

FCC TEST REPORT

Product Name: Mobile Phone
Trade Mark: MI
Model No.: M1803E7SH
Report Number: 180117025RFM-3
Test Standards: FCC 47 CFR Part 27
FCC 47 CFR Part 2
FCC ID: 2AFZZ-RME7SH
Test Result: PASS
Date of Issue: February 24, 2018

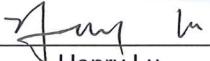
Prepared for:

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The Rainbow City of China Resources, NO.68, Qinghe Middle Street,
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Prepared by:

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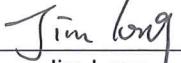
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February 24, 2018



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Version

Version No.	Date	Description
V1.0	February 24, 2018	Original

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	The Rainbow City of China Resources, NO.68,Qinghe Middle Street, Haidian District, Beijing, China
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	The Rainbow City of China Resources, NO.68,Qinghe Middle Street, Haidian District, Beijing, China

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Mobile Phone	
Model No.:	M1803E7SH	
Add. Model No.:	N/A	
Trade Mark:	MI	
DUT Stage:	Identical Prototype	
EUT Supports Function:	GSM Bands:	GSM850/1900
	UTRA Bands:	Band II/ Band IV/ Band V
	E-UTRA Bands:	FDD Band 2/ Band 4/ Band 5/ Band 7
		TDD Band 38
	2.4 GHz ISM Band:	IEEE 802.11b/g/n
		Bluetooth V5.0
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz
		IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz
		IEEE 802.11a/n/ac
	RNSS Bands:	5 470 MHz to 5 725 MHz
		IEEE 802.11a/n/ac
	BSR:	5 725 MHz to 5 850 MHz
		IEEE 802.11a/n/ac
Software Version:	Galileo/ GPS/ GLONASS/ BDS/ SBAS	
Hardware Version:	MIUI9	
Sample Received Date:	P2.2	
Sample Tested Date:	January 18, 2018	
	January 20, 2018 to January 31, 2018	

1.2.1 Description of Accessories

Adapter(1)	
Trade Mark:	XIAOEZ
Model No.:	MDY-08-EZ
Input:	100-240V~50/60 Hz 0.35A
Output:	5V == 2A
AC Cable:	N/A
DC Cable:	N/A
Manufacturer:	Dongguan Aohai Power Technology Co., Ltd.

Adapter(1)	
Trade Mark:	XIAOMI
Model No.:	MDY-08-EZ
Input:	100-240V~50/60 Hz 0.35A
Output:	5V == 2A
AC Cable:	N/A
DC Cable:	N/A
Manufacturer:	Jiangsu Chenyang Electron Co., Ltd.

Battery	
Trade Mark:	MI
Model No.:	BN45
Battery Type:	Lithium-ion Polymer Rechargeable Battery
Rated Voltage:	3.85 Vdc
Limited Charge Voltage:	4.4 Vdc
Rated Capacity:	3900 mAh
Manufacturer:	Sunwoda Electronic Co., Ltd.

Cable(1)	
Trade Mark:	MI
Model No.:	KLC-2639-1
Description:	USB Micro-B Plug Cable
Cable Type:	Shielded without ferrite
Length:	0.8 Meter

Cable(2)	
Trade Mark:	MI
Model No.:	OUS231XI0026
Description:	USB Micro-B Plug Cable
Cable Type:	Shielded without ferrite
Length:	0.8 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	WCDMA, HSDPA, HSUPA, DC-HSDPA, LTE		
Type of Modulation:	WCDMA Band IV		BPSK
	HSDPA/DC-HSDPA Band IV:		QPSK
	HSUPA Band IV:		QPSK
	DC-HSDPA Band IV:		16QAM
	LTE Band 4/7/38:		QPSK, 16QAM, 64QAM
IEMI:	Radiation: 867255030201240, 867255030204038		
	Conducted: 867255030202461, 867255030205258		
Antenna Type:	PIFA Antenna		
Antenna Gain:	WCDMA Band IV:		0.3 dBi
	LTE Band 4:		0.3 dBi
	LTE Band 7:		1.8 dBi
	LTE Band 38:		2 dBi
Normal Test Voltage:	3.85 Vdc		
Extreme Test Voltage:	3.65 to 4.40Vdc		
Extreme Test Temperature:	-30 °C to +50 °C		

Summary of Results:							
Band	BW (MHz)	Frequency Range (MHz)	Max RF Output Power (dBm)		Type of Emission		
			Conducted (Average)	EIRP (Average)	QPSK	16QAM	64QAM
WCDMA Band IV	N/A	1712.4-1752.6	23.08	23.29	4M15F9W	N/A	N/A
LTE Band 4	1.4	1710.7-1754.3	22.81	23.08	1M10G7W	1M09D7W	1M09D7W
	3	1711.5-1753.5	22.82	23.13	2M71G7W	2M70D7W	2M70D7W
	5	1712.5-1752.5	22.85	23.15	4M52G7W	4M52D7W	4M52D7W
	10	1715-1750	22.89	23.09	9M00G7W	9M00D7W	9M00D7W
	15	1717.5-1747.5	22.95	23.22	13M5G7W	13M5D7W	13M5D7W
	20	1720-1745	22.98	23.29	18M0G7W	18M0D7W	18M0D7W
LTE Band 7	5	2502.5-2567.5	22.63	24.45	4M60G7W	4M60D7W	4M59D7W
	10	2505-2565	22.67	24.74	9M01G7W	9M00D7W	8M99D7W
	15	2507.5-2562.5	22.73	24.64	13M5G7W	13M5D7W	13M5D7W
	20	2510-2560	22.76	24.76	18M0G7W	18M0D7W	18M0D7W
LTE Band 38	5	2572.5-2617.5	22.62	24.66	4M50G7W	4M51D7W	4M50D7W
	10	2575-2615	22.66	24.91	9M01G7W	8M99D7W	8M98D7W
	15	2577.5-2612.5	22.69	25.06	13M5G7W	13M5D7W	13M5D7W
	20	2580-2610	22.76	25.08	18M0G7W	18M0D7W	18M0D7W

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
N/A	N/A	N/A	N/A	N/A

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.30 Meter	UnionTrust

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

1.6 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

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1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB

2. TEST SUMMARY

FCC 47 CFR Part 27 Test Cases (WCDMA Band IV & LTE Band 4)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(h)(1)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 7 & Band 38)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(m)(4)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(m)(4)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(m)(4)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input checked="" type="checkbox"/>	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 20, 2015	Dec. 19, 2018
<input checked="" type="checkbox"/>	Receiver	R&S	ESIB26	100114	Dec. 10, 2017	Dec. 10, 2018
<input checked="" type="checkbox"/>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 17, 2017	Dec. 17, 2018
<input checked="" type="checkbox"/>	Preamplifier	HP	8447F	2805A02960	Dec. 10, 2017	Dec. 10, 2018
<input checked="" type="checkbox"/>	Broadband Antenna (Pre-amplifier)	ETS-LINDGREN	3142E-PA	00201891	Dec. 17, 2017	Dec. 17, 2018
<input checked="" type="checkbox"/>	Horn Antenna	ETS-LINDGREN	3117	00164202	Dec. 17, 2017	Dec. 17, 2018
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	Dec. 17, 2017	Dec. 17, 2018
<input type="checkbox"/>	Horn Antenna	ETS-LINDGREN	3116C	00200180	Dec. 17, 2017	Dec. 17, 2018
<input type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Dec. 17, 2017	Dec. 17, 2018
<input checked="" type="checkbox"/>	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
<input checked="" type="checkbox"/>	Test Software	Audix	e3	Software Version: 9.160323		

