

FCC Test Report

Product Name	Bluetooth Headset
Model No.	OTE140L (left earbud), OTE140R (right earbud)
FCC ID.	BCE-OTE140

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

Date of Receipt	May. 06, 2021
Issued Date	Aug. 06, 2021
Report No.	2150110R-E3032110108-A
Report Version	V1.0



The test results relate only to the samples tested.

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

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

Issued Date: Aug. 06, 2021

Report No.: 2150110R-E3032110108-A



Product Name	Bluetooth Headset
Applicant	GN Audio A/S
Address	Lautrupbjerg 7, 2750 Ballerup, Denmark
Manufacturer	GN Audio A/S
Model No.	OTE140L (left earbud), OTE140R (right earbud)
FCC ID.	BCE-OTE140
EUT Rated Voltage	DC 3.7V by battery
EUT Test Voltage	DC 5V by USB
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 : *April Chen*
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Approved By : *Jack Hsu*
(Senior Engineer / Jack Hsu)

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Revision History

Report No.	Version	Description	Issued Date
2150110R-E3032110108-A	V1.0	Initial issue of report.	Aug. 06, 2021

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Bluetooth Headset
Trade Name	Jabra
Model No.	OTE140L (left earbud), OTE140R (right earbud)
FCC ID.	BCE-OTE140
Frequency Range	2402 – 2480MHz
Channel Number	V4.0: 40CH
Type of Modulation	GFSK
Antenna Type	Monopole Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	GN Audio A/S	50-09588/9	Monopole Antenna	-2.99dBi for 2.4 GHz
2	GN Audio A/S	50-09673/4	Monopole Antenna	-4.13 dBi for 2.4 GHz

Note: The antenna of EUT is conforming to FCC 15.203.

Center Frequency of Each Channel: (For V4.0)

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

Note:

1. The EUT is an Bluetooth Headset with built-in Bluetooth V4.0 、 V2.1+EDR transceiver, this report for Bluetooth V4.0.
2. These tests were conducted on a sample for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. OTE140R/L earbuds have a PRO variant and an Active variant, the two variants are identical except the PRO variant contains an additional VPU(voice protection unit) microphone for better noise cancelation and is not mounted on an Active variant.
4. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.

Test Mode	Mode 1: Transmit - 1Mbps-BLE Mode 2: Charge Mode
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1.2. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	DELL	Latitude 5580	GDZN7H2	Non-Shielded, 0.8m
2 Test Fixture	GN Audio A/S	Fixture	N/A	N/A

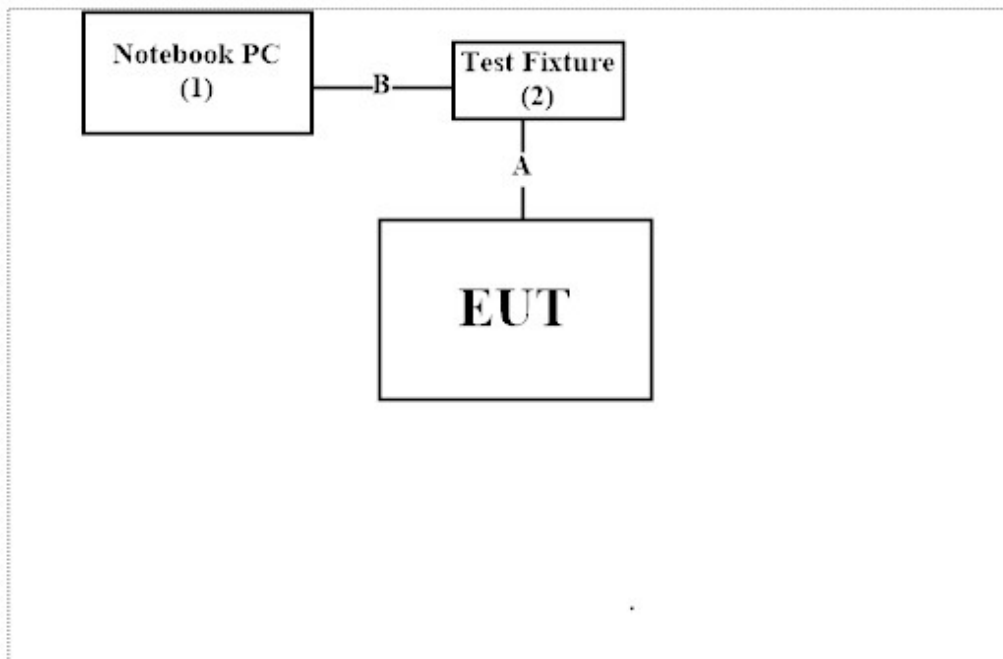
Signal Cable Type	Manufacturer	Model No.	Signal cable Description
A Signal Cable	GN Audio A/S	Test Cable	Non-shielded, 0.05m, With Core*1
B USB Cable	Cing Kang	UB-272	Shielded, 0.8m, With Core*1

For Charge Mode

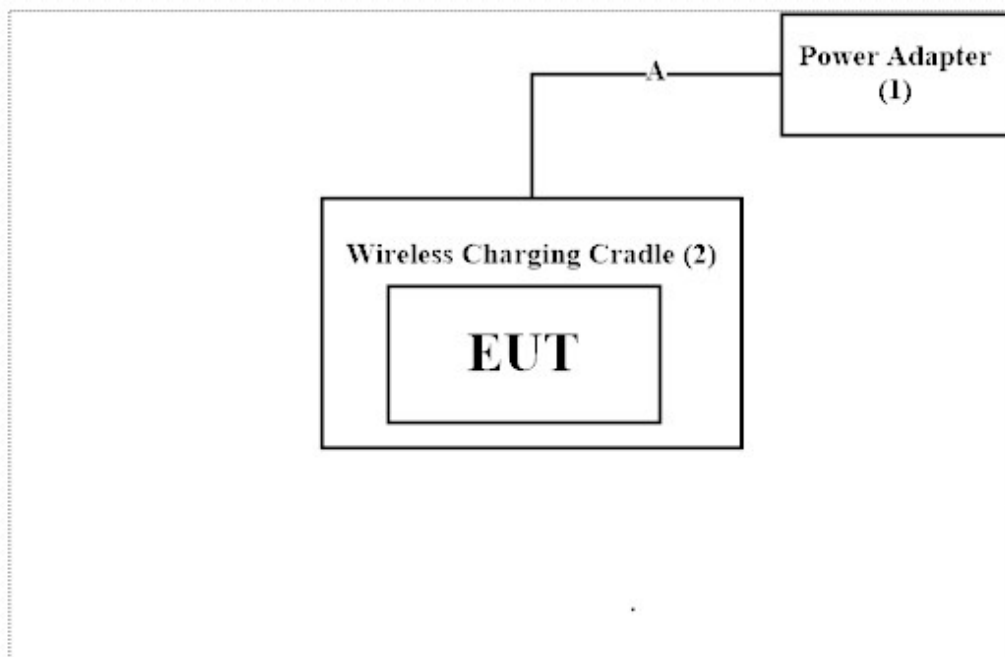
Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Power Adapter	HTC	TC U250	N/A	N/A
2 Wireless Charging Cradle	GN Audio A/S	CPB140	N/A	N/A

Signal Cable Type	Manufacturer	Model No.	Signal cable Description
A USB Cable	HTC	TC U250	Shielded, 1m

1.3. Configuration of Tested System



For Charge Mode



1.4. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.3.
- (2) Execute software “CSR Blue Test 3Version 3.3.6.926” 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.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	26.2 °C
	Humidity (%RH)	10~90 %	86.7 %
Radiated Emission	Temperature (°C)	10~40 °C	24.9 °C
	Humidity (%RH)	10~90 %	56.1 %
Conductive	Temperature (°C)	10~40 °C	22.0 °C
	Humidity (%RH)	10~90 %	55.0 %

USA : FCC Registration Number: TW0033

Canada : IC Registration Number: 26930

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City
Phone number : 886-2-2602-7968
Fax number : 866-2-2602-3286
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.6. List of Test Equipment

For Conduction measurements /SH1

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
X	EMI Test Receiver	R&S	ESR7	101601	2021.01.04	2022.01.03
X	Two-Line V-Network	R&S	ENV216	101306	2021.04.08	2022.04.07
X	Two-Line V-Network	R&S	ENV216	101307	2021.05.04	2022.05.03
X	Coaxial Cable	DEKRA	RG400_BNC	RF001	2021.05.24	2022.05.23

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 Testing System V2.0

For Conducted measurements /SH2

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
X	Spectrum Analyzer	R&S	FSV30	103466	2020.12.28	2021.12.27
X	Peak Power Analyzer	KEYSIGHT	8990B	MY51000410	2020.07.01	2021.06.30
X	Wideband Power Sensor	KEYSIGHT	N1923A	MY56080003	2020.07.01	2021.06.30
X	Wideband Power Sensor	KEYSIGHT	N1923A	MY56080004	2020.07.01	2021.06.30

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 System V9.0.5.

For Radiated measurements /966-3

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
X	Loop Antenna	AMETEK	HLA6121	56736	2021.04.14	2022.04.13
X	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-678	2020.09.04	2021.09.03
X	Horn Antenna	ETS-Lindgren	3117	00201259	2020.10.23	2021.10.22
X	Horn Antenna	Com-Power	AH-840	101087	2021.06.16	2022.06.15
X	Pre-Amplifier	EMCI	EMC001330	980316	2021.06.22	2022.06.21
X	Pre-Amplifier	EMCI	EMC051835SE	980312	2021.02.24	2022.02.23
X	Pre-Amplifier	EMCI	EMC05820SE	980361	2020.12.21	2021.12.20
X	Pre-Amplifier	EMCI	EMC184045SE	980314	2021.06.24	2022.06.23
X	Filter	MICRO TRONICS	BRM50702	G251	2020.09.17	2021.09.16
	Filter	MICRO TRONICS	BRM50716	G188	2020.09.17	2021.09.16
X	EMI Test Receiver	R&S	ESR	102793	2020.12.17	2021.12.16
X	Spectrum Analyzer	R&S	FSV3044	101113	2021.02.03	2022.02.02
X	Coaxial Cable	SUHNER	SUCOFLEX 106	RF002	2021.03.03	2022.03.02
X	Mircoflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3381/2	2021.06.25	2022.06.24

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 : DEKRA Testing System V2.0

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

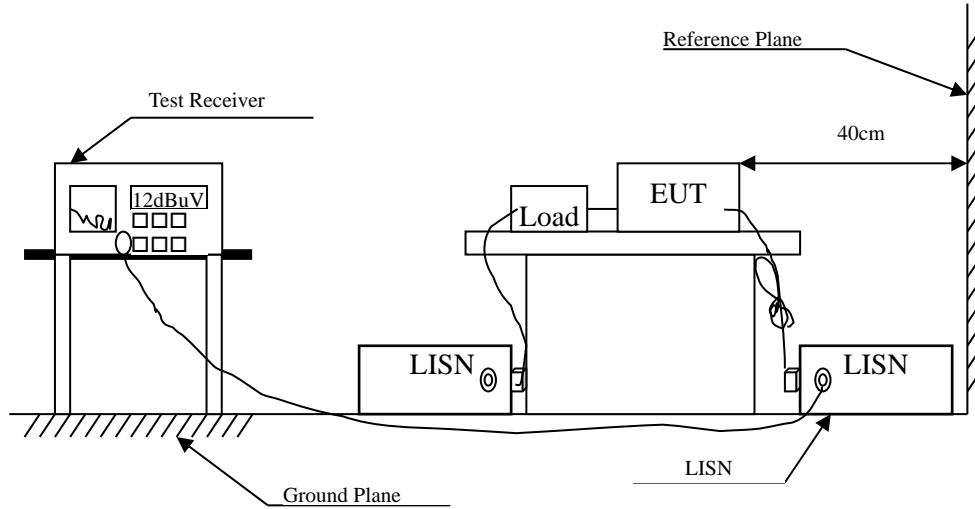
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty	
Conducted Emission	±3.42 dB	
Peak Power Output	±0.91 dB	
Radiated Emission	Under 1GHz ±4.06 dB	Above 1GHz ±3.73 dB
RF Antenna Conducted Test	±2.53 dB	
Band Edge	Under 1GHz ±4.06 dB	Above 1GHz ±3.73 dB
6dB Bandwidth	±682.83 Hz	
Power Density	±2.53 dB	
Duty Cycle	±2.31 ms	

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) 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.)

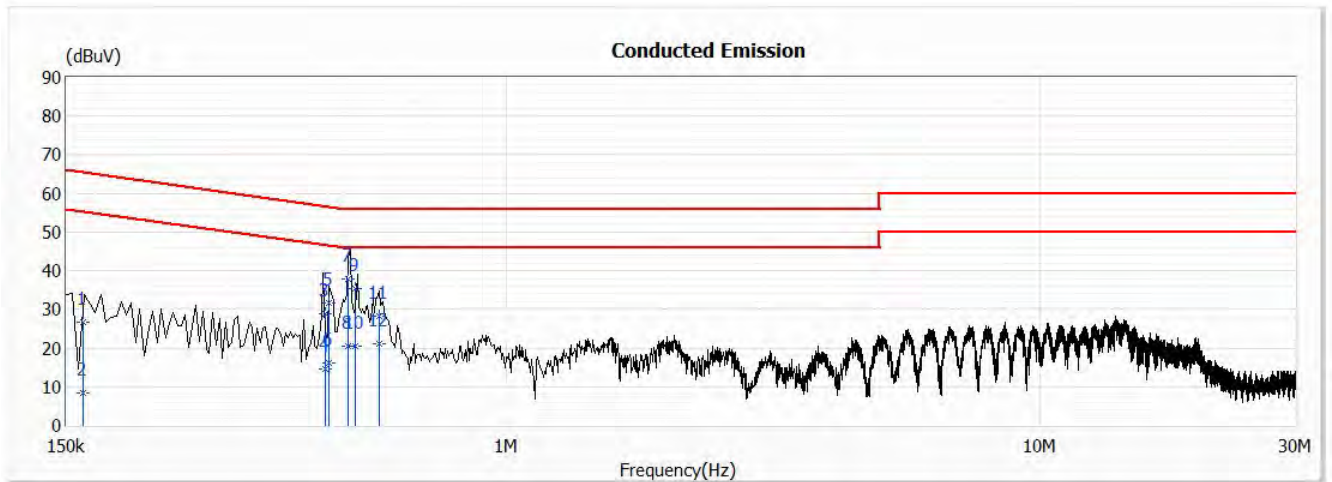
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

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

The EUT was setup to ANSI C63.4, 2014; tested to DTS test procedure of FCC KDB-558074 for compliance to FCC 47CFR Subpart C requirements.

2.4. Test Result of Conducted Emission

Product : Bluetooth Headset
 Test Item : Conducted Emission Test
 Power Line : L 1
 Test Mode : Mode 2: Charge Mode
 Test Date : 2021/08/06

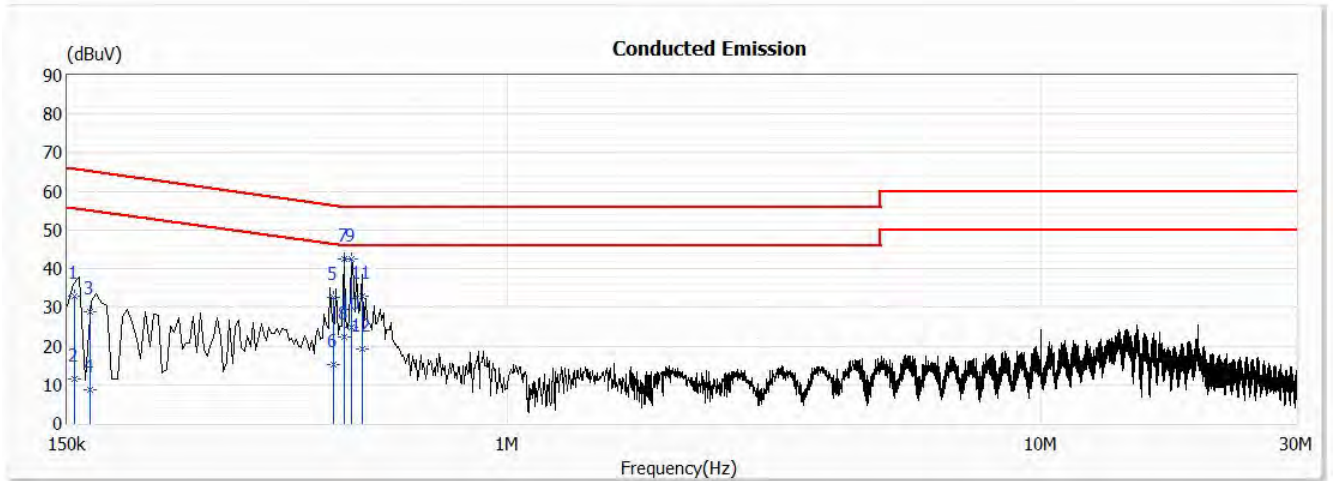


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	26.72	65.38	-38.66	17.06	9.66	QP
2	0.162	8.47	55.38	-46.91	-1.19	9.66	AV
3	0.457	28.76	56.74	-27.98	19.10	9.66	QP
4	0.457	14.61	46.74	-32.13	4.95	9.66	AV
5	0.465	31.61	56.60	-24.99	21.95	9.66	QP
6	0.465	16.10	46.60	-30.50	6.44	9.66	AV
*7	0.506	37.91	56.00	-18.09	28.25	9.66	QP
8	0.506	20.36	46.00	-25.64	10.70	9.66	AV
9	0.522	35.40	56.00	-20.60	25.74	9.66	QP
10	0.522	20.36	46.00	-25.64	10.70	9.66	AV
11	0.577	28.17	56.00	-27.83	18.51	9.66	QP
12	0.577	21.21	46.00	-24.79	11.55	9.66	AV

Note:

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

Product : Bluetooth Headset
 Test Item : Conducted Emission Test
 Power Line : N
 Test Mode : Mode 2: Charge Mode
 Test Date : 2021/08/06



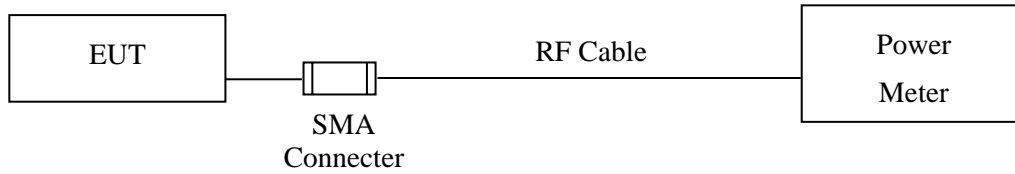
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.155	32.89	65.75	-32.86	23.22	9.67	QP
2	0.155	11.55	55.75	-44.20	1.88	9.67	AV
3	0.166	28.82	65.17	-36.35	19.15	9.67	QP
4	0.166	8.81	55.17	-46.36	-0.86	9.67	AV
5	0.473	32.56	56.45	-23.89	22.89	9.67	QP
6	0.473	15.32	46.45	-31.13	5.65	9.67	AV
7	0.494	42.53	56.09	-13.56	32.86	9.67	QP
8	0.494	22.48	46.09	-23.61	12.81	9.67	AV
*9	0.512	42.62	56.00	-13.38	32.95	9.67	QP
10	0.512	24.96	46.00	-21.04	15.29	9.67	AV
11	0.535	32.99	56.00	-23.01	23.32	9.67	QP
12	0.535	19.19	46.00	-26.81	9.52	9.67	AV

Note:

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

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 tested according to C63.10:2013 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using C63.10:2013 Section 11.9.1.3 PKPM1 Peak power meter method.

3.4. Test Result of Peak Power Output

Product : Bluetooth Headset
Test Item : Peak Power Output
Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140L)
Test Date : 2021/05/18

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402	7.73	1 Watt= 30 dBm	Pass
Channel 19	2440	7.51	1 Watt= 30 dBm	Pass
Channel 39	2480	7.27	1 Watt= 30 dBm	Pass

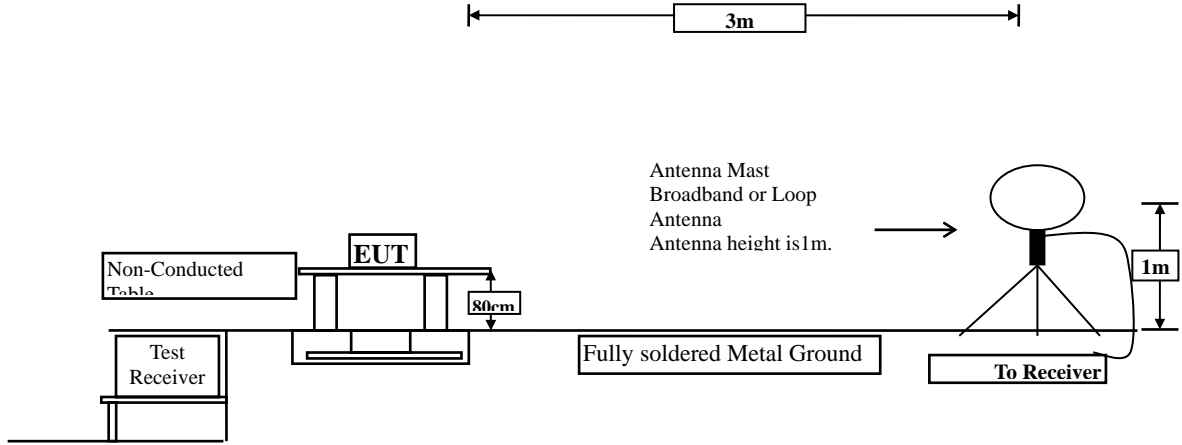
Product : Bluetooth Headset
Test Item : Peak Power Output
Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140R)
Test Date : 2021/05/18

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
Channel 00	2402	9.51	1 Watt= 30 dBm	Pass
Channel 19	2440	9.52	1 Watt= 30 dBm	Pass
Channel 39	2480	9.42	1 Watt= 30 dBm	Pass

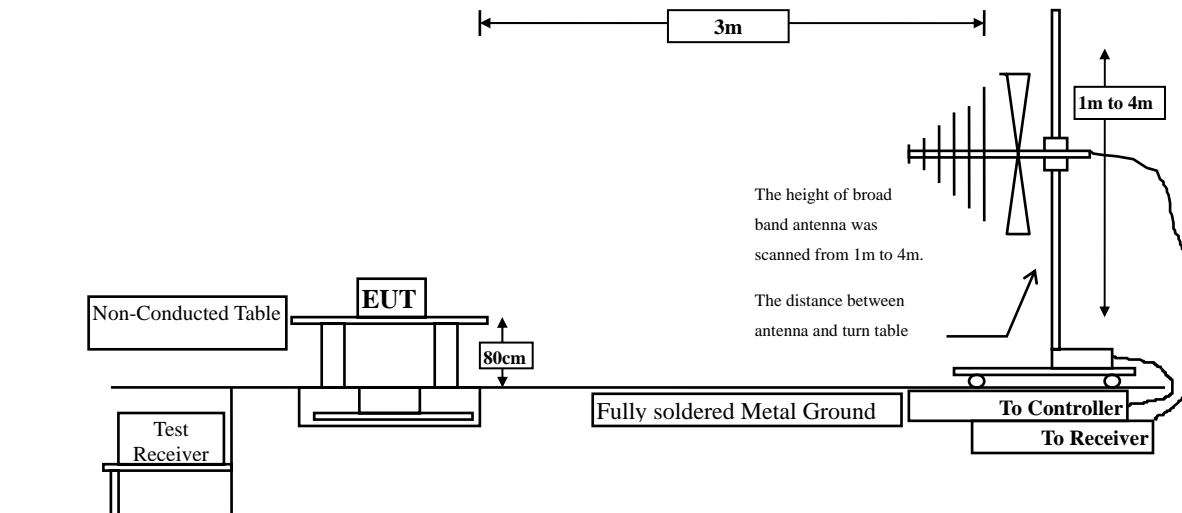
4. Radiated Emission

4.1. Test Setup

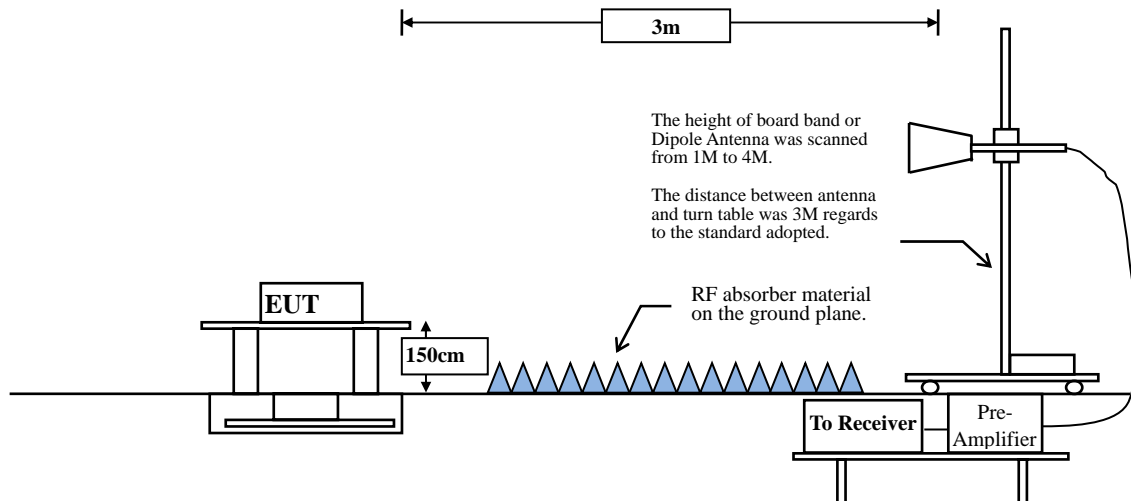
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission 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 (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 C63.10:2013 Section 11.12.1 for 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 measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq 98 \%$

$VBW \geq 1/T$, when duty cycle $< 98 \%$

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

OTE140L

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
BLE 1Mbps	85.33	2.1400	467	500

Note: Duty Cycle Refer to Section 9.

OTE140R

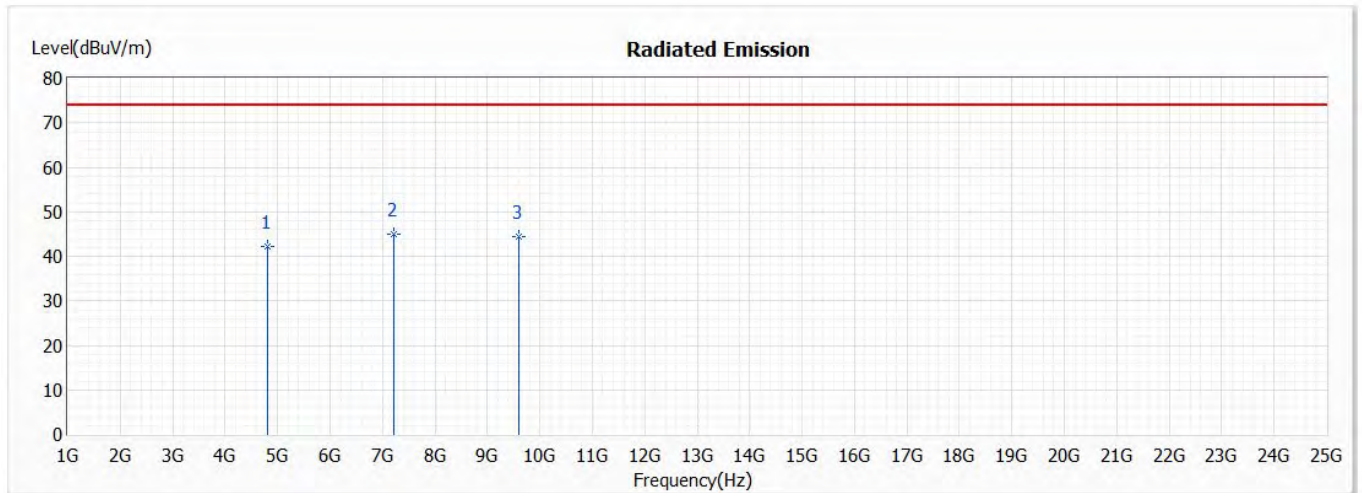
2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
BLE 1Mbps	85.30	2.1360	468	500

Note: Duty Cycle Refer to Section 9.

