FCC Test Report

Product Name	Bluetooth Headset
Model No.	HSC110W
FCC ID.	BCE-HSC110W

Applicant	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark

Date of Receipt	Nov. 04, 2019
Issued Date	Jan. 14, 2020
Report No.	19B0039R-RFUSP01V00-B
Report Version	V1.0

Testing Laboratory
3023

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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The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Test Report

Issued Date: Jan. 14, 2020
Report No.: 19B0039R-RFUSP01V00-B

Product Name	Bluetooth Headset
Applicant	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark
Manufacturer	GN Audio A/S
Model No.	HSC110W
FCC ID.	BCE-HSC110W
EUT Rated Voltage	DC 3.8V by Battery
EUT Test Voltage	DC 3.8V by Battery
Trade Name	Jabra
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By : Elephant Chen

(Adm. Specialist / Elephant Chen)

Tested By : Yun Che Chen

(Engineer / Yunche Chen)

Approved By :

(Director / Vincent Lin)

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Bluetooth Headset
Trade Name	Jabra
Model No.	HSC110W
FCC ID.	BCE-HSC110W
Frequency Range	2402-2480MHz
Channel Number	79
Type of Modulation	FHSS: GFSK(1Mbps) /π/4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	PIFA Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
USB Cable	Shielded, 1.2m
USB Cable	Shielded, 0.25m

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Jabra	Jabra HSC110W	PIFA Antenna	-0.52dBi for 2.4GHz

Note: The antenna of EUT is conforming 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 Headset with a built-in Bluetooth V5.0, V2.1+EDR transceiver, this report for Bluetooth V2.1+EDR.
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. The EUT are three types, only non-RF components are removed(#2&#3) from #1, all test data(#1) and radiated emission below 1GHz(#2&#3) are shown in the report.

   The type is:

   #1: stereo headset with adjustable arm.

   #2: mono earphone with adjustable arm.

   #3: stereo headset.

Test Mode	Mode 1: Transmit - 1Mbps (GFSK) Mode 2: Transmit - 2Mbps (π/4DQPSK) Mode 3: Transmit - 3Mbps (8DPSK) Mode 4: Charge

1.3. Tested System Details

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

BT mode

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude E5440	FS9TK32	Non-Shielded, 0.8m
2	Adapter	SAMSUNG	EP-TA20JWS	R37H2CMJ8F3DK3	N/A

Charge mode

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude E5440	FS9TK32	Non-Shielded, 0.8m
2	Deskatand	Jabra	DIV020	N/A	Non-Shielded, 1.1m
3	Adapter	SAMSUNG	EP-TA20JWS	R37H2CMJ8F3DK3	N/A

BT mode(stereo headset with adjustable arm & mono earphone with adjustable arm)

Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 1.2m

BT mode(stereo headset)

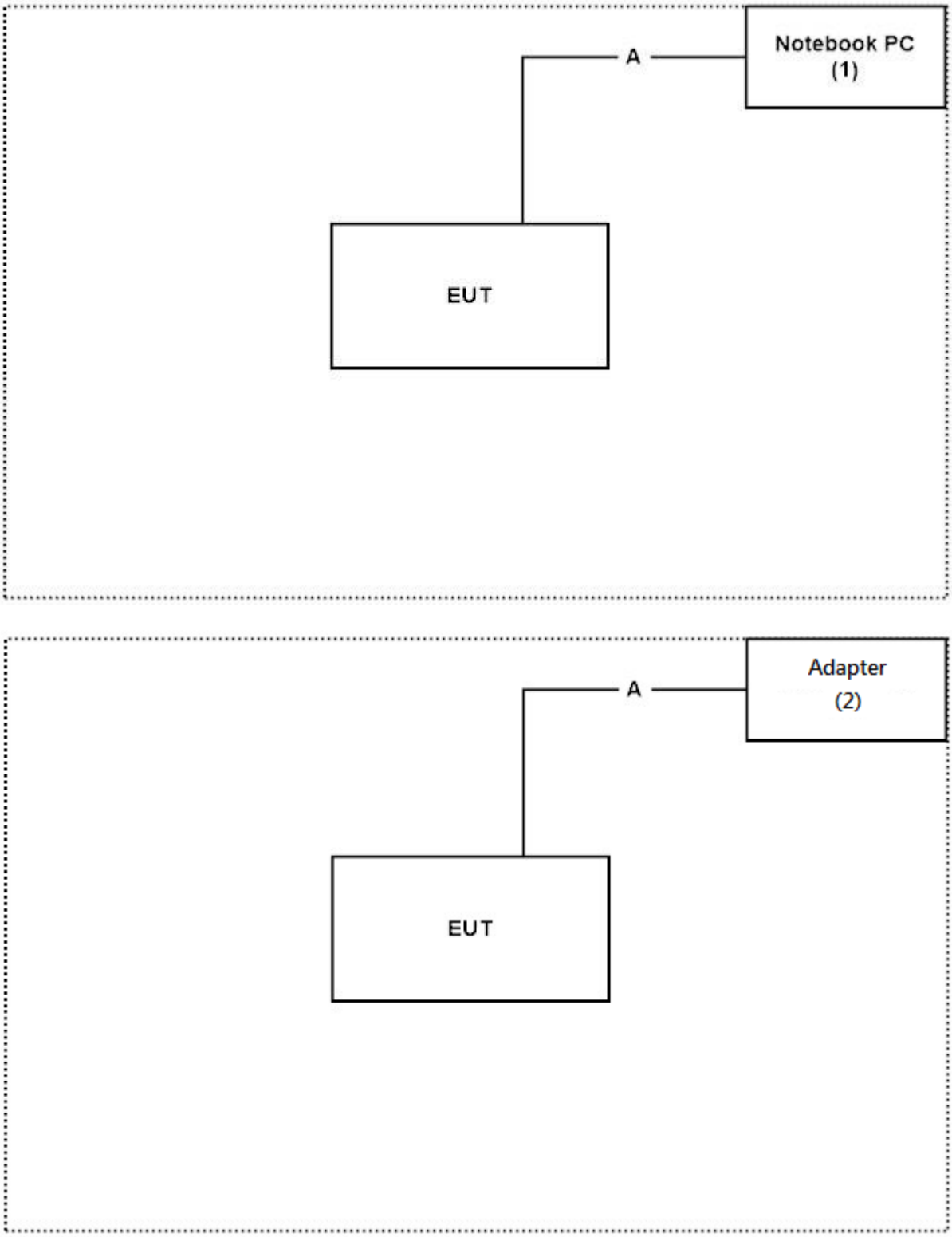
Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 0.25m
B	USB Cable	Shielded, 1.7m

Charge mode

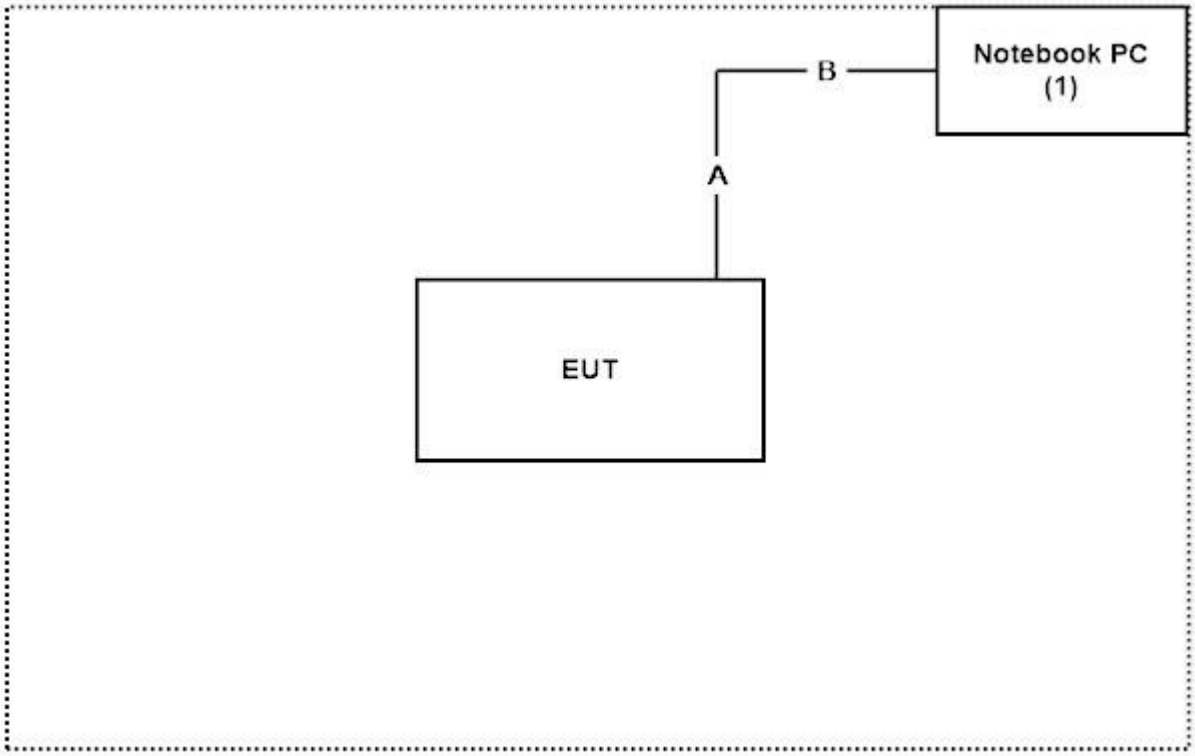
Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 1.2m

1.4. Configuration of Tested System

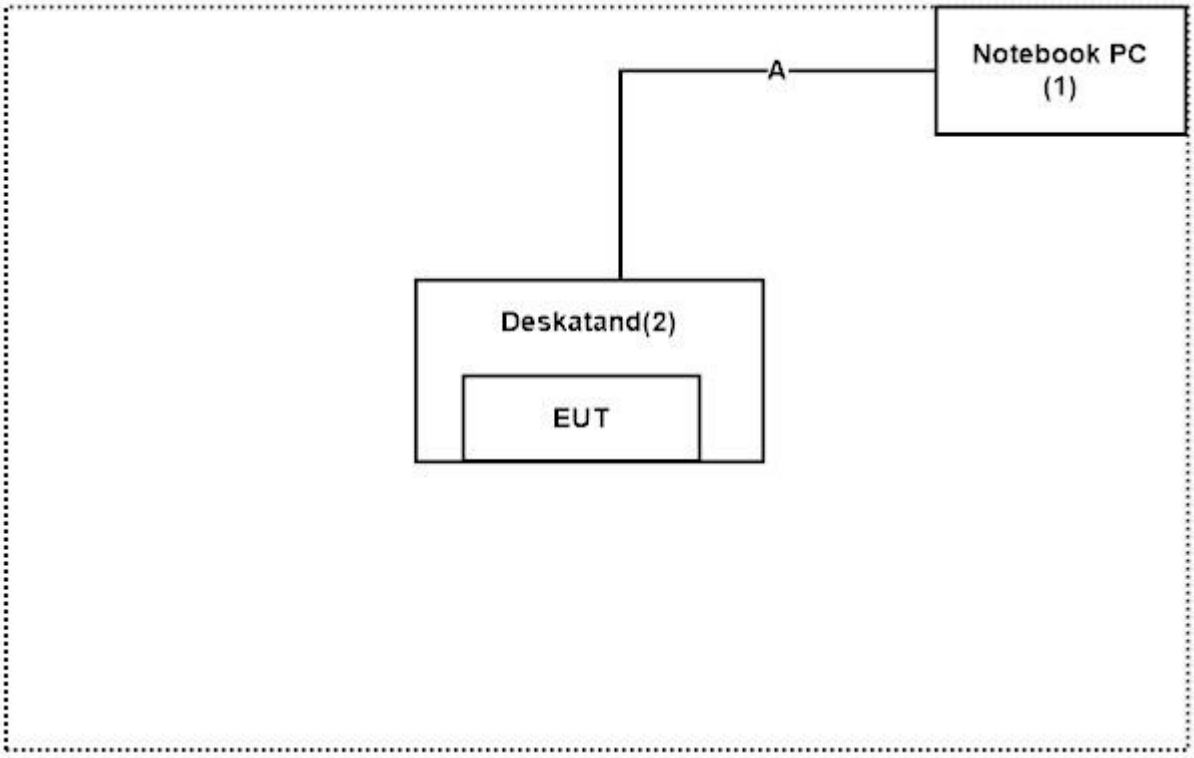
BT mode(stereo headset with adjustable arm & mono earphone with adjustable arm)