2/3/4G RF Test System Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)
<input type="checkbox"/>	Spectrum Analyzer	R&S	FSP 13	1164.4391.13	Mar. 22, 2017	Mar. 21, 2018
<input checked="" type="checkbox"/>	Receiver	R&S	ESR7	1316.3003K07-101181-K3	Dec. 10, 2017	Dec. 10, 2018
<input checked="" type="checkbox"/>	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Dec. 10, 2017	Dec. 10, 2018
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	116254	Mar. 22, 2017	Mar. 21, 2018
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMU200	114713	Dec. 10, 2017	Dec. 10, 2018
<input checked="" type="checkbox"/>	DC Source	KIKUSUI	PWR400L	LK003024	Sep. 14, 2017	Sep. 13, 2018
<input type="checkbox"/>	Temp & Humidity chamber	Espec	GL(U)04KA(W)	16921H201P3	Sep. 14, 2017	Sep. 13, 2018
<input checked="" type="checkbox"/>	Temp & Humidity chamber	Votisch	VT4002	58566133290 020	Jun. 19, 2017	Jun. 18, 2018
<input checked="" type="checkbox"/>	Test Software	ECIT	AutomationTestSystem		Software Version: 2.170530	

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

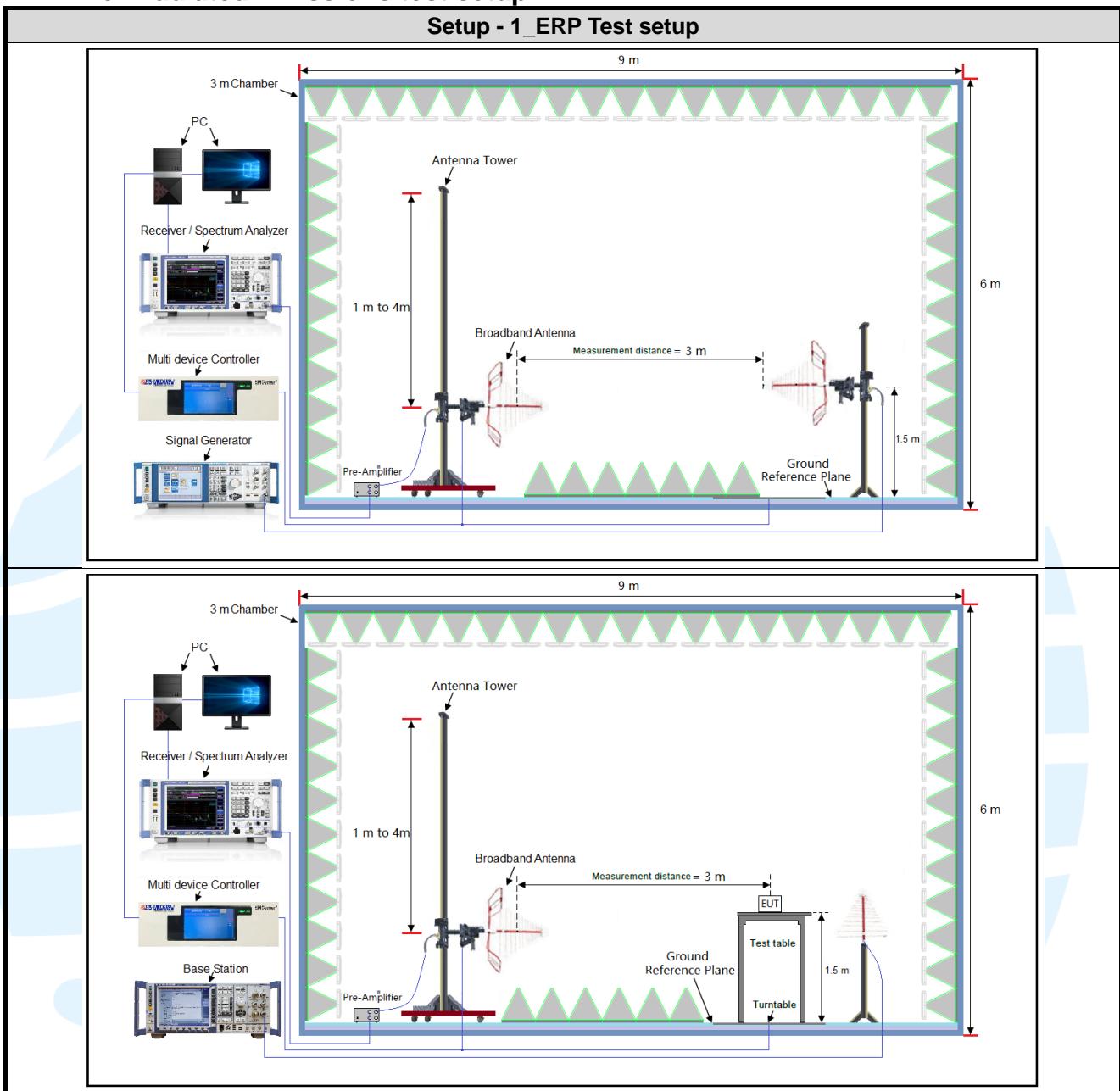
Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (Vdc)	Relative Humidity (%)
TN/VN	+15 to +35	3.85	20 to 75
TL/VL	-30	3.65	20 to 75
TH/VL	+50	3.65	20 to 75
TL/VH	-30	4.40	20 to 75
TH/VH	+50	4.40	20 to 75

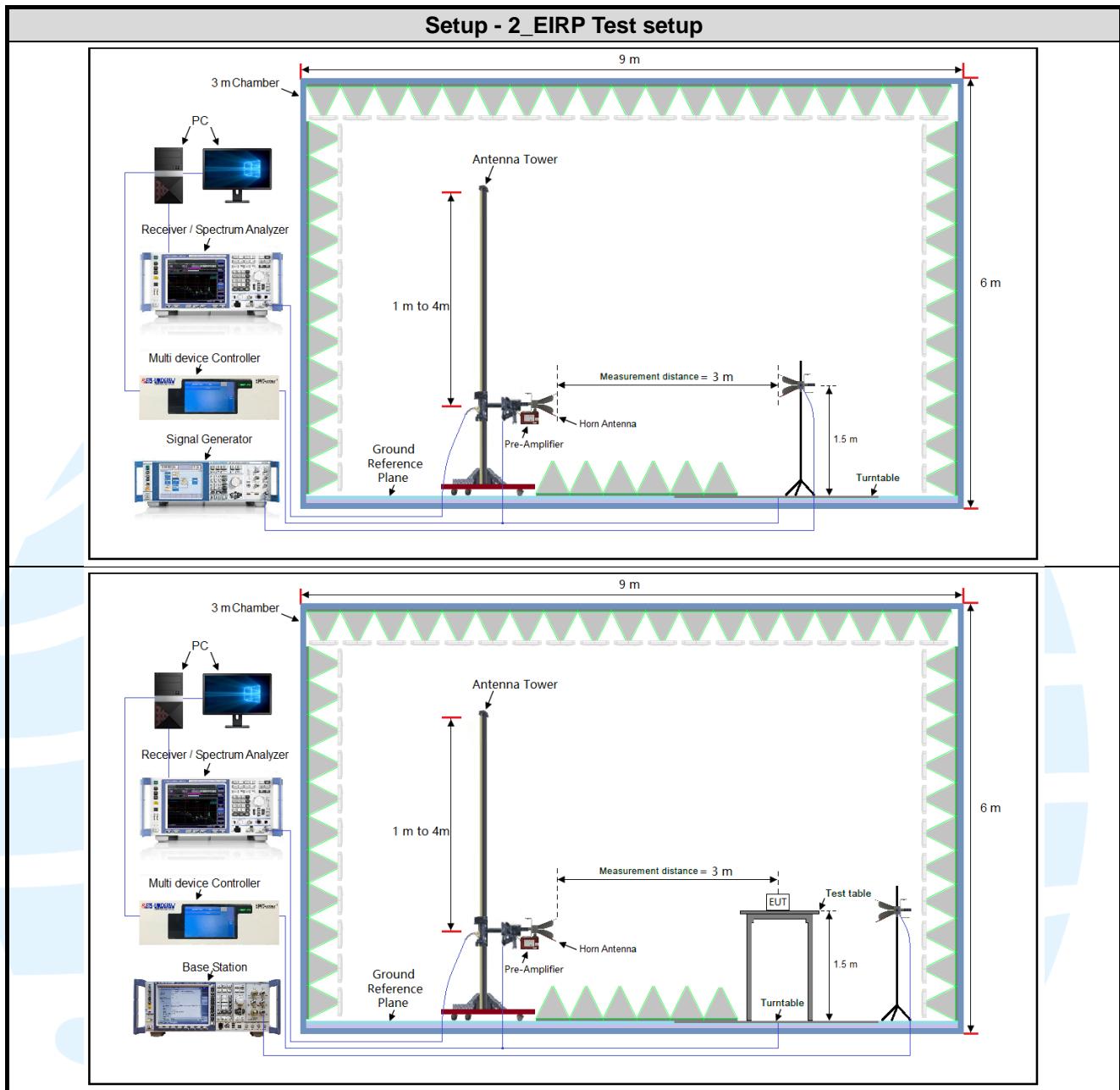
Remark:

- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.65 V to 4.40 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.65 V to 4.40 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

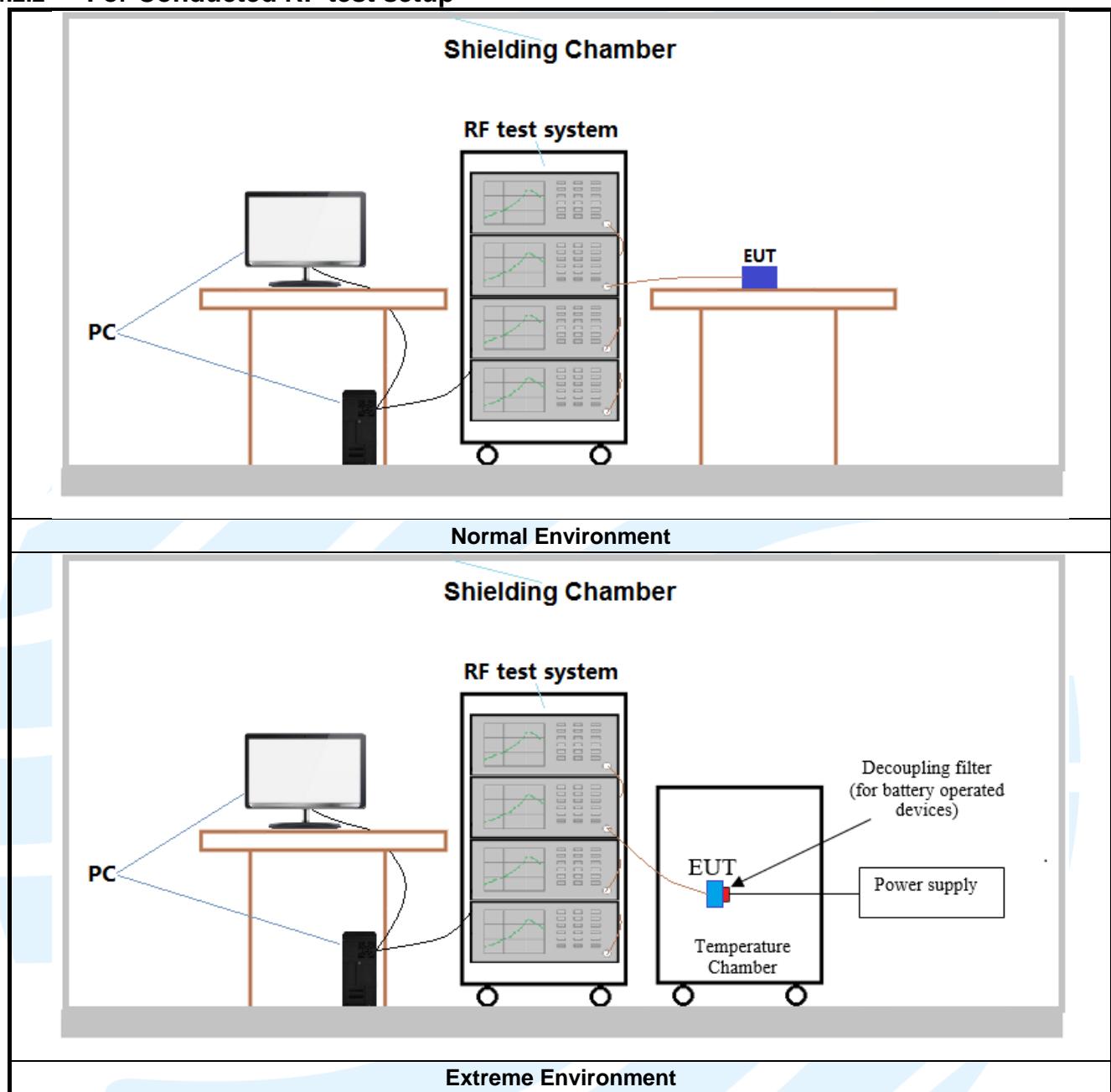
4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup





4.2.2 For Conducted RF test setup



4.3 TEST CHANNELS

Band	Tx/Rx Frequency	RF Channel		
		Low(L)	Middle(M)	High(H)
WCDMA Band IV	Tx (1710 MHz-1755 MHz)	Channel 1312	Channel 1412	Channel 1513
		1712.4 MHz	1732.4 MHz	1752.6 MHz

Band	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink (MHz)
LTE Band 4 TX:1710-1755MHz	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Middle Range	1.4/3/5/10/ 15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE Band 7 TX:2500-2570MHz	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Middle Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560
LTE Band 38 TX:2570-2620MHz	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Middle Range	5/10/ 15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610

4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.85Vdc rechargeable Li-on battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

The worst case was found when positioned as the table below.

Band	Mode	Antenna Port	Worst-case axis positioning
WCDMA Band IV	1TX	Chain 0	Y axis
LTE Band 4	1TX	Chain 0	Y axis
LTE Band 7	1TX	Chain 0	Y axis
LTE Band 38	1TX	Chain 0	Y axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5 PRE-SCAN

Pre-scan under all rate at lowest middle and highest channel, find the transmitter power as below.

4.5.1 WCDMA Band IV

WCDMA Band IV Maximum Average Power (dBm)			
Channel	1312	1412	1513
Frequency(MHz)	1712.4 MHz	1732.4 MHz	1752.6 MHz
RMC 12.2K	23.04	23.01	23.08
HSDPA Subtest-1	22.11	22.08	22.15
HSDPA Subtest-2	22.06	22.03	22.10
HSDPA Subtest-3	21.58	21.55	21.62
HSDPA Subtest-4	21.55	21.52	21.59
HSUPA Subtest-1	22.08	22.05	22.12
HSUPA Subtest-2	20.22	20.19	20.26
HSUPA Subtest-3	21.19	21.16	21.23
HSUPA Subtest-4	20.17	20.14	20.21
HSUPA Subtest-5	22.15	22.12	22.19
DC-HSDPA Subtest-1	22.05	22.02	22.09
DC-HSDPA Subtest-2	22.03	22.00	22.07
DC-HSDPA Subtest-3	21.55	21.52	21.59
DC-HSDPA Subtest-4	21.51	21.48	21.55

4.5.2 LTE Band 4

Modulation	LTE Band 4 Maximum Average Power (dBm)											
	RB			Test Channel			RB			Test Channel		
	Size	Offset	Low	Mid	High	Size	Offset	Low	Mid	High		
Channel Bandwidth: 1.4 MHz									Channel Bandwidth: 3 MHz			
QPSK	1	0	22.58	22.69	22.81	1	0	22.59	22.70	22.82		
	1	2	22.51	22.62	22.74	1	7	22.52	22.63	22.75		
	1	5	22.45	22.56	22.68	1	14	22.46	22.57	22.69		
	3	0	22.56	22.67	22.79	8	0	21.60	21.71	21.83		
	3	1	22.49	22.60	22.72	8	3	21.57	21.68	21.80		
	3	3	22.43	22.54	22.66	8	7	21.54	21.65	21.77		
	6	0	21.55	21.66	21.78	15	0	21.56	21.67	21.79		
16QAM	1	0	21.93	22.04	22.16	1	0	21.94	22.05	22.17		
	1	2	21.92	22.03	22.15	1	7	21.93	22.04	22.16		
	1	5	21.78	21.89	22.01	1	14	21.79	21.90	22.02		
	3	0	21.92	22.03	22.15	8	0	20.75	20.86	20.98		
	3	1	21.91	22.02	22.14	8	3	20.68	20.79	20.91		
	3	3	21.77	21.88	22.00	8	7	20.64	20.75	20.87		
	6	0	20.70	20.81	20.93	15	0	20.71	20.82	20.94		
64QAM	1	0	20.70	20.81	20.93	1	0	20.71	20.82	20.94		
	1	2	20.66	20.77	20.89	1	7	20.67	20.78	20.90		
	1	5	20.62	20.73	20.85	1	14	20.63	20.74	20.86		
	3	0	20.69	20.80	20.92	8	0	19.76	19.87	19.99		
	3	1	20.65	20.76	20.88	8	3	19.73	19.84	19.96		
	3	3	20.61	20.72	20.84	8	7	19.69	19.80	19.92		
	6	0	19.75	19.86	19.98	15	0	19.76	19.87	19.99		

