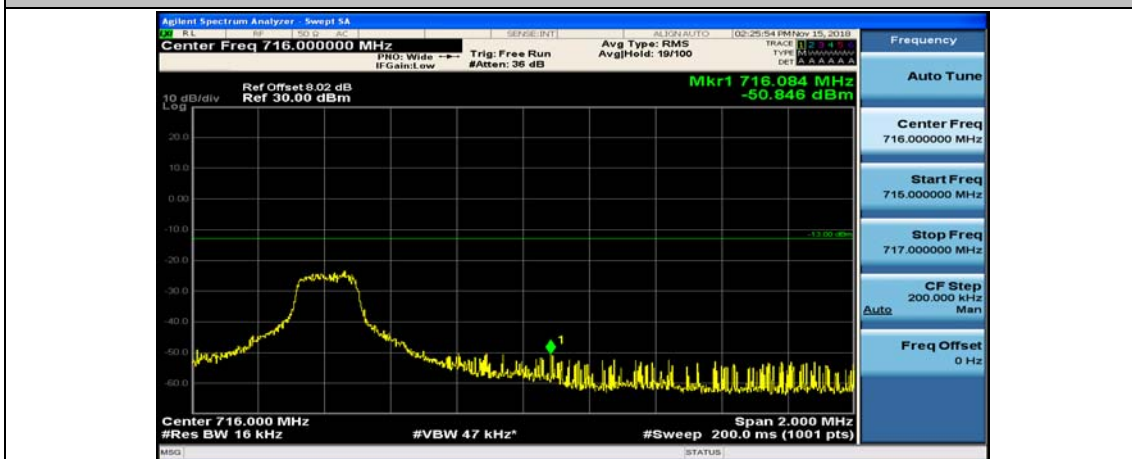




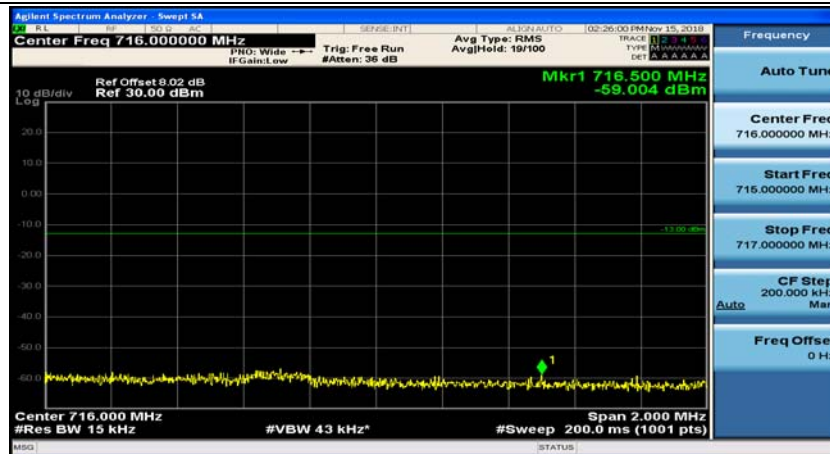
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



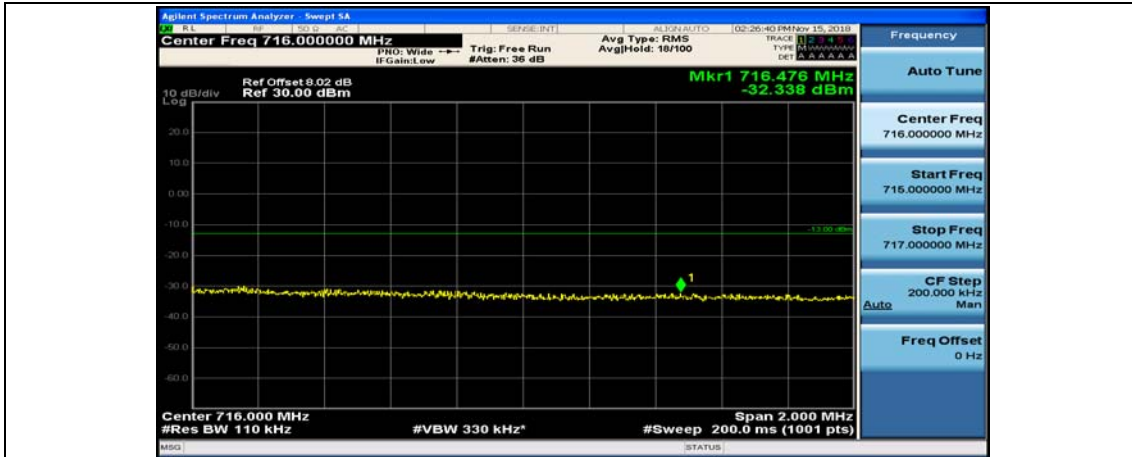
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



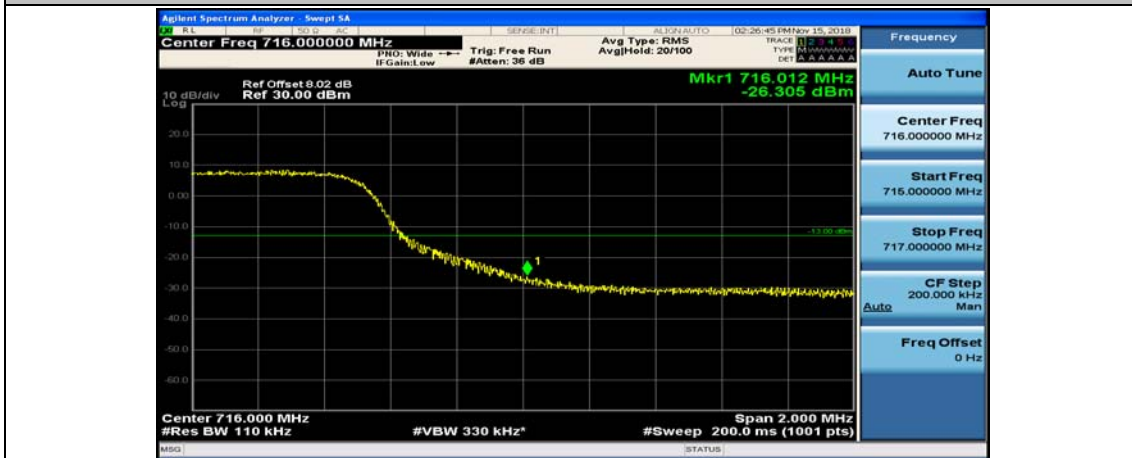
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



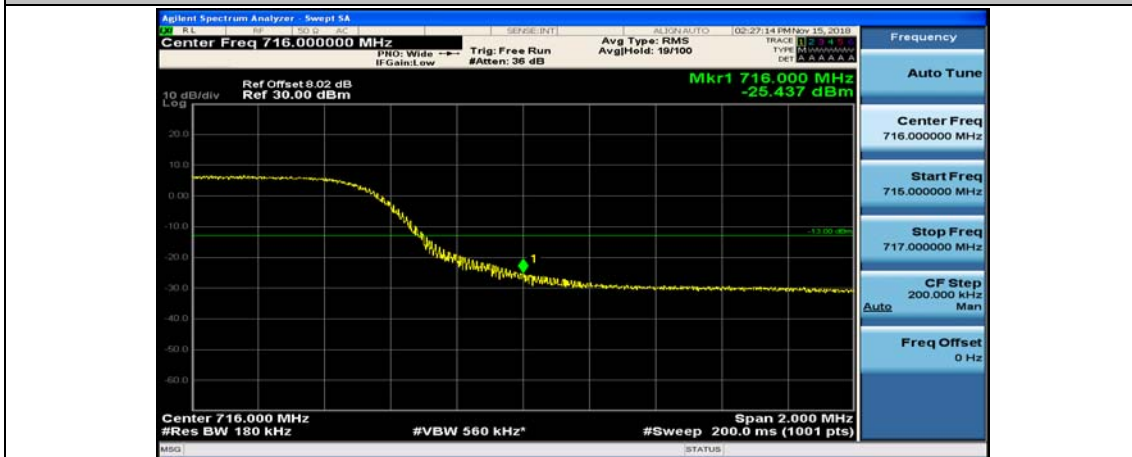
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



