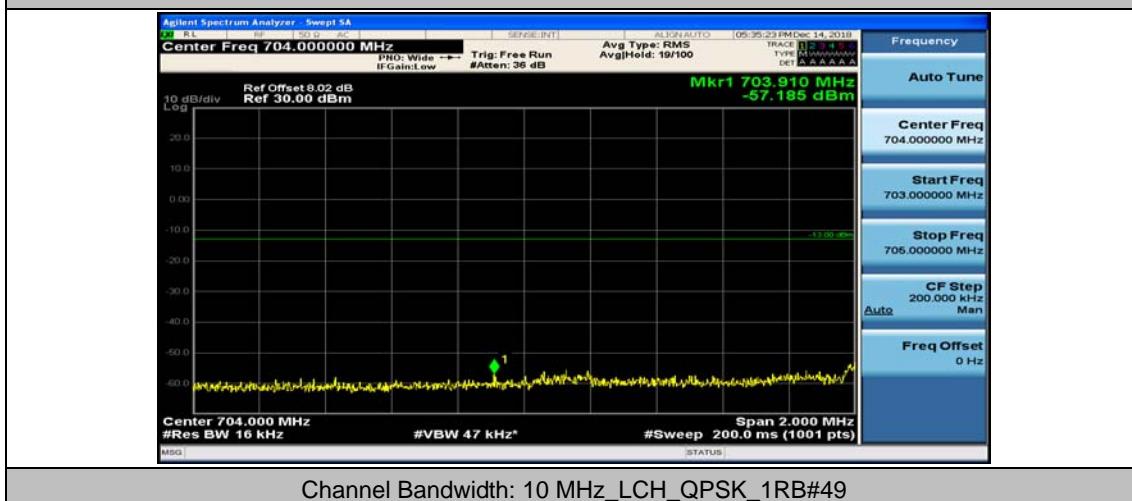




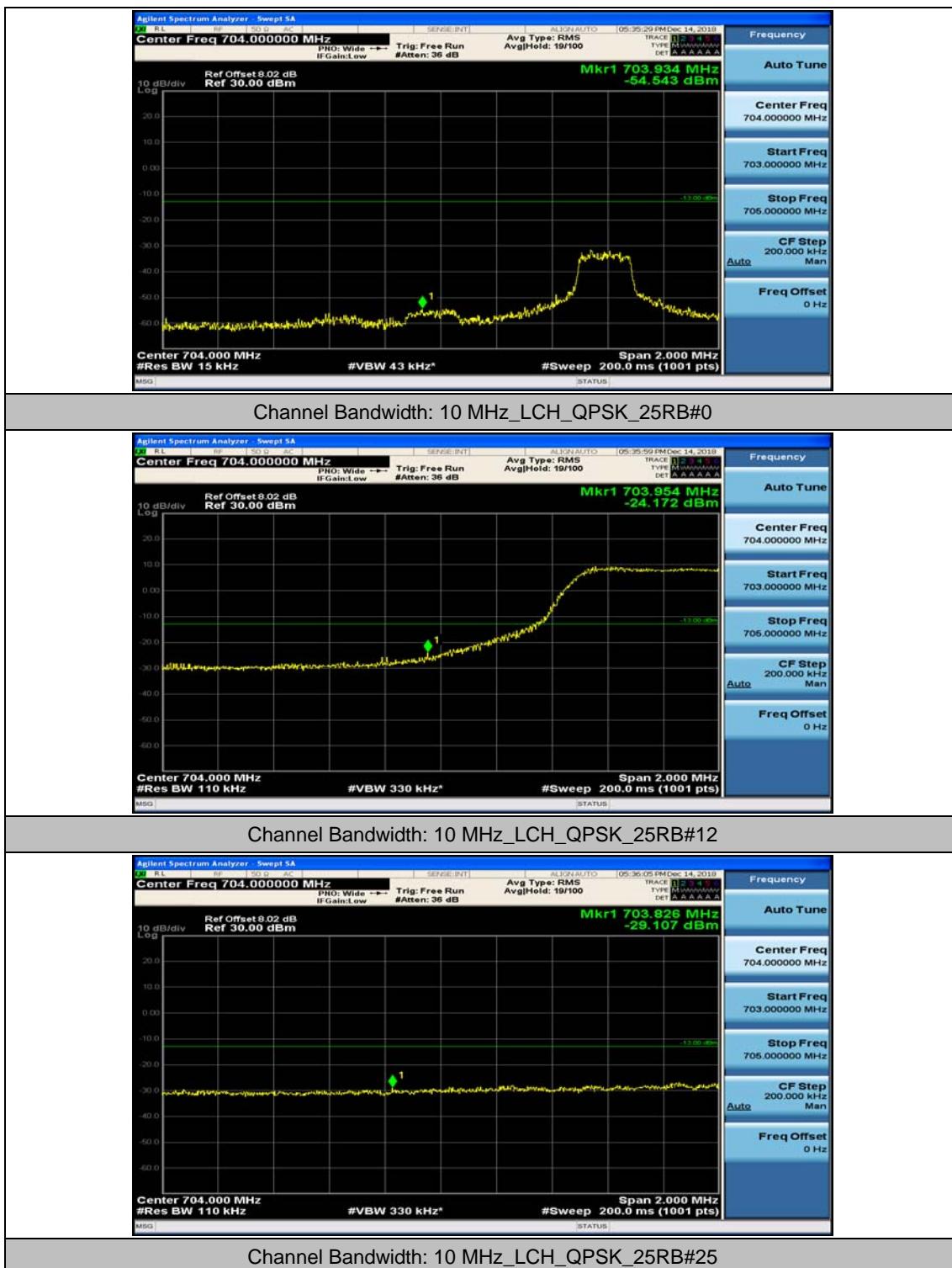
## Channel Bandwidth: 10 MHz



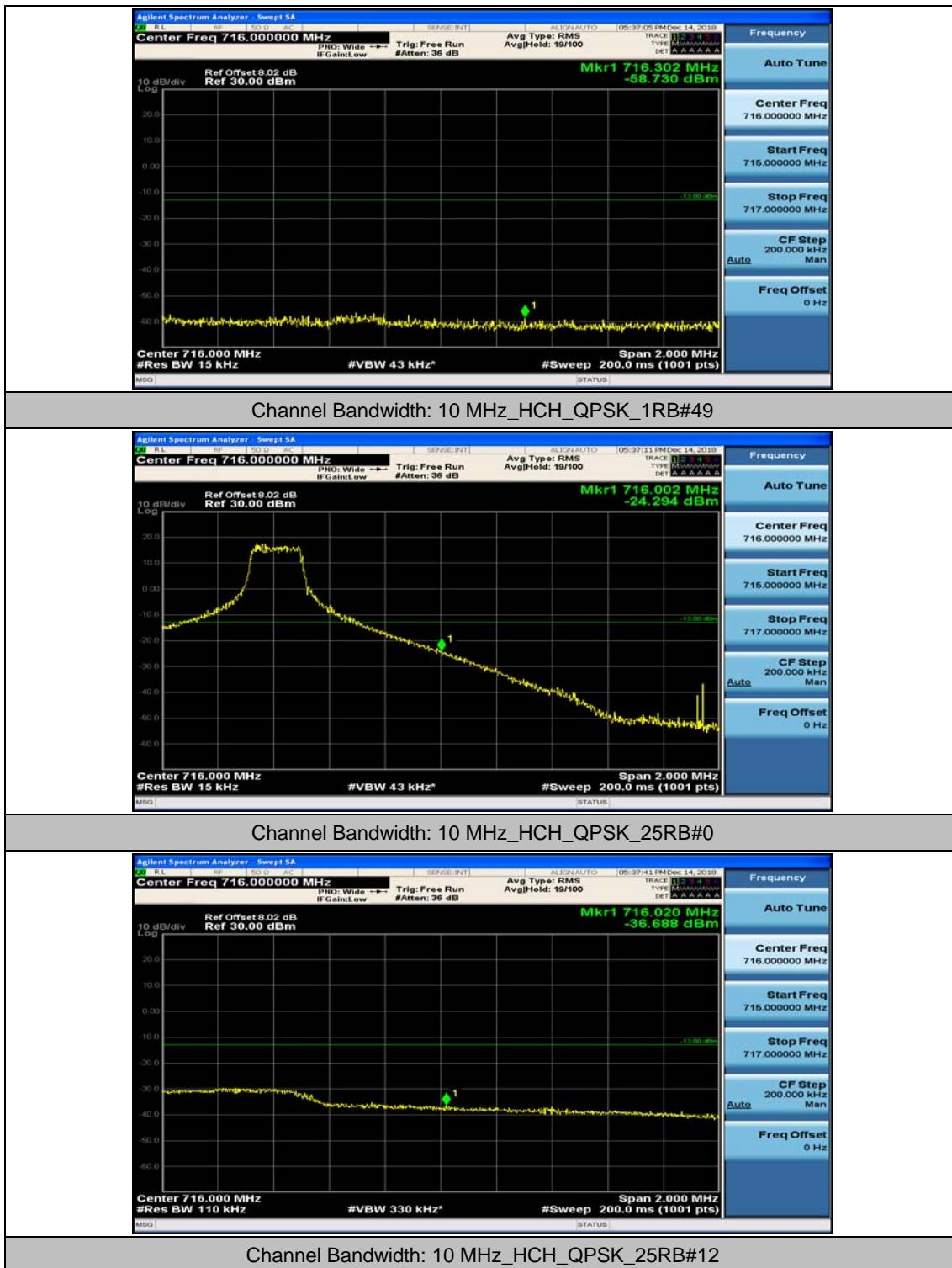
## Channel Bandwidth: 10 MHz\_LCH\_QPSK\_1RB#24

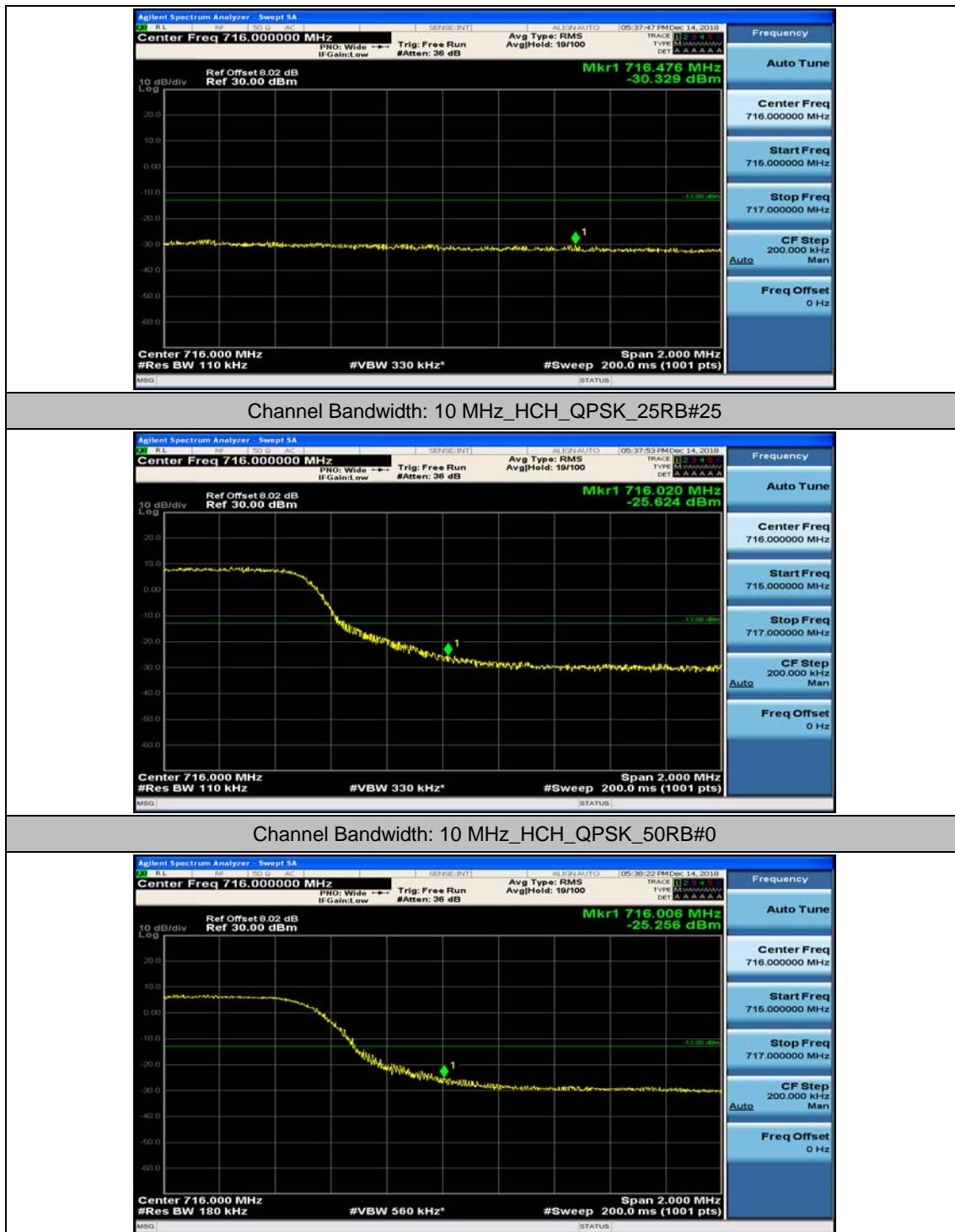


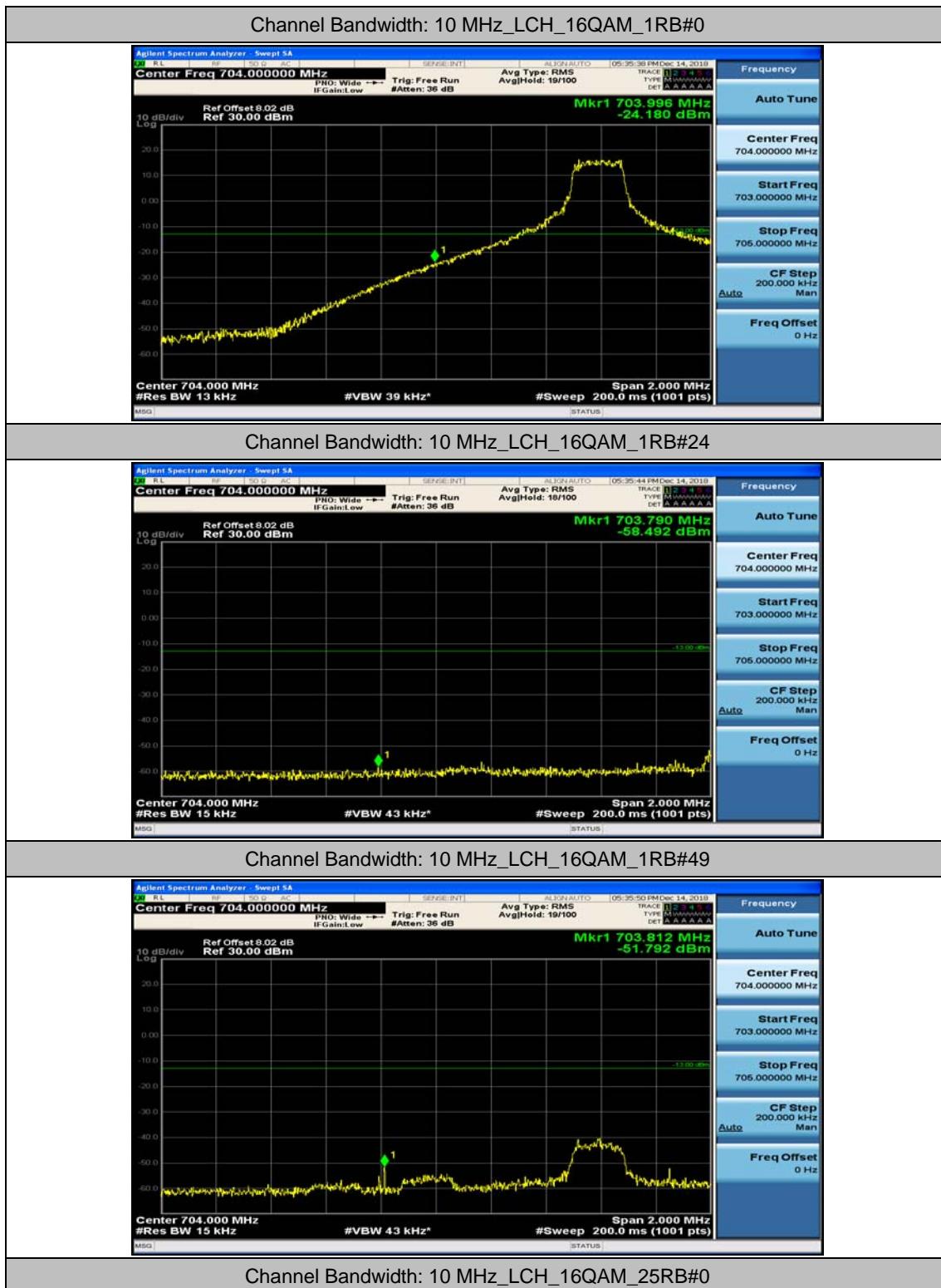
## Channel Bandwidth: 10 MHz\_LCH\_QPSK\_1RB#49

