

Report No. : EED32K00246411 Page 1 of 230

TEST REPORT

Product : LTE MODULE

Trade mark : GlocalMe

Model/Type reference : GLMM18A02

Serial Number : N/A

 Report Number
 : EED32K00246411

 FCC ID
 : 2AC88-GLMM18A02

Date of Issue : Jan. 25, 2019

Test Standards47 CFR Part 2
47 CFR Part 27

Test result : PASS

Prepared for:

HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, HongKong

Prepared by:

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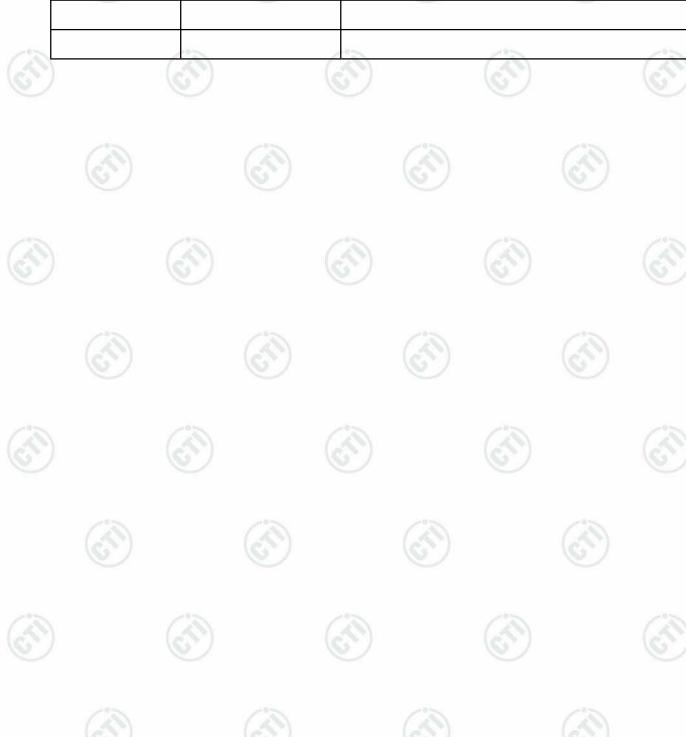






2 Version

Version No.	Date	Description	
00	Jan. 25, 2019	Original	















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3 Test Summary

LTE Band 40					
Test Item	Test Requirement	Test method	Result PASS		
Conducted output power	Part 2.1046(a)/Part 27	TIA-603-E-2016&KDB 971168 D01v03r01			
Effective Radiated Power of Transmitter(ERP)	Part 2.1046(a)/Part 27	TIA-603-E-2016&KDB 971168 D01v03r01	PASS		
Peak-to-Average Ratio	Part 27.50(d)	KDB 971168 D01v03r01	PASS		
99%&26dB Occupied Bandwidth	Part 2.1049(h)	Part 22.917(b) &KDB 971168 D01v03r01	PASS		
Band Edge at antenna terminals	Part 2.1051/Part 27.53	Part 22.917(b) &KDB 971168 D01v03r01	PASS		
Spurious emissions at antenna terminals	Part 2.1051/Part 27.53	TIA-603-E-2016&KDB 971168 D01v03r01	PASS		
Field strength of spurious radiation	Part 2.1053/ Part 2.1057/ Part 27	TIA-603-E-2016&KDB 971168 D01v03r01	PASS		
Frequency stability	Part 2.1055/ Part 27.54	TIA-603-E-2016&KDB 971168 D01v03r01	PASS		

Remark:

The tested samples and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.





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5 Test Requirement

5.1 Test setup5.1.1 For Radiated Emissions test setup

Radiated Emissions setup:

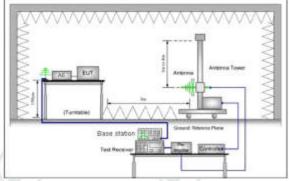


Figure 1.30MHz to 1GHz

Figure 2. above 1GHz

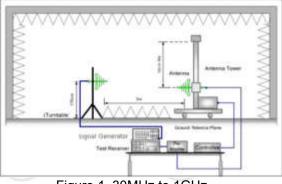


Figure 1. 30MHz to 1GHz

Figure 2. above 1GHz

5.2 Test Environment

Operating Environment:			
Temperature:	23°C		
Humidity:	57 % RH	(0.)	6.
Atmospheric Pressure:	1010mbar		===

5.3 Test Condition

Test channel:

LIE //Car /						
Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)	Number [DL]	Frequency of Downlink(MHz)
	Low	5	38725	2307.5	38725	2307.5
LTEband40	Range	10	N/A	N/A	N/A	N/A
TX:2305–2315 MHz	Mid Range	5/10	38750	2310	38750	2310
RX:2305–2315MHz	High	5	38775	2312.5	38775	2312.5
(3)	Range	10	N/A	N/A	N/A	N/A
(3,2)	Low	5	39175	2352.5	39175	2352.5
LTEband40	Range	10	N/A	N/A	N/A	N/A
TX:2350–2360 MHz	Mid Range	5/10	39200	2355	39200	2355
RX:2350-2360MHz	High	5	39225	2357.5	39225	2357.5
) (Range	10	N/A	N/A	N/A	N/A



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6 General Information

6.1 Client Information

Applicant:	HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED			
Address of Applicant:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, HongKong			
Manufacturer:	HONGKONG UCLOUDLINK NETWORK TECHNOLOGY LIMITED			
Address of Manufacturer:	Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, HongKong			
Factory:	SHENZHEN CHIHANG TECHNOLOGY CO., LTD			
Address of Factory: 1-4/F, Building 5, Detai Industrial Park, Huarong Road, Dalang Street, Longhua, Shenzhen				

6.2 General Description of EUT

Z General Descrip	tion of Eo i	
Product Name:	LTE MODULE	
Model No.(EUT):	GLMM18A02	
Trade mark:	GlocalMe	
EUT Supports Radios application:	4.0 BT Dual mode: 2402MHz to 2480MHz WiFi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz GPS: L1:1559MHz to 1610MHz GSM/GPRS/EGPRS 850: Tx: 824-849MHz, Rx: 869-894MHz GSM/GPRS/EGPRS 1900: Tx: 1850-1910MHz, Rx: 1930-1990MHz WCDMA Band 2: Tx: 1850-1910MHz, Rx: 1930-1990MHz WCDMA Band 4: Tx: 1850-1910MHz, Rx: 2110-2155MHz WCDMA Band 5: Tx: 824- 849MHz, Rx: 869 -894MHz LTE Band 2: Tx: 1850-1910MHz, Rx: 1930-1990MHz LTE Band 4: Tx: 1710-1755 MHz, Rx: 2110-2155 MHz LTE Band 5: Tx: 824-849 MHz, Rx: 869-894MHz LTE Band 7: TX:2500-2570 MHz, Rx: 2620-2690 MHz LTE Band 12: Tx: 699-716 MHz, Rx: 729-746 MHz LTE Band 13: Tx: 777-787 MHz, Rx: 746-756 MHz LTE Band 17: Tx: 704-716 MHz, Rx: 734-746 MHz LTE Band 26: Tx: 814-849 MHz, Rx: 859-894 MHz LTE Band 38: Tx: 2570- 2620MHz, Rx: 2570-2620MHz LTE Band 40: Tx:2305-2315 MHz, Rx:2350-2360MHz LTE Band 41: Tx: 2535-2655 MHz, Rx: 2535 -2655 MHz DC 3.3V	
Firmware version:	GLMM18A01 TSV1.0.000.005.180821 userdebug (manufacturer de	clare)
Hardware version:	M2_VB (manufacturer declare)	6
Sample Received Date:	Sep. 10, 2018	
Sample tested Date:	Sep. 11, 2018 to Dec. 12, 2018	
1.00	71	-

6.3 Product Specification subjective to this standard

Frequency Band:		TE Band 40: TX:2305–2315 MHz, RX:2305–2315MHz TX:2350–2360 MHz, RX:2350–2360MHz				
Modulation Type:	QPSK, 16QAM					
Antenna Type:	External Antenna	7'5	/3			
Antenna Gain:	-0.5dBi	(55)	(6.7)			
Test Voltage:	DC 3.3V					

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6.4 Description of Support Units

The EUT has been tested independently.

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	ltem	Measurement Uncertainty		
1	Radio Frequency	7.9 x 10 ⁻⁸		
2	DE nower conducted	0.46dB (30MHz-1GHz)		
	RF power, conducted	0.55dB (1GHz-18GHz)		
3	Dedicted Spurious emission test	4.3dB (30MHz-1GHz)		
3	Radiated Spurious emission test	4.5dB (1GHz-12.75GHz)		
4	Conduction emission	3.5dB (9kHz to 150kHz)		
4	Conduction emission	3.1dB (150kHz to 30MHz)		
5	Temperature test	0.64°C		
6	Humidity test	3.8%		
7	DC power voltages	0.026%		



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		Communication I	RF test system	l	
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Agilent	E4440A	MY4618564 9	11-13-2017	11-14-2018
Spectrum Analyzer	Agilent	E4440A	MY4618564 9	11-14-2018	11-13-2019
Signal Generator	Agilent	E4438C	MY4509574 4	03-13-2018	03-12-2019
Communication test set	Agilent	E5515C	GB4705053 4	03-16-2018	03-15-2019
Signal Generator	Keysight	E8257D	MY5340110 6	03-13-2018	03-12-2019
Communication test set	R&S	CMW500	152394	03-16-2018	03-15-2019
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398- 002		01-10-2018	01-09-2019
High-pass filter	MICRO- TRONICS	SPA-F-63029-4		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	7	01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	(6,)	01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001		01-10-2018	01-09-2019
DC Power	Keysight	E3642A	MY5442611 2	03-13-2018	03-12-2019
DC Power	Keysight	E3642A	MY5442611 5	03-13-2018	03-12-2019
PC-2	Lenovo	R4960d		01-10-2018	01-09-2019
PC-3	Lenovo	R4960d		01-10-2018	01-09-2019
RF control unit	JS Tonscend	JS0806-1	158060004	03-13-2018	03-12-2019
DC power Box	JS Tonscend	JS0806-4	158060007	03-13-2018	03-12-2019
LTE Automatic test software	JS Tonscend	JS1120-1		03-30-2018	03-29-2019
WCDMA Automatic test software	JS Tonscend	JS1120-3		03-30-2018	03-29-2019
GSM Automatic test software	JS Tonscend	JS1120-3		03-30-2018	03-29-2019
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-11-2017	10-12-2018
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019





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	SIVI	Semi/full-anech		Cal data	Cal Dua data
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		06-04-2016	06-03-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	10-27-2017	10-28-2018
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	10-28-2018	10-27-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-30-2018	07-29-2019
Microwave Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Microwave Preamplifier	Tonscend	EMC051845 SE	980380	01-19-2018	01-18-2019
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS- LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	6042	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041	06-05-2018	06-04-2021
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	05-11-2018	05-10-2019
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Receiver	R&S	ESCI7	100938-003	11-22-2017	11-23-2018
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/107 11112	/ *	01-10-2018	01-09-2019
LISN	schwarzbeck	NNBM8125	81251547	05-11-2018	05-10-2019
LISN	schwarzbeck	NNBM8125	81251548	05-11-2018	05-10-2019
Signal Generator	Agilent	E4438C	MY4509574 4	03-13-2018	03-12-2019
Signal Generator	Keysight	E8257D	MY5340110 6	03-13-2018	03-12-2019
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-11-2017	10-12-2018
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB4705053 4	03-16-2018	03-15-2019
Cable line	Fulai(7M)	SF106	5219/6A	01-10-2018	01-09-2019
Cable line	Fulai(6M)	SF106	5220/6A	01-10-2018	01-09-2019
Cable line	Fulai(3M)	SF106	5216/6A	01-10-2018	01-09-2019
Cable line	Fulai(3M)	SF106	5217/6A	01-10-2018	01-09-2019
Communication test set	R&S	CMW500	104466	02-05-2018	02-04-2019
High-pass filter	Sinoscite	FL3CX03WG 18NM12- 0398-002		01-10-2018	01-09-2019
High-pass filter	MICRO- TRONICS	SPA-F- 63029-4		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX01CA0 9CL12-0395- 001		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX01CA0 8CL12-0393- 001		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX02CA0 4CL12-0396- 002		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX02CA0 3CL12-0394- 001		01-10-2018	01-09-2019

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8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title			
1	PART 22	PART 22 – PUBLIC MOBILE SERVICES			
2	PART 24	Subpart H – Cellular Radiotelephone Service PART 24 – PERSONAL COMMUNICATIONS SERVICES			
	Subpart E – Broadband PCS				
3	PART 27	PART 27 – MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES Subpart C – Technical Standards			
3	PART 2	Frequency allocations and radio treaty matters; general rules and regulations			
4	TIA-603-E-2016	Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards			
5	KDB971168 D01	KDB971168 D01 Power Meas License Digital Systems v03r01			