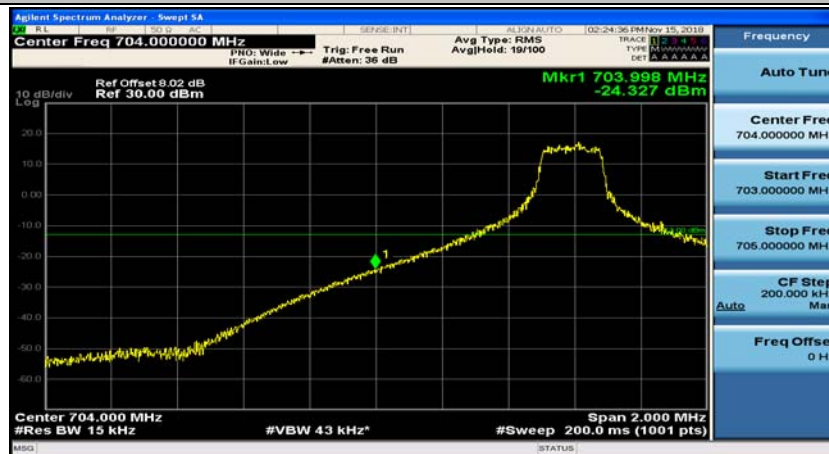
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25



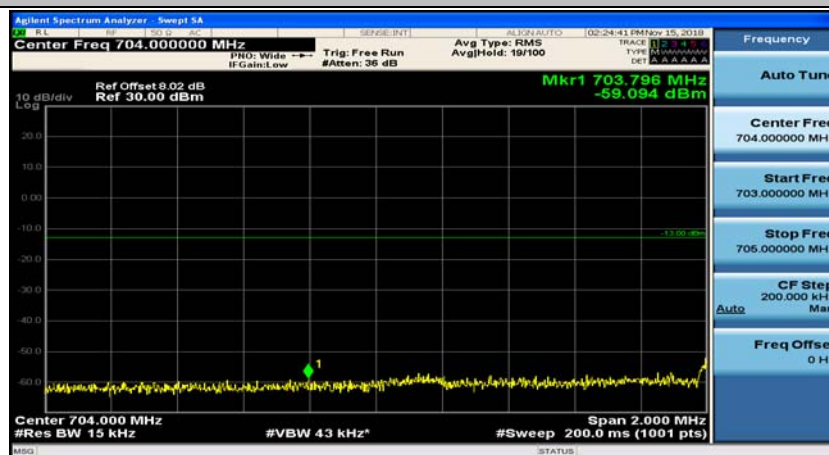
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



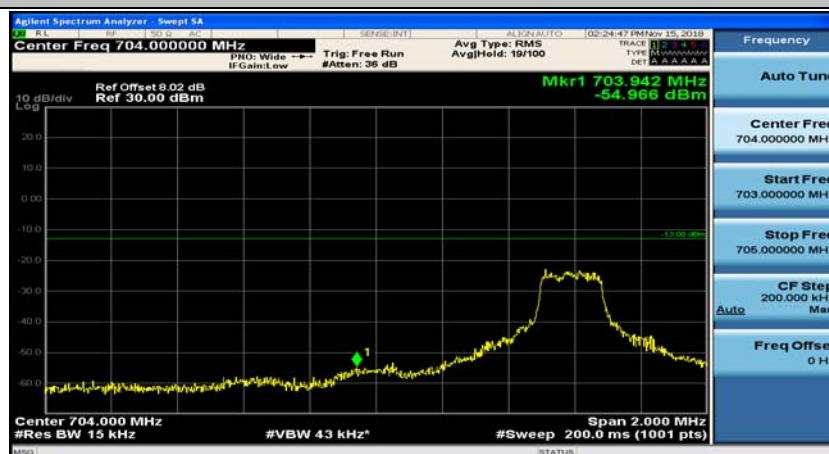
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



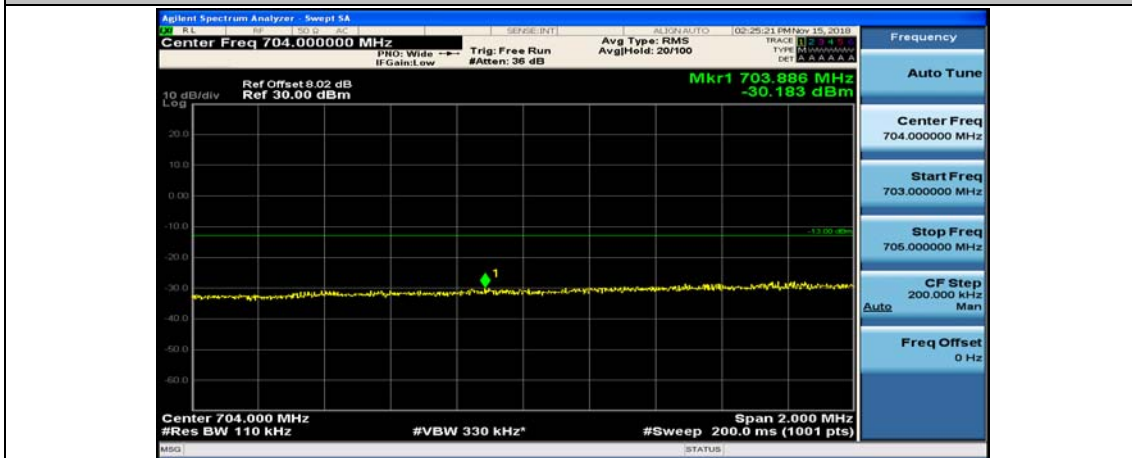
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



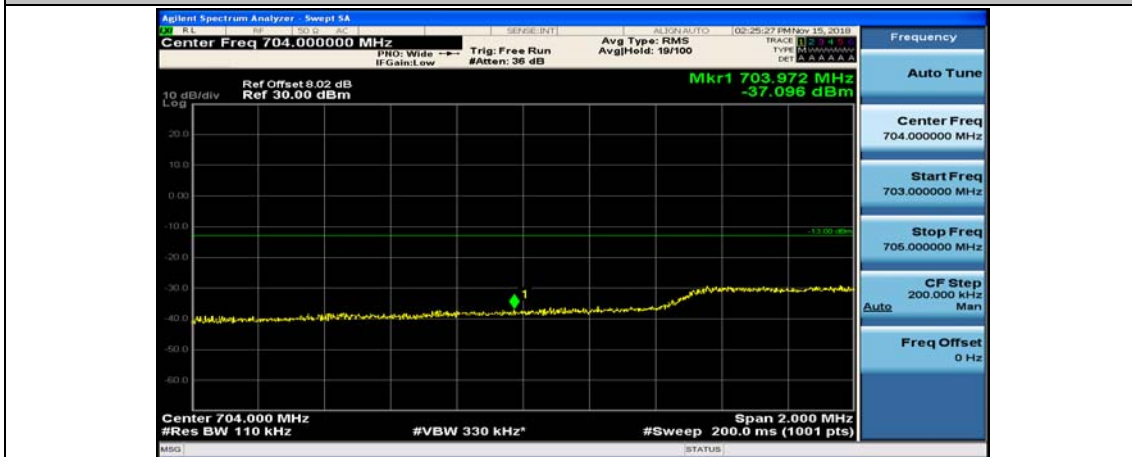
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



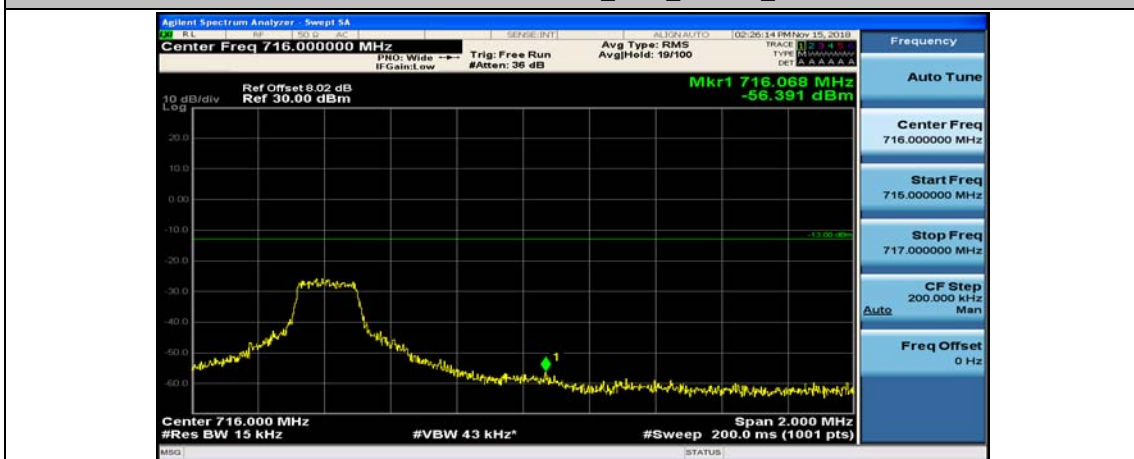
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25



