





FCC ID: 2A22Z-W314

This report concerns: Original Grant

Project No. : 2308C213

Equipment: Botslab PT 4G LTE Cellular Camera

Brand Name : Botslab **Test Model** : W314

Series Model : W314lite, W314pro, W314s

Applicant: Botslab,Inc.

Address : 919 North Market Street, Suite 950, Wilmington, New Castle, Delaware,

USA

Manufacturer : Botslab,Inc.

Address : 919 North Market Street, Suite 950, Wilmington, New Castle, Delaware,

USA

Date of Receipt : Dec. 01, 2023

Date of Test : Dec. 19, 2023 ~ Dec. 21, 2023

Issued Date : Dec. 26, 2023

Report Version : R00

Test Sample: Engineering Sample No.: DG20231201107

Standard(s) : 47 CFR FCC Part 22 Subpart H

47 CFR FCC Part 2

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by:

Edward Li

Edward Li

Sewen Lu

Approved by:

Steven Lu

Room 108, Building 2, No. 1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong 523000 China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com





Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



Table of Contents	Page
REPORT ISSUED HISTORY	4
1 . APPLICABLE STANDARDS	5
2 . SUMMARY OF TEST RESULTS	5
2.1 TEST FACILITY	6
2.2 MEASUREMENT UNCERTAINTY	6
2.3 TEST ENVIRONMENT CONDITIONS	6
3. GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES	9
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATIONOFSYSTEMTESTED	10
3.4 DESCRIPTION OF SUPPORT UNITS	10
4 . TEST RESULT	11
4.1 RADIATED SPURIOUS EMISSIONS MEASUREMENT	11
4.1.1 LIMIT	11
4.1.2 TEST PROCEDURES	11
4.1.3 TEST SETUP LAYOUT 4.1.4 TEST DEVIATION	11
4.1.4 TEST DEVIATION 4.1.5 TEST RESULTS (9KHZ TO 30MHZ)	12 12
4.1.6 TEST RESULTS (30MHZ TO 1000MHZ)	12
4.1.7 TEST RESULTS (ABOVE 1000MHZ)	12
5. LIST OF MEASUREMENT EQUIPMENTS	13
6. EUT TEST PHOTO	14
APPENDIX A - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)	17
APPENDIX B - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)	19
APPENDIX C - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)	22



REPORT ISSUED HISTORY

Report No.	Version	Description Issued Date		Note
BTL-FCCP-1-2308C213	R00	Original Report.	Dec. 26, 2023	Valid



1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.26-2015

The following reference test guidance is not within the scope of accreditation of NVLAP:

ANSI/TIA/EIA-603-E-2016

KDB 971168 D01 Power Meas License Digital Systems v03r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 22 Subpart H & Part 2						
Standard(s) Section	Test Item	Judgment	Remark			
2.1046	Output Power	PASS	Note (2)			
22.913(a)(5)	Effective Radiated Power	PASS	Note (2)			
2.1049	Occupied Bandwidth	PASS	Note (2)			
2.1051 22.917(a)	Conducted Spurious Emissions	PASS	Note (2)			
2.1053 22.917(a)	Radiated Spurious Emissions	PASS				
22.917(a)	Band Edge Measurements	PASS	Note (2)			
22.913(d)	Peak To Average Ratio	PASS	Note (2)			
2.1055 22.355	Frequency Stability	PASS	Note (2)			

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The test results please refer to the test report No: CN23AZPG 001.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of Room 108, Building 2, No. 1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong 523000.

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)
SSL-CB01	CISPR	9kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		30MHz ~ 200MHz	V	4.70
		Н	3.56	
001 0004	OLODD	200MHz ~ 1,000MHz	V	4.92
SSL-CB01 C	CISPR	200MHz ~ 1,000MHz	Н	4.54
		1GHz ~ 6GHz		4.56
		6GHz ~ 18GHz	-	5.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Radiated Spurious Emissions (9 kHz to 30 MHz)	25°C	60%	DC 3.6V	Brand Duan
Radiated Spurious Emissions (30 MHz to 1000 MHz)	24°C	44 ~ 45%	DC 3.6V	Brand Duan
Radiated Spurious Emissions (Above 1000 MHz)	24°C	44 ~ 45%	DC 3.6V	Brand Duan



