ITL Co., Ltd.



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Report Template Version: V02

FCC Test Report

JiangXi MeiDong Technology Co., Ltd Applicant:

Address of Applicant: No.1, Food Avenue, Jingshan Comprehensive District, Shanggao Prefecture

Industrial Park, Yichun City, Jiangxi Province

JiangXi MeiDong Technology Co., Ltd Manufacturer:

Address of No.1, Food Avenue, Jingshan Comprehensive District, Shanggao Prefecture

Manufacturer: Industrial Park, Yichun City, Jiangxi Province

JiangXi MeiDong Technology Co., Ltd **Factory:**

Address of Factory: No.1, Food Avenue, Jingshan Comprehensive District, Shanggao Prefecture

Industrial Park, Yichun City, Jiangxi Province

Equipment Under Test (EUT):

Product: Active Noise Cancelling Headphones

Model No.: E7,E7 KY, E7 Basic C, E7 Basic B, E7 MD PRO, E7 MD, E7E

(All models is only different name)

Brand Name:

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▶ ● ••••

FENSOL/ Silensys/ MOVSSOU/

PurelySound/ Synthphonics

FCC ID: 2A4ND-E7HP

Standards: 47 CFR Part 15, Subpart C Date of Test: 2022-02-18 to 2022-02-25

Date of Issue: 2022-02-25

Report No.: D220225003-1

Test Result: PASS*

Vamon Tested By:

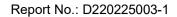
(Damon Deng)

Reviewed By:

(Chivas Zeng)

Approved By:

(Victor Meng)





1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
D220225003-1	Rev.01	Initial report	2022-02-25



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Carrier Frequencies Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Hopping Channel Number	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)	ANSI C63.10 (2013)	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS



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General Information

4.1 Client Information

Applicant:	JiangXi MeiDong Technology Co., Ltd
Address of Applicant:	No.1, Food Avenue, Jingshan Comprehensive District, Shanggao Prefecture Industrial Park, Yichun City, Jiangxi Province
Manufacturer:	JiangXi MeiDong Technology Co., Ltd
Address of Manufacturer:	No.1, Food Avenue, Jingshan Comprehensive District, Shanggao Prefecture Industrial Park, Yichun City, Jiangxi Province
Factory:	JiangXi MeiDong Technology Co., Ltd
Address of Factory:	No.1, Food Avenue, Jingshan Comprehensive District, Shanggao Prefecture Industrial Park, Yichun City, Jiangxi Province

4.2 General Description of EUT

	•		
Product Name:	Active Noise Cancelling Headphones		
Model No.:	E7,E7 KY, E7 Basic C , E7 Basic B , E7 MD PRO, E7 MD, E7E		
	(All models is only different name)		
Test Model No.:	E7		
Trade Mark:	FENSOL/ Silensys/ MOVSSOU/		
	PurelySound/ Synthphonics		
Hardware Version:	V1.8		
Software Version:	V7.2		
Operation Frequency	2402MHz~2480MHz		
Bluetooth Version:	V5.0		
Modulation Technique:	Frequency Hopping Spread Spectrum (FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Sample Type:	portable production		
Sample number:	20211228001		
Test Software of EU	BK32xx RF Test_V1.8.2 (manufacturer declare)		
Antenna Type:	PCB antenna		
Antenna Gain:	0 dBi		
Power Supply:	AC120V 60Hz		
General product informat	tion:		

All models use two specifications of battery, Battery 1: 3.7V 750mAh; Battery 2: 3.7V 400mAh.



Operation Frequency each of 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		

Note:

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



4.3 Test Environment

Operating Environment:			
Temperature:	25.0 °C		
Humidity:	53 % RH		
Atmospheric Pressure:	995mbar		
Test Mode:	Use test software (RF Test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
1	1	1	1	1

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the ITL Co., LTD. quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for ITL laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±4.54dB	(1)
Radiated Emission	Above 1GHz	±4.10dB	(1)
Conducted Disturbance	0.15~30MHz	±3.58dB	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Test Location

ITL Co., Ltd

No.8, JinQianLing street 5, Huangjiang Town, Dongguan, Guangdong, 523757 P.R.C



4.7 Test Facility

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

CNAS(Lab code: L9342)

• NVLAP LAB CODE 600199-0

• FCC Designation Number: CN5035

• FCC Test Firm Registration Number: 239076

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

4.10 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	25 ° C
Humidity:	48%
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

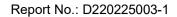
Temperature:	25° C
Humidity:	42 %
Atmospheric pressure:	950-1050mbar



4.11 Equipment List

No.	Test Equipment	Manufacturer	Model	Serial No.	Cal Data	Due Date
DGITL- 301	Semi-Anechoic chamber	ETS•Lindgren	9*6*6	CT000874- 1181	2021.08.02	2022.08.01
DGITL- 307	EMI test receiver	SCHWARZBECK	ESVS10	833616 /003	2021.05.11	2022.05.10
DGITL- 376	Wideband Radio Communication Tester	SCHWARZBECK	CMW500	LR114195	2021.05.11	2022.05.10
DGITL- 349	MXG Vector Signal Generator	Agilent Technologies	N5182A	MY47071034	2021.05.11	2022.05.10
DGITL- 306	Spectrum Analyzer	Agilent Technologies	N9010A	MY54200334	2021.05.11	2022.05.10
DGITL- 352	Pre Amplifier	MInI-Circuits	ZFC- 1000HX	SN292801110	2021.05.11	2022.05.10
DGITL- 375	Spectrum Analyzer	SCHWARZBECK	FSV40-N	6625-01-588- 5515	2021.05.11	2022.05.10
DGITL- 309	Horn Antenna	ETS Lindgren	3117	SN00152265	2021.05.11	2024.05.10
DGITL- 308	Bilog Antenna	ETS· Lindgren	3142E	156975	2020.06.20	2023.06.19
DGITL- 350	Wideband Amplifier Super Ultra	MInI-CIrcuits	ZVA- 183X-S+	SN986401426	2021.05.11	2022.05.10
DGITL- 365	Broad-band Horn Antenna	SCHWARZBECK	9170	795	2020.07.04	2022.07.04
DGITL- 371	Pre Amplifier	teramicrowave	TALA- 0040G35	18081001	2021.05.11	2022.05.10
DGITL- 363	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	062	2020.07.04	2022.07.03

Software list				
Testing software	Manufacturer	Model	Version number	
e3	AUDIX	e3.lnk	Version:6.2009-11-3c(itl)	
MTS	MWRFTEST	MTS 8310	Version:2.0	





5 Test results and Measurement Data

5.1 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.

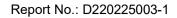
15.247(b) (4) requirement:

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.

EUT Antenna:



The antenna is PCB antenna, The best case gain of the antenna is 0 dBi.





5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:				
Limit:	Limit (dBuV)			
	Frequency range (MHz)	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	n of the frequency.		
Test Procedure: Test Setup:	1) The mains terminal disturbation. 2) The EUT was connected to Impedance Stabilization Not impedance. The power case connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Libert exceeded. 3) The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference plane. An effective vertical ground reference preference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated ed. 5) In order to find the maximum equipment and all of the impact of t	pance voltage test was a AC power source throetwork) which provides oles of all other units of N 2, which was bonded e way as the LISN 1 for et outlet strip was used SN provided the rating and for floor-standing arround reference plane, the a vertical ground reference to the N as placed 0.8 m from the vertical ground reference plane. The of the LISN 1 and the quipment was at least 0 m emission, the relative terface cables must be	a sugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were do to the ground or the unit being do to connect multiple of the LISN was not considered the transport of the EUT was defended by the transport of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. The transport of the positions of	
		Ground Reference Plane		
		40 54 54 66 (000 F 200 F 2		
Exploratory Test Mode:	Non-hopping transmitting mod	le with all kind of modu	lation and all kind of	



Report No.: D220225003-1

	data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH1 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass

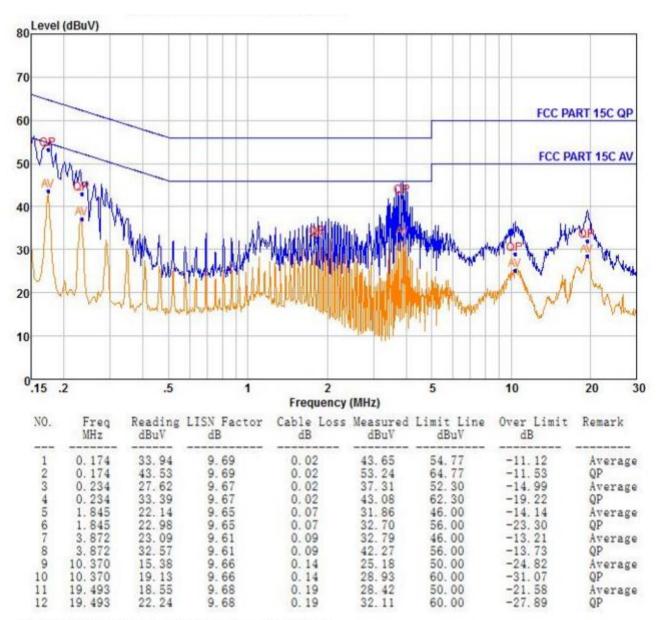
Measurement Data

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.

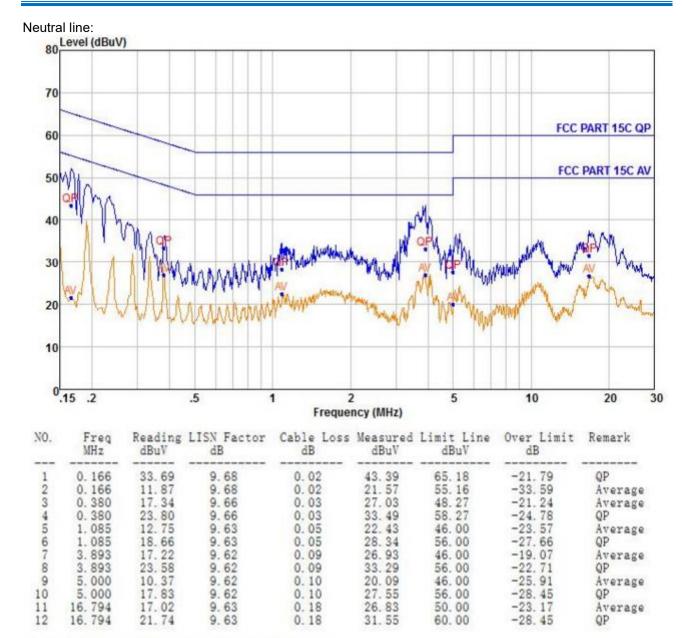


Battery 1 Live line:



^{1:} Measured=Reading + LISN Factor + Cable Loss

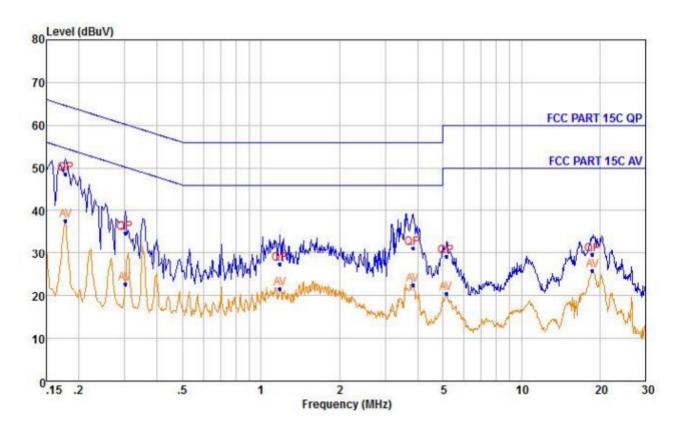




^{1:} Measured=Reading + LISN Factor + Cable Loss



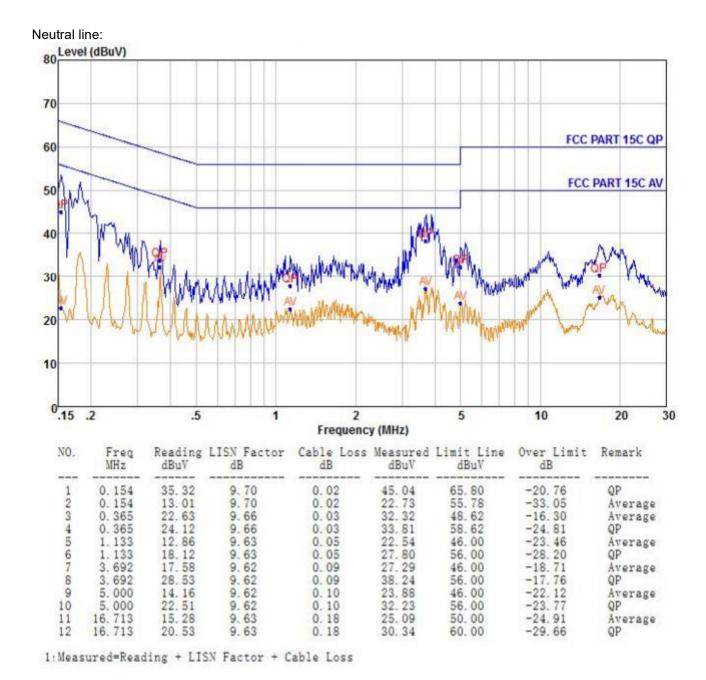
Battery 2 Live line:



NO.	Freq MHz	Reading dBuV	LISN Factor	Cable Loss dB	Measured dBuV	Limit Line dBuV	Over Limit	Remark
1 2 3 4 5 6 7 8 9	0. 178 0. 178 0. 301 0. 301 1. 182 1. 182 3. 833 3. 833 5. 156	28. 05 38. 93 13. 11 25. 09 11. 97 17. 69 12. 90 21. 56 10. 78	9. 69 9. 69 9. 67 9. 67 9. 67 9. 67 9. 61 9. 61	0. 02 0. 02 0. 02 0. 02 0. 05 0. 05 0. 05 0. 09 0. 10	37. 76 48. 64 22. 80 34. 78 21. 69 27. 41 22. 60 31. 26 20. 49	54. 59 64. 59 50. 21 60. 21 46. 00 56. 00 46. 00 50. 00	-16. 83 -15. 95 -27. 41 -25. 43 -24. 31 -28. 59 -23. 40 -24. 74 -29. 51	Average QP Average QP Average QP Average QP Average
11	5. 156 18. 777 18. 777	19. 49 16. 01 19. 71	9. 61 9. 69 9. 69	0. 10 0. 18 0. 18	29. 20 25. 88 29. 58	60. 00 50. 00 60. 00	-30.80 -24.12 -30.42	QP Average QP

^{1:} Measured=Reading + LISN Factor + Cable Loss





Remark:

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



5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)		
Test Method:	ANSI C63.10:2013		
Test Setup:	Spectrum Analyzer Non-Conducted Table		
Limit:	21dBm		
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 DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.		
Test Results:	Pass		



Measurement Data

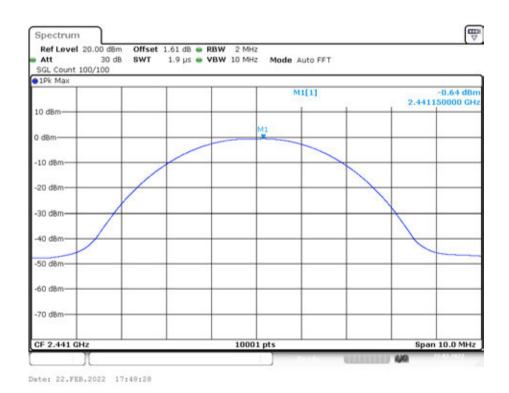
Measurement Data							
	GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	0.15	30.0	Pass				
Middle	-0.64	30.0	Pass				
Highest	-0.87	30.0	Pass				
	π/4DQPSK mo	ode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	1.73	21.00	Pass				
Middle	1.21	21.00	Pass				
Highest	0.92	21.00	Pass				
•	8DPSK mod	e					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	1.70	21.00	Pass				
Middle	0.94	21.00	Pass				
Highest	1.04	21.00	Pass				



Test plot as follows:

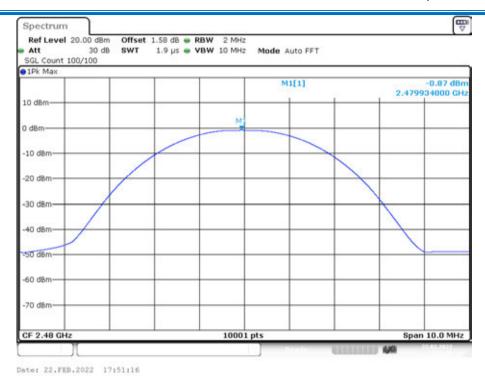


Power NVNT 1-DH5 2402MHz Ant1

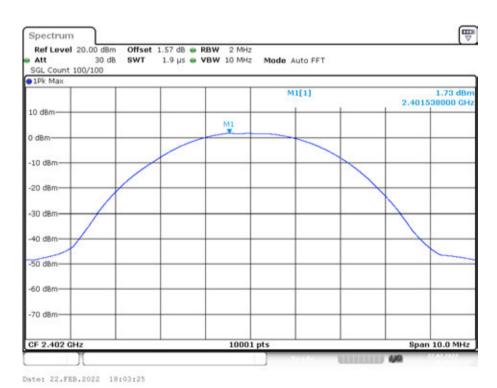


Power NVNT 1-DH5 2441MHz Ant1



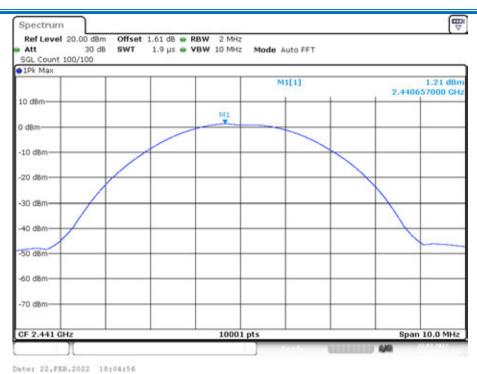


Power NVNT 1-DH5 2480MHz Ant1

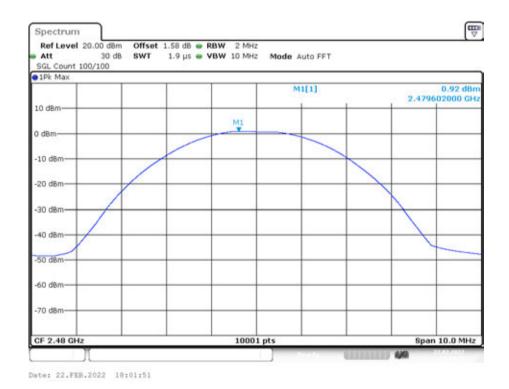


Power NVNT 2-DH5 2402MHz Ant1



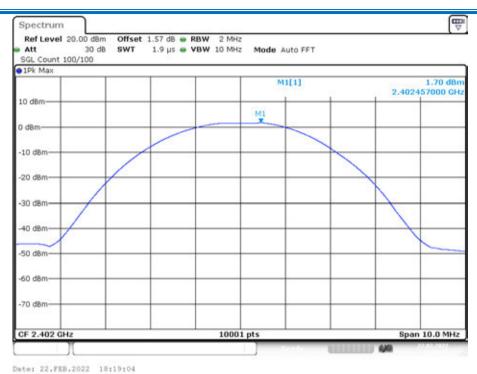


Power NVNT 2-DH5 2441MHz Ant1

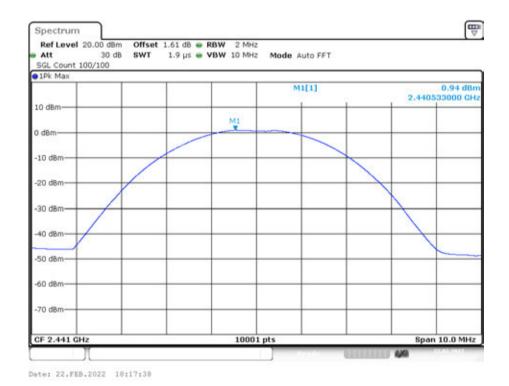


Power NVNT 2-DH5 2480MHz Ant1



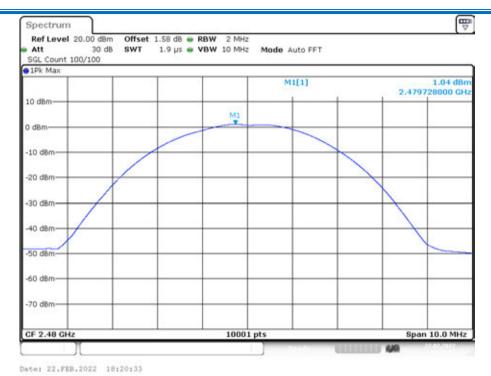


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

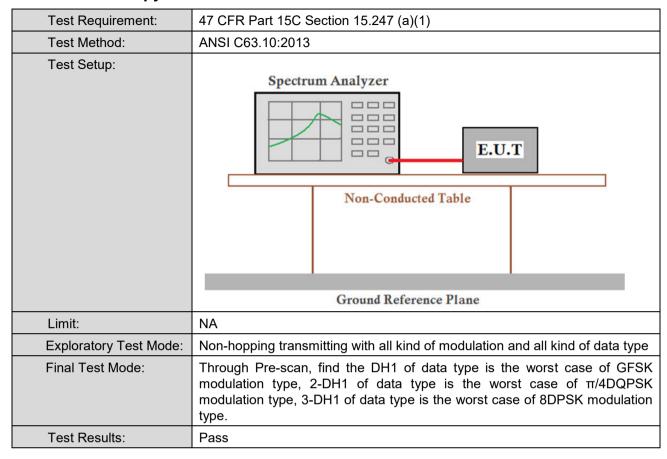




Power NVNT 3-DH5 2480MHz Ant1



5.4 20dB Occupy Bandwidth



Measurement Data

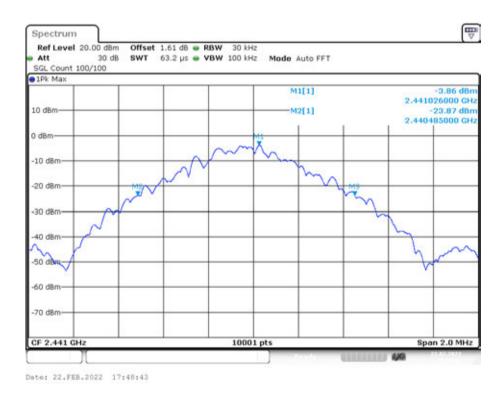
Test channel	20dB Occupy Bandwidth (kHz)			
rest channel	GFSK	π/4DQPSK	8DPSK	
Lowest	0.964	1.353	1.343	
Middle	0.965	1.353	1.343	
Highest	0.971	1.349	1.340	



