

### FCC Report (LTE)

**Applicant:** Darmuoba, S.A. de C.V  
**Address of Applicant:** Mar Negro 1, Col. Tacuba, CDMX. C.P 11410 Miguel Hidalgo, Distrito Federal, Mexico  
**Manufacturer/Factory:** Z-TECH COMMUNICATION(SZ)CO;LTD  
**Address of Manufacturer/Factory:** 7L BLK D BAO'AN ZHIGU YIN'TIAN ROAD NO.4 XI'XIANG, BAO'AN DISTRICT SZ CHINA  
**Equipment Under Test (EUT)**  
Product Name: MOBIE PHONE  
Model No.: SD50  
Trade mark: UNEONE  
**FCC ID:** 2AIFYSD50  
**Applicable standards:** FCC CFR Title 47 Part 2  
FCC CFR Title 47 Part 22  
FCC CFR Title 47 Part 24  
FCC CFR Title 47 Part 27  
**Date of sample receipt:** April 28, 2019  
**Date of Test:** April 29, 2019-May 30, 2019  
**Date of report issued:** May 31, 2019  
**Test Result :** PASS \*

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

Authorized Signature:



**Robinson Lo**  
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

Version No.	Date	Description
00	May 31, 2019	Original

Prepared By:

*Bill. Yuan*

Date:

May 31, 2019

Project Engineer

Check By:

*Robinson*

Date:

May 31, 2019

Reviewer

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## 4 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a) Part 24.232 (c) Part 27.50(c)(10)/(d)(4)	Pass
Peak-to-Average Ratio	FCC part24.232(d) FCC Part 27.50(a)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 24.238 Part 27.53(h)/(g)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 24.238 (a) Part 27.53(h)/(g)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 24.238 (a) Part 27.53(h)/(g)	Pass
Out of band emission, Band Edge	Part 24.238 (a) Part 27.53(h)/(g)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

*Remarks:*

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *N/A: Not applicable.*

## 5 General Information

### 5.1 General Description of EUT

Product Name:	MOBIE PHONE
Model No.:	SD50
Serial No.:	356888100000437
Hardware Version:	SD50_V1.1
Software Version:	SD50_002R
Tested Sample(s) ID:	GTS201904000204-1
Support Networks:	LTE
Support Bands:	LTE Band 4, LTE Band 5, LTE Band 7, LTE Band 66
Channel Bandwidth:	LTE Band 4: 1.4MHz; 3MHz; 5MHz; 10MHz; 15MHz; 20MHz LTE Band 5: 1.4MHz; 3MHz; 5MHz; 10MHz LTE Band 7: 5MHz; 10MHz; 15MHz; 20MHz LTE Band 66: 1.4MHz; 3MHz; 5MHz; 10MHz; 15MHz; 20MHz
TX Frequency:	LTE Band 4: 1710.70MHz-1754.30MHz LTE Band 5: 824.7MHz-848.3MHz LTE Band 7: 2502.50MHz-2567.50MHz LTE Band 66: 1710.7MHz-1779.3MHz
Modulation type:	LTE Band 4/5/7/66: QPSK, 16QAM
Antenna type:	PIFA antenna
Antenna gain:	Band 4/66: 1.32dBi(Max) Band 5: --3.79dBi(Max) Band 7: 1.23dBi(Max)
Power supply:	Adaptor Model:SD50-A Input: AC 100-240V, 50-60Hz, 150mA Output: DC 5V, 800mA Or Battery: DC 3.8V, 2000mAh, 7.6W

## Test Frequency

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 4	1.4M	Channel 19957	Channel 20175	Channel 20393
		1710.7 MHz	1732.5 MHz	1754.3 MHz
	3M	Channel 19965	Channel 20175	Channel 20385
		1711.5 MHz	1732.5 MHz	1753.5 MHz
	5M	Channel 19975	Channel 20175	Channel 20375
		1712.5 MHz	1732.5 MHz	1752.5 MHz
	10M	Channel 20000	Channel 20175	Channel 20350
		1715 MHz	1732.5 MHz	1750 MHz
	15M	Channel 20025	Channel 20175	Channel 20325
		1717.5 MHz	1732.5 MHz	1747.5 MHz
	20M	Channel 20050	Channel 20175	Channel 20300
		1720 MHz	1732.5 MHz	1745 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 5	1.4M	Channel 20407	Channel 20525	Channel 20643
		824.7 MHz	836.5 MHz	848.3 MHz
	3M	Channel 20415	Channel 20525	Channel 20635
		825.5 MHz	836.5 MHz	847.5 MHz
	5M	Channel 20425	Channel 20525	Channel 20625
		826.5 MHz	836.5 MHz	846.5 MHz
	10M	Channel 20450	Channel 20525	Channel 20600
		829 MHz	836.5 MHz	844 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 7	5M	Channel 20775	Channel 21100	Channel 21425
		2502.5 MHz	2535 MHz	2567.5 MHz
	10M	Channel 20800	Channel 21100	Channel 21400
		2505 MHz	2535 MHz	2565 MHz
	15M	Channel 20825	Channel 21100	Channel 21375
		2507.5 MHz	2535 MHz	2562.5 MHz
	20M	Channel 20850	Channel 21100	Channel 21350
		2510 MHz	2535 MHz	2560 MHz

Test Mode	Channel Bandwidth	RF Channel		
		Lowest channel	Middle channel	Highest channel
LTE Band 66	1.4M	Channel 131979	Channel 132322	Channel 132665
		1710.7MHz	1745.0 MHz	1779.3 MHz
	3M	Channel 131987	Channel 132322	Channel 132657
		1711.5 MHz	1745.0 MHz	1778.5 MHz
	5M	Channel 131997	Channel 132322	Channel 132647
		1752.5 MHz	1745.0 MHz	1777.5 MHz
	10M	Channel 132022	Channel 132322	Channel 132622
		1715.0 MHz	1745.0 MHz	1775.0 MHz
	15M	Channel 132047	Channel 132322	Channel 132597
		1717.5 MHz	1745.0 MHz	1772.5 MHz
	20M	Channel 132072	Channel 132322	Channel 132572
		1720.0 MHz	1745.0 MHz	1770.0 MHz

## 5.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22/24/27 of the FCC CFR 47 Rules.

## 5.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.26:2015 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

## 5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960



## 6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019

<b>RF Conducted Test:</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal.Date (mm-dd-yy)</b>	<b>Cal.Due date (mm-dd-yy)</b>
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019

<b>General used equipment:</b>						
<b>Item</b>	<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Inventory No.</b>	<b>Cal.Date (mm-dd-yy)</b>	<b>Cal.Due date (mm-dd-yy)</b>
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019

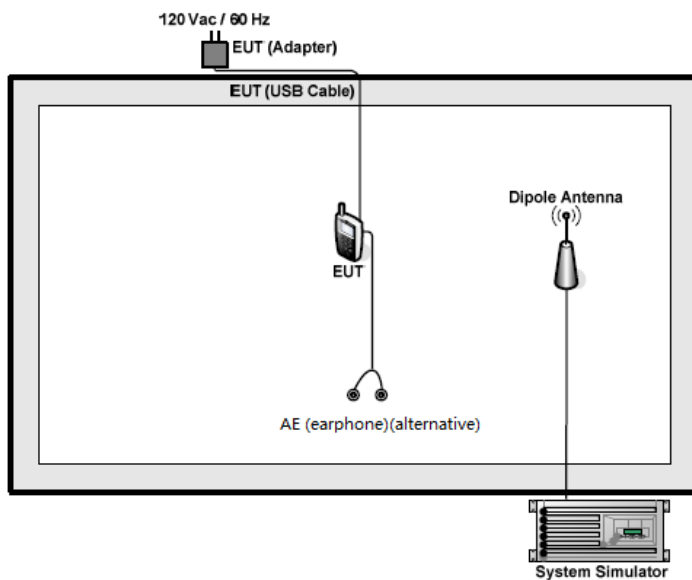
## 7 System test configuration

### 7.1 Test mode

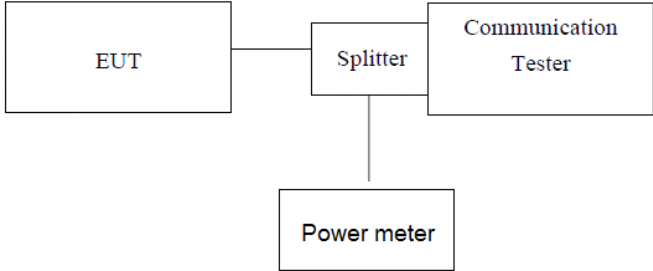
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 4	■ QPSK and 16QAM link	■ QPSK and 16QAM link
LTE Band 5	■ QPSK and 16QAM link	■ QPSK and 16QAM link
LTE Band 7	■ QPSK and 16QAM link	■ QPSK and 16QAM link
LTE Band 66	■ QPSK and 16QAM link	■ QPSK and 16QAM link

### 7.2 Configuration of Tested System



## 7.3 Conducted Peak Output Power

Test Requirement:	FCC part 22.913(a), Part 24.232 (c); Part 27.50(c)(10)/(d)(4)
Test Method:	FCC part 2.1046
Limit:	LTE Band 4: 1W LTE Band 5: 7W LTE Band 7: 2W LTE Band 66: 1W
Test setup:	 <p style="text-align: center;"><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> <li>1. The transmitter output port was connected to base station.</li> <li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.</li> <li>3. Set EUT at maximum power through base station.</li> <li>4. Select lowest, middle, and highest channels for each band and different modulation.</li> <li>5. Measure the maximum burst average power.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

Measurement Data

Band 4						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19957 1710.7MHz	Channel 20175 1732.5MHz	Channel 20393 1754.3MHz
1.4MHz	QPSK	1.00	0.00	22.38	22.68	22.23
		1.00	2.00	22.34	22.26	22.38
		1.00	5.00	22.24	22.25	22.64
		3.00	0.00	22.02	21.83	22.24
		3.00	1.00	22.35	22.12	22.29
		3.00	2.00	22.33	22.01	22.07
		6.00	0.00	22.43	22.57	22.21
	16QAM	1.00	0.00	22.45	22.32	22.22
		1.00	2.00	22.28	22.42	22.35
		1.00	5.00	22.07	22.16	22.23
		3.00	0.00	22.01	22.00	22.02
		3.00	1.00	22.09	22.10	21.92
		3.00	2.00	22.04	22.15	21.74
		6.00	0.00	22.30	22.25	22.06
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19965 1711.5MHz	Channel 20175 1732.5MHz	Channel 20385 1753.5MHz
3MHz	QPSK	1.00	0.00	22.35	22.23	22.29
		1.00	8.00	22.15	21.97	21.82
		1.00	14.00	22.24	22.05	22.04
		8.00	0.00	22.35	22.20	21.86
		8.00	4.00	22.19	22.14	21.97
		8.00	7.00	22.25	21.97	21.89
		15.00	0.00	22.33	22.37	22.14
	16QAM	1.00	0.00	22.14	21.88	21.48
		1.00	8.00	22.15	21.92	21.93
		1.00	14.00	21.78	21.91	21.95
		8.00	0.00	21.86	21.94	21.86
		8.00	4.00	22.01	22.21	21.77
		8.00	7.00	22.06	22.01	22.04
		15.00	0.00	22.23	21.97	21.89

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 19975 1712.5MHz	Channel 20175 1732.5MHz	Channel 20375 1752.5MHz
5MHz	QPSK	1.00	0.00	22.22	22.12	22.41
		1.00	13.00	22.41	22.05	22.12
		1.00	24.00	21.88	21.73	22.12
		12.00	0.00	22.25	21.89	22.05
		12.00	6.00	22.30	21.94	21.99
		12.00	13.00	22.19	21.86	21.85
		25.00	0.00	22.29	21.93	22.02
	16QAM	1.00	0.00	22.31	22.14	22.03
		1.00	13.00	21.87	22.28	21.75
		1.00	24.00	21.33	22.31	21.36
		12.00	0.00	22.18	22.05	21.17
		12.00	6.00	21.90	21.83	21.90
		12.00	13.00	22.38	22.32	22.35
		25.00	0.00	22.13	21.93	22.11
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20000 1715.0MHz	Channel 20175 1732.5MHz	Channel 20350 1750.0MHz
10MHz	QPSK	1.00	0.00	22.17	22.12	22.37
		1.00	25.00	21.66	22.13	22.03
		1.00	49.00	21.50	22.21	21.44
		25.00	0.00	21.33	22.02	22.20
		25.00	13.00	21.74	21.79	21.98
		25.00	25.00	22.27	22.01	22.18
		50.00	0.00	22.12	21.78	21.95
	16QAM	1.00	0.00	21.67	21.67	22.09
		1.00	25.00	22.14	21.61	22.14
		1.00	49.00	21.36	22.08	21.71
		25.00	0.00	21.65	21.92	21.99
		25.00	13.00	22.23	21.77	22.19
		25.00	25.00	21.13	22.08	21.45
		50.00	0.00	21.98	21.97	21.79

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20025 1717.5MHz	Channel 20175 1732.5MHz	Channel 20325 1747.5MHz
15MHz	QPSK	1.00	0.00	22.24	22.09	22.33
		1.00	38.00	22.13	21.81	22.05
		1.00	74.00	21.96	21.76	21.49
		36.00	0.00	21.65	22.49	22.22
		36.00	18.00	21.50	21.70	21.96
		36.00	39.00	22.11	22.52	22.10
		75.00	0.00	22.13	21.96	21.43
	16QAM	1.00	0.00	22.19	22.07	22.14
		1.00	38.00	21.47	22.28	21.78
		1.00	74.00	21.77	22.38	22.05
		36.00	0.00	22.40	22.31	22.21
		36.00	18.00	21.82	21.45	21.94
		36.00	39.00	22.01	22.18	22.27
		75.00	0.00	22.14	22.27	21.21
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20050 1720.0MHz	Channel 20175 1732.5MHz	Channel 20300 1745.0MHz
20MHz	QPSK	1.00	0.00	22.40	22.35	22.48
		1.00	50.00	22.19	21.91	21.83
		1.00	99.00	22.27	22.08	22.46
		50.00	0.00	22.04	22.32	22.39
		50.00	25.00	21.66	22.09	22.12
		50.00	50.00	22.06	21.92	22.15
		100.00	0.00	22.04	22.08	21.81
	16QAM	1.00	0.00	22.23	22.27	22.35
		1.00	50.00	22.08	22.12	22.27
		1.00	99.00	22.39	22.29	22.43
		50.00	0.00	21.93	22.05	21.96
		50.00	25.00	22.19	22.34	22.28
		50.00	50.00	22.38	22.21	21.63
		100.00	0.00	22.37	22.22	21.95

Band 5						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20407 824.7MHz	Channel 20525 836.5MHz	Channel 20643 848.3MHz
1.4MHz	QPSK	1.00	0.00	22.34	22.43	22.14
		1.00	3.00	21.95	21.98	21.94
		1.00	5.00	21.96	22.30	21.85
		3.00	0.00	21.95	22.39	21.69
		3.00	2.00	21.86	21.94	21.94
		3.00	3.00	21.76	22.43	21.70
		6.00	0.00	21.94	22.55	22.20
	16QAM	1.00	0.00	21.64	22.25	22.00
		1.00	3.00	21.86	22.63	21.78
		1.00	5.00	21.57	22.35	22.01
		3.00	0.00	21.26	21.96	21.68
		3.00	2.00	22.09	22.90	22.25
		3.00	3.00	21.79	22.77	21.97
		6.00	0.00	21.81	22.45	22.14
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20415 825.5MHz	Channel 20525 836.5MHz	Channel 20635 847.5MHz
3MHz	QPSK	1.00	0.00	21.95	22.06	22.00
		1.00	3.00	21.45	21.97	21.81
		1.00	5.00	21.65	21.86	21.83
		3.00	0.00	21.26	21.80	21.46
		3.00	2.00	21.45	21.85	21.56
		3.00	3.00	21.65	21.66	21.68
		6.00	0.00	21.95	21.94	21.78
	16QAM	1.00	0.00	21.54	21.66	21.92
		1.00	3.00	21.73	21.69	21.80
		1.00	5.00	21.23	21.88	21.65
		3.00	0.00	21.25	21.93	21.92
		3.00	2.00	21.46	21.98	21.78
		3.00	3.00	21.47	21.69	21.45
		6.00	0.00	21.57	21.72	21.84



Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20425 826.5MHz	Channel 20525 836.5MHz	Channel 20625 846.5MHz
5MHz	QPSK	1.00	0.00	22.08	22.20	22.22
		1.00	13.00	21.75	22.16	22.08
		1.00	24.00	21.53	22.01	22.02
		12.00	0.00	21.94	21.89	21.69
		12.00	6.00	21.56	22.00	21.89
		12.00	13.00	21.53	21.78	22.01
		25.00	0.00	21.90	21.40	22.13
	16QAM	1.00	0.00	21.83	21.31	22.18
		1.00	13.00	21.76	21.35	22.16
		1.00	24.00	21.56	21.54	22.10
		12.00	0.00	21.91	21.50	21.97
		12.00	6.00	21.56	21.23	21.86
		12.00	13.00	21.53	21.31	22.01
		25.00	0.00	21.92	21.70	22.12
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20450 829MHz	Channel 20525 836.5MHz	Channel 20600 844MHz
10MHz	QPSK	1.00	0.00	22.17	22.09	22.12
		1.00	25.00	21.75	22.31	22.03
		1.00	49.00	22.04	22.67	22.30
		25.00	0.00	21.72	22.46	22.03
		25.00	13.00	21.92	22.47	21.98
		25.00	25.00	21.68	22.36	22.00
		50.00	0.00	21.19	22.04	21.56
	16QAM	1.00	0.00	21.64	22.37	21.94
		1.00	25.00	21.53	22.16	21.71
		1.00	49.00	21.45	21.97	21.53
		25.00	0.00	21.63	22.18	21.42
		25.00	13.00	21.69	22.30	21.93
		25.00	25.00	21.66	22.24	21.86
		50.00	0.00	21.67	22.24	21.77

Band 7						
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20775 2502.5MHz	Channel 21100 2535MHz	Channel 21425 2567.5MHz
5MHz	QPSK	1.00	0.00	22.20	22.26	22.31
		1.00	13.00	22.25	22.05	22.33
		1.00	24.00	21.86	22.19	22.25
		12.00	0.00	21.96	22.12	22.26
		12.00	6.00	22.12	22.36	22.34
		12.00	13.00	22.13	22.28	22.35
		25.00	0.00	21.96	22.12	22.36
	16QAM	1.00	0.00	21.78	22.26	22.22
		1.00	13.00	22.15	22.28	22.28
		1.00	24.00	22.13	22.08	22.25
		12.00	0.00	22.19	22.02	22.30
		12.00	6.00	21.85	22.01	22.25
		12.00	13.00	21.74	22.10	22.34
		25.00	0.00	21.76	22.01	22.35
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20800 2505.0MHz	Channel 21100 2535MHz	Channel 21400 2565.0MHz
10MHz	QPSK	1	0	22.31	22.27	22.25
		1	25	22.18	22.26	22.20
		1	49	22.29	22.15	22.27
		25	0	22.11	22.12	22.30
		25	13	21.91	22.24	22.13
		25	25	22.11	22.25	22.11
		50	0	22.01	22.18	22.28
	16QAM	1	0	21.82	22.32	22.26
		1	25	22.20	22.32	22.24
		1	49	22.29	22.31	22.23
		25	0	22.11	22.05	22.21
		25	13	22.33	22.15	22.22
		25	25	22.30	22.21	22.30
		50	0	22.21	22.36	22.32

Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20825 2507.5MHz	Channel 21100 2535MHz	Channel 21375 2562.5MHz
15MHz	QPSK	1.00	0.00	22.25	22.28	22.27
		1.00	38.00	22.25	22.29	22.24
		1.00	74.00	22.10	22.02	22.28
		36.00	0.00	22.21	22.10	22.26
		36.00	18.00	22.11	22.20	22.24
		36.00	39.00	22.14	22.22	22.18
		75.00	0.00	22.20	22.07	22.09
	16QAM	1.00	0.00	22.08	22.18	22.21
		1.00	38.00	22.20	22.05	22.13
		1.00	74.00	22.11	22.13	22.24
		36.00	0.00	22.12	22.06	22.17
		36.00	18.00	22.24	22.18	22.22
		36.00	39.00	22.19	22.22	22.28
		75.00	0.00	22.12	22.05	22.16
Bandwidth	Mode	RB Size	RB Offset	Actual output power(dBm)		
				Channel 20850 2510.0MHz	Channel 21100 2535MHz	Channel 21350 2560.0MHz
20MHz	QPSK	1.00	0.00	22.45	22.01	22.42
		1.00	50.00	21.89	22.02	22.27
		1.00	99.00	21.74	22.17	22.14
		50.00	0.00	22.23	22.31	21.99
		50.00	25.00	22.07	22.15	22.15
		50.00	50.00	22.31	21.96	21.91
		100.00	0.00	22.12	22.30	22.24
	16QAM	1.00	0.00	21.89	22.21	22.25
		1.00	50.00	21.78	21.97	22.17
		1.00	99.00	21.89	22.36	22.02
		50.00	0.00	22.13	22.31	22.27
		50.00	25.00	21.98	22.38	22.26
		50.00	50.00	21.96	22.04	22.26
		100.00	0.00	21.76	22.15	22.27

**Band 66**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	23.47	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	23.56	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	23.45	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	23.53	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	23.55	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	23.56	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	22.55	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	23.10	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.16	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	23.13	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	23.12	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	23.14	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	23.25	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.13	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.77	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.92	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.68	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	22.89	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	22.89	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	22.66	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.90	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.59	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.72	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	22.61	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	22.43	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	22.45	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	22.45	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.38	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	22.20	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.36	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	22.23	PASS

Band66	1.4MHz	16QAM	132322	3RB#0	22.07	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	22.06	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	22.09	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.97	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.88	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.09	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.87	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	21.76	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	21.84	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	21.80	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.76	PASS
Band66	3MHz	QPSK	131987	1RB#0	23.58	PASS
Band66	3MHz	QPSK	131987	1RB#8	23.58	PASS
Band66	3MHz	QPSK	131987	1RB#14	23.52	PASS
Band66	3MHz	QPSK	131987	8RB#0	22.60	PASS
Band66	3MHz	QPSK	131987	8RB#4	22.60	PASS
Band66	3MHz	QPSK	131987	8RB#7	22.54	PASS
Band66	3MHz	QPSK	131987	15RB#0	22.49	PASS
Band66	3MHz	QPSK	132322	1RB#0	23.12	PASS
Band66	3MHz	QPSK	132322	1RB#8	23.15	PASS
Band66	3MHz	QPSK	132322	1RB#14	23.19	PASS
Band66	3MHz	QPSK	132322	8RB#0	22.21	PASS
Band66	3MHz	QPSK	132322	8RB#4	22.18	PASS
Band66	3MHz	QPSK	132322	8RB#7	22.20	PASS
Band66	3MHz	QPSK	132322	15RB#0	22.16	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.86	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.85	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.53	PASS
Band66	3MHz	QPSK	132657	8RB#0	22.00	PASS
Band66	3MHz	QPSK	132657	8RB#4	21.97	PASS
Band66	3MHz	QPSK	132657	8RB#7	21.98	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.94	PASS
Band66	3MHz	16QAM	131987	1RB#0	22.75	PASS
Band66	3MHz	16QAM	131987	1RB#8	22.72	PASS
Band66	3MHz	16QAM	131987	1RB#14	22.68	PASS

Band66	3MHz	16QAM	131987	8RB#0	21.56	PASS
Band66	3MHz	16QAM	131987	8RB#4	21.57	PASS
Band66	3MHz	16QAM	131987	8RB#7	21.54	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.42	PASS
Band66	3MHz	16QAM	132322	1RB#0	22.30	PASS
Band66	3MHz	16QAM	132322	1RB#8	22.35	PASS
Band66	3MHz	16QAM	132322	1RB#14	22.36	PASS
Band66	3MHz	16QAM	132322	8RB#0	21.24	PASS
Band66	3MHz	16QAM	132322	8RB#4	21.22	PASS
Band66	3MHz	16QAM	132322	8RB#7	21.24	PASS
Band66	3MHz	16QAM	132322	15RB#0	21.18	PASS
Band66	3MHz	16QAM	132657	1RB#0	22.12	PASS
Band66	3MHz	16QAM	132657	1RB#8	22.02	PASS
Band66	3MHz	16QAM	132657	1RB#14	22.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	21.00	PASS
Band66	3MHz	16QAM	132657	8RB#4	21.03	PASS
Band66	3MHz	16QAM	132657	8RB#7	20.97	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.97	PASS
Band66	5MHz	QPSK	131997	1RB#0	23.58	PASS
Band66	5MHz	QPSK	131997	1RB#12	23.61	PASS
Band66	5MHz	QPSK	131997	1RB#24	23.50	PASS
Band66	5MHz	QPSK	131997	12RB#0	22.48	PASS
Band66	5MHz	QPSK	131997	12RB#6	22.49	PASS
Band66	5MHz	QPSK	131997	12RB#13	22.56	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.54	PASS
Band66	5MHz	QPSK	132322	1RB#0	23.12	PASS
Band66	5MHz	QPSK	132322	1RB#12	23.30	PASS
Band66	5MHz	QPSK	132322	1RB#24	23.22	PASS
Band66	5MHz	QPSK	132322	12RB#0	22.15	PASS
Band66	5MHz	QPSK	132322	12RB#6	22.16	PASS
Band66	5MHz	QPSK	132322	12RB#13	22.23	PASS
Band66	5MHz	QPSK	132322	25RB#0	22.25	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.92	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.99	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.87	PASS

Band66	5MHz	QPSK	132647	12RB#0	21.93	PASS
Band66	5MHz	QPSK	132647	12RB#6	21.97	PASS
Band66	5MHz	QPSK	132647	12RB#13	21.87	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.95	PASS
Band66	5MHz	16QAM	131997	1RB#0	22.54	PASS
Band66	5MHz	16QAM	131997	1RB#12	22.61	PASS
Band66	5MHz	16QAM	131997	1RB#24	22.49	PASS
Band66	5MHz	16QAM	131997	12RB#0	21.46	PASS
Band66	5MHz	16QAM	131997	12RB#6	21.48	PASS
Band66	5MHz	16QAM	131997	12RB#13	21.57	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.52	PASS
Band66	5MHz	16QAM	132322	1RB#0	22.13	PASS
Band66	5MHz	16QAM	132322	1RB#12	22.28	PASS
Band66	5MHz	16QAM	132322	1RB#24	22.22	PASS
Band66	5MHz	16QAM	132322	12RB#0	21.16	PASS
Band66	5MHz	16QAM	132322	12RB#6	21.17	PASS
Band66	5MHz	16QAM	132322	12RB#13	21.21	PASS
Band66	5MHz	16QAM	132322	25RB#0	21.23	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.89	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.97	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.81	PASS
Band66	5MHz	16QAM	132647	12RB#0	20.95	PASS
Band66	5MHz	16QAM	132647	12RB#6	20.98	PASS
Band66	5MHz	16QAM	132647	12RB#13	20.88	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.96	PASS
Band66	10MHz	QPSK	132022	1RB#0	23.53	PASS
Band66	10MHz	QPSK	132022	1RB#24	23.62	PASS
Band66	10MHz	QPSK	132022	1RB#49	23.52	PASS
Band66	10MHz	QPSK	132022	25RB#0	22.57	PASS
Band66	10MHz	QPSK	132022	25RB#12	22.57	PASS
Band66	10MHz	QPSK	132022	25RB#25	22.63	PASS
Band66	10MHz	QPSK	132022	50RB#0	22.62	PASS
Band66	10MHz	QPSK	132322	1RB#0	23.12	PASS
Band66	10MHz	QPSK	132322	1RB#24	23.29	PASS
Band66	10MHz	QPSK	132322	1RB#49	23.23	PASS

Band66	10MHz	QPSK	132322	25RB#0	22.26	PASS
Band66	10MHz	QPSK	132322	25RB#12	22.28	PASS
Band66	10MHz	QPSK	132322	25RB#25	22.33	PASS
Band66	10MHz	QPSK	132322	50RB#0	22.31	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.93	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.05	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.85	PASS
Band66	10MHz	QPSK	132622	25RB#0	22.08	PASS
Band66	10MHz	QPSK	132622	25RB#12	22.06	PASS
Band66	10MHz	QPSK	132622	25RB#25	22.01	PASS
Band66	10MHz	QPSK	132622	50RB#0	22.01	PASS
Band66	10MHz	16QAM	132022	1RB#0	22.70	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.69	PASS
Band66	10MHz	16QAM	132022	1RB#49	22.68	PASS
Band66	10MHz	16QAM	132022	25RB#0	21.54	PASS
Band66	10MHz	16QAM	132022	25RB#12	21.53	PASS
Band66	10MHz	16QAM	132022	25RB#25	21.60	PASS
Band66	10MHz	16QAM	132022	50RB#0	21.55	PASS
Band66	10MHz	16QAM	132322	1RB#0	22.29	PASS
Band66	10MHz	16QAM	132322	1RB#24	22.47	PASS
Band66	10MHz	16QAM	132322	1RB#49	22.42	PASS
Band66	10MHz	16QAM	132322	25RB#0	21.24	PASS
Band66	10MHz	16QAM	132322	25RB#12	21.24	PASS
Band66	10MHz	16QAM	132322	25RB#25	21.27	PASS
Band66	10MHz	16QAM	132322	50RB#0	21.25	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.12	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.17	PASS
Band66	10MHz	16QAM	132622	1RB#49	22.02	PASS
Band66	10MHz	16QAM	132622	25RB#0	21.04	PASS
Band66	10MHz	16QAM	132622	25RB#12	21.07	PASS
Band66	10MHz	16QAM	132622	25RB#25	21.02	PASS
Band66	10MHz	16QAM	132622	50RB#0	21.04	PASS
Band66	15MHz	QPSK	132047	1RB#0	23.55	PASS
Band66	15MHz	QPSK	132047	1RB#38	23.51	PASS
Band66	15MHz	QPSK	132047	1RB#74	23.54	PASS



Band66	15MHz	QPSK	132047	38RB#0	22.75	PASS
Band66	15MHz	QPSK	132047	38RB#18	22.77	PASS
Band66	15MHz	QPSK	132047	38RB#37	22.80	PASS
Band66	15MHz	QPSK	132047	75RB#0	22.61	PASS
Band66	15MHz	QPSK	132322	1RB#0	23.06	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.19	PASS
Band66	15MHz	QPSK	132322	1RB#74	23.20	PASS
Band66	15MHz	QPSK	132322	38RB#0	22.26	PASS
Band66	15MHz	QPSK	132322	38RB#18	22.44	PASS
Band66	15MHz	QPSK	132322	38RB#37	22.39	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.31	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.91	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.97	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.98	PASS
Band66	15MHz	QPSK	132597	38RB#0	22.10	PASS
Band66	15MHz	QPSK	132597	38RB#18	22.17	PASS
Band66	15MHz	QPSK	132597	38RB#37	21.96	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.19	PASS
Band66	15MHz	16QAM	132047	1RB#0	22.79	PASS
Band66	15MHz	16QAM	132047	1RB#38	22.76	PASS
Band66	15MHz	16QAM	132047	1RB#74	22.76	PASS
Band66	15MHz	16QAM	132047	38RB#0	22.77	PASS
Band66	15MHz	16QAM	132047	38RB#18	22.79	PASS
Band66	15MHz	16QAM	132047	38RB#37	22.77	PASS
Band66	15MHz	16QAM	132047	75RB#0	21.58	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.22	PASS
Band66	15MHz	16QAM	132322	1RB#38	22.38	PASS
Band66	15MHz	16QAM	132322	1RB#74	22.42	PASS
Band66	15MHz	16QAM	132322	38RB#0	22.26	PASS
Band66	15MHz	16QAM	132322	38RB#18	22.42	PASS
Band66	15MHz	16QAM	132322	38RB#37	22.37	PASS
Band66	15MHz	16QAM	132322	75RB#0	21.24	PASS
Band66	15MHz	16QAM	132597	1RB#0	22.11	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.15	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.95	PASS

