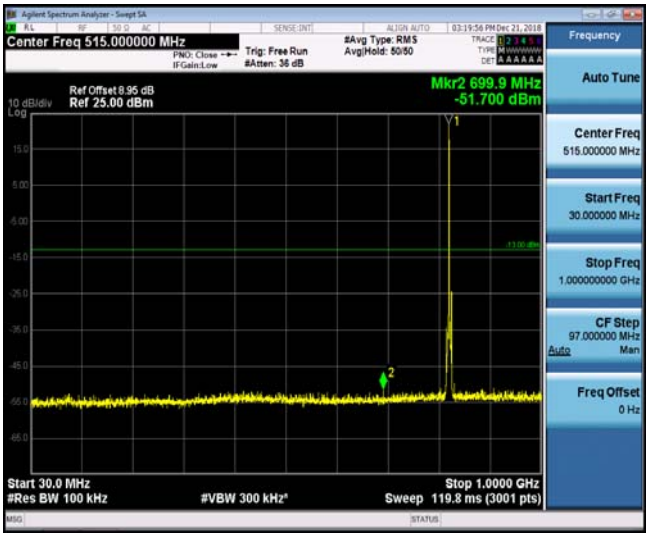
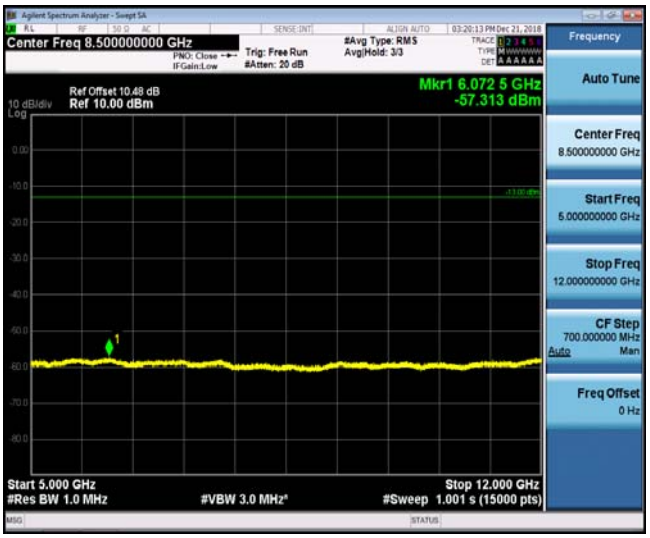


Band5_3MHz_16QAM_20415_1RB#0

Band5_3MHz_16QAM_20415_1RB#0



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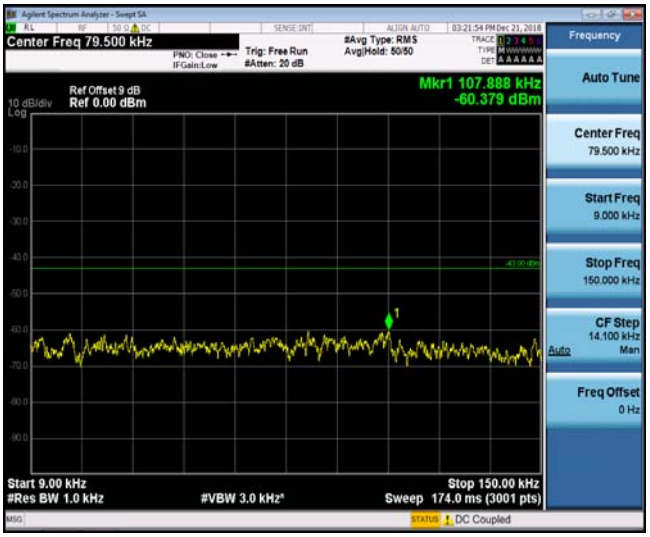
Band5_3MHz_16QAM_20525_1RB#0



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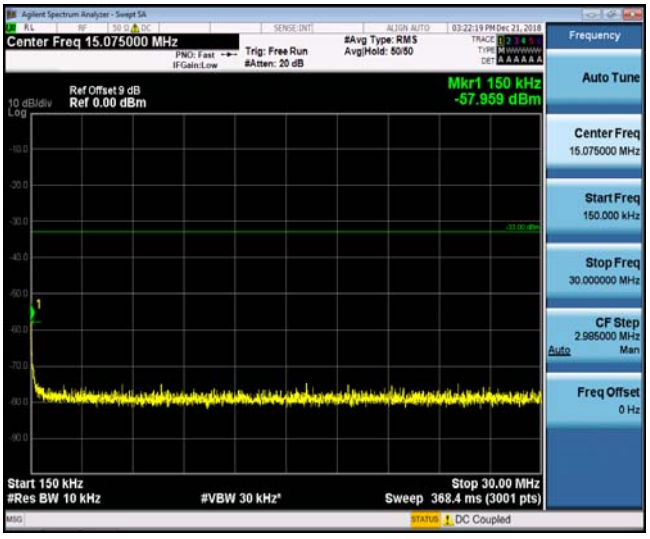

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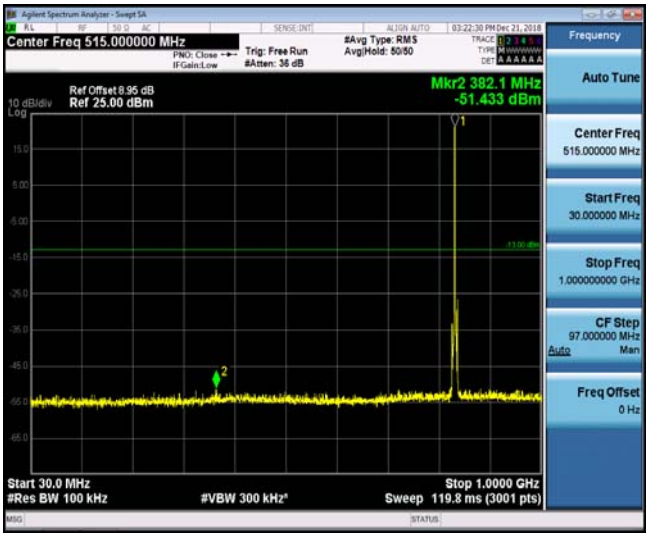

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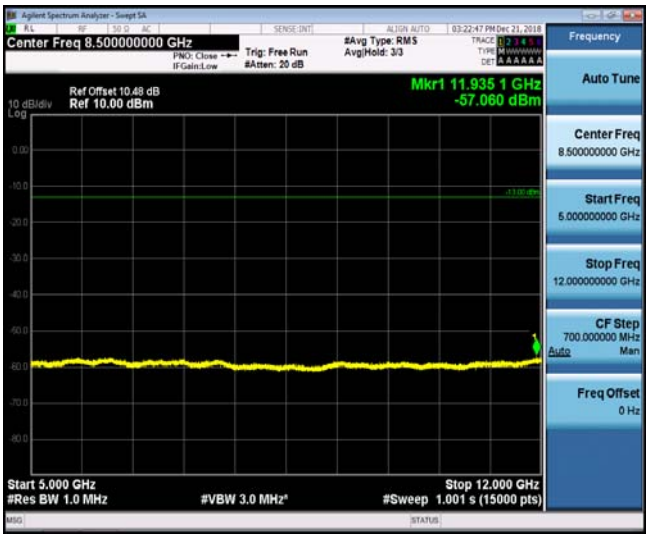

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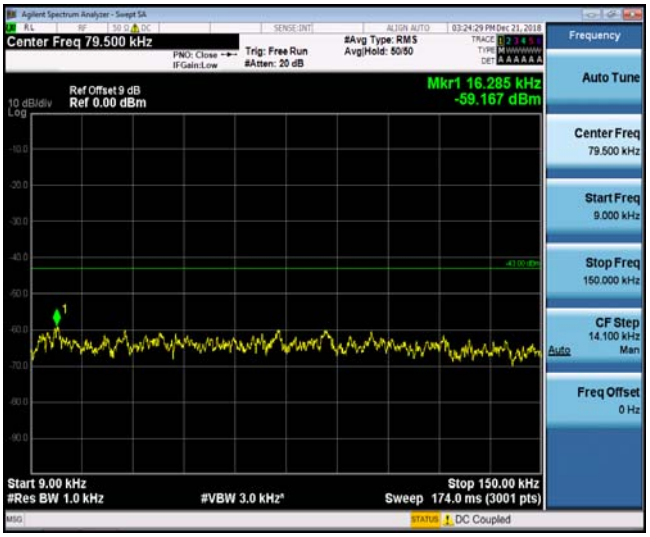

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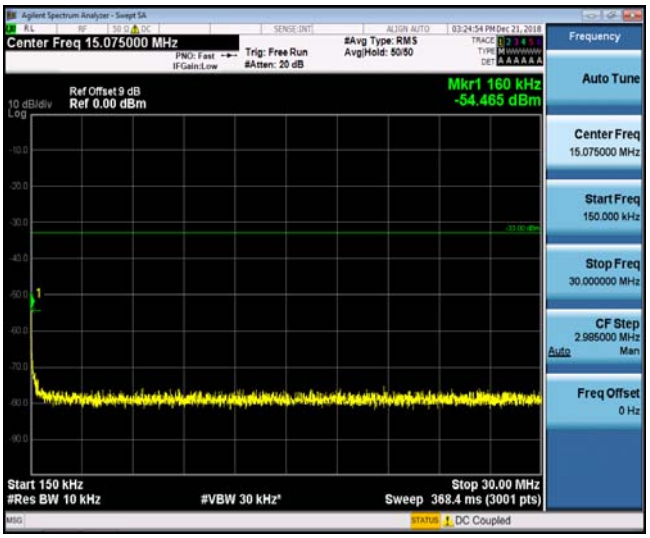

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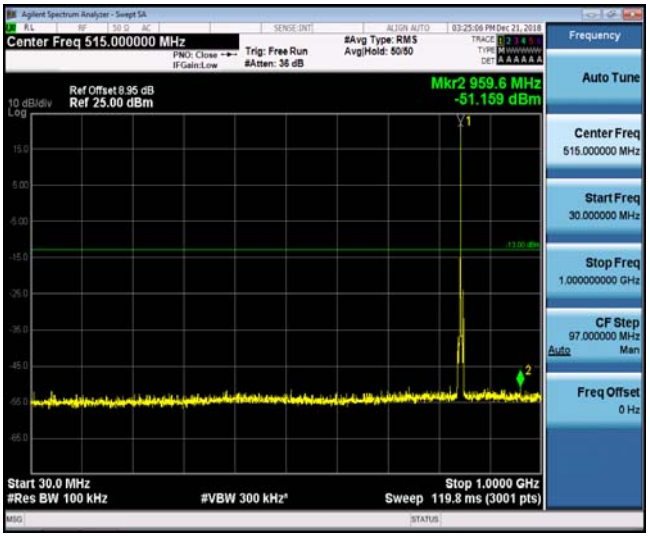

