FCC & IC REPORT
(LTE)

Applicant:	Punkt Tronics AG
Address of Applicant:	Via Losanna 4, CH6900 Lugano, Switzerland
Equipment Under Test (EUT)	
Product Name:	feature phone
Model No.:	MP 02
Trade mark:	Punkt.
FCC ID:	Z3PMP02
Canada ID:	20683-MP02
Applicable standards:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E FCC CFR Title 47 Part 27 Subpart L FCC CFR Title 47 Part 27 Subpart M FCC CFR Title 47 Part 27 Subpart H RSS-Gen Issue 5, April 2018 RSS-130 Issue 1, October 2013 RSS-132 Issue 3, January 2013 RSS-133 Issue 6 January 2018 Amendment RSS-139 Issue 3, July 2015 RSS-199 Issue 3, December 2016
Date of sample receipt:	26 Jun., 2018
Date of Test:	26 Jun., to 11 Oct., 2018
Date of report issued:	12 Oct., 2018
Test Result:	PASS*

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

Authorized Signature:

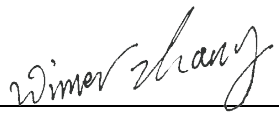
Bruce Zhang
Laboratory Manager

2. Version

Version No.	Date	Description
00	*12 Oct., 2018*	*Original*

Tested by:  ***Date:*** *12 Oct., 2018*

Test Engineer

Reviewed by:  ***Date:*** *12 Oct., 2018*

Project Engineer

3. Contents

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4. Test Summary

Test Items	Section		Result
	FCC	IC	
RF Exposure (SAR)	Part 1.1307 Part 2.1093	RSS-102	Passed (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) Part 27.50 (h)(2)	RSS-Gen Section 6.12 RSS-130 section 4.4 RSS-132 section 5.4 RSS-133 section 6.4 RSS-139 section 6.5 RSS-199 section 4.4	Pass
Peak-to-Average Ratio	Part 24.232 (d) Part 27.50(d)(5)	RSS-130 section 4.4 RSS-132 section 5.4 RSS-133 section 6.4 RSS-139 section 6.5 RSS-199 section 4.4	Pass
Modulation Characteristics	Part 2.1047	RSS-130 section 4.1 RSS-132 section 5.2 RSS-133 section 6.2 RSS-139 section 6.2 RSS-199 section 4.1	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(g) Part 27.53(h) Part 27.53(m)	RSS Gen section 6.6	Pass
Out of band emission at antenna terminals	Part 2.1051 Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m)	RSS-Gen section 6.13 RSS-130 section 4.6 RSS-132 section 5.5 RSS-133 section 6.5 RSS-139 section 6.6 RSS-199 section 4.5	Pass
Field strength of spurious radiation	Part 2.1053 Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) Part 27.53(m)	RSS-Gen section 6.13 RSS-130 section 4.6 RSS-132 section 5.5 RSS-133 section 6.5 RSS-139 section 6.6 RSS-199 section 4.5	Pass
Frequency stability vs. temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	RSS-Gen section 6.11 RSS-130 section 4.3 RSS-132 section 5.3 RSS-133 section 6.3 RSS-139 section 6.4 RSS-199 section 4.3	Pass
Frequency stability vs. voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	RSS-Gen section 6.11 RSS-130 section 4.3 RSS-132 section 5.3 RSS-133 section 6.3 RSS-139 section 6.4 RSS-199 section 4.3	Pass
Pass: The EUT complies with the essential requirements in the standard.			

5. General Information

5.1 Client Information

Applicant:	Punkt Tronics AG
Address:	Via Losanna 4, CH6900 Lugano, Switzerland
Manufacturer:	Punkt Tronics AG
Address:	Via Losanna 4, CH6900 Lugano, Switzerland
Factory:	Dongguan Yuanchang Electronic Co., Ltd.
Address:	No.15, Zhuangyuanbi Street, Matigang Village, Dalingshan Town, Dongguan City, Guangdong Province, China.

5.2 General Description of E.U.T.

Product Name:	feature phone
Model No.:	MP 02
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz, RX: 1930MHz-1990MHz LTE Band 4: TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz LTE Band 5: 824MHz-849MHz, RX: 869MHz-894MHz LTE Band 7: TX: 2500MHz-2570MHz, RX: 2620MHz-2690MHz LTE Band 12: TX: 699MHz-716MHz, RX: 729MHz-746MHz LTE Band 17: TX: 704MHz-716MHz, RX: 734MHz-746MHz
Modulation type:	QPSK, 16QAM
Antenna type:	Internal Antenna
Antenna gain:	LTE Band 2: -1.5dBi LTE Band 4: -1.5dBi LTE Band 5: -1.4dBi LTE Band 7: -1.0dBi LTE Band 12: -2.0dBi LTE Band 17: -2.0dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-1280mAh
AC adapter:	Adapter 1: Model: YJC005Z-0501000U Input: AC100-240V, 50/60Hz, 200mA Output: DC 5.0V, 1000Ma Adapter 2: Model: APP524-050200U-1 Input: AC100-240V, 50/60Hz, 0.45A Output: DC 5.0V, 2A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency List:

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

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

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

LTE Band 7 (5MHz)		LTE Band 7 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.50	20800	2505.00
20776	2502.60	20801	2502.10
….	….	….	….
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
…	…	…	…
21424	2567.40	21399	2564.90
21425	2567.50	21400	2565.00
LTE Band 7 (15MHz)		LTE Band 7 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.50	20850	2510.00
20826	2507.60	20851	2510.10
….	….	….	….
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
…	…	…	…
21374	2562.40	21349	2559.90
21375	2562.50	21350	2560.00

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

LTE Band 17 (5MHz)		LTE Band 17 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23755	706.50	23780	709.00
23756	706.60	23781	709.10
….	….	….	….
23789	709.90	23789	709.90
23790	710.00	23790	710.00
23791	710.10	23791	710.10
…	…	…	…
23824	713.40	23799	710.90
23825	713.50	23800	711.00

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

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

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

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

LTE Band 7 (5MHz)			LTE Band 7 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20775	2502.50	Lowest channel	20800	2505.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21425	2567.50	Highest channel	21400	2565.00
LTE Band 7 (15MHz)			LTE Band 7 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20825	2507.50	Lowest channel	20850	2510.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21375	2562.50	Highest channel	21350	2560.00

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

LTE Band 17(5MHz)			LTE Band 17(10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	23755	706.50	Lowest channel	23780	709.00
Middle channel	23790	710.00	Middle channel	23790	710.00
Highest channel	23825	713.50	Highest channel	23800	711.00

5.3 Test environment and mode

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

5.4 Description of Support Units

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

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Related Submittal(s) / Grant (s)

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

5.7 Laboratory Facility

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

- **FCC - Registration No.: 727551**

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

- **IC - Registration No.: 10106A-1**

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

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

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

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

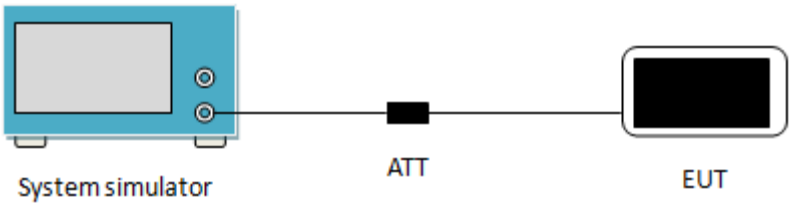
Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.9 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2017	11-20-2018
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Spectrum Analyzer	Agilent	N9020A	MY50510123	10-29-2017	10-28-2018
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-07-2018	03-06-2019
Signal Generator	R&S	SMR20	1008100050	03-07-2018	03-06-2019
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2017	10-30-2018
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2018	09-23-2019
Simulated Station	Rohde & Schwarz	CMW500	140493	07-16-2018	07-15-2019

6. Test results

6.1 Conducted Output Power, ERP and EIRP

Test Requirement:	Part 22.913(a)(2), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)(2) RSS-130 section 4.4, RSS-132 section 5.4, RSS-133 section 6.4 RSS-139 section 6.5, RSS-199 section 4.4
Test Method:	ANSI/TIA-603-D 2010
Limit:	**FCC:** LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 7: 2W, LTE Band 12: 3W, LTE Band 17: 3W **IC:** LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 11.5W, LTE Band 7: 2W, LTE Band 12: 5W, LTE Band 17: 5W
Test Setup:	
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
2	1.4	QPSK	1	0	22.30	22.20	22.23
			1	2	22.23	22.31	22.06
			1	5	22.27	22.31	22.18
			3	0	21.54	21.87	21.93
			3	1	21.52	21.31	21.04
			3	2	21.46	21.29	21.83
			6	0	21.48	21.43	21.45
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.43		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	21.40	22.37	21.29
			1	2	21.24	21.45	21.20
			1	5	21.63	21.28	21.04
			3	0	21.53	21.95	21.12
			3	1	21.43	22.19	21.07
			3	2	21.33	21.42	21.14
			6	0	20.58	20.31	20.40
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.87		
		EIRP Limit (dBm):			33.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
2	3	QPSK	1	0	22.40	22.93	22.34
			1	7	22.83	22.36	22.31
			1	14	22.71	22.54	22.19
			8	0	21.45	21.44	21.52
			8	4	21.48	21.53	21.53
			8	7	21.43	21.62	21.46
			15	0	21.32	21.52	21.57
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.43		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	21.96	22.07	21.42
			1	7	21.17	21.12	21.37
			1	14	22.03	21.57	21.26
			8	0	20.34	20.33	20.63
			8	4	20.34	20.39	20.49
			8	7	20.55	20.39	20.58
			15	0	20.78	20.40	20.66
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.57		
		EIRP Limit (dBm):			33.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
2	5	QPSK	1	0	22.43	22.37	22.39
			1	12	22.11	22.29	22.30
			1	24	22.03	22.35	22.10
			12	0	21.48	21.30	21.44
			12	6	21.27	21.48	21.41
			12	11	21.38	21.58	21.43
			25	0	21.51	21.40	21.48
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.93		
		EIRP Limit (dBm):			33.00		
		16QAM	1		21.42	21.76	21.44
			1	12	22.49	21.02	21.14
			1	24	22.20	21.66	21.11
			12	0	20.32	20.41	20.58
			12	6	20.39	20.49	20.62
			12	11	20.35	20.60	20.60
			25	0	20.36	20.34	20.66
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.99		
		EIRP Limit (dBm):			33.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
2	10	QPSK	1	0	22.67	22.31	22.62
			1	24	22.53	22.27	22.38
			1	49	22.13	22.78	22.52
			25	0	21.19	21.24	21.21
			25	12	21.37	21.62	21.84
			25	24	21.34	21.61	21.23
			50	0	21.46	21.40	21.35
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.28		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	21.78	21.53	21.95
			1	24	22.62	22.08	21.44
			1	49	21.67	21.88	21.22
			25	0	20.57	20.49	20.49
			25	12	20.43	20.83	20.82
			25	24	20.33	20.67	20.39
			50	0	20.34	20.41	20.46
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.12		
		EIRP Limit (dBm):			33.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
2	15	QPSK	1	0	22.29	22.43	22.43
			1	37	22.32	22.87	22.18
			1	74	22.38	22.34	22.03
			36	0	21.04	21.11	21.43
			36	16	21.44	21.68	21.62
			36	35	21.19	21.71	21.83
			75	0	21.34	21.50	21.28
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.37		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	22.29	21.73	21.73
			1	37	21.97	22.05	22.78
			1	74	21.26	21.74	21.74
			36	0	20.39	20.45	20.49
			36	16	20.43	20.64	20.68
			36	35	20.31	20.66	20.78
			75	0	20.30	20.35	20.43
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.28		
		EIRP Limit (dBm):			33.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
2	20	QPSK	1	0	22.86	22.22	22.53
			1	49	22.43	22.69	21.92
			1	99	22.04	22.43	22.48
			50	0	21.20	21.37	21.66
			50	24	21.89	21.87	21.57
			50	49	20.81	21.49	21.48
			100	0	21.48	21.41	21.35
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.26		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	22.00	21.45	22.08
			1	49	22.27	21.89	22.61
			1	99	21.67	21.94	21.81
			50	0	20.52	20.48	20.43
			50	24	20.97	20.68	20.57
			50	49	20.71	20.56	20.36
			100	0	20.31	20.40	20.52
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.11		
		EIRP Limit (dBm):			33.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
4	1.4	QPSK	1	0	22.52	22.43	22.50
			1	2	22.32	22.42	22.46
			1	5	22.43	22.43	22.53
			3	0	21.50	21.43	21.42
			3	1	21.64	21.59	21.36
			3	2	21.53	21.60	21.35
			6	0	21.55	21.63	21.53
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.14		
		EIRP Limit (dBm):			30.00		
		16QAM	1	0	21.67	22.13	21.24
			1	2	21.69	21.14	21.98
			1	5	21.45	21.55	21.15
			3	0	21.01	21.93	21.62
			3	1	21.32	21.84	21.55
			3	2	21.25	21.70	21.43
			6	0	20.47	20.63	20.54
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.63		
		EIRP Limit (dBm):			30.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
4	3	QPSK	1	0	21.67	21.28	22.42
			1	7	21.68	21.43	22.16
			1	14	21.70	21.63	22.43
			8	0	21.52	21.12	21.53
			8	4	21.36	21.25	21.41
			8	7	21.73	21.16	21.93
			15	0	21.05	21.00	21.63
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.93		
		EIRP Limit (dBm):			30.00		
		16QAM	1	0	21.64	21.14	21.39
			1	7	21.44	21.36	21.24
			1	14	21.11	21.15	21.52
			8	0	20.33	20.36	20.46
			8	4	20.75	20.41	20.43
			8	7	20.42	20.35	20.52
			15	0	20.64	20.37	20.75
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.14		
		EIRP Limit (dBm):			30.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19975	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
4	5	QPSK	1	0	22.43	22.41	22.63
			1	12	22.34	22.36	22.49
			1	24	22.41	22.52	22.16
			12	0	21.48	21.39	21.45
			12	6	21.57	21.64	21.46
			12	11	21.62	21.43	21.54
			25	0	21.52	21.63	21.69
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.14		
		EIRP Limit (dBm):			30.00		
		16QAM	1	0	21.62	21.41	21.73
			1	12	20.72	21.52	21.17
			1	24	21.19	21.74	21.44
			12	0	20.60	20.36	20.63
			12	6	20.58	20.42	20.41
			12	11	20.69	20.79	20.59
			25	0	20.56	20.51	20.67
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.24		
		EIRP Limit (dBm):			30.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20000	20175	20350
					1715.0MHz	1732.5MHz	1750.0MHz
4	10	QPSK	1	0	22.23	22.16	22.54
			1	24	22.34	22.27	22.41
			1	49	22.05	22.13	22.53
			25	0	21.48	21.52	21.71
			25	12	21.51	21.49	21.36
			25	24	21.40	21.73	21.41
			50	0	21.38	21.26	21.34
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.84		
		EIRP Limit (dBm):			30.00		
		16QAM	1	0	21.36	21.35	21.52
			1	24	21.30	21.20	21.36
			1	49	21.27	21.41	21.41
			25	0	20.36	20.54	20.49
			25	12	20.78	20.47	20.63
			25	24	20.48	20.45	20.74
			50	0	20.45	20.36	20.52
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.02		
		EIRP Limit (dBm):			30.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
4	15	QPSK	1	0	22.34	22.71	22.15
			1	37	22.19	22.17	22.41
			1	74	22.36	22.63	22.17
			36	0	21.53	21.53	21.36
			36	16	21.49	21.93	21.63
			36	35	21.26	21.52	21.58
			75	0	21.52	21.49	21.63
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.21		
		EIRP Limit (dBm):			30.00		
		16QAM	1	0	21.41	21.85	21.55
			1	37	21.36	21.27	21.41
			1	74	21.82	21.63	21.53
			36	0	20.41	20.97	20.59
			36	16	20.38	20.41	20.36
			36	35	20.49	20.53	20.52
			75	0	20.66	20.45	20.41
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.35		
		EIRP Limit (dBm):			30.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
4	20	QPSK	1	0	22.41	22.52	22.53
			1	49	22.53	22.41	22.19
			1	99	22.14	22.93	22.29
			50	0	21.39	21.64	21.49
			50	24	21.56	21.74	21.63
			50	49	21.79	21.59	21.49
			100	0	21.41	21.38	21.22
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			21.43		
		EIRP Limit (dBm):			30.00		
		16QAM	1	0	21.63	21.41	21.52
			1	49	21.49	21.29	21.41
			1	99	21.52	21.33	21.66
			50	0	20.41	20.53	20.97
			50	24	20.33	20.41	20.46
			50	49	20.30	20.91	20.75
			100	0	20.49	20.67	20.53
		Antenna Gain (dBi):			-1.5		
		Max. EIRP (dBm):			20.16		
		EIRP Limit (dBm):			30.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
5	1.4	QPSK	1	0	22.43	22.61	22.45
			1	2	22.50	22.60	22.44
			1	5	22.42	22.48	22.41
			3	0	21.57	21.61	21.62
			3	1	21.54	21.67	21.54
			3	2	21.44	21.50	21.52
			6	0	21.52	21.73	21.66
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			19.12		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			21.27		
		EIRP Limit for IC (dBm):			40.61		
		16QAM	1	0	21.51	21.95	21.93
			1	2	21.77	21.57	21.36
			1	5	21.97	21.71	21.33
			3	0	21.44	21.42	21.57
			3	1	21.84	21.54	21.62
			3	2	21.96	21.31	21.56
			6	0	20.79	20.63	20.71
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			18.42		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			20.57		
		EIRP Limit for IC (dBm):			40.61		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.50MHz
5	3	QPSK	1	0	22.61	22.60	22.37
			1	7	22.53	22.51	22.43
			1	14	22.58	22.50	22.19
			8	0	21.63	21.63	21.66
			8	4	21.69	21.69	21.59
			8	7	21.57	21.64	21.64
			15	0	21.78	21.76	21.77
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			19.06		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			21.21		
		EIRP Limit for IC (dBm):			40.61		
		16QAM	1	0	21.70	21.75	21.77
			1	7	21.64	22.02	20.91
			1	14	21.38	21.28	20.81
			8	0	20.67	20.75	20.82
			8	4	20.66	20.77	20.60
			8	7	20.32	20.54	20.61
			15	0	20.83	20.53	20.73
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			18.47		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			20.62		
		EIRP Limit for IC (dBm):			40.61		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).
ERP (dBm) = EIRP (dBm) - 2.15 (dB).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
5	5	QPSK	1	0	22.45	22.65	22.69
			1	12	22.54	22.47	22.43
			1	24	22.52	22.27	22.15
			12	0	21.60	21.66	21.51
			12	6	21.65	21.58	21.34
			12	11	21.75	21.63	21.32
			25	0	21.68	21.80	21.86
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			19.14		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			21.29		
		EIRP Limit for IC (dBm):			40.61		
		16QAM	1	0	21.61	22.12	22.24
			1	12	21.59	21.97	21.11
			1	24	22.06	21.74	21.25
			12	0	20.37	20.60	20.60
			12	6	20.70	20.41	20.52
			12	11	20.72	20.55	20.36
			25	0	20.55	20.74	20.91
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			18.69		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			20.84		
		EIRP Limit for IC (dBm):			40.61		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
5	10	QPSK	1	0	22.67	22.63	22.54
			1	24	22.63	22.25	22.41
			1	49	22.45	22.31	22.38
			25	0	21.91	21.46	21.52
			25	12	21.69	21.48	21.27
			25	24	21.25	21.40	21.24
			50	0	21.90	22.08	21.97
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			19.12		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			21.27		
		EIRP Limit for IC (dBm):			40.61		
		16QAM	1	0	21.26	21.79	21.42
			1	24	22.17	21.40	21.44
			1	49	21.09	21.12	21.02
			25	0	21.86	20.85	22.10
			25	12	21.83	20.61	20.89
			25	24	20.52	20.34	20.47
			50	0	21.09	21.30	21.24
		Antenna Gain(dBi):			-1.4		
		Max. ERP for FCC (dBm):			18.62		
		ERP Limit for FCC (dBm):			38.45		
		Max. EIRP for IC (dBm):			20.77		
		EIRP Limit for IC (dBm):			40.61		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).
ERP (dBm) = EIRP (dBm) - 2.15 (dB).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535.0MHz	2567.5MHz
7	5	QPSK	1	0	21.75	22.15	22.33
			1	12	21.63	22.13	22.16
			1	24	21.73	22.13	22.03
			12	0	21.92	21.02	22.36
			12	6	21.75	21.16	21.51
			12	11	21.85	21.27	21.43
			25	0	20.96	21.30	21.58
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			21.36		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	21.20	21.57	21.59
			1	12	20.95	21.20	21.36
			1	24	21.29	21.65	21.17
			12	0	19.93	20.50	20.52
			12	6	19.81	19.98	20.65
			12	11	19.89	20.24	20.47
			25	0	20.01	20.28	20.53
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			20.65		
		EIRP Limit (dBm):			33.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505.0MHz	2535.0MHz	2565.0MHz
7	10	QPSK	1	0	21.49	22.36	22.33
			1	24	22.10	22.42	22.36
			1	49	22.23	22.19	21.59
			25	0	21.87	21.11	22.42
			25	12	21.25	21.27	21.52
			25	24	21.26	21.20	21.30
			50	0	21.05	21.25	21.54
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			21.42		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	20.78	21.69	21.52
			1	24	21.40	21.83	21.83
			1	49	21.25	21.70	20.93
			25	0	21.08	20.48	21.65
			25	12	20.49	20.36	20.54
			25	24	20.31	20.47	20.34
			50	0	20.16	20.33	20.74
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			20.83		
		EIRP Limit (dBm):			33.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535.0MHz	2562.5MHz
7	15	QPSK	1	0	21.82	22.32	22.53
			1	37	22.36	22.33	22.35
			1	74	22.21	22.40	21.92
			36	0	21.18	21.31	22.61
			36	16	20.93	21.18	21.45
			36	35	21.25	21.25	21.58
			75	0	21.32	21.38	21.66
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			21.61		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	21.81	21.55	22.08
			1	37	21.74	21.30	21.20
			1	74	21.20	21.57	21.62
			36	0	20.32	20.45	21.83
			36	16	20.06	20.43	20.66
			36	35	20.36	20.32	20.49
			75	0	20.06	20.41	20.76
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			21.08		
		EIRP Limit (dBm):			33.00		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510.0MHz	2535.0MHz	2560.0MHz
7	20	QPSK	1	0	21.65	22.15	22.33
			1	49	22.68	22.32	22.32
			1	99	22.03	22.15	21.56
			50	0	22.19	21.11	22.46
			50	24	21.59	21.09	21.51
			50	49	21.30	21.19	21.23
			100	0	21.40	21.23	21.35
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			21.68		
		EIRP Limit (dBm):			33.00		
		16QAM	1	0	21.03	21.64	22.11
			1	49	22.32	20.95	21.36
			1	99	21.45	20.90	21.11
			50	0	20.38	20.32	21.67
			50	24	20.73	20.24	20.63
			50	49	20.38	20.21	20.46
			100	0	20.19	20.31	20.68
		Antenna Gain (dBi):			-1.0		
		Max. EIRP (dBm):			21.32		
		EIRP Limit (dBm):			33.00		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23017	23095	23173
					699.7MHz	707.5MHz	715.3MHz
12	1.4	QPSK	1	0	22.36	22.32	22.06
			1	2	22.25	22.46	22.32
			1	5	22.26	22.30	22.40
			3	0	21.28	21.32	21.27
			3	1	21.44	21.50	21.65
			3	2	21.21	21.37	21.63
			6	0	21.49	21.52	21.36
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.50		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.65		
		EIRP Limit for IC (dBm):			36.99		
		16QAM	1	0	21.43	21.62	21.06
			1	2	21.23	21.31	21.87
			1	5	21.19	21.37	21.78
			3	0	21.07	21.24	21.23
			3	1	21.46	21.40	21.66
			3	2	21.49	21.42	21.50
			6	0	20.51	20.45	20.39
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			17.72		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			19.87		
		EIRP Limit for IC (dBm):			36.99		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
12	3	QPSK	1	0	22.42	22.21	22.05
			1	7	22.18	22.25	22.78
			1	14	22.10	22.52	22.54
			8	0	21.58	21.71	22.18
			8	4	21.31	21.71	21.57
			8	7	21.15	21.64	21.64
			15	0	21.60	21.57	21.21
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.63		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.78		
		EIRP Limit for IC (dBm):			36.99		
		16QAM	1	0	21.39	21.07	21.18
			1	7	21.10	21.23	21.46
			1	14	20.95	21.55	21.62
			8	0	20.59	20.40	20.34
			8	4	20.42	20.34	20.60
			8	7	20.40	20.54	20.76
			15	0	20.45	20.50	20.55
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			17.47		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			19.62		
		EIRP Limit for IC (dBm):			36.99		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).
ERP (dBm) = EIRP (dBm) - 2.15 (dB).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
12	5	QPSK	1	0	22.25	22.00	22.30
			1	12	22.00	22.40	22.05
			1	24	22.88	22.50	22.26
			12	0	21.26	21.55	21.33
			12	6	20.93	21.47	21.23
			12	11	22.10	21.58	22.24
			25	0	21.60	21.17	21.22
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.73		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.88		
		EIRP Limit for IC (dBm):			36.99		
		16QAM	1	0	21.50	21.56	21.92
			1	12	20.76	21.71	21.40
			1	24	21.34	21.94	20.95
			12	0	20.51	20.44	20.47
			12	6	20.30	20.67	20.40
			12	11	20.31	20.56	20.63
			25	0	20.44	20.32	20.42
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			17.79		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			19.92		
		EIRP Limit for IC (dBm):			36.99		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz
12	10	QPSK	1	0	22.13	22.06	22.83
			1	24	22.42	22.34	22.22
			1	49	22.50	22.27	22.43
			25	0	21.29	22.07	21.58
			25	12	21.78	22.10	21.05
			25	24	22.18	21.39	20.60
			50	0	20.95	20.84	22.00
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.38		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.53		
		EIRP Limit for IC (dBm):			36.99		
		16QAM	1	0	21.74	21.04	20.87
			1	24	21.29	22.13	20.86
			1	49	22.68	20.64	21.25
			25	0	20.41	20.67	20.66
			25	12	20.86	21.00	20.40
			25	24	20.68	20.57	20.45
			50	0	20.47	20.48	21.26
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.53		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.68		
		EIRP Limit for IC (dBm):			36.99		

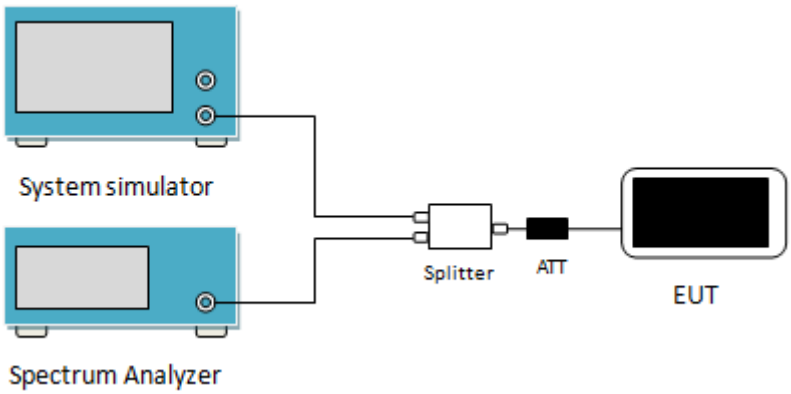
Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).
ERP (dBm) = EIRP (dBm) - 2.15 (dB).

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23755	23790	23825
					706.5MHz	710.0MHz	713.5MHz
17	5	QPSK	1	0	22.12	22.65	22.36
			1	12	22.72	22.36	22.26
			1	24	22.58	22.41	22.61
			12	0	21.74	21.61	21.60
			12	6	21.56	21.46	21.41
			12	11	21.81	21.33	21.98
			25	0	21.34	21.87	21.61
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.76		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.91		
		EIRP Limit for IC (dBm):			36.99		
		16QAM	1	0	21.34	22.20	21.90
			1	12	22.05	21.44	20.93
			1	24	22.42	20.94	21.75
			12	0	20.31	21.03	20.41
			12	6	20.47	20.45	20.53
			12	11	20.65	20.63	20.52
			25	0	20.50	20.97	20.42
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.27		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.42		
		EIRP Limit for IC (dBm):			36.99		

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23780	23790	23800
					709.0MHz	710.0MHz	711.0MHz
17	10	QPSK	1	0	22.66	22.63	22.70
			1	24	22.63	22.74	22.42
			1	49	22.03	22.34	22.63
			25	0	22.17	21.65	21.59
			25	12	21.68	21.52	21.15
			25	24	21.29	20.79	20.86
			50	0	21.96	22.23	22.09
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.59		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.74		
		EIRP Limit for IC (dBm):			36.99		
		16QAM	1	0	21.45	21.22	21.88
			1	24	22.36	21.54	21.42
			1	49	21.14	21.23	21.51
			25	0	21.30	21.10	20.55
			25	12	20.63	20.43	20.56
			25	24	20.34	20.60	20.67
			50	0	20.99	21.39	21.01
		Antenna Gain(dBi):			-2.0		
		Max. ERP for FCC (dBm):			18.21		
		ERP Limit for FCC (dBm):			34.77		
		Max. EIRP for IC (dBm):			20.36		
		EIRP Limit for IC (dBm):			36.99		

Note: EIRP (dBm) = Average power (dBm) + Antenna Gain (dBi).
ERP (dBm) = EIRP (dBm) - 2.15 (dB).

