FCC Test Report

Application No.:	DNT2504250732R4305-05044
Applicant:	Hangzhou Yinshang Intelligent Technology Co.,Ltd
Address of Applicant:	Room E2051,2nd Floor, Building 1(South), No.368 Liuhe Road, Puyan Street, Binjiang District,Hangzhou City,Zhejiang Province
EUT Description:	Wireless Bluetooth Headphones
Model No.:	D78,D79,D80,D81,D82,D83,D84,D85,D86,D87,D89,D90,D91,D92,D93, D94,D95,D96,D97,D98,D99
FCC ID:	2BO3J-D78
Power Supply (Charging Box):	Input:DC 5V; DC 3.7V from rechargeable lithium-ion battery
Power Supply (Earphone):	DC 3.7V from rechargeable lithium-ion battery
Trade Mark:	象鼻子/DMOOSTER/GANSPEED
Standards:	47 CFR FCC Part 2, Subpart J 47 CFR Part 15, Subpart C ANSI C63.10: 2013
Date of Receipt:	2025/4/26
Date of Test:	2025/4/27 to 2025/5/7
Date of Issue:	2025/5/9
Test Result:	**PASS**

Prepared By: Wayne.Lin (Testing Engineer)

Reviewed By: Pencils.Chen (Project Engineer)

Approved By: Yeise Chan (Manager)

Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang 'an Town, Dongguan City, Guangdong P.R.China

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Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 9, 2025	Valid	Original Report

1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 3.1	PASS
20dB Emission Bandwidth	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.2	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10: 2013	Clause 3.3	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.4	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.5	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10: 2013	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10: 2013	Clause 3.8	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10: 2013	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10: 2013	Clause 3.10	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10: 2013	Clause 3.11	PASS

Note:
1. “N/A” denotes test is not applicable in this test report.

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2 General Information

2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

2.2 General Description of EUT

Manufacturer:	Hangzhou Yinshang Intelligent Technology Co.,Ltd
Address of Manufacturer:	Room E2051,2nd Floor, Building 1(South), No.368 Liuhe Road, Puyan Street, Binjiang District,Hangzhou City,Zhejiang Province
Test EUT Description:	Wireless Bluetooth Headphones
Model No.:	D78
Additional Model(s):	D79,D80,D81,D82,D83,D84,D85,D86,D87,D89,D90,D91,D92,D93,D94,D95, D96,D97,D98,D99
Chip Type:	AB5656C3
Serial number:	PR2504250732R4305
Power Supply (Charging Box):	Input:DC 5V; DC 3.7V from rechargeable lithium-ion battery
Power Supply (Earphone):	DC 3.7V from rechargeable lithium-ion battery
Trade Mark:	象鼻子/DMOOSTER/GANSPEED
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402 MHz to 2480 MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK,π/4-DQPSK,8DPSK
Sample Type:	☒ Portable Device, ☐ Module,☐ Mobile Device
Antenna Type:	☐ External, ☒ Integrated
Antenna Ports:	☒ Ant 1, ☐ Ant 2, ☐ Ant 3
Antenna Gain*:	☒ Provided by applicant
	2.7dBi
RF Cable*:	☒ Provided by applicant
	0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz);

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

2.3 Channel List

Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Remark:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

2.4 Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 ˚C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

2.5 Power Setting of Test Software

Software Name	BT_Tool_v1.1.2		
Frequency(MHz)	2402	2441	2480
GFSK Setting	4	4	4
π/4-DQPSK Setting	4	4	4
8DPSK Setting	4	4	4

2.6 Description of Support Units

The EUT has been tested independent unit.

2.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

• FCC, USA

Designation Number: CN1348

• A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

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2.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	20dB Emission Bandwidth	±0.0196%
2	Carrier Frequency Separation	±1.9%
3	Number of Hopping Channel	±1.9%
4	Time of Occupancy	±0.028%
5	Max Peak Conducted Output Power	±0.743 dB
6	Band-edge Spurious Emission	±1.328 dB
7	Conducted RF Spurious Emission	9KHz-1GHz:±0.746dB 1GHz-26GHz:±1.328dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)

2.9 Equipment List

For Connect EUT Antenna Terminal Test					
Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2024-10-23	2025-10-22
Signal Generator	Keysight	N5182B	MY57300617	2024-10-23	2025-10-22
Power supply	Keysight	E3640A	ZB2022656	2024-10-23	2025-10-22
Radio Communication Tester	R&S	CMW500	105082	2024-10-23	2025-10-22
Spectrum Analyzer	Aglient	N9010A	MY52221458	2024-10-23	2025-10-22
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2024-10-23	2025-10-22
Pulse Power Sensor	Anritsu	MA2411B	1911397	2024-10-23	2025-10-22
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2024-10-23	2025-10-22

Test Equipment for Conducted Emission					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESCI3	101152	2024-10-23	2025-10-22
LISN	R&S	ENV216	102874	2024-10-23	2025-10-22
ISN	R&S	ENY81-CA6	1309.8590.03	2024-10-23	2025-10-22

Test Equipment for Radiated Emission(30MHz-1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2024-10-23	2025-10-22
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2024-10-23	2025-10-22
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2022-11-28	2025-11-27
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2024-10-23	2025-10-22

Test Equipment for Radiated Emission(Above 1000MHz)					
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Frequency analyser	Keysight	N9010A	MY52221458	2024-10-23	2025-10-22
RF Cable	ETS-LINDGREN	RFC-NMS-100-NMS-350-IN	NA	2024-10-23	2025-10-22
Horn Antenna	ETS-LINDGREN	3117	00252567	2022-11-28	2025-11-27
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2022-11-28	2025-11-27
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2024-10-23	2025-10-22
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2024-10-23	2025-10-22

2.10 Assistant equipment used for test

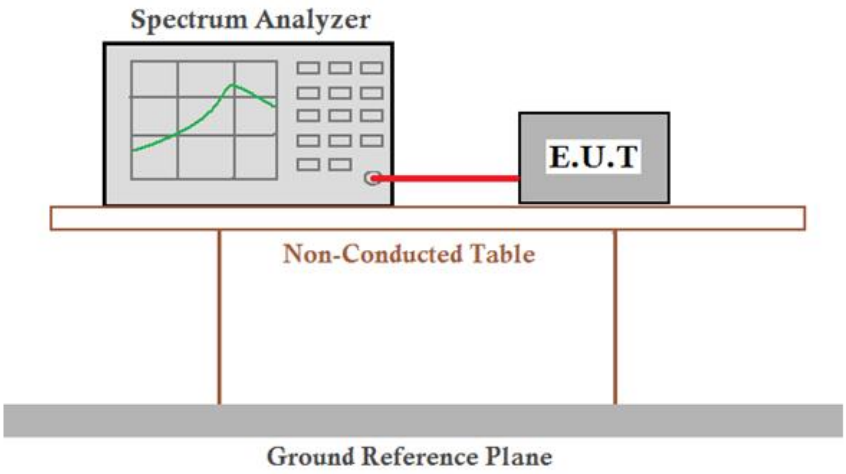
Code	Equipment	Manufacturer	Model No.	Equipment No.
1	Computer	acer	N22C8	EMC notebook01
2	Adapter	HUAWEI	HW-100225C00	NA

3 Test results and Measurement Data

3.1 Antenna Requirement

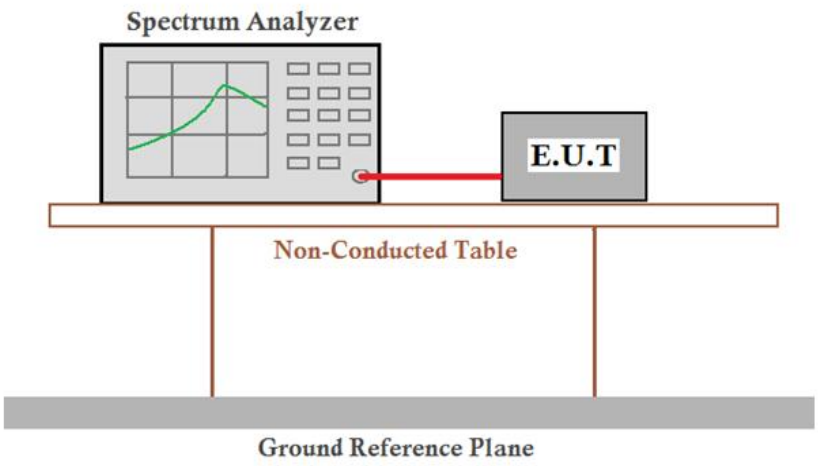
Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is **2.7**dBi.	

3.2 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 Section 7.8.7
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	NA
Test Results:	Pass

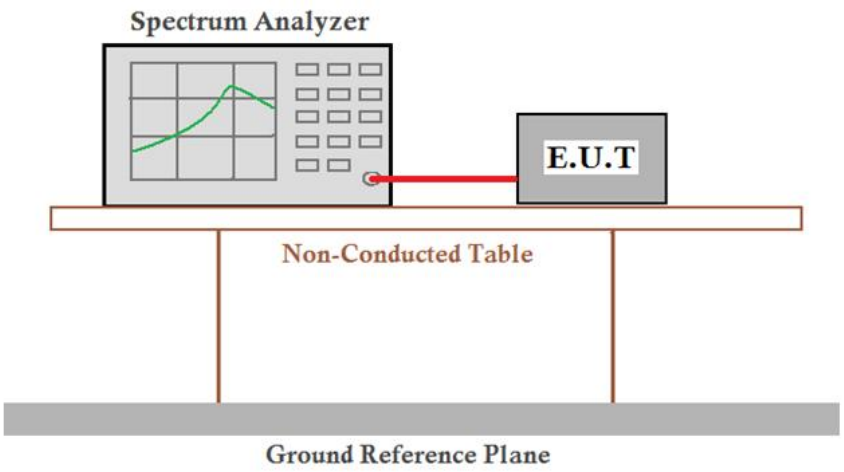
The detailed test data see: **Appendix A**

3.3 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10: 2013 Section 7.8.5
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	(20.97dBm) 125mW
Test Results:	Pass

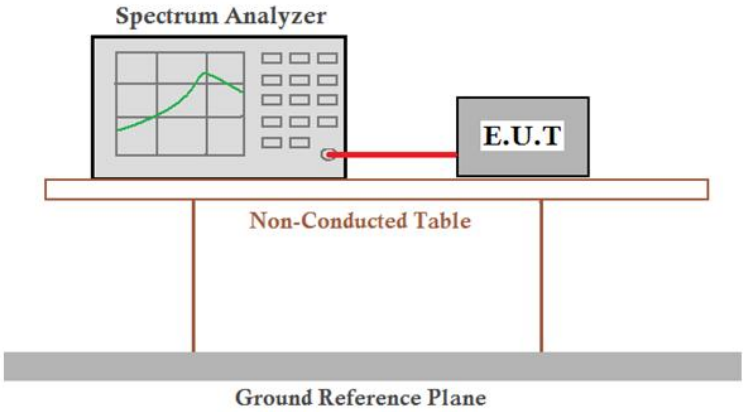
The detailed test data see: **Appendix B**

3.4 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 Section 7.8.2
Test Setup:	
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Test Results:	Pass

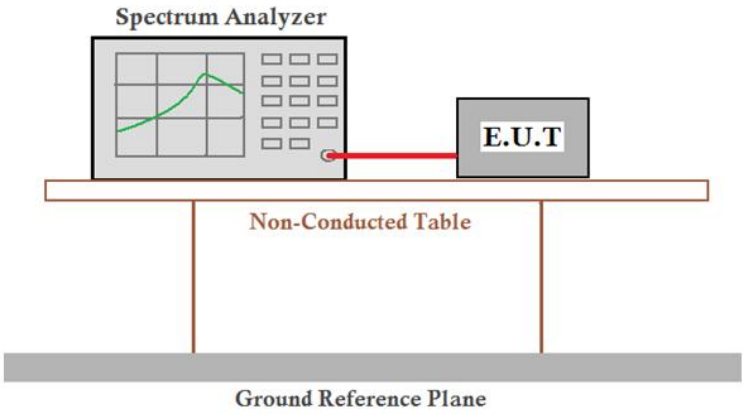
The detailed test data see: **Appendix C**

3.5 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 Section 7.8.4
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass

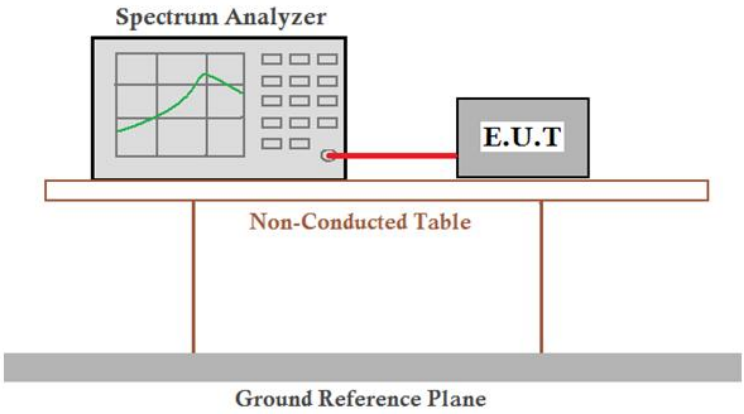
The detailed test data see: **Appendix D**

3.6 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10: 2013 Section 7.8.3
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Test Mode:	Hopping transmitting with all kind of modulation
Limit:	At least 15 channels
Test Results:	Pass

