



TEST REPORT

Applicant Name : Address :

Report Number : FCC ID: Max Sales Group 15240 NELSON AVENUE CITY OF INDUSTRY, Los Angeles California United States 90040 SZ3220614-26225E-RF 2AUIF-VT-07863

Test Standard (s)

FCC Part 15.247

Sample Description

Product:	DRONE S106
Tested Model:	VT-07863
Trade Name:	BESMERY
Date Received:	2022-06-14
Date of Test:	2022-06-24 to 2022-07-06
Report Date:	2022-07-08

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Andy. Yu

Audy.Yu EMC Engineer

Approved By:

Candy . Li

Candy Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*.

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FCC- 2.4G Wi-Fi

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GENERAL INFORMATION

Product	DRONE S106
Tested Model	VT-07863
Trade Name	BESMERY
Frequency Range	Wi-Fi: 2412~2472 MHz
Maximum Conducted Peak Output Power	802.11g: 24.11dBm
Modulation Technique	OFDM
Antenna Specification*	Internal Antenna: 0dBi(provided by the applicant)
Voltage Range	DC 3.7V from battery
Sample serial number	SZ3220614-26225E-RF-S1(RF Radiated Test) SZ3220614-26225E-RF-S2(RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Product Description for Equipment under Test (EUT)

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, and KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Para	meter	Uncertainty	
Occupied Char	nnel Bandwidth	5%	
RF output pov	wer, conducted	0.73dB	
Unwanted Emis	ssion, conducted	1.6dB	
AC Power Lines C	onducted Emissions	2.72dB	
	30MHz - 1GHz	4.28dB	
Emissions, Radiated	1GHz - 18GHz	4.98dB	
Radiated	18GHz - 26.5GHz	5.06dB	
Temperature		1°C	
Humidity		6%	
Supply	voltages	0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

For 802.11g mode, total 13 channels are provided to testing:

802.11g mode was tested with Channel 1, 7 and 13.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Software "Wifi Test Tool v1.4.2"* was used during testing and power level as below:

Mode	Data Rate (Mbps)	Power Level*
802.11 g	6	31

The worse-case data rates are determined to be as above based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

Duty cycle

Test Result: Compliant. Please refer to the Appendix F.

Support Equipment List and Details

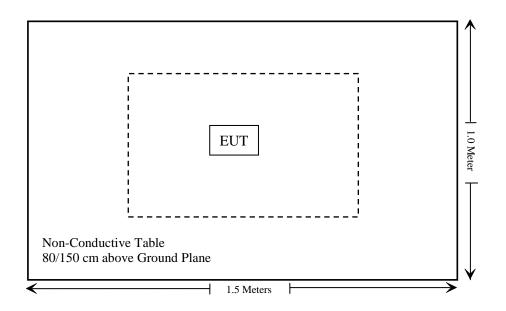
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	То
/	/	/	/

Block Diagram of Test Setup

For Radiated emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result	
FCC §15.247 (i) & §1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliant	
§15.203	Antenna Requirement	Compliant	
§15.207 (a)	AC Line Conducted Emissions	Not Applicable	
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant	
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant	
§15.247(b)(3)	Maximum Conducted Output Power	Compliant	
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant	
§15.247(e)	Power Spectral Density	Compliant	

Not Applicable: The product is powered by batter only when operating.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
	Radiated Emissions Test						
Rohde & Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08		
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08		
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2021/11/11	2022/11/10		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04		
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04		
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13		
	Radiated Er	nission Test Softw	ware: e3 19821b (V	79)			
		RF Conducted	d Test				
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2021/12/13	2022/12/12		
Rohde & Schwarz	Open Switch and Control Unit	OSP120 + OSP-B157	101244 + 100866	2021/12/13	2022/12/12		
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.33	RF-03	Each	time		

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247 (i) & 1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.4 – MPE-Based Exemption:

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

f = frequency in MHz;

R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

Result

For worst case:

Mode	Frequency Range	Tune-up Pov	-		enna ain	ERP				Evaluation Distance	ERP Limit
(MHz)	(dBm)	(W)	(dBi)	(dBd)	(dBm)	(W)	(cm)	(W)			
2.4G Wi-Fi	2412-2472	25.0	0.316	0	-2.15	22.85	0.193	20	0.768		

Note 1: The tune-up power was declared by the applicant. Note 2: 0dBd=2.15dBi.

Note: The tune up conducted power was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

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FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.

b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

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

Antenna Connector Construction

The EUT has one Internal Antenna arrangement, which was permanently attached and the antenna gain is 0dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

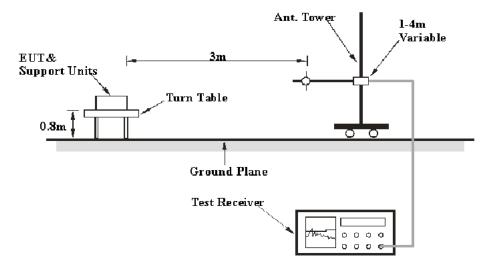
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

