

# FCC Test Report

Product Name	Bluetooth Ring Scanner
Model No.	8670
FCC ID.	HD5-8670

Applicant	Honeywell International Inc
Address	9680 Old Bailes Rd Fort Mill South Carolina 29707 United States

Date of Receipt	Feb. 18, 2016
Issued Date	Mar. 09, 2016
Report No.	1620291R-RFUSP01V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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# Test Report

Issued Date: Mar. 09, 2016

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Applicant	Honeywell International Inc
Address	9680 Old Bailes Rd Fort Mill South Carolina 29707 United States
Manufacturer	Honeywell International Inc
Model No.	8670
FCC ID.	HD5-8670
EUT Rated Voltage	DC3.7V by battery
EUT Test Voltage	DC3.7V by battery
Trade Name	Honeywell
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014 ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

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## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Bluetooth Ring Scanner
Trade Name	Honeywell
Model No.	8670
FCC ID.	HD5-8670
Frequency Range	2402 – 2480MHz
Channel Number	79
Type of Modulation	FHSS: GFSK(1Mbps) / $\pi$ /4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	Chip Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	TAIYO YUDEN	AH 083F245001	Chip Antenna	1.8dBi for 2.4 GHz

Note:

1. The antenna of EUT is conform to FCC 15.203.

Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00:	2402 MHz	Channel 20:	2422 MHz	Channel 40:	2442 MHz	Channel 60:	2462 MHz
Channel 01:	2403 MHz	Channel 21:	2423 MHz	Channel 41:	2443 MHz	Channel 61:	2463 MHz
Channel 02:	2404 MHz	Channel 22:	2424 MHz	Channel 42:	2444 MHz	Channel 62:	2464 MHz
Channel 03:	2405 MHz	Channel 23:	2425 MHz	Channel 43:	2445 MHz	Channel 63:	2465 MHz
Channel 04:	2406 MHz	Channel 24:	2426 MHz	Channel 44:	2446 MHz	Channel 64:	2466 MHz
Channel 05:	2407 MHz	Channel 25:	2427 MHz	Channel 45:	2447 MHz	Channel 65:	2467 MHz
Channel 06:	2408 MHz	Channel 26:	2428 MHz	Channel 46:	2448 MHz	Channel 66:	2468 MHz
Channel 07:	2409 MHz	Channel 27:	2429 MHz	Channel 47:	2449 MHz	Channel 67:	2469 MHz
Channel 08:	2410 MHz	Channel 28:	2430 MHz	Channel 48:	2450 MHz	Channel 68:	2470 MHz
Channel 09:	2411 MHz	Channel 29:	2431 MHz	Channel 49:	2451 MHz	Channel 69:	2471 MHz
Channel 10:	2412 MHz	Channel 30:	2432 MHz	Channel 50:	2452 MHz	Channel 70:	2472 MHz
Channel 11:	2413 MHz	Channel 31:	2433 MHz	Channel 51:	2453 MHz	Channel 71:	2473 MHz
Channel 12:	2414 MHz	Channel 32:	2434 MHz	Channel 52:	2454 MHz	Channel 72:	2474 MHz
Channel 13:	2415 MHz	Channel 33:	2435 MHz	Channel 53:	2455 MHz	Channel 73:	2475 MHz
Channel 14:	2416 MHz	Channel 34:	2436 MHz	Channel 54:	2456 MHz	Channel 74:	2476 MHz
Channel 15:	2417 MHz	Channel 35:	2437 MHz	Channel 55:	2457 MHz	Channel 75:	2477 MHz
Channel 16:	2418 MHz	Channel 36:	2438 MHz	Channel 56:	2458 MHz	Channel 76:	2478 MHz
Channel 17:	2419 MHz	Channel 37:	2439 MHz	Channel 57:	2459 MHz	Channel 77:	2479 MHz
Channel 18:	2420 MHz	Channel 38:	2440 MHz	Channel 58:	2460 MHz	Channel 78:	2480 MHz
Channel 19:	2421 MHz	Channel 39:	2441 MHz	Channel 59:	2461 MHz		

Note:

1. The EUT is a Bluetooth Ring Scanner with a built-in Bluetooth transceiver.
2. These tests were conducted on a sample for the purpose of demonstrating compliance of Bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
5. Bluetooth operation was evaluated at both 1Mb/s and 3Mb/s data rates. 2Mb/s data rate was found, through pre-testing, to produce emissions similar to those for 3Mb/s.

Test Mode	Mode 1: Transmit - 1Mbps (GFSK)
	Mode 2: Transmit - 3Mbps (8DPSK)

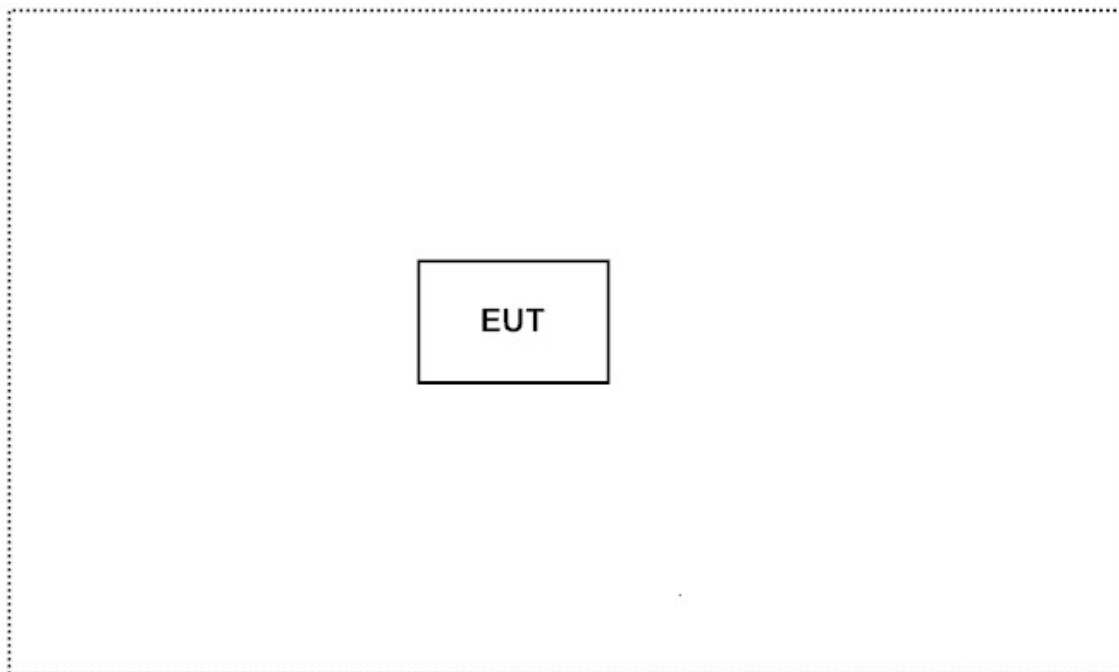
### 1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
N/A				

Signal Cable Type	Signal cable Description
N/A	

### 1.4. Configuration of Tested System



### 1.5. EUT Exercise Software

- (1) Setup the EUT and simulators as shown on 1.4
- (2) Enable the Bluetooth function of the EUT.
- (3) The Bluetooth simulator (MT8852B) uses in controlling EUT to transmit continuously.
- (4) Verify that the EUT works properly.

## 1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	30-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site: <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site: <http://www.quietek.com/>

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FCC Accreditation Number: TW1014



## 2. Conducted Emission

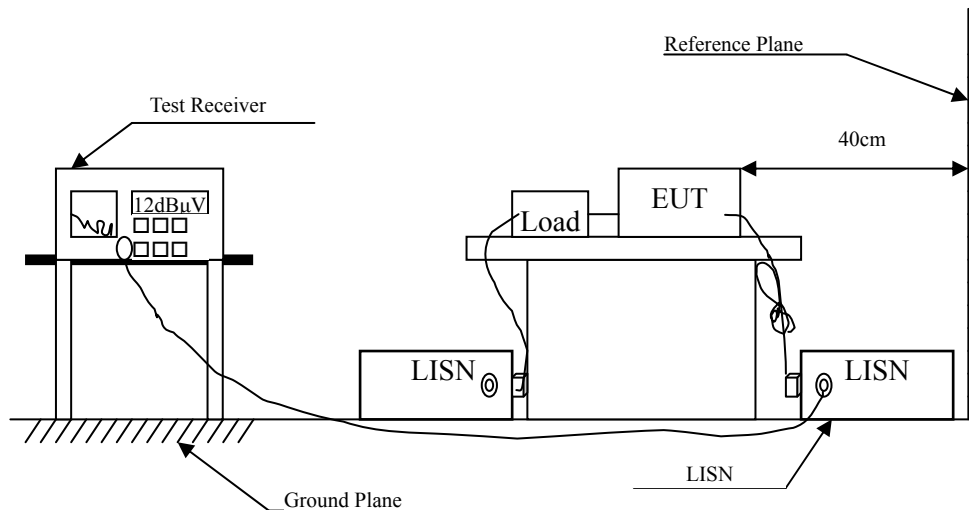
### 2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2016	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

### 2.2. Test Setup



### 2.3. Limits

<b>FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit</b>		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

### 2.4. Test Procedure

The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

### 2.5. Uncertainty

± 2.26 dB

## **2.6. Test Result of Conducted Emission**

The EUT is powered by batteries Owing to the DC operation. This test item is not performed

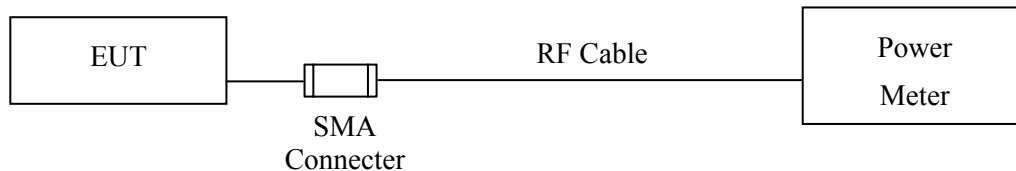
### 3. Peak Power Output

#### 3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015

Note: 1. All equipments are calibrated every one year.  
2. The test instruments marked by “X” are used to measure the final test results.

#### 3.2. Test Setup



#### 3.3. Limit

The maximum peak power shall be less 1Watt.

#### 3.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

#### 3.5. Uncertainty

$\pm 1.27$  dB

### 3.6. Test Result of Peak Power Output

Product : Bluetooth Ring Scanner  
Test Item : Peak Power Output  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402.00	3.12	1 Watt= 30 dBm	Pass
Channel 39	2441.00	1.90	1 Watt= 30 dBm	Pass
Channel 78	2480.00	0.93	1 Watt= 30 dBm	Pass

Product : Bluetooth Ring Scanner  
Test Item : Peak Power Output  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402.00	3.88	1 Watt= 30 dBm	Pass
Channel 39	2441.00	2.36	1 Watt= 30 dBm	Pass
Channel 78	2480.00	1.38	1 Watt= 30 dBm	Pass

#### 4. Radiated Emission

##### 4.1. Test Equipment

The following test equipments are used during the radiated emission test:

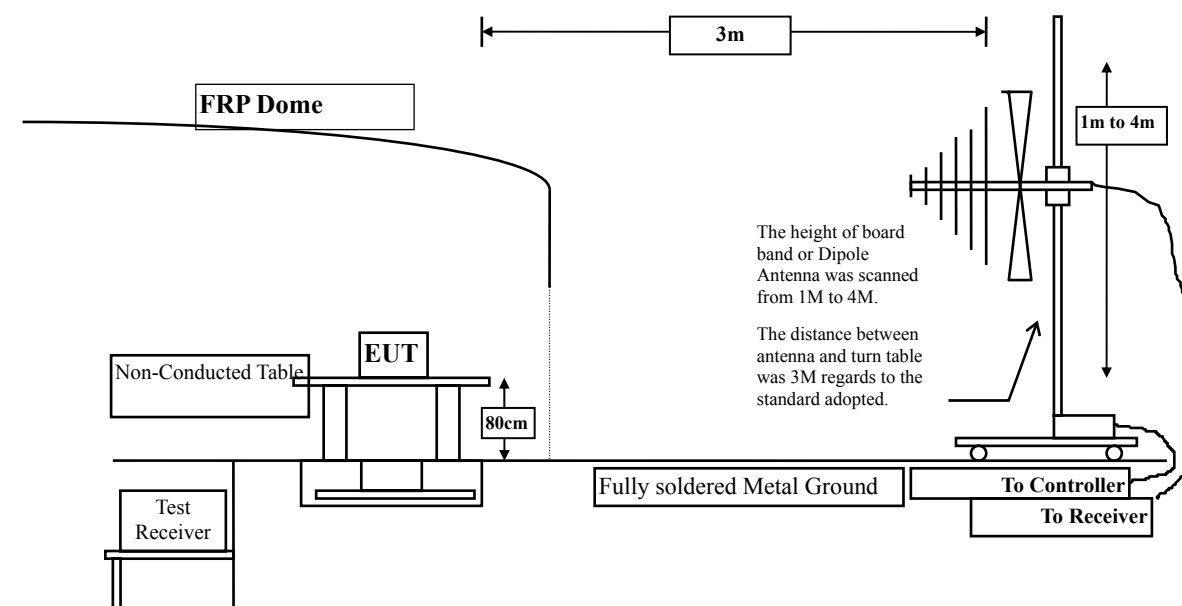
Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

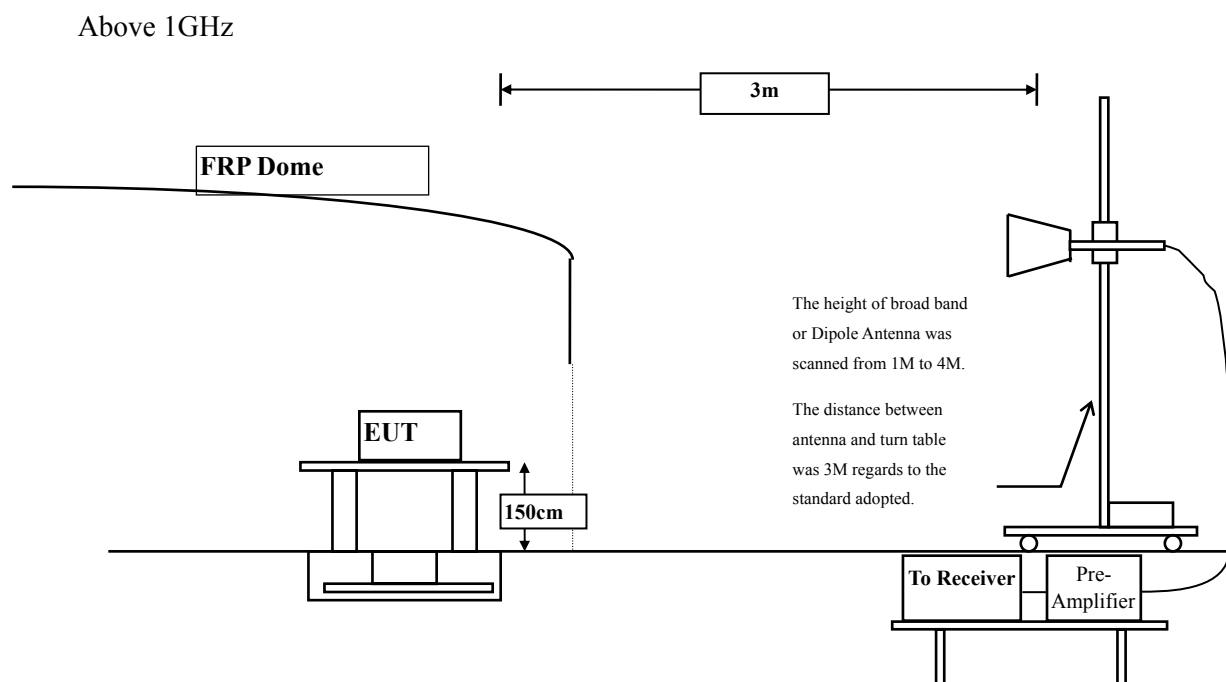
Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	X Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	X Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	X Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.  
2. The test instruments marked with "X" are used to measure the final test results.

##### 4.2. Test Setup

Below 1GHz





### 4.3. Limits

#### ➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBμV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks:
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



#### 4.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.249 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

#### 4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

#### 4.6. Test Result of Radiated Emission

Product : Bluetooth Ring Scanner  
Test Item : Harmonic Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2402MHz)

Frequency MHz	Correct Factor dB	Reading Level dB $\mu$ V	Measurement Level dB $\mu$ V/m	Margin dB	Limit dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4804.000	0.269	58.530	58.799	-15.201	74.000
7206.000	5.710	39.270	44.980	-29.020	74.000
9608.000	11.093	39.670	50.763	-23.237	74.000
<b>Average Detector:</b>					
4804.000	0.269	40.760	41.029	-12.971	54.000
<b>Vertical</b>					
<b>Peak Detector:</b>					
4804.000	11.304	55.330	66.634	-7.366	74.000
7206.000	12.848	38.570	51.417	-22.583	74.000
9608.000	14.864	38.260	53.123	-20.877	74.000
<b>Average Detector:</b>					
4804.000	11.304	38.050	49.354	-4.646	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Bluetooth Ring Scanner  
Test Item : Harmonic Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2441MHz)

Frequency MHz	Correct Factor dB	Reading Level dB $\mu$ V	Measurement Level dB $\mu$ V/m	Margin dB	Limit dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4882.000	0.147	61.500	61.646	-12.354	74.000
7323.000	5.882	38.420	44.302	-29.698	74.000
9764.000	12.070	38.630	50.699	-23.301	74.000
<b>Average Detector:</b>					
4882.000	0.147	48.270	48.416	-5.584	54.000
<b>Vertical</b>					
<b>Peak Detector:</b>					
4882.000	11.003	54.220	65.222	-8.778	74.000
7323.000	13.017	38.050	51.066	-22.934	74.000
9764.000	15.027	38.250	53.277	-20.723	74.000
<b>Average Detector:</b>					
4882.000	11.003	39.960	50.962	-3.038	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Bluetooth Ring Scanner  
Test Item : Harmonic Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4960.000	0.391	60.800	61.191	-12.809	74.000
7440.000	7.348	38.750	46.097	-27.903	74.000
9920.000	12.903	37.980	50.884	-23.116	74.000
<b>Average</b>					
<b>Detector:</b>					
4960.000	0.391	50.980	51.371	-2.629	54.000
<b>Vertical</b>					
<b>Peak Detector:</b>					
4960.000	11.068	53.930	64.997	-9.003	74.000
7440.000	13.849	37.660	51.508	-22.492	74.000
9920.000	15.048	37.150	52.198	-21.802	74.000
<b>Average</b>					
<b>Detector:</b>					
4960.000	11.068	41.560	52.627	-1.373	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Bluetooth Ring Scanner  
Test Item : Harmonic Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)(2402MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4804.000	0.269	52.990	53.259	-20.741	74.000
7206.000	5.710	38.010	43.720	-30.280	74.000
9608.000	11.093	38.130	49.223	-24.777	74.000
<b>Average</b>					
<b>Detector:</b>					
--					
<b>Vertical</b>					
<b>Peak Detector:</b>					
4804.000	11.304	49.340	60.644	-13.356	74.000
7206.000	12.848	38.540	51.387	-22.613	74.000
9608.000	14.864	38.160	53.023	-20.977	74.000
<b>Average</b>					
<b>Detector:</b>					
4804.000	11.304	31.250	42.554	-11.446	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Bluetooth Ring Scanner  
Test Item : Harmonic Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4882.000	0.147	56.860	57.006	-16.994	74.000
7323.000	5.882	37.860	43.742	-30.258	74.000
9764.000	12.070	37.800	49.869	-24.131	74.000
<b>Average</b>					
<b>Detector:</b>					
4882.000	0.147	34.810	34.956	-19.044	54.000
<b>Vertical</b>					
<b>Peak Detector:</b>					
4882.000	11.003	49.110	60.112	-13.888	74.000
7323.000	13.017	37.840	50.856	-23.144	74.000
9764.000	15.027	38.060	53.087	-20.913	74.000
<b>Average</b>					
<b>Detector:</b>					
4882.000	11.003	32.140	43.142	-10.858	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Bluetooth Ring Scanner  
Test Item : Harmonic Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

Frequency MHz	Correct Factor dB	Reading Level dB $\mu$ V	Measurement Level dB $\mu$ V/m	Margin dB	Limit dB $\mu$ V/m
<b>Horizontal</b>					
<b>Peak Detector:</b>					
4960.000	0.391	56.070	56.461	-17.539	74.000
7440.000	7.348	37.640	44.987	-29.013	74.000
9920.000	12.903	38.050	50.954	-23.046	74.000
<b>Average Detector:</b>					
4960.000	0.391	36.100	36.491	-17.509	54.000
<b>Vertical</b>					
<b>Peak Detector:</b>					
4960.000	11.068	49.890	60.957	-13.043	74.000
7440.000	13.849	37.840	51.688	-22.312	74.000
9920.000	15.048	38.140	53.188	-20.812	74.000
<b>Average Detector:</b>					
4960.000	11.068	33.650	44.717	-9.283	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Bluetooth Ring Scanner  
Test Item : General Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBμV	dBμV/m	dB	dBμV/m
<b>Horizontal</b>					
375.320	-1.209	23.224	22.015	-23.985	46.000
457.770	0.379	24.179	24.558	-21.442	46.000
606.180	4.666	19.795	24.461	-21.539	46.000
795.330	5.171	24.046	29.217	-16.783	46.000
858.380	5.972	23.519	29.491	-16.509	46.000
940.830	6.403	23.403	29.806	-16.194	46.000
<b>Vertical</b>					
81.410	-5.587	38.199	32.612	-7.388	40.000
343.310	-3.356	23.487	20.131	-25.869	46.000
384.050	-2.502	21.520	19.018	-26.982	46.000
498.510	-1.093	21.998	20.905	-25.095	46.000
690.570	2.519	21.628	24.147	-21.853	46.000
834.130	2.119	21.969	24.088	-21.912	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.