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note	
Part 2.1046(a)/Part 27	TIA-603-E-2016& KDB 971168 D01v03r01	Conducted output power	PASS	Appendix A)	
Part 2.1046(a)/Part 27	TIA-603-E-2016& KDB 971168 D01v03r01	Effective Radiated Power of Transmitter(ERP)	PASS	Appendix A)	
Part 27.50(d)	KDB 971168 D01v03r01	Peak-to-Average Ratio	PASS	Appendix B)	
Part 2.1049(h)	Part 22.917(b) &KDB 971168 D01v03r01	99% &26dBOccupied Bandwidth	PASS	Appendix C)	
Part 2.1051/Part 27.53	Part 22.917(b) &KDB 971168 D01v03r01	Band Edge at antenna terminals	PASS	Appendix D)	
Part 2.1051/Part 27.53	TIA-603-E-2016& KDB 971168 D01v03r01	Spurious emissions at antenna terminals	PASS	Appendix E)	
Part 2.1055/ Part 27.54	TIA-603-E-2016& KDB 971168 D01v03r01	Frequency stability	PASS	Appendix F)	
Part 2.1053/ Part 2.1057/ Part 27	TIA-603-E-2016& KDB 971168 D01v03r01	Field strength of spurious radiation	PASS	Appendix G)	















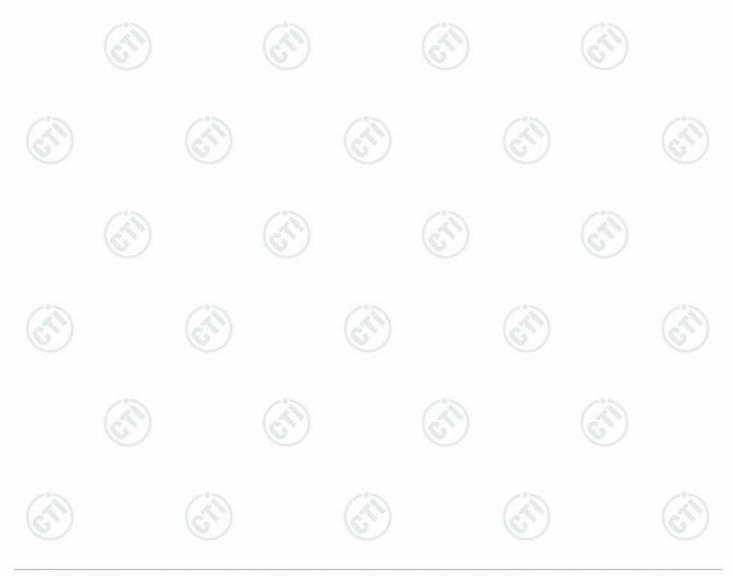
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Appendix A): Conducted Output Power and Effective (Isotropic) Radiated Power

			(B. 75a				
Description of the Conducted Output Power Measurement and ERP/EIRP Measurement:	A system simulator was used to establish communication with the EUT. Its parameter were set to force the EUT transmitting at maximum output power. The measured point the radio frequency on the transmitter output terminals shall be reported. According to KDB 412172 D01 Power Approach EIRP = PT + GT – Lc, ERP = EIRP - 2.15, where PT = transmitter output power in dBm GT = gain of the transmitting antenna in dBi Lc = signal attenuation in the connecting cable between the transmitter and antenna in dB 1. The transmitter output port was connected to the system simulator.						
Measurement Procedure:	Set EUT at Select lower	maximum power t	hrough the syste hest channels fo	m simulator. or each band and dif			
Limit:	Mode Limit	LTE band 40 24dBm)	cii	(cit)		





Test Result $G_T - L_C = -0.5 dB$

(2305 - 2315MHz)

Channel Bandwidth: 5 MHz



			Channe	el Bandwidth: 5 MHz		
Modulation	Channel	RB Conf	figuration Offset	Average Power [dBm]	E.i.r.p [dBm]	Verdict
7	/	S 1/	0	21.66	21.16	PASS
		1	12	21.86	21.36	PASS
		1	24	21.88	21.38	PASS
	LCH	12	0	20.35	19.85	PASS
		12	6	20.43	19.93	PASS
		12	13	20.39	19.89	PASS
		25	0	20.46	19.96	PASS
QPSK	(1	0	21.46	20.96	PASS
		4	12	21.52	21.02	PASS
		1	24	21.56	21.06	PASS
	MCH	12	0	20.20	19.70	PASS
	(8)	12	6	20.22	19.72	PASS
		12	13	20.20	19.70	PASS
		25	0	20.23	19.73	PASS
	/	C 31	0	21.48	20.98	PASS
	(1	12	21.67	21.17	PASS
		1	24	21.68	21.18	PASS
	нсн	12	0	20.19	19.69	PASS
	0	12	6	20.19	19.69	PASS
		12	13	20.18	19.68	PASS
		25	0	20.15	19.65	PASS
		1	0	21.55	21.05	PASS
	(1	12	21.70	21.20	PASS
	//	21	24	20.90	20.40	PASS
	LCH	12	0	20.43	19.93	PASS
		12	6	20.41	19.91	PASS
16QAM	(4)	12	13	20.39	19.89	PASS
	-/-	25	0	20.31	19.81	PASS
		1	0	20.75	20.25	PASS
	MCH	41	12	20.96	20.46	PASS
	MCH	1)	24	20.58	20.08	PASS
	1	12	0	20.16	19.66	PASS



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		12	6	20.15	19.65	PASS
		12	13	20.13	19.63	PASS
	(610)	25	0	20.41	19.91	PASS
		1	0	20.86	20.36	PASS
		1	12	20.93	20.43	PASS
	9	1	24	20.88	20.38	PASS
1)	нсн	12	0	20.15	19.65	PASS
		12	6	20.16	19.66	PASS
		12	13	20.15	19.65	PASS
		25	0	20.14	19.64	PASS

Channel Bandwidth: 10 MHz

			Channel	Bandwidth: 10 MHz		
Modulation	Channel	RB Con Size	figuration Offset	Average Power [dBm]	E.i.r.p [dBm]	Verdict
		1	0	21.84	21.34	PASS
		1	24	21.98	21.48	PASS
	1	1	49	21.82	21.32	PASS
QPSK	мсн	25	0	20.51	20.01	PASS
		25	12	20.50	20.00	PASS
		25	25	20.49	19.99	PASS
		50	0	20.52	20.02	PASS
	\	21	0	21.53	21.03	PASS
		1	24	21.68	21.18	PASS
		1	49	21.60	21.10	PASS
16QAM	мсн	25	0	20.48	19.98	PASS
		25	12	20.47	19.97	PASS
		25	25	20.58	20.08	PASS
		50	0	20.55	20.05	PASS





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(2350 - 2360MHz)

Channel Bandwidth: 5 MHz

			Channe	el Bandwidth: 5 MHz		
Modulation	Channel	RB Con	figuration Offset	Average Power [dBm]	E.i.r.p [dBm]	Verdict
9	7	1	0	21.54	21.04	PASS
	(1	12	21.83	21.33	PASS
		1	24	21.68	21.18	PASS
	LCH	12	0	20.28	19.78	PASS
	(1)	12	6	20.32	19.82	PASS
		12	13	20.36	19.86	PASS
		25	0	20.39	19.89	PASS
		1	0	21.52	21.02	PASS
	(1	12	21.74	21.24	PASS
	\	1	24	21.81	21.31	PASS
QPSK	MCH	12	0	20.43	19.93	PASS
	2	12	6	20.43	19.93	PASS
	(2)	12	13	20.43	19.93	PASS
		25	0	20.41	19.91	PASS
		1	0	21.60	21.10	PASS
	,	1	12	21.79	21.29	PASS
	(1	24	21.76	21.26	PASS
	НСН	12	0	20.38	19.88	PASS
		12	6	20.38	19.88	PASS
	To the	12	13	20.37	19.87	PASS
(6)	7	25	0	20.39	19.89	PASS
		1	0	21.28	20.78	PASS
		1	12	21.31	20.81	PASS
	(1	24	20.98	20.48	PASS
	LCH	12	0	20.41	19.91	PASS
		12	6	20.40	19.90	PASS
400444		12	13	20.40	19.90	PASS
16QAM	(1)	25	0	20.37	19.87	PASS
		1	0	21.38	20.88	PASS
		1	12	21.37	20.87	PASS
	мсн	1	24	21.35	20.85	PASS
	(12	0	20.43	19.93	PASS
	1	12	6	20.43	19.93	PASS

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		12	13	20.42	19.92	PASS
	/2	25	0	20.35	19.85	PASS
	(36)	1	0	20.64	20.14	PASS
		1	12	20.83	20.33	PASS
		1	24	20.61	20.11	PASS
	нсн	12	0	20.41	19.91	PASS
9		12	6	20.40	19.90	PASS
		12	13	20.40	19.90	PASS
		25	0	20.33	19.83	PASS

Channel Bandwidth: 10 MHz

			Channe	l Bandwidth: 10 MHz		
Modulation	Channel	RB Con Size	figuration Offset	Average Power [dBm]	E.i.r.p [dBm]	Verdict
)	(1	0	21.85	21.35	PASS
		1	24	21.85	21.35	PASS
		1	49	21.87	21.37	PASS
QPSK	МСН	25	0	20.38	19.88	PASS
		25	12	20.38	19.88	PASS
		25	25	20.43	19.93	PASS
		50	0	20.38	19.88	PASS
	(1	0	21.38	20.88	PASS
	/	1	24	21.46	20.96	PASS
		1	49	21.49	20.99	PASS
16QAM	МСН	25	0	20.37	19.87	PASS
	(12)	25	12	20.37	19.87	PASS
	-/-	25	25	20.44	19.94	PASS
		50	0	20.32	19.82	PASS





Appendix B): Peak-to-Average Ratio

Test Result

(2305 - 2315MHz)

Channel Bandwidth: 5 MHz

			Channel E	andwidth: 5 MHz		
		RB Configuration		Peak-to-Average Ratio	Limit	
Modulation	Channel	Size	Offset	[dB]	[dB]	Verdict
		1	0	5.48	<13	PASS
		1	12	5.76	<13	PASS
	6	1	24	5.53	<13	PASS
	LCH	12	0	6.17	<13	PASS
		12	6	6.05	<13	PASS
		12	13	6.12	<13	PASS
	/	25	0	6.33	<13	PASS
	(1	0	5.05	<13	PASS
		1	12	5.07	<13	PASS
		1	24	6.16	<13	PASS
QPSK	MCH	12	0	6.2	<13	PASS
		12	6	6.3	<13	PASS
		12	13	6.25	<13	PASS
		25	0	6.27	<13	PASS
	/	1	0	6.84	<13	PASS
	\	1	12	5.23	<13	PASS
		1	24	6.09	<13	PASS
	HCH	12	0	6.19	<13	PASS
	(4)	12	6	6.23	<13	PASS
100	/	12	13	6.2	<13	PASS
		25	0	6.16	<13	PASS
		-121	0	6.69	<13	PASS
	(1	12	6.59	<13	PASS
		1	24	6.04	<13	PASS
	LCH	12	0	6.15	<13	PASS
	0	12	6	6.19	<13	PASS
16QAM	(2)	12	13	6.22	<13	PASS
		25	0	6.96	<13	PASS
		1	0	7.01	<13	PASS
	MCH	1	12	6.62	<13	PASS
		0 1	24	6.08	<13	PASS

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		12	0	5.9	<13	PASS
		12	6	6.23	<13	PASS
	(6/2)	12	13	6.18	<13	PASS
		25	0	6.82	<13	PASS
		1	0	6.93	<13	PASS
			12	6.12	<13	PASS
9		(3)	24	6.87	<13	PASS
	нсн	12	0	6.17	<13	PASS
		12	6	5.68	<13	PASS
		12	13	6.16	<13	PASS
		25	0	6.88	<13	PASS

Channel Bandwidth: 10 MHz

			Channel B	andwidth: 10 MHz		
		RB Con	figuration	Peak-to-Average Ratio	Limit	
Modulation	Channel	Size	Offset	[dB]	[dB]	Verdict
		1	0	5.39	<13	PASS
6		1	24	6.1	<13	PASS
10		1	49	5.14	<13	PASS
QPSK	мсн	25	0	5.49	<13	PASS
		25	12	5.89	<13	PASS
	(25	25	5.7	<13	PASS
	- 3	50	0	5.73	<13	PASS
		1	0	6.12	<13	PASS
	-	1	24	6.91	<13	PASS
(6	(5)	1	49	6.06	<13	PASS
16QAM	мсн	25	0	5.93	<13	PASS
		25	12	5.9	<13	PASS
:		25	25	5.7	<13	PASS
(2)		50	0	6.66	<13	PASS



















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(2350- - 2360MHz) Channel Bandwidth: 5 MHz