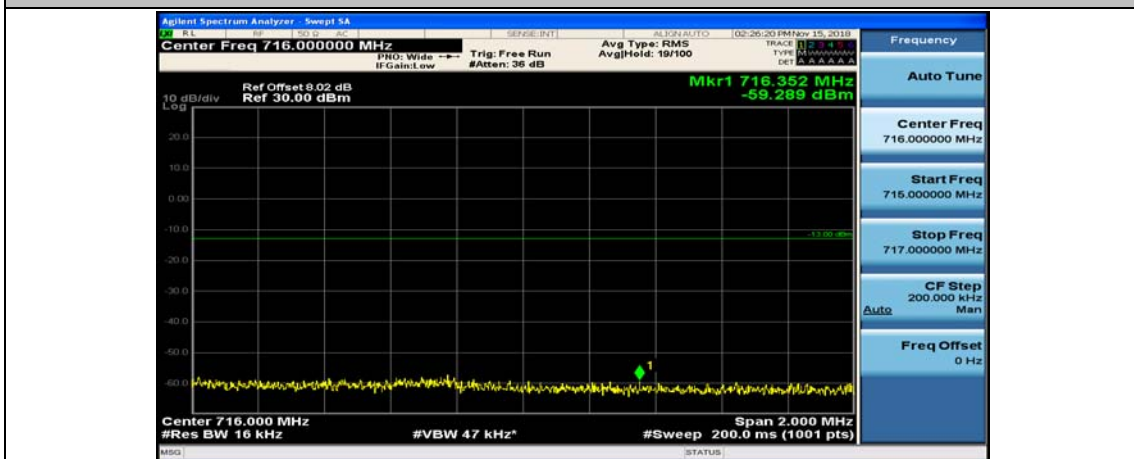
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



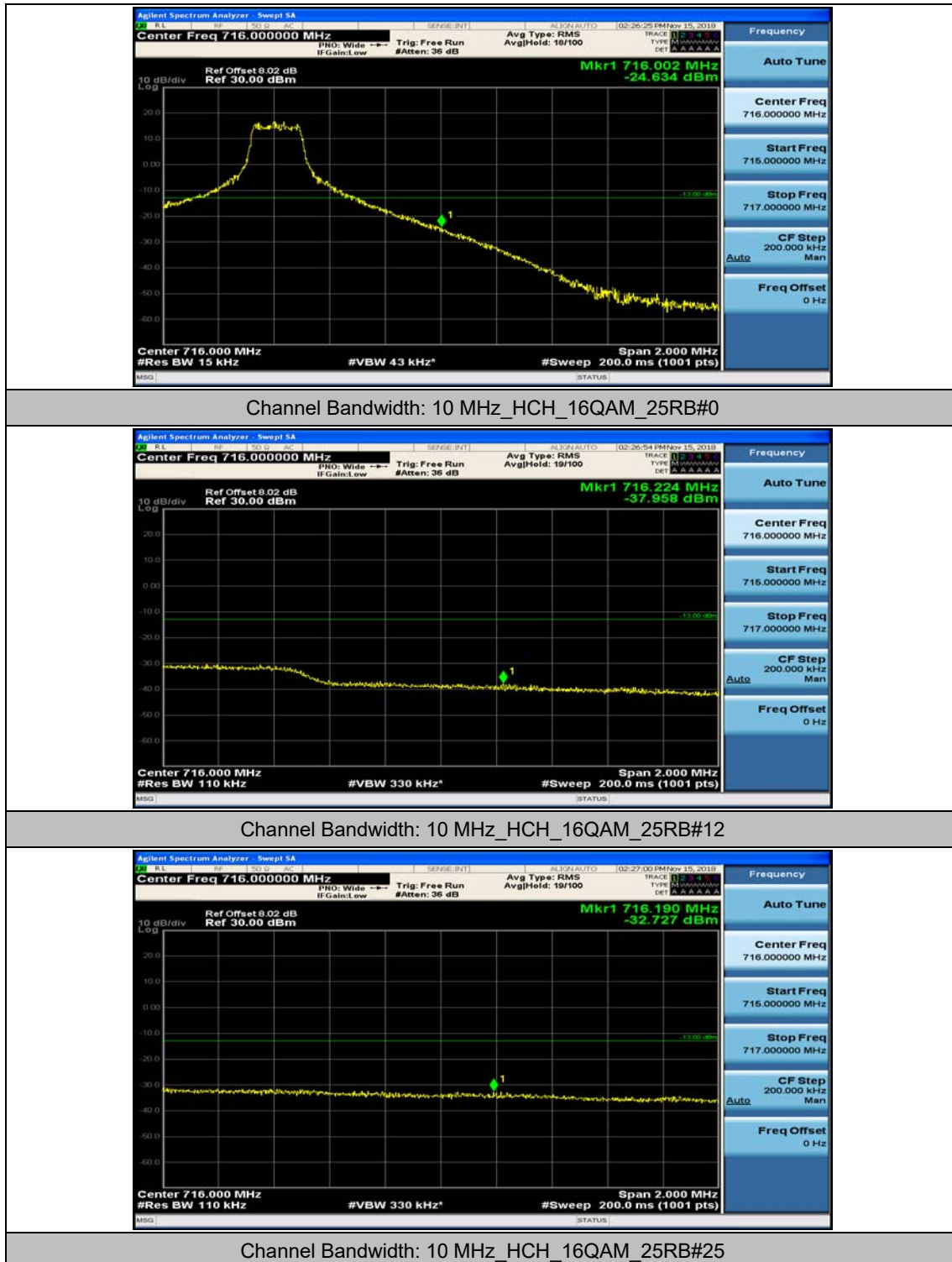
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

