

Appendix C: Test Results of FCC 15B & ICES-003

APPENDIX C: TEST RESULTS OF FCC 15B & ICES-003	1
APPENDIX C.1: TEST PLOTS OF RADIATED EMISSION, BELOW 1GHz	2
<i>BT mode</i>	2
APPENDIX C.2: TEST PLOTS OF RADIATED EMISSION, ABOVE 1GHz	6
<i>BT mode</i>	6

Appendix C.1: Test Plots of Radiated Emission, Below 1GHz

BT mode

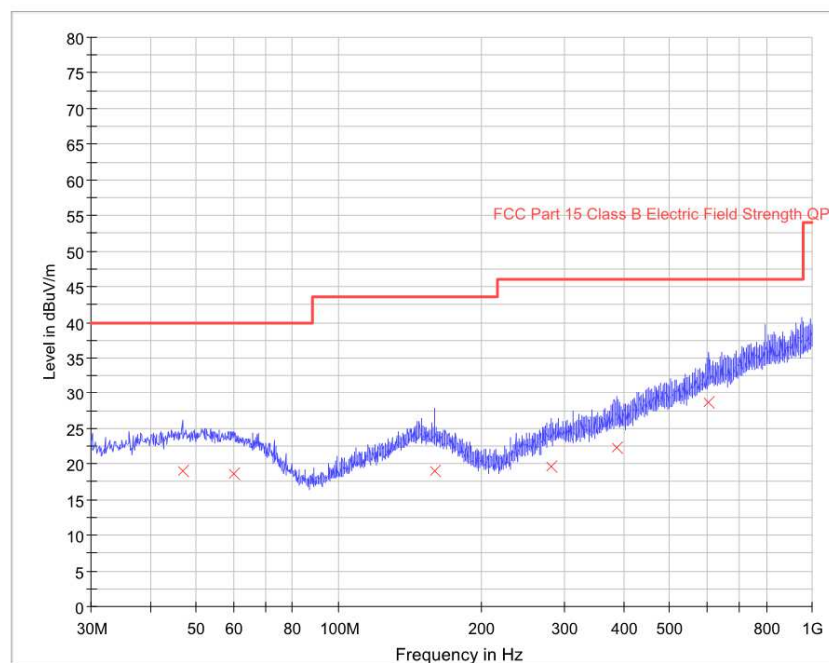
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	UNI-TREND
Test Item:	Bluetooth Adapter
Identification:	UT-D07B
Test Standard:	FCC Part 15B
Test Detail:	Radiated Emission
Operation Mode:	A.1
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal
Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Chris Liang* 20210330
Reviewed by: *Jacky Chen* 20210401

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
46.720000	19.1	1000.0	120.000	H	20.6	20.9	40.0	
60.200000	18.5	1000.0	120.000	H	20.2	21.5	40.0	
159.360000	19.1	1000.0	120.000	H	21.2	24.4	43.5	
281.960000	19.6	1000.0	120.000	H	21.5	26.4	46.0	
386.120000	22.3	1000.0	120.000	H	24.3	23.7	46.0	
606.800000	28.7	1000.0	120.000	H	29.8	17.3	46.0	

Tested by: *Chris Liang* 20210330
Reviewed by: *Jacky Chen* 20210401

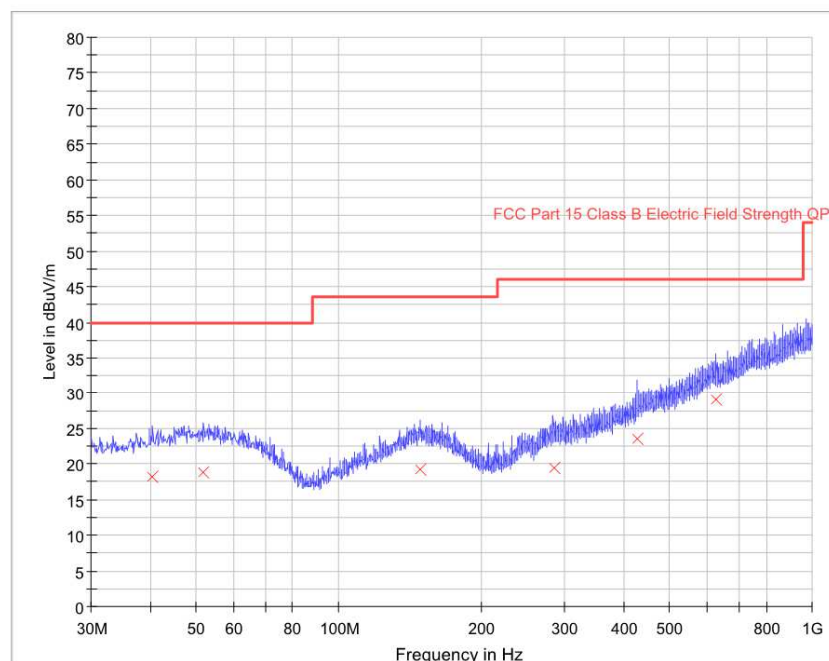
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	UNI-TREND
Test Item:	Bluetooth Adapter
Identification:	UT-D07B
Test Standard:	FCC Part 15B
Test Detail:	Radiated Emission
Operation Mode:	A.1
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical
Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: *Chris Liang* 20210330 Reviewed by: *Jody Chen* 20210401

