
FCC Test Report

Report No.: AGC06620160401FE03

FCC ID : 2AIEBTTS
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Bluetooth intercom
BRAND NAME : EJEAS
MODEL NAME : TTS, TTS-4, TTS-8, TTS-10, TTS-15, TTS-20
CLIENT : Shenzhen Ejeas Technology Co., Ltd.
DATE OF ISSUE : May 16, 2016
STANDARD(S) : FCC Part 15 Rules
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 16, 2016	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION.....	6
2.2. TABLE OF CARRIER FREQUENCIES.....	6
2.3. RECEIVER INPUT BANDWIDTH	7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	7
2.6. RELATED SUBMITTAL(S) / GRANT (S).....	8
2.7. TEST METHODOLOGY.....	8
2.8. SPECIAL ACCESSORIES	8
2.9. EQUIPMENT MODIFICATIONS	8
3. MEASUREMENT UNCERTAINTY.....	9
4. DESCRIPTION OF TEST MODES.....	9
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF EUT SYSTEM	10
5.2. EQUIPMENT USED IN EUT SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	11
7. PEAK OUTPUT POWER	14
7.1. MEASUREMENT PROCEDURE	14
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	14
7.3. LIMITS AND MEASUREMENT RESULT	15
8. 20DB BANDWIDTH.....	21
8.1. MEASUREMENT PROCEDURE	21
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	21
8.3. LIMITS AND MEASUREMENT RESULTS.....	21
9. CONDUCTED SPURIOUS EMISSION	28
9.1. MEASUREMENT PROCEDURE	28
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	28
9.3. MEASUREMENT EQUIPMENT USED.....	28
9.4. LIMITS AND MEASUREMENT RESULT	28
10. RADIATED EMISSION	32
10.1. MEASUREMENT PROCEDURE	32
10.2. TEST SETUP	34
10.3. TEST RESULT (Worst Modulation: GFSK).....	36
11. BAND EDGE EMISSION	48

11.1. MEASUREMENT PROCEDURE	48
11.2. TEST SET-UP	48
11.3. TEST RESULT (Worst Modulation: GFSK)	49
12. NUMBER OF HOPPING FREQUENCY.....	53
12.1. MEASUREMENT PROCEDURE	53
12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION).....	53
12.3. MEASUREMENT EQUIPMENT USED	53
12.4. LIMITS AND MEASUREMENT RESULT	53
13. TIME OF OCCUPANCY (DWELL TIME)	54
13.1. MEASUREMENT PROCEDURE	54
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION).....	54
13.3. MEASUREMENT EQUIPMENT USED	54
13.4. LIMITS AND MEASUREMENT RESULT	54
14. FREQUENCY SEPARATION	57
14.1. MEASUREMENT PROCEDURE	57
14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION).....	57
14.3. MEASUREMENT EQUIPMENT USED	57
14.4. LIMITS AND MEASUREMENT RESULT	57
15. FCC LINE CONDUCTED EMISSION TEST	59
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST	59
15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	59
15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	60
15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	60
15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	61
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	63
APPENDIX B: PHOTOGRAPHS OF EUT	65

1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Ejeas Technology Co., Ltd.
Address	20A, Main Bldg., (Zhida Mansion) No. 8-11, Lane 2, Zone 9, Bantian Guangyayuan, Longgang Dist., Shenzhen, Guangdong, China
Manufacturer	Shenzhen Ejeas Technology Co., Ltd.
Address	20A, Main Bldg., (Zhida Mansion) No. 8-11, Lane 2, Zone 9, Bantian Guangyayuan, Longgang Dist., Shenzhen, Guangdong, China
Product Designation	Bluetooth intercom
Brand Name	EJEAS
Test Model	TTS
Series Model	TTS-4, TTS-8, TTS-10, TTS-15, TTS-20
Different Description	All the same except for the model name
Date of test	Apr.11 2016 to Apr.13 2016
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF (2013-03-01)

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.247.



Tested By _____
Time Huang(Huang Nanhui) May 16, 2016



Reviewed By _____
Forrest Lei(Lei Yonggang) May 16, 2016



Approved By _____
Solger Zhang(Zhang Hongyi)
Authorized Officer May 16, 2016

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is “Bluetooth intercom” designed as a “Communication Device”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	8.45dBm(Max)
Bluetooth Version	V4.0(BR+EDR)
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of channels	79
Hardware Version	MODI-T8S_V2
Software Version	N/A
Antenna Designation	Wire Antenna
Antenna Gain	0dBi
Power Supply	DC3.7V by Battery
Note: The USB port only used for charging and can't be used to transfer data with PC.	

2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2402~2480MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz. In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection (e.g. single or multislotted packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be sent on the same frequency, it is sent on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCE IN DATA MODE

Example of a 79 hopping sequence in data mode:

40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67
56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59
72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75
09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06
01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.
2. Internal master clock

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24 MSB's of the 48 BD_ADDRESS.

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offsets are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5 µs. The clock has a cycle of about one day (23h30). In most cases it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With these input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmissions is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5 µs). The hopping sequence will always differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AIEBTTS** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB

Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link with charging
11	BT Link

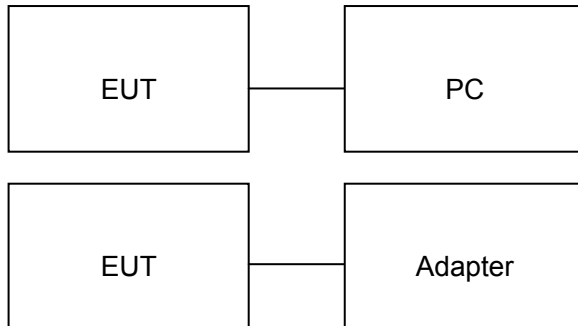
Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3.The EUT used fully-charged battery when tested.

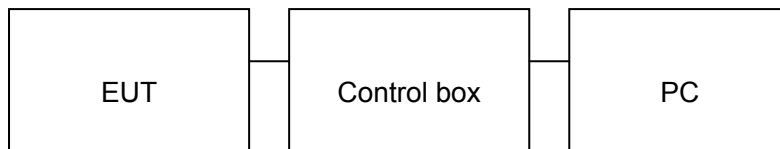
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth intercom	EJEAS	TTS	EUT
2	PC	Sony	E1412AYCW	A.E
3	Control box	CSR	CSR8635A04U412BG	A.E
4	Adapter	ETPCA	ETPCA-050100U3W	A.E

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.10:2013.

ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2015	July 10, 2016
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2015	July 6, 2016
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2015	July 7, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	- Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 6,2015	June 5,2016

7. PEAK OUTPUT POWER

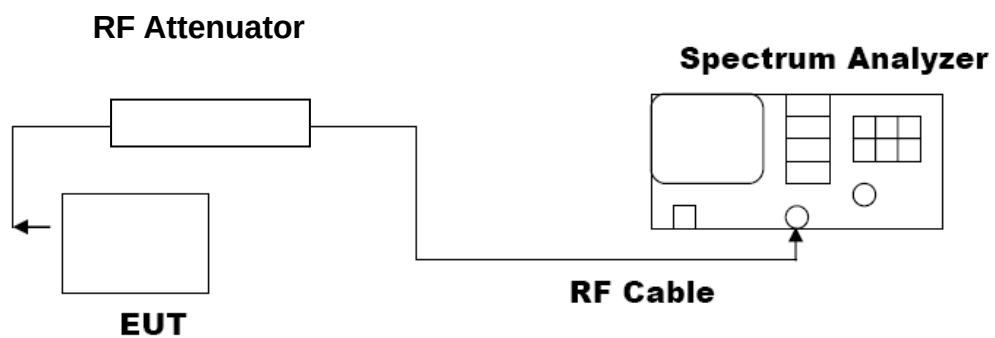
7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. $RBW > \text{the 20 dB bandwidth of the emission being measured}$, $VBW \geq RBW$.
4. Record the maximum power from the Spectrum Analyzer.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

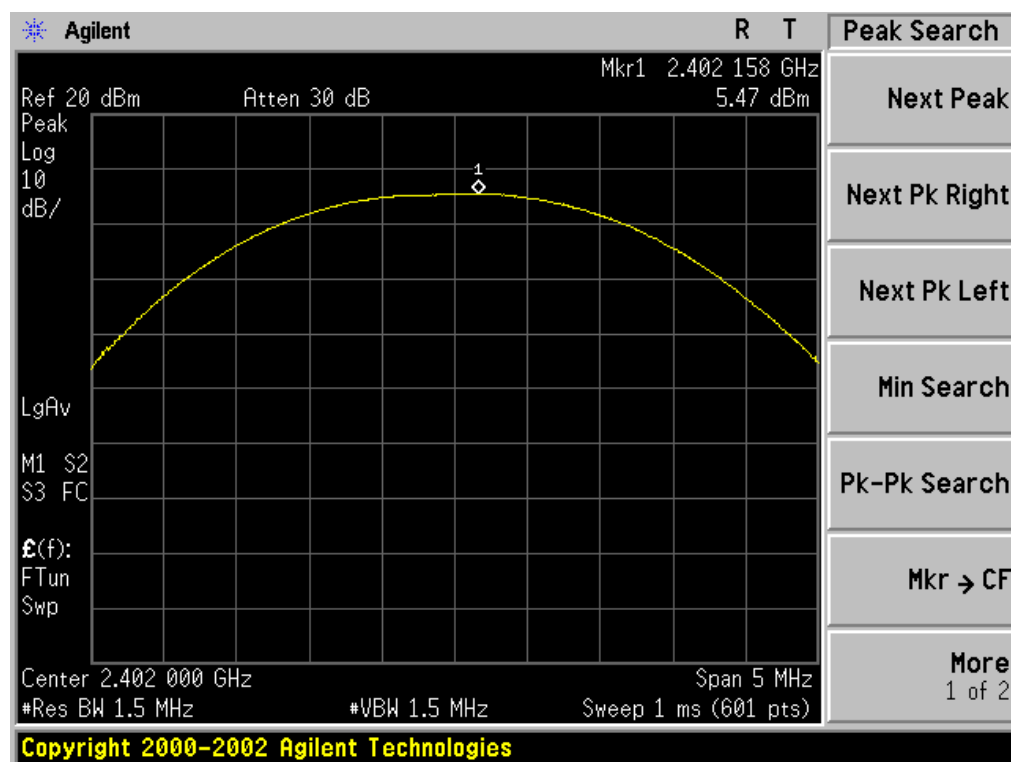
PEAK POWER TEST SETUP



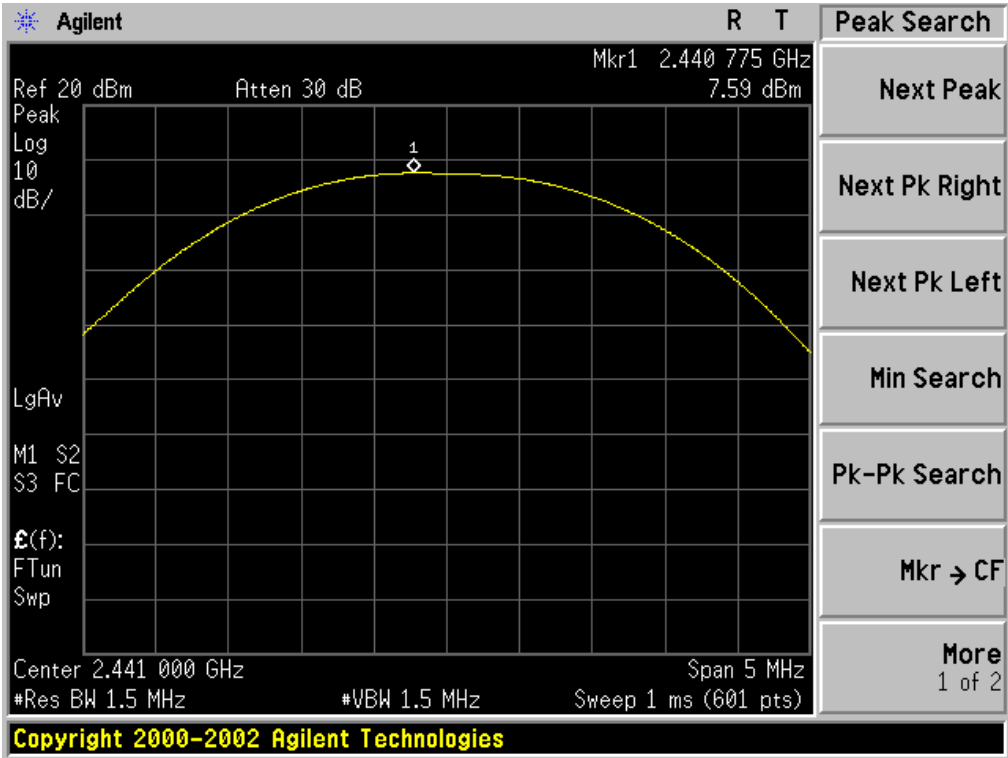
7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	5.47	21	Pass
2.441	7.59	21	Pass
2.480	8.45	21	Pass

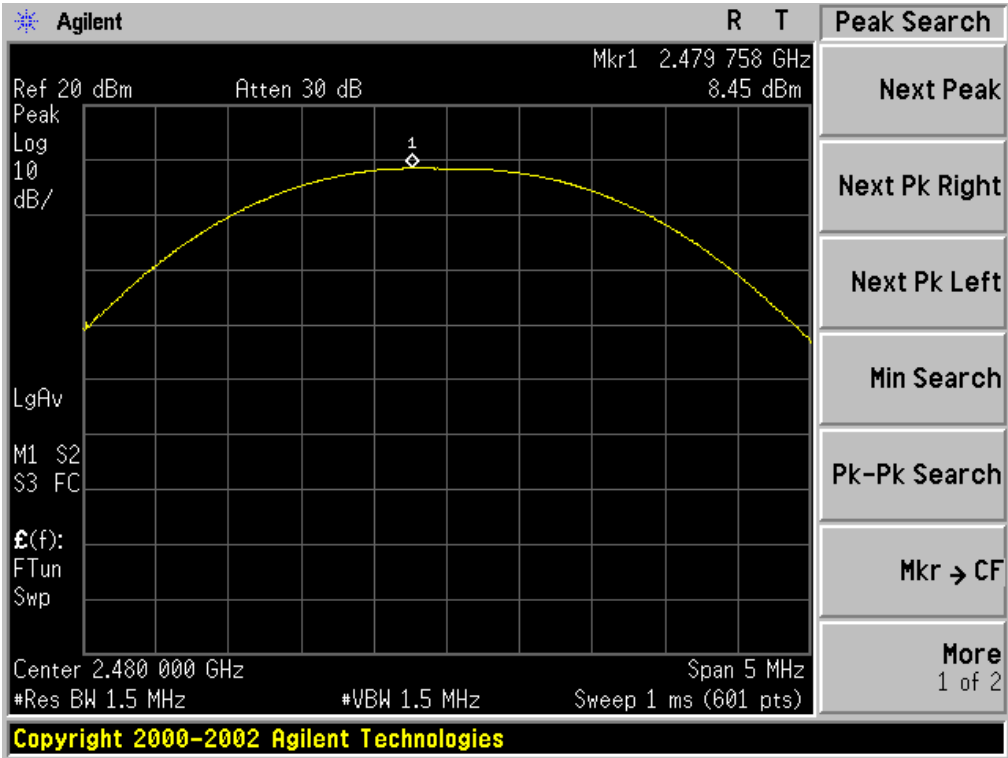
CH0



CH39

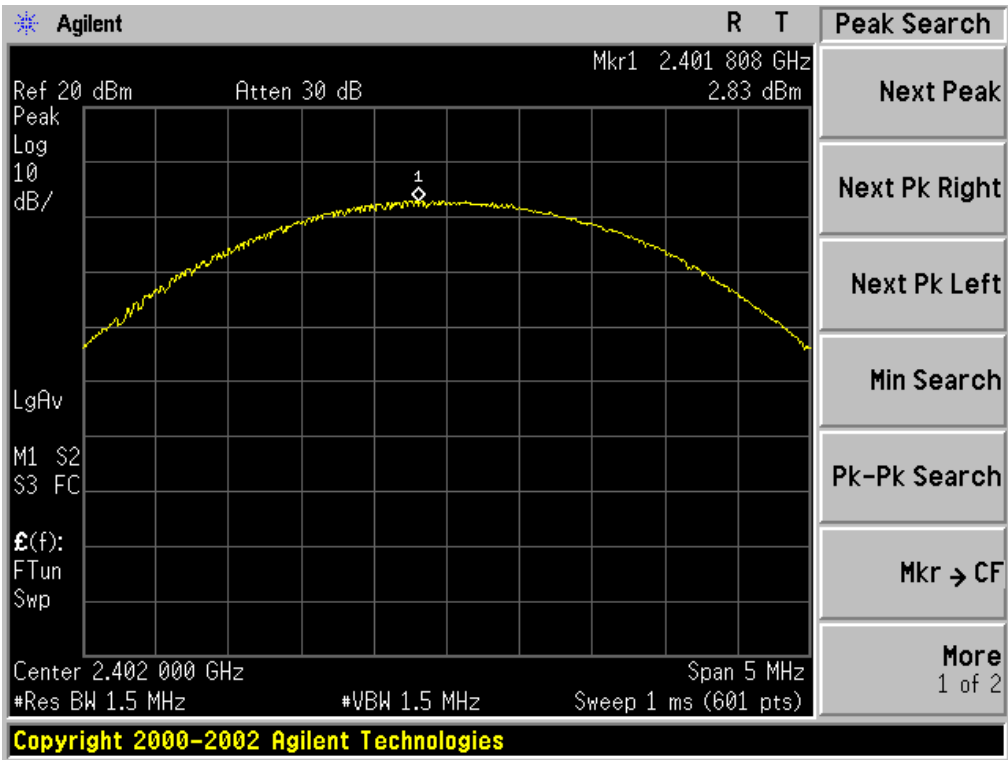


CH78

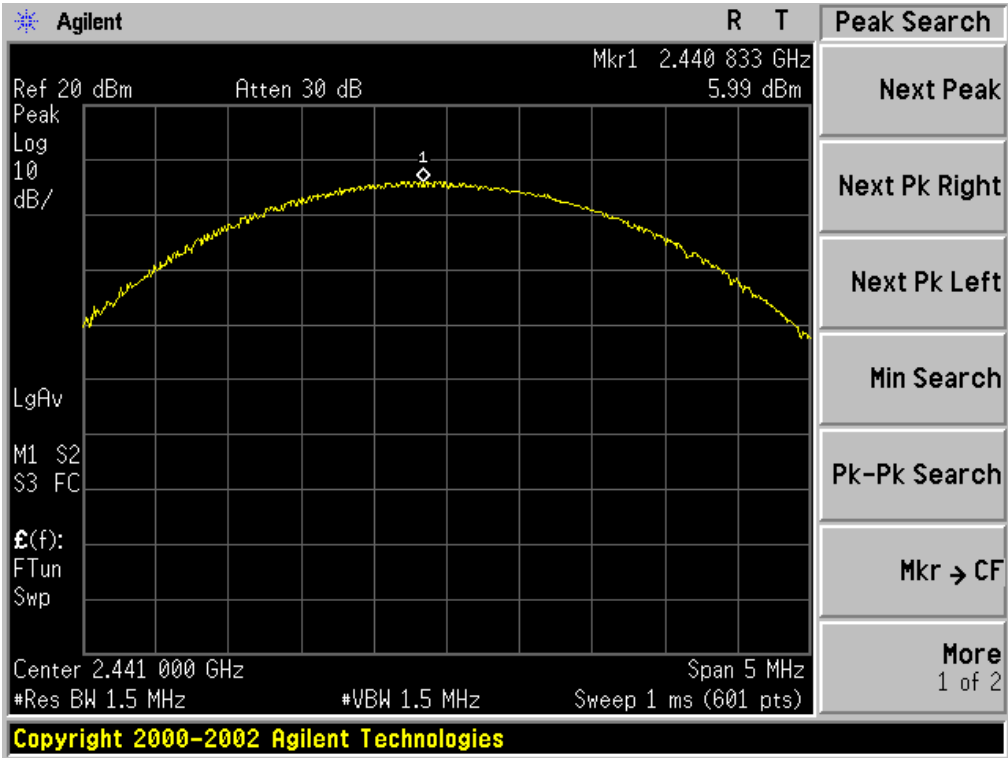


PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.83	21	Pass
2.441	5.99	21	Pass
2.480	6.89	21	Pass

