

FCC REPORT

(LTE)

Applicant: Orpyx Medical Technologies Inc.

Address of Applicant: Suite 205, 1240 – 20th Avenue S.E. Calgary, AB T2G 1M8
Canada

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: OSIDDV1

Trade mark: Orpyx

FCC ID: 2AAH8-OSIDDV1

Applicable standards: 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 Subpart E & L & M & N & H
FCC CFR Title 47 Part 90S

Date of sample receipt: 11 Nov., 2021

Date of Test: 12 Nov., to 24 Dec., 2021

Date of report issued: 10 Jan., 2022

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	10 Jan., 2022	Original

Tested by: Janet Wei **Date:** 10 Jan., 2022
Test Engineer

Reviewed by: Winner Zhang **Date:** 10 Jan., 2022
Project Engineer

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4. Test Summary

Test Items	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	Appendix A – LTE
Peak-to-Average Ratio	Part 24.232 (d) Part 22.913 (d) Part 27.50(d)(5)	Appendix B – LTE
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(g) Part 27.53(h) Part 27.53(m)	Appendix C – LTE
Out of band emission at antenna terminals	Part 2.1053 Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m)	Appendix D – LTE Appendix E – LTE
Field strength of spurious radiation	Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m)	Pass
Frequency stability vs. temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Appendix F – LTE
Frequency stability vs. voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Appendix F – LTE
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer).		
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015	

5. General Information

5.1 Client Information

Applicant:	Orpyx Medical Technologies Inc.
Address:	Suite 205, 1240 – 20th Avenue S.E. Calgary, AB T2G 1M8 Canada
Manufacturer/Factory:	Orpyx Medical Technologies Inc.
Address:	Suite 205, 1240 – 20th Avenue S.E. Calgary, AB T2G 1M8 Canada

5.2 General Description of E.U.T.

Product Name:	Mobile Phone		
Model No.:	OSIDDV1		
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz RX: 1930MHz-1990MHz LTE Band 4: TX: 1710MHz-1755MHz RX: 2110MHz-2155MHz LTE Band 5: TX: 824MHz-849MHz RX: 869MHz-894MHz LTE Band 12: TX: 699MHz-716MHz RX: 729MHz-746MHz LTE Band 13: TX: 746MHz-756MHz RX: 777MHz-787MHz LTE Band 25: TX: 1850MHz-1915MHz RX: 1930MHz-1995MHz LTE Band 26: TX: 814MHz-849MHz RX: 859MHz-894MHz LTE Band 41: TX: 2535MHz-2655MHz RX: 2535 MHz-2655 MHz LTE Band 66: TX: 1710MHz-1780MHz RX: 2110MHz-2200MHz LTE Band 71: TX: 617MHz-652MHz RX: 663MHz-698MHz		
Modulation type:	☒ QPSK	☒ 16QAM	☒ 64QAM
Antenna type:	Internal Antenna		
Antenna gain:	LTE Band 2: 1.45 dBi(declare by Applicant) LTE Band 4: 1.43 dBi(declare by Applicant) LTE Band 5: 0.75 dBi(declare by Applicant) LTE Band 12: -0.26 dBi(declare by Applicant) LTE Band 13: -0.15 dBi(declare by Applicant) LTE Band 25: 1.44 dBi(declare by Applicant) LTE Band 26: 0.78 dBi(declare by Applicant) LTE Band 41: 1.56 dBi(declare by Applicant) LTE Band 66: 1.43 dBi(declare by Applicant) LTE Band 71: -0.37 dBi(declare by Applicant)		
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2400mAh		
AC adapter:	Model: MST-0501000-FCC Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1000mA		
Test Sample Condition:	The applicant provided engineering samples for staying in continuously transmitting for testing.		

Operation Frequency List:

LTE Band 2 (1.4MHz)		LTE Band 2 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18607	1850.70	18615	1851.50
18608	1850.80	18616	1851.60
....			
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19193	1909.20	19185	1908.40
19194	1909.30	19186	1908.50
LTE Band 2 (5MHz)		LTE Band 2 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18625	1852.50	18650	1855.00
18626	1852.60	18651	1855.10
....			
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19175	1907.40	19150	1904.90
19176	1907.50	19151	1905.00
LTE Band 2 (15MHz)		LTE Band 2 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18675	1857.50	18700	1860.00
18676	1857.60	18701	1860.10
....			
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19125	1902.40	19100	1899.90
19126	1902.50	19101	1900.00

LTE Band 4 (1.4MHz)		LTE Band 4 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19957	1710.70	19965	1711.50
19958	1710.80	19966	1711.60
....			
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20392	1754.20	20384	1753.40
20393	1754.30	20385	1753.50
LTE Band 4 (5MHz)		LTE Band 4 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19975	1712.50	20000	1715.00
19976	1712.60	20001	1715.10
....			
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20374	1752.40	20349	1749.90
20375	1752.50	20350	1750.00
LTE Band 4 (15MHz)		LTE Band 4 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20025	1717.50	20050	1720.00
20026	1717.60	20051	1720.10
....			
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20324	1747.40	20299	1744.90
20325	1747.50	20300	1745.00

LTE Band 5 (1.4MHz)		LTE Band 5 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20407	824.70	20415	825.50
20408	824.80	20416	825.60
....			
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
...	...	...	...
20642	848.20	20634	847.40
20643	848.30	20635	847.50
LTE Band 5 (5MHz)		LTE Band 5 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20425	826.50	20450	829.00
20426	826.60	20451	829.10
....			
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
...	...	...	...
20624	846.40	20599	839.90
20625	846.50	20600	844.00

LTE Band 12 (1.4MHz)		LTE Band 12 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23017	699.70	23025	700.50
23756	699.80	23026	700.60
....			
23094	707.40	23094	707.40
23095	707.50	23095	707.50
23096	707.60	23096	707.60
...	...	...	...
23172	715.20	23164	714.40
23173	715.30	23165	714.50
LTE Band 12 (5MHz)		LTE Band 12 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23035	701.50	23060	704.00
23036	701.60	23061	704.10
....			
23094	707.40	23094	707.40
23095	707.50	23095	707.50
23096	707.60	23096	707.60
...	...	...	...
23154	713.40	23129	710.90
23155	713.50	23130	711.00

LTE Band 13 (5MHz)		LTE Band 13 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23205	779.50	/	/
23206	779.60	/	/
....		/	/
23229	781.90	/	/
23230	782.00	23230	782.00
23231	782.10	/	/
...	...	/	/
23255	784.50	/	/
23256	784.60	/	/