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Botslab PT 4G LTE Cellular Camer	a	
Brand Name	Botslab		
Test Model	W314		
Series Model	W314lite, W314pro, W314s		
Model Difference(s)	Only differ in model name.		
Hardware Version	W314		
Software Version	3.4.23		
Power Source	1# Supplied from battery. Model: 1INR19/66-4 2# Supplied from Type-C port.		
Power Rating	1# DC 3.6V, 9180mAh, 33.1Wh 2# DC 5V		
IMEI No.	868105045956982		
Modulation Type	WCDMA/HSDPA/HSUPA	Uplink: QPSK,16QAM	
wodulation Type	LTE	Uplink: QPSK,16QAM	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

WCDMA Band V						
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)		
Low Range	4132	826.4	4357	871.4		
Mid Range	4182	836.4	4407	881.4		
High Range	4233	846.6	4458	891.6		

LTE Band 5						
Test Frequency ID	Bandwidth (MHz)	NuL	Frequency of Uplink (MHz)		Frequency of Downlink (MHz)	
	1.4	20407	824.7	2407	869.7	
Low Bongo	3	20415	825.5	2415	870.5	
Low Range	5	20425	826.5	2425	871.5	
	10	20450	829	2450	874	
Mid Range	1.4/3/5/10	20525	836.5	2525	881.5	
	1.4	20643	848.3	2643	893.3	
High Range	3	20635	847.5	2635	892.5	
	5	20625	846.5	2625	891.5	
	10	20600	844	2600	889	



3. Table for Filed Antenna:

Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
®	V.10.00075 W.00		\(\)	0.24	WCDMA Band V
英佳创	YJC-6C275-W03	Dipole	XD	0.24	LTE Band 5

Note: The antenna gain is provided by the manufacturer.



3.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

WCDMA BAND V MODE						
Test Item Available Channel Tested Channel Mode						
Radiated Spurious Emissions 4132 to 4233 4182 WCDMA						

	LTE BAND 5 MODE						
Test Item Available Channel Tested Channel Bandwidth Modulation Mode							
Radiated	20407 to 20643	20525	1.4MHz	QPSK	1RB		
Spurious	20425 to 20625	20525	5MHz	QPSK	1RB		
Emissions	20450 to 20600	20525	10MHz	QPSK	1RB		



EUT	

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment Mfr/Brand		Model/Type No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-



4. TEST RESULT

4.1 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.1.1 LIMIT

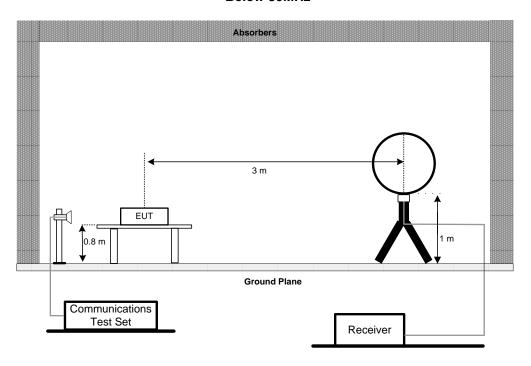
The power of any emission outside of theauthorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm. E (dB μ V/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dB μ V/m.

4.1.2 TEST PROCEDURES

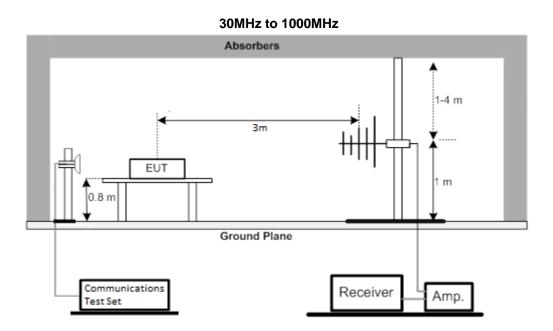
ANSI C63.26-2015 - Section 5.2.7 & 5.5.

4.1.3 TEST SETUP LAYOUT

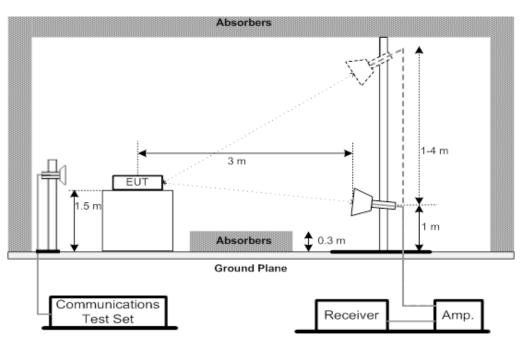
Below 30MHz







Above 1GHz



4.1.4 TEST DEVIATION

No deviation.

