

FCC REPORT

(LTE)

Applicant: Unimax communications

Address of Applicant: 18201 McDermott St. West Suite E, Irvine, CA 92614.

Equipment Under Test (EUT)

Product Name: Smartphone

Model No.: U683CL

Trade mark: UMX

FCC ID: P46-U683CL

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 L & M & F
FCC CFR Title 47 Part 90 Subpart S

Date of sample receipt: 09 Dec., 2021

Date of Test: 10 Dec., 2021 to 15 Jan., 2022

Date of report issued: 16 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	16 Jan., 2022	Original

Tested by: Mike.ou **Date:** 16 Jan., 2022
Test Engineer

Reviewed by: Winner Zhang **Date:** 16 Jan., 2022
Project Engineer

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4. Test Summary

Test Items	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4) Part 27.50 (h)(2) Part 90.635 (h)(b)	Pass ²
Peak-to-Average Ratio	Part 24.232 (d) Part 27.50(d)(5)	Pass ¹
Modulation Characteristics	Part 2.1047	Pass ¹
99% & -26 dB Occupied Bandwidth	Part 2.1049	Pass ¹
Out of band emission at antenna terminals	Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m) Part 90.691(a)	Pass ¹
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) Part 90.691(a)	Pass ²
Frequency stability vs. temperature	Part 22.355 Part 24.235 Part 27.54 Part 90.213(a) Part 2.1055(a)(1)(b)	Pass ¹
Frequency stability vs. voltage	Part 22.355 Part 24.235 Part 27.54 Part 90.213(a) Part 2.1055(d)(2)	Pass ¹
Remark: 1. Pass ¹ : Items data are refer from the original report issued by SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch. (Date of Test: 2019/1/10-2019/1/24). The detailed data refer to Appendix B.2 -LTE BAND 2 & Appendix B.3 -LTE BAND 4 & Appendix B.4 -LTE BAND 5 & Appendix B.5 -LTE BAND 13 & Appendix B.6 -LTE BAND 25 & Appendix B.7 of LTE BAND 26(814MHz-824MHz) & Appendix B.8 of LTE BAND 26(824MHz-849MHz) & Appendix B.9 of LTE BAND 41. 2. Pass ² : These items are tested by JianYan Testing Group Shenzhen Co., Ltd. 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).		
Test Method:	ANSI/TIA-603-E-2016 ANSI C63.26-2015	

5. General Information

5.1 Client Information

Applicant:	Unimax communications
Address:	18201 McDermott St. West Suite E, Irvine, CA 92614.
Manufacturer/ Factory:	Unimax communications
Address:	18201 McDermott St. West Suite E, Irvine, CA 92614.

5.2 General Description of E.U.T.

Product Name:	Smartphone		
Model No.:	U683CL		
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 13:	TX: 777MHz-787MHz	RX: 746MHz-756MHz
	LTE Band 25:	TX: 1850 MHz-1915 MHz	RX: 1930 MHz-1995 MHz
	LTE Band 26:	TX: 814MHz-849MHz	RX: 859MHz-894MHz
	LTE Band 41:	TX: 2500MHz-2690MHz	RX: 2500MHz-2690MHz
Modulation type:	☒ QPSK	☒ 16QAM	
Antenna type:	Integrated Antenna		
Antenna gain:	LTE Band 2:	0.3 dBi(declare by Applicant)	
	LTE Band 4:	0.32 dBi(declare by Applicant)	
	LTE Band 5:	-0.5 dBi(declare by Applicant)	
	LTE Band 13:	-1.1 dBi(declare by Applicant)	
	LTE Band 25:	0.3 dBi(declare by Applicant)	
	LTE Band 26:	-0.5 dBi(declare by Applicant)	
	LTE Band 41:	1.18 dBi(declare by Applicant)	
Power supply:	Rechargeable Li-ion Battery DC3.85V, 2000mAh		
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 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)
39715	2502.50	39740	2505.00
39716	2502.60	39741	2545.10
....			
40639	2594.90	40639	2594.90
40640	2595.00	40640	2595.00
40641	2595.10	40641	2595.10
...	...	...	...
41564	2687.40	41539	2684.90
41565	2687.50	41540	2685.00
LTE Band 41 (15MHz)		LTE Band 41 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
39765	2507.50	39790	2510.00
39766	2507.60	39791	2510.10
....			
40639	2594.90	40639	2594.90
40640	2595.00	40640	2595.00
40641	2595.10	40641	2595.10
...	...	...	...
41164	2682.40	41489	2679.90
41515	2682.50	41490	26480.00

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 2 (1.4MHz)			LTE Band 2 (3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18607	1850.70	Lowest channel	18615	1851.50
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19193	1909.30	Highest channel	19185	1908.50
LTE Band 2 (5MHz)			LTE Band 2 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18625	1852.50	Lowest channel	18650	1855.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19175	1907.50	Highest channel	19150	1905.00
LTE Band 2 (15MHz)			LTE Band 2 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18675	1857.50	Lowest channel	18700	1860.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19125	1902.50	Highest channel	19100	1900.00

LTE Band 4 (1.4MHz)			LTE Band 4 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19957	1710.70	Lowest channel	19965	1711.50
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20393	1754.30	Highest channel	20385	1753.50
LTE Band 4 (5MHz)			LTE Band 4 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19975	1712.50	Lowest channel	20000	1715.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20375	1752.50	Highest channel	20350	1750.00
LTE Band 4 (15MHz)			LTE Band 4 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20025	1717.50	Lowest channel	20050	1720.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20325	1747.50	Highest channel	20300	1745.00

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 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 :

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:

LTE Band 5&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 5&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 5&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 5&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:

LTE Band 41 (5MHz)			LTE Band 41 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	39715	2502.50	Lowest channel	39740	2505.00
Middle channel	40460	2595.00	Middle channel	40640	2595.00
Highest channel	41565	2687.50	Highest channel	41540	2685.00
LTE Band 41 (15MHz)			LTE Band 41 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	39765	2507.50	Lowest channel	39790	2510.00
Middle channel	40640	2595.00	Middle channel	40640	2595.00
Highest channel	41515	2682.50	Highest channel	41490	2680.00

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.85Vdc
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://www.ccis-cb.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
Band Reject Filter Group	Tonscend	JS0806	21B8060367	04-06-2021	04-05-2022
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)
Simulated Station	Rohde & Schwarz	CMW500	MY57431500	07-02-2021	07-01-2022
DC Power Supply	Keysight	E3642A	MY60296194	10-25-2021	10-24-2022
Temperature Humidity Chamber	HONG ZHI	CZ-A-80D	ZH210166	03-19-2021	03-18-2022
RF Control Unit	Tonscend	JS0806-1	21F8060438	N/A	
Test Software	Tonscend	TS+	Version: 2.6.9.0526		

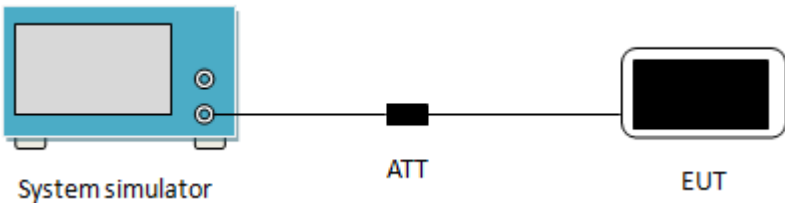
6. Test results

6.1 Conducted Output Power

6.1.1 Re-test statement

Re-test statement: The EUT is operating at the same power level with the original testing of SGS-CSTC Standards Technical Services, Co Ltd. Shenzhen Branch.

6.1.2 Test results

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), Part 90.635 (h)(b)
Limit:	LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 13: 3W, LTE Band 25: 2W, LTE Band 26(Part 22): 7W, LTE Band 26(Part 90): 100W;LTE Band 41: 2W,
Test Setup:	 System simulator ATT EUT
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:

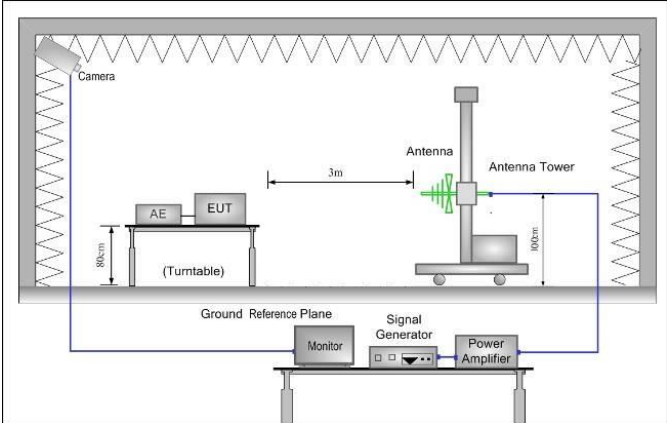
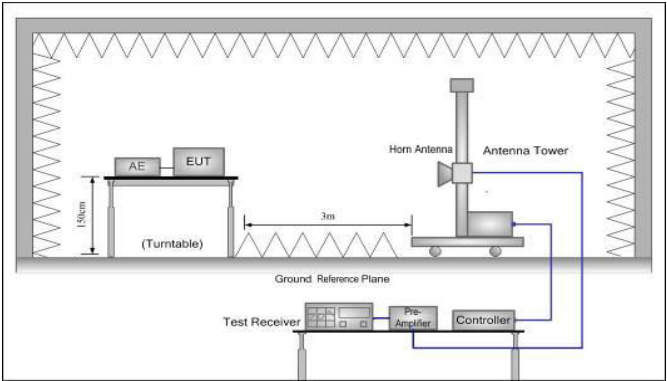
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band2	20MHz	QPSK	18700	1RB#0	22.82	22.39
Band2	20MHz	QPSK	18900	1RB#0	22.74	22.70
Band2	20MHz	QPSK	19100	1RB#0	22.81	22.77
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band4	20MHz	QPSK	20050	1RB#0	24.39	24.19
Band4	20MHz	QPSK	20175	1RB#0	24.02	24.36
Band4	20MHz	QPSK	20300	1RB#0	24.11	23.78
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band5	10MHz	QPSK	20450	1RB#0	24.04	24.00
Band5	10MHz	QPSK	20525	1RB#0	23.64	24.28
Band5	10MHz	QPSK	20600	1RB#0	23.88	24.01
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band13	10MHz	QPSK	23230	1RB#0	23.84	24.27

BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band25	20MHz	QPSK	26140	1RB#0	22.34	21.92
Band25	20MHz	QPSK	26365	1RB#0	22.28	22.17
Band25	20MHz	QPSK	26590	1RB#0	22.07	22.26
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band26 (814-824)	10MHz	QPSK	26740	1RB#0	24.07	24.44
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band26 (824-849)	15MHz	QPSK	26865	1RB#0	24.25	24.62
Band26 (824-849)	15MHz	QPSK	26915	1RB#0	24.08	24.24
Band26 (824-849)	15MHz	QPSK	26965	1RB#0	24.18	24.68
BAND	Bandwidth	Modulation	Channel	RB Configuration	Test Original Reports Level(dBm)	Re-Test Reports Level(dBm)
Band41	20MHz	QPSK	39750	1RB#0	24.92	24.64
Band41	20MHz	QPSK	40620	1RB#0	24.69	24.39
Band41	20MHz	QPSK	41490	1RB#0	24.90	25.22

Remark:

	The Original Reports	Re-Test Reports
File name:	test report LTE	Test Report LTE rev1
Test location:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	JianYan Testing Group Shenzhen Co., Ltd.
The output power is re-test at JianYan Testing Group Shenzhen Co., Ltd.		