4.4. Test Result of Radiated Emission

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



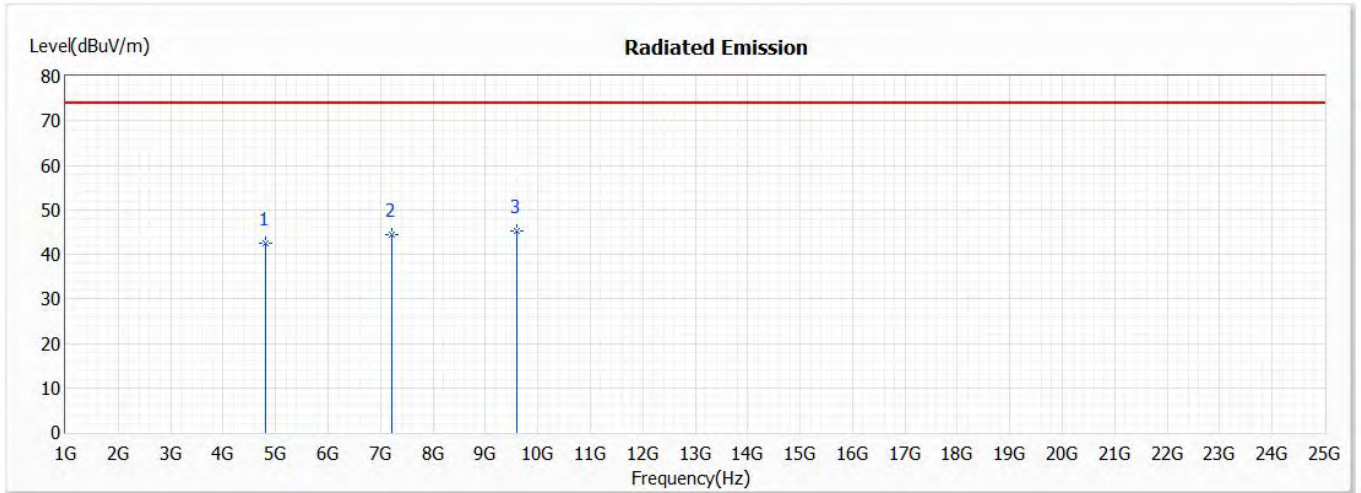
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	42.23	74.00	-31.77	41.74	0.49	PK
* 2	7206.000	45.05	74.00	-28.95	40.34	4.71	PK
3	9608.000	44.48	74.00	-29.52	37.63	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



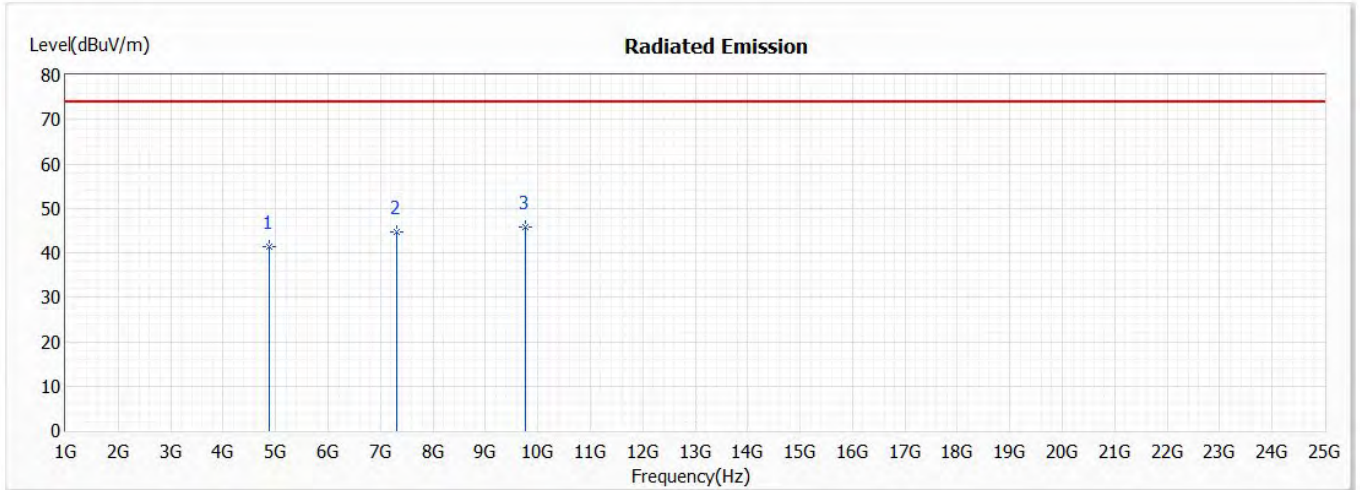
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	42.53	74.00	-31.47	42.04	0.49	PK
2	7206.000	44.55	74.00	-29.45	39.84	4.71	PK
* 3	9608.000	45.22	74.00	-28.78	38.37	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



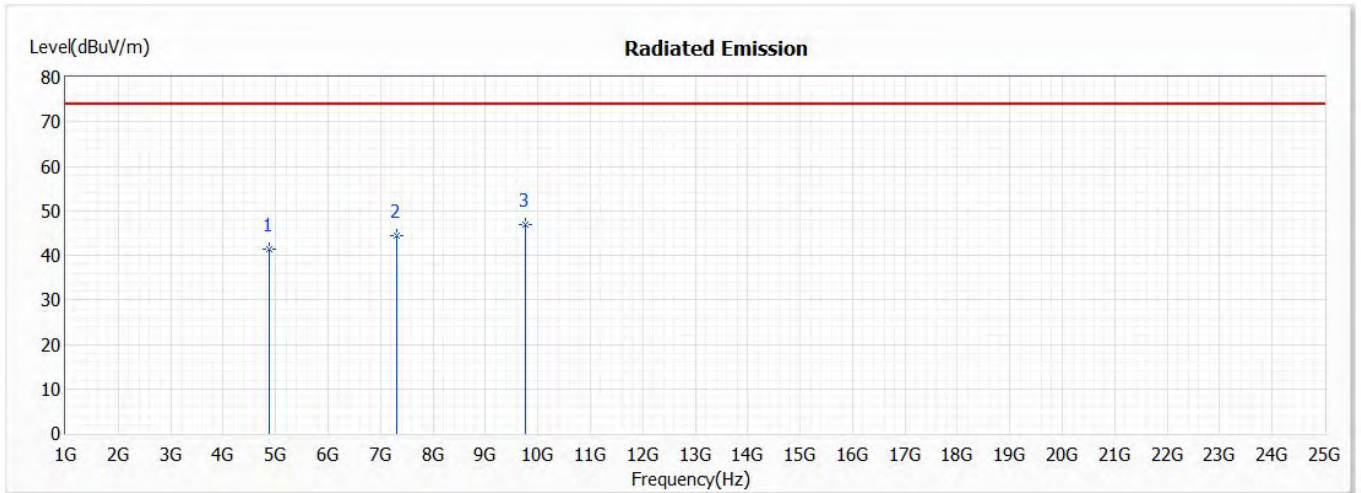
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	41.28	74.00	-32.72	40.68	0.60	PK
2	7320.000	44.63	74.00	-29.37	39.79	4.84	PK
* 3	9760.000	45.91	74.00	-28.09	38.69	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



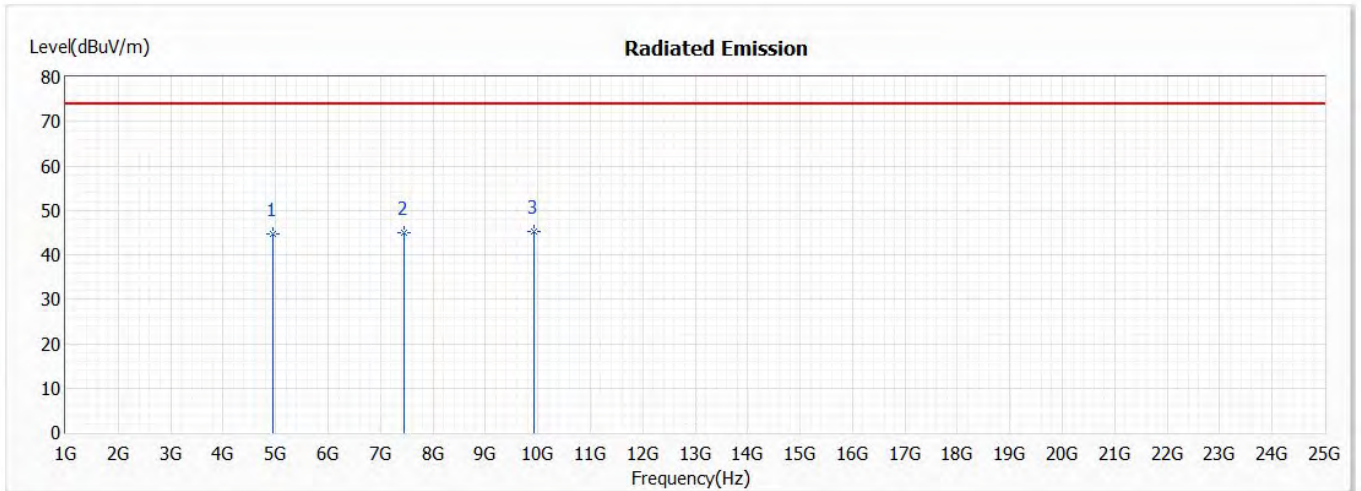
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	41.48	74.00	-32.52	40.88	0.60	PK
2	7320.000	44.41	74.00	-29.59	39.57	4.84	PK
* 3	9760.000	46.82	74.00	-27.18	39.60	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



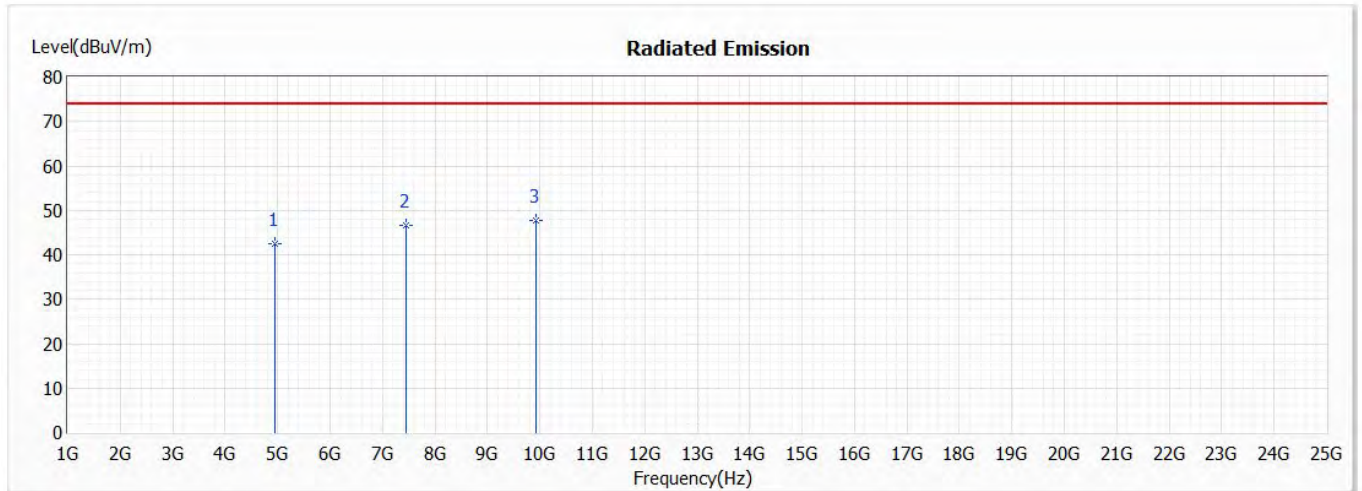
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.72	74.00	-29.28	44.02	0.70	PK
2	7440.000	44.95	74.00	-29.05	40.02	4.93	PK
* 3	9920.000	45.13	74.00	-28.87	37.73	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



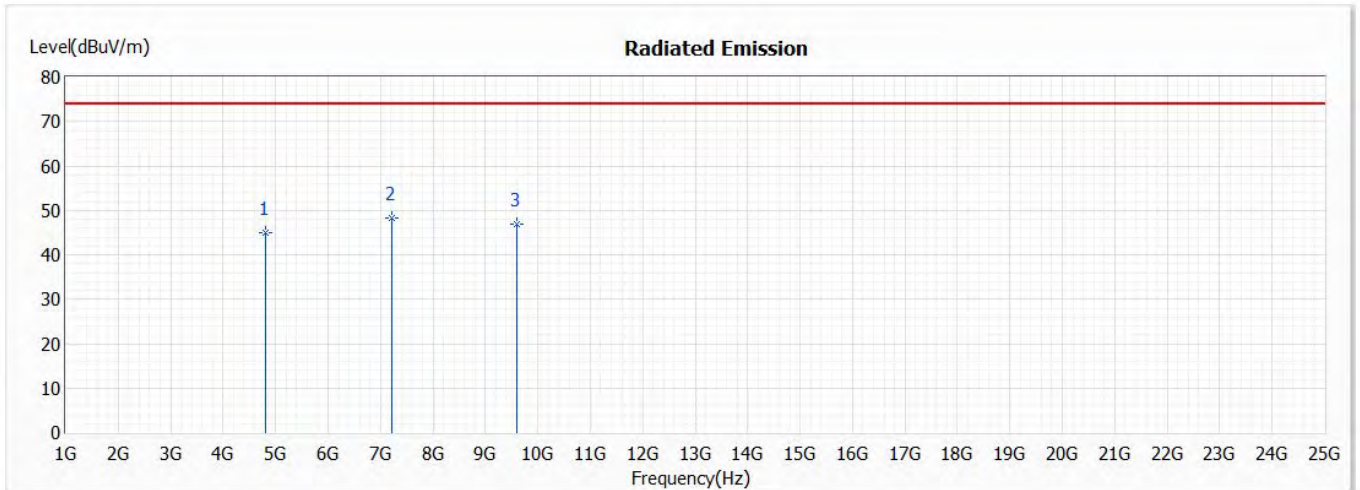
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	42.40	74.00	-31.60	41.70	0.70	PK
2	7440.000	46.68	74.00	-27.32	41.75	4.93	PK
* 3	9920.000	47.79	74.00	-26.21	40.39	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



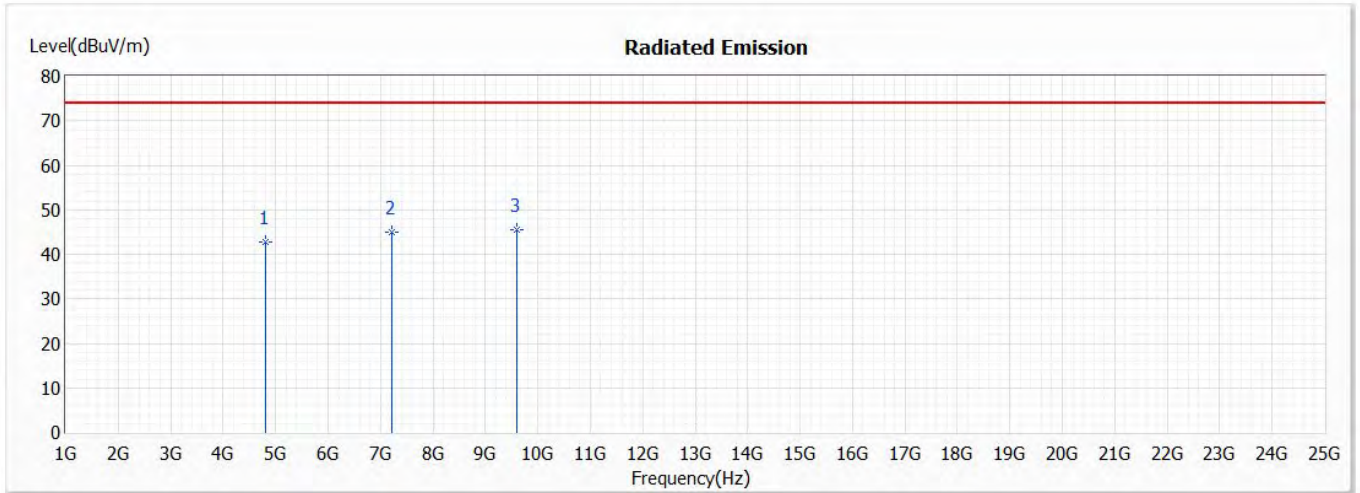
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	44.95	74.00	-29.05	44.46	0.49	PK
* 2	7206.000	48.18	74.00	-25.82	43.47	4.71	PK
3	9608.000	46.82	74.00	-27.18	39.97	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



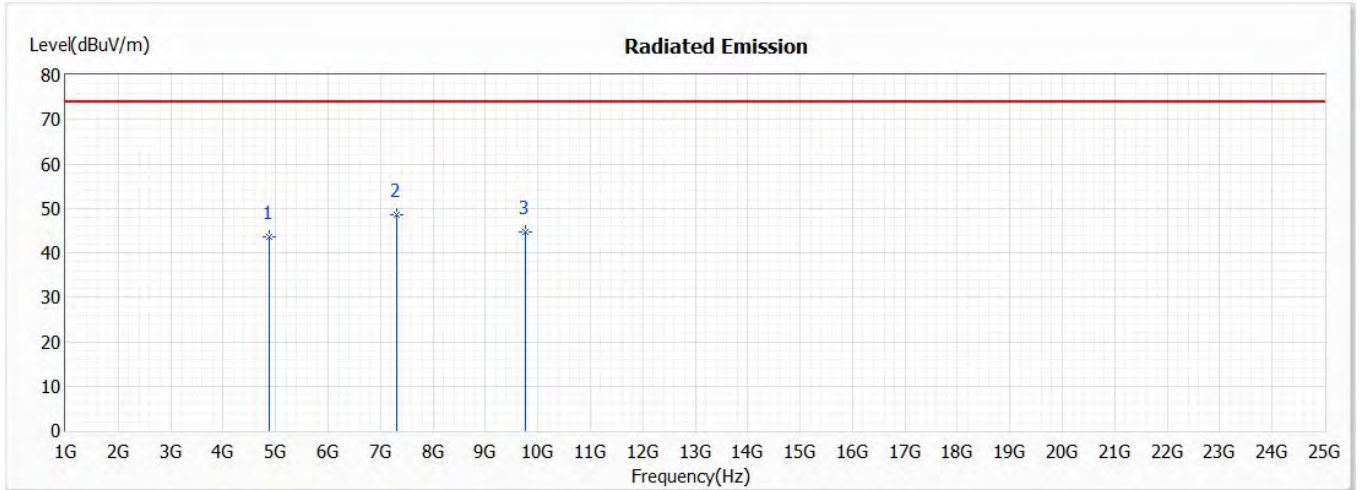
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	42.85	74.00	-31.15	42.36	0.49	PK
2	7206.000	44.92	74.00	-29.08	40.21	4.71	PK
* 3	9608.000	45.61	74.00	-28.39	38.76	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



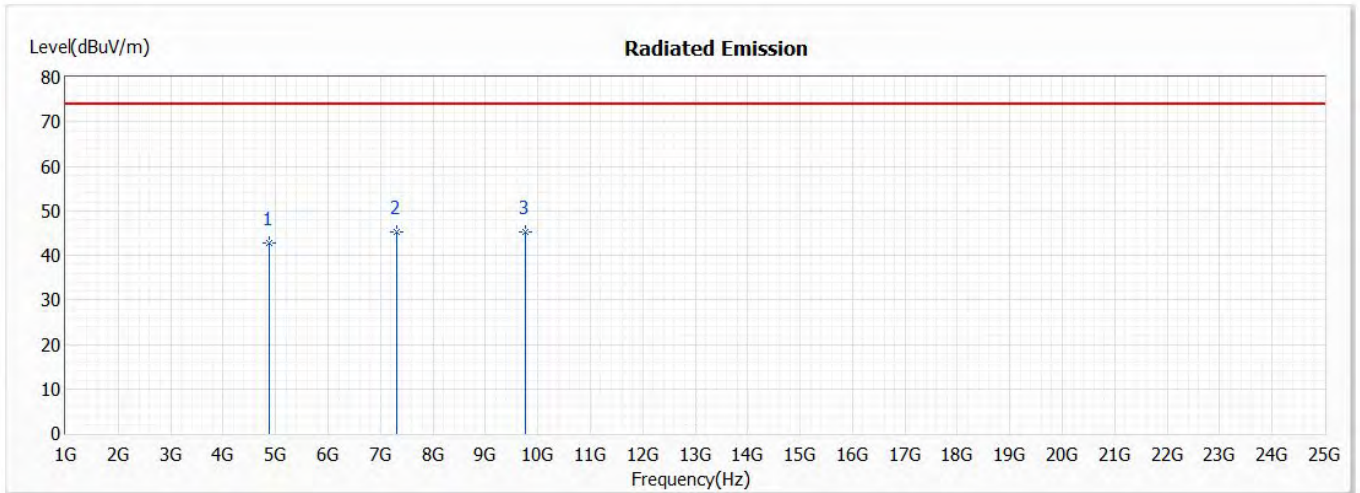
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	43.64	74.00	-30.36	43.04	0.60	PK
* 2	7320.000	48.60	74.00	-25.40	43.76	4.84	PK
3	9760.000	44.67	74.00	-29.33	37.45	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



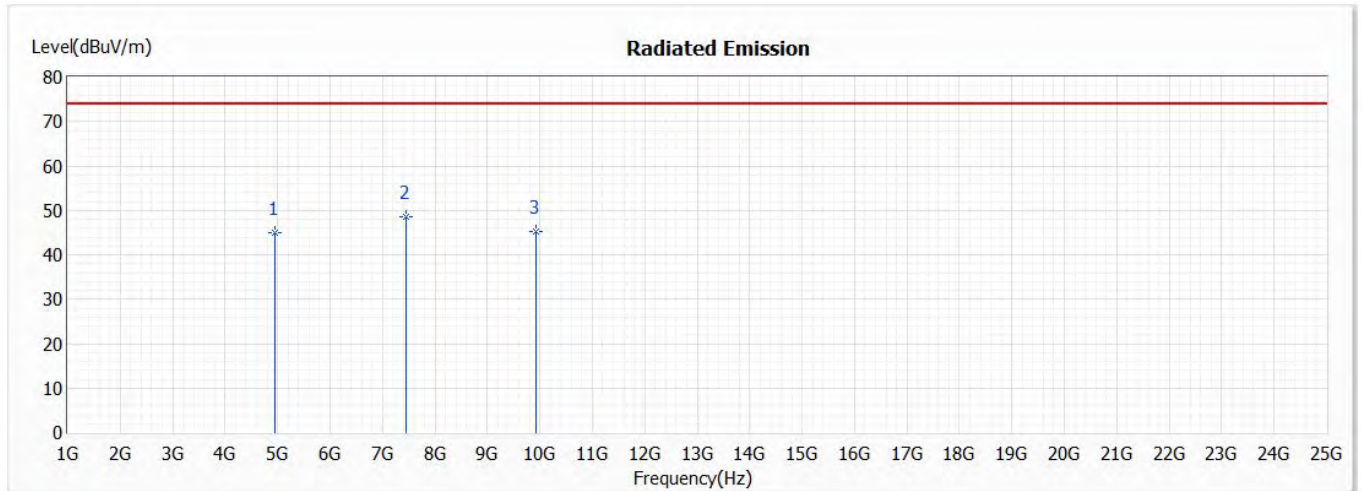
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	42.65	74.00	-31.35	42.05	0.60	PK
2	7320.000	45.12	74.00	-28.88	40.28	4.84	PK
* 3	9760.000	45.33	74.00	-28.67	38.11	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



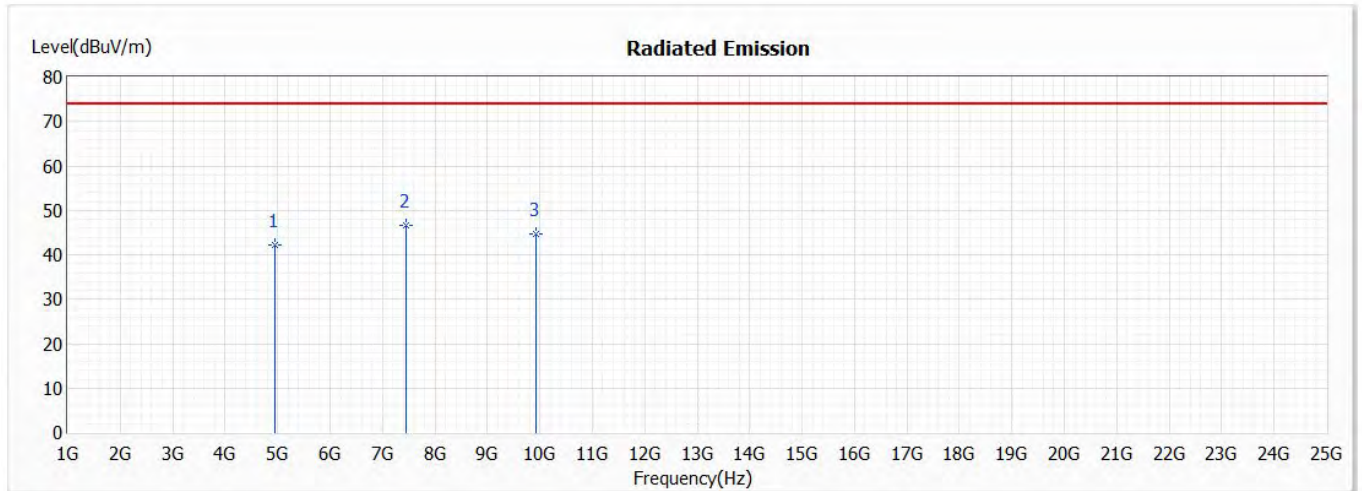
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.85	74.00	-29.15	44.15	0.70	PK
* 2	7440.000	48.68	74.00	-25.32	43.75	4.93	PK
3	9920.000	45.36	74.00	-28.64	37.96	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



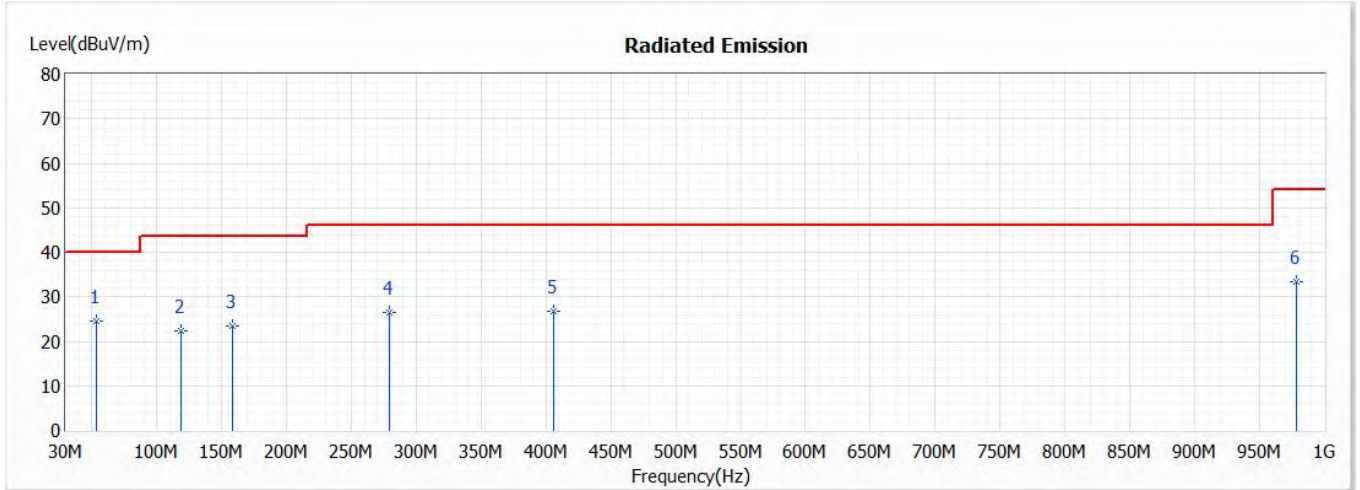
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	42.25	74.00	-31.75	41.55	0.70	PK
* 2	7440.000	46.51	74.00	-27.49	41.58	4.93	PK
3	9920.000	44.71	74.00	-29.29	37.31	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/27

Horizontal



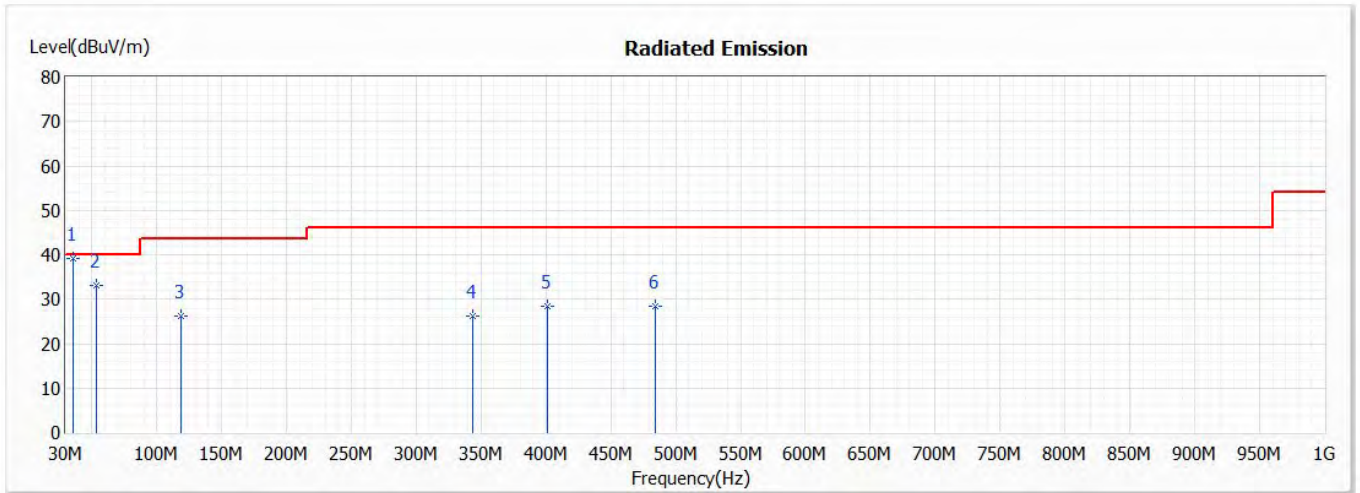
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	53.280	24.45	40.00	-15.55	35.05	-10.60	QP
2	119.240	22.42	43.50	-21.08	35.50	-13.08	QP
3	158.040	23.43	43.50	-20.07	33.85	-10.42	QP
4	279.290	26.47	46.00	-19.53	36.69	-10.22	QP
5	406.360	26.68	46.00	-19.32	33.68	-7.00	QP
6	978.660	33.31	54.00	-20.69	31.28	2.03	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/27

