



SZEMC-TRF-01 Rev. A/1

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TEST REPORT

Test Result:	Pass*
Data of Issue:	2025-03-25
Date of Test:	2025-03-06 to 2025-03-24
Date of Receipt:	2024-12-27
Standard(s) :	47 CFR Part 15, Subpart C 15.249
FCC ID:	SS3-RD702412
Trade Mark:	DJI
Model No.:	RD241608RFV3.1
EUT Name:	Active Phased Array Radar(FRONT)
Equipment Under Test (EUT)	:
Address of Manufacturer:	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China
Manufacturer:	SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant:	Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055 Shenzhen, China
Applicant:	SZ DJI TECHNOLOGY CO., LTD.
Application No.:	SZCR2412004913AT

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

Keny. XM

Keny Xu EMC Laboratory Manager



AUDITATURY With Higher Strengther Strength



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-03-25		Original

Authorized for issue by:		
	Darren Yuan	
	Darren Yuan/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement			
Item	FCC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	N/A	Pass

Radio Spectrum Matter Part			
Item	FCC Requirement	Method	Result
20dB Emission bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	Pass
Filed strength of fundamental	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.6	Pass
Radiation Spurious Emission	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.6	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.10	Pass



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General Information 4

Details of E.U.T. 4.1

Power supply:	12V DC	
Operation Frequency:	24.05-24.25GHz	
Modulation:	FMCW	
Antenna Type:	Phased Array Antenna	
Antenna Gain:	Upward Radar Antenna: 10dBi	
	Omnidirectional Radar Antenna: 10dBi	

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	Chroma	62012P-80-60	REF. No.SEA27C00
Test board	DJI	PP004731.03	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 3%
Filed Strength of Fundamental	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	\pm 6.0dB for 3m; \pm 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (Above 18GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Dro Amplifior	Agilant Tashnalagiaa	94470	SEM005 01	2024-03-14	2025-03-13
Pre-Ampliner	Aglient Technologies	0447D	3E10005-01	2025-03-13	2026-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	SEM004-20	2024-03-30	2025-03-29
Horn Antenna(800MHz- 18GHz)	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier (0.5GHz- 26.5GHz)	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Broad-Band Horn Antenna(15GHz-40GHz)	SCHWARZBECK	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Programmable Temperature Humidity	Votsch Industrietechnik	VT 4002	SEM002-15	2024-03-19	2025-03-18
Chamber	GmbH			2025-03-18	2026-03-17
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
	Inc.			2025-03-14	2026-03-13
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Waveguide(40-60GHz)	REBES	SWG-19025- FB	06303-01	2025-02-18	2028-02-17
Waveguide(50-75GHz)	REBES	SWG-15025- FB	01525-09	2025-02-18	2028-02-17
Waveguide(75-110GHz)	REBES	SWG-10025- FB	01509-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	2025-02-18	2028-02-17



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			U		
Signal Analyzar	Pobdo & Sobworz	ESV/40	SEM008 04	2024-03-14	2025-03-13
Signal Analyzei	Ronue & Schwarz	F3V40	SEIVI008-04	2025-03-13	2026-03-12
General used equipmen	General used equipment				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological		SEM002-01	2024-03-18	2025-03-17
Daiometer	Industry Factory		SE1002-01	2025-03-17	2026-03-16



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 10dBi for Upward Radar Antenna and Omnidirectional Radar Antenna.

Antenna location: Refer to internal photos



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6.2 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5°C Humidity: 49.7 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _ Keep the EUT in continuously transmitting mode

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

- Place the EUT on the table and set it in the transmitting mode 1)
- SA set RBW=1%~5% OBW, VBW=3RBW and Detector=Peak 2)
- Measure and record the result of 20dB bandwidth 3)



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Test Data:

For Omnidirectional Radar





Low Frequency (GHz)	Limit (GHz)	High Frequency (GHz)	Limit (GHz)	20dB Bandwidth (MHz)	Result
24.063	≥24.00	24.2335	≤24.25	175.3	Pass



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For Upward Radar



Keysight Spect	trum Analyzer - Occupied BW							- 0 ×
LXI RL	RF 50 Ω DC		SENSE:INT		ALIGN OFF 11:	23:37 AM Mar 24, 2025	Trac	e/Detector
x dB -20.0	0 dB		Center Freq: 24.150 Trig: Free Run	AvalHold:	10/10 Radi	io Sta: None		
		#IFGain:Low	#Atten: 10 dB		Radi	io Device: BTS		
					Mkr1 2	4.2355 GHz		
10 dB/div	Ref 106 99 dB	uV			6	7.723 dBuV		
Log								
97.0								0 1
87.0								clear write
77.0								
67.0								
57.0								Average
57.0								Average
47.0		and an advert		L	سوعاديد بروجها لإسوا مستخدارهما			
37.0								
27.0								Max Hold
17.0								
Center 24	.15 GHz			-		Span 500 MHz		
#Res BW	2 MHZ		#VBW 6 M	IZ	#5	weep 100 ms		Min Hold
0.000	ind Dondwidt	L	Total	ower	80 7 dBu	V		
Occup	ied Bandwidt		-	00001	03.7 UDµ			
	17	0.29 MI	Z					Detector
-		454.001	-LI- 0/ - 5 O	DW/ D	- 00.00	0/	0	Peak►
Transm	it Freq Error	451.901	(HZ % OT U	BW Powe	F 99.00	%	Auto	<u>iviari</u>
x dB Ba	Indwidth	174.1 N	Hz xdB		-20.00 d	в		
					074740			
mou					STATUS		_	