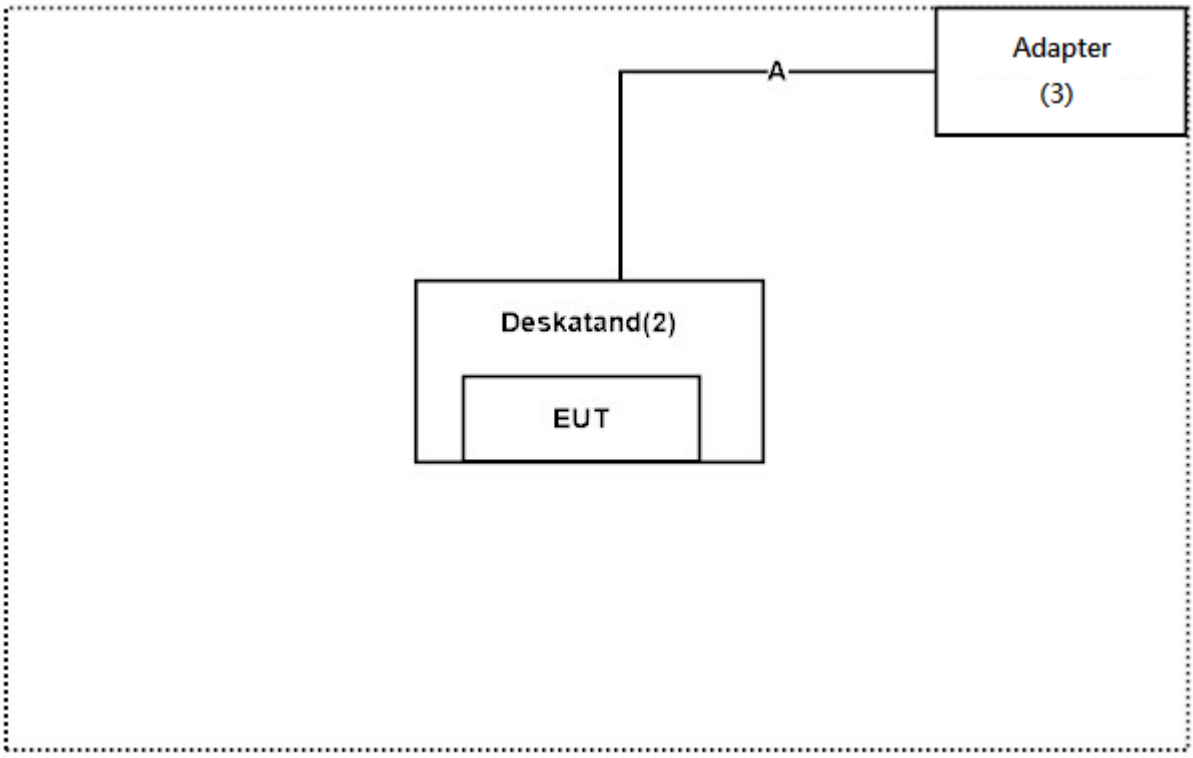


BT mode(stereo headset)



Charge mode





1.5. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4.
2. Execute software “Blue test3, Ver.3.2” on the EUT.
3. Configure the test mode, the test channel, and the data rate.
4. Press “OK” to start the continuous Transmit.
5. Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (℃)	10~40 ℃	23.5 ℃
	Humidity (%RH)	10~90 %	44 %
Radiated Emission	Temperature (℃)	10~40 ℃	22 ℃
	Humidity (%RH)	10~90 %	63 %
Conductive	Temperature (℃)	10~40 ℃	23.4 ℃
	Humidity (%RH)	10~90 %	63.6 %

USA : FCC Registration Number: TW3023

Canada : IC Registration Number: 4075A

Site Description: Accredited by TAF
Accredited Number: 3023

Test Laboratory: DEKRA Testing and Certification Co., Ltd
Address: No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
Phone number: 886-2-8601-3788
Fax number: 886-2-8601-3789
Email address: info.tw@dekra.com
Website: http://www.dekra.com.tw

1.7. List of Test Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2019/02/26	2020/02/25
X	Spectrum Analyzer	Agilent	N9010A	MY53470892	2019/09/25	2020/09/24
X	Peak Power Analyzer	Keysight	8990B	MY51000410	2019/07/30	2020/07/29
X	Wideband Power Sensor	Keysight	N1923A	MY56080003	2019/07/30	2020/07/29
X	Wideband Power Sensor	Keysight	N1923A	MY56080004	2019/07/30	2020/07/29
X	EMI Test Receiver	R&S	ESCS 30	100369	2018/11/19	2019/11/18
X	LISN	R&S	ENV216	101105	2019/04/10	2020/04/09
X	LISN	R&S	ESH3-Z5	836679/014	2019/04/10	2020/04/09
X	Coaxial Cable	DEKRA	RG 400	LC018-RG	2019/06/20	2020/06/19

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version :DEKRA Conduction Test SystemV9.0.5.

For Radiated measurements /Site3/CB8

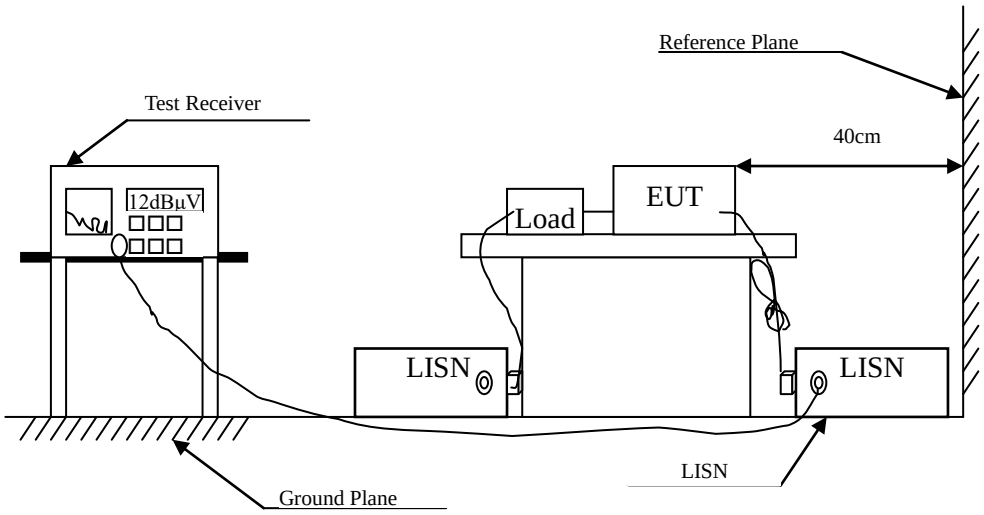
	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Spectrum Analyzer	R&S	FSP40	100170	2019/03/11	2020/03/10
X	Loop Antenna	Teseq	HLA6121	37133	2019/10/15	2021/10/14
X	Bilog Antenna	Schaffner Chase	CBL6112B	2794	2019/06/23	2020/06/22
X	Coaxial Cable	DEKRA	L1907-001C	280280.F141.1000D	2019/07/10	2020/07/09
X	Amplifier	EMCI	EMC001330	980254	2019/08/22	2020/08/21
X	Horn Antenna	ETS-LINDGREN	3117	00228113	2019/05/02	2020/05/01
X	Coaxial Cable	DEKRA	L1907-002C	280280.F141.1000D	2019/07/10	2020/07/09
X	Amplifier	EMCI	EMC05820SE	980362	2019/06/26	2020/06/25
X	Amplifier	EMCI	EMC051845SE	SN980632	2019/08/08	2020/08/07
	Horn Antenna	Com-Power	AH-1840	101101	2019/10/31	2020/10/30
	Amplifier + Cable	EMCI	EMC184045SE	980369	2019/04/16	2020/04/15
	Bilog Antenna	Schaffner Chase	CBL6112B	2916	2019/06/23	2020/06/22
	Coaxial Cable	DEKRA	L1907-003C	00100A1B3A120M	2019/07/10	2020/07/09
	Amplifier	EMCI	EMC001330	980255	2019/06/28	2020/06/27
X	Filter	MICRO-TRONICS	BRM50702	G270	2019/08/08	2020/08/07
	Filter	MICRO-TRONICS	BRM50716	G196	2019/08/08	2020/08/07

Note:

1. Loop Antenna is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with “X” are used to measure the final test results.
3. Test Software version :QuieTek EMI System V2.1.134.

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit		
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.

2.3. 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 invested 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.

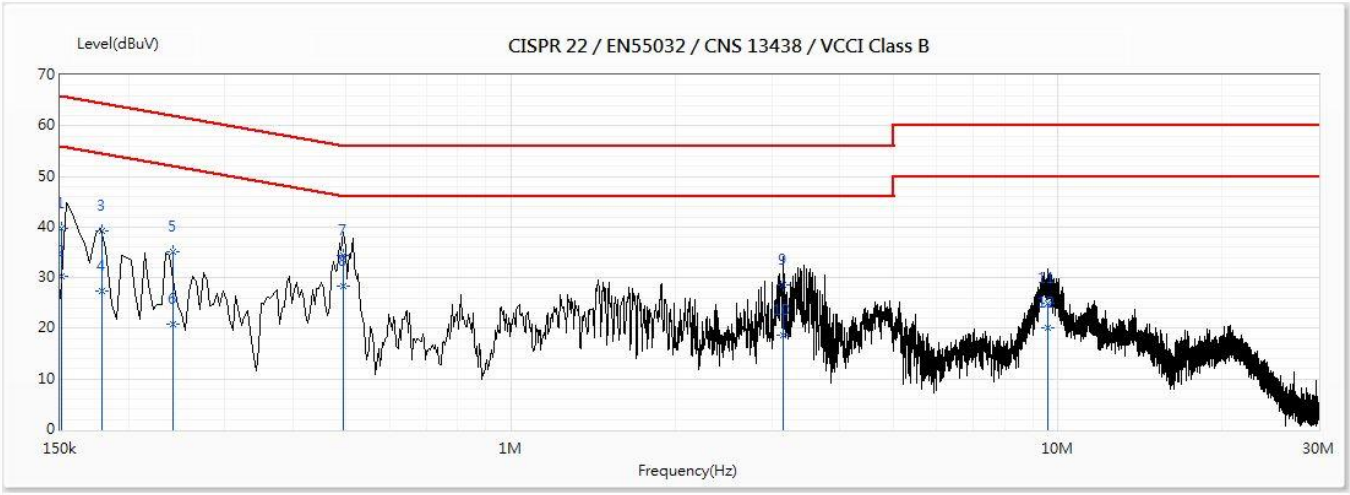
2.4. Uncertainty

± 2.26 dB

2.5. Test Result of Conducted Emission

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2019/11/08
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2441MHz)

Line 1



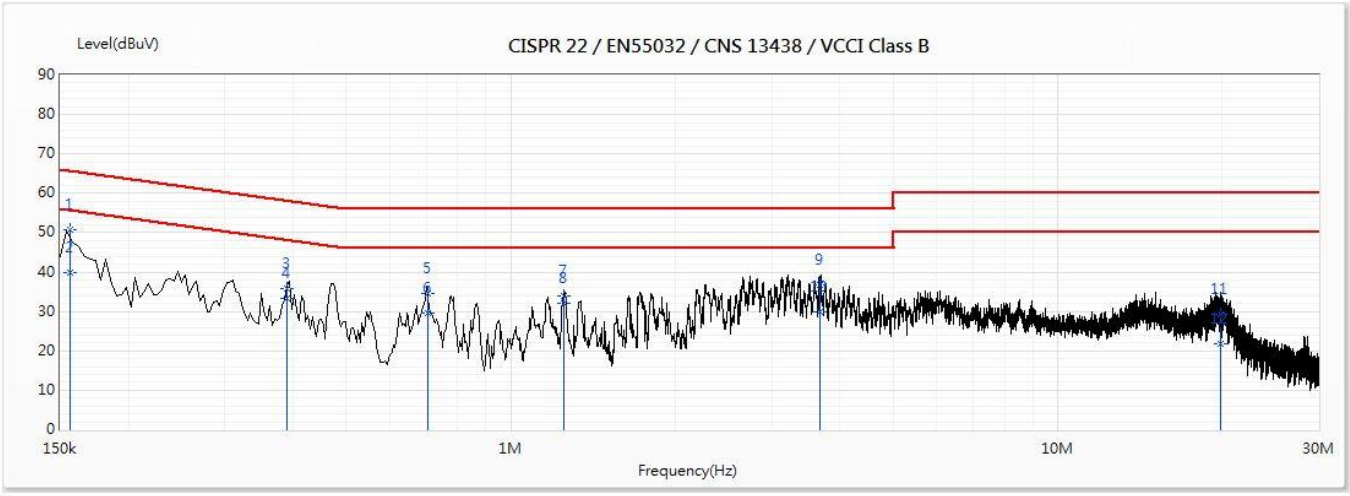
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
1	0.151	39.67	65.94	-26.27	29.98	0.12	9.57	QP
2	0.151	30.25	55.94	-25.70	20.55	0.12	9.57	AV
3	0.179	39.24	64.55	-25.31	29.55	0.12	9.57	QP
4	0.179	27.34	54.55	-27.20	17.65	0.12	9.57	AV
5	0.241	35.04	62.05	-27.01	25.34	0.12	9.57	QP
6	0.241	20.91	52.05	-31.14	11.22	0.12	9.57	AV
7	0.493	34.37	56.12	-21.76	24.67	0.13	9.57	QP
*8	0.493	28.31	46.12	-17.81	18.61	0.13	9.57	AV
9	3.153	28.57	56.00	-27.43	18.75	0.23	9.59	QP
10	3.153	18.63	46.00	-27.37	8.82	0.23	9.59	AV
11	9.616	24.91	60.00	-35.09	14.90	0.37	9.64	QP
12	9.616	20.06	50.00	-29.94	10.05	0.37	9.64	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2019/11/08
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2441MHz)

