



F	CC REPORT
Report Reference No:	TRE1703015502 R/C72286
FCC ID:	ZSW-30-038
Applicant's name:	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.
Test item description:	Mobile Phone
Trade Mark	Bmobile
Model/Type reference:	AX1010
Listed Model(s)	
Standard:	FCC Part 22: PUBLIC MOBILE SERVICES FCC Part 24:PERSONAL COMMUNICATIONS SERVICES
	FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES
Date of receipt of test sample:	Mar. 16, 2017
Date of testing	Mar. 16, 2017- Mar. 30, 2017
Date of issue	Mar. 30, 2017
Result:	Pass
Compiled by	Beepy Ling
(position+printedname+signature):	File administrators Becky Liang
Supervised by	$\int - C$
(position+printedname+signature):	Project Engineer Lion Cai
Approved by	11
(position+printedname+signature):	Manager Hans Hu
Testing Laboratory Name: :	Shenzhen Huatongwei International Inspection Co., Ltd.
Address:	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China
Shenzhen Huatongwei International	Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Applicable Standards	3
1.2.	Report version	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT operation mode	8
3.5.	EUT configuration	9
3.6.	Modifications	9
<u>4.</u>	TEST ENVIRONMENT	10
4.1.	Address of the test laboratory	10
4.2.	Test Facility	10
4.3.	Equipments Used during the Test	11
4.4.	Environmental conditions	12
4.5.	Statement of the measurement uncertainty	12
<u>5.</u>	TEST CONDITIONS AND RESULTS	13
5.1.	Conducted Output Power	13
5.2.	99% & -26 dB Occupied Bandwidth	14
5.3.	Conducted Spurious Emissions	57
5.4.	Band Edge	98
5.5.	ERP AND EIRP	179
5.6.	Radiated Spurious Emssion	186
5.7.	Frequency stability V.S. Temperature measurement	198
5.8.	Frequency stability V.S. Voltagemeasurement	201
5.9.	Peak-Average Ratio	203
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	205
<u>7.</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	205

1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24: PUBLIC MOBILE SERVICES

FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

TIA/EIA 603 D June 2010: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

<u>971168 D01 Power Meas License Digital Systems v02r02</u>: provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

1.2. Report version

Version No.	Date of issue	Description
00	Mar. 30, 2017	Original

2. Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass
ERP and EIRP	Part 22.913(a) Part 24.232(b)	Pass
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 22.255 Part 24.235 Part 27.54	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 22.255 Part 24.235 Part 27.54	Pass
Peak-Average Ratio	Part 24.232 Part 27.50	Pass

Note: The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung; New Territories; Hong Kong.

3.2. Product Description

Name of EUT:	Mobile Phone								
Trade Mark:	Bmobile								
Model No.:	AX1010								
Listed Model(s):	-								
IMEI:	35639070184220								
Power supply:	DC 3.7V From internal battery								
Adapter information:	Input:100-240Va.c., 50-60Hz, 0.15A								
	Output: 5Vd.c.,500mA								
Hardware version:	V01								
Software version:	3.18.19								
RF Technical Description									
⊠FDD Band 2									
Operation Frequency:	Uplink:1850.7 MHz – 1909.3 MHz								
	Downlink: 1930.7 MHz – 1989.3 MHz								
Channel bandwidth:	\square 1.4MHz \square 3MHz \square 5MHz \square 10MHz \square 15MHz								
⊠FDD Band 4									
Operation Frequency:	Uplink:1710.7 MHz – 1754.3 MHz								
	Downlink: 2110.7 MHz – 2154.3 MHz								
Channel bandwidth:	🛛 🖂 1.4MHz 🖾 3MHz 🖾 5MHz 🖾 10MHz 🖾 15MHz 🖾 20MHz								
⊠FDD Band 5									
Operation Frequency:	Uplink:824.7 MHz – 848.3 MHz Downlink: 869.7 MHz – 893.3 MHz								
Channel bandwidth:	☐ 1.4MHz								
FDD Band 7									
Operation Frequency:	Uplink:2502.5 MHz – 2567.5 MHz Downlink: 2622.5 MHz – 2687.5 MHz								
Channel bandwidth:	□1.4MHz □ 3MHz ⊠ 5MHz ⊠ 10MHz □15MHz □20MHz								
Power Class:	□ Class 1 □ Class 2 ⊠ Class 3 □ Class 4								
Modulation type:	QPSK I6QAM 64QAM								
Antennna type:	IntegralAntennna								
Antenna gain:	Band 2: -0.5 dBi, Band 4: -0.6 dBi, Band 5: -0.6 dBi, Band 7: -0.4 dBi								

3.3. Operation state

Test frequency list

FDD Band 2

Test F	requency ID	Bandwidth [MHz]	Nul	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
		1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
1.000	Danas	5	18625	1852.5	625	1932.5
LOW	Range	10	18650	1855	650	1935
		15 ^[1]	18675	1857.5	675	1937.5
		20 [1]	18700	1860	700	1940
Mid	Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
		1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
115-16	D	5	19175	1907.5	1175	1987.5
High	Range	10	19150	1905	1150	1985
		15 ^{rrj}	19125	1902.5	1125	1982.5
		20 [1]	19100	1900	1100	1980
NOTE 1		for which a relaxat 7] Clause 7.3) is al		cified UE receiver s	sensitivity re	quirement (TS
Test Fr	equency ID	Bandwidth [MHz]	Nul	Frequency of Uplink [MHz]	NDL	Frequency of Downlink

Test Frequency ID	[MHz]	NUL	Uplink [MHz]	NDL	Downlink [MHz]
	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
Low Dongo	5	19975	1712.5	1975	2112.5
Low Range	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
High Range	5	20375	1752.5	2375	2152.5
riigh Kange	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145

FDD Band 5

Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	1.4	20407	824.7	2407	869.7
Law Dansa	3	20415	825.5	2415	870.5
Low Range	5	20425	826.5	2425	871.5
	10 ^[1]	20450	829	2450	874
Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5
	1.4	20643	848.3	2643	893.3
Likela Denna	3	20635	847.5	2635	892.5
High Range	5	20625	846.5	2625	891.5
	10 ^[1]	20600	844	2600	889

Report No.: TRE1703015502

Page: 7 of 205

Test Frequency ID) Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	5	20775	2502.5	2775	2622.5
Low Dongo	10	20800	2505	2800	2625
Low Range	15	20825	2507.5	2825	2627.5
	20 [1]	20850	2510	2850	2630
Mid Range	5/10/15 20 ^[1]	21100	2535	3100	2655
	5	21425	2567.5	3425	2687.5
High Dange	10	21400	2565	3400	2685
High Range	15	21375	2562.5	3375	2682.5
	20 ^[1]	21350	2560	3350	2680

Page: 8 of 205

3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. The Applicant providessoftware to control the EUT for staying in continoustransmitting and receiving mode for testing.

				Bandw	/idth (M	Hz)		Mod	ulation		RB #		Test	Test Channel	
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	н
	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Max	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
OutputPower	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	2	v	v	v	v	v	v	v	v			v	v	v	v
26dB and 99%	4	v	v	v	v	v	v	v	v			v	v	v	v
Bandwidth	5	v	v	v	v	-	-	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v			v	v	v	v
	2	v	v	v	v	v	v	v	v	v		v	v		v
Conducted	4	v	v	v	v	v	v	v	v	v		v	v		v
Band Edge	5	v	v	v	v	-	-	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v		v	v		v
	2	v	>	v	>	v	v	v	v	v			v	v	v
Conducted	4	v	v	v	v	v	v	v	v	v			v	v	v
Spurious Emission	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	2	v	v	v	v	v	v	v	v	v			v	v	v
E.R.P./	4	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	5	v	v	v	v	-	-	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	2	v	v	v	v	v	v	v		v			v	v	v
Radiated Spurious	4	v	v	v	v	v	v	v		v			v	v	v
Emission	5	v	>	v	>	-	-	v		v			v	v	v
	7	-	-	v	v	v	v	v		v			v	v	v
	2						v	v	v			v		v	
Frequency	4						v	v	v			v		v	
Stability	5				v			v	v			v		v	
	7						v	v	v			v		v	
	2						v	v	v	v		v	v	v	v
Peak-to-	4						v	v	v	v		v	v	v	v
AverageRatio	5				v			v	v	v		v	v	v	v
	7						v	v	v	v		v	v	v	v
Remark	2. Th 3. Th d	e mark " e device	'-"means e is inves	s that this stigatedfi	s bandw rom 30N	idth is n 1Hz to10	ot suppo times o	ffundame	ng ntal signal f Subsequer	for radia htly, only	ited spur	ious emi st case e	ssion te emissior	st und is are	er

3.5. EUT configuration

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

- supplied by the manufacturer
- \bigcirc supplied by the lab

	Length (m) :	/
	Shield :	/
	Detachable :	/
	Manufacturer :	/
	Model No. :	/

3.6. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory 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. Valid time is until March 31, 2017.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377B

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec. 03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

	Power(Conducted) &Occup ance&Conducted Spurious		ssionBandwidth&	Band Edge	
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	2016/11/13
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
4	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13

Frequei	ncy Stability				
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	2016/11/13
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
4	Climate Chamber	ESPEC	EL-10KA	05107008	2016/11/13
5	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13

Output	Power (Radiated) & Radiated	Spurious Emission			
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
4	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2016/11/13
7	TURNTABLE	MATURO	TT2.0		2016/11/13
8	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
9	EMI Test Software	Audix	E3	N/A	N/A
10	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	2016/11/13
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2016/11/13
12	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
13	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2016/11/13
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2016/11/13
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2016/11/13
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	2016/11/13
19	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
20	TURNTABLE	ETS	2088	2149	2016/11/13
21	ANTENNA MAST	ETS	2075	2346	2016/11/13
22	HORNANTENNA	Rohde&Schwarz	HF906	100068	2016/11/13
23	HORNANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13
24	WIDEB.RADIO COMM.TESRER	R&S	CMW500	1201.0002K50	2016/11/13

The calibration interval was one year.

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature/Tnor:	15~35°C
lative Humidity	30~60 %
Air Pressure	950-1050 hPa

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	MeasurementUncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

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

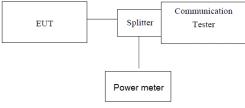
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

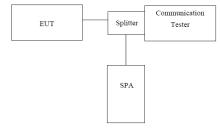
☑ Passed □ Not Applicable

EUT Mode	Frequency (MHz)	Max Avg.Power QPSK (dBm)	Max Avg.Power 16QAM (dBm)
LTE Band 2	1850.7-1909.3	22.41	21.38
LTE Band 4	1710.7 – 1754.3	22.61	21.39
LTE Band 5	824.7 – 848.3	22.24	21.96
LTE Band 7	2502.5 – 2567.5	22.55	21.39

5.2. 99% & -26 dB Occupied Bandwidth

N/A

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBWwas set to about 1% of emission BW, VBW= 3 times RBW.
- 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

		LTE Band 2				
		99% Occupy ba	ndwidth (MHz)	-26dB bandwidth (MHz)		
Bandwidth	Channel	QPSK	16QAM	QPSK	16QAM	
	Low	1.10	1.10	1.27	1.27	
1.4MHz	Mid	1.10	1.10	1.28	1.29	
	High	1.10	1.09	1.29	1.27	
	Low	2.69	2.69	2.90	2.95	
3MHz	Mid	2.69	2.68	2.93	2.92	
	High	2.68	2.68	2.94	2.92	
	Low	4.51	4.51	5.10	5.04	
5MHz	Mid	4.53	4.54	5.08	5.05	
	High	4.51	4.53	5.08	5.10	
	Low	8.93	8.95	9.70	9.68	
10MHz	Mid	8.95	8.93	9.77	9.74	
	High	8.93	8.93	9.67	9.73	
	Low	13.49	13.52	15.02	14.93	
15MHz	Mid	13.52	13.52	15.00	14.90	
	High	13.52	13.49	14.97	14.87	
	Low	17.94	17.94	19.45	19.48	
20MHz	Mid	17.90	17.90	19.41	19.51	
	High	17.98	17.90	19.69	19.45	

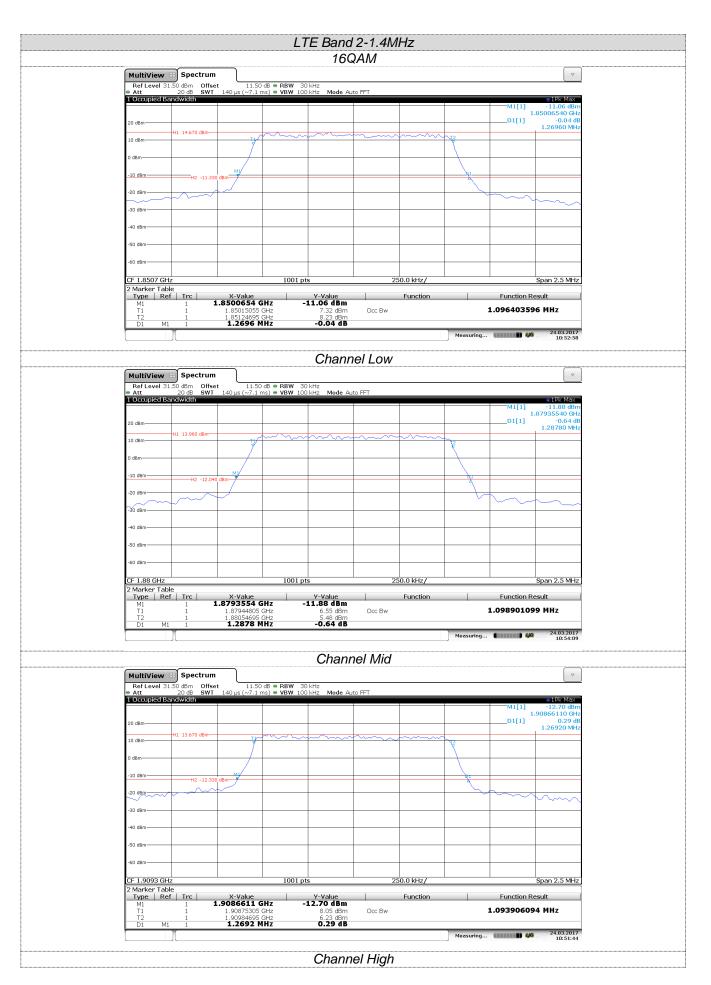
Report Template Version: H00 (2016-08)