			Channel E	Bandwidth: 5 MHz		
Madulatian	Chamal	RB Con	figuration	Peak-to-Average Ratio	Limit	\/awdiat
Modulation	Channel	Size	Offset	[dB]	[dB]	Verdict
9		1	0	6.2	<13	PASS
/		1	12	6.18	<13	PASS
		1	24	6.12	<13	PASS
	LCH	12	0	6.36	<13	PASS
(2		12	6	6.34	<13	PASS
(0)		12	13	6.38	<13	PASS
		25	0	6.34	<13	PASS
		1	0	5.95	<13	PASS
)		1	12	5.99	<13	PASS
		1	24	5.74	<13	PASS
QPSK	MCH	12	0	6.39	<13	PASS
		12	6	6.44	<13	PASS
(6		12	13	6.45	<13	PASS
		25	0	6.5	<13	PASS
		1	0	6.14	<13	PASS
2		1	12	5.92	<13	PASS
)		1	24	6.15	<13	PASS
	HCH	12	0	6.42	<13	PASS
		12	6	6.39	<13	PASS
1		12	13	6.42	<13	PASS
(6		25	0	6.41	<13	PASS
		1	0	6.41	<13	PASS
		1	12	6.56	<13	PASS
9		1	24	6.79	<13	PASS
/	LCH	12	0	6.29	<13	PASS
		12	6	6.37	<13	PASS
		12	13	6.03	<13	PASS
16QAM	(4)	25	0	7.06	<13	PASS
6		1	0	7.15	<13	PASS
		1	12	7.11	<13	PASS
	MCH	1	24	7	<13	PASS
)		12	0	6.35	<13	PASS
		12	6	6.43	<13	PASS

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		12	13	6.45	<13	PASS
	12	25	0	6.73	<13	PASS
	(40)	1	0	6.61	<13	PASS
	нсн	1	12	6.8	<13	PASS
		1	24	6.18	<13	PASS
		12	0	6.44	<13	PASS
9		12	6	6.44	<13	PASS
		12	13	6.45	<13	PASS
		25	0	7.09	<13	PASS

Channel Bandwidth: 10 MHz

	1		Channel B	andwidth: 10 MHz		
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	
		Size	Offset	[dB]	[dB]	Verdict
	мсн	1	0	5.56	<13	PASS
		1	24	6.07	<13	PASS
		1	49	5.65	<13	PASS
QPSK		25	0	6.05	<13	PASS
		25	12	6.05	<13	PASS
		25	25	5.95	<13	PASS
		50	0	5.86	<13	PASS
	мсн	_(1)	0	5.87	<13	PASS
		9/	24	6.46	<13	PASS
		1	49	6.61	<13	PASS
16QAM		25	0	6.04	<13	PASS
		25	12	6.08	<13	PASS
		25	25	5.91	<13	PASS
		50	0	6.9	<13	PASS















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Test Graphs

(2305 - 2315MHz)

Channel Bandwidth: 5 MHz





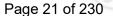










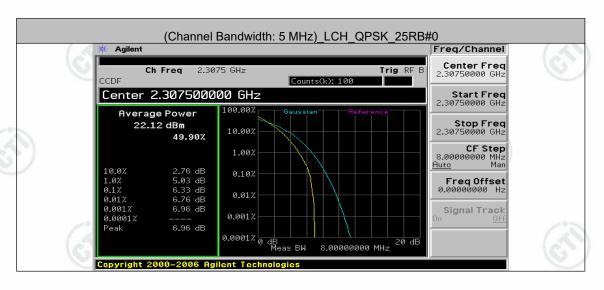








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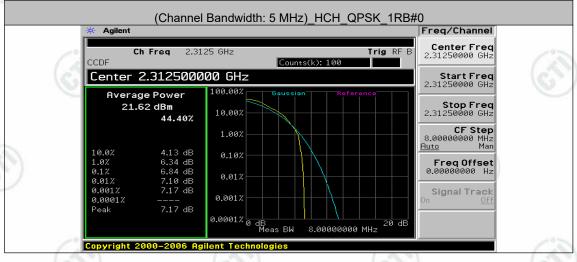
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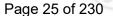
















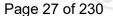








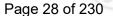










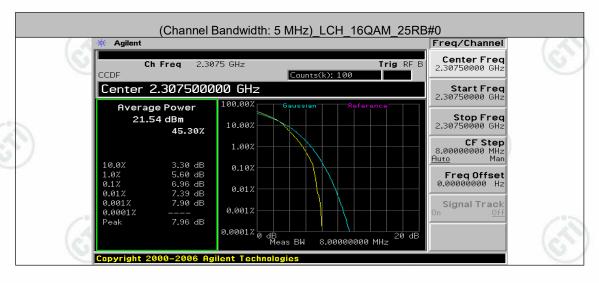








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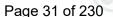


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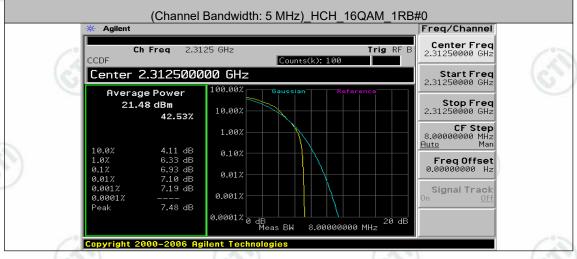




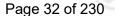


























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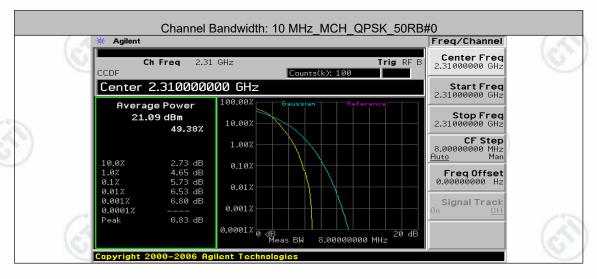








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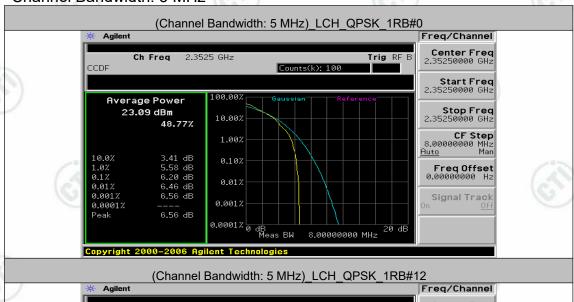


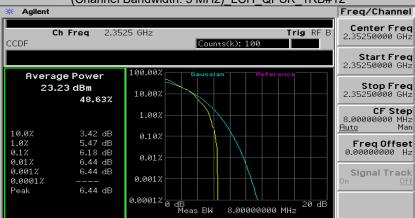


(2350 - 2360MHz)

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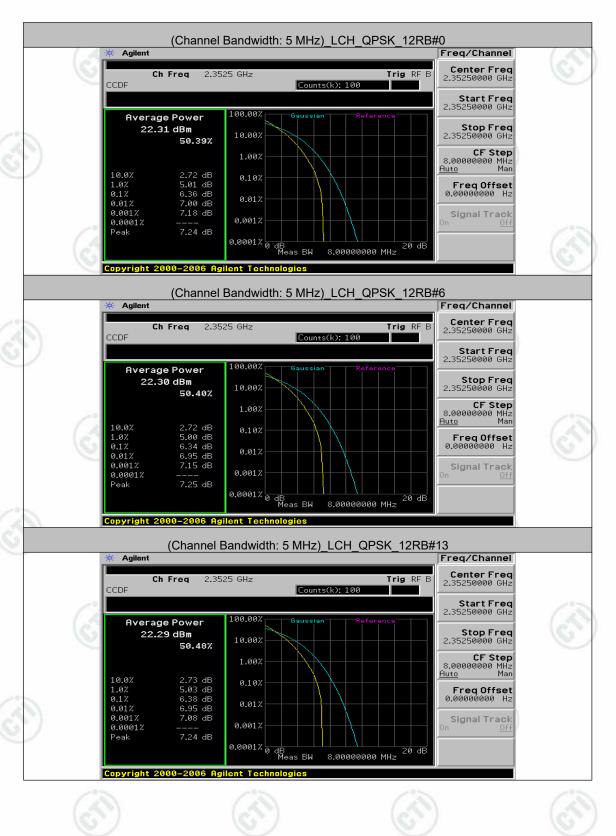








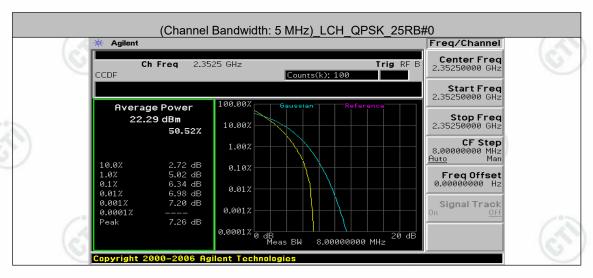
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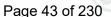


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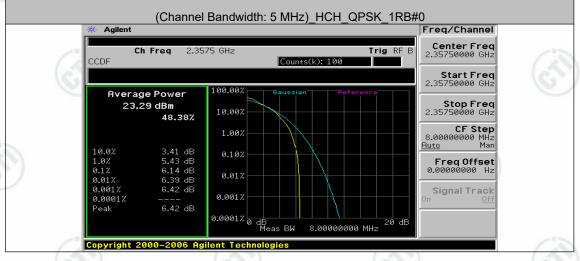












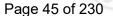


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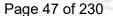


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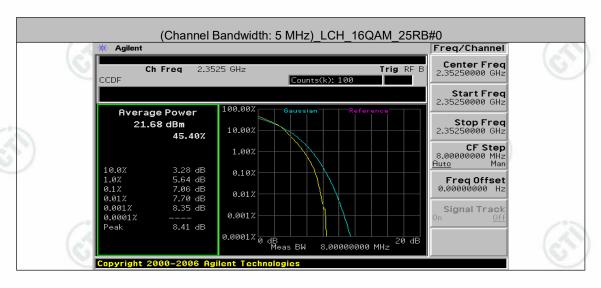








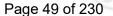
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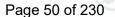




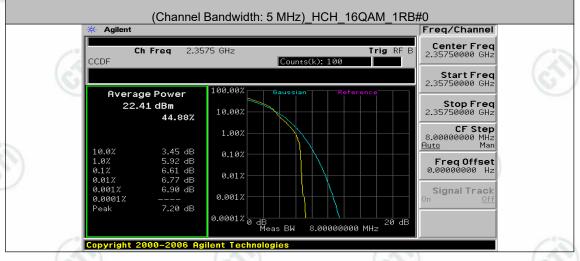






















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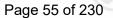


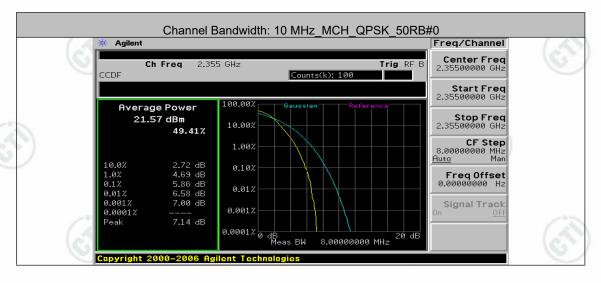
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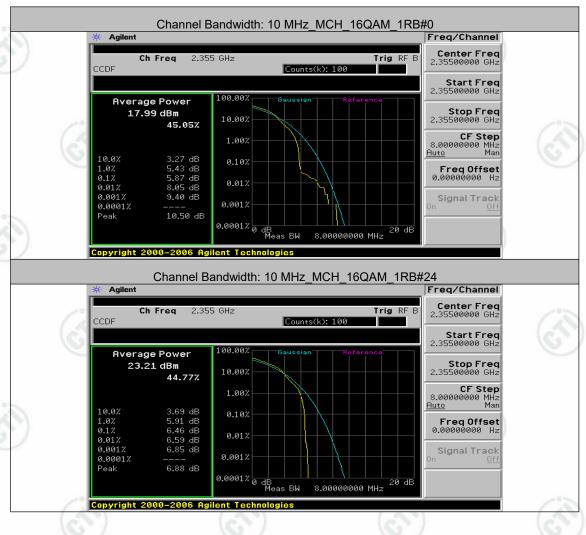


















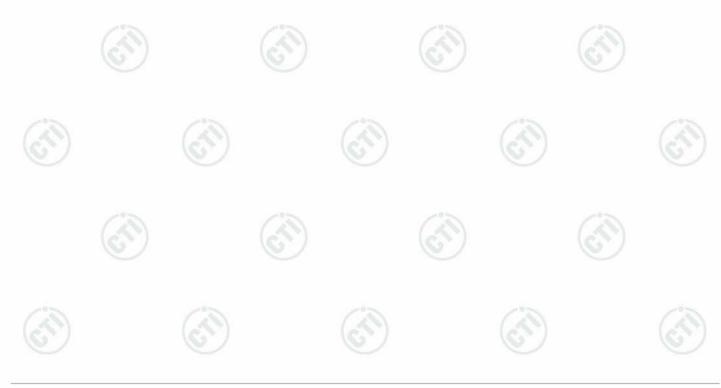






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Appendix C): 26dB Bandwidth and Occupied Bandwidth

Test Result

(2305 - 2315MHz)

Channel Bandwidth: 5 MHz

			Channe	l Bandwidth: 5 MHz			
	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth		
Modulation		Size	Offset	(MHz)	(MHz)	Verdict	
	LCH	25	0	4.4587	4.998	PASS	
QPSK	MCH	25	0	4.4722	4.956	PASS	
	HCH	25	0	4.4652	5.023	PASS	
16QAM	LCH	25	0	4.4673	5.042	PASS	
	MCH	25	0	4.4707	5.007	PASS	
	HCH	25	0	4.4739	5.043	PASS	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth		
Modulation		Size	Offset	(MHz)	(MHz)	Verdict	
QPSK	LCH	50	0	N/A	N/A	PASS	
	MCH	50	0	8.9374	9.821	PASS	
	HCH	50	0	N/A	N/A	PASS	
	LCH	50	0	N/A	N/A	PASS	
16QAM	MCH	50	0	8.9480	9.926	PASS	
	НСН	50	0	N/A	N/A	PASS	