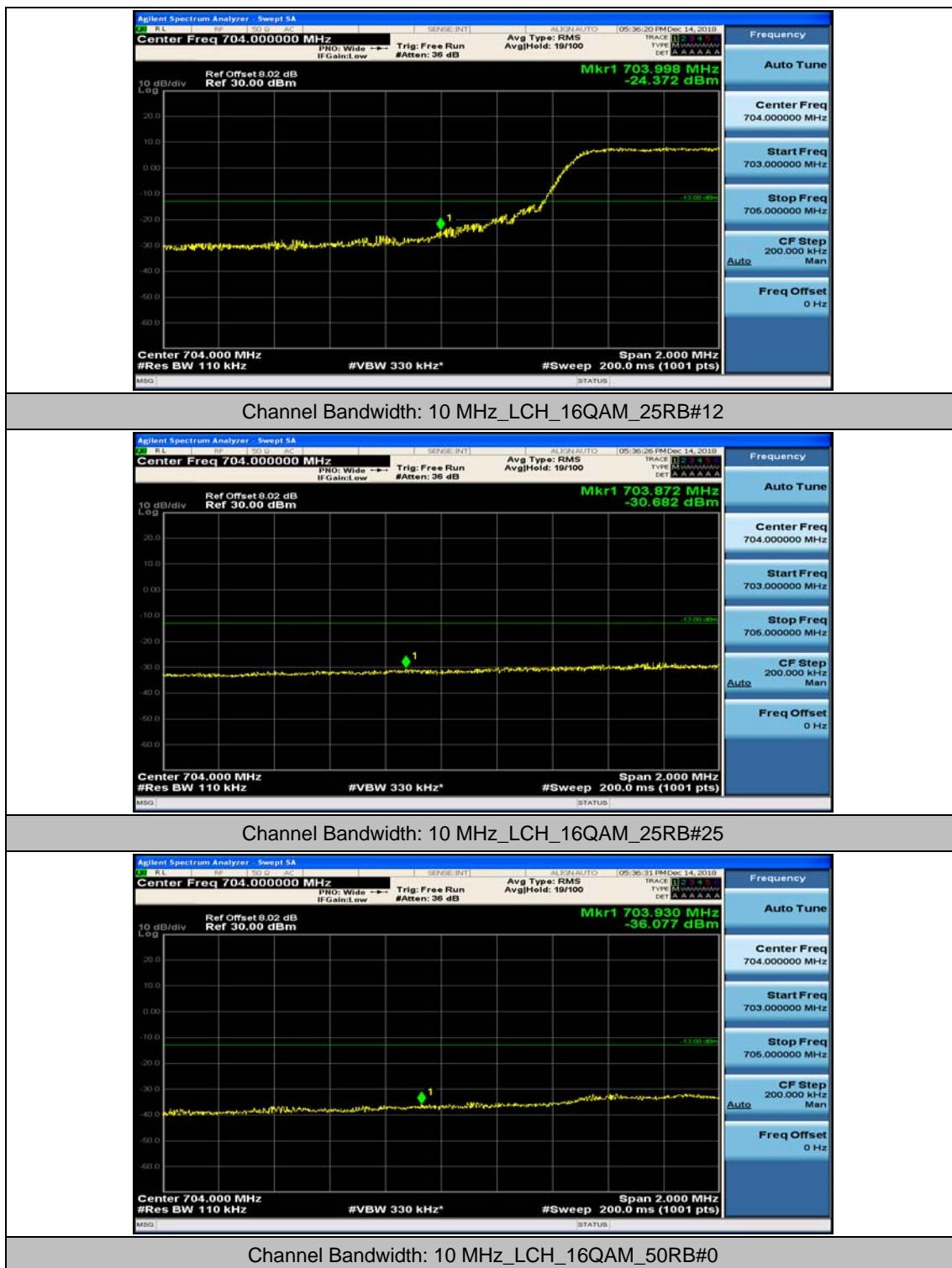


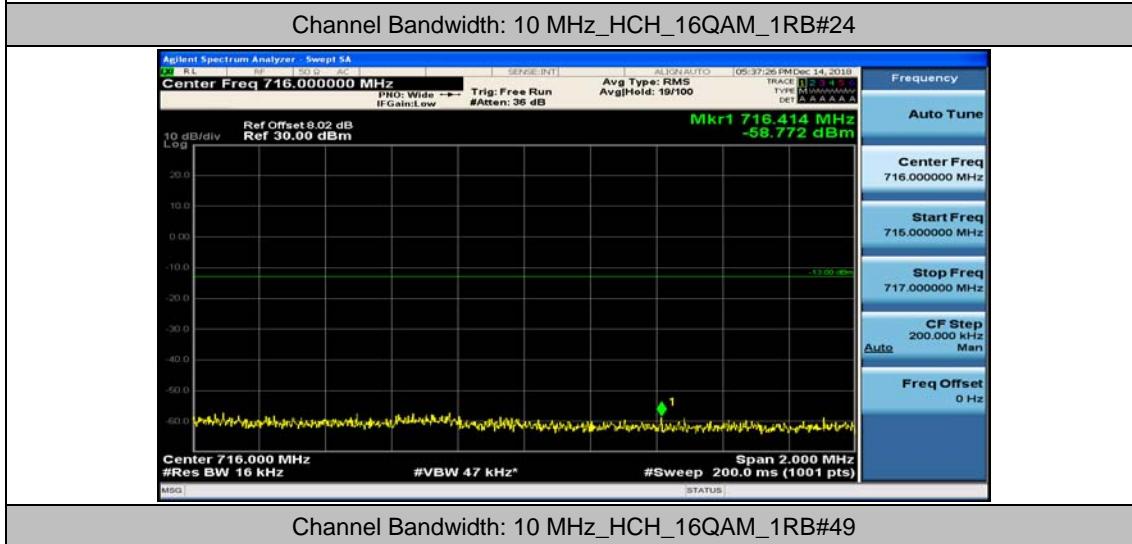
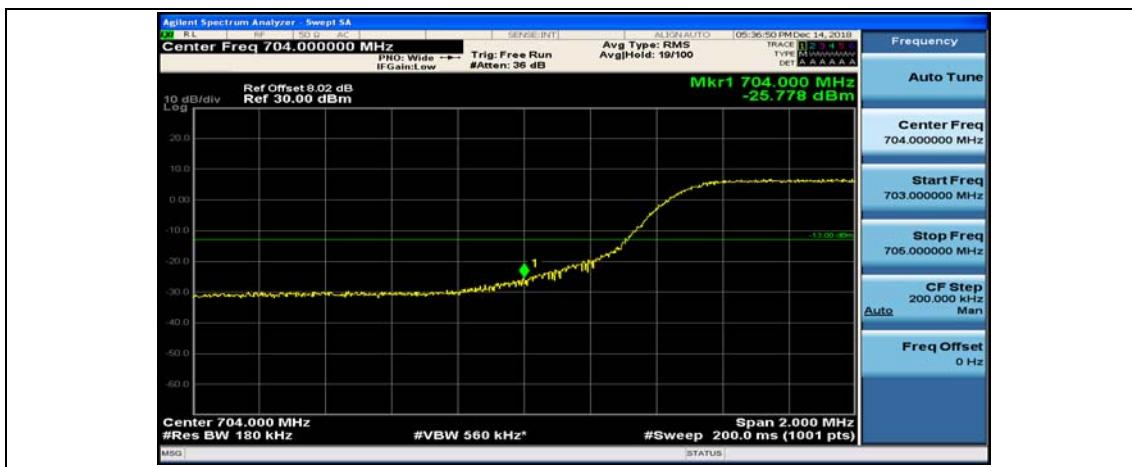




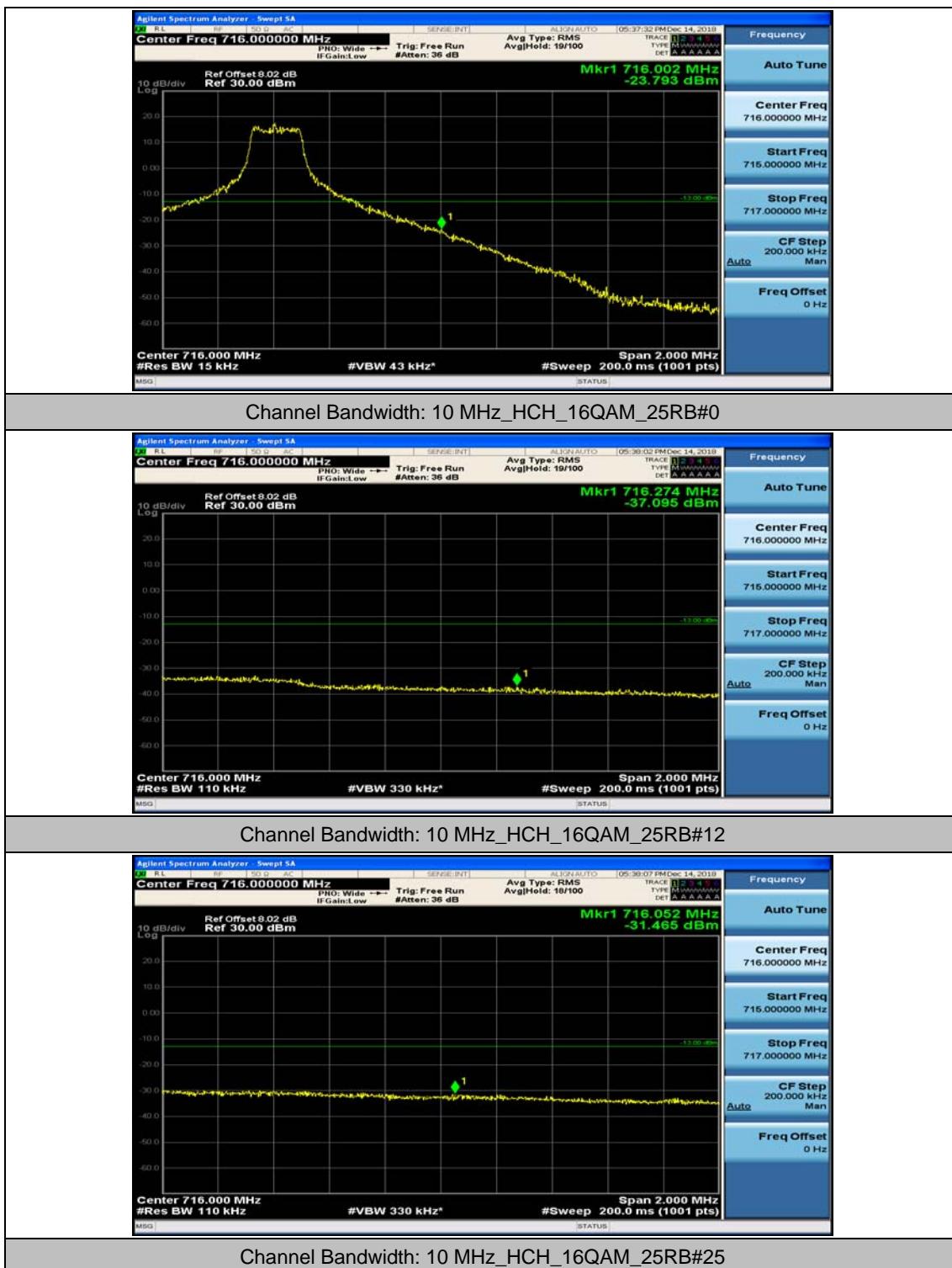


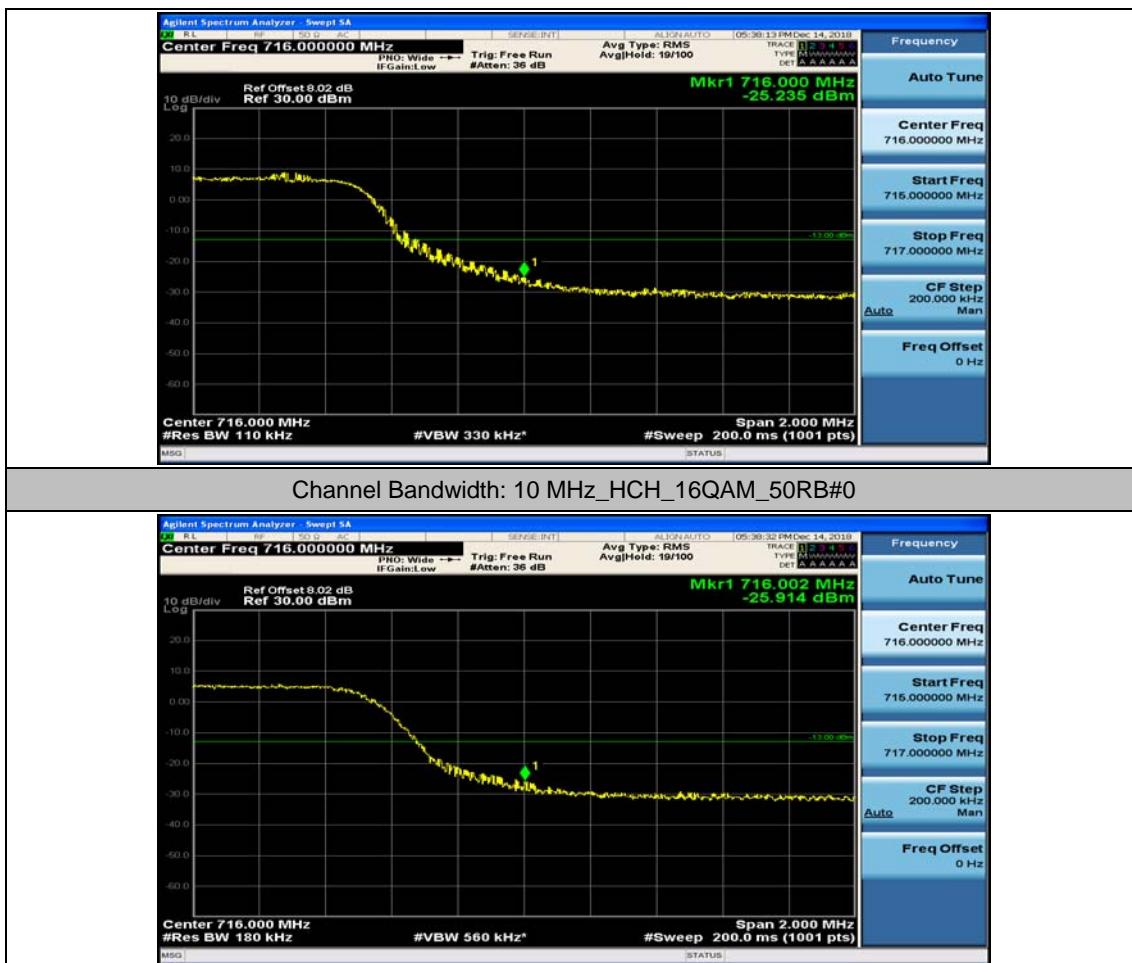






**Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49**





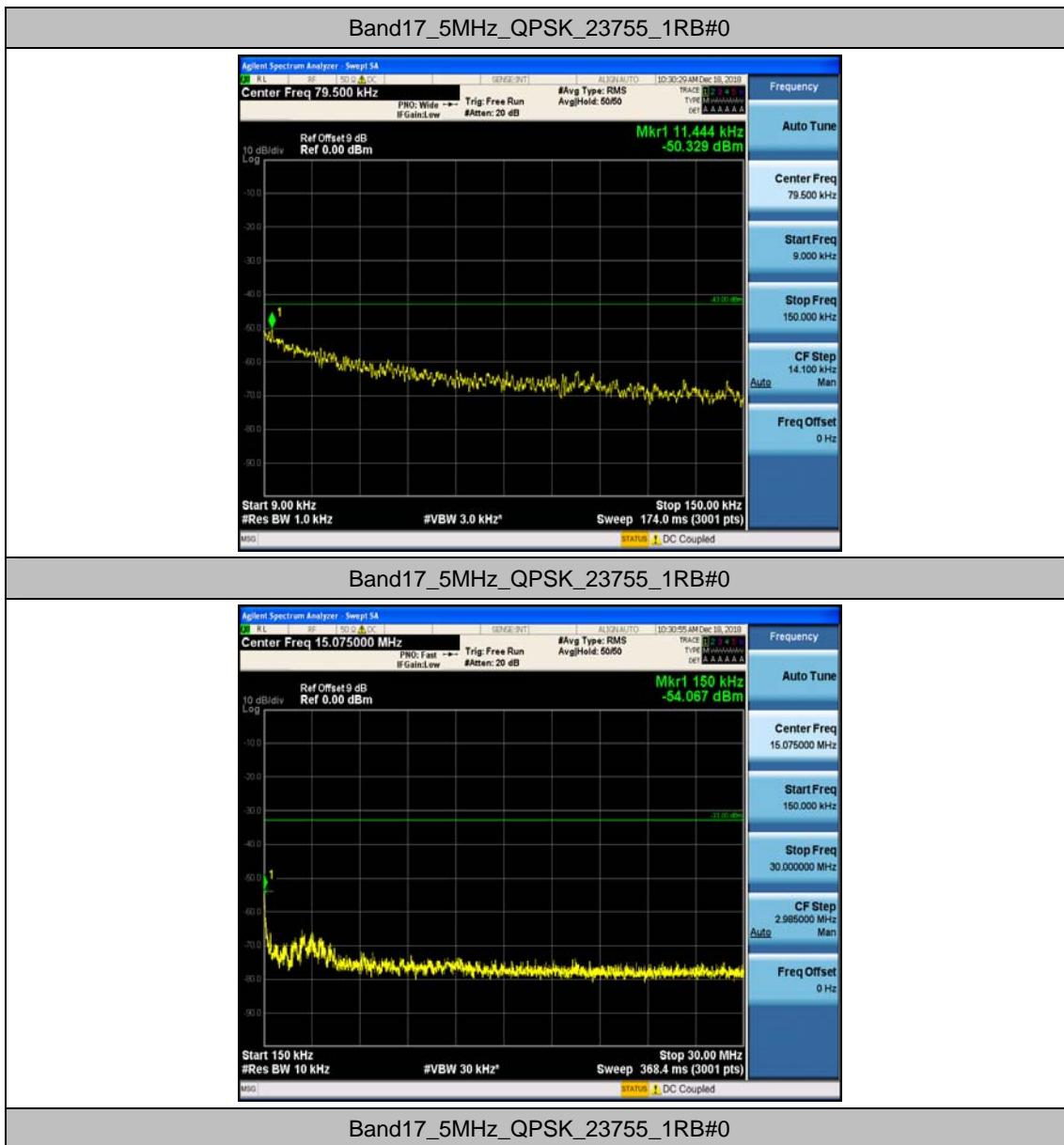
## Appendix E: Conducted Spurious Emission