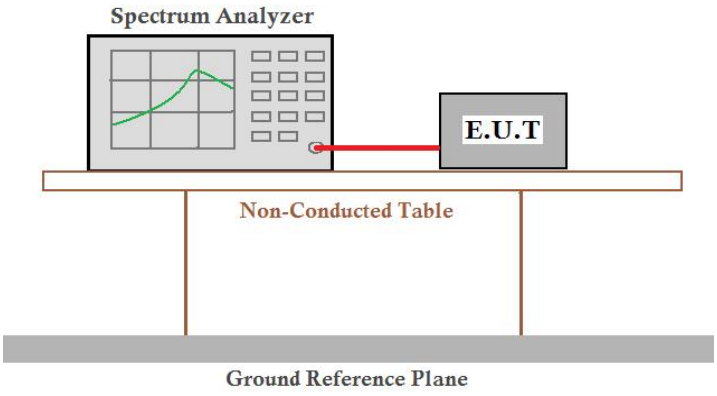
The detailed test data see: **Appendix E**

3.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 7.8.6
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix F**

3.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

The detailed test data see: **Appendix G**

3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz (DC⩾0.98) ⩾1/T (DC<0.98)	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:

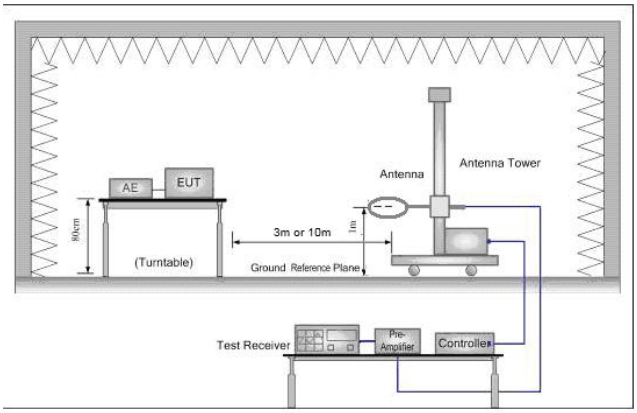


Figure 1. Below 30MHz

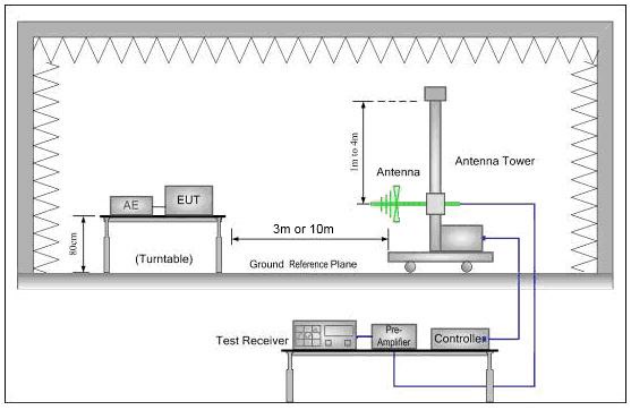


Figure 2. 30MHz to 1GHz

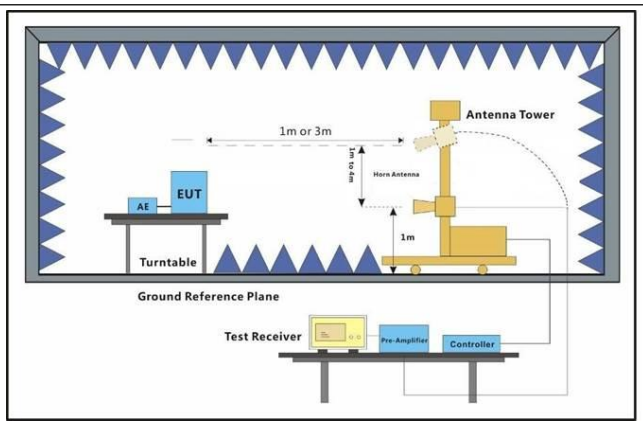


Figure 3. Above 1 GHz

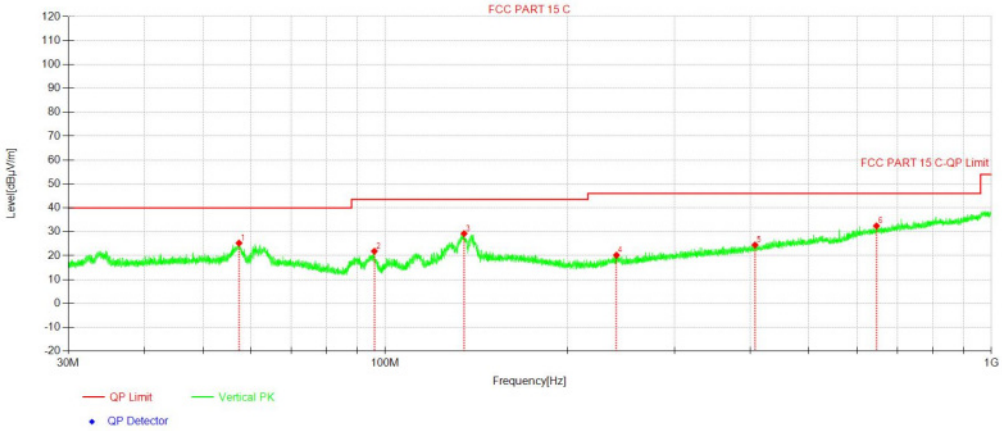
Test Procedure:

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

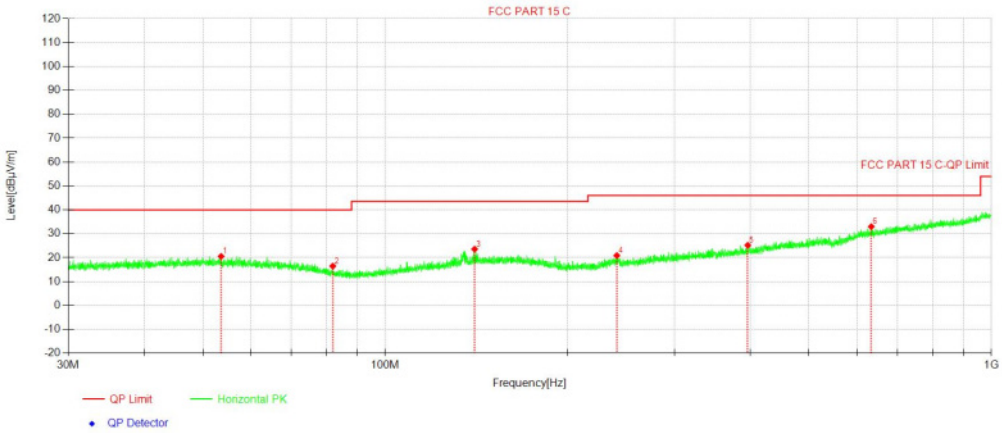
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ⩾ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ⩾ 1/T, when duty cycle is less than 98 percent where T is 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge+Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of All modulation type.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

Test data

For 30-1000MHz



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	57.39	33.77	-8.50	25.27	40.00	14.73	100	23	QP	Vertical
2	95.96	35.06	-13.22	21.84	43.50	21.66	100	308	QP	Vertical
3	134.94	38.21	-8.97	29.24	43.50	14.26	100	355	QP	Vertical
4	240.75	29.44	-9.23	20.21	46.00	25.79	100	108	QP	Vertical
5	407.51	28.66	-4.19	24.47	46.00	21.53	100	262	QP	Vertical
6	646.25	31.03	1.43	32.46	46.00	13.54	100	1	QP	Vertical

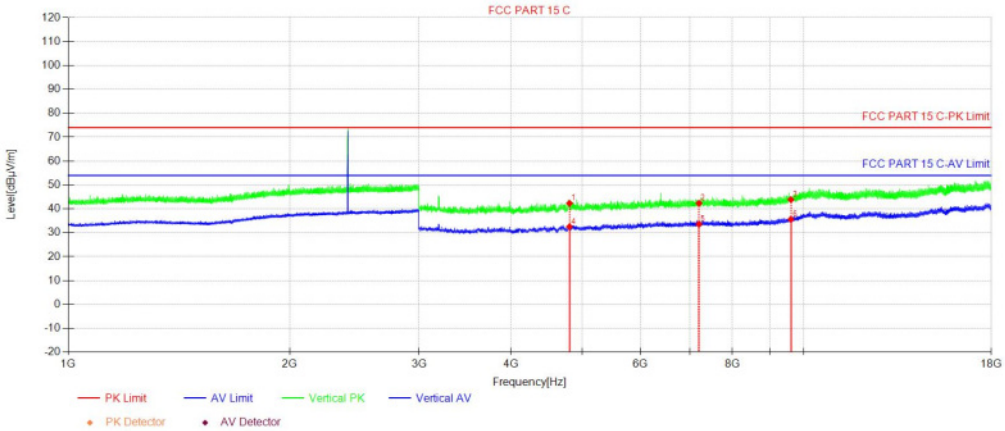


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	53.62	28.73	-8.18	20.55	40.00	19.45	100	210	QP	Horizontal
2	81.96	29.49	-13.03	16.46	40.00	23.54	100	295	QP	Horizontal
3	140.44	32.00	-8.45	23.55	43.50	19.95	100	0	QP	Horizontal
4	241.08	30.09	-9.21	20.88	46.00	25.12	100	360	QP	Horizontal
5	396.38	29.57	-4.38	25.19	46.00	20.81	100	131	QP	Horizontal
6	633.69	31.78	1.20	32.98	46.00	13.02	100	66	QP	Horizontal

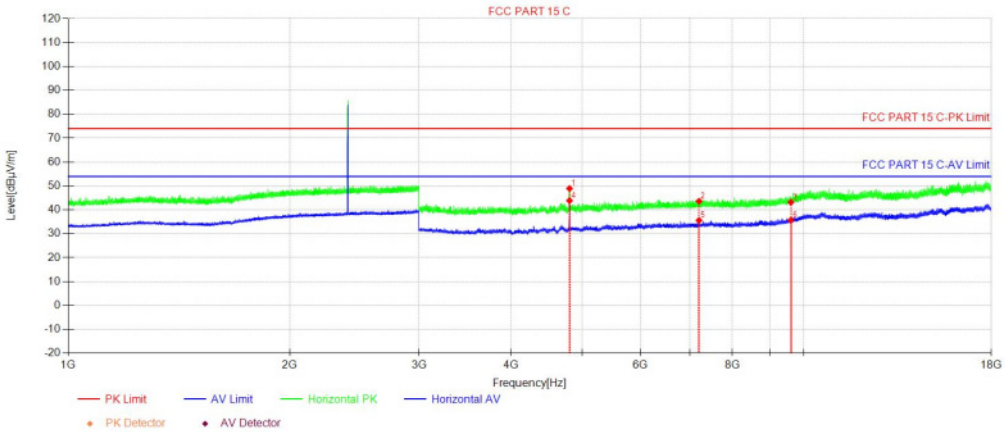
For above 1GHz

Left Earphone

DH5 2402MHz

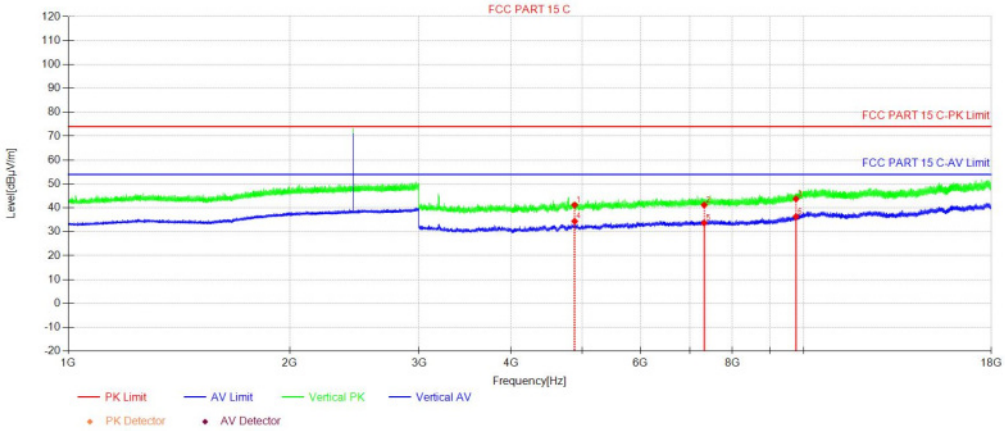


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4804.59	46.95	-4.61	42.34	74.00	31.66	150	268	Peak	Vertical
2	7206.21	44.11	-1.76	42.35	74.00	31.65	150	357	Peak	Vertical
3	9608.58	43.00	0.88	43.88	74.00	30.12	150	357	Peak	Vertical
4	4804.59	37.15	-4.61	32.54	54.00	21.46	150	268	AV	Vertical
5	7206.21	35.38	-1.76	33.62	54.00	20.38	150	2	AV	Vertical
6	9608.58	34.72	0.88	35.60	54.00	18.40	150	71	AV	Vertical