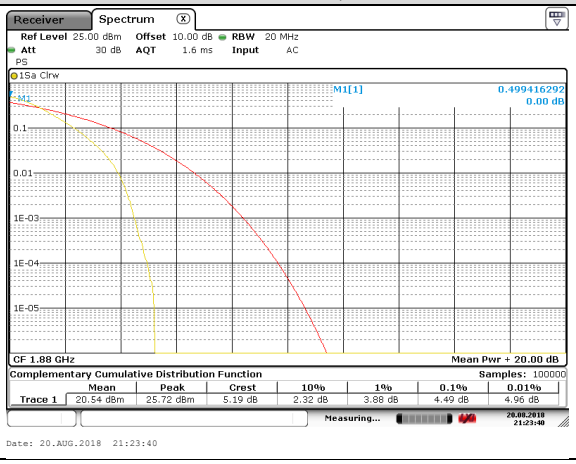
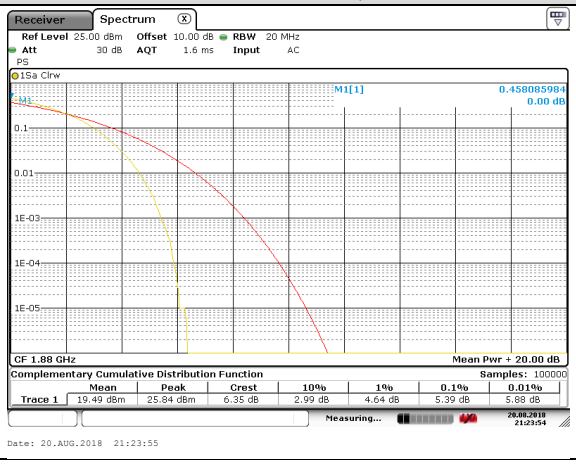
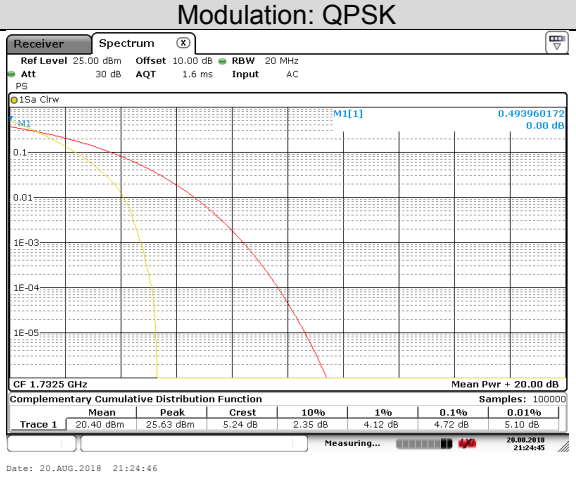
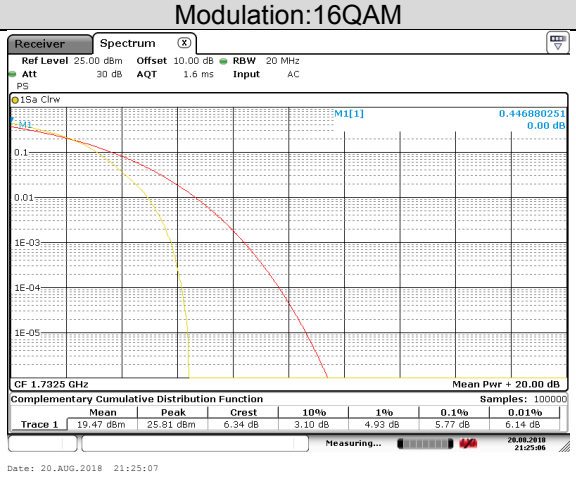
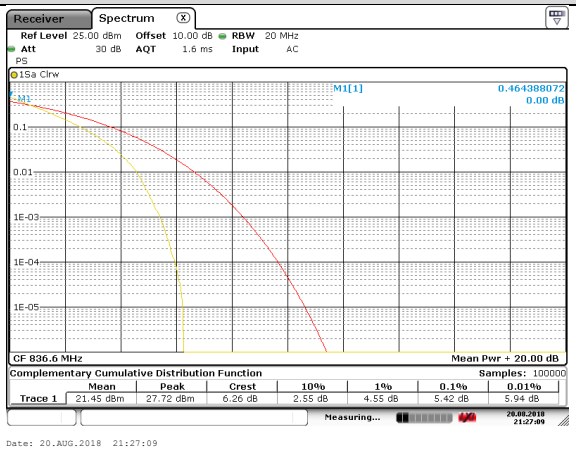
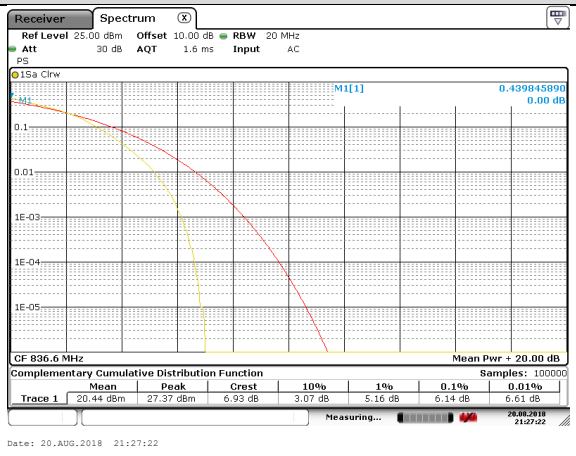
6.2 Peak-to-Average Ratio

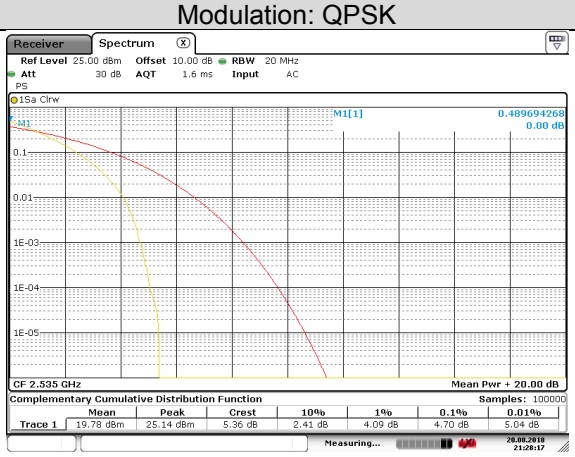
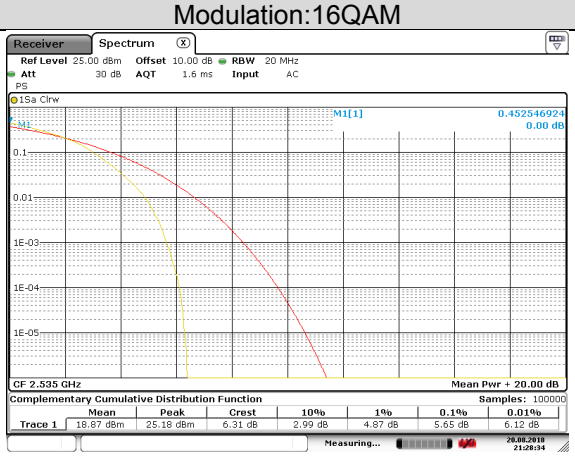
Test Requirement:	Part 24.232 (d), Part 27.50(d)(5) RSS-130 section 4.4, RSS-132 section 5.4, RSS-133 section 6.4 RSS-139 section 6.5, RSS-199 section 4.4
Test Method:	ANSI/TIA-603-D 2010
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, RBW ≥ OBW, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

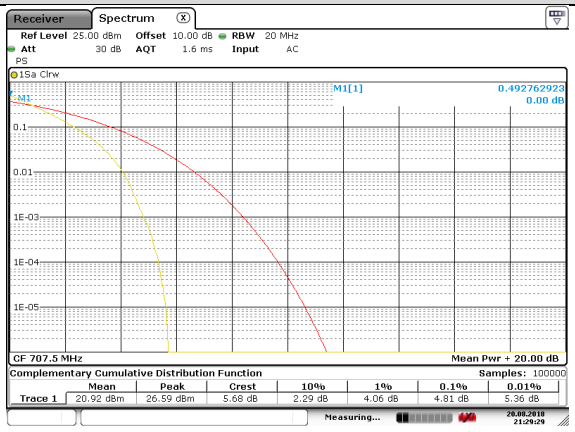
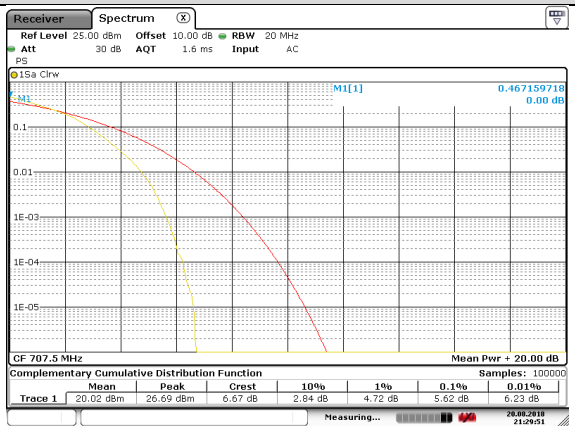
Measurement Data (Worst case):

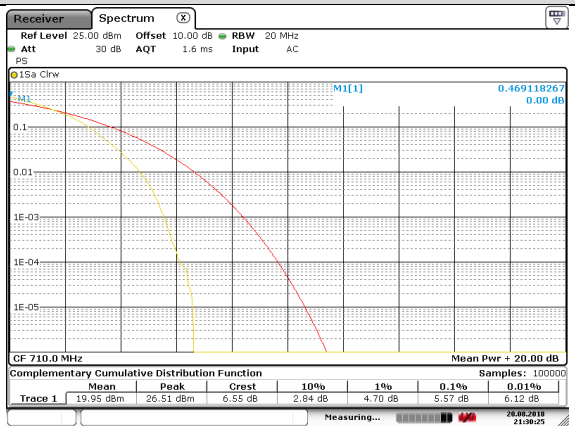
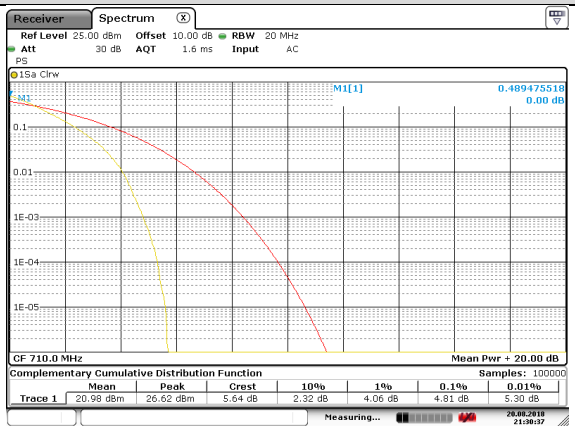
Bandwidth	Modulation	RB Size	RB Offset	PAPR
LTE Band 2 (Middle Channel)				
20MHz	QPSK	100	0	4.49
	16QAM	100	0	5.39
LTE Band 4 (Middle Channel)				
20MHz	QPSK	100	0	4.72
	16QAM	100	0	4.93
LTE Band 5 (Middle Channel)				
10MHz	QPSK	50	0	5.42
	16QAM	50	0	6.14
LTE Band 7 (Middle Channel)				
20MHz	QPSK	100	0	4.70
	16QAM	100	0	5.65
LTE Band 12 (Middle Channel)				
10MHz	QPSK	50	0	4.81
	16QAM	50	0	5.62
LTE Band 17 (Middle Channel)				
10MHz	QPSK	50	0	5.57
	16QAM	50	0	4.81

Test plots as below:

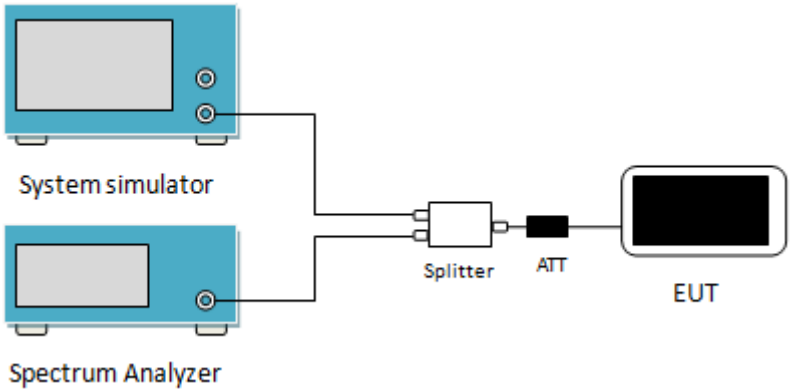
LTE Band 2 Middle channel	
Modulation: QPSK	Modulation:16QAM
	
LTE Band 4 Middle channel	
Modulation: QPSK	Modulation:16QAM
	
LTE Band 5 Middle channel	
Modulation: QPSK	Modulation:16QAM
	

LTE Band 7 Middle channel	
Modulation: QPSK	Modulation:16QAM
	
Date: 20.AUG.2018 21:28:18	Date: 20.AUG.2018 21:28:34

LTE Band 12 Middle channel	
Modulation: QPSK	Modulation:16QAM
	
Date: 20.AUG.2018 21:29:30	Date: 20.AUG.2018 21:29:52

LTE Band 17 Middle channel	
Modulation: QPSK	Modulation:16QAM
	
Date: 20.AUG.2018 21:30:25	Date: 20.AUG.2018 21:30:37

6.3 Occupy Bandwidth

Test Requirement:	Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h), Part 27.53(m), RSS-GEN section 6.6
Test Method:	RSS-GEN section 6.6, ANSI/TIA-603-D 2010
Test Setup:	
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

LTE Band 2					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	18607	1850.70	16QAM	1098	1296
			QPSK	1104	1296
	18900	1880.00	16QAM	1098	1290
			QPSK	1104	1296
	19193	1909.30	16QAM	1104	1320
			QPSK	1104	1278
3MHz	18615	1851.50	16QAM	2748	3036
			QPSK	2748	3084
	18900	1880.00	16QAM	2736	3024
			QPSK	2736	3072
	19185	1908.50	16QAM	2736	3012
			QPSK	2748	3084
5MHz	18625	1852.50	16QAM	4500	4900
			QPSK	4520	5000
	18900	1880.00	16QAM	4520	4940
			QPSK	4540	4960
	19175	1907.50	16QAM	4520	4980
			QPSK	4540	5020
10MHz	18650	1855.00	16QAM	9080	10160
			QPSK	9120	10160
	18900	1880.00	16QAM	9040	10080
			QPSK	9080	10200
	19150	1905.00	16QAM	9120	10120
			QPSK	9080	10320
15MHz	18675	1857.50	16QAM	13560	14640
			QPSK	13560	14700
	18900	1880.00	16QAM	13560	14580
			QPSK	13560	14700
	19125	1902.50	16QAM	13560	14760
			QPSK	13560	14940
20MHz	18700	1860.00	16QAM	18000	19360
			QPSK	17920	19520
	18900	1880.00	16QAM	17920	19200
			QPSK	18000	19280
	19100	1900.00	16QAM	17920	19200
			QPSK	18000	19520

LTE Band 4					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	19957	1710.7	16QAM	1098	1296
			QPSK	1104	1290
	20175	1732.5	16QAM	1098	1326
			QPSK	1104	1308
	20393	1754.3	16QAM	1098	1308
			QPSK	1104	1290
3MHz	19965	1711.5	16QAM	2736	3012
			QPSK	2736	3072
	20175	1732.5	16QAM	2736	2988
			QPSK	2736	3060
	20385	1750.5	16QAM	2736	3000
			QPSK	2748	3084
5MHz	19975	1712.5	16QAM	4500	4880
			QPSK	4520	4980
	20175	1732.5	16QAM	4520	4900
			QPSK	4540	5040
	20375	1752.5	16QAM	4520	4880
			QPSK	4520	4960
10MHz	20000	1715.0	16QAM	9120	10080
			QPSK	9120	10160
	20175	1732.5	16QAM	9040	10120
			QPSK	9120	10120
	20350	1750.0	16QAM	9080	9960
			QPSK	9040	10200
15MHz	20025	1717.5	16QAM	13500	14520
			QPSK	13560	14640
	20175	1732.5	16QAM	13500	14520
			QPSK	13560	14760
	20325	1747.5	16QAM	13500	14700
			QPSK	13560	14880
20MHz	20050	1720.0	16QAM	18000	19200
			QPSK	18000	19440
	20175	1732.5	16QAM	17920	19200
			QPSK	18000	19360
	20300	1745.0	16QAM	17920	19040
			QPSK	18000	19440

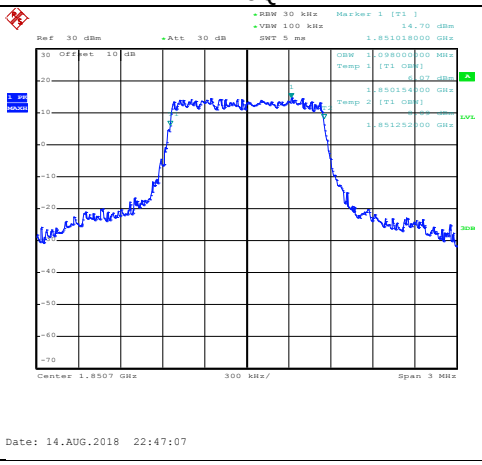
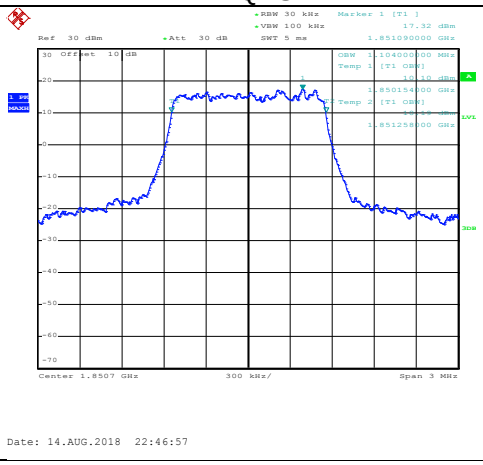
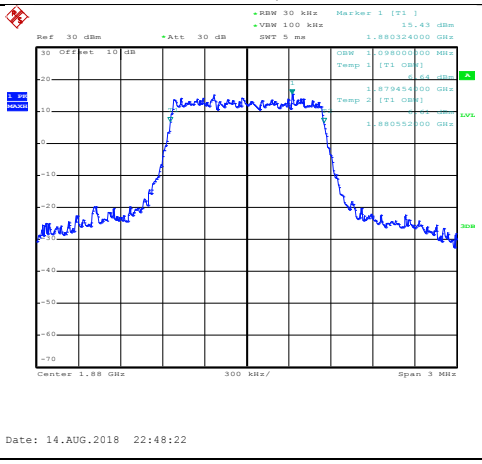
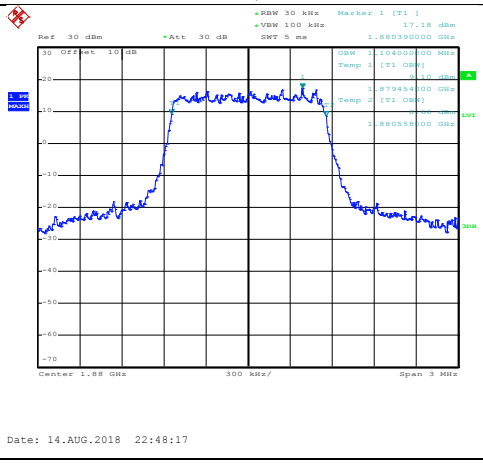
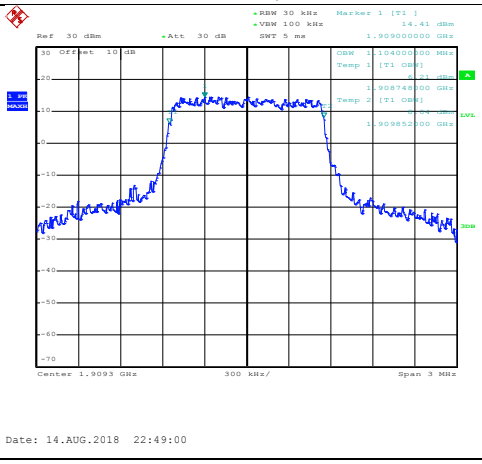
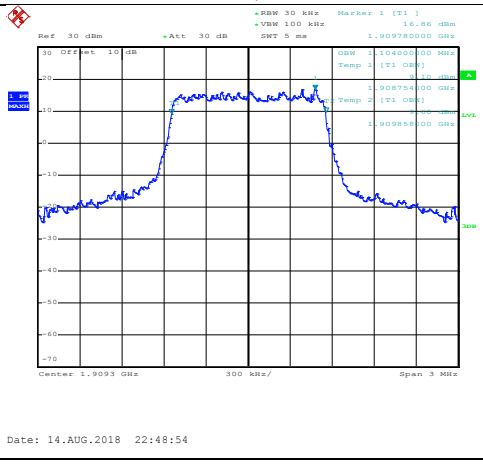
TE Band 5					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	20407	824.7	16QAM	1098	1272
			QPSK	1098	1284
	20525	836.5	16QAM	1098	1272
			QPSK	1104	1278
	20643	848.3	16QAM	1092	1278
			QPSK	1098	1272
3MHz	20415	825.5	16QAM	2724	3000
			QPSK	2748	3072
	20525	836.50	16QAM	2736	3000
			QPSK	2736	3048
	20635	847.50	16QAM	2724	3000
			QPSK	2748	3048
5MHz	20425	826.50	16QAM	4500	4940
			QPSK	4500	4940
	20525	836.50	16QAM	4500	4820
			QPSK	4540	5040
	20625	846.50	16QAM	4500	4860
			QPSK	4520	4980
10MHz	20450	829.00	16QAM	9040	9960
			QPSK	9040	10160
	20525	836.50	16QAM	9120	10000
			QPSK	9080	10240
	20600	844.00	16QAM	9000	9960
			QPSK	9040	10240

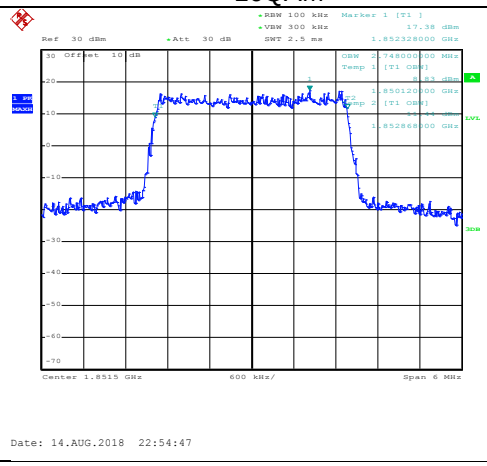
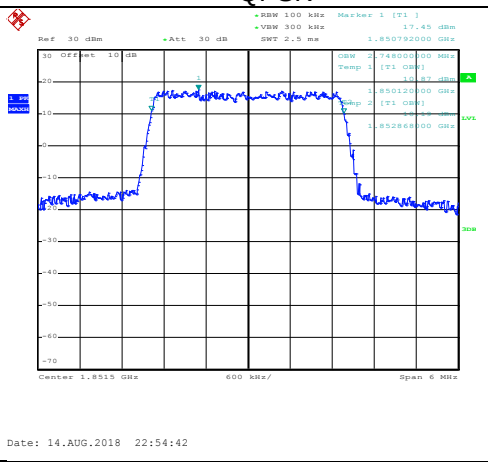
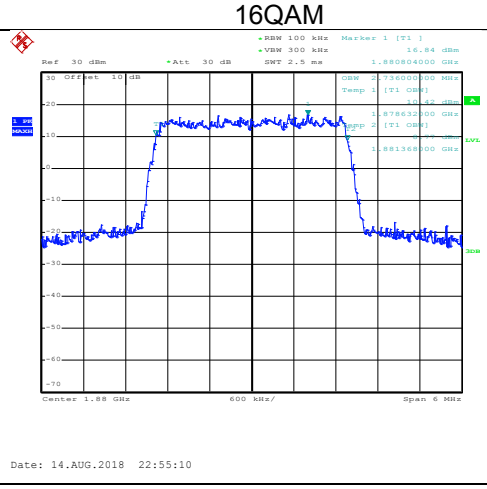
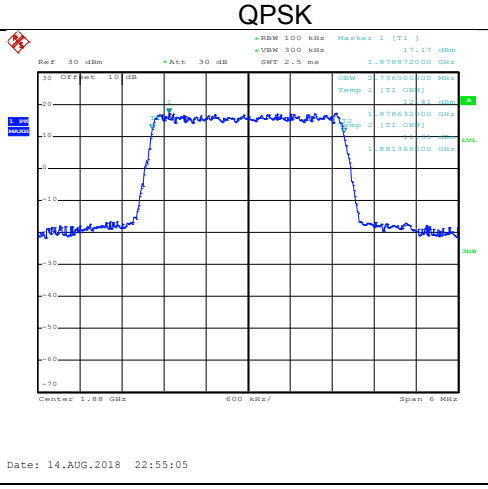
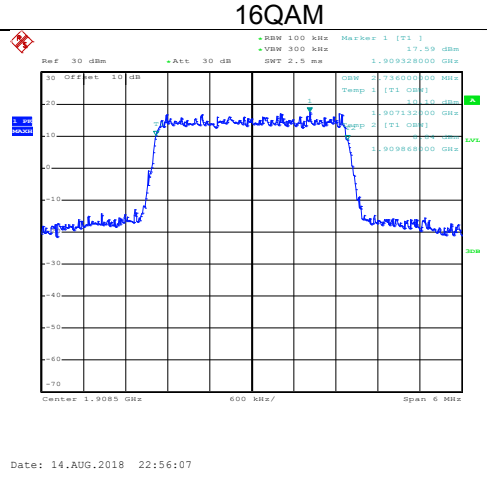
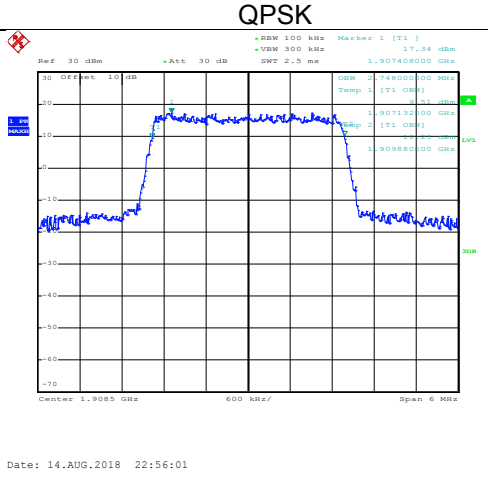
LTE Band 7					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
5MHz	20775	2502.5	16QAM	4480	4920
			QPSK	4520	5000
	21100	2535.0	16QAM	4520	4900
			QPSK	4540	5000
	21425	2567.5	16QAM	4520	4900
			QPSK	4520	4980
10MHz	20800	2505.0	16QAM	9080	10040
			QPSK	9080	10240
	21100	2535.0	16QAM	9120	10080
			QPSK	9120	10160
	21400	2565.0	16QAM	9080	10200
			QPSK	9120	10240
15MHz	20825	2507.5	16QAM	13500	14760
			QPSK	13560	14880
	21100	2535.0	16QAM	13560	14820
			QPSK	13560	14820
	21375	2562.5	16QAM	13500	14640
			QPSK	13500	14700
20MHz	20850	2510.0	16QAM	17920	19200
			QPSK	17920	19520
	21100	2535.0	16QAM	17920	19120
			QPSK	18000	19360
	21350	2560.0	16QAM	17920	19360
			QPSK	18080	19520

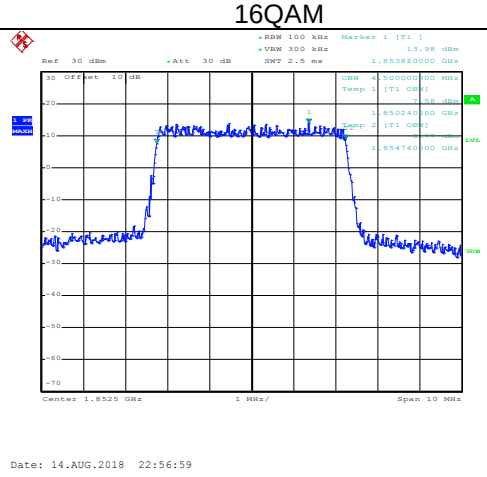
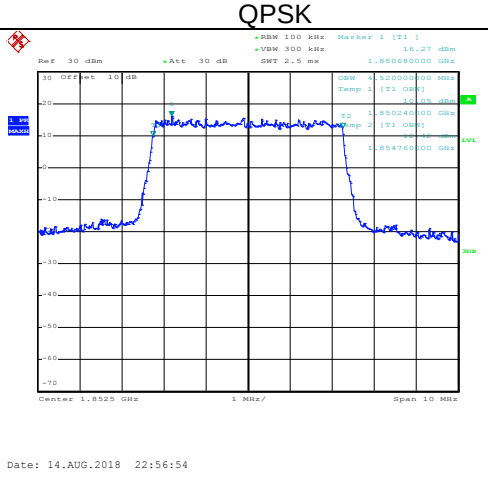
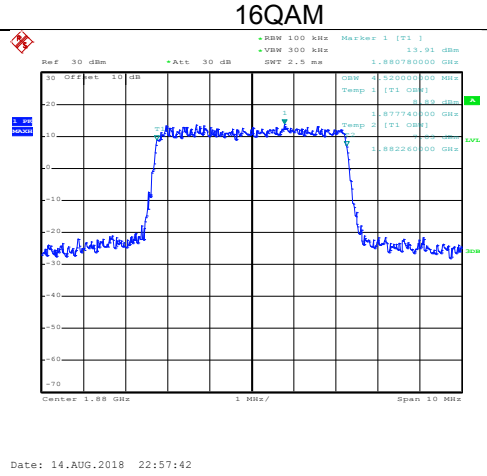
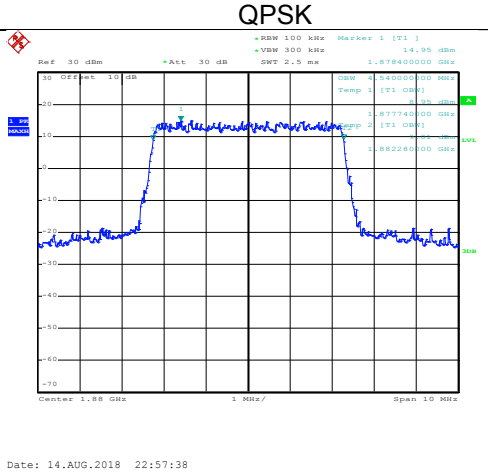
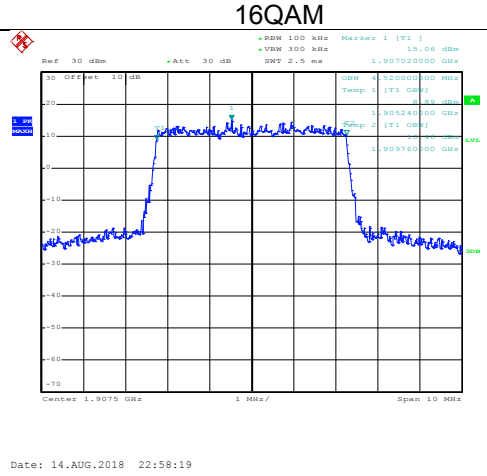
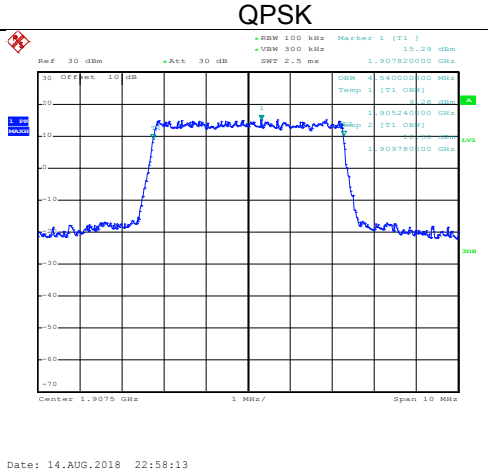
LTE Band 12					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	23017	699.7	16QAM	1098	1290
			QPSK	1104	1254
	23095	707.5	16QAM	1092	1260
			QPSK	1098	1278
	23173	715.3	16QAM	1098	1284
			QPSK	1104	1260
3MHz	23025	700.5	16QAM	2724	3000
			QPSK	2748	3072
	23095	707.5	16QAM	2736	2988
			QPSK	2736	3084
	23165	714.5	16QAM	2724	3000
			QPSK	2748	3048
5MHz	23035	701.5	16QAM	4500	4920
			QPSK	4540	5000
	23095	707.5	16QAM	4480	4860
			QPSK	4520	4960
	23155	713.5	16QAM	4520	4880
			QPSK	4520	5000
10MHz	23060	704.0	16QAM	9120	10000
			QPSK	9120	10240
	23095	707.5	16QAM	9000	10000
			QPSK	9040	10120
	23130	711.0	16QAM	9120	10120
			QPSK	9080	10160