Band5_3MHz_16QAM_20635_1RB#0

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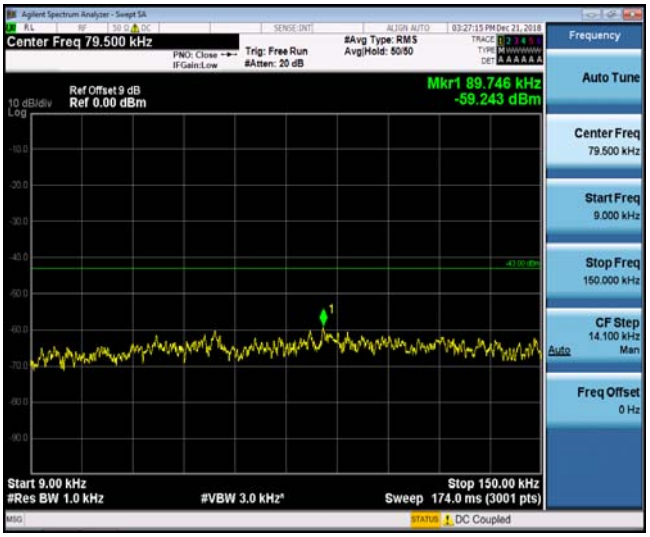
Band5_3MHz_16QAM_20635_1RB#0

Band5_5MHz_QPSK_20425_1RB#0



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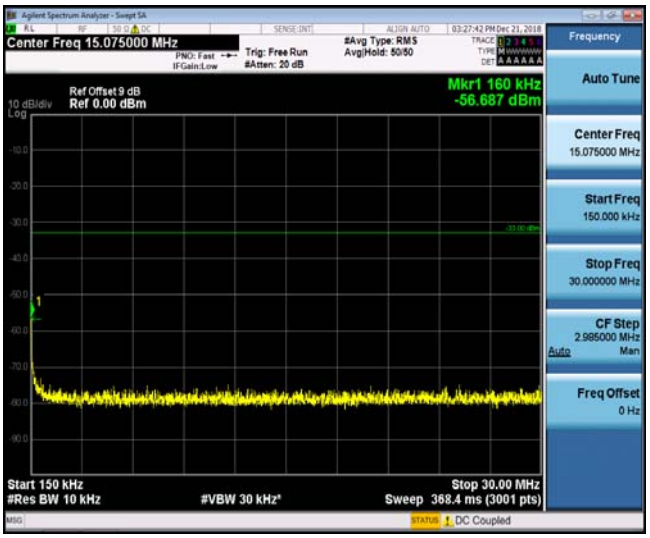

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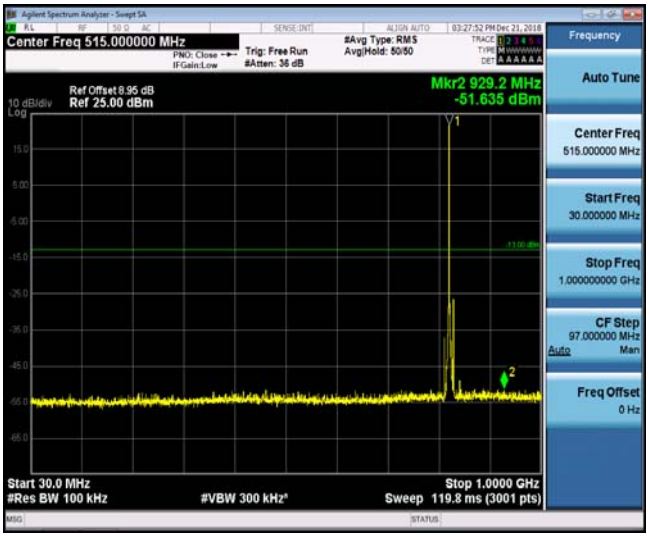

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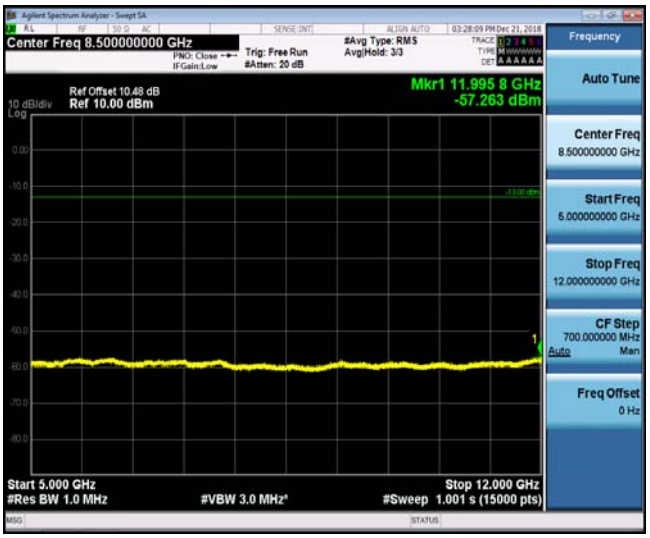

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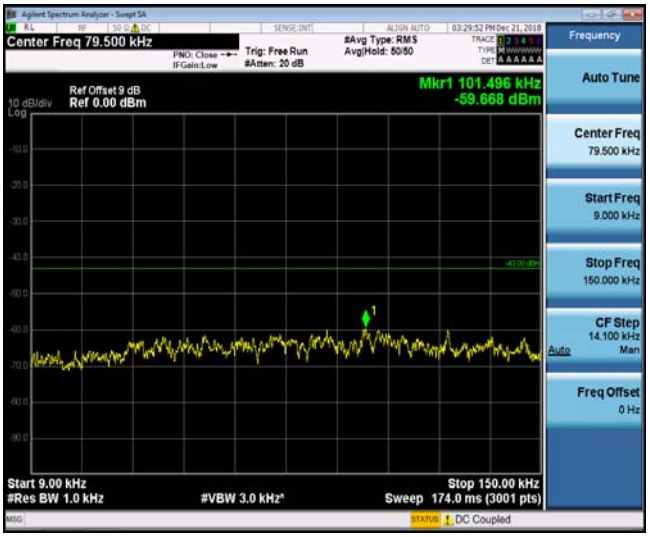

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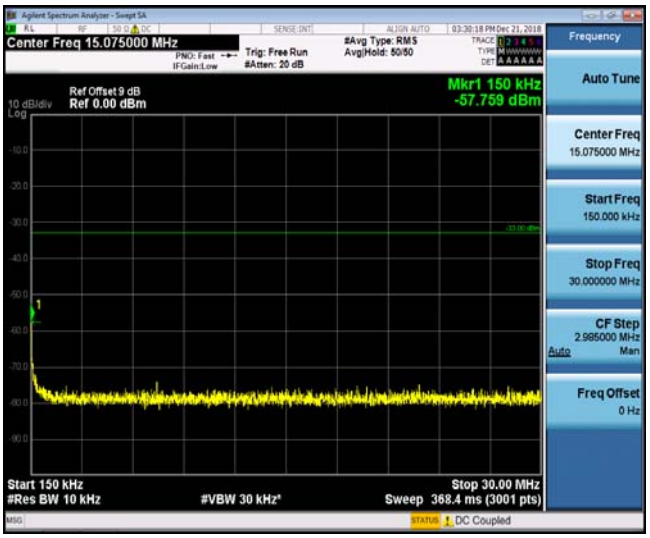

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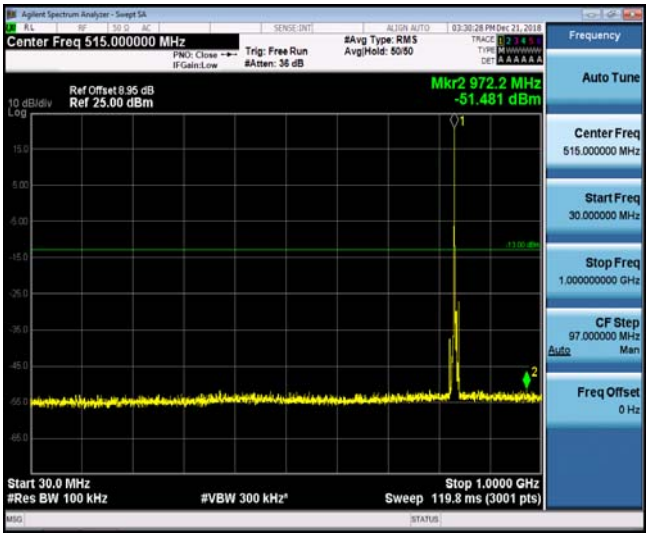

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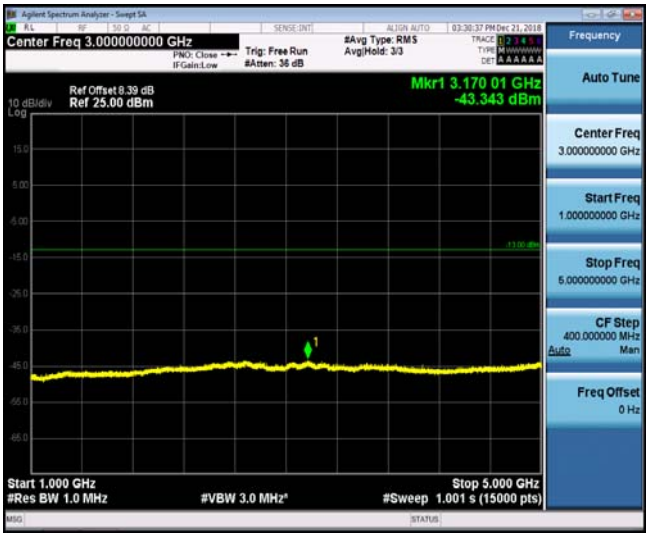

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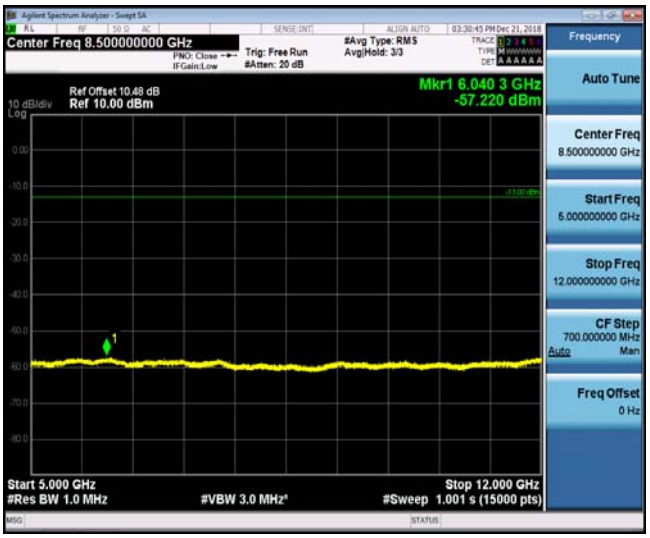