Line 2



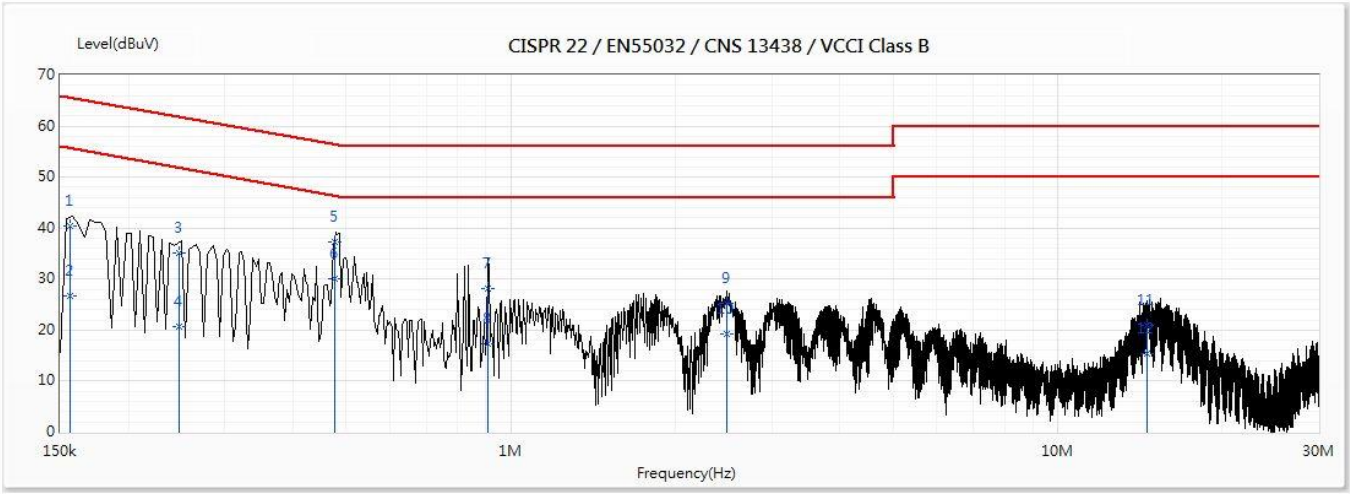
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
1	0.157	50.64	65.64	-15.00	40.91	0.12	9.61	QP
2	0.157	39.92	55.64	-15.72	30.19	0.12	9.61	AV
3	0.39	35.91	58.06	-22.15	26.18	0.13	9.60	QP
4	0.39	33.39	48.06	-14.67	23.66	0.13	9.60	AV
5	0.705	34.69	56.00	-21.31	24.95	0.14	9.61	QP
6	0.705	29.51	46.00	-16.49	19.76	0.14	9.61	AV
7	1.252	34.05	56.00	-21.95	24.27	0.17	9.61	QP
*8	1.252	31.93	46.00	-14.07	22.15	0.17	9.61	AV
9	3.684	36.82	56.00	-19.18	26.95	0.24	9.63	QP
10	3.684	29.89	46.00	-16.11	20.02	0.24	9.63	AV
11	19.894	29.38	60.00	-30.62	19.02	0.52	9.84	QP
12	19.894	21.65	50.00	-28.35	11.29	0.52	9.84	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2020/01/10
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2441MHz)-Adapter

Line 1



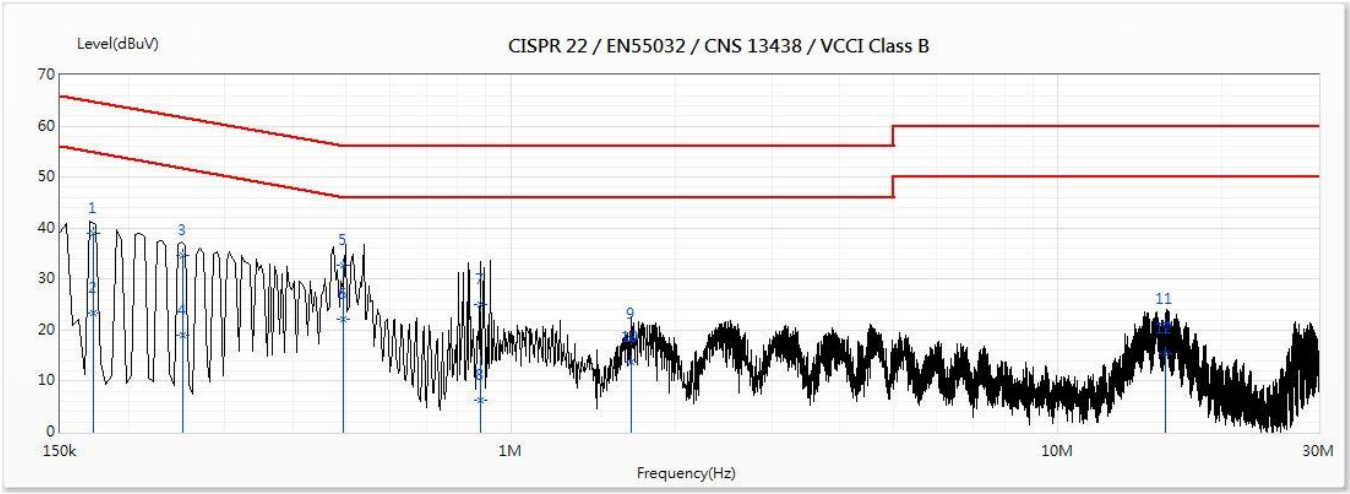
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.156	40.37	65.68	-25.30	30.68	9.69	QP
2	0.156	26.67	55.68	-29.01	16.98	9.69	AV
3	0.247	35.06	61.85	-26.79	25.36	9.69	QP
4	0.247	20.64	51.85	-31.21	10.95	9.69	AV
5	0.476	37.31	56.41	-19.10	27.61	9.70	QP
*6	0.476	29.95	46.41	-16.46	20.25	9.70	AV
7	0.909	28.23	56.00	-27.77	18.50	9.72	QP
8	0.909	17.34	46.00	-28.66	7.61	9.72	AV
9	2.484	25.28	56.00	-30.72	15.48	9.79	QP
10	2.484	19.33	46.00	-26.67	9.53	9.79	AV
11	14.565	20.97	60.00	-39.03	10.88	10.09	QP
12	14.565	15.45	50.00	-34.55	5.36	10.09	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2020/01/10
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2441MHz)-Adapter

Line 2



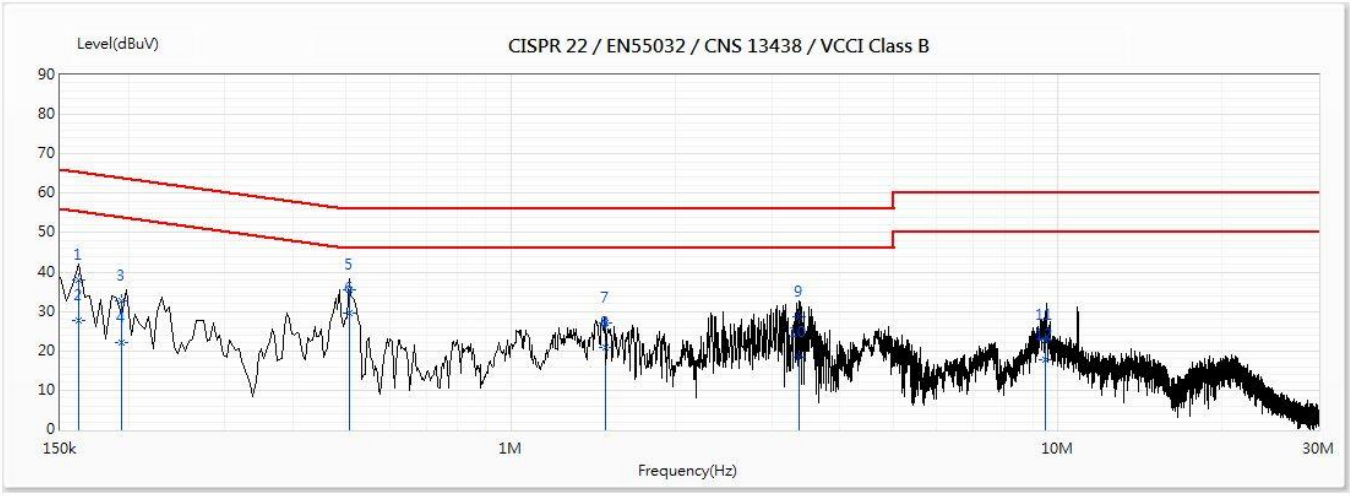
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.172	39.08	64.85	-25.77	29.35	9.73	QP
2	0.172	23.26	54.85	-31.59	13.53	9.73	AV
3	0.251	34.71	61.71	-27.00	24.99	9.72	QP
4	0.251	19.10	51.71	-32.62	9.37	9.72	AV
*5	0.494	32.79	56.10	-23.31	23.06	9.73	QP
6	0.494	22.04	46.10	-24.07	12.30	9.73	AV
7	0.878	25.06	56.00	-30.94	15.30	9.76	QP
8	0.878	6.26	46.00	-39.74	-3.50	9.76	AV
9	1.662	18.32	56.00	-37.68	8.52	9.81	QP
10	1.662	13.79	46.00	-32.21	3.98	9.81	AV
11	15.78	21.05	60.00	-38.95	10.80	10.25	QP
12	15.78	15.41	50.00	-34.59	5.16	10.25	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2019/11/08
Test Mode : Mode 4: Charge

Line 1



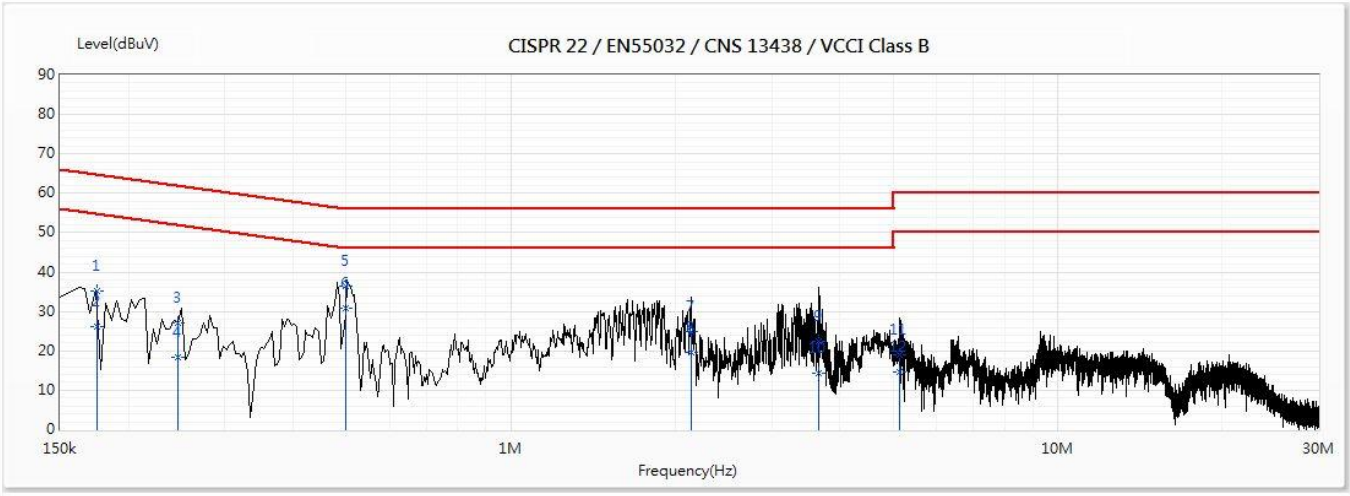
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
1	0.162	37.93	65.35	-27.42	28.24	0.12	9.57	QP
2	0.162	27.72	55.35	-27.63	18.03	0.12	9.57	AV
3	0.194	32.79	63.86	-31.07	23.10	0.12	9.57	QP
4	0.194	22.15	53.86	-31.71	12.46	0.12	9.57	AV
5	0.506	35.49	56.00	-20.51	25.79	0.13	9.57	QP
*6	0.506	29.62	46.00	-16.38	19.92	0.13	9.57	AV
7	1.487	26.99	56.00	-29.01	17.24	0.18	9.57	QP
8	1.487	20.77	46.00	-25.23	11.02	0.18	9.57	AV
9	3.369	28.65	56.00	-27.35	18.82	0.24	9.59	QP
10	3.369	18.27	46.00	-27.73	8.45	0.24	9.59	AV
11	9.516	22.71	60.00	-37.29	12.71	0.37	9.64	QP
12	9.516	17.77	50.00	-32.23	7.77	0.37	9.64	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2019/11/08
Test Mode : Mode 4: Charge