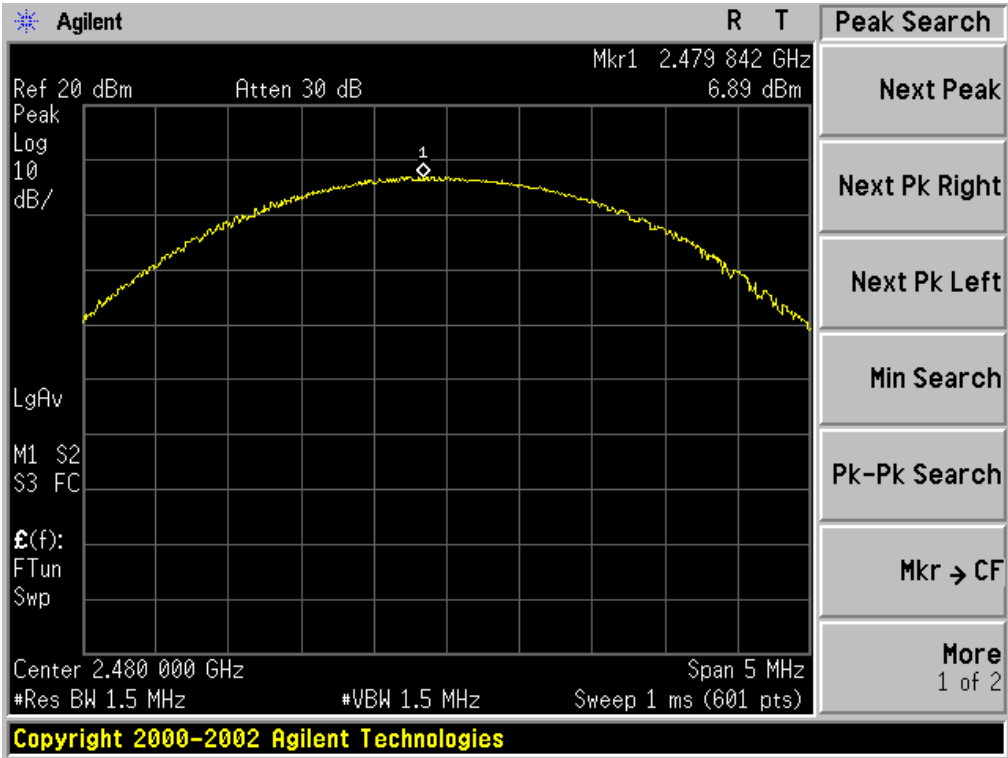
CH0



CH39

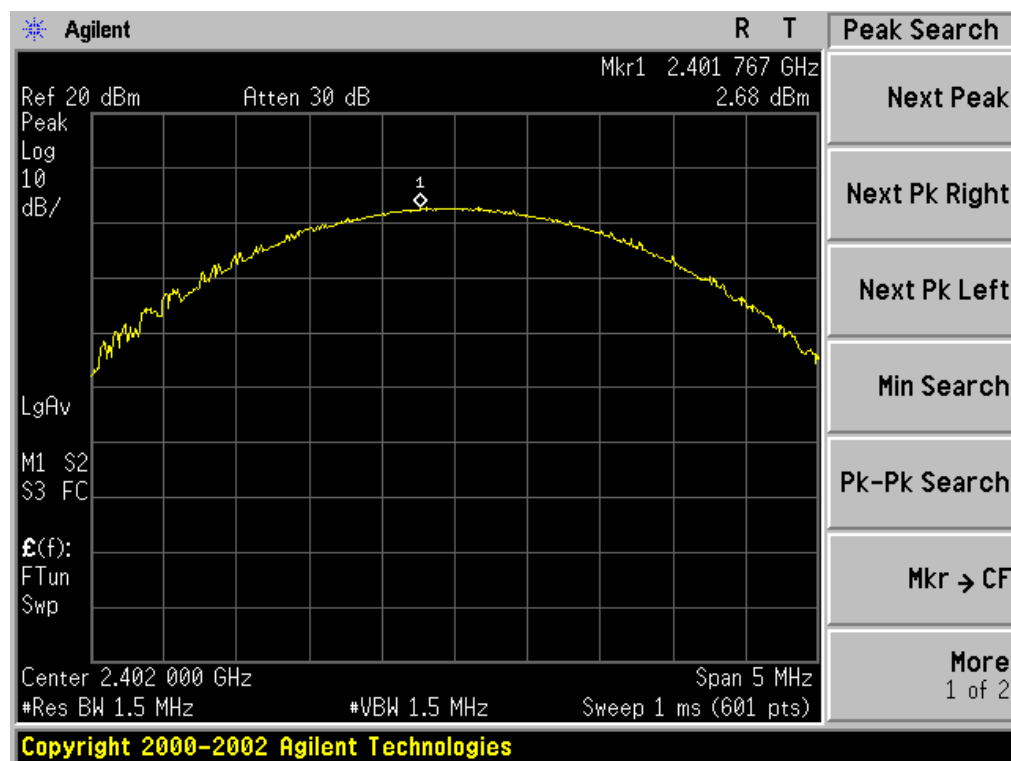


CH78

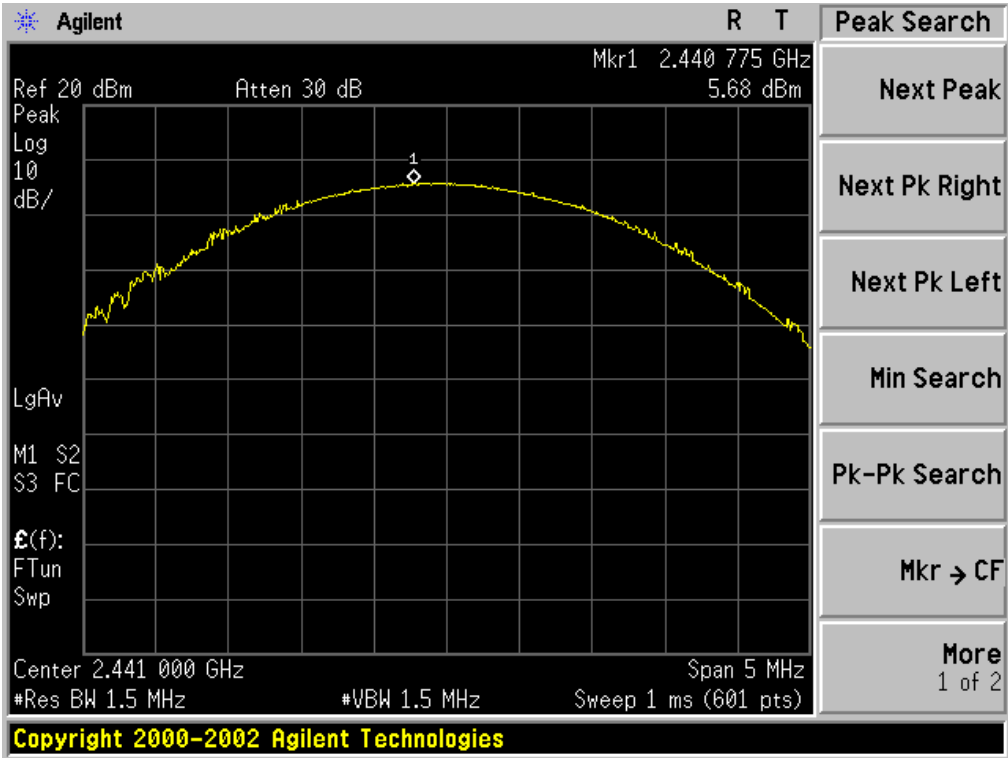


PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	2.68	21	Pass
2.441	5.68	21	Pass
2.480	6.69	21	Pass

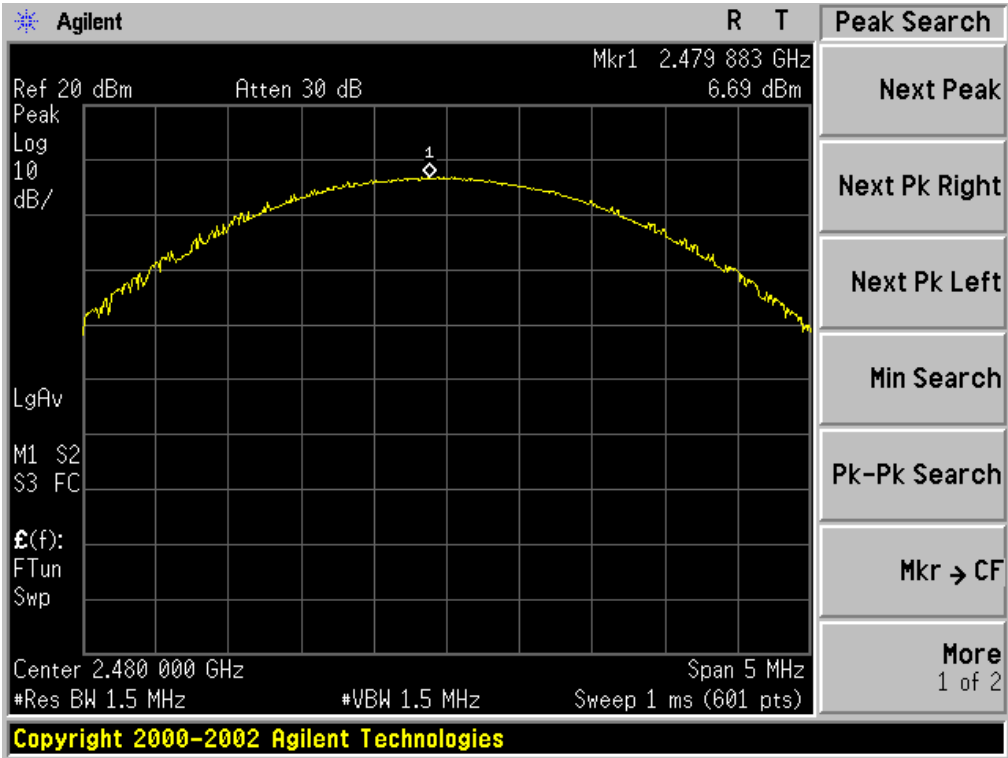
CH0



CH39



CH78

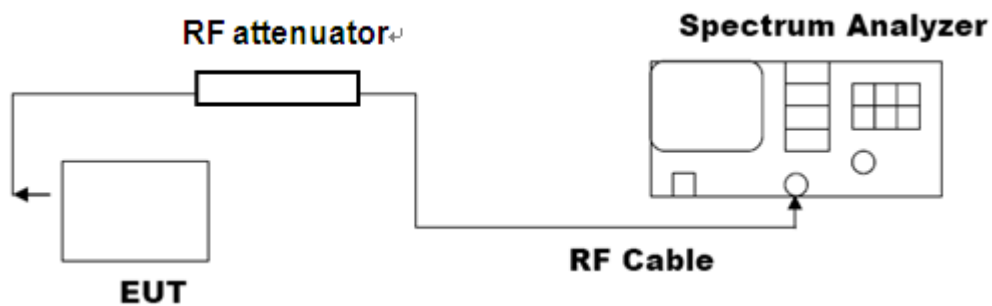


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



Note: The EUT has been used temporary antenna connector for testing.

8.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHZ)	
N/A	Low Channel	0.816	0.887	PASS
	Middle Channel	0.791	0.819	PASS
	High Channel	0.805	0.826	PASS

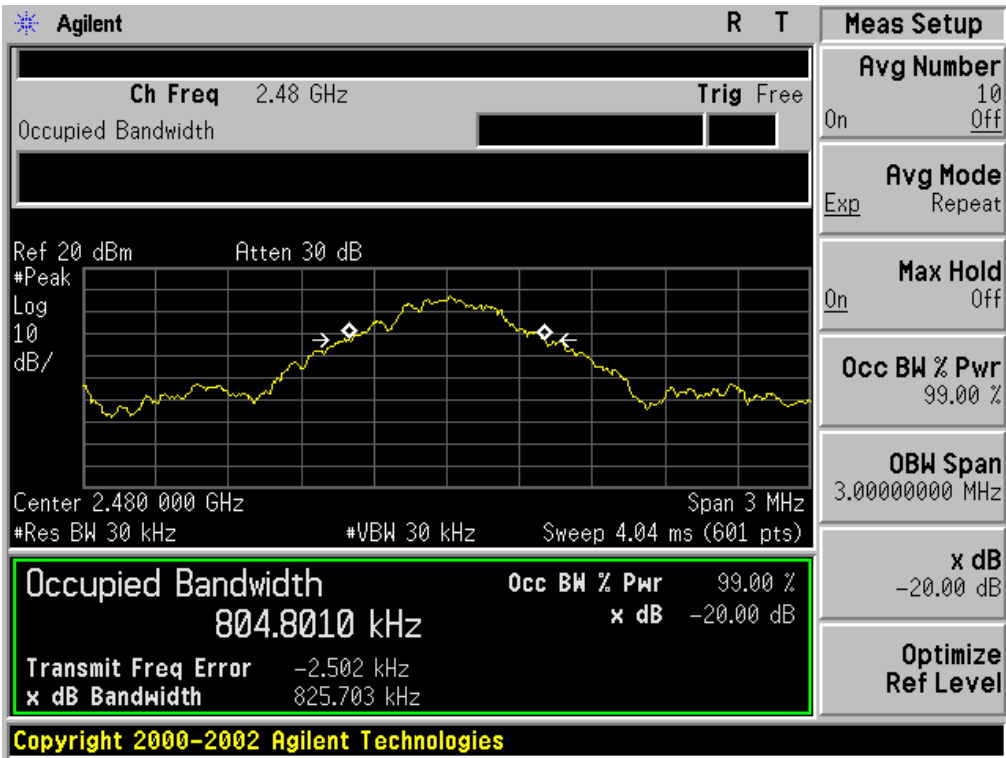
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

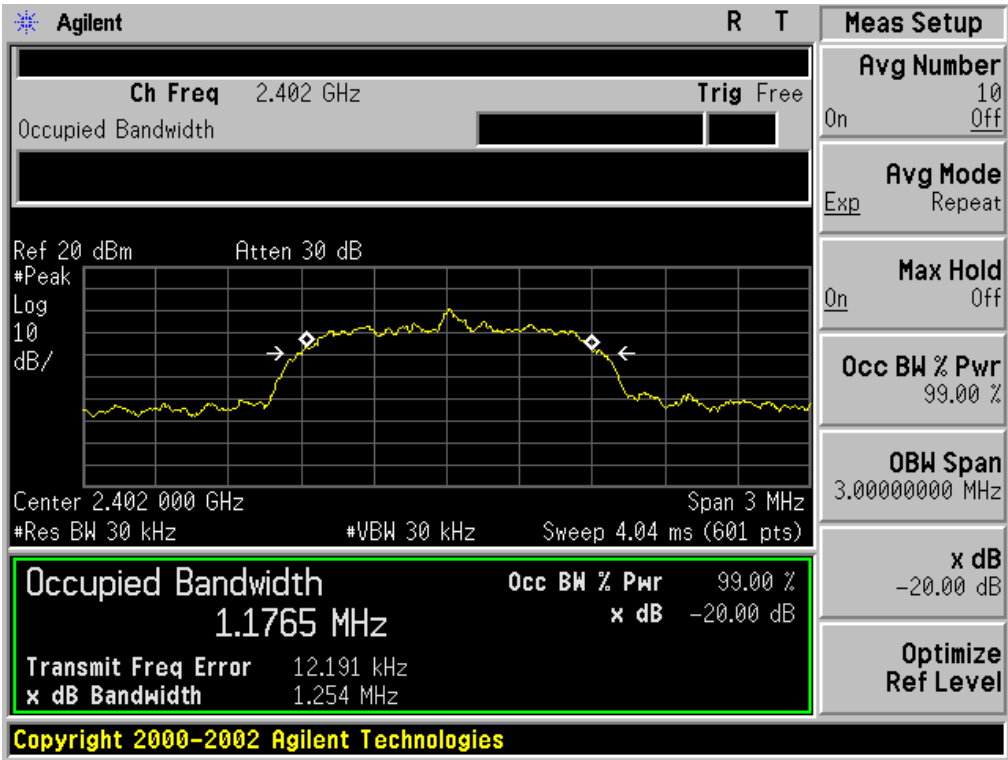


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

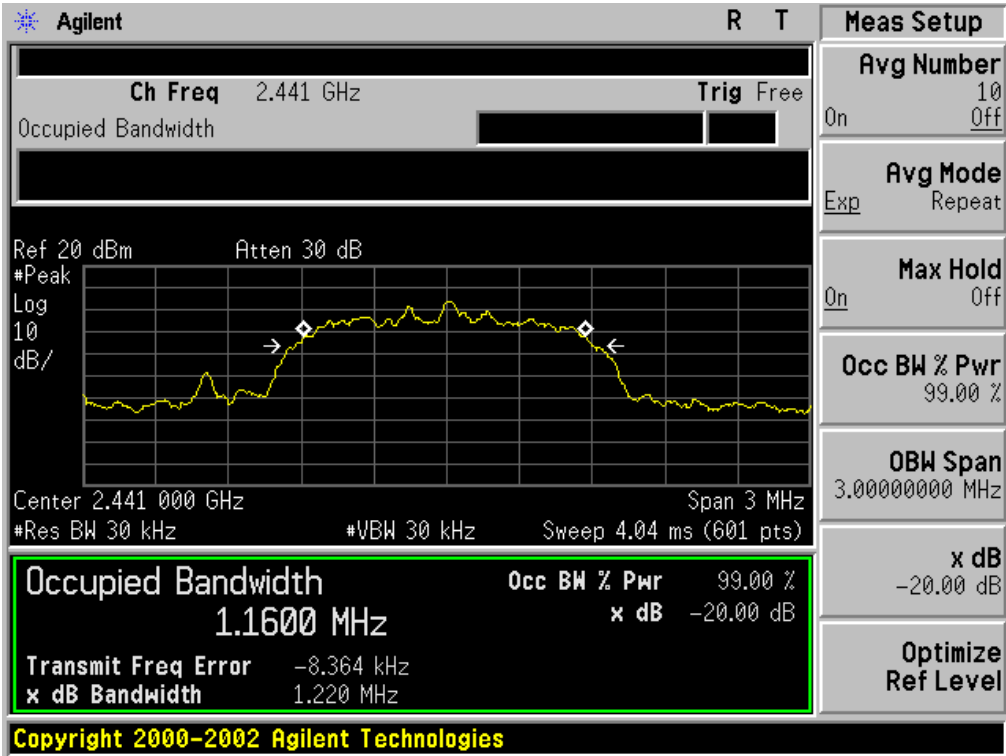


BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.177	1.254	PASS
	Middle Channel	1.160	1.220	PASS
	High Channel	1.168	1.255	PASS

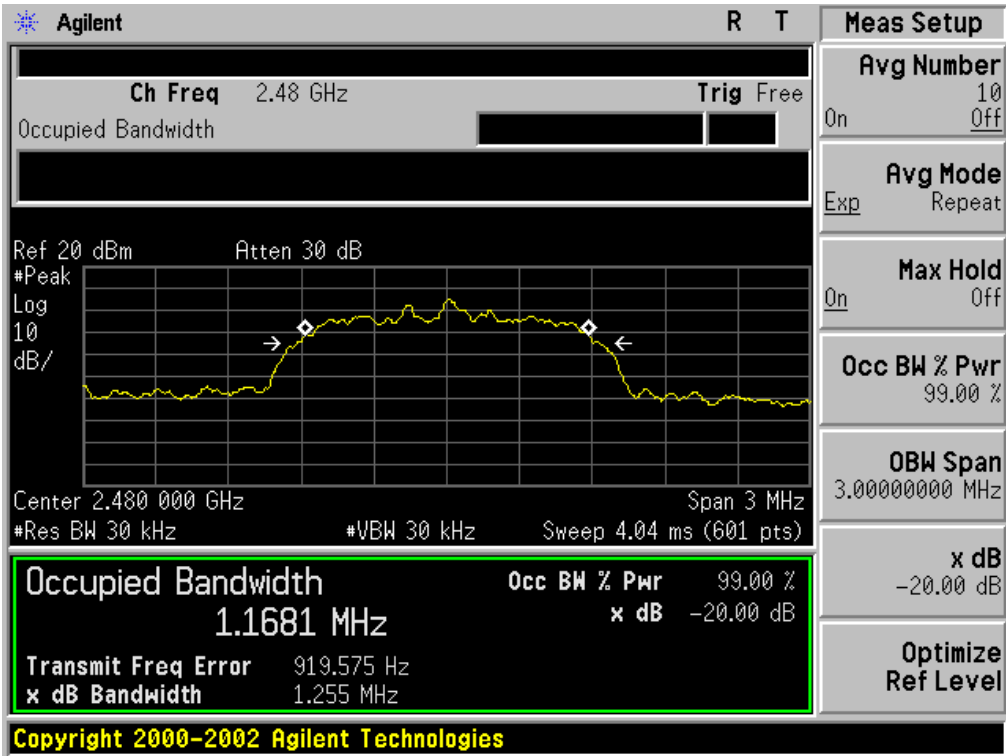
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

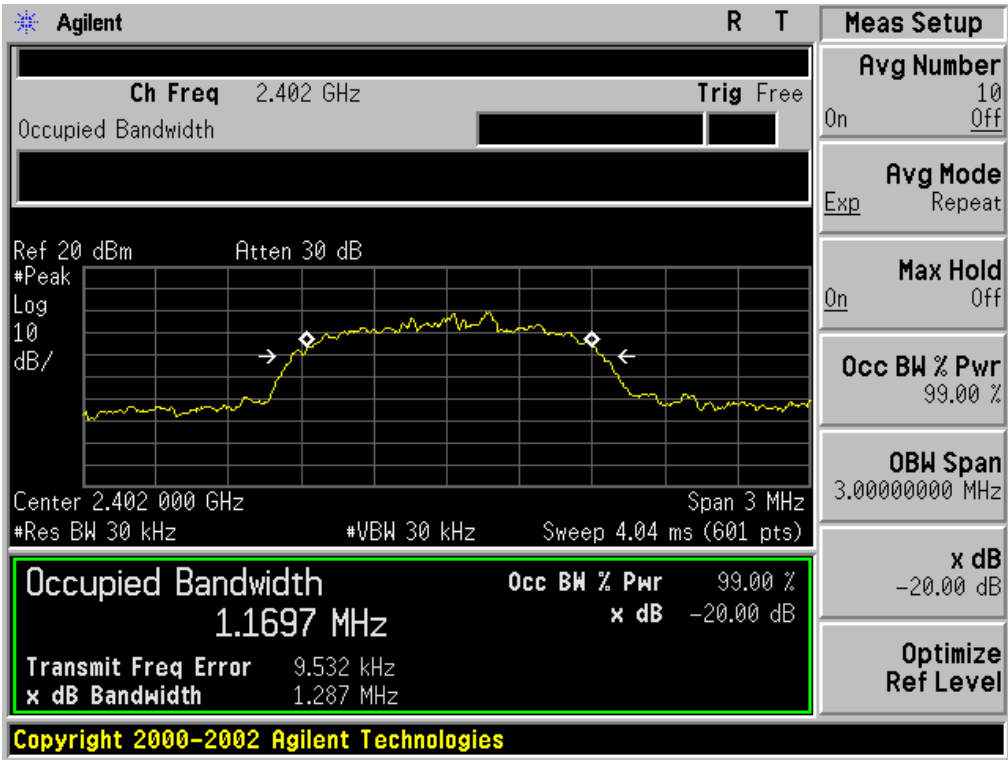


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

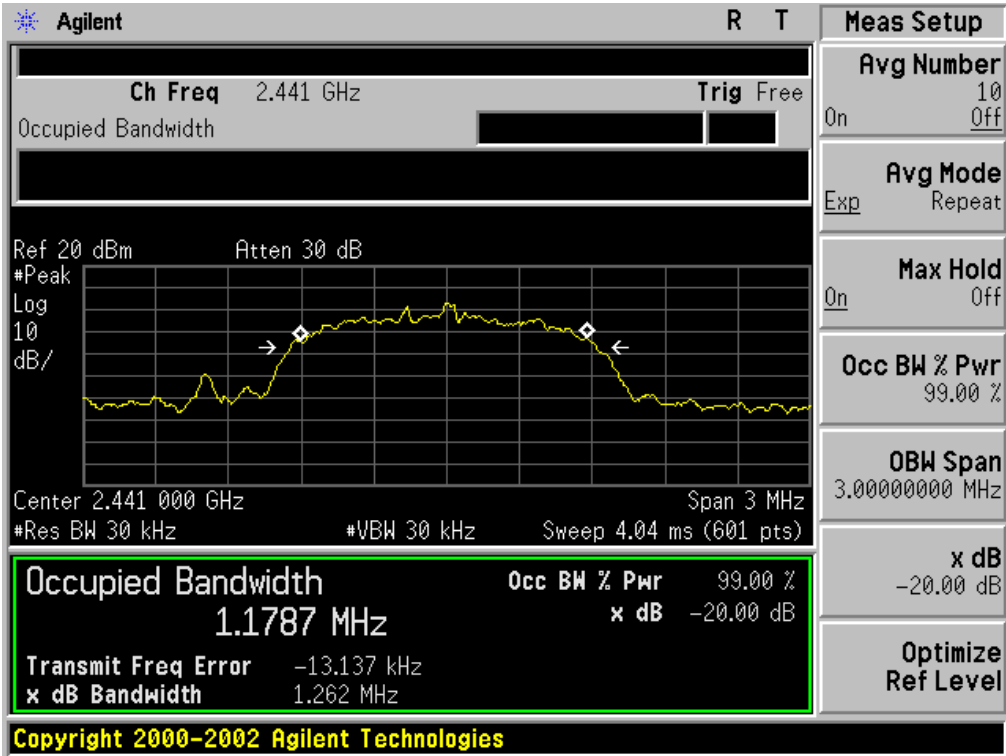


BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.170	1.287	PASS
	Middle Channel	1.179	1.262	PASS
	High Channel	1.175	1.264	PASS