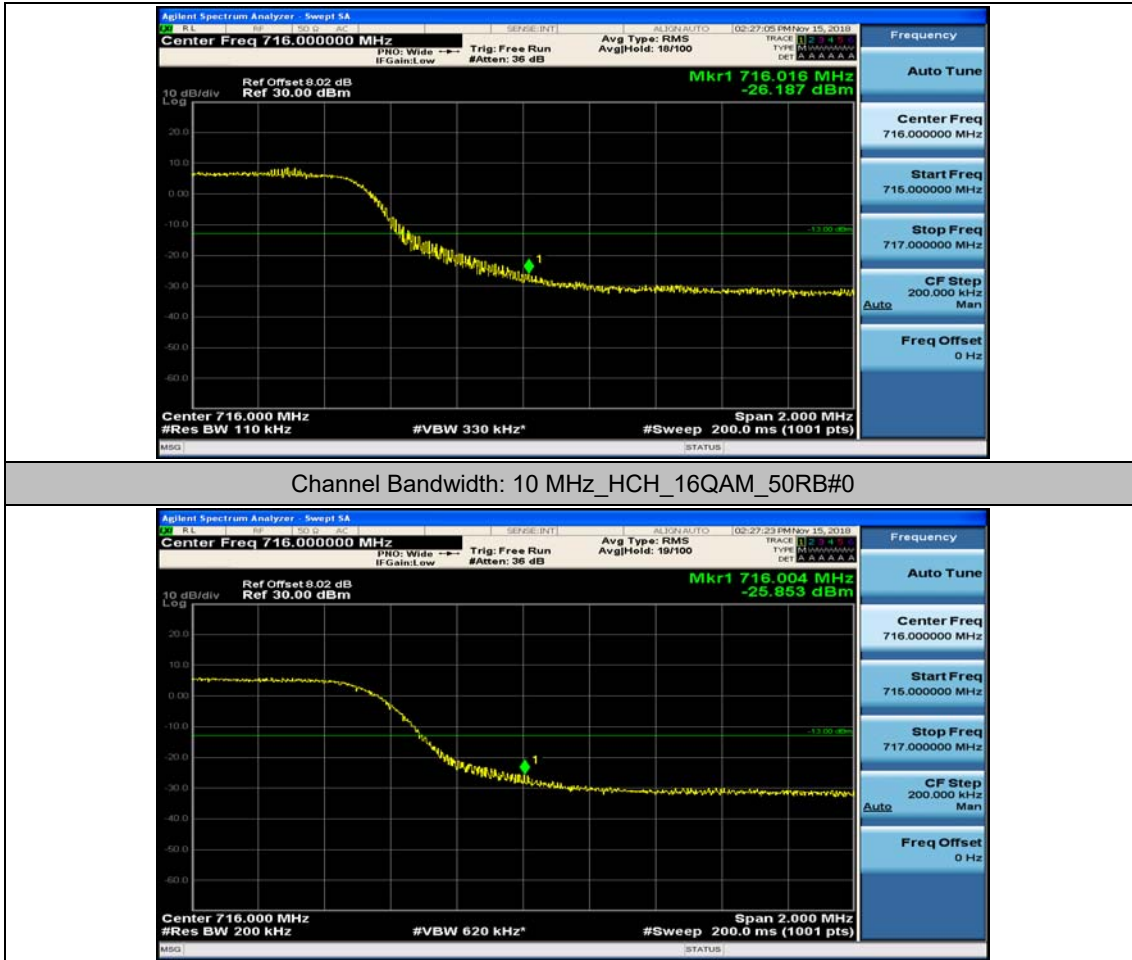


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



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
Band1 7	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15M Hz	-50.31	PASS
Band1 7	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-53.58	PASS
Band1 7	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-49.3	PASS
Band1 7	5MHz	QPSK	23755	1RB#0	Range4:1000~5000M Hz	-39.71	PASS
Band1 7	5MHz	QPSK	23755	1RB#0	Range5:5000~12000 MHz	-53.06	PASS
Band1 7	5MHz	QPSK	23755	1RB#0	Range6:12000~18000 MHz	-40.29	PASS
Band1 7	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15M Hz	-49.48	PASS
Band1 7	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-54.48	PASS
Band1 7	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-49.9	PASS
Band1 7	5MHz	QPSK	23790	1RB#0	Range4:1000~5000M Hz	-42.45	PASS
Band1 7	5MHz	QPSK	23790	1RB#0	Range5:5000~12000 MHz	-52.84	PASS
Band1 7	5MHz	QPSK	23790	1RB#0	Range6:12000~18000 MHz	-40.11	PASS
Band1 7	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15M Hz	-50.21	PASS
Band1 7	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-53.9	PASS
Band1 7	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-50.19	PASS
Band1 7	5MHz	QPSK	23825	1RB#0	Range4:1000~5000M Hz	-42.2	PASS
Band1 7	5MHz	QPSK	23825	1RB#0	Range5:5000~12000 MHz	-52.88	PASS
Band1 7	5MHz	QPSK	23825	1RB#0	Range6:12000~18000	-40.58	PASS

7					MHz		
Band1 7	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15M Hz	-50.87	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-54.45	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-50.29	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range4:1000~5000M Hz	-39.66	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range5:5000~12000 MHz	-53.11	PASS
Band1 7	5MHz	16QAM	23755	1RB#0	Range6:12000~18000 MHz	-40.32	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15M Hz	-50.81	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-53.64	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-50.01	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range4:1000~5000M Hz	-42.4	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range5:5000~12000 MHz	-53	PASS
Band1 7	5MHz	16QAM	23790	1RB#0	Range6:12000~18000 MHz	-40.35	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15M Hz	-49.41	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-54.72	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-50.07	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range4:1000~5000M Hz	-42.21	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range5:5000~12000 MHz	-53.07	PASS
Band1 7	5MHz	16QAM	23825	1RB#0	Range6:12000~18000 MHz	-40.52	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15M Hz	-50.26	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-55.41	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-50.29	PASS

Band1 7	10MHz	QPSK	23780	1RB#0	Range4:1000~5000M Hz	-39.54	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range5:5000~12000 MHz	-53.16	PASS
Band1 7	10MHz	QPSK	23780	1RB#0	Range6:12000~18000 MHz	-40.42	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15M Hz	-50.15	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-54.07	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-50.45	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range4:1000~5000M Hz	-40.16	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range5:5000~12000 MHz	-53.24	PASS
Band1 7	10MHz	QPSK	23790	1RB#0	Range6:12000~18000 MHz	-40.64	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15M Hz	-50.13	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-53.85	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-50.71	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range4:1000~5000M Hz	-41.87	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range5:5000~12000 MHz	-53.03	PASS
Band1 7	10MHz	QPSK	23800	1RB#0	Range6:12000~18000 MHz	-40.43	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15M Hz	-49.41	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-53.74	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-50.47	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range4:1000~5000M Hz	-40.58	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range5:5000~12000 MHz	-53.08	PASS
Band1 7	10MHz	16QAM	23780	1RB#0	Range6:12000~18000 MHz	-40.4	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15M Hz	-49.62	PASS

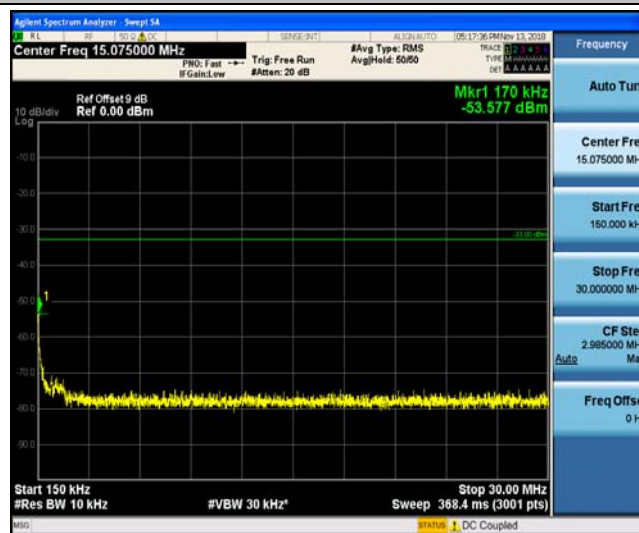
Band1 7	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-53.6	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-50.15	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range4:1000~5000M Hz	-40.56	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range5:5000~12000 MHz	-53.28	PASS
Band1 7	10MHz	16QAM	23790	1RB#0	Range6:12000~18000 MHz	-40.52	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15M Hz	-50.58	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-54.16	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-49.83	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range4:1000~5000M Hz	-42.32	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range5:5000~12000 MHz	-53.19	PASS
Band1 7	10MHz	16QAM	23800	1RB#0	Range6:12000~18000 MHz	-40.29	PASS

Test Graphs

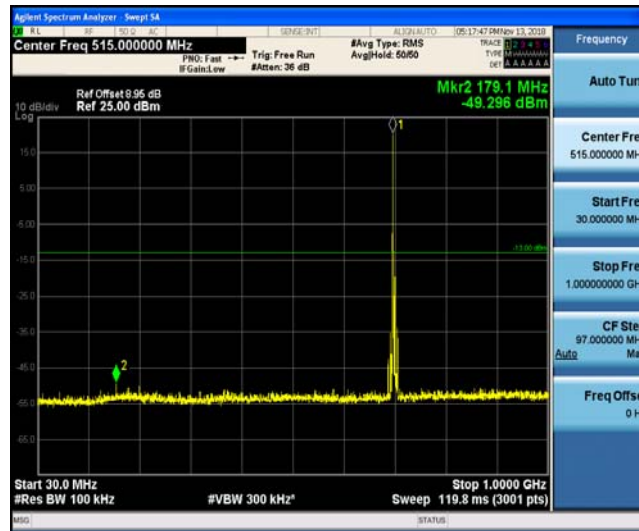
Band17_5MHz_QPSK_23755_1RB#0



Band17_5MHz_QPSK_23755_1RB#0



Band17_5MHz_QPSK_23755_1RB#0



Band17_5MHz_QPSK_23755_1RB#0



Band17_5MHz_QPSK_23755_1RB#0



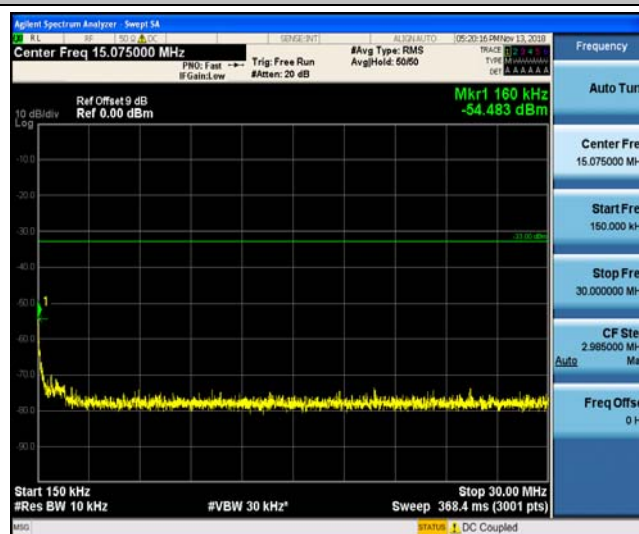
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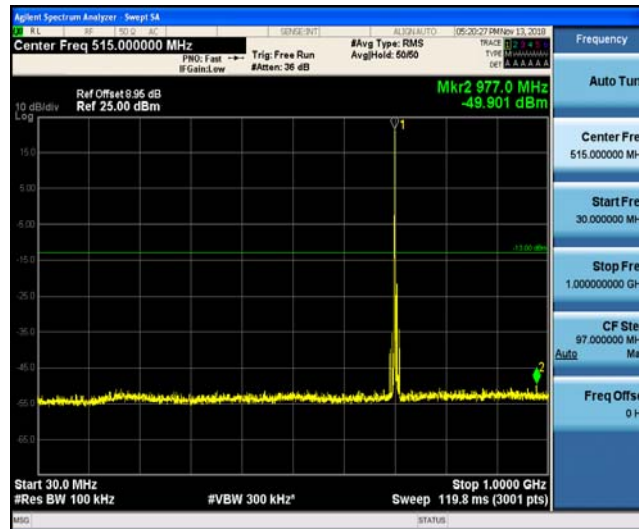
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Band17_5MHz_QPSK_23790_1RB#0