Band66	15MHz	16QAM	132597	38RB#0	22.11	PASS
Band66	15MHz	16QAM	132597	38RB#18	22.15	PASS
Band66	15MHz	16QAM	132597	38RB#37	21.97	PASS
Band66	15MHz	16QAM	132597	75RB#0	21.08	PASS
Band66	20MHz	QPSK	132072	1RB#0	23.41	PASS
Band66	20MHz	QPSK	132072	1RB#49	23.70	PASS
Band66	20MHz	QPSK	132072	1RB#99	23.60	PASS
Band66	20MHz	QPSK	132072	50RB#0	22.49	PASS
Band66	20MHz	QPSK	132072	50RB#25	22.49	PASS
Band66	20MHz	QPSK	132072	50RB#50	22.61	PASS
Band66	20MHz	QPSK	132072	100RB#0	22.54	PASS
Band66	20MHz	QPSK	132322	1RB#0	23.01	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.55	PASS
Band66	20MHz	QPSK	132322	1RB#99	23.16	PASS
Band66	20MHz	QPSK	132322	50RB#0	22.24	PASS
Band66	20MHz	QPSK	132322	50RB#25	22.24	PASS
Band66	20MHz	QPSK	132322	50RB#50	22.27	PASS
Band66	20MHz	QPSK	132322	100RB#0	22.24	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.35	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.68	PASS
Band66	20MHz	QPSK	132572	1RB#99	23.34	PASS
Band66	20MHz	QPSK	132572	50RB#0	22.67	PASS
Band66	20MHz	QPSK	132572	50RB#25	22.71	PASS
Band66	20MHz	QPSK	132572	50RB#50	22.59	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.60	PASS
Band66	20MHz	16QAM	132072	1RB#0	22.43	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.65	PASS
Band66	20MHz	16QAM	132072	1RB#99	22.60	PASS
Band66	20MHz	16QAM	132072	50RB#0	21.47	PASS
Band66	20MHz	16QAM	132072	50RB#25	21.49	PASS
Band66	20MHz	16QAM	132072	50RB#50	21.57	PASS
Band66	20MHz	16QAM	132072	100RB#0	21.54	PASS
Band66	20MHz	16QAM	132322	1RB#0	22.02	PASS
Band66	20MHz	16QAM	132322	1RB#49	22.45	PASS
Band66	20MHz	16QAM	132322	1RB#99	22.22	PASS



Report No.: GTS201904000204F05

Band66	20MHz	16QAM	132322	50RB#0	21.23	PASS
Band66	20MHz	16QAM	132322	50RB#25	21.22	PASS
Band66	20MHz	16QAM	132322	50RB#50	21.30	PASS
Band66	20MHz	16QAM	132322	100RB#0	21.23	PASS
Band66	20MHz	16QAM	132572	1RB#0	22.42	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.75	PASS
Band66	20MHz	16QAM	132572	1RB#99	22.22	PASS
Band66	20MHz	16QAM	132572	50RB#0	21.66	PASS
Band66	20MHz	16QAM	132572	50RB#25	21.70	PASS
Band66	20MHz	16QAM	132572	50RB#50	21.59	PASS
Band66	20MHz	16QAM	132572	100RB#0	21.64	PASS

## 7.4 Peak-to-Average Ratio

Test Requirement:	FCC part24.232(d) & FCC Part 27.50
Test Method:	FCC part2.1046
Limit:	13db
Test setup:	<pre> graph LR     CC[Control Computer] --&gt; EUT[EUT]     PS[Power Supply] --&gt; EUT     EUT --&gt; PD[Power Divider]     PD --&gt; WC[Wireless Communication]     PD --&gt; SA[Spectrum Analyzer]             </pre>
Test Procedure:	<p>A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.</p> <p><b>Test Settings</b></p> <ol style="list-style-type: none"> <li>1. The signal analyzer's CCDF measurement profile enabled</li> <li>2. Frequency= carrier center frequency</li> <li>3. Measurement BW &gt; EBW of signal</li> <li>4. for continuous transmissions, set to 1ms</li> </ol> <p>Record the maximum PAPR level associated with a probability of 0.1%.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

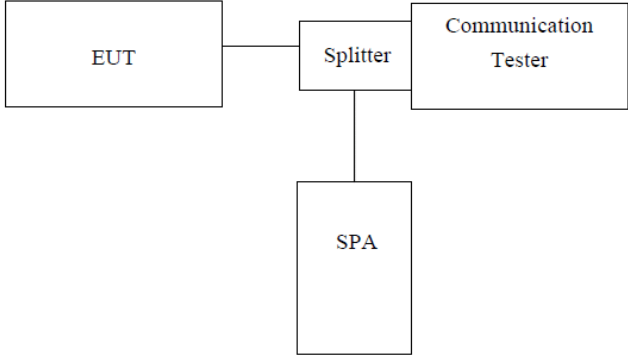
Remark: Both modulation modes have been tested, showing only the worst QPSK test data.

**Measurement data:**

Test Band	Test mode	Measured (dB)			Limit (dB)	Result
		Low Ch.	Middle Ch.	High Ch.		
LTE Band 4	LTE 1.4MHz Bandwidth	4.65	4.95	4.83	13.00	PASS
	LTE 3MHz Bandwidth	4.86	4.95	4.89	13.00	PASS
	LTE 5MHz Bandwidth	4.31	4.41	4.71	13.00	PASS
	LTE 10MHz Bandwidth	4.52	4.52	4.42	13.00	PASS
	LTE 15MHz Bandwidth	5.07	5.17	5.13	13.00	PASS
	LTE 20MHz Bandwidth	5.31	5.20	5.19	13.00	PASS
LTE Band 66	LTE 1.4MHz Bandwidth	4.79	4.84	5.01	13.00	PASS
	LTE 3MHz Bandwidth	4.82	4.91	5.05	13.00	PASS
	LTE 5MHz Bandwidth	5.12	5.01	4.89	13.00	PASS
	LTE 10MHz Bandwidth	4.97	4.62	5.05	13.00	PASS
	LTE 15MHz Bandwidth	5.11	5.24	5.07	13.00	PASS
	LTE 20MHz Bandwidth	5.25	5.30	5.62	13.00	PASS

Test Band	Test mode	Peak to Average Ratio ( dB )			Limit ( dB )	Result
		Low Ch.	Middle Ch.	High Ch.		
LTE Band 5	LTE 1.4MHz Bandwidth	5.12	5.07	5.11	13.00	PASS
	LTE 3MHz Bandwidth	5.21	5.03	5.02	13.00	PASS
	LTE 5MHz Bandwidth	5.13	5.26	5.21	13.00	PASS
	LTE 10MHz Bandwidth	4.98	5.15	5.18	13.00	PASS
LTE Band 7	LTE 5MHz Bandwidth	5.03	5.07	5.13	13.00	PASS
	LTE 10MHz Bandwidth	5.25	5.16	5.42	13.00	PASS
	LTE 15MHz Bandwidth	5.28	5.12	5.02	13.00	PASS
	LTE 20MHz Bandwidth	5.10	5.01	5.52	13.00	PASS

## 7.5 Occupancy Bandwidth

Test Requirement:	Part 24.238; FCC Part 27.53(h)/(g)
Test Method:	FCC part2.1049
Test setup:	 <p style="text-align: center;"><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.</li> <li>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.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

**Measurement Data**

QPSK mode:

EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 4	1.4MHz	Low range	6	0	1093.8	1299
		Mid range	6	0	1091.9	1305
		High range	6	0	1109.4	1320
	3MHz	Low range	15	0	2682.0	2927
		Mid range	15	0	2683.4	2953
		High range	15	0	2684.5	2956
	5MHz	Low range	25	0	4501.1	4929
		Mid range	25	0	4514.8	4990
		High range	25	0	4538.3	5051
	10MHz	Low range	50	0	8932.7	9850
		Mid range	50	0	8930.1	9630
		High range	50	0	8930.5	9652
	15MHz	Low range	75	0	13408.5	14516
		Mid range	75	0	13371.0	14245
		High range	75	0	13390.6	14686
	20MHz	Low range	100	0	17807.9	19072
		Mid range	100	0	17781.0	18792
		High range	100	0	17800.0	19121



EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 5	1.4MHz	Low range	6	0	1107.3	1957
		Mid range	6	0	1091.1	1310
		High range	6	0	1091.8	1295
	3MHz	Low range	15	0	2684.5	2949
		Mid range	15	0	2682.6	2931
		High range	15	0	2677.0	2938
	5MHz	Low range	25	0	4515.1	5021
		Mid range	25	0	4508.2	4979
		High range	25	0	4507.1	4971
	10MHz	Low range	50	0	8976.2	9875
		Mid range	50	0	8909.8	9635
		High range	50	0	8935.2	9681

EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 7	5MHz	Low range	6	0	4518.1	5025
		Mid range	6	0	4504.6	4983
		High range	6	0	4508.6	4967
	10MHz	Low range	15	0	8954.4	9678
		Mid range	15	0	8917.6	9702
		High range	15	0	8927.0	9593
	15MHz	Low range	25	0	13381.9	14323
		Mid range	25	0	13338.6	14317
		High range	25	0	13300.6	14383
	20MHz	Low range	50	0	17879.0	19261
		Mid range	50	0	17812.4	19078
		High range	50	0	17801.4	19137

EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 66	1.4MHz	Low range	6	0	1103	1220
		Mid range	6	0	1108	1230
		High range	6	0	1108	1235
	3MHz	Low range	15	0	2676	2840
		Mid range	15	0	2696	2840
		High range	15	0	2696	2830
	5MHz	Low range	25	0	4476	4720
		Mid range	25	0	4476	4730
		High range	25	0	4476	4750
	10MHz	Low range	50	0	8918	9233
		Mid range	50	0	8918	9267
		High range	50	0	8918	9300
	15MHz	Low range	75	0	13378	13850
		Mid range	75	0	13378	13850
		High range	75	0	13378	13850
	20MHz	Low range	100	0	17837	18267
		Mid range	100	0	17837	18267
		High range	100	0	17837	18267

16QAM mode:

EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 4	1.4MHz	Low range	6	0	1096.0	1288
		Mid range	6	0	1096.1	1311
		High range	6	0	1106.4	1300
	3MHz	Low range	15	0	2679.3	2946
		Mid range	15	0	2682.0	2912
		High range	15	0	2683.7	2947
	5MHz	Low range	25	0	4504.1	4997
		Mid range	25	0	4514.2	4976
		High range	25	0	4509.8	5007
	10MHz	Low range	50	0	8937.7	9617
		Mid range	50	0	8919.2	9649
		High range	50	0	8950.9	9823
	15MHz	Low range	75	0	13390.1	14432
		Mid range	75	0	13374.6	14538
		High range	75	0	13390.3	14513
	20MHz	Low range	100	0	17833.4	19168
		Mid range	100	0	17772.4	18923
		High range	100	0	17781.5	19111

EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 5	1.4MHz	Low range	6	0	1106.6	1940
		Mid range	6	0	1096.6	1298
		High range	6	0	1091.1	1272
	3MHz	Low range	15	0	2682.0	2920
		Mid range	15	0	2683.7	2933
		High range	15	0	2678.5	2938
	5MHz	Low range	25	0	4507.2	4968
		Mid range	25	0	4495.6	4988
		High range	25	0	4509.9	5016
	10MHz	Low range	50	0	8974.6	9850
		Mid range	50	0	8912.0	9601
		High range	50	0	8956.8	9641

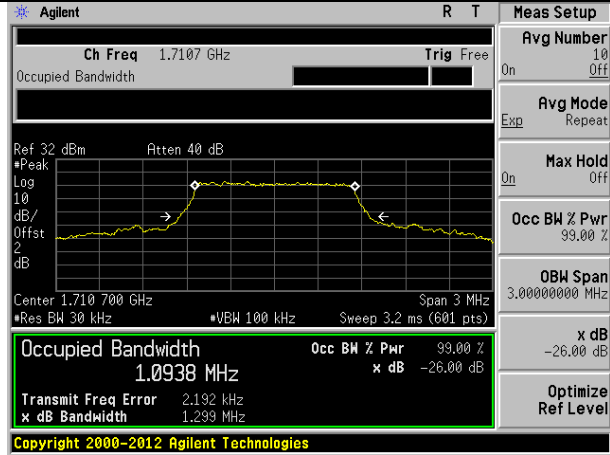
EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 7	5MHz	Low range	6	0	4500.1	4971
		Mid range	6	0	4489.9	4955
		High range	6	0	4501.9	4952
	10MHz	Low range	15	0	8944.3	9613
		Mid range	15	0	8912.3	9606
		High range	15	0	8941.9	9763
	15MHz	Low range	25	0	13381.1	14544
		Mid range	25	0	13352.9	14416
		High range	25	0	13327.7	14188
	20MHz	Low range	50	0	17830.0	19159
		Mid range	50	0	17821.7	19023
		High range	50	0	17809.8	19208

EUT Mode	Channel Bandwidth	Channel	RB Configure		99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
			RB Size	RB Offset		
LTE Band 66	1.4MHz	Low range	6	0	1113	1240
		Mid range	6	0	1108	1240
		High range	6	0	1108	1240
	3MHz	Low range	15	0	2686	2850
		Mid range	15	0	2696	2840
		High range	15	0	2696	2850
	5MHz	Low range	25	0	4476	4690
		Mid range	25	0	4476	4700
		High range	25	0	4476	4730
	10MHz	Low range	50	0	8918	9233
		Mid range	50	0	8918	9233
		High range	50	0	8918	9267
	15MHz	Low range	75	0	13378	13800
		Mid range	75	0	13378	13850
		High range	75	0	13378	13800
20MHz	Low range	100	0	17837	18333	
	Mid range	100	0	17837	18267	
	High range	100	0	17837	18333	

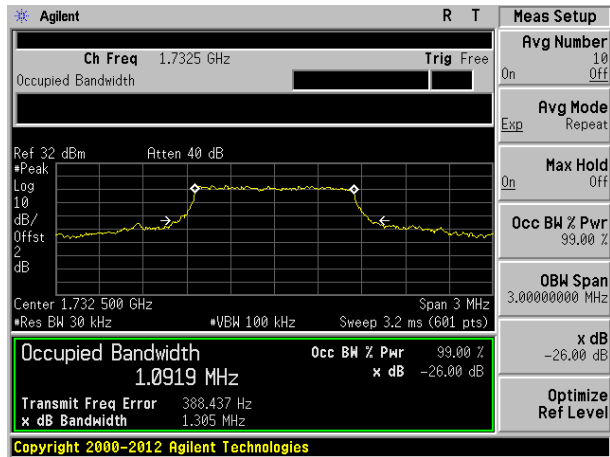
Test plot as follows:

QPSK mode:

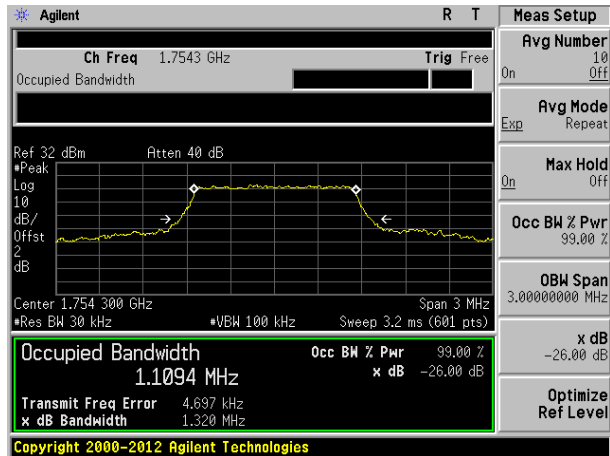
Test band: LTE Band 4	Channel Bandwidth: 1.4MHz
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Lowest channel

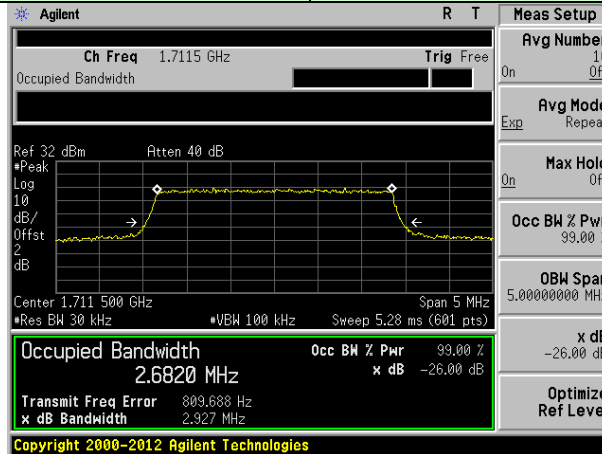


Middle channel

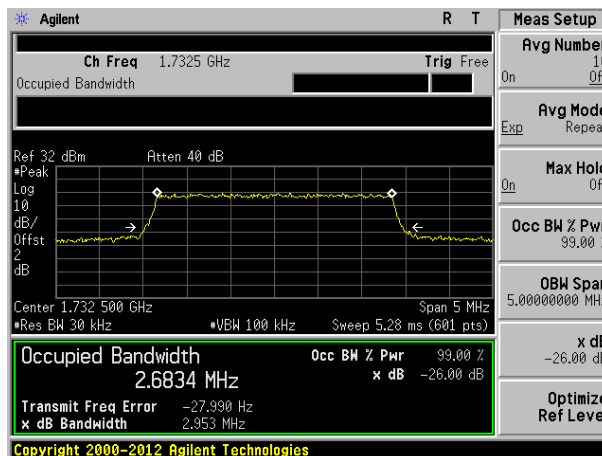


Highest channel

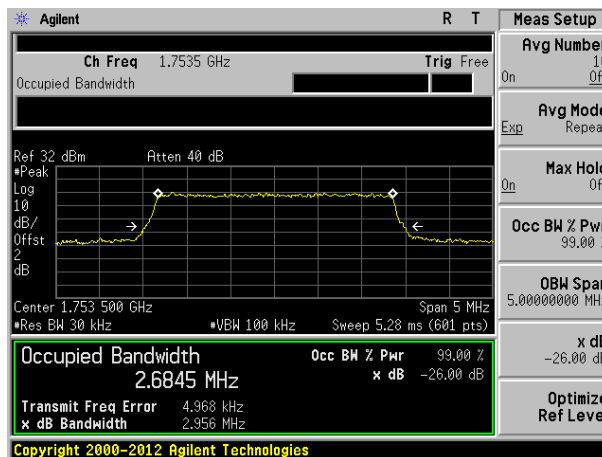
Test band: LTE Band 4      Channel Bandwidth: 3MHz



Lowest channel

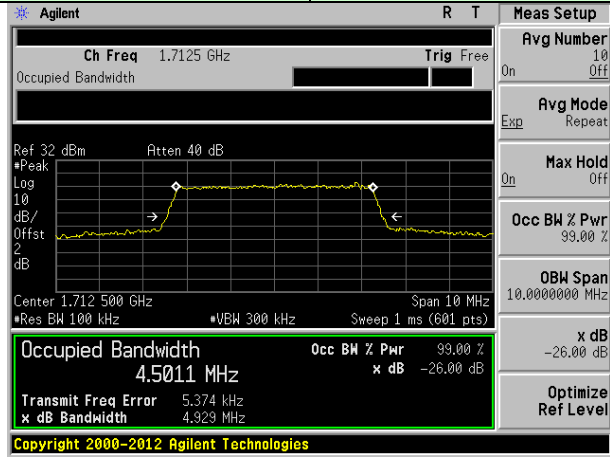


Middle channel

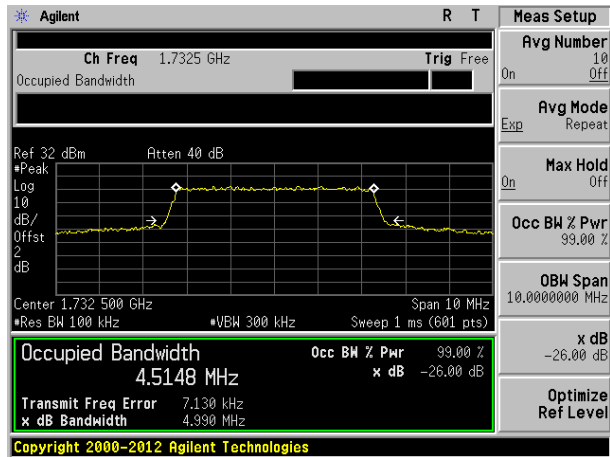


Highest channel

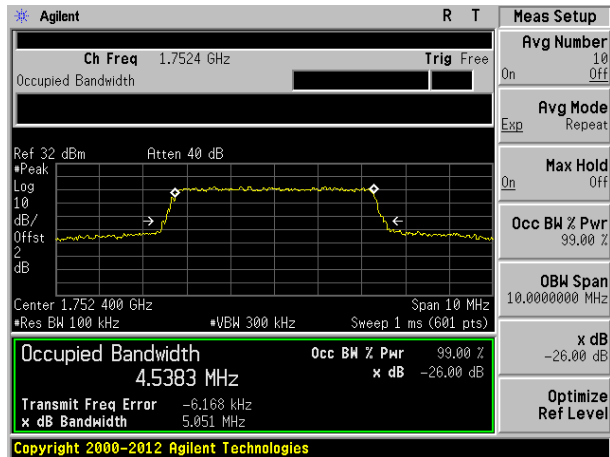
Test band: LTE Band 4 Channel Bandwidth: 5MHz



Lowest channel



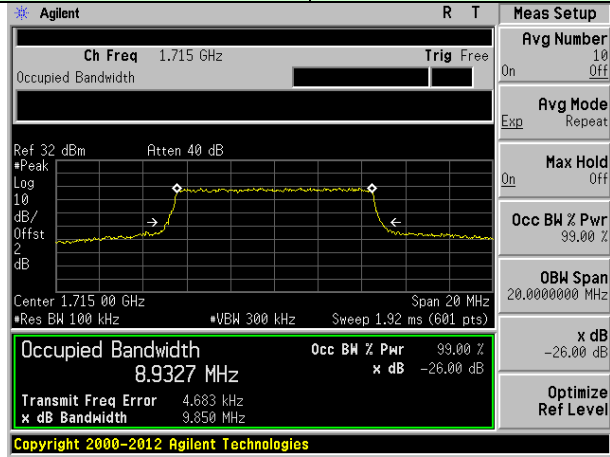
Middle channel



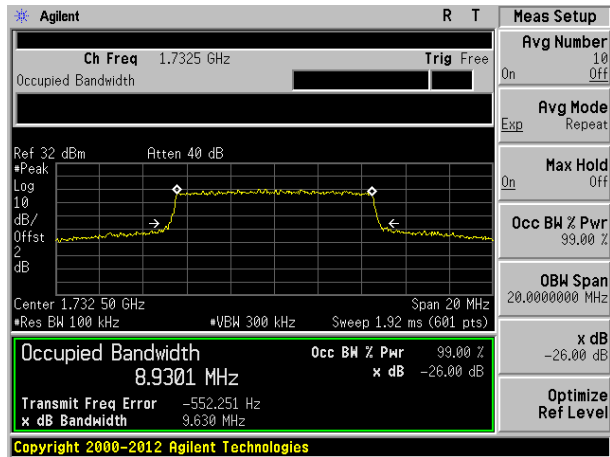
Highest channel



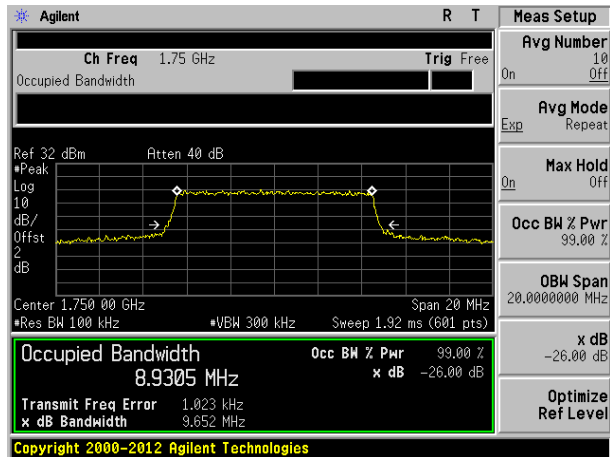
Test band: LTE Band 4      Channel Bandwidth: 10MHz



Lowest channel

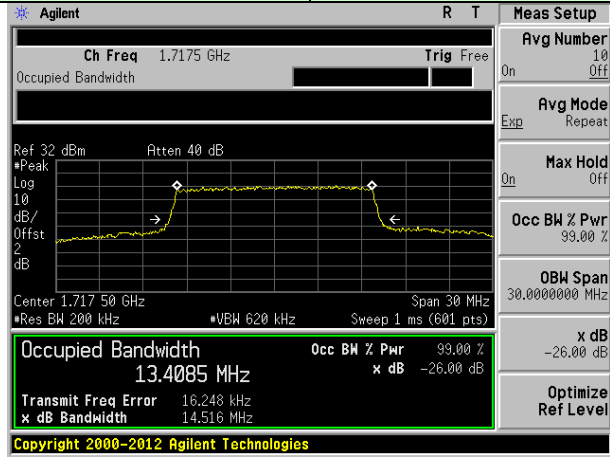


Middle channel

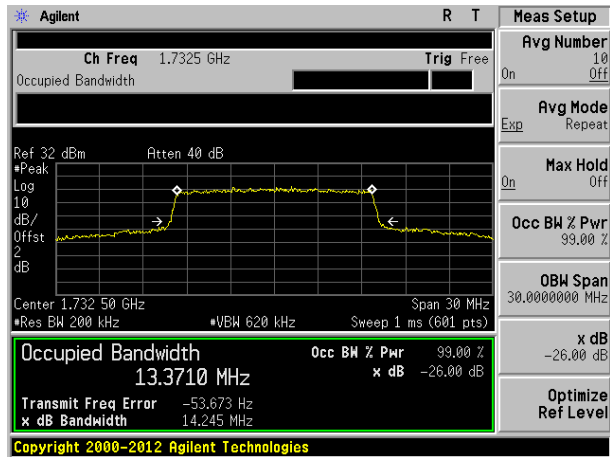


Highest channel

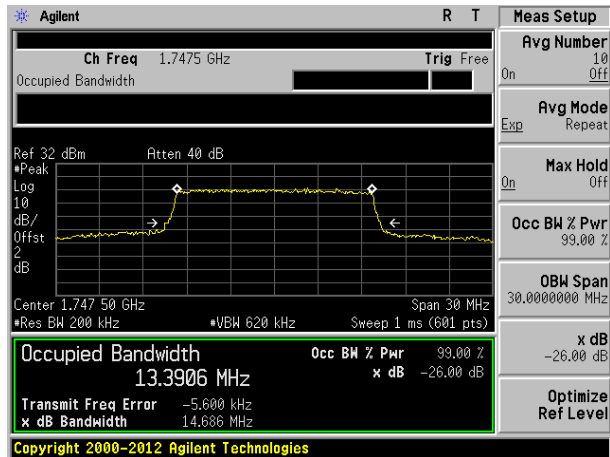
Test band: LTE Band 4      Channel Bandwidth: 15MHz



Lowest channel

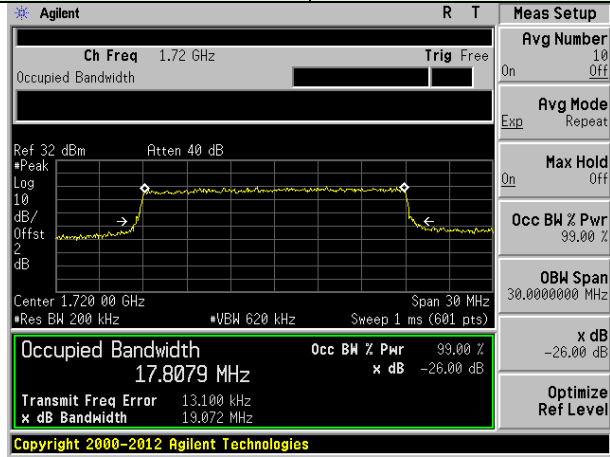


Middle channel

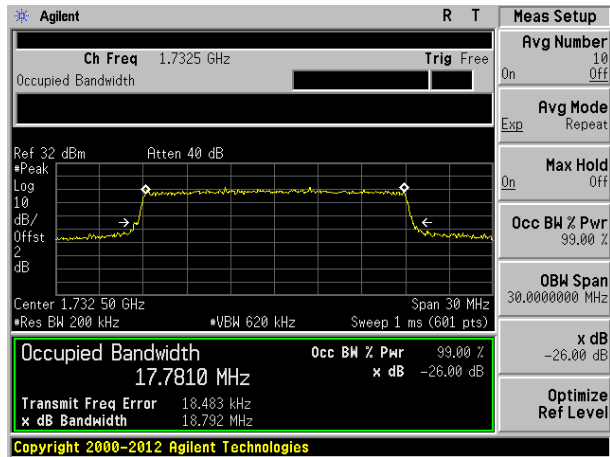


Highest channel

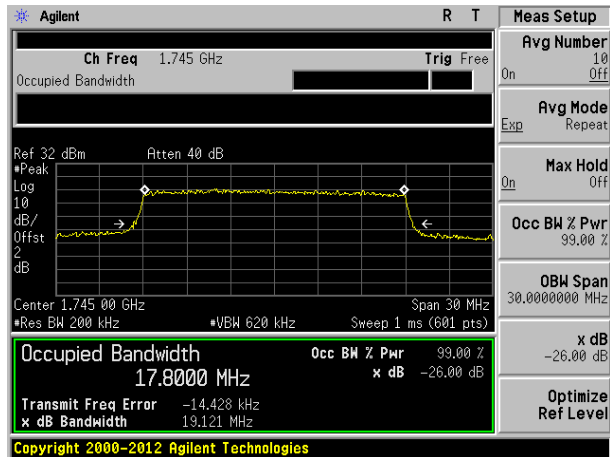
Test band: LTE Band 4      Channel Bandwidth: 20MHz



Lowest channel

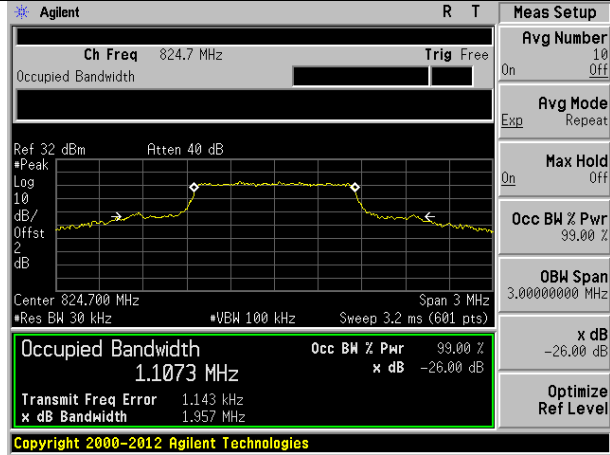


Middle channel

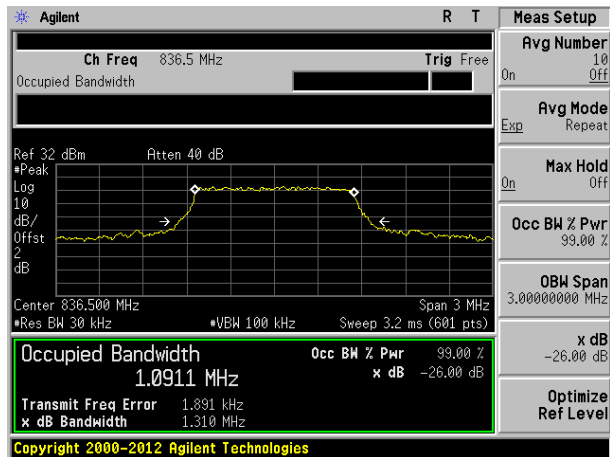


Highest channel

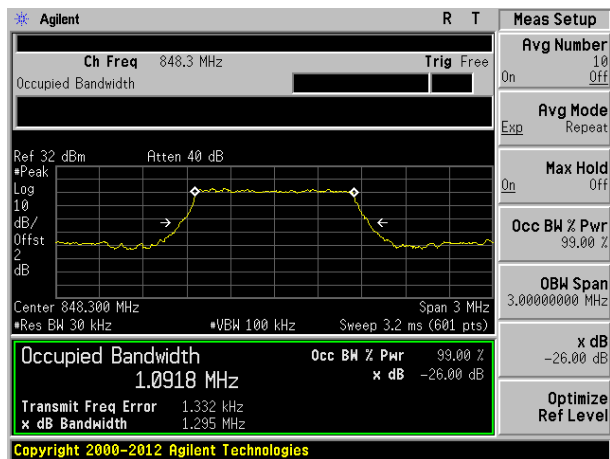
Test band: LTE Band 5 Channel Bandwidth: 1.4MHz