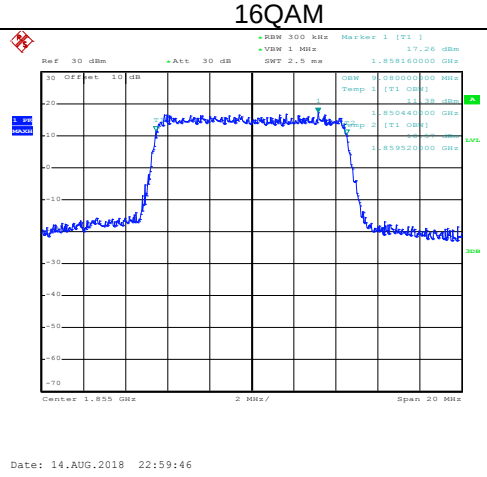
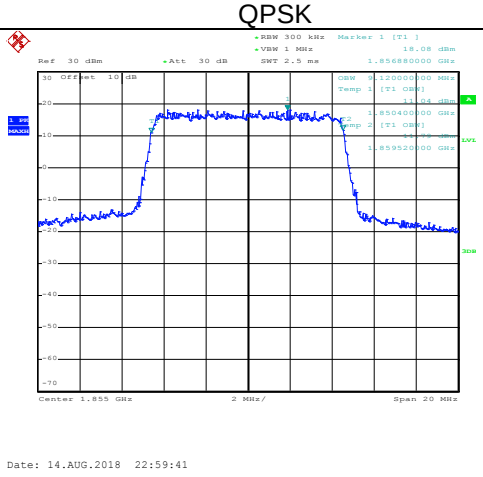
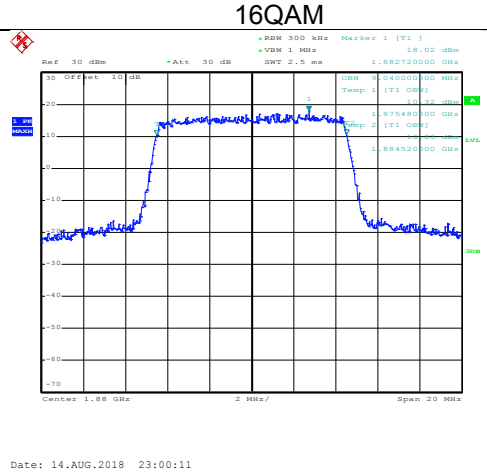
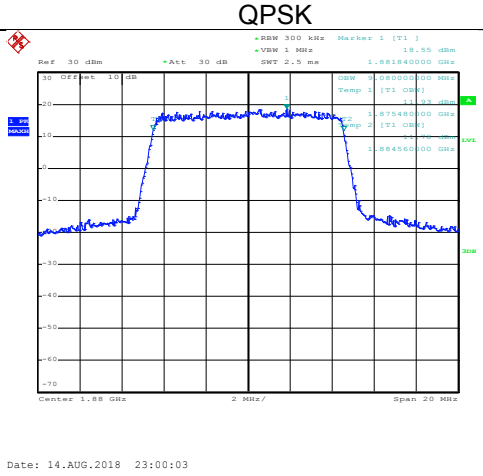
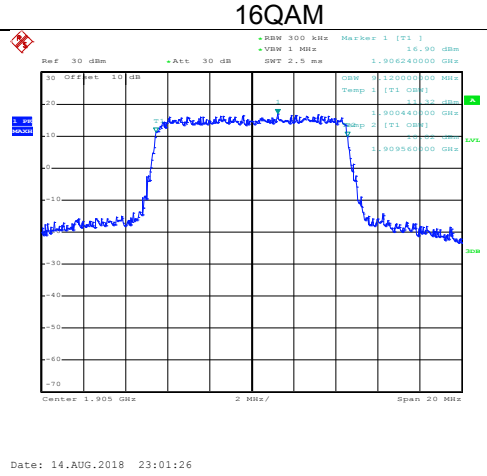
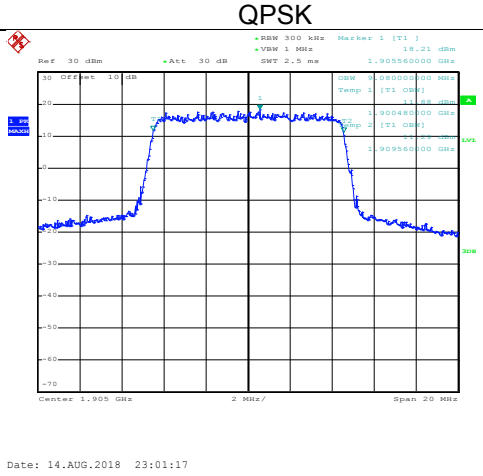
LTE Band 17					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
5MHz	23755	706.5	16QAM	4480	4820
			QPSK	4520	5000
	23790	710.0	16QAM	4500	4860
			QPSK	4520	4980
	23825	713.5	16QAM	4500	4900
			QPSK	4520	5020
10MHz	23780	709.0	16QAM	9140	9960
			QPSK	9040	10080
	23790	710.0	16QAM	9080	10040
			QPSK	9040	10200
	23130	711.0	16QAM	9120	10000
			QPSK	9080	10200

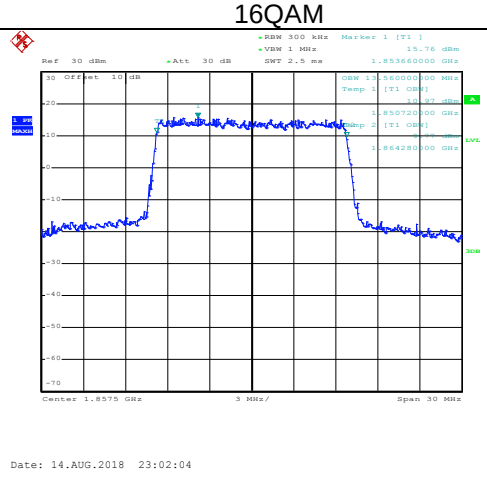
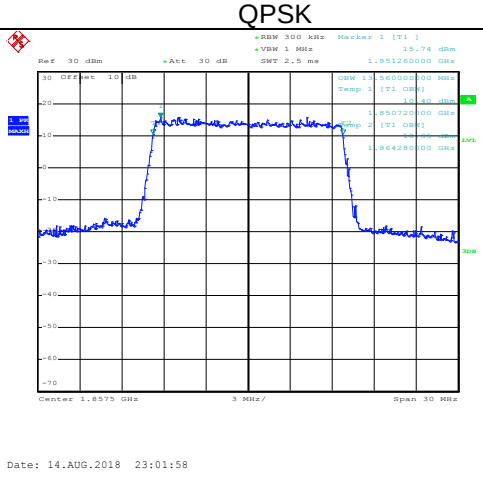
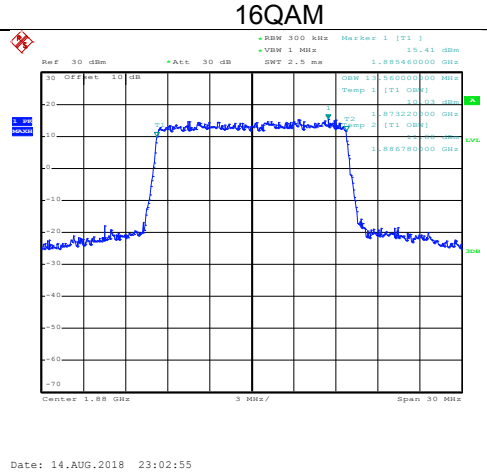
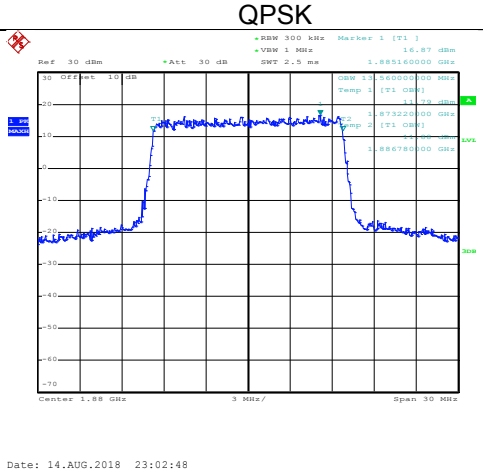
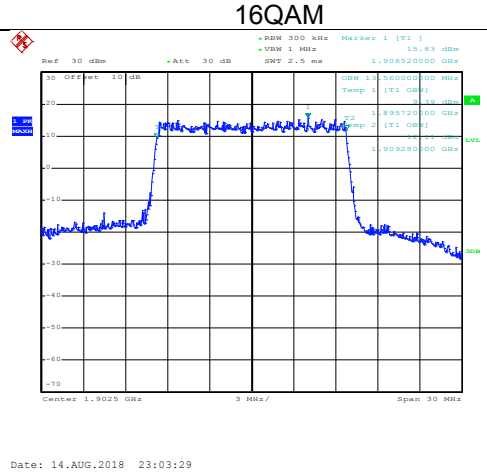
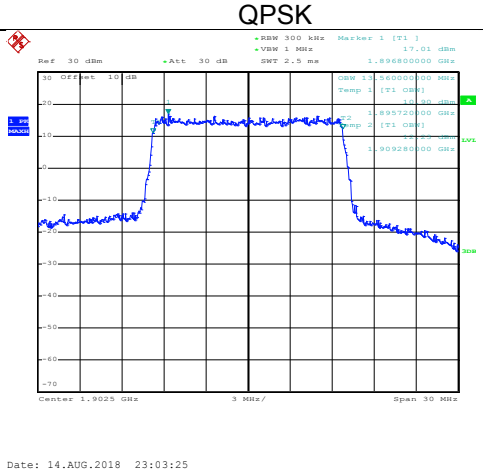
Test plot as follows:
LTE Band 2 part:

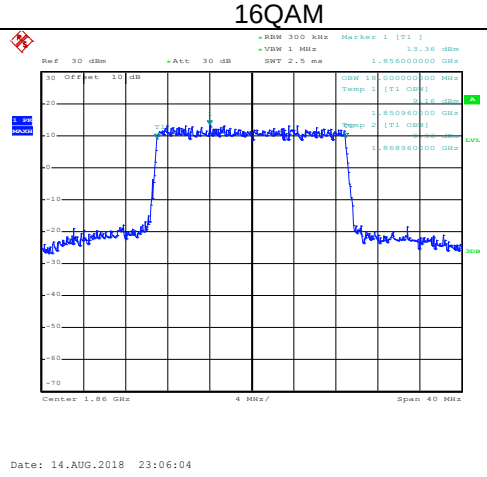
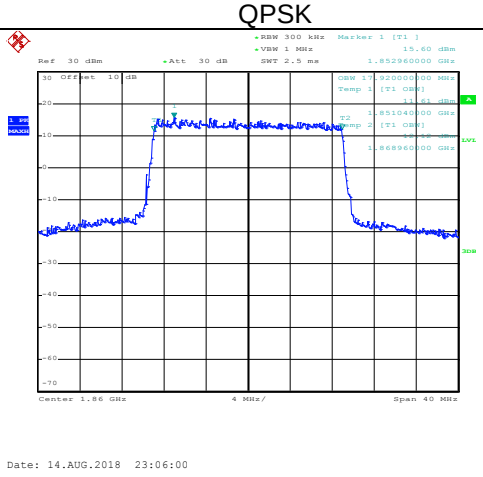
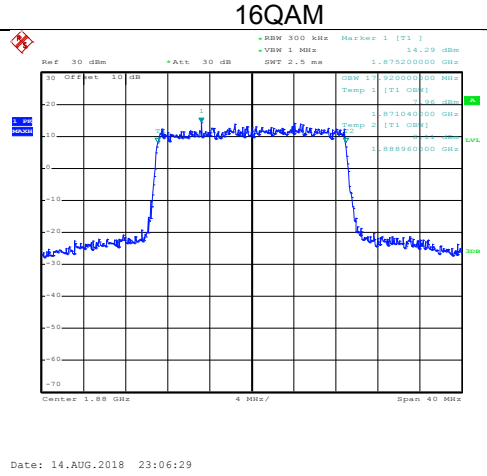
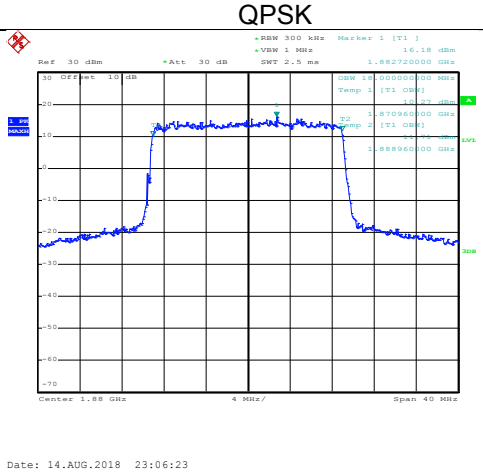
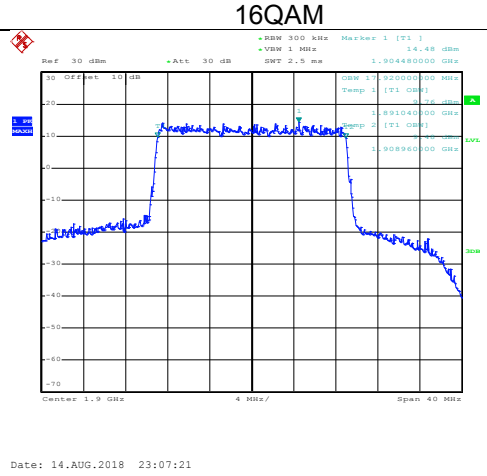
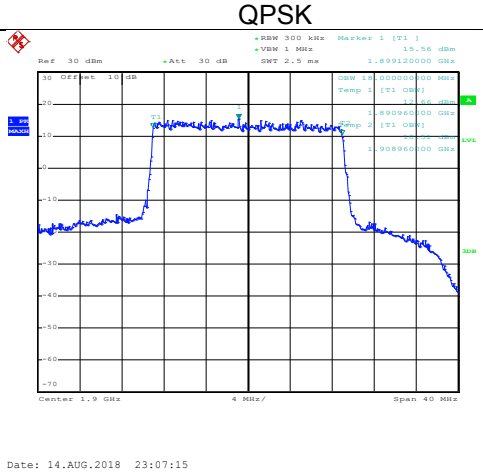
LTE Band 2: 99% Occupy bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

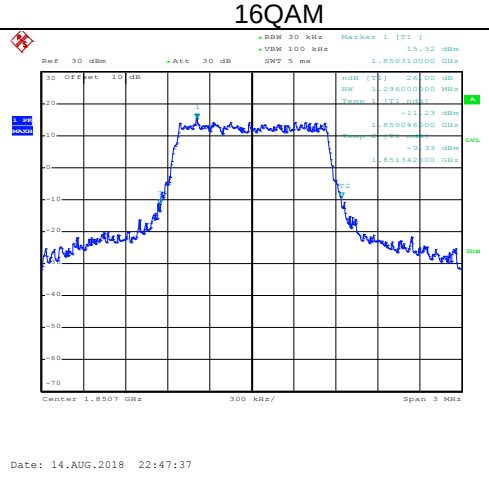
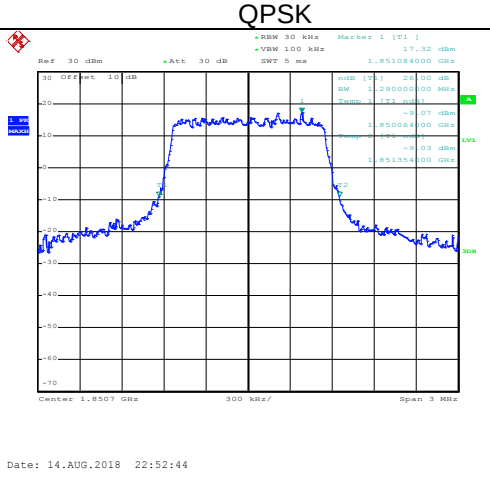
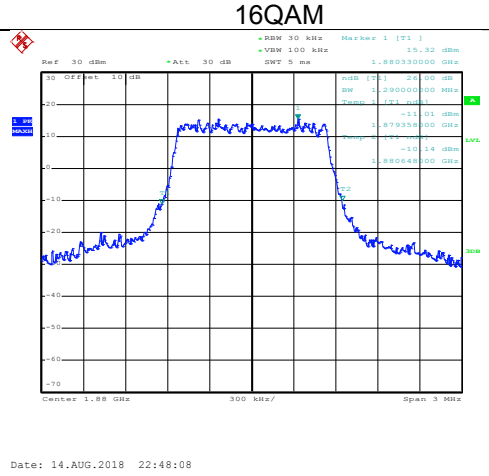
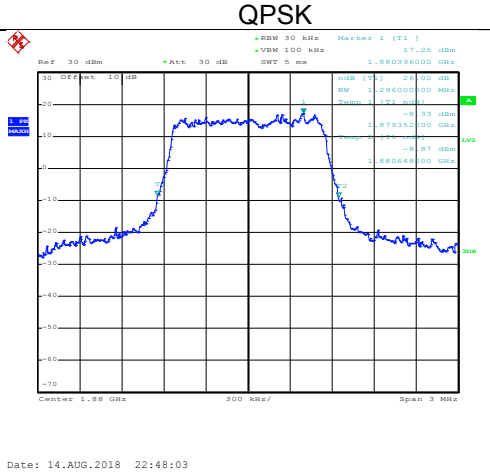
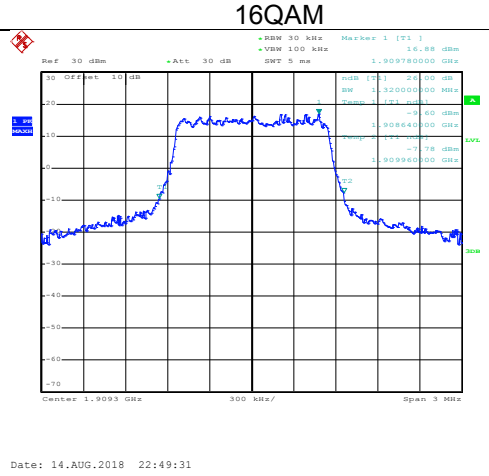
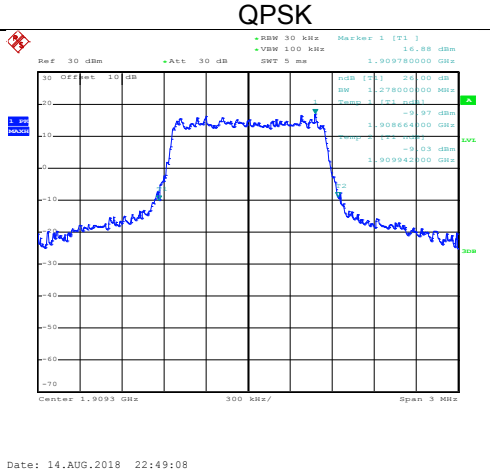
LTE Band 2: 99% Occupy bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

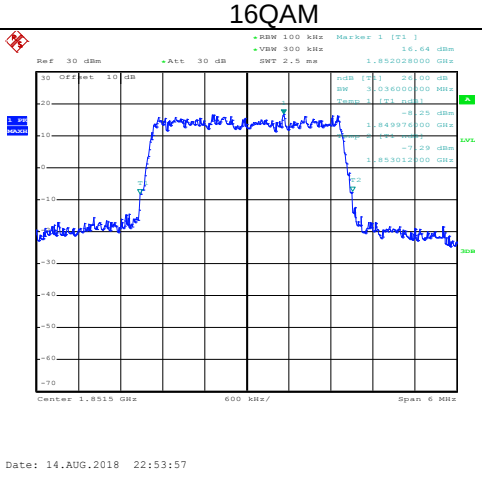
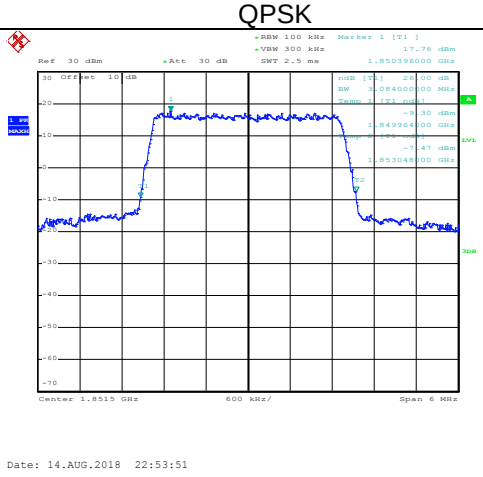
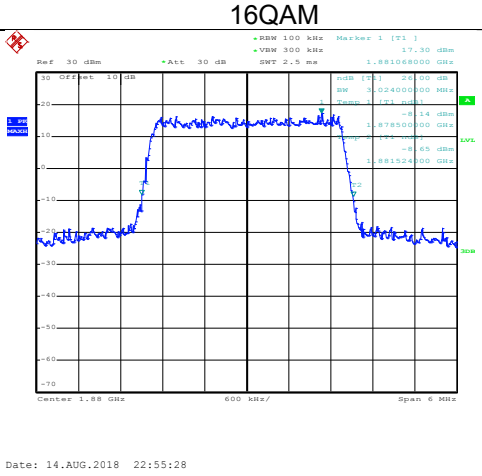
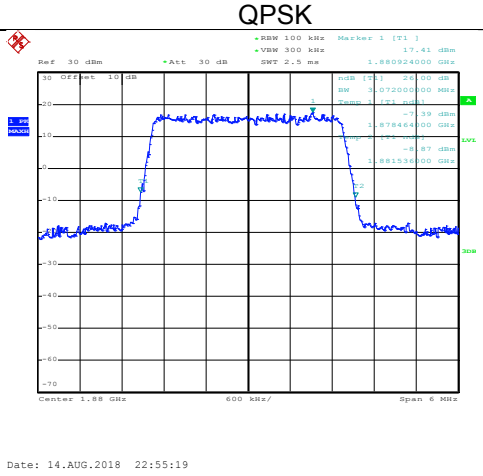
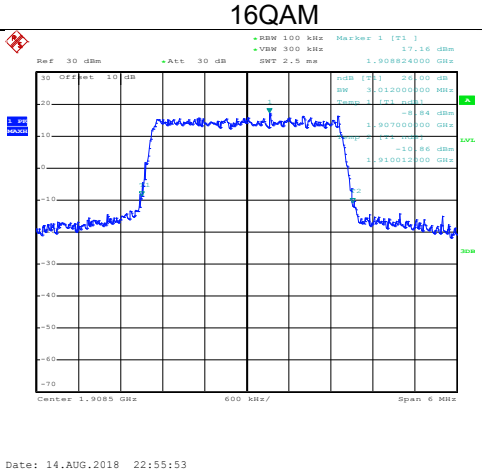
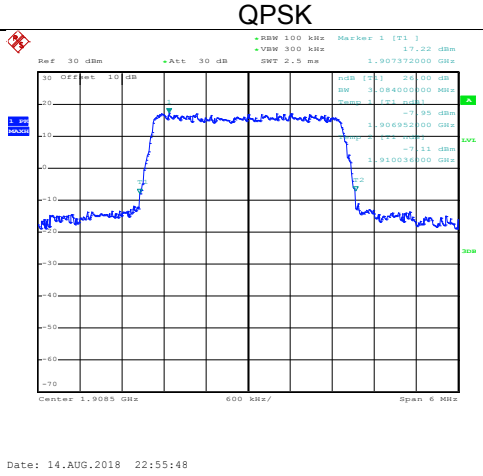
LTE Band 2: 99% Occupy bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

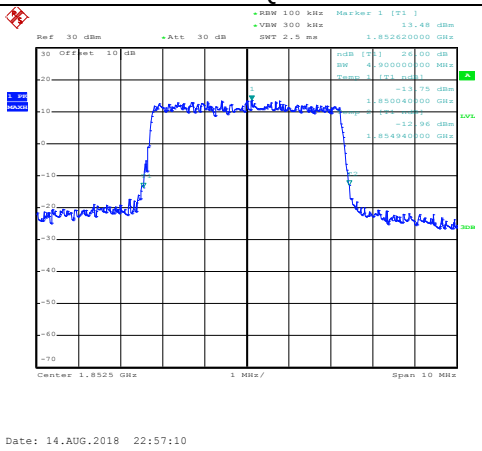
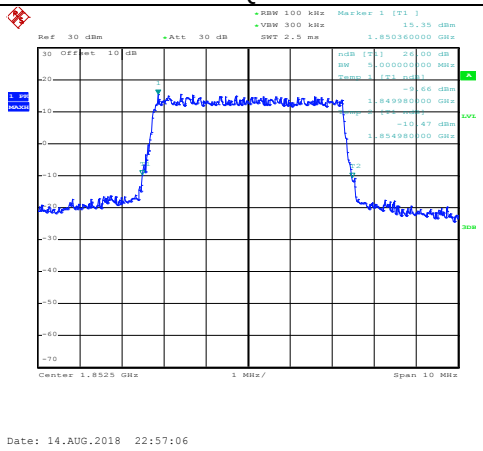
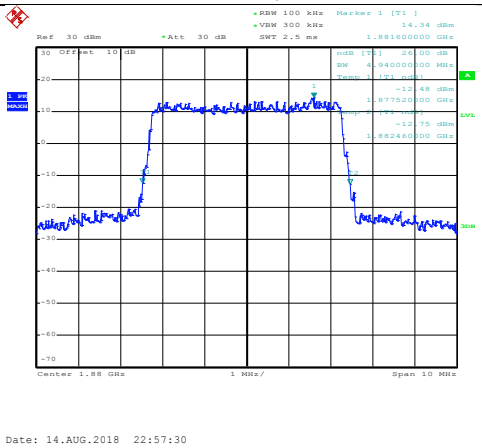
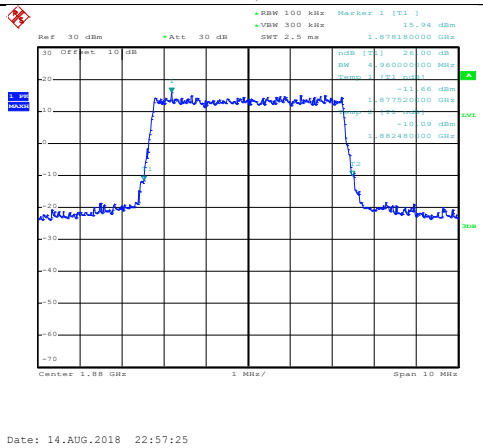
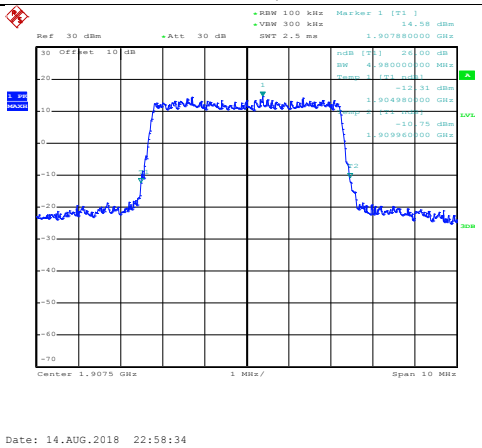
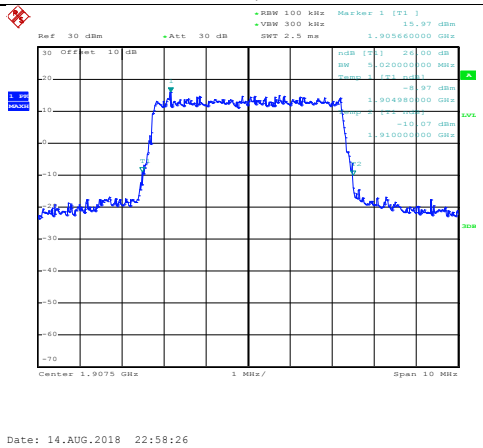
LTE Band 2: 99% Occupy bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

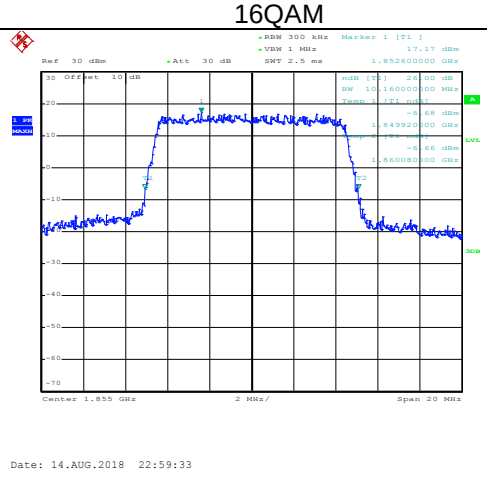
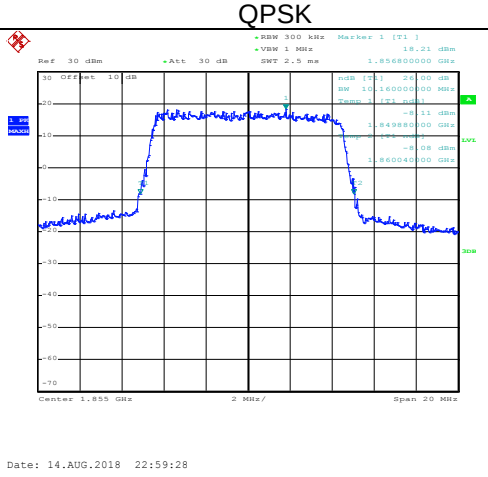
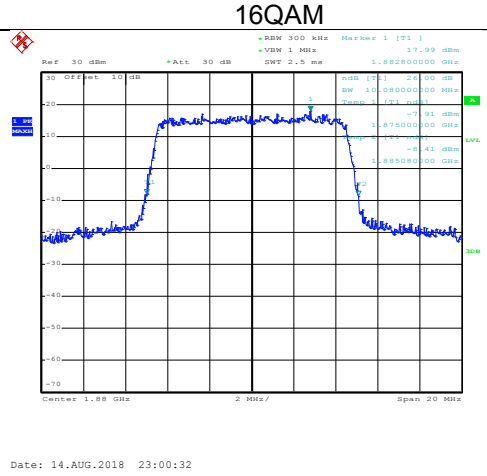
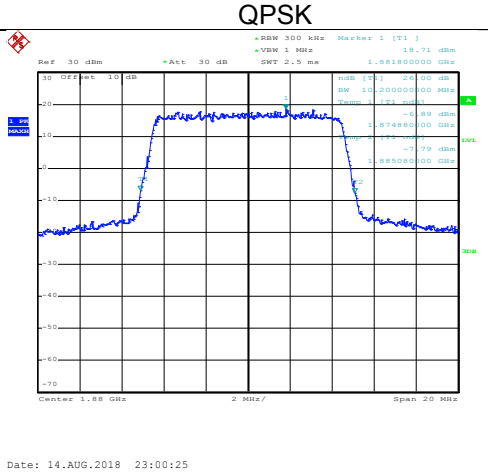
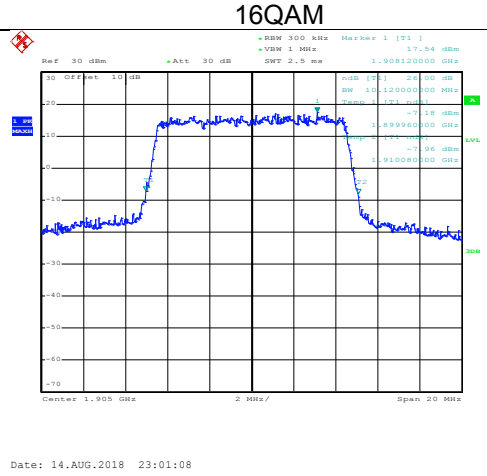
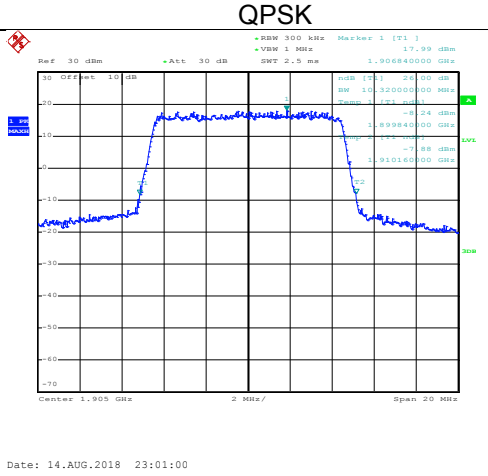
LTE Band 2: 99% Occupy bandwidth	
BW: 15MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