Test plot as follows:-

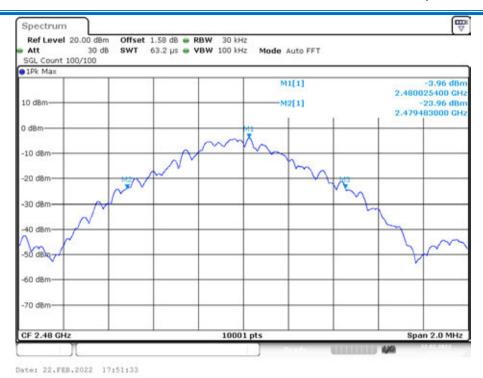


-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

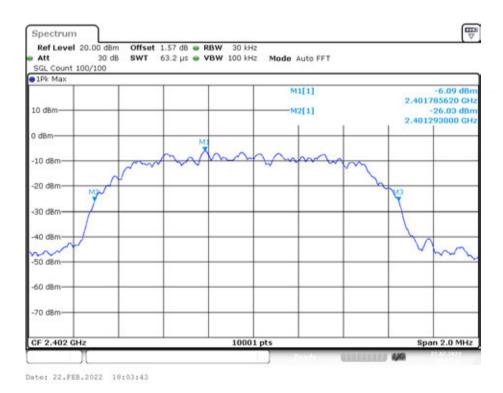


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



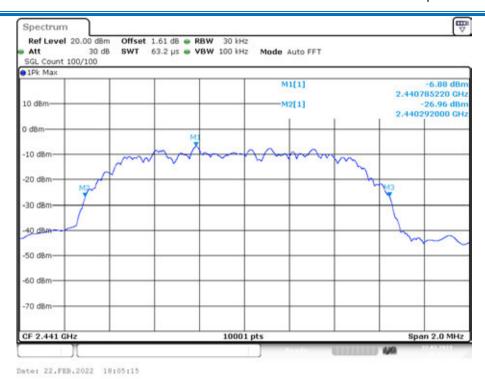


-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

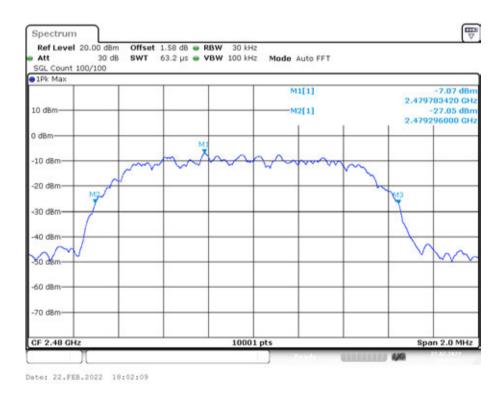


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

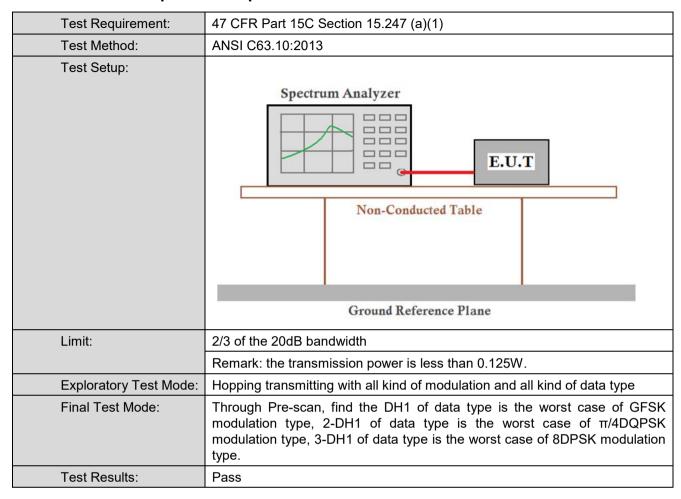


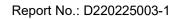


-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



5.5 Carrier Frequencies Separation





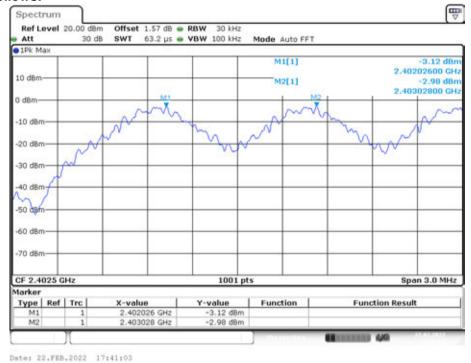


Measurement Data

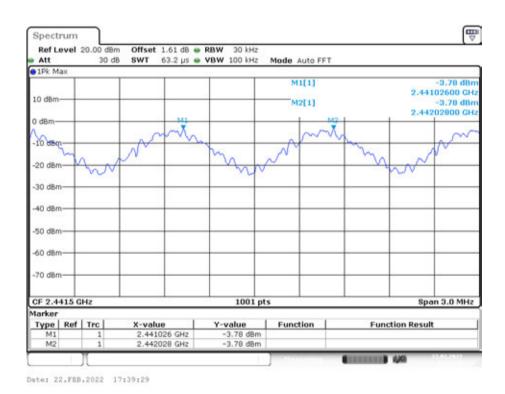
	leasurement bata				
	GFSK mod	le			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)			
Lowest	1.002	0.025	Pass		
Middle	1.002	0.025	Pass		
Highest	0.999	0.025	Pass		
	π/4DQPSK m	node			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result		
Lowest	0.999	0.025	Pass		
Middle	1.053	0.025	Pass		
Highest	1.005	0.025	Pass		
	8DPSK mo	de			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result		
Lowest	1.002	0.025	Pass		
Middle	1.002	0.025	Pass		
Highest	1.182	0.025 Pass			



Test plot as follows:

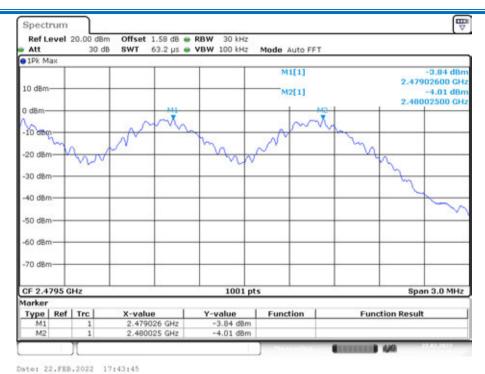


CFS NVNT 1-DH5 2402MHz Ant1

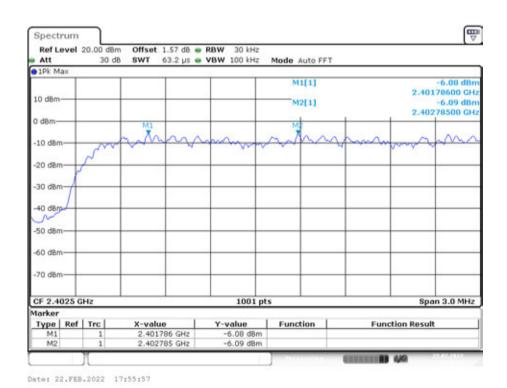


CFS NVNT 1-DH5 2441MHz Ant1



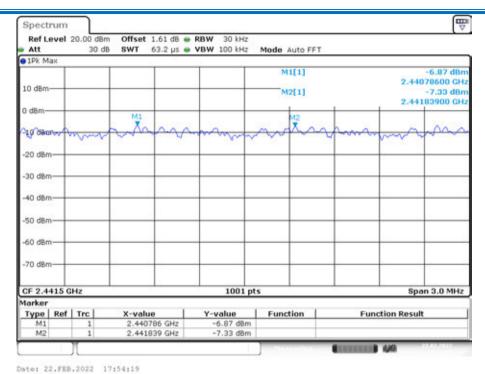


CFS NVNT 1-DH5 2480MHz Ant1

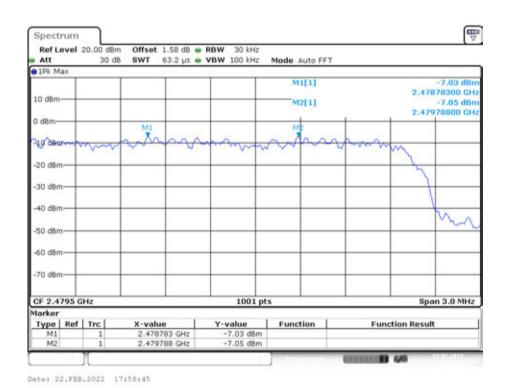


CFS NVNT 2-DH5 2402MHz Ant1



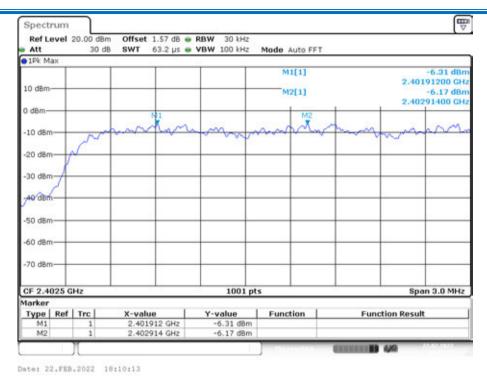


CFS NVNT 2-DH5 2441MHz Ant1

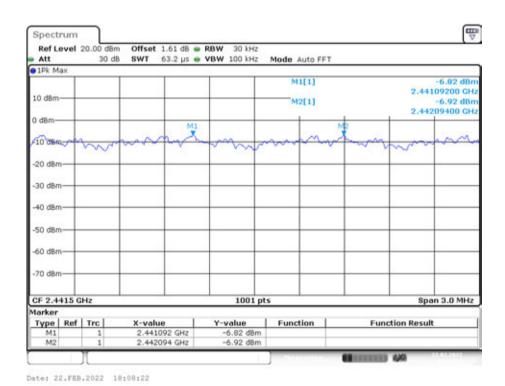


CFS NVNT 2-DH5 2480MHz Ant1



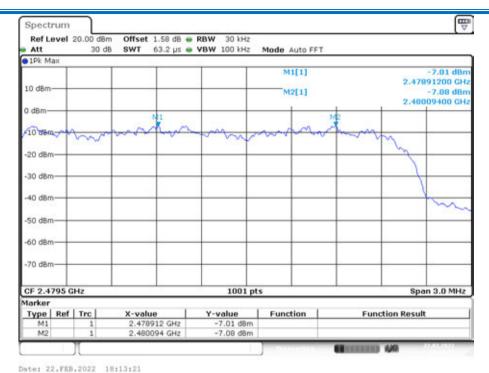


CFS NVNT 3-DH5 2402MHz Ant1

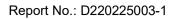


CFS NVNT 3-DH5 2441MHz Ant1





CFS NVNT 3-DH5 2480MHz Ant1





5.6 Hopping Channel Number

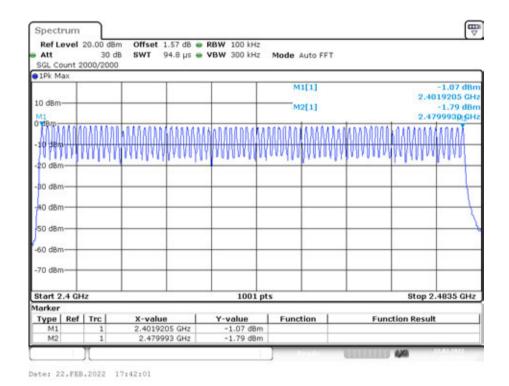
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Limit:	At least 15 channels		
Test Mode:	Hopping transmitting with all kind of modulation		
Test Results:	Pass		

Measurement Data

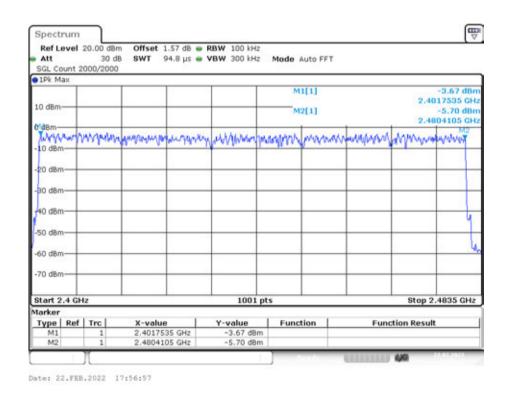
Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15



Test plot as follows:

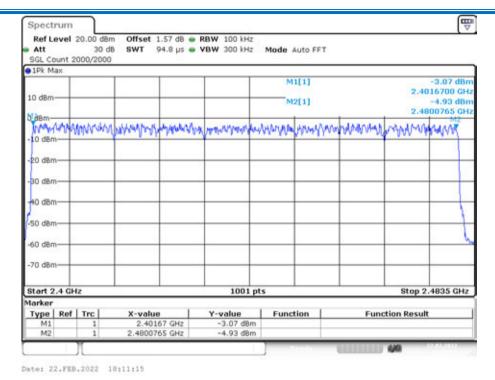


Hopping No. NVNT 1-DH5 2402MHz



Hopping No. NVNT 2-DH5 2402MHz

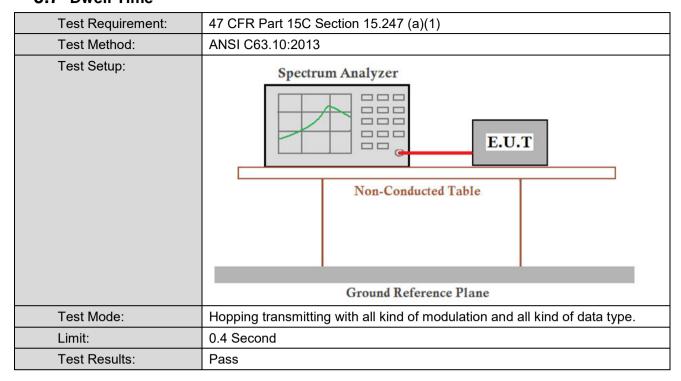




Hopping No. NVNT 3-DH5 2402MHz

Report No.: D220225003-1

5.7 Dwell Time



Measurement Data

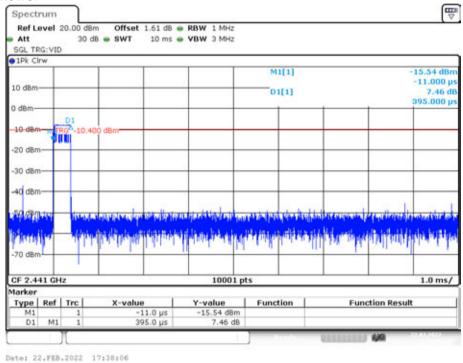
Mode	Packet	Pulse time (ms)	Dwell time [s]	Limit (second)
	DH1	0.395	126.4	≤0.4
GFSK	DH3	1.647	263.52	≤0.4
	DH5	2.919	311.36	≤0.4
π/4DQPSK	2-DH1	0.395	126.4	≤0.4
	2-DH3	1.638	262.08	≤0.4
	2-DH5	2.927	312.213	≤0.4
8DPSK	3-DH1	0.376	120.32	≤0.4
	3-DH3	1.647	263.52	≤0.4
	3-DH5	2.925	312	≤0.4

Test Result:

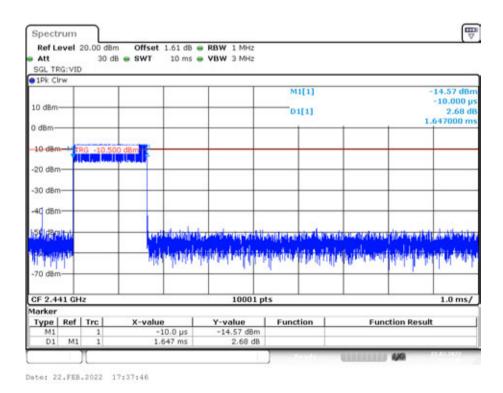
- 1. We have tested all mode at high, middle and low channel, and recoreded worst case.
 - 2. Dwell time=Pulse time (ms) × $(1600 \div 2 \div 79)$ ×31.6 Second for DH1, 2-DH1, 3-DH1 Dwell time=Pulse time (ms) × $(1600 \div 4 \div 79)$ ×31.6 Second for DH3, 2-DH3, 3-DH3 Dwell time=Pulse time (ms) × $(1600 \div 6 \div 79)$ ×31.6 Second for DH5, 2-DH5, 3-DH5



Test plot as follows:

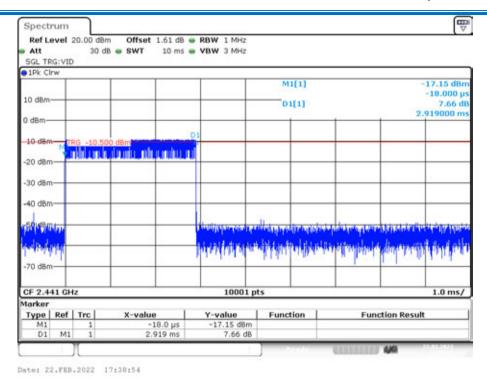


Dwell NVNT 1-DH1 2441MHz Ant1

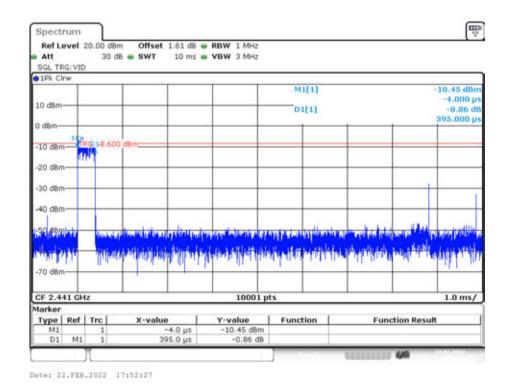


Dwell NVNT 1-DH3 2441MHz Ant1



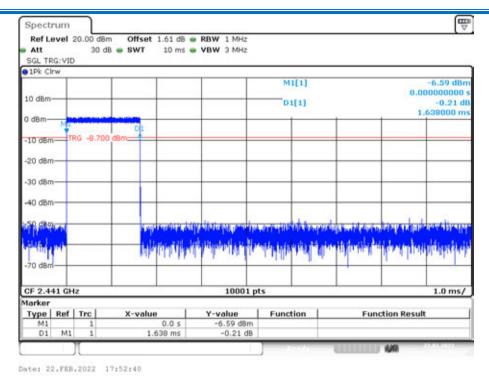


Dwell NVNT 1-DH5 2441MHz Ant1

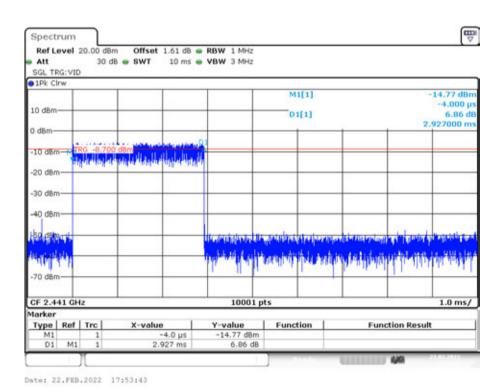


Dwell NVNT 2-DH1 2441MHz Ant1



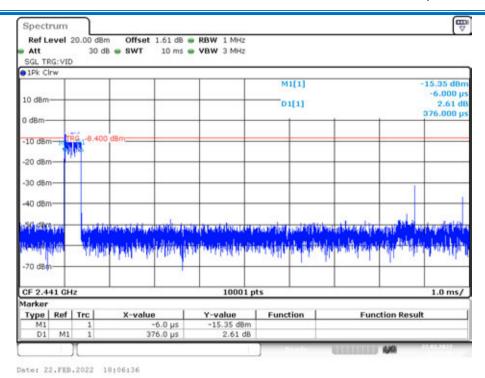


Dwell NVNT 2-DH3 2441MHz Ant1

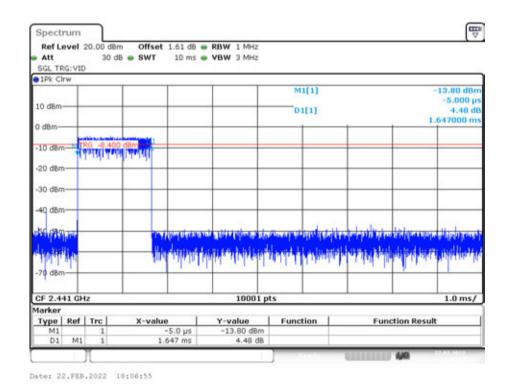


Dwell NVNT 2-DH5 2441MHz Ant1



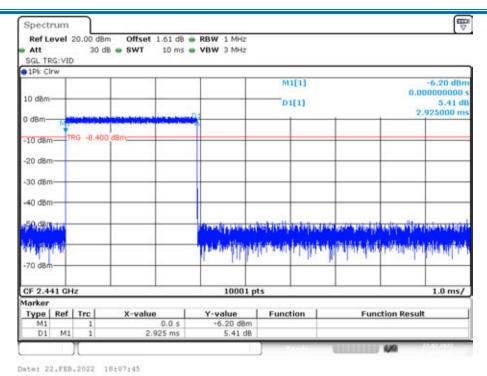


Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



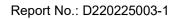


Dwell NVNT 3-DH5 2441MHz Ant1



5.8 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table					
	Ground Reference Plane					
	Remark: Factor: the High-Frequency cable loss 1.5dB in the spectrum analyzer.					
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.					
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 DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.					
Test Results:	Pass					





No-hopping mode

140 Hepping Head							
	GFSK mode						
Test channel	Frequency(MHz)	Emission Level(dBc)	Limit(dBc)	Result			
Lowest	2400	<-20	-20	Pass			
Highest	2483.5	<-20	-20	Pass			
_	π/4DQPSK mode						
Test channel	Frequency(MHz)	Emission Level(dBc)	Limit(dBc)	Result			
Lowest	2400	<-20	-20	Pass			
Highest	2483.5	<-20	-20	Pass			
	8DPSK mode						
Test channel	Frequency(MHz)	Emission Level(dBc)	Limit(dBc)	Result			
Lowest	2400	<-20	-20	Pass			
Highest	2483.5	<-20	-20	Pass			

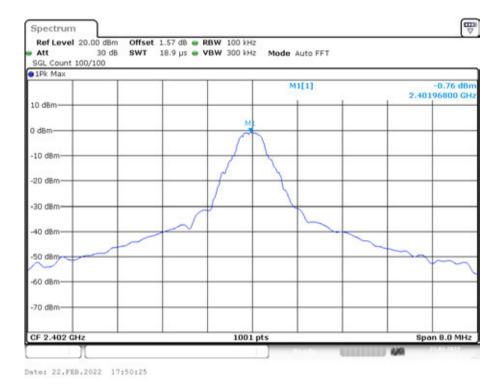
Hopping mode

riopping mode						
GFSK mode						
Test channel	Frequency(MHz)	Emission Level(dBc)	Limit(dBc)	Result		
Lowest	2400	<-20	-20	Pass		
Highest	2483.5	<-20	-20	Pass		
		π/4DQPSK mode				
Test channel	Frequency(MHz)	Emission Level(dBc)	Limit(dBc)	Result		
Lowest	2400	<-20	-20	Pass		
Highest	2483.5	<-20	-20	Pass		
		8DPSK mode				
Test channel	Frequency(MHz)	Emission Level(dBc)	Limit(dBc)	Result		
Lowest	2400	<-20	-20	Pass		
Highest	2483.5	<-20	-20	Pass		

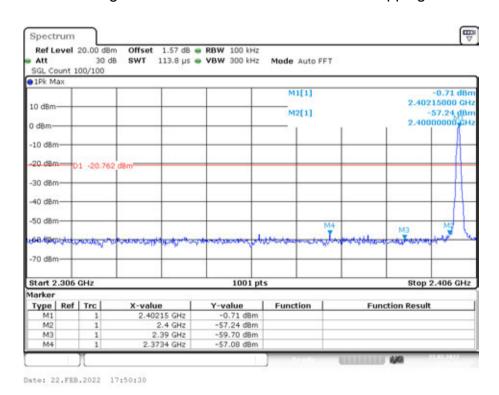


Test plot as follows:

Band Edge

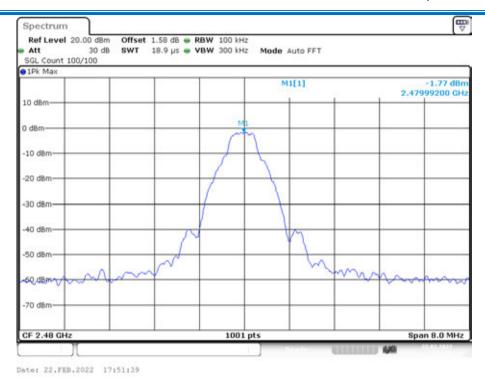


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

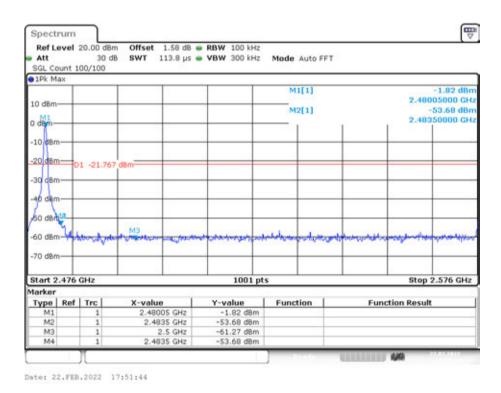


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



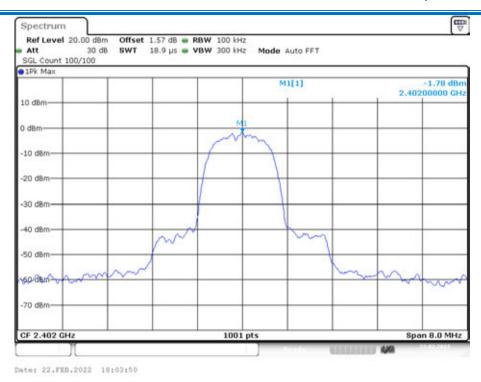


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

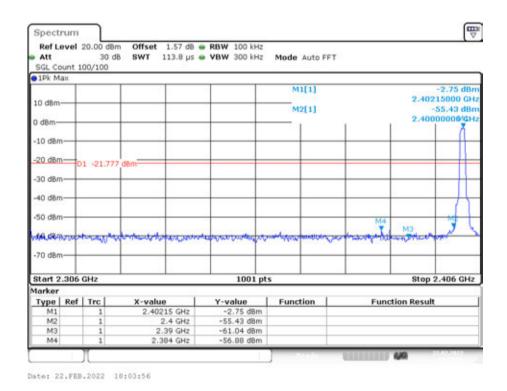


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



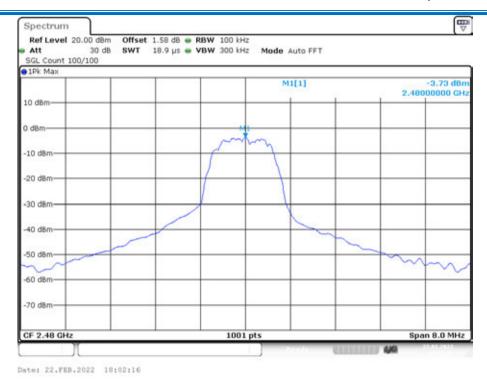


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

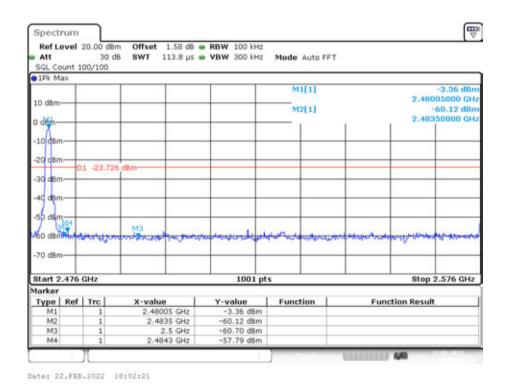


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



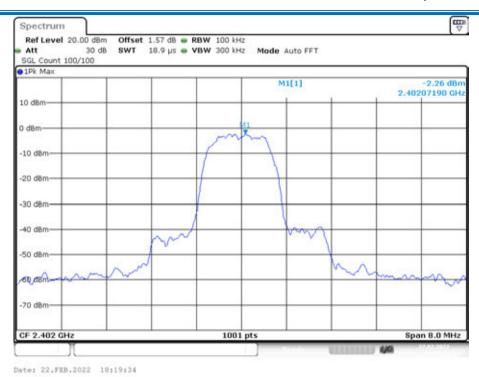


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

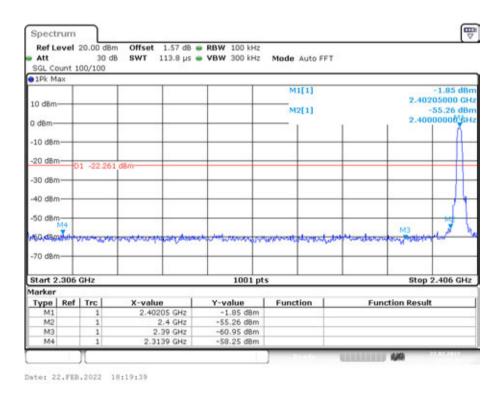


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



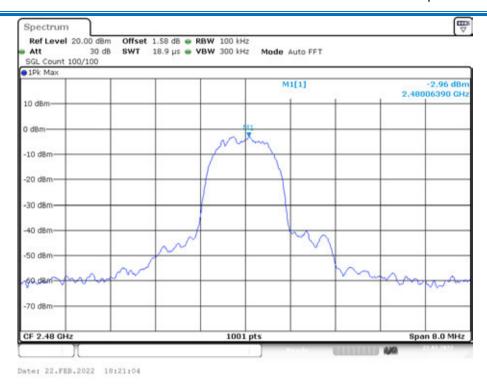


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

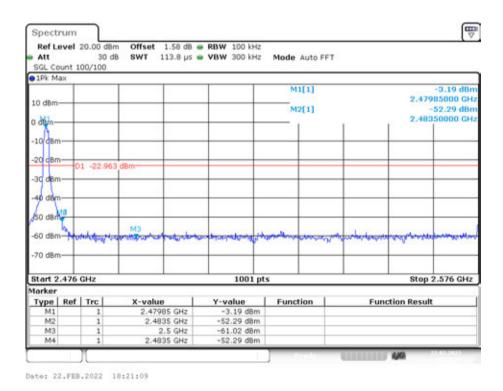


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission





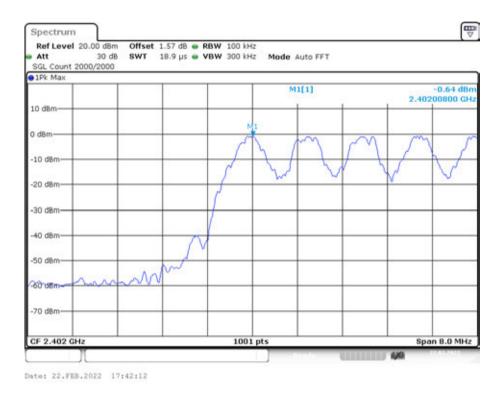
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



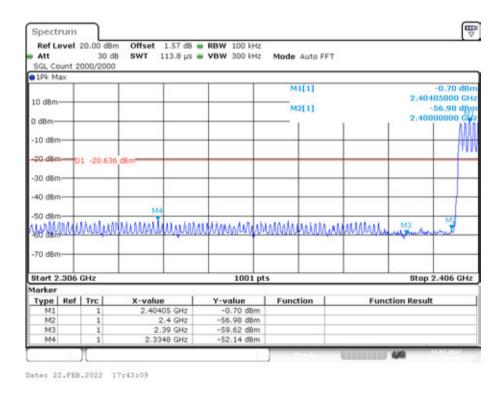
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge(Hopping)

