

FCC Test Report

Product Name : Bluetooth Headset

Trade Name : Plantronics

Model No. : B6200

FCC ID. : AL8-V6200

Applicant : Plantronics, Inc.

Address : 345 Encinal Street, Santa Cruz, CA 95060 USA

Date of Receipt : Jul. 27, 2018

Issued Date : Aug. 22, 2018

Report No. : 1870415R-RFUSP01V00

Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

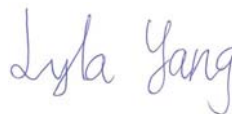
Issued Date : Aug. 22, 2018

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Product Name : Bluetooth Headset
Applicant : Plantronics, Inc.
Address : 345 Encinal Street, Santa Cruz, CA 95060 USA
Manufacturer : Plantronics, Inc.
Model No. : B6200
FCC ID. : AL8-V6200
EUT Voltage : DC 3.7V
Testing Voltage : AC 120V/60Hz (Powered by PC/Charger)
DC 3.7V (Powered by Battery)
Trade Name : Plantronics
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2017
Laboratory Name : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



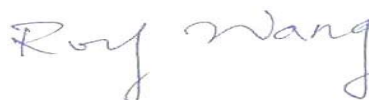
(Lyla Yang / Engineering Adm. Specialist)

Tested By :



(Andy Tsai / Senior Engineer)

Approved By :



(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1870415R-RFUSP01V00	V1.0	Initial issue of report	Aug. 22, 2018

TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description	6
1.2. Test Mode	7
1.3. Tested System Details	8
1.4. Configuration of tested System	8
1.5. EUT Exercise Software	8
1.6. Test Facility	9
1.7. List of Test Equipment	10
1.8. Measurement Uncertainty	12
1.9. Duty cycle	13
2. Conducted Emission	14
2.1. Test Setup	14
2.2. Limits	14
2.3. Test Procedure	15
2.4. Test Specification	15
2.5. Test Result	16
3. Maximum peak conducted output power	20
3.1. Test Setup	20
3.2. Test procedures	20
3.3. Limits	20
3.4. Test Specification	20
3.5. Test Result	21
4. Radiated Emission	22
4.1. Test Setup	22
4.2. Limits	23
4.3. Test Procedure	23
4.4. Test Specification	23
4.5. Test Result	24
5. RF antenna conducted test	42
5.1. Test Setup	42
5.2. Limits	42
5.3. Test Procedure	42
5.4. Test Specification	42
5.5. Test Result	43
6. Band Edge	47
6.1. Test Setup	47
6.2. Limits	47
6.3. Test Procedure	47
6.4. Test Specification	47
6.5. Test Result	48
7. Occupied Bandwidth & DTS Bandwidth	60
7.1. Test Setup	60

7.2.	Limits.....	60
7.3.	Test Procedures	60
7.4.	Test Specification	60
7.5.	Test Result	61
8.	Power Density	65
8.1.	Test Setup	65
8.2.	Limits.....	65
8.3.	Test Procedures	65
8.4.	Test Specification	65
8.5.	Test Result	66
Attachment 1		68
	Test Setup Photograph.....	68
Attachment 2.....		74
	EUT External Photograph	74
Attachment 3.....		79
	EUT Internal Photograph	79

1. General Information

1.1. EUT Description

Product Name	Bluetooth Headset
Trade Name	Plantronics
Model No.	B6200
Frequency Range	2402~2480MHz
Channel Number	40 Channels
Type of Modulation	GFSK

Accessories Information	
Micro-USB Cable	Shielded, 1m.
Charger Stand	1Set

Antenna Information	
MFR. / Model No.	GoerTek / B6200
Antenna Type	Stamping Antenna
Antenna Gain	2.5dBi

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 10	2422 MHz	Channel 20	2442 MHz	Channel 30	2462 MHz
Channel 01	2404 MHz	Channel 11	2424 MHz	Channel 21	2444 MHz	Channel 31	2464 MHz
Channel 02	2406 MHz	Channel 12	2426 MHz	Channel 22	2446 MHz	Channel 32	2466 MHz
Channel 03	2408 MHz	Channel 13	2428 MHz	Channel 23	2448 MHz	Channel 33	2468 MHz
Channel 04	2410 MHz	Channel 14	2430 MHz	Channel 24	2450 MHz	Channel 34	2470 MHz
Channel 05	2412 MHz	Channel 15	2432 MHz	Channel 25	2452 MHz	Channel 35	2472 MHz
Channel 06	2414 MHz	Channel 16	2434 MHz	Channel 26	2454 MHz	Channel 36	2474 MHz
Channel 07	2416 MHz	Channel 17	2436 MHz	Channel 27	2456 MHz	Channel 37	2476 MHz
Channel 08	2418 MHz	Channel 18	2438 MHz	Channel 28	2458 MHz	Channel 38	2478 MHz
Channel 09	2420 MHz	Channel 19	2440 MHz	Channel 29	2460 MHz	Channel 39	2480 MHz

Note:

1. This device is a Bluetooth Headset supports BLE transmitting function.
2. Regards to the frequency band operation; the lowest 、middle and highest frequency of channel were selected to perform the test, and then shown on this report.

1.2. Test Mode

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Test Mode	Mode 1: Transmit Mode (Powered by PC) Mode 2: Powered by Battery Mode 3: Powered by Charger
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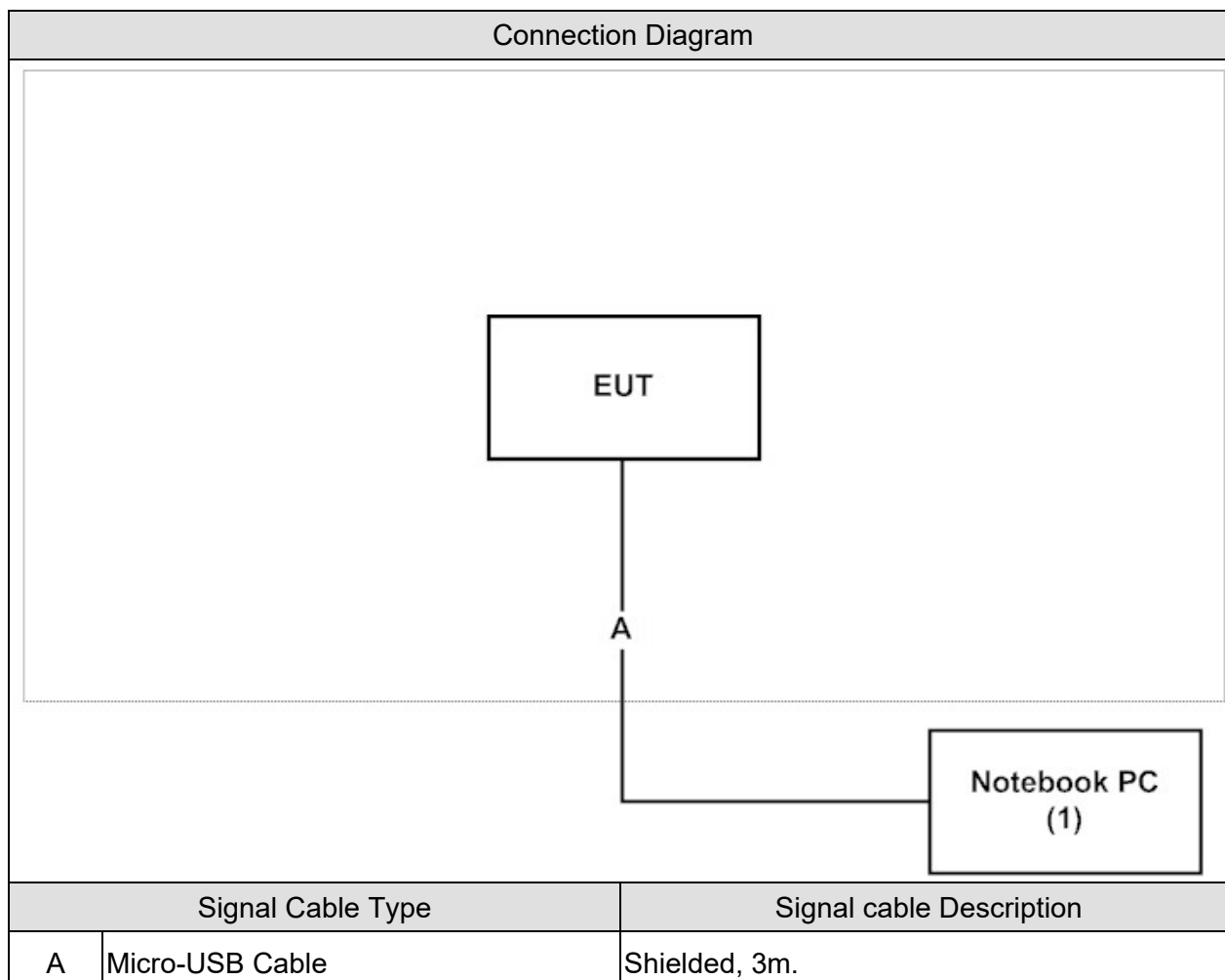
Test Items	Modulation	Channel	Result
Conducted Emission	GFSK	19	Complies
Maximum peak conducted output power	GFSK	00/19/39	Complies
Radiated Emission	GFSK	00/19/39	Complies
RF antenna conducted test	GFSK	00/19/39	Complies
Radiated Emission Band Edge	GFSK	00/19/39	Complies
Occupied Bandwidth & DTS Bandwidth	GFSK	00/19/39	Complies
Power Density	GFSK	00/19/39	Complies

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.	FCC ID	Power Cord
1 Notebook PC	DELL	Latitude 610	N/A	DoC	Non-Shielded, 1.7m, one ferrite core bonded

1.4. Configuration of tested System



1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the "Blue Test 3" on the laptop.
3	Configure the test mode, the test channel, and the data rate.
4	Press "Start TX" to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual	Test Site
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	20	3
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Maximum peak conducted output power	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25	2
Humidity (%RH)		25 - 75	54	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25	2
Humidity (%RH)		25 - 75	50	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth & DTS Bandwidth	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	24	3
Humidity (%RH)		25 - 75	45	
Barometric pressure (mbar)		860 - 1060	950-1000	

Note: Test site information refers to Laboratory Information.

Laboratory Information

USA : FCC, Registration Number: TW3024

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site :

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our test sites as below:

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1.7. List of Test Equipment

Conducted Emission / SR2-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2018/01/22	2019/01/21
Test Receiver	R&S	ESCS 30	836858/022	2018/03/30	2019/03/29
LISN	R&S	ENV216	100092	2018/07/23	2019/07/22

Maximum peak conducted output power / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2018/01/02	2019/01/01
Pulse Power Sensor	Anritsu	MA2411B	1531043	2018/01/02	2019/01/01
Pulse Power Sensor	Anritsu	MA2411B	1531044	2018/01/02	2019/01/01
Power Meter	Keysight	8990B	MY51000248	2018/06/07	2019/06/06
Power Sensor	Keysight	N1923A	MY57240005	2018/06/07	2019/06/06

Radiated Emission / CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12

RF antenna conducted test / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Band Edge / CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2017/11/21	2018/11/20
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2018/03/05	2019/03/04
Bilog Antenna	Teseq	CBL6112D	23191	2018/06/26	2019/06/25
Horn Antenna	Schwarzbeck	BBHA 9120D	639	2018/06/01	2019/05/31
Horn Antenna	Schwarzbeck	BBHA 9170	202	2018/01/31	2019/01/30
Pre-Amplifier	Dekra	AP-025C	201801236	2018/02/26	2019/02/25
Pre-Amplifier	EMCI	EMC11830I	980366	2018/01/08	2019/01/07
Pre-Amplifier	Dekra	AP-400C	201801231	2017/12/13	2018/12/12

DTS Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	Keysight	N9030B	MY57140404	2018/06/26	2019/06/25
Spectrum Analyzer	Keysight	N9010B	MY57110159	2018/05/25	2019/05/24
Spectrum Analyzer	Agilent	N9010A	US47140172	2018/07/18	2019/07/17
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/10	2019/01/09

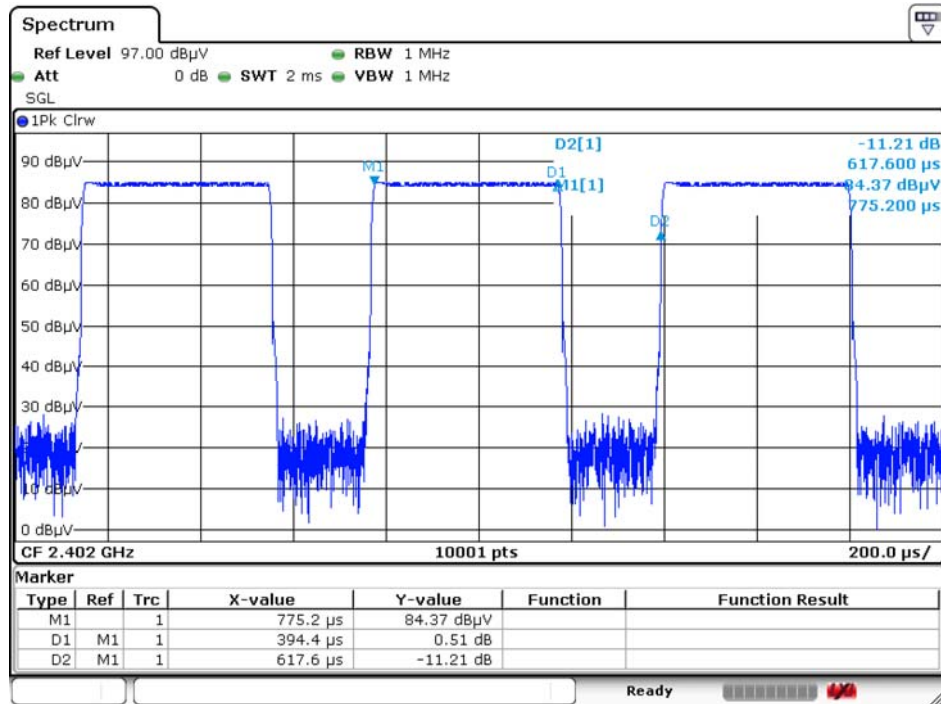
1.8. Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission	± 2.26 dB
Maximum peak conducted output power	± 1.27 dB
Radiated Emission (30MHz~1GHz)	± 3.43 dB
Radiated Emission (1GHz~26.5GHz)	± 3.65 dB
RF antenna conducted test	± 1.27 dB
Band Edge	Conducted is defined as ± 1.27 dB Radiated is defined as ± 3.9 dB
Occupied Bandwidth & DTS Bandwidth	± 50 kHz
Power Density	± 1.27 dB

1.9. Duty cycle

On Time (ms)	ON+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
0.394	0.618	63.86%	1.95	2.54

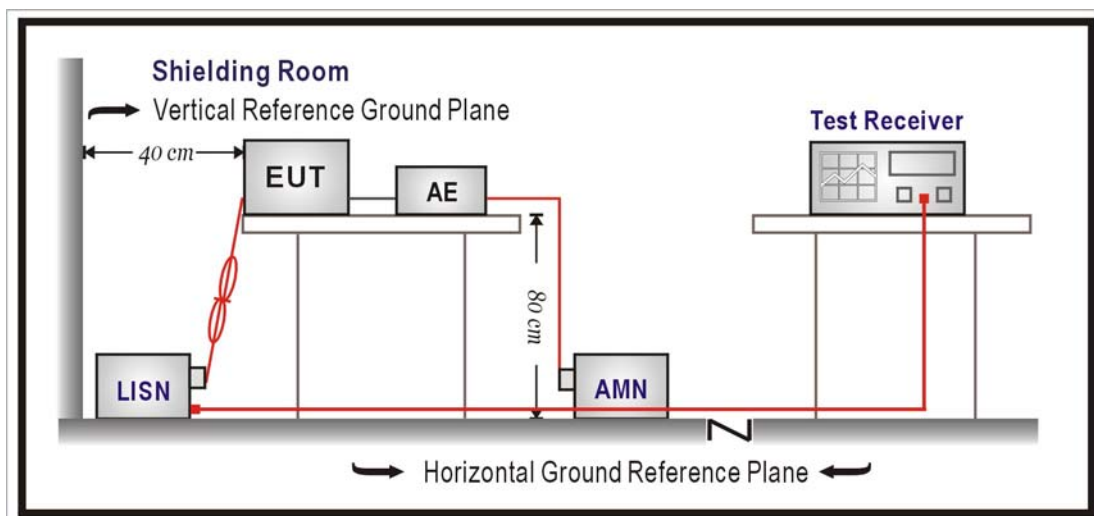
2402MHz



Date: 2.AUG.2018 02:35:08

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	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.