Lowest channel

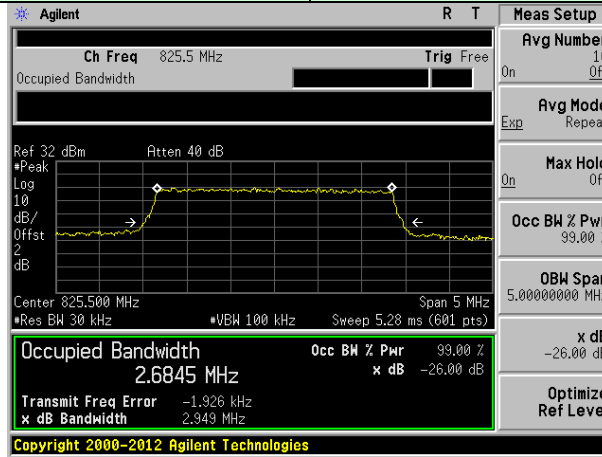


Middle channel

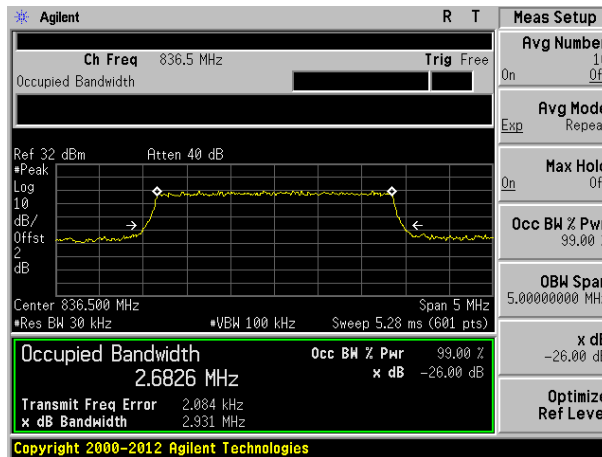


Highest channel

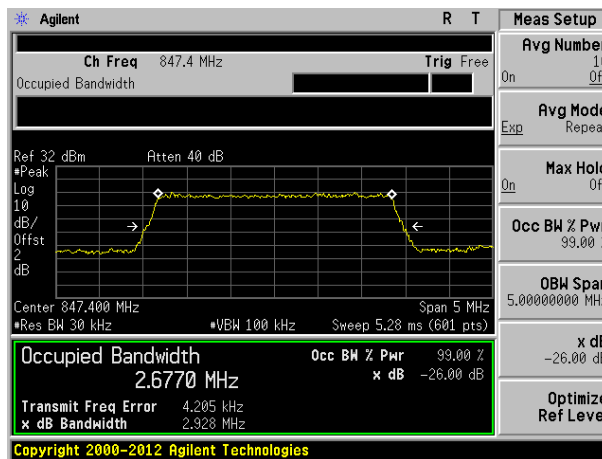
Test band: LTE Band 5 Channel Bandwidth: 3MHz



Lowest channel

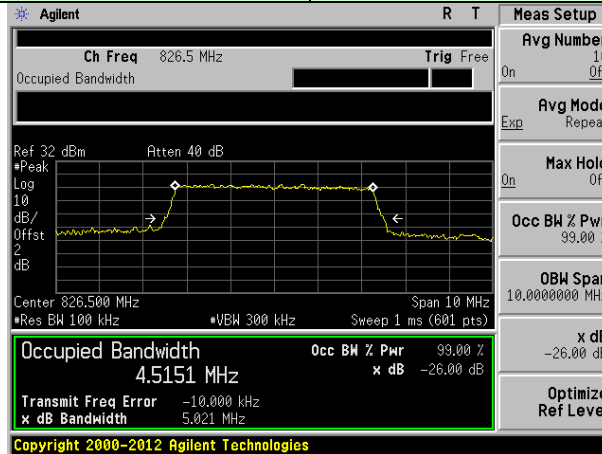


Middle channel

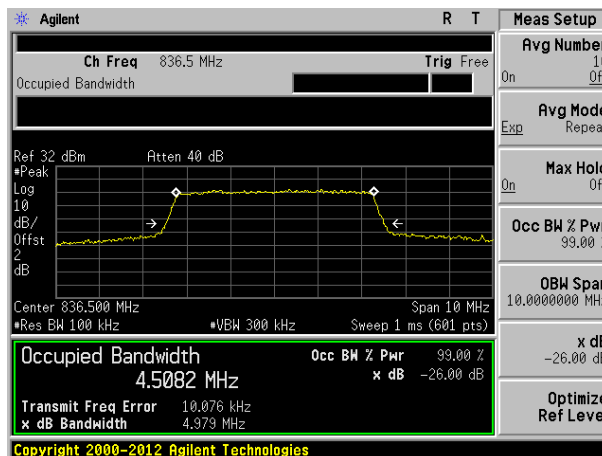


Highest channel

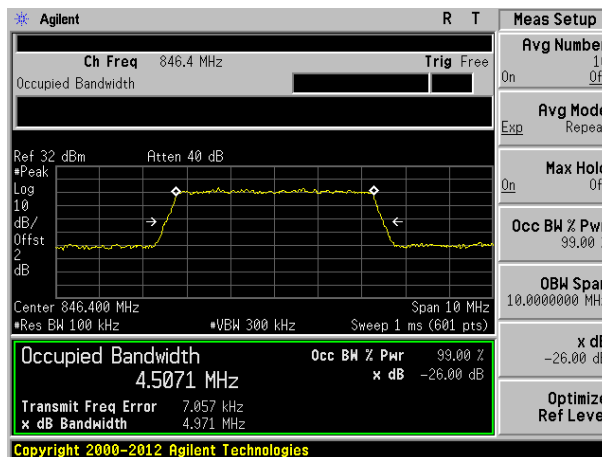
Test band: LTE Band 5 Channel Bandwidth: 5MHz



Lowest channel

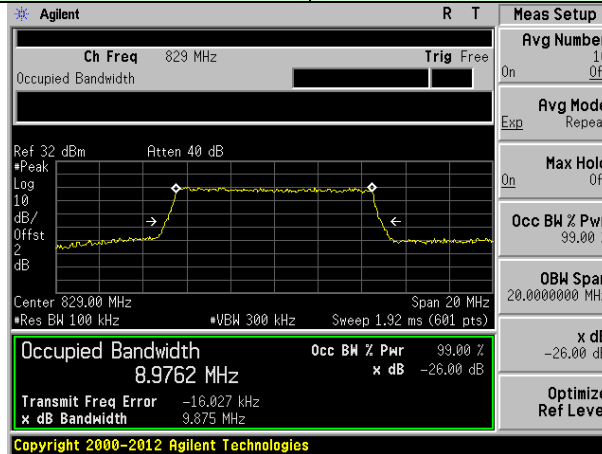


Middle channel

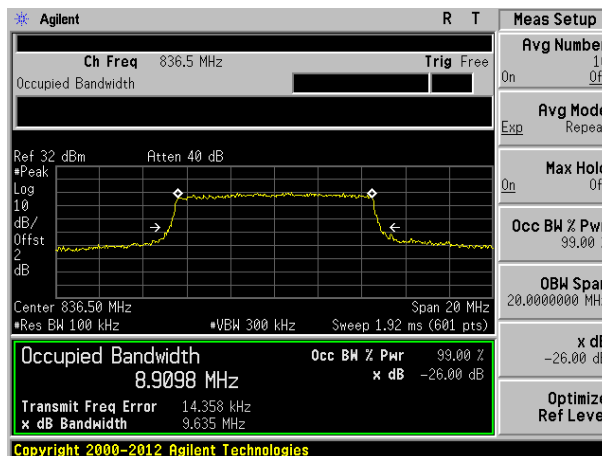


Highest channel

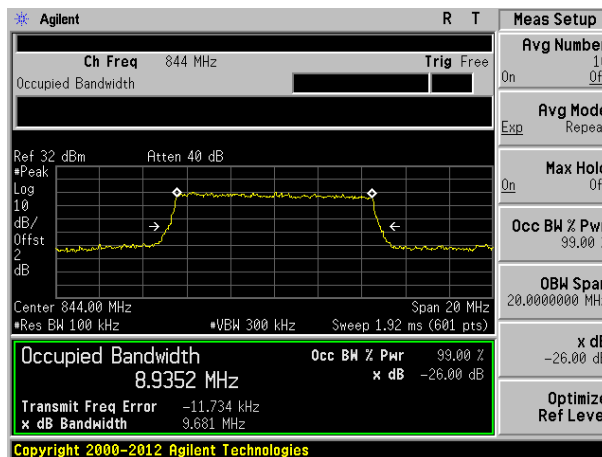
Test band: LTE Band 5 Channel Bandwidth: 10MHz



Lowest channel

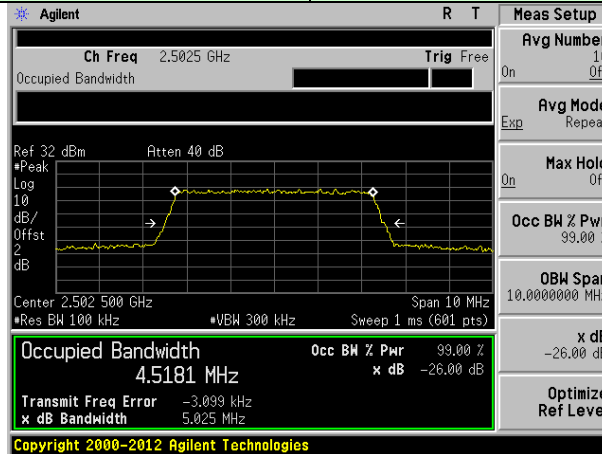


Middle channel

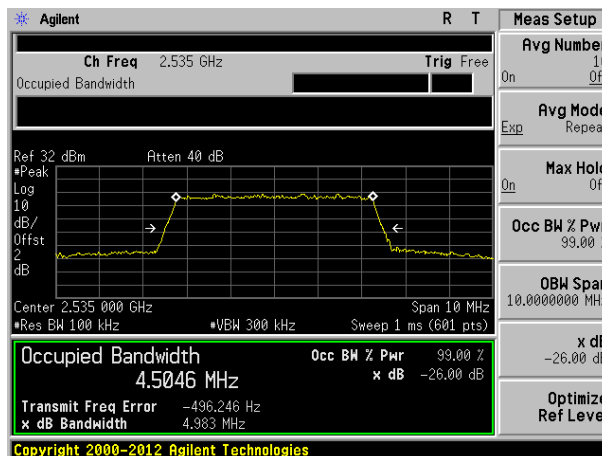


Highest channel

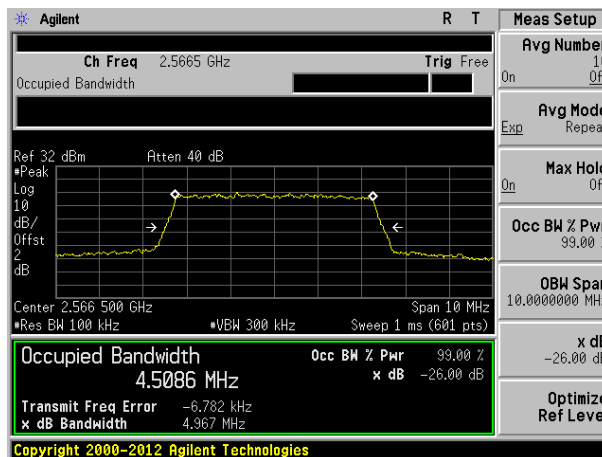
Test band: LTE Band 7      Channel Bandwidth: 5MHz



Lowest channel



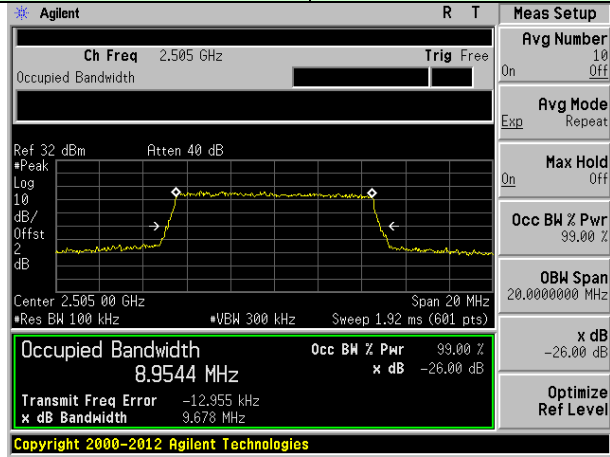
Middle channel



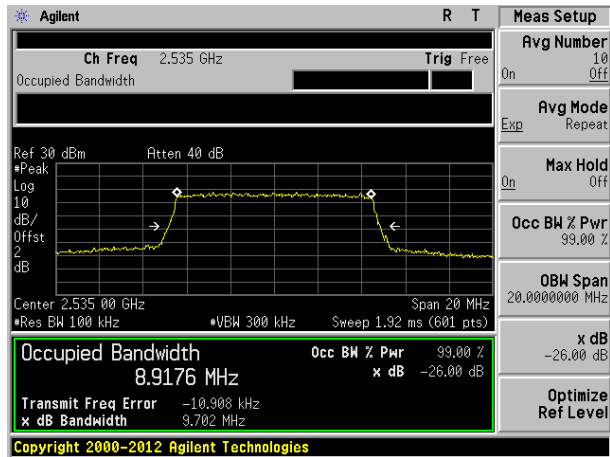
Highest channel



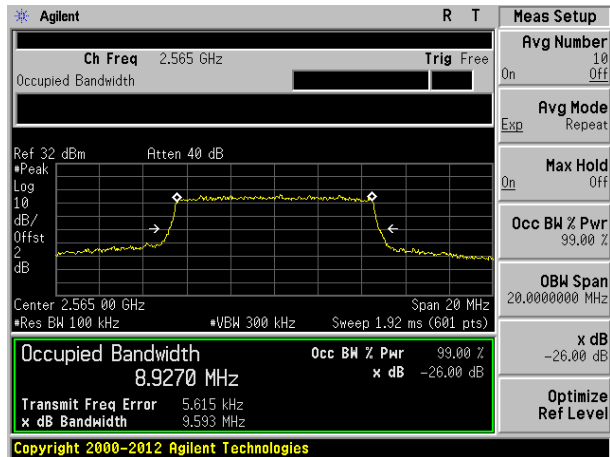
Test band: LTE Band 7      Channel Bandwidth: 10MHz



Lowest channel

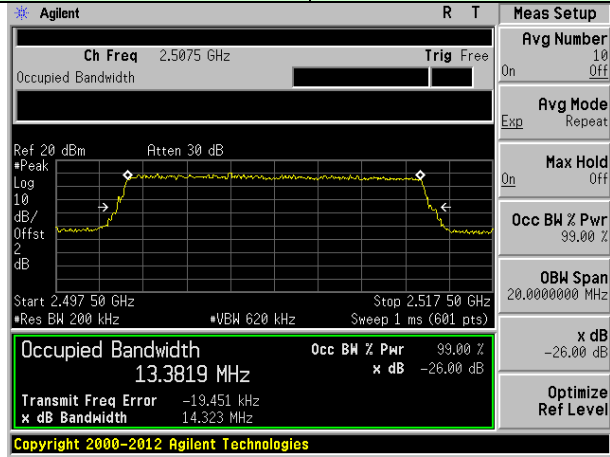


Middle channel

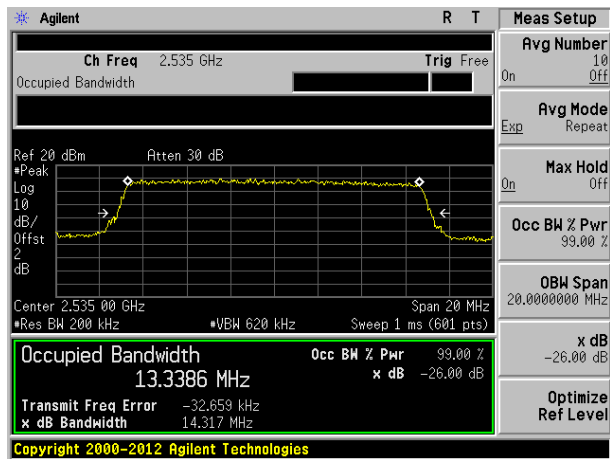


Highest channel

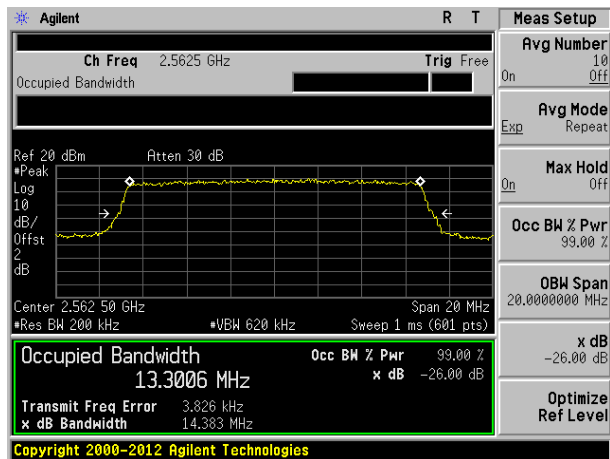
Test band: LTE Band 7      Channel Bandwidth: 15MHz



Lowest channel

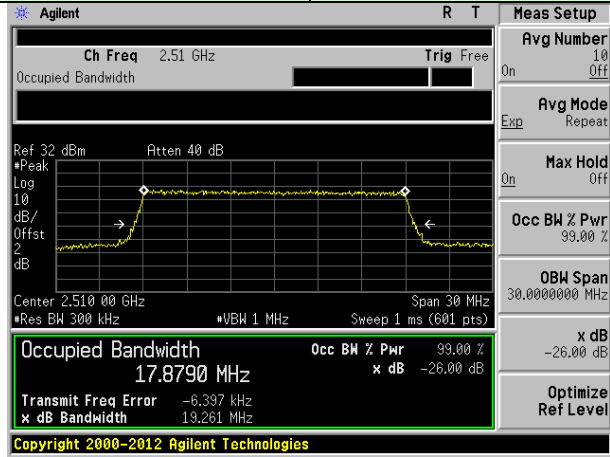


Middle channel

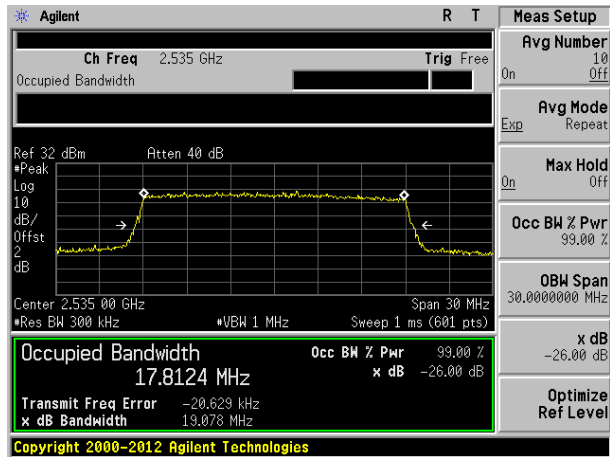


Highest channel

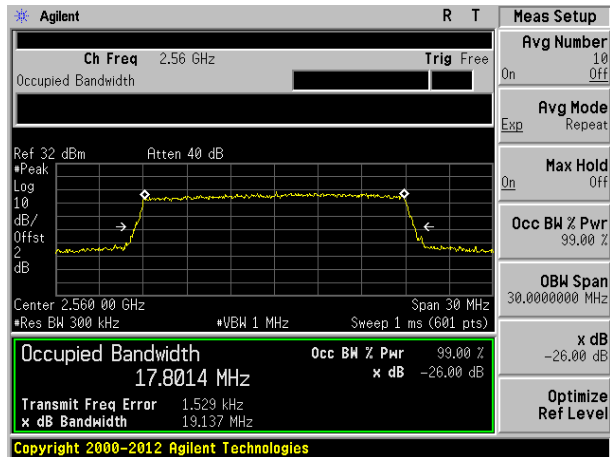
Test band: LTE Band 7      Channel Bandwidth: 20MHz



