



Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.81	PASS
		1	12	22.88	PASS
		1	24	22.74	PASS
		12	0	21.89	PASS
		12	6	21.88	PASS
		12	13	21.82	PASS
		25	0	21.92	PASS
	MCH	1	0	22.95	PASS
		1	12	22.75	PASS
		1	24	22.89	PASS
		12	0	21.92	PASS
		12	6	21.96	PASS
		12	13	21.91	PASS
		25	0	21.9	PASS
	HCH	1	0	22.9	PASS
		1	12	22.96	PASS
		1	24	22.84	PASS
		12	0	21.96	PASS
		12	6	21.89	PASS
		12	13	21.89	PASS
		25	0	21.88	PASS
16QAM	LCH	1	0	22.13	PASS
		1	12	21.84	PASS
		1	24	22.31	PASS
		12	0	20.92	PASS
		12	6	20.76	PASS
		12	13	20.9	PASS
		25	0	20.94	PASS
	MCH	1	0	22.34	PASS
		1	12	22.22	PASS
		1	24	22.06	PASS
		12	0	20.96	PASS
		12	6	21.1	PASS



		12	13	20.88	PASS
		25	0	20.96	PASS
	HCH	1	0	22.14	PASS
		1	12	21.88	PASS
		1	24	22.5	PASS
		12	0	21.02	PASS
		12	6	20.78	PASS
		12	13	20.92	PASS
		25	0	20.93	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	22.97	PASS
		1	24	22.95	PASS
		1	49	22.72	PASS
		25	0	21.99	PASS
		25	12	21.93	PASS
		25	25	21.91	PASS
		50	0	21.96	PASS
16QAM	MCH	1	0	22.18	PASS
		1	24	22.49	PASS
		1	49	22.46	PASS
		25	0	20.98	PASS
		25	12	20.91	PASS
		25	25	20.86	PASS
		50	0	20.92	PASS



Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	4.79	<13	PASS
16QAM	MCH	1	0	5.52	<13	PASS

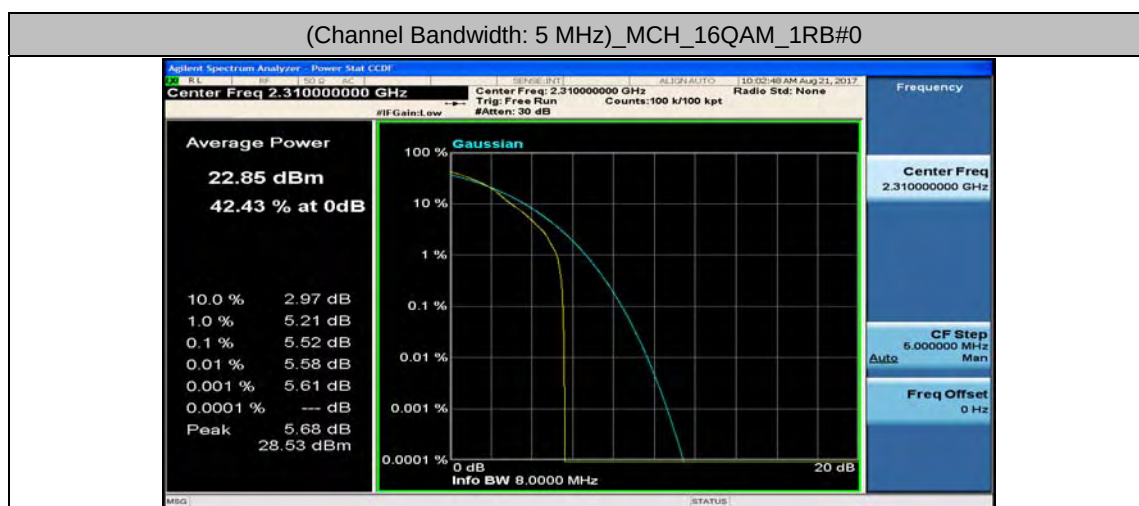
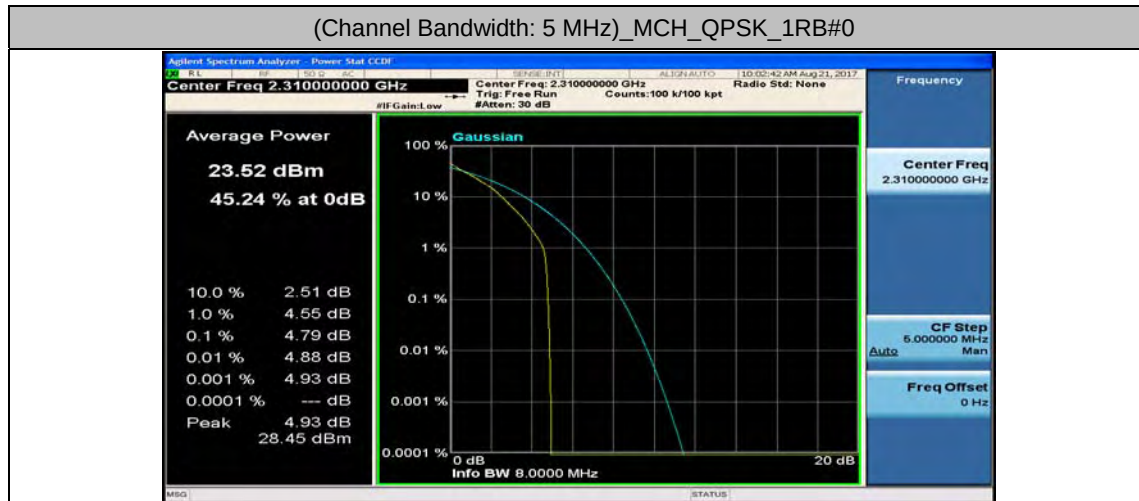
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	4.69	<13	PASS
16QAM	MCH	1	0	5.7	<13	PASS

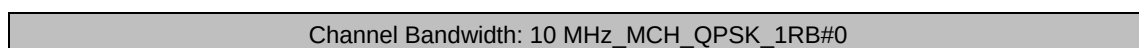


Test Graphs

Channel Bandwidth: 5 MHz

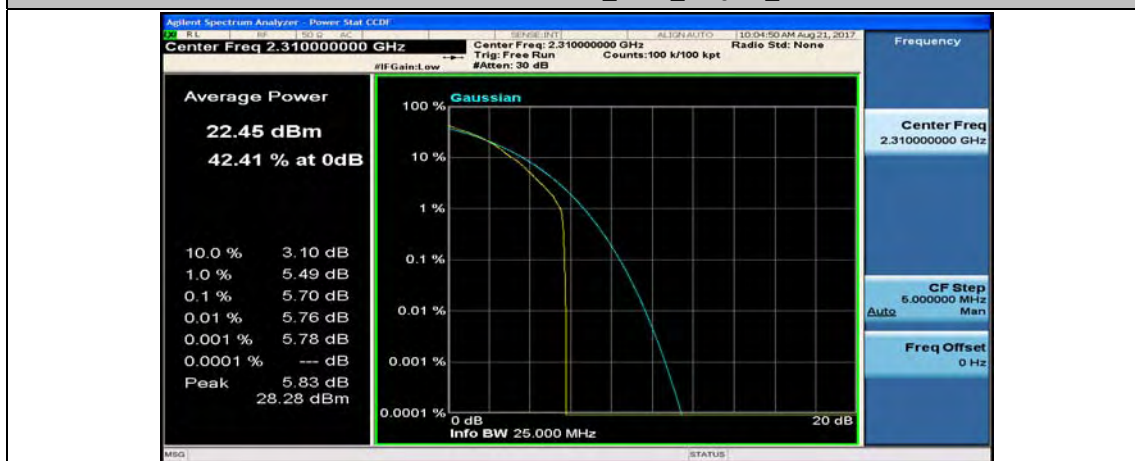


Channel Bandwidth: 10 MHz





Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0





Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.487	4.744	PASS
	MCH	25	0	4.471	4.696	PASS
	HCH	25	0	4.471	4.712	PASS
16QAM	LCH	25	0	4.503	4.760	PASS
	MCH	25	0	4.487	4.760	PASS
	HCH	25	0	4.487	4.712	PASS

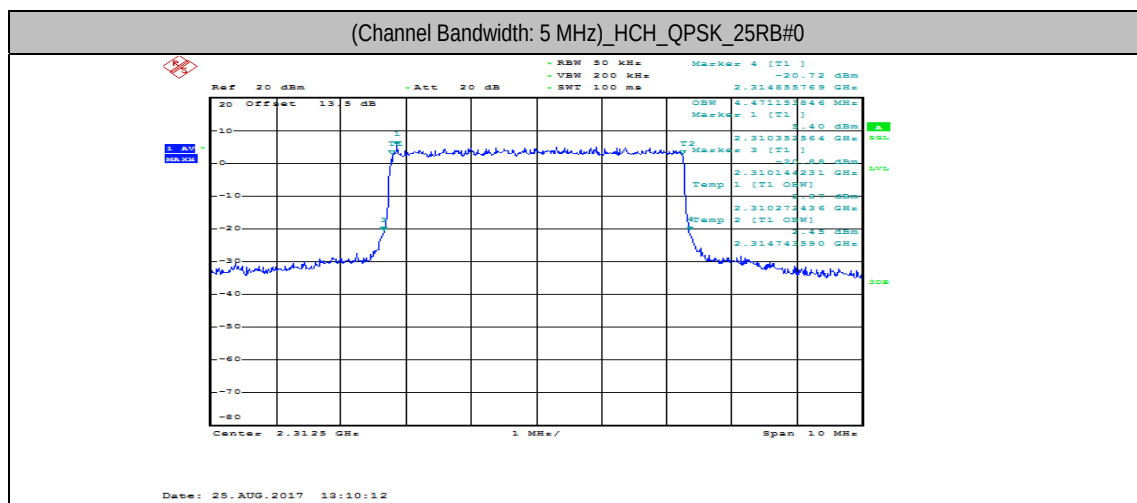
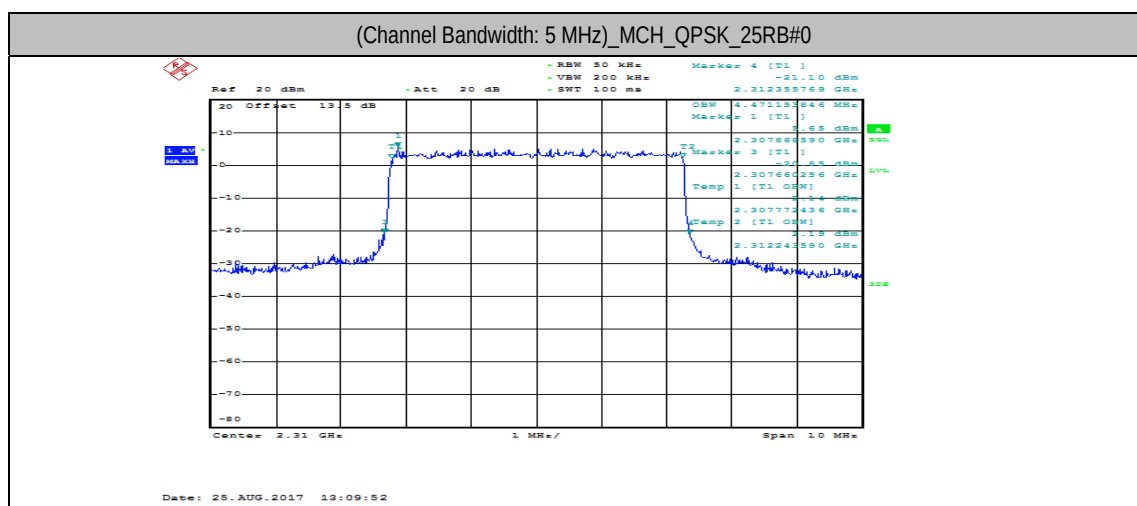
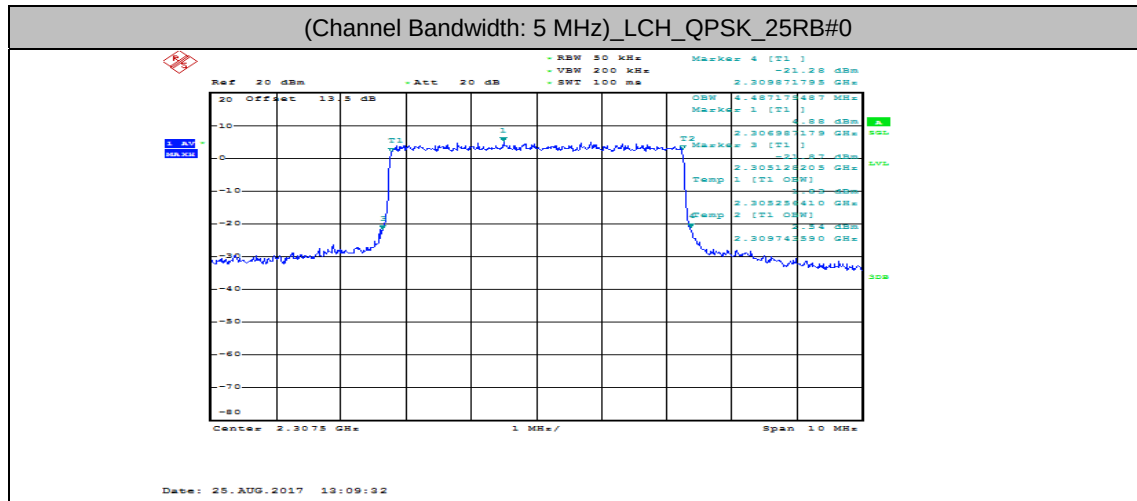
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	50	0	8.942	9.327	PASS
16QAM	MCH	50	0	8.974	9.391	PASS



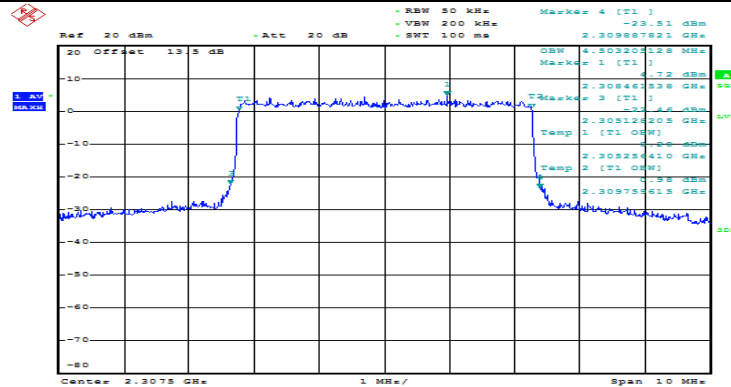
Test Graphs

Channel Bandwidth: 5 MHz



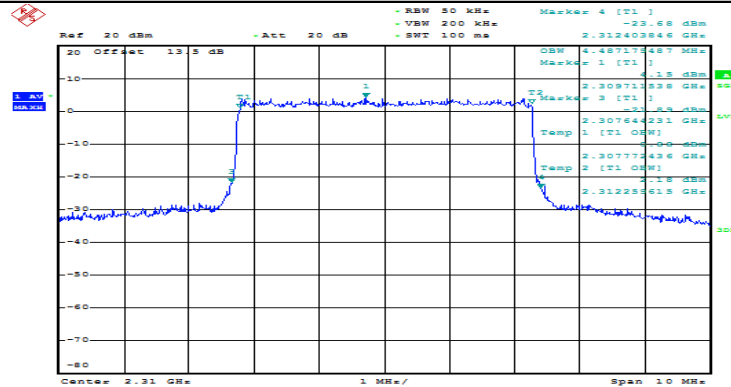


(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



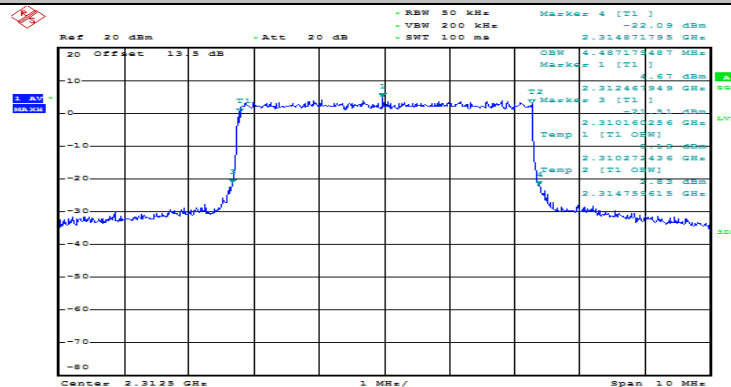
Date: 25.AUG.2017 13:09:42

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



Date: 25.AUG.2017 13:10:02

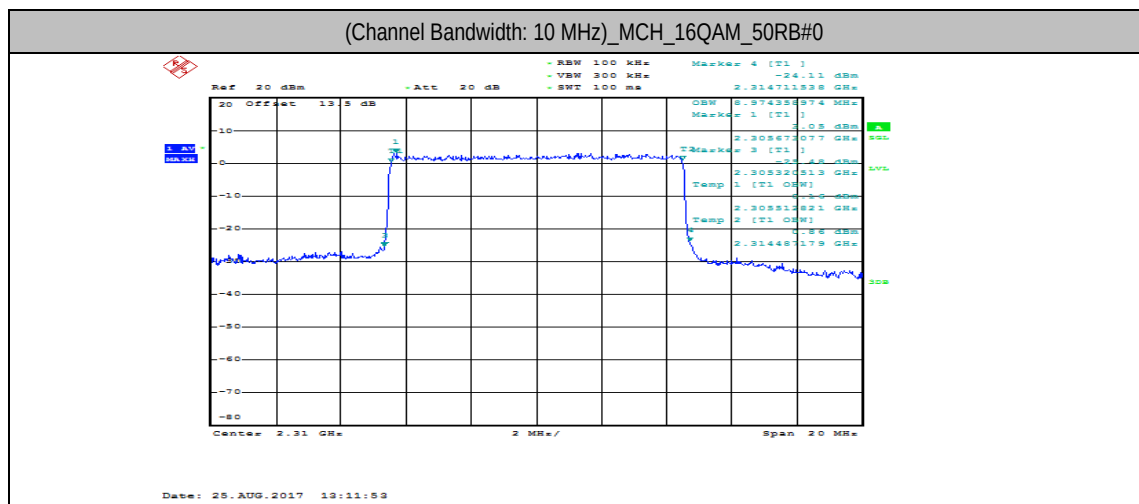
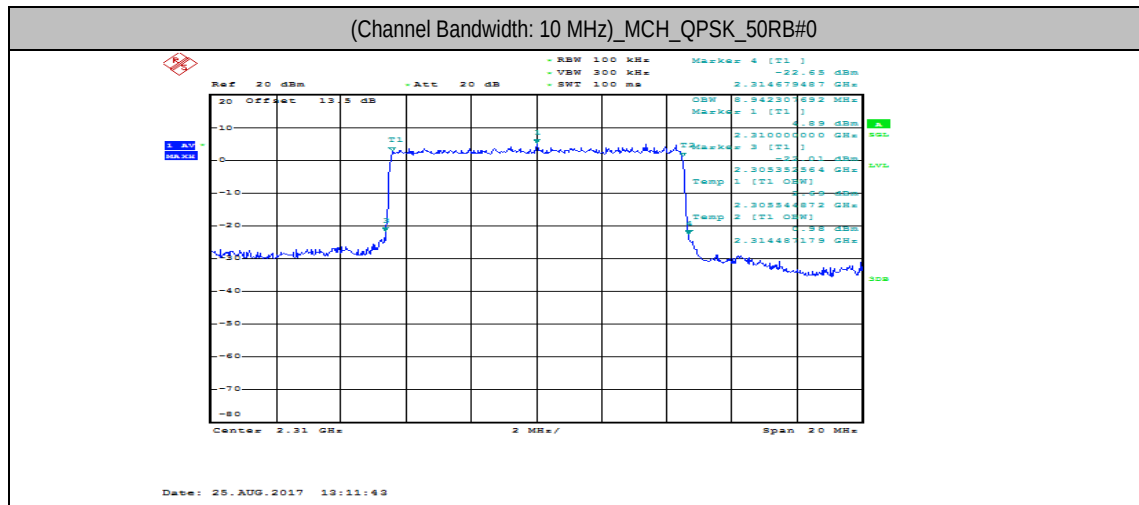
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Date: 25.AUG.2017 13:10:22



