TEST REPORT

Application No.:	SZCR2602000583AT
Applicant:	Emlid Tech Kft.
Address of Applicant:	Esztergomi way 31-39, HUB 3 building, 5 floor, 1138 Budapest, Hungary
Manufacturer:	NexPCB Limited
Address of Manufacturer:	Room 605A,TCL Industrial Centre, 8 Tai Chung Road, Tsuen Wan,Hong Kong
Factory:	1. Ningbo High-tech Zone Ladder Science co., Ltd 2. PT. NEXFACTORY ERA XCELLENCE
Address of Factory:	1. No.4-1,5-1,6-1, Building 3, No. 3, Lane 215, Qingyi Road, Ningbo High-tech Zone, Zhejiang Province, China; 2. Jalan T ekno 3, Blok A8-K, Kawasan Industri Jababeka Phase 3. Desa/Kelurahan Pasirgombong, Kec. Cikarang Utara, Kab. Bekasi.Provinsi Jawa Barat, Indonesia
Equipment Under Test (EUT):	
EUT Name:	All-band RTK GNSS receiver
Model No.:	RRS-4P, RRS-4
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark:	EMLID
FCC ID:	2BAYERCH4
Standard(s) :	47 CFR Part 22, 47 CFR Part 74, 47 CFR Part 80, 47 CFR Part 90,
Date of Receipt:	2026-02-05
Date of Test:	2026-02-05 to 2026-02-09
Date of Issue:	2026-02-09
Test Result:	Pass*

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2026-02-09		Original

Authorized for issue by:				
		Edison Li **Edison Li /Project Engineer**		
		Eric Fu **Eric Fu /Reviewer**		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 22, Part 74, Part 80, Part 90	N/A	47 CFR Part 22.365, 47 CFR Part 74.30, 47 CFR Part 80.3(e), 47 CFR Part 90.205(g,h),	Pass

Radio Spectrum Matter Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Spurious Emission	47 CFR FCC Part 2, Part22, Part74, Part80, Part90	ANSI/TIA-603-E:2016 ANSI C63.26-2015	47 CFR FCC Part 2.1051, Part22.359, Part74.462(c), Part80.211(c), Part90.210	Pass

N/A: Not Applicable.

Remark:

Model No.: RRS-4P, RRS-4

Only the model RRS-4P was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on : RRS-4P includes cameras, RRS-4 does not have a camera.

This report is prepared for FCC class II permissive change to install the granted module(FCC ID:2BAYEWL1, Granted on 09/29/2025) into a host product and also change the antenna gains.

Therefore in this report Radiated Spurious Emission was fully retested on model RRS-4P and shown the data in this report.

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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery 7.2V which charged by USB port
Frequency Range:	410.125MHz-469.125MHz
Modulation Type:	GMSK
Channel separation:	12.5KHz/25KHz
Rate output Power:	500mW/1000mW/2000mW
Antenna Type:	Monopole Antenna
Antenna Gain:	0dBi

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.

Channel Lists

Channel	Frequency	BW, KHz	Modulation	Rated Power
1	410.125	12.5/25.0	GMSK	500/1000/2000 mW
2	411.125	12.5/25.0	GMSK	500/1000/2000 mW
3	412.125	12.5/25.0	GMSK	500/1000/2000 mW
4	413.125	12.5/25.0	GMSK	500/1000/2000 mW
5	414.125	12.5/25.0	GMSK	500/1000/2000 mW
6	415.125	12.5/25.0	GMSK	500/1000/2000 mW
7	416.125	12.5/25.0	GMSK	500/1000/2000 mW
8	417.125	12.5/25.0	GMSK	500/1000/2000 mW
9	418.125	12.5/25.0	GMSK	500/1000/2000 mW
10	419.125	12.5/25.0	GMSK	500/1000/2000 mW
11	420.125	12.5/25.0	GMSK	500/1000/2000 mW
12	421.125	12.5/25.0	GMSK	500/1000/2000 mW
13	422.125	12.5/25.0	GMSK	500/1000/2000 mW
14	423.125	12.5/25.0	GMSK	500/1000/2000 mW
15	424.125	12.5/25.0	GMSK	500/1000/2000 mW
16	425.125	12.5/25.0	GMSK	500/1000/2000 mW
17	426.125	12.5/25.0	GMSK	500/1000/2000 mW
18	427.125	12.5/25.0	GMSK	500/1000/2000 mW
19	428.125	12.5/25.0	GMSK	500/1000/2000 mW
20	429.125	12.5/25.0	GMSK	500/1000/2000 mW
21	430.125	12.5/25.0	GMSK	500/1000/2000 mW
22	431.125	12.5/25.0	GMSK	500/1000/2000 mW

