

Appendix A

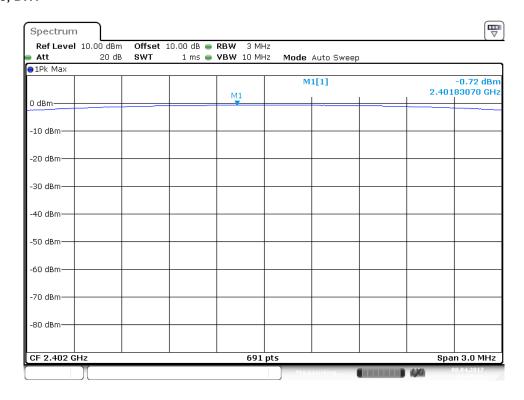
Test Results of Bluetooth 2.1+ EDR of Conducted Testing

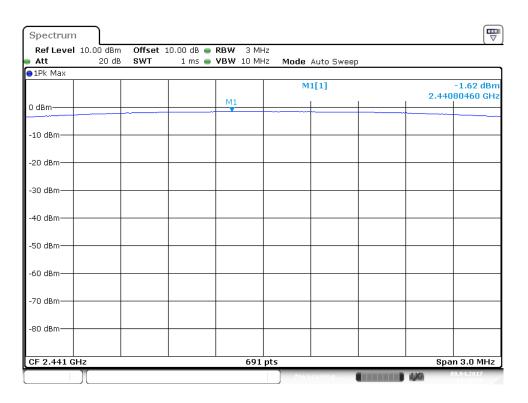
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Appendix A.1: Test Plots of Maximum Peak Conducted Output Power BDR Mode, DH1



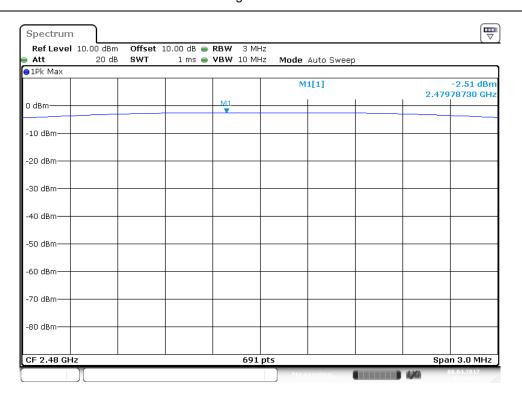




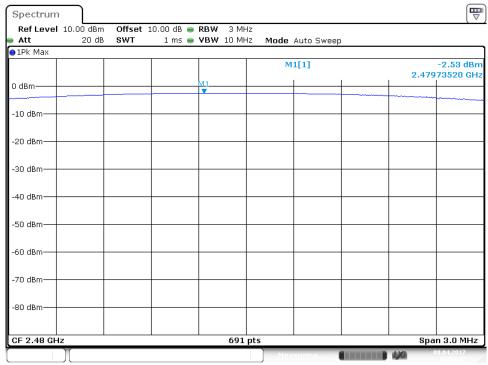
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EDR Mode, 3DH1

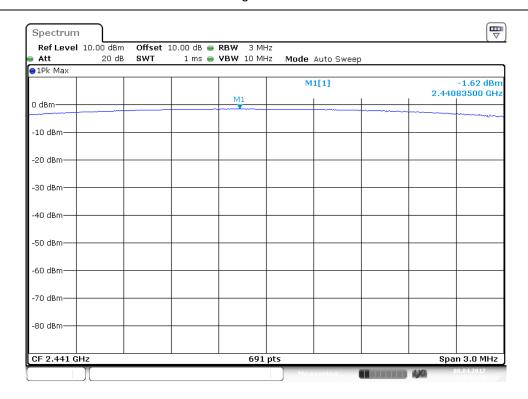


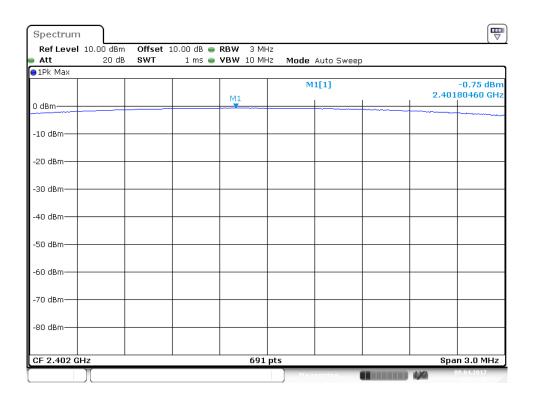


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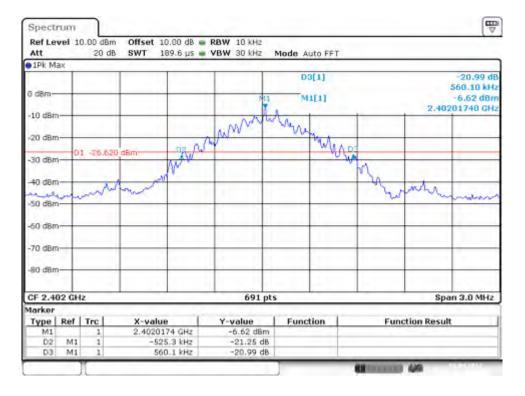


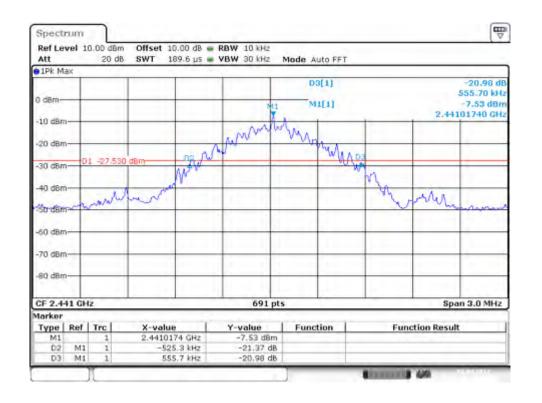
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Appendix A.2: Test Plots of 20dB Bandwidth

