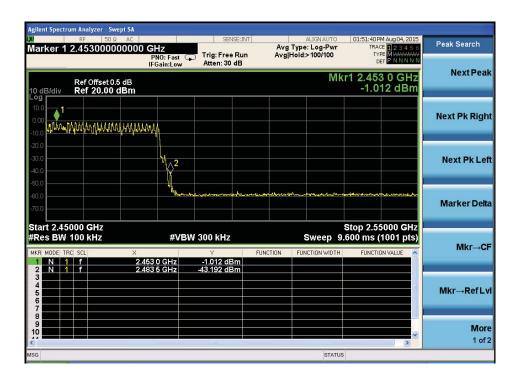


Hopping

Low



High

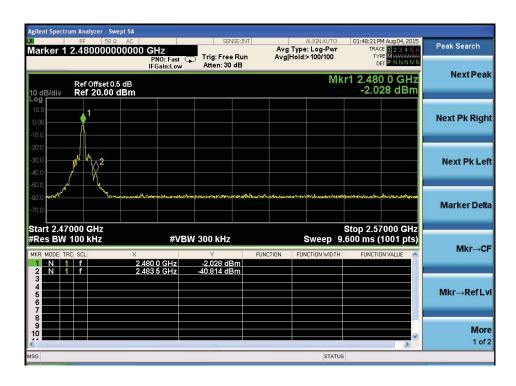


8- DPSK:

Low

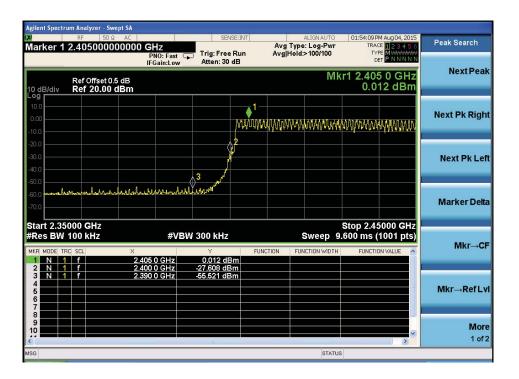


High

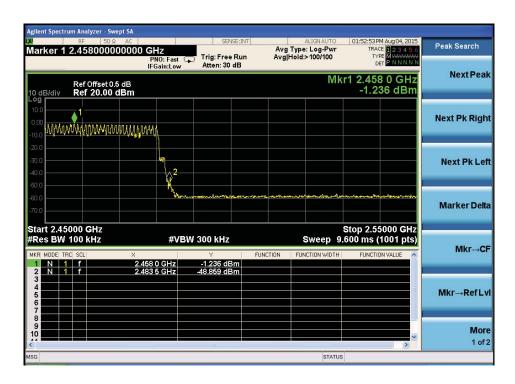


Hopping

Low



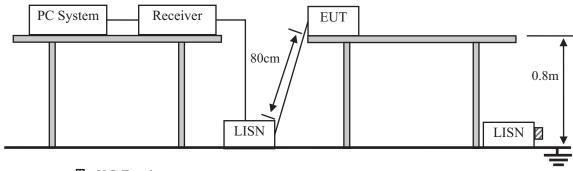
High



Report No.: T1850893 06

10. Power Line Conducted Emissions

10.1.Block Diagram of Test Setup



 \mathbf{Z} :50 Ω Terminator

10.2.Limit

	Maximum RF Line Voltage					
Frequency	Quasi-Peak Level	Average Level				
	$dB(\mu V)$	$dB(\mu V)$				
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*				
500kHz ~ 5MHz	56	46				
5MHz ~ 30MHz	60	50				

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

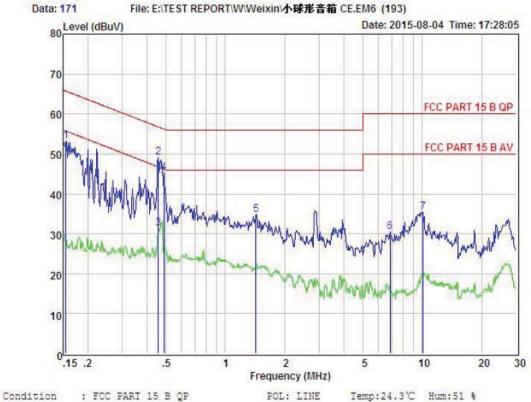
10.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. 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 conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