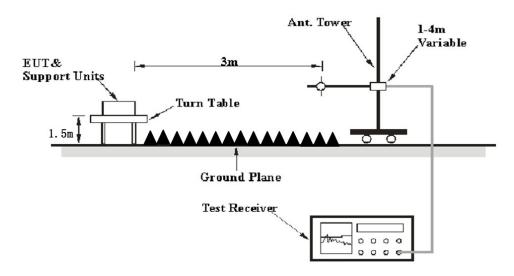
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1MHz	3 MHz	/	РК
Above 1 GHz	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	$> 1/T^{Note 2}$	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

If the maximized peak measured value complies with the limit, then it is unnecessary to perform QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	60 %
ATM Pressure:	108.0 kPa

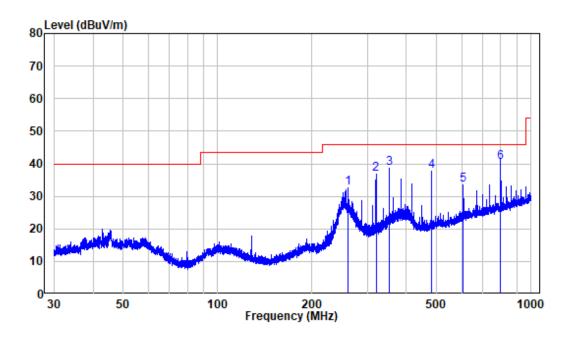
The testing was performed by Level Li on 2022-07-06.

EUT operation mode: 2.4G WIFI (Pre-scan in the X, Y and Z axes of orientation, the worst case orientation was recorded as setup photos)

30MHz-1GHz: (Worst case)

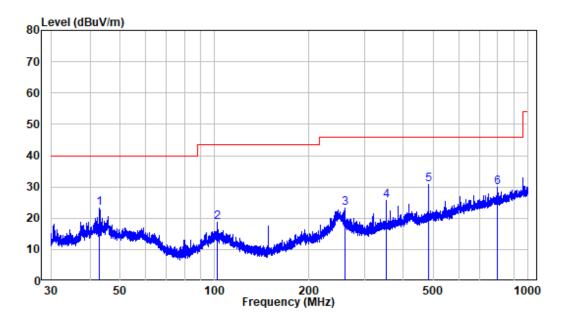
Wi-Fi: 802.11g mode, Low Channel

Horizontal



Site : chamber Condition: 3m HORIZONTAL Job No. : SZ3220614-26225E-RF Test Mode: 2.4G WIFI

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	260.031	-10.58	43.28	32.70	46.00	-13.30	Peak
2	320.077	-8.45	45.33	36.88	46.00	-9.12	Peak
3	352.016	-7.38	46.16	38.78	46.00	-7.22	Peak
4	480.107	-5.00	42.83	37.83	46.00	-8.17	Peak
5	608.053	-2.35	35.96	33.61	46.00	-12.39	Peak
6	800.382	-0.36	40.78	40.42	46.00	-5.58	QP



Vertical

Site : chamber Condition: 3m VERTICAL Job No. : SZ3220614-26225E-RF Test Mode: 2.4G WIFI

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	42.937	-9.96	33.34	23.38	40.00	-16.62	Peak
2	101.867	-11.58	30.18	18.60	43.50	-24.90	Peak
3	260.031	-10.58	33.69	23.11	46.00	-22.89	Peak
4	352.016	-7.38	32.93	25.55	46.00	-20.45	Peak
5	480.107	-5.00	35.73	30.73	46.00	-15.27	Peak
6	800.382	-0.36	30.19	29.83	46.00	-16.17	Peak

1-25 GHz:

Wi-Fi:

Frequency	Rece	Receiver		le Rx Antenna		Factor	Absolute	Limit	Margin
(MHz)	Reading (dBuV)	PK/AV	Angle Degree	Height (m)	Polar (H/V)	(dB / m)	Level (dBuV/m)	(dBuV/m)	(dB)
				802.11g, Lo	w Channel				
2310	55.81	РК	110	2.0	Н	-7.23	48.58	74	-25.42
2310	53.38	РК	171	1.6	V	-7.23	46.15	74	-27.85
2390	73	РК	163	1.0	Н	-7.21	65.79	74	-8.21
2390	55.67	AV	163	1.0	Н	-7.21	48.46	54	-5.54
2390	68.96	РК	204	2.0	V	-7.21	61.75	74	-12.25
2390	45.8	AV	204	2.0	V	-7.21	38.59	54	-15.41
4824	65.26	РК	34	1.7	Н	-3.53	61.73	74	-12.27
4824	53.31	AV	34	1.7	Н	-3.53	49.78	54	-4.22
4824	61.28	РК	330	1.5	V	-3.53	57.75	74	-16.25
4824	50.18	AV	330	1.5	V	-3.53	46.65	54	-7.35
			5	302.11g, Mid	dle Channel	1	1	1	
4874	55.8	РК	95	1.1	Н	-3.37	52.43	74	-21.57
4874	55.01	РК	50	1.8	V	-3.37	51.64	74	-22.36
				802.11g, Hig	gh Channel			1	
2483.5	73.73	РК	268	2.0	Н	-7.2	66.53	74	-7.47
2483.5	55.69	AV	268	2.0	Н	-7.2	48.49	54	-5.51
2483.5	63.96	РК	335	1.1	V	-7.2	56.76	74	-17.24
2483.5	47.18	AV	335	1.1	V	-7.2	39.98	54	-14.02
2500	58.61	РК	335	1.1	Н	-7.18	51.43	74	-22.57
2500	51.6	РК	265	1.8	V	-7.18	44.42	74	-29.58
4924	54.77	РК	10	1.1	Н	-3.15	51.62	74	-22.38
4924	55.99	РК	199	2.1	V	-3.15	52.84	74	-21.16