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)	Comment
40.440000	18.3	1000.0	120.000	V	20.0	21.7	40.0	
51.840000	18.9	1000.0	120.000	V	20.6	21.1	40.0	
149.080000	19.3	1000.0	120.000	V	21.2	24.2	43.5	
284.400000	19.5	1000.0	120.000	V	21.6	26.5	46.0	
428.680000	23.5	1000.0	120.000	V	25.6	22.5	46.0	
624.480000	29.0	1000.0	120.000	V	30.2	17.0	46.0	

Tested by: *Chris Liang* 20210330 Reviewed by: *Jacky Chen* 20210401

Appendix C.2: Test Plots of Radiated Emission, Above 1GHz

BT mode

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

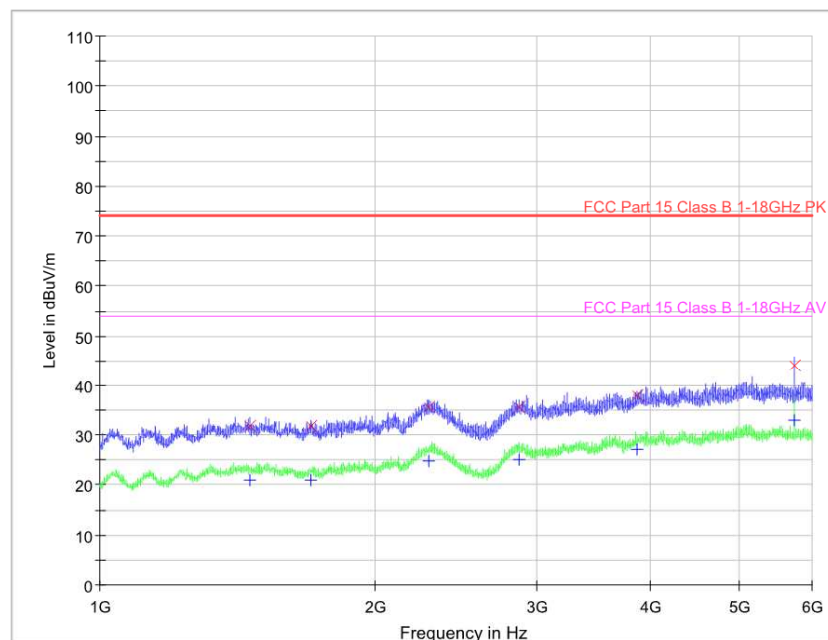
EMC Test Record (Emission)

Common Information

Manufacturer:	UNI-TREND
Test Item:	Bluetooth Adapter
Identification:	UT-D07B
Test Standard:	FCC Part 15B
Test Detail:	Radiated Emission
Operation Mode:	A.1
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal

Subrange 1	
Frequency Range:	1GHz-6 GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by: *Chris Liang* 20210330 Reviewed by: *Jacky Chen* 20210401

