

FCC Test Report

Equipment : Bluetooth Headset

Brand Name : Bang & Olufsen

Model No. : Beoplay H9

FCC ID : TTUBEOPLAYH9

Standard : 47 CFR FCC Part 15.247

RF Specification : Bluetooth BR/EDR

Frequency : 2400 MHz - 2483.5 MHz

FCC Classification : DSS

Applicant / : Bang & Olufsen A/S

Manufacturer Peter Bangs Vej 15, DK-7600 Struer, Denmark

The product sample received on Oct. 12, 2016 and completely tested on Oct. 20, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Kevin Liang / Assistant Manager

IIac-MRA



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Appendix I. Test Result of AC Power-line Conducted Emissions

Appendix A. Test Result of Emission Bandwidth & Channel Separation

Appendix B.1~B.2. Test Result of Maximum Conducted Output Power

Appendix C.1~C.2. Test Result of Hopping Number & Dwell Time

Appendix D. Test Result of Emissions in Non-restricted Frequency Bands

Appendix E.1~E.2. Test Result of Emissions in Restricted Frequency Bands

Appendix F. Test Photos

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Summary of Test Result

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	Conformance Test Specifications						
Report Clause	Ref. Std. Clause	Description	Limit	Result			
1.1.3	15.203	Antenna Requirement	FCC 15.203	Complied			
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied			
3.2	15.247(a)	20dB Bandwidth	N/A	Complied			
3.2	15.247(a)	Carrier Frequency Separation (ChS)	ChS ≥ BW _{20dB} x2/3.	Complied			
3.3	15.247(a)	Number of Hopping Frequencies (N)	N ≥ 15	Complied			
3.4	15.247(a)	Time of Occupancy (Dwell Time)	0.4 s within 0.4 x N	Complied			
3.5	15.247(b)	RF Output Power	Power [dBm] BR:21 EDR:21	Complied			
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 20 dBc	Complied			
3.7	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied			

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Revision History

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Report No.	Version	Description	Issued Date
FR6O1231AD	Rev. 01	Initial issue of report	Nov. 02, 2016

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1 General Description

1.1 Information

1.1.1 Product Details

The difference between the report no. : N/A		
The Difference	N/A	

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Evaluated Test Items	N/A

1.1.2 RF General Information

Band	Mode	BWch (MHz)	Channel Number	Nss-Min	Nant	
2.4G	BR / EDR	1	0-78 [79]	1	1	

Note:

- 2.4G is the 2.4GHz Band (2.4-2.4835GHz)
- Bluetooth BR uses GFSK (1Mbps).
- Bluetooth EDR uses a combination of π/4-DQPSK(2Mbps) and 8DPSK (3Mbps)
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs.

1.1.3 Antenna Information

	Antenna Category
\boxtimes	Integral antenna (antenna permanently attached)
	☐ Temporary RF connector provided
	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
	External antenna (dedicated antennas)
	☐ Single power level with corresponding antenna(s).
	☐ Multiple power level and corresponding antenna(s).

	Antenna General Information					
No. Ant. Cat. Ant. Type Model No. Gain (dBi)						
Α	Integral	Chip	SDBTPTR3015	1.99		

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1.1.4 Type of EUT

	Identify EUT			
EU	Γ Serial Number	N/A		
HW	Ver. / FW Ver.	V1.0 / V5.0.0		
Mad	Address	00-09-A7-0D-F0-39		
Pre	sentation of Equipment	☐ Production ; ☐ Prototype		
		Type of EUT		
\boxtimes	Stand-alone			
	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:			
	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:			
	Other:			

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1.1.5 Mode Test Duty Cycle

Mode	DC	T(s)
BT-BR	0.760	2.908m
BT-EDR2	0.762	2.915m
BT-EDR3	0.792	2.916m

1.1.6 EUT Operational Condition

Supply Voltage	☐ AC mains	⊠ DC	
Type of DC Source	☐ External AC adapter		⊠ Battery

1.1.7 EUT Operate Information

Items	Description			
Operate Condition	\boxtimes	Point-to-multipoint (P2M)		Point-to-point (P2P)

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- Public Notice DA 00-705

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1.3 Testing Location Information

	Testing Location							
\boxtimes	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.						
	TEL: 886-3-327-3456 FAX: 886-3-327-0973							
Te	Test Condition Test Site No. Test Engineer Test Environment Test Date					Test Date		
Α	C Conductio	n		CO04-HY	Ryan	22°C / 55%	14/10/2016	
F	RF Conducte	d		TH01-HY	Ryan	24.5°C / 66%	14/10/2016	
	Radiated		(3CH09-HY	Thor	25.1°C / 57.9%	20/10/2016	

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Test site registered number [553509] with FCC.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty					
Test Item		Uncertainty			
AC power-line conducted emissions		±2.3 dB			
Emission bandwidth, 6dB bandwidth		±0.6 %			
RF output power, conducted		±0.1 dB			
Power density, conducted		±0.6 dB			
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB			
	0.15 – 30 MHz	±0.4 dB			
	30 – 1000 MHz	±0.6 dB			
	1 – 18 GHz	±0.5 dB			
	18 – 40 GHz	±0.5 dB			
	40 – 200 GHz	N/A			
All emissions, radiated	9 – 150 kHz	±2.5 dB			
	0.15 – 30 MHz	±2.3 dB			
	30 – 1000 MHz	±2.6 dB			
	1 – 18 GHz	±3.6 dB			
	18 – 40 GHz	±3.8 dB			
	40 – 200 GHz	N/A			
Temperature		±0.8 °C			
Humidity		±5 %			
DC and low frequency voltages		±0.9%			
Time		±1.4 %			
Duty Cycle		±0.6 %			

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2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TN,VN	TN	20°C
-	VN	3.7V
Radiated RF	Remark	-
TX	USB	-

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2.2 Test Channel Mode

Test Software Version	InstallBlueSuite_2_6_2_632

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	BT-BR	1	1	1	2402	L	63
2.4G	BT-BR	1	1	1	2440	М	63
2.4G	BT-BR	1	1	1	2480	Н	63
2.4G	BT-EDR2	1	1	1	2402	L	120
2.4G	BT-EDR2	1	1	1	2440	М	120
2.4G	BT-EDR2	1	1	1	2480	Н	120
2.4G	BT-EDR3	1	1	1	2402	L	120
2.4G	BT-EDR3	1	1	1	2440	М	120
2.4G	BT-EDR3	1	1	1	2480	Н	120

Abbreviation Explanation

	too. Tradien Explanation							
Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Test Cond.	Abbreviation
2.4G	BT-BR	1	1	1	2402	L	TN,VN	2.4G;BT-BR;1;1;2402;L;TN,VN

Note

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[◆] Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.).

2.3 The Worst Case Measurement Configuration

TI	The Worst Case Mode for Following Conformance Tests					
Tests Item AC power-line conducted emissions						
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz					
Operating Mode						
1	USB Mode					

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The Worst Case Mode for Following Conformance Tests					
Tests Item	RF Output Power, 20dB Bandwidth, Carrier Frequency Separation (ChS), Number of Hopping Frequencies (N), Time of Occupancy (Dwell Time), Emissions in Non-restricted Frequency Bands				
Test Condition	Conducted measurement at transmit chains				

The Worst Case Mode for Following Conformance Tests					
Tests Item	Emissions in Restricted Fr	equency Bands			
Test Condition	Radiated measurement				
	☐ EUT will be placed in	fixed position.			
User Position	☐ EUT will be placed in	mobile position and operati	ng multiple positions.		
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.				
Operating Mode < 1GHz					
	X Plane	Y Plane	Z Plane		
Orthogonal Planes of EUT					
Worst Planes of EUT	V				

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2.4 Accessories and Support Equipment

Accessories Information						
Dottom:	Brand Name	Bang & Olufsen	Model Name	PLB-103		
Battery	Power Rating	3.7 Vdc, 770 mAh	Туре	Li-ion		
USB Cable	Brand Name	Bang & Olufsen	Model Name	-		
USB Cable	Signal Line	0.25 meter, non-shielded cable, w/o ferrite core				
Audio Cable	Brand Name	Bang & Olufsen	Model Name	-		
	Signal Line	1.25 meter, non-shielded cable, w/o ferrite core				

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Reminder: Regarding to more detail and other information, please refer to user manual.

