



FCC REPORT

For LTE



Report No. : CHTW24100047 Report Verification:

Project No..... : SHT2407073401W

FCC ID..... : 2AYEZ-MT-100

Applicant : Telo Communication (Shenzhen) Co., Ltd

Address..... : 13th Floor, Building B, Union RSD Center, No. 287 Guangshen Rd., Bao'an District, Shenzhen, China

Product Name : Smart LTE Terminal

Trade Mark : TELOX

Model No. : MT-100

Listed Model(s) : MT-100L, MT-100M, MT-100X, MT-100P, MT-100K

Standard : FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27

Date of receipt of test sample..... : Aug. 15, 2024

Date of testing..... : Aug. 22, 2024- Aug. 29, 2024

Date of issue..... : Oct. 17, 2024

Result..... : Pass

Compiled by
(position+printedname+signature).... : File administrators Xiaodong Zhao

Xiaodong Zhao

Supervised by
(position+printedname+signature)..... : Project Engineer Xiaodong Zhao

Xiaodong Zhao

Approved by
(position+printedname+signature)..... : RF Manager Xu yang

Xu, Yang

Testing Laboratory Name : Shenzhen Huatongwei International Inspection Co., Ltd.

Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road,
Yangguang Community, Xili Subdistrict, Nanshan District,
Shenzhen, Guangdong, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

[FCC CFR Title 47 Part 2:](#) Frequency Allocations and Radio Treaty Matters; General Rules and Regulations

[FCC CFR Title 47 Part 22 Subpart H:](#) Cellular Radiotelephone Service

[FCC CFR Title 47 Part 24 Subpart E:](#) Broadband PCS

[FCC CFR Title 47 Part 27:](#) Miscellaneous Wireless Communications Services

[ANSI C63.26-2015:](#) American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[KDB 971168 D01 Power Meas License Digital Systems v03:](#) MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2024-10-17	Original

2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
5.1	Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	Xiangyu Wei
5.2	Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	Xiangyu Wei
5.3	99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	Xiangyu Wei
5.4	Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiangyu Wei
5.5	Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiangyu Wei
5.6	Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	Xiangyu Wei
5.7	Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	Xiangyu Wei
5.8	ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	Xiangyu Wei
5.9	Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	Yifan Wang

Note:

#1: The test result does not include measurement uncertainty value

3. SUMMARY

3.1. Client Information

Applicant:	Telo Communication (Shenzhen) Co., Ltd
Address:	13th Floor, Building B, Union RSD Center, No. 287 Guangshen Rd., Bao'an District, Shenzhen, China
Manufacturer:	Telo Communication (Shenzhen) Co., Ltd
Address:	13th Floor, Building B, Union RSD Center, No. 287 Guangshen Rd., Bao'an District, Shenzhen, China
Factory:	Telo Communication (Shenzhen) Co., Ltd
Address:	13th Floor, Building B, Union RSD Center, No. 287 Guangshen Rd., Bao'an District, Shenzhen, China

3.2. Product Description

Main unit information:	
Product Name:	Smart LTE Terminal
Trade Mark:	TELOX
Model No.:	MT-100
Listed Model(s):	MT-100L, MT-100M, MT-100X, MT-100P, MT-100K
Power supply:	DC 3.87V from Battery
Hardware version:	V1.0
Software version:	MT100_US_V1P_20240531
Accessory unit information:	
Battery information:	3.87V 4000mAh 15.48Wh Model: TEB-4000T Limited Charge Voltage: 4.45V
Adapter information:	MODEL: MR-0502000US INPUT:100-240V~50/60Hz 0.3A OUTPUT:DC 5V 2.0A Shen zhen Mao Two Power Co., Ltd

3.3. Radio Specification Description

Support Operating Band:	<input checked="" type="checkbox"/> LTE Band 2	<input checked="" type="checkbox"/> LTE Band 4	<input checked="" type="checkbox"/> LTE Band 5
	<input checked="" type="checkbox"/> LTE Band 7	<input checked="" type="checkbox"/> LTE Band 12	<input checked="" type="checkbox"/> LTE Band 13
	<input checked="" type="checkbox"/> LTE Band 17	<input checked="" type="checkbox"/> LTE Band 66	
Operating Frequency Range:	Please refer to note #2		
Channel bandwidth:	Please refer to note #3		
Uplink Modulation type:	<input checked="" type="checkbox"/> QPSK	<input checked="" type="checkbox"/> 16QAM	<input type="checkbox"/> 64QAM <input type="checkbox"/> 256QAM
Downlink Modulation type:	<input checked="" type="checkbox"/> QPSK	<input checked="" type="checkbox"/> 16QAM	<input checked="" type="checkbox"/> 64QAM <input type="checkbox"/> 256QAM
Antenna type:	FPC Antenna		
Antenna gain #4:	Band 2: 0.72dBi	Band 4: 0.63dBi	Band 5: 0.26dBi
	Band 7: 0.96dBi	Band 12: 0.11dBi	Band 13: 0.11dBi
	Band 17: 0.11dBi	Band 66: 0.75dBi	

Note:

- ☒: means that this feature is supported; ☐: means that this feature is not supported
- #2: Operating frequency range is as follow:

LTE Band	Uplink frequency	Downlink frequency
LTE Band 2	1850.7 – 1909.3 MHz	1930.7 – 1989.3 MHz
LTE Band 4	1710.7 – 1754.3 MHz	2110.7 – 2154.3 MHz
LTE Band 5	824.7 – 848.3 MHz	869.7 – 893.3 MHz
LTE Band 7	2502.5 – 2567.5 MHz	2622.5 – 2687.5 MHz
LTE Band 12	699.7 – 715.3 MHz	729.7 – 745.3 MHz
LTE Band 13	779.5 – 784.5 MHz	748.5 – 753.5 MHz
LTE Band 17	706.5 – 713.5 MHz	736.5 – 743.5 MHz
LTE Band 66	1710.7 – 1779.3 MHz	2110.7 – 2179.3 MHz

- #3: Supported channel bandwidth is as follow:

LTE Band	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
LTE Band 2	√	√	√	√	√	√
LTE Band 4	√	√	√	√	√	√
LTE Band 5	√	√	√	√	-	-
LTE Band 7	-	-	√	√	√	√
LTE Band 12	√	√	√	√	-	-
LTE Band 13	-	-	√	√	-	-
LTE Band 17	-	-	√	√	-	-

LTE Band 66	√	√	√	√	√	√
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√: means that this feature is supported; -: means that this feature is not supported

- #4: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, HTW lab has not verified the authenticity of its information