Vertical



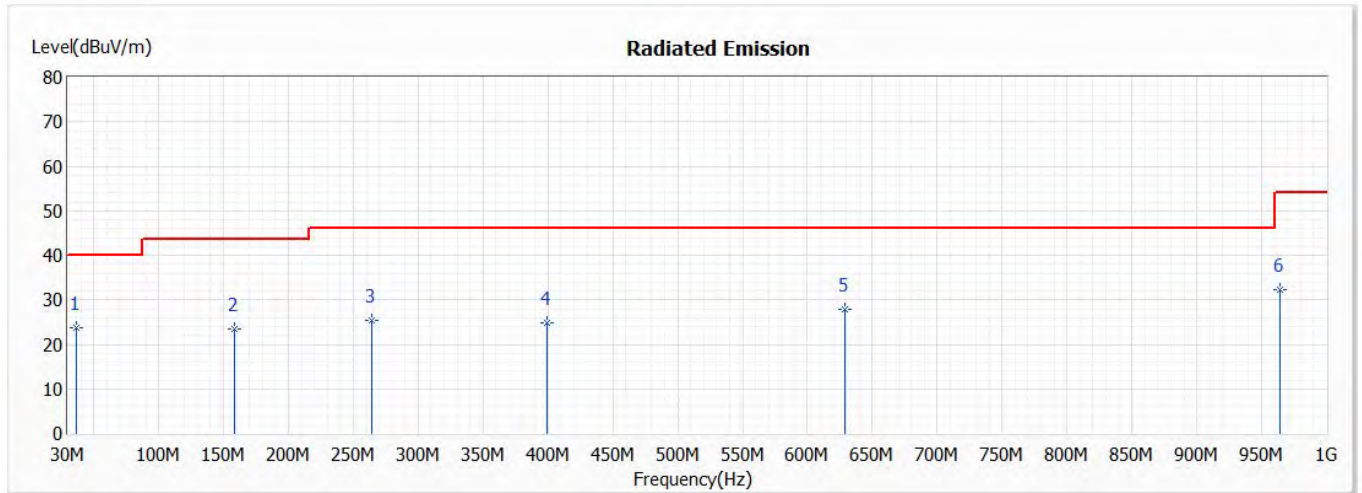
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	35.820	39.23	40.00	-0.77	50.64	-11.41	QP
2	53.280	32.97	40.00	-7.03	43.57	-10.60	QP
3	119.240	26.11	43.50	-17.39	39.19	-13.08	QP
4	343.310	26.24	46.00	-19.76	34.85	-8.61	QP
5	401.510	28.45	46.00	-17.55	35.62	-7.17	QP
6	483.960	28.31	46.00	-17.69	33.72	-5.41	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant -OTE140L)
 Test Date : 2021/06/17

Horizontal



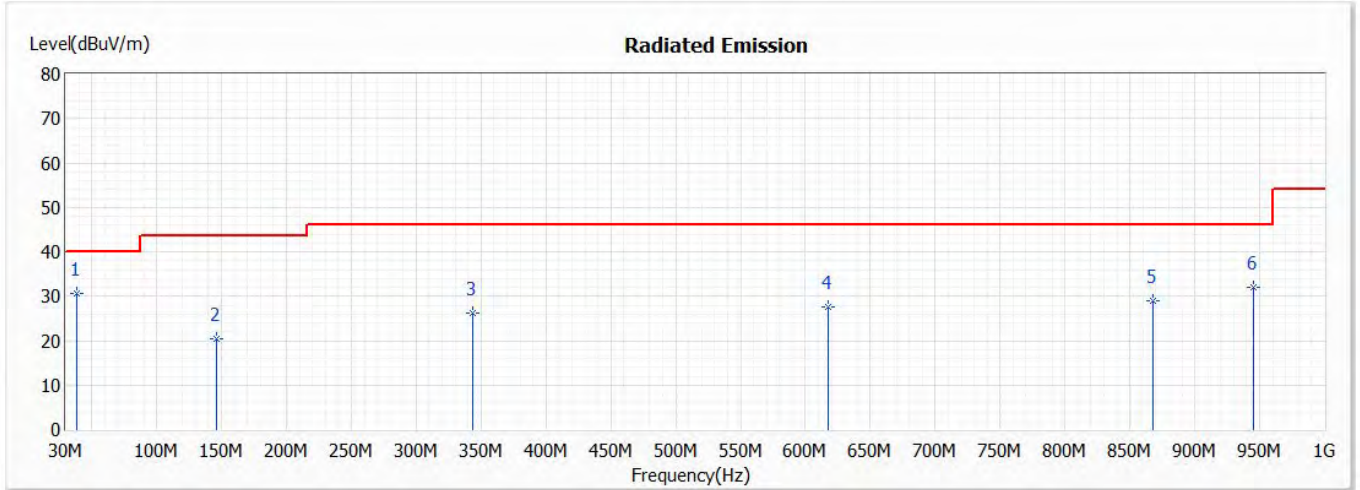
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	36.790	23.61	40.00	-16.39	34.98	-11.37	QP
2	158.040	23.43	43.50	-20.07	33.85	-10.42	QP
3	263.770	25.33	46.00	-20.67	36.20	-10.87	QP
4	399.570	24.91	46.00	-21.09	32.16	-7.25	QP
5	628.490	27.91	46.00	-18.09	30.57	-2.66	QP
6	964.110	32.18	54.00	-21.82	30.10	2.08	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant -OTE140L)
 Test Date : 2021/06/17

Vertical



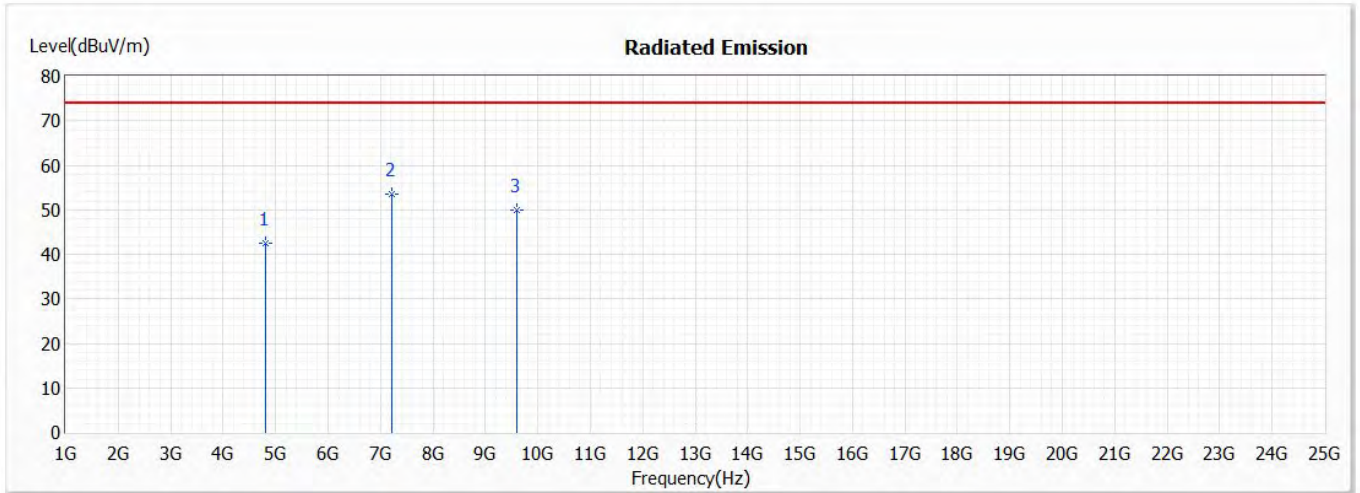
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	38.730	30.54	40.00	-9.46	41.63	-11.09	QP
2	146.400	20.49	43.50	-23.01	30.99	-10.50	QP
3	343.310	26.24	46.00	-19.76	34.85	-8.61	QP
4	617.820	27.48	46.00	-18.52	30.17	-2.69	QP
5	868.080	28.96	46.00	-17.04	28.44	0.52	QP
6	945.680	32.00	46.00	-14.00	30.13	1.87	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



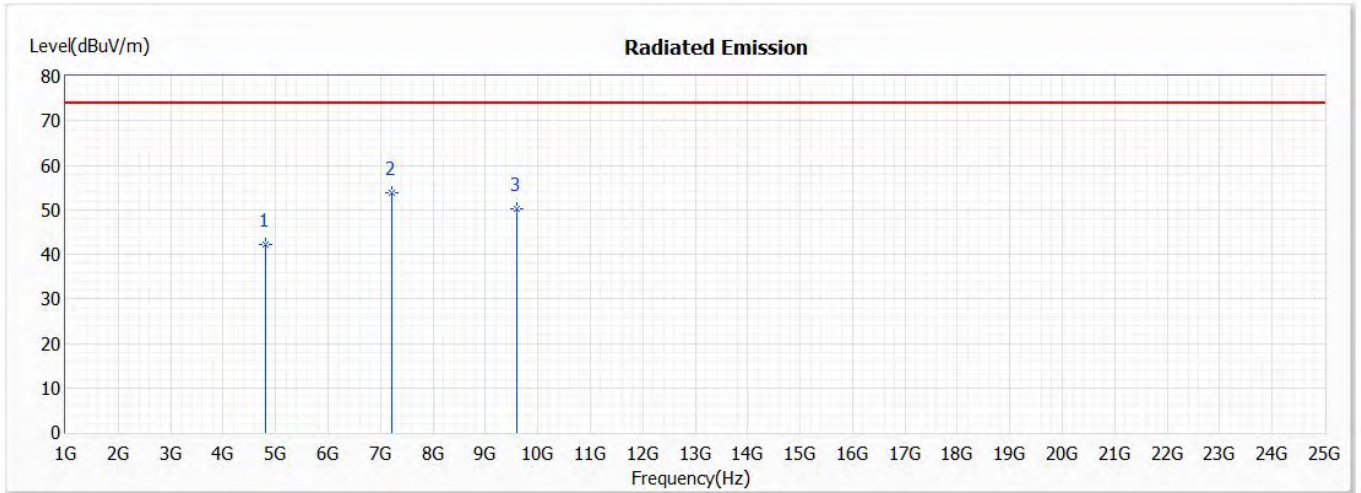
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	42.48	74.00	-31.52	41.99	0.49	PK
* 2	7206.000	53.60	74.00	-20.40	48.89	4.71	PK
3	9608.000	49.98	74.00	-24.02	43.13	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



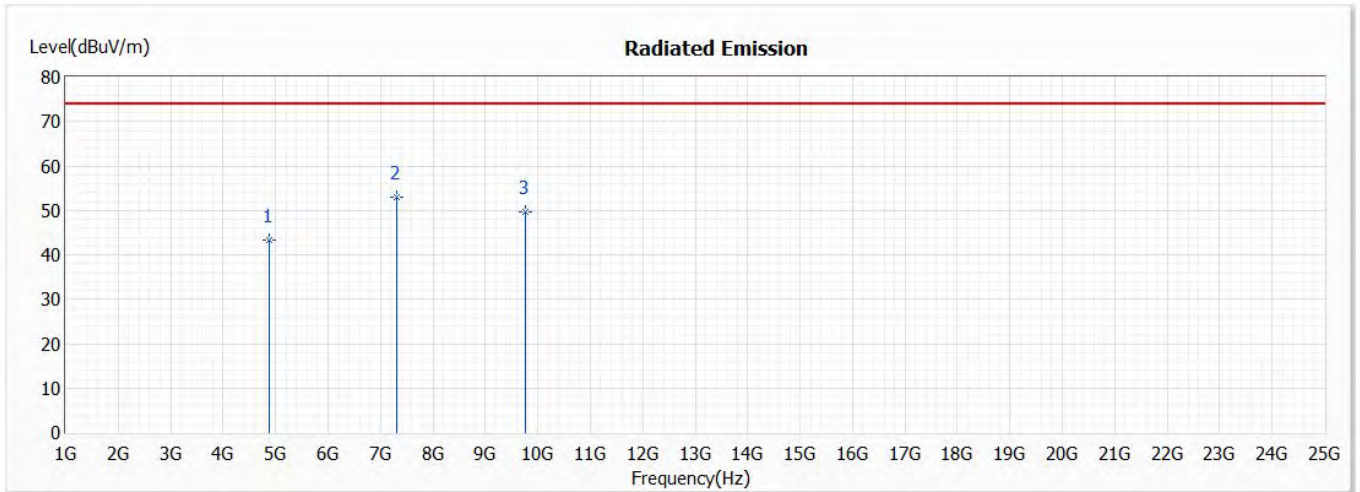
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	42.11	74.00	-31.89	41.62	0.49	PK
* 2	7206.000	53.90	74.00	-20.10	49.19	4.71	PK
3	9608.000	50.23	74.00	-23.77	43.38	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



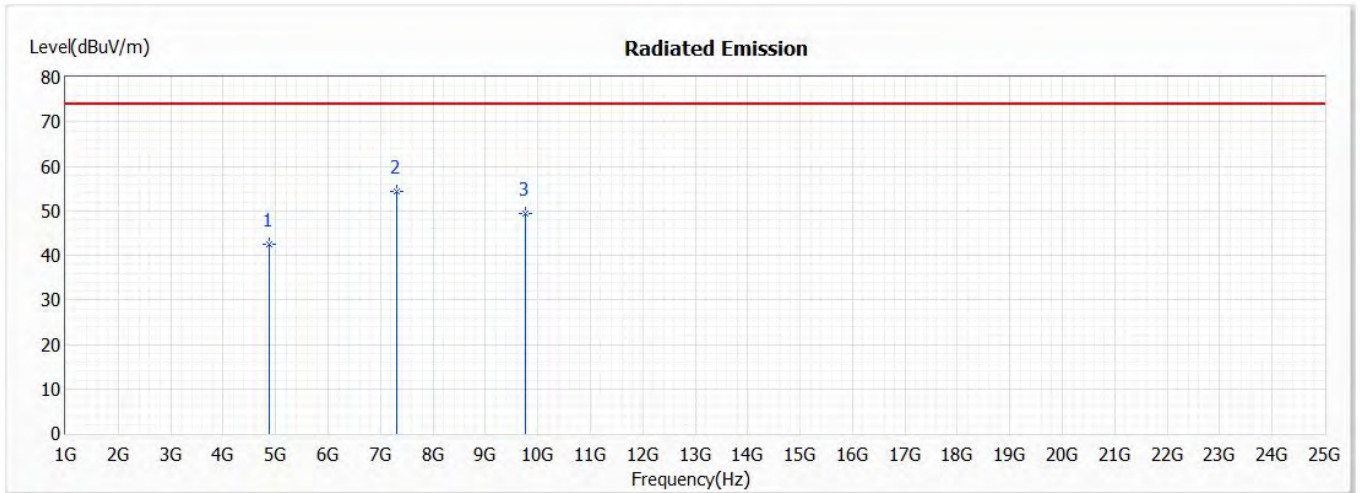
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	43.28	74.00	-30.72	42.68	0.60	PK
* 2	7320.000	52.96	74.00	-21.04	48.12	4.84	PK
3	9760.000	49.70	74.00	-24.30	42.48	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



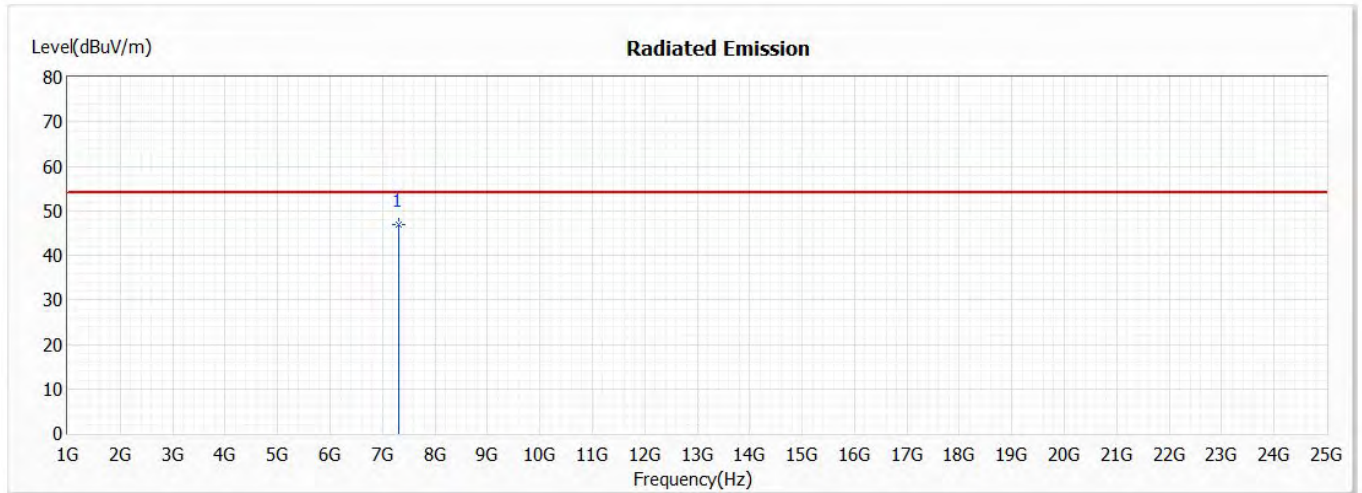
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	42.50	74.00	-31.50	41.90	0.60	PK
* 2	7320.000	54.43	74.00	-19.57	49.59	4.84	PK
3	9760.000	49.32	74.00	-24.68	42.10	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



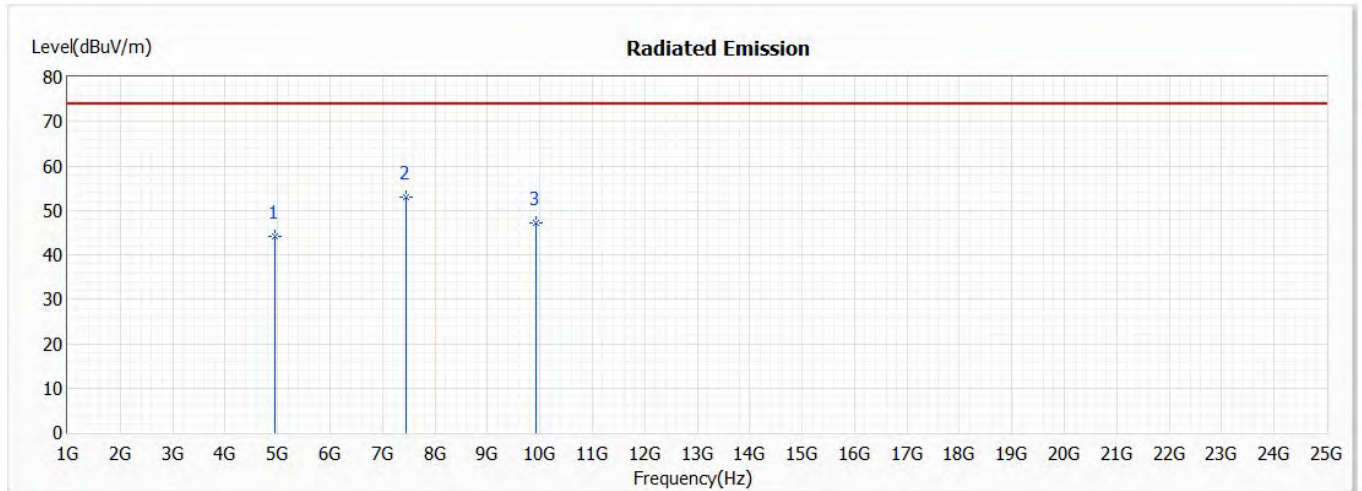
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	7320.000	46.99	54.00	-7.01	42.15	4.84	AV

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



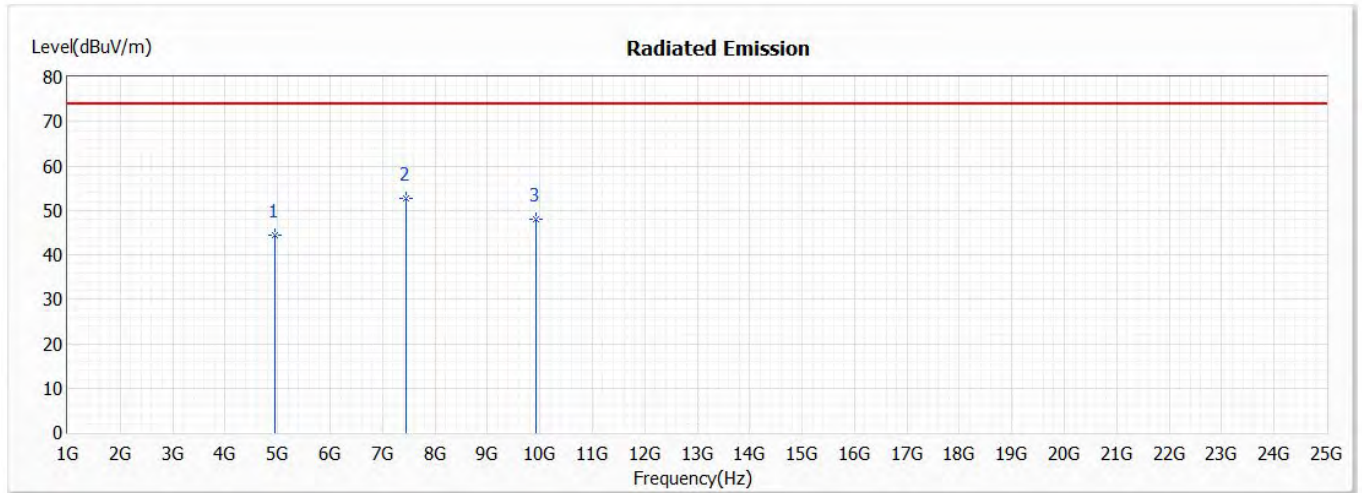
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.03	74.00	-29.97	43.33	0.70	PK
* 2	7440.000	52.88	74.00	-21.12	47.95	4.93	PK
3	9920.000	47.12	74.00	-26.88	39.72	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



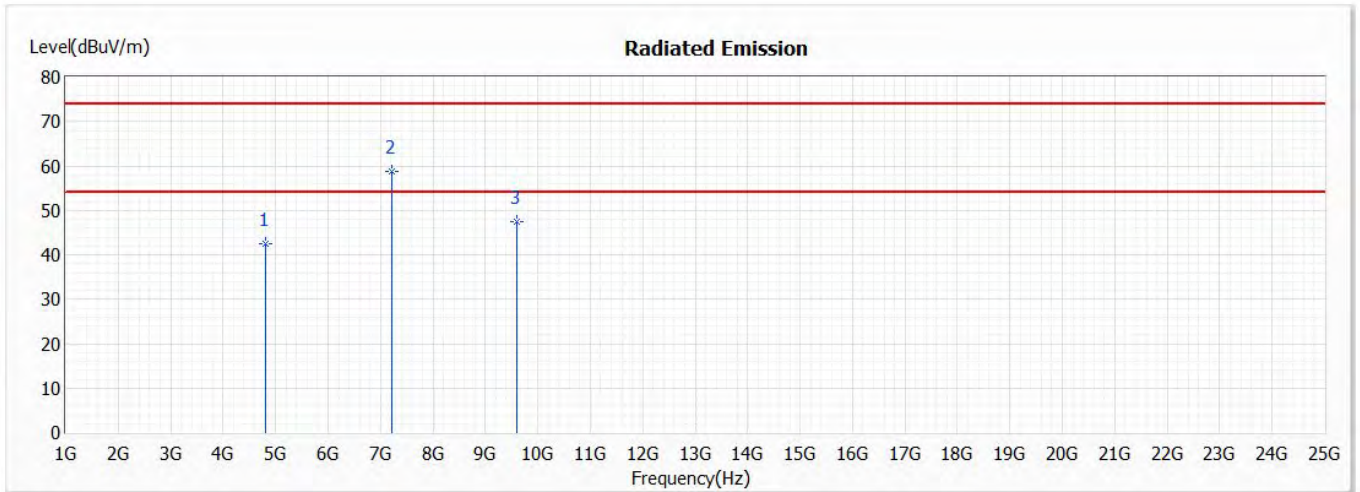
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	44.41	74.00	-29.59	43.71	0.70	PK
* 2	7440.000	52.67	74.00	-21.33	47.74	4.93	PK
3	9920.000	47.99	74.00	-26.01	40.59	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



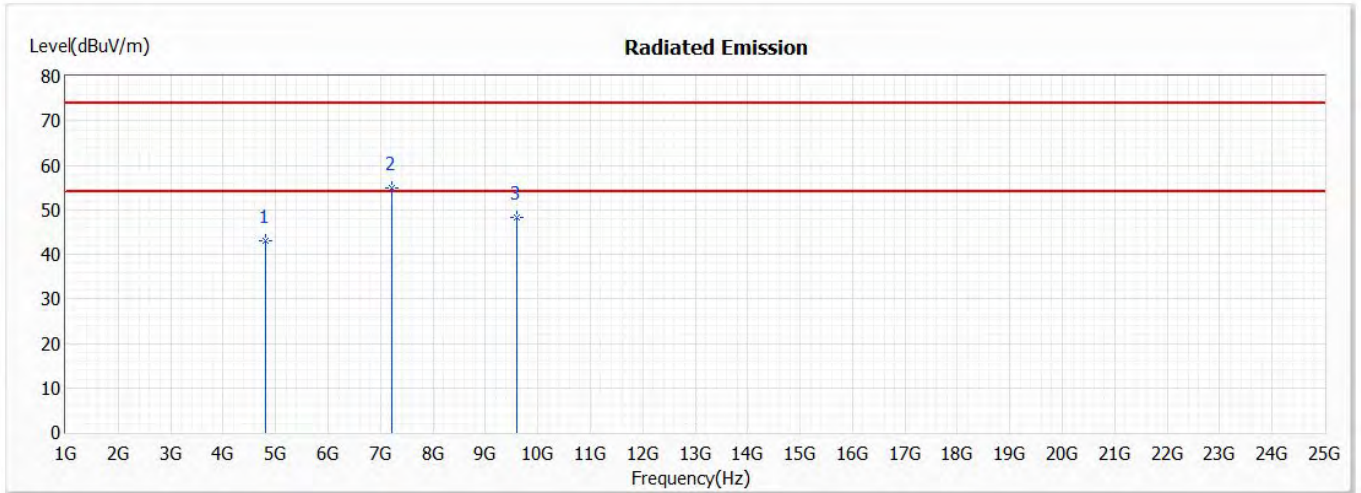
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	42.45	74.00	-31.55	41.96	0.49	PK
* 2	7206.000	58.76	74.00	-15.24	54.05	4.71	PK
3	9608.000	47.33	74.00	-26.67	40.48	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE(2402MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



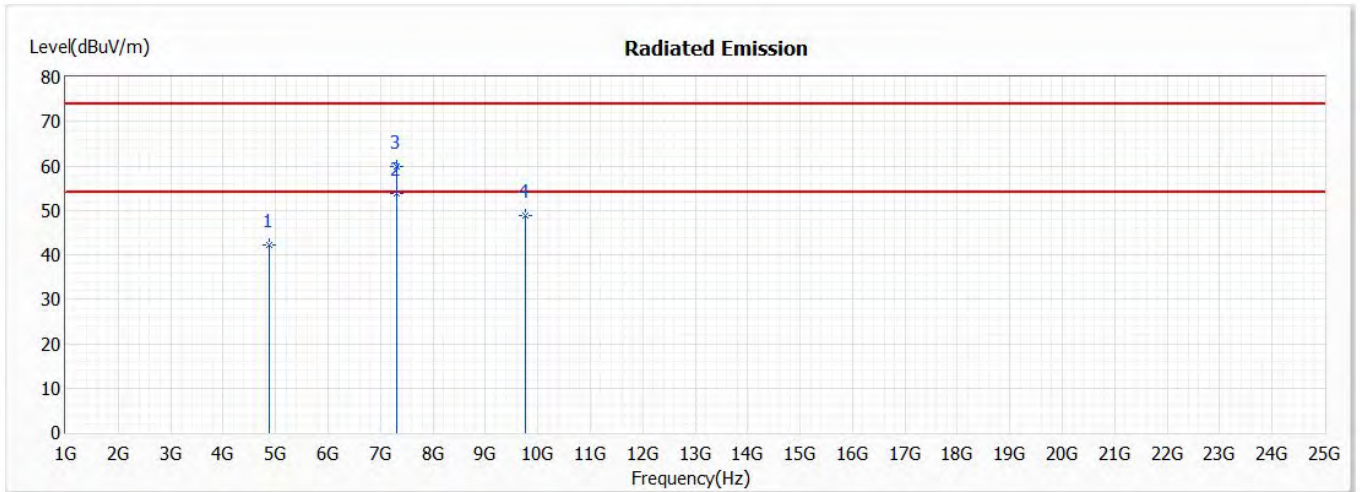
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4804.000	43.12	74.00	-30.88	42.63	0.49	PK
* 2	7206.000	54.88	74.00	-19.12	50.17	4.71	PK
3	9608.000	48.24	74.00	-25.76	41.39	6.85	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