	Support Equipment - RF Conducted						
No.	No. Equipment Brand Name Model Name						
1	Notebook	DELL	E6400				
2	AC Adapter for Notebook	DELL	HA65NM130				

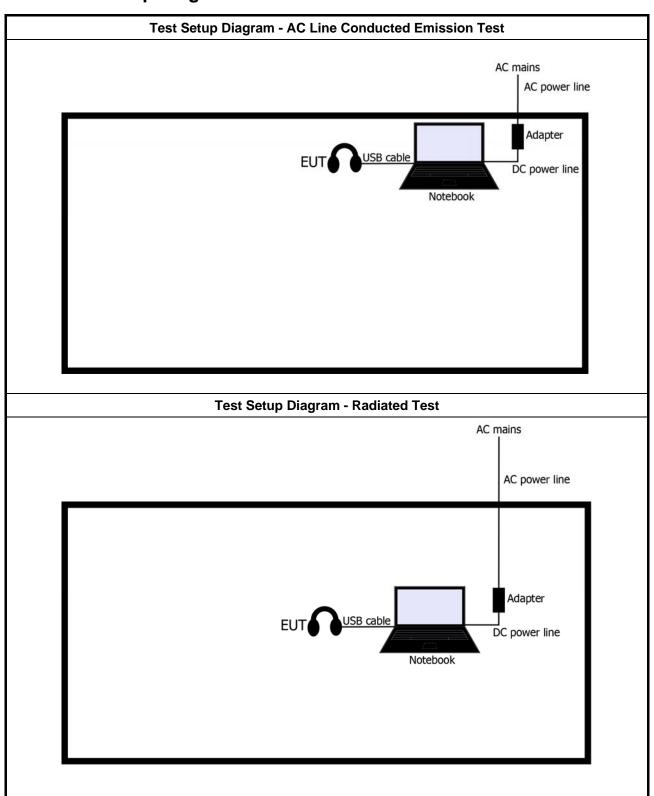
	Support Equipment - AC Conduction and Radiated Emission						
No.	No. Equipment Brand Name Model Name						
1	Notebook	DELL	E5520				
2	2 AC Adapter for Notebook DELL LA65NS2-01						

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Test Setup Diagram 2.5



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3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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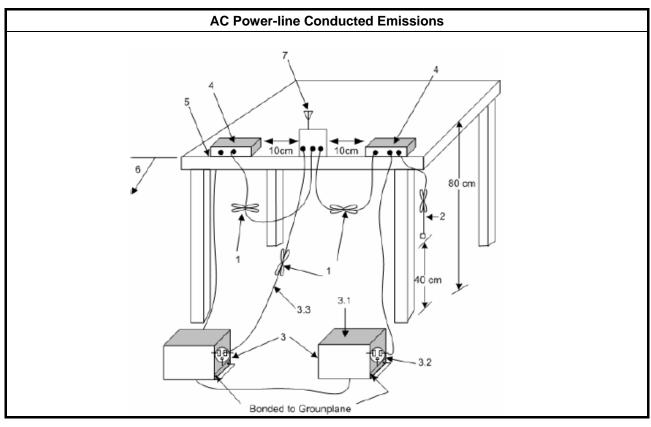
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

	Test Method
- 1	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix I

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3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

	20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems		
\boxtimes	2400-2483.5 MHz Band:		
	N ≥ 75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).		
	\bowtie N ≥ 15 and ChS ≥ MAX (20 dB bandwidth x 2/3, 25 kHz).		
N: 1	N: Number of Hopping Frequencies; ChS: Hopping Channel Separation		

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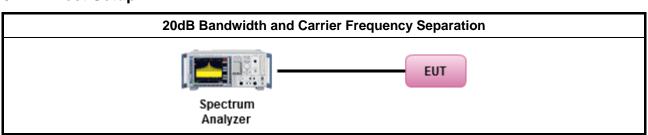
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

	Test Method		
\boxtimes	Refer as ANSI C63.10, clause 6.9.2 for 20 dB bandwidth measurement.		
\boxtimes	Refer as ANSI C63.10, clause 7.8.2 for carrier frequency separation measurement.		
\boxtimes	For conducted measurement.		
	☐ The EUT supports single transmit chain and measurements performed on this transmit chain.		
	☐ The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.		

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth and Carrier Frequency Separation

Refer as Appendix A

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3.3 Number of Hopping Frequencies

3.3.1 Number of Hopping Frequencies Limit

	Number of Hopping Frequencies Limit for Frequency Hopping Systems		
	2400-2483.5 MHz Band:		
	N ≥ 75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).		
	\bowtie N ≥ 15 and ChS ≥ MAX (20 dB bandwidth x 2/3, 25 kHz).		
N : 1	N: Number of Hopping Frequencies; ChS: Hopping Channel Separation		

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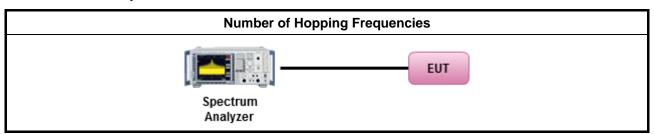
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

	Test Method		
\boxtimes	Refer as ANSI C63.10, clause 7.8.3 for number of hopping frequencies measurement.		
\boxtimes	☑ For conducted measurement.		
	☐ The EUT supports single transmit chain and measurements performed on this transmit chain.		
	☐ The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.		

3.3.4 Test Setup



3.3.5 Test Result of Number of Hopping Frequencies

Refer as Appendix C.1

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3.4 Time of Occupancy (Dwell Time)

3.4.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems

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≥ 2400-2483.5 MHz Band: Dwell time ≤ 0.4 second within 0.4 x N

N: Number of Hopping Frequencies

3.4.2 Measuring Instruments

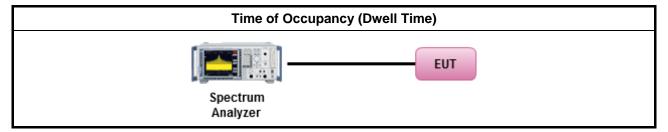
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method

- Refer as DA-00-705 for dwell time measurement.
- Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.
 - The DH1 packet can cover a single time slot. A maximum length packet has duration of 1 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 1/1600 seconds, or 0.625ms. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.
 - The DH3 packet can cover up to 3 time slots. A maximum length packet has duration of 3 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 3/1600 seconds, or 1.875ms. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
 - The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms. DH5 Packet permit maximum 1600/79 / 6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds
- □ For conducted measurement.
 - The EUT supports single transmit chain and measurements performed on this transmit chain.
 - The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.

3.4.4 Test Setup



3.4.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix C.2

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3.5 RF Output Power

3.5.1 RF Output Power Limit

	RF	Output Power Limit for Frequency Hopping Systems			
Max	Maximum Peak Conducted Output Power Limit				
\boxtimes	2400-2483.5 MHz Ba	nd:			
	☐ For Hopping Cha	nnel: N ≥ 75			
	\Box If $G_{TX} \le 6$ decided	Bi, then P _{Out} ≤ 30 dBm (1 W)			
	\Box If $G_{TX} > 6$ dl	Bi, then $P_{Out} = 30 - (G_{TX} - 6) dBm$			
		nnel: N ≥ 15			
	\square If $G_{TX} \le 6$ decided	Bi, then P _{Out} ≤ 21 dBm (0.125 W)			
	\Box If $G_{TX} > 6$ dl	Bi, then $P_{Out} = 21 - (G_{TX} - 6) dBm$			
e.i.r	.r.p. Power Limit:				
\boxtimes	2400-2483.5 MHz Ba	nd:			
	☐ For Hopping Cha	nnel: N ≥ 75 - P _{eirp} ≤ 36 dBm (4 W)			
		nnel: N ≥ 15 - P _{eirp} ≤ 27 dBm (0.5 W)			
P _{eirp} N: N	r _x = the maximum transn irp = e.i.r.p. Power in dBr Number of Hopping Fre n S : Hopping Channel Se	quencies			

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3.5.2 Measuring Instruments

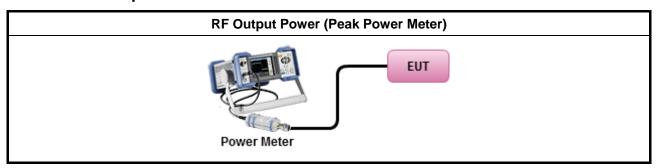
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

		Test Method	
\boxtimes	Maximum Peak Conducted Output Power		
		Refer as DA 00-705, spectrum analyzer for peak power.	
	\boxtimes	Refer as DA 00-705, peak power meter for peak power.	
		Refer as ANSI C63.10, clause 11.9.1.3) for peak power meter.	
		Refer as ANSI C63.10, clause 11.9.1.1) for spectrum analyzer - (RBW ≥ EBW).	
\boxtimes	For	conducted measurement.	
	\boxtimes	The EUT supports single transmit chain and measurements performed on this transmit chain.	
		The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.	

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3.5.4 Test Setup



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3.5.5 Test Result of Maximum Peak Conducted Output Power

Refer as Appendix B.1

3.5.6 Test Result of Maximum Average Conducted Output Power

Refer as Appendix B.2

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3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit		
RF output power procedure	Limit (dB)	
Peak output power procedure	20	
Average output power procedure	30	

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Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

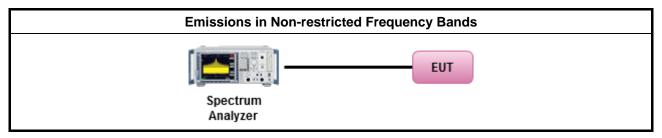
		Test Method – General Information		
\boxtimes	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
	Refer as ANSI C63.10, clause 6.10.3 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.			
\boxtimes	For	the transmitter unwanted emissions shall be measured using following options below:		
	\boxtimes	For unwanted emissions into non-restricted bands. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.		
	\boxtimes	For unwanted emissions into restricted bands.		
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.		
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.		
		Refer as ANSI C63.10, clause 11.11.3 measurement procedure peak limit.		
\boxtimes	For	the transmitter bandedge emissions shall be measured using following options below:		
	\boxtimes	Refer as ANSI C63.10, clause 6.10 for band-edge testing.		
		Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.		
	\boxtimes	Refer as ANSI C63.10, clause 7.8.6 for band-edge testing into non-restricted bands.		
\boxtimes	Ref	er as ANSI C63.10, clause 6.6 for radiated emissions and test distance is 3m.		