(2350 - 2360MHz)

Channel Bandwidth: 5 MHz

			Channel	Bandwidth: 15 MHz		
Modulation	Channel	RB Con	figuration Offset	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	25	0	4.4664	5.028	PASS
	MCH	25	0	4.4559	5.033	PASS
	НСН	25	0	4.4673	5.036	PASS
16QAM	LCH	25	0	4.4629	5.015	PASS
	мсн	25	0	4.4572	4.903	PASS
	HCH	25	0	4.4657	4.952	PASS







Channel Bandwidth: 10 MHz

	No.		and the		A District	
			Channel	Bandwidth: 15 MHz		_
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	
		Size	Offset	(MHz)	(MHz)	Verdict
QPSK	LCH	50	0	N/A	N/A	PASS
	МСН	50	0	8.9441	9.753	PASS
	нсн	50	0	N/A	N/A	PASS
	LCH	50	0	N/A	N/A	PASS
16QAM	МСН	50	0	8.9435	9.899	PASS
(0)	нсн	50	0	N/A	N/A	PASS



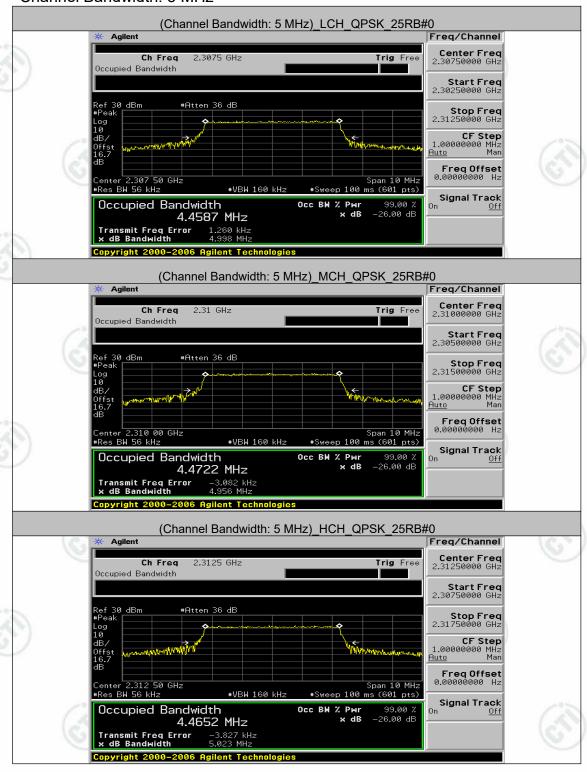


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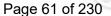
Test Graphs

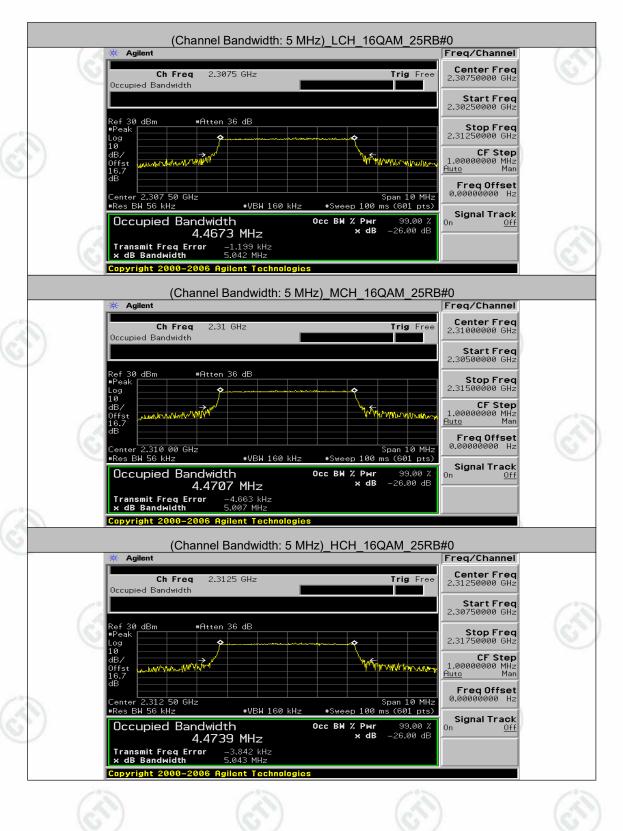
(2305 - 2315MHz)

Channel Bandwidth: 5 MHz







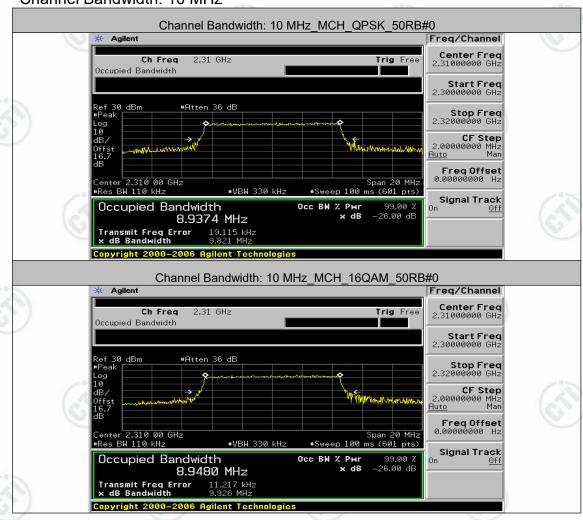






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Channel Bandwidth: 10 MHz



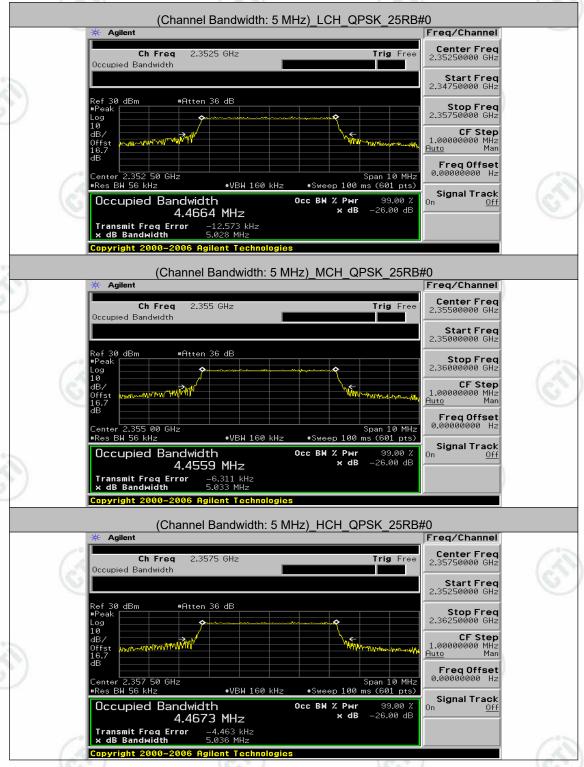




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(2305 - 2315MHz)

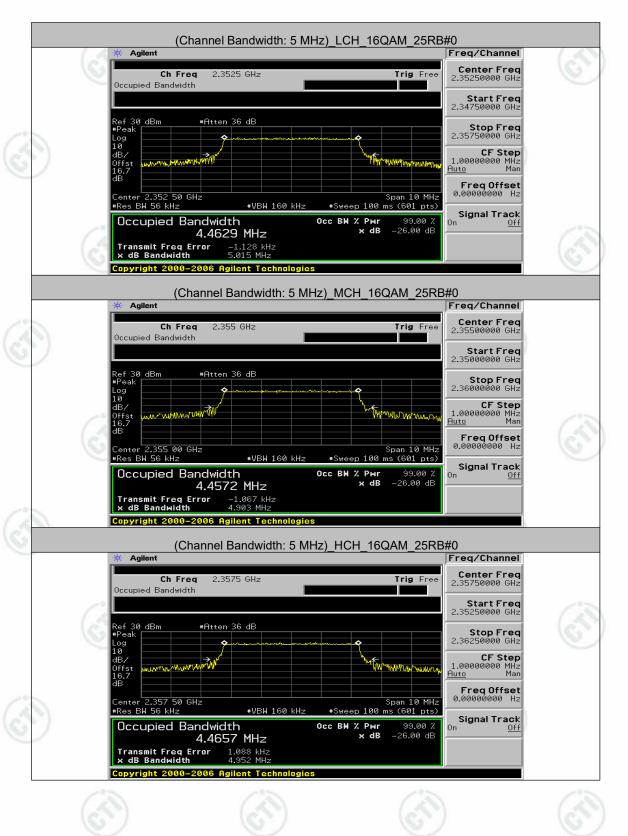
Channel Bandwidth: 5 MHz







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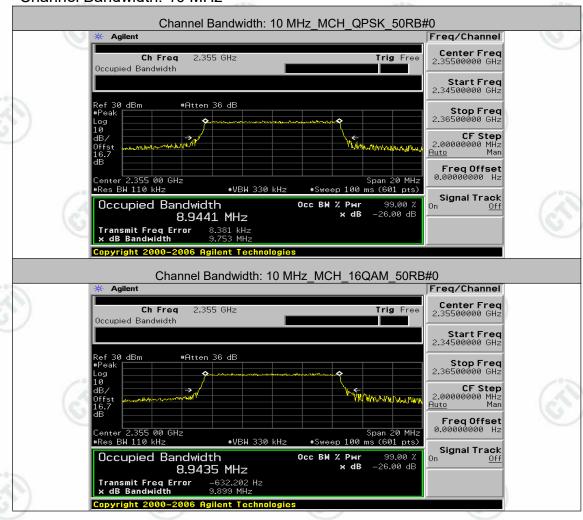


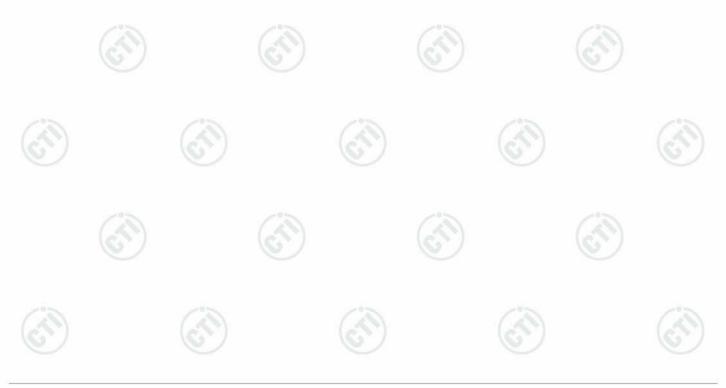




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Channel Bandwidth: 10 MHz





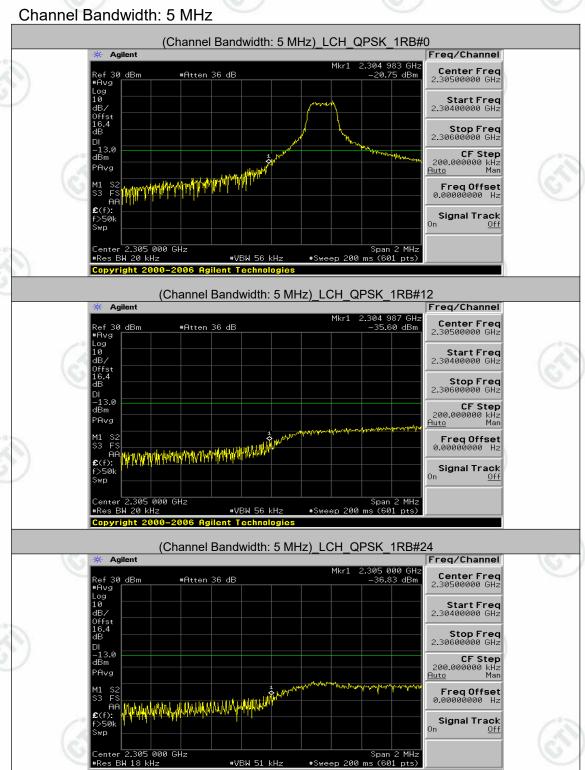


Report No. : EED32K00246411 Appendix D): Band Edge

Test Graphs

(2305 - 2315MHz)