Band17_5MHz_QPSK_23790_1RB#0



Band17_5MHz_QPSK_23790_1RB#0



Band17_5MHz_QPSK_23790_1RB#0



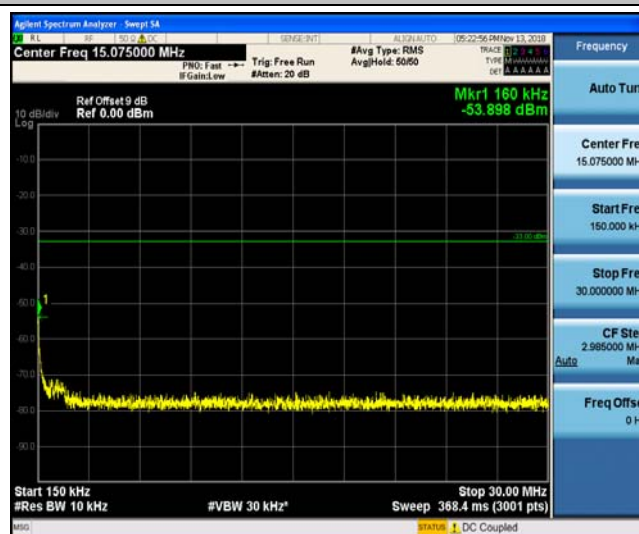
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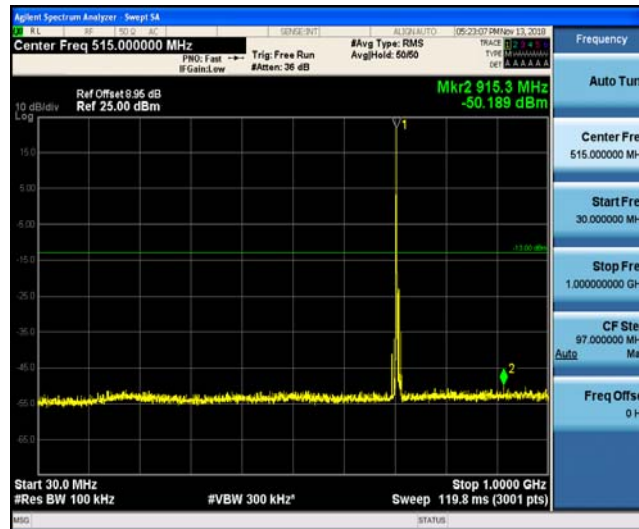
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Band17_5MHz_QPSK_23825_1RB#0



Band17_5MHz_QPSK_23825_1RB#0



Band17_5MHz_QPSK_23825_1RB#0



Band17_5MHz_QPSK_23825_1RB#0



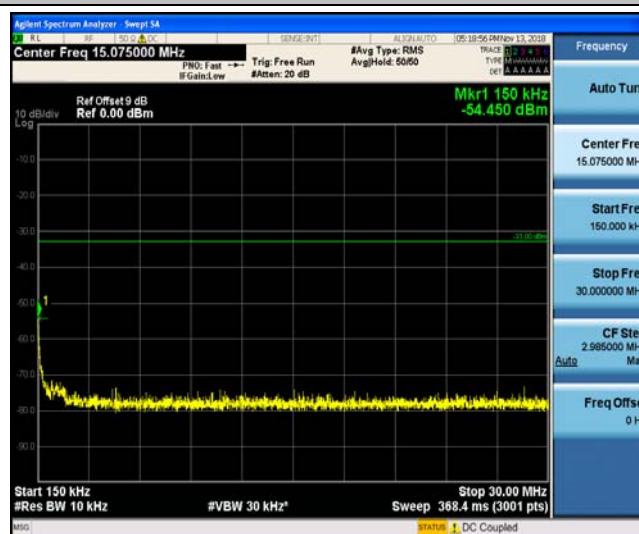
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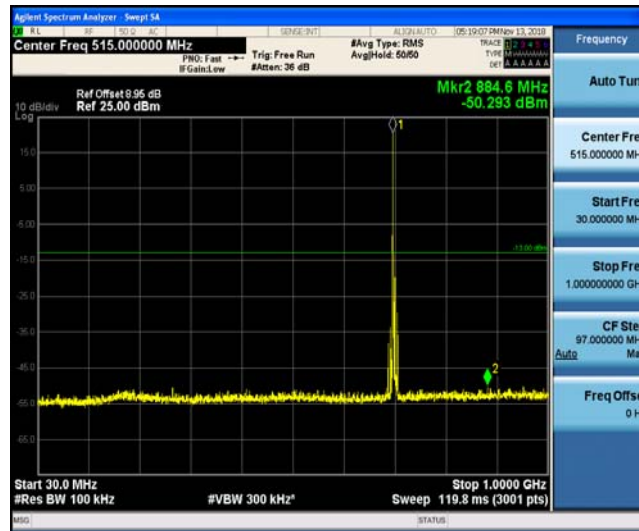
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Band17_5MHz_16QAM_23755_1RB#0



Band17_5MHz_16QAM_23755_1RB#0



Band17_5MHz_16QAM_23755_1RB#0



Band17_5MHz_16QAM_23755_1RB#0



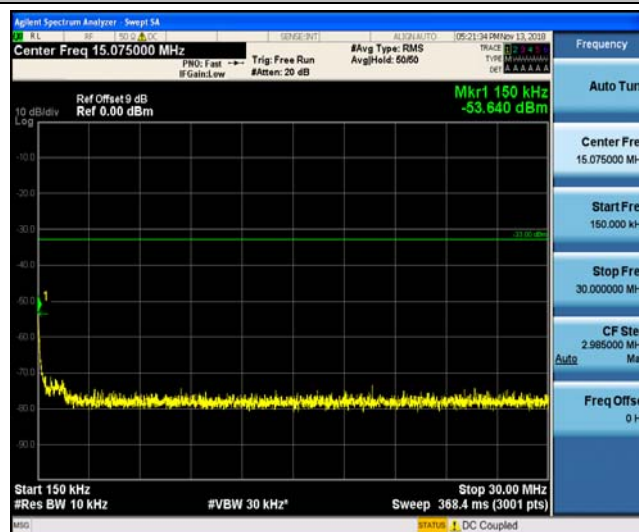
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Band17_5MHz_16QAM_23790_1RB#0



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Band17_5MHz_16QAM_23790_1RB#0