Lowest channel

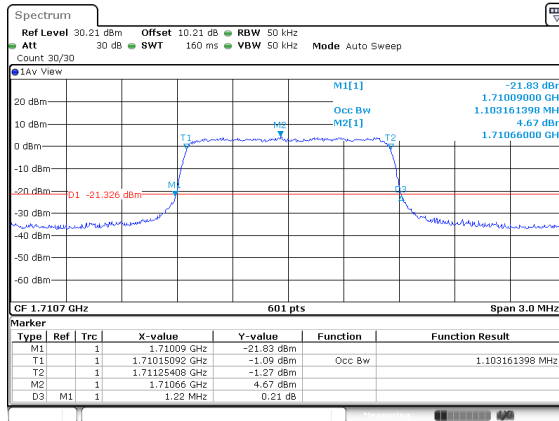


Middle channel

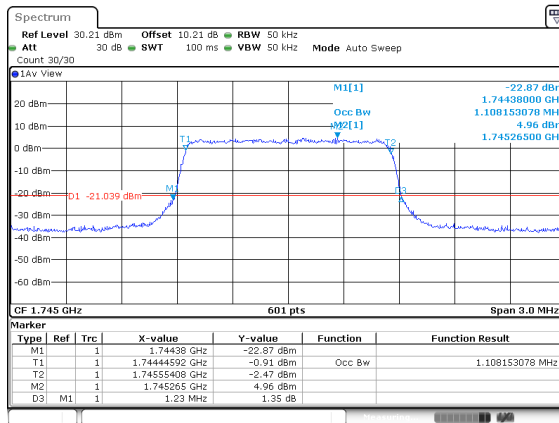


Highest channel

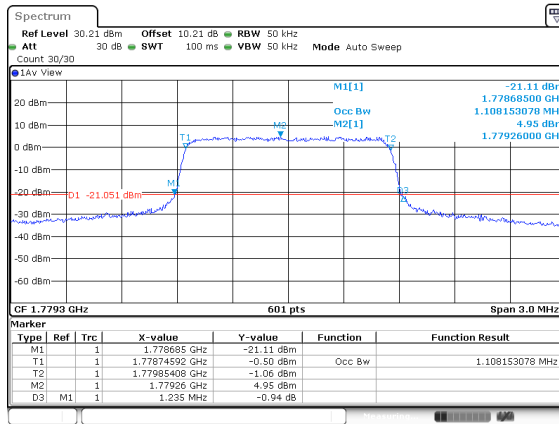
## Band66\_1.4MHz\_QPSK\_131979\_6RB#0



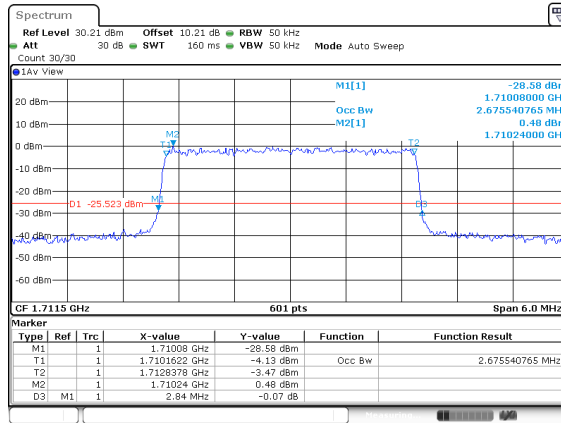
## Band66\_1.4MHz\_QPSK\_132322\_6RB#0



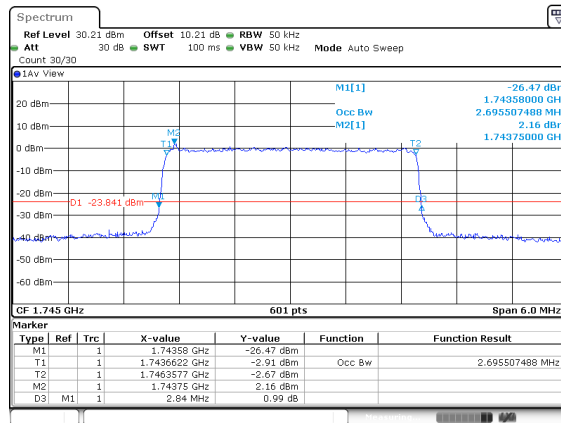
## Band66\_1.4MHz\_QPSK\_132665\_6RB#0



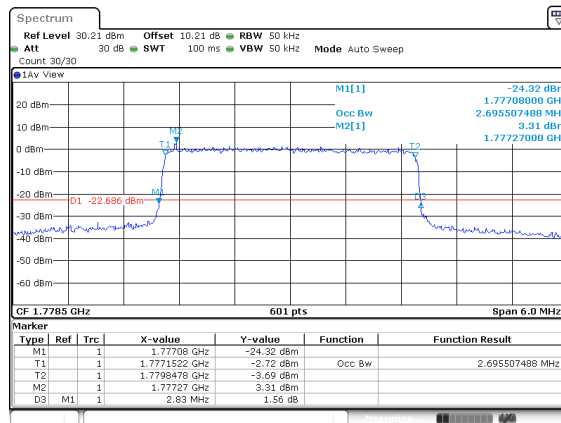
## Band66\_3MHz\_QPSK\_131987\_15RB#0



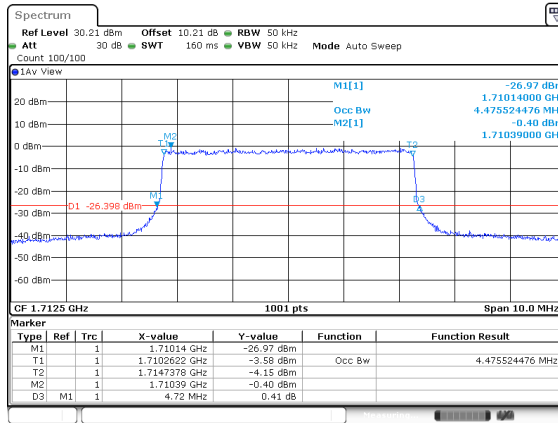
## Band66\_3MHz\_QPSK\_132322\_15RB#0



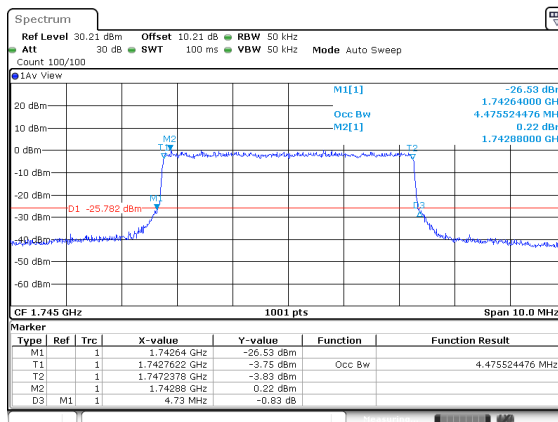
## Band66\_3MHz\_QPSK\_132657\_15RB#0



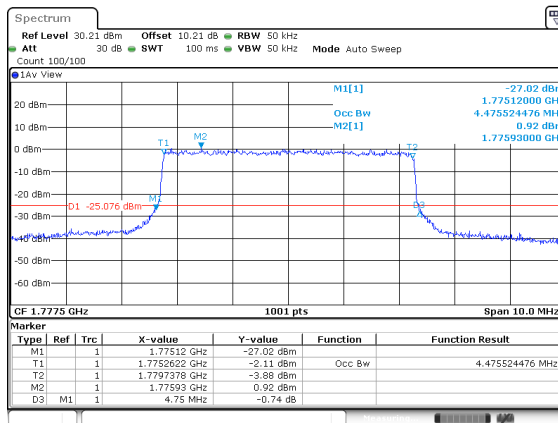
## Band66\_5MHz\_QPSK\_131997\_25RB#0



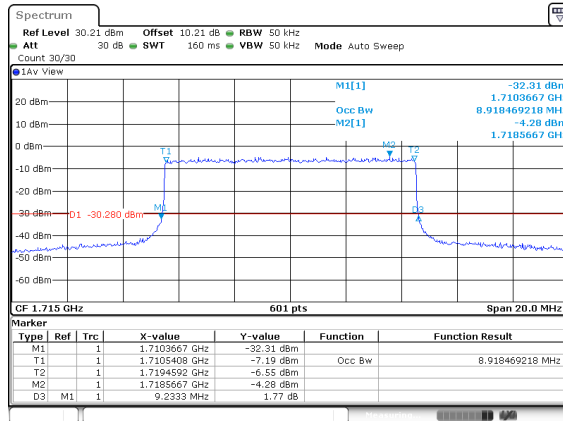
## Band66\_5MHz\_QPSK\_132322\_25RB#0



## Band66\_5MHz\_QPSK\_132647\_25RB#0

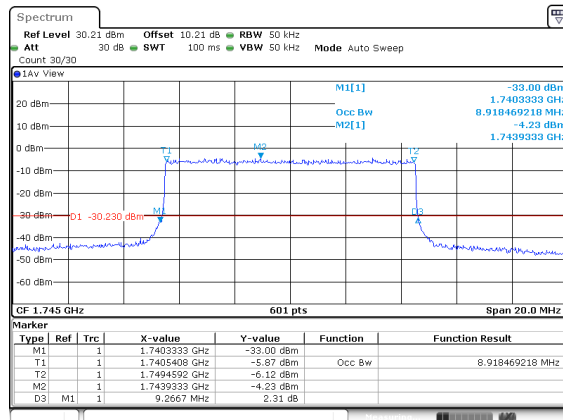


## Band66\_10MHz\_QPSK\_132022\_50RB#0



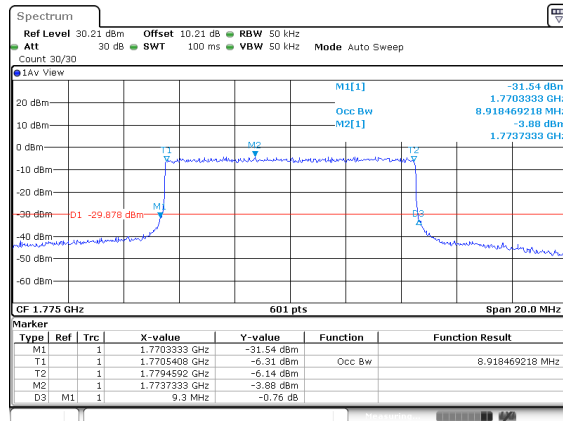
Date: 22 May 2019 16:00:14

## Band66\_10MHz\_QPSK\_132322\_50RB#0



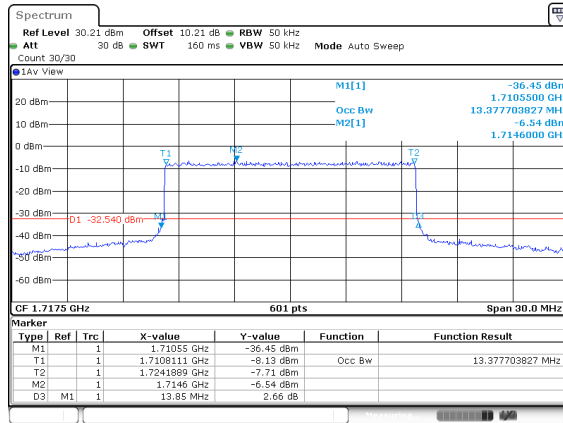
Date: 22 May 2019 16:00:14

## Band66\_10MHz\_QPSK\_132622\_50RB#0



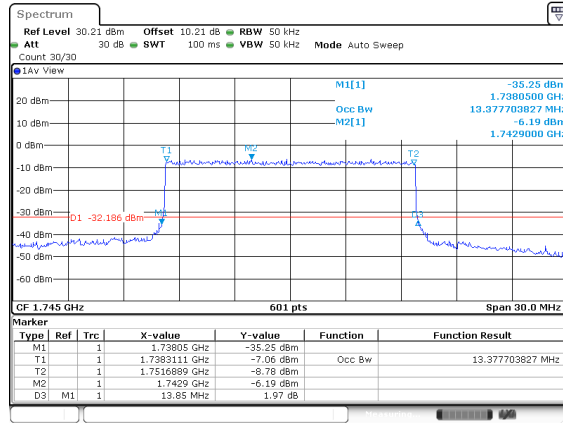
Date: 22 May 2019 16:01:12

## Band66\_15MHz\_QPSK\_132047\_75RB#0



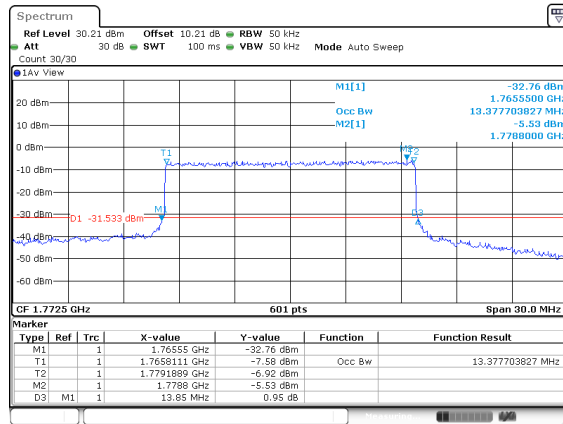
Date: 22 MAY 2019 16:07:47

## Band66\_15MHz\_QPSK\_132322\_75RB#0



Date: 22 MAY 2019 16:07:16

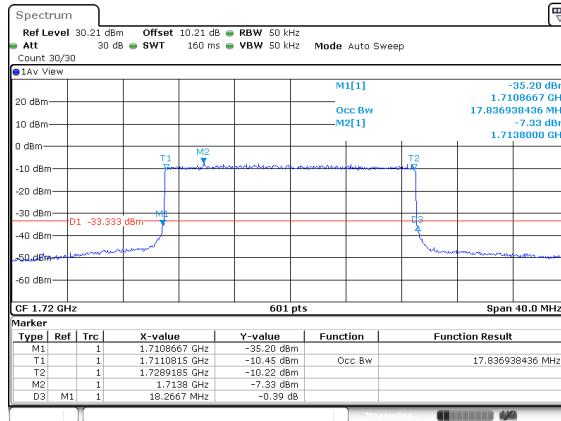
## Band66\_15MHz\_QPSK\_132597\_75RB#0



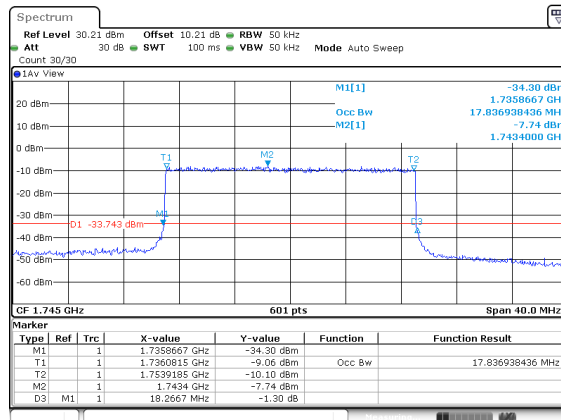
Date: 22 MAY 2019 16:07:45



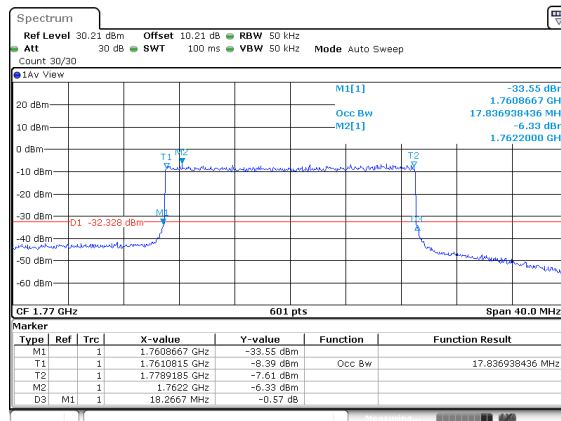
## Band66\_20MHz\_QPSK\_132072\_100RB#0



## Band66\_20MHz\_QPSK\_132322\_100RB#0

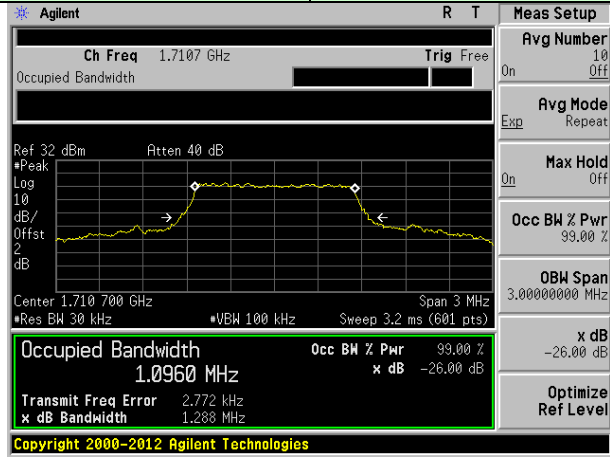


## Band66\_20MHz\_QPSK\_132572\_100RB#0

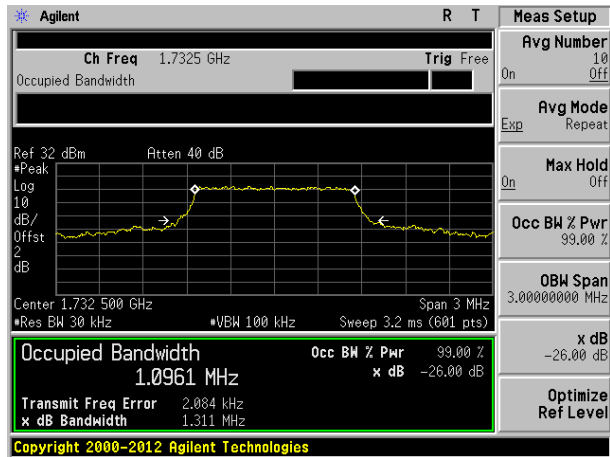


16QAM mode:

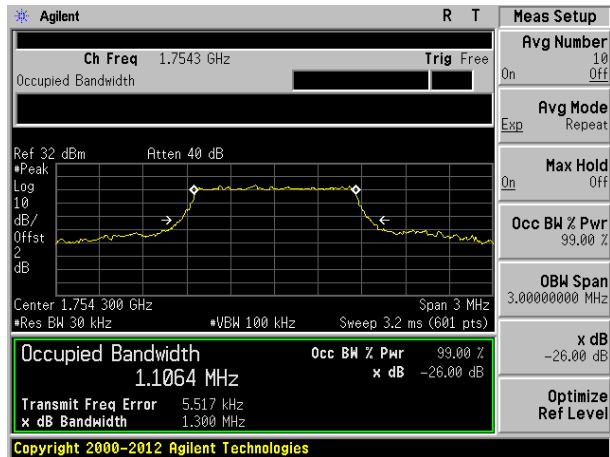
Test band: LTE Band 4	Channel Bandwidth: 1.4MHz
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Lowest channel

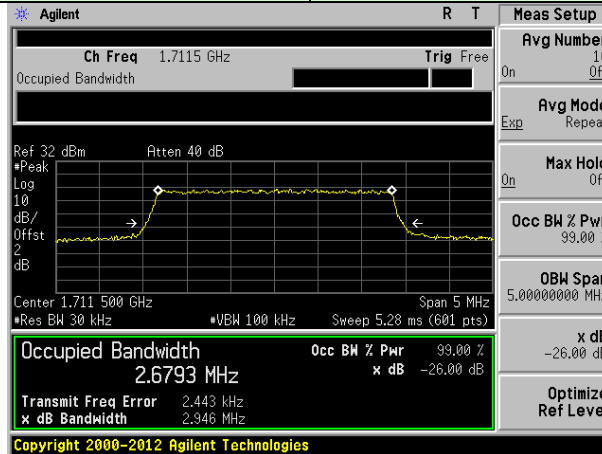


Middle channel

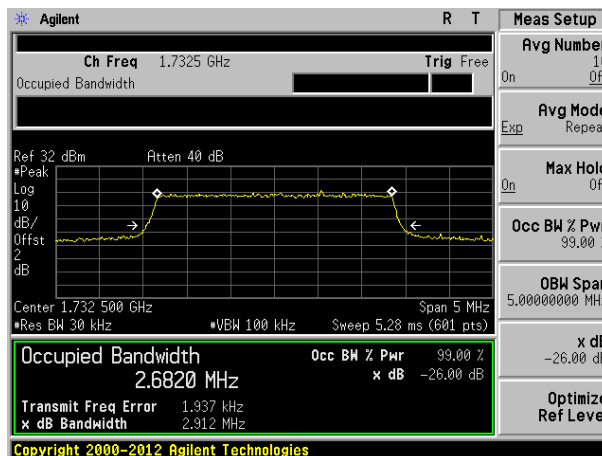


Highest channel

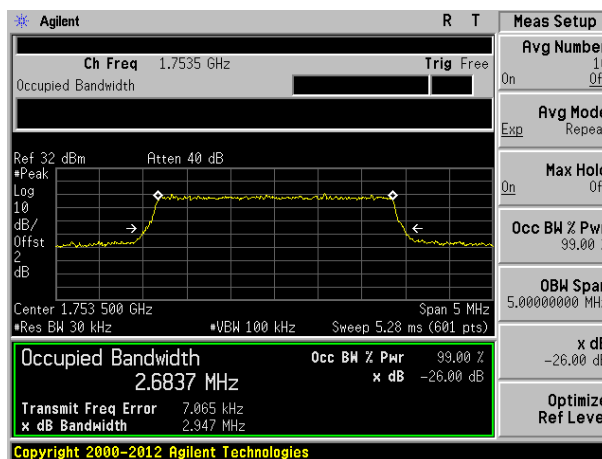
Test band: LTE Band 4      Channel Bandwidth: 3MHz



Lowest channel

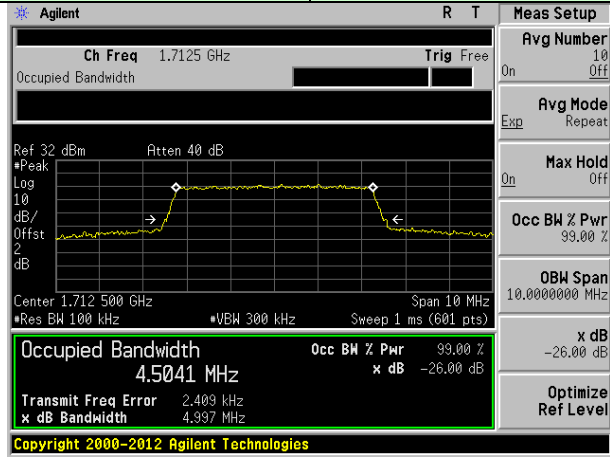


Middle channel

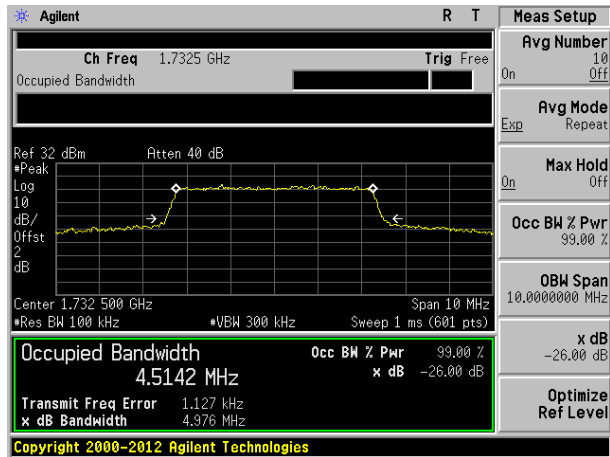


Highest channel

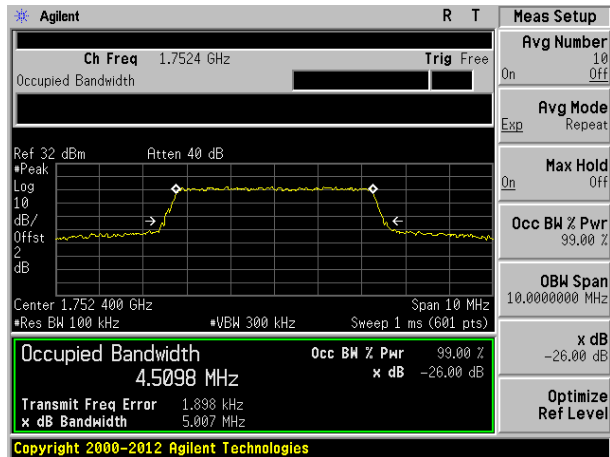
Test band: LTE Band 4      Channel Bandwidth: 5MHz



Lowest channel

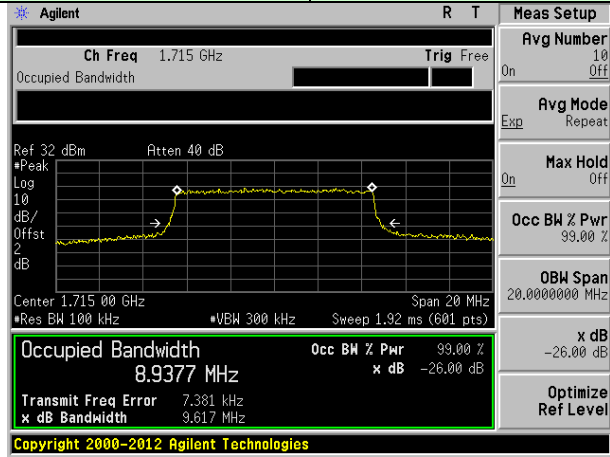


Middle channel

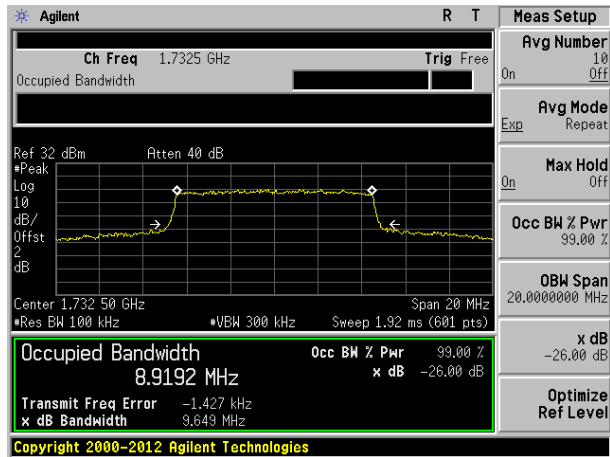


Highest channel

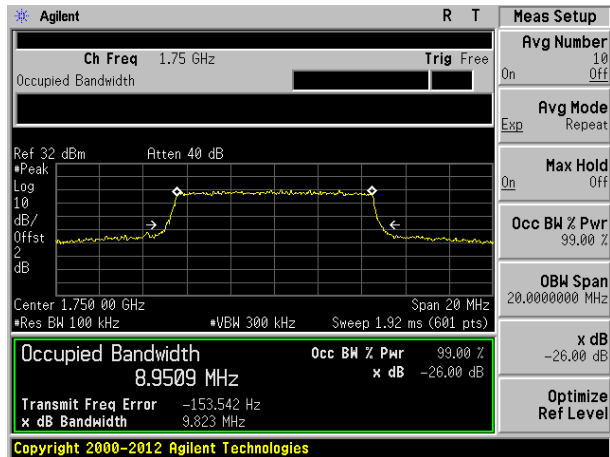
Test band: LTE Band 4      Channel Bandwidth: 10MHz



Lowest channel

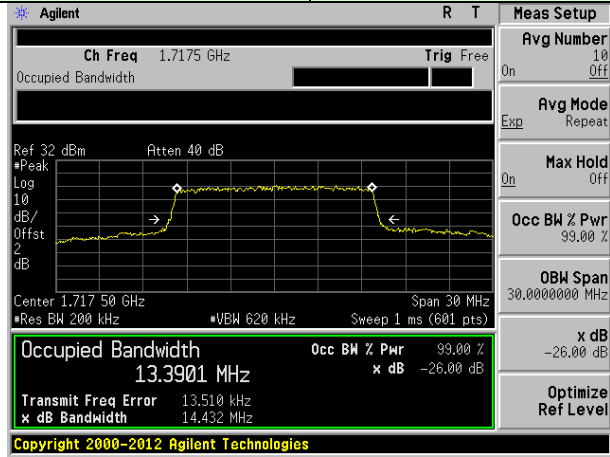


Middle channel

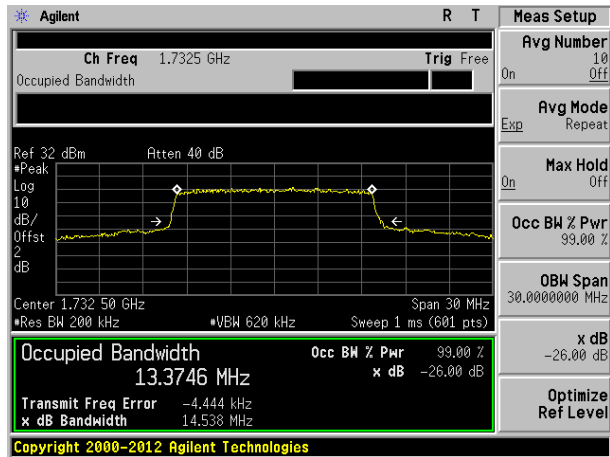


Highest channel

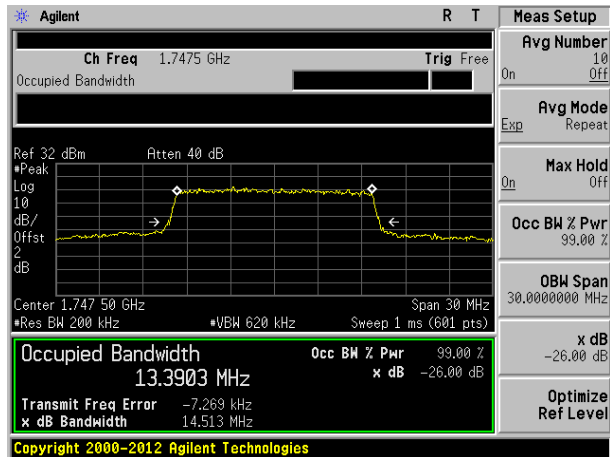
Test band: LTE Band 4      Channel Bandwidth: 15MHz



Lowest channel

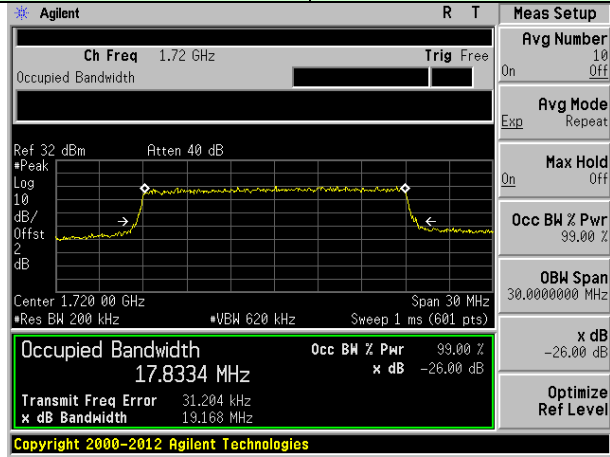


Middle channel

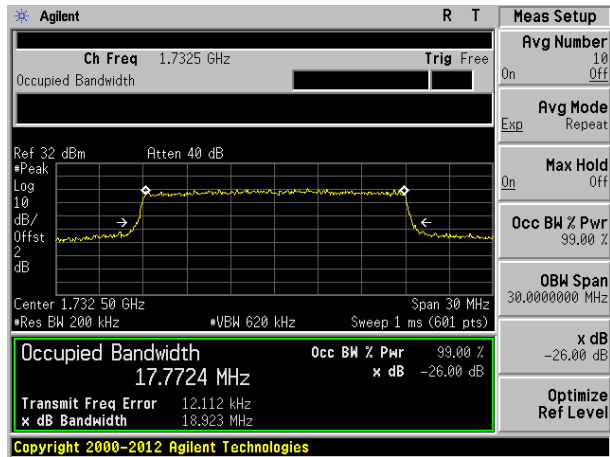


Highest channel

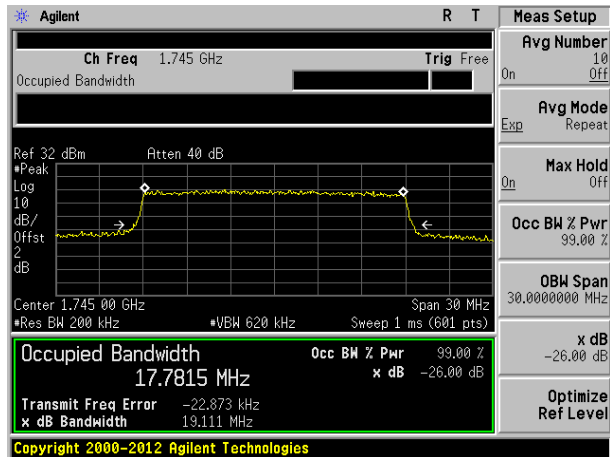
Test band: LTE Band 4 Channel Bandwidth: 20MHz



Lowest channel

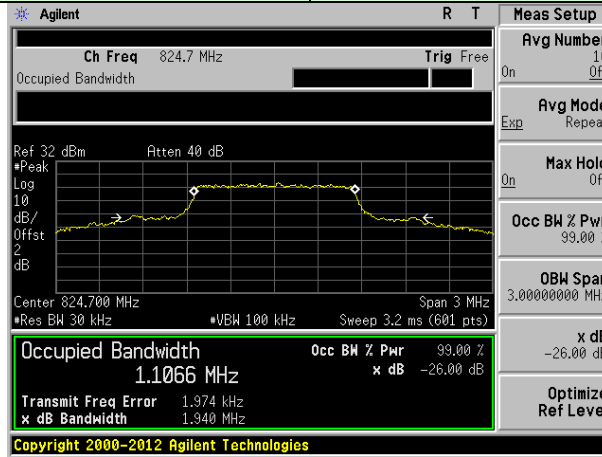


Middle channel

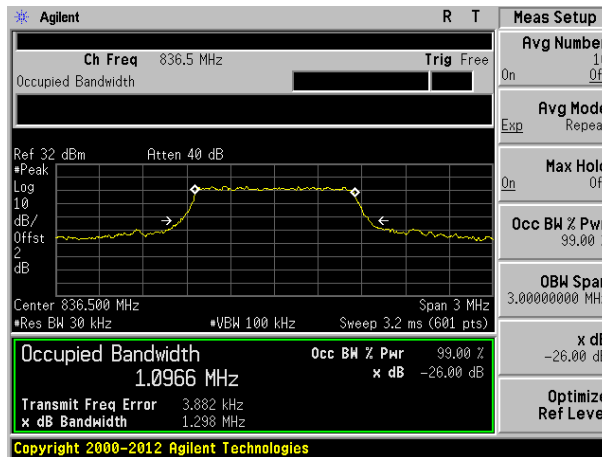


Highest channel

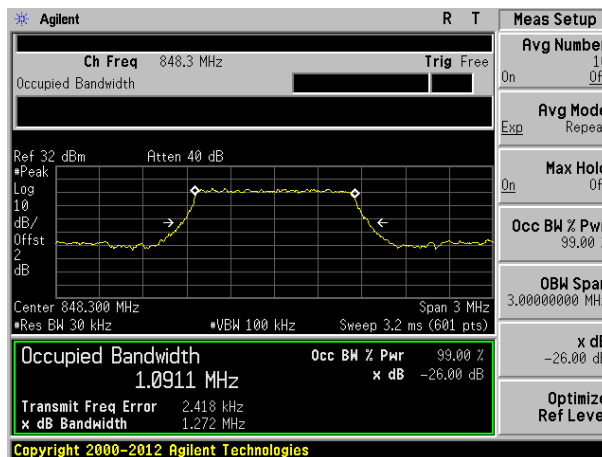
Test band: LTE Band 5 Channel Bandwidth: 1.4MHz



Lowest channel



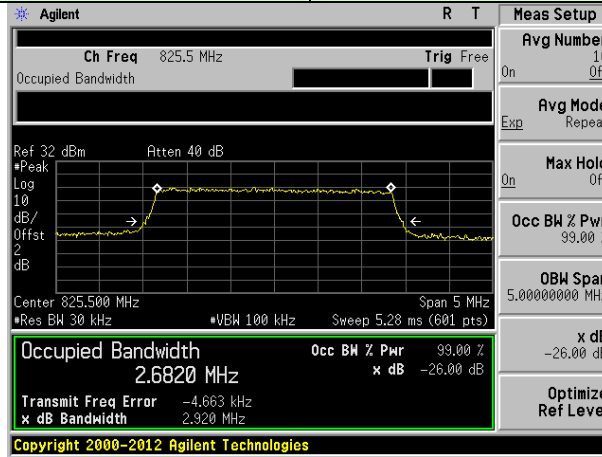
Middle channel



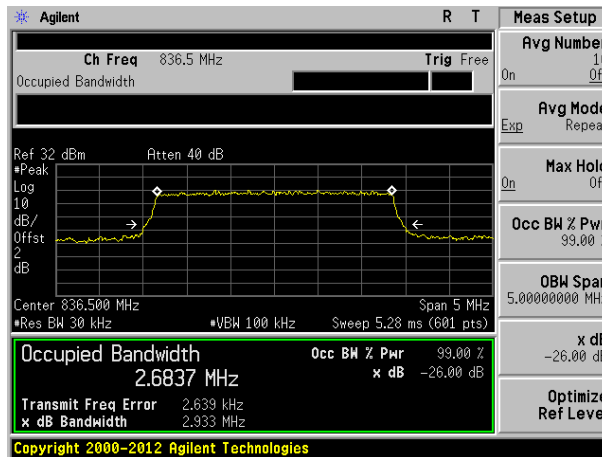
Highest channel



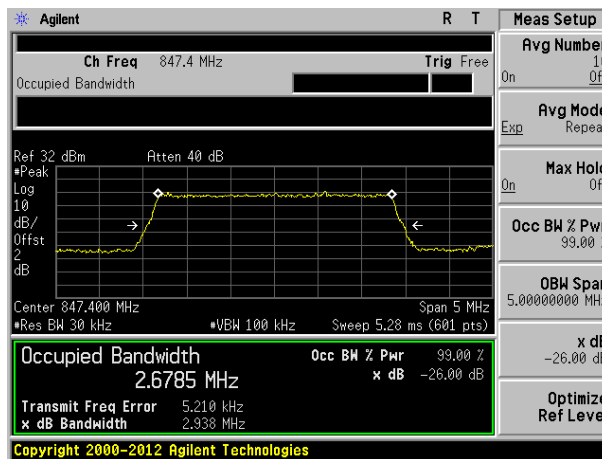
Test band: LTE Band 5 Channel Bandwidth: 3MHz



Lowest channel

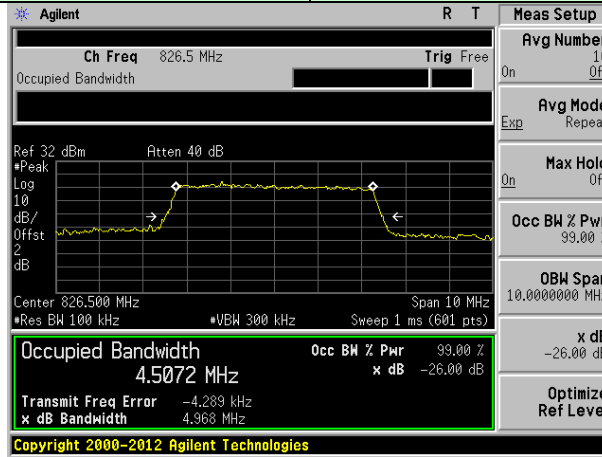


Middle channel

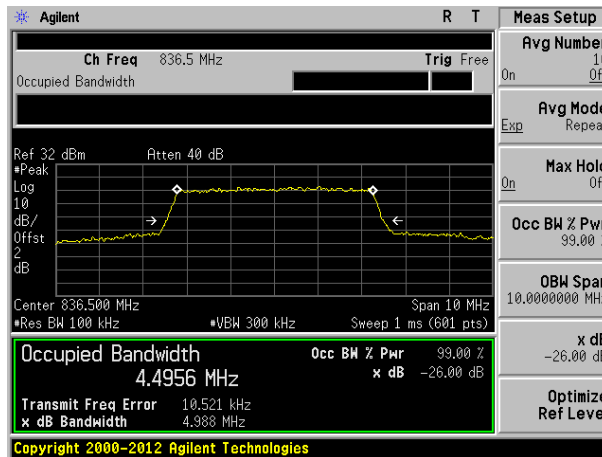


Highest channel

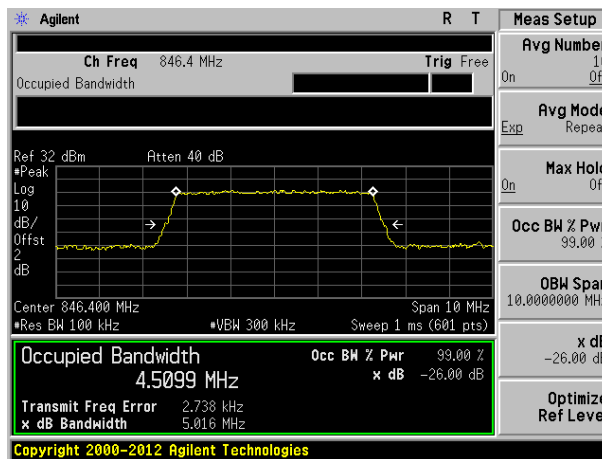
Test band: LTE Band 5 Channel Bandwidth: 5MHz