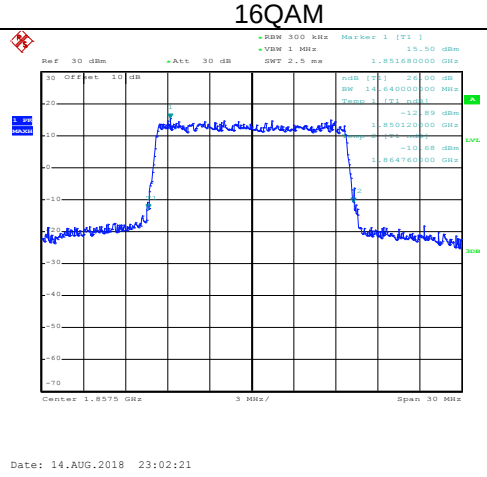
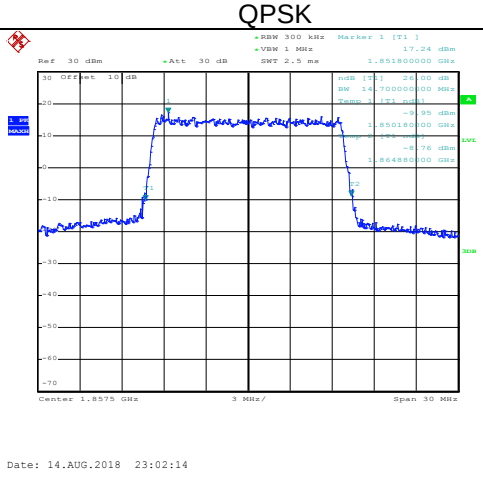
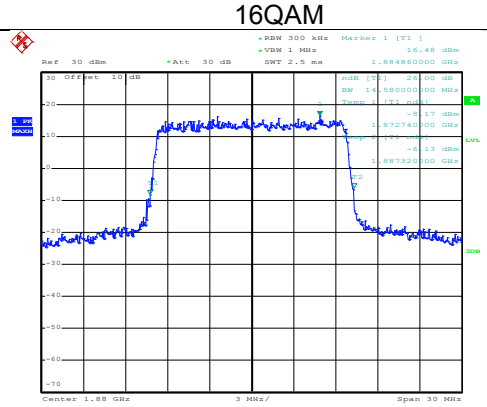
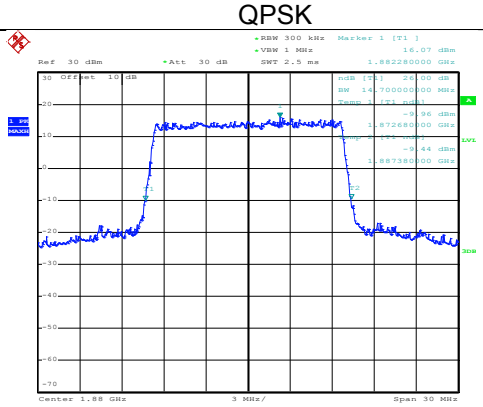
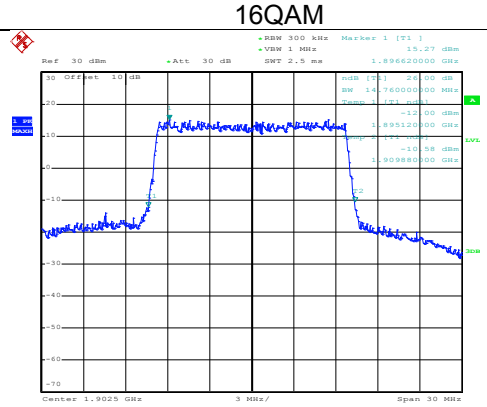
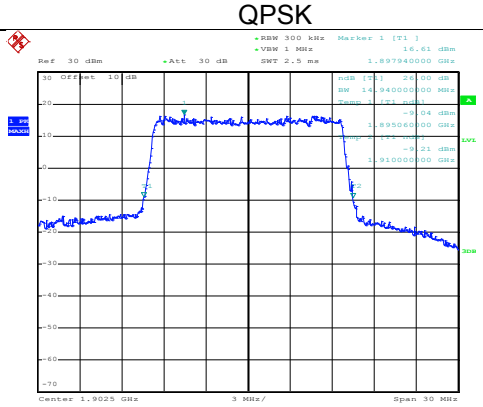
LTE Band 2: 99% Occupy bandwidth	
BW: 20MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

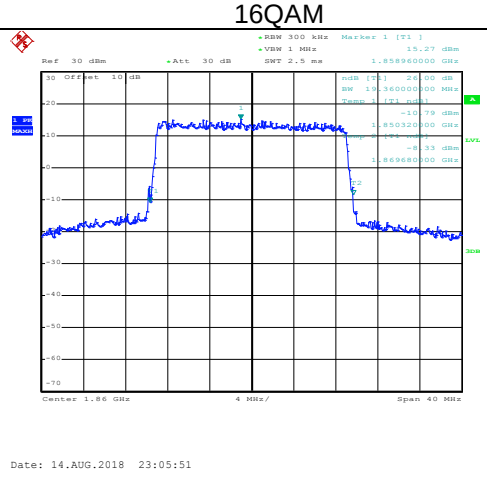
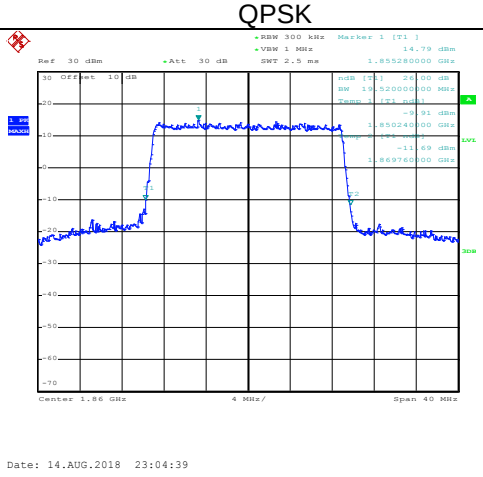
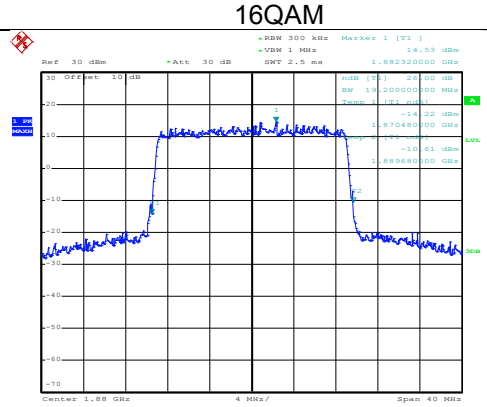
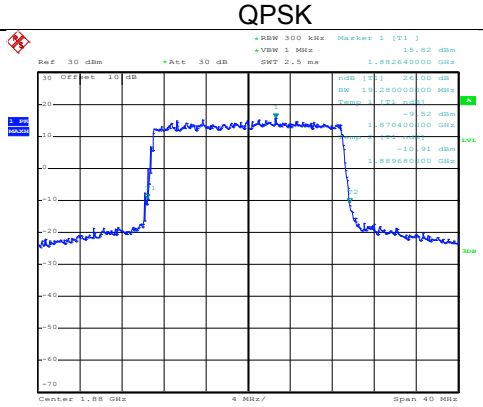
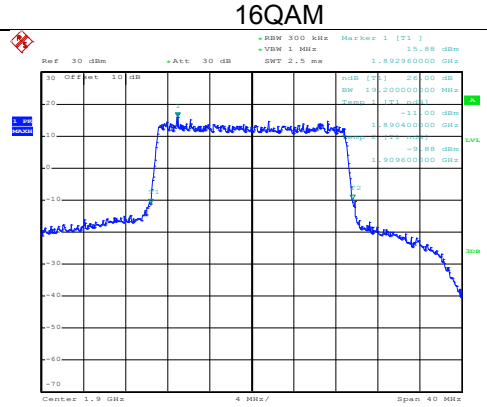
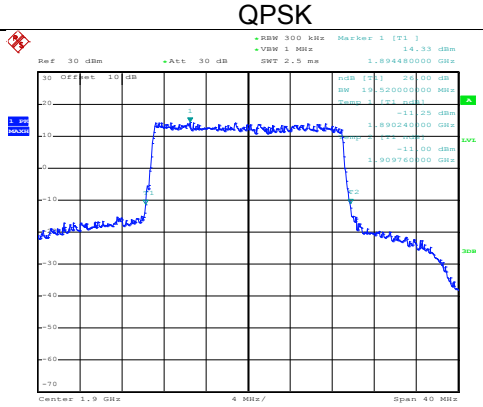
LTE Band 2: -26dBc bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 22:47:37	Date: 14.AUG.2018 22:52:44
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 22:48:08	Date: 14.AUG.2018 22:48:03
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 22:49:31	Date: 14.AUG.2018 22:49:08
Highest channel	

LTE Band 2: -26dBc bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

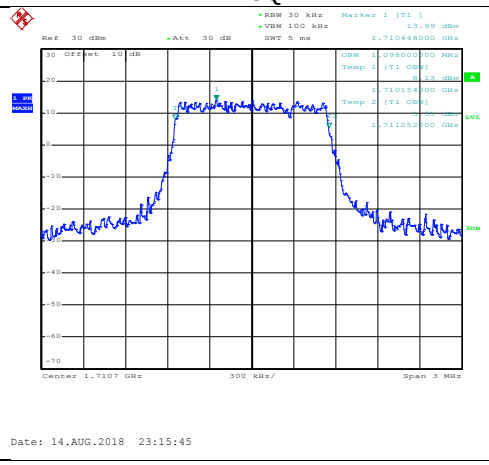
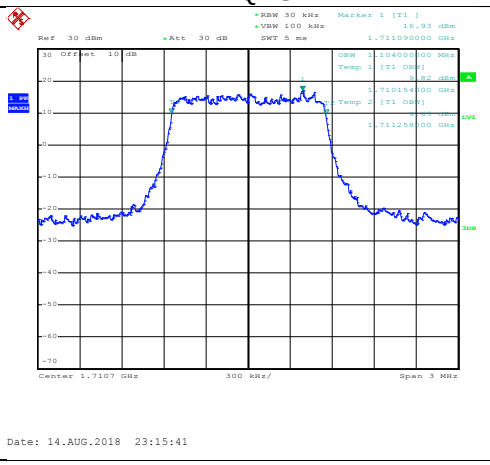
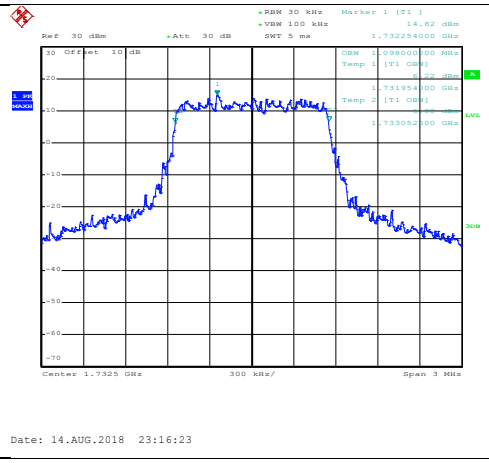
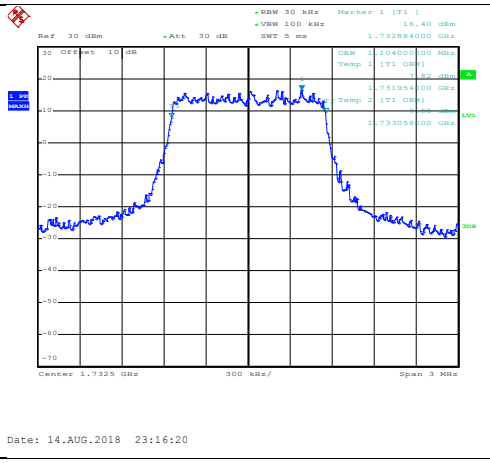
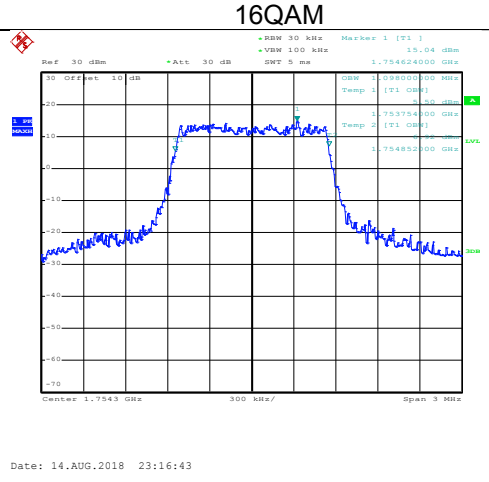
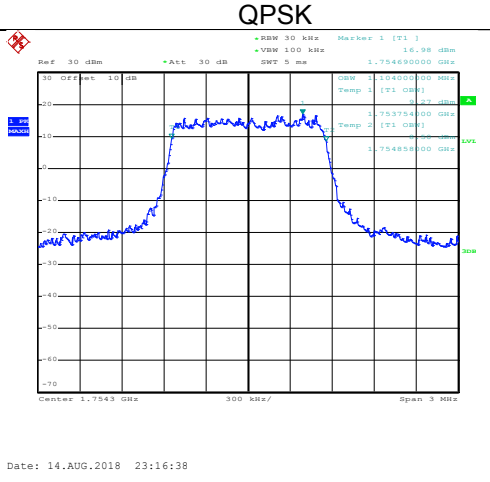
LTE Band 2: -26dBc bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

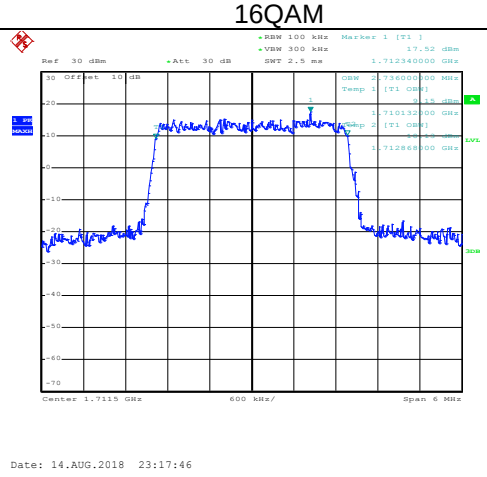
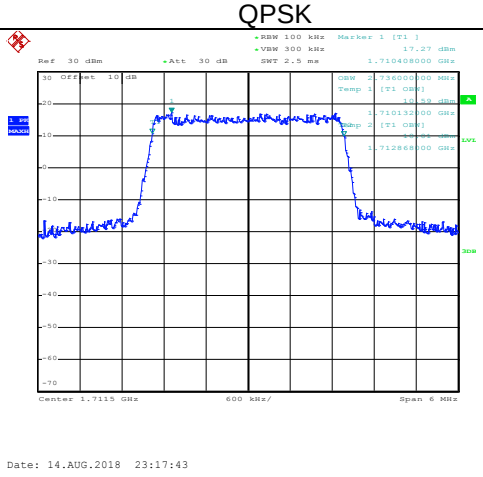
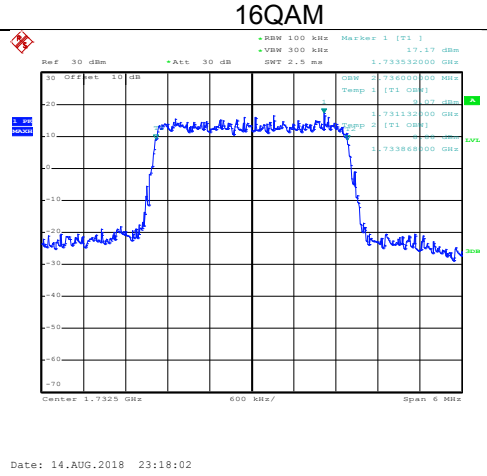
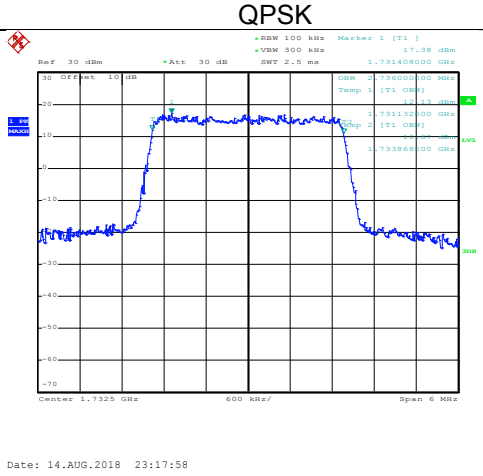
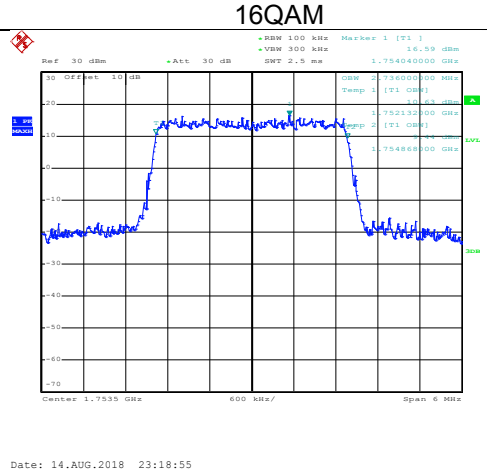
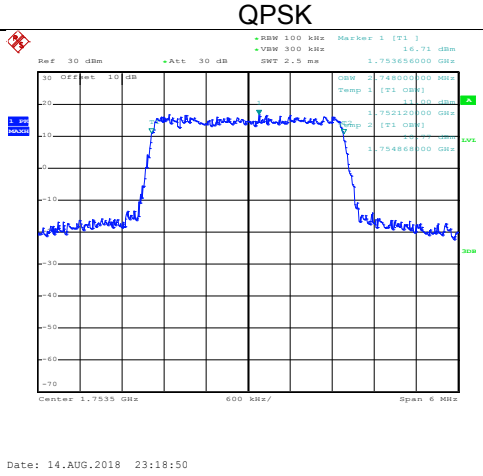
LTE Band 2: -26dBc bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 22:59:33	Date: 14.AUG.2018 22:59:28
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:00:32	Date: 14.AUG.2018 23:00:25
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:01:08	Date: 14.AUG.2018 23:01:00
Highest channel	

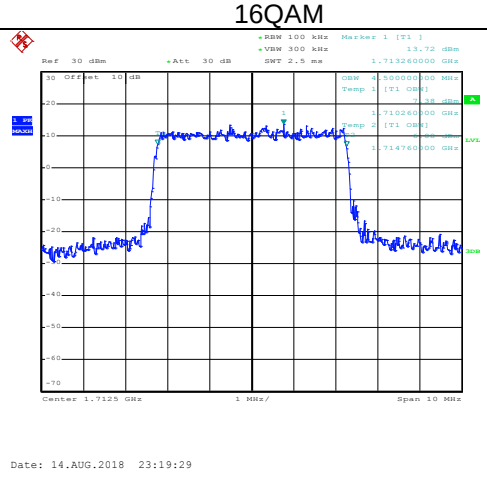
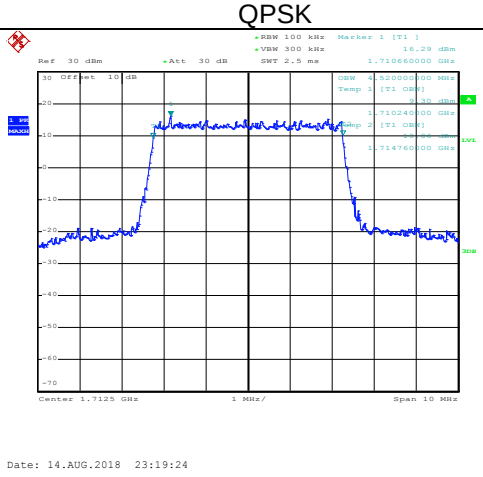
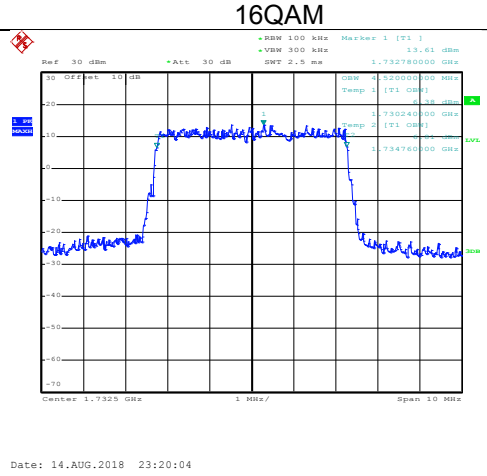
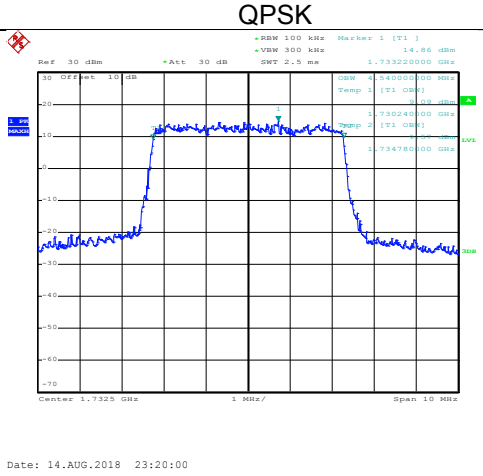
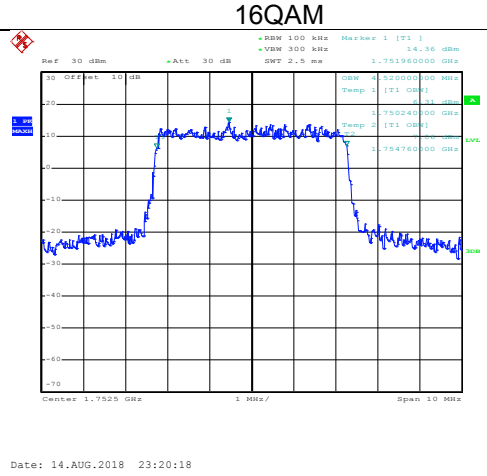
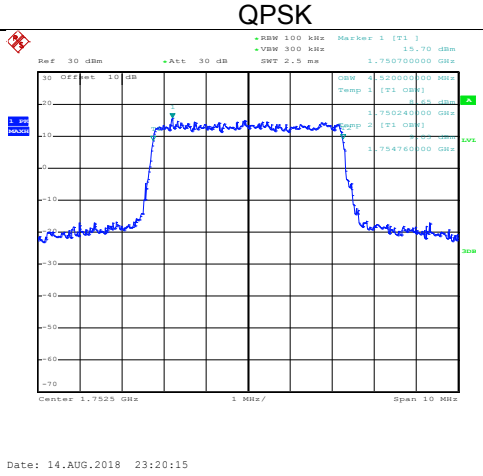
LTE Band 2: -26dBc bandwidth	
BW: 15MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:02:21	Date: 14.AUG.2018 23:02:14
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:02:41	Date: 14.AUG.2018 23:02:36
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:03:47	Date: 14.AUG.2018 23:03:41
Highest channel	

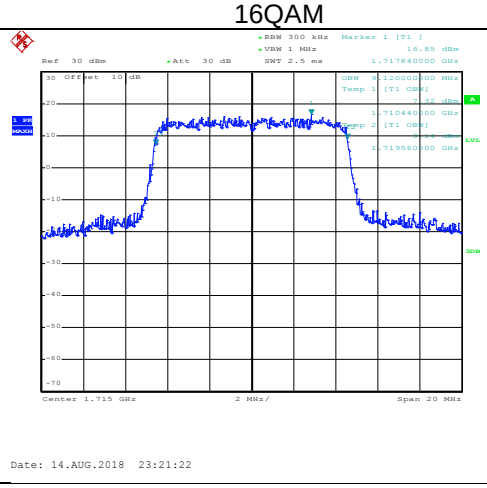
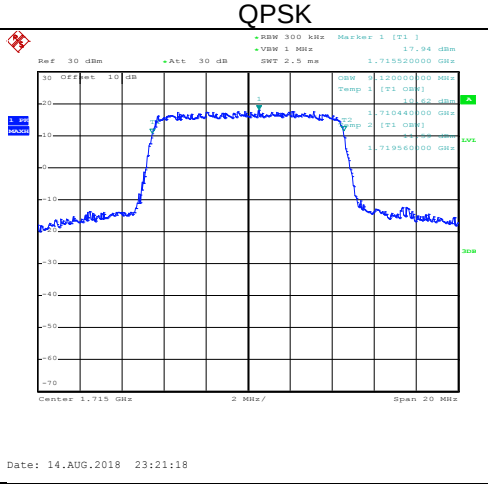
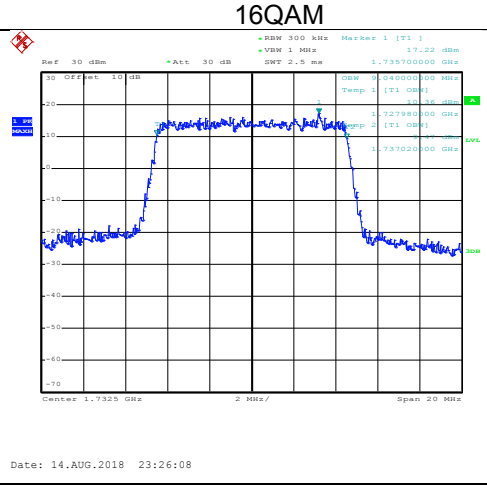
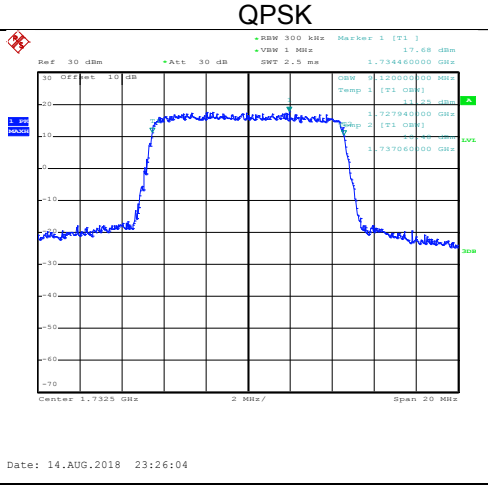
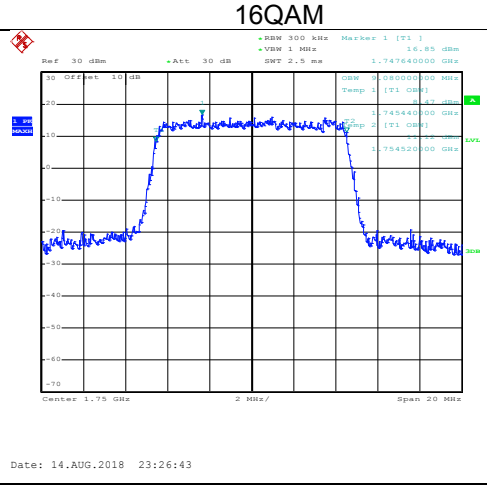
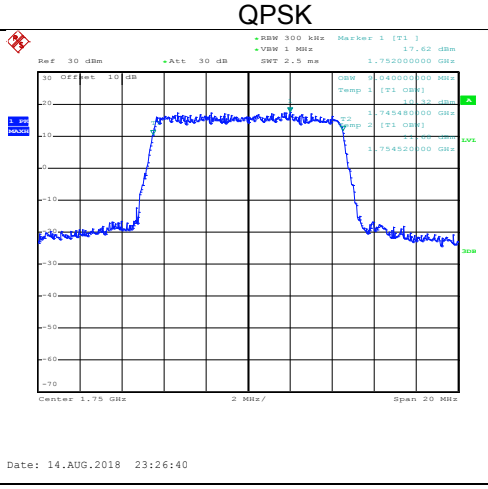
LTE Band 2: -26dBc bandwidth	
BW: 20MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:05:51	Date: 14.AUG.2018 23:04:39
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:06:43	Date: 14.AUG.2018 23:06:39
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:07:08	Date: 14.AUG.2018 23:07:00
Highest channel	