6.2 Field strength of spurious radiation measurement

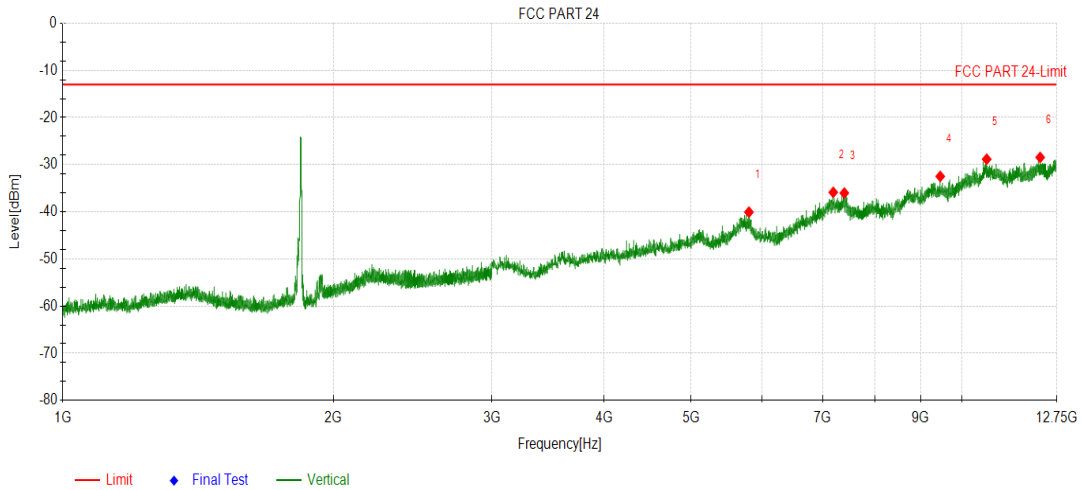
Test Requirement:	Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m), Part 90.691(a)
Limit:	LTE Band 2 & 4 & 5 & 13 & 25 & 26(Part 22): The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ 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. LTE Band 26(Part 90): For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.
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.
Environment:	Temp: 23.4℃, Humi: 56%
Test results:	Passed

Measurement Data:

Remark: During the test, use Band Reject Filter Group to filter out LTE Band 2 & 5 & 13 & 25 & 26 fundamental signal

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 2 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

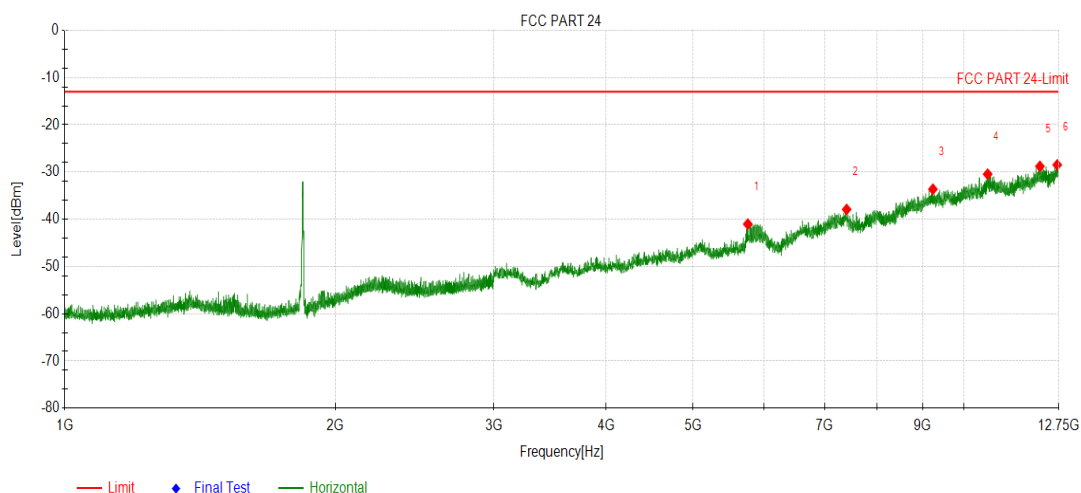


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5797.031	-48.06	-40.05	-13.00	27.05	8.01	55	156	Vertical
2	7194.937	-48.93	-35.86	-13.00	22.86	13.07	310	166	Vertical
3	7402.125	-49.13	-36.01	-13.00	23.01	13.12	68	137	Vertical
4	9464.250	-48.54	-32.48	-13.00	19.48	16.06	286	154	Vertical
5	10659.84	-49.03	-28.83	-13.00	15.83	20.20	45	145	Vertical
6	12224.71	-49.62	-28.45	-13.00	15.45	21.17	326	164	Vertical

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 2 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

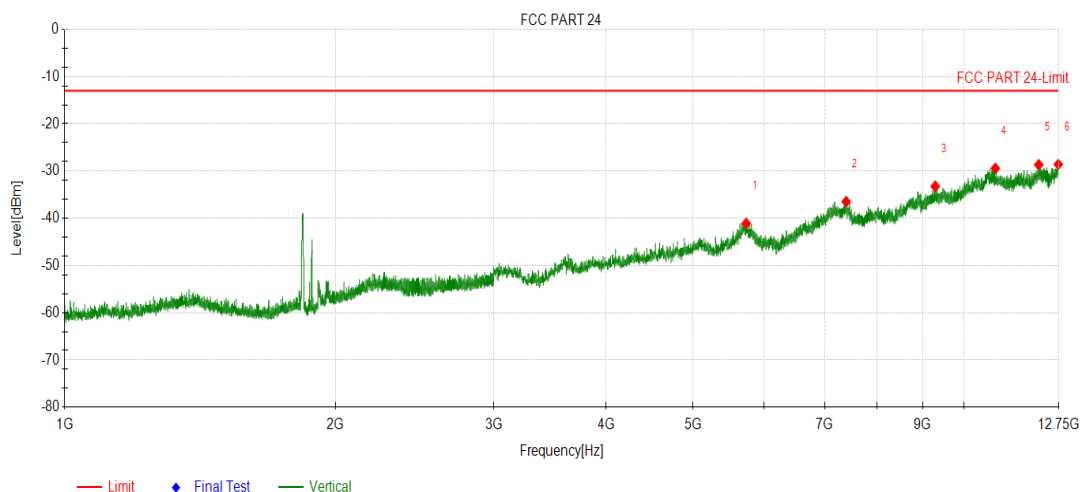


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5750.718	-47.49	-41.02	-13.00	28.02	6.47	101	145	Horizontal
2	7408.218	-49.23	-37.91	-13.00	24.91	11.32	257	139	Horizontal
3	9240.000	-49.24	-33.63	-13.00	20.63	15.61	104	157	Horizontal
4	10630.59	-49.20	-30.45	-13.00	17.45	18.75	264	149	Horizontal
5	12154.03	-49.88	-28.80	-13.00	15.80	21.08	81	133	Horizontal
6	12707.34	-50.47	-28.48	-13.00	15.48	21.99	284	141	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 2 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

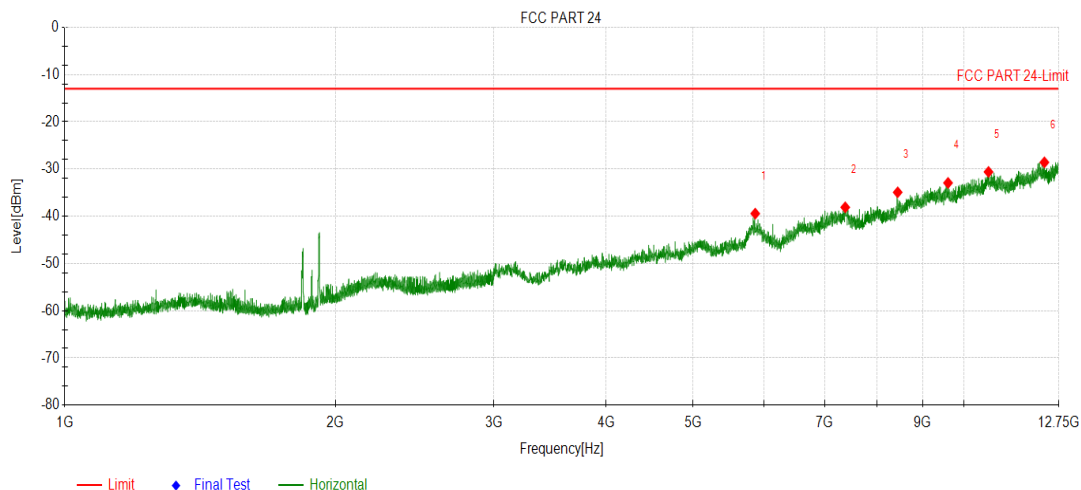


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5727.562	-49.29	-41.09	-13.00	28.09	8.20	10	156	Vertical
2	7399.687	-49.61	-36.46	-13.00	23.46	13.15	342	155	Vertical
3	9296.062	-49.34	-33.23	-13.00	20.23	16.11	99	134	Vertical
4	10842.65	-49.53	-29.43	-13.00	16.43	20.10	261	155	Vertical
5	12118.68	-49.51	-28.67	-13.00	15.67	20.84	83	148	Vertical
6	12741.46	-50.71	-28.59	-13.00	15.59	22.12	287	139	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 2 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

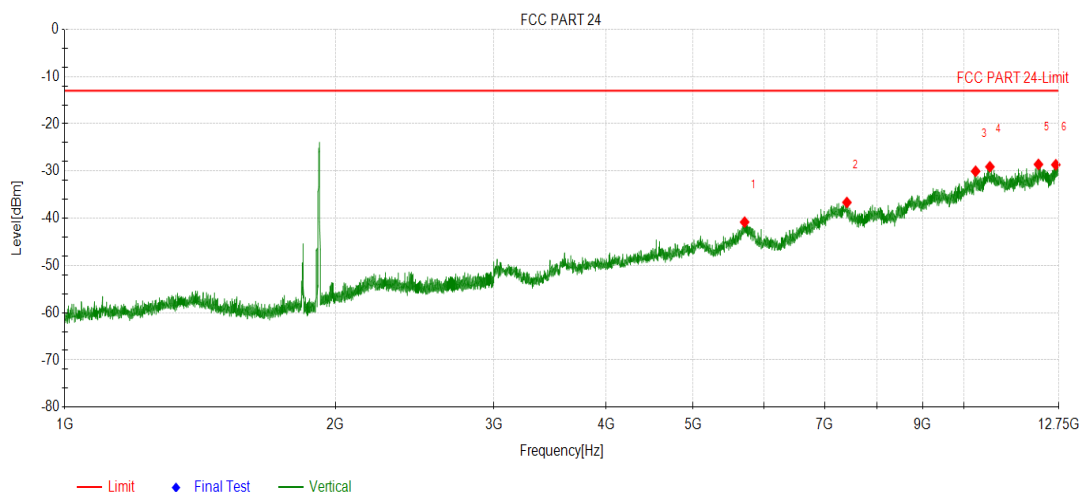


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5861.625	-47.86	-39.43	-13.00	26.43	8.43	158	136	Horizontal
2	7381.406	-49.44	-38.10	-13.00	25.10	11.34	213	156	Horizontal
3	8442.937	-47.44	-34.93	-13.00	21.93	12.51	33	145	Horizontal
4	9605.625	-49.46	-32.94	-13.00	19.94	16.52	334	133	Horizontal
5	10654.96	-49.43	-30.61	-13.00	17.61	18.82	115	167	Horizontal
6	12295.40	-49.51	-28.58	-13.00	15.58	20.93	246	149	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 2 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

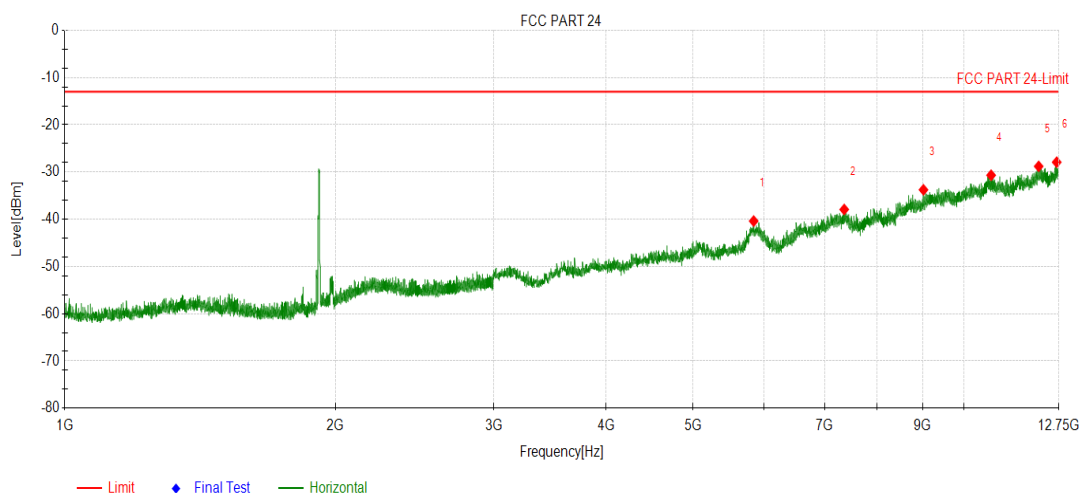


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5704.406	-49.08	-40.81	-13.00	27.81	8.27	82	144	Vertical
2	7413.093	-49.63	-36.65	-13.00	23.65	12.98	276	138	Vertical
3	10308.84	-49.36	-30.05	-13.00	17.05	19.31	61	167	Vertical
4	10692.75	-49.24	-29.10	-13.00	16.10	20.14	307	149	Vertical
5	12108.93	-49.38	-28.59	-13.00	15.59	20.79	54	152	Vertical
6	12661.03	-50.30	-28.67	-13.00	15.67	21.63	203	162	Vertical

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 2 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