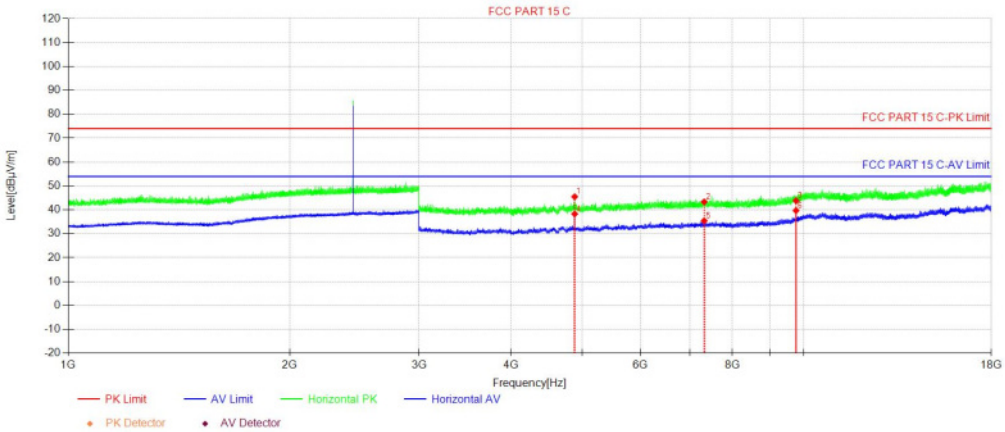


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4804.59	53.54	-4.61	48.93	74.00	25.07	150	111	Peak	Horizon
2	7206.21	45.37	-1.76	43.61	74.00	30.39	150	111	Peak	Horizon
3	9608.58	42.30	0.88	43.18	74.00	30.82	150	130	Peak	Horizon
4	4804.59	48.48	-4.61	43.87	54.00	10.13	150	130	AV	Horizon
5	7206.21	37.34	-1.76	35.58	54.00	18.42	150	217	AV	Horizon
6	9608.58	34.80	0.88	35.68	54.00	18.32	150	111	AV	Horizon

DH5 2441MHz

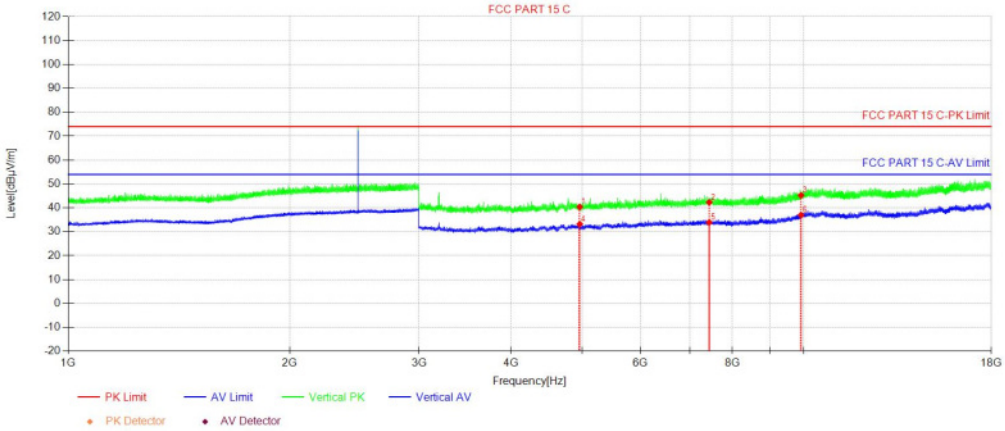


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4882.59	45.90	-4.72	41.18	74.00	32.82	150	251	Peak	Vertical
2	7323.22	42.68	-1.49	41.19	74.00	32.81	150	215	Peak	Vertical
3	9764.59	42.11	1.64	43.75	74.00	30.25	150	305	Peak	Vertical
4	4882.59	39.10	-4.72	34.38	54.00	19.62	150	143	AV	Vertical
5	7323.22	35.14	-1.49	33.65	54.00	20.35	150	52	AV	Vertical
6	9764.59	34.67	1.64	36.31	54.00	17.69	150	178	AV	Vertical

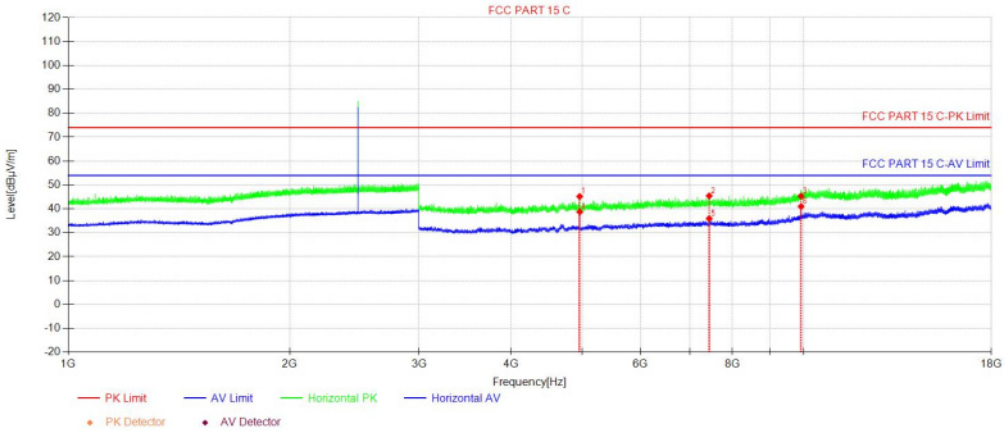


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4882.59	50.21	-4.72	45.49	74.00	28.51	150	94	Peak	Horizon
2	7323.22	44.82	-1.49	43.33	74.00	30.67	150	147	Peak	Horizon
3	9764.59	42.21	1.64	43.85	74.00	30.15	150	129	Peak	Horizon
4	4882.59	43.03	-4.72	38.31	54.00	15.69	150	112	AV	Horizon
5	7323.22	36.90	-1.49	35.41	54.00	18.59	150	147	AV	Horizon
6	9764.59	38.07	1.64	39.71	54.00	14.29	150	129	AV	Horizon

DH5 2480MHz



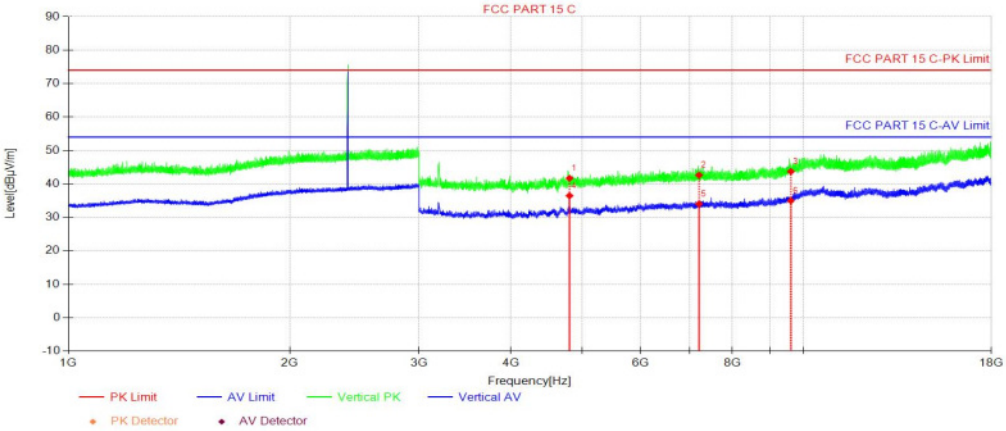
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4960.60	45.25	-4.86	40.39	74.00	33.61	150	322	Peak	Vertical
2	7440.22	43.65	-1.34	42.31	74.00	31.69	150	215	Peak	Vertical
3	9920.60	42.98	2.27	45.25	74.00	28.75	150	286	Peak	Vertical
4	4960.60	38.04	-4.86	33.18	54.00	20.82	150	252	AV	Vertical
5	7440.22	35.21	-1.34	33.87	54.00	20.13	150	56	AV	Vertical
6	9920.60	34.73	2.27	37.00	54.00	17.00	150	161	AV	Vertical



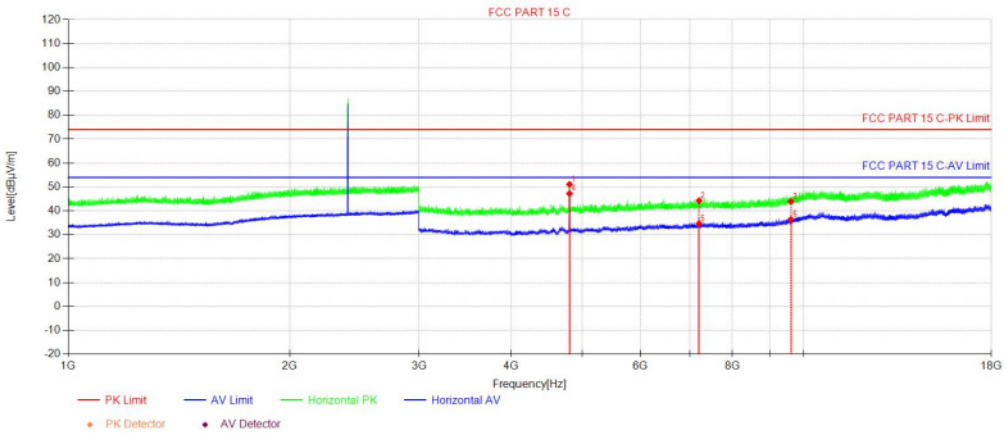
NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4959.85	50.04	-4.86	45.18	74.00	28.82	150	130	Peak	Horizon
2	7440.22	46.77	-1.34	45.43	74.00	28.57	150	110	Peak	Horizon
3	9920.60	43.05	2.27	45.32	74.00	28.68	150	164	Peak	Horizon
4	4960.60	43.59	-4.86	38.73	54.00	15.27	150	146	AV	Horizon
5	7440.22	37.25	-1.34	35.91	54.00	18.09	150	146	AV	Horizon
6	9920.60	38.72	2.27	40.99	54.00	13.01	150	164	AV	Horizon

Right Earphone

DH5 2402MHz

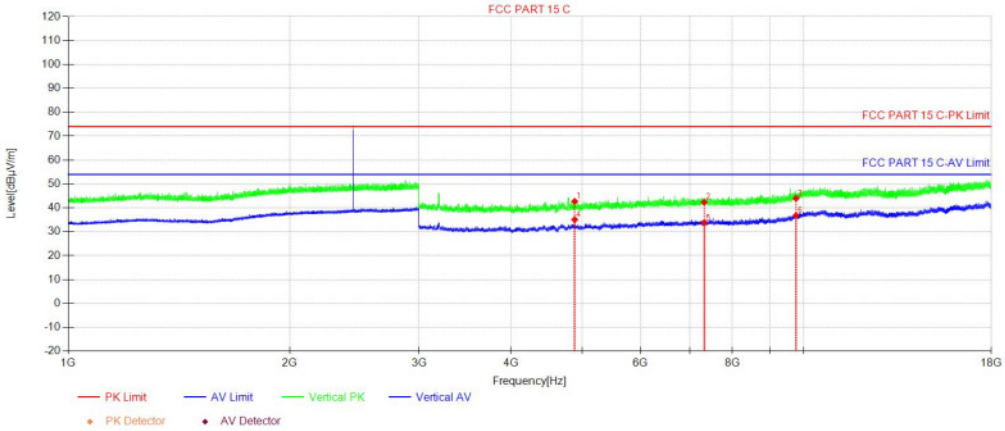


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4804.59	46.31	-4.61	41.70	74.00	32.30	150	273	Peak	Vertical
2	7206.21	44.40	-1.76	42.64	74.00	31.36	150	3	Peak	Vertical
3	9608.58	42.84	0.88	43.72	74.00	30.28	150	254	Peak	Vertical
4	4804.59	41.09	-4.61	36.48	54.00	17.52	150	74	AV	Vertical
5	7206.21	35.78	-1.76	34.02	54.00	19.98	150	360	AV	Vertical
6	9608.58	34.09	0.88	34.97	54.00	19.03	150	200	AV	Vertical

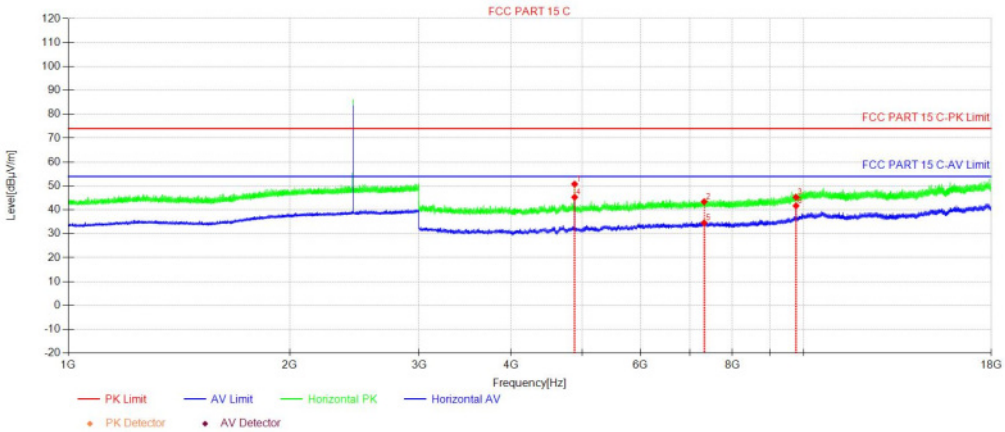


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4804.59	55.69	-4.61	51.08	74.00	22.92	150	251	Peak	Horizon
2	7206.21	46.01	-1.76	44.25	74.00	29.75	150	269	Peak	Horizon
3	9608.58	43.06	0.88	43.94	74.00	30.06	150	3	Peak	Horizon
4	4804.59	51.79	-4.61	47.18	54.00	6.82	150	287	AV	Horizon
5	7206.21	36.41	-1.76	34.65	54.00	19.35	150	304	AV	Horizon
6	9608.58	35.55	0.88	36.43	54.00	17.57	150	215	AV	Horizon