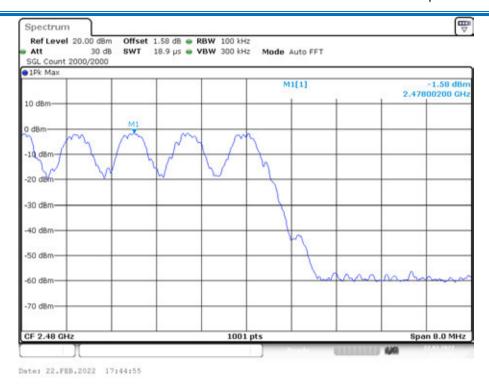


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

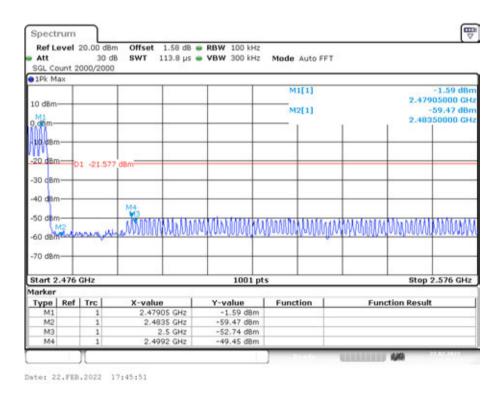


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



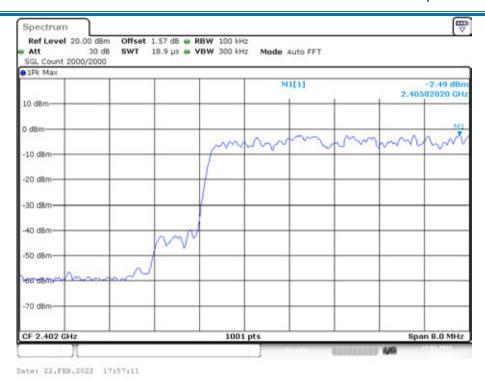


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

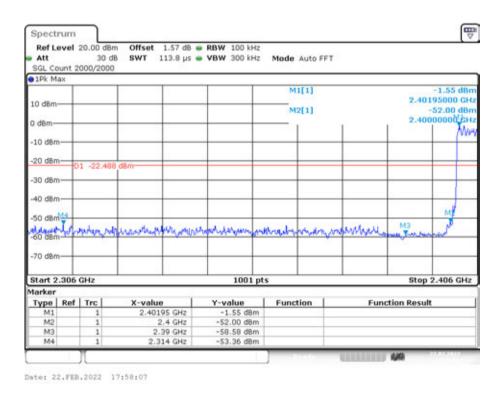


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission





Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

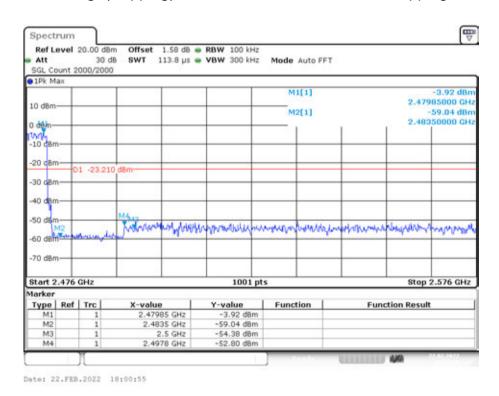


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



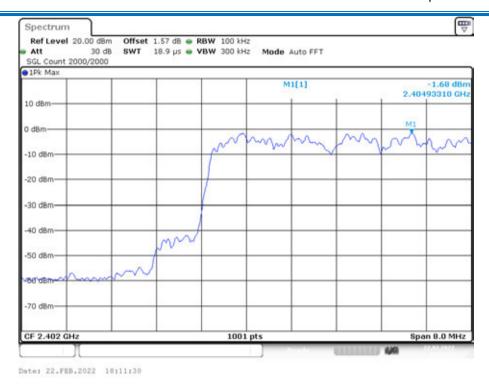


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

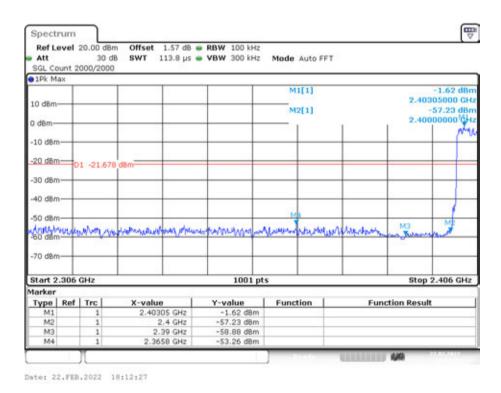


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission





Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

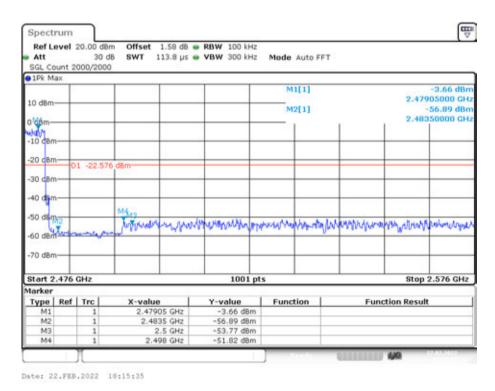


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission





Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



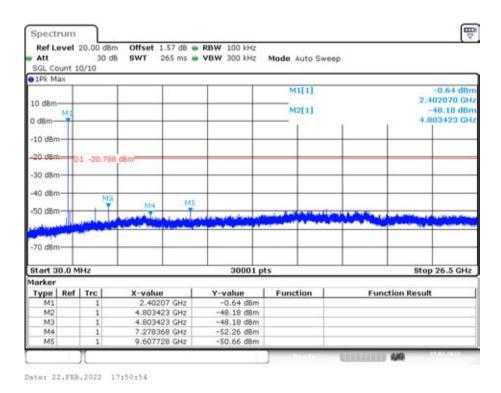
5.9 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
	Remark: Factor: the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
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.			
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 DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.			
Test Results:	Pass			



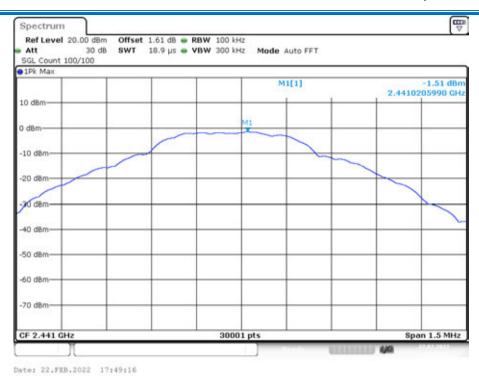


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

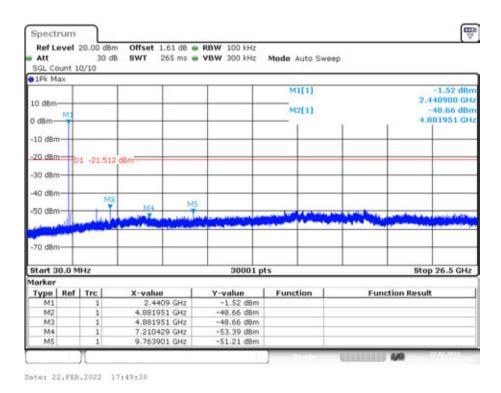


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



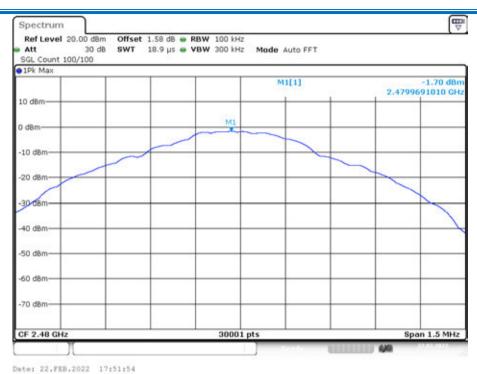


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

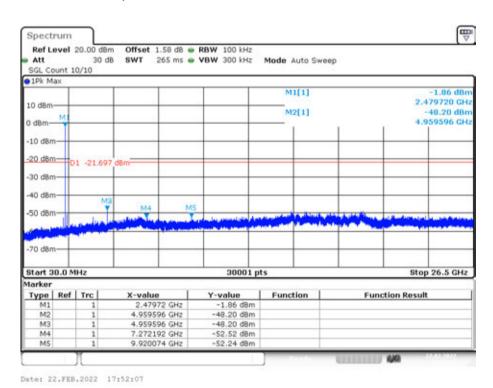


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



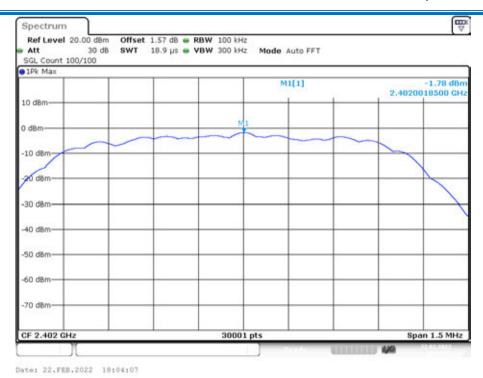


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

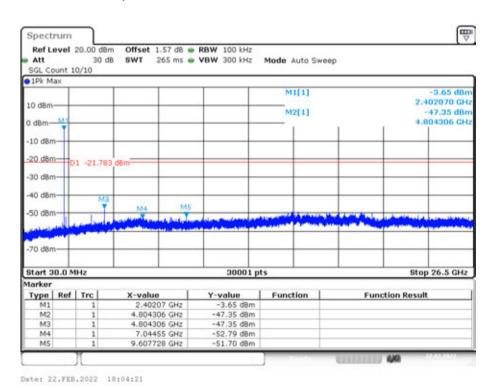


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



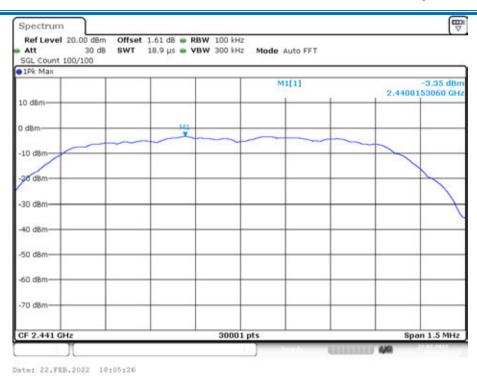


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

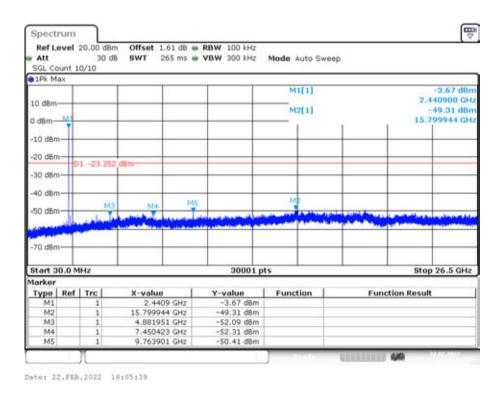


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



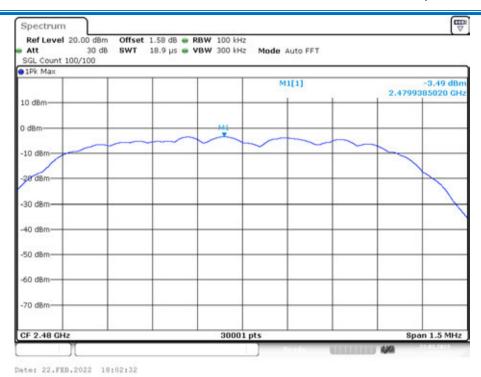


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

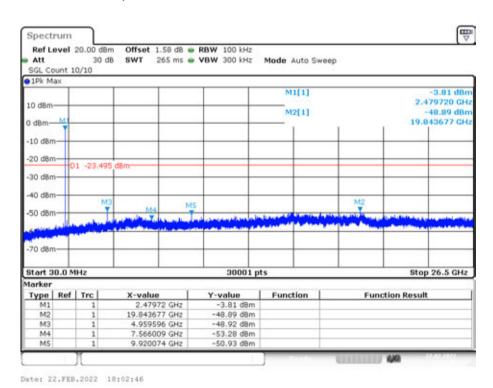


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



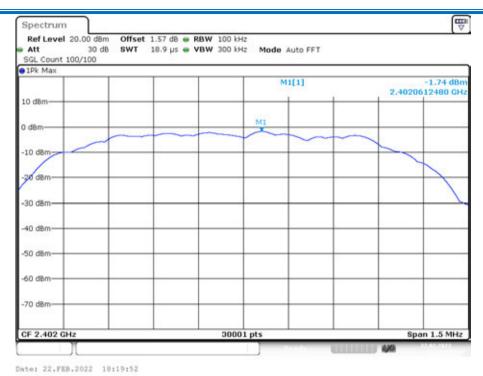


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

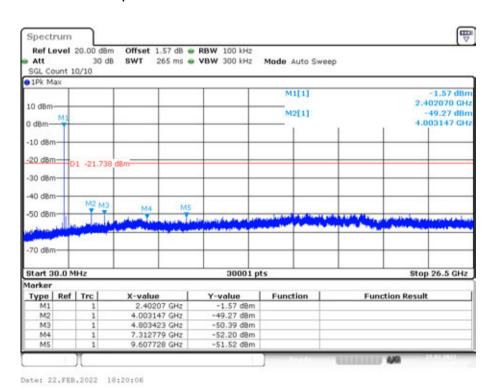


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



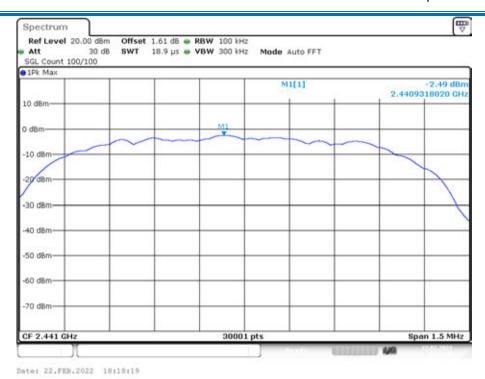


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

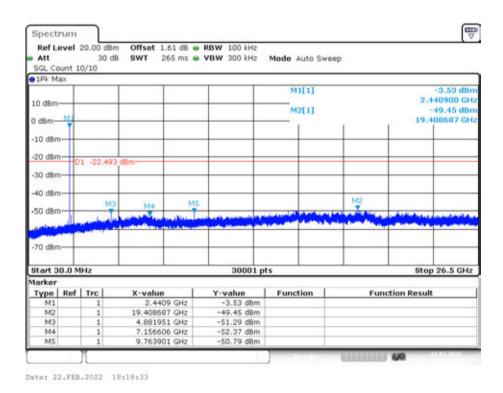


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



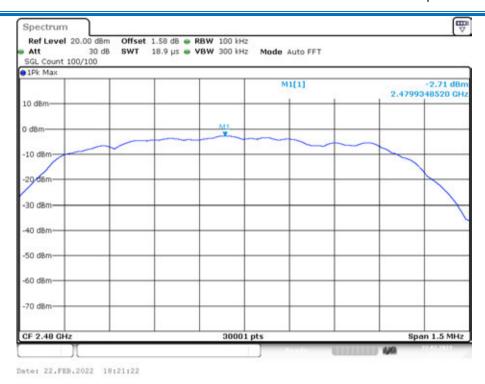


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

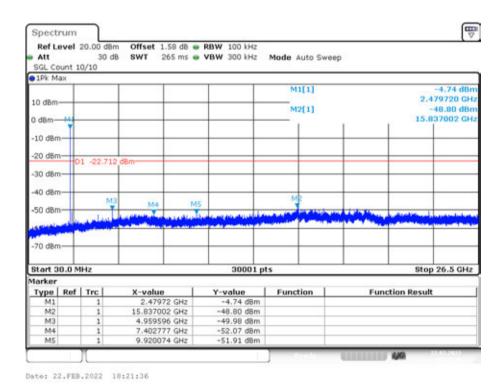


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission





Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

Remark:

Pre test 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



Report No.: D220225003-1

5.10 Other requirements Frequency Hopping Spread Spectrum System

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

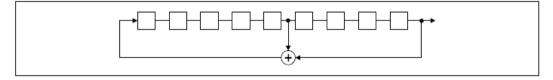
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage

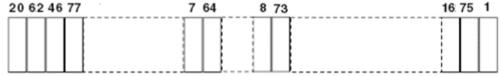
outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- · Number of shift register stages: 9
- Length of pseudo-random sequence: 29 -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

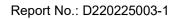
Compliance for section 15.247(h)



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According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

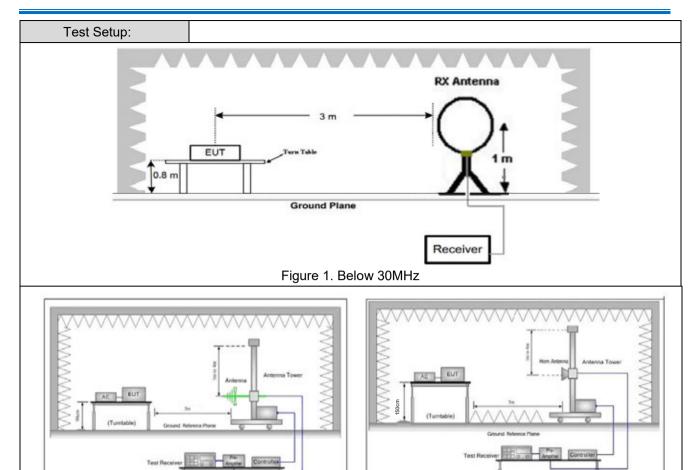




5.11 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	Z	Peak	10kHz	z 30kHz	Peak	
	0.009MHz-0.090MH	Z	Average	10kHz	z 30kHz	Average	
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	z 30kHz	Quasi-peak	
	0.110MHz-0.490MH	Z	Peak	10kHz	30kHz	Peak	
	0.110MHz-0.490MH	Z	Average	10kHz	z 30kHz	Average	
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak	
	30MHz-1GHz		Peak	100 k⊦	Iz 300kHz	Peak	
	Above 1GHz		Peak	1MHz	3MHz	Peak	
			Peak	1MHz	10Hz	Average	
Limit:	Frequency	Frequency Field stren		Limit (dBuV/m)	Remark	Measureme distance (n	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30	
	1.705MHz-30MHz	MHz 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		500	54.0	Quasi-peak	3	
	Above 1GHz 500		54.0	Average	3		
Note: 15.35(b), Unless otherwise specified, the limit on peak radio from emissions is 20dB above the maximum permitted average emispeciable to the equipment under test. This peak limit applies peak emission level radiated by the device.						emission limit	





Test Procedure:

Figure 2. 30MHz to 1GHz

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 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.
 - 2) Above 1G: 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.

Figure 3. Above 1 GHz

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode, For below 1GHz part, through prescan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass



5.11.1 Radiated Emission below 1GHz

9kHz~30MHz (PEAK)		
Test mode:	Transmitting	Vertical

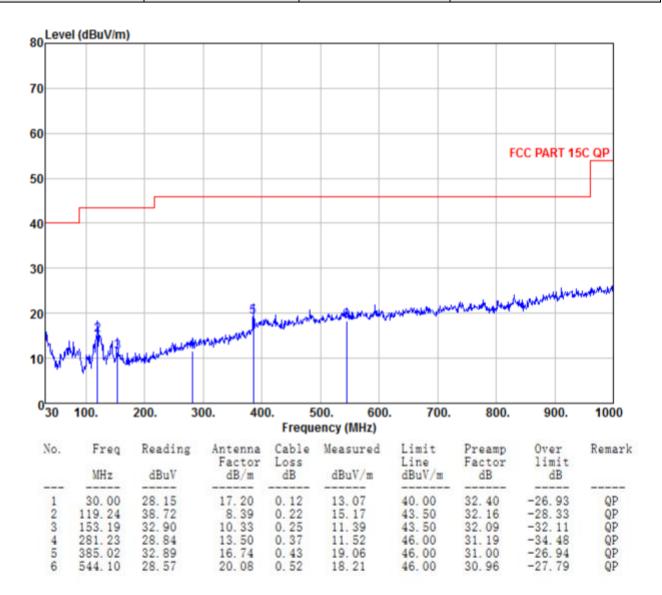
9kHz~30MHz Test result

The Low frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report



5.11.2 Radiated Emission below 1GHz

30MHz~1GHz (PEAK)			
Test mode:	Transmitting	Vertical	Battery1



Note: 1. Standards need to read Quasi-peak values. 2. Measured= Antenna Factor + Cable Loss + Reading - Preamp Factor



-32.85 -34.31

-22.06

-28.80

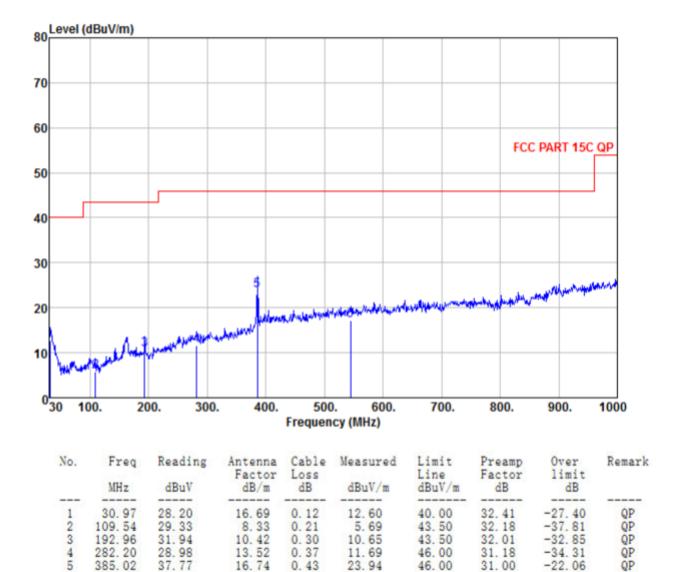
QP

QP

QP

QP

Test mode:	Transmitting	Horizontal	Battery1
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0.21

0.30

0.37

0.43

0.52

10.65

11.69

23.94

17.20

46.00 46.00

31.00 30.96

10.42

13. 52 16. 74

20.08

28. 98 37. 77

27.56

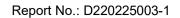
192.96 282.20

385.02

544.10

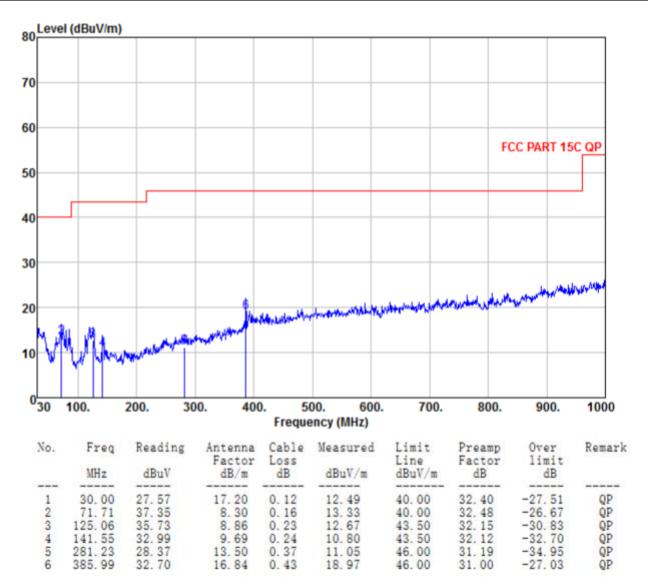
6

Note: 1. Standards need to read Quasi-peak values. 2. Measured= Antenna Factor + Cable Loss + Reading - Preamp Factor



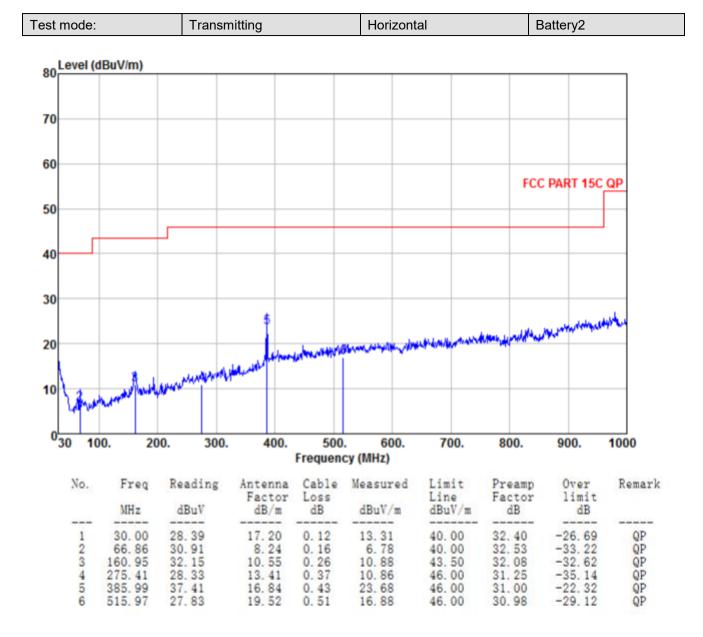


30MHz~1GHz (PEAK)					
Test mode:	Transmitting	Vertical	Battery2		



Note: 1. Standards need to read Quasi-peak values.
2. Measured= Antenna Factor + Cable Loss + Reading - Preamp Factor





Note: 1. Standards need to read Quasi-peak values. 2. Measured= Antenna Factor + Cable Loss + Reading - Preamp Factor

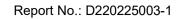


5.11.3 Transmitter Emission 1-26.5GHz

Worse case mode:	GFSK(DH5)	Test channel:	Lowest
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4804	49.06	-5.18	43.88	74	-30.12	peak	Н
4804	37.73	-5.18	32.55	54	-21.45	AVG	Н
7206	48.84	-6.45	42.39	74	-31.61	peak	Н
7206	35.71	-6.45	29.26	54	-24.74	AVG	Н
4804	50.13	-5.18	44.95	74	-29.05	peak	V
4804	37.34	-5.18	32.16	54	-21.84	AVG	V
7206	49.52	-6.45	43.07	74	-30.93	peak	V
7206	36.93	-6.45	30.48	54	-23.52	AVG	V

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2390	48.56	-4.36	44.2	74	-29.8	peak	Н
2390	35.27	-4.36	30.91	54	-23.09	AVG	Н
2400	53.5	-4.36	49.14	74	-24.86	peak	Н
2400	41.04	-4.36	36.68	54	-17.32	AVG	Н
2390	46.16	-4.36	41.8	74	-32.2	peak	V
2390	35.25	-4.36	30.89	54	-23.11	AVG	V
2400	54.83	-4.36	50.47	74	-23.53	peak	V
2400	41.8	-4.36	37.44	54	-16.56	AVG	V





Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Over	Detector Type	Ant. Pol. H/V
4882	54.26	-5.19	49.07	74	-24.93	peak	Н
4882	40.87	-5.19	35.68	54	-18.32	AVG	Н
7323	53.93	-6.47	47.46	74	-26.54	peak	Н
7323	42.84	-6.47	36.37	54	-17.63	AVG	Н
4882	56.89	-5.19	51.70	74	-22.30	peak	V
4882	44.04	-5.19	38.85	54	-15.15	AVG	V
7323	55.97	-6.47	49.50	74	-24.50	peak	V
7323	41.93	-6.47	35.46	54	-18.54	AVG	V



