

Test Report

PEAG, LLC dba JLab Audio 2

- Address 5927 LANDAU CT, Carlsbad, CA 92008, United States
- **Product Name** Wireless Speaker

(JA)

п

Brand	Mark
Model	

Model:JLab GO PartySeries model:N/AFCC ID:2AHYV-GOSPReport Number:BLA-EMC-202501-A4102Date of Receipt:Jan. 10, 2025Date of Test:Jan. 10, 2025 to Jan. 20, 2025Test Standard:47 CFR Part 15, Subpart C 15.247Test Result:Pass		•	
FCC ID: 2AHYV-GOSPReport Number: BLA-EMC-202501-A4102Date of Receipt: Jan. 10, 2025Date of Test: Jan. 10, 2025 to Jan. 20, 2025Test Standard: 47 CFR Part 15, Subpart C 15.247	Model	:	JLab GO Party
Report Number : BLA-EMC-202501-A4102 Date of Receipt : Jan. 10, 2025 Date of Test : Jan. 10, 2025 to Jan. 20, 2025 Test Standard : 47 CFR Part 15, Subpart C 15.247	Series model	:	N/A
Date of Receipt : Jan. 10, 2025 Date of Test : Jan. 10, 2025 to Jan. 20, 2025 Test Standard : 47 CFR Part 15, Subpart C 15.247	FCC ID	:	2AHYV-GOSP
Date of Test : Jan. 10, 2025 to Jan. 20, 2025 Test Standard : 47 CFR Part 15, Subpart C 15.247	Report Number	:	BLA-EMC-202501-A4102
Test Standard:47 CFR Part 15, Subpart C 15.247	Date of Receipt	:	Jan. 10, 2025
	Date of Test	:	Jan. 10, 2025 to Jan. 20, 2025
Test Result : Pass	Test Standard	:	47 CFR Part 15, Subpart C 15.247
	Test Result	:	Pass

Compiled by: Mark then Review by: Sweet



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Revise Record

Version No.	Date	Description
01	Feb. 10, 2025	Original

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1 General information

1.1 General information

Applicant	PEAG, LLC dba JLab Audio		
Address	5927 LANDAU CT, Carlsbad, CA 92008, United States		
Manufacturer	GuangDong Simpreal Intelligent Technology Co., Ltd		
Address	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13,		
	DongCheng District, DongGuan City, GuangDong Province, P.R. China		
Factory	GuangDong Simpreal Intelligent Technology Co., Ltd		
Address	Room 2408, JiaHong ZhenXing DaSha, DongGuan Avenue #13,		
Address	DongCheng District, DongGuan City, GuangDong Province, P.R. China		

1.2 General description of EUT

Product Name	Wireless Speaker			
Model No.	JLab GO Party			
Operation Frequency:	2402MHz-2480MHz			
Modulation Type:	GFSK, π/4DQPSK, 8DPSK			
Channel Spacing:	1MHz			
Number of Channels:	79			
Antenna Type:	PCB antenna			
Antenna Gain:	-0.58dBi (Provided by customer)			
Power supply:	Battery DC 3.7V			
Test Voltage:	DC 3.7V			
Hardware Version	N/A			
Software Version	N/A			
Note: For a more detailed description, please refer to Specification or User's Manual supplied by				

the applicant and/or manufacturer.

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2 Test summary

No.	Test item	FCC standard	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2013 Clause 6.2	Pass
3	Conducted Peak Output Power	§ 15.247 (b)(1)	ANSI C63.10-2013 Clause 7.8.5	Pass
4	20dB Bandwidth	§ 15.247 (a)(1)	ANSI C63.10-2013 Clause 6.9.2	Pass
5	Conducted Band Edges Measurement	§ 15.247 (d)	ANSI C63.10-2013 Clause 7.8.6	Pass
6	Conducted Spurious Emissions	§ 15.247 (d)	ANSI C63.10-2013 Clause 7.8.8	Pass
7	Carrier Frequencies Separation	§ 15.247 (a)(1)	ANSI C63.10-2013 Clause 7.8.2	Pass
8	Hopping Channel Number	§ 15.247 (a)(1) (iii)	ANSI C63.10-2013 Clause 7.8.3	Pass
9	Dwell Time	§ 15.247 (a)(1) (iii)	ANSI C63.10-2013 Clause 7.8.4	Pass
10	Radiated Spurious Emissions	§ 15.247 (d) § 15209	ANSI C63.10-2013 Clause 6.4,6.5,6.6	Pass
11	Radiated Emissions which fall in the restricted bands	§ 15.247 (d) § 15.205	ANSI C63.10-2013 Clause 6.10.5	Pass

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3 Test Configuration

3.1 Test mode

Test Mode Note 1	Description
ТХ	Keep the EUT in continuously transmitting mode with modulation. (hopping and
	non-hopping mode all have been tested)
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode ^{Note 2} to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software						
Test Software Name FCC Assist						
Mode	Channel Frequency (MHz) Soft Set					
	CH00	2402				
ТХ	CH39	2441	TX level : Default			
	CH78	2480				