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3.6.4 Test Setup



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3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

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3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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3.7.3 Test Procedures

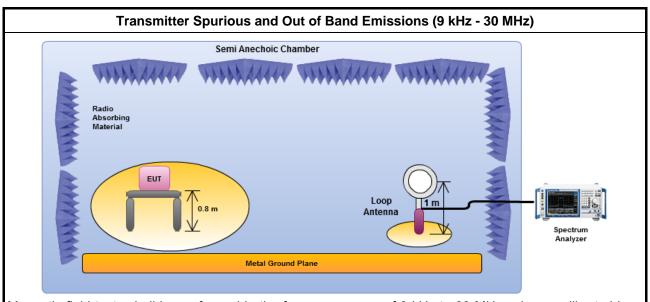
		Test Method – General Information		
	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).			
\boxtimes	The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
	For	the transmitter unwanted emissions shall be measured using following options below:		
		Refer as DA 00-705, for spurious radiated emissions. The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log (dwell time/100 ms)		
		For unwanted emissions into non-restricted bands. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.		
	\boxtimes	For unwanted emissions into restricted bands.		
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.		
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.		
		Refer as ANSI C63.10, clause 11.12.2.4 measurement procedure peak limit.		
		Refer as ANSI C63.10, clause 11.12.2.3 measurement procedure Quasi-Peak limit.		
\boxtimes	For	radiated measurement.		
	\boxtimes	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.		
		Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.		
	\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.		
\boxtimes	The	any unwanted emissions level shall not exceed the fundamental emission level.		
\boxtimes		implitude of spurious emissions that are attenuated by more than 20 dB below the permissible value no need to be reported.		

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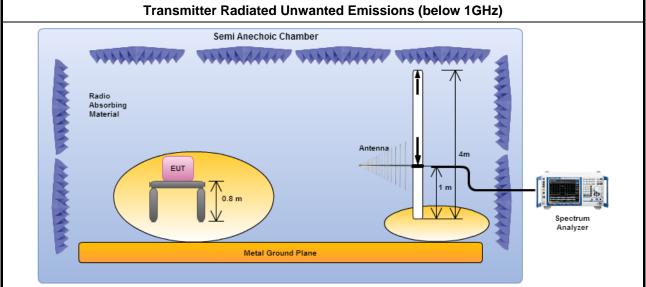


3.7.4 Test Setup



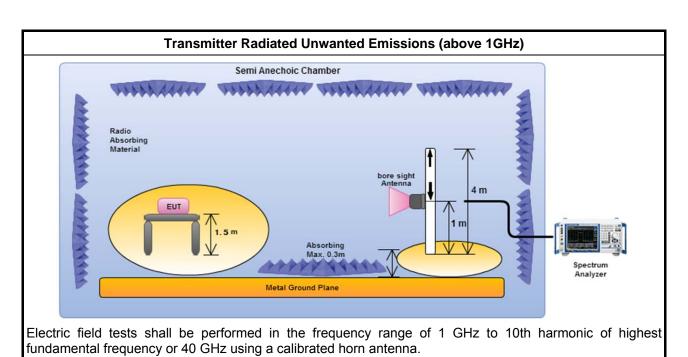
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Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna.



Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

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3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Any spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.

3.7.6 Transmitter Radiated Unwanted Emissions

Refer as Appendix E.1~E.2

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4 Test Equipment and Calibration Data

Instrument for AC Conduction

moti amont io	AO COMAGCION					
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR-3	102051	9 kHz ~ 3.6 GHz	19/04/2016	18/04/2017
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9 kHz ~ 30 MHz	26/01/2016	25/01/2017
LISN (Support Unit)	R&S	ENV216	101295	9 kHz ~ 30 MHz	04/11/2015	03/11/2016
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9 kHz ~ 30 MHz	30/10/2015	29/10/2016
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR

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NCR: Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30 MHz ~ 1 GHz	25/04/2016	24/04/2017
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1 GHz ~ 18 GHz	21/06/2016	20/06/2017
Amplifier	Agilent	8449B	3008A02096	1 GHz ~ 26.5 GHz	11/04/2016	10/04/2017
Amplifier	EMC	EMC9135	980232	9 kHz ~ 1 GHz	29/01/2016	28/01/2017
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10 Hz ~ 44 GHz	04/07/2016	03/07/2017
Bilog Antenna	TESEQ	CBL 6111D	35418	30 MHz ~ 1 GHz	01/10/2016	30/09/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1 GHz ~ 18 GHz	22/04/2016	21/04/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18 GHz ~ 40 GHz	04/01/2016	03/01/2017
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	10/11/2015	09/11/2016

Instrument for Conducted Test

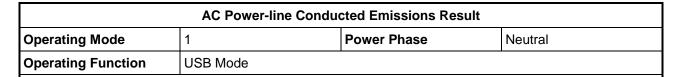
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	9 kHz ~ 40 GHz	12/05/2016	11/05/ 2017
Power Sensor	Anritsu	MA2411B	917017	300 MHz ~ 40 GHz	04/02/2016	03/02/2017
Power Meter	Anritsu	ML2495A	949003	300 MHz ~ 40 GHz	04/02/2016	03/02/2017
Signal Generator	R&S	SMR40	100116	10 MHz ~ 40 GHz	21/07/2016	20/07/2017

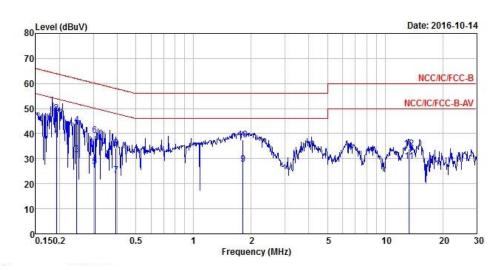
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AC Power-line Conducted Emissions

Appendix I





			0ver	Limit	Read	LISN	Cable	Aux	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
_	MHz	dBuV	dB	dBuV	dBuV	dB	dB	dB	
1	0.19	37.91	-16.02	53.93	27.64	0.11	0.29	9.87	Average
2	0.19	48.24	-15.69	63.93	37.97	0.11	0.29	9.87	QP
3	0.25	31.49	-20.42	51.91	21.27	0.11	0.24	9.87	Average
4	0.25	43.27	-18.64	61.91	33.05	0.11	0.24	9.87	QP
5	0.31	27.01	-23.08	50.09	16.83	0.12	0.18	9.88	Average
6	0.31	39.35	-20.74	60.09	29.17	0.12	0.18	9.88	QP
7	0.39	23.44	-24.55	47.99	13.34	0.12	0.10	9.88	Average
8	0.39	34.20	-23.79	57.99	24.10	0.12	0.10	9.88	QP
9	1.81	27.74	-18.26	46.00	17.43	0.15	0.27	9.89	Average
10	1.81	37.63	-18.37	56.00	27.32	0.15	0.27	9.89	QP
11	13.34	28.93	-21.07	50.00	18.48	0.32	0.20	9.93	Average
12	13.34	33.98	-26.02	60.00	23.53	0.32	0.20	9.93	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

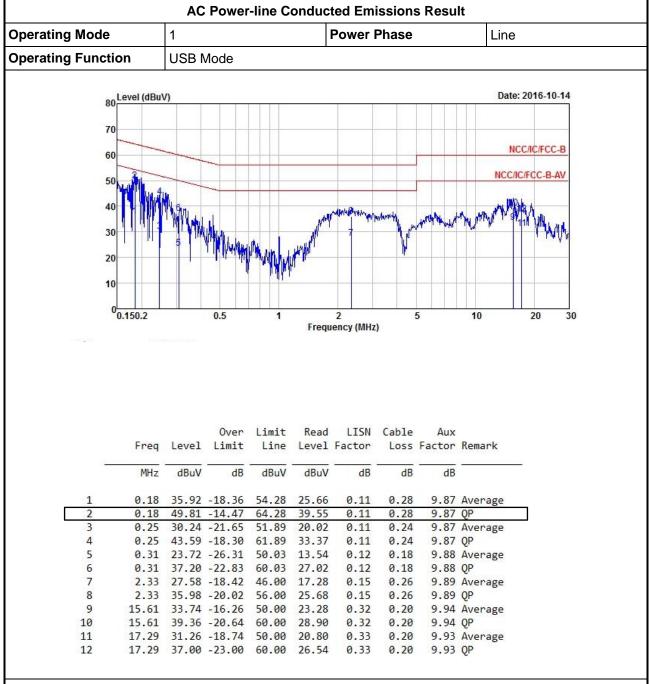
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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EBW-DSSResult Appendix A

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4G;BT-BR;1;1;1	918.75k	883.308k	883kF1D	913.75k	875.812k
2.4G;BT-EDR2;1;1;1	1.334M	1.304M	1M30G1D	1.274M	1.236M
2.4G;BT-EDR3;1;1;1	1.274M	1.284M	1M28G1D	1.258M	1.231M

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EBW-DSSResult Appendix A

Result

Mode	Result	Limit	P1-N dB	P1-OBW
			(Hz)	(Hz)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	Inf	917.5k	883.308k
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	Inf	913.75k	875.812k
2.4G;BT-BR;1;1;2480;H;TN,VN	Pass	Inf	918.75k	875.812k
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	Inf	1.274M	1.236M
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	Inf	1.334M	1.279M
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	Inf	1.329M	1.304M
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	Inf	1.261M	1.231M
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	Inf	1.258M	1.264M
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	Inf	1.274M	1.284M