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23	432.125	12.5/25.0	GMSK	500/1000/2000 mW
24	433.125	12.5/25.0	GMSK	500/1000/2000 mW
25	434.125	12.5/25.0	GMSK	500/1000/2000 mW
26	435.125	12.5/25.0	GMSK	500/1000/2000 mW
27	436.125	12.5/25.0	GMSK	500/1000/2000 mW
28	437.125	12.5/25.0	GMSK	500/1000/2000 mW
29	438.125	12.5/25.0	GMSK	500/1000/2000 mW
30	439.125	12.5/25.0	GMSK	500/1000/2000 mW
31	440.125	12.5/25.0	GMSK	500/1000/2000 mW
32	441.125	12.5/25.0	GMSK	500/1000/2000 mW
33	442.125	12.5/25.0	GMSK	500/1000/2000 mW
34	443.125	12.5/25.0	GMSK	500/1000/2000 mW
35	444.125	12.5/25.0	GMSK	500/1000/2000 mW
36	445.125	12.5/25.0	GMSK	500/1000/2000 mW
37	446.125	12.5/25.0	GMSK	500/1000/2000 mW
38	447.125	12.5/25.0	GMSK	500/1000/2000 mW
39	448.125	12.5/25.0	GMSK	500/1000/2000 mW
40	449.125	12.5/25.0	GMSK	500/1000/2000 mW
41	450.125	12.5/25.0	GMSK	500/1000/2000 mW
42	451.125	12.5/25.0	GMSK	500/1000/2000 mW
43	452.125	12.5/25.0	GMSK	500/1000/2000 mW
44	453.125	12.5/25.0	GMSK	500/1000/2000 mW
45	454.125	12.5/25.0	GMSK	500/1000/2000 mW
46	455.125	12.5/25.0	GMSK	500/1000/2000 mW
47	456.125	12.5/25.0	GMSK	500/1000/2000 mW
48	457.125	12.5/25.0	GMSK	500/1000/2000 mW
49	458.125	12.5/25.0	GMSK	500/1000/2000 mW
50	459.125	12.5/25.0	GMSK	500/1000/2000 mW
51	460.125	12.5/25.0	GMSK	500/1000/2000 mW
52	461.125	12.5/25.0	GMSK	500/1000/2000 mW
53	462.125	12.5/25.0	GMSK	500/1000/2000 mW
54	463.125	12.5/25.0	GMSK	500/1000/2000 mW
55	464.125	12.5/25.0	GMSK	500/1000/2000 mW
56	465.125	12.5/25.0	GMSK	500/1000/2000 mW
57	466.125	12.5/25.0	GMSK	500/1000/2000 mW

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58	467.125	12.5/25.0	GMSK	500/1000/2000 mW
59	468.125	12.5/25.0	GMSK	500/1000/2000 mW
60	469.125	12.5/25.0	GMSK	500/1000/2000 mW

Test Channel

Channel	Frequency	BW, KHz	Modulation	Rated Power
1	410.125	12.5/25.0	GMSK	500/1000/2000 mW
41	450.125	12.5/25.0	GMSK	500/1000/2000 mW
47	456.125	12.5/25.0	GMSK	500/1000/2000 mW
60	469.125	12.5/25.0	GMSK	500/1000/2000 mW

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF Cable	SGS	N/A(cable loss:0.6dB)	N/A
Type-C cable	SGS	/	/
Laptop	Lenovo	L480	REF. No.SEA18C00E
Adapter	Apple	A1443	REF. No.SEA05D08A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:
The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (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:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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

Radiated Spurious Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025/11/17	2027/11/16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023/6/19	2026/6/18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025/7/25	2026/7/24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025/8/29	2027/8/28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026/2/2	2027/2/1
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	N/A	N/A
Band filter	N/A	N/A	SEM023-01	N/A	N/A
Alternative Antenna	SCHWARZBECK	VULB9168	SEM003-44	2025/5/28	2027/5/27
Alternative Antenna	ETS-LINDGREN	3117	SEM003-11	2025/9/13	2027/9/12

Radiated Spurious Emissions Above 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SEM008-04	2026/2/2	2027/2/1
Horn Antenna (18-26.5GHz)	ETS-LINDGREN	3160-09	SEM003-12	2024/8/3	2026/8/2
Horn Antenna (26.5GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2024/8/3	2026/8/2
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SEM003-54	2025/3/6	2027/3/5
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SEM003-15	2025/7/22	2027/7/21
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025/01/06	2028/01/05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025/7/23	2026/7/22
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025/11/17	2027/11/16
Band filter	N/A	N/A	SEM023-01	N/A	N/A
Alternative Antenna	SCHWARZBECK	VULB9168	SEM003-44	2025/8/29	2027/8/28
Alternative Antenna	ETS-LINDGREN	3117	SEM003-11	2025/9/13	2027/9/12

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General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025/07/23	2026/07/22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025/07/23	2026/07/22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025/03/03	2026/03/02

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 22.365, Part74.30, Part80.3, Part90.205

6.1.2 Conclusion

22.365 Requirement:

Licensees that own their antenna structures must not allow these antenna structures to become a hazard to air navigation. In general, antenna structure owners are responsible for registering antenna structures with the FCC if required by part 17 of this chapter, and for installing and maintaining any required marking and lighting. However, in the event of default of this responsibility by an antenna structure owner, each FCC permittee or licensee authorized to use an affected antenna structure will be held responsible by the FCC for ensuring that the antenna structure continues to meet the requirements of part 17 of this chapter. See §17.6 of this chapter.