Product : Bluetooth Ring Scanner  
Test Item : General Radiated Emission  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB $\mu$ V	dB $\mu$ V/m	dB	dB $\mu$ V/m
<b>Horizontal</b>					
262.800	-5.013	23.362	18.349	-27.651	46.000
455.830	-0.493	22.751	22.258	-23.742	46.000
600.360	3.977	22.155	26.132	-19.868	46.000
776.900	4.183	23.542	27.725	-18.275	46.000
931.130	7.079	22.549	29.628	-16.372	46.000
999.030	8.757	23.106	31.863	-22.137	54.000
<b>Vertical</b>					
81.410	-5.587	36.736	31.149	-8.851	40.000
344.280	-3.171	23.384	20.214	-25.786	46.000
460.680	-3.221	21.101	17.880	-28.120	46.000
606.180	-1.594	20.473	18.879	-27.121	46.000
842.860	3.074	21.971	25.045	-20.955	46.000
966.050	8.000	21.238	29.238	-24.762	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

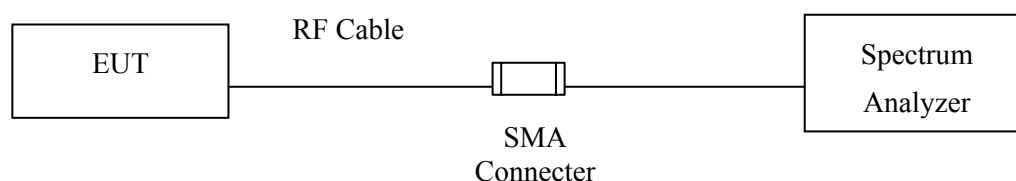
## 5. RF Antenna Conducted Test

### 5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.  
2. The test instruments Marked “X” are used to measure the final test results.

### 5.2. Test Setup



### 5.3. Limits

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### 5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

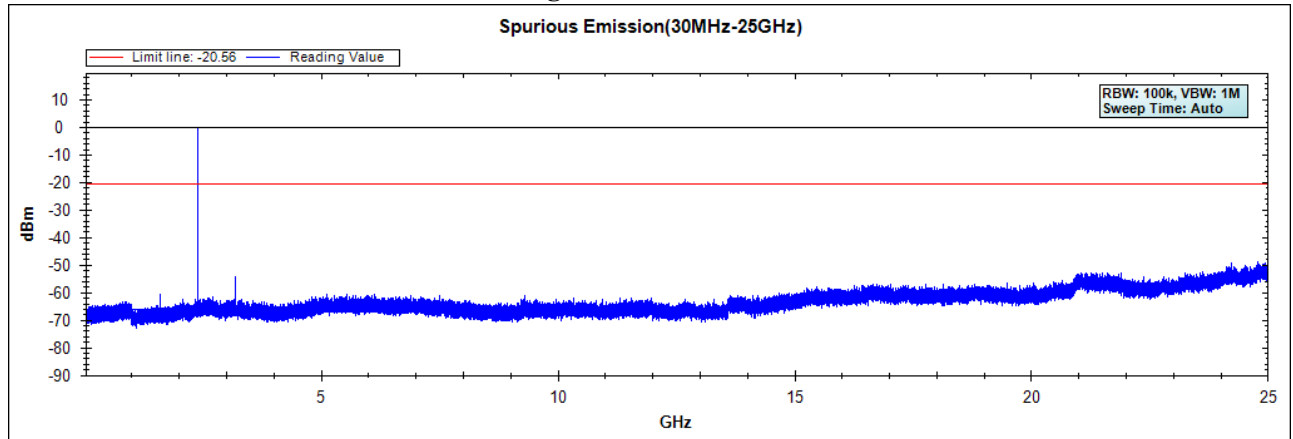
### 5.5. Uncertainty

± 150Hz

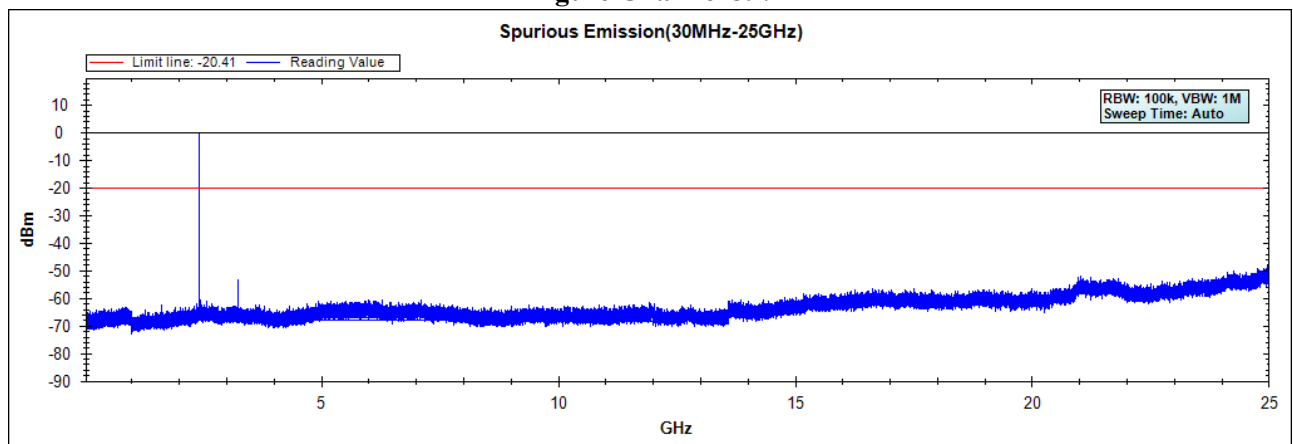
## 5.6. Test Result of RF Antenna Conducted Test

Product : Bluetooth Ring Scanner  
Test Item : RF Antenna Conducted Test  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

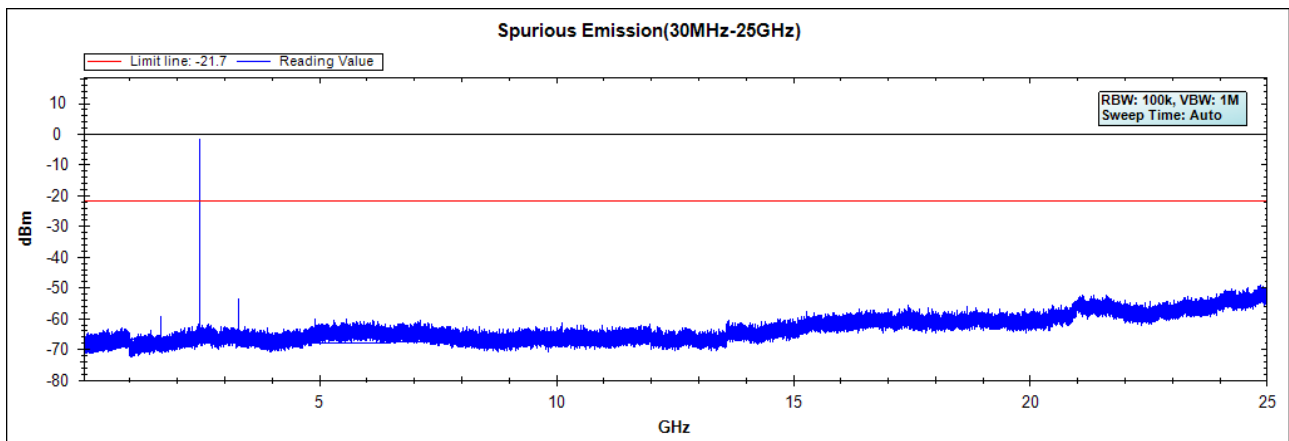
**Figure Channel 00:**



**Figure Channel 39:**



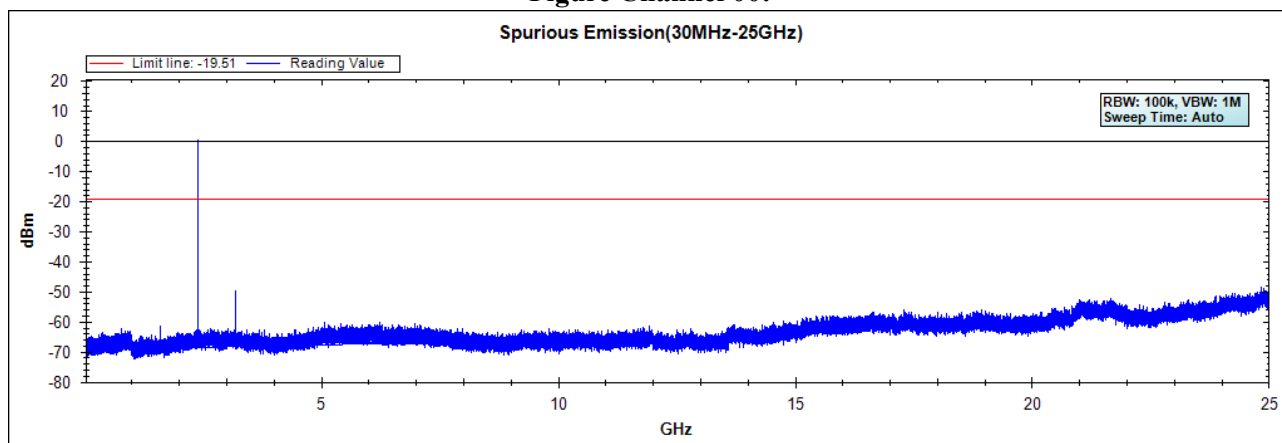
**Figure Channel 78:**



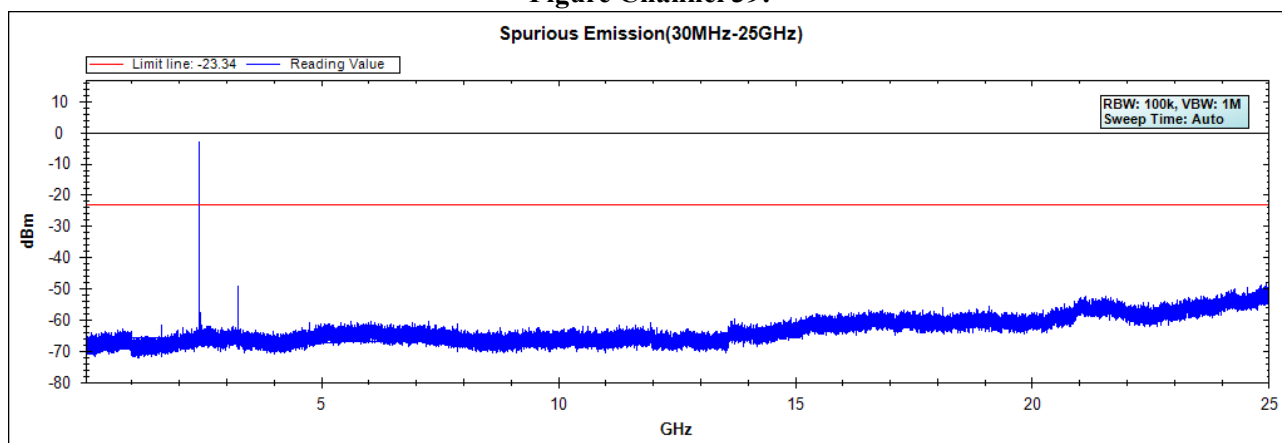
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Bluetooth Ring Scanner  
Test Item : RF Antenna Conducted Test  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

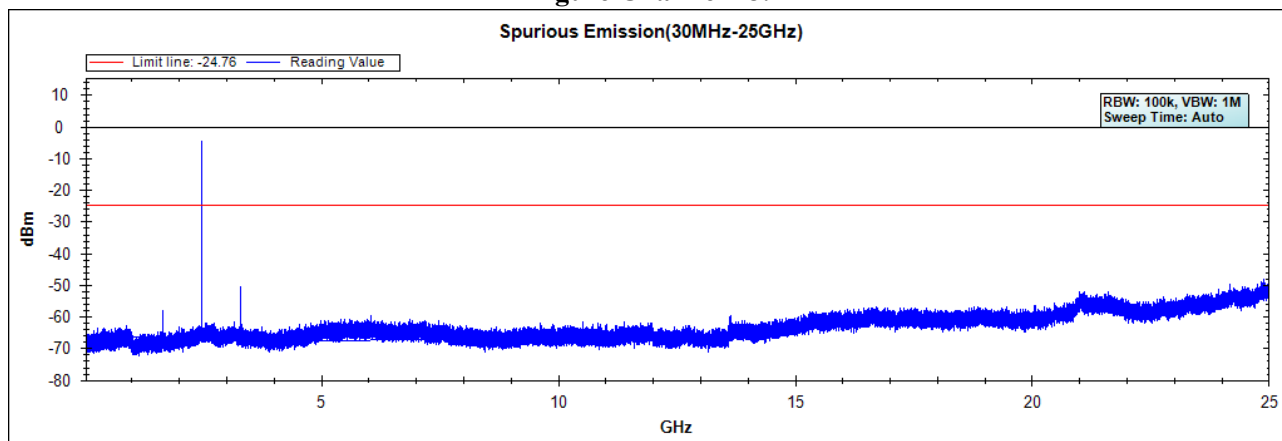
**Figure Channel 00:**



**Figure Channel 39:**



**Figure Channel 78:**



Note: The above test pattern is synthesized by multiple of the frequency range.

## 6. Band Edge

### 6.1. Test Equipment

#### RF Radiated Measurement:

The following test equipments are used during the band edge tests:

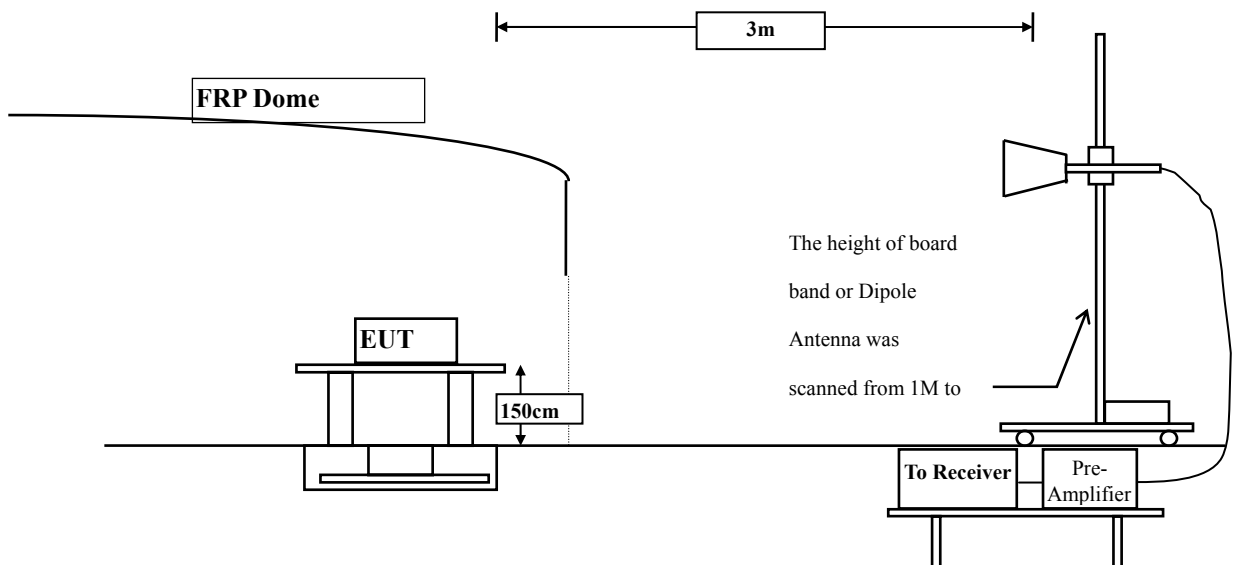
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

- Note:
1. All equipments are calibrated every one year.
  2. The test instruments marked by “X” are used to measure the final test results.