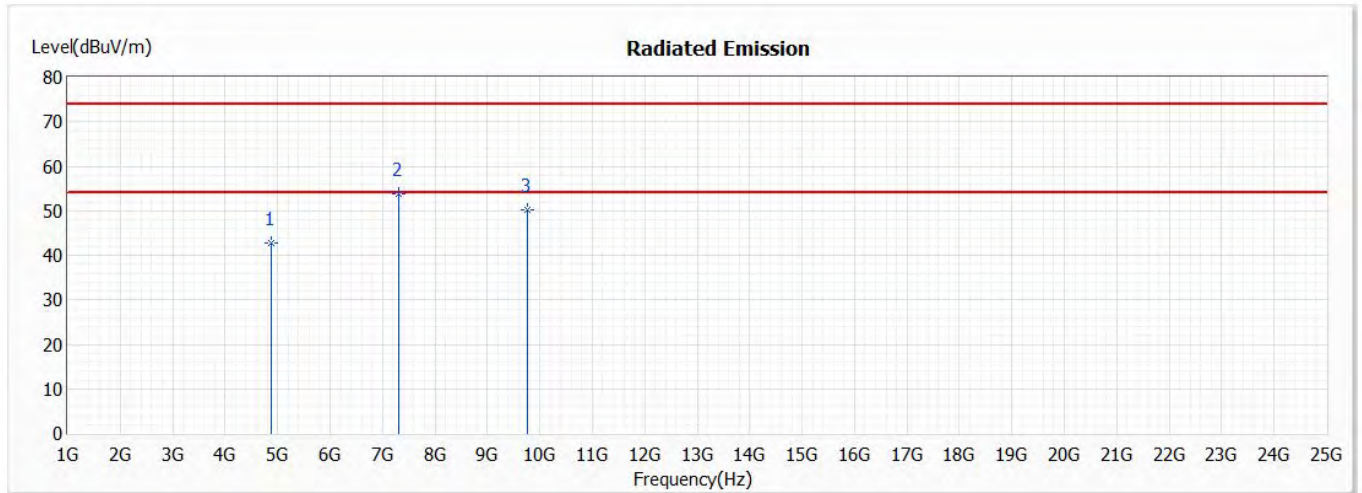
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	42.33	74.00	-31.67	41.73	0.60	PK
* 2	7320.000	59.76	74.00	-14.24	54.92	4.84	PK
3	7320.000	53.81	54.00	-0.19	48.97	4.84	AV
4	9760.000	48.84	74.00	-25.16	41.62	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



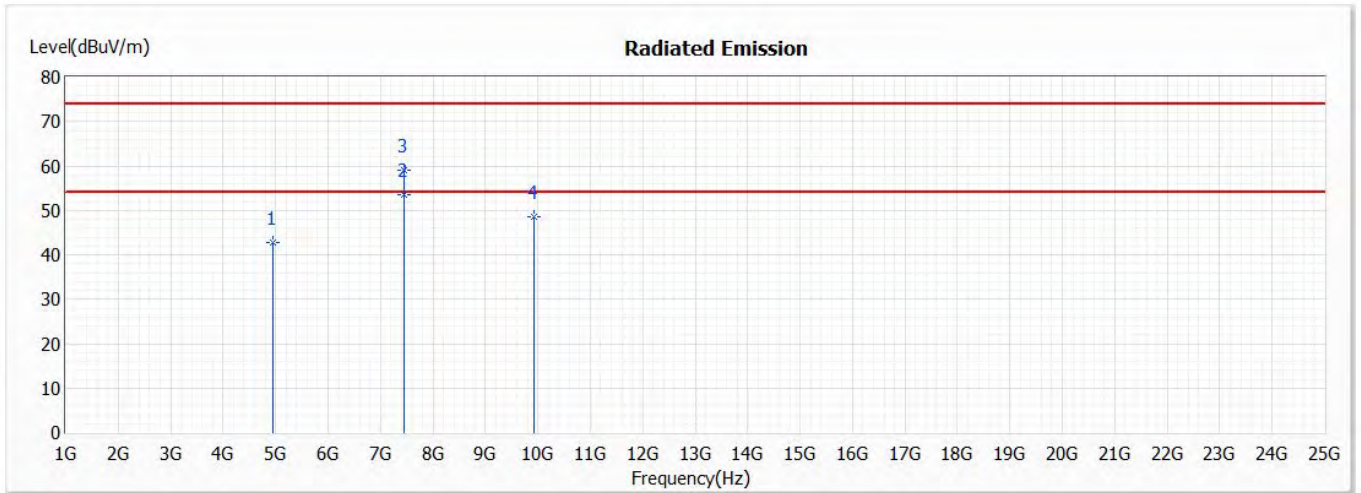
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4880.000	42.83	74.00	-31.17	42.23	0.60	PK
* 2	7320.000	53.76	74.00	-20.24	48.92	4.84	PK
3	9760.000	50.13	74.00	-23.87	42.91	7.22	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



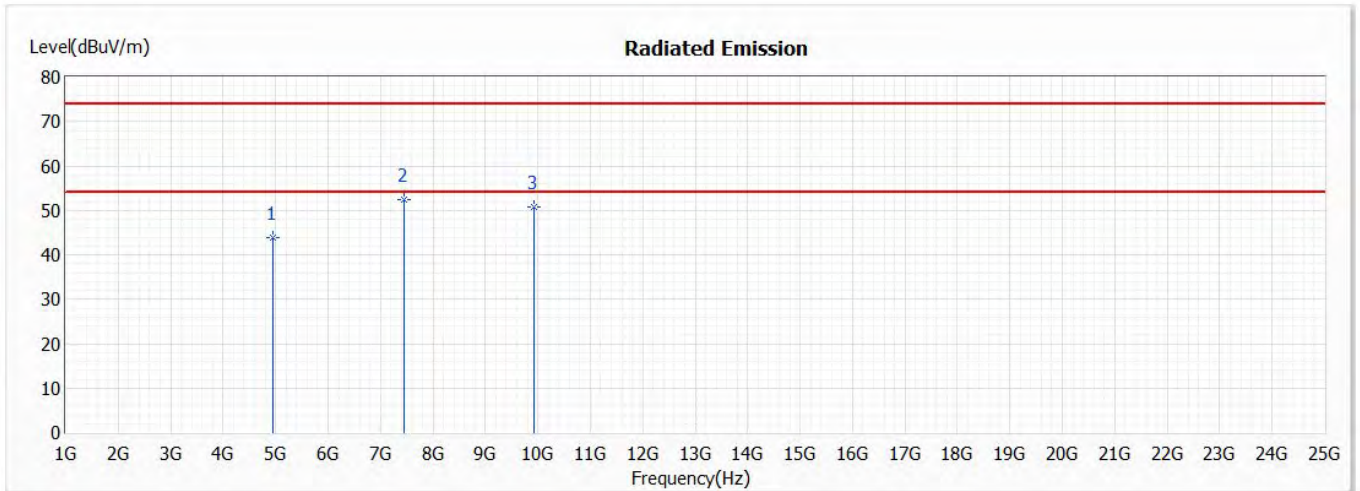
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	42.84	74.00	-31.16	42.14	0.70	PK
* 2	7440.000	59.13	74.00	-14.87	54.20	4.93	PK
3	7440.000	53.47	54.00	-0.53	48.54	4.93	AV
4	9920.000	48.48	74.00	-25.52	41.08	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : Harmonic Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



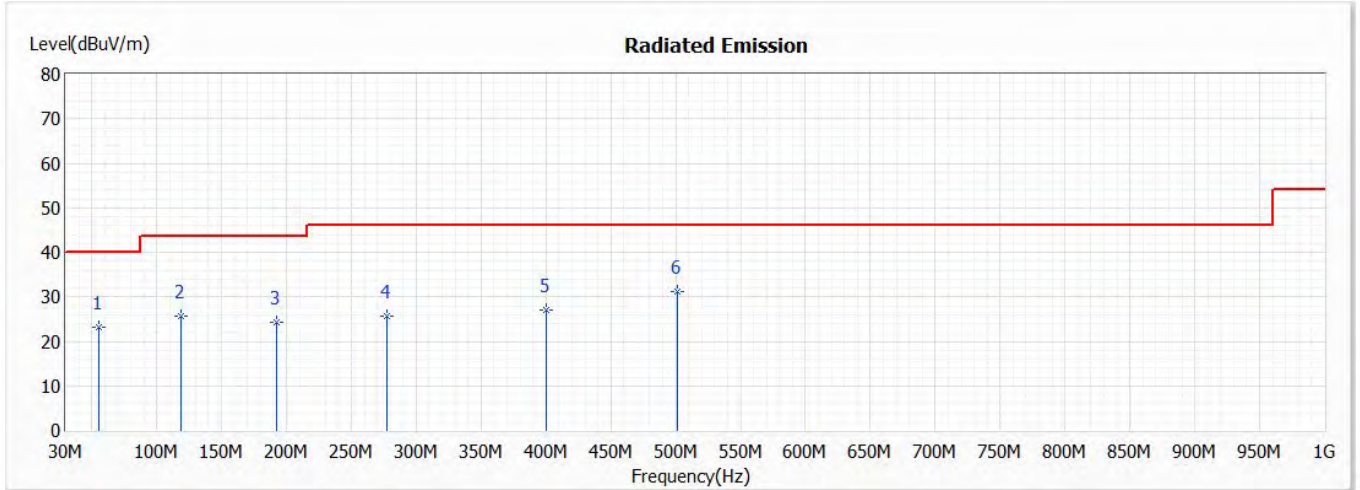
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	4960.000	43.84	74.00	-30.16	43.14	0.70	PK
* 2	7440.000	52.34	74.00	-21.66	47.41	4.93	PK
3	9920.000	50.79	74.00	-23.21	43.39	7.40	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement 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.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant - OTE140R)
 Test Date : 2021/05/27

Horizontal



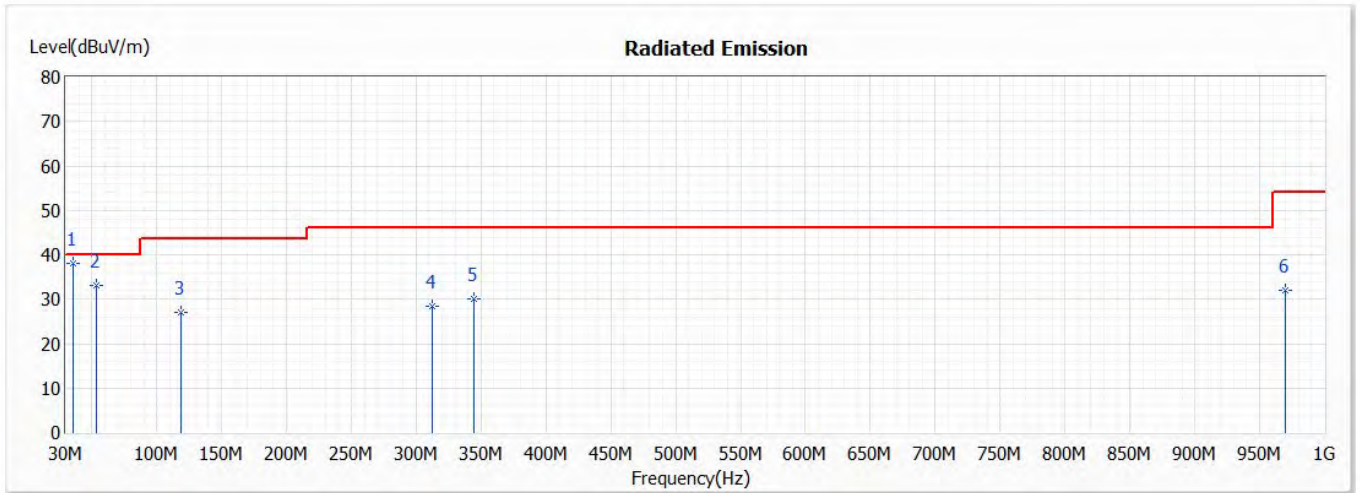
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	55.220	23.11	40.00	-16.89	33.80	-10.69	QP
2	119.240	25.78	43.50	-17.72	38.86	-13.08	QP
3	191.990	24.38	43.50	-19.12	37.65	-13.27	QP
4	277.350	25.70	46.00	-20.30	36.02	-10.32	QP
5	400.540	27.04	46.00	-18.96	34.25	-7.21	QP
* 6	501.420	31.06	46.00	-14.94	36.22	-5.16	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (PRO variant - OTE140R)
 Test Date : 2021/05/27

Vertical



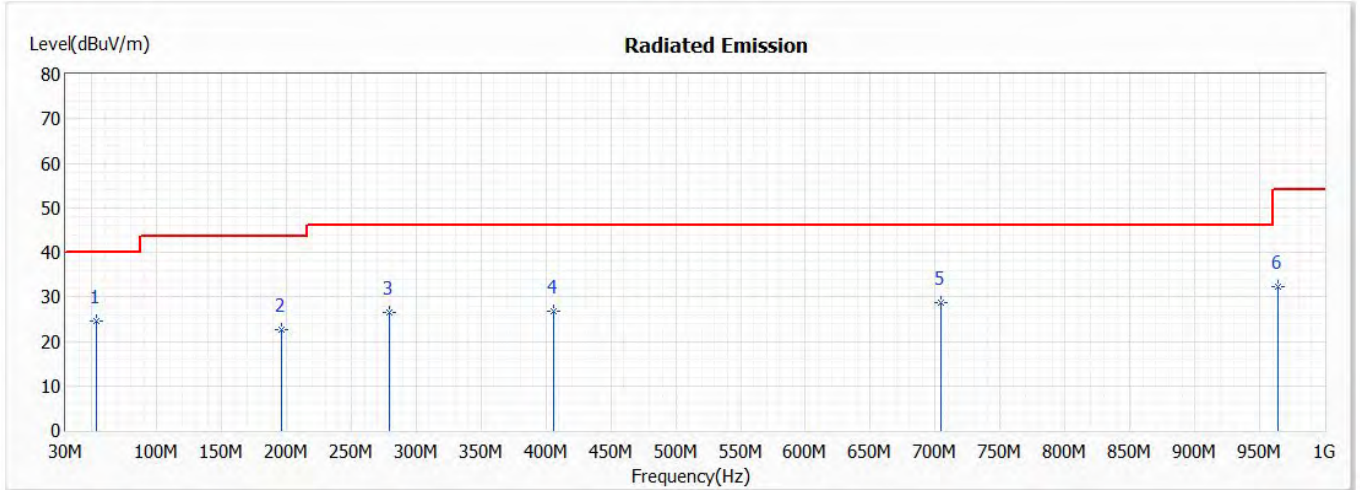
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	35.820	37.94	40.00	-2.06	49.35	-11.41	QP
2	53.280	33.14	40.00	-6.86	43.74	-10.60	QP
3	119.240	26.90	43.50	-16.60	39.98	-13.08	QP
4	312.270	28.33	46.00	-17.67	37.76	-9.43	QP
5	344.280	30.16	46.00	-15.84	38.74	-8.58	QP
6	969.930	31.93	54.00	-22.07	29.83	2.10	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant - OTE140R)
 Test Date : 2021/06/17

Horizontal



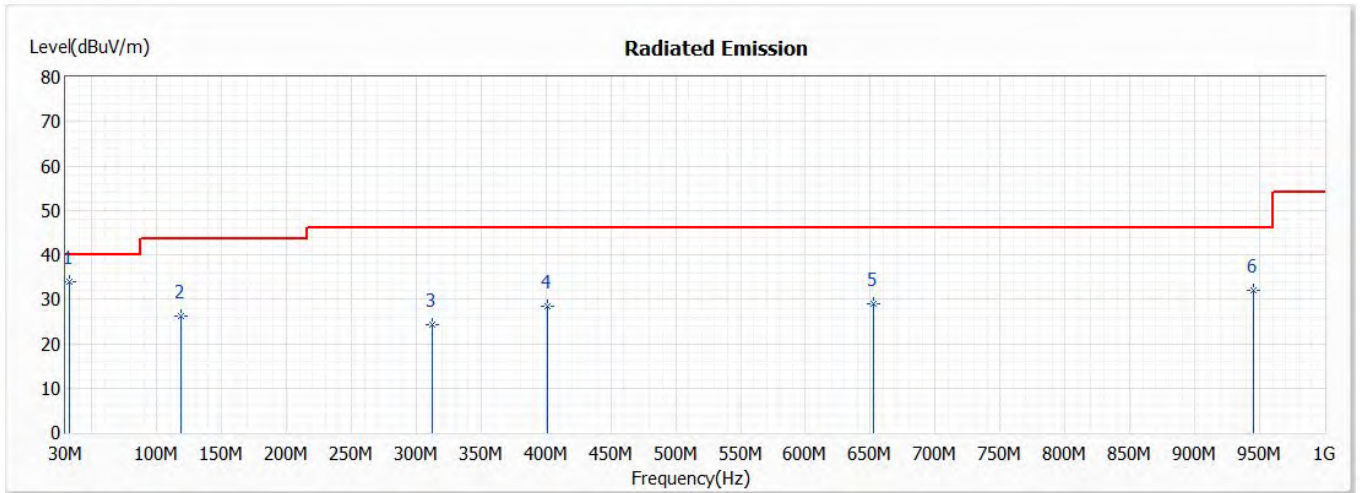
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	53.280	24.45	40.00	-15.55	35.05	-10.60	QP
2	195.870	22.59	43.50	-20.91	35.94	-13.35	QP
3	279.290	26.47	46.00	-19.53	36.69	-10.22	QP
4	406.360	26.68	46.00	-19.32	33.68	-7.00	QP
5	704.150	28.80	46.00	-17.20	30.34	-1.54	QP
6	964.110	32.18	54.00	-21.82	30.10	2.08	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2440MHz) (Active variant - OTE140R)
 Test Date : 2021/06/17

Vertical



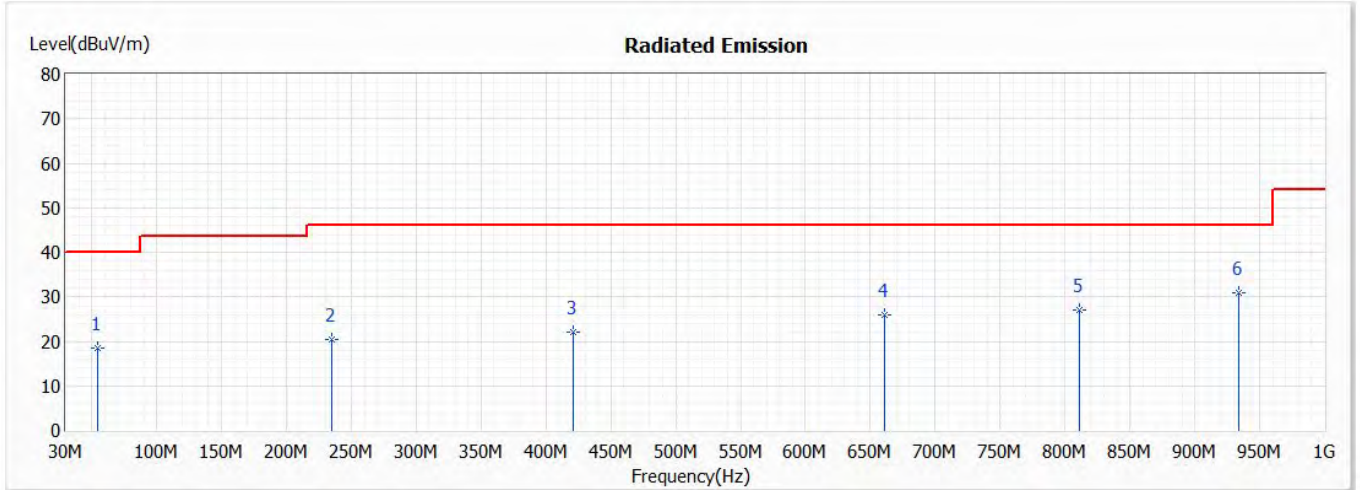
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	32.910	33.98	40.00	-6.02	45.70	-11.72	QP
2	119.240	26.11	43.50	-17.39	39.19	-13.08	QP
3	312.270	24.34	46.00	-21.66	33.77	-9.43	QP
4	401.510	28.45	46.00	-17.55	35.62	-7.17	QP
5	652.740	28.89	46.00	-17.11	31.24	-2.35	QP
6	945.680	32.00	46.00	-14.00	30.13	1.87	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 2: Charge Mode
 Test Date : 2021/05/27

Horizontal



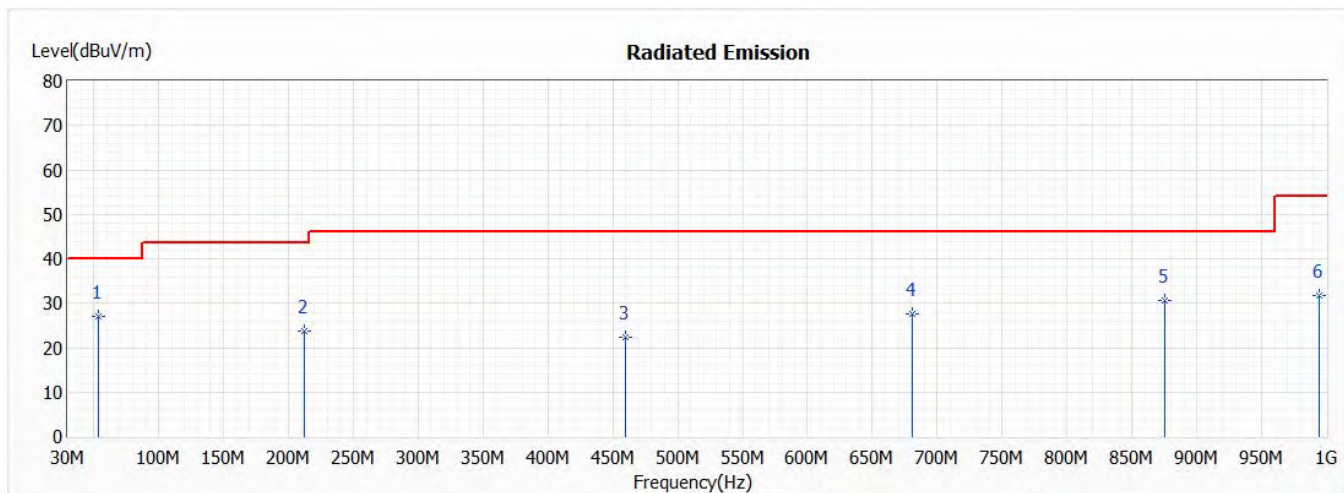
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	54.250	18.43	40.00	-21.57	29.05	-10.62	QP
2	234.670	20.55	46.00	-25.45	32.02	-11.47	QP
3	420.910	22.14	46.00	-23.86	28.76	-6.62	QP
4	660.500	26.01	46.00	-19.99	28.24	-2.23	QP
5	810.850	27.10	46.00	-18.90	27.02	0.08	QP
* 6	934.040	30.76	46.00	-15.24	29.06	1.70	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Bluetooth Headset
 Test Item : General Radiated Emission
 Test Mode : Mode 2: Charge Mode
 Test Date : 2021/05/27

Vertical



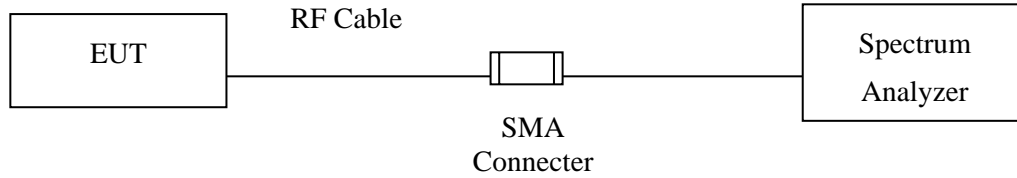
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	53.280	27.07	40.00	-12.93	37.67	-10.60	QP
2	212.360	23.71	43.50	-19.79	36.68	-12.97	QP
3	459.710	22.47	46.00	-23.53	28.30	-5.83	QP
4	680.870	27.52	46.00	-18.48	29.41	-1.89	QP
5	874.870	30.66	46.00	-15.34	29.99	0.67	QP
6	994.180	31.72	54.00	-22.28	29.65	2.07	QP

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. No emission found between lowest internal used/generated frequency to 30MHz.

5. RF Antenna Conducted Test

5.1. Test Setup



5.2. Limits

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

5.3. Test Procedure

The EUT was tested according to C63.10:2013 Section 11.11 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Result of RF Antenna Conducted Test

Product : Bluetooth Headset
 Test Item : RF Antenna Conducted Test
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140L)
 Test Date : 2021/05/28

Figure Channel 00:

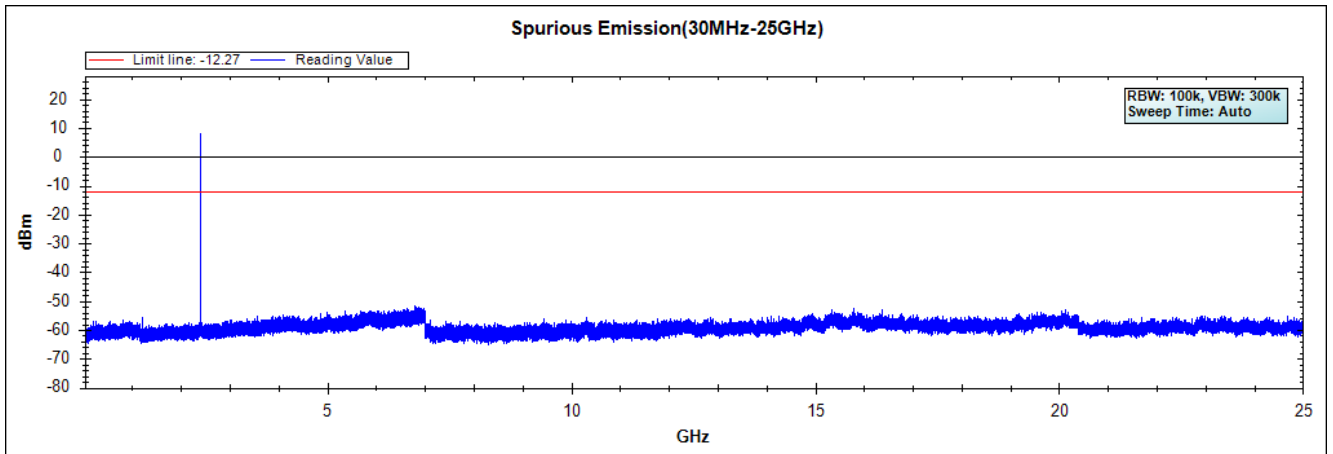


Figure Channel 19:

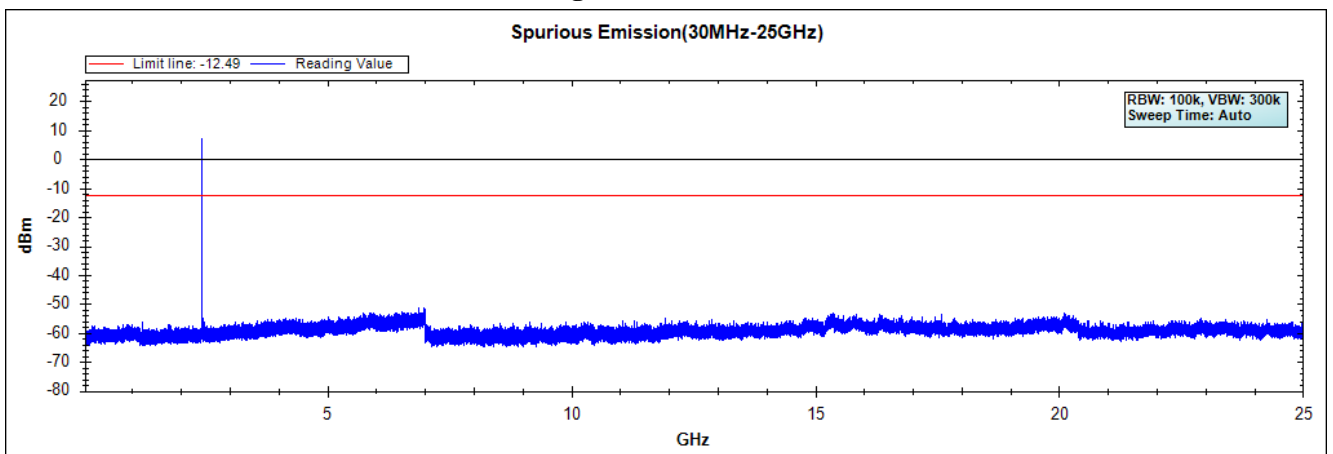
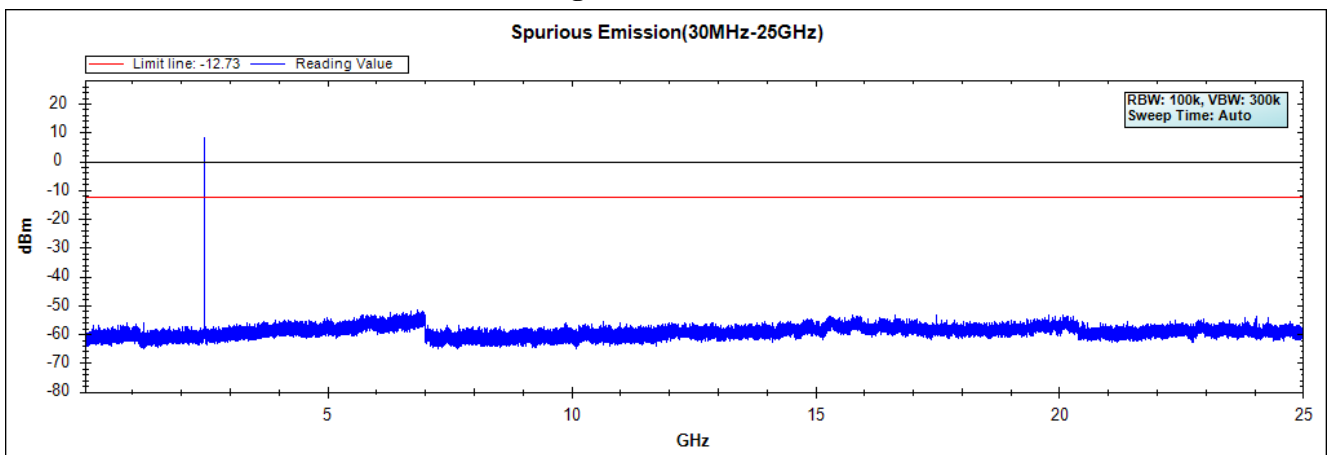