Note:

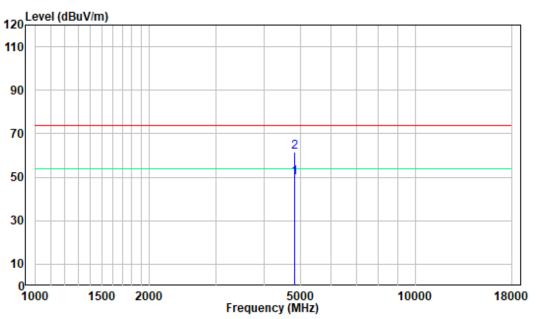
Absolute Level = Reading Level + Substituted Factor Substituted Factor contains: SG Level - Cable loss+ Antenna Gain

Margin = Absolute Level – Limit

The other spurious emission which is in the noise floor level was not recorded.

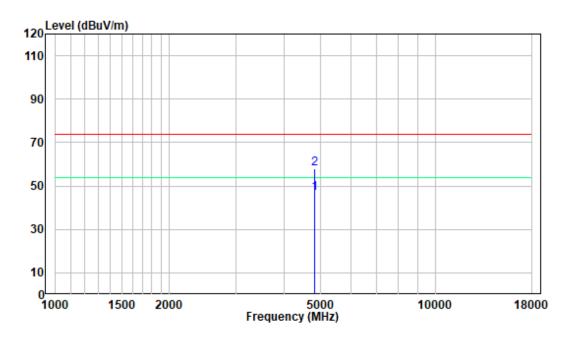
For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

1-18 GHz: (Worst case)

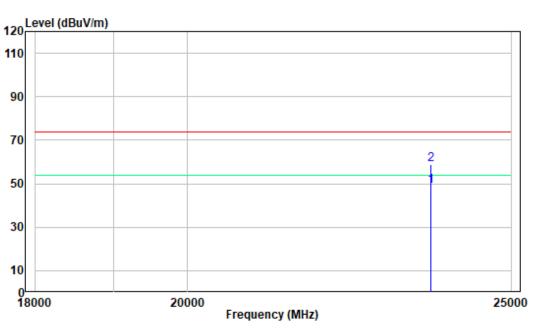


Pre-scan plots 802.11 g Low Channel Horizontal

Vertical

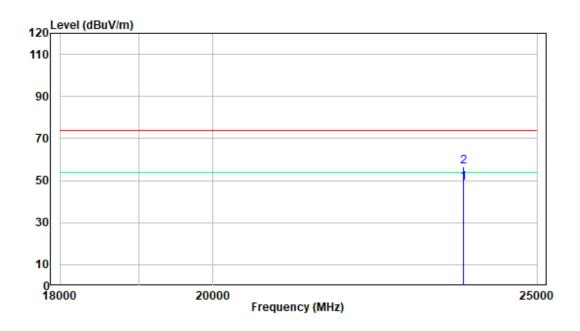


18 -25GHz: (Worst case)



Pre-scan plots 802.11 g Low Channel Horizontal

Vertical



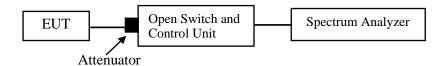
FCC §15.247(A) (2) – 6 DB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24°C
Relative Humidity:	55%
ATM Pressure:	101.0 kPa

The testing was performed by Cat Kang on 2022-06-24.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix A and Appendix B.

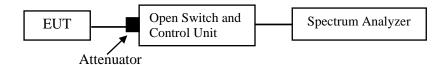
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	24°C	
Relative Humidity:	55%	
ATM Pressure:	101.0 kPa	

The testing was performed by Cat Kang on 2022-06-24.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix C.

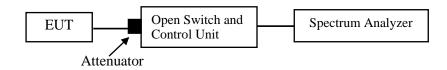
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	24°C	
Relative Humidity:	55%	
ATM Pressure:	101.0 kPa	

The testing was performed by Cat Kang on 2022-06-24.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix D.

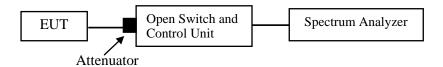
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \le RBW \le 100 kHz$.
- 3. Set the VBW \geq 3×RBW.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	24°C	
Relative Humidity:	55%	
ATM Pressure:	101.0 kPa	

The testing was performed by Cat Kang on 2022-06-24.