Line 2



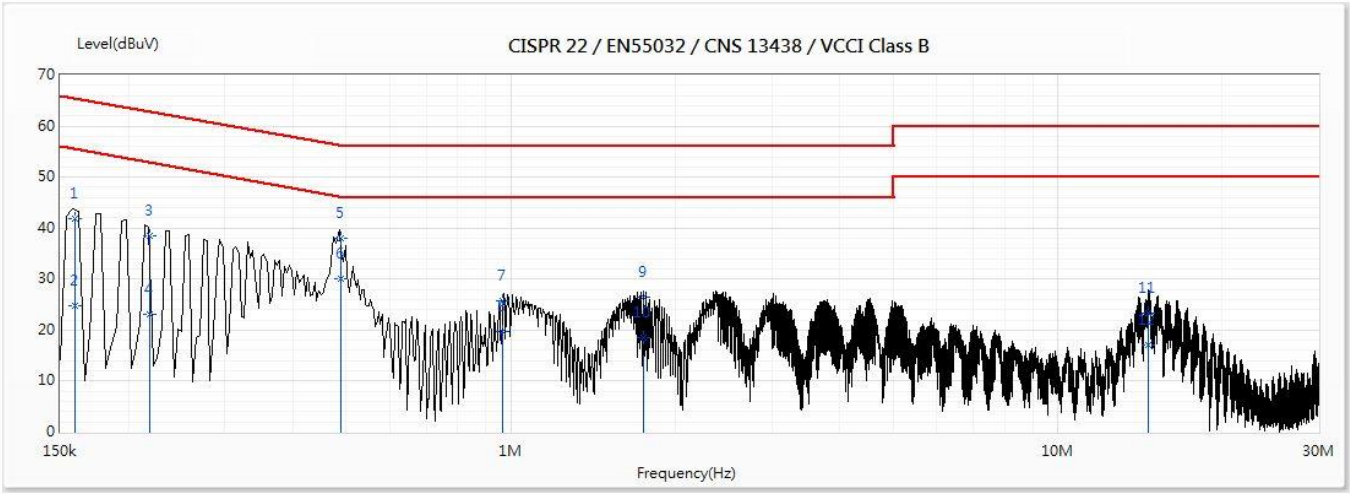
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Cable Loss (dB)	LISN (dB)	Detector Type
1	0.175	35.30	64.71	-29.41	25.57	0.12	9.60	QP
2	0.175	26.02	54.71	-28.69	16.30	0.12	9.60	AV
3	0.246	27.21	61.90	-34.69	17.49	0.12	9.60	QP
4	0.246	18.40	51.90	-33.50	8.68	0.12	9.60	AV
5	0.5	36.57	56.00	-19.43	26.84	0.13	9.60	QP
*6	0.5	30.68	46.00	-15.32	20.95	0.13	9.60	AV
7	2.134	25.06	56.00	-30.94	15.23	0.20	9.62	QP
8	2.134	19.54	46.00	-26.46	9.71	0.20	9.62	AV
9	3.657	22.51	56.00	-33.49	12.64	0.24	9.63	QP
10	3.657	14.20	46.00	-31.80	4.33	0.24	9.63	AV
11	5.148	19.04	60.00	-40.96	9.11	0.28	9.65	QP
12	5.148	14.69	50.00	-35.31	4.77	0.28	9.65	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2020/01/10
Test Mode : Mode 4: Charge-Adapter

Line 1



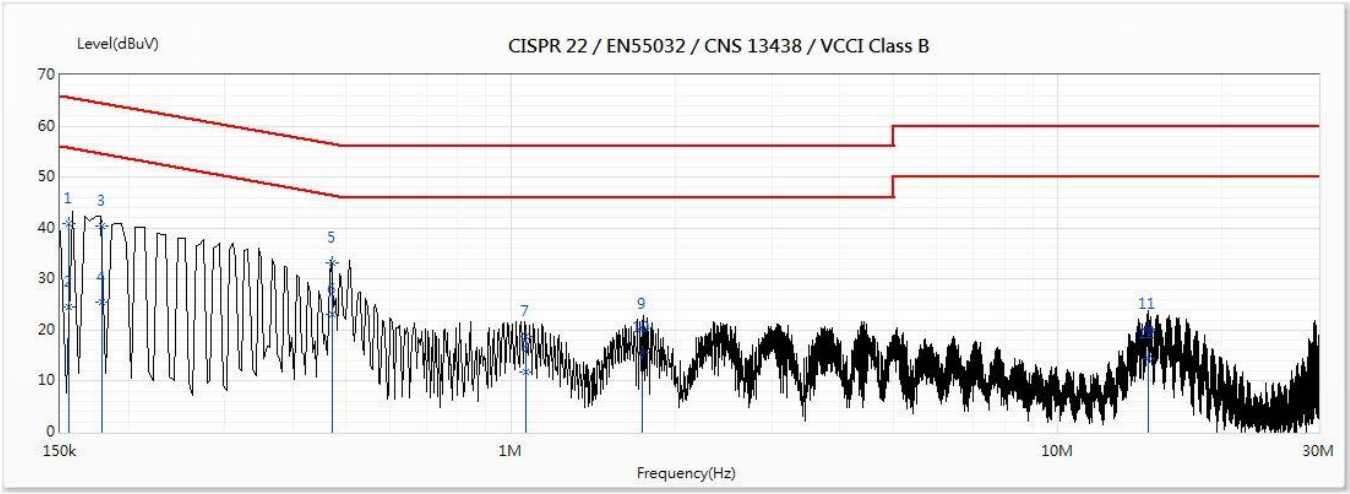
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.16	41.83	65.48	-23.66	32.14	9.69	QP
2	0.16	24.73	55.48	-30.75	15.04	9.69	AV
3	0.218	38.38	62.89	-24.51	28.68	9.69	QP
4	0.218	23.10	52.89	-29.79	13.41	9.69	AV
5	0.488	38.02	56.20	-18.18	28.32	9.70	QP
*6	0.488	29.98	46.20	-16.22	20.28	9.70	AV
7	0.966	25.85	56.00	-30.15	16.12	9.73	QP
8	0.966	19.84	46.00	-26.16	10.11	9.73	AV
9	1.747	26.46	56.00	-29.54	16.70	9.77	QP
10	1.747	18.58	46.00	-27.42	8.82	9.77	AV
11	14.673	23.29	60.00	-36.71	13.19	10.10	QP
12	14.673	17.19	50.00	-32.81	7.10	10.10	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

Product : Bluetooth Headset
Test Item : Conducted Emission Test
Test date : 2020/01/10
Test Mode : Mode 4: Charge-Adapter

Line 2



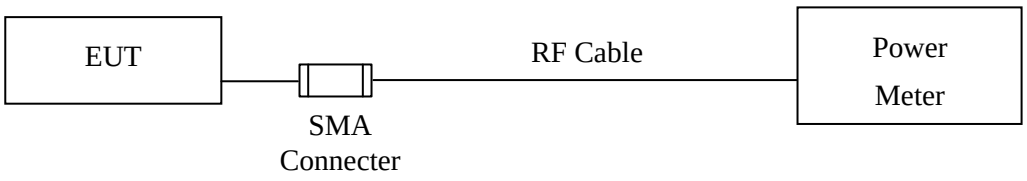
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.156	40.83	65.69	-24.86	31.10	9.73	QP
2	0.156	24.44	55.69	-31.25	14.71	9.73	AV
3	0.179	40.45	64.55	-24.09	30.73	9.72	QP
4	0.179	25.48	54.55	-29.07	15.75	9.72	AV
*5	0.472	33.10	56.48	-23.38	23.37	9.73	QP
6	0.472	22.99	46.48	-23.49	13.26	9.73	AV
7	1.063	18.88	56.00	-37.12	9.10	9.77	QP
8	1.063	11.77	46.00	-34.23	2.00	9.77	AV
9	1.742	20.31	56.00	-35.69	10.50	9.81	QP
10	1.742	15.75	46.00	-30.25	5.94	9.81	AV
11	14.621	20.19	60.00	-39.81	9.98	10.21	QP
12	14.621	14.32	50.00	-35.68	4.11	10.21	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.

3. Peak Power Output

3.1. Test Setup



3.2. Limit

The maximum peak power shall be less 1Watt.

3.3. 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.

3.4. Uncertainty

± 1.19 dB

3.5. Test Result of Peak Power Output

Product : Bluetooth Headset
Test Item : Peak Power Output
Test date : 2019/11/11
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
Channel 00	2402.00	8.65	1 Watt= 30 dBm	Pass
Channel 39	2441.00	8.34	1 Watt= 30 dBm	Pass
Channel 78	2480.00	8.13	1 Watt= 30 dBm	Pass

Product : Bluetooth Headset
Test Item : Peak Power Output
Test date : 2019/11/11
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
Channel 00	2402.00	10.56	1 Watt= 30 dBm	Pass
Channel 39	2441.00	10.29	1 Watt= 30 dBm	Pass
Channel 78	2480.00	10.05	1 Watt= 30 dBm	Pass

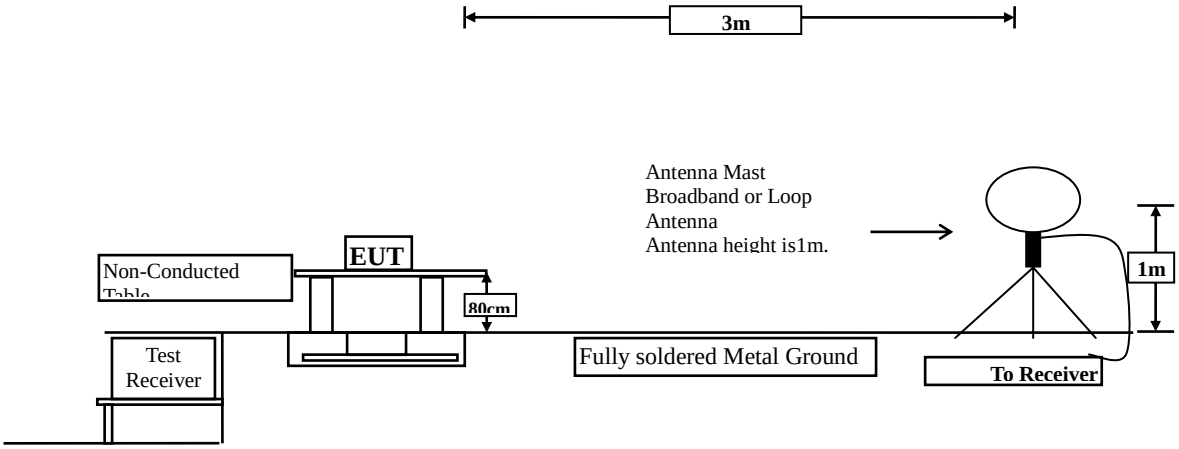
Product : Bluetooth Headset
Test Item : Peak Power Output
Test date : 2019/11/11
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
Channel 00	2402.00	11.02	1 Watt= 30 dBm	Pass
Channel 39	2441.00	10.77	1 Watt= 30 dBm	Pass
Channel 78	2480.00	10.58	1 Watt= 30 dBm	Pass