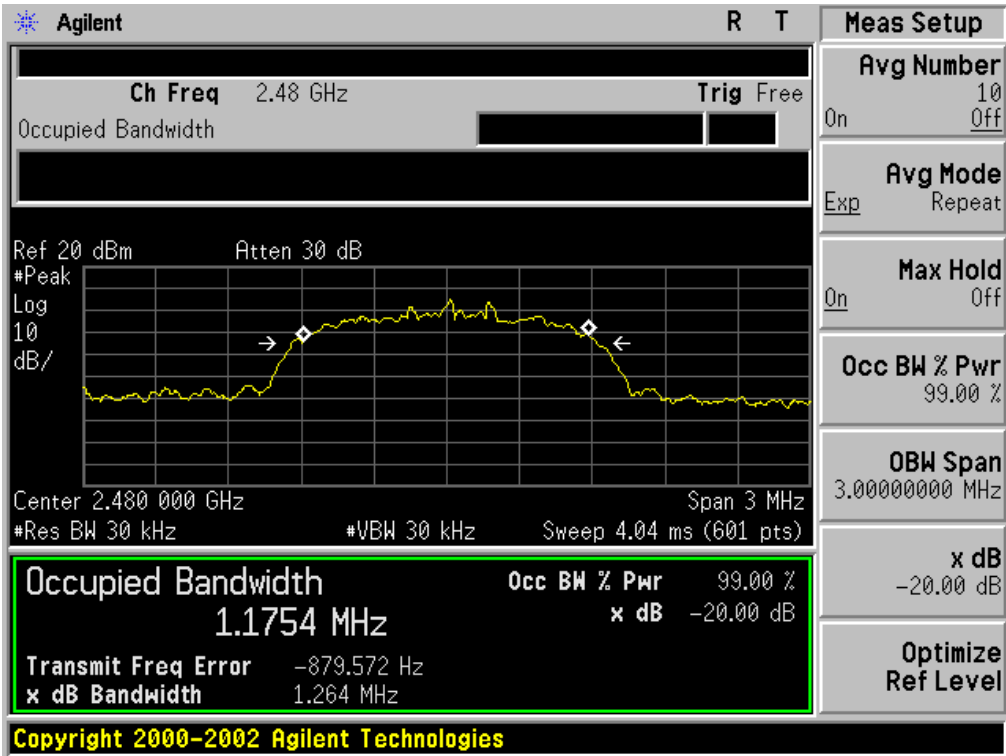
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
RBW = 100 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak.
4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

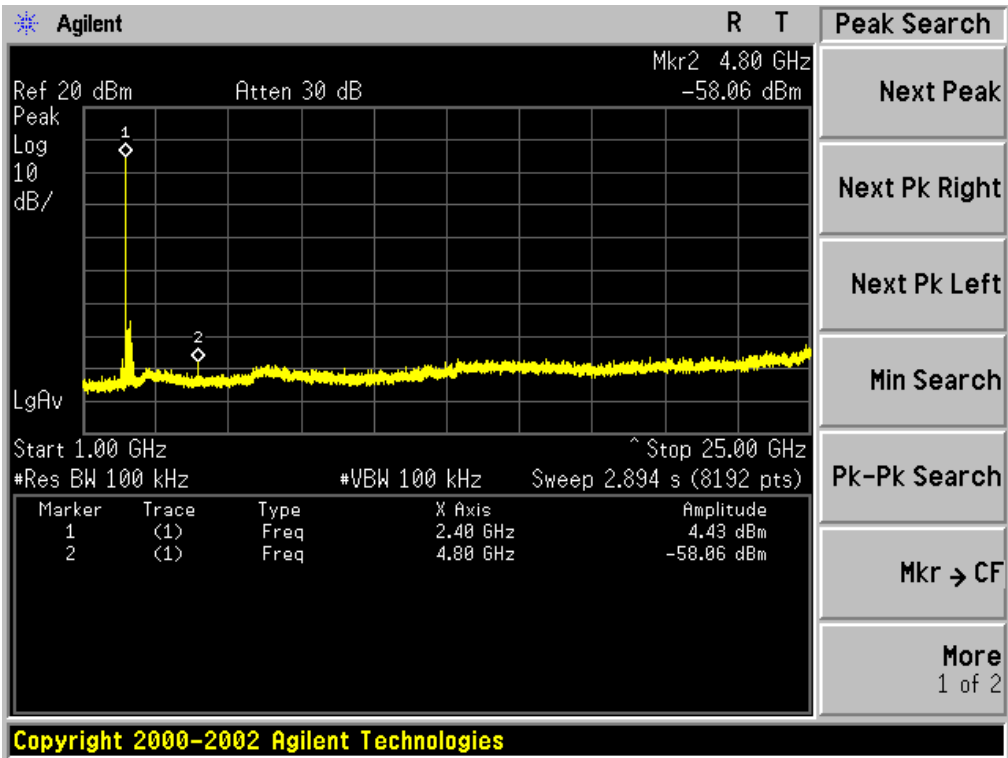
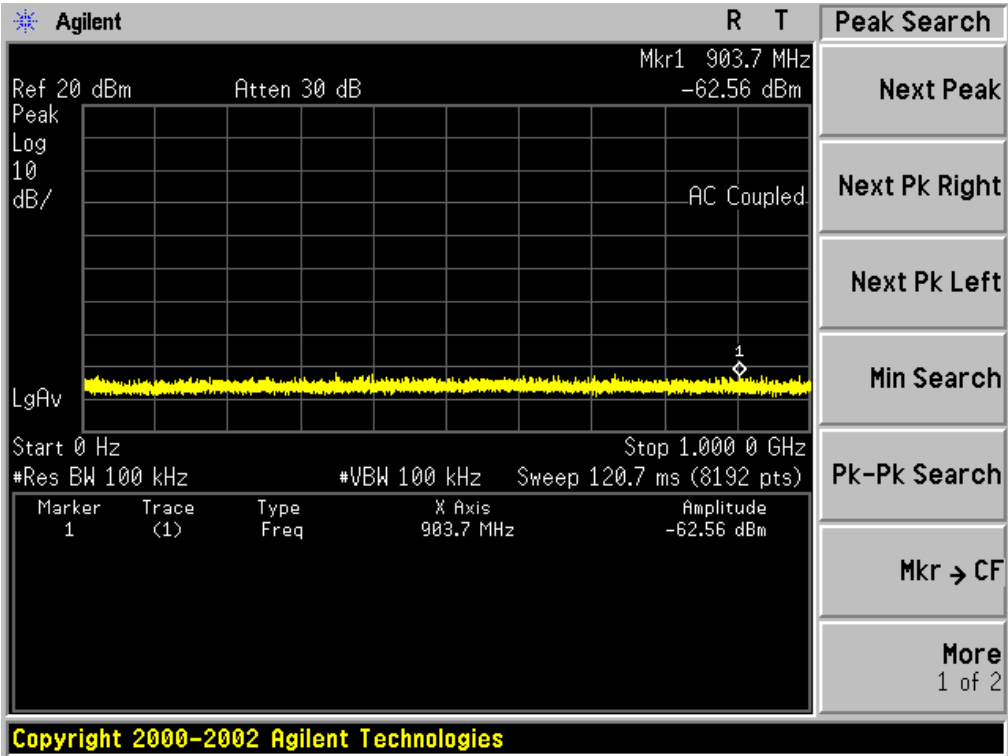
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

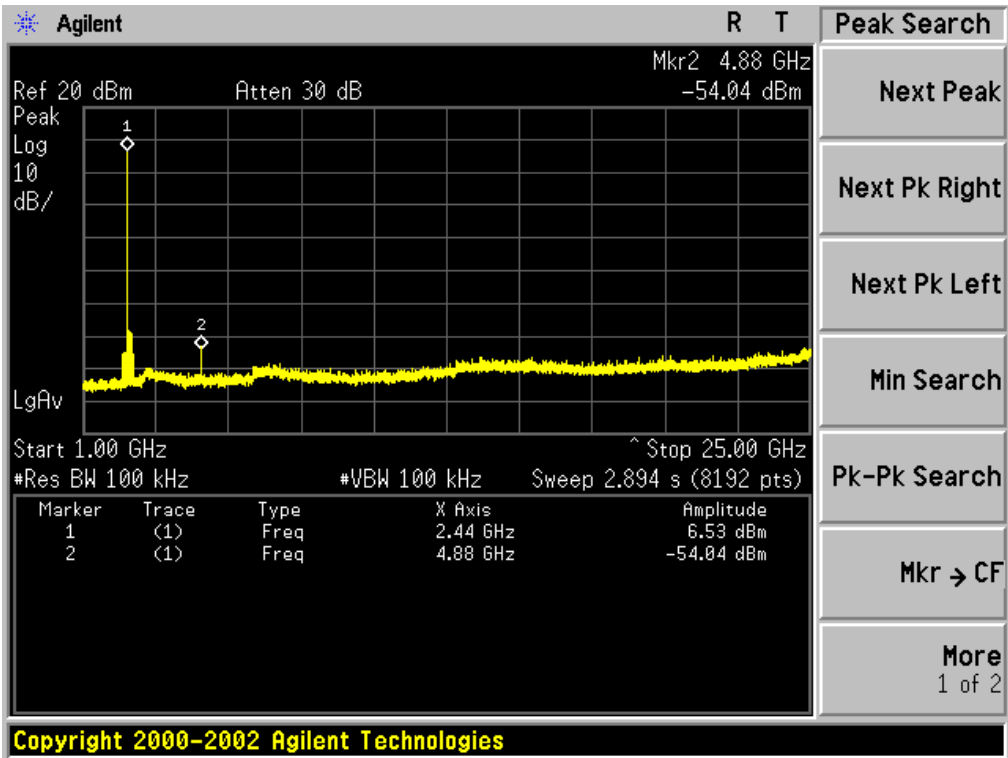
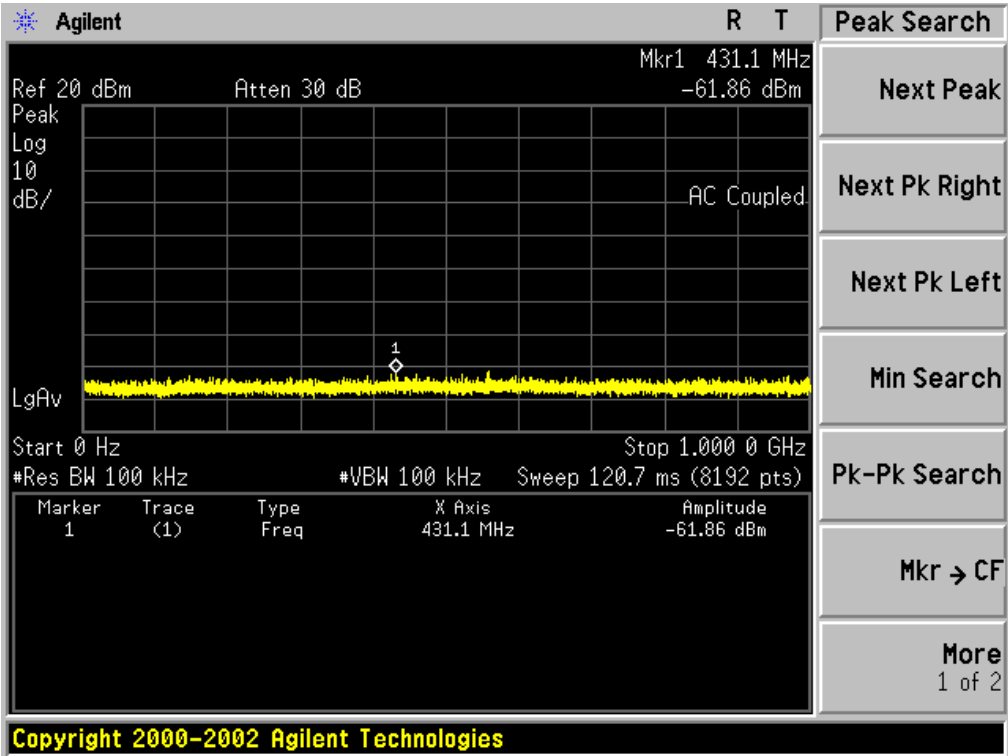
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

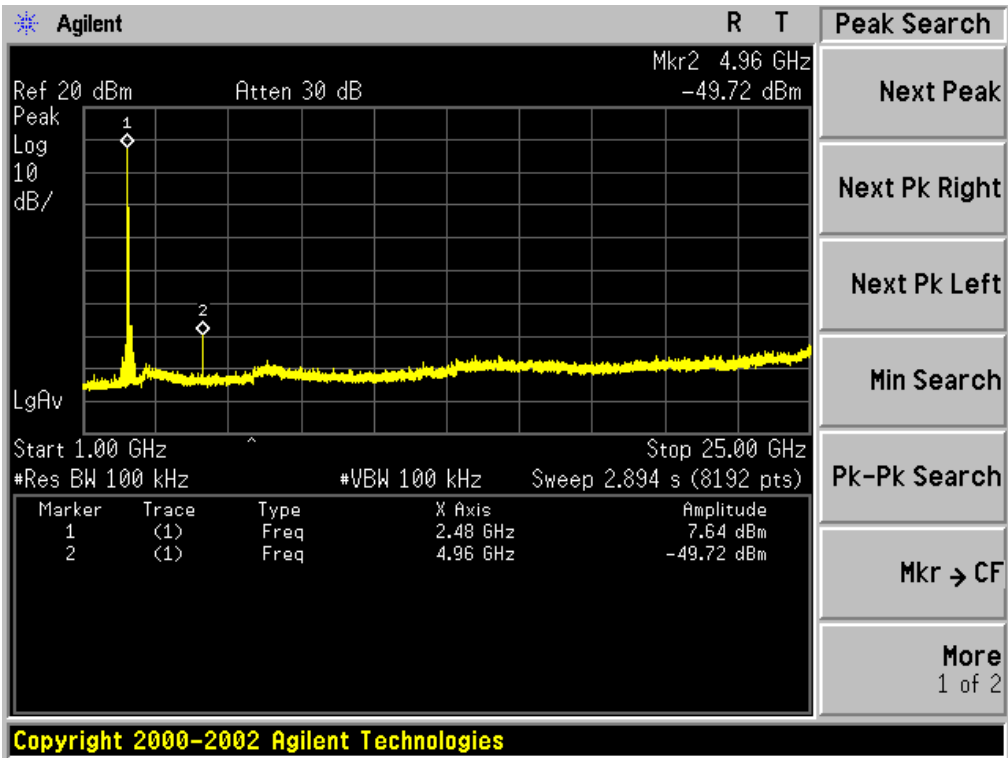
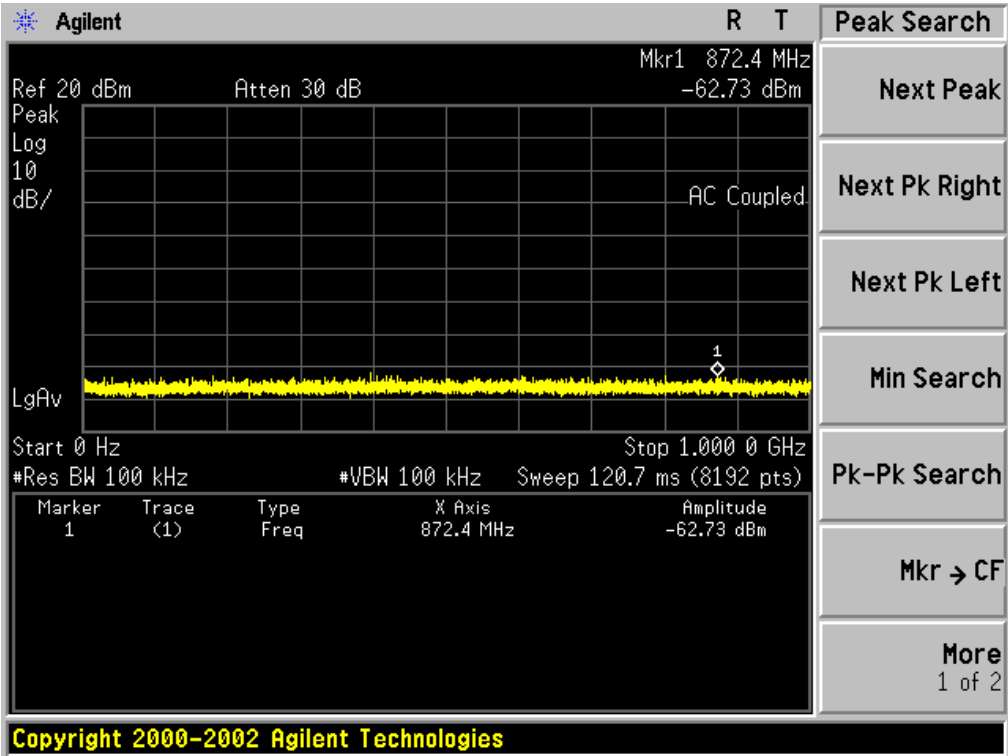
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE
OF GFSK MODULATION IN LOW CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS
OF GFSK MODULATION IN MIDDLE CHANNEL



TEST PLOT OF OUT OF BAND EMISSIONS
OF GFSK MODULATION IN HIGH CHANNEL



10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(above 1GHz)

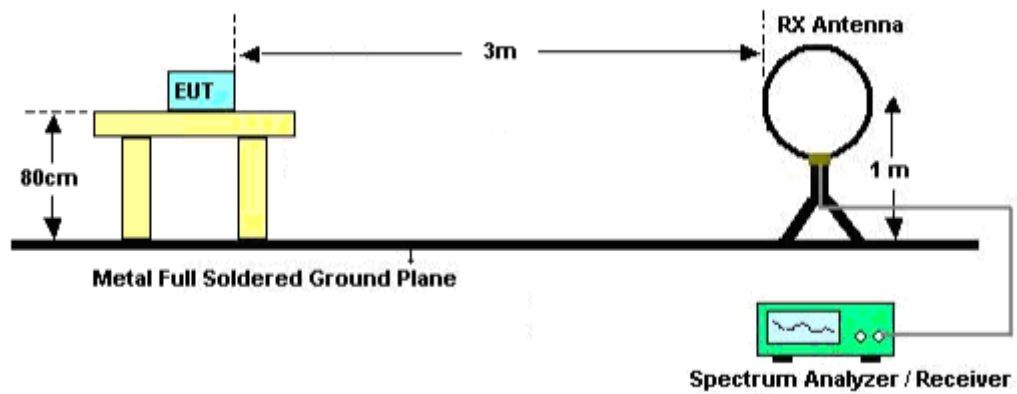
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average

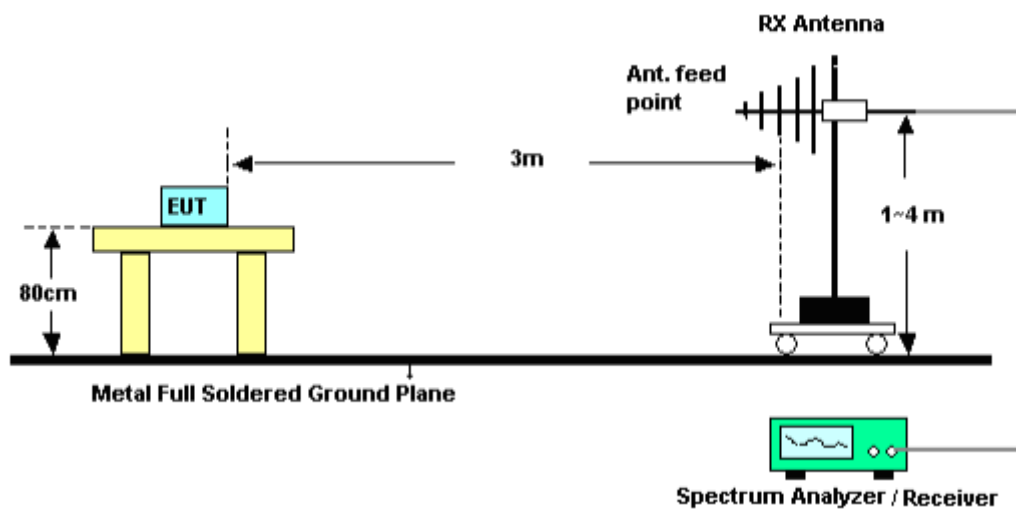
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

10.2. TEST SETUP

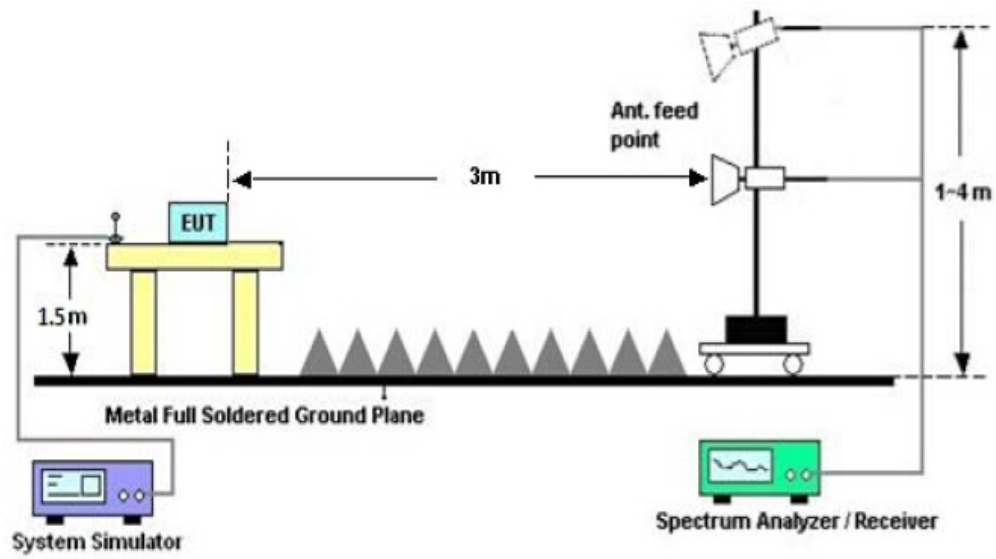
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