EUT operation mode: Transmitting

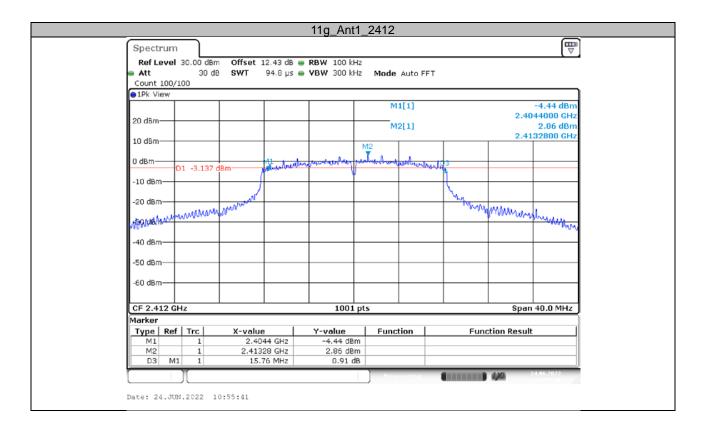
Test Result: Compliant. Please refer to the Appendix E.

APPENDIX A: 6dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
		2412	15.760	0.5	PASS
11g	Ant1	2442	15.520	0.5	PASS
		2472	15.200	0.5	PASS