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

LTE Band 2	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="6">Low Range</td><td>1.4</td><td>18607</td><td>1850.7</td><td>607</td><td>1930.7</td></tr><tr><td>3</td><td>18615</td><td>1851.5</td><td>615</td><td>1931.5</td></tr><tr><td>5</td><td>18625</td><td>1852.5</td><td>625</td><td>1932.5</td></tr><tr><td>10</td><td>18650</td><td>1855</td><td>650</td><td>1935</td></tr><tr><td>15 ^[1]</td><td>18675</td><td>1857.5</td><td>675</td><td>1937.5</td></tr><tr><td>20 ^[1]</td><td>18700</td><td>1860</td><td>700</td><td>1940</td></tr><tr><td>Mid Range</td><td>1.4/3/5/10/15 ^[1]/20 ^[1]</td><td>18900</td><td>1880</td><td>900</td><td>1960</td></tr><tr><td rowspan="6">High Range</td><td>1.4</td><td>19193</td><td>1909.3</td><td>1193</td><td>1989.3</td></tr><tr><td>3</td><td>19185</td><td>1908.5</td><td>1185</td><td>1988.5</td></tr><tr><td>5</td><td>19175</td><td>1907.5</td><td>1175</td><td>1987.5</td></tr><tr><td>10</td><td>19150</td><td>1905</td><td>1150</td><td>1985</td></tr><tr><td>15 ^[1]</td><td>19125</td><td>1902.5</td><td>1125</td><td>1982.5</td></tr><tr><td>20 ^[1]</td><td>19100</td><td>1900</td><td>1100</td><td>1980</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	18607	1850.7	607	1930.7	3	18615	1851.5	615	1931.5	5	18625	1852.5	625	1932.5	10	18650	1855	650	1935	15 ^[1]	18675	1857.5	675	1937.5	20 ^[1]	18700	1860	700	1940	Mid Range	1.4/3/5/10/15 ^[1] /20 ^[1]	18900	1880	900	1960	High Range	1.4	19193	1909.3	1193	1989.3	3	19185	1908.5	1185	1988.5	5	19175	1907.5	1175	1987.5	10	19150	1905	1150	1985	15 ^[1]	19125	1902.5	1125	1982.5	20 ^[1]	19100	1900	1100	1980	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					
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LTE Band 7	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="4">Low Range</td><td>5</td><td>20775</td><td>2502.5</td><td>2775</td><td>2622.5</td></tr><tr><td>10</td><td>20800</td><td>2505</td><td>2800</td><td>2625</td></tr><tr><td>15</td><td>20825</td><td>2507.5</td><td>2825</td><td>2627.5</td></tr><tr><td>20 ^[1]</td><td>20850</td><td>2510</td><td>2850</td><td>2630</td></tr><tr><td>Mid Range</td><td>5/10/15/20 ^[1]</td><td>21100</td><td>2535</td><td>3100</td><td>2655</td></tr><tr><td rowspan="4">High Range</td><td>5</td><td>21425</td><td>2567.5</td><td>3425</td><td>2687.5</td></tr><tr><td>10</td><td>21400</td><td>2565</td><td>3400</td><td>2685</td></tr><tr><td>15</td><td>21375</td><td>2562.5</td><td>3375</td><td>2682.5</td></tr><tr><td>20 ^[1]</td><td>21350</td><td>2560</td><td>3350</td><td>2680</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	5	20775	2502.5	2775	2622.5	10	20800	2505	2800	2625	15	20825	2507.5	2825	2627.5	20 ^[1]	20850	2510	2850	2630	Mid Range	5/10/15/20 ^[1]	21100	2535	3100	2655	High Range	5	21425	2567.5	3425	2687.5	10	21400	2565	3400	2685	15	21375	2562.5	3375	2682.5	20 ^[1]	21350	2560	3350	2680	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																									
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	10	20800	2505	2800	2625																																																																												
	15	20825	2507.5	2825	2627.5																																																																												
	20 ^[1]	20850	2510	2850	2630																																																																												
Mid Range	5/10/15/20 ^[1]	21100	2535	3100	2655																																																																												
High Range	5	21425	2567.5	3425	2687.5																																																																												
	10	21400	2565	3400	2685																																																																												
	15	21375	2562.5	3375	2682.5																																																																												
	20 ^[1]	21350	2560	3350	2680																																																																												
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																																																																																	
LTE Band 12	<table><tr><th colspan="6">Table 4.3.1.1.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 12</th></tr><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="4">Low Range</td><td>1.4</td><td>23017</td><td>699.7</td><td>5017</td><td>729.7</td></tr><tr><td>3</td><td>23025</td><td>700.5</td><td>5025</td><td>730.5</td></tr><tr><td>5 ^[1]</td><td>23035</td><td>701.5</td><td>5035</td><td>731.5</td></tr><tr><td>10 ^[1]</td><td>23060</td><td>704</td><td>5060</td><td>734</td></tr><tr><td>Mid Range</td><td>1.4/3/5 ^[1]/10 ^[1]</td><td>23095</td><td>707.5</td><td>5095</td><td>737.5</td></tr><tr><td rowspan="4">High Range</td><td>1.4</td><td>23173</td><td>715.3</td><td>5173</td><td>745.3</td></tr><tr><td>3</td><td>23165</td><td>714.5</td><td>5165</td><td>744.5</td></tr><tr><td>5 ^[1]</td><td>23155</td><td>713.5</td><td>5155</td><td>743.5</td></tr><tr><td>10 ^[1]</td><td>23130</td><td>711</td><td>5130</td><td>741</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Table 4.3.1.1.12-1: Test frequencies for E-UTRA channel bandwidth for operating band 12						Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	1.4	23017	699.7	5017	729.7	3	23025	700.5	5025	730.5	5 ^[1]	23035	701.5	5035	731.5	10 ^[1]	23060	704	5060	734	Mid Range	1.4/3/5 ^[1] /10 ^[1]	23095	707.5	5095	737.5	High Range	1.4	23173	715.3	5173	745.3	3	23165	714.5	5165	744.5	5 ^[1]	23155	713.5	5155	743.5	10 ^[1]	23130	711	5130	741	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																			
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	3	23025	700.5	5025	730.5																																																																												
	5 ^[1]	23035	701.5	5035	731.5																																																																												
	10 ^[1]	23060	704	5060	734																																																																												
Mid Range	1.4/3/5 ^[1] /10 ^[1]	23095	707.5	5095	737.5																																																																												
High Range	1.4	23173	715.3	5173	745.3																																																																												
	3	23165	714.5	5165	744.5																																																																												
	5 ^[1]	23155	713.5	5155	743.5																																																																												
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NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																																																																																	
LTE Band 13	<table><tr><th>Test Frequency ID</th><th>Bandwidth [MHz]</th><th>N_{UL}</th><th>Frequency of Uplink [MHz]</th><th>N_{DL}</th><th>Frequency of Downlink [MHz]</th></tr><tr><td rowspan="2">Low Range</td><td>5 ^[1]</td><td>23205</td><td>779.5</td><td>5205</td><td>748.5</td></tr><tr><td>10 ^[1]</td><td>23230</td><td>782</td><td>5230</td><td>751</td></tr><tr><td>Mid Range</td><td>5 ^[1]/10 ^[1]</td><td>23230</td><td>782</td><td>5230</td><td>751</td></tr><tr><td rowspan="2">High Range</td><td>5 ^[1]</td><td>23255</td><td>784.5</td><td>5255</td><td>753.5</td></tr><tr><td>10 ^[1]</td><td>23230</td><td>782</td><td>5230</td><td>751</td></tr><tr><td colspan="6">NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.</td></tr></table>	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]	Low Range	5 ^[1]	23205	779.5	5205	748.5	10 ^[1]	23230	782	5230	751	Mid Range	5 ^[1] /10 ^[1]	23230	782	5230	751	High Range	5 ^[1]	23255	784.5	5255	753.5	10 ^[1]	23230	782	5230	751	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																																													
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Mid Range	5 ^[1] /10 ^[1]	23230	782	5230	751																																																																												
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NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.																																																																																	

LTE Band 17	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	5 ^[1]	23755	706.5	5755	736.5
		10 ^[1]	23780	709	5780	739
	Mid Range	5 ^[1] /10 ^[1]	23790	710	5790	740
	High Range	5 ^[1]	23825	713.5	5825	743.5
		10 ^[1]	23800	711	5800	741
	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					