3.2 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

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2407MHz	25	04070411-	. –			
		2427MHz	45	2447MHz	65	2467MHz
2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
2421MHz	39	2441MHz	59	2461MHz		
	2410MHz 2411MHz 2412MHz 2413MHz 2413MHz 2414MHz 2415MHz 2416MHz 2416MHz 2417MHz 2418MHz 2419MHz 2420MHz	2410MHz 28 2411MHz 29 2412MHz 30 2413MHz 31 2413MHz 31 2414MHz 32 2415MHz 33 2416MHz 34 2417MHz 35 2418MHz 36 2419MHz 37 2420MHz 38 2421MHz 39	2410MHz 28 2430MHz 2411MHz 29 2431MHz 2412MHz 30 2432MHz 2413MHz 31 2433MHz 2413MHz 31 2433MHz 2413MHz 32 2434MHz 2414MHz 32 2434MHz 2415MHz 33 2435MHz 2416MHz 34 2436MHz 2417MHz 35 2437MHz 2418MHz 36 2438MHz 2419MHz 37 2439MHz 2419MHz 38 2440MHz 2421MHz 39 2441MHz	2410MHz282430MHz482411MHz292431MHz492412MHz302432MHz502413MHz312433MHz512414MHz322434MHz522415MHz332435MHz532416MHz342436MHz542417MHz352437MHz552418MHz362438MHz562419MHz372439MHz572420MHz382440MHz582421MHz392441MHz59	2410MHz282430MHz482450MHz2411MHz292431MHz492451MHz2412MHz302432MHz502452MHz2413MHz312433MHz512453MHz2414MHz322434MHz522454MHz2415MHz332435MHz532455MHz2416MHz342436MHz542456MHz2417MHz352437MHz552457MHz2418MHz362438MHz562458MHz2419MHz372439MHz572459MHz2420MHz382440MHz582460MHz2421MHz392441MHz592461MHz	2410MHz282430MHz482450MHz682411MHz292431MHz492451MHz692412MHz302432MHz502452MHz702413MHz312433MHz512453MHz712414MHz322434MHz522454MHz722415MHz332435MHz532455MHz732416MHz332436MHz542456MHz742417MHz352437MHz552457MHz752418MHz362438MHz562458MHz762419MHz372439MHz572459MHz772420MHz382440MHz582460MHz782421MHz392441MHz592461MHz78

3.3 Test channel

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



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3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
AC adapter	PISEN	ZY2207-A521H	/	/
Note:				
" mean no any auxiliary device during testing.				

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 3.7V

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4 Laboratory information

4.1 Laboratory and accreditations

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

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.			
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China			
CNAS accredited No.:	L9788			
A2LA Cert. No.:	5071.01			
FCC Designation No.:	CN1252			
ISED CAB identifier No.:	CN0028			
Telephone:	+86-755-28682673			
FAX:	+86-755-28682673			

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-0	Anechoic	9*6*6	SKET	N/A	2024/3/27	2027/3/26
	chamber	chamber			202 170721	2021/0/20
BLA-EMC-002-0	2 Control roo	m 966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receive	er ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-043	Loop antenr	na FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	I VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cab	le N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cab	le N/A	BlueAsia	V02	N/A	N/A
Radiated Spur	ious Emission	s (Above 1GHz)				
Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001 -01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001 -02	Control Room	966 control room	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2024/08/08	2025/08/07
BLA-EMC-012	Broadband antenna	VULB9168	Schwarzbeck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G- 45	SKET	PA201804300 3	2024/08/08	2025/08/07
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/06/28	2025/06/27
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/06/28	2025/06/27
BLA-EMC-066	Amplifier	LNPA_30M01 G-30	SKET	SK202106080 1	2024/06/28	2025/06/27
BLA-EMC-086	Amplifier	LNPA_18G40 G-50dB	SKET	SK202207130 1	2024/06/28	2025/06/27
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A

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BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A
RF conducted	l					
Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003- 003	Shield room	5*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2024/06/28	2025/06/27
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2024/08/08	2025/08/07
BLA-EMC-042	Power sensor	RPR3006W	DARE	14100889SN0 42	2024/08/08	2025/08/07
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2024/08/08	2025/08/07
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2024/06/28	2025/06/27
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2024/08/08	2025/08/07
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2024/06/28	2025/06/27
Conducted Em	issions					

Conducted Emissions

Equipment	Name	Model	Manufactu re	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-011	LISN	ENV216	R&S	101372	2024/08/08	2025/08/07
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2024/06/28	2025/06/27
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK180600 0003	2024/08/08	2025/08/07
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2024/08/08	2025/08/07
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbe ck	01045	2024/06/28	2025/06/27
BLA-EMC-096	Single-channel vehicle artificial	NNBM 8124	Schwarzbe ck	01075	2024/06/28	2025/06/27

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	power network					
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

Test Software Record:

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF

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6 Test result

6.1 Antenna requirement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

6.1.1 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is PCB antenna. The best case gain of the antenna is -0.58dBi.







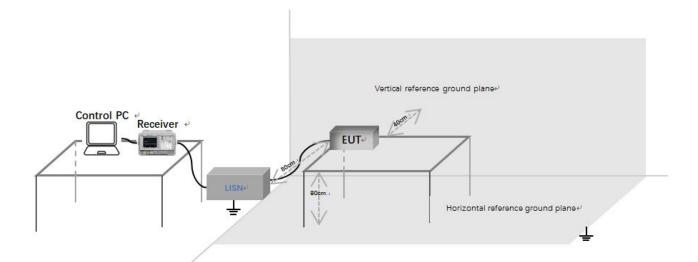
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

Test Standard	47 CFR Part 15, Subpart C 15.247	
Test Method	ANSI C63.10 (2013) Section 6.2	
Test Mode (Pre-Scan)	ТХ	
Test Mode (Final Test)	ТХ	

6.2.1 Limit

6.2.1 Limit		
	Conducted	limit(dBµV)
Frequency of emission(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 of the frequency.		

6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable; a)
- The receiver is connected to the LISN through a coaxial line; b)
- Connect the power port of LISN to the EUT. c)

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6.2.3 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 50ohm/50H + 5ohm 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.
- 5) 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 on conducted measurement.