Low Frequency (GHz)	Limit (GHz)	High Frequency (GHz)	Limit (GHz) 20dB Bandwidth (MHz)		Result
24.065	≥24.00	24.2355	≤24.25	174.1	Pass



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6.3 Filed Strength of Fundamental and Radiation Spurious Emission

Test Requirement Test Method: Limit:

47 CFR Part 15, Subpart C 15.249(a) ANSI C63.10 (2013) Section 6.6

(1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Field strength limits are specified at a distance of 3 meters.

Fundamental Limit Conversion							
Average (mV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at	Peak (dBuV/m) at 0.5M				
		0.5M					
250	107.9588	123.52	143.52				

* (Limit = 107.9588 + 20LOG(3/0.5) = 123.52 dBuV/m)

Harmonic Limit Conversion							
Average (uV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at 0.5M	Peak (dBuV/m) at 0.5M				
2500	67.9588	83.52	103.52				

*(Limit=67.9588+20LOG(3/0.5)=83.52 dBuV/m)

(2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits (follow the table), whichever is the lesser attenuation.

Below 30MHz

Frequency	Field Strength (µA/m)	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30



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Above 30MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)		
	Transmitters	Receivers	
30-88	100 (40dBuV/m)	100 (40dBuV/m)	
88-216	150 (43.5dBuV/m)	150 (43.5dBuV/m)	
216-960	200 (46dBuV/m)	200 (46dBuV/m)	
Above 960	500 (54dBuV/m)	500 (54dBuV/m)	

Frequency	Field Strength microvolts/m at specific distance			
	Peak	AVG		
18-40GHz	83.54dBuV/m@1m	63.54dBuV/m@1m		
Above 40GHz	103.52dBuV/m@0.5m	83.52dBuV/m@0.5m		

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 5 °C Humidity: 49.7 % RH

Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _ Keep the EUT in continuously transmitting mode



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6.3.3 Test Setup Diagram



Above 40GHz

Test Receiver



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6.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For 1-18GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.5 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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Test Data for Filed Strength of Fundamental Omnidirectional radar:



Vertical_Peak



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Horizontal Average

Vertical Average





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Frequency (GHz)	Distance (m)	Polarity	Measured Filed strength dBuV/m	Desensitization Factor(dB)	Final Filed strength dBuV/m	Limit	Result	Remark
24.15	0.5	Horizontal	120.855	1.81	122.665	143.52	Pass	Peak
24.15	0.5	Horizontal	113.490	1.81	115.300	123.52	Pass	AVG
24.15	0.5	Vertical	103.002	1.81	104.812	143.52	Pass	Peak
24.15	0.5	Vertical	99.576	1.81	101.386	123.52	Pass	AVG

Note: Final Field strength [dBuv/m]=Mesured Field strength [dBuv/m]+ Desensitization Factor[dB] The FMCW Desensitization factor

FMCW Witdh(MHz)	T _{chirp} (us)	RBW(MHz)	Desensitization Factor(lin)	Desensitization Factor(dB)
170.29	66	1	0.660	1.81

FMCW desensitization factor =-10*Log(α)=-10*Log(0.660)= 1.81dB

$$\alpha = \frac{1}{\sqrt{1 + \left(\frac{2\ln(2)}{\pi}\right)^2 \left(\frac{BW_{\text{Chip}}}{T_{\text{Chip}}B^2}\right)^2}}$$

where α is the reduction in amplitude Fs is the FMCW Chirp Bandwidth Ts is the FMCW Chirp Time B is the 3 dB IF Bandwidth = RBW



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Upward radar:



Vertical Peak





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Horizontal_Average

Vertical Average





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Frequency (GHz)	Distance (m)	Polarity	Measured Filed strength dBuV/m	Desensitization Factor(dB)	Final Filed strength dBuV/m	Limit	Result	Remark
24.15	0.5	Horizontal	117.250	1.81	119.060	143.52	Pass	Peak
24.15	0.5	Horizontal	116.886	1.81	118.696	123.52	Pass	AVG
24.15	0.5	Vertical	112.158	1.81	113.968	143.52	Pass	Peak
24.15	0.5	Vertical	111.579	1.81	113.389	123.52	Pass	AVG

Note: Final Field strength [dBuv/m]=Mesured Field strength [dBuv/m]+ Desensitization Factor[dB] The FMCW Desensitization factor

FMCW Witdh(MHz)	T _{chirp} (us)	RBW(MHz)	Desensitization Factor(lin)	Desensitization Factor(dB)
170.29	66	1	0.660	1.81