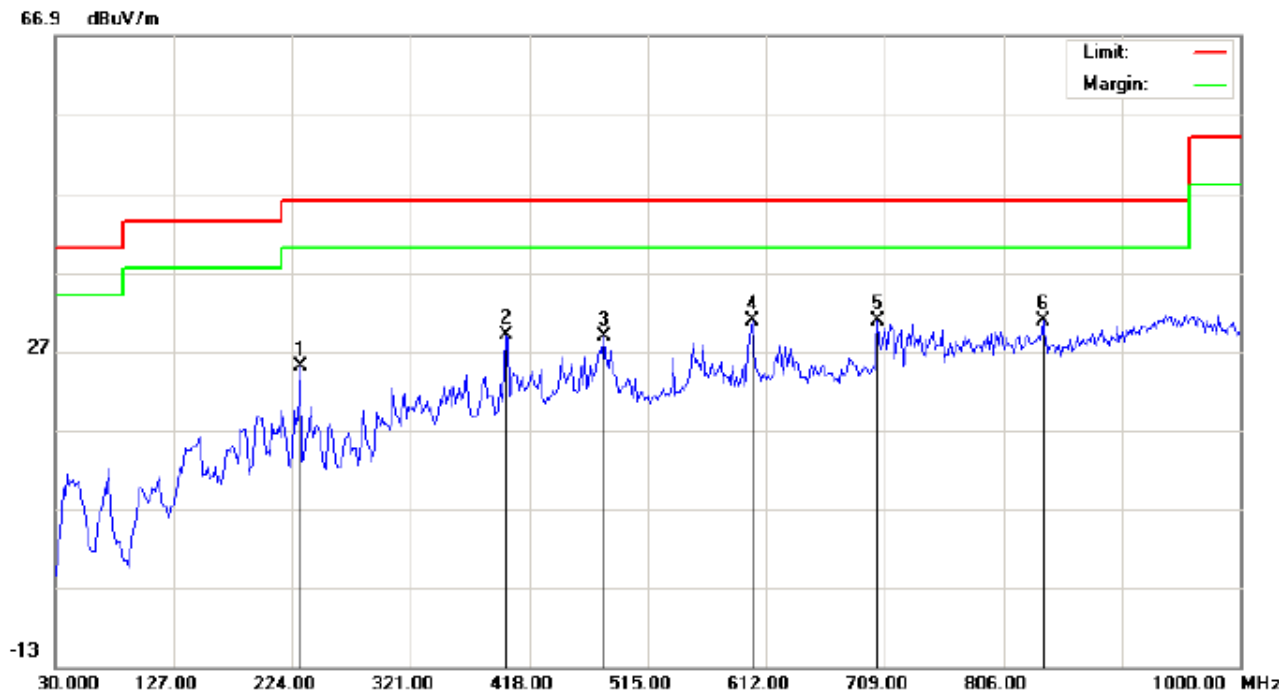
10.3. TEST RESULT (Worst Modulation: GFSK)

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL

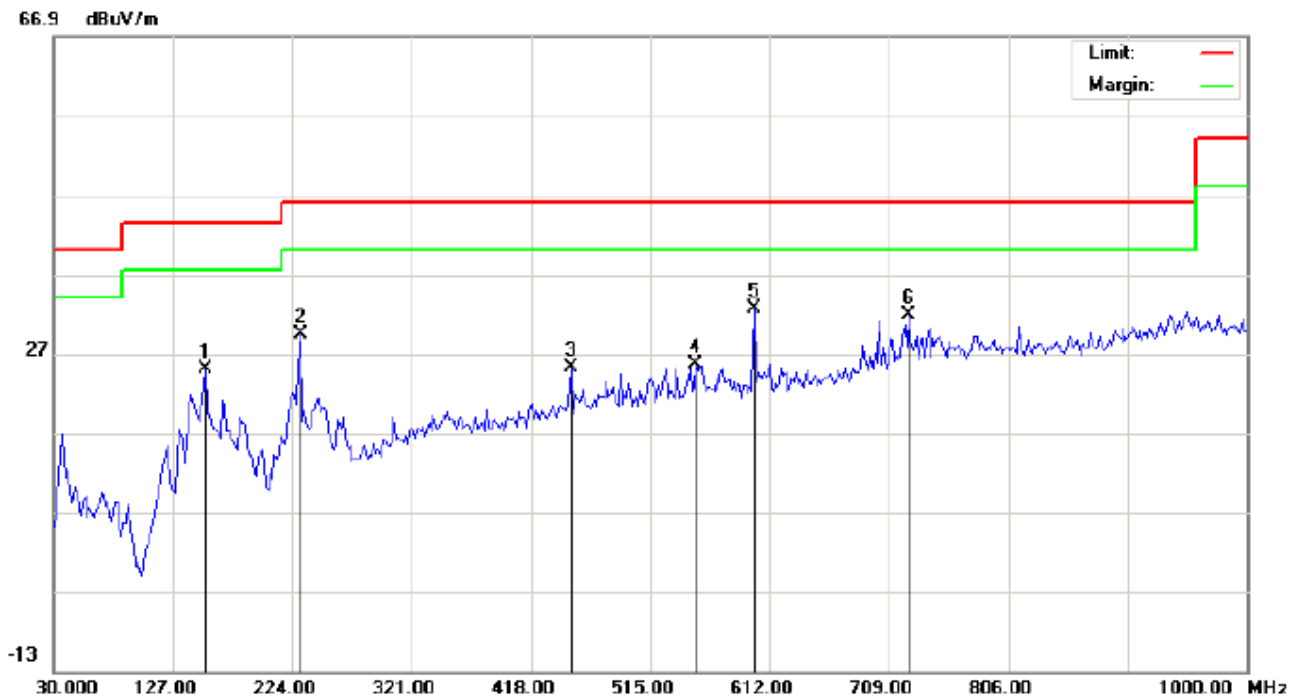


Site: site #1	Polarization: Horizontal	Temperature: 22.2
Limit: FCC Class B 3M Radiation	Power:	Humidity: 51.6 %
EUT: Bluetooth intercom	Distance:	
M/N: TTS		
Mode: Low Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		230.4667	16.17	8.89	25.06	46.00	-20.94	peak			
2		398.6000	10.04	19.06	29.10	46.00	-16.90	peak			
3		479.4333	7.91	20.91	28.82	46.00	-17.18	peak			
4	*	600.6833	7.17	23.73	30.90	46.00	-15.10	peak			
5		702.5333	5.56	25.26	30.82	46.00	-15.18	peak			
6		838.3333	3.43	27.31	30.74	46.00	-15.26	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1

Polarization: **Vertical**

Temperature: 22.2

Limit: FCC Class B 3M Radiation

Power:

Humidity: 51.6 %

EUT: Bluetooth intercom

Distance:

M/N: TTS

Mode: Low Channel TX

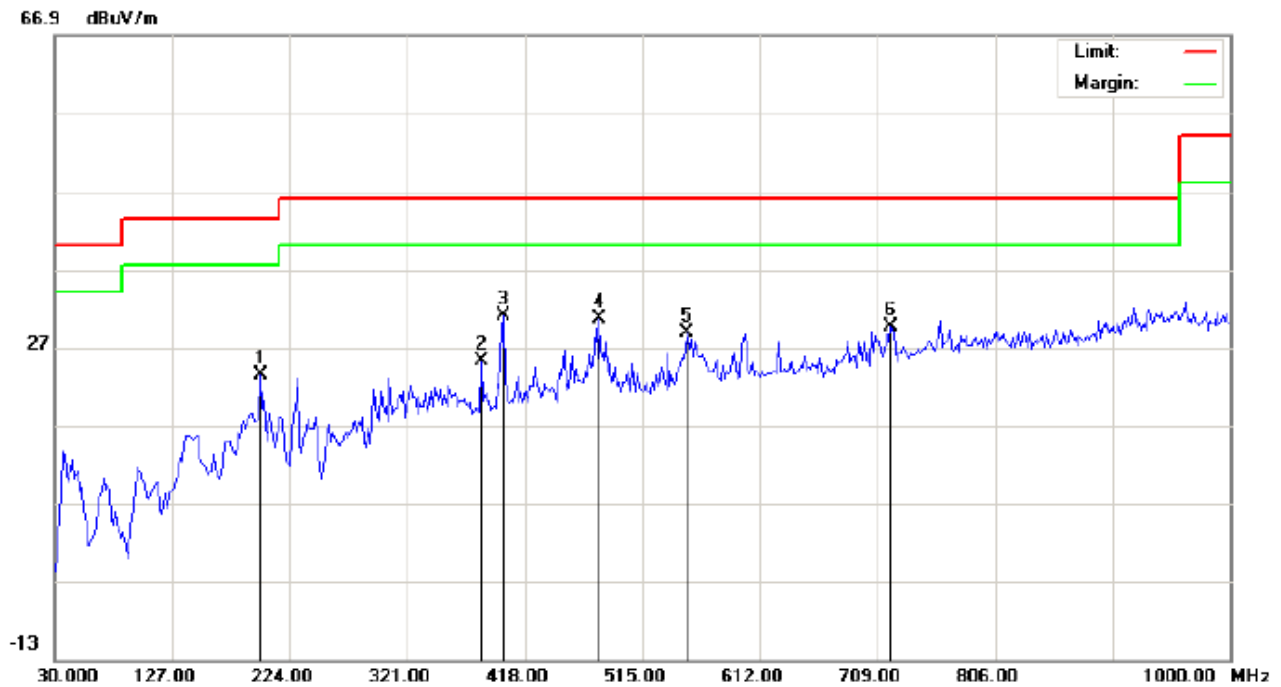
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		152.8667	9.78	15.28	25.06	43.50	-18.44	peak			
2		230.4667	17.36	11.99	29.35	46.00	-16.65	peak			
3		450.3333	4.60	20.59	25.19	46.00	-20.81	peak			
4		552.1833	3.13	22.49	25.62	46.00	-20.38	peak			
5	*	599.0667	9.93	22.73	32.66	46.00	-13.34	peak			
6		725.1667	5.84	25.91	31.75	46.00	-14.25	peak			

RESULT: PASS**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth intercom
M/N: TTS
Mode: Middle Channel TX
Note:

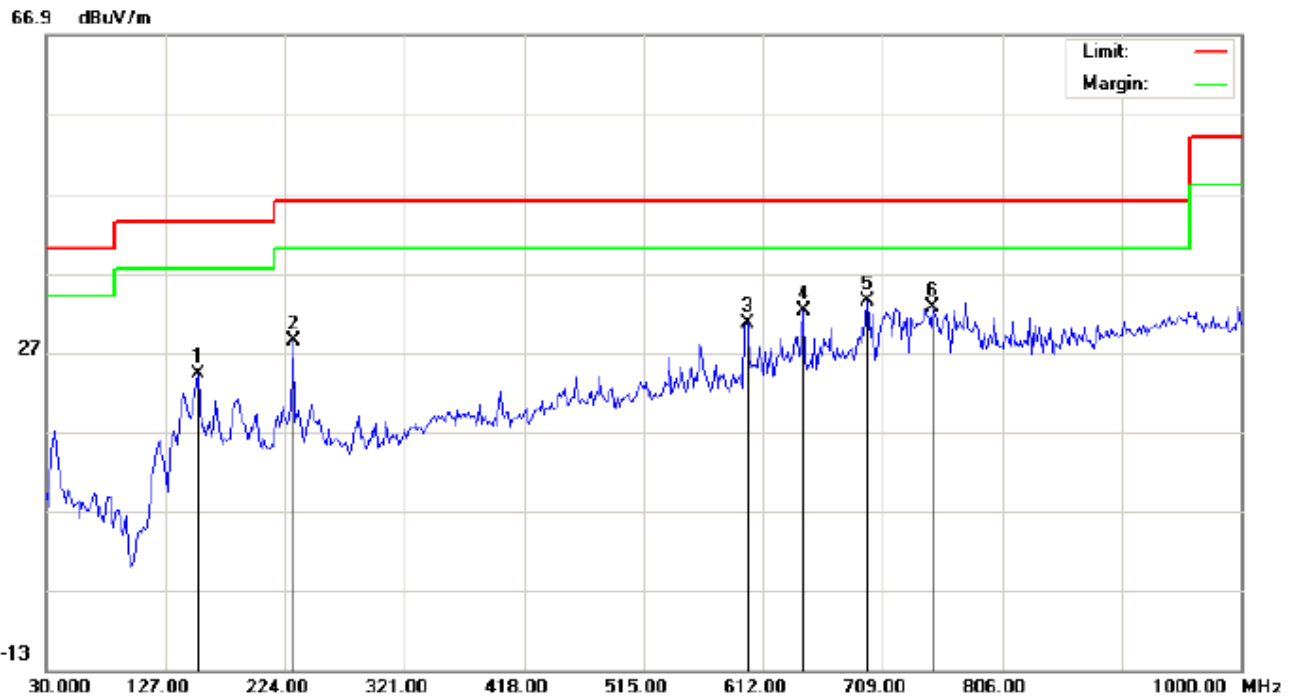
Polarization: *Horizontal*
Power:
Distance:

Temperature: 22.2
Humidity: 51.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		199.7500	11.33	11.99	23.32	43.50	-20.18	peak			
2		382.4333	6.32	18.95	25.27	46.00	-20.73	peak			
3	*	400.2167	11.96	19.08	31.04	46.00	-14.96	peak			
4		479.4333	9.75	20.91	30.66	46.00	-15.34	peak			
5		552.1833	6.30	22.53	28.83	46.00	-17.17	peak			
6		720.3167	3.86	25.78	29.64	46.00	-16.36	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1

Polarization: **Vertical**

Temperature: 22.2

Limit: FCC Class B 3M Radiation

Power:

Humidity: 51.6 %

EUT: Bluetooth intercom

Distance:

M/N: TTS

Mode: Middle Channel TX

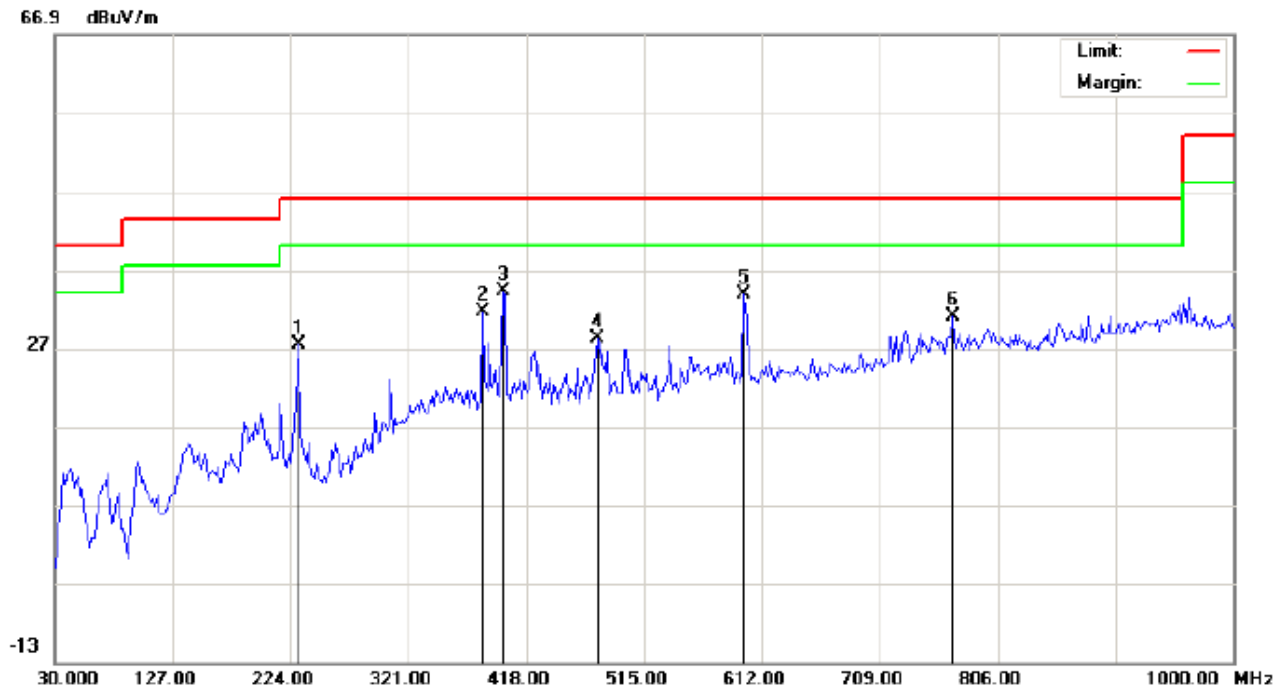
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		152.8667	8.92	15.28	24.20	43.50	-19.30	peak			
2		230.4667	16.33	11.99	28.32	46.00	-17.68	peak			
3		599.0667	7.79	22.73	30.52	46.00	-15.48	peak			
4		644.3333	8.47	23.72	32.19	46.00	-13.81	peak			
5	*	696.0667	8.30	25.08	33.38	46.00	-12.62	peak			
6		749.4167	6.03	26.61	32.64	46.00	-13.36	peak			

RESULT: PASS**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Bluetooth intercom
M/N: TTS
Mode: High Channel TX
Note:

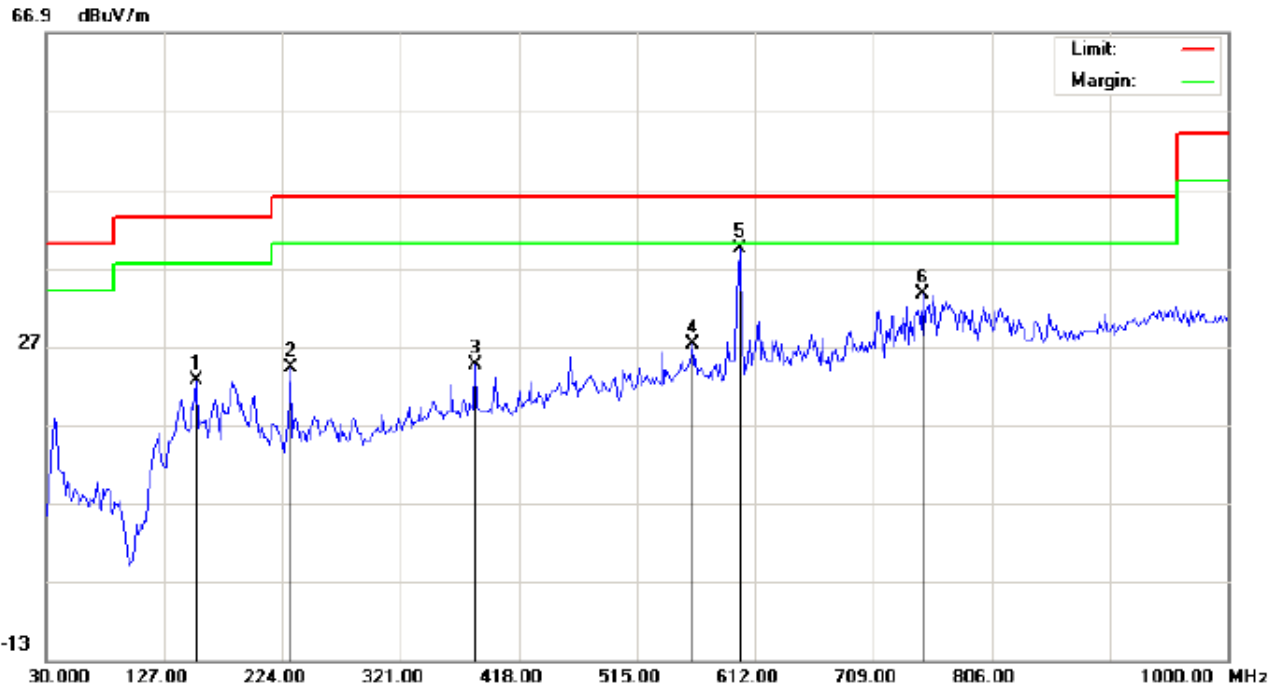
Polarization: Horizontal
Power:
Distance:

Temperature: 22.2
Humidity: 51.6 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		230.4667	18.42	8.89	27.31	46.00	-18.69	peak			
2		382.4333	12.62	18.95	31.57	46.00	-14.43	peak			
3	*	398.6000	15.23	19.06	34.29	46.00	-11.71	peak			
4		476.2000	7.34	20.87	28.21	46.00	-17.79	peak			
5		597.4500	10.19	23.67	33.86	46.00	-12.14	peak			
6		768.8167	4.11	26.89	31.00	46.00	-15.00	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1

Polarization: **Vertical**

Temperature: 22.2

Limit: FCC Class B 3M Radiation

Power:

Humidity: 51.6 %

EUT: Bluetooth intercom

Distance:

M/N: TTS

Mode: High Channel TX

Note:

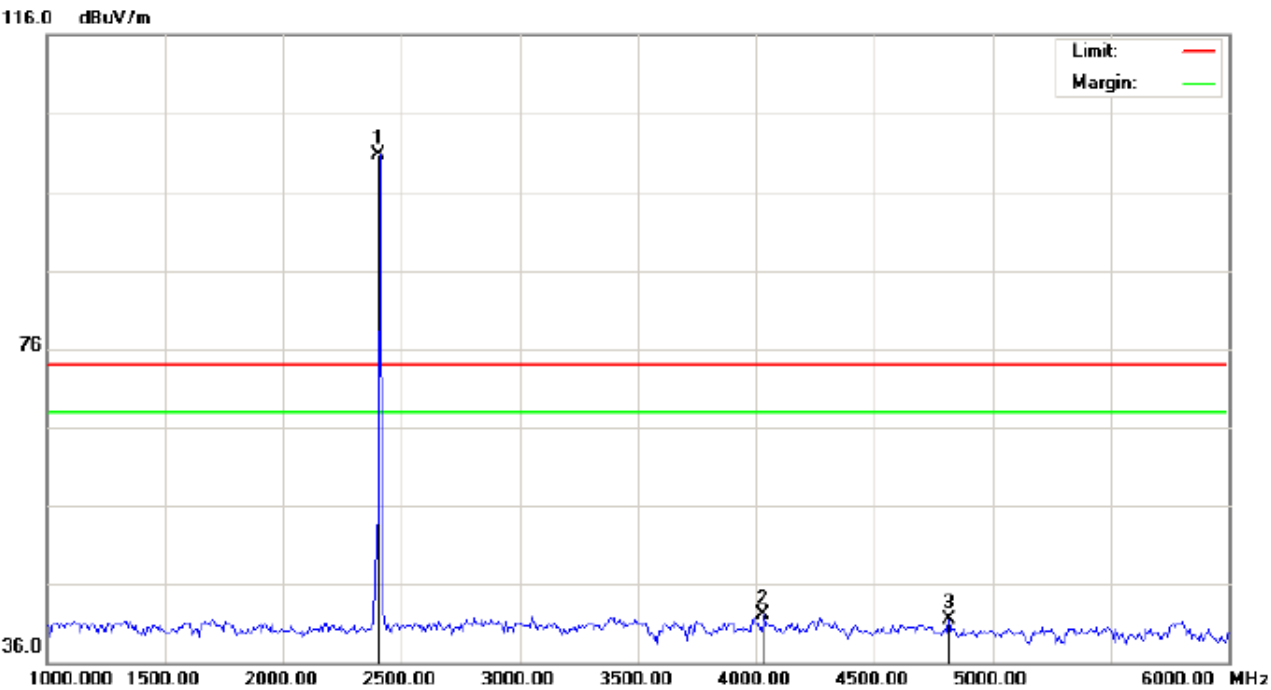
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		152.8667	7.37	15.28	22.65	43.50	-20.85	peak			
2		230.4667	12.14	11.99	24.13	46.00	-21.87	peak			
3		382.4333	5.58	18.95	24.53	46.00	-21.47	peak			
4		560.2667	4.68	22.53	27.21	46.00	-18.79	peak			
5	*	599.0667	16.72	22.73	39.45	46.00	-6.55	peak			
6		749.4167	7.03	26.61	33.64	46.00	-12.36	peak			

