



FCC AND ISED CERTIFICATION TEST REPORT

Applicant	:	Edifier International Limited
Address of Applicant	:	P.O. Box 6264 General Post Office, Hong Kong
Manufacturer	:	Beijing Edifier Technology Co., Ltd.
Address of Manufacturer	:	815, Floor 8, Shuangqiao Building, No.68, North Fourth Ring West Road, Haidian District, 100080 Beijing, P.R. China
Equipment under Test	:	Tabletop Wireless Speaker
Model No.	:	EDF286006
FCC ID	:	Z9G-EDF253
IC	:	10004A-EDF253
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart E, RSS-247 Issue 3 August 2023, ANSI C63.10:2020, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01, RSS-Gen Issue 5 April 2018
Report No.	:	DDT-RE24062510-1E04
Issue Date	:	2024/08/21
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Test Standard Used:

FCC Rules and Regulations Part 15 Subpart E,
RSS-247 Issue 3 August 2023,
ANSI C63.10:2020,
789033 D02 General U-NII Test Procedures New Rules v02r01,
662911 D01 Multiple Transmitter Output v02r01,
RSS-Gen Issue 5 April 2018

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24062510-1E04		
Date of Receipt:	2024/06/28	Date of Test:	2024/07/09 - 2024/08/21

Prepared By:**Jacky Huang/Engineer****Approved By:****Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/08/21	

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	FCC 15.407 (e), RSS-247 Clause 6.2	/	Pass
2	Output Power	FCC 15.407 (a) ; RSS-247 Clause 6.2	/	Pass
3	Power Spectral Density	FCC 15.407 (a) ; RSS-247 Clause 6.2	/	Pass
4	Frequency Stability Measurement	FCC 15.407 (g); RSS-247 Clause 6.2; RSS-GEN Clause 8.9	/	Pass
5	Radiated Emission	FCC 15.407 (b); FCC 15.209; FCC 15.205; RSS-247 Clause 6.2; RSS-GEN Clause 8.9	/	Pass
6	Band Edge Compliance	FCC 15.407 (b); FCC 15.209; FCC 15.205; RSS-247 Clause 6.2; RSS-GEN Clause 8.9	/	Pass
7	Dynamic Frequency Selection	FCC 15.407 (h); RSS-247 Clause 6.8	/	Pass
8	Power Line Conducted Emissions	FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 8.8	/	Pass
9	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	:	Tabletop Wireless Speaker
Model Number	:	EDF286006
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	100-240V~ 50/60Hz 600mA, DC 7.4V is powered by a built-in lithium battery.
Radio Technology	:	IEEE 802.11n
Operation frequency	:	IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5720MHz, 5745MHz-5825MHz
Modulation	:	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna information		
Antenna Type	:	FPC Antenna
Max Antenna Gain (dBi)	:	2.0

Note: This EUT support Bluetooth BR/EDR/LE, 2.4 GHz WLAN, 5 GHz WLAN, this report only for 5 GHz WLAN.

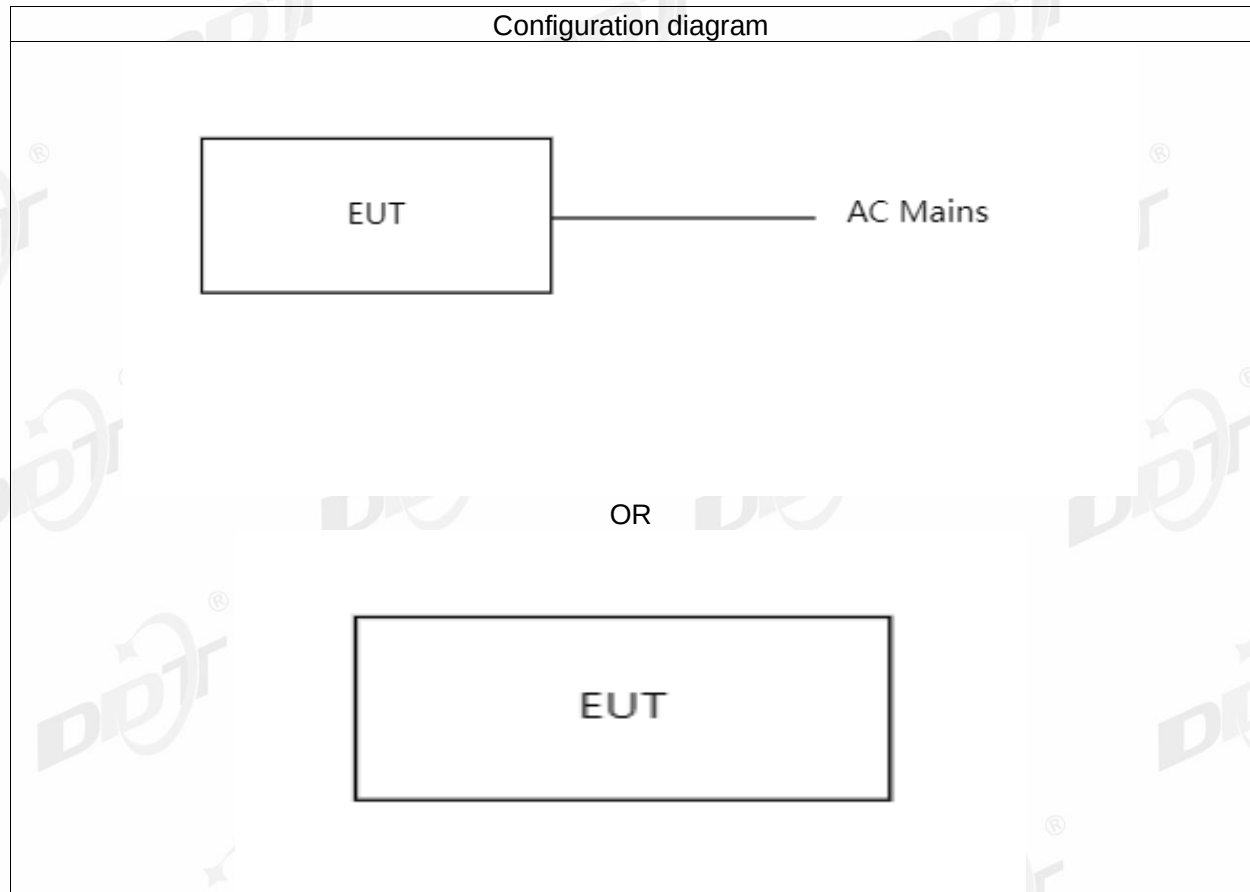
Channel information					
IEEE 802.11n (HT20)					
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	40	5200	44	5220
48	5240	/	/	/	/
UNII-2A					
52	5260	56	5280	60	5300
64	5320	/	/	/	/
UNII-2C					
100	5500	104	5520	108	5540
112	5560	116	5580	120	5600
124	5620	128	5640	132	5660
136	5680	140	5700	144	5720
UNII-3					
149	5745	153	5765	157	5785
161	5805	165	5825	/	/
Note: Band 5600-5650MHz will be disabled when shipped to Canada					

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: sscom.exe, Version 5.13.1

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 2 dB (According to the manufacturer's claims)

Tested mode, channel, and data rate information				
Mode	Setting Tx Power	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
	ANT1			
IEEE 802.11n HT20	Default	MCS 0	Low: CH36	5180
	Default	MCS 0	Middle: CH40	5200
	Default	MCS 0	High: CH48	5240
	Default	MCS 0	Low: CH52	5260
	Default	MCS 0	Middle: CH56	5280
	Default	MCS 0	High: CH64	5320
	Default	MCS 0	Low: CH100	5500
	Default	MCS 0	Middle: CH116	5580
	Default	MCS 0	High: CH140	5700
	Default	MCS 0	Straddle:CH144	5720
	Default	MCS 0	Low: CH149	5745
	Default	MCS 0	Middle: CH157	5785
	Default	MCS 0	High: CH165	5825
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to 106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)

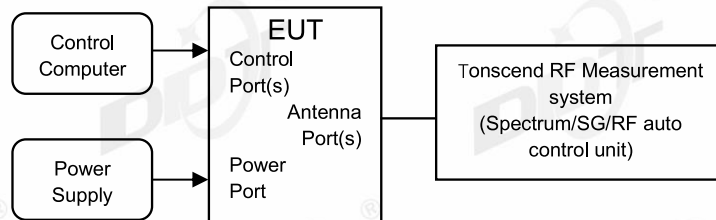
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☑RF Connected Test (RF Measurement System 4#)					
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2025/03/31	1 Year
Wideband Radio Communication Tester	R&S	CMW500	168801	2025/03/31	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2025/03/31	1 Year
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2024/09/05	1 Year
RF Control Unit	Tonsend	JS0806-2	2118060485	2025/03/31	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2025/04/22	1 Year
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1% of the emission bandwidth.
VBW	> RBW
Trace	Max hold
Sweep	Auto couple

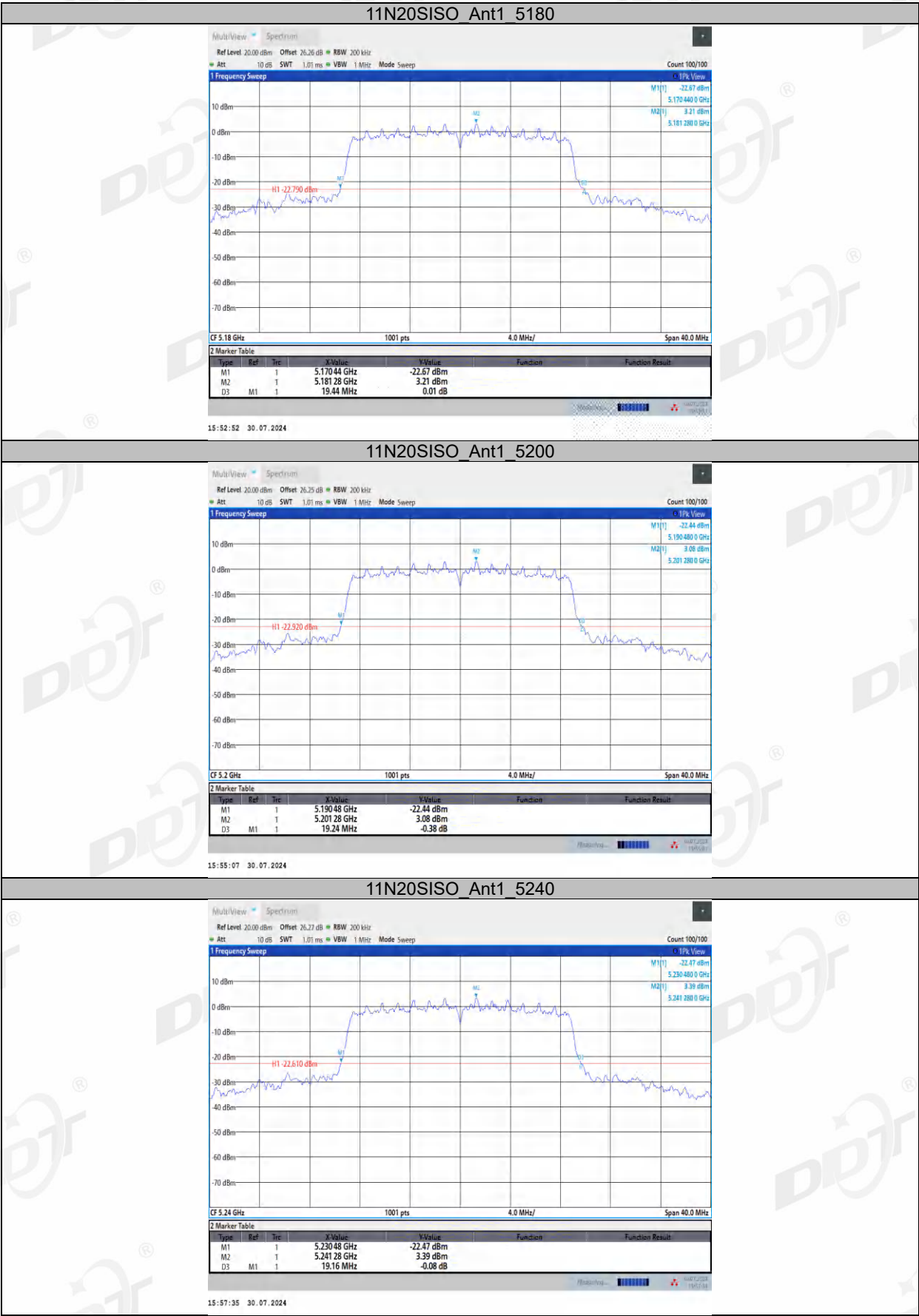
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

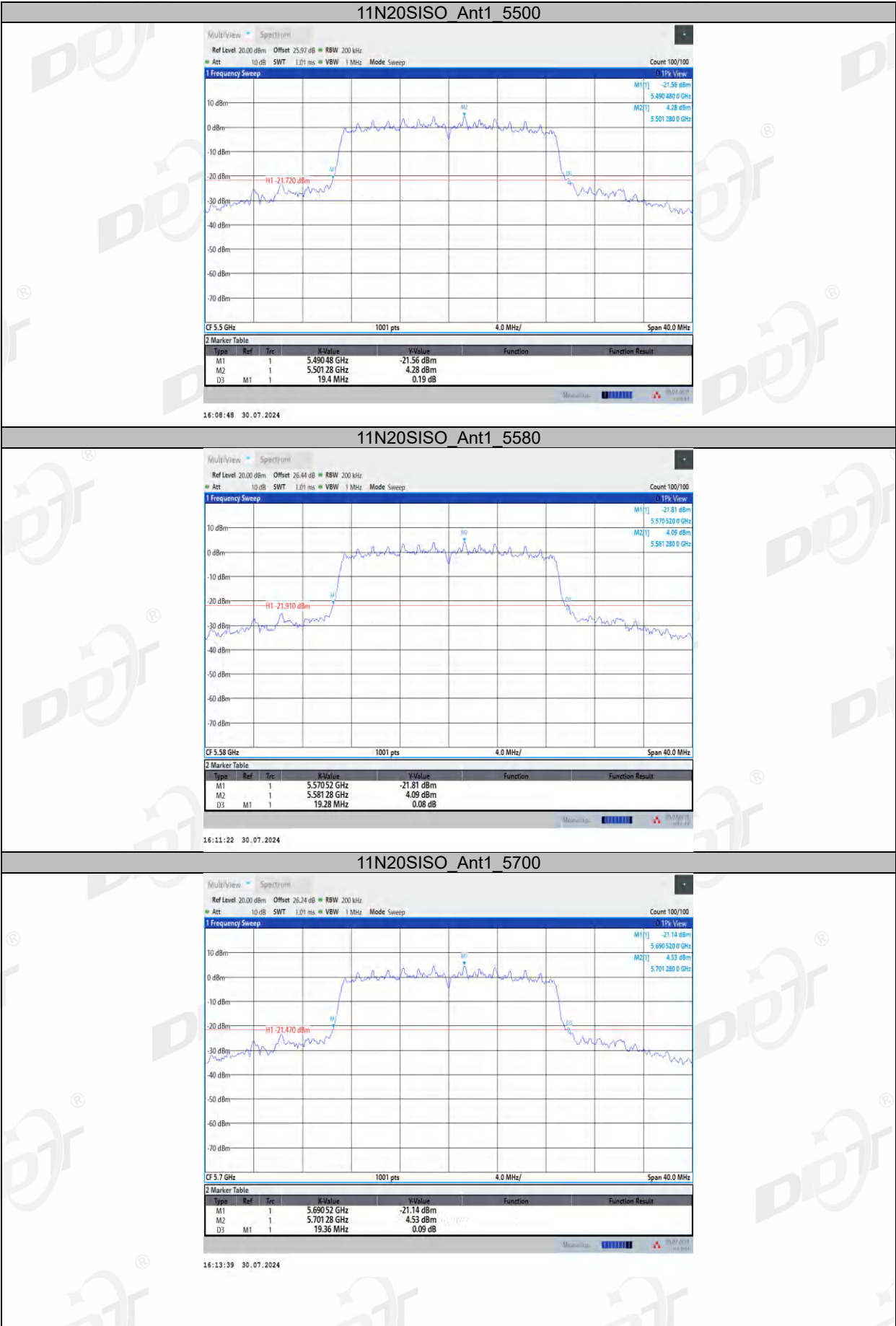
Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11N20SISO	Ant1	5180	19.44	5170.44	5189.88	---	---
		5200	19.24	5190.48	5209.72	---	---
		5240	19.16	5230.48	5249.64	---	---
		5260	19.08	5250.52	5269.60	---	---
		5280	19.04	5270.52	5289.56	---	---
		5320	19.28	5310.48	5329.76	---	---
		5500	19.40	5490.48	5509.88	---	---
		5580	19.28	5570.52	5589.80	---	---
		5700	19.36	5690.52	5709.88	---	---
		5720	19.36	5710.52	5729.88	---	---
		5720_UNII-2C	14.48	5710.52	5725.00	---	---
		5720_UNII-3	4.88	5725.00	5729.88	---	---
		5745	19.36	5735.48	5754.84	---	---
		5785	19.00	5775.52	5794.52	---	---
		5825	19.04	5815.48	5834.52	---	---

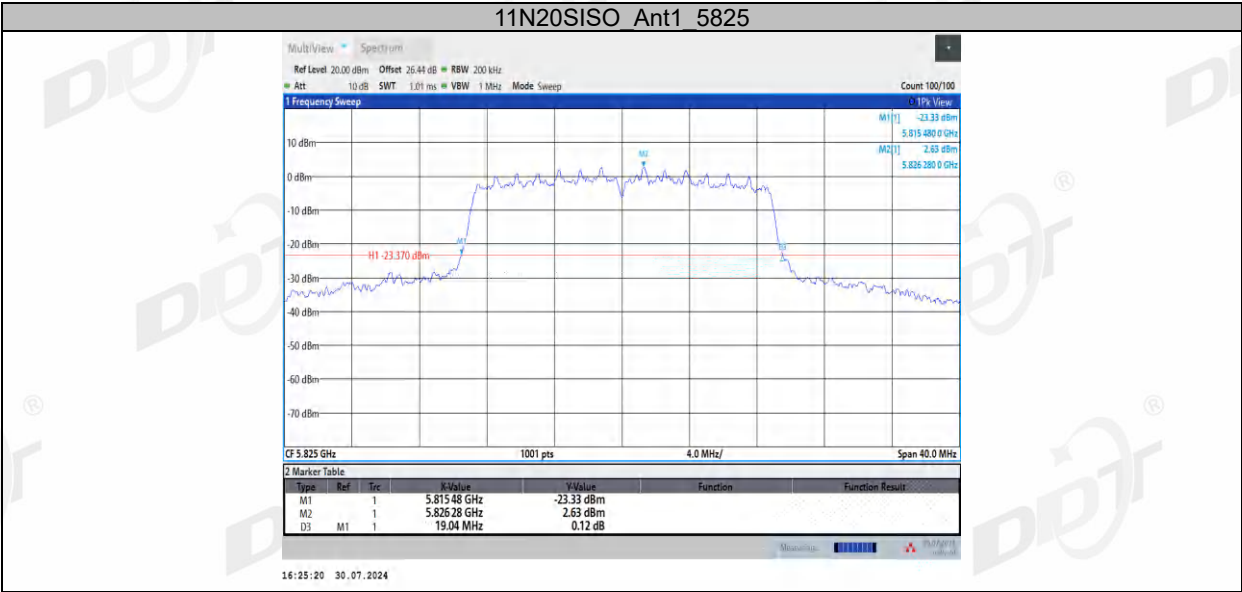
4.5. Test graphs





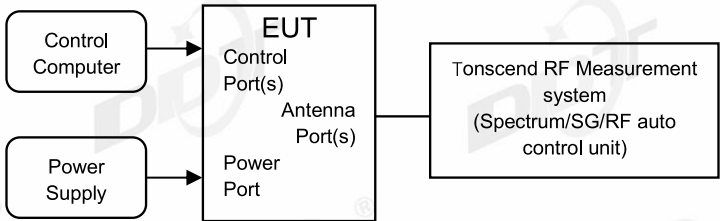






5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT’s antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

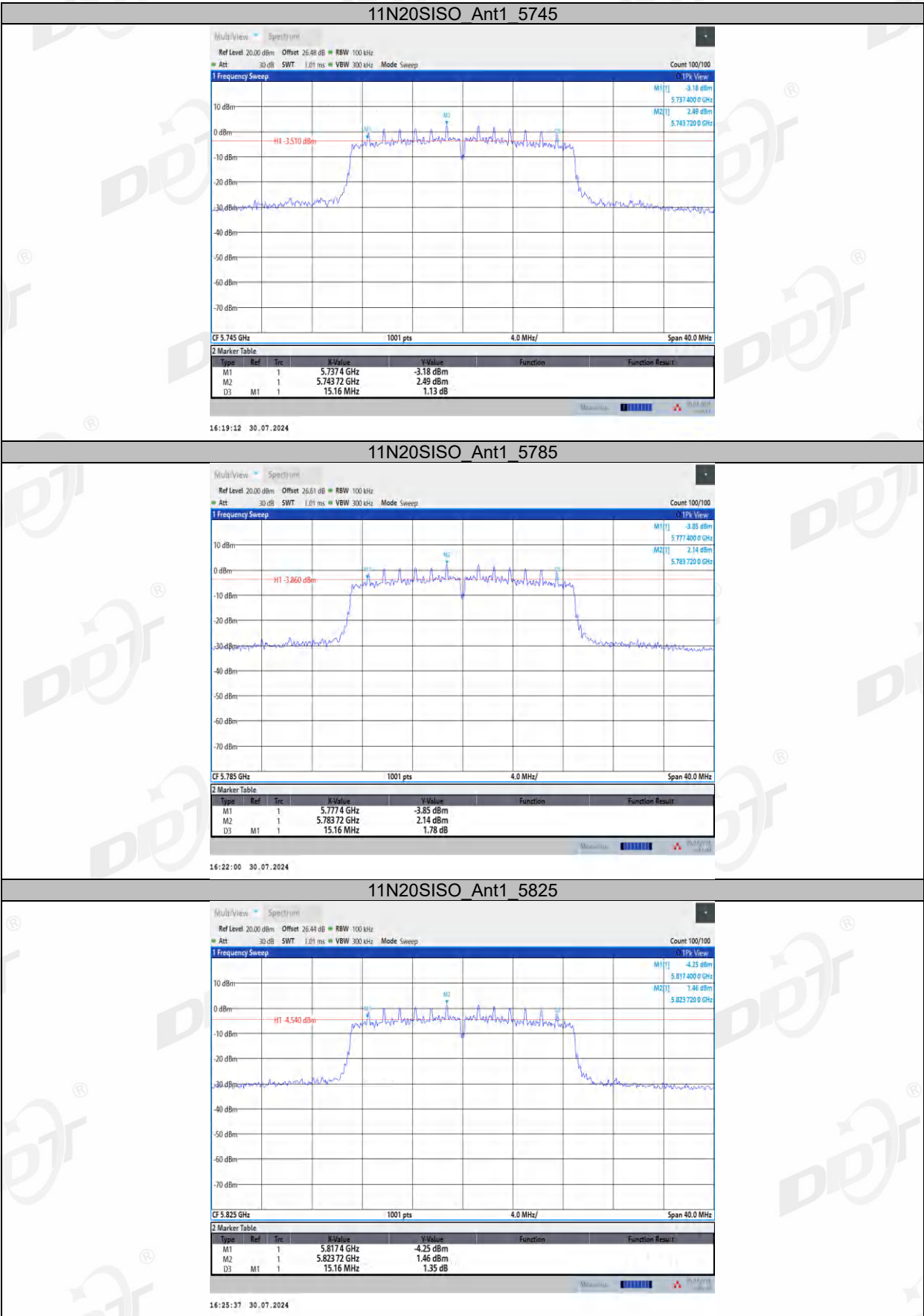
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4. Test result B4

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

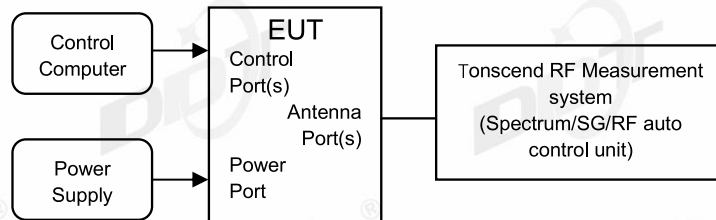
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11N20SISO	Ant1	5745	15.16	5737.40	5752.56	0.5	PASS
		5785	15.16	5777.40	5792.56	0.5	PASS
		5825	15.16	5817.40	5832.56	0.5	PASS

5.5. Test graphs B4



6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

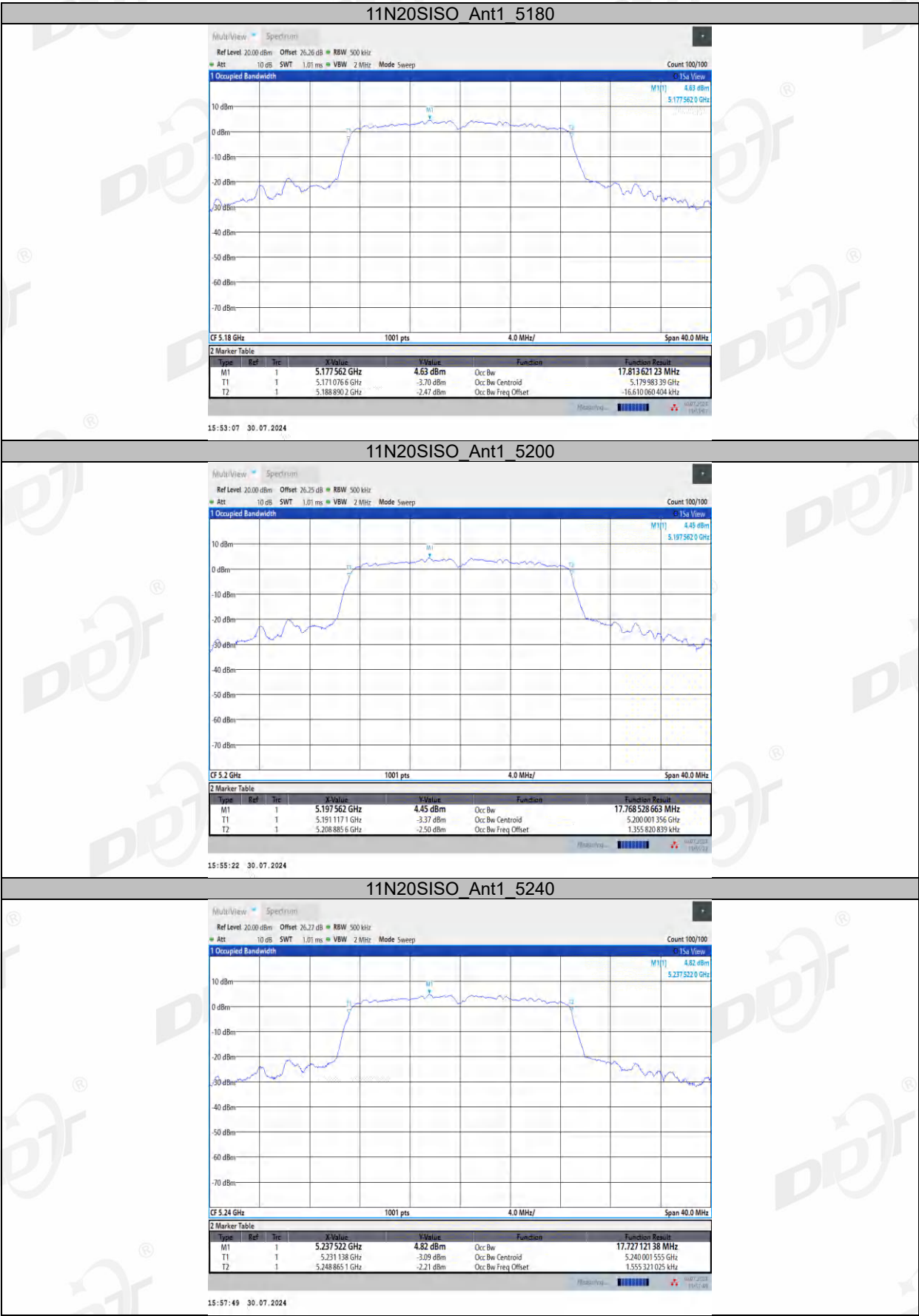
- (2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

6.4. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11N20SISO	Ant1	5180	17.814	5171.0766	5188.8902	---	---
		5200	17.769	5191.1171	5208.8856	---	---
		5240	17.727	5231.1380	5248.8651	---	---
		5260	17.706	5251.1604	5268.8665	---	---
		5280	17.706	5271.1571	5288.8628	---	---
		5320	17.749	5311.1264	5328.8752	---	---
		5500	17.755	5491.1169	5508.8721	---	---
		5580	17.709	5571.1600	5588.8692	---	---
		5700	17.737	5691.1373	5708.8741	---	---
		5720	17.738	5711.1241	5728.8623	---	---
		5720_UNII-2C	13.876	5711.1241	5725.0000	---	---
		5720_UNII-3	3.862	5725.0000	5728.8623	---	---
		5745	17.730	5736.1213	5753.8518	---	---
		5785	17.690	5776.1679	5793.8580	---	---
		5825	17.686	5816.1565	5833.8420	---	---