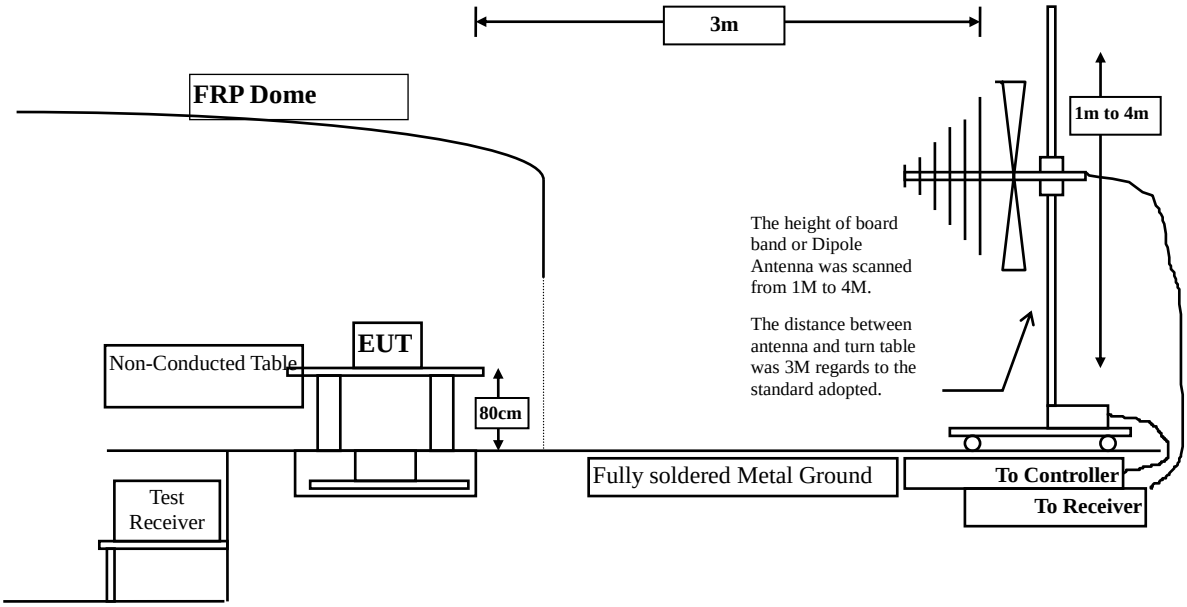
4. Radiated Emission

4.1. Test Setup

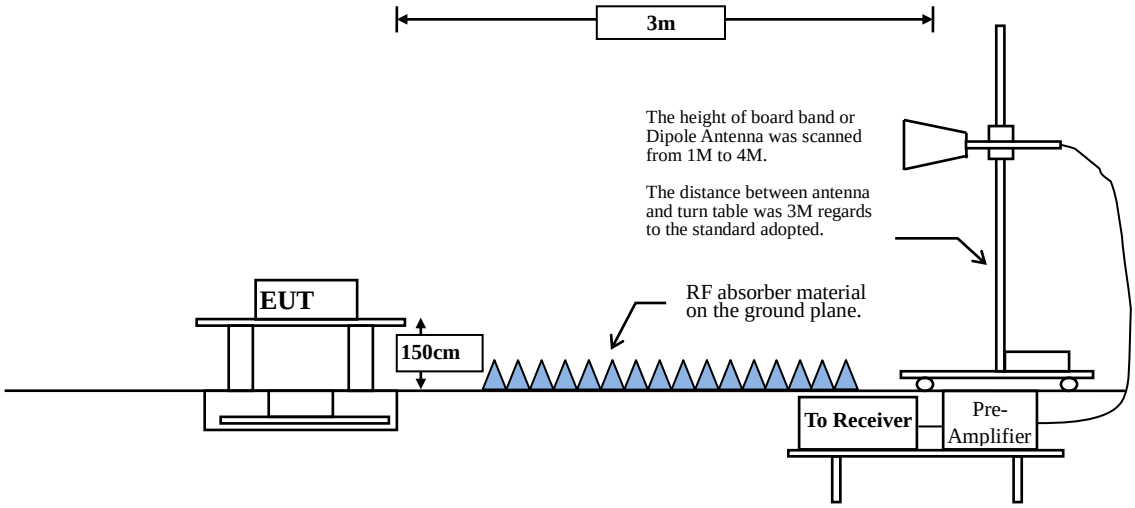
Under 30MHz



Below 1GHz



Above 1GHz



4.2. 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	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.247 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 form 9kHz - 10th Harmonic of fundamental was investigated.

4.4. Uncertainty

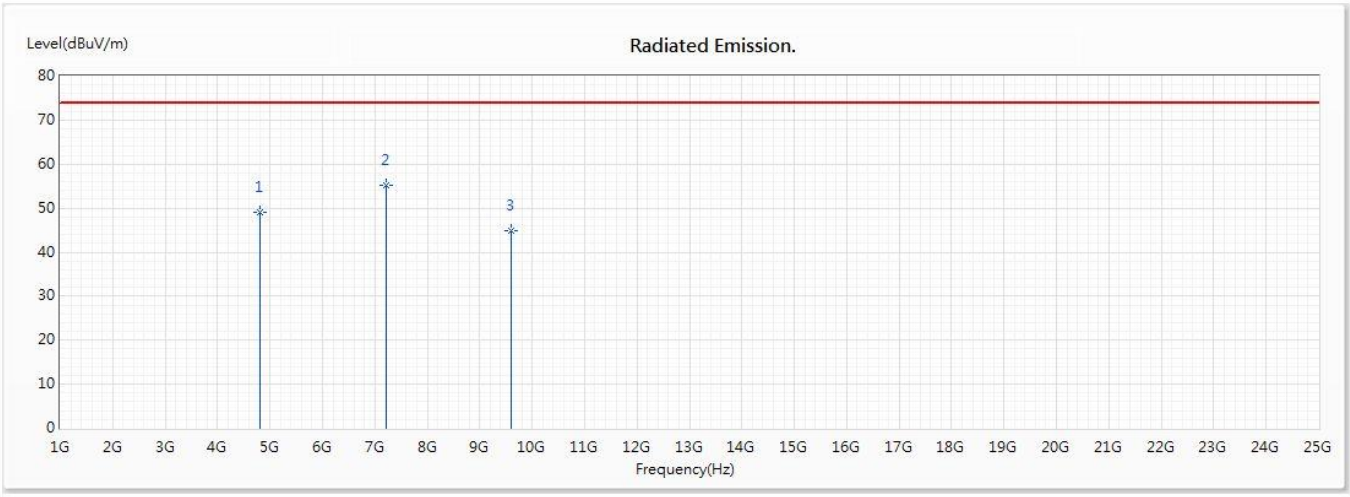
± 4.08 dB above 1GHz

± 4.22 dB below 1GHz

4.5. Test Result of Radiated Emission

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2402MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	49.04	74.00	-24.96	61.19	-12.15	PK
* 2	7206	55.22	74.00	-18.78	68.36	-13.14	PK
3	9608	44.78	74.00	-29.22	58.20	-13.42	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

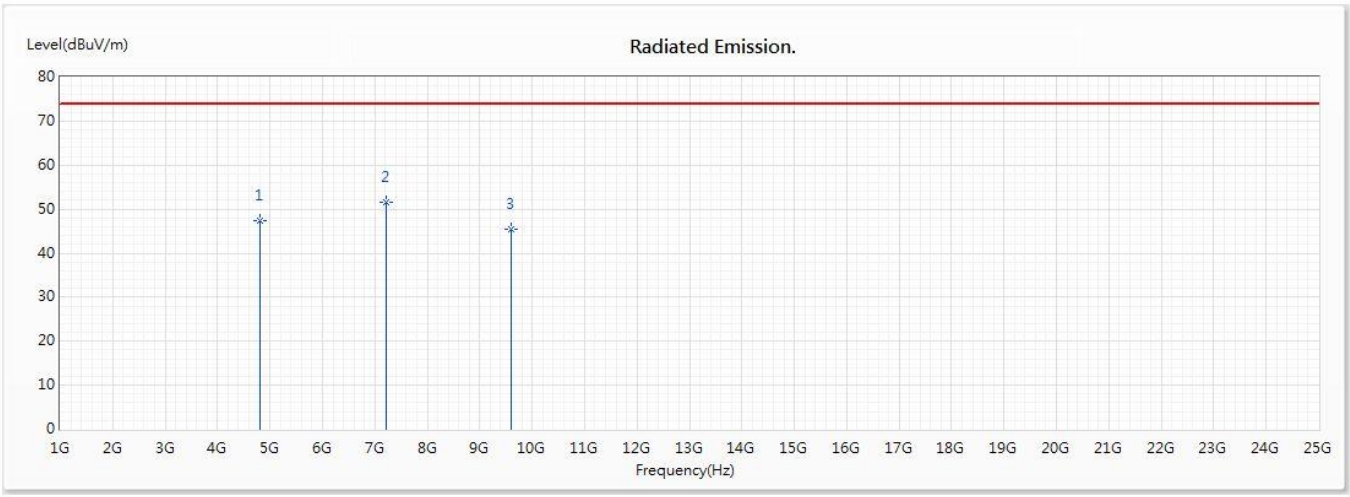
No.	**Frequency (MHz)**	**Peak Measurement (dBµV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBµV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7206	55.22	-24.734	30.486	-23.514	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2402MHz)

Vertical



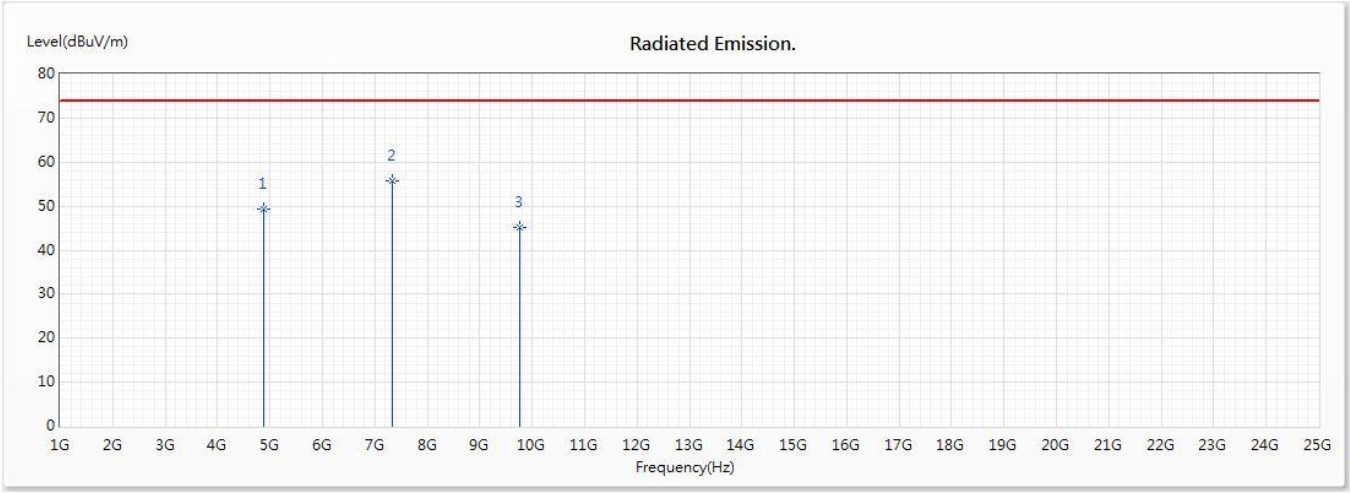
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	47.42	74.00	-26.58	59.57	-12.15	PK
* 2	7206	51.43	74.00	-22.57	64.57	-13.14	PK
3	9608	45.41	74.00	-28.59	58.83	-13.42	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2441MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	49.40	74.00	-24.60	60.99	-11.59	PK
* 2	7323	55.85	74.00	-18.15	69.42	-13.57	PK
3	9764	45.29	74.00	-28.71	57.81	-12.52	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

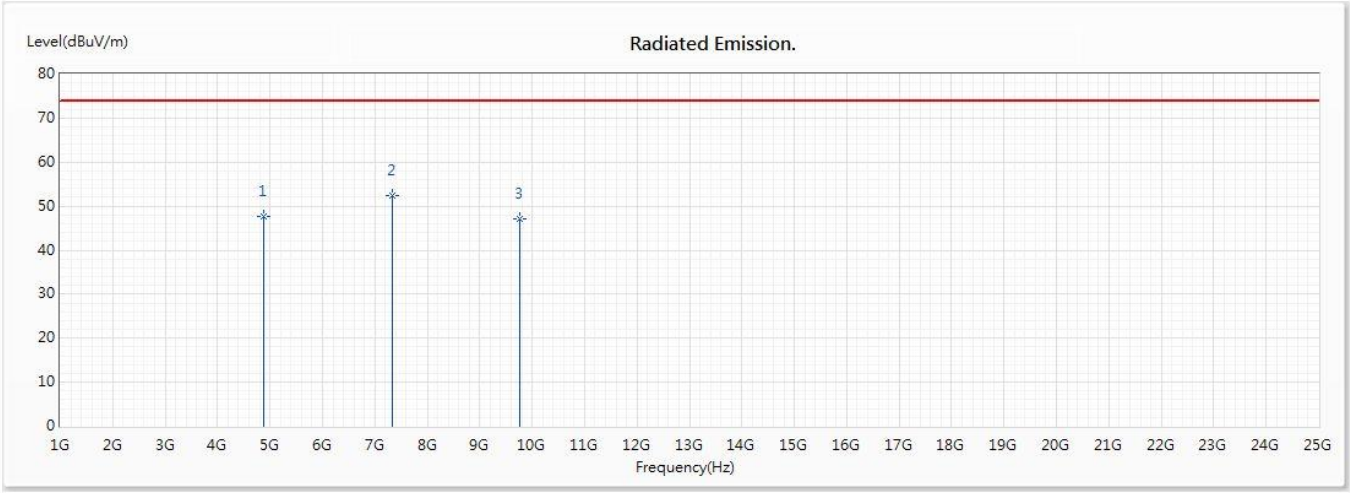
No.	**Frequency (MHz)**	**Peak Measurement (dBµV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBµV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7323	55.85	-24.734	31.116	-22.884	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2441MHz)