LTE Band 25 (1.4MHz)		LTE Band 25 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26047	1850.70	26055	1851.50
26048	1850.80	26056	1851.60
....			
26364	1882.40	26367	1882.40
26365	1882.50	26365	1882.50
26366	1882.60	26366	1882.60
...	...	...	...
26682	1914.20	26676	1913.40
26683	1914.30	26675	1913.50
LTE Band 25 (5MHz)		LTE Band 25 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26065	1852.50	26090	1855.00
26066	1852.60	26091	1855.10
....			
26364	1882.40	26364	1882.40
26365	1882.50	26365	1882.50
26366	1882.60	26366	1882.60
...	...	...	...
26664	1912.40	26639	1909.90
26665	1912.50	26640	1910.00
LTE Band 25 (15MHz)		LTE Band 25 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26115	1857.50	26140	1860.00
26116	1857.60	26139	1860.10
....			
26364	1882.40	26364	1882.40
26365	1882.50	26365	1882.50
36366	1882.60	26366	1882.60
...	...	...	...
26614	1907.40	26589	1904.90
26615	1907.50	26590	1905.00

LTE Band 26 (1.4MHz)		LTE Band 26 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26697	814.70	26705	815.50
26698	814.80	26706	815.60
....			
26864	831.40	26864	831.40
26865	831.50	26865	831.50
26866	831.60	26866	831.60
...	...	...	...
27032	848.20	27024	847.40
27033	848.30	27025	847.50
LTE Band 26 (5MHz)		LTE Band 26 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
26715	816.50	26750	820.00
26716	816.60	26760	820.10
....			
26864	831.40	26864	831.40
26865	831.50	26865	831.50
26866	831.60	26866	831.60
...	...	...	...
27014	846.40	26980	843.90
27015	846.50	26990	844.00
LTE Band 26 (15MHz)			
Channel	Frequency (MHz)		
26775	822.50		
26776	822.60		
....			
26864	831.40		
26865	831.50		
26866	831.60		
...	...		
26964	841.40		
26965	841.50		

LTE Band 41 (5MHz)		LTE Band 41 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
40065	2537.50	40090	2540.00
40066	2537.60	40091	2540.10
....			
40639	2594.90	40639	2594.90
40640	2595.00	40640	2595.00
40641	2595.10	40641	2595.10
...	...	...	...
41214	2652.40	41189	2649.90
41215	2652.50	41190	2650.00
LTE Band 41 (15MHz)		LTE Band 41 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
40115	2542.50	40140	2545.00
40116	2542.60	40141	2545.10
....			
40639	2594.90	40639	2594.90
40640	2595.00	40640	2595.00
40641	2595.10	40641	2595.10
...	...	...	...
41164	2647.40	41139	2644.90
41165	2647.50	41140	2645.00

LTE Band 66 (1.4MHz)		LTE Band 66 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
131979	1710.70	131987	1711.50
131980	1710.80	131988	1711.60
....			
132321	1744.90	132321	1744.90
132322	1745.00	132322	1745.00
132323	1745.10	132323	1745.10
...	...	...	...
132664	1779.20	132656	1778.40
132665	1779.30	132657	1778.50
LTE Band 66 (5MHz)		LTE Band 66 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
131997	1712.50	132022	1715.00
131998	1712.60	132023	1715.10
....			
132321	1744.90	132321	1744.90
132322	1745.00	132322	1745.00
132323	1745.10	132323	1745.10
...	...	...	...
136246	1777.40	132621	1774.90
136247	1777.50	132622	1775.00
LTE Band 66 (15MHz)		LTE Band 66 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
132047	1717.50	132072	1720.00
132048	1717.60	132073	1720.10
....			
132321	1744.90	132321	1744.90
132322	1745.00	132322	1745.00
132323	1745.10	132323	1745.10
...	...	...	...
132596	1772.40	132571	1769.90
132597	1772.50	132572	1770.00

LTE Band 71 (5MHz)		LTE Band 71 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
133147	665.5	133172	668.0
133148	665.6	133173	668.1
....			
133297	680.5	133297	680.5
133298	680.6	133298	680.6
133299	680.7	133299	680.7
...	...	...	...
133447	695.5	133422	693.0
133448	695.6	133423	693.1
LTE Band 71 (15MHz)		LTE Band 71 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
133197	670.5	133222	673.0
133198	670.6	133223	673.1
....			
133297	680.5	133322	683.0
133298	680.6	133323	683.1
133299	680.7	133324	683.2
...	...	...	...
133397	690.5	133372	688.0
133398	690.6	133373	688.1

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

LTE Band 5 (1.4MHz)			LTE Band 5 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20407	824.70	Lowest channel	20415	825.50
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20643	848.30	Highest channel	20635	847.50
LTE Band 5 (5MHz)			LTE Band 5 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20425	826.50	Lowest channel	20450	829.00
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20625	846.50	Highest channel	20600	844.00

LTE Band 12(1.4MHz)			LTE Band 12(3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23017	699.70	Lowest channel	23025	700.50
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23173	715.30	Highest channel	23165	714.50
LTE Band 12(5MHz)			LTE Band 12(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23035	701.50	Lowest channel	23060	704.00
Middle channel	23095	707.50	Middle channel	23095	707.50
Highest channel	23155	713.50	Highest channel	23130	711.00

LTE Band 13(5MHz)			LTE Band 13(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23205	779.5	Lowest channel	/	/
Middle channel	23230	782.0	Middle channel	23230	782.00
Highest channel	23255	784.5	Highest channel	/	/

LTE Band 25 includes LTE Band 2:

LTE Band 25 (1.4MHz)			LTE Band 25 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26047	1850.70	Lowest channel	26055	1851.50
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26683	1914.30	Highest channel	26675	1913.50
LTE Band 25 (5MHz)			LTE Band 25 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26065	1852.50	Lowest channel	26090	1855.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26665	1912.50	Highest channel	26640	1910.00
LTE Band 25 (15MHz)			LTE Band 25 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26115	1857.50	Lowest channel	26140	1860.00
Middle channel	26365	1882.50	Middle channel	26365	1882.50
Highest channel	26615	1907.50	Highest channel	26590	1905.00

LTE Band 26(Part 22):