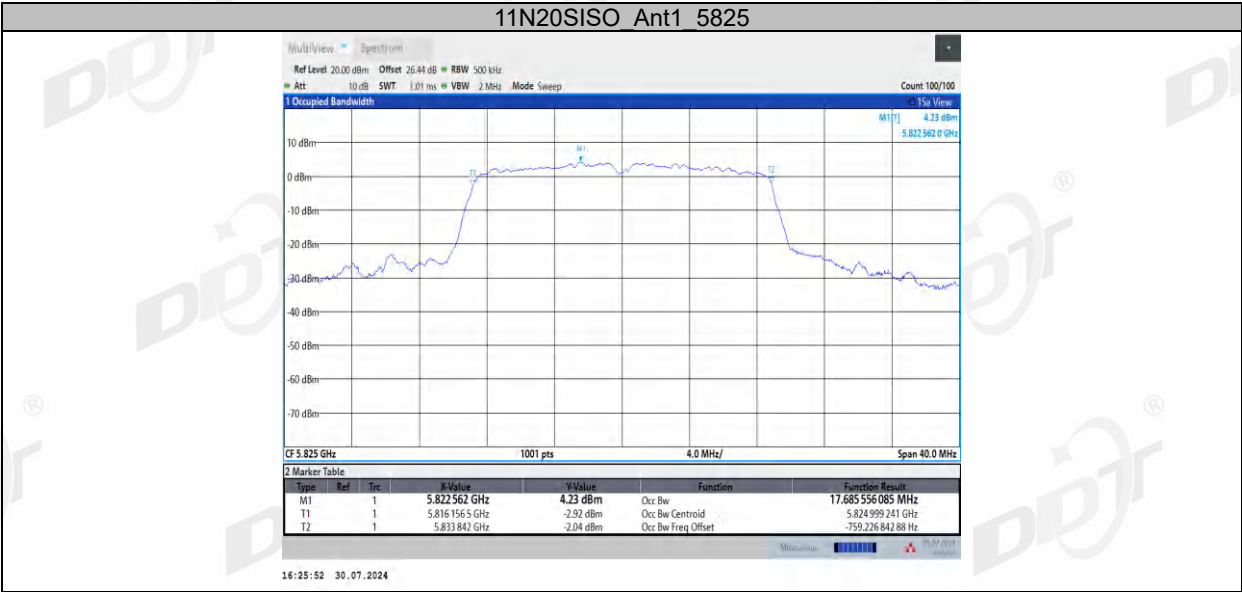
6.5. Test graphs





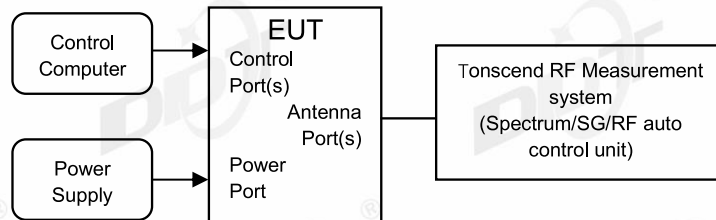






7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset. set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

7.4. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11N20SISO	Ant1	5180	0.26	0.28	92.86
		5200	0.26	0.28	92.86
		5240	0.26	0.28	92.86
		5260	0.27	0.29	93.10
		5280	0.26	0.28	92.86
		5320	0.27	0.29	93.10
		5500	0.27	0.29	93.10
		5580	0.26	0.29	89.66
		5700	0.26	0.28	92.86
		5720	0.26	0.28	92.86
		5745	0.26	0.29	89.66
		5785	0.27	0.29	93.10
		5825	0.26	0.28	92.86

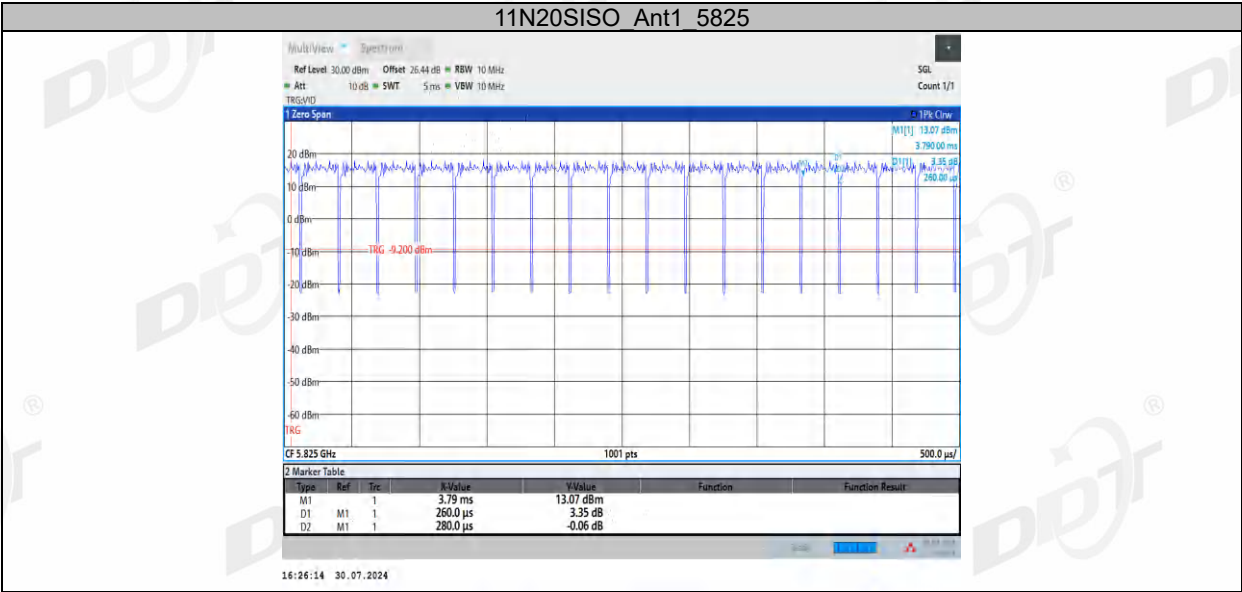
7.5. Test graphs





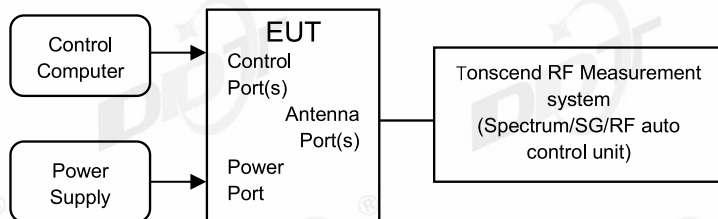






8. Maximum Output Power

8.1. Block diagram of test setup



8.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points1 W(30 dBm) client devices: 250 mW (24 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23 dBm) or $10 + 10 \log_{10} B$	
	For FCC: 250 mW (24 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (24 dBm) or $11 + 10 \log_{10} B$	5250-5350
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	For FCC: 250 mW (24 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (24 dBm) or $11 + 10 \log_{10} B$	For FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	1 Watt (30 dBm)	5725-5850
Note: For FCC: B=26 bandwidth; For ISED: B=99% bandwidth.		

8.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the output power of each antenna port by power sensor.

8.4. Test result channel power

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

Test Mode	Antenna	Frequency [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11N20SISO	Ant1	5180	92.86	0.32	12.90	≤23.98	---	14.90	≤22.51	PASS
		5200	92.86	0.32	12.91	≤23.98	---	14.91	≤22.51	PASS
		5240	92.86	0.32	13.44	≤23.98	---	15.44	≤22.51	PASS
		5260	93.10	0.31	13.47	≤23.85	≤23.49	15.47	≤29.49	PASS
		5280	92.86	0.32	13.65	≤23.85	≤23.49	15.65	≤29.49	PASS
		5320	93.10	0.31	14.07	≤23.85	≤23.49	16.07	≤29.49	PASS
		5500	93.10	0.31	13.68	≤23.87	≤23.49	15.68	≤29.49	PASS
		5580	89.66	0.47	13.87	≤23.87	≤23.49	15.87	≤29.49	PASS
		5700	92.86	0.32	14.04	≤23.87	≤23.49	16.04	≤29.49	PASS
		5720	92.86	0.32	13.63	≤23.87	≤23.49	15.63	≤29.49	PASS
		5745	89.66	0.47	13.10	≤30.00	≤30.00	15.10	---	PASS
		5785	93.10	0.31	12.65	≤30.00	≤30.00	14.65	---	PASS
		5825	92.86	0.32	12.32	≤30.00	≤30.00	14.32	---	PASS

9. Power Spectral Density

9.1. Block diagram of test setup

Same as 8.1

9.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISDE: 5470 - 5600 5650 - 5725
	30 dBm/500 kHz	5725-5850

9.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

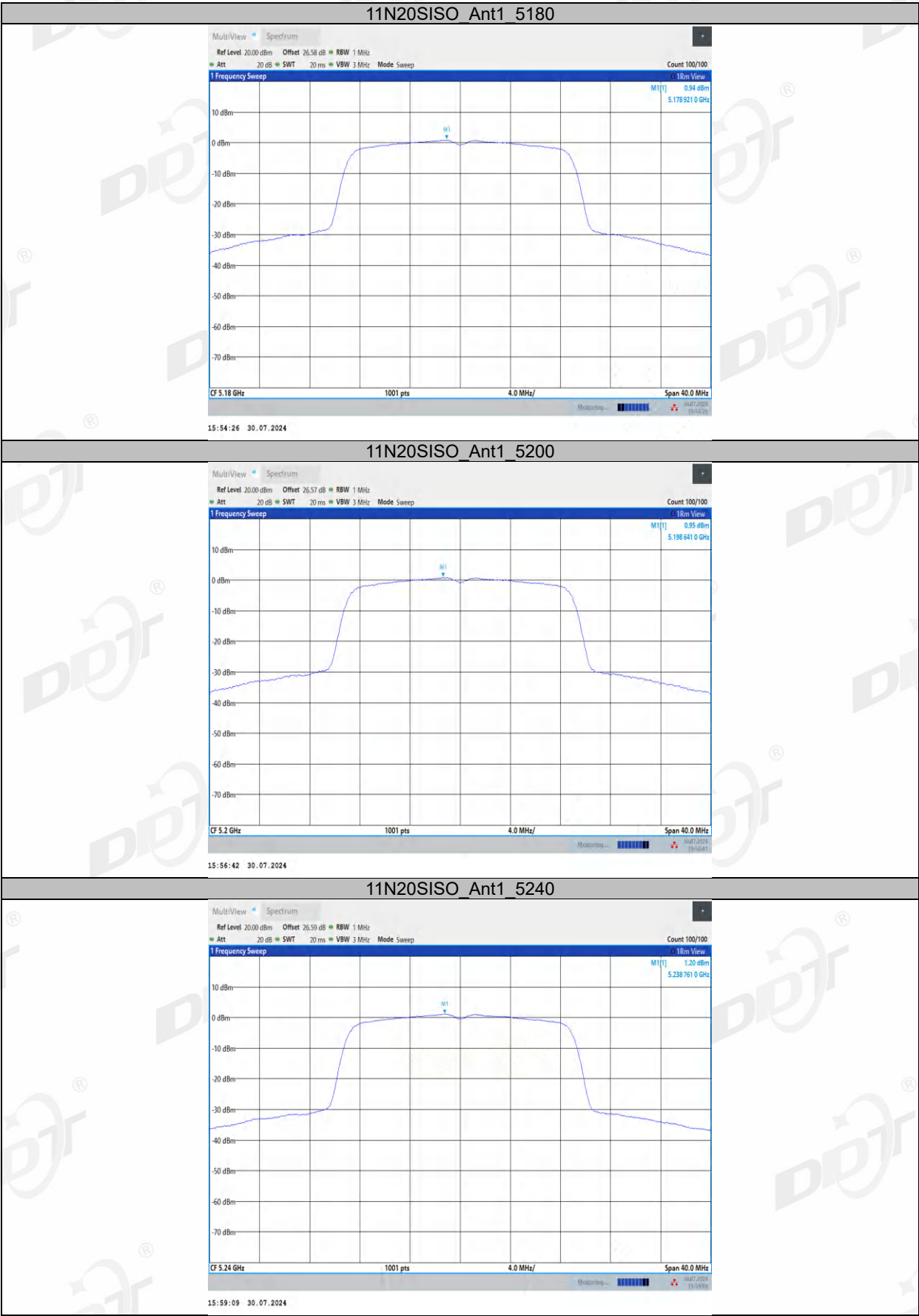
9.4. Test result

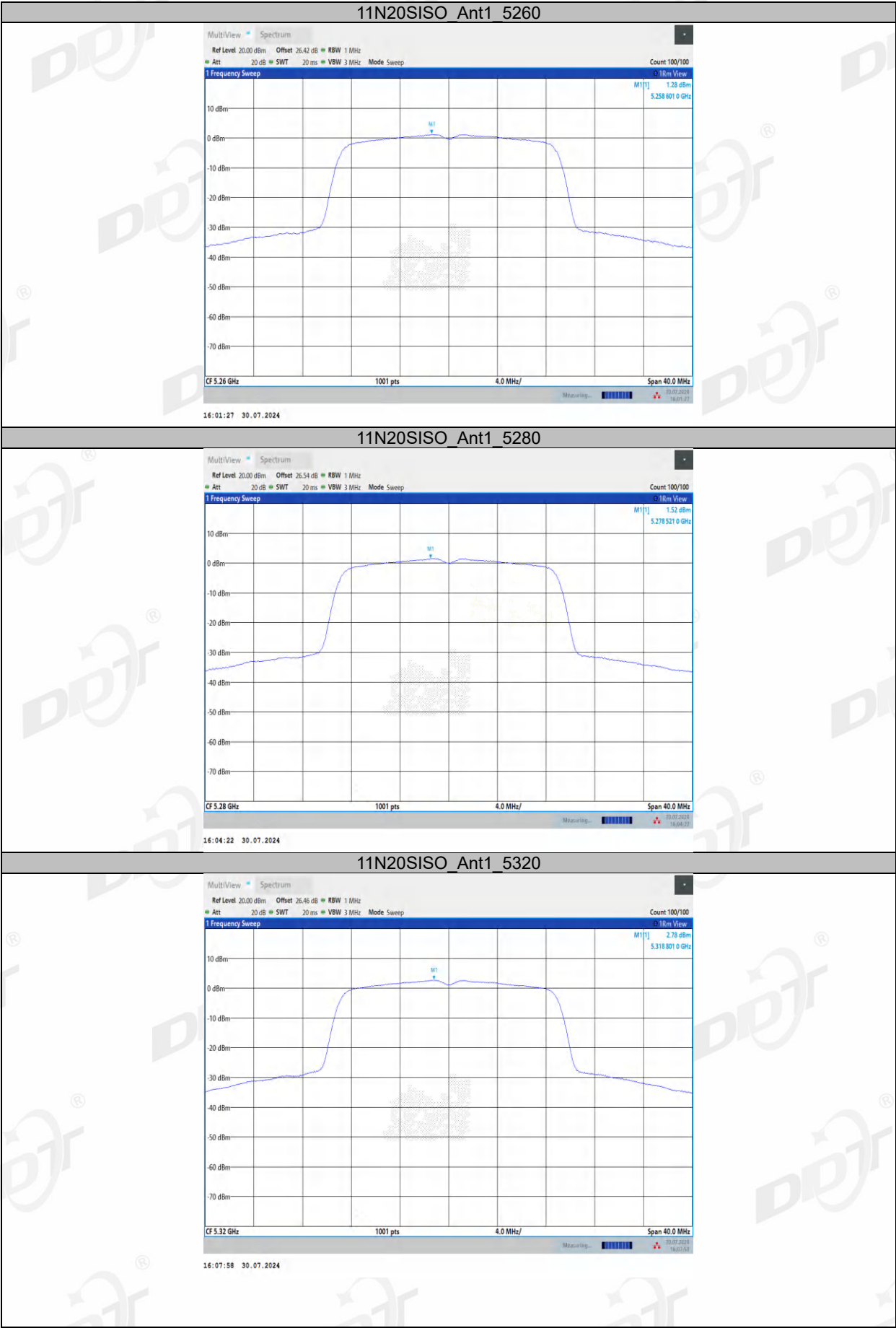
Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

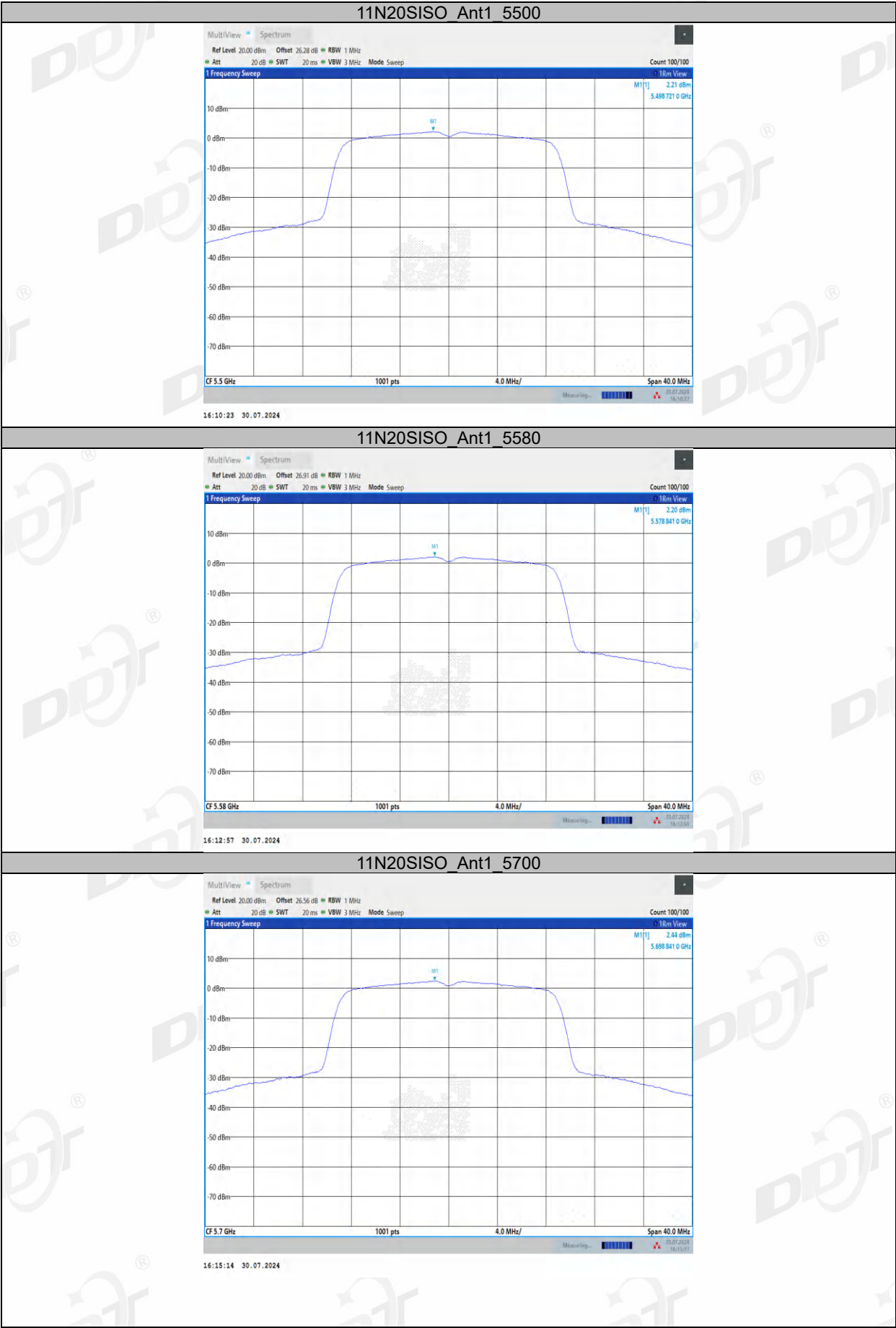
Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	EIRP Limit [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	0.94	≤11.00	≤10.00	PASS
		5200	0.95	≤11.00	≤10.00	PASS
		5240	1.20	≤11.00	≤10.00	PASS
		5260	1.28	≤11.00	-----	PASS
		5280	1.52	≤11.00	-----	PASS
		5320	2.78	≤11.00	-----	PASS
		5500	2.21	≤11.00	-----	PASS
		5580	2.20	≤11.00	-----	PASS
		5700	2.44	≤11.00	-----	PASS
		5720_UNII-2C	2.20	≤11.00	-----	PASS
		5720_UNII-3	-2.10	≤30.00	-----	PASS
		5745	-0.88	≤30.00	-----	PASS
		5785	-1.29	≤30.00	-----	PASS
		5825	-2.04	≤30.00	-----	PASS

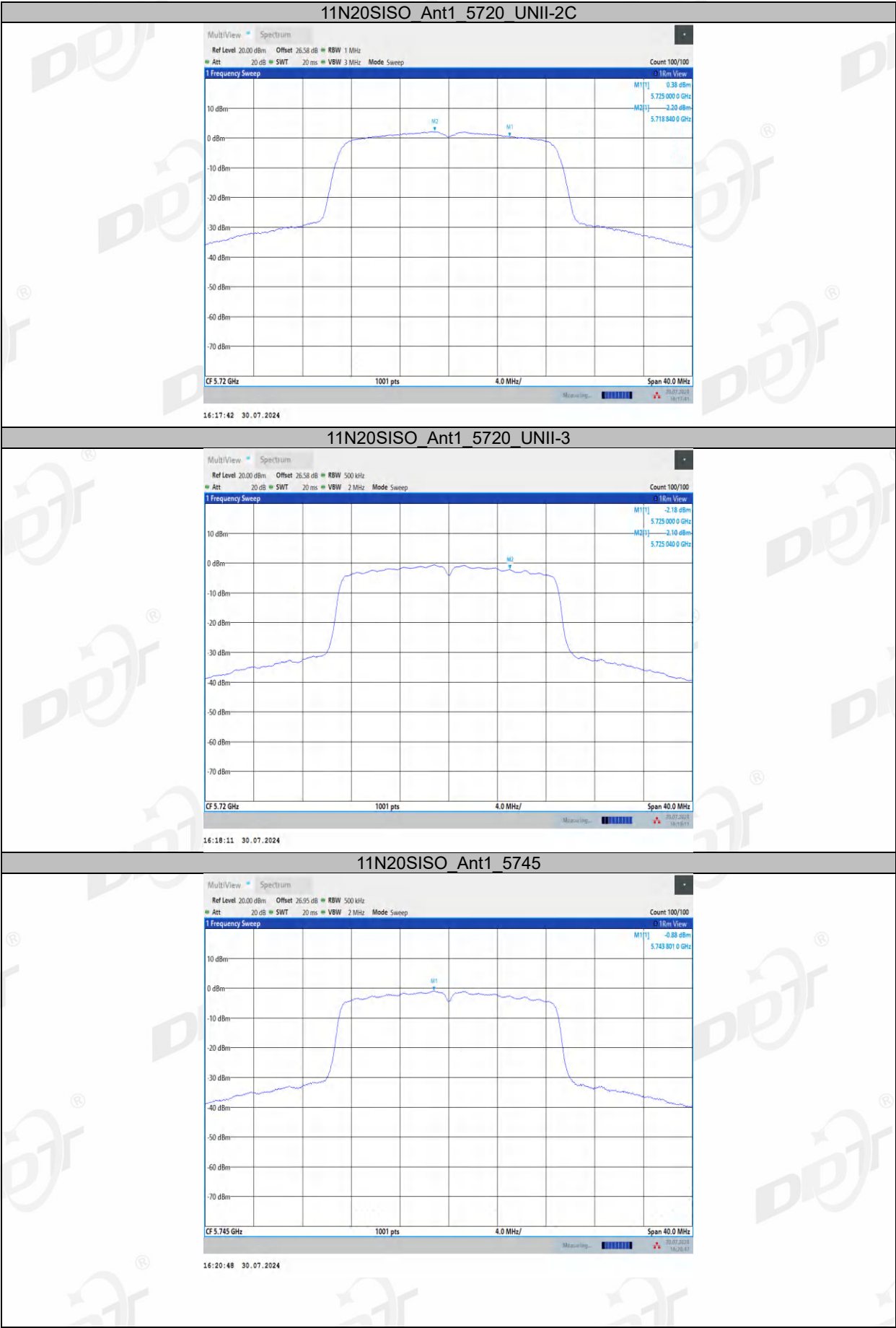
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor is compensated in the graph.

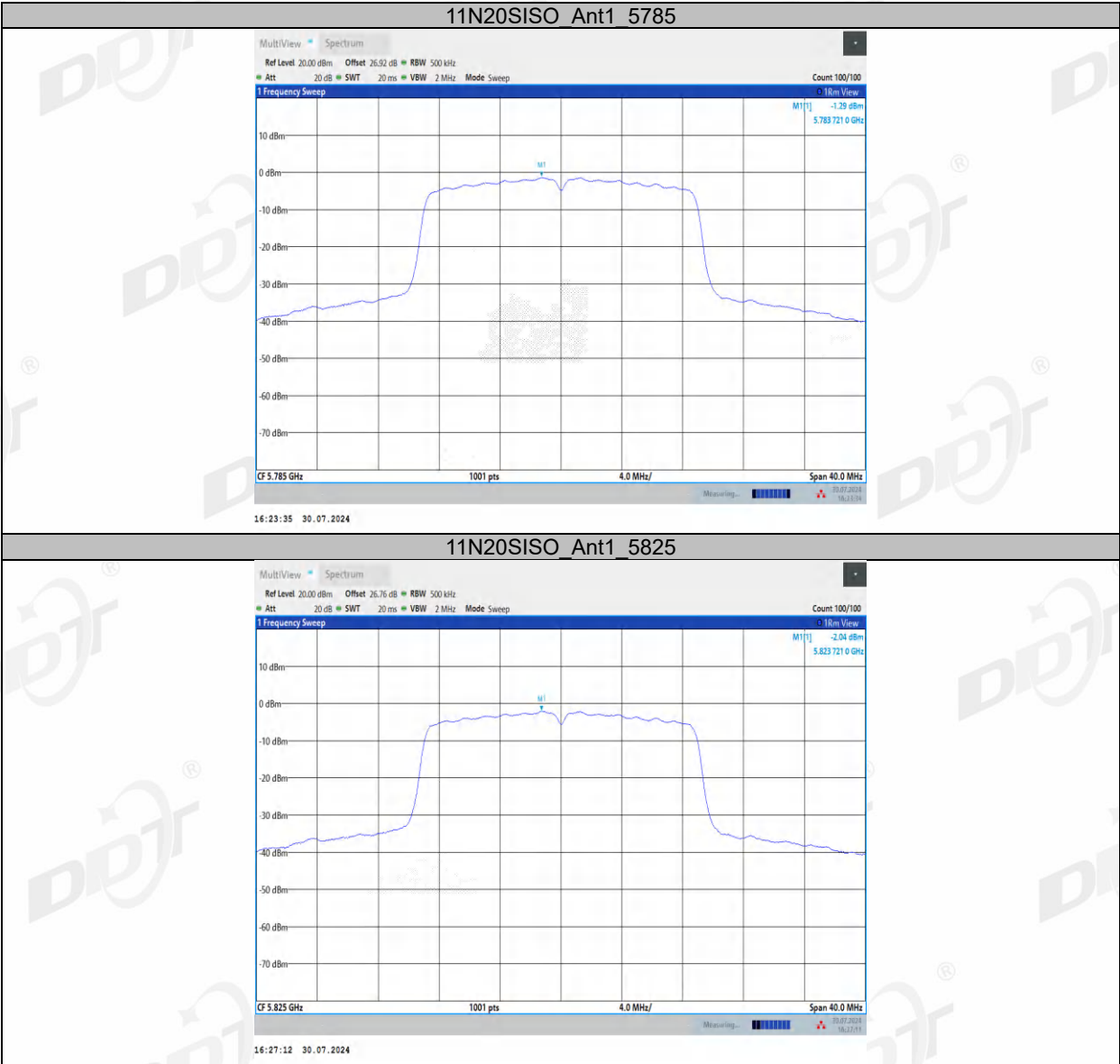
9.5. Test graphs











10. Frequency Stability Measurement

10.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

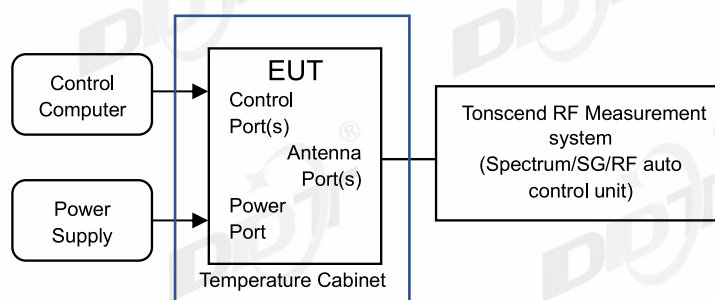
10.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

10.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

10.4. Test setup



10.5. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
1N20SISO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
		5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5260	NV	NT	20000.00	3.802281	20	PASS
			LV	NT	20000.00	3.802281	20	PASS
			HV	NT	20000.00	3.802281	20	PASS
		5280	NV	NT	20000.00	3.787879	20	PASS
			LV	NT	20000.00	3.787879	20	PASS
			HV	NT	20000.00	3.787879	20	PASS
		5320	NV	NT	20000.00	3.759398	20	PASS
			LV	NT	20000.00	3.759398	20	PASS
			HV	NT	20000.00	3.759398	20	PASS
		5500	NV	NT	20000.00	3.636364	20	PASS
			LV	NT	20000.00	3.636364	20	PASS
			HV	NT	20000.00	3.636364	20	PASS
		5580	NV	NT	20000.00	3.584229	20	PASS
			LV	NT	20000.00	3.584229	20	PASS
			HV	NT	20000.00	3.584229	20	PASS
		5700	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

		5720	NV	NT	20000.00	3.496503	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	20000.00	3.457217	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
1N20SISO	Ant1	5180	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5200	NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
		5240	NV	0	20000.00	3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	20000.00	3.816794	20	PASS
		5260	NV	0	20000.00	3.802281	20	PASS
			NV	10	20000.00	3.802281	20	PASS
			NV	20	20000.00	3.802281	20	PASS
			NV	30	20000.00	3.802281	20	PASS