BDR Mode, DH1

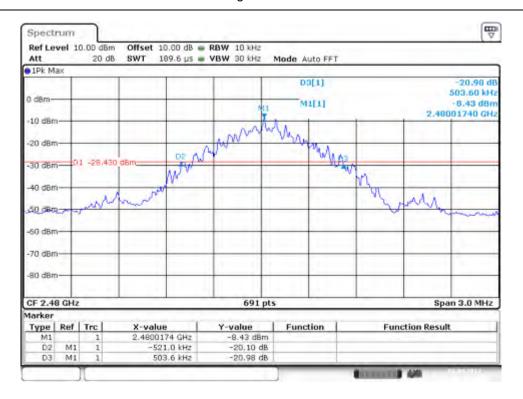




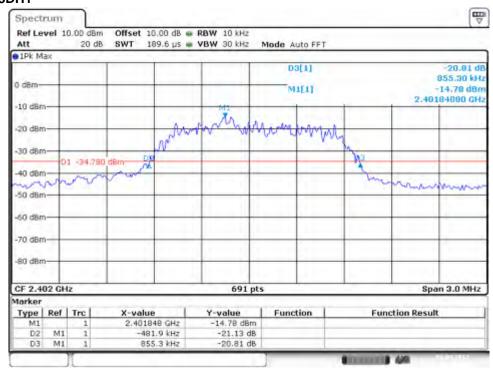


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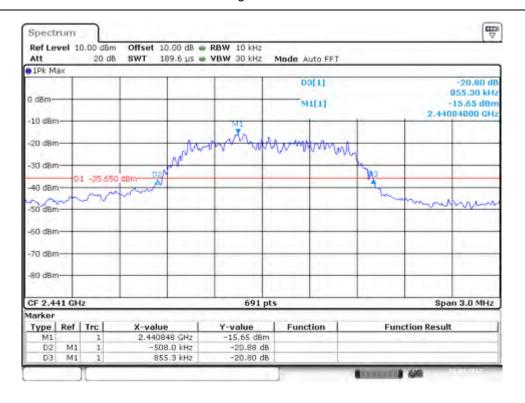
EDR Mode, 3DH1

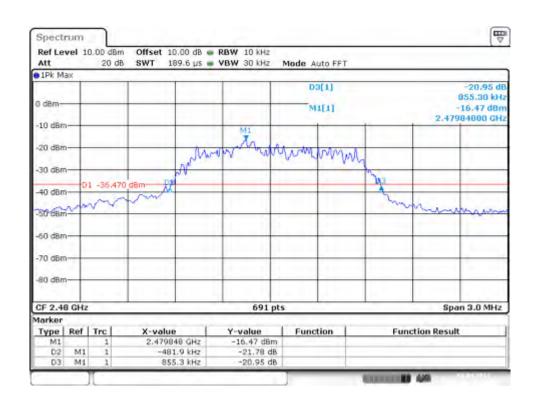




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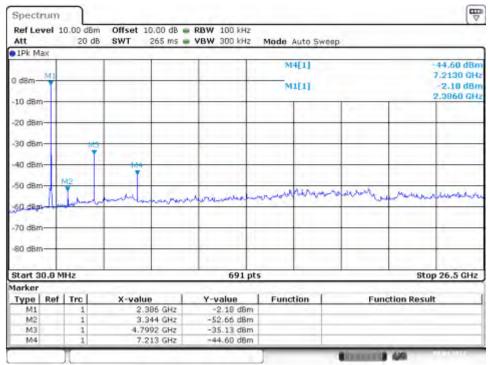
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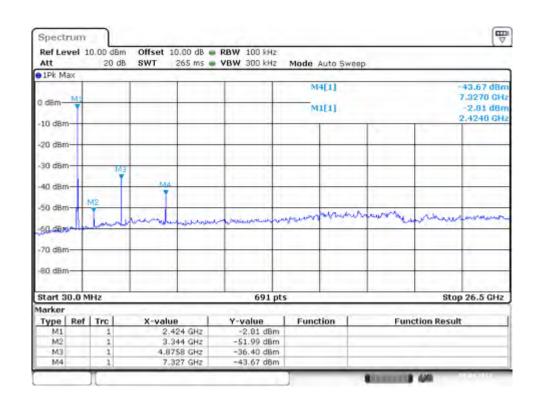




Appendix A.3: Test Plots of Conducted Spurious Emissions Measured in 100 kHz **Bandwidth**

BDR Mode, DH1



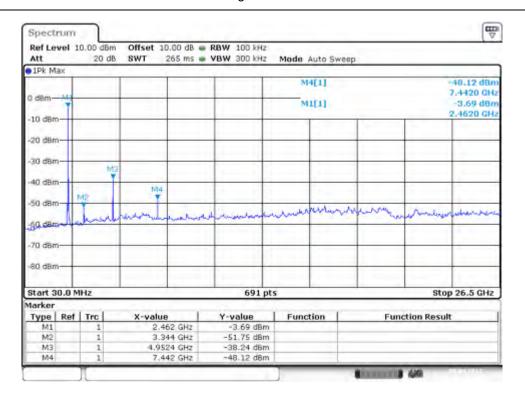




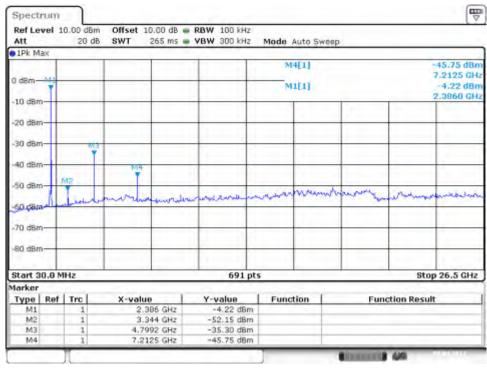
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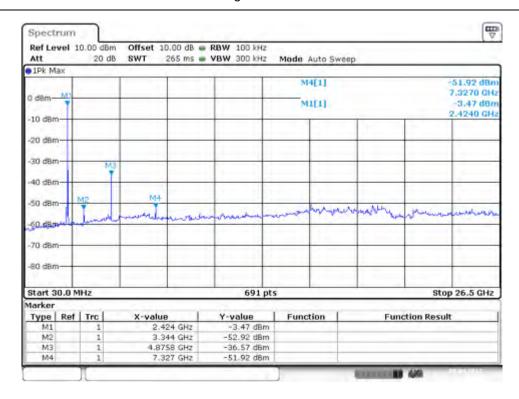
EDR Mode, 3DH1