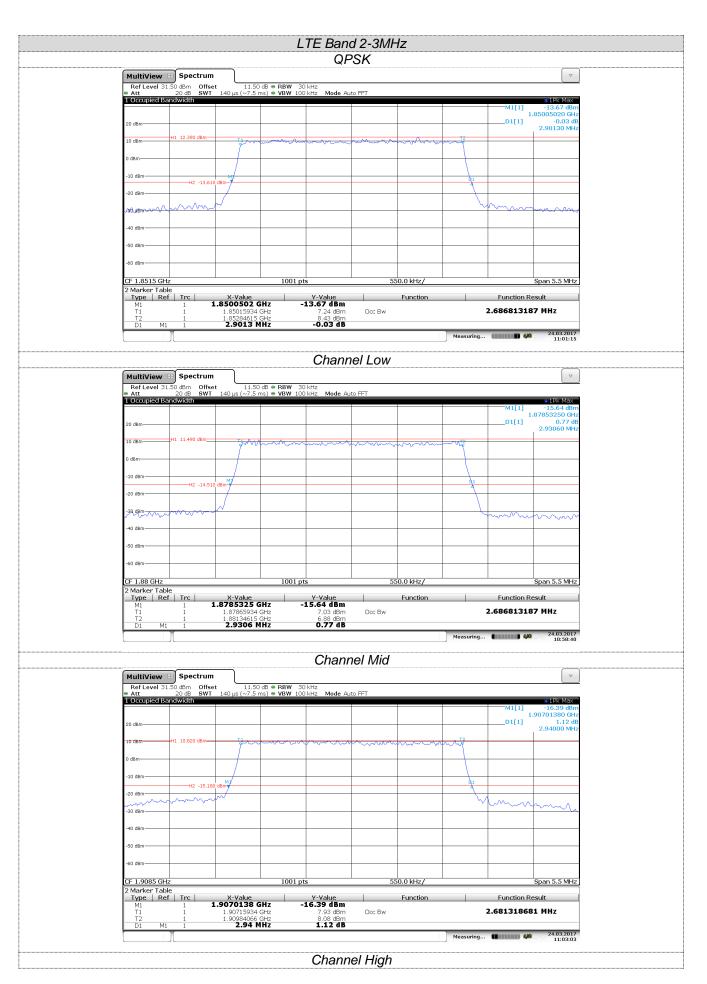
		LTE Band 4				
Bandwidth	Channel	99% Occupy ba	ndwidth (MHz)	-26dB bandwidth (MHz)		
Danuwiuth	Channel	QPSK	16QAM	QPSK	16QAM	
	Low	1.10	1.09	1.28	1.27	
1.4MHz	Mid	1.10	1.09	1.28	1.27	
	High	1.10	1.10	1.28	1.29	
	Low	2.69	2.68	2.92	2.92	
3MHz	Mid	2.69	2.68	2.93	2.93	
	High	2.69	2.68	2.92	2.91	
	Low	4.51	4.53	5.07	5.09	
5MHz	Mid	4.52	4.52	5.09	5.07	
	High	4.53	4.54	5.10	5.11	
	Low	8.97	8.95	9.86	9.75	
10MHz	Mid	8.93	8.95	9.78	9.65	
	High	8.95	8.95	9.81	9.78	
	Low	13.52	13.49	15.00	14.93	
15MHz	Mid	13.43	13.52	14.87	14.87	
	High	13.49	13.52	15.08	14.98	
	Low	17.90	17.94	19.38	19.67	
20MHz	Mid	17.94	17.94	19.43	19.45	
	High	17.98	17.94	19.73	19.48	

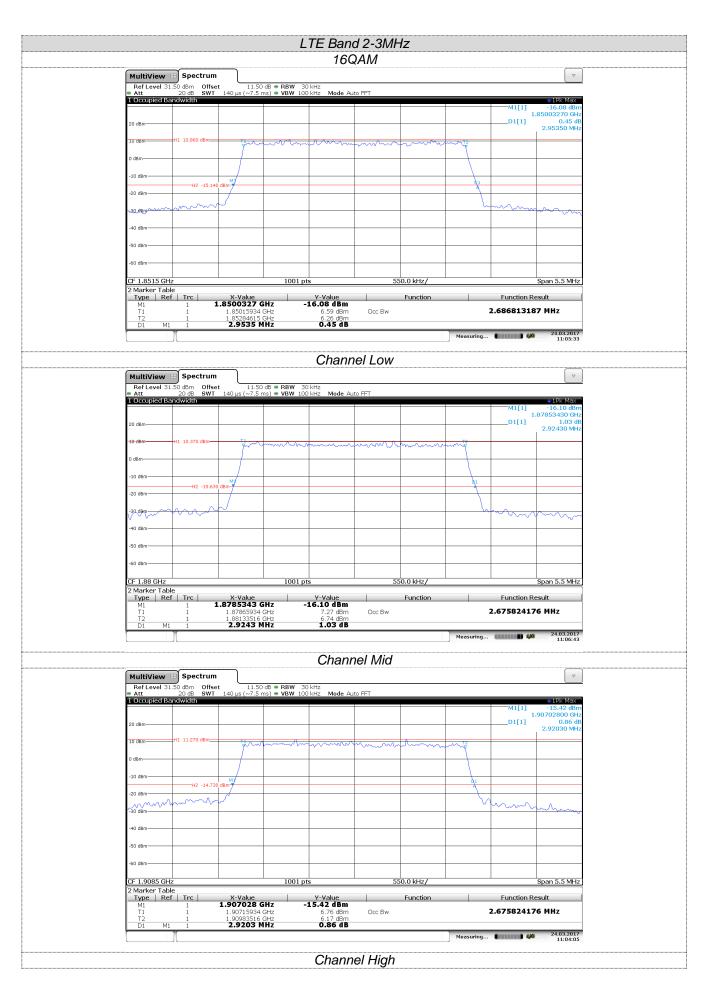
		LTE Band 5				
Bandwidth	Channel	99% Occupy ba	ndwidth (MHz)	-26dB bandwidth (MHz)		
Bandwidth	Channel	QPSK	16QAM	QPSK	16QAM	
	Low	1.10	1.09	1.27	1.26	
1.4MHz	Mid	1.09	1.10	1.27	1.28	
	High	1.10	1.10	1.27	1.28	
	Low	2.69	2.68	2.90	2.91	
3MHz	Mid	2.69	2.68	2.93	2.95	
	High	2.69	2.68	2.94	2.94	
	Low	4.50	4.52	5.08	5.07	
5MHz	Mid	4.52	4.51	5.07	5.06	
	High	4.53	4.54	5.07	5.09	
	Low	8.95	8.95	9.76	9.78	
10MHz	Mid	8.95	8.95	9.74	9.63	
	High	8.91	8.93	9.70	9.74	

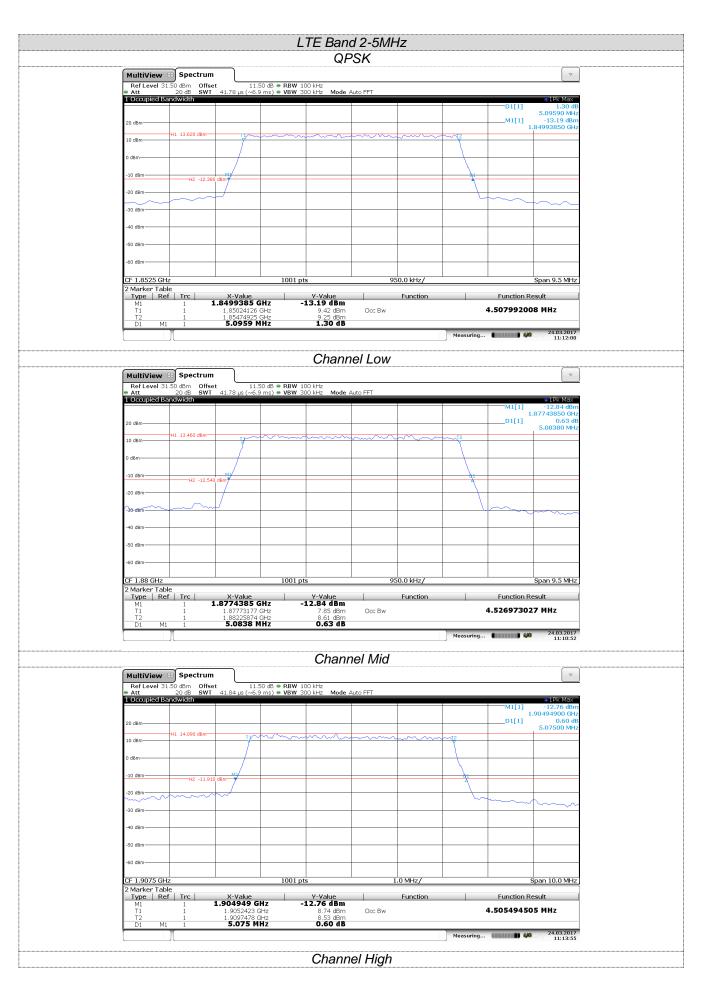
		LTE Band 7				
Bandwidth	Channel	99% Occupy ba	ndwidth (MHz)	-26dB bandwidth (MHz)		
Danowidin	Channel	QPSK	16QAM	QPSK	16QAM	
	Low	4.53	4.54	5.09	5.09	
5MHz	Mid	4.54	4.52	5.07	5.08	
	High	4.51	4.54	5.09	5.10	
	Low	8.93	8.95	9.76	9.81	
10MHz	Mid	8.97	8.97	9.88	9.80	
	High	8.95	8.95	9.71	9.77	
	Low	13.55	13.52	15.00	14.95	
15MHz	Mid	13.49	13.49	15.01	14.99	
	High	13.46	13.52	14.88	14.90	
	Low	17.98	18.02	19.77	19.64	
20MHz	Mid	17.98	17.94	20.07	19.54	
	High	17.90	17.94	19.42	19.56	

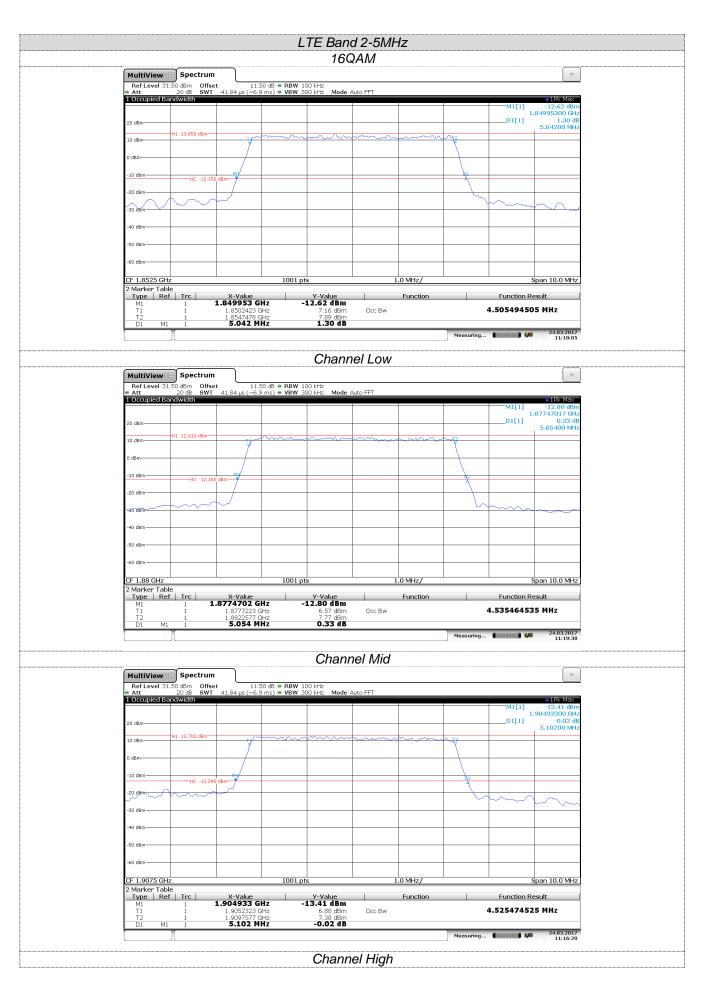
			L7	E Band	2-1.4M	Hz			
					'SK				
MultiView	🗄 Spectrum	ı]							
Att		et 11.50 140 µs (~7.1 n	dB • RBW 30 ns) • VBW 100) kHz) kHz Mode Au	to FFT				
1 Occupied B	andwidth							M1[1]	● 1Pk Max -10.37 dBm 1.85006540 GHz
20 dBm								D1[1]	-0.08 dB 1.27170 MHz
10 dBm	H1 15.100 dBm	T1~	~~~~		~~~~~		- Pa		
0 dBm									
-10.dBm		MI					R1		
-20 dBm	H2 -10.90								
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
CF 1.8507 GF 2 Marker Tab	ole		1001 pt		25	0.0 kHz/			Span 2.5 MHz
Type Re M1	ef Trc 1	X-Value 1.8500654 G	Hz -	Y-Value 10.37 dBm		Function		Function F	
T1 T2 D1 M	1 1 1 1	1.85015055 (1.85124695 (1.2717 M	GHz	9.33 dBm 7.23 dBm -0.08 dB	Occ Bw			1.0964035	96 MHZ
			_				Measuring		24.03.2017 10:46:57
				Chann	el Low				
MultiView	🗄 Spectrum			Ghann	ei Low				▼
		L L	dB • RBW 30) kHz					
1 Occupied B		140 ps (**7.1 h	13) • • • • • • • • • •	NINZ MODE AG				M1[1]	●1Pk Max -11.64 dBm
20 dBm								D1[1]	1.87935740 GHz 0.00 dB
10 dBm	H1 14.520 dBm	τγ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				12		1.27700 MHz
0 dBm									
-10 dBm		м							
-20 dBm	H2 -11.48	0 dBm					Ž		
-20 dBm		\checkmark						h	
-40 dBm									
-50 dBm									
-60 dBm									
CF 1.88 GHz 2 Marker Tab	ble	-	1001 pt	s	25	0.0 kHz/			Span 2.5 MHz
Type Re M1	1	X-Value 1.8793574 G		Y-Value 11.64 dBm		Function		Function F	
T1 T2 D1 M	1 1 1 1	1.87944805 (1.88055195 (1.277 M	GHz	8.29 dBm 8.41 dBm -0.00 dB	Occ Bw			1.1038981	04 MNZ
							Measuring	() Ø	24.03.2017 10:42:39
				Chanr	nel Mid				
									▼
MultiView		+ 11.50	dB = RBW 30 ns) = VBW 100) kHz) kHz Mode Au	to FET				
Ref Level 3 Att	1.50 dBm Offse 20 dB SWT	140 µs (~7.1 n							
Ref Level 3	1.50 dBm Offse 20 dB SWT andwidth	140 µs (~7.1 n						M1[1]	● 1Pk Max -11.33 dBm L90864810 GHz
Ref Level 3 Att	andwidth	140 µs (~7.1 n						M1[1]	
Ref Level 3 Att 1 Occupied B	1.50 dBm Offse 20 dB SWT andwidth H1 14.180 dBm	140 µs (~7.1 n	~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	¥2		-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 Att 1 Occupied B 20 dBm-	andwidth					~~~~~	712		-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 Att 1 Occupied B 20 dBm	H1 14,180 dBm			~~~~~		~~~~~			-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 Att L Occupied B 20 dBm	andwidth						V ²		-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 Att 1 Occupied B 20 dBm 10 dBm 0 dBm -10 dBm	H1 14,180 dBm						44 44		-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 1 Occupied B 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	H1 14,180 dBm								-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 Att 1 Occupied B 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm -40 dBm	H1 14,180 dBm								-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 ▲ Att 1 Occcupied B 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm	H1 14,180 dBm								-11.33 dBm 1.90864810 GHz -0.39 dB
Ref Level 3 Att 1 Occupied B 20 d8m 10 d8m 0 d8m -10 d8m -30 d8m -40 d8m -50 d8m -60 d8m	H1 14.180 dBm- H2 -11.82								-11.33 dBr 1,09664B10 GHz -0.39 dB 1,29010 MHz
Ref Level 3 Att 1 Occupied B 20 dBm 20 dBm 0 dBm 0 dBm	andwidth H1 14.180 dBm H2 -11.82	M1 0 08m				0.0 kHz/			-11.33 dBm 1.09664810 GHz -0.39 dB 1.29010 MHz
Ref Level 3 Att 1 Occupied B 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 1.9093 GH 2 Marker Tat Type Ref	andwidth H1 14.180 dBm H2 -11.62 H2 -11.6	X-Value 1.9086481 G	Hz -	Y-Value 11.33 dBm	2:	0.0 kHz/ Function		01[1]	-11.33 dBm 1.09664810 GHz -0.39 dB 1.29010 MHz 1.29010 MHz Span 2.5 MHz cesult
Ref Level 3 Att 1 Occupied B 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm	andwidth H1 14.180 dBm H2 -11.82 H2 -11.8	0 dBm	Hz - SHz SHz	Y-Value					-11.33 dBm 1.90864810 GHz -0.39 dB 1.29010 MHz Span 2.5 MHz Span 2.5 MHz
Ref Level 3 Att 1 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -60 dBm -50 dBm -60 dBm -70 dBm -10 dBm -20 dBm -30 dBm -10 dBm -30 dBm -50 dBm -50 dBm -50 dBm -10 dBm -10 dBm	andwidth H1 14.180 dBm H2 -11.82 H2 -11.8	X-Value 1.9086481 C 1.9086481 C	Hz - SHz SHz	Y-Value 11.33 dBm 7.94 dBm 7.32 dBm	2:			01[1]	-11.33 dBm 1.09664810 GHz -0.39 dB 1.29010 MHz Span 2.5 MHz Span 2.5 MHz
Ref Level 3 Att Att I Occupied B 20 d8m	andwidth H1 14.180 dBm H2 -11.82 H2 -11.8	X-Value 1.9086481 C 1.9086481 C	Hz - SHz SHz	Y-Value 11.33 dBm 7.94 dBm 7.32 dBm -0.39 dB	2:			01[1]	-11.33 dBm 1.90864810 GHz -0.39 dB 1.29010 MHz Span 2.5 MHz Span 2.5 MHz