Channel Bandwidth: 10 MHz

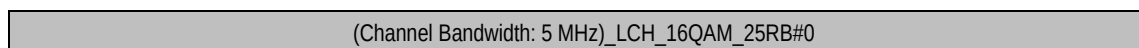
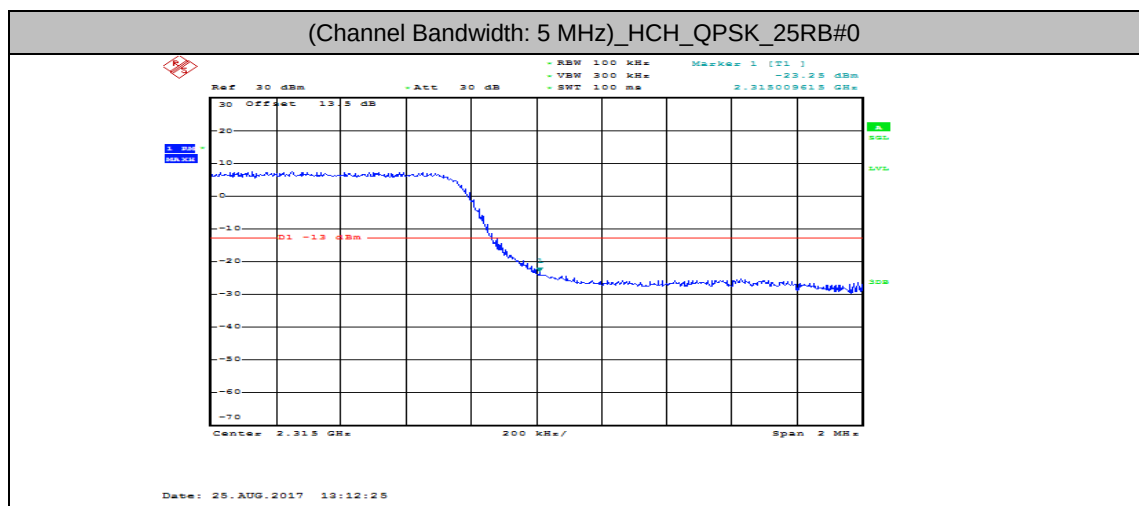
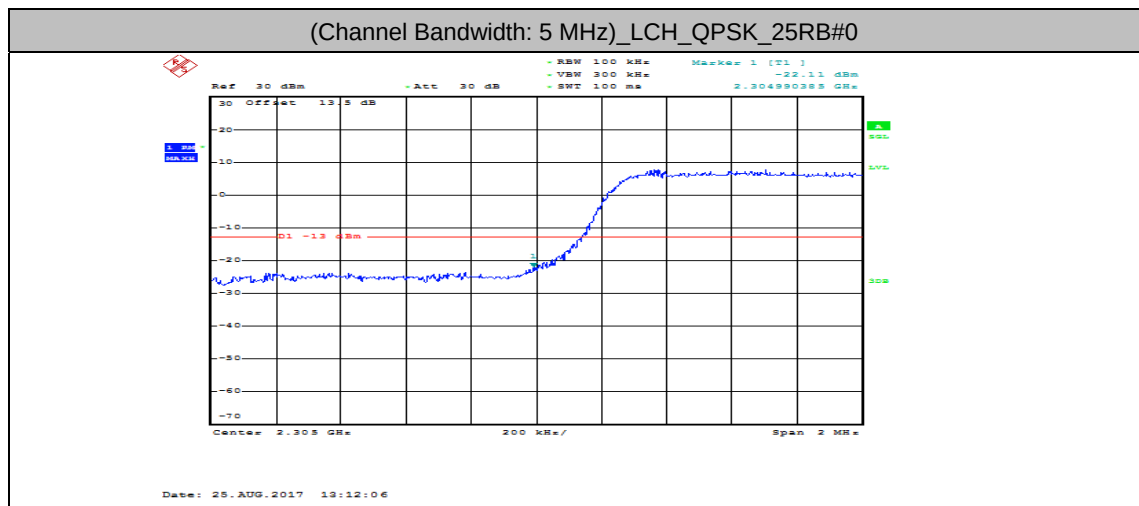


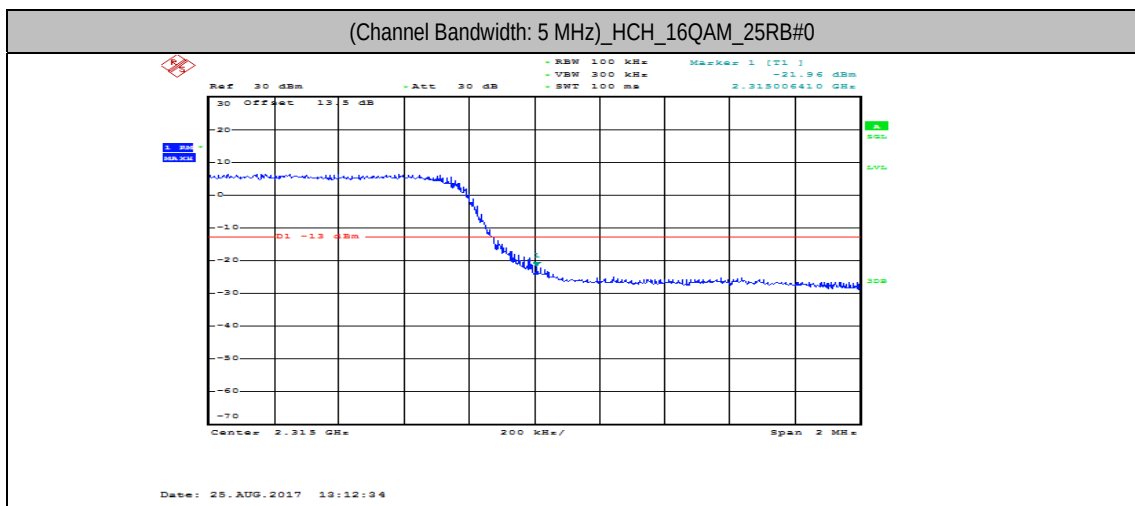
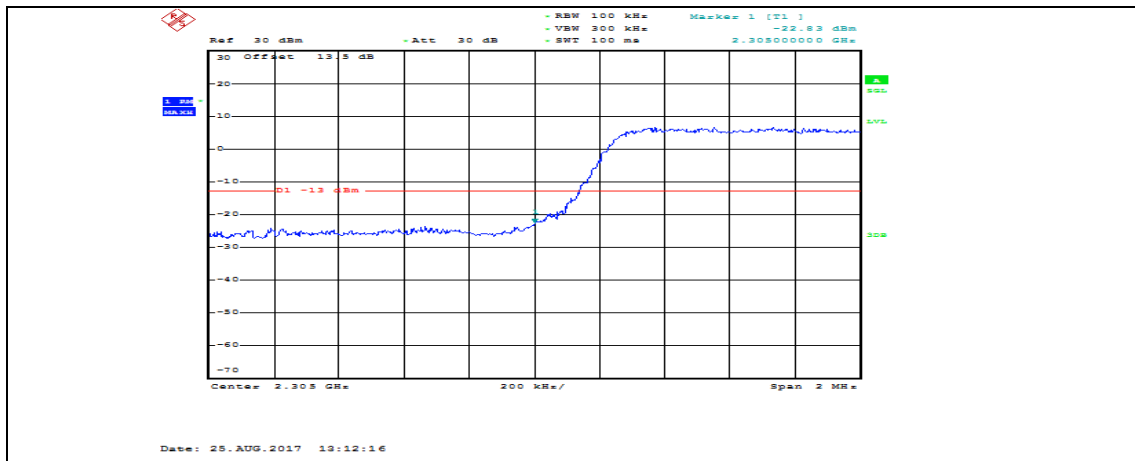


Appendix D: Band Edge

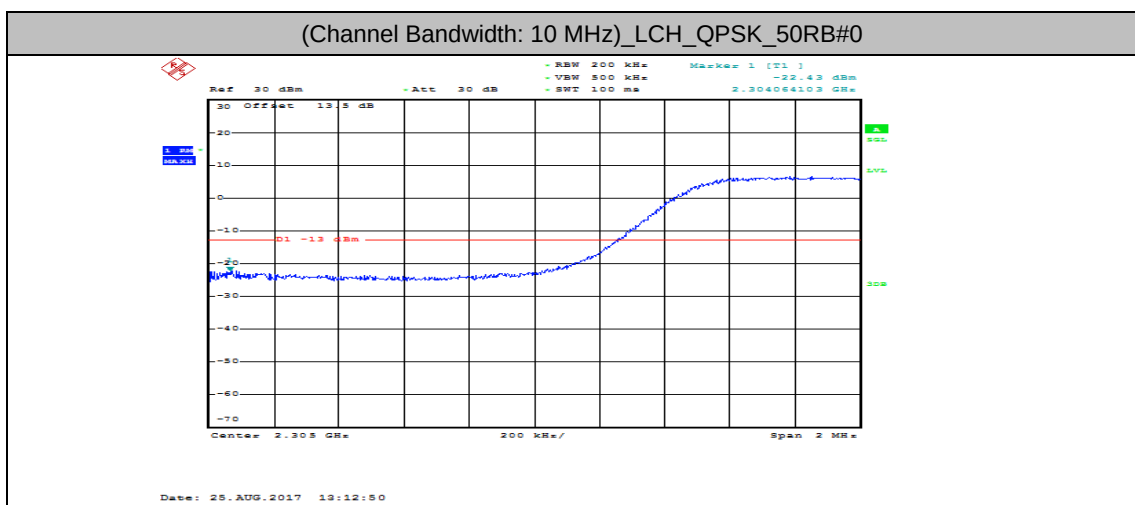
Test Graphs

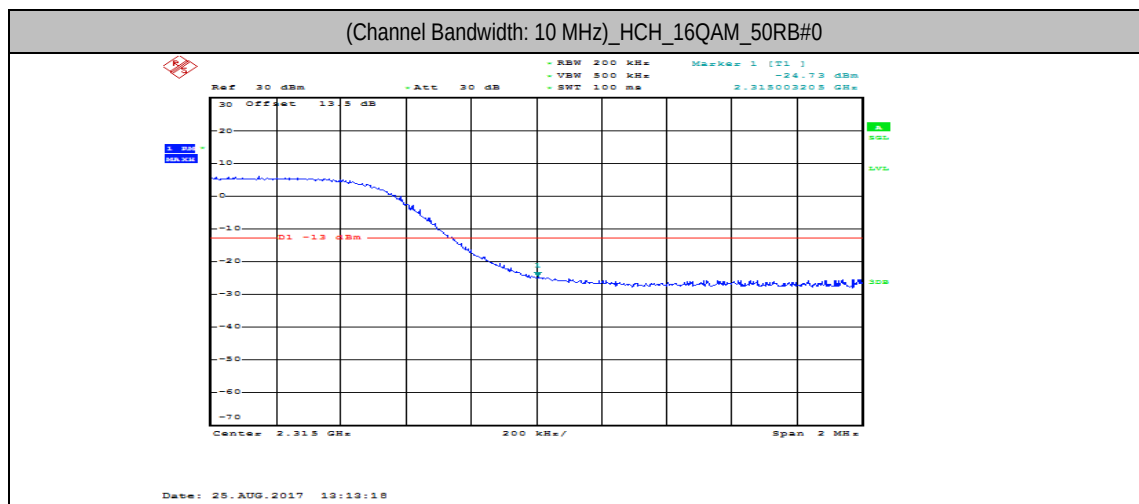
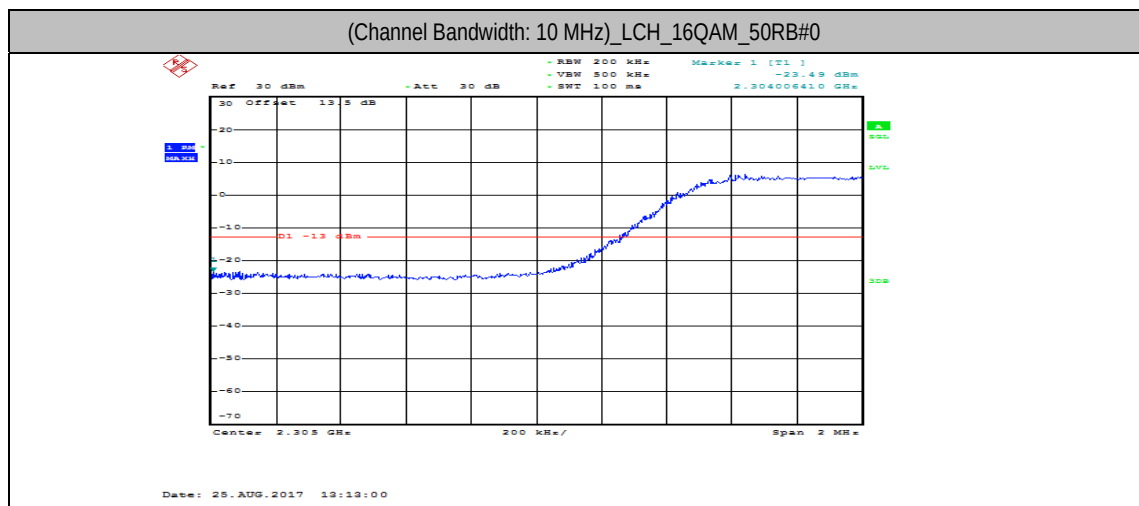
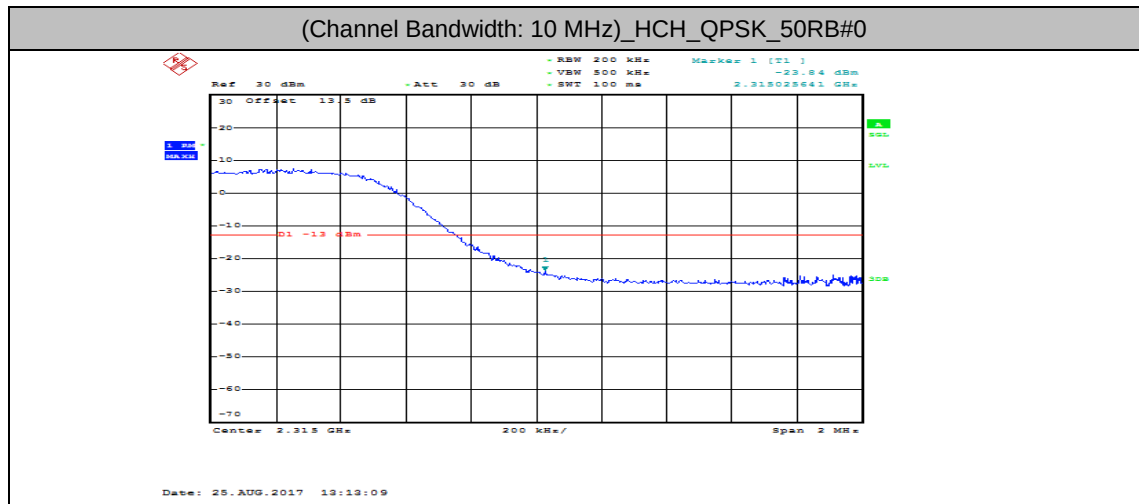
Channel Bandwidth: 5 MHz





Channel Bandwidth: 10 MHz



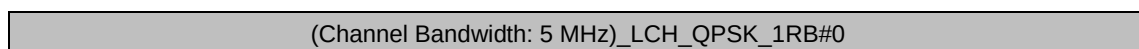
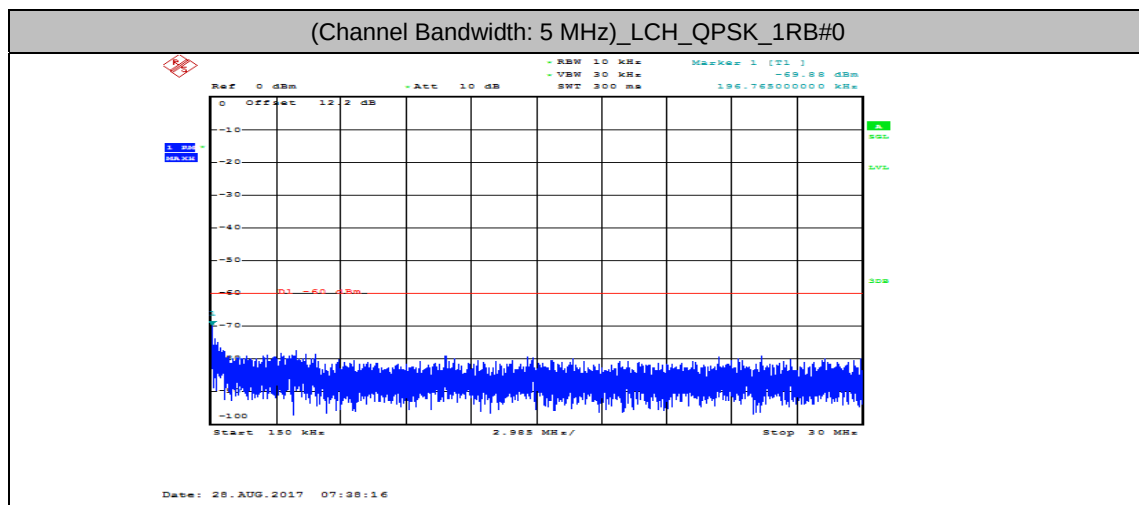
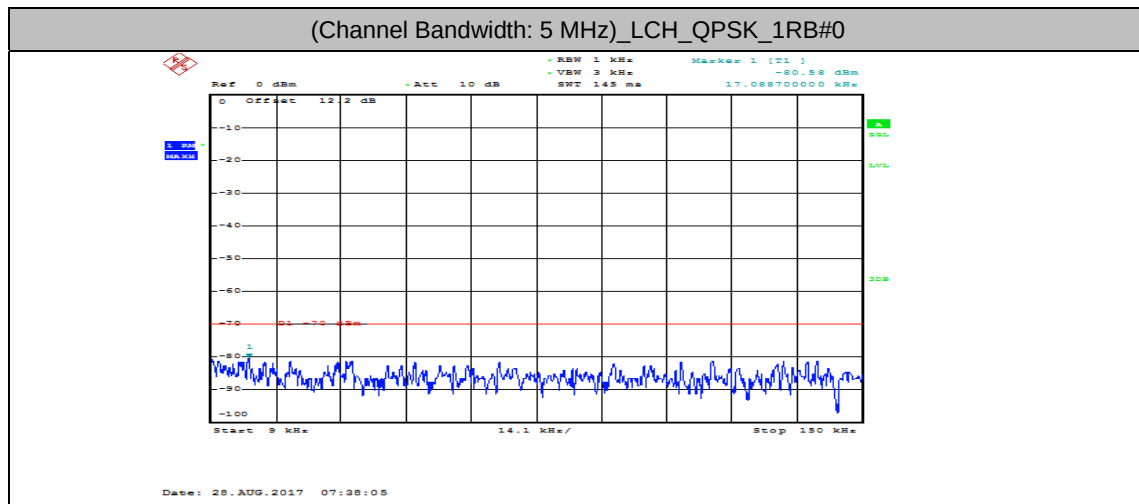