Figure Channel 39:



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

Product : Bluetooth Headset
 Test Item : RF Antenna Conducted Test
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140R)
 Test Date : 2021/05/28

Figure Channel 00:

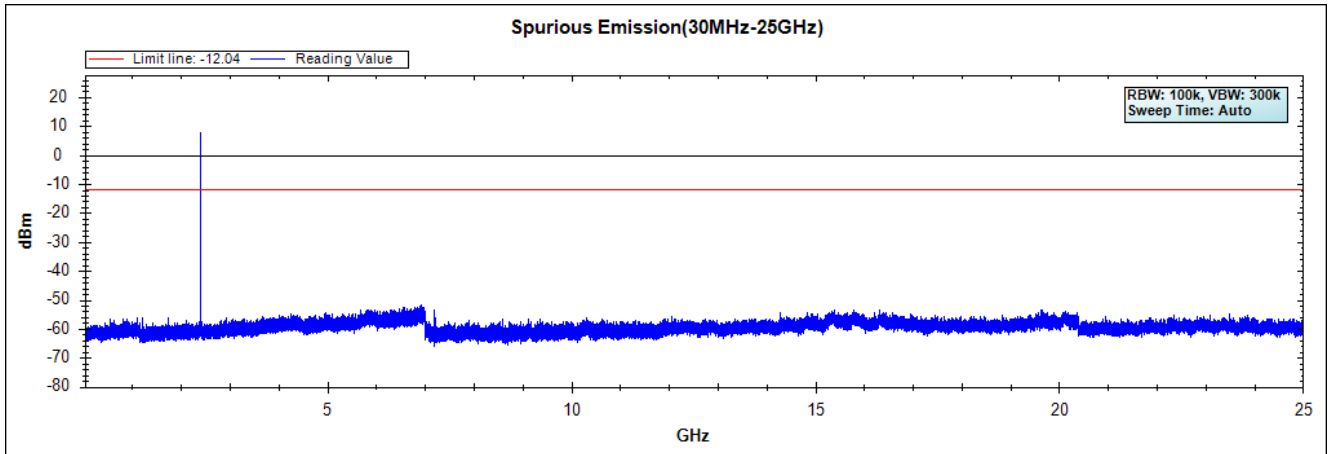


Figure Channel 19:

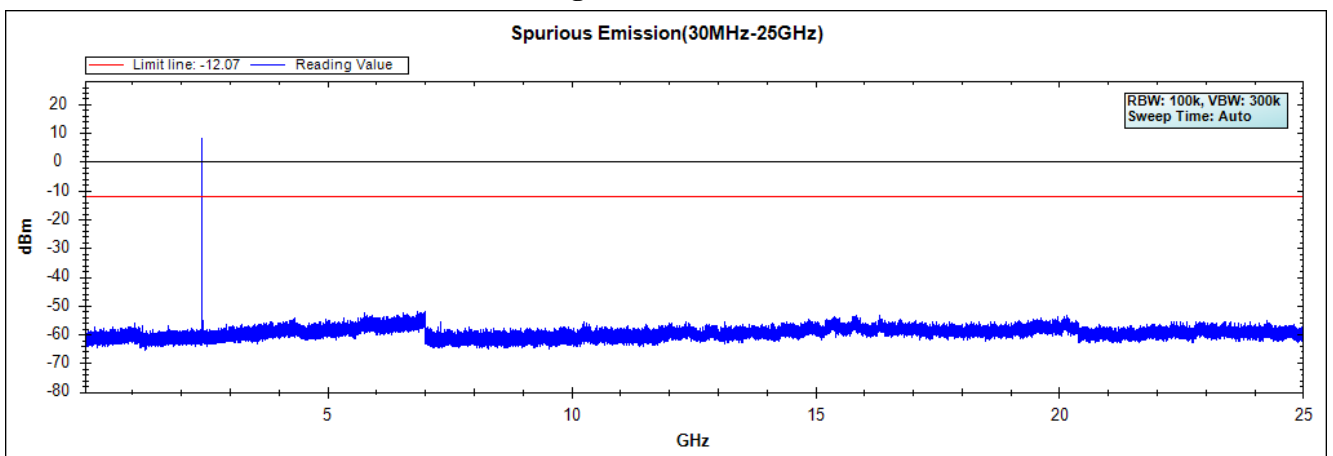
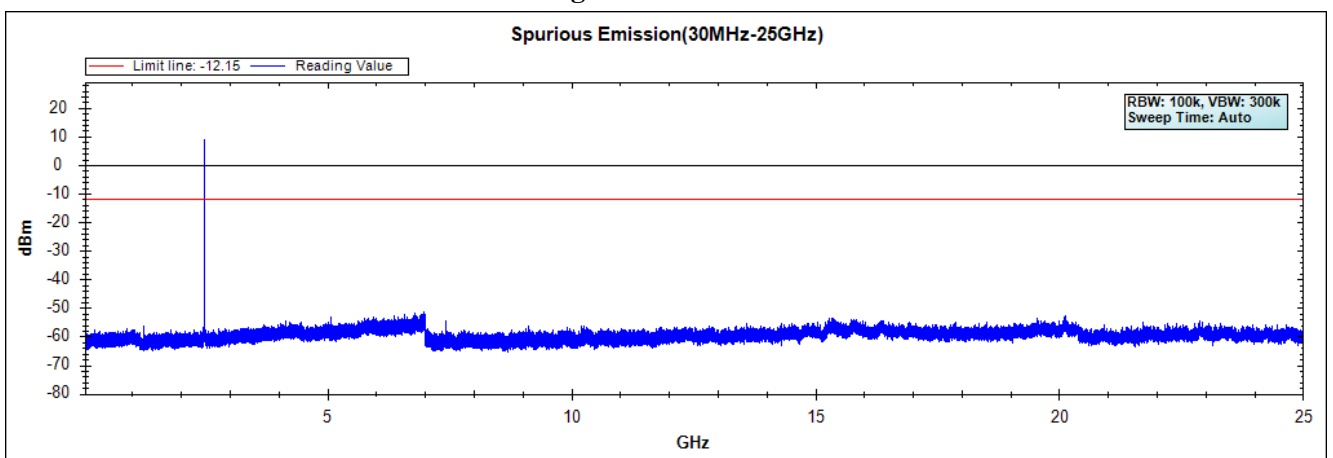


Figure Channel 39:

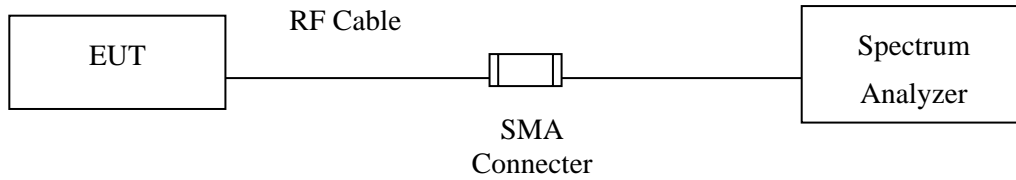


Note: The above test pattern is synthesized by multiple of the frequency range.

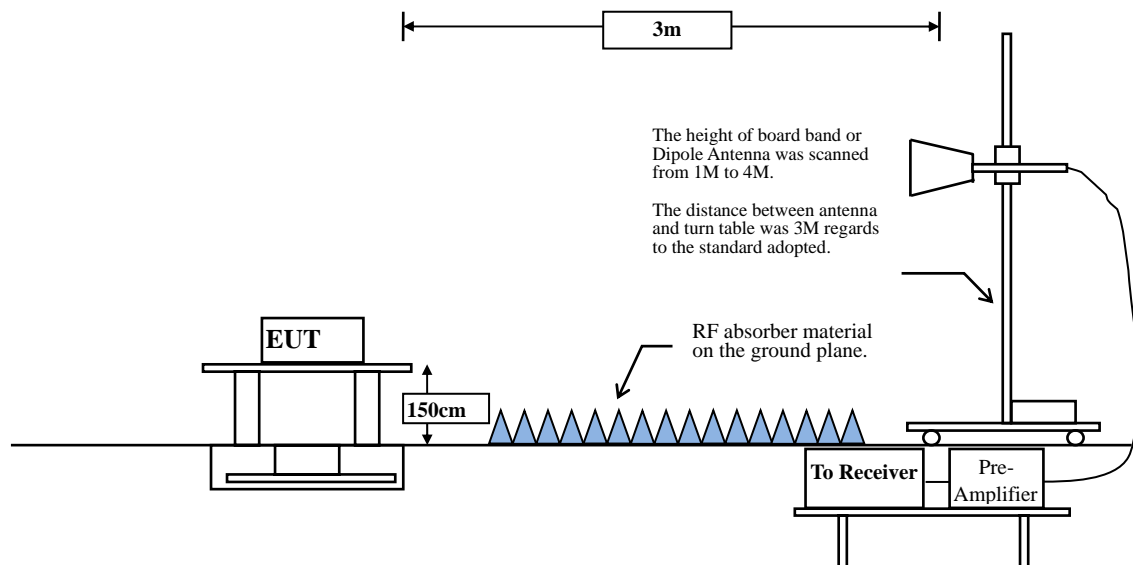
6. Band Edge

6.1. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.2. Limit

According to FCC Section 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

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 from 1 meter to 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.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

VBW \geq 3 x RBW.

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

VBW = 10Hz, when duty cycle \geq 98 %

VBW \geq 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

OTE140L

2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
BLE 1Mbps	85.33	2.1400	467	500

Note: Duty Cycle Refer to Section 9.

OTE140R

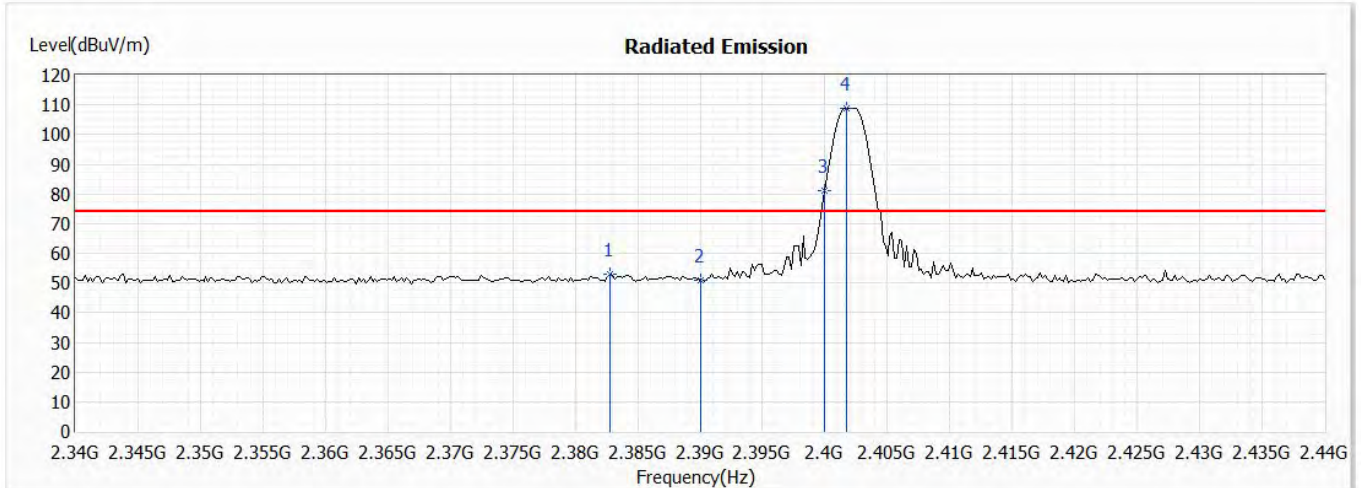
2.4GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
BLE 1Mbps	85.30	2.1360	468	500

Note: Duty Cycle Refer to Section 9.

6.4. Test Result of Band Edge

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



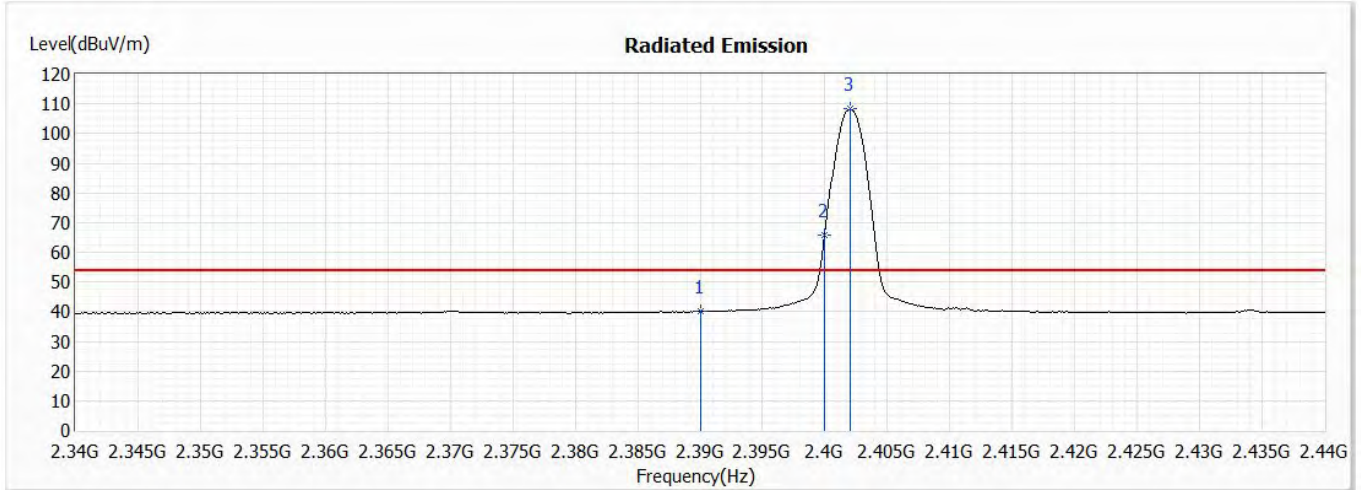
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2382.764	52.84	74.00	-21.16	39.69	13.15	PK
2	2390.000	51.02	74.00	-22.98	37.86	13.16	PK
3	2400.000	80.93	--	--	67.75	13.18	PK
4	2401.727	108.91	--	--	95.73	13.18	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



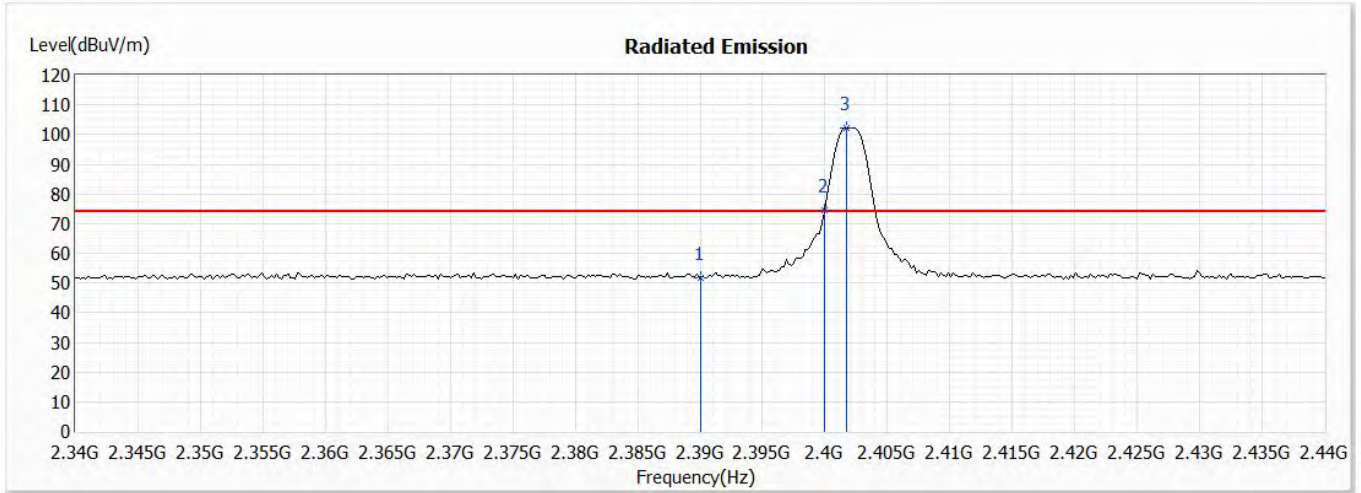
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	40.04	54.00	-13.96	26.88	13.16	AV
2	2400.000	65.85	--	--	52.67	13.18	AV
3	2402.000	108.23	--	--	95.05	13.18	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



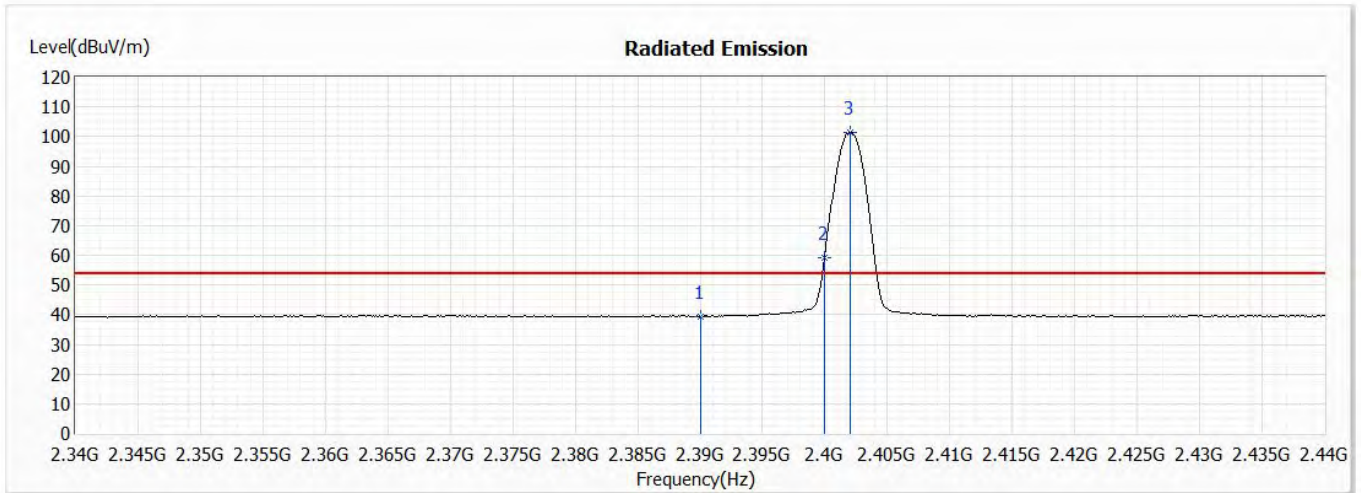
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	51.86	74.00	-22.14	38.70	13.16	PK
2	2400.000	74.52	--	--	61.34	13.18	PK
3	2401.727	102.27	--	--	89.09	13.18	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



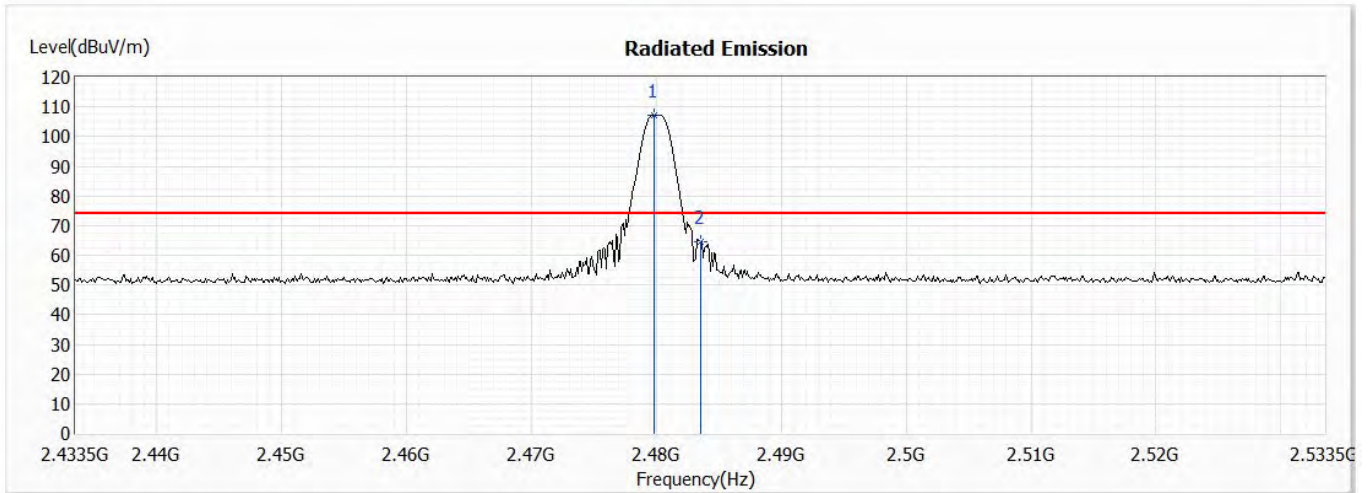
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	39.50	54.00	-14.50	26.34	13.16	AV
2	2400.000	59.10	--	--	45.92	13.18	AV
3	2402.000	101.55	--	--	88.37	13.18	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



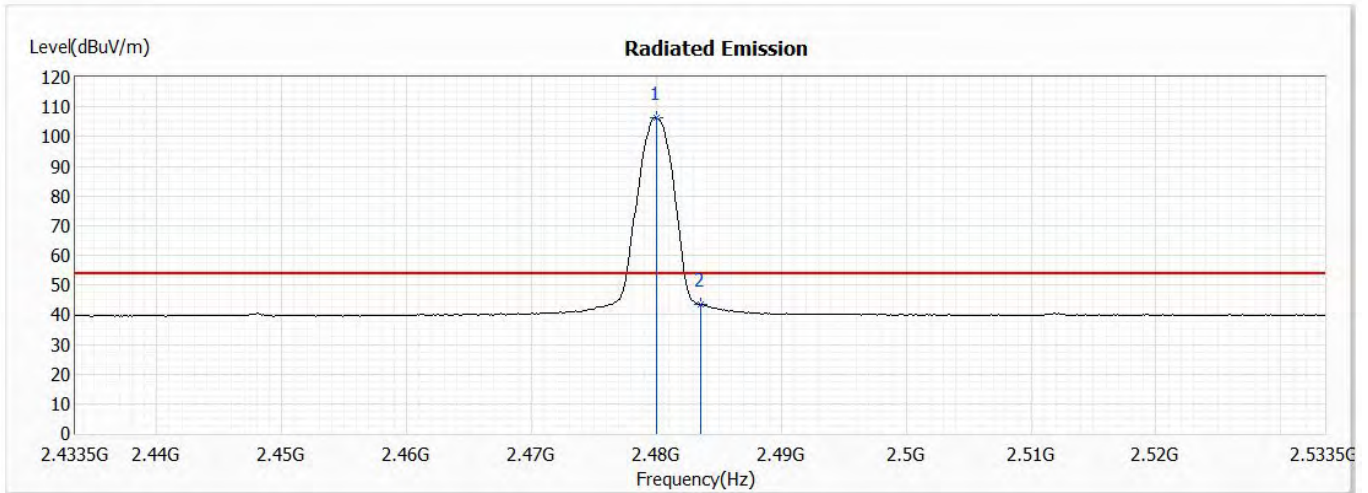
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.800	107.23	--	--	94.04	13.19	PK
2	2483.500	64.37	74.00	-9.63	51.18	13.19	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Horizontal



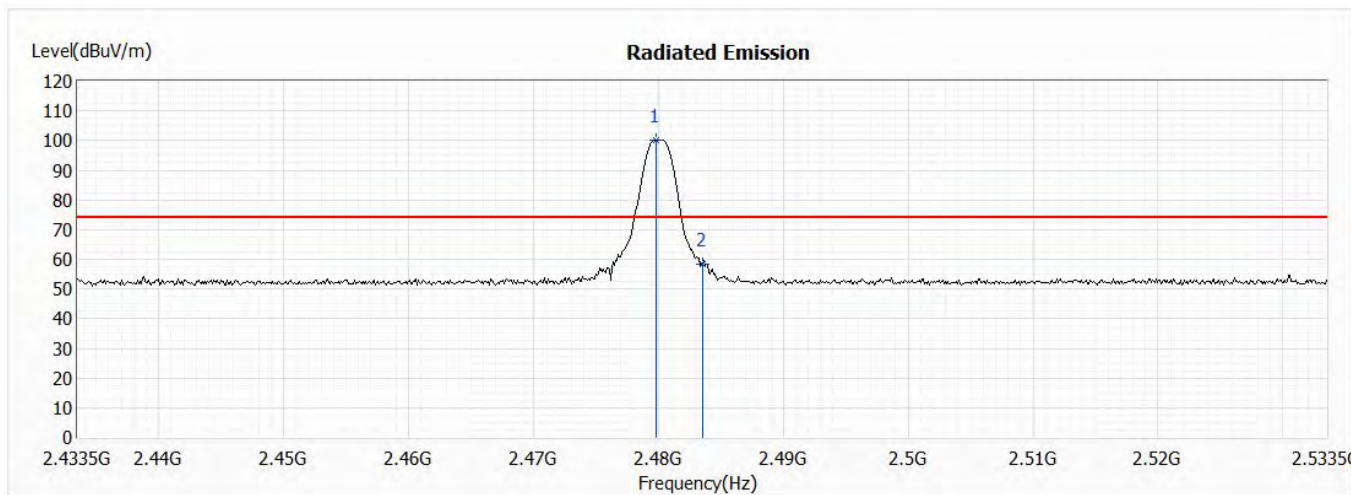
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	106.53	--	--	93.34	13.19	AV
2	2483.500	43.58	54.00	-10.42	30.39	13.19	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



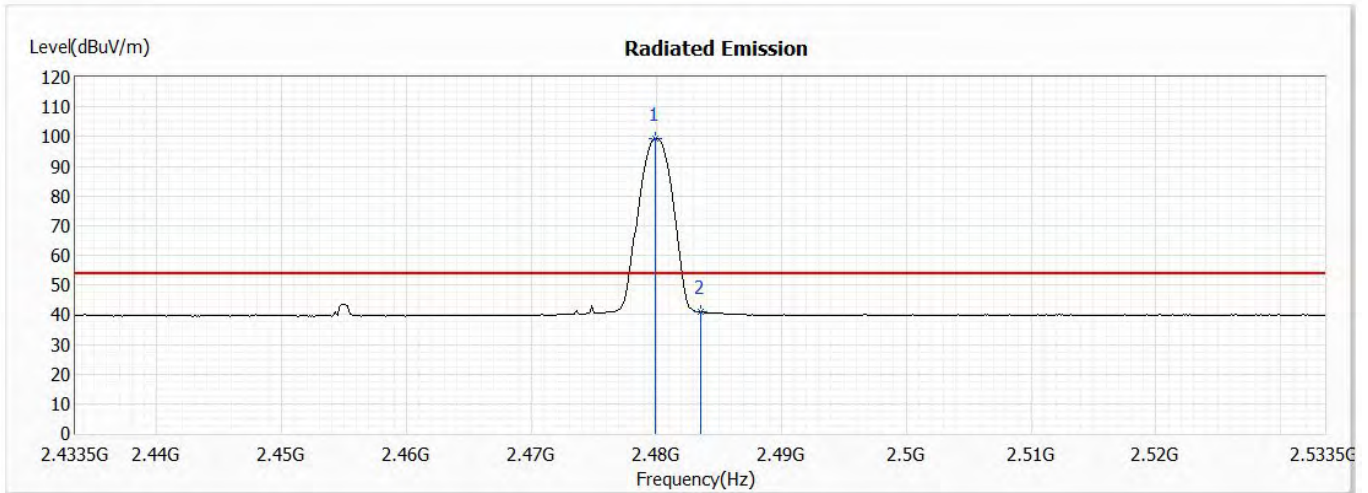
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.800	100.28	--	--	87.09	13.19	PK
2	2483.500	58.53	74.00	-15.47	45.34	13.19	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140L)
 Test Date : 2021/05/28

Vertical



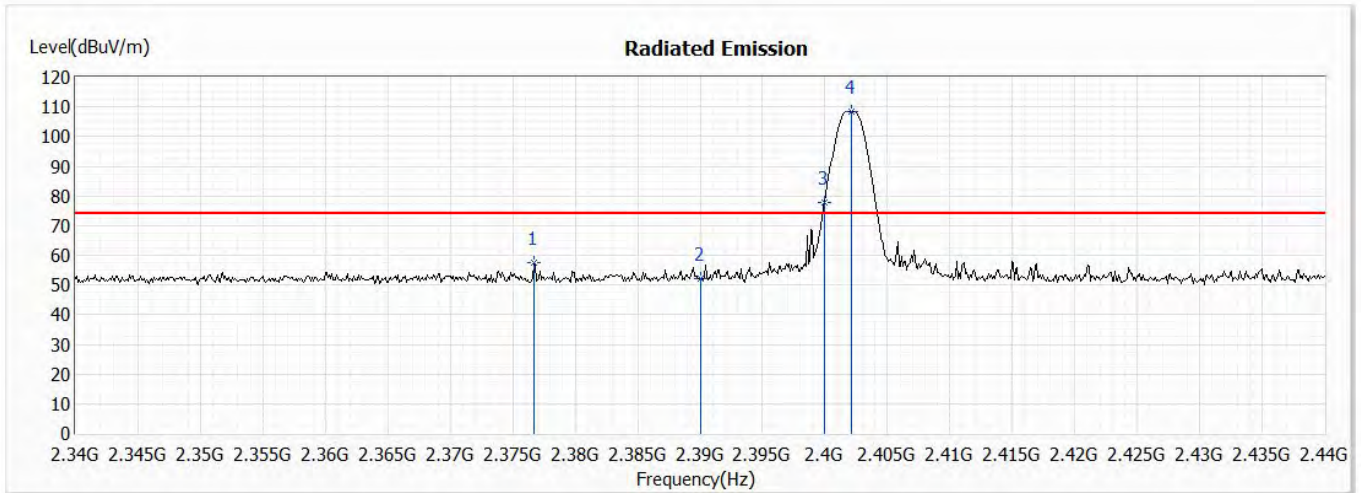
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.900	99.50	--	--	86.31	13.19	AV
2	2483.500	40.93	54.00	-13.07	27.74	13.19	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