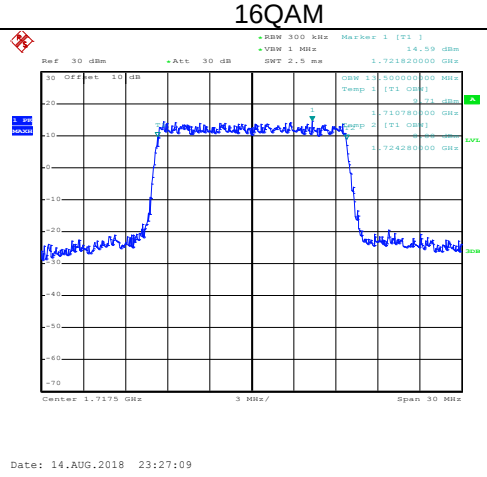
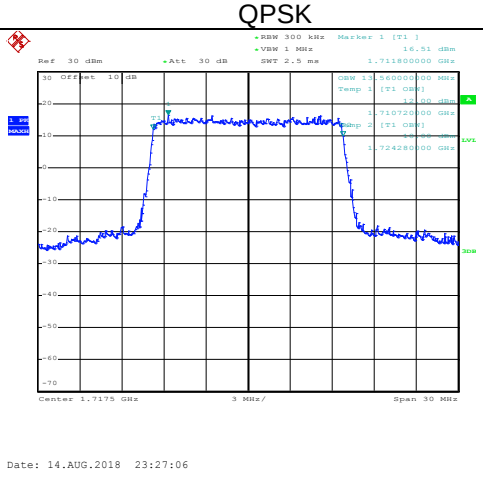
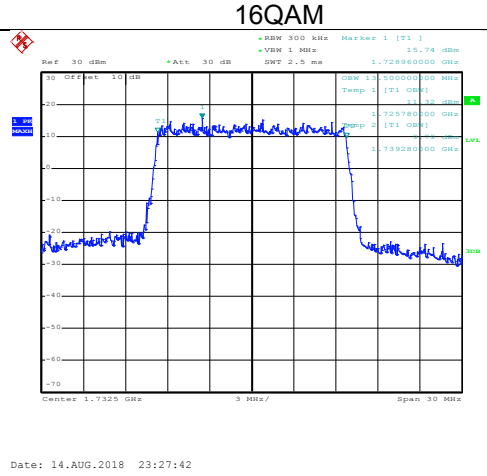
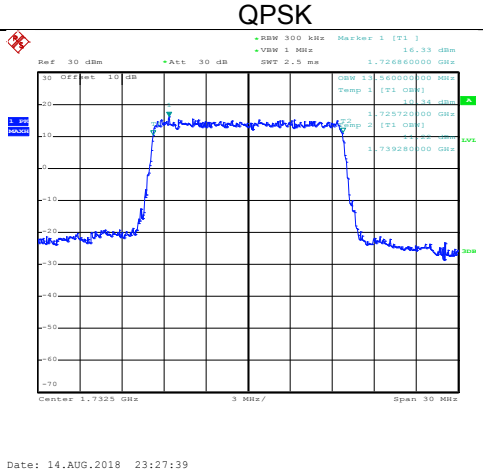
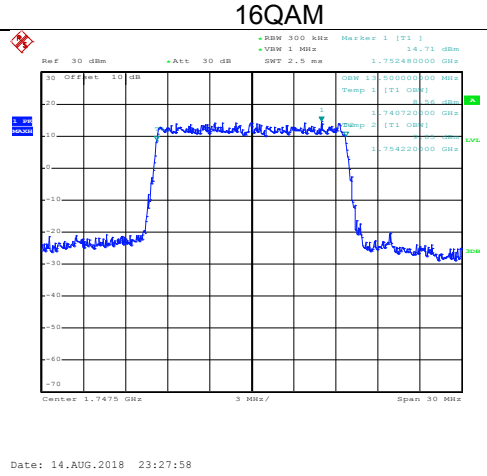
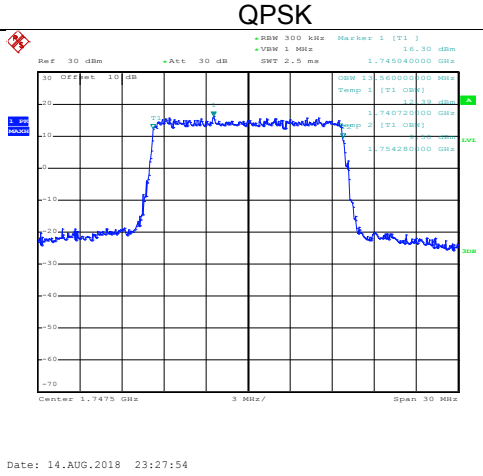
LTE Band 4 part:

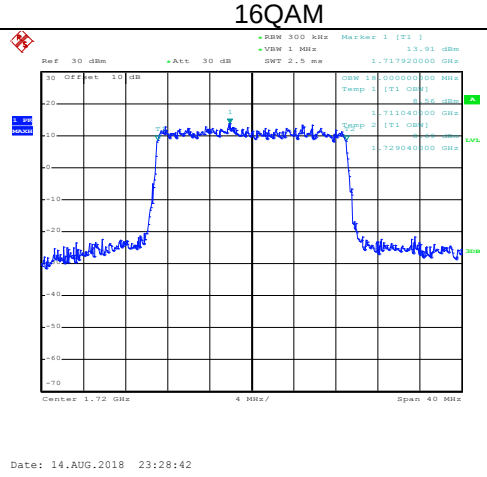
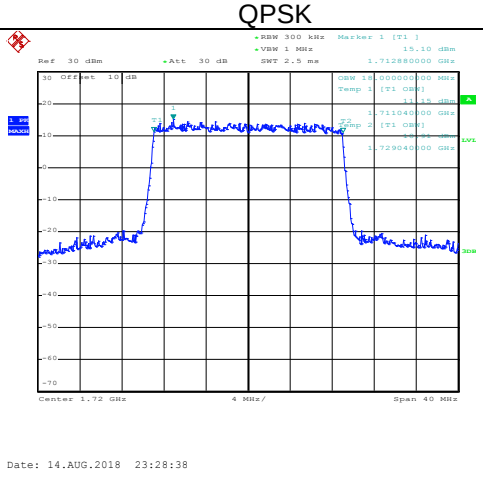
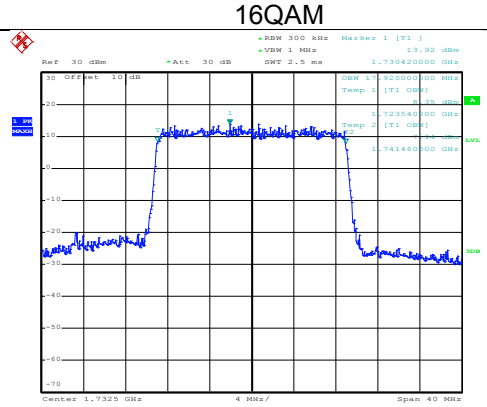
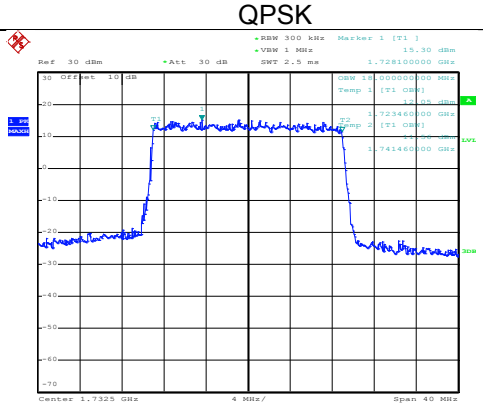
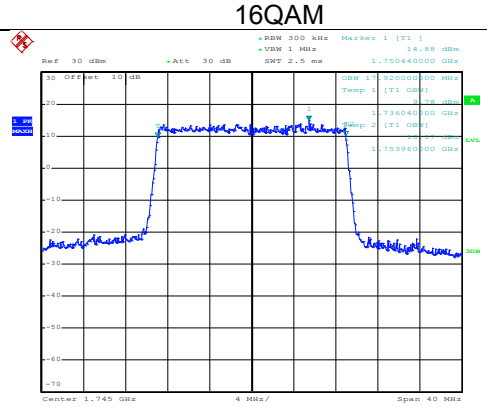
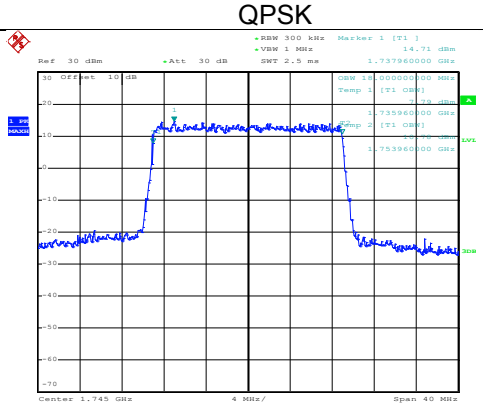
LTE Band 4: 99% Occupy bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

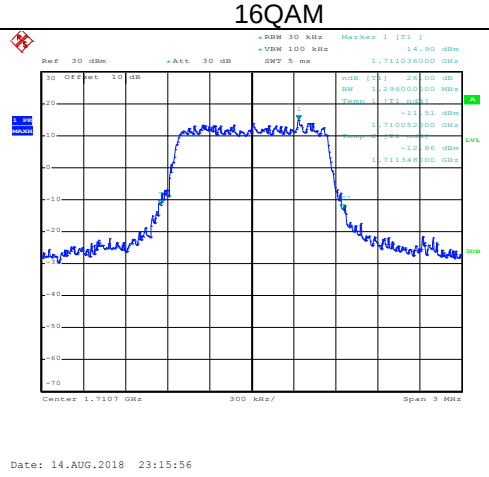
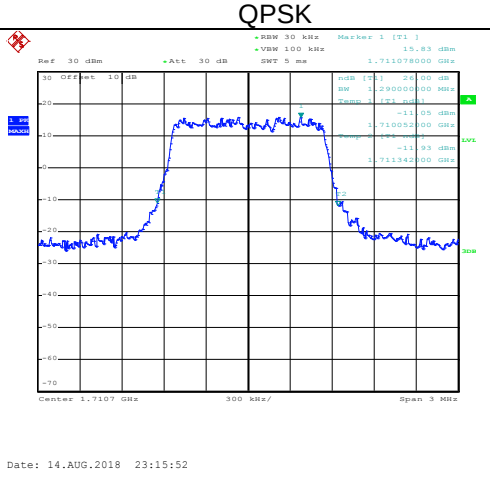
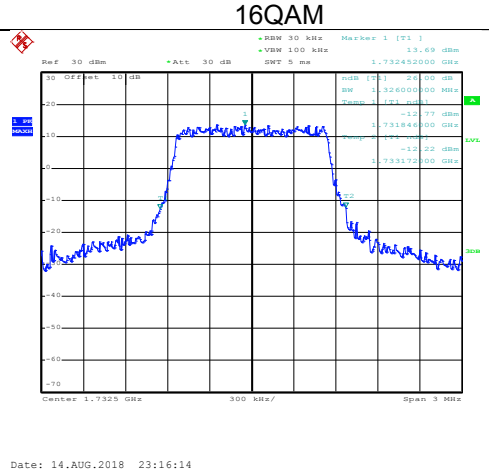
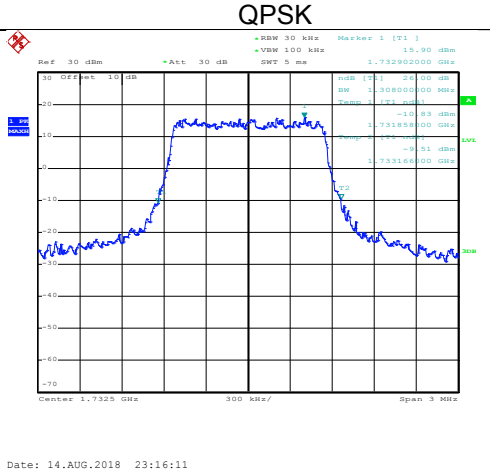
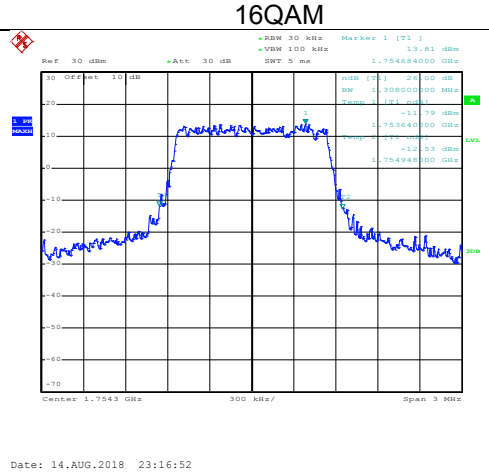
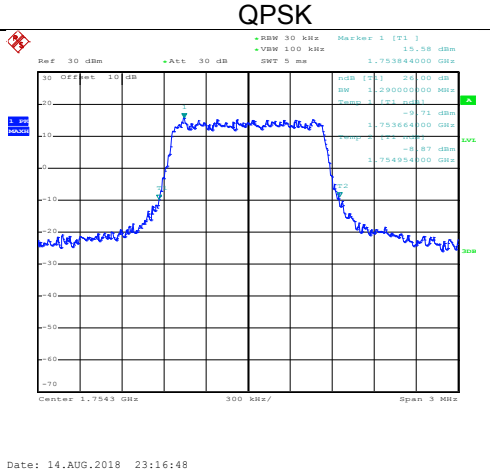
LTE Band 4: 99% Occupy bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

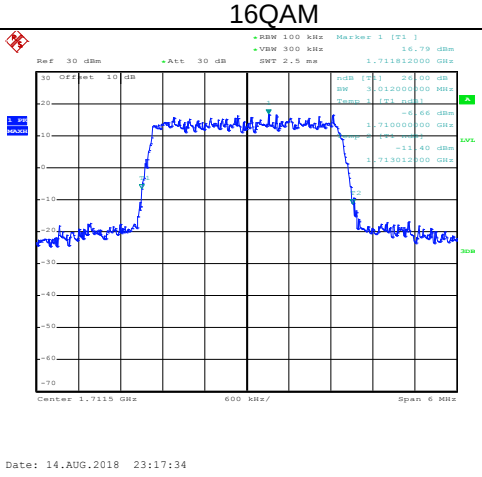
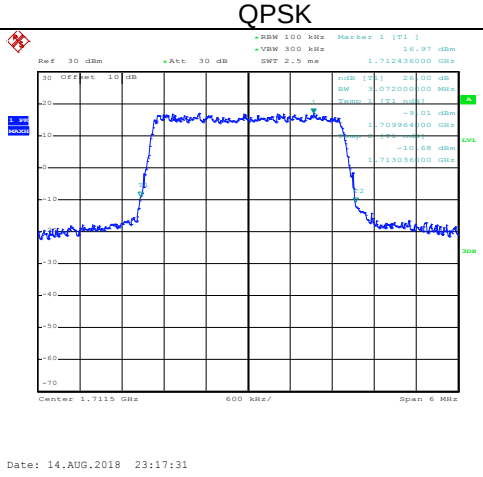
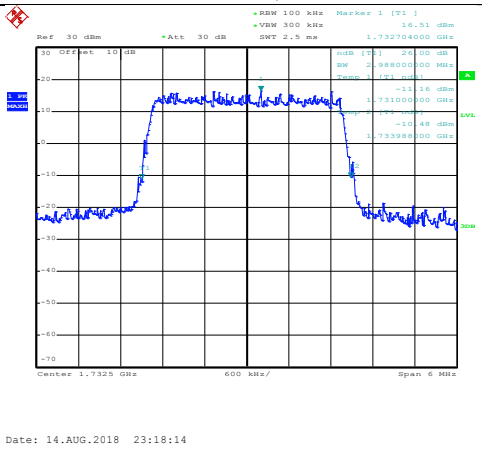
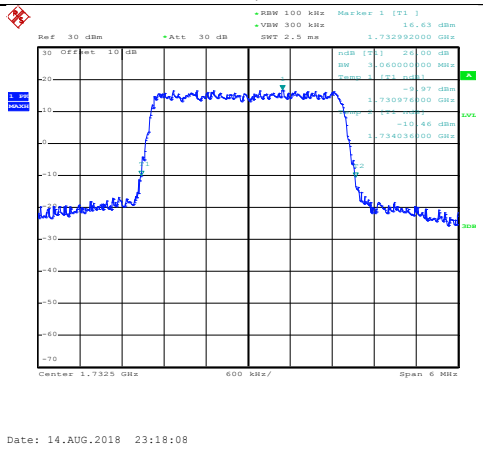
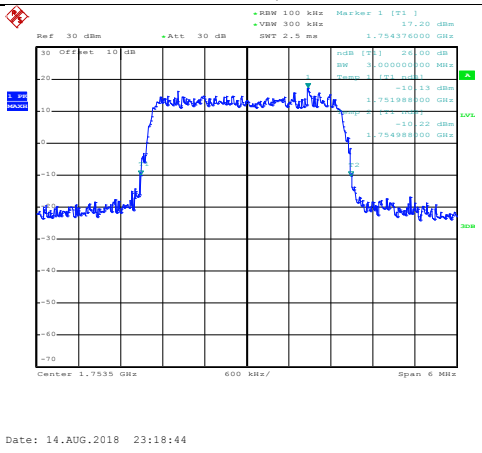
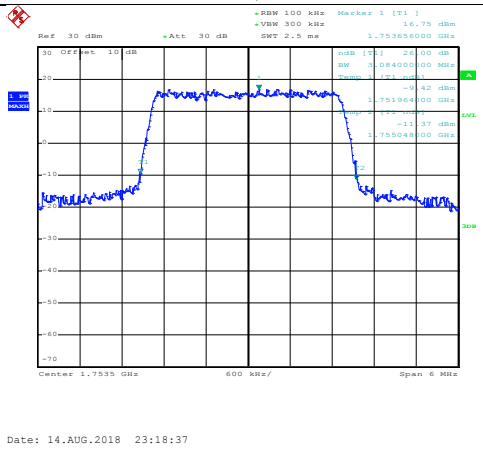
LTE Band 4: 99% Occupy bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

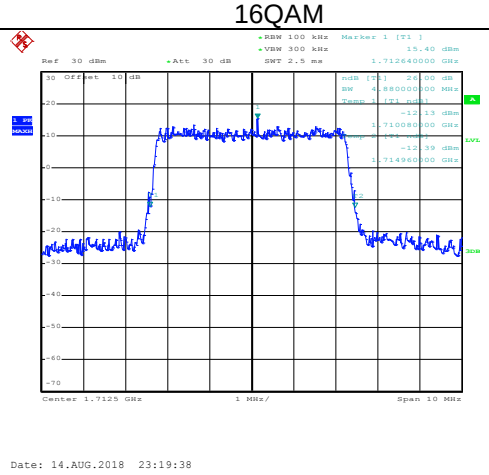
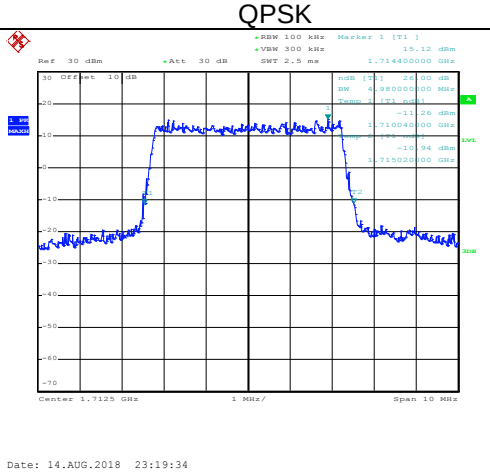
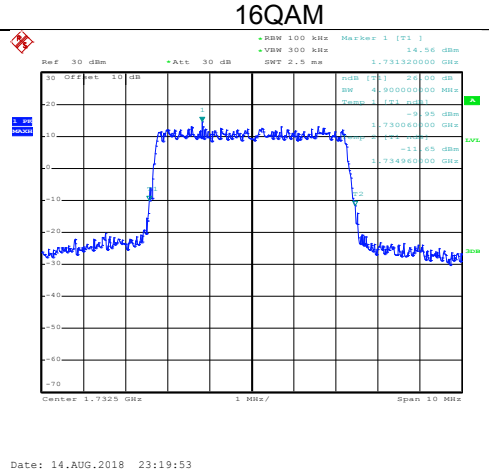
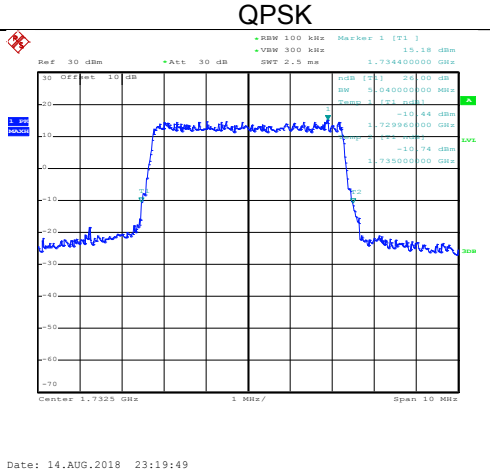
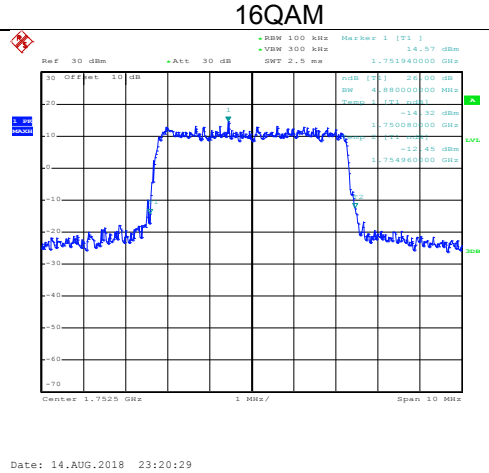
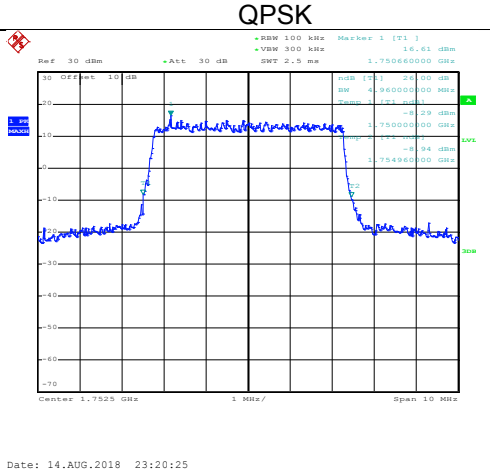
LTE Band 4: 99% Occupy bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

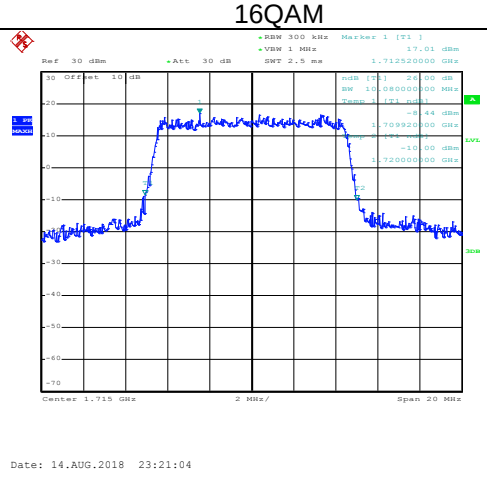
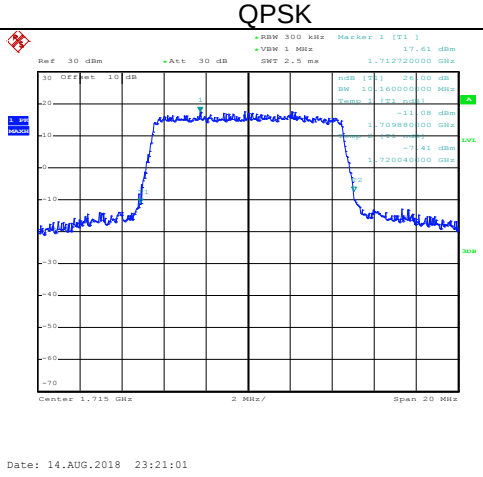
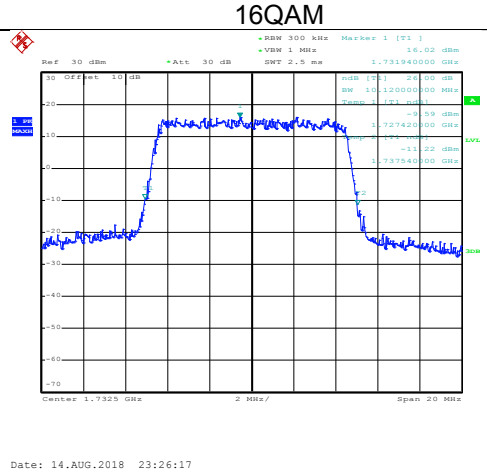
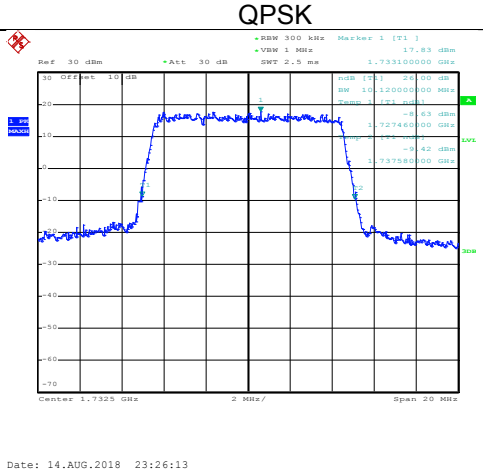
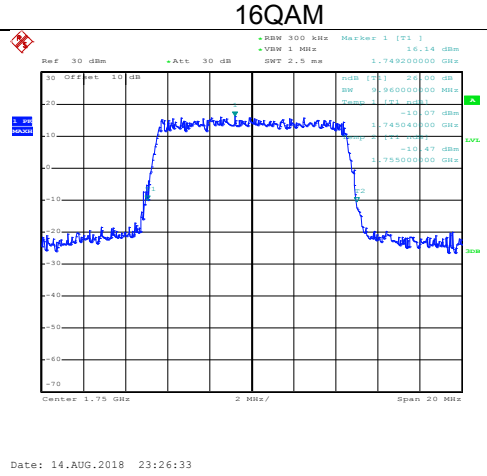
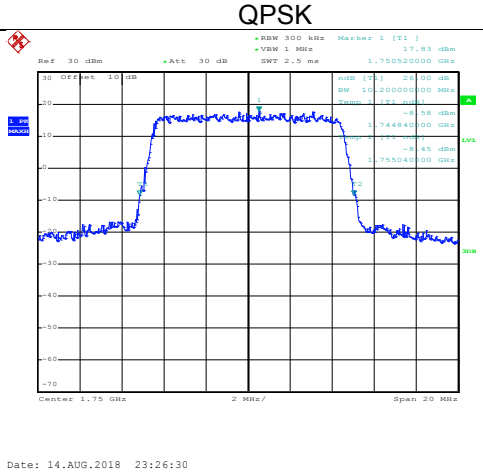
LTE Band 4: 99% Occupy bandwidth	
BW: 15MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

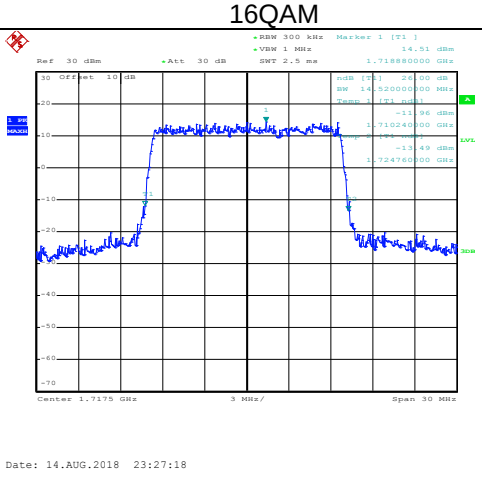
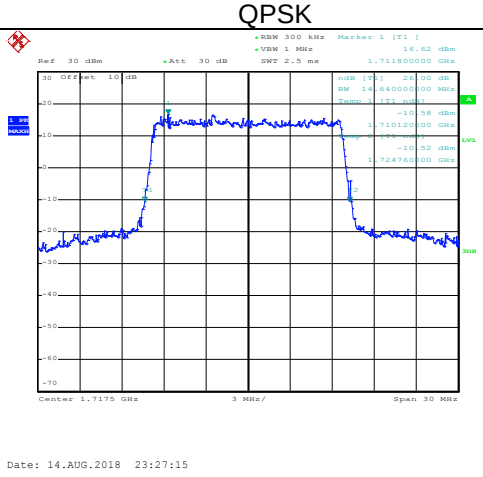
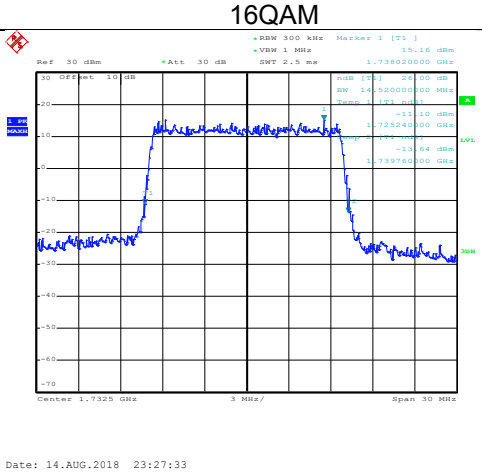
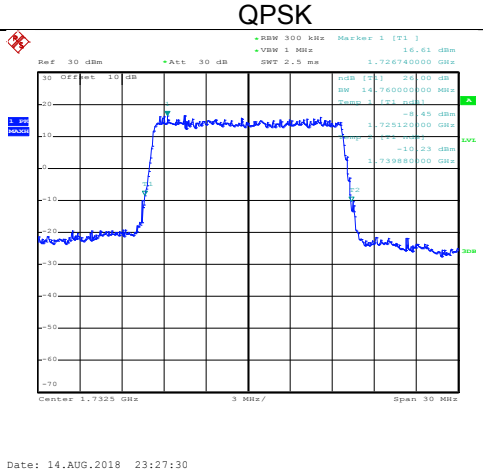
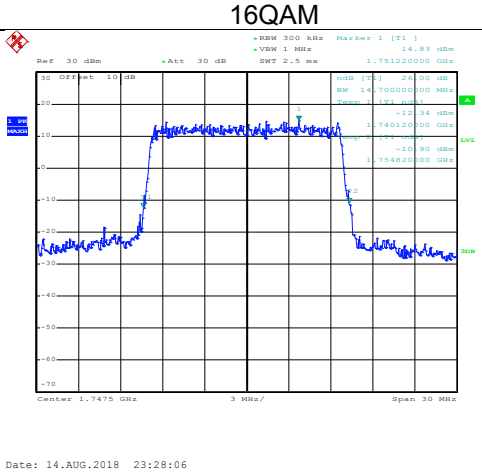
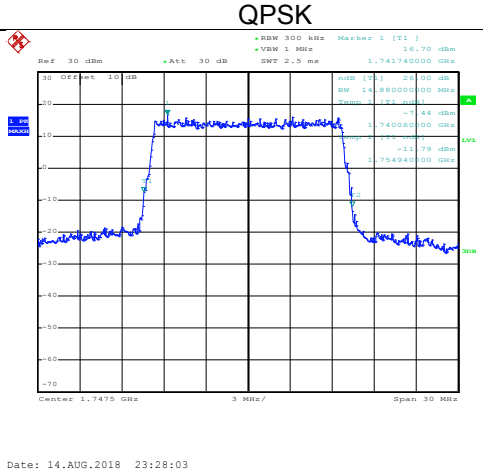
LTE Band 4: 99% Occupy bandwidth	
BW: 20MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:28:42	Date: 14.AUG.2018 23:28:38
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:28:57	Date: 14.AUG.2018 23:28:52
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:29:40	Date: 14.AUG.2018 23:29:31
Highest channel	