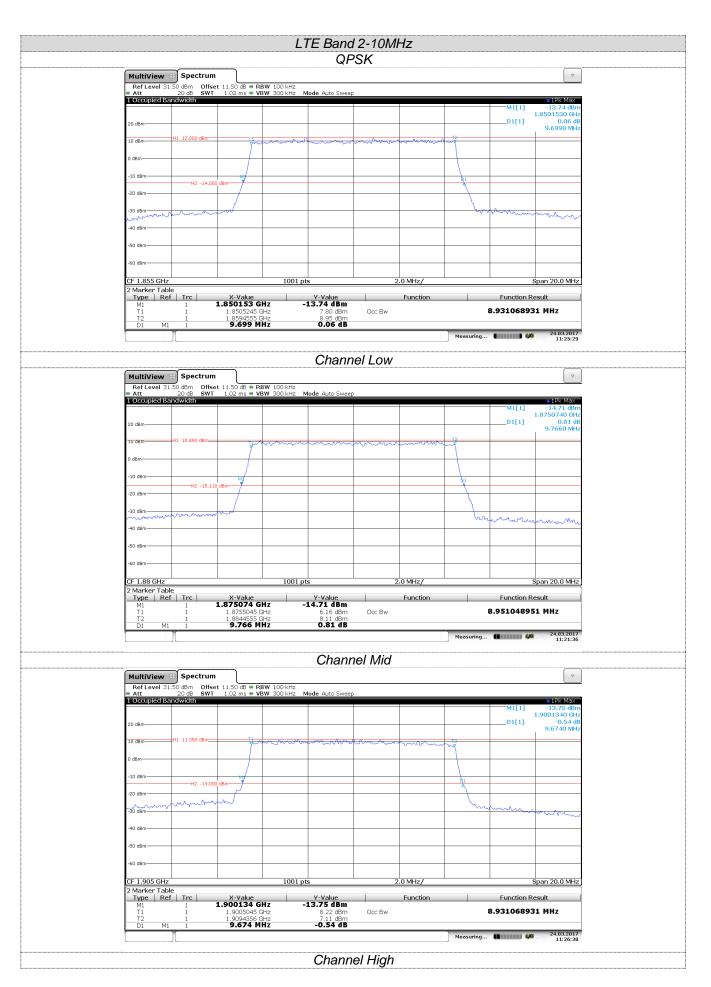


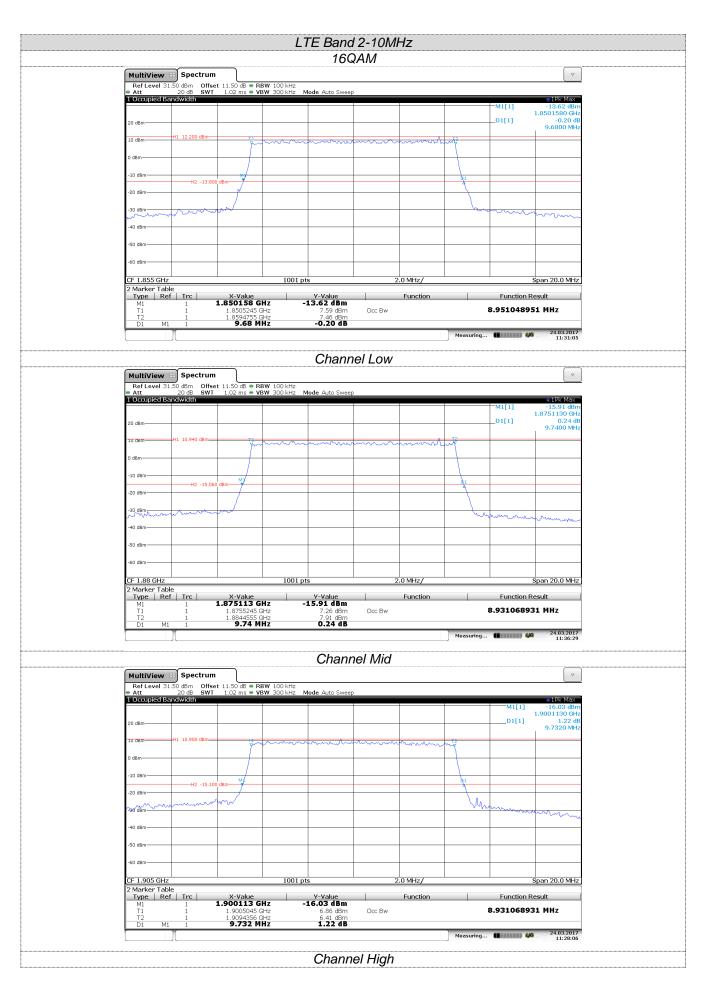


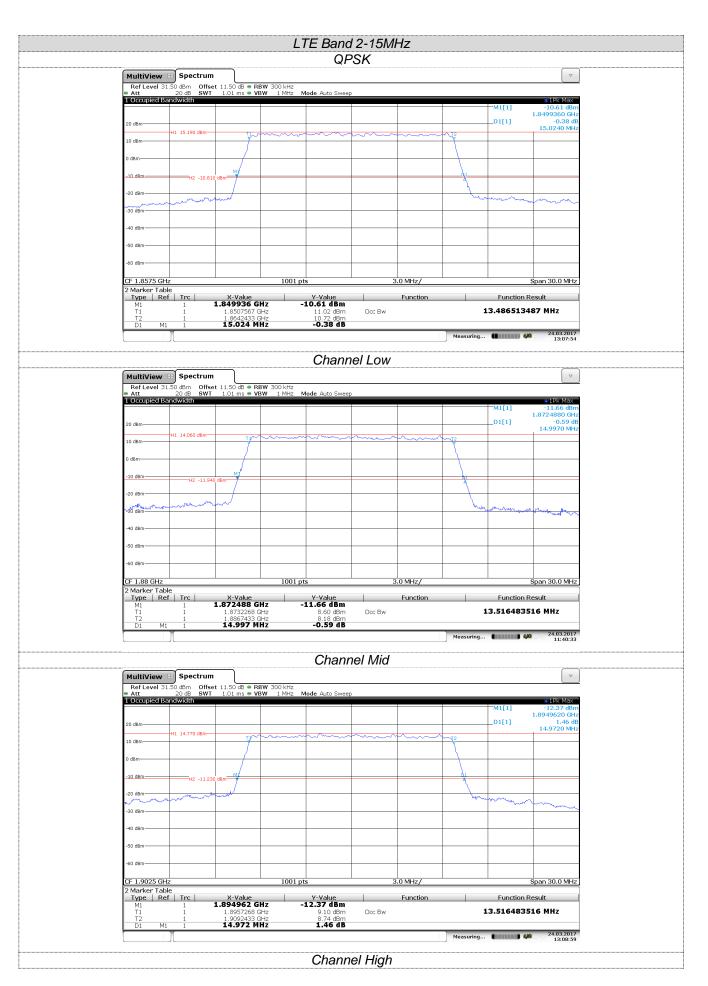


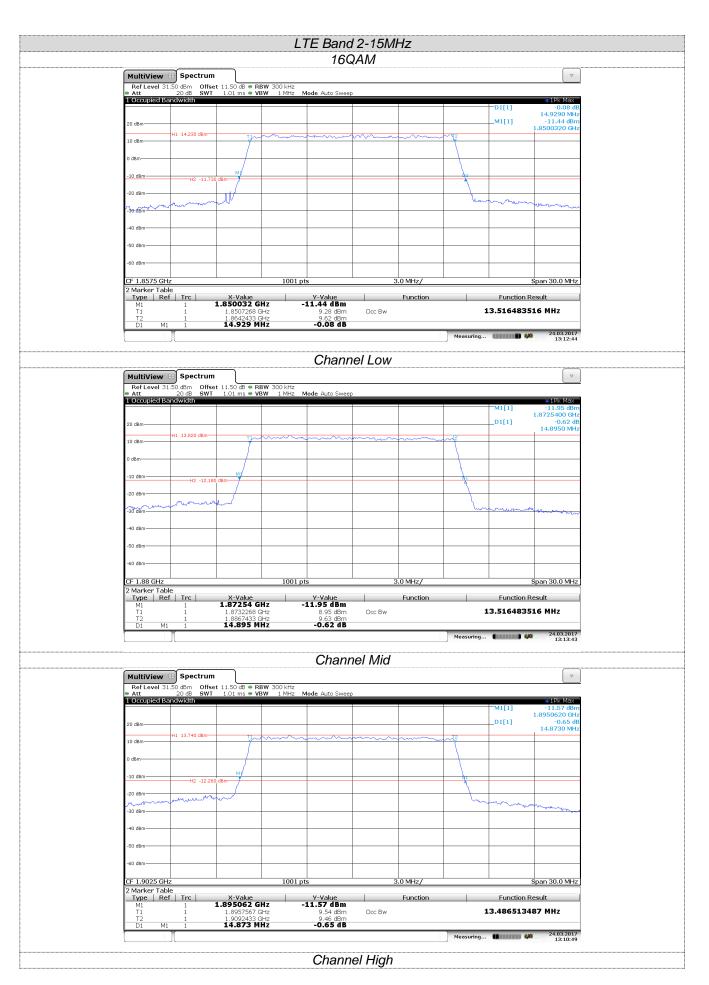


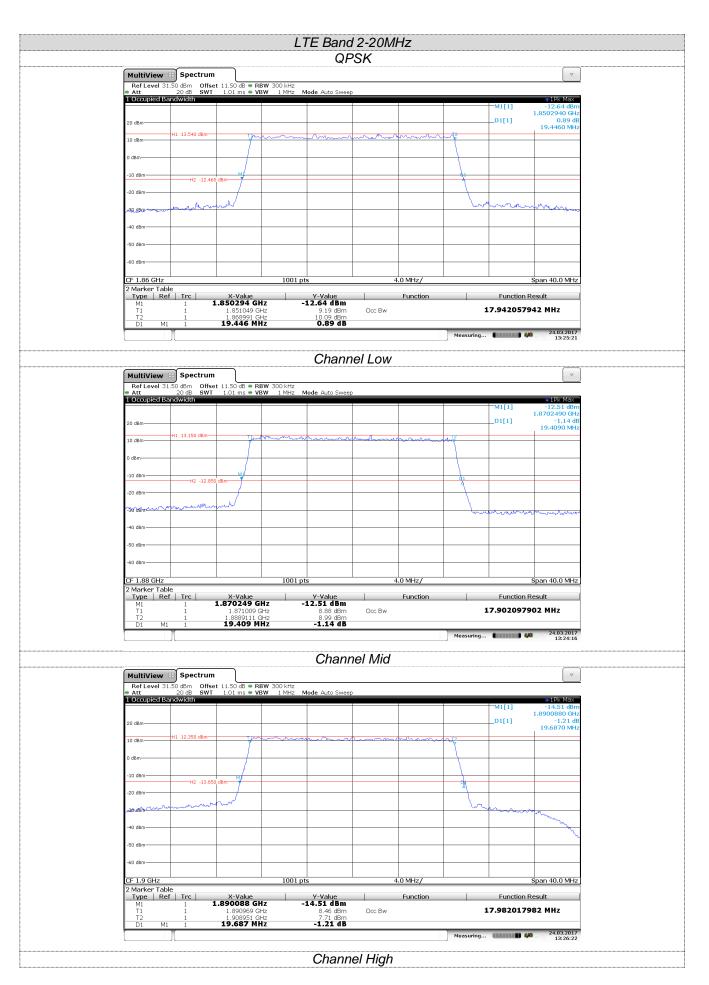


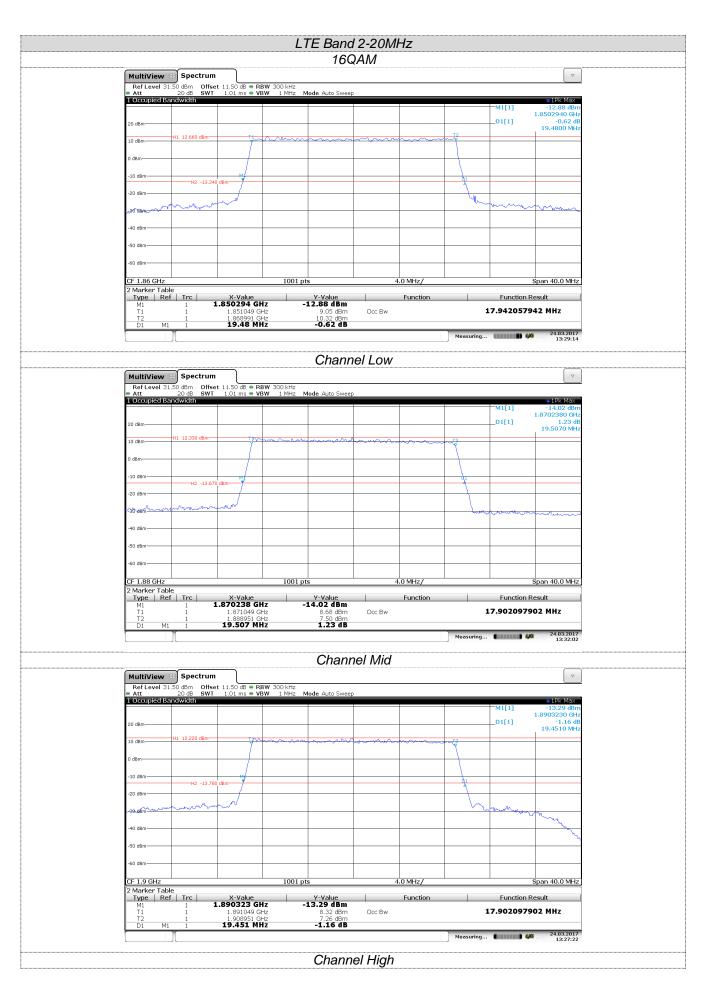




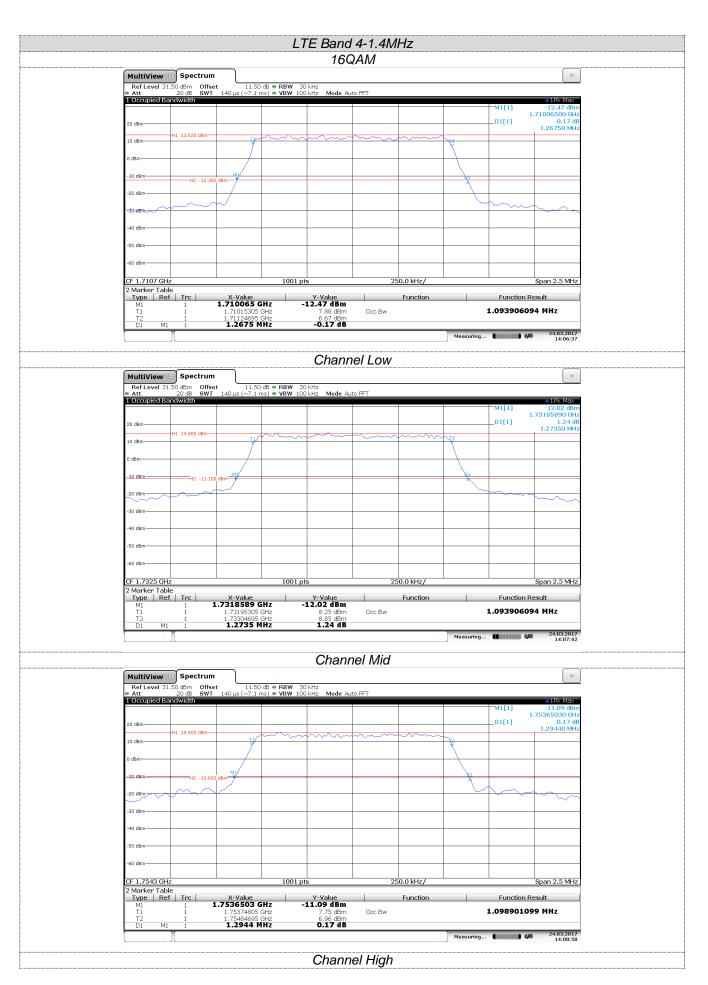


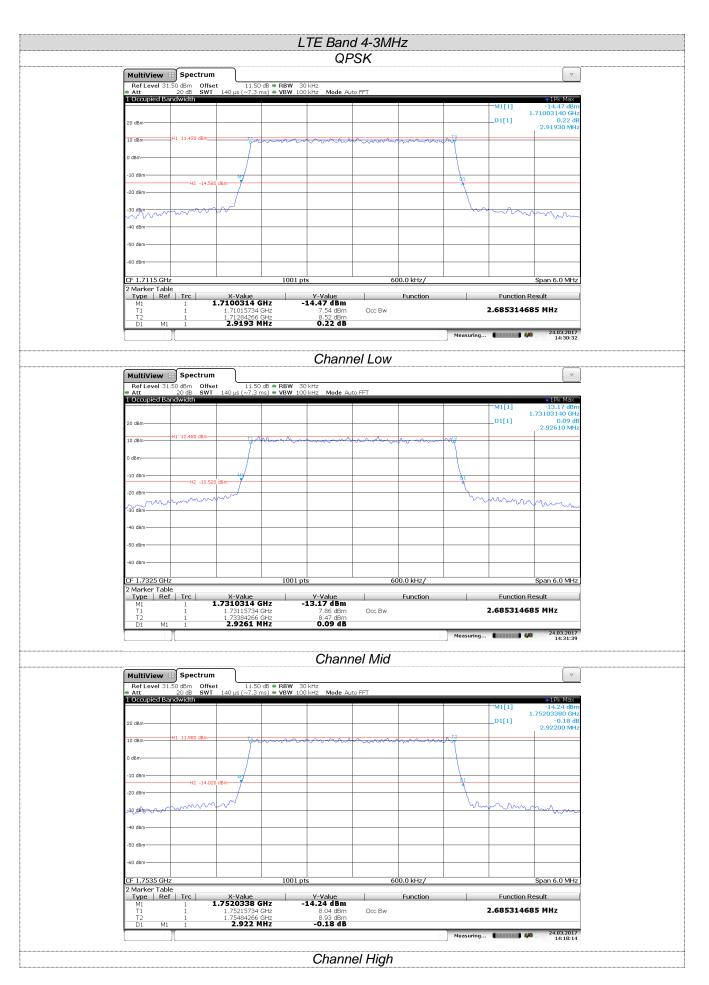


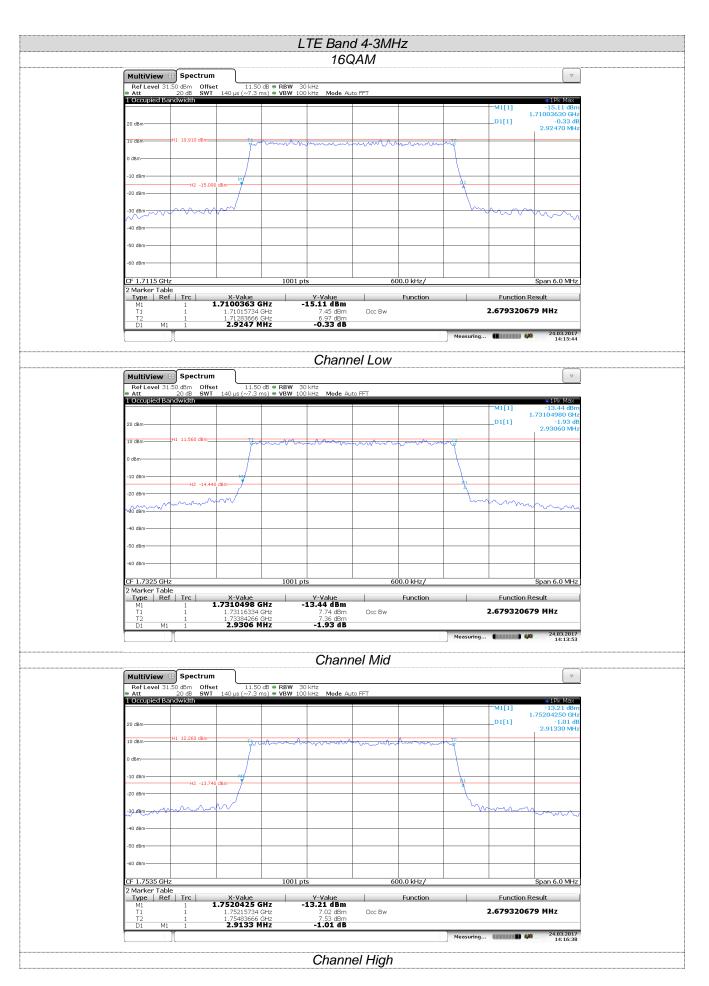


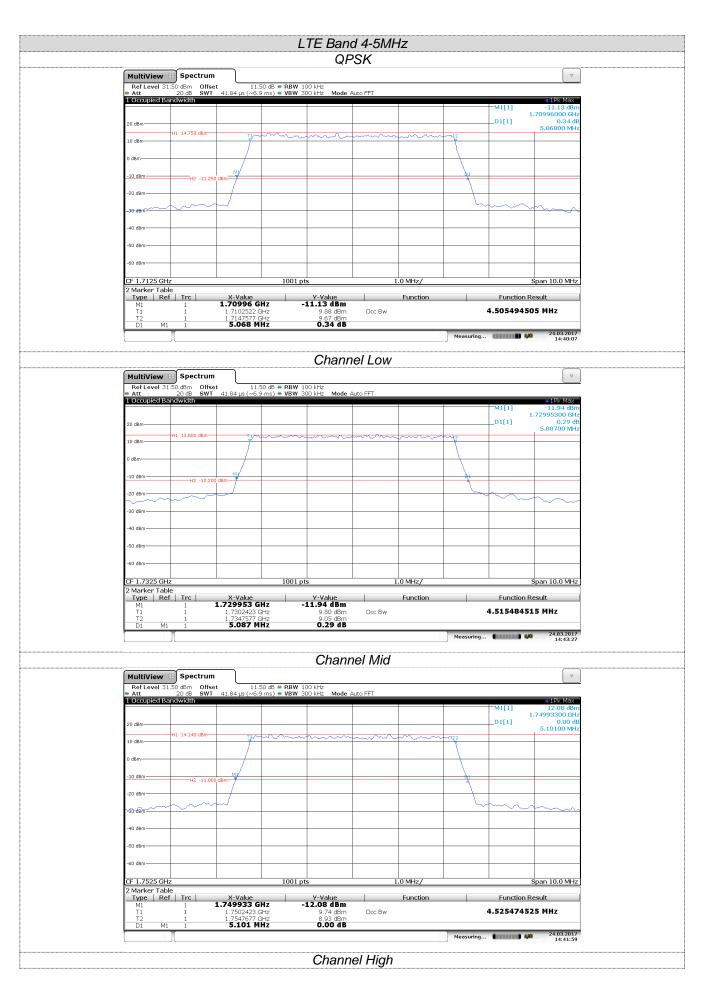


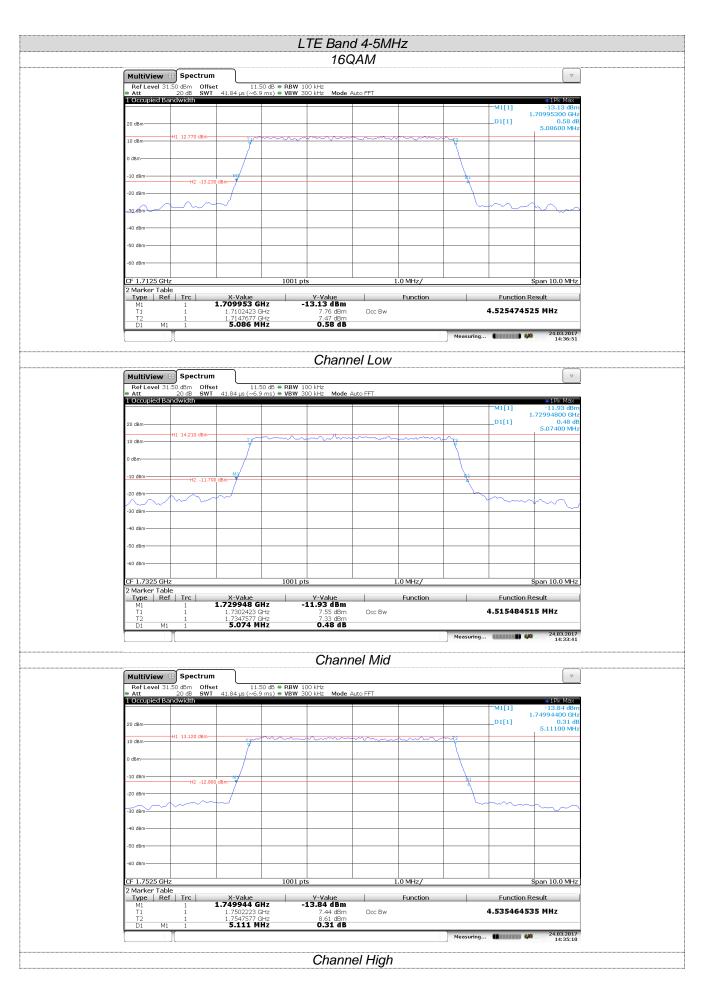
LIE Band 4.1.4MHz OPSK Image: Description of the set									
				QF	PSK				
									▼
Att	20 dB SWT	et 11.50 140 µs (~7.1 r	dB = RBW 30 ns) = VBW 100)kHz)kHz Mode Au	to FFT				
1 Occupied E	andwidth							м1[1]	-11.55 dBm
20 dBm									-0.32 dE
10 dBm	H1 14.290 dBm	T1/				~~~~	The second		120070101
0 dBm									
		MI							
-10 dBm	H2 -11.71	0 dBm					<u></u>		
-20 dBm									
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
CE 1 7107 G			1001 pt	te .	25	0.0 kHz/			Spap 2.5 MHz
2 Marker Tal	ble	V V-1	1001 pt						
M1	1	L.7100604 (11.55 dBm	Occ Bw	Function			
T2	1	1.71125195	GHz	7.44 dBm	000010				
][Measuring	40	24.03.2017 14:11:23
				Chonn					
(Chann	IEI LOW				
Ref Level 3	1.50 dBm Offse	at 11.50	dB • RBW 30) kHz					
Att 1 Occupied B	20 dB SWT	140 µs (~7.1 r	ns) = VBW 100)kHz Mode Au	to FFT				●1Pk Max
									-10.27 dBm 73185680 GHz 0.08 dE
20 dBm	H1 15.590 dBm	ту~	~~~~~					_D1[1]	1.27850 MHz
10 dBm		7					Ť		
0 dBm							+		
-10 dBm	H2 -10.41	0 dBm					1		
-20 dBm							<u> </u>	harmondown	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
CF 1.7325 G			1001 pt	ts	25	0.0 kHz/			Span 2.5 MHz
2 Markor Ta			1	Y-Value				Europhian D.	acult
2 Marker Tal Type Re		X-Value L.7318568 (iHz -	10.27 dBm		Function		Function Re	
Type R M1 T1 T2	1 1 1 1	1.7318568 C 1.73194805 1.73305195	GHz GHz	10.27 dBm 9.39 dBm 9.38 dBm	Occ Bw	Function		1.10389610	
Type R M1 T1	1 1 1 1	L.7318568 (GHz GHz	10.27 dBm 9.39 dBm	Occ Bw	Function		1.10389610	4 MHz 24.03.2017
Type R M1 T1 T2	1 1 1 1	1.7318568 C 1.73194805 1.73305195	GHz GHz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB		Function			4 MHz
Type R M1 T1 T2	1 1 1 1	1.7318568 C 1.73194805 1.73305195	GHz GHz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	Occ Bw	Function		1.10389610	4 MHz 24.03.2017
Type Rd M1 T2 D1 M	1 : 1 1 1 1	L.7318568 (1.73194805 1.7305195 1.2785 M	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz 24.03.2017
Type R M1 T1 T2 D1 M RefLevel 3 • Att	1 : 1 1 1 1 1 1 5 5 5 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	L.7318568 (1.73194805 1.7305195 1.2785 M	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz
Type Rd M1 T2 D1 M	1 : 1 1 1 1 1 1 5 5 5 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	L.7318568 (1.73194805 1.7305195 1.2785 M	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz 24.03.2017 14:12:26
Type R M1 T1 T2 D1 M RefLevel 3 • Att	1 1 1 1 1 1 5 Spectrum 1.50 dBm Offse 20 dB SWT and Width	L.7318568 (1.73194805 1.73305195 1.2785 μ 1.2785 μ 1.2785 μ 1.2785 μ 1.2785 μ	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz 24.03.2017 14:12:26 ⊽ • 1Pk Max -10.46 dBr
MultiView MultiView Ref Level 3 * Att	1 : 1 1 1 1 1 1 5 5 5 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	L.7318568 (1.73194805 1.7305195 1.2785 M	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 M Ref Level 3 Att 20 dBm	1 1 1 1 1 1 5 Spectrum 1.50 dBm Offse 20 dB SWT and Width	L.7318568 (1.73194805 1.73305195 1.2785 μ 1.2785 μ 1.2785 μ 1.2785 μ 1.2785 μ	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 D1 M MultiView Ref Level 3 * Att • Occupied 5 20 dBm 10 dBm	Spectrum	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid	Function		1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 D1 M MultiView Ref Level 3 Att 10 dBm 0 dBm -10 dBm	1 1 1 1 1 1 5 Spectrum 1.50 dBm Offse 20 dB SWT and Width	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid			1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 D1 M	Spectrum	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid			1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Ref M1 T1 T2 D1 D1 M	Spectrum	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid			1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 D1 M MultiView Ref Level 3 Att T Occupied B 20 dBm 0 dBm 10 dBm	Spectrum	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid			1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rt M1 T1 T2 D1 D1 M	Spectrum	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid			1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 D1 M	Spectrum	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	SHz SHz Hz	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB	nel Mid			1.10389610	4 MHz 24.03.2017 14:12:26 ▼ ■ 1Pk Max −10.46 dBn 7.5366320 GH −0.62 dB
Type Rd M1 T1 T2 D1 D1 M	1 1 1 1 1 1 5 Spectrum 1.50 dBm Offset 20 dB Sfwr andwidth H1 15.720 dBm H2 -10.28	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r	BHz BHz HZ dB ● RBW 30 ns) ● VBW 100 	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB Chann 0.8 db 0.08 dB					4 MHz 24.03.2017 14:12:26 ♥ ■ 1Pk Max -10.46 dBm -75366320 GHJ -0.62 dE 1.27750 MHz
Type Rt M1 T1 T2 D1 D1 M T2 D1 MultiView Ref Level 3 Att I Occupied if 20 dBm 0 10 dBm 0 0 dBm	1 1 1 1 1 Spectrum 1.50 dBm Offse 20 dB SWT andwidth H1 15.720 dBm H2 -10.28 H2 +10.28 H2 +10.28 H2 +10.28 H2 +10.28 H2 +10.28 H2 +10.28	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r 140 μs (~7.1 r 0 dBm	3Hz HZ HZ dB • RBW 30 rs) • VBW 100 	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB Chann 0.08 dB		0.0 kHz/		<pre>1.10389610</pre>	4 MHz 24.03.2017 14:12:26 14:12:26 10:46 dBn -30.62 dE 1.27750 MHz Span 2.5 MHz
Type R MI TI T2 D1 D1 M T2 D1 MultiView Ref Level 3 Att Odsm 10 dBm 0 dBm 0 dBm	1 1 1 1 1 Spectrum 1.50 dBm Offse 20 dB SWT andwidth H1 15.720 dBm H2 -10.28 H2 +10.28 H2 +10.28 H2 +10.28 H2 +10.28 H2 +10.28 H2 +10.28	L.7318568 (с 1.73194805 1.73305195 1.2785 М 1.2785 М 1.2785 М 1.40 µs (~7.1 140 µs (~7.1 140 µs (~7.1 140 µs (~7.1) 0 0000 1.40 µs (~7.1) 0 00000 1.40 µs (~7.1) 0 00000 1.40 µs (~7.1	3Hz Hz dB = RBW 30 ns) = VBW 100 	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB Chanr 0.88 dB Chanr 0.842 Mode Au			Measuring		4 MHz
Type R.K MI TI T1 T2 D1 M Ref Level Att 10 dBm Att 20 dBm I 0 dBm I -30 dBm -30 dBm -30 dBm -60 dBm -50 dBm -60 dBm -60 dBm CF -75743 GI Z 20 dBm -70 dBm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L.7318568 (C 1.73194805 1.73305195 1.2785 Ν 1.2785 Ν 1.40 μs (~7.1 r 140 μs (~7.1 r 0 dBm	BHz BHz Hz dB • RBW 30 ns) • VBW 100 	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB Chann 0.08 dB	to FFT	0.0 kHz/	Measuring	1.10389610	4 MHz 24.03.2017 14.12:26 V 10.46 dBm -0.62 dB 1.27750 MHz Span 2.5 MHz Span 2.5 MHz
Type Re M1 T1 T2 D1 D1 M Ref Level 3 Att DOccupied II Occupied II 20 dBm 0 10 dBm 0 30 dBm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L.7318568 (с 1.73194805 1.73305195 1.2785 М 1.2785 М 1.40 µs (~7.1 140 µs (~7.1 140 µs (~7.1 140 µs (~7.1 140 µs (~7.1) 0 dBm М1 0 dBm 1.7536632 (с 1.75375055 1.75375055 1.75375055	BHz BHz Hz dB • RBW 30 ns) • VBW 100 	10.27 dBm 9.39 dBm 9.38 dBm 0.08 dB Chann Chann 0.8420	to FFT	0.0 kHz/	Measuring	1.10389610	4 MHz 24.03.2017 14:12:26
Type Rd M1 T1 T2 D1 D1 M Ref Level 3 Att 10 dBm 0 dBm 0 dBm -0 dBm -30 dBm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L.7318568 (с 1.73194805 1.73305195 1.2785 М 1.2785 М 1.40 µs (~7.1 140 µs (~7.1 140 µs (~7.1 140 µs (~7.1 140 µs (~7.1) 0 dBm М1 0 dBm 1.7536632 (с 1.75375055 1.75375055 1.75375055	BHz BHz Hz dB • RBW 30 ns) • VBW 100 	10.27 dBm 9.39 dBm 9.39 dBm 9.38 dBm 0.08 dB Chann Chann Chann tht: Mode Au s th: V-Value 10.46 dBm 9.70 dBm 9.70 dBm 9.70 dBm 9.70 dBm 9.70 dBm 9.70 dBm	to FFT	0.0 kHz/	Measuring	M1[1] D1[1] Function Re 1.09640359	4 MHz 24.03.2017 14:12:26

