

Report No.: XEWM2309000462RG06

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TEST REPORT

Application No.: XEWM2309000462RG

Applicant: JL MARINE SYSTEMS, INC.

Address of Applicant: 9010 Palm River Road, Tampa, FL 33619, USA

Manufacturer: JL MARINE SYSTEMS, INC.

Address of Manufacturer: 9010 Palm River Road, Tampa, FL 33619, USA

EUT Description: Marine Tablet

Model No.: Vision 7

Trade Mark: Power-Pole

FCC ID: A7FVISION7

Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

Date of Receipt: 2023/09/14 **Date of Issue:** 2024/06/12

Test Result: PASS*

Authorized Signature:

Mus chen

Linus Chen Wireless Laboratory Manager



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Manuscription

**Manuscr

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



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1 Version

	Revision Record						
Version Chapter Date Modifier Remark							
01		2024/06/12		Original			

Prepared By	(Leah Chen) / Test Engineer		
Checked By	Snely Yao (Andy Yao) /Reviewer		



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2 General Information

2.1 Client Information

Applicant:	JL MARINE SYSTEMS, INC.		
Address of Applicant:	9010 Palm River Road, Tampa, FL 33619, USA		
Manufacturer:	JL MARINE SYSTEMS, INC.		
Address of Manufacturer:	9010 Palm River Road, Tampa, FL 33619, USA		

2.2 Test Facility

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

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410





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2.3 General Description of EUT

Marine Tablet								
Vision 7								
V3.0								
/ision7_20240522								
☐ External, ☑ Integr	ated							
WCDMA Band II:	1.96dBi	WCDMA Band IV:	2.34dBi					
WCDMA Band V:	1.11dBi							
LTE Band 2:	1.96dBi	LTE Band 4:	2.34dBi					
LTE Band 5:	1.11dBi	LTE Band 7:	2.24dBi					
LTE Band 12:	0.15dBi	LTE Band 13:	0.16dBi					
LTE Band 14:	-0.24dBi	LTE Band 17:	0.15dBi					
LTE Band 18:	1.11dBi	LTE Band 19:	0.9dBi					
LTE Band 25:	1.96dBi	LTE Band 26:	1.11dBi					
LTE Band 30:	2.31dBi	LTE Band 38:	2.14dBi					
LTE Band 41:	2.44dBi	LTE Band 66:	2.47dBi					
LTE Band 71:	-0.1dBi							
Bluetooth:	2.97dBi(Ant1)							
WIFI 2.4G:	2.97dBi(Ant1)							
5G WIFI(U-NII-1):	2.7dBi(Ant1)							
5G WIFI(U-NII-2A):	2.54dBi(Ant1);							
5G WIFI(U-NII-2C):	2.89dBi(Ant1)							
5G WIFI(U-NII-3):	2.41dBi(Ant1);							
Sprint1	0.8dBi(Ant1);							
	Vision 7 Power-Pole V3.0 Vision7_20240522 □ External, □ Integr WCDMA Band II: WCDMA Band V: LTE Band 2: LTE Band 5: LTE Band 12: LTE Band 18: LTE Band 18: LTE Band 30: LTE Band 30: LTE Band 71: Bluetooth: WIFI 2.4G: 5G WIFI(U-NII-1): 5G WIFI(U-NII-2A): 5G WIFI(U-NII-3):	Vision 7 Power-Pole V3.0 Vision7_20240522 □ External, □ Integrated WCDMA Band II: 1.96dBi WCDMA Band V: 1.11dBi LTE Band 2: 1.96dBi LTE Band 5: 1.11dBi LTE Band 12: 0.15dBi LTE Band 18: 1.11dBi LTE Band 30: 2.31dBi LTE Band 30: 2.31dBi LTE Band 41: 2.44dBi LTE Band 71: -0.1dBi Bluetooth: 2.97dBi(Ant1) WIFI 2.4G: 2.97dBi(Ant1) 5G WIFI(U-NII-1): 2.54dBi(Ant1) 5G WIFI(U-NII-2A): 2.89dBi(Ant1) 5G WIFI(U-NII-3): 2.41dBi(Ant1);	Vision 7 Power-Pole V3.0 Vision7_20240522 External, ☑ Integrated WCDMA Band II: 1.96dBi WCDMA Band IV: WCDMA Band V: 1.11dBi LTE Band 2: 1.96dBi LTE Band 4: LTE Band 5: 1.11dBi LTE Band 13: LTE Band 14: -0.24dBi LTE Band 17: LTE Band 18: 1.11dBi LTE Band 19: LTE Band 25: 1.96dBi LTE Band 26: LTE Band 30: 2.31dBi LTE Band 38: LTE Band 41: 2.44dBi LTE Band 66: LTE Band 71: -0.1dBi Bluetooth: 2.97dBi(Ant1) WIFI (U-NII-1): 2.7dBi(Ant1) 5G WIFI(U-NII-2A): 2.54dBi(Ant1); 5G WIFI(U-NII-2C): 2.89dBi(Ant1) 5G WIFI(U-NII-3): 2.41dBi(Ant1);					

