

FCC REPORT

(LTE)

Applicant: Ingram Micro Mexico,S.A. DE C.V.

Address of Applicant: Laguna de Terminos 249, Anahuac, Miguel Hidalgo, Mexico

Equipment Under Test (EUT)

Product Name: LTE tablet

Model No.: W808B

Trade mark: L1BRE

FCC ID: 2AK7BW808B

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L

Date of sample receipt: 08 Jan., 2018

Date of Test: 08 Jan., to 24 Feb., 2018

Date of report issued: 24 Feb., 2018

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	24 Feb., 2018	Original

Tested by:

YT Yang

Date:

24 Feb., 2018

Test Engineer

Reviewed by:

Wimer Zhang

Date:

24 Feb., 2018

Project Engineer

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4. Test Summary

Test Items	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 24.232 (c) Part 27.50 (d)(4)	Pass
Peak-to-Average Ratio	Part 24.232 (d) Part 27.50(d)(5)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 24.238(b) Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 24.238 (a) Part 27.53 (h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 24.238 (a) Part 27.53 (h)	Pass
Out of band emission, Band Edge	Part 24.238 (a) Part 27.53 (h)	Pass
Frequency stability vs. temperature	Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 24.235 Part 27.54 Part 2.1055(d)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.

5. General Information

5.1 Client Information

Applicant:	Ingram Micro Mexico,S.A. DE C.V.
Address:	Laguna de Terminos 249, Anahuac, Miguel Hidalgo, Mexico
Manufacturer/ Factory:	Ingram Micro Mexico,S.A. DE C.V.
Address:	Laguna de Terminos 249, Anahuac, Miguel Hidalgo, Mexico

5.2 General Description of E.U.T.

Product Name:	LTE tablet
Model No.:	W808B
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz, RX: 1930MHz-1990MHz LTE Band 4: TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz
Modulation type:	QPSK, 16QAM
Antenna type:	Internal Antenna
Antenna gain:	LTE Band 2: 0.94dBi LTE Band 4: 0.94dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V 3000mAh

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

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

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.7Vdc, 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)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.6 Related Submittal(s) / Grant (s)

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

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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

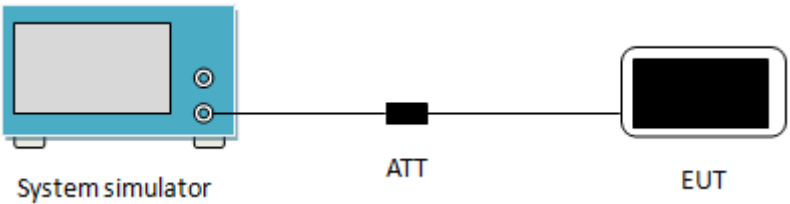
Shenzhen Zhongjian Nanfang Testing Co., Ltd.
 Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
 Bao'an District, Shenzhen, Guangdong, China
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

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	02-25-2017	02-24-2018
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2017	02-24-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	02-25-2017	02-24-2018
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	02-25-2017	02-24-2018
Pre-amplifier	CD	PAP-1G18	11804	02-25-2017	02-24-2018
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2017	02-24-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2017	02-24-2018
Spectrum Analyzer	Agilent	N9020A	MY50510123	10-29-2017	10-28-2018
Signal Generator	Rohde & Schwarz	SMX	835454/016	02-25-2017	02-24-2018
Signal Generator	R&S	SMR20	1008100050	02-25-2017	02-24-2018
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Cable	ZDECL	Z108-NJ-NJ-81	1608458	02-25-2017	02-24-2018
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2017	02-24-2018
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2017	02-24-2018
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2017	10-30-2018
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2017	09-23-2018
Simulated Station	Rohde & Schwarz	CMW500	140493	06-24-2017	06-23-2018

6. Test results

6.1 Conducted Output Power

Test Requirement:	Part 24.232(c), Part 27.50(d)(4),
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2: 2W, LTE Band 4: 1W
Test Setup:	 <p>The diagram illustrates the test setup. On the left is a blue 'System simulator' with a screen and two ports. A line connects it to a black square labeled 'ATT' (attenuator). Another line connects the 'ATT' to a black rectangle labeled 'EUT' (Equipment Under Test).</p>
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:

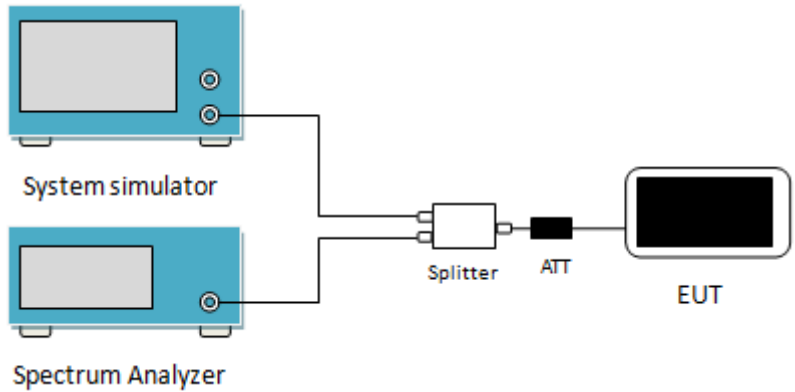
LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
2	1.4	QPSK	1	0	22.75	22.35	22.69
			1	2	22.68	22.65	22.58
			1	5	22.56	22.47	22.70
			3	0	21.53	21.19	21.45
			3	1	21.68	21.26	21.76
			3	2	21.75	21.17	21.82
		16QAM	6	0	21.99	21.23	21.84
			1	0	22.58	21.15	21.68
			1	2	22.32	21.13	21.84
			1	5	22.54	21.20	21.86
			3	0	21.87	20.23	21.78
			3	1	21.84	21.35	21.77
			3	2	21.69	21.25	21.79
			6	0	20.88	20.56	20.86
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	22.31	22.16	22.56
			1	7	22.43	21.84	22.61
			1	14	22.52	21.88	22.61
			8	0	21.42	20.86	21.59
			8	4	21.53	20.92	21.65
			8	7	21.61	20.91	21.78
		16QAM	15	0	21.49	20.88	21.64
			1	0	21.53	21.49	21.69
			1	7	21.71	21.32	21.73
			1	14	21.74	21.35	21.72
			8	0	20.56	20.45	20.59
			8	4	20.58	20.36	20.73
			8	7	20.71	20.66	20.68
			15	0	20.56	20.41	20.74
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	22.56	22.58	22.41
			1	12	22.41	22.36	22.15
			1	24	22.15	22.13	22.33
			12	0	21.46	21.23	21.42
			12	6	21.05	21.21	21.13
			12	11	21.16	21.42	21.13
			25	0	21.05	21.04	21.06
		16QAM	1	0	21.85	21.76	21.71
			1	12	21.42	21.26	21.15
			1	24	21.06	21.05	21.11
			12	0	20.59	20.68	20.46
			12	6	20.55	20.69	20.71
			12	11	20.56	20.58	20.48
			25	0	20.51	20.57	20.63

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	22.66	22.64	22.63
			1	24	22.71	22.70	22.67
			1	49	22.62	22.68	22.69
			25	0	21.93	21.87	21.90
			25	12	21.95	21.88	21.86
			25	24	21.68	21.75	21.75
		16QAM	50	0	21.45	21.43	21.39
			1	0	21.86	21.85	21.87
			1	24	21.62	21.63	21.62
			1	49	21.58	21.59	21.54
			25	0	21.66	21.65	21.63
			25	12	21.16	21.05	21.12
			25	24	20.89	20.87	20.81
			50	0	20.41	20.52	20.83
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	22.56	22.45	22.62
			1	37	22.62	22.59	22.58
			1	74	22.59	22.45	22.41
			36	0	21.49	21.38	21.56
			36	16	21.26	21.13	21.14
			36	35	21.05	21.19	21.22
			75	0	20.85	20.86	20.79
		16QAM	1	0	21.85	21.82	21.76
			1	37	21.46	21.53	21.51
			1	74	21.44	21.62	21.54
			36	0	21.02	21.06	21.11
			36	16	20.89	20.84	20.86
			36	35	20.76	20.71	20.75
			75	0	20.55	20.46	20.63
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	22.56	22.48	22.41
			1	49	22.26	22.23	22.16
			1	99	22.41	22.13	22.05
			50	0	21.86	21.84	21.74
			50	24	21.66	21.65	21.63
			50	49	21.24	21.22	21.35
			100	0	21.06	21.11	21.15
		16QAM	1	0	21.86	21.84	21.71
			1	49	21.15	21.59	21.65
			1	99	21.41	21.55	21.35
			50	0	21.32	21.45	21.66
			50	24	20.86	20.74	20.46
			50	49	20.58	20.39	20.36
			100	0	20.39	20.34	20.33

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	22.59	22.26	22.76
			1	2	22.36	22.04	22.81
			1	5	22.61	22.17	22.51
			3	0	21.48	21.25	21.92
			3	1	21.45	21.21	21.80
			3	2	21.54	21.20	21.84
		16QAM	6	0	21.53	21.34	22.06
			1	0	21.98	21.49	22.38
			1	2	21.78	21.62	21.91
			1	5	21.74	21.73	22.05
			3	0	21.58	21.45	22.04
			3	1	21.36	21.45	21.96
			3	2	21.65	21.36	21.94
			6	0	20.56	20.35	20.93
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	22.69	22.58	22.41
			1	7	22.59	22.42	22.43
			1	14	22.14	22.43	22.01
			8	0	21.74	21.56	21.44
			8	4	21.16	21.54	21.69
			8	7	21.20	21.25	21.26
		16QAM	15	0	21.05	21.03	21.14
			1	0	21.88	21.56	21.75
			1	7	21.62	21.44	21.56
			1	14	21.41	21.35	21.34
			8	0	21.15	21.13	21.14
			8	4	20.88	21.78	20.75
			8	7	20.46	20.88	20.65
			15	0	20.54	20.43	20.34
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	22.64	22.68	22.63
			1	12	22.26	22.58	22.59
			1	24	22.21	22.16	22.09
			12	0	21.16	21.44	21.41
			12	6	21.55	21.15	21.36
			12	11	21.23	21.21	21.20
		16QAM	25	0	20.86	20.83	20.77
			1	0	21.86	21.48	21.55
			1	12	21.15	21.26	21.34
			1	24	21.56	21.41	21.23
			12	0	20.88	20.87	20.46
			12	6	20.59	20.55	20.36
			12	11	20.48	20.44	20.41
			25	0	20.55	20.48	20.39

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	22.49	22.50	22.48
			1	24	22.30	22.32	22.39
			1	49	22.19	22.05	22.44
			25	0	21.62	21.45	21.16
			25	12	21.26	21.33	21.34
			25	24	21.19	21.26	21.05
			50	0	20.89	20.77	20.76
		16QAM	1	0	22.46	22.51	22.45
			1	24	22.63	22.36	22.41
			1	49	22.16	22.10	22.09
			25	0	21.86	21.85	21.84
			25	12	21.16	21.06	21.12
			25	24	20.89	20.87	20.99
			50	0	20.45	20.56	20.47
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	22.48	22.51	22.42
			1	37	22.39	22.32	22.36
			1	74	22.41	22.55	22.59
			36	0	21.63	21.74	21.56
			36	16	21.14	21.54	21.42
			36	35	21.16	21.55	21.69
			75	0	20.88	20.87	20.46
		16QAM	1	0	21.56	21.48	21.66
			1	37	21.55	21.54	21.53
			1	74	21.47	21.49	21.59
			36	0	20.88	20.75	20.96
			36	16	21.16	20.89	20.72
			36	35	20.66	20.48	20.56
			75	0	20.44	20.45	20.68
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	22.63	22.53	22.44
			1	49	22.49	22.62	22.39
			1	99	22.25	22.66	22.59
			50	0	21.86	21.85	21.88
			50	24	21.75	21.59	21.86
			50	49	21.69	21.65	21.74
			100	0	21.56	21.26	21.19
		16QAM	1	0	21.85	21.84	21.86
			1	49	21.56	21.75	21.66
			1	99	21.52	21.24	21.53
			50	0	21.16	21.11	21.06
			50	24	20.74	20.65	20.80
			50	49	20.65	20.68	20.67
			100	0	20.72	20.45	20.35

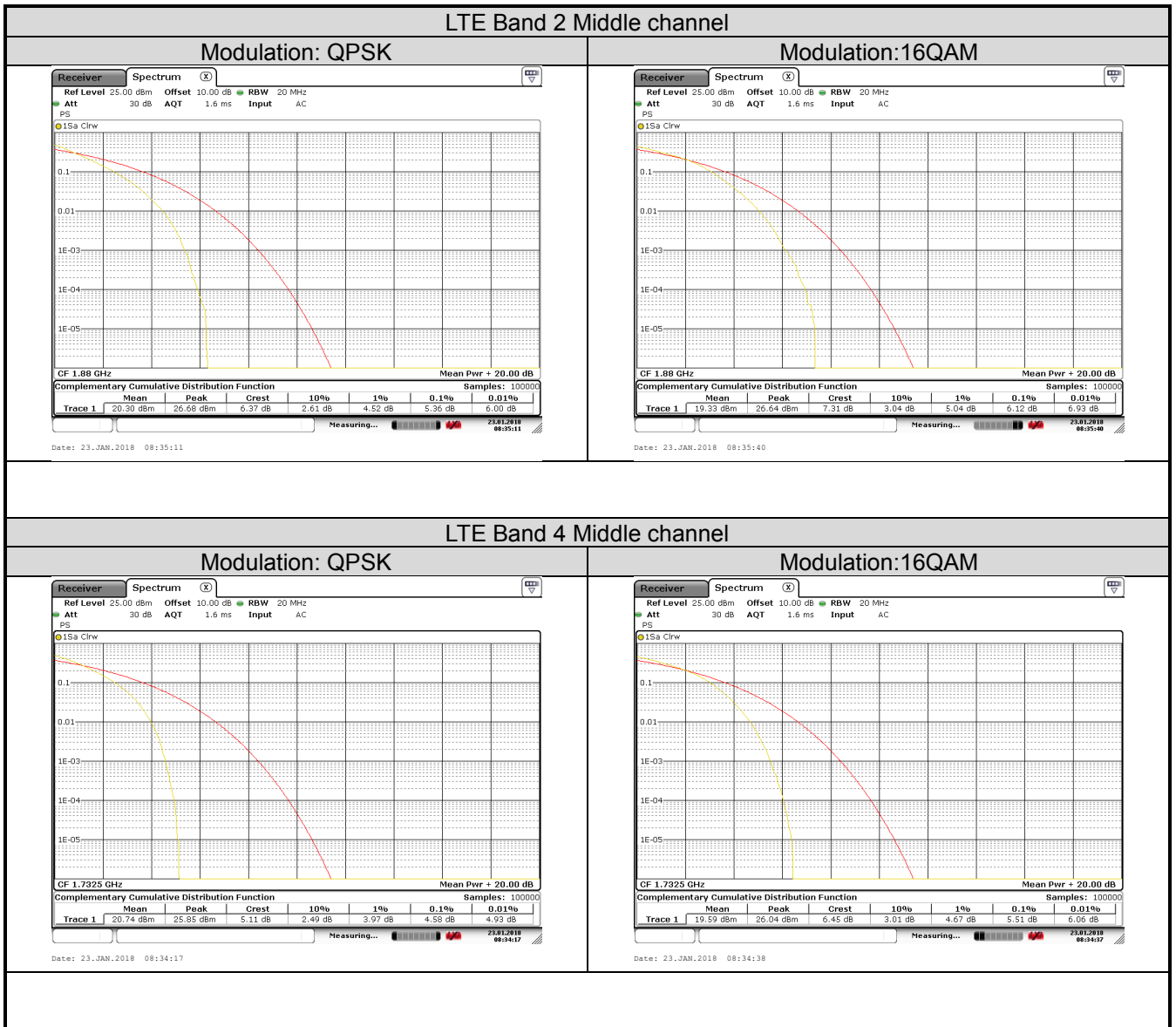
6.2 Peak-to-Average Ratio

Test Requirement:	Part 24.232 (d), Part 27.50(d)(5)
Test Method:	ANSI/TIA-603-D 2010
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 <p>The diagram shows a test setup for measuring Peak-to-Average Ratio (PAR). It consists of a System simulator and a Spectrum Analyzer connected to a Splitter. The Splitter is connected to an ATT (Attenuator) and an EUT (Equipment Under Test).</p>
Test Procedure:	<ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, $RBW \geq OBW$, 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	5.36
	16QAM	100	0	6.12
LTE Band 4 (Middle Channel)				
20MHz	QPSK	100	0	4.58
	16QAM	100	0	5.51

Test plots as below:



6.3 Occupy Bandwidth

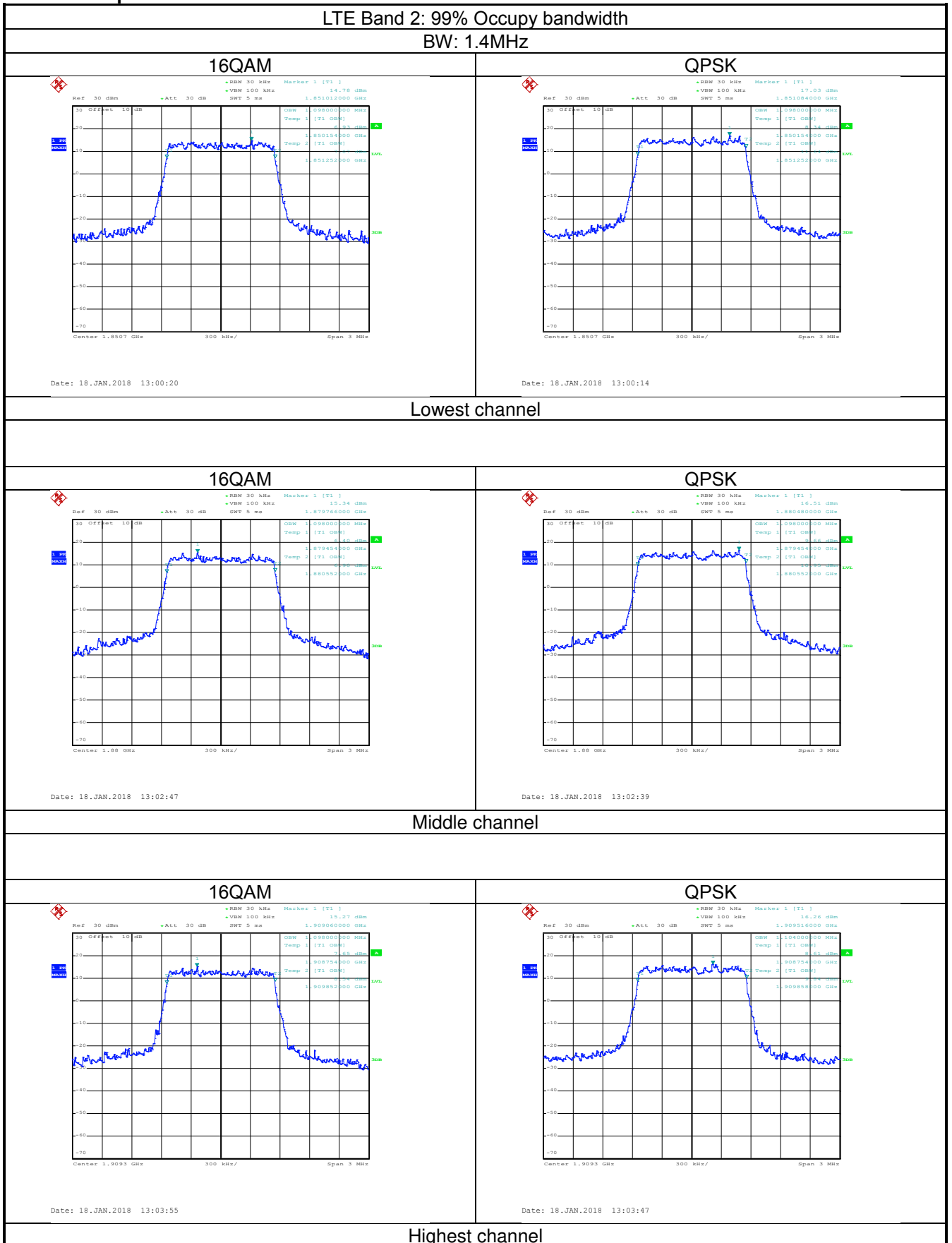
Test Requirement:	Part 24.238(b), Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Test Setup:	<p>The diagram shows a test setup for occupied bandwidth measurement. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a screen and two circular ports on the right side. A cable connects the top port of the System simulator to the top port of the Splitter. Another cable connects the bottom port of the System simulator to the bottom port of the Splitter. The Splitter is a white rectangular unit with three ports on the left and one on the right. A cable connects the right port of the Splitter to the left port of the ATT (Attenuator), which is a small black rectangular unit. Finally, a cable connects the right port of the ATT to the left port of the EUT (Equipment Under Test), which is a black rectangular unit with a screen on the right side.</p>
Test Procedure:	<ol style="list-style-type: none"> 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	1266
			QPSK	1098	1272
	18900	1880.00	16QAM	1098	1260
			QPSK	1098	1272
	19193	1909.30	16QAM	1098	1266
			QPSK	1104	1278
3MHz	18615	1851.50	16QAM	2724	3000
			QPSK	2736	3048
	18900	1880.00	16QAM	2736	3012
			QPSK	2736	3048
	19185	1908.50	16QAM	2712	3024
			QPSK	2736	3048
5MHz	18625	1852.50	16QAM	4520	4920
			QPSK	4540	5020
	18900	1880.00	16QAM	4520	5020
			QPSK	4520	4960
	19175	1907.50	16QAM	4520	4980
			QPSK	4520	5020
10MHz	18650	1855.00	16QAM	9040	10120
			QPSK	9120	10280
	18900	1880.00	16QAM	9120	10200
			QPSK	9080	10200
	19150	1905.00	16QAM	9120	10160
			QPSK	9080	10280
15MHz	18675	1857.50	16QAM	13500	14820
			QPSK	13500	14940
	18900	1880.00	16QAM	13560	14820
			QPSK	13560	14940
	19125	1902.50	16QAM	13560	14760
			QPSK	13560	14700
20MHz	18700	1860.00	16QAM	17920	19440
			QPSK	18000	19440
	18900	1880.00	16QAM	17920	19360
			QPSK	18000	19520
	19100	1900.00	16QAM	18000	19440
			QPSK	18000	19440

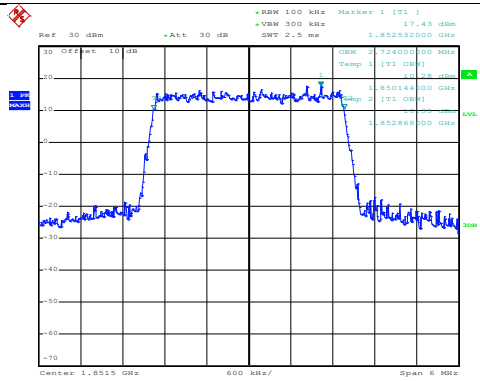
LTE Band 4					
Bandwidth	Channel	Frequency (MHz)	Modulation	99% OBW (kHz)	-26dBcEBW (kHz)
1.4MHz	19957	1710.7	16QAM	1104	1248
			QPSK	1098	1272
	20175	1732.5	16QAM	1092	1254
			QPSK	1098	1278
	20393	1754.3	16QAM	1092	1248
			QPSK	1098	1266
3MHz	19965	1711.5	16QAM	2724	2988
			QPSK	2736	3036
	20175	1732.5	16QAM	2724	2988
			QPSK	2748	3048
	20385	1750.5	16QAM	2736	2988
			QPSK	2736	3048
5MHz	19975	1712.5	16QAM	4520	4920
			QPSK	4520	5000
	20175	1732.5	16QAM	4520	4980
			QPSK	4540	5000
	20375	1752.5	16QAM	4520	4980
			QPSK	4520	5040
10MHz	20000	1715.0	16QAM	9080	10160
			QPSK	9120	10240
	20175	1732.5	16QAM	9080	10120
			QPSK	9080	10240
	20350	1750.0	16QAM	9120	10080
			QPSK	9080	10320
15MHz	20025	1717.5	16QAM	13500	14760
			QPSK	13560	14940
	20175	1732.5	16QAM	13560	14820
			QPSK	13560	14880
	20325	1747.5	16QAM	13560	14940
			QPSK	13500	14940
20MHz	20050	1720.0	16QAM	17840	19120
			QPSK	17920	19440
	20175	1732.5	16QAM	18000	19200
			QPSK	18000	19520
	20300	1745.0	16QAM	18000	19200
			QPSK	18080	19600

Test plot as follows:
LTE Band 2 part:



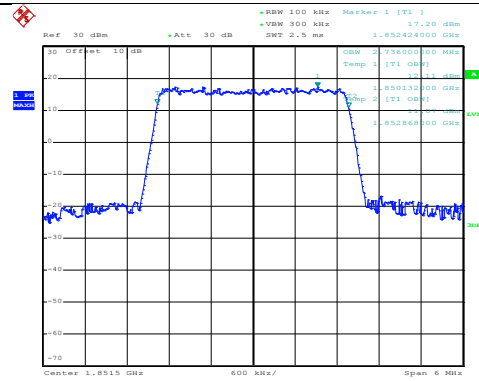
LTE Band 2: 99% Occupy bandwidth
 BW: 3MHz