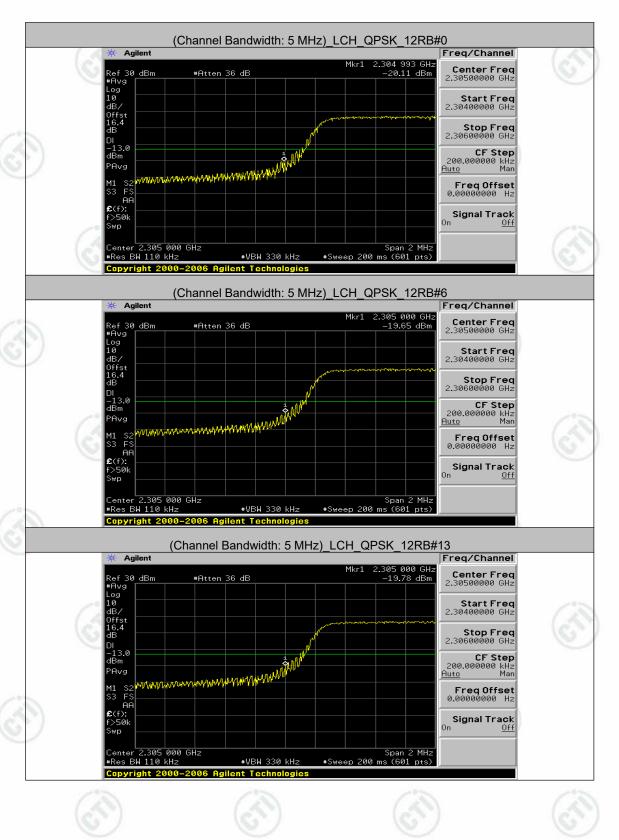








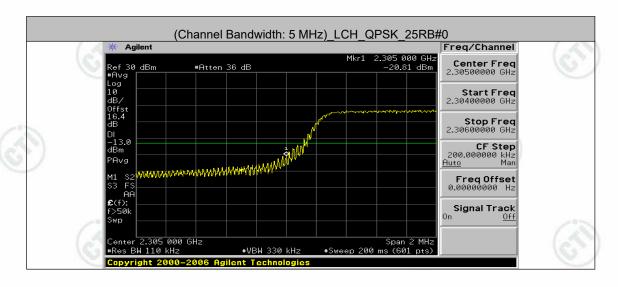
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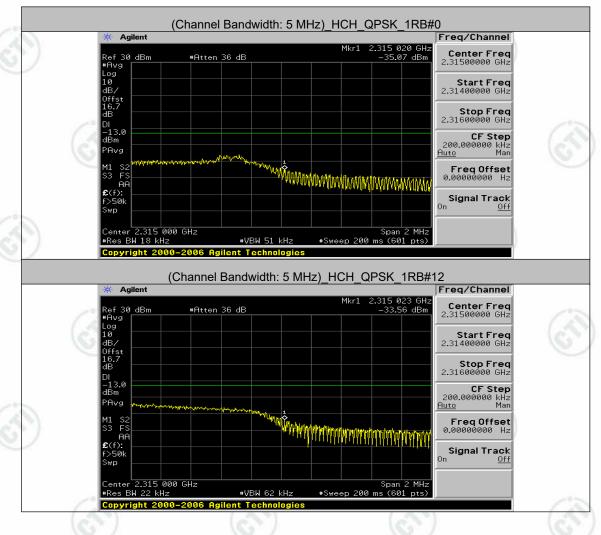




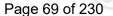


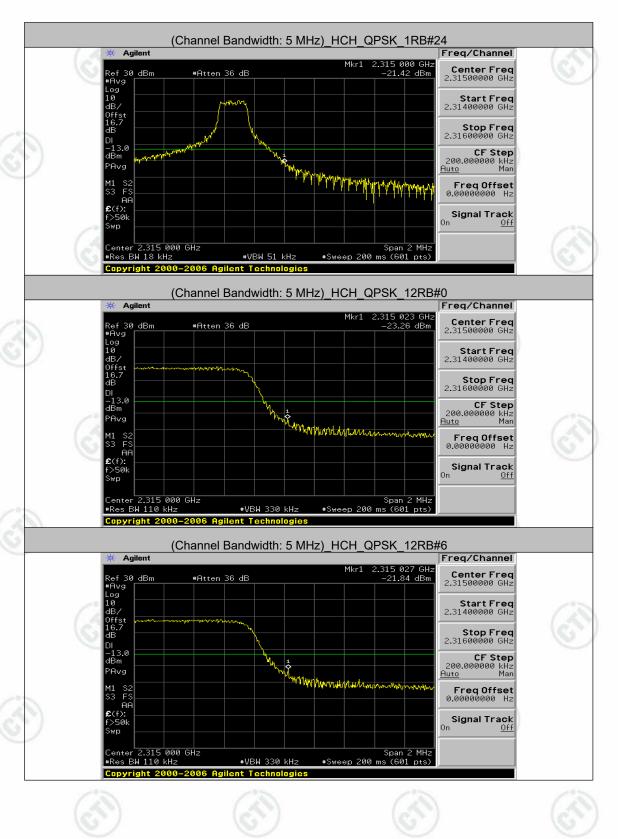
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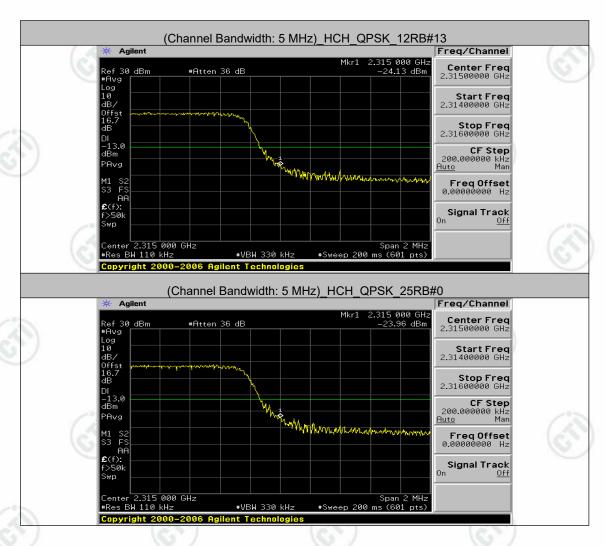


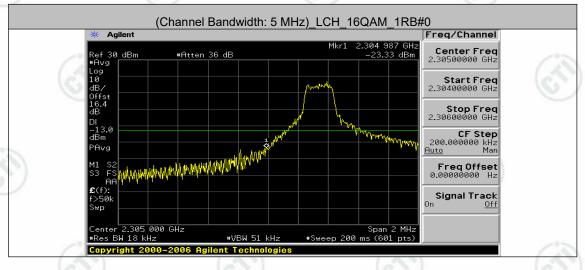




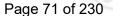


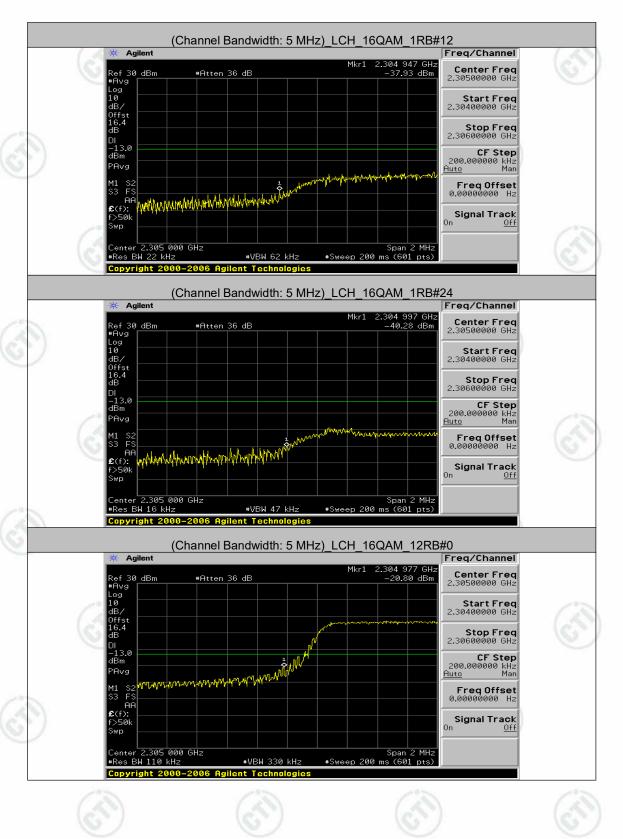
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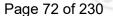