2.3. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

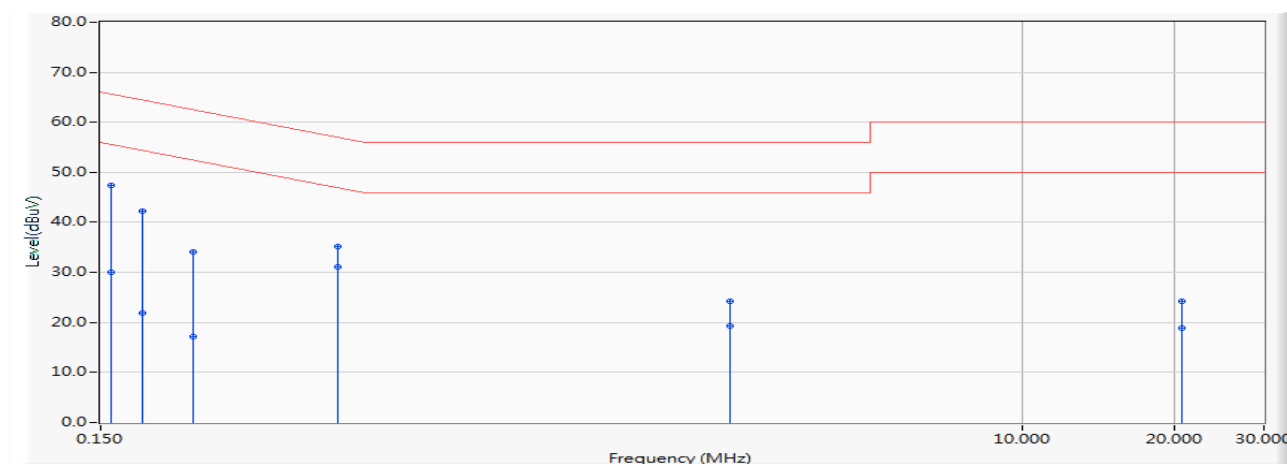
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2017

2.5. Test Result

Site : SR2-H	Time : 2018/08/20
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2440MHz

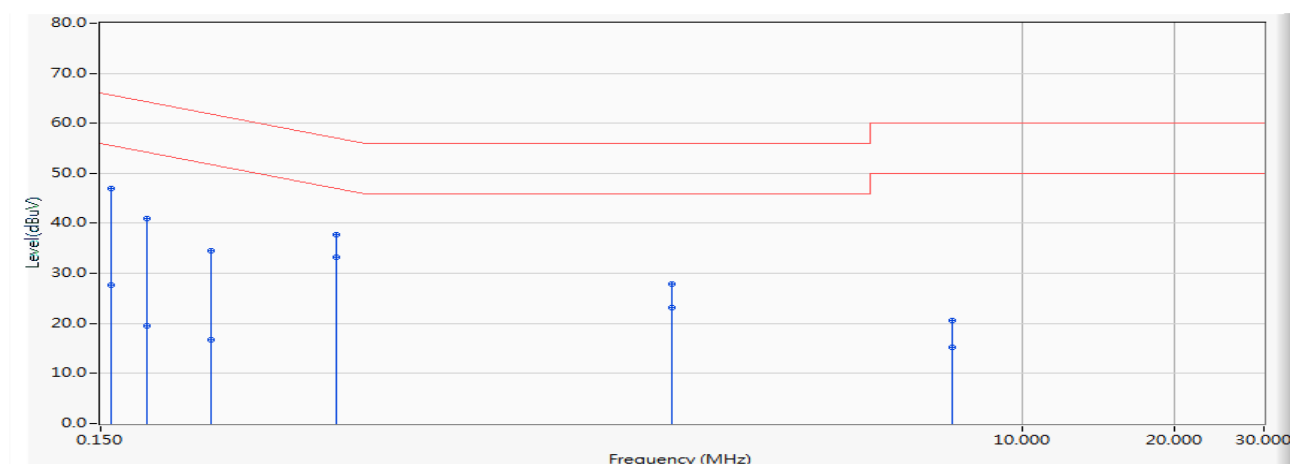


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	37.820	47.497	-18.081	65.578	QUASIPeAK
2		0.158	9.677	20.410	30.087	-25.491	55.578	AVERAGE
3		0.181	9.680	32.640	42.320	-22.108	64.428	QUASIPeAK
4		0.181	9.680	12.150	21.830	-32.598	54.428	AVERAGE
5		0.228	9.680	24.520	34.200	-28.318	62.518	QUASIPeAK
6		0.228	9.680	7.510	17.190	-35.328	52.518	AVERAGE
7		0.443	9.681	25.520	35.201	-21.805	57.006	QUASIPeAK
8	*	0.443	9.681	21.430	31.111	-15.895	47.006	AVERAGE
9		2.642	9.803	14.380	24.183	-31.817	56.000	QUASIPeAK
10		2.642	9.803	9.570	19.373	-26.627	46.000	AVERAGE
11		20.591	10.414	13.740	24.154	-35.846	60.000	QUASIPeAK
12		20.591	10.414	8.500	18.914	-31.086	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/20
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2440MHz

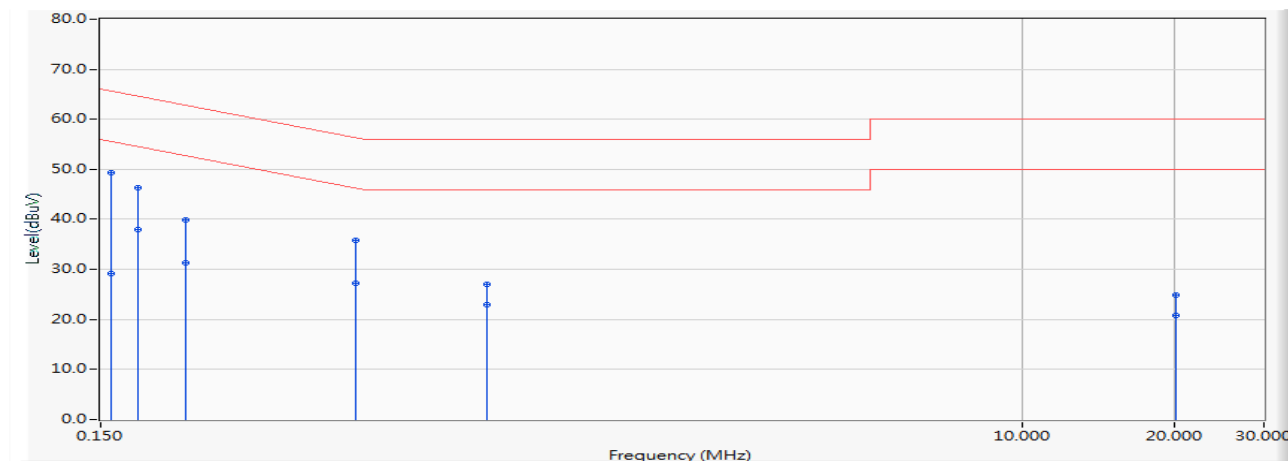


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.158	9.677	37.380	47.057	-18.521	65.578	QUASIPeAK
2		0.158	9.677	18.040	27.717	-27.861	55.578	AVERAGE
3		0.185	9.680	31.260	40.940	-23.311	64.251	QUASIPeAK
4		0.185	9.680	9.740	19.420	-34.831	54.251	AVERAGE
5		0.248	9.680	24.840	34.520	-27.315	61.835	QUASIPeAK
6		0.248	9.680	7.050	16.730	-35.105	51.835	AVERAGE
7		0.439	9.681	28.060	37.741	-19.339	57.079	QUASIPeAK
8	*	0.439	9.681	23.650	33.331	-13.749	47.079	AVERAGE
9		2.017	9.800	18.040	27.840	-28.160	56.000	QUASIPeAK
10		2.017	9.800	13.450	23.250	-22.750	46.000	AVERAGE
11		7.244	9.942	10.560	20.502	-39.498	60.000	QUASIPeAK
12		7.244	9.942	5.390	15.332	-34.668	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/20
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-B127_LISN(16A)-8 - Line1	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 3: Powered by Charger

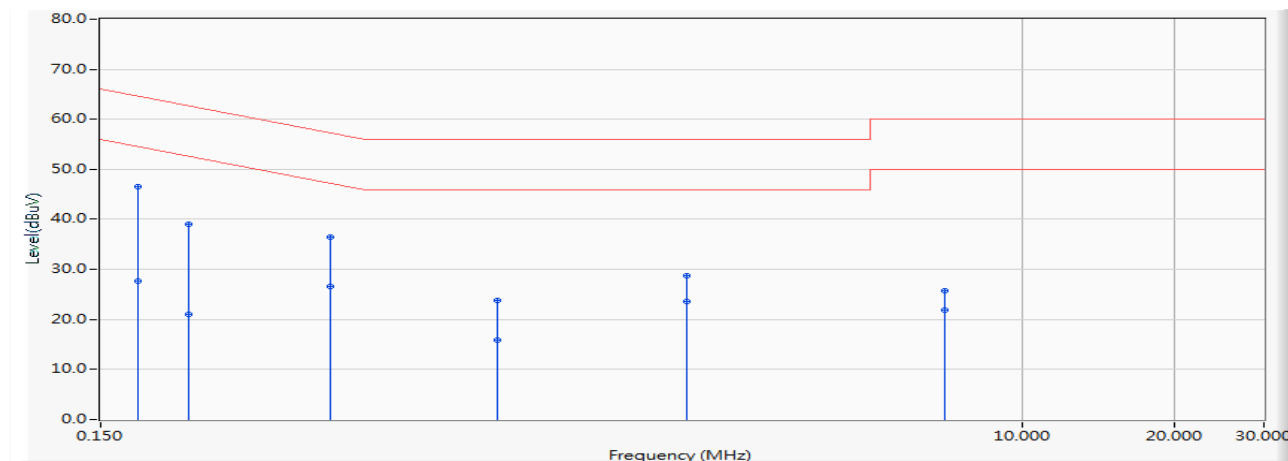


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.158	9.677	39.680	49.357	-16.221	65.578	QUASIPeAK
2		0.158	9.677	19.570	29.247	-26.331	55.578	AVERAGE
3		0.177	9.680	36.740	46.420	-18.189	64.609	QUASIPeAK
4		0.177	9.680	28.250	37.930	-16.679	54.609	AVERAGE
5		0.220	9.680	30.120	39.800	-23.007	62.807	QUASIPeAK
6		0.220	9.680	21.670	31.350	-21.457	52.807	AVERAGE
7		0.478	9.681	26.120	35.801	-20.570	56.372	QUASIPeAK
8		0.478	9.681	17.630	27.311	-19.060	46.372	AVERAGE
9		0.869	9.762	17.160	26.921	-29.079	56.000	QUASIPeAK
10		0.869	9.762	13.120	22.881	-23.119	46.000	AVERAGE
11		20.056	10.410	14.460	24.870	-35.130	60.000	QUASIPeAK
12		20.056	10.410	10.290	20.700	-29.300	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2-H	Time : 2018/08/20
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2-B127_LISN(16A)-8 - Line2	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 3: Powered by Charger



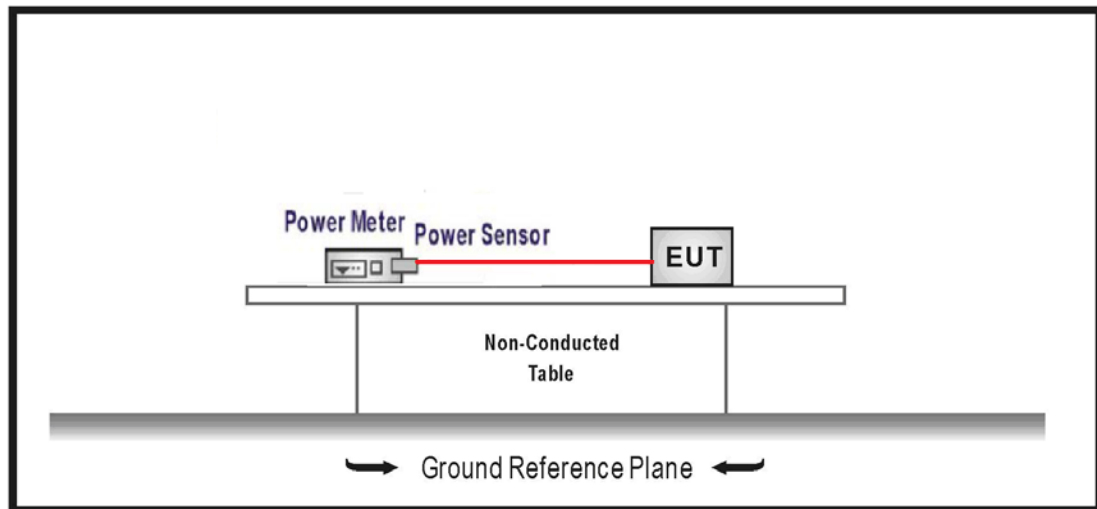
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.177	9.680	36.920	46.600	-18.009	64.609	QUASIPeAK
2		0.177	9.680	18.090	27.770	-26.839	54.609	AVERAGE
3		0.224	9.680	29.300	38.980	-23.681	62.661	QUASIPeAK
4		0.224	9.680	11.330	21.010	-31.651	52.661	AVERAGE
5		0.427	9.680	26.720	36.400	-20.904	57.304	QUASIPeAK
6		0.427	9.680	16.810	26.490	-20.814	47.304	AVERAGE
7		0.912	9.771	14.120	23.891	-32.109	56.000	QUASIPeAK
8		0.912	9.771	6.050	15.821	-30.179	46.000	AVERAGE
9		2.162	9.802	19.000	28.802	-27.198	56.000	QUASIPeAK
10		2.162	9.802	13.890	23.692	-22.308	46.000	AVERAGE
11		7.017	9.931	15.800	25.731	-34.269	60.000	QUASIPeAK
12		7.017	9.931	11.930	21.861	-28.139	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

3.5. Test Result

Product	Bluetooth Headset		
Test Item	Maximum peak conducted output power		
Test Mode	Mode 1: Transmit Mode (Powered by PC)		
Date of Test	2018/08/02	Test Site	SR10-H

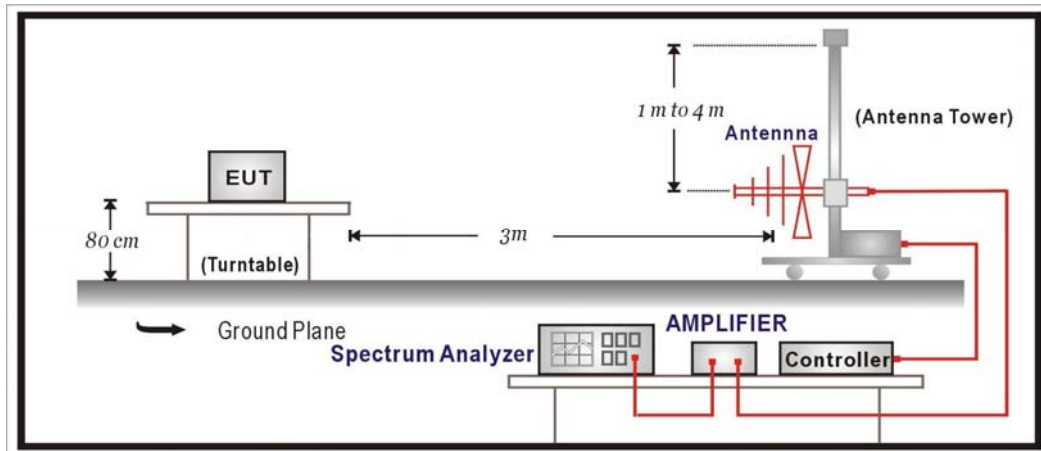
GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	8.300	30	Pass
19	2440	8.790	30	Pass
39	2480	9.050	30	Pass

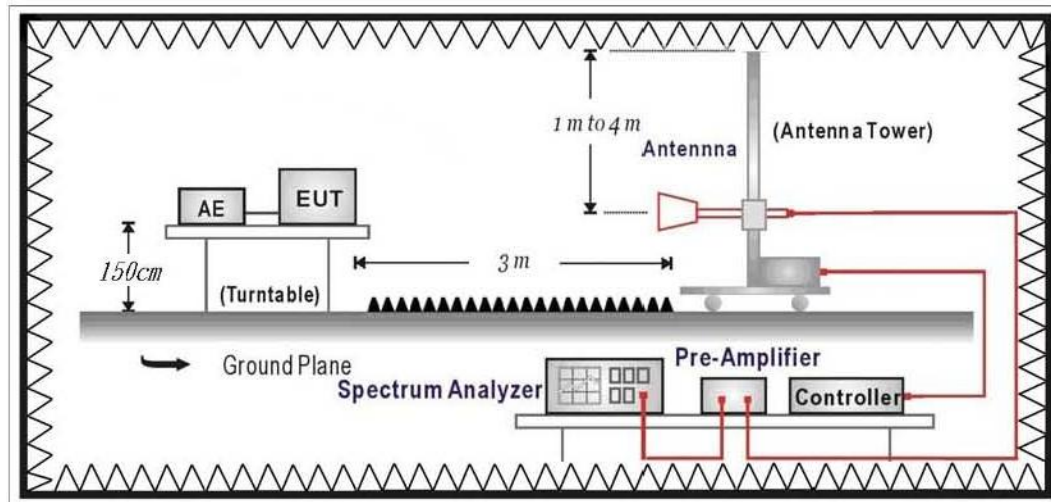
4. Radiated Emission

4.1. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. 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	dBuV/m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remarks: 1. RF Voltage (dBuV) = 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.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

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.

On any frequency or frequencies from 9KHz(inclde The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

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

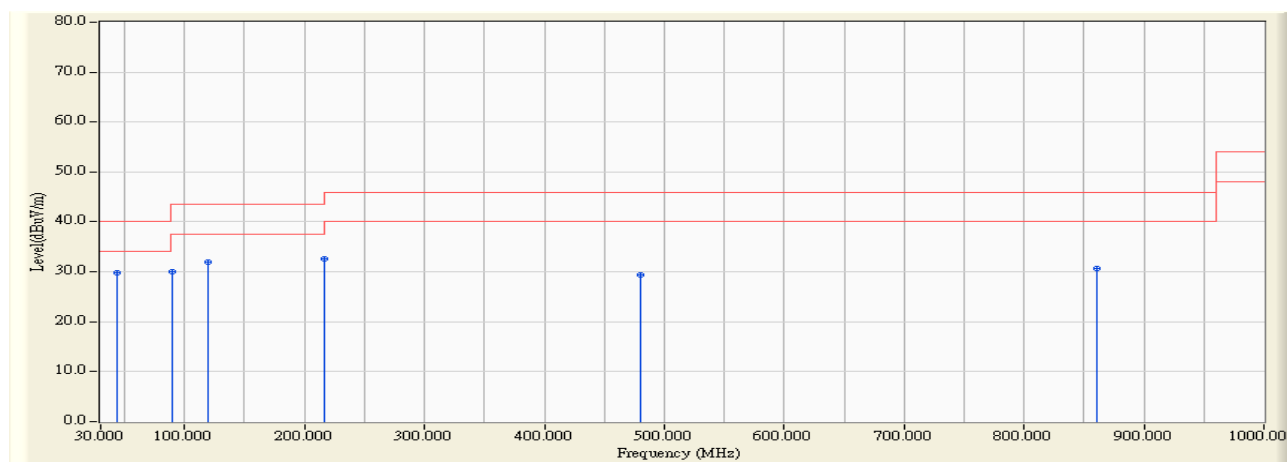
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247

4.5. Test Result

30MHz-1GHz Spurious

Site : CB4-H	Time : 2018/08/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2440MHz