Remark:

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)			Power density (mW/cm2)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
0.3-3.0	614	1.63	*(100)	6					
3.0-30	1842/f	4.89/f	*(900/f2)	6					
30-300	61.4	0.163	1.0	6					
300-1500	1	1	f/300	6					
1500-100,000 /		1	/ 5						
(B) Limits for General P	opulation/Uncontrolled	Exposure						
0.3-1.34	614	1.63	*(100)	30					
1.34-30	824/f	2.19/f	*(180/f2)	30					
30-300	27.5	0.073	0.2	30					
300-1500		1	f/1500	30					
1500-100,000	1	1	1.0	30					

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R²)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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^{*=}Plane-wave equivalent power density



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3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

WCDMA Band II 1852.4 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass WCDMA Band IV 1712.4 2.34 25.00 27.34 33.00 0.1078 1.0000 Pass WCDMA Band V 826.4 1.11 25.00 23.96 38.45 0.0812 0.5509 Pass LTE Band 2 1850.7 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 4 1710.7 2.34 25.00 27.34 30.00 0.1078 1.0000 Pass LTE Band 5 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 5 262.5 2.24 25.00 27.24 33.00 0.1054 1.0000 Pass LTE Band 12 699.7 0.15 25.00 23.00 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653	Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	conclusion
WCDMABand V 826.4 1.11 25.00 23.96 38.45 0.0812 0.5509 Pass LTE Band 2 1850.7 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 4 1710.7 2.34 25.00 27.34 30.00 0.1078 1.0000 Pass LTE Band 5 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 7 2502.5 2.24 25.00 27.24 33.00 0.1054 1.0000 Pass LTE Band 12 699.7 0.15 25.00 23.00 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 -0.24 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 16 815.5 0.15 25.00 23.00 34.77 0.0651	WCDMA Band II	1852.4	1.96	25.00	26.96	33.00	0.0988	1.0000	Pass
LTE Band 2 1850.7 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 4 1710.7 2.34 25.00 27.34 30.00 0.1078 1.0000 Pass LTE Band 5 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 7 250.25 2.24 25.00 27.24 33.00 0.1054 1.0000 Pass LTE Band 12 699.7 0.15 25.00 23.01 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 -0.24 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812<	WCDMA Band IV	1712.4	2.34	25.00	27.34	33.00	0.1078	1.0000	Pass
LTE Band 4 1710.7 2.34 25.00 27.34 30.00 0.1078 1.0000 Pass LTE Band 5 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 7 2502.5 2.24 25.00 27.24 33.00 0.1054 1.0000 Pass LTE Band 12 699.7 0.15 25.00 23.00 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 -0.24 25.00 22.61 34.77 0.0651 0.4710 Pass LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 826.5 1.11 25.00 23.96 38.45	WCDMA Band V	826.4	1.11	25.00	23.96	38.45	0.0812	0.5509	Pass
LTE Band 5 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 7 2502.5 2.24 25.00 27.24 33.00 0.1054 1.0000 Pass LTE Band 12 699.7 0.15 25.00 23.00 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 0.24 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 25 1852.5 1.96 25.00 23.96 NA 0.0812 0.5550 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 30 2307.5 2.31 21.50 23.96 NA 0.0812 0.5498 Pass LTE Band 38 2572.5 2.14 25.00 27.44 33.00 0.1030 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 67 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 2	1850.7	1.96	25.00	26.96	33.00	0.0988	1.0000	Pass
LTE Band 7 2502.5 2.24 25.00 27.24 33.00 0.1054 1.0000 Pass LTE Band 12 699.7 0.15 25.00 23.00 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 -0.24 25.00 22.61 34.77 0.0595 0.5270 Pass LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 29 832.5 0.90 25.00 23.75 38.45 0.0774 0.5550 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA	LTE Band 4	1710.7	2.34	25.00	27.34	30.00	0.1078	1.0000	Pass
LTE Band 12 699.7 0.15 25.00 23.00 34.77 0.0651 0.4665 Pass LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 -0.24 25.00 22.61 34.77 0.0595 0.5270 Pass LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 826.5 1.11 25.00 23.96 NA 0.0812 0.5510 Pass LTE Band 19 832.5 0.90 25.00 23.75 38.45 0.0812 0.5510 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 N	LTE Band 5	824.7	1.11	25.00	23.96	38.45	0.0812	0.5498	Pass
LTE Band 13 779.5 0.16 25.00 23.01 34.77 0.0653 0.5197 Pass LTE Band 14 790.5 -0.24 25.00 22.61 34.77 0.0595 0.5270 Pass LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 29 (824-830) 832.5 0.90 25.00 23.75 38.45 0.0774 0.5550 Pass LTE Band 29 (814-824) 814.7 1.11 25.00 23.96 33.00 0.0988 1.0000 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 30 2307.5 2.31 21.50 23.81 2	LTE Band 7	2502.5	2.24	25.00	27.24	33.00	0.1054	1.0000	Pass