### 6.2. Test Setup

#### RF Radiated Measurement:

Above 1GHz



### 6.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 6.4. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.

### 6.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

## 6.6. Test Result of Band Edge

Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

### RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2390.000	-1.131	38.057	36.926	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	61.981	60.898	--	--	--
00 (Peak)	2402.200	-1.072	96.116	95.045	--	--	--
00 (Average)	2376.200	-1.185	29.517	28.332	74.00	54.00	Pass
00 (Average)	2390.000	-1.131	27.441	26.310	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	61.327	60.244	--	--	--
00 (Average)	2402.200	-1.072	81.949	80.878	--	--	--

Figure Channel 00:

Horizontal (Peak)

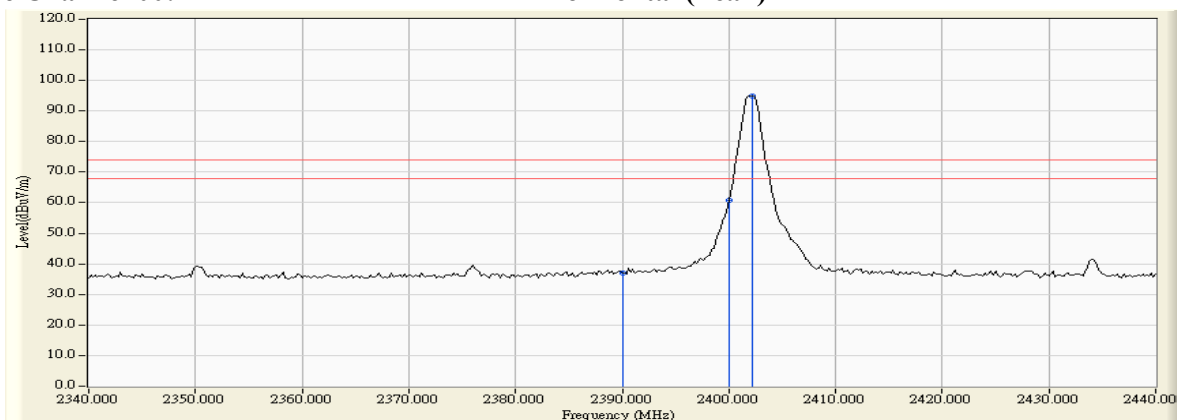
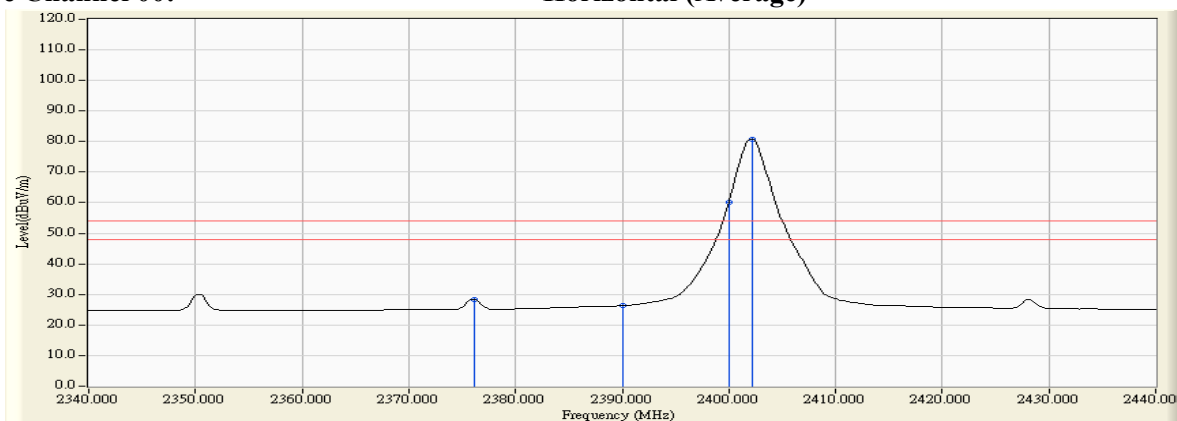


Figure Channel 00:

Horizontal (Average)



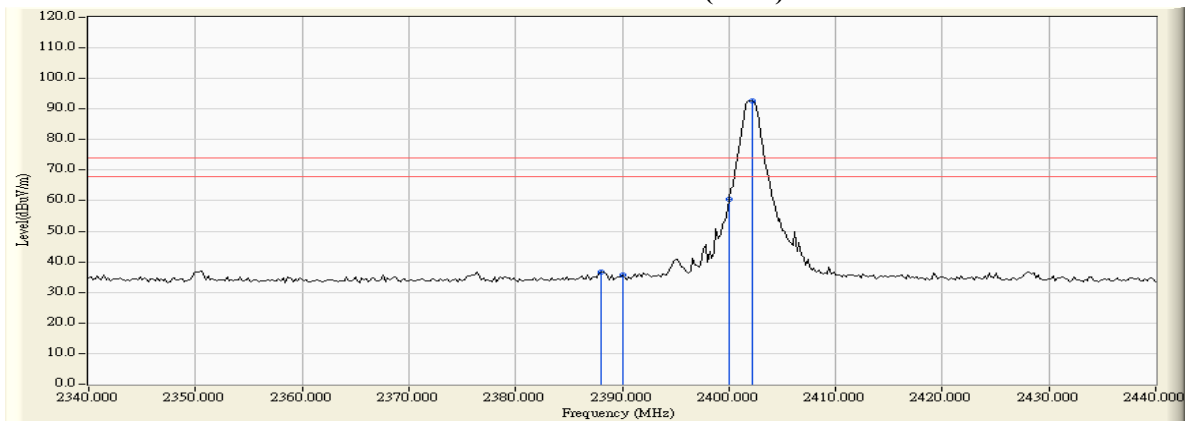
- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

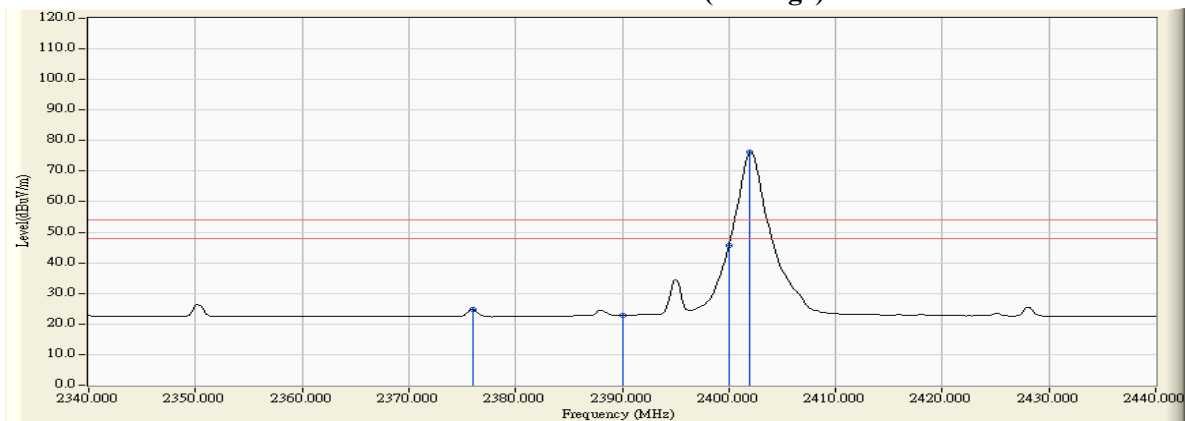
**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2388.000	-1.715	38.466	36.751	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	37.495	35.770	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	62.257	60.525	--	--	--
00 (Peak)	2402.200	-1.729	94.323	92.595	--	--	--
00 (Average)	2376.000	-1.660	26.562	24.902	74.00	54.00	Pass
00 (Average)	2390.000	-1.725	24.590	22.865	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	47.292	45.560	--	--	--
00 (Average)	2402.000	-1.729	77.853	76.124	--	--	--

**Figure Channel 00: VERTICAL (Peak)**



**Figure Channel 00: VERTICAL (Average)**



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

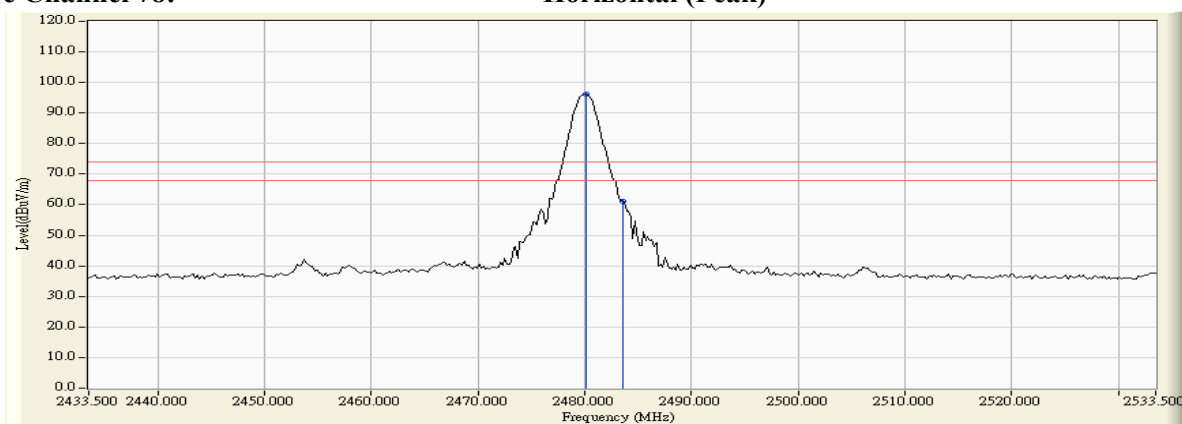


Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

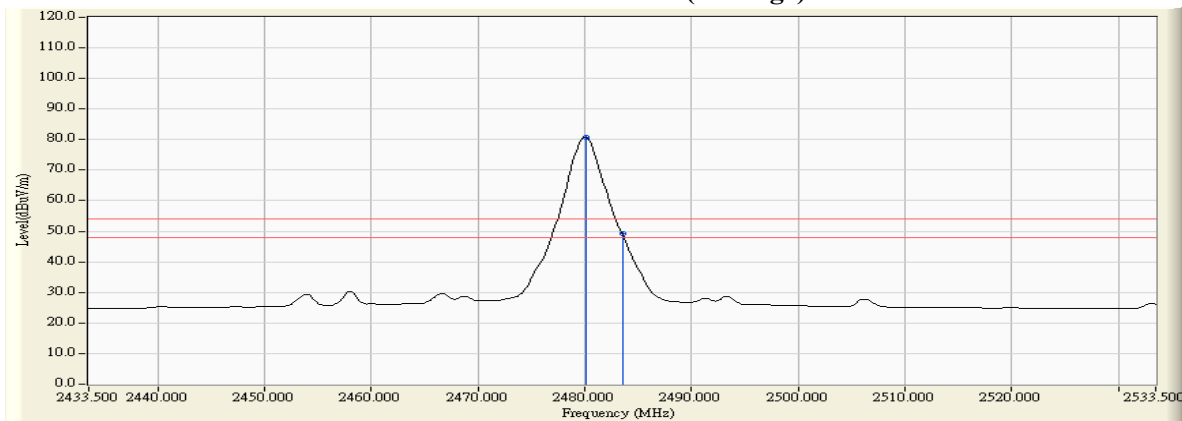
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2480.100	-0.580	96.626	96.046	--	--	--
78 (Peak)	2483.500	-0.558	61.732	61.174	74.00	54.00	Pass
78 (Average)	2480.100	-0.580	81.464	80.884	--	--	--
78 (Average)	2483.500	-0.558	49.638	49.080	74.00	54.00	Pass

**Figure Channel 78: Horizontal (Peak)**



**Figure Channel 78: Horizontal (Average)**



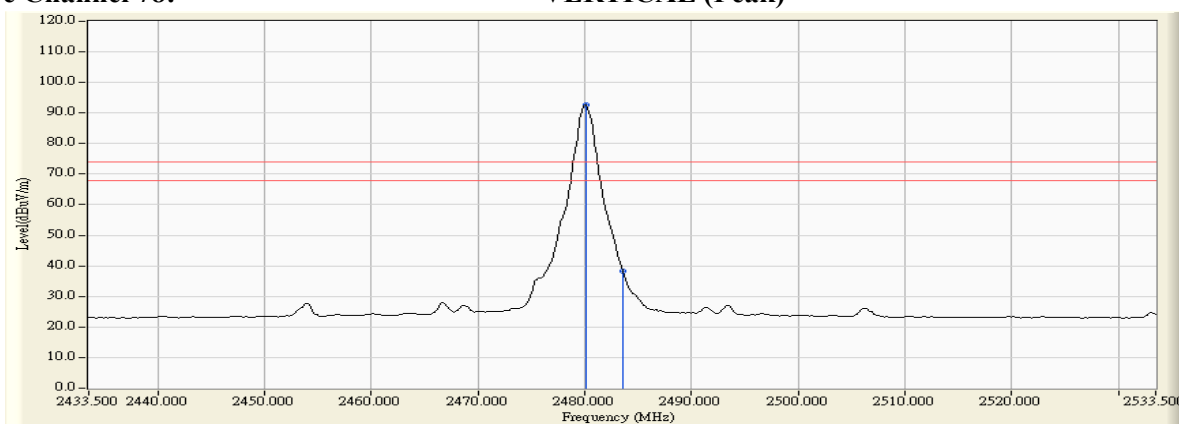
- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

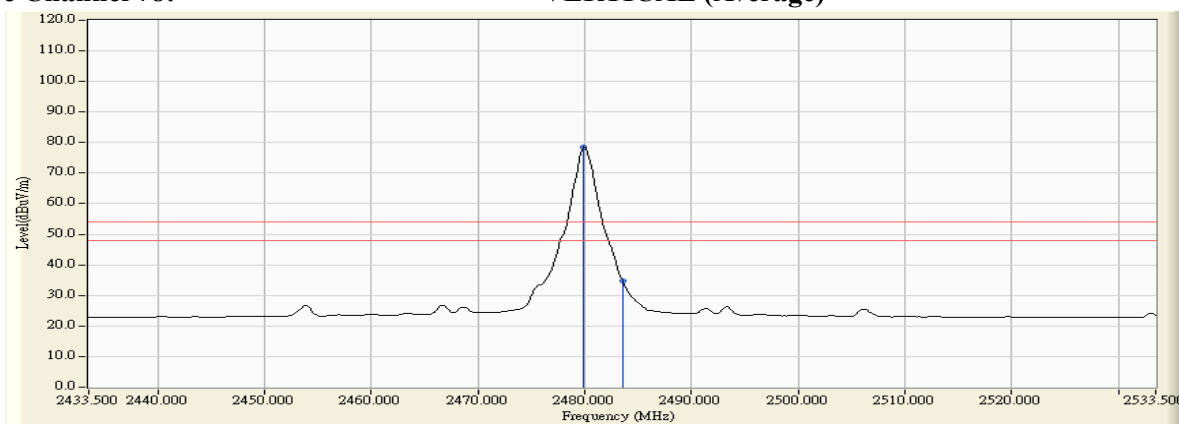
**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2480.100	-1.324	93.865	92.541	--	--	--
78 (Peak)	2483.500	-1.305	39.534	38.229	74.00	54.00	Pass
78 (Average)	2479.900	-1.325	79.728	78.403	--	--	--
78 (Average)	2483.500	-1.305	36.062	34.757	74.00	54.00	Pass

**Figure Channel 78: VERTICAL (Peak)**



**Figure Channel 78: VERTICAL (Average)**



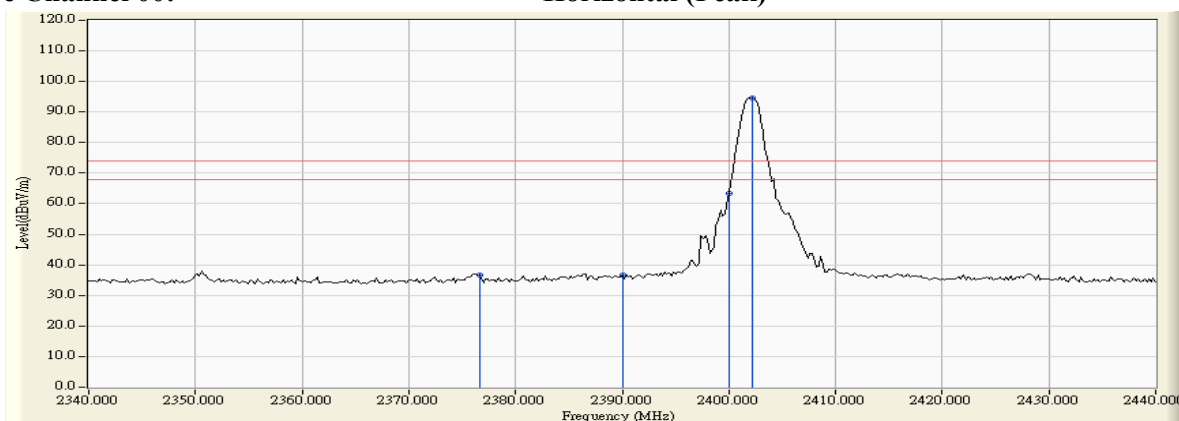
- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

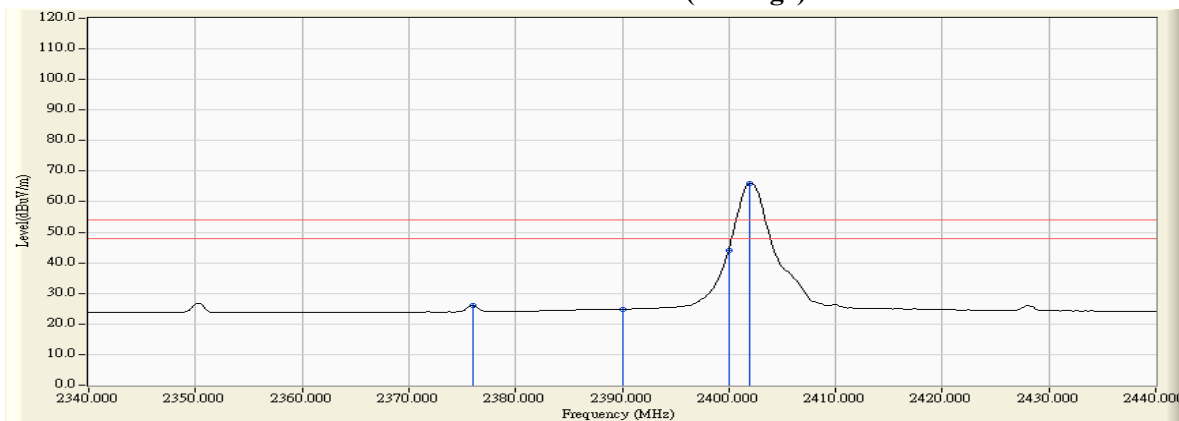
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2376.600	-1.183	37.981	36.798	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	37.695	36.564	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	64.571	63.488	--	--	--
00 (Peak)	2402.200	-1.072	95.727	94.656	--	--	--
00 (Average)	2376.000	-1.186	27.146	25.961	74.00	54.00	Pass
00 (Average)	2390.000	-1.131	26.025	24.894	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	45.277	44.194	--	--	--
00 (Average)	2402.000	-1.073	67.110	66.038	--	--	--

**Figure Channel 00: Horizontal (Peak)**



**Figure Channel 00: Horizontal (Average)**



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

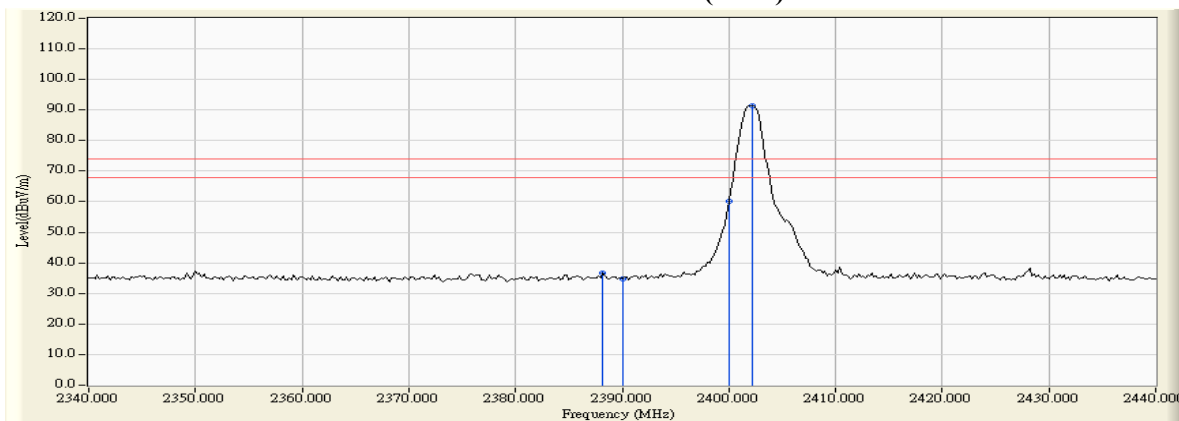
Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2388.200	-1.716	38.498	36.782	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	36.352	34.627	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	61.968	60.236	--	--	--
00 (Peak)	2402.200	-1.729	93.195	91.467	--	--	--
00 (Average)	2376.200	-1.661	25.942	24.281	74.00	54.00	Pass
00 (Average)	2390.000	-1.725	25.397	23.672	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	42.169	40.437	--	--	--
00 (Average)	2402.000	-1.729	64.266	62.537	--	--	--