(a) Marking and lighting. Antenna structures must be marked, lighted and maintained in accordance with part 17 of this chapter and all applicable rules and requirements of the Federal Aviation Administration.

(b) Maintenance contracts. Antenna structure owners (or licensees and permittees, in the event of default by an antenna structure owner) may enter into contracts with other entities to monitor and carry out necessary maintenance of antenna structures. Antenna structure owners (or licensees and permittees, in the event of default by an antenna structure owner) that make such contractual arrangements continue to be responsible for the maintenance of antenna structures in regard to air navigation safety.

74.30 Requirement:

The provisions of part 17 of the FCC rules (Construction, Marking, and Lighting of Antenna Structures) require certain antenna structures to be painted and/or lighted in accordance with the provisions of §§17.47 through 17.56 of the FCC rules.

80.3 Requirement:

(e) Part 17. This part contains requirements for the construction, marking and lighting of antenna towers, and the environmental notification process that must be completed before filing certain antenna structure registration applications.

90.205 Requirement:

(g) 421-430 MHz. Limitations on power and antenna heights are specified in §90.279.

(h) 450-470 MHz. (1) The maximum allowable station effective radiated power (ERP) is dependent upon the station's antenna HAAT and required service area and will be authorized in accordance with table 2. Applicants requesting an ERP in excess of that listed in table 2 must submit an engineering analysis based upon generally accepted engineering practices and standards that includes coverage contours to demonstrate that the requested station parameters will not produce coverage in excess of that which the applicant requires.

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(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 2 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 39 dBu at any point along the edge of the requested service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) An applicant for a station with a service area radius greater than 32 km (20 mi) must justify the requested service area radius, which may be authorized only in accordance with table 2, note 4. For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

EUT Antenna:

Antenna location: Refer to Appendix(Internal photos)

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7 Radio Spectrum Matter Test Results

7.1 Radiated Spurious Emissions

Test Requirement	47 CFR FCC Part2.1051 & FCC Part22.359 & FCC Part74.462 & FCC Part 80.211 & FCC Part90.210;
Test Method:	ANSI/TIA-603-E:2016; ANSI C63.4.2014; TIA-102 CCAA-A; TIA-102 CCAB-D; TIA-102 CCAA-D; ANSI C63.26-2015
Measurement Distance:	3m
Limit:	

For FCC Part 22.359:

The rules in this section govern the spectral characteristics of emissions in the Public Mobile Services, except for the Air-Ground Radiotelephone Service (see §22.861, instead) and the Cellular Radiotelephone Service (see §22.917, instead).

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 30 kHz or more. In the 60 kHz bands immediately outside and adjacent to the authorized frequency range or channel, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 30 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(c) Alternative out of band emission limit. Licensees in the Public Mobile Services may establish an alternative out of band emission limit to be used at specified frequencies (band edges) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in any of the Public Mobile Services results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.

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For FCC Part 74.462:

Frequencies	Authorized bandwidth (kHz)	Maximum frequency deviation[1] (kHz)	Type of emission[2]
MHz:			
25.87 to 26.03 26.07 to 26.47 152.8625 to 153.3575[3]	40 20 30/60	10 5 5/10	Frequencies 25.87 to 153.3575 MHz: A3E, F1E, F3E, F9E.
160.860 to 161.400	60	10	
161.625 to 161.775	30	5	
166.25 and 170.154	12.5/25	5	
450.00625 to 450.025 450.98125 to 450.99375 455.00625 to 455.025 455.98125 to 455.99375 Up to 12.5 1.5	Frequencies 160.860 to 455.950 MHz: A1A, A1B, A1D, A1E, A2A, A2B, A2D, A2E, A3E, F1A, F1B, F1D, F1E, F2A, F2B, F2D, F2E, F3E, F9E		
450.03125 to 450.61875			
455.03125 to 455.61875	Up to 25	5	
450.6375 to 450.8625			
455.6375 to 455.8625	25-50	10	
450.900, 450.950			
455.900, 455.950	50-100	35	

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For FCC Part 80.211:

(e) The mean power of EPIRBs operating on 121.500 MHz, 243.000 MHz and 406.0-406.1 MHz must be as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, up to and including 100 percent of the authorized bandwidth: At least 25 dB;

(2) On any frequency removed from the assigned frequency by more than 100 percent: at least 30 dB.

(f) The mean power when using emissions other than those in paragraphs (a), (b), (c) and (d) of this section:

(1) On any frequency removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: At least 25 dB;

(2) On any frequency removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: At least 35 dB; and

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 plus $10\log_{10}$ (mean power in watts) dB.

For FCC Part 90.210:

Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
Below 25[1]	A or B	A or C
25-50	B	C
72-76	B	C
150-174[2]	B, D, or E	C, D or E
150 paging only	B	C
220-222	F	F
421-512[2 5]	B, D, or E	C, D, or E
450 paging only	B	G
806-809/851-854[6]	B	H
809-824/854-869[3 5]	B	G
896-901/935-940	I	J
902-928	K	K
929-930	B	G
4940-4990 MHz	L or M	L or M
5850-5925[4]		
All other bands	B	C

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(b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(c) Emission Mask C. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier output power (P) as follows:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5 kHz, but not more than 10 kHz: At least 83 log (fd/5) dB;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 10 kHz, but not more than 250 percent of the authorized bandwidth: At least 29 log (fd2/11) dB or 50 dB, whichever is the lesser attenuation;

(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

(4) In the 1427-1432 MHz band, licensees are encouraged to take all reasonable steps to ensure that unwanted emissions power does not exceed the following levels in the 1400-1427 MHz band:

(i) For stations of point-to-point systems in the fixed service: −45 dBW/27 MHz.