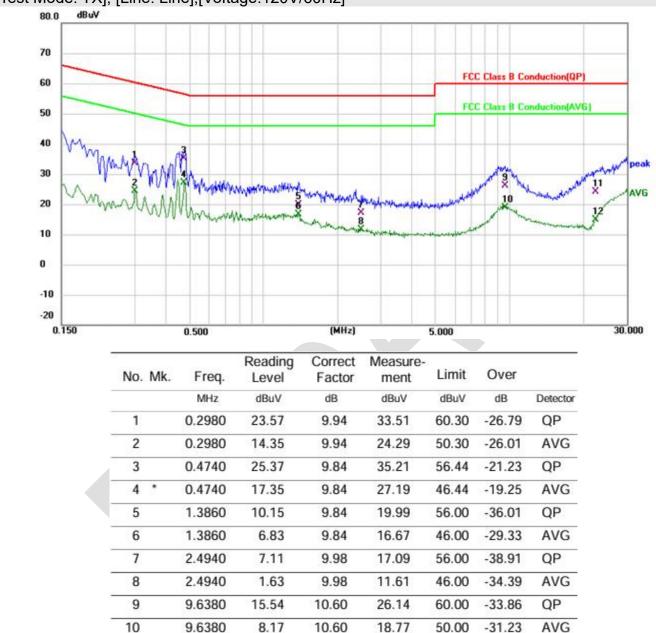
LISN=Read Level+ Cable Loss+ LISN Factor

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6.2.4 Test data



[Test Mode: TX]; [Line: Line];[Voltage:120V/60Hz]

Test Result: Pass

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11

12

22.5060

22.5060

11.08

1.84

13.11

13.11

24.19

14.95

60.00

50.00

-35.81

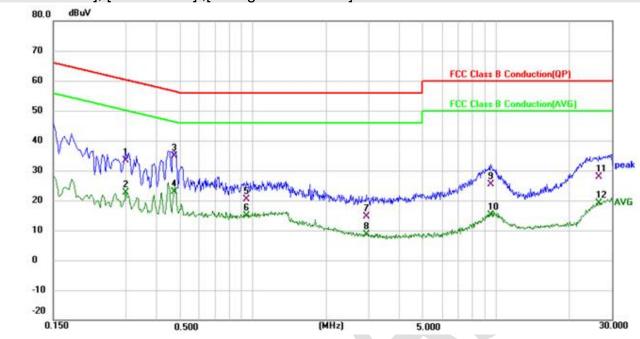
-35.05

QP

AVG



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[Test Mode: TX]; [Line: Nutral] ;[Voltage:120V/60Hz]

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2980	23.45	9.86	33.31	60.30	-26.99	QP
2		0.2980	12.75	9.86	22.61	50.30	-27.69	AVG
3	•	0.4700	25.05	9.79	34.84	56.51	-21.67	QP
4		0.4700	13.11	9.79	22.90	46.51	-23.61	AVG
5		0.9420	10.66	9.70	20.36	56.00	-35.64	QP
6		0.9420	5.29	9.70	14.99	46.00	-31.01	AVG
7		2.9180	4.79	9.92	14.71	56.00	-41.29	QP
8		2.9180	-1.21	9.92	8.71	46.00	-37.29	AVG
9		9.5340	14.76	10.61	25.37	60.00	-34.63	QP
10		9.5340	4.52	10.61	15.13	50.00	-34.87	AVG
11		26.5820	14.87	13.09	27.96	60.00	-32.04	QP
12		26.5820	6.00	13.09	19.09	50.00	-30.91	AVG

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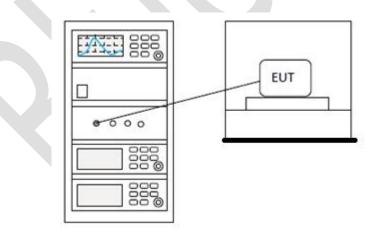
6.3 Conducted peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247	
Test Method	ANSI C63.10 (2013) Section 7.8.5	
Test Mode (Pre-Scan)	ТХ	
Test Mode (Final Test)	ТХ	

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

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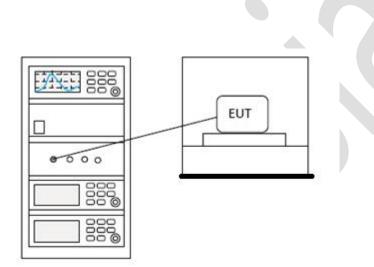


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6.420dB Bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247	
Test Method	ANSI C63.10 (2013) Section 7.8.7	
Test Mode (Pre-Scan)	ТХ	
Test Mode (Final Test)	ТХ	

6.4.1 Test setup



6.4.2 Test data

Pass: Please refer to appendix A for details

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6.5 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

6.5.1 Limit

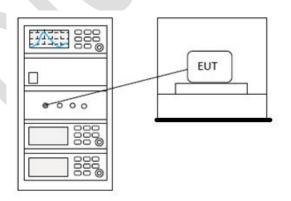
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

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6.6 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

6.6.1 Limit

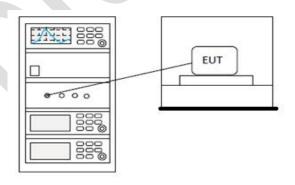
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

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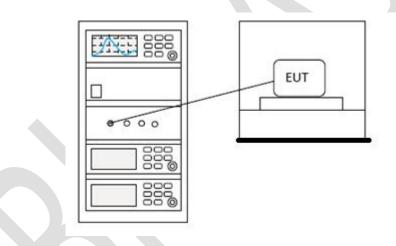
6.7 Carrier Frequencies Separation

Test Standard	47 CFR Part 15, Subpart C 15.247	
Test Method	ANSI C63.10 (2013) Section 7.8.2	
Test Mode (Pre-Scan)	ТХ	
Test Mode (Final Test)	ТХ	

6.7.1 Limit

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

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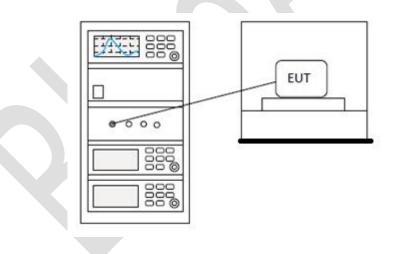
6.8 Hopping Channel Number