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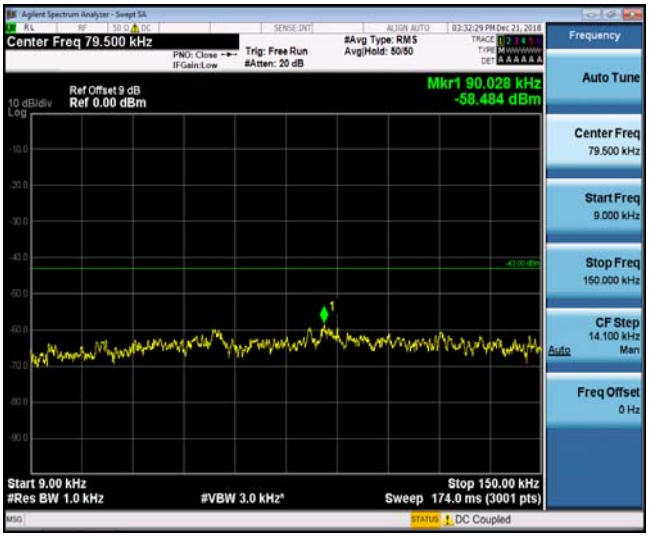

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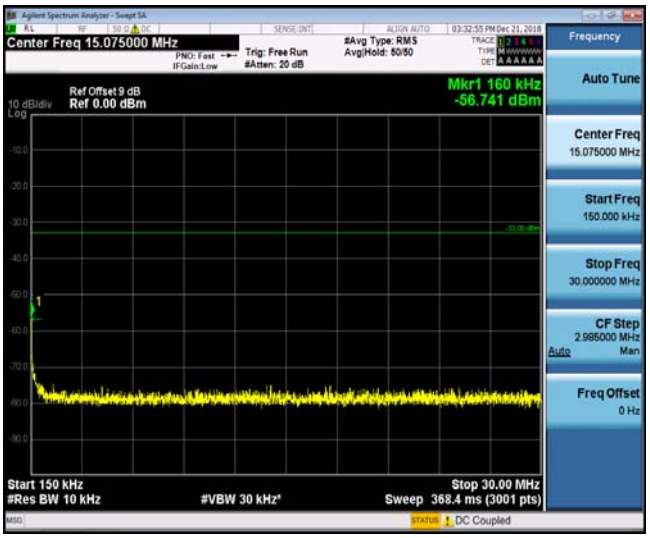

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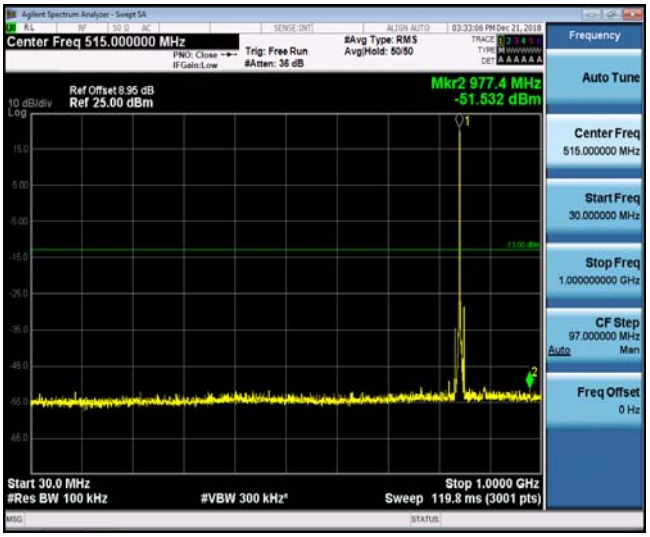
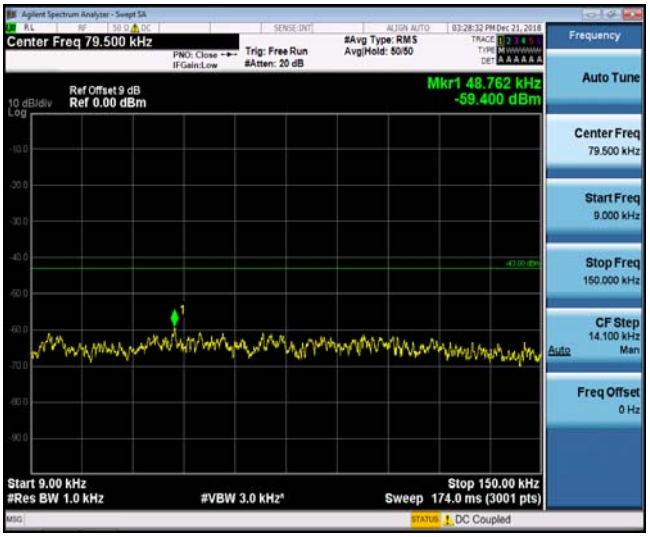


Band5_5MHz_QPSK_20625_1RB#0

Band5_5MHz_QPSK_20625_1RB#0

Band5_5MHz_QPSK_20625_1RB#0

Band5_5MHz_16QAM_20425_1RB#0



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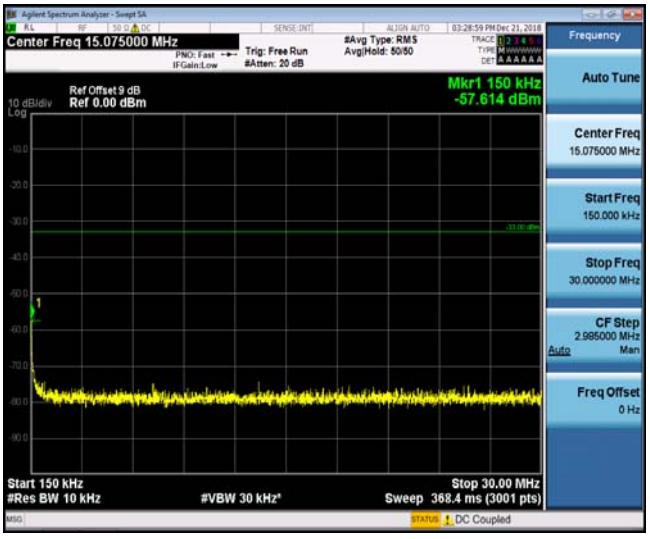

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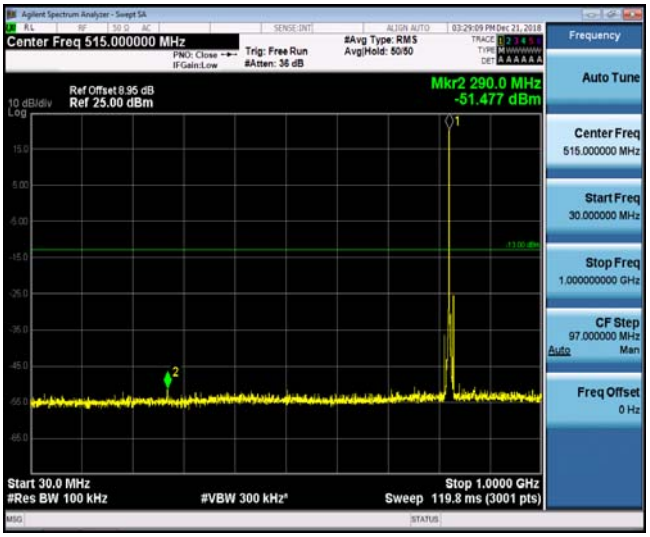

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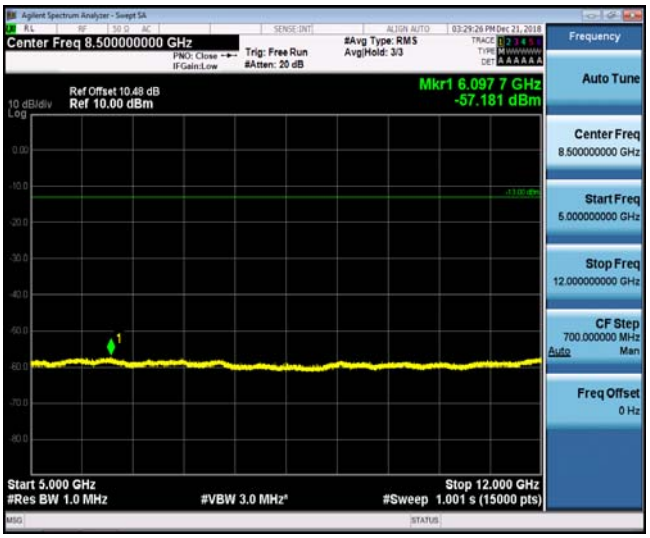

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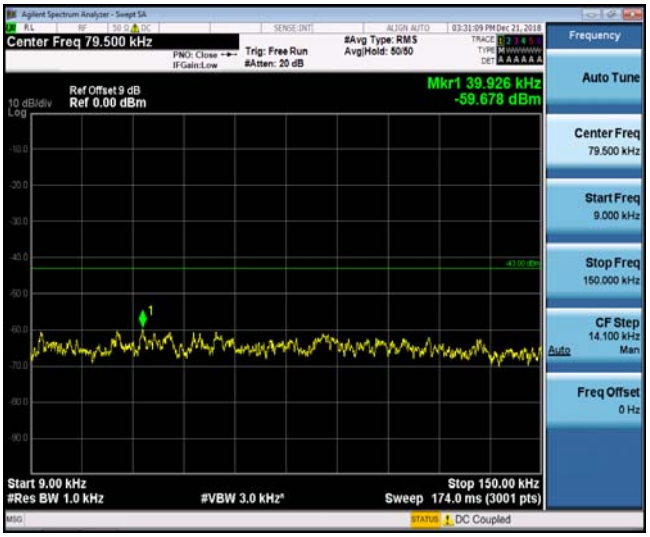

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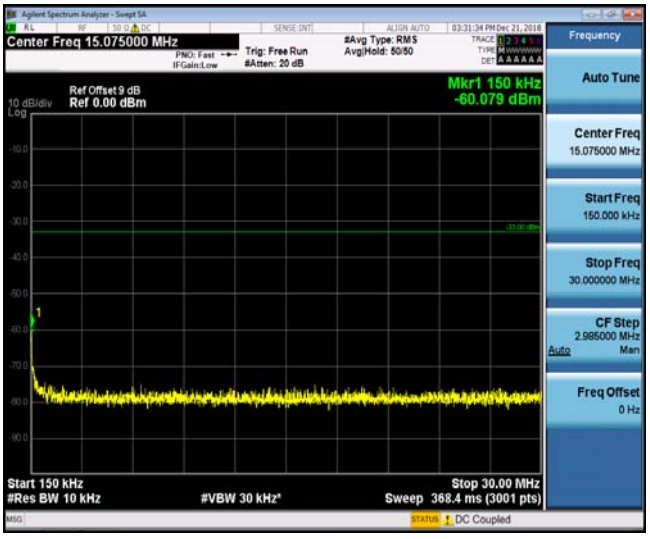