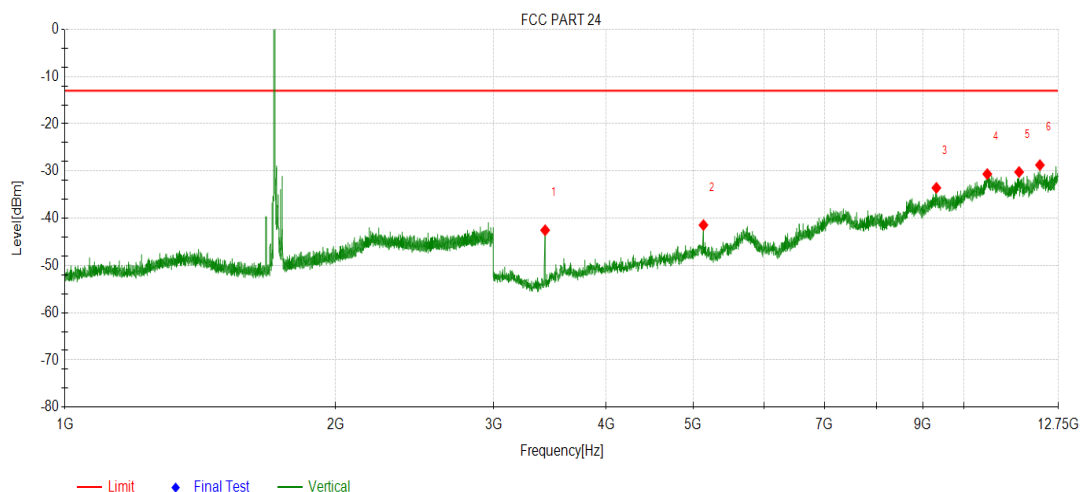


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5838.468	-48.75	-40.38	-13.00	27.38	8.37	102	132	Horizontal
2	7361.906	-49.19	-37.93	-13.00	24.93	11.26	251	155	Horizontal
3	9019.406	-48.44	-33.76	-13.00	20.76	14.68	133	164	Horizontal
4	10725.65	-49.61	-30.68	-13.00	17.68	18.93	226	159	Horizontal
5	12116.25	-49.74	-28.80	-13.00	15.80	20.94	146	144	Horizontal
6	12689.06	-49.78	-27.91	-13.00	14.91	21.87	211	137	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 4 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

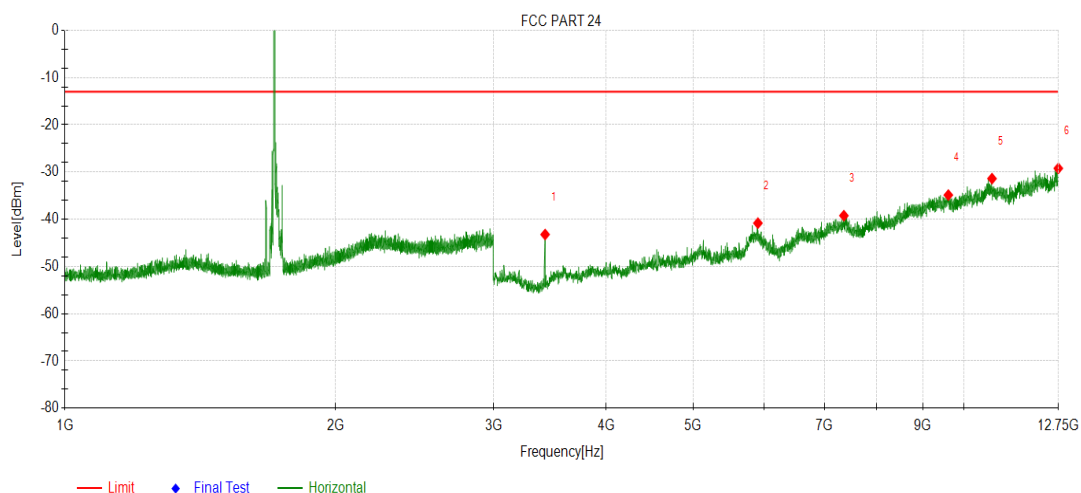


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	3421.687	-38.26	-42.53	-13.00	29.53	-4.27	310	135	Vertical
2	5132.812	-45.85	-41.44	-13.00	28.44	4.41	51	154	Vertical
3	9322.875	-49.65	-33.57	-13.00	20.57	16.08	221	144	Vertical
4	10622.06	-50.92	-30.64	-13.00	17.64	20.28	134	167	Vertical
5	11522.71	-50.75	-30.20	-13.00	17.20	20.55	302	131	Vertical
6	12155.25	-49.77	-28.73	-13.00	15.73	21.04	54	148	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 4 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

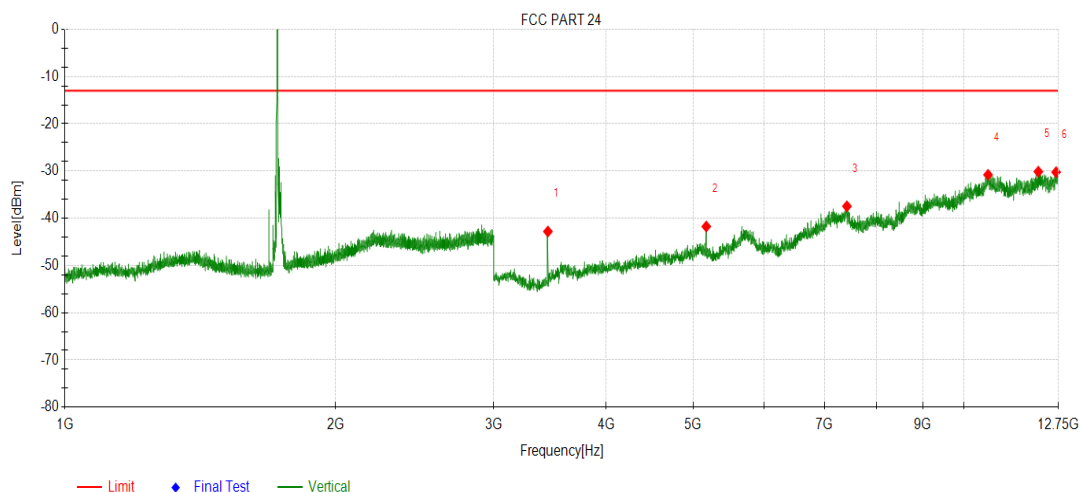


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	3421.687	-38.85	-43.22	-13.00	30.22	-4.37	77	135	Horizontal
2	5901.843	-49.34	-40.82	-13.00	27.82	8.52	283	156	Horizontal
3	7355.812	-50.46	-39.23	-13.00	26.23	11.23	121	145	Horizontal
4	9612.937	-51.31	-34.87	-13.00	21.87	16.44	244	157	Horizontal
5	10751.25	-50.29	-31.39	-13.00	18.39	18.90	166	134	Horizontal
6	12741.46	-51.42	-29.22	-13.00	16.22	22.20	191	149	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 4 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

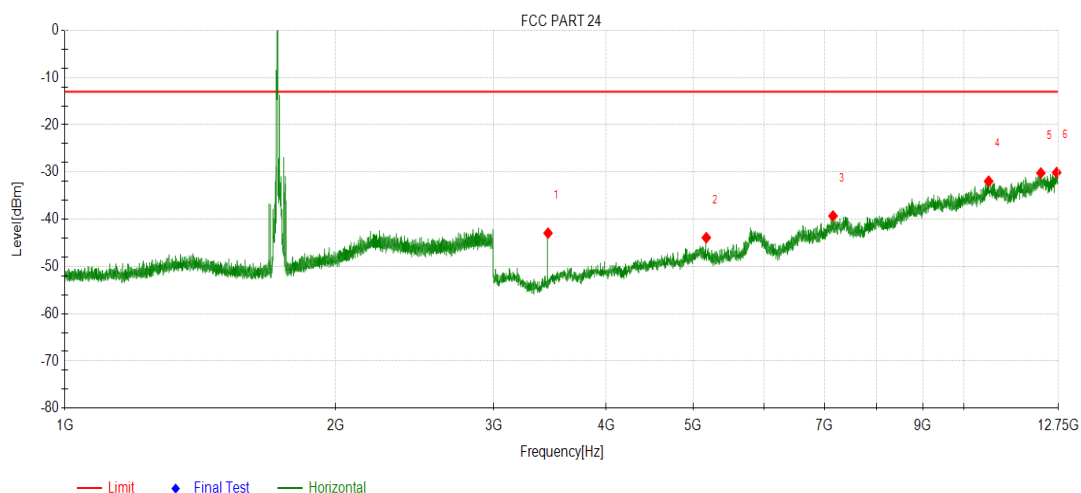


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	3446.062	-39.15	-42.80	-13.00	29.80	-3.65	31	135	Vertical
2	5170.593	-45.86	-41.74	-13.00	28.74	4.12	328	151	Vertical
3	7413.093	-50.44	-37.46	-13.00	24.46	12.98	177	162	Vertical
4	10641.56	-51.03	-30.79	-13.00	17.79	20.24	182	159	Vertical
5	12105.28	-50.90	-30.13	-13.00	17.13	20.77	301	137	Vertical
6	12668.34	-51.90	-30.23	-13.00	17.23	21.67	56	147	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 4 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

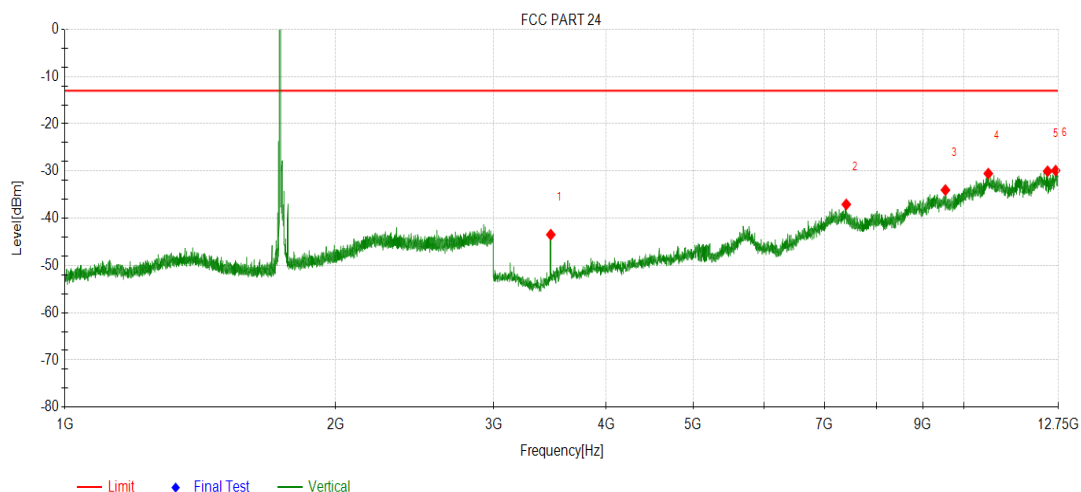


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	3447.281	-39.21	-42.93	-13.00	29.93	-3.72	201	132	Horizontal
2	5170.593	-47.53	-43.90	-13.00	30.90	3.63	151	156	Horizontal
3	7153.500	-50.29	-39.30	-13.00	26.30	10.99	333	145	Horizontal
4	10658.62	-50.78	-31.95	-13.00	18.95	18.83	24	158	Horizontal
5	12184.50	-51.39	-30.20	-13.00	17.20	21.19	92	166	Horizontal
6	12686.62	-51.96	-30.10	-13.00	17.10	21.86	271	147	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 4 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

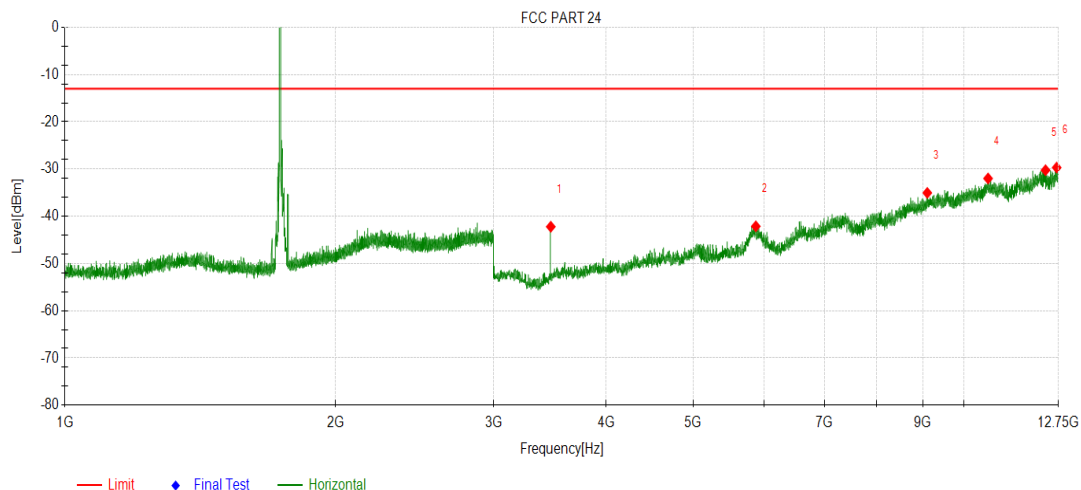


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	3471.656	-40.48	-43.47	-13.00	30.47	-2.99	52	156	Vertical
2	7400.906	-50.21	-37.07	-13.00	24.07	13.14	307	166	Vertical
3	9541.031	-49.92	-34.02	-13.00	21.02	15.90	80	145	Vertical
4	10648.87	-50.76	-30.53	-13.00	17.53	20.23	276	159	Vertical
5	12395.34	-50.80	-30.05	-13.00	17.05	20.75	43	131	Vertical
6	12653.71	-51.49	-29.90	-13.00	16.90	21.59	216	149	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 4 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