DH5 2441MHz

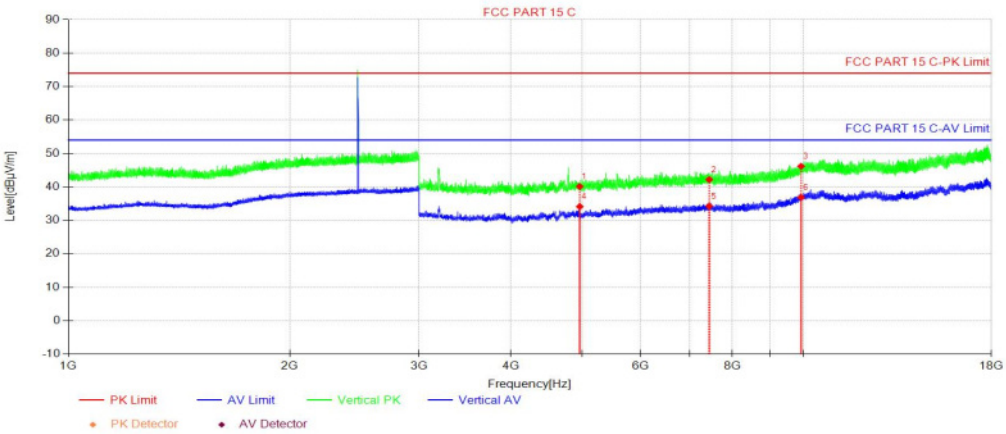


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4882.59	47.44	-4.72	42.72	74.00	31.28	150	109	Peak	Vertical
2	7323.22	43.87	-1.49	42.38	74.00	31.62	150	236	Peak	Vertical
3	9764.59	42.35	1.64	43.99	74.00	30.01	150	92	Peak	Vertical
4	4882.59	39.79	-4.72	35.07	54.00	18.93	150	219	AV	Vertical
5	7323.22	35.18	-1.49	33.69	54.00	20.31	150	147	AV	Vertical
6	9764.59	35.16	1.64	36.80	54.00	17.20	150	288	AV	Vertical

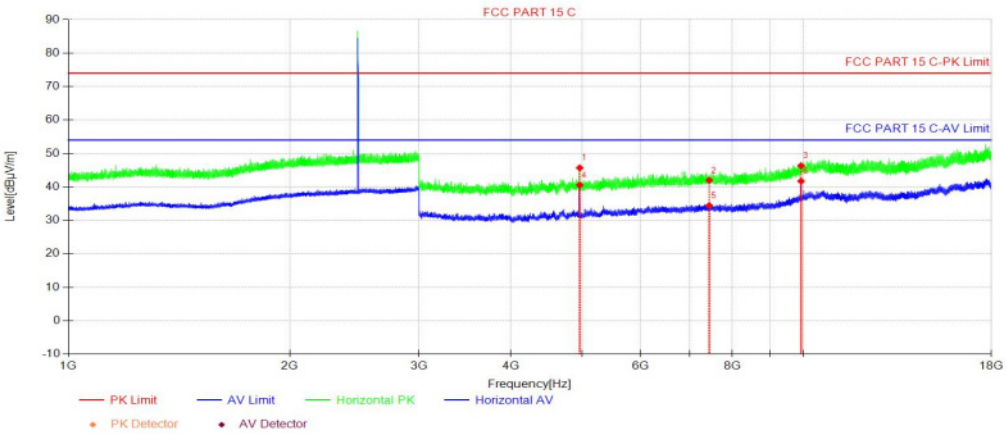


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4881.84	55.50	-4.72	50.78	74.00	23.22	150	236	Peak	Horizon
2	7323.22	44.90	-1.49	43.41	74.00	30.59	150	323	Peak	Horizon
3	9764.59	43.67	1.64	45.31	74.00	28.69	150	323	Peak	Horizon
4	4882.59	50.03	-4.72	45.31	54.00	8.69	150	236	AV	Horizon
5	7323.22	36.03	-1.49	34.54	54.00	19.46	150	201	AV	Horizon
6	9764.59	40.06	1.64	41.70	54.00	12.30	150	289	AV	Horizon

DH5 2480MHz



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4960.60	45.00	-4.86	40.14	74.00	33.86	150	108	Peak	Vertical
2	7440.22	43.55	-1.34	42.21	74.00	31.79	150	51	Peak	Vertical
3	9920.60	43.90	2.27	46.17	74.00	27.83	150	229	Peak	Vertical
4	4960.60	38.99	-4.86	34.13	54.00	19.87	150	360	AV	Vertical
5	7440.22	35.60	-1.34	34.26	54.00	19.74	150	169	AV	Vertical
6	9920.60	34.63	2.27	36.90	54.00	17.10	150	197	AV	Vertical



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4960.60	50.56	-4.86	45.70	74.00	28.30	150	81	Peak	Horizon
2	7440.22	43.34	-1.34	42.00	74.00	32.00	150	284	Peak	Horizon
3	9920.60	44.07	2.27	46.34	74.00	27.66	150	284	Peak	Horizon
4	4960.60	45.42	-4.86	40.56	54.00	13.44	150	81	AV	Horizon
5	7440.22	35.79	-1.34	34.45	54.00	19.55	150	311	AV	Horizon
6	9920.60	39.45	2.27	41.72	54.00	12.28	150	284	AV	Horizon

Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

   Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)

2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.

4. All channels had been pre-test,DH5 is the worst case, only the worst case was reported.

3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

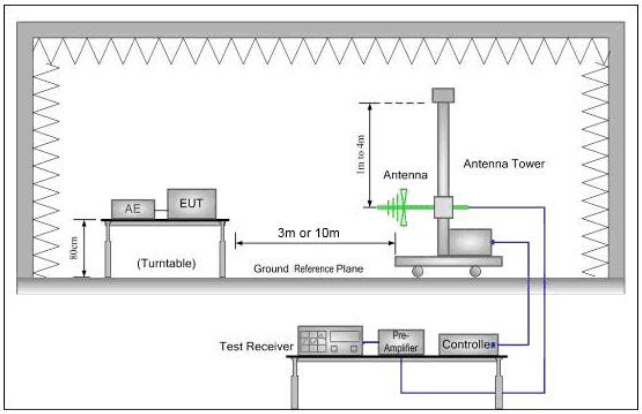


Figure 1. 30MHz to 1GHz

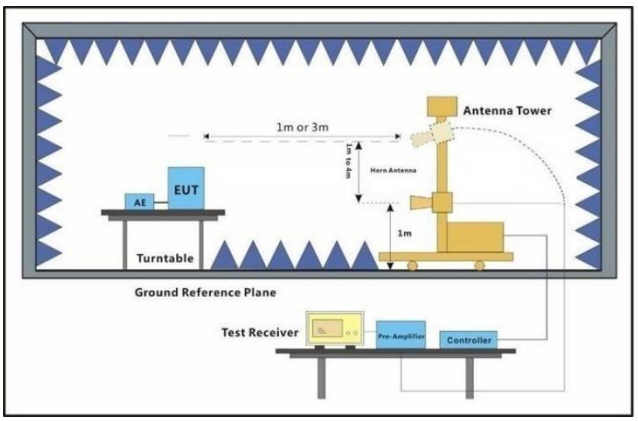


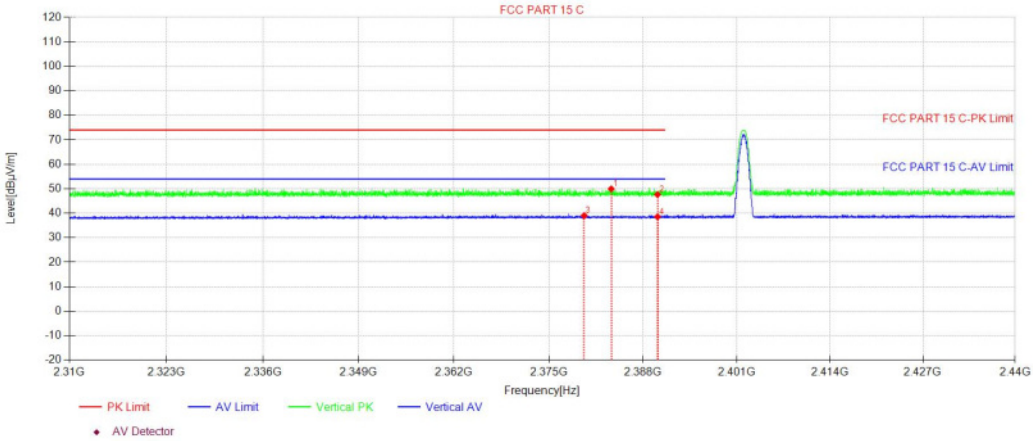
Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz

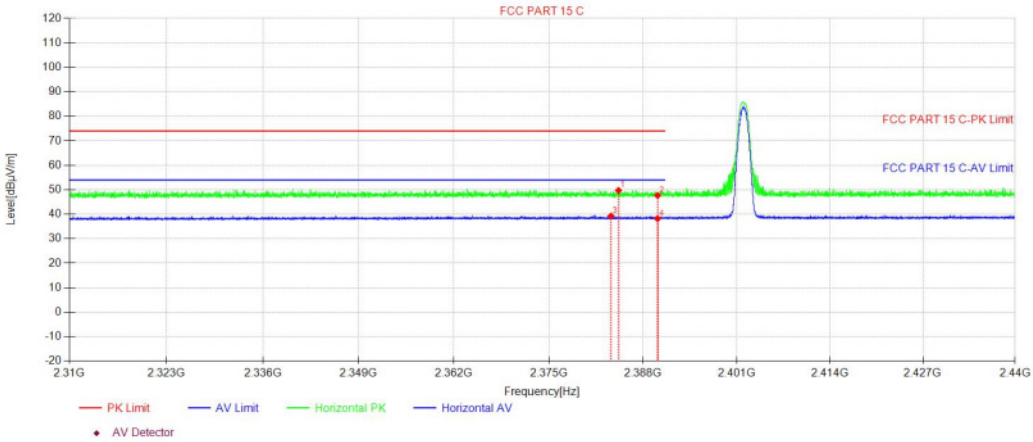
	• RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ⩾ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ⩾ 1/T, when duty cycle is less than 98 percent where T is 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of all modulation type. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

Test Date

DH5 2402MHz

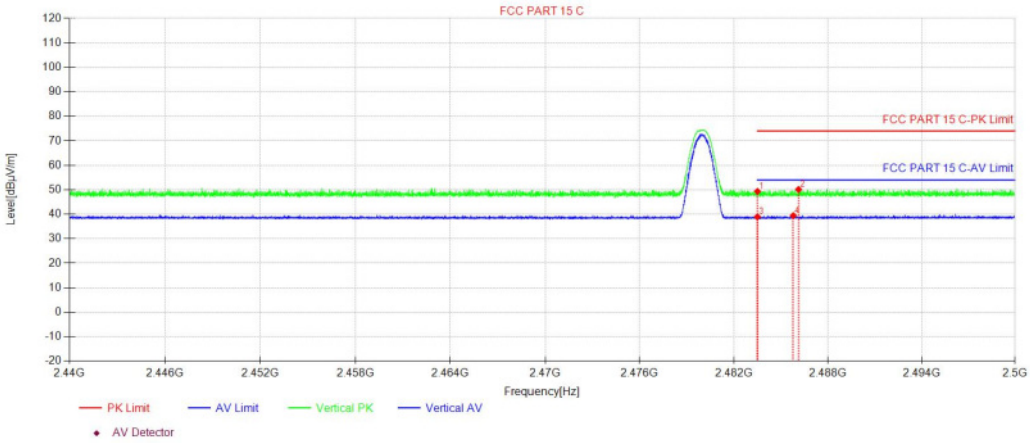


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	AV Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2383.61	50.76	-0.82	49.94	74.00	24.06	150	272	Peak	Vertical
2	2390.01	48.44	-0.80	47.64	74.00	26.36	150	2	Peak	Vertical
3	2379.88	39.83	-0.83	39.00	54.00	15.00	150	0	AV	Vertical
4	2390.01	39.33	-0.80	38.53	54.00	15.47	150	240	AV	Vertical

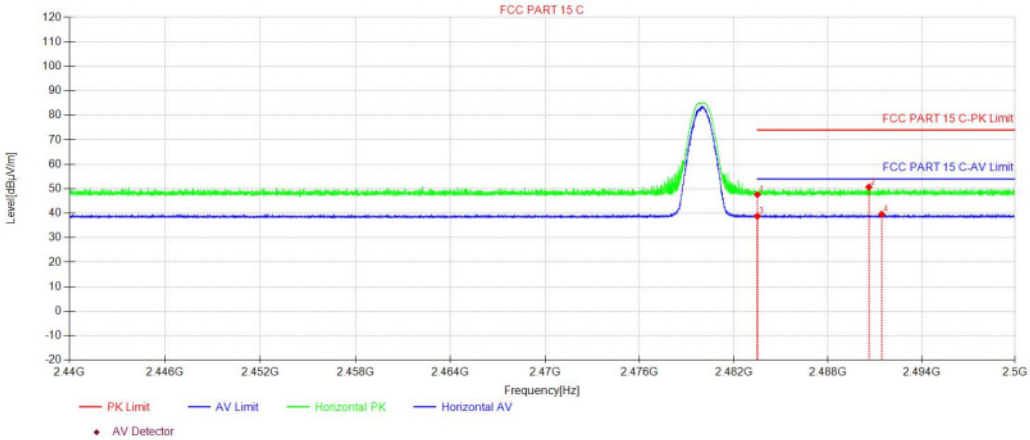


NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	AV Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2384.61	50.55	-0.82	49.73	74.00	24.27	150	170	Peak	Horizon
2	2390.01	48.46	-0.80	47.66	74.00	26.34	150	103	Peak	Horizon
3	2383.57	40.08	-0.82	39.26	54.00	14.74	150	28	AV	Horizon
4	2390.01	38.98	-0.80	38.18	54.00	15.82	150	15	AV	Horizon