LTE Band 66	Table 4.3.1.1.66-1: Test frequencies for E-UTRA channel bandwidth for operating band 66					
	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	1.4	131979	1710.7	66443	2110.7
		3	131987	1711.5	66451	2111.5
		5	131997	1712.5	66461	2112.5
		10	132022	1715	66486	2115
		15	132047	1717.5	66511	2117.5
		20	132072	1720	66536	2120
	Mid Range Tx ¹	1.4/3/5/10/15/20	132322	1745	66786	2145
	Mid Range	1.4/3/5/10/15/20	132422	1755	66886	2155
	Paired High Range ²	1.4	132665	1779.3	67129	2179.3
		3	132657	1778.5	67121	2178.5
		5	132647	1777.5	67111	2177.5
		10	132622	1775	67086	2175
		15	132597	1772.5	67061	2172.5
		20	132572	1770	67036	2170
	High Range ³	1.4	NA	NA	67329	2199.3
		3	NA	NA	67321	2198.5
		5	NA	NA	67311	2197.5
		10	NA	NA	67286	2195
		15	NA	NA	67261	2192.5
		20	NA	NA	67236	2190

4.2. Test mode

Test mode	Link mode
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- 1) Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems and ANSI C63.26 with maximum output power.
- 2) Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Test configuration is as follow:

Test Items	Bandwidth	Modulation	RB #		
			1	Half	Full
Conducted Output Power	#5	#6	○	○	○
Peak-to-Average Ratio	#5	#6	○	-	○
99% Occupied Bandwidth & 26 dB Bandwidth	#5	#6	-	-	○
Band Edge	#5	#6	○	-	○
Conducted Spurious Emission	#5	#6	○	-	-
Frequency Stability	#5	#6	-	-	○
ERP and EIRP	#5	#6	○	○	○
Radiated Spurious Emission	#5	#6	○	-	-

Note:

- #5: Test all kind of bandwidth in section 3.3
- #6: Test all kind of uplink modulation in section 3.3
- ○: means that this configuration is chosen for testing
- -: means that this configuration is not test.

- The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different bandwidth, modulations and RB size/offset in exploratory test. Subsequently, only the worst case emissions (highest bandwidth, QPSK, and 1RB0) are reported.

4.3. Test sample information

Test item	HTW sample no.
Conducted test items	Please refer to the description in the appendix report
Radiated test items	YPHT24070734001

Note:

Conducted test items: Conducted Output Power, Peak-Average Ratio, 99% Occupied Bandwidth & 26 dB Bandwidth, Band Edge, Conducted Spurious Emissions, Frequency stability, ERP and EIRP

Radiated test items: Radiated Spurious Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?				
✓ No				
Item	Equipment	Trade Name	Model No.	Other
1				
2				

4.5. Testing environmental condition

Voltage	VN=Nominal Voltage	DC 3.87V
	VL=Lower Voltage	DC 3.48V
	VH=Higher Voltage	DC 4.25V
Temperature	TN=Normal Temperature	25 °C
	Extreme Temperature	From -30°C to + 50°C
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Output Power	0.66
2	Peak-to-Average Ratio	-
3	99% Occupied Bandwidth & 26 dB Bandwidth	0.002%
4	Band Edge	1.68dB
5	Conducted Spurious Emissions	1.68dB
6	Frequency stability	0.02ppm
7	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.7. Equipments Used during the Test

● RF Conducted test item

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2024/08/22	2025/08/21
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2024/08/12	2025/08/11
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A
●	T-Cock	Weinschel	HTWE0289	1580	SC329	2024/08/22	2025/08/21

● Auxiliary Equipment

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2024/06/11	2025/06/10
●	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

● Radiated Spurious Emission

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2024/8/12	2025/8/11
●	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2024/8/12	2025/8/11
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2024/4/8	2027/4/7
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2024/6/6	2025/6/5
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2024/6/6	2025/6/5
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

● Auxiliary Equipment

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2024/08/12	2025/08/11
●	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2024/03/26	2025/03/25
●	Band Stop filter	-	HTWE0039	N/A	N/A	2024/01/23	2025/01/24

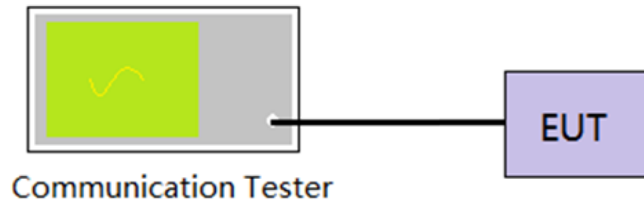
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT output port was connected to communication tester.
2. Set EUT at maximum power through communication tester.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure the maximum burst average power.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

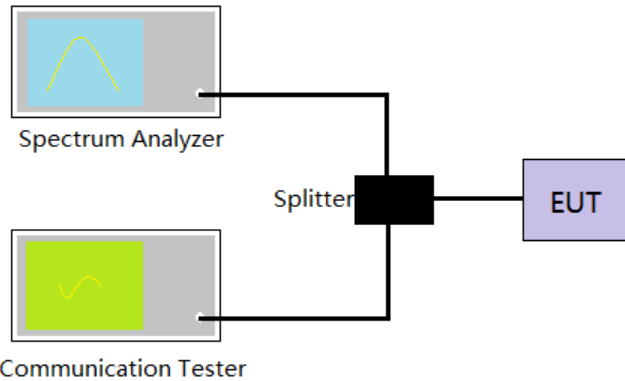
Refer to the appendix report

5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

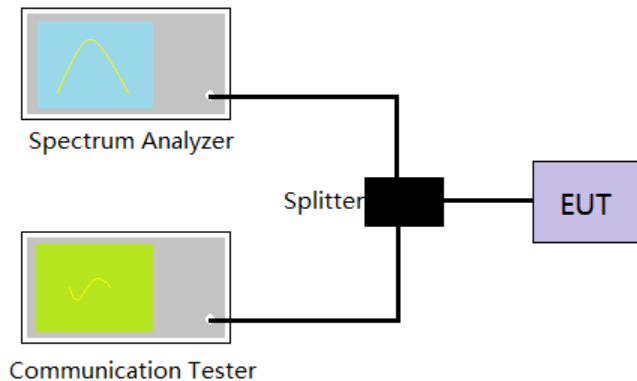
Refer to the appendix report

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
Center Frequency= Carrier frequency, RBW=1% to 5% of the anticipated OBW, VBW= 3 * RBW,
Detector=Peak,
Trace maximum hold.
4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.4. Band Edge

LIMIT

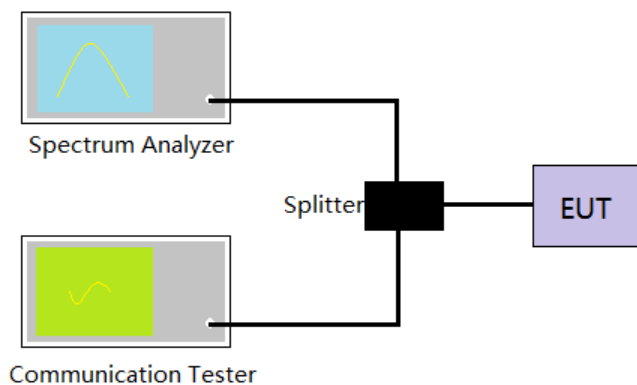
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. The band edges of low and high channels were measured.
4. Spectrum analyzer setting as follow:
RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
5. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.5. Conducted Spurious Emissions