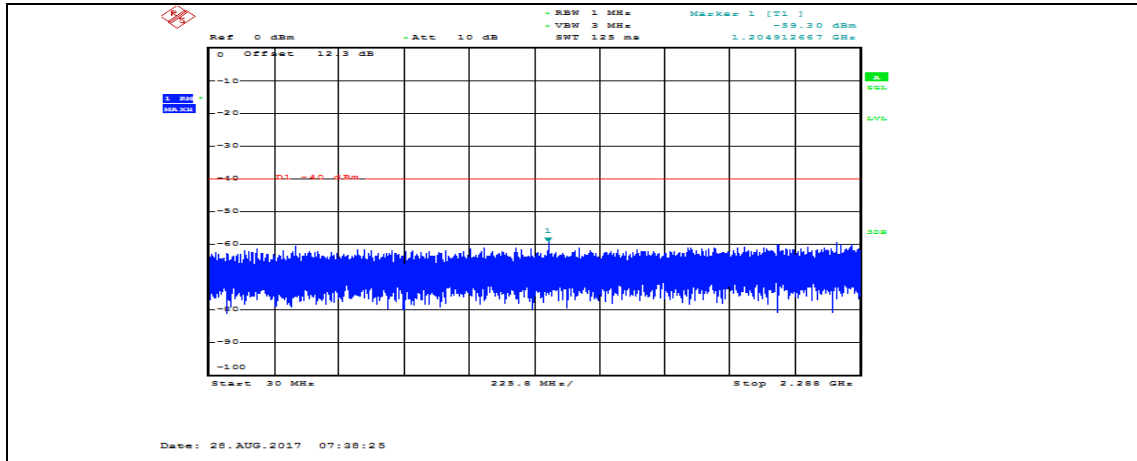


Appendix E: Conducted Spurious Emission

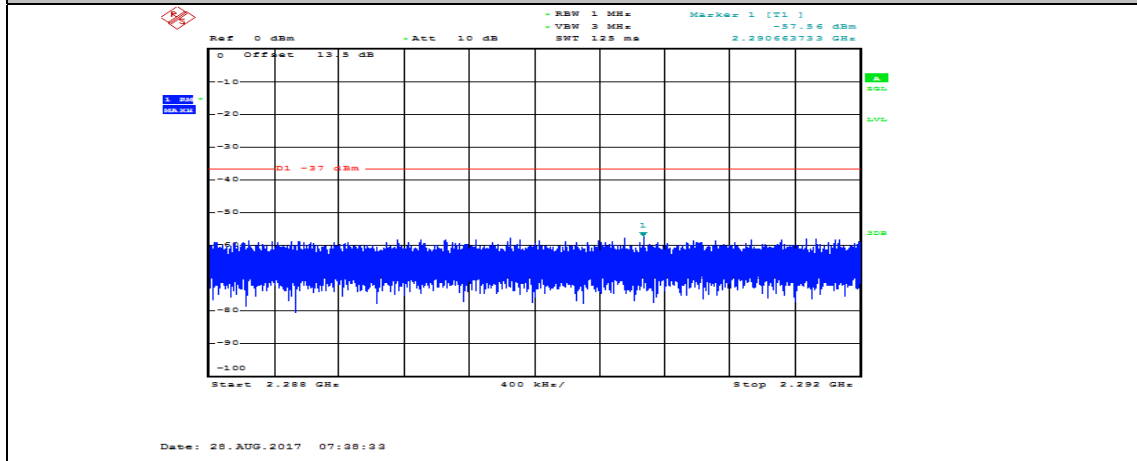
Test Graphs

Channel Bandwidth: 5 MHz

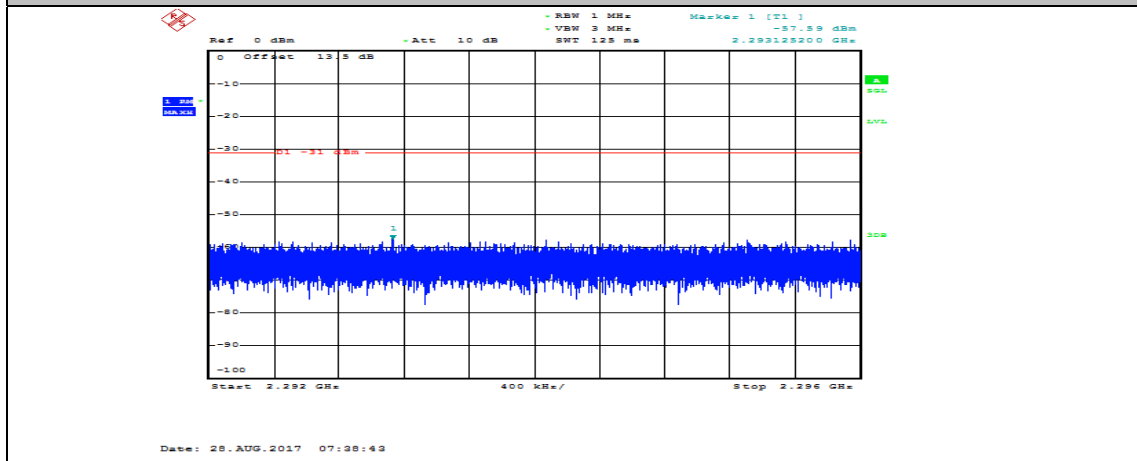




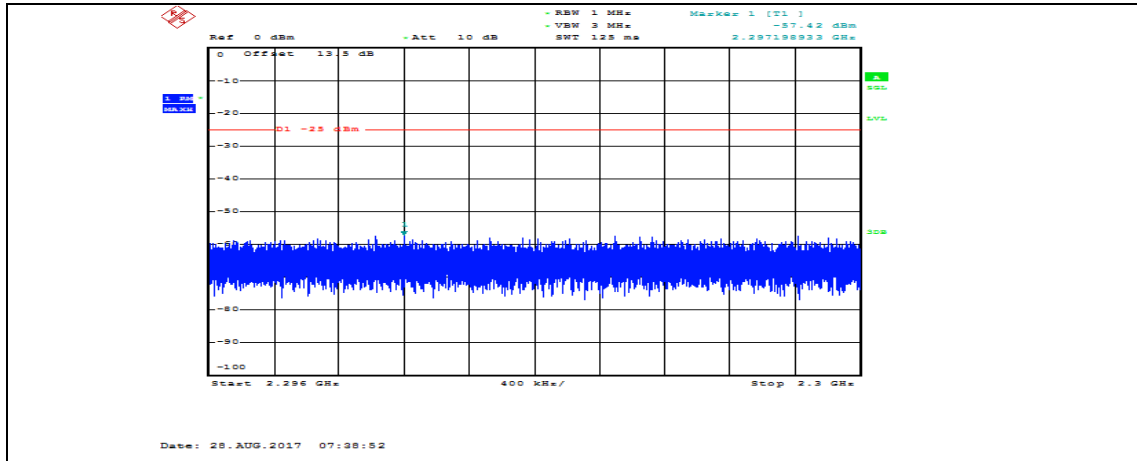
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



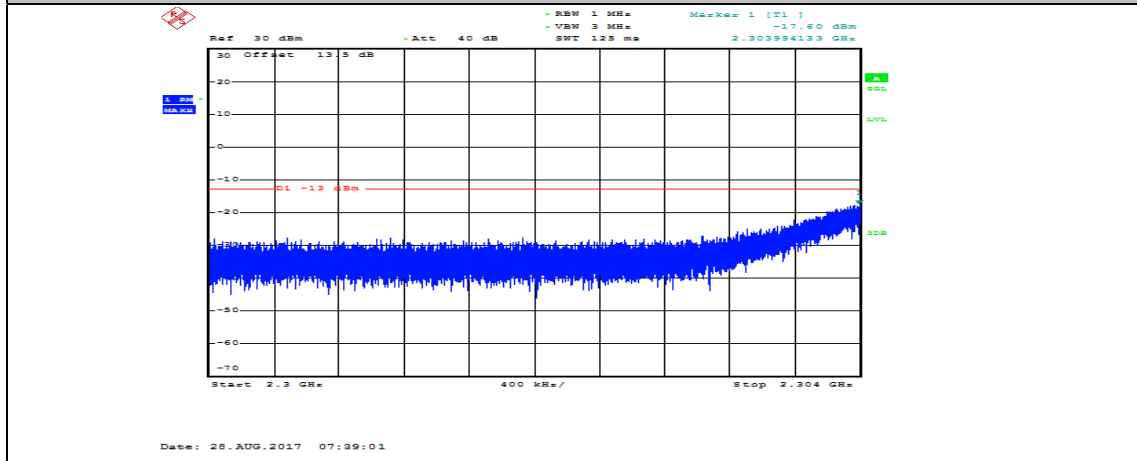
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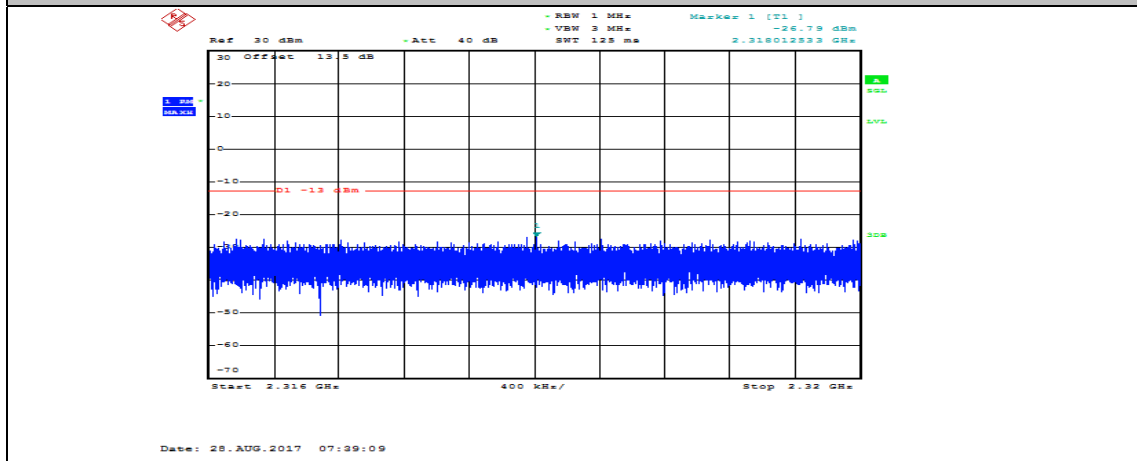
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



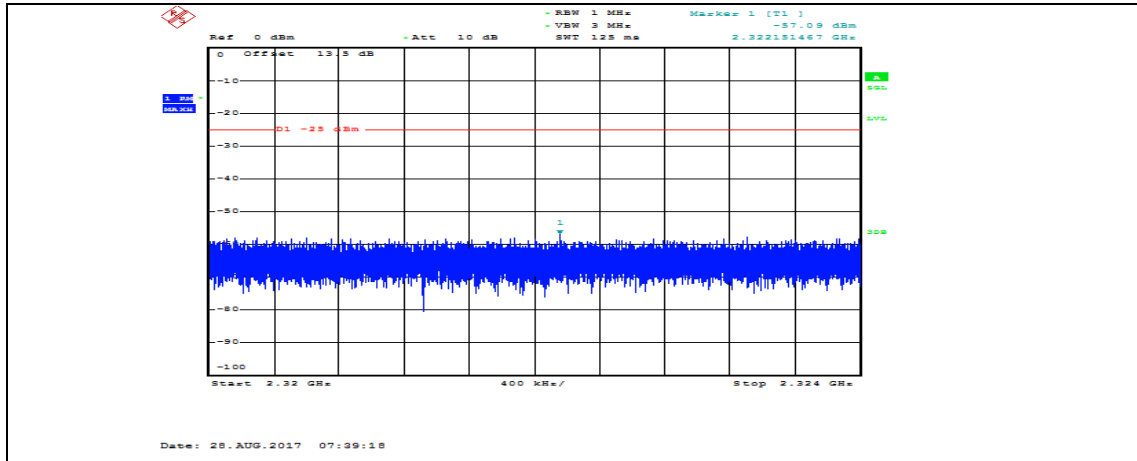
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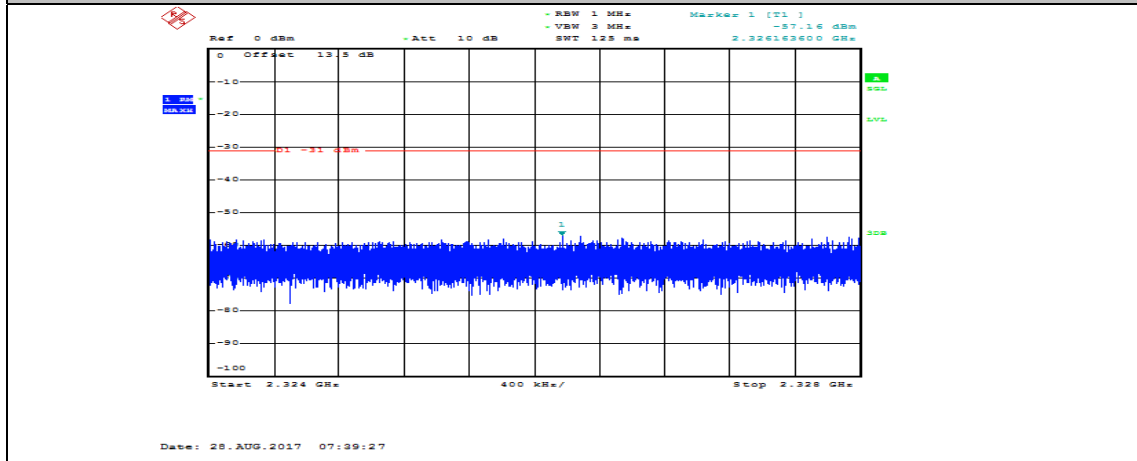
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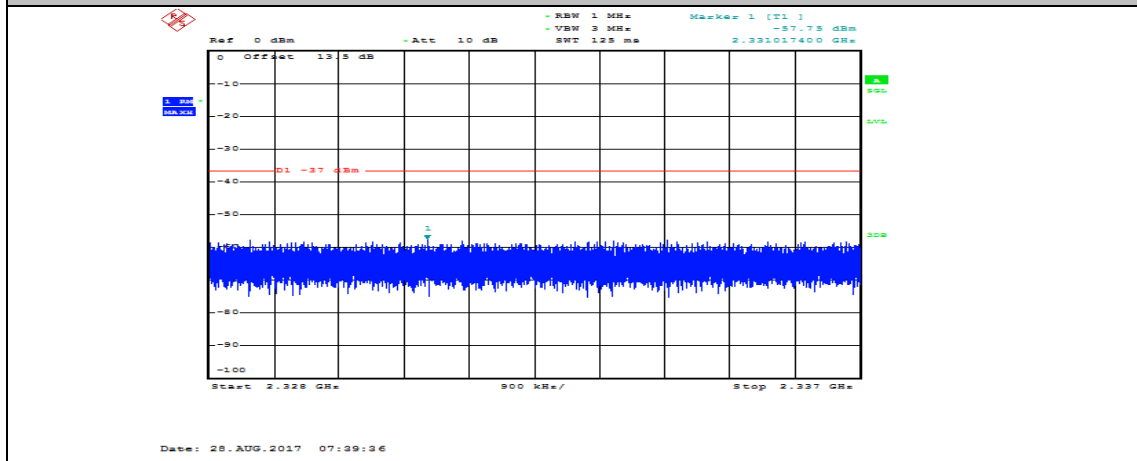
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