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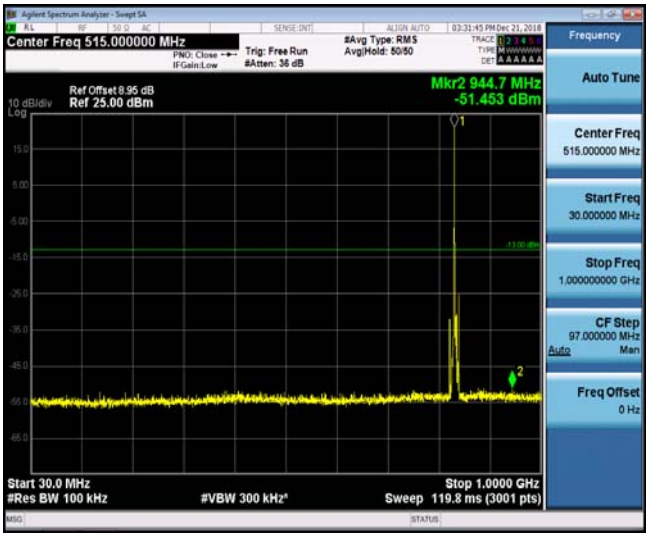

Band5_5MHz_16QAM_20525_1RB#0

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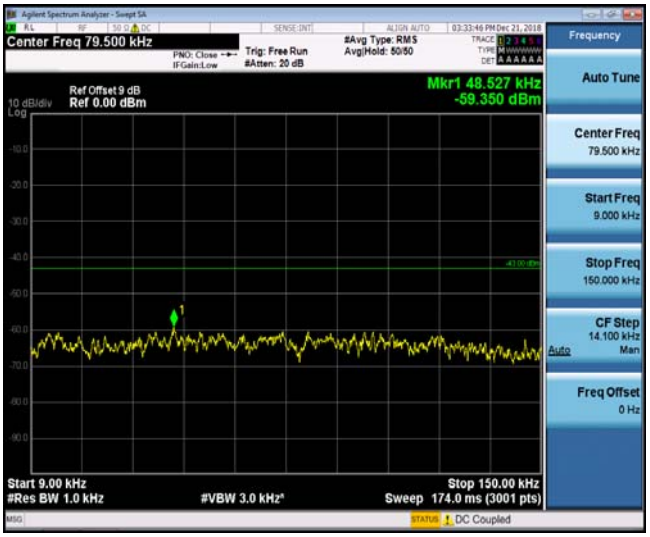

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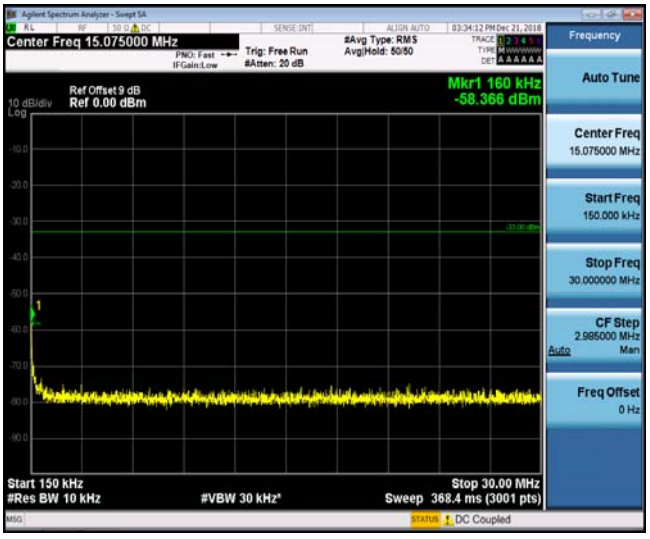

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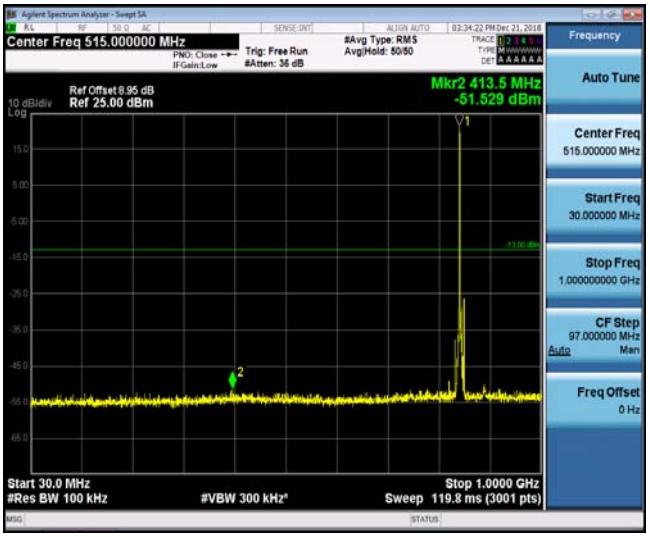

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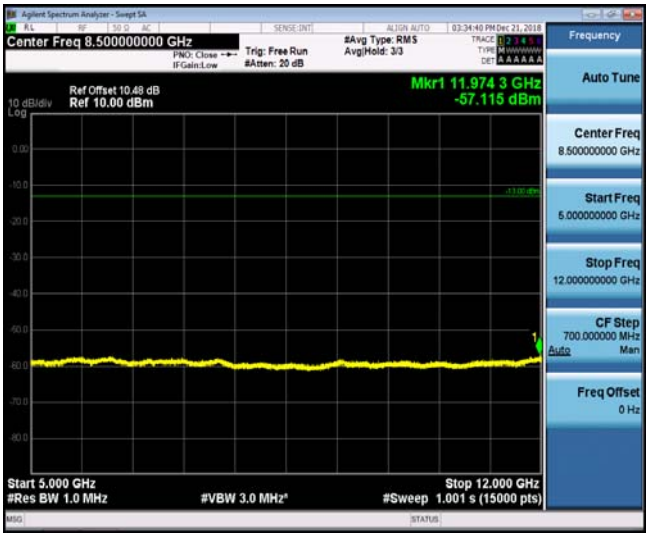

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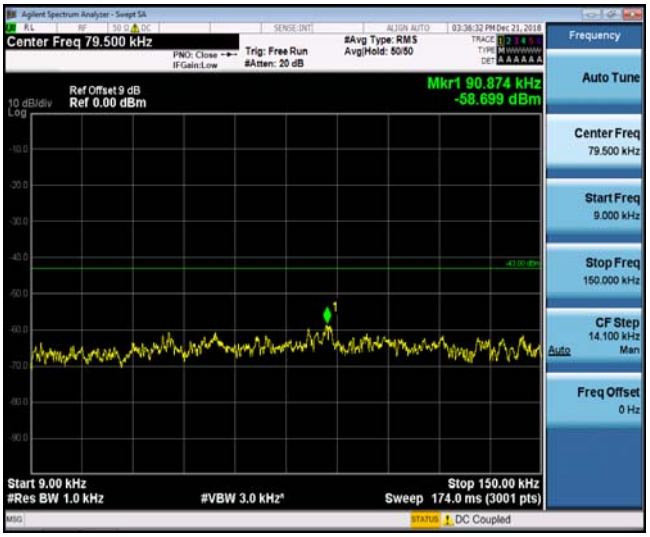
Band5_10MHz_QPSK_20450_1RB#0



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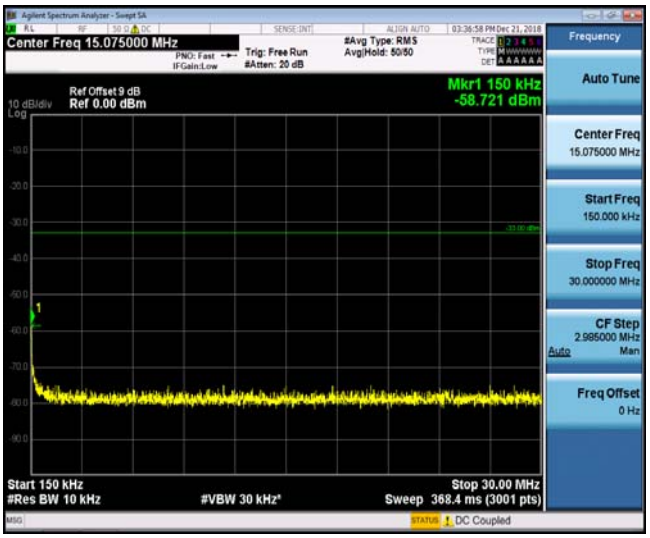

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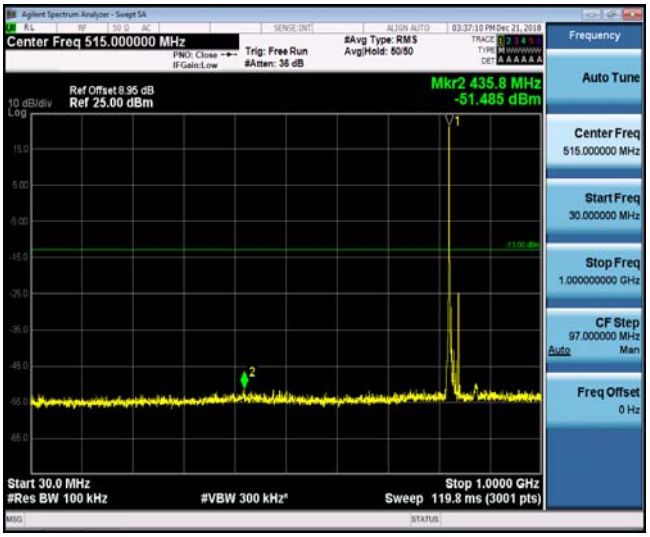

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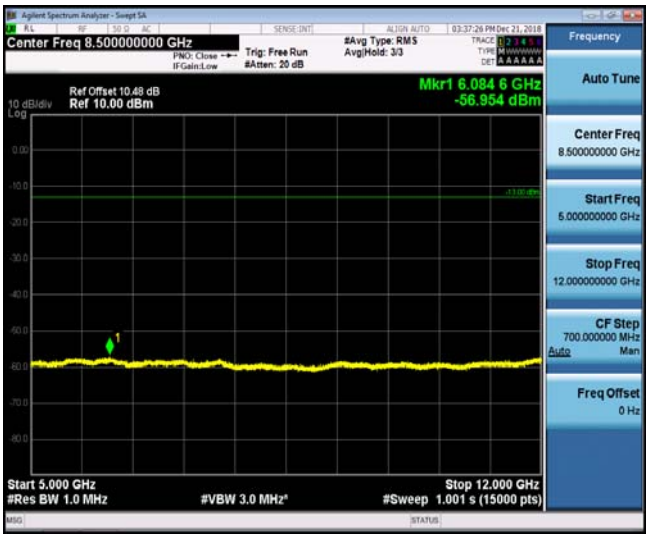