LIMIT

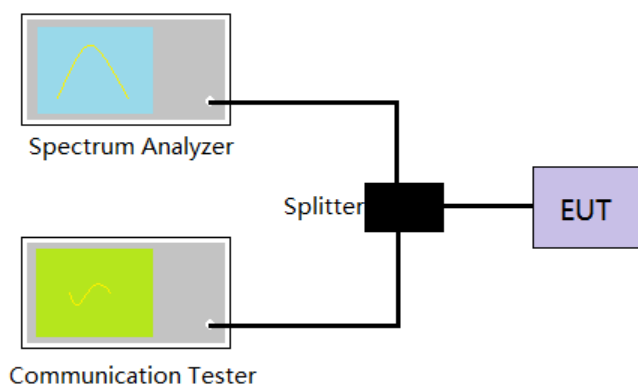
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit < -25 dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
2. Set EUT in maximum power output.
3. Spectrum analyzer setting as follow:
Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto
Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto
Scan frequency range up to 10th harmonic.
4. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

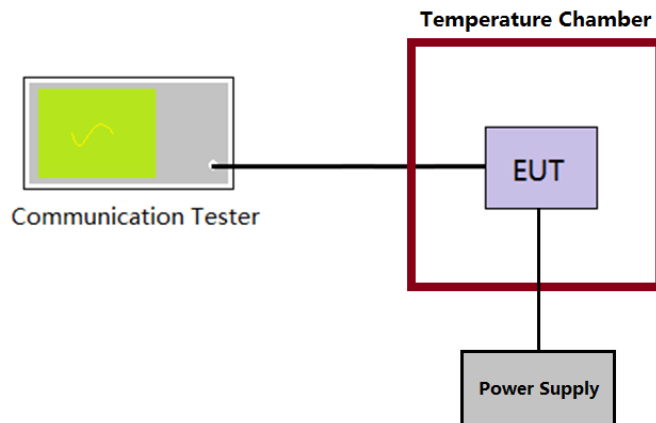
Refer to the appendix report

5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber.
4. Turn EUT off and set the chamber temperature to -30°C . After the temperature stabilized for approximately 30 minutes recorded the frequency.
5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of $+50^{\circ}\text{C}$ reached.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

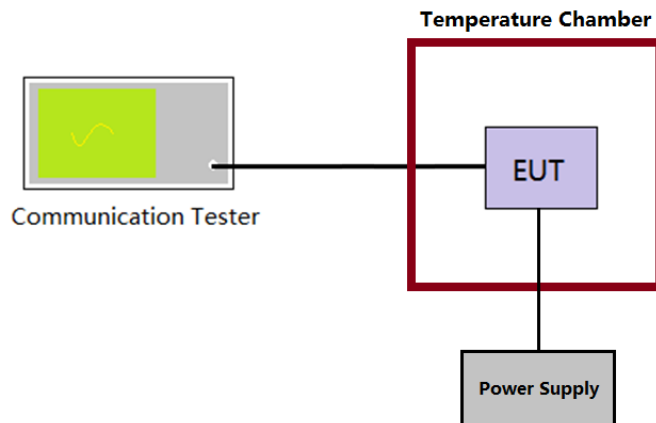
Refer to the appendix report

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. The EUT output port was connected to communication tester.
3. The EUT was placed inside the temperature chamber at 25°C
4. The power supply voltage to the EUT was varied $\pm 15\%$ of the nominal value measured at the input to the EUT
5. Record the maximum frequency change.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

5.8. ERP and EIRP

LIMIT

LTE Band 2/7: 2W(33dBm) EIRP

LTE Band 4/66: 1W(30dBm) EIRP

LTE Band 5: 7W(38.50dBm) ERP

LTE Band 12/13/17: 3W(34.77dBm) ERP

TEST PROCEDURE

1. According to the power tested in section 5.1, select the maximum power in each mode, and use the following formula to calculate the corresponding ERP/EIRP.
2. $ERP = \text{conducted power} + \text{Gain(dBd)}$
3. $EIRP = \text{conducted power} + \text{Gain(dBi)}$
 $ERP = EIRP - 2.15$

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

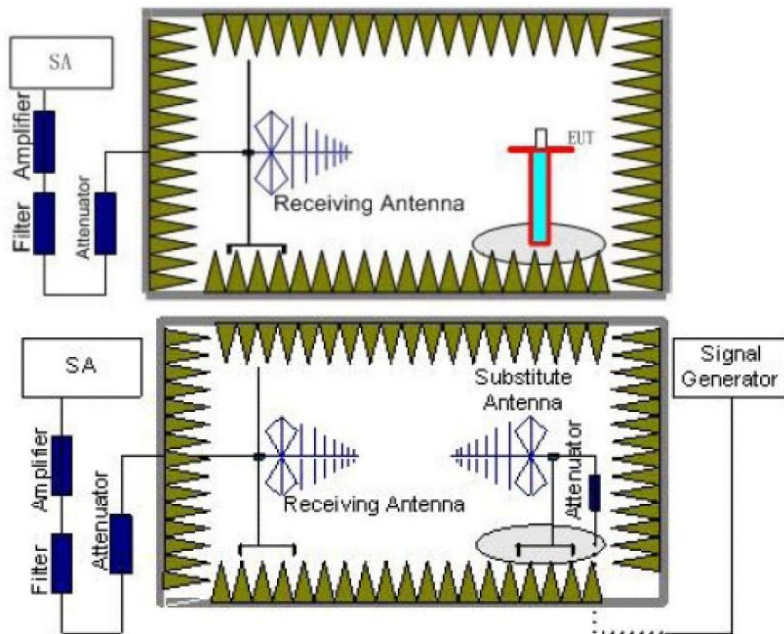
5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4/5/12/13/17/66: -13dBm

LTE Band 7: -25dBm

TEST CONFIGURATION



TEST PROCEDURE

1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:
$$P_e = P_s(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$
where
 P_e = equivalent emission power in dBm
 P_s = source (signal generator) power in dBm
NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:
$$\text{gain (dBd)} = \text{gain (dBi)} - 2.15 \text{ dB}.$$
If necessary, the antenna gain can be calculated from calibrated antenna factor information
14. Provide the complete measurement results as a part of the test report.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

Note: only show the worse case for QPSK modulation.