(ii) For stations in the mobile service: −60 dBW/27 MHz.

(d) Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f0 to 5.625 kHz removed from f0: Zero dB.

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least 7.27(fd−2.88 kHz) dB.

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz: At least 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

(e) Emission Mask E—6.25 kHz or less channel bandwidth equipment. For transmitters designed to operate with a 6.25 kHz or less bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth f0 to 3.0 kHz removed from f0: Zero dB.

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(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 3.0 kHz but no more than 4.6 kHz: At least 30 + 16.67(fd−3 kHz) or 55 + 10 log (P) or 65 dB, whichever is the lesser attenuation.

(3) On any frequency removed from the center of the authorized bandwidth by more than 4.6 kHz: At least 55 + 10 log (P) or 65 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

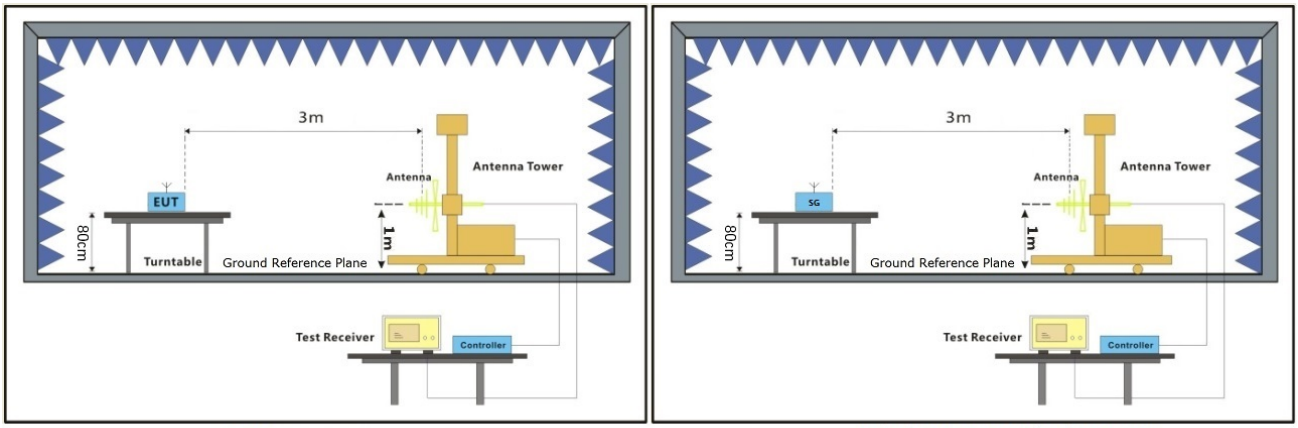
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 50.4 % RH Atmospheric Pressure: 1020 mbar

Test mode: 01: Tx mode, Keep the EUT in transmitting mode.

7.1.2 Test Setup Diagram



EUT Substiute Antenna+Signal Generator

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7.1.3 Measurement Procedure and Data

Test Procedure:

(1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
(2)The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
(3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
(4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
(5)The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
(6)The transmitter shall than be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
(7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
(8)The maximum signal level detected by the measuring receiver shall be noted.
(9)The measurement shall be repeated with the test antenna set to horizontal polarization.
(10) Replace the antenna with a proper Antenna (substitution antenna).
(11)The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
(12)The substitution antenna shall be connected to a calibrated signal generator.
(13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
(14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
(15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
(16)The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
(17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

The detailed test data see: Appendix FCC data.

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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details

Please Refer to external and internal photos for details.

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9 Appendix

1.Radiated Spurious Emission Below 1GHz

410.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
44.12	-67.98	-13.00	-54.98	-50.93	0.44	-14.46	Vertical	Pass
61.56	-66.15	-13.00	-53.15	-59.51	0.51	-3.98	Vertical	Pass
70.83	-75.04	-13.00	-62.04	-63.36	0.56	-8.97	Vertical	Pass
170.20	-77.50	-13.00	-64.50	-77.08	0.80	2.53	Vertical	Pass
537.59	-70.79	-13.00	-57.79	-73.54	1.55	6.45	Vertical	Pass
787.85	-67.01	-13.00	-54.01	-67.94	1.51	4.59	Vertical	Pass
40.70	-75.86	-13.00	-62.86	-59.63	0.42	-13.66	Horizontal	Pass
47.00	-76.27	-13.00	-63.27	-73.31	0.50	-0.31	Horizontal	Pass
58.61	-80.08	-13.00	-67.08	-73.52	0.60	-3.81	Horizontal	Pass
145.86	-78.09	-13.00	-65.09	-76.44	0.75	1.25	Horizontal	Pass
375.94	-74.43	-13.00	-61.43	-69.98	1.52	-0.78	Horizontal	Pass
782.35	-62.67	-13.00	-49.67	-63.72	1.50	4.70	Horizontal	Pass