Test Standard	47 CFR Part 15, Subpart C 15.247	
Test Method	ANSI C63.10 (2013) Section 7.8.3	
Test Mode (Pre-Scan)	ТХ	
Test Mode (Final Test)	ТХ	

6.8.1 Limit

Frequency range(MHz)	Number of hopping channels (minimum)
002.028	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

6.8.2 Test setup



6.8.3 Test data

Pass: Please refer to appendix A for details

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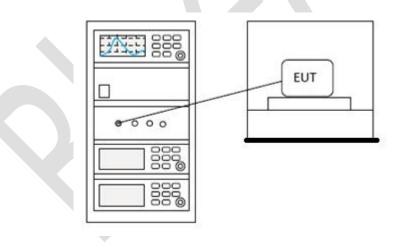
6.9 Dwell Time

Test Standard	47 CFR Part 15, Subpart C 15.247	
Test Method	ANSI C63.10 (2013) Section 7.8.4	
Test Mode (Pre-Scan)	ТХ	
Test Mode (Final Test)	ТХ	

6.9.1 Limit

Frequency(MHz)	Limit
000.000	0.4s within a 20s period(20dB bandwidth<250kHz)
902-928	0.4s within a 10s period(20dB bandwidth≥250kHz)
2400-2483.5	0.4s within a period of 0.4s multiplied by the number of hopping channels
5725-5850	0.4s within a 30s period

6.9.2 Test setup



6.9.3 Test data

Pass: Please refer to appendix A for details

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6.10 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ

6.10.1 Limit

Field strength(microvolts/meter)	Measurement distance(meters)					
2400/F(kHz)	300					
24000/F(kHz)	30					
30	30					
100	3					
150	3					
200	3					
500	3					
	strength(microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100 150 200					

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

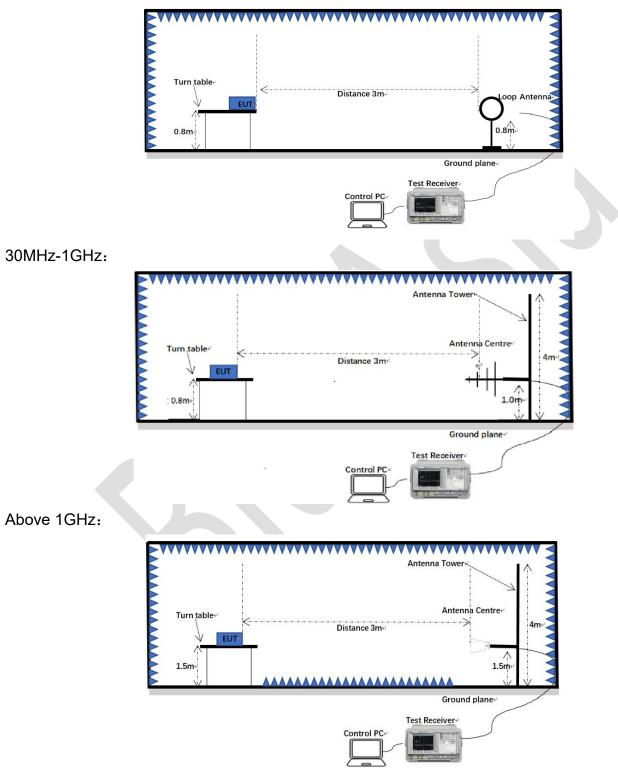
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6.10.2 Test setup

Below 1GHz:



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6.10.3 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 chamber. 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 fully-anechoic chamber. 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 the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown. Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Level (dBuV) = Reading (dBuV) + Factor (dB/m)

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6.10.4 Test data

Below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel for DH5 was recorded in the report.

80.0 dBuV/m 70 60 FCC Part15 Class B 50 40 § 30 - he 5 will 1 X 20 2 10 0 -10 -20 30.000 (MHz) 1000.000 60.00 300.00

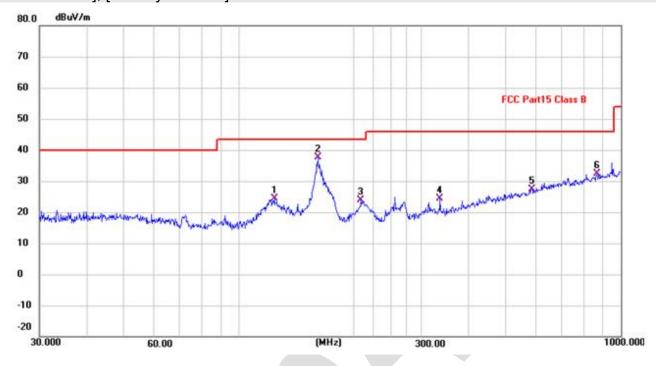
[Test mode: TX]; [Polarity: Horizontal]

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	45.8553	0.60	19.62	20.22	40.00	-19.78	QP
2	63.7588	-0.09	17.99	17.90	40.00	-22.10	QP
3 *	160.3456	12.66	20.41	33.07	43.50	-10.43	QP
4	213.0151	8.54	16.03	24.57	43.50	-18.93	QP
5	404.6665	-0.07	23.09	23.02	46.00	-22.98	QP
6	622.8900	1.32	27.52	28.84	46.00	-17.16	QP

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[Test mode: TX]; [Polarity: Vertical]

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	123.6984	5.49	18.88	24.37	43.50	-19.13	QP
2 *	160.9089	17.09	20.42	37.51	43.50	-5.99	QP
3	208.5801	7.82	16.08	23.90	43.50	-19.60	QP
4	336.0351	2.95	21.50	24.45	46.00	-21.55	QP
5	584.7894	0.82	26.49	27.31	46.00	-18.69	QP
6	866.0879	1.95	30.43	32.38	46.00	-13.62	QP

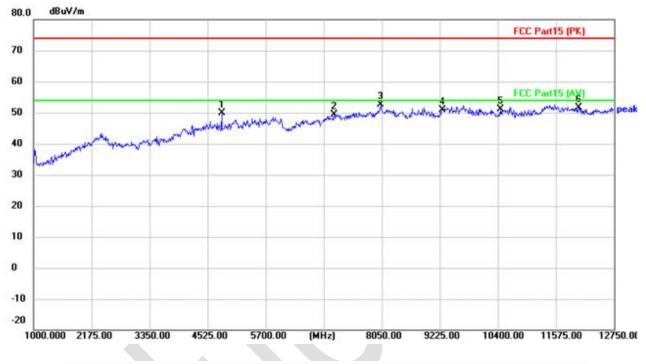
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Above 1GHz:

Remark: During the test, the Radiates Emission from above 1GHz was performed in all modes, only the worst case for DH5 was recorded in the report.