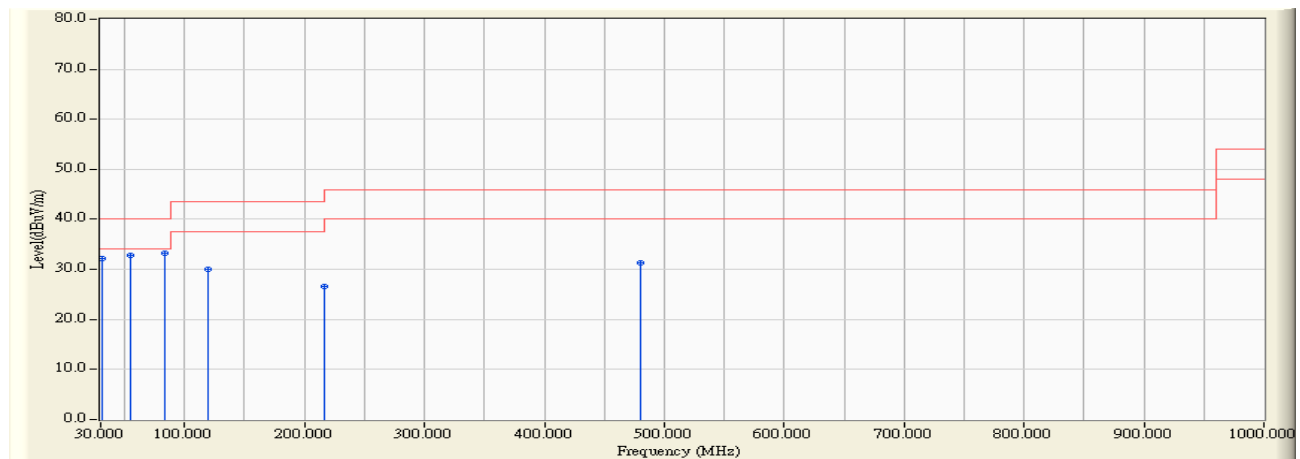


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	43.871	-19.565	49.409	29.844	-10.156	40.000	QUASIPeAK
2		89.073	-24.134	54.099	29.965	-13.535	43.500	QUASIPeAK
3		119.919	-19.955	51.832	31.877	-11.623	43.500	QUASIPeAK
4		216.046	-22.195	54.812	32.617	-13.383	46.000	QUASIPeAK
5		480.080	-13.781	43.134	29.353	-16.647	46.000	QUASIPeAK
6		860.320	-9.616	40.374	30.758	-15.242	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4 FCC EFS S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2440MHz

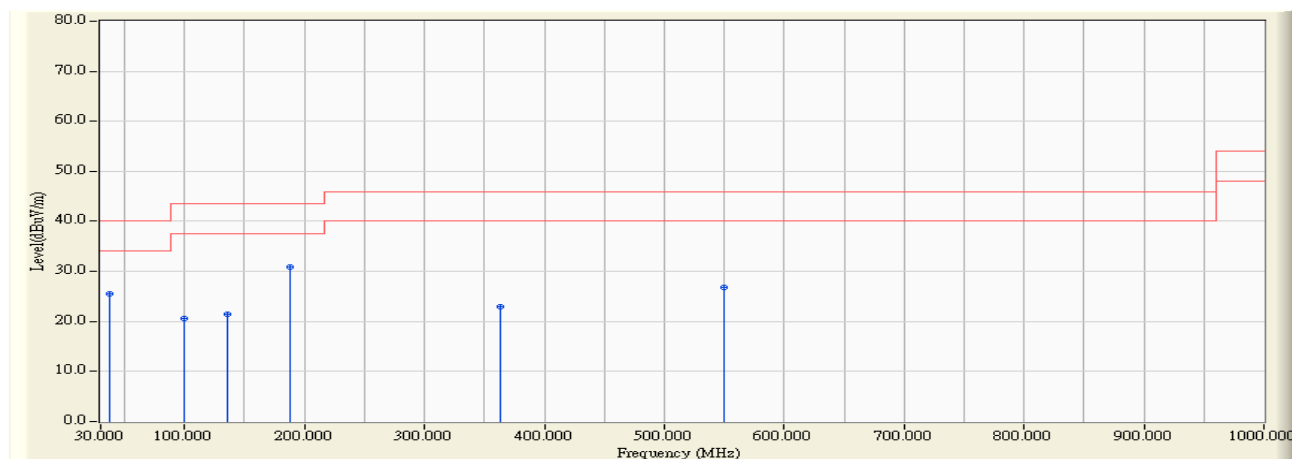


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		30.679	-14.640	46.743	32.103	-7.897	40.000	QUASIPeAK
2		54.735	-23.812	56.720	32.908	-7.092	40.000	QUASIPeAK
3	*	83.932	-25.043	58.331	33.288	-6.712	40.000	QUASIPeAK
4		120.016	-19.971	50.062	30.090	-13.410	43.500	QUASIPeAK
5		215.949	-22.221	48.794	26.573	-16.927	43.500	QUASIPeAK
6		479.886	-13.836	45.221	31.386	-14.614	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Bluetooth Headset	Note : Mode 2: Powered by Battery

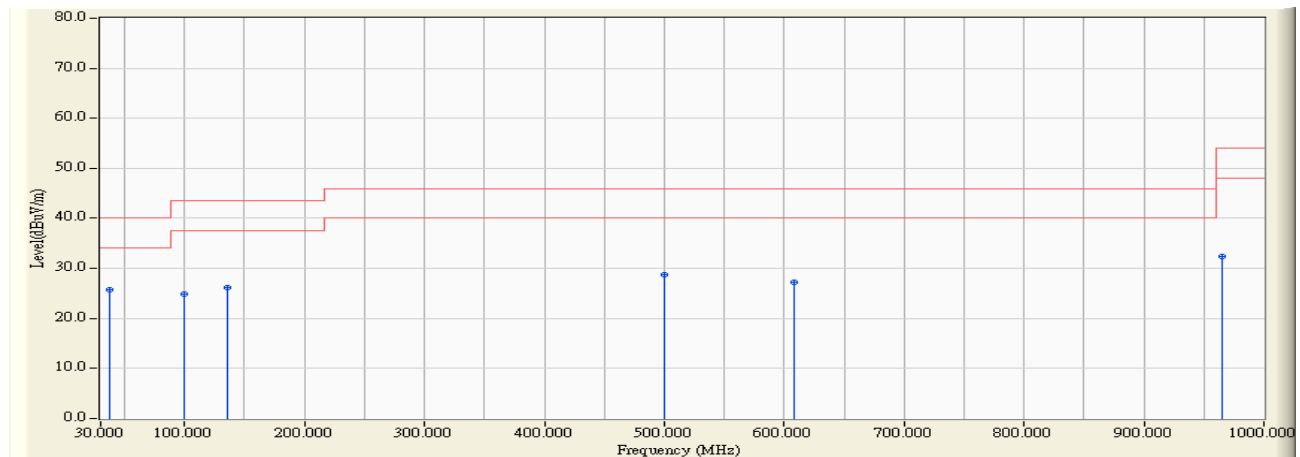


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		37.566	-12.220	37.822	25.602	-14.398	40.000	QUASIPeAK
2		99.258	-22.543	43.042	20.499	-23.001	43.500	QUASIPeAK
3		135.148	-20.337	41.890	21.553	-21.947	43.500	QUASIPeAK
4	*	188.013	-23.368	54.222	30.855	-12.645	43.500	QUASIPeAK
5		363.583	-16.588	39.490	22.902	-23.098	46.000	QUASIPeAK
6		549.241	-13.036	39.939	26.903	-19.097	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4 FCC EFS S2_30M-1GHz_1116 - VERTICAL	Power : DC 3.7V
EUT : Bluetooth Headset	Note : Mode 2: Powered by Battery

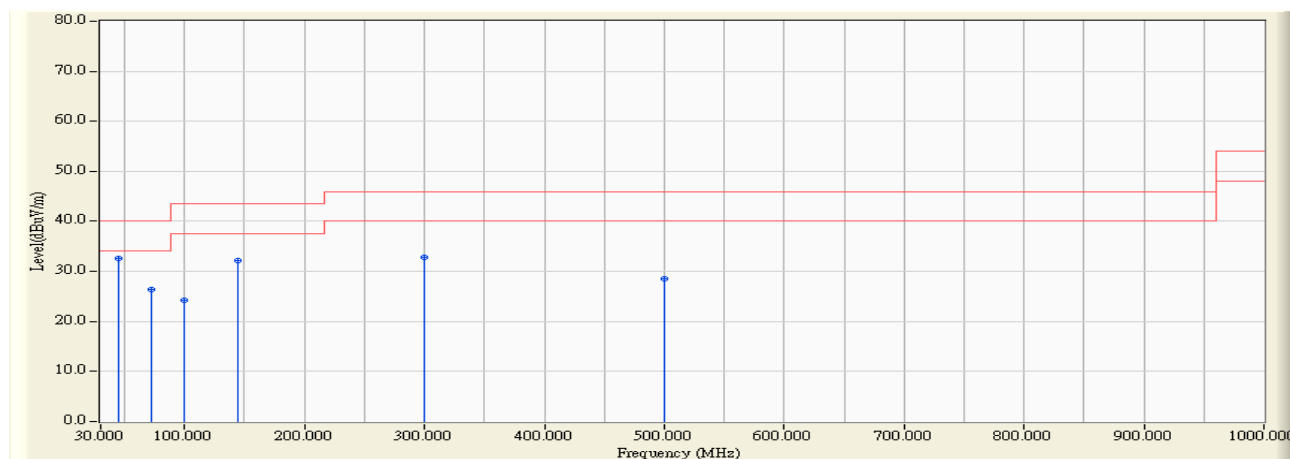


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	37.275	-12.103	37.763	25.660	-14.340	40.000	QUASIPeAK
2		99.258	-22.543	47.483	24.940	-18.560	43.500	QUASIPeAK
3		135.148	-20.337	46.569	26.232	-17.268	43.500	QUASIPeAK
4		500.062	-14.577	43.306	28.728	-17.272	46.000	QUASIPeAK
5		608.605	-12.162	39.487	27.325	-18.675	46.000	QUASIPeAK
6		964.692	-8.351	40.637	32.287	-21.713	54.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4_FCC_EFS_S2_30M-1GHz_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 3: Powered by Charger

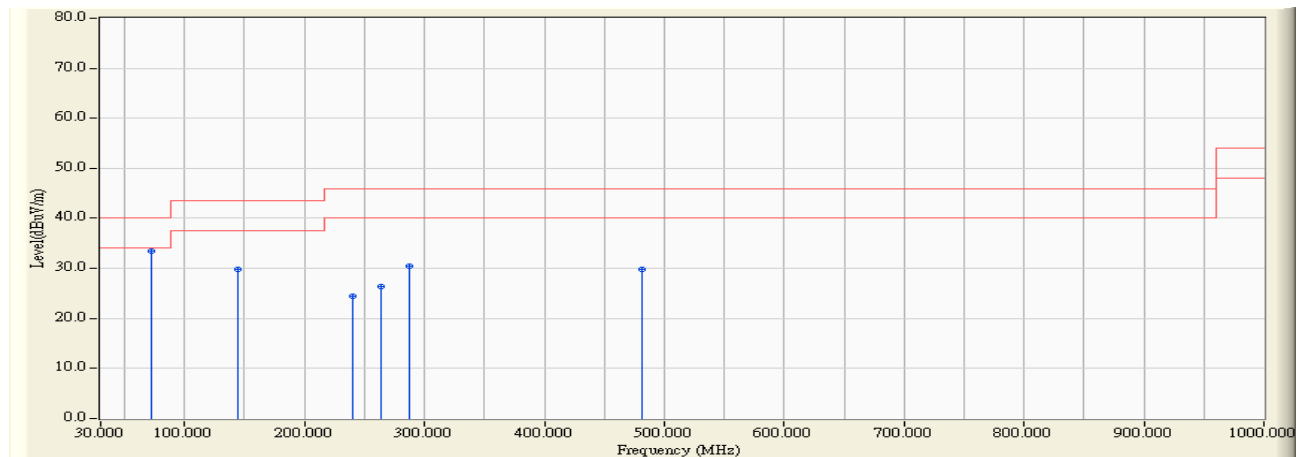


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	44.453	-20.066	52.619	32.553	-7.447	40.000	QUASIPeAK
2		71.904	-26.157	52.443	26.287	-13.713	40.000	QUASIPeAK
3		99.258	-22.543	46.713	24.170	-19.330	43.500	QUASIPeAK
4		143.878	-20.882	52.987	32.105	-11.395	43.500	QUASIPeAK
5		300.048	-19.113	52.023	32.910	-13.090	46.000	QUASIPeAK
6		500.062	-14.577	43.040	28.462	-17.538	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4 FCC EFS_S2_30M-1GHz_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 3: Powered by Charger



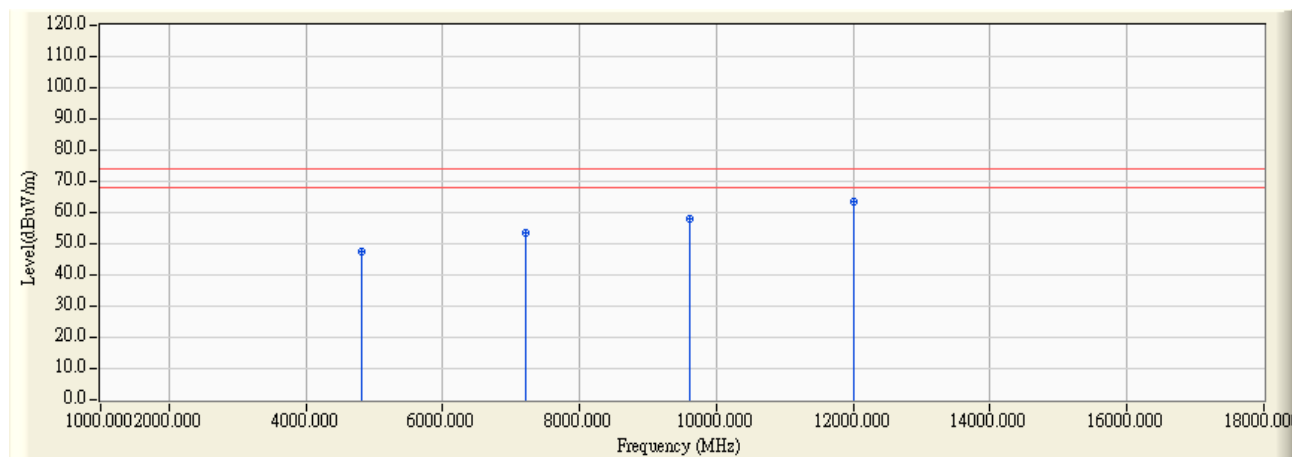
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	71.710	-26.160	59.539	33.379	-6.621	40.000	QUASIPeAK
2		143.975	-20.922	50.695	29.772	-13.728	43.500	QUASIPeAK
3		240.005	-21.291	45.774	24.483	-21.517	46.000	QUASIPeAK
4		263.964	-19.621	46.057	26.435	-19.565	46.000	QUASIPeAK
5		288.020	-19.367	49.893	30.526	-15.474	46.000	QUASIPeAK
6		481.341	-13.860	43.593	29.733	-16.267	46.000	QUASIPeAK

Note:

1. All Reading Levels is Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The Emission under 30MHz were not included is because their levels are lower than 20dB away from limit.

Harmonic & Spurious:

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2402MHz

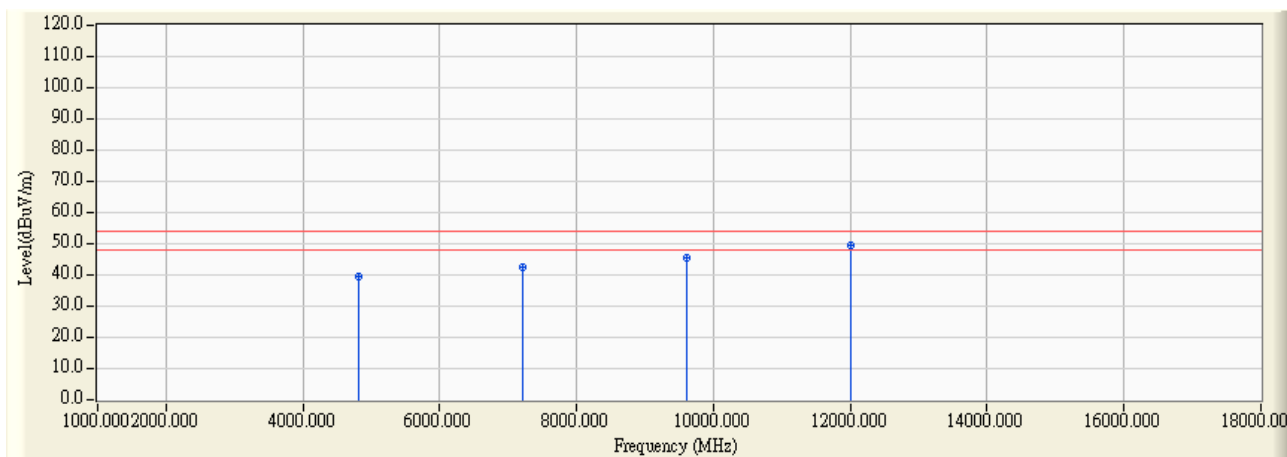


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.000	8.252	39.310	47.563	-26.437	74.000	PEAK
2		7206.000	16.729	36.880	53.609	-20.391	74.000	PEAK
3		9608.000	23.184	34.790	57.975	-16.025	74.000	PEAK
4	*	12010.000	26.768	36.730	63.498	-10.502	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2402MHz

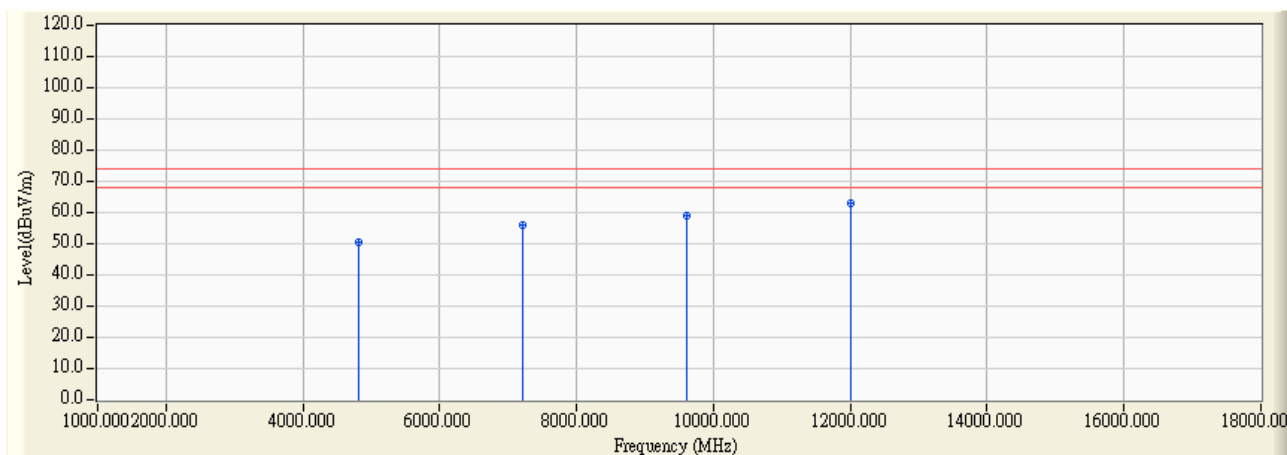


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.000	8.252	31.340	39.593	-14.407	54.000	AVERAGE
2		7206.000	16.729	25.690	42.419	-11.581	54.000	AVERAGE
3		9608.000	23.184	22.230	45.415	-8.585	54.000	AVERAGE
4	*	12010.000	26.768	22.570	49.338	-4.662	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2402MHz