			NV	40	20000.00	3.802281	20	PASS
			NV	0	20000.00	3.787879	20	PASS
		5280	NV	10	20000.00	3.787879	20	PASS
			NV	20	20000.00	3.787879	20	PASS
			NV	30	20000.00	3.787879	20	PASS
			NV	40	20000.00	3.787879	20	PASS
			NV	0	20000.00	3.759398	20	PASS
		5320	NV	10	20000.00	3.759398	20	PASS
			NV	20	20000.00	3.759398	20	PASS
			NV	30	20000.00	3.759398	20	PASS
			NV	40	20000.00	3.759398	20	PASS
			NV	0	20000.00	3.636364	20	PASS
		5500	NV	10	20000.00	3.636364	20	PASS
			NV	20	20000.00	3.636364	20	PASS
			NV	30	20000.00	3.636364	20	PASS
			NV	40	20000.00	3.636364	20	PASS
			NV	0	0.00	0.000000	20	PASS
		5580	NV	10	20000.00	3.584229	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
			NV	40	20000.00	3.584229	20	PASS
			NV	0	0.00	0.000000	20	PASS
		5700	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.508772	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
		5720	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
		5745	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS

			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5785	NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
		5825	NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.433476	20	PASS

11. Dynamic Frequency Selection

11.1. Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ Client with Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

11.2. Limit

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

11.3. Parameters of radar test waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance.

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\lceil \frac{1}{360} \right\rceil$ $\left\lceil \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right\rceil$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

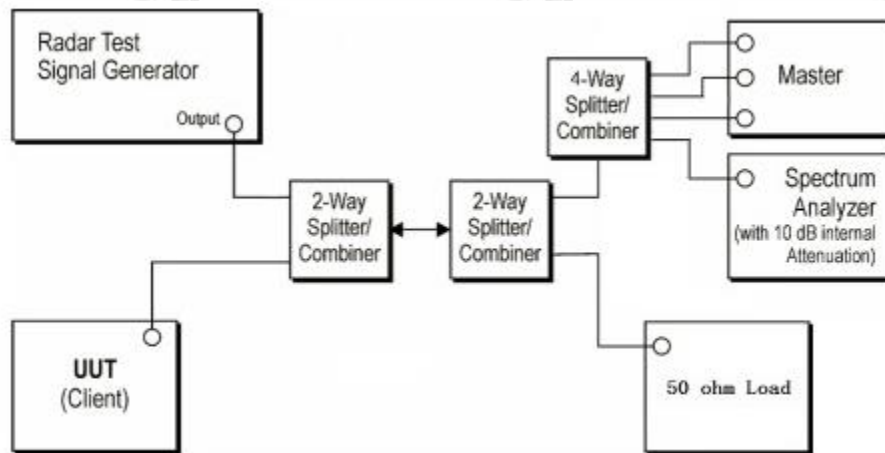
A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

11.4. Calibration of radar waveform

Radar Waveform Calibration Procedure:

- (1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- (2) The interference Radar Detection Threshold Level is $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup:

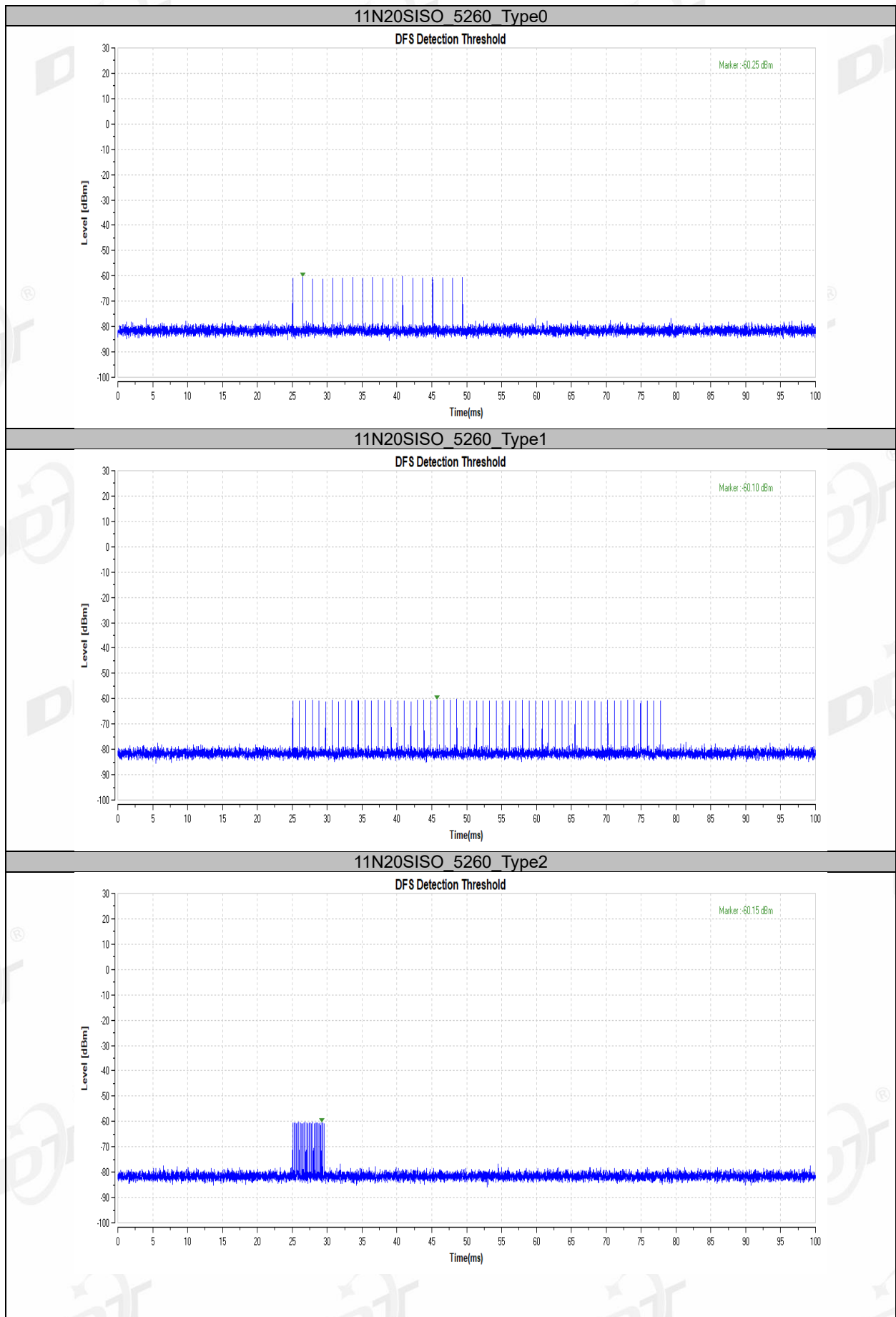


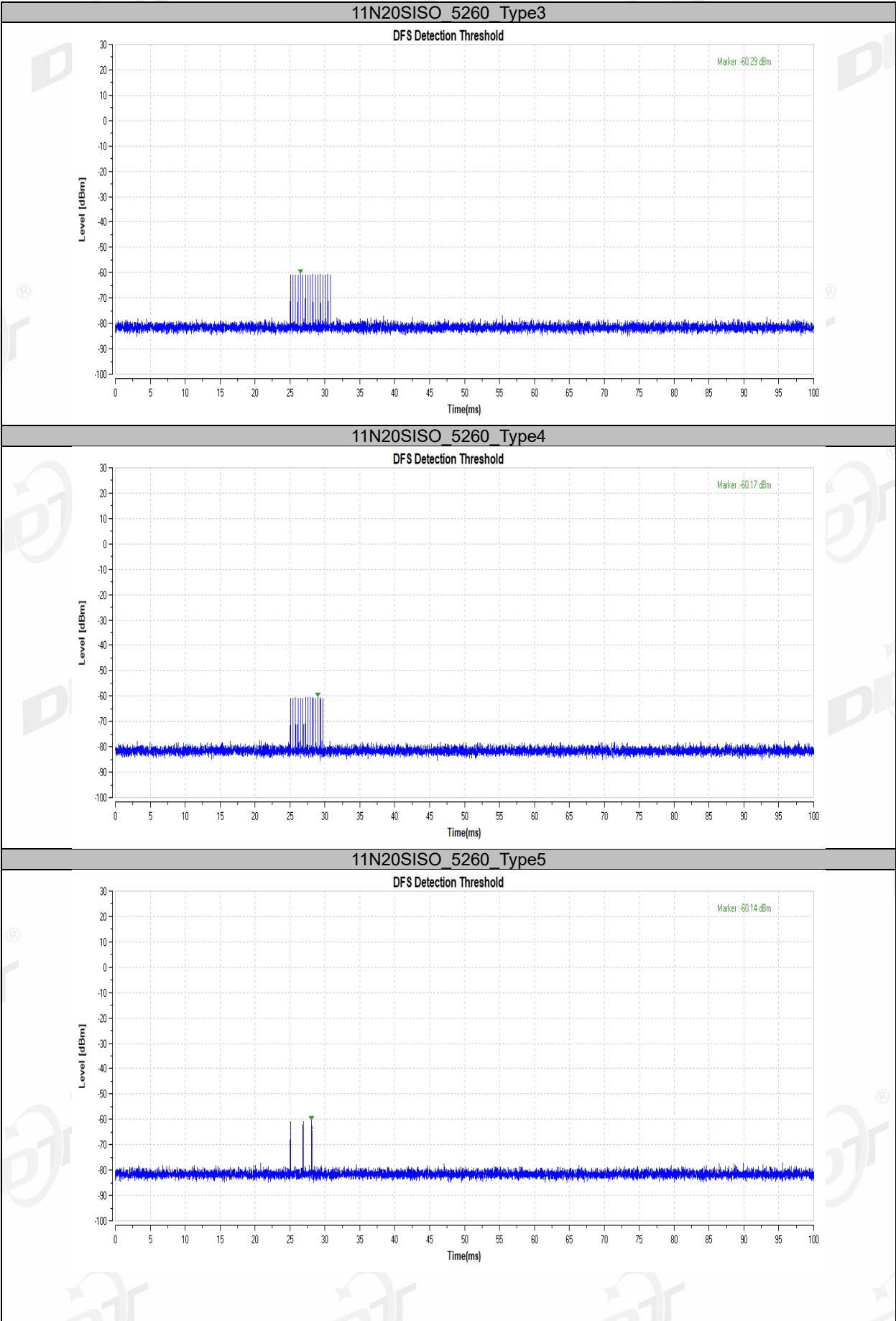
Note:

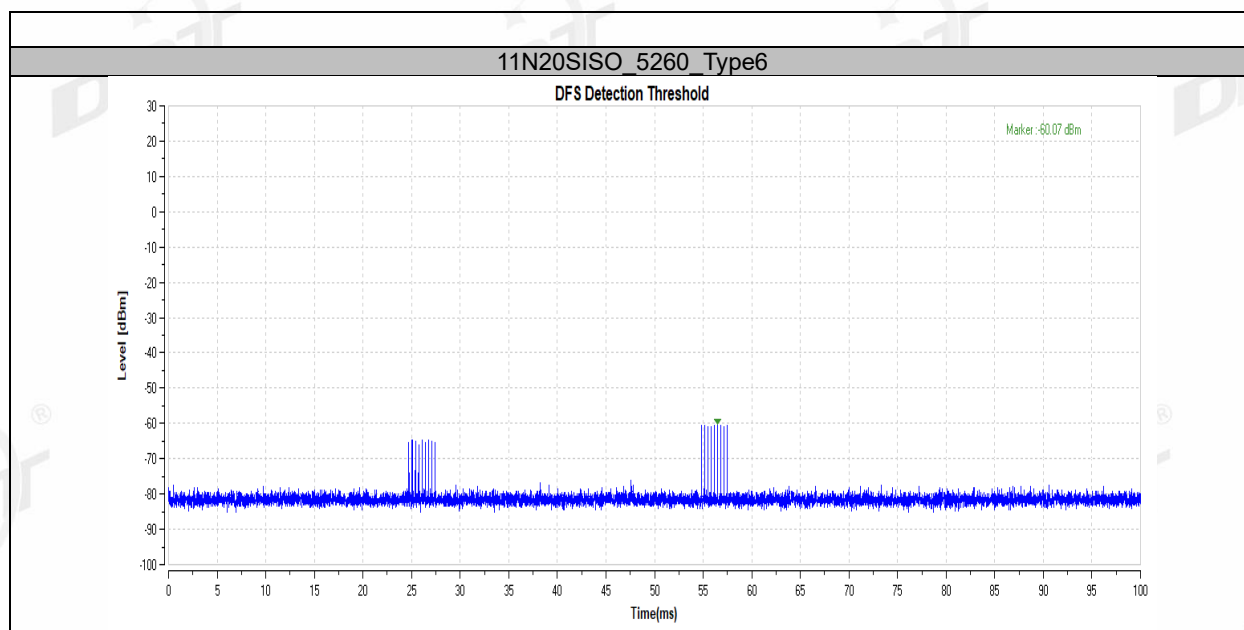
1. Use the software "Web" to set the frequency channel.
2. EUT is not support TPC and not with Radar detection.

Radar Waveform Calibration Result:

Frequency [dbm]	Radar Type	Result	Limit [dbm]	Verdict
5260	Type0	-60.25	-60.00	PASS
	Type1	-60.10	-60.00	PASS
	Type2	-60.15	-60.00	PASS
	Type3	-60.29	-60.00	PASS
	Type4	-60.17	-60.00	PASS
	Type5	-60.14	-60.00	PASS
	Type6	-60.07	-60.00	PASS







11.5. Channel closing transmission time, channel move time and non-occupancy period

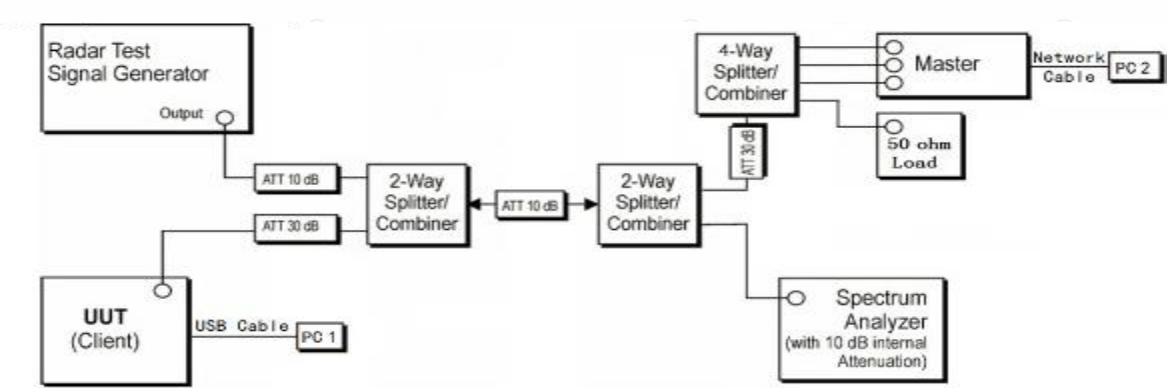
Block diagram of test setup Test Procedure:

- (1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Test Software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- (6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- (7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the
- (8) spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

11.6. Test setup

Setup for Client with injection at the Master

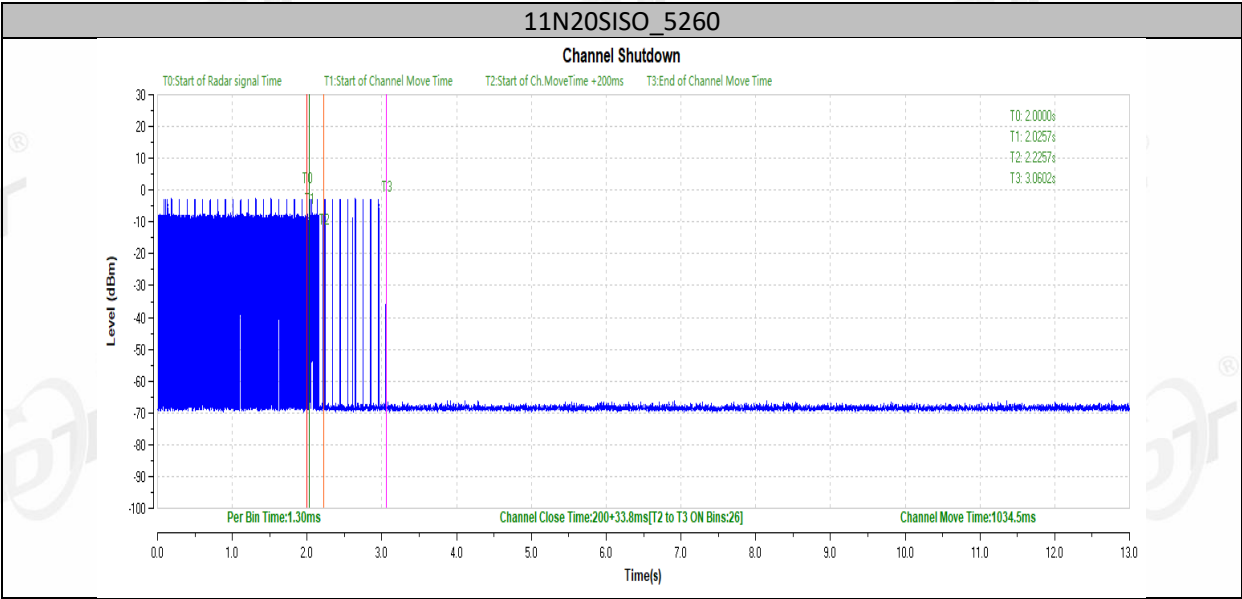


11.7. Test result

Test Engineer:	Zoe	Test Site:	RF Measurement System 4#
Ambient Condition:	22.3℃, 48.6%RH	Test Date:	2024.07.30-2024.07.30
Test Power Supply:	Battery	Sample Number:	S24062510-006

Test Mode	Frequency [MHz]	CCTT [ms]	Limit [ms]	CMT [ms]	Limit [ms]	Verdict
11N20SISO	5260	200+33.8	200+60	1034.5	10000	PASS

Test plots as follows:



12. Antenna Requirements

12.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

12.2. Result

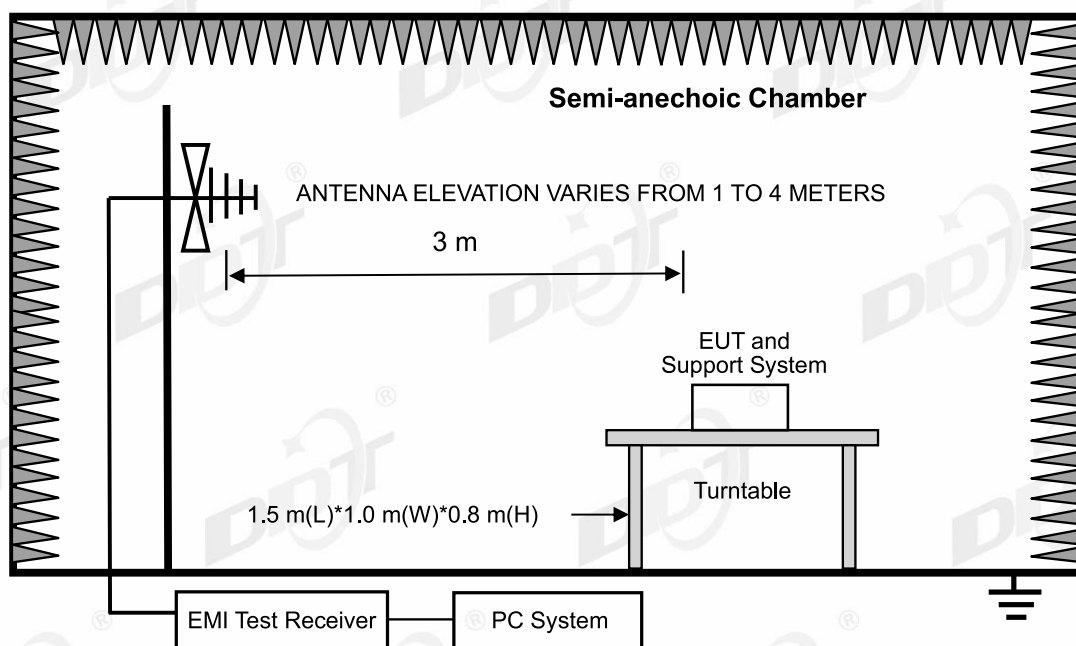
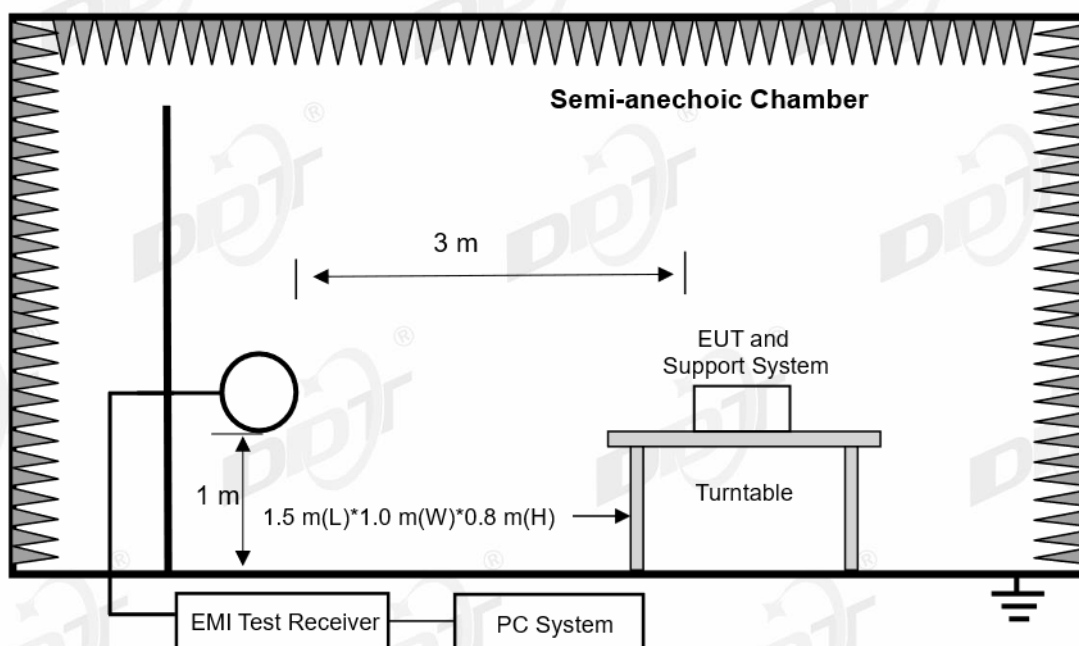
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

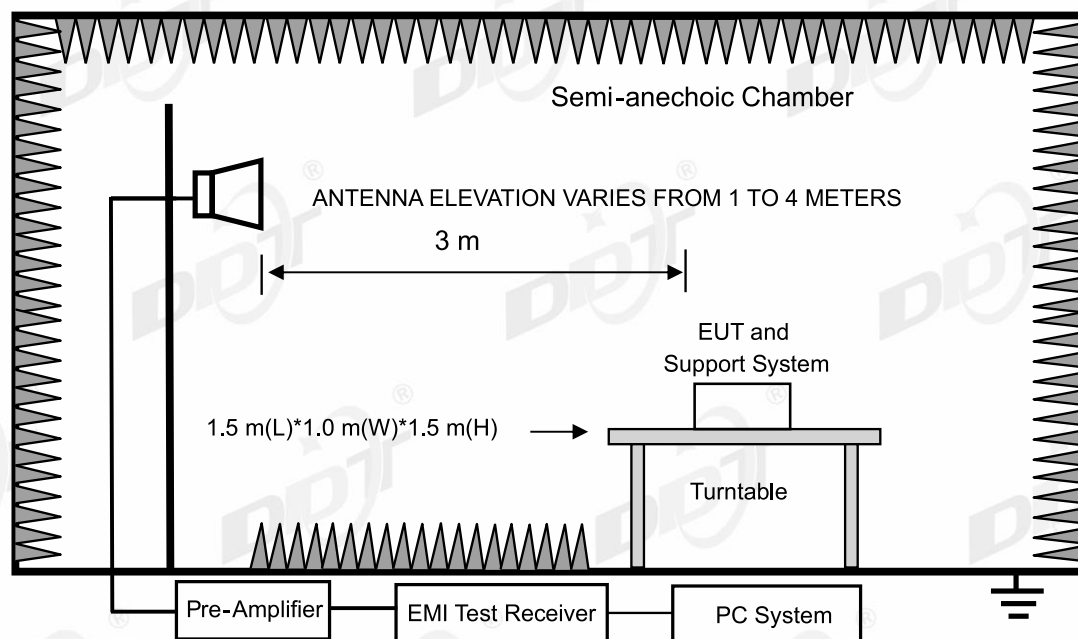
13. Radiated Emission

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31	1 Year
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	/
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11	2 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08	1 Year
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22	1 Year
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18	2 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11	2 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31	1 Year
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31	1 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31	1 Year

13.2. Block diagram of test setup





13.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

RSS-Gen section 8.10 Restricted frequency bands*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(2) FCC 15.209 Limit & RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		mV/m	dB(mV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(mV)/m (Peak) 54.0 dB(mV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

13.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10:2020 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2020 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2020 clause 4.1.4.2.2 procedure for average measure.

(8) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

(9) 30 MHz ~ 40 GHz: (Scan with all mode, the worst case is record and report)

(10) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with the worst mode.

13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5180MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

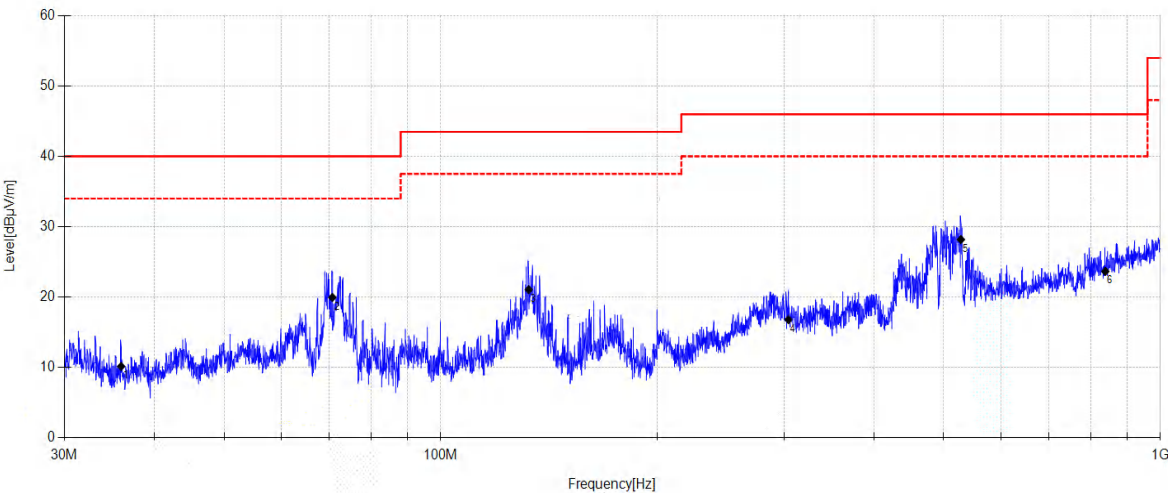
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	35.974	25.37	11.89	3.80	-30.91	10.15	40.00	29.85	QP	Horizontal
2	70.720	36.9	9.58	4.03	-30.56	19.95	40.00	20.05	QP	Horizontal
3	132.553	38.8	8.66	4.40	-30.80	21.06	43.50	22.44	QP	Horizontal
4	304.255	28.14	13.70	5.24	-30.29	16.79	46.00	29.21	QP	Horizontal
5	528.313	34.34	17.63	6.10	-29.90	28.17	46.00	17.83	QP	Horizontal
6	838.623	26.03	20.13	7.05	-29.55	23.66	46.00	22.34	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5180MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

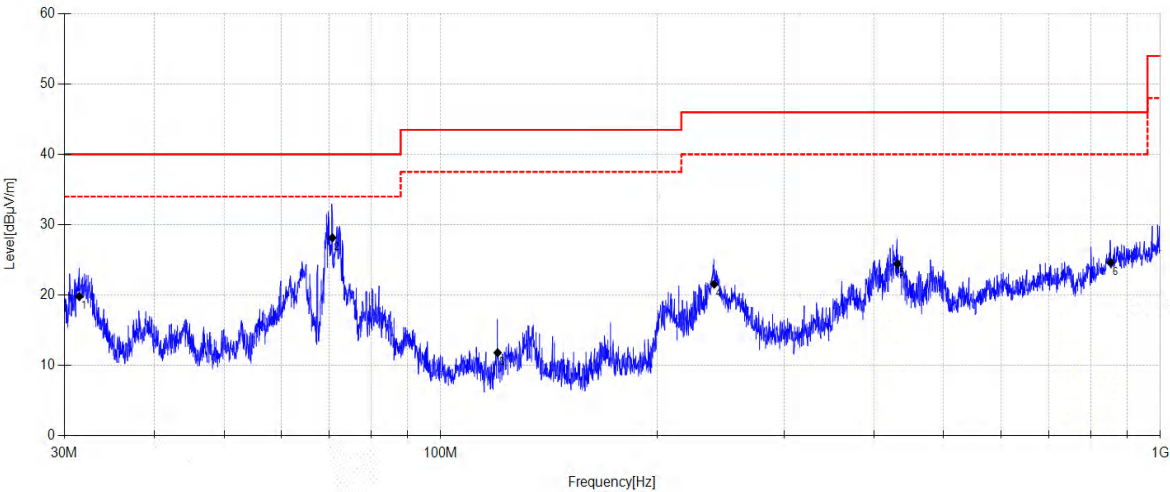
DDT 3# Chamber

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Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	31.465	36.75	10.26	3.77	-30.98	19.80	40.00	20.20	QP	Vertical
2	70.720	45.1	9.58	4.03	-30.56	28.15	40.00	11.85	QP	Vertical
3	119.991	28.32	10.00	4.33	-30.84	11.81	43.50	31.69	QP	Vertical
4	239.888	35.3	11.79	4.94	-30.48	21.55	46.00	24.45	QP	Vertical
5	431.104	33.05	15.69	5.74	-30.04	24.44	46.00	21.56	QP	Vertical
6	853.453	25.82	21.13	7.08	-29.42	24.61	46.00	21.39	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5240MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