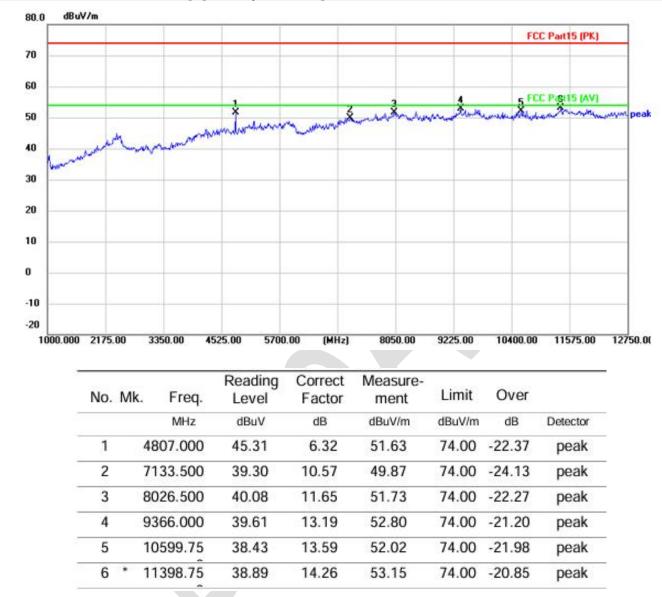


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
1		4807.000	43.64	6.32	49.96	74.00	-24.04	peak
2		7086.500	39.14	10.33	49.47	74.00	-24.53	peak
3	•	8026.500	40.89	11.65	52.54	74.00	-21.46	peak
4	9	9283.750	37.85	13.07	50.92	74.00	-23.08	peak
5		10447.00	37.57	13.62	51.19	74.00	-22.81	peak
6		12033.25	37.58	14.11	51.69	74.00	-22.31	peak

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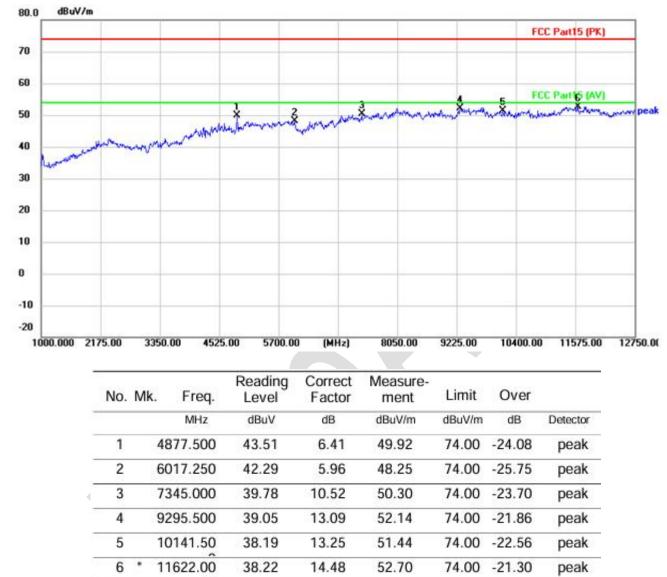


[Test mode: TX low channel]; [Polarity: Vertical]

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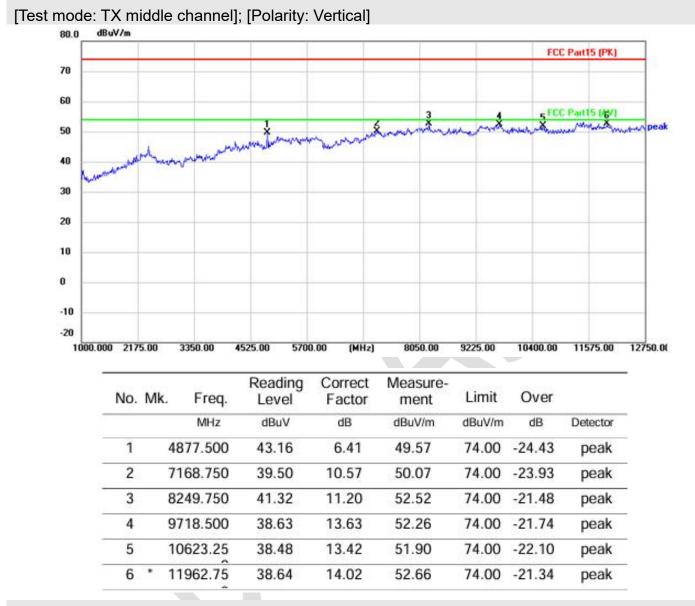
[Test mode: TX middle channel]; [Polarity: Horizontal]