Lowest channel

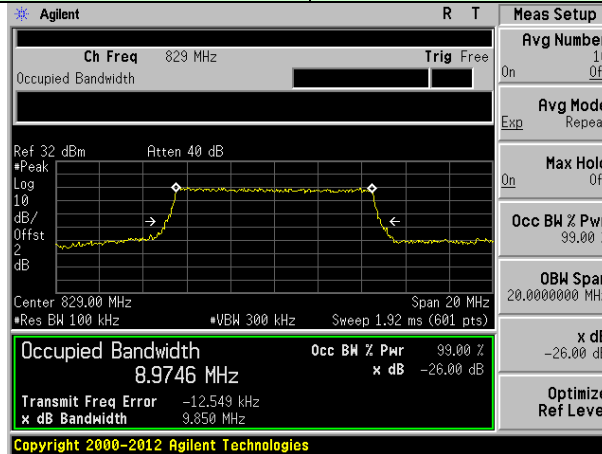


Middle channel

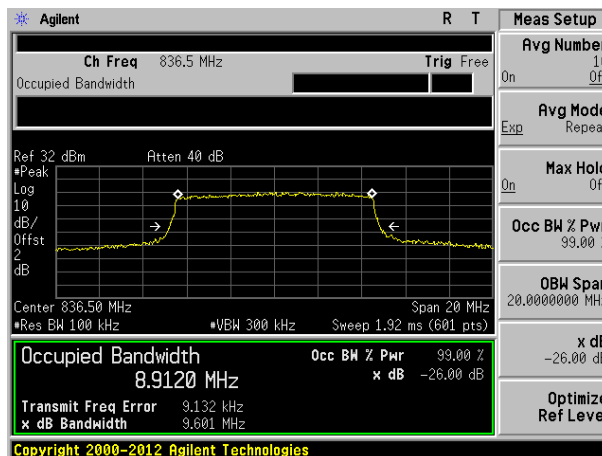


Highest channel

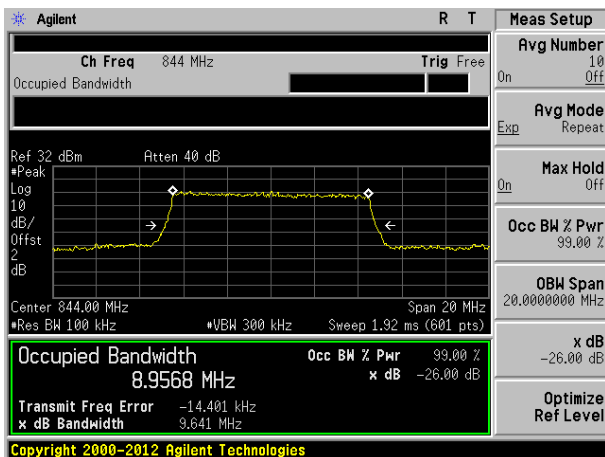
Test band: LTE Band 5 Channel Bandwidth: 10MHz



Lowest channel

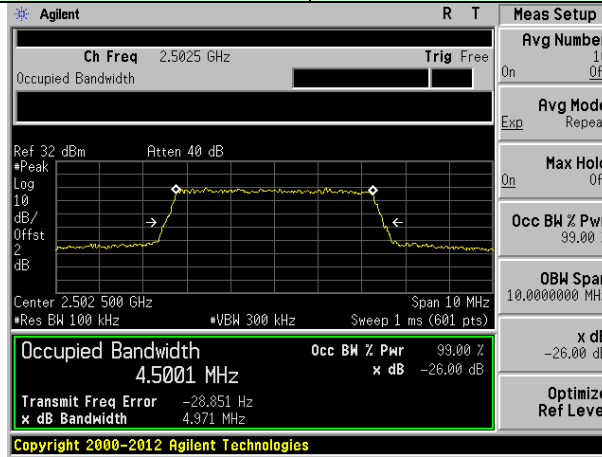


Middle channel

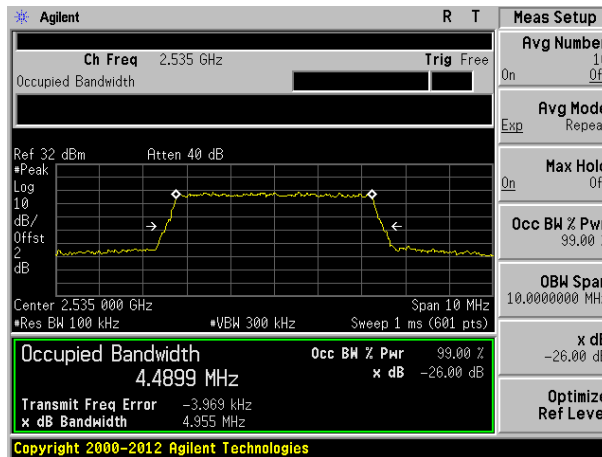


Highest channel

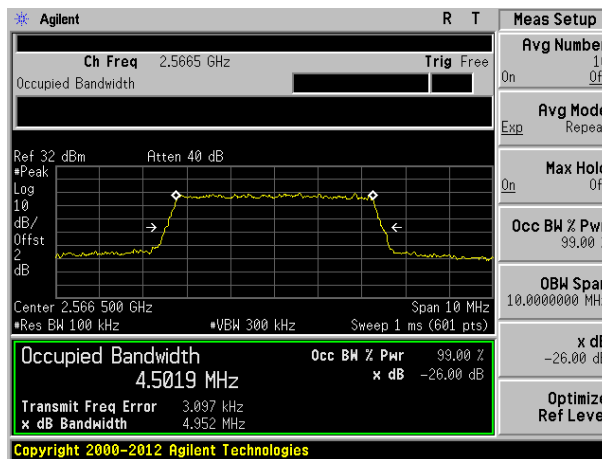
Test band: LTE Band 7      Channel Bandwidth: 5MHz



Lowest channel

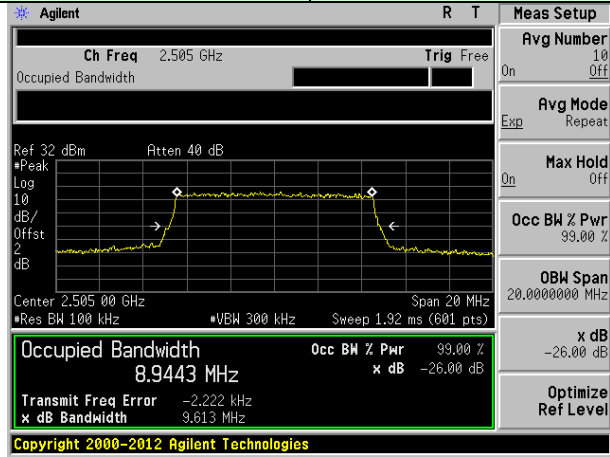


Middle channel

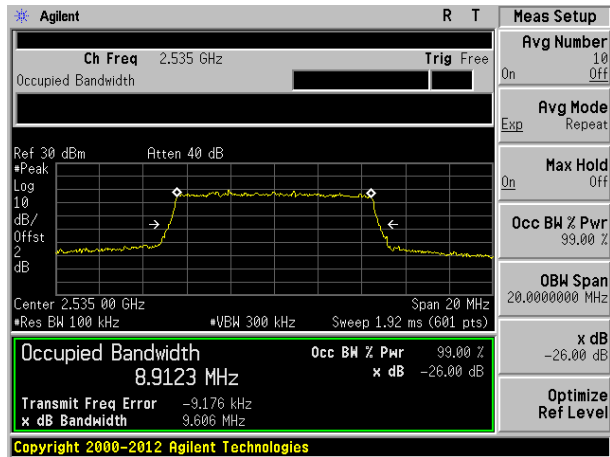


Highest channel

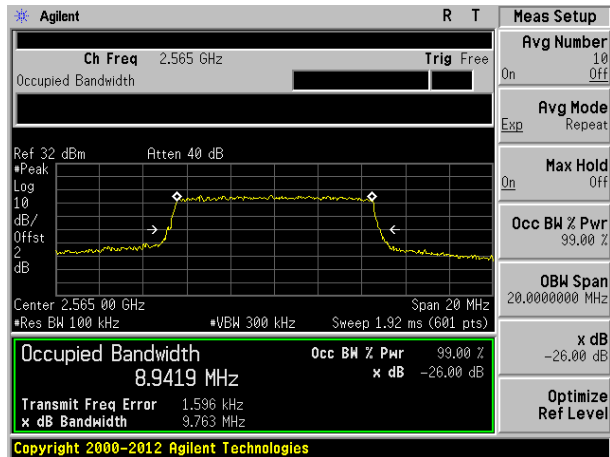
Test band: LTE Band 7      Channel Bandwidth: 10MHz



Lowest channel

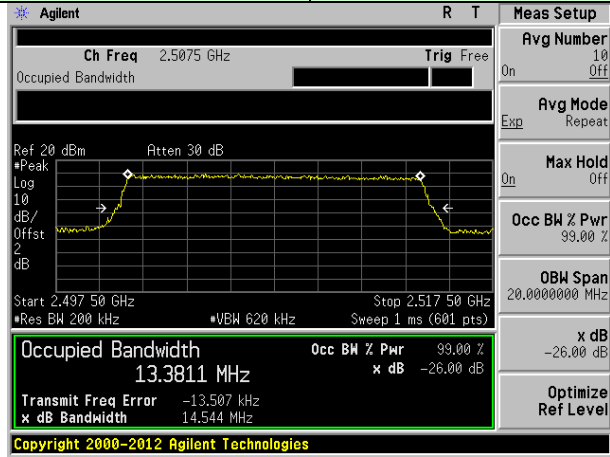


Middle channel

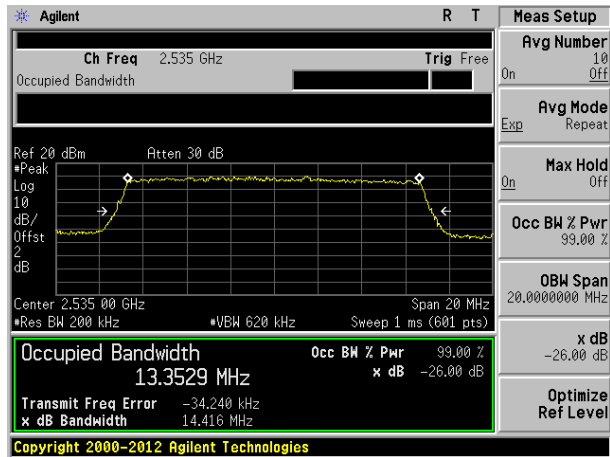


Highest channel

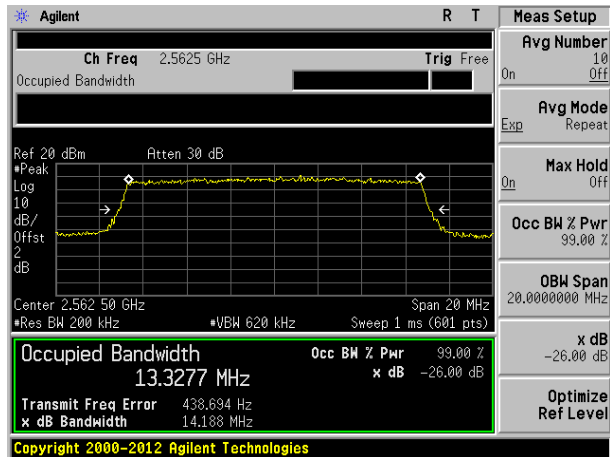
Test band: LTE Band 7      Channel Bandwidth: 15MHz



Lowest channel

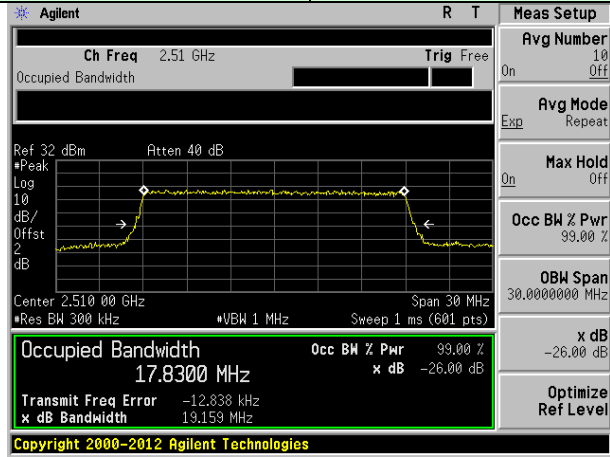


Middle channel

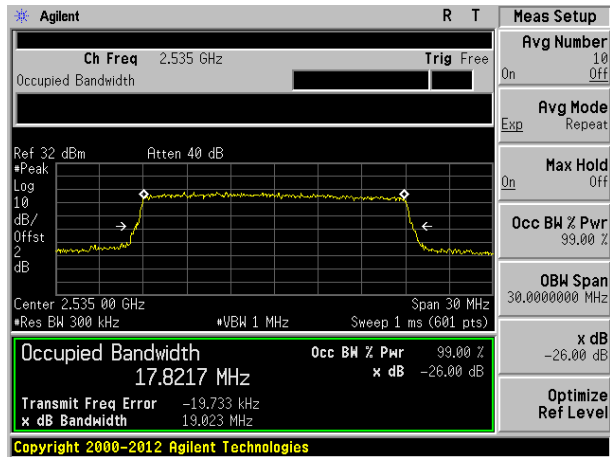


Highest channel

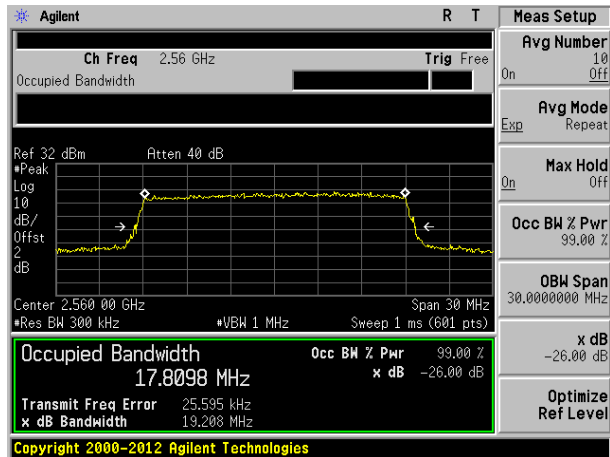
Test band: LTE Band 7      Channel Bandwidth: 20MHz



Lowest channel

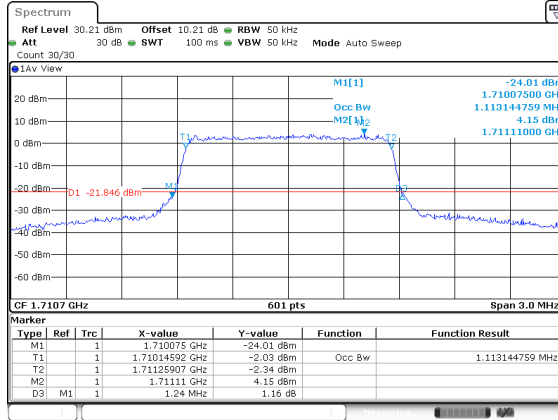


Middle channel

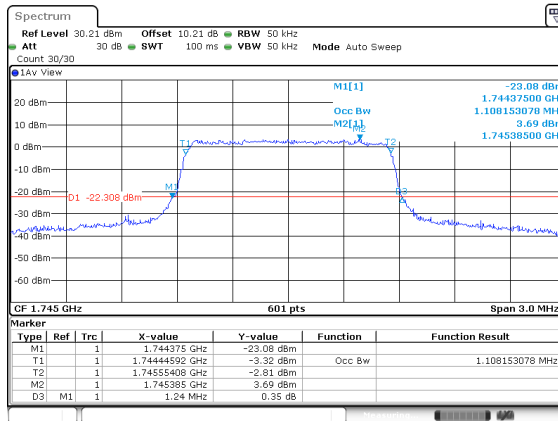


Highest channel

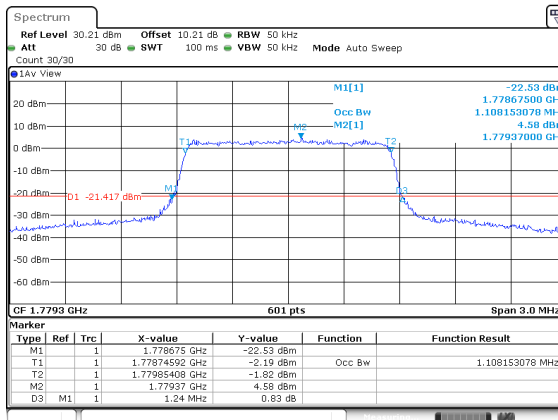
## Band66\_1.4MHz\_16QAM\_131979\_6RB#0



## Band66\_1.4MHz\_16QAM\_132322\_6RB#0

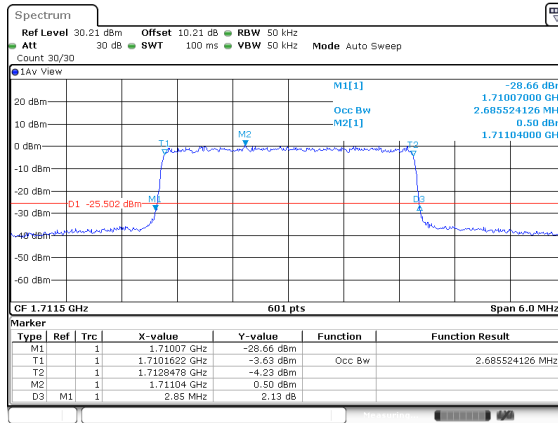


## Band66\_1.4MHz\_16QAM\_132665\_6RB#0

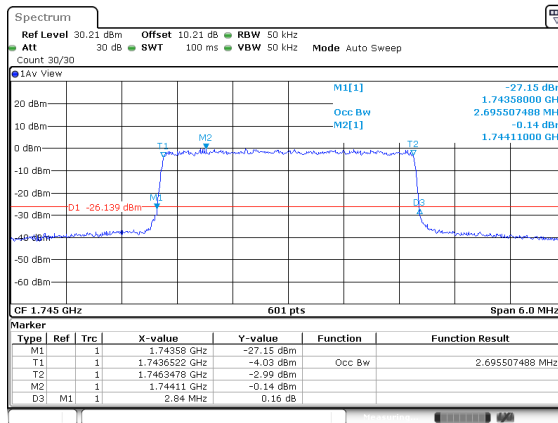




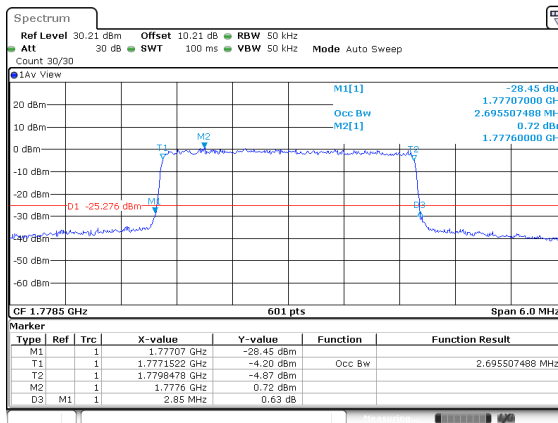
## Band66\_3MHz\_16QAM\_131987\_15RB#0



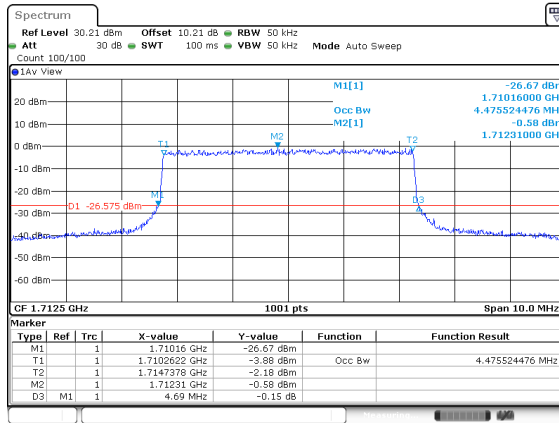
## Band66\_3MHz\_16QAM\_132322\_15RB#0



## Band66\_3MHz\_16QAM\_132657\_15RB#0

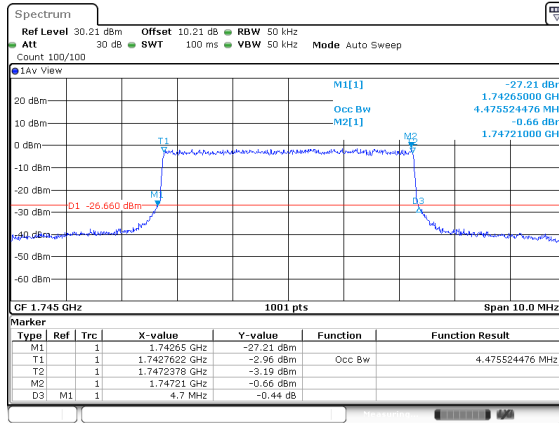


## Band66\_5MHz\_16QAM\_131997\_25RB#0



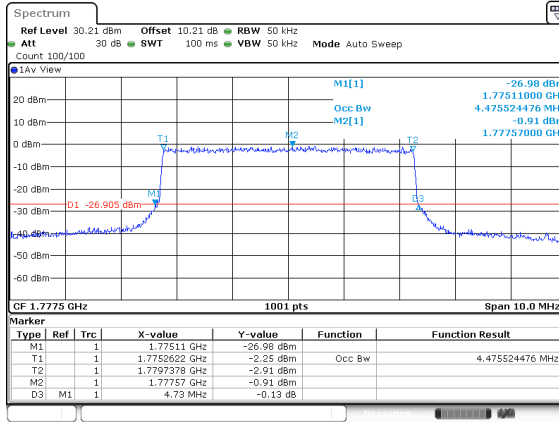
Date: 22 MAY 2019 15:27:06

## Band66\_5MHz\_16QAM\_132322\_25RB#0



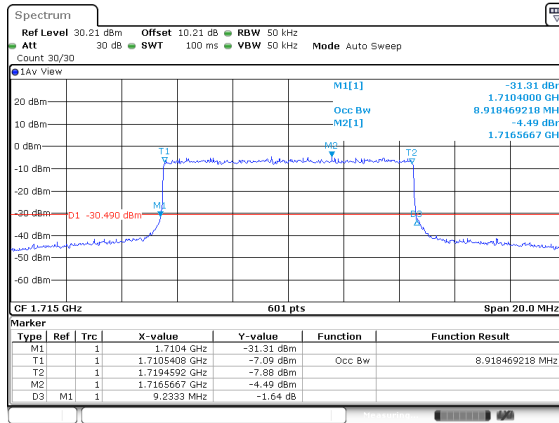
Date: 22 MAY 2019 15:27:08

## Band66\_5MHz\_16QAM\_132647\_25RB#0

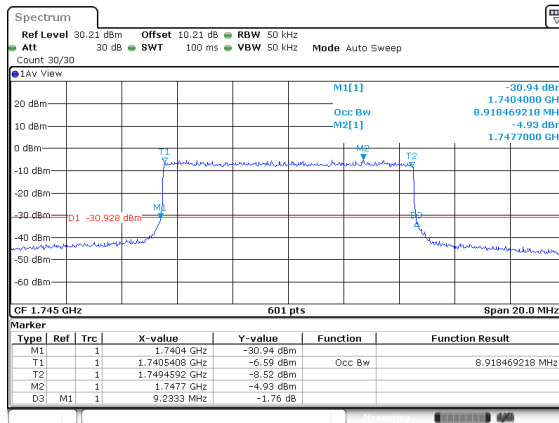


Date: 22 MAY 2019 15:28:32

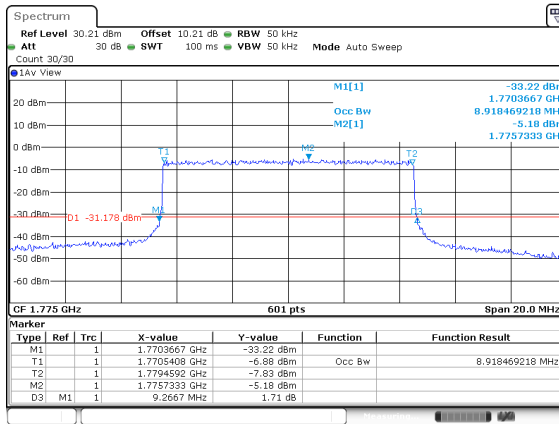
## Band66\_10MHz\_16QAM\_132022\_50RB#0



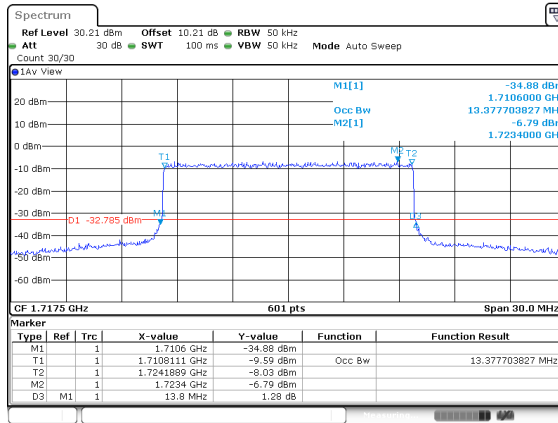
## Band66\_10MHz\_16QAM\_132322\_50RB#0



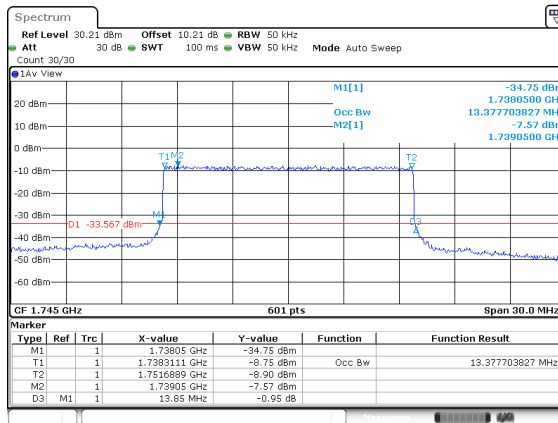
## Band66\_10MHz\_16QAM\_132622\_50RB#0



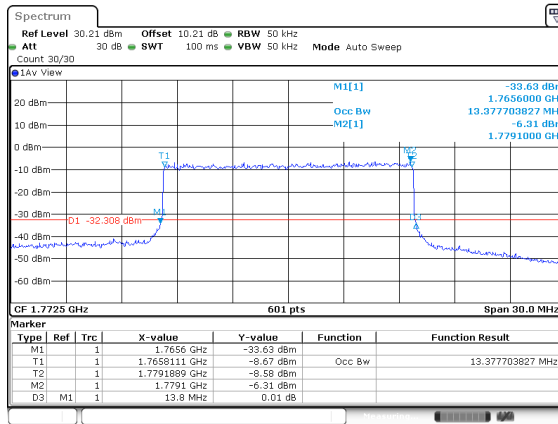
## Band66\_15MHz\_16QAM\_132047\_75RB#0



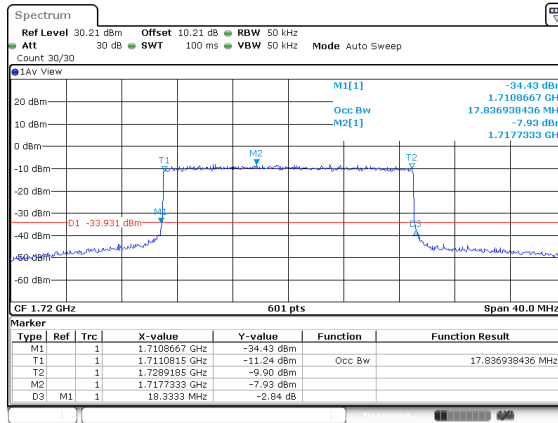
## Band66\_15MHz\_16QAM\_132322\_75RB#0



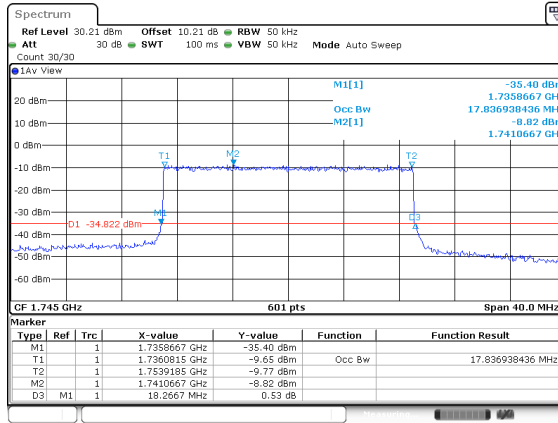
## Band66\_15MHz\_16QAM\_132597\_75RB#0



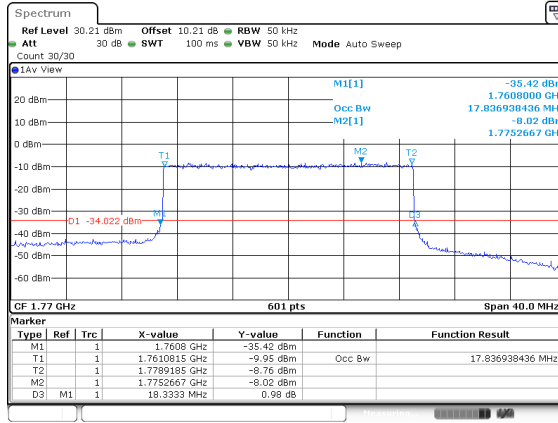
## Band66\_20MHz\_16QAM\_132072\_100RB#0



## Band66\_20MHz\_16QAM\_132322\_100RB#0



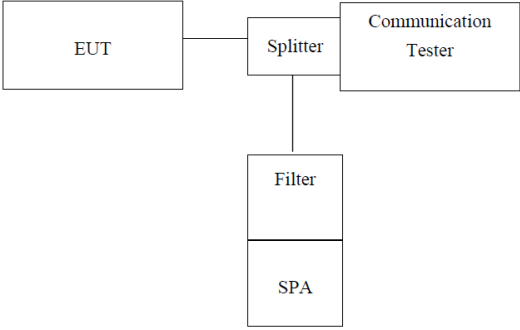
## Band66\_20MHz\_16QAM\_132572\_100RB#0



## 7.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

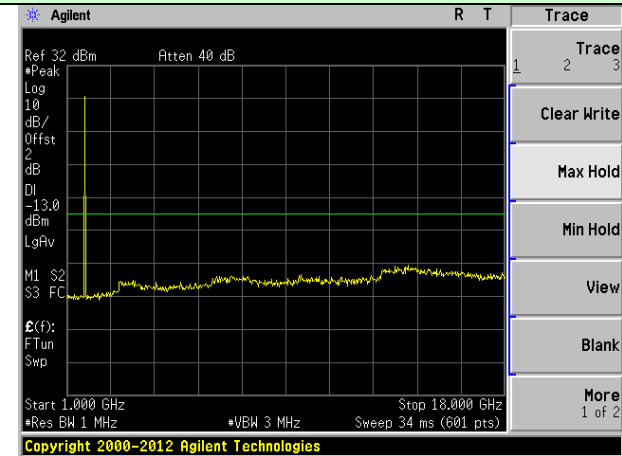
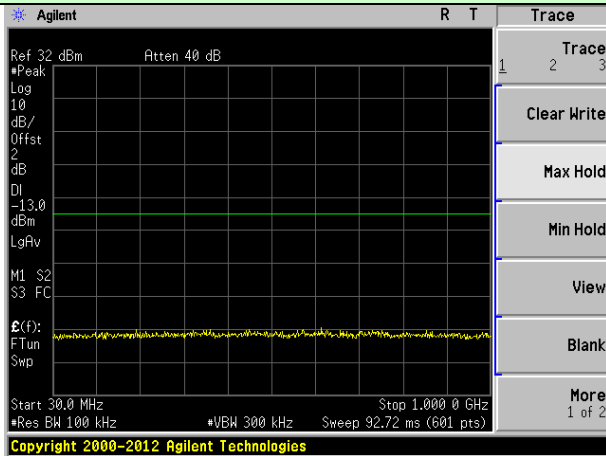
## 7.7 Out of band emission at antenna terminals

Test Requirement:	Part 24.238 (a); FCC Part 27.53(h)/(g)
Test Method:	FCC part2.1051
Limit:	Band 4/5/7/66: -13dBm Band 7: -25dBm
Test setup:	 <p><i>Note: Measurement setup for testing on Antenna connector</i></p>
Test Procedure:	<ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.</li> <li>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.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

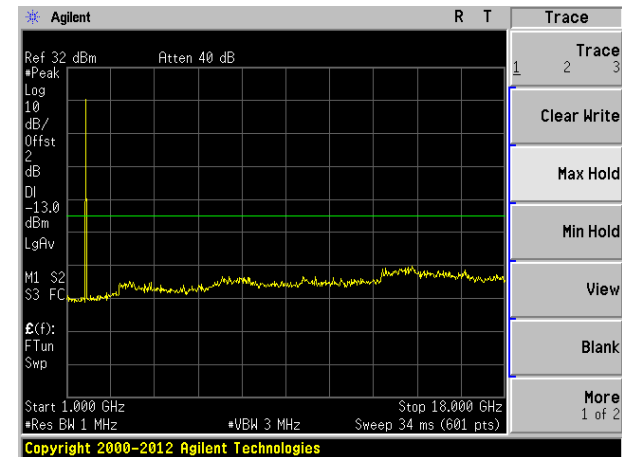
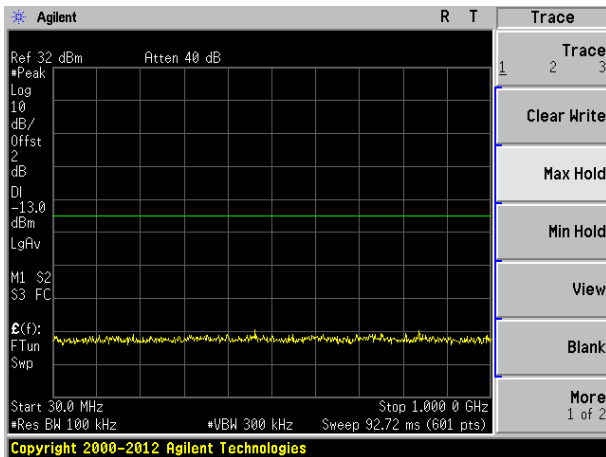
Remark: Both modulation modes have been tested, showing only the worst QPSK test data.