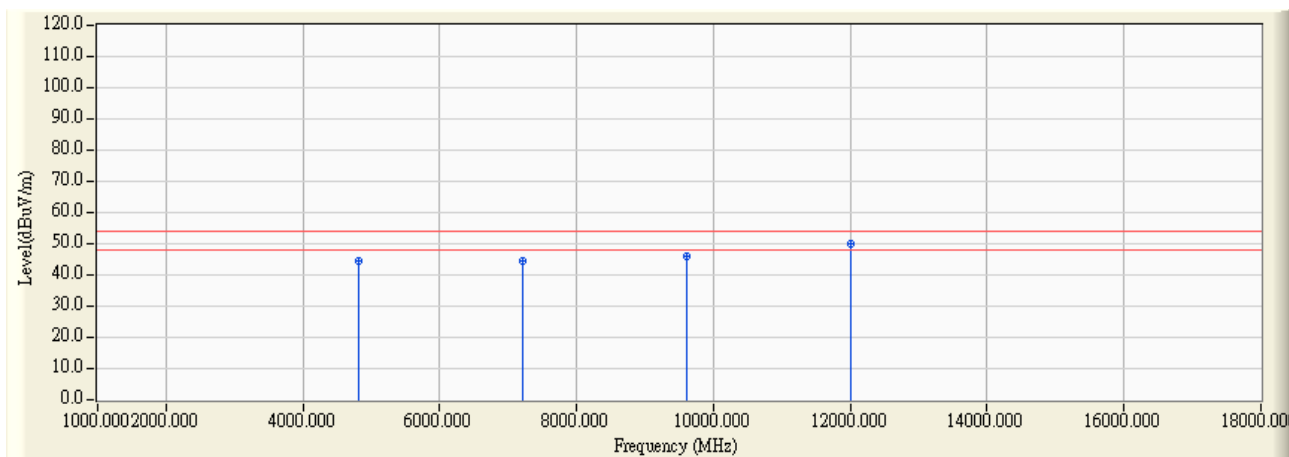


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.000	8.252	42.020	50.273	-23.727	74.000	PEAK
2		7206.000	16.729	39.030	55.759	-18.241	74.000	PEAK
3		9608.000	23.184	35.630	58.815	-15.185	74.000	PEAK
4	*	12010.000	26.768	36.480	63.248	-10.752	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2402MHz

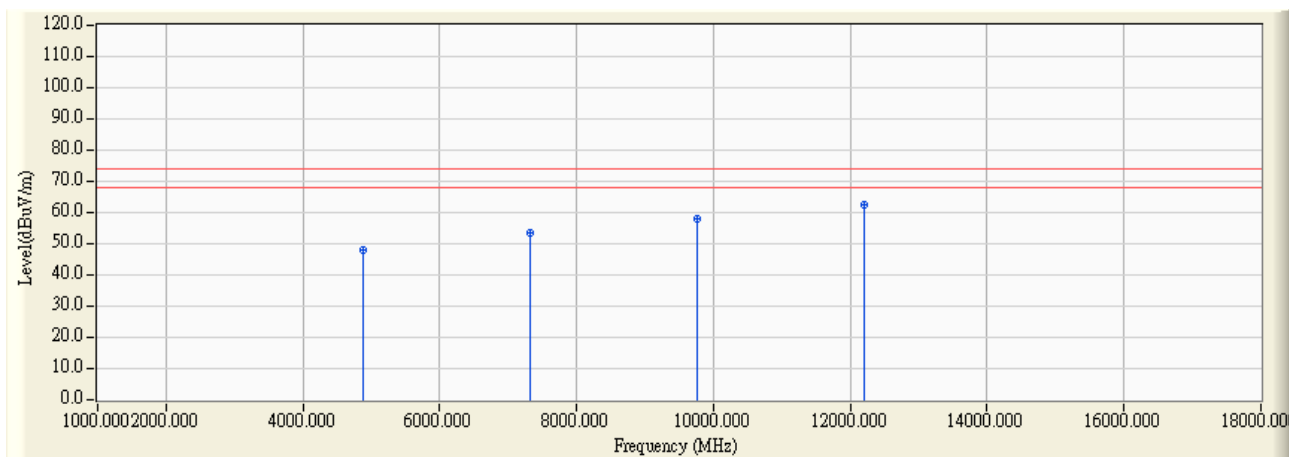


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.000	8.252	36.150	44.403	-9.597	54.000	AVERAGE
2		7206.000	16.729	27.730	44.459	-9.541	54.000	AVERAGE
3		9608.000	23.184	22.570	45.755	-8.245	54.000	AVERAGE
4	*	12010.000	26.768	23.250	50.018	-3.982	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2440MHz

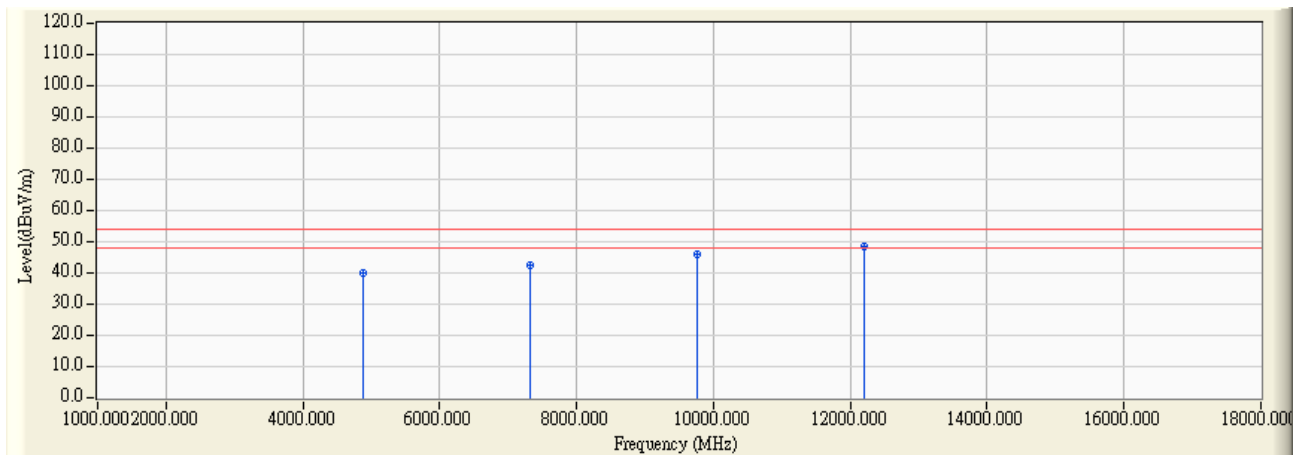


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	8.404	39.540	47.944	-26.056	74.000	PEAK
2		7320.000	17.096	36.420	53.516	-20.484	74.000	PEAK
3		9760.000	23.225	34.760	57.985	-16.015	74.000	PEAK
4	*	12200.000	26.120	36.470	62.590	-11.410	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2440MHz

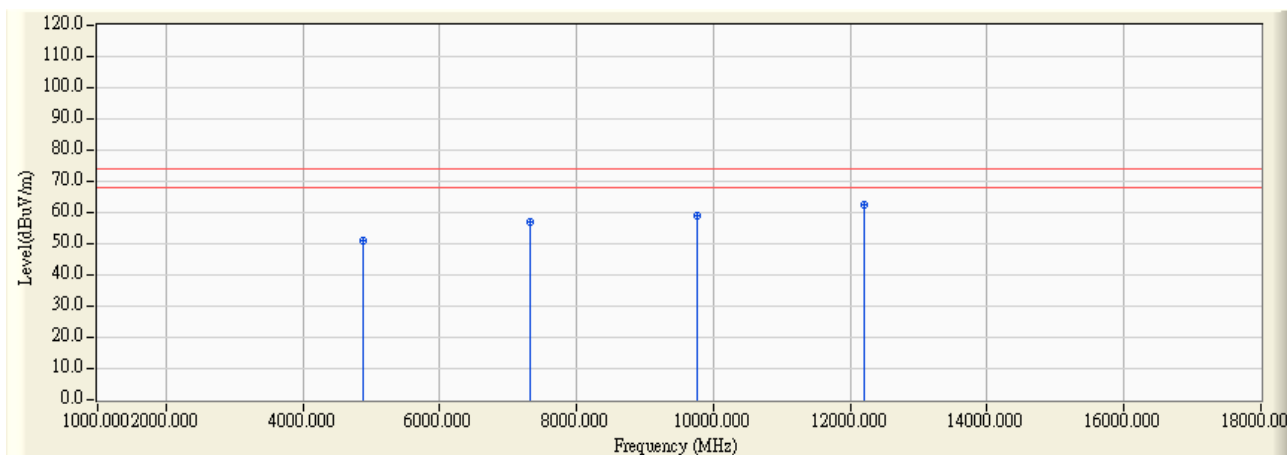


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	8.404	31.370	39.774	-14.226	54.000	AVERAGE
2		7320.000	17.096	25.190	42.286	-11.714	54.000	AVERAGE
3		9760.000	23.225	22.680	45.905	-8.095	54.000	AVERAGE
4	*	12200.000	26.120	22.570	48.690	-5.310	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2440MHz

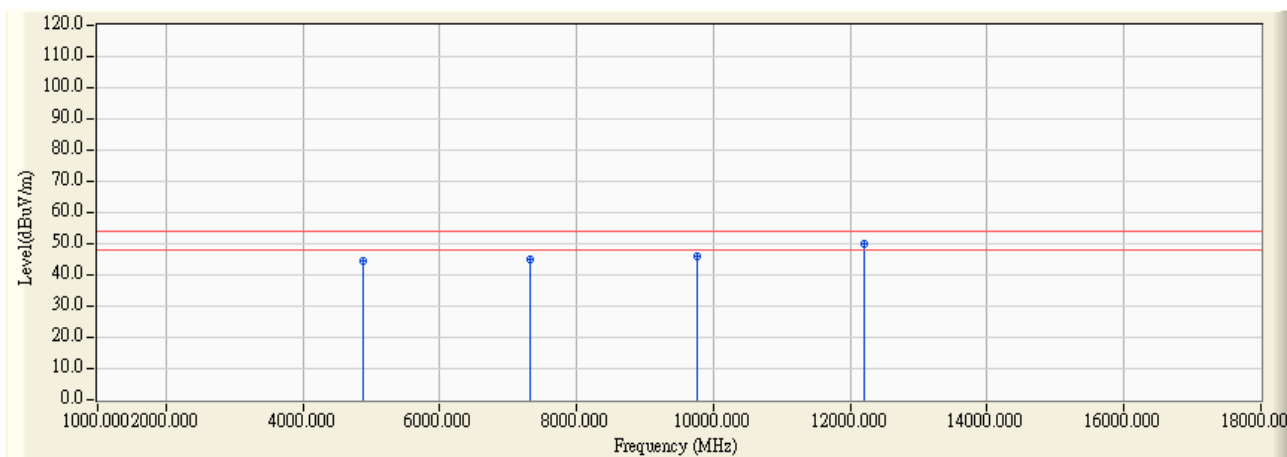


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	8.404	42.450	50.854	-23.146	74.000	PEAK
2		7320.000	17.096	39.920	57.016	-16.984	74.000	PEAK
3		9760.000	23.225	35.690	58.915	-15.085	74.000	PEAK
4	*	12200.000	26.120	36.530	62.650	-11.350	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2440MHz

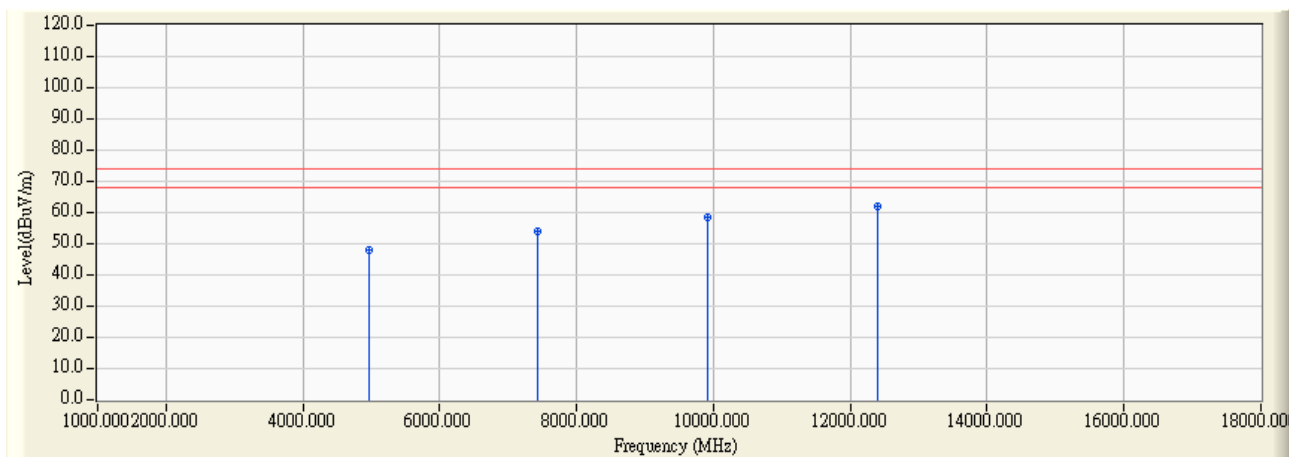


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	8.404	36.170	44.574	-9.426	54.000	AVERAGE
2		7320.000	17.096	27.810	44.906	-9.094	54.000	AVERAGE
3		9760.000	23.225	22.690	45.915	-8.085	54.000	AVERAGE
4	*	12200.000	26.120	23.820	49.940	-4.060	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2480MHz

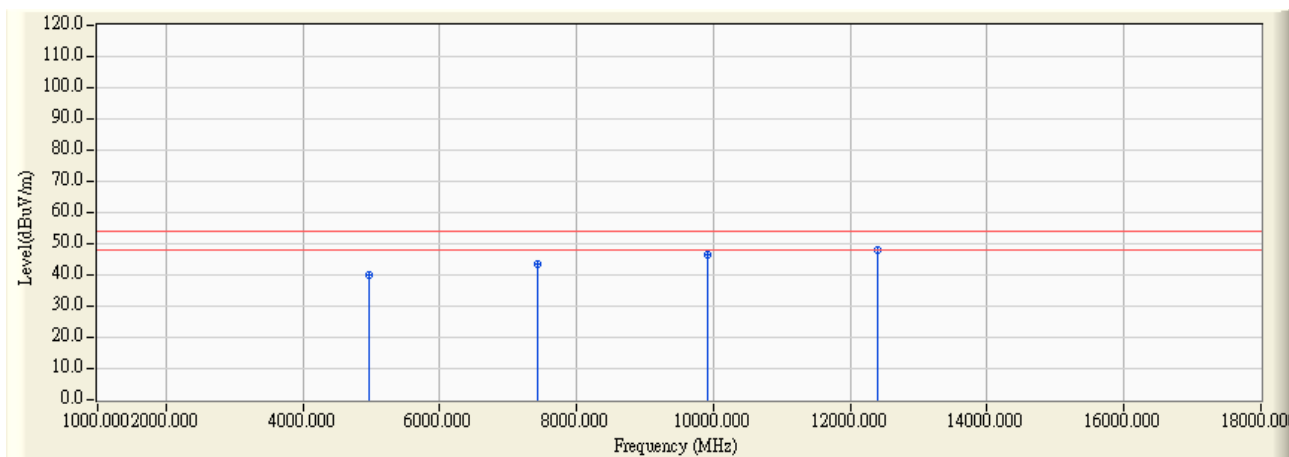


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	8.607	39.410	48.017	-25.983	74.000	PEAK
2		7440.000	17.822	36.350	54.172	-19.828	74.000	PEAK
3		9920.000	23.731	34.660	58.391	-15.609	74.000	PEAK
4	*	12400.000	25.659	36.410	62.069	-11.931	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2480MHz

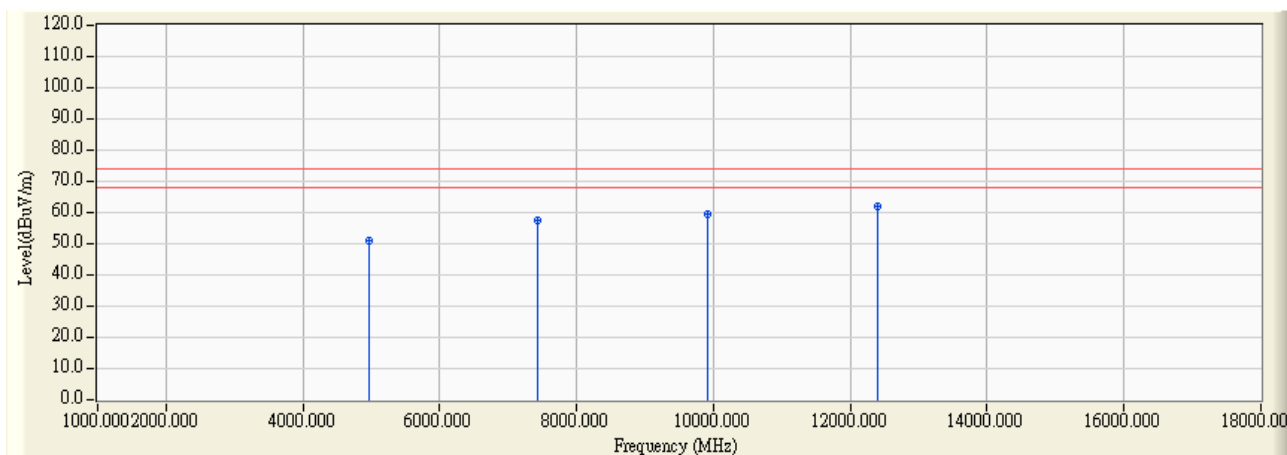


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	8.607	31.470	40.077	-13.923	54.000	AVERAGE
2		7440.000	17.822	25.430	43.252	-10.748	54.000	AVERAGE
3		9920.000	23.731	22.770	46.501	-7.499	54.000	AVERAGE
4	*	12400.000	25.659	22.480	48.139	-5.861	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2480MHz