Test Graphs



Report No.: SZ3220614-26225E-RF

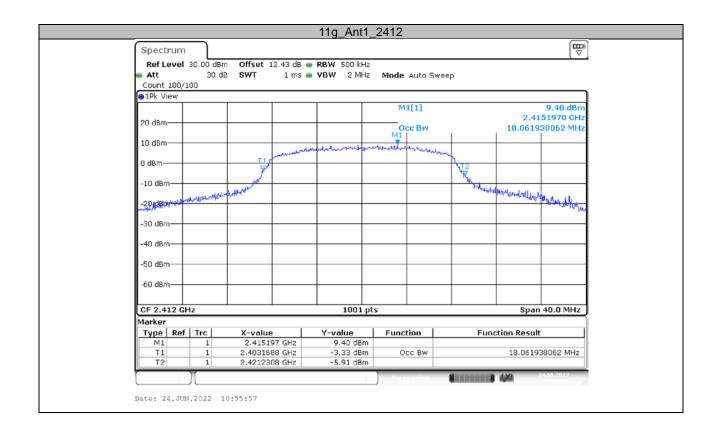
Ref Level 30.00 Mit Offset 12.43 db e RBW 100 Hit Att 30.00 BWT 94.8 µs e VBW 300 Hit Mode Auto FFT Count 100/100 0 JPk View 2.85 db Att 100 JPK 20 dbm MI[1] 2.265 db 10 dbm MI[1] 2.434000 C 10 dbm Mit II 2.4432800 C 10 dbm Mit II 2.4432800 C 10 dbm Mit II 2.4432800 C 10 dbm Mit III 2.4432800 C III Auto Auto Market P III Auto Auto Market P IIII Auto Auto Market P IIII Auto Auto Market P IIII Auto Auto Market P IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-				11g_Ant1	2442			
Ref Level 30.00 Mit Offset 12.43 db e RBW 100 Hit Att 30.00 BWT 94.8 µs e VBW 300 Hit Mode Auto FFT Count 100/100 0 JPk View 2.85 db Att 100 JPK 20 dbm MI[1] 2.265 db 10 dbm MI[1] 2.434000 C 10 dbm Mit II 2.4432800 C 10 dbm Mit II 2.4432800 C 10 dbm Mit II 2.4432800 C 10 dbm Mit III 2.4432800 C III Auto Auto Market P III Auto Auto Market P IIII Auto Auto Market P IIII Auto Auto Market P IIII Auto Auto Market P IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Reflevel								₽
Count 100/100 MI[1] -2.85 dl 2.43440000 20 dbm MI[1] 2.4342000 cl 4.79 dl 2.4432800 cl 4.79 dl 2.4432800 cl 4.79 dl 4.0 dbm 2.4432800 cl 4.0 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -20 dbm -20 dbm Function Function Result M1 1 2.434 dbc -2.65 dbm -2.65 dbm D3 db1 1 1.5 SP Mrz 1.24 db -2.65 dbm D3 db1 1 1.5 SP Mrz 1.24 db -2.65 dbm D3 db1 1 1.5 SP Mrz 1.24 db -2.65 dbm D3 db1 1.5 SP Mrz 1.24 db -2.72 dbm									
IPK View MI[1] 2-2.85 dl 2.434000 cl 4.79 dl 10 dbm M2[1] 2.434000 cl 4.79 dl 10 dbm 1.209 dbm M2[1] 2.4432800 cl 4.79 dl 10 dbm 1.209 dbm 1.209 dbm 1.209 dbm -10 dbm 1.209 dbm 1.209 dbm 1.209 dbm -20 dbm 1.209 dbm 1.209 dbm 1.209 dbm -40 dbm 1.24 dbm 1.24 dbm 1.24 dbm -50 dbm 1.24 dbm 1.24 dbm 1.24 dbm M1 1.55 2 Mez 1.24 dbm 1.24 dbm Date: 24.300.2021 10:49:46 1.24 dbm Count 100/100 1.24 dbm 1.24 dbm 1.24 dbm 0 dbm 1.24 dbm 1.24 dbm 1.24 dbm 0 dbm 1.24 dbm 1.24 dbm 1.24 dbm 0 dbm 1.24 dbm 1.24 dbm			B SWT	94.8µs (VBW 300 kH	z Mode Auto	FFT		
20 dBm 2.4344000 C 10 dBm 2.4432800 C 10 dBm 2.4432800 C 10 dBm 2.4432800 C 10 dBm 1.200 dBm -10 dBm -1.200 dBm -20 dBm -1.200 dBm Marker -2.434 GHz Yeel Ref Trc X-value Yeel Ref Trc <									
20 dbm M2[1] 4.79 db 10 dbm 0.1-1.209 dbm M2[1] 2.4432800 cb -10 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -20 dbm -20 dbm -20 dbm -20 dbm -40 dbm -20 dbm -20 dbm -20 dbm -20 dbm -50 dbm -50 dbm -20 dbm -20 dbm -20 dbm -60 dbm -20 dbm -2.4326 Gtz -2.05 dbm Function Function Result M2[1] 1 2.44326 Gtz -2.05 dbm Function Function Result M2[1] 1 2.44326 Gtz -2.05 dbm Function Function Result M2[1] 1 2.44326 Gtz -2.05 dbm Function Function Result M2[1] 1 2.44326 Gtz -2.05 dbm Function Function Result M2[1] 2.4328 Gtm 10 dbm M2[1] -2.4328 Gtm Function Od bm <t< td=""><td></td><td></td><td></td><td></td><td></td><td>M1[1]</td><td></td><td>2.4</td><td>-2.85 dBm 344000 GHz</td></t<>						M1[1]		2.4	-2.85 dBm 344000 GHz
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-50 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -10					+				
60 dBm Image: constraint of the second									
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Marker Yuge Ref Trc X-value Y-value Function Function Result M1 1 2.4324 GHz -2.85 dBm Function Result Function Result Function Result	CF 2,442 CH				1001	pts		Spar	1 40.0 MHz
M1 1 2.434 GHz -2.85 dBm M2 1 2.44328 GHz 4.79 dBm 0 D3 M1 1 15.52 MHz 1.24 dB 0 Date: 24.JUN.2022 10:49:46 0 2445022 Date: 24.JUN.2022 10:49:46 0 2445022 Date: 24.JUN.2022 10:49:46 0 0 Spectrum Ref Level 30.00 dBm Offset 12.43 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT Count 100/100 PIPk View								opu	
M2 1 2.44328 GHz 4.79 dBm D3 M1 1 15.52 MHz 1.24 dB Control Contro Control Contecontrol Control Contecontrol Contrecontecontrol Cont							Fι	inction Resu	t
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Date: 24.JUN.2022 10:49:46 Ilg_Ant1_2472 Spectrum Ref Level 30.00 dBm Offset 12.43 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT Count 100/100 Image: State of the state of	D3 MI		15.	52 IVINZ	1.24 ut	>		10 AMA	24.06.2022
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Att 30 dB SWT 94.8 µs ● VBW 300 kHz Mode Auto FFT Count 100/100 ●1Pk View	Spectrum								
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20 dBm M1[1] -1.72 di 20 dBm M2[1] 2.4644000 di 10 dBm M2[1] 5.40 di 0 dBm M2 2.4732800 di -10 dBm M2 4.4732800 di -10 dBm M2 4.4732800 di -10 dBm M2 4.4732800 di -20 dBm M4 M4 -30 dBm M4 M4 -40 dBm -40 dBm -40 dBm -60 dBm -60 dBm -60 dBm	Count 100/10		5 541	54.0 p3	• • • • • • • • • • • • • • • • • • •				
20 dBm 2.4644000 0 10 dBm M2[1] 0.48m 01 -0.603 dBm -10 dBm M2 -20 dBm M2 -10 dBm M2 -20 dBm M2 -10 dBm M2 -20 dBm M2 -20 dBm M2 -20 dBm M4 -40 dBm -40 dBm -60 dBm -40 dBm -20 dBm -20 dBm </td <td>●1Pk View</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	●1Pk View								
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10 dBm 01 -0.603 dBm 11 data free free free free free free free fre			L					2.4	
-10 dBm -20 dBm -40 dBm <t< td=""><td></td><td></td><td></td><td></td><td>+</td><td></td><td></td><td></td><td>644000 GHz 5.40 dBm</td></t<>					+				644000 GHz 5.40 dBm
-20 dBm				M1	1 4 4	M2[1]			644000 GHz 5.40 dBm
-40 dBm -50 dBm -60 dBm -60 dBm CF 2.472 GHz 1001 pts Span 40.0 MH Marker	10 dBm	1 -0.603 0	dBm	11 Mary Astrological		M2[1]	and the former of the former o		644000 GHz 5.40 dBm
-40 dBm -50 dBm -60 dBm -60 dBm CF 2.472 GHz 1001 pts Span 40.0 MH Marker	10 dBm	1 -0.603 0			need have been presented on the second	M2[1]	and an effer	2.4	544000 GHz 5.40 dBm 732800 GHz
-40 dBm -50 dBm -60 dBm -60 dBm CF 2.472 GHz 1001 pts Span 40.0 MH Marker	10 dBm 0 dBm -10 dBm				ne ohne Nacarlow y	M2[1]	when the	2.4	544000 GHz 5.40 dBm 732800 GHz
-50 dBm -60 dBm -60 dBm CF 2.472 GHz 1001 pts Span 40.0 MH Marker	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm					M2[1]	- Marina	2.4	544000 GHz 5.40 dBm 732800 GHz
-60 dBm	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm					M2[1]	Muru	2.4	544000 GHz 5.40 dBm 732800 GHz
CF 2.472 GHz 1001 pts Span 40.0 MH Marker	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm					M2[1]		2.4	544000 GHz 5.40 dBm 732800 GHz
CF 2.472 GHz 1001 pts Span 40.0 MH Marker	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm					M2[1]		2.4	544000 GHz 5.40 dBm 732800 GHz
Marker	10 dBm					M2[1]	- Marine -	2.4	544000 GHz 5.40 dBm 732800 GHz
	10 dBm					M2[1]	Marine Contraction	2.4	544000 GHz 5.40 dBm 732800 GHz
	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	www.beach				M2[1]	when the second	2.4	544000 GHz 5.40 dBm 732800 GHz
M1 1 2.4544 GHz -1.72 dBm	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.472 GH Marker	WWWWWWWWWWWWWWWWWWWWWWW			1001	M2[1]		2.4 Mantumarkarkarkarkarkarkarkarkarkarkarkarkarka	5.4000 GHz 5.40 dBm 732800 GHz
M2 1 2.47328 GHz 5.40 dBm D3 M1 1 15.2 MHz -0.56 dB	10 dBm 0 -10 dBm 0 -20 dBm	4z	X-value 2.46	e 44 GHZ	1001 Y-value -1.72 dBrr	M2[1]		2.4	5.4000 GHz 5.40 dBm 732800 GHz
US Image: Sector finance Measuring 24.05.2022 Measuring Measuring 24.05.2022 24.05.2022	10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -10	1z	x-value 2.45 2.473	e 44 GHz 28 GHz	1001 Y-value -1.72 dBm 5.40 dBm	M2[1]		2.4 Mantumarkarkarkarkarkarkarkarkarkarkarkarkarka	5.4000 GHz 5.40 dBm 732800 GHz
Date: 24.JUN.2022 10:52:44	10 dBm 0 -10 dBm 0 -20 dBm	1z	x-value 2.45 2.473	e 44 GHz 28 GHz	1001 Y-value -1.72 dBrr	M2[1]	FL	2.4 Manitum Arrited Spaintion Result	5.4000 GHz 5.40 dBm 732800 GHz