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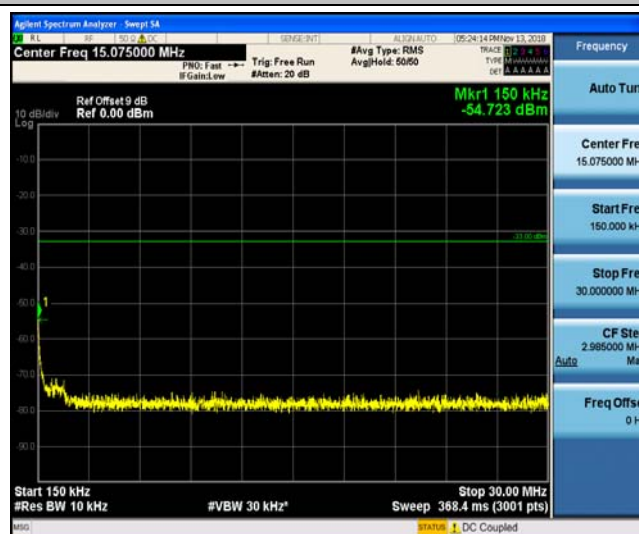
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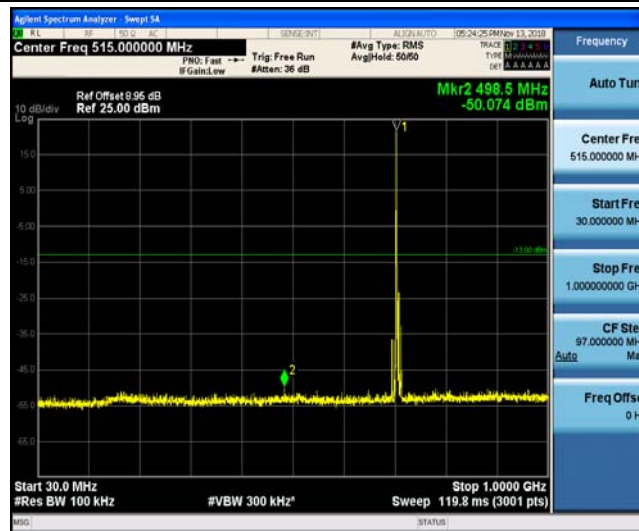
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Band17_5MHz_16QAM_23825_1RB#0



Band17_5MHz_16QAM_23825_1RB#0



Band17_5MHz_16QAM_23825_1RB#0



Band17_5MHz_16QAM_23825_1RB#0



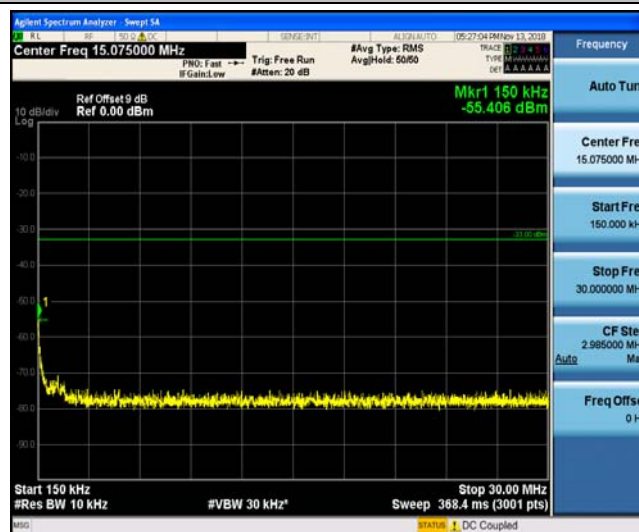
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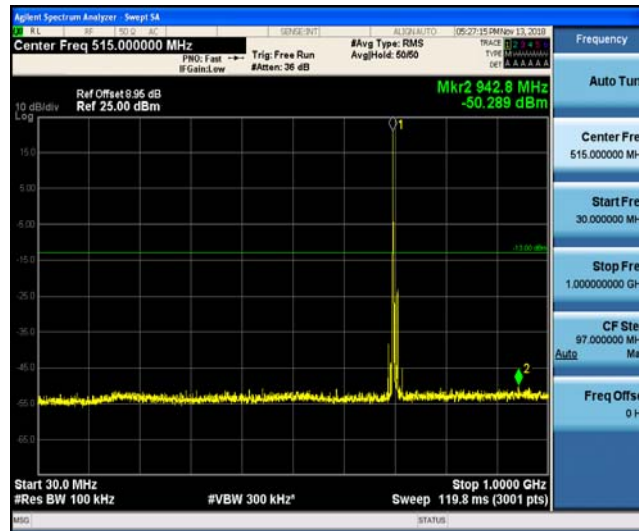
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Band17_10MHz_QPSK_23780_1RB#0



Band17_10MHz_QPSK_23780_1RB#0



Band17_10MHz_QPSK_23780_1RB#0



Band17_10MHz_QPSK_23780_1RB#0



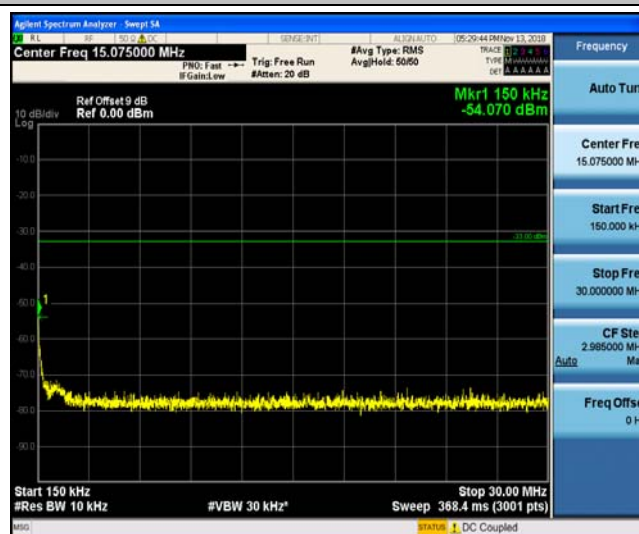
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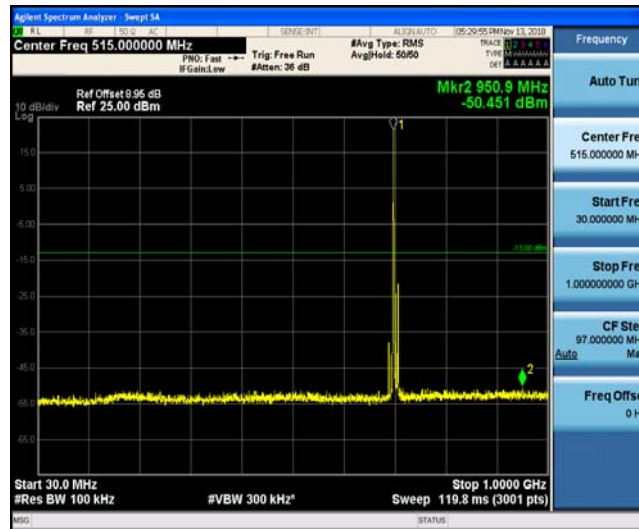
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Band17_10MHz_QPSK_23790_1RB#0



Band17_10MHz_QPSK_23790_1RB#0



Band17_10MHz_QPSK_23790_1RB#0



Band17_10MHz_QPSK_23790_1RB#0



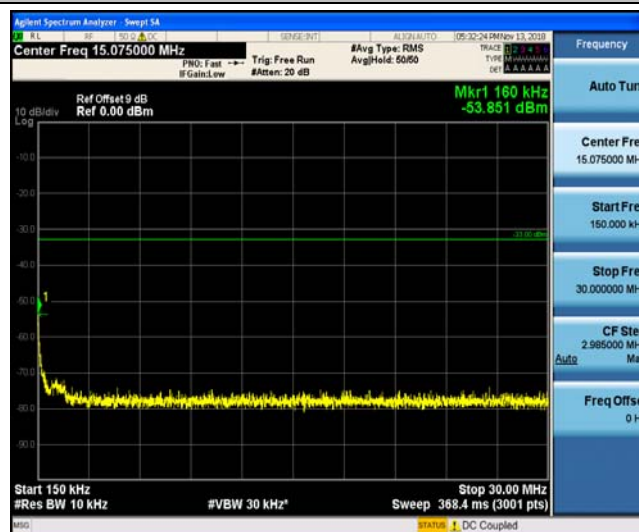
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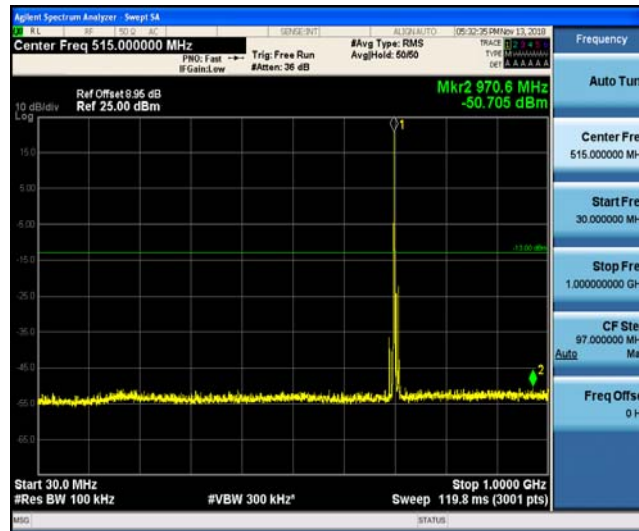
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Band17_10MHz_QPSK_23800_1RB#0