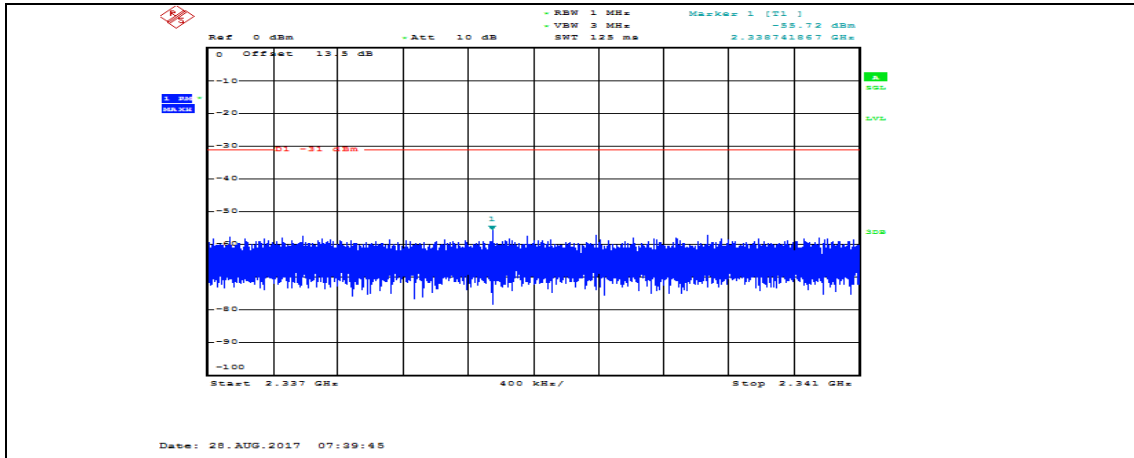
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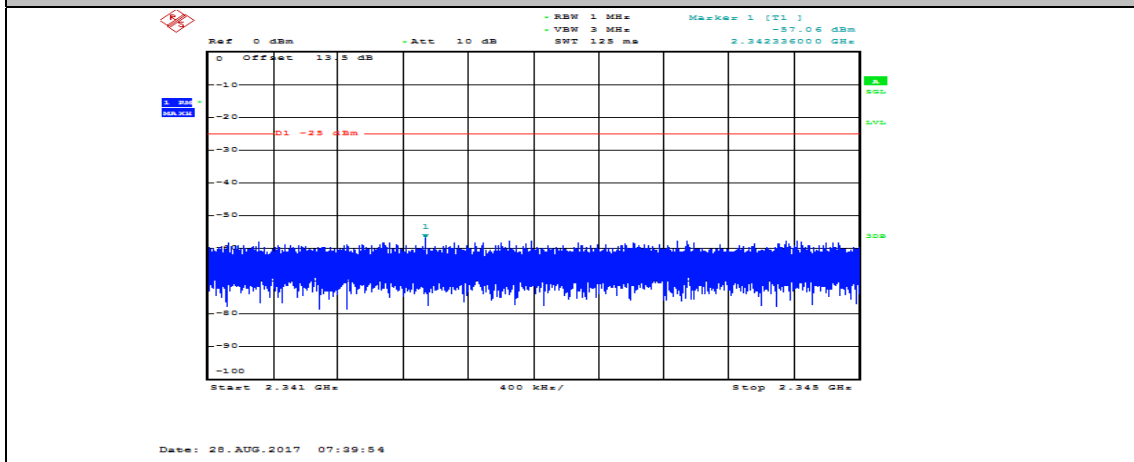
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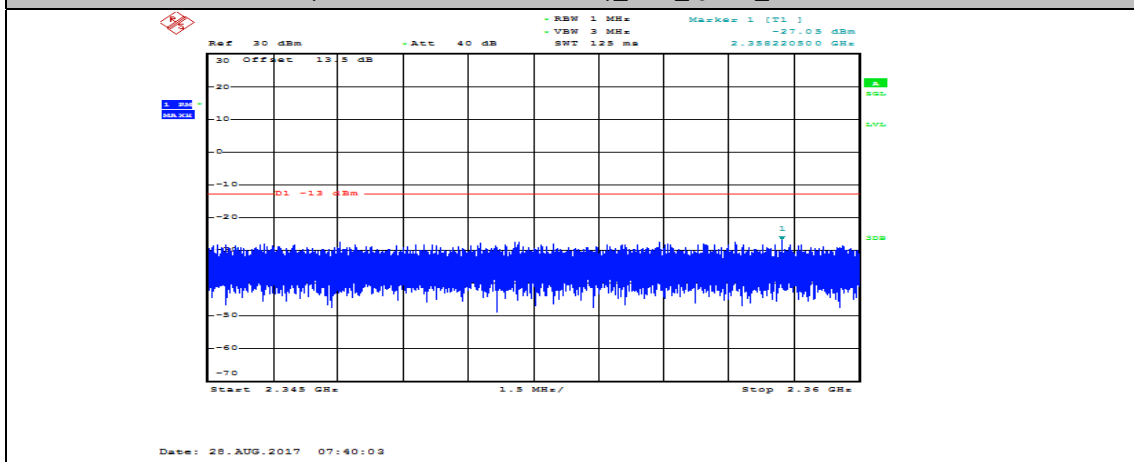
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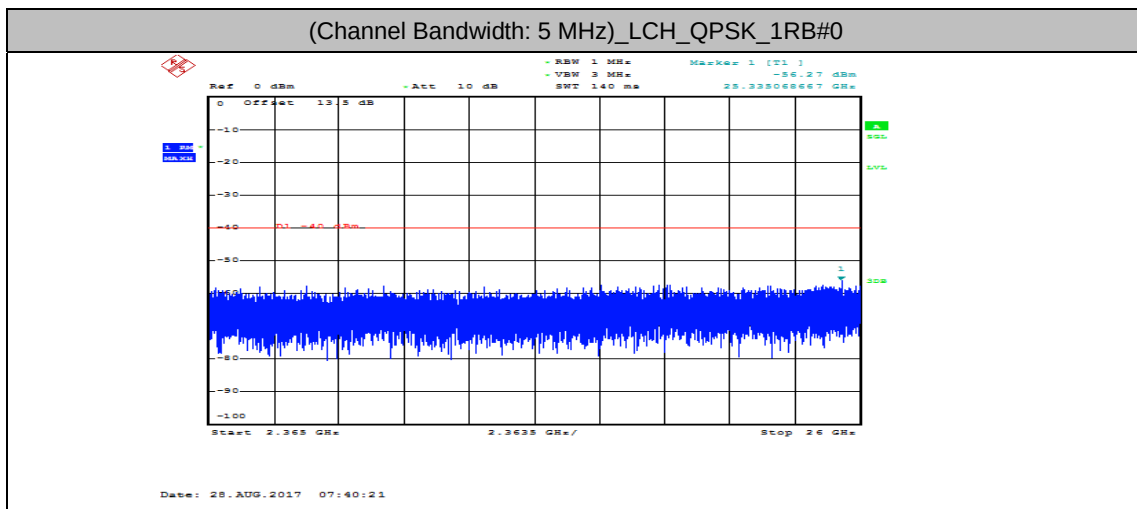
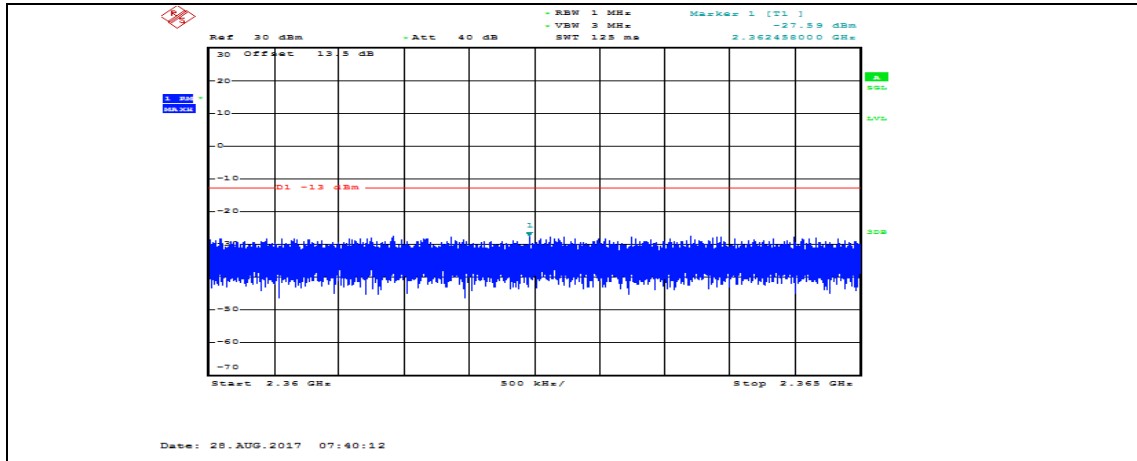
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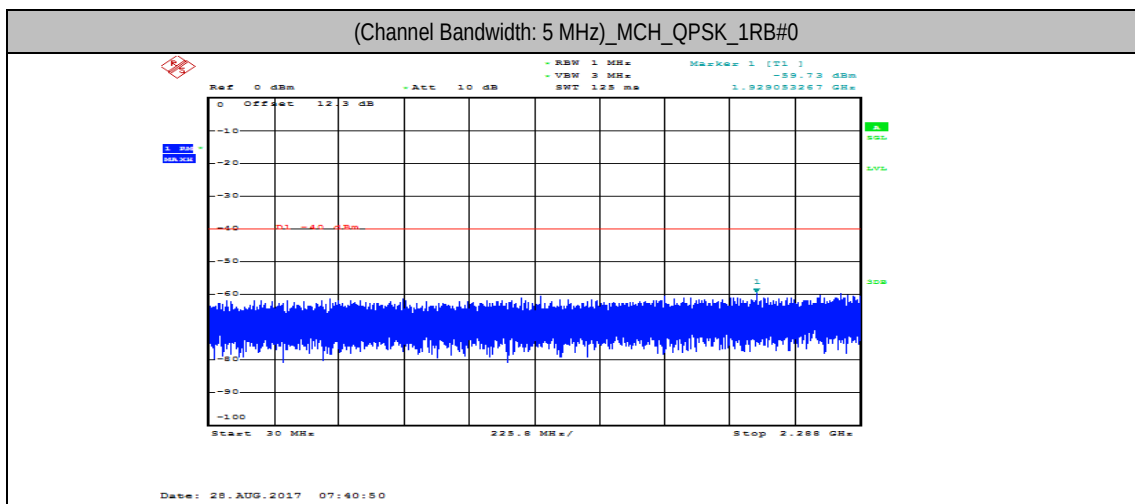
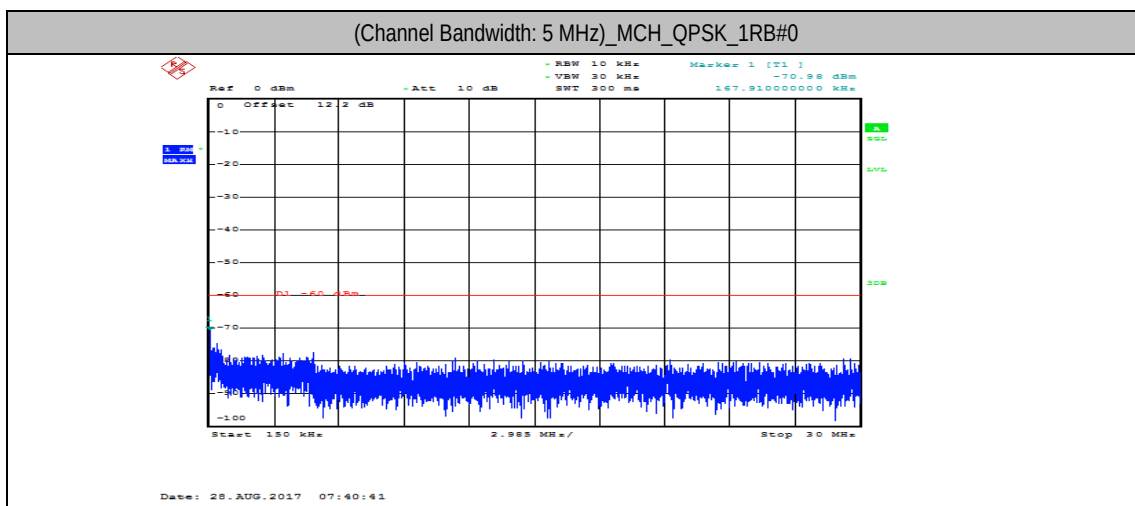
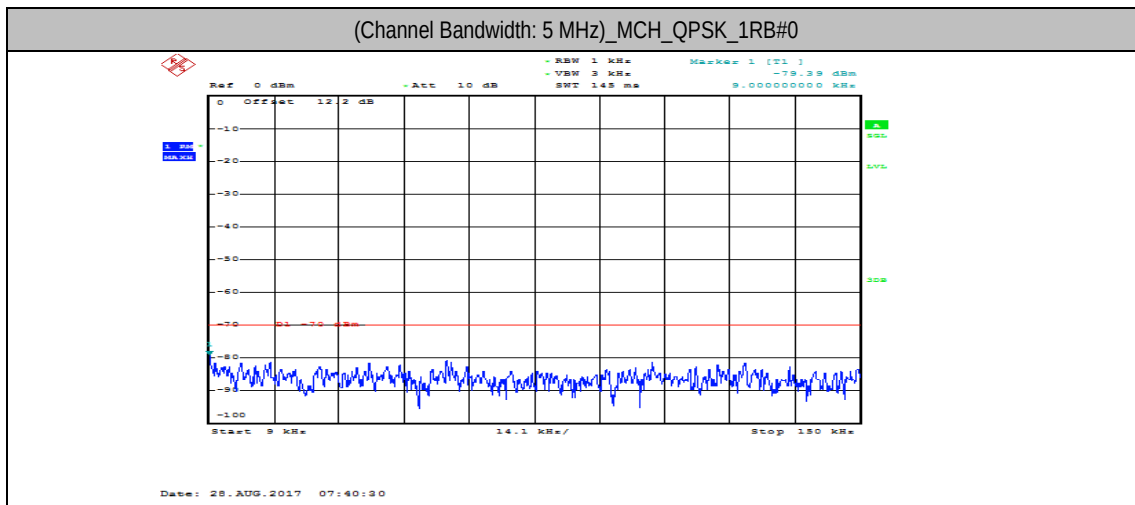


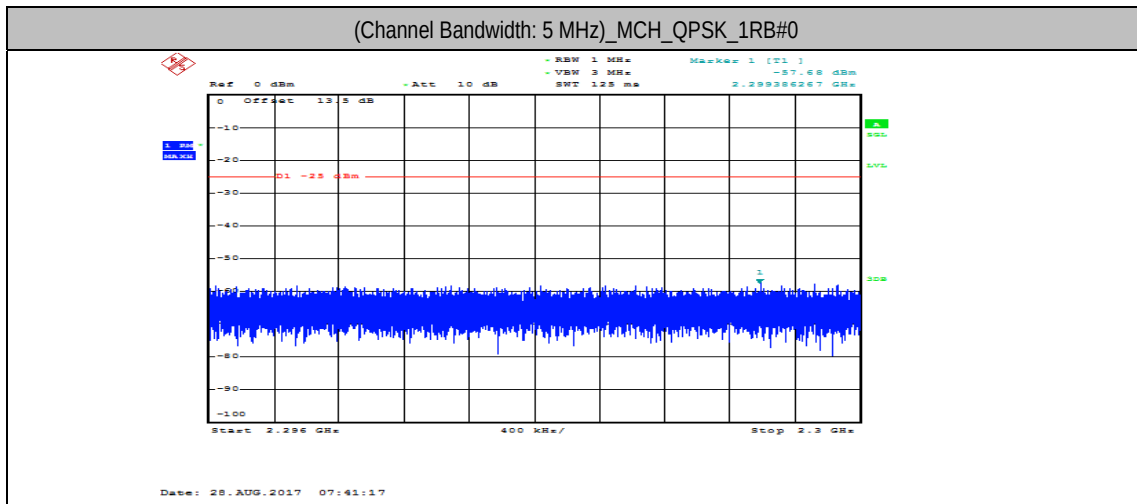
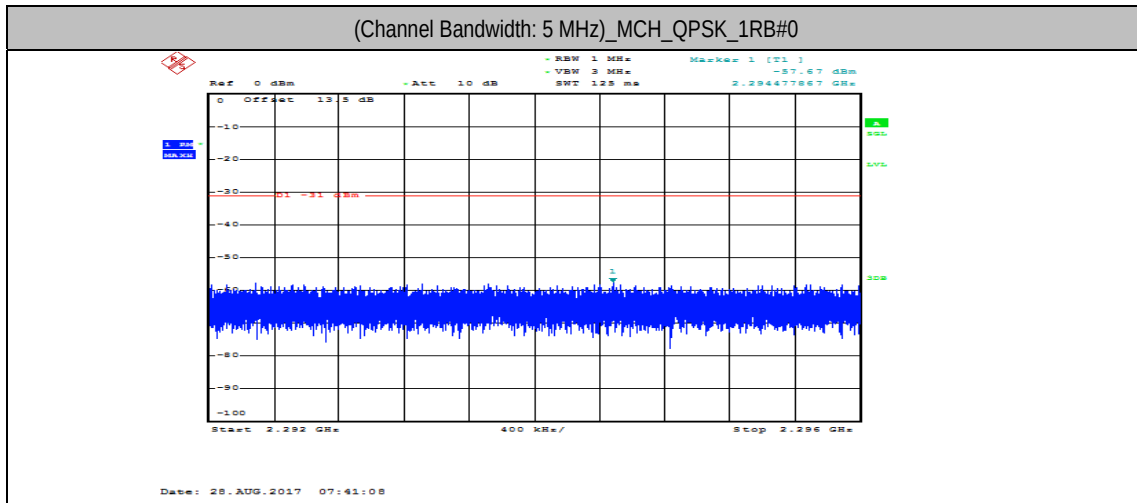
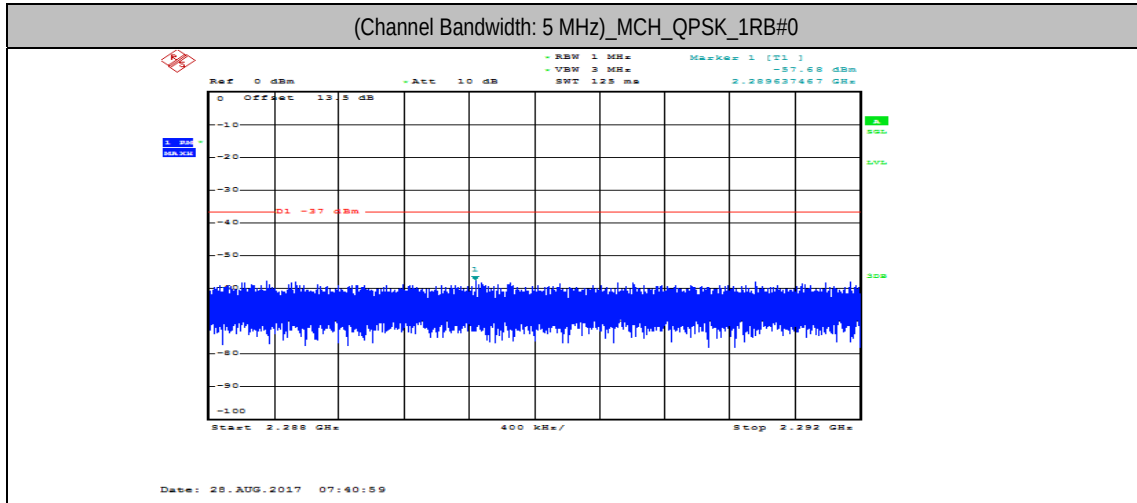
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