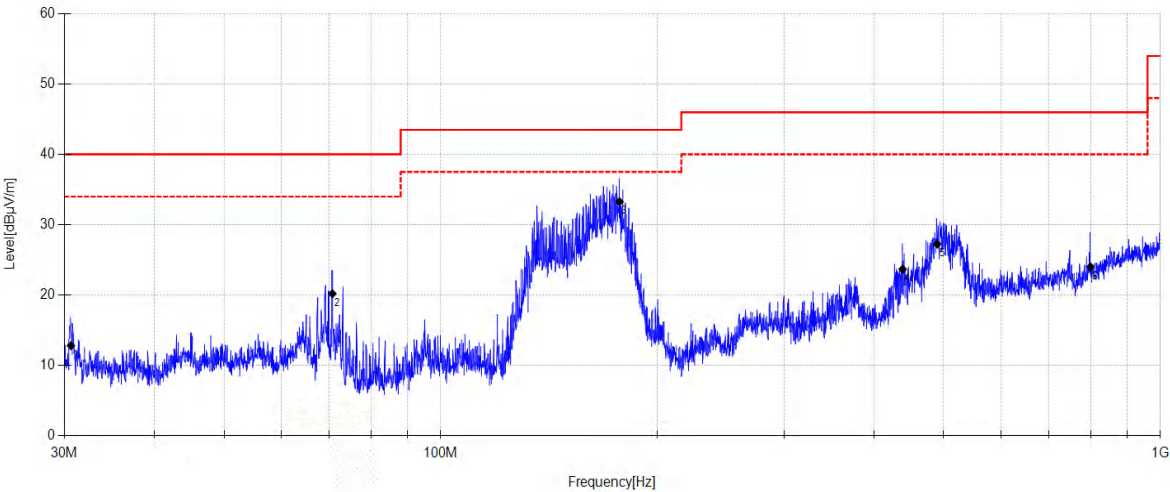
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Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.638	29.68	10.36	3.76	-30.99	12.81	40.00	27.19	QP	Horizontal
2	70.720	37.15	9.58	4.03	-30.56	20.20	40.00	19.80	QP	Horizontal
3	177.197	49.82	9.48	4.64	-30.67	33.27	43.50	10.23	QP	Horizontal
4	438.420	31.87	16.07	5.77	-30.02	23.69	46.00	22.31	QP	Horizontal
5	489.783	35	16.21	5.96	-29.92	27.25	46.00	18.75	QP	Horizontal
6	799.576	27.23	19.74	6.95	-29.90	24.02	46.00	21.98	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5240MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

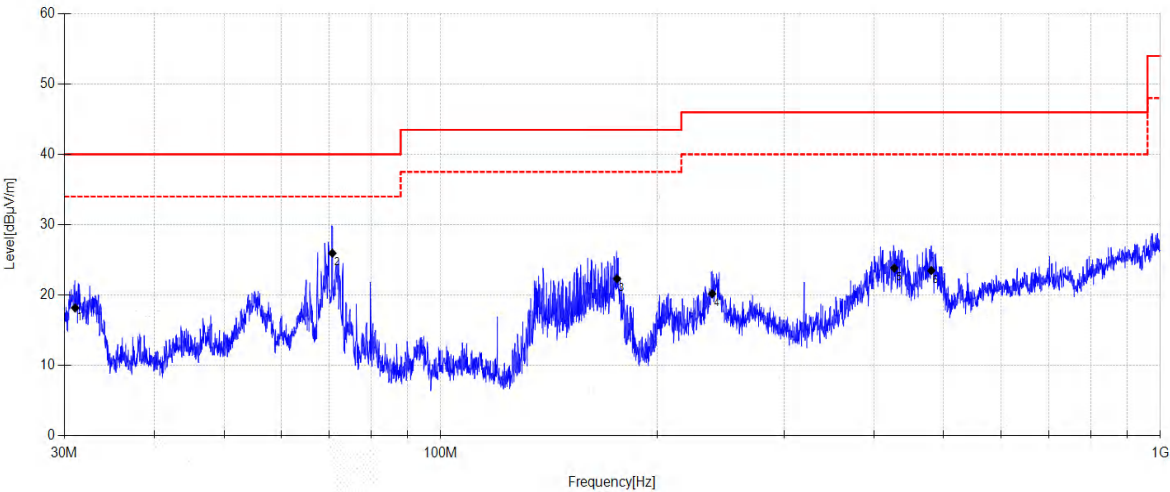
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Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	31.049	35	10.39	3.77	-30.98	18.18	40.00	21.82	QP	Vertical
2	70.720	42.9	9.58	4.03	-30.56	25.95	40.00	14.05	QP	Vertical
3	175.836	38.65	9.70	4.63	-30.67	22.31	43.50	21.19	QP	Vertical
4	238.379	34.06	11.67	4.94	-30.48	20.19	46.00	25.81	QP	Vertical
5	426.893	32.94	15.23	5.72	-30.05	23.84	46.00	22.16	QP	Vertical
6	480.598	31	16.50	5.93	-29.94	23.49	46.00	22.51	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5260MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

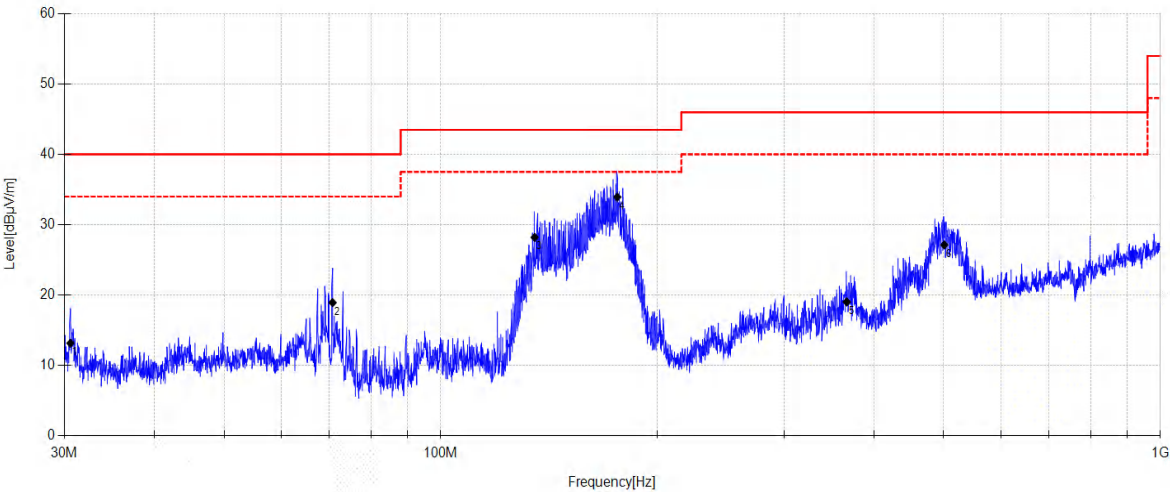
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Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.595	30.03	10.36	3.76	-30.99	13.16	40.00	26.84	QP	Horizontal
2	70.770	35.89	9.57	4.03	-30.56	18.93	40.00	21.07	QP	Horizontal
3	135.086	46.11	8.47	4.41	-30.79	28.20	43.50	15.30	QP	Horizontal
4	175.959	50.2	9.78	4.63	-30.67	33.94	43.50	9.56	QP	Horizontal
5	366.640	28.51	15.20	5.49	-30.17	19.03	46.00	26.97	QP	Horizontal
6	500.897	34	17.03	6.00	-29.90	27.13	46.00	18.87	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5260MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

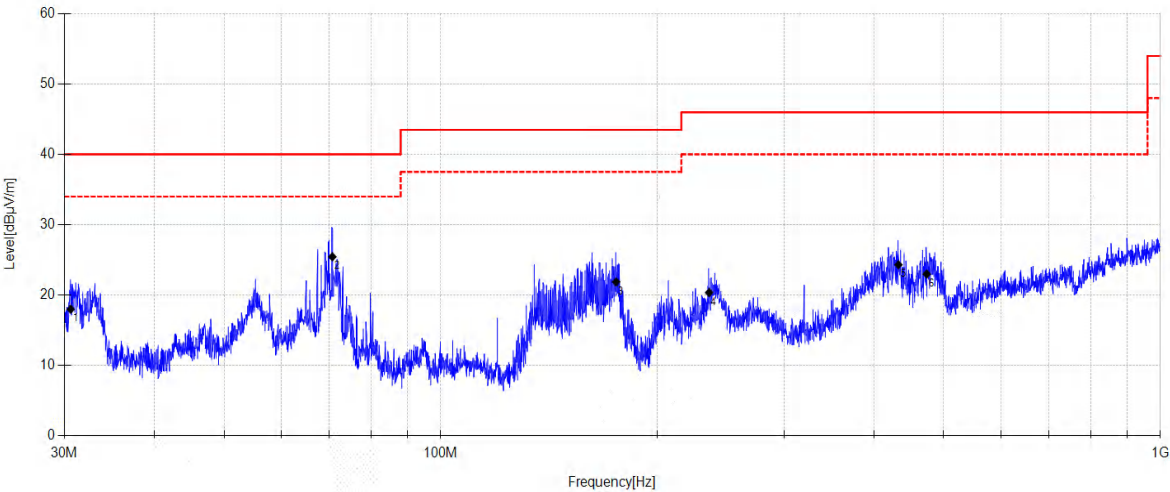
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Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.616	34.86	10.36	3.76	-30.99	17.99	40.00	22.01	QP	Vertical
2	70.720	42.39	9.58	4.03	-30.56	25.44	40.00	14.56	QP	Vertical
3	175.343	38.5	9.41	4.63	-30.67	21.87	43.50	21.63	QP	Vertical
4	236.050	34.43	11.48	4.93	-30.49	20.35	46.00	25.65	QP	Vertical
5	432.618	32.79	15.81	5.74	-30.03	24.31	46.00	21.69	QP	Vertical
6	473.573	30.87	16.16	5.90	-29.95	22.98	46.00	23.02	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5320MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

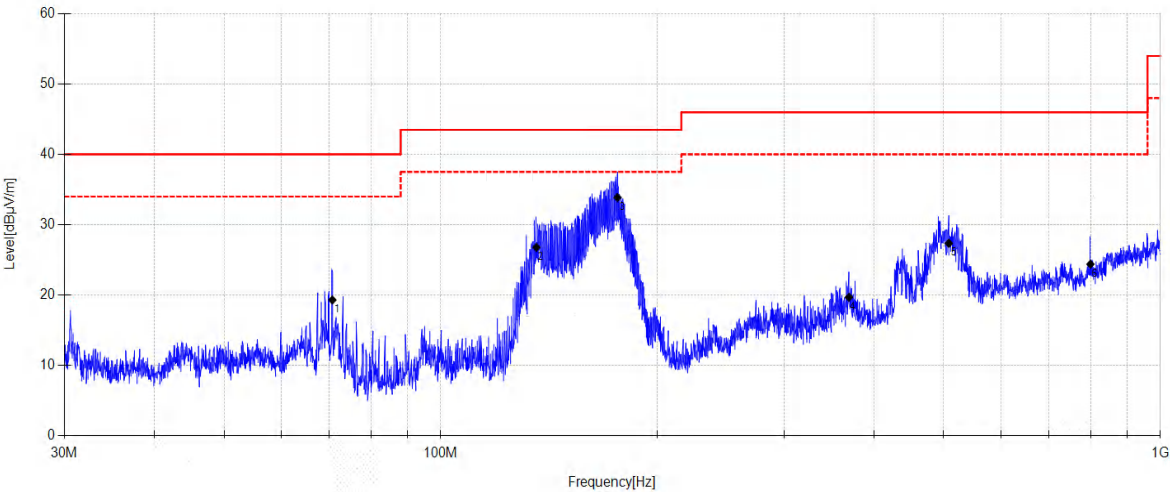
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-032842_H

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	70.720	36.25	9.58	4.03	-30.56	19.30	40.00	20.70	QP	Horizontal
2	135.846	44.92	8.25	4.41	-30.79	26.79	43.50	16.71	QP	Horizontal
3	176.083	50.13	9.79	4.63	-30.67	33.88	43.50	9.62	QP	Horizontal
4	369.219	28.69	15.66	5.50	-30.16	19.69	46.00	26.31	QP	Horizontal
5	508.327	35.2	16.03	6.03	-29.90	27.36	46.00	18.64	QP	Horizontal
6	799.576	27.6	19.74	6.95	-29.90	24.39	46.00	21.61	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5320MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

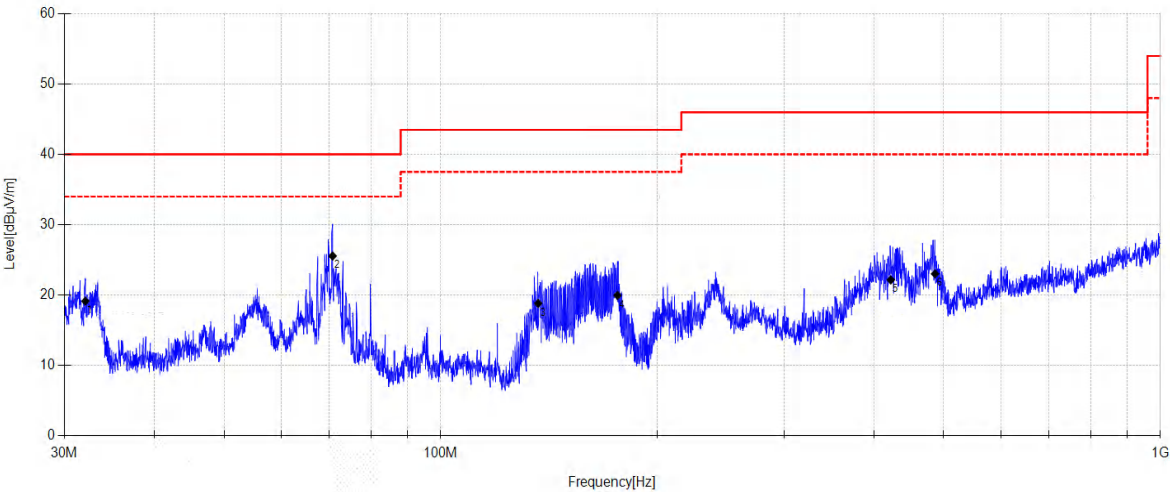
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-032903_V

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.089	36.16	10.17	3.77	-30.97	19.13	40.00	20.87	QP	Vertical
2	70.770	42.52	9.57	4.03	-30.56	25.56	40.00	14.44	QP	Vertical
3	136.610	37.05	8.14	4.42	-30.79	18.82	43.50	24.68	QP	Vertical
4	176.083	36.2	9.79	4.63	-30.67	19.95	43.50	23.55	QP	Vertical
5	422.131	31.35	15.17	5.70	-30.06	22.16	46.00	23.84	QP	Vertical
6	486.361	30.58	16.42	5.95	-29.93	23.02	46.00	22.98	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5500MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

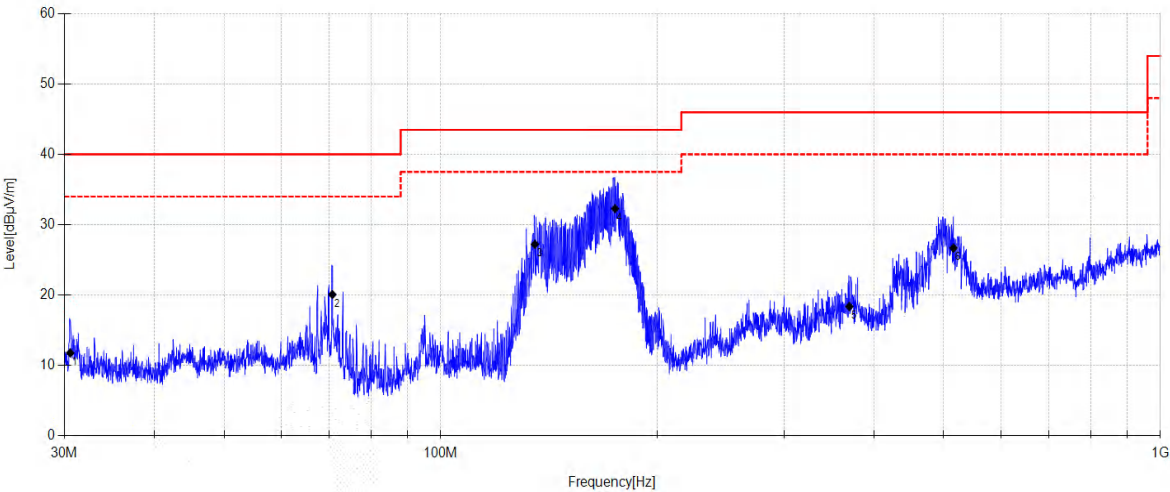
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-032941_H

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.573	28.65	10.36	3.76	-30.99	11.78	40.00	28.22	QP	Horizontal
2	70.720	37.03	9.58	4.03	-30.56	20.08	40.00	19.92	QP	Horizontal
3	135.181	45.14	8.45	4.41	-30.79	27.21	43.50	16.29	QP	Horizontal
4	174.730	49.15	9.20	4.62	-30.68	32.29	43.50	11.21	QP	Horizontal
5	369.737	27.28	15.75	5.50	-30.16	18.37	46.00	27.63	QP	Horizontal
6	515.867	34.04	16.48	6.06	-29.90	26.68	46.00	19.32	QP	Horizontal

Note:

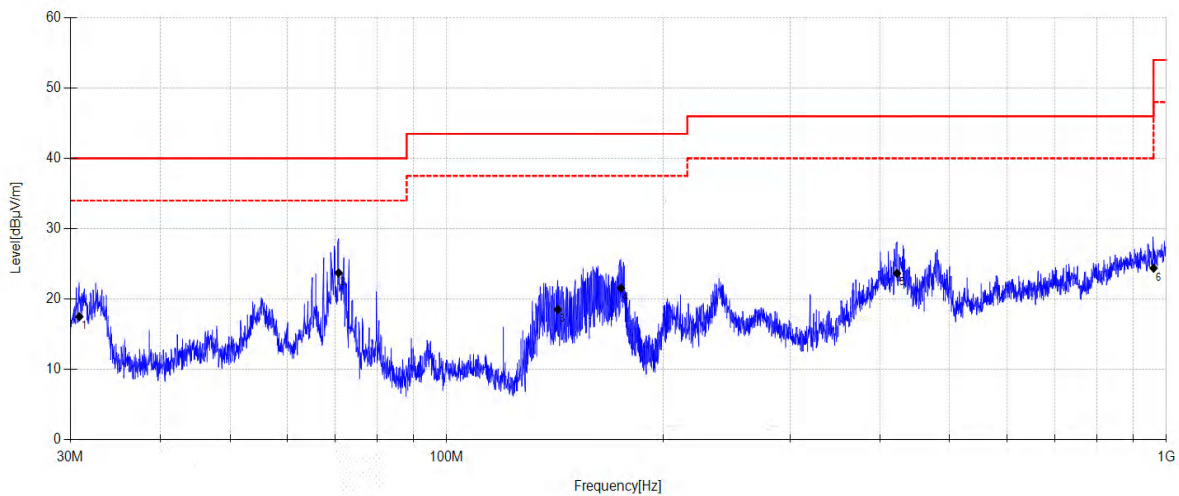
1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-08-01 **Tested By:** Genliu
EUT: Tabletop Wireless Speaker **Model Number:** EDF286006
Test Mode: 11N20 5500MHz TX mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:62.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-033000_V
Memo: Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.875	34.32	10.39	3.77	-30.99	17.49	40.00	22.51	QP	Vertical
2	70.770	40.69	9.57	4.03	-30.56	23.73	40.00	16.27	QP	Vertical
3	142.680	35.92	8.91	4.45	-30.77	18.51	43.50	24.99	QP	Vertical
4	174.730	38.41	9.20	4.62	-30.68	21.55	43.50	21.95	QP	Vertical
5	422.427	32.86	15.15	5.71	-30.06	23.66	46.00	22.34	QP	Vertical
6	960.148	23.31	22.19	7.36	-28.46	24.40	54.00	29.60	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5580MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

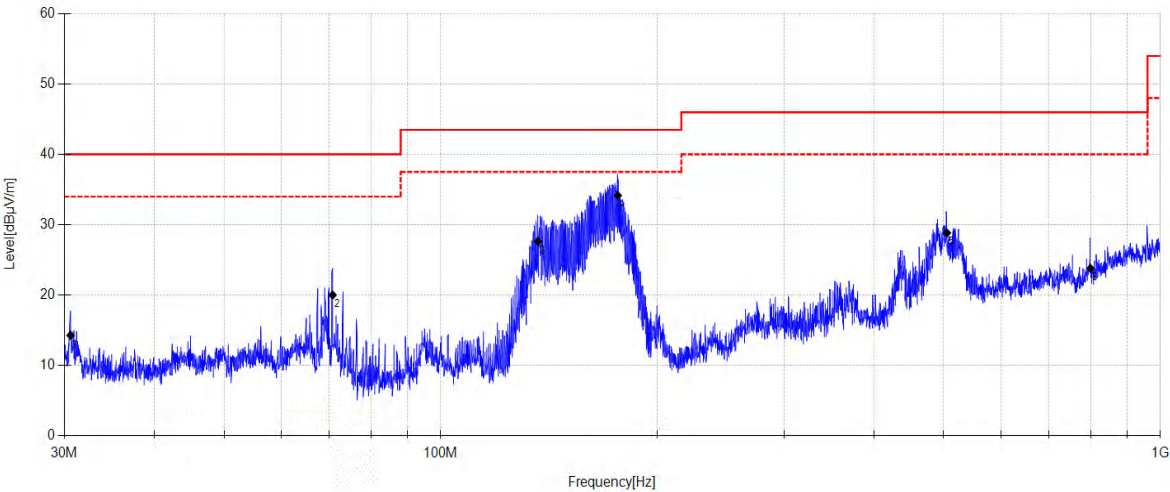
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-033028_H

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.595	31.15	10.36	3.76	-30.99	14.28	40.00	25.72	QP	Horizontal
2	70.770	36.97	9.57	4.03	-30.56	20.01	40.00	19.99	QP	Horizontal
3	136.514	45.84	8.15	4.42	-30.79	27.62	43.50	15.88	QP	Horizontal
4	176.206	50.42	9.78	4.63	-30.67	34.16	43.50	9.34	QP	Horizontal
5	505.129	36.05	16.67	6.02	-29.90	28.84	46.00	17.16	QP	Horizontal
6	799.576	27.01	19.74	6.95	-29.90	23.80	46.00	22.20	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5580MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

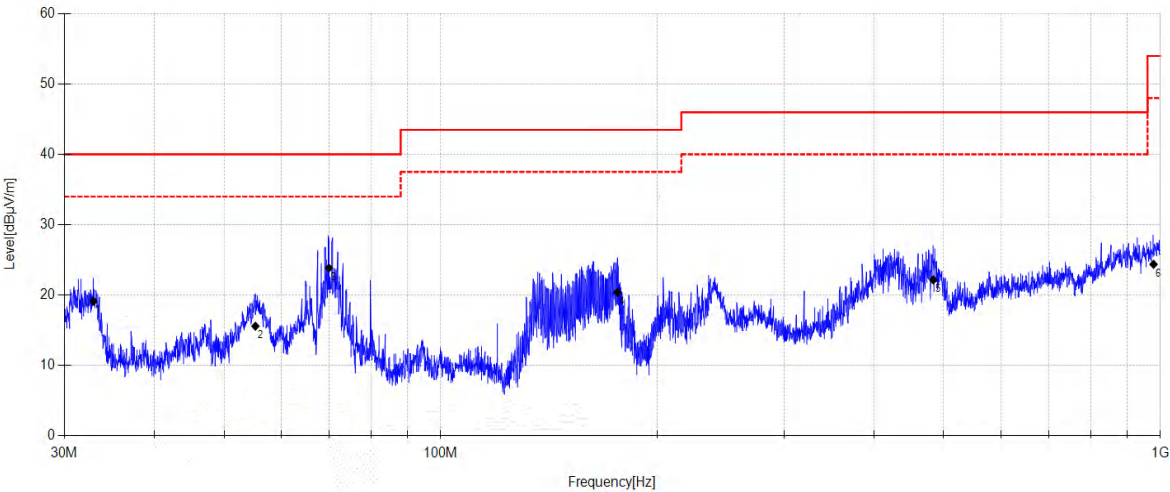
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-033047_V

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.932	35.46	10.85	3.78	-30.96	19.13	40.00	20.87	QP	Vertical
2	55.291	29.74	12.58	3.92	-30.66	15.58	40.00	24.42	QP	Vertical
3	69.931	40.55	9.85	4.02	-30.57	23.85	40.00	16.15	QP	Vertical
4	176.083	36.65	9.79	4.63	-30.67	20.40	43.50	23.10	QP	Vertical
5	483.640	29.65	16.50	5.94	-29.93	22.16	46.00	23.84	QP	Vertical
6	978.498	23.16	22.10	7.40	-28.29	24.37	54.00	29.63	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5700MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

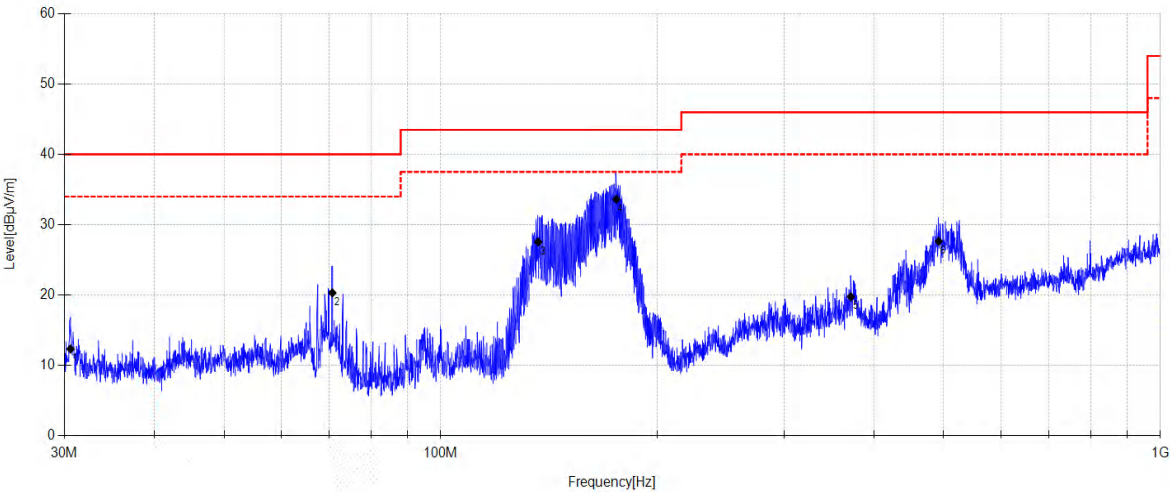
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-033116_H

Memo:

Sample Number:S24062510-007 Power Setting:NA



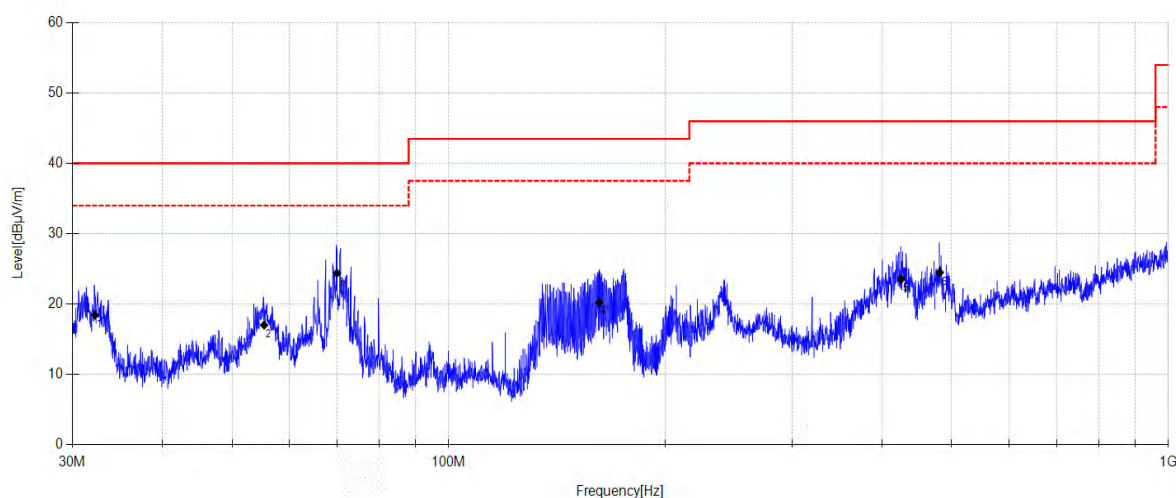
Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	30.595	29.2	10.36	3.76	-30.99	12.33	40.00	27.67	QP	Horizontal
2	70.720	37.27	9.58	4.03	-30.56	20.32	40.00	19.68	QP	Horizontal
3	136.610	45.78	8.14	4.42	-30.79	27.55	43.50	15.95	QP	Horizontal
4	175.466	50.18	9.48	4.63	-30.67	33.62	43.50	9.88	QP	Horizontal
5	371.557	28.73	15.68	5.51	-30.16	19.76	46.00	26.24	QP	Horizontal
6	492.193	35.21	16.38	5.97	-29.92	27.64	46.00	18.36	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2024-08-01 **Tested By:** Genliu
EUT: Tabletop Wireless Speaker **Model Number:** EDF286006
Test Mode: 11N20 5700MHz TX mode **Power Supply:** AC 120V/60Hz
Condition: Temp:23.2°C;Humi:62.7% **Test Site:** DDT 3# Chamber
File Path: d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-033136_V
Memo: Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	32.247	35.34	10.30	3.77	-30.97	18.44	40.00	21.56	QP	Vertical
2	55.408	31.22	12.54	3.92	-30.66	17.02	40.00	22.98	QP	Vertical
3	69.931	41.09	9.85	4.02	-30.57	24.39	40.00	15.61	QP	Vertical
4	161.873	37.32	9.07	4.55	-30.71	20.23	43.50	23.27	QP	Vertical
5	425.399	32.8	15.05	5.72	-30.05	23.52	46.00	22.48	QP	Vertical
6	481.272	32.01	16.50	5.93	-29.94	24.50	46.00	21.50	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5720MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