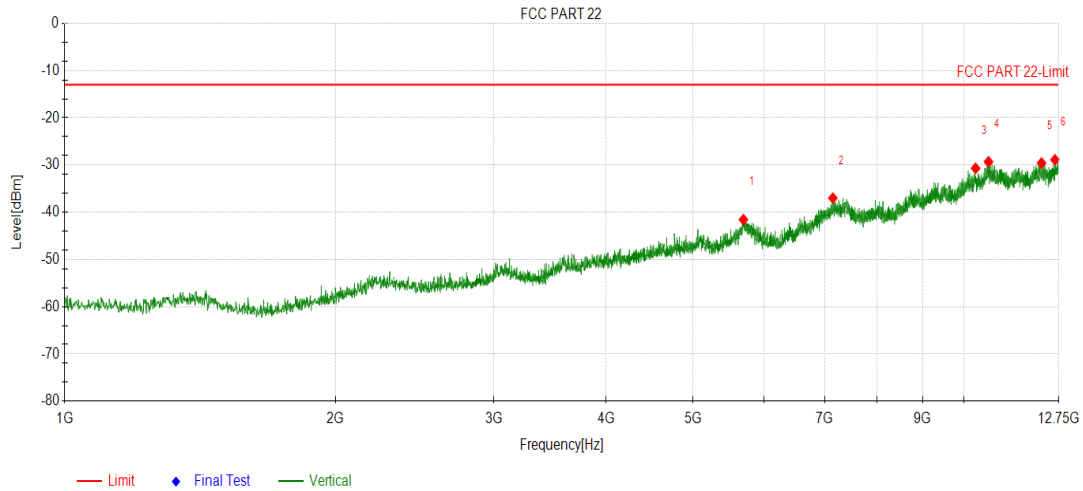


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	3471.656	-39.11	-42.21	-13.00	29.21	-3.10	22	156	Horizontal
2	5870.156	-50.59	-42.13	-13.00	29.13	8.46	332	132	Horizontal
3	9108.375	-50.37	-35.05	-13.00	22.05	15.32	150	141	Horizontal
4	10642.78	-50.77	-31.99	-13.00	18.99	18.78	206	159	Horizontal
5	12330.75	-51.13	-30.24	-13.00	17.24	20.89	171	161	Horizontal
6	12687.84	-51.56	-29.69	-13.00	16.69	21.87	193	144	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 5 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

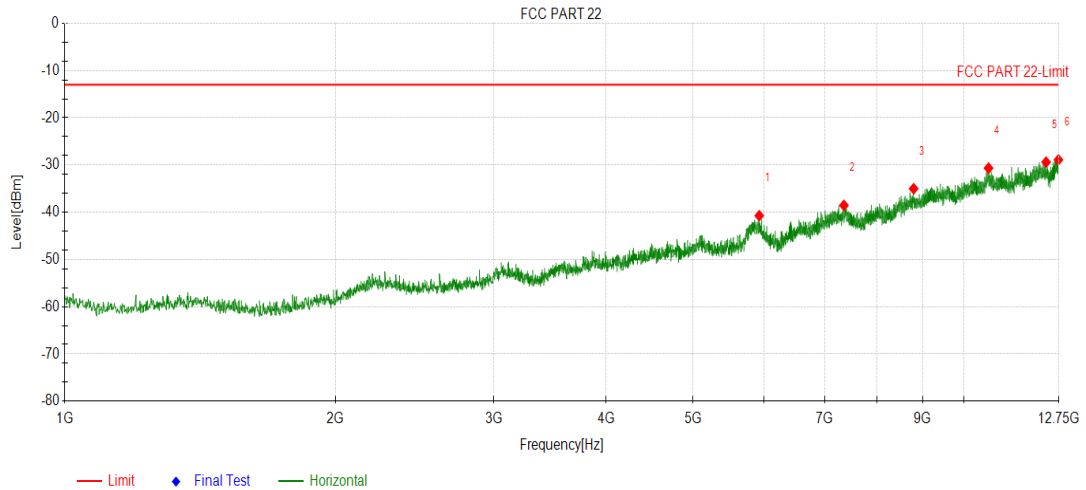


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5686.781	-49.91	-41.56	-13.00	28.56	8.35	125	132	Vertical
2	7151.125	-49.77	-36.99	-13.00	23.99	12.78	232	161	Vertical
3	10307.46	-50.21	-30.68	-13.00	17.68	19.53	103	157	Vertical
4	10654.09	-49.95	-29.31	-13.00	16.31	20.64	252	149	Vertical
5	12205.09	-50.96	-29.56	-13.00	16.56	21.40	112	152	Vertical
6	12632.50	-50.73	-28.88	-13.00	15.88	21.85	247	163	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 5 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

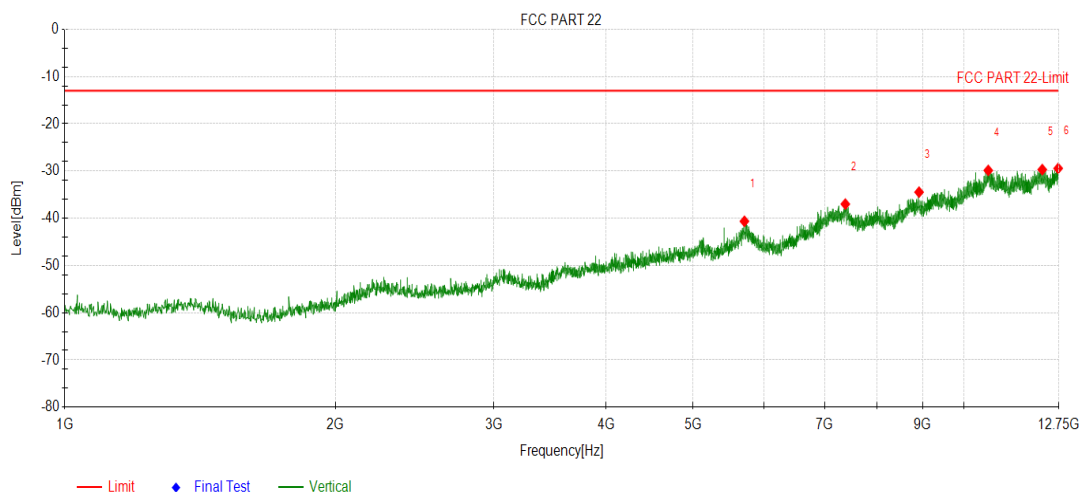


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5921.781	-49.30	-40.72	-13.00	27.72	8.58	85	156	Horizontal
2	7356.750	-49.86	-38.53	-13.00	25.53	11.33	271	144	Horizontal
3	8794.656	-49.13	-35.01	-13.00	22.01	14.12	105	134	Horizontal
4	10655.56	-49.90	-30.65	-13.00	17.65	19.25	253	159	Horizontal
5	12349.03	-50.44	-29.38	-13.00	16.38	21.06	319	148	Horizontal
6	12744.12	-51.27	-28.90	-13.00	15.90	22.37	43	162	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 5 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

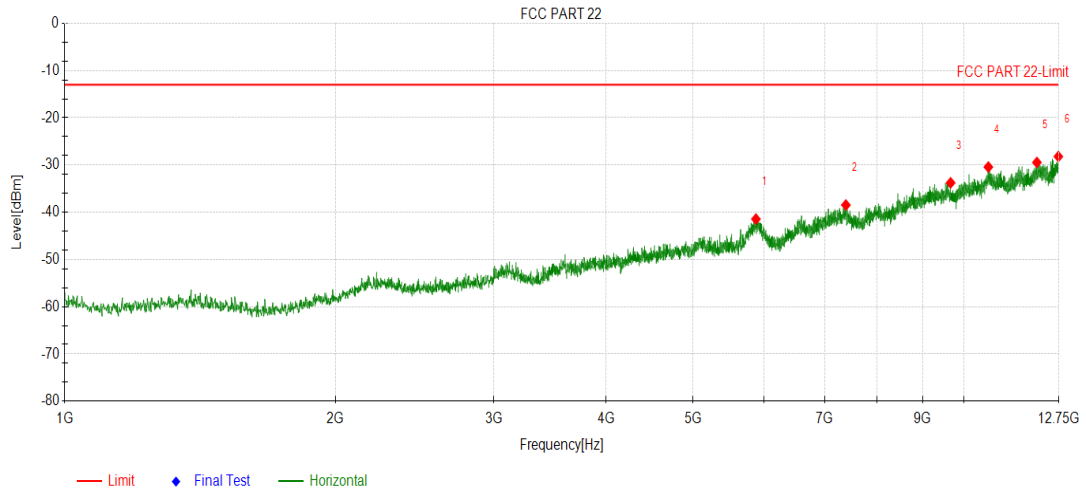


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5701.468	-49.34	-40.64	-13.00	27.64	8.70	214	166	Vertical
2	7383.187	-50.16	-37.00	-13.00	24.00	13.16	143	159	Vertical
3	8918.031	-49.08	-34.47	-13.00	21.47	14.61	201	147	Vertical
4	10648.21	-50.51	-29.87	-13.00	16.87	20.64	159	158	Vertical
5	12228.59	-51.03	-29.70	-13.00	16.70	21.33	302	135	Vertical
6	12736.78	-51.69	-29.44	-13.00	16.44	22.25	56	149	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 5 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

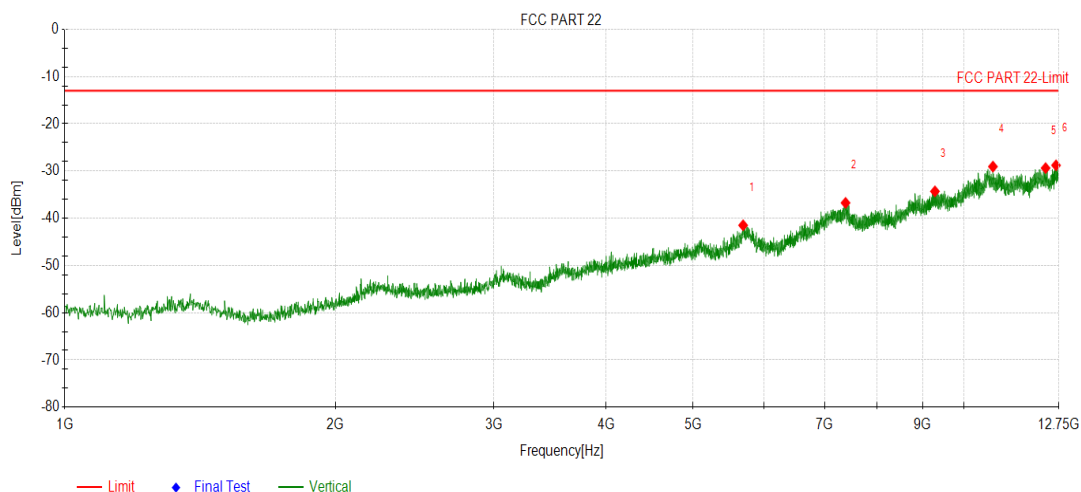


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5871.843	-50.26	-41.44	-13.00	28.44	8.82	28	155	Horizontal
2	7393.468	-50.01	-38.47	-13.00	25.47	11.54	331	145	Horizontal
3	9668.562	-49.64	-33.77	-13.00	20.77	15.87	44	132	Horizontal
4	10651.15	-49.65	-30.42	-13.00	17.42	19.23	311	159	Horizontal
5	12061.15	-50.37	-29.45	-13.00	16.45	20.92	62	162	Horizontal
6	12742.65	-50.56	-28.20	-13.00	15.20	22.36	298	148	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 5 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

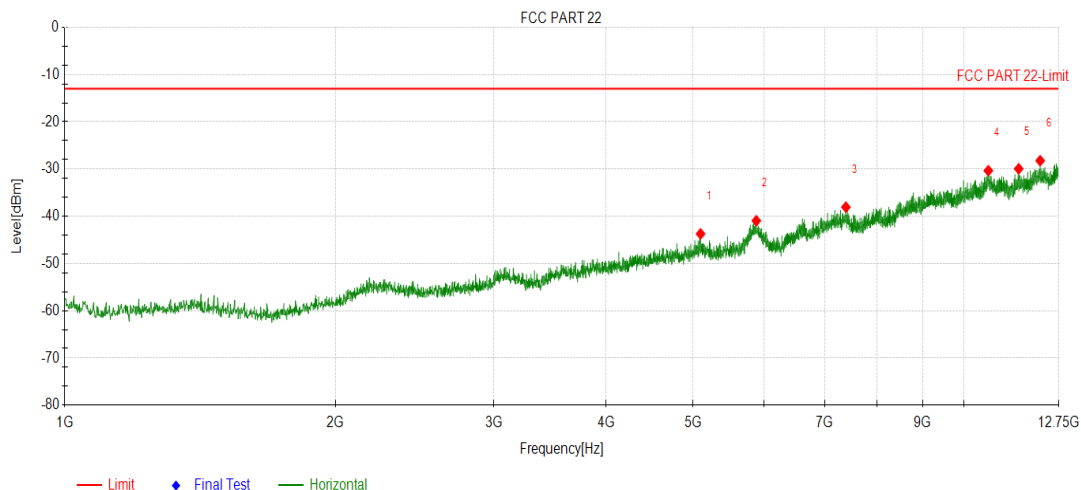


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5682.375	-49.72	-41.49	-13.00	28.49	8.23	61	155	Vertical
2	7387.593	-49.94	-36.74	-13.00	23.74	13.20	295	161	Vertical
3	9288.156	-50.31	-34.30	-13.00	21.30	16.01	314	154	Vertical
4	10776.00	-49.20	-29.06	-13.00	16.06	20.14	46	137	Vertical
5	12332.87	-50.38	-29.37	-13.00	16.37	21.01	93	149	Vertical
6	12667.75	-50.76	-28.79	-13.00	15.79	21.97	264	145	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 5 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