16QAM



Date: 18.JAN.2018 13:09:13

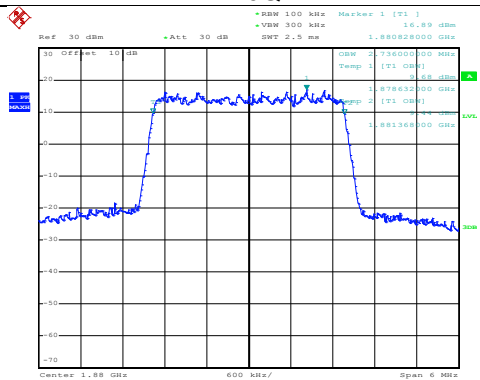
QPSK



Date: 18.JAN.2018 13:09:07

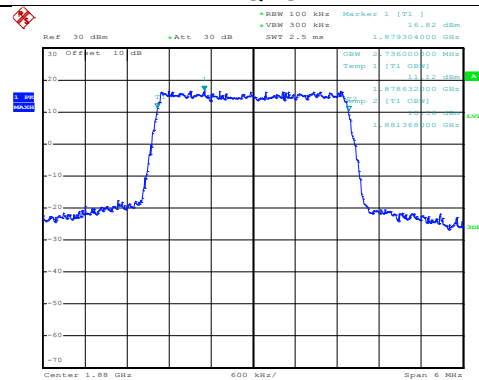
Lowest channel

16QAM



Date: 18.JAN.2018 13:10:21

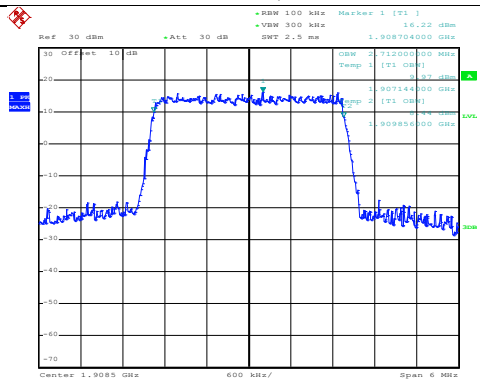
QPSK



Date: 18.JAN.2018 13:10:14

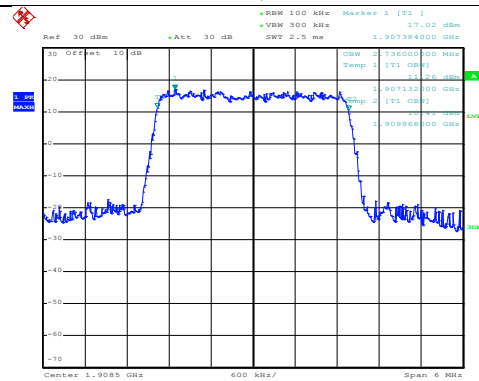
Middle channel

16QAM



Date: 18.JAN.2018 13:10:52

QPSK

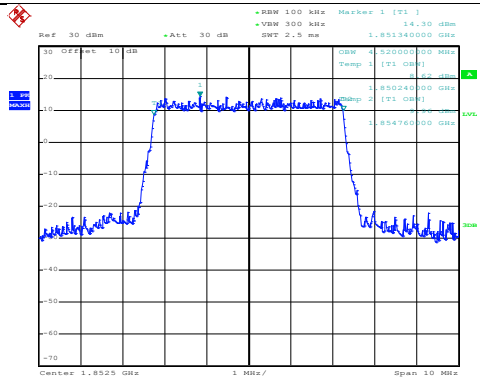


Date: 18.JAN.2018 13:10:44

Highest channel

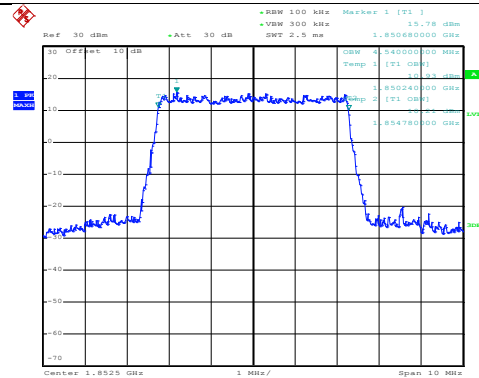
LTE Band 2: 99% Occupy bandwidth
 BW: 5MHz

16QAM



Date: 18.JAN.2018 13:12:14

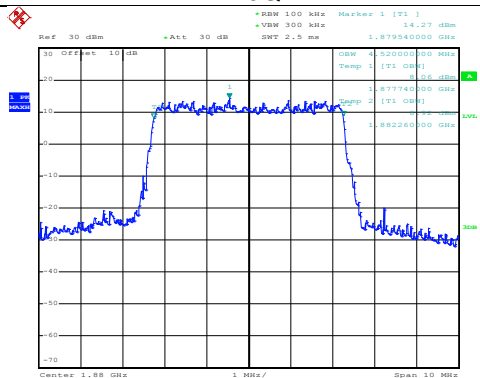
QPSK



Date: 18.JAN.2018 13:12:09

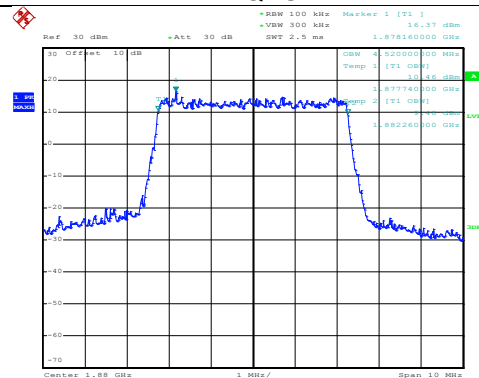
Lowest channel

16QAM



Date: 18.JAN.2018 13:12:38

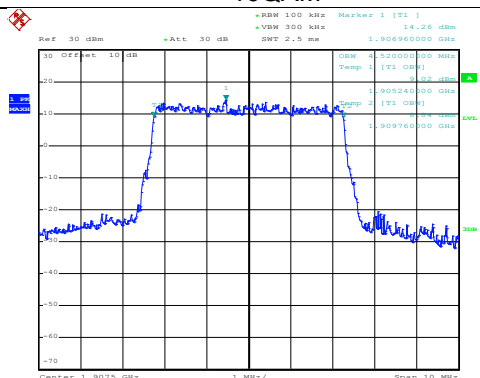
QPSK



Date: 18.JAN.2018 13:12:33

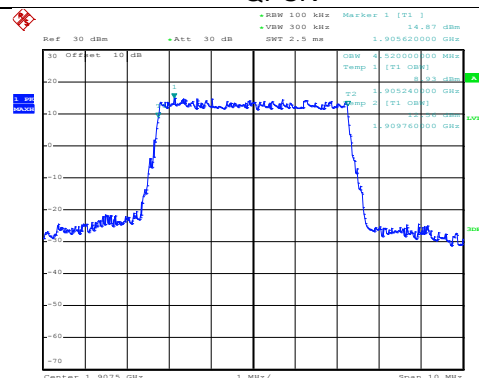
Middle channel

16QAM



Date: 18.JAN.2018 13:13:41

QPSK

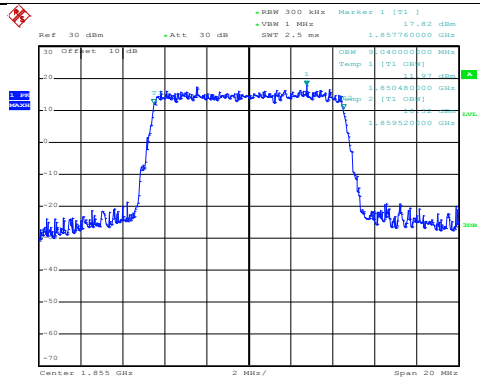


Date: 18.JAN.2018 13:13:34

Highest channel

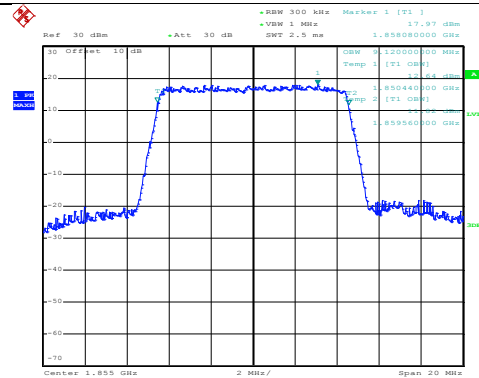
LTE Band 2: 99% Occupy bandwidth
BW: 10MHz

16QAM



Date: 18.JAN.2018 13:28:12

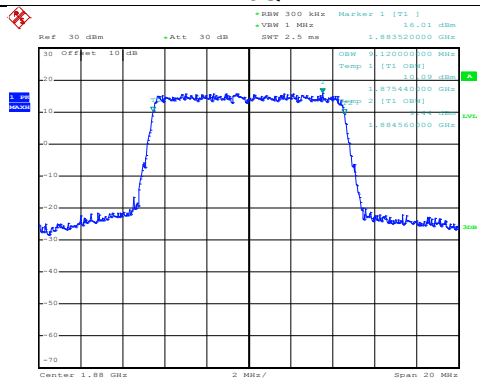
QPSK



Date: 18.JAN.2018 13:28:06

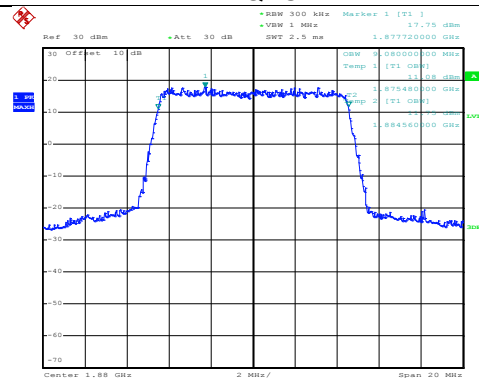
Lowest channel

16QAM



Date: 18.JAN.2018 13:29:06

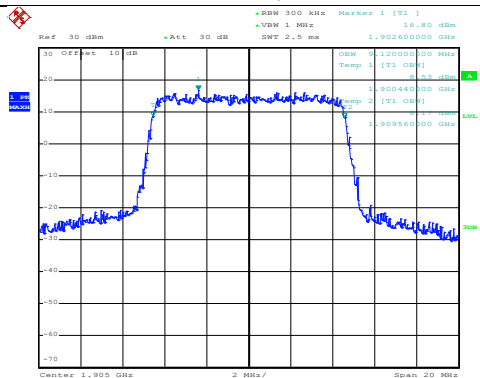
QPSK



Date: 18.JAN.2018 13:29:00

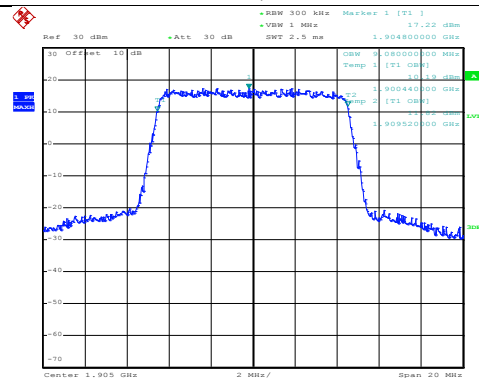
Middle channel

16QAM



Date: 18.JAN.2018 13:29:27

QPSK

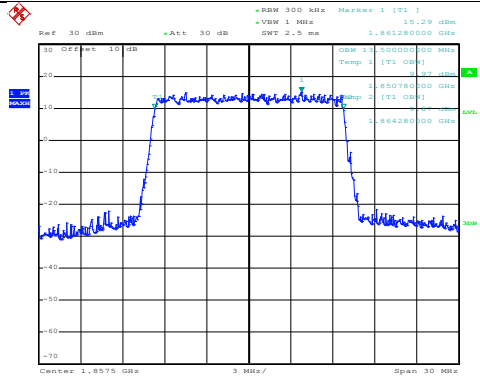


Date: 18.JAN.2018 13:29:22

Highest channel

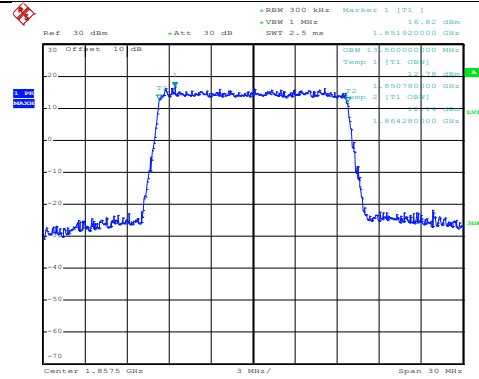
LTE Band 2: 99% Occupy bandwidth
BW: 15MHz

16QAM



Date: 18.JAN.2018 13:18:17

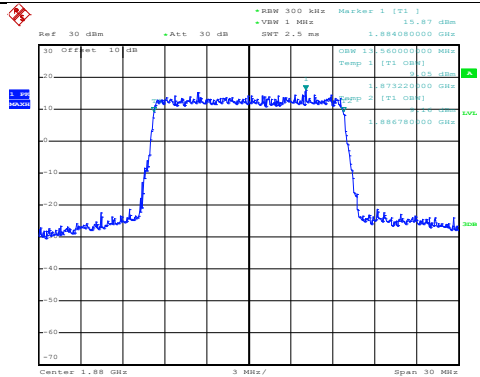
QPSK



Date: 18.JAN.2018 13:18:10

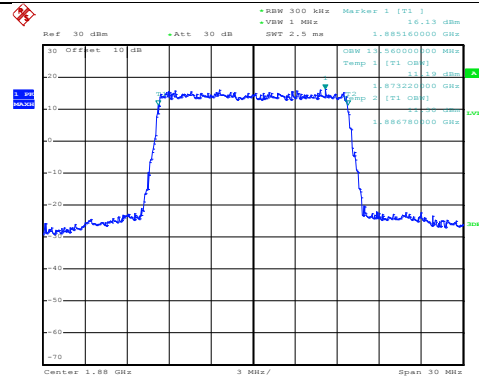
Lowest channel

16QAM



Date: 18.JAN.2018 13:18:41

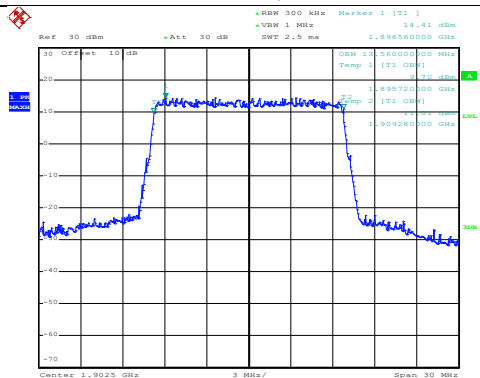
QPSK



Date: 18.JAN.2018 13:18:34

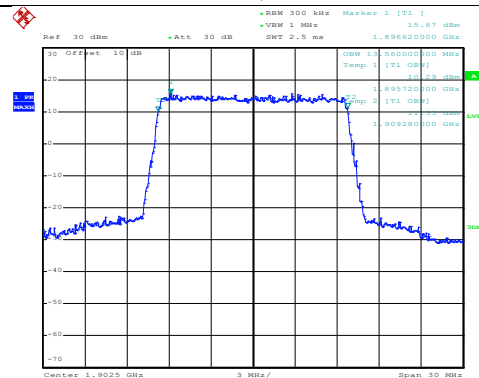
Middle channel

16QAM



Date: 18.JAN.2018 13:19:43

QPSK

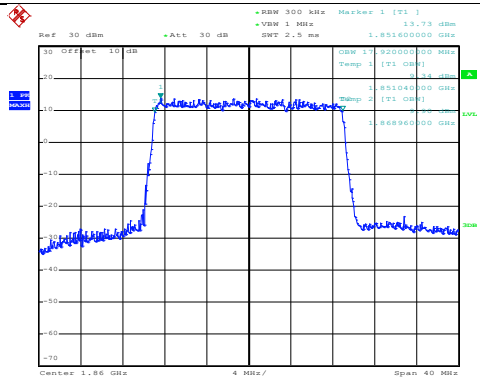


Date: 18.JAN.2018 13:19:36

Highest channel

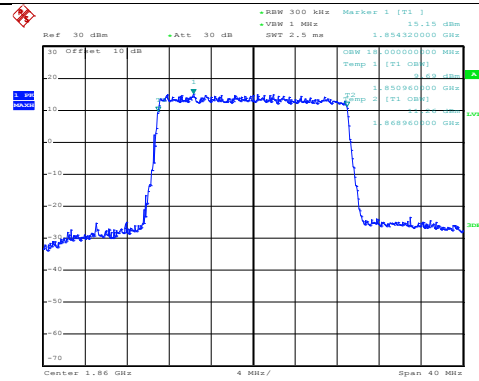
LTE Band 2: 99% Occupy bandwidth
BW: 20MHz