RESULT: PASS**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ

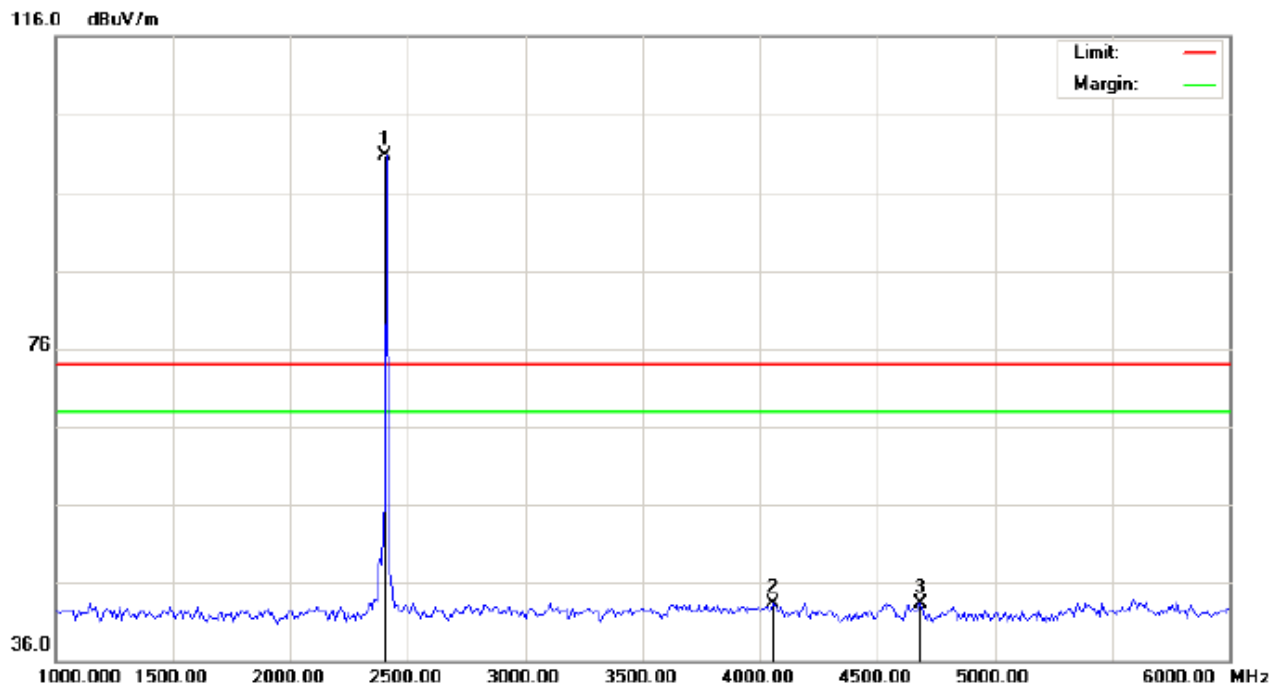
RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



Site: site #1	Polarization: <i>Horizontal</i>	Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK)	Power:	Humidity: 60 %
EUT: Bluetooth intercom	Distance:	
M/N: TTS		
Mode: Low Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	90.33	10.32	100.65	74.00	26.65	peak			
2		4033.333	27.49	14.64	42.13	74.00	-31.87	peak			
3		4816.667	33.70	7.72	41.42	74.00	-32.58	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-LOW CHANNEL –VERTICAL

Site: site #1

Polarization: *Vertical*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

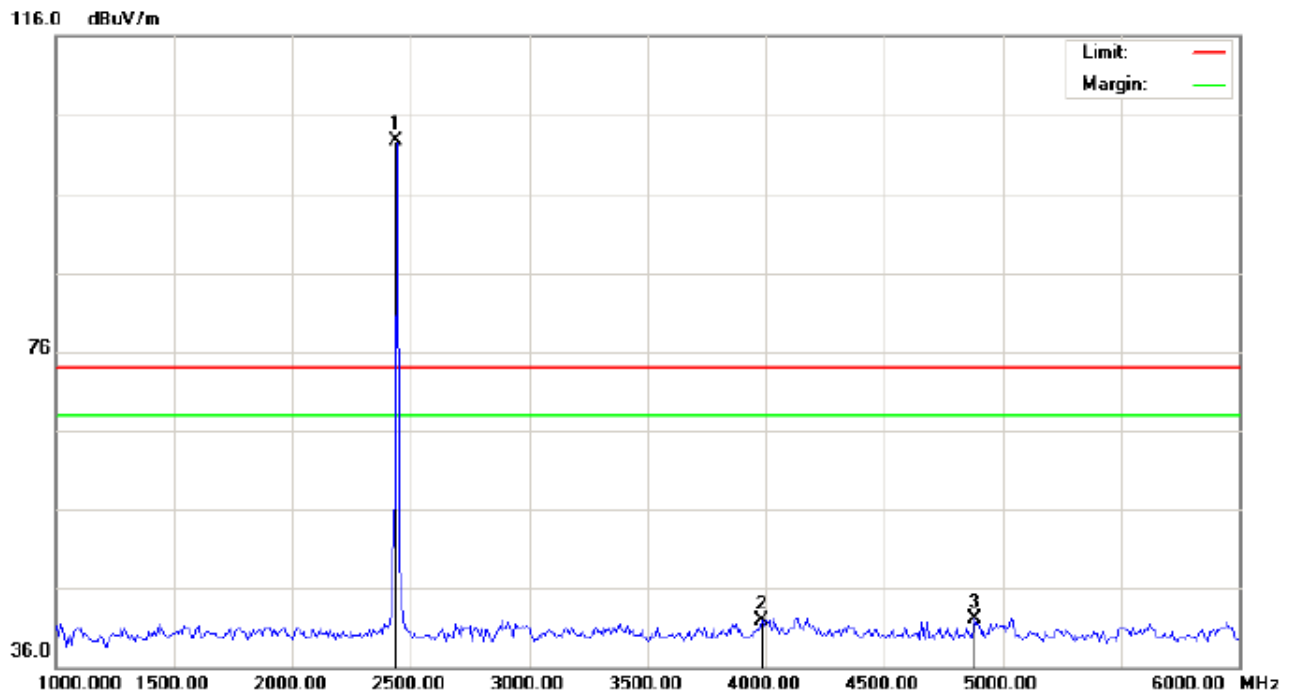
M/N: TTS

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	90.44	10.32	100.76	74.00	26.76	peak			
2		4058.333	29.01	14.22	43.23	74.00	-30.77	peak			
3		4683.333	36.00	7.37	43.37	74.00	-30.63	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL

Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

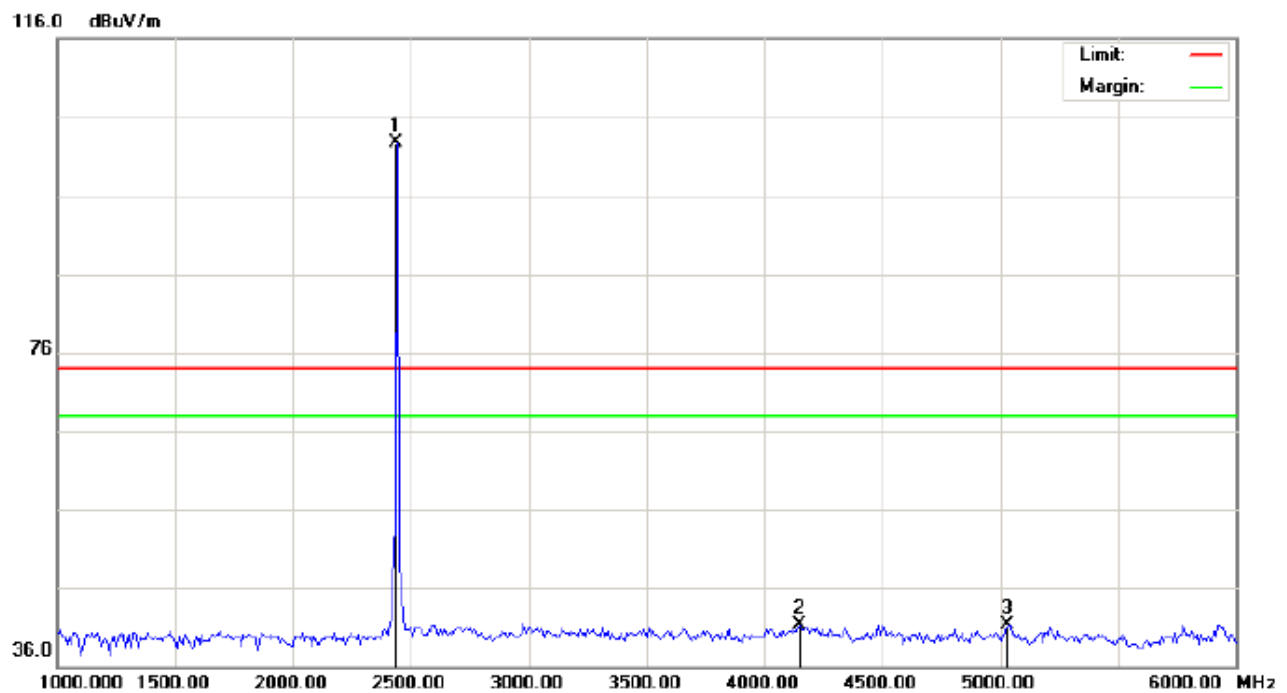
M/N: TTS

Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2440.000	92.26	10.36	102.62	74.00	28.62	peak			
2		3983.333	26.80	15.09	41.89	74.00	-32.11	peak			
3		4883.333	34.16	7.89	42.05	74.00	-31.95	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) - MIDDLE CHANNEL –VERTICAL

Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

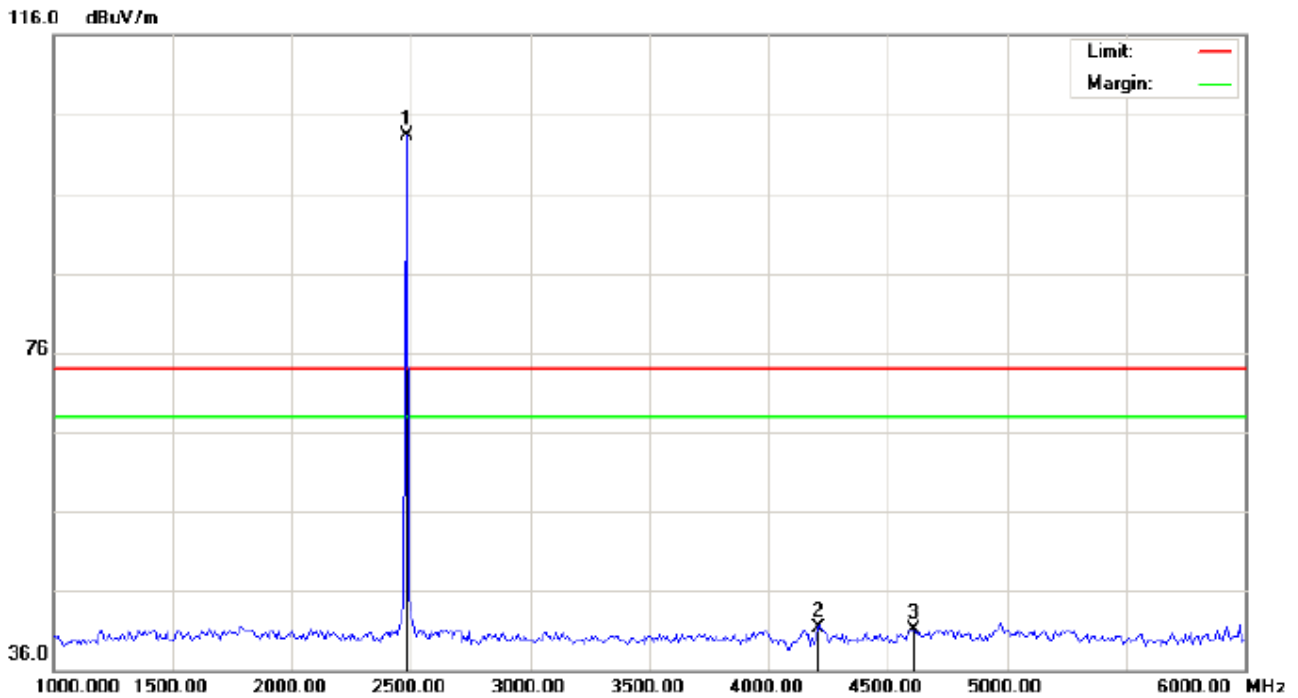
M/N: TTS

Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2440.000	92.40	10.36	102.76	74.00	28.76	peak			
2		4150.000	28.60	12.70	41.30	74.00	-32.70	peak			
3		5033.333	33.74	7.53	41.27	74.00	-32.73	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL-HORIZONTAL

Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

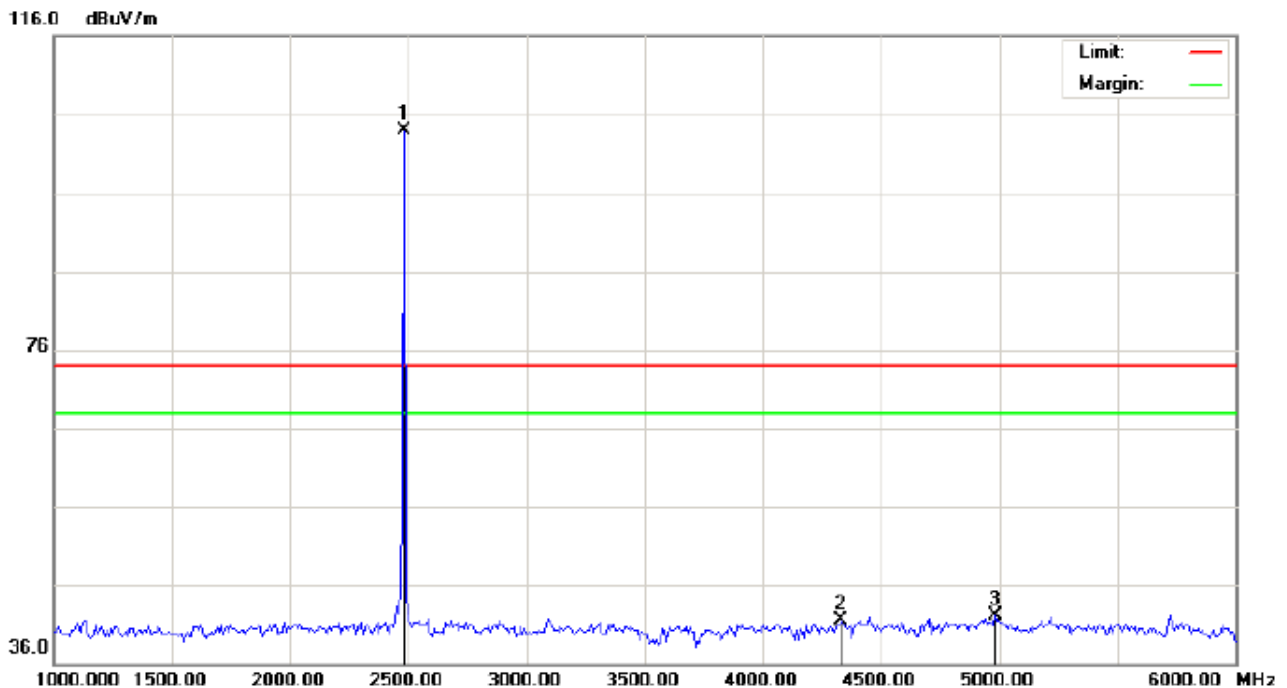
M/N: TTS

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	92.97	10.41	103.38	74.00	29.38	peak			
2		4208.333	29.62	11.73	41.35	74.00	-32.65	peak			
3		4608.333	34.00	7.17	41.17	74.00	-32.83	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics)-HIGH CHANNEL –VERTICAL

Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

M/N: TTS

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	93.42	10.41	103.83	74.00	29.83	peak			
2		4333.333	31.89	9.66	41.55	74.00	-32.45	peak			
3		4983.333	33.95	8.16	42.11	74.00	-31.89	peak			

RESULT: PASS**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain, Margin=Measurement-Limit.

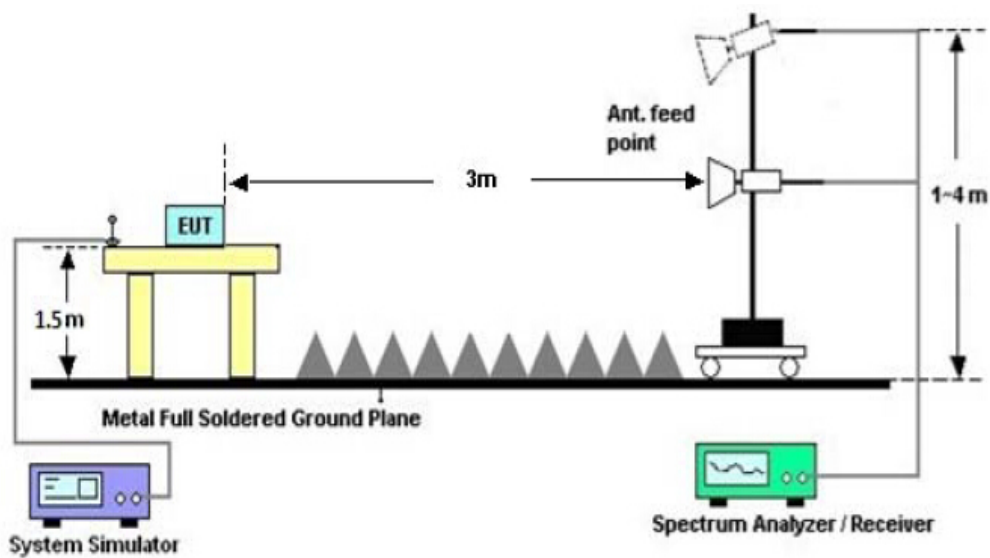
The "Factor" value can be calculated automatically by software of measurement system.

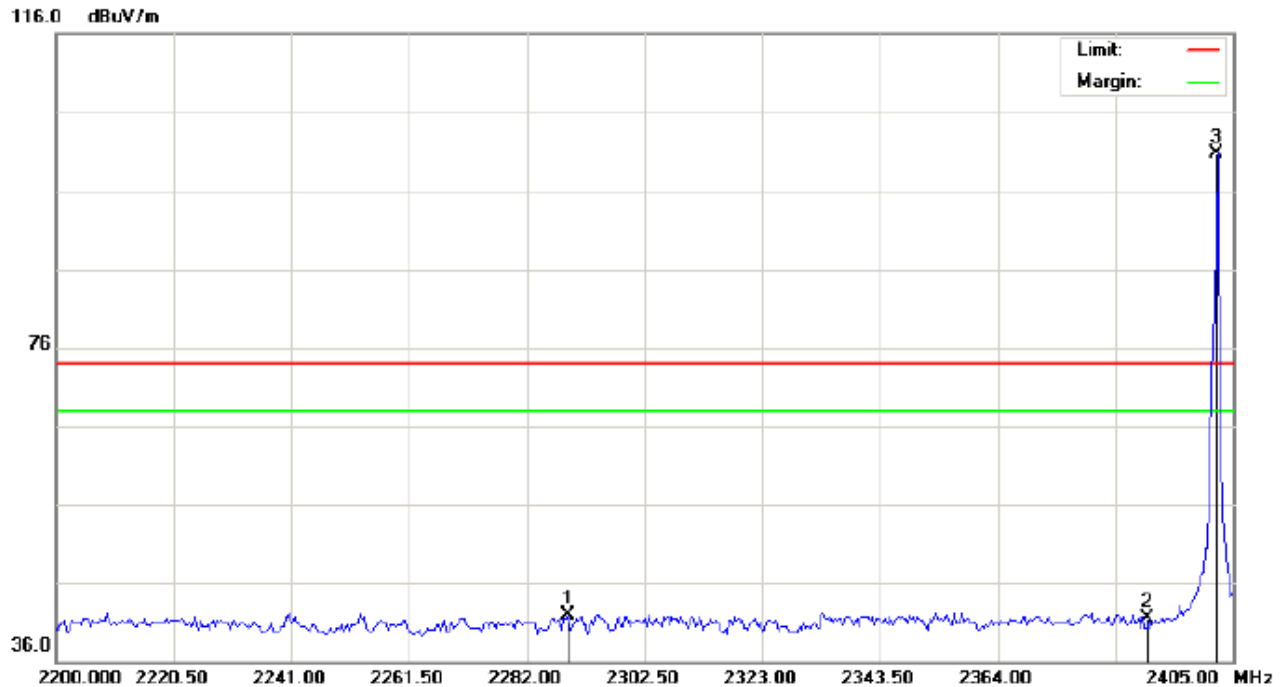
11. BAND EDGE EMISSION

11.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency=Operation Frequency, $RBW \geq 100\text{kHz}$, $VBW \geq 3 \times RBW$,
Center frequency =Operation frequency
3. The band edges was measured and recorded.