FMCW desensitization factor =-10*Log(α)=-10*Log(0.660)= 1.81dB

$$\alpha = \frac{1}{\sqrt{1 + \left(\frac{2\ln(2)}{\pi}\right)^2 \left(\frac{BW_{\text{Chip}}}{T_{\text{Chip}}B^2}\right)^2}}$$

where α is the reduction in amplitude Fs is the FMCW Chirp Bandwidth Ts is the FMCW Chirp Time B is the 3 dB IF Bandwidth = RBW



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Radiation Spurious Emission (Omnidirectional Radar is the worst mode, only the worst mode test data were recorded in this report)

30MHz-1000MHz; Test Mode: 00; Polarity: Horizontal



Site : chamber Condition: 3m HORIZONTAL Job No. : 04913AT/04914AT Test Mode: 00

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB /m	dB	dB	dBuW			dB	
	11112	ub/iii	ub	ub	ubuv	ubuv/m	ubuv/m	ub	
1	41.860	15.48	0.80	27.76	36.88	25.40	40.00	-14.60	QP
2	117.773	11.20	1.35	27.52	43.08	28.11	43.50	-15.39	QP
3	145.861	12.53	1.51	27.40	43.84	30.48	43.50	-13.02	QP
4	200.688	14.16	1.76	27.17	39.02	27.77	43.50	-15.73	QP
5	349.250	19.86	2.40	26.95	34.74	30.05	46.00	-15.95	QP
6 q	760.704	26.47	3.74	27.58	30.77	33.40	46.00	-12.60	QP



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30MHz-1000MHz; Test Mode: 00; Polarity: Vertical



Site :	chamber
Condition:	3m VERTICAL
Job No. :	04913AT/04914AT
Test Mode:	00

			Ant	Cable	Preamp	Read		Limit	0ver	
		Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	40.135	16.35	0.78	27.76	44.62	33.99	40.00	-6.01	QP
2		69.114	10.65	1.01	27.68	41.83	25.81	40.00	-14.19	QP
3		126.772	10.97	1.40	27.48	45.03	29.92	43.50	-13.58	QP
4		145.861	12.53	1.51	27.40	49.26	35.90	43.50	-7.60	QP
5		185.138	14.27	1.70	27.23	44.55	33.29	43.50	-10.21	QP
6		437.120	21.06	2.72	27.31	28.28	24.75	46.00	-21.25	QP



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1GHz-18GHz; Test Mode: 00; Polarity: Horizontal





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Site :	chamber
Condition:	3m VERTICAL
Job No :	04913AT\04914AT
Mode :	RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	5.41	24.84	54.69	56.77	32.33	74.00	-41.67	Peak
2	2006.877	5.07	28.83	54.90	56.22	35.22	74.00	-38.78	Peak
3	3396.098	6.22	32.38	54.70	56.02	39.92	74.00	-34.08	Peak
4	6340.436	8.81	34.92	53.14	52.69	43.28	74.00	-30.72	Peak
5	11269.860	11.88	37.77	53.06	52.25	48.84	74.00	-25.16	Peak
6	q17639.470	14.69	43.68	52.58	37.38	43.17	54.00	-10.83	Average
7	p17639.470	14.69	43.68	52.58	48.85	54.64	74.00	-19.36	Peak



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18GHz-40GHz; Test Mode: 00; Polarity: Horizontal





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40GHz-60GHz; Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
44.753	0.5	67.560	83.52	Н	PASS
44.811	0.5	67.455	83.52	V	PASS



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60-75 GHz Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
68.715	0.5	72.386	83.52	Н	PASS
60.170	0.5	72.884	83.52	V	PASS



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75-110 GHz Test Mode: 00; Polarity: Horizontal

75-110 GHz Test Mode: 00; Polarity: Vertical



Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	AV Limit (dBuv/m)	Polarization	Result
81.541	0.5	74.862	83.52	Н	PASS
91.401	0.5	74.563	83.52	V	PASS

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6.4 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.10.5

Limit:

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

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

Remark: For measurement distance 1m, the filed strength doesn't exceed 63.52 dBuV/m

6.4.1 E.U.T. Operation

Operating Environment:

Temperature:	22 . 5 °C	Humidity:	49.7 % RH	Atmospheric Pressure:	1020	mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode _ Keep the EUT in continuously transmitting mode



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6.4.3 Test Setup Diagram





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6.4.4 Measurement Procedure and Data

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-1) anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum 2) value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to 3) heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold 4) Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could 5) be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, guasi-peak or average method as specified and then reported in a data sheet.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found 6) the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete. 7)

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



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Test Data: **Omnidirectional Radar**

Test Mode: 00; Polarity: Horizontal





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Test Mode: 00; Polarity: Vertical





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Upward Radar

Test Mode: 00; Polarity: Horizontal





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Test Mode: 00; Polarity: Vertical





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7 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2412004913AT.

EUT Constructional Details (EUT Photos) 8

Refer to External and Internal Photos for SZCR2412004913AT.

- End of the Report -



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