16QAM



Date: 18.JAN.2018 13:20:34

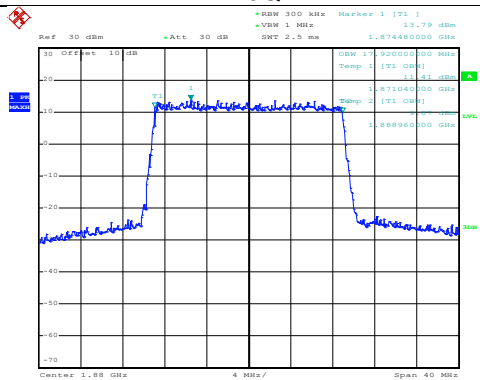
QPSK



Date: 18.JAN.2018 13:20:28

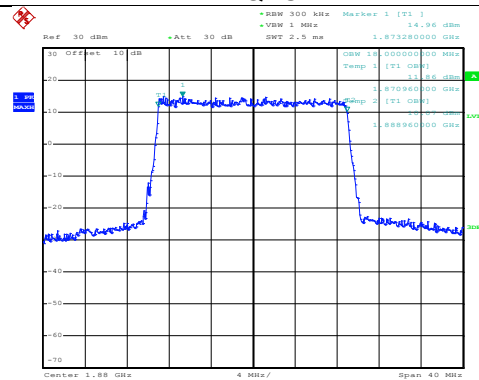
Lowest channel

16QAM



Date: 18.JAN.2018 13:22:14

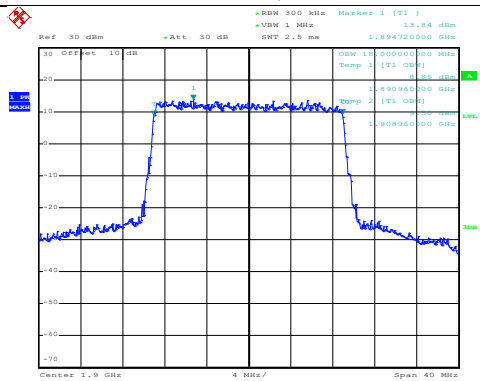
QPSK



Date: 18.JAN.2018 13:22:06

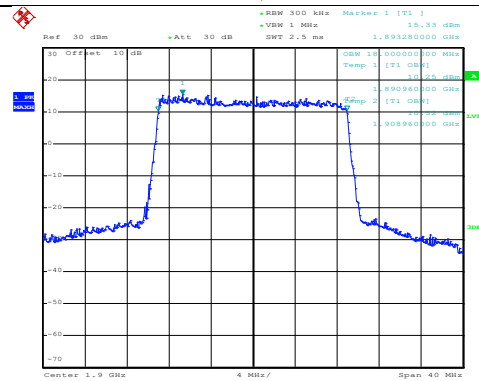
Middle channel

16QAM



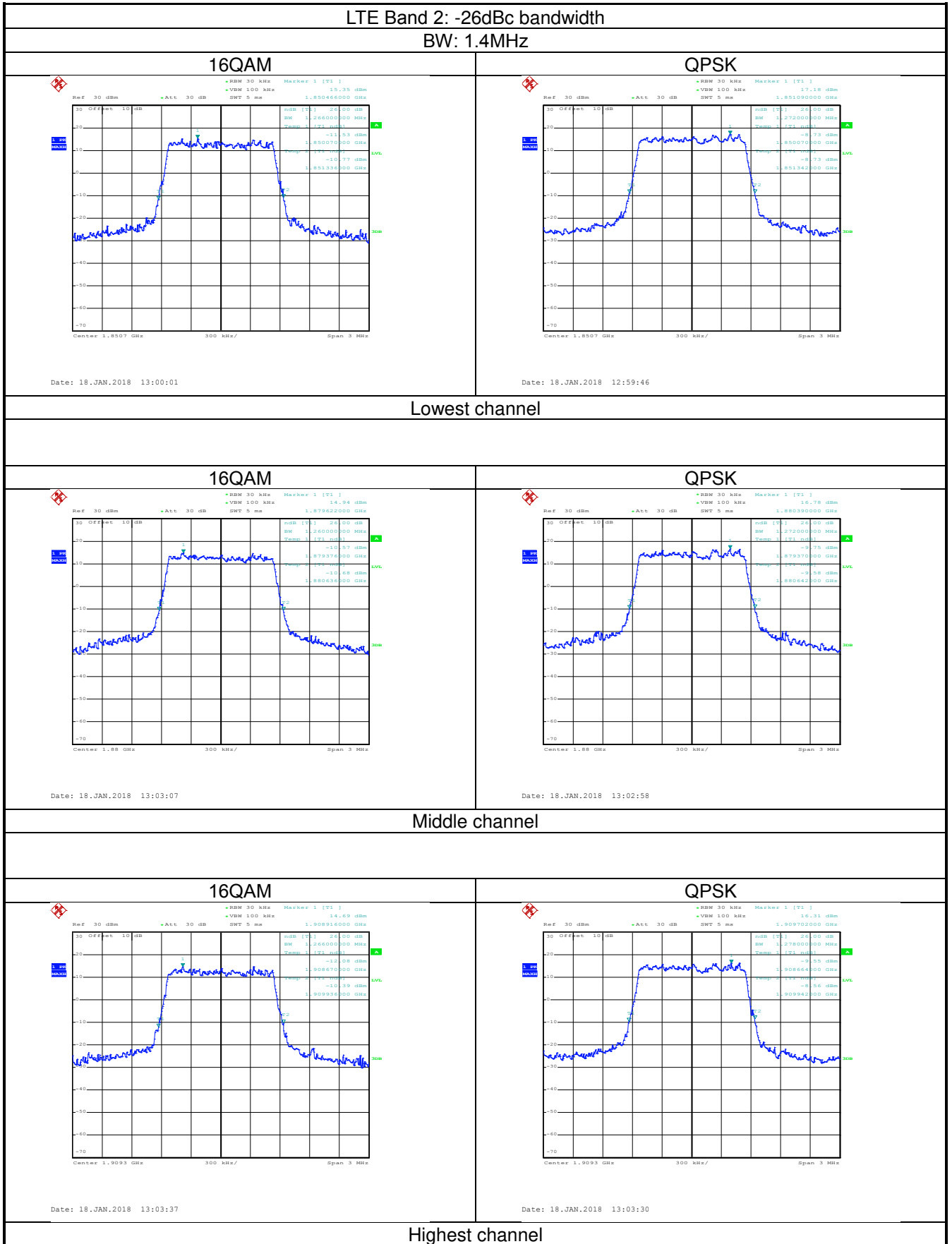
Date: 18.JAN.2018 13:23:27

QPSK



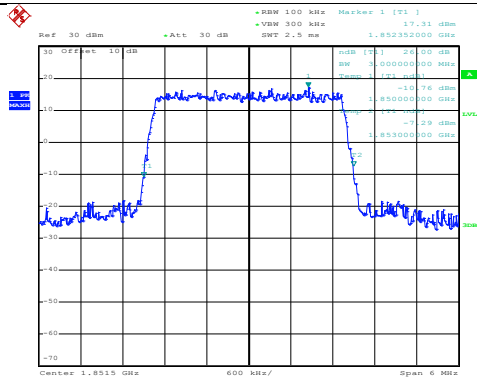
Date: 18.JAN.2018 13:23:18

Highest channel



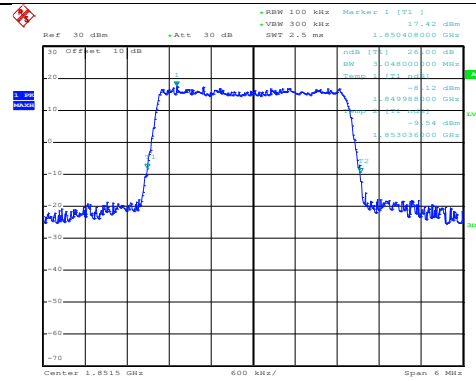
LTE Band 2: -26dBc bandwidth
BW: 3MHz

16QAM



Date: 18.JAN.2018 13:09:34

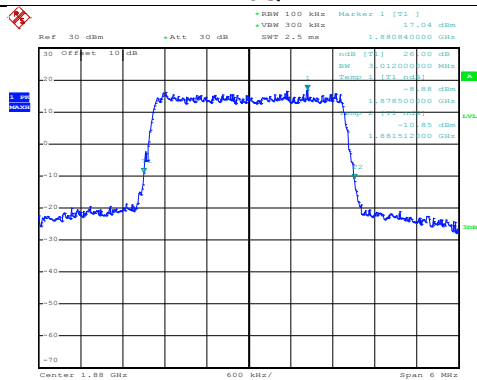
QPSK



Date: 18.JAN.2018 13:09:27

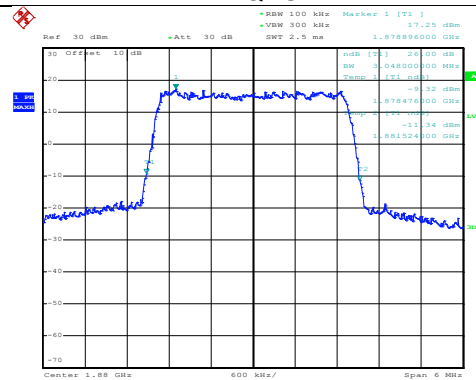
Lowest channel

16QAM



Date: 18.JAN.2018 13:10:04

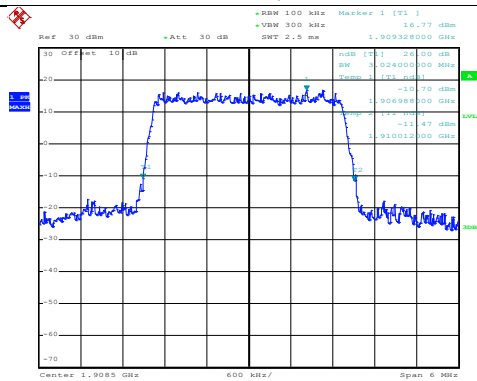
QPSK



Date: 18.JAN.2018 13:09:56

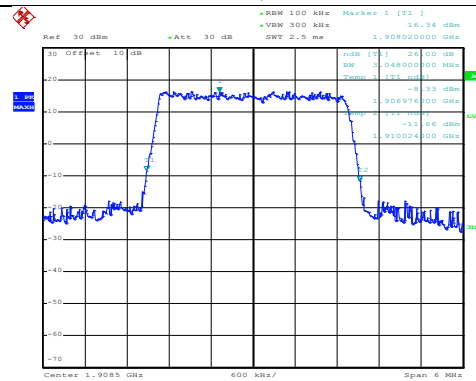
Middle channel

16QAM



Date: 18.JAN.2018 13:11:08

QPSK

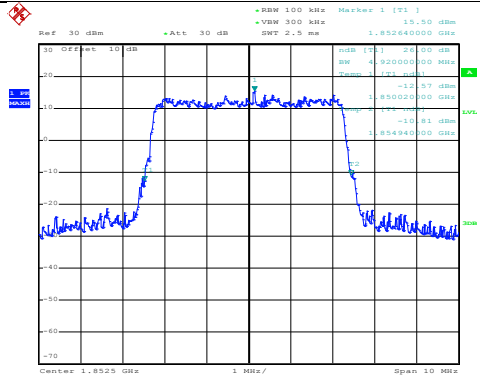


Date: 18.JAN.2018 13:11:00

Highest channel

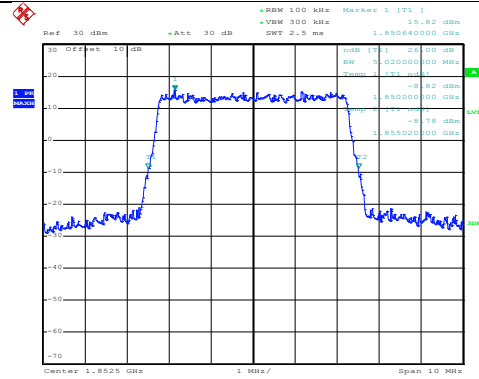
LTE Band 2: -26dBc bandwidth
BW: 5MHz

16QAM



Date: 18.JAN.2018 13:11:57

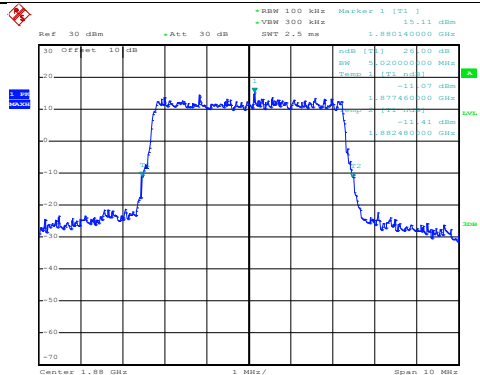
QPSK



Date: 18.JAN.2018 13:11:50

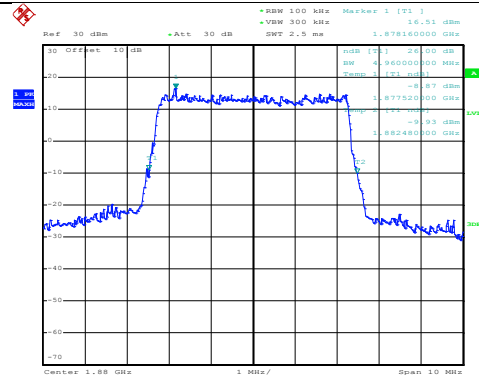
Lowest channel

16QAM



Date: 18.JAN.2018 13:12:55

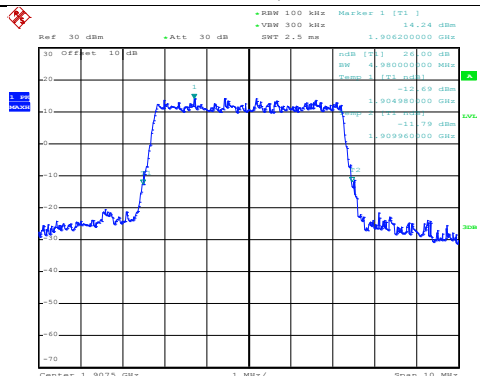
QPSK



Date: 18.JAN.2018 13:12:48

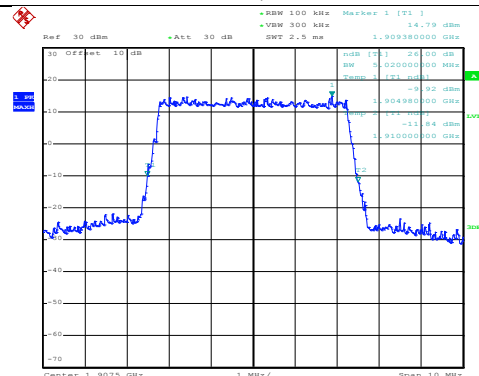
Middle channel

16QAM



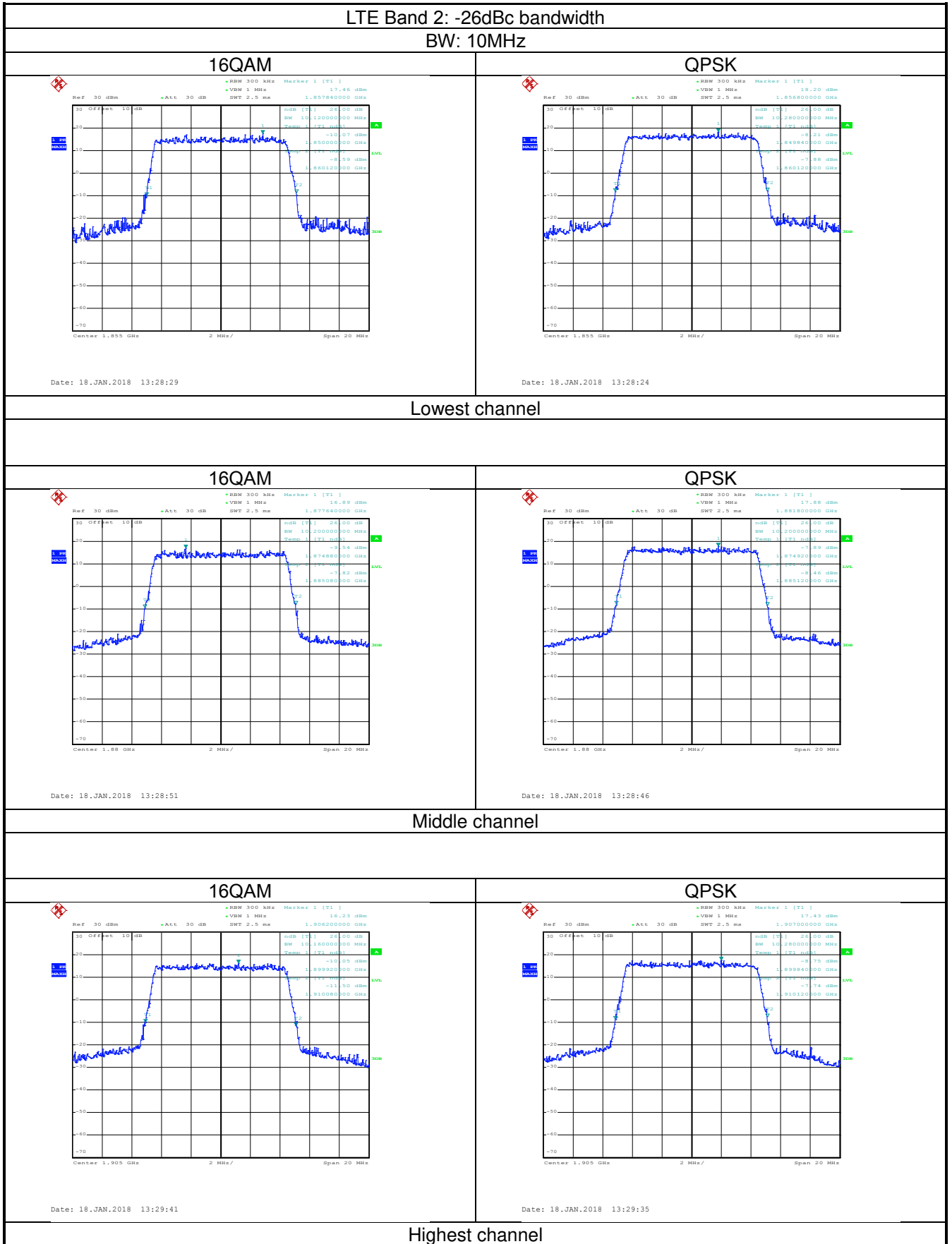
Date: 18.JAN.2018 13:13:22

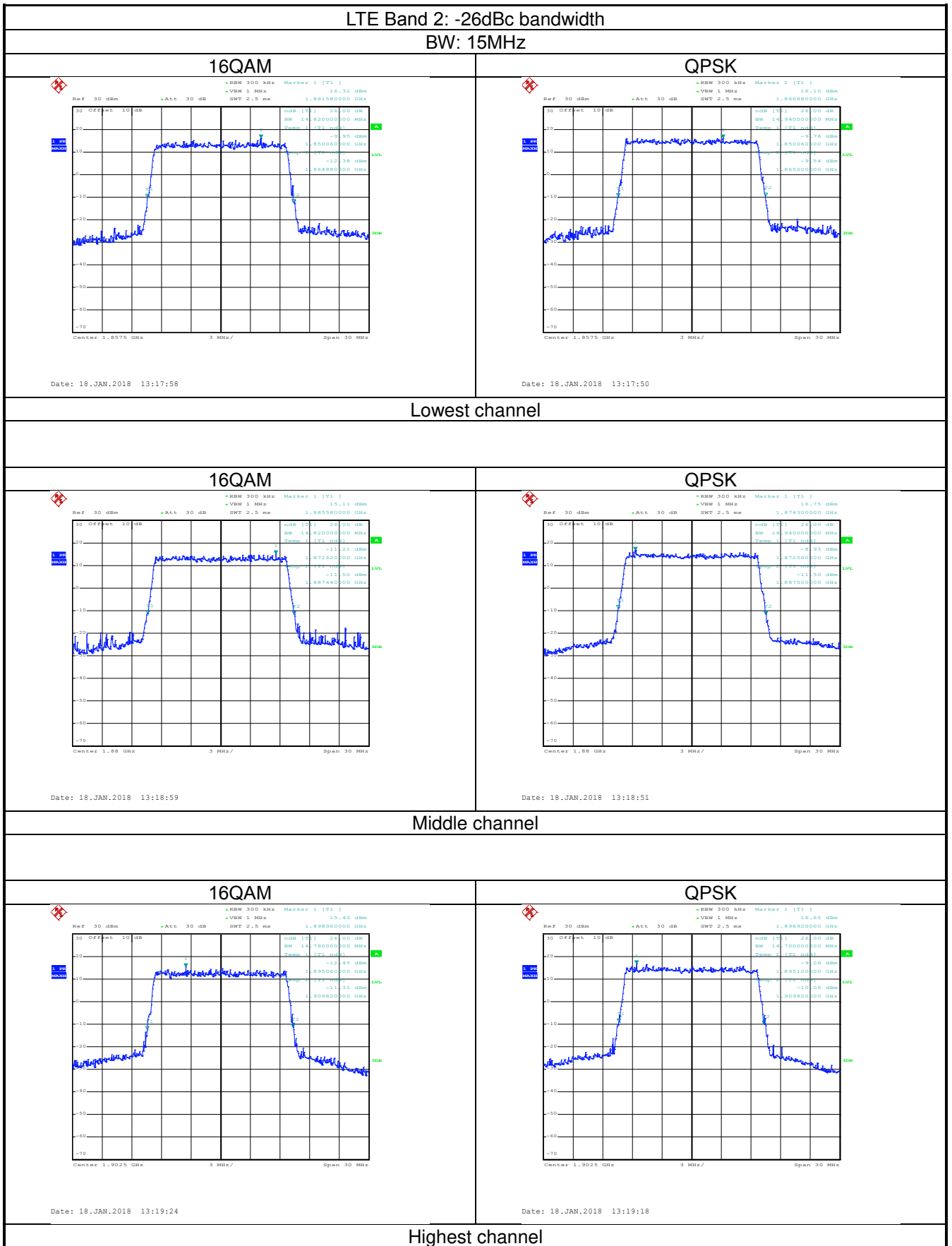
QPSK



Date: 18.JAN.2018 13:13:15

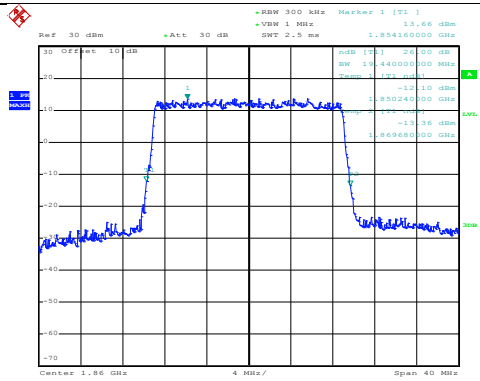
Highest channel





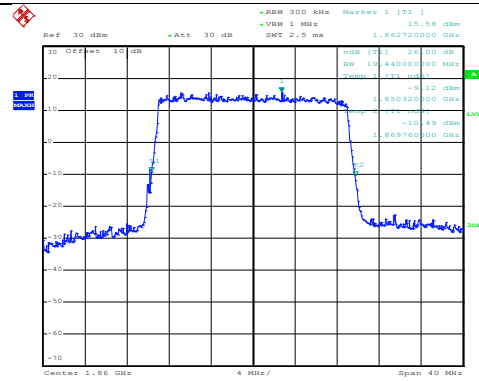
LTE Band 2: -26dBc bandwidth
BW: 20MHz

16QAM



Date: 18.JAN.2018 13:20:53

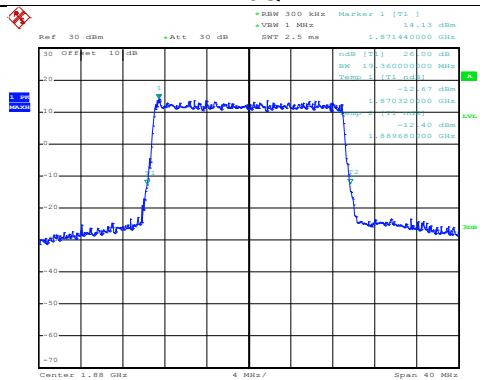
QPSK



Date: 18.JAN.2018 13:20:46

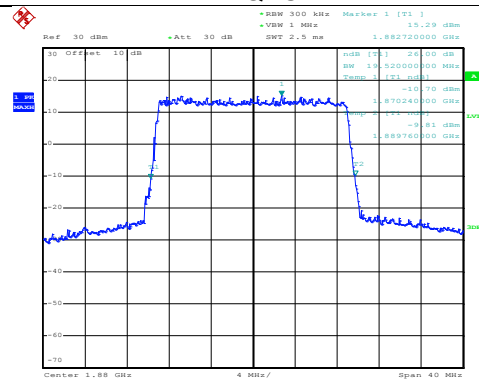
Lowest channel

16QAM



Date: 18.JAN.2018 13:22:35

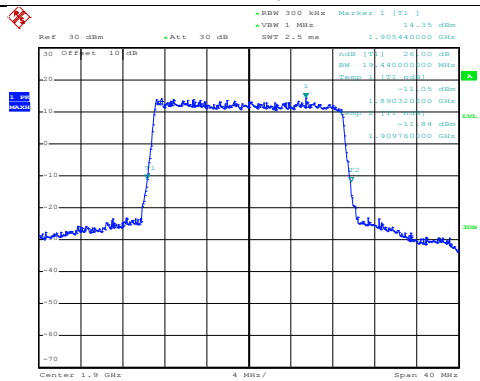
QPSK



Date: 18.JAN.2018 13:22:28

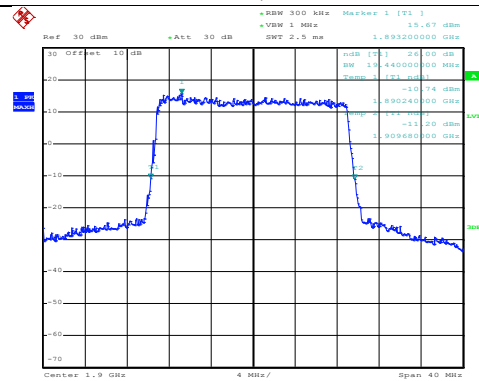
Middle channel

16QAM



Date: 18.JAN.2018 13:23:07

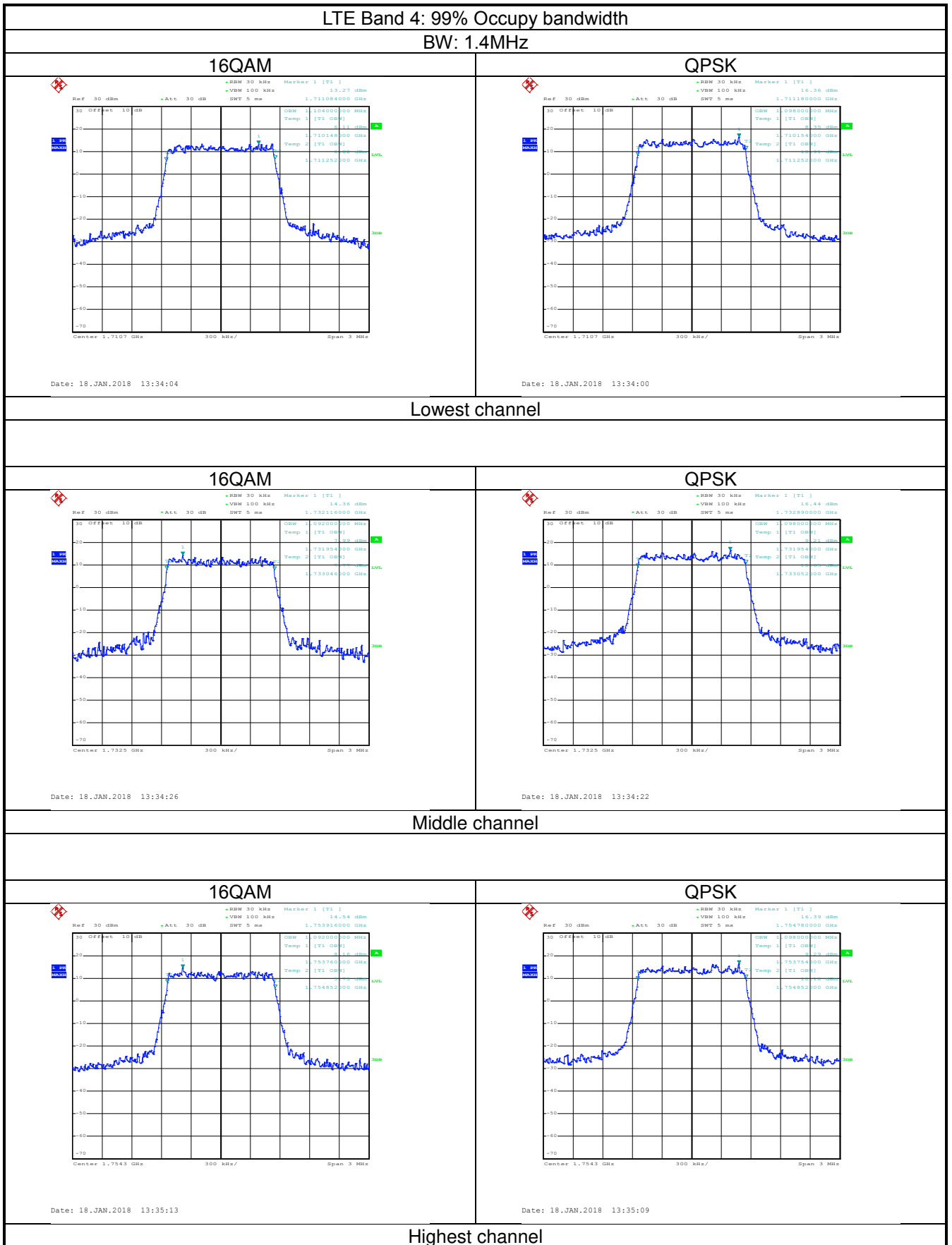
QPSK



Date: 18.JAN.2018 13:22:53

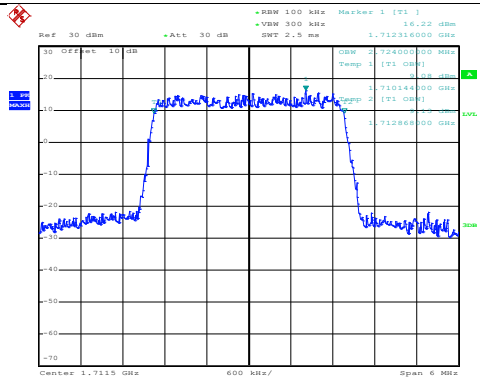
Highest channel

LTE Band 4 part:



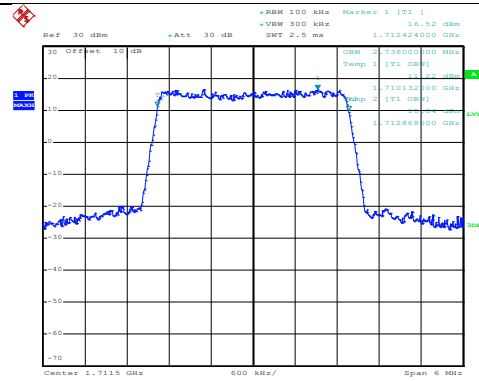
LTE Band 4: 99% Occupy bandwidth
BW: 3MHz

16QAM



Date: 18.JAN.2018 13:35:56

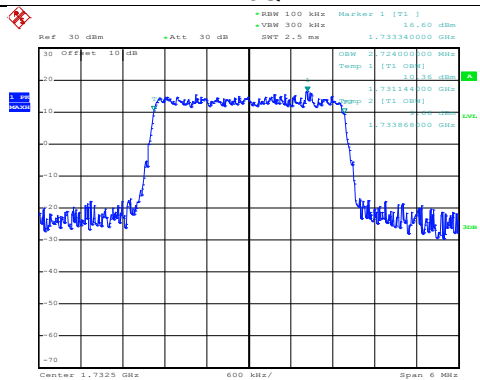
QPSK



Date: 18.JAN.2018 13:35:52

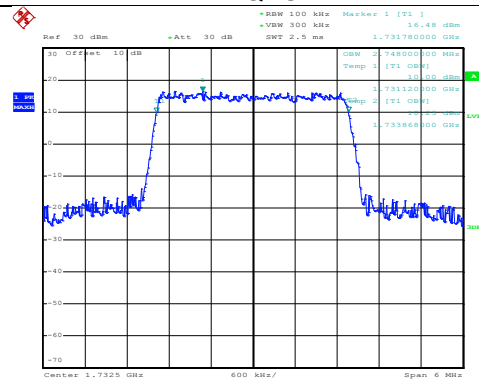
Lowest channel

16QAM



Date: 18.JAN.2018 13:36:45

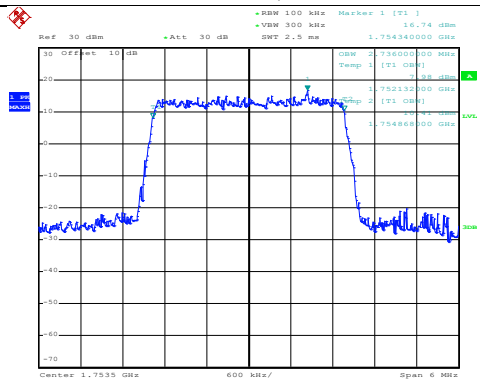
QPSK



Date: 18.JAN.2018 13:36:41

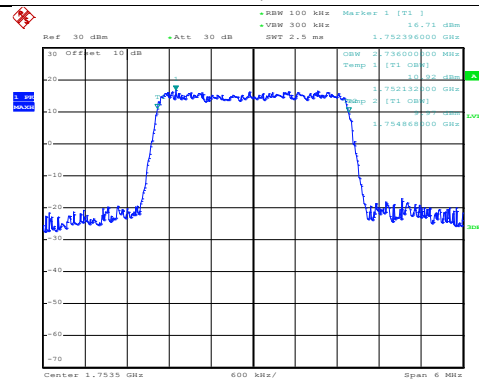
Middle channel

16QAM



Date: 18.JAN.2018 13:37:11

QPSK

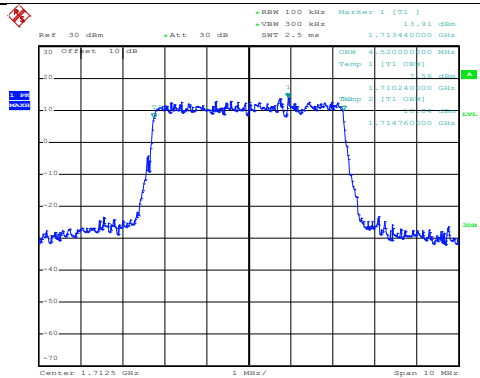


Date: 18.JAN.2018 13:37:06

Highest channel

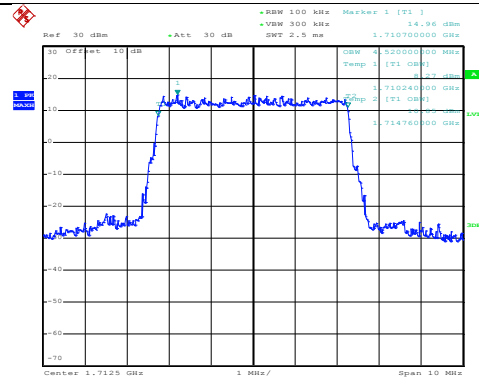
LTE Band 4: 99% Occupancy bandwidth
BW: 5MHz