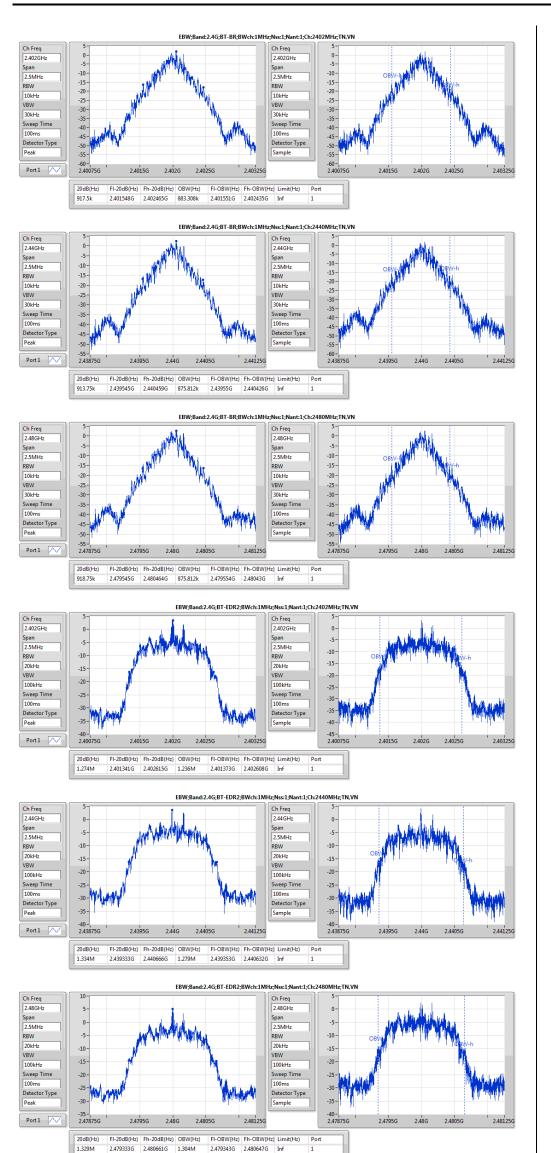
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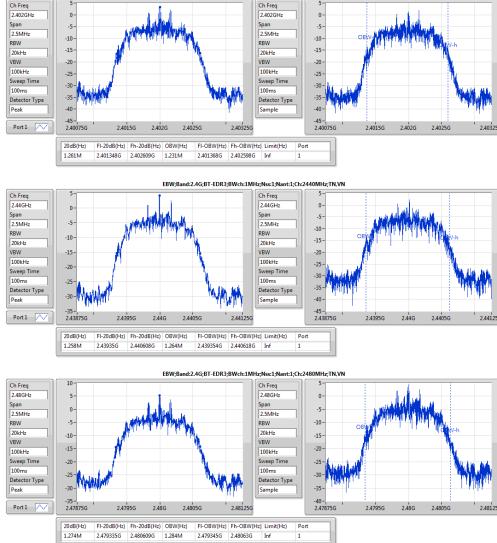
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EBW-DSSResult Appendix A





EBW;Band:2.4G;BT-EDR3;BWch:1MHz;Nss:1;Nant:1;Ch:2402MHz;TN,VN

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Channel Separation-DSS Result

Appendix A

Summary

Mode	Max-Space	Min-Space
	(Hz)	(Hz)
2.4G;BT-BR;1;1;1	1.002M	999k
2.4G;BT-EDR2;1;1;1	1.0005M	999k
2.4G;BT-EDR3;1;1;1	1.002M	1.0005M

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Channel Separation-DSS Result

Appendix A

Result

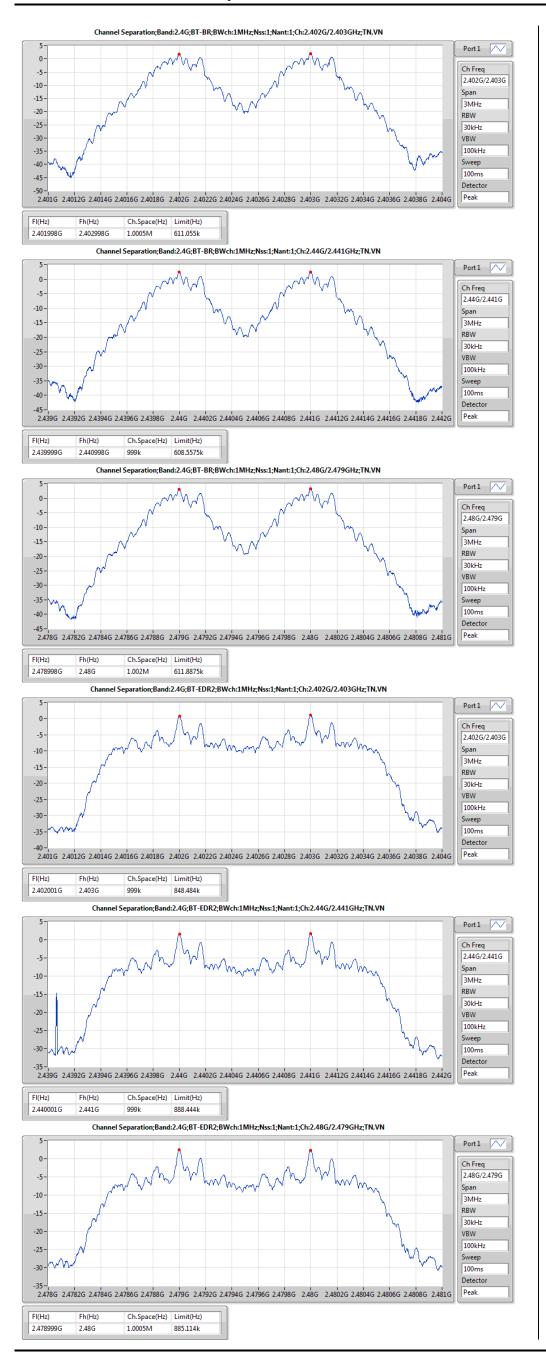
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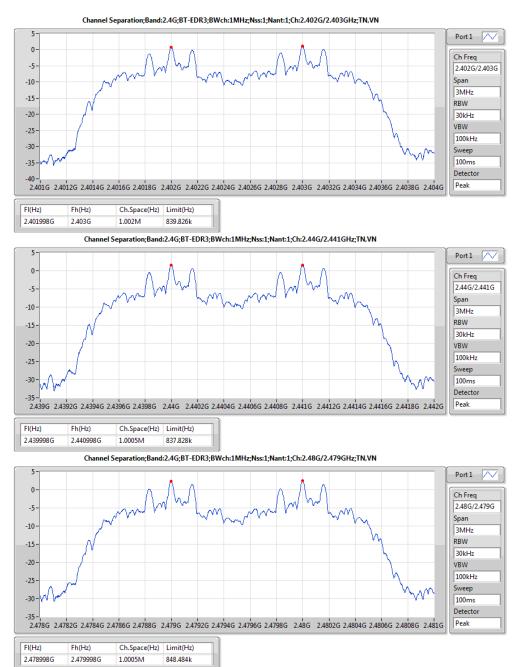
Mode	Result	FI	Fh	Ch.Space	Limit
		(Hz)	(Hz)	(Hz)	(Hz)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.401998G	2.402998G	1.0005M	611.055k
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.439999G	2.440998G	999k	608.5575k
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.478998G	2.48G	1.002M	611.8875k
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.402001G	2.403G	999k	848.484k
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.440001G	2.441G	999k	888.444k
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.478999G	2.48G	1.0005M	885.114k
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.401998G	2.403G	1.002M	839.826k
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.439998G	2.440998G	1.0005M	837.828k
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.478998G	2.479998G	1.0005M	848.484k

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PowerPK-DSS Result
Appendix B.1

Summary

Mode	Sum	Sum	EIRP	EIRP
	(dBm)	(W)	(dBm)	(W)
2.4G;BT-BR;1;1;1	8.74	0.00748	10.73	0.01183
2.4G;BT-EDR2;1;1;1	8.38	0.00689	10.37	0.01089
2.4G;BT-EDR3;1;1;1	8.36	0.00685	10.35	0.01084

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PowerPK-DSS Result
Appendix B.1

Result

Mode	Result	DG	Sum	Sum Lim.	EIRP	EIRP Lim.	P1
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	1.99	7.57	21.00	9.56	27.00	7.57
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	1.99	8.06	21.00	10.05	27.00	8.06
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	1.99	8.74	21.00	10.73	27.00	8.74
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	1.99	7.04	21.00	9.03	27.00	7.04
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	1.99	7.63	21.00	9.62	27.00	7.63
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	1.99	8.38	21.00	10.37	27.00	8.38
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	1.99	7.09	21.00	9.08	27.00	7.09
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	1.99	7.65	21.00	9.64	27.00	7.65
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	1.99	8.36	21.00	10.35	27.00	8.36

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Appendix B.2 PowerAV-DSS Result

Summary

Mode	Sum	Sum	EIRP	EIRP
	(dBm)	(W)	(dBm)	(W)
2.4G;BT-BR;1;1;1	8.61	0.00726	10.60	0.01148
2.4G;BT-EDR2;1;1;1	7.33	0.00541	9.32	0.00855
2.4G;BT-EDR3;1;1;1	7.20	0.00525	9.19	0.0083