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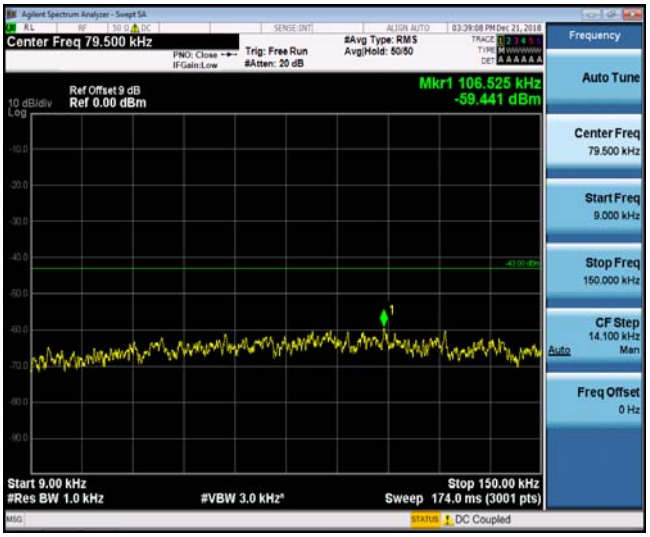

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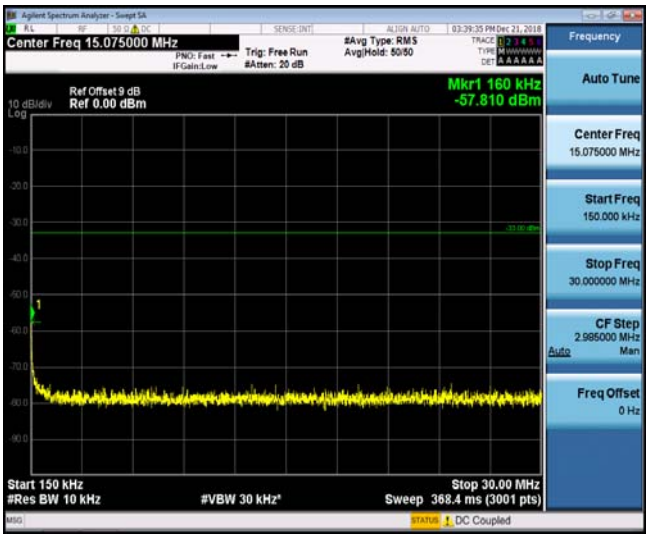

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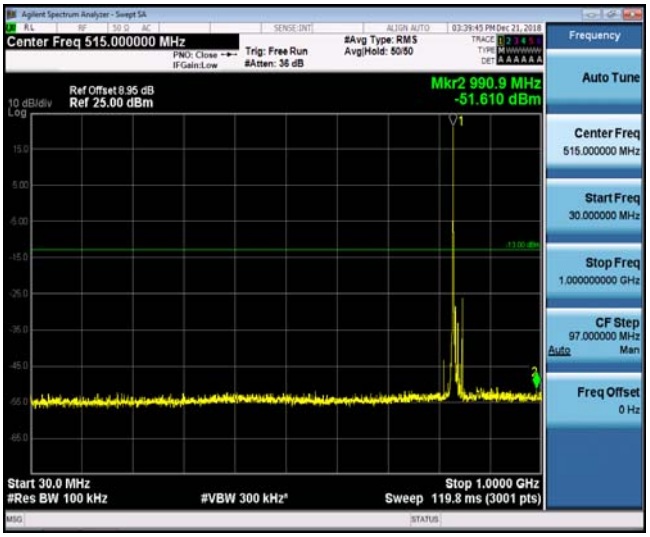

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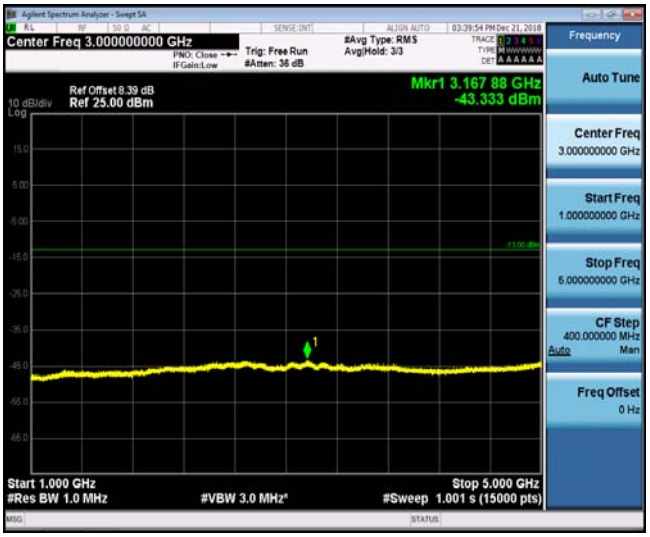
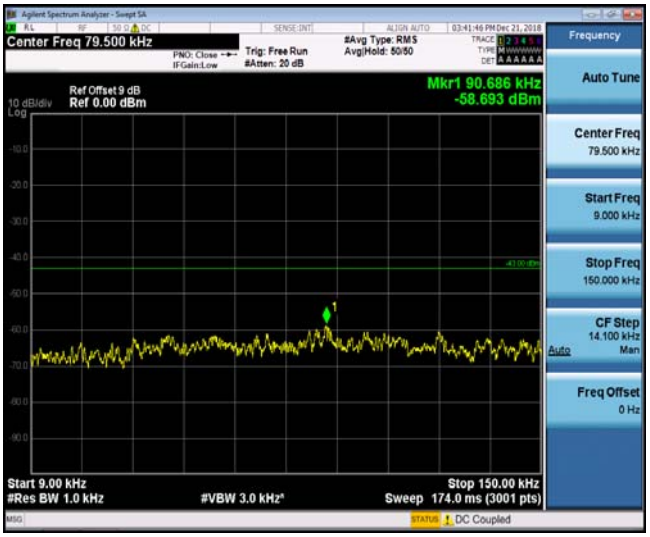


Band5_10MHz_QPSK_20525_1RB#0

Band5_10MHz_QPSK_20525_1RB#0

Band5_10MHz_QPSK_20600_1RB#0



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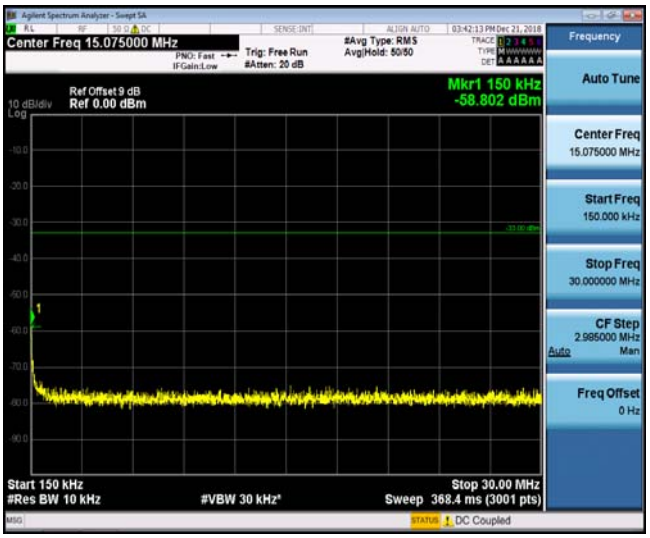

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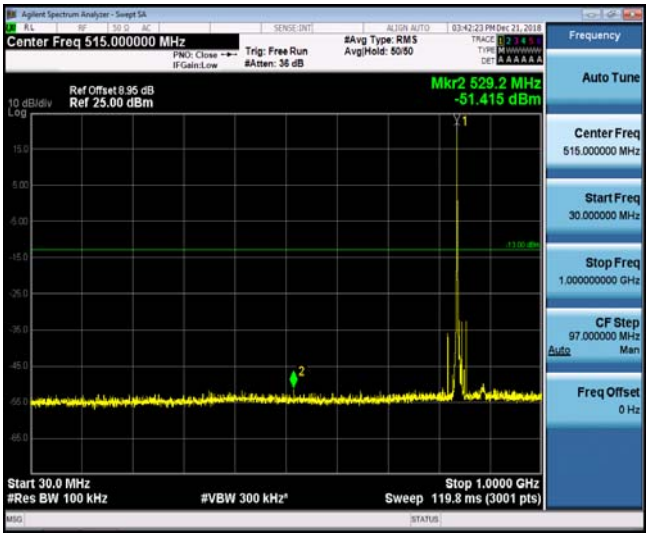

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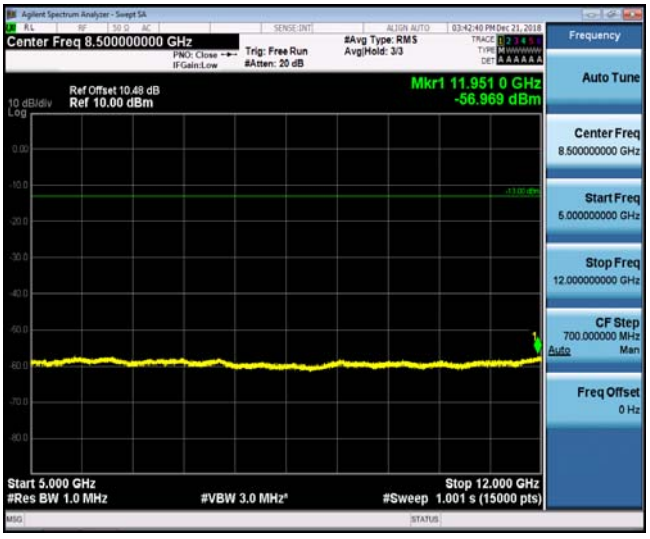
Band5_10MHz_QPSK_20600_1RB#0



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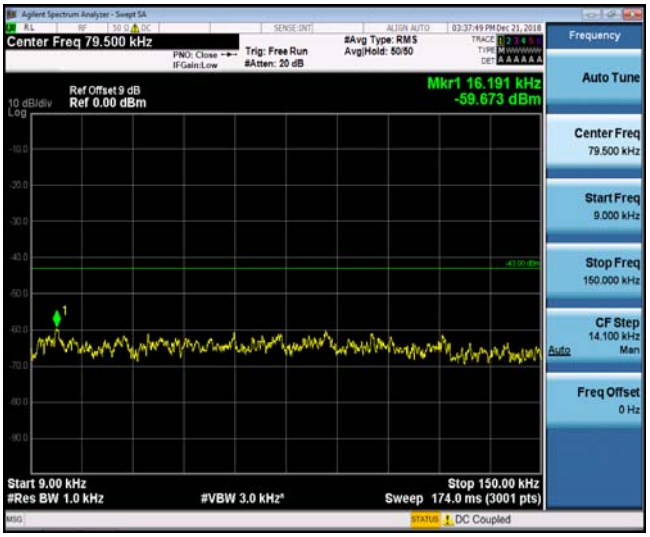
Band5_10MHz_16QAM_20450_1RB#0