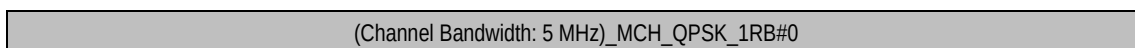
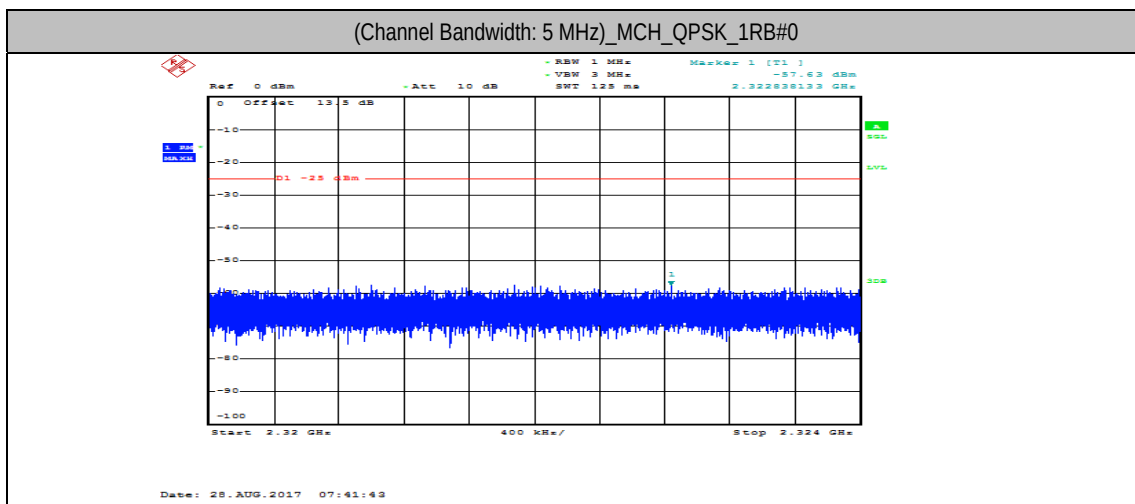
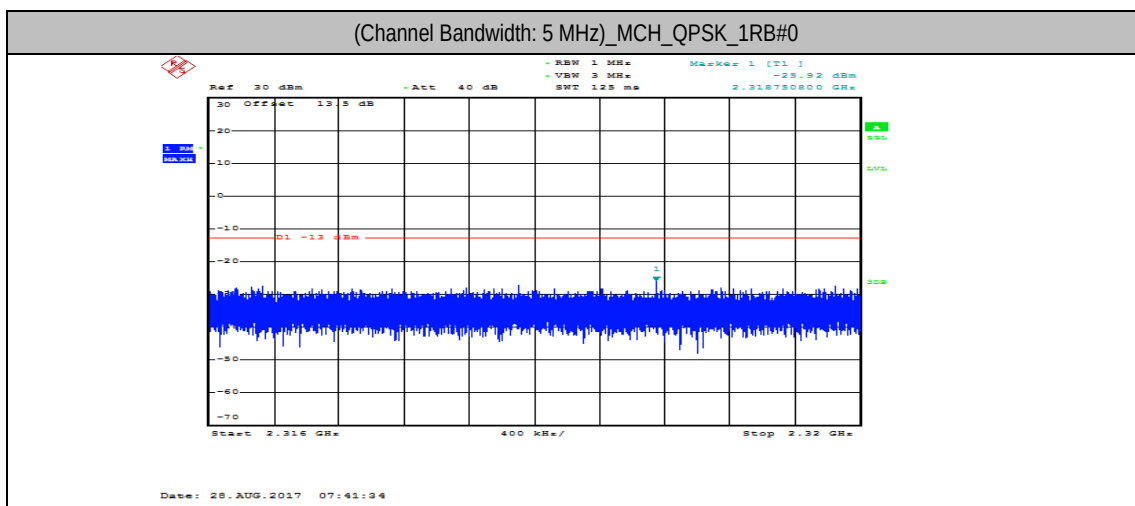
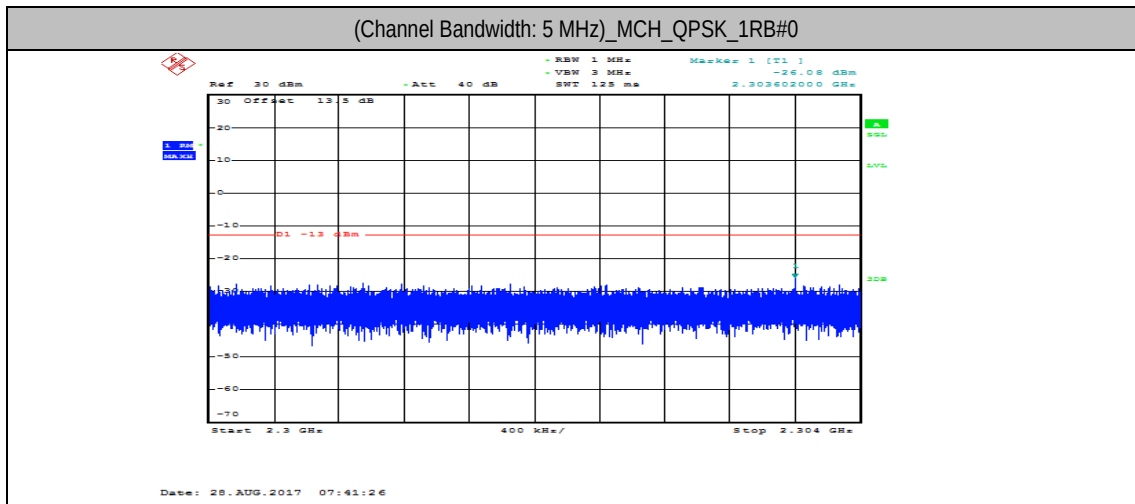


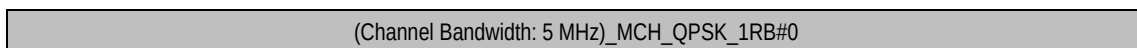
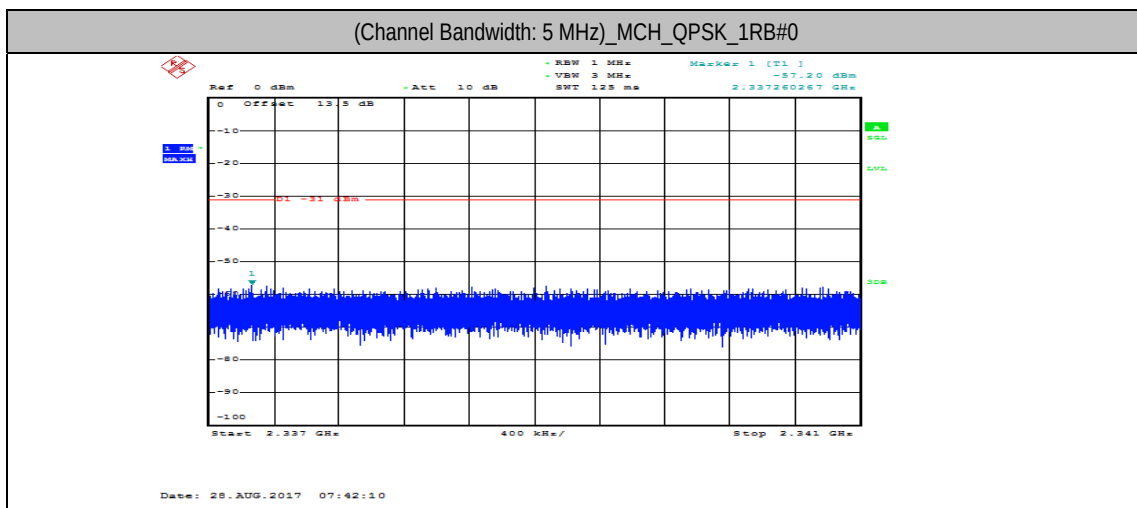
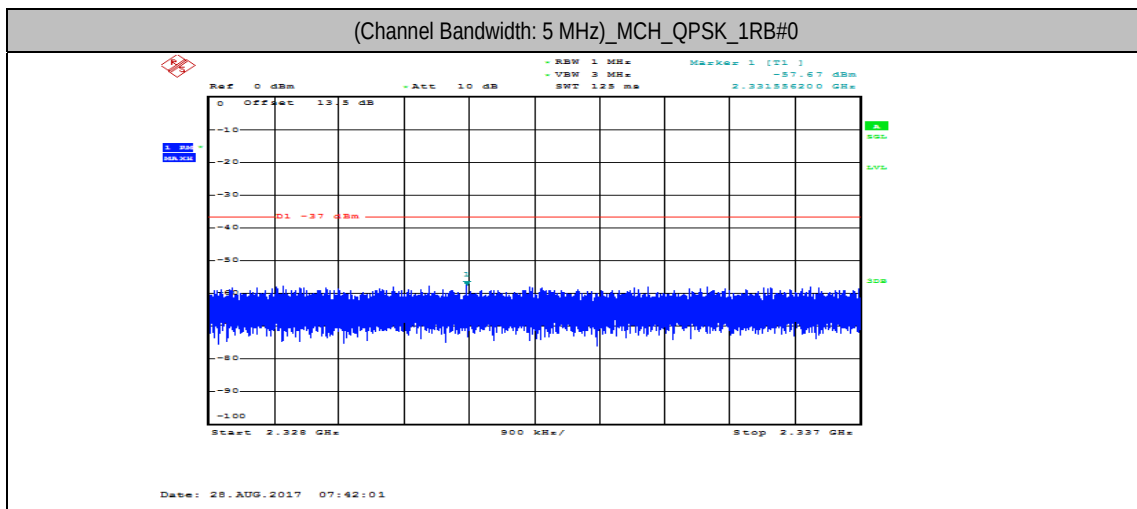
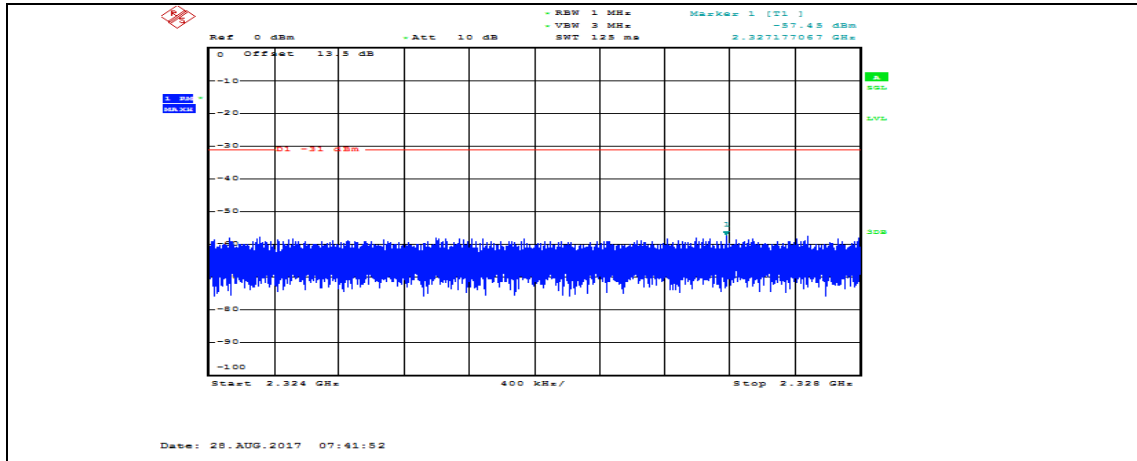
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

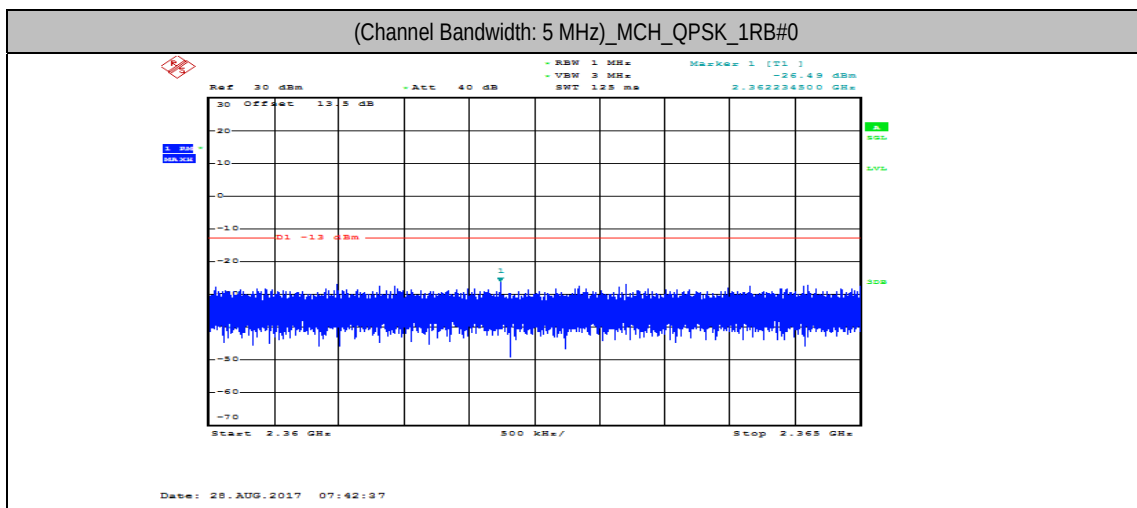
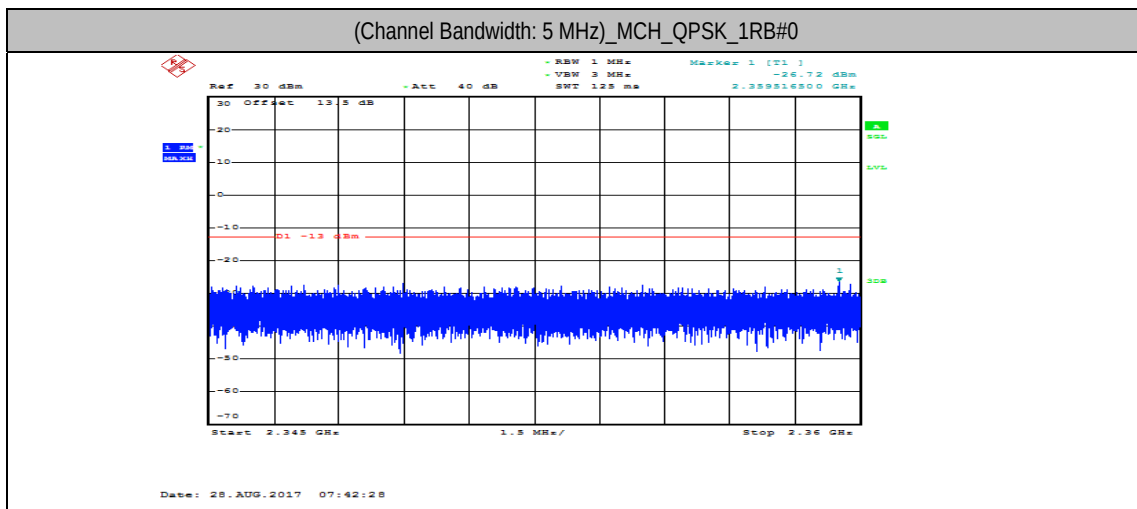
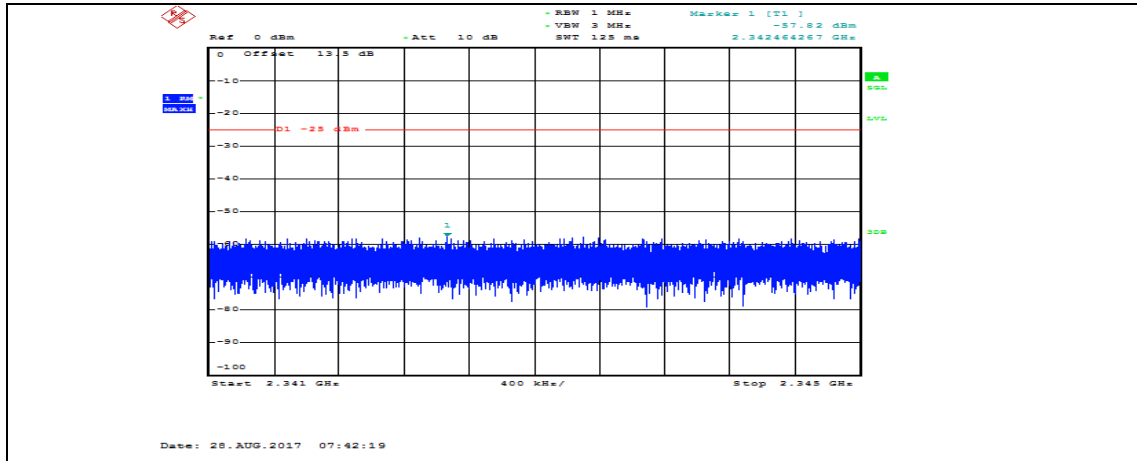


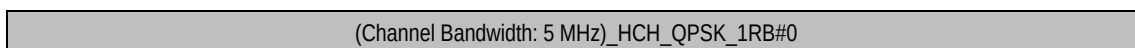
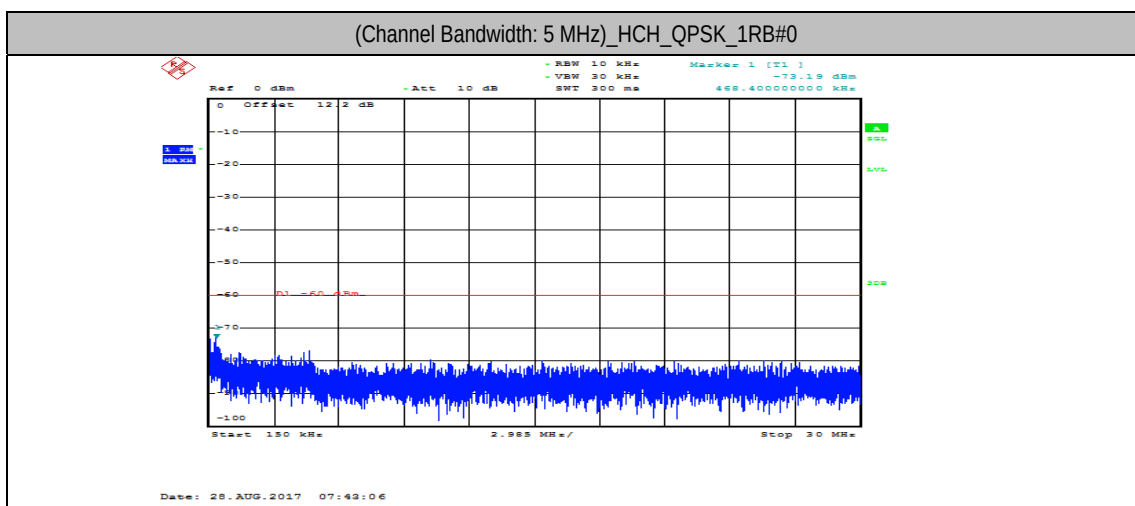
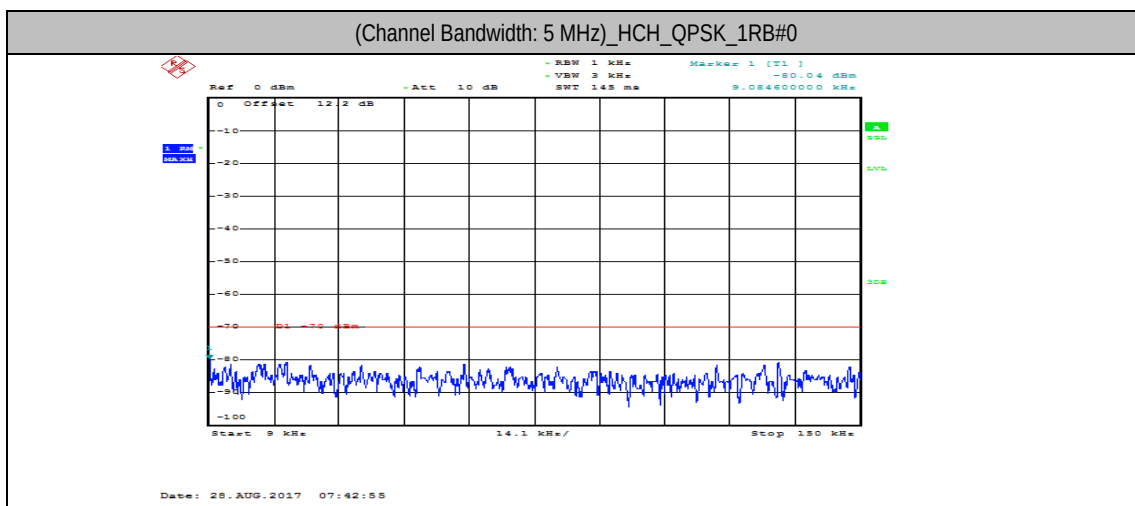
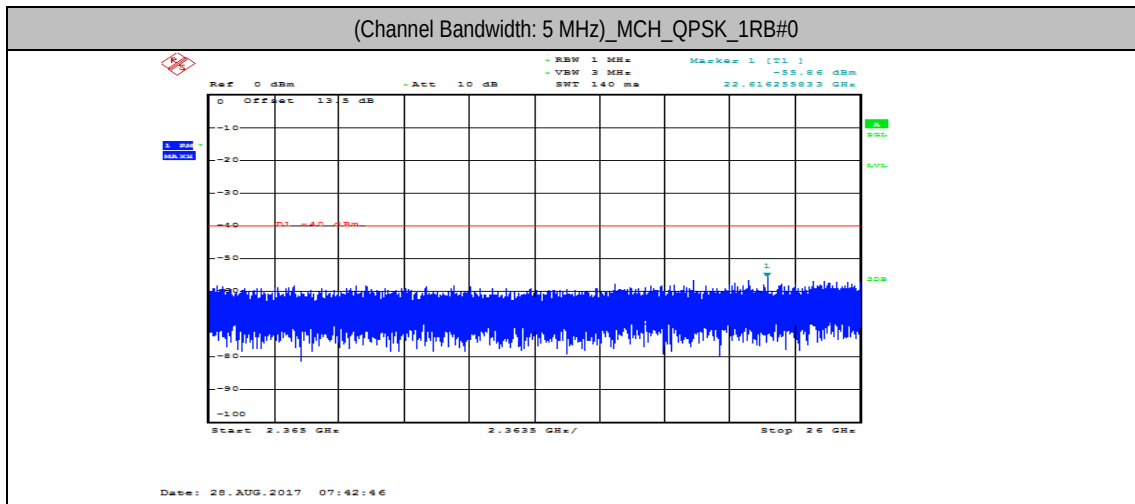