APPENDIX B: Occupied Channel Bandwidth

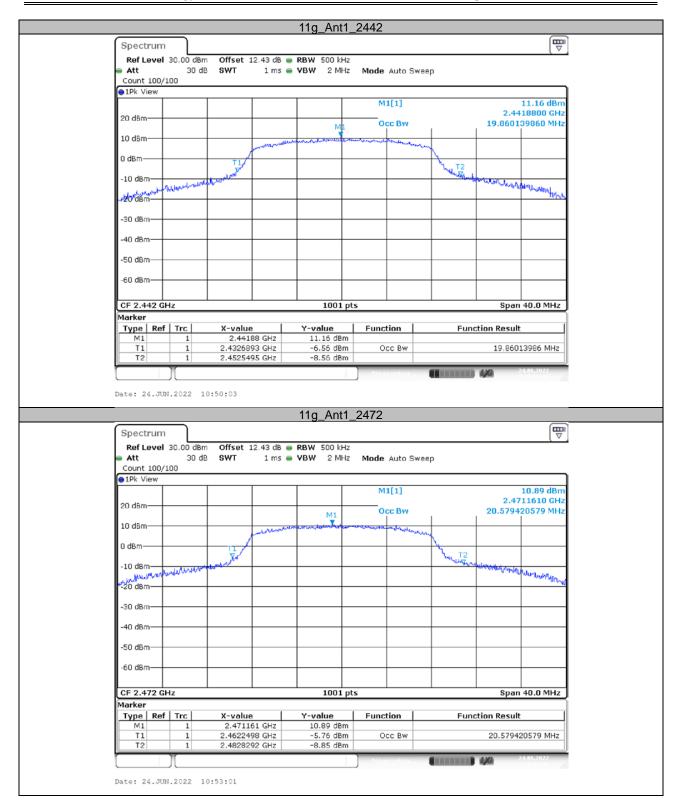
Test Result:

TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
		2412	18.062		PASS
11g	Ant1	2442	19.86		PASS
		2472	20.579		PASS

Test Graphs:



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APPENDIX C: Maximum conducted output power

Test Result (AV)

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	19.12	<=30	PASS
11g	Ant1	2442	19.95	<=30	PASS
		2472	20.17	<=30	PASS

Test Result (PK)

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		2412	21.95	<=30	PASS
11g	Ant1	2442	23.63	<=30	PASS
		2472	24.11	<=30	PASS