450.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
42.15	-69.88	-13.00	-56.88	-52.56	0.43	-14.74	Vertical	Pass
61.78	-66.81	-13.00	-53.81	-60.18	0.51	-3.97	Vertical	Pass
70.83	-75.50	-13.00	-62.50	-63.82	0.56	-8.97	Vertical	Pass
87.42	-77.79	-13.00	-64.79	-77.54	0.63	2.53	Vertical	Pass
175.04	-78.69	-13.00	-65.69	-88.84	1.40	13.70	Vertical	Pass
771.45	-67.12	-13.00	-54.12	-68.41	1.48	4.92	Vertical	Pass
30.42	-77.03	-13.00	-64.03	-57.77	0.36	-16.74	Horizontal	Pass
41.57	-76.47	-13.00	-63.47	-73.79	0.49	-0.04	Horizontal	Pass
47.16	-75.44	-13.00	-62.44	-68.38	0.58	-4.33	Horizontal	Pass
156.46	-77.74	-13.00	-64.74	-76.12	0.77	1.30	Horizontal	Pass
360.45	-75.09	-13.00	-62.09	-70.49	1.51	-0.94	Horizontal	Pass
774.16	-63.34	-13.00	-50.34	-64.57	1.49	4.87	Horizontal	Pass

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456.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
44.12	-68.34	-13.00	-55.34	-51.29	0.44	-14.46	Vertical	Pass
61.78	-66.64	-13.00	-53.64	-60.01	0.51	-3.97	Vertical	Pass
70.34	-75.05	-13.00	-62.05	-63.34	0.56	-9.00	Vertical	Pass
87.73	-77.39	-13.00	-64.39	-77.13	0.64	2.53	Vertical	Pass
172.00	-77.46	-13.00	-64.46	-87.67	1.40	13.76	Vertical	Pass
776.88	-65.42	-13.00	-52.42	-66.59	1.49	4.81	Vertical	Pass
41.57	-76.66	-13.00	-63.66	-60.69	0.42	-13.40	Horizontal	Pass
47.49	-76.78	-13.00	-63.78	-73.79	0.50	-0.33	Horizontal	Pass
58.61	-80.92	-13.00	-67.92	-74.36	0.60	-3.81	Horizontal	Pass
155.91	-77.67	-13.00	-64.67	-76.05	0.77	1.30	Horizontal	Pass
374.62	-75.53	-13.00	-62.53	-71.07	1.52	-0.79	Horizontal	Pass
771.45	-63.06	-13.00	-50.06	-64.35	1.48	4.92	Horizontal	Pass

469.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
42.01	-68.08	-13.00	-55.08	-50.74	0.43	-14.76	Vertical	Pass
43.81	-67.83	-13.00	-54.83	-60.36	0.45	-4.87	Vertical	Pass
61.56	-66.69	-13.00	-53.69	-54.48	0.54	-9.53	Vertical	Pass
71.08	-74.79	-13.00	-61.79	-74.57	0.60	2.53	Vertical	Pass
88.03	-76.67	-13.00	-63.67	-88.59	1.37	15.44	Vertical	Pass
782.35	-66.92	-13.00	-53.92	-67.97	1.50	4.70	Vertical	Pass
41.71	-76.90	-13.00	-63.90	-60.97	0.42	-13.36	Horizontal	Pass
47.00	-75.64	-13.00	-62.64	-72.68	0.50	-0.31	Horizontal	Pass
58.82	-79.53	-13.00	-66.53	-72.98	0.60	-3.80	Horizontal	Pass
104.17	-74.91	-13.00	-61.91	-73.13	0.67	1.04	Horizontal	Pass
167.24	-77.63	-13.00	-64.63	-71.18	1.44	-2.87	Horizontal	Pass
833.32	-63.15	-13.00	-50.15	-63.07	1.61	3.68	Horizontal	Pass

Note: Margin = Emission level – Limit.
All modes have been tested, only record the worst test result.

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2.Radiated Spurious Emission Above 1GHz

410.125 TX Bandwidth:12.5KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1638.6	-63.66	-20.00	-43.66	-65.89	3.30	5.53	Horizontal	Pass
2050.0	-67.04	-20.00	-47.04	-68.44	3.34	4.74	Horizontal	Pass
4096.9	-50.08	-20.00	-30.08	-54.71	4.32	8.95	Horizontal	Pass
1638.6	-65.08	-20.00	-45.08	-67.31	3.30	5.53	Vertical	Pass
2055.2	-65.76	-20.00	-45.76	-67.17	3.34	4.75	Vertical	Pass
4096.9	-55.67	-20.00	-35.67	-60.30	4.32	8.95	Vertical	Pass