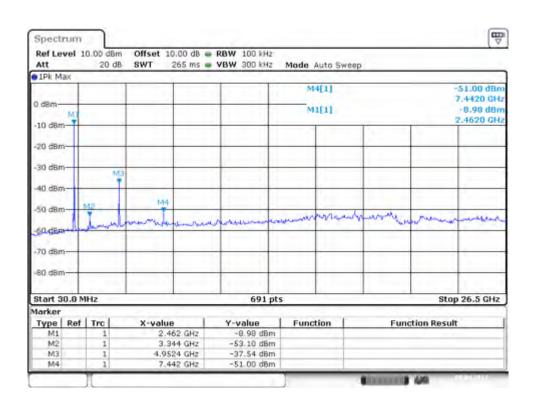




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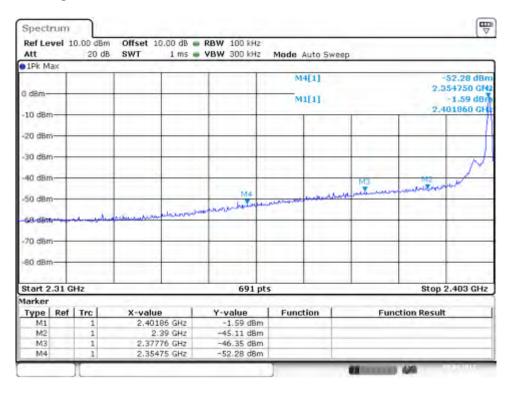


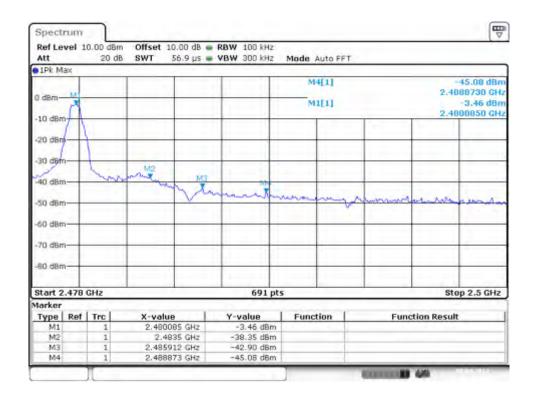


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BDR Mode, Band Edge



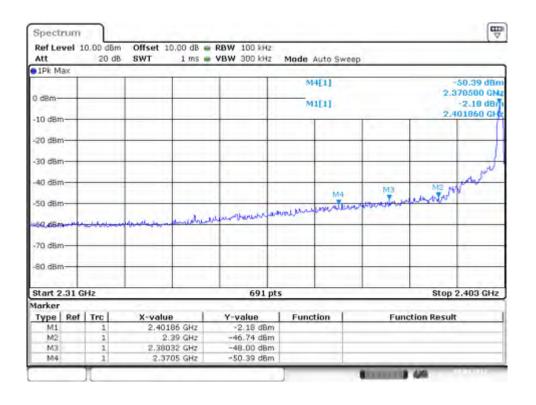


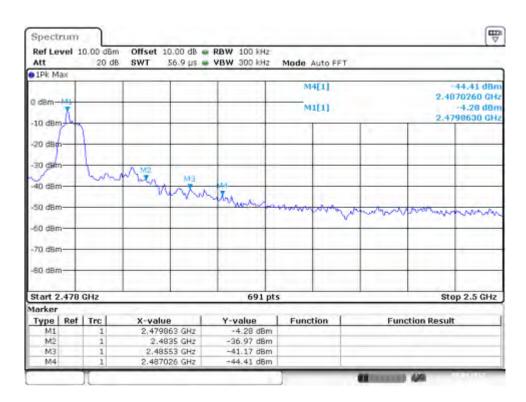


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EDR Mode, Band Edge







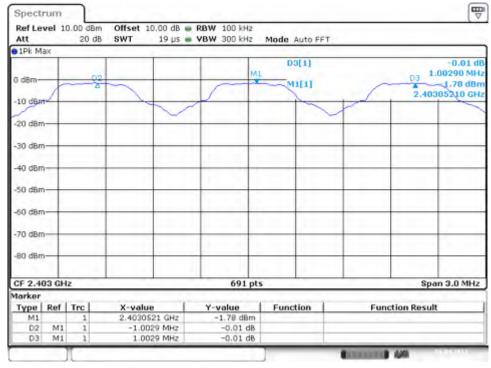
riangle $\mathsf{T}\ddot{\mathsf{U}}\mathsf{V}$ Rheinland $^{ ext{@}}$

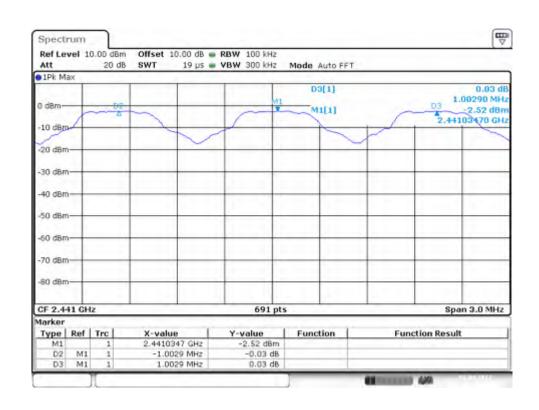
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Appendix A.4: Test Plots of Carrier Frequency Separation

Hopping Mode

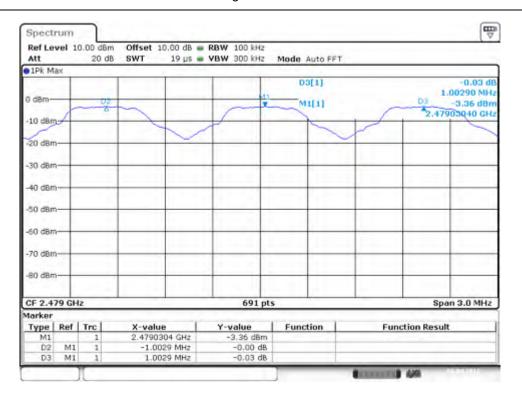






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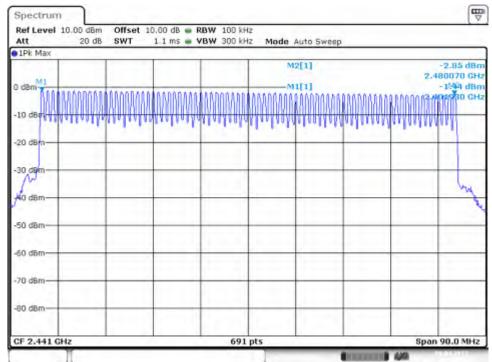