4.1.5 TEST RESULTS (9KHZ TO 30MHZ)

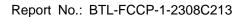
Please refer to the APPENDIX A.

4.1.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX B.

4.1.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX C.





5. LIST OF MEASUREMENT EQUIPMENTS

	Radiated Emissions - 9 kHz to 30 MHz												
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until								
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-025	Apr. 01, 2024								
2	MXE EMI Receiver	Keysight	N9038A	MY59050118	Feb. 10, 2024								
3	Cable INSTRI		EMCCFD400-NM-NM-3000	N/A	Jun. 08, 2024								
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-NM-7000	N/A	Jun. 08, 2024								
5	5 Measurement Software Farad		EZ-EMC Ver.NB-03A1-01	N/A	N/A								
6	966 Chamber room	TaiHe	9*6*6 (NSA&VSWR)	N/A	Jan. 07, 2024								

	Radiated Emissions - 30 MHz to 1 GHz												
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until								
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	01269	May 15, 2024								
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AN-N0697	May 15, 2024								
3	Preamplifier	EMC INSTRUMENT	EMC001330	980825	Feb. 10, 2024								
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-NM-2500	N/A	Jun. 08, 2024								
5	Cable	EMC INSTRUMENT	EMCCFD400-NM-NM-7000	N/A	Jun. 08, 2024								
6	Cable	EMC INSTRUMENT	EMCCFD400-NM-NM-3000	N/A	Jun. 08, 2024								
7	MXE EMI Receiver	KEYSIGHT	N9038A	MY59050118	Feb. 10, 2024								
8	Positioning Controller	MF	MF-7802BS	N/A	N/A								
9	Max-Full Antenna Corp	MF	MFA-560BSN	N/A	N/A								
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A								
11	966 Chamber room	TaiHe	9*6*6 (NSA&VSWR)	N/A	Jan. 07, 2024								

		Radiated I	Emissions - Above 1 GHz		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY59050118	Feb. 10, 2024
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980739	Feb. 10, 2024
4 Cable		EMC INSTRUMENT	EMC104-SM-SM-10000	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-800	N/A	Jun. 08, 2024
7	Double Ridged Broadband Horn Antenna	RF SPIN	DRH18-E	210106A18E	Jul. 04, 2024
8	8 Band Reject Filter COM-MW		ZHPF6-C3000-18000-174	07213126	Jul. 07, 2024
9	Band Reject Filter	COM-MW	ZHPF6-C1500-10000-1753	07213128	Jul. 07, 2024
10	966 Chamber room	TaiHe	9*6*6 (NSA&VSWR)	N/A	Jan. 07, 2024

Remark: "N/A" denotes no model name, serial no. or calibration specified.

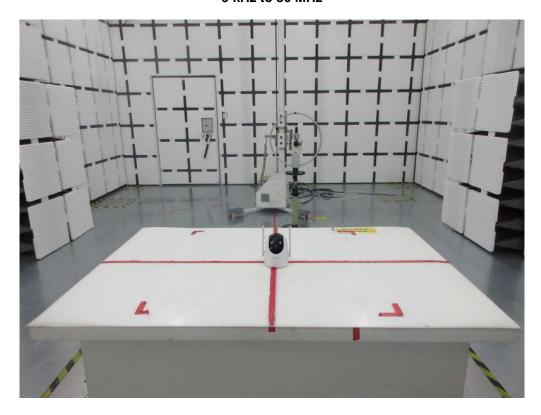
All calibration period of equipment list is one year.