PASS. (See below detailed test data)

Mingsheng Conventor



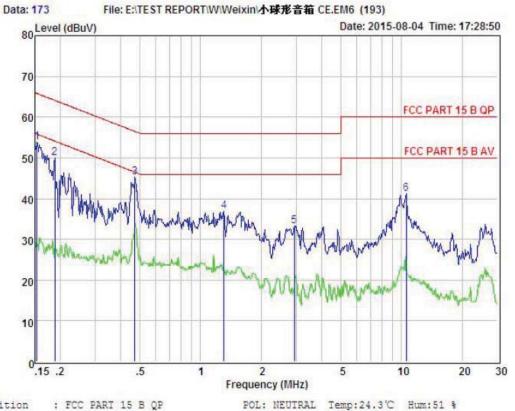
EUT Model No

Test Mode : BI MODE : AC 120V/60Hz

Test Engineer: : 明盛 Remark

Ite		Read	LISN Factor	Preamp Factor	Cable	SES NAS	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.155	43.35	0.03	-9.72	0.10	53.20	65.74	-12.54	Peak
2	0.456	39.22	0.03	-9.72	0.10	49.07	56.76	-7.69	Peak
3	0.456	21.38	0.03	-9.72	0.10	31.23	46.76	-15.53	Average
4	0.489	35.45	0.03	-9.72	0.10	45.30	56.19	-10.89	Peak
5	1.433	24.97	0.05	-9.71	0.10	34.83	56.00	-21.17	Peak
6	6.878	20.66	0.12	-9.55	0.15	30.48	60.00	-29.52	Peak
7	10.072	25.51	0.18	-9.52	0.21	35.42	60.00	-24.58	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



Condition : FCC PART 15 B QP

EUT

Model No

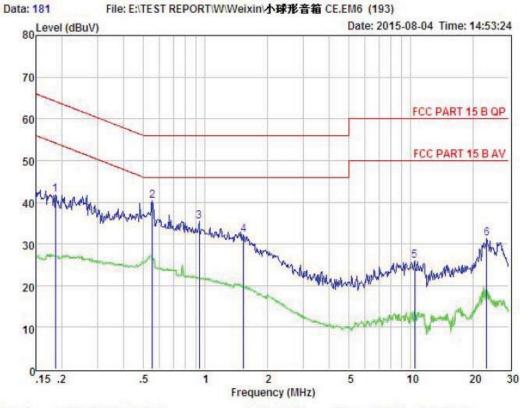
Test Mode : BI MODE Power : AC 120V/60Hz

Test Engineer:

Remark : 明盛

I	tem	Freq	Read	LISN Factor	Preamp Factor		Level	Limit	Margin	Remark
		MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
	1	0.153	43.94	0.03	-9.72	0.10	53.79	65.82	-12.03	Peak
	2	0.188	40.14	0.03	-9.72	0.10	49.99	64.11	-14.12	Peak
	3	0.471	35.39	0.03	-9.72	0.10	45,24	56.49	-11.25	Peak
	4	1.310	26.96	0.05	-9.71	0.10	36.82	56.00	-19.18	Peak
	5	2.931	23.35	0.07	-9.70	0.12	33.24	56.00	-22.76	Peak
	6	10.564	31.30	0.21	-9.50	0.22	41.23	60.00	-18.77	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



Condition : FCC PART 15 B QP POL: LINE Temp:24.3°C Hum:51 %

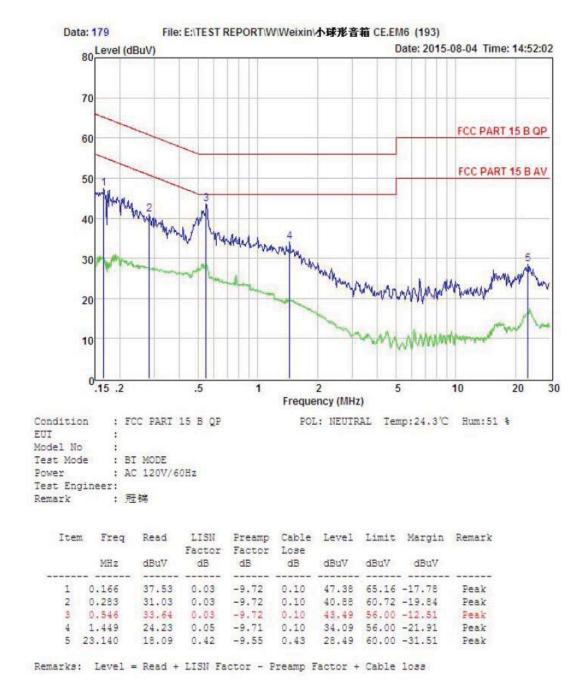
EUT : Model No :