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Appendix A.5: Test Plots of Number of Hopping Frequency

Hopping Mode



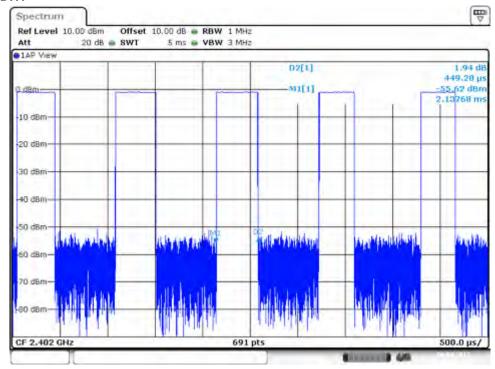
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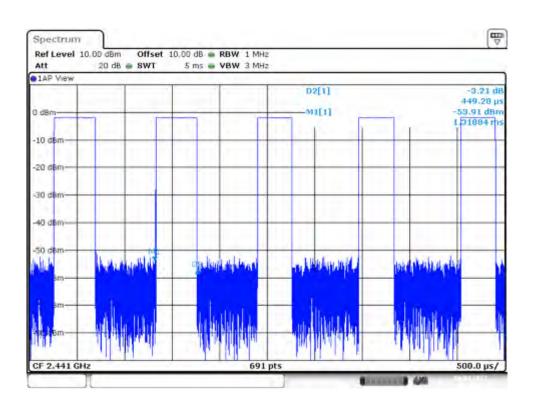


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Appendix A.6: Test Plots of Time of Occupancy

BDR Mode, DH1

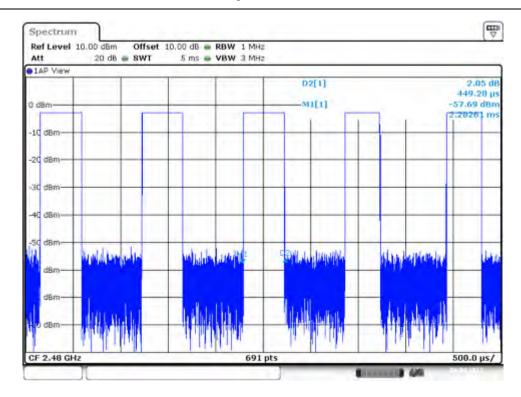




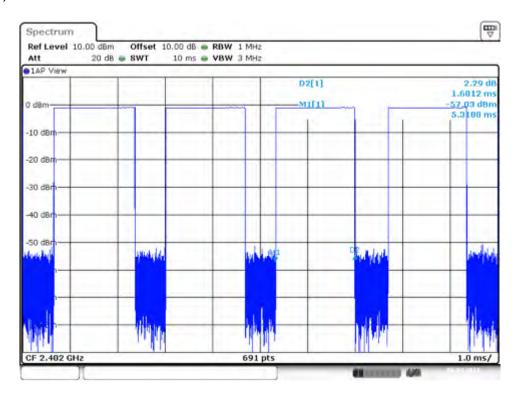


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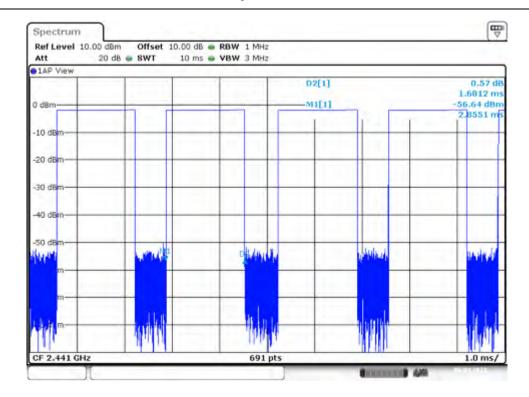
BDR Mode, DH3

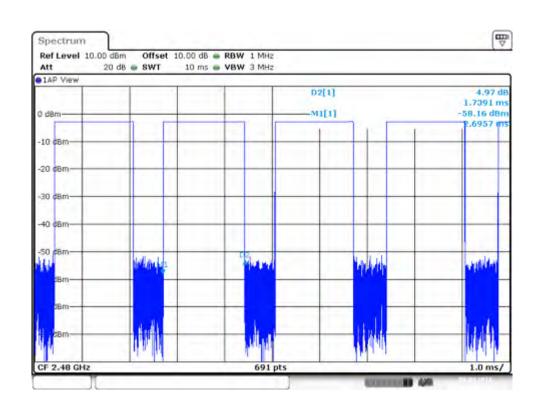




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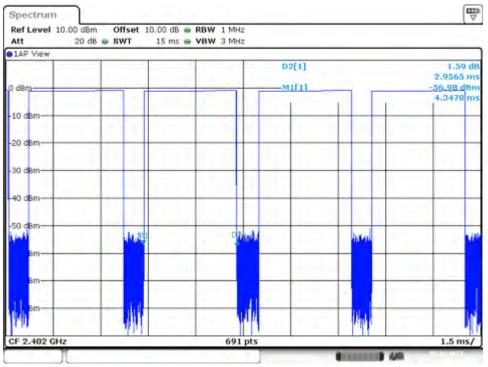