11.2. TEST SET-UP



11.3. TEST RESULT (Worst Modulation: GFSK)**TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Horizontal**

Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

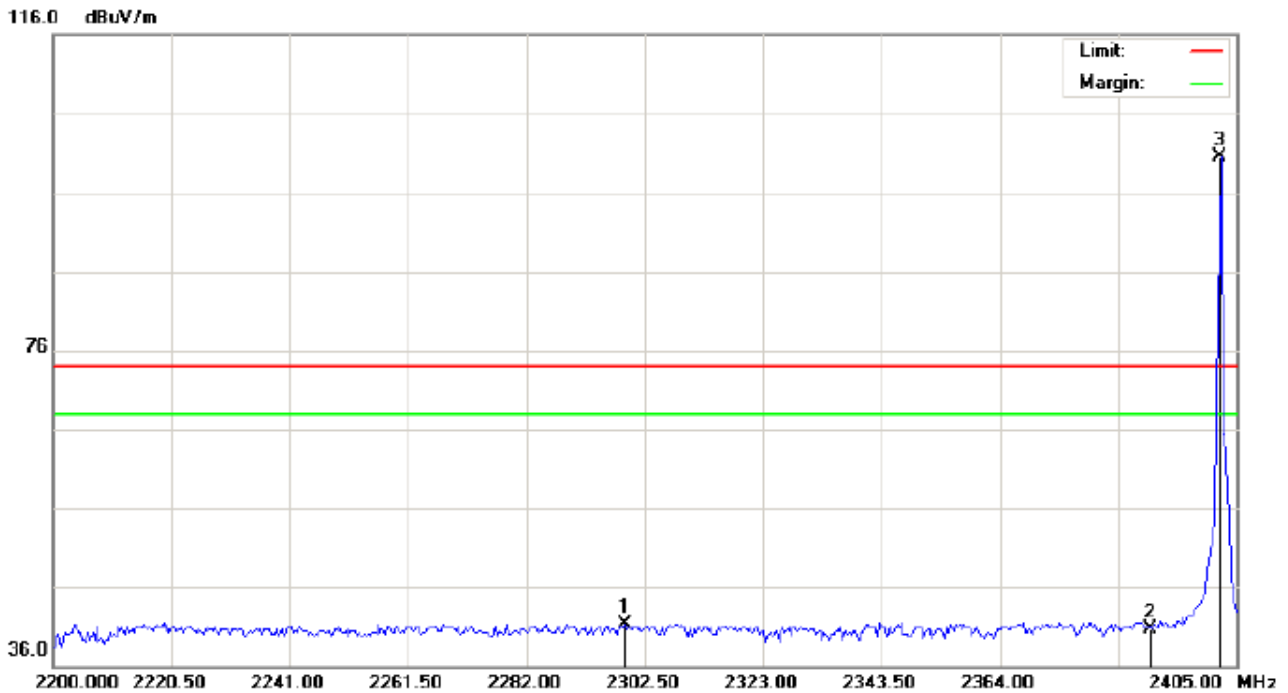
M/N: TTS

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2289.175	31.69	10.20	41.89	74.00	-32.11	peak			
2		2390.000	31.12	10.31	41.43	74.00	-32.57	peak			
3	*	2402.000	90.41	10.32	100.73	74.00	26.73	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Vertical



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

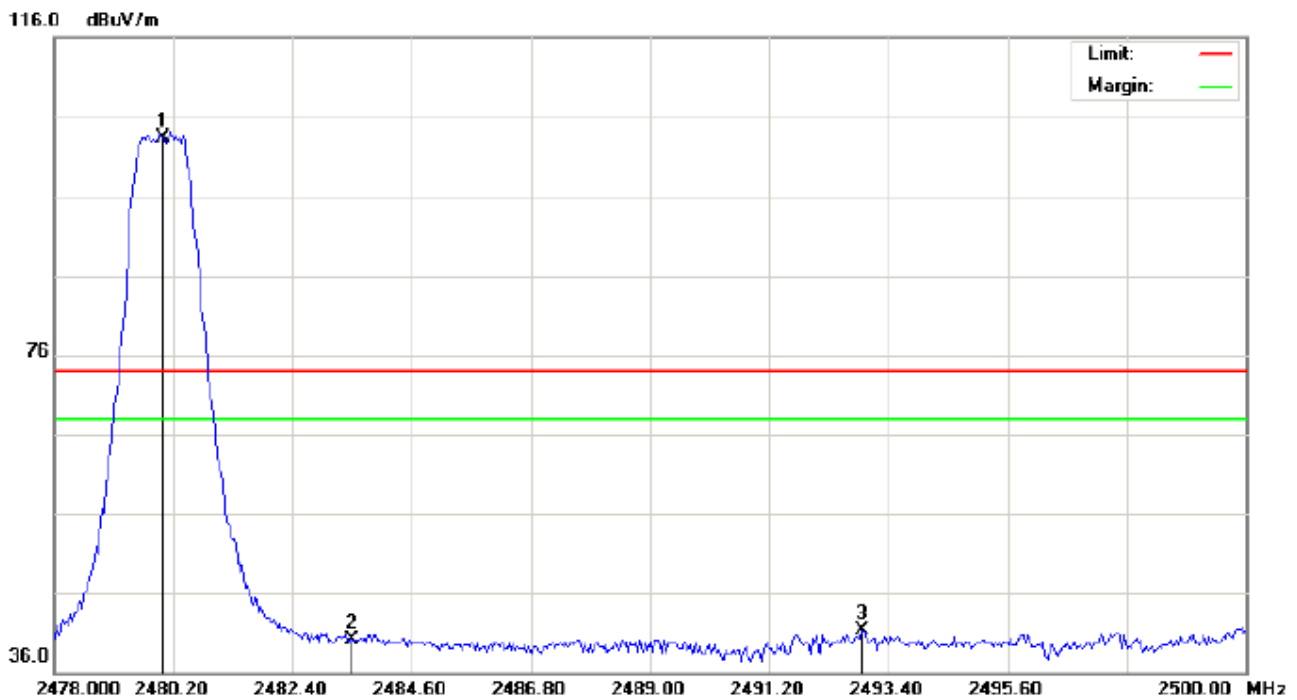
M/N: TTS

Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2299.083	31.08	10.21	41.29	74.00	-32.71	peak			
2		2390.000	30.35	10.31	40.66	74.00	-33.34	peak			
3	*	2402.000	90.26	10.32	100.58	74.00	26.58	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Horizontal



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

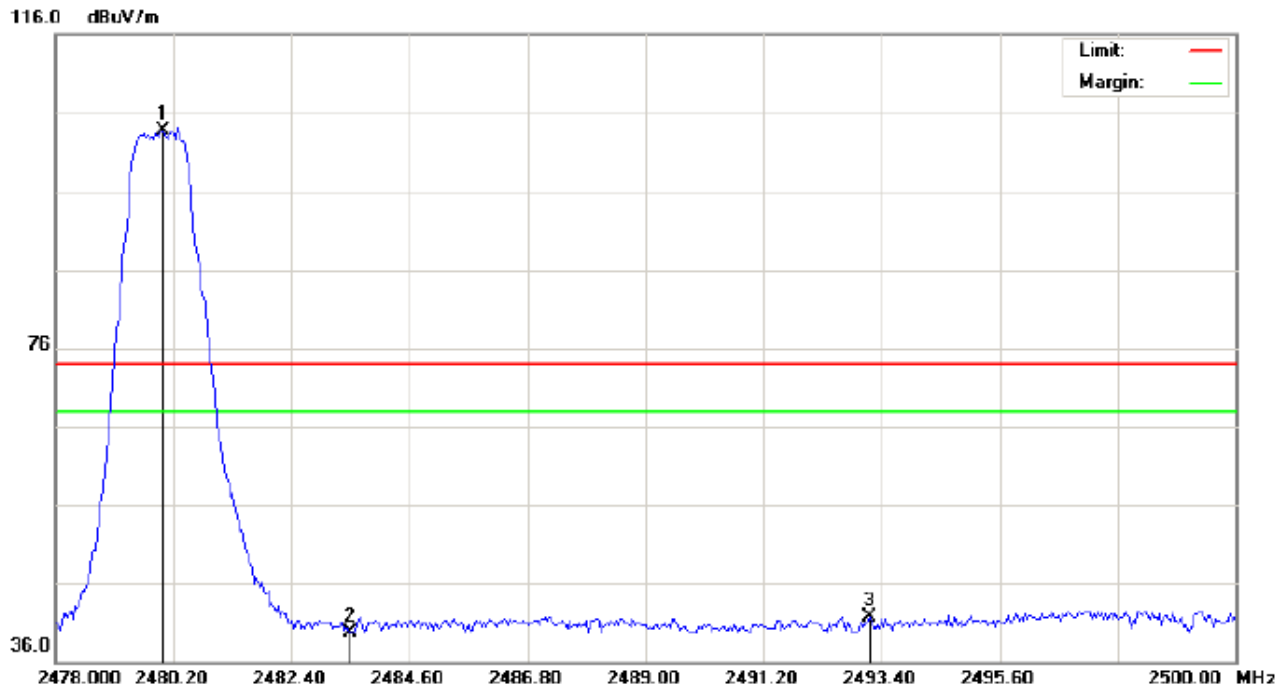
M/N: TTS

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	92.96	10.41	103.37	74.00	29.37	peak			
2		2483.500	29.75	10.41	40.16	74.00	-33.84	peak			
3		2492.923	30.84	10.42	41.26	74.00	-32.74	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Vertical



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Bluetooth intercom

Distance:

M/N: TTS

Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	93.35	10.41	103.76	74.00	29.76	peak			
2		2483.500	29.37	10.41	39.78	74.00	-34.22	peak			
3		2493.180	31.34	10.42	41.76	74.00	-32.24	peak			

RESULT: PASS**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
4. Set the Spectrum Analyzer as RBW $\geq$ 1%span, VBW $\geq$ RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

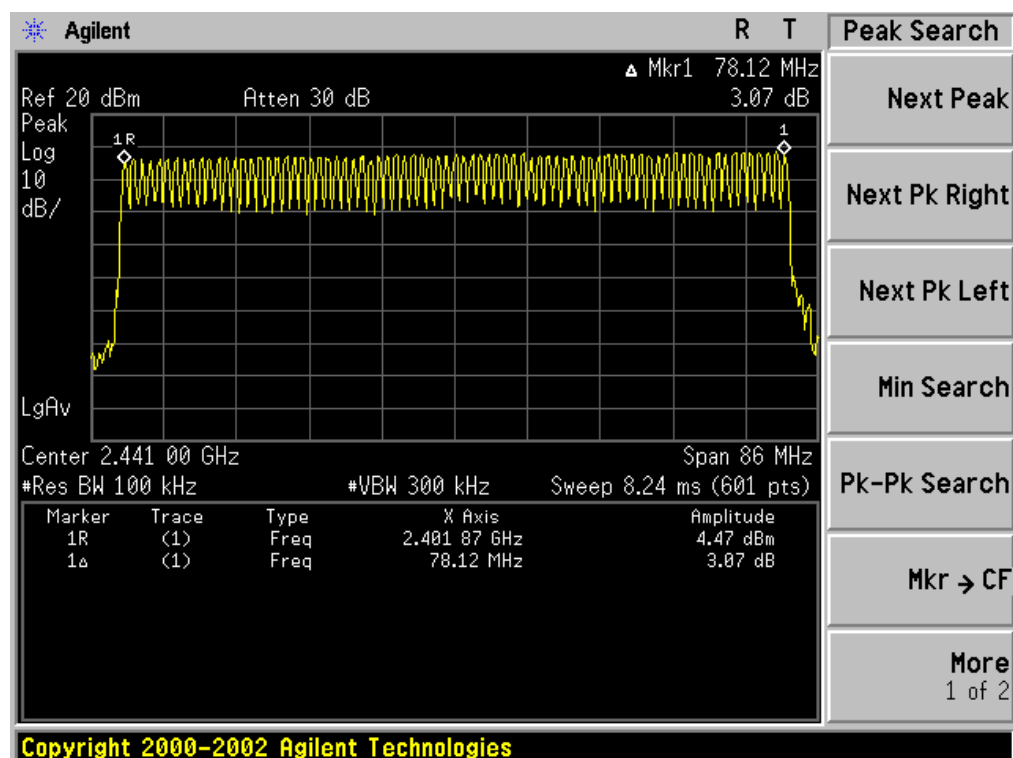
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	≥ 15	79	PASS

TEST PLOT FOR NO. OF TOTAL CHANNELS



13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set Span = zero span, centered on a hopping channel
4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

The Worst Case (3Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.901	31.6	309.44	400
Middle	2.901	31.6	309.44	400
High	2.901	31.6	309.44	400

Low Channel Time

$$2.901 \times (1600/6) / 79 \times 31.6 = 309.44 \text{ms}$$

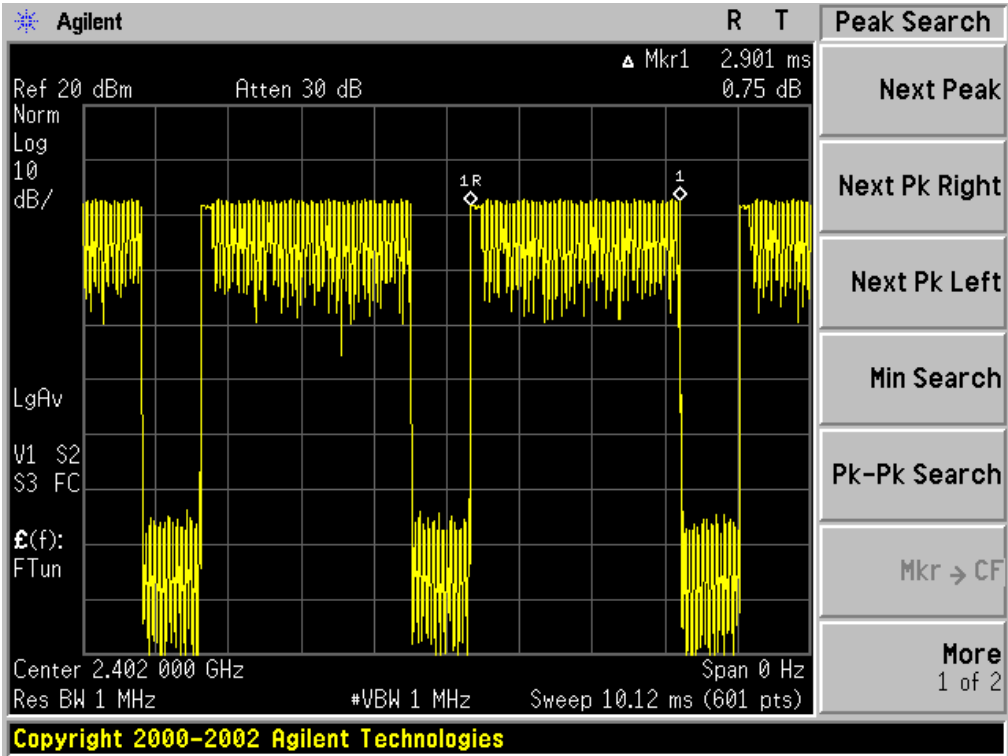
Middle Channel Time

$$2.901 \times (1600/6) / 79 \times 31.6 = 309.44 \text{ms}$$

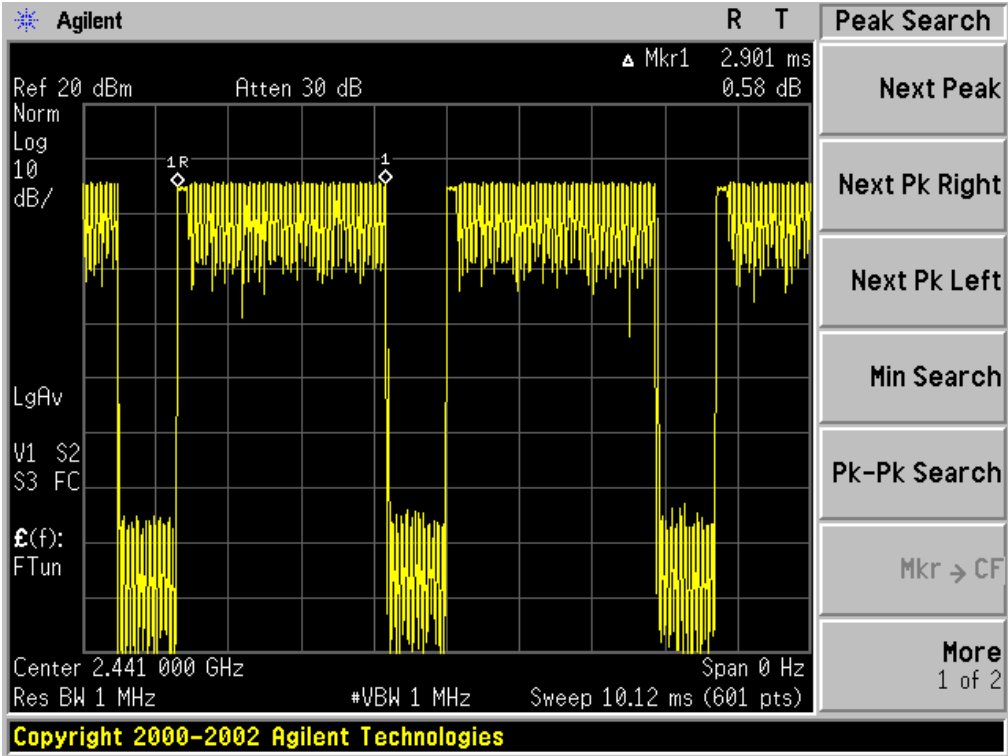
High Channel Time

$$2.901 \times (1600/6) / 79 \times 31.6 = 309.44 \text{ms}$$

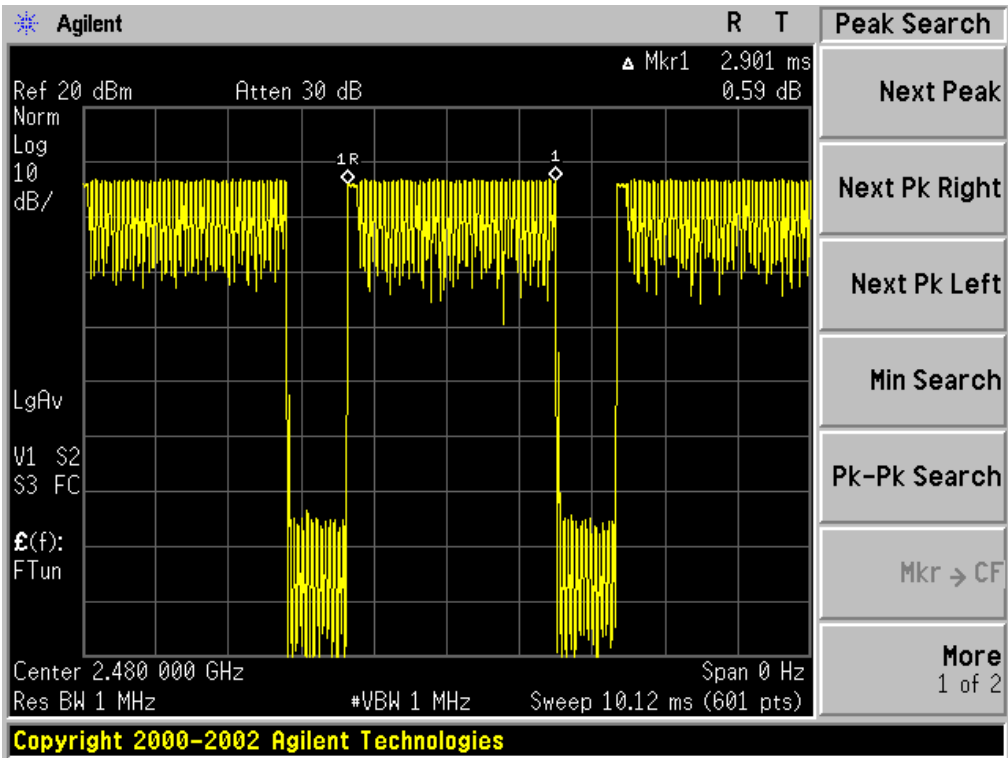
TEST PLOT OF LOW CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF HIGH CHANNEL



14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span Video (or Average) Bandwidth (VBW) $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

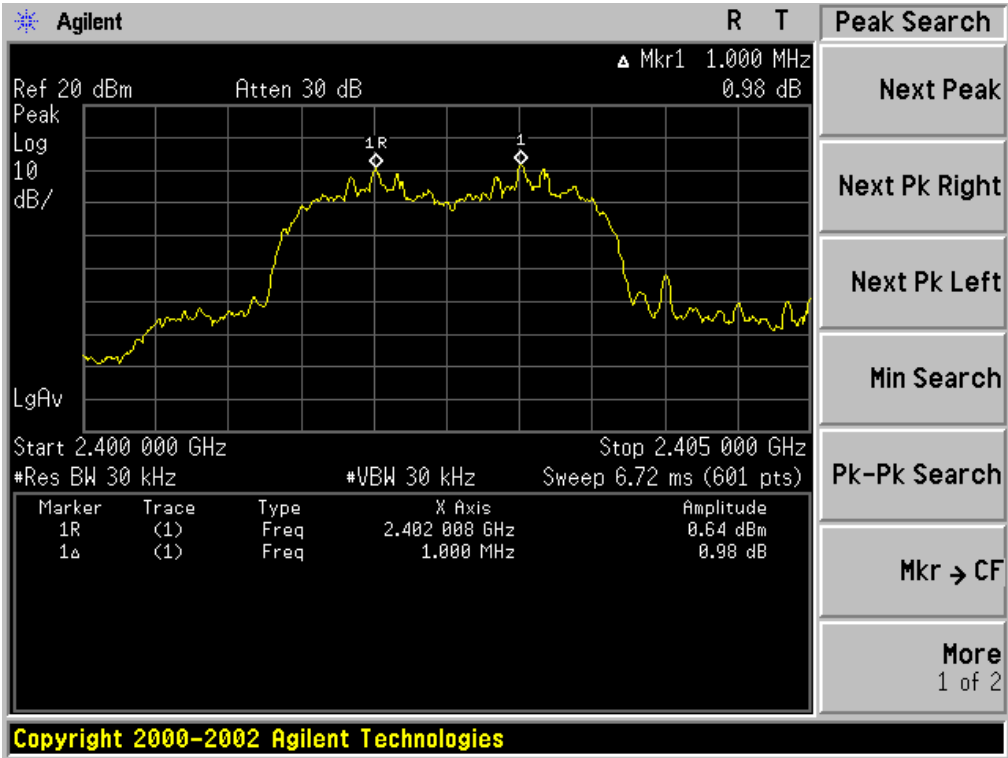
14.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH00-CH01	1000	≥ 25 KHz or 2/3 20 dB BW	Pass

TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



15. FCC LINE CONDUCTED EMISSION TEST

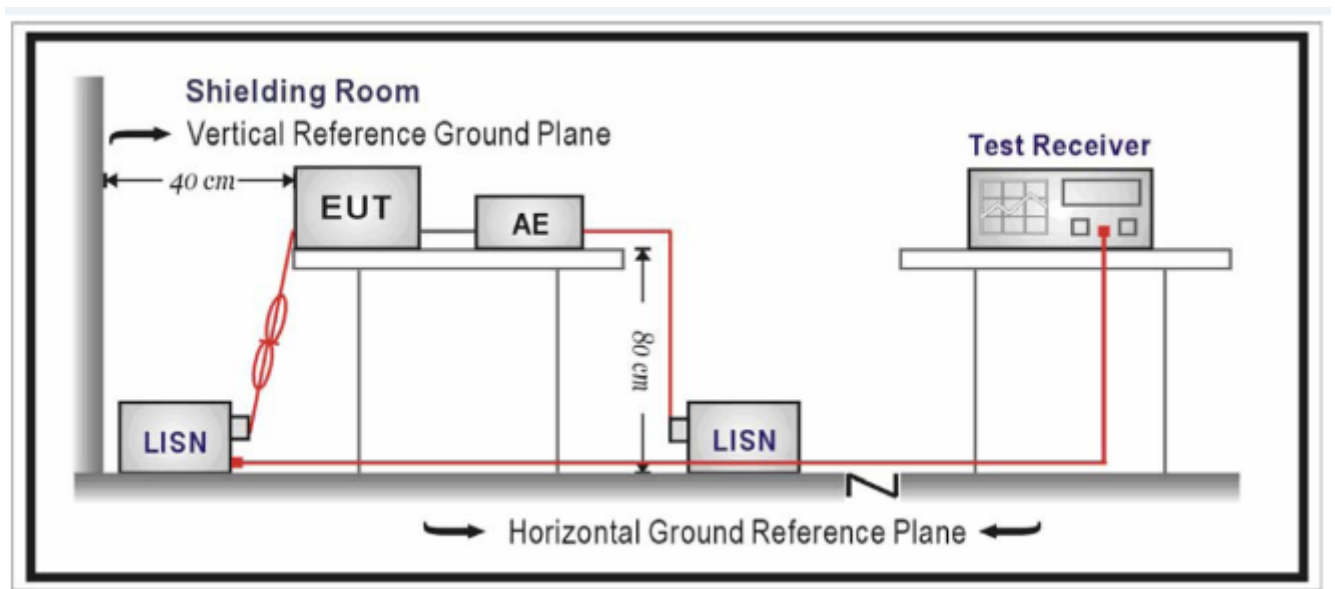
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by PC or by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