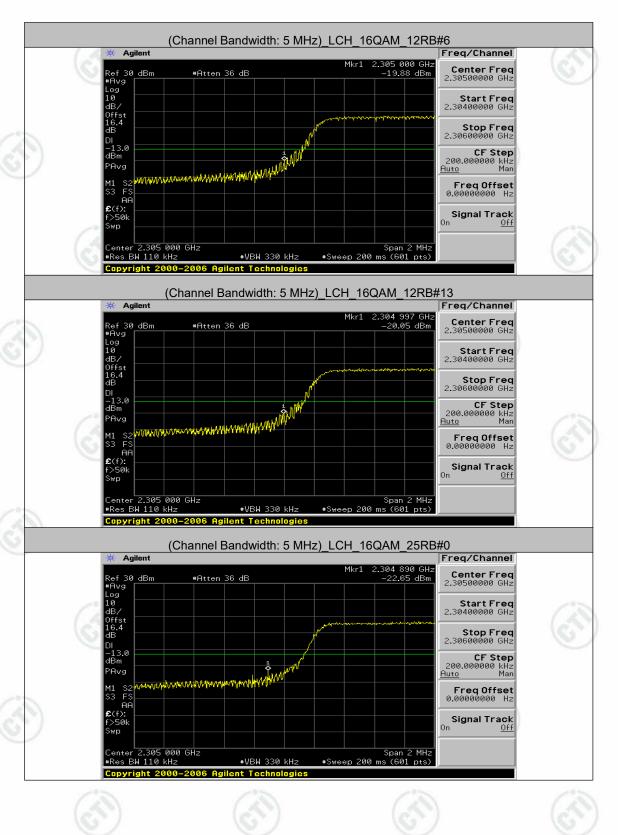






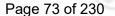


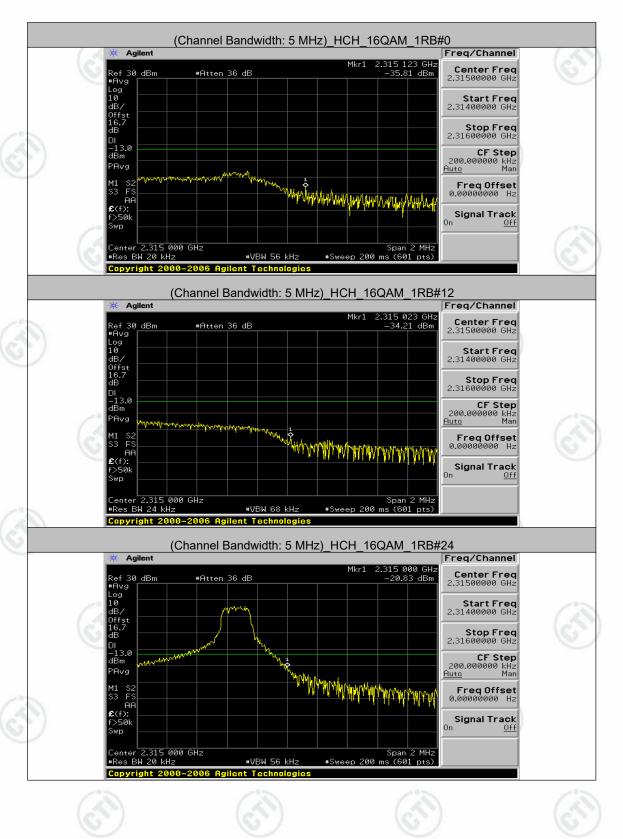








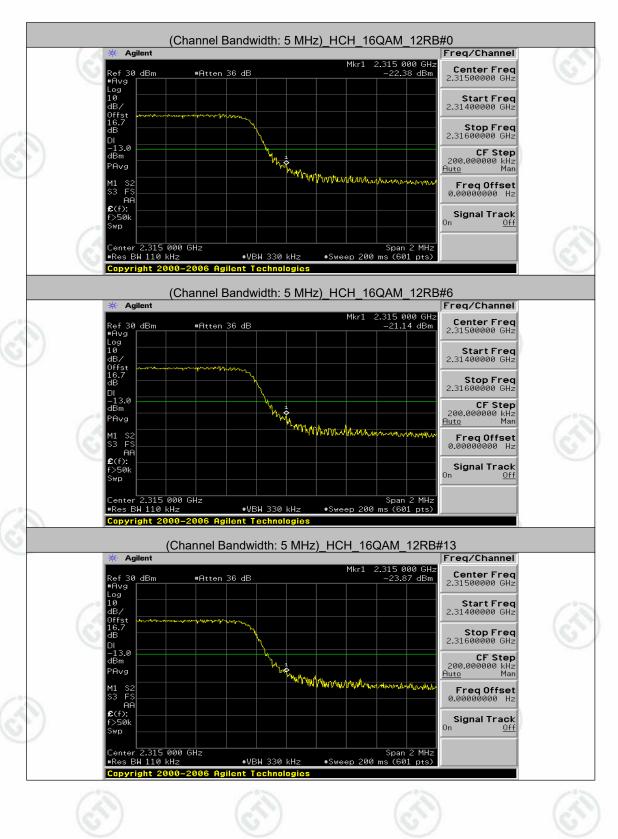






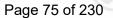


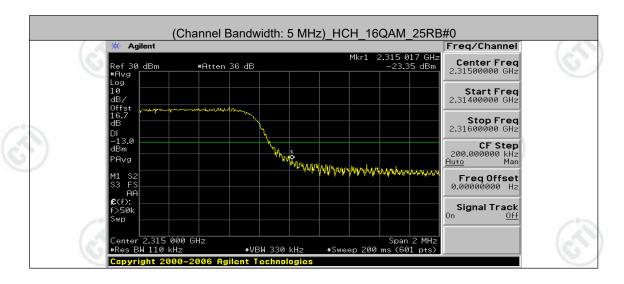




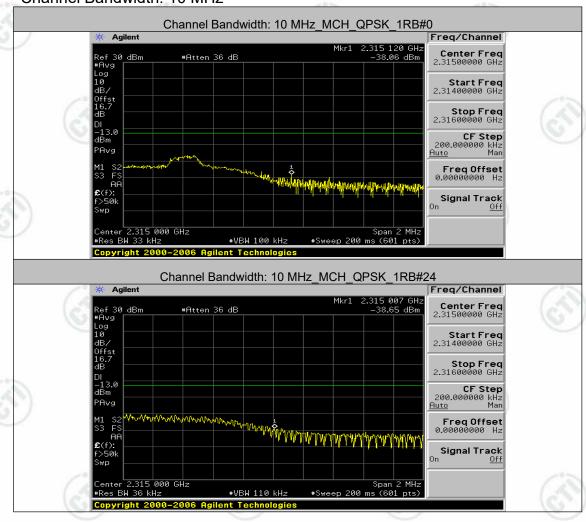








Channel Bandwidth: 10 MHz







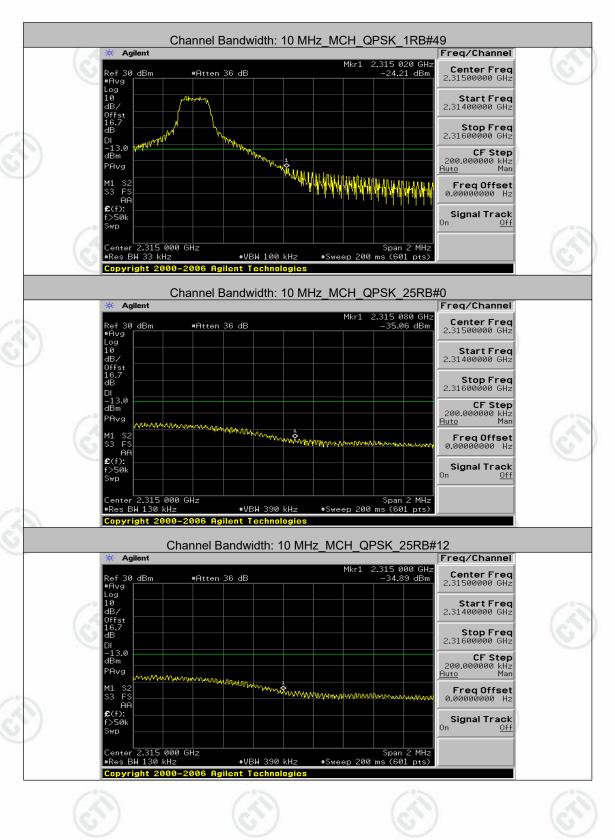






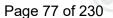


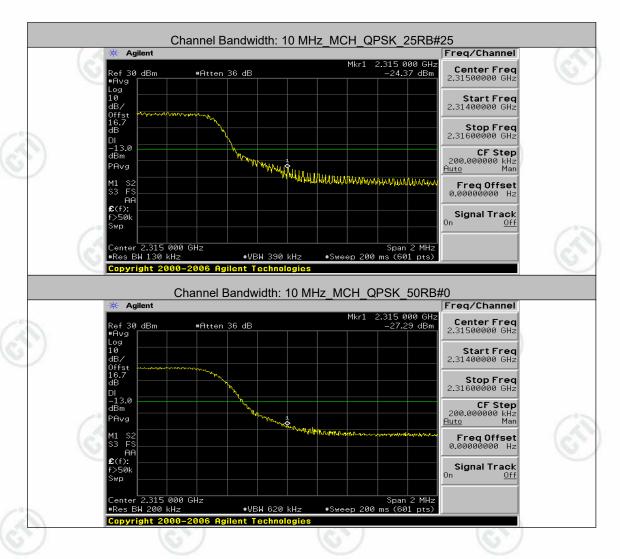
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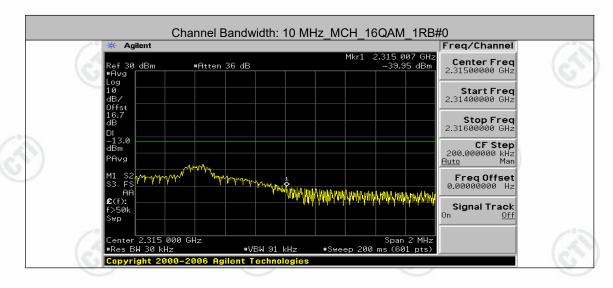














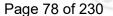


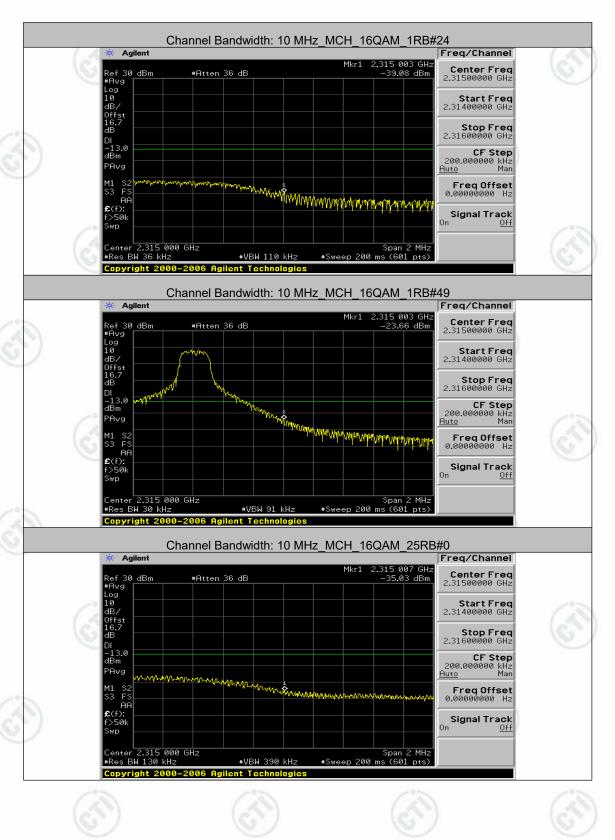








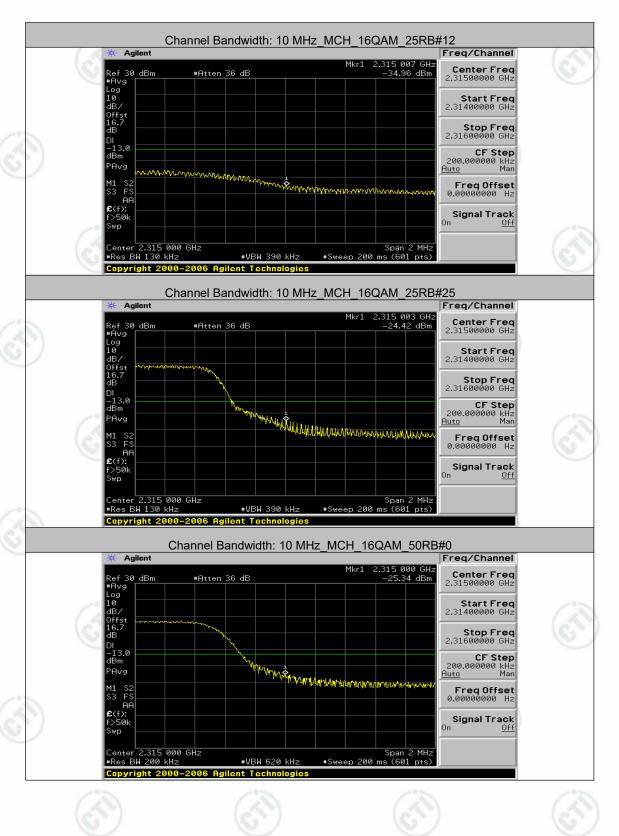






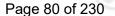


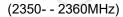
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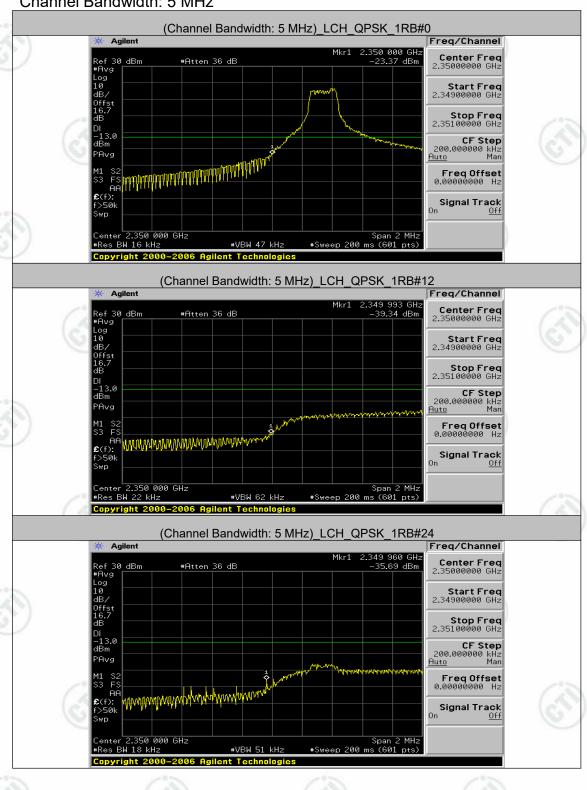