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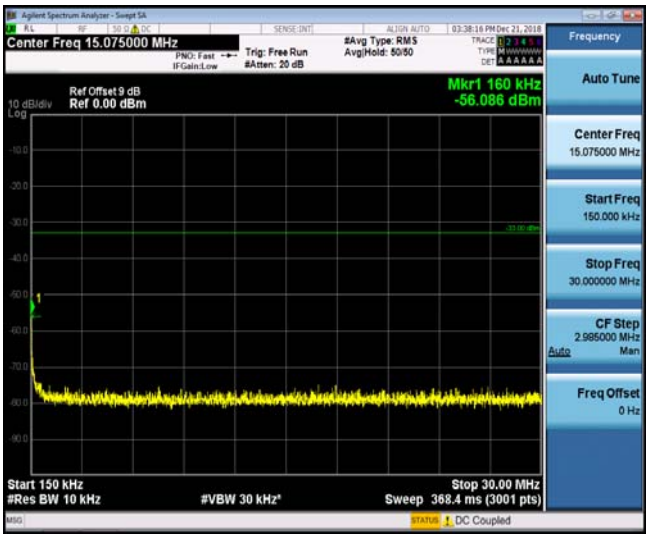
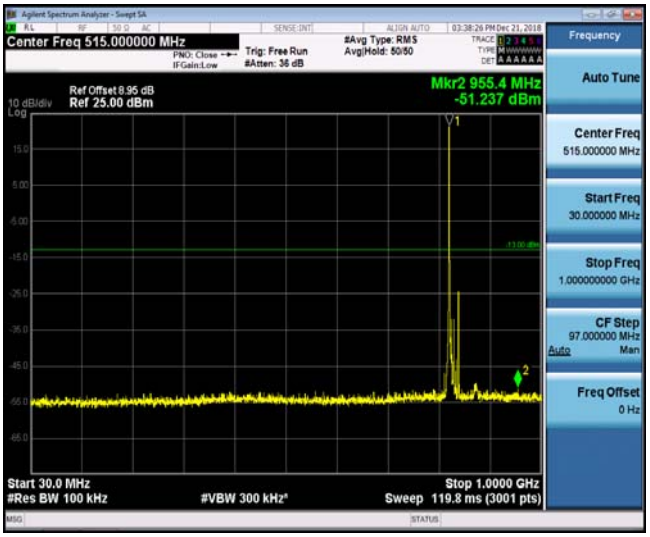
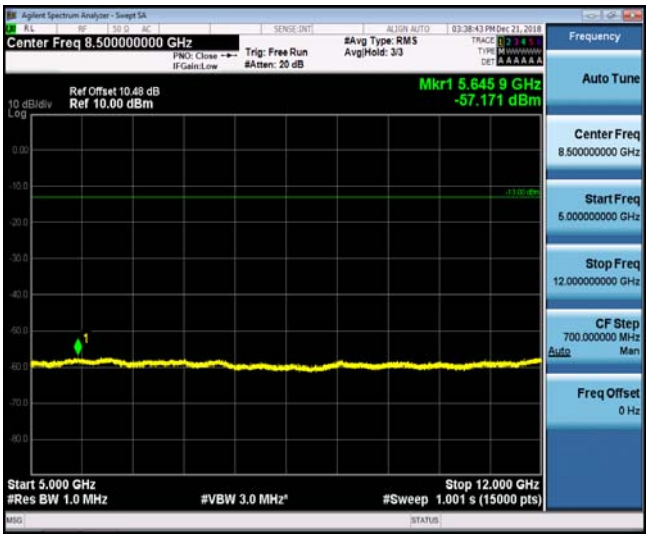


Band5_10MHz_16QAM_20450_1RB#0



Band5_10MHz_16QAM_20450_1RB#0

Band5_10MHz_16QAM_20450_1RB#0



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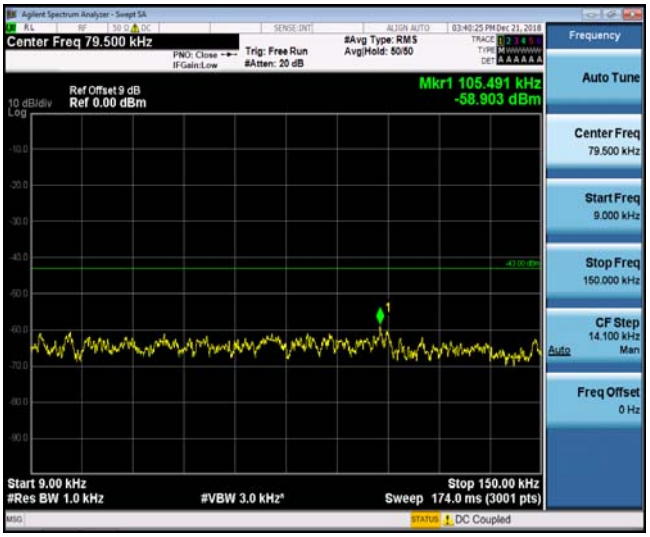
Band5_10MHz_16QAM_20525_1RB#0



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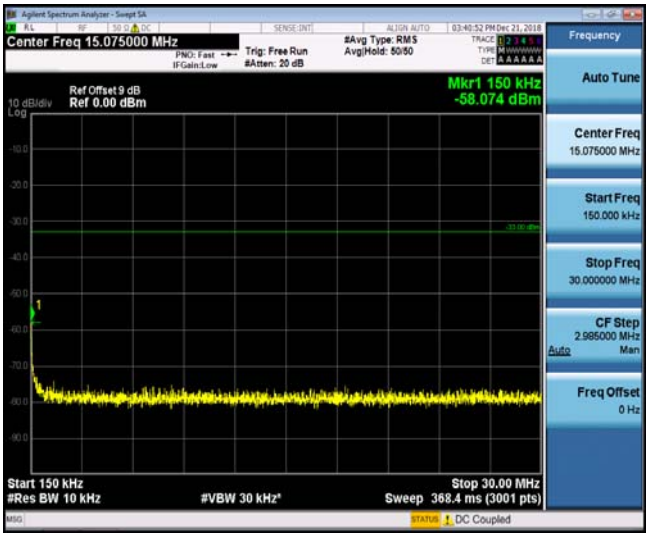
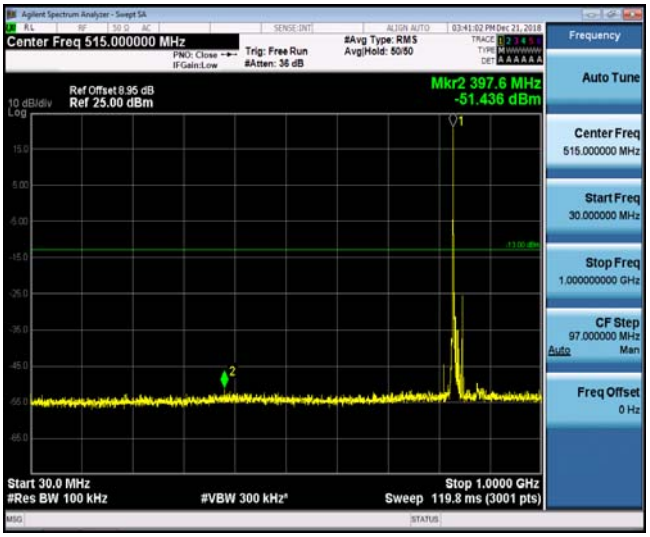


Band5_10MHz_16QAM_20525_1RB#0



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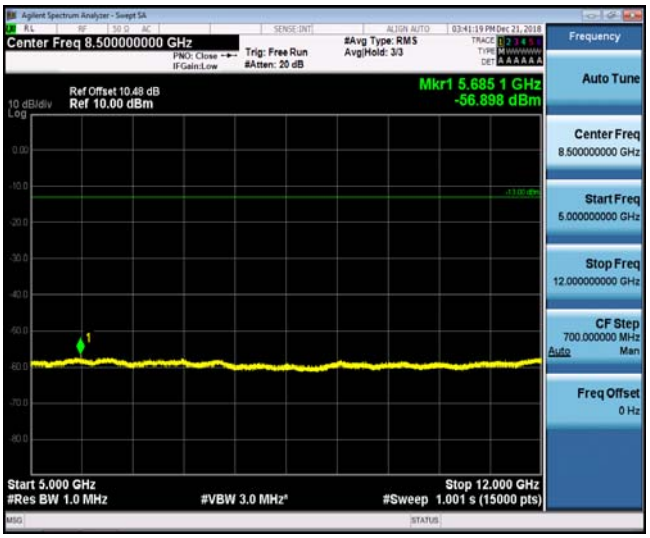
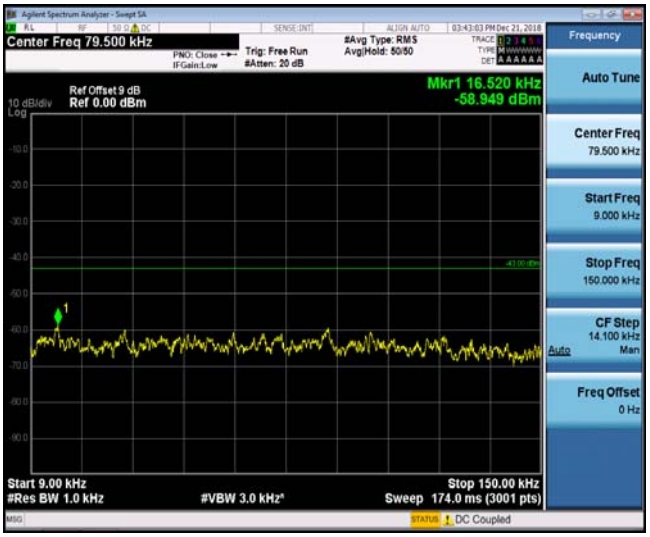
Band5_10MHz_16QAM_20525_1RB#0