Vertical



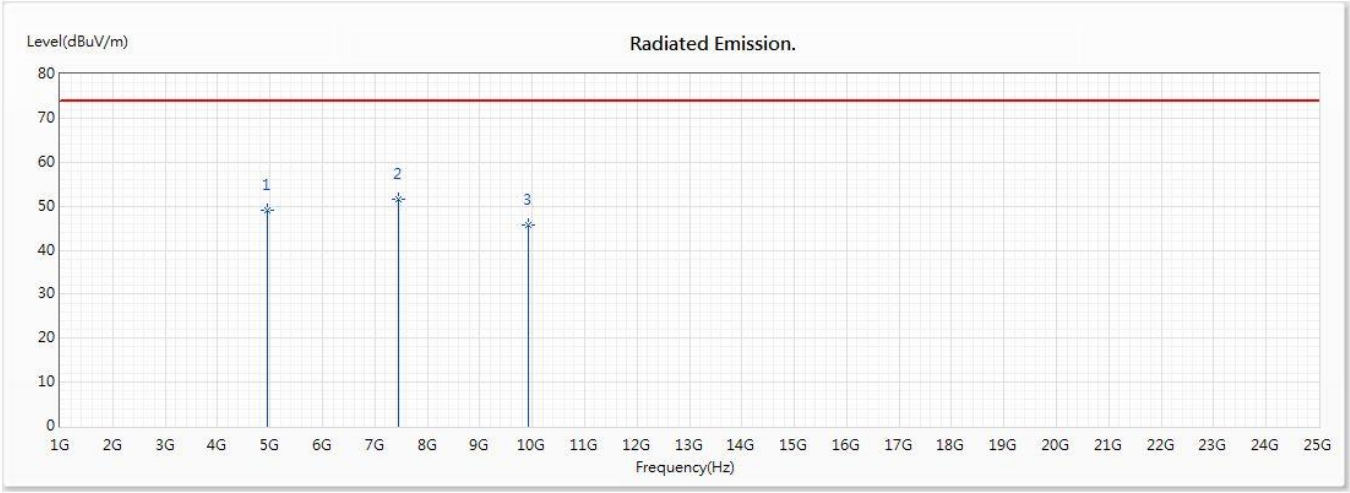
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	47.74	74.00	-26.26	59.33	-11.59	PK
* 2	7323	52.31	74.00	-21.69	65.88	-13.57	PK
3	9764	47.09	74.00	-26.91	59.61	-12.52	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

Horizontal



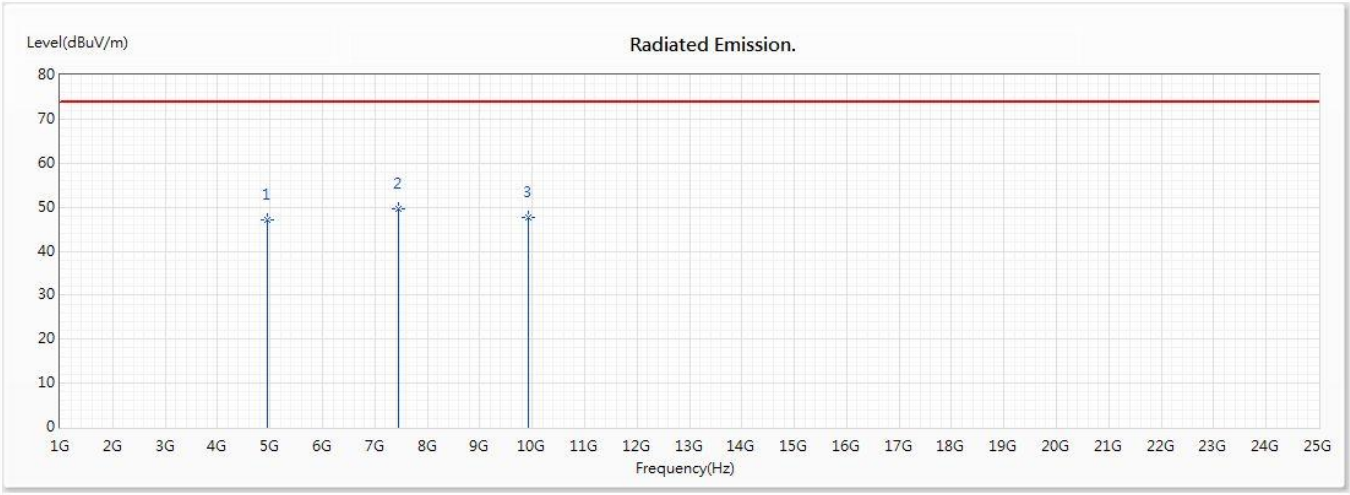
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	49.15	74.00	-24.85	60.04	-10.89	PK
* 2	7440	51.63	74.00	-22.37	66.25	-14.62	PK
3	9920	45.76	74.00	-28.24	59.99	-14.23	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 1: Transmit - 1Mbps (GFSK)(2480MHz)

Vertical



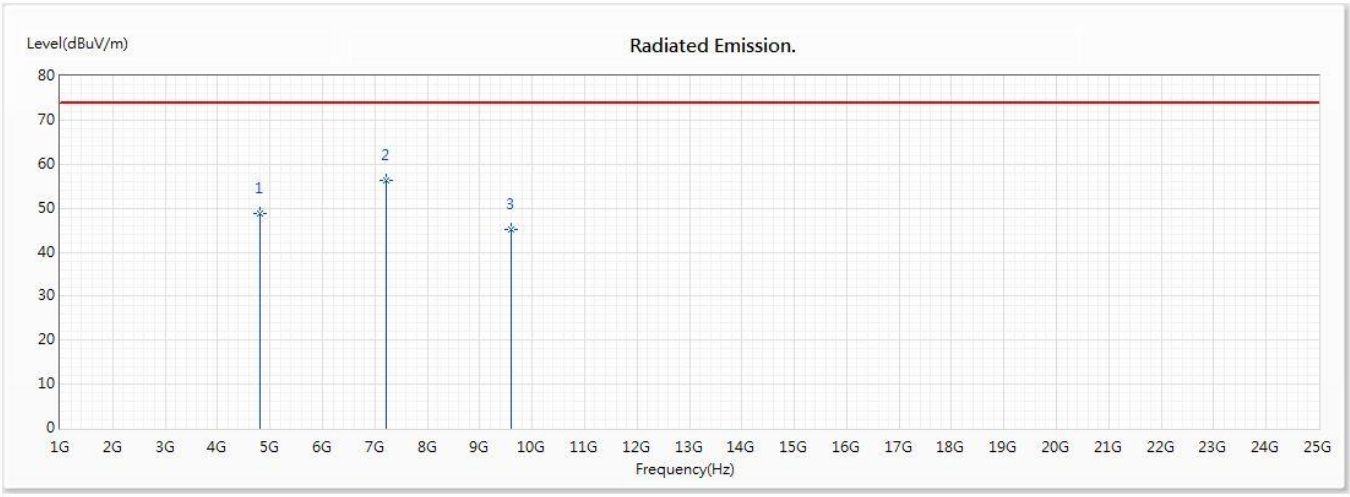
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	47.20	74.00	-26.80	58.09	-10.89	PK
* 2	7440	49.62	74.00	-24.38	64.24	-14.62	PK
3	9920	47.66	74.00	-26.34	61.89	-14.23	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK) (2402MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	48.78	74.00	-25.22	60.93	-12.15	PK
* 2	7206	56.30	74.00	-17.70	69.44	-13.14	PK
3	9608	45.08	74.00	-28.92	58.50	-13.42	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

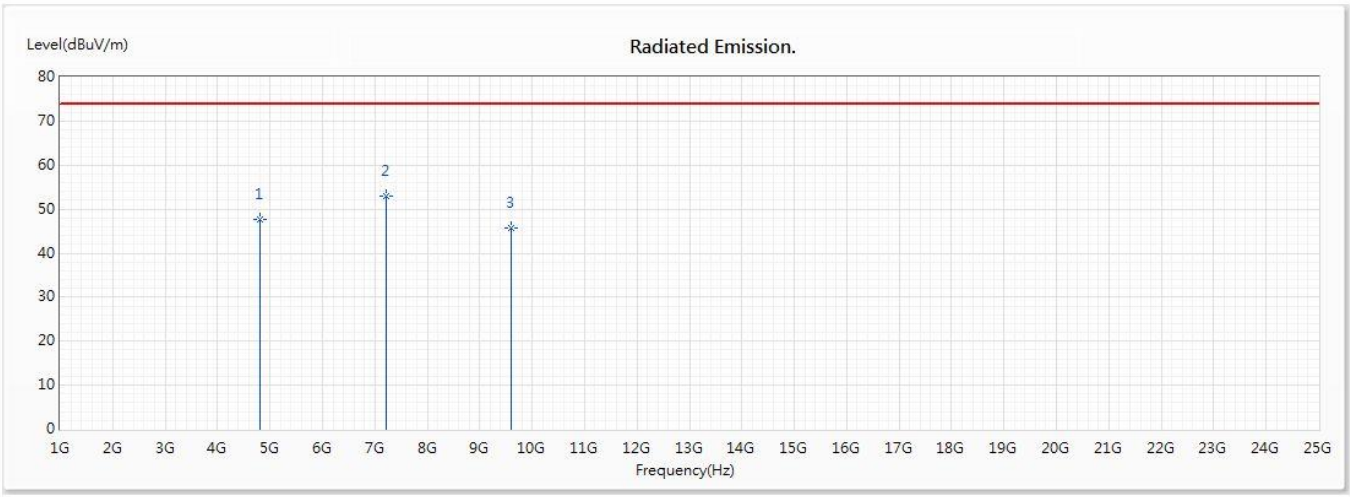
No.	**Frequency (MHz)**	**Peak Measurement (dBμV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBμV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7206	56.3	-24.954	31.346	-22.654	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK) (2402MHz)

Vertical



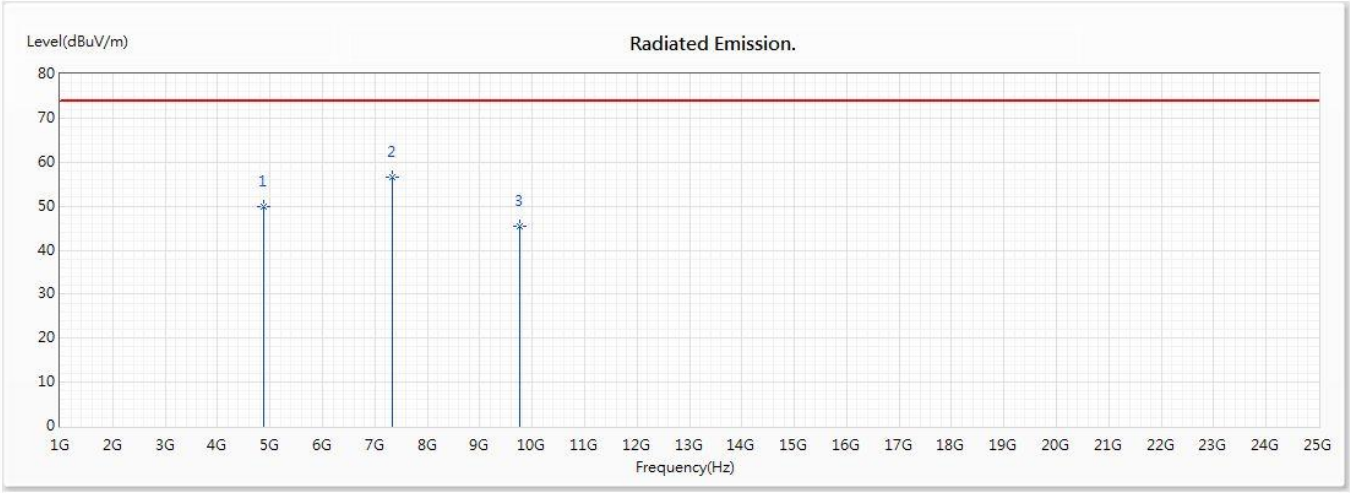
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	47.76	74.00	-26.24	59.91	-12.15	PK
* 2	7206	52.85	74.00	-21.15	65.99	-13.14	PK
3	9608	45.78	74.00	-28.22	59.20	-13.42	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK) (2441MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	49.89	74.00	-24.11	61.48	-11.59	PK
* 2	7323	56.72	74.00	-17.28	70.29	-13.57	PK
3	9764	45.36	74.00	-28.64	57.88	-12.52	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