16QAM



Date: 18.JAN.2018 13:38:16

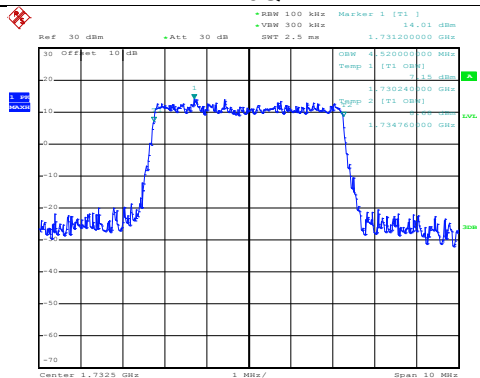
QPSK



Date: 18.JAN.2018 13:38:11

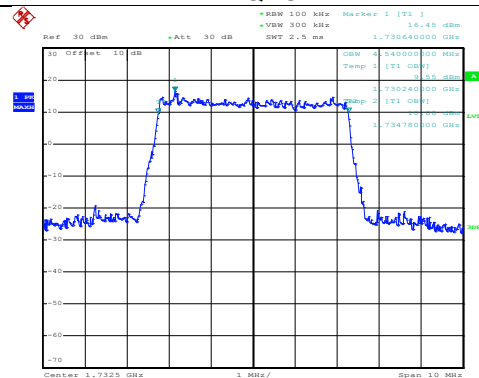
Lowest channel

16QAM



Date: 18.JAN.2018 13:38:38

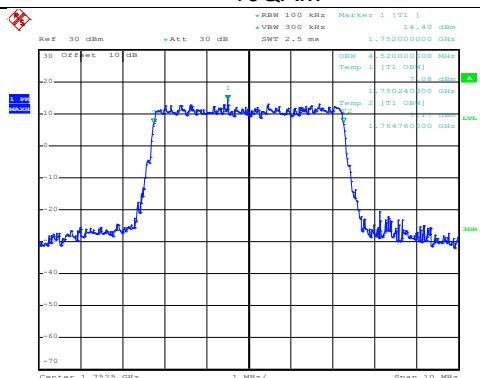
QPSK



Date: 18.JAN.2018 13:38:33

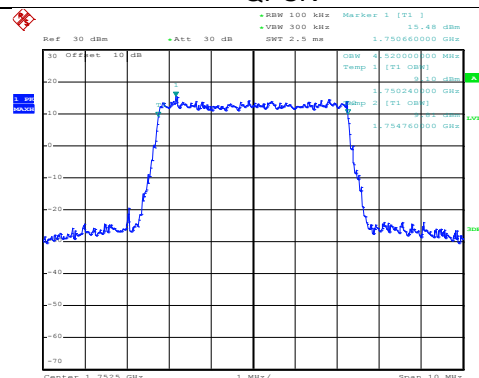
Middle channel

16QAM



Date: 18.JAN.2018 13:39:35

QPSK

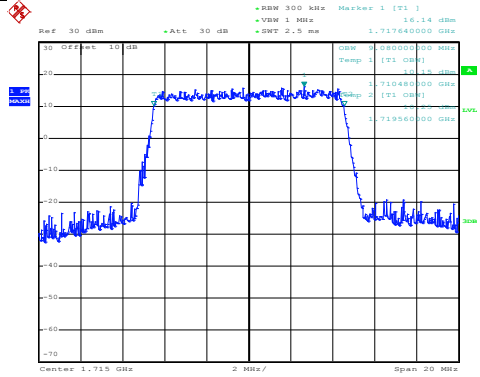


Date: 18.JAN.2018 13:39:30

Highest channel

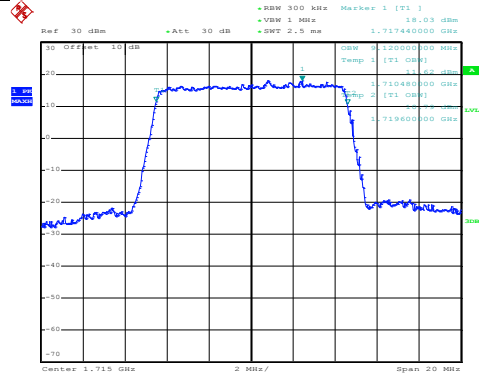
LTE Band 4: 99% Occupy bandwidth
BW: 10MHz

16QAM



Date: 18.JAN.2018 13:40:46

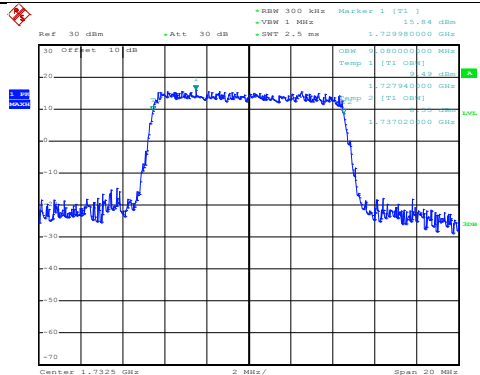
QPSK



Date: 18.JAN.2018 13:40:42

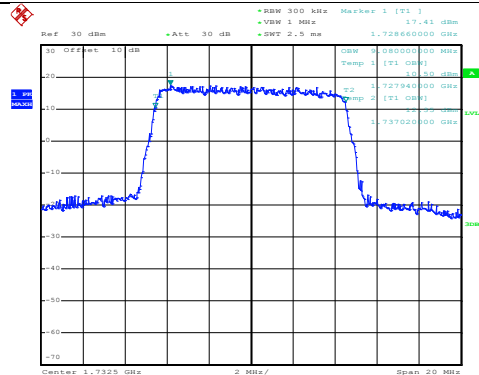
Lowest channel

16QAM



Date: 18.JAN.2018 13:41:34

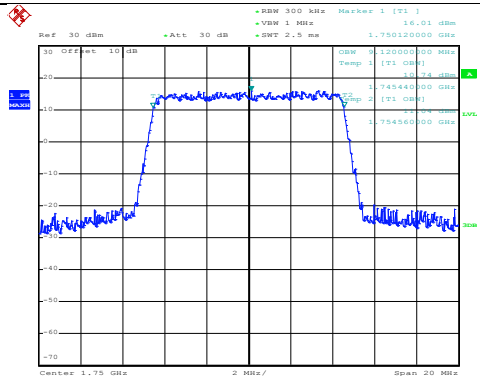
QPSK



Date: 18.JAN.2018 13:41:30

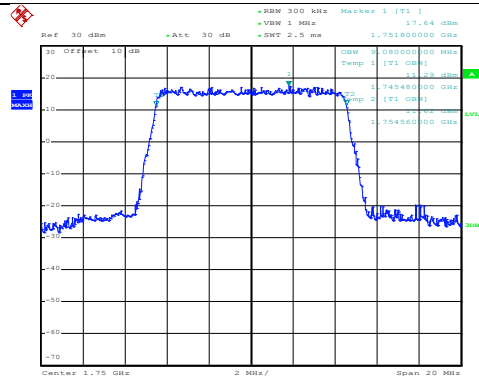
Middle channel

16QAM



Date: 18.JAN.2018 13:41:58

QPSK

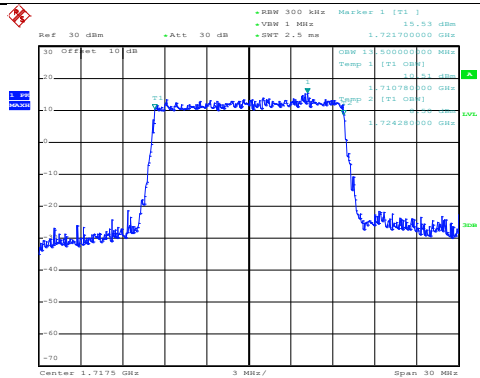


Date: 18.JAN.2018 13:41:51

Highest channel

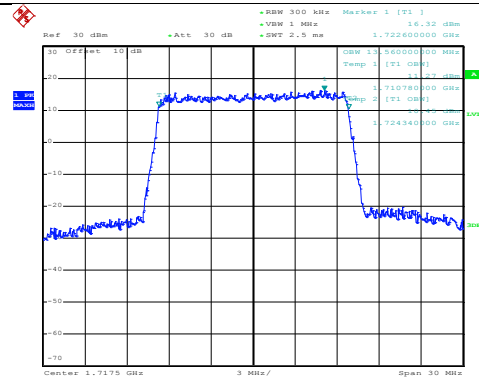
LTE Band 4: 99% Occupy bandwidth
BW: 15MHz

16QAM



Date: 18.JAN.2018 13:43:05

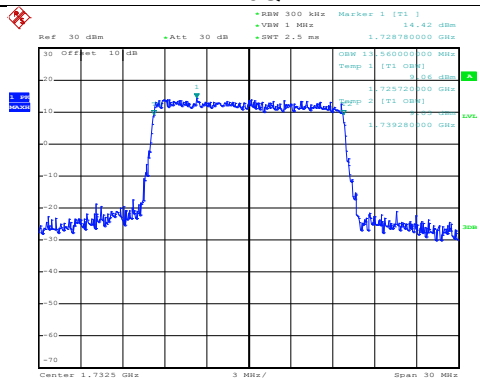
QPSK



Date: 18.JAN.2018 13:43:01

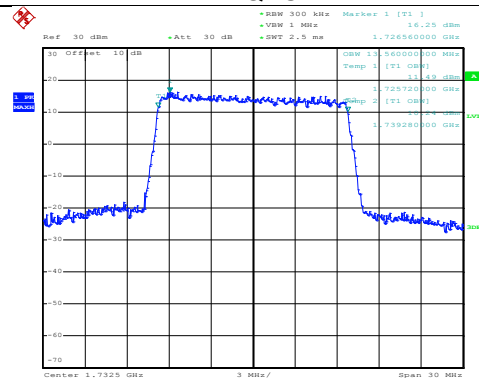
Lowest channel

16QAM



Date: 18.JAN.2018 13:43:25

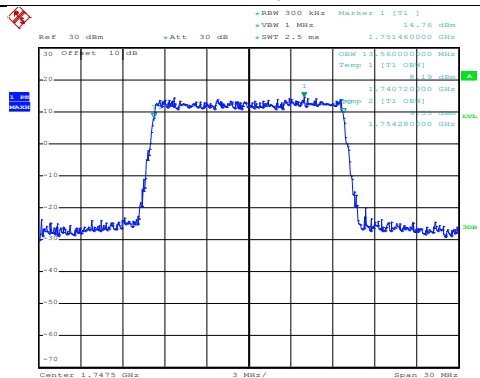
QPSK



Date: 18.JAN.2018 13:43:20

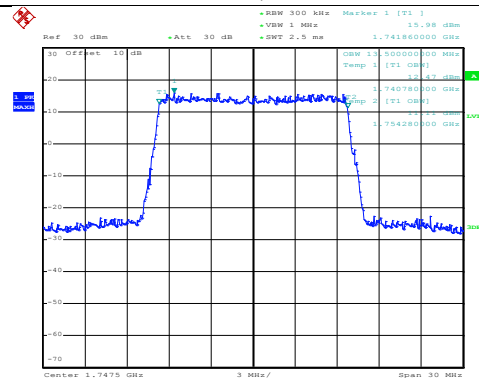
Middle channel

16QAM



Date: 18.JAN.2018 13:44:21

QPSK

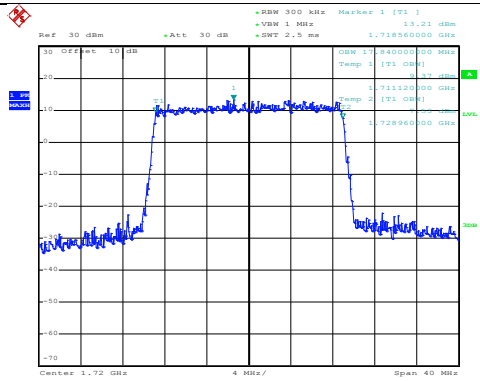


Date: 18.JAN.2018 13:44:16

Highest channel

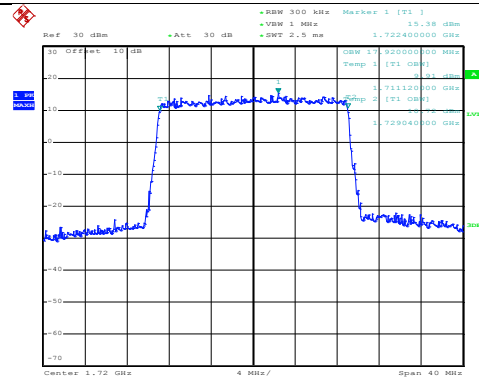
LTE Band 4: 99% Occupy bandwidth
 BW: 20MHz