450.125 TX Bandwidth:12.5KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1800.4	-60.20	-20.00	-40.20	-62.00	3.32	5.12	Horizontal	Pass
2252.5	-54.43	-20.00	-34.43	-56.27	3.39	5.23	Horizontal	Pass
4055.4	-51.40	-20.00	-31.40	-56.06	4.24	8.90	Horizontal	Pass
1800.4	-58.91	-20.00	-38.91	-60.71	3.32	5.12	Vertical	Pass
2252.5	-54.69	-20.00	-34.69	-56.53	3.39	5.23	Vertical	Pass
4055.4	-43.65	-20.00	-23.65	-48.31	4.24	8.90	Vertical	Pass

456.125 TX Bandwidth:12.5KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1823.5	-55.38	-20.00	-35.38	-57.12	3.32	5.06	Horizontal	Pass
2281.3	-56.44	-20.00	-36.44	-58.35	3.39	5.30	Horizontal	Pass
4107.3	-39.45	-20.00	-19.45	-44.07	4.34	8.96	Horizontal	Pass
1823.5	-58.63	-20.00	-38.63	-60.37	3.32	5.06	Vertical	Pass
2281.3	-54.55	-20.00	-34.55	-56.46	3.39	5.30	Vertical	Pass
4107.3	-41.40	-20.00	-21.40	-46.02	4.34	8.96	Vertical	Pass

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469.125 TX Bandwidth:12.5KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1875.3	-54.91	-20.00	-34.91	-56.52	3.32	4.93	Horizontal	Pass
2346.1	-54.08	-20.00	-34.08	-56.12	3.41	5.45	Horizontal	Pass
4223.9	-41.79	-20.00	-21.79	-46.29	4.59	9.09	Horizontal	Pass
1406.5	-50.10	-20.00	-30.10	-52.19	3.20	5.29	Vertical	Pass
2346.1	-56.14	-20.00	-36.14	-58.18	3.41	5.45	Vertical	Pass
4223.9	-45.88	-20.00	-25.88	-50.38	4.59	9.09	Vertical	Pass

410.125 TX Bandwidth:12.5KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1651.1	-70.99	-20.00	-50.99	-73.18	3.31	5.50	Horizontal	Pass
2065.7	-68.73	-20.00	-48.73	-70.16	3.35	4.78	Horizontal	Pass
4096.9	-59.64	-20.00	-39.64	-64.27	4.32	8.95	Horizontal	Pass
1685.1	-69.70	-20.00	-49.70	-71.80	3.31	5.41	Vertical	Pass
2065.7	-68.57	-20.00	-48.57	-70.00	3.35	4.78	Vertical	Pass
4096.9	-58.99	-20.00	-38.99	-63.62	4.32	8.95	Vertical	Pass

450.125 TX Bandwidth:12.5KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1800.4	-59.84	-20.00	-39.84	-61.64	3.32	5.12	Horizontal	Pass
2252.5	-60.97	-20.00	-40.97	-62.81	3.39	5.23	Horizontal	Pass
4055.4	-47.01	-20.00	-27.01	-51.67	4.24	8.90	Horizontal	Pass
1800.4	-63.19	-20.00	-43.19	-64.99	3.32	5.12	Vertical	Pass
2252.5	-55.26	-20.00	-35.26	-57.10	3.39	5.23	Vertical	Pass
4055.4	-50.69	-20.00	-30.69	-55.35	4.24	8.90	Vertical	Pass

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456.125 TX Bandwidth:12.5KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1823.5	-59.11	-20.00	-39.11	-60.85	3.32	5.06	Horizontal	Pass
2281.3	-58.97	-20.00	-38.97	-60.88	3.39	5.30	Horizontal	Pass
4107.3	-48.55	-20.00	-28.55	-53.17	4.34	8.96	Horizontal	Pass
1367.7	-58.14	-20.00	-38.14	-60.02	3.16	5.04	Vertical	Pass
2281.3	-58.97	-20.00	-38.97	-60.88	3.39	5.30	Vertical	Pass
4107.3	-44.92	-20.00	-24.92	-49.54	4.34	8.96	Vertical	Pass

469.125 TX Bandwidth:12.5KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.5	-57.36	-20.00	-37.36	-59.45	3.20	5.29	Horizontal	Pass
2346.1	-59.18	-20.00	-39.18	-61.22	3.41	5.45	Horizontal	Pass
4223.9	-47.28	-20.00	-27.28	-51.78	4.59	9.09	Horizontal	Pass
1406.5	-49.15	-20.00	-29.15	-51.24	3.20	5.29	Vertical	Pass
2346.1	-58.14	-20.00	-38.14	-60.18	3.41	5.45	Vertical	Pass
4223.9	-45.19	-20.00	-25.19	-49.69	4.59	9.09	Vertical	Pass

410.125 TX Bandwidth:12.5KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1597.4	-69.06	-20.00	-49.06	-71.39	3.30	5.63	Horizontal	Pass
2055.2	-67.29	-20.00	-47.29	-68.70	3.34	4.75	Horizontal	Pass
4096.9	-58.03	-20.00	-38.03	-62.66	4.32	8.95	Horizontal	Pass
1597.4	-67.12	-20.00	-47.12	-69.45	3.30	5.63	Vertical	Pass
2092.2	-68.77	-20.00	-48.77	-70.26	3.35	4.84	Vertical	Pass
4096.9	-59.01	-20.00	-39.01	-63.64	4.32	8.95	Vertical	Pass