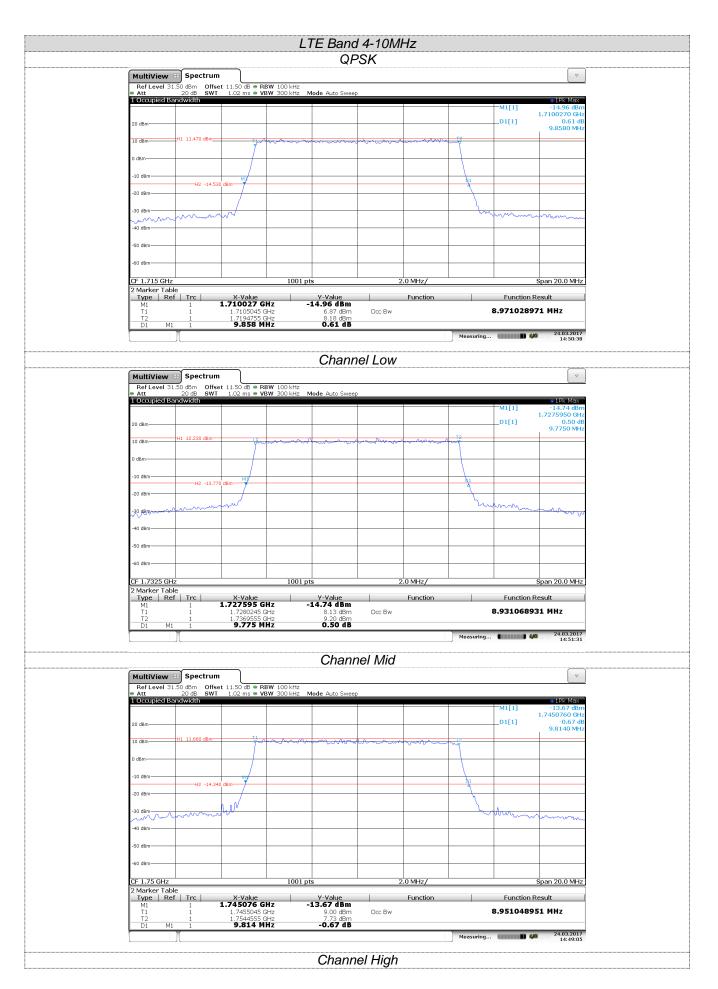


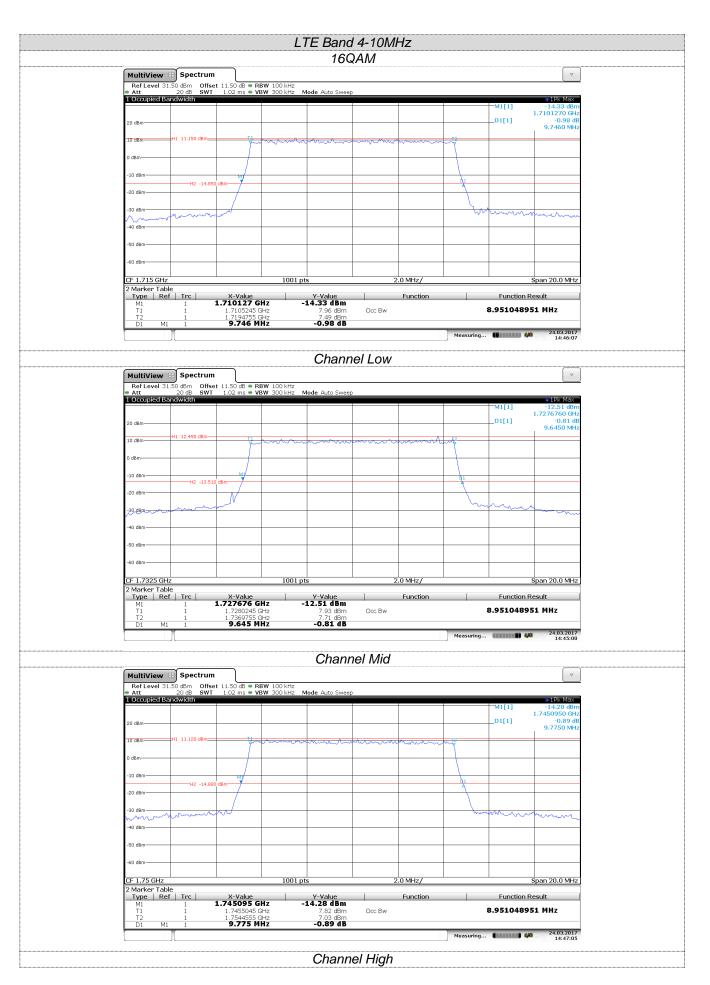


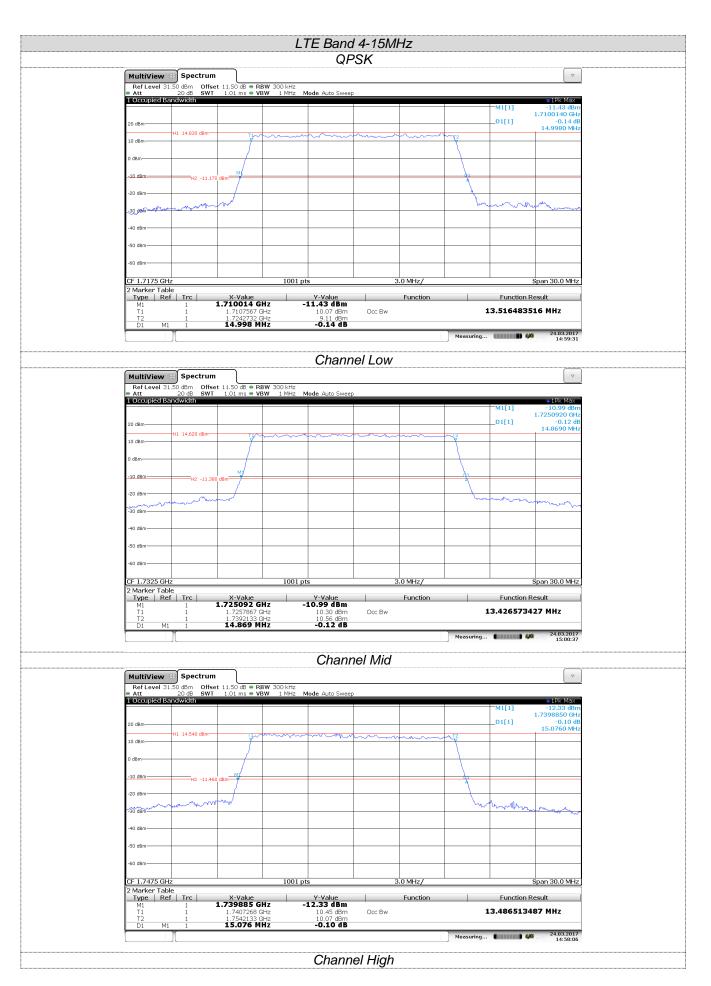


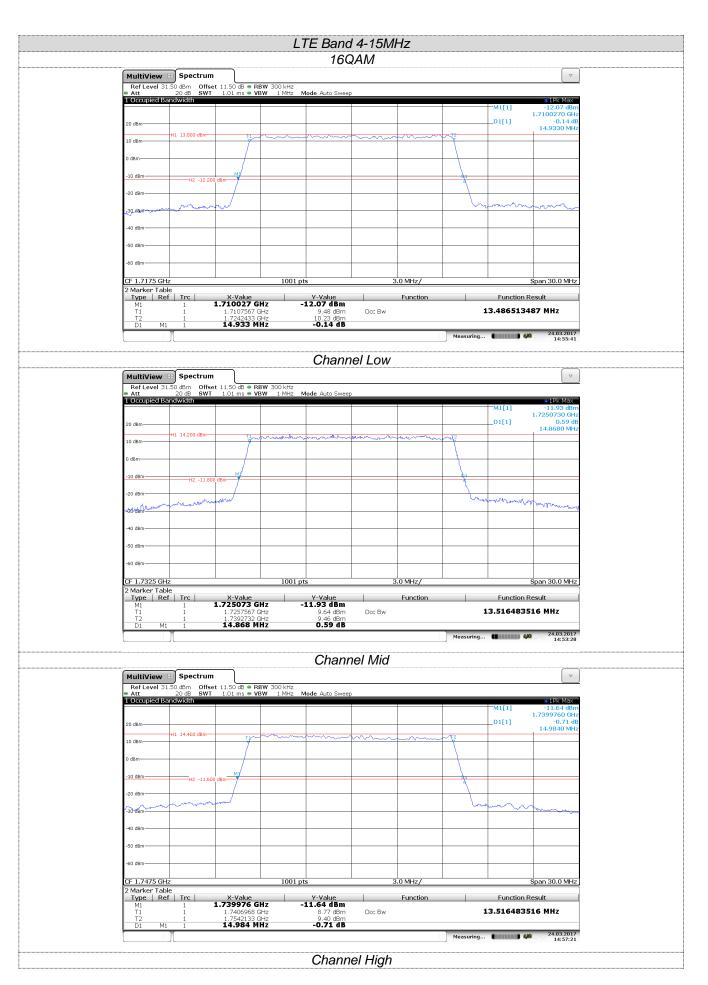


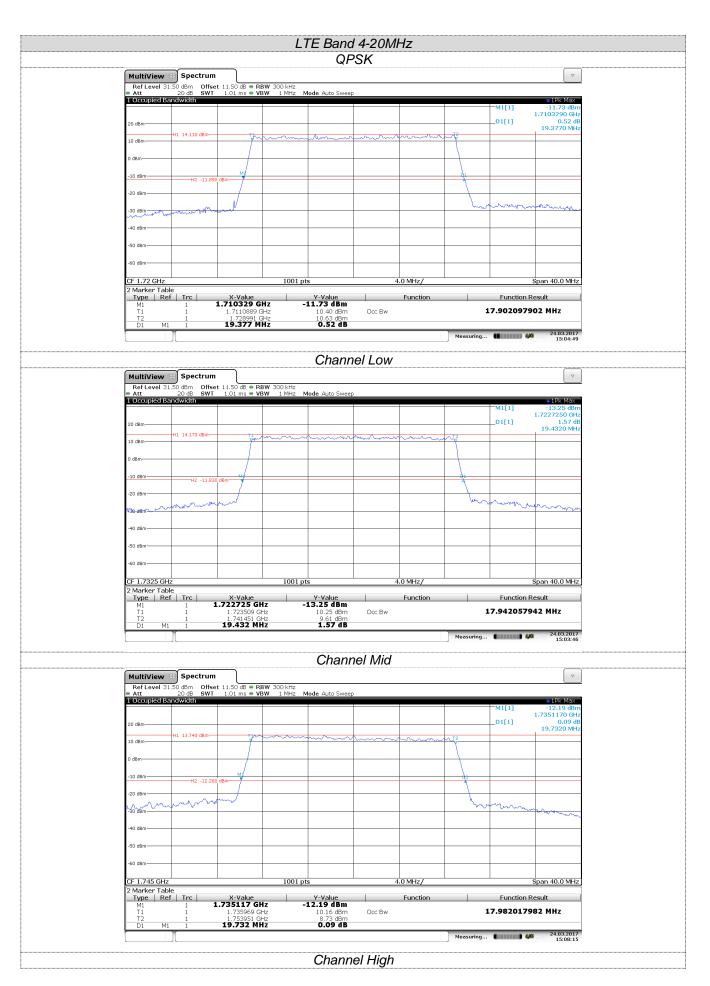


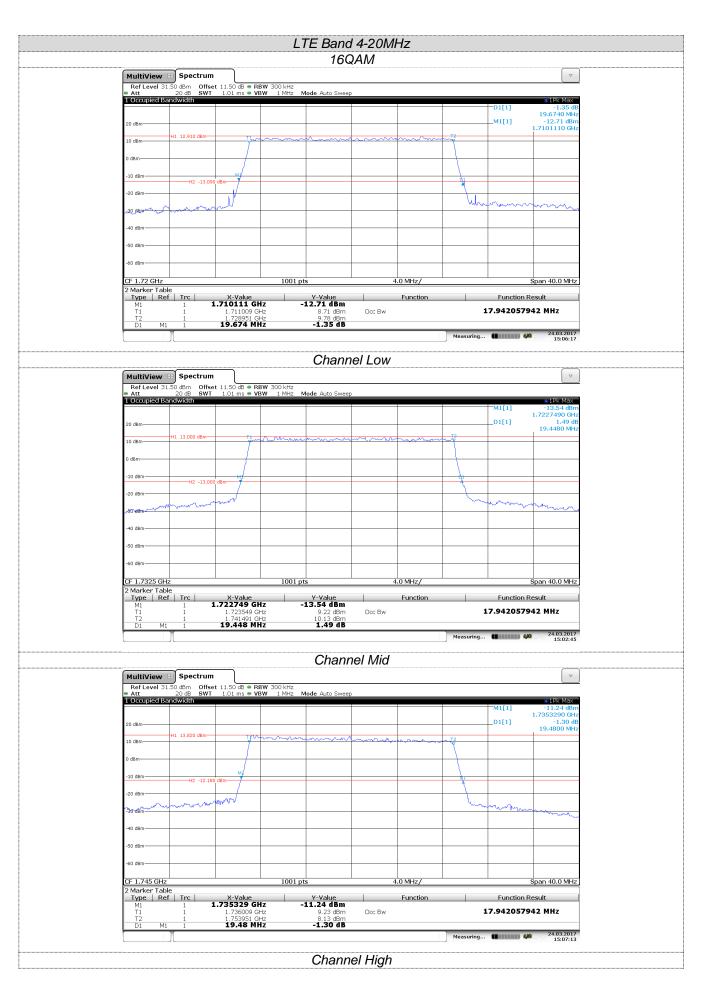


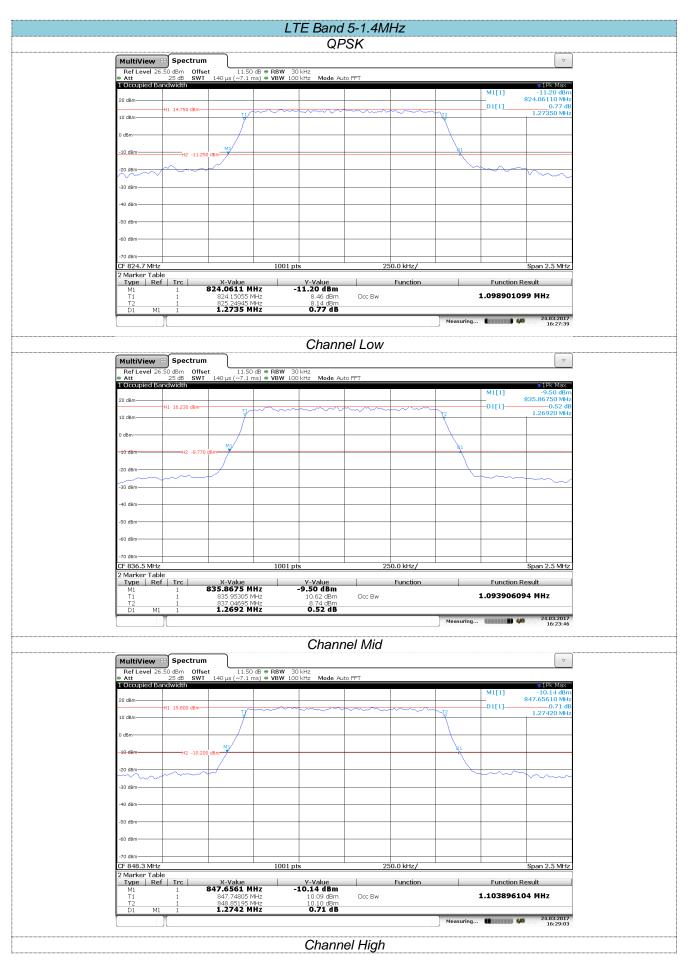


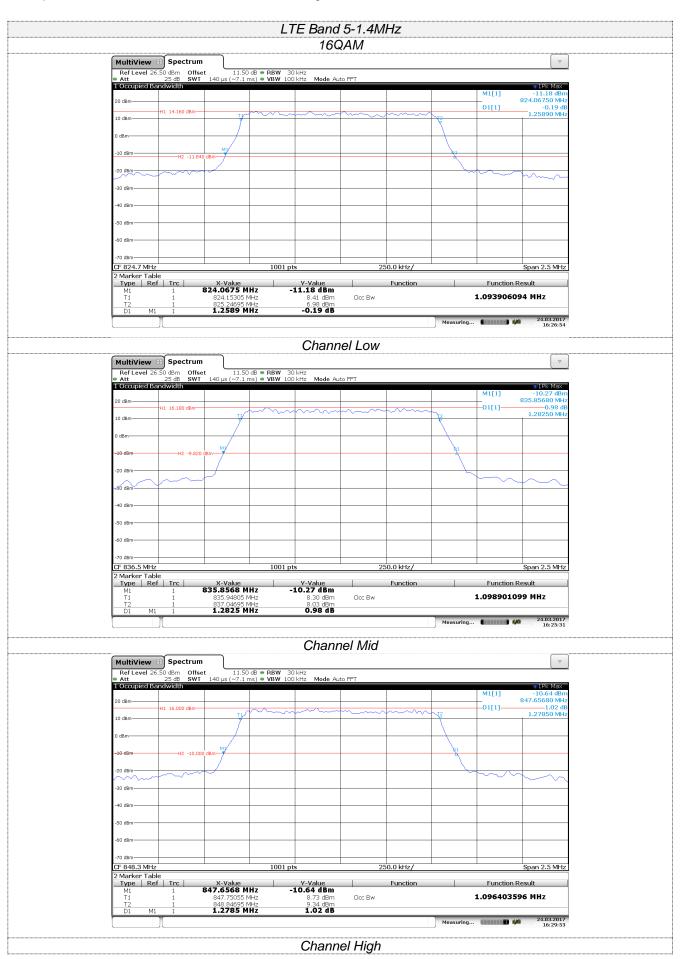


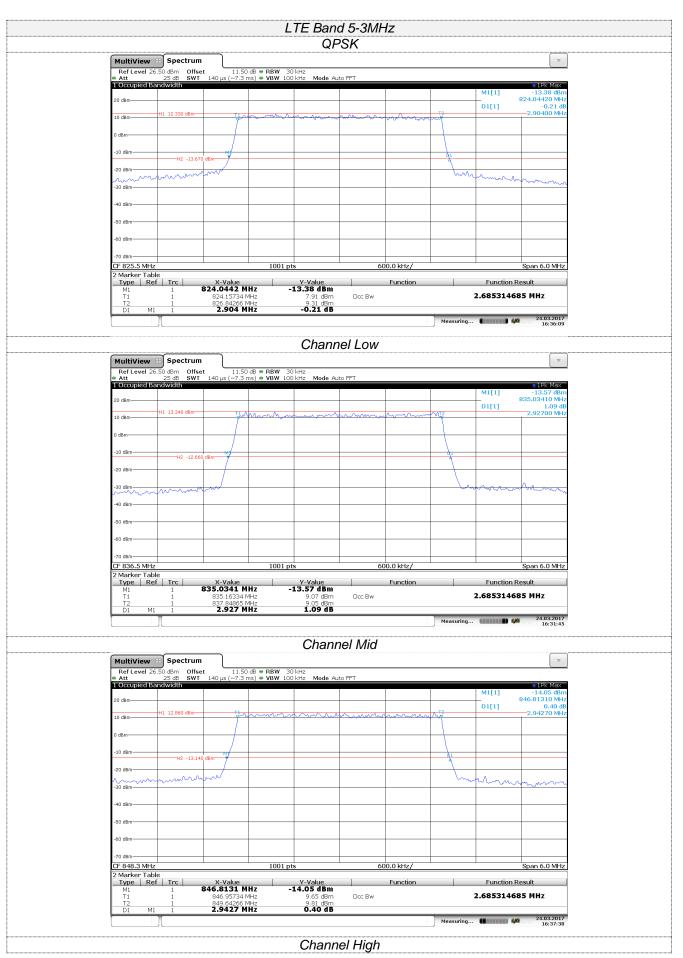


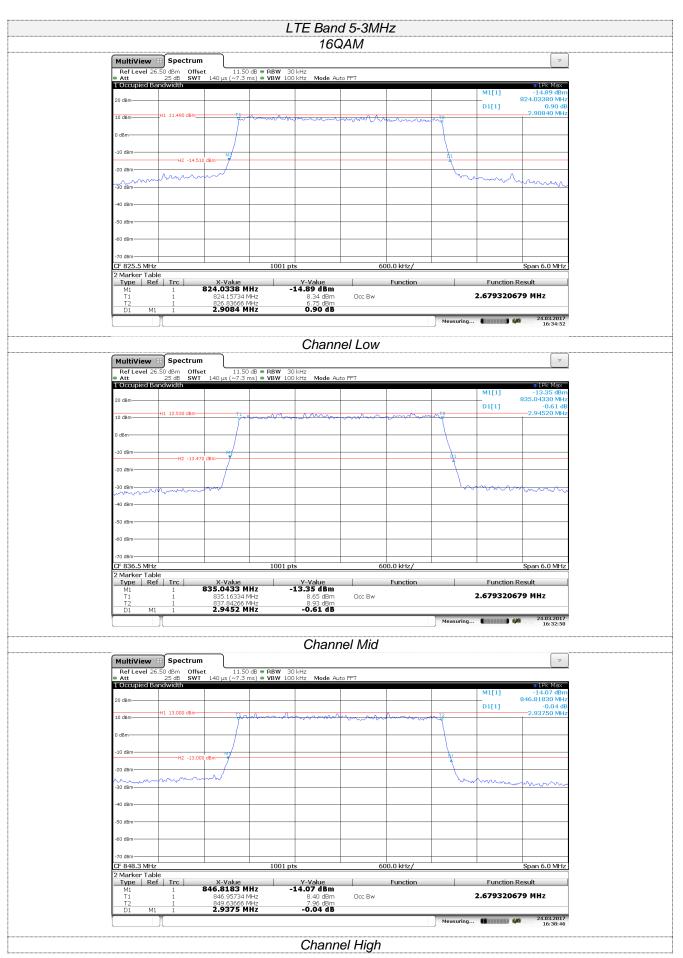