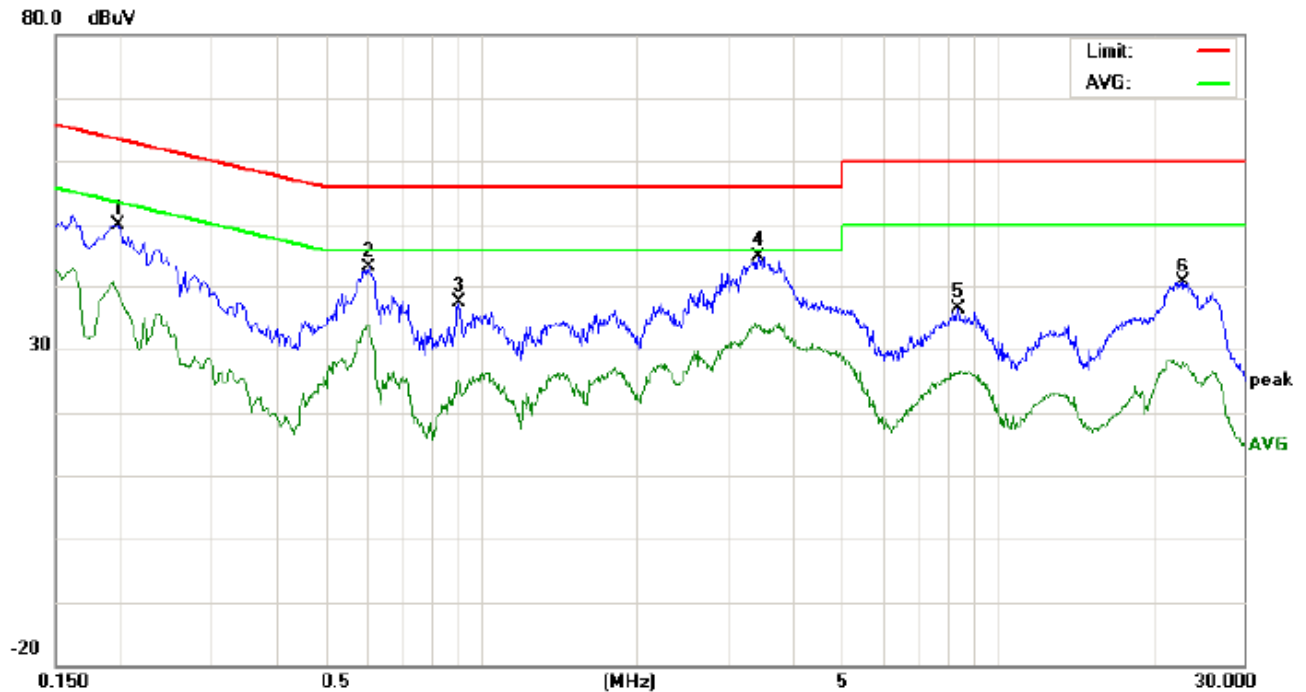
15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Worst Case (By Adapter)

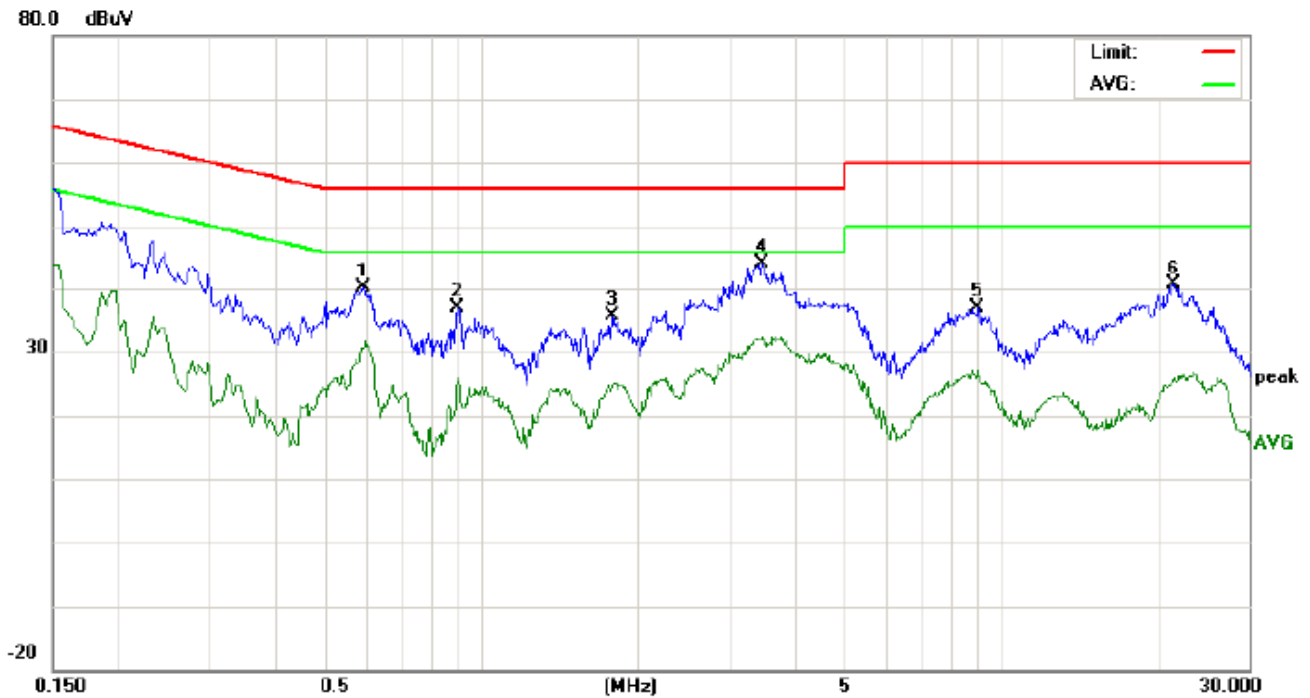
Line Conducted Emission Test Line 1-L



Site: Conduction Phase: **L1** Temperature: 24.8
Limit: FCC Class B Conduction(QP) Power: Humidity: 52.6 %
EUT: Bluetooth intercom
M/N: TTS
Mode: BT Link with charging
Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1985	39.64		28.21	10.21	49.85		38.42	63.67	53.67	-13.82	-15.25	P	
2	0.6060	32.87		23.57	10.31	43.18		33.88	56.00	46.00	-12.82	-12.12	P	
3	0.9060	26.85		14.67	10.41	37.26		25.08	56.00	46.00	-18.74	-20.92	P	
4	3.4500	34.41		23.35	10.51	44.92		33.86	56.00	46.00	-11.08	-12.14	P	
5	8.4098	25.94		15.84	10.34	36.28		26.18	60.00	50.00	-23.72	-23.82	P	
6	22.9940	30.44		17.77	10.11	40.55		27.88	60.00	50.00	-19.45	-22.12	P	

Line Conducted Emission Test Line 2-N



Site: Conduction

Phase: *N*

Temperature: 24.8

Limit: FCC Class B Conduction(QP)

Power:

Humidity: 52.6 %

EUT: Bluetooth intercom

M/N: TTS

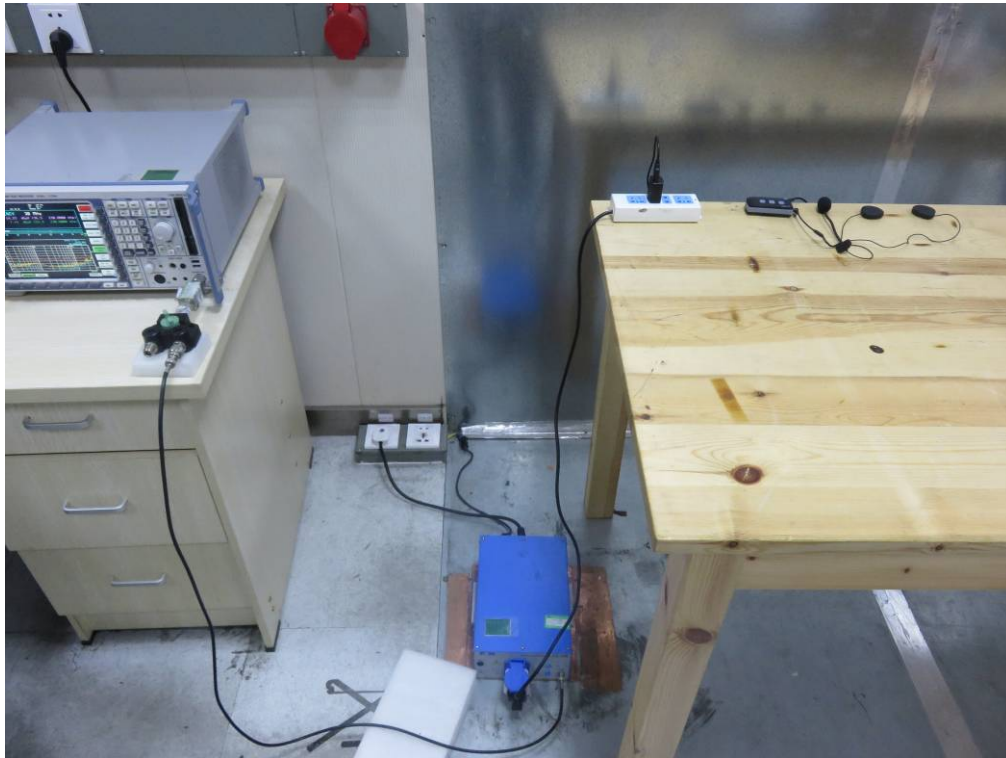
Mode: BT Link with charging

Note:

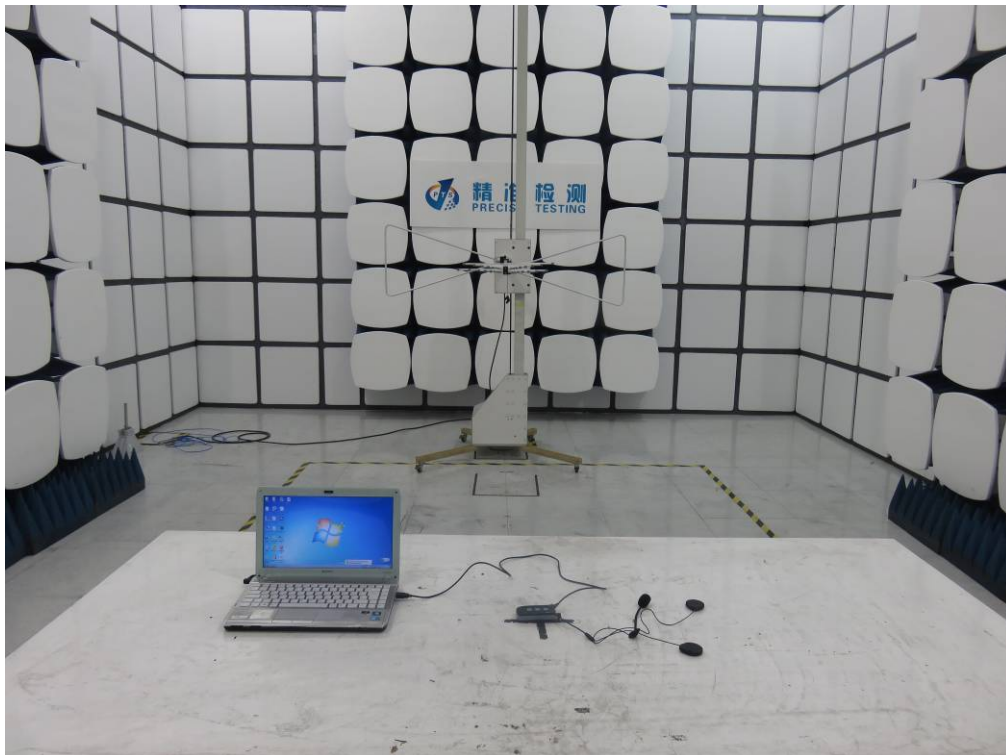
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.5940	29.69		20.38	10.32	40.01		30.70	56.00	46.00	-15.99	-15.30	P	
2	0.9020	26.47		15.38	10.41	36.88		25.79	56.00	46.00	-19.12	-20.21	P	
3	1.7820	25.33		14.32	10.29	35.62		24.61	56.00	46.00	-20.38	-21.39	P	
4	3.4540	33.74		21.82	10.51	44.25		32.33	56.00	46.00	-11.75	-13.67	P	
5	9.0539	26.61		16.92	10.23	36.84		27.15	60.00	50.00	-23.16	-22.85	P	
6	21.4100	30.53		15.17	10.13	40.66		25.30	60.00	50.00	-19.34	-24.70	P	

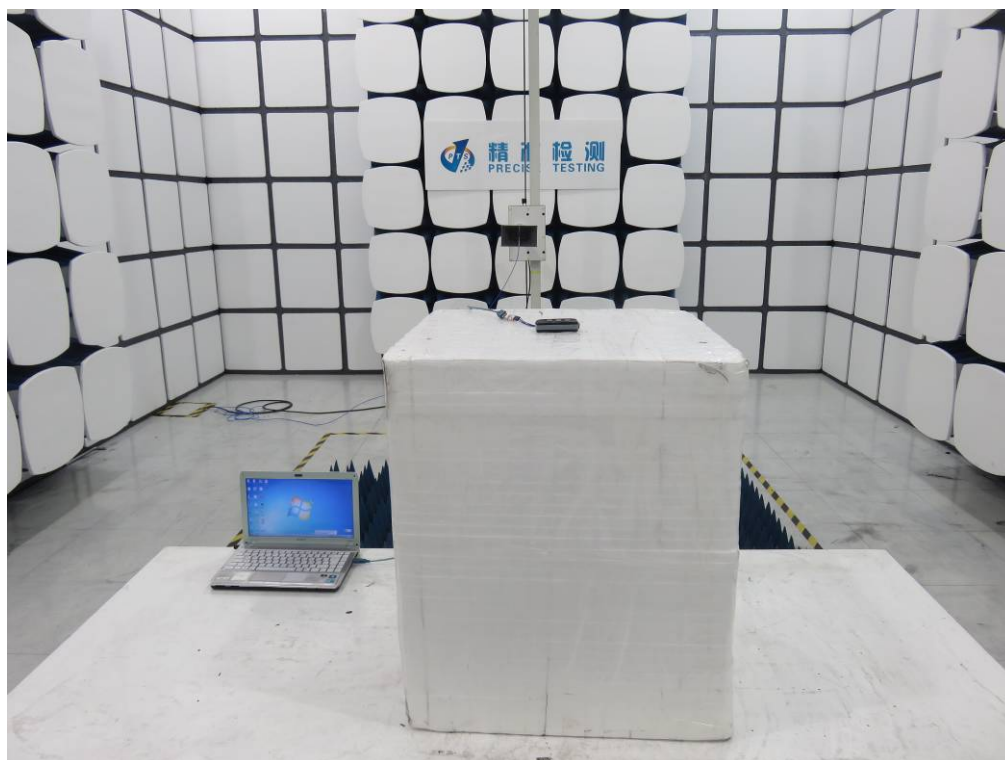
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP





APPENDIX B: PHOTOGRAPHS OF EUT

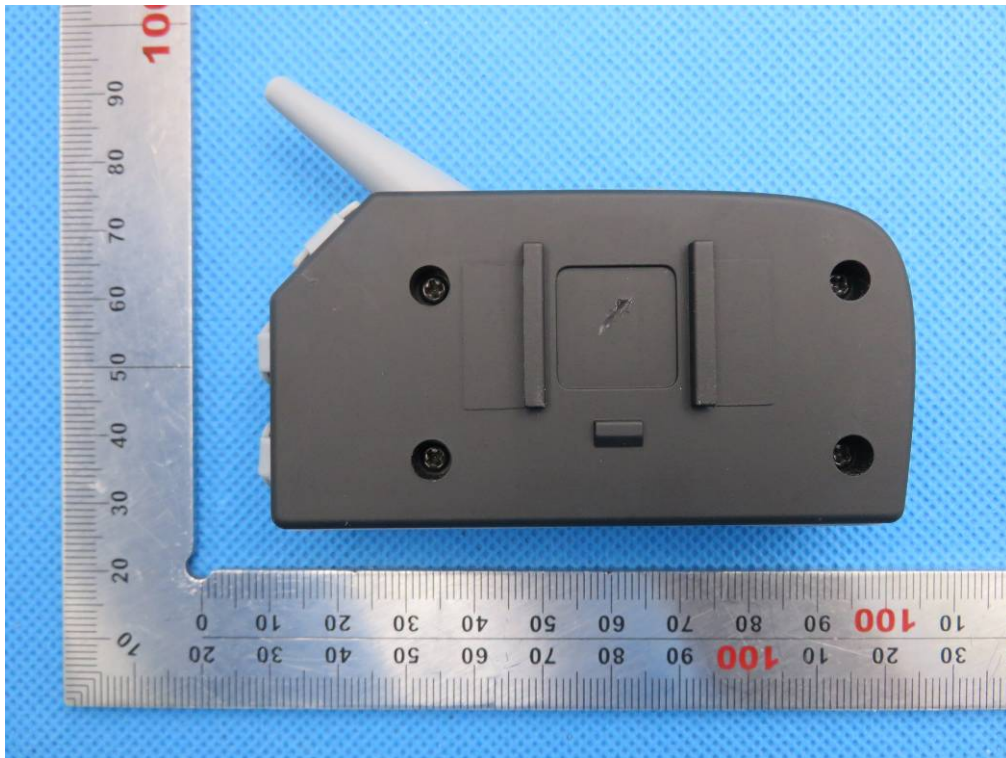
TOTAL VIEW OF EUT



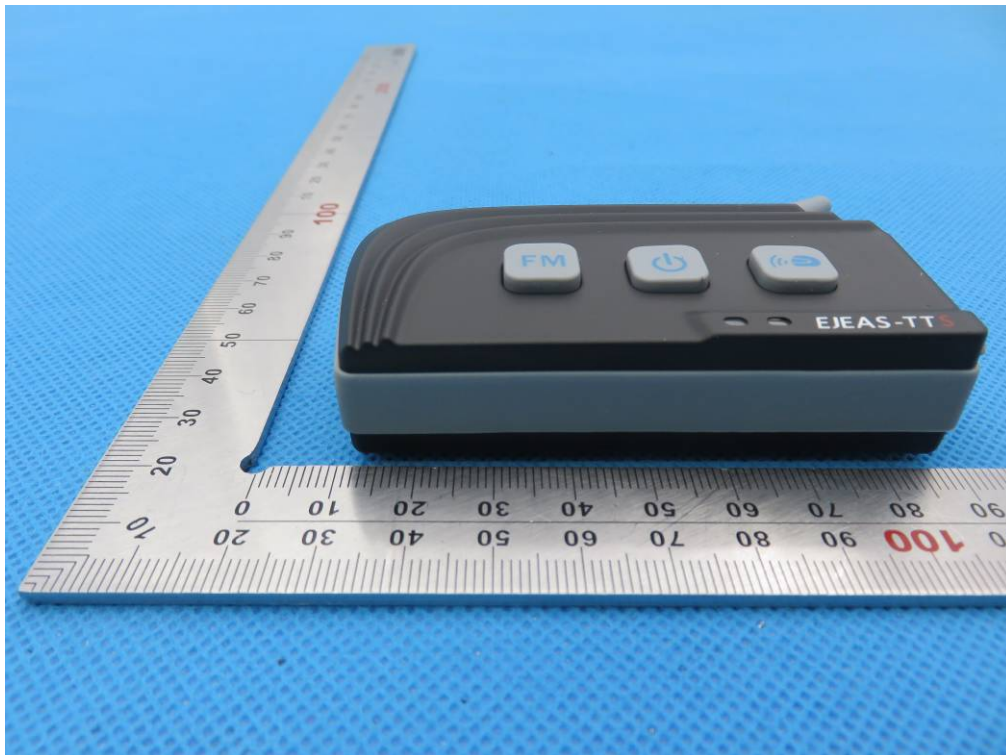
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



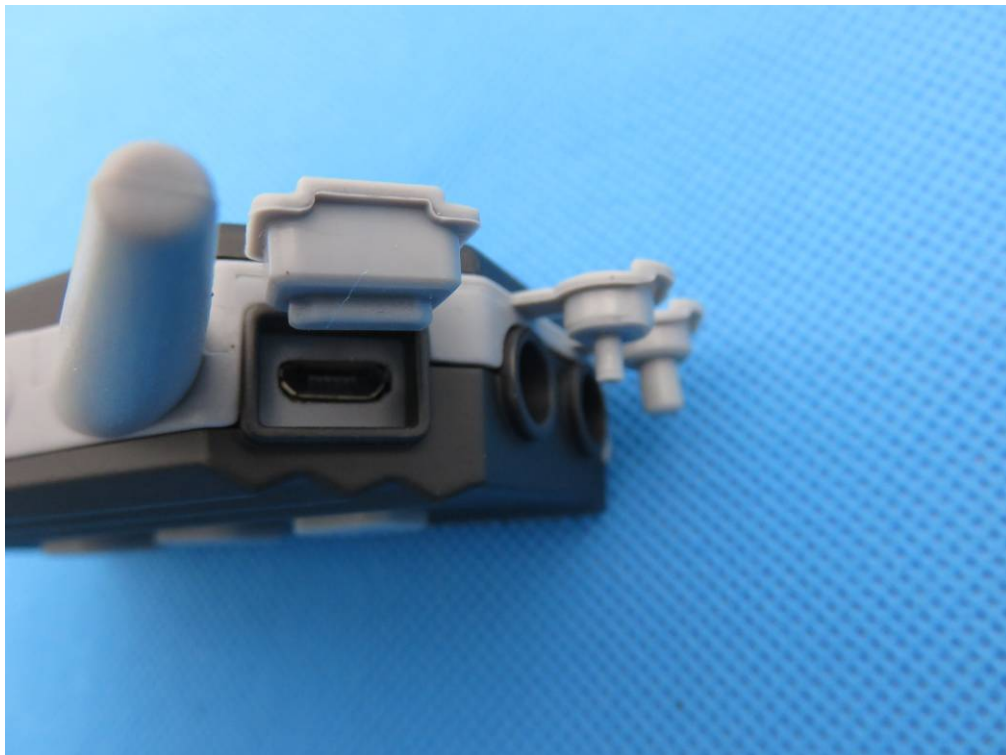
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



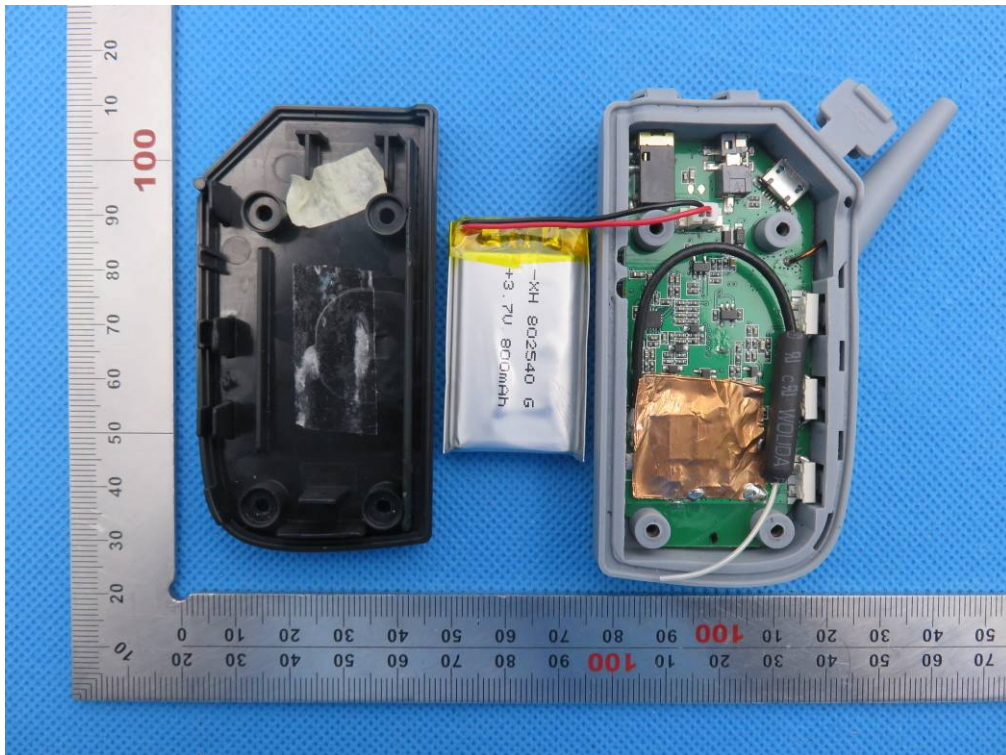
VIEW OF EUT (USB Port)