LTE Band 2									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	48.57	-77.70	24.08	1.28	30.88	-83.22	-13.00	-70.22	Peak
2	302.34	-78.76	22.78	3.38	29.99	-82.59	-13.00	-69.59	Peak
3	3709.69	-26.24	42.28	5.22	40.74	-19.48	-13.00	-6.48	Peak
4	5574.67	-41.12	43.76	6.48	39.61	-30.49	-13.00	-17.49	Peak
5	7432.62	-33.72	48.40	7.73	39.91	-17.50	-13.00	-4.50	Peak
6	9298.80	-57.57	49.63	8.52	39.88	-39.30	-13.00	-26.30	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	158.30	-77.47	21.01	2.38	30.30	-84.38	-13.00	-71.38	Peak
2	420.77	-78.34	25.38	4.05	29.88	-78.79	-13.00	-65.79	Peak
3	3709.69	-28.36	42.29	5.22	40.74	-21.59	-13.00	-8.59	Peak
4	5574.67	-40.23	43.93	6.48	39.61	-29.43	-13.00	-16.43	Peak
5	7432.62	-37.16	48.53	7.73	39.91	-20.81	-13.00	-7.81	Peak
6	9298.80	-55.02	49.78	8.52	39.88	-36.60	-13.00	-23.60	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	37.84	-78.25	27.46	1.12	30.97	-80.64	-13.00	-67.64	Peak
2	850.14	-80.50	29.76	6.01	28.97	-73.70	-13.00	-60.70	Peak
3	3747.66	-27.12	42.24	5.24	40.68	-20.32	-13.00	-7.32	Peak
4	5631.73	-33.43	43.77	6.54	39.53	-22.65	-13.00	-9.65	Peak
5	7508.69	-32.81	48.05	7.79	39.93	-16.90	-13.00	-3.90	Peak
6	11254.86	-55.42	52.95	9.00	40.45	-33.92	-13.00	-20.92	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	94.74	-80.44	25.82	1.82	30.60	-83.40	-13.00	-70.40	Peak
2	474.21	-79.82	25.51	4.33	29.79	-79.77	-13.00	-66.77	Peak
3	3747.66	-28.98	42.17	5.24	40.68	-22.25	-13.00	-9.25	Peak
4	5631.73	-30.82	43.94	6.54	39.53	-19.87	-13.00	-6.87	Peak
5	7508.69	-35.59	48.40	7.79	39.93	-19.33	-13.00	-6.33	Peak
6	9393.97	-51.30	49.83	8.56	39.84	-32.75	-13.00	-19.75	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-76.43	26.96	1.18	30.95	-79.24	-13.00	-66.24	Peak
2	411.99	-80.15	25.76	4.00	29.82	-80.21	-13.00	-67.21	Peak
3	3795.66	-24.67	42.19	5.26	40.60	-17.82	-13.00	-4.82	Peak
4	5689.36	-37.24	43.85	6.60	39.45	-26.24	-13.00	-13.24	Peak
5	7585.53	-33.05	47.70	7.86	39.95	-17.44	-13.00	-4.44	Peak
6	11399.03	-57.00	52.97	9.12	40.30	-35.21	-13.00	-22.21	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	95.74	-79.65	25.81	1.83	30.58	-82.59	-13.00	-69.59	Peak
2	312.06	-78.16	23.17	3.44	29.94	-81.49	-13.00	-68.49	Peak
3	3795.66	-26.14	42.03	5.26	40.60	-19.45	-13.00	-6.45	Peak
4	5689.36	-32.06	44.00	6.60	39.45	-20.91	-13.00	-7.91	Peak
5	7585.53	-37.00	48.27	7.86	39.95	-20.82	-13.00	-7.82	Peak
6	9490.10	-53.26	49.73	8.60	39.80	-34.73	-13.00	-21.73	Peak

LTE Band 4									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-78.66	26.96	1.18	30.95	-81.47	-13.00	-68.47	Peak
2	615.16	-79.89	28.18	4.99	29.48	-76.20	-13.00	-63.20	Peak
3	3428.21	-30.13	39.99	4.93	40.85	-26.06	-13.00	-13.06	Peak
4	5151.68	-47.31	44.05	6.12	40.02	-37.16	-13.00	-24.16	Peak
5	6868.65	-37.63	47.06	7.40	39.40	-22.57	-13.00	-9.57	Peak
6	8593.22	-53.45	47.37	8.27	40.16	-37.97	-13.00	-24.97	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	96.76	-79.59	25.79	1.84	30.56	-82.52	-13.00	-69.52	Peak
2	285.80	-78.15	22.87	3.28	30.07	-82.07	-13.00	-69.07	Peak
3	3428.21	-25.89	40.01	4.93	40.85	-21.80	-13.00	-8.80	Peak
4	5151.68	-46.36	44.06	6.12	40.02	-36.20	-13.00	-23.20	Peak
5	6868.65	-41.40	47.39	7.40	39.40	-26.01	-13.00	-13.01	Peak
6	8593.22	-54.85	47.74	8.27	40.16	-39.00	-13.00	-26.00	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-78.05	26.96	1.18	30.95	-80.86	-13.00	-67.86	Peak
2	634.94	-79.52	28.85	5.08	29.46	-75.05	-13.00	-62.05	Peak
3	3454.49	-29.83	40.36	4.98	40.88	-25.37	-13.00	-12.37	Peak
4	5191.17	-48.89	43.97	6.16	39.97	-38.73	-13.00	-25.73	Peak
5	6921.30	-35.59	47.30	7.39	39.43	-20.33	-13.00	-7.33	Peak
6	10374.42	-60.08	51.37	8.90	40.12	-39.93	-13.00	-26.93	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	159.42	-76.56	21.10	2.39	30.30	-83.37	-13.00	-70.37	Peak
2	356.67	-77.96	24.34	3.71	29.97	-79.88	-13.00	-66.88	Peak
3	3454.49	-27.39	40.42	4.98	40.88	-22.87	-13.00	-9.87	Peak
4	5191.17	-46.97	43.95	6.16	39.97	-36.83	-13.00	-23.83	Peak
5	6921.30	-40.70	47.37	7.39	39.43	-25.37	-13.00	-12.37	Peak
6	8659.10	-55.03	48.28	8.29	40.14	-38.60	-13.00	-25.60	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	42.64	-77.88	26.56	1.19	30.95	-81.08	-13.00	-68.08	Peak
2	628.27	-80.18	28.60	5.05	29.50	-76.03	-13.00	-63.03	Peak
3	3480.97	-31.95	40.74	5.03	40.91	-27.09	-13.00	-14.09	Peak
4	5230.96	-43.28	43.97	6.19	39.93	-33.05	-13.00	-20.05	Peak
5	6974.36	-34.96	47.53	7.38	39.46	-19.51	-13.00	-6.51	Peak
6	8703.29	-56.02	48.14	8.31	40.12	-39.69	-13.00	-26.69	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	139.97	-77.04	21.94	2.23	30.50	-83.37	-13.00	-70.37	Peak
2	399.15	-78.18	25.23	3.94	29.84	-78.85	-13.00	-65.85	Peak
3	3480.97	-29.09	40.83	5.03	40.91	-24.14	-13.00	-11.14	Peak
4	5217.66	-44.72	43.94	6.18	39.94	-34.54	-13.00	-21.54	Peak
5	6974.36	-36.99	47.36	7.38	39.46	-21.71	-13.00	-8.71	Peak
6	8703.29	-55.54	48.68	8.31	40.12	-38.67	-13.00	-25.67	Peak