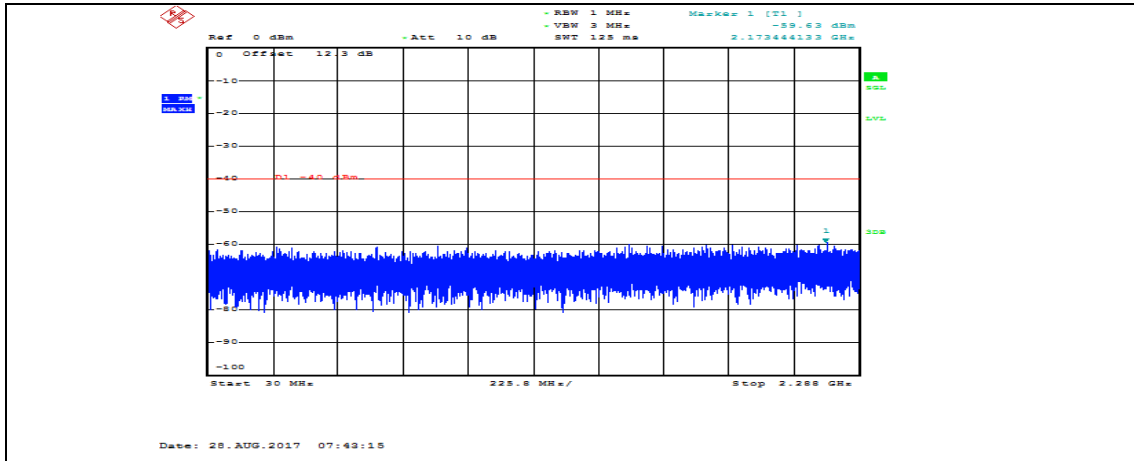




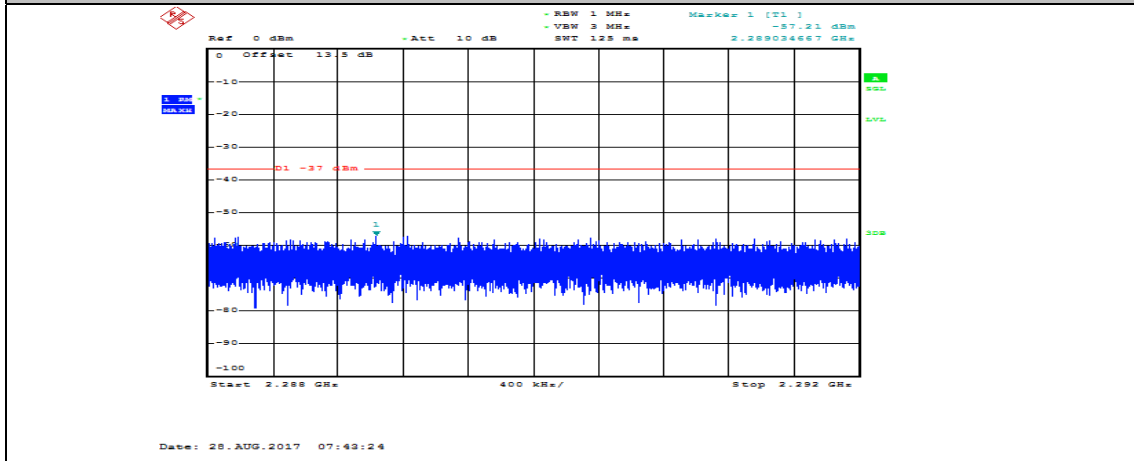




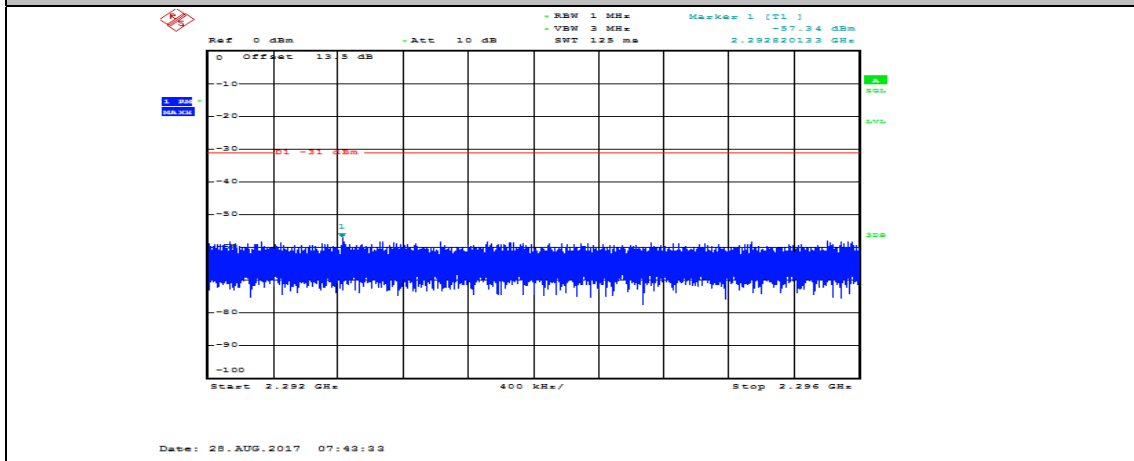




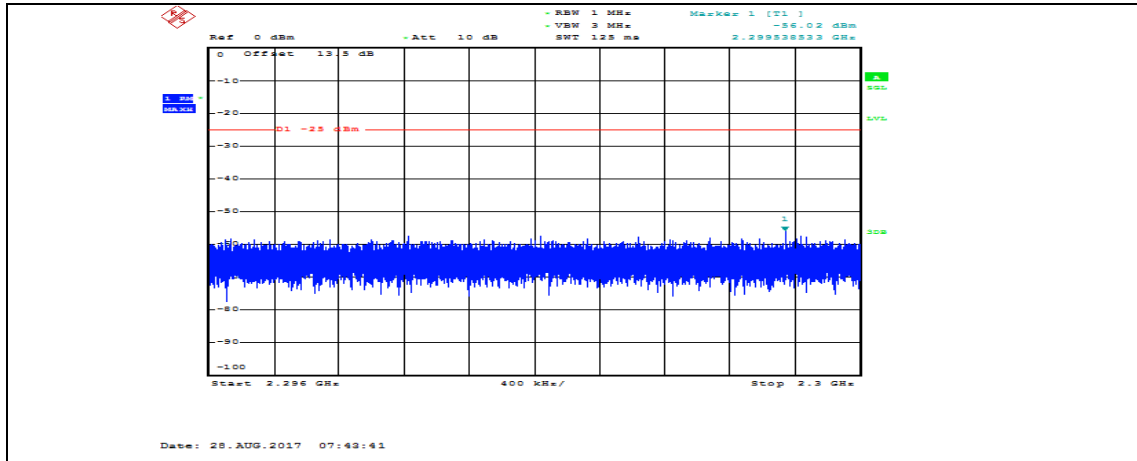
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



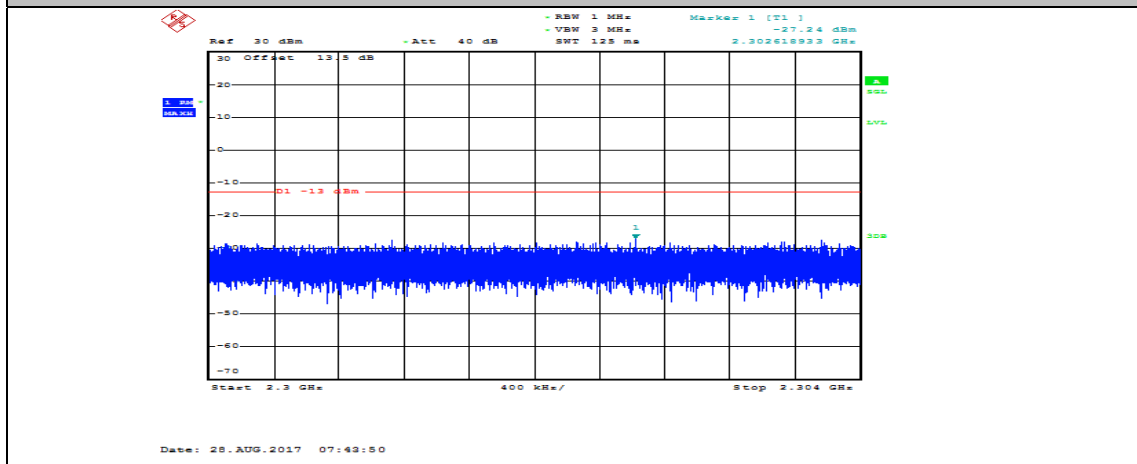
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



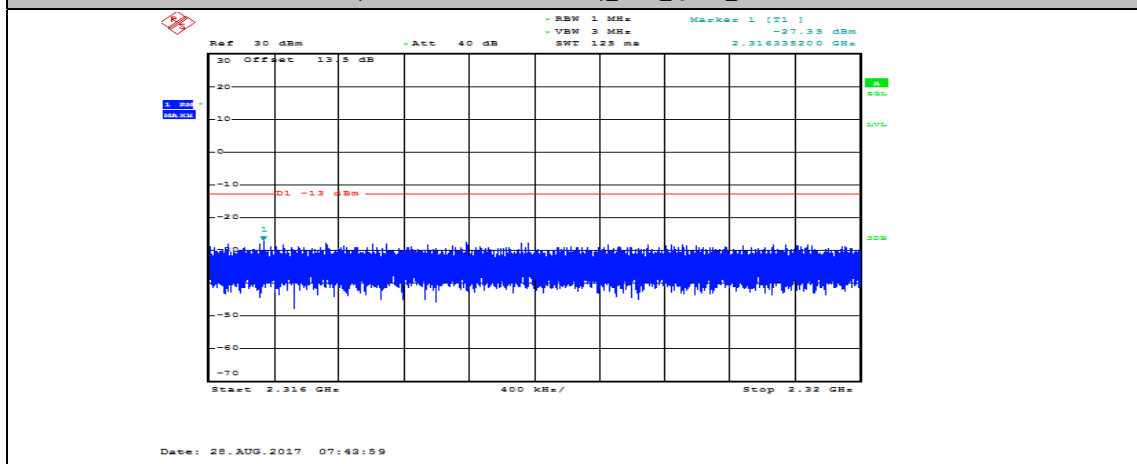
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



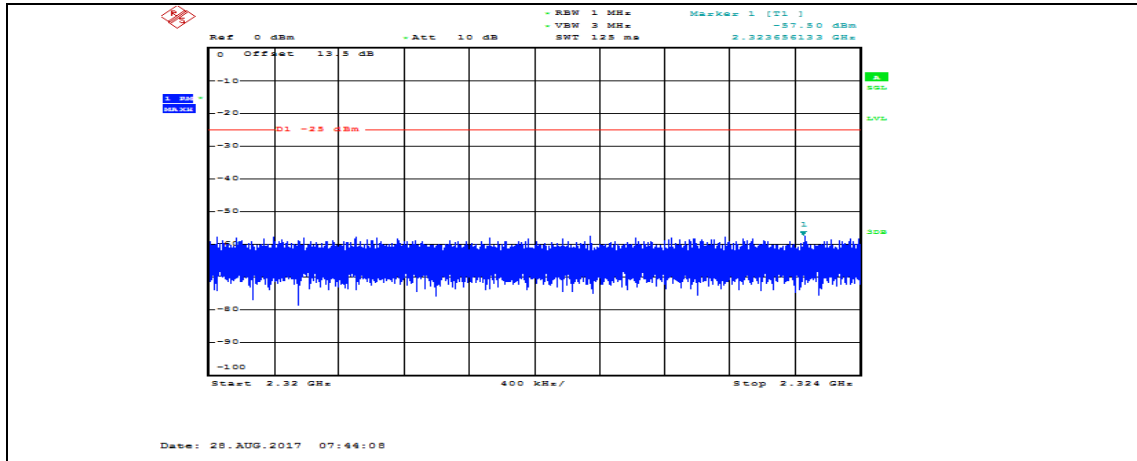
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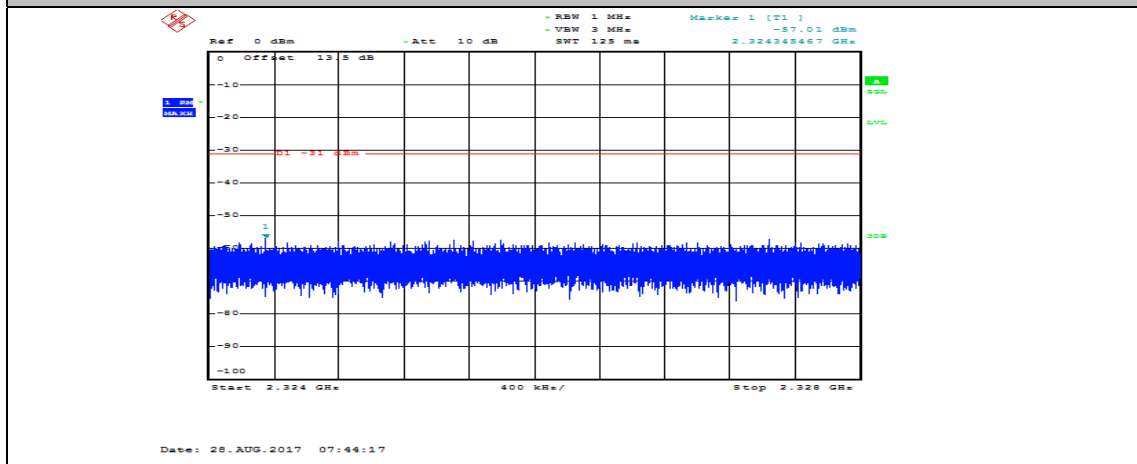
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



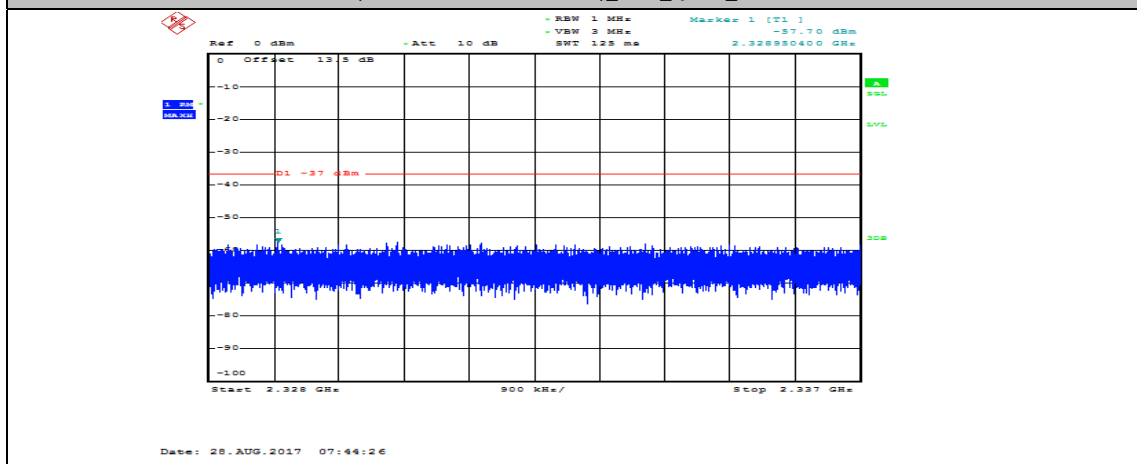
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



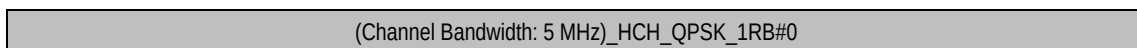
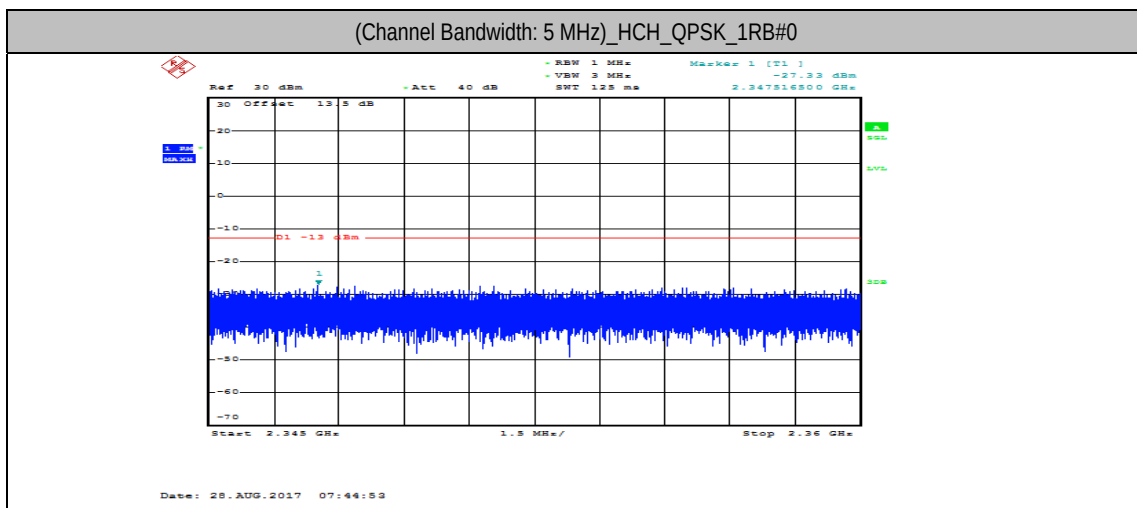
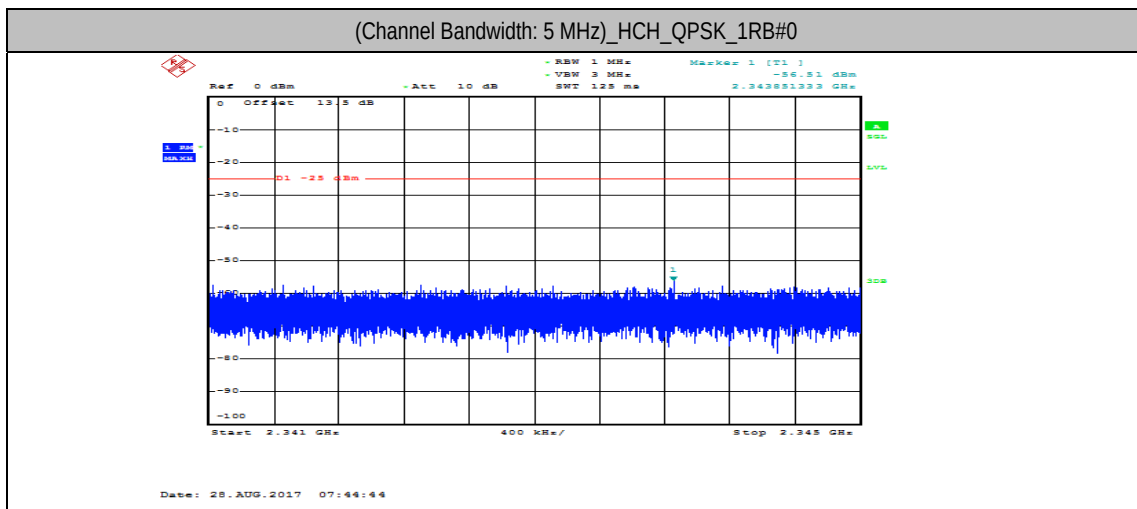
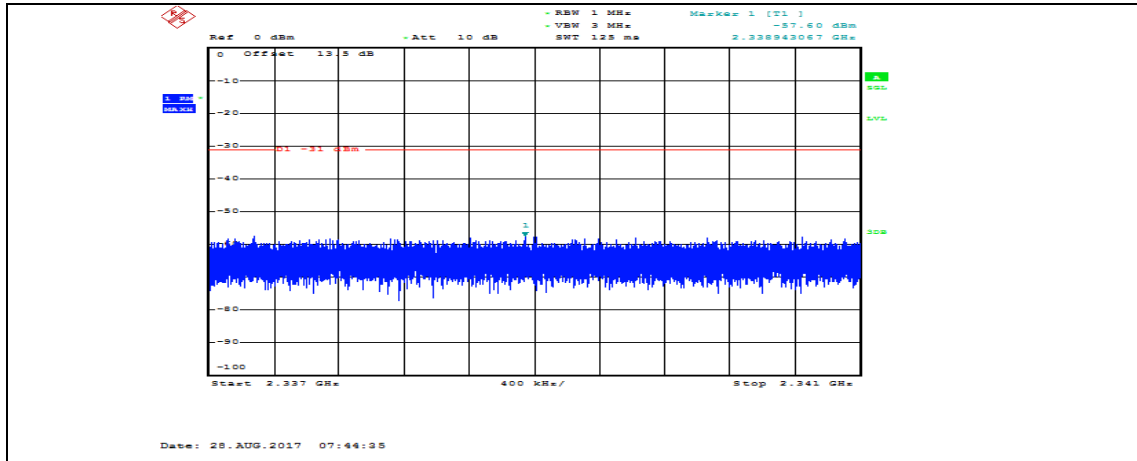
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