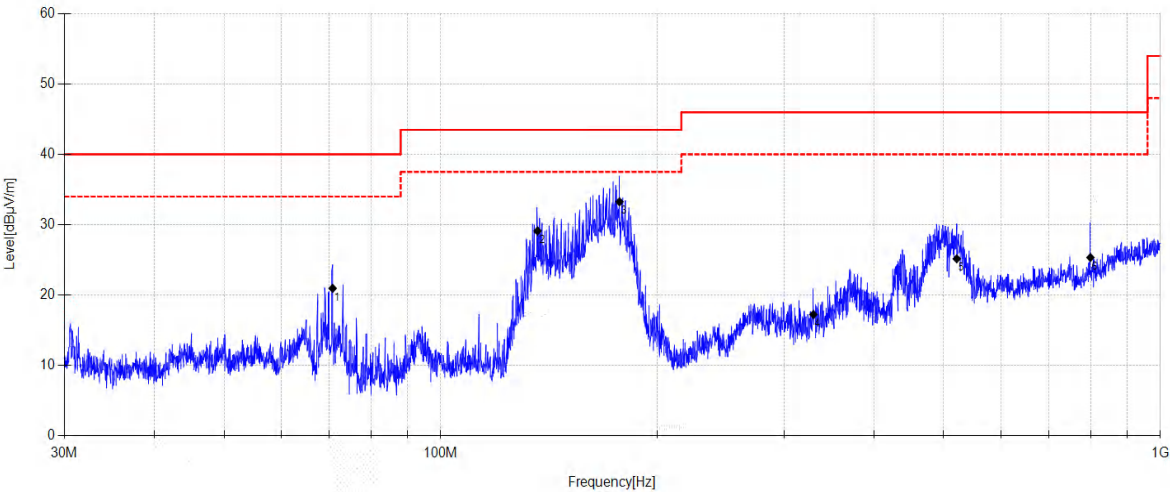
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-032055_H

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	70.770	37.92	9.57	4.03	-30.56	20.96	40.00	19.04	QP	Horizontal
2	136.323	47.31	8.17	4.42	-30.79	29.11	43.50	14.39	QP	Horizontal
3	177.197	49.81	9.48	4.64	-30.67	33.26	43.50	10.24	QP	Horizontal
4	329.574	27.91	14.23	5.34	-30.24	17.24	46.00	28.76	QP	Horizontal
5	521.322	32.29	16.69	6.08	-29.90	25.16	46.00	20.84	QP	Horizontal
6	799.576	28.55	19.74	6.95	-29.90	25.34	46.00	20.66	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-01

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5720MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

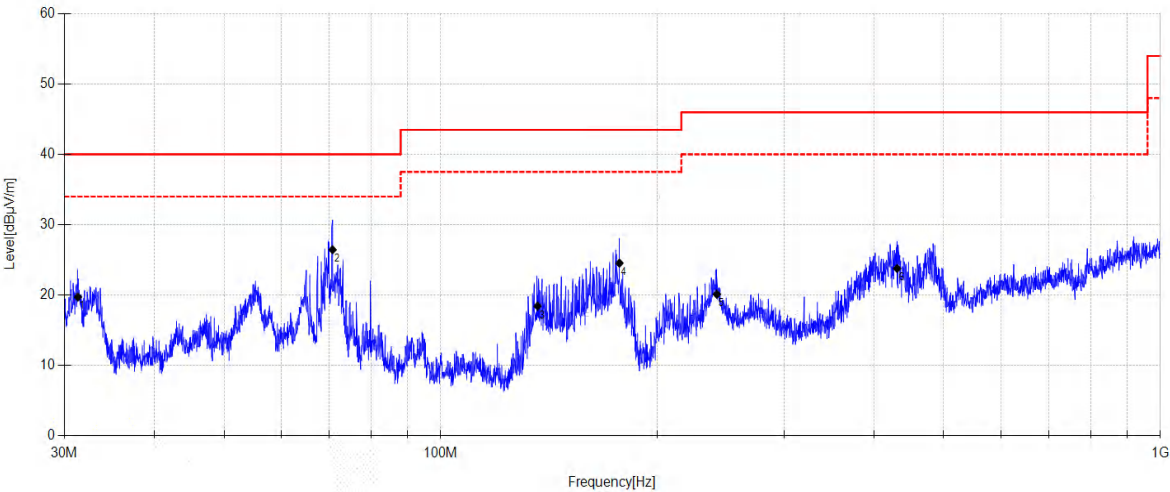
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24062510-1E\FCC BELOW1G-5GWIFI\20240801-032126_V

Memo:

Sample Number:S24062510-007 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	31.333	36.64	10.30	3.77	-30.98	19.73	40.00	20.27	QP	Vertical
2	70.770	43.4	9.57	4.03	-30.56	26.44	40.00	13.56	QP	Vertical
3	136.323	36.64	8.17	4.42	-30.79	18.44	43.50	25.06	QP	Vertical
4	177.197	41.09	9.48	4.64	-30.67	24.54	43.50	18.96	QP	Vertical
5	241.915	33.95	11.69	4.95	-30.47	20.12	46.00	25.88	QP	Vertical
6	430.802	32.42	15.66	5.74	-30.04	23.78	46.00	22.22	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5180MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

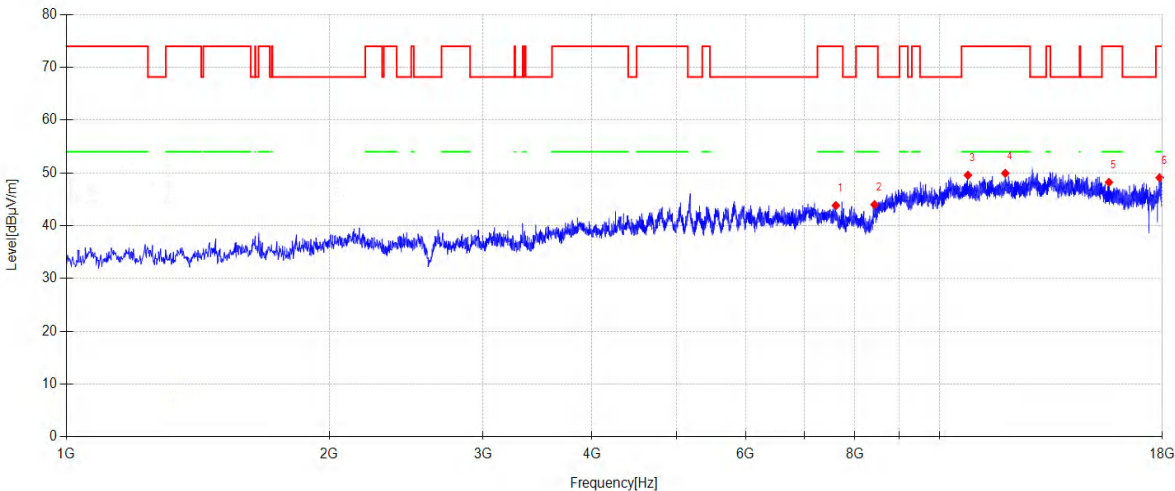
File Path:

d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G-5GWIFI\1

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7609.600	43.19	36.52	6.33	-42.22	43.82	74.00	30.18	PK	Horizontal
2	8425.600	41.06	37.50	6.77	-41.32	44.01	74.00	29.99	PK	Horizontal
3	10778.400	41.87	39.40	7.31	-39.01	49.57	74.00	24.43	PK	Horizontal
4	11897.000	42.62	38.90	7.93	-39.51	49.94	74.00	24.06	PK	Horizontal
5	15637.000	40.02	38.56	8.80	-39.14	48.24	74.00	25.76	PK	Horizontal
6	17870.800	39.12	41.58	10.51	-42.11	49.10	74.00	24.90	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5180MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

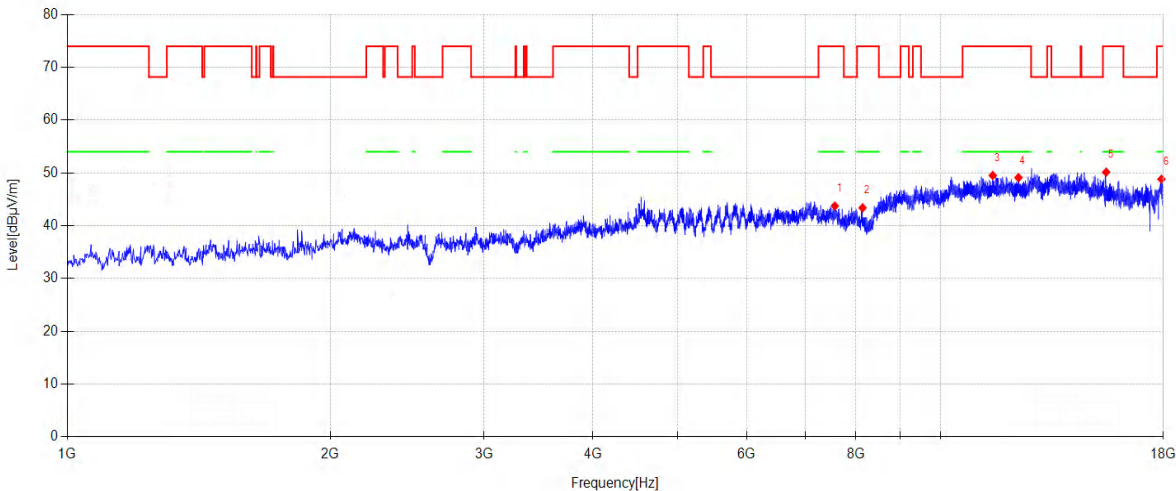
File Path:

d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G-5GWIFI\2

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7568.800	43.11	36.44	6.31	-42.12	43.74	74.00	30.26	PK	Vertical
2	8143.400	42.10	37.20	6.66	-42.57	43.39	74.00	30.61	PK	Vertical
3	11478.800	41.95	39.22	7.67	-39.32	49.52	74.00	24.48	PK	Vertical
4	12282.900	41.37	39.30	8.11	-39.67	49.11	74.00	24.89	PK	Vertical
5	15478.900	41.62	38.84	8.74	-39.05	50.15	74.00	23.85	PK	Vertical
6	17906.500	38.52	41.93	10.56	-42.19	48.82	74.00	25.18	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5240MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

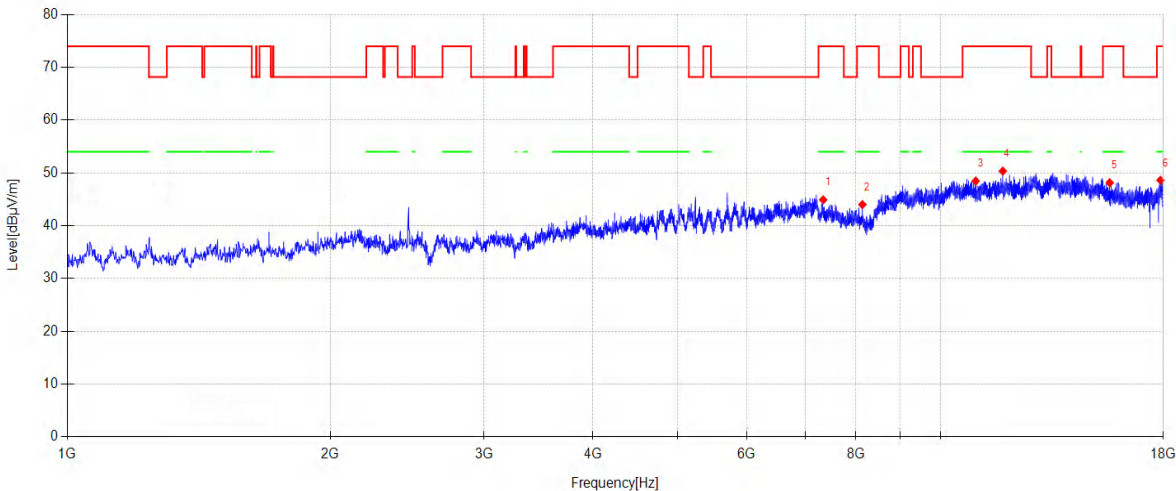
File Path:

d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G-5GWIFI\3

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7339.300	43.49	36.82	6.15	-41.55	44.91	74.00	29.09	PK	Horizontal
2	8140.000	42.72	37.20	6.66	-42.58	44.00	74.00	30.00	PK	Horizontal
3	10973.900	40.88	39.30	7.37	-39.08	48.47	74.00	25.53	PK	Horizontal
4	11786.500	43.04	38.91	7.86	-39.46	50.35	74.00	23.65	PK	Horizontal
5	15625.100	39.93	38.57	8.79	-39.14	48.15	74.00	25.85	PK	Horizontal
6	17865.700	38.69	41.52	10.50	-42.10	48.61	74.00	25.39	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5240MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

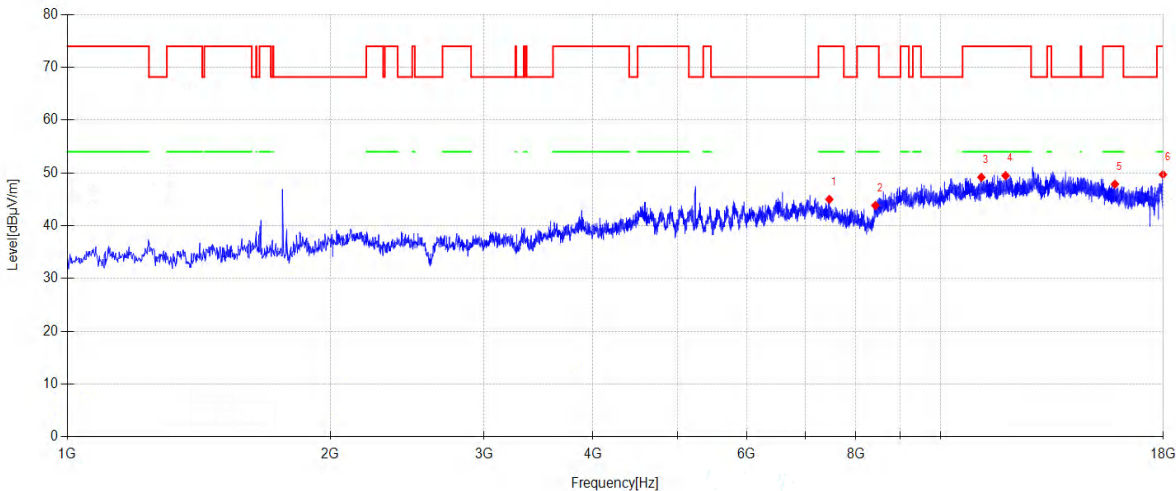
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7460.000	44.03	36.58	6.23	-41.85	44.99	74.00	29.01	PK	Vertical
2	8423.900	40.90	37.50	6.77	-41.33	43.84	74.00	30.16	PK	Vertical
3	11138.800	41.62	39.26	7.46	-39.16	49.18	74.00	24.82	PK	Vertical
4	11873.200	42.18	38.90	7.91	-39.50	49.49	74.00	24.51	PK	Vertical
5	15841.000	40.04	38.22	8.87	-39.26	47.87	74.00	26.13	PK	Vertical
6	17981.300	39.09	42.31	10.66	-42.36	49.70	74.00	24.30	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5260MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

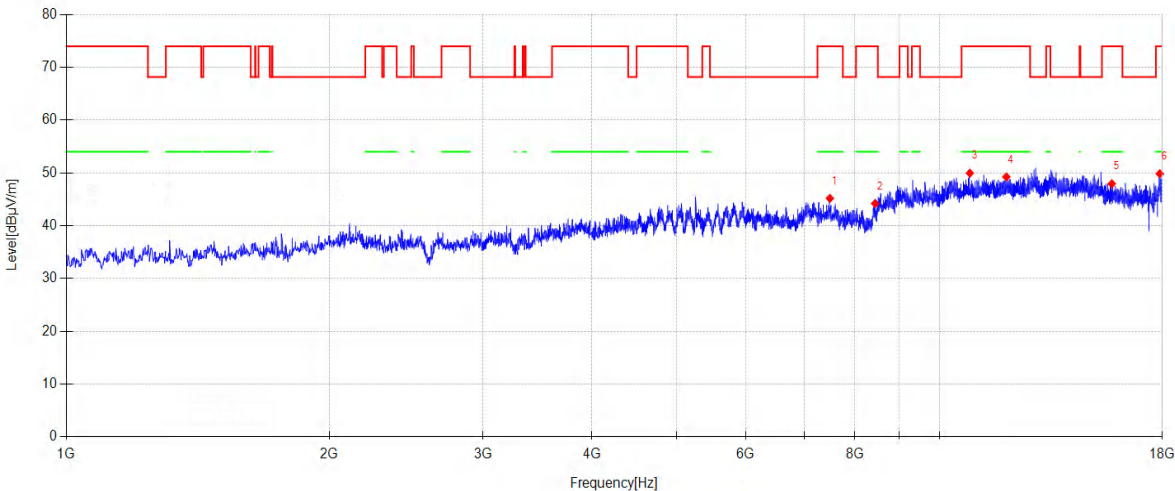
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7490.600	44.34	36.52	6.25	-41.93	45.18	74.00	28.82	PK	Horizontal
2	8440.900	41.19	37.50	6.78	-41.26	44.21	74.00	29.79	PK	Horizontal
3	10834.500	42.30	39.37	7.33	-39.03	49.97	74.00	24.03	PK	Horizontal
4	11929.300	41.84	38.99	7.95	-39.53	49.25	74.00	24.75	PK	Horizontal
5	15756.000	39.94	38.39	8.84	-39.21	47.96	74.00	26.04	PK	Horizontal
6	17882.700	39.74	41.71	10.53	-42.14	49.84	74.00	24.16	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5260MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

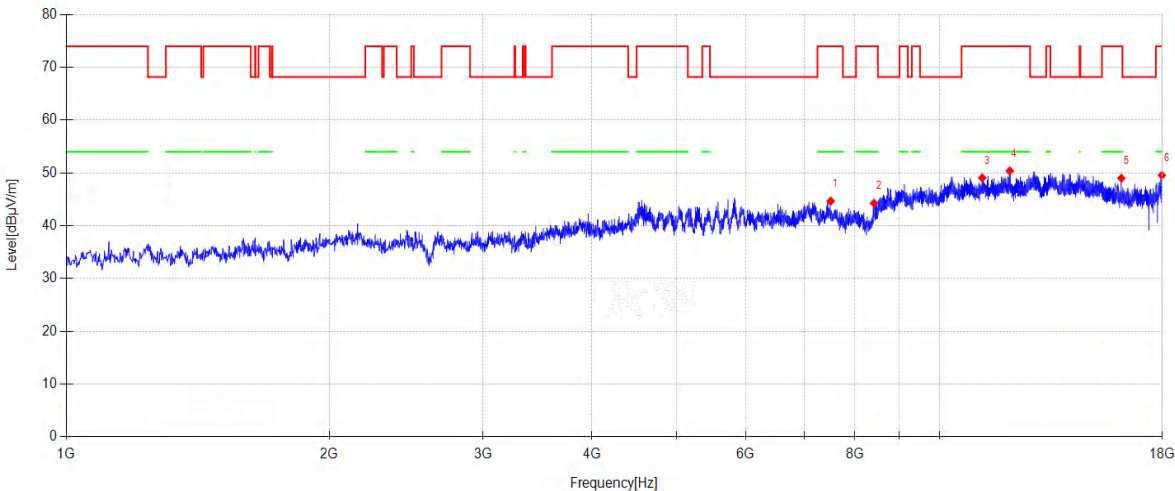
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7507.600	43.90	36.48	6.27	-41.97	44.68	74.00	29.32	PK	Vertical
2	8417.100	41.36	37.50	6.77	-41.36	44.27	74.00	29.73	PK	Vertical
3	11193.200	41.53	39.21	7.50	-39.18	49.06	74.00	24.94	PK	Vertical
4	12038.100	42.71	39.24	8.01	-39.57	50.39	74.00	23.61	PK	Vertical
5	16162.300	41.67	37.84	8.98	-39.49	49.00	74.00	25.00	PK	Vertical
6	17977.900	38.95	42.29	10.66	-42.35	49.55	74.00	24.45	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5320MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

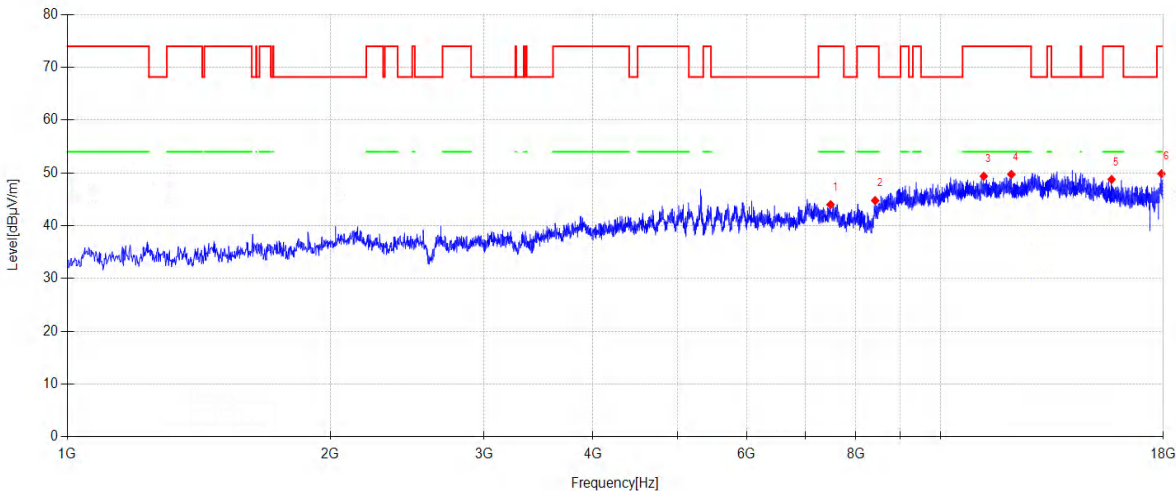
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7483.800	43.12	36.53	6.25	-41.91	43.99	74.00	30.01	PK	Horizontal
2	8418.800	41.84	37.50	6.77	-41.35	44.76	74.00	29.24	PK	Horizontal
3	11210.200	41.87	39.20	7.51	-39.19	49.39	74.00	24.61	PK	Horizontal
4	12055.100	42.05	39.26	8.01	-39.58	49.74	74.00	24.26	PK	Horizontal
5	15705.000	40.63	38.49	8.82	-39.18	48.76	74.00	25.24	PK	Horizontal
6	17913.300	39.53	41.97	10.57	-42.21	49.86	74.00	24.14	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5320MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

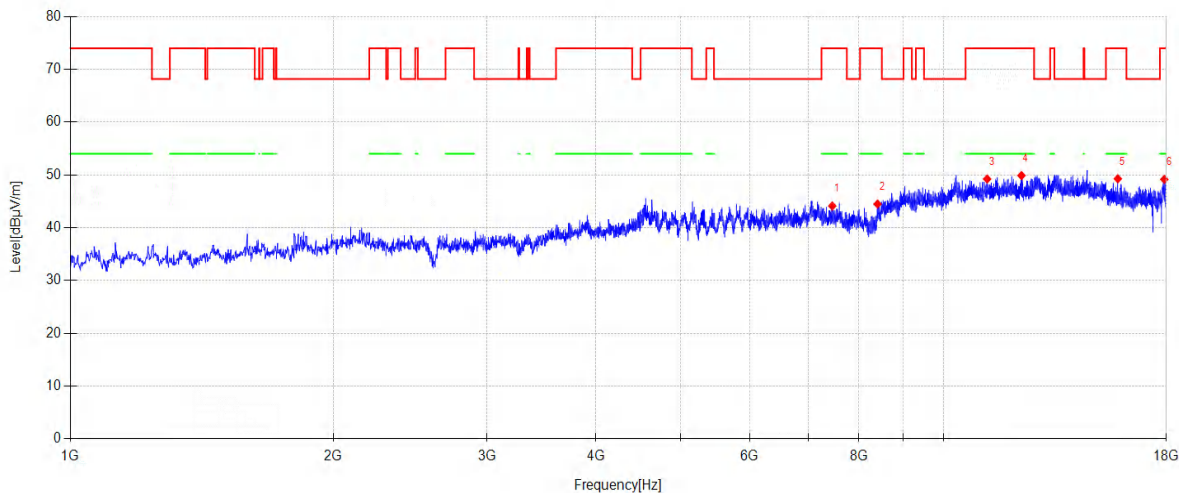
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7458.300	43.16	36.58	6.23	-41.85	44.12	74.00	29.88	PK	Vertical
2	8405.200	41.65	37.50	6.76	-41.41	44.50	74.00	29.50	PK	Vertical
3	11220.400	41.71	39.20	7.51	-39.19	49.23	74.00	24.77	PK	Vertical
4	12282.900	42.15	39.30	8.11	-39.67	49.89	74.00	24.11	PK	Vertical
5	15837.600	41.46	38.22	8.86	-39.26	49.28	74.00	24.72	PK	Vertical
6	17903.100	38.87	41.92	10.56	-42.18	49.17	74.00	24.83	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5500MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

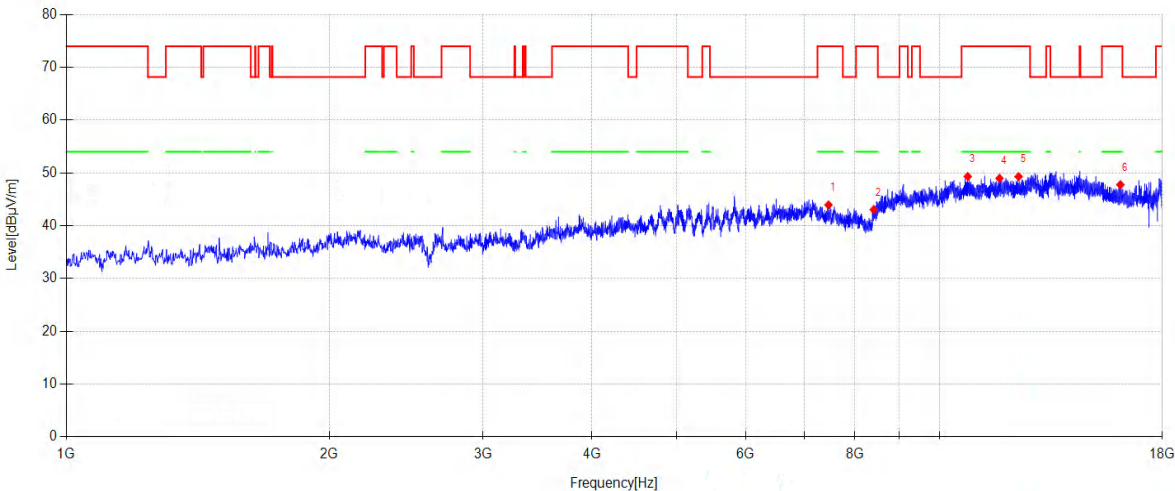
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7463.400	43.00	36.57	6.24	-41.86	43.95	74.00	30.05	PK	Horizontal
2	8408.600	40.19	37.50	6.76	-41.40	43.05	74.00	30.95	PK	Horizontal
3	10773.300	41.63	39.40	7.31	-39.01	49.33	74.00	24.67	PK	Horizontal
4	11716.800	41.63	38.98	7.82	-39.43	49.00	74.00	25.00	PK	Horizontal
5	12320.300	41.57	39.30	8.12	-39.68	49.31	74.00	24.69	PK	Horizontal
6	16113.000	40.37	37.89	8.96	-39.45	47.77	74.00	26.23	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5500MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

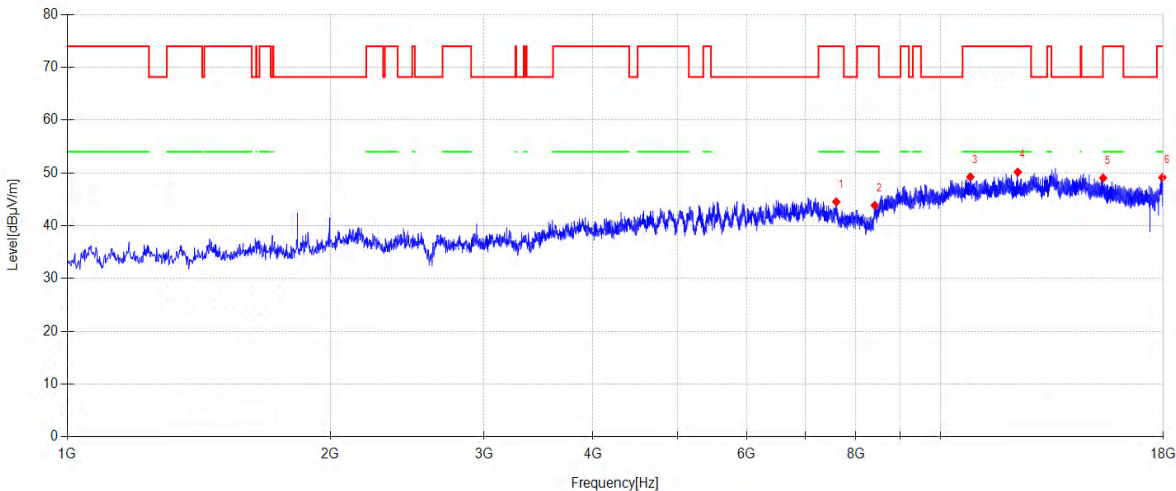
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7597.700	43.88	36.50	6.33	-42.19	44.52	74.00	29.48	PK	Vertical
2	8410.300	40.98	37.50	6.76	-41.39	43.85	74.00	30.15	PK	Vertical
3	10819.200	41.56	39.38	7.32	-39.02	49.24	74.00	24.76	PK	Vertical
4	12262.500	42.41	39.30	8.10	-39.66	50.15	74.00	23.85	PK	Vertical
5	15359.900	39.99	39.32	8.70	-38.98	49.03	74.00	24.97	PK	Vertical
6	17955.800	38.65	42.18	10.63	-42.30	49.16	74.00	24.84	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5580MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