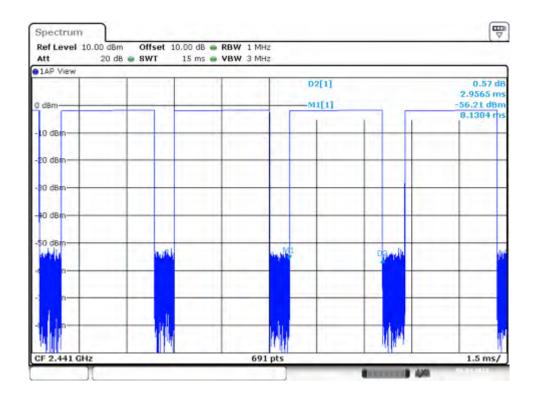


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BDR Mode, DH5

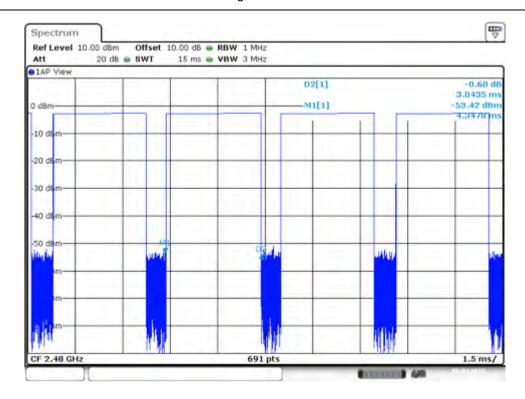




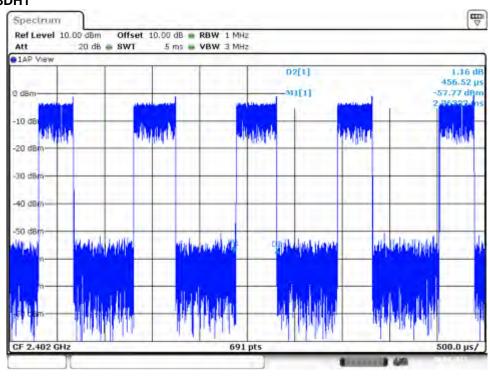


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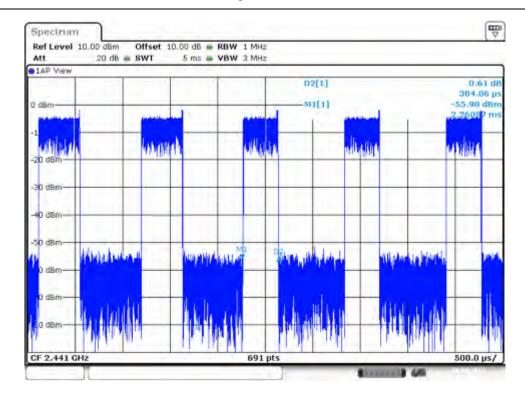
EDR Mode, 3DH1

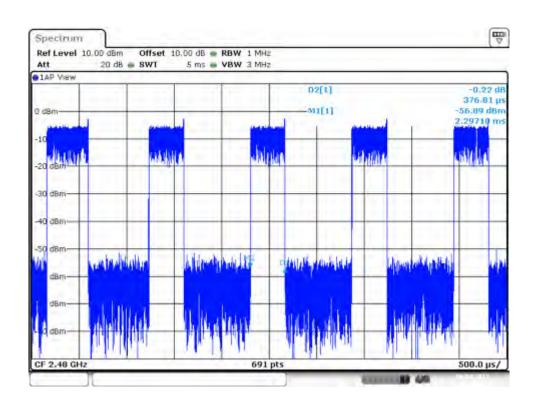




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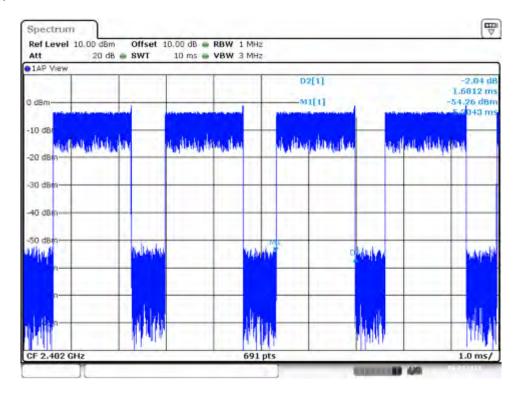


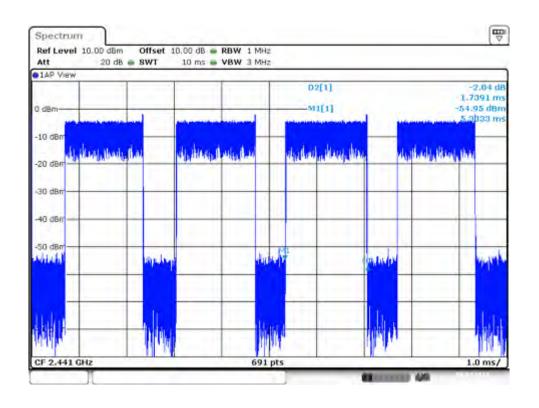


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EDR Mode, 3DH3



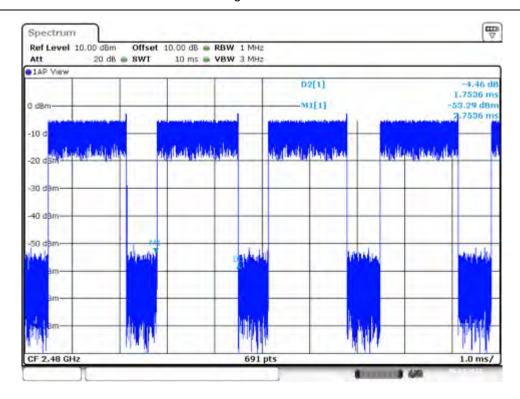




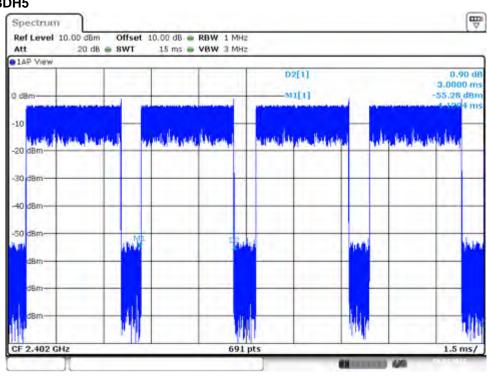
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EDR Mode, 3DH5

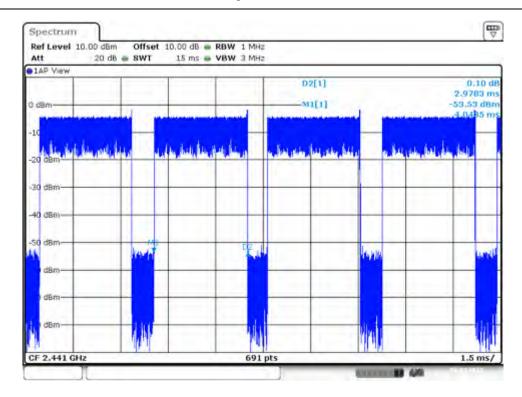


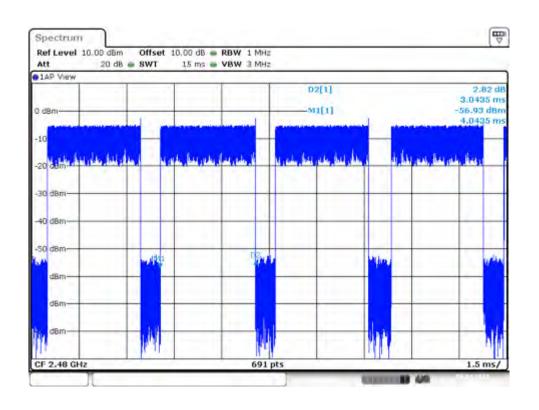


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Appendix B

Test Results of Bluetooth 2.1+ EDR of Radiated Emission and **AC Conducted Emission**