Test Result: Pass

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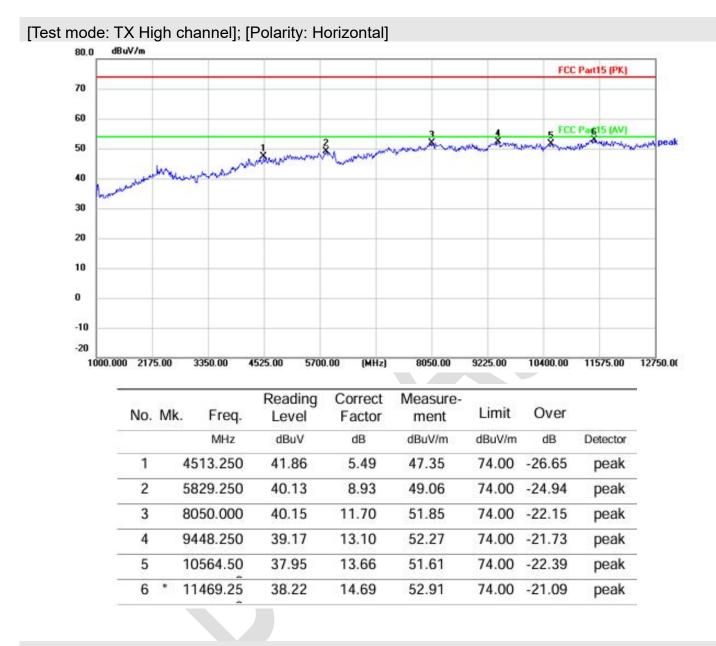


Test Result: Pass

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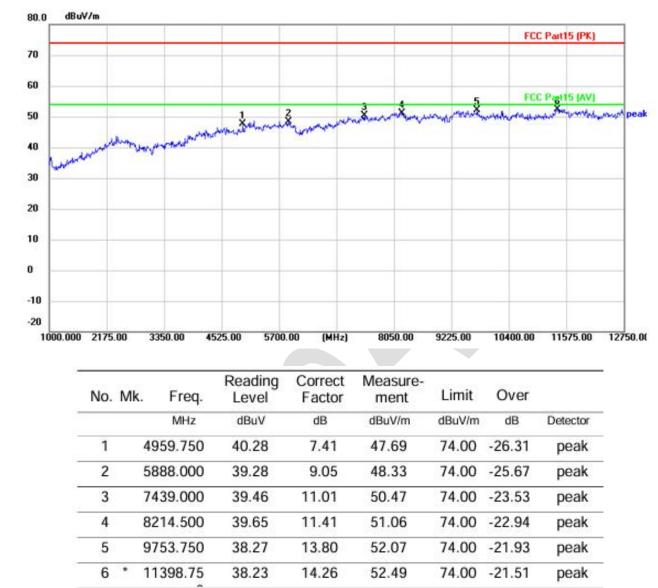
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[Test mode: TX High channel]; [Polarity: Vertical]

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6.11 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method ANSI C63.10 (2013) Section 6.10.5			
Test Mode (Pre-Scan)	ТХ		
Test Mode (Final Test)	ТХ		

6.11.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	
30-88	100	3	
88-216	150	3	
216-960	200	3	
Above 960	500	3	

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

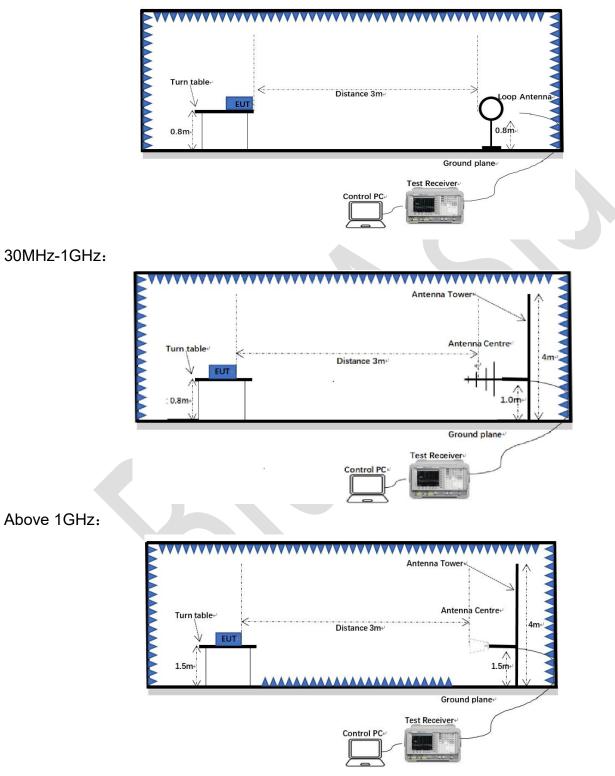
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6.11.2 Test setup

Below 1GHz:



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6.11.3 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 chamber. 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 fully-anechoic chamber. 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 the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

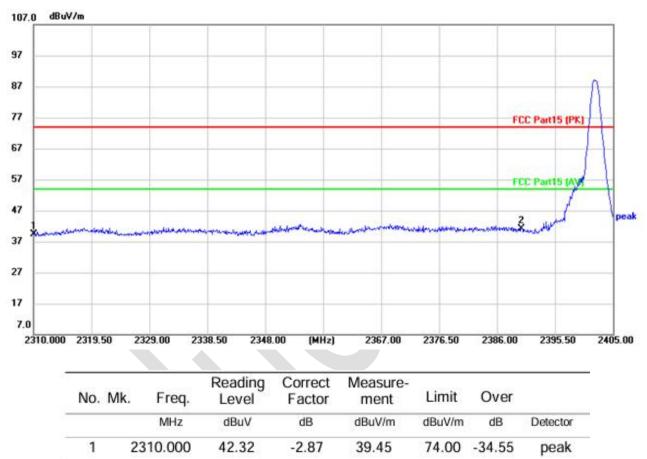
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6.11.4 Test data

Remark: During the test, the Radiates Emission restricted bands from above 1GHz was performed in all modes, only the worst case for DH5 was recorded in the report.