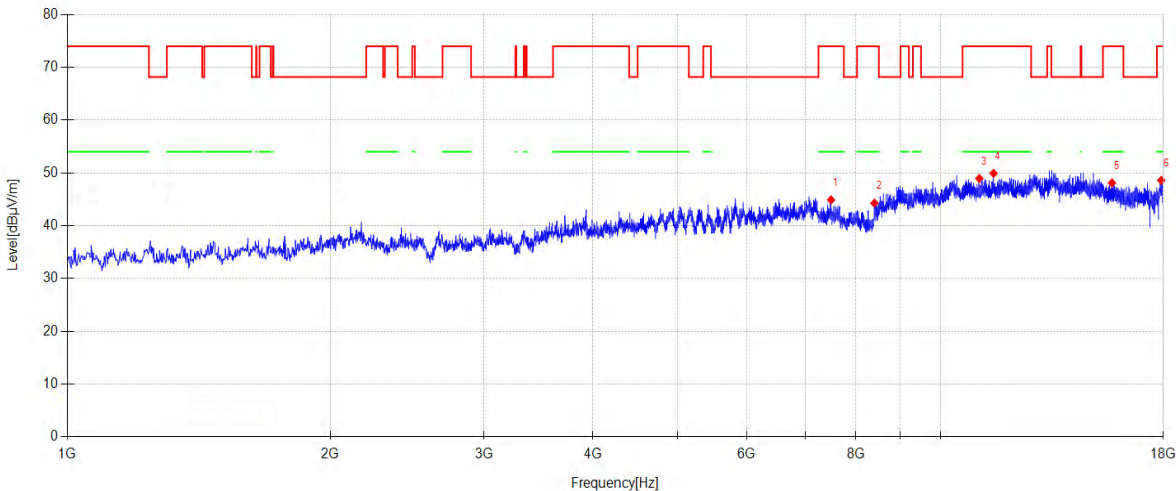
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7494.000	44.06	36.51	6.26	-41.94	44.89	74.00	29.11	PK	Horizontal
2	8401.800	41.45	37.50	6.76	-41.43	44.28	74.00	29.72	PK	Horizontal
3	11079.300	41.35	39.30	7.43	-39.13	48.95	74.00	25.05	PK	Horizontal
4	11502.600	42.39	39.19	7.69	-39.33	49.94	74.00	24.06	PK	Horizontal
5	15723.700	40.01	38.45	8.83	-39.19	48.10	74.00	25.90	PK	Horizontal
6	17901.400	38.32	41.91	10.55	-42.18	48.60	74.00	25.40	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5580MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

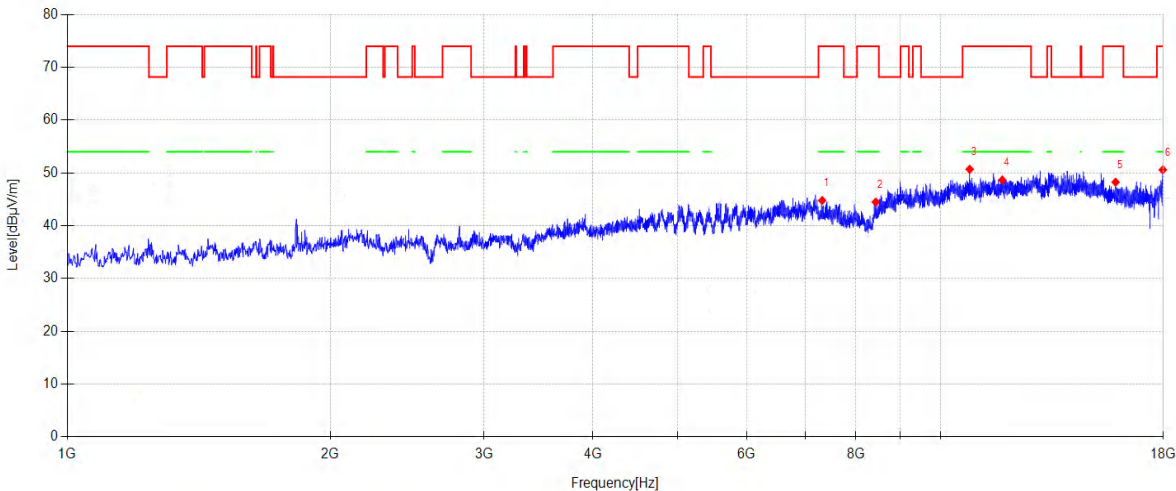
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	7320.600	43.29	36.86	6.14	-41.50	44.79	74.00	29.21	PK	Vertical
2	8432.400	41.51	37.50	6.77	-41.29	44.49	74.00	29.51	PK	Vertical
3	10800.500	43.00	39.40	7.32	-39.02	50.70	74.00	23.30	PK	Vertical
4	11771.200	41.34	38.93	7.85	-39.45	48.67	74.00	25.33	PK	Vertical
5	15868.200	40.50	38.16	8.88	-39.28	48.26	74.00	25.74	PK	Vertical
6	17976.200	40.00	42.28	10.66	-42.35	50.59	74.00	23.41	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5700MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

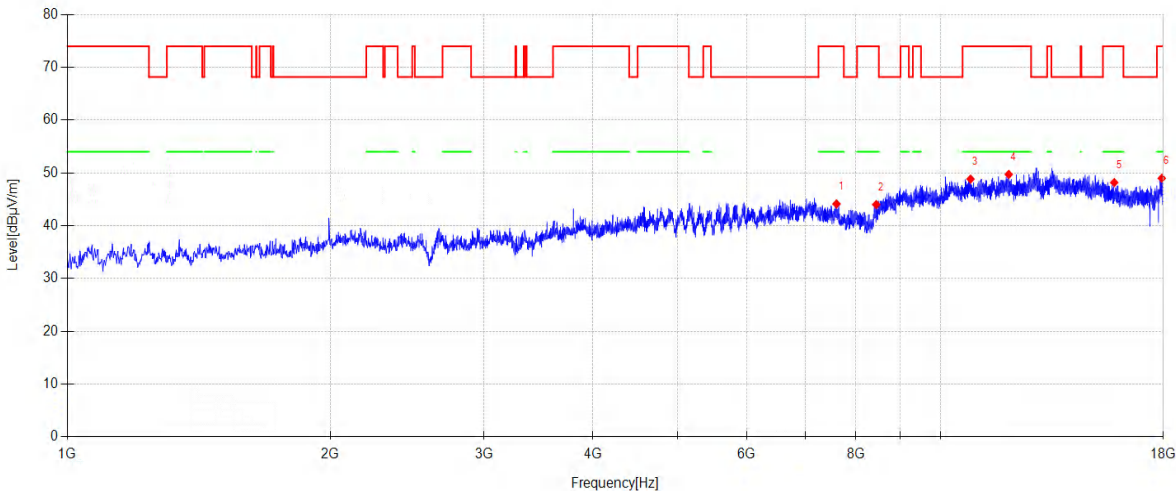
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7601.100	43.51	36.50	6.33	-42.20	44.14	74.00	29.86	PK	Vertical
2	8442.600	40.98	37.50	6.78	-41.25	44.01	74.00	29.99	PK	Vertical
3	10826.000	41.18	39.37	7.32	-39.03	48.84	74.00	25.16	PK	Vertical
4	11973.500	42.18	39.12	7.97	-39.55	49.72	74.00	24.28	PK	Vertical
5	15813.800	40.30	38.27	8.86	-39.25	48.18	74.00	25.82	PK	Vertical
6	17925.200	38.61	42.03	10.59	-42.23	49.00	74.00	25.00	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5700MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

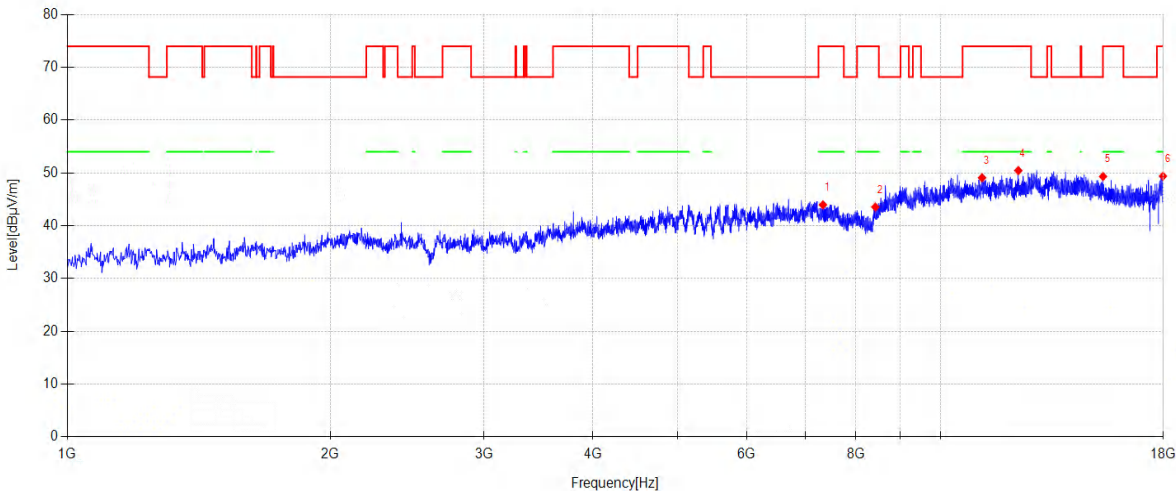
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7334.200	42.52	36.83	6.15	-41.54	43.96	74.00	30.04	PK	Horizontal
2	8422.200	40.62	37.50	6.77	-41.34	43.55	74.00	30.45	PK	Horizontal
3	11159.200	41.53	39.24	7.48	-39.16	49.09	74.00	24.91	PK	Horizontal
4	12277.800	42.72	39.30	8.10	-39.67	50.45	74.00	23.55	PK	Horizontal
5	15354.800	40.24	39.36	8.70	-38.97	49.33	74.00	24.67	PK	Horizontal
6	17981.300	38.79	42.31	10.66	-42.36	49.40	74.00	24.60	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5720MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

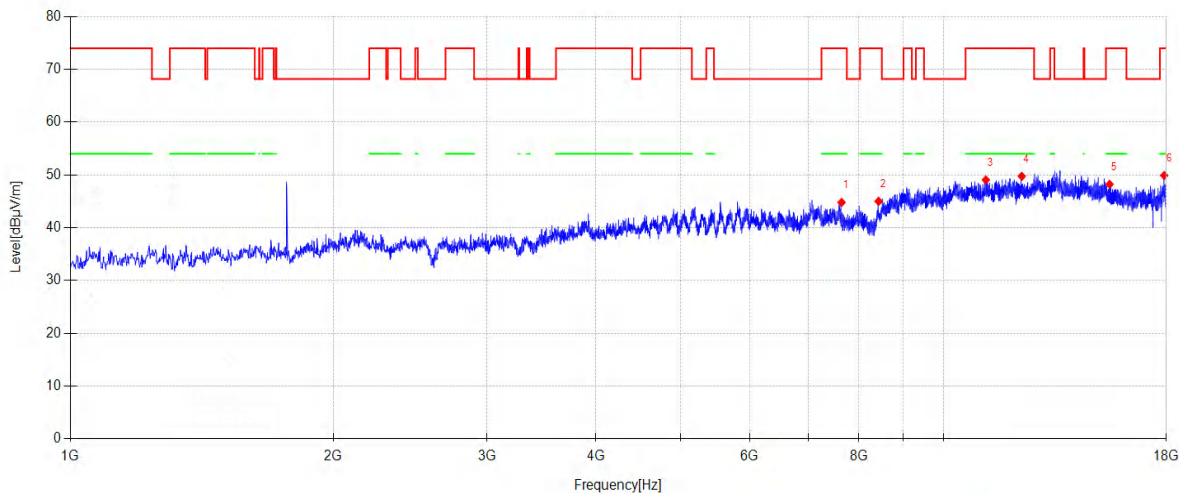
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7643.600	44.16	36.59	6.36	-42.31	44.80	74.00	29.20	PK	Horizontal
2	8429.000	42.04	37.50	6.77	-41.31	45.00	74.00	29.00	PK	Horizontal
3	11183.000	41.54	39.22	7.49	-39.18	49.07	74.00	24.93	PK	Horizontal
4	12294.800	42.01	39.30	8.11	-39.67	49.75	74.00	24.25	PK	Horizontal
5	15495.900	39.73	38.81	8.75	-39.06	48.23	74.00	25.77	PK	Horizontal
6	17899.700	39.64	41.90	10.55	-42.18	49.91	74.00	24.09	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5720MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

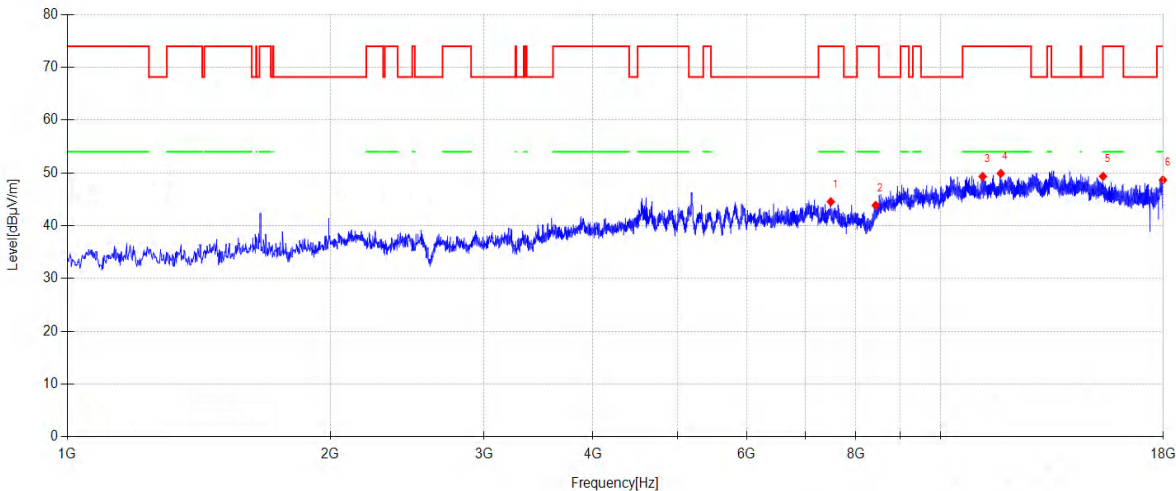
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d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G-5GWIFI\6

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7488.900	43.69	36.52	6.25	-41.92	44.54	74.00	29.46	PK	Vertical
2	8432.400	40.87	37.50	6.77	-41.29	43.85	74.00	30.15	PK	Vertical
3	11177.900	41.78	39.22	7.49	-39.17	49.32	74.00	24.68	PK	Vertical
4	11725.300	42.56	38.97	7.82	-39.43	49.92	74.00	24.08	PK	Vertical
5	15356.500	40.28	39.35	8.70	-38.97	49.36	74.00	24.64	PK	Vertical
6	17979.600	38.05	42.30	10.66	-42.35	48.66	74.00	25.34	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5745MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

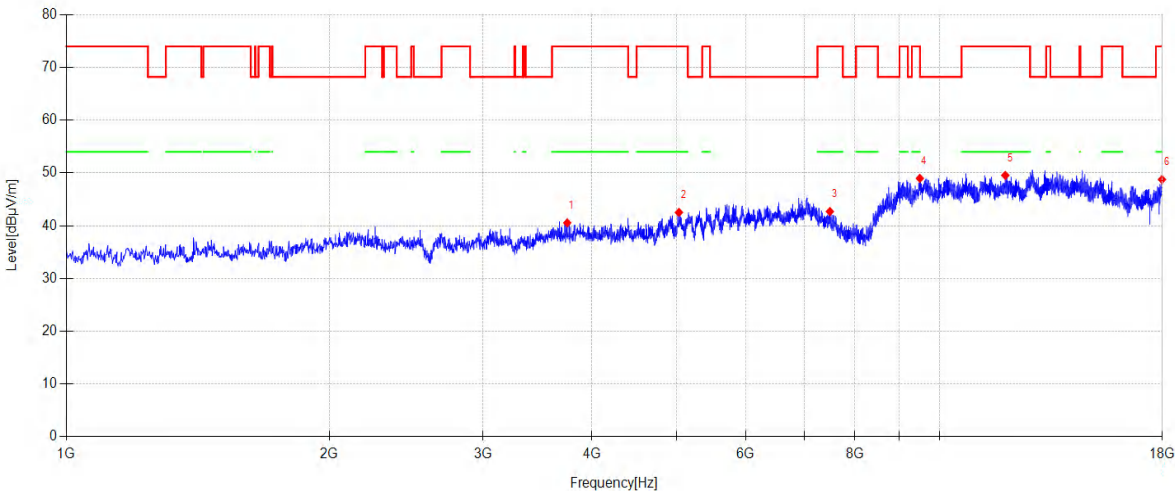
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3747.200	45.98	30.49	4.37	-40.30	40.54	74.00	33.46	PK	Horizontal
2	5030.700	44.14	33.26	5.20	-40.08	42.52	74.00	31.48	PK	Horizontal
3	7490.600	41.85	36.52	6.25	-41.93	42.69	74.00	31.31	PK	Horizontal
4	9496.600	42.01	38.70	7.03	-38.76	48.98	74.00	25.02	PK	Horizontal
5	11897.000	42.22	38.90	7.93	-39.51	49.54	74.00	24.46	PK	Horizontal
6	17981.300	38.15	42.31	10.66	-42.36	48.76	74.00	25.24	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5745MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

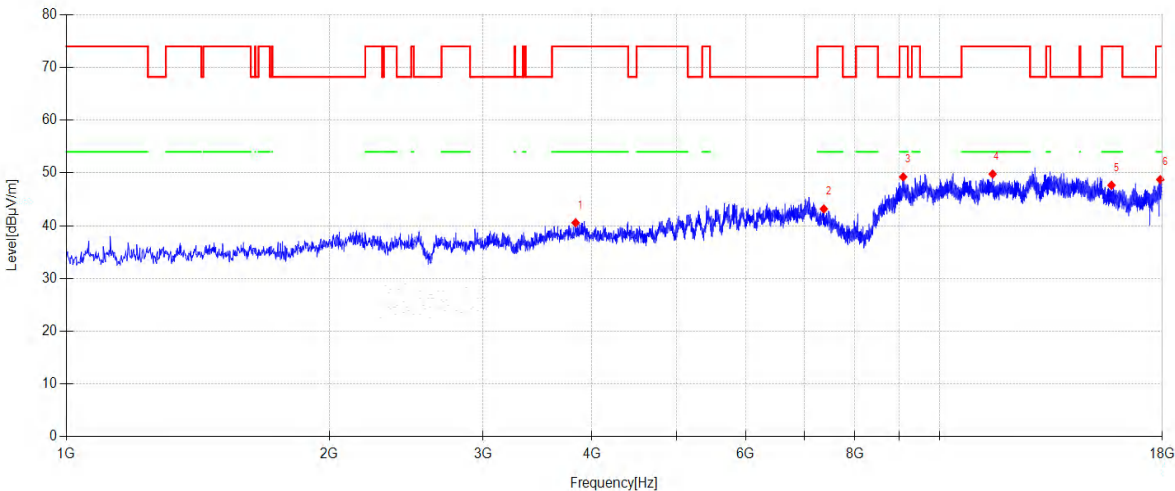
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3830.500	45.66	30.82	4.42	-40.35	40.55	74.00	33.45	PK	Vertical
2	7371.600	41.88	36.76	6.17	-41.63	43.18	74.00	30.82	PK	Vertical
3	9086.900	42.55	38.47	7.01	-38.78	49.25	74.00	24.75	PK	Vertical
4	11506.000	42.25	39.19	7.69	-39.33	49.80	74.00	24.20	PK	Vertical
5	15742.400	39.63	38.42	8.83	-39.21	47.67	74.00	26.33	PK	Vertical
6	17899.700	38.48	41.90	10.55	-42.18	48.75	74.00	25.25	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5785MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

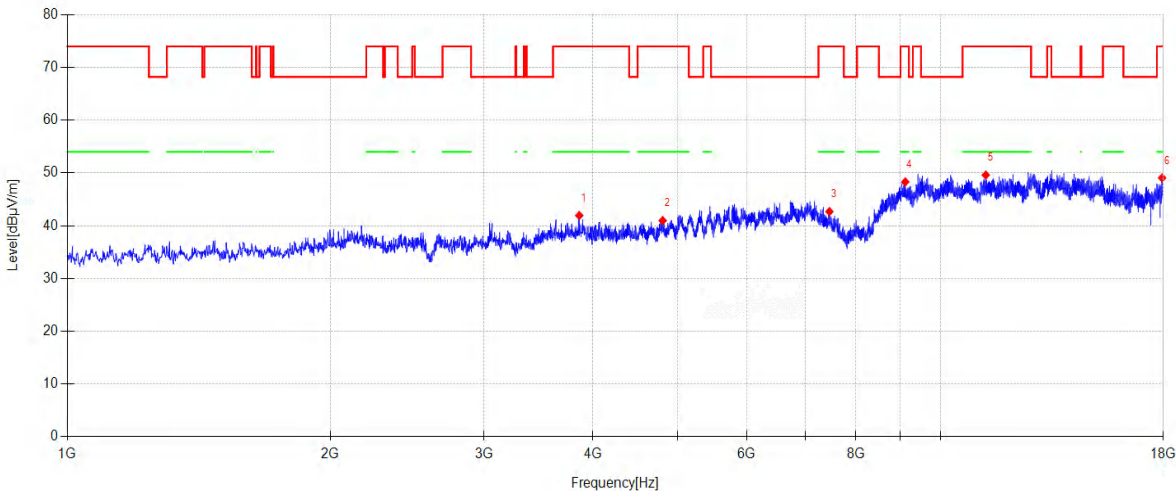
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3857.700	46.92	30.95	4.43	-40.36	41.94	74.00	32.06	PK	Horizontal
2	4806.300	43.42	32.66	5.05	-40.15	40.98	74.00	33.02	PK	Horizontal
3	7461.700	41.72	36.58	6.23	-41.85	42.68	74.00	31.32	PK	Horizontal
4	9114.100	41.57	38.50	7.01	-38.78	48.30	74.00	25.70	PK	Horizontal
5	11269.700	42.09	39.20	7.54	-39.22	49.61	74.00	24.39	PK	Horizontal
6	17942.200	38.62	42.11	10.61	-42.27	49.07	74.00	24.93	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5785MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

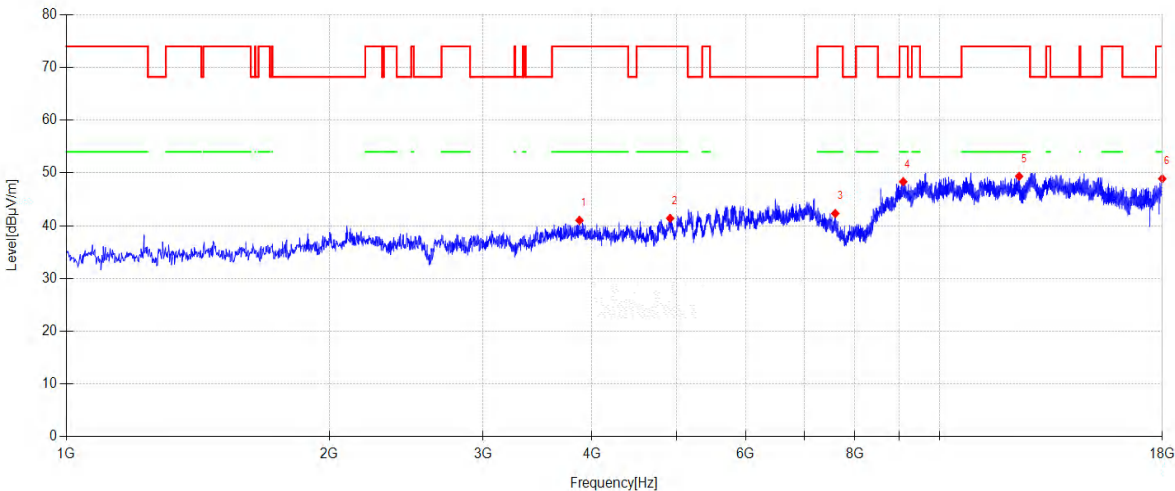
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d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G 5.8G\4

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3869.600	45.93	31.02	4.44	-40.37	41.02	74.00	32.98	PK	Vertical
2	4915.100	43.36	33.03	5.12	-40.11	41.40	74.00	32.60	PK	Vertical
3	7597.700	41.68	36.50	6.33	-42.19	42.32	74.00	31.68	PK	Vertical
4	9088.600	41.63	38.48	7.01	-38.78	48.34	74.00	25.66	PK	Vertical
5	12339.000	41.63	39.30	8.13	-39.69	49.37	74.00	24.63	PK	Vertical
6	17996.600	38.23	42.38	10.69	-42.39	48.91	74.00	25.09	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5825MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

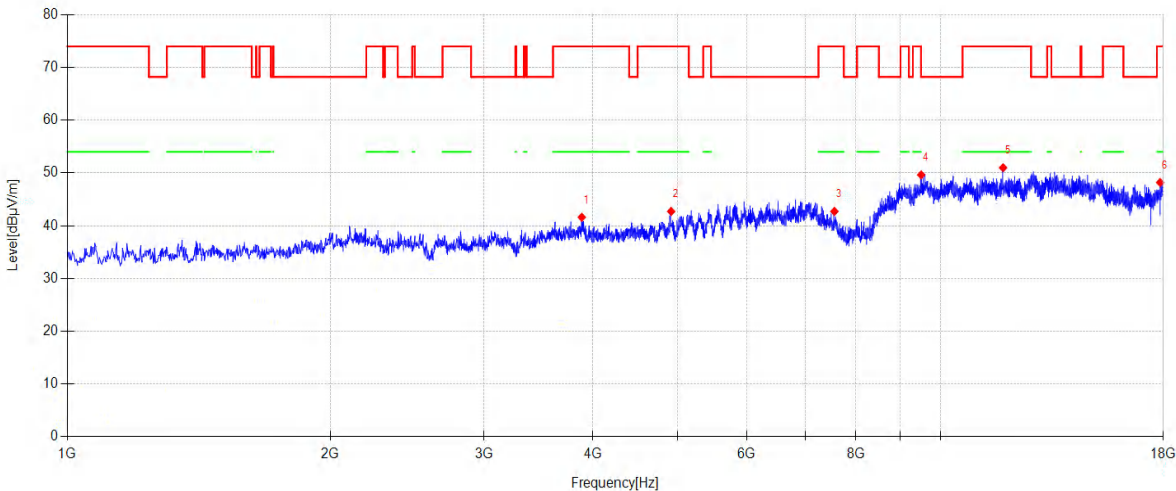
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3883.200	46.43	31.10	4.45	-40.38	41.60	74.00	32.40	PK	Horizontal
2	4915.100	44.67	33.03	5.12	-40.11	42.71	74.00	31.29	PK	Horizontal
3	7560.300	42.10	36.42	6.30	-42.10	42.72	74.00	31.28	PK	Horizontal
4	9505.100	42.67	38.69	7.03	-38.75	49.64	68.20	18.56	PK	Horizontal
5	11796.700	43.67	38.90	7.87	-39.46	50.98	74.00	23.02	PK	Horizontal
6	17850.400	38.44	41.35	10.48	-42.07	48.20	74.00	25.80	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5825MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

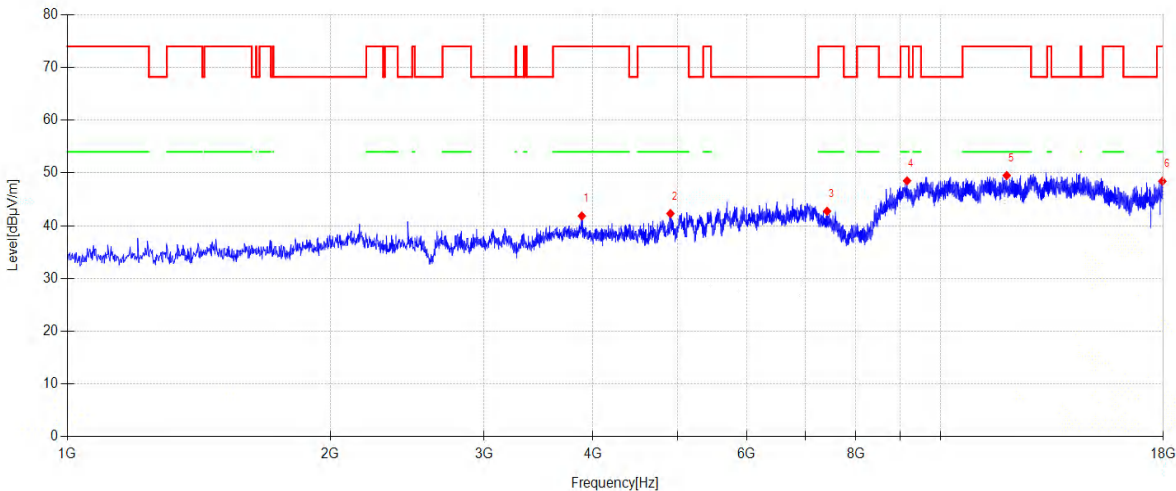
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d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G 5.8G\6