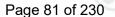


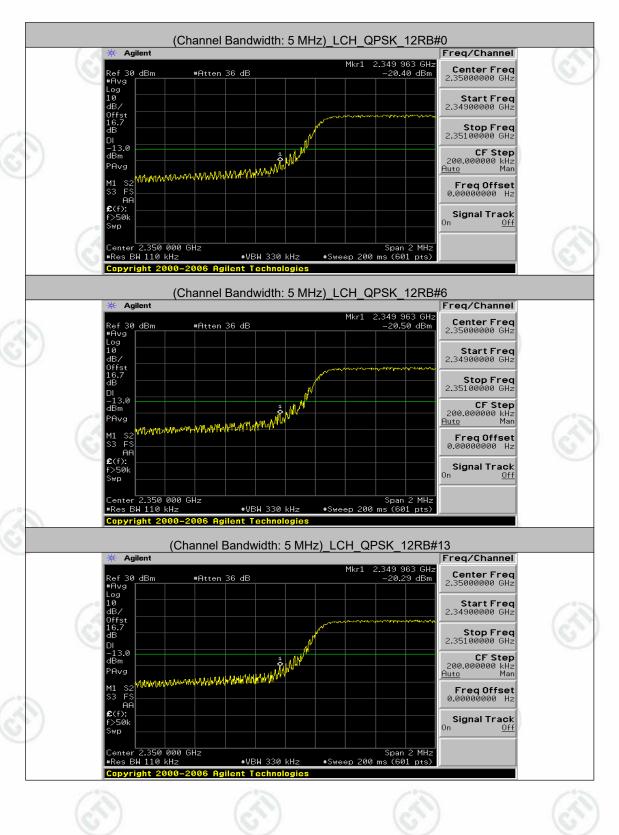


Channel Bandwidth: 5 MHz





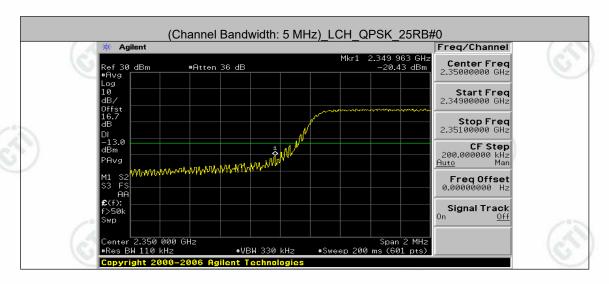


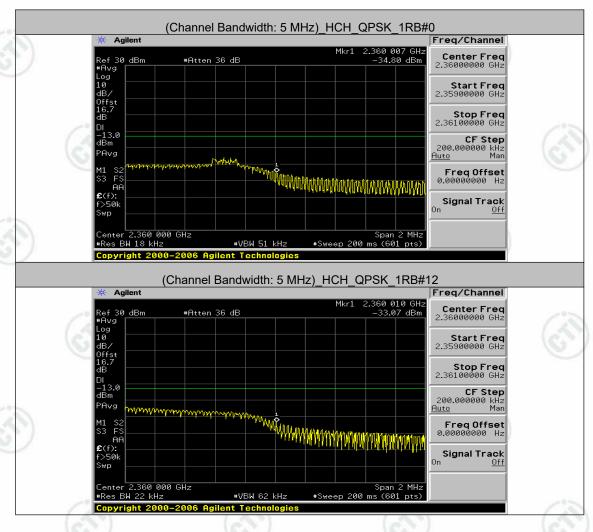






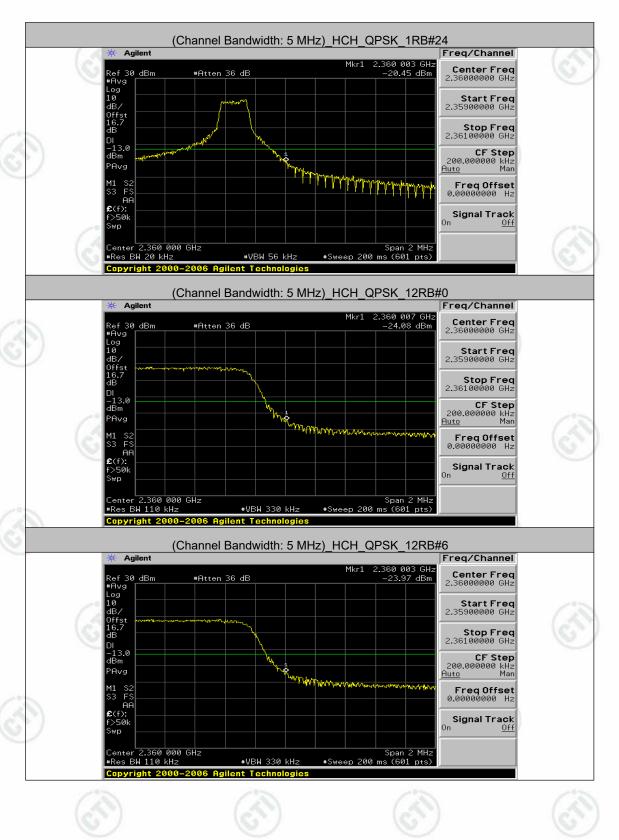
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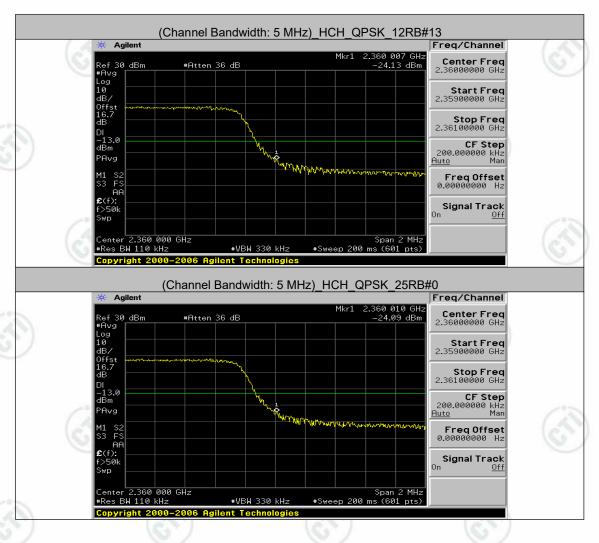
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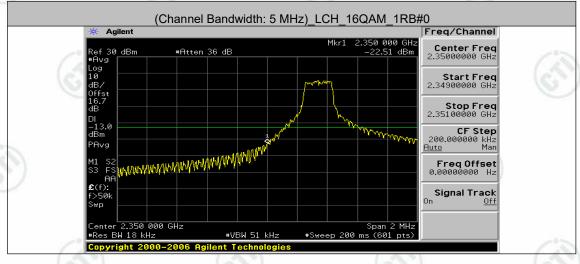






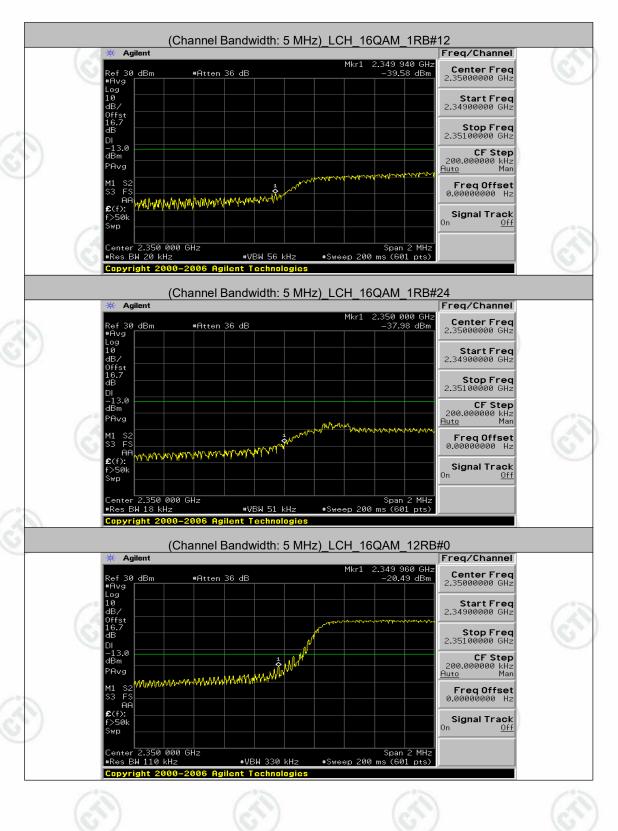
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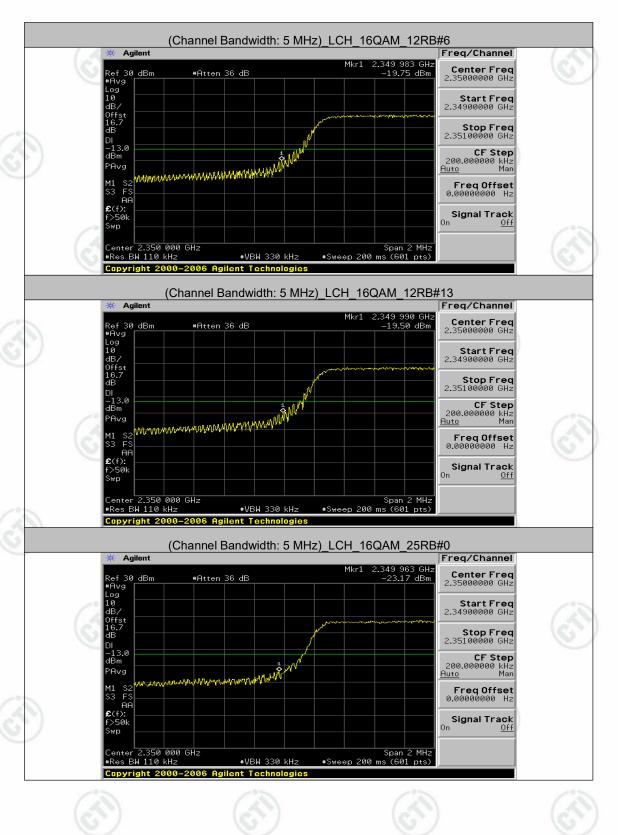
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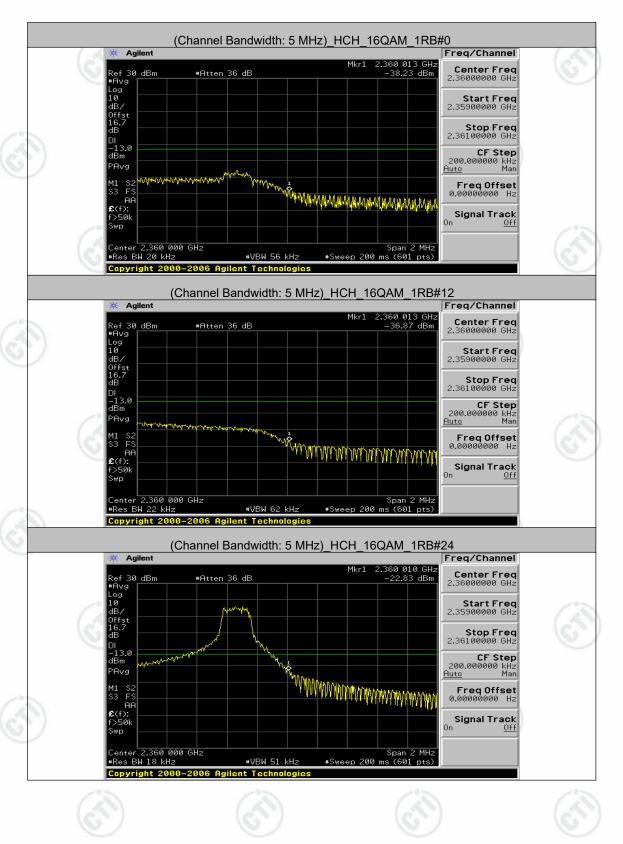
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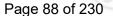