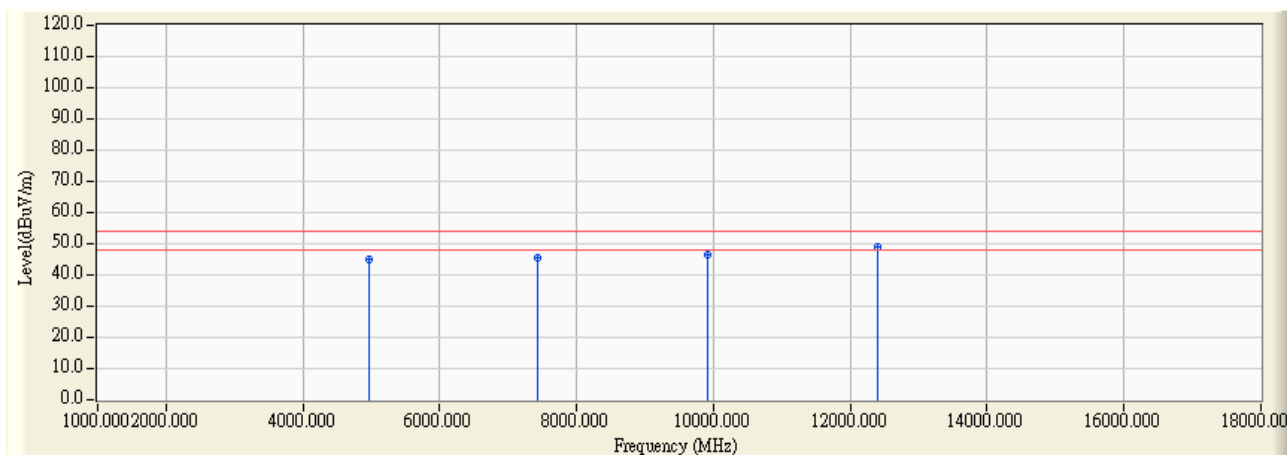


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	8.607	42.640	51.247	-22.753	74.000	PEAK
2		7440.000	17.822	39.570	57.392	-16.608	74.000	PEAK
3		9920.000	23.731	35.650	59.381	-14.619	74.000	PEAK
4	*	12400.000	25.659	36.550	62.209	-11.791	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2480MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	8.607	36.610	45.217	-8.783	54.000	PEAK
2		7440.000	17.822	27.430	45.252	-8.748	54.000	PEAK
3		9920.000	23.731	22.690	46.421	-7.579	54.000	PEAK
4	*	12400.000	25.659	23.550	49.209	-4.791	54.000	PEAK

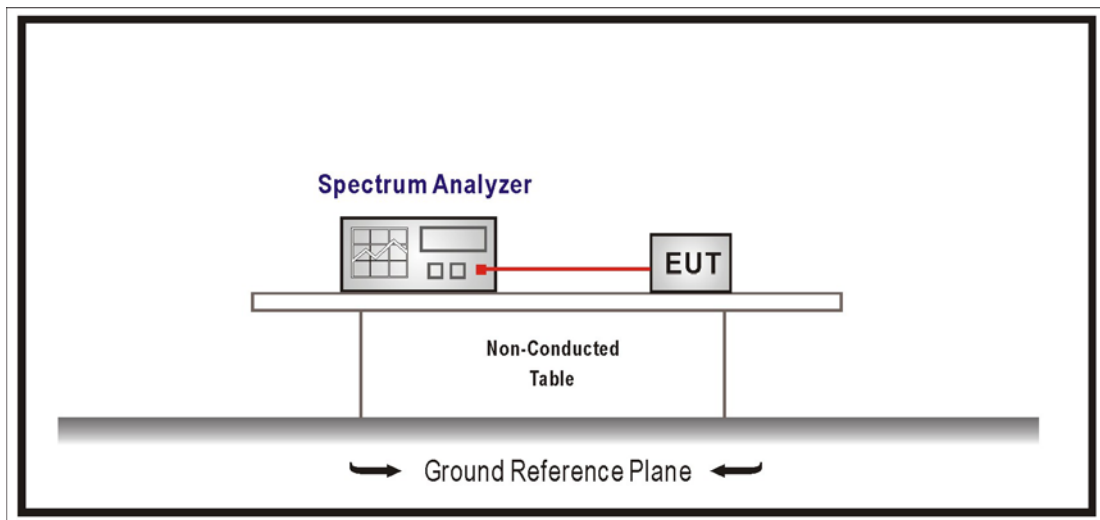
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

5. RF antenna conducted test

5.1. Test Setup

RF Conducted Measurement:



5.2. Limits

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 an RF conducted or 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)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

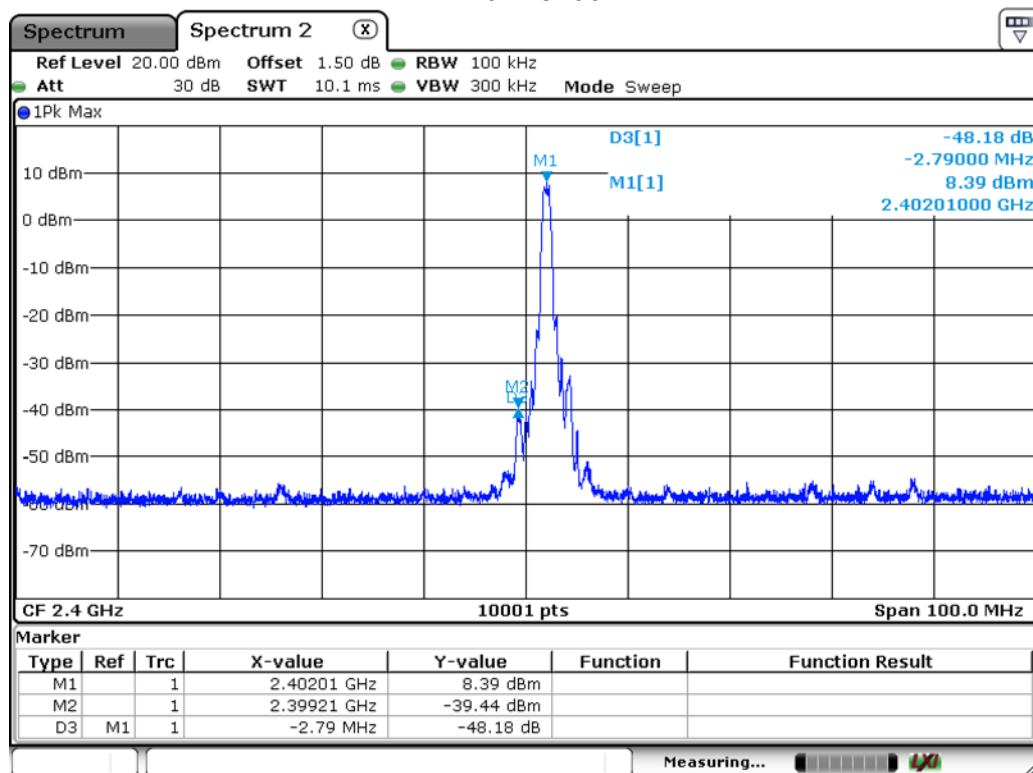
5.5. Test Result

Product	Bluetooth Headset		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode (Powered by PC)		
Date of Test	2018/08/03	Test Site	SR10-H

GFSK

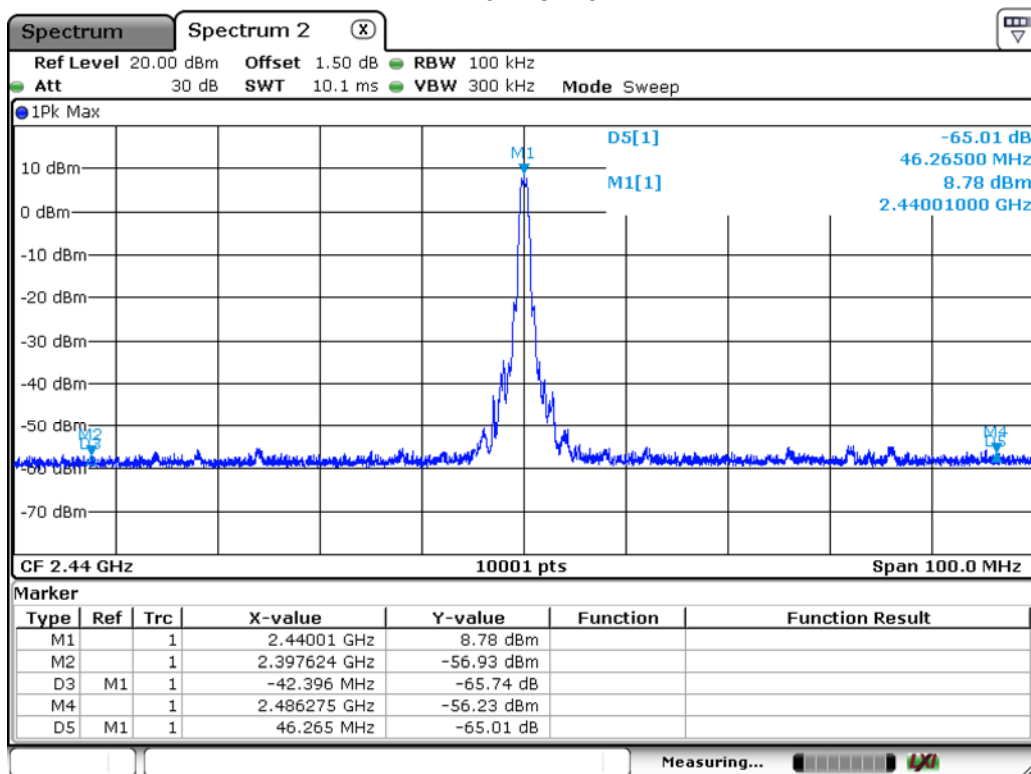
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	-48.180	≥ 20	Pass
19	2440	-53.270	≥ 20	Pass
39	2480	-54.140	≥ 20	Pass

Channel 00



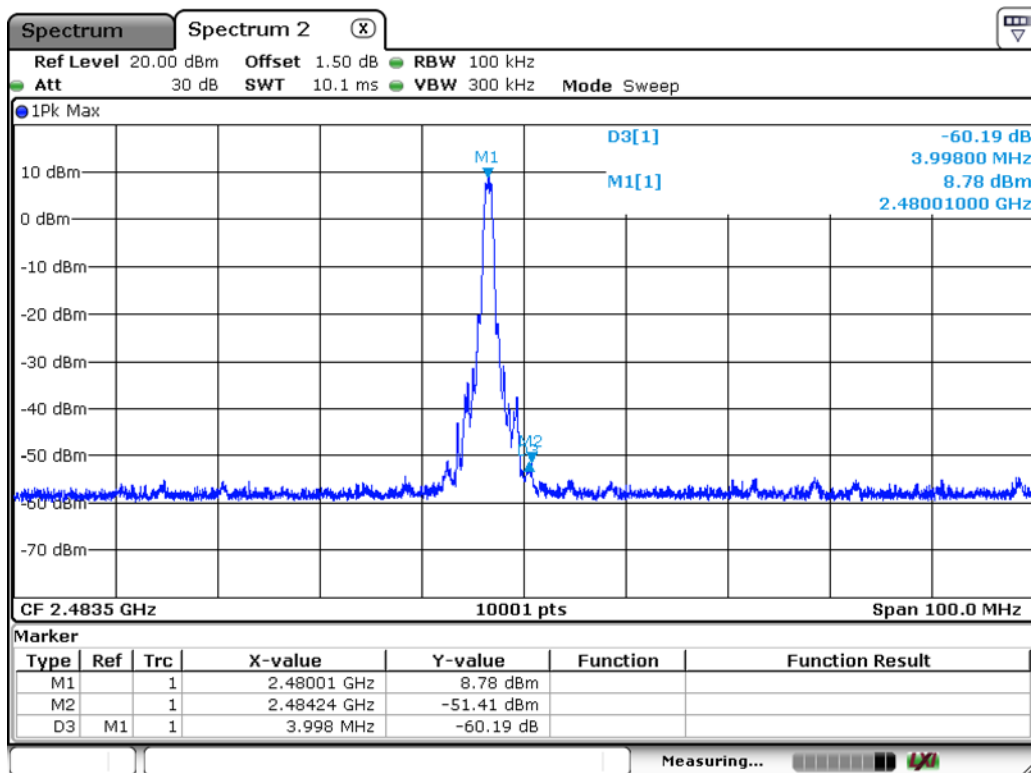
Date: 3.AUG.2018 04:06:27

Channel 19



Date: 3.AUG.2018 04:04:49

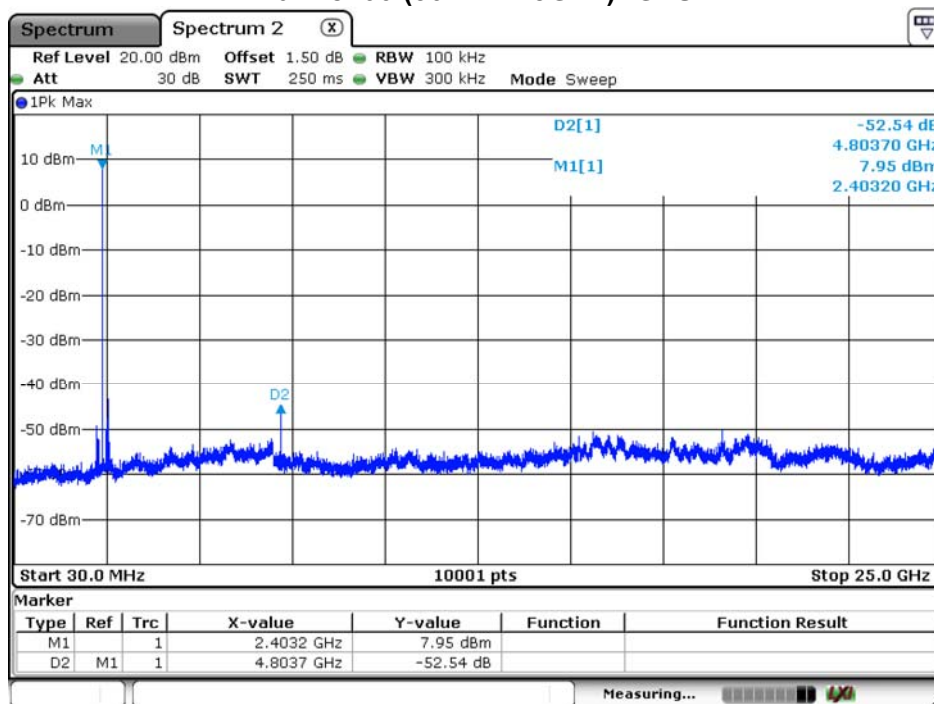
Channel 39



Date: 3.AUG.2018 04:02:58

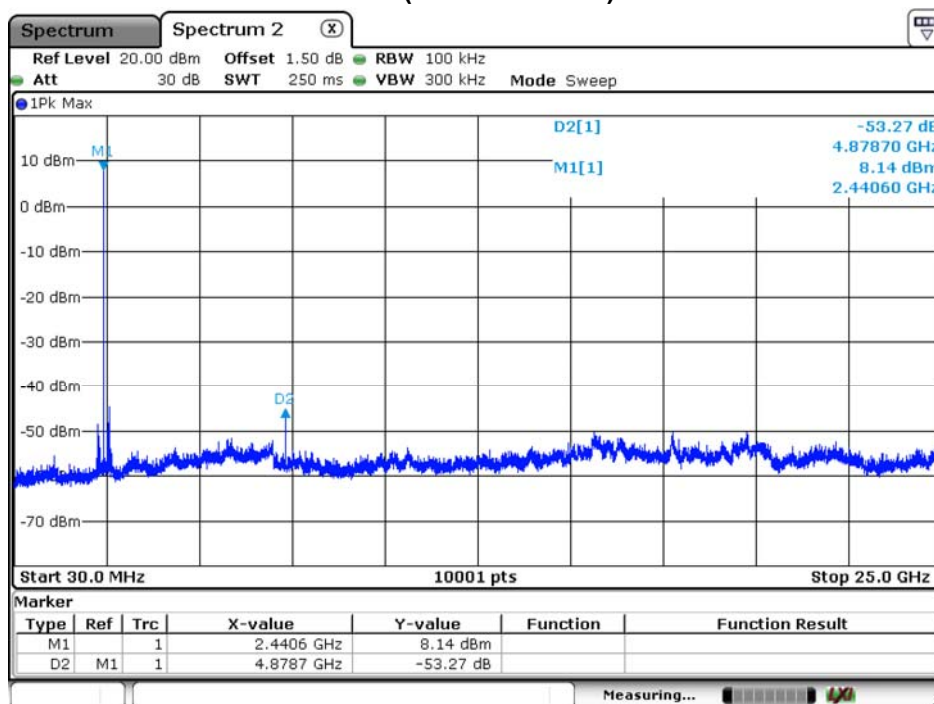
Product	Bluetooth Headset		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode (Powered by PC)		
Date of Test	2018/08/03	Test Site	SR10-H

Channel 00 (30MHz-25GHz)- GFSK



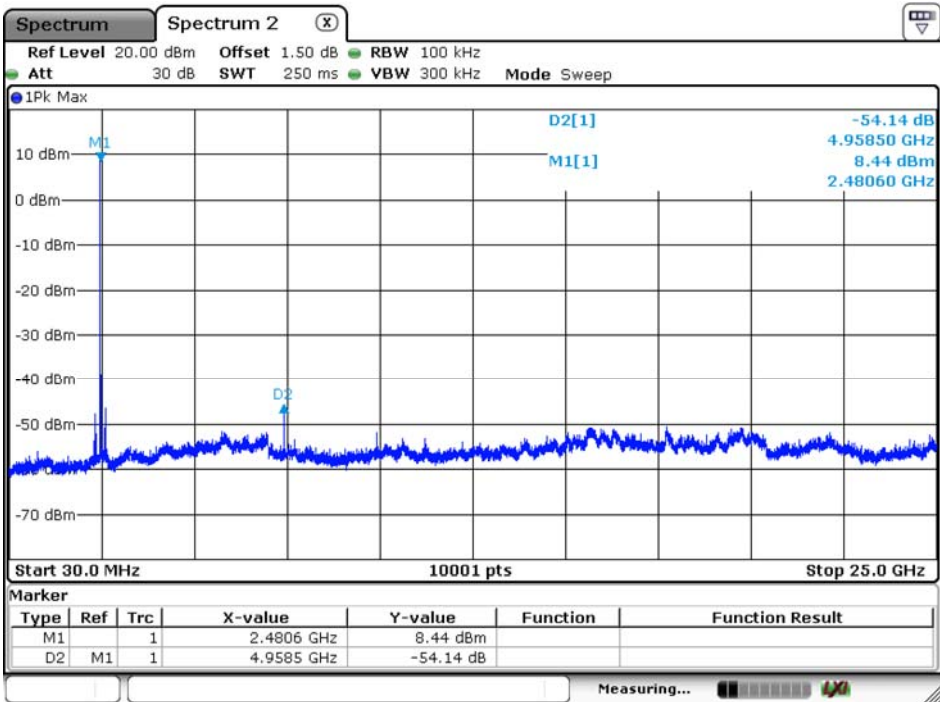
Date: 3.AUG.2018 04:08:16

Channel 19 (30MHz-25GHz)- GFSK



Date: 3.AUG.2018 04:08:55

Channel 39 (30MHz-25GHz)- GFSK

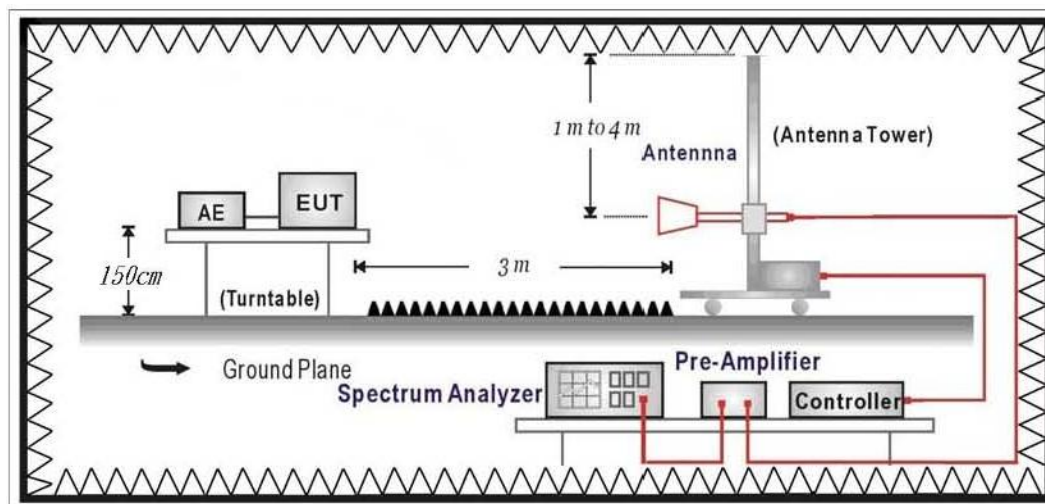


Date: 3.AUG.2018 04:10:07

6. Band Edge

6.1. Test Setup

RF Radiated Measurement:



6.2. 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.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 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.