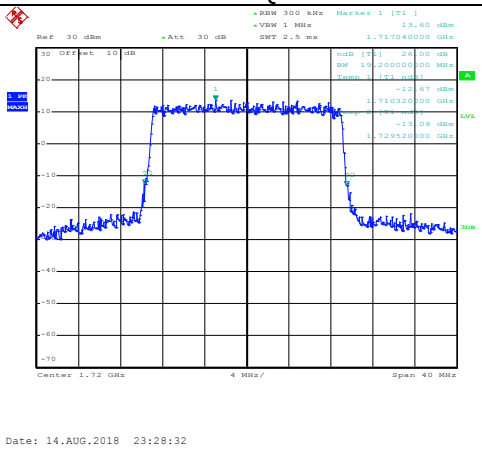
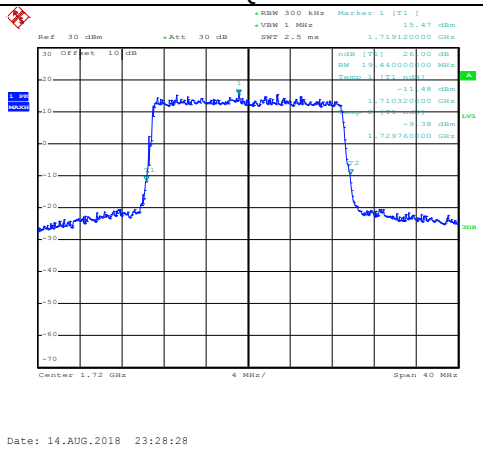
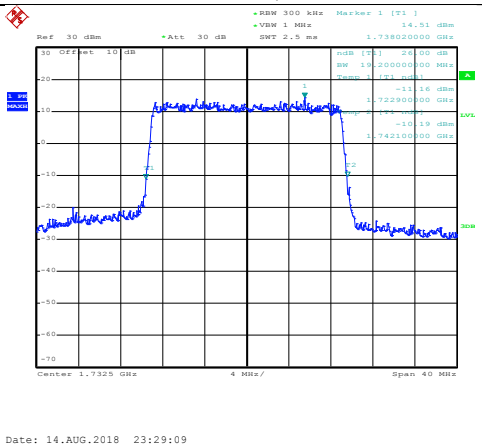
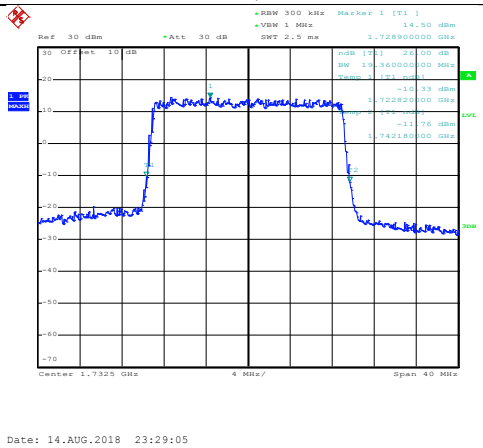
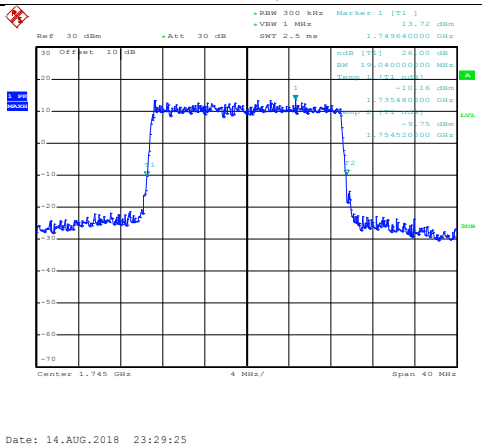
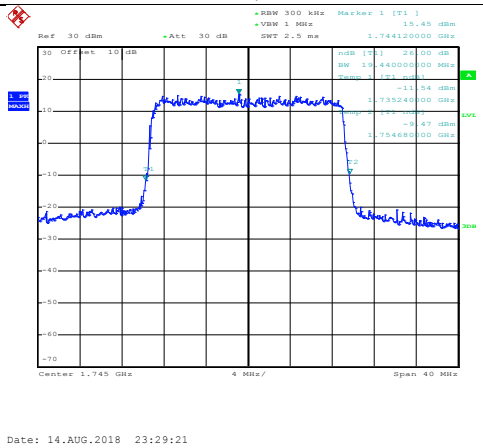
LTE Band 4: -26dBc bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:15:56	Date: 14.AUG.2018 23:15:52
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:16:14	Date: 14.AUG.2018 23:16:11
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:16:52	Date: 14.AUG.2018 23:16:48
Highest channel	

LTE Band 4: -26dBc bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:17:34	Date: 14.AUG.2018 23:17:31
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:18:14	Date: 14.AUG.2018 23:18:08
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:18:44	Date: 14.AUG.2018 23:18:37
Highest channel	

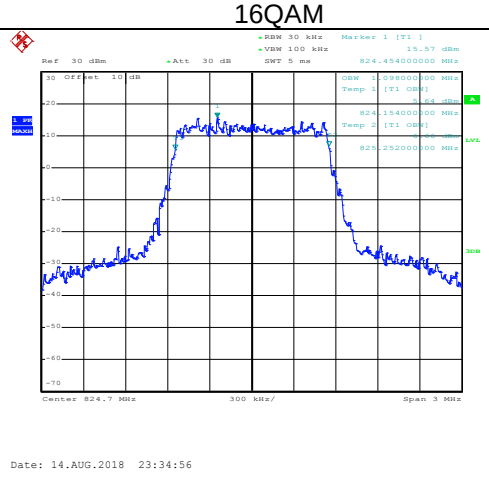
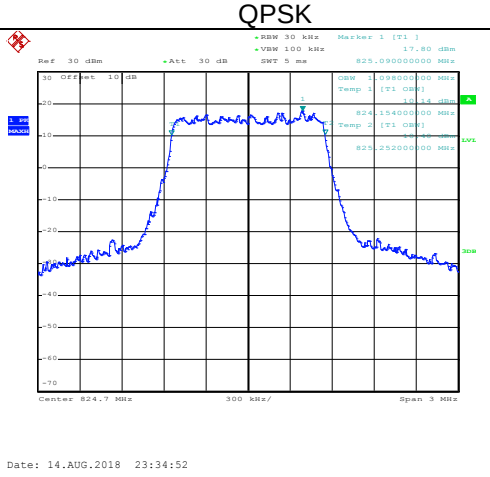
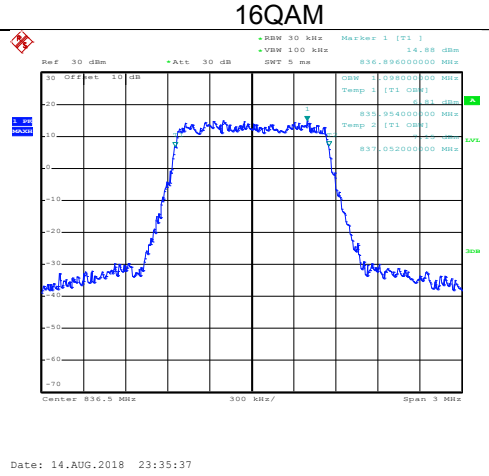
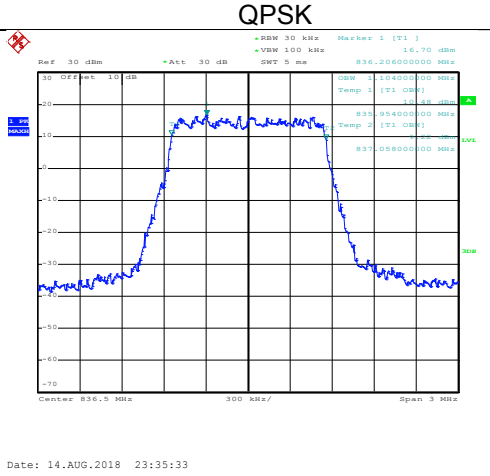
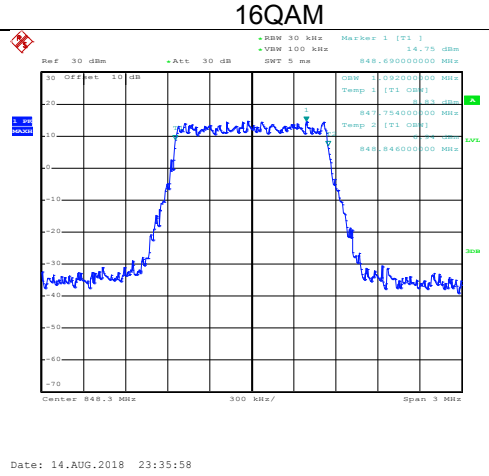
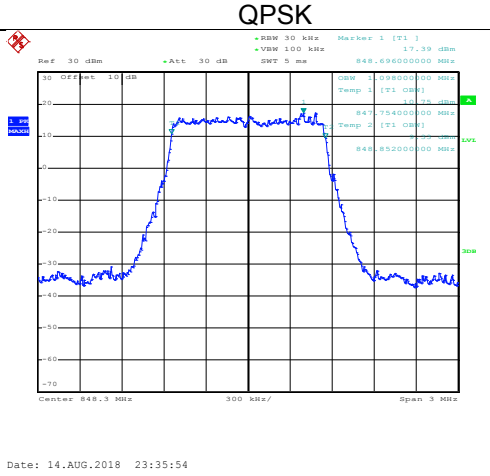
LTE Band 4: -26dBc bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

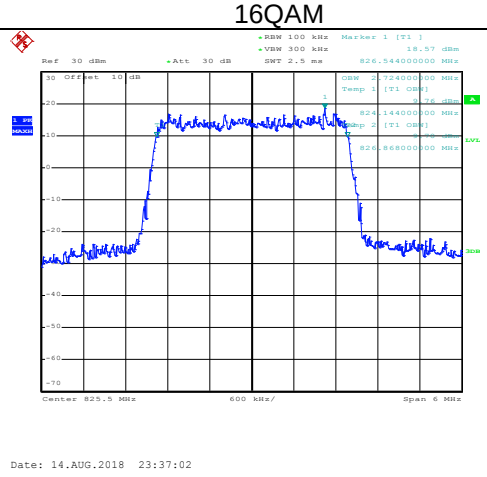
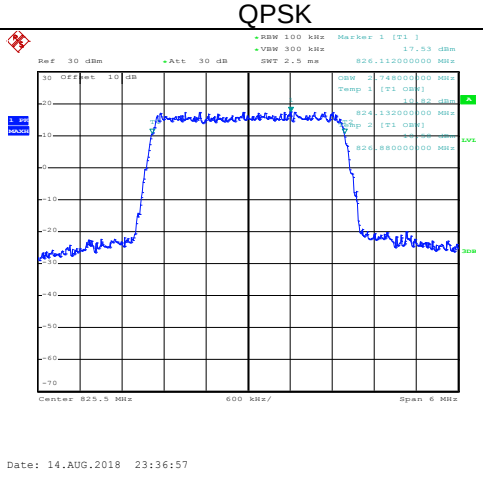
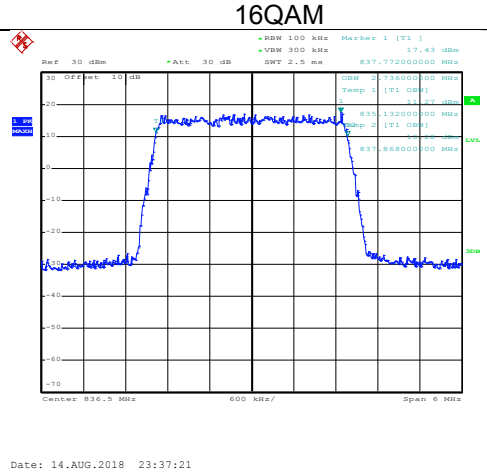
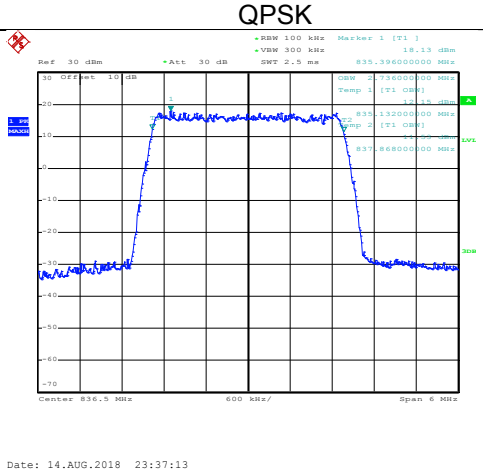
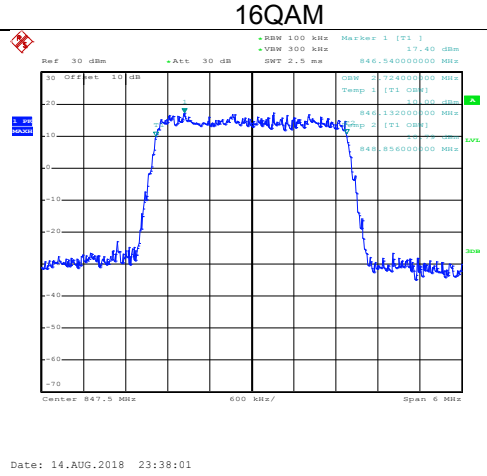
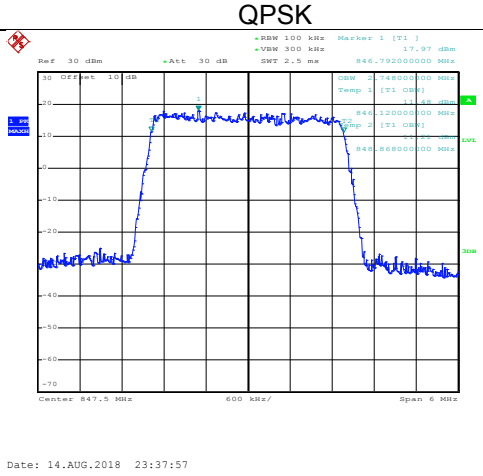
LTE Band 4: -26dBc bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

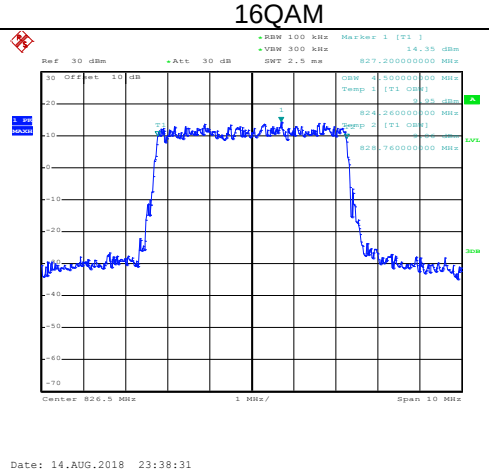
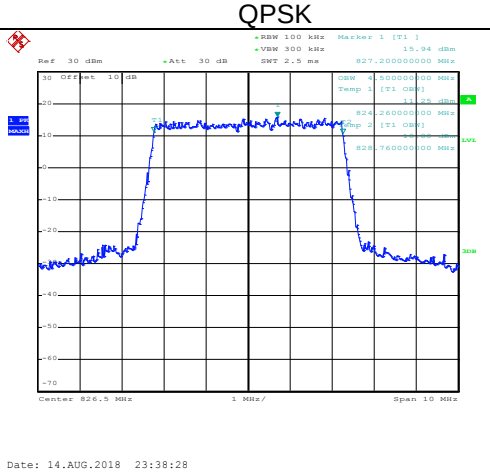
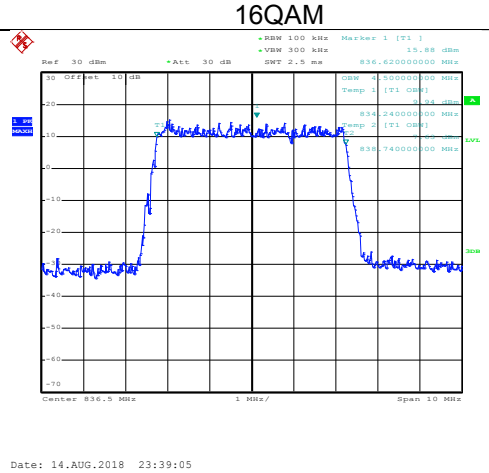
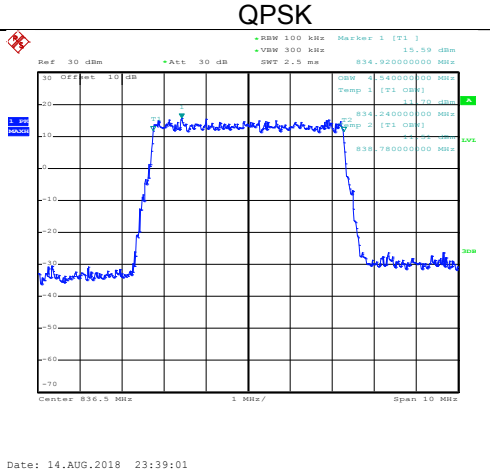
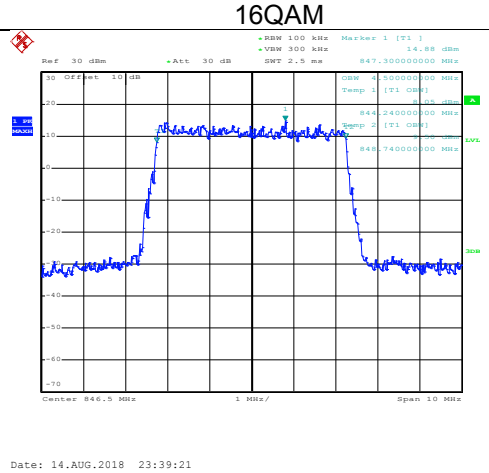
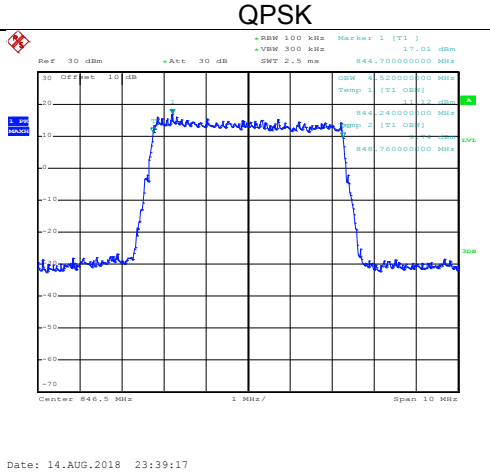
LTE Band 4: -26dBc bandwidth	
BW: 15MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:27:18	Date: 14.AUG.2018 23:27:15
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:27:33	Date: 14.AUG.2018 23:27:30
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:28:06	Date: 14.AUG.2018 23:28:03
Highest channel	

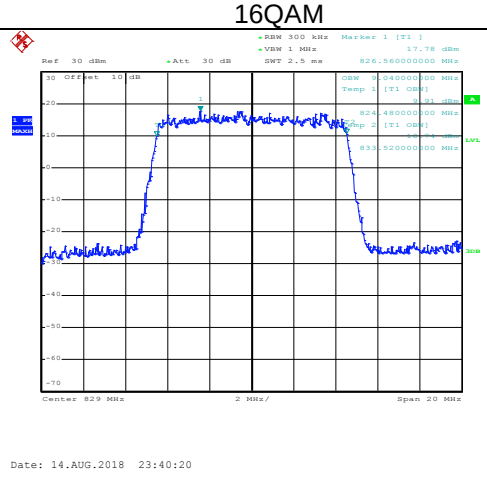
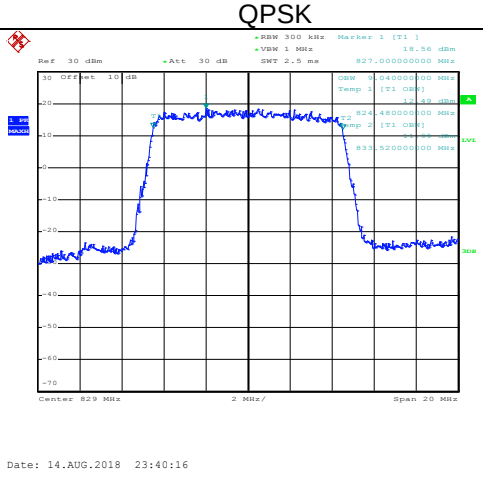
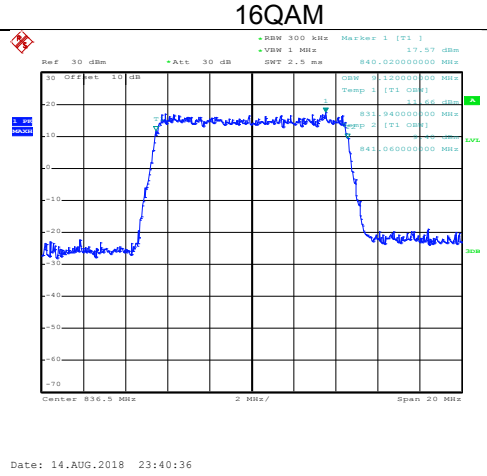
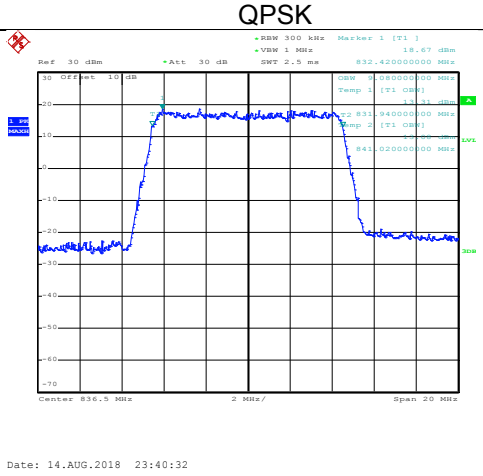
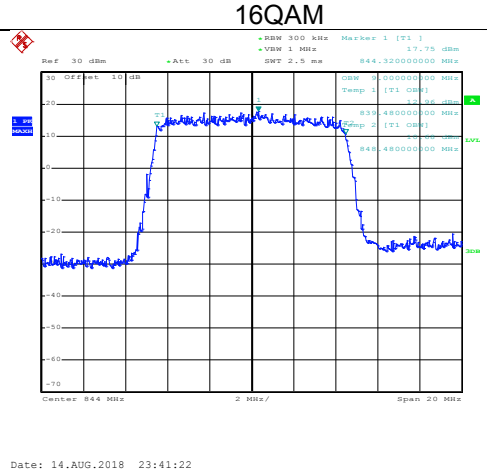
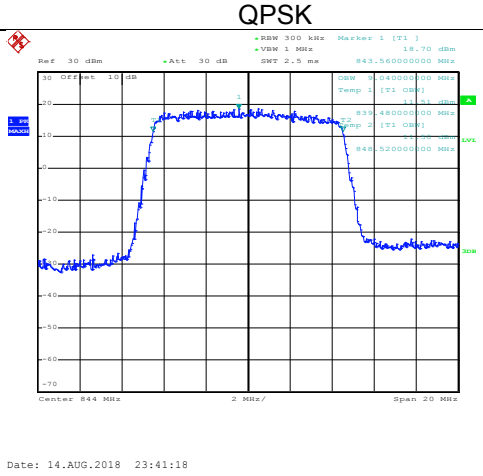
LTE Band 4: -26dBc bandwidth	
BW: 20MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

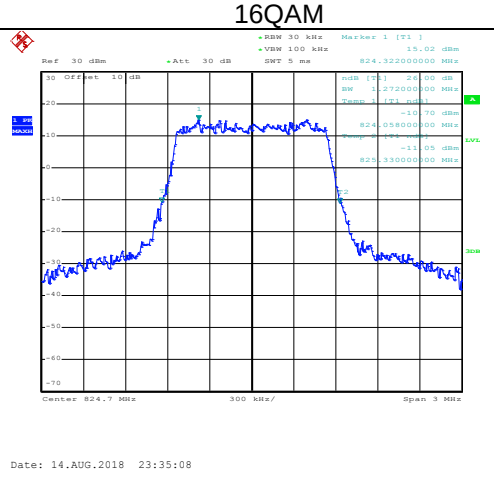
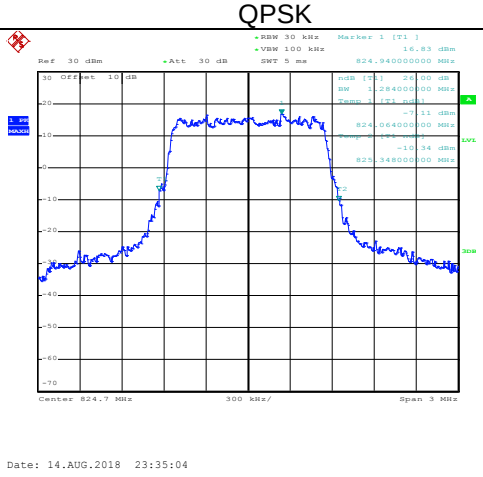
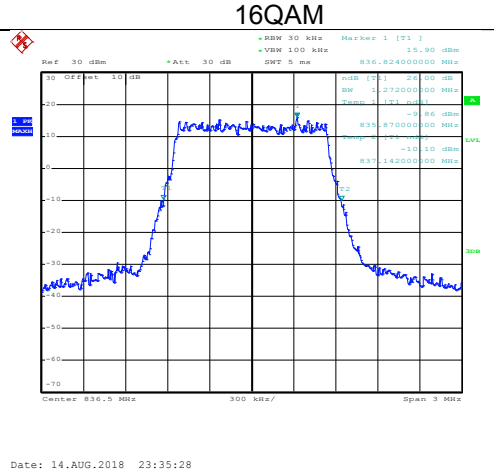
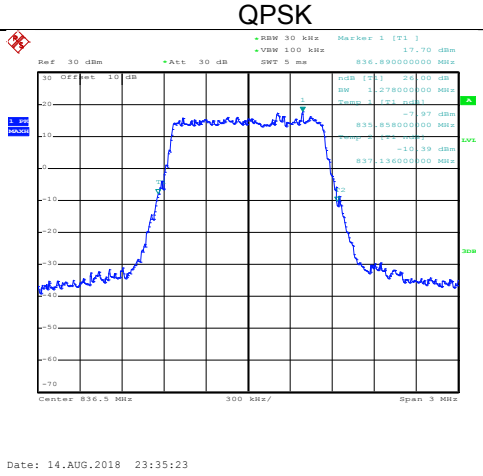
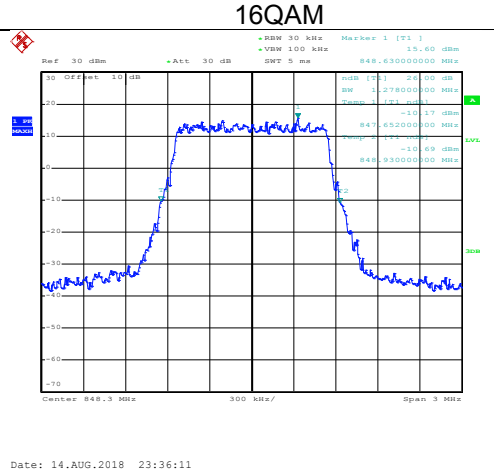
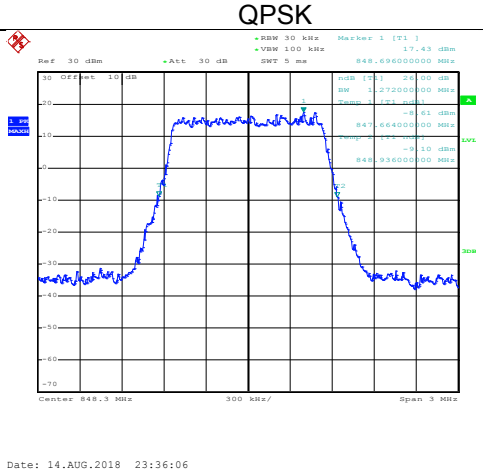
LTE Band 5 part:

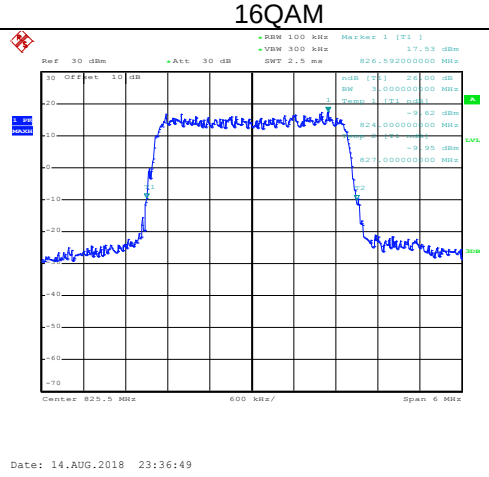
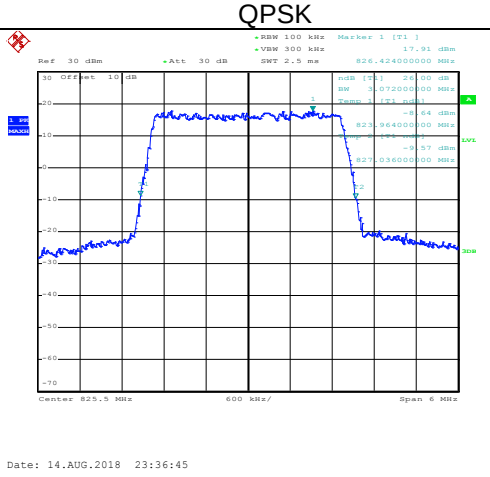
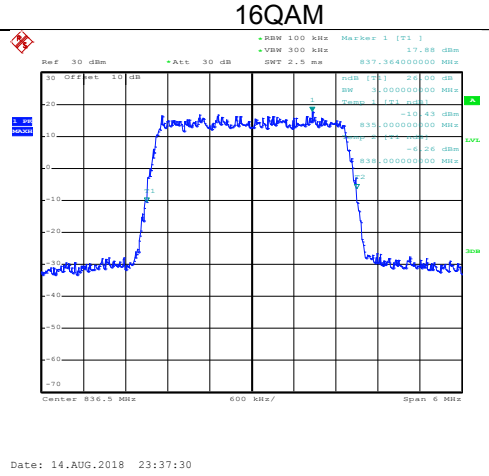
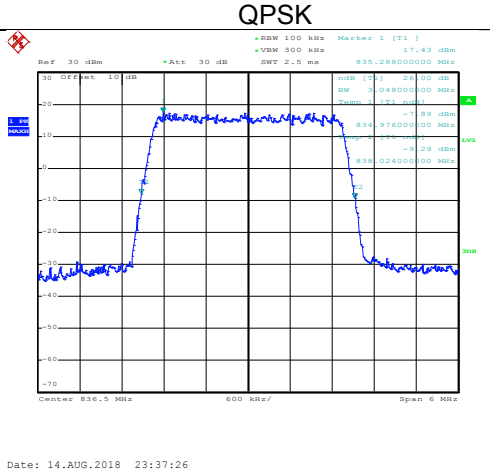
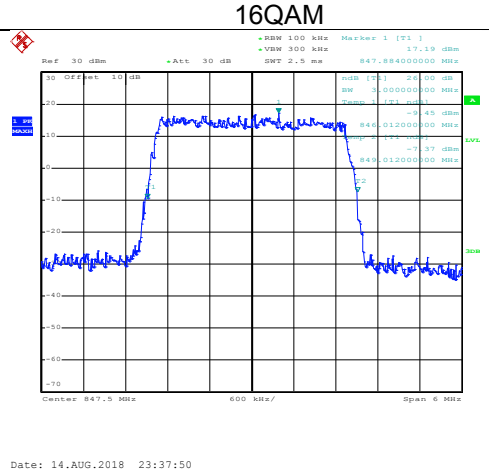
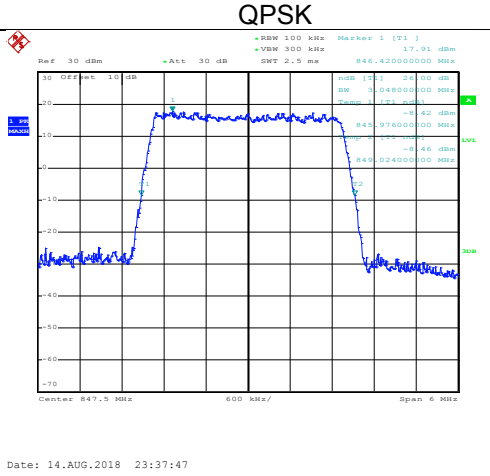
LTE Band 5: 99% Occupy bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:34:56	Date: 14.AUG.2018 23:34:52
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:35:37	Date: 14.AUG.2018 23:35:33
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:35:58	Date: 14.AUG.2018 23:35:54
Highest channel	