Appendix B	
Appendix B.1: Test Plots of Radiated Spurious Emission	
BDR mode, 30MHz - 1GHz	
BDR mode, 1GHz - 18GHz	
Appendix B.2: Test Plots of Band Edge (Radiated)	
BDR mode, Low Channel	
BDR mode, High Channel	
Appendix B.3: Test Plots of Conducted Emission	18
C Mode	18



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Note: The radiated spurious emission were measured from 9KHz to 26.5GHz, the measurements from 9KHz-30MHz and 18-26.5GHz were greater than 20dB below the limit, so the radiated Spurious Emissions (9kHz – 30MHz and 18-26.5GHz) tests were recorded but not showed in the appendix B.

Appendix B.1: Test Plots of Radiated Spurious Emission

BDR mode, 30MHz - 1GHz Low CH



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Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #2000 Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT:

Platinum Bluetooth Speaker

Mode: TX 2402MHz

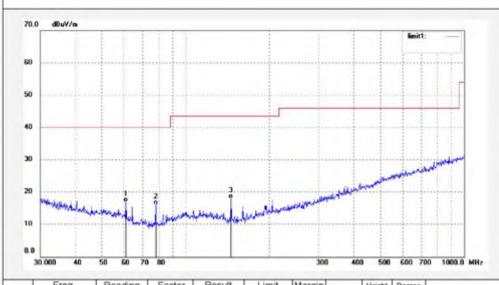
BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m



	No.	Freq. (MHz)	(dBuV/m)	Factor (dB)		Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
	1	60.9176	31.20	-14.24	16.96	40.00	-23.04	QP				
Ì	2	77.8653	32.54	-16.57	15.97	40.00	-24.03	QP				
Ì	3	145.3505	32.97	-15.11	17.86	43.50	-25.64	QP				



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Mid CH



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Job No.: LGW2017 #2002 Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

Mode: TX 2441MHz

Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD

37.46

38.17

256.5210

319.9370

-10.51

-8.45

26.95 29.72 Polarization: Horizontal Power Source: DC 3.7V

Date: 17/04/08/

Time:

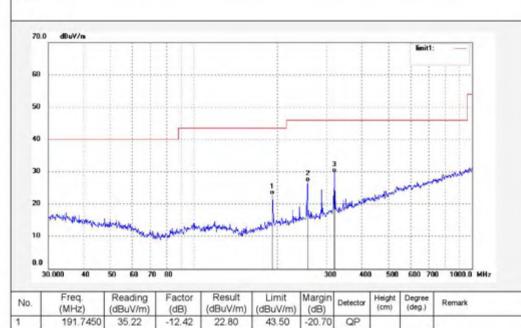
Engineer Signature: WADE

Distance: 3m

Note:

2

3



46.00

46.00

-19.05

-16.28

QP

QP

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Job No.: LGW2017 #2001 Standard: FCC Class B 3M Radiated

Standard. FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Platinum Bluetooth Speaker

Mode: TX 2441MHz

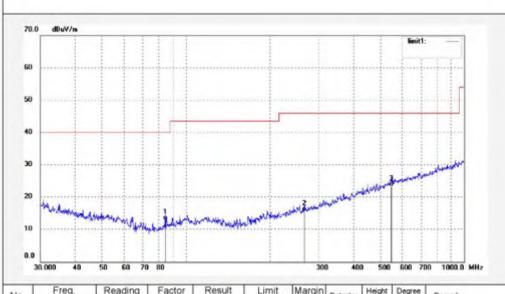
Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Time:

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	84.4054	28.33	-15.47	12.86	40.00	-27.14	QP				
2	266.6089	25.59	-10.11	15.48	46.00	-30.52	QP				
3	549.0193	26.25	-3.11	23.14	46.00	-22.86	QP				





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High CH



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Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #2003

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Platinum Bluetooth Speaker

TX 2480MHz Mode:

(MHz)

191.7450

256.5210

319.9370

1

2

3

(dB)

-12.42

-10.51

-8.45

(dBuV/m)

34.95

37.94

38.80

(dBuV/m)

22.53

27.43

30.35

(dBuV/m)

43.50

46.00

46.00

(dB)

-20.97

-18.57

-15.65

OP

QP

QP

BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Horizontal

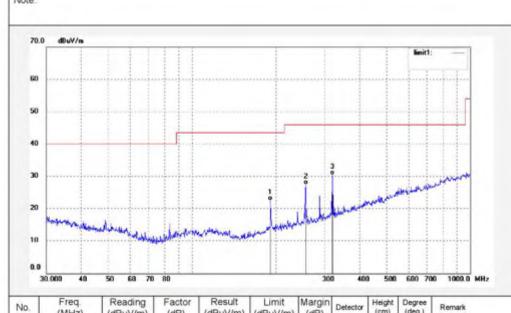
Power Source: DC 3.7V Date: 17/04/08/

Time:

Engineer Signature: WADE

(deg.)