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1459.500000	31.7	1000.0	1000.000	H	-18.0	42.3	74.0
1703.500000	31.7	1000.0	1000.000	H	-16.9	42.3	74.0
2285.500000	35.5	1000.0	1000.000	H	-15.1	38.5	74.0
2877.000000	35.6	1000.0	1000.000	H	-13.3	38.4	74.0
3861.000000	37.8	1000.0	1000.000	H	-10.0	36.2	74.0
5745.500000	44.0	1000.0	1000.000	H	-7.3	30.0	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1459.500000	21.0	1000.0	1000.000	H	-18.0	33.0	54.0
1703.500000	20.9	1000.0	1000.000	H	-16.9	33.1	54.0
2285.500000	24.9	1000.0	1000.000	H	-15.1	29.1	54.0
2877.000000	25.0	1000.0	1000.000	H	-13.3	29.0	54.0
3861.000000	27.1	1000.0	1000.000	H	-10.0	26.9	54.0
5745.500000	32.9	1000.0	1000.000	H	-7.3	21.1	54.0

Tested by: *Chris Liang* 20210330 Reviewed by: *Jacky Chen* 20210401

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

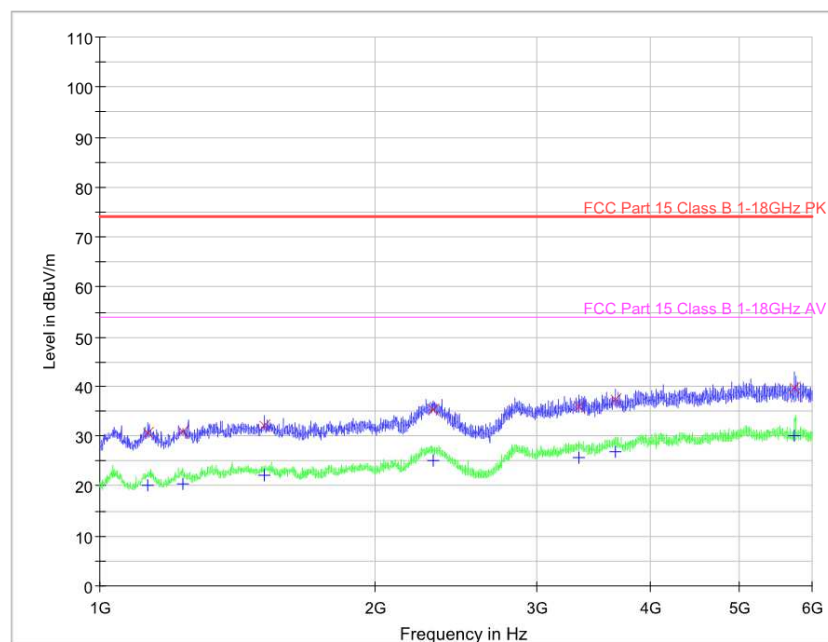
EMC Test Record (Emission)

Common Information

Manufacturer:	UNI-TREND
Test Item:	Bluetooth Adapter
Identification:	UT-D07B
Test Standard:	FCC Part 15B
Test Detail:	Radiated Emission
Operation Mode:	A.1
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m;Vertical

Subrange 1	
Frequency Range:	1GHz-6 GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907

EMCTT_EREFO11-A02-05_1GHz-18GHz_With PreAMP EXT



Tested by:	Chris Liang	Reviewed by:	Jody Chen
	20210330		20210401

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1129.500000	30.8	1000.0	1000.000	V	-19.2	43.2	74.0
1230.500000	31.0	1000.0	1000.000	V	-18.8	43.0	74.0
1513.500000	32.1	1000.0	1000.000	V	-17.8	41.9	74.0
2313.500000	35.3	1000.0	1000.000	V	-15.0	38.7	74.0
3340.000000	36.0	1000.0	1000.000	V	-12.1	38.0	74.0
3662.500000	37.4	1000.0	1000.000	V	-11.1	36.6	74.0
5737.000000	39.8	1000.0	1000.000	V	-7.3	34.2	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1129.500000	20.2	1000.0	1000.000	V	-19.2	33.8	54.0
1230.500000	20.5	1000.0	1000.000	V	-18.8	33.5	54.0
1513.500000	22.3	1000.0	1000.000	V	-17.8	31.7	54.0
2313.500000	25.1	1000.0	1000.000	V	-15.0	28.9	54.0
3340.000000	25.8	1000.0	1000.000	V	-12.1	28.2	54.0
3662.500000	26.8	1000.0	1000.000	V	-11.1	27.2	54.0
5737.000000	30.2	1000.0	1000.000	V	-7.3	23.8	54.0

Tested by: *Chris Liang* 20210330 Reviewed by: *Jacky Chen* 20210401