Test plot as follows:

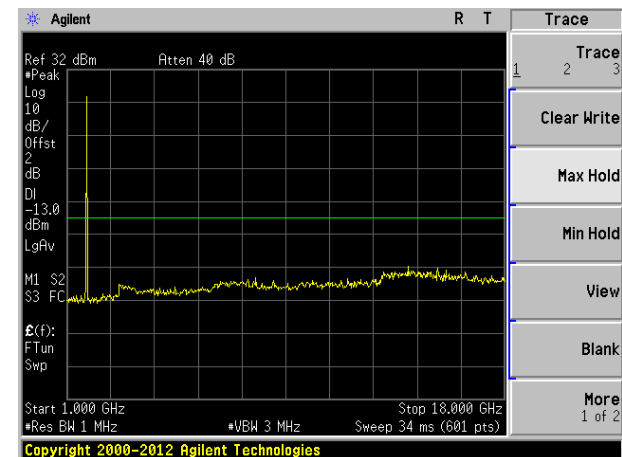
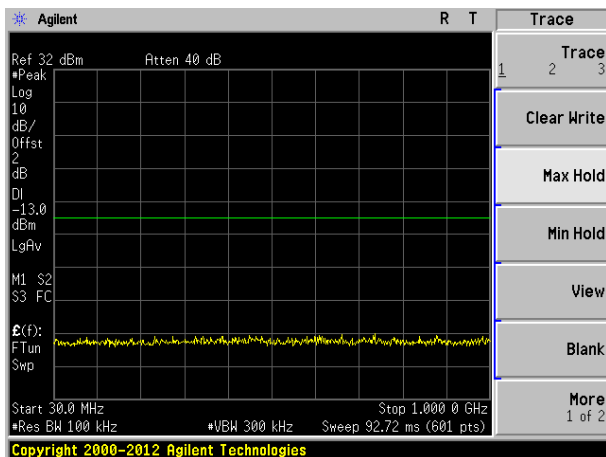
Test Mode: LTE Band 4 Channel Bandwidth: 1.4MHz



Lowest channel

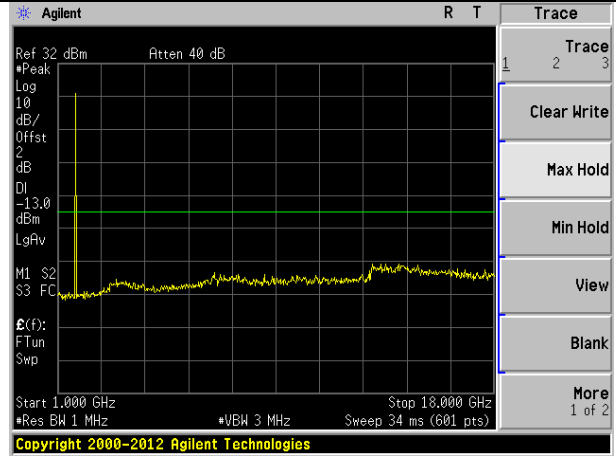
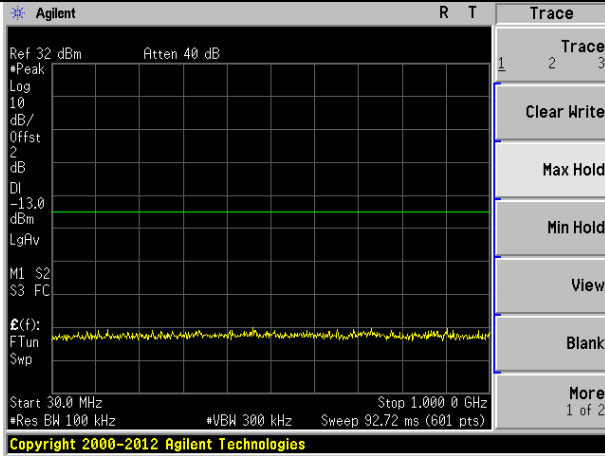


Middle channel

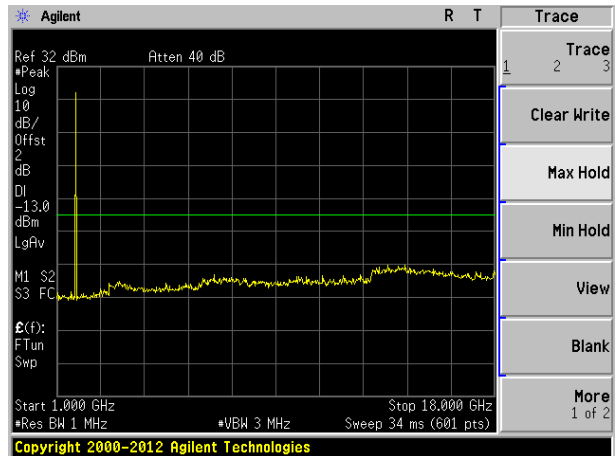
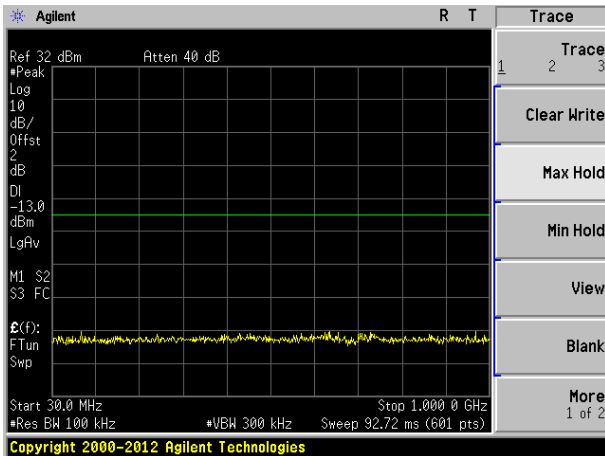


Highest channel

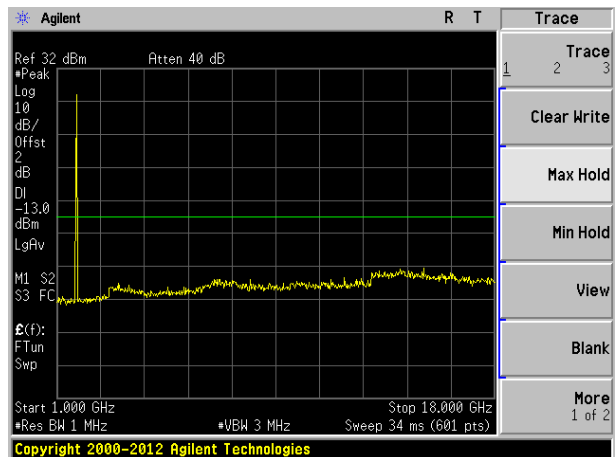
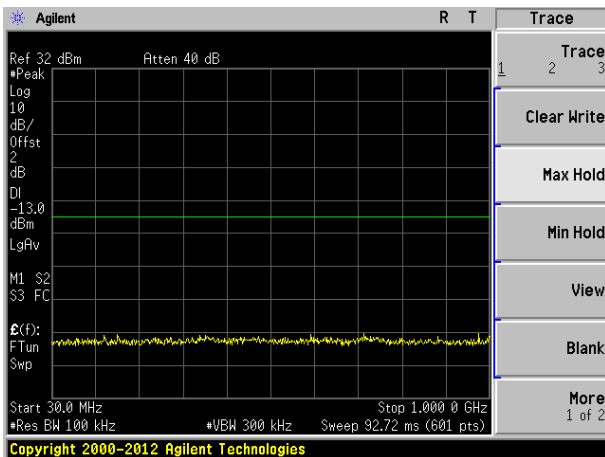
Test Mode: LTE Band 4 Channel Bandwidth: 3MHz



Lowest channel



Middle channel

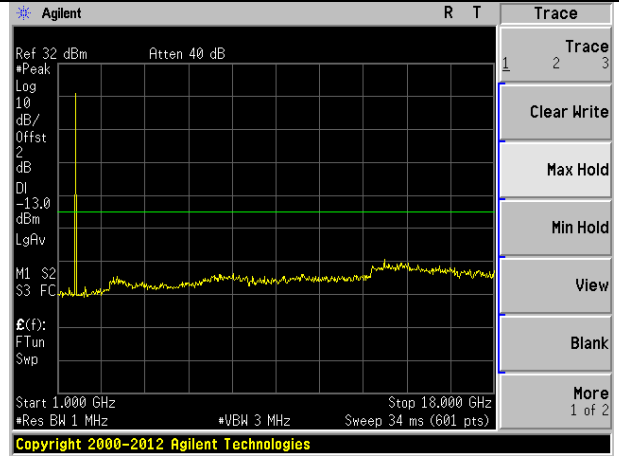
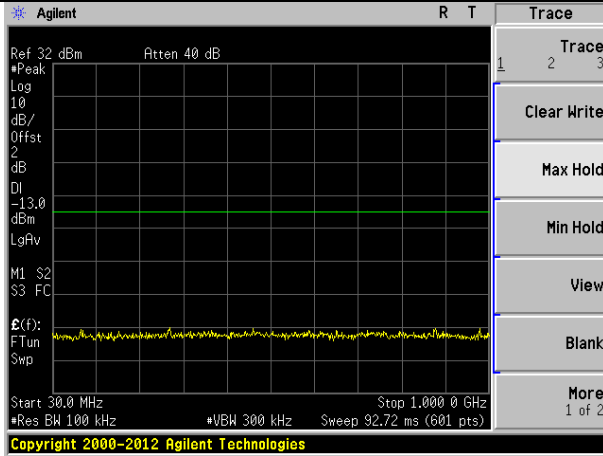


Highest channel

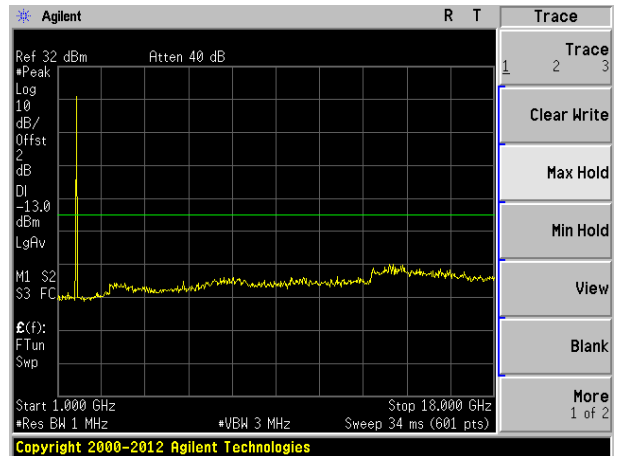
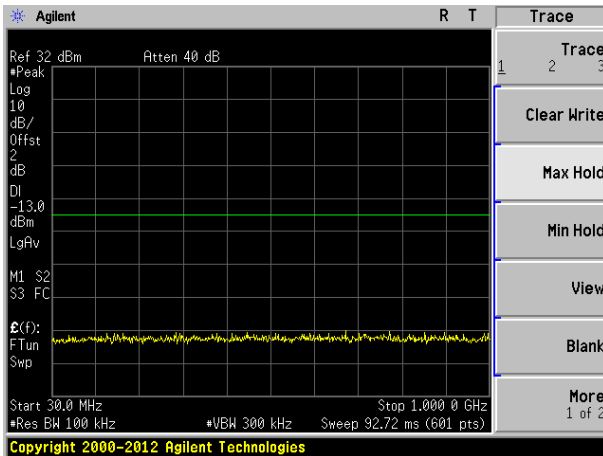


Test Mode: LTE Band 4

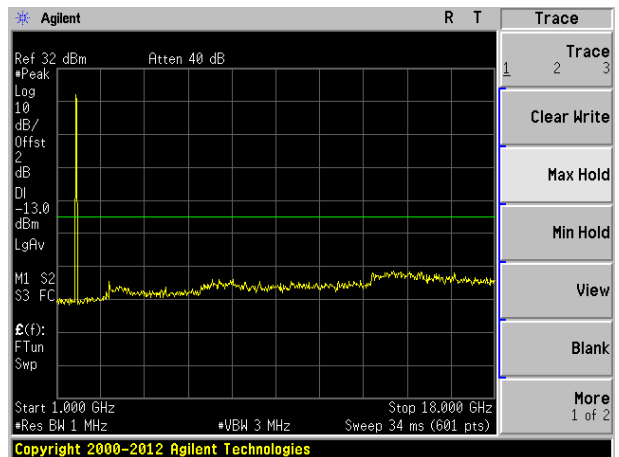
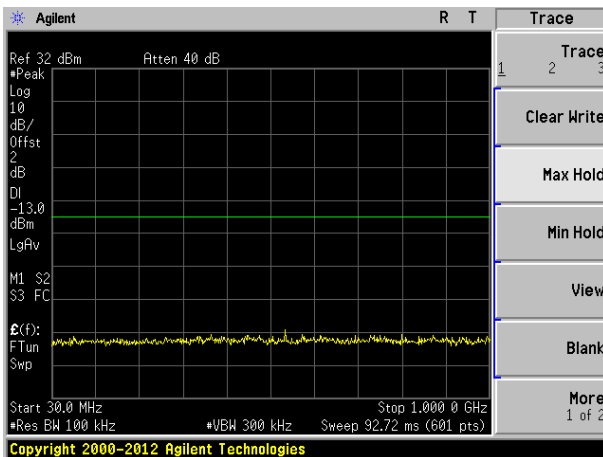
Channel Bandwidth: 5MHz



Lowest channel

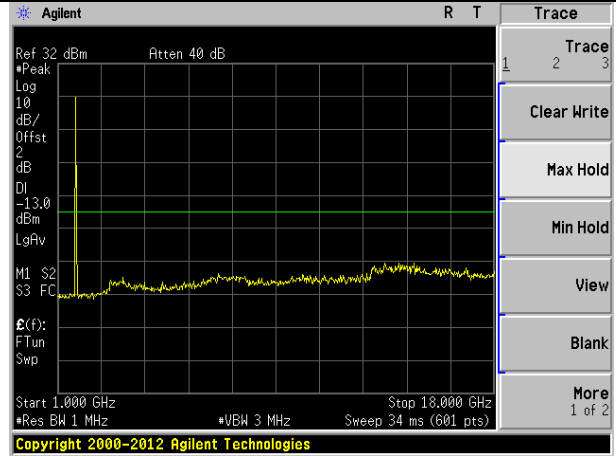
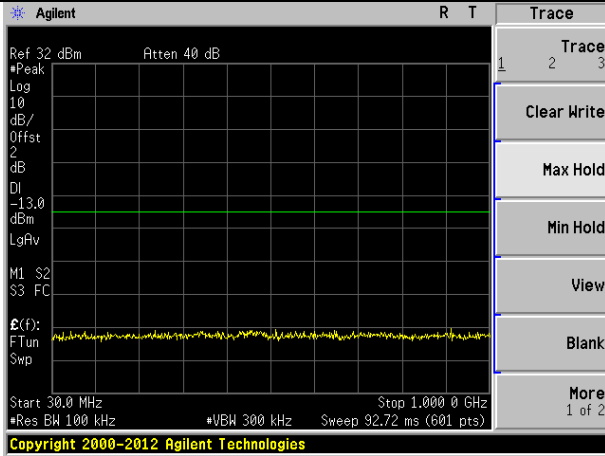


Middle channel

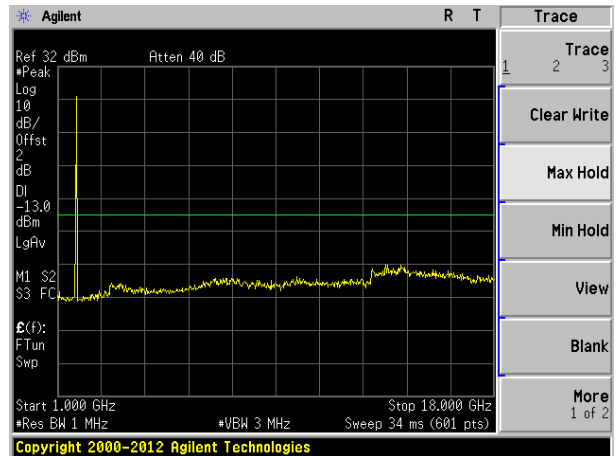
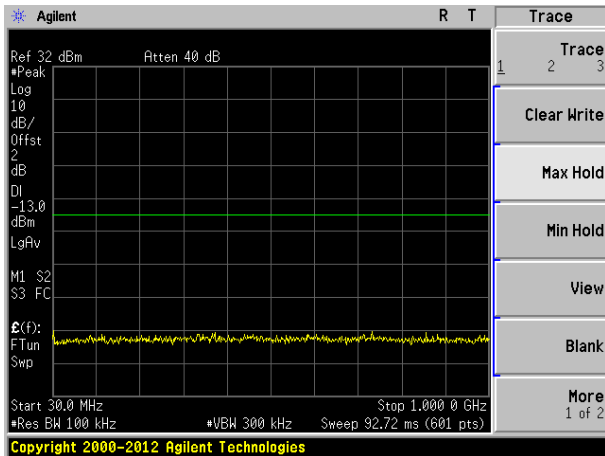


Highest channel

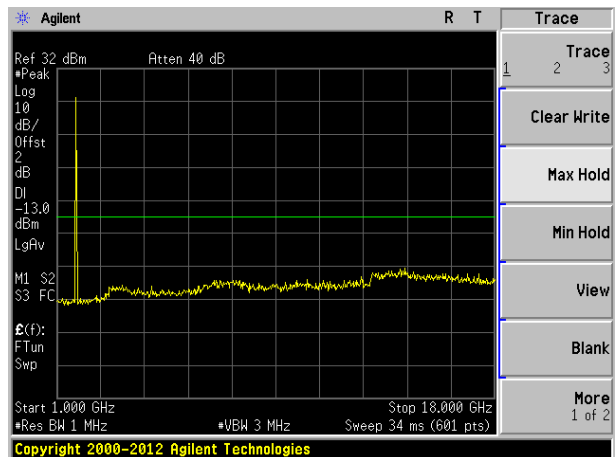
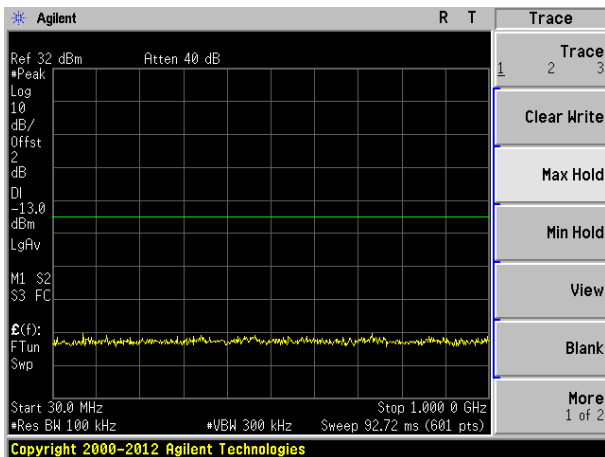
Test Mode: LTE Band 4 Channel Bandwidth: 10MHz



Lowest channel

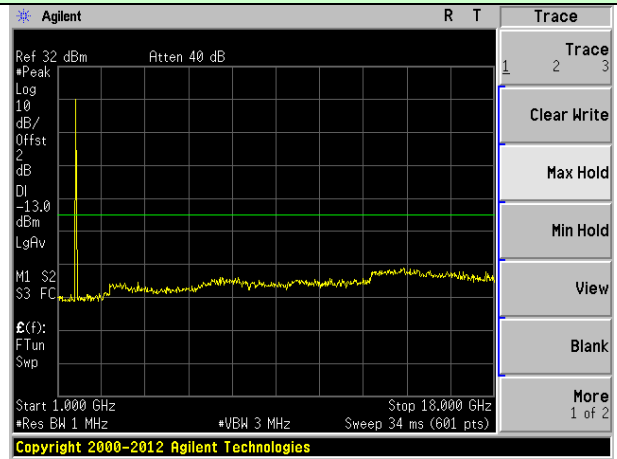
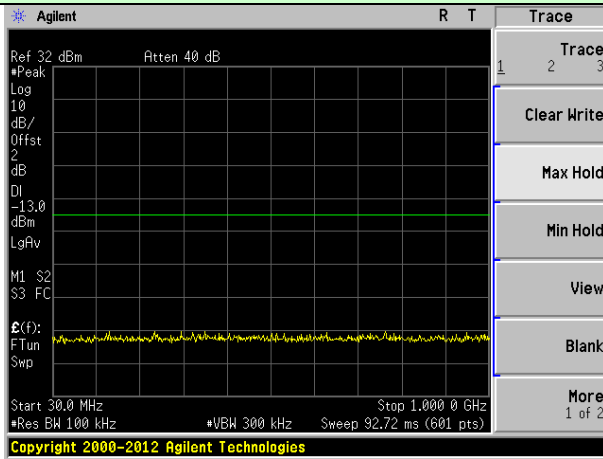


Middle channel

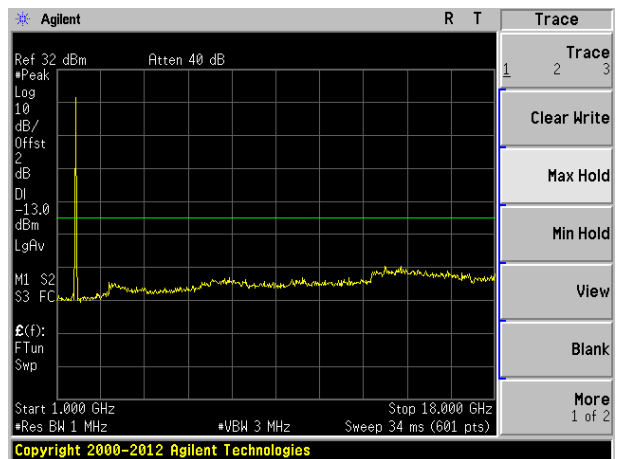
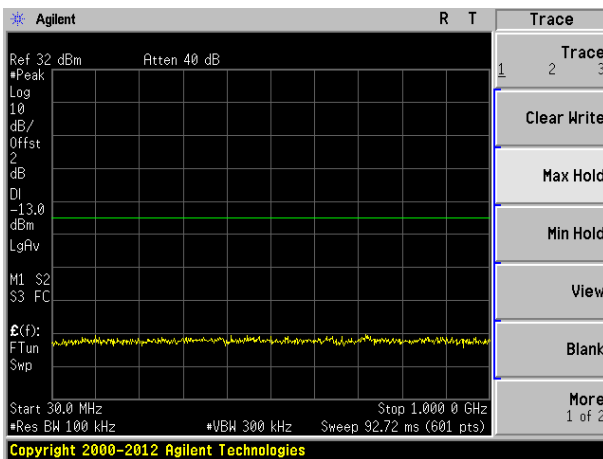


Highest channel

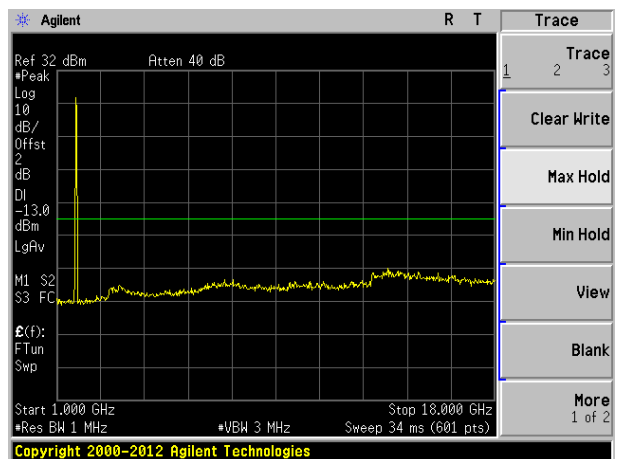
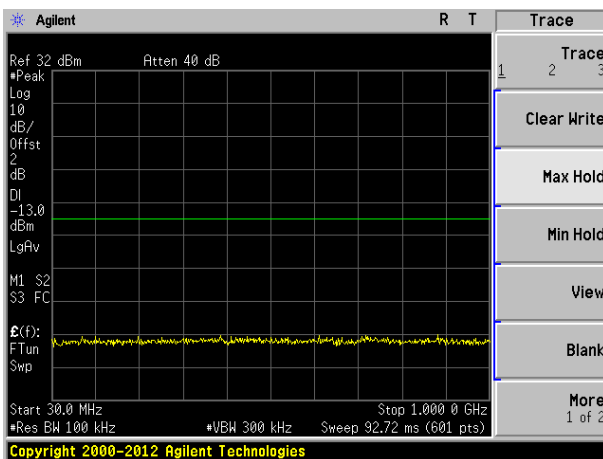
Test Mode: LTE Band 4 Channel Bandwidth: 15MHz



Lowest channel

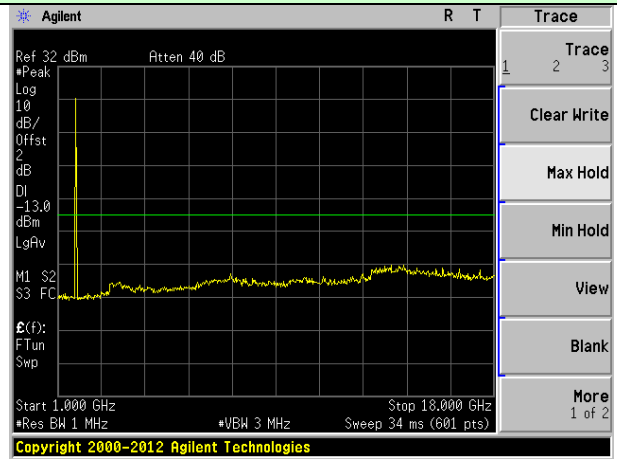
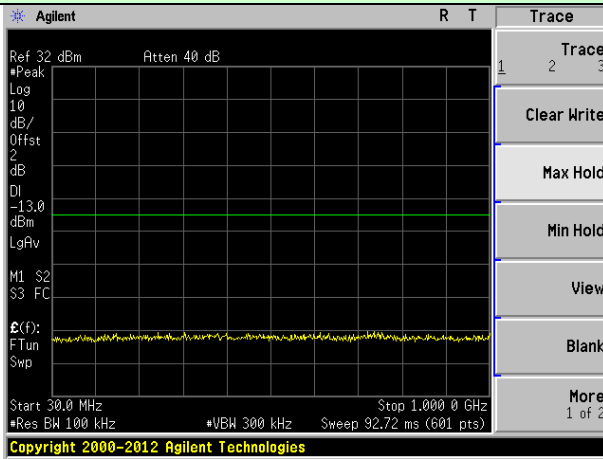


Middle channel

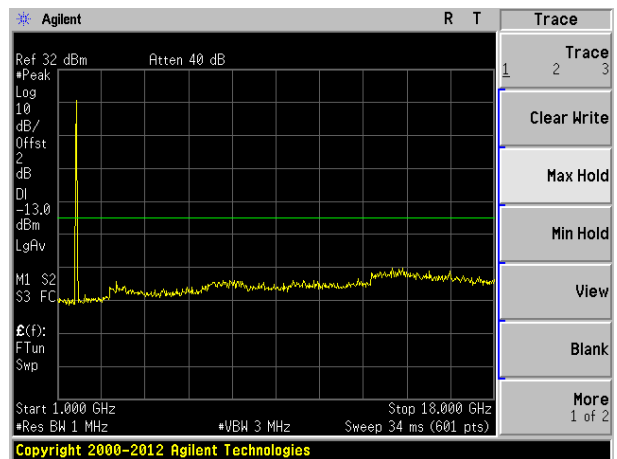
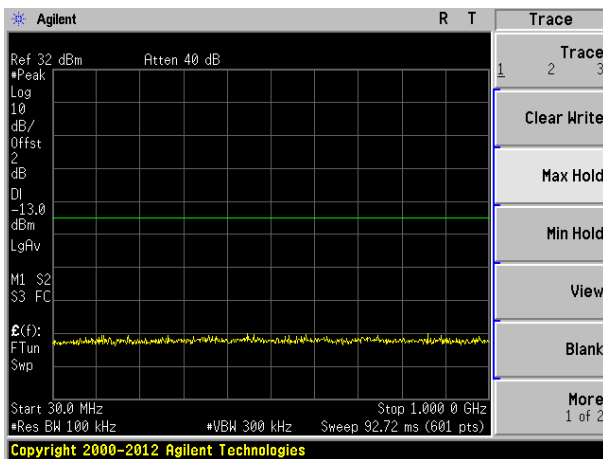


Highest channel

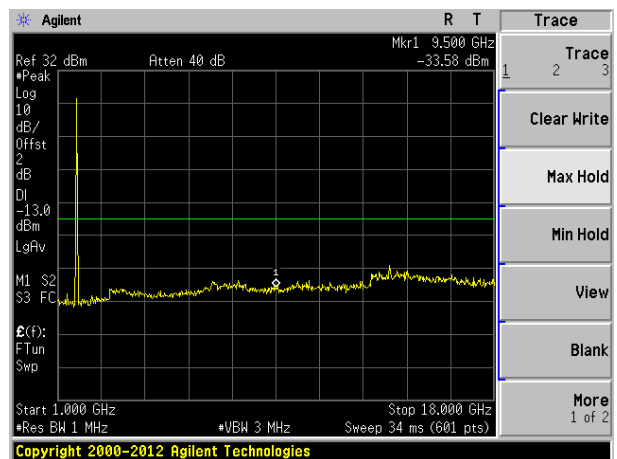
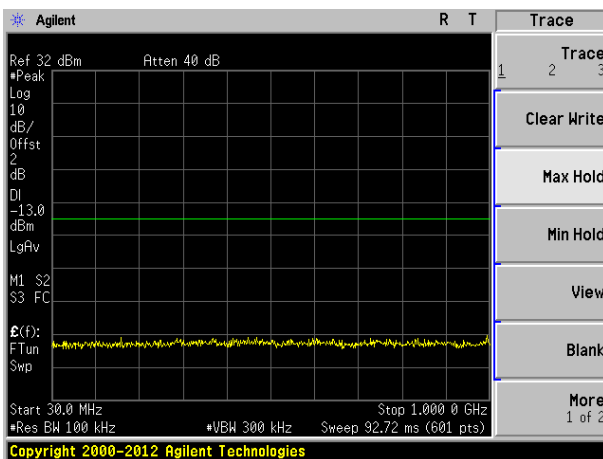
Test Mode: LTE Band 4 Channel Bandwidth: 20MHz