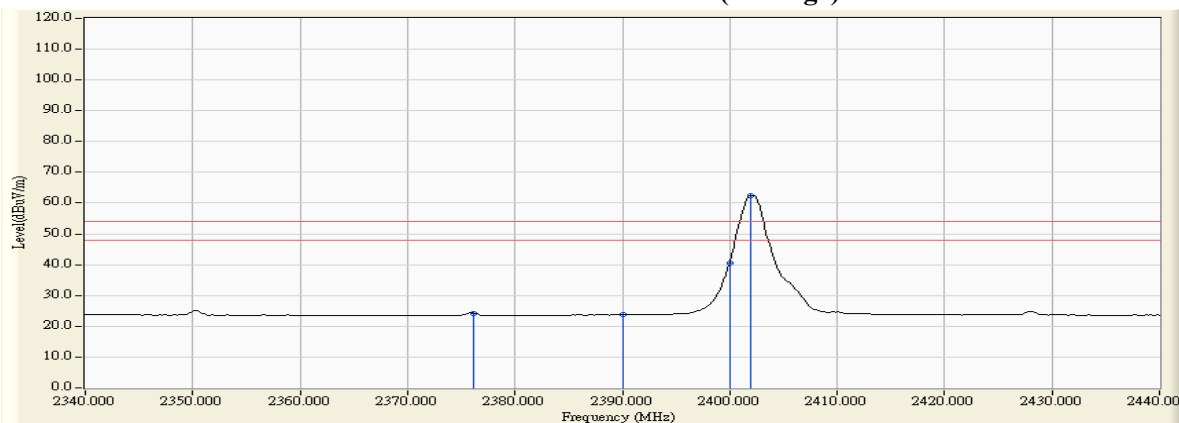
**Figure Channel 00:**

**VERTICAL (Peak)**



**Figure Channel 00:**

**VERTICAL I (Average)**



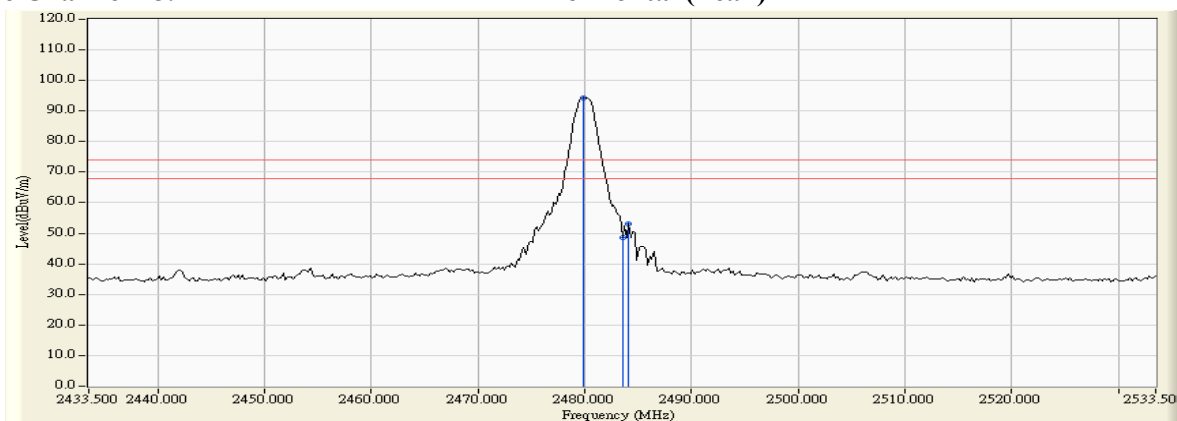
- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

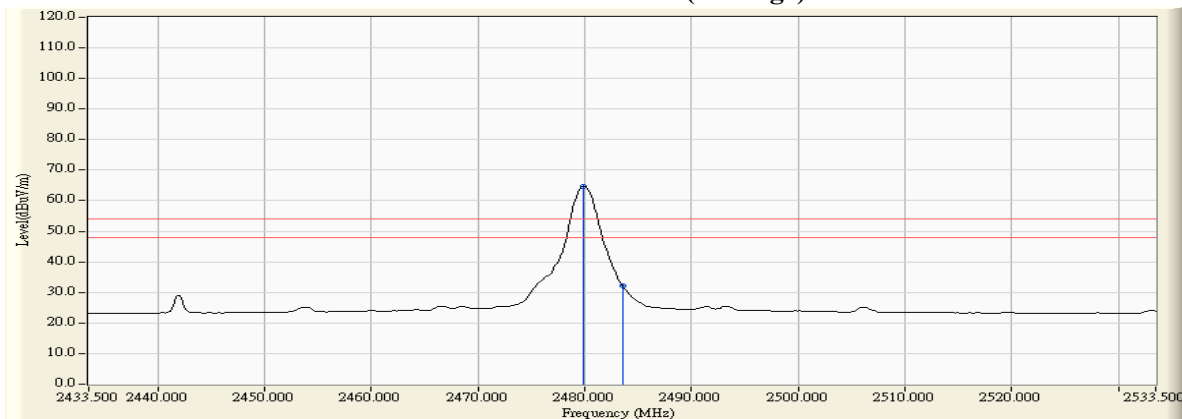
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2479.900	-0.581	94.991	94.410	--	--	--
78 (Peak)	2483.500	-0.558	49.135	48.577	74.00	54.00	Pass
78 (Peak)	2484.100	-0.555	53.577	53.023	74.00	54.00	Pass
78 (Average)	2479.900	-0.581	65.365	64.784	--	--	--
78 (Average)	2483.500	-0.558	32.648	32.090	74.00	54.00	Pass

**Figure Channel 78: Horizontal (Peak)**



**Figure Channel 78: Horizontal (Average)**



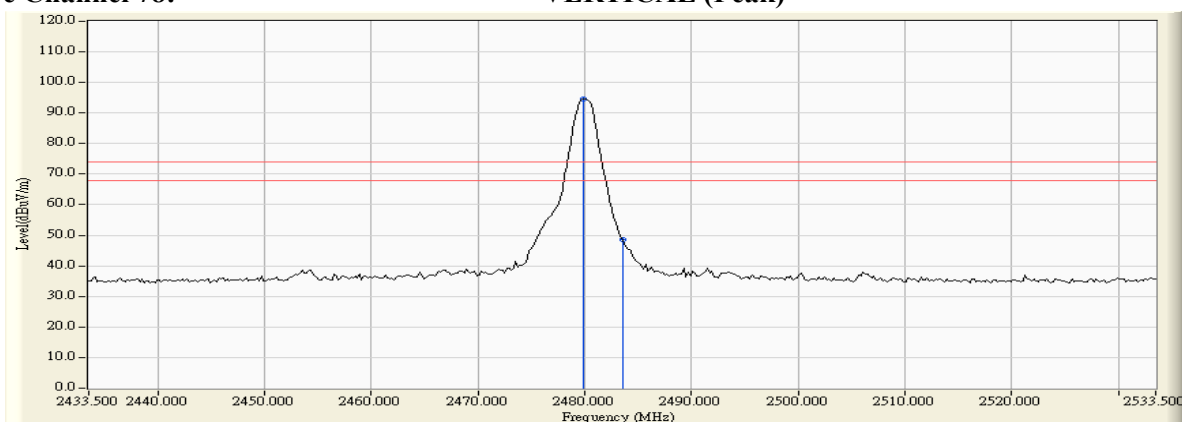
- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

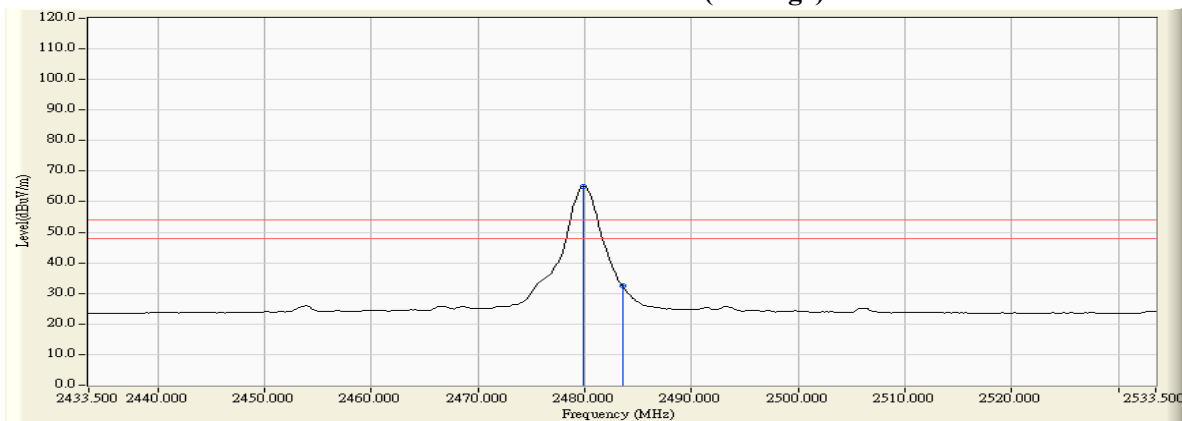
**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2479.900	-1.325	95.826	94.501	--	--	--
78 (Peak)	2483.500	-1.305	49.724	48.419	74.00	54.00	Pass
78 (Average)	2479.900	-1.325	66.389	65.064	--	--	--
78 (Average)	2483.500	-1.305	33.873	32.568	74.00	54.00	Pass

**Figure Channel 78: VERTICAL (Peak)**



**Figure Channel 78: VERTICAL (Average)**



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

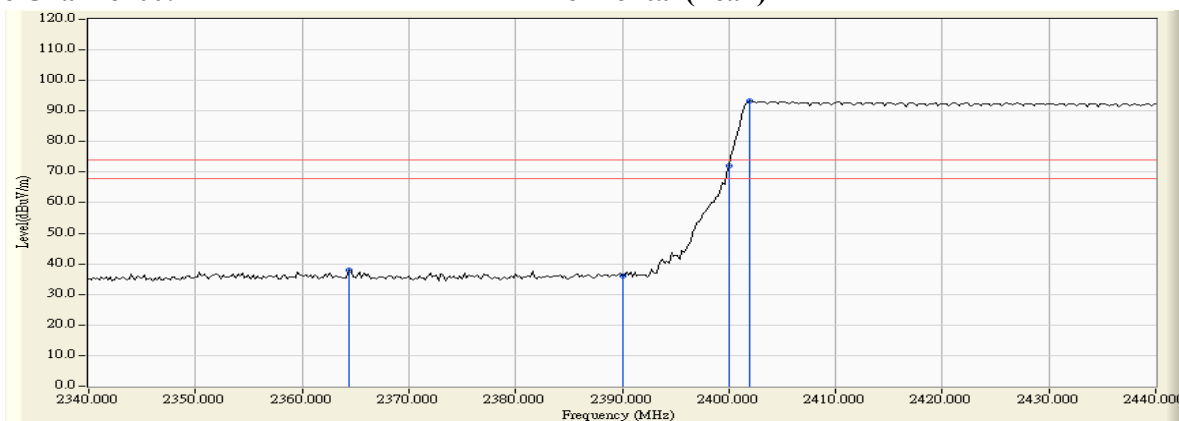
Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2364.400	-1.232	39.331	38.099	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	37.318	36.187	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	73.224	72.141	--	--	--
00 (Peak)	2402.000	-1.073	94.215	93.143	--	--	--
00 (Average)	2390.000	-1.131	30.838	29.707	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	68.372	67.289	--	--	--
00 (Average)	2402.000	-1.073	93.899	92.827	--	--	--

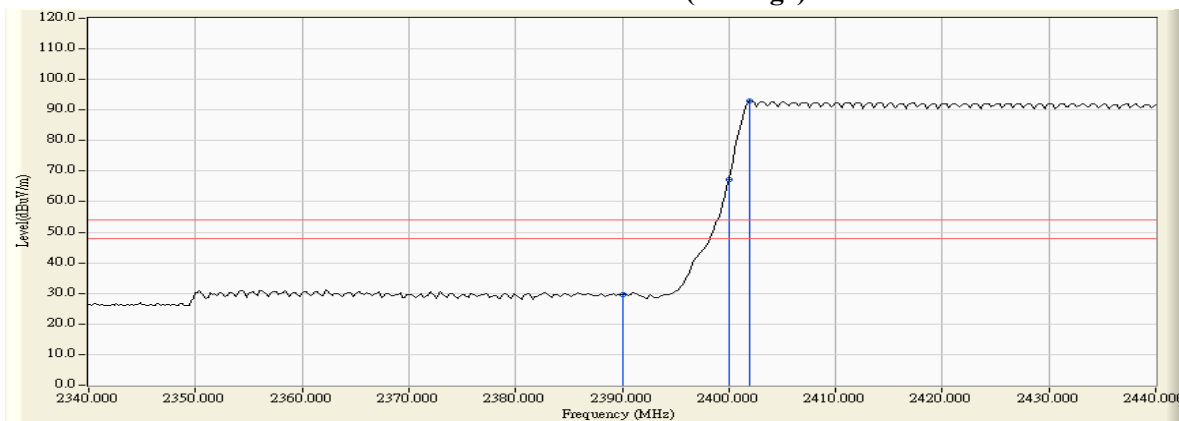
**Figure Channel 00:**

**Horizontal (Peak)**



**Figure Channel 00:**

**Horizontal (Average)**



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

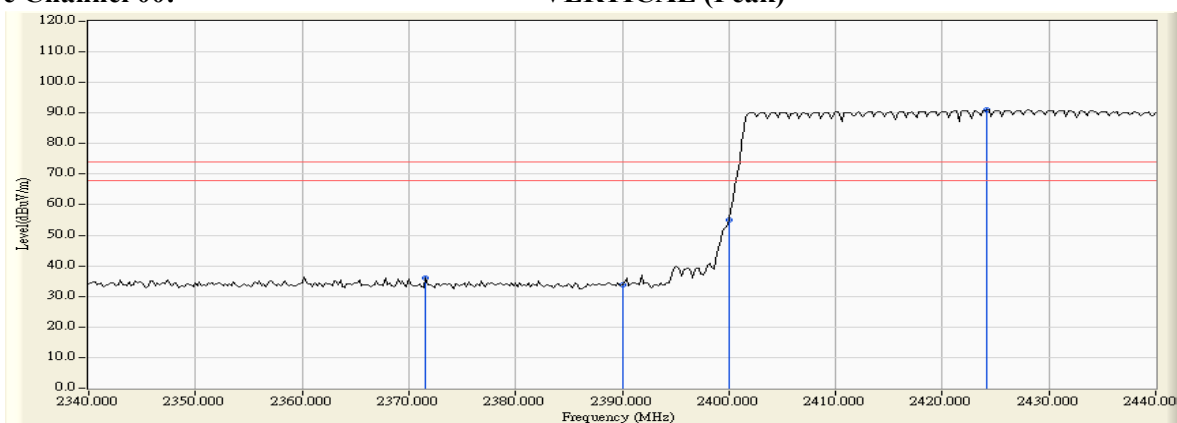
Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2402MHz)

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2371.600	-1.640	37.716	36.077	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	35.581	33.856	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	56.897	55.165	--	--	--
00 (Peak)	2424.200	-1.636	92.573	90.936	--	--	--
00 (Average)	2390.000	-1.725	27.571	25.846	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	52.051	50.319	--	--	--
00 (Average)	2431.200	-1.598	91.425	89.827	--	--	--

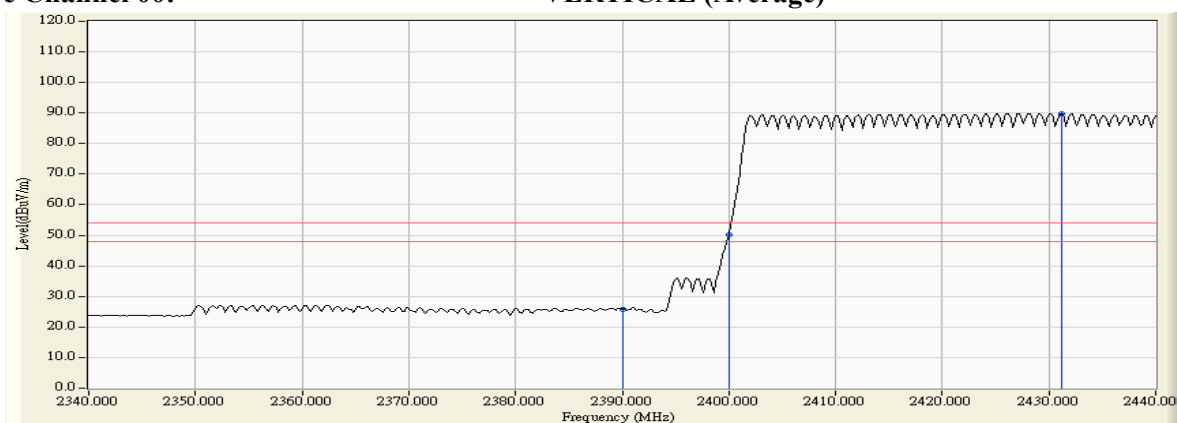
**Figure Channel 00:**

**VERTICAL (Peak)**



**Figure Channel 00:**

**VERTICAL (Average)**



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

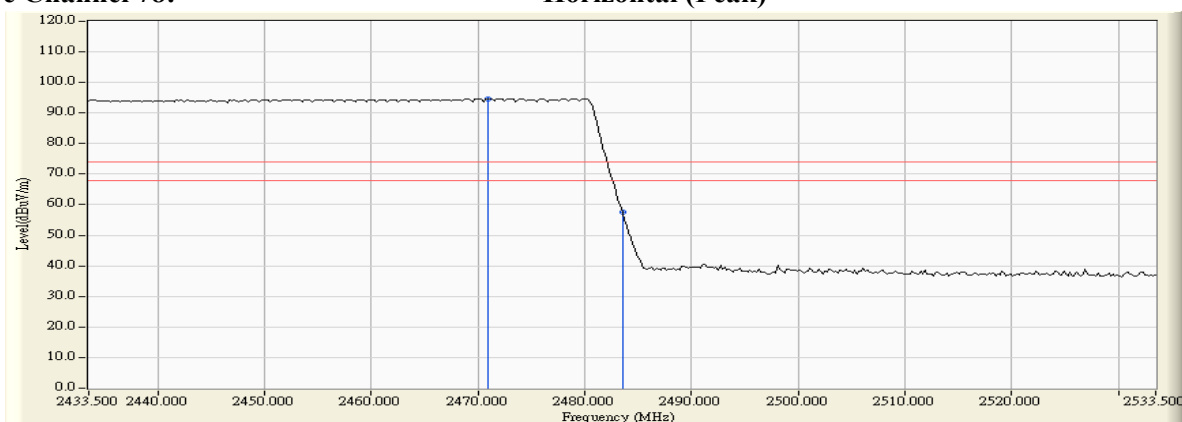


Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

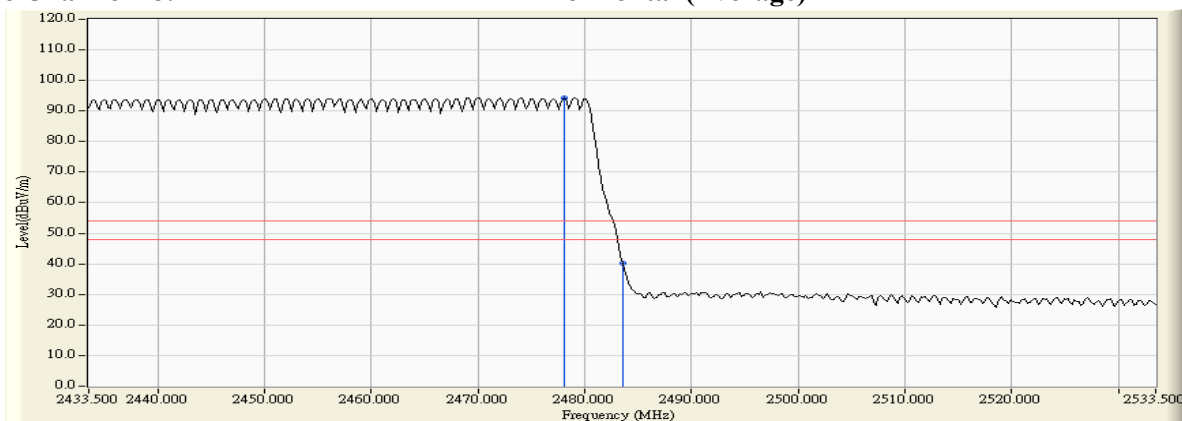
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2470.900	-0.638	95.217	94.579	--	--	--
78 (Peak)	2483.500	-0.558	58.078	57.520	74.00	54.00	Pass
78 (Average)	2478.100	-0.592	94.824	94.231	--	--	--
78 (Average)	2483.500	-0.558	40.634	40.076	74.00	54.00	Pass