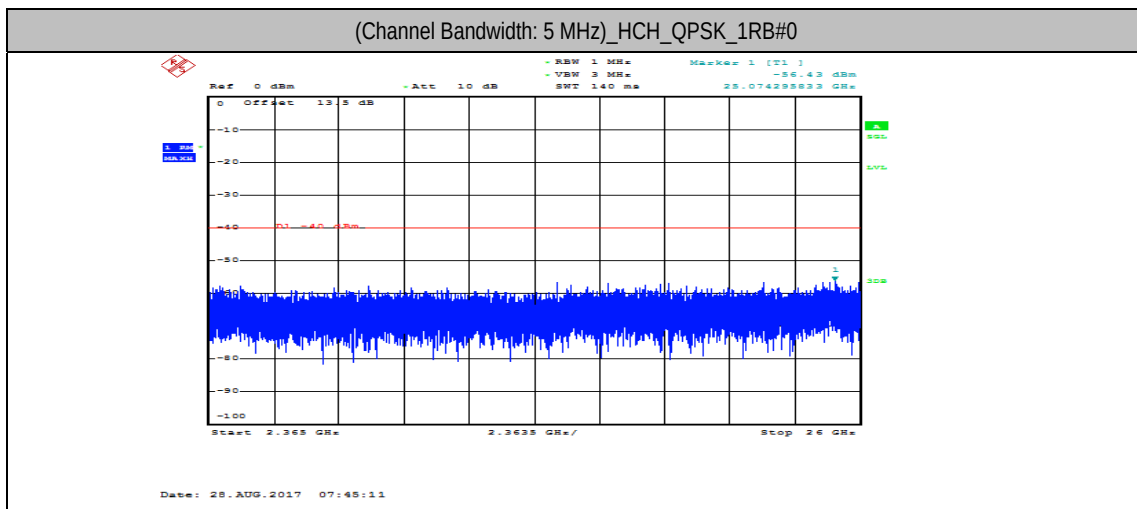
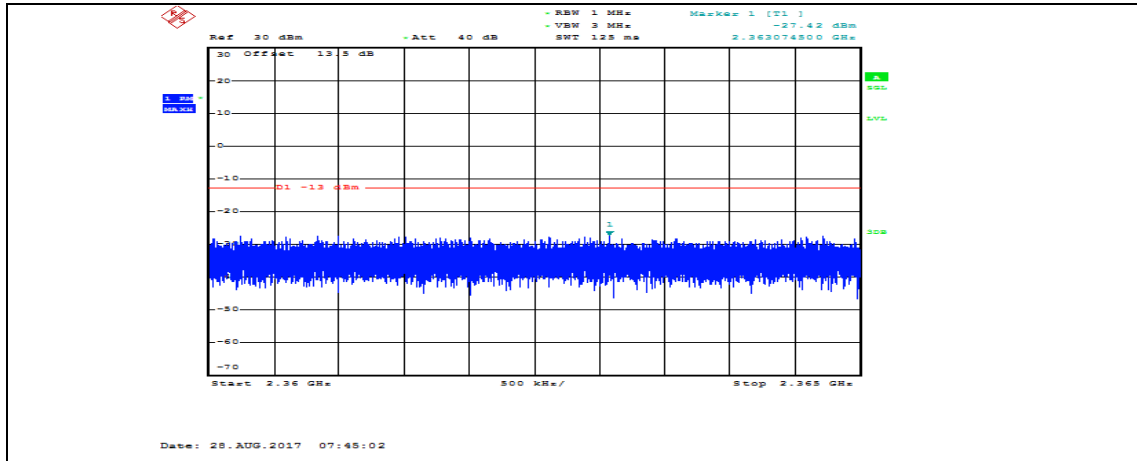


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



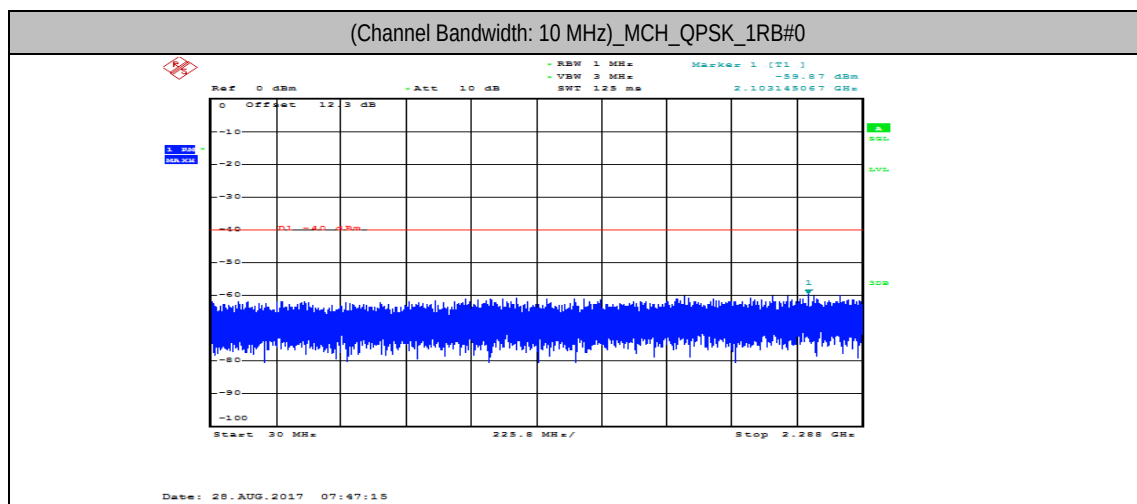
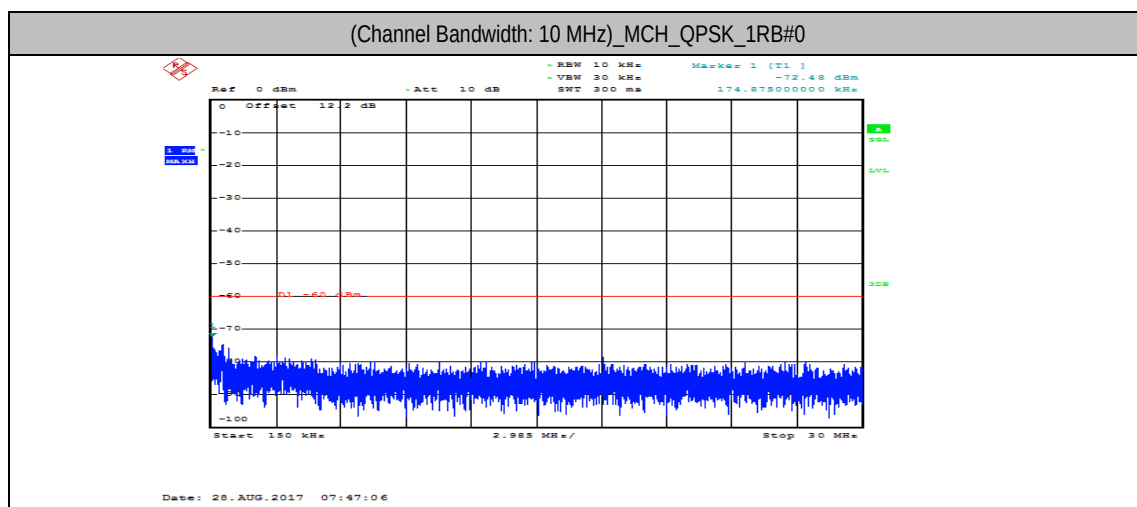
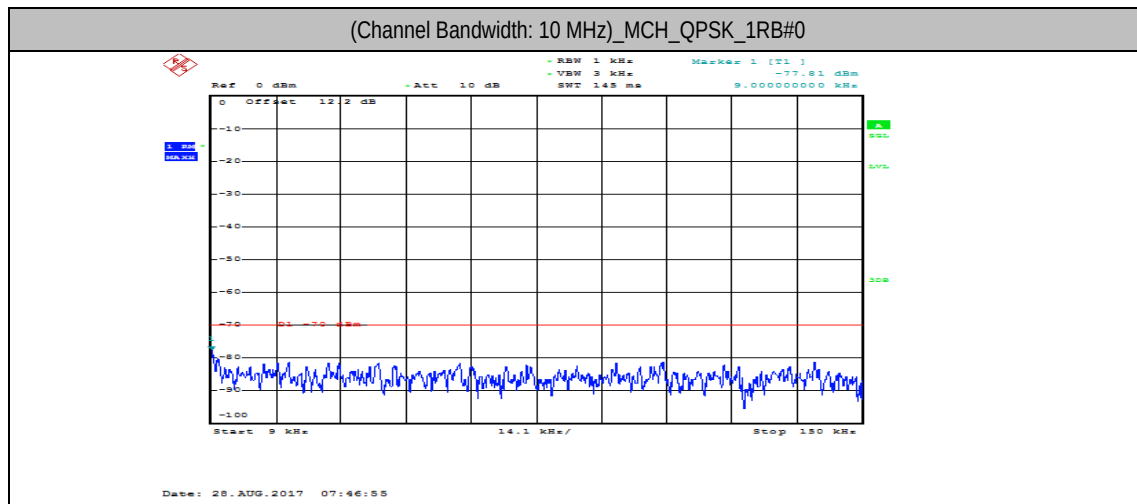
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

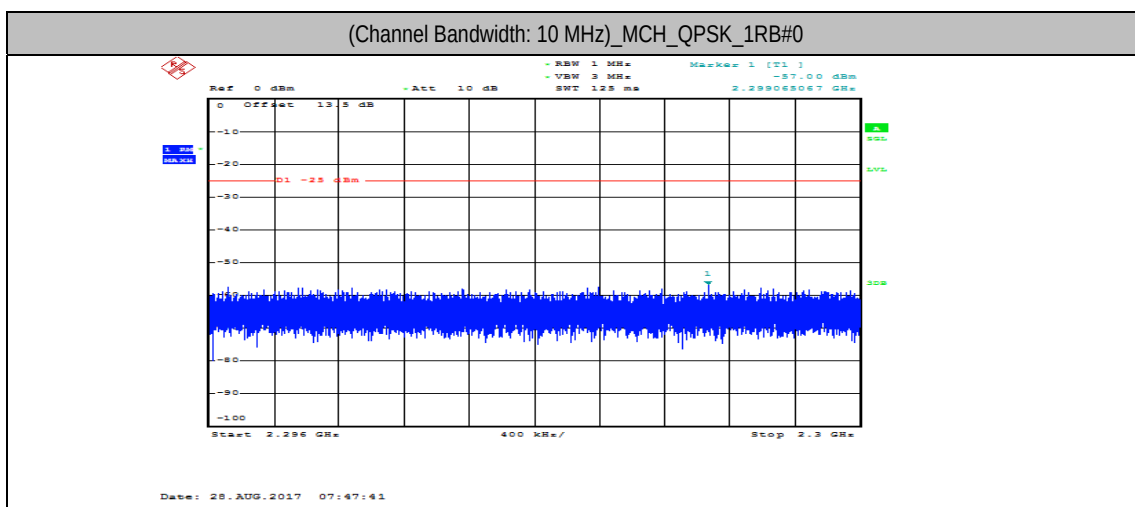
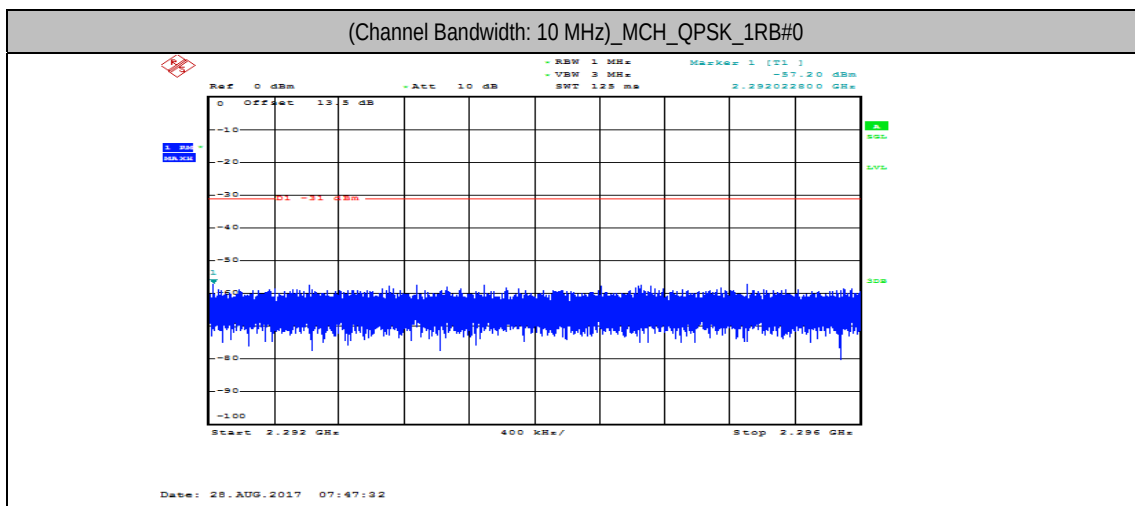
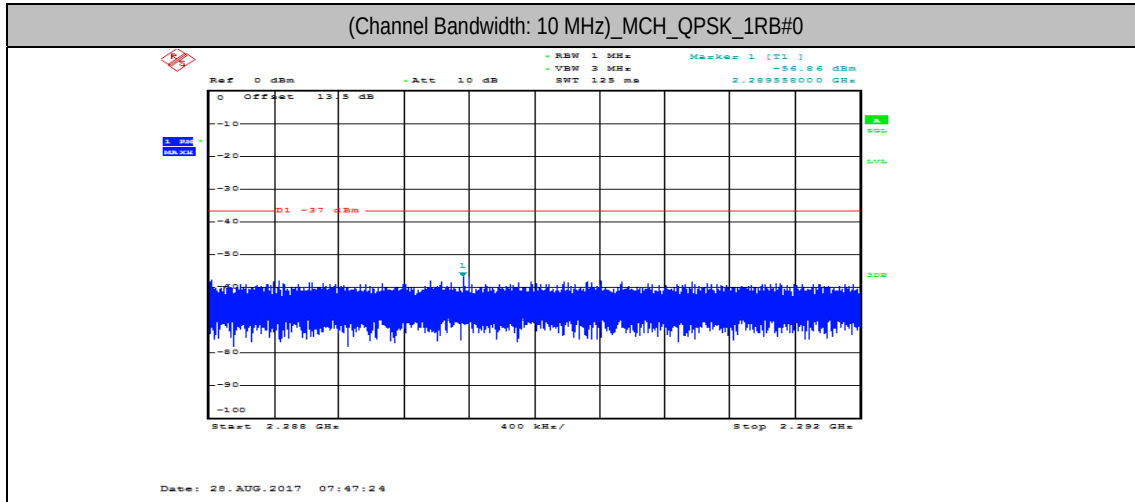


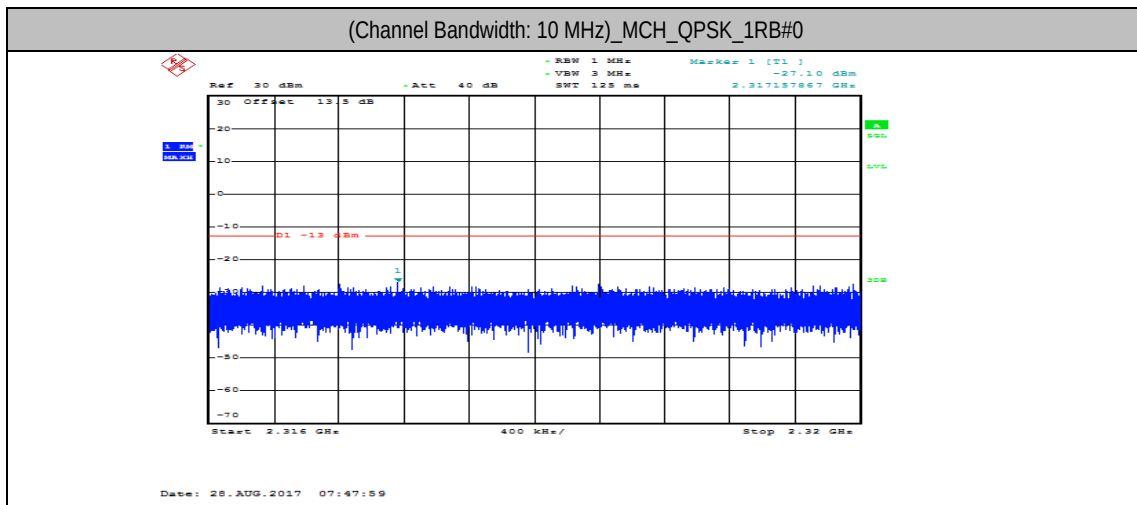
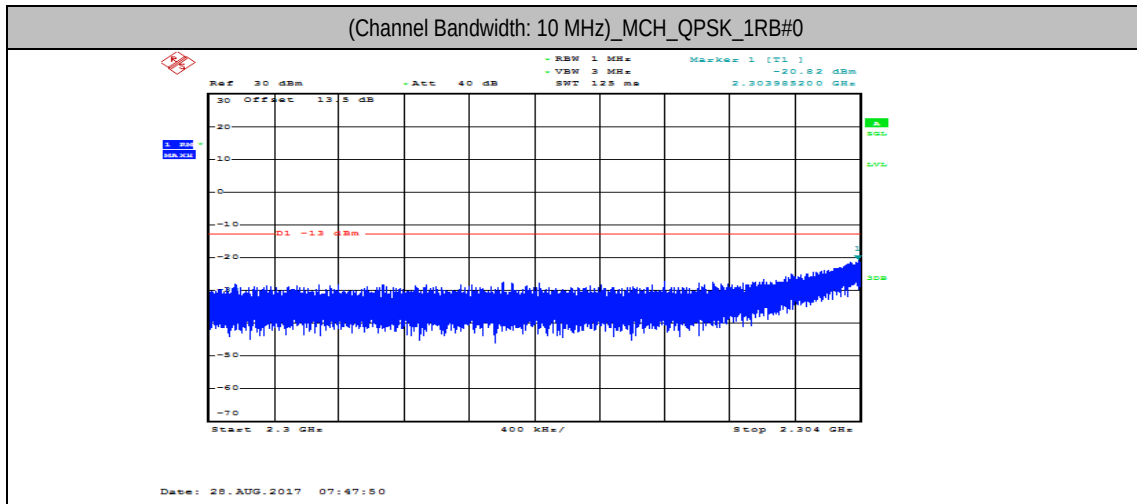