DH5 2480MHz



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2483.51	49.62	-0.29	49.33	74.00	24.67	150	52	Peak	Vertical
2	2486.13	50.38	-0.27	50.11	74.00	23.89	150	64	Peak	Vertical
3	2483.51	39.23	-0.29	38.94	54.00	15.06	150	356	AV	Vertical
4	2485.80	39.69	-0.27	39.42	54.00	14.58	150	210	AV	Vertical



NO.	Freq. [MHz]	Reading Level [dBμV]	Correct Factor [dB/m]	Result Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2483.50	47.89	-0.29	47.60	74.00	26.40	150	151	Peak	Horizon
2	2490.63	50.93	-0.24	50.69	74.00	23.31	150	300	Peak	Horizon
3	2483.50	39.04	-0.29	38.75	54.00	15.25	150	310	AV	Horizon
4	2491.45	39.85	-0.23	39.62	54.00	14.38	150	186	AV	Horizon

Note:

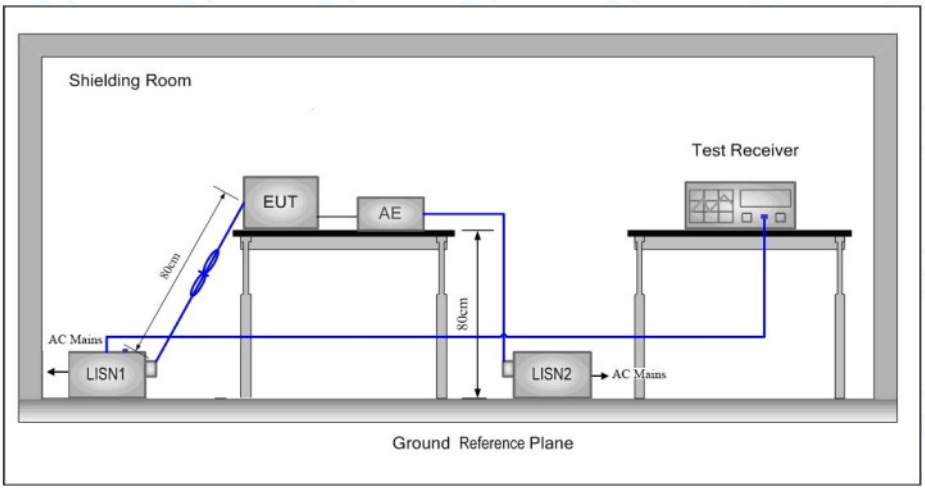
1.The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor ,Cable Factor etc.

2.All channels had been pre-test, DH5 is the worst case, only the worst case was reported.

3.The Right Earphone was the worst. Only the worst case was recorded.

3.11 AC Power Line Conducted Emissions

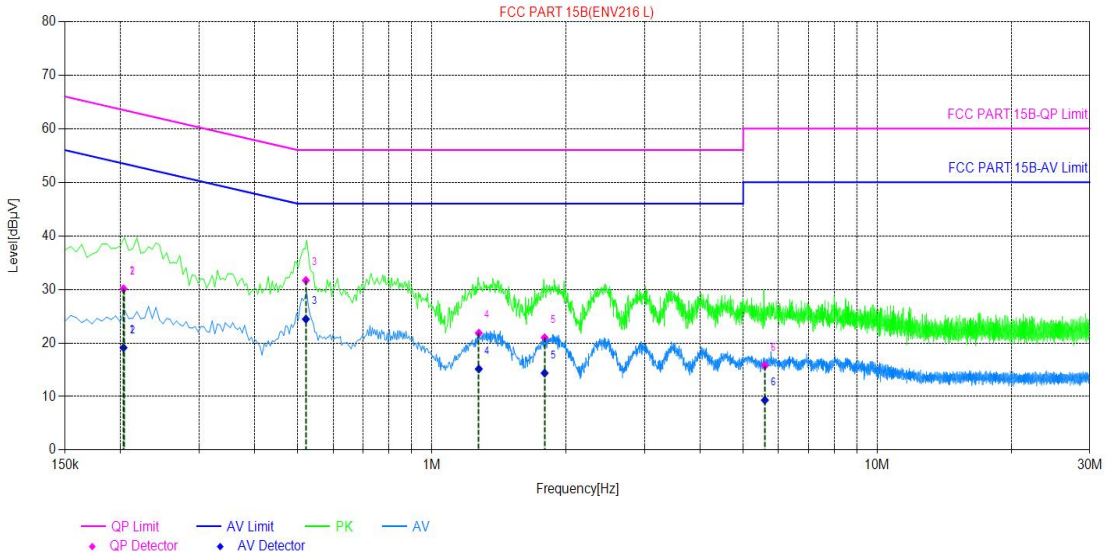
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 2013 on conducted measurement.		
Test Setup:			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.		

Final Test Mode:	Through Pre-scan, find the the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

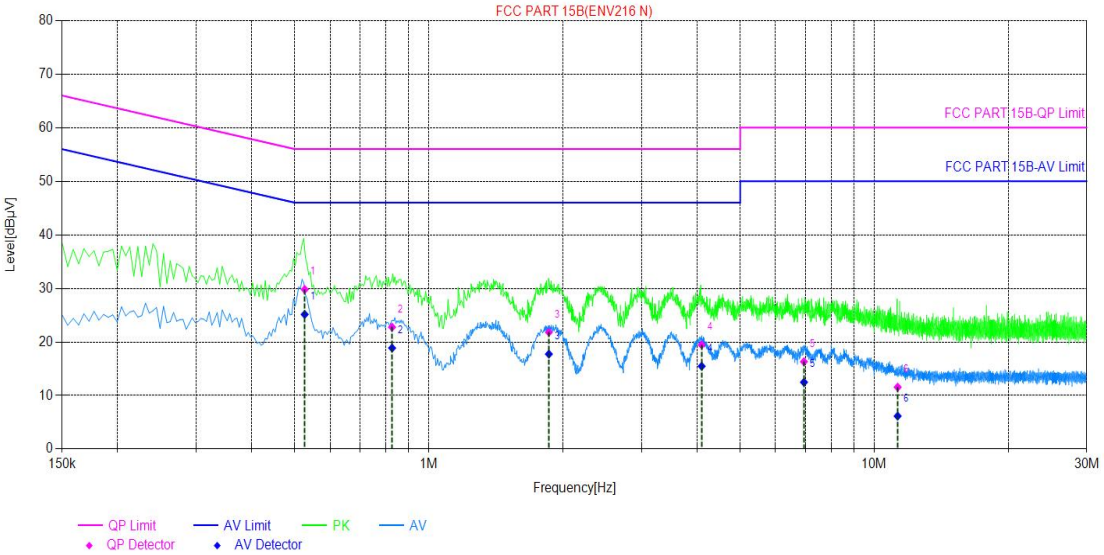
Live Line:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2030	9.93	30.11	63.49	33.38	19.11	53.49	34.38	PASS
2	0.2039	9.93	29.90	63.45	33.55	18.95	53.45	34.50	PASS
3	0.5212	9.87	31.67	56.00	24.33	24.45	46.00	21.55	PASS
4	1.2743	9.73	21.84	56.00	34.16	15.15	46.00	30.85	PASS
5	1.7910	9.73	20.99	56.00	35.01	14.37	46.00	31.63	PASS
6	5.5929	9.81	15.78	60.00	44.22	9.33	50.00	40.67	PASS

Neutral Line:



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.5261	9.73	29.79	56.00	26.21	25.14	46.00	20.86	PASS
2	0.8267	9.78	22.76	56.00	33.24	18.87	46.00	27.13	PASS
3	1.8594	9.76	21.81	56.00	34.19	17.74	46.00	28.26	PASS
4	4.0969	9.96	19.45	56.00	36.55	15.47	46.00	30.53	PASS
5	6.9525	9.99	16.32	60.00	43.68	12.48	50.00	37.52	PASS
6	11.2859	9.84	11.56	60.00	48.44	6.16	50.00	43.84	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor etc

4 Appendix

Appendix A: 20dB Emission Bandwidth

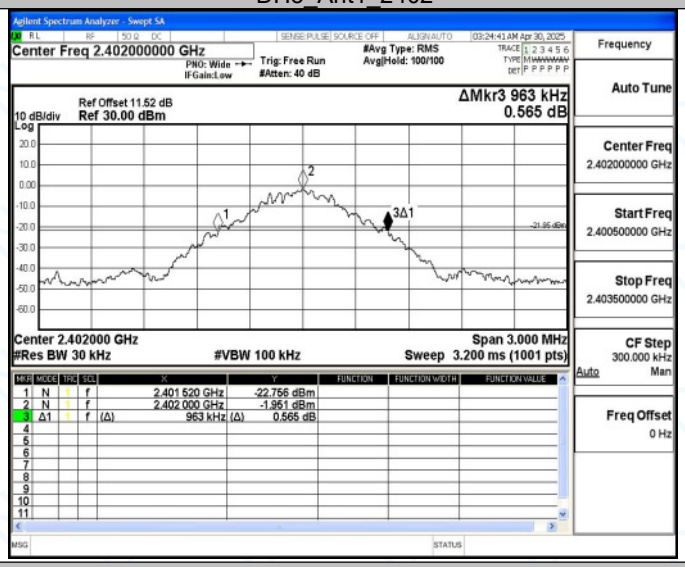
Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.520	2402.483	---	---
		2441	0.972	2440.511	2441.483	---	---
		2480	0.975	2479.505	2480.480	---	---
2DH5	Ant1	2402	1.269	2401.361	2402.630	---	---
		2441	1.323	2440.325	2441.648	---	---
		2480	1.317	2479.328	2480.645	---	---
3DH5	Ant1	2402	1.302	2401.343	2402.645	---	---
		2441	1.275	2440.349	2441.624	---	---
		2480	1.278	2479.343	2480.621	---	---

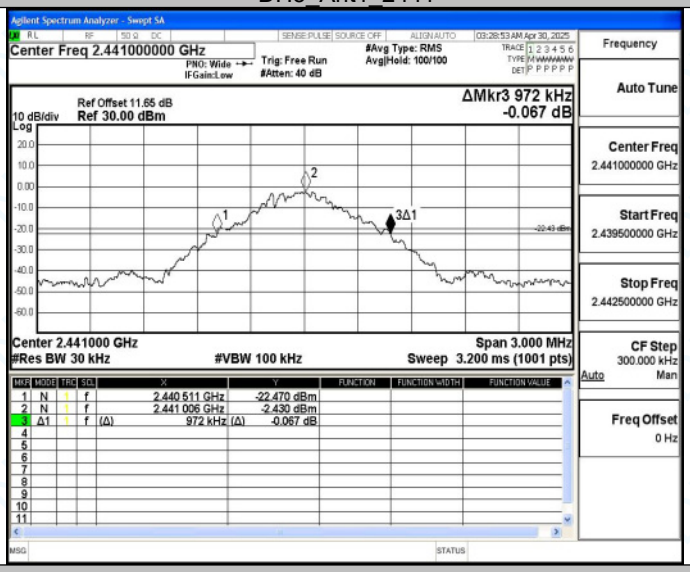
Note:The Right Earphone was the worst. Only the worst case was recorded.