**Figure Channel 78: Horizontal (Peak)**



**Figure Channel 78: Horizontal (Average)**



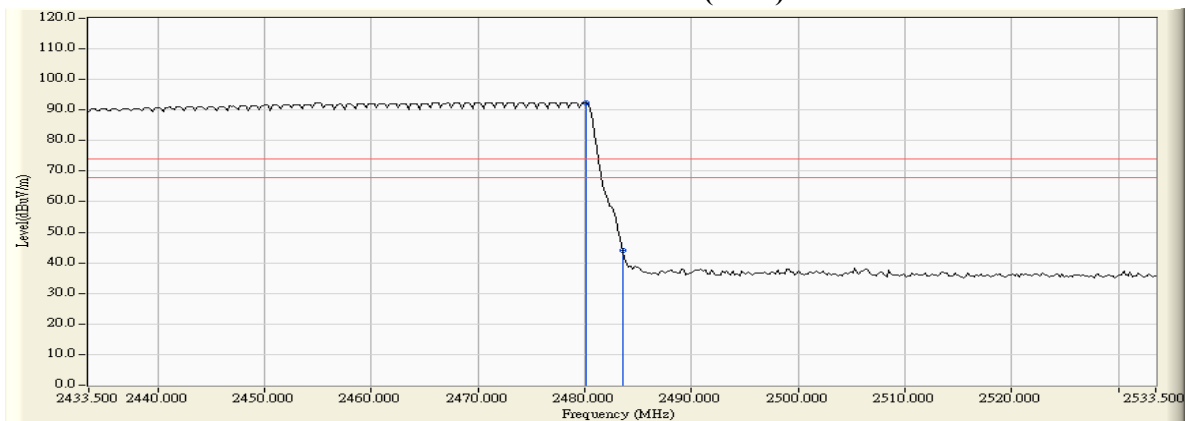
- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2480MHz)

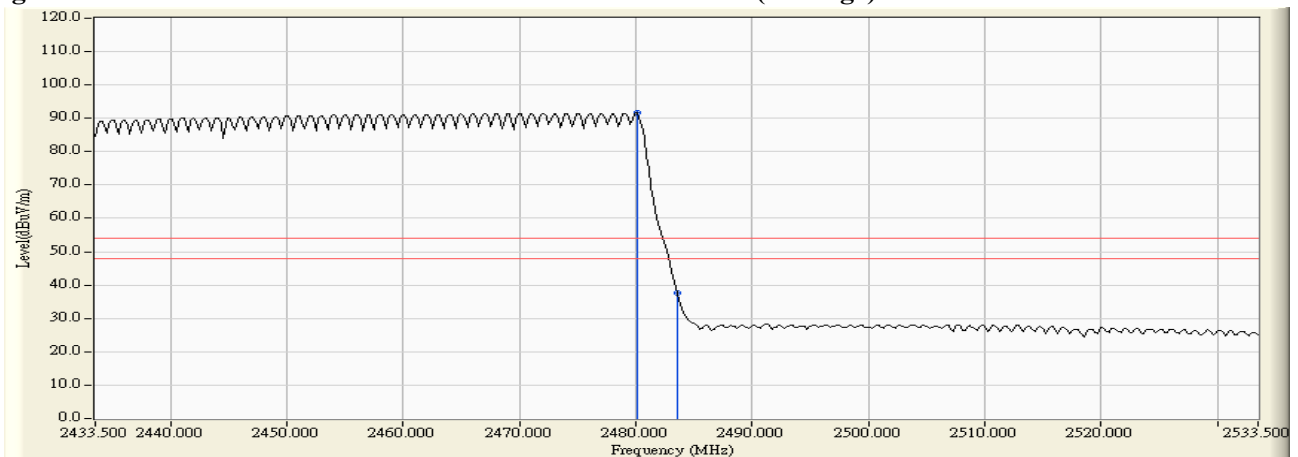
**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2480.100	-1.324	93.751	92.427	--	--	--
78 (Peak)	2483.500	-1.305	45.467	44.162	74.00	54.00	Pass
78 (Average)	2480.100	-1.324	92.872	91.548	--	--	--
78 (Average)	2483.500	-1.305	38.935	37.630	74.00	54.00	Pass

**Figure Channel 78: VERTICAL (Peak)**



**Figure Channel 78: VERTICAL (Average)**



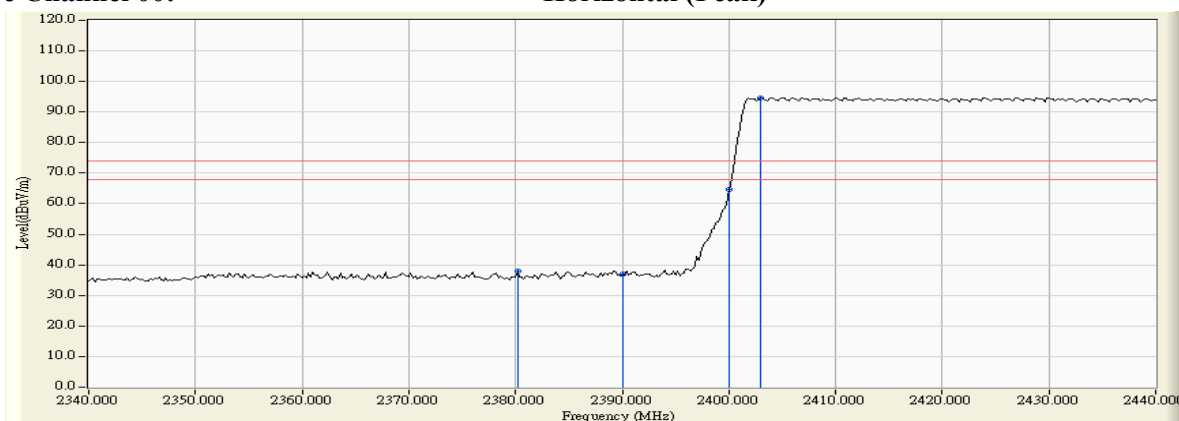
- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

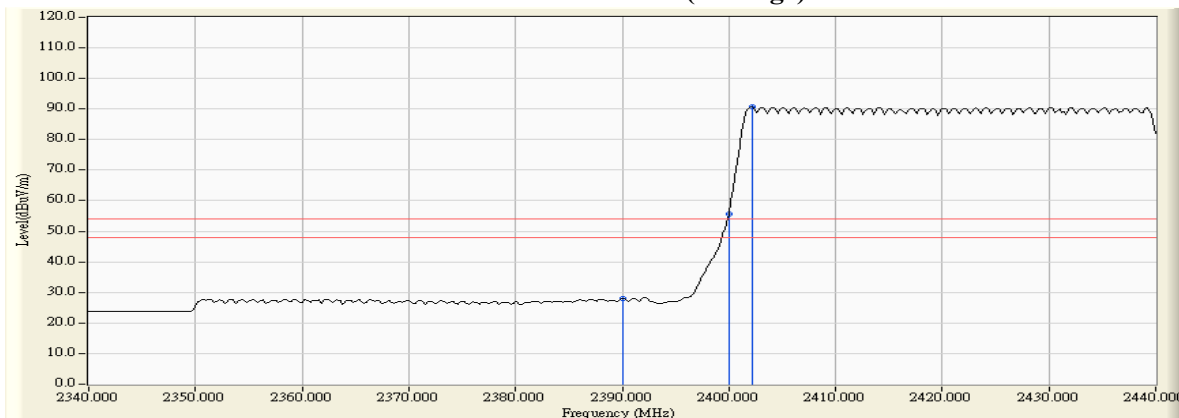
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2380.200	-1.168	39.214	38.045	74.00	54.00	Pass
00 (Peak)	2390.000	-1.131	38.023	36.892	74.00	54.00	Pass
00 (Peak)	2400.000	-1.084	65.885	64.802	--	--	--
00 (Peak)	2403.000	-1.066	95.662	94.595	--	--	--
00 (Average)	2390.000	-1.131	29.128	27.997	74.00	54.00	Pass
00 (Average)	2400.000	-1.084	56.758	55.675	--	--	--
00 (Average)	2402.200	-1.072	91.653	90.582	--	--	--

**Figure Channel 00: Horizontal (Peak)**



**Figure Channel 00: Horizontal (Average)**



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

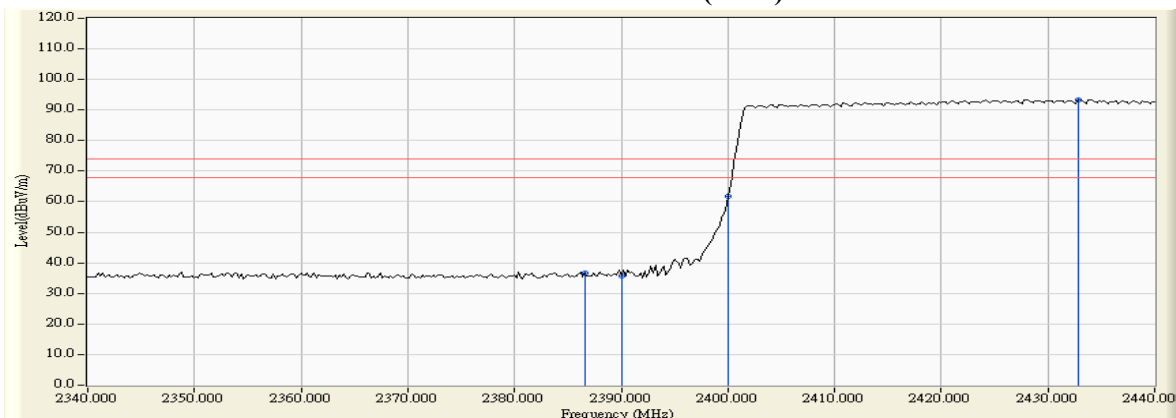
Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
00 (Peak)	2386.600	-1.709	38.469	36.760	74.00	54.00	Pass
00 (Peak)	2390.000	-1.725	37.513	35.788	74.00	54.00	Pass
00 (Peak)	2400.000	-1.733	63.436	61.704	--	--	--
00 (Peak)	2432.800	-1.589	94.880	93.291	--	--	--
00 (Average)	2390.000	-1.725	27.849	26.124	74.00	54.00	Pass
00 (Average)	2400.000	-1.733	54.299	52.567	--	--	--
00 (Average)	2430.200	-1.604	90.970	89.366	--	--	--

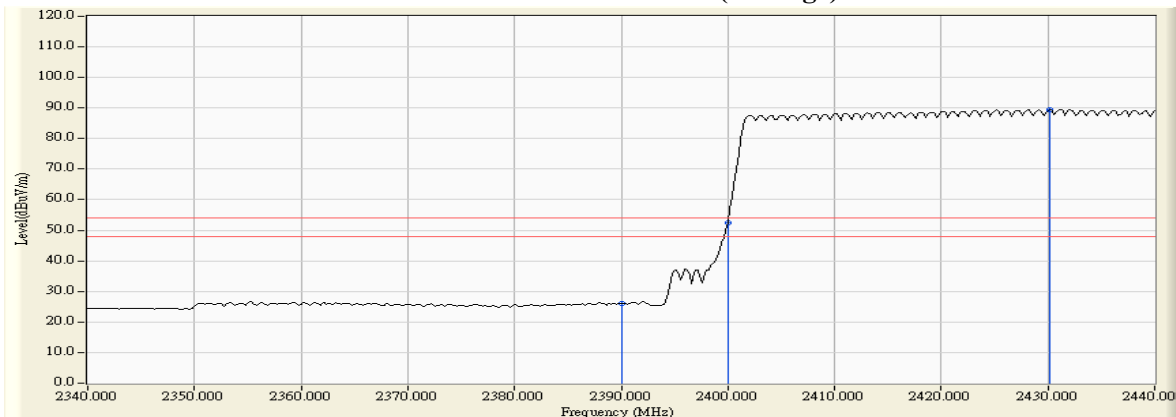
**Figure Channel 00:**

**VERTICAL (Peak)**



**Figure Channel 00:**

**VERTICAL I (Average)**



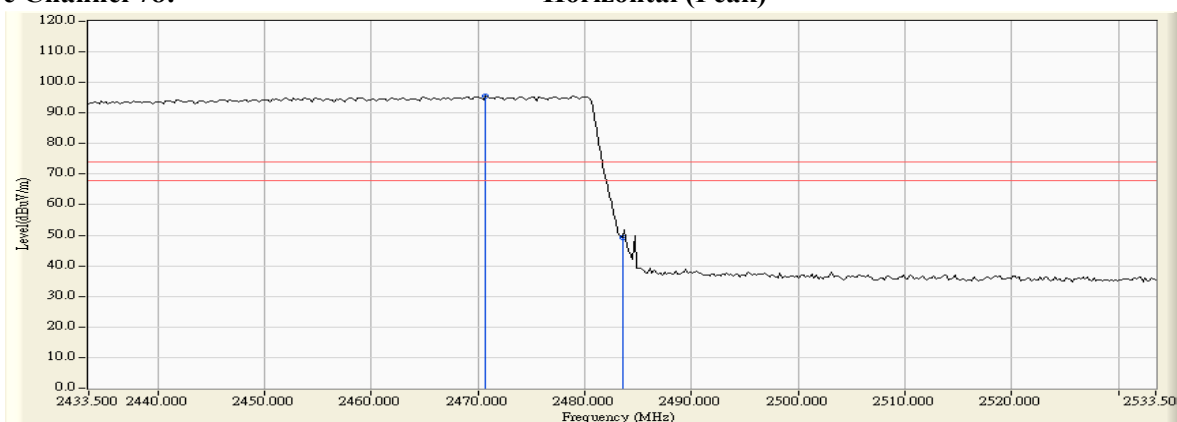
- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

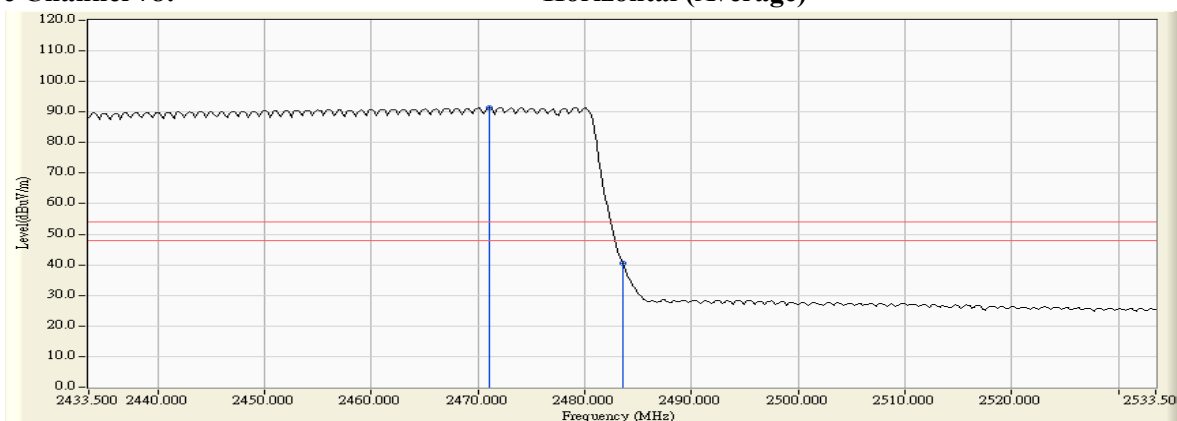
**RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2470.700	-0.640	96.037	95.397	--	--	--
78 (Peak)	2483.500	-0.558	49.691	49.133	74.00	54.00	Pass
78 (Average)	2471.100	-0.637	91.941	91.304	--	--	--
78 (Average)	2483.500	-0.558	41.106	40.548	74.00	54.00	Pass

**Figure Channel 78: Horizontal (Peak)**



**Figure Channel 78: Horizontal (Average)**



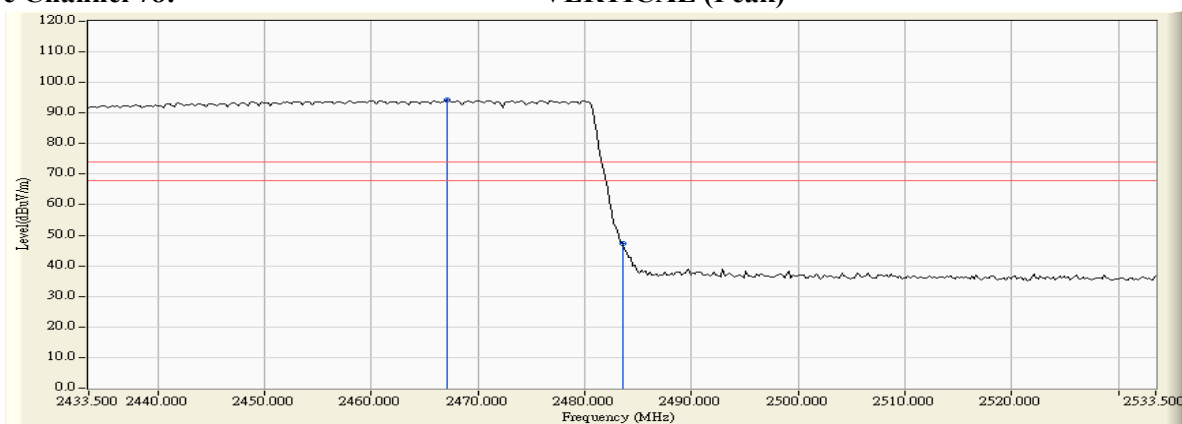
- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Ring Scanner  
Test Item : Hopping Band Edge  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2480MHz)

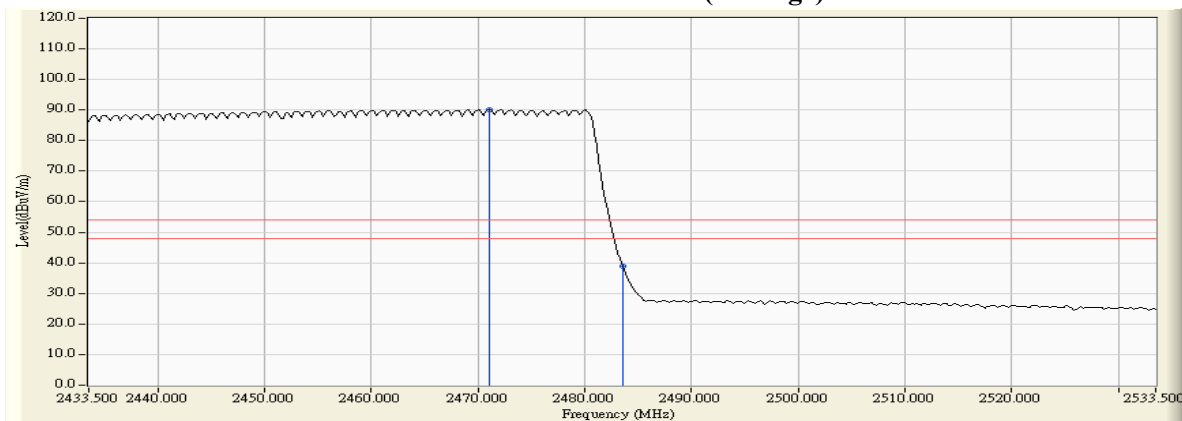
**RF Radiated Measurement (VERTICAL):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
78 (Peak)	2467.100	-1.396	95.509	94.113	--	--	--
78 (Peak)	2483.500	-1.305	48.457	47.152	74.00	54.00	Pass
78 (Average)	2471.100	-1.374	91.432	90.058	--	--	--
78 (Average)	2483.500	-1.305	40.366	39.061	74.00	54.00	Pass

**Figure Channel 78: VERTICAL (Peak)**



**Figure Channel 78: VERTICAL (Average)**



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.  
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.  
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.  
4. “ \* ”, means this data is the worst emission level.  
5. Measurement Level = Reading Level + Correct Factor.  
6. The average measurement was not performed when the peak measured data under the limit of average detection.