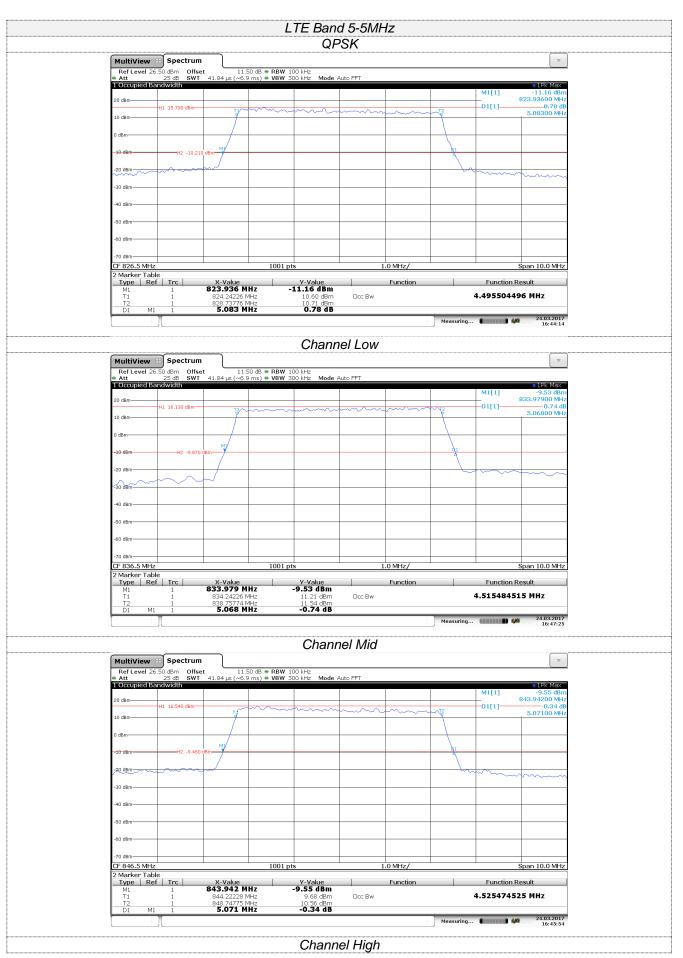


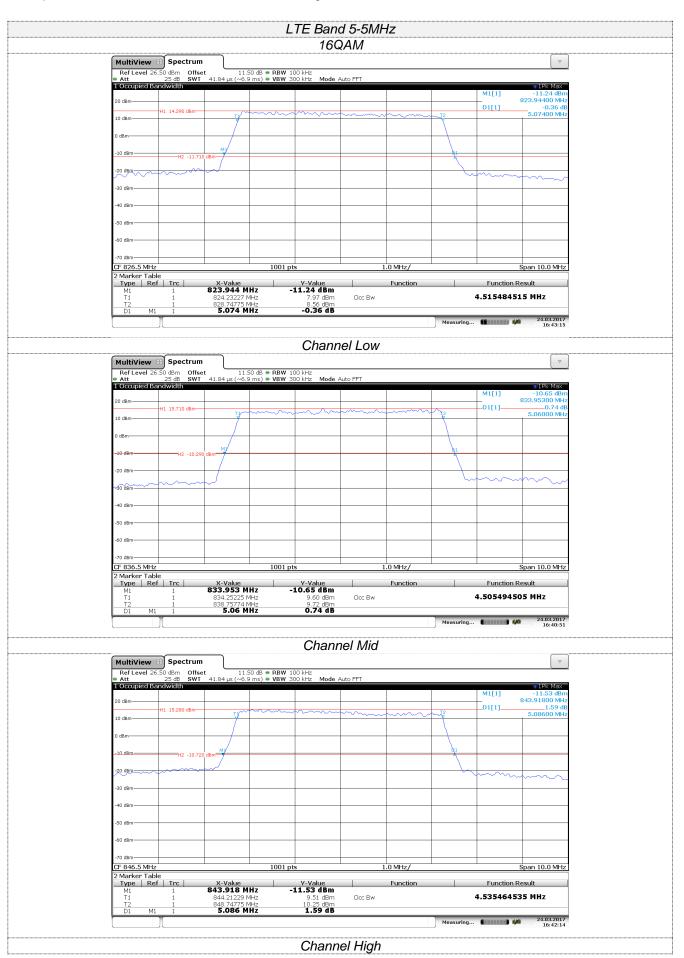


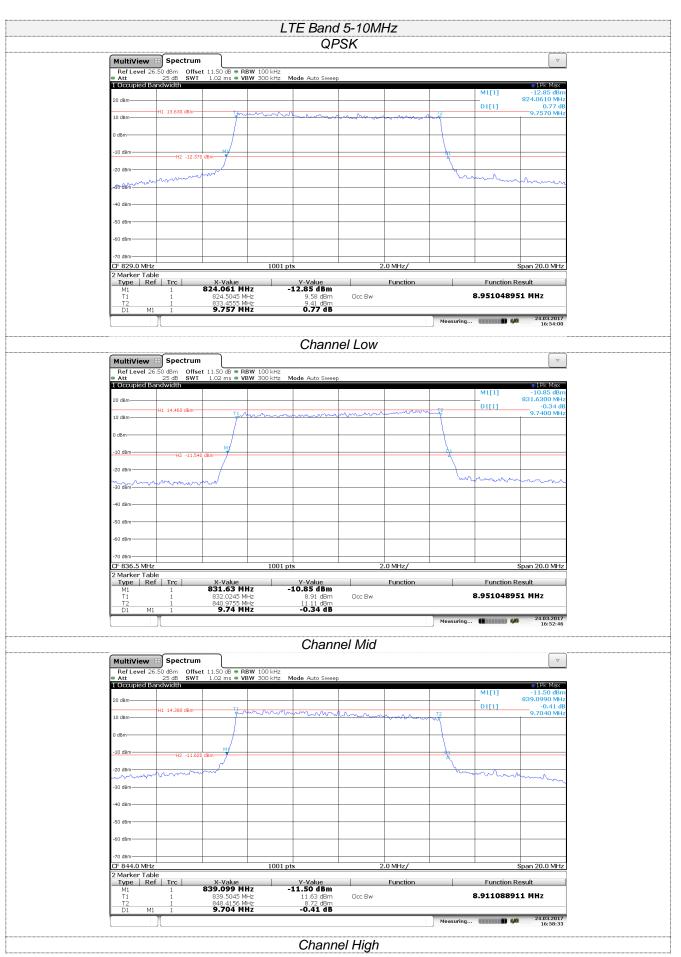


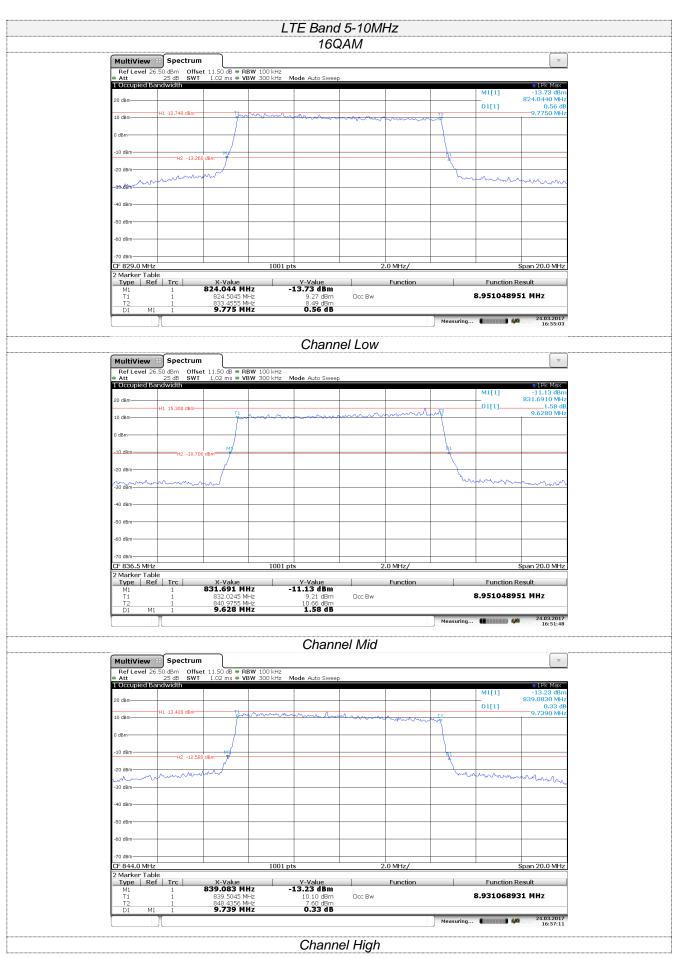


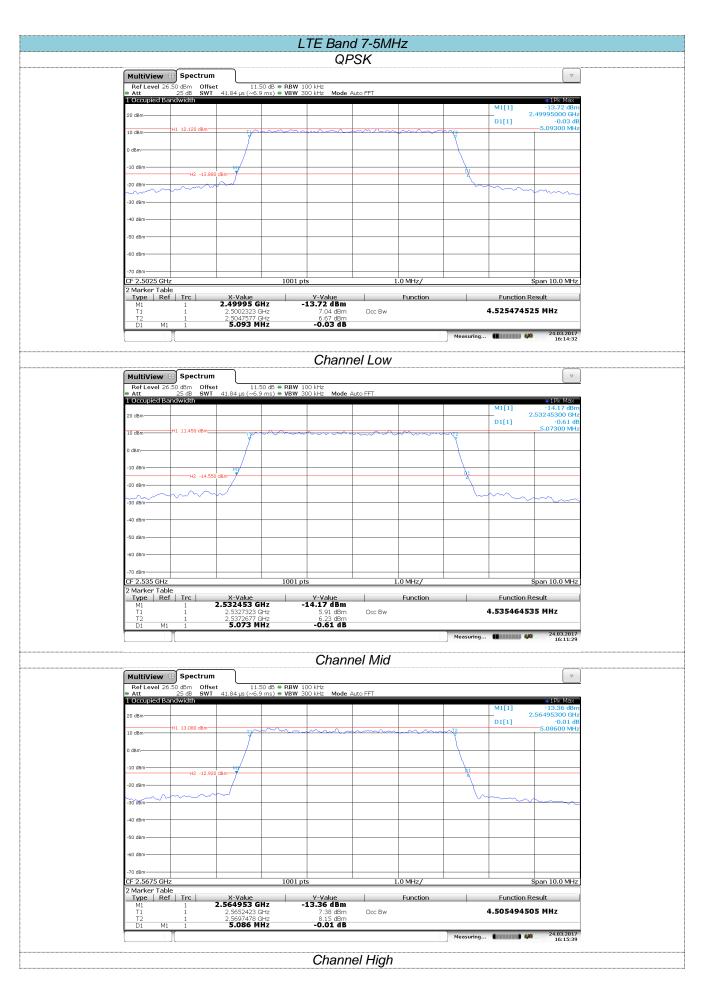


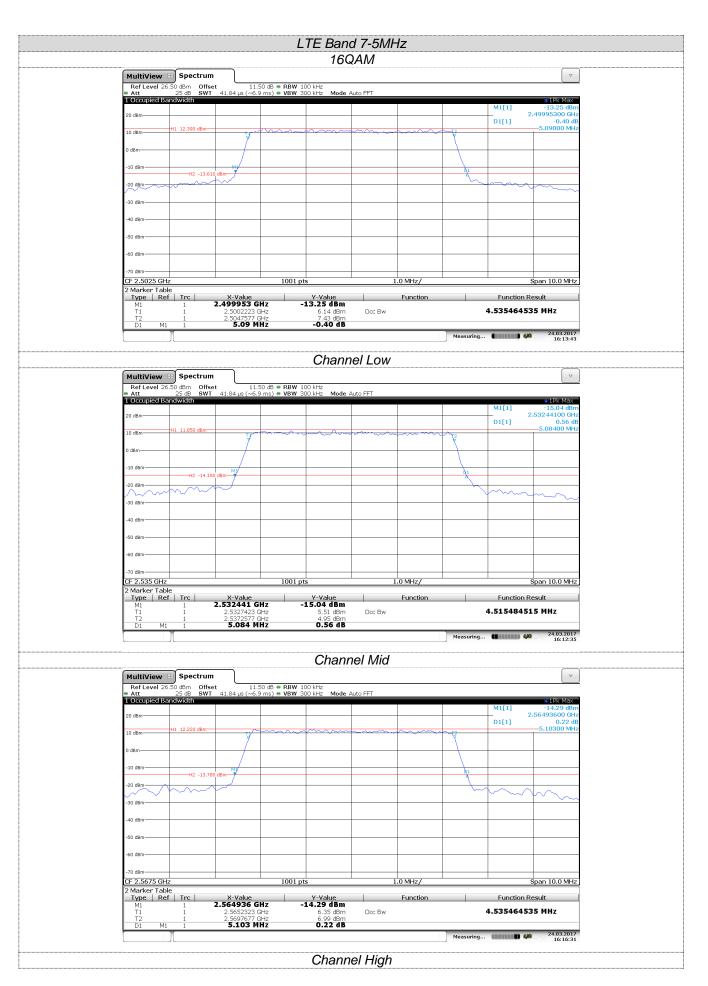


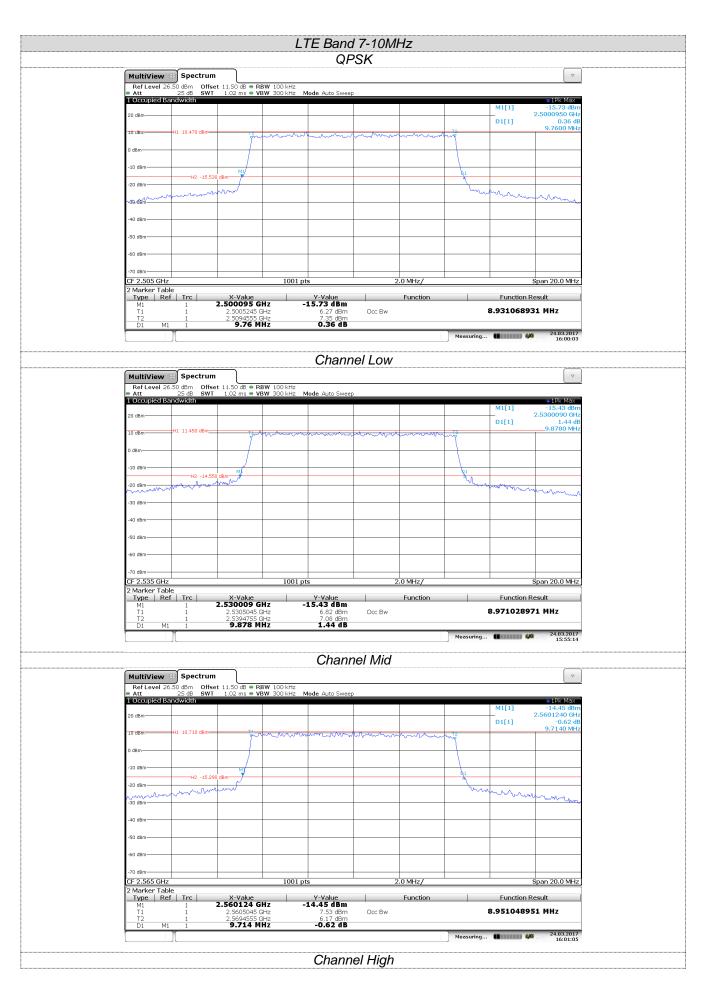


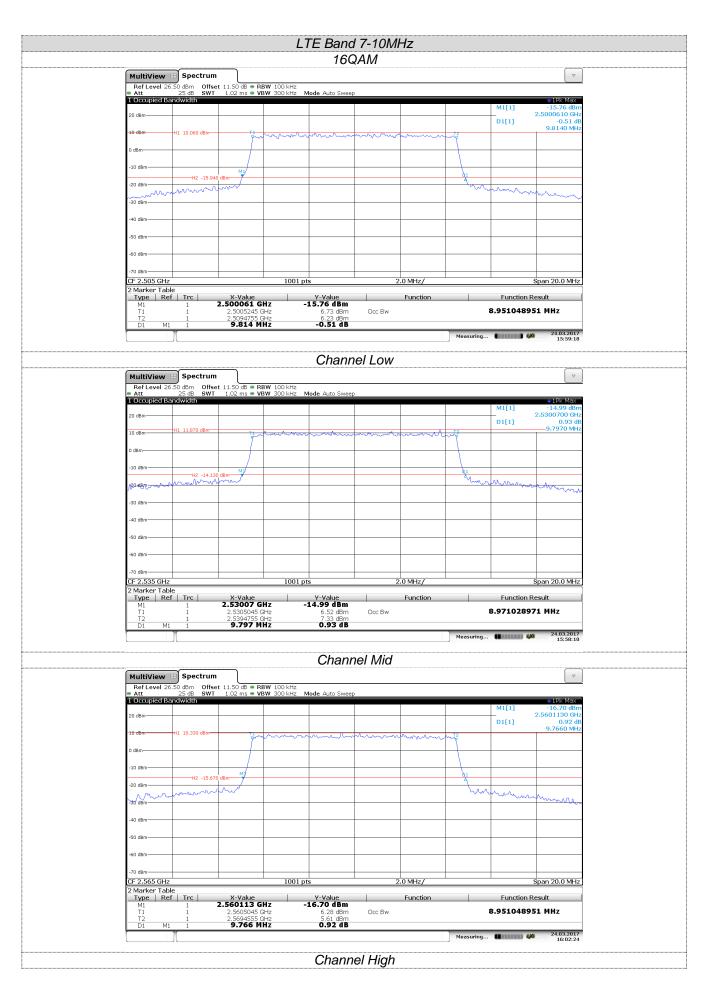


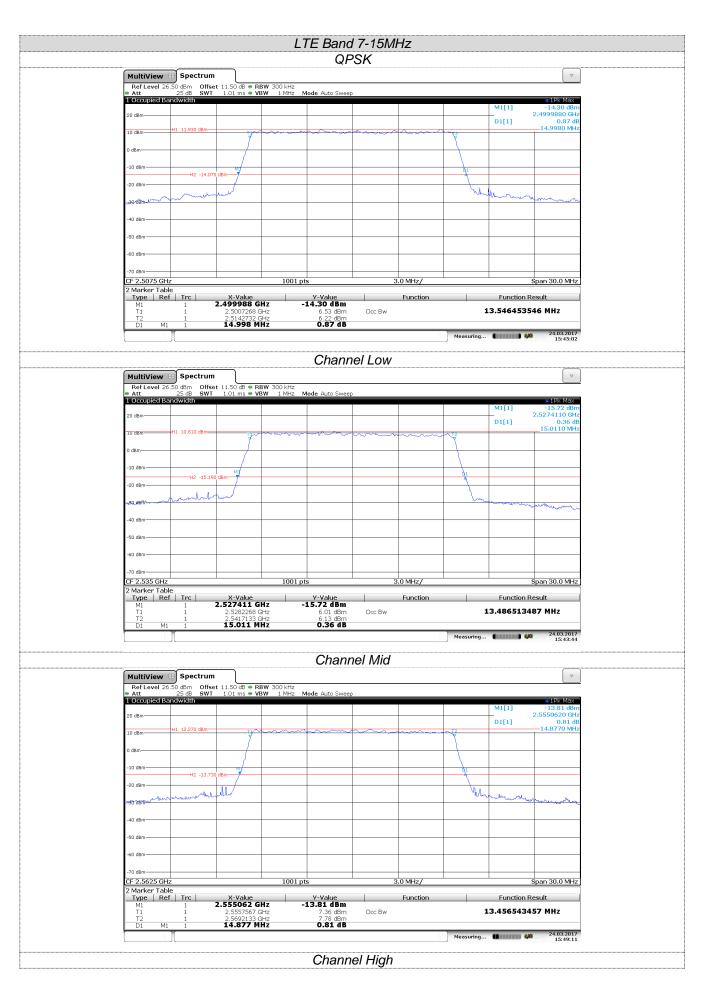