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450.125 TX Bandwidth:12.5KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1800.4	-64.34	-20.00	-44.34	-66.14	3.32	5.12	Horizontal	Pass
2252.5	-61.66	-20.00	-41.66	-63.50	3.39	5.23	Horizontal	Pass
4055.4	-53.92	-20.00	-33.92	-58.58	4.24	8.90	Horizontal	Pass
1800.4	-64.63	-20.00	-44.63	-66.43	3.32	5.12	Vertical	Pass
2252.5	-58.35	-20.00	-38.35	-60.19	3.39	5.23	Vertical	Pass
4055.4	-50.74	-20.00	-30.74	-55.40	4.24	8.90	Vertical	Pass

456.125 TX Bandwidth:12.5KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1823.5	-61.30	-20.00	-41.30	-63.04	3.32	5.06	Horizontal	Pass
2281.3	-60.44	-20.00	-40.44	-62.35	3.39	5.30	Horizontal	Pass
4107.3	-55.19	-20.00	-35.19	-59.81	4.34	8.96	Horizontal	Pass
1367.7	-59.90	-20.00	-39.90	-61.78	3.16	5.04	Vertical	Pass
2281.3	-59.97	-20.00	-39.97	-61.88	3.39	5.30	Vertical	Pass
4107.3	-50.52	-20.00	-30.52	-55.14	4.34	8.96	Vertical	Pass

469.125 TX Bandwidth:12.5KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.5	-59.86	-20.00	-39.86	-61.95	3.20	5.29	Horizontal	Pass
2346.1	-61.59	-20.00	-41.59	-63.63	3.41	5.45	Horizontal	Pass
4223.9	-57.01	-20.00	-37.01	-61.51	4.59	9.09	Horizontal	Pass
1406.5	-55.45	-20.00	-35.45	-57.54	3.20	5.29	Vertical	Pass
2346.1	-61.65	-20.00	-41.65	-63.69	3.41	5.45	Vertical	Pass
4223.9	-52.64	-20.00	-32.64	-57.14	4.59	9.09	Vertical	Pass

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410.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1638.6	-64.67	-13.00	-51.67	-66.90	3.30	5.53	Horizontal	Pass
2050.0	-67.22	-13.00	-54.22	-68.62	3.34	4.74	Horizontal	Pass
4096.9	-52.65	-13.00	-39.65	-57.28	4.32	8.95	Horizontal	Pass
1638.6	-65.50	-13.00	-52.50	-67.73	3.30	5.53	Vertical	Pass
2050.0	-66.83	-13.00	-53.83	-68.23	3.34	4.74	Vertical	Pass
4096.9	-49.36	-13.00	-36.36	-53.99	4.32	8.95	Vertical	Pass

450.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1800.4	-60.42	-13.00	-47.42	-62.22	3.32	5.12	Horizontal	Pass
2252.5	-55.55	-13.00	-42.55	-57.39	3.39	5.23	Horizontal	Pass
4055.4	-47.42	-13.00	-34.42	-52.08	4.24	8.90	Horizontal	Pass
1800.4	-58.99	-13.00	-45.99	-60.79	3.32	5.12	Vertical	Pass
2252.5	-51.99	-13.00	-38.99	-53.83	3.39	5.23	Vertical	Pass
4055.4	-45.46	-13.00	-32.46	-50.12	4.24	8.90	Vertical	Pass

456.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1823.5	-55.11	-13.00	-42.11	-56.85	3.32	5.06	Horizontal	Pass
2281.3	-56.26	-13.00	-43.26	-58.17	3.39	5.30	Horizontal	Pass
4107.3	-44.47	-13.00	-31.47	-49.09	4.34	8.96	Horizontal	Pass
1367.7	-53.66	-13.00	-40.66	-55.54	3.16	5.04	Vertical	Pass
2281.3	-54.46	-13.00	-41.46	-56.37	3.39	5.30	Vertical	Pass
4107.3	-44.30	-13.00	-31.30	-48.92	4.34	8.96	Vertical	Pass

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469.125 TX Bandwidth:25KHz Power:2000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1875.3	-56.38	-13.00	-43.38	-57.99	3.32	4.93	Horizontal	Pass
2346.1	-54.69	-13.00	-41.69	-56.73	3.41	5.45	Horizontal	Pass
4223.9	-42.44	-13.00	-29.44	-46.94	4.59	9.09	Horizontal	Pass
1406.5	-49.31	-13.00	-36.31	-51.40	3.20	5.29	Vertical	Pass
2346.1	-52.40	-13.00	-39.40	-54.44	3.41	5.45	Vertical	Pass
4223.9	-42.39	-13.00	-29.39	-46.89	4.59	9.09	Vertical	Pass

410.125 TX Bandwidth:25KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1533.6	-69.76	-13.00	-56.76	-72.26	3.30	5.80	Horizontal	Pass
2050.0	-68.63	-13.00	-55.63	-70.03	3.34	4.74	Horizontal	Pass
4096.9	-54.12	-13.00	-41.12	-58.75	4.32	8.95	Horizontal	Pass
1613.7	-69.11	-13.00	-56.11	-71.40	3.30	5.59	Vertical	Pass
2065.7	-67.12	-13.00	-54.12	-68.55	3.35	4.78	Vertical	Pass
4096.9	-54.75	-13.00	-41.75	-59.38	4.32	8.95	Vertical	Pass