LTE Band 14 790.5 -0.24 25.00 22.61 34.77 0.0595 0.5270 Pass LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 19 832.5 0.90 25.00 23.75 38.45 0.0774 0.5550 Pass LTE Band 25 1852.5 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 30 2307.5 2.31 21.50 23.96 NA 0.0812 0.5498 Pass LTE Band 38 2572.5 2.14 25.00 27.14 33.00 <td< td=""><td>LTE Band 12</td><td>699.7</td><td>0.15</td><td>25.00</td><td>23.00</td><td>34.77</td><td>0.0651</td><td>0.4665</td><td>Pass</td></td<>	LTE Band 12	699.7	0.15	25.00	23.00	34.77	0.0651	0.4665	Pass
LTE Band 17 706.5 0.15 25.00 23.00 34.77 0.0651 0.4710 Pass LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 19 832.5 0.90 25.00 23.75 38.45 0.0774 0.5550 Pass LTE Band 25 1852.5 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.44 33.00	LTE Band 13	779.5	0.16	25.00	23.01	34.77	0.0653	0.5197	Pass
LTE Band 18 (815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 19 832.5 1.96 25.00 23.96 38.45 0.0774 0.5550 Pass LTE Band 25 1852.5 1.96 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 38 2572.5 2.14 25.00 27.14 33.00 0.1030 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 14	790.5	-0.24	25.00	22.61	34.77	0.0595	0.5270	Pass
(815-824) 817.5 1.11 25.00 23.96 NA 0.0812 0.5450 Pass LTE Band 18 (824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 19 832.5 0.90 25.00 23.75 38.45 0.0774 0.5550 Pass LTE Band 25 1852.5 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.14 33.00 0.1030 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 <t< td=""><td>LTE Band 17</td><td>706.5</td><td>0.15</td><td>25.00</td><td>23.00</td><td>34.77</td><td>0.0651</td><td>0.4710</td><td>Pass</td></t<>	LTE Band 17	706.5	0.15	25.00	23.00	34.77	0.0651	0.4710	Pass
(824-830) 826.5 1.11 25.00 23.96 38.45 0.0812 0.5510 Pass LTE Band 19 832.5 0.90 25.00 23.75 38.45 0.0774 0.5550 Pass LTE Band 25 1852.5 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 41 2557.5 2.14 25.00 27.14 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.06		817.5	1.11	25.00	23.96	NA	0.0812	0.5450	Pass
LTE Band 25 1852.5 1.96 25.00 26.96 33.00 0.0988 1.0000 Pass LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 38 2572.5 2.14 25.00 27.14 33.00 0.1030 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.		826.5	1.11	25.00	23.96	38.45	0.0812	0.5510	Pass
LTE Band 26 (814-824) 814.7 1.11 25.00 23.96 NA 0.0812 0.5431 Pass LTE Band 26 (824-849) 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 38 2572.5 2.14 25.00 27.14 33.00 0.1030 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 27.47 30.00 0.1111 1.0000 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 19	832.5	0.90	25.00	23.75	38.45	0.0774	0.5550	Pass
State	LTE Band 25	1852.5	1.96	25.00	26.96	33.00	0.0988	1.0000	Pass
(824-849) 824.7 1.11 25.00 23.96 38.45 0.0812 0.5498 Pass LTE Band 30 2307.5 2.31 21.50 23.81 23.98 0.0478 1.0000 Pass LTE Band 38 2572.5 2.14 25.00 27.14 33.00 0.1030 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass		814.7	1.11	25.00	23.96	NA	0.0812	0.5431	Pass
LTE Band 38 2572.5 2.14 25.00 27.14 33.00 0.1030 1.0000 Pass LTE Band 41 2557.5 2.44 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0122 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass		824.7	1.11	25.00	23.96	38.45	0.0812	0.5498	Pass
LTE Band 41 2557.5 2.44 25.00 27.44 33.00 0.1103 1.0000 Pass LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 30	2307.5	2.31	21.50	23.81	23.98	0.0478	1.0000	Pass
LTE Band 66 1710.7 2.47 25.00 27.47 30.00 0.1111 1.0000 Pass LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 38	2572.5	2.14	25.00	27.14	33.00	0.1030	1.0000	Pass
LTE Band 71 665.5 -0.10 25.00 22.75 34.77 0.0615 0.4437 Pass Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 41	2557.5	2.44	25.00	27.44	33.00	0.1103	1.0000	Pass
Bluetooth 2402.0 2.97 10.00 12.97 30.00 0.0039 1.0000 Pass 2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 66	1710.7	2.47	25.00	27.47	30.00	0.1111	1.0000	Pass
2.4GWIFI 2412.0 2.97 18.00 20.97 30.00 0.0249 1.0000 Pass 5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	LTE Band 71	665.5	-0.10	25.00	22.75	34.77	0.0615	0.4437	Pass
5GWIFI 5180.0 2.89 15.00 17.89 30.00 0.0122 1.0000 Pass	Bluetooth	2402.0	2.97	10.00	12.97	30.00	0.0039	1.0000	Pass
557711	2.4GWIFI	2412.0	2.97	18.00	20.97	30.00	0.0249	1.0000	Pass
Sprit1 921.25 0.80 11.00 9.65 30.00 0.0030 0.6142 Pass	5GWIFI	5180.0	2.89	15.00	17.89	30.00	0.0122	1.0000	Pass
	Sprit1	921.25	0.80	11.00	9.65	30.00	0.0030	0.6142	Pass