Test Mode : BI MODE
Power : AC 120V/60Hz

Test Engineer: Remark : 短锦

Item	Freq	Read	LISN Factor	SEATING THE STATE		Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.186	32.05	0.03	-9.72	0.10	41.90	64.20	-22.30	Peak
2	0.552	30.53	0.03	-9.72	0.10	40.38	56.00	-15.62	Peak
3	0.933	25.48	0.04	-9.71	0.10	35.33	56.00	-20.67	Peak
4	1.535	22.34	0.05	-9.71	0.10	32.20	56.00	-23.80	Peak
5	10.452	16.11	0.20	-9.51	0.21	26.03	60.00	-33.97	Peak
6	23,387	20.91	0.43	-9.56	0.44	31.34	60.00	-28.66	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



Note1: If QP Result comply with AV limit, AV Result is deemed to comply with AV limit Note2: Tests are also performed with Lishi and Leiou rechargeable batteries, and only worst data listed in this report.

Report No.: T1850893 06

11. Antenna Requirements

11.1.Limit

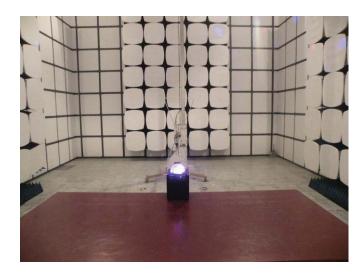
For intentional device, according to RSS-GEN, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to RSS-GEN, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2.Result

The antennas used for this product are PCB Antenna for Bluetooth, no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

12. Test setup photo

12.1.Photos of Radiated emission





12.2.Photos of Conducted Emission test



13. Photos of EUT







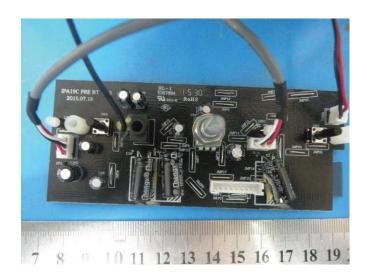


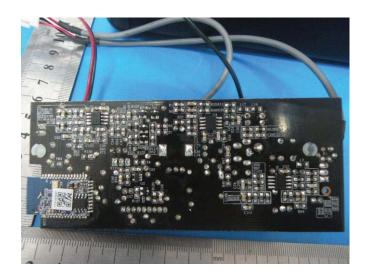




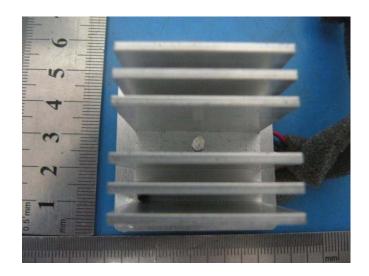


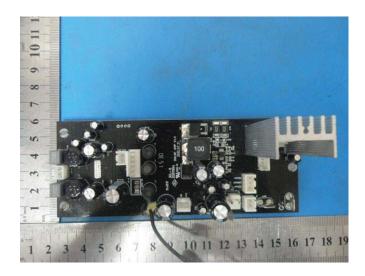


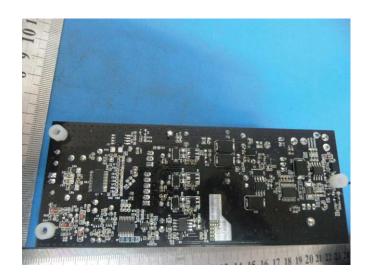












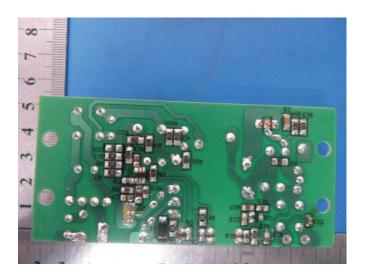


Guanjin AC/DC convertor





Mingsheng AC/DC convertor





Lishi battery



Leiou Battery

-----END OF THE REPORT-----