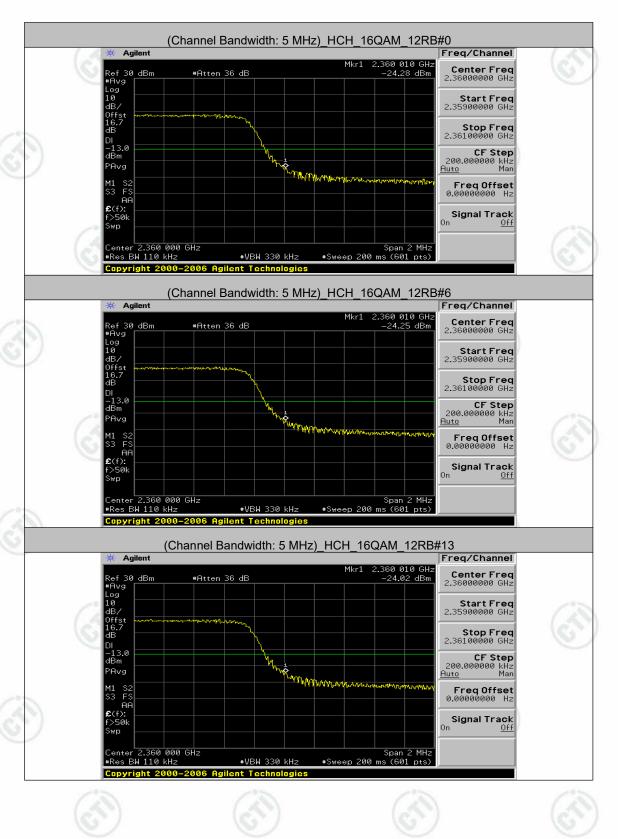






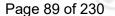


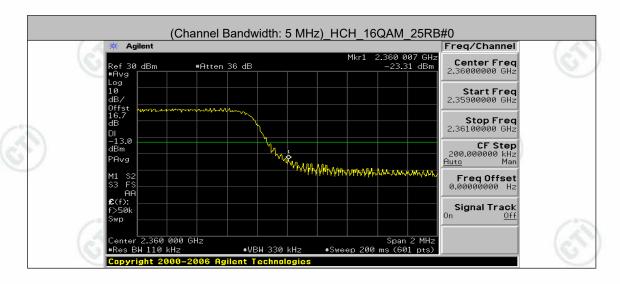




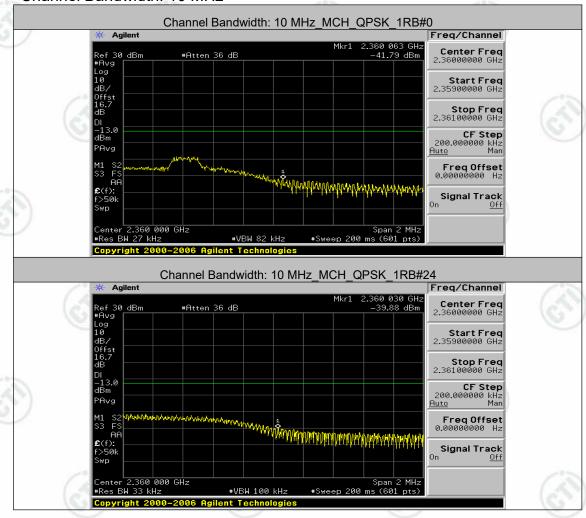








Channel Bandwidth: 10 MHz





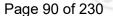


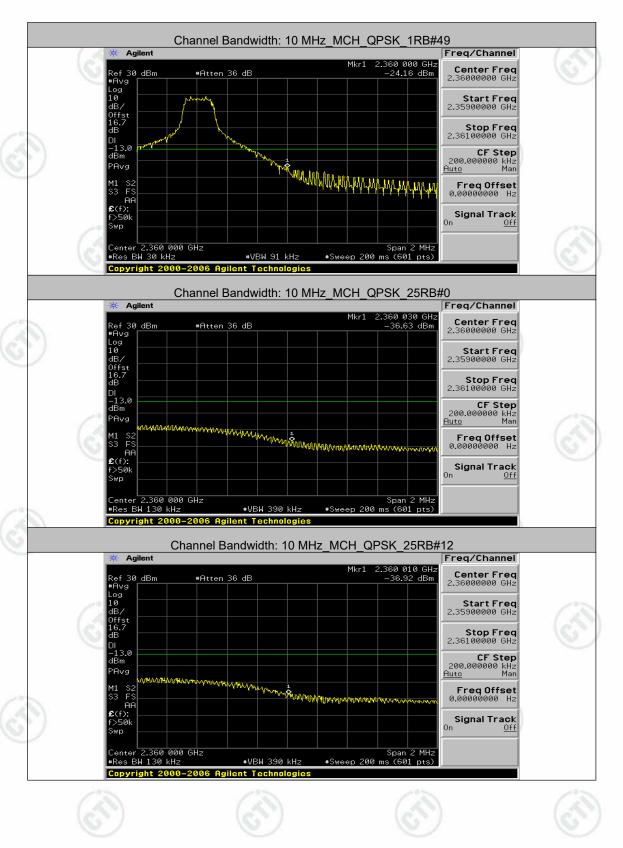








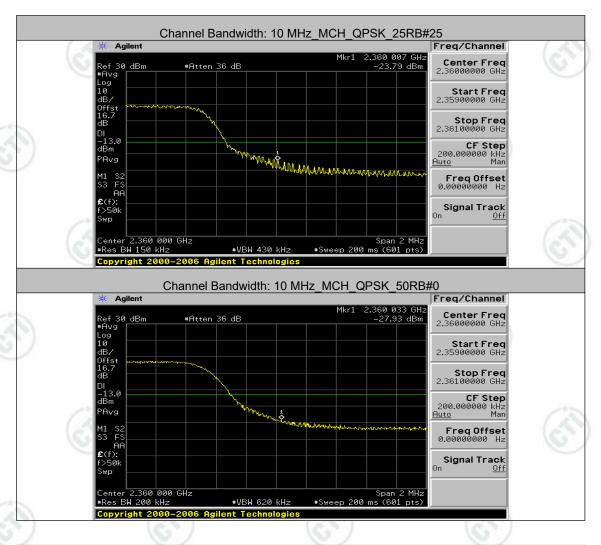


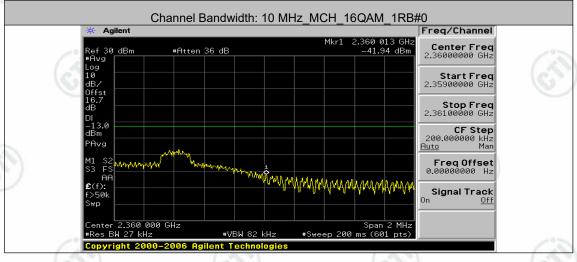






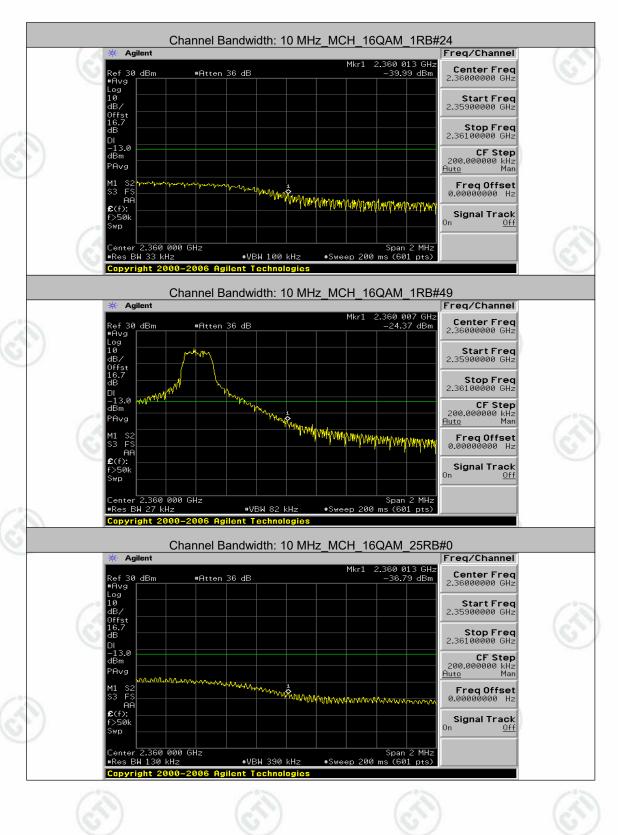
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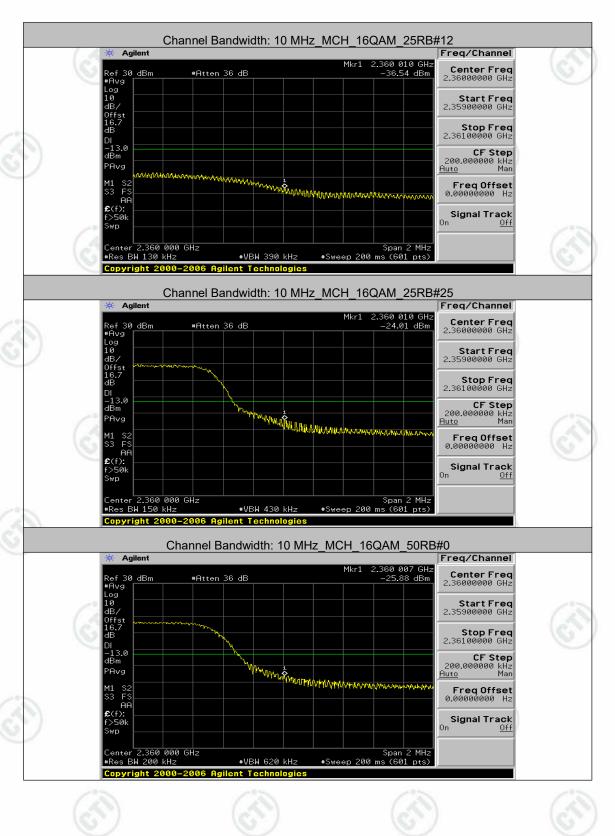
















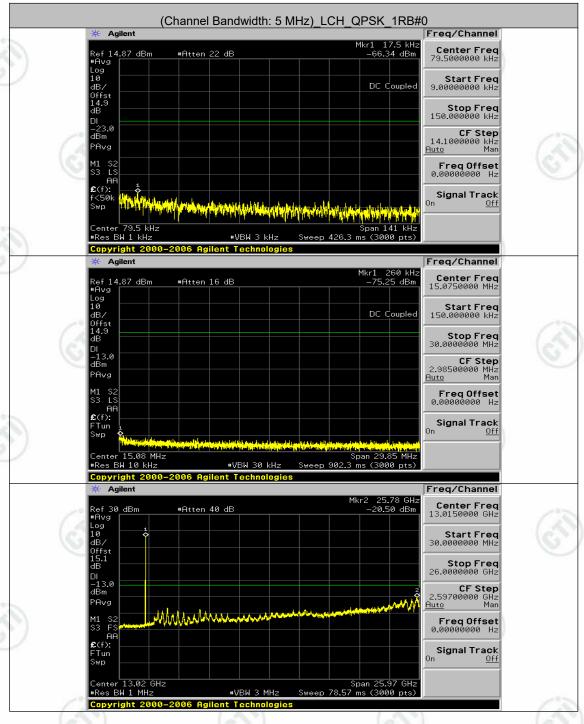
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Appendix E): Conducted Spurious Emission

Test Graphs

(2305 - 2315MHz)

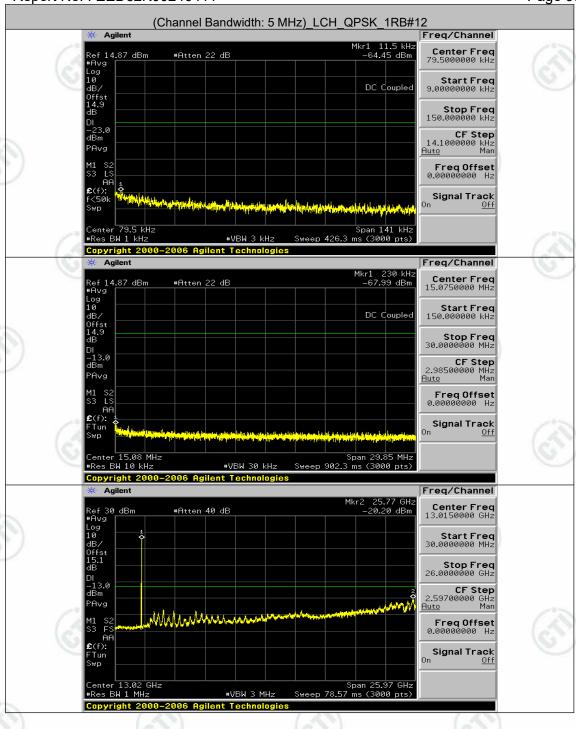
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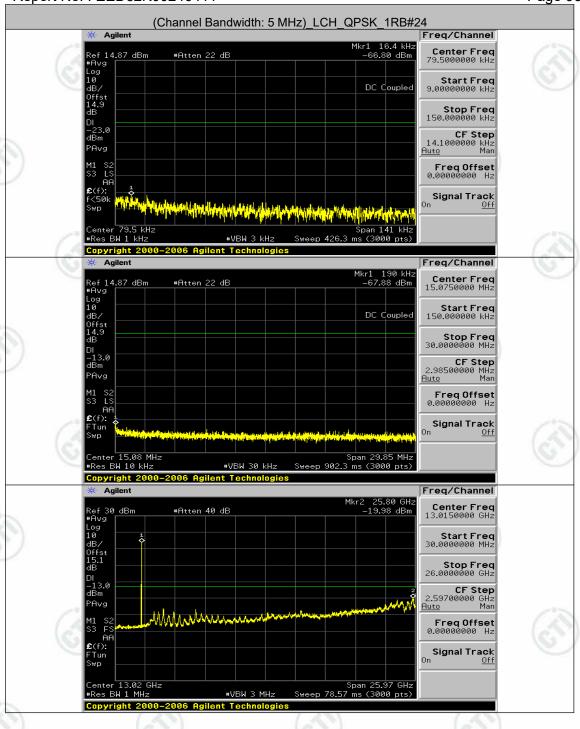
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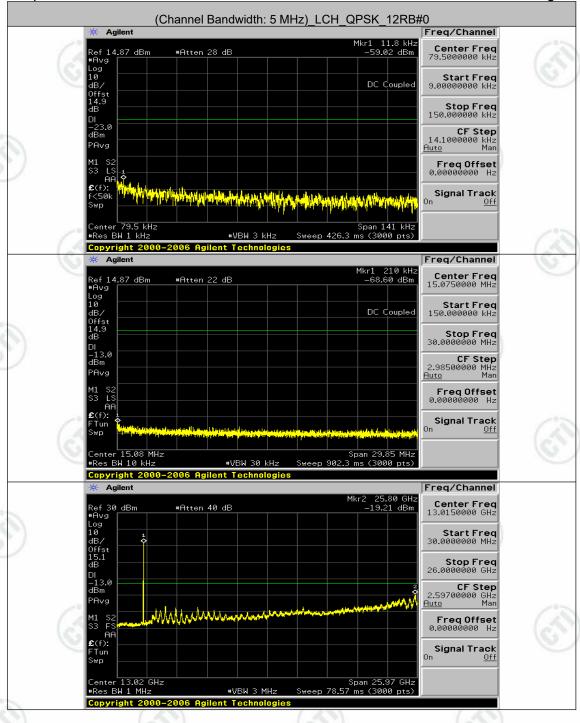
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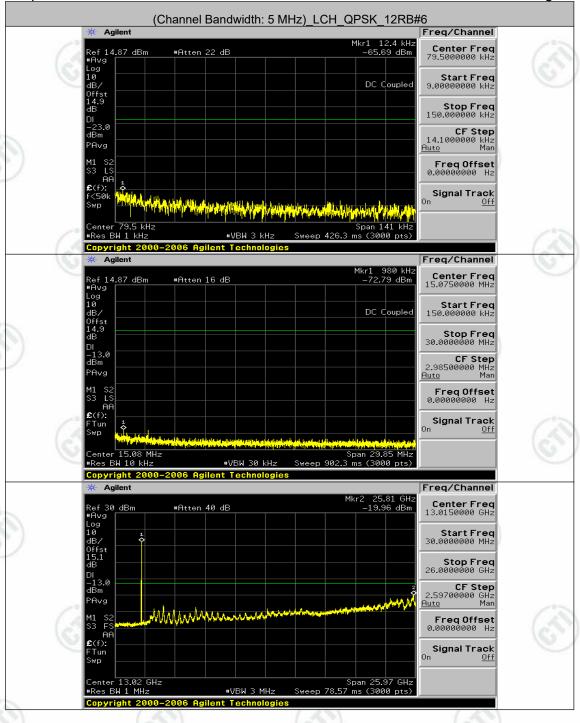
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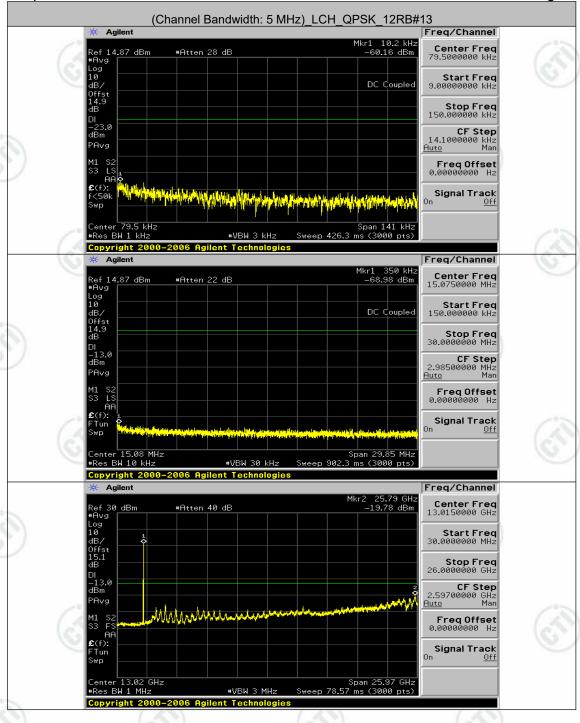
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