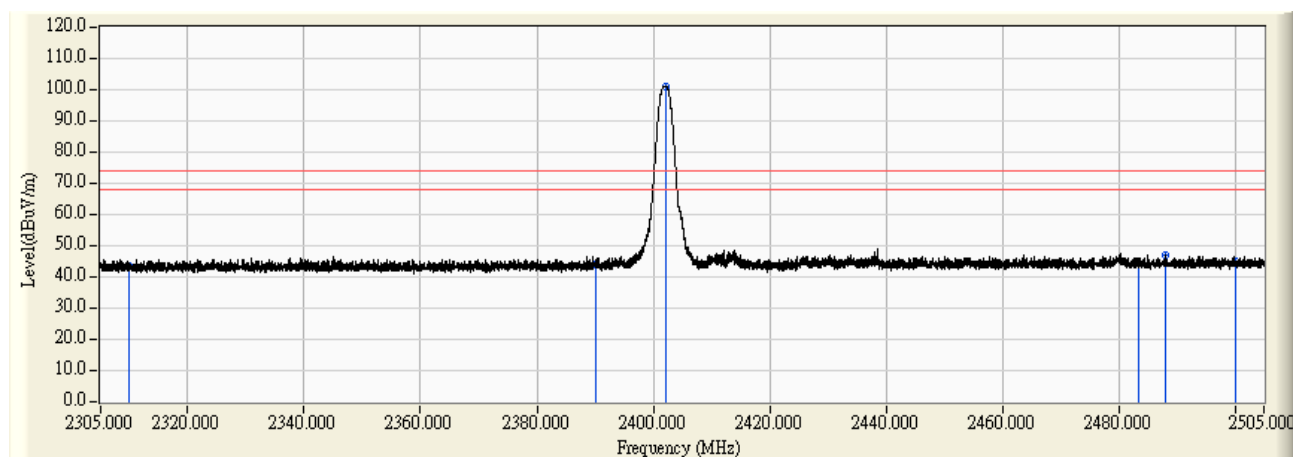
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247.

6.5. Test Result

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2402MHz

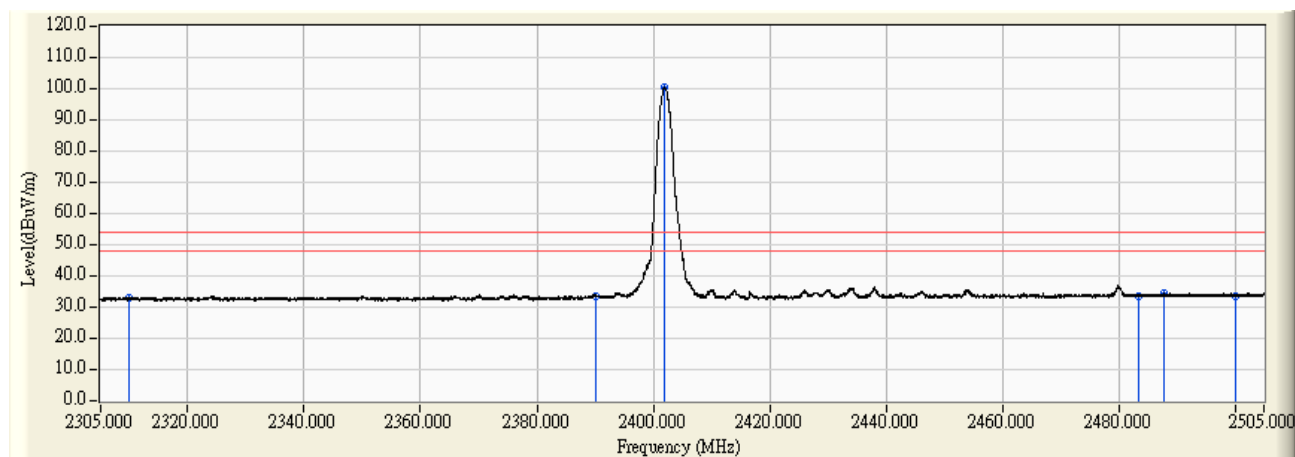


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	14.118	29.360	43.478	-30.522	74.000	PEAK
2	2390.000	14.762	29.113	43.875	-30.125	74.000	PEAK
3	* 2402.300	14.789	86.250	101.038	27.038	74.000	PEAK
4	2483.500	15.288	29.093	44.381	-29.619	74.000	PEAK
5	2488.020	15.301	31.452	46.754	-27.246	74.000	PEAK
6	2500.000	15.314	29.474	44.789	-29.211	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) <u>802.15.1_BLE_2402MHz</u>

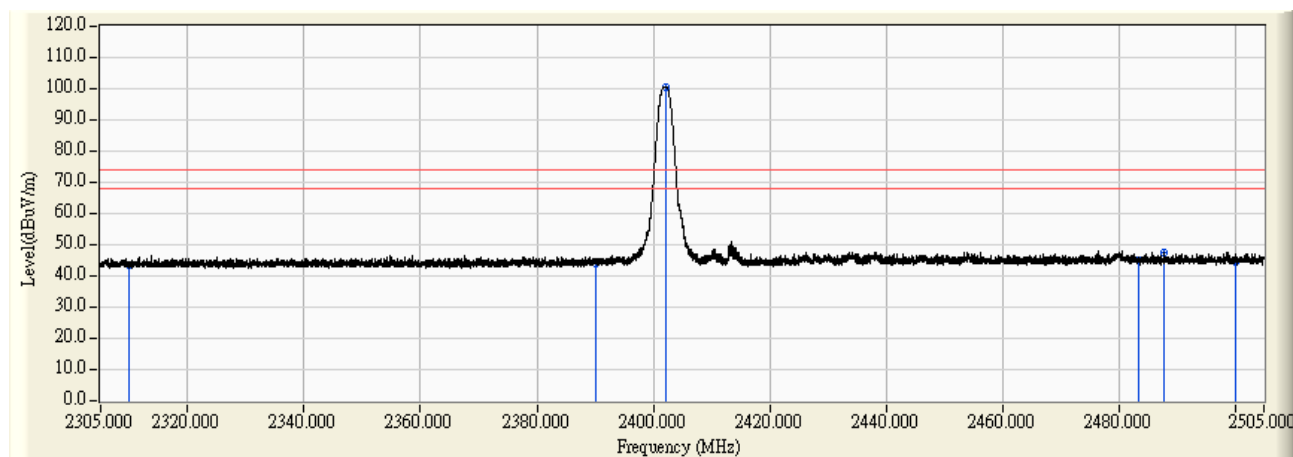


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	18.862	32.980	-21.020	54.000	AVERAGE
2		2390.000	14.762	18.731	33.493	-20.507	54.000	AVERAGE
3	*	2402.020	14.790	85.482	100.272	46.272	54.000	AVERAGE
4		2483.500	15.288	18.416	33.704	-20.296	54.000	AVERAGE
5		2487.740	15.302	19.128	34.429	-19.571	54.000	AVERAGE
6		2500.000	15.314	18.211	33.526	-20.474	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2402MHz

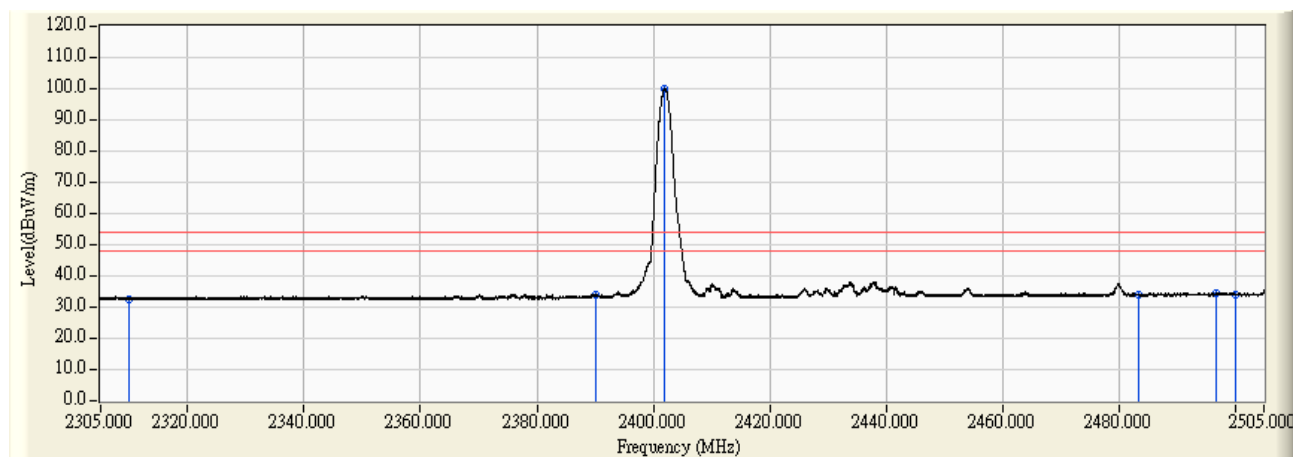


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	29.572	43.690	-30.310	74.000	PEAK
2		2390.000	14.762	29.143	43.905	-30.095	74.000	PEAK
3	*	2402.280	14.788	85.831	100.620	26.620	74.000	PEAK
4		2483.500	15.288	29.932	45.220	-28.780	74.000	PEAK
5		2487.940	15.302	32.184	47.486	-26.514	74.000	PEAK
6		2500.000	15.314	29.249	44.564	-29.436	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) <u>802.15.1 BLE_2402MHz</u>

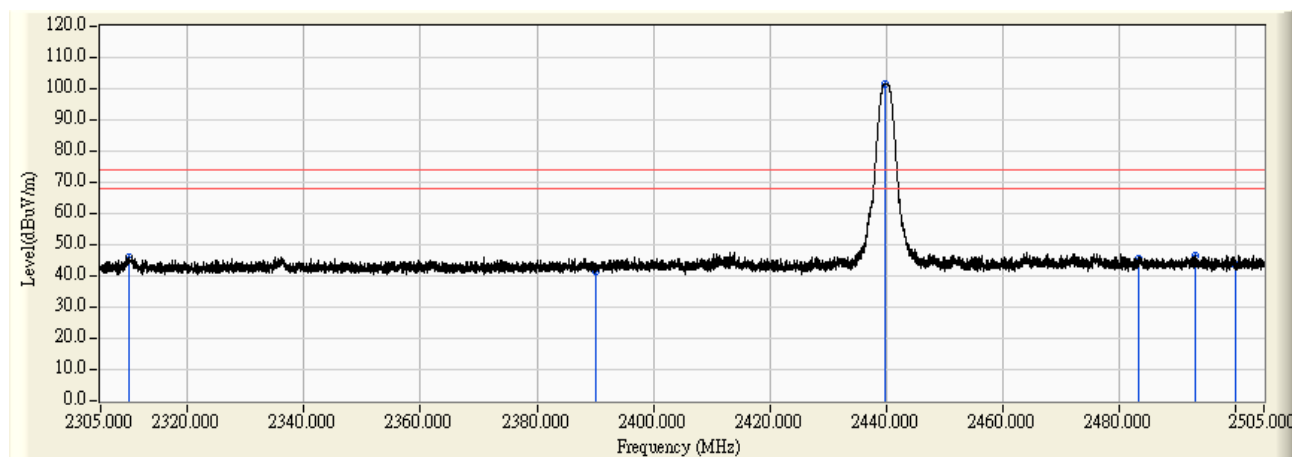


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	18.546	32.664	-21.336	54.000	AVERAGE
2		2390.000	14.762	19.026	33.788	-20.212	54.000	AVERAGE
3	*	2402.020	14.790	85.039	99.829	45.829	54.000	AVERAGE
4		2483.500	15.288	18.726	34.014	-19.986	54.000	AVERAGE
5		2496.780	15.324	19.076	34.400	-19.600	54.000	AVERAGE
6		2500.000	15.314	18.659	33.974	-20.026	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE 2440MHz

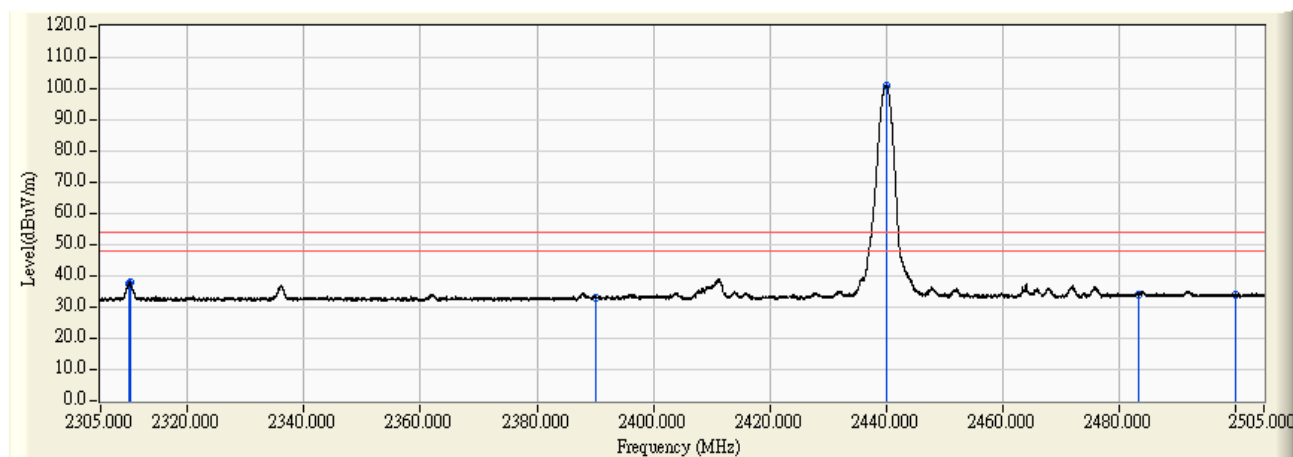


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	31.662	45.780	-28.220	74.000	PEAK
2		2390.000	14.762	26.714	41.476	-32.524	74.000	PEAK
3	*	2439.780	14.838	86.860	101.698	27.698	74.000	PEAK
4		2483.500	15.288	30.013	45.301	-28.699	74.000	PEAK
5		2493.100	15.317	31.043	46.361	-27.639	74.000	PEAK
6		2500.000	15.314	28.067	43.382	-30.618	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE 2440MHz

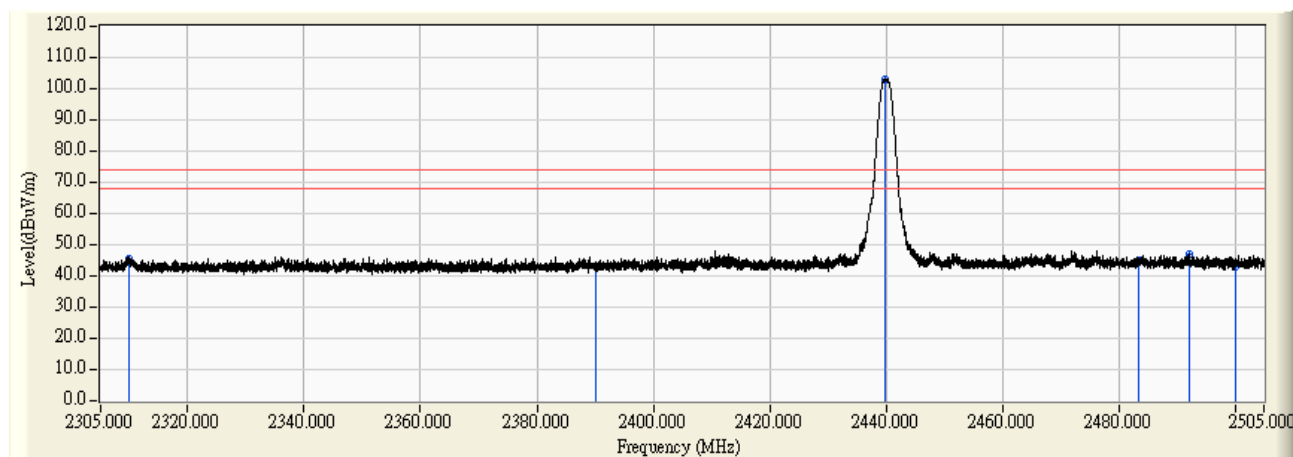


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	23.347	37.465	-16.535	54.000	AVERAGE
2		2310.100	14.118	23.707	37.825	-16.175	54.000	AVERAGE
3		2390.000	14.762	18.213	32.975	-21.025	54.000	AVERAGE
4	*	2440.020	14.839	86.160	100.999	46.999	54.000	AVERAGE
5		2483.500	15.288	18.800	34.088	-19.912	54.000	AVERAGE
6		2500.000	15.314	18.765	34.080	-19.920	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE 2440MHz