Modulation	LTE Band 4 Maximum Average Power (dBm)									
	RB		Test Channel			RB		Test Channel		
	Size	Offset	Low	Mid	High	Size	Offset	Low	Mid	High
Channel Bandwidth: 5 MHz										Channel Bandwidth: 10 MHz
QPSK	1	0	22.62	22.73	22.85	1	0	22.66	22.77	22.89
	1	12	22.55	22.66	22.78	1	24	22.59	22.70	22.82
	1	24	22.49	22.60	22.72	1	49	22.53	22.64	22.76
	12	0	21.63	21.74	21.86	25	0	21.67	21.78	21.90
	12	6	21.60	21.71	21.83	25	12	21.64	21.75	21.87
	12	13	21.57	21.68	21.80	25	25	21.61	21.72	21.84
	25	0	21.59	21.70	21.82	50	0	21.63	21.74	21.86
16QAM	1	0	21.97	22.08	22.20	1	0	22.01	22.12	22.24
	1	12	21.96	22.07	22.19	1	24	22.00	22.11	22.23
	1	24	21.82	21.93	22.05	1	49	21.86	21.97	22.09
	12	0	20.78	20.89	21.01	25	0	20.82	20.93	21.05
	12	6	20.71	20.82	20.94	25	12	20.75	20.86	20.98
	12	13	20.67	20.78	20.90	25	25	20.71	20.82	20.94
	25	0	20.74	20.85	20.97	50	0	20.78	20.89	21.01
64QAM	1	0	20.74	20.85	20.97	1	0	20.78	20.89	21.01
	1	12	20.70	20.81	20.93	1	24	20.74	20.85	20.97
	1	24	20.66	20.77	20.89	1	49	20.70	20.81	20.93
	12	0	19.79	19.90	20.02	25	0	19.83	19.94	20.06
	12	6	19.76	19.87	19.99	25	12	19.80	19.91	20.03
	12	13	19.72	19.83	19.95	25	25	19.76	19.87	19.99
	25	0	19.79	19.90	20.02	50	0	19.83	19.94	20.06
Channel Bandwidth: 15 MHz					Channel Bandwidth: 20 MHz					
QPSK	1	0	22.72	22.83	22.95	1	0	22.75	22.86	22.98
	1	37	22.65	22.76	22.88	1	50	22.68	22.79	22.91
	1	74	22.59	22.70	22.82	1	99	22.62	22.73	22.85
	37	0	21.73	21.84	21.96	50	0	21.76	21.87	21.99
	37	19	21.70	21.81	21.93	50	25	21.73	21.84	21.96
	37	39	21.67	21.78	21.90	50	50	21.70	21.81	21.93
	75	0	21.69	21.80	21.92	100	0	21.72	21.83	21.95
16QAM	1	0	22.07	22.18	22.30	1	0	22.10	22.21	22.33
	1	37	22.06	22.17	22.29	1	50	22.09	22.20	22.32
	1	74	21.92	22.03	22.15	1	99	21.95	22.06	22.18
	37	0	20.88	20.99	21.11	50	0	20.91	21.02	21.14
	37	19	20.81	20.92	21.04	50	25	20.84	20.95	21.07
	37	39	20.77	20.88	21.00	50	50	20.80	20.91	21.03
	75	0	20.84	20.95	21.07	100	0	20.87	20.98	21.10
64QAM	1	0	20.84	20.95	21.07	1	0	20.87	20.98	21.10
	1	37	20.80	20.91	21.03	1	50	20.83	20.94	21.06
	1	74	20.76	20.87	20.99	1	99	20.79	20.90	21.02
	37	0	19.89	20.00	20.12	50	0	19.92	20.03	20.15
	37	19	19.86	19.97	20.09	50	25	19.89	20.00	20.12
	37	39	19.82	19.93	20.05	50	50	19.85	19.96	20.08
	75	0	19.89	20.00	20.12	100	0	19.92	20.03	20.15

4.5.3 LTE Band 7

Modulation	LTE Band 7 Maximum Average Power (dBm)									
	RB		Test Channel			RB		Test Channel		
	Size	Offset	Low	Mid	High	Size	Offset	Low	Mid	High
Channel Bandwidth: 5 MHz					Channel Bandwidth: 10 MHz					
QPSK	1	0	22.51	22.63	22.45	1	0	22.55	22.67	22.49
	1	12	22.49	22.61	22.43	1	24	22.53	22.65	22.47
	1	24	22.43	22.55	22.37	1	49	22.47	22.59	22.41
	12	0	21.50	21.62	21.44	25	0	21.54	21.66	21.48
	12	6	21.49	21.61	21.43	25	12	21.53	21.65	21.47
	12	13	21.47	21.59	21.41	25	25	21.51	21.63	21.45
	25	0	21.49	21.61	21.43	50	0	21.53	21.65	21.47
16QAM	1	0	21.67	21.79	21.61	1	0	21.71	21.83	21.65
	1	12	21.64	21.76	21.58	1	24	21.68	21.80	21.62
	1	24	21.61	21.73	21.55	1	49	21.65	21.77	21.59
	12	0	20.66	20.78	20.60	25	0	20.70	20.82	20.64
	12	6	20.63	20.75	20.57	25	12	20.67	20.79	20.61
	12	13	20.57	20.69	20.51	25	25	20.61	20.73	20.55
	25	0	20.62	20.74	20.56	50	0	20.66	20.78	20.60
64QAM	1	0	20.63	20.75	20.57	1	0	20.67	20.79	20.61
	1	12	20.59	20.71	20.53	1	24	20.63	20.75	20.57
	1	24	20.55	20.67	20.49	1	49	20.59	20.71	20.53
	12	0	19.64	19.76	19.58	25	0	19.68	19.80	19.62
	12	6	19.59	19.71	19.53	25	12	19.63	19.75	19.57
	12	13	19.56	19.68	19.50	25	25	19.60	19.72	19.54
	25	0	19.59	19.71	19.53	50	0	19.63	19.75	19.57
Channel Bandwidth: 15 MHz					Channel Bandwidth: 20 MHz					
QPSK	1	0	22.61	22.73	22.55	1	0	22.64	22.76	22.58
	1	37	22.59	22.71	22.53	1	50	22.62	22.74	22.56
	1	74	22.53	22.65	22.47	1	99	22.56	22.68	22.50
	37	0	21.60	21.72	21.54	50	0	21.63	21.75	21.57
	37	19	21.59	21.71	21.53	50	25	21.62	21.74	21.56
	37	39	21.57	21.69	21.51	50	50	21.60	21.72	21.54
	75	0	21.59	21.71	21.53	100	0	21.62	21.74	21.56
16QAM	1	0	21.77	21.89	21.71	1	0	21.80	21.92	21.74
	1	37	21.74	21.86	21.68	1	50	21.77	21.89	21.71
	1	74	21.71	21.83	21.65	1	99	21.74	21.86	21.68
	37	0	20.76	20.88	20.70	50	0	20.79	20.91	20.73
	37	19	20.73	20.85	20.67	50	25	20.76	20.88	20.70
	37	39	20.67	20.79	20.61	50	50	20.70	20.82	20.64
	75	0	20.72	20.84	20.66	100	0	20.75	20.87	20.69
64QAM	1	0	20.73	20.85	20.67	1	0	20.76	20.88	20.70
	1	37	20.69	20.81	20.63	1	50	20.72	20.84	20.66
	1	74	20.65	20.77	20.59	1	99	20.68	20.80	20.62
	37	0	19.74	19.86	19.68	50	0	19.77	19.89	19.71
	37	19	19.69	19.81	19.63	50	25	19.72	19.84	19.66
	37	39	19.66	19.78	19.60	50	50	19.69	19.81	19.63
	75	0	19.69	19.81	19.63	100	0	19.72	19.84	19.66