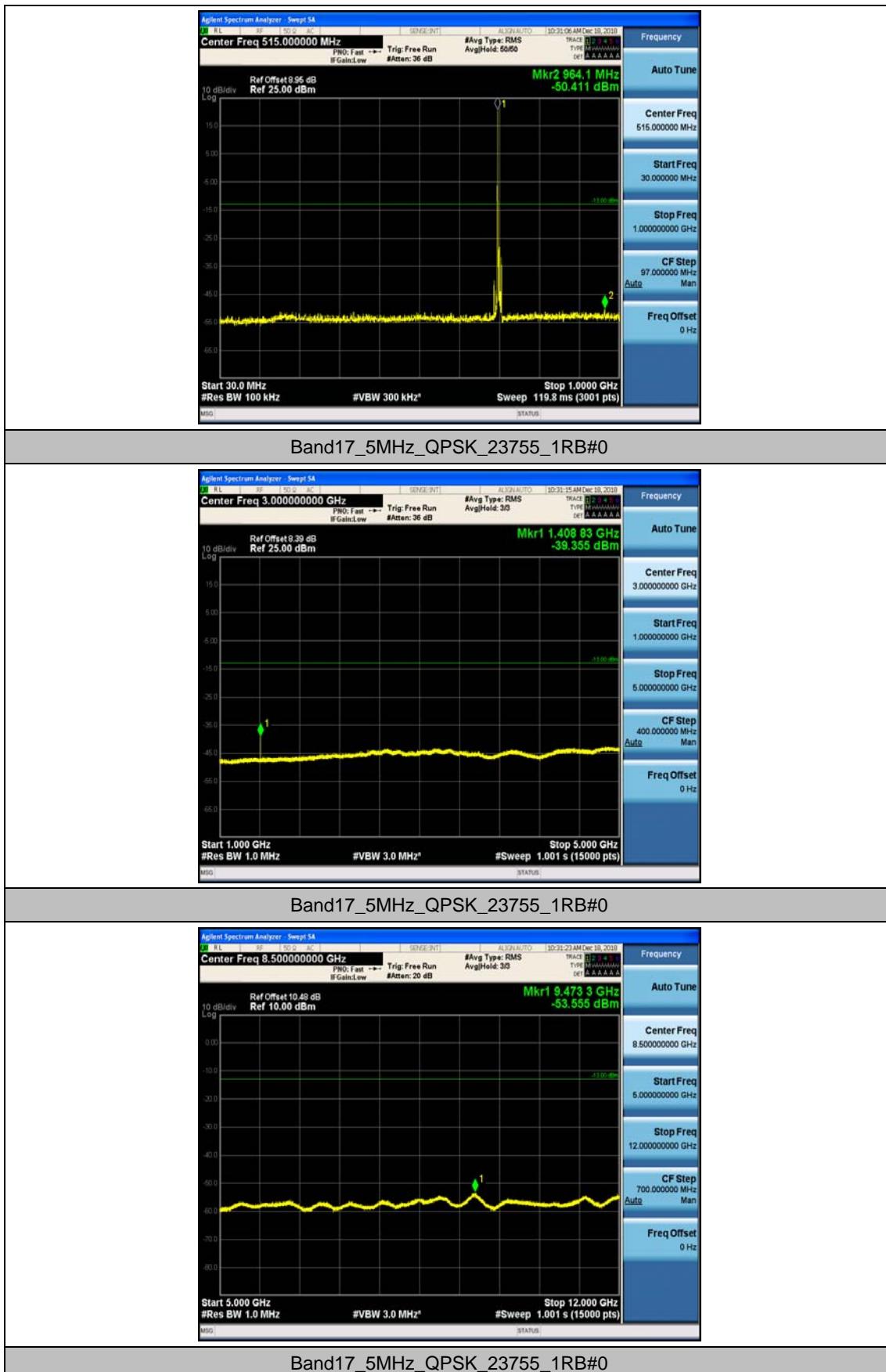
### Test Result

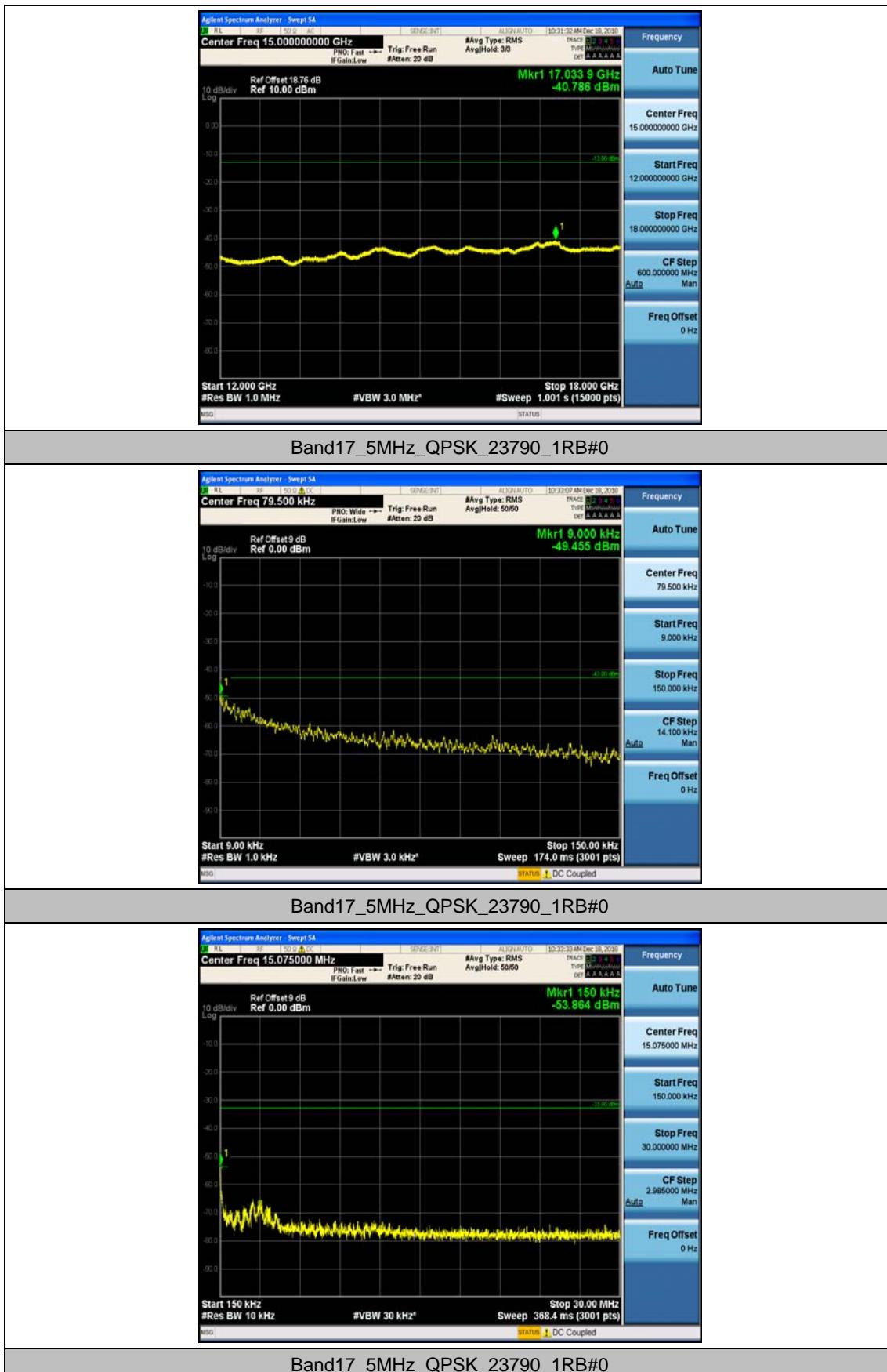
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	-50.33	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-54.07	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-50.41	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~5000MHz	-39.36	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range5:5000~12000MHz	-53.56	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range6:12000~18000MHz	-40.79	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-49.46	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-53.86	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-50.06	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~5000MHz	-41.68	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range5:5000~12000MHz	-53.31	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range6:12000~18000MHz	-40.58	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	-50.47	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-54.06	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-50.7	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~5000MHz	-42.35	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range5:5000~12000MHz	-53.25	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range6:12000~18000MHz	-40.9	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	-49.51	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-52.83	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-50.54	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~5000MHz	-39.02	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range5:5000~12000MHz	-53.36	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range6:12000~18000MHz	-40.75	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-49.62	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-53.76	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-50.27	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~5000MHz	-42.25	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range5:5000~12000MHz	-53.4	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range6:12000~18000MHz	-40.73	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	-47.87	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-54.4	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-50.16	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~5000MHz	-42.7	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range5:5000~12000MHz	-53.35	PASS

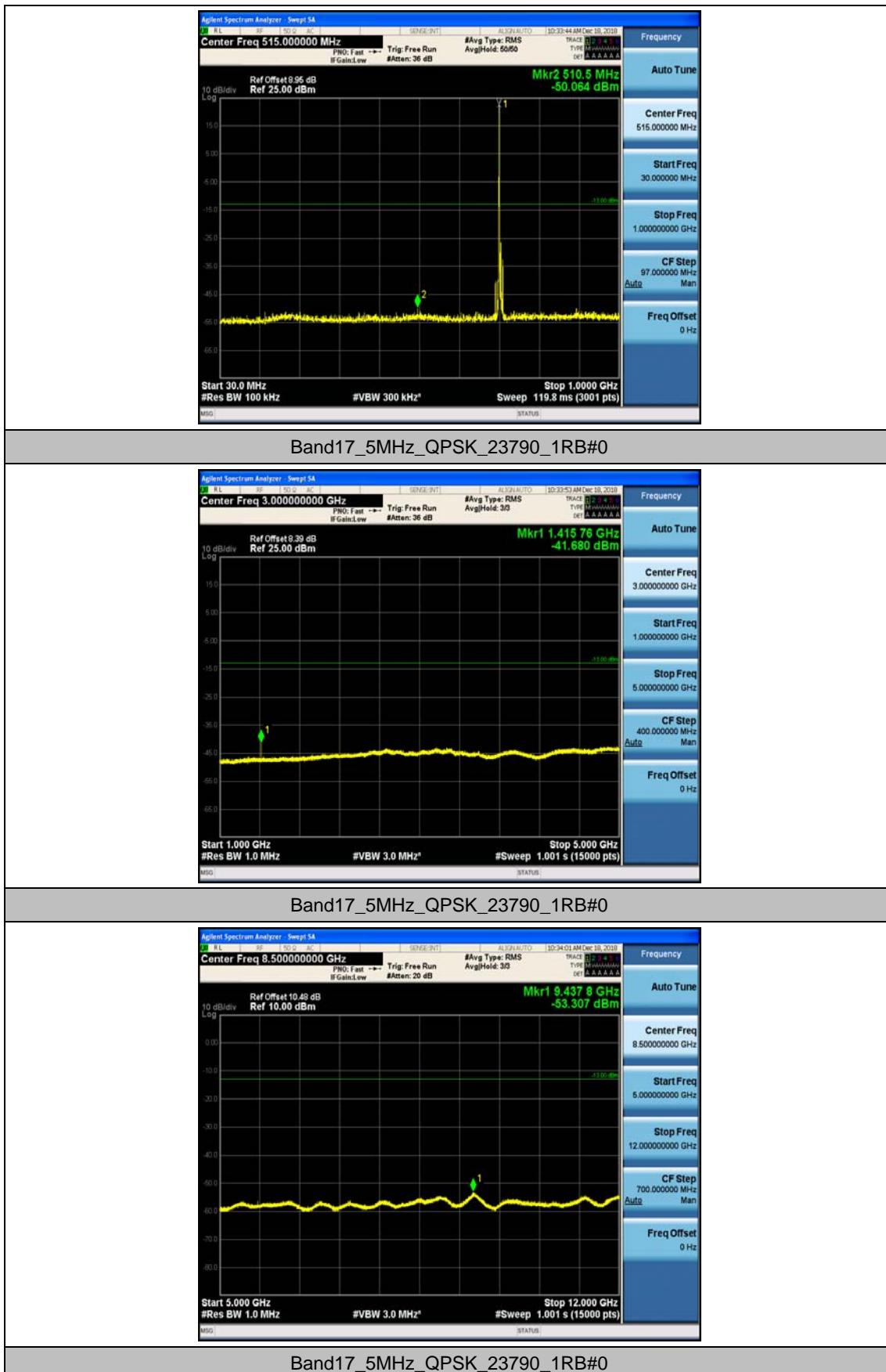
Band17	5MHz	16QAM	23825	1RB#0	Range6:12000~18000MHz	-40.85	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	-50.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-55.1	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-50.42	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~5000MHz	-38.88	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range5:5000~12000MHz	-53.43	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range6:12000~18000MHz	-40.5	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-49.67	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-54.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-50.21	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~5000MHz	-38.11	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range5:5000~12000MHz	-53.25	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range6:12000~18000MHz	-40.57	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	-50.38	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-53.32	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-50.18	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~5000MHz	-39.83	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range5:5000~12000MHz	-53.47	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range6:12000~18000MHz	-40.79	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	-49.94	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-54.33	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-50.16	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~5000MHz	-39.45	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range5:5000~12000MHz	-53.4	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range6:12000~18000MHz	-40.83	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-50.25	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-52.59	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-50.47	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~5000MHz	-39.05	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range5:5000~12000MHz	-53.2	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range6:12000~18000MHz	-40.6	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	-50.62	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-54.47	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-50.9	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~5000MHz	-40.1	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range5:5000~12000MHz	-53.14	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range6:12000~18000MHz	-40.73	PASS