LTE Band 5									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-77.11	26.96	1.18	30.95	-79.92	-13.00	-66.92	Peak
2	453.02	-79.92	25.92	4.22	29.84	-79.62	-13.00	-66.62	Peak
3	1646.95	-34.19	36.15	3.35	41.48	-36.17	-13.00	-23.17	Peak
4	2474.92	-36.55	39.41	4.17	41.04	-34.01	-13.00	-21.01	Peak
5	3299.78	-51.74	40.46	4.83	40.80	-47.25	-13.00	-34.25	Peak
6	4128.28	-55.11	41.91	5.61	40.22	-47.81	-13.00	-34.81	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	110.20	-78.27	24.39	1.97	30.34	-82.25	-13.00	-69.25	Peak
2	445.13	-77.99	25.44	4.18	29.98	-78.35	-13.00	-65.35	Peak
3	1646.95	-31.99	36.11	3.35	41.48	-34.01	-13.00	-21.01	Peak
4	2474.92	-37.91	39.25	4.17	41.04	-35.53	-13.00	-22.53	Peak
5	3299.78	-49.24	40.51	4.83	40.80	-44.70	-13.00	-31.70	Peak
6	4128.28	-51.92	42.18	5.61	40.22	-44.35	-13.00	-31.35	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	42.79	-77.21	26.49	1.19	30.95	-80.48	-13.00	-67.48	Peak
2	400.56	-79.47	25.43	3.95	29.80	-79.89	-13.00	-66.89	Peak
3	1663.80	-39.00	36.21	3.36	41.46	-40.89	-13.00	-27.89	Peak
4	2493.90	-38.09	39.31	4.19	41.03	-35.62	-13.00	-22.62	Peak
5	3325.07	-47.79	40.24	4.84	40.80	-43.51	-13.00	-30.51	Peak
6	4996.69	-59.57	44.35	6.00	40.20	-49.42	-13.00	-36.42	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	57.50	-76.49	23.37	1.39	30.73	-82.46	-13.00	-69.46	Peak
2	153.37	-72.55	20.64	2.34	30.32	-79.89	-13.00	-66.89	Peak
3	1663.80	-38.00	36.15	3.36	41.46	-39.95	-13.00	-26.95	Peak
4	2493.90	-37.96	39.24	4.19	41.03	-35.56	-13.00	-22.56	Peak
5	3325.07	-44.22	40.27	4.84	40.80	-39.91	-13.00	-26.91	Peak
6	4159.93	-55.83	42.33	5.65	40.29	-48.14	-13.00	-35.14	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	42.05	-78.00	26.83	1.18	30.95	-80.94	-13.00	-67.94	Peak
2	519.61	-79.31	25.14	4.55	29.78	-79.40	-13.00	-66.40	Peak
3	1676.56	-36.05	36.26	3.36	41.44	-37.87	-13.00	-24.87	Peak
4	2519.42	-38.04	39.17	4.21	41.01	-35.67	-13.00	-22.67	Peak
5	3359.10	-49.78	39.94	4.84	40.80	-45.80	-13.00	-32.80	Peak
6	4202.50	-56.62	42.29	5.72	40.37	-48.98	-13.00	-35.98	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	99.52	-79.12	25.76	1.87	30.50	-81.99	-13.00	-68.99	Peak
2	443.56	-78.82	25.49	4.17	29.98	-79.14	-13.00	-66.14	Peak
3	1676.56	-30.32	36.18	3.36	41.44	-32.22	-13.00	-19.22	Peak
4	2519.42	-35.44	39.22	4.21	41.01	-33.02	-13.00	-20.02	Peak
5	3359.10	-45.47	39.95	4.84	40.80	-41.48	-13.00	-28.48	Peak
6	4202.50	-50.22	42.54	5.72	40.37	-42.33	-13.00	-29.33	Peak

LTE Band 7									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	48.57	-77.60	24.08	1.28	30.88	-83.12	-25.00	-58.12	Peak
2	281.80	-79.31	22.66	3.26	30.09	-83.48	-25.00	-58.48	Peak
3	5009.43	-39.10	44.34	6.01	40.19	-28.94	-25.00	-3.94	Peak
4	7527.83	-43.67	47.96	7.81	39.94	-27.84	-25.00	-2.84	Peak
5	10036.73	-53.43	50.50	8.63	39.92	-34.22	-25.00	-9.22	Peak
6	12556.75	-53.30	52.76	10.20	40.93	-31.27	-25.00	-6.27	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	93.74	-81.29	25.84	1.81	30.63	-84.27	-25.00	-59.27	Peak
2	639.42	-80.51	28.42	5.10	29.44	-76.43	-25.00	-51.43	Peak
3	5009.43	-37.85	44.48	6.01	40.19	-27.55	-25.00	-2.55	Peak
4	7527.83	-43.99	48.37	7.81	39.94	-27.75	-25.00	-2.75	Peak
5	10036.73	-47.91	50.64	8.63	39.92	-28.56	-25.00	-3.56	Peak
6	12556.75	-49.61	51.43	10.20	40.93	-28.91	-25.00	-3.91	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	111.37	-78.07	18.62	1.98	30.33	-87.80	-25.00	-62.80	Peak
2	253.59	-78.08	22.94	3.07	29.94	-82.01	-25.00	-57.01	Peak
3	5060.69	-38.63	44.23	6.05	40.13	-28.48	-25.00	-3.48	Peak
4	7604.87	-42.69	47.64	7.87	39.96	-27.14	-25.00	-2.14	Peak
5	10139.45	-52.35	50.76	8.71	39.98	-32.86	-25.00	-7.86	Peak
6	12685.25	-54.45	52.75	10.43	40.78	-32.05	-25.00	-7.05	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	92.76	-79.57	25.85	1.81	30.65	-82.56	-25.00	-57.56	Peak
2	600.20	-80.58	27.43	4.93	29.52	-77.74	-25.00	-52.74	Peak
3	5060.69	-38.85	44.33	6.05	40.13	-28.60	-25.00	-3.60	Peak
4	7604.87	-48.03	48.26	7.87	39.96	-31.86	-25.00	-6.86	Peak
5	10139.45	-47.35	51.02	8.71	39.98	-27.60	-25.00	-2.60	Peak
6	12685.25	-50.79	51.63	10.43	40.78	-29.51	-25.00	-4.51	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	38.78	-74.65	27.60	1.13	30.96	-76.88	-25.00	-51.88	Peak
2	459.44	-80.04	25.86	4.25	29.71	-79.64	-25.00	-54.64	Peak
3	5112.49	-37.27	44.13	6.09	40.07	-27.12	-25.00	-2.12	Peak
4	7663.17	-46.04	47.71	7.92	39.97	-30.38	-25.00	-5.38	Peak
5	10243.22	-51.33	51.03	8.79	40.05	-31.56	-25.00	-6.56	Peak
6	12685.25	-63.77	52.75	10.43	40.78	-41.37	-25.00	-16.37	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	94.74	-79.76	25.82	1.82	30.60	-82.72	-25.00	-57.72	Peak
2	534.44	-79.65	25.54	4.62	29.76	-79.25	-25.00	-54.25	Peak
3	5112.49	-38.42	44.18	6.09	40.07	-28.22	-25.00	-3.22	Peak
4	7682.70	-46.48	48.38	7.94	39.98	-30.14	-25.00	-5.14	Peak
5	10243.22	-47.39	51.40	8.79	40.05	-27.25	-25.00	-2.25	Peak
6	11486.41	-63.20	53.20	9.19	40.21	-41.02	-25.00	-16.02	Peak