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3.1.4 Exposure calculations for multiple sources

When a number of sources at different frequencies, and/or broadband sources, contribute to the total exposure, it becomes necessary to weigh each contribution relative to the MPE in accordance with the provisions of Table(A) and Table(B). To comply with the MPE, the fraction of the MPE in terms of E2, H2 (or power density) incurred within each frequency interval should be determined and the sum of all such fractions should not exceed unity.

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^{n} \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	WWAN + Bluetooth
2	WWAN + WiFi 2.4G
3	WWAN + WiFi 5G
4	WWAN+Sprint1

No.	Mode	Power Density (mW/cm²)	MPE Limit (mW/cm²)	Result Ratio	Total Ratio	Limit	Result
1	LTE Band 26 (814-824)	0.0812	0.5431	0.1495	0.1534	1.0000	Pass
	Bluetooth	0.0039	1	0.0039			. 450
2	LTE Band 26 (814-824)	0.0812	0.5431	0.1495	0.1744	1.0000	Pass
	WiFi 2.4G	0.0249	1	0.0249			
3	LTE Band 26 (814-824)	0.0812	0.5431	0.1495	0.1617	1.0000	Pass
Ŭ	WiFi 5G	0.0122	1	0.0122	• • • • • • • • • • • • • • • • • • • •		. 5.55
4	LTE Band 26 (814-824)	0.0812	0.5431	0.1495	0.1544	1.0000	Pass
	Sprint1	0.0030	0.6142	0.0049			

Remark: This WWAN Band was recalculated on worst Band.

---End of Report---



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