## 7. Channel Number

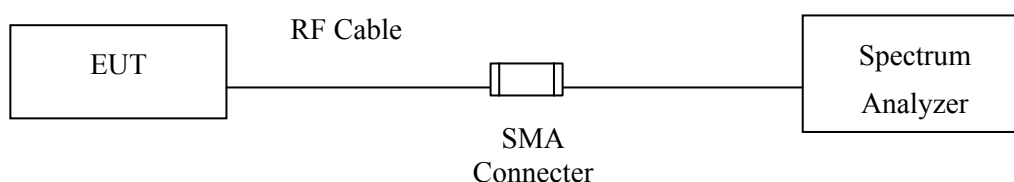
### 7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

### 7.2. Test Setup



### 7.3. Limit

Frequency hopping systems operating in the 2400-2483.5 MHz bands shall use at least 75 hopping frequencies.

### 7.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

### 7.5. Uncertainty

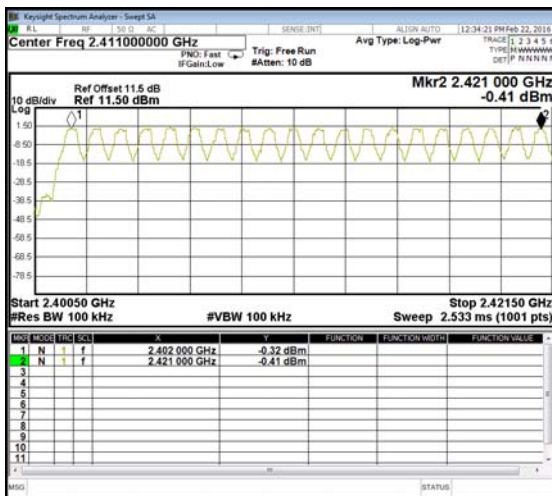
N/A

## 7.6. Test Result of Channel Number

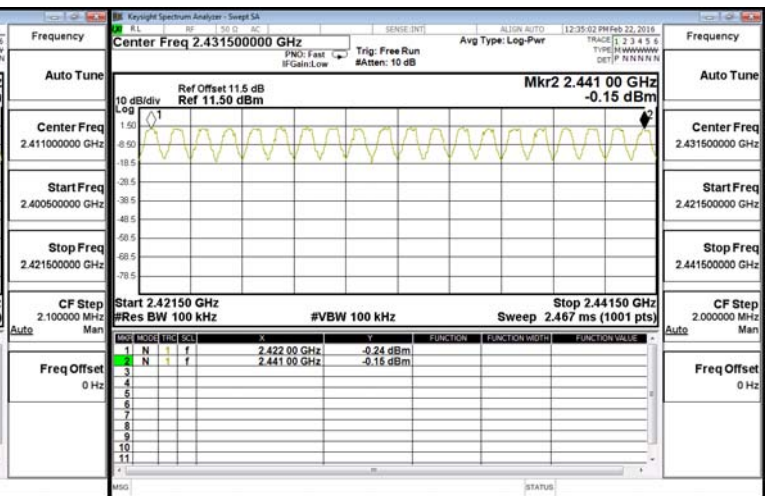
Product : Bluetooth Ring Scanner  
 Test Item : Channel Number  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

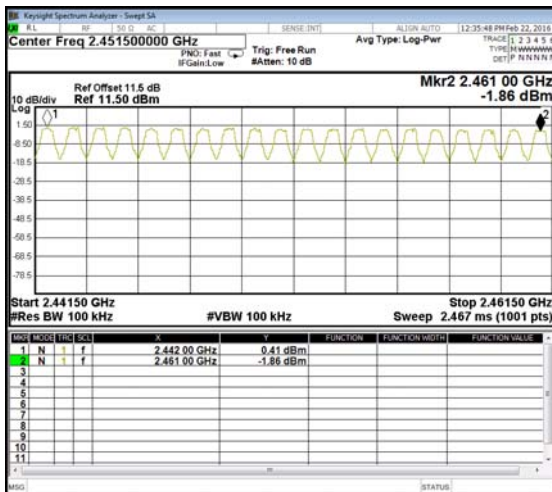
2402-2421MHz



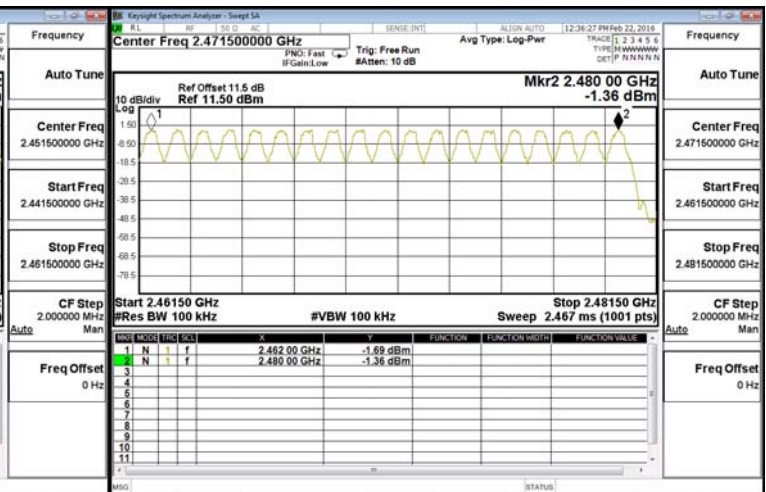
2422-2441MHz



2442-2461MHz



2462-2480MHz

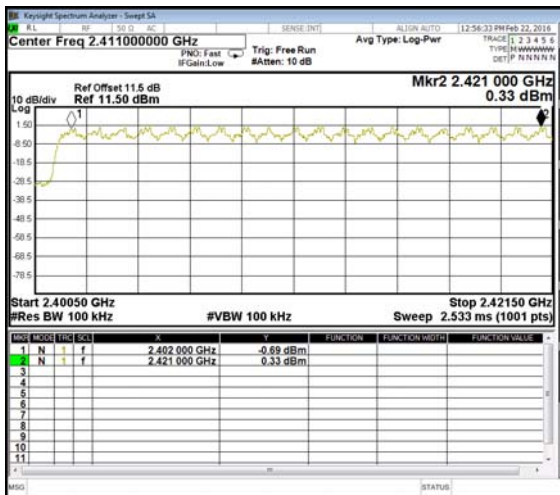




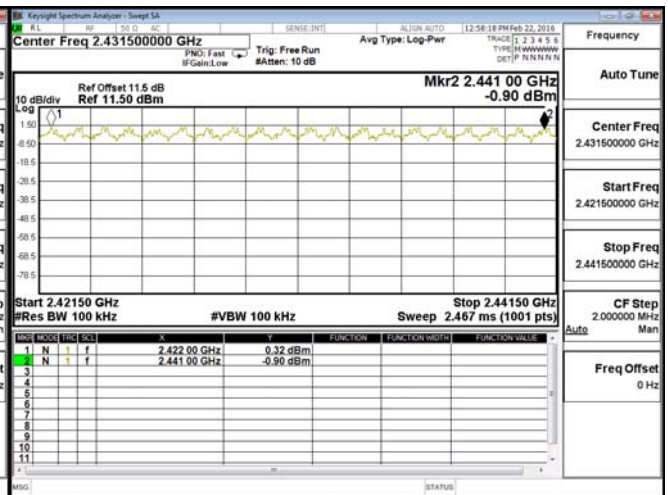
Product : Bluetooth Ring Scanner  
Test Item : Channel Number  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

Frequency Range (MHz)	Measurement (Hopping Channel)	Required Limit (Hopping Channel)	Result
2402 ~ 2480	79	>75	Pass

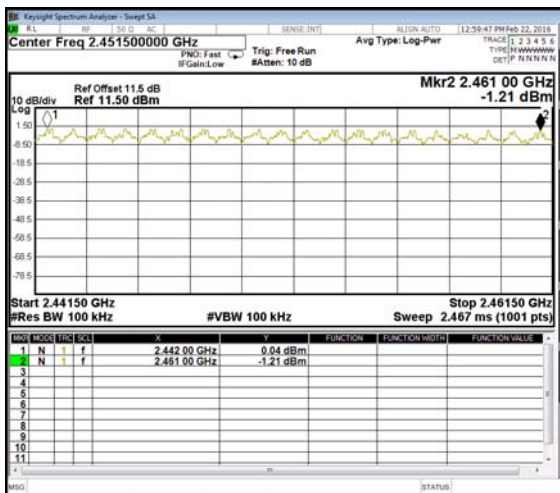
### 2402-2421MHz



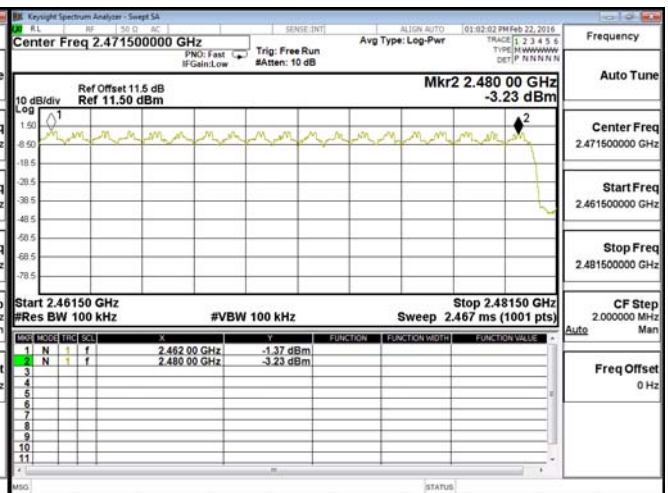
### 2422-2441MHz



### 2442-2461MHz



### 2462-2480MHz



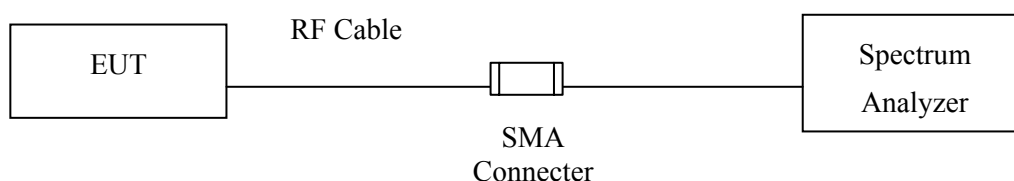
## 8. Channel Separation

### 8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.  
2. The test instruments mark by “X” are used to measure the final test results.

### 8.2. Test Setup



### 8.3. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

### 8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

### 8.5. Uncertainty

± 150Hz

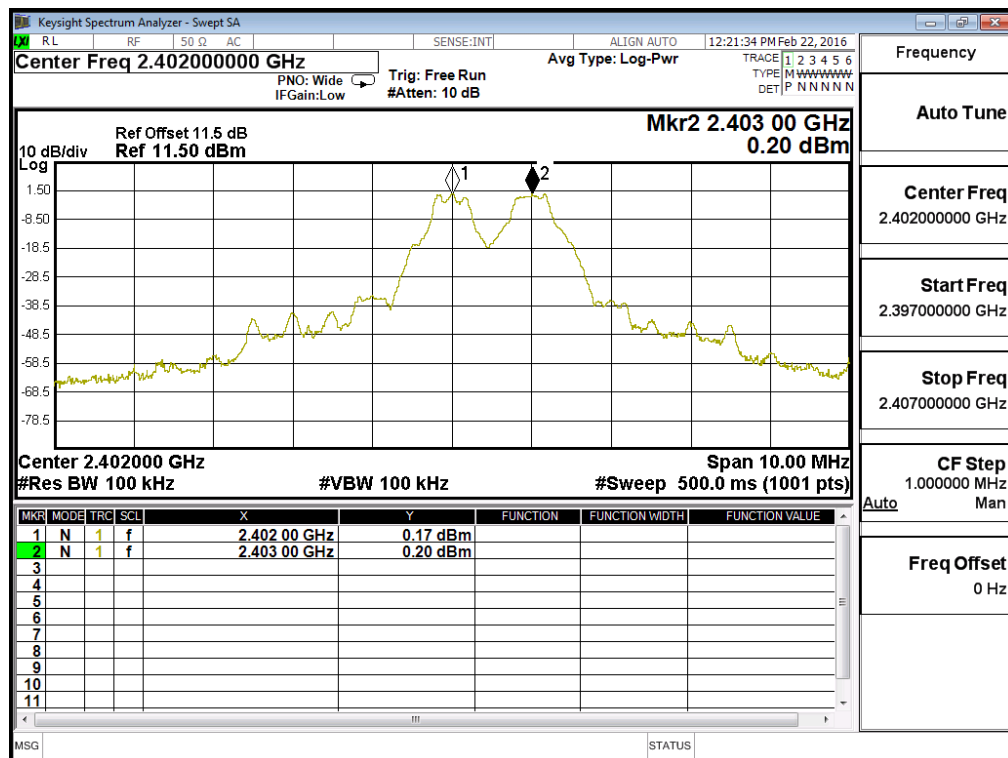
## 8.6. Test Result of Channel Separation

Product : Bluetooth Ring Scanner  
 Test Item : Channel Separation  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

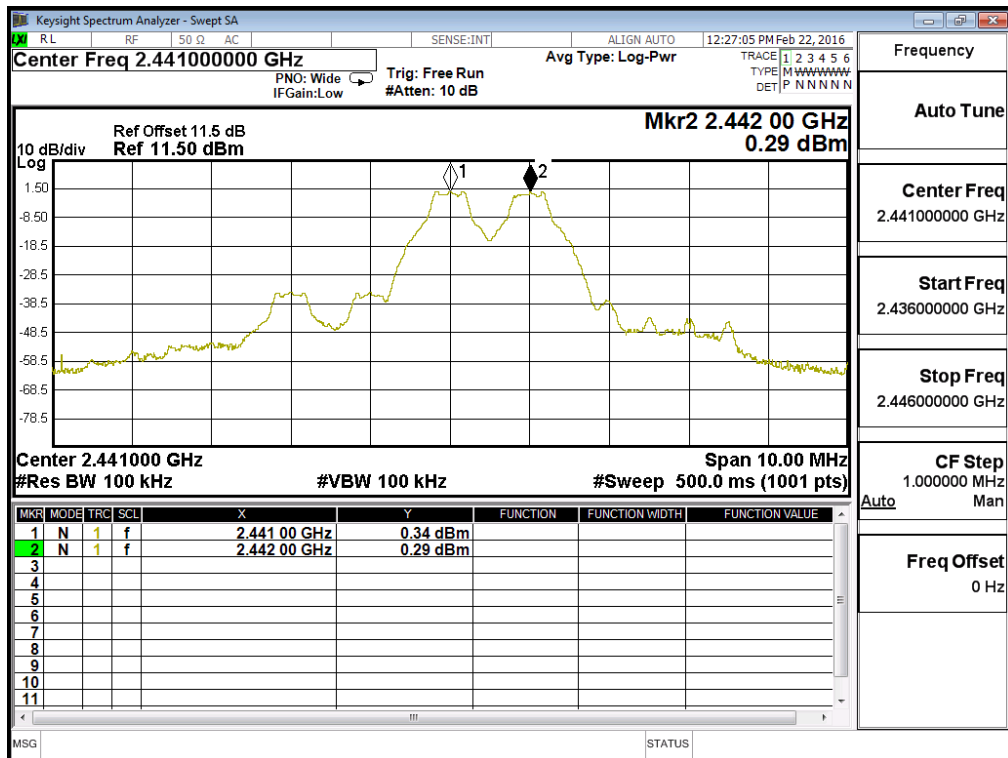
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Limit (kHz)	Limit of (2/3)*20dB Bandwidth (kHz)	Result
00	2402	1000	>25 kHz	753.3	Pass
39	2441	1000	>25 kHz	760.0	Pass
78	2480	1000	>25 kHz	760.0	Pass

NOTE: The 20dB Bandwidth is refer to section 10.