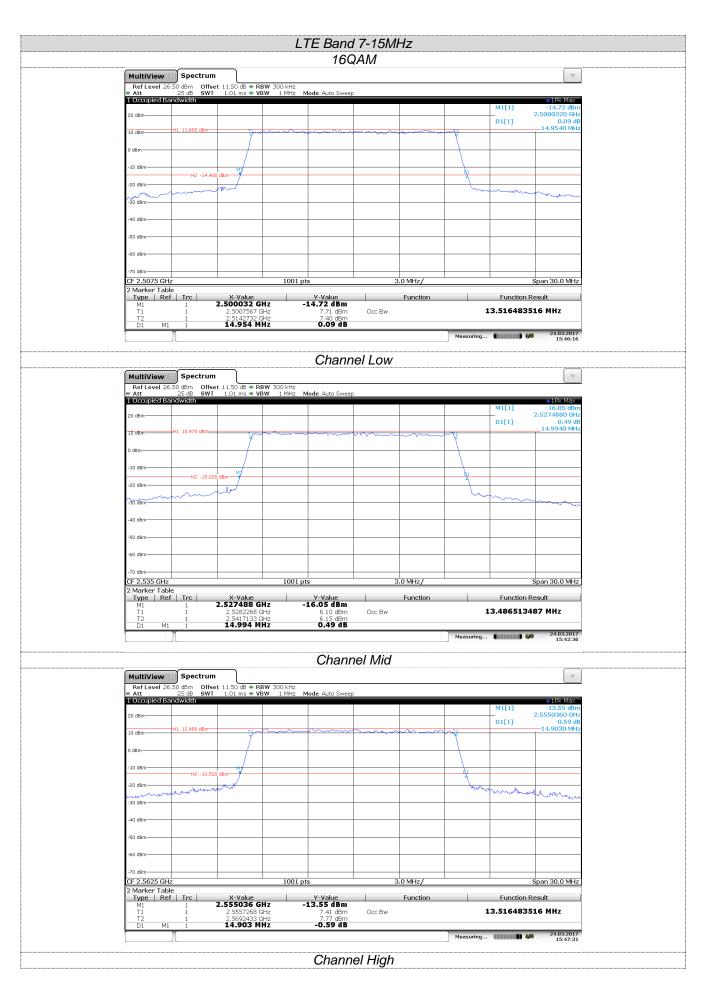


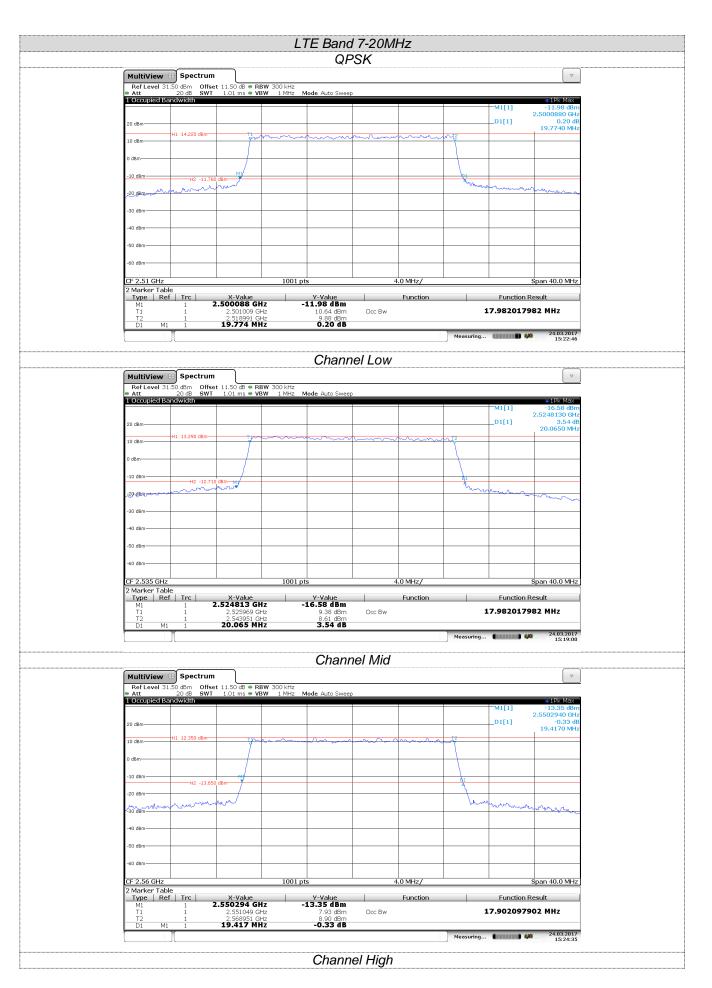


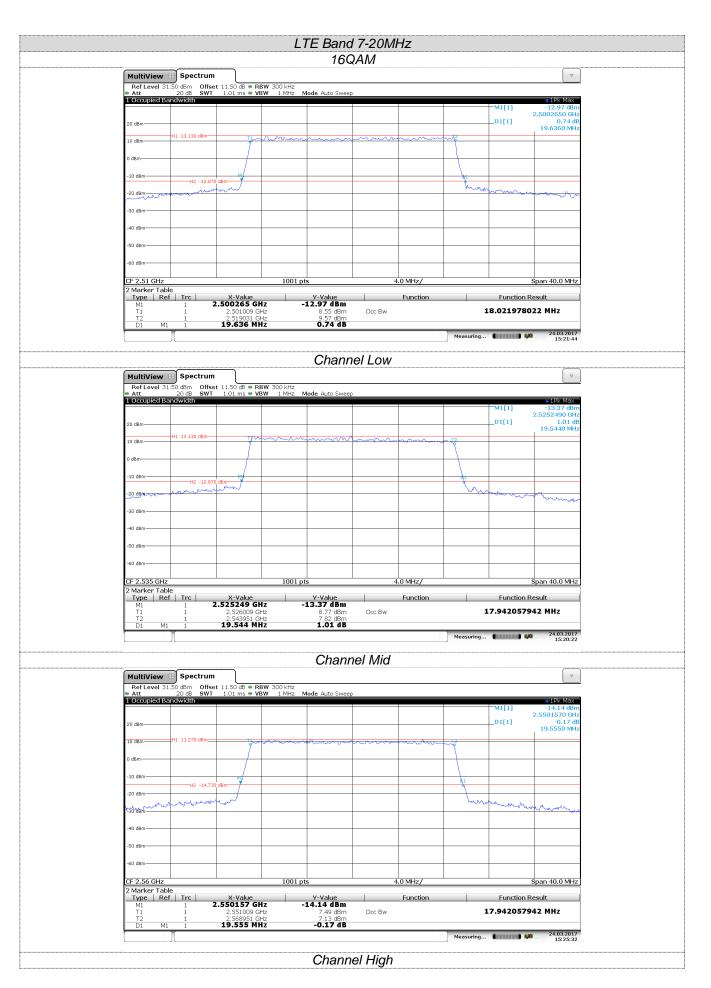












5.3. Conducted Spurious Emissions

LIMIT

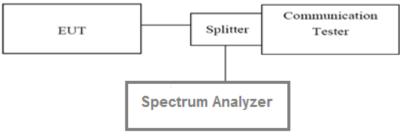
Part 24.238 and Part 22.917 and Part 27.53 h(1) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

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

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P) dB$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P) dB$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. Limit <-25 dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- 2. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficientscans were taken to show the out of band Emissions if any up to 10th harmonic.
- 3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

☑ Passed □ Not Applicable