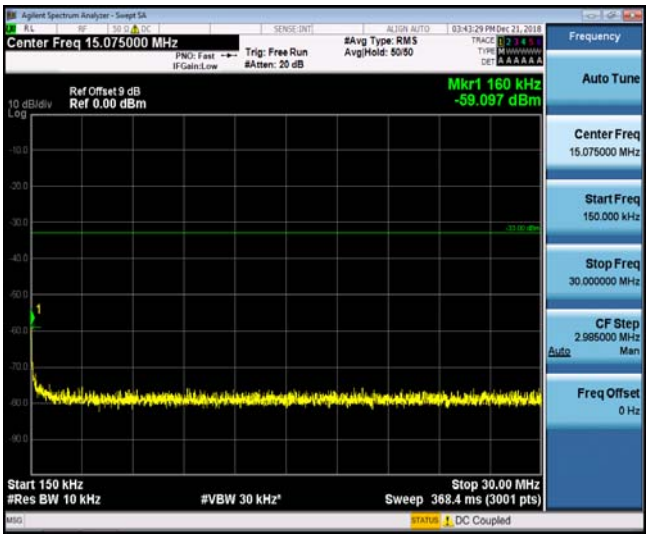


Band5_10MHz_16QAM_20525_1RB#0

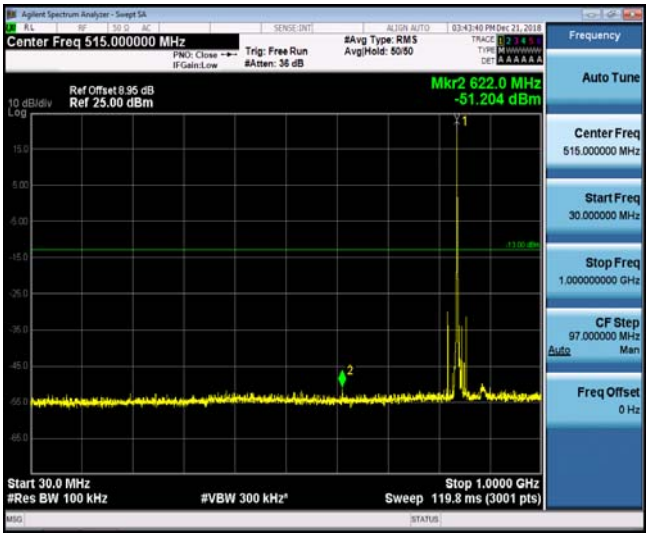
Band5_10MHz_16QAM_20600_1RB#0



Band5_10MHz_16QAM_20600_1RB#0

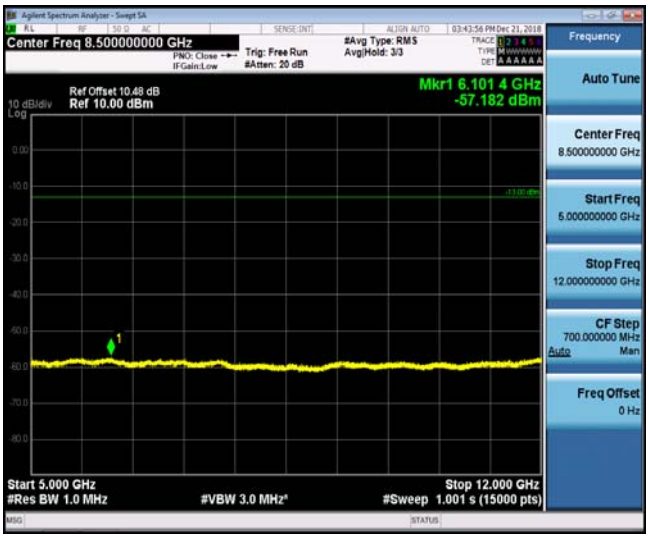


Band5_10MHz_16QAM_20600_1RB#0



Band5_10MHz_16QAM_20600_1RB#0

Band5_10MHz_16QAM_20600_1RB#0



Band5_10MHz_16QAM_20600_1RB#0


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.000000000 GHz
PNO: Close
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 3/3
03:44:05 PM Dec 21, 2018
Ref Offset 18.76 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 16.424 7 GHz
-43.722 dBm
Start 12.000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 18.000 GHz
#Sweep 1.001 s (15000 pts)
Frequency
Auto Tune
Center Freq
15.000000000 GHz
Start Freq
12.000000000 GHz
Stop Freq
18.000000000 GHz
CF Step
600.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.55	0.005517	± 2.5	PASS
		VN	TN	1.68	0.002037	± 2.5	PASS
		VH	TN	3.89	0.004717	± 2.5	PASS
	MCH	VL	TN	3.26	0.003897	± 2.5	PASS
		VN	TN	-0.53	-0.000634	± 2.5	PASS
		VH	TN	4.17	0.004985	± 2.5	PASS
	HCH	VL	TN	0.93	0.001096	± 2.5	PASS
		VN	TN	4.27	0.005034	± 2.5	PASS
		VH	TN	4.98	0.005871	± 2.5	PASS
16QAM	LCH	VL	TN	3.81	0.004620	± 2.5	PASS
		VN	TN	1.85	0.002243	± 2.5	PASS
		VH	TN	2.98	0.003613	± 2.5	PASS
	MCH	VL	TN	-0.75	-0.000897	± 2.5	PASS
		VN	TN	-1.72	-0.002056	± 2.5	PASS
		VH	TN	1.53	0.001829	± 2.5	PASS
	HCH	VL	TN	-0.51	-0.000601	± 2.5	PASS
		VN	TN	-1.9	-0.002240	± 2.5	PASS
		VH	TN	2.62	0.003089	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.02	0.000024	± 2.5	PASS
		VN	-20	-0.77	-0.000934	± 2.5	PASS
		VN	-10	1.82	0.002207	± 2.5	PASS
		VN	0	1.71	0.002073	± 2.5	PASS
		VN	10	3.94	0.004777	± 2.5	PASS
		VN	20	0.07	0.000085	± 2.5	PASS
		VN	30	-0.5	-0.000606	± 2.5	PASS
		VN	40	2.67	0.003238	± 2.5	PASS
		VN	50	-1.36	-0.001649	± 2.5	PASS
	MCH	VN	-30	0.73	0.000873	± 2.5	PASS
		VN	-20	-0.61	-0.000729	± 2.5	PASS

		VN	-10	-0.96	-0.001148	± 2.5	PASS
		VN	0	1.29	0.001542	± 2.5	PASS
		VN	10	1.97	0.002355	± 2.5	PASS
		VN	20	-0.97	-0.001160	± 2.5	PASS
		VN	30	-0.65	-0.000777	± 2.5	PASS
		VN	40	-0.2	-0.000239	± 2.5	PASS
		VN	50	-0.91	-0.001088	± 2.5	PASS
	HCH	VN	-30	0.68	0.000802	± 2.5	PASS
		VN	-20	2.76	0.003254	± 2.5	PASS
		VN	-10	1.46	0.001721	± 2.5	PASS
		VN	0	-1.47	-0.001733	± 2.5	PASS
		VN	10	-0.49	-0.000578	± 2.5	PASS
		VN	20	2.05	0.002417	± 2.5	PASS
		VN	30	-0.3	-0.000354	± 2.5	PASS
		VN	40	0.59	0.000696	± 2.5	PASS
		VN	50	1.64	0.001933	± 2.5	PASS
16QAM	LCH	VN	-30	-0.67	-0.000812	± 2.5	PASS
		VN	-20	3.36	0.004074	± 2.5	PASS
		VN	-10	-0.88	-0.001067	± 2.5	PASS
		VN	0	2.32	0.002813	± 2.5	PASS
		VN	10	0.18	0.000218	± 2.5	PASS
		VN	20	4.67	0.005663	± 2.5	PASS
		VN	30	4.1	0.004972	± 2.5	PASS
		VN	40	-0.57	-0.000691	± 2.5	PASS
		VN	50	2.85	0.003456	± 2.5	PASS
	MCH	VN	-30	2.06	0.002428	± 2.5	PASS
		VN	-20	-1.8	-0.002122	± 2.5	PASS
		VN	-10	2.24	0.002641	± 2.5	PASS
		VN	0	-0.32	-0.000377	± 2.5	PASS
		VN	10	1.15	0.001356	± 2.5	PASS
		VN	20	0.91	0.001073	± 2.5	PASS
		VN	30	4.14	0.004880	± 2.5	PASS
		VN	40	-0.38	-0.000448	± 2.5	PASS
		VN	50	2.36	0.002782	± 2.5	PASS
	HCH	VN	-30	2.11	0.002487	± 2.5	PASS
		VN	-20	0.25	0.000295	± 2.5	PASS
		VN	-10	2	0.002358	± 2.5	PASS
		VN	0	-1.42	-0.001674	± 2.5	PASS
		VN	10	4.24	0.004998	± 2.5	PASS
		VN	20	-0.65	-0.000766	± 2.5	PASS
		VN	30	-1.6	-0.001886	± 2.5	PASS

		VN	40	2.08	0.002452	± 2.5	PASS
		VN	50	-1.3	-0.001532	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.19	-0.000230	± 2.5	PASS
		VN	TN	1.19	0.001442	± 2.5	PASS
		VH	TN	1.38	0.001672	± 2.5	PASS
	MCH	VL	TN	-1.4	-0.001674	± 2.5	PASS
		VN	TN	1.08	0.001291	± 2.5	PASS
		VH	TN	2.7	0.003228	± 2.5	PASS
	HCH	VL	TN	-0.44	-0.000519	± 2.5	PASS
		VN	TN	0.58	0.000684	± 2.5	PASS
		VH	TN	3.54	0.004177	± 2.5	PASS
16QAM	LCH	VL	TN	-0.04	-0.000048	± 2.5	PASS
		VN	TN	2.9	0.003513	± 2.5	PASS
		VH	TN	4.41	0.005342	± 2.5	PASS
	MCH	VL	TN	-0.44	-0.000526	± 2.5	PASS
		VN	TN	1.5	0.001793	± 2.5	PASS
		VH	TN	4.39	0.005248	± 2.5	PASS
	HCH	VL	TN	0.92	0.001086	± 2.5	PASS
		VN	TN	-1.17	-0.001381	± 2.5	PASS
		VH	TN	-0.06	-0.000071	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.34	0.002835	± 2.5	PASS
		VN	-20	-1.39	-0.001684	± 2.5	PASS
		VN	-10	-1.32	-0.001599	± 2.5	PASS
		VN	0	3.66	0.004434	± 2.5	PASS
		VN	10	4.72	0.005718	± 2.5	PASS
		VN	20	3.99	0.004833	± 2.5	PASS
		VN	30	4.42	0.005354	± 2.5	PASS
		VN	40	2.96	0.003586	± 2.5	PASS
		VN	50	4.14	0.005015	± 2.5	PASS
	MCH	VN	-30	4.34	0.005188	± 2.5	PASS
		VN	-20	-1.31	-0.001566	± 2.5	PASS
		VN	-10	4.17	0.004985	± 2.5	PASS