APPENDIX D: Band edge measurements

Test Graphs



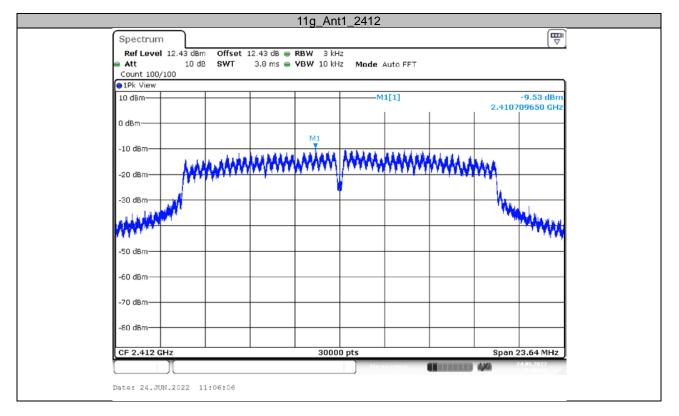
Version 12: 2021-11-09

APPENDIX E: Maximum power spectral density

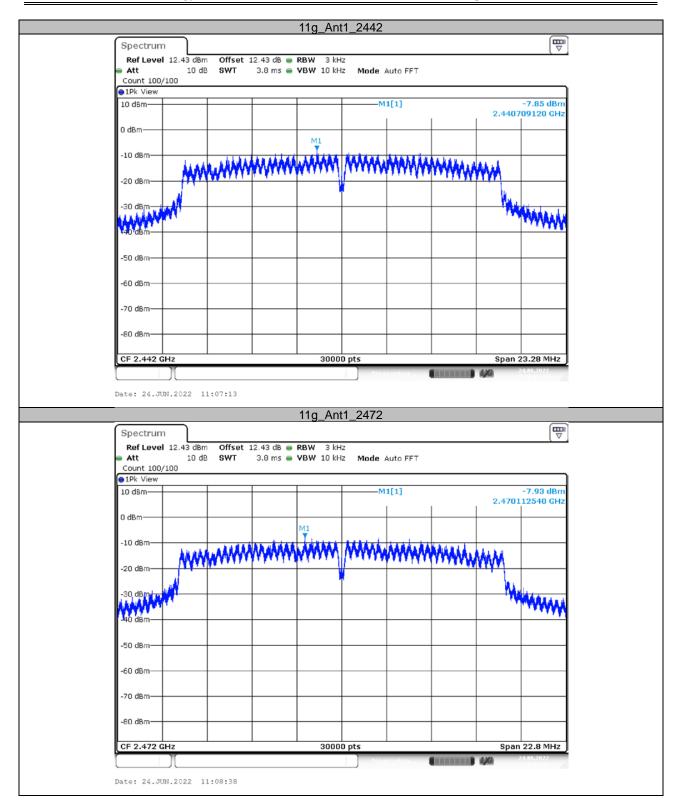
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-9.53	<=8	PASS
11g	Ant1	2442	-7.85	<=8	PASS
		2472	-7.93	<=8	PASS

Test Graphs



Report No.: SZ3220614-26225E-RF



APPENDIX F: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
		2412	1.38	1.41	97.87
11g	Ant1	2442	1.39	1.41	98.58
		2472	1.38	1.41	97.87

Test Graphs

			11g_Ant1	_2412		
Spectrum						E ↓
Ref Level	30.00 dB	m Offset 12.43 c	ib 🥌 RBW 10 MHz	:		
Att		iB 👄 SWT 5 n	ns 👄 VBW 10 MHz	:		
SGL TRG: VII	D					
●1Pk Clrw						
20 d8th		D1		M1[1]		15.63 dBn 80.00 µ:
Carry and and and	harronschart	tour brown while and	male management	wwwwwwwww	energine and and	גנאיסאליולאוייער איזאייאייאיאא אויאייאייאאי דע 20100 ער
10 dB n	RG 10.90)0 dBm				1.38000 m
0 dBm						
-10 dBm						
-20 d <mark>8</mark> m						
-30 dBm						
-40 dBm						
50.15						
-50 dBm						
-60 dBm						
CF 2.412 G	Hz		1001 p	ts		500.0 μs/
Marker	1		1 1	1	1 -	
Type Ref	1 Trc	X-value 80.0 µs	Y-value 15.63 dBm	Function	Fur	nction Result
D1 M1		1.38 ms	2.75 dB			
D2 M1		1.41 ms	0.13 dB			
	1			Ready		24.05.2022
	·					
Date: 24.JUN	1.2022	10:55:14				