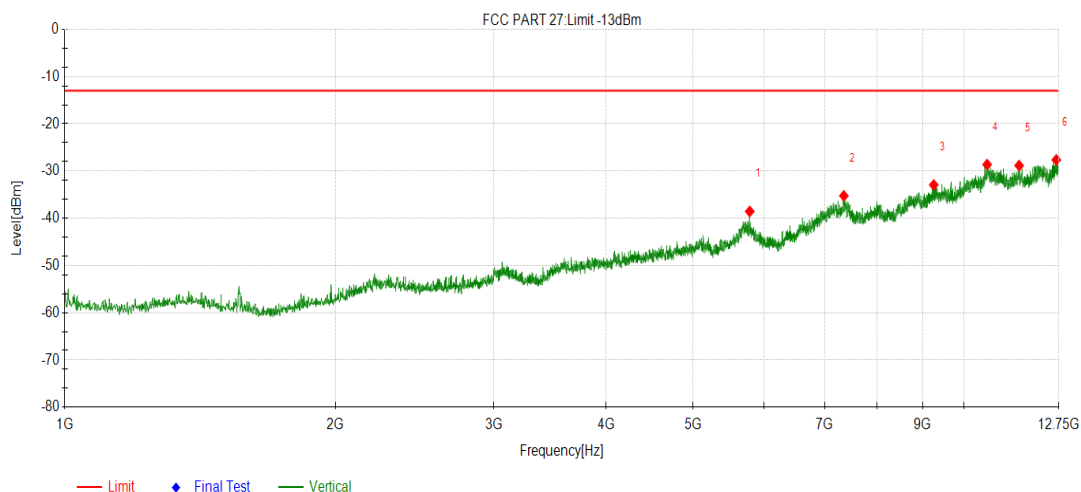


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5094.875	-47.92	-43.72	-13.00	30.72	4.20	280	134	Horizontal
2	5877.718	-49.81	-40.95	-13.00	27.95	8.86	78	156	Horizontal
3	7393.468	-49.60	-38.06	-13.00	25.06	11.54	222	157	Horizontal
4	10649.68	-49.56	-30.34	-13.00	17.34	19.22	131	169	Horizontal
5	11510.37	-50.40	-29.95	-13.00	16.95	20.45	41	143	Horizontal
6	12162.50	-49.48	-28.23	-13.00	15.23	21.25	319	137	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 13 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

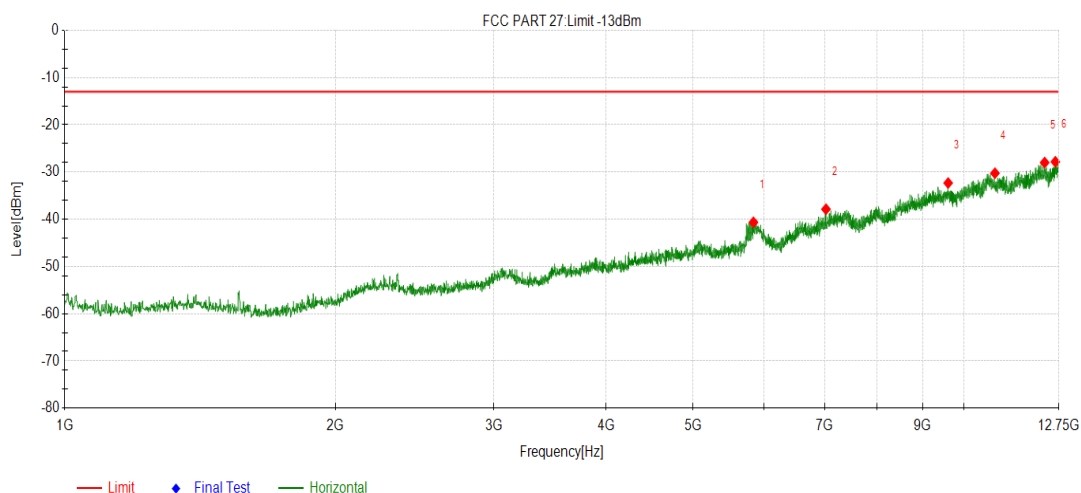


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5779.312	-46.70	-38.55	-13.00	25.55	8.15	91	156	Vertical
2	7355.281	-48.16	-35.24	-13.00	22.24	12.92	273	134	Vertical
3	9260.250	-48.76	-32.94	-13.00	19.94	15.82	39	157	Vertical
4	10615.90	-49.27	-28.63	-13.00	15.63	20.64	327	149	Vertical
5	11523.59	-49.71	-28.84	-13.00	15.84	20.87	59	133	Vertical
6	12676.56	-49.65	-27.64	-13.00	14.64	22.01	308	166	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 13 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

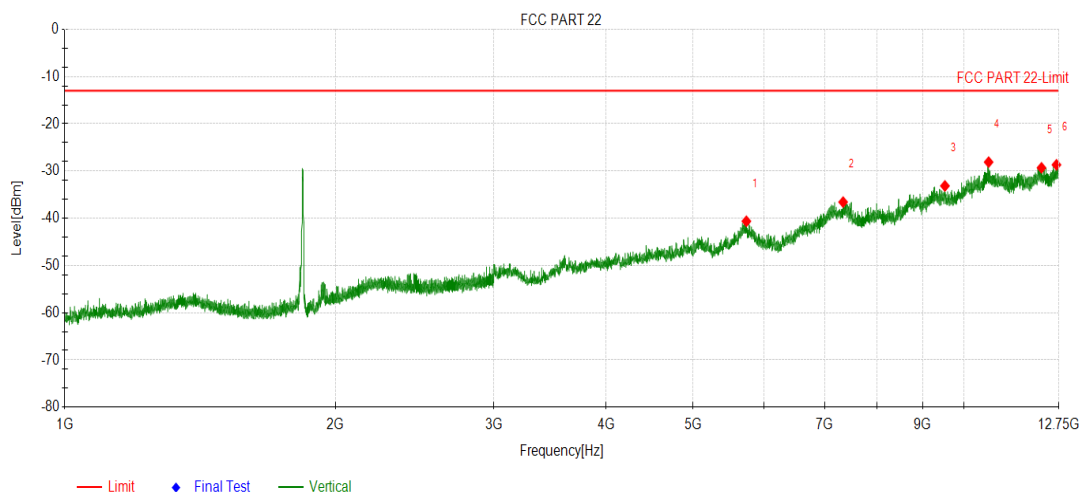


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5835.125	-49.17	-40.64	-13.00	27.64	8.53	101	154	Horizontal
2	7026.281	-48.18	-37.86	-13.00	24.86	10.32	248	162	Horizontal
3	9608.343	-48.84	-32.32	-13.00	19.32	16.52	334	157	Horizontal
4	10831.81	-49.00	-30.24	-13.00	17.24	18.76	26	167	Horizontal
5	12303.50	-49.16	-27.99	-13.00	14.99	21.17	302	149	Horizontal
6	12645.71	-49.79	-27.83	-13.00	14.83	21.96	54	134	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 25 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

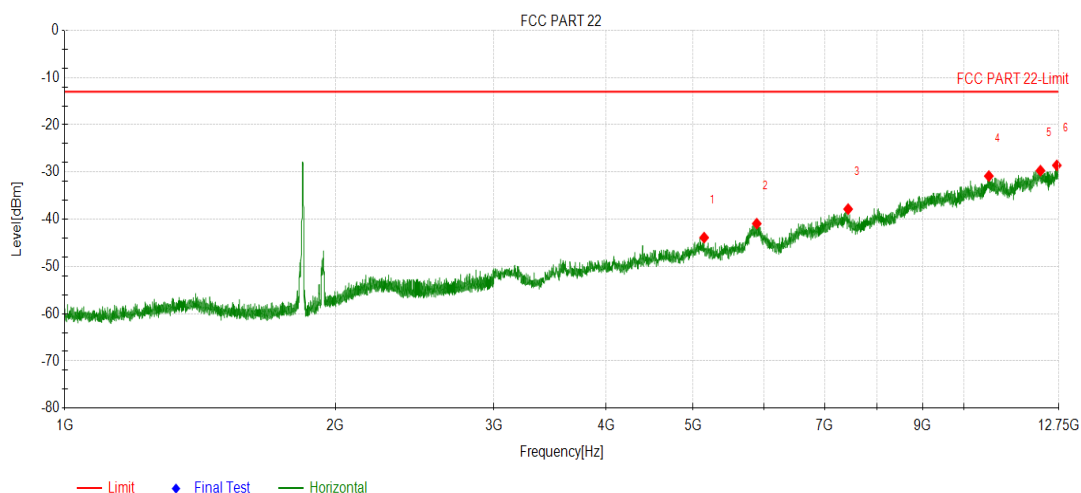


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5730.000	-48.83	-40.63	-13.00	27.63	8.20	13	154	Vertical
2	7341.187	-49.28	-36.57	-13.00	23.57	12.71	349	167	Vertical
3	9530.062	-49.12	-33.15	-13.00	20.15	15.97	46	137	Vertical
4	10658.62	-48.32	-28.11	-13.00	15.11	20.21	320	169	Vertical
5	12204.00	-50.58	-29.31	-13.00	16.31	21.27	43	151	Vertical
6	12680.53	-50.41	-28.68	-13.00	15.68	21.73	319	144	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 25 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

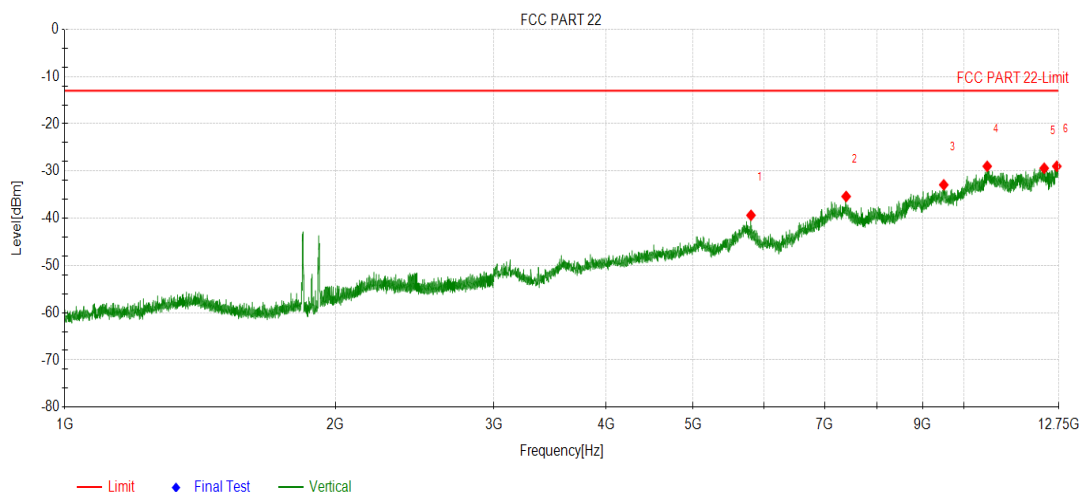


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5142.562	-47.75	-43.88	-13.00	30.88	3.87	65	156	Horizontal
2	5884.781	-49.43	-40.93	-13.00	27.93	8.50	295	155	Horizontal
3	7436.250	-48.84	-37.84	-13.00	24.84	11.00	249	134	Horizontal
4	10663.50	-49.69	-30.85	-13.00	17.85	18.84	112	149	Horizontal
5	12171.09	-50.85	-29.71	-13.00	16.71	21.14	330	158	Horizontal
6	12692.71	-50.49	-28.59	-13.00	15.59	21.90	27	142	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 25 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

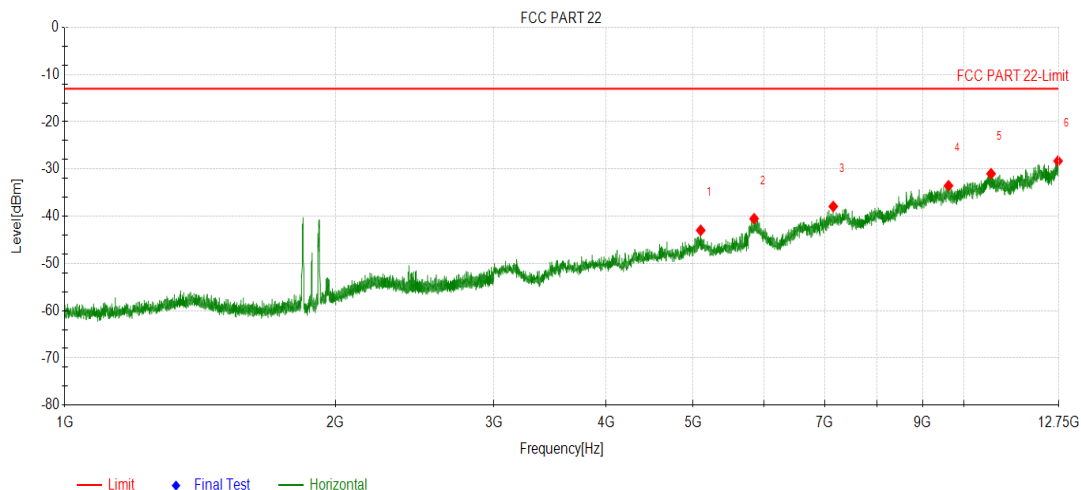


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5798.250	-47.37	-39.37	-13.00	26.37	8.00	39	151	Vertical
2	7398.468	-48.53	-35.39	-13.00	22.39	13.14	324	162	Vertical
3	9500.812	-49.07	-32.92	-13.00	19.92	16.15	56	134	Vertical
4	10619.62	-49.28	-28.99	-13.00	15.99	20.29	301	148	Vertical
5	12288.09	-50.29	-29.41	-13.00	16.41	20.88	61	146	Vertical
6	12691.50	-50.78	-28.99	-13.00	15.99	21.79	296	165	Vertical