Band17_10MHz_QPSK_23800_1RB#0



Band17_10MHz_QPSK_23800_1RB#0



Band17_10MHz_QPSK_23800_1RB#0



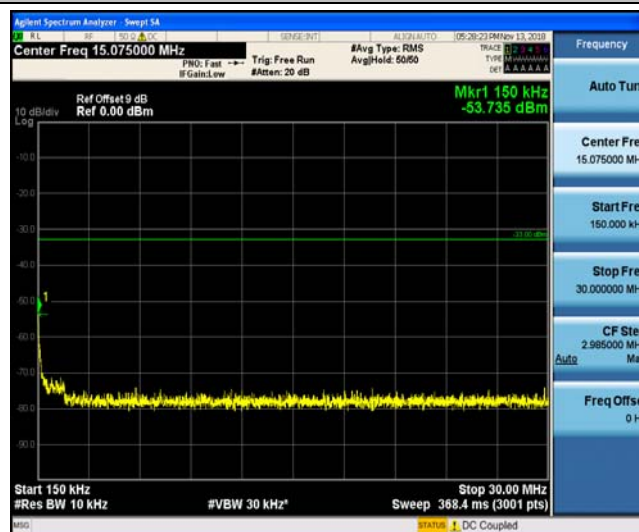
Band17_10MHz_QPSK_23800_1RB#0



Band17_10MHz_16QAM_23780_1RB#0



Band17_10MHz_16QAM_23780_1RB#0



Band17_10MHz_16QAM_23780_1RB#0



Band17_10MHz_16QAM_23780_1RB#0



Band17_10MHz_16QAM_23780_1RB#0



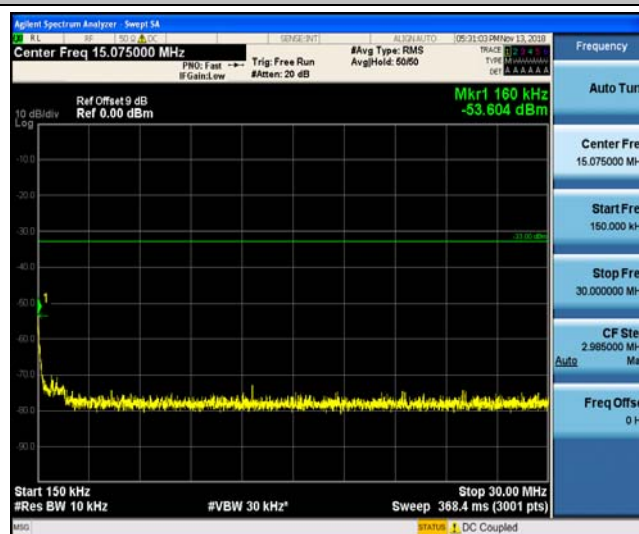
Band17_10MHz_16QAM_23780_1RB#0



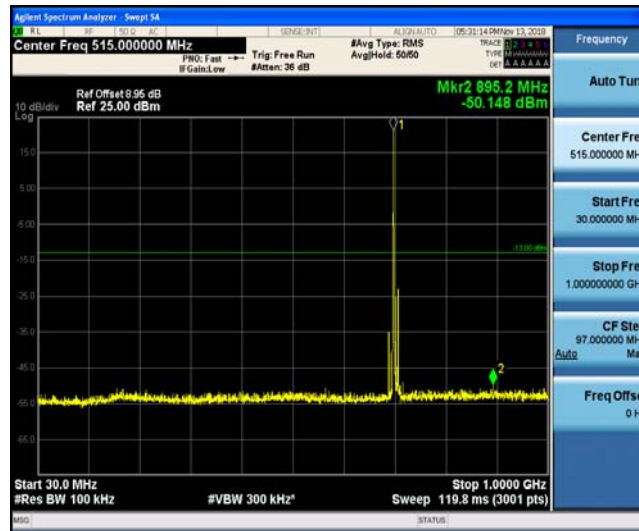
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Band17_10MHz_16QAM_23790_1RB#0



Band17_10MHz_16QAM_23790_1RB#0



Band17_10MHz_16QAM_23790_1RB#0



Band17_10MHz_16QAM_23790_1RB#0



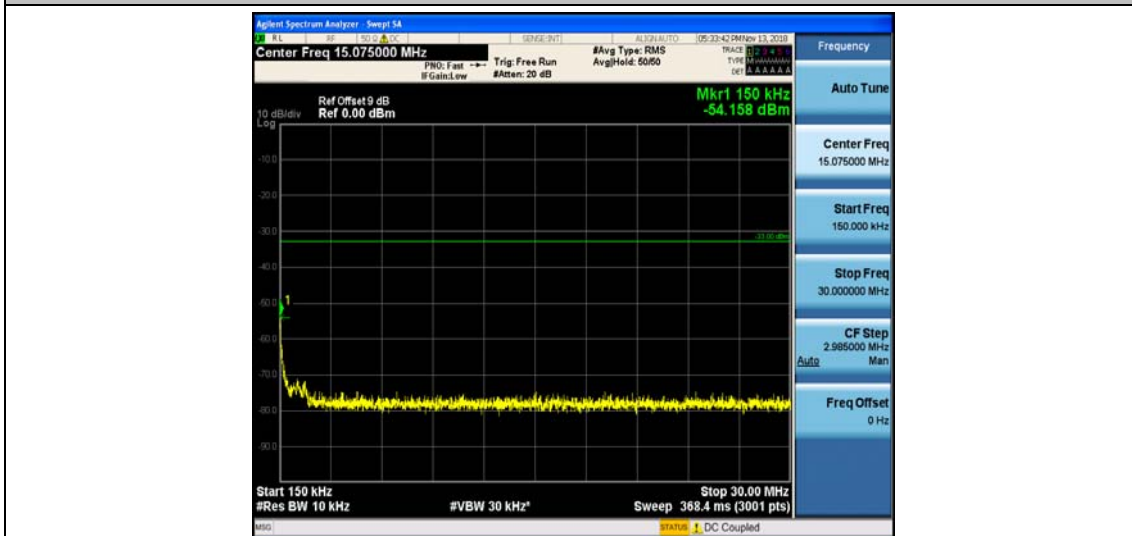
Band17_10MHz_16QAM_23790_1RB#0



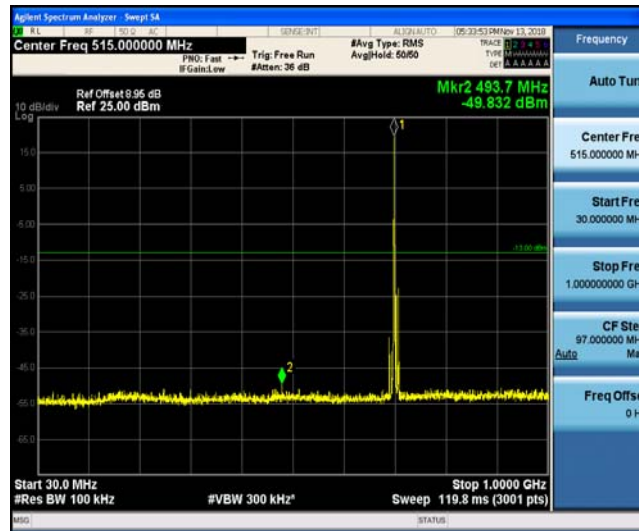
Band17_10MHz_16QAM_23800_1RB#0



Band17_10MHz_16QAM_23800_1RB#0



Band17_10MHz_16QAM_23800_1RB#0



Band17_10MHz_16QAM_23800_1RB#0



Band17_10MHz_16QAM_23800_1RB#0



Band17_10MHz_16QAM_23800_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	0.58	0.000821	± 2.5	PASS
		VN	TN	-0.96	-0.001359	± 2.5	PASS
		VH	TN	2.69	0.003808	± 2.5	PASS
	MCH	VL	TN	1.31	0.001845	± 2.5	PASS
		VN	TN	2.25	0.003169	± 2.5	PASS
		VH	TN	-1.81	-0.002549	± 2.5	PASS
	HCH	VL	TN	-0.29	-0.000406	± 2.5	PASS
		VN	TN	2.96	0.004149	± 2.5	PASS
		VH	TN	-1.2	-0.001682	± 2.5	PASS
16QAM	LCH	VL	TN	1.5	0.002123	± 2.5	PASS
		VN	TN	4.36	0.006171	± 2.5	PASS
		VH	TN	2.93	0.004147	± 2.5	PASS
	MCH	VL	TN	-1.09	-0.001535	± 2.5	PASS
		VN	TN	1.27	0.001789	± 2.5	PASS
		VH	TN	0.56	0.000789	± 2.5	PASS
	HCH	VL	TN	4.24	0.005943	± 2.5	PASS
		VN	TN	3.86	0.005410	± 2.5	PASS
		VH	TN	0.11	0.000154	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.94	-0.001331	± 2.5	PASS
		VN	-20	1.76	0.002491	± 2.5	PASS
		VN	-10	-0.12	-0.000170	± 2.5	PASS
		VN	0	2.79	0.003949	± 2.5	PASS
		VN	10	2.12	0.003001	± 2.5	PASS
		VN	20	1.44	0.002038	± 2.5	PASS
		VN	30	3.05	0.004317	± 2.5	PASS
		VN	40	-1.31	-0.001854	± 2.5	PASS
		VN	50	3.13	0.004430	± 2.5	PASS
	MCH	VN	-30	4.61	0.006493	± 2.5	PASS
		VN	-20	0.72	0.001014	± 2.5	PASS