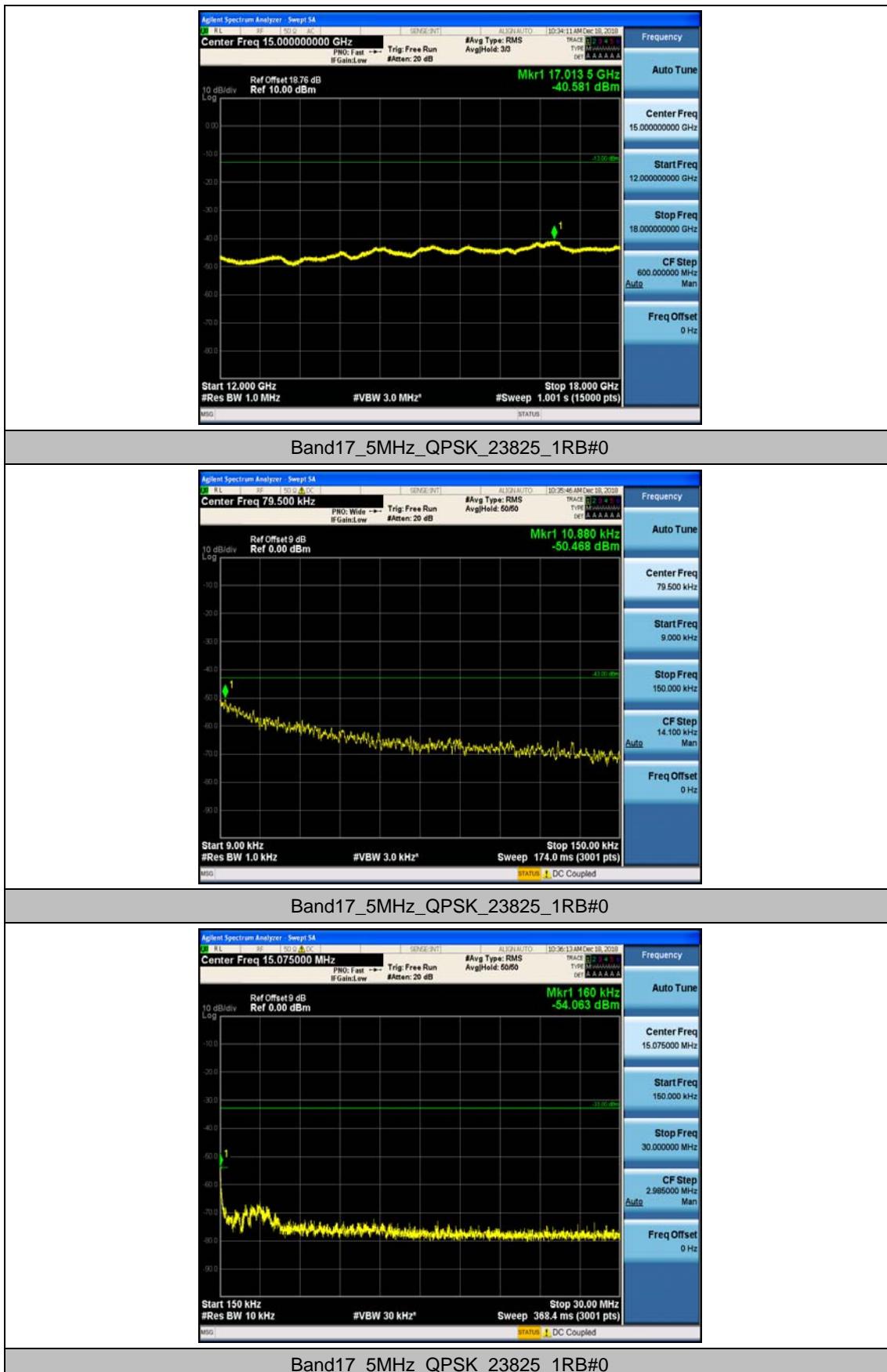
## Test Graphs

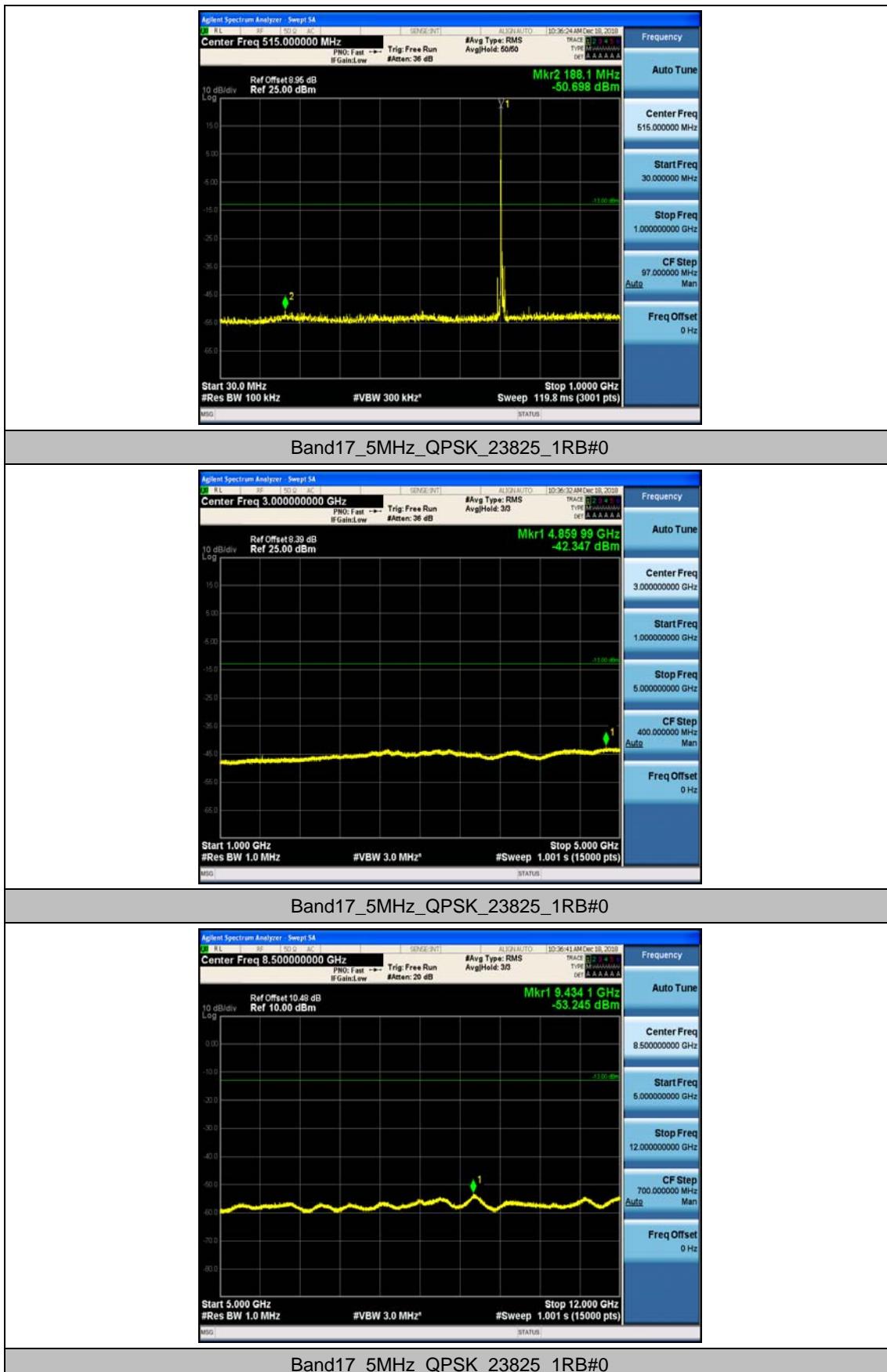


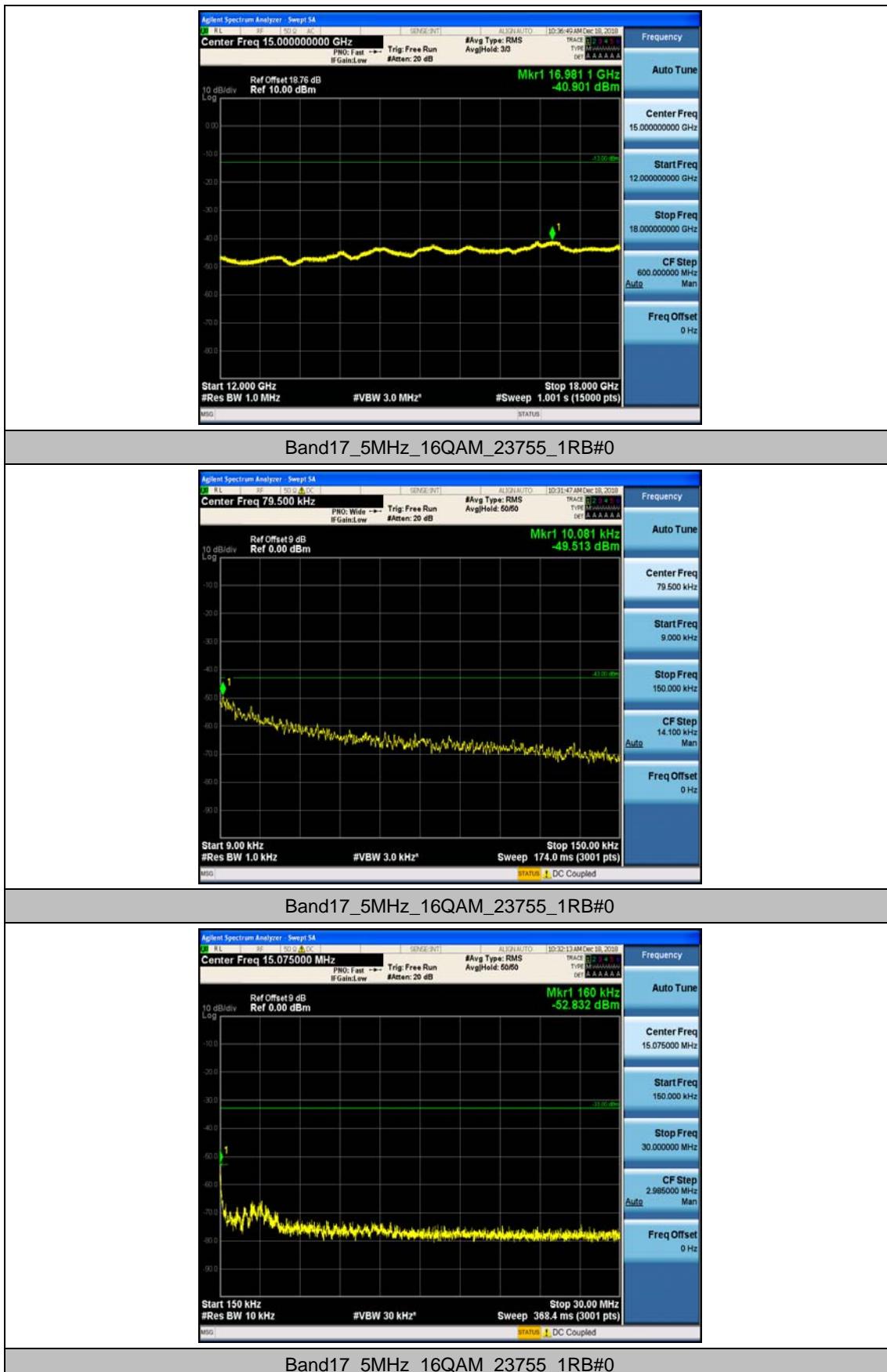


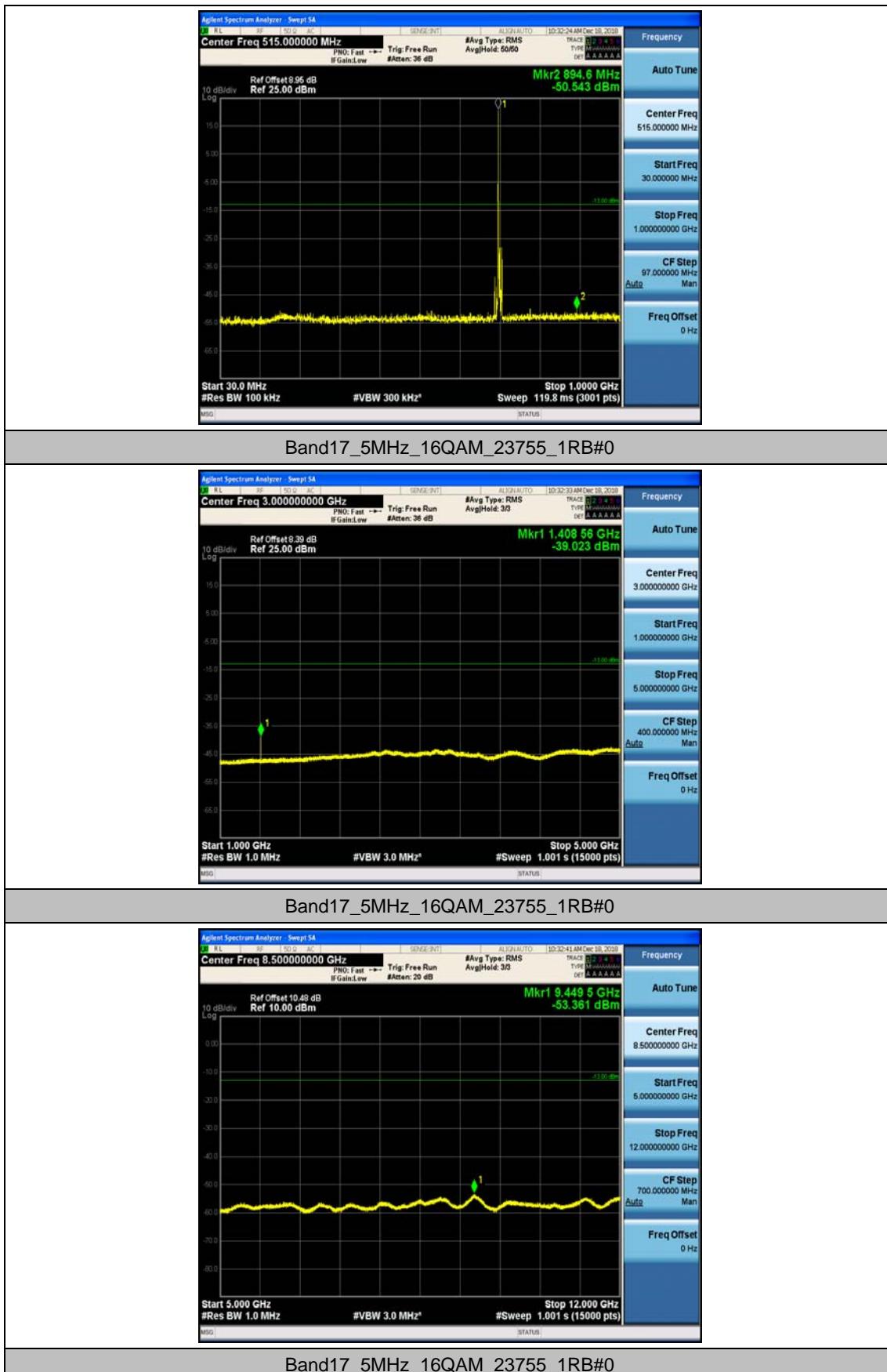


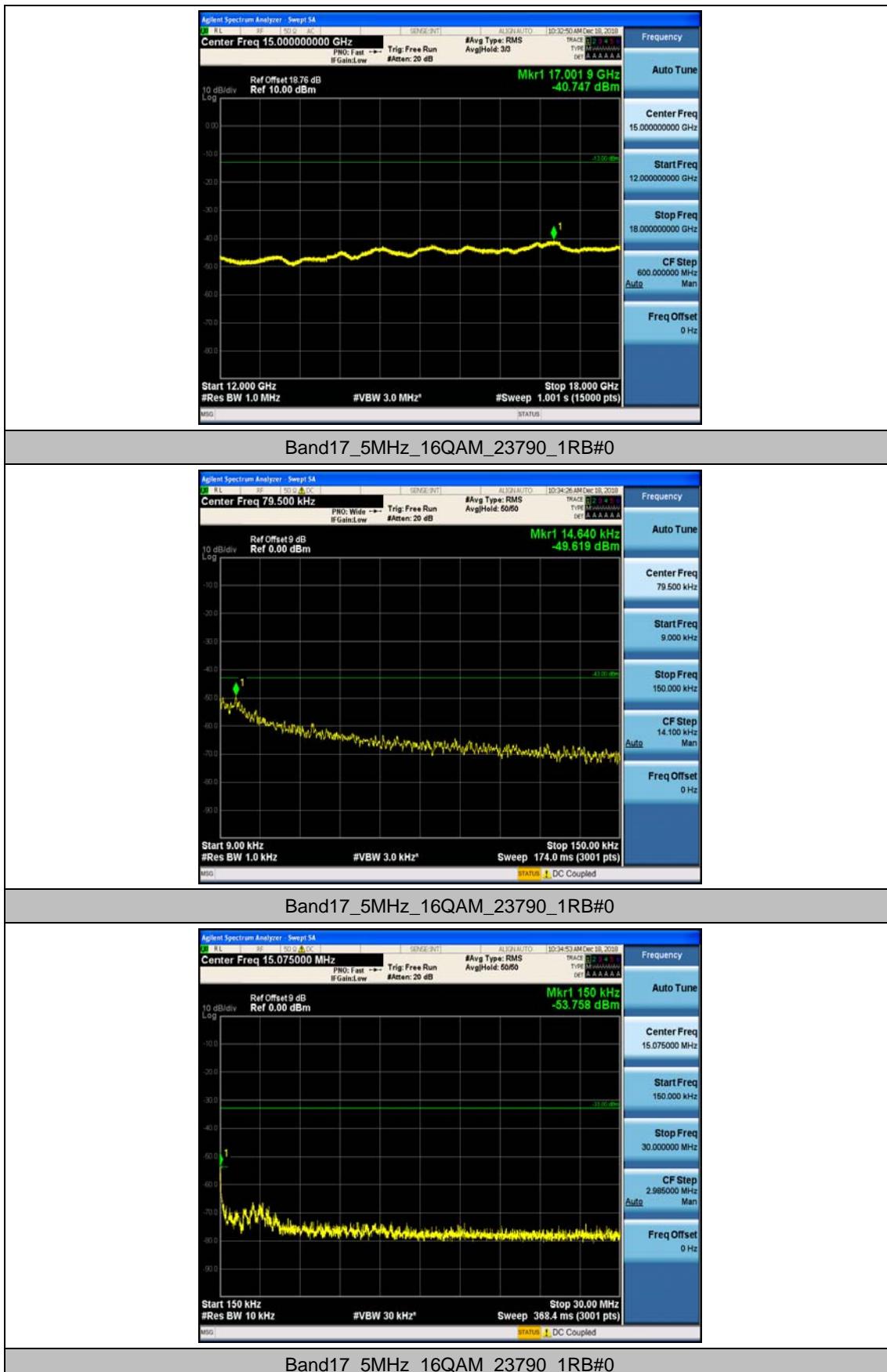


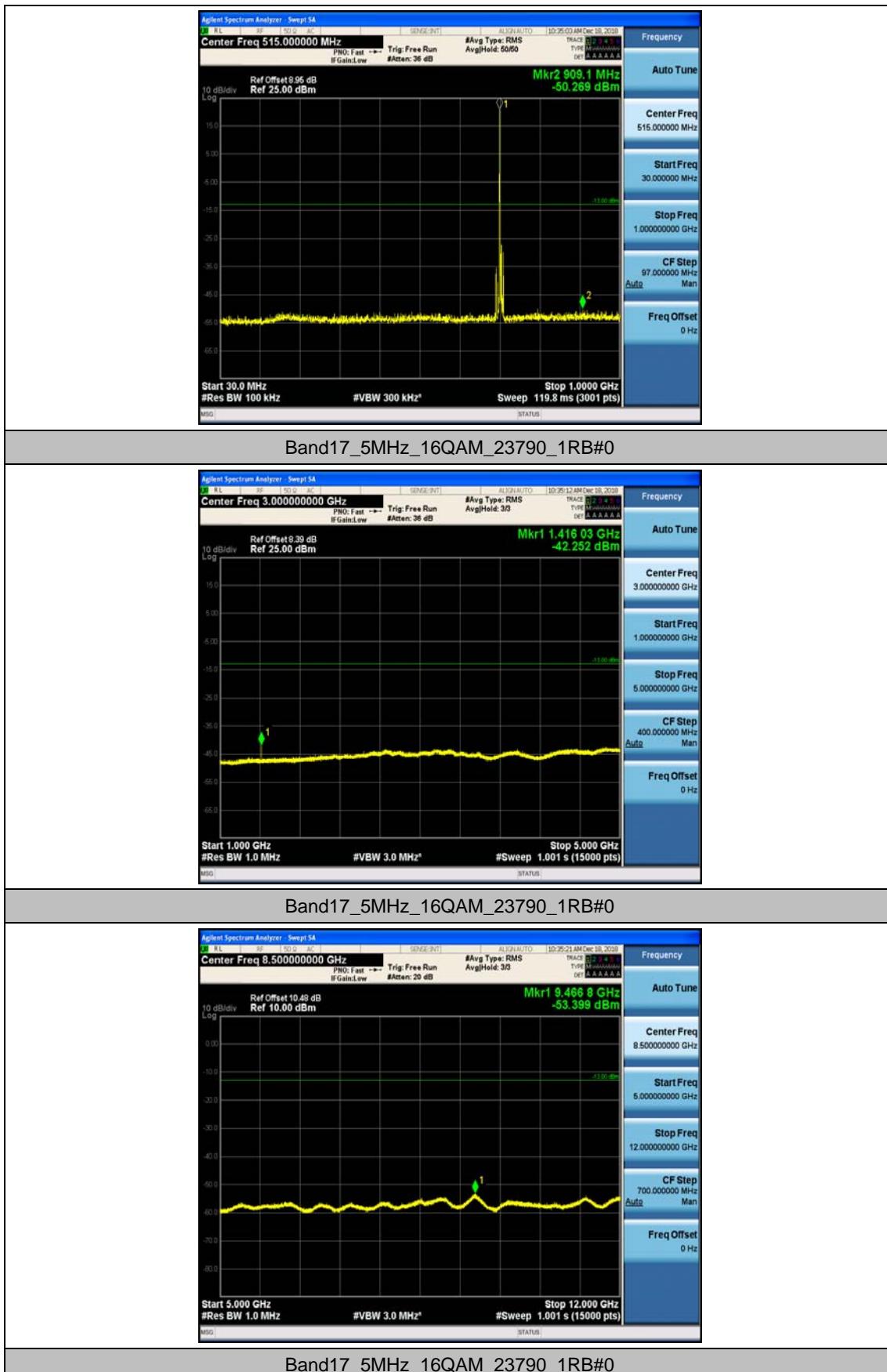


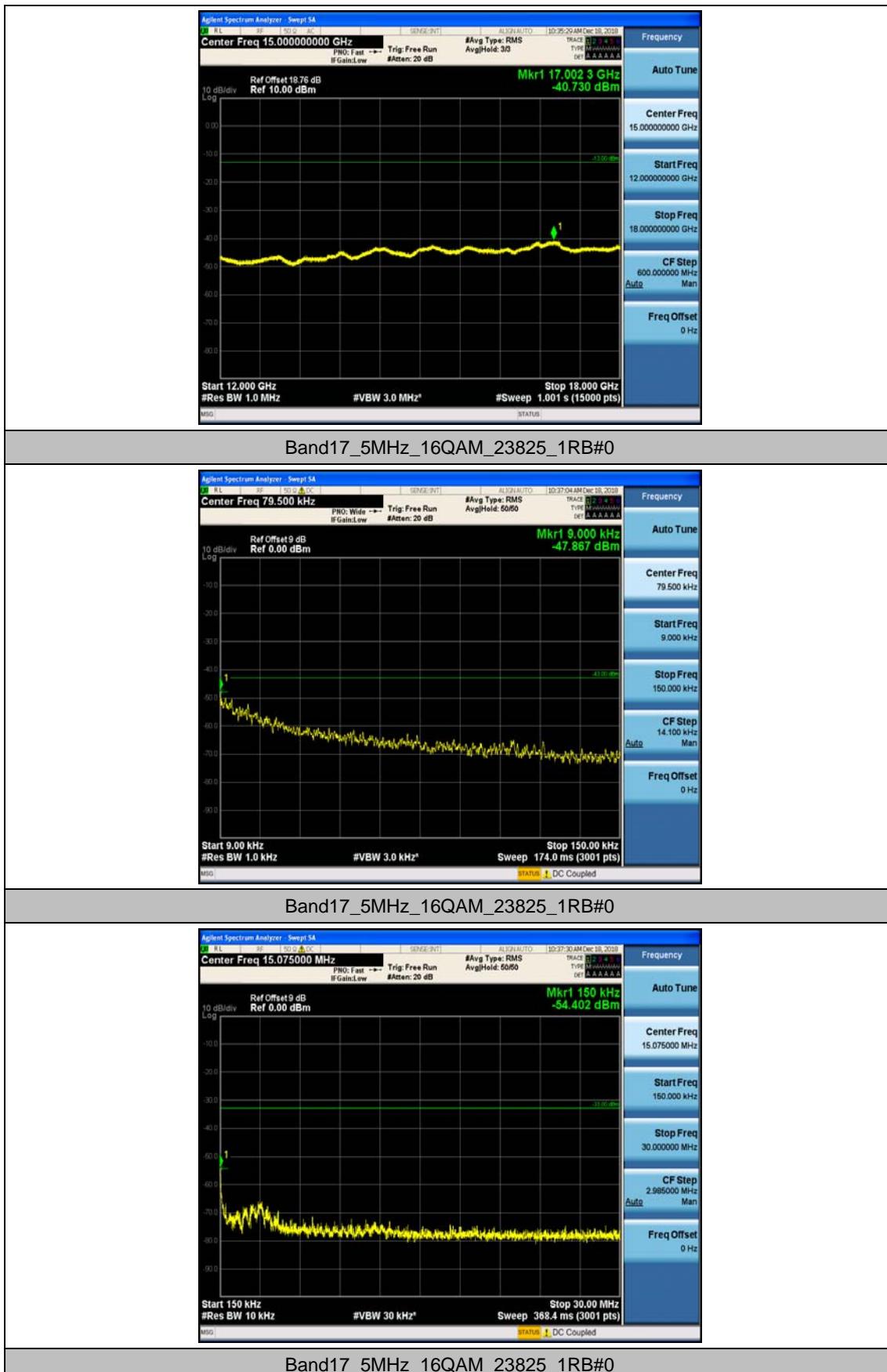


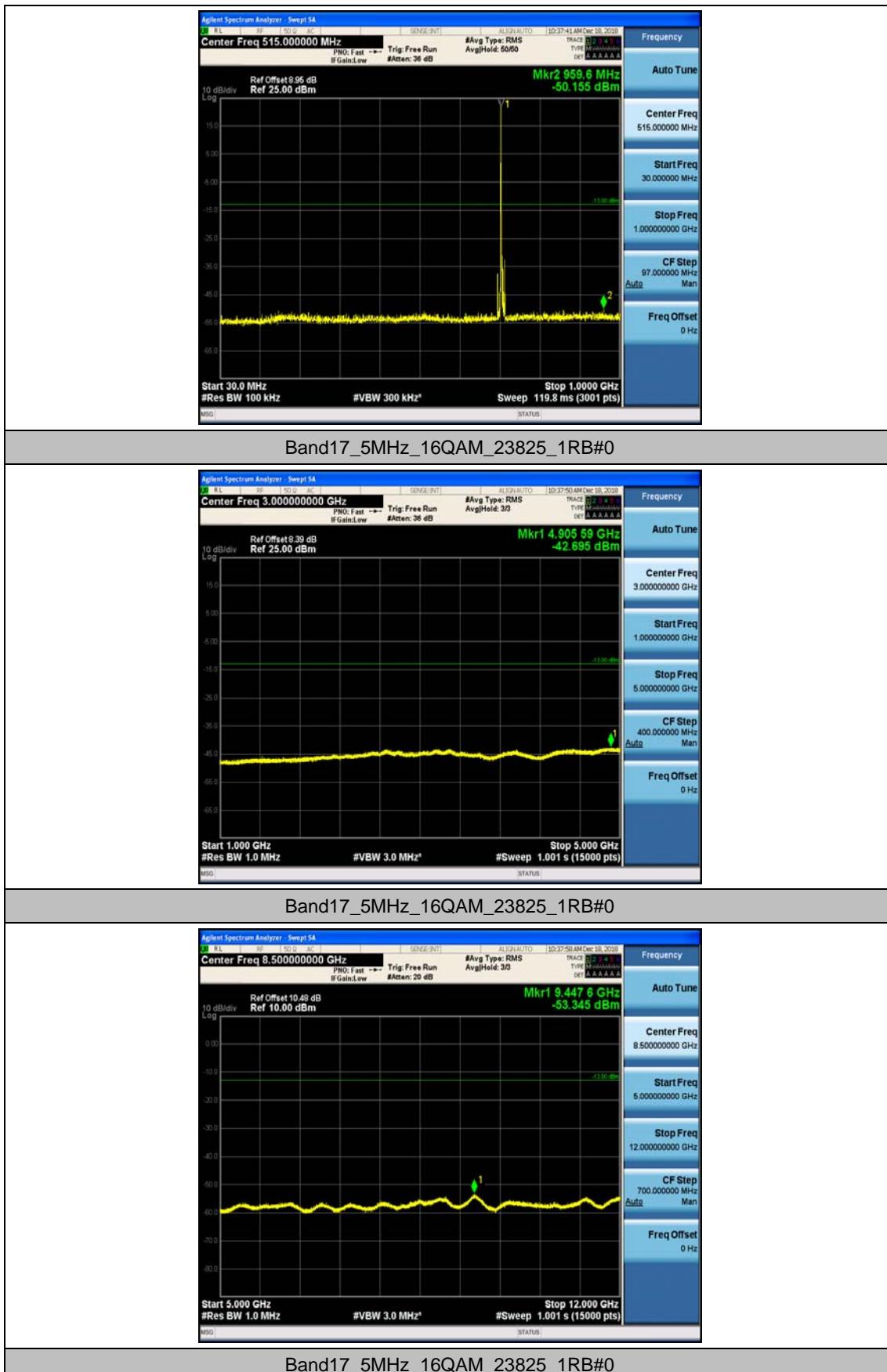


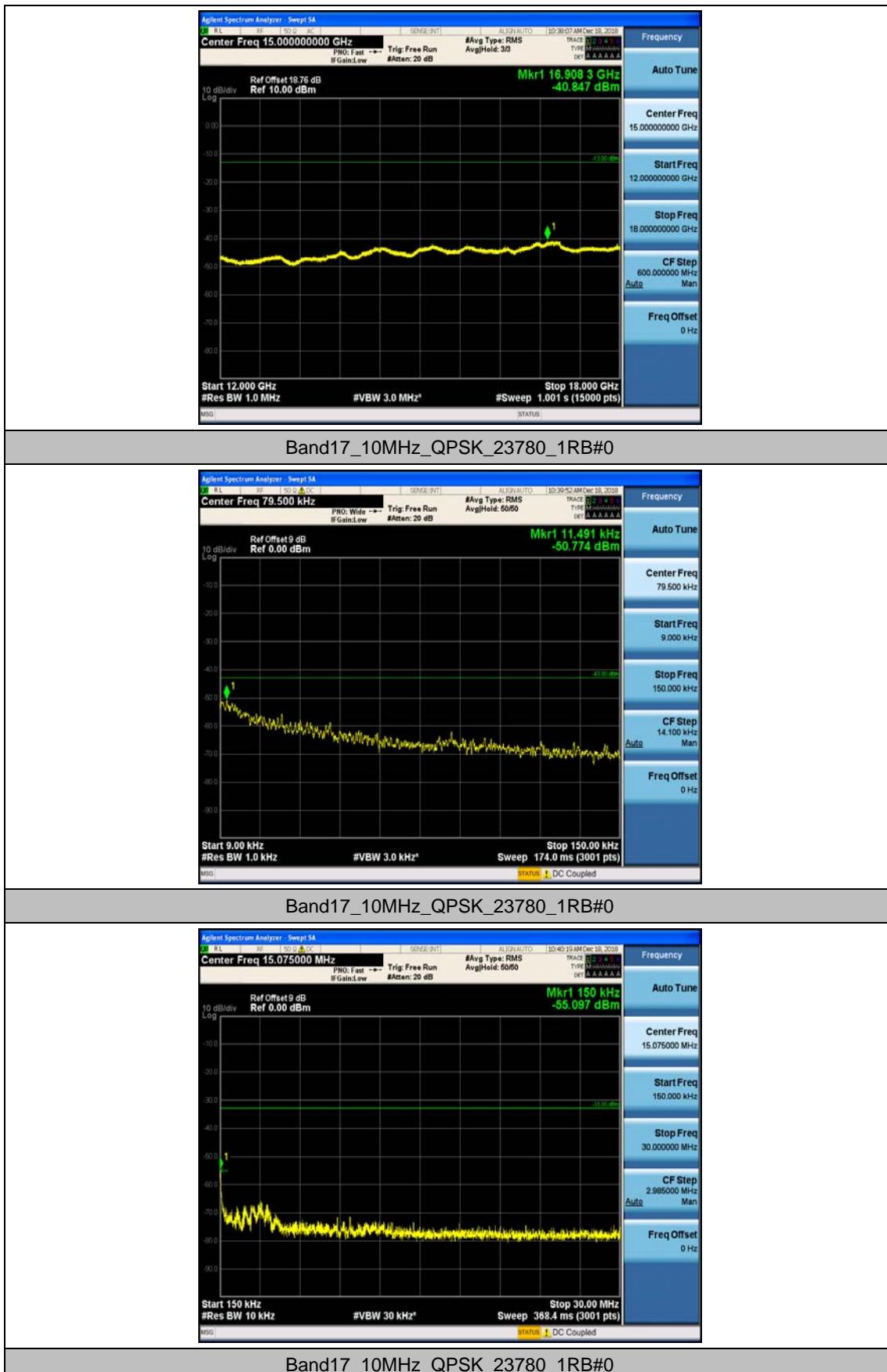


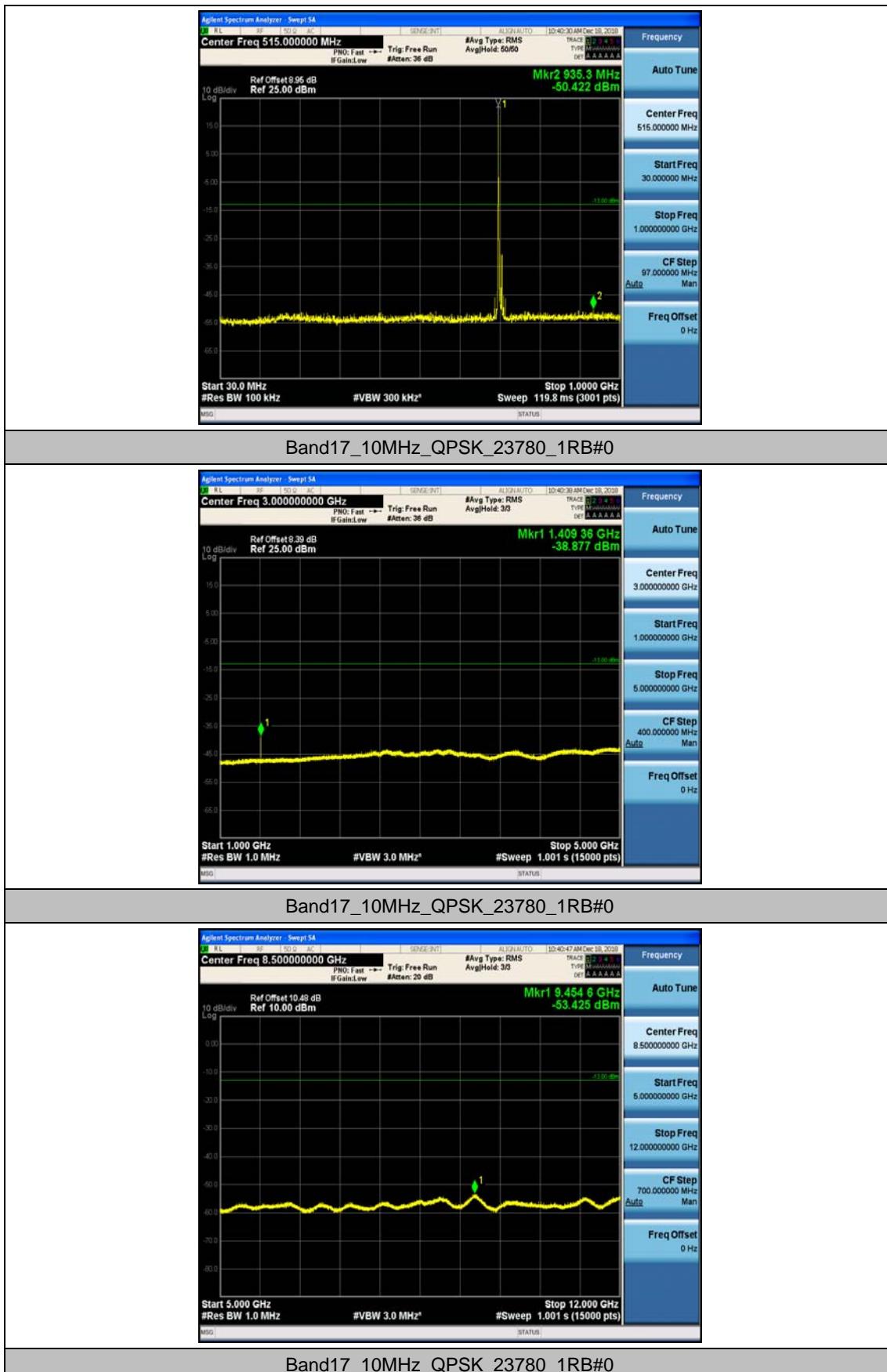


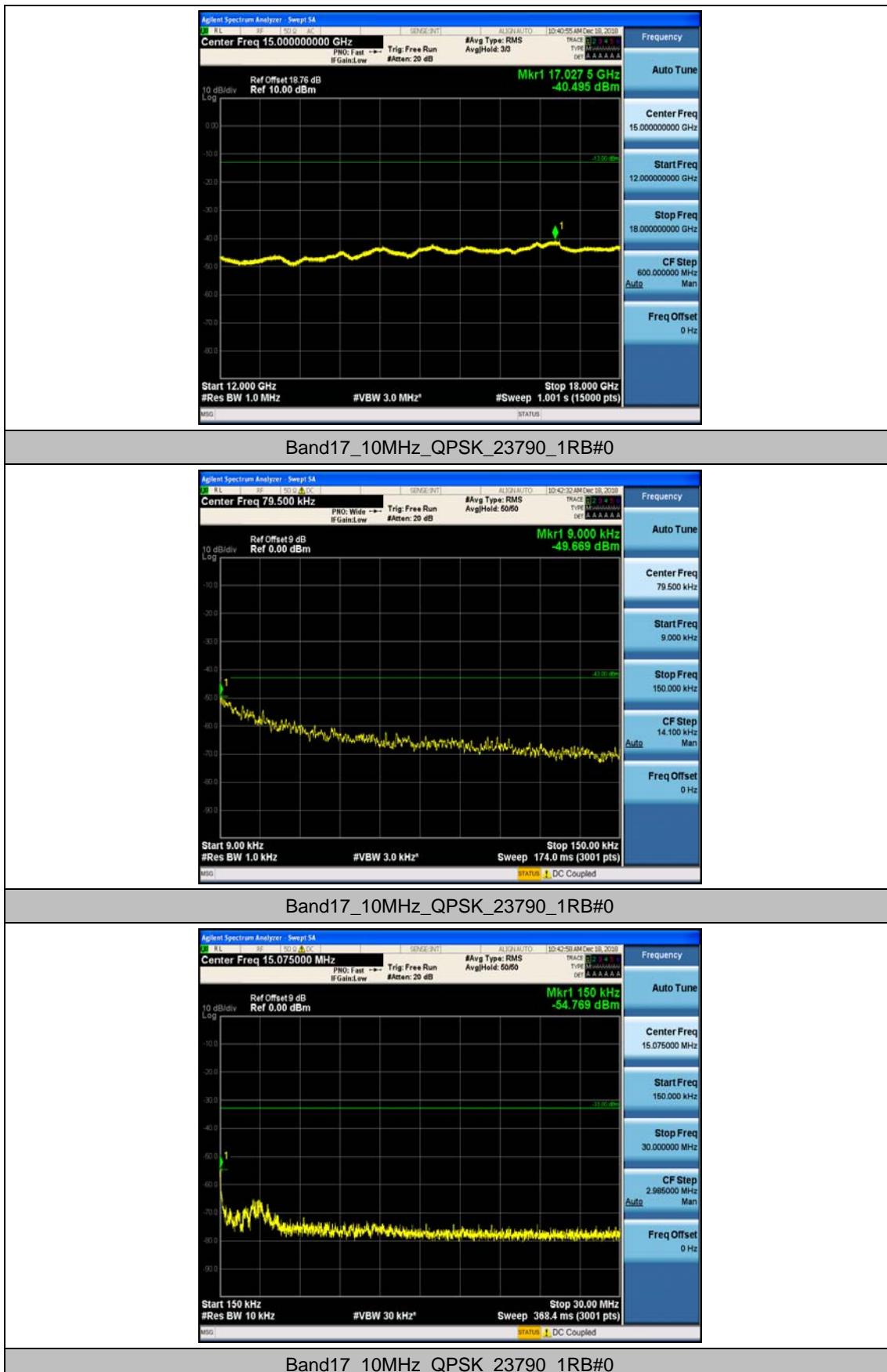


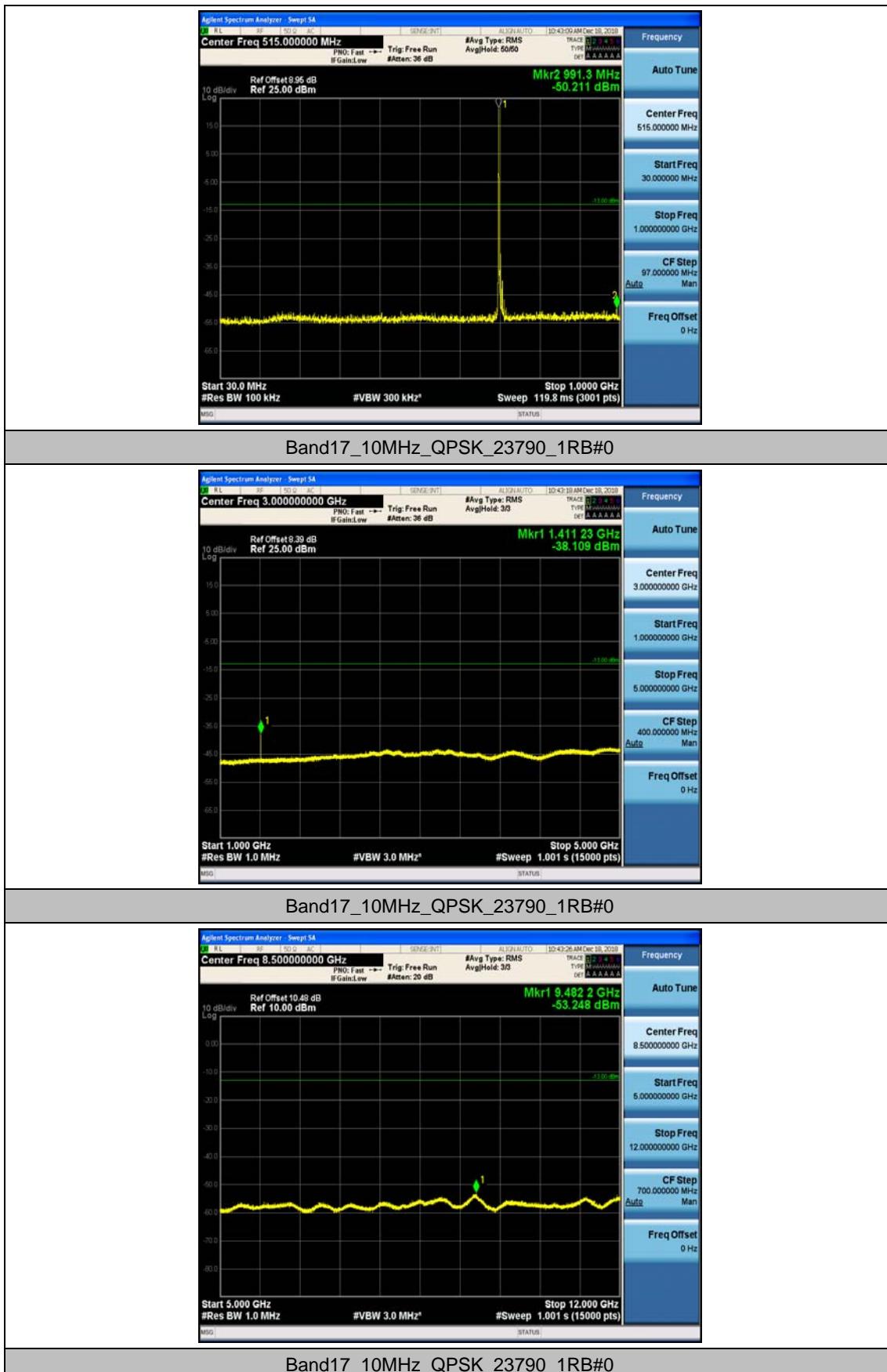


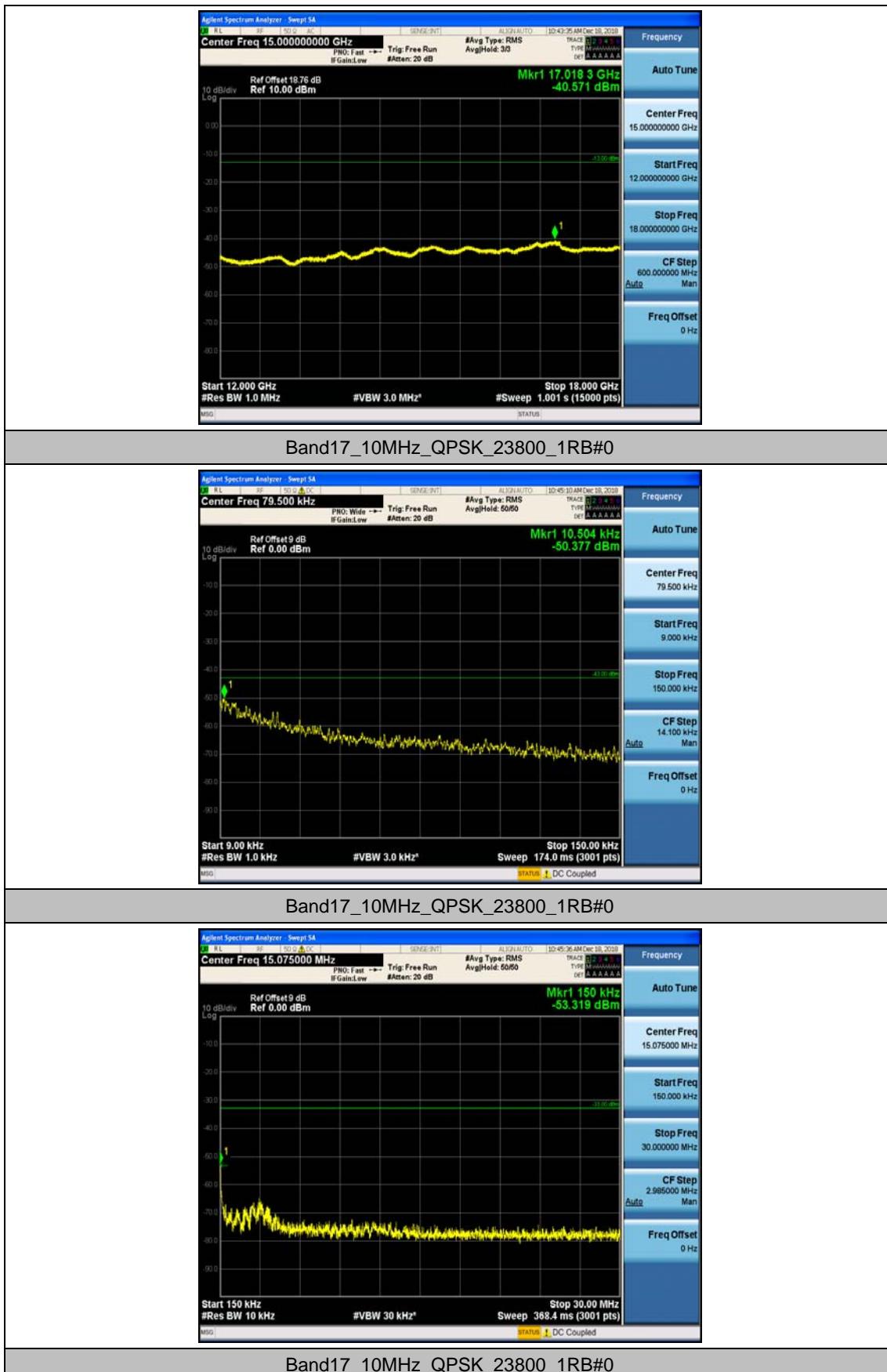


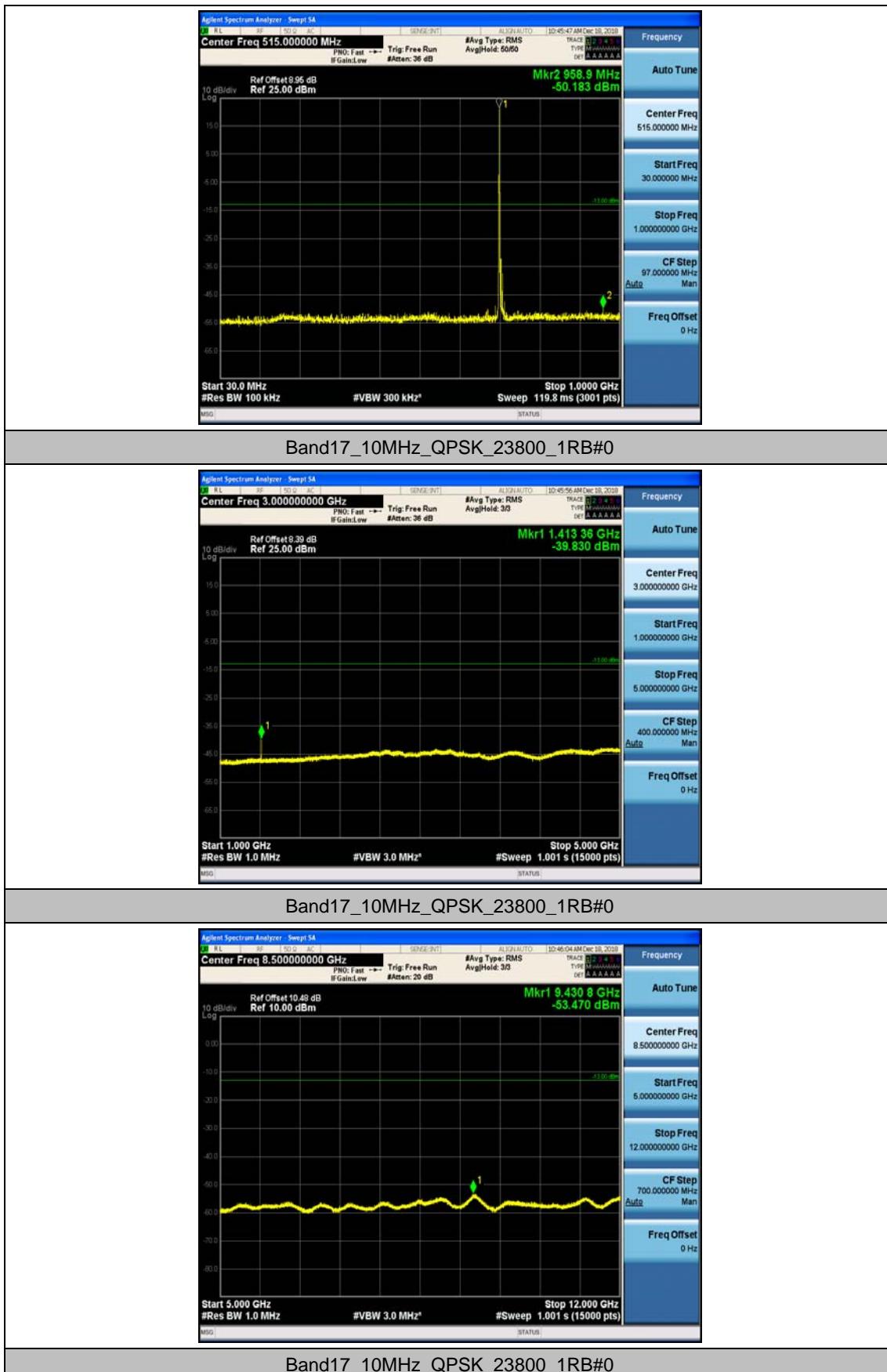


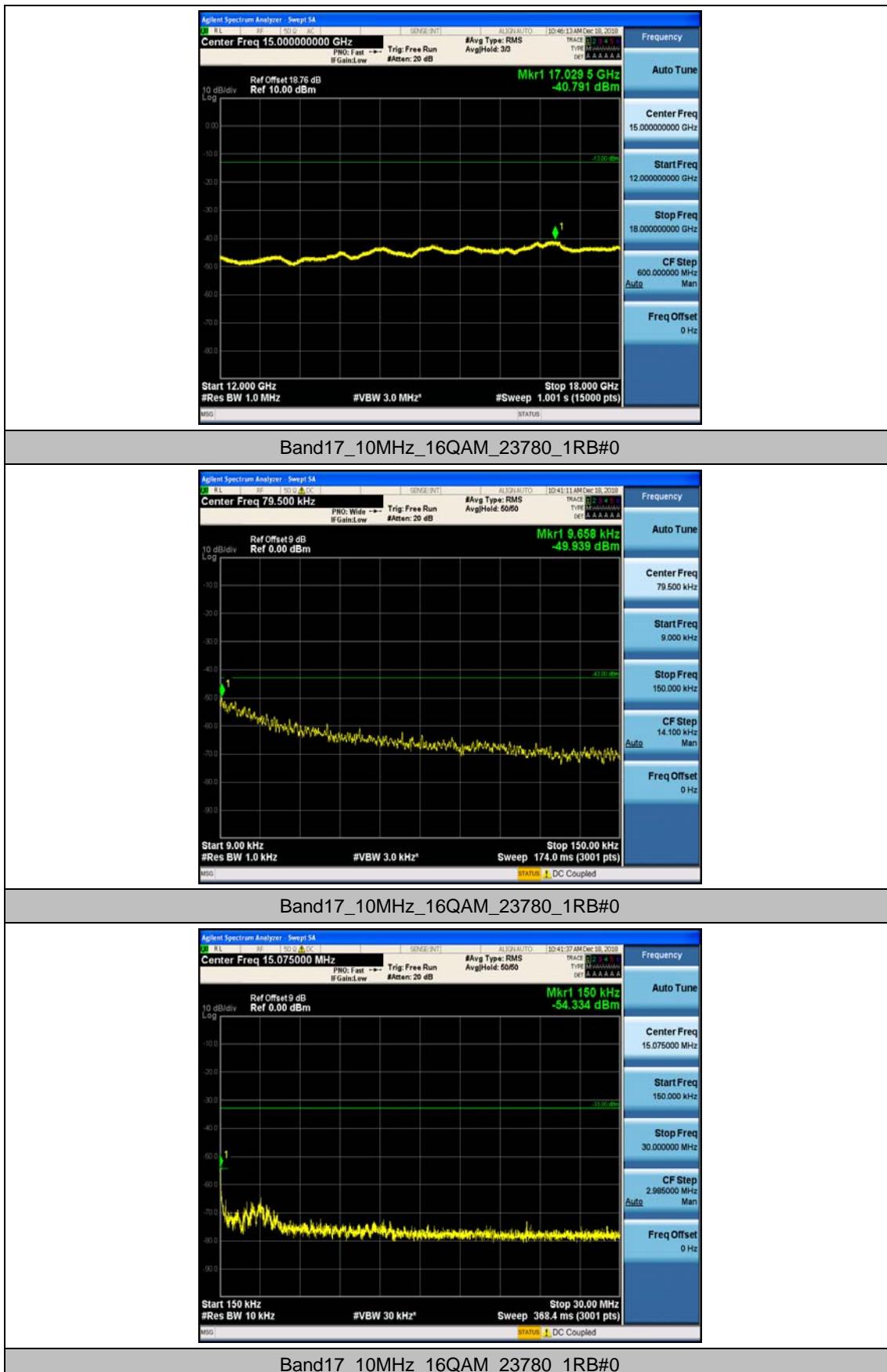


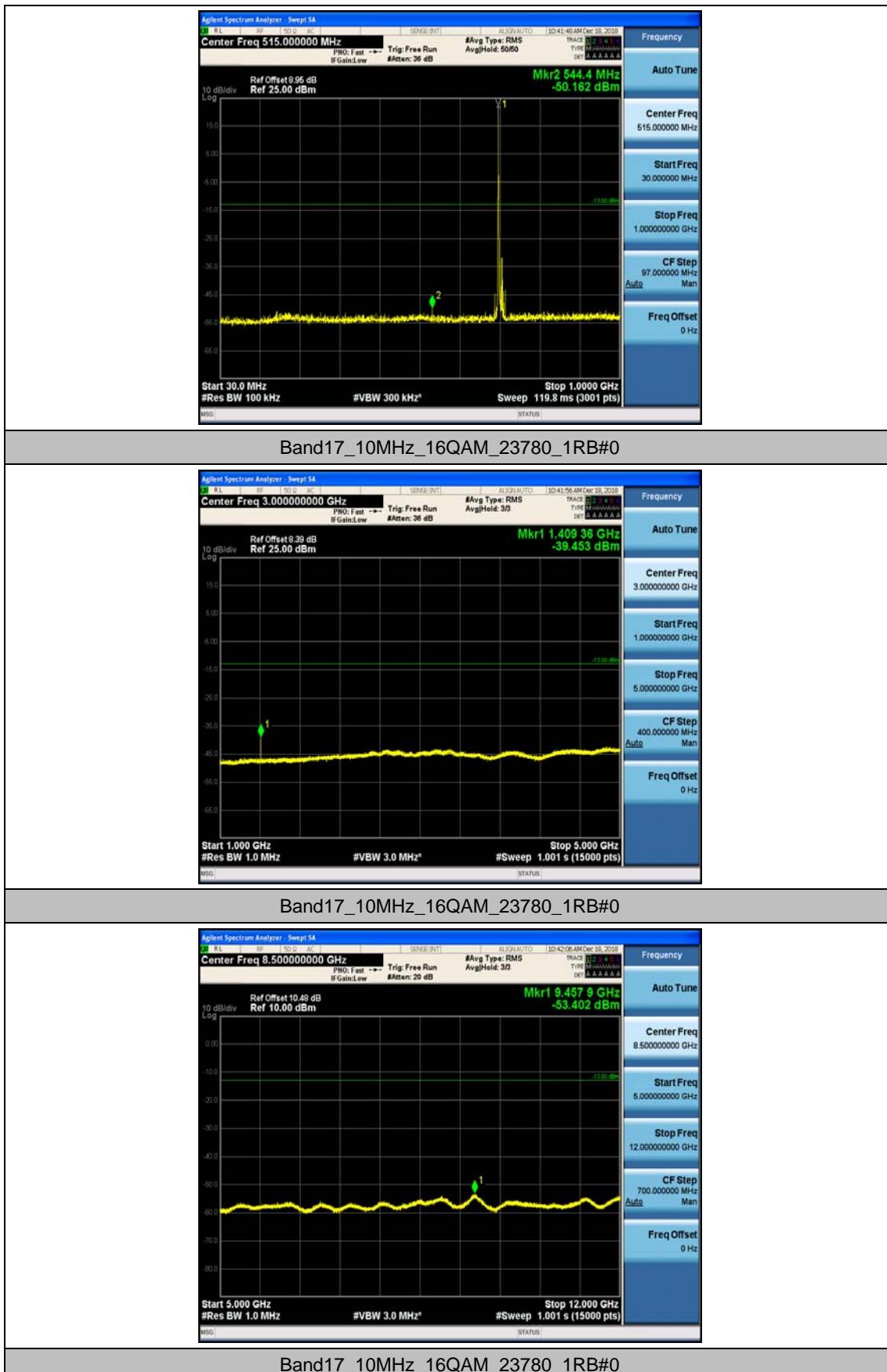


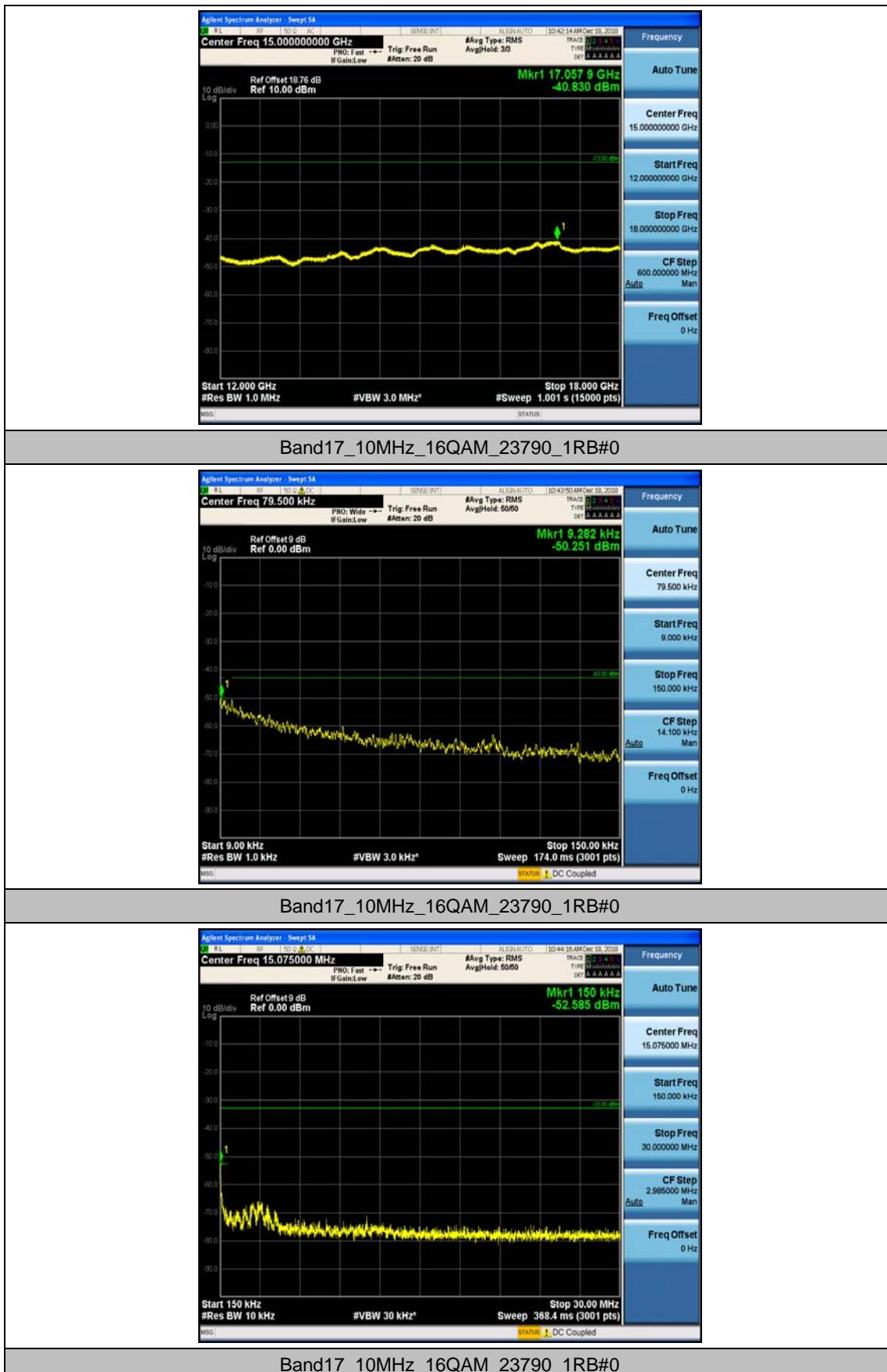


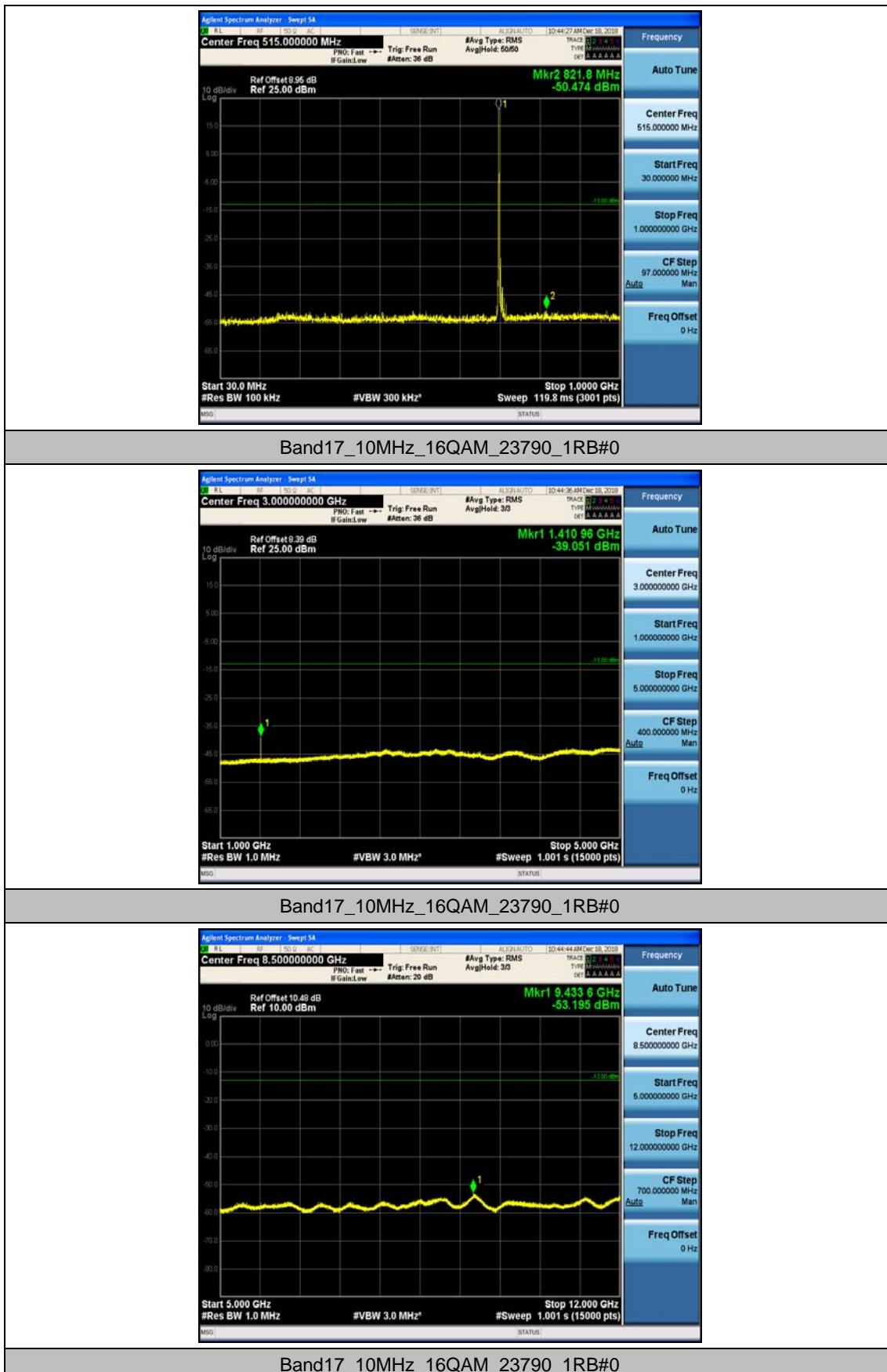


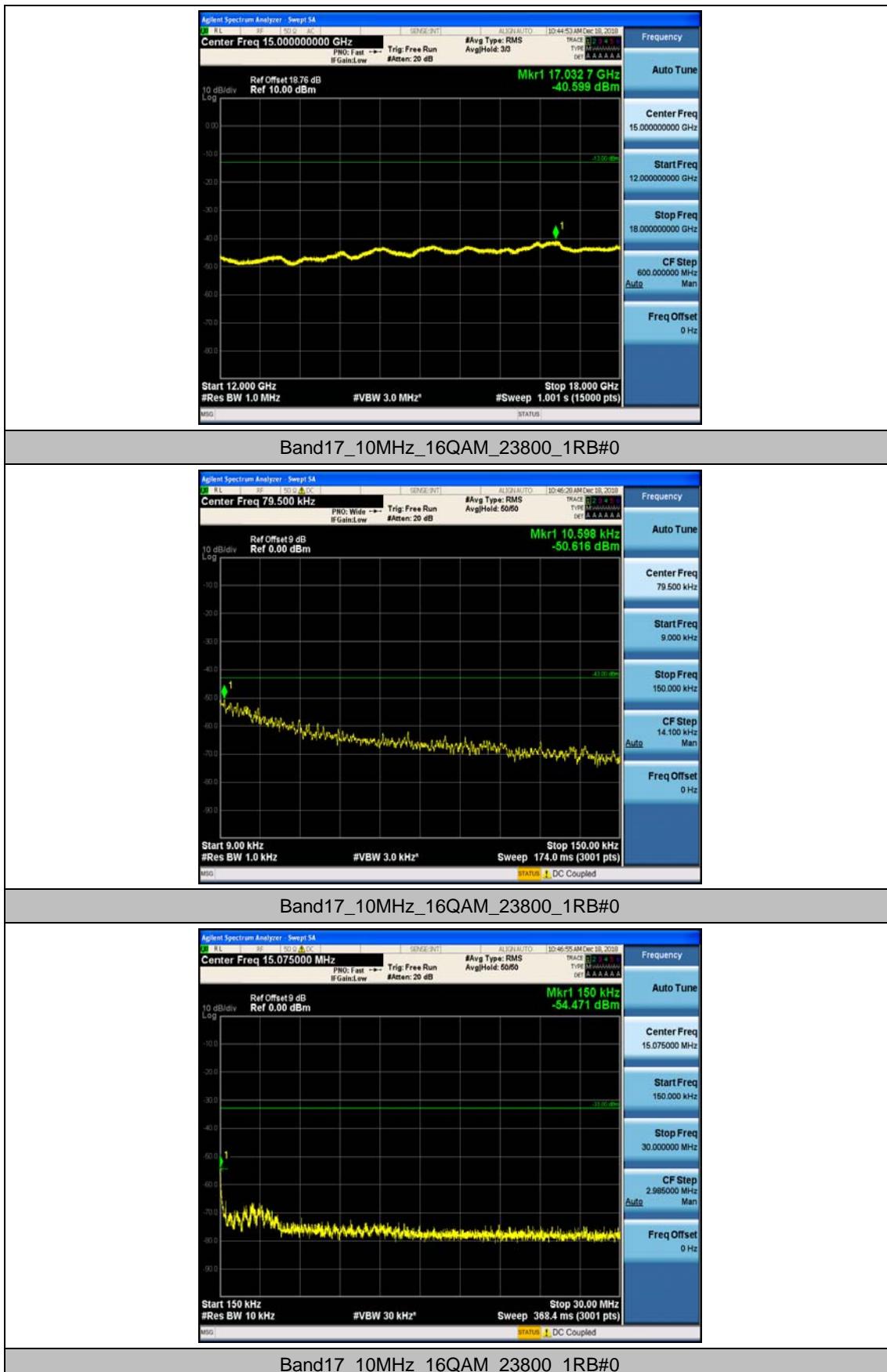


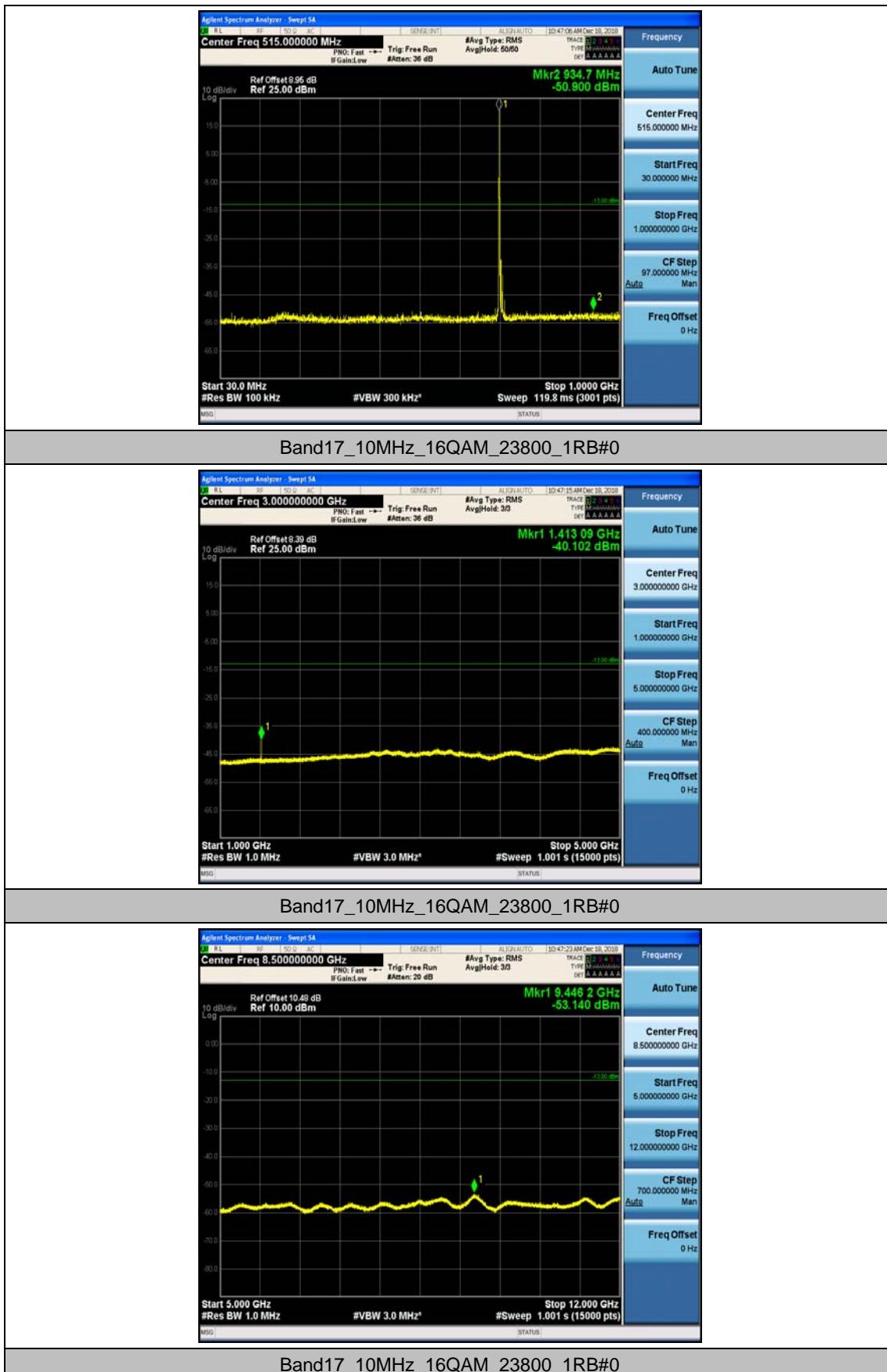














## Appendix F: Frequency Stability

### 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	0.33	0.000467	± 2.5	PASS
		VN	TN	1.47	0.002081	± 2.5	PASS
		VH	TN	4.15	0.005874	± 2.5	PASS
	MCH	VL	TN	-0.02	-0.000028	± 2.5	PASS
		VN	TN	0.07	0.000099	± 2.5	PASS
		VH	TN	4.68	0.006592	± 2.5	PASS
	HCH	VL	TN	4.37	0.006125	± 2.5	PASS
		VN	TN	3.2	0.004485	± 2.5	PASS
		VH	TN	2.89	0.004050	± 2.5	PASS
16QAM	LCH	VL	TN	0.78	0.001104	± 2.5	PASS