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3883.200	46.68	31.10	4.45	-40.38	41.85	74.00	32.15	PK	Vertical
2	4906.600	44.29	33.01	5.12	-40.11	42.31	74.00	31.69	PK	Vertical
3	7415.800	41.62	36.67	6.20	-41.74	42.75	74.00	31.25	PK	Vertical
4	9156.600	41.77	38.51	7.01	-38.78	48.51	74.00	25.49	PK	Vertical
5	11908.900	42.18	38.93	7.93	-39.52	49.52	74.00	24.48	PK	Vertical
6	17955.800	37.92	42.18	10.63	-42.30	48.43	74.00	25.57	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

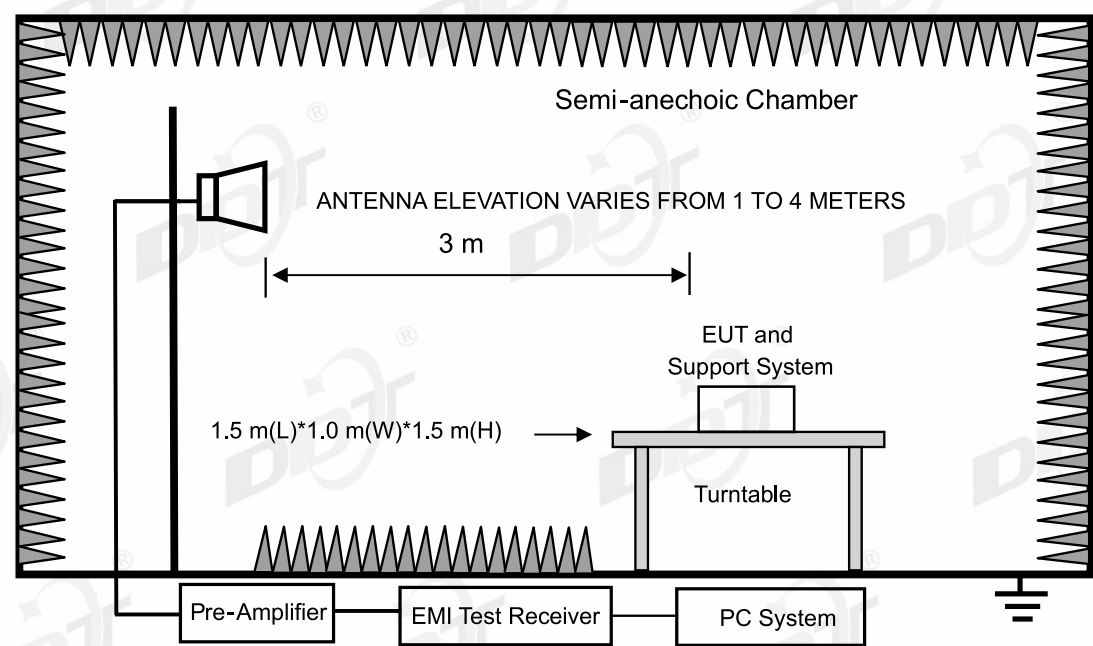
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

14. Band Edge Compliance

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31	1 Year
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22	1 Year
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	/
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11	2 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/07/08	1 Year
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22	1 Year
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2025/09/18	2 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11	2 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31	1 Year
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31	1 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31	1 Year

14.2. Block diagram of test setup



14.3. Limits

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725-5.850 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. Test procedure

Same with Emissions in Restricted Frequency Bands except change investigated frequency range from 5.15-5.25 GHz, 5250-5350 GHz, 5470-5725 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5180MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

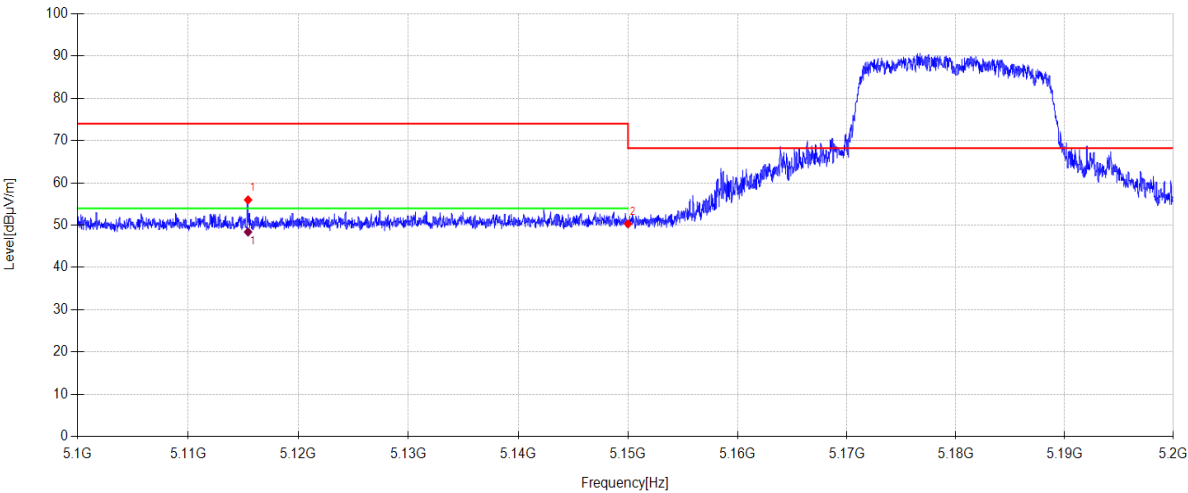
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5115.450	47.37	33.40	5.26	-30.06	55.97	74.00	18.03	PK	Horizontal
2	5150.000	41.71	33.40	5.28	-30.06	50.33	68.20	17.87	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5115.450	39.78	33.40	5.26	-30.06	48.38	54.0	5.62	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5180MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

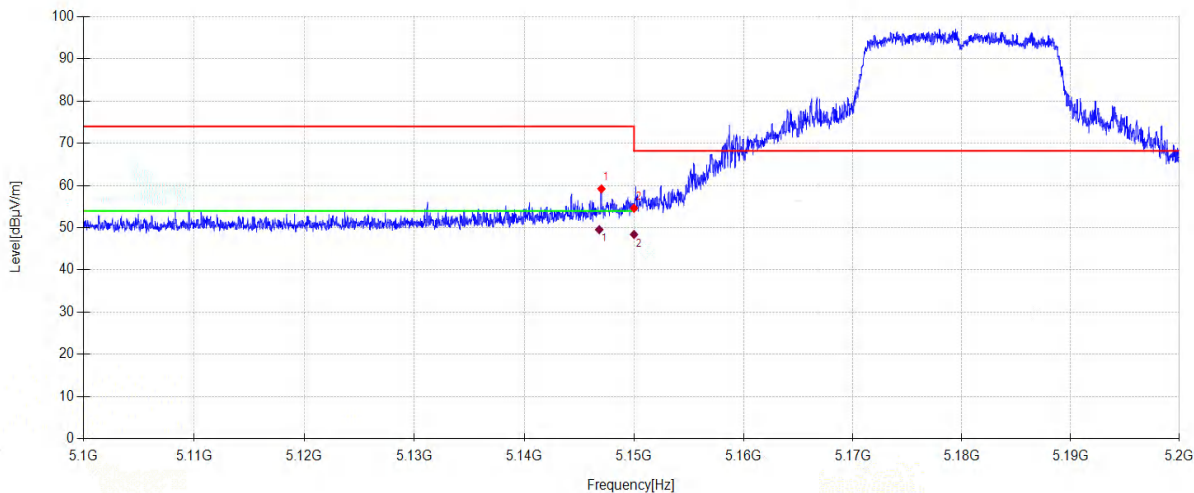
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5147.030	50.58	33.40	5.28	-30.06	59.20	74.00	14.80	PK	Vertical
2	5150.000	46.00	33.40	5.28	-30.06	54.62	68.20	13.58	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5146.829	40.92	33.40	5.28	-30.06	49.54	54.0	4.46	AV	Vertical
2	5150.000	39.78	33.40	5.28	-30.06	48.40	54.0	5.60	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5240MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

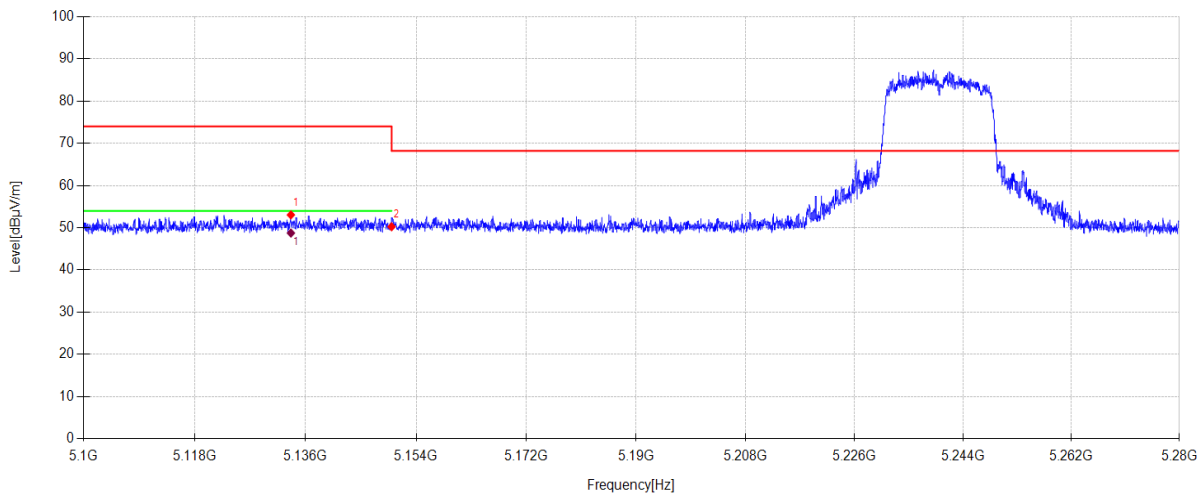
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5133.606	44.43	33.40	5.27	-30.06	53.04	74.00	20.96	PK	Horizontal
2	5150.000	41.62	33.40	5.28	-30.06	50.24	68.20	17.96	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5133.606	40.13	33.40	5.27	-30.06	48.74	54.0	5.26	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5240MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

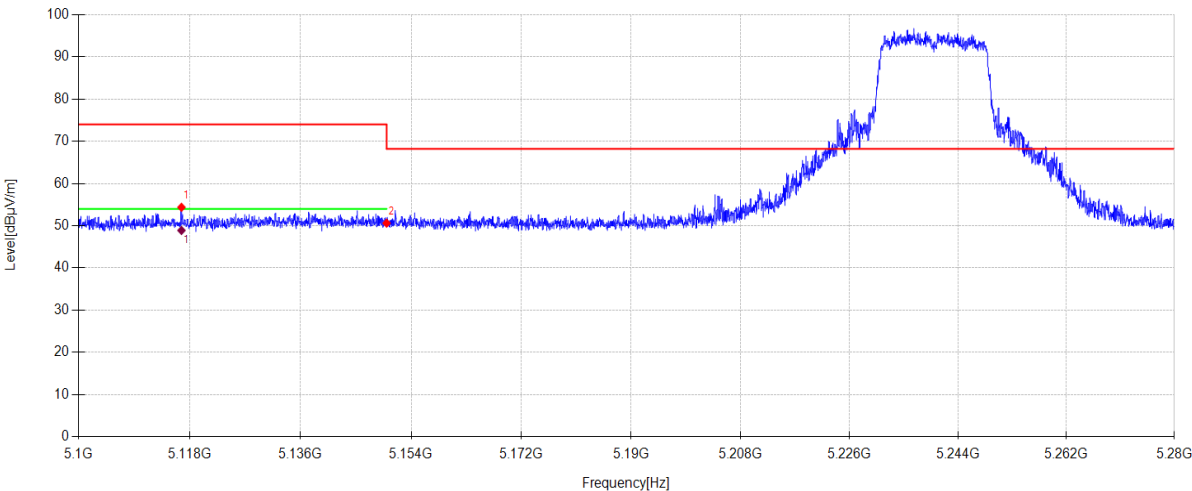
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5116.668	45.77	33.40	5.26	-30.06	54.37	74.00	19.63	PK	Vertical
2	5150.000	41.99	33.40	5.28	-30.06	50.61	68.20	17.59	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5116.668	40.28	33.40	5.26	-30.06	48.88	54.0	5.12	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5260MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

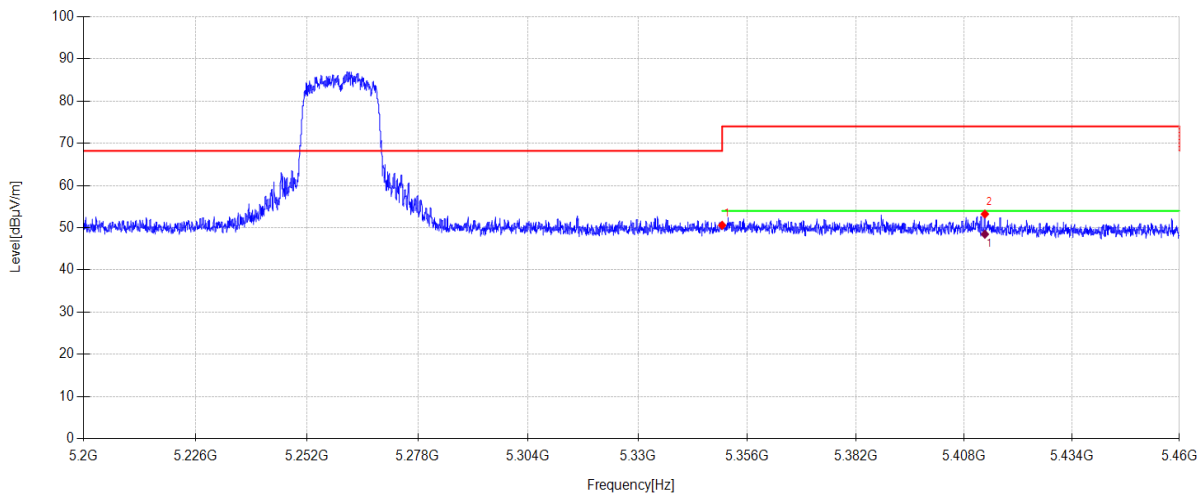
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	42.10	33.10	5.41	-30.03	50.58	74.00	23.42	PK	Horizontal
2	5412.940	44.74	33.07	5.45	-30.03	53.23	74.00	20.77	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5412.940	39.97	33.07	5.45	-30.03	48.46	54.0	5.54	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5260MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

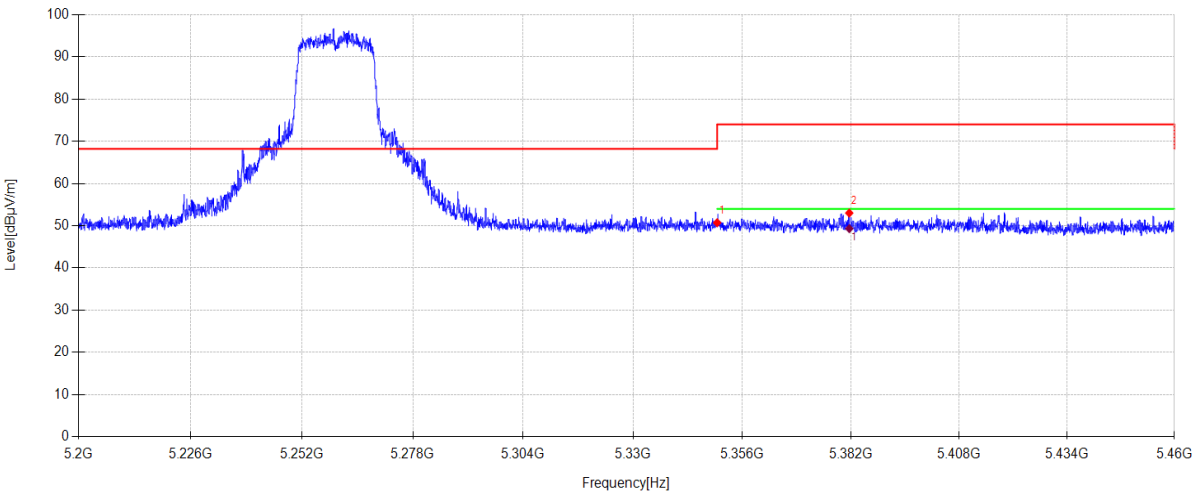
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	42.24	33.10	5.41	-30.03	50.72	74.00	23.28	PK	Vertical
2	5381.558	44.51	33.10	5.43	-30.03	53.01	74.00	20.99	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5381.558	40.82	33.10	5.43	-30.03	49.32	54.0	4.68	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5320MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

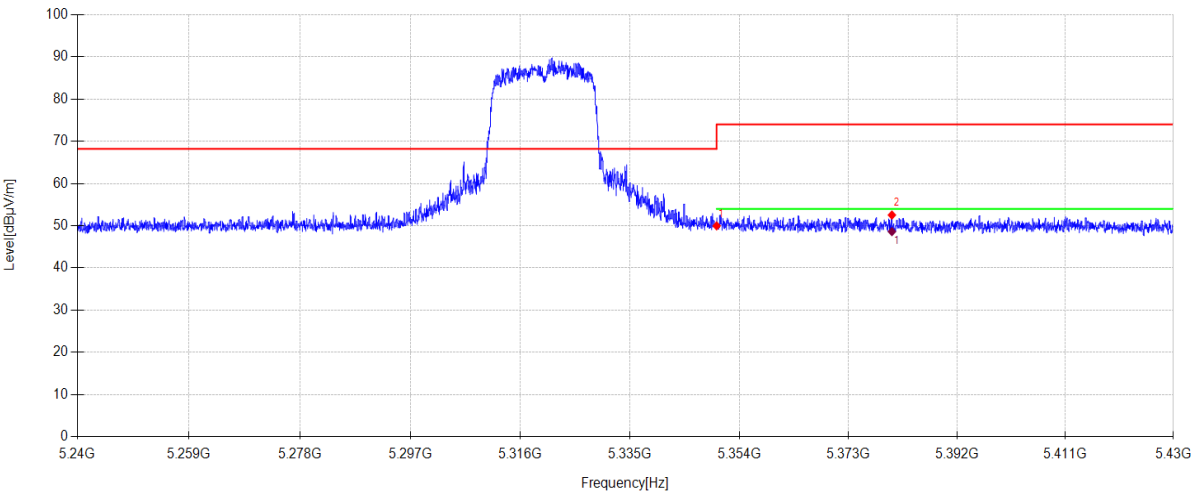
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	41.48	33.10	5.41	-30.03	49.96	74.00	24.04	PK	Horizontal
2	5380.562	44.04	33.10	5.43	-30.03	52.54	74.00	21.46	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5380.562	40.11	33.10	5.43	-30.03	48.61	54.0	5.39	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5320MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

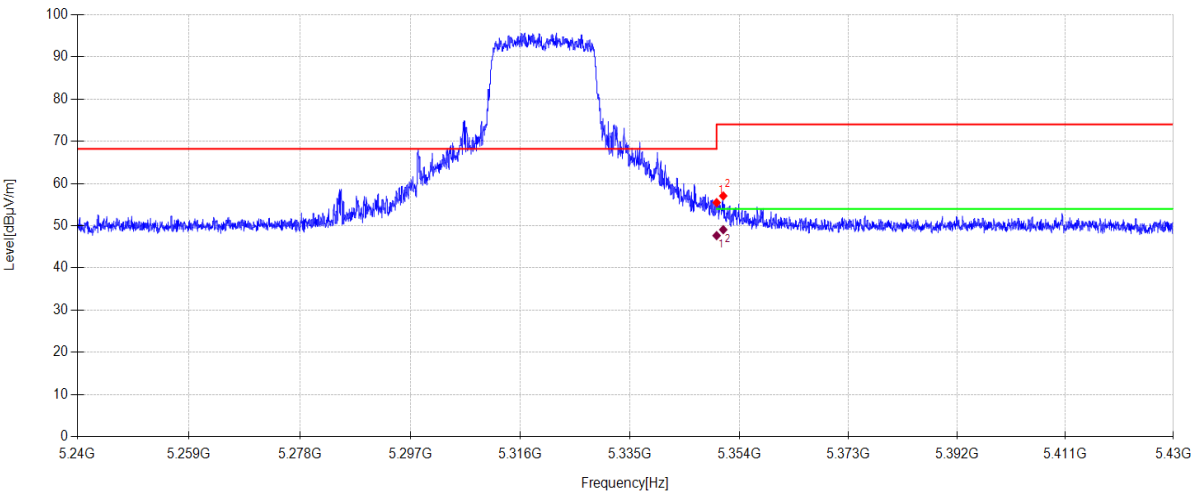
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	47.01	33.10	5.41	-30.03	55.49	74.00	18.51	PK	Vertical
2	5351.150	48.58	33.10	5.41	-30.03	57.06	74.00	16.94	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5350.000	39.18	33.10	5.41	-30.03	47.66	54.0	6.34	AV	Vertical
2	5351.150	40.59	33.10	5.41	-30.03	49.07	54.0	4.93	AV	Vertical

- Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5500MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

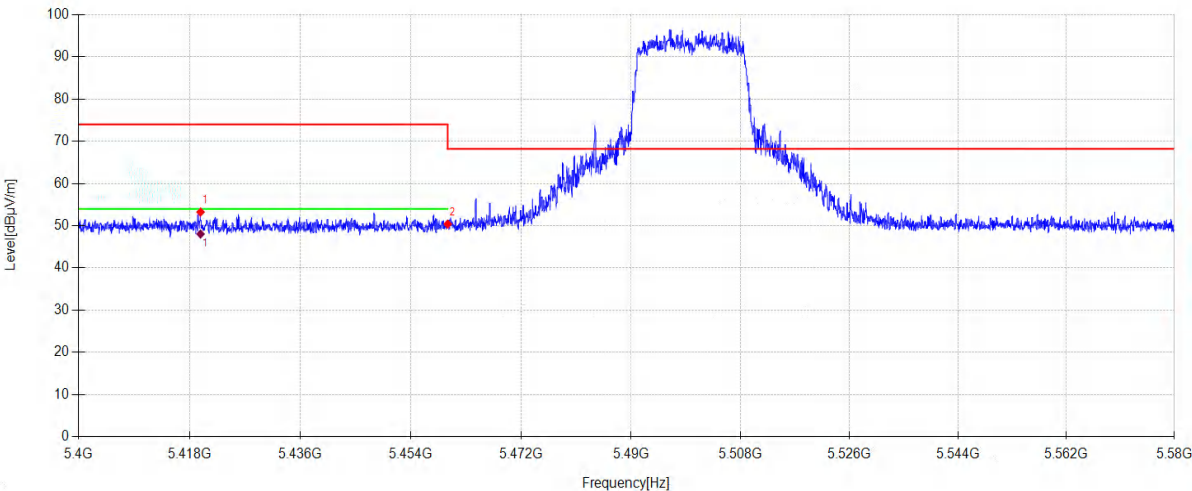
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5419.782	44.75	33.06	5.46	-30.03	53.24	74.00	20.76	PK	Horizontal
2	5460.000	41.93	33.00	5.48	-30.02	50.39	68.20	17.81	PK	Horizontal

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5419.782	39.55	33.06	5.46	-30.03	48.04	54.0	5.96	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5500MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

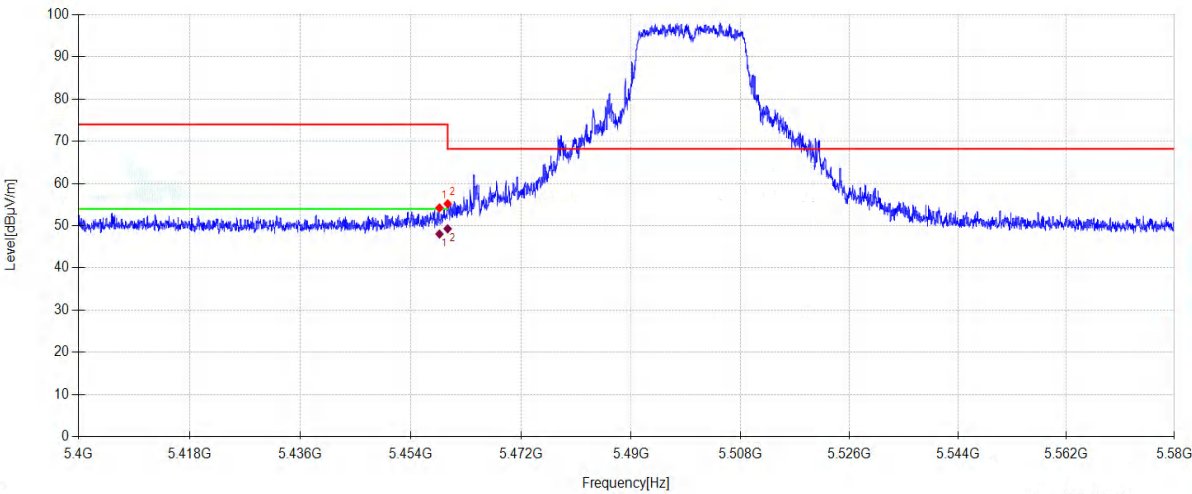
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5458.662	45.77	33.00	5.48	-30.02	54.23	74.00	19.77	PK	Vertical
2	5460.000	46.73	33.00	5.48	-30.02	55.19	68.20	13.01	PK	Vertical

Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5458.662	39.57	33.00	5.48	-30.02	48.03	54.0	5.97	AV	Vertical
2	5460.000	40.82	33.00	5.48	-30.02	49.28	54.0	4.72	AV	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5700MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

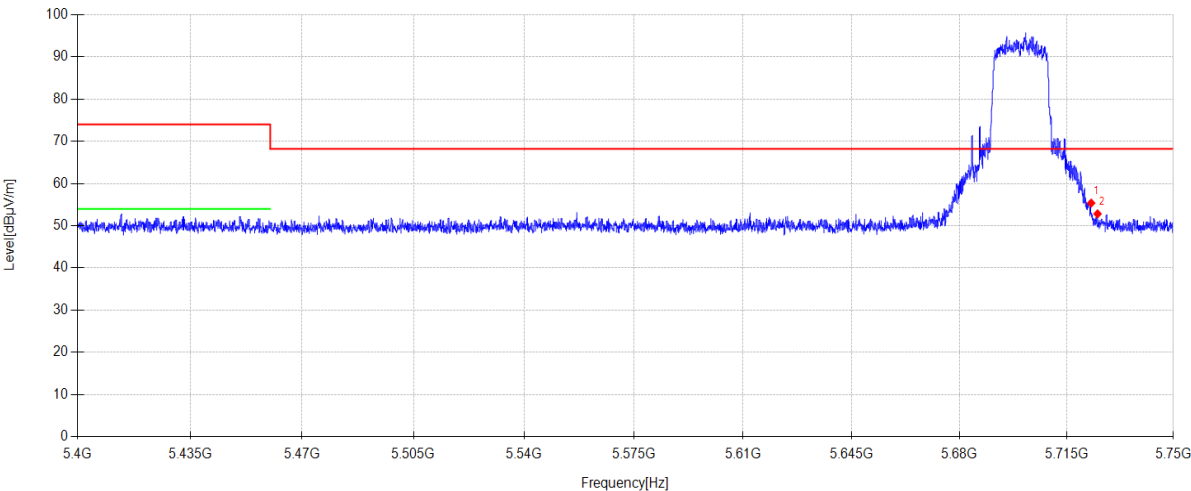
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.000	45.95	33.74	5.66	-29.99	55.36	68.20	12.84	PK	Horizontal
2	5725.080	43.39	33.75	5.66	-29.99	52.81	68.20	15.39	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-07-31

Tested By:

Gen Liu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5700MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

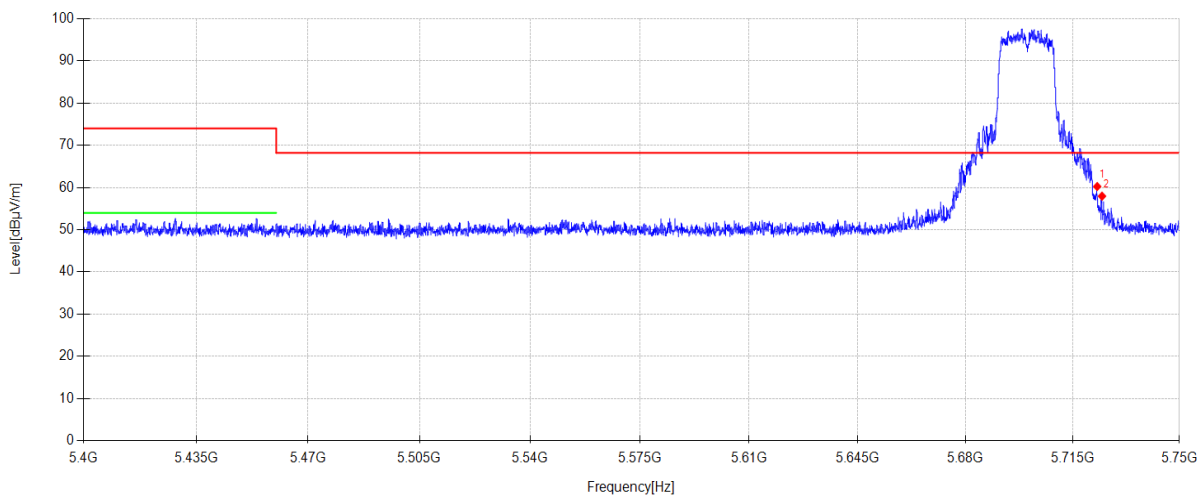
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.000	50.83	33.74	5.66	-29.99	60.24	68.20	7.96	PK	Vertical
2	5724.590	48.53	33.75	5.66	-29.99	57.95	68.20	10.25	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-21

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5720MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