4.5.4 LTE Band 38

Modulation	LTE Band 38 Maximum Average Power (dBm)									
	RB		Test Channel			RB		Test Channel		
	Size	Offset	Low	Mid	High	Size	Offset	Low	Mid	High
Channel Bandwidth: 5 MHz					Channel Bandwidth: 10 MHz					
QPSK	1	0	22.60	22.58	22.62	1	0	22.64	22.62	22.66
	1	12	22.58	22.56	22.60	1	24	22.62	22.60	22.64
	1	24	22.56	22.54	22.58	1	49	22.60	22.58	22.62
	12	0	21.71	21.69	21.73	25	0	21.75	21.73	21.77
	12	6	21.67	21.65	21.69	25	12	21.71	21.69	21.73
	12	13	21.63	21.61	21.65	25	25	21.67	21.65	21.69
	25	0	21.62	21.60	21.64	50	0	21.66	21.64	21.68
16QAM	1	0	21.77	21.75	21.79	1	0	21.81	21.79	21.83
	1	12	21.73	21.71	21.75	1	24	21.77	21.75	21.79
	1	24	21.69	21.67	21.71	1	49	21.73	21.71	21.75
	12	0	20.80	20.78	20.82	25	0	20.84	20.82	20.86
	12	6	20.78	20.76	20.80	25	12	20.82	20.80	20.84
	12	13	20.73	20.71	20.75	25	25	20.77	20.75	20.79
	25	0	20.78	20.76	20.80	50	0	20.82	20.80	20.84
64QAM	1	0	20.83	20.81	20.85	1	0	20.87	20.85	20.89
	1	12	20.80	20.78	20.82	1	24	20.84	20.82	20.86
	1	24	20.76	20.74	20.78	1	49	20.80	20.78	20.82
	12	0	19.98	19.96	20.00	25	0	20.02	20.00	20.04
	12	6	19.96	19.94	19.98	25	12	20.00	19.98	20.02
	12	13	19.93	19.91	19.95	25	25	19.97	19.95	19.99
	25	0	19.91	19.89	19.93	50	0	19.95	19.93	19.97
Channel Bandwidth: 15 MHz					Channel Bandwidth: 20 MHz					
QPSK	1	0	22.67	22.65	22.69	1	0	22.74	22.72	22.76
	1	37	22.65	22.63	22.67	1	50	22.72	22.70	22.74
	1	74	22.63	22.61	22.65	1	99	22.70	22.68	22.72
	37	0	21.78	21.76	21.80	50	0	21.85	21.83	21.87
	37	19	21.74	21.72	21.76	50	25	21.81	21.79	21.83
	37	39	21.70	21.68	21.72	50	50	21.77	21.75	21.79
	75	0	21.69	21.67	21.71	100	0	21.76	21.74	21.78
16QAM	1	0	21.84	21.82	21.86	1	0	21.91	21.89	21.93
	1	37	21.80	21.78	21.82	1	50	21.87	21.85	21.89
	1	74	21.76	21.74	21.78	1	99	21.83	21.81	21.85
	37	0	20.87	20.85	20.89	50	0	20.94	20.92	20.96
	37	19	20.85	20.83	20.87	50	25	20.92	20.90	20.94
	37	39	20.80	20.78	20.82	50	50	20.87	20.85	20.89
	75	0	20.85	20.83	20.87	100	0	20.92	20.90	20.94
64QAM	1	0	20.90	20.88	20.92	1	0	20.97	20.95	20.99
	1	37	20.87	20.85	20.89	1	50	20.94	20.92	20.96
	1	74	20.83	20.81	20.85	1	99	20.90	20.88	20.92
	37	0	20.05	20.03	20.07	50	0	20.12	20.10	20.14
	37	19	20.03	20.01	20.05	50	25	20.10	20.08	20.12
	37	39	20.00	19.98	20.02	50	50	20.07	20.05	20.09
	75	0	19.98	19.96	20.00	100	0	20.05	20.03	20.07

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

Band	Radiated	Conducted
WCDMA Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link

LTE worse case mode applicability and tested channel detail as below:

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
ERP/EIRP	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	□	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
Conducted output power	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
99%&26dB Bandwidth	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	□	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
peak-to-average ratio	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Band Edge at antenna terminals	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Spurious emissions at antenna terminals	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Field strength of spurious radiation	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	□	☒	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	□	□	☒	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	□	□	☒	☒	☒	☒
Frequency stability	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	□	□	□	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	□	□	□	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	□	□	□	☒	☒	☒

Remark:

The mark “☒” means is chosen for testing; The mark “□” means is not chosen for testing;
 The mark “-” means is not supported bandwidth

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2 Subpart J	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
3	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
4	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03

5.2 ERP OR EIRP

Test Requirement: FCC 47 CFR Part 2.1046(a)

WCDMA Band IV & LTE Band 4: FCC 47 CFR Part 27.50(d)(4)

LTE Band 7 & Band 38: FCC 47 CFR Part 27.50(h)(2)

Test Method: KDB 971168 D01v03 & ANSI/TIA-603-E-2016

Limit:

FCC 47 CFR Part 27.50(d)(4): Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(h)(2): Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure:

Test procedure as below:

- 1) The EUT was powered ON and placed on a 0.8/1.5m high table at a 3 meter semi/fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

$$\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

$$\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

$$\text{EIRP}=\text{ERP}+2.15\text{dB}$$

where:

Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel, the middle channel the Highest channel
- 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, and found the Y axis positioning which it is worse case.
- 12) Repeat above procedures until all frequencies measured was complete.

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Peak	100kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak

Test Setup: Refer to section 4.2.1 for details.

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Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: See table below

5.2.1 WCDMA Band IV

Channel	WCDMA RMC 12.2Kbps Maximum EIRP (dBm)	Limit (dBm)	Result
Lowest	23.21	30.00	Pass
Middle	23.19	30.00	Pass
Highest	23.29	30.00	Pass

5.2.2 LTE Band 4

Maximum EIRP (dBm)					
Channel	QPSK; RB:1	16QAM; RB:1	64QAM; RB:1	Limit (dBm)	Result
Channel Bandwidth: 1.4MHz					
Lowest	22.52	22.01	20.78	30.00	Pass
Middle	23.04	22.41	21.09	30.00	Pass
Highest	23.08	22.07	21.21	30.00	Pass
Channel Bandwidth: 3MHz					
Lowest	22.49	22.18	20.93	30.00	Pass
Middle	22.84	22.33	21.06	30.00	Pass
Highest	23.13	22.07	20.84	30.00	Pass
Channel Bandwidth: 5MHz					
Lowest	22.99	21.94	20.69	30.00	Pass
Middle	22.82	22.16	21.17	30.00	Pass
Highest	23.15	22.20	20.88	30.00	Pass
Channel Bandwidth: 10MHz					
Lowest	23.03	22.02	21.13	30.00	Pass
Middle	22.87	22.37	21.00	30.00	Pass
Highest	23.09	22.16	20.91	30.00	Pass
Channel Bandwidth: 15MHz					
Lowest	22.73	21.99	20.89	30.00	Pass
Middle	23.22	22.28	21.01	30.00	Pass
Highest	22.88	22.36	21.40	30.00	Pass
Channel Bandwidth: 20MHz					
Lowest	22.77	22.20	20.84	30.00	Pass
Middle	22.85	22.41	20.93	30.00	Pass
Highest	23.29	22.73	21.46	30.00	Pass