450.125 TX Bandwidth:25KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1800.4	-60.70	-13.00	-47.70	-62.50	3.32	5.12	Horizontal	Pass
2252.5	-58.18	-13.00	-45.18	-60.02	3.39	5.23	Horizontal	Pass
4055.4	-45.70	-13.00	-32.70	-50.36	4.24	8.90	Horizontal	Pass
1800.4	-66.78	-13.00	-53.78	-68.58	3.32	5.12	Vertical	Pass
2252.5	-53.66	-13.00	-40.66	-55.50	3.39	5.23	Vertical	Pass
4055.4	-48.97	-13.00	-35.97	-53.63	4.24	8.90	Vertical	Pass

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456.125 TX Bandwidth:25KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1823.5	-58.14	-13.00	-45.14	-59.88	3.32	5.06	Horizontal	Pass
2281.3	-59.23	-13.00	-46.23	-61.14	3.39	5.30	Horizontal	Pass
4107.3	-44.12	-13.00	-31.12	-48.74	4.34	8.96	Horizontal	Pass
1823.5	-58.75	-13.00	-45.75	-60.49	3.32	5.06	Vertical	Pass
2281.3	-57.55	-13.00	-44.55	-59.46	3.39	5.30	Vertical	Pass
4107.3	-44.53	-13.00	-31.53	-49.15	4.34	8.96	Vertical	Pass

469.125 TX Bandwidth:25KHz Power:1000mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1875.3	-59.48	-13.00	-46.48	-61.09	3.32	4.93	Horizontal	Pass
2346.1	-58.54	-13.00	-45.54	-60.58	3.41	5.45	Horizontal	Pass
4223.9	-47.77	-13.00	-34.77	-52.27	4.59	9.09	Horizontal	Pass
1406.5	-49.16	-13.00	-36.16	-51.25	3.20	5.29	Vertical	Pass
2346.1	-56.84	-13.00	-43.84	-58.88	3.41	5.45	Vertical	Pass
4223.9	-46.47	-13.00	-33.47	-50.97	4.59	9.09	Vertical	Pass

410.125 TX Bandwidth:25KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1597.4	-68.49	-13.00	-55.49	-70.82	3.30	5.63	Horizontal	Pass
2081.6	-68.82	-13.00	-55.82	-70.29	3.35	4.82	Horizontal	Pass
4096.9	-57.05	-13.00	-44.05	-61.68	4.32	8.95	Horizontal	Pass
1597.4	-68.48	-13.00	-55.48	-70.81	3.30	5.63	Vertical	Pass
2055.2	-65.30	-13.00	-52.30	-66.71	3.34	4.75	Vertical	Pass
4096.9	-57.70	-13.00	-44.70	-62.33	4.32	8.95	Vertical	Pass

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450.125 TX Bandwidth:25KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1800.4	-64.51	-13.00	-51.51	-66.31	3.32	5.12	Horizontal	Pass
2252.5	-61.45	-13.00	-48.45	-63.29	3.39	5.23	Horizontal	Pass
4055.4	-50.47	-13.00	-37.47	-55.13	4.24	8.90	Horizontal	Pass
1800.4	-67.02	-13.00	-54.02	-68.82	3.32	5.12	Vertical	Pass
2252.5	-60.21	-13.00	-47.21	-62.05	3.39	5.23	Vertical	Pass
4055.4	-52.45	-13.00	-39.45	-57.11	4.24	8.90	Vertical	Pass

456.125 TX Bandwidth:25KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1823.5	-60.40	-13.00	-47.40	-62.14	3.32	5.06	Horizontal	Pass
2281.3	-63.48	-13.00	-50.48	-65.39	3.39	5.30	Horizontal	Pass
4107.3	-48.57	-13.00	-35.57	-53.19	4.34	8.96	Horizontal	Pass
1823.5	-63.11	-13.00	-50.11	-64.85	3.32	5.06	Vertical	Pass
2281.3	-62.77	-13.00	-49.77	-64.68	3.39	5.30	Vertical	Pass
4107.3	-48.87	-13.00	-35.87	-53.49	4.34	8.96	Vertical	Pass

469.125 TX Bandwidth:25KHz Power:500mW								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1875.3	-62.15	-13.00	-49.15	-63.76	3.32	4.93	Horizontal	Pass
2346.1	-62.33	-13.00	-49.33	-64.37	3.41	5.45	Horizontal	Pass
4223.9	-49.53	-13.00	-36.53	-54.03	4.59	9.09	Horizontal	Pass
1406.5	-54.74	-13.00	-41.74	-56.83	3.20	5.29	Vertical	Pass
2346.1	-61.77	-13.00	-48.77	-63.81	3.41	5.45	Vertical	Pass
4223.9	-50.33	-13.00	-37.33	-54.83	4.59	9.09	Vertical	Pass

Note: Margin = Emission level – Limit.
All modes have been tested, only record the worst test result.

- End of the Report -

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