16QAM



Date: 18.JAN.2018 13:44:58

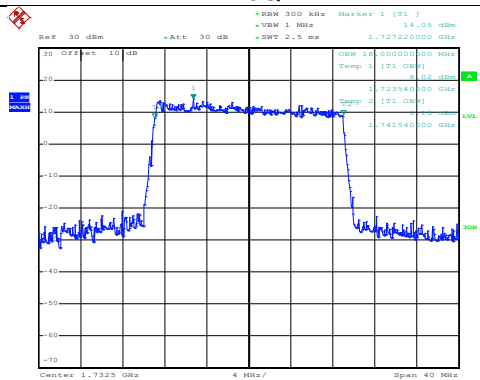
QPSK



Date: 18.JAN.2018 13:44:54

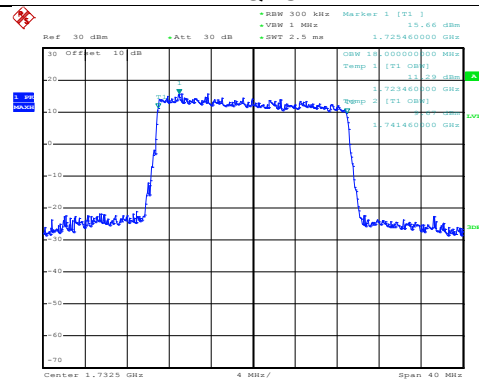
Lowest channel

16QAM



Date: 18.JAN.2018 13:45:52

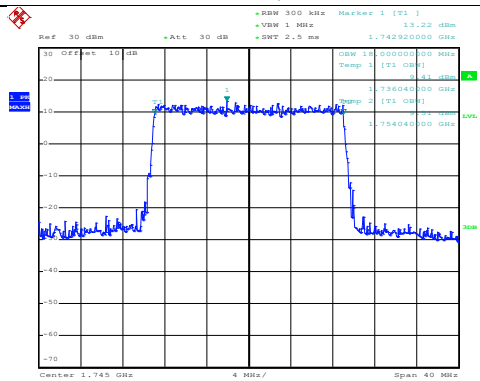
QPSK



Date: 18.JAN.2018 13:45:48

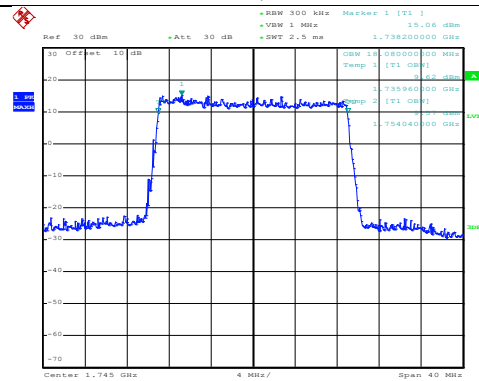
Middle channel

16QAM



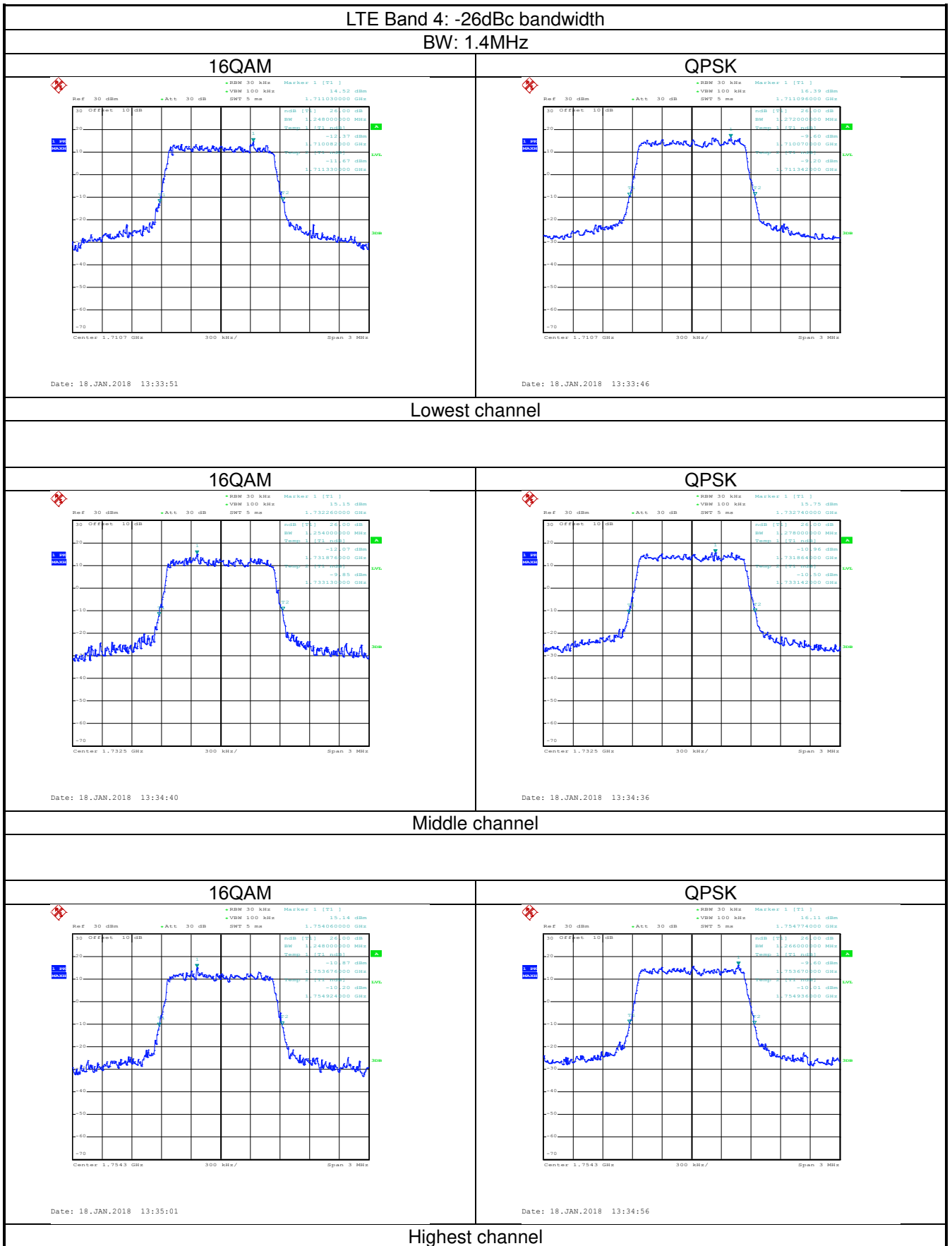
Date: 18.JAN.2018 13:46:11

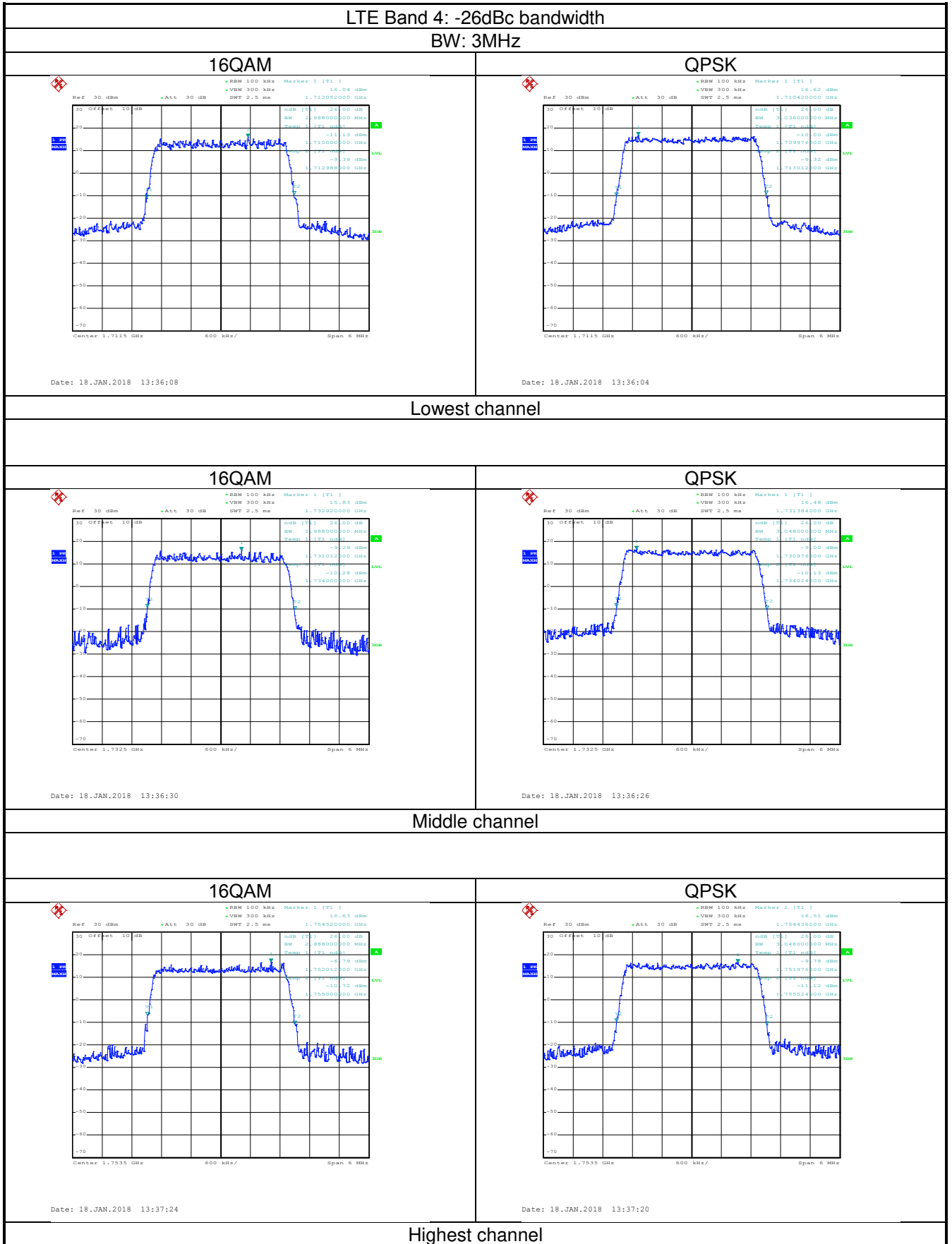
QPSK



Date: 18.JAN.2018 13:46:07

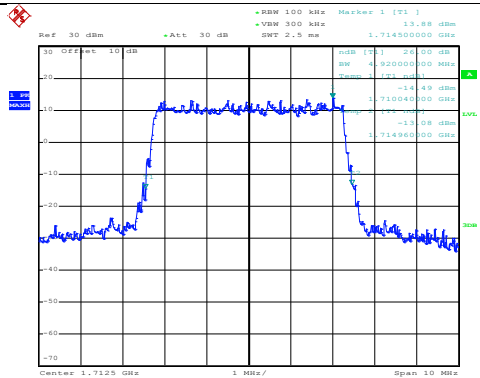
Highest channel





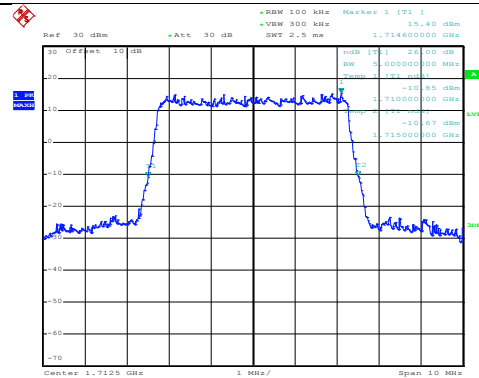
LTE Band 4: -26dBc bandwidth
BW: 5MHz

16QAM



Date: 18.JAN.2018 13:38:02

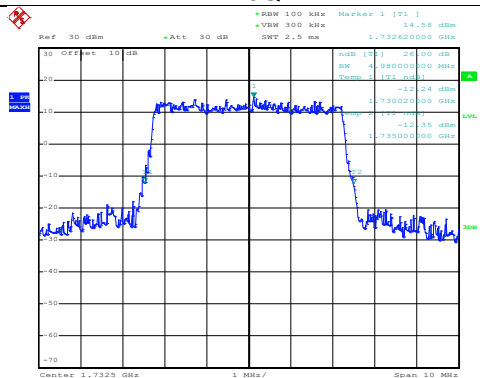
QPSK



Date: 18.JAN.2018 13:37:57

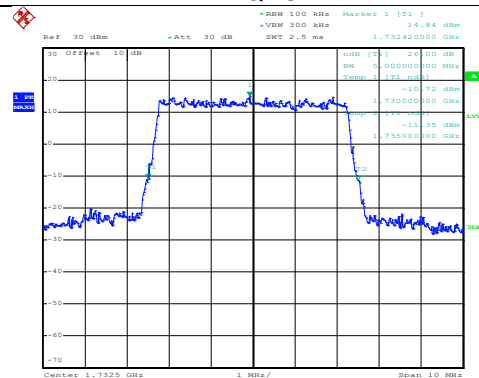
Lowest channel

16QAM



Date: 18.JAN.2018 13:38:54

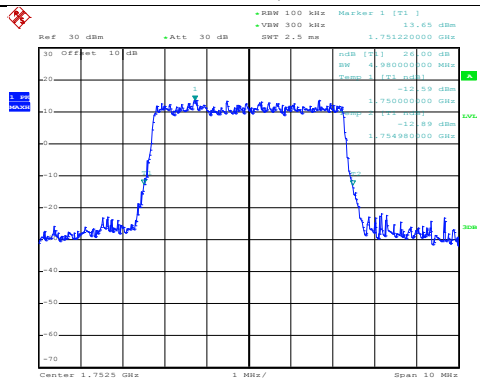
QPSK



Date: 18.JAN.2018 13:38:48

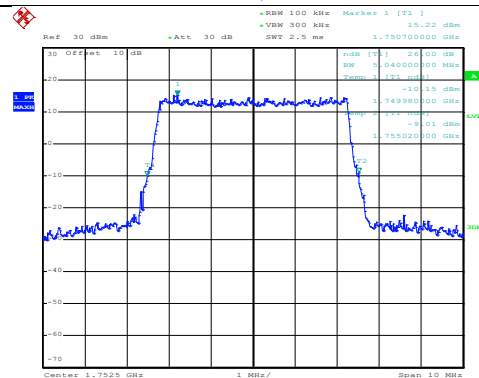
Middle channel

16QAM



Date: 18.JAN.2018 13:39:19

QPSK

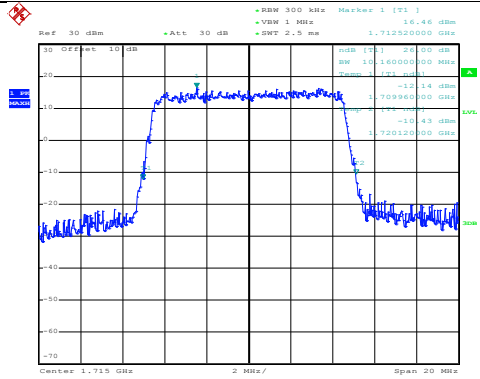


Date: 18.JAN.2018 13:39:14

Highest channel

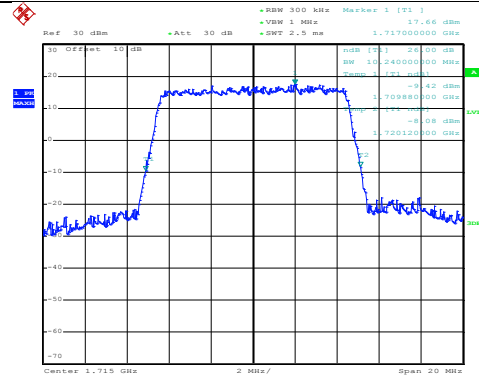
LTE Band 4: -26dBc bandwidth
BW: 10MHz

16QAM



Date: 18.JAN.2018 13:41:01

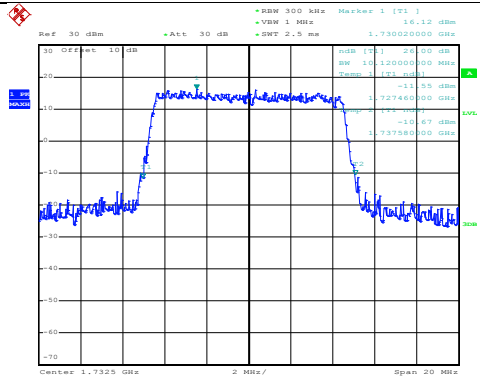
QPSK



Date: 18.JAN.2018 13:40:57

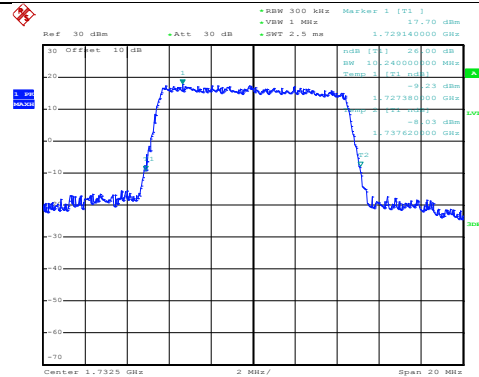
Lowest channel

16QAM



Date: 18.JAN.2018 13:41:21

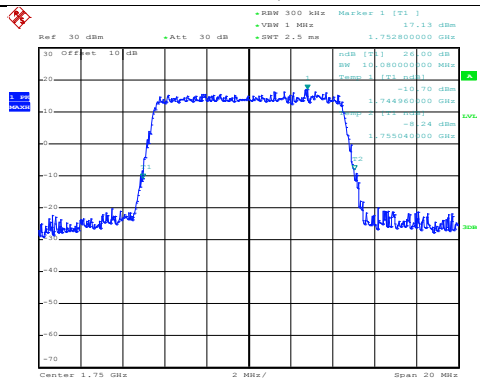
QPSK



Date: 18.JAN.2018 13:41:16

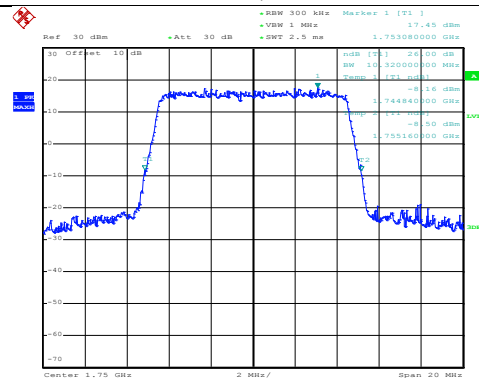
Middle channel

16QAM



Date: 18.JAN.2018 13:42:13

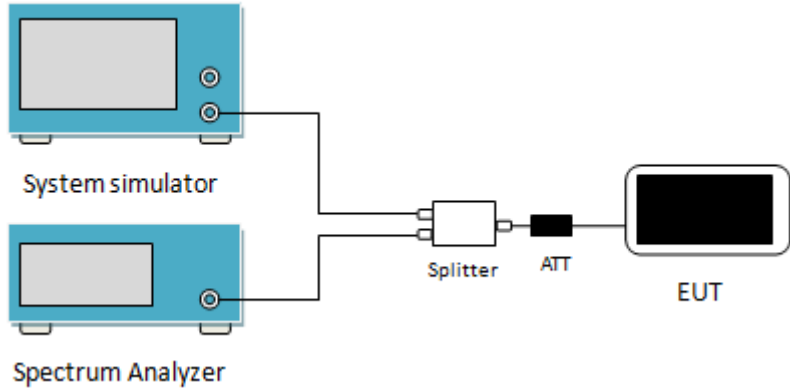
QPSK



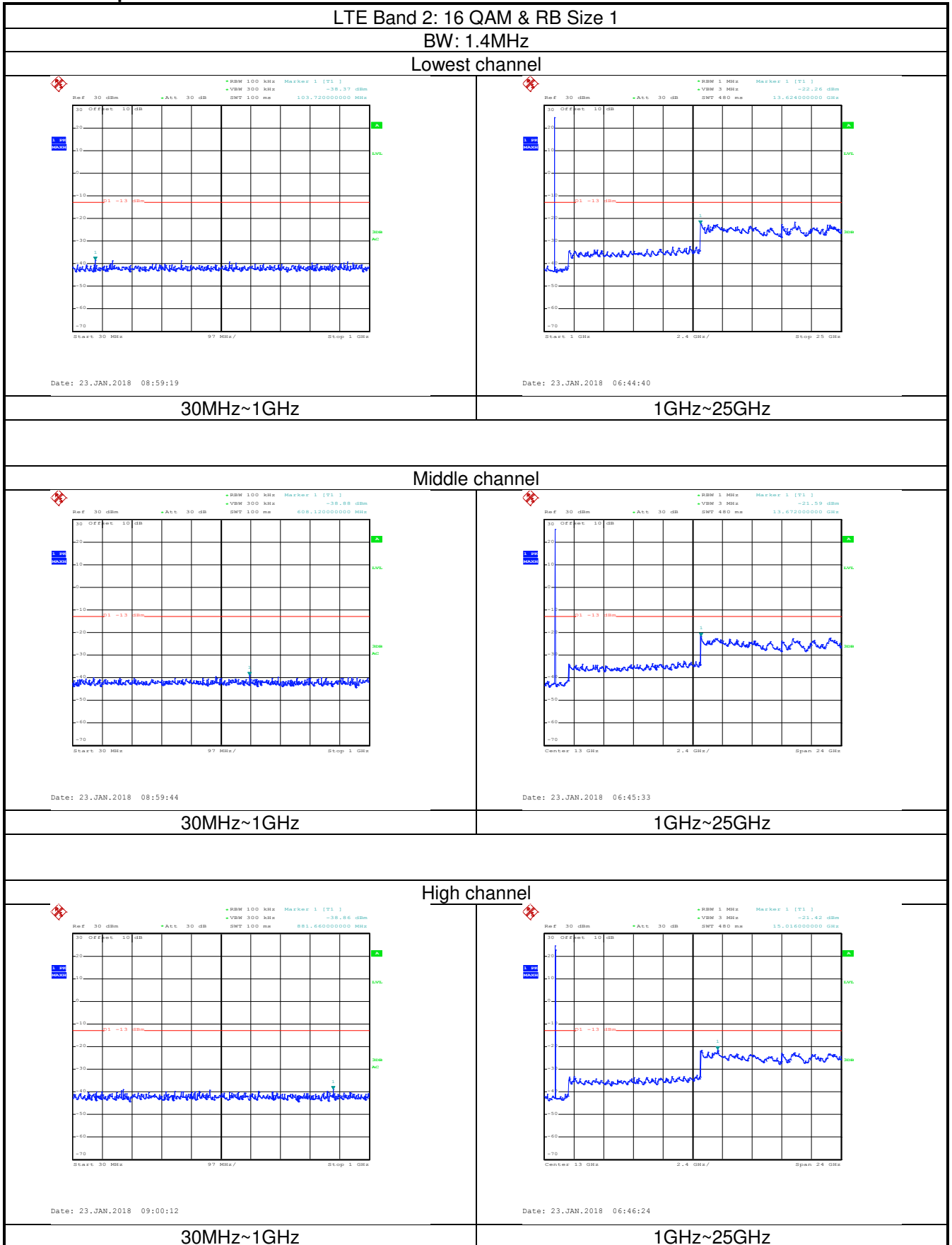
Date: 18.JAN.2018 13:42:07

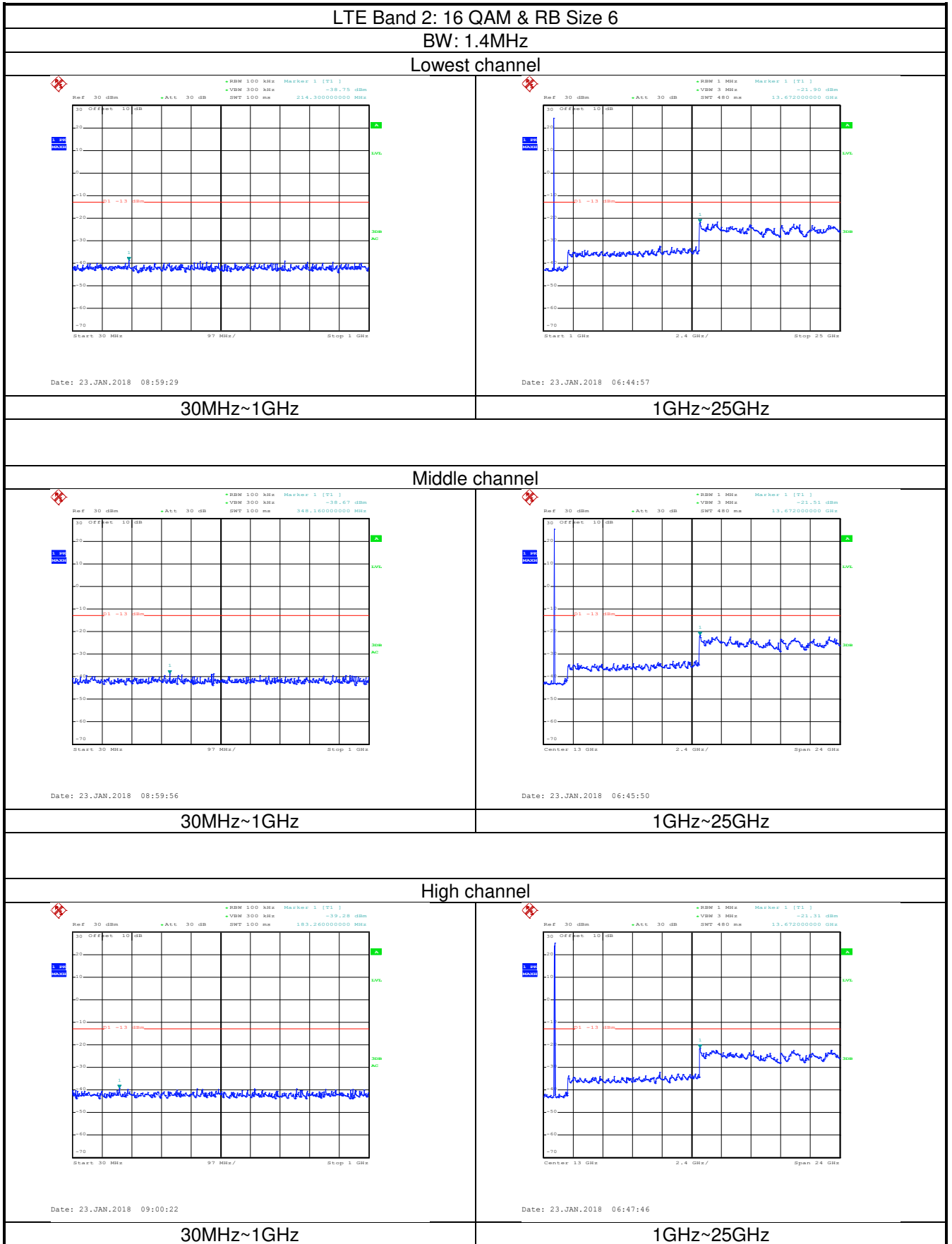
Highest channel

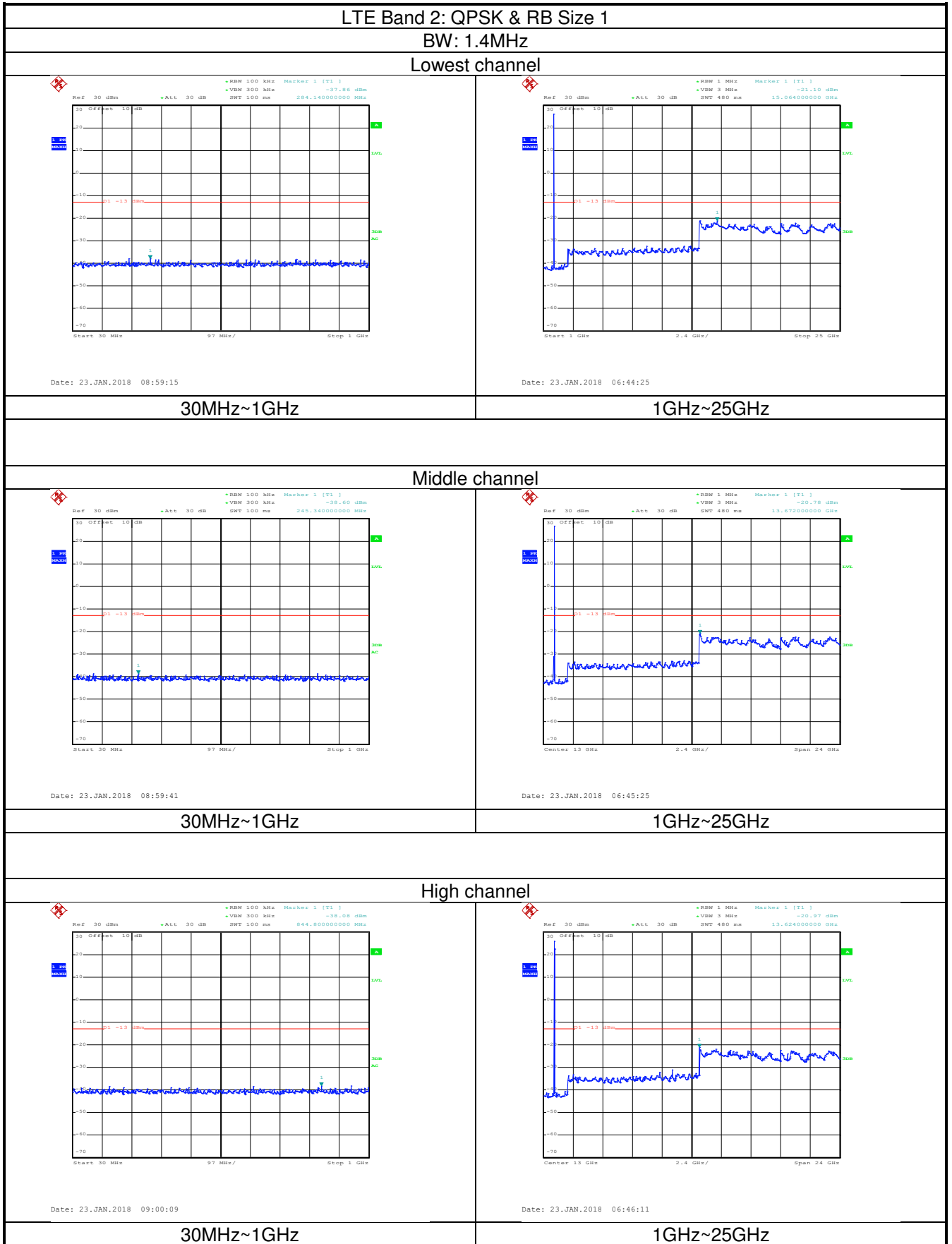
6.4 Out of band emission at antenna terminals

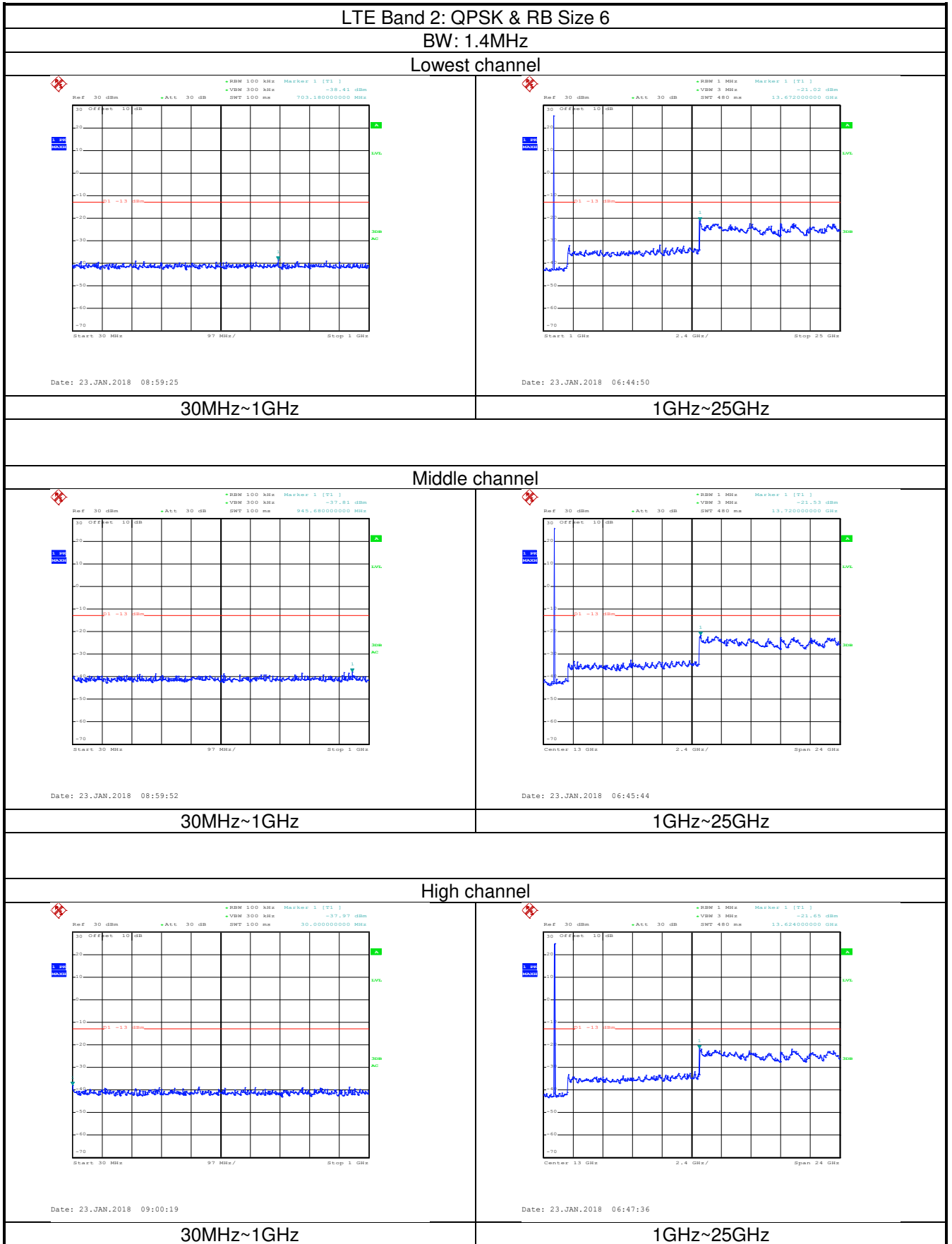
Test Requirement:	Part 24.238 (a), part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2 & 4: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm).
Test Setup:	 <p>The diagram illustrates the test setup. On the left, there are two blue rectangular devices: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a screen and control knobs. A single line from the System simulator and another from the Spectrum Analyzer converge into a single line that enters a white rectangular 'Splitter'. From the other side of the Splitter, a line goes to a black rectangular 'ATT' (attenuator). Finally, a line from the ATT connects to a white rectangular 'EUT' (Equipment Under Test) with a black screen.</p>
Test Procedure:	<ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

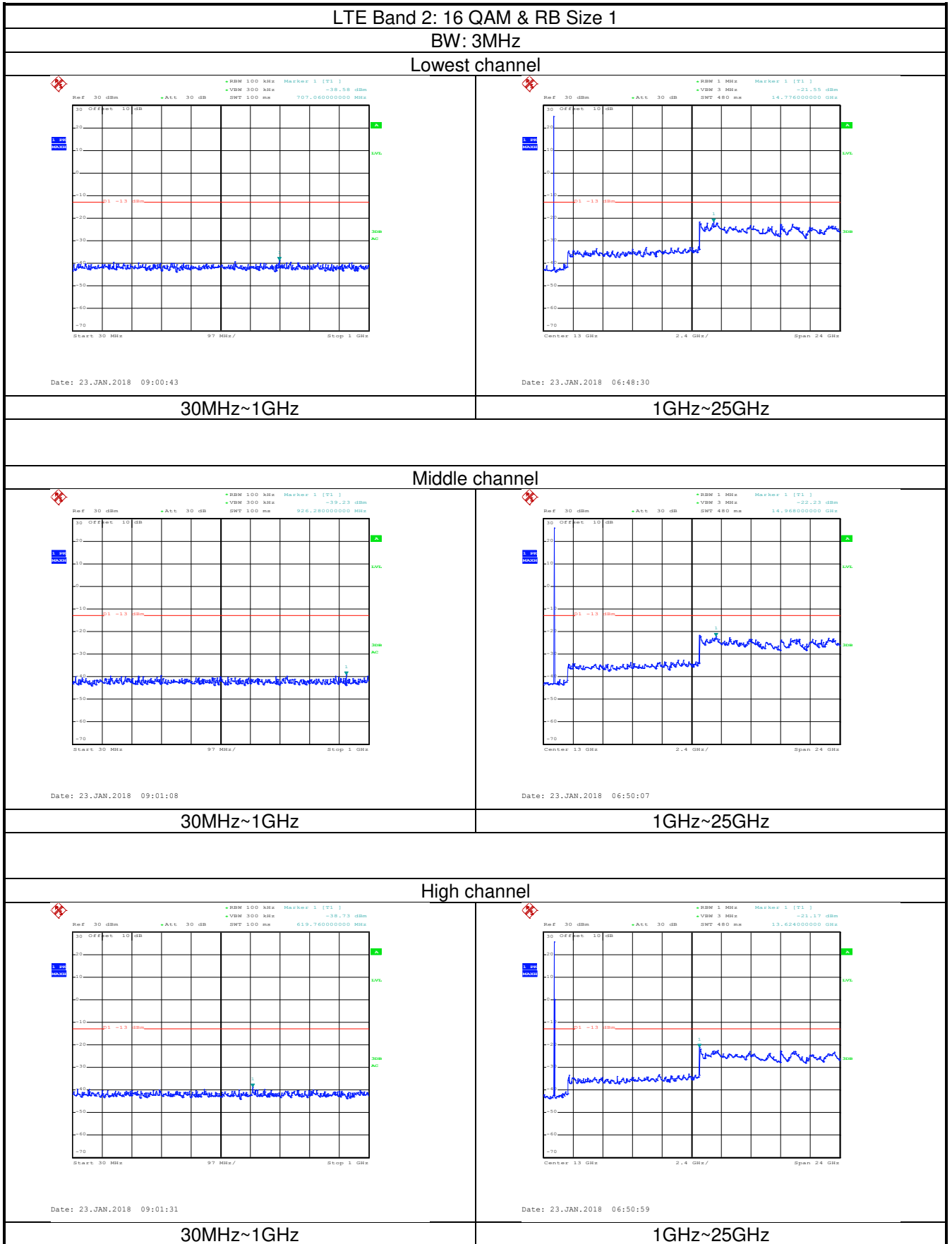
Test plots as follows (Conducted spurious emission) (worst case):
 LTE Band 2 part:







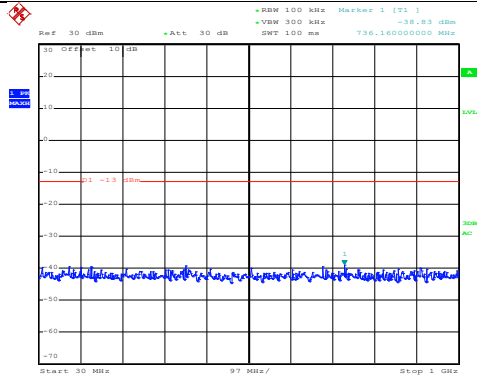




LTE Band 2: 16 QAM & RB Size 15

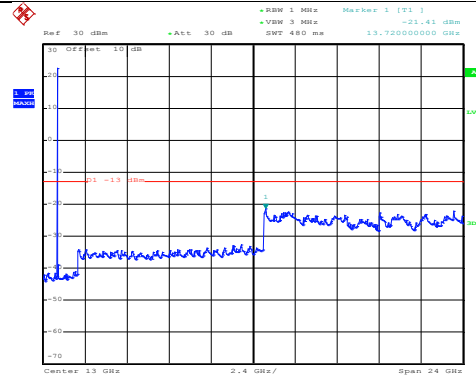
BW: 3MHz

Lowest channel



Date: 23.JAN.2018 09:00:55

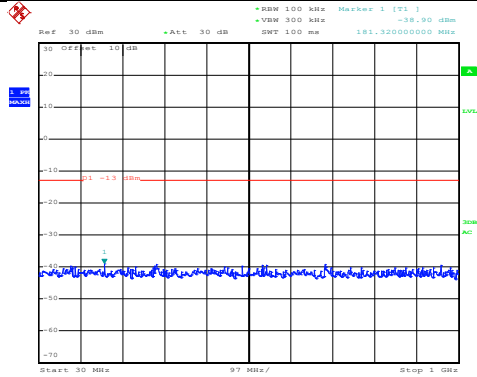
30MHz~1GHz



Date: 23.JAN.2018 06:48:50

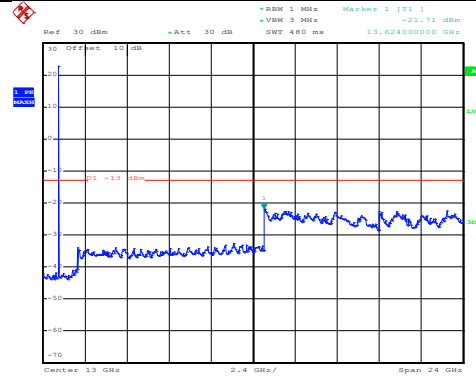
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:01:18

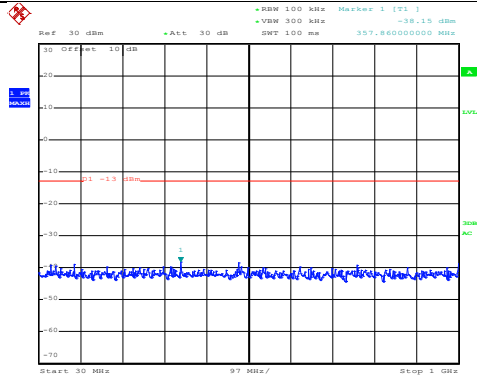
30MHz~1GHz



Date: 23.JAN.2018 06:50:29

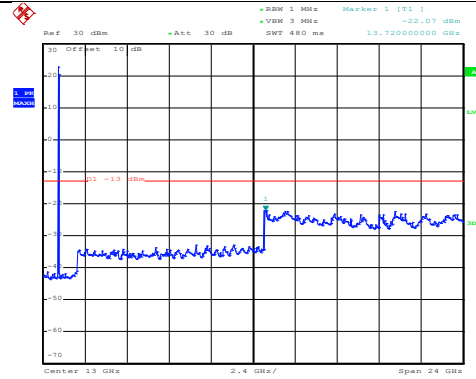
1GHz~25GHz

High channel



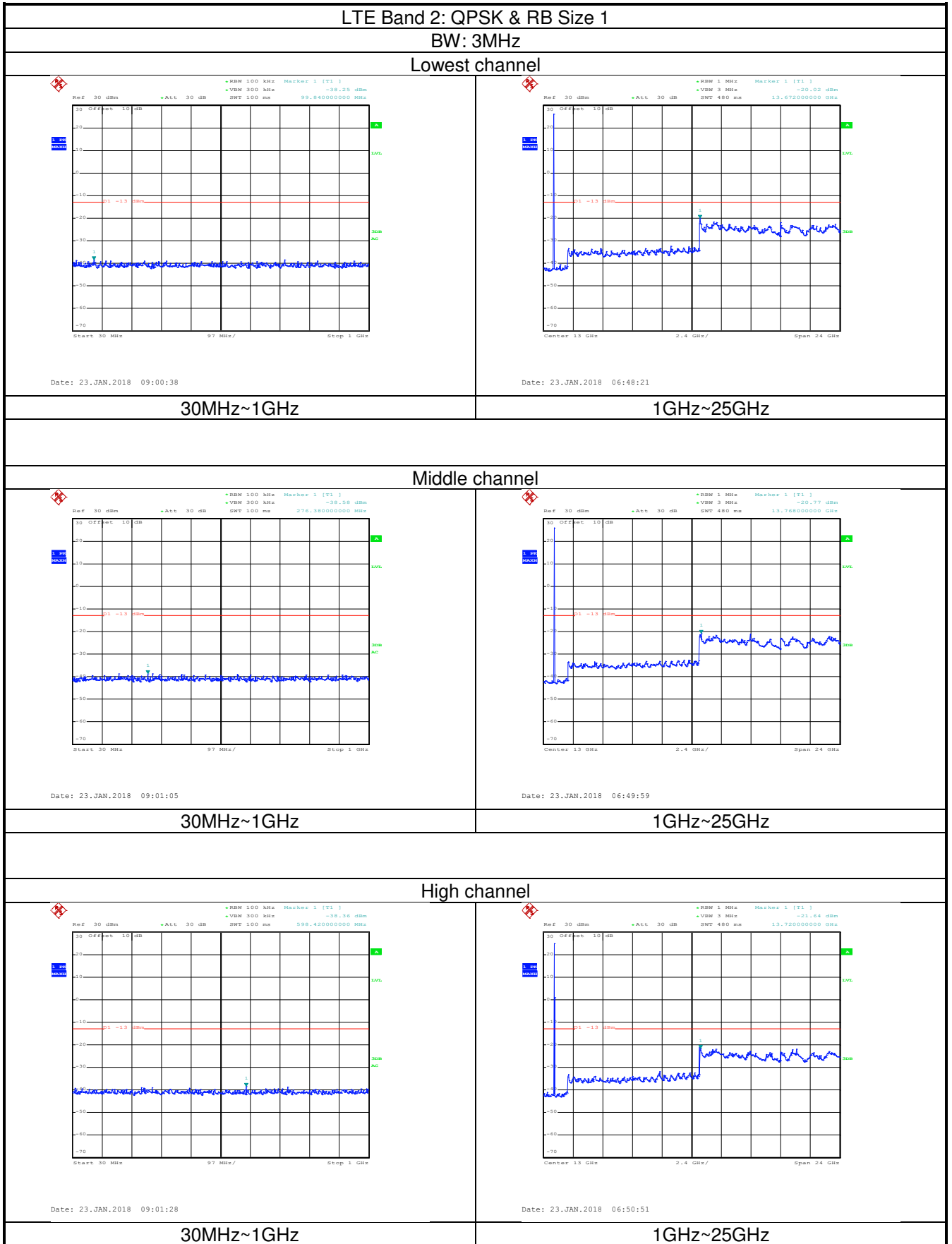
Date: 23.JAN.2018 09:01:42

30MHz~1GHz



Date: 23.JAN.2018 06:51:30

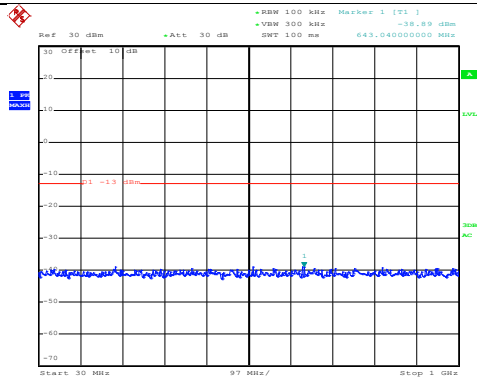
1GHz~25GHz



LTE Band 2: QPSK & RB Size 15

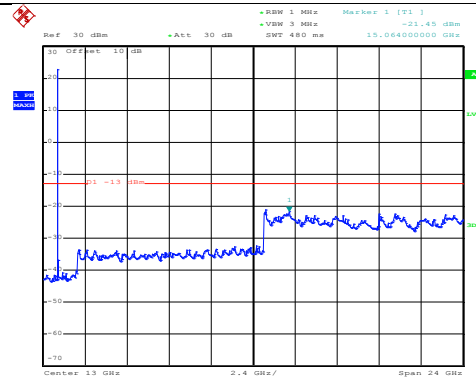
BW: 3MHz

Lowest channel



Date: 23.JAN.2018 09:00:52

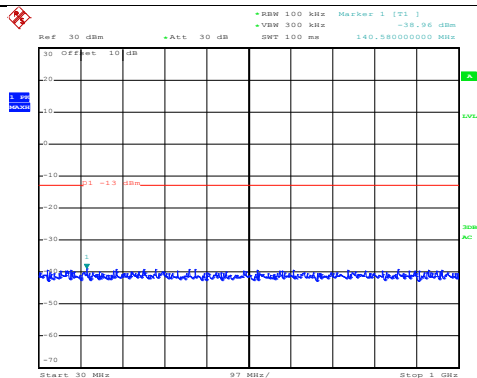
30MHz~1GHz



Date: 23.JAN.2018 06:48:43

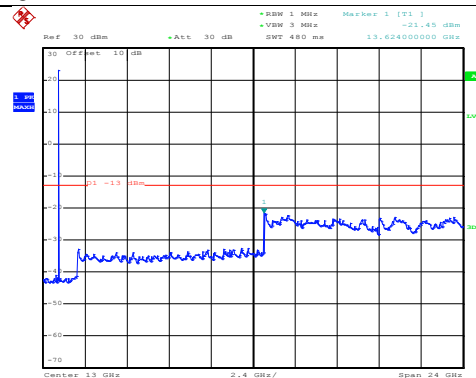
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:01:15

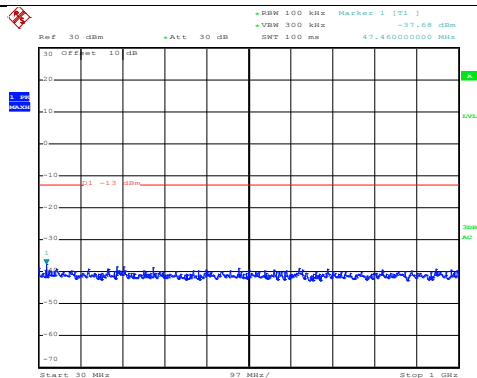
30MHz~1GHz



Date: 23.JAN.2018 06:50:21

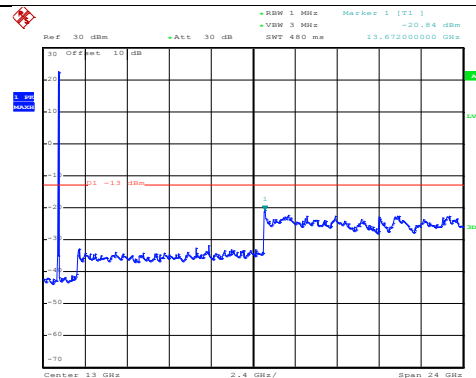
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:01:38

30MHz~1GHz



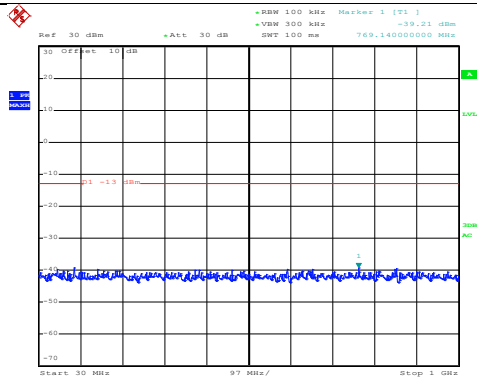
Date: 23.JAN.2018 06:51:22

1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 1

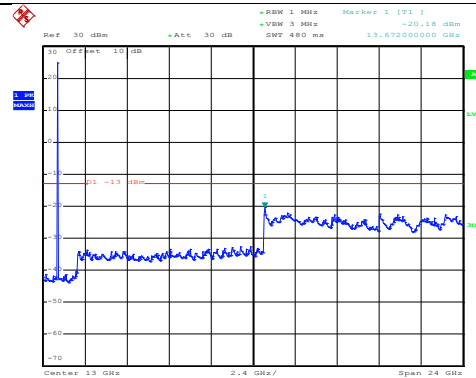
BW: 5MHz

Lowest channel



Date: 23.JAN.2018 09:02:02

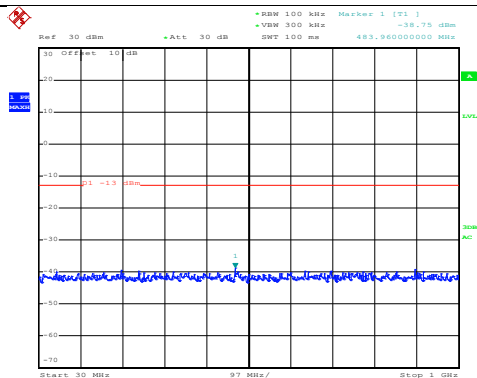
30MHz~1GHz



Date: 23.JAN.2018 06:53:21

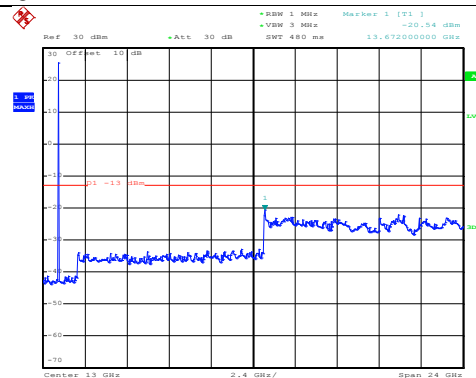
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:02:30

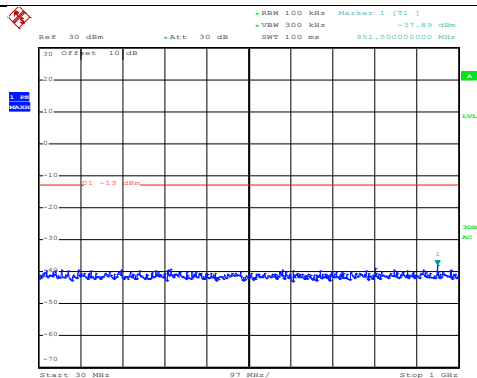
30MHz~1GHz



Date: 23.JAN.2018 06:54:17

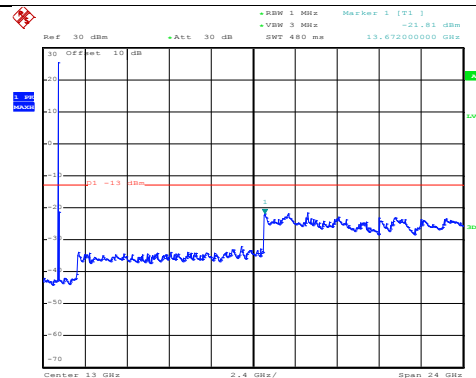
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:02:59

30MHz~1GHz



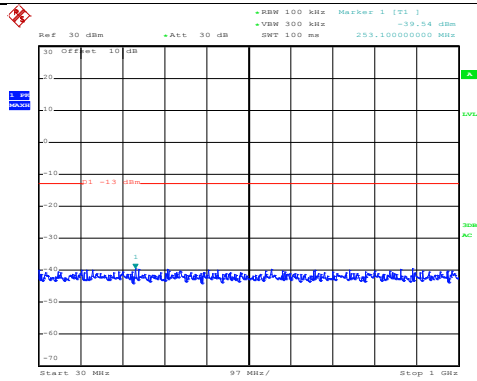
Date: 23.JAN.2018 06:55:11

1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 25

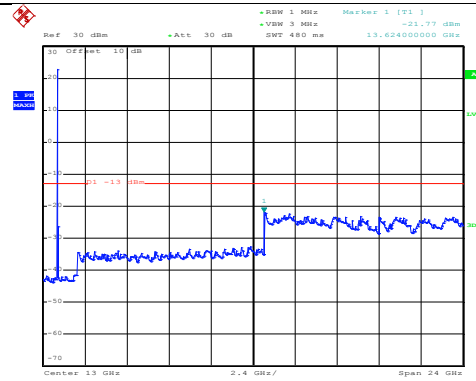
BW: 5MHz

Lowest channel



Date: 23.JAN.2018 09:02:12

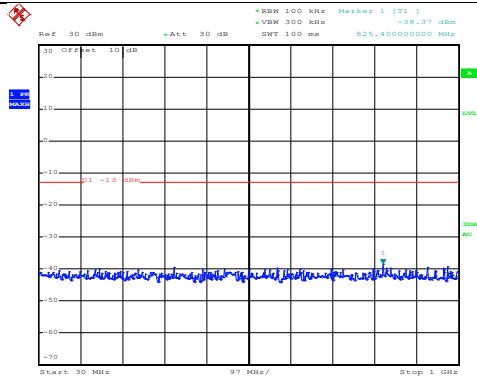
30MHz~1GHz



Date: 23.JAN.2018 06:53:48

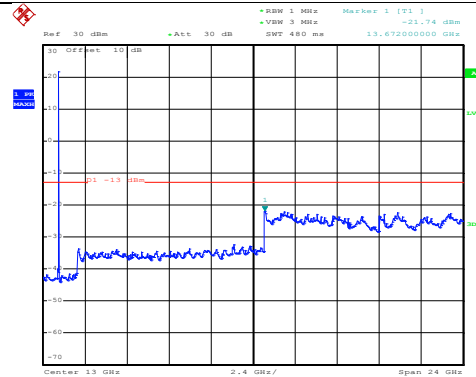
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:02:42

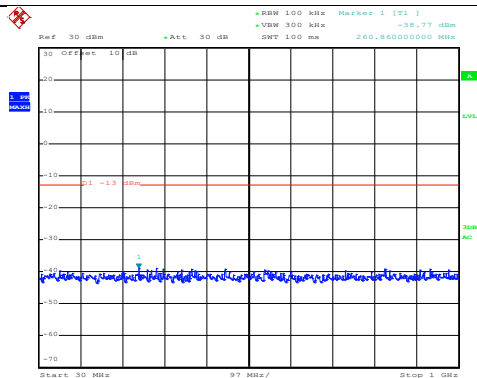
30MHz~1GHz



Date: 23.JAN.2018 06:54:35

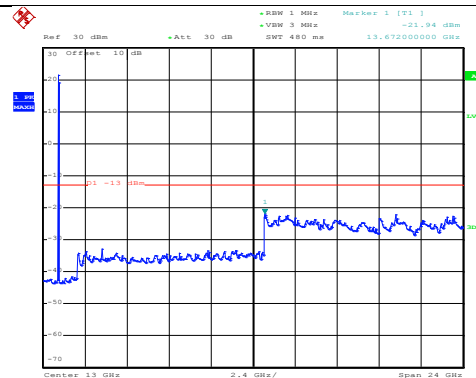
1GHz~25GHz

High channel



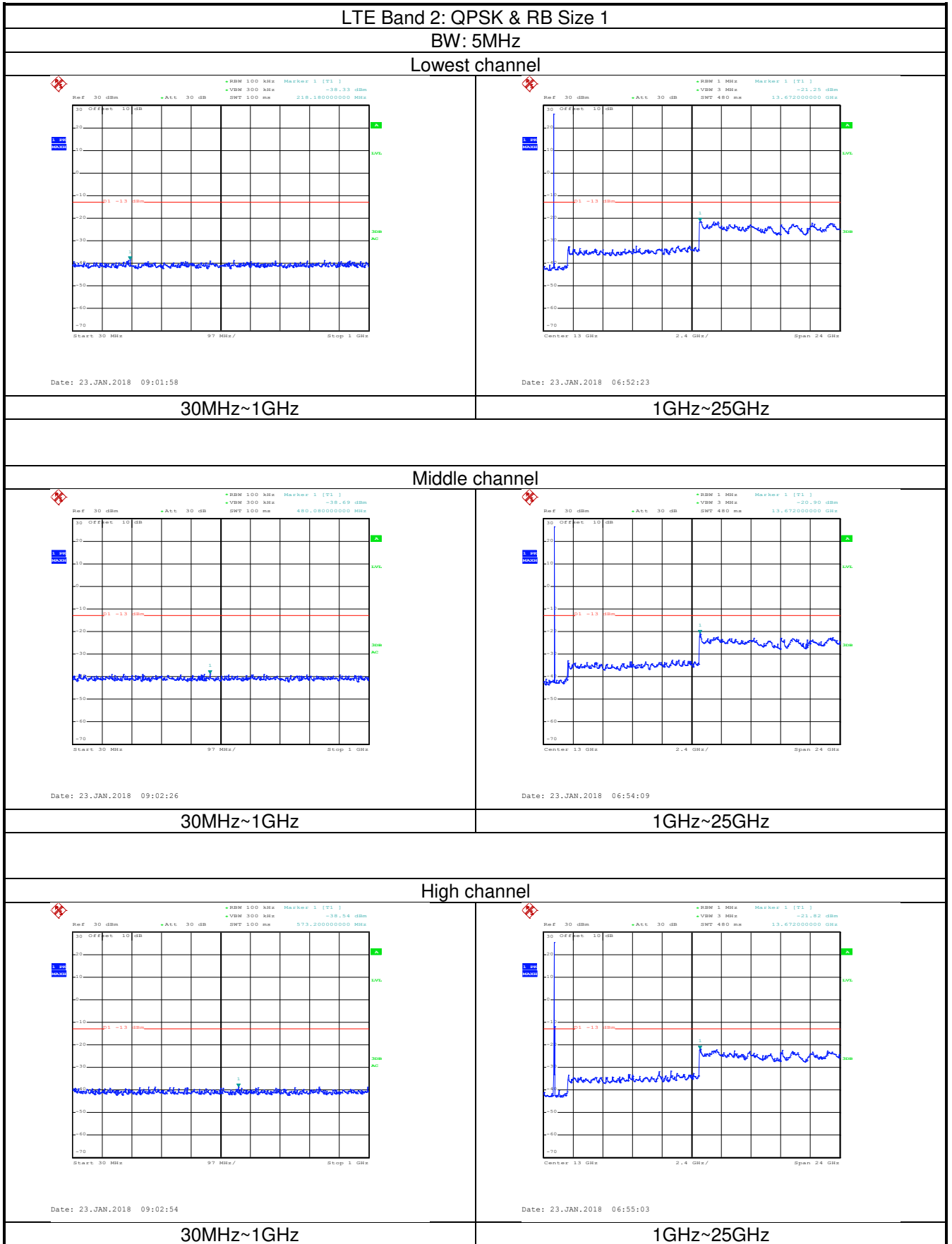
Date: 23.JAN.2018 09:03:12

30MHz~1GHz



Date: 23.JAN.2018 06:55:28

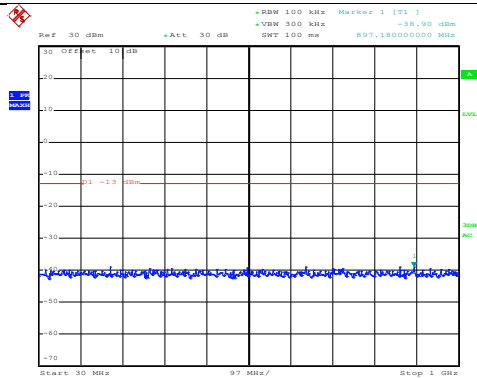
1GHz~25GHz



LTE Band 2: QPSK & RB Size 25

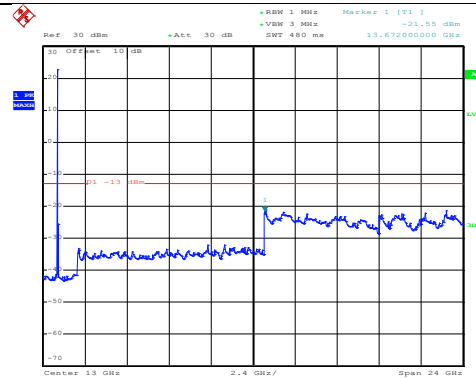
BW: 5MHz

Lowest channel



Date: 23.JAN.2018 09:02:09

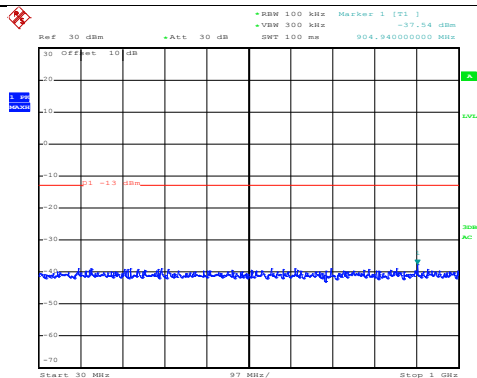
30MHz~1GHz



Date: 23.JAN.2018 06:53:40

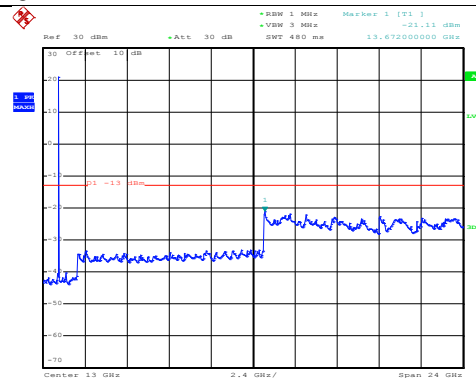
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:02:39