5.2.3 LTE Band 7

Maximum EIRP (dBm)					
Channel	QPSK; RB:1	16QAM; RB:1	64QAM; RB:1	Limit (dBm)	Result
Channel Bandwidth: 5MHz					
Lowest	24.25	23.59	22.71	33.01	Pass
Middle	24.45	23.79	22.46	33.01	Pass
Highest	24.25	23.76	22.55	33.01	Pass
Channel Bandwidth: 10MHz					
Lowest	24.49	23.75	22.57	33.01	Pass
Middle	24.74	23.86	22.70	33.01	Pass
Highest	24.35	23.47	22.80	33.01	Pass
Channel Bandwidth: 15MHz					
Lowest	24.37	23.86	22.57	33.01	Pass
Middle	24.64	23.77	22.61	33.01	Pass
Highest	24.40	23.86	22.41	33.01	Pass
Channel Bandwidth: 20MHz					
Lowest	24.68	23.98	22.52	33.01	Pass
Middle	24.76	23.98	22.60	33.01	Pass
Highest	24.59	23.47	22.69	33.01	Pass

5.2.4 LTE Band 38

Maximum EIRP (dBm)					
Channel	QPSK; RB:1	16QAM; RB:1	64QAM; RB:1	Limit (dBm)	Result
Channel Bandwidth: 5MHz					
Lowest	24.66	24.05	23.20	33.01	Pass
Middle	24.59	24.14	22.81	33.01	Pass
Highest	24.61	24.02	23.21	33.01	Pass
Channel Bandwidth: 10MHz					
Lowest	24.91	23.72	22.89	33.01	Pass
Middle	24.87	23.95	22.85	33.01	Pass
Highest	24.76	24.14	23.20	33.01	Pass
Channel Bandwidth: 15MHz					
Lowest	25.06	24.05	23.00	33.01	Pass
Middle	24.84	23.97	23.27	33.01	Pass
Highest	25.04	24.07	23.26	33.01	Pass
Channel Bandwidth: 20MHz					
Lowest	24.92	24.15	22.90	33.01	Pass
Middle	24.74	23.94	22.94	33.01	Pass
Highest	25.08	23.88	23.31	33.01	Pass

5.3 CONDUCTED OUTPUT POWER

FCC 47 CFR Part 2.1046(a)

Test Requirement: **WCDMA Band IV & LTE Band 4:** FCC 47 CFR Part 27.50(d)(4)

LTE Band 7 & Band 38: FCC 47 CFR Part 27.50(h)(2)

Test Method: KDB 971168 D01v03 & ANSI/TIA-603-E-2016

Limit:

FCC 47 CFR Part 27.50(d)(4): Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(h)(2): Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure:

The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: [The full result refer to section 4.5 for details.](#)

5.4 PEAK-TO-AVERAGE RATIO

Test Requirement: FCC 47 CFR Part 24.232(d)

Test Method: KDB 971168 D01v03

Limit: In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

- a) Set resolution/measurement bandwidth \geq signal's occupied bandwidth
- b) Set the number of counts to a value that stabilizes the measured CCDF curve
- c) Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

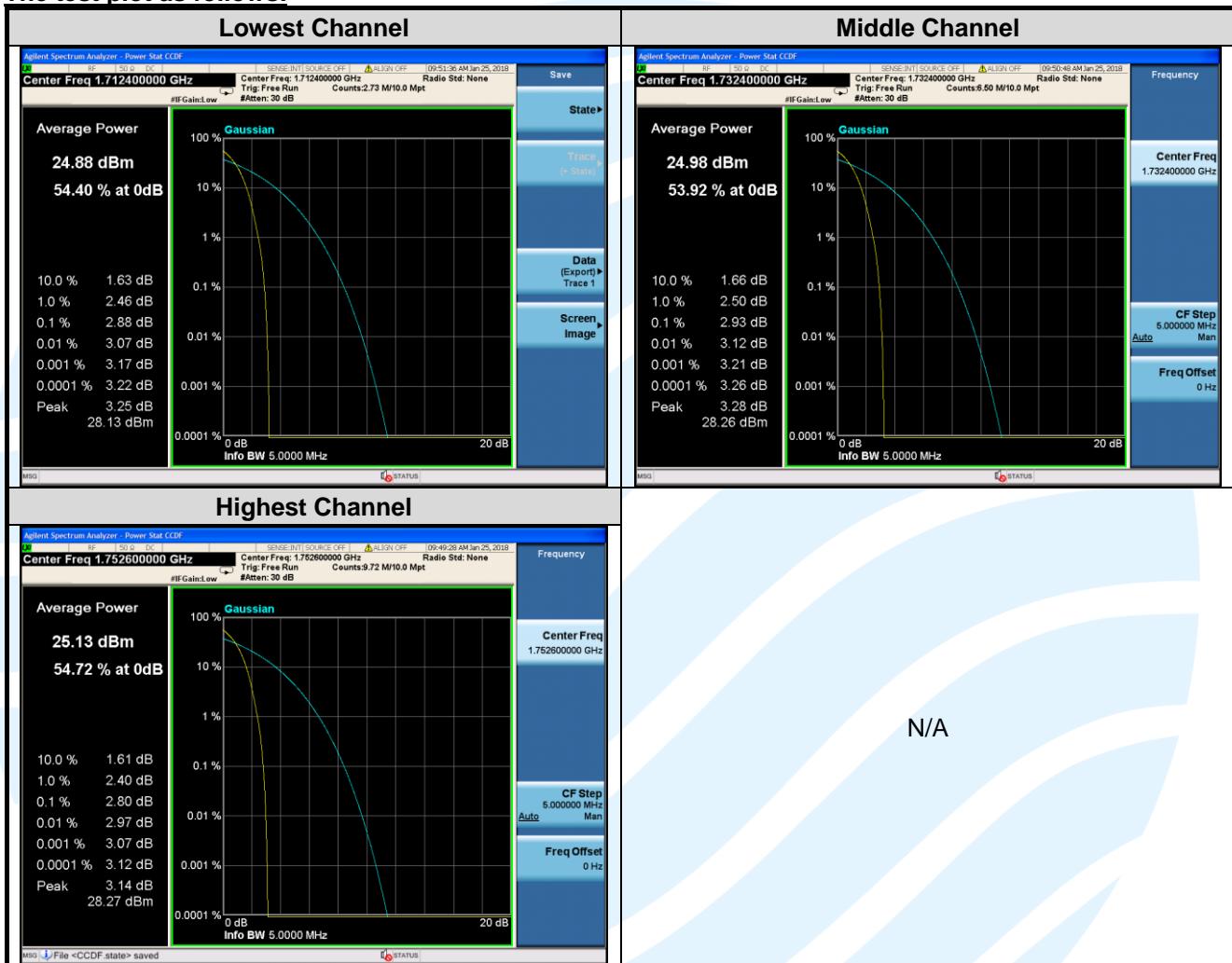
Test Results: Pass

Test Data: See table below

5.4.1 WCDMA Band IV

Peak-to-average ratio (dB)			
Channel	RMC 12.2Kbps	Limit (dB)	Result
Lowest	2.88	13	Pass
Middle	2.93	13	Pass
Highest	2.80	13	Pass

The test plot as follows:

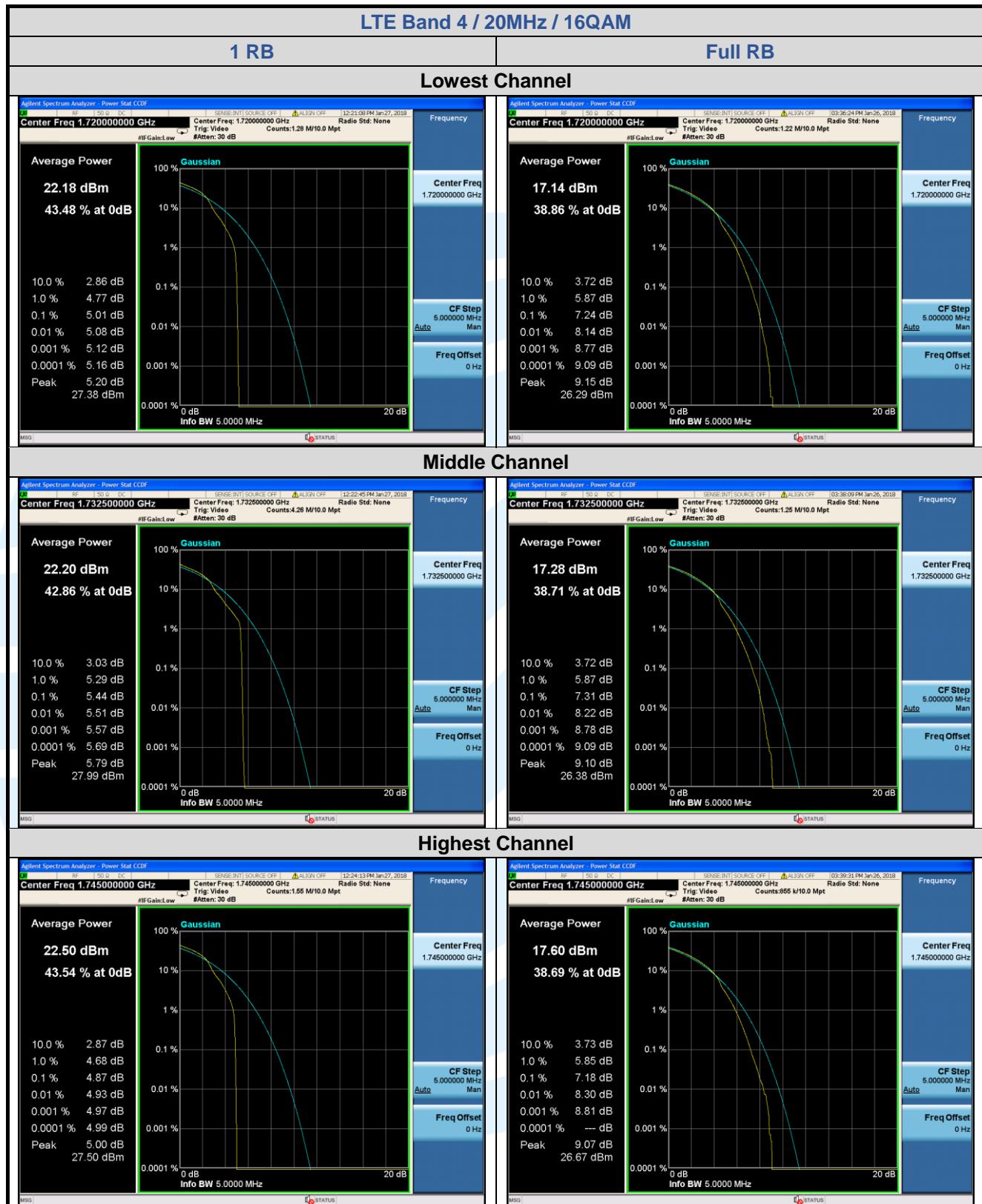


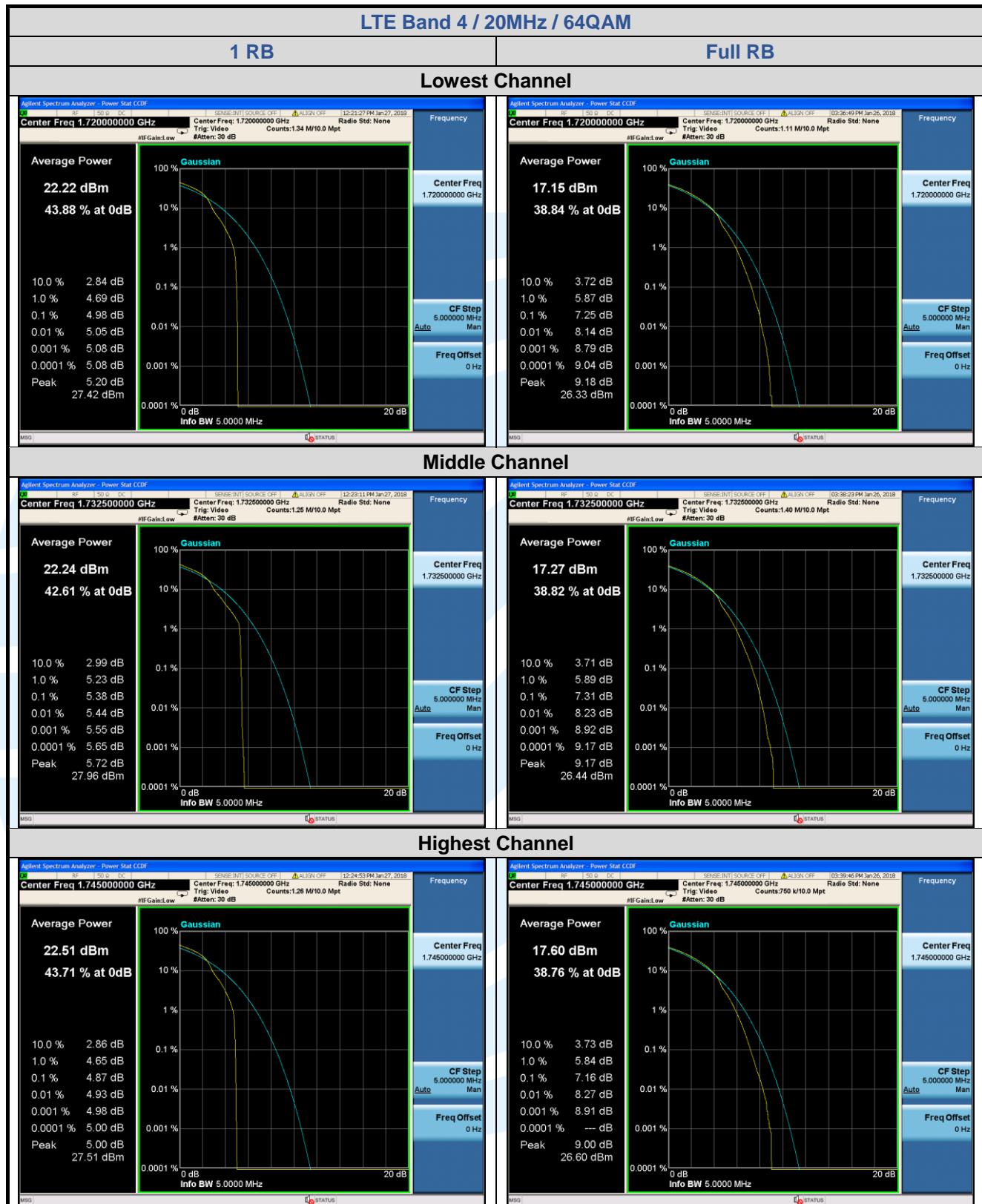
5.4.2 LTE Band 4

Channel	RB Configuration	Peak-to-average ratio (dB)			Limit (dB)	Result		
		Channel Bandwidth: 20 MHz						
		QPSK	16QAM	64QAM				
Lowest	1 RB	3.47	5.01	4.98	13	Pass		
	Full RB	6.51	7.24	7.25	13	Pass		
Middle	1 RB	3.59	5.44	5.38	13	Pass		
	Full RB	6.49	7.31	7.31	13	Pass		
Highest	1 RB	3.40	4.87	4.87	13	Pass		
	Full RB	6.44	7.18	7.16	13	Pass		