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 25 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

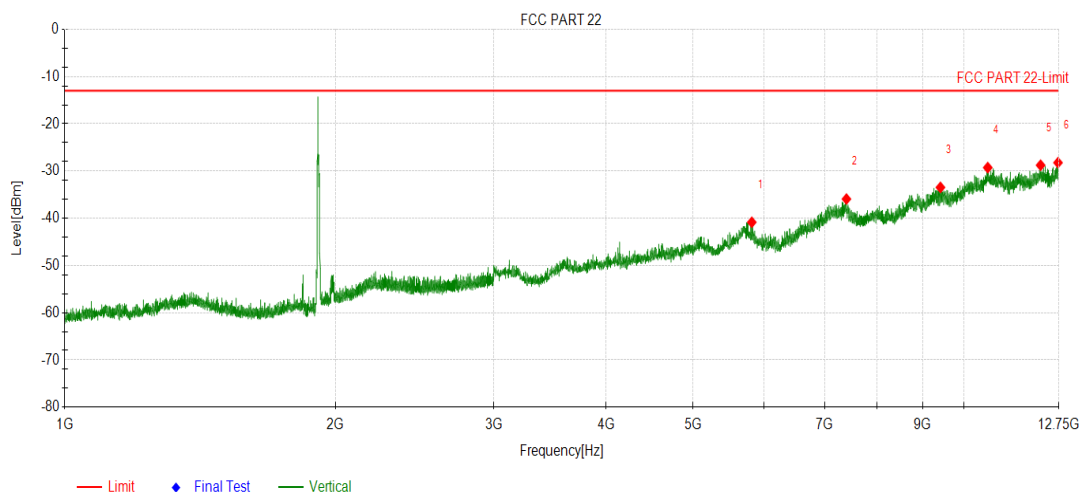


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5097.468	-47.17	-42.98	-13.00	29.98	4.19	58	155	Horizontal
2	5844.562	-48.89	-40.51	-13.00	27.51	8.38	301	161	Horizontal
3	7158.375	-48.94	-37.92	-13.00	24.92	11.02	76	134	Horizontal
4	9617.812	-49.92	-33.53	-13.00	20.53	16.39	287	142	Horizontal
5	10725.65	-49.92	-30.99	-13.00	17.99	18.93	83	165	Horizontal
6	12732.93	-50.45	-28.30	-13.00	15.30	22.15	274	152	Horizontal

Remark:

1. Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 25 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

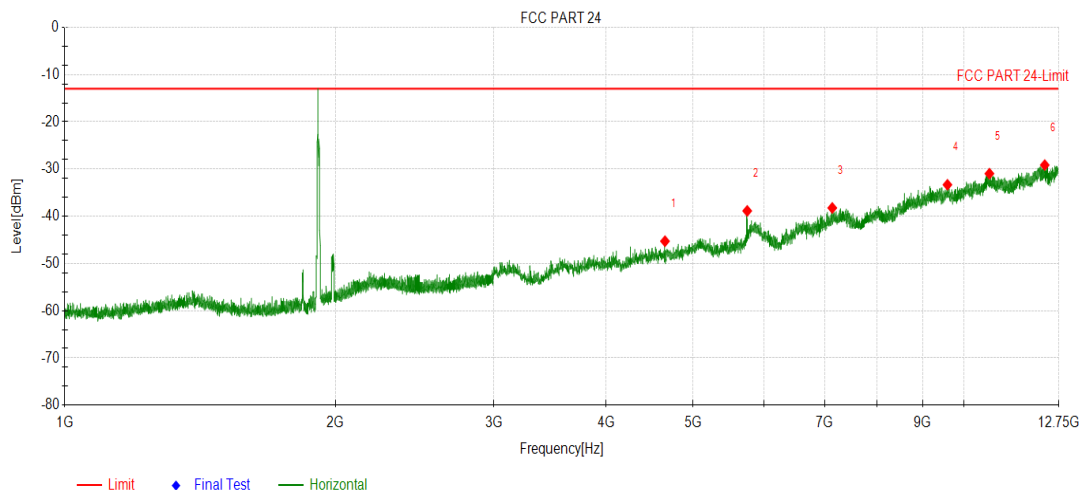


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5810.437	-48.64	-40.84	-13.00	27.84	7.80	93	154	Vertical
2	7404.562	-49.02	-35.93	-13.00	22.93	13.09	262	158	Vertical
3	9420.375	-49.40	-33.47	-13.00	20.47	15.93	108	134	Vertical
4	10634.25	-49.53	-29.27	-13.00	16.27	20.26	261	156	Vertical
5	12175.96	-49.93	-28.77	-13.00	15.77	21.16	335	162	Vertical
6	12730.50	-50.27	-28.23	-13.00	15.23	22.04	34	139	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 25 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

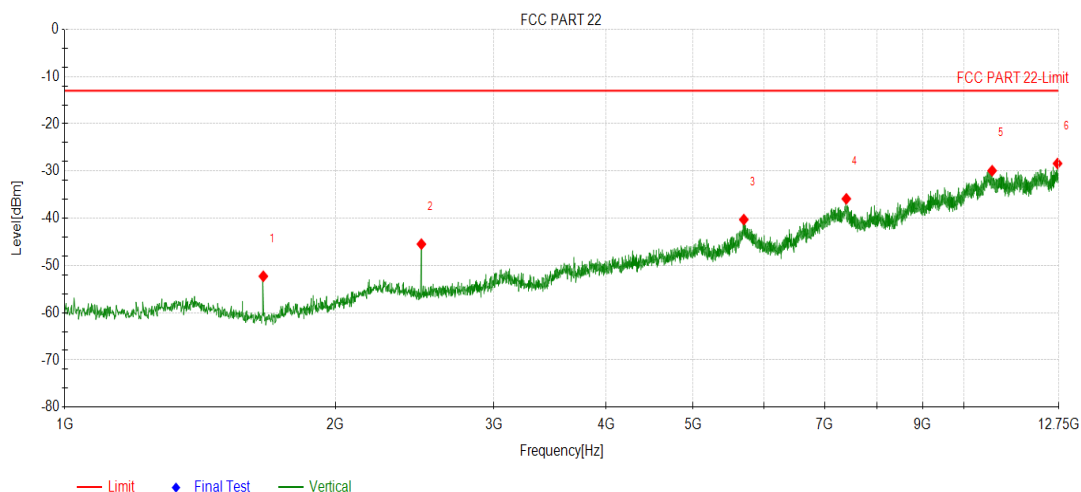


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	4651.406	-47.13	-45.28	-13.00	32.28	1.85	61	136	Horizontal
2	5742.187	-45.02	-38.86	-13.00	25.86	6.16	287	154	Horizontal
3	7140.093	-49.12	-38.24	-13.00	25.24	10.88	37	149	Horizontal
4	9591.000	-49.78	-33.32	-13.00	20.32	16.46	327	165	Horizontal
5	10679.34	-49.86	-30.97	-13.00	17.97	18.89	41	157	Horizontal
6	12306.37	-50.07	-29.16	-13.00	16.16	20.91	327	137	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 22) Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

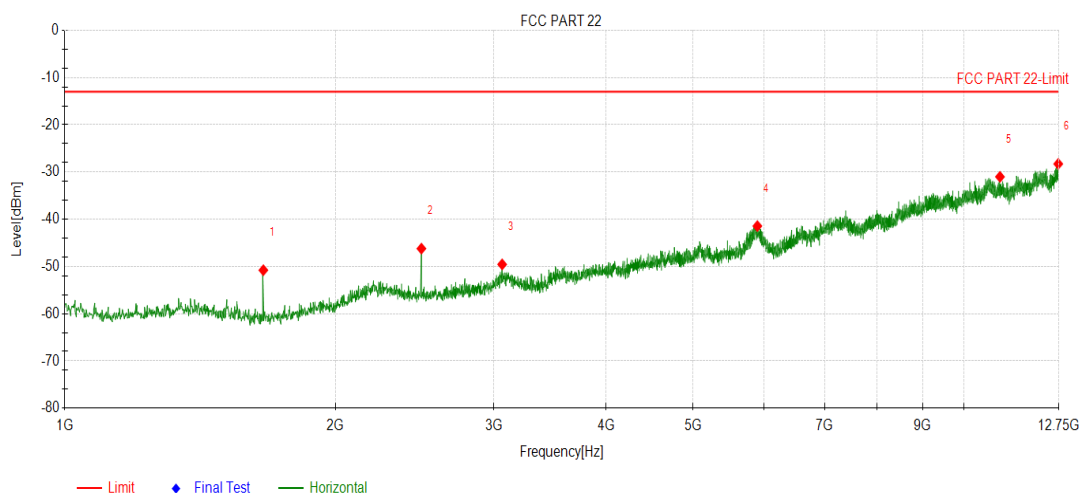


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1662.406	-41.16	-52.28	-13.00	39.28	-11.12	162	151	Vertical
2	2492.250	-39.24	-45.47	-13.00	32.47	-6.23	201	161	Vertical
3	5692.656	-48.79	-40.28	-13.00	27.28	8.51	319	158	Vertical
4	7402.281	-49.16	-35.88	-13.00	22.88	13.28	57	167	Vertical
5	10753.96	-50.21	-29.93	-13.00	16.93	20.28	218	134	Vertical
6	12716.21	-50.56	-28.40	-13.00	15.40	22.16	54	144	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 22) Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

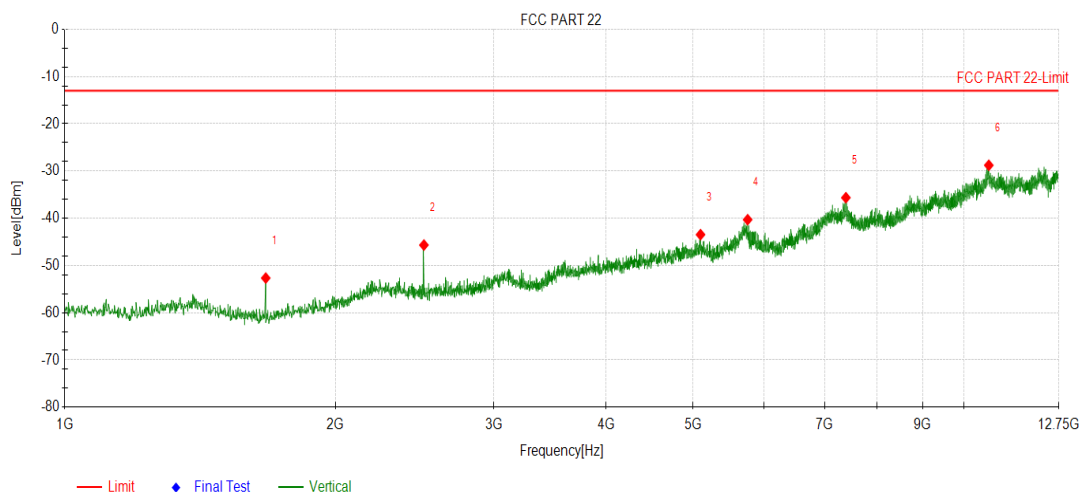


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1662.406	-39.75	-50.78	-13.00	37.78	-11.03	76	159	Horizontal
2	2492.250	-39.67	-46.21	-13.00	33.21	-6.54	284	148	Horizontal
3	3065.062	-45.51	-49.55	-13.00	36.55	-4.04	150	131	Horizontal
4	5893.875	-50.43	-41.44	-13.00	28.44	8.99	210	157	Horizontal
5	10972.81	-50.04	-31.01	-13.00	18.01	19.03	301	146	Horizontal
6	12739.71	-50.63	-28.28	-13.00	15.28	22.35	57	133	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 22) Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