		VN	TN	2.27	0.003213	± 2.5	PASS
		VH	TN	2.74	0.003878	± 2.5	PASS
	MCH	VL	TN	1.98	0.002789	± 2.5	PASS
		VN	TN	0.17	0.000239	± 2.5	PASS
		VH	TN	-0.49	-0.000690	± 2.5	PASS
	HCH	VL	TN	4.14	0.005802	± 2.5	PASS
		VN	TN	3.73	0.005228	± 2.5	PASS
		VH	TN	-0.66	-0.000925	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.01	0.000014	± 2.5	PASS
		VN	-20	2.17	0.003071	± 2.5	PASS
		VN	-10	2.36	0.003340	± 2.5	PASS
		VN	0	-0.48	-0.000679	± 2.5	PASS
		VN	10	0.16	0.000226	± 2.5	PASS
		VN	20	2.59	0.003666	± 2.5	PASS
		VN	30	-1.01	-0.001430	± 2.5	PASS
		VN	40	1.87	0.002647	± 2.5	PASS
		VN	50	4.14	0.005860	± 2.5	PASS
	MCH	VN	-30	-1.79	-0.002521	± 2.5	PASS
		VN	-20	1.41	0.001986	± 2.5	PASS
		VN	-10	4.38	0.006169	± 2.5	PASS

		VN	0	1.26	0.001775	$\pm 2.5$	PASS
		VN	10	1.24	0.001746	$\pm 2.5$	PASS
		VN	20	2.63	0.003704	$\pm 2.5$	PASS
		VN	30	3.44	0.004845	$\pm 2.5$	PASS
		VN	40	-0.34	-0.000479	$\pm 2.5$	PASS
		VN	50	3.67	0.005169	$\pm 2.5$	PASS
		VN	-30	4.21	0.005900	$\pm 2.5$	PASS
		VN	-20	2.65	0.003714	$\pm 2.5$	PASS
		VN	-10	2.86	0.004008	$\pm 2.5$	PASS
		VN	0	1.97	0.002761	$\pm 2.5$	PASS
		VN	10	0.68	0.000953	$\pm 2.5$	PASS
		VN	20	-0.25	-0.000350	$\pm 2.5$	PASS
		VN	30	2.46	0.003448	$\pm 2.5$	PASS
		VN	40	4.78	0.006699	$\pm 2.5$	PASS
		VN	50	4.8	0.006727	$\pm 2.5$	PASS