Test Graphs

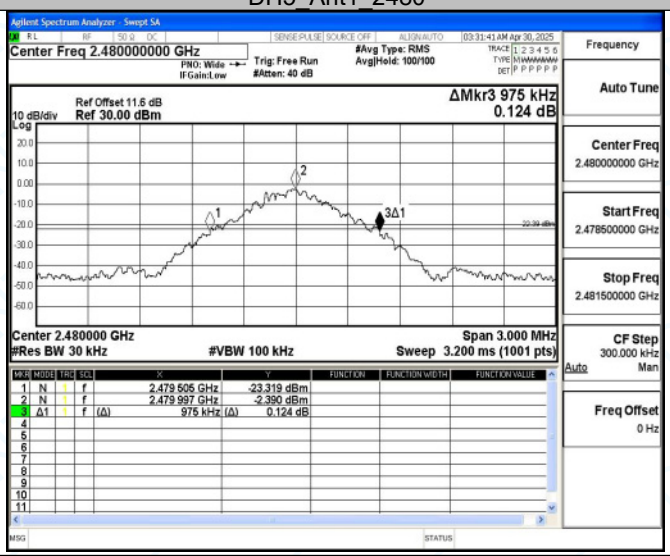
DH5_Ant1_2402



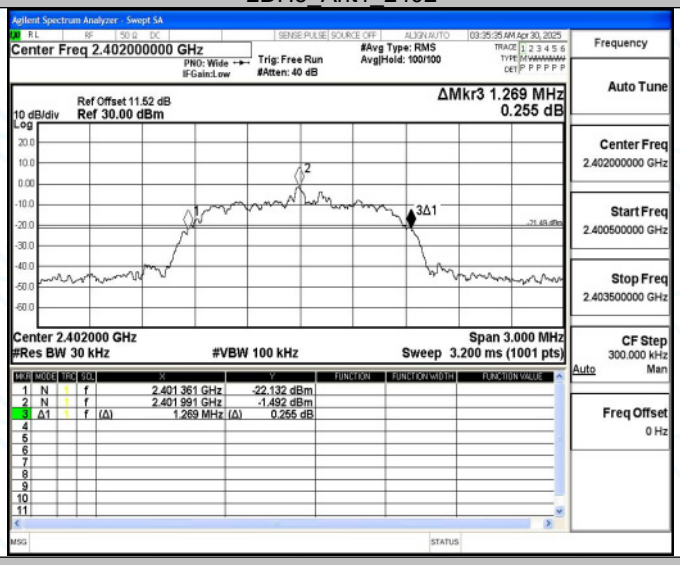
DH5_Ant1_2441



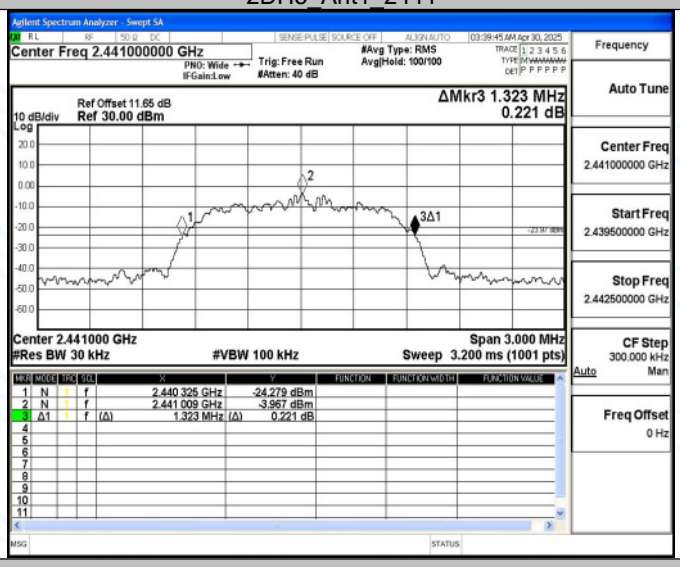
DH5_Ant1_2480



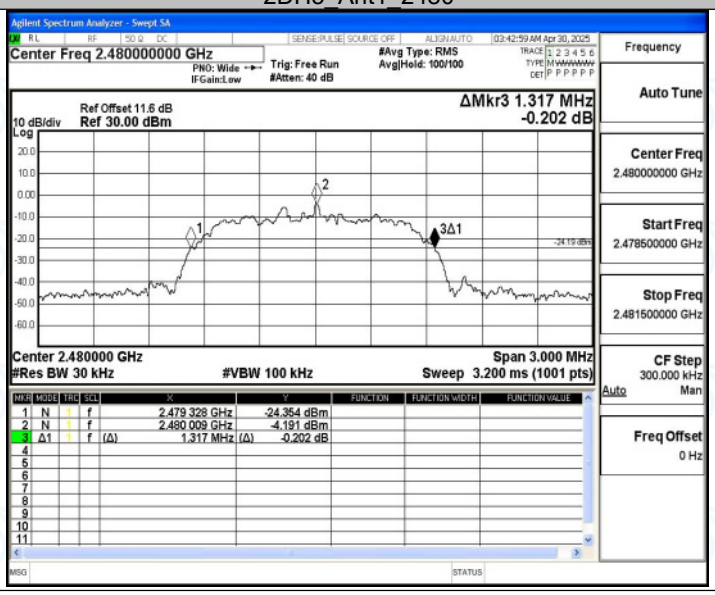
2DH5_Ant1_2402



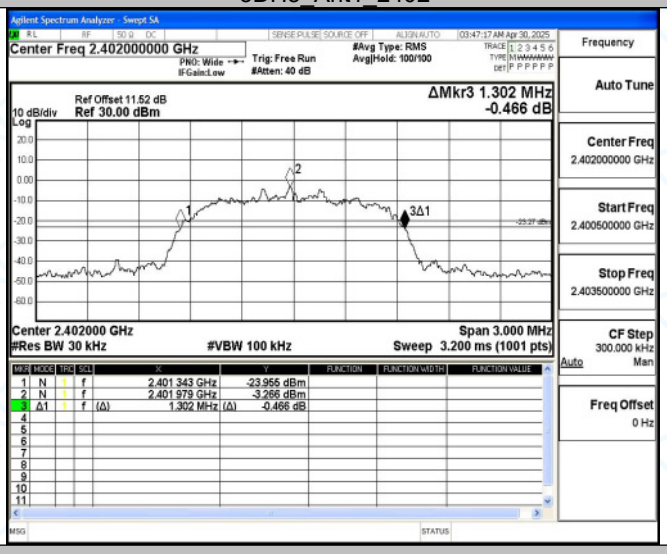
2DH5_Ant1_2441



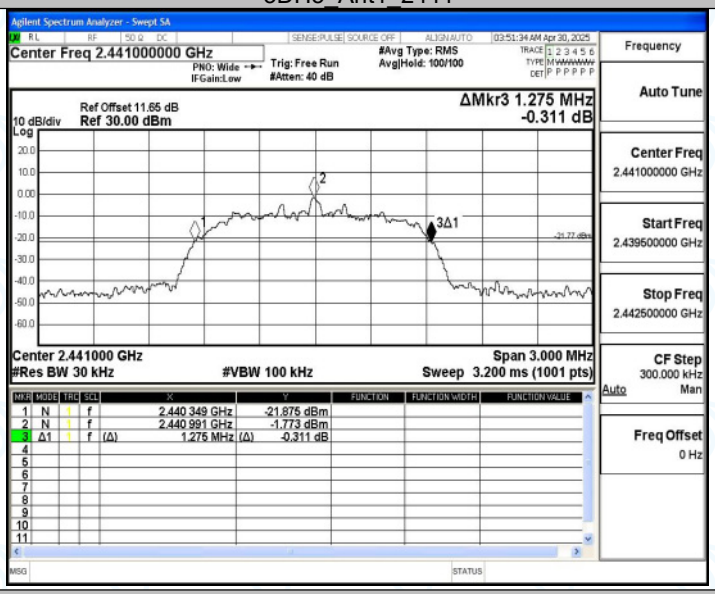
2DH5_Ant1_2480



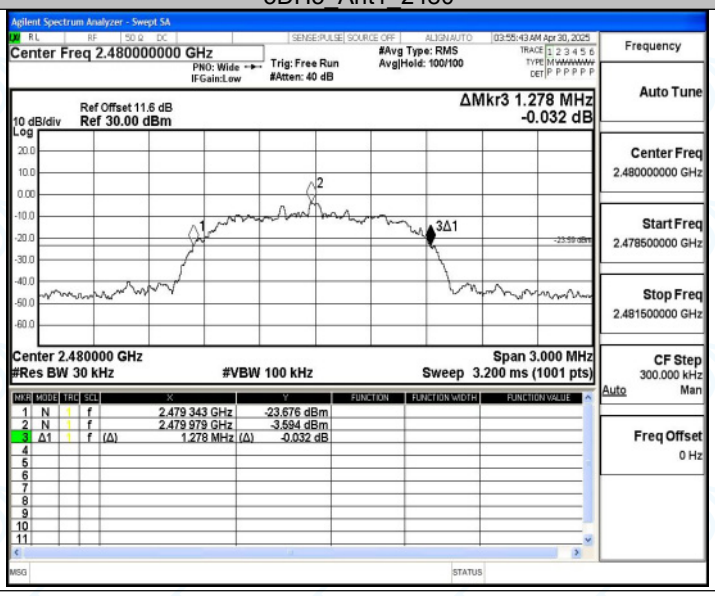
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix B: Maximum conducted output power

Test Result

Left Earphone:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.87	≤20.97	PASS
		2441	0.79	≤20.97	PASS
		2480	0.01	≤20.97	PASS
2DH5	Ant1	2402	1.36	≤20.97	PASS
		2441	1.30	≤20.97	PASS
		2480	0.49	≤20.97	PASS
3DH5	Ant1	2402	1.90	≤20.97	PASS
		2441	1.89	≤20.97	PASS
		2480	1.09	≤20.97	PASS

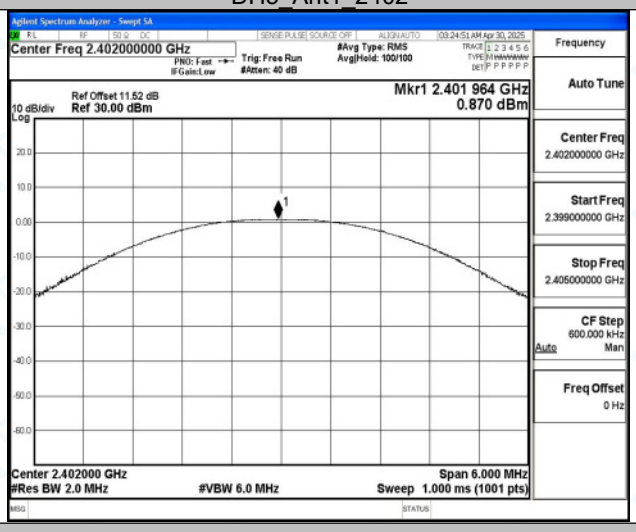
Right Earphone:

Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.11	≤20.97	PASS
		2441	0.79	≤20.97	PASS
		2480	0.20	≤20.97	PASS
2DH5	Ant1	2402	1.69	≤20.97	PASS
		2441	1.34	≤20.97	PASS
		2480	0.62	≤20.97	PASS
3DH5	Ant1	2402	1.97	≤20.97	PASS
		2441	1.53	≤20.97	PASS
		2480	0.96	≤20.97	PASS

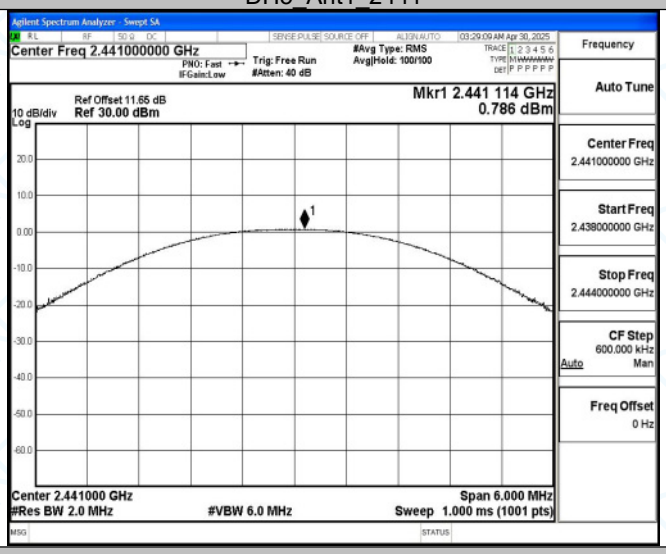
Test Graphs

Left Earphone:

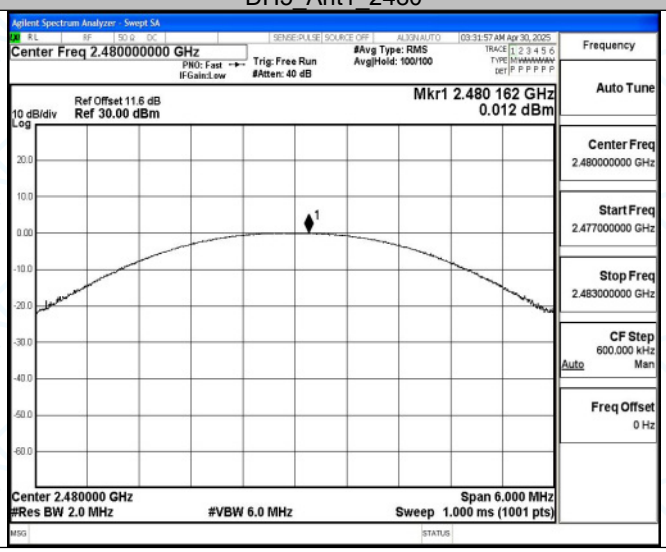
DH5_Ant1_2402



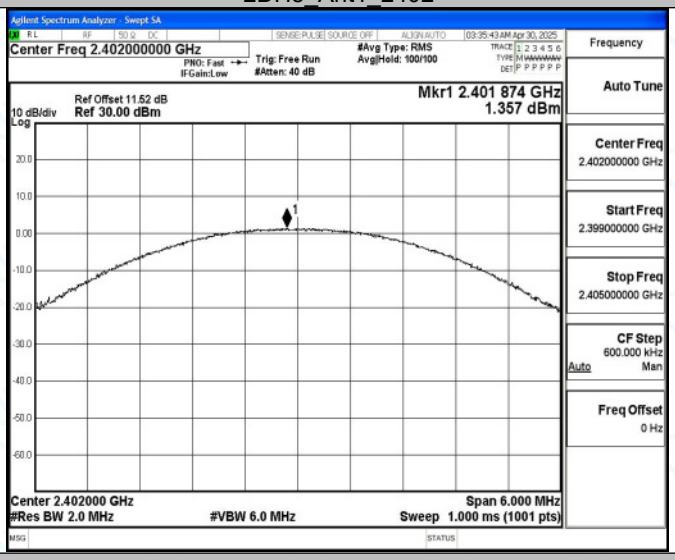
DH5_Ant1_2441



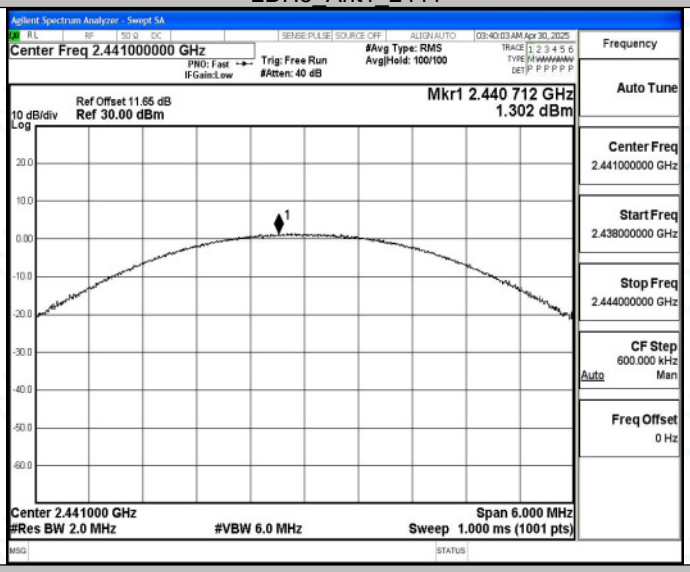
DH5_Ant1_2480



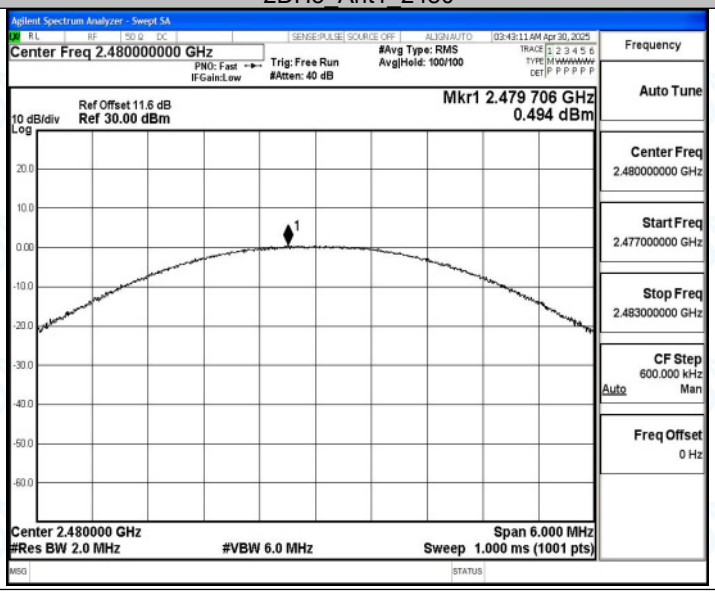
2DH5_Ant1_2402



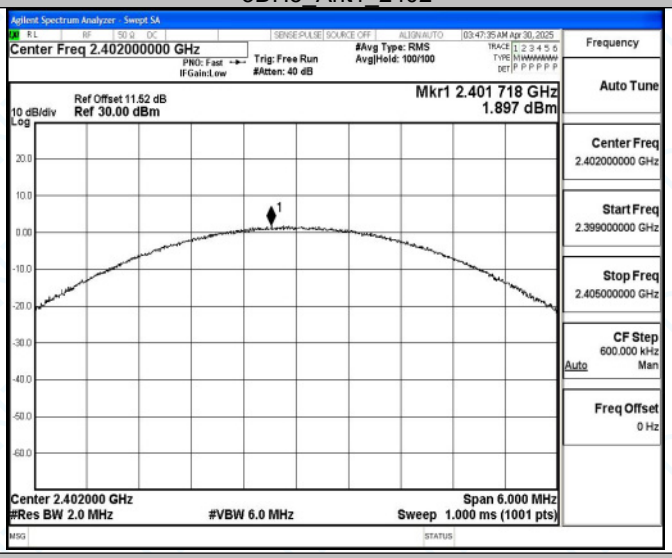
2DH5_Ant1_2441



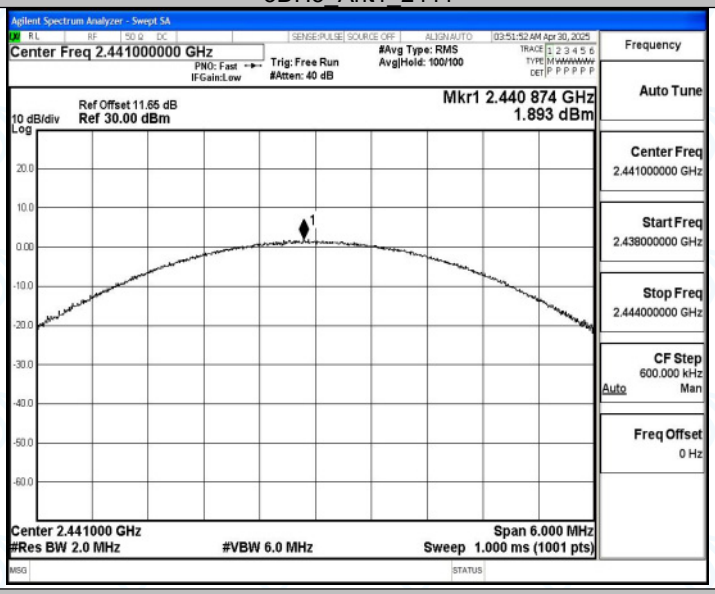
2DH5_Ant1_2480



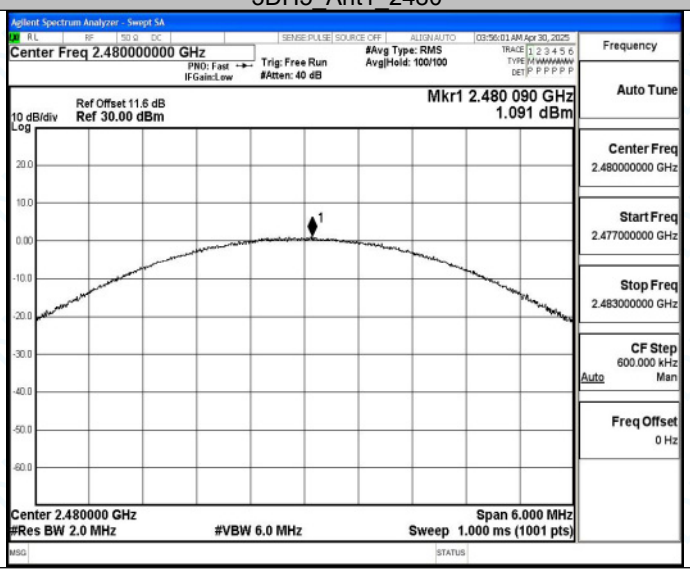
3DH5_Ant1_2402



3DH5_Ant1_2441

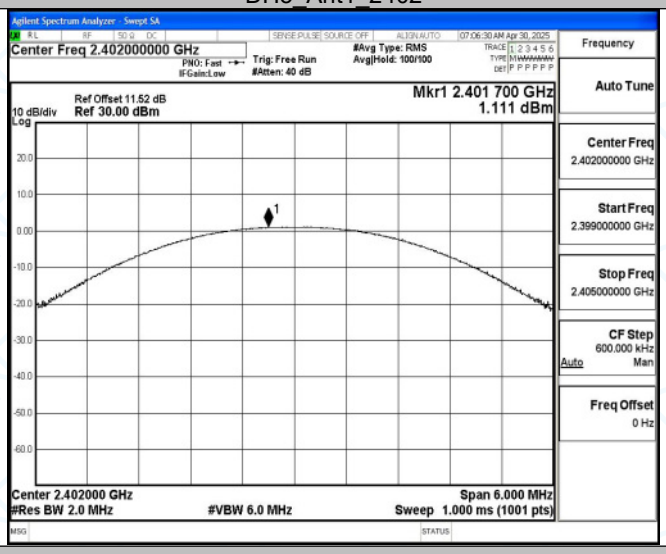


3DH5_Ant1_2480

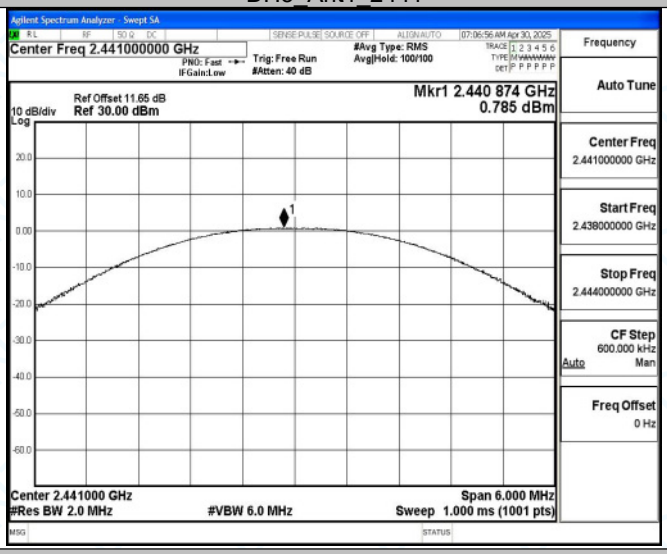


Right Earphone:

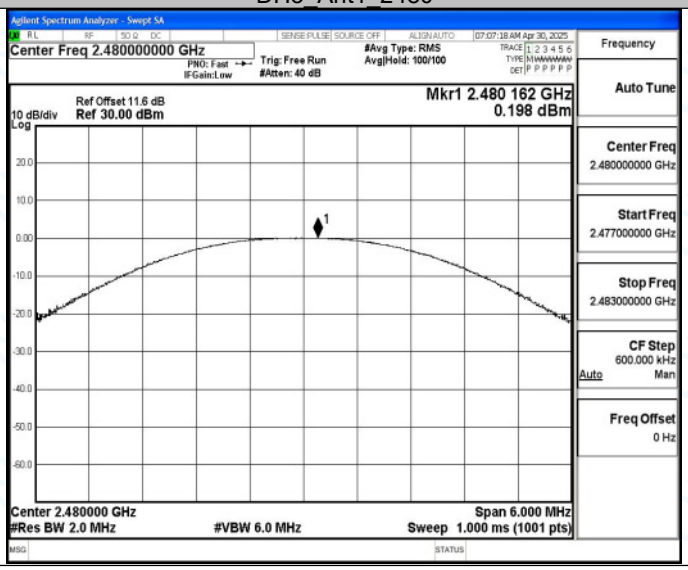
DH5_Ant1_2402



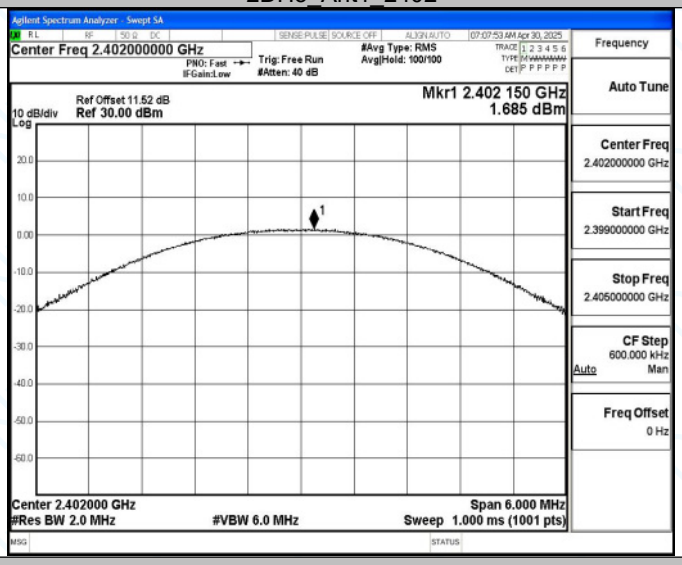
DH5_Ant1_2441



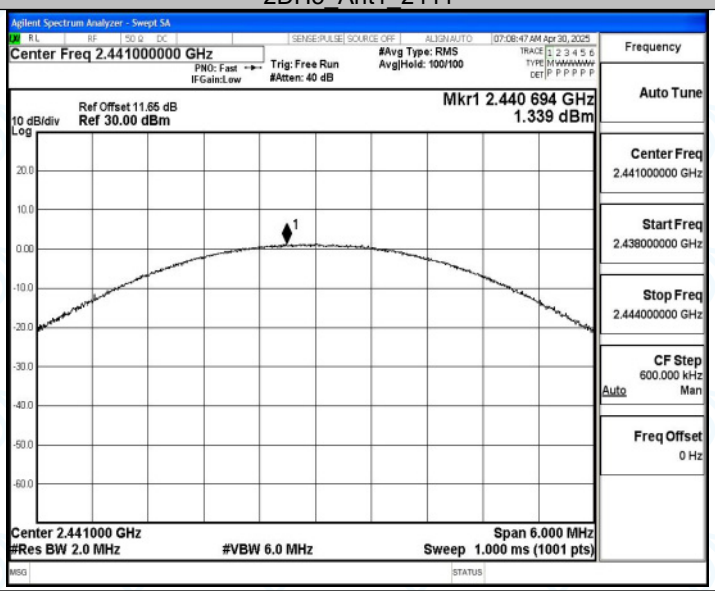
DH5_Ant1_2480



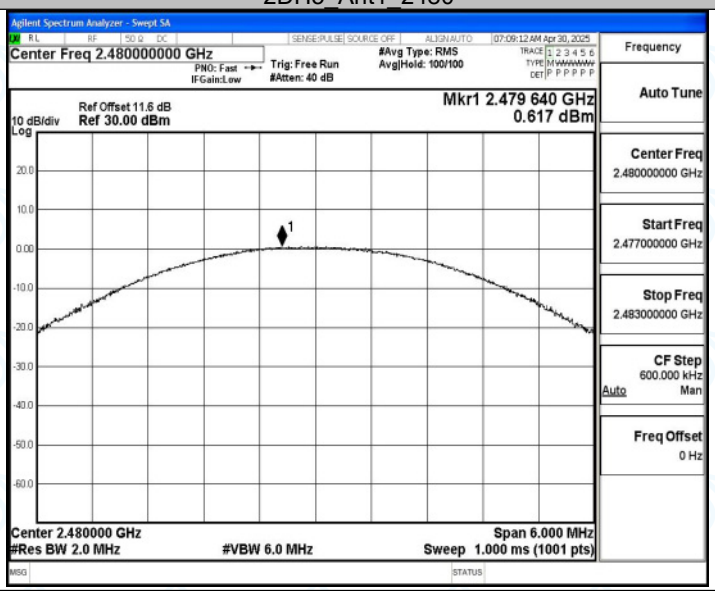
2DH5_Ant1_2402



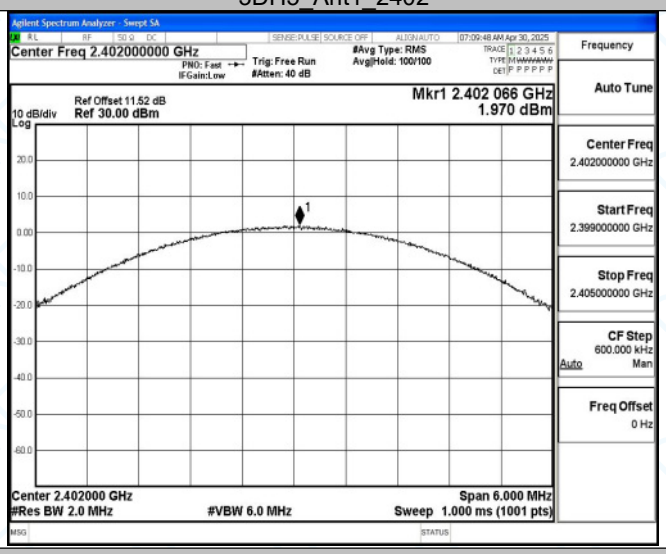
2DH5_Ant1_2441



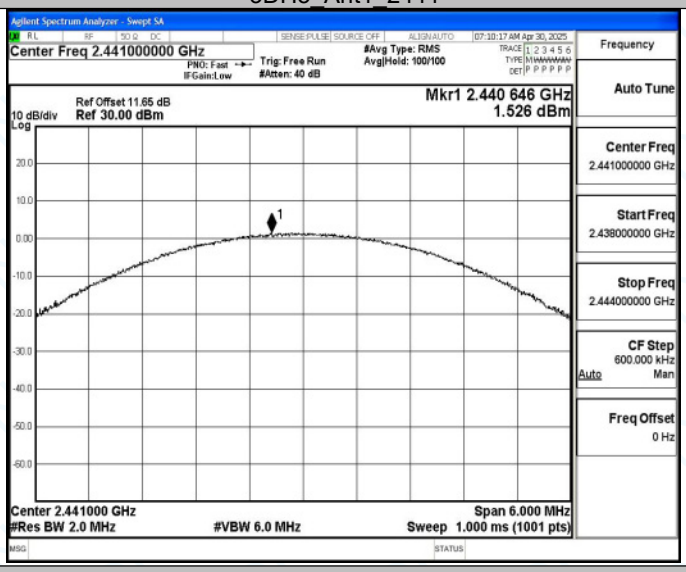
2DH5_Ant1_2480



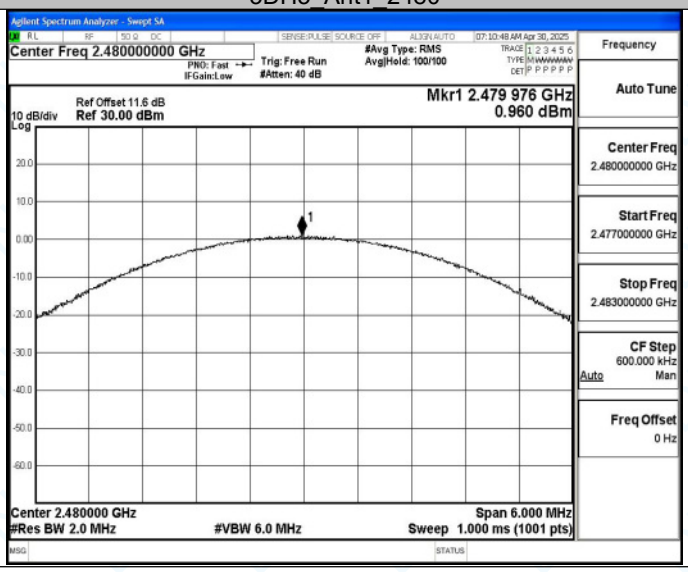
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Carrier frequency separation

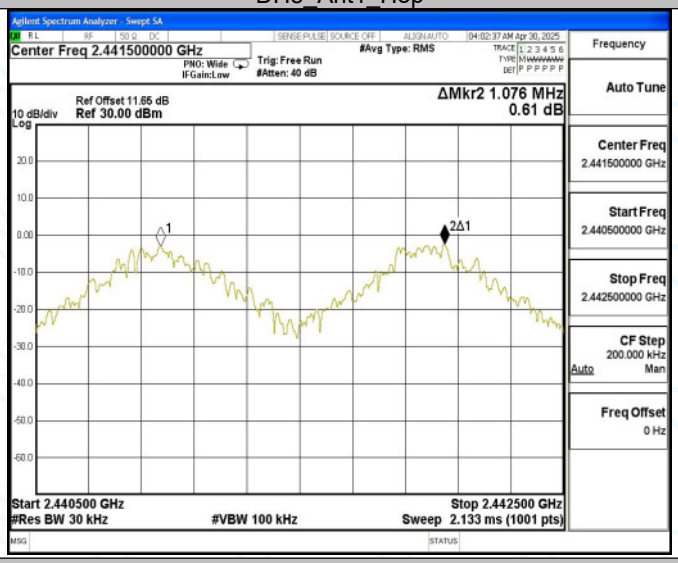
Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.076	≥0.975	PASS
2DH5	Ant1	Hop	1.012	≥0.882	PASS
3DH5	Ant1	Hop	1.03	≥0.868	PASS

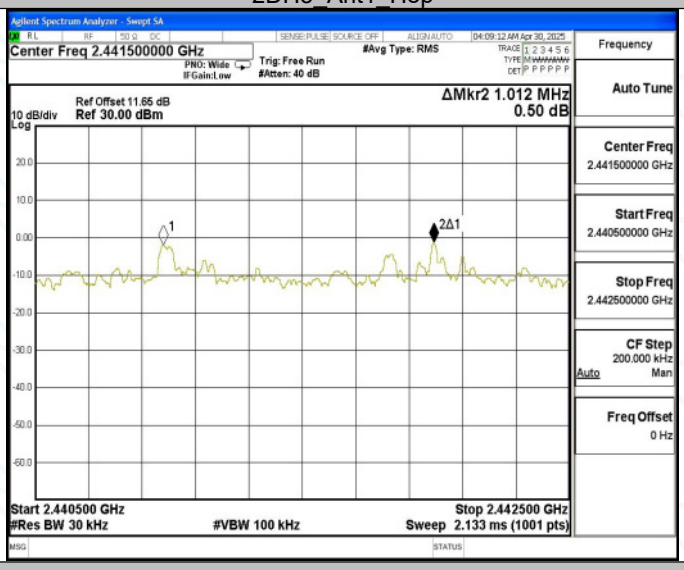
Note:The Right Earphone was the worst. Only the worst case was recorded.

Test Graphs

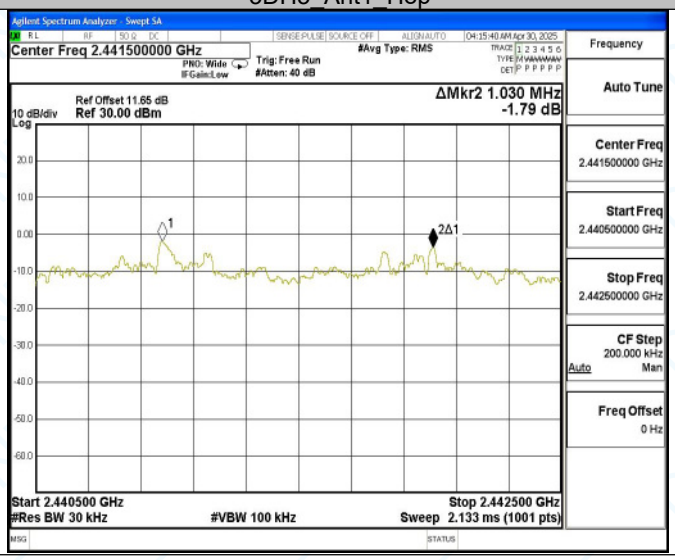
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



Appendix D: Dwell Time

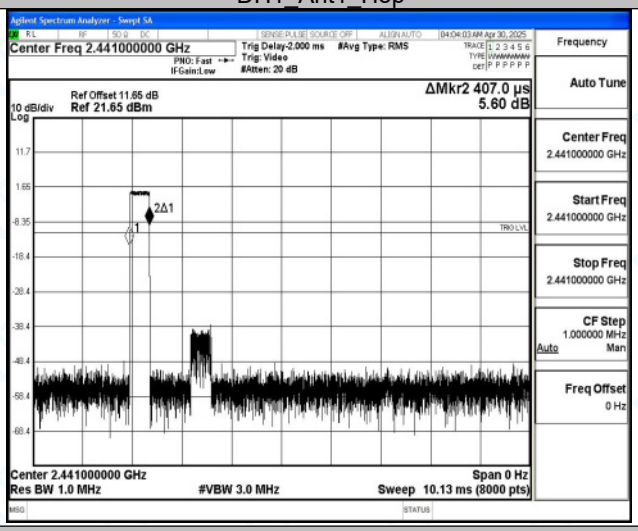
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	160	0.266	≤0.4	PASS
DH5	Ant1	Hop	2.911	106.67	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.417	320	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.669	160	0.267	≤0.4	PASS
2DH5	Ant1	Hop	2.915	106.67	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.419	320	0.134	≤0.4	PASS
3DH3	Ant1	Hop	1.667	160	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.917	106.67	0.311	≤0.4	PASS

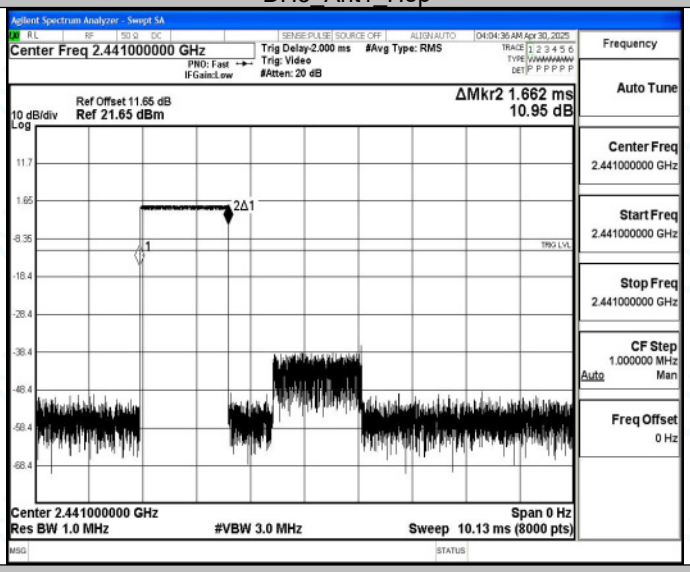
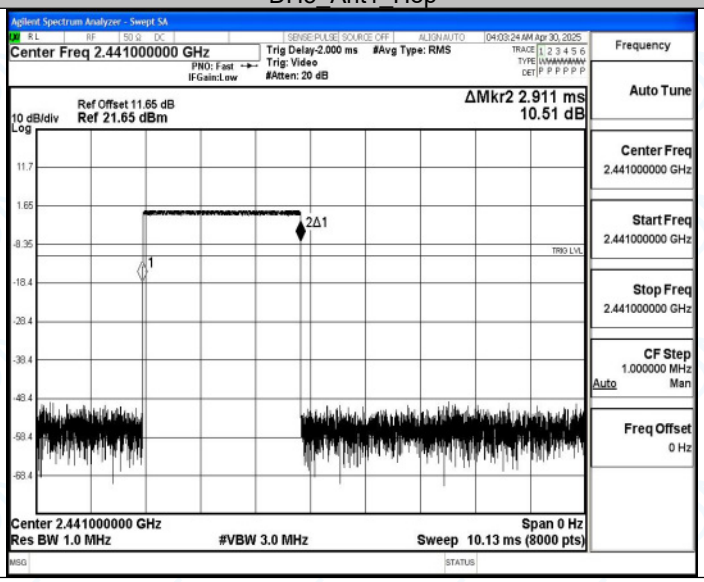
Note:The Right Earphone was the worst. Only the worst case was recorded.

Test Graphs

DH1_Ant1_Hop



DH3_Ant1_Hop



DH5_Ant1_Hop