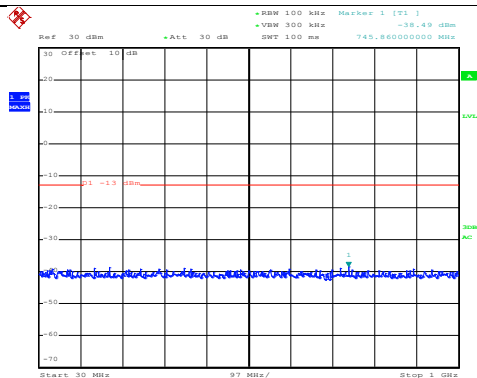
30MHz~1GHz



Date: 23.JAN.2018 06:54:27

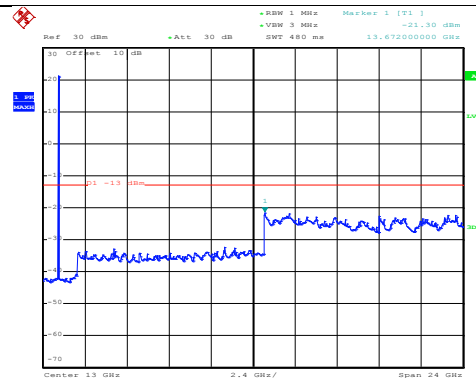
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:03:08

30MHz~1GHz

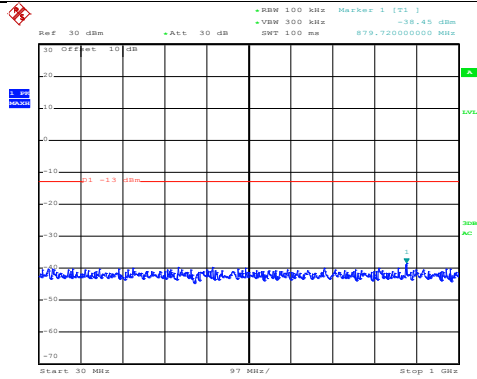


Date: 23.JAN.2018 06:55:22

1GHz~25GHz

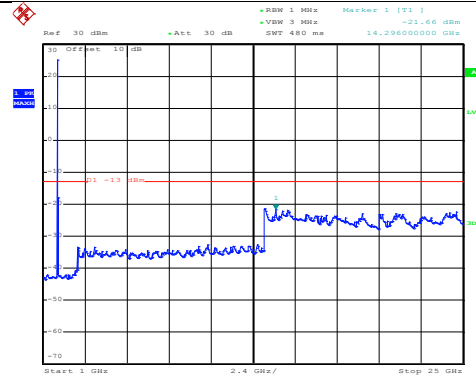
LTE Band 2: 16 QAM & RB Size 1
 BW: 10MHz

Lowest channel



Date: 23.JAN.2018 09:03:36

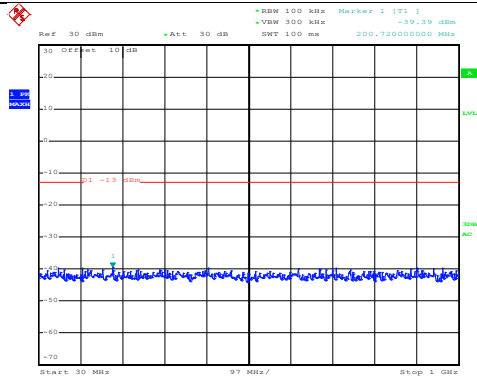
30MHz~1GHz



Date: 23.JAN.2018 06:56:58

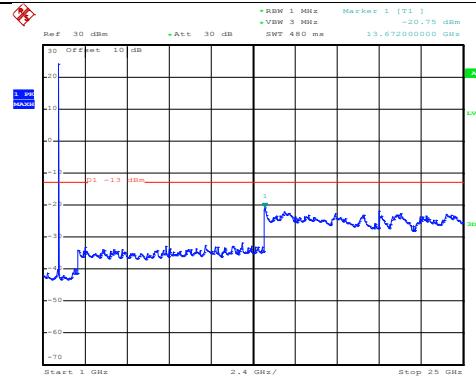
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:04:00

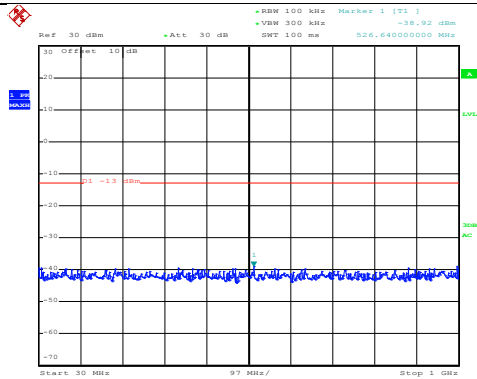
30MHz~1GHz



Date: 23.JAN.2018 07:00:17

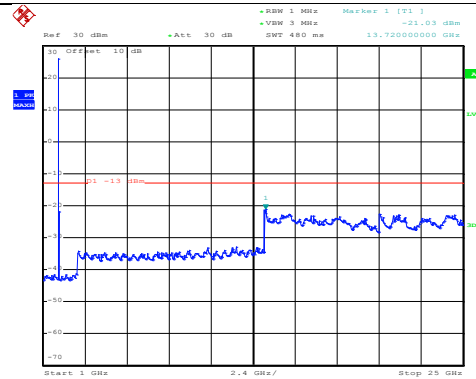
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:04:25

30MHz~1GHz



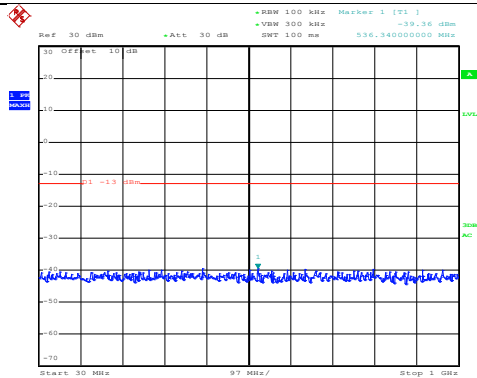
Date: 23.JAN.2018 07:01:28

1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 50

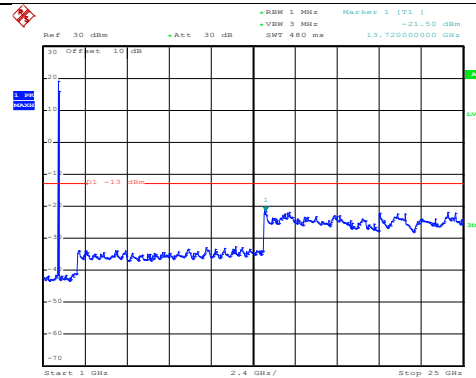
BW: 10MHz

Lowest channel



Date: 23.JAN.2018 09:03:46

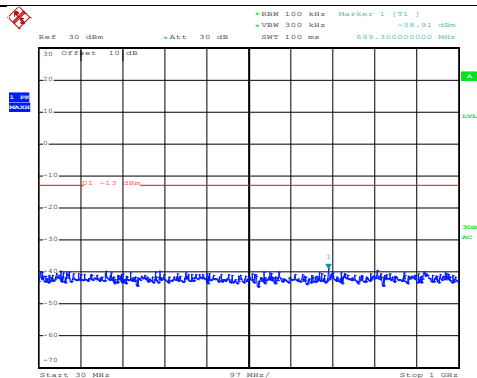
30MHz~1GHz



Date: 23.JAN.2018 06:59:37

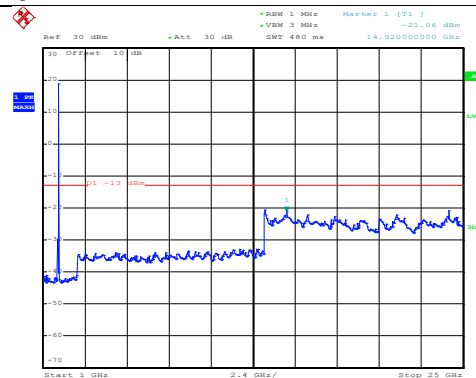
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:04:11

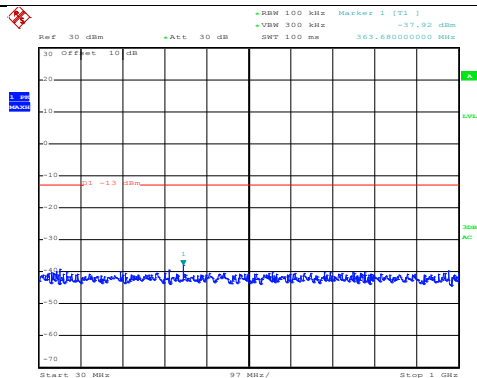
30MHz~1GHz



Date: 23.JAN.2018 07:00:56

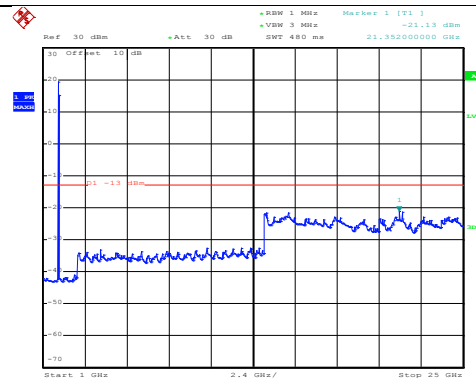
1GHz~25GHz

High channel



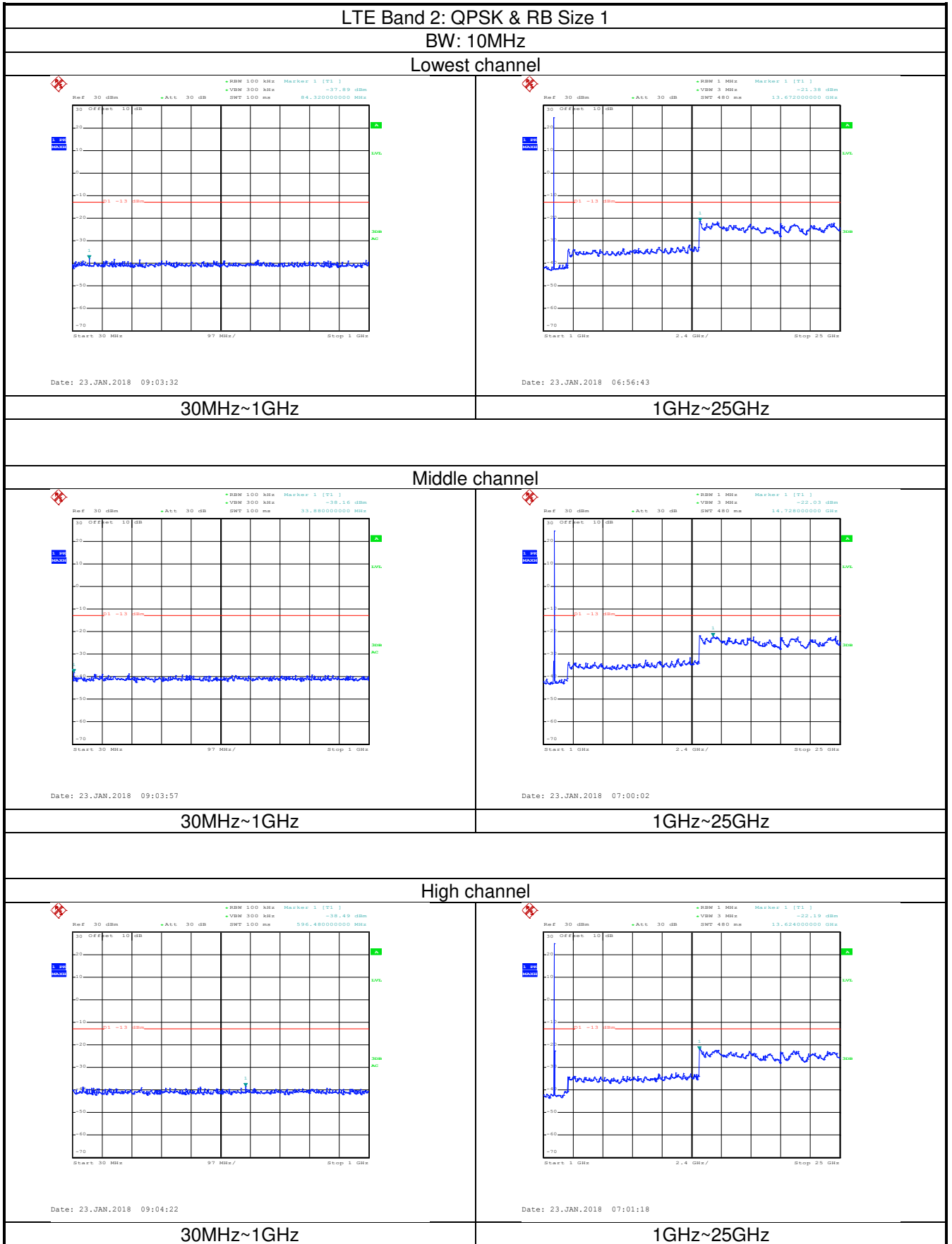
Date: 23.JAN.2018 09:04:38

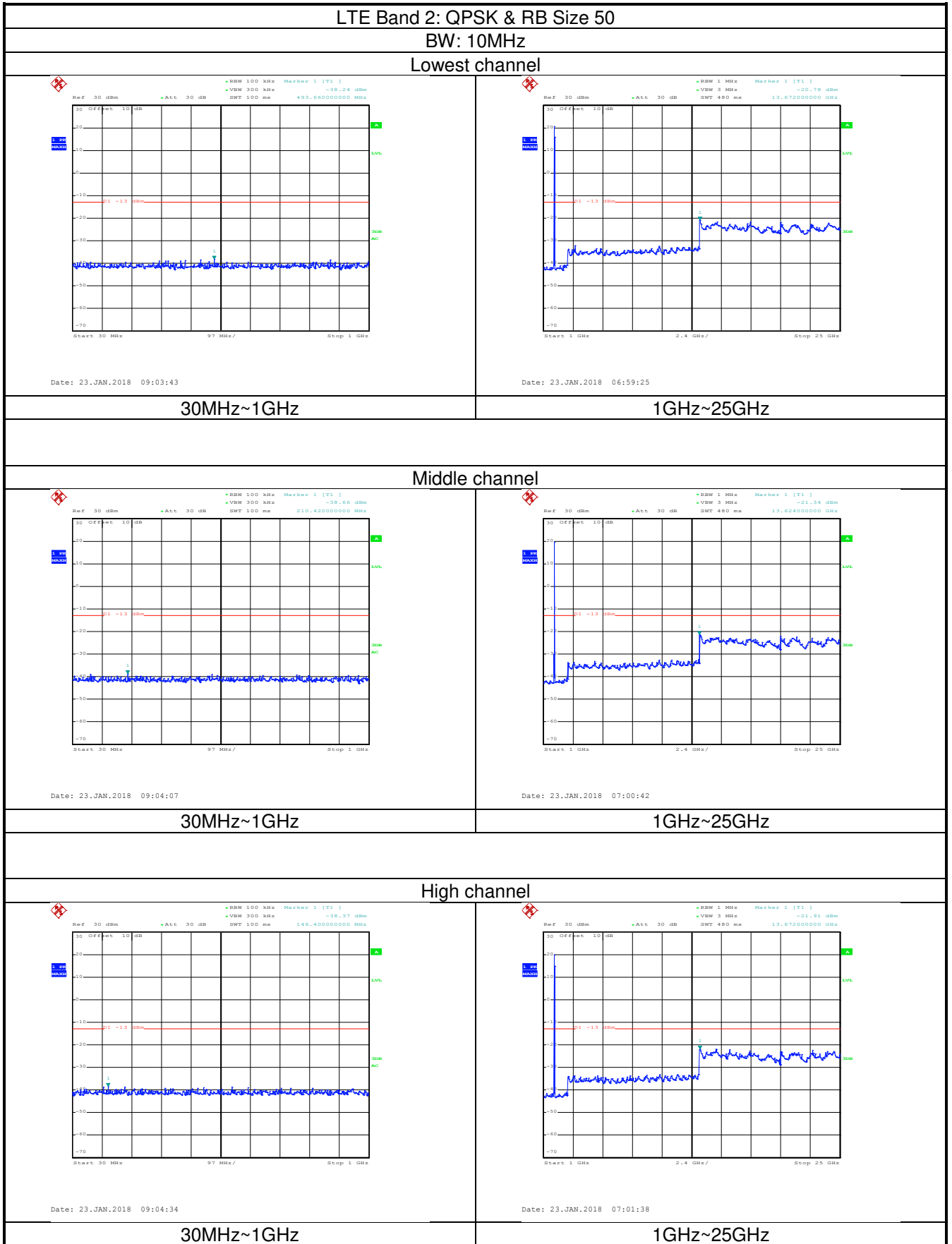
30MHz~1GHz



Date: 23.JAN.2018 07:01:49

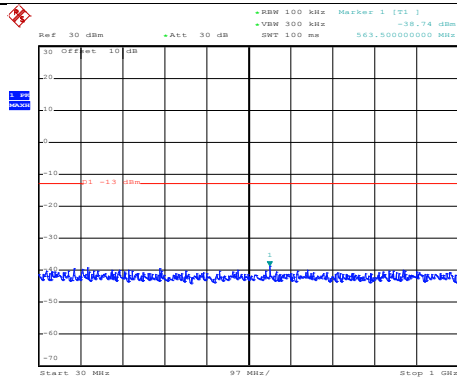
1GHz~25GHz





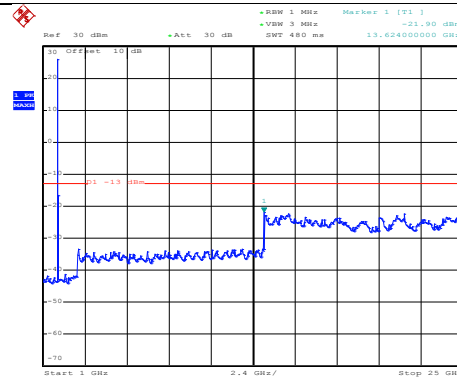
LTE Band 2: 16 QAM & RB Size 1
 BW: 15MHz

Lowest channel



Date: 23.JAN.2018 09:05:01

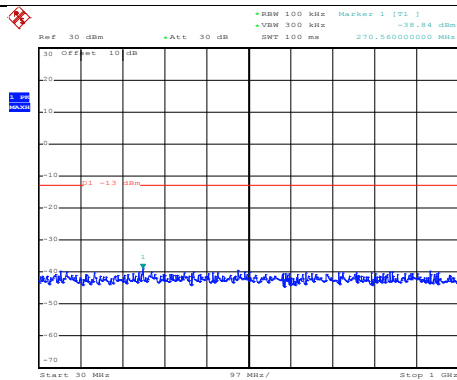
30MHz~1GHz



Date: 23.JAN.2018 07:02:34

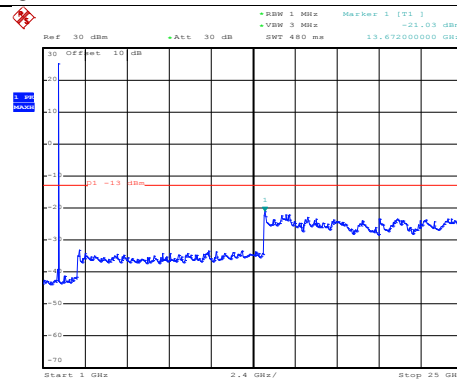
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:05:26

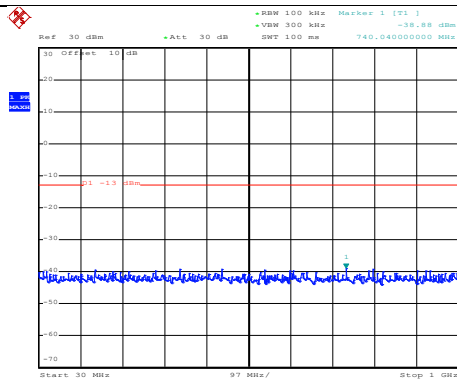
30MHz~1GHz



Date: 23.JAN.2018 07:03:22

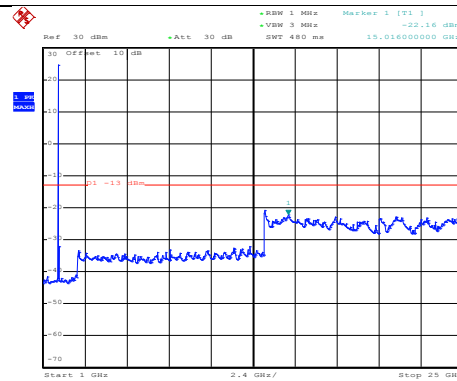
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:05:58

30MHz~1GHz



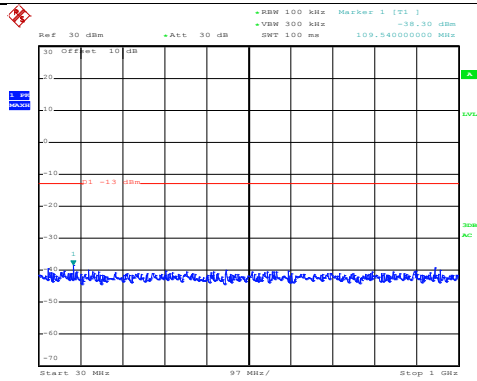
Date: 23.JAN.2018 07:04:09

1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 75

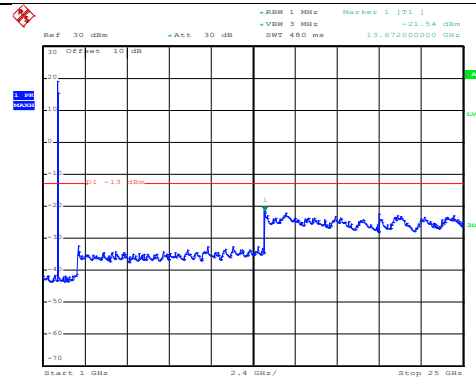
BW: 15MHz

Lowest channel



Date: 23.JAN.2018 09:05:11

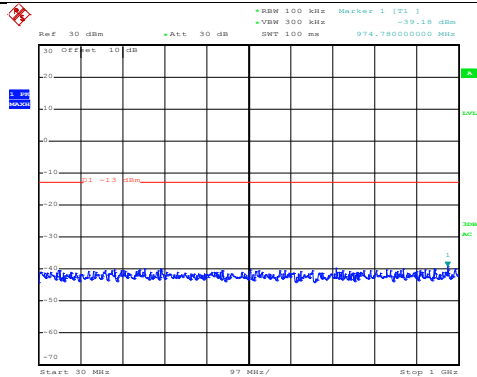
30MHz~1GHz



Date: 23.JAN.2018 07:02:53

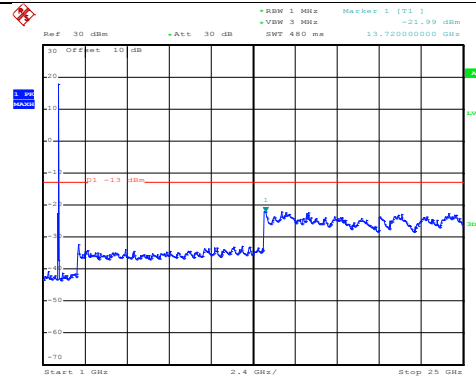
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:05:45