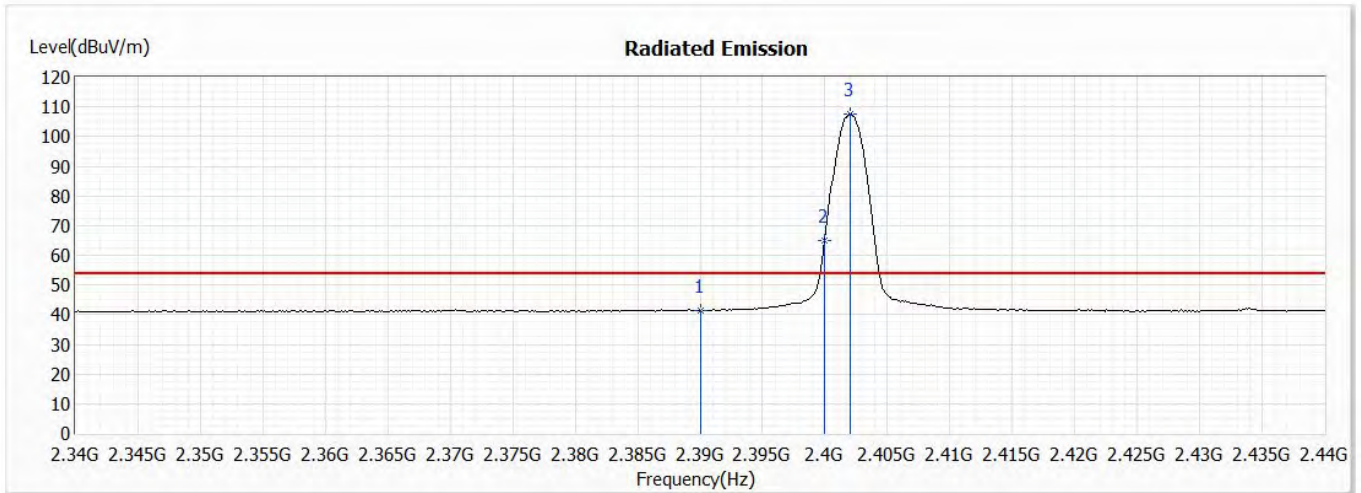
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2376.700	57.72	74.00	-16.28	44.55	13.17	PK
2	2390.000	52.04	74.00	-21.96	38.85	13.19	PK
3	2400.000	77.89	74.00	3.89	64.69	13.20	PK
4	2402.100	108.48	74.00	34.48	95.28	13.20	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



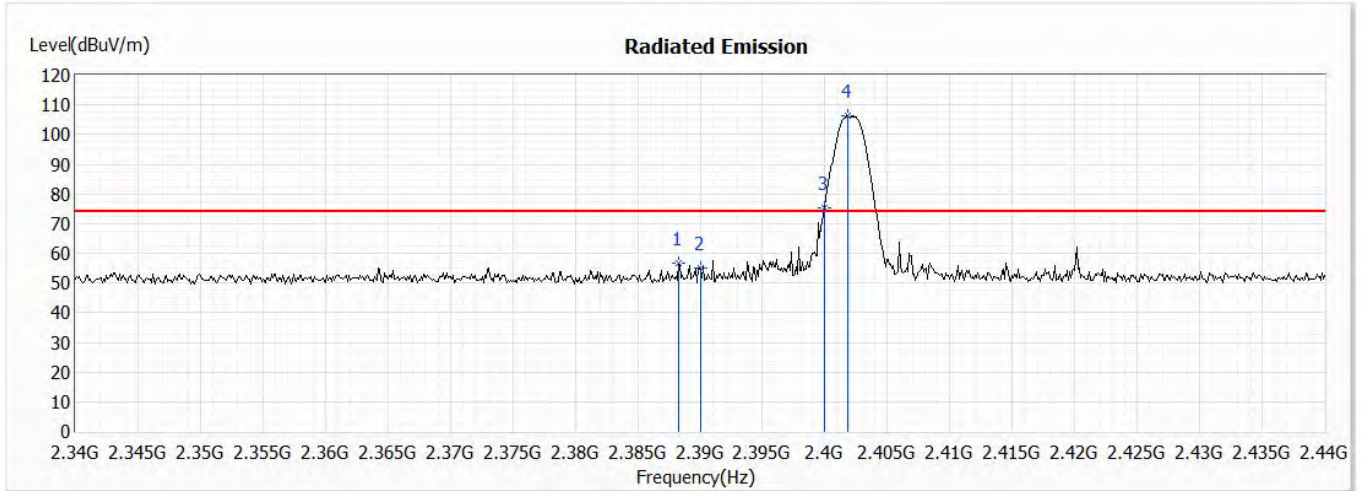
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	41.41	54.00	-12.59	28.22	13.19	AV
2	2400.000	64.91	54.00	10.91	51.71	13.20	AV
3	2402.000	107.77	54.00	53.77	94.57	13.20	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



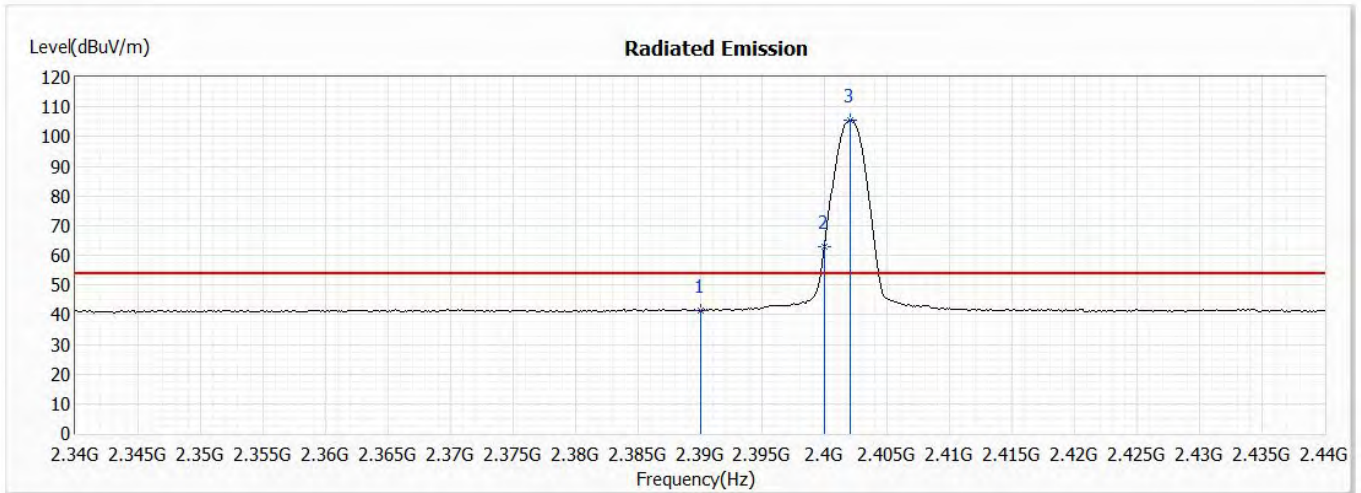
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2388.300	56.74	74.00	-17.26	43.55	13.19	PK
2	2390.000	55.17	74.00	-18.83	41.98	13.19	PK
3	2400.000	75.40	74.00	1.40	62.20	13.20	PK
4	2401.800	106.17	74.00	32.17	92.97	13.20	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



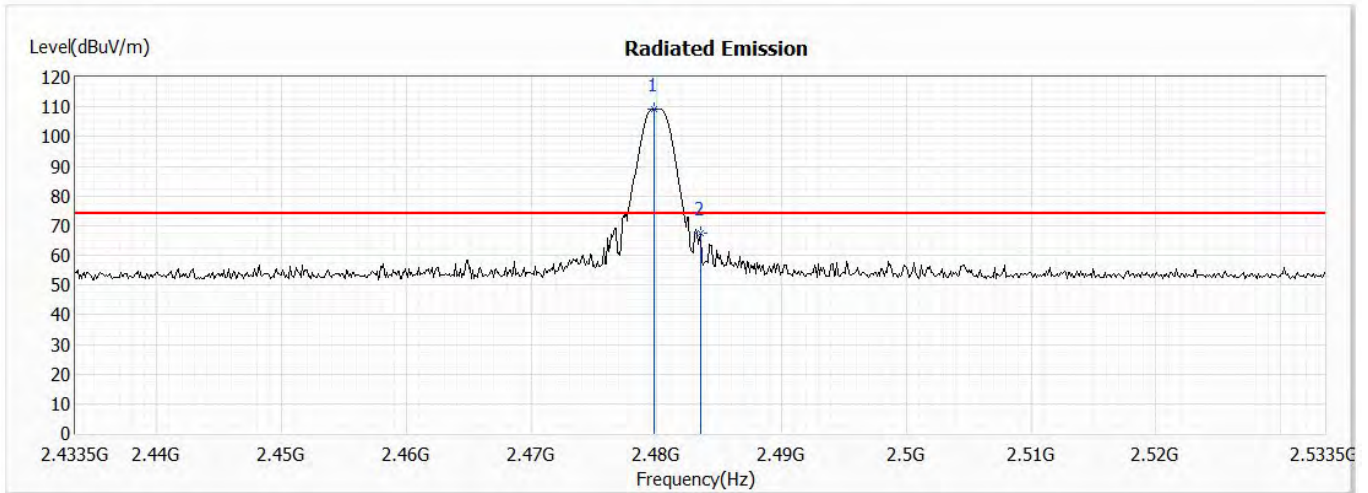
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	41.33	54.00	-12.67	28.14	13.19	AV
2	2400.000	62.84	54.00	8.84	49.64	13.20	AV
3	2402.000	105.67	54.00	51.67	92.47	13.20	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



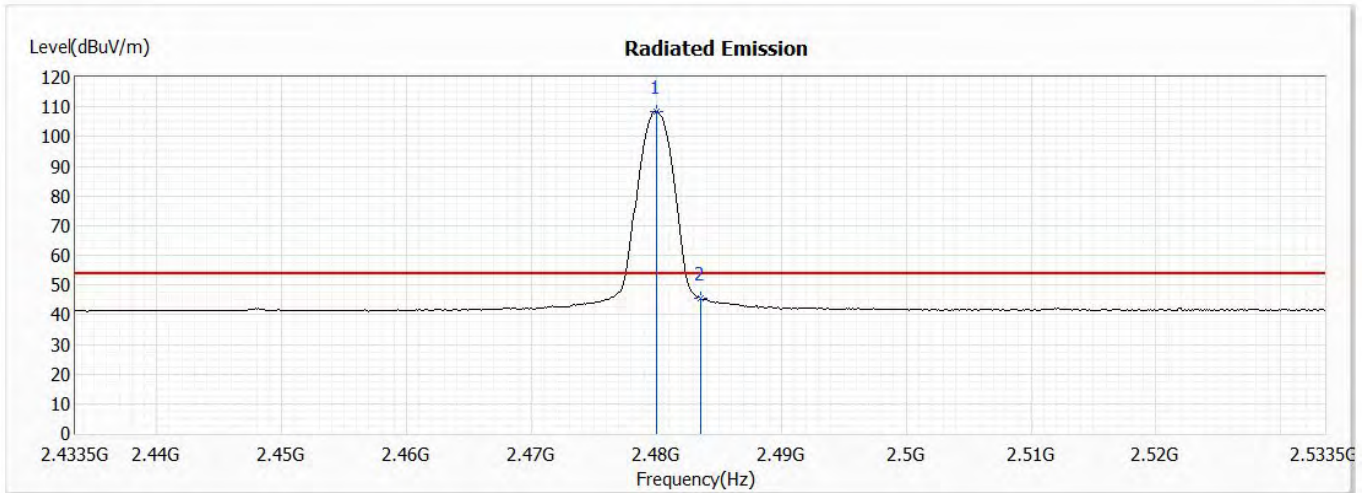
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.800	109.32	74.00	35.32	96.11	13.21	PK
2	2483.500	67.37	74.00	-6.63	54.16	13.21	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Horizontal



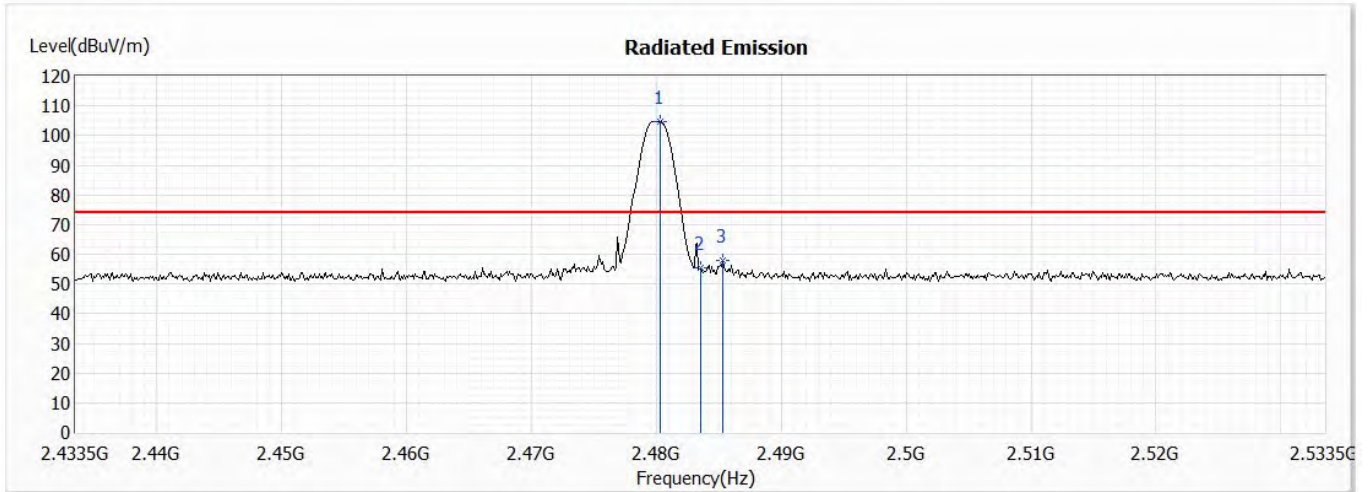
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	108.60	54.00	54.60	95.39	13.21	AV
2	2483.500	45.60	54.00	-8.40	32.39	13.21	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



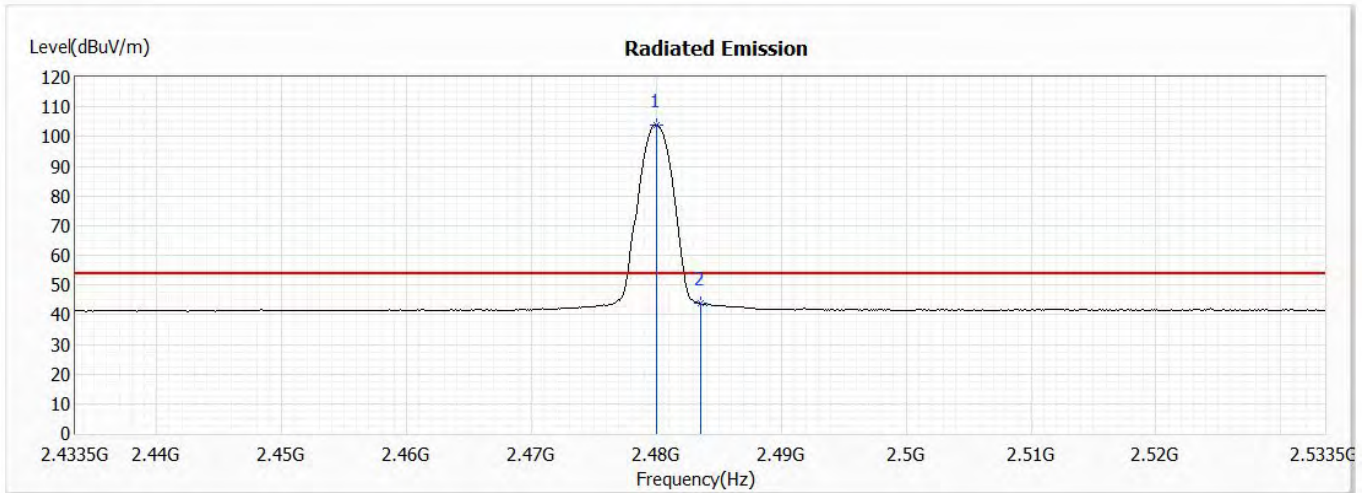
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.300	104.66	74.00	30.66	91.45	13.21	PK
2	2483.500	55.38	74.00	-18.62	42.17	13.21	PK
3	2485.300	58.08	74.00	-15.92	44.87	13.21	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140L)
 Test Date : 2021/07/27

Vertical



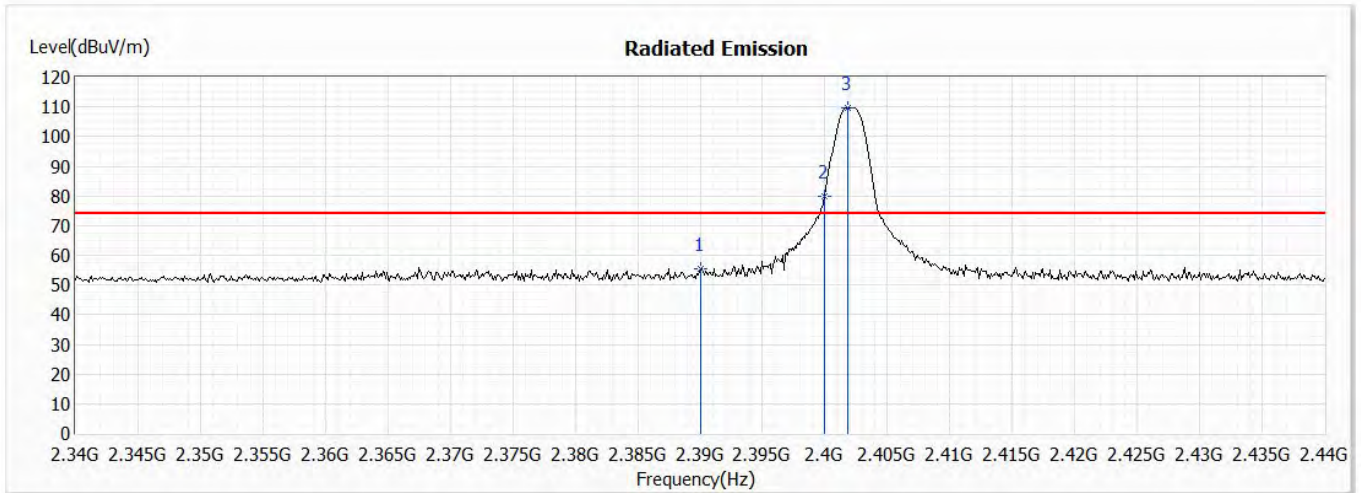
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	104.01	54.00	50.01	90.80	13.21	AV
2	2483.500	43.72	54.00	-10.28	30.51	13.21	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



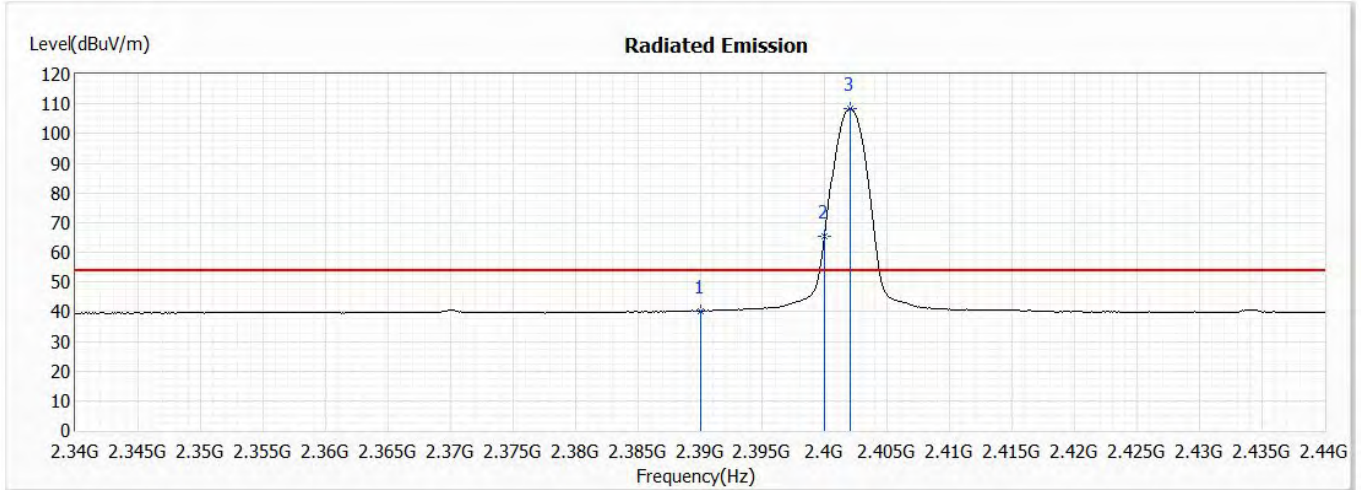
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	55.54	74.00	-18.46	42.38	13.16	PK
2	2400.000	79.68	--	--	66.50	13.18	PK
3	2401.800	109.73	--	--	96.55	13.18	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



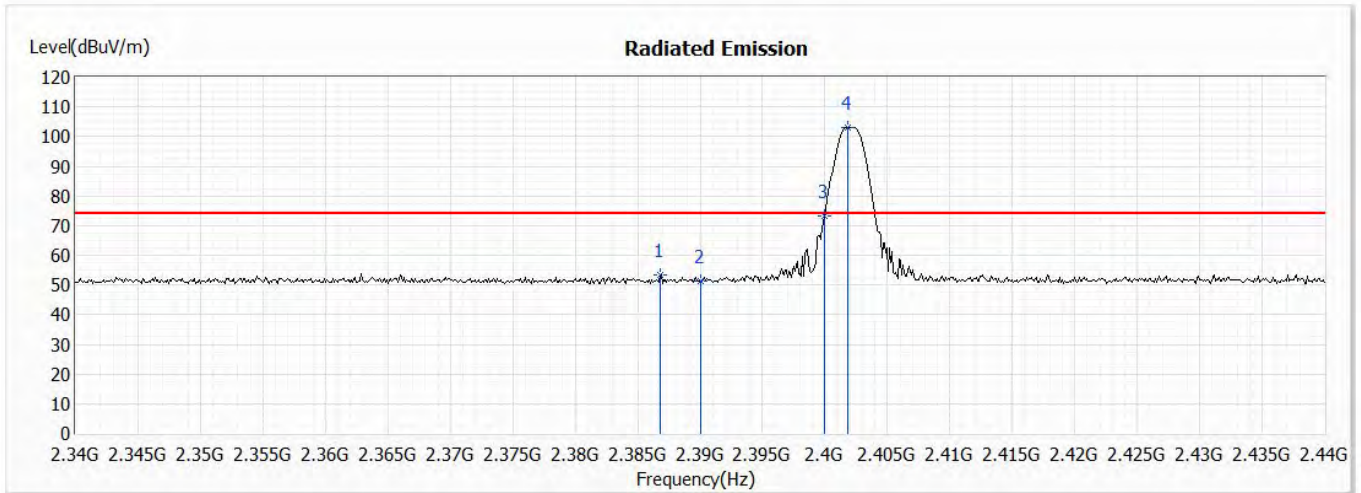
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	40.25	54.00	-13.75	27.09	13.16	AV
2	2400.000	65.51	--	--	52.33	13.18	AV
3	2402.000	108.30	--	--	95.12	13.18	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



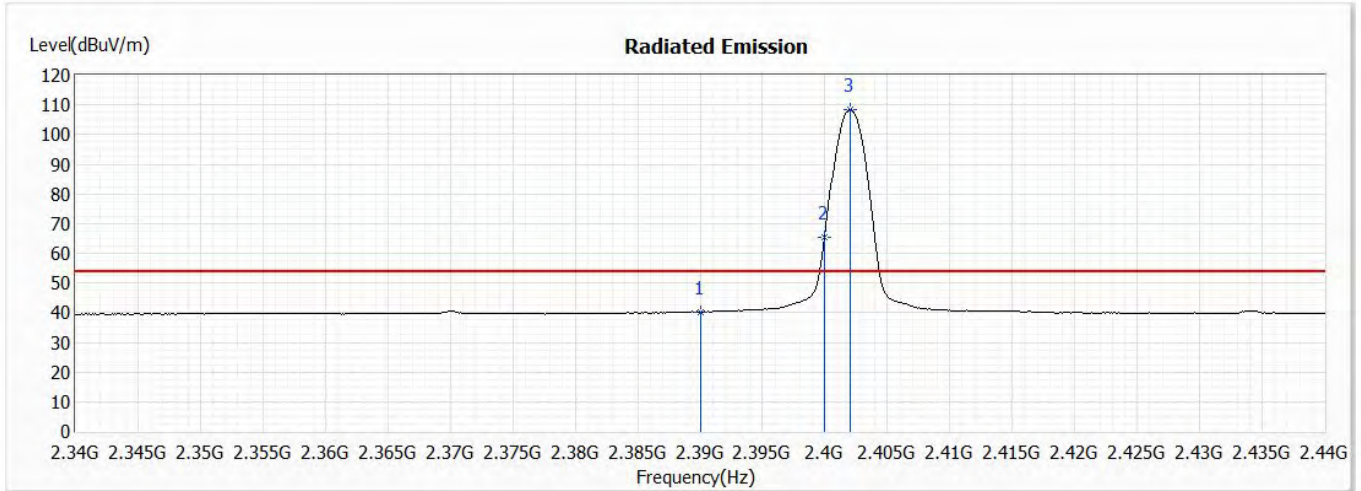
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2386.800	53.58	74.00	-20.42	40.42	13.16	PK
2	2390.000	51.35	74.00	-22.65	38.19	13.16	PK
3	2400.000	73.16	--	--	59.98	13.18	PK
4	2401.800	103.05	--	--	89.87	13.18	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



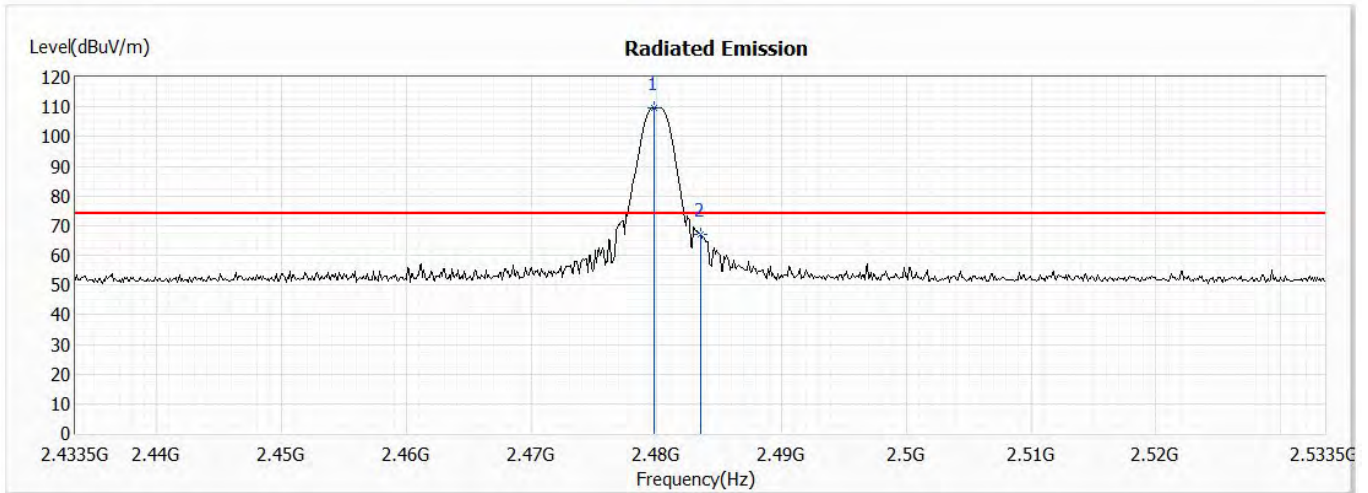
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	40.25	54.00	-13.75	27.09	13.16	AV
2	2400.000	65.51	--	--	52.33	13.18	AV
3	2402.000	108.30	--	--	95.12	13.18	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