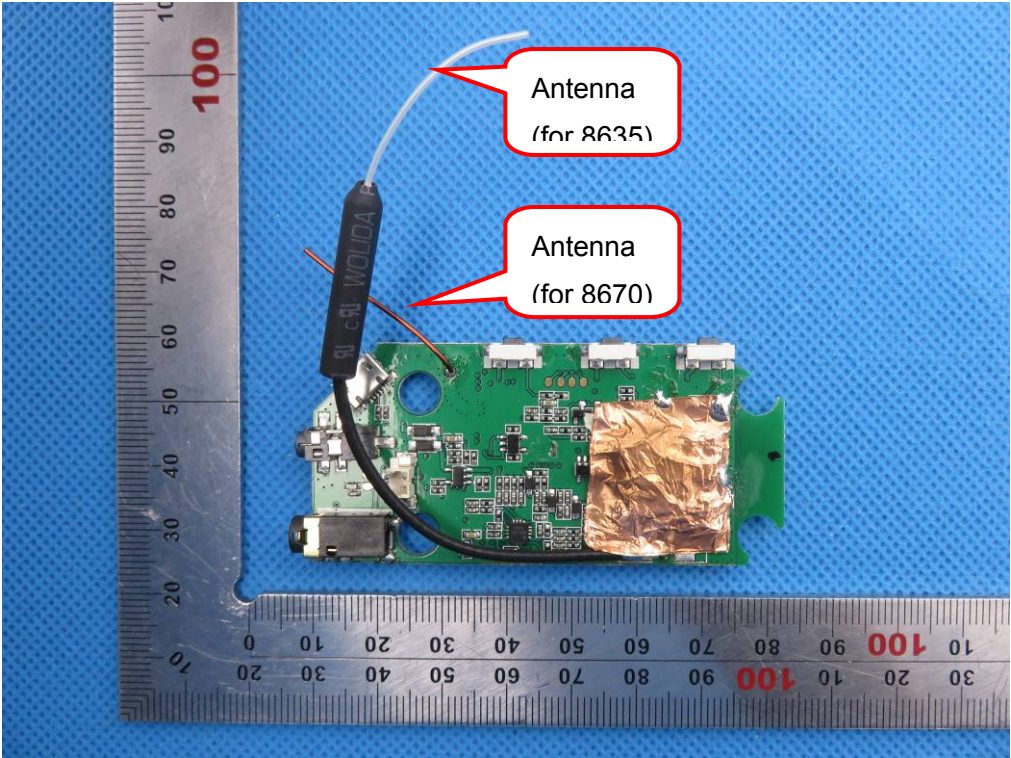
VIEW OF EUT (Audio Port)



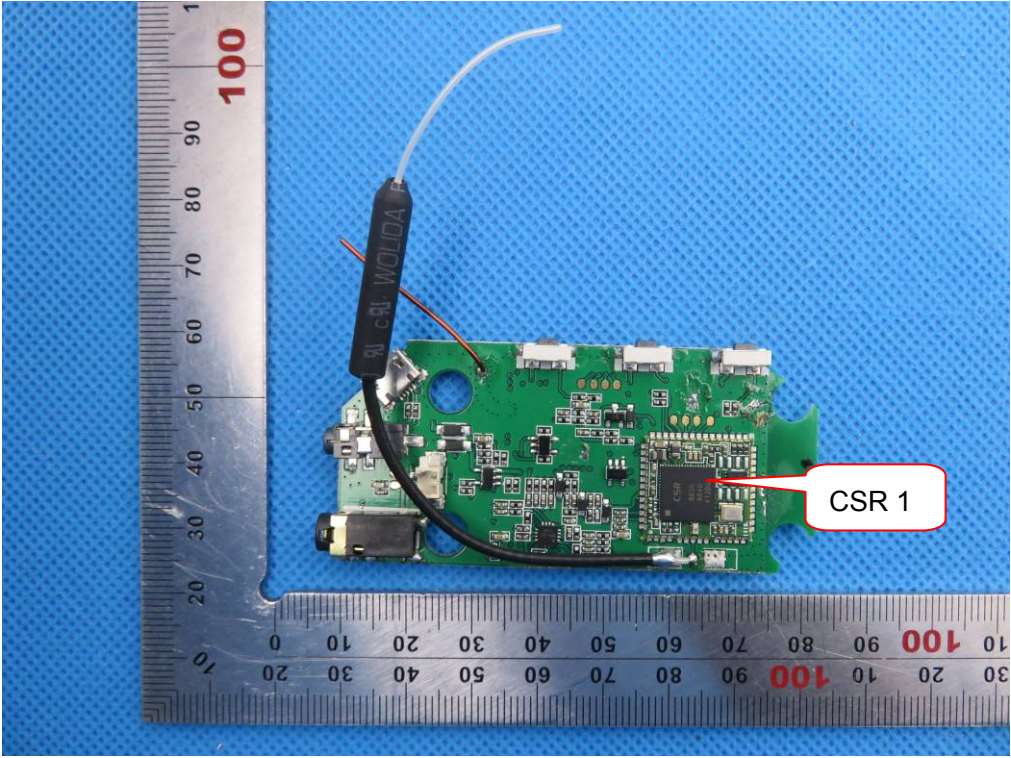
OPEN VIEW OF EUT



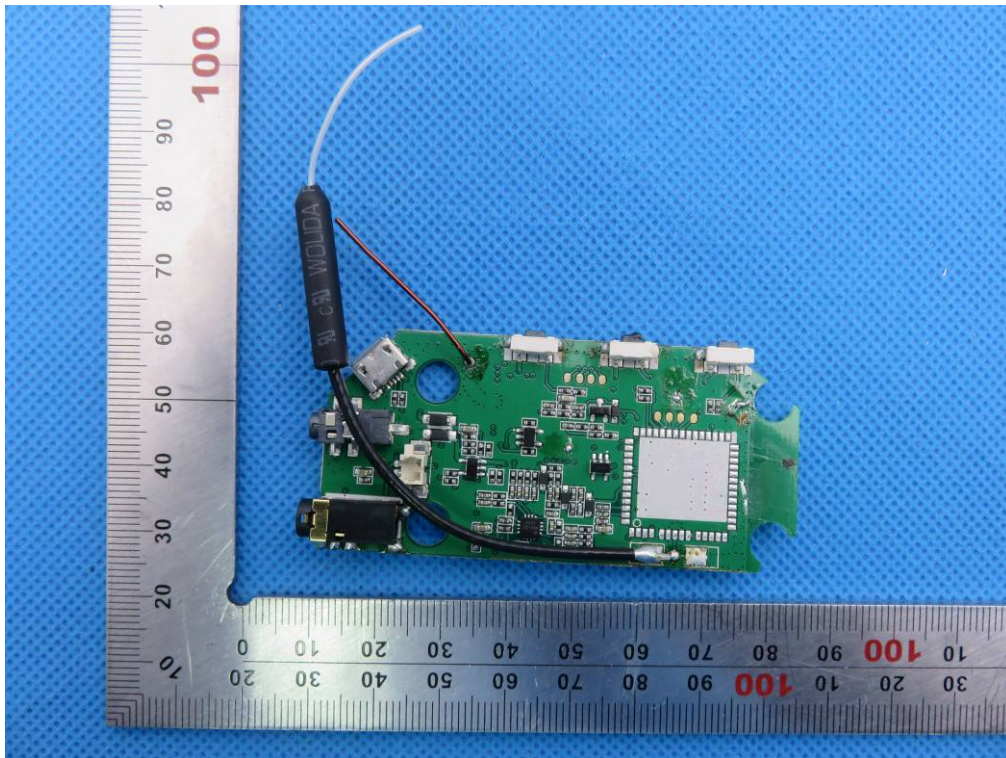
INTERNAL VIEW OF EUT-1



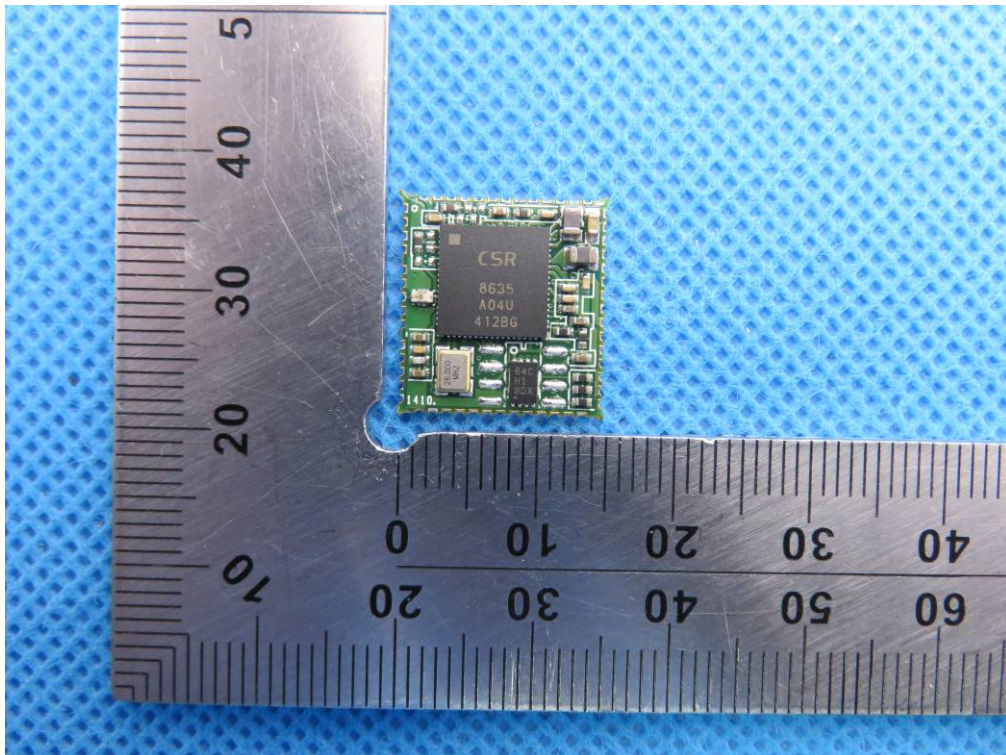
INTERNAL VIEW OF EUT-2(8635)



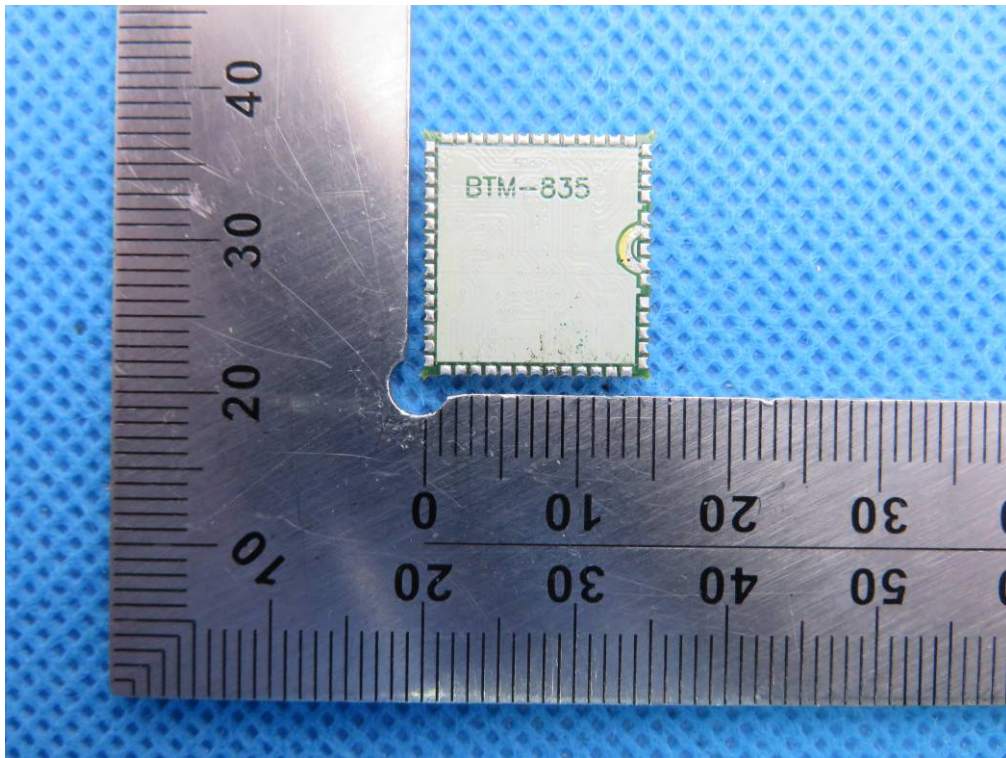
INTERNAL VIEW OF EUT-3(8635)



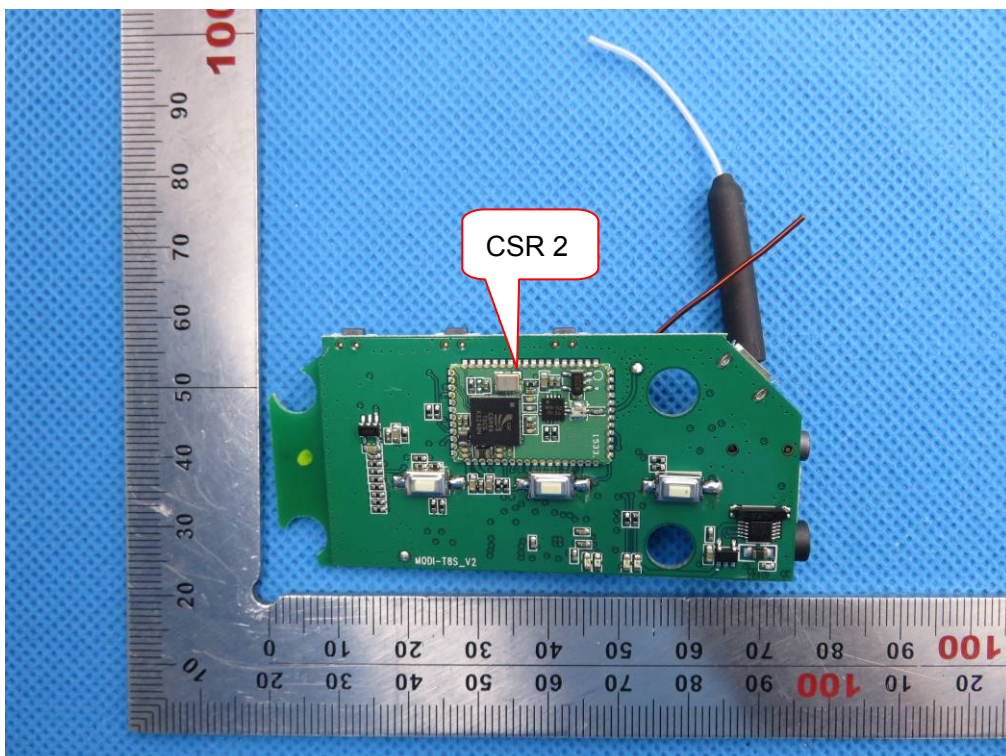
INTERNAL VIEW OF EUT-4(8635)



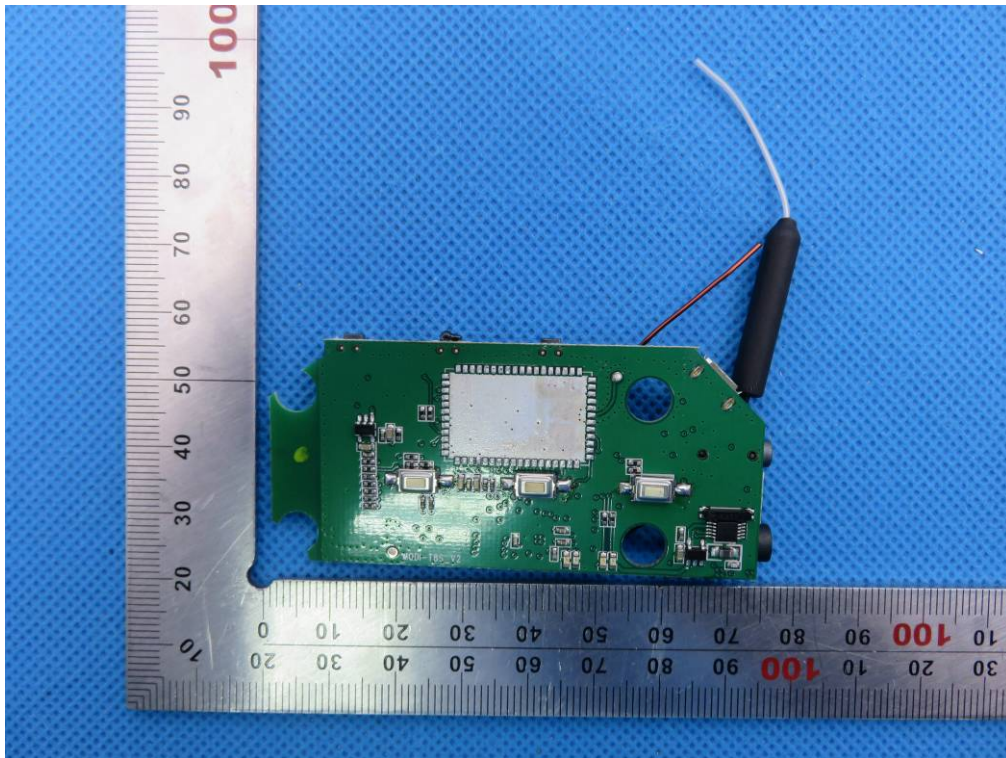
INTERNAL VIEW OF EUT-5(8635)



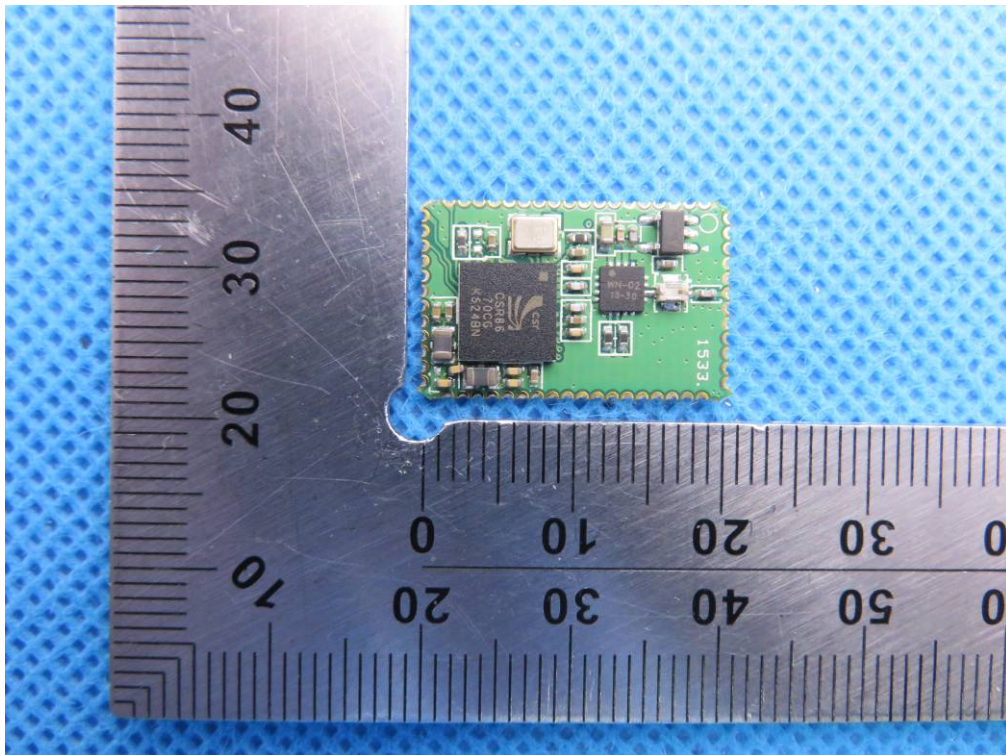
INTERNAL VIEW OF EUT-6(8670)



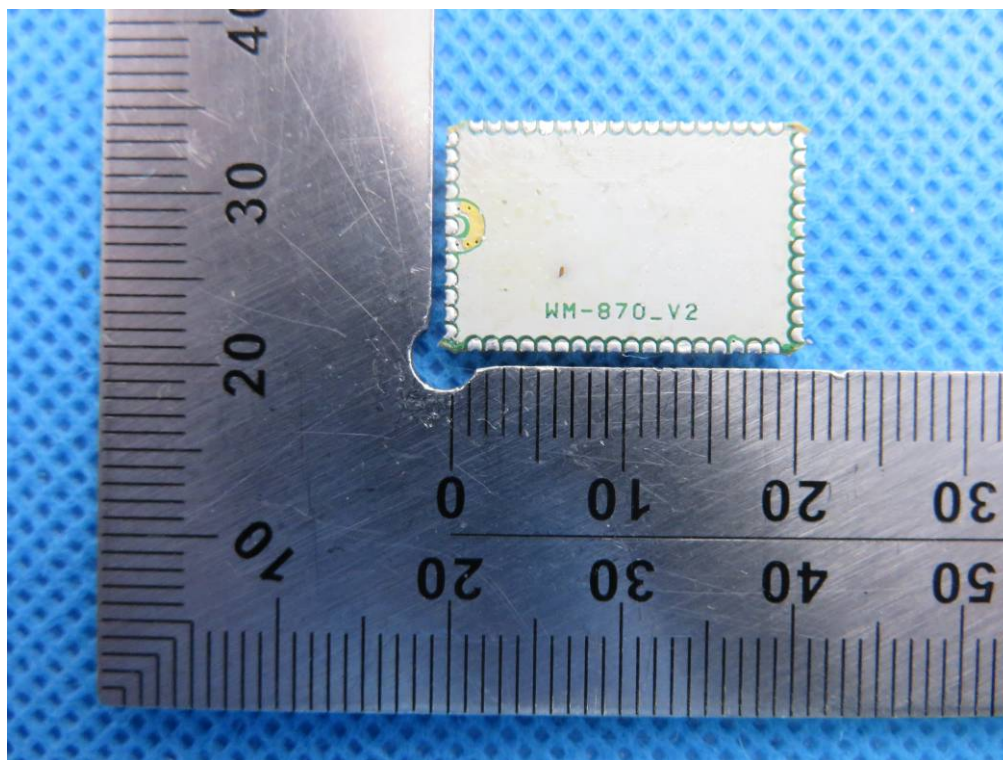
INTERNAL VIEW OF EUT-7(8670)



INTERNAL VIEW OF EUT-8(8670)



INTERNAL VIEW OF EUT-9(8670)



----END OF REPORT----