Lowest channel

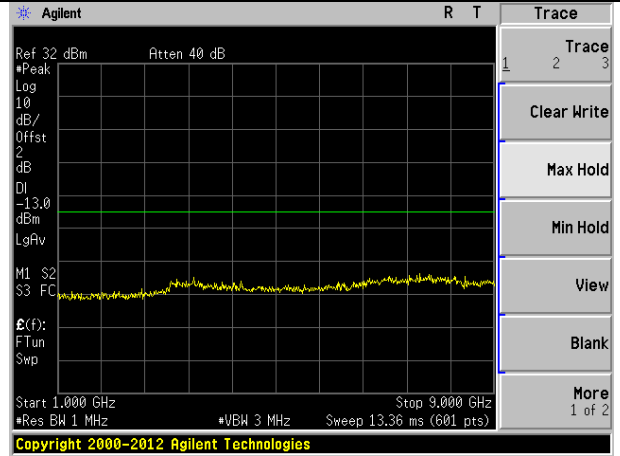
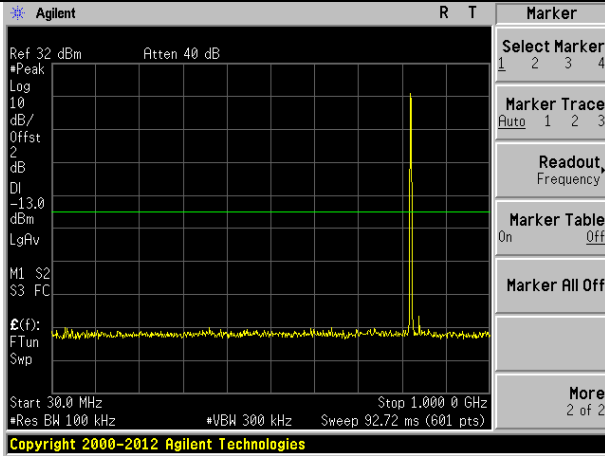


Middle channel

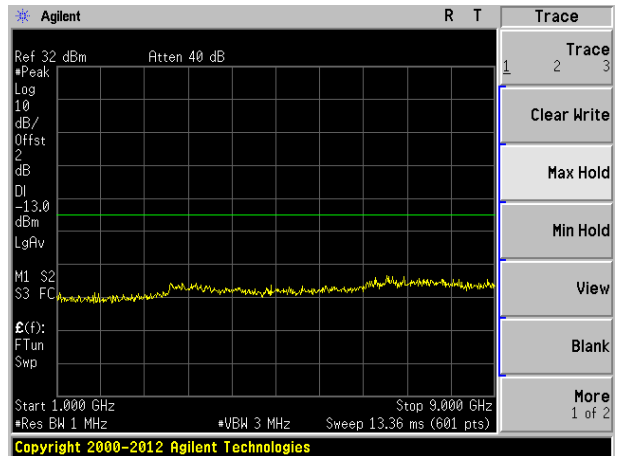
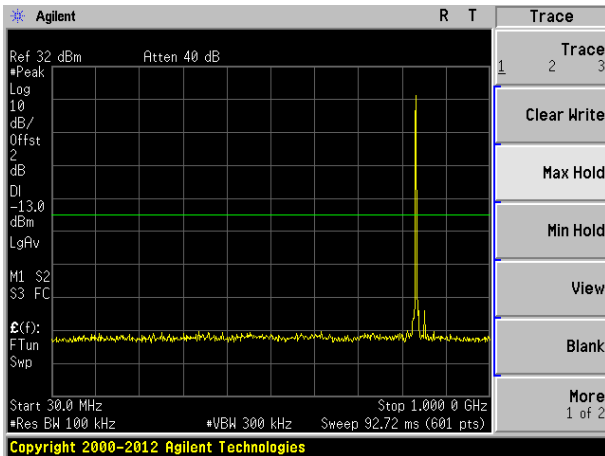


Highest channel

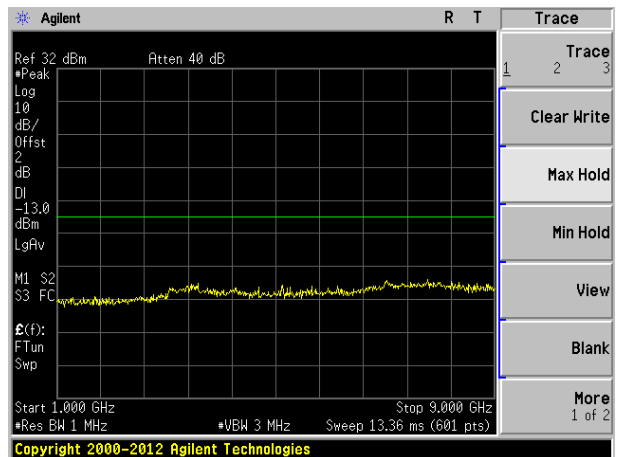
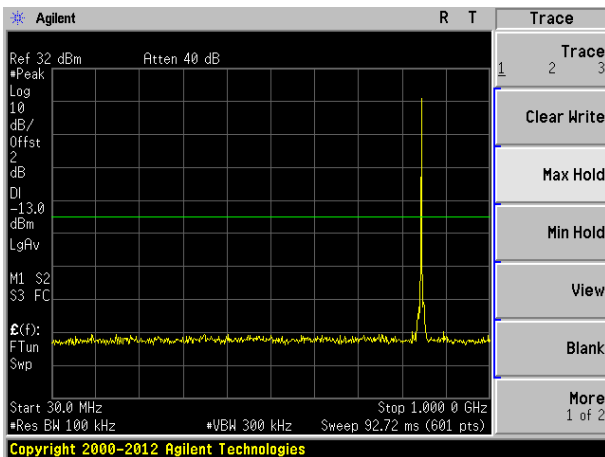
Test Mode: LTE Band 5 Channel Bandwidth: 1.4MHz



Lowest channel



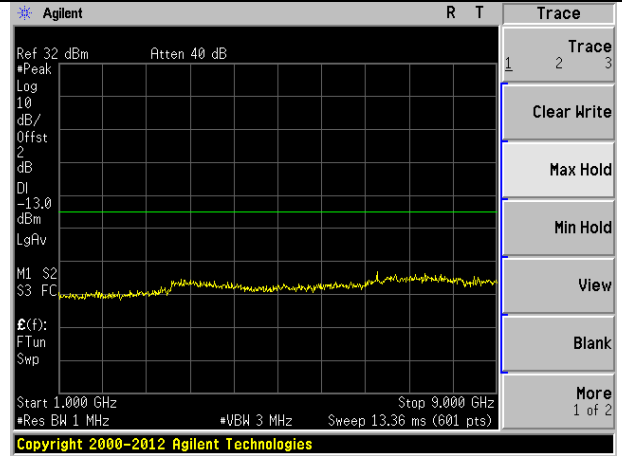
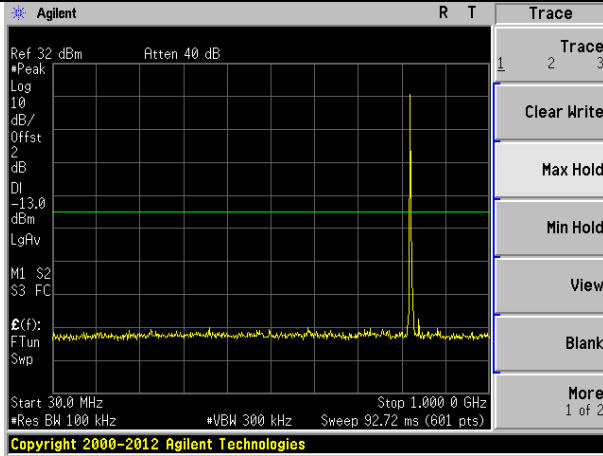
Middle channel



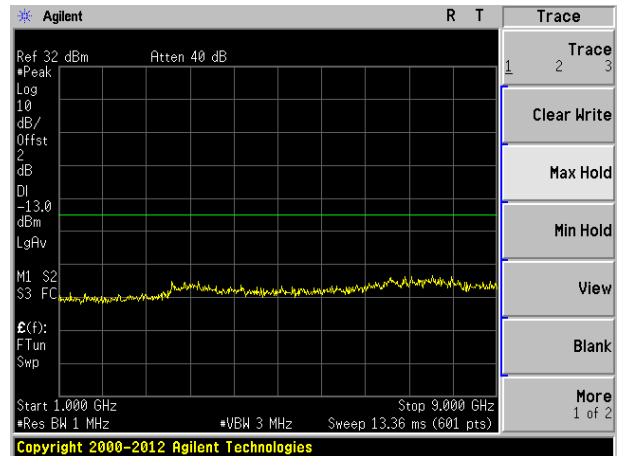
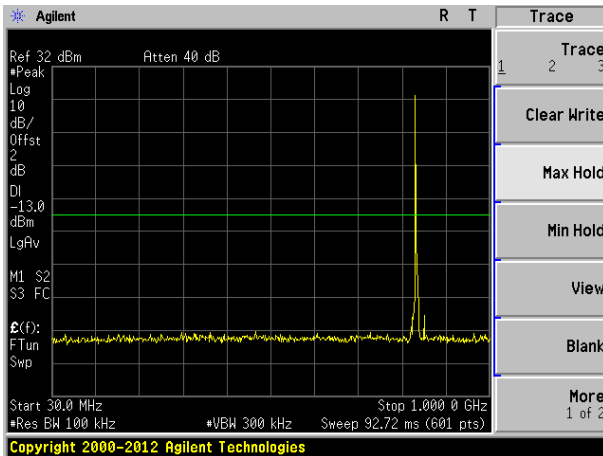
Highest channel

Test Mode: LTE Band 5

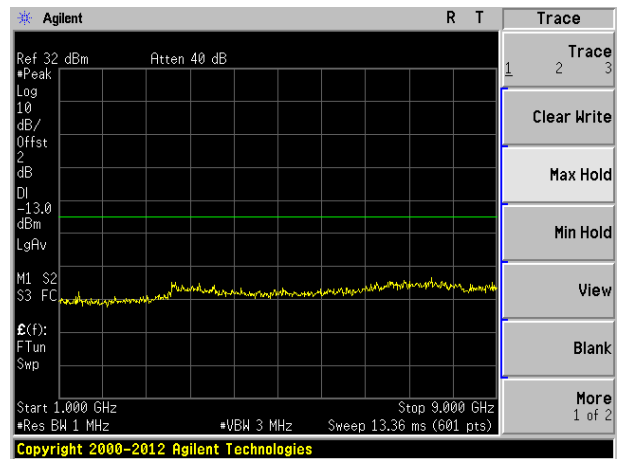
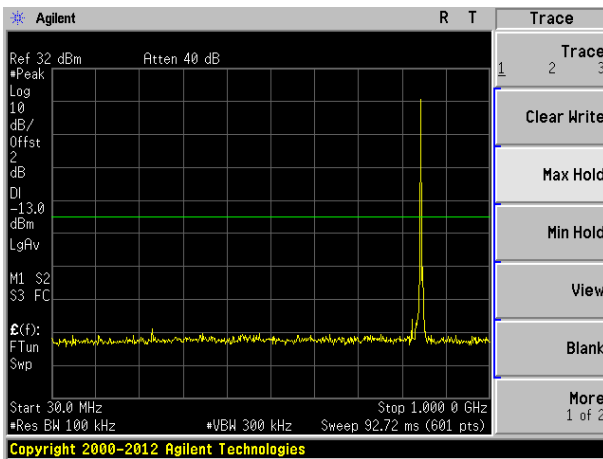
Channel Bandwidth: 3MHz



Lowest channel



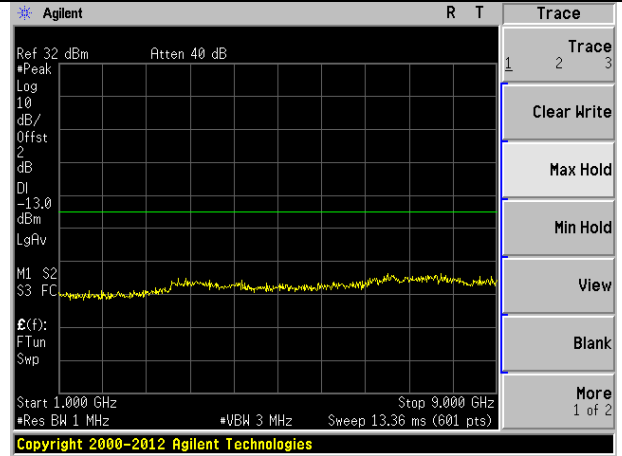
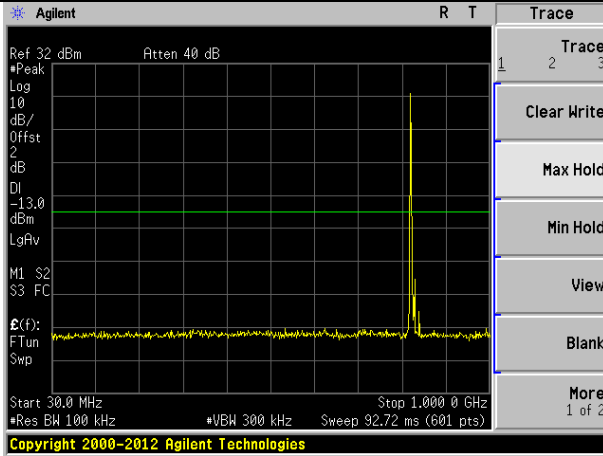
Middle channel



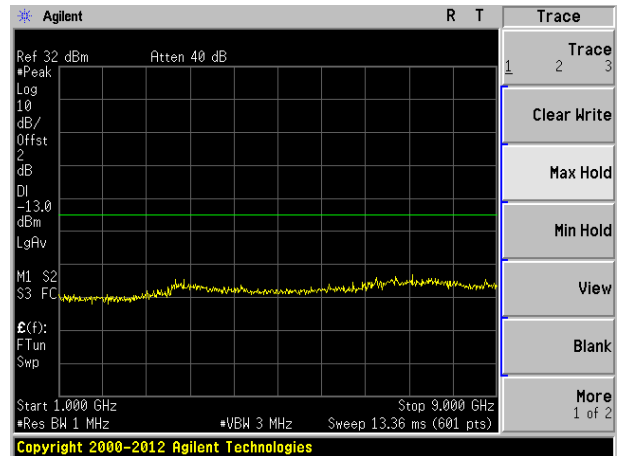
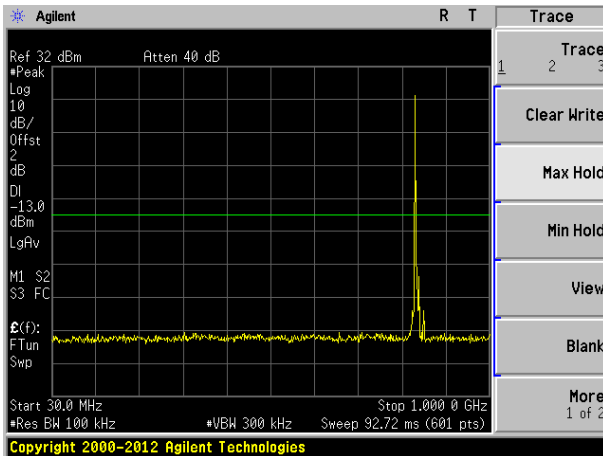
Highest channel

Test Mode: LTE Band 5

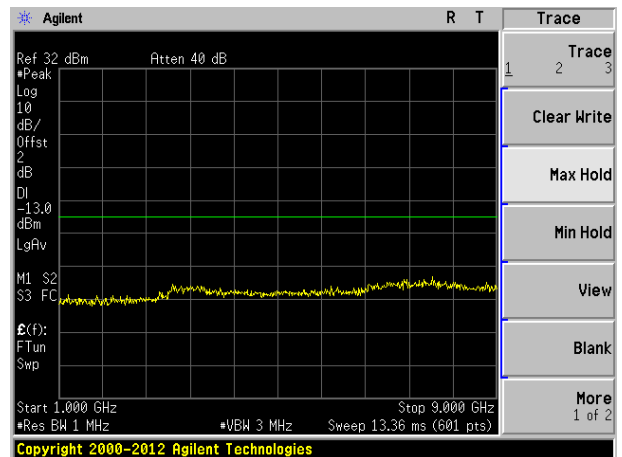
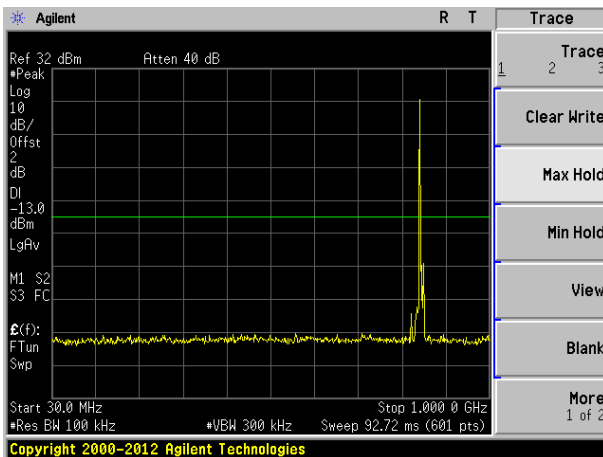
Channel Bandwidth: 5MHz



Lowest channel

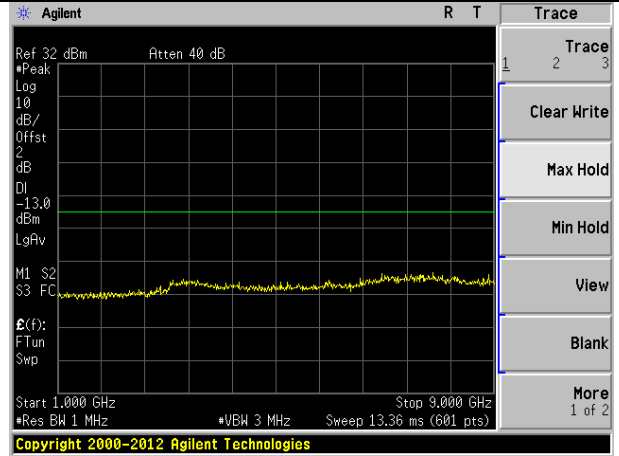
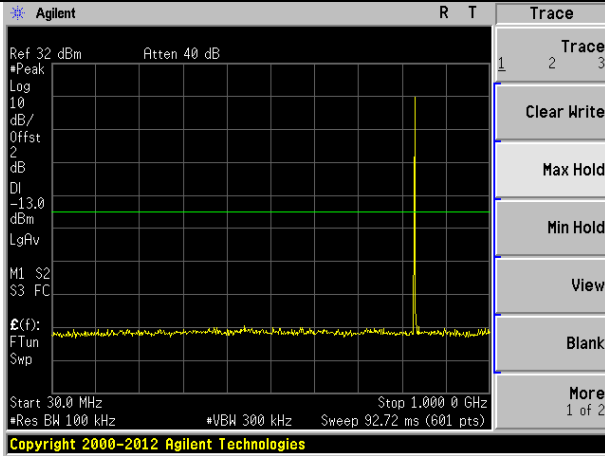


Middle channel

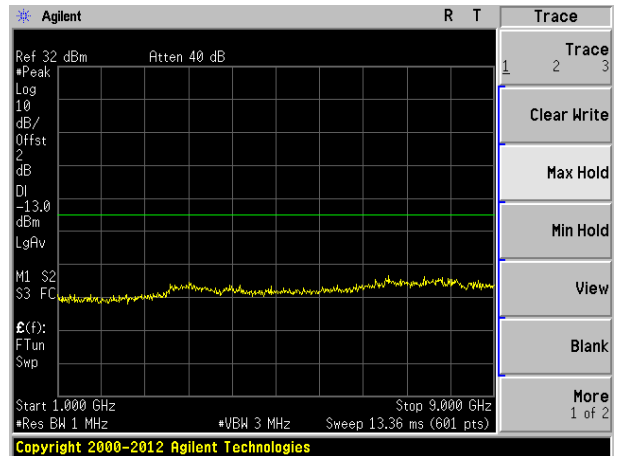
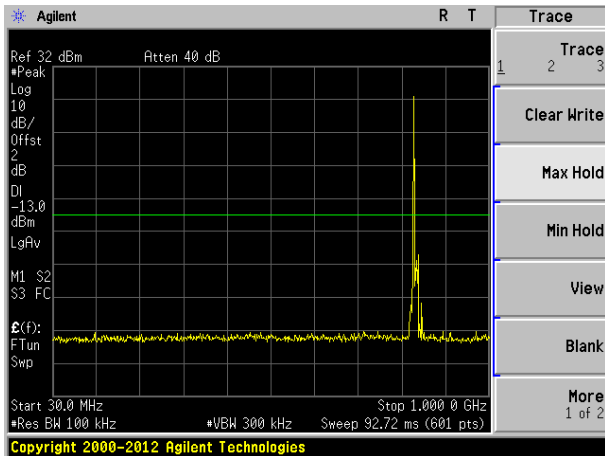


Highest channel

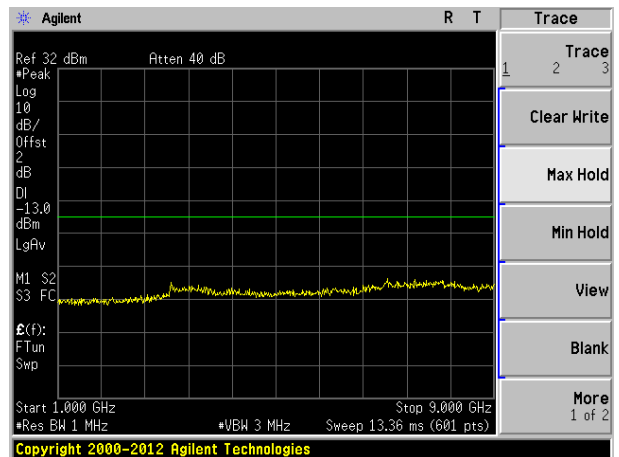
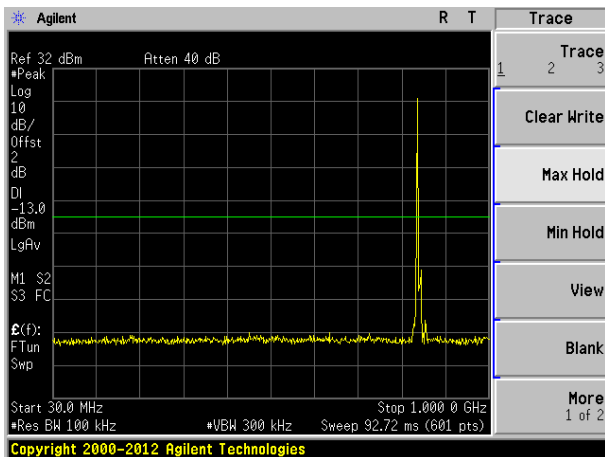
Test Mode: LTE Band 5 Channel Bandwidth: 10MHz



Lowest channel



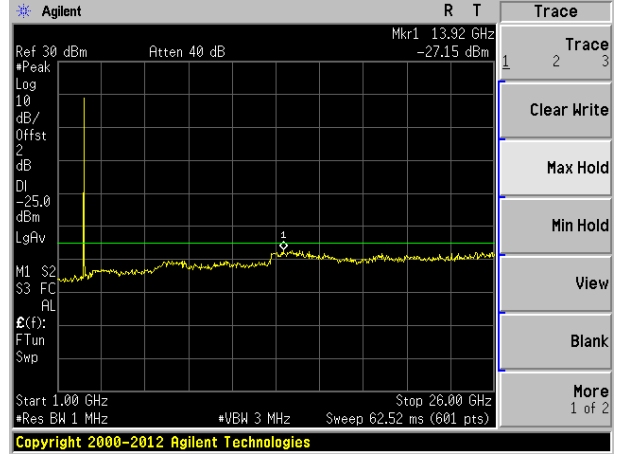
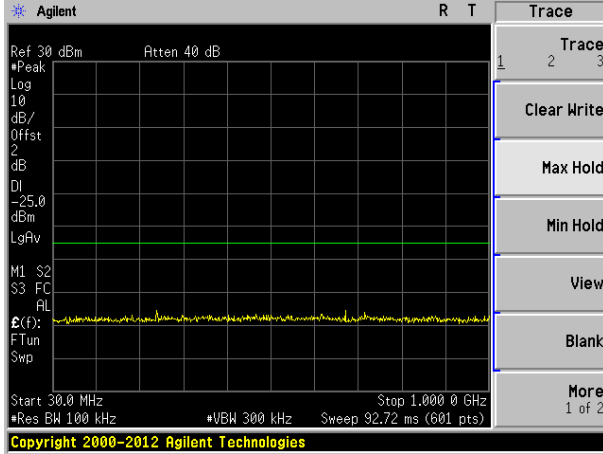
Middle channel



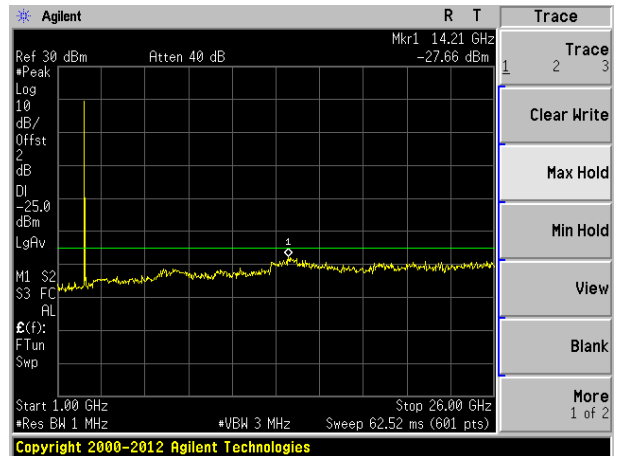
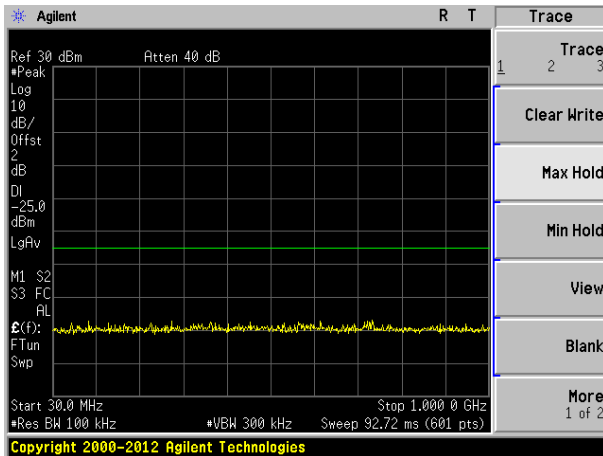
Highest channel



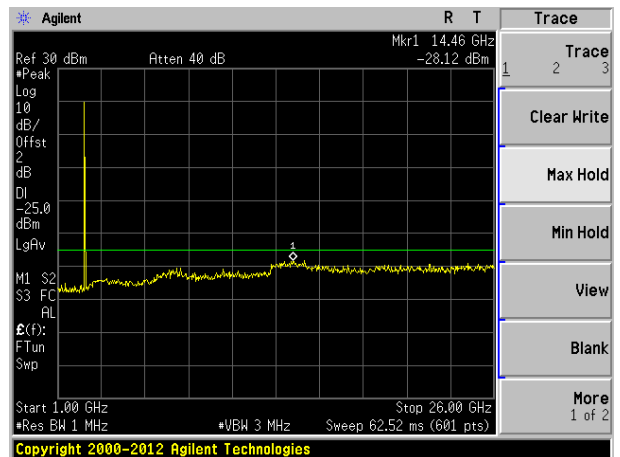
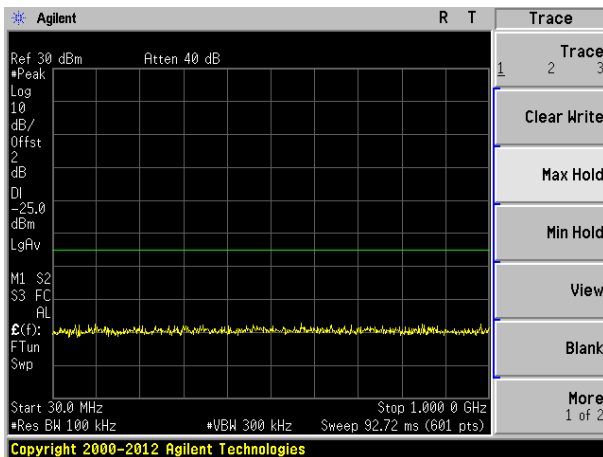
Test Mode: LTE Band 7 Channel Bandwidth: 5MHz



Lowest channel

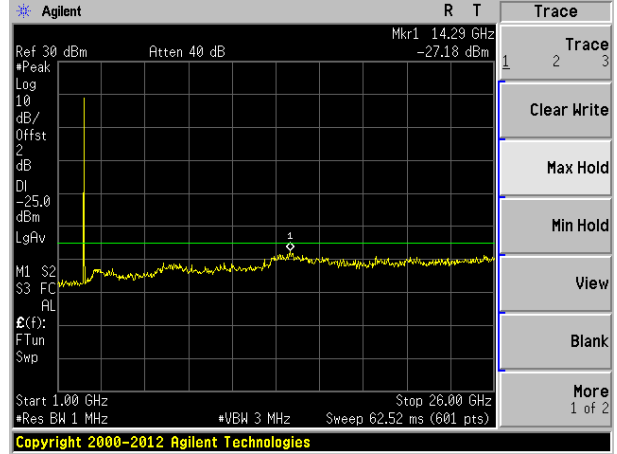
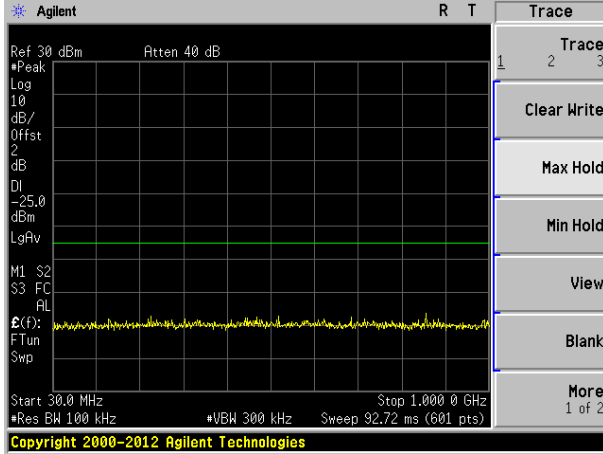


Middle channel

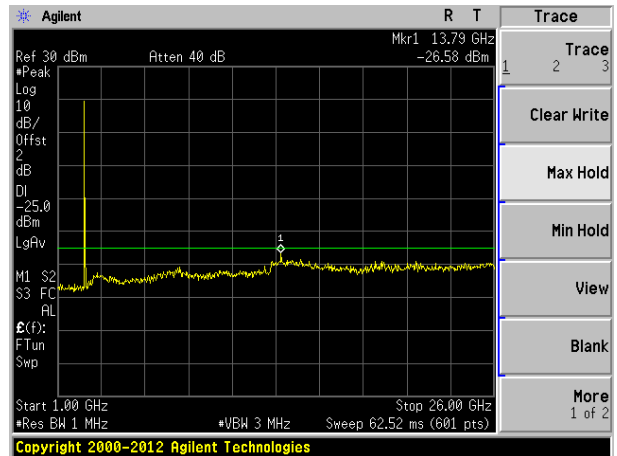
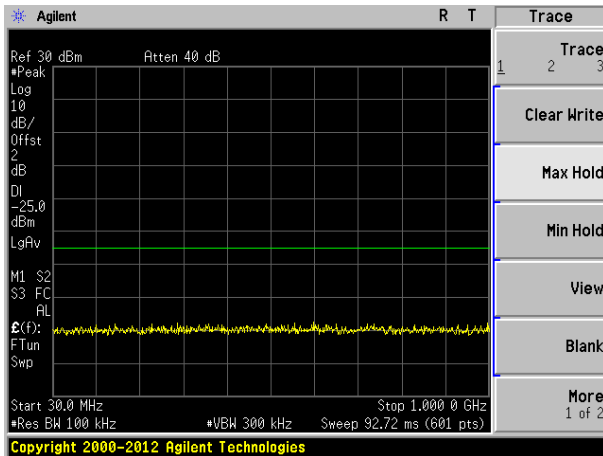