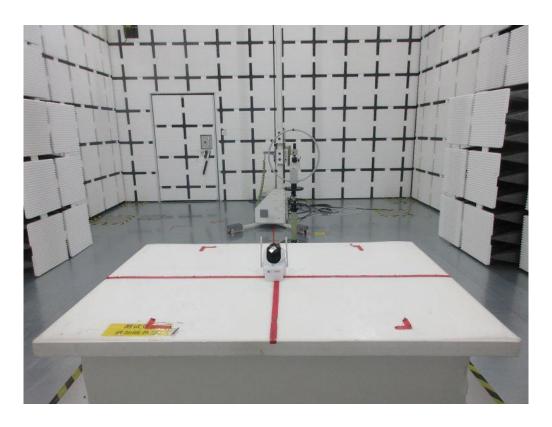


6. EUT TEST PHOTO

Radiated Emissions Test Photos

9 kHz to 30 MHz

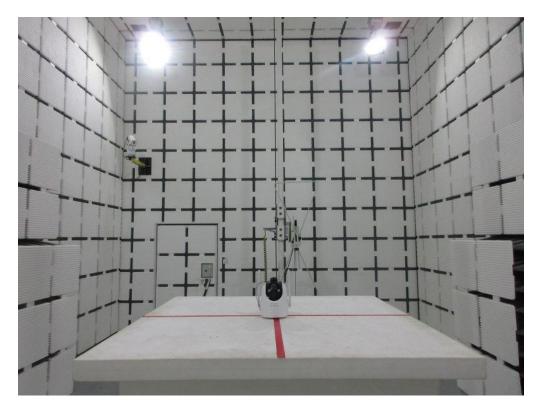


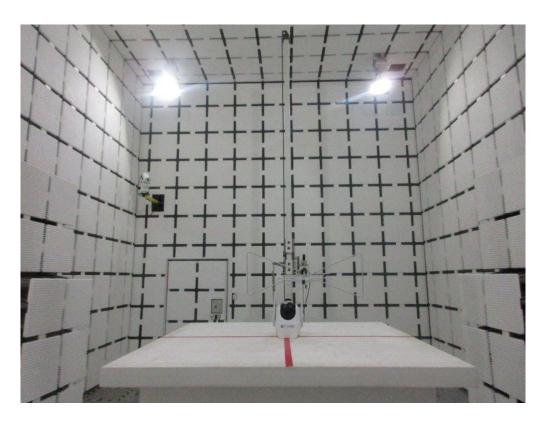




Radiated Emissions Test Photos

30 MHz to 1 GHz



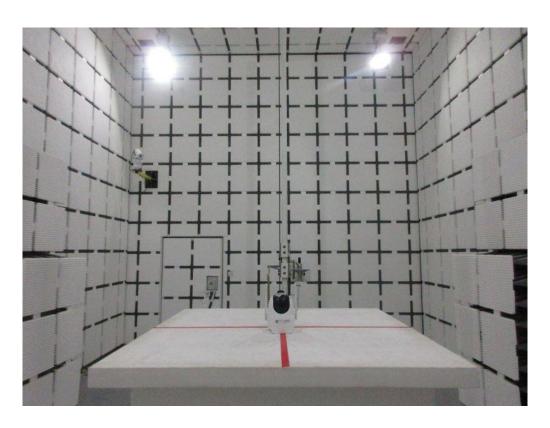




Radiated Emissions Test Photos

Above 1 GHz



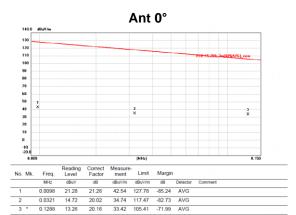




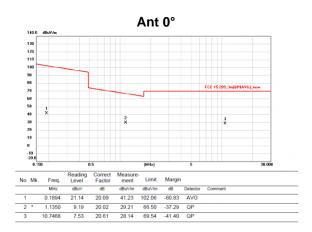
APPENDIX A - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)



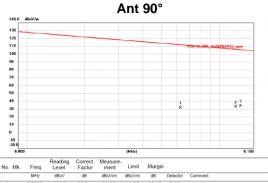
Test Mode : TX Mode



Test Mode : TX Mode

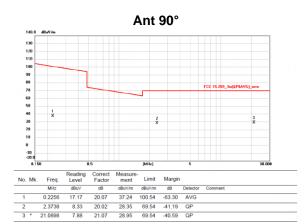


Test Mode : TX Mode



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1		0.0626	11.18	20.04	31.22	111.67	-80.45	AVG		
•	2		0.1215	12.41	20.16	32.57	105.92	-73.35	AVG		
	2		0.1200	12 E0	20.16	22.66	10E 40	71 74	AVC		

Test Mode : TX Mode

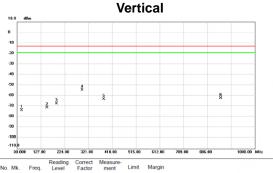




APPENDIX B - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

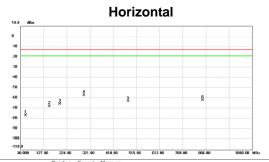


Test Mode: WCDMA Band V_TX CH4182



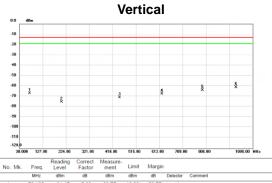
No.	Mk.	Freq.	Freq.				Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment					
1		48.915	-71.16	-2.40	-73.56	-13.00	-60.56	peak						
2		152.220	-69.16	-2.12	-71.28	-13.00	-58.28	peak						
3		191.020	-62.54	-4.75	-67.29	-13.00	-54.29	peak						
4	*	295.780	-52.43	-1.77	-54.20	-13.00	-41.20	peak						
5		384.050	-63.55	0.39	-63.16	-13.00	-50.16	peak						
6		861.290	-71.09	8.87	-62.22	-13.00	-49.22	peak						