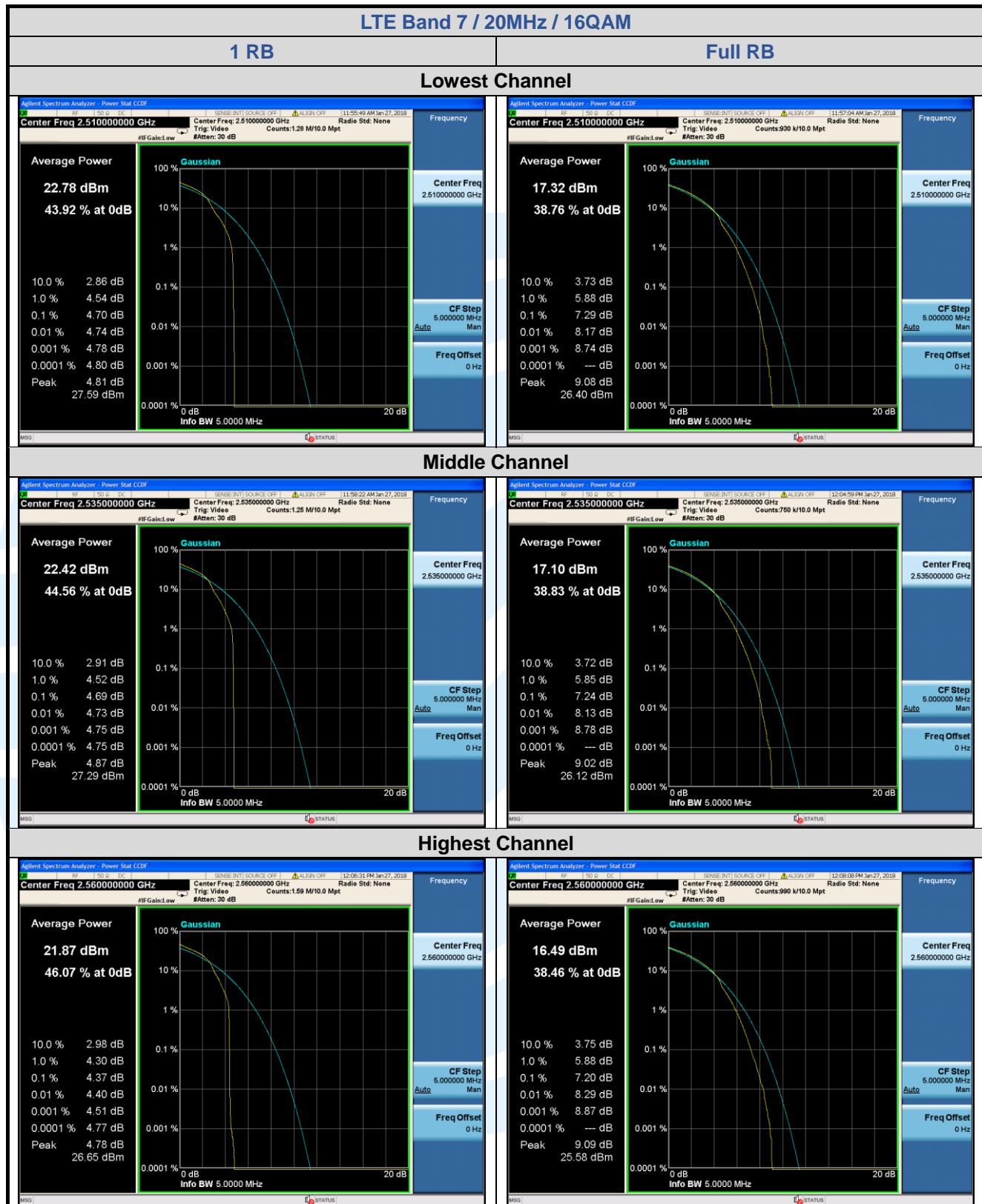


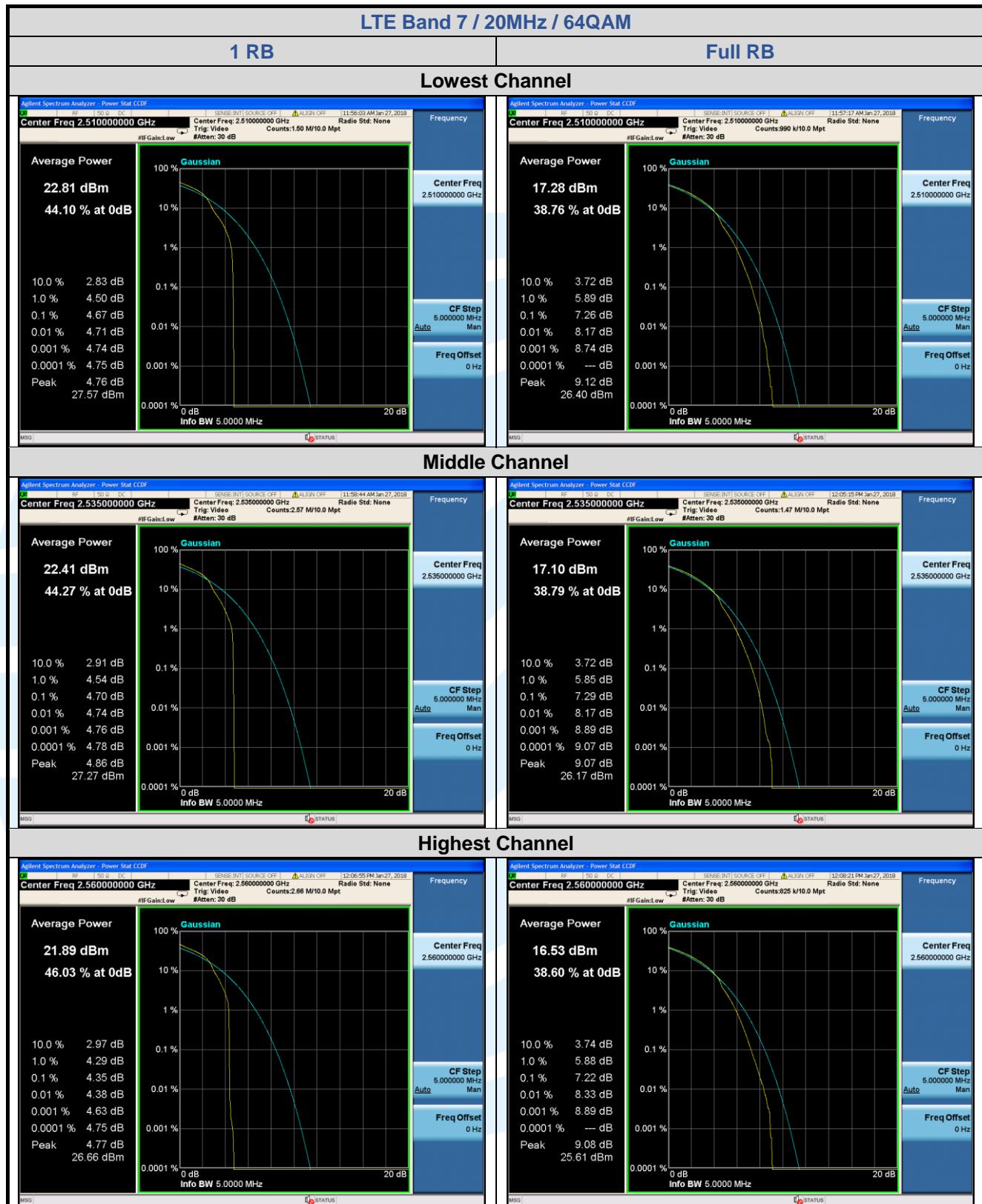
5.4.3 LTE Band 7

Channel	RB Configuration	Peak-to-average ratio (dB)			Limit (dB)	Result		
		Channel Bandwidth: 20 MHz						
		QPSK	16QAM	64QAM				
Lowest	1 RB	3.41	4.70	4.67	13	Pass		
	Full RB	6.53	7.29	7.26	13	Pass		
Middle	1 RB	3.22	4.69	4.70	13	Pass		
	Full RB	6.47	7.24	7.29	13	Pass		
Highest	1 RB	2.91	4.37	4.35	13	Pass		
	Full RB	6.51	7.20	7.22	13	Pass		









5.4.4 LTE Band 38

Channel	RB Configuration	Peak-to-average ratio (dB)			Limit (dB)	Result		
		Channel Bandwidth: 20 MHz						
		QPSK	16QAM	64QAM				
Lowest	1 RB	4.48	6.69	6.29	13	Pass		
	Full RB	6.22	7.14	7.39	13	Pass		
Middle	1 RB	4.00	5.66	5.51	13	Pass		
	Full RB	6.52	7.44	7.32	13	Pass		
Highest	1 RB	3.99	5.41	5.24	13	Pass		
	Full RB	6.55	7.27	7.39	13	Pass		