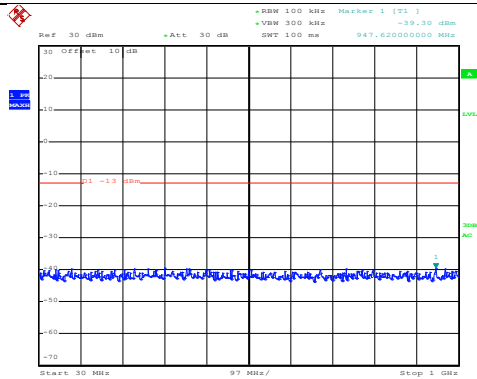
30MHz~1GHz



Date: 23.JAN.2018 07:03:42

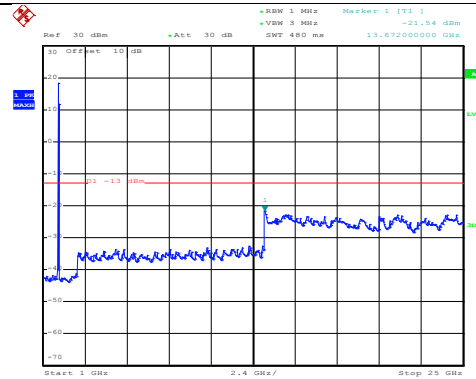
1GHz~25GHz

High channel



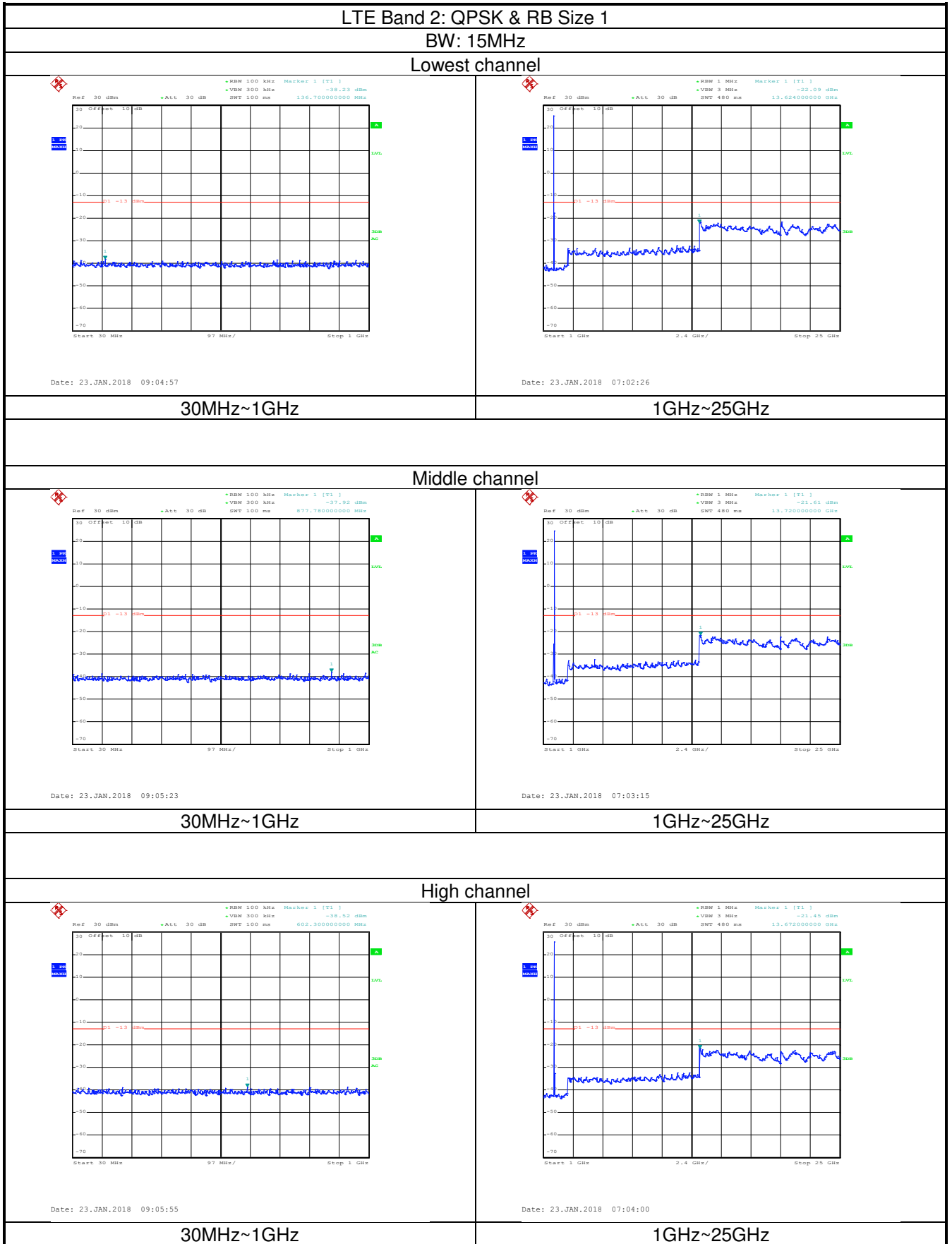
Date: 23.JAN.2018 09:06:14

30MHz~1GHz



Date: 23.JAN.2018 07:04:29

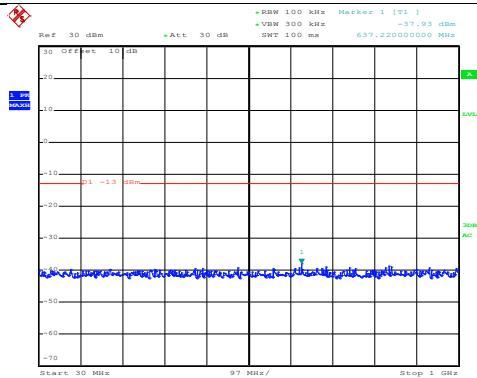
1GHz~25GHz



LTE Band 2: QPSK & RB Size 75

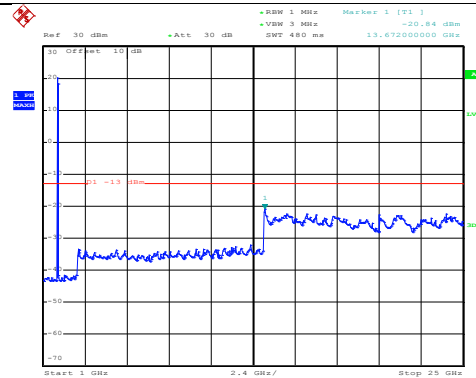
BW: 15MHz

Lowest channel



Date: 23.JAN.2018 09:05:08

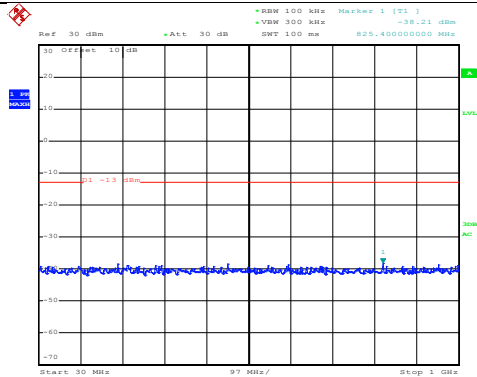
30MHz~1GHz



Date: 23.JAN.2018 07:02:45

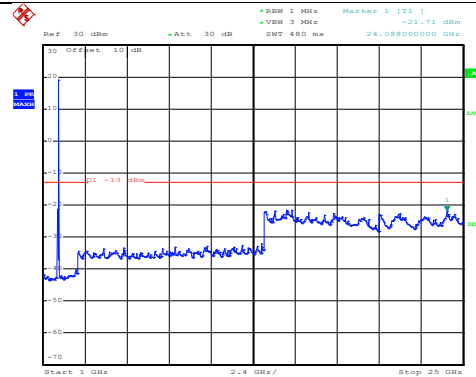
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:05:42

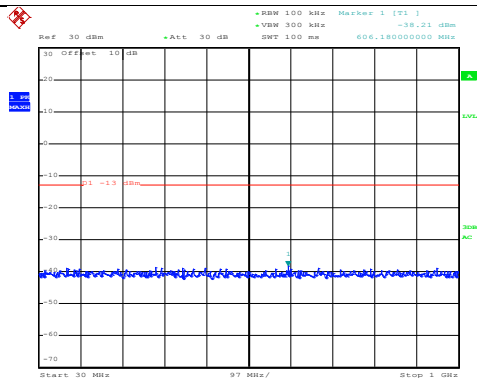
30MHz~1GHz



Date: 23.JAN.2018 07:03:33

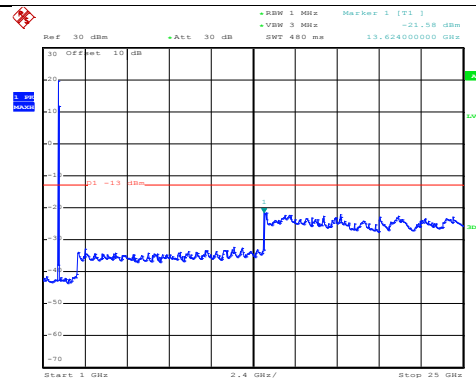
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:06:10

30MHz~1GHz



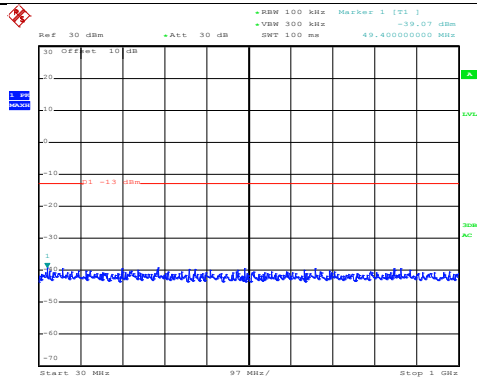
Date: 23.JAN.2018 07:04:22

1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 1

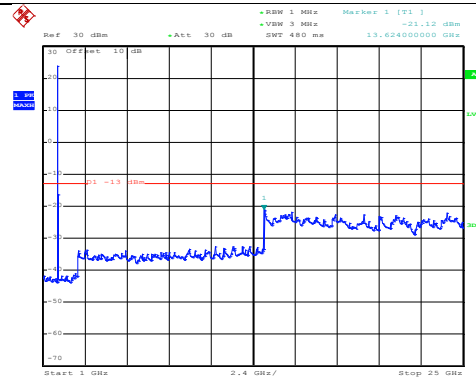
BW: 20MHz

Lowest channel



Date: 23.JAN.2018 09:06:31

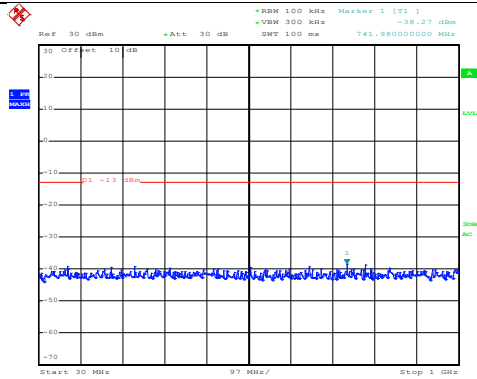
30MHz~1GHz



Date: 23.JAN.2018 07:05:12

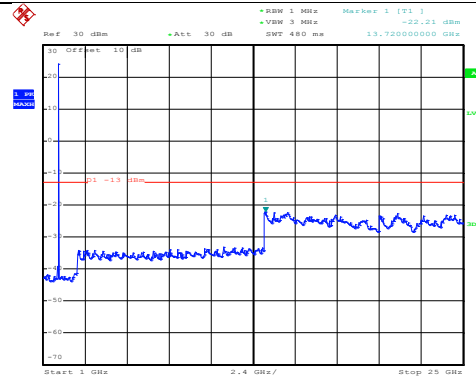
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:07:14

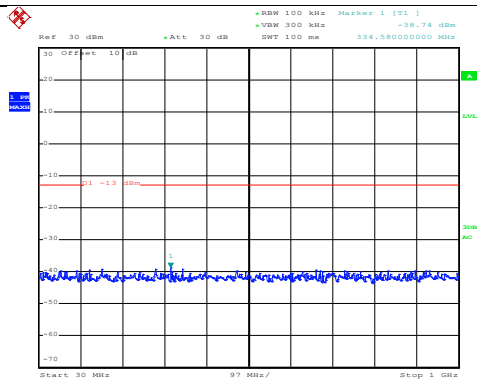
30MHz~1GHz



Date: 23.JAN.2018 07:05:59

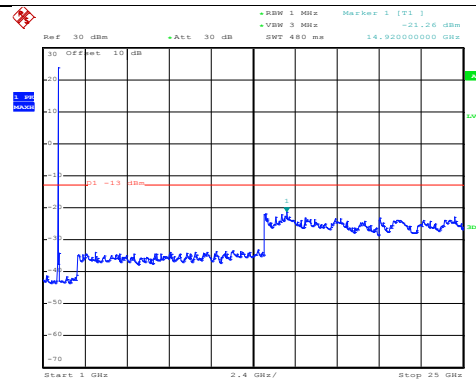
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:07:42

30MHz~1GHz



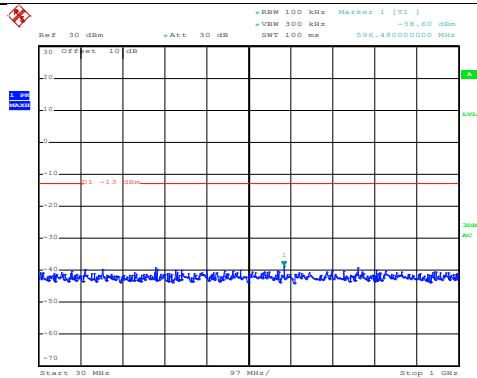
Date: 23.JAN.2018 07:06:46

1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 100

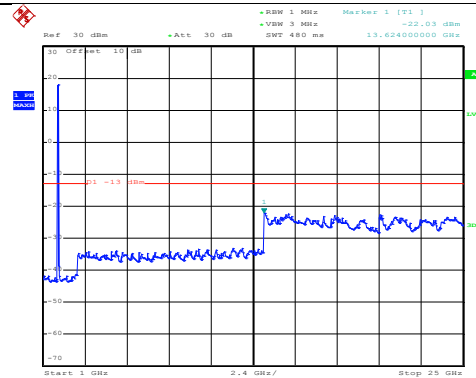
BW: 20MHz

Lowest channel



Date: 23.JAN.2018 09:06:59

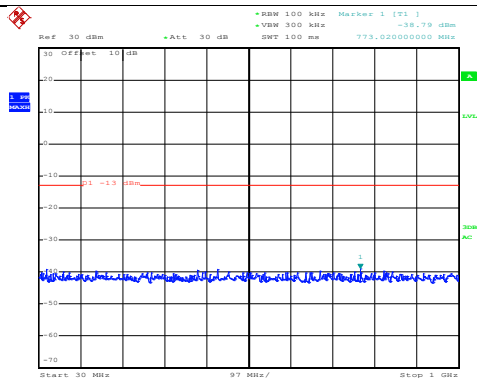
30MHz~1GHz



Date: 23.JAN.2018 07:05:29

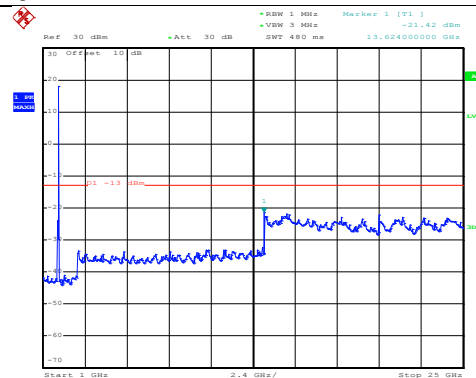
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:07:26

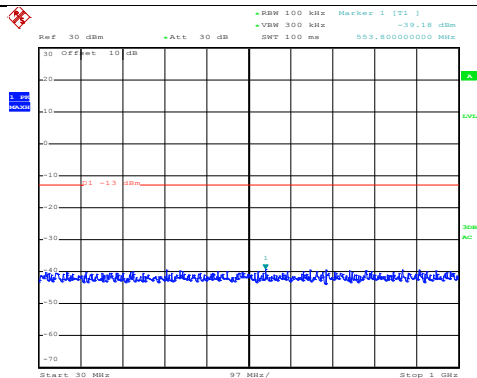
30MHz~1GHz



Date: 23.JAN.2018 07:06:18

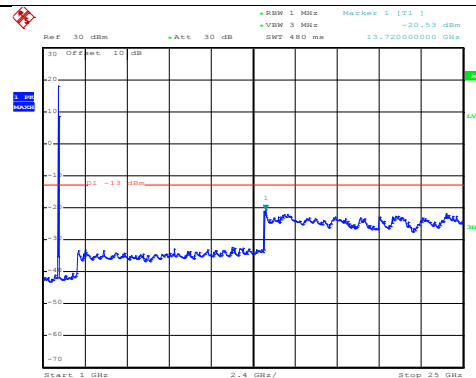
1GHz~25GHz

High channel



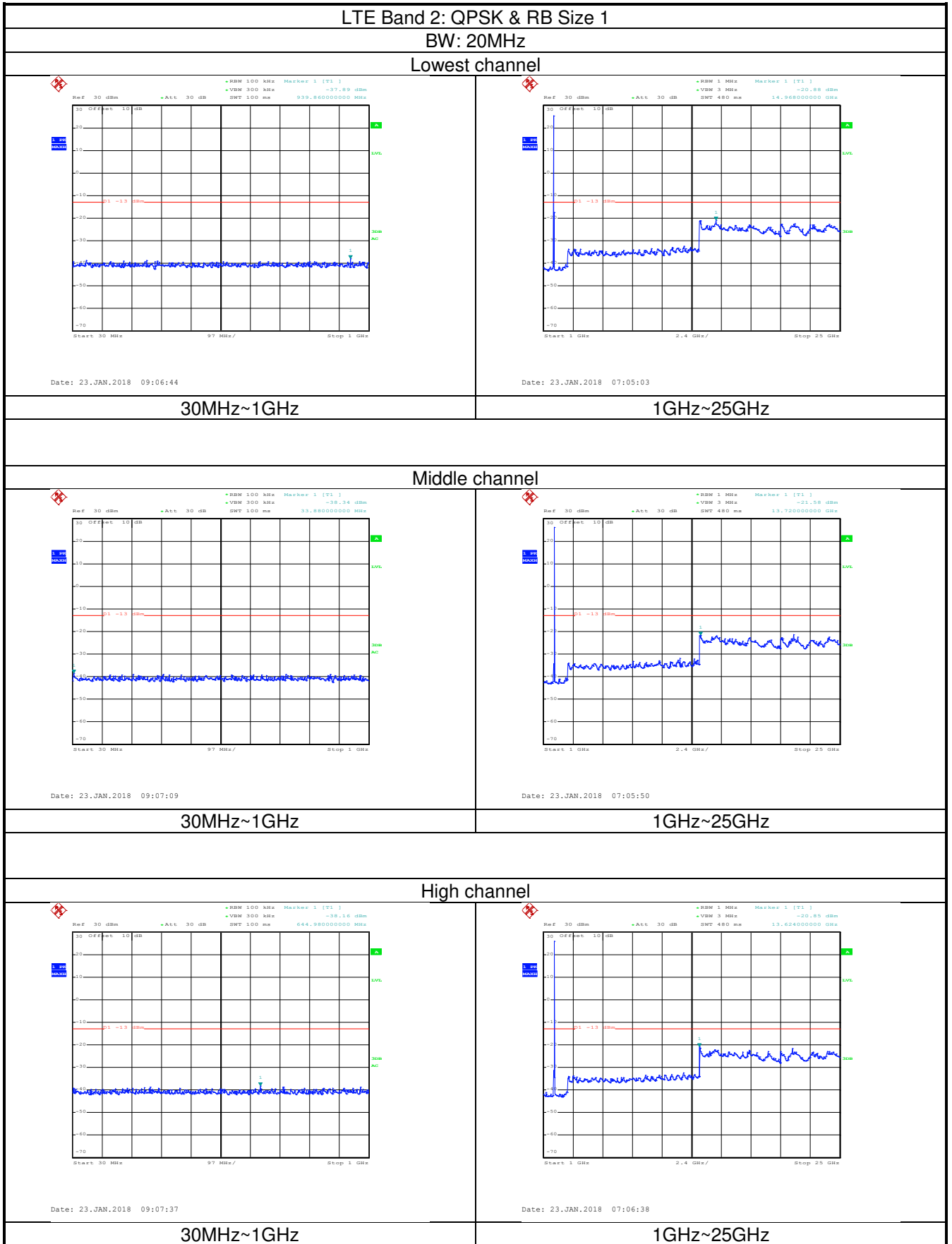
Date: 23.JAN.2018 09:07:55

30MHz~1GHz



Date: 23.JAN.2018 07:07:25

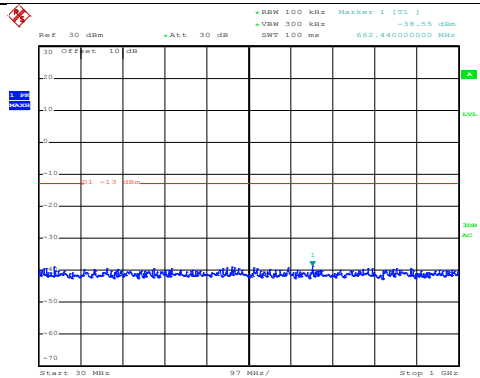
1GHz~25GHz



LTE Band 2: QPSK & RB Size 100

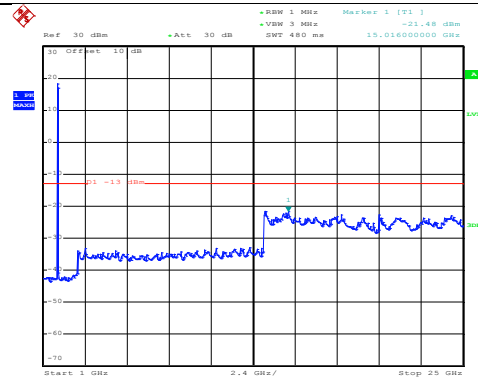
BW: 20MHz

Lowest channel



Date: 23.JAN.2018 09:06:55

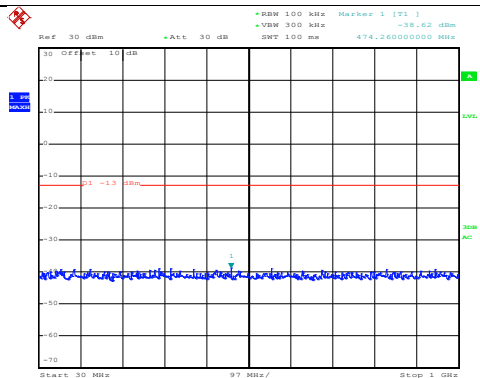
30MHz~1GHz



Date: 23.JAN.2018 07:05:21

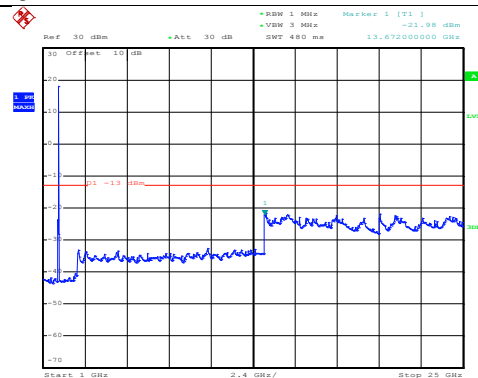
1GHz~25GHz

Middle channel



Date: 23.JAN.2018 09:07:21

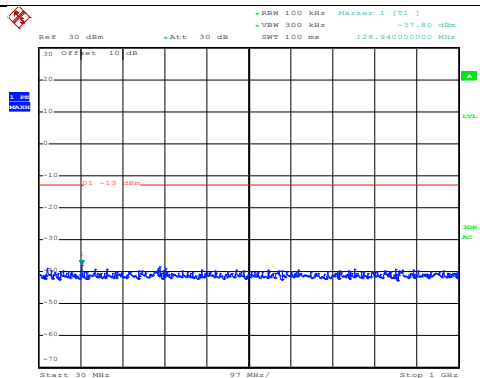
30MHz~1GHz



Date: 23.JAN.2018 07:06:10

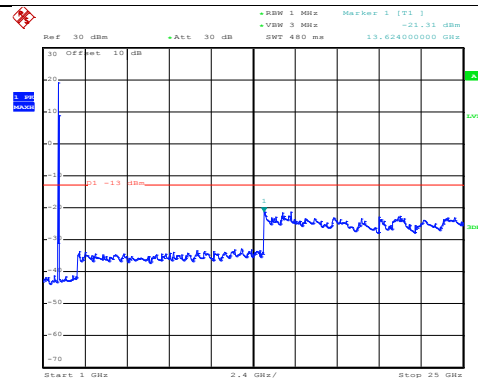
1GHz~25GHz

High channel



Date: 23.JAN.2018 09:07:50

30MHz~1GHz



Date: 23.JAN.2018 07:06:57

1GHz~25GHz