	HCH	VN	-30	3.23	0.004572	$\pm 2.5$	PASS
		VN	-20	0.88	0.001246	$\pm 2.5$	PASS
		VN	-10	3.93	0.005563	$\pm 2.5$	PASS
		VN	0	3.75	0.005308	$\pm 2.5$	PASS
		VN	10	-1.74	-0.002463	$\pm 2.5$	PASS
		VN	20	3.37	0.004770	$\pm 2.5$	PASS
		VN	30	4.47	0.006327	$\pm 2.5$	PASS
		VN	40	4.82	0.006822	$\pm 2.5$	PASS
		VN	50	0.25	0.000354	$\pm 2.5$	PASS
	LCH	VN	-30	3.95	0.005536	$\pm 2.5$	PASS
		VN	-20	-0.36	-0.000505	$\pm 2.5$	PASS
		VN	-10	1.8	0.002523	$\pm 2.5$	PASS
		VN	0	0.38	0.000533	$\pm 2.5$	PASS
		VN	10	4.14	0.005802	$\pm 2.5$	PASS
		VN	20	1.8	0.002523	$\pm 2.5$	PASS
		VN	30	0.68	0.000953	$\pm 2.5$	PASS
		VN	40	-1.48	-0.002074	$\pm 2.5$	PASS
		VN	50	-0.65	-0.000911	$\pm 2.5$	PASS
	MCH	VN	-30	4.75	0.006657	$\pm 2.5$	PASS
		VN	-20	0.13	0.000182	$\pm 2.5$	PASS
		VN	-10	1.82	0.002551	$\pm 2.5$	PASS
		VN	0	-0.58	-0.000813	$\pm 2.5$	PASS
		VN	10	1.28	0.001794	$\pm 2.5$	PASS
		VN	20	-1.36	-0.001906	$\pm 2.5$	PASS
		VN	30	3.5	0.004905	$\pm 2.5$	PASS
		VN	40	4.53	0.006349	$\pm 2.5$	PASS

		VN	50	2.82	0.003952	$\pm 2.5$	PASS
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## Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.43	0.006248	$\pm 2.5$	PASS
		VN	TN	-0.55	-0.000776	$\pm 2.5$	PASS
		VH	TN	3.71	0.005233	$\pm 2.5$	PASS
	MCH	VL	TN	3.57	0.005028	$\pm 2.5$	PASS
		VN	TN	-0.77	-0.001085	$\pm 2.5$	PASS