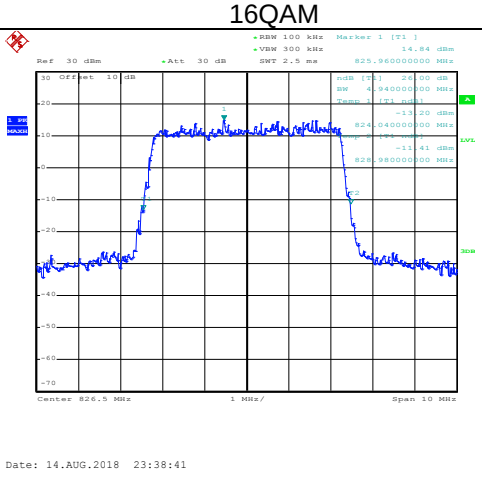
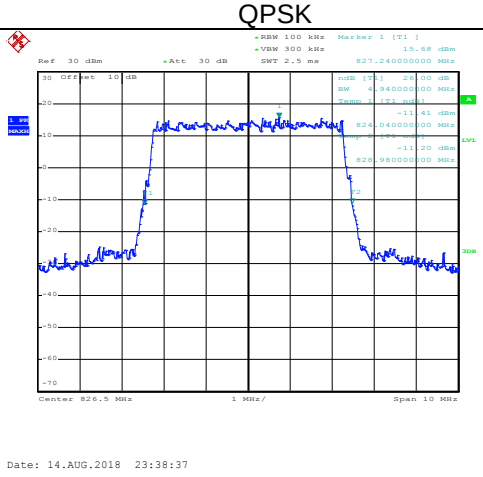
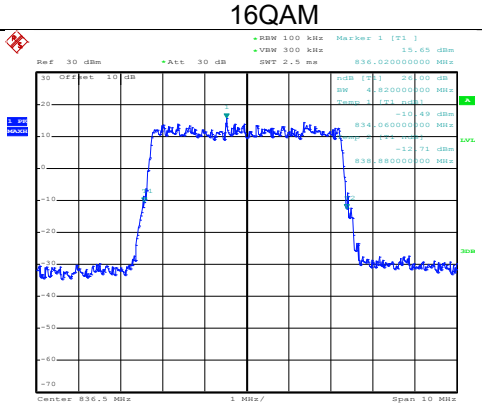
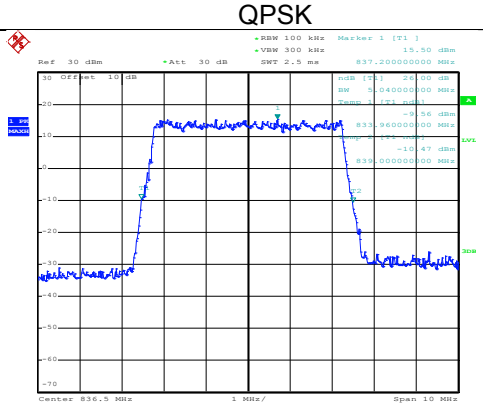
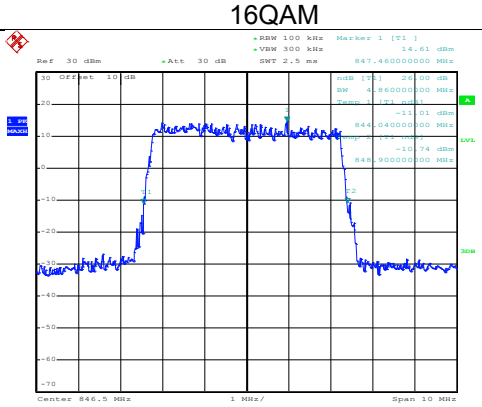
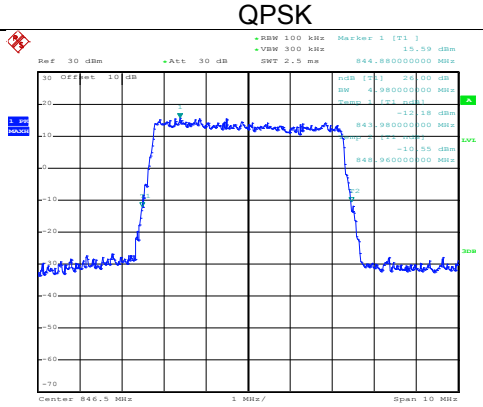
LTE Band 5: 99% Occupy bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

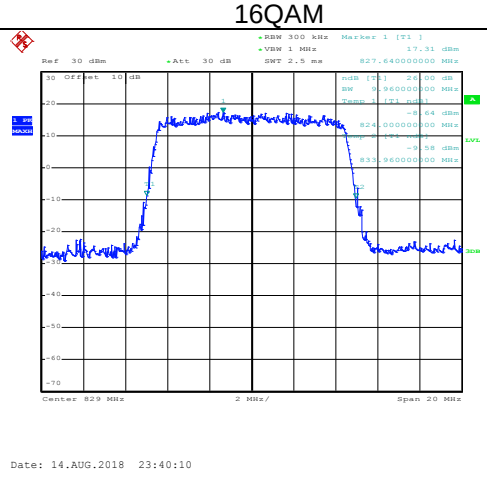
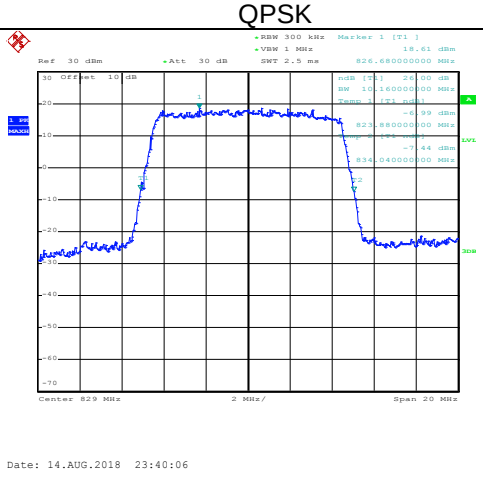
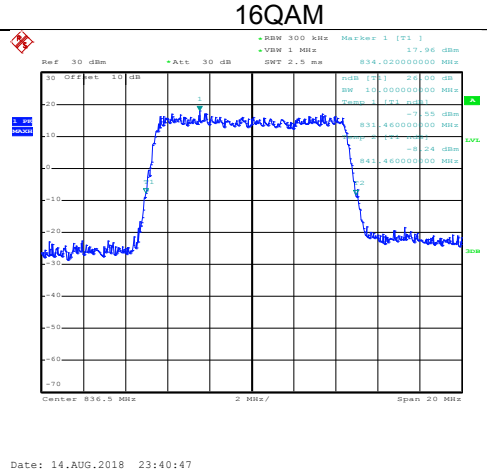
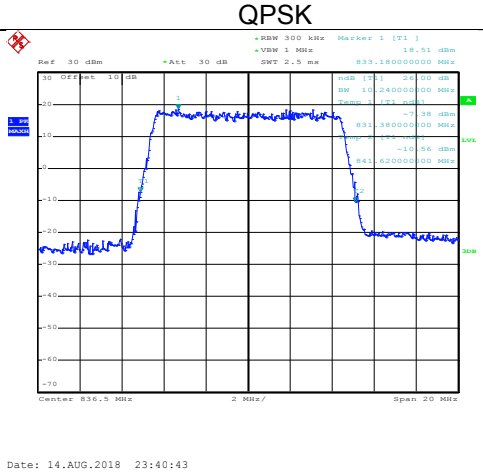
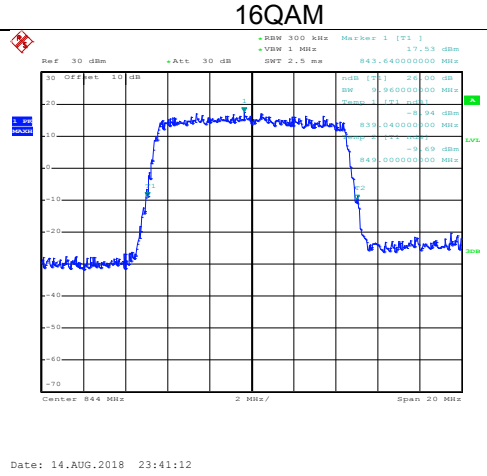
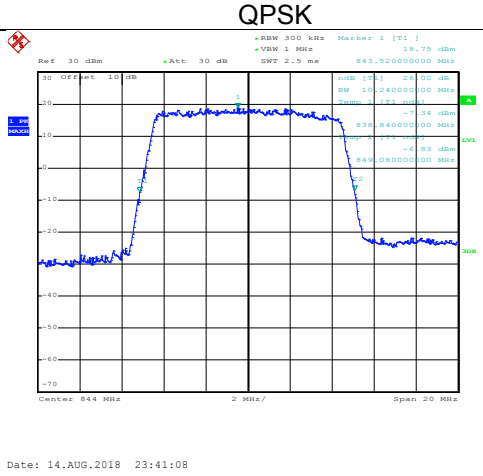
LTE Band 5: 99% Occupy bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

LTE Band 5: 99% Occupy bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

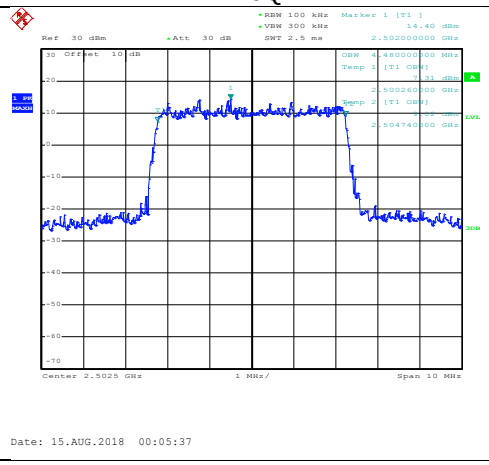
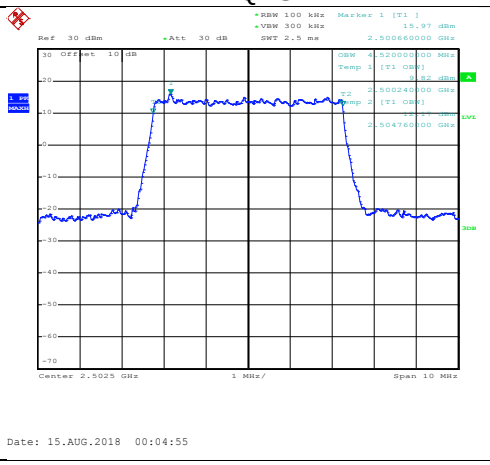
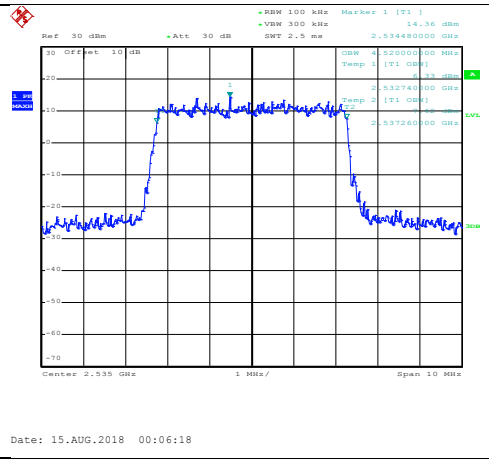
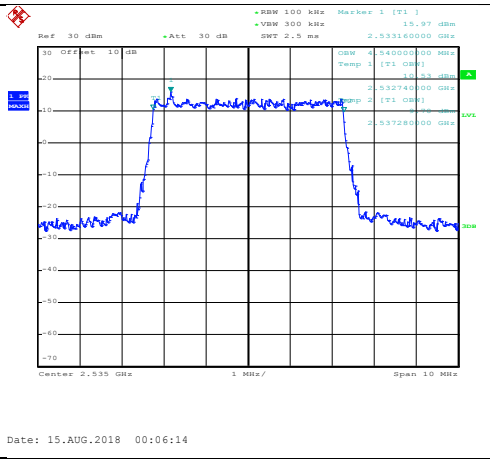
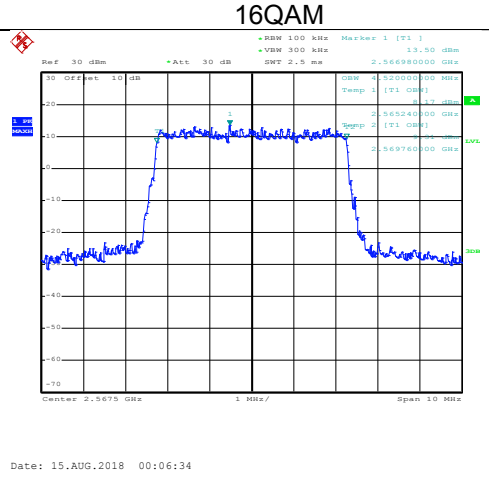
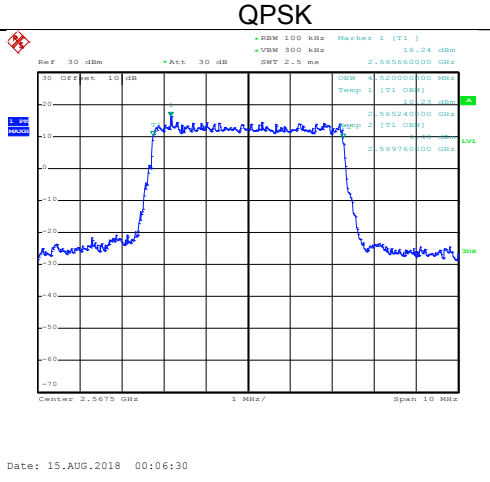
LTE Band 5: -26dBc bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

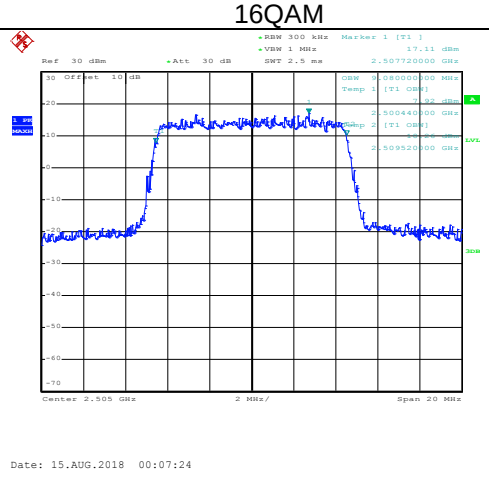
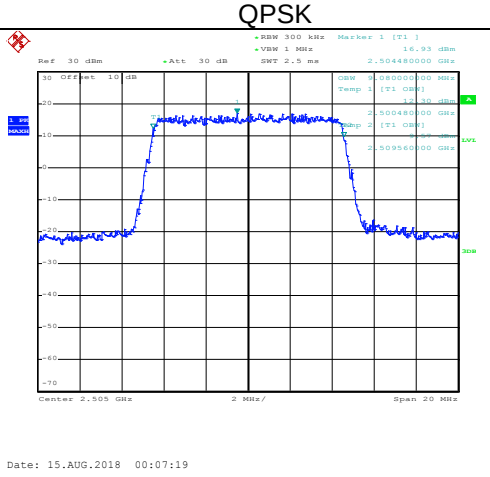
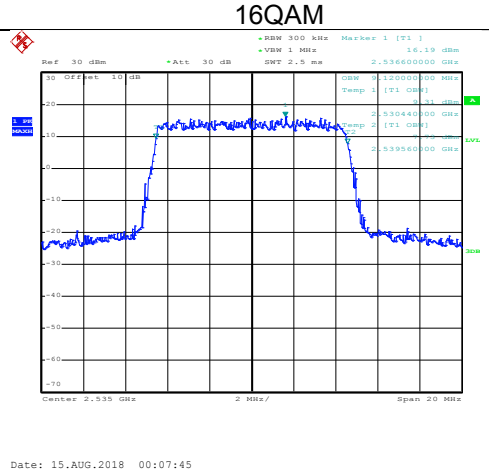
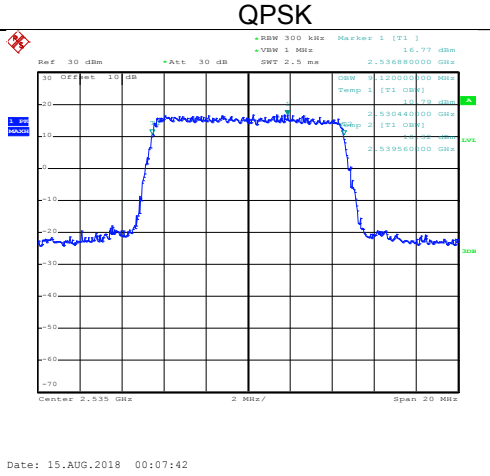
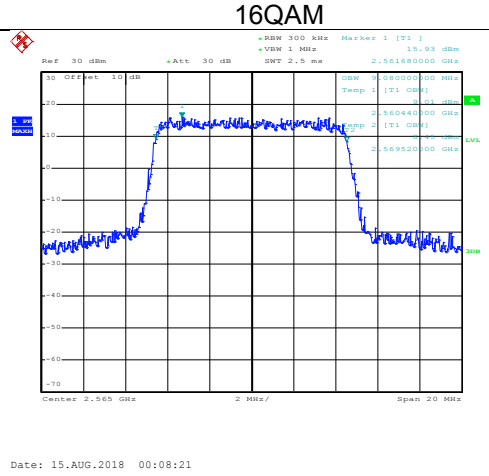
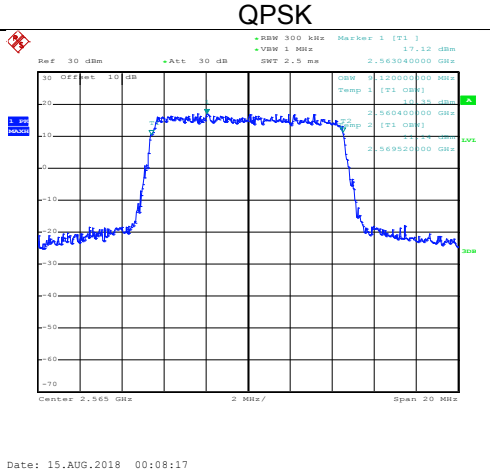
LTE Band 5: -26dBc bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

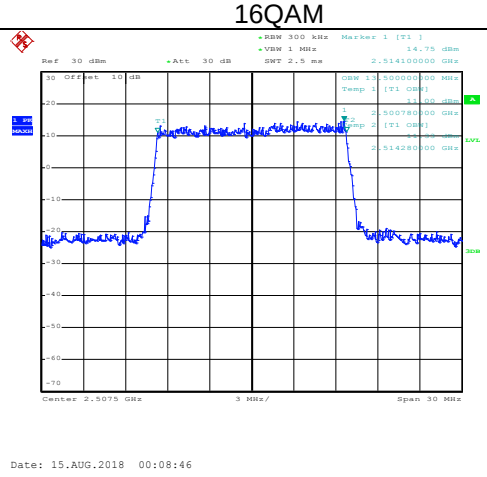
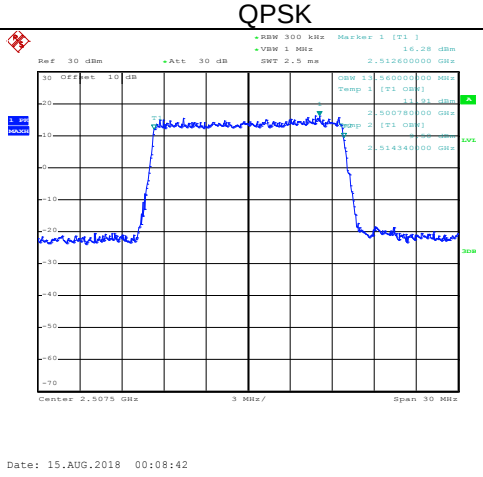
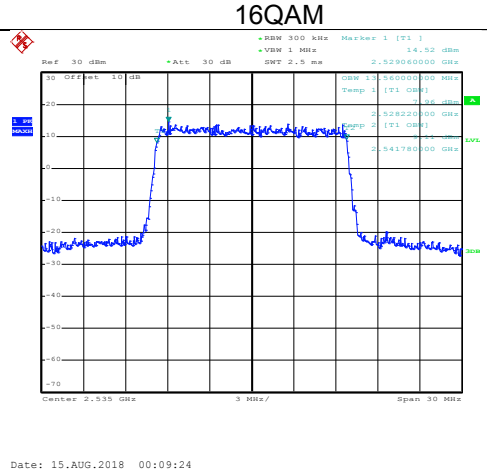
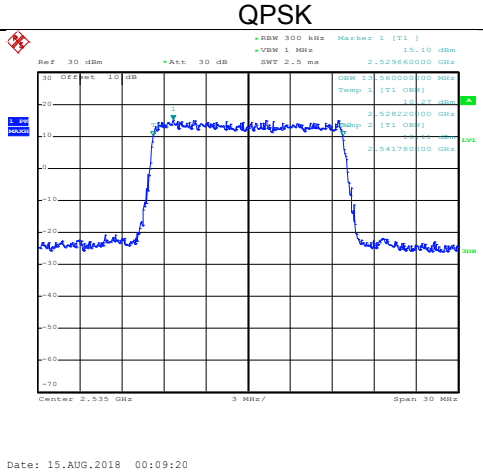
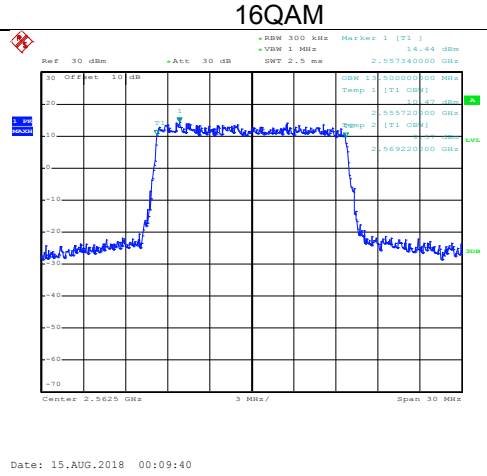
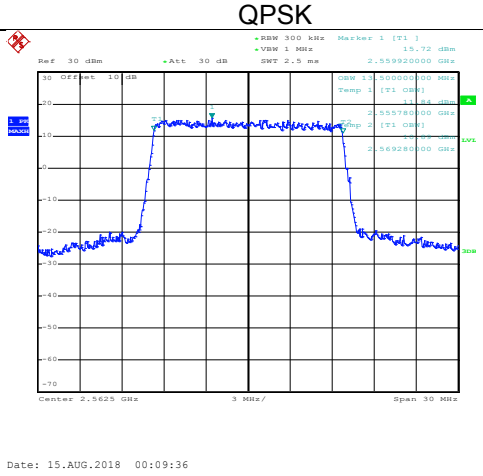
LTE Band 5: -26dBc bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Date: 14.AUG.2018 23:38:41	Date: 14.AUG.2018 23:38:37
Lowest channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:38:56	Date: 14.AUG.2018 23:38:52
Middle channel	
16QAM	QPSK
	
Date: 14.AUG.2018 23:39:31	Date: 14.AUG.2018 23:39:27
Highest channel	

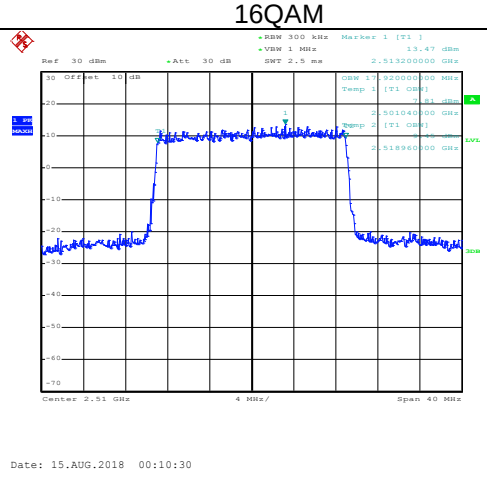
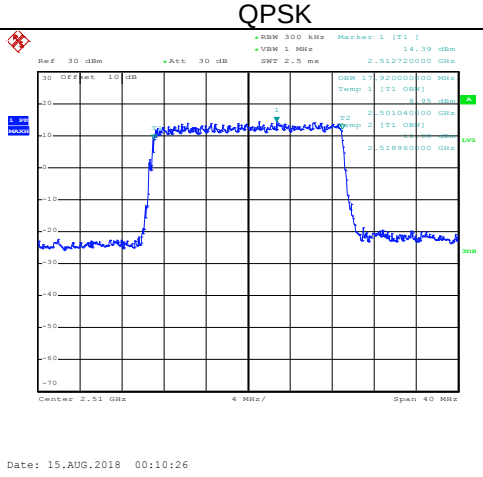
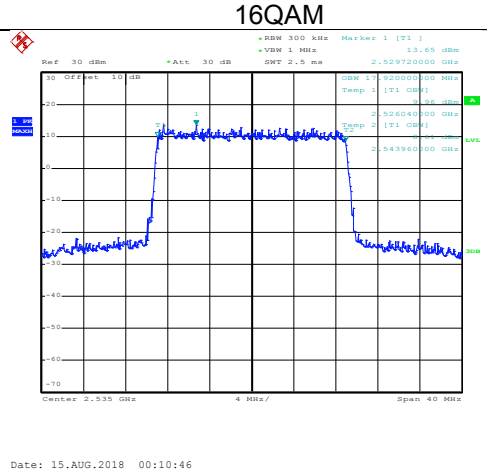
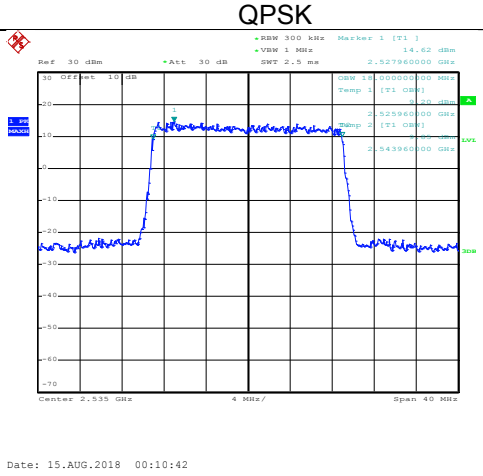
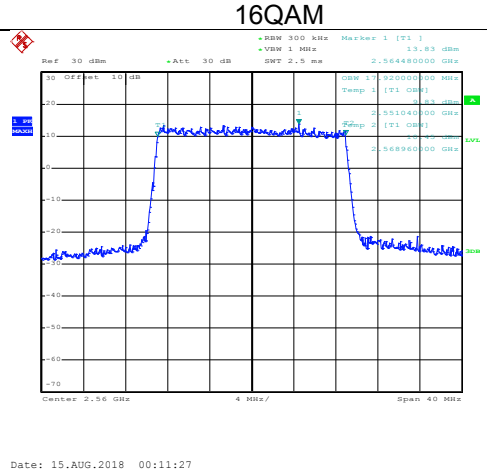
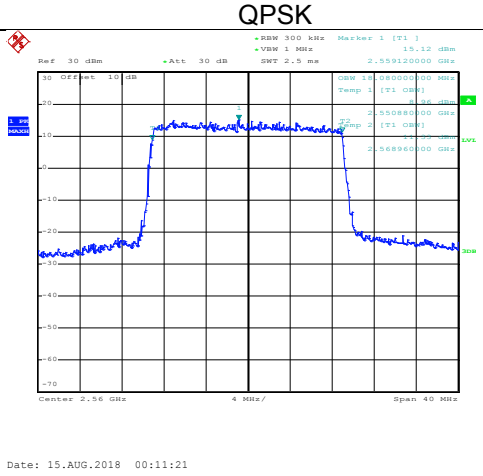
LTE Band 5: -26dBc bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