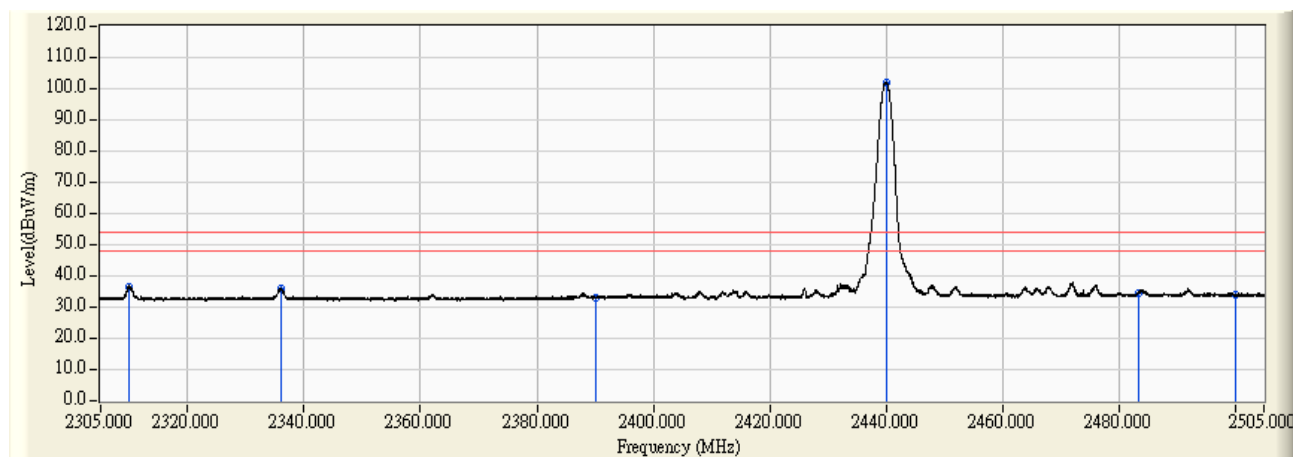


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	31.465	45.583	-28.417	74.000	PEAK
2		2390.000	14.762	28.042	42.804	-31.196	74.000	PEAK
3	*	2439.760	14.838	88.058	102.895	28.895	74.000	PEAK
4		2483.500	15.288	29.714	45.002	-28.998	74.000	PEAK
5		2492.220	15.315	31.915	47.230	-26.770	74.000	PEAK
6		2500.000	15.314	27.718	43.033	-30.967	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE_2440MHz

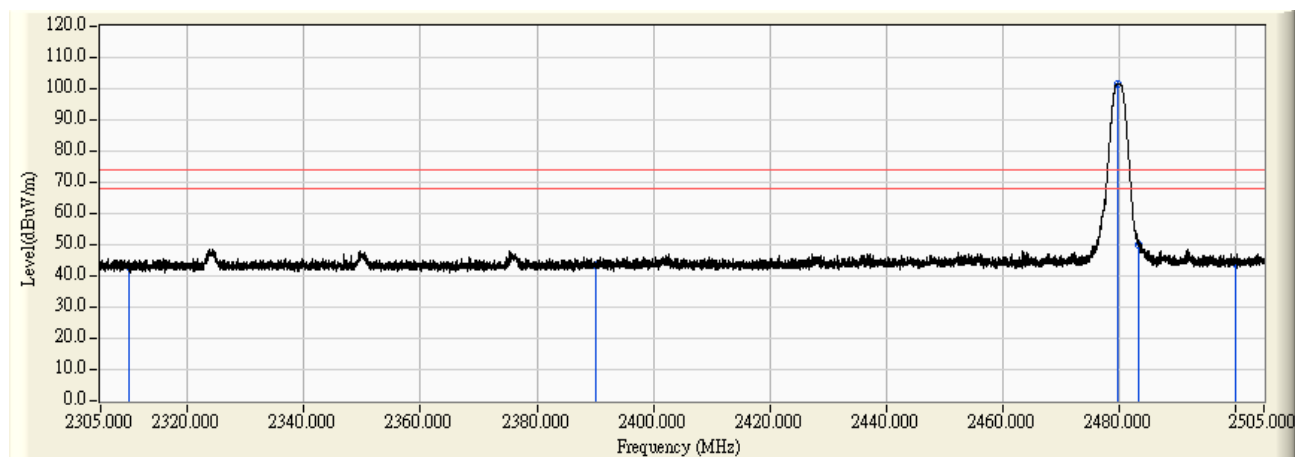


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	22.296	36.414	-17.586	54.000	AVERAGE
2		2335.900	14.246	21.898	36.144	-17.856	54.000	AVERAGE
3		2390.000	14.762	18.246	33.008	-20.992	54.000	AVERAGE
4	*	2440.000	14.839	87.364	102.203	48.203	54.000	AVERAGE
5		2483.500	15.288	19.368	34.656	-19.344	54.000	AVERAGE
6		2500.000	15.314	18.472	33.787	-20.213	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE 2480MHz

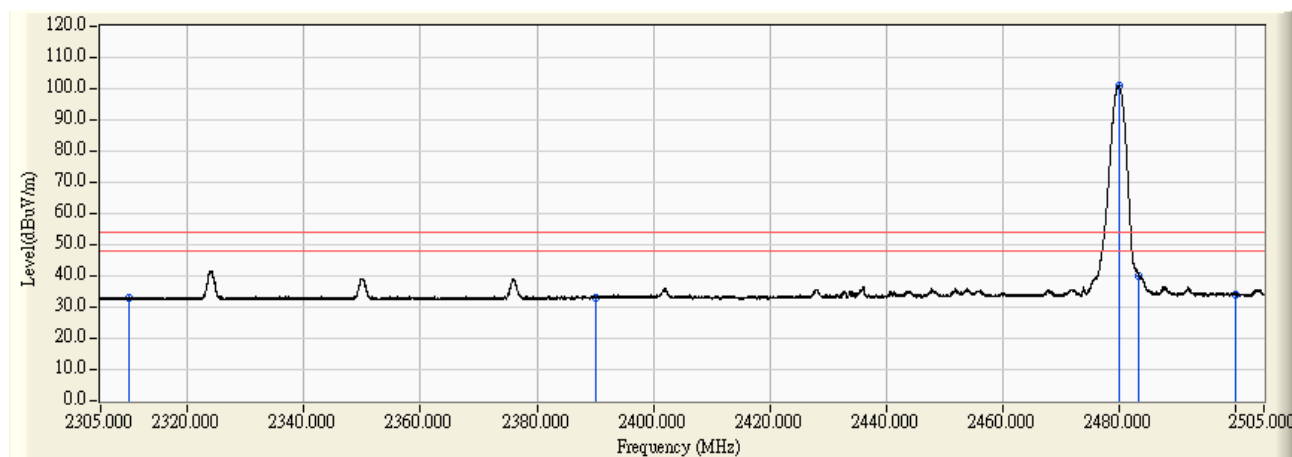


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	29.029	43.147	-30.853	74.000	PEAK
2		2390.000	14.762	28.966	43.728	-30.272	74.000	PEAK
3	*	2479.760	15.277	86.349	101.626	27.626	74.000	PEAK
4		2483.500	15.288	34.912	50.200	-23.800	74.000	PEAK
5		2483.520	15.288	34.568	49.856	-24.144	74.000	PEAK
6		2500.000	15.314	28.728	44.043	-29.957	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE 2480MHz

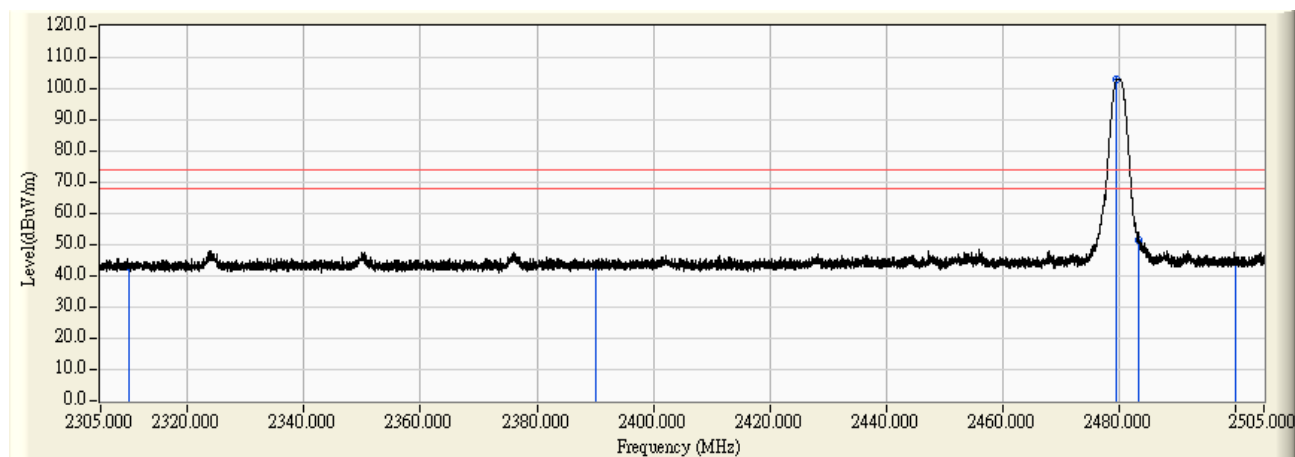


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	18.751	32.869	-21.131	54.000	AVERAGE
2		2390.000	14.762	18.312	33.074	-20.926	54.000	AVERAGE
3	*	2480.020	15.278	85.590	100.868	46.868	54.000	AVERAGE
4		2483.500	15.288	24.819	40.107	-13.893	54.000	AVERAGE
5		2483.520	15.288	24.833	40.121	-13.879	54.000	AVERAGE
6		2500.000	15.314	18.832	34.147	-19.853	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1 BLE 2480MHz

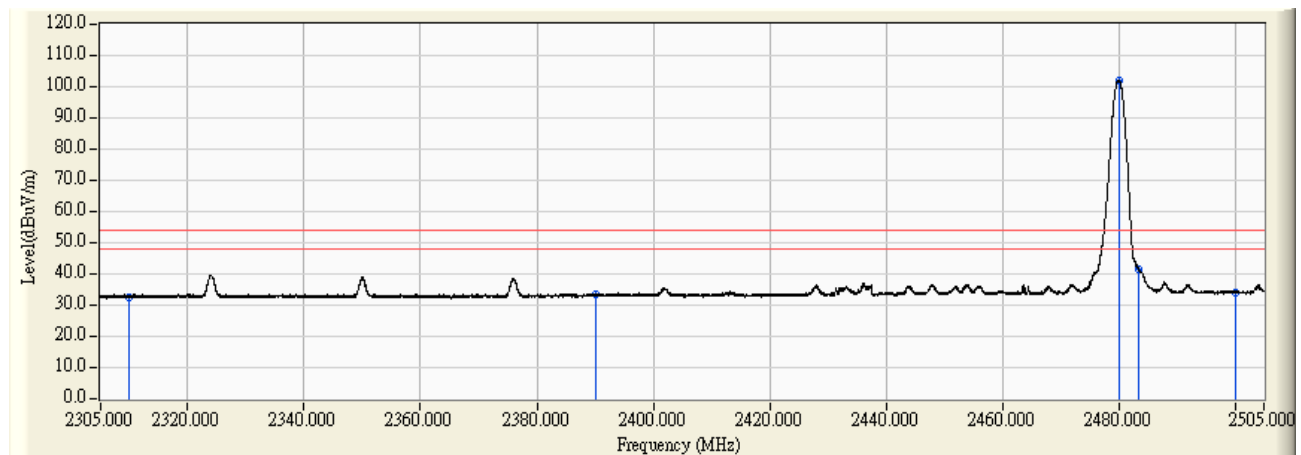


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	29.091	43.209	-30.791	74.000	PEAK
2		2390.000	14.762	28.513	43.275	-30.725	74.000	PEAK
3	*	2479.740	15.276	87.720	102.997	28.997	74.000	PEAK
4		2483.500	15.288	36.311	51.599	-22.401	74.000	PEAK
5		2483.540	15.288	36.401	51.690	-22.310	74.000	PEAK
6		2500.000	15.314	29.652	44.967	-29.033	74.000	PEAK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

Site : CB4-H	Time : 2018/08/02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 6
Probe : CB4_FCC_EFS_B432_1-18GHz_3M_1116 - VERTICAL	Power : AC 120V/60Hz
EUT : Bluetooth Headset	Note : Mode 1: Transmit Mode (Powered by PC) 802.15.1_BLE_2480MHz



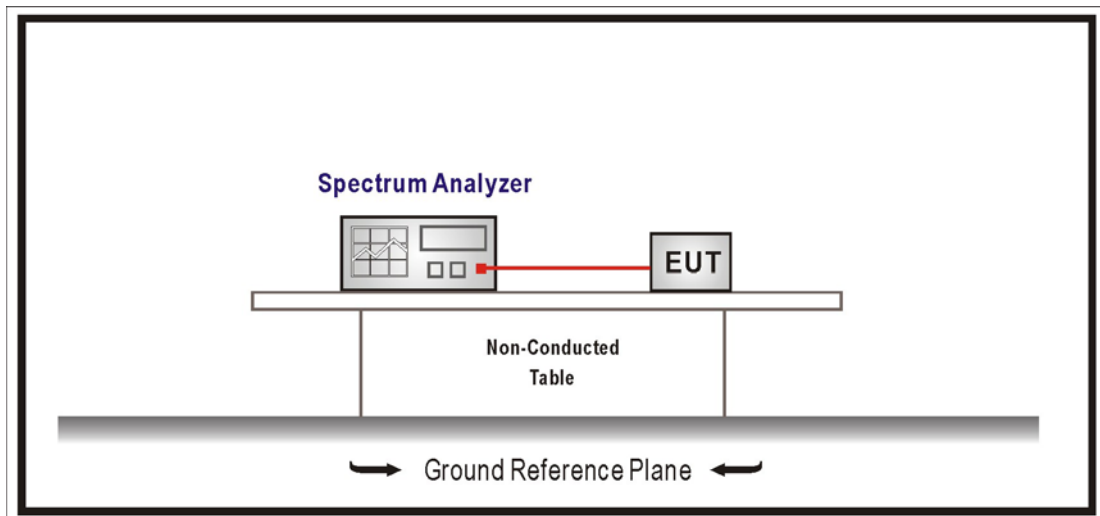
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	14.118	18.609	32.727	-21.273	54.000	AVERAGE
2		2390.000	14.762	18.515	33.277	-20.723	54.000	AVERAGE
3	*	2480.020	15.278	86.970	102.248	48.248	54.000	AVERAGE
4		2483.500	15.288	26.149	41.437	-12.563	54.000	AVERAGE
5		2483.520	15.288	26.004	41.292	-12.708	54.000	AVERAGE
6		2500.000	15.314	18.802	34.117	-19.883	54.000	AVERAGE

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The Emission above 13GHz were not included is because their levels are lower than 20dB away from limit.

7. Occupied Bandwidth & DTS Bandwidth

7.1. Test Setup



7.2. Limits

The 6 dB bandwidth: ≥ 500 kHz.

Occupied Bandwidth: NA

7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1% of EBW, Span greater than RBW.

7.4. Test Specification

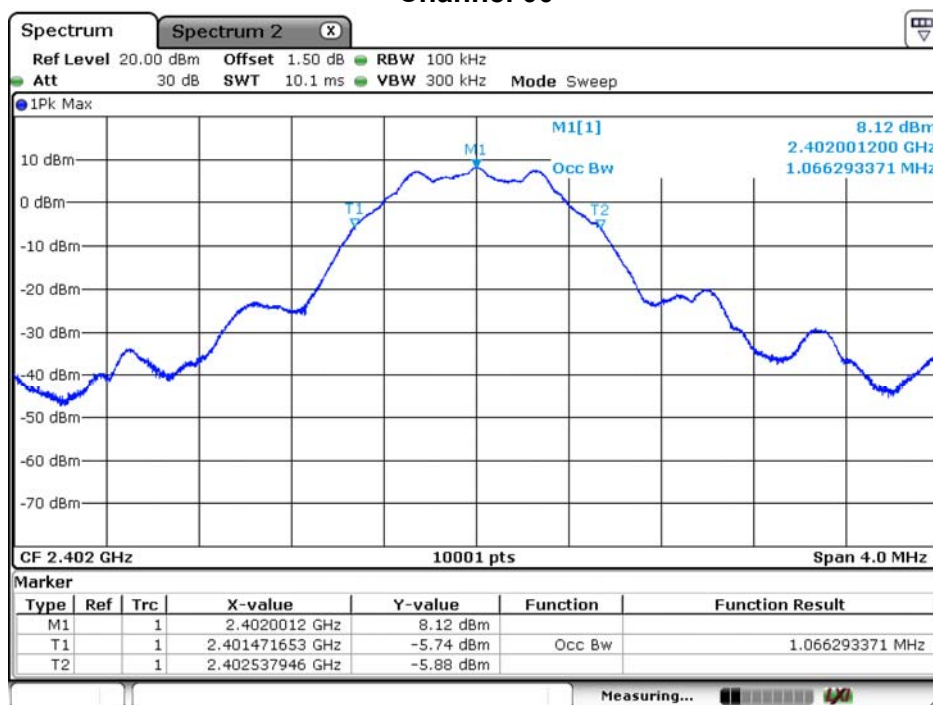
According to FCC Part 15 Subpart C Paragraph 15.247

7.5. Test Result

Product	Bluetooth Headset		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit Mode (Powered by PC)		
Date of Test	2018/08/03	Test Site	SR10-H

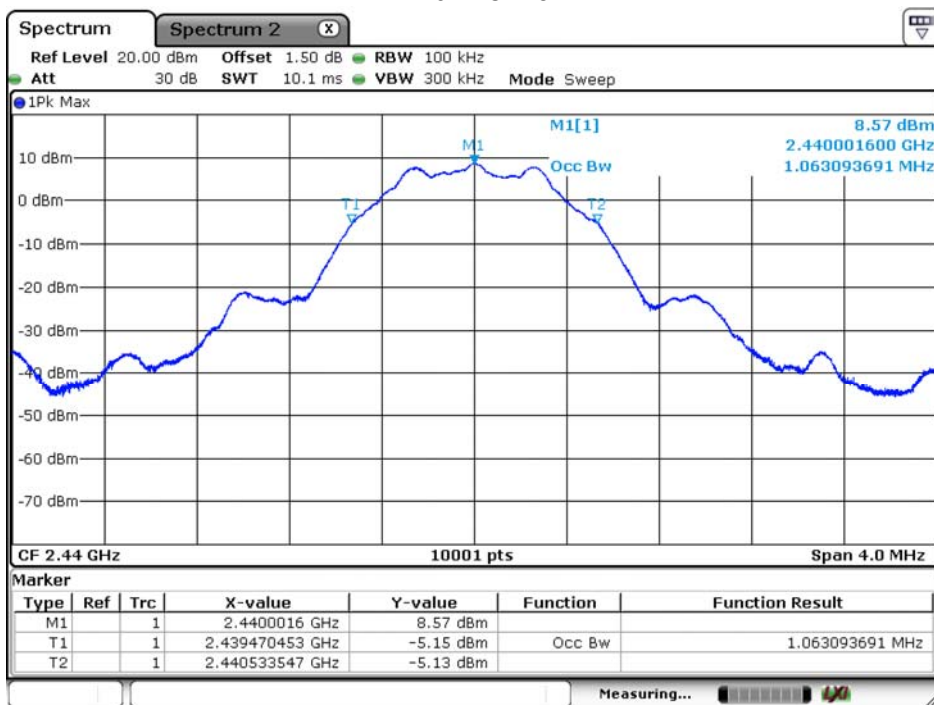
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
00	2402	1.066	--
19	2440	1.063	--
39	2480	1.066	--