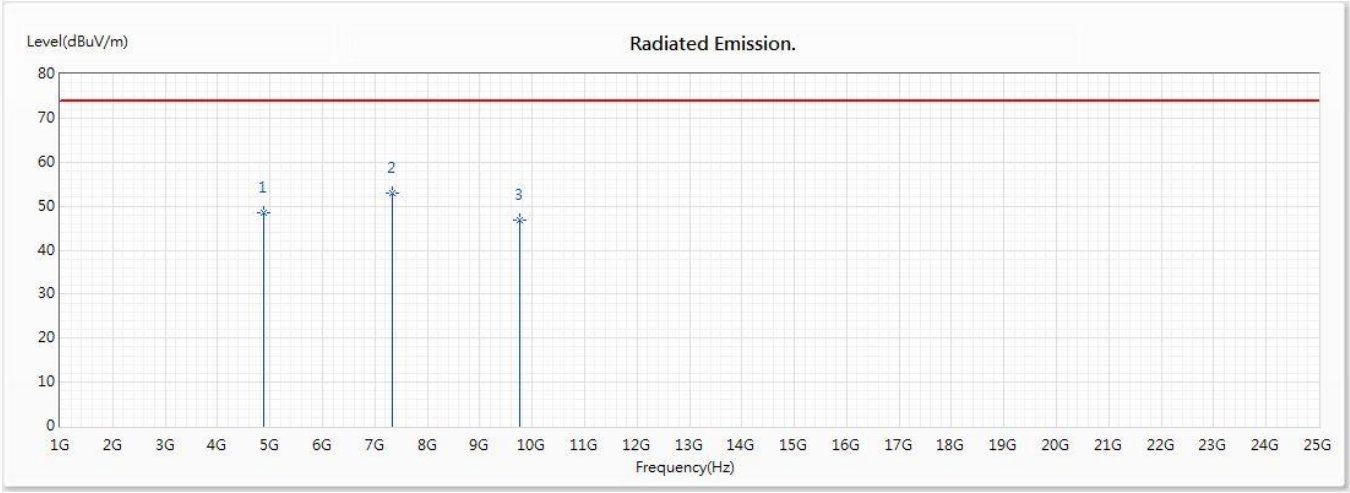
No.	**Frequency (MHz)**	**Peak Measurement (dBμV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBμV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7323	56.72	-24.954	31.766	-22.234	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK) (2441MHz)

Vertical



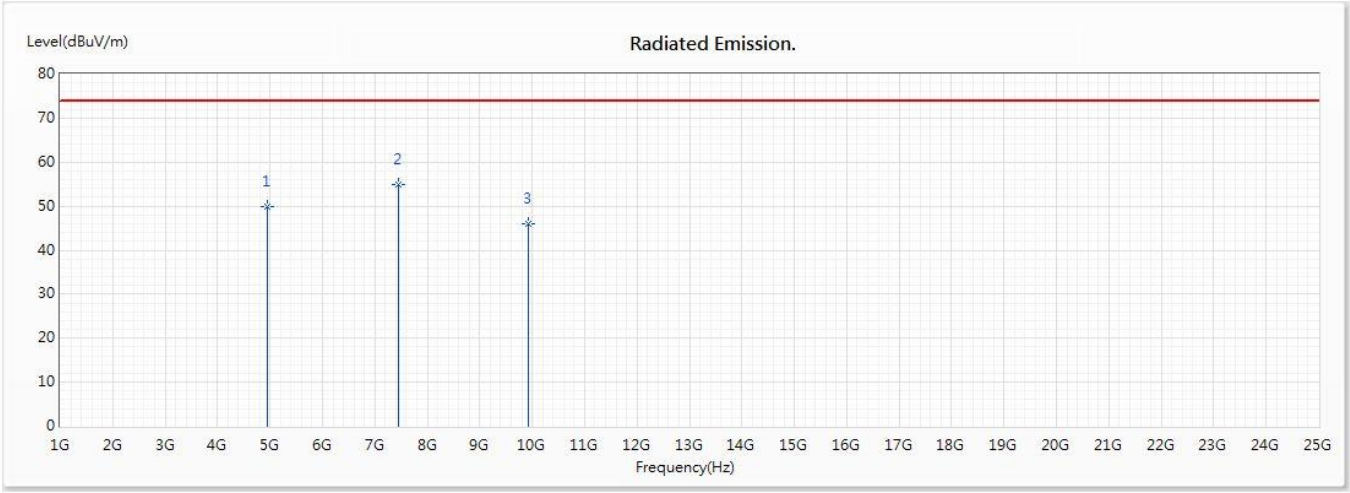
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	48.38	74.00	-25.62	59.97	-11.59	PK
* 2	7323	52.98	74.00	-21.02	66.55	-13.57	PK
3	9764	46.91	74.00	-27.09	59.43	-12.52	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK) (2480MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	49.88	74.00	-24.12	60.77	-10.89	PK
* 2	7440	54.80	74.00	-19.20	69.42	-14.62	PK
3	9920	46.11	74.00	-27.89	60.34	-14.23	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

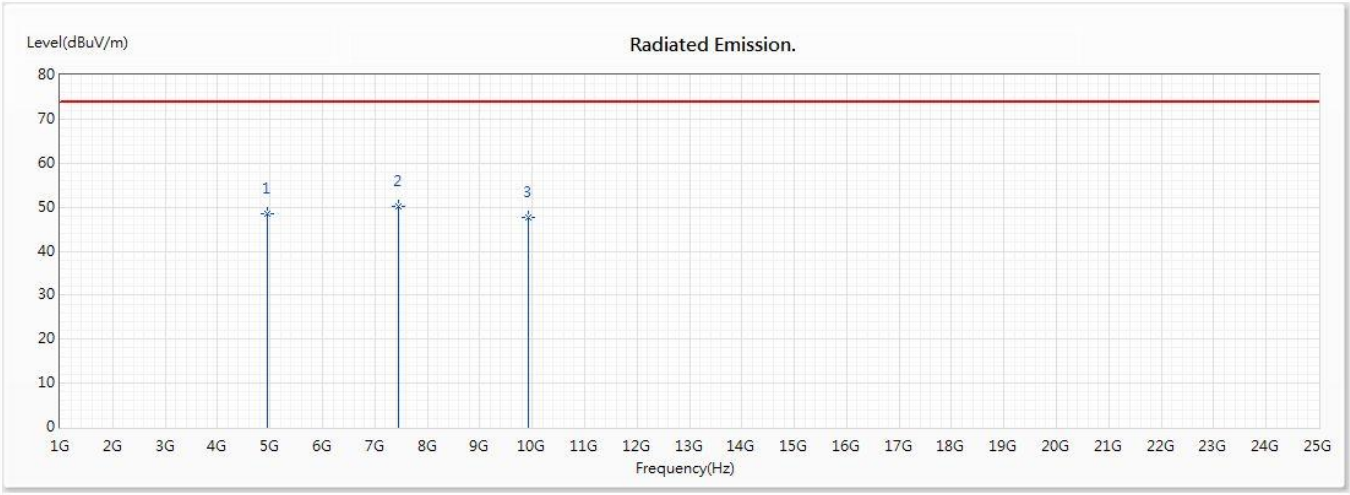
No.	**Frequency (MHz)**	**Peak Measurement (dBμV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBμV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7440	54.8	-24.954	29.846	-24.154	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 2: Transmit - 2Mbps (π/4DQPSK)(2480MHz)

Vertical



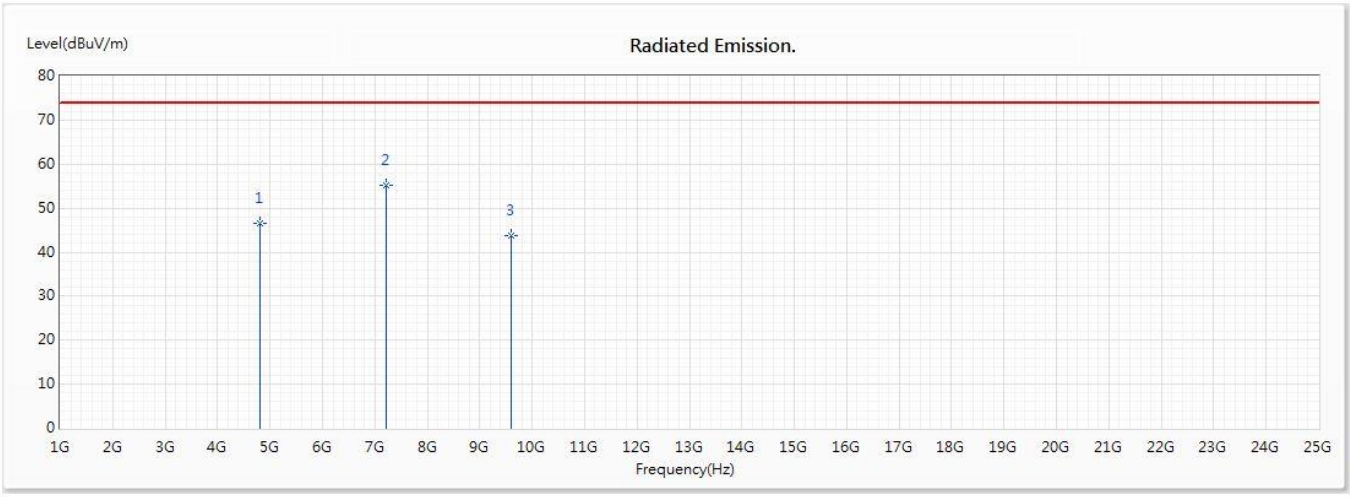
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	48.46	74.00	-25.54	59.35	-10.89	PK
* 2	7440	50.13	74.00	-23.87	64.75	-14.62	PK
3	9920	47.75	74.00	-26.25	61.98	-14.23	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK)(2402MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	46.42	74.00	-27.58	58.57	-12.15	PK
* 2	7206	55.30	74.00	-18.70	68.44	-13.14	PK
3	9608	43.81	74.00	-30.19	57.23	-13.42	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

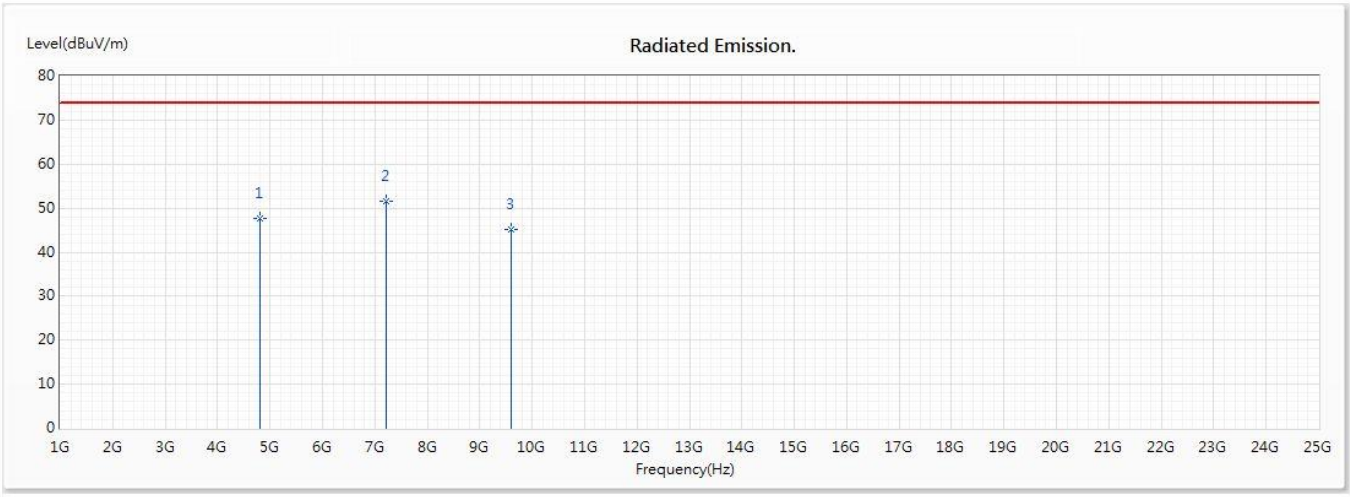
No.	**Frequency (MHz)**	**Peak Measurement (dBµV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBµV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7206	55.3	-24.954	30.346	-23.654	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK)(2402MHz)