		VH	TN	-0.06	-0.000085	$\pm 2.5$	PASS
	HCH	VL	TN	2.62	0.003685	$\pm 2.5$	PASS
		VN	TN	3.6	0.005063	$\pm 2.5$	PASS
		VH	TN	4.65	0.006540	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	2.07	0.002920	$\pm 2.5$	PASS
		VN	TN	0.97	0.001368	$\pm 2.5$	PASS
		VH	TN	4.08	0.005755	$\pm 2.5$	PASS
	MCH	VL	TN	0.5	0.000704	$\pm 2.5$	PASS
		VN	TN	0.65	0.000915	$\pm 2.5$	PASS
		VH	TN	1.65	0.002324	$\pm 2.5$	PASS
	HCH	VL	TN	-0.21	-0.000295	$\pm 2.5$	PASS
		VN	TN	-0.59	-0.000830	$\pm 2.5$	PASS
		VH	TN	-0.34	-0.000478	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	3.57	0.005035	$\pm 2.5$	PASS
		VN	-20	-0.29	-0.000409	$\pm 2.5$	PASS
		VN	-10	-1.55	-0.002186	$\pm 2.5$	PASS
		VN	0	-1.24	-0.001749	$\pm 2.5$	PASS
		VN	10	1.04	0.001467	$\pm 2.5$	PASS
		VN	20	1.5	0.002116	$\pm 2.5$	PASS
		VN	30	-1.45	-0.002045	$\pm 2.5$	PASS
		VN	40	3.17	0.004471	$\pm 2.5$	PASS
		VN	50	-0.73	-0.001030	$\pm 2.5$	PASS
	MCH	VN	-30	1.73	0.002437	$\pm 2.5$	PASS
		VN	-20	-0.12	-0.000169	$\pm 2.5$	PASS
		VN	-10	1.49	0.002099	$\pm 2.5$	PASS
		VN	0	4.47	0.006296	$\pm 2.5$	PASS

		VN	10	-0.33	-0.000465	$\pm 2.5$	PASS
		VN	20	-1.55	-0.002183	$\pm 2.5$	PASS
		VN	30	4.65	0.006549	$\pm 2.5$	PASS
		VN	40	3.78	0.005324	$\pm 2.5$	PASS
		VN	50	0.25	0.000352	$\pm 2.5$	PASS
		VN	-30	0.37	0.000520	$\pm 2.5$	PASS