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PowerAV-DSS Result Appendix B.2

Result

Mode	Result	DG	Sum	Sum Lim.	EIRP	EIRP Lim.	P1
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	1.99	7.37	21.00	9.36	27.00	7.37
2.4G;BT-BR;1;1;2440;M;TN,VN	Pass	1.99	7.75	21.00	9.74	27.00	7.75
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	1.99	8.61	21.00	10.60	27.00	8.61
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	1.99	5.46	21.00	7.45	27.00	5.46
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	1.99	6.41	21.00	8.40	27.00	6.41
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	1.99	7.33	21.00	9.32	27.00	7.33
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	1.99	5.34	21.00	7.33	27.00	5.34
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	1.99	6.28	21.00	8.27	27.00	6.28
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	1.99	7.20	21.00	9.19	27.00	7.20

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Hopping Channel and Bandedge-DSS Result

Appendix C.1

Summary

Garrinary	
Mode	Max-Hop No
2.4G;BT-BR;1;1;1	79
2.4G;BT-EDR2;1;1;1	79
2.4G;BT-EDR3;1;1;1	79

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Hopping Channel and Bandedge-DSS Result

Appendix C.1

Result

Mode	Result	Hopping No	Limit
2.4G;BT-BR;1;1;2440;M;TN,VN	Pass	79	15
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	79	15
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	79	15

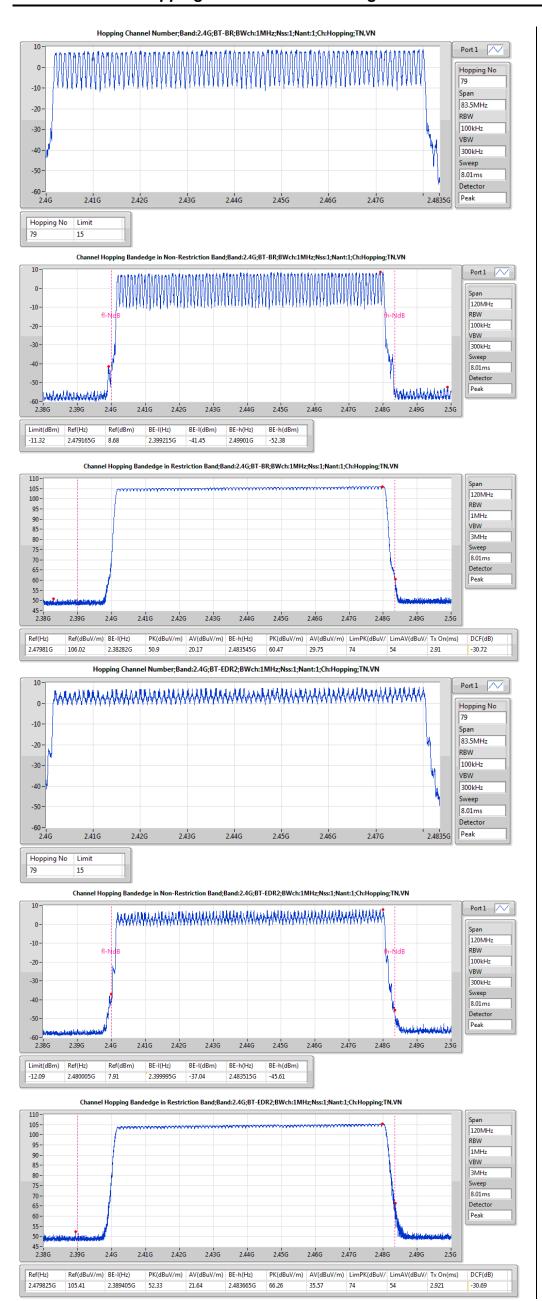
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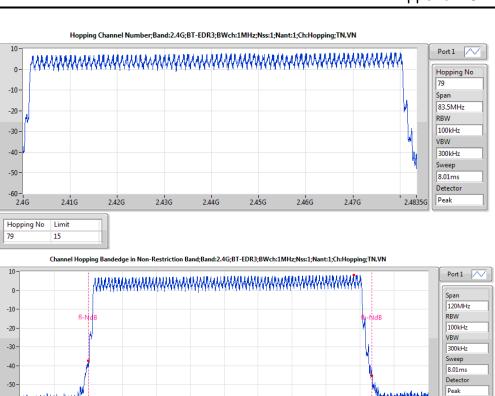
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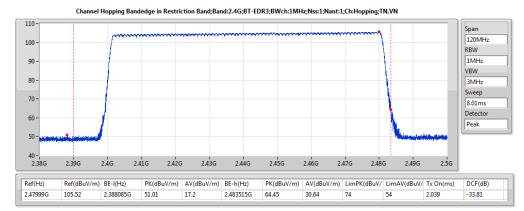
TEL: 886-3-327-3456 FAX: 886-3-327-0973



FAX: 886-3-327-0973







2.39G

2.38G

2.41G

BE-I(Hz)

2.42G

2.43G

BE-I(dBm)

2.44G

BE-h(Hz)

2.45G

BE-h(dBm)

2.47G 2.48G 2.49G

2.46G



Dwell Time-DSS Result Appendix C.2

Summary

Mode	Max-Dwell
	(s)
2.4G;BT-BR;1;1;1	310.206m
2.4G;BT-EDR2;1;1;1	311.3786m
2.4G;BT-EDR3;1;1;1	217.3574m

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Dwell Time-DSS Result Appendix C.2

Result

Mode	Result	Period	Dwell	Limit	Tx On
		(s)	(s)	(s)	(s)
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	31.6	310.206m	400m	2.91m
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	31.6	311.3786m	400m	2.921m
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	31.6	217.3574m	400m	2.039m

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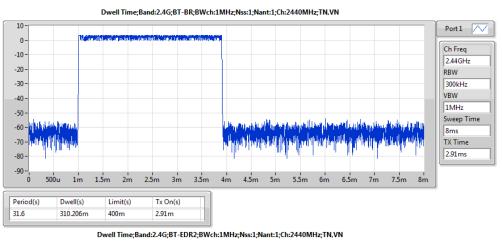
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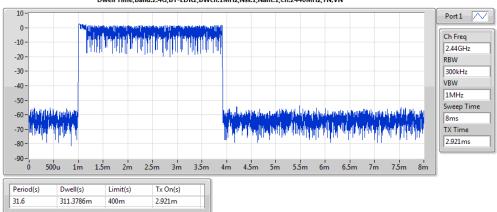
TEL: 886-3-327-3456 FAX: 886-3-327-0973

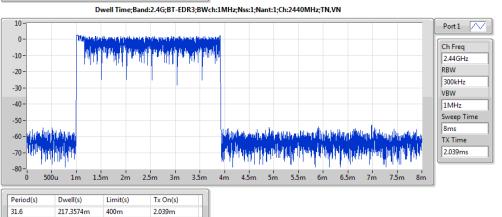


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Dwell Time-DSS Result Appendix C.2







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Summary

FAX: 886-3-327-0973

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.402004G	3.66	-16.34	2.398G	-56.79	2.399964G	-36.30	2.484768G	-56.36	7.205102G	-44.29	1

 SPORTON INTERNATIONAL INC.
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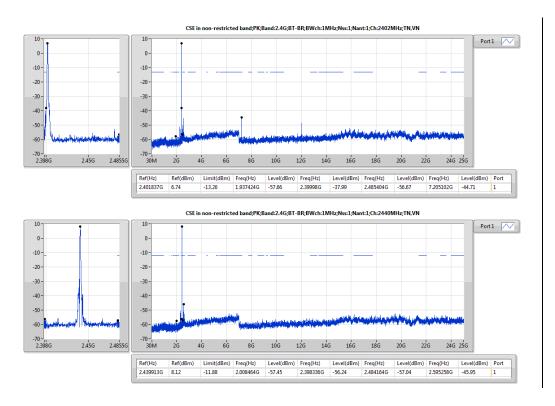
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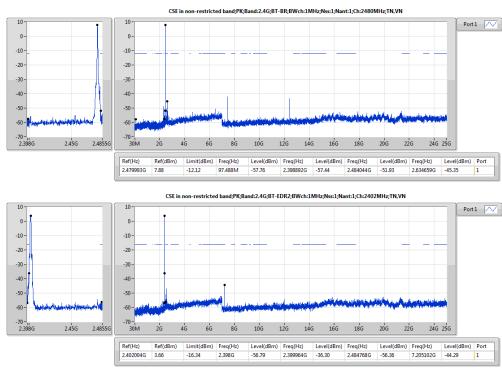
Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.401837G	6.74	-13.26	1.937424G	-57.66	2.39998G	-37.99	2.485404G	-56.67	7.205102G	-44.71	1
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.439913G	8.12	-11.88	2.008464G	-57.45	2.398336G	-56.24	2.484164G	-57.04	2.595258G	-45.95	1
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.479993G	7.88	-12.12	97.488M	-57.76	2.398892G	-57.44	2.484044G	-51.93	2.634659G	-45.35	1
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.402004G	3.66	-16.34	2.398G	-56.79	2.399964G	-36.30	2.484768G	-56.36	7.205102G	-44.29	1
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.44008G	5.12	-14.88	2.110288G	-58.41	2.399784G	-56.85	2.483616G	-57.17	2.595258G	-48.35	1
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.479826G	3.65	-16.35	691.856M	-58.18	2.3984G	-56.89	2.483504G	-44.72	2.60933G	-46.09	1
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.402171G	6.03	-13.97	2.398G	-56.15	2.399512G	-37.36	2.48384G	-56.04	7.205102G	-44.51	1
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.44008G	5.74	-14.26	1.997808G	-57.78	2.398544G	-56.86	2.484568G	-55.37	2.595258G	-49.70	1
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.479993G	5.23	-14.77	777.104M	-58.10	2.398296G	-56.81	2.483524G	-44.92	2.60933G	-46.31	1