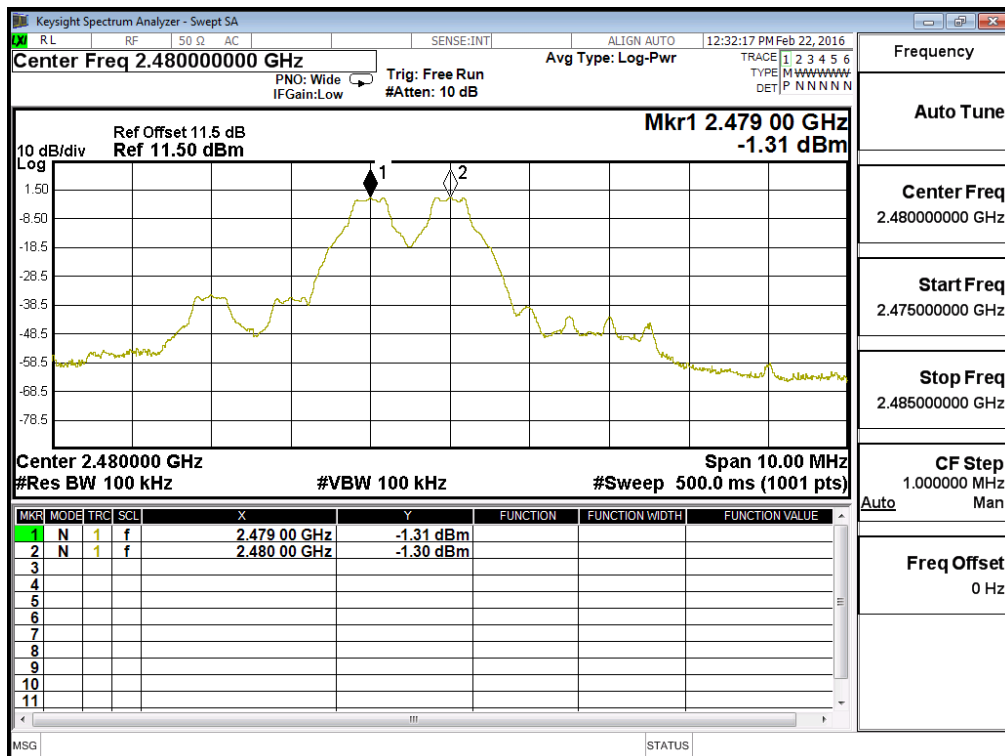
Channel 00 2402MHz



### Channel 39 2441MHz



### Channel 78 2480 MHz

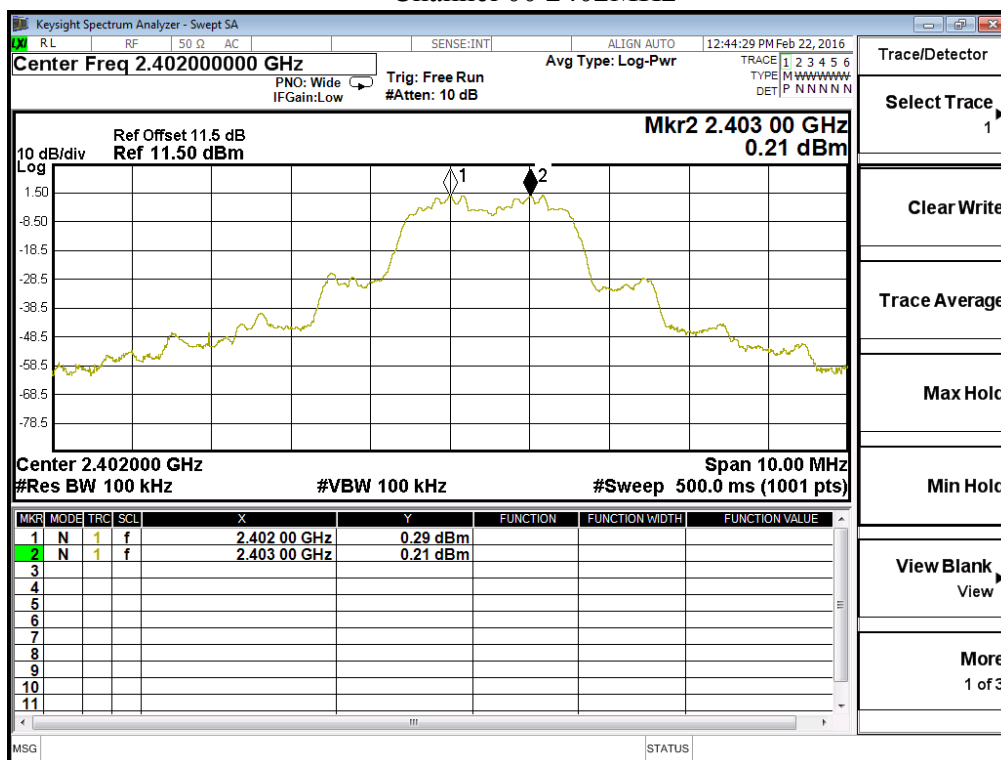


Product : Bluetooth Ring Scanner  
Test Item : Channel Separation  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)

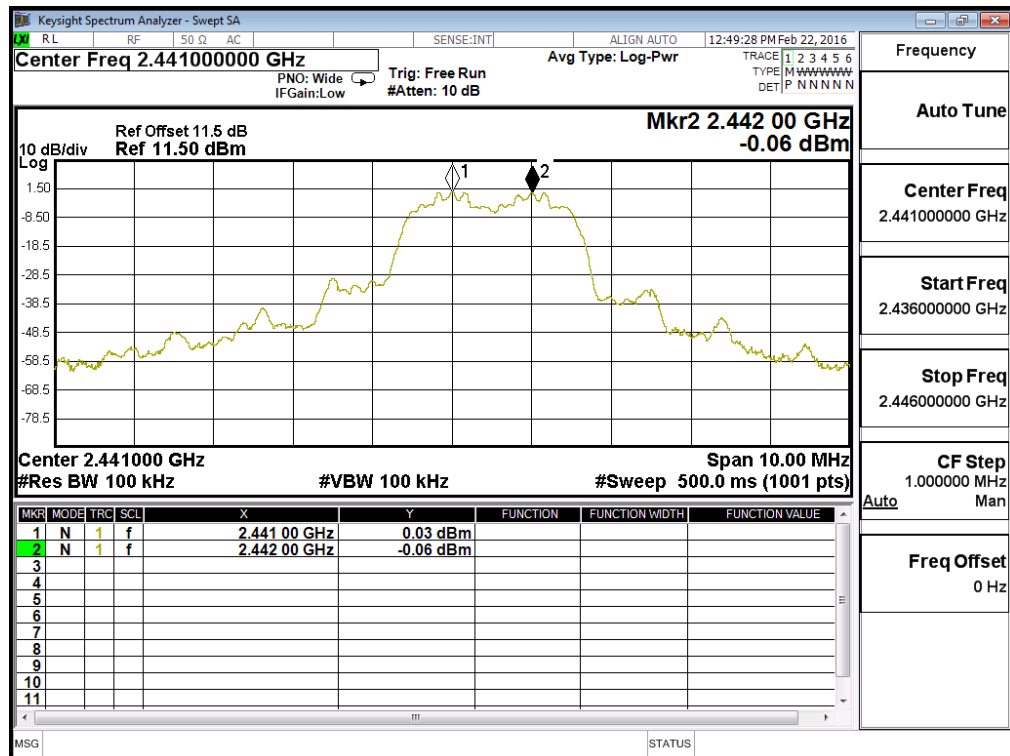
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Limit (kHz)	Limit of (2/3)*20dB Bandwidth (kHz)	Result
00	2402	1000	>25 kHz	851.3	Pass
39	2441	1000	>25 kHz	818.7	Pass
78	2480	1000	>25 kHz	847.3	Pass

NOTE: The 20dB Bandwidth is refer to section 10.

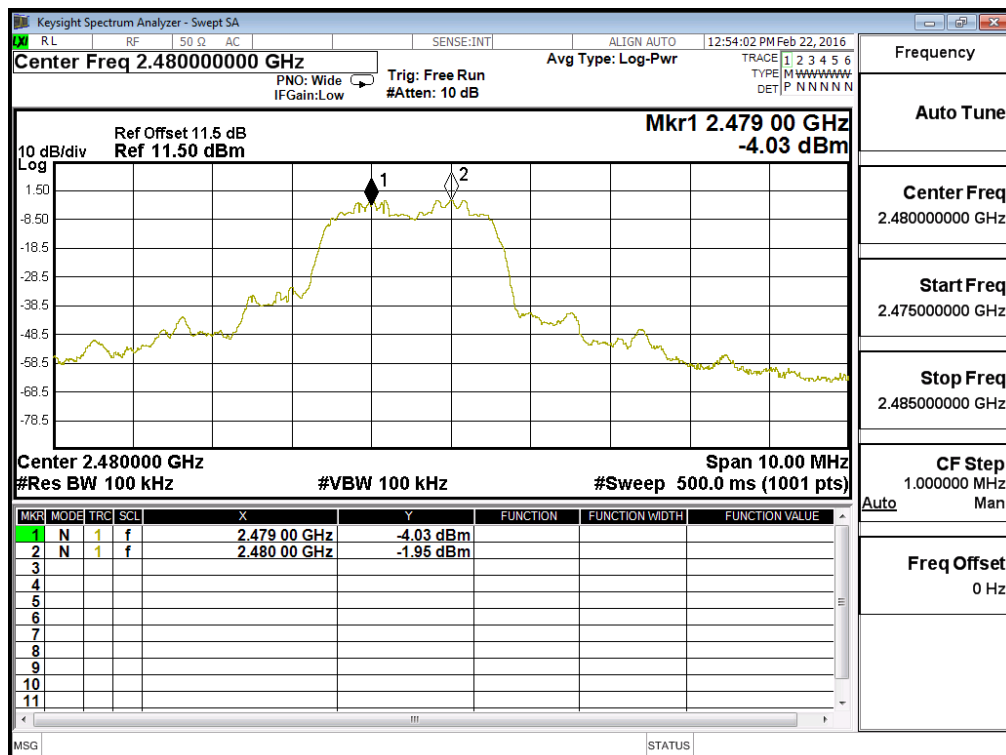
### Channel 00 2402MHz



### Channel 39 2441MHz



### Channel 78 2480 MHz



## 9. Dwell Time

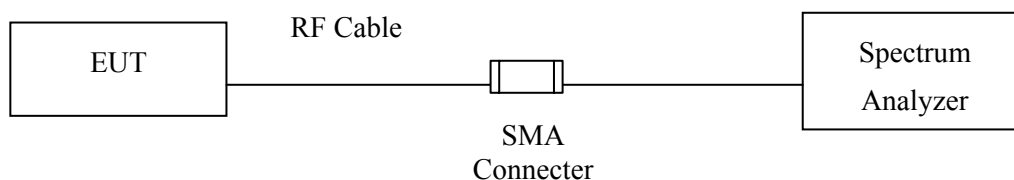
### 9.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

### 9.2. Test Setup



### 9.3. Limit

The dwell time shall be the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

### 9.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

### 9.5. Uncertainty

± 25msec

## 9.6. Test Result of Dwell Time

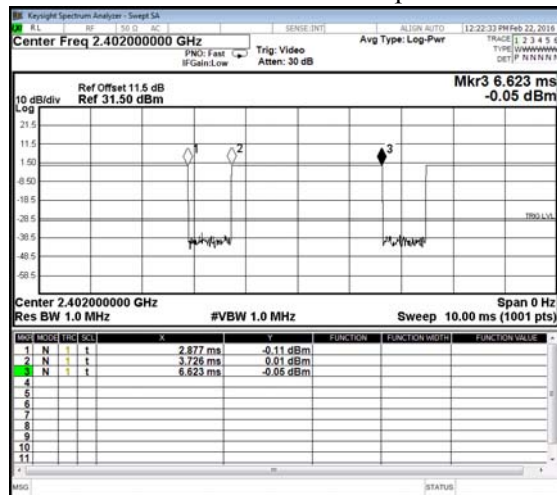
Product : Bluetooth Ring Scanner  
Test Item : Dwell Time  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (Channel 00,39,78 –DH5)

Frequency (MHz)	Time slot length (ms)	Hopping of Number	Sweep time (ms)	Duty cycle	Dwell Time (Sec)	Limit (Sec)	Result
2402	2.897	12	50	0.70	0.278	0.4	Pass
2441	2.897	12	50	0.70	0.278	0.4	Pass
2480	2.897	12	50	0.70	0.278	0.4	Pass

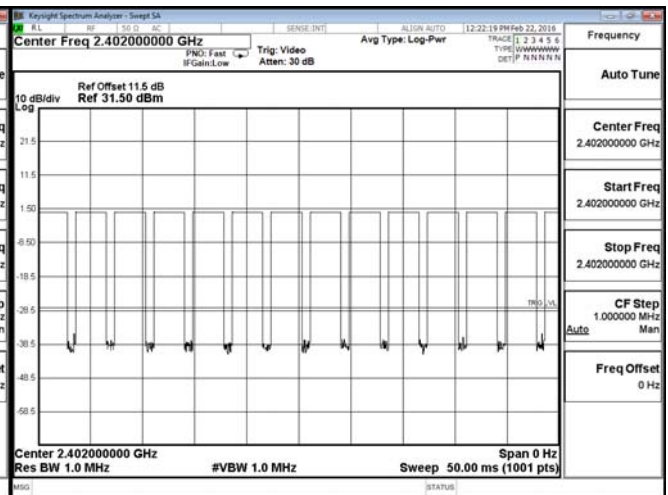
Duty cycle = ((Time slot length (ms)\*Hopping of Number) / Sweep time (ms)

Dwell time = (Duty cycle /79) \* (79\*0.4)

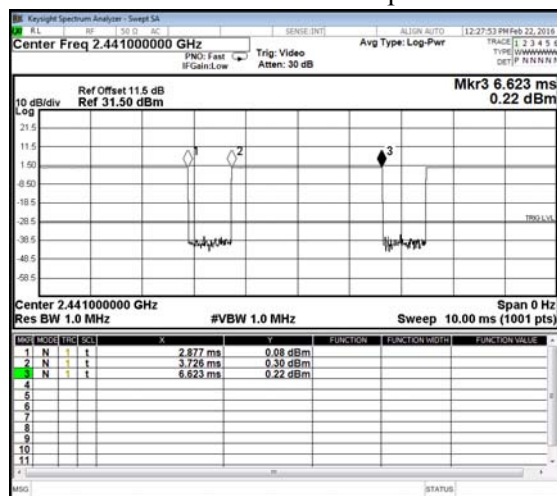
CH 00 Time Interval between hops



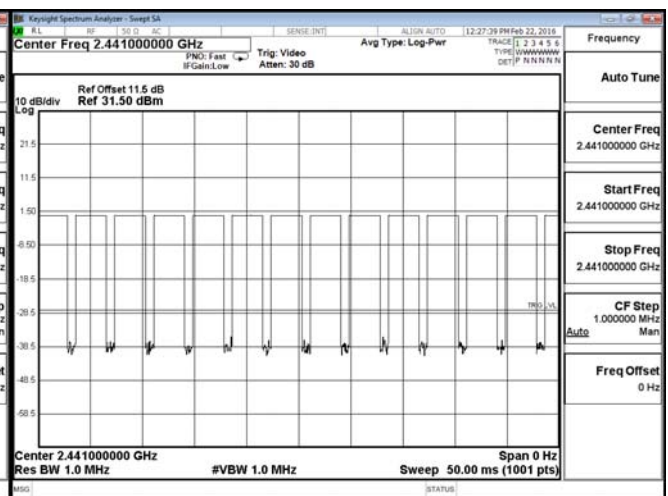
CH 00 Transmission Time



CH39 Time Interval between hops



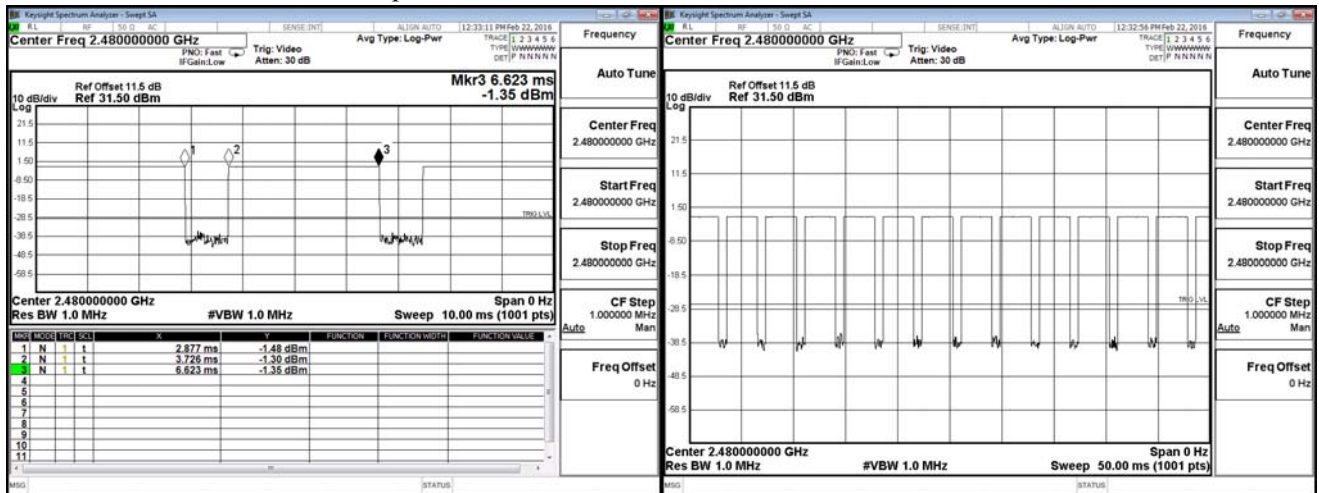
CH 39Transmission Time





## CH 78 Time Interval between hops

## CH 78 Transmission Time



Note:

The dwell times of the packet type of DH1, DH3, and DH5 are tested. Only the worst case is shown on the report.

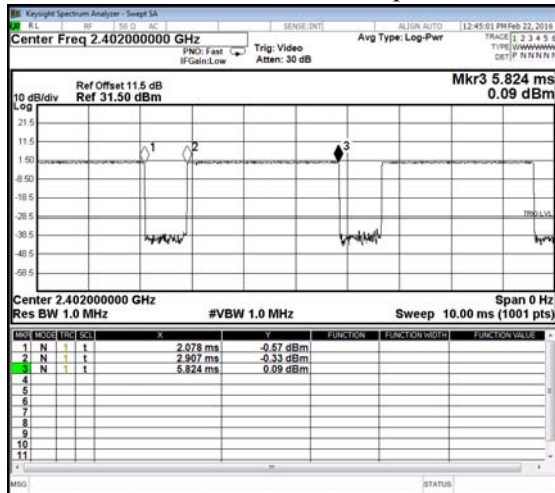
Product : Bluetooth Ring Scanner  
Test Item : Dwell Time  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (Channel 00,39,78 –DH5)

Frequency (MHz)	Time slot length (ms)	Hopping of Number	Sweep time (ms)	Duty cycle	Dwell Time (Sec)	Limit (Sec)	Result
2402	2.917	12	50	0.70	0.280	0.4	Pass
2441	2.917	12	50	0.70	0.280	0.4	Pass
2480	2.907	12	50	0.70	0.279	0.4	Pass

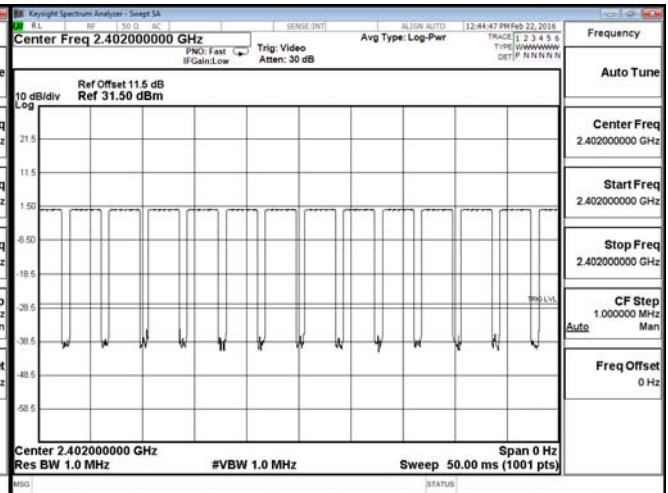
Duty cycle = ((Time slot length (ms)\*Hopping of Number) / Sweep time (ms)

Dwell time = (Duty cycle /79) \* (79\*0.4)

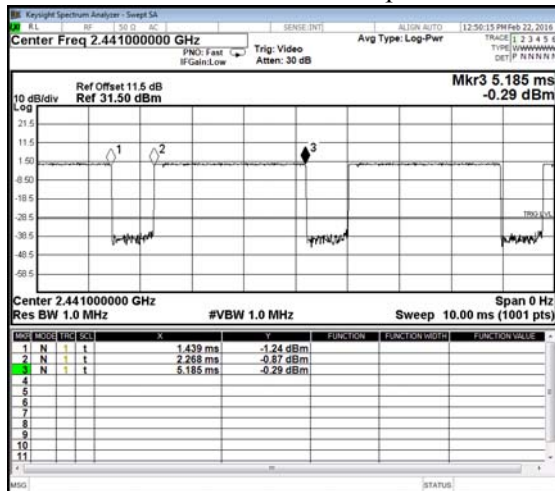
CH 00 Time Interval between hops



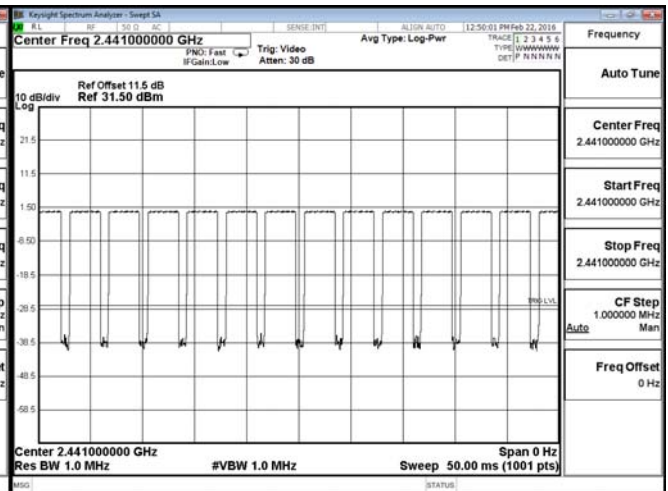
CH 00 Transmission Time



CH39 Time Interval between hops

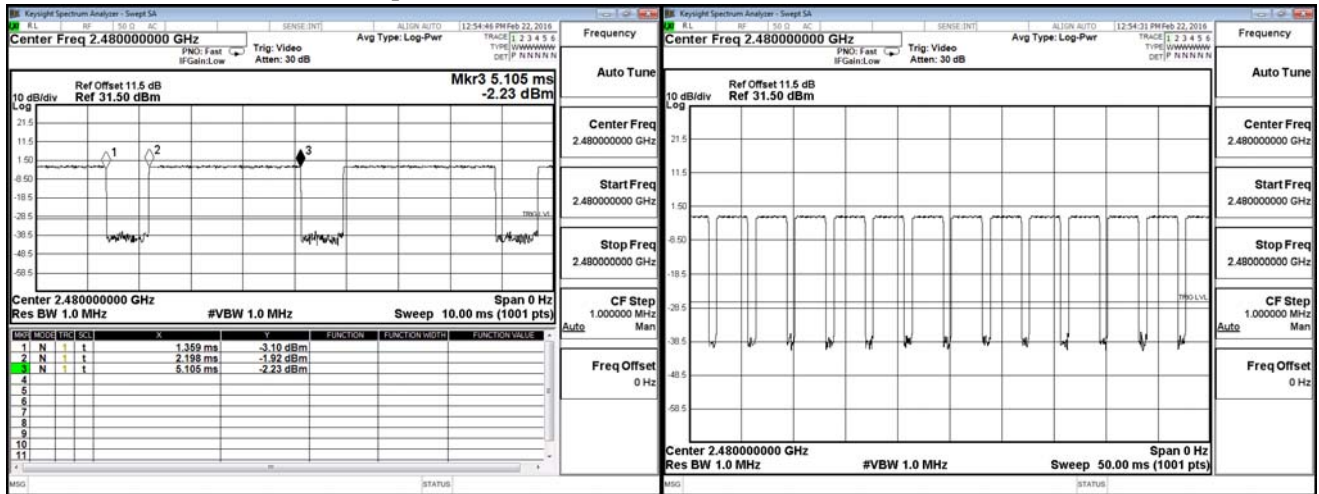


CH 39 Transmission Time



### CH 78 Time Interval between hops

### CH 78 Transmission Time



Note:

The dwell times of the packet type of DH1, DH3, and DH5 are tested. Only the worst case is shown on the report.