[Test mode: TX low channel]; [Polarity: Horizontal]



-2.44

41.21

74.00

-32.79

peak

Test Result: Pass

2 *

2390.000

43.65

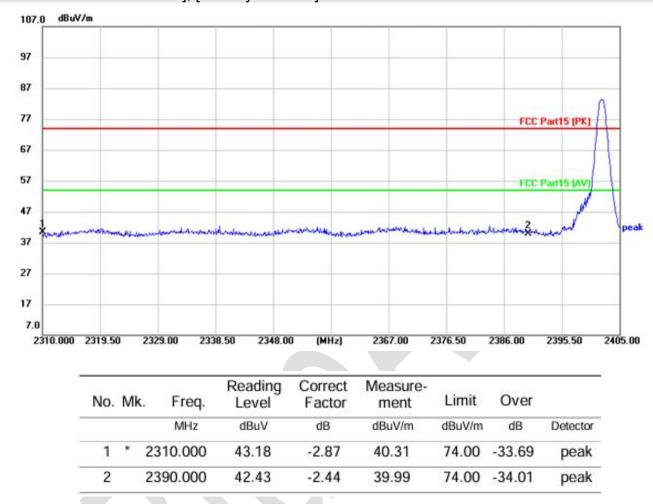
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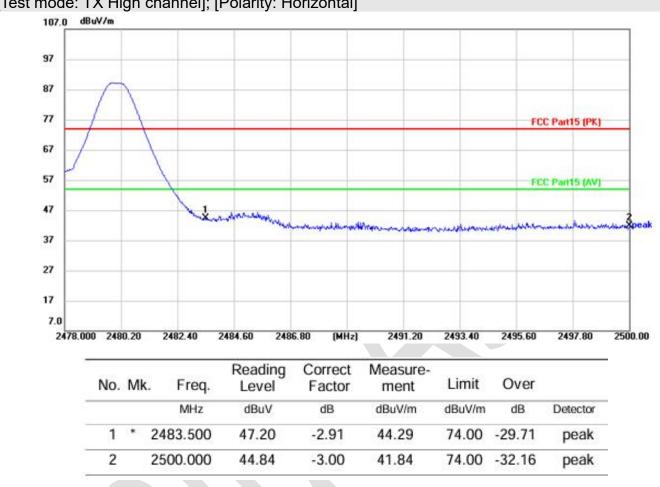
[Test mode:TX low channel]; [Polarity: Vertical]

Test Result: Pass

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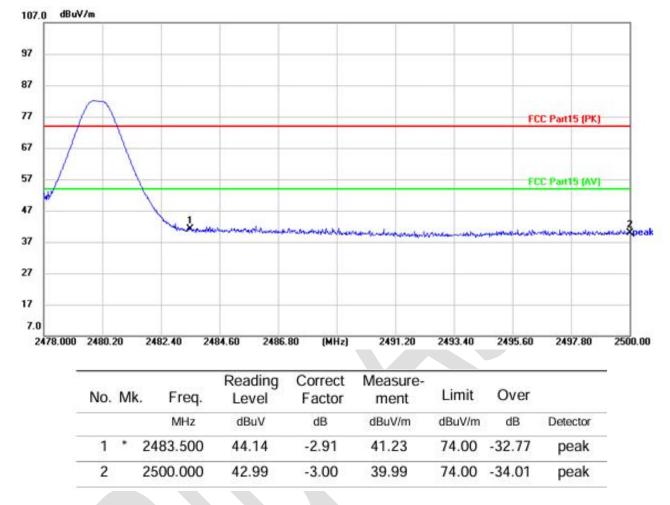
[Test mode: TX High channel]; [Polarity: Horizontal]

Test Result: Pass

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[Test mode:TX High channel]; [Polarity: Vertical]

Test Result: Pass

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7 Appendix A

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	2.377	21	Pass
NVNT	1-DH1	2441	Ant1	2.974	21	Pass
NVNT	1-DH1	2480	Ant1	2.353	21	Pass
NVNT	2-DH1	2402	Ant1	3.263	21	Pass
NVNT	2-DH1	2441	Ant1	3.871	21	Pass
NVNT	2-DH1	2480	Ant1	3.297	21	Pass
NVNT	3-DH1	2402	Ant1	4.008	21	Pass
NVNT	3-DH1	2441	Ant1	4.596	21	Pass
NVNT	3-DH1	2480	Ant1	3.72	21	Pass

7.1 Maximum Conducted Output Power

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Swept S/ n Analyzer 09:53:07 AM Jan 20, 2025 W R T RF 50 Ω AC Center Freq 2.402000000 GHz SENSE:INT Avg Type: Log-Pwr Avg|Hold: 200/200 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N Trig: Free Run #Atten: 30 dB PNO: Fast +++ IFGain:Low Mkr1 2.401 827 GHz 2.377 dBm Ref Offset 2.28 dB Ref 20.00 dBm 10 dB/div Log 0 10.0 20.0 30.0 40.0 50.0 Center 2.402000 GHz #Res BW 3.0 MHz Span 10.00 MHz Sweep 1.333 ms (10001 pts) #VBW 8.0 MHz STATUS

Power NVNT 1-DH1 2441MHz Ant1



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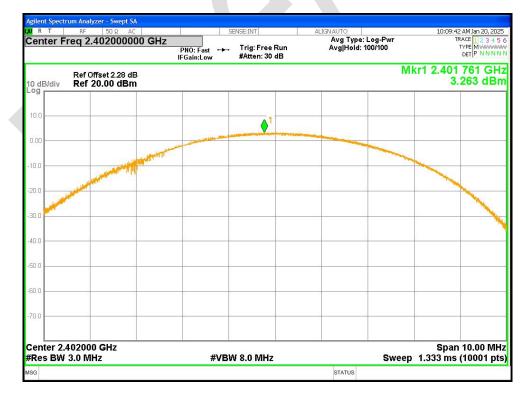