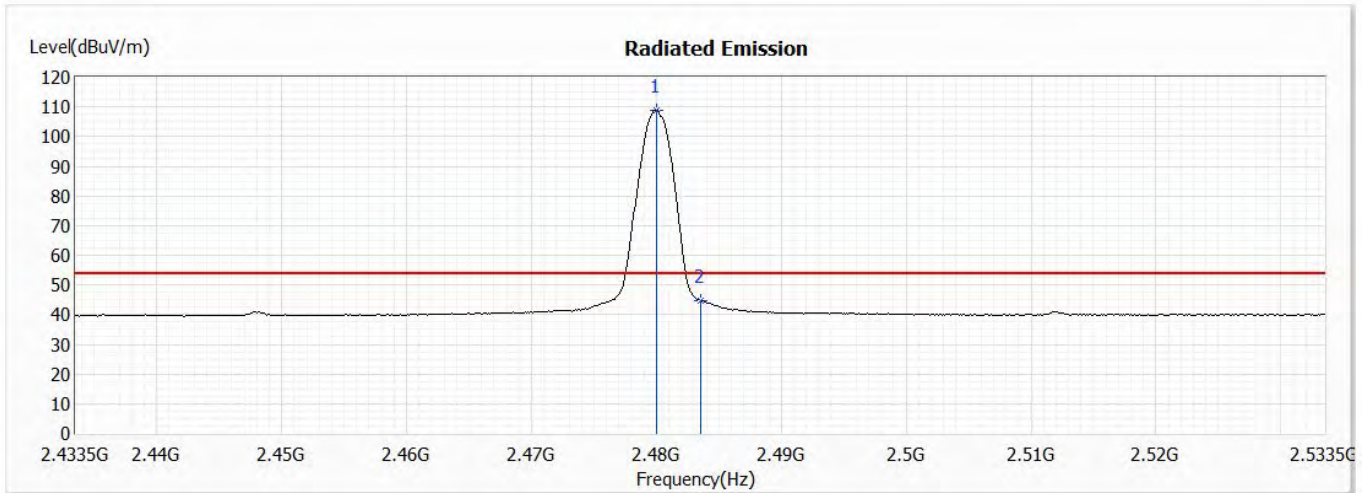
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.800	109.68	--	--	96.49	13.19	PK
2	2483.500	66.92	74.00	-7.08	53.73	13.19	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Horizontal



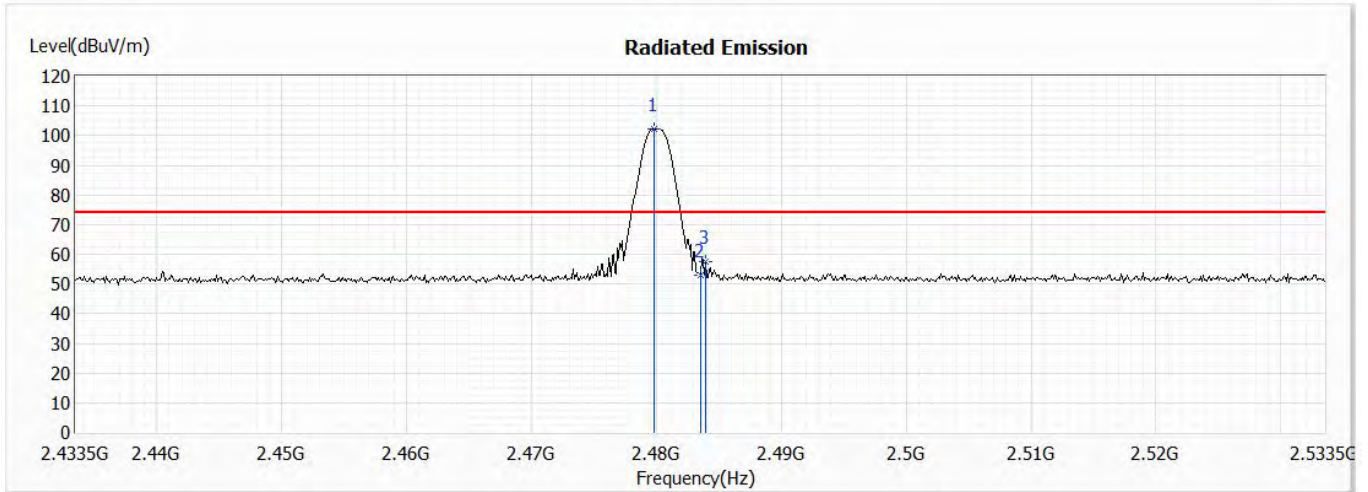
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	108.99	--	--	95.80	13.19	AV
2	2483.500	44.79	54.00	-9.21	31.60	13.19	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



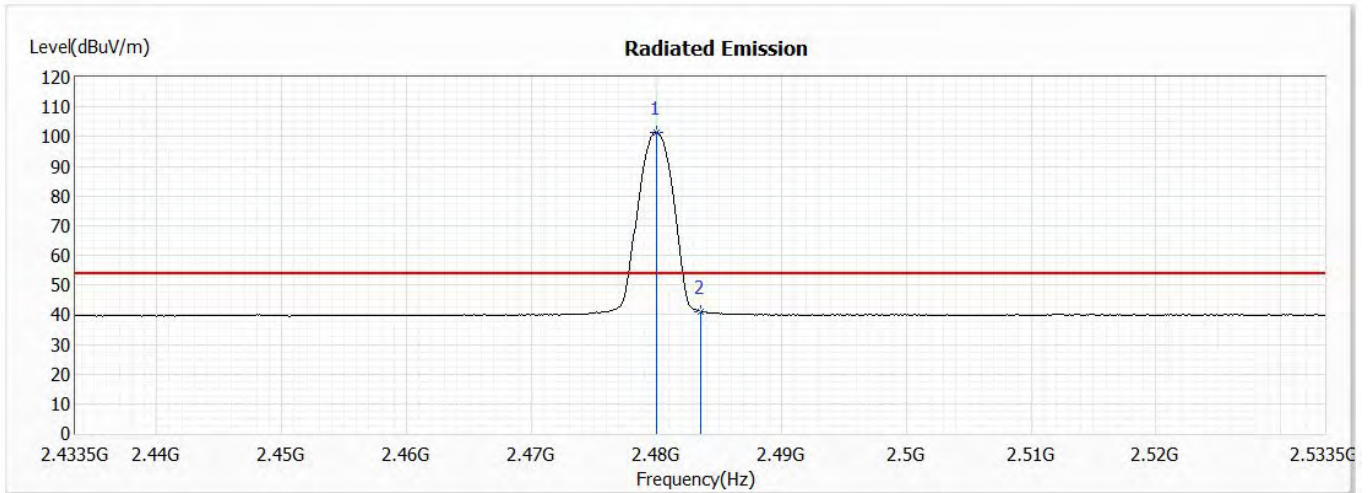
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.800	102.19	--	--	89.00	13.19	PK
2	2483.500	52.91	74.00	-21.09	39.72	13.19	PK
3	2483.900	57.45	74.00	-16.55	44.26	13.19	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (PRO variant -OTE140R)
 Test Date : 2021/05/28

Vertical



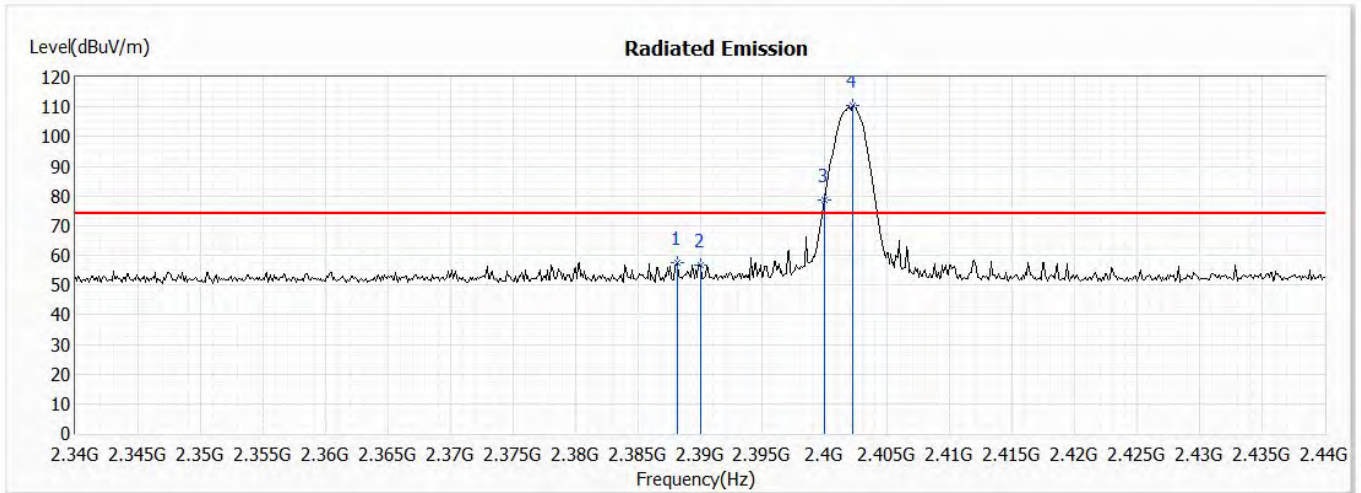
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	101.48	--	--	88.29	13.19	AV
2	2483.500	40.96	54.00	-13.04	27.77	13.19	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



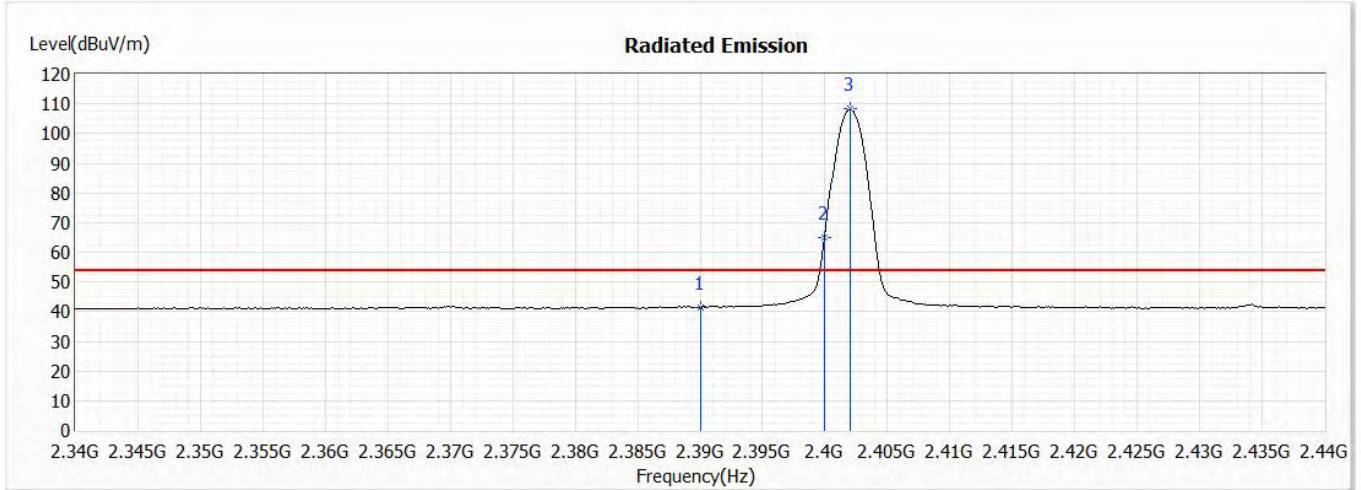
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2388.200	57.35	74.00	-16.65	44.16	13.19	PK
2	2390.000	56.53	74.00	-17.47	43.34	13.19	PK
3	2400.000	78.76	74.00	4.76	65.56	13.20	PK
4	2402.200	110.42	74.00	36.42	97.22	13.20	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



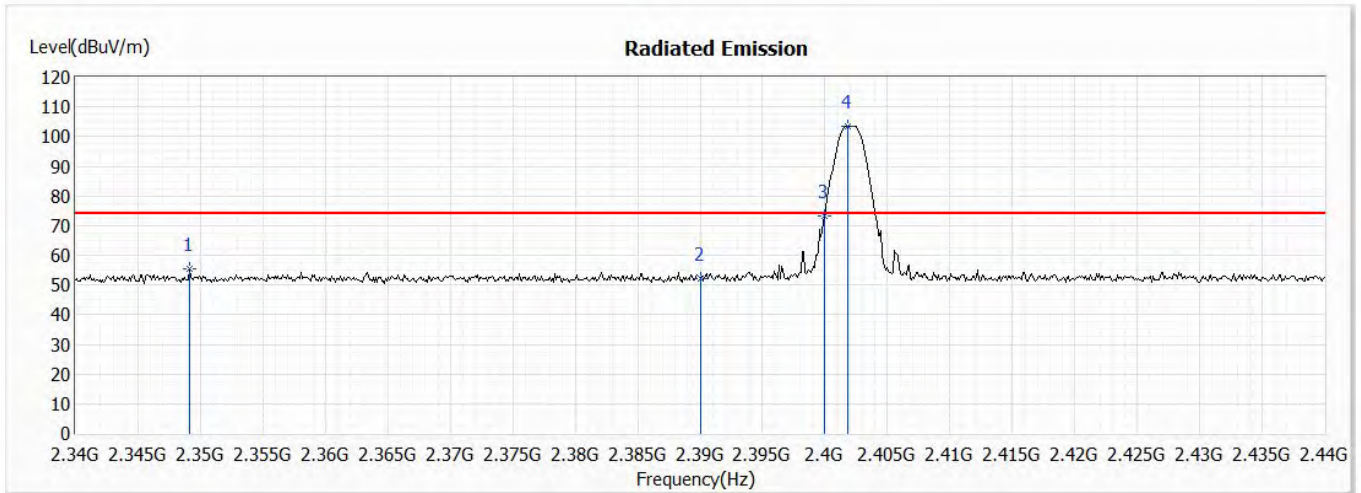
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	41.47	54.00	-12.53	28.28	13.19	AV
2	2400.000	64.82	54.00	10.82	51.62	13.20	AV
3	2402.000	108.21	54.00	54.21	95.01	13.20	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



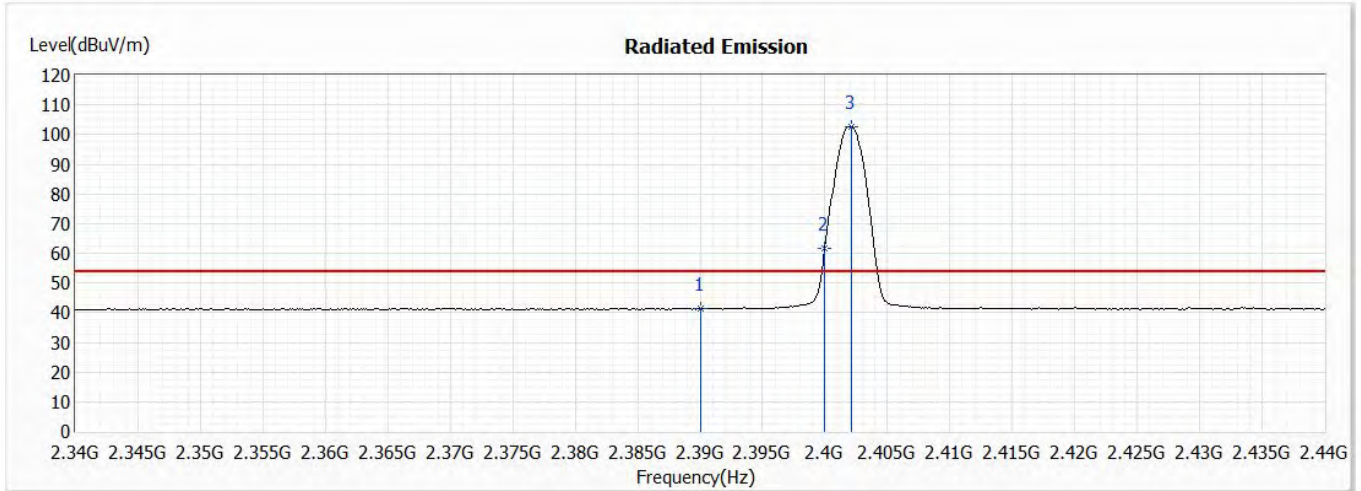
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2349.100	55.63	74.00	-18.37	42.50	13.13	PK
2	2390.000	52.17	74.00	-21.83	38.98	13.19	PK
3	2400.000	73.36	74.00	-0.64	60.16	13.20	PK
4	2401.800	103.60	74.00	29.60	90.40	13.20	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2402MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



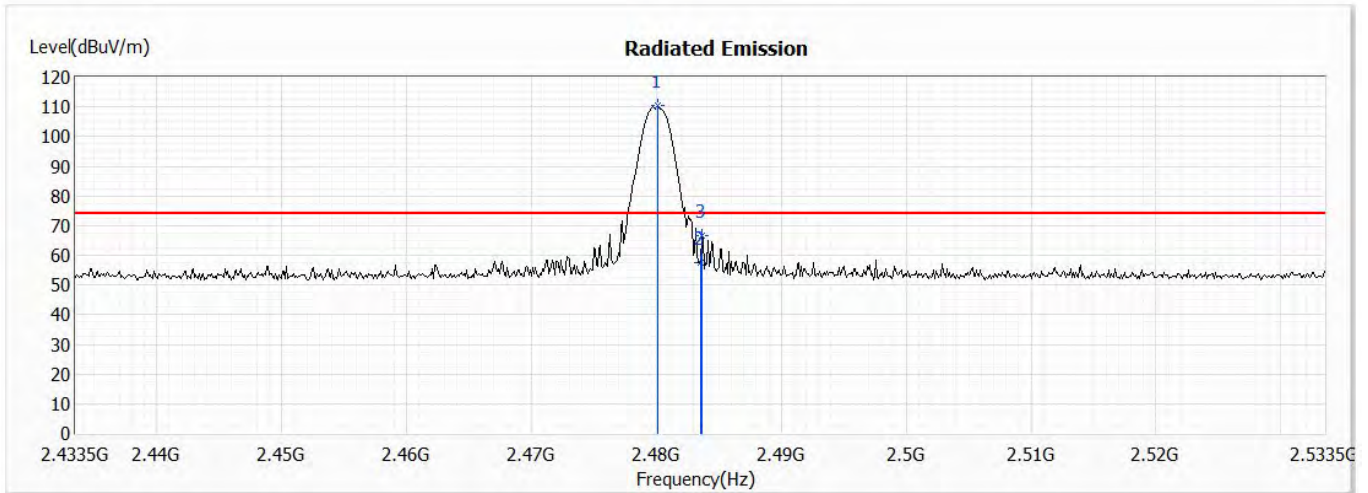
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2390.000	41.31	54.00	-12.69	28.12	13.19	AV
2	2400.000	61.78	54.00	7.78	48.58	13.20	AV
3	2402.100	102.76	54.00	48.76	89.56	13.20	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



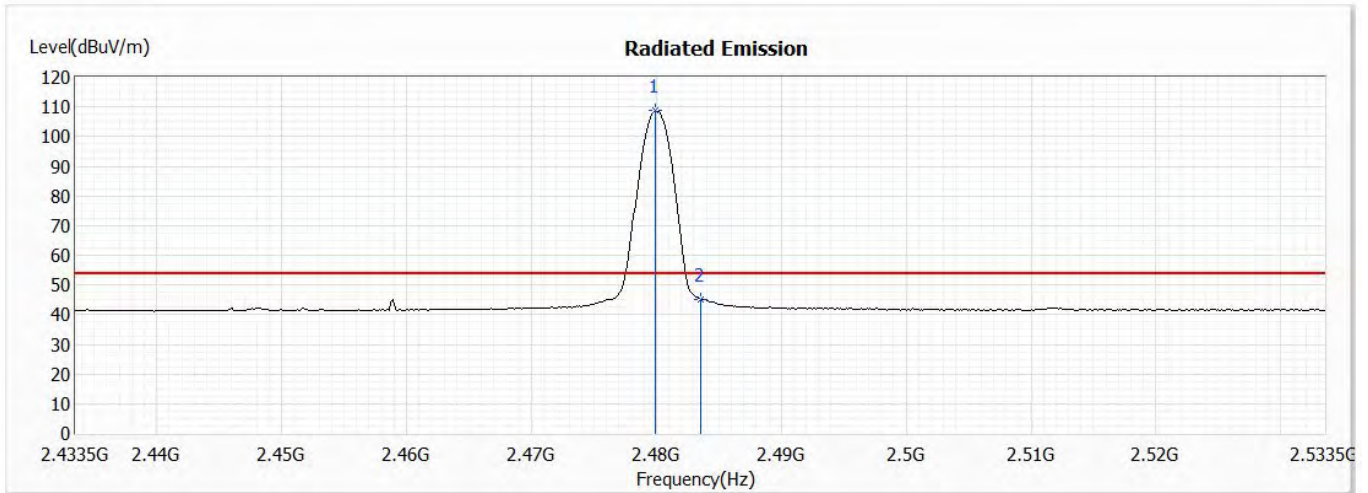
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.100	110.46	74.00	36.46	97.25	13.21	PK
2	2483.500	57.60	74.00	-16.40	44.39	13.21	PK
3	2483.600	66.47	74.00	-7.53	53.26	13.21	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Horizontal



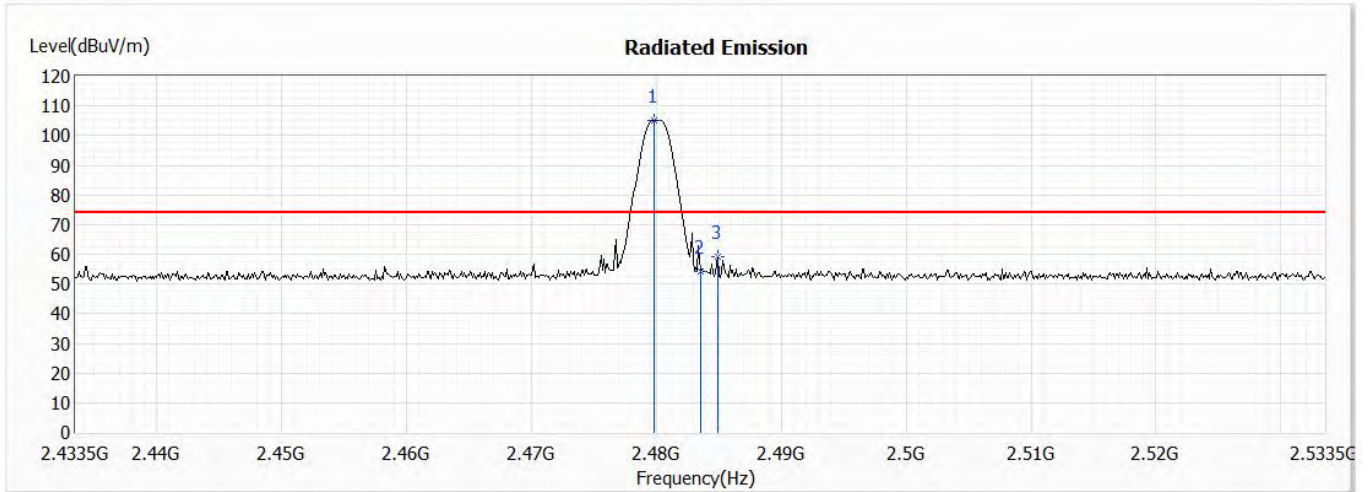
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.900	108.68	54.00	54.68	95.47	13.21	AV
2	2483.500	45.28	54.00	-8.72	32.07	13.21	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



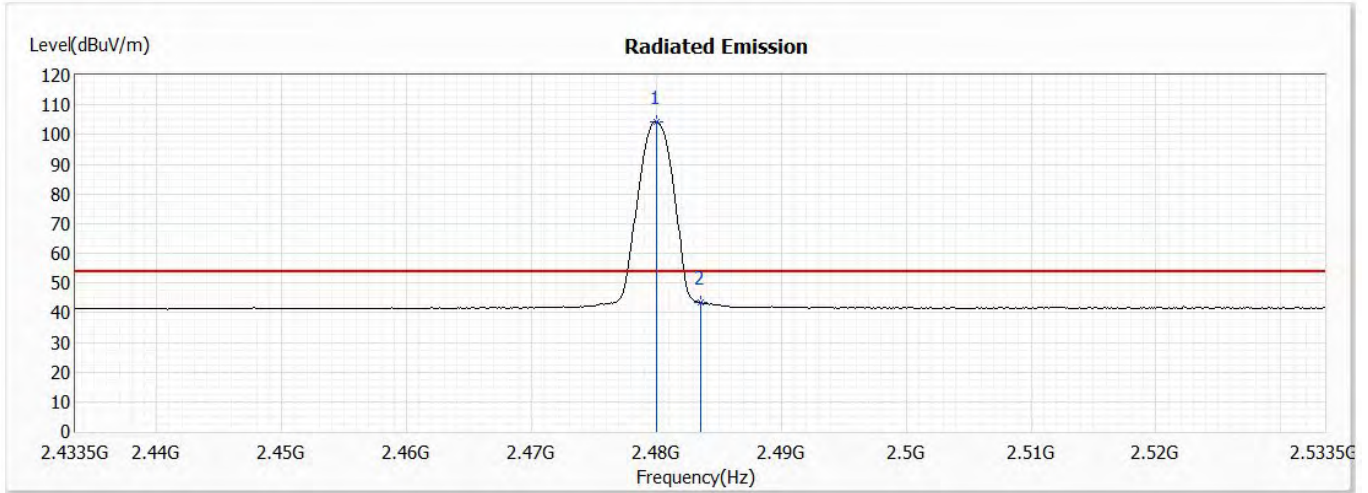
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2479.800	105.10	74.00	31.10	91.89	13.21	PK
2	2483.500	54.37	74.00	-19.63	41.16	13.21	PK
3	2484.900	59.22	74.00	-14.78	46.01	13.21	PK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Bluetooth Headset
 Test Item : Band Edge
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (2480MHz) (Active variant -OTE140R)
 Test Date : 2021/07/27

Vertical



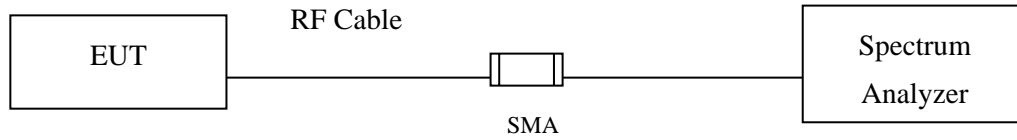
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	104.46	54.00	50.46	91.25	13.21	AV
2	2483.500	43.38	54.00	-10.62	30.17	13.21	AV

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Measurement Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection.

7. 6dB Bandwidth

7.1. Test Setup



7.2. Limits

The minimum bandwidth shall be at least 500 kHz.