LTE Band 26(1.4MHz) for Part 22			LTE Band 26(1.4MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26797	824.7	Lowest channel	26697	814.7
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	27033	848.3	Highest channel	26783	823.3
LTE Band 26(3MHz) for Part 22			LTE Band 26(3MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26805	825.5	Lowest channel	26705	815.5
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	27025	847.5	Highest channel	26775	822.5
LTE Band 26(5MHz) for Part 22			LTE Band 26(5MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26815	826.5	Lowest channel	26715	816.5
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	27015	846.5	Highest channel	26765	821.5
LTE Band 26(10MHz) for Part 22			LTE Band 26(10MHz) for Part 90		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	26840	829.0	Lowest channel	/	/
Middle channel	26915	836.5	Middle channel	26740	819.0
Highest channel	26990	844.0	Highest channel	/	/
LTE Band 26(15MHz) for Part 22H					
Channel		Frequency (MHz)			
Lowest channel	26865	831.5			
Middle Channel	26915	836.5			
Highest channel	26965	841.5			

LTE Band 41 (5MHz)			LTE Band 41 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	40065	2537.50	Lowest channel	40090	2540.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41215	2652.50	Highest channel	41190	2650.00
LTE Band 41 (15MHz)			LTE Band 41 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	40115	2542.50	Lowest channel	40140	2545.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41165	2647.50	Highest channel	41140	2645.00

LTE Band 66 includes LTE Band 4:

LTE Band 66 (1.4MHz)			LTE Band 66 (3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	131979	1710.7	Lowest channel	131987	1711.5
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132665	1779.3	Highest channel	132657	1778.5
LTE Band 66 (5MHz)			LTE Band 66 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	131997	1712.5	Lowest channel	132022	1715.0
Middle channel	132322	1745.5	Middle channel	132322	1745.0
Highest channel	132647	1777.5	Highest channel	132622	1775.0
LTE Band 66 (15MHz)			LTE Band 66 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	132047	1717.5	Lowest channel	132072	1720.0
Middle channel	132322	1745.0	Middle channel	132322	1745.0
Highest channel	132597	1772.5	Highest channel	132572	1770.0

LTE Band 71 (5MHz)			LTE Band 71 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	133147	665.5	Lowest channel	133172	668.0
Middle channel	133297	680.5	Middle channel	133297	680.5
Highest channel	133447	695.5	Highest channel	133422	693.0
LTE Band 71 (15MHz)			LTE Band 71 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	133197	670.5	Lowest channel	133222	673.0
Middle channel	133297	680.5	Middle channel	133297	680.5
Highest channel	133397	690.5	Highest channel	133372	688.0

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.8Vdc, Extreme: Low 3.5Vdc, High 4.35Vdc
Test mode:	
LTE QPSK mode	Keep the EUT communication with simulated station in QPSK mode
LTE 16-QAM mode	Keep the EUT communication with simulated station in 16-QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.	

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.
--

5.7 Additions to, deviations, or exclusions from the method

No

5.8 Laboratory Facility

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

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

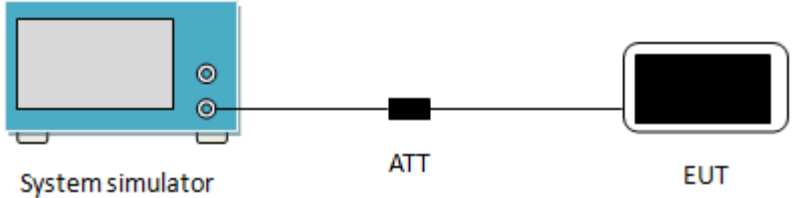
5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA 0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9020B	MY57431500	07-02-2021	07-01-2022
Simulated Station	Rohde & Schwarz	CMW500	108209	07-02-2021	07-01-2022
RF Control Unit	Tonscend	JS0806-1	N/A	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	21A8060360	N/A	N/A
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

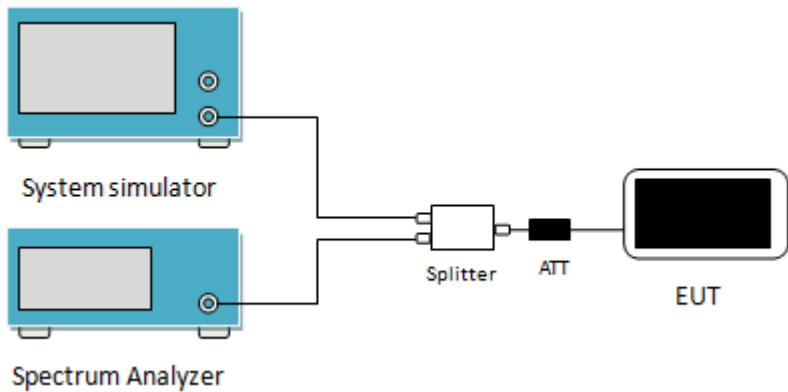
6. Test results

6.1 Conducted Output Power, ERP and EIRP

Test Requirement:	Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)(2)
Limit:	LTE Band 2/25: 2W, LTE Band 4/66: 1W, LTE Band 5/26: 7W, LTE Band 41: 2W, LTE Band 12/13/71: 3W
Test Setup:	 The diagram illustrates the test setup. On the left is a blue box labeled 'System simulator'. A line connects it to a black box labeled 'ATT' (attenuator). Another line connects the 'ATT' box to a black box labeled 'EUT' (Equipment Under Test).
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

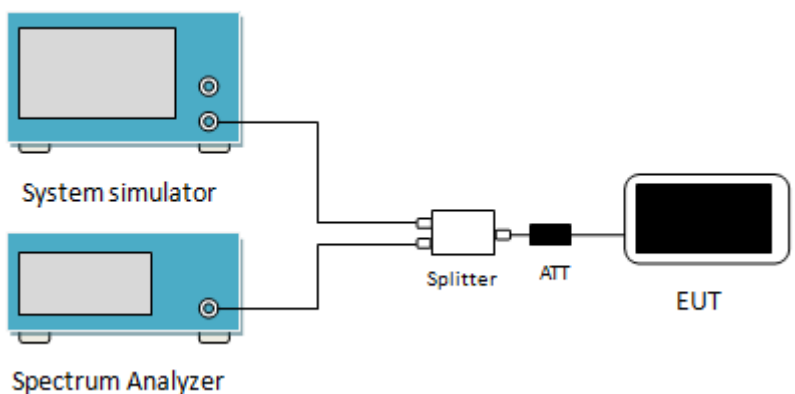
Measurement Data: Refer to Appendix A – LTE

6.2 Peak-to-Average Ratio

Test Requirement:	Part 24.232 (d), Part 27.50(d)(5)
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram shows a test setup for measuring Peak-to-Average Ratio (PAR). It includes a System simulator, a Spectrum Analyzer, a Splitter, an ATT (Attenuator), and the EUT (Equipment Under Test). The System simulator and Spectrum Analyzer are connected to the Splitter. The Splitter is connected to the ATT, which is then connected to the EUT.
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, $RBW \geq OBW$, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