Worse case mode:	GFSK(DH5)	Test channel:	Highest
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Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
4960	53.15	-5.2	47.95	74	-26.05	peak	Н
4960	42.16	-5.2	36.96	54	-17.04	AVG	Н
7440	57.53	-6.47	51.06	74	-22.94	peak	Н
7440	45.27	-6.47	38.80	54	-15.20	AVG	Н
4960	58.56	-5.2	53.36	74	-20.64	peak	V
4960	46.36	-5.2	41.16	54	-12.84	AVG	V
7440	58.49	-6.47	52.02	74	-21.98	peak	V
7440	44.39	-6.47	37.92	54	-16.08	AVG	V

Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	H/V
2483.5	63.02	-4.22	58.80	74	-15.20	peak	Н
2483.5	49.25	-4.22	45.03	54	-8.97	AVG	Н
2483.5	62.48	-4.22	58.26	74	-15.74	peak	V
2483.5	48.39	-4.22	44.17	54	-9.83	AVG	V

Remark:

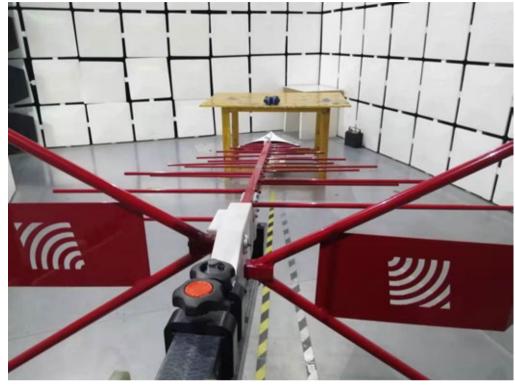
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
- Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low.



6 Photographs - EUT Test Setup

6.1 Radiated Emission

Below 1GHz:



Above 1GHz:



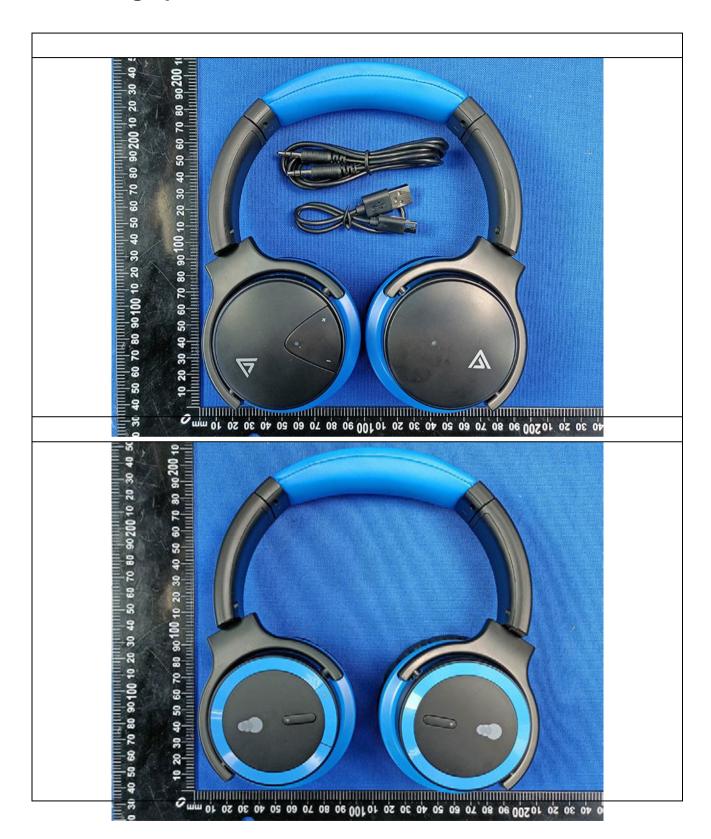


Conducted Emissions

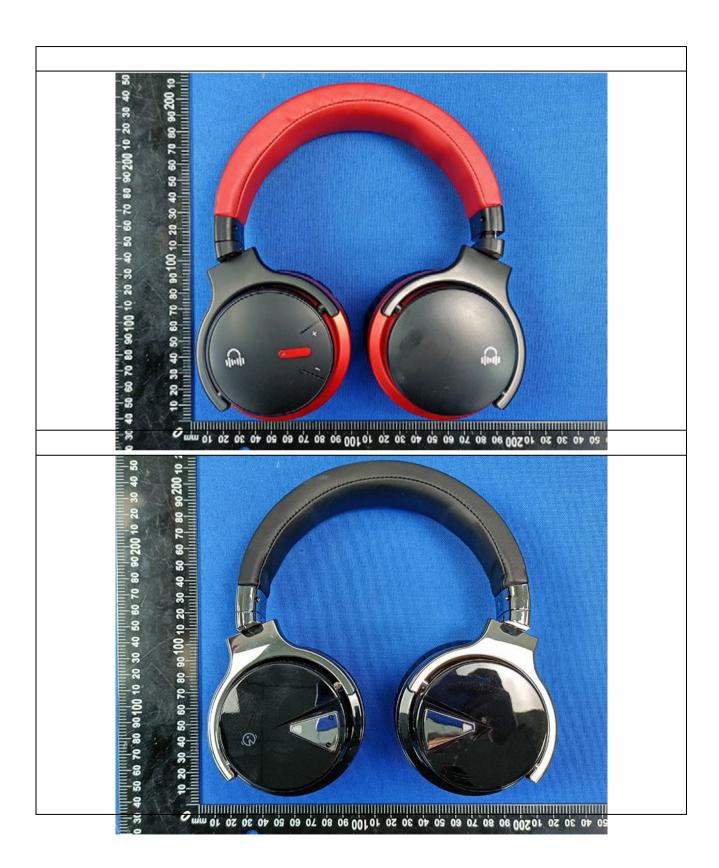




7 Photographs - EUT Constructional Details



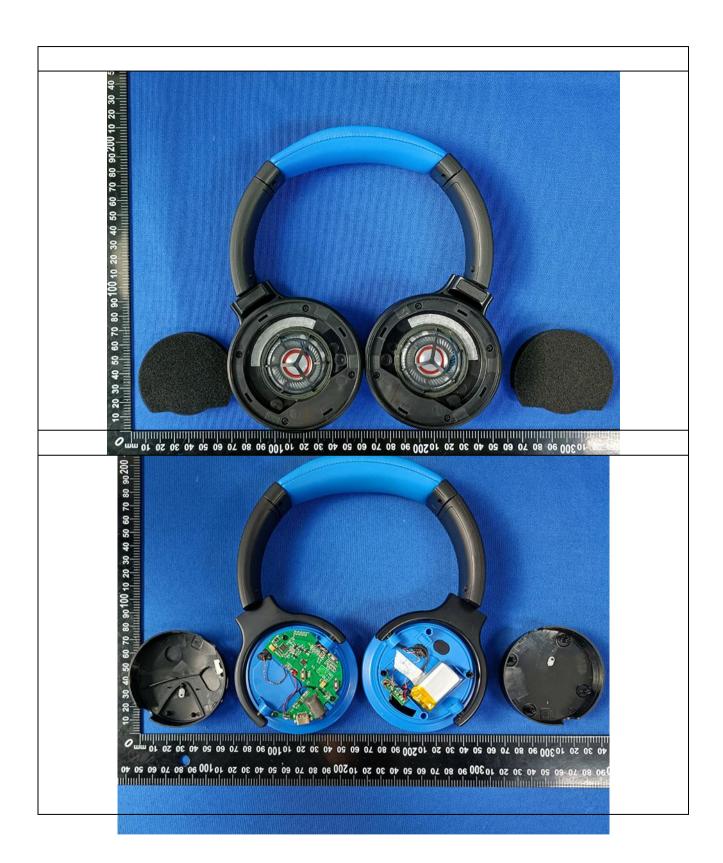




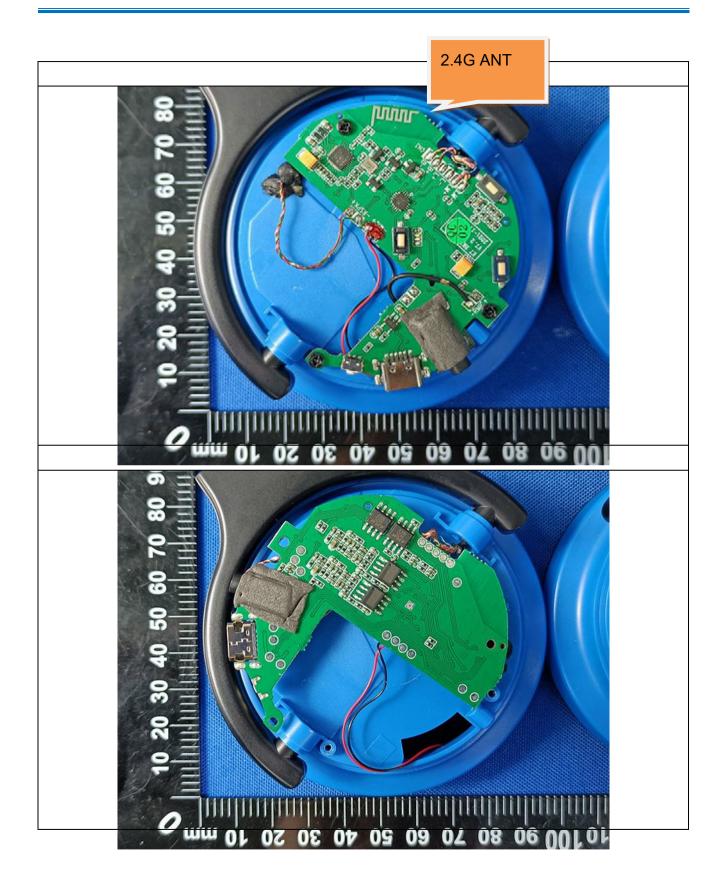


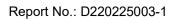




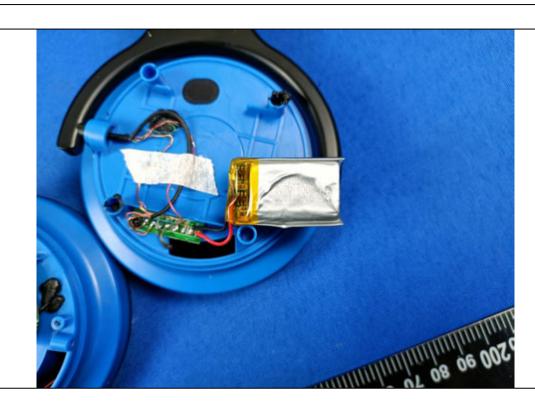




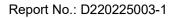




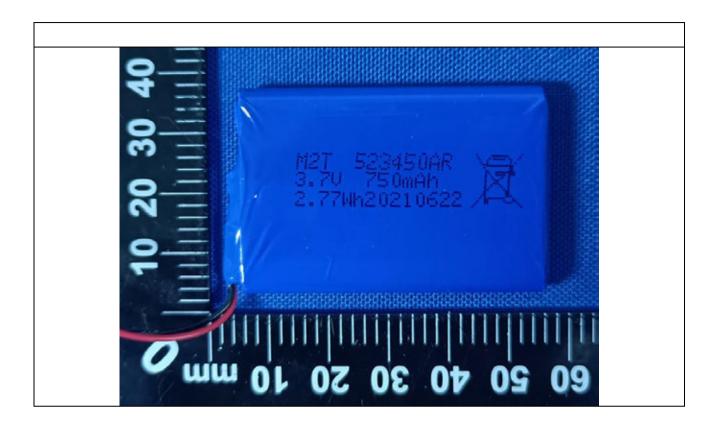












END OF THE REPORT