Report No.: SZ3220614-26225E-RF

				11g_Ant1	_2442		
Spectrum							ſ
Ref Level	30.00 dBr	n Offset	12.43 dB	- RBW 10 MH	z		(
Att		B 👄 SWT	5 ms	VBW 10 MH:	z		
SGL TRG:VID 1Pk Clrw)						
					M1[1]		17.23 di
20.d8m	M1	-	- Martin - M	-	Dilliporo	and the paternation	620.00 1.43
10 dBm TF	RG 11.200	1			DI[I]		1.38500
20 0.0.11							
0 dBm							
-10 dBm				+			
-20 dBm							
20 0011	v			1 ' I		· · · ·	
-30 dBm							
-40 dBm							
-50 dBm							
-60 dBm			1				
CF 2.442 GH	lz			1001 p	its		500.0 µs
Marker				1001 p			000.0 μ
Type Ref		X-valu		Y-value	Function	Fund	tion Result
M1 D1 M1	1		20.0 µs 385 ms	17.23 dBm 1.43 dB			
D2 M1	1		l.41 ms	0.13 dB			
	Л				Ready		4/0 24.05.2022
ate: 24.JUN	.2022 1	0:49:20					
ate: 24.JUN	.2022 1	0:49:20		11a Ant1	2472		
	.2022 1	0:49:20		11g_Ant1	_2472		ſ
Spectrum			12.43 dB				(1
Spectrum Ref Level 3	30.00 dBn 40 di			11g_Ant1 RBW 10 MH: VBW 10 MH: 	2		(1
Spectrum Ref Level (Att SGL TRG: VID	30.00 dBn 40 di	n Offset		RBW 10 MH:	2		ſ
Spectrum Ref Level 3	30.00 dBn 40 di	n Offset		RBW 10 MH:	2		18.14 di
Spectrum Ref Level 3 Att SGL TRG: VID 1Pk Clrw	30.00 dBn 40 di	n Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level 3 Att SGL TRG:VID 1Pk Cirw	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 Z	lyber war friedrich seiter propertie	18.14 di
Spectrum Ref Level 3 Att SGL TRG:VID 1Pk Cirw 0 dSm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level 3 Att SGL TRG:VID 1Pk Cirw	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level 3 Att SGL TRG:VID 1Pk Cirw 0 dSm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level 3 Att SGL TRG:VID 1Pk Clrw 10 dBm 10 dBm 10 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level : Att SGL TRG: VID 1Pk Clrw 1 0 dBm 10 dBm 10 dBm 20 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level 3 Att SGL TRG:VID 1Pk Clrw 10 dBm 10 dBm 10 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level : Att SGL TRG: VID 1Pk Clrw 1 0 dBm 10 dBm 10 dBm 20 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level : Att SGL TRG: VID 1Pk Cirw 10 dBm 10 dBm 10 dBm 20 dBm -30 dBm -40 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level : Att SGL TRG: VID 1Pk Clrw 1Pk Clrw 10 dBm 10 dBm 20 dBm -30 dBm -30 dBm -50 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level : Att SGL TRG: VID 1Pk Cirw 10 dBm 10 dBm 10 dBm 20 dBm -30 dBm -40 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH:	2 2 M1[1]		18.14 di -145.00
Spectrum Ref Level : Att SGL TRG: VID 1Pk Clrw 10 dBm 10 dBm 20 dBm -10 dBm -30 dBm -50 dBm -60 dBm	30.00 dBn 40 di	Offset	5 ms	RBW 10 MH: VBW 10 MH:	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		18.14 di -145.00 1.38000
Spectrum Ref Level : Att SGL TRG: VID 1 Dk Cirw 1 D dBm 10 dBm 20 dBm -30 dBm -60 dBm -60 dBm CF 2.472 GH	30.00 dBr 40 di) RG 11.500	Offset	5 ms	RBW 10 MH: VBW 10 MH:	2 2 M1[1] 0 0 0 0 0 0 0 0 0 0 0 0 0		18.14 dl -145.00 1.38000
Spectrum Ref Level 3 Att SGL TRG: VID 1 Dk Cirw 1 D dBm 10 dBm 20 dBm -10 dBm -20 dBm -30 dBm -60 dBm -60 dBm -60 dBm -60 dBm -50 dBm -60 dBm -60 dBm -77 -87 -87 -87 -87 -87 -87 -87	30.00 dBr 40 di) RG 11.500	n Offset 3 ● SWT	5 ms	RBW 10 MH; VBW 10 MH; VBW 10 MH; IOI I I I I I I I I I I I I I I I I	Z Z M1[1] D1[1] D1[1] C C C C C C C C C C C C C C C C C C C	Func	18.14 di -145.00 1.38000
Spectrum Ref Level Att SGL TRG: VID IPk Clrw IPk Clrw IO dBm IO dBm 10 dBm 20 dBm -30 dBm -60 dBm -70 dBm	30.00 dBn 40 di 30.00 dBn 40 di 40 di 30.00 dBn 40 di 30.00 dBn 40 di 30.00 dBn 40	A Offset	5 ms	RBW 10 MH: VBW 10 MH: V	2 2 7 7 7 7 7 7 7 7 7 7 7 7 7	Funct	18.14 dl -145.00 1.38000
Spectrum Ref Level : Att SGL TRG: VID 1Pk Clrw 1Pk Clrw 10 dBm 10 dBm 20 dBm -10 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm -60 dBm -50 dBm -60 dBm -60 dBm -60 dBm -71 -82 -82 -82 -82 -82 -82 -82 -82	30.00 dBn 40 di 30.00 dBn 40 di 40 di 30.00 dBn 40 di 30.00 dBn 40 di 30.00 dBn 40	A Offset	5 ms	RBW 10 MH: VBW 10 MH: 1001 p 1001 p 1001 p 18.14 dBm	2 2 7 7 7 7 7 7 7 7 7 7 7 7 7		18.14 di -145.00 1.38000 1.38000
Spectrum Ref Level Att SGL TRG: VID IPk Clrw IPk Clrw IO dBm IO dBm 10 dBm 20 dBm -30 dBm -60 dBm -70 dBm	30.00 dBn 40 di 30.00 dBn 40 di 40 di 30.00 dBn 40 di 30.00 dBn 40 di 30.00 dBn 40	A Offset	5 ms	RBW 10 MH: VBW 10 MH: V	2 2 7 7 7 7 7 7 7 7 7 7 7 7 7	Func	18.14 di -145.00 1.38000 1.38000

***** END OF REPORT *****

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