Vertical



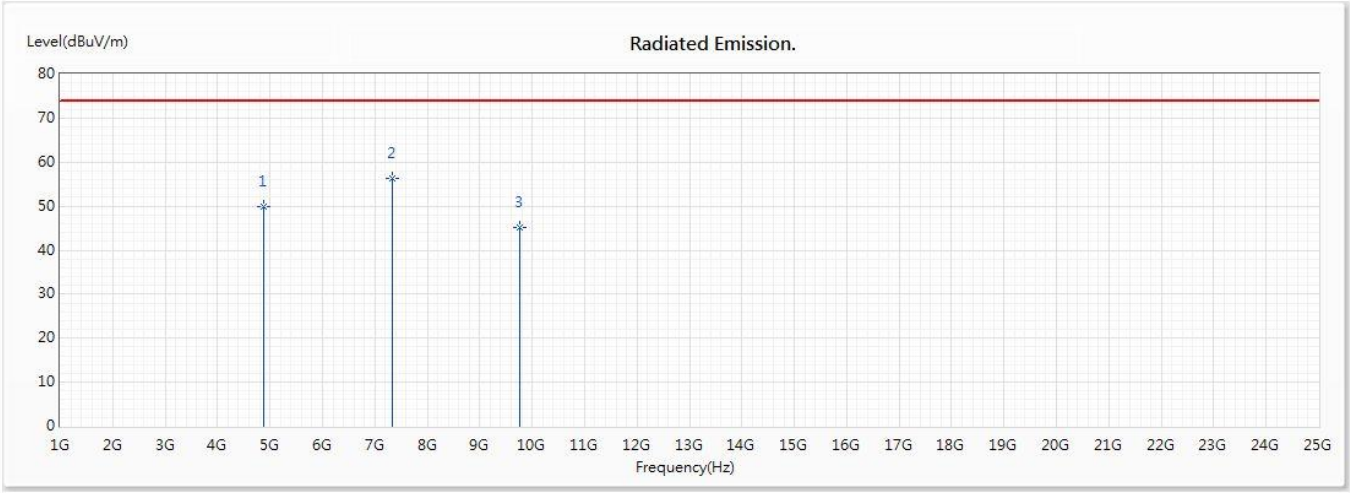
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4804	47.71	74.00	-26.29	59.86	-12.15	PK
* 2	7206	51.70	74.00	-22.30	64.84	-13.14	PK
3	9608	45.23	74.00	-28.77	58.65	-13.42	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2441MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	49.94	74.00	-24.06	61.53	-11.59	PK
* 2	7323	56.43	74.00	-17.57	70.00	-13.57	PK
3	9764	45.07	74.00	-28.93	57.59	-12.52	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

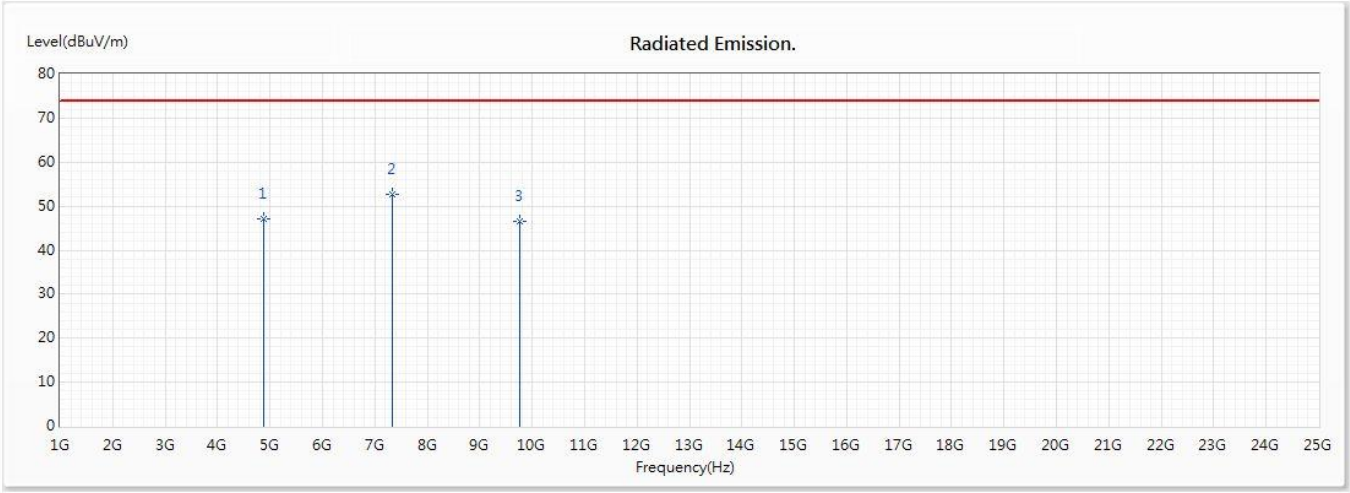
No.	**Frequency (MHz)**	**Peak Measurement (dBµV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBµV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
02 (Average)	7323	56.43	-24.954	31.476	-22.524	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2441MHz)

Vertical



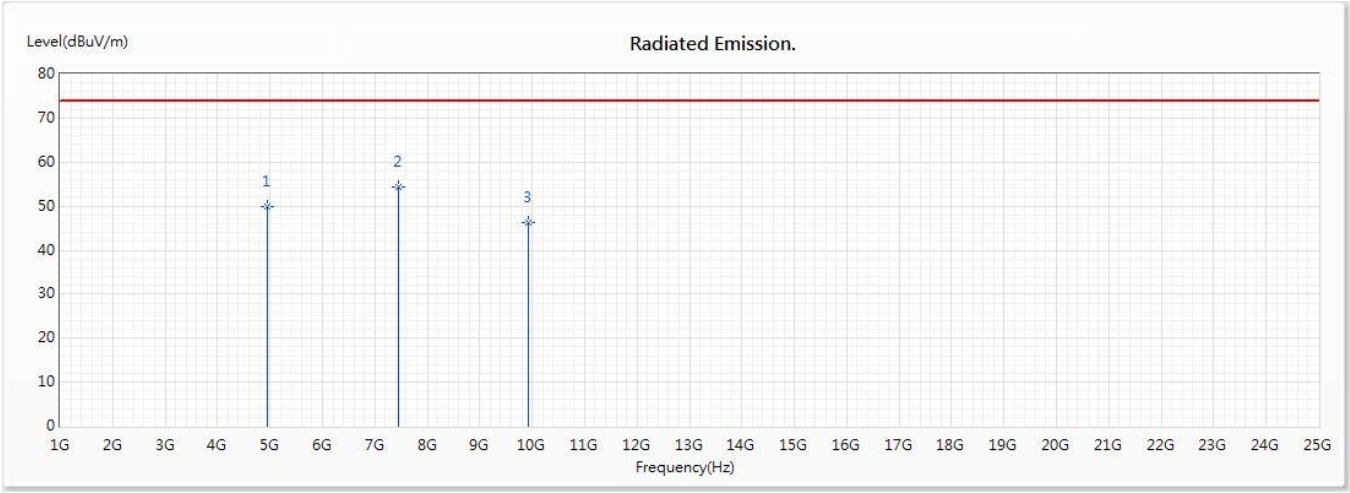
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4882	47.20	74.00	-26.80	58.79	-11.59	PK
* 2	7323	52.64	74.00	-21.36	66.21	-13.57	PK
3	9764	46.67	74.00	-27.33	59.19	-12.52	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2480MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	50.01	74.00	-23.99	60.90	-10.89	PK
* 2	7440	54.37	74.00	-19.63	68.99	-14.62	PK
3	9920	46.38	74.00	-27.62	60.61	-14.23	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

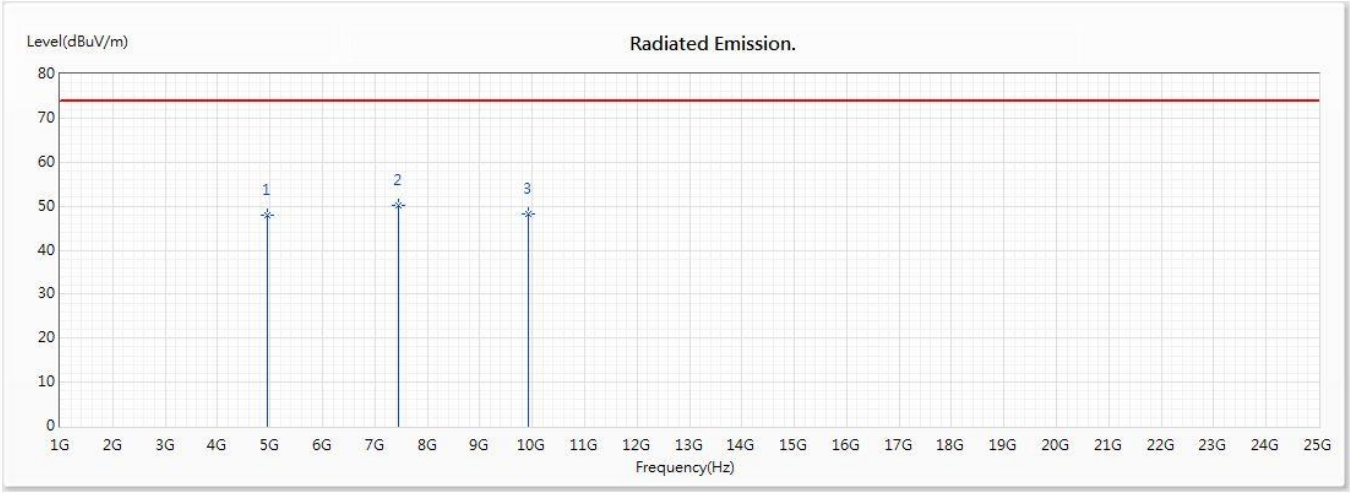
No.	**Frequency (MHz)**	**Peak Measurement (dBµV/m)**	**Duty Cycle Factor (dB)**	**Measurement (dBµV/m)**	**Margin (dB)**	**Limit (dBuV/m)**
2 (Average)	7440	54.37	-24.954	29.416	-24.584	54.000

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor
2. The Duty Cycle is refer to section 11.

Product : Bluetooth Headset
Test Item : Harmonic Radiated Emission
Test date : 2019/11/14
Test Mode : Mode 3: Transmit - 3Mbps (8DPSK) (2480MHz)

Vertical



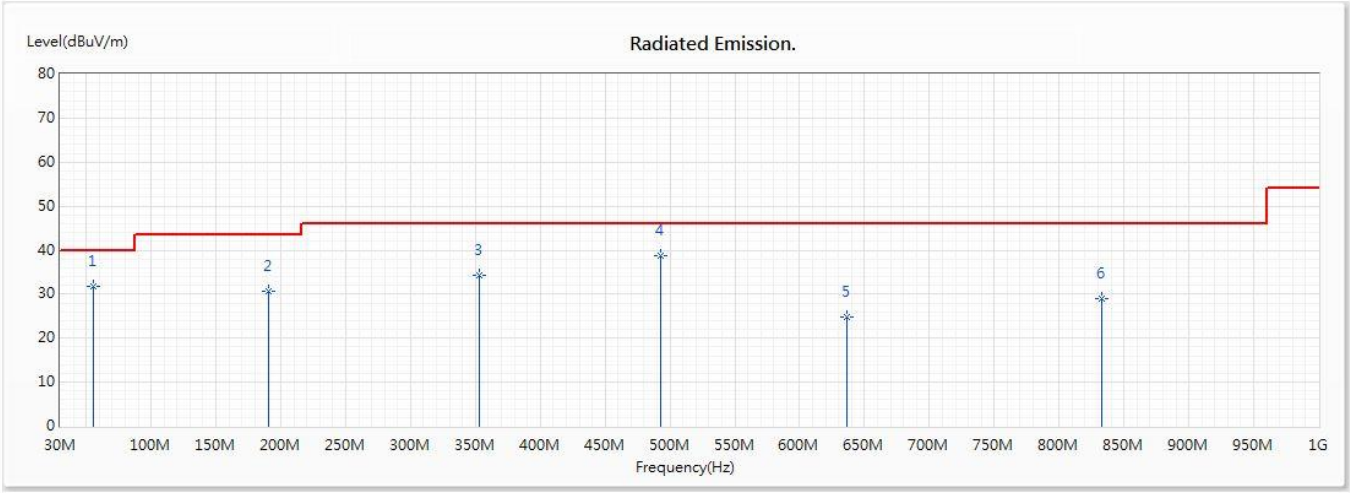
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	4960	47.90	74.00	-26.10	58.79	-10.89	PK
* 2	7440	50.06	74.00	-23.94	64.68	-14.62	PK
3	9920	48.29	74.00	-25.71	62.52	-14.23	PK

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. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
Test Item : General Radiated Emission
Test date : 2019/11/08
Test Mode : Mode 1: Transmit - 1Mbps (GFSK) (2441MHz)(stereo headset with adjustable arm)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	55.304	31.81	40.00	-8.19	49.52	-17.71	QP
2	190.261	30.75	43.50	-12.75	49.48	-18.73	QP
3	353.333	34.18	46.00	-11.82	47.31	-13.13	QP
* 4	492.507	38.70	46.00	-7.30	50.04	-11.34	QP
5	635.899	24.85	46.00	-21.15	33.53	-8.68	QP
6	832.71	28.98	46.00	-17.02	37.61	-8.63	QP

Note:

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