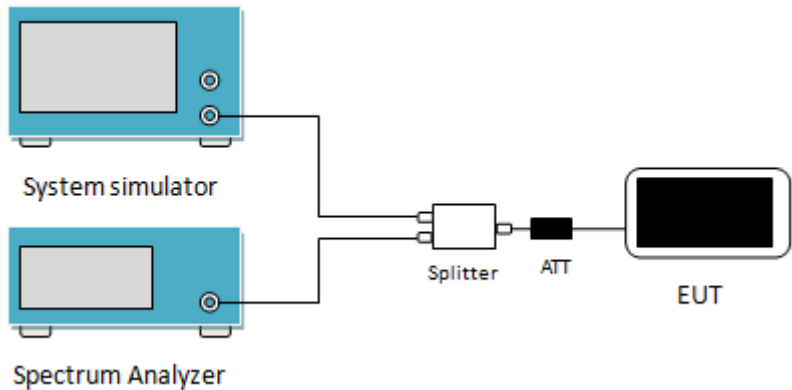
Measurement Data: Refer to Appendix B – LTE

6.3 Occupy Bandwidth

Test Requirement:	Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h), Part 27.53(m)
Test Setup:	 The diagram shows a test setup for measuring occupied bandwidth. A System simulator and a Spectrum Analyzer are connected to a Splitter. The Splitter is connected to an ATT (Attenuator) and then to the EUT (Equipment Under Test).
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Appendix C – LTE

6.4 Out of band emission at antenna terminals

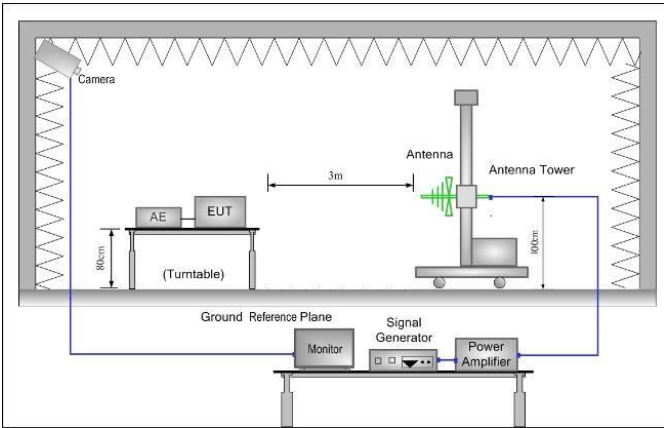
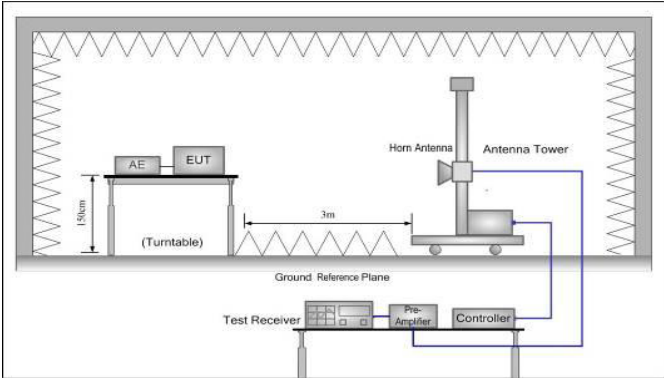
Test Requirement:	Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m)
Limit:	LTE Band 2 & 4 & 5 & 12 & 13& 25 & 26 & 66 & 71: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 41: 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 that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
Test Setup:	 The diagram shows a test setup where a System simulator and a Spectrum Analyzer are connected to a Splitter. The Splitter is connected to an ATT (Attenuator) and then to the EUT (Equipment Under Test).
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 For the out of band: For Band 5 & 12 & 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 & 4 & 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

Measurement Data:

Band edge emission: Refer to Appendix D – LTE

Spurious emission: Refer to Appendix E – LTE

6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(a), Part 24.238 (a), Part 27.53(g), Part 27.53(m), Part 27.53(h)
Limit:	LTE Band 2 & 4 & 5 & 12 & 13 & 25& 26 & 66 & 71. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 7: 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 that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission

	was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data:
L LTE Band 5 part:

Band 5 (1.4MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1649.40	-48.60	-11.10	-59.70	-13.00	46.70	Vertical
2474.10	-49.22	-6.20	-55.42	-13.00	42.42	Vertical
3298.80	-48.50	-4.96	-53.46	-13.00	40.46	Vertical
1649.40	-48.43	-11.00	-59.43	-13.00	46.43	Horizontal
2474.10	-48.11	-6.54	-54.65	-13.00	41.65	Horizontal
3298.80	-48.52	-5.25	-53.77	-13.00	40.77	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1673.30	-48.88	-11.13	-60.01	-13.00	47.01	Vertical
2509.50	-49.35	-6.20	-55.55	-13.00	42.55	Vertical
3346.00	-48.35	-5.03	-53.38	-13.00	40.38	Vertical
1673.30	-48.38	-11.04	-59.42	-13.00	46.42	Horizontal
2509.50	-47.75	-6.51	-54.26	-13.00	41.26	Horizontal
3346.00	-48.10	-5.23	-53.33	-13.00	40.33	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1696.60	-49.24	-11.15	-60.39	-13.00	47.39	Vertical
2544.90	-49.01	-6.07	-55.08	-13.00	42.08	Vertical
3393.20	-48.83	-5.09	-53.92	-13.00	40.92	Vertical
1696.60	-48.37	-11.09	-59.46	-13.00	46.46	Horizontal
2544.90	-47.49	-6.38	-53.87	-13.00	40.87	Horizontal
3393.20	-47.74	-5.20	-52.94	-13.00	39.94	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 5 (10MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1658.00	-49.09	-11.11	-60.20	-13.00	47.20	Vertical
2487.00	-49.42	-6.22	-55.64	-13.00	42.64	Vertical
3316.00	-49.04	-4.98	-54.02	-13.00	41.02	Vertical
1658.00	-48.65	-11.02	-59.67	-13.00	46.67	Horizontal
2487.00	-47.79	-6.54	-54.33	-13.00	41.33	Horizontal
3316.00	-47.70	-5.24	-52.94	-13.00	39.94	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1673.30	-48.65	-11.13	-59.78	-13.00	46.78	Vertical
2509.50	-49.26	-6.20	-55.46	-13.00	42.46	Vertical
3346.00	-49.46	-5.03	-54.49	-13.00	41.49	Vertical
1673.30	-48.28	-11.05	-59.33	-13.00	46.33	Horizontal
2509.50	-47.50	-6.51	-54.01	-13.00	41.01	Horizontal
3346.00	-47.89	-5.23	-53.12	-13.00	40.12	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1688.00	-49.47	-11.14	-60.61	-13.00	47.61	Vertical
2532.00	-49.55	-6.11	-55.66	-13.00	42.66	Vertical
3376.00	-49.86	-5.07	-54.93	-13.00	41.93	Vertical
1688.00	-47.81	-11.07	-58.88	-13.00	45.88	Horizontal
2532.00	-47.90	-6.42	-54.32	-13.00	41.32	Horizontal
3376.00	-48.00	-5.21	-53.21	-13.00	40.21	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 12 part:

Band 12 (1.4MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1399.40	-47.23	-8.61	-55.84	-13.00	42.84	Vertical
2099.10	-48.23	-7.11	-55.34	-13.00	42.34	Vertical
2798.80	-48.81	-5.44	-54.25	-13.00	41.25	Vertical
1399.40	-47.68	-9.09	-56.77	-13.00	43.77	Horizontal
2099.10	-48.60	-6.80	-55.40	-13.00	42.40	Horizontal
2798.80	-48.36	-5.44	-53.80	-13.00	40.80	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1415.00	-47.23	-8.88	-56.11	-13.00	43.11	Vertical
2122.50	-47.81	-6.68	-54.49	-13.00	41.49	Vertical
2830.00	-49.12	-5.32	-54.44	-13.00	41.44	Vertical
1415.00	-48.09	-9.31	-57.40	-13.00	44.40	Horizontal
2122.50	-48.95	-6.49	-55.44	-13.00	42.44	Horizontal
2830.00	-48.39	-5.38	-53.77	-13.00	40.77	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1430.60	-47.46	-9.15	-56.61	-13.00	43.61	Vertical
2145.90	-47.34	-6.20	-53.54	-13.00	40.54	Vertical
2861.20	-48.75	-5.20	-53.95	-13.00	40.95	Vertical
1430.60	-48.23	-9.54	-57.77	-13.00	44.77	Horizontal
2145.90	-49.01	-6.15	-55.16	-13.00	42.16	Horizontal
2861.20	-48.21	-5.32	-53.53	-13.00	40.53	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 12 (10MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1408.00	-47.13	-8.75	-55.88	-13.00	42.88	Vertical
2112.00	-47.59	-6.85	-54.44	-13.00	41.44	Vertical
2816.00	-48.71	-5.37	-54.08	-13.00	41.08	Vertical
1408.00	-48.56	-9.21	-57.77	-13.00	44.77	Horizontal
2112.00	-49.03	-6.62	-55.65	-13.00	42.65	Horizontal
2816.00	-47.91	-5.40	-53.31	-13.00	40.31	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1415.00	-46.81	-8.88	-55.69	-13.00	42.69	Vertical
2122.50	-47.57	-6.88	-54.45	-13.00	41.45	Vertical
2830.00	-48.53	-5.32	-53.85	-13.00	40.85	Vertical
1415.00	-48.88	-9.31	-58.19	-13.00	45.19	Horizontal
2122.50	-49.28	-6.49	-55.77	-13.00	42.77	Horizontal
2830.00	-47.92	-5.38	-53.30	-13.00	40.30	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1422.00	-47.02	-9.00	-56.02	-13.00	43.02	Vertical
2133.00	-47.85	-6.46	-54.31	-13.00	41.31	Vertical
2844.00	-48.07	-5.27	-53.34	-13.00	40.34	Vertical
1422.00	-48.63	-9.41	-58.04	-13.00	45.04	Horizontal
2133.00	-49.15	-6.33	-55.48	-13.00	42.48	Horizontal
2844.00	-47.96	-5.35	-53.31	-13.00	40.31	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 13 part:

Band 13 (5MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1559.00	-46.80	-10.73	-57.53	-13.00	44.53	Vertical
2338.50	-47.24	-5.66	-52.90	-13.00	39.90	Vertical
3118.00	-48.14	-3.84	-51.98	-13.00	38.98	Vertical
1559.00	-47.19	-10.75	-57.94	-13.00	44.94	Horizontal
2338.50	-46.34	-5.90	-52.24	-13.00	39.24	Horizontal
3118.00	-46.48	-3.87	-50.35	-13.00	37.35	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1564.00	-47.01	-10.79	-57.80	-13.00	44.80	Vertical
2346.00	-47.18	-5.71	-52.89	-13.00	39.89	Vertical
3128.00	-48.48	-3.86	-52.34	-13.00	39.34	Vertical
1564.00	-46.90	-10.77	-57.67	-13.00	44.67	Horizontal
2346.00	-46.74	-5.98	-52.72	-13.00	39.72	Horizontal
3128.00	-46.55	-3.88	-50.43	-13.00	37.43	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1569.00	-47.38	-10.83	-58.21	-13.00	45.21	Vertical
2353.50	-46.85	-5.76	-52.61	-13.00	39.61	Vertical
3138.00	-48.24	-3.89	-52.13	-13.00	39.13	Vertical
1569.00	-47.16	-10.79	-57.95	-13.00	44.95	Horizontal
2353.50	-46.75	-6.06	-52.81	-13.00	39.81	Horizontal
3138.00	-46.32	-3.89	-50.21	-13.00	37.21	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 13 (10MHz)						
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1564.00	-47.49	-10.79	-58.28	-13.00	45.28	Vertical
2346.00	-46.99	-5.71	-52.70	-13.00	39.70	Vertical
3128.00	-48.34	-3.86	-52.20	-13.00	39.20	Vertical
1564.00	-47.03	-10.77	-57.80	-13.00	44.80	Horizontal
2346.00	-47.18	-5.98	-53.16	-13.00	40.16	Horizontal
3128.00	-46.99	-3.88	-50.87	-13.00	37.87	Horizontal
<i>Remark:</i> The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 25 part includes LTE Band 2:

Band 25 (1.4MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3701.40	-46.38	-1.60	-47.98	-13.00	34.98	Vertical
5552.10	-51.50	5.43	-46.07	-13.00	33.07	Vertical
7402.80	-50.86	13.11	-37.75	-13.00	24.75	Vertical
3701.40	-46.34	-2.09	-48.43	-13.00	35.43	Horizontal
5552.10	-49.31	3.81	-45.50	-13.00	32.50	Horizontal
7402.80	-51.88	11.38	-40.50	-13.00	27.50	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3765.00	-46.25	-1.28	-47.53	-13.00	34.53	Vertical
5647.50	-51.94	7.14	-44.80	-13.00	31.80	Vertical
7530.00	-50.76	11.69	-39.07	-13.00	26.07	Vertical
3765.00	-46.61	-1.78	-48.39	-13.00	35.39	Horizontal
5647.50	-49.00	4.34	-44.66	-13.00	31.66	Horizontal
7530.00	-52.24	10.24	-42.00	-13.00	29.00	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3828.60	-46.24	-0.97	-47.21	-13.00	34.21	Vertical
5742.90	-52.22	8.17	-44.05	-13.00	31.05	Vertical
7657.20	-50.73	11.06	-39.67	-13.00	26.67	Vertical
3828.60	-47.09	-1.43	-48.52	-13.00	35.52	Horizontal
5742.90	-49.23	6.21	-43.02	-13.00	30.02	Horizontal
7657.20	-52.41	9.91	-42.50	-13.00	29.50	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 25 (20MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3720.00	-46.17	-1.51	-47.68	-13.00	34.68	Vertical
5580.00	-51.95	5.80	-46.15	-13.00	33.15	Vertical
7440.00	-50.72	12.61	-38.11	-13.00	25.11	Vertical
3720.00	-47.31	-2.00	-49.31	-13.00	36.31	Horizontal
5580.00	-49.30	3.95	-45.35	-13.00	32.35	Horizontal
7440.00	-52.37	10.94	-41.43	-13.00	28.43	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3465.00	-46.62	-1.28	-47.90	-13.00	34.90	Vertical
5197.50	-51.81	7.14	-44.67	-13.00	31.67	Vertical
6930.00	-50.58	11.69	-38.89	-13.00	25.89	Vertical
3465.00	-47.63	-1.78	-49.41	-13.00	36.41	Horizontal
5197.50	-49.17	4.34	-44.83	-13.00	31.83	Horizontal
6930.00	-52.86	10.24	-42.62	-13.00	29.62	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3810.00	-47.07	-1.06	-48.13	-13.00	35.13	Vertical
5715.00	-51.81	8.24	-43.57	-13.00	30.57	Vertical
7620.00	-50.64	11.27	-39.37	-13.00	26.37	Vertical
3810.00	-47.77	-1.55	-49.32	-13.00	36.32	Horizontal
5715.00	-49.34	5.20	-44.14	-13.00	31.14	Horizontal
7620.00	-52.41	10.10	-42.31	-13.00	29.31	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 26 part:

Band 26 (1.4MHz)(Part 22)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1649.40	-47.91	-11.1	-59.01	-13.00	46.01	Vertical
2474.10	-47.92	-6.2	-54.12	-13.00	41.12	Vertical
3298.80	-48.61	-4.96	-53.57	-13.00	40.57	Vertical
1649.40	-48.87	-11	-59.87	-13.00	46.87	Horizontal
2474.10	-47.34	-6.54	-53.88	-13.00	40.88	Horizontal
3298.80	-48.52	-5.25	-53.77	-13.00	40.77	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1673.00	-48.08	-11.13	-59.21	-13.00	46.21	Vertical
2509.50	-47.89	-6.2	-54.09	-13.00	41.09	Vertical
3346.00	-48.92	-5.03	-53.95	-13.00	40.95	Vertical
1673.00	-49.19	-11.05	-60.24	-13.00	47.24	Horizontal
2509.50	-46.88	-6.51	-53.39	-13.00	40.39	Horizontal
3346.00	-48.33	-5.23	-53.56	-13.00	40.56	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1696.60	-47.78	-11.15	-58.93	-13.00	45.93	Vertical
2544.90	-48.14	-6.07	-54.21	-13.00	41.21	Vertical
3393.20	-48.94	-5.09	-54.03	-13.00	41.03	Vertical
1696.60	-48.93	-11.09	-60.02	-13.00	47.02	Horizontal
2544.90	-46.98	-6.38	-53.36	-13.00	40.36	Horizontal
3393.20	-48.26	-5.2	-53.46	-13.00	40.46	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 26(15MHz)(Part 22)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1663.00	-48.38	-11.12	-59.50	-13.00	46.50	Vertical
2494.50	-48.30	-6.23	-54.53	-13.00	41.53	Vertical
3326.00	-48.77	-5.00	-53.77	-13.00	40.77	Vertical
1663.00	-48.44	-11.03	-59.47	-13.00	46.47	Horizontal
2494.50	-47.72	-6.54	-54.26	-13.00	41.26	Horizontal
3326.00	-48.72	-5.24	-53.96	-13.00	40.96	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1673.00	-48.88	-11.13	-60.01	-13.00	47.01	Vertical
2509.50	-48.38	-6.20	-54.58	-13.00	41.58	Vertical
3346.00	-48.57	-5.03	-53.60	-13.00	40.60	Vertical
1673.00	-48.34	-11.05	-59.39	-13.00	46.39	Horizontal
2509.50	-47.30	-6.51	-53.81	-13.00	40.81	Horizontal
3346.00	-48.98	-5.23	-54.21	-13.00	41.21	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1683.00	-48.92	-11.14	-60.06	-13.00	47.06	Vertical
2524.50	-48.72	-6.15	-54.87	-13.00	41.87	Vertical
3366.00	-48.74	-5.05	-53.79	-13.00	40.79	Vertical
1683.00	-48.01	-11.06	-59.07	-13.00	46.07	Horizontal
2524.50	-47.72	-6.45	-54.17	-13.00	41.17	Horizontal
3366.00	-49.16	-5.22	-54.38	-13.00	41.38	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 26 part:

Band 26 (1.4MHz)(Part 90)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1629.40	-47.62	-11.09	-58.71	-13.00	45.71	Vertical
2444.10	-47.53	-6.15	-53.68	-13.00	40.68	Vertical
3258.80	-48.77	-4.59	-53.36	-13.00	40.36	Vertical
1629.40	-48.61	-10.97	-59.58	-13.00	46.58	Horizontal
2444.10	-47.77	-6.55	-54.32	-13.00	41.32	Horizontal
3258.80	-48.40	-4.72	-53.12	-13.00	40.12	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1638.00	-47.79	-11.09	-58.88	-13.00	45.88	Vertical
2457.00	-47.89	-6.17	-54.06	-13.00	41.06	Vertical
3276.00	-48.80	-4.75	-53.55	-13.00	40.55	Vertical
1638.00	-48.65	-10.98	-59.63	-13.00	46.63	Horizontal
2457.00	-47.30	-6.54	-53.84	-13.00	40.84	Horizontal
3276.00	-48.66	-4.95	-53.61	-13.00	40.61	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1646.60	-48.05	-11.10	-59.15	-13.00	46.15	Vertical
2469.90	-47.88	-6.19	-54.07	-13.00	41.07	Vertical
3293.20	-48.63	-4.91	-53.54	-13.00	40.54	Vertical
1646.60	-48.70	-11.00	-59.70	-13.00	46.70	Horizontal
2469.90	-47.89	-6.54	-54.43	-13.00	41.43	Horizontal
3293.20	-48.64	-5.18	-53.82	-13.00	40.82	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 26(10MHz)(Part 90)						
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1638.00	-47.13	-11.10	-58.23	-13.00	45.23	Vertical
2457.00	-47.10	-6.17	-53.27	-13.00	40.27	Vertical
3276.00	-48.90	-4.75	-53.65	-13.00	40.65	Vertical
1638.00	-48.32	-10.99	-59.31	-13.00	46.31	Horizontal
2457.00	-47.99	-6.54	-54.53	-13.00	41.53	Horizontal
3276.00	-48.51	-4.95	-53.46	-13.00	40.46	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 41 part:

Band 41 (5MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
4997.00	-49.78	3.56	-46.22	-25.00	21.22	Vertical
7495.50	-51.02	11.88	-39.14	-25.00	14.14	Vertical
9994.00	-52.44	16.91	-35.53	-25.00	10.53	Vertical
4997.00	-49.74	3.11	-46.63	-25.00	21.63	Horizontal
7495.50	-51.44	10.31	-41.13	-25.00	16.13	Horizontal
9994.00	-51.64	16.59	-35.05	-25.00	10.05	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5186.00	-49.62	4.00	-45.62	-25.00	20.62	Vertical
7779.00	-51.10	11.19	-39.91	-25.00	14.91	Vertical
10372.00	-52.82	19.16	-33.66	-25.00	8.66	Vertical
5186.00	-49.94	3.50	-46.44	-25.00	21.44	Horizontal
7779.00	-51.15	10.72	-40.43	-25.00	15.43	Horizontal
10372.00	-52.10	17.88	-34.22	-25.00	9.22	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5375.00	-49.51	4.27	-45.24	-25.00	20.24	Vertical
8062.50	-50.96	12.21	-38.75	-25.00	13.75	Vertical
10750.00	-52.75	20.11	-32.64	-25.00	7.64	Vertical
5375.00	-50.12	3.43	-46.69	-25.00	21.69	Horizontal
8062.50	-51.56	12.00	-39.56	-25.00	14.56	Horizontal
10750.00	-52.37	18.90	-33.47	-25.00	8.47	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

Band 41 (20MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5012.00	-49.60	3.70	-45.90	-25.00	20.90	Vertical
7518.00	-50.82	11.74	-39.08	-25.00	14.08	Vertical
10024.00	-53.02	17.18	-35.84	-25.00	10.84	Vertical
5012.00	-50.00	3.26	-46.74	-25.00	21.74	Horizontal
7518.00	-51.17	10.25	-40.92	-25.00	15.92	Horizontal
10024.00	-52.53	16.69	-35.84	-25.00	10.84	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5186.00	-49.76	4.00	-45.76	-25.00	20.76	Vertical
7779.00	-51.06	11.19	-39.87	-25.00	14.87	Vertical
10372.00	-53.47	19.16	-34.31	-25.00	9.31	Vertical
5186.00	-49.77	3.50	-46.27	-25.00	21.27	Horizontal
7779.00	-51.24	10.72	-40.52	-25.00	15.52	Horizontal
10372.00	-52.47	17.88	-34.59	-25.00	9.59	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
5360.00	-49.45	3.87	-45.58	-25.00	20.58	Vertical
8040.00	-50.94	12.42	-38.52	-25.00	13.52	Vertical
10720.00	-53.63	19.45	-34.18	-25.00	9.18	Vertical
5360.00	-50.05	3.36	-46.69	-25.00	21.69	Horizontal
8040.00	-50.91	11.96	-38.95	-25.00	13.95	Horizontal
10720.00	-52.74	18.93	-33.81	-25.00	8.81	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 66 part:

Band 66 (1.4MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3421.40	-37.52	-7.52	-45.04	-13.00	32.04	Vertical
5132.10	-49.31	-1.45	-50.76	-13.00	37.76	Vertical
6842.80	-47.92	3.48	-44.44	-13.00	31.44	Vertical
3421.40	-29.24	-7.52	-36.76	-13.00	23.76	Horizontal
5132.10	-50.93	-1.45	-52.38	-13.00	39.38	Horizontal
6842.80	-47.17	3.48	-43.69	-13.00	30.69	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3490.00	-37.56	-6.98	-44.54	-13.00	31.54	Vertical
5235.00	-48.96	-0.84	-49.80	-13.00	36.80	Vertical
6980.00	-47.84	3.10	-44.74	-13.00	31.74	Vertical
3490.00	-29.04	-6.98	-36.02	-13.00	23.02	Horizontal
5235.00	-50.72	-0.84	-51.56	-13.00	38.56	Horizontal
6980.00	-47.67	3.10	-44.57	-13.00	31.57	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3558.60	-37.78	-6.75	-44.53	-13.00	31.53	Vertical
5337.90	-48.79	-0.37	-49.16	-13.00	36.16	Vertical
7117.20	-47.53	3.51	-44.02	-13.00	31.02	Vertical
3558.60	-29.27	-6.75	-36.02	-13.00	23.02	Horizontal
5337.90	-50.99	-0.37	-51.36	-13.00	38.36	Horizontal
7117.20	-47.74	3.51	-44.23	-13.00	31.23	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