		VN	0	-0.62	-0.000741	± 2.5	PASS
		VN	10	0.03	0.000036	± 2.5	PASS
		VN	20	1.24	0.001482	± 2.5	PASS
		VN	30	3.78	0.004519	± 2.5	PASS
		VN	40	2.91	0.003479	± 2.5	PASS
		VN	50	-0.97	-0.001160	± 2.5	PASS
	HCH	VN	-30	0.46	0.000543	± 2.5	PASS
		VN	-20	-1.67	-0.001971	± 2.5	PASS
		VN	-10	2.45	0.002891	± 2.5	PASS
		VN	0	2.56	0.003021	± 2.5	PASS
		VN	10	2.78	0.003280	± 2.5	PASS
		VN	20	0.97	0.001145	± 2.5	PASS
		VN	30	4.15	0.004897	± 2.5	PASS
		VN	40	0.53	0.000625	± 2.5	PASS
		VN	50	3.28	0.003870	± 2.5	PASS
16QAM	LCH	VN	-30	-0.07	-0.000084	± 2.5	PASS
		VN	-20	-1.66	-0.001984	± 2.5	PASS
		VN	-10	3.39	0.004053	± 2.5	PASS
		VN	0	-1.72	-0.002056	± 2.5	PASS
		VN	10	3.72	0.004447	± 2.5	PASS
		VN	20	1.6	0.001913	± 2.5	PASS
		VN	30	0.04	0.000048	± 2.5	PASS
		VN	40	4.44	0.005308	± 2.5	PASS
		VN	50	4.67	0.005583	± 2.5	PASS
	MCH	VN	-30	0.43	0.000507	± 2.5	PASS
		VN	-20	2.47	0.002914	± 2.5	PASS
		VN	-10	4.19	0.004944	± 2.5	PASS
		VN	0	4.93	0.005817	± 2.5	PASS
		VN	10	-1.83	-0.002159	± 2.5	PASS
		VN	20	-0.75	-0.000885	± 2.5	PASS
		VN	30	0.21	0.000248	± 2.5	PASS
		VN	40	3.02	0.003563	± 2.5	PASS
		VN	50	-1.28	-0.001510	± 2.5	PASS
	HCH	VN	-30	-0.58	-0.000684	± 2.5	PASS
		VN	-20	2.98	0.003516	± 2.5	PASS
		VN	-10	3.13	0.003693	± 2.5	PASS
		VN	0	-0.85	-0.001003	± 2.5	PASS
		VN	10	1.95	0.002301	± 2.5	PASS
		VN	20	2.21	0.002608	± 2.5	PASS
		VN	30	-0.09	-0.000106	± 2.5	PASS
		VN	40	3.85	0.004543	± 2.5	PASS

		VN	50	-0.19	-0.000224	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.23	0.002698	± 2.5	PASS
		VN	TN	-1.61	-0.001948	± 2.5	PASS
		VH	TN	-1.07	-0.001295	± 2.5	PASS
	MCH	VL	TN	4.36	0.005212	± 2.5	PASS
		VN	TN	3.61	0.004316	± 2.5	PASS
		VH	TN	-1.6	-0.001913	± 2.5	PASS
	HCH	VL	TN	0.8	0.000945	± 2.5	PASS
		VN	TN	2.41	0.002847	± 2.5	PASS
		VH	TN	0.11	0.000130	± 2.5	PASS
16QAM	LCH	VL	TN	0.61	0.000738	± 2.5	PASS
		VN	TN	-1.82	-0.002202	± 2.5	PASS
		VH	TN	-1.47	-0.001779	± 2.5	PASS
	MCH	VL	TN	0.38	0.000454	± 2.5	PASS
		VN	TN	2.31	0.002762	± 2.5	PASS
		VH	TN	4.03	0.004818	± 2.5	PASS
	HCH	VL	TN	-1.35	-0.001595	± 2.5	PASS
		VN	TN	2.17	0.002563	± 2.5	PASS
		VH	TN	-0.67	-0.000791	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.13	0.003787	± 2.5	PASS
		VN	-20	3.26	0.003944	± 2.5	PASS
		VN	-10	1.69	0.002045	± 2.5	PASS
		VN	0	1.64	0.001984	± 2.5	PASS
		VN	10	3.49	0.004223	± 2.5	PASS
		VN	20	-0.34	-0.000411	± 2.5	PASS
		VN	30	-0.97	-0.001174	± 2.5	PASS
		VN	40	4.69	0.005675	± 2.5	PASS
		VN	50	-1.91	-0.002311	± 2.5	PASS
	MCH	VN	-30	-1.39	-0.001662	± 2.5	PASS
		VN	-20	2.74	0.003276	± 2.5	PASS
		VN	-10	-1.73	-0.002068	± 2.5	PASS
		VN	0	4.92	0.005882	± 2.5	PASS

		VN	10	-0.16	-0.000191	± 2.5	PASS
		VN	20	0.98	0.001172	± 2.5	PASS
		VN	30	1.58	0.001889	± 2.5	PASS
		VN	40	4.12	0.004925	± 2.5	PASS
		VN	50	0.85	0.001016	± 2.5	PASS
	HCH	VN	-30	0.96	0.001134	± 2.5	PASS
		VN	-20	3.78	0.004465	± 2.5	PASS
		VN	-10	4.36	0.005151	± 2.5	PASS
		VN	0	3.01	0.003556	± 2.5	PASS
		VN	10	3.52	0.004158	± 2.5	PASS
		VN	20	0.27	0.000319	± 2.5	PASS
		VN	30	0.15	0.000177	± 2.5	PASS
		VN	40	1.84	0.002174	± 2.5	PASS
		VN	50	-0.52	-0.000614	± 2.5	PASS
	LCH	VN	-30	2.67	0.003192	± 2.5	PASS
		VN	-20	4.93	0.005894	± 2.5	PASS
		VN	-10	4.27	0.005105	± 2.5	PASS
		VN	0	0.33	0.000395	± 2.5	PASS
		VN	10	1.64	0.001961	± 2.5	PASS
		VN	20	4.43	0.005296	± 2.5	PASS
		VN	30	-0.78	-0.000932	± 2.5	PASS
		VN	40	1.23	0.001470	± 2.5	PASS
		VN	50	2.97	0.003551	± 2.5	PASS
	MCH	VN	-30	4.69	0.005540	± 2.5	PASS
		VN	-20	-0.16	-0.000189	± 2.5	PASS
		VN	-10	0.77	0.000910	± 2.5	PASS
		VN	0	4.61	0.005446	± 2.5	PASS
16QAM		VN	10	2.69	0.003178	± 2.5	PASS
		VN	20	0.54	0.000638	± 2.5	PASS
		VN	30	1.49	0.001760	± 2.5	PASS
		VN	40	3.63	0.004288	± 2.5	PASS
		VN	50	1.29	0.001524	± 2.5	PASS
	HCH	VN	-30	1.47	0.001737	± 2.5	PASS
		VN	-20	2.72	0.003213	± 2.5	PASS
		VN	-10	1.28	0.001512	± 2.5	PASS
		VN	0	3.93	0.004643	± 2.5	PASS
		VN	10	0.44	0.000520	± 2.5	PASS
		VN	20	-0.87	-0.001028	± 2.5	PASS
		VN	30	2.33	0.002753	± 2.5	PASS
		VN	40	2.92	0.003449	± 2.5	PASS
		VN	50	4.39	0.005186	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.42	0.004125	± 2.5	PASS
		VN	TN	3.92	0.004729	± 2.5	PASS
		VH	TN	3.34	0.004029	± 2.5	PASS
	MCH	VL	TN	0.49	0.000586	± 2.5	PASS
		VN	TN	-1.79	-0.002140	± 2.5	PASS
		VH	TN	0.64	0.000765	± 2.5	PASS
	HCH	VL	TN	-0.03	-0.000036	± 2.5	PASS
		VN	TN	3.02	0.003578	± 2.5	PASS
		VH	TN	4.63	0.005486	± 2.5	PASS
16QAM	LCH	VL	TN	3.34	0.004029	± 2.5	PASS
		VN	TN	4.86	0.005862	± 2.5	PASS
		VH	TN	2.79	0.003366	± 2.5	PASS
	MCH	VL	TN	2.32	0.002773	± 2.5	PASS
		VN	TN	4.49	0.005368	± 2.5	PASS
		VH	TN	3.36	0.004017	± 2.5	PASS
	HCH	VL	TN	4.81	0.005699	± 2.5	PASS
		VN	TN	0.59	0.000699	± 2.5	PASS
		VH	TN	1.62	0.001919	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.54	0.003064	± 2.5	PASS
		VN	-20	1.51	0.001821	± 2.5	PASS
		VN	-10	-0.24	-0.000290	± 2.5	PASS
		VN	0	1.24	0.001496	± 2.5	PASS
		VN	10	-1.51	-0.001821	± 2.5	PASS
		VN	20	3.81	0.004596	± 2.5	PASS
		VN	30	0.52	0.000627	± 2.5	PASS
		VN	40	3.54	0.004270	± 2.5	PASS
		VN	50	2.51	0.003028	± 2.5	PASS
	MCH	VN	-30	2.34	0.002797	± 2.5	PASS
		VN	-20	-1.84	-0.002200	± 2.5	PASS
		VN	-10	4.67	0.005583	± 2.5	PASS
		VN	0	-1.19	-0.001423	± 2.5	PASS
		VN	10	1.01	0.001207	± 2.5	PASS
		VN	20	4.61	0.005511	± 2.5	PASS

		VN	30	1.81	0.002164	± 2.5	PASS
		VN	40	2.41	0.002881	± 2.5	PASS
		VN	50	4.61	0.005511	± 2.5	PASS
	HCH	VN	-30	4.79	0.005675	± 2.5	PASS
		VN	-20	-1.31	-0.001552	± 2.5	PASS
		VN	-10	3.93	0.004656	± 2.5	PASS
		VN	0	-0.55	-0.000652	± 2.5	PASS
		VN	10	-0.63	-0.000746	± 2.5	PASS
		VN	20	-1.96	-0.002322	± 2.5	PASS
		VN	30	-1.01	-0.001197	± 2.5	PASS
		VN	40	4	0.004739	± 2.5	PASS
		VN	50	1.24	0.001469	± 2.5	PASS
QPSK	LCH	VN	-30	2.57	0.003072	± 2.5	PASS
		VN	-20	4.94	0.005906	± 2.5	PASS
		VN	-10	-1.58	-0.001889	± 2.5	PASS
		VN	0	2.04	0.002439	± 2.5	PASS
		VN	10	0.94	0.001124	± 2.5	PASS
		VN	20	-0.1	-0.000120	± 2.5	PASS
		VN	30	0.49	0.000586	± 2.5	PASS
		VN	40	1.63	0.001949	± 2.5	PASS
		VN	50	4.38	0.005236	± 2.5	PASS
	MCH	VN	-30	-1.06	-0.001256	± 2.5	PASS
		VN	-20	3.98	0.004716	± 2.5	PASS
		VN	-10	0.67	0.000794	± 2.5	PASS
		VN	0	2.43	0.002879	± 2.5	PASS
		VN	10	1.37	0.001623	± 2.5	PASS
		VN	20	-0.14	-0.000166	± 2.5	PASS
		VN	30	-0.06	-0.000071	± 2.5	PASS
		VN	40	-1.31	-0.001552	± 2.5	PASS
		VN	50	-1.9	-0.002251	± 2.5	PASS
	HCH	VN	-30	0.04	0.000047	± 2.5	PASS
		VN	-20	1.56	0.001848	± 2.5	PASS
		VN	-10	0.42	0.000498	± 2.5	PASS
		VN	0	-1.21	-0.001434	± 2.5	PASS
		VN	10	1.9	0.002251	± 2.5	PASS
		VN	20	-0.18	-0.000213	± 2.5	PASS
		VN	30	-0.32	-0.000379	± 2.5	PASS
		VN	40	0.97	0.001149	± 2.5	PASS
		VN	50	0.51	0.000604	± 2.5	PASS