Distance: 3m



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Job No.: LGW2017 #2004

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Platinum Bluetooth Speaker

Mode: TX 2480MHz

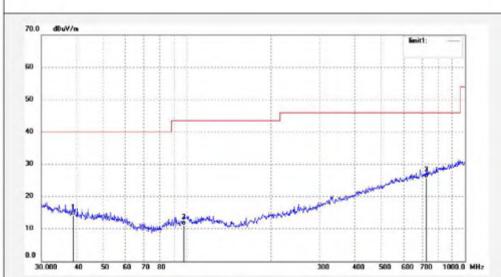
Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Time:

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	39.0245	25.45	-11.32	14.13	40.00	-25.87	QP				
2	97.4560	25.07	-13.91	11.16	43.50	-32.34	QP				
3	726 8052	26.51	-0.67	25.84	46.00	-20.16	OP				



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BDR mode, 1GHz - 18GHz Low CH



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Job No.: LGW2017 #1967

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Platinum Bluetooth Speaker

Mode: TX 2402MHz

Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD Polarization: Horizontal

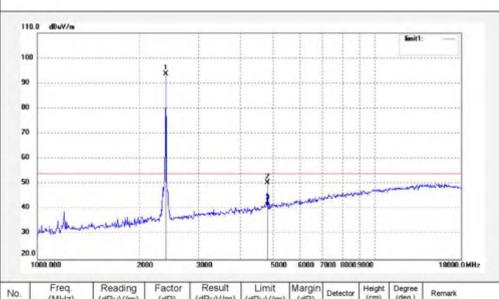
Power Source: DC 3.7V

Date: 17/04/08/

Time:

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2402.000	95.20	-1.61	93.59	1	1	peak				
2	4804.027	45.61	4.90	50.51	74.00	-23.49	peak				
3	4804.027	36.44	4.90	41.34	54.00	-12.66	AVG				



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Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #1968 Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

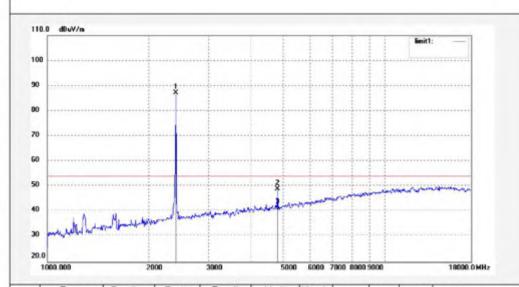
Mode: TX 2402MHz

Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	88.72	-1.61	87.11	1	1	peak			
2	4804.026	43.97	4.90	48.87	74.00	-25.13	peak			
3	4804.026	35.67	4.90	40.57	54.00	-13.43	AVG			



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Mid CH



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F1,Bldg, A, Changyuan New Material Port Keyuan Rd, Fax:+86-0755-265033260 Fax:+86-0755-26503396

Job No.: LGW2017 #1971 Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

Mode: TX 2441MHz

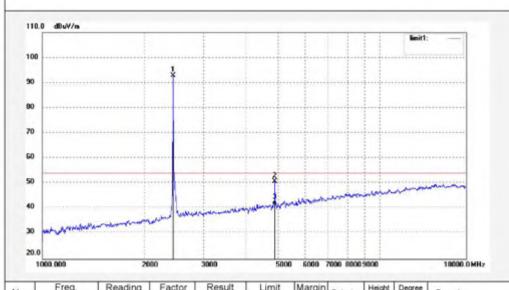
BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Horizontal Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2441.000	94.29	-1.44	92.85	1	1	peak				
2	4882.025	45.04	5.61	50.65	74.00	-23.35	peak				
3	4882.025	35.72	5.61	41.33	54.00	-12.67	AVG				



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Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #1972 Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

Mode: TX 2441MHz

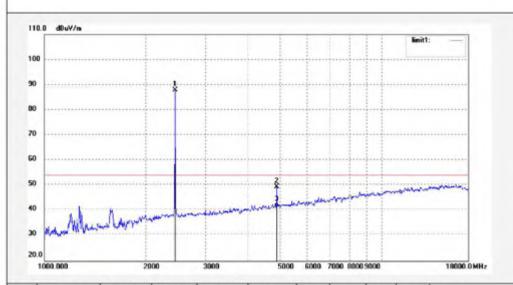
BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	89.23	-1.44	87.79	1	1	peak			
2	4882.026	43.73	5.61	49.34	74.00	-24.66	peak			
3	4882.026	35.64	5.61	41.25	54.00	-12.75	AVG			



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High CH



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P,R,China

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #1974 Standard: FCC Class B 3M Radiated

Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

Mode: TX 2480MHz

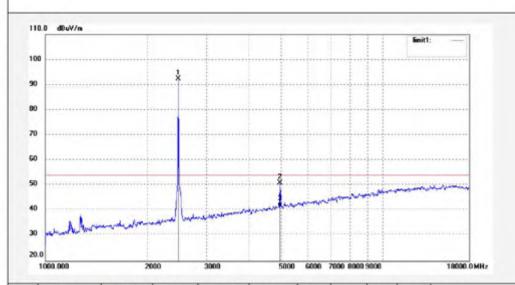
Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD Polarization: Horizontal Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Lingilieer Orginature. VV

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2480.000	93.79	-1.40	92.39	1	1	peak				
2	4960.027	44.73	6.10	50.83	74.00	-23.17	peak				
3	4960.027	35.48	6.10	41.58	54.00	-12.42	AVG				

Products

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Job No.: LGW2017 #1973 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

Mode: TX 2480MHz

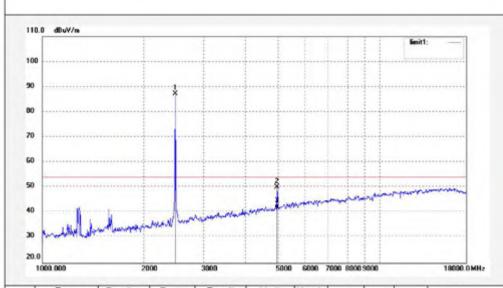
Model: BTSPKA8MSPRM 43261 02 Manufacturer: THUMBS UP(UK)LTD Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Time:

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	88.53	-1.40	87.13	1	1	peak			
2	4960.028	44.02	6.10	50.12	74.00	-23.88	peak			
3	4960.028	35.48	6.10	41.58	54.00	-12.42	AVG			



Appendix B.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel

Mode:



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Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #1970 Standard: FCC (Band Edge) Test item: Radiation Test Temp.(C)/Hum.(%) 23 C / 48 %

TX 2402MHz

EUT: Platinum Bluetooth Speaker

BTSPKA8MSPRM 43261 02 Model:

Manufacturer: THUMBS UP(UK)LTD

Polarization: Horizontal Power Source: DC 3.7V Date: 17/04/08/ Time:

Engineer Signature: WADE

Distance: 3m

Note: dBuV/m limit1: limit2: 60 and the control of th 30 20 10 2310.000 2390.0 MHz Freq Reading Factor Result Limit Margin Degree Height Detector No Remark (MHz) (dBuV/m) (dB) (dBuV/m) (dBuV/m) (dB) (deg.) 74.00 -1.71 49.37 2389.680 51.08 -24.63 peak 2389.680 41.45 -1.71 39.74 54.00 AVG -14.26