Highest channel

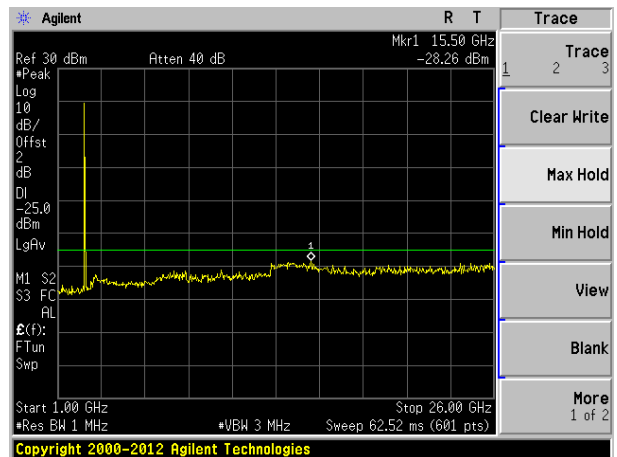
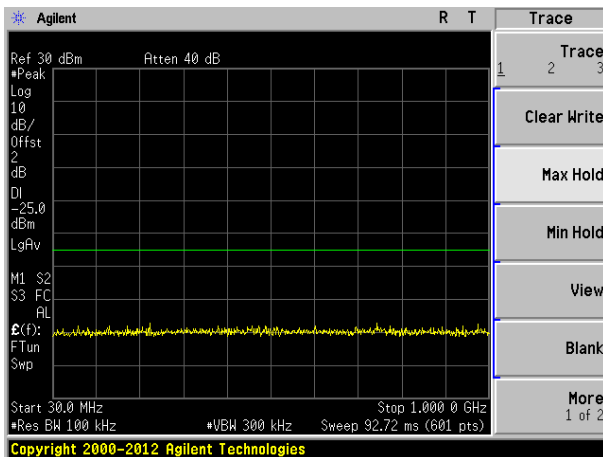
Test Mode: LTE Band 7 Channel Bandwidth: 10MHz



Lowest channel

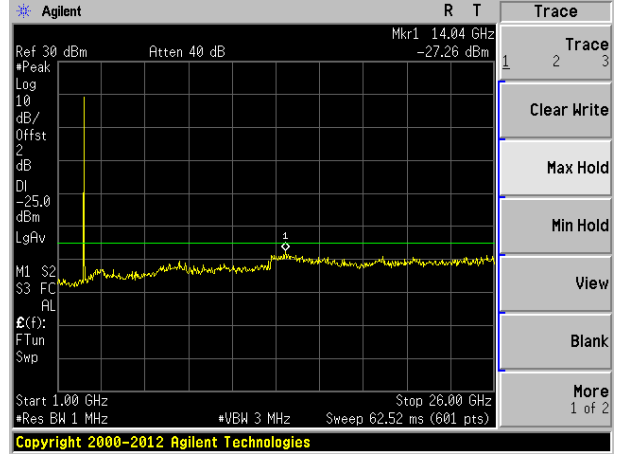
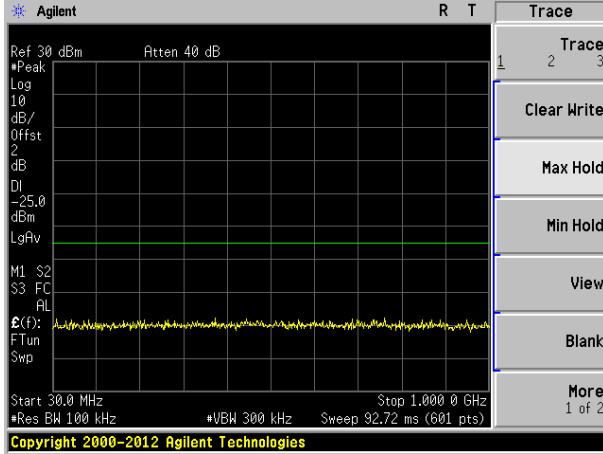


Middle channel

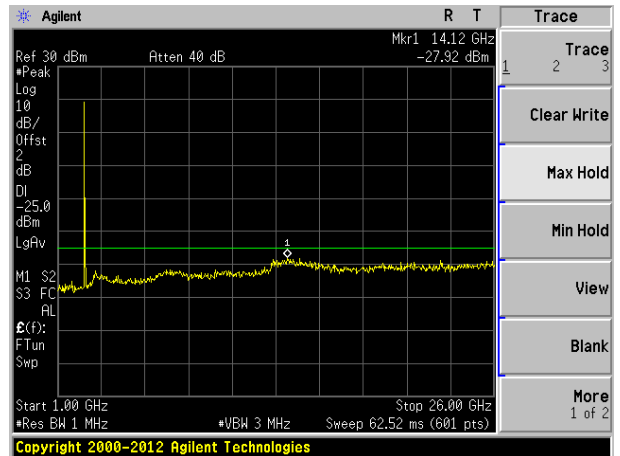
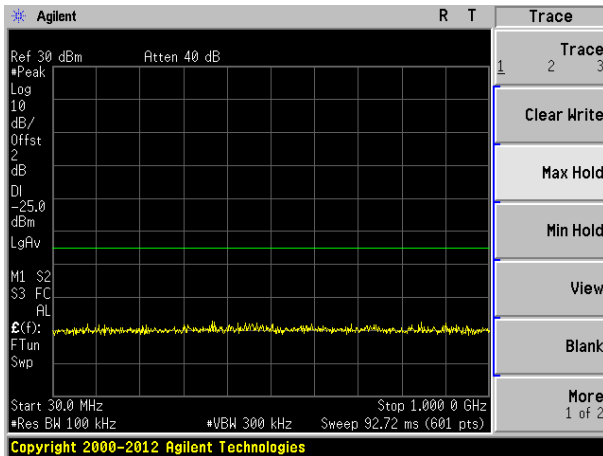


Highest channel

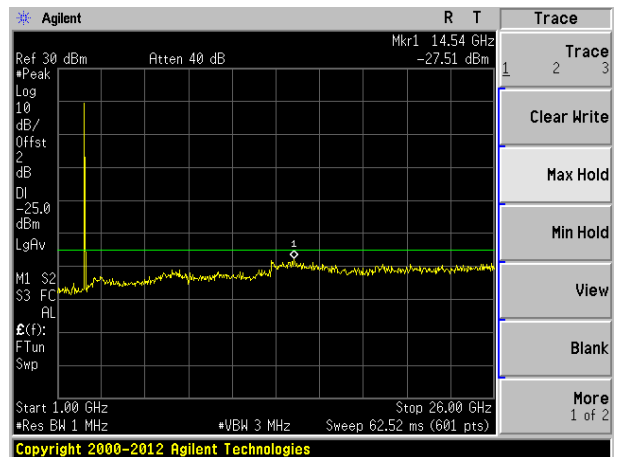
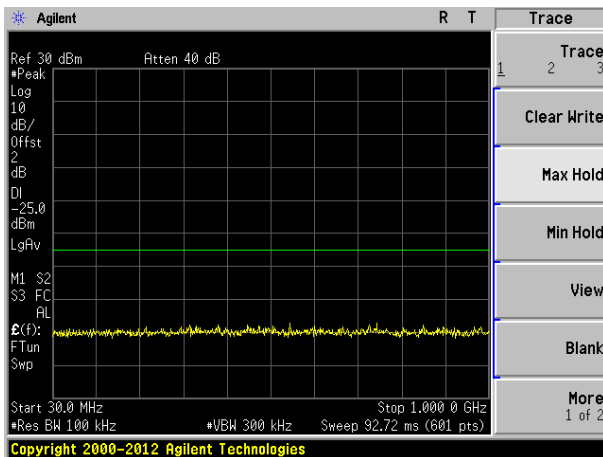
Test Mode: LTE Band 7 Channel Bandwidth: 15MHz



Lowest channel

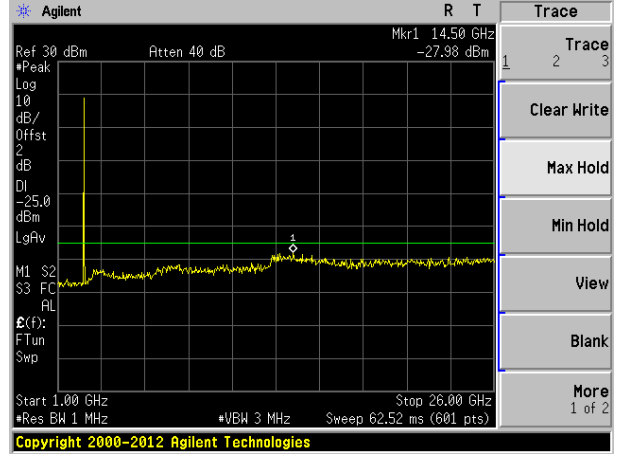
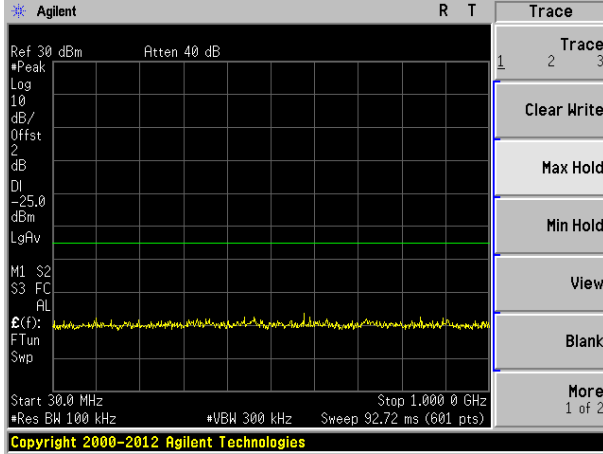


Middle channel

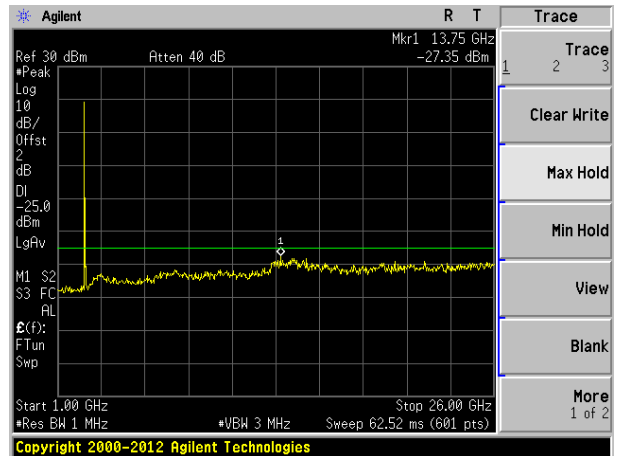
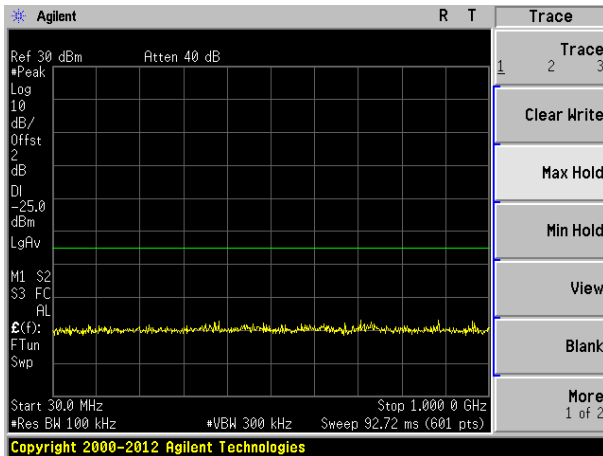


Highest channel

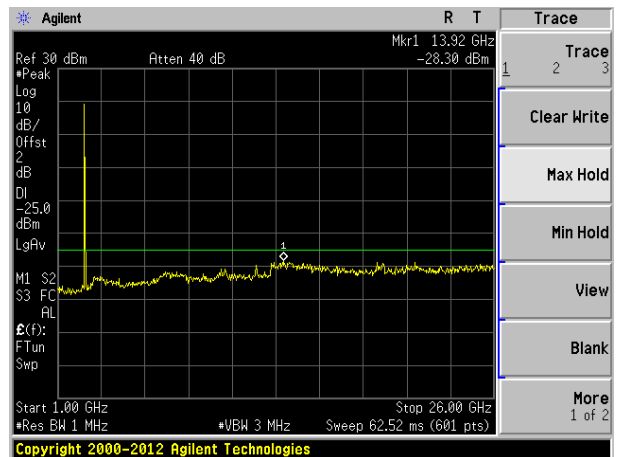
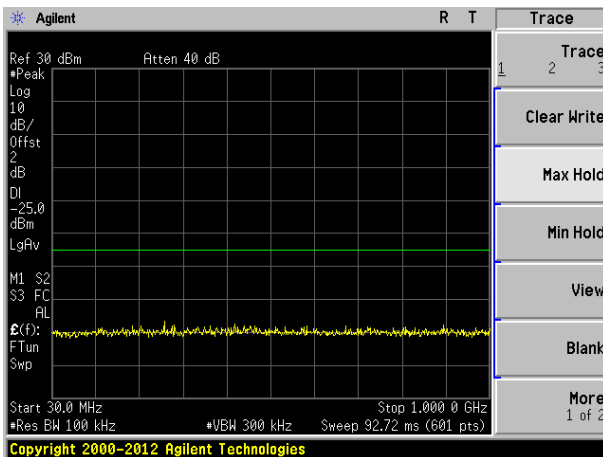
Test Mode: LTE Band 7 Channel Bandwidth: 20MHz



Lowest channel

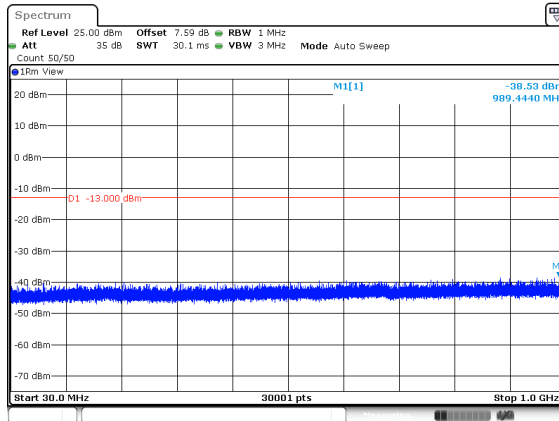


Middle channel

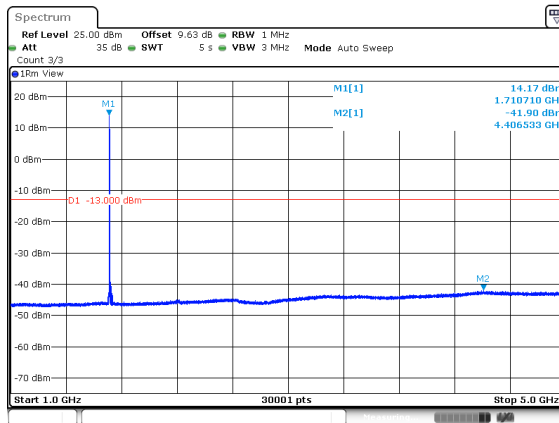


Highest channel

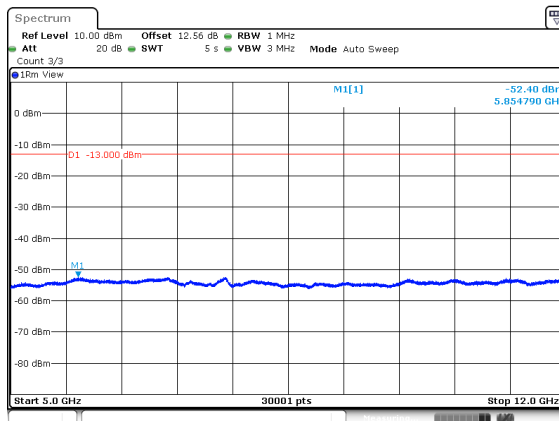
Band66\_1.4MHz\_QPSK\_131979\_6RB#0



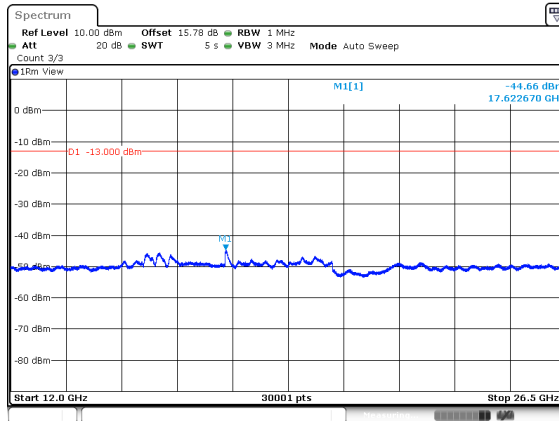
Band66\_1.4MHz\_QPSK\_131979\_6RB#0



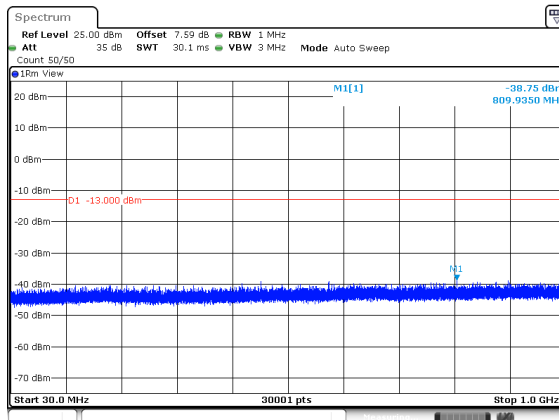
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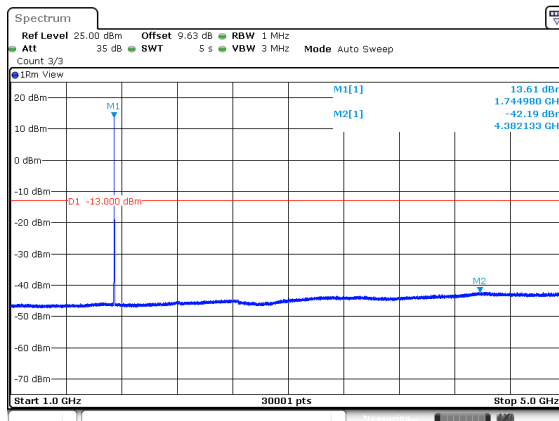
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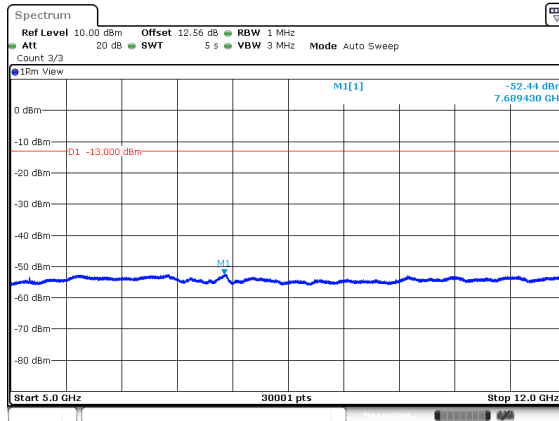
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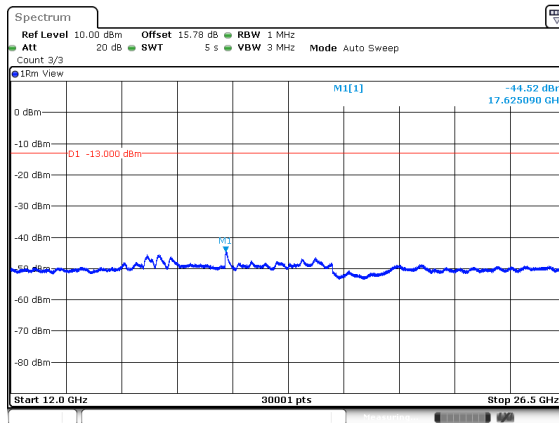
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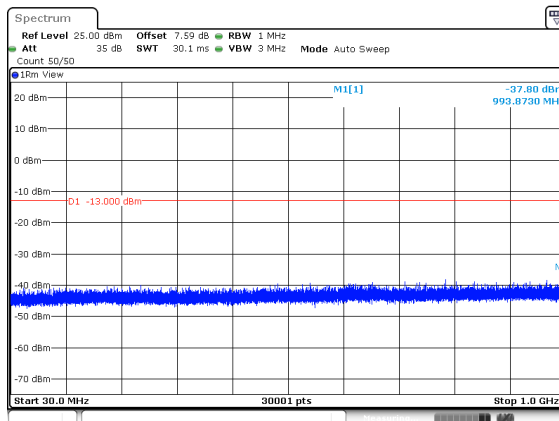
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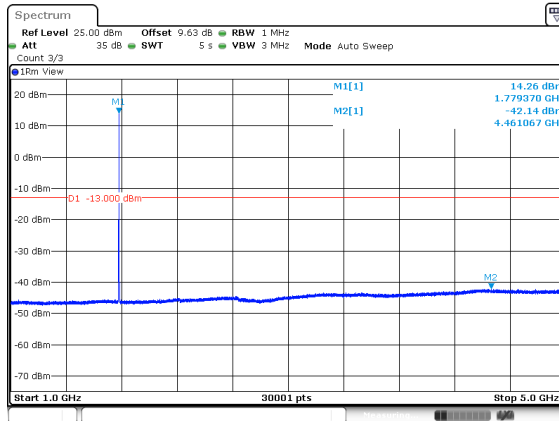
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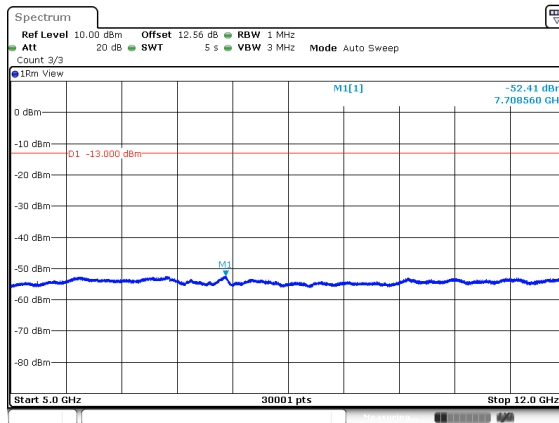
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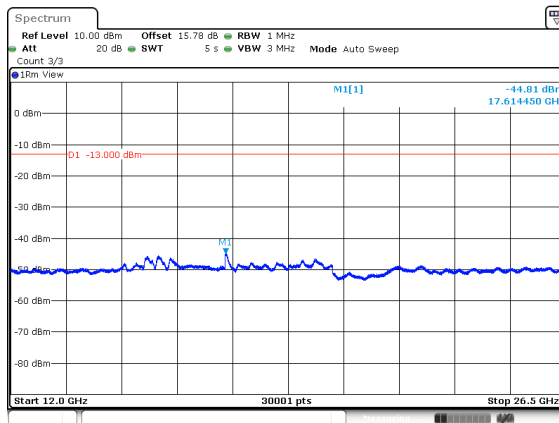
Band66\_1.4MHz\_QPSK\_132665\_6RB#0



Band66\_1.4MHz\_QPSK\_132665\_6RB#0

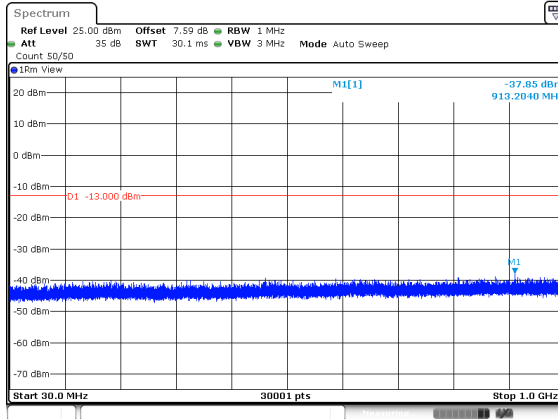


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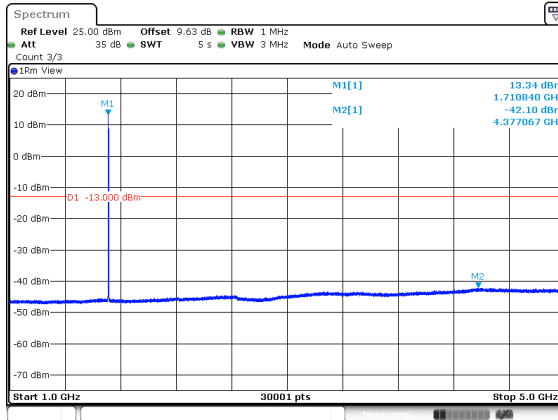




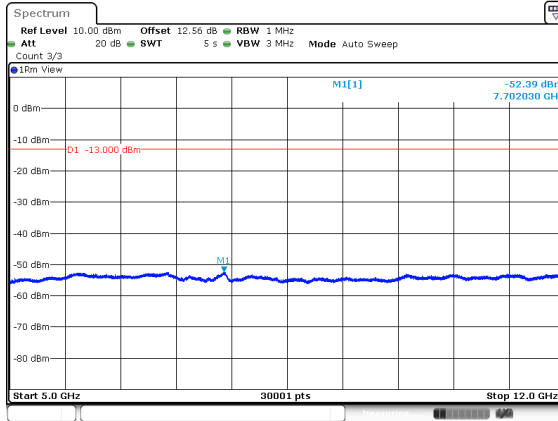
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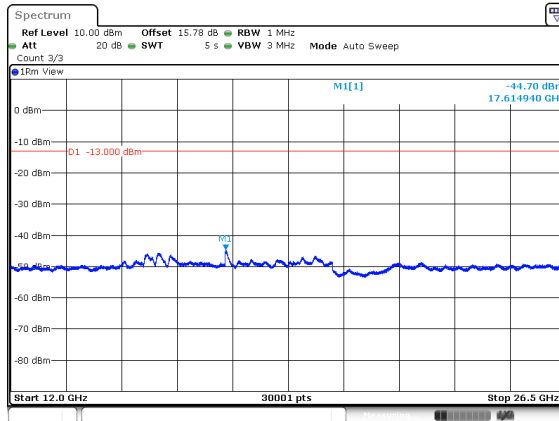
Band66\_1.4MHz\_16QAM\_131979\_6RB#0



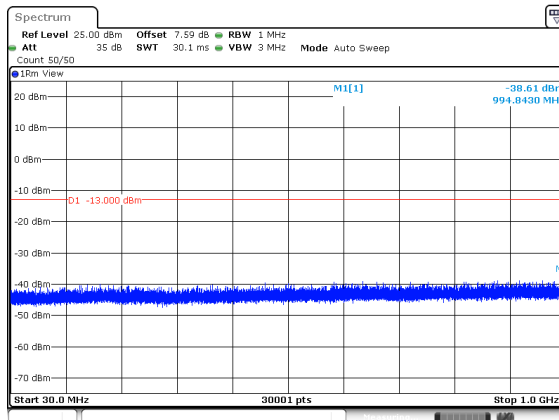
Band66\_1.4MHz\_16QAM\_131979\_6RB#0



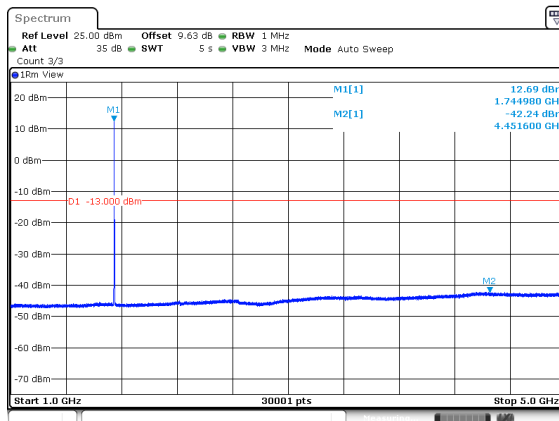
Band66\_1.4MHz\_16QAM\_131979\_6RB#0



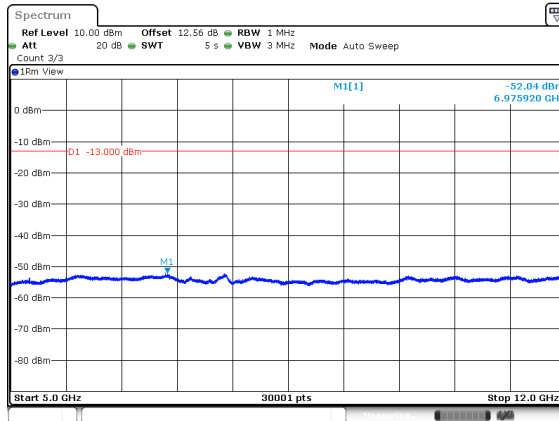
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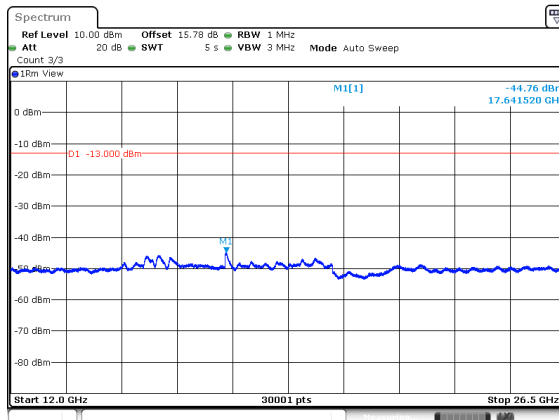
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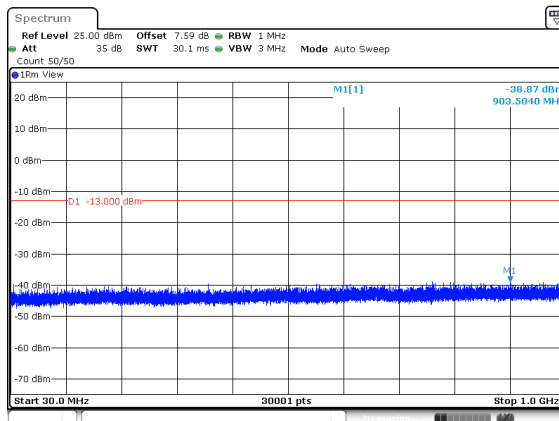
Band66\_1.4MHz\_16QAM\_132322\_6RB#0



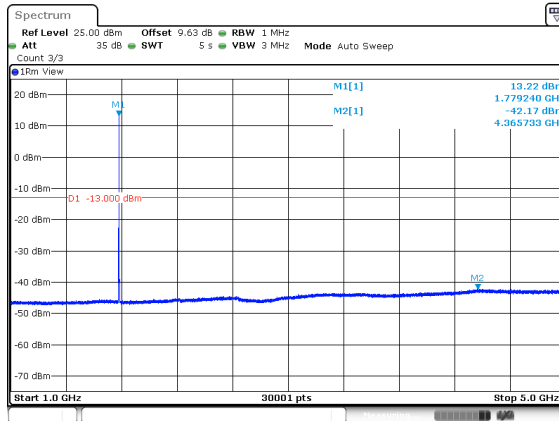
Band66\_1.4MHz\_16QAM\_132322\_6RB#0



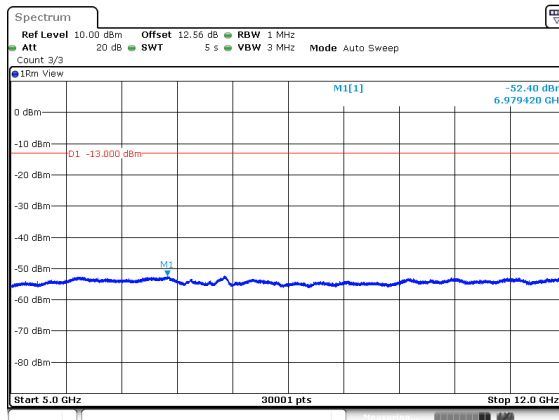
Band66\_1.4MHz\_16QAM\_132665\_6RB#0



Band66\_1.4MHz\_16QAM\_132665\_6RB#0



Band66\_1.4MHz\_16QAM\_132665\_6RB#0



Band66\_1.4MHz\_16QAM\_132665\_6RB#0