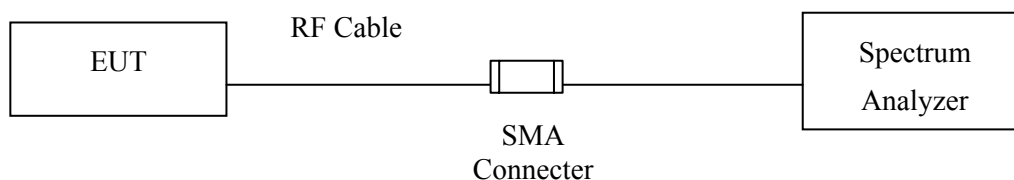
## 10. Occupied Bandwidth

### 10.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated every one year.  
 2. The test instruments marked by “X” are used to measure the final test results.

### 10.2. Test Setup



### 10.3. Limits

N/A

### 10.4. Test Procedure

The EUT was setup to ANSI C63.4, 2014; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

### 10.5. Uncertainty

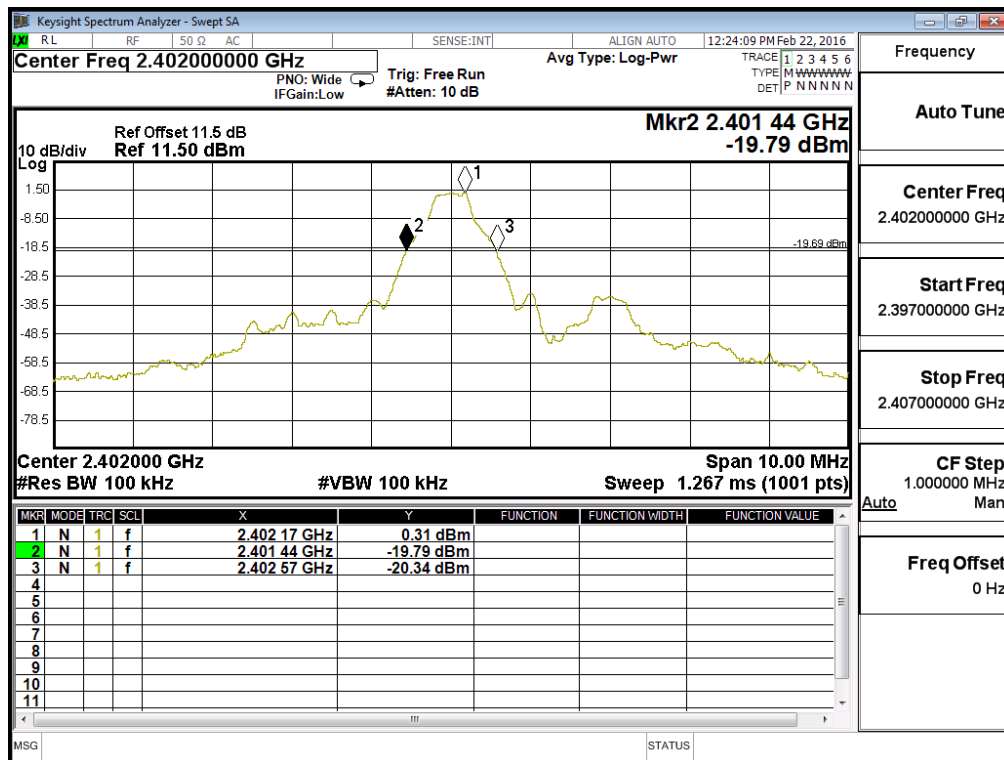
$\pm 150\text{Hz}$

## 10.6. Test Result of Occupied Bandwidth

Product : Bluetooth Ring Scanner  
 Test Item : Occupied Bandwidth Data  
 Test Site : No.3 OATS  
 Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1130	--	NA

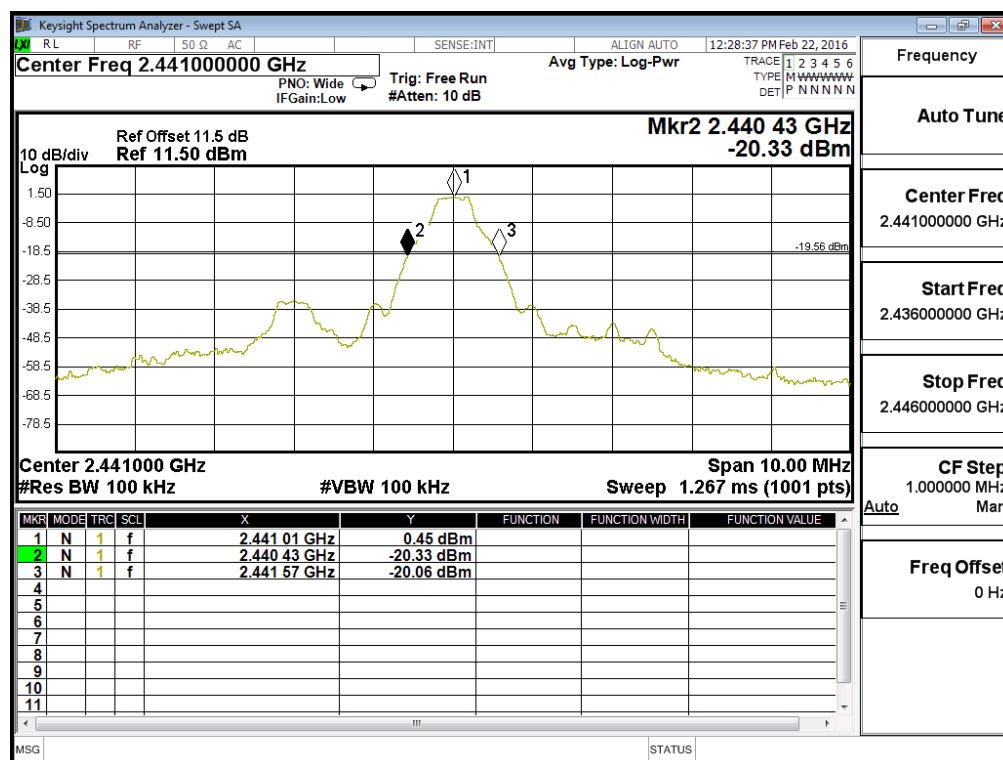
Figure Channel 00:



Product : Bluetooth Ring Scanner  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2441	1140	--	NA

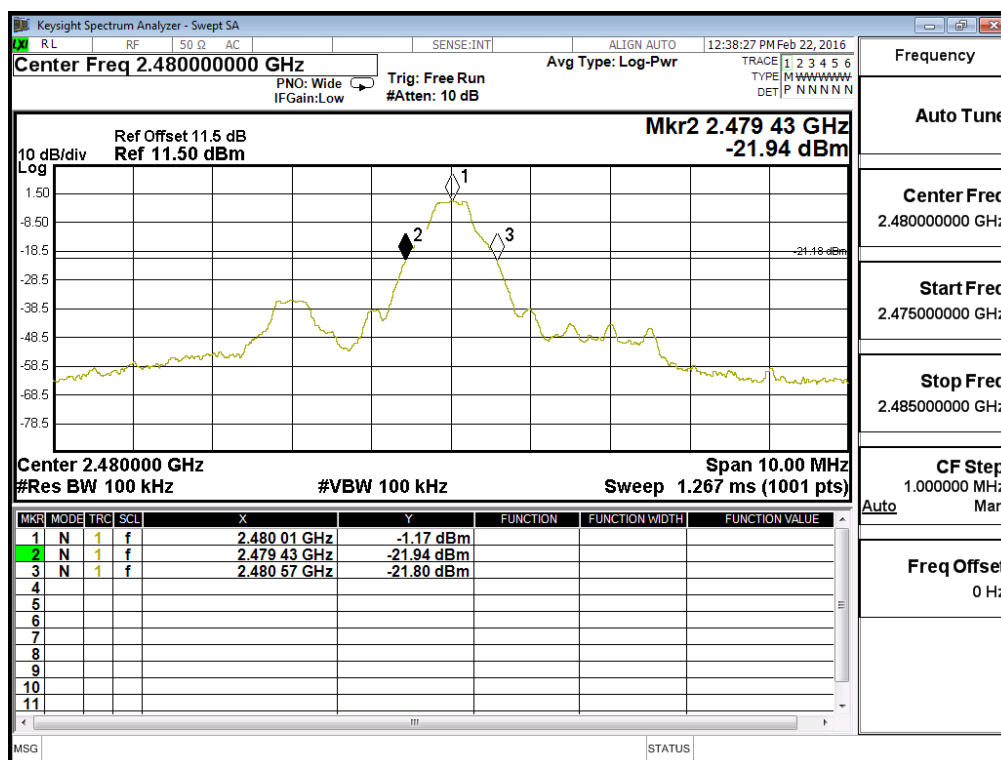
**Figure Channel 39:**



Product : Bluetooth Ring Scanner  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
78	2480	1140	--	NA

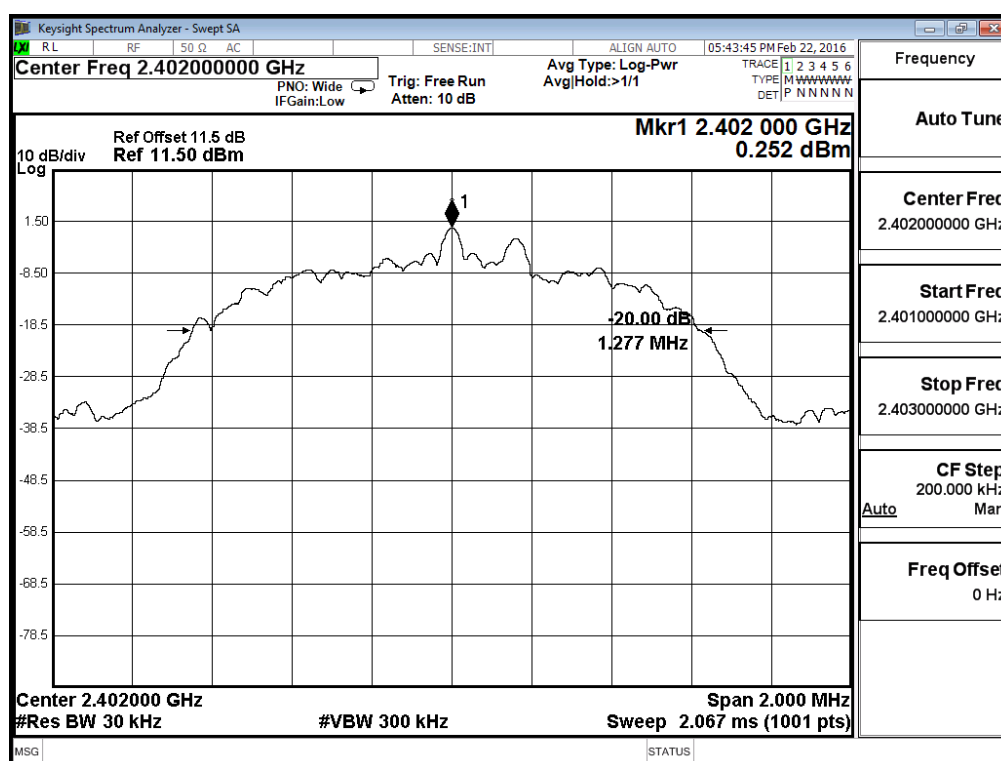
**Figure Channel 78:**



Product : Bluetooth Ring Scanner  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2402MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	1277	--	NA

**Figure Channel 00:**

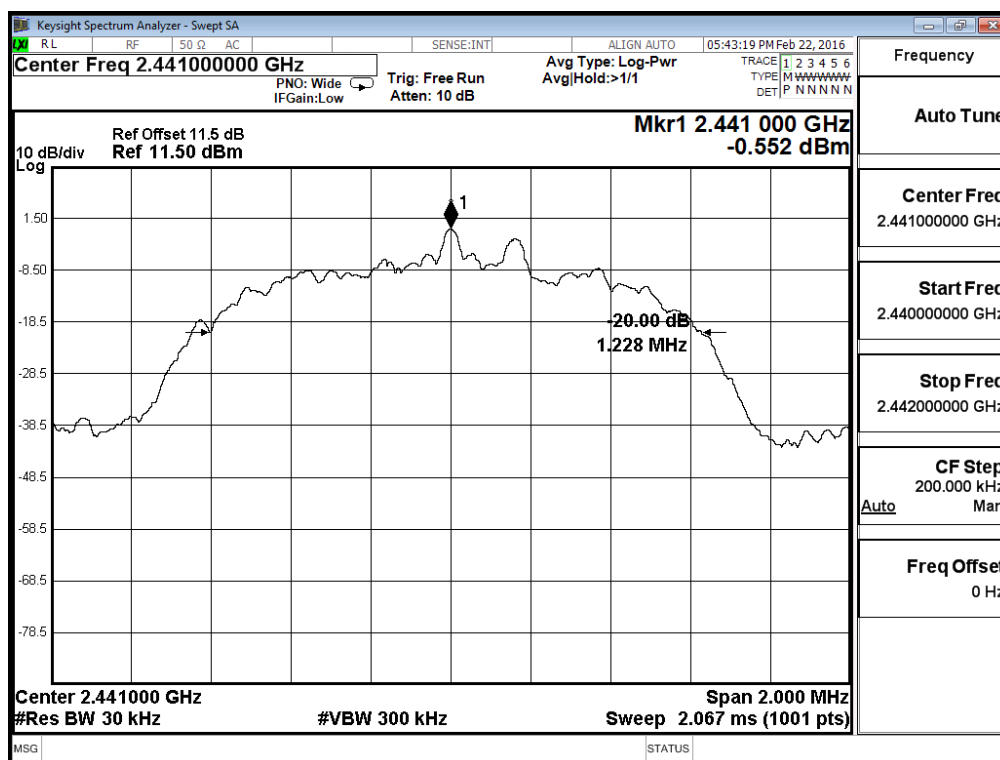




Product : Bluetooth Ring Scanner  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK) (2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
39	2441	1228	--	NA

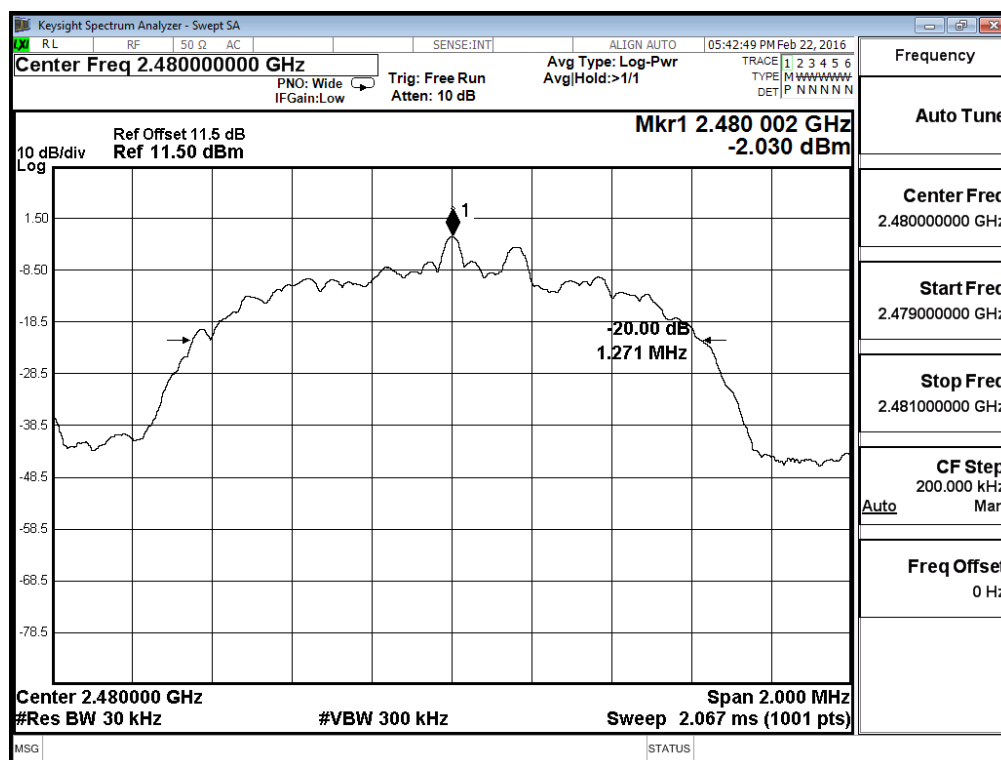
**Figure Channel 39:**



Product : Bluetooth Ring Scanner  
Test Item : Occupied Bandwidth Data  
Test Site : No.3 OATS  
Test Mode : Mode 2: Transmit - 3Mbps (8DPSK)(2480MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
78	2480	1271	--	NA

**Figure Channel 78:**



## **11. EMI Reduction Method During Compliance Testing**

No modification was made during testing.

## Attachment 1: EUT Test Photographs

## Attachment 2: EUT Detailed Photographs