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F1, Bldg, A, Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #1969 Standard: FCC (Band Edge) Test item: Radiation Test

2388.880

2

39.28

-1.71

37.57

Temp.(C)/Hum.(%) 23 C / 48 % Platinum Bluetooth Speaker

Mode: TX 2402MHz

BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Vertical Power Source: DC 3.7V

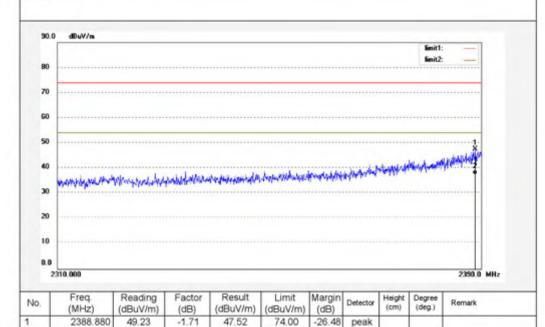
Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m

Note:

EUT:



54.00

-16.43

AVG



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BDR mode, High Channel



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Fax:+86-0755-265033260 Fax:+86-0755-26503396

Job No.: LGW2017 #1975 Standard: FCC (Band Edge) Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 % EUT: Platinum Bluetooth Speaker

Mode: TX 2480MHz

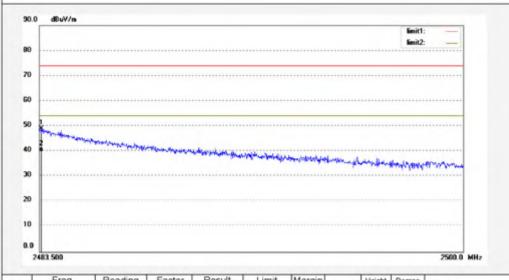
BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Horizontal Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2483.566	50.41	-1.40	49.01	74.00	-24.99	peak				
2	2483.566	41.04	-1.40	39.64	54.00	-14.36	AVG				

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Produkte Products

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: LGW2017 #1976 Standard: FCC (Band Edge) Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Platinum Bluetooth Speaker

Mode: TX 2480MHz

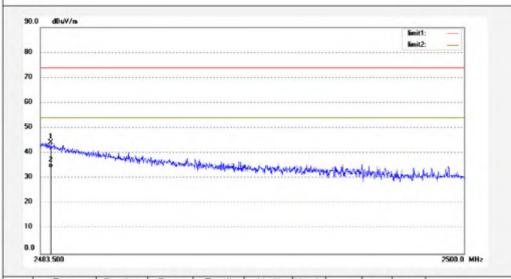
BTSPKA8MSPRM 43261 02 Model: Manufacturer: THUMBS UP(UK)LTD

Polarization: Vertical Power Source: DC 3.7V

Date: 17/04/08/

Engineer Signature: WADE

Distance: 3m



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Appendix B.3: Test Plots of Conducted Emission

C Mode

ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

Platinum Bluetooth Speaker M/N:BTSPKA8MSPRM 43261 02

Manufacturer: THUMBS UP (UK) LTD

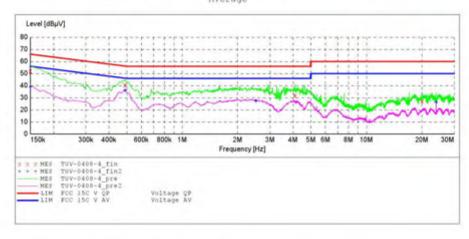
Operating Condition: TX

Test Site: 1#Shielding Room

Operator: WADE

Test Specification: L 120V/60Hz Comment: Mains Port Start of Test: 4/8/2017 /

SCAN TABLE: "V 9K-30MHz fin"
Short Description: __SUB_STD_VTERM2 1.70
Start Stop Step Detector Meas. Start Stop Step Detector Meas, IF Transducer Frequency Frequency Width Time Bandw.
9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008 Average 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008 Average



MEASUREMENT RESULT: "TUV-0408-4 fin"

4/8/2017 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.490000 4.100000	51.90 40.40 31.80	10.5 10.7 11.1	66 56 56	14.1 15.8 24.2	QP QP QP	L1 L1 L1	GND GND GND
20.125000	26.90	11.4	60	33.1	-QP	L1	GND

MEASUREMENT RESULT: "TUV-0408-4 fin2"

4/8/2017 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.490000 2.520000 23.995000	39.00 36.00 27.20 26.20	10.5 10.7 11.0 11.5	56 46 46 50	17.0 10.2 18.8 23.8	AV AV AV	L1 L1 L1	GND GND GND GND

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ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 C

EUT: Platinum Bluetooth Speaker M/N:BTSPKA8MSPRM 43261 02

Manufacturer: THUMBS UP (UK) LTD

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Operating Condition: TX Test Site: 1#Shielding Room

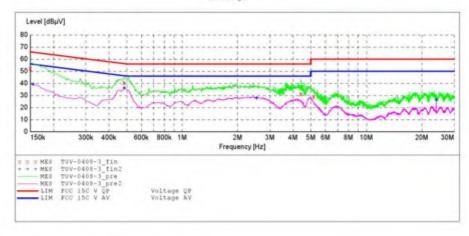
WADE

Test Specification: N 120V/60Hz Comment: Mains Port Start of Test: 4/8/2017 /

SCAN TABLE: "V 9K-30MHz fin"
Short Description:
Start Stop Step Detector Meas.

Detector Meas. IF Time Band Transducer Frequency Frequency Width Time Bandw. 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz NSLK8126 2008 9.0 kHz Average QuasiPeak 1.0 s 9 kHz NSLK8126 2008 150.0 kHz 30.0 MHz 5.0 kHz

Average



MEASUREMENT RESULT: "TUV-0408-3 fin"

4/8/2017 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.485000 4.420000 5.190000	52.20 40.40 31.30 29.00	10.5 10.7 11.1 11.2	66 56 56	13.8 15.9 24.7 31.0	QP QP QP QP	N N N	GND GND GND GND

MEASUREMENT RESULT: "TUV-0408-3_fin2"

4	/8/2017 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.155000 0.485000	39.10 36.00	10.5	56 46	16.6 10.3	AV	N N	GND GND
	2.540000	27.80	11.0	46 50	18.2	AV AV	N N	GND