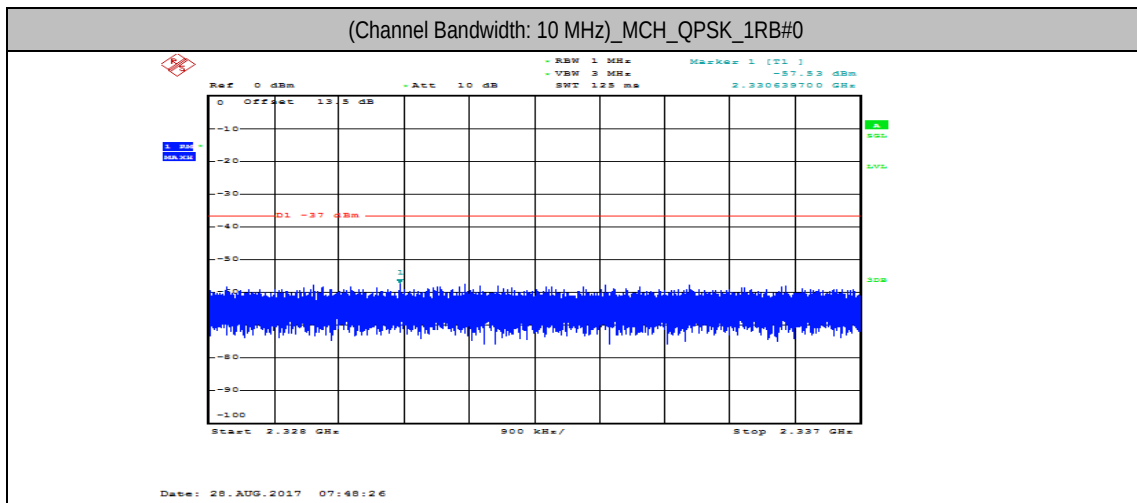
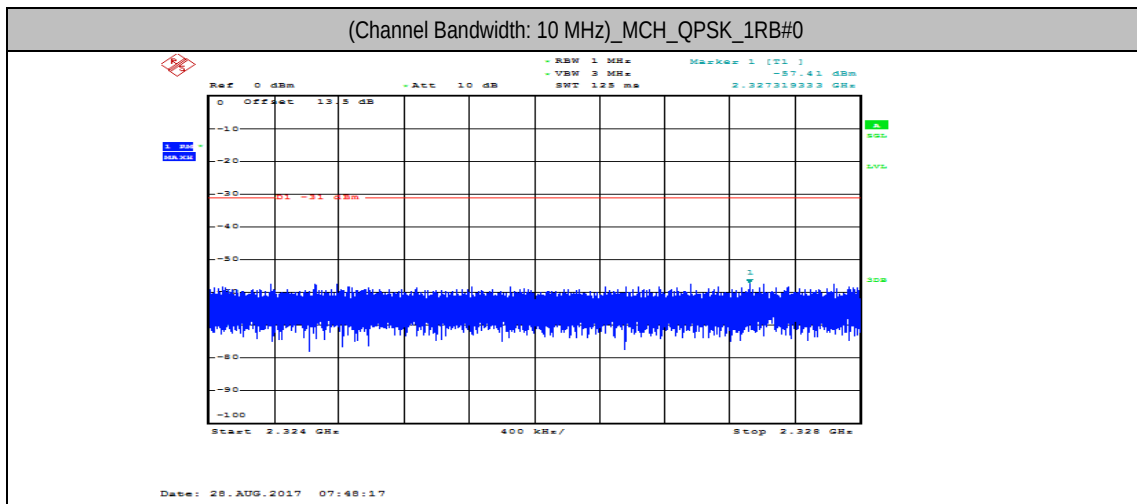
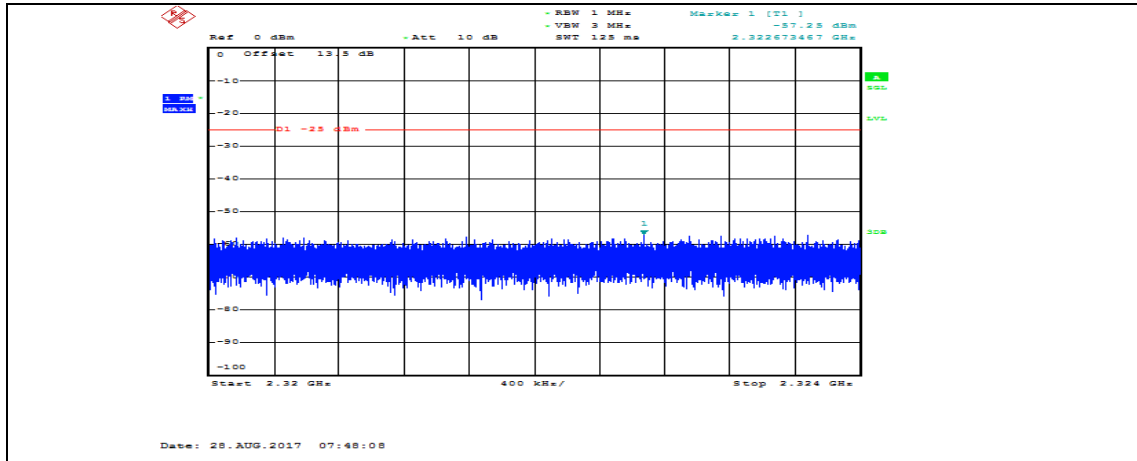
Channel Bandwidth: 10 MHz

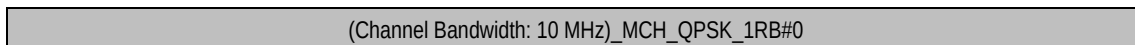
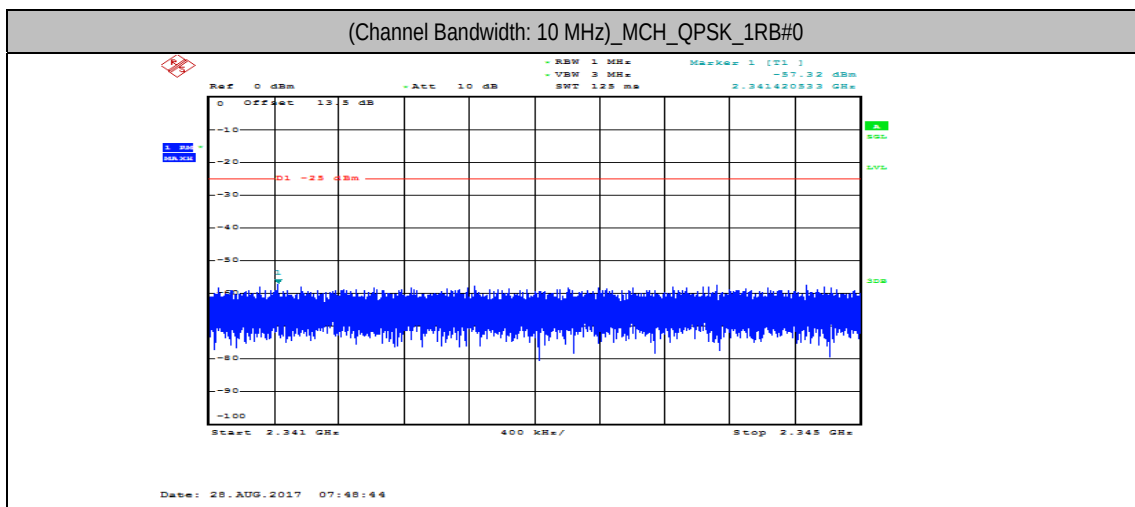
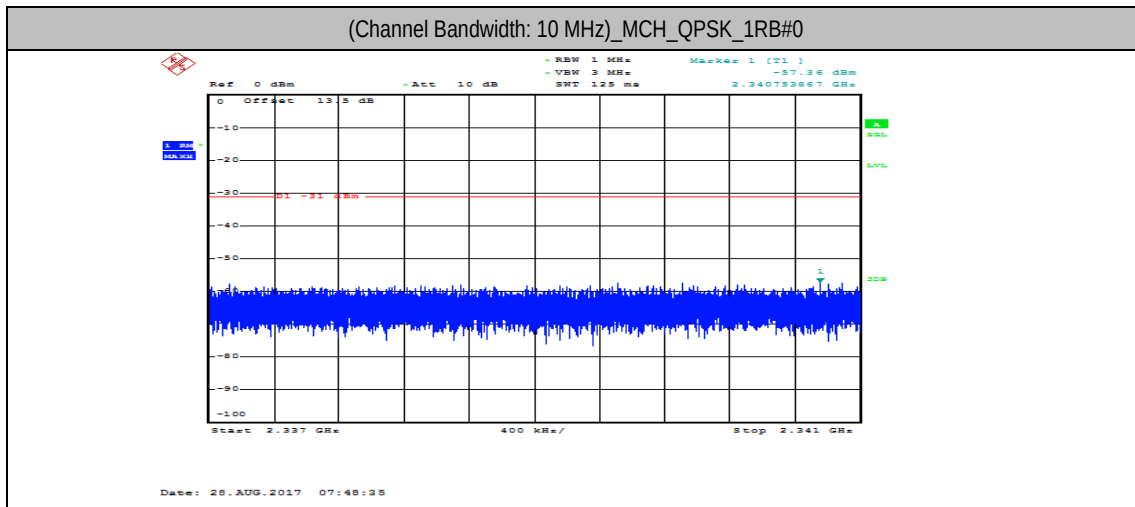


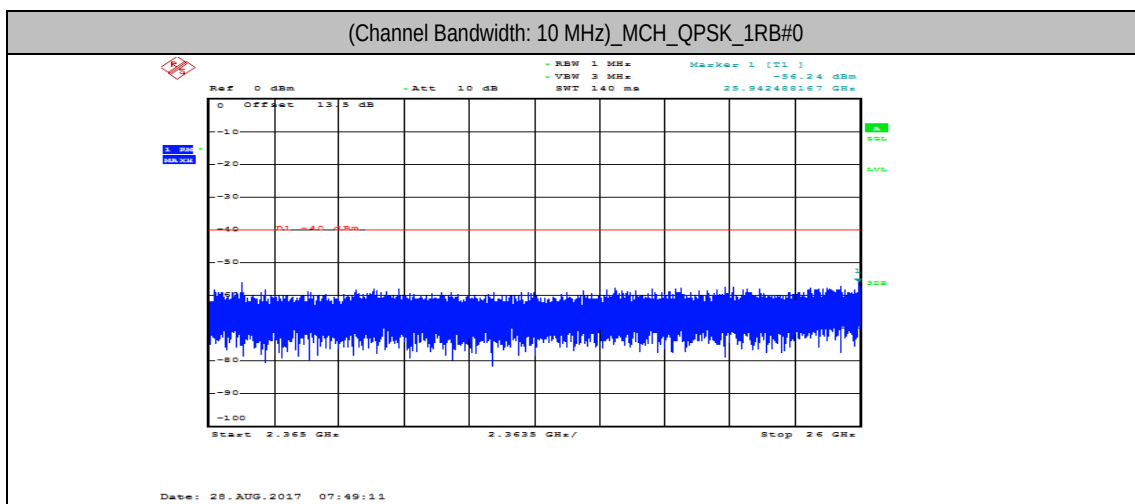
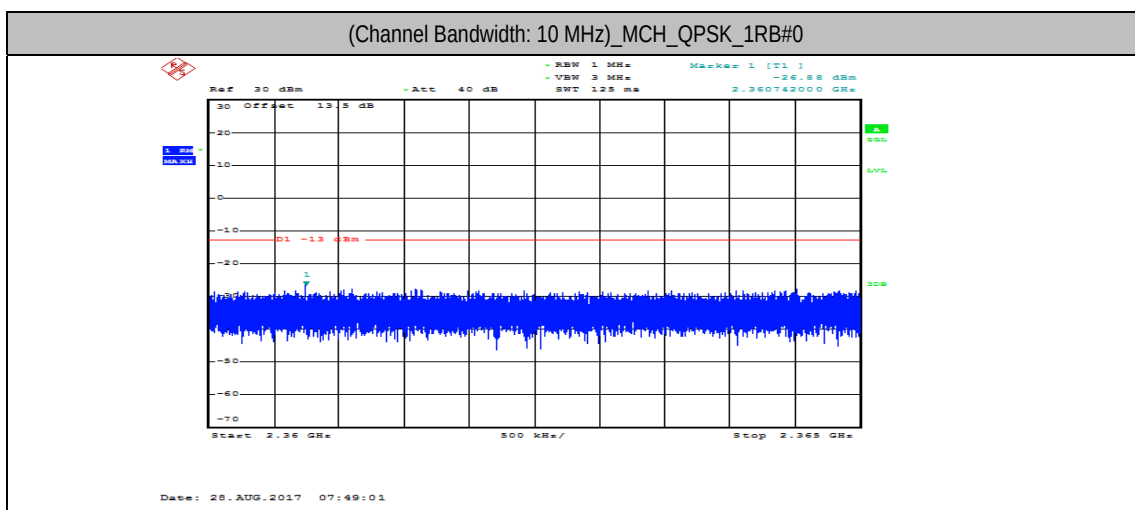
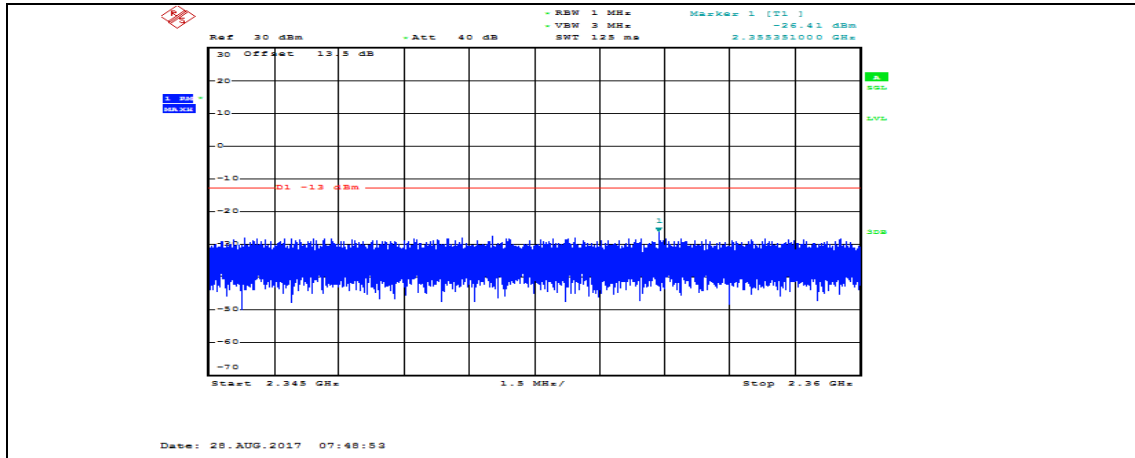




(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0









Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.30	-0.000130	± 2.5	PASS
		VN	TN	-10.10	-0.004377	± 2.5	PASS



		VH	TN	-3.20	-0.001387	± 2.5	PASS
	MCH	VL	TN	5.80	0.002511	± 2.5	PASS
		VN	TN	8.60	0.003723	± 2.5	PASS
		VH	TN	-3.30	-0.001429	± 2.5	PASS
	HCH	VL	TN	1.90	0.000822	± 2.5	PASS
		VN	TN	-0.50	-0.000216	± 2.5	PASS
		VH	TN	14.00	0.006054	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-5.50	-0.002384	± 2.5	PASS
		VN	-20	-7.20	-0.003120	± 2.5	PASS
		VN	-10	-1.40	-0.000607	± 2.5	PASS
		VN	0	-1.40	-0.000607	± 2.5	PASS
		VN	10	-10.40	-0.004507	± 2.5	PASS
		VN	20	-8.60	-0.003727	± 2.5	PASS
		VN	30	-9.70	-0.004204	± 2.5	PASS
		VN	40	2.00	0.000867	± 2.5	PASS
		VN	50	3.10	0.001343	± 2.5	PASS
	MCH	VN	-30	2.00	0.000866	± 2.5	PASS
		VN	-20	5.80	0.002511	± 2.5	PASS
		VN	-10	8.70	0.003766	± 2.5	PASS
		VN	0	-4.90	-0.002121	± 2.5	PASS
		VN	10	8.50	0.003680	± 2.5	PASS
		VN	20	7.50	0.003247	± 2.5	PASS
		VN	30	-9.30	-0.004026	± 2.5	PASS
		VN	40	-7.30	-0.003160	± 2.5	PASS
		VN	50	-2.40	-0.001039	± 2.5	PASS
	HCH	VN	-30	14.30	0.006184	± 2.5	PASS
		VN	-20	2.20	0.000951	± 2.5	PASS
		VN	-10	12.70	0.005492	± 2.5	PASS
		VN	0	16.70	0.007222	± 2.5	PASS
		VN	10	12.40	0.005362	± 2.5	PASS
		VN	20	1.30	0.000562	± 2.5	PASS
		VN	30	14.30	0.006184	± 2.5	PASS
		VN	40	2.70	0.001168	± 2.5	PASS
	VN	50	-0.80	-0.000346	± 2.5	PASS	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VL	TN	8.80	0.003810	± 2.5	PASS
		VN	TN	7.60	0.003290	± 2.5	PASS
		VH	TN	2.90	0.001255	± 2.5	PASS
Temperature							



Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VN	-30	1.90	0.000823	± 2.5	PASS
		VN	-20	5.10	0.002208	± 2.5	PASS
		VN	-10	8.00	0.003463	± 2.5	PASS
		VN	0	9.30	0.004026	± 2.5	PASS
		VN	10	2.20	0.000952	± 2.5	PASS
		VN	20	6.50	0.002814	± 2.5	PASS
		VN	30	-2.00	-0.000866	± 2.5	PASS
		VN	40	5.70	0.002468	± 2.5	PASS
		VN	50	-6.70	-0.002900	± 2.5	PASS