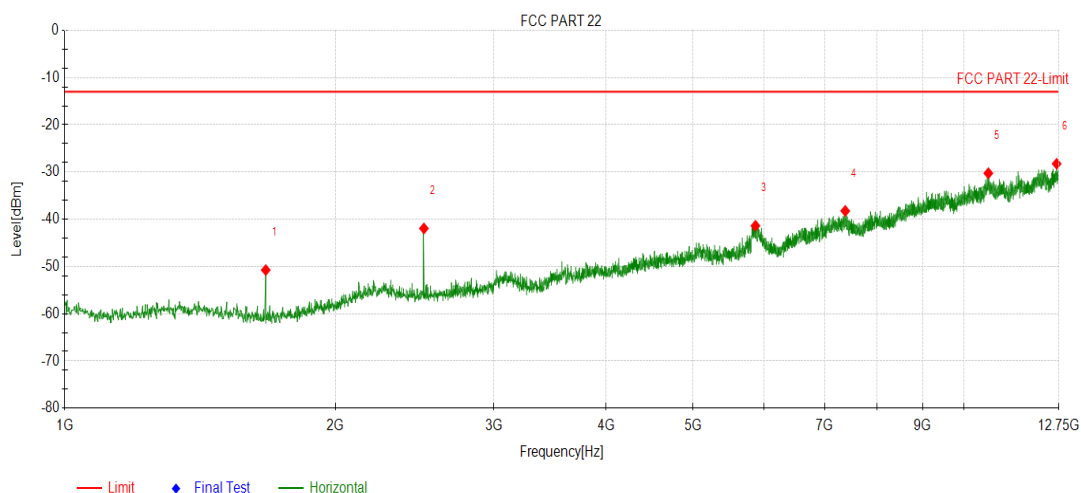


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1672.687	-41.53	-52.66	-13.00	39.66	-11.13	154	159	Vertical
2	2508.406	-39.46	-45.67	-13.00	32.67	-6.21	214	151	Vertical
3	5094.875	-48.11	-43.46	-13.00	30.46	4.65	307	134	Vertical
4	5748.468	-48.67	-40.30	-13.00	27.30	8.37	58	146	Vertical
5	7393.468	-48.89	-35.64	-13.00	22.64	13.25	292	164	Vertical
6	10662.90	-49.42	-28.78	-13.00	15.78	20.64	73	137	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 22) Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

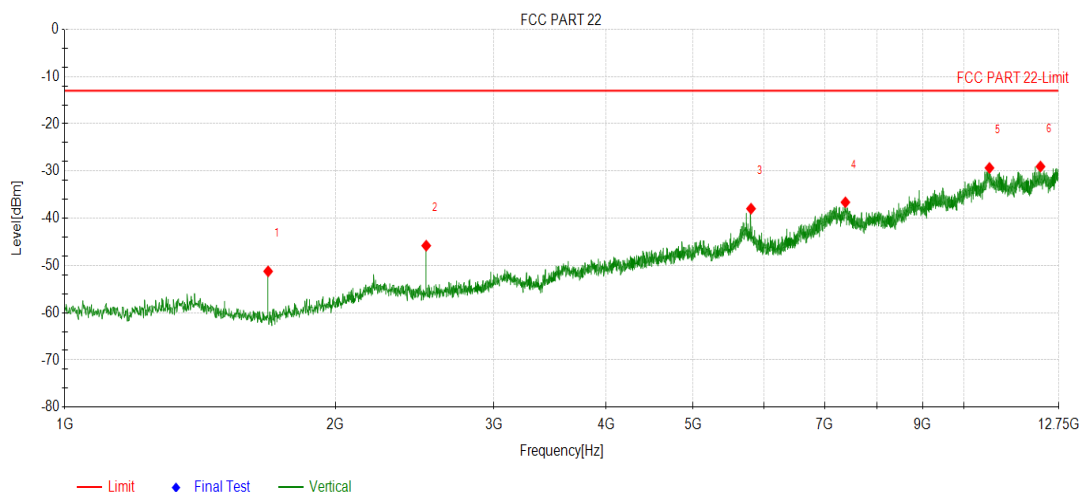


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1672.687	-39.71	-50.75	-13.00	37.75	-11.04	37	154	Horizontal
2	2508.406	-35.43	-41.94	-13.00	28.94	-6.51	338	164	Horizontal
3	5864.500	-50.14	-41.38	-13.00	28.38	8.76	349	158	Horizontal
4	7381.718	-49.71	-38.23	-13.00	25.23	11.48	18	134	Horizontal
5	10649.68	-49.47	-30.25	-13.00	17.25	19.22	327	139	Horizontal
6	12688.31	-50.40	-28.25	-13.00	15.25	22.15	34	148	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 22) Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

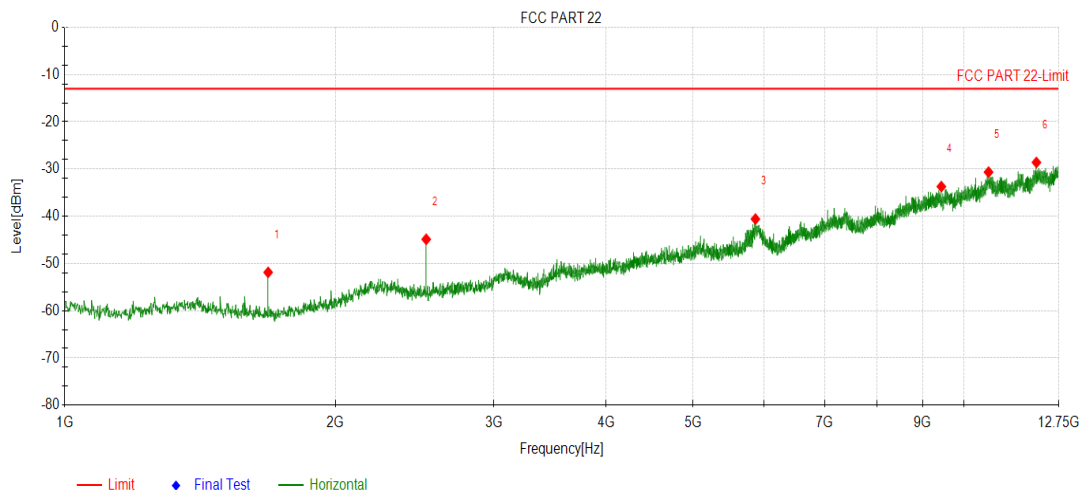


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1682.968	-40.10	-51.23	-13.00	38.23	-11.13	256	134	Vertical
2	2523.093	-39.65	-45.80	-13.00	32.80	-6.15	114	158	Vertical
3	5798.406	-45.98	-37.97	-13.00	24.97	8.01	345	161	Vertical
4	7384.656	-49.78	-36.61	-13.00	23.61	13.17	19	158	Vertical
5	10680.53	-49.98	-29.34	-13.00	16.34	20.64	67	137	Vertical
6	12172.78	-50.32	-29.05	-13.00	16.05	21.27	296	149	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 22) Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

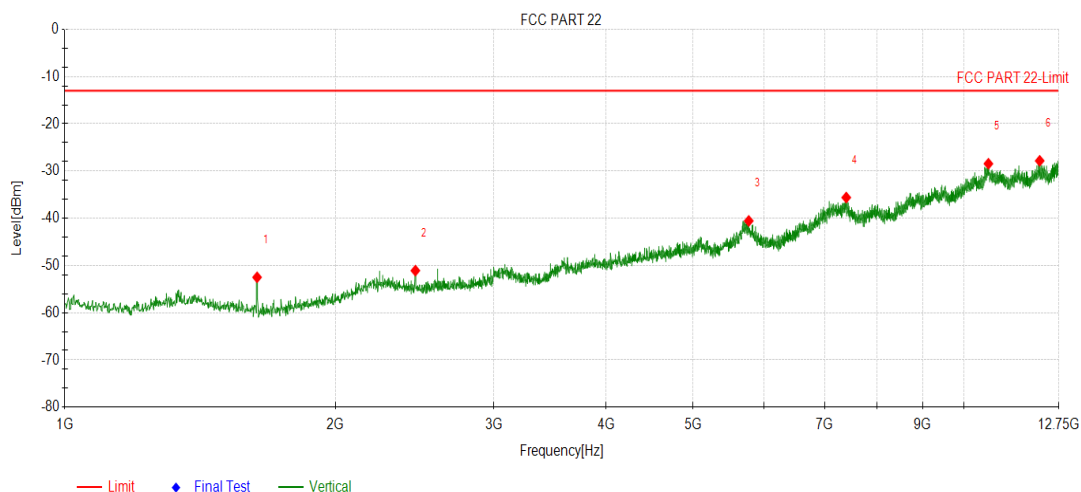


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1682.968	-40.81	-51.87	-13.00	38.87	-11.06	252	131	Horizontal
2	2523.093	-38.42	-44.88	-13.00	31.88	-6.46	107	149	Horizontal
3	5864.500	-49.35	-40.59	-13.00	27.59	8.76	349	157	Horizontal
4	9442.375	-49.53	-33.71	-13.00	20.71	15.82	24	164	Horizontal
5	10655.56	-49.90	-30.65	-13.00	17.65	19.25	159	155	Horizontal
6	12046.46	-49.48	-28.60	-13.00	15.60	20.88	207	139	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 90) Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

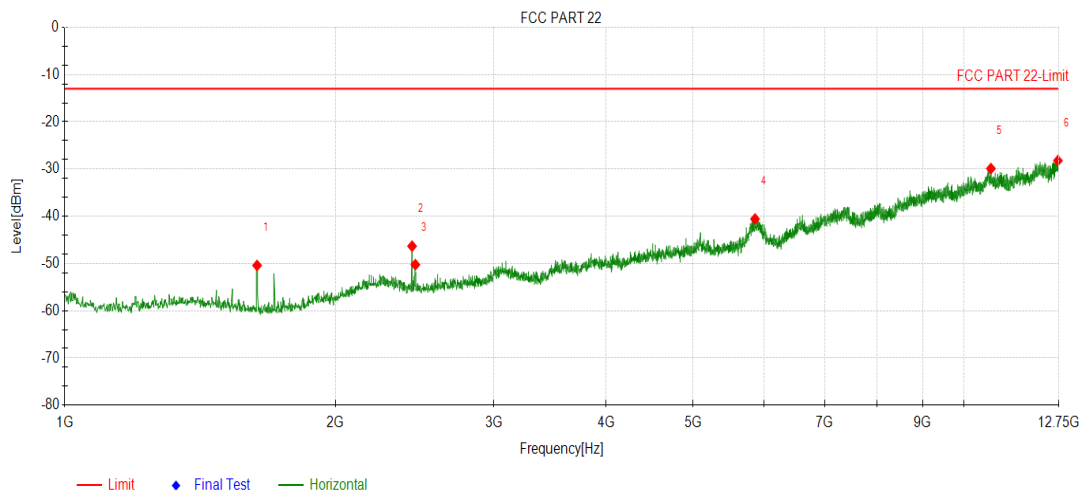


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1635.968	-41.41	-52.50	-13.00	39.50	-11.09	74	165	Vertical
2	2454.062	-44.92	-51.08	-13.00	38.08	-6.16	291	157	Vertical
3	5764.625	-48.81	-40.56	-13.00	27.56	8.25	307	149	Vertical
4	7400.812	-48.91	-35.61	-13.00	22.61	13.30	54	138	Vertical
5	10652.62	-49.09	-28.45	-13.00	15.45	20.64	38	149	Vertical
6	12147.81	-48.97	-27.83	-13.00	14.83	21.14	329	151	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 26(Part 90) Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

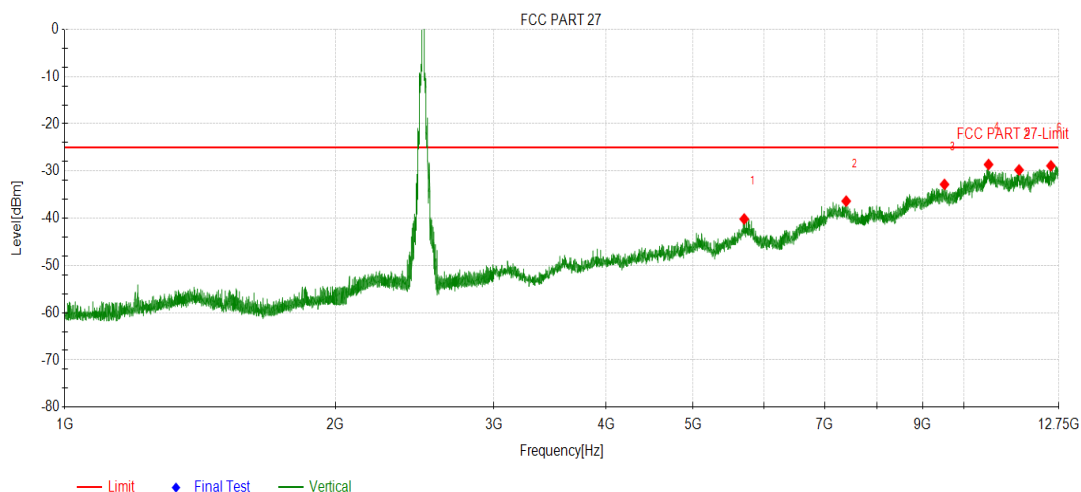


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	1635.968	-39.43	-50.41	-13.00	37.41	-10.98	89	155	Horizontal
2	2433.500	-39.78	-46.33	-13.00	33.33	-6.55	284	148	Horizontal
3	2454.062	-43.70	-50.24	-13.00	37.24	-6.54	67	167	Horizontal
4	5858.625	-49.28	-40.57	-13.00	27.57	8.71	301	137	Horizontal
5	10721.65	-49.21	-29.90	-13.00	16.90	19.31	222	159	Horizontal
6	12727.96	-50.52	-28.21	-13.00	15.21	22.31	137	148	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 41 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