LTE Band 12									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	39.75	-97.08	27.74	1.15	0.00	-68.19	-13.00	-55.19	Peak
2	442.01	-94.47	26.02	4.16	0.00	-64.29	-13.00	-51.29	Peak
3	1399.35	-43.13	37.16	3.07	41.31	-44.21	-13.00	-31.21	Peak
4	2097.51	-41.60	40.04	3.80	41.10	-38.86	-13.00	-25.86	Peak
5	2796.57	-41.13	40.70	4.34	41.09	-37.18	-13.00	-24.18	Peak
6	3498.74	-50.98	40.99	5.07	40.93	-45.85	-13.00	-32.85	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	186.10	-93.11	20.29	2.61	0.00	-70.21	-13.00	-57.21	Peak
2	426.73	-93.15	25.45	4.08	0.00	-63.62	-13.00	-50.62	Peak
3	1399.35	-41.62	37.76	3.07	41.31	-42.10	-13.00	-29.10	Peak
4	2097.51	-39.80	40.02	3.80	41.10	-37.08	-13.00	-24.08	Peak
5	2796.57	-38.48	40.65	4.34	41.09	-34.58	-13.00	-21.58	Peak
6	4202.50	-50.69	42.54	5.72	40.37	-42.80	-13.00	-29.80	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	39.75	-94.93	27.74	1.15	0.00	-66.04	-13.00	-53.04	Peak
2	491.19	-93.74	25.35	4.41	0.00	-63.98	-13.00	-50.98	Peak
3	1402.92	-41.34	37.14	3.08	41.31	-42.43	-13.00	-29.43	Peak
4	2108.21	-45.44	40.14	3.82	41.10	-42.58	-13.00	-29.58	Peak
5	2810.85	-46.16	40.75	4.36	41.08	-42.13	-13.00	-29.13	Peak
6	3516.59	-51.46	41.24	5.10	40.95	-46.07	-13.00	-33.07	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	97.78	-95.62	25.78	1.85	0.00	-67.99	-13.00	-54.99	Peak
2	425.24	-94.32	25.43	4.07	0.00	-64.82	-13.00	-51.82	Peak
3	1406.50	-39.68	37.76	3.09	41.30	-40.13	-13.00	-27.13	Peak
4	2108.21	-44.24	40.20	3.82	41.10	-41.32	-13.00	-28.32	Peak
5	2810.85	-42.57	40.70	4.36	41.08	-38.59	-13.00	-25.59	Peak
6	3516.59	-53.14	41.37	5.10	40.95	-47.62	-13.00	-34.62	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	186.75	-96.37	21.63	2.61	0.00	-72.13	-13.00	-59.13	Peak
2	422.26	-95.09	25.99	4.05	0.00	-65.05	-13.00	-52.05	Peak
3	1413.67	-46.87	37.07	3.09	41.31	-48.02	-13.00	-35.02	Peak
4	2118.97	-46.03	40.24	3.84	41.10	-43.05	-13.00	-30.05	Peak
5	2825.19	-46.07	40.77	4.38	41.07	-41.99	-13.00	-28.99	Peak
6	7981.72	-62.37	48.11	8.03	39.94	-46.17	-13.00	-33.17	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	93.74	-96.27	25.84	1.81	0.00	-68.62	-13.00	-55.62	Peak
2	396.36	-95.21	25.17	3.93	0.00	-66.11	-13.00	-53.11	Peak
3	1413.67	-41.26	37.76	3.09	41.31	-41.72	-13.00	-28.72	Peak
4	2118.97	-43.43	40.38	3.84	41.10	-40.31	-13.00	-27.31	Peak
5	2825.19	-42.01	40.72	4.38	41.07	-37.98	-13.00	-24.98	Peak
6	3534.54	-56.28	41.64	5.14	40.97	-50.47	-13.00	-37.47	Peak

LTE Band 13									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	55.51	-96.25	24.10	1.36	0.00	-70.79	-13.00	-57.79	Peak
2	498.14	-94.28	25.46	4.44	0.00	-64.38	-13.00	-51.38	Peak
3	1553.29	-53.11	36.23	3.26	41.69	-55.31	-13.00	-42.31	Peak
4	2334.18	-40.35	40.19	3.99	41.16	-37.33	-13.00	-24.33	Peak
5	3112.13	-54.73	41.23	4.61	40.87	-49.76	-13.00	-36.76	Peak
6	3883.62	-55.99	41.78	5.31	40.46	-49.36	-13.00	-36.36	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	91.78	-96.11	25.86	1.80	0.00	-68.45	-13.00	-55.45	Peak
2	434.30	-95.10	25.54	4.12	0.00	-65.44	-13.00	-52.44	Peak
3	1553.29	-54.22	37.76	3.26	41.69	-54.89	-13.00	-41.89	Peak
4	2334.18	-40.52	40.09	3.99	41.16	-37.60	-13.00	-24.60	Peak
5	3112.13	-52.84	41.28	4.61	40.87	-47.82	-13.00	-34.82	Peak
6	3883.62	-57.96	41.81	5.31	40.46	-51.30	-13.00	-38.30	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	63.22	-96.11	21.96	1.46	0.00	-72.69	-13.00	-59.69	Peak
2	411.99	-94.74	25.76	4.00	0.00	-64.98	-13.00	-51.98	Peak
3	1553.29	-43.65	36.23	3.26	41.69	-45.85	-13.00	-32.85	Peak
4	2334.18	-42.10	40.19	3.99	41.16	-39.08	-13.00	-26.08	Peak
5	3112.13	-45.45	41.23	4.61	40.87	-40.48	-13.00	-27.48	Peak
6	3883.62	-54.45	41.78	5.31	40.46	-47.82	-13.00	-34.82	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	91.78	-94.25	25.86	1.80	0.00	-66.59	-13.00	-53.59	Peak
2	501.66	-94.01	26.22	4.45	0.00	-63.34	-13.00	-50.34	Peak
3	1553.29	-45.52	37.76	3.26	41.69	-46.19	-13.00	-33.19	Peak
4	2334.18	-40.55	40.09	3.99	41.16	-37.63	-13.00	-24.63	Peak
5	3112.13	-41.48	41.28	4.61	40.87	-36.46	-13.00	-23.46	Peak
6	3883.62	-54.68	41.81	5.31	40.46	-48.02	-13.00	-35.02	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	64.35	-95.63	21.10	1.48	0.00	-73.05	-13.00	-60.05	Peak
2	377.32	-95.04	24.90	3.81	0.00	-66.33	-13.00	-53.33	Peak
3	1553.29	-55.73	36.23	3.26	41.69	-57.93	-13.00	-44.93	Peak
4	2334.18	-41.92	40.19	3.99	41.16	-38.90	-13.00	-25.90	Peak
5	3112.13	-54.86	41.23	4.61	40.87	-49.89	-13.00	-36.89	Peak
6	5588.88	-62.90	43.74	6.49	39.59	-52.26	-13.00	-39.26	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	92.76	-97.29	25.85	1.81	0.00	-69.63	-13.00	-56.63	Peak
2	428.24	-94.76	25.47	4.09	0.00	-65.20	-13.00	-52.20	Peak
3	1553.29	-55.22	37.76	3.26	41.69	-55.89	-13.00	-42.89	Peak
4	2334.18	-41.35	40.09	3.99	41.16	-38.43	-13.00	-25.43	Peak
5	3112.13	-53.32	41.28	4.61	40.87	-48.30	-13.00	-35.30	Peak
6	3893.52	-60.02	41.79	5.32	40.44	-53.35	-13.00	-40.35	Peak