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Analyzer Swept S/ 09:58:18 AM Jan 20, 2025 W R T RF 50 Ω AC Center Freq 2.480000000 GHz SENSE:INT Avg Type: Log-Pwr Avg|Hold: 100/100 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N Trig: Free Run #Atten: 30 dB PNO: Fast +++ IFGain:Low Mkr1 2.479 740 GHz 2.353 dBm Ref Offset 2.49 dB Ref 20.00 dBm 10 dB/div Log 0 10.0 20.0 30.0 40.0 50.0 Center 2.480000 GHz #Res BW 3.0 MHz Span 10.00 MHz Sweep 1.333 ms (10001 pts) #VBW 8.0 MHz STATUS

Power NVNT 2-DH1 2402MHz Ant1



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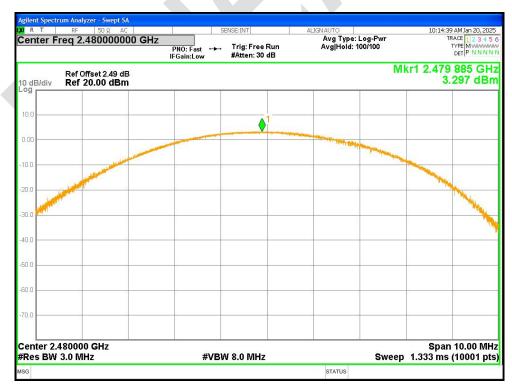


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Power NVNT 2-DH1 2441MHz Ant1

Power NVNT 2-DH1 2480MHz Ant1



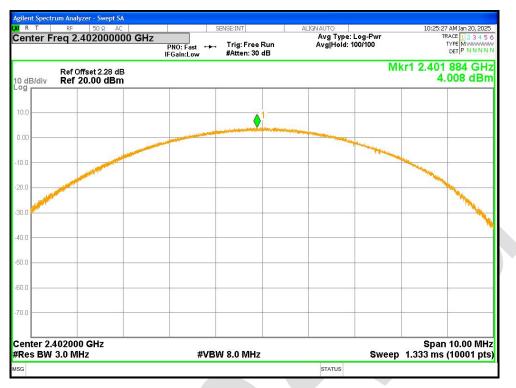
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Power NVNT 3-DH1 2441MHz Ant1

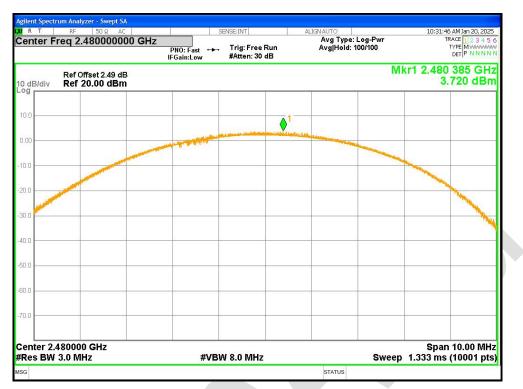


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7.2-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.876	N/A	Pass
NVNT	1-DH1	2441	Ant1	0.875	N/A	Pass
NVNT	1-DH1	2480	Ant1	0.877	N/A	Pass
NVNT	2-DH1	2402	Ant1	1.234	N/A	Pass
NVNT	2-DH1	2441	Ant1	1.245	N/A	Pass
NVNT	2-DH1	2480	Ant1	1.246	N/A	Pass
NVNT	3-DH1	2402	Ant1	1.235	N/A	Pass
NVNT	3-DH1	2441	Ant1	1.241	N/A	Pass
NVNT	3-DH1	2480	Ant1	1.237	N/A	Pass

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R T RF 50 Ω AC		SENSE:INT	ALIGN AUTO	09:53:24 AM Jan 20, 2025	
enter Freq 2.4020000	0 GHz #IEGain:Low	Center Freq: 2.402000 Trig: Free Run #Atten: 30 dB	000 GHz Avg Hold: 300/300	Radio Std: None Radio Device: BTS	
Ref Offset 2.28		WALLEH, SO UL		Mkr3 2.402454 GHz	
dB/div Ref 22.28 dB				-19.814 dBm	
og 2.3		10			
.28					
.72	02 0		man 2		
7.7	- Arr				
7.7		e		m	
7.7				m	
7.7				man	
7.7					
7.7					
enter 2.402 GHz				Span 2 MHz	
Res BW 30 kHz		#VBW 100 kHz		Sweep 2.667 ms	
Occupied Bandwid	lth	Total Power	9.00 dBm		
5	818.76 kHz				
Transmit Freq Error	15.983 kHz	OBW Power	99.00 %		
x dB Bandwidth	876.2 kHz	x dB	-20.00 dB		

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



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-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1

-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



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-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1

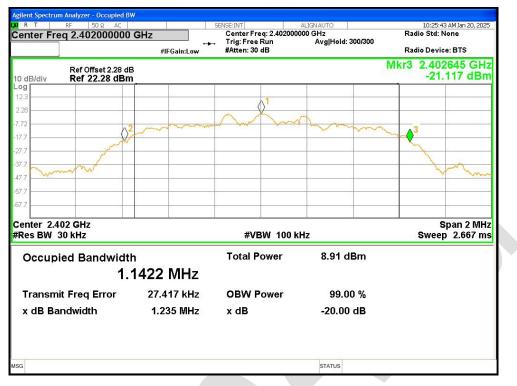
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



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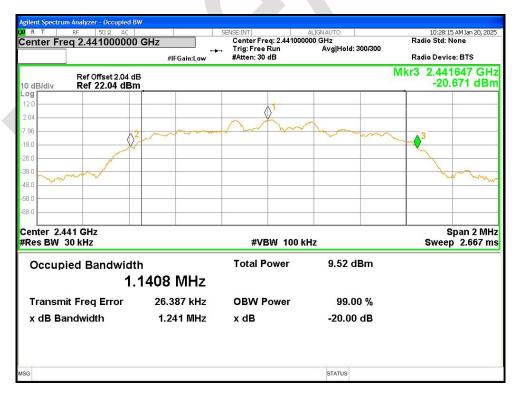


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-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1

-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



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-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

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