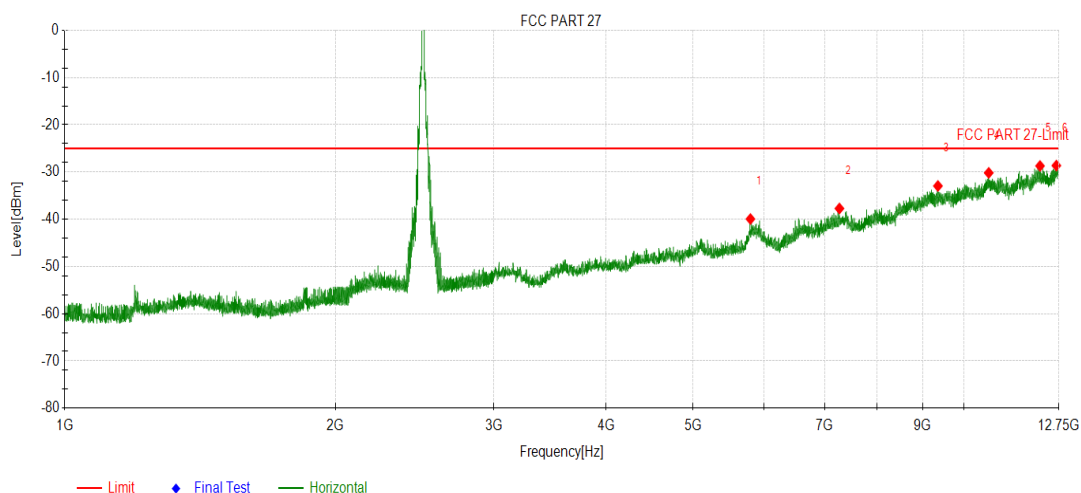


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5698.312	-48.39	-40.15	-25.00	15.15	8.24	92	146	Vertical
2	7399.687	-49.53	-36.38	-25.00	11.38	13.15	253	134	Vertical
3	9519.093	-48.87	-32.83	-25.00	7.83	16.04	107	149	Vertical
4	10656.18	-48.83	-28.62	-25.00	3.62	20.21	257	152	Vertical
5	11522.71	-50.32	-29.77	-25.00	4.77	20.55	145	162	Vertical
6	12502.59	-49.04	-28.89	-25.00	3.89	20.15	217	167	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 41 Tx Low CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

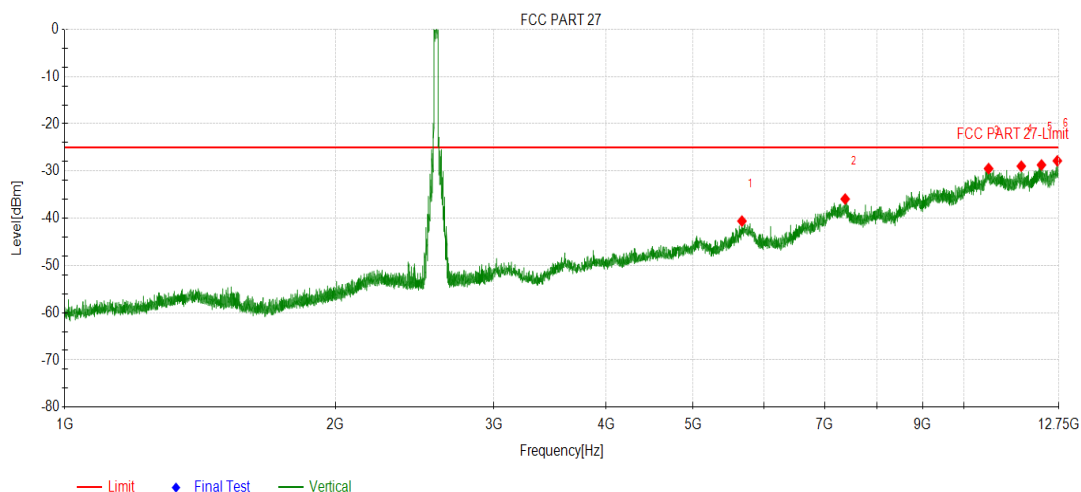


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5789.718	-47.82	-39.94	-25.00	14.94	7.88	111	156	Horizontal
2	7272.937	-48.80	-37.72	-25.00	12.72	11.08	251	149	Horizontal
3	9359.437	-48.82	-32.95	-25.00	7.95	15.87	351	167	Horizontal
4	10661.06	-49.01	-30.17	-25.00	5.17	18.84	10	154	Horizontal
5	12157.68	-49.80	-28.71	-25.00	3.71	21.09	38	134	Horizontal
6	12678.09	-50.44	-28.63	-25.00	3.63	21.81	329	147	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 41 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

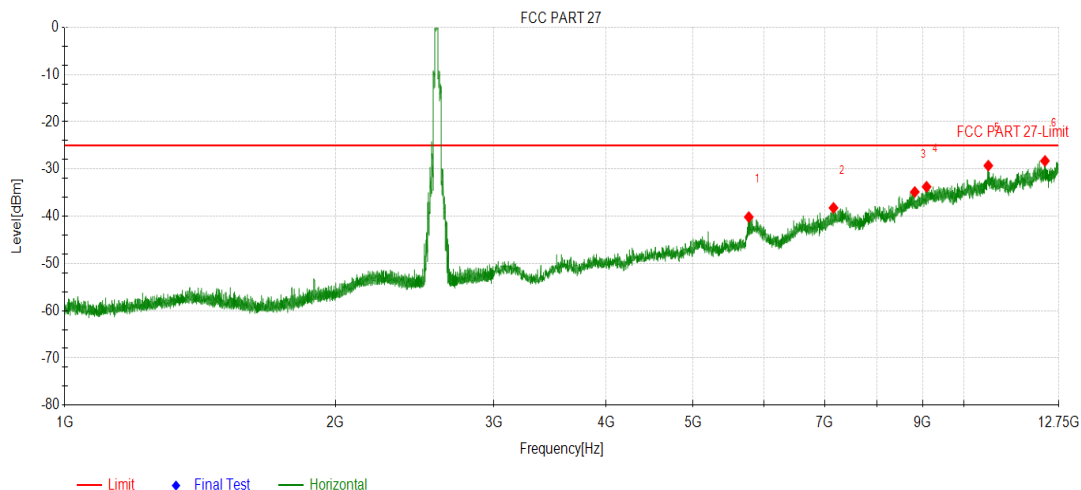


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5665.406	-48.12	-40.60	-25.00	15.60	7.52	122	134	Vertical
2	7380.187	-48.93	-35.93	-25.00	10.93	13.00	241	155	Vertical
3	10657.40	-49.69	-29.48	-25.00	4.48	20.21	319	164	Vertical
4	11588.53	-49.11	-28.97	-25.00	3.97	20.14	46	149	Vertical
5	12204.00	-49.98	-28.71	-25.00	3.71	21.27	340	157	Vertical
6	12709.78	-49.74	-27.84	-25.00	2.84	21.90	18	146	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 41 Tx Mid CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal

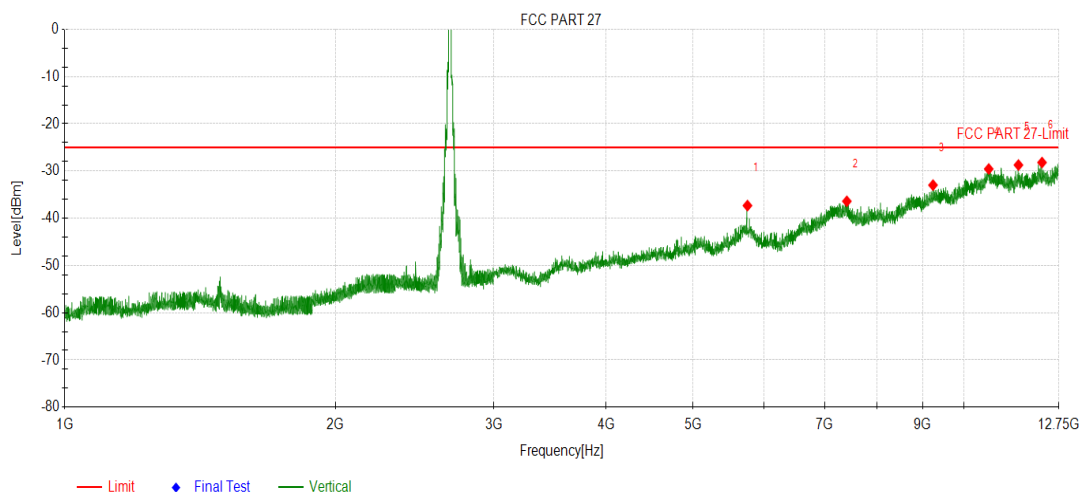


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5765.343	-47.16	-40.16	-25.00	15.16	7.00	123	159	Horizontal
2	7163.250	-49.28	-38.22	-25.00	13.22	11.06	232	148	Horizontal
3	8820.750	-48.94	-34.85	-25.00	9.85	14.09	137	137	Horizontal
4	9091.312	-48.96	-33.75	-25.00	8.75	15.21	224	146	Horizontal
5	10648.87	-48.09	-29.29	-25.00	4.29	18.80	148	134	Horizontal
6	12313.68	-49.17	-28.27	-25.00	3.27	20.90	224	165	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 41 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Vertical

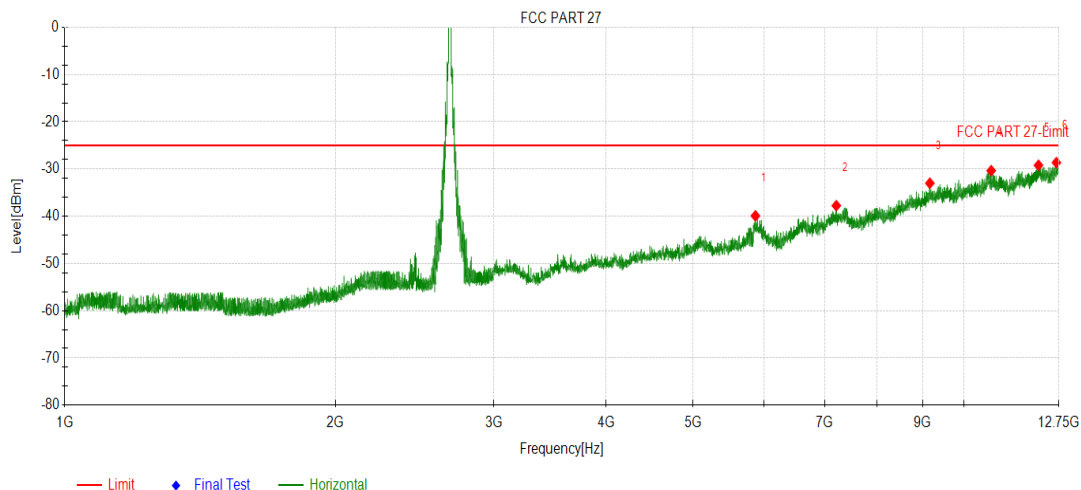


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5745.843	-45.47	-37.32	-25.00	12.32	8.15	154	130	Vertical
2	7411.875	-49.39	-36.40	-25.00	11.40	12.99	204	151	Vertical
3	9242.437	-48.73	-32.98	-25.00	7.98	15.75	348	160	Vertical
4	10661.06	-49.76	-29.56	-25.00	4.56	20.20	12	157	Vertical
5	11504.43	-49.39	-28.73	-25.00	3.73	20.66	337	149	Vertical
6	12221.06	-49.38	-28.19	-25.00	3.19	21.19	28	133	Vertical

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

Product Name:	Smartphone	Product model:	U683CL
Test By:	Mike	Test mode:	Band 41 Tx High CH
Test Voltage:	DC 3.85V	Polarization:	Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Height [cm]	Polarity
1	5864.062	-48.36	-39.92	-25.00	14.92	8.44	79	161	Horizontal
2	7214.437	-49.04	-37.75	-25.00	12.75	11.29	283	157	Horizontal
3	9168.093	-48.65	-33.01	-25.00	8.01	15.64	90	130	Horizontal
4	10728.09	-49.26	-30.34	-25.00	5.34	18.92	264	168	Horizontal
5	12108.93	-50.11	-29.20	-25.00	4.20	20.91	311	140	Horizontal
6	12680.53	-50.46	-28.64	-25.00	3.64	21.82	54	153	Horizontal

Remark:

- Final Level = Receiver Read level + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of below 1GHz and above 12.75GHz are lower than the limit 20dB and not show in test report.

7. Appendix

The below Appendix was detail result tested by SGS-CSTC Standards Technical Services, Co., Ltd.Shenzhen Branch.

(Date of Test: 2019/1/10-2019/1/24).

Appendix	Item
Appendix B.2 -LTE BAND 2	LTE Band 2
Appendix B.3 -LTE BAND 4	LTE Band 4
Appendix B.4 -LTE BAND 5	LTE Band 5
Appendix B.5 -LTE BAND 13	LTE Band 13
Appendix B.6 -LTE BAND 25	LTE Band 25
Appendix B.7 of LTE BAND 26(814MHz-824MHz)	LTE Band 26(814MHz-824MHz)
Appendix B.8 of LTE BAND 26(824MHz-849MHz)	LTE Band 26(824MHz-849MHz)
Appendix B.9 of LTE BAND 41	LTE Band 41