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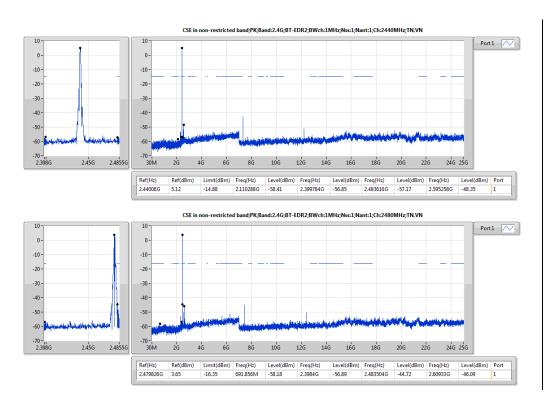
 TEL: 886-3-327-3456
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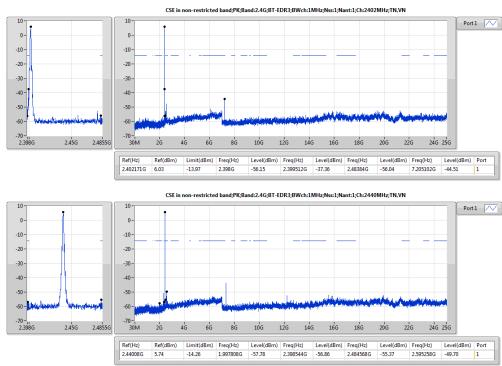




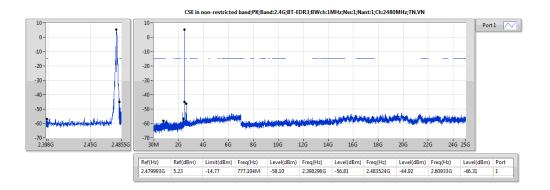












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Project No. : 6O1231



RSE TX below 1GHz Result
Appendix E.1

Summary

FAX: 886-3-327-0973

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	QP	90.14M	41.68	43.50	-1.82	-22.22	3	Н	NaN	NaN	-

 SPORTON INTERNATIONAL INC.
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 TEL: 886-3-327-3456
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Appendix E.1 RSE TX below 1GHz Result

Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	QP	90.14M	41.68	43.50	-1.82	-22.22	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	177.44M	39.14	43.50	-4.36	-21.08	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	239.52M	37.31	46.00	-8.69	-18.57	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	485.9M	35.38	46.00	-10.62	-12.63	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	QP	728.4M	30.87	46.00	-15.13	-9.42	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	939.86M	33.87	46.00	-12.13	-5.93	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	90.14M	39.99	43.50	-3.51	-22.22	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	177.44M	28.90	43.50	-14.60	-21.08	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	299.66M	28.53	46.00	-17.47	-16.64	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	367.56M	30.78	46.00	-15.22	-14.78	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	489.78M	31.78	46.00	-14.22	-12.56	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;USB Mode	Pass	PK	796.3M	35.05	46.00	-10.95	-8.51	3	V	NaN	NaN	-

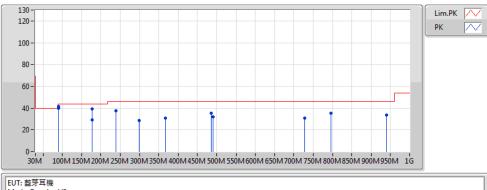
SPORTON INTERNATIONAL INC. Page No. : E2 of E3 TEL: 886-3-327-3456 Project No. : 601231



FAX: 886-3-327-0973

RSE TX below 1GHz Result Appendix E.1

RE TX below 1GHz;Band:2.4G;BT-BR;BWch:1MHz;Nss:1;Nant:1;Ch:2440MHz;USB Mode



EUT: 鳌芽耳機 Mode: Beoplay H9 Form NB	
Mode: Beoplay H9	
Form NB	
Power Set: 63	
EUT=X	
L	

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
QP	90.14M	41.68	43.50	-1.82	-22.22	3	Н	NaN	NaN	-
PK	177.44M	39.14	43.50	-4.36	-21.08	3	Н	NaN	NaN	-
PK	239.52M	37.31	46.00	-8.69	-18.57	3	Н	NaN	NaN	-
PK	485.9M	35.38	46.00	-10.62	-12.63	3	Н	NaN	NaN	-
QP	728.4M	30.87	46.00	-15.13	-9.42	3	Н	NaN	NaN	-
PK	939.86M	33.87	46.00	-12.13	-5.93	3	Н	NaN	NaN	-
PK	90.14M	39.99	43.50	-3.51	-22.22	3	٧	NaN	NaN	-
PK	177.44M	28.90	43.50	-14.60	-21.08	3	٧	NaN	NaN	-
PK	299.66M	28.53	46.00	-17.47	-16.64	3	٧	NaN	NaN	-
PK	367.56M	30.78	46.00	-15.22	-14.78	3	V	NaN	NaN	-
PK	489.78M	31.78	46.00	-14.22	-12.56	3	٧	NaN	NaN	-
PK	796.3M	35.05	46.00	-10.95	-8.51	3	V	NaN	NaN	-

 SPORTON INTERNATIONAL INC.
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Appendix E.2 RSE TX above 1GHz Result

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	4.96G	60.89	74.00	-13.11	2.38	3	V	NaN	NaN	-

SPORTON INTERNATIONAL INC. Page No. : E1 of E8 Project No. : 601231

TEL: 886-3-327-3456 FAX: 886-3-327-0973



RSE TX above 1GHz Result

Appendix E.2

Result

Result												
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
2.4G;BT-BR;1;1;2402;L;TX	Pass	AV	2.324892G	27.99	54.00	-26.01	31.05	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;2402;L;TX	Pass	AV	2.402208G	69.66	Inf	-Inf	31.33	3	V	NaN	NaN	_
2.4G;BT-BR;1;1:1;2402;L;TX	Pass	PK	2.324892G	58.09	74.00	-15.91	31.05	3	V	NaN	NaN	_
									V			-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	2.402208G	99.76	Inf	-Inf	31.33	3		NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	AV	4.804G	29.33	54.00	-24.67	2.06	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	4.804G	59.43	74.00	-14.57	2.06	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	7.206G	51.35	Inf	-Inf	7.99	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	9.608G	54.66	Inf	-Inf	11.47	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	AV	4.804G	30.76	54.00	-23.24	2.06	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	4.804G	60.86	74.00	-13.14	2.06	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	7.206G	51.69	Inf	-Inf	7.99	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L;TX	Pass	PK	9.608G	54.87	Inf	-Inf	11.47	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	AV	2.34952G	27.91	54.00	-26.09	31.14	3	V	NaN	NaN	_
2.4G:BT-BR:1:1:1:2440:M:TX	Pass	AV	2.43958G	73.93	Inf	-Inf	31.45	3	V	NaN	NaN	
, , , , , , , , , , , , , , , , , , , ,												-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	AV	2.49506G	28.43	54.00	-25.57	31.63	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	PK	2.34952G	58.01	74.00	-15.99	31.14	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;2440;M;TX	Pass	PK	2.43958G	104.03	Inf	-Inf	31.45	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	PK	2.49506G	58.53	74.00	-15.47	31.63	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	AV	4.88G	28.12	74.00	-45.88	2.22	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	PK	4.88G	58.22	74.00	-15.78	2.22	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	AV	7.32G	21.67	74.00	-52.33	8.32	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	PK	7.32G	51.77	74.00	-22.23	8.32	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	PK	9.76G	55.10	Inf	-Inf	11.73	3	Н	NaN	NaN	-
2.4G:BT-BR:1:1:2440:M:TX	Pass	AV	4.88G	29.56	54.00	-24.44	2.22	3	V	NaN	NaN	_
2.4G:BT-BR:1:1:1:2440:M:TX	Pass	PK	4.88G	59.66	74.00	-14.34	2.22	3	V	NaN	NaN	_
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	AV	7.32G	22.02	54.00	-31.98	8.32	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M;TX	Pass	PK	7.32G	52.12	74.00	-21.88	8.32	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;2440;M;TX	Pass	PK	9.76G	55.34	Inf	-Inf	11.73	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	AV	2.47968G	69.02	Inf	-Inf	31.58	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	AV	2.4952G	29.10	54.00	-24.90	31.63	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	2.47968G	99.12	Inf	-Inf	31.58	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	2.4952G	59.20	74.00	-14.80	31.63	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	AV	4.96G	30.51	74.00	-43.49	2.38	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	4.96G	60.61	74.00	-13.39	2.38	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	AV	7.44G	20.86	74.00	-53.14	8.66	3	Н	NaN	NaN	-
2.4G;BT-BR;1;1;1:2480;H;TX	Pass	PK	7.44G	50.96	74.00	-23.04	8.66	3	Н	NaN	NaN	_
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	9.92G	55.94	Inf	-23.64 -Inf	12.00	3	Н	NaN	NaN	-
												-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	AV	4.96G	30.79	74.00	-43.21	2.38	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	4.96G	60.89	74.00	-13.11	2.38	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	AV	7.44G	22.17	74.00	-51.83	8.66	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	7.44G	52.27	74.00	-21.73	8.66	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H;TX	Pass	PK	9.92G	55.38	Inf	-Inf	12.00	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L;TX	Pass	AV	2.387724G	27.75	54.00	-26.25	31.28	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L;TX	Pass	AV	2.4018G	70.62	Inf	-Inf	31.33	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L;TX	Pass	PK	2.387724G	57.85	74.00	-16.15	31.28	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L;TX	Pass	PK	2.4018G	100.72	Inf	-Inf	31.33	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M;TX	Pass	AV	2.33546G	28.20	54.00	-25.80	31.09	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M;TX	Pass	AV	2.43996G	73.64	Inf	-Inf	31.45	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M;TX	Pass	AV	2.48784G	28.47	54.00	-25.53	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M;TX	Pass	PK	2.33546G	58.30	74.00	-15.70	31.09	3	V	NaN	NaN	
7,7,7,3,3,7,7												-
2.4G;BT-EDR2;1;1;2440;M;TX	Pass	PK	2.43996G	103.74	Inf	-Inf	31.45	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M;TX	Pass	PK	2.48784G	58.57	74.00	-15.43	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H;TX	Pass	AV	2.47984G	68.84	Inf	-Inf	31.58	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H;TX	Pass	AV	2.48672G	29.07	54.00	-24.93	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H;TX	Pass	PK	2.47984G	98.94	Inf	-Inf	31.58	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H;TX	Pass	PK	2.48672G	59.17	74.00	-14.83	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2402;L;TX	Pass	AV	2.354472G	28.19	54.00	-25.81	31.16	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2402;L;TX	Pass	AV	2.402004G	70.63	Inf	-Inf	31.33	3	V	NaN	NaN	-
2.4G:BT-EDR3:1:1:1:2402:L:TX	Pass	PK	2.354472G	58.29	74.00	-15.71	31.16	3	V	NaN	NaN	-
2.4G:BT-EDR3;1;1;1;2402;L;TX	Pass	PK	2.402004G	100.73	Inf	-13.71 -Inf	31.33	3	V	NaN	NaN	_
2.4G;BT-EDR3;1;1;2402;E;TX		AV	2.402004G 2.3822G	27.85	54.00	-26.15			V		NaN	-
Z.4U,DT-EUK3,T,T,T;Z44U;WI;TX	Pass	AV	2.30220	21.00	J4.UU	-20.13	31.26	3	V	NaN	INDIN	-