Test Mode: WCDMA Band V_TX CH4182



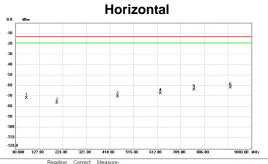
No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Margin			
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1	50.855	-74.25	-2.40	-76.65	-13.00	-63.65	peak		
2	150.765	-65.77	-2.12	-67.89	-13.00	-54.89	peak		
3	194.415	-60.50	-4.95	-65.45	-13.00	-52.45	peak		
4 *	295.780	-55.28	-1.77	-57.05	-13.00	-44.05	peak		
5	480.080	-65.35	2.72	-62.63	-13.00	-49.63	peak		
6	791.935	-70.35	8.59	-61.76	-13.00	-48.76	peak		

Test Mode: LTE Band 5_TX CH20525_1.4MHz



MHz dBm dB dBm dBm dBm dBm dBm dBm dBm dBm		NO.	MK.	Freq.	Level	Factor	ment	Lilling	Margin			
2 205.570 -69.75 -5.38 -75.13 -13.00 -62.13 peak 3 446.615 -73.25 2.17 -71.08 -13.00 -58.08 peak 4 622.670 -72.98 5.76 -67.22 -13.00 -54.22 peak 5 790.965 -72.46 8.58 -63.88 -13.00 -50.88 peak	-			MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
3 446.615 -73.25 2.17 -71.08 -13.00 -58.08 peak 4 622.670 -72.98 5.76 -67.22 -13.00 -54.22 peak 5 790.965 -72.46 8.58 -63.88 -13.00 -50.88 peak		1		73.165	-61.47	-5.30	-66.77	-13.00	-53.77	peak		
4 622.670 -72.98 5.76 -67.22 -13.00 -54.22 peak 5 790.965 -72.46 8.58 -63.88 -13.00 -50.88 peak		2		205.570	-69.75	-5.38	-75.13	-13.00	-62.13	peak		
5 790.965 -72.46 8.58 -63.88 -13.00 -50.88 peak		3		446.615	-73.25	2.17	-71.08	-13.00	-58.08	peak		
The state of the s		4		622.670	-72.98	5.76	-67.22	-13.00	-54.22	peak		
6 * 930.160 -70.75 9.70 -61.05 -13.00 -48.05 peak		5		790.965	-72.46	8.58	-63.88	-13.00	-50.88	peak		
	-	6		930.160	-70.75	9.70	-61.05	-13.00	-48.05	peak		

Test Mode: LTE Band 5_TX CH20525_1.4MHz



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1	74.135	-65.97	-5.53	-71.50	-13.00	-58.50	peak		
2	199.750	-70.63	-5.27	-75.90	-13.00	-62.90	peak		
3	449.525	-72.34	2.27	-70.07	-13.00	-57.07	peak		
4	625.095	-72.83	5.81	-67.02	-13.00	-54.02	peak		
5	763.805	-72.03	8.48	-63.55	-13.00	-50.55	peak		
6 *	914 155	-71 20	0.52	-61 77	-13.00	-48 77	neak		

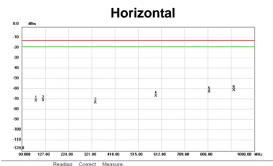


Test Mode: LTE Band 5_TX CH20525_5MHz

Vertical 100 480m 100 480m 100 200 480m

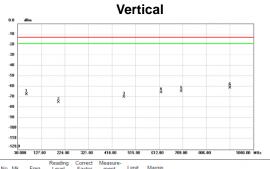
	30.0	00 127.00	224.00	321.00	418.00	515.00	612.00	709.00	906.00	1000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1		74.135	-61.83	-5.53	-67.36	-13.00	-54.36	peak		
2		138.155	-67.84	-2.98	-70.82	-13.00	-57.82	peak		
3		329.245	-72.89	-0.83	-73.72	-13.00	-60.72	peak		
4		595.025	-72.09	5.22	-66.87	-13.00	-53.87	peak		
5		763.320	-71.50	8.48	-63.02	-13.00	-50.02	peak		
6	*	952.470	-70.96	9.94	-61.02	-13.00	-48.02	peak		