		VN	-20	0.66	0.000928	$\pm 2.5$	PASS
		VN	-10	4.78	0.006723	$\pm 2.5$	PASS
		VN	0	0.69	0.000970	$\pm 2.5$	PASS
		VN	10	4.03	0.005668	$\pm 2.5$	PASS
		VN	20	1.45	0.002039	$\pm 2.5$	PASS
		VN	30	0.79	0.001111	$\pm 2.5$	PASS
		VN	40	-1.02	-0.001435	$\pm 2.5$	PASS
		VN	50	4.56	0.006414	$\pm 2.5$	PASS
		VN	-30	-0.18	-0.000254	$\pm 2.5$	PASS
		VN	-20	2.71	0.003817	$\pm 2.5$	PASS
		VN	-10	0.81	0.001141	$\pm 2.5$	PASS
		VN	0	4.51	0.006352	$\pm 2.5$	PASS
		VN	10	4.02	0.005662	$\pm 2.5$	PASS
		VN	20	-0.63	-0.000887	$\pm 2.5$	PASS
		VN	30	0.57	0.000803	$\pm 2.5$	PASS
		VN	40	1.33	0.001873	$\pm 2.5$	PASS
		VN	50	-0.41	-0.000577	$\pm 2.5$	PASS
		VN	-30	0.06	0.000084	$\pm 2.5$	PASS
		VN	-20	2.72	0.003826	$\pm 2.5$	PASS
		VN	-10	4.55	0.006399	$\pm 2.5$	PASS
		VN	0	-0.56	-0.000788	$\pm 2.5$	PASS
		VN	10	-0.78	-0.001097	$\pm 2.5$	PASS
		VN	20	-0.83	-0.001167	$\pm 2.5$	PASS
		VN	30	-0.18	-0.000253	$\pm 2.5$	PASS
		VN	40	3.68	0.005176	$\pm 2.5$	PASS
		VN	50	1.01	0.001421	$\pm 2.5$	PASS
		VN	-30	4.25	0.005977	$\pm 2.5$	PASS
		VN	-20	4.82	0.006779	$\pm 2.5$	PASS
		VN	-10	-1.2	-0.001688	$\pm 2.5$	PASS
		VN	0	4.8	0.006751	$\pm 2.5$	PASS
		VN	10	-1.25	-0.001758	$\pm 2.5$	PASS
		VN	20	2.48	0.003488	$\pm 2.5$	PASS
		VN	30	1.77	0.002489	$\pm 2.5$	PASS
		VN	40	1.95	0.002743	$\pm 2.5$	PASS
		VN	50	-0.7	-0.000985	$\pm 2.5$	PASS