SPORTON INTERNATIONAL INC.

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FAX: 886-3-327-0973

RSE TX above 1GHz Result

Appendix E.2

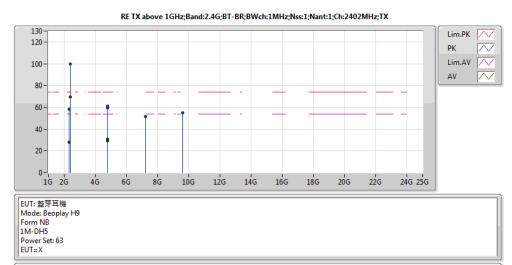
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Pol.	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)	(H/V)	(°)	(m)	
2.4G;BT-EDR3;1;1;1;2440;M;TX	Pass	AV	2.43996G	73.71	Inf	-Inf	31.45	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M;TX	Pass	AV	2.4886G	28.88	54.00	-25.12	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M;TX	Pass	PK	2.3822G	57.95	74.00	-16.05	31.26	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M;TX	Pass	PK	2.43996G	103.81	Inf	-Inf	31.45	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M;TX	Pass	PK	2.4886G	58.98	74.00	-15.02	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H;TX	Pass	AV	2.48G	68.72	Inf	-Inf	31.58	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H;TX	Pass	AV	2.48768G	28.69	54.00	-25.31	31.61	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H;TX	Pass	PK	2.48G	98.82	Inf	-Inf	31.58	3	V	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H;TX	Pass	PK	2.48768G	58.79	74.00	-15.21	31.61	3	V	NaN	NaN	-

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 : E3 of E8

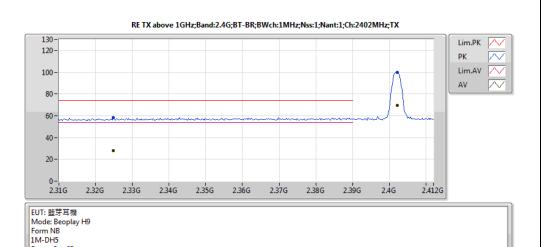
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 : 601231



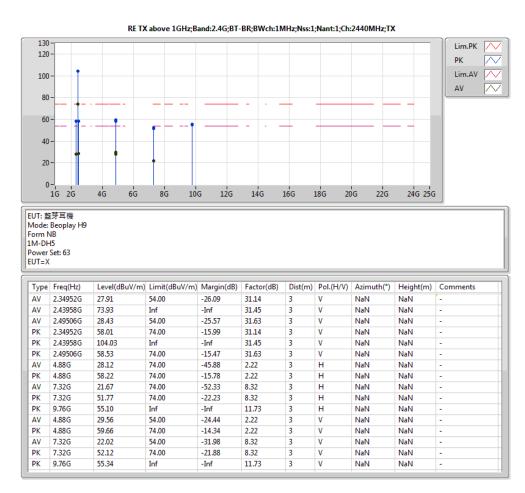
Power Set: 63 EUT=X RSE TX above 1GHz Result Appendix E.2

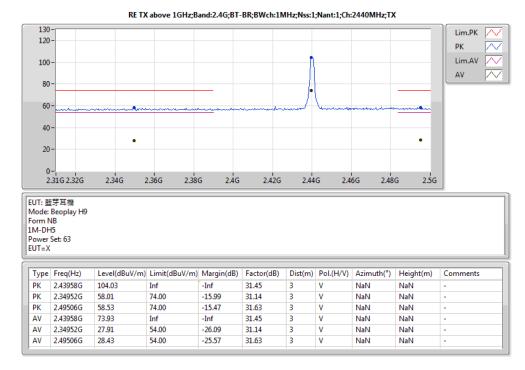


Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
ΑV	2.324892G	27.99	54.00	-26.01	31.05	3	V	NaN	NaN	-
ΑV	2.402208G	69.66	Inf	-Inf	31.33	3	V	NaN	NaN	-
PK	2.324892G	58.09	74.00	-15.91	31.05	3	V	NaN	NaN	-
PK	2.402208G	99.76	Inf	-Inf	31.33	3	V	NaN	NaN	-
ΑV	4.804G	29.33	54.00	-24.67	2.06	3	Н	NaN	NaN	-
PK	4.804G	59.43	74.00	-14.57	2.06	3	Н	NaN	NaN	-
PK	7.206G	51.35	Inf	-Inf	7.99	3	Н	NaN	NaN	-
PK	9.608G	54.66	Inf	-Inf	11.47	3	Н	NaN	NaN	-
ΑV	4.804G	30.76	54.00	-23.24	2.06	3	٧	NaN	NaN	-
PK	4.804G	60.86	74.00	-13.14	2.06	3	٧	NaN	NaN	-
PK	7.206G	51.69	Inf	-Inf	7.99	3	٧	NaN	NaN	-
PK	9.608G	54.87	Inf	-Inf	11.47	3	V	NaN	NaN	-



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	F (11)	1/ 1/ 15 1// 1	1: :// 15 1// 1		E . (1D)	D: 1/)	D 1/1100	A : 11 (0)	11:14	
П	pe Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.402208G	99.76	Inf	-Inf	31.33	3	V	NaN	NaN	-
PK	2.324892G	58.09	74.00	-15.91	31.05	3	V	NaN	NaN	-
AV	2.402208G	69.66	Inf	-Inf	31.33	3	V	NaN	NaN	-
AV	2.324892G	27.99	54.00	-26.01	31.05	3	V	NaN	NaN	-



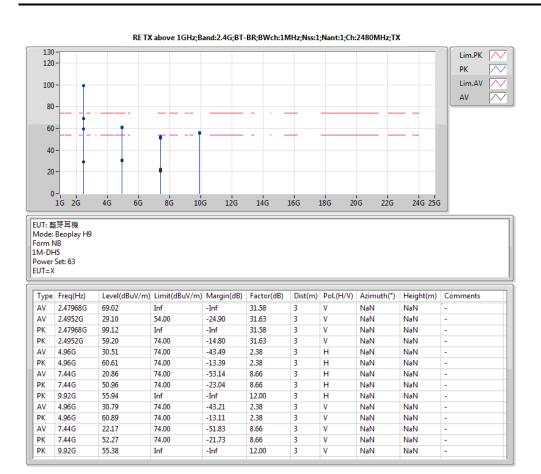


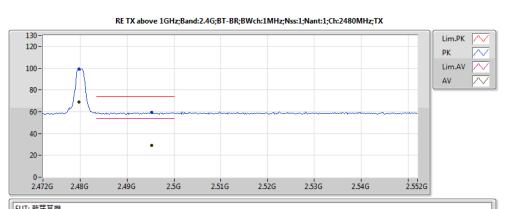
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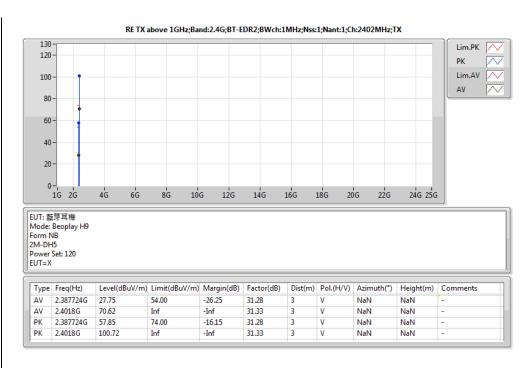
RSE TX above 1GHz Result Appendix E.2