LTE Band 17									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	66.18	-96.69	19.72	1.50	0.00	-75.47	-13.00	-62.47	Peak
2	428.24	-95.50	26.01	4.09	0.00	-65.40	-13.00	-52.40	Peak
3	1410.08	-51.23	37.10	3.09	41.30	-52.34	-13.00	-39.34	Peak
4	2113.59	-50.62	40.19	3.83	41.10	-47.70	-13.00	-34.70	Peak
5	4234.72	-63.06	42.40	5.76	40.43	-55.33	-13.00	-42.33	Peak
6	8104.56	-63.70	47.75	8.05	39.91	-47.81	-13.00	-34.81	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	88.93	-96.69	25.42	1.77	0.00	-69.50	-13.00	-56.50	Peak
2	397.75	-95.17	25.20	3.93	0.00	-66.04	-13.00	-53.04	Peak
3	1410.08	-51.12	37.76	3.09	41.30	-51.57	-13.00	-38.57	Peak
4	2113.59	-50.43	40.29	3.83	41.10	-47.41	-13.00	-34.41	Peak
5	4501.49	-63.08	43.26	5.87	40.43	-54.38	-13.00	-41.38	Peak
6	9088.19	-63.13	49.11	8.44	39.96	-45.54	-13.00	-32.54	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	109.43	-94.60	18.93	1.96	0.00	-73.71	-13.00	-60.71	Peak
2	459.44	-93.38	25.86	4.25	0.00	-63.27	-13.00	-50.27	Peak
3	1410.08	-47.88	37.10	3.09	41.30	-48.99	-13.00	-35.99	Peak
4	2113.59	-47.70	40.19	3.83	41.10	-44.78	-13.00	-31.78	Peak
5	2825.19	-47.91	40.77	4.38	41.07	-43.83	-13.00	-30.83	Peak
6	7961.43	-62.94	48.08	8.03	39.95	-46.78	-13.00	-33.78	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	93.74	-96.56	25.84	1.81	0.00	-68.91	-13.00	-55.91	Peak
2	445.13	-94.44	25.44	4.18	0.00	-64.82	-13.00	-51.82	Peak
3	1410.08	-44.18	37.76	3.09	41.30	-44.63	-13.00	-31.63	Peak
4	2113.59	-44.14	40.29	3.83	41.10	-41.12	-13.00	-28.12	Peak
5	2825.19	-43.53	40.72	4.38	41.07	-39.50	-13.00	-26.50	Peak
6	5560.50	-61.98	43.94	6.46	39.64	-51.22	-13.00	-38.22	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	45.75	-96.55	25.22	1.24	0.00	-70.09	-13.00	-57.09	Peak
2	464.31	-93.35	25.70	4.28	0.00	-63.37	-13.00	-50.37	Peak
3	1410.08	-51.34	37.10	3.09	41.30	-52.45	-13.00	-39.45	Peak
4	2113.59	-51.36	40.19	3.83	41.10	-48.44	-13.00	-35.44	Peak
5	3700.26	-62.18	42.29	5.22	40.76	-55.43	-13.00	-42.43	Peak
6	8681.17	-63.41	47.98	8.30	40.13	-47.26	-13.00	-34.26	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	93.74	-95.92	25.84	1.81	0.00	-68.27	-13.00	-55.27	Peak
2	510.56	-94.23	26.01	4.50	0.00	-63.72	-13.00	-50.72	Peak
3	1410.08	-51.41	37.76	3.09	41.30	-51.86	-13.00	-38.86	Peak
4	2113.59	-50.50	40.29	3.83	41.10	-47.48	-13.00	-34.48	Peak
5	5379.50	-63.48	44.09	6.31	39.80	-52.88	-13.00	-39.88	Peak
6	7376.08	-61.94	48.60	7.68	39.88	-45.54	-13.00	-32.54	Peak

LTE Band 66									
Test channel:		Low			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	171.04	-78.05	21.23	2.49	30.28	-84.61	-13.00	-71.61	Peak
2	417.82	-77.53	25.92	4.03	29.85	-77.43	-13.00	-64.43	Peak
3	3428.21	-28.59	39.99	4.93	40.85	-24.52	-13.00	-11.52	Peak
4	5151.68	-49.94	44.05	6.12	40.02	-39.79	-13.00	-26.79	Peak
5	6868.65	-35.52	47.06	7.40	39.40	-20.46	-13.00	-7.46	Peak
6	8593.22	-51.19	47.37	8.27	40.16	-35.71	-13.00	-22.71	Peak
Test channel:		Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	91.78	-80.21	25.86	1.80	30.67	-83.22	-13.00	-70.22	Peak
2	449.85	-80.46	25.28	4.20	29.90	-80.88	-13.00	-67.88	Peak
3	3428.21	-25.89	40.01	4.93	40.85	-21.80	-13.00	-8.80	Peak
4	5151.68	-47.72	44.06	6.12	40.02	-37.56	-13.00	-24.56	Peak
5	6868.65	-40.55	47.39	7.40	39.40	-25.16	-13.00	-12.16	Peak
6	8593.22	-53.52	47.74	8.27	40.16	-37.67	-13.00	-24.67	Peak

Test channel:		Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-76.08	26.96	1.18	30.95	-78.89	-13.00	-65.89	Peak
2	850.14	-79.83	29.76	6.01	28.97	-73.03	-13.00	-60.03	Peak
3	3480.97	-29.92	40.74	5.03	40.91	-25.06	-13.00	-12.06	Peak
4	5217.66	-48.11	43.96	6.18	39.94	-37.91	-13.00	-24.91	Peak
5	6974.36	-34.25	47.53	7.38	39.46	-18.80	-13.00	-5.80	Peak
6	8703.29	-54.02	48.14	8.31	40.12	-37.69	-13.00	-24.69	Peak
Test channel:		Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	107.14	-78.54	24.80	1.94	30.37	-82.17	-13.00	-69.17	Peak
2	688.42	-78.55	28.59	5.32	29.32	-73.96	-13.00	-60.96	Peak
3	3480.97	-28.45	40.83	5.03	40.91	-23.50	-13.00	-10.50	Peak
4	5217.66	-48.05	43.94	6.18	39.94	-37.87	-13.00	-24.87	Peak
5	6974.36	-41.21	47.36	7.38	39.46	-25.93	-13.00	-12.93	Peak
6	8703.29	-55.22	48.68	8.31	40.12	-38.35	-13.00	-25.35	Peak

Test channel:		High			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	64.80	-81.71	20.76	1.48	30.66	-90.13	-13.00	-77.13	Peak
2	641.67	-80.85	28.96	5.11	29.45	-76.23	-13.00	-63.23	Peak
3	3534.54	-30.93	41.49	5.14	40.97	-25.27	-13.00	-12.27	Peak
4	5297.97	-41.07	44.01	6.24	39.87	-30.69	-13.00	-17.69	Peak
5	7063.69	-31.76	47.72	7.38	39.53	-16.19	-13.00	-3.19	Peak
6	10614.84	-59.80	51.97	8.95	40.31	-39.19	-13.00	-26.19	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	92.76	-80.20	25.85	1.81	30.65	-83.19	-13.00	-70.19	Peak
2	337.16	-80.25	24.57	3.59	29.94	-82.03	-13.00	-69.03	Peak
3	3534.54	-27.62	41.64	5.14	40.97	-21.81	-13.00	-8.81	Peak
4	5297.97	-44.63	44.01	6.24	39.87	-34.25	-13.00	-21.25	Peak
5	7063.69	-39.82	47.76	7.38	39.53	-24.21	-13.00	-11.21	Peak
6	10614.84	-60.09	52.43	8.95	40.31	-39.02	-13.00	-26.02	Peak

6. TEST SETUP PHOTOS OF THE EUT

Refer to the test report No.: CHTW24100045

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTW24100045

8. APPENDIX REPORT