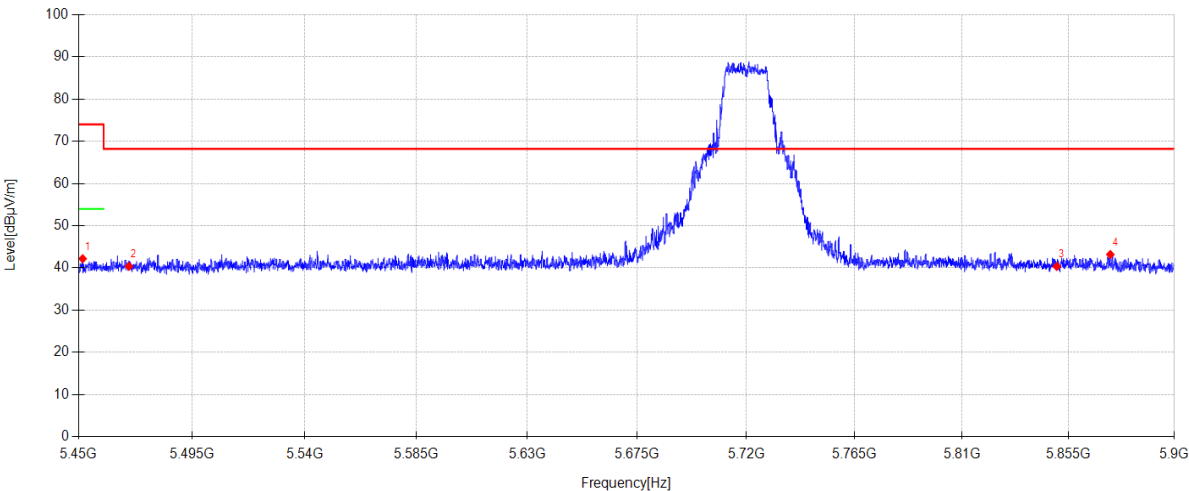
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5451.710	43.72	33.00	5.48	-40.02	42.18	74.00	31.82	PK	Horizontal
2	5470.000	41.91	33.00	5.49	-40.02	40.38	68.20	27.82	PK	Horizontal
3	5850.000	40.59	34.00	5.74	-39.97	40.36	68.20	27.84	PK	Horizontal
4	5872.730	43.35	34.05	5.76	-39.97	43.19	68.20	25.01	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-21

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5720MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

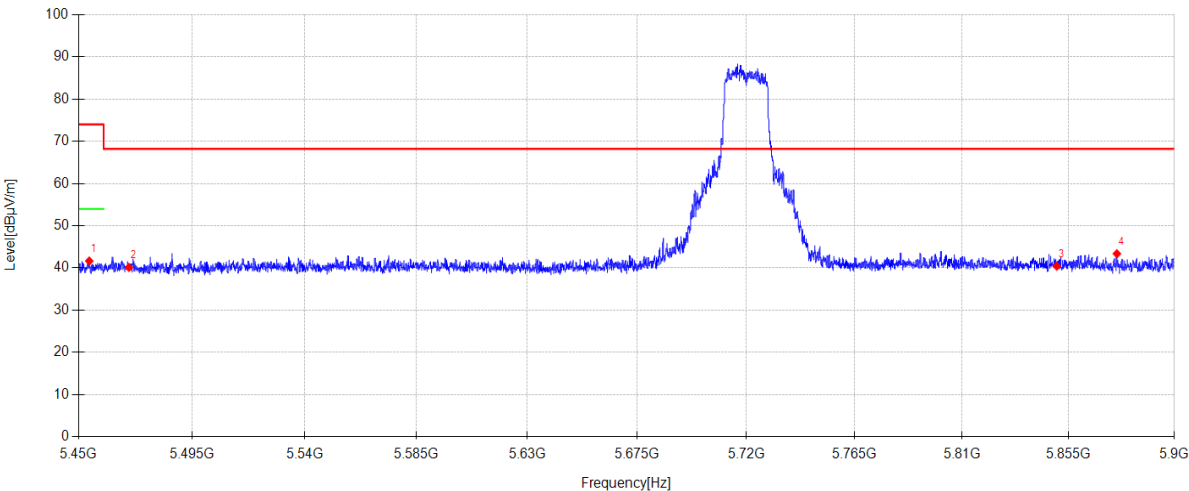
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5454.320	43.18	33.00	5.48	-40.02	41.64	74.00	32.36	PK	Vertical
2	5470.000	41.65	33.00	5.49	-40.02	40.12	68.20	28.08	PK	Vertical
3	5850.000	40.64	34.00	5.74	-39.97	40.41	68.20	27.79	PK	Vertical
4	5875.520	43.53	34.05	5.76	-39.97	43.37	68.20	24.83	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5745MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

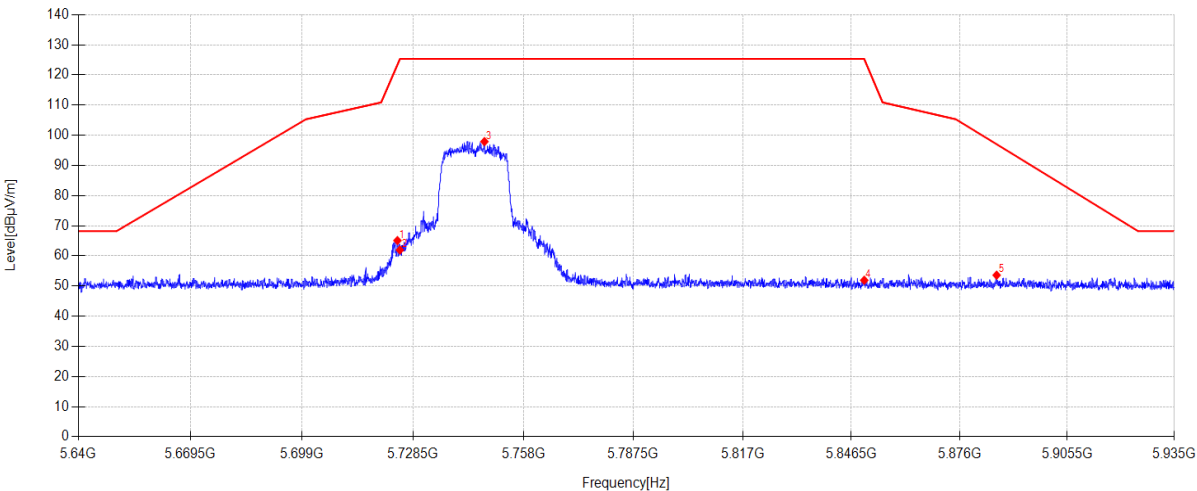
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5724.341	55.45	33.75	5.87	-29.99	65.08	123.40	58.32	PK	Horizontal
2	5725.000	52.33	33.75	5.87	-29.99	61.96	125.30	63.34	PK	Horizontal
3	5747.557	88.11	33.89	5.88	-29.98	97.90	125.30	27.40	PK	Horizontal
4	5850.000	41.95	34.00	5.94	-29.97	51.92	125.27	73.35	PK	Horizontal
5	5886.148	43.54	34.07	5.95	-29.96	53.60	97.03	43.43	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5745MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

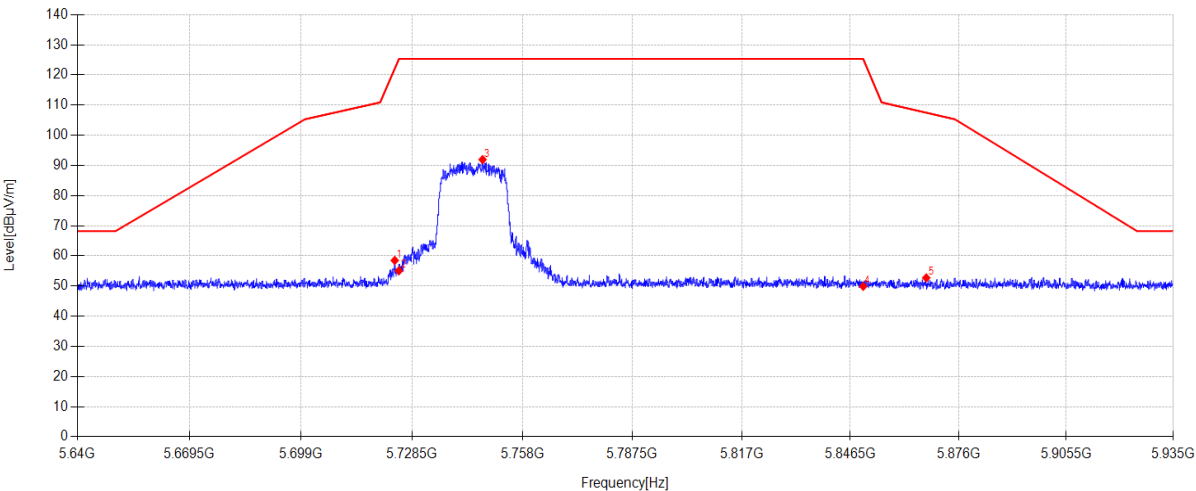
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.898	48.88	33.74	5.87	-29.99	58.50	122.13	63.63	PK	Vertical
2	5725.000	45.44	33.75	5.87	-29.99	55.07	125.30	70.23	PK	Vertical
3	5747.321	82.15	33.88	5.88	-29.98	91.93	125.30	33.37	PK	Vertical
4	5850.000	39.93	34.00	5.94	-29.97	49.90	125.27	75.37	PK	Vertical
5	5867.180	42.71	34.03	5.94	-29.97	52.71	107.49	54.78	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5785MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

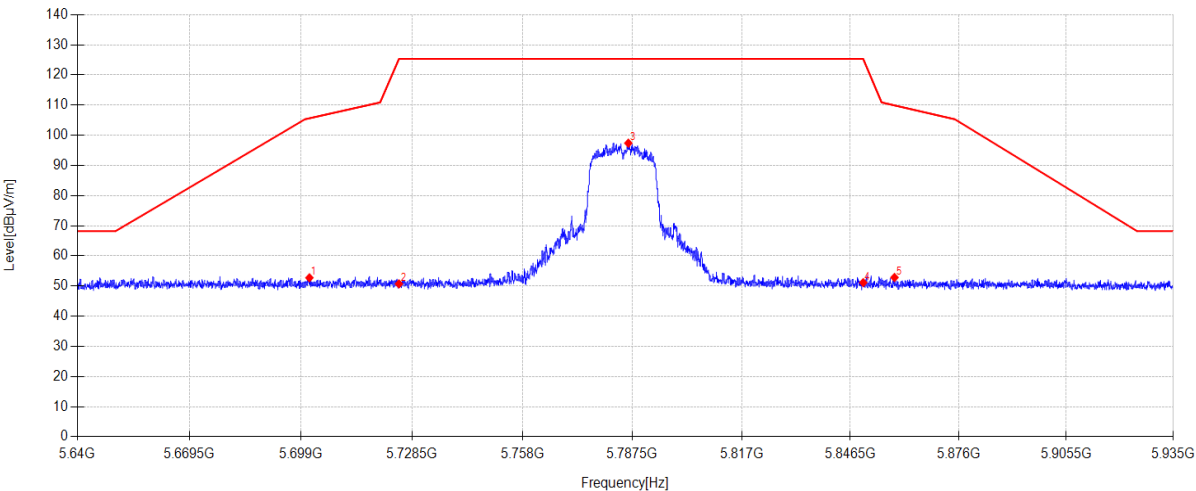
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Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5701.213	43.26	33.61	5.86	-29.99	52.74	105.64	52.90	PK	Horizontal
2	5725.000	41.09	33.75	5.87	-29.99	50.72	125.30	74.58	PK	Horizontal
3	5786.438	87.35	34.12	5.90	-29.98	97.39	125.30	27.91	PK	Horizontal
4	5850.000	41.16	34.00	5.94	-29.97	51.13	125.27	74.14	PK	Horizontal
5	5858.507	42.86	34.02	5.94	-29.97	52.85	109.92	57.07	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5785MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

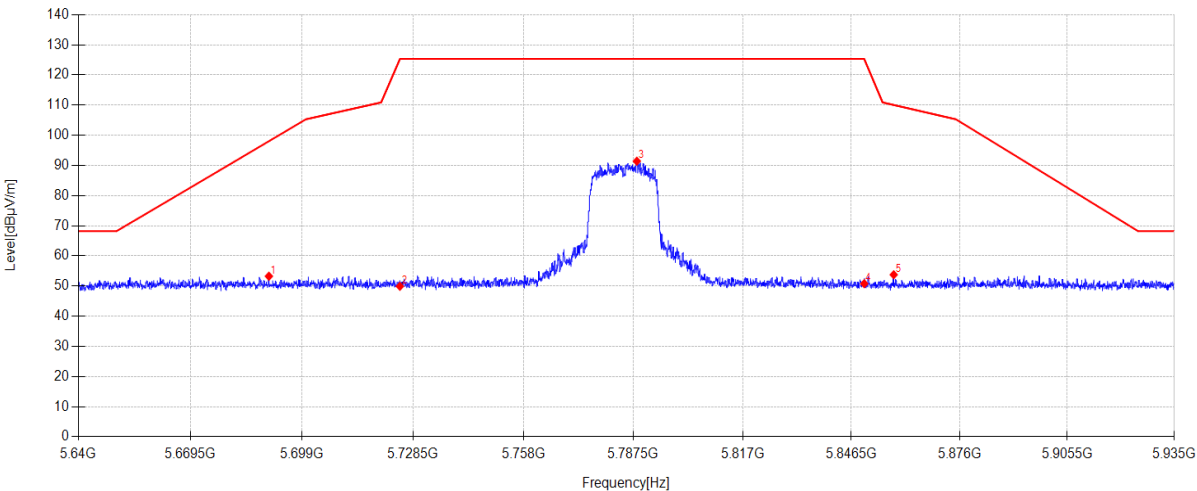
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d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G 5.8G\10

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5690.209	43.82	33.56	5.86	-29.99	53.25	98.04	44.79	PK	Vertical
2	5725.000	40.29	33.75	5.87	-29.99	49.92	125.30	75.38	PK	Vertical
3	5788.444	81.36	34.13	5.90	-29.98	91.41	125.30	33.89	PK	Vertical
4	5850.000	40.82	34.00	5.94	-29.97	50.79	125.27	74.48	PK	Vertical
5	5858.035	43.75	34.02	5.94	-29.97	53.74	110.05	56.31	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5825MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

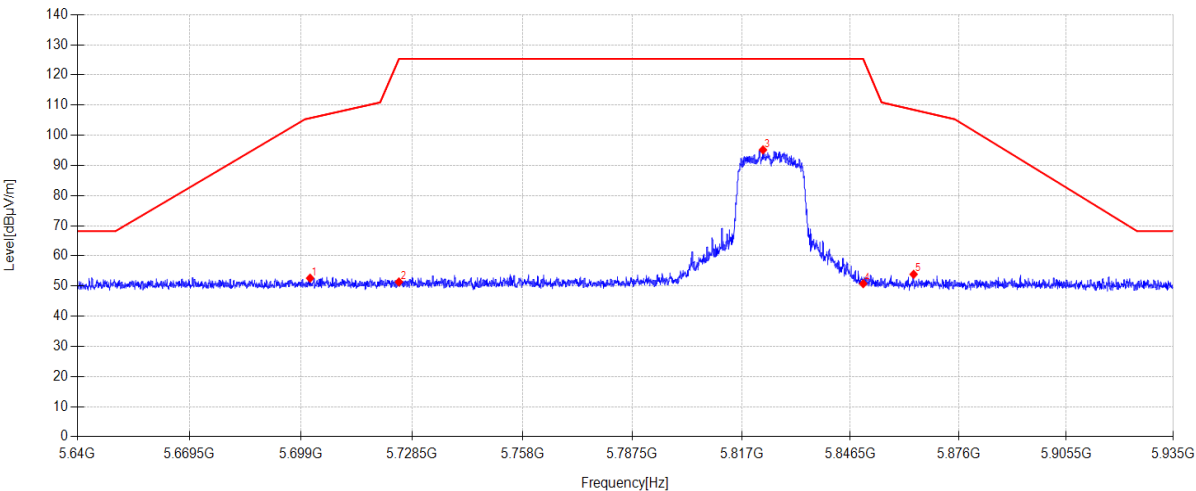
File Path:

d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G 5.8G\7

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5701.390	43.13	33.61	5.86	-29.99	52.61	105.69	53.08	PK	Horizontal
2	5725.000	41.72	33.75	5.87	-29.99	51.35	125.30	73.95	PK	Horizontal
3	5822.782	85.10	34.11	5.92	-29.97	95.16	125.30	30.14	PK	Horizontal
4	5850.000	40.81	34.00	5.94	-29.97	50.78	125.27	74.49	PK	Horizontal
5	5863.728	43.89	34.03	5.94	-29.97	53.89	108.46	54.57	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-16

Tested By:

Genliu

EUT:

Tabletop Wireless Speaker

Model Number:

EDF286006

Test Mode:

11N20 5825MHz TX mode

Power Supply:

AC 120V/60Hz

Condition:

Temp:23.2°C;Humi:62.7%

Test Site:

DDT 3# Chamber

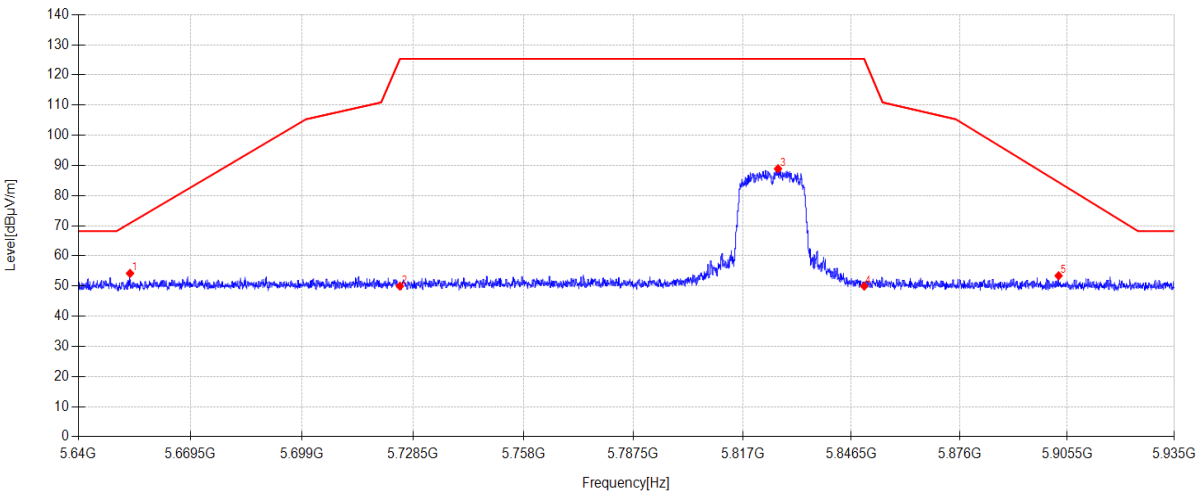
File Path:

d:\ts\2024 report data\Q24062510-1E\FCC ABOVE1G 5.8G\8

Memo:

Sample Number:S24062510-007 Power Setting:NA

Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5653.570	44.94	33.41	5.84	-30.00	54.19	70.85	16.66	PK	Vertical
2	5725.000	40.35	33.75	5.87	-29.99	49.98	125.30	75.32	PK	Vertical
3	5826.588	78.86	34.09	5.92	-29.97	88.90	125.30	36.40	PK	Vertical
4	5850.000	40.00	34.00	5.94	-29.97	49.97	125.27	75.30	PK	Vertical
5	5903.140	43.31	34.11	5.96	-29.96	53.42	84.42	31.00	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

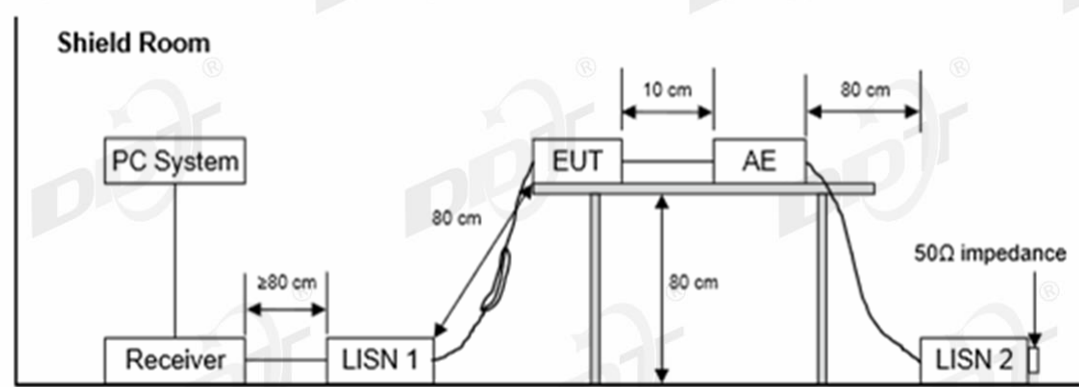
15.Power Line Conducted Emissions

15.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
Conducted Radiated Software	Audix	E3	DDT-ZC00562	/	/
Three-phase artificial power network	SCHWARZBECK	NSLK 8163	DDT-ZC01572	2025/07/08	1 Year
Two Line V-Network	R&S	ENV216	DDT-ZC02059	2025/07/08	1 Year
RF Cable	Yuhu Technology	Z806-NJ-NJ-6M	DDT-ZC02004	2025/07/08	1 Year
Δ-shaped artificial power network	SCHWARZBECK	PVDC 8301	DDT-ZC03939	2025/03/31	1 Year
EMI Test Receiver	R&S	ESCI/E3	DDT-ZC01297	2025/07/08	1 Year
Pulse Limiter	SCHWARZBECK	VTSD 9561	DDT-ZC02128	2025/07/08	1 Year
Two Line V-Network	R&S	ENV216	DDT-ZC02056	2025/07/08	1 Year

Note: The test date is 2024/07/09.

15.2. Block diagram of test setup



15.3. Limits

Frequency	Quasi-Peak Level dB(mV)	Average Level dB(mV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

15.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

15.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

15.6. Test result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “----” means Peak detection; “-----” means Average detection.

Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded the worst case.

15.7. Test data

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 6# Shield Room

Test Date

: 2024-07-09

EUT

: Tabletop Wireless Speaker

Power Supply

: AC 120V/60Hz

Condition

: Temp:21.9°C,Humi:56.2%

Memo

:

D:\2024 Report Date\Q24062510-1E\CE.EM6

Tested By

: Gen Liu

Model Number

: EDF286006

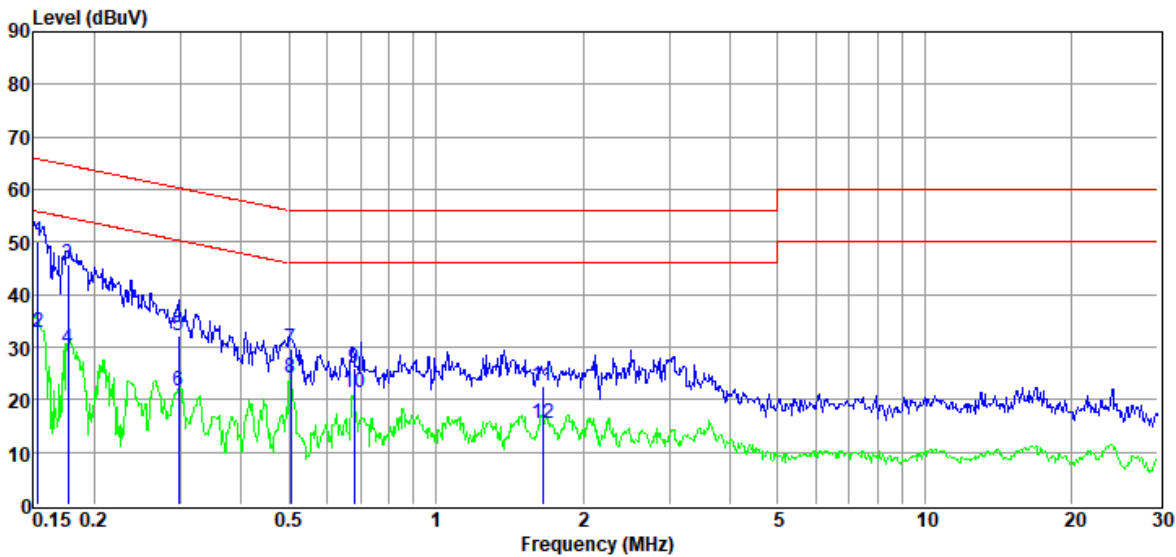
Test Mode

: 5GWIFI mode

LISN

: 2023 ENV 216 3#/LINE

Data: 18



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	30.18	9.83	0.10	9.94	50.05	65.82	-15.77	QP	LINE
2	0.15	13.02	9.83	0.10	9.94	32.89	55.82	-22.93	Average	LINE
3	0.18	26.03	9.59	0.11	9.94	45.67	64.64	-18.97	QP	LINE
4	0.18	10.15	9.59	0.11	9.94	29.79	54.64	-24.85	Average	LINE
5	0.30	12.44	9.68	0.12	9.95	32.19	60.32	-28.13	QP	LINE
6	0.30	1.80	9.68	0.12	9.95	21.55	50.32	-28.77	Average	LINE
7	0.50	9.97	9.62	0.13	9.96	29.68	56.00	-26.32	QP	LINE
8	0.50	4.41	9.62	0.13	9.96	24.12	46.00	-21.88	Average	LINE
9	0.68	6.28	9.59	0.14	9.96	25.97	56.00	-30.03	QP	LINE
10	0.68	1.70	9.59	0.14	9.96	21.39	46.00	-24.61	Average	LINE
11	1.65	2.59	9.60	0.26	9.99	22.44	56.00	-33.56	QP	LINE
12	1.65	-4.52	9.60	0.26	9.99	15.33	46.00	-30.67	Average	LINE

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site

: DDT 6# Shield Room

Test Date

: 2024-07-09

EUT

: Tabletop Wireless Speaker

Power Supply

: AC 120V/60Hz

Condition

: Temp:21.9°C,Humi:56.2%

Memo

:

D:\2024 Report Date\Q24062510-1E\CE.EM6

Tested By

: Gen Liu

Model Number

: EDF286006

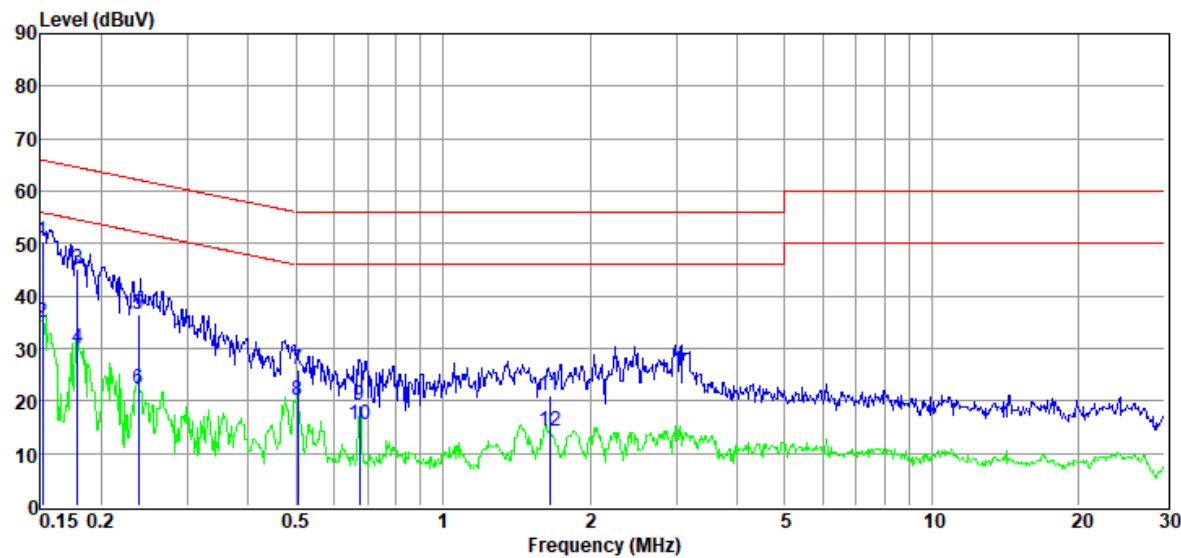
Test Mode

: 5GWIFI mode

LISN

: 2023 ENV 216 3#/NEUTRAL

Data: 20



Item	Freq.	Read Level	LISN Factor	Cable Loss	Pulse Limiter Factor	Result Level	Limit Line	Over Limit	Detector	Phase
(Mark)	(MHz)	(dBμV)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dB)		
1	0.15	30.70	9.81	0.10	9.94	50.55	65.91	-15.36	QP	NEUTRAL
2	0.15	15.16	9.81	0.10	9.94	35.01	55.91	-20.90	Average	NEUTRAL
3	0.18	25.43	9.82	0.11	9.94	45.30	64.55	-19.25	QP	NEUTRAL
4	0.18	10.02	9.82	0.11	9.94	29.89	54.55	-24.66	Average	NEUTRAL
5	0.24	16.64	9.84	0.11	9.95	36.54	62.17	-25.63	QP	NEUTRAL
6	0.24	2.31	9.84	0.11	9.95	22.21	52.17	-29.96	Average	NEUTRAL
7	0.50	6.06	9.81	0.13	9.96	25.96	56.00	-30.04	QP	NEUTRAL
8	0.50	0.24	9.81	0.13	9.96	20.14	46.00	-25.86	Average	NEUTRAL
9	0.68	-0.58	9.77	0.14	9.96	19.29	56.00	-36.71	QP	NEUTRAL
10	0.68	-4.29	9.77	0.14	9.96	15.58	46.00	-30.42	Average	NEUTRAL
11	1.65	0.72	10.02	0.26	9.99	20.99	56.00	-35.01	QP	NEUTRAL
12	1.65	-5.99	10.02	0.26	9.99	14.28	46.00	-31.72	Average	NEUTRAL

Note: 1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

17. Photos of the EUT

Please refer to DDT-Q24062510-2E appendix I

-----End Report-----