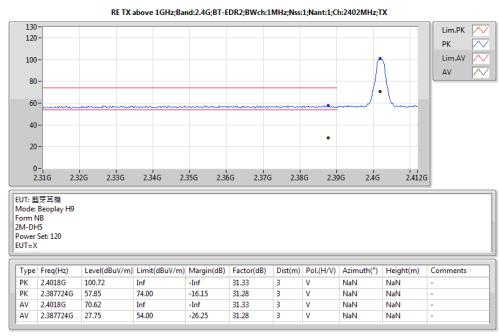




	Mode: Beoplay H9 Form NB 1M-DH5 Power Set: 63 EUT=X
ĺ	Time Fore(Ida) Level(IDA)((m) Limit(IDA)((m) Mannin(IDA) Forested(IDA) Dist(Ida) Dist(Ida) Asimuth(PA) Maint(Ida) Comments

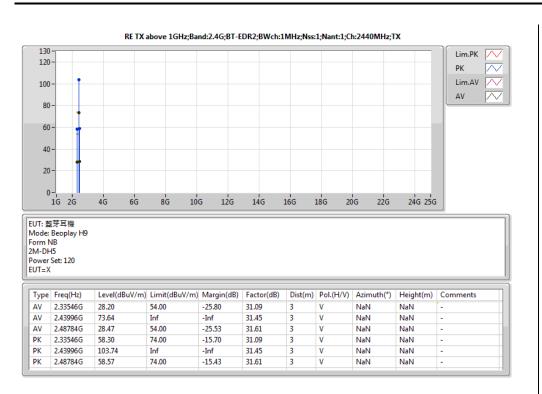
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.47968G	99.12	Inf	-Inf	31.58	3	٧	NaN	NaN	-
PK	2.4952G	59.20	74.00	-14.80	31.63	3	٧	NaN	NaN	-
ΑV	2.47968G	69.02	Inf	-Inf	31.58	3	V	NaN	NaN	-
ΑV	2.4952G	29.10	54.00	-24.90	31.63	3	٧	NaN	NaN	-

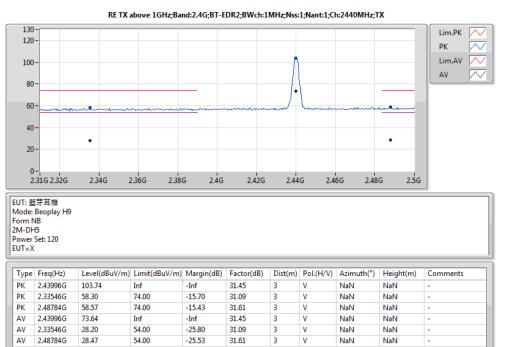


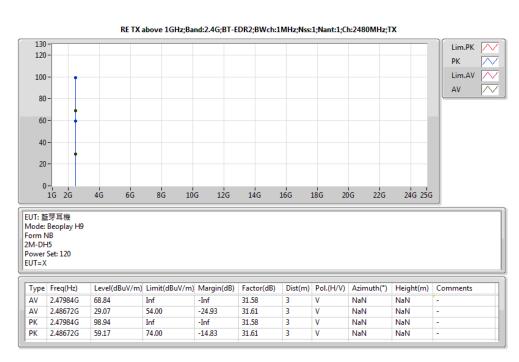


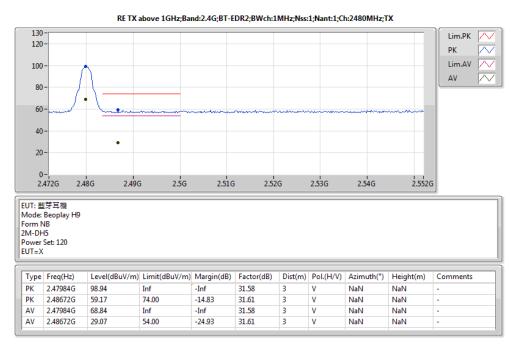


RSE TX above 1GHz Result Appendix E.2











PK PK 2.354472G 58.29

2.402004G 100.73

74.00

Inf

-15.71

-Inf

31.16

31.33

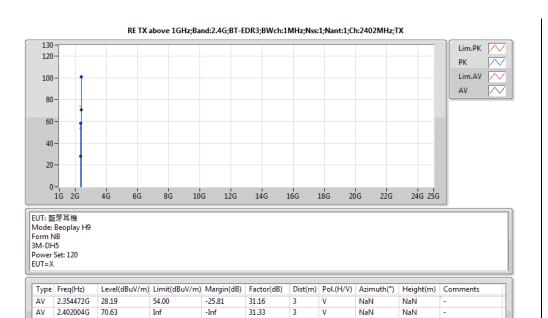
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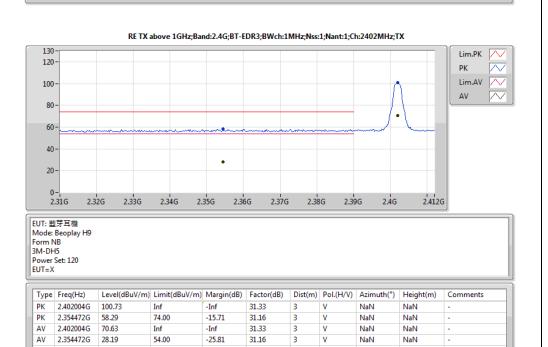
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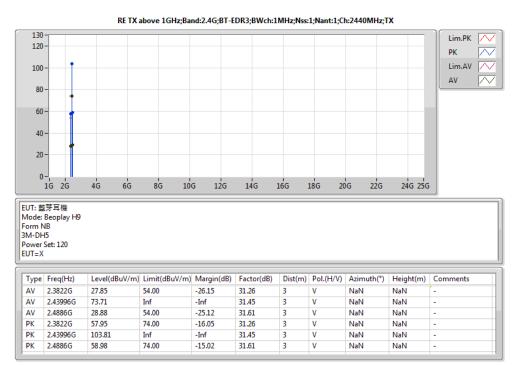
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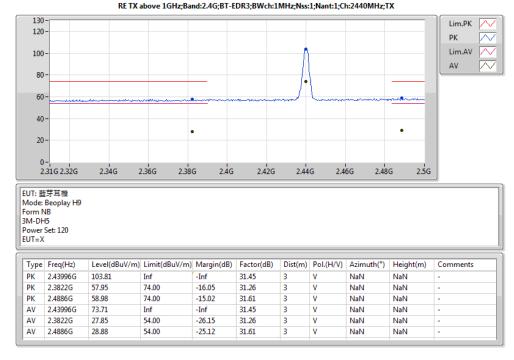
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RSE TX above 1GHz Result Appendix E.2









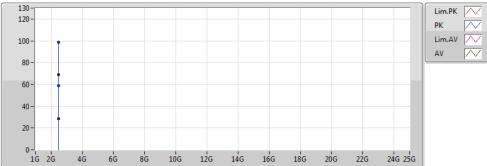
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RSE TX above 1GHz Result Appendix E.2

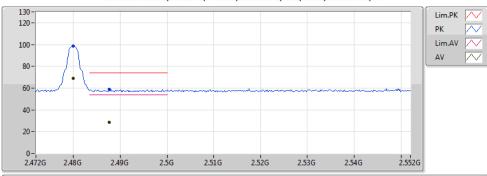
RE TX above 1GHz;Band:2.4G;BT-EDR3;BWch:1MHz;Nss:1;Nant:1;Ch:2480MHz;TX





Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
ΑV	2.48G	68.72	Inf	-Inf	31.58	3	V	NaN	NaN	-
ΑV	2.48768G	28.69	54.00	-25.31	31.61	3	V	NaN	NaN	-
PK	2.48G	98.82	Inf	-Inf	31.58	3	V	NaN	NaN	-
PK	2.48768G	58.79	74.00	-15.21	31.61	3	V	NaN	NaN	-

RE TX above 1GHz;Band:2.4G;BT-EDR3;BWch:1MHz;Nss:1;Nant:1;Ch:2480MHz;TX



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EUT: 藍芽耳機	
Mode: Beoplay H9 Form NB	
Form NB	
3M-DH5 Power Set: 120	
Power Set: 120	
EUT=X	
P	

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.48G	98.82	Inf	-Inf	31.58	3	V	NaN	NaN	-
PK	2.48768G	58.79	74.00	-15.21	31.61	3	V	NaN	NaN	-
ΑV	2.48G	68.72	Inf	-Inf	31.58	3	V	NaN	NaN	-
ΑV	2.48768G	28.69	54.00	-25.31	31.61	3	V	NaN	NaN	-

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 Project No.
 : 601231

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