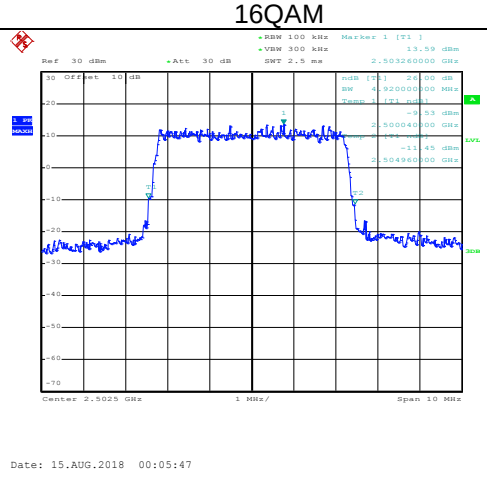
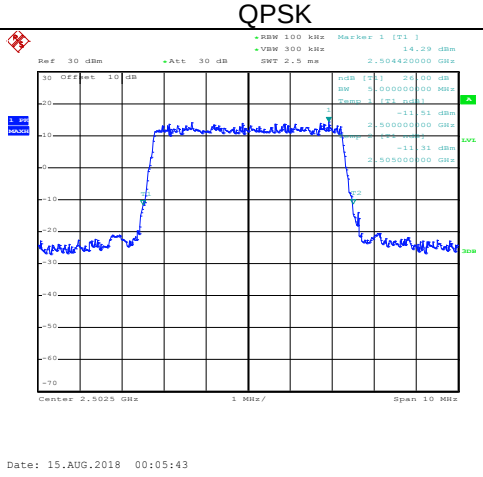
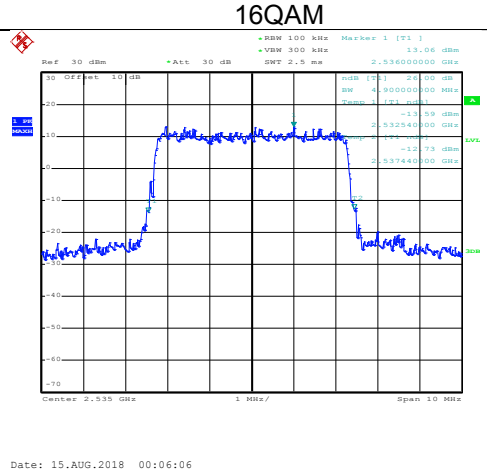
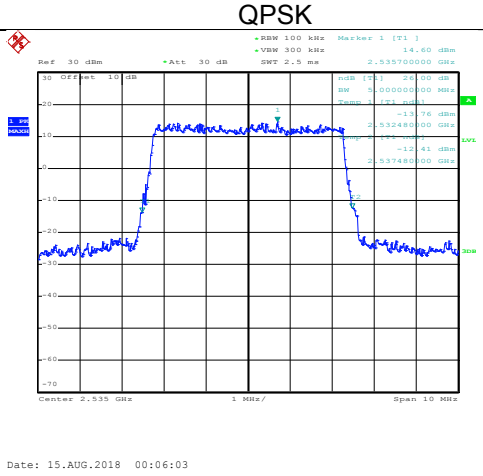
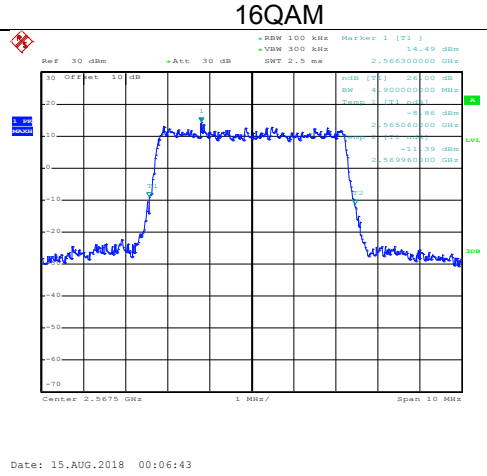
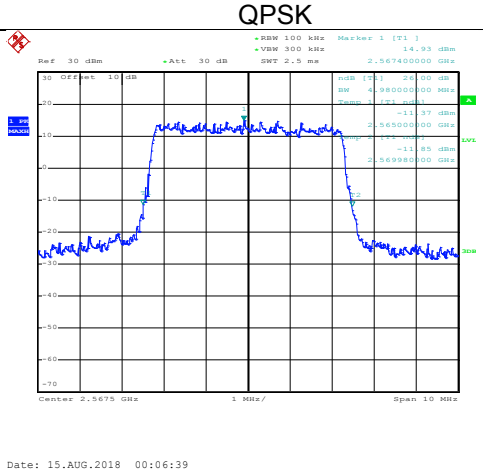
LTE-Band 7 part:

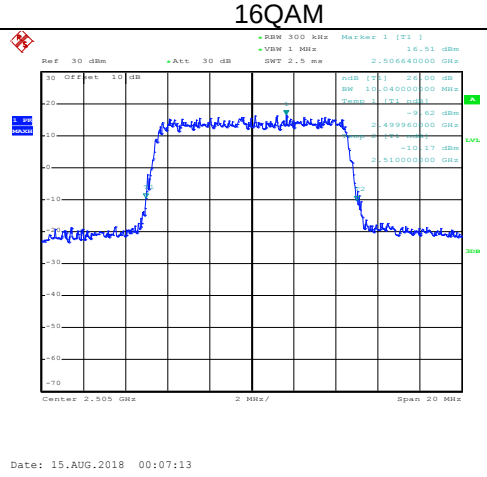
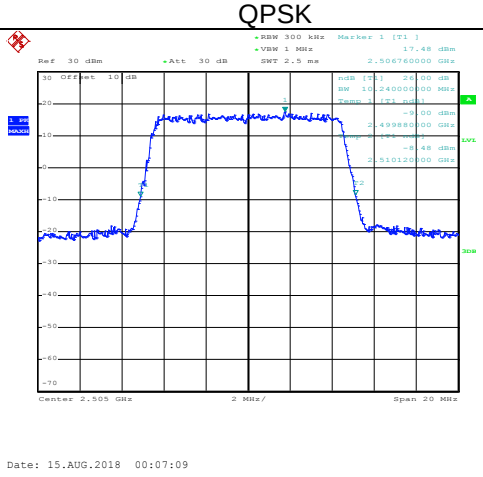
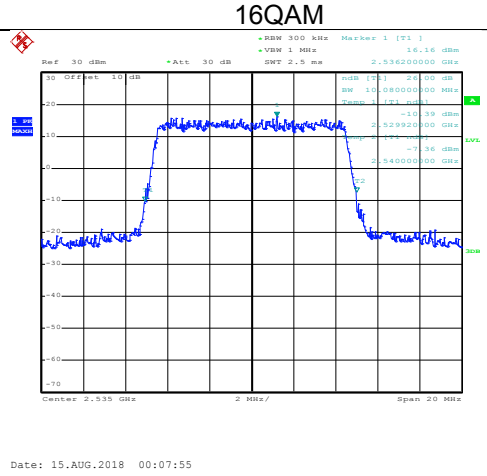
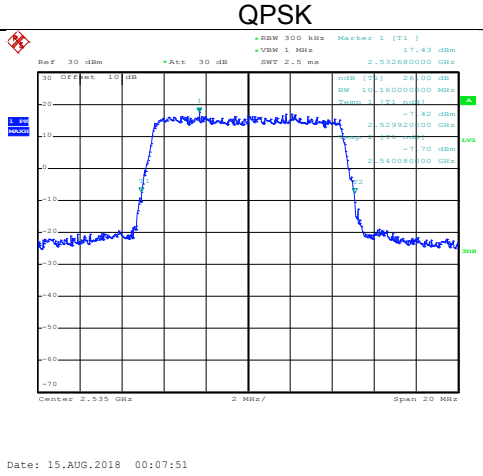
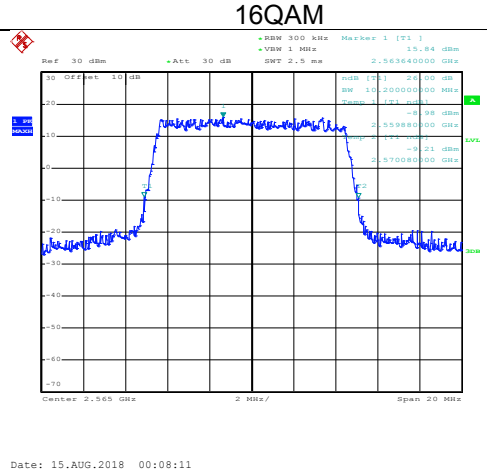
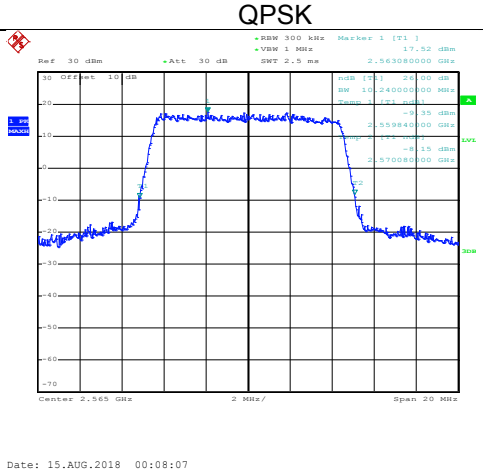
LTE Band 7: 99% Occupy bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

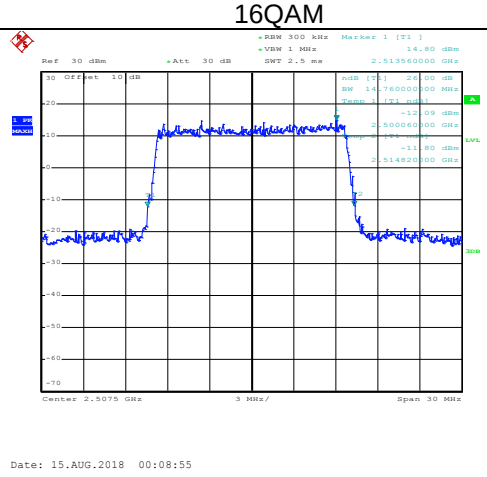
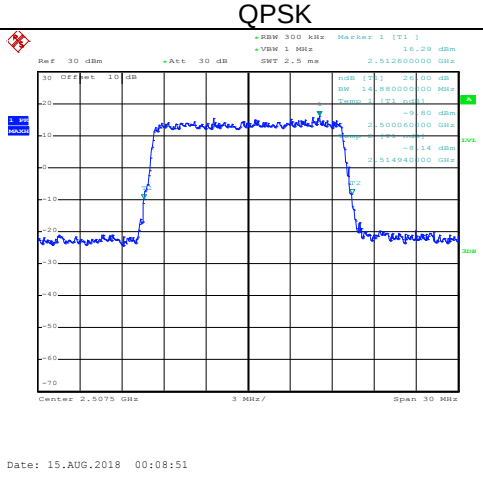
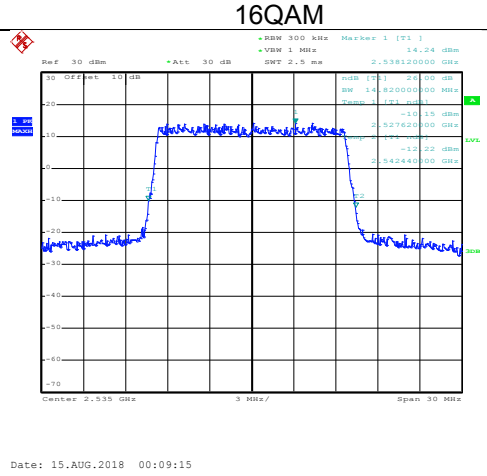
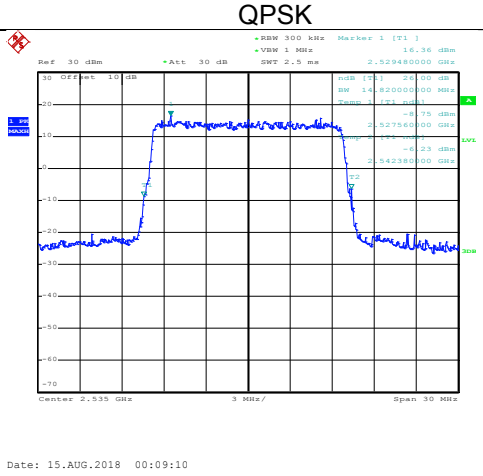
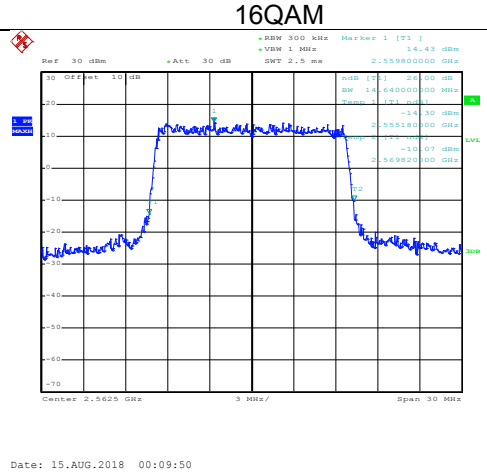
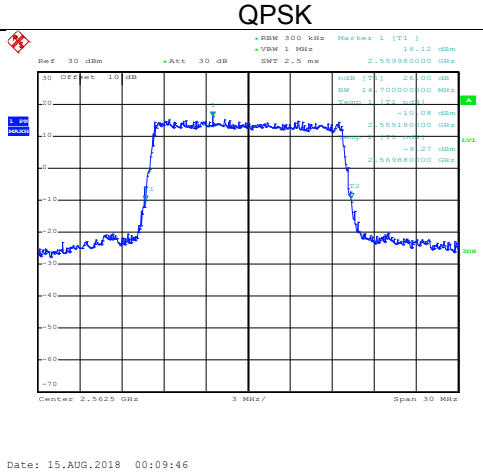
LTE Band 7: 99% Occupy bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

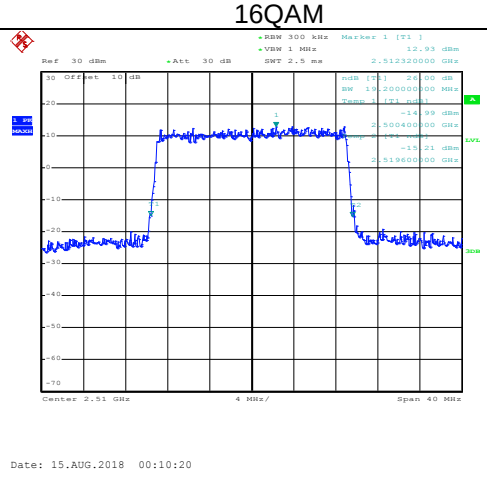
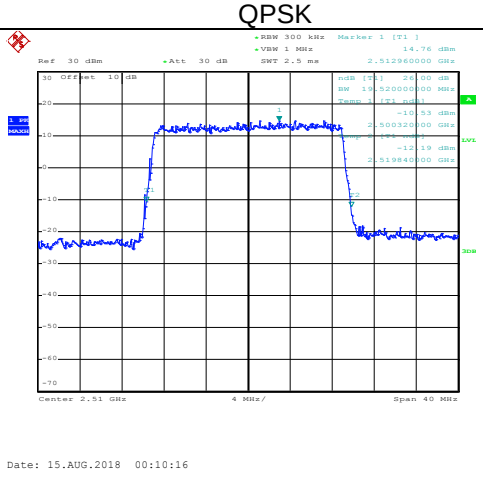
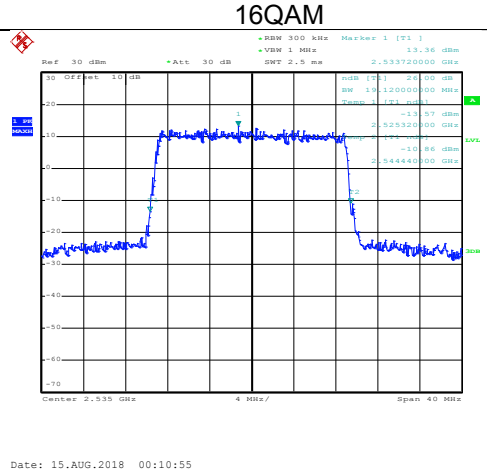
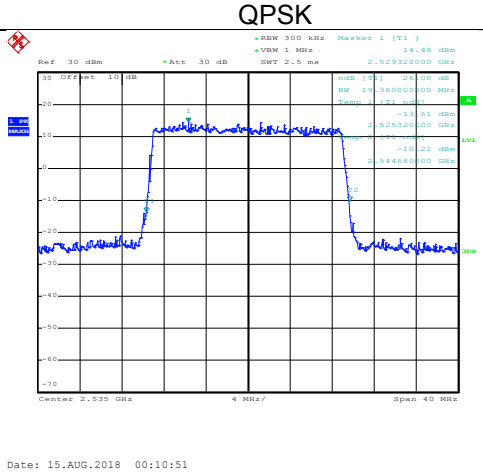
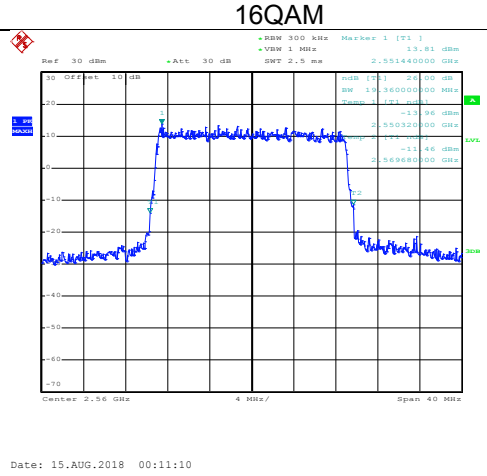
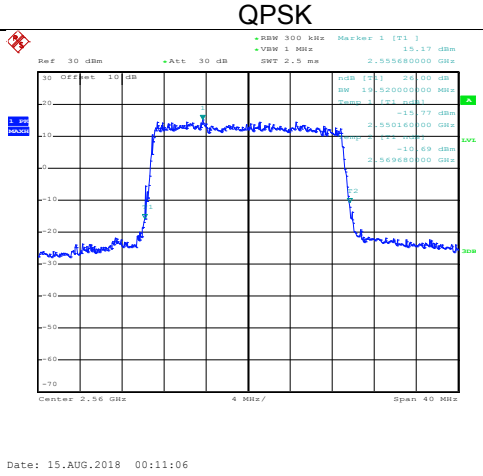
LTE Band 7: 99% Occupy bandwidth	
BW: 15MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

LTE Band 7: 99% Occupy bandwidth	
BW: 20MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

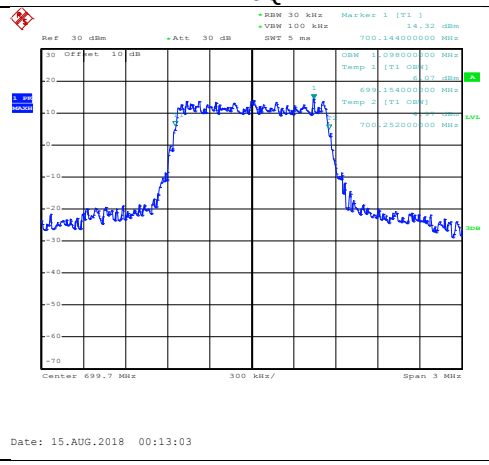
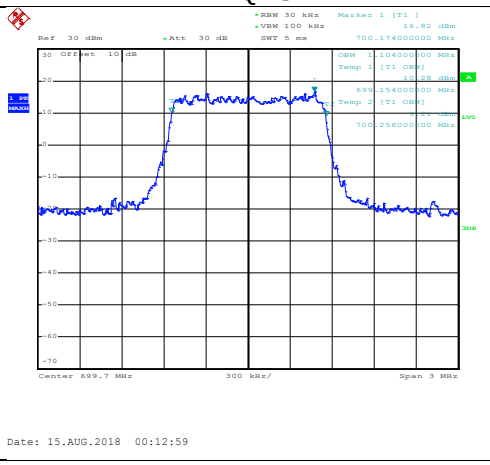
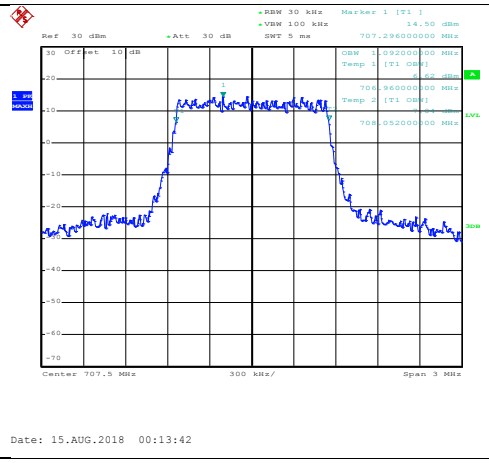
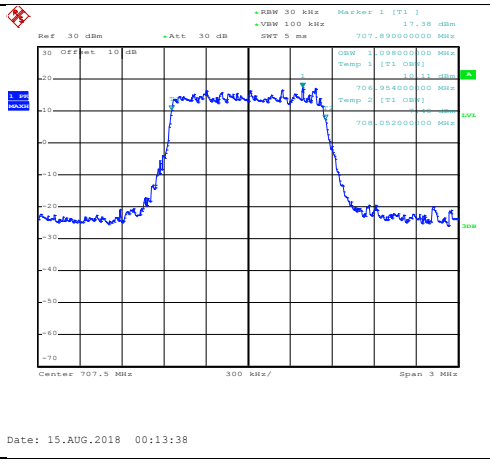
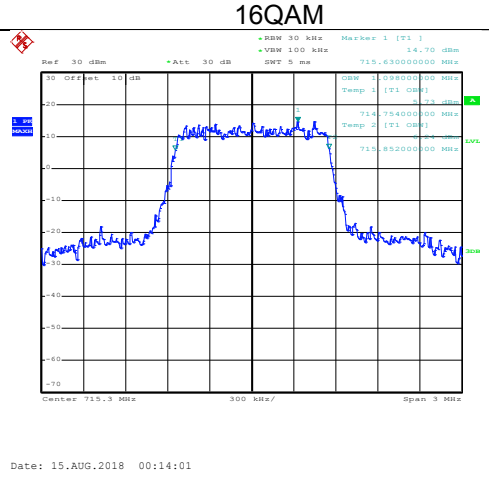
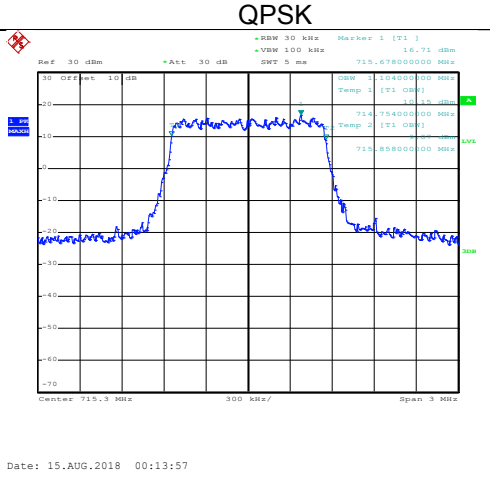
LTE Band 7: -26dBc bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

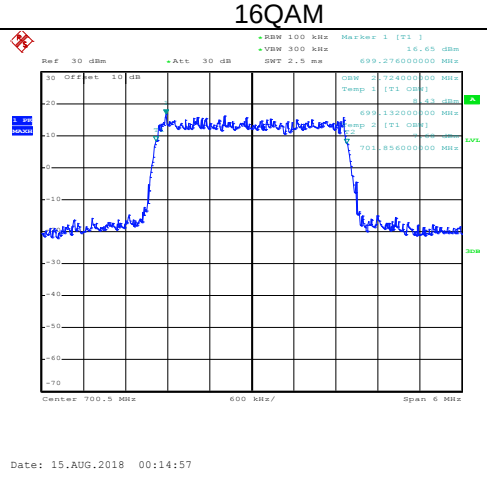
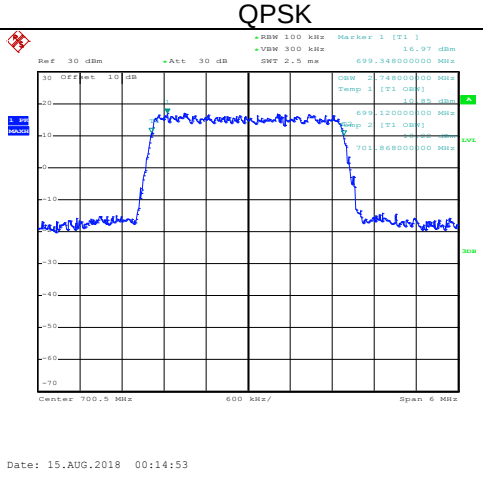
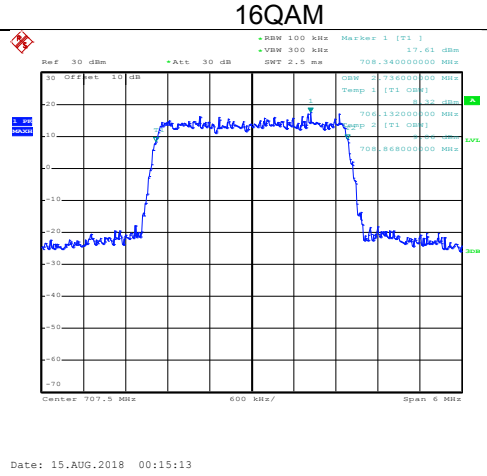
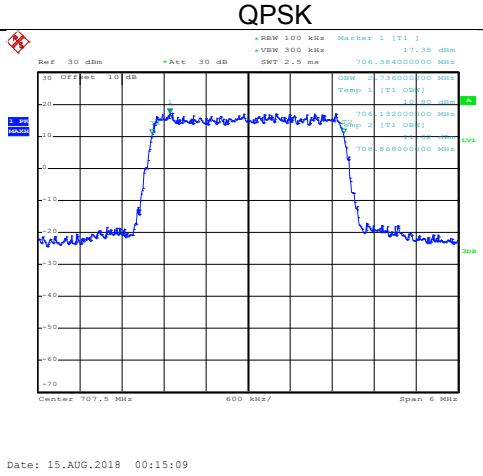
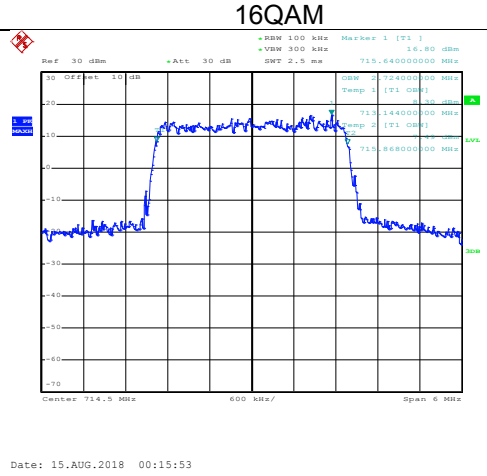
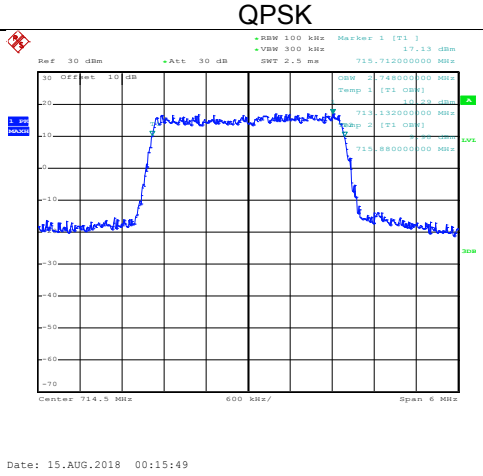
LTE Band 7: -26dBc bandwidth	
BW: 10MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

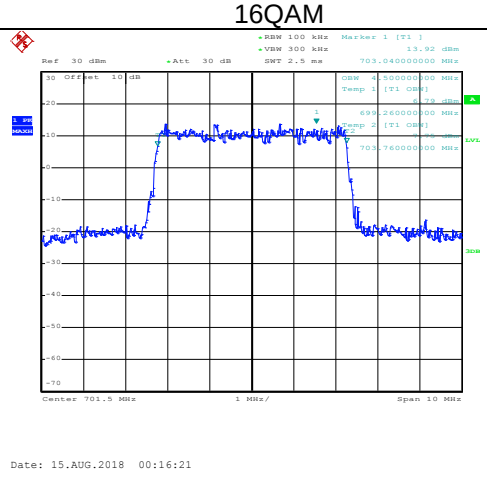
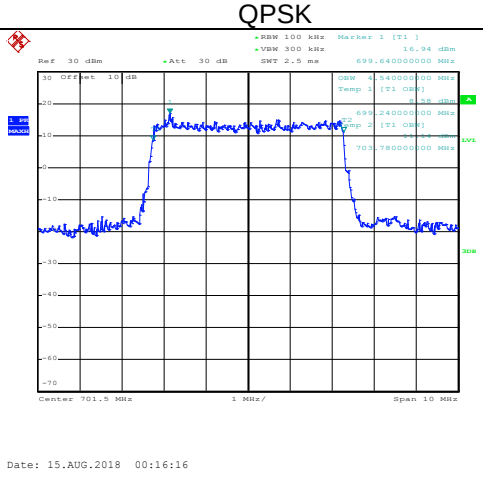
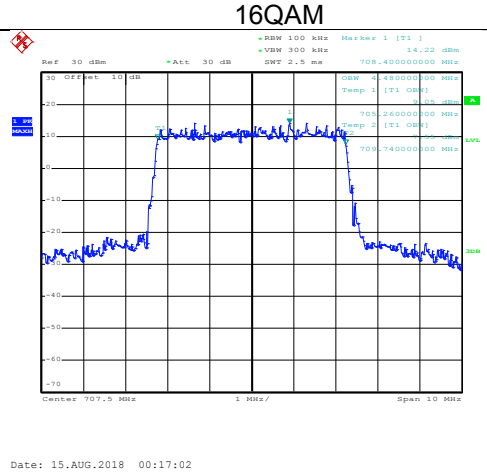
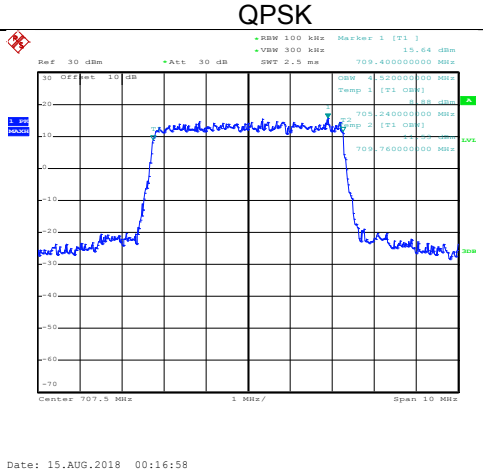
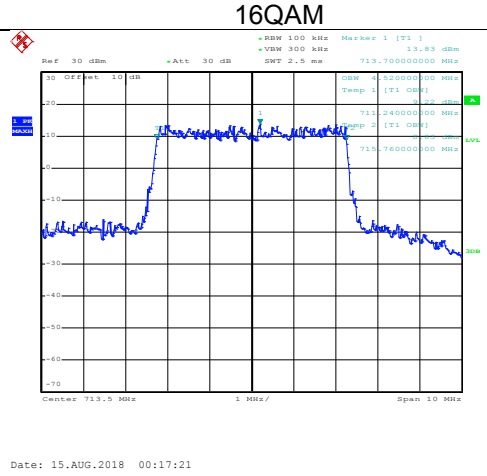
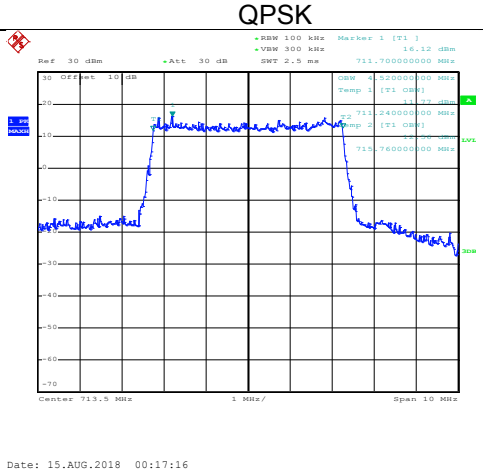
LTE Band 7: -26dBc bandwidth	
BW: 15MHz	
16QAM	QPSK
	
Date: 15.AUG.2018 00:08:55	Date: 15.AUG.2018 00:08:51
Lowest channel	
16QAM	QPSK
	
Date: 15.AUG.2018 00:09:15	Date: 15.AUG.2018 00:09:10
Middle channel	
16QAM	QPSK
	
Date: 15.AUG.2018 00:09:50	Date: 15.AUG.2018 00:09:46
Highest channel	

LTE Band 7: -26dBc bandwidth	
BW: 20MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

LTE Band 12 part:

LTE Band 12: 99% Occupy bandwidth	
BW: 1.4MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

LTE Band 12: 99% Occupy bandwidth	
BW: 3MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	

LTE Band 12: 99% Occupy bandwidth	
BW: 5MHz	
16QAM	QPSK
	
Lowest channel	
16QAM	QPSK
	
Middle channel	
16QAM	QPSK
	
Highest channel	