		VN	-10	4.78	0.006732	± 2.5	PASS
		VN	0	4.8	0.006761	± 2.5	PASS
		VN	10	2.29	0.003225	± 2.5	PASS
		VN	20	0.33	0.000465	± 2.5	PASS
		VN	30	-0.62	-0.000873	± 2.5	PASS
		VN	40	3.66	0.005155	± 2.5	PASS
		VN	50	3.86	0.005437	± 2.5	PASS
	HCH	VN	-30	1.1	0.001542	± 2.5	PASS
		VN	-20	-1.33	-0.001864	± 2.5	PASS
		VN	-10	4.78	0.006699	± 2.5	PASS
		VN	0	4.68	0.006559	± 2.5	PASS
		VN	10	4.96	0.006952	± 2.5	PASS
		VN	20	0.54	0.000757	± 2.5	PASS
		VN	30	1.9	0.002663	± 2.5	PASS
		VN	40	3.01	0.004219	± 2.5	PASS
		VN	50	1.22	0.001710	± 2.5	PASS
16QAM	LCH	VN	-30	1.4	0.001982	± 2.5	PASS
		VN	-20	2.89	0.004091	± 2.5	PASS
		VN	-10	3.18	0.004501	± 2.5	PASS
		VN	0	1.82	0.002576	± 2.5	PASS
		VN	10	2.44	0.003454	± 2.5	PASS
		VN	20	-0.36	-0.000510	± 2.5	PASS
		VN	30	-1.75	-0.002477	± 2.5	PASS
		VN	40	-1.94	-0.002746	± 2.5	PASS
		VN	50	1.34	0.001897	± 2.5	PASS
	MCH	VN	-30	4.14	0.005831	± 2.5	PASS
		VN	-20	1.52	0.002141	± 2.5	PASS
		VN	-10	-0.26	-0.000366	± 2.5	PASS
		VN	0	1.75	0.002465	± 2.5	PASS
		VN	10	-1.62	-0.002282	± 2.5	PASS
		VN	20	-0.53	-0.000746	± 2.5	PASS
		VN	30	4.74	0.006676	± 2.5	PASS
		VN	40	2.21	0.003113	± 2.5	PASS
		VN	50	0.09	0.000127	± 2.5	PASS
	HCH	VN	-30	4.05	0.005676	± 2.5	PASS
		VN	-20	0.06	0.000084	± 2.5	PASS
		VN	-10	3.96	0.005550	± 2.5	PASS
		VN	0	3.22	0.004513	± 2.5	PASS
		VN	10	1.73	0.002425	± 2.5	PASS
		VN	20	1.87	0.002621	± 2.5	PASS
		VN	30	3.92	0.005494	± 2.5	PASS

		VN	40	-0.38	-0.000533	± 2.5	PASS
		VN	50	2.06	0.002887	± 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	LCH	VL	TN	-0.13	-0.000183	± 2.5	PASS
		VN	TN	1.29	0.001819	± 2.5	PASS
		VH	TN	-1.23	-0.001735	± 2.5	PASS
	MCH	VL	TN	-0.58	-0.000817	± 2.5	PASS
		VN	TN	0.65	0.000915	± 2.5	PASS
		VH	TN	2.12	0.002986	± 2.5	PASS
	HCH	VL	TN	-1.56	-0.002194	± 2.5	PASS
		VN	TN	3.34	0.004698	± 2.5	PASS
		VH	TN	3.67	0.005162	± 2.5	PASS
16QAM	LCH	VL	TN	2.39	0.003371	± 2.5	PASS
		VN	TN	5	0.007052	± 2.5	PASS
		VH	TN	4.11	0.005797	± 2.5	PASS
	MCH	VL	TN	4.65	0.006549	± 2.5	PASS
		VN	TN	0.2	0.000282	± 2.5	PASS
		VH	TN	-0.56	-0.000789	± 2.5	PASS
	HCH	VL	TN	3.07	0.004318	± 2.5	PASS
		VN	TN	4.3	0.006048	± 2.5	PASS
		VH	TN	2.51	0.003530	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.58	-0.002228	± 2.5	PASS
		VN	-20	0.18	0.000254	± 2.5	PASS
		VN	-10	4.16	0.005867	± 2.5	PASS
		VN	0	-1.88	-0.002652	± 2.5	PASS
		VN	10	-0.76	-0.001072	± 2.5	PASS
		VN	20	-1.62	-0.002285	± 2.5	PASS
		VN	30	2.47	0.003484	± 2.5	PASS
		VN	40	2.11	0.002976	± 2.5	PASS
		VN	50	0.24	0.000339	± 2.5	PASS
	MCH	VN	-30	3.51	0.004944	± 2.5	PASS
		VN	-20	3.06	0.004310	± 2.5	PASS
		VN	-10	2.15	0.003028	± 2.5	PASS

		VN	0	4.43	0.006239	± 2.5	PASS
		VN	10	4.88	0.006873	± 2.5	PASS
		VN	20	4.2	0.005915	± 2.5	PASS
		VN	30	2.2	0.003099	± 2.5	PASS
		VN	40	1.95	0.002746	± 2.5	PASS
		VN	50	-1.82	-0.002563	± 2.5	PASS
	HCH	VN	-30	3.72	0.005232	± 2.5	PASS
		VN	-20	2.39	0.003361	± 2.5	PASS
		VN	-10	-0.95	-0.001336	± 2.5	PASS
		VN	0	3.65	0.005134	± 2.5	PASS
		VN	10	1.1	0.001547	± 2.5	PASS
		VN	20	-1.38	-0.001941	± 2.5	PASS
		VN	30	-0.01	-0.000014	± 2.5	PASS
		VN	40	0.65	0.000914	± 2.5	PASS
		VN	50	2.59	0.003643	± 2.5	PASS
QPSK	LCH	VN	-30	4.98	0.007024	± 2.5	PASS
		VN	-20	0.18	0.000254	± 2.5	PASS
		VN	-10	-1.29	-0.001819	± 2.5	PASS
		VN	0	0.75	0.001058	± 2.5	PASS
		VN	10	2.63	0.003709	± 2.5	PASS
		VN	20	2.63	0.003709	± 2.5	PASS
		VN	30	2.36	0.003329	± 2.5	PASS
		VN	40	2.03	0.002863	± 2.5	PASS
		VN	50	4.12	0.005811	± 2.5	PASS
	MCH	VN	-30	-0.38	-0.000535	± 2.5	PASS
		VN	-20	1.12	0.001577	± 2.5	PASS
		VN	-10	3.99	0.005620	± 2.5	PASS
		VN	0	3.71	0.005225	± 2.5	PASS
		VN	10	1.35	0.001901	± 2.5	PASS
		VN	20	1.07	0.001507	± 2.5	PASS
		VN	30	0.05	0.000070	± 2.5	PASS
		VN	40	-0.98	-0.001380	± 2.5	PASS
		VN	50	4.35	0.006127	± 2.5	PASS
	HCH	VN	-30	4.15	0.005837	± 2.5	PASS
		VN	-20	0.98	0.001378	± 2.5	PASS
		VN	-10	3.28	0.004613	± 2.5	PASS
		VN	0	4.35	0.006118	± 2.5	PASS
		VN	10	3.87	0.005443	± 2.5	PASS
		VN	20	1.66	0.002335	± 2.5	PASS
		VN	30	0.59	0.000830	± 2.5	PASS
		VN	40	0	0.000000	± 2.5	PASS

		VN	50	1.34	0.001885	± 2.5	PASS
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