7.3. Test Procedure

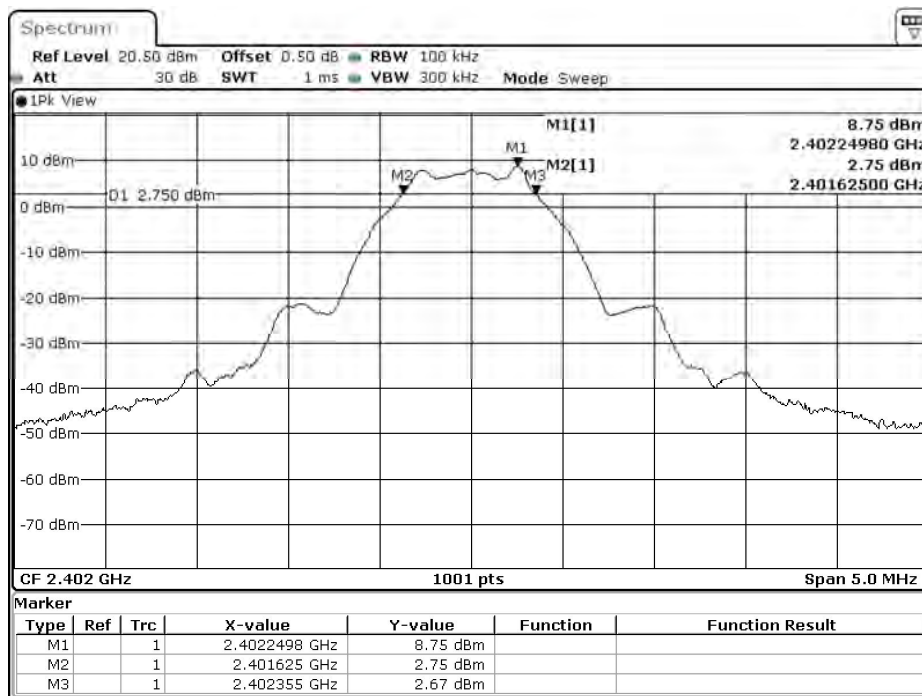
The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 11.8 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Result of 6dB Bandwidth

Product : Bluetooth Headset
 Test Item : 6dB Bandwidth Data
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140L)
 Test Date : 2021/05/18

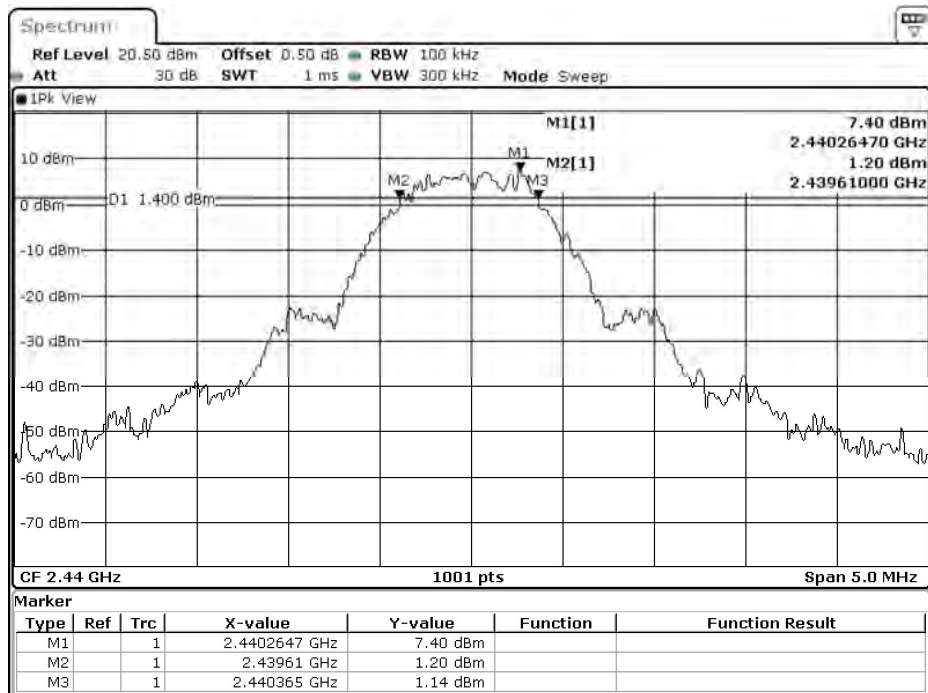
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	730	>500	Pass
19	2440	755	>500	Pass
39	2480	725	>500	Pass

Figure Channel 00:



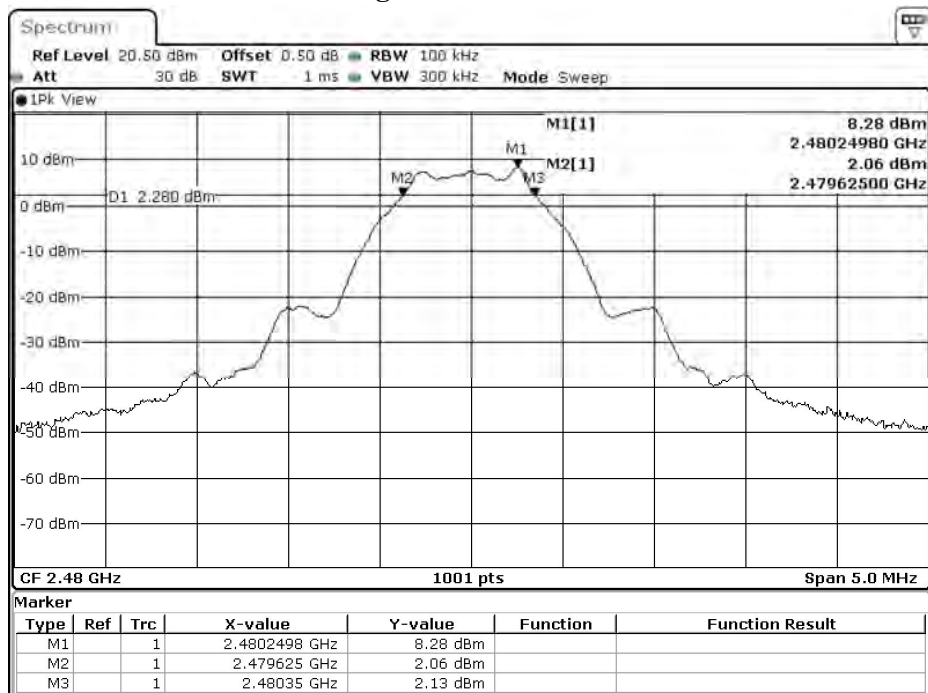
Date: 18.MAY.2021 00:46:55

Figure Channel 19:



Date: 18.MAY.2021 00:52:57

Figure Channel 39:

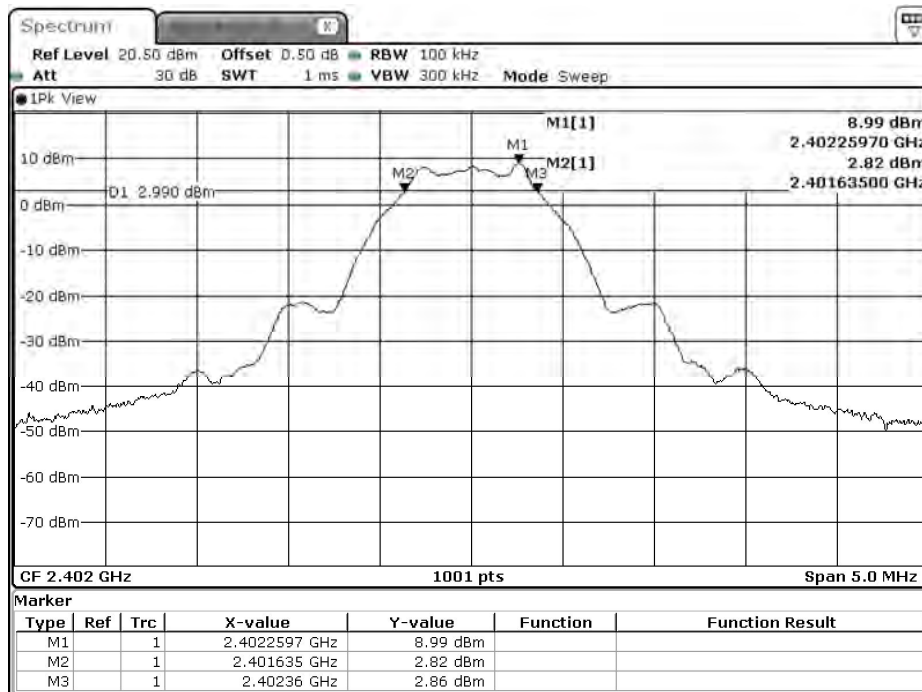


Date: 18.MAY.2021 00:57:34

Product : Bluetooth Headset
 Test Item : 6dB Bandwidth Data
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140R)
 Test Date : 2021/05/18

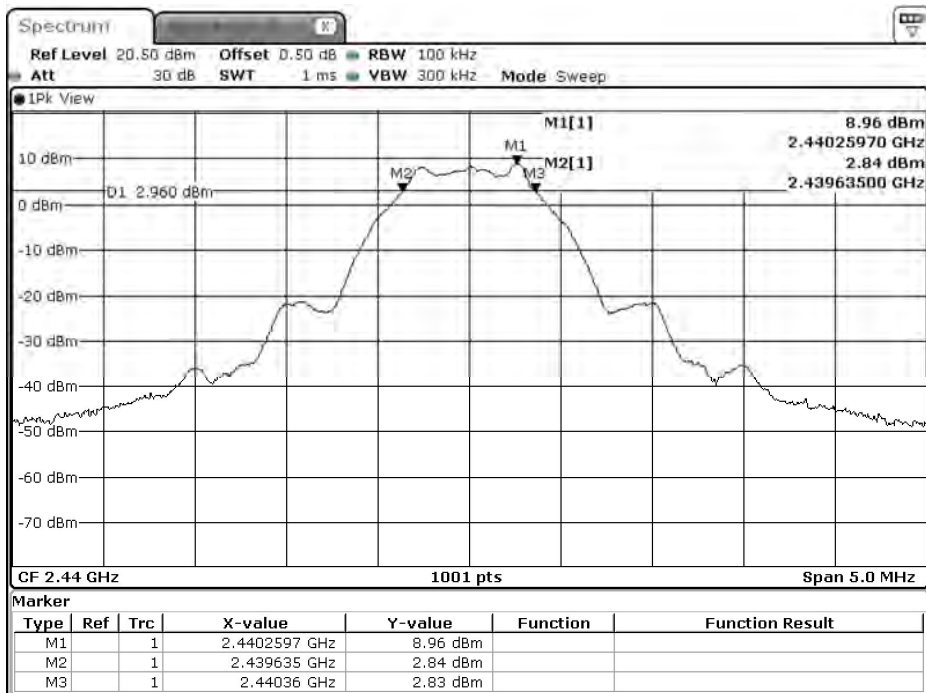
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
00	2402	725	>500	Pass
19	2440	725	>500	Pass
39	2480	725	>500	Pass

Figure Channel 00:



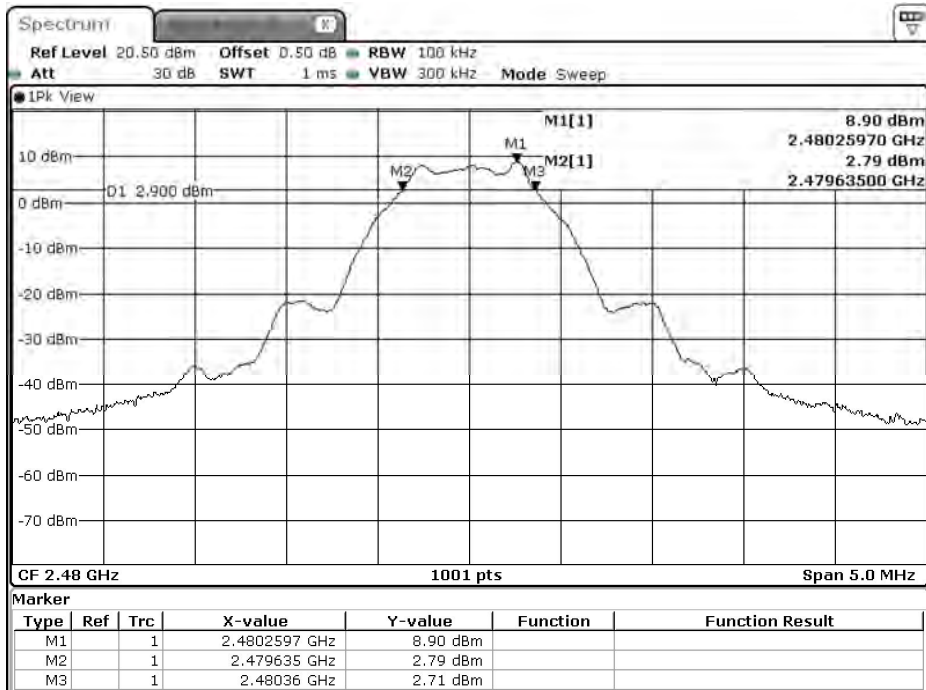
Date: 19.MAY.2021 00:04:21

Figure Channel 19:



Date: 19.MAY.2021 00:08:57

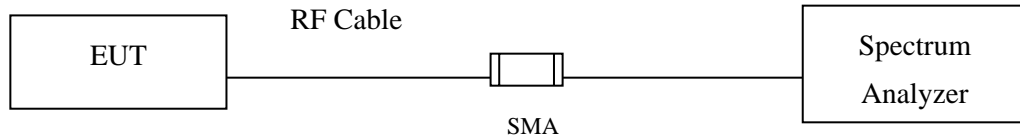
Figure Channel 39:



Date: 19.MAY.2021 00:13:37

8. Power Density

8.1. Test Setup



8.2. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

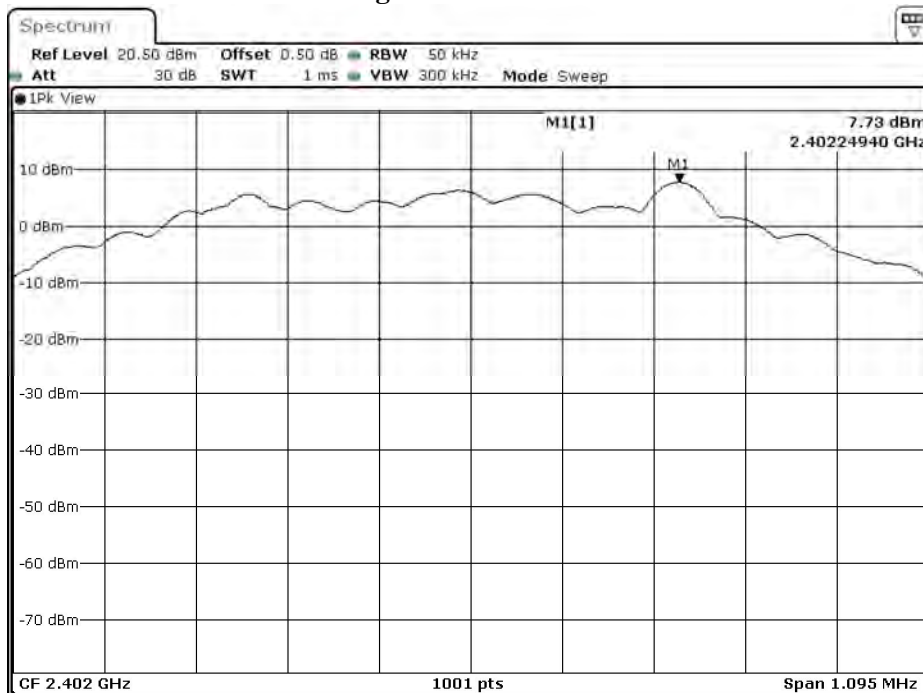
The maximum power spectral density using C63.10 Section 11.10.2 Method PKPSD (peak PSD)

8.4. Test Result of Power Density

Product : Bluetooth Headset
 Test Item : Power Density Data
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140L)
 Test Date : 2021/05/18

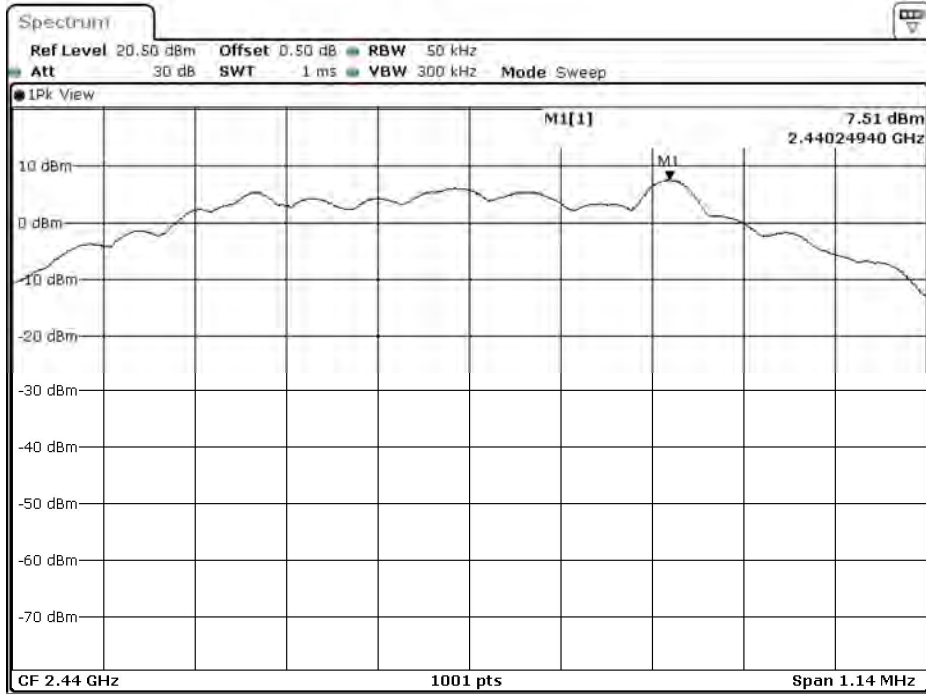
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	7.73	≤ 8dBm	Pass
19	2440	7.51	≤ 8dBm	Pass
39	2480	7.27	≤ 8dBm	Pass

Figure Channel 00:



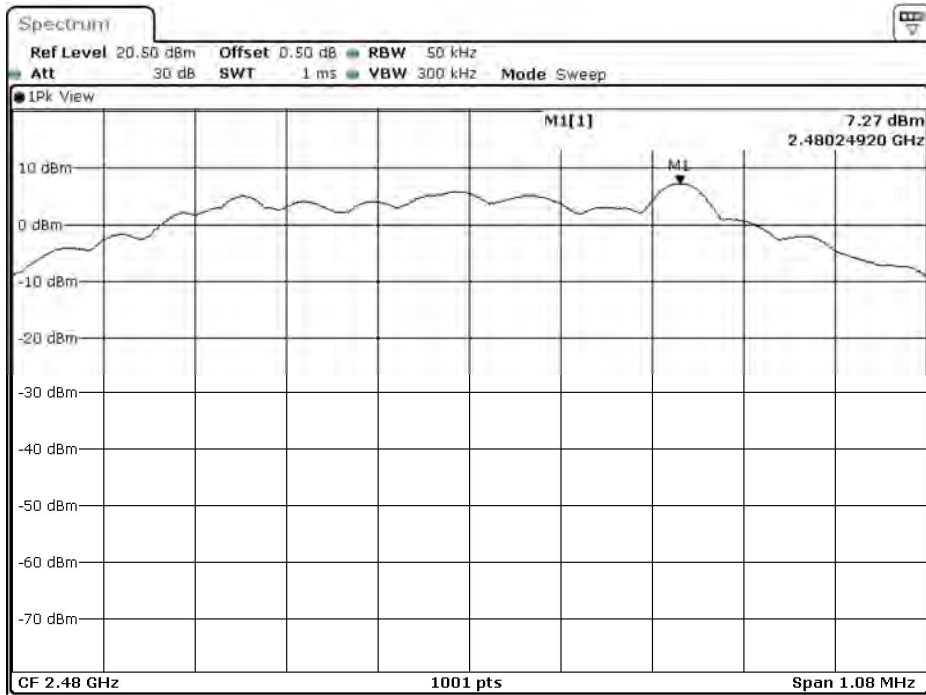
Date: 18.MAY.2021 00:48:05

Figure Channel 19:



Date: 18.MAY.2021 00:54:07

Figure Channel 39:

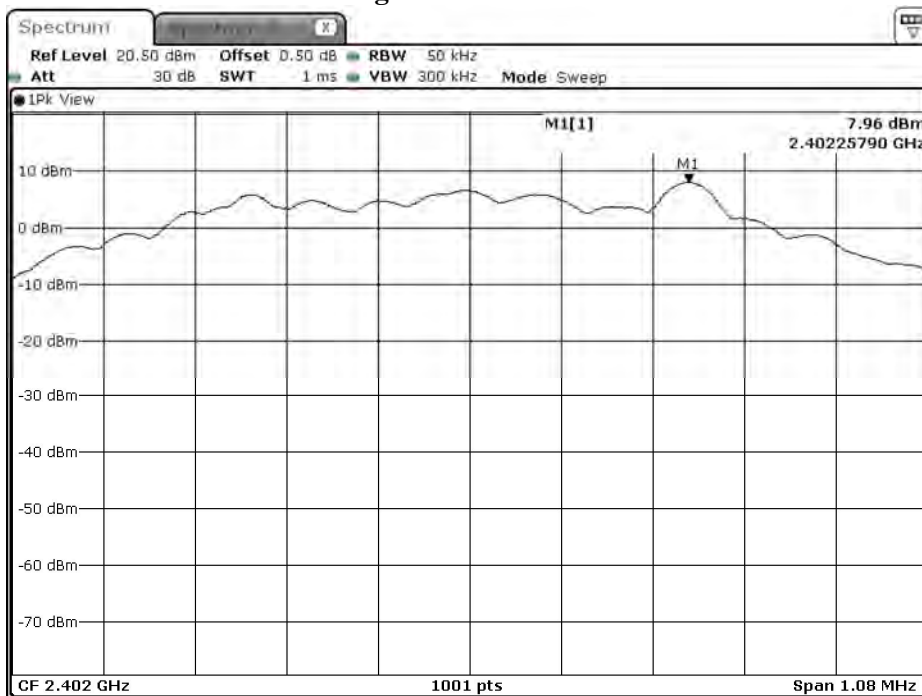


Date: 18.MAY.2021 00:58:44

Product : Bluetooth Headset
 Test Item : Power Density Data
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140R)
 Test Date : 2021/05/18

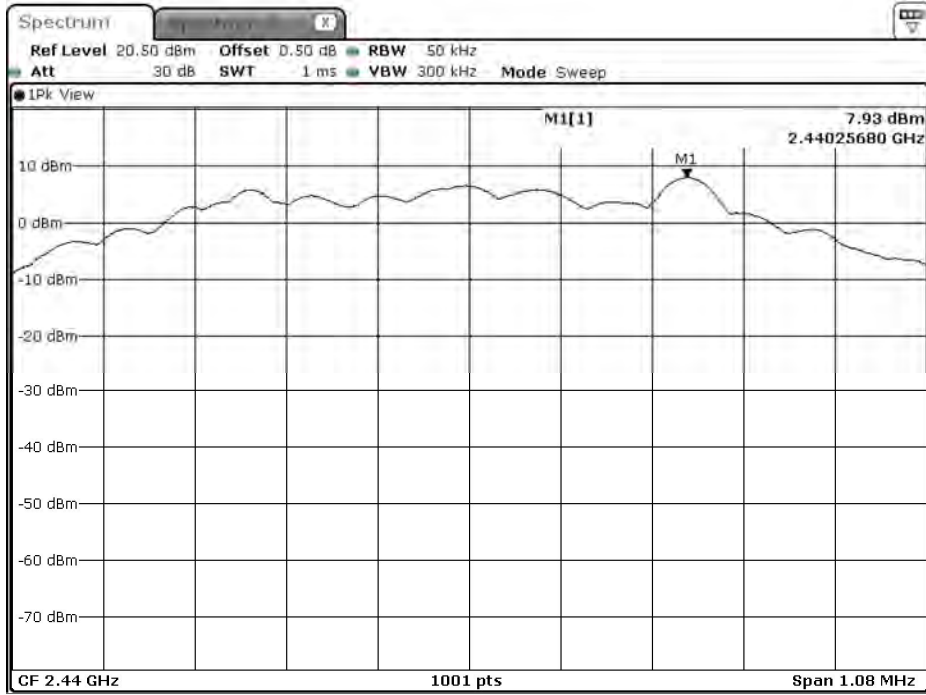
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	7.96	≤ 8dBm	Pass
19	2440	7.93	≤ 8dBm	Pass
39	2480	7.85	≤ 8dBm	Pass

Figure Channel 00:



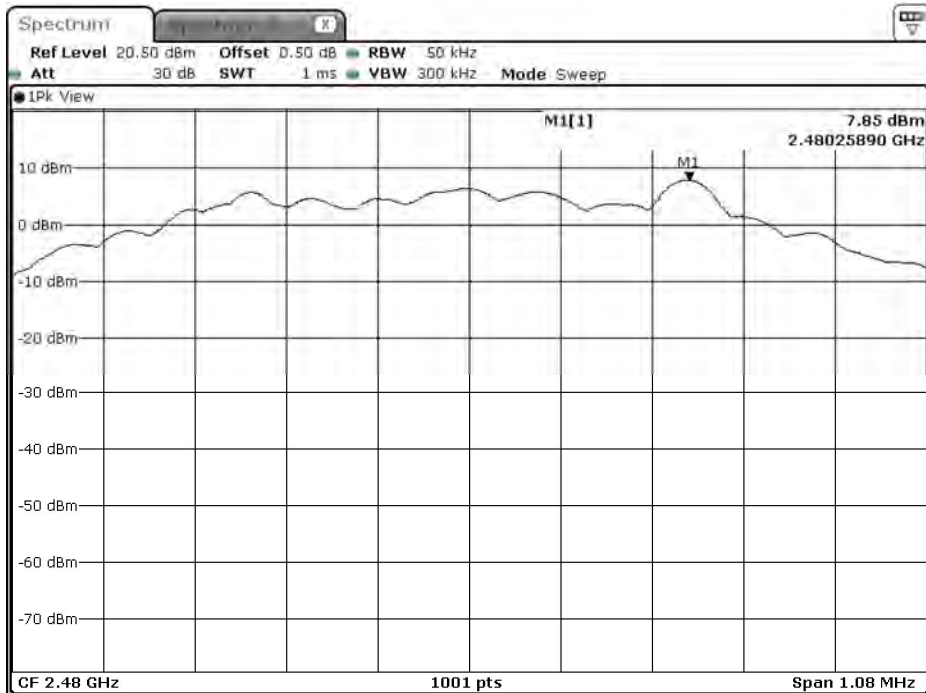
Date: 19.MAY.2021 00:05:31

Figure Channel 19:



Date: 19.MAY.2021 00:10:07

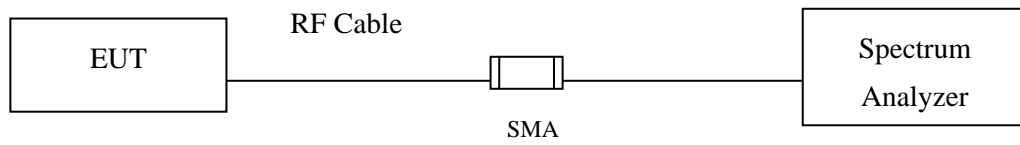
Figure Channel 39:



Date: 19.MAY.2021 00:14:47

9. Duty Cycle

9.1. Test Setup



9.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to ANSI C63.10 2013 for compliance to FCC 47CFR 15.247 requirements.

9.3. Test Result of Duty Cycle

Product : Bluetooth Headset
 Test Item : Duty Cycle
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140L)

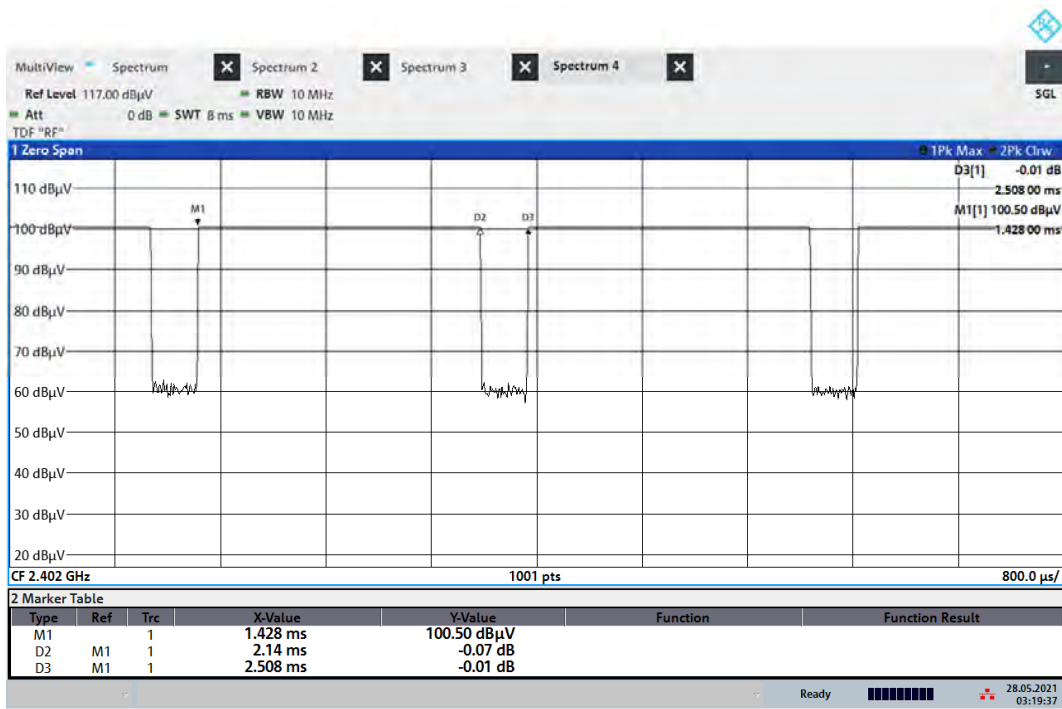
Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

$$\text{Duty Factor} = 10 \text{ Log} (1/\text{Duty Cycle})$$

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
BLE 1Mbps	2.1400	2.5080	85.33	0.69

BLE 1Mbps



03:19:37 28.05.2021

Product : Bluetooth Headset
 Test Item : Duty Cycle
 Test Mode : Mode 1: Transmit - 1Mbps-BLE (PRO variant -OTE140R)

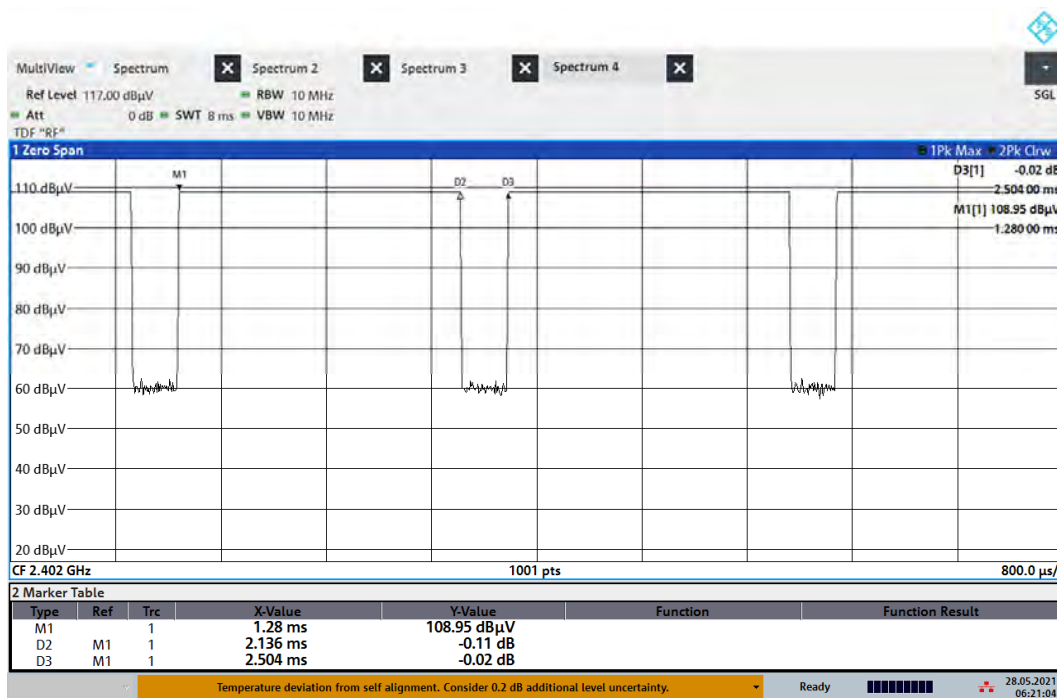
Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

$$\text{Duty Factor} = 10 \text{ Log} (1/\text{Duty Cycle})$$

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
BLE 1Mbps	2.1360	2.5040	85.30	0.69

BLE 1Mbps



06:21:05 28.05.2021

10. EMI Reduction Method During Compliance Testing

No modification was made during testing.