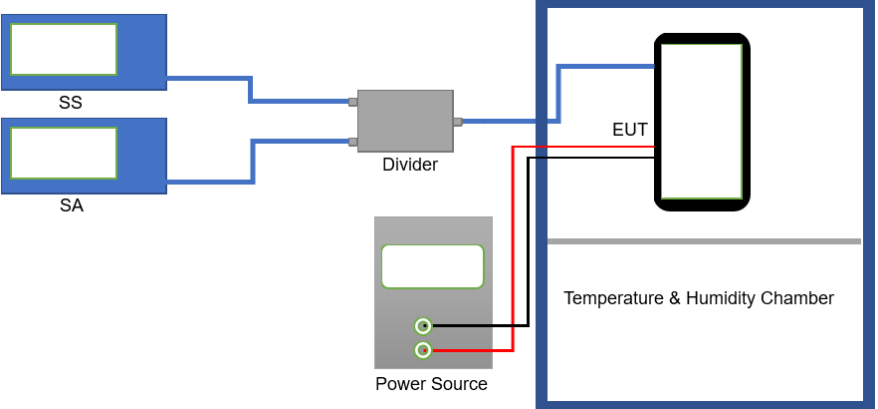
Band 66 (20MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3440.00	-37.47	-7.39	-44.86	-13.00	31.86	Vertical
5160.00	-49.14	-1.22	-50.36	-13.00	37.36	Vertical
6880.00	-47.43	3.66	-43.77	-13.00	30.77	Vertical
3440.00	-29.41	-7.39	-36.80	-13.00	23.80	Horizontal
5160.00	-51.03	-1.22	-52.25	-13.00	39.25	Horizontal
6880.00	-47.99	3.66	-44.33	-13.00	31.33	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3490.00	-36.98	-6.98	-43.96	-13.00	30.96	Vertical
5235.00	-49.10	-0.84	-49.94	-13.00	36.94	Vertical
6980.00	-47.42	3.10	-44.32	-13.00	31.32	Vertical
3490.00	-29.43	-6.98	-36.41	-13.00	23.41	Horizontal
5235.00	-50.65	-0.84	-51.49	-13.00	38.49	Horizontal
6980.00	-48.24	3.10	-45.14	-13.00	32.14	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
3540.00	-36.73	-6.81	-43.54	-13.00	30.54	Vertical
5310.00	-49.44	-0.55	-49.99	-13.00	36.99	Vertical
7080.00	-47.12	3.37	-43.75	-13.00	30.75	Vertical
3540.00	-29.51	-6.81	-36.32	-13.00	23.32	Horizontal
5310.00	-50.81	-0.55	-51.36	-13.00	38.36	Horizontal
7080.00	-47.80	3.37	-44.43	-13.00	31.43	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

LTE Band 71 part:

Band 71 (5MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1331.00	-47.68	-8.79	-56.47	-13.00	43.47	Vertical
1996.50	-47.38	-7.88	-55.26	-13.00	42.26	Vertical
2662.00	-49.32	-5.62	-54.94	-13.00	41.94	Vertical
1331.00	-49.77	-8.79	-58.56	-13.00	45.56	Horizontal
1996.50	-48.23	-7.88	-56.11	-13.00	43.11	Horizontal
2662.00	-49.48	-5.62	-55.10	-13.00	42.10	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1361.00	-47.92	-7.94	-55.86	-13.00	42.86	Vertical
2041.50	-47.78	-6.91	-54.69	-13.00	41.69	Vertical
2722.00	-49.01	-4.77	-53.78	-13.00	40.78	Vertical
1361.00	-49.53	-7.94	-57.47	-13.00	44.47	Horizontal
2041.50	-48.24	-6.91	-55.15	-13.00	42.15	Horizontal
2722.00	-49.14	-4.77	-53.91	-13.00	40.91	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1391.00	-48.04	-6.80	-54.84	-13.00	41.84	Vertical
2086.50	-47.91	-5.38	-53.29	-13.00	40.29	Vertical
2782.00	-48.81	-4.83	-53.64	-13.00	40.64	Vertical
1391.00	-49.39	-6.80	-56.19	-13.00	43.19	Horizontal
2086.50	-48.42	-5.38	-53.80	-13.00	40.80	Horizontal
2782.00	-49.06	-4.83	-53.89	-13.00	40.89	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

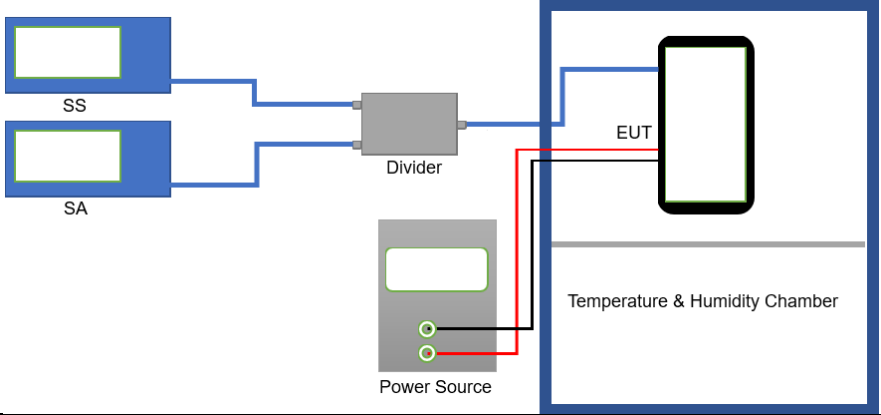
Band 71 (20MHz)						
Lowest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1346.00	-48.71	-8.53	-57.24	-13.00	44.24	Vertical
2019.00	-48.57	-7.56	-56.13	-13.00	43.13	Vertical
2692.00	-47.80	-5.02	-52.82	-13.00	39.82	Vertical
1346.00	-48.94	-8.53	-57.47	-13.00	44.47	Horizontal
2019.00	-49.08	-7.56	-56.64	-13.00	43.64	Horizontal
2692.00	-48.35	-5.02	-53.37	-13.00	40.37	Horizontal
Middle channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1366.00	-48.71	-7.62	-56.33	-13.00	43.33	Vertical
2049.00	-48.13	-6.57	-54.70	-13.00	41.70	Vertical
2732.00	-48.28	-4.22	-52.50	-13.00	39.50	Vertical
1366.00	-49.05	-7.62	-56.67	-13.00	43.67	Horizontal
2049.00	-48.75	-6.57	-55.32	-13.00	42.32	Horizontal
2732.00	-48.74	-4.22	-52.96	-13.00	39.96	Horizontal
Highest channel						
Frequency (MHz)	Spurious Emission level (dBm)	Factor (dB)	Level at antenna terminals (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
1376.00	-48.51	-6.51	-55.02	-13.00	42.02	Vertical
2064.00	-47.63	-5.15	-52.78	-13.00	39.78	Vertical
2752.00	-48.51	-4.37	-52.88	-13.00	39.88	Vertical
1376.00	-49.39	-6.51	-55.90	-13.00	42.90	Horizontal
2064.00	-48.92	-5.15	-54.07	-13.00	41.07	Horizontal
2752.00	-49.01	-4.37	-53.38	-13.00	40.38	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.						

6.6 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Limit:	±2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 7 & 12 & 13 & 17
Test setup:	
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Appendix F – LTE

6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Limit:	±2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 7 & 12 & 13 & 17
Test setup:	
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data: Refer to Appendix F – LTE