Test Mode: LTE Band 5_TX CH20525_5MHz



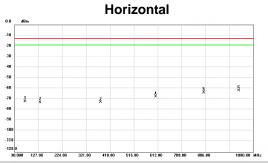
No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	_
1		89.170	-63.05	-8.07	-71.12	-13.00	-58.12	peak		
2		118.755	-66.21	-4.68	-70.89	-13.00	-57.89	peak		_
3		337.005	-72.33	-0.67	-73.00	-13.00	-60.00	peak		Т
4		589.205	-71.67	5.07	-66.60	-13.00	-53.60	peak		
5		812.305	-71.34	8.65	-62.69	-13.00	-49.69	peak		_
6	*	915.125	-70.59	9.53	-61.06	-13.00	-48.06	peak		_

Test Mode: LTE Band 5_TX CH20525_10MHz



No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
- 1		67.345	-63.21	-4.10	-67.31	-13.00	-54.31	peak		_
2		198.780	-69.78	-5.21	-74.99	-13.00	-61.99	peak		_
3		467.470	-72.21	2.53	-69.68	-13.00	-56.68	peak		_
4		620.730	-71.31	5.72	-65.59	-13.00	-52.59	peak		_
5		703.665	-71.30	6.97	-64.33	-13.00	-51.33	peak		_
6	*	903.000	-70.56	9.38	-61.18	-13.00	-48.18	peak		_

Test Mode: LTE Band 5_TX CH20525_10MHz



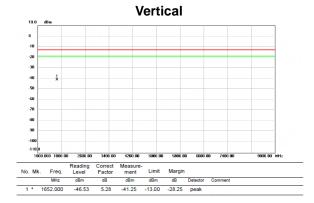
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
- 1		73.165	-66.83	-5.30	-72.13	-13.00	-59.13	peak		
2		133.790	-69.84	-3.34	-73.18	-13.00	-60.18	peak		
3		380.170	-73.01	0.33	-72.68	-13.00	-59.68	peak		
4		603.755	-73.08	5.43	-67.65	-13.00	-54.65	peak		
5		798.725	-72.25	8.62	-63.63	-13.00	-50.63	peak		
6	*	041 315	-71.66	0.83	-61.83	-13.00	-48 83	neak		



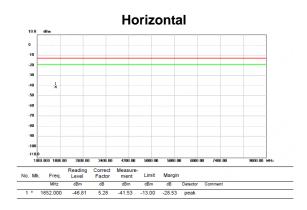
APPENDIX C - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)



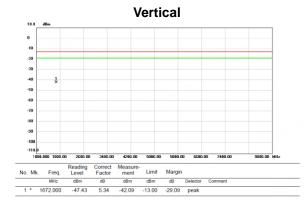
Test Mode: WCDMA Band V_TX CH4182



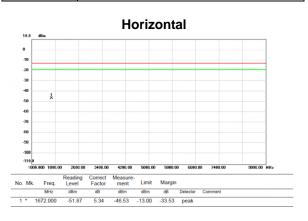
Test Mode: WCDMA Band V_TX CH4182

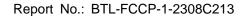


Test Mode: LTE Band 5_TX CH20525_1.4MHz



Test Mode: LTE Band 5_TX CH20525_1.4MHz

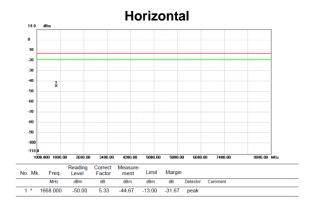




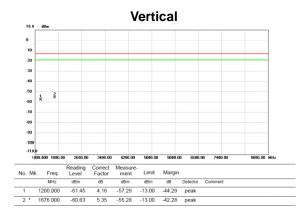


Test Mode: LTE Band 5_TX CH20525_5MHz

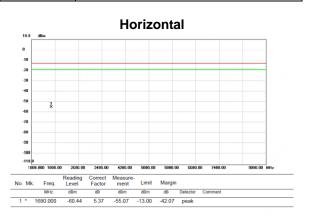
Test Mode: LTE Band 5_TX CH20525_5MHz



Test Mode: LTE Band 5_TX CH20525_10MHz



Test Mode: LTE Band 5_TX CH20525_10MHz



End of Test Report