Channel 00



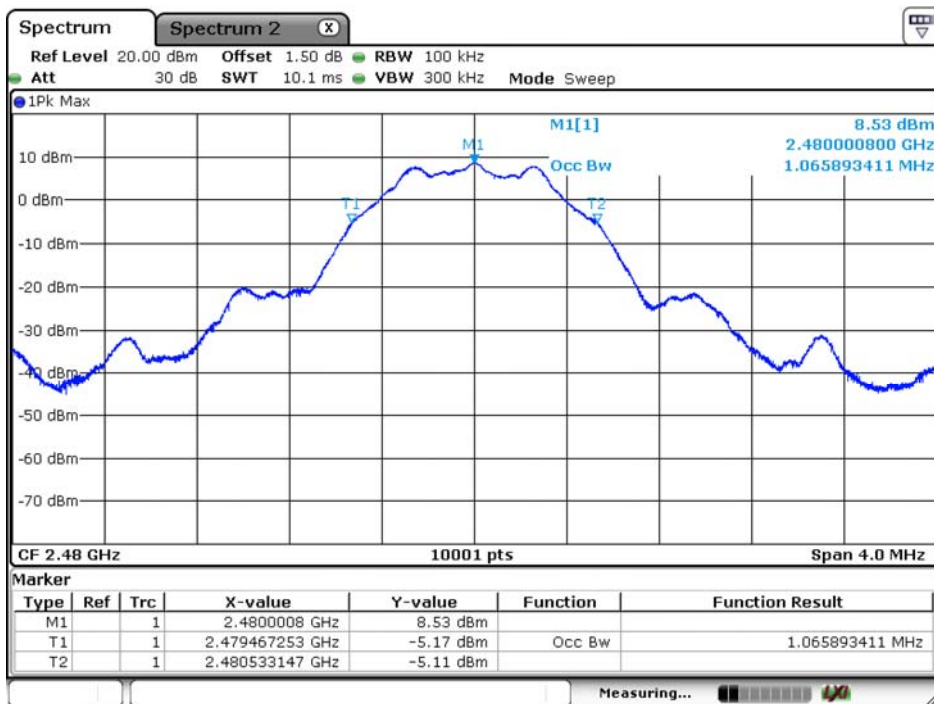
Date: 3.AUG.2018 04:12:29

Channel 19



Date: 3.AUG.2018 04:12:05

Channel 39

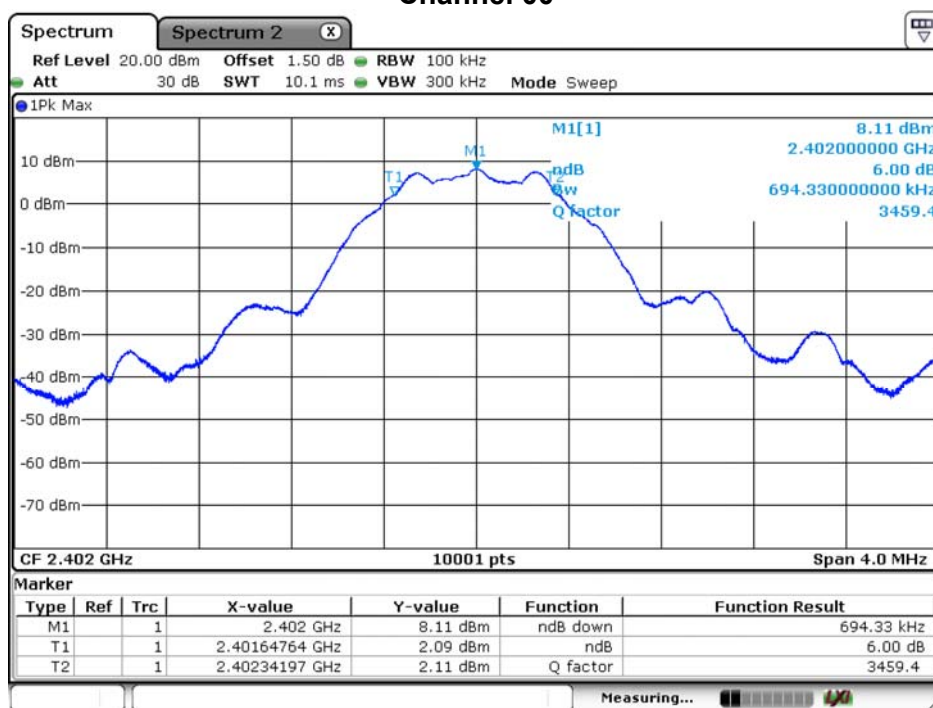


Date: 3.AUG.2018 04:11:25

Product	Bluetooth Headset		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Transmit Mode (Powered by PC)		
Date of Test	2018/08/03	Test Site	SR10-H

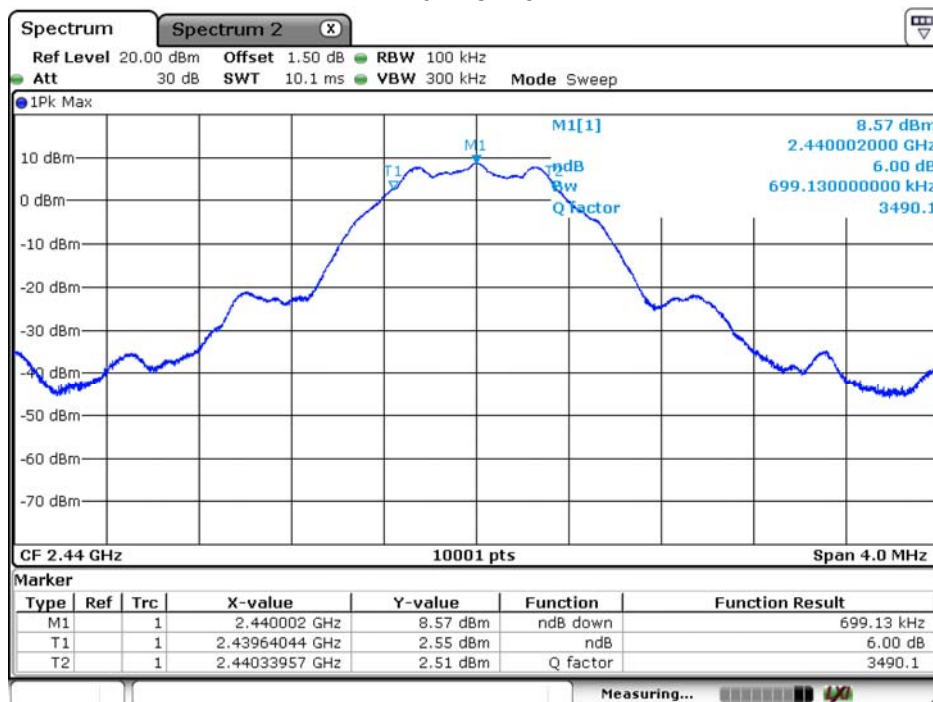
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	0.694	≥ 0.5	Pass
19	2440	0.699	≥ 0.5	Pass
39	2480	0.696	≥ 0.5	Pass

Channel 00



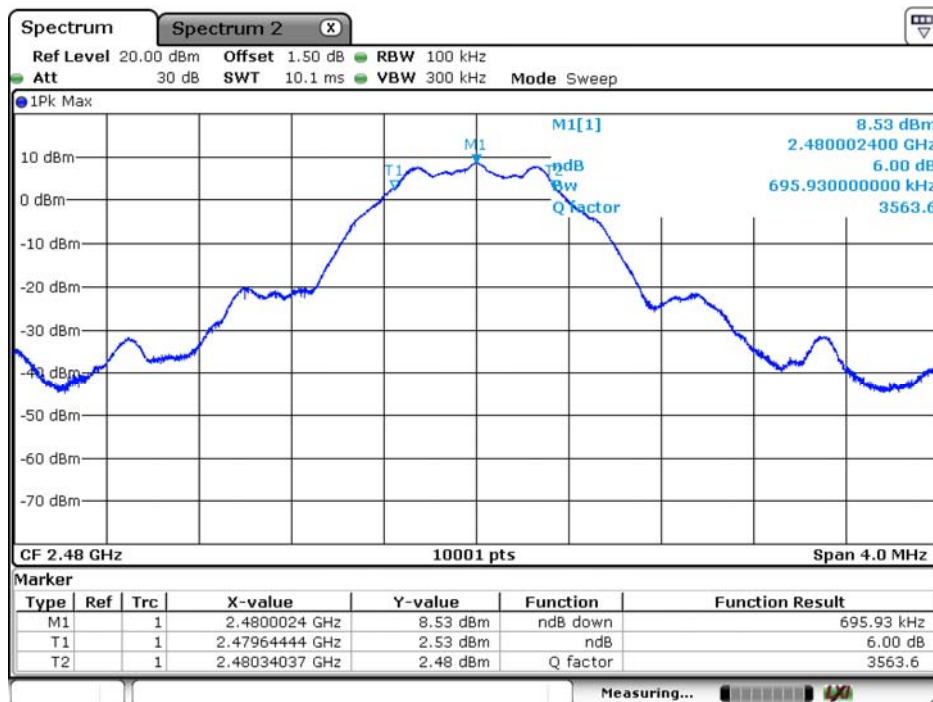
Date: 3.AUG.2018 04:13:07

Channel 19



Date: 3.AUG.2018 04:13:45

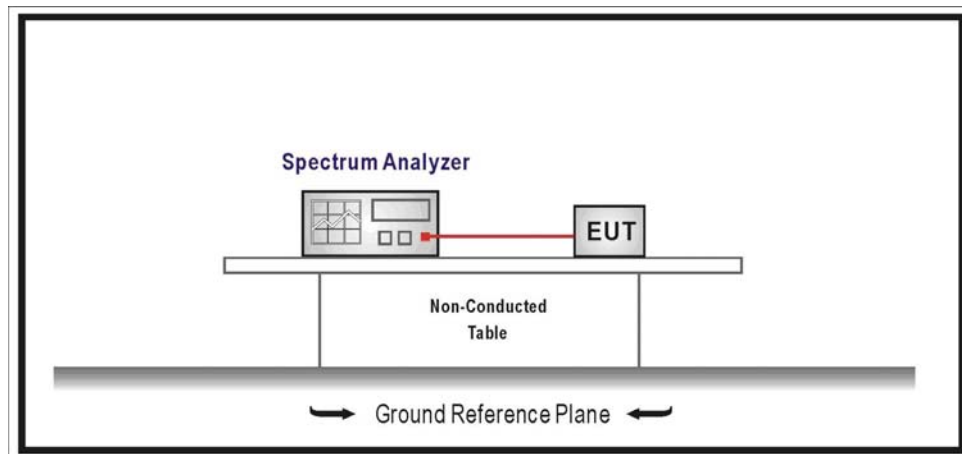
Channel 39



Date: 3.AUG.2018 04:14:06

8. Power Density

8.1. Test Setup



8.2. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01V04 for compliance to FCC 47CFR 15.247 requirements.

8.4. Test Specification

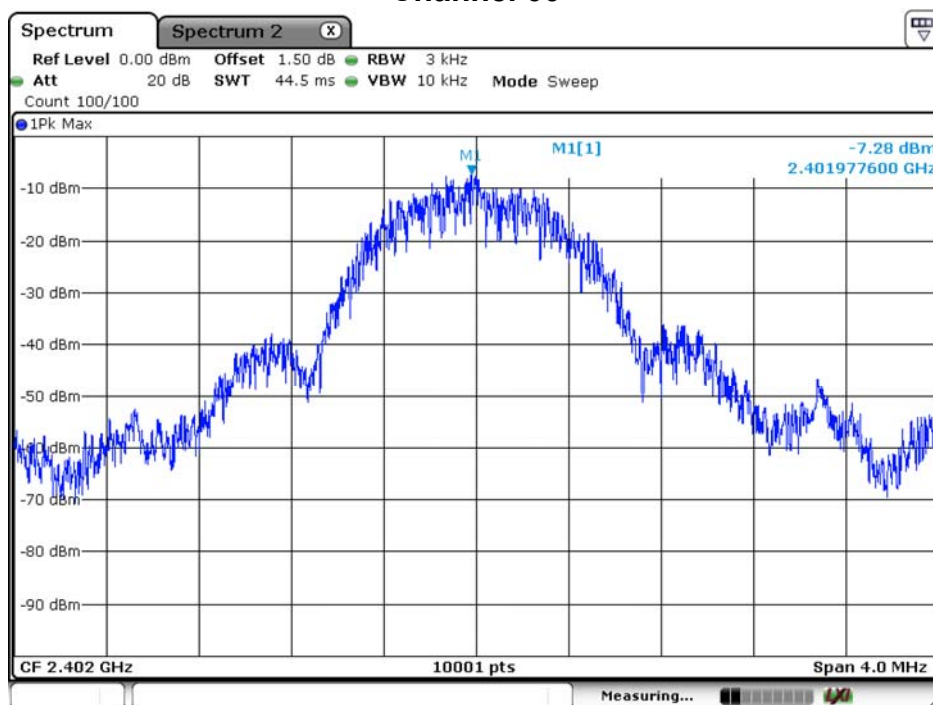
According to FCC Part 15 Subpart C Paragraph 15.247

8.5. Test Result

Product	Bluetooth Headset		
Test Item	Power Density		
Test Mode	Mode 1: Transmit Mode (Powered by PC)		
Date of Test	2018/08/03	Test Site	SR10-H

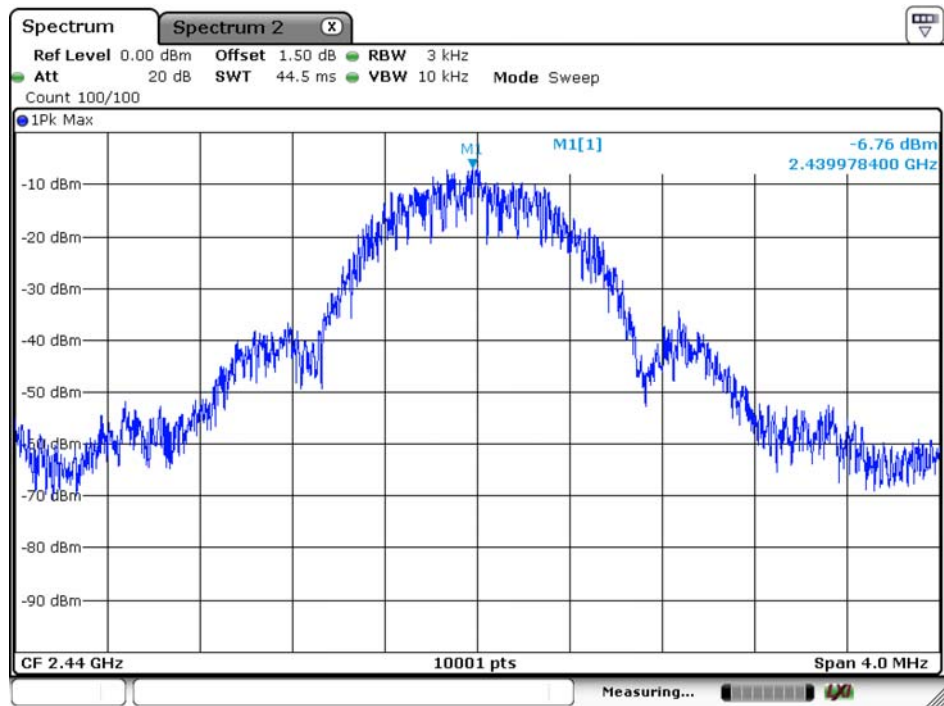
Channel No.	Frequency (MHz)	Measure Level (dBm/3kHz)	Limit (dBm/3kHz)	Result
00	2402	-7.280	≤ 8	Pass
19	2440	-6.760	≤ 8	Pass
39	2480	-6.750	≤ 8	Pass

Channel 00



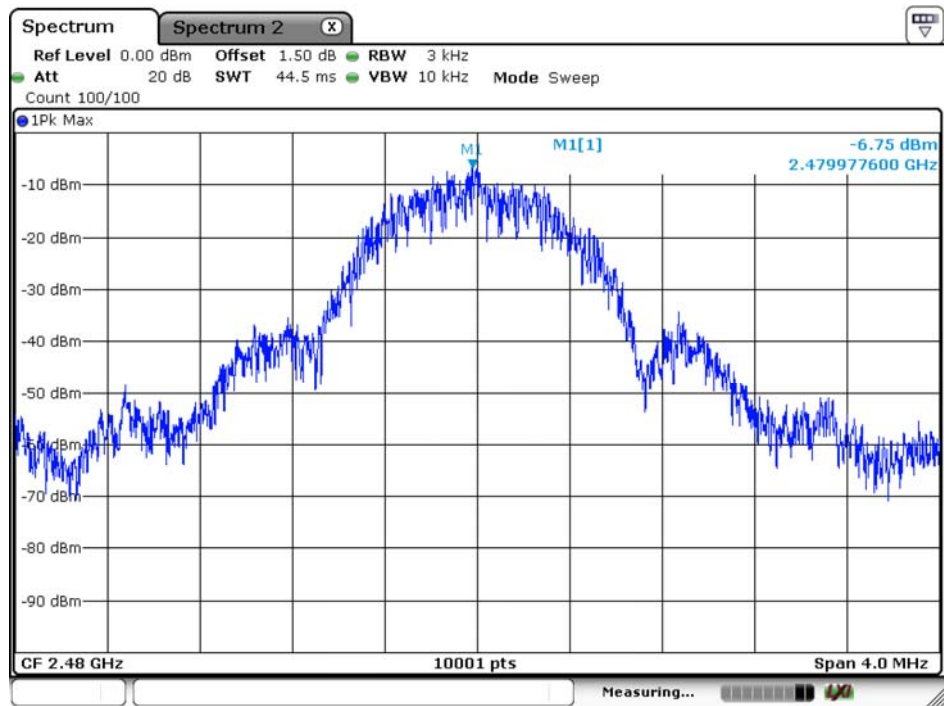
Date: 3.AUG.2018 03:58:36

Channel 19



Date: 3.AUG.2018 03:59:34

Channel 39



Date: 3.AUG.2018 04:00:02