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TÜVRheinland®

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		VN	-10	3.31	0.001887	± 2.5	PASS
		VN	0	2.2	0.001254	± 2.5	PASS
		VN	10	-0.2	-0.000114	± 2.5	PASS
		VN	20	-0.74	-0.000422	± 2.5	PASS
		VN	30	2.21	0.001260	± 2.5	PASS
		VN	40	-1.62	-0.000923	± 2.5	PASS
		VN	50	3.16	0.001801	± 2.5	PASS
		VN	-30	0.42	0.000246	± 2.5	PASS
		VN	-20	0.71	0.000415	± 2.5	PASS
		VN	-10	-0.64	-0.000374	± 2.5	PASS
		VN	0	2.79	0.001631	± 2.5	PASS
	LCH	VN	10	3.51	0.002052	± 2.5	PASS
		VN	20	2.14	0.001251	± 2.5	PASS
		VN	30	-0.27	-0.000158	± 2.5	PASS
		VN	40	4.75	0.002777	± 2.5	PASS
		VN	50	2.49	0.001456	± 2.5	PASS
		VN	-30	-1.12	-0.000638	± 2.5	PASS
		VN	-20	4.26	0.002428	± 2.5	PASS
		VN	-10	2.31	0.001317	± 2.5	PASS
		VN	0	-1.48	-0.000844	± 2.5	PASS
16QAM	MCH	VN	10	2.58	0.001471	± 2.5	PASS
		VN	20	-0.1	-0.000057	± 2.5	PASS
		VN	30	-0.14	-0.000080	± 2.5	PASS
		VN	40	1.19	0.000678	± 2.5	PASS
		VN	50	-0.83	-0.000473	± 2.5	PASS
		VN	-30	3.12	0.001778	± 2.5	PASS
		VN	-20	0.74	0.000422	± 2.5	PASS
		VN	-10	-1.15	-0.000656	± 2.5	PASS
		VN	0	3.24	0.001847	± 2.5	PASS
	HCH	VN	10	4.57	0.002605	± 2.5	PASS
		VN	20	4.26	0.002428	± 2.5	PASS
		VN	30	4.06	0.002314	± 2.5	PASS
		VN	40	3.94	0.002246	± 2.5	PASS
		VN	50	0.78	0.000445	± 2.5	PASS

Channel Bar	ndwidth: 3 I	MHz					
Voltage							
Modulation	Channe	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation	Limit	Verdict
	<u> </u>		. ,	. ,	(ppm)	(ppm)	DAGG
		VL	TN	-0.01	-0.000006	± 2.5	PASS
	LCH	VN	TN	3.51	0.002051	± 2.5	PASS
		VH	TN	-0.14	-0.000082	± 2.5	PASS
		VL	TN	1.76	0.001016	± 2.5	PASS
QPSK	MCH	VN	TN	2.85	0.001645	± 2.5	PASS
		VH	TN	2.81	0.001622	± 2.5	PASS
		VL	TN	1.27	0.000724	± 2.5	PASS
	HCH	VN	TN	-0.1	-0.000057	± 2.5	PASS
		VH	TN	-1	-0.000570	± 2.5	PASS
		VL	TN	4.77	0.002787	± 2.5	PASS
	LCH	VN	TN	2.44	0.001426	± 2.5	PASS
		VH	TN	4.12	0.002407	± 2.5	PASS
16QAM		VL	TN	0.72	0.000416	± 2.5	PASS
IOQAW	MCH MCH	VN	TN	-0.83	-0.000479	± 2.5	PASS
		VH	TN	3.79	0.002188	± 2.5	PASS
	НСН	VL	TN	3.75	0.002139	± 2.5	PASS
	ПОП	VN	TN	-0.23	-0.000131	± 2.5	PASS

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Temperature		VH	TN	1.97	0.001123	± 2.5	PASS
•	Channe	Voltage	Temperature	Deviation	Deviation	Limit	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Modulation		[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	Verdict
		VN	-30	-0.99	-0.000578	± 2.5	PASS
		VN	-20	4.11	0.002401	± 2.5	PASS
		VN	-10	3.39	0.001981	± 2.5	PASS
		VN	0	2.97	0.001735	± 2.5	PASS
	LCH	VN	10	0.25	0.000146	± 2.5	PASS
		VN	20	0.75	0.000438	± 2.5	PASS
		VN	30	1.86	0.001087	± 2.5	PASS
		VN	40	0.73	0.000427	± 2.5	PASS
		VN	50	2.16	0.001262	± 2.5	PASS
		VN	-30	3.17	0.001830	± 2.5	PASS
		VN	-20	-0.1	-0.000058	± 2.5	PASS
		VN	-10	-0.84	-0.000485	± 2.5	PASS
		VN	0	1.69	0.000975	± 2.5	PASS
QPSK	MCH	VN	10	-0.22	-0.000127	± 2.5	PASS
	_	VN	20	-1.39	-0.000802	± 2.5	PASS
		VN	30	-1.9	-0.001097	± 2.5	PASS
		VN	40	0.34	0.000196	± 2.5	PASS
		VN	50	4.87	0.002811	± 2.5	PASS
		VN	-30	4.29	0.002447	± 2.5	PASS
		VN	-20	1.46	0.000833	± 2.5	PASS
		VN	-10	0.18	0.000103	± 2.5	PASS
	НСН	VN	0	-0.61	-0.000348	± 2.5	PASS
		VN	10	2.92	0.001665	± 2.5	PASS
		VN	20	4.06	0.002315	± 2.5	PASS
		VN	30	0.01	0.000006	± 2.5	PASS
		VN	40	0.36	0.000205	± 2.5	PASS
		VN	50	2.07	0.001180	± 2.5	PASS
		VN	-30	3.43	0.001980	± 2.5	PASS
		VN	-20	1.54	0.000889	± 2.5	PASS
		VN	-10	4.85	0.002799	± 2.5	PASS
		VN	0	1.72	0.000993	± 2.5	PASS
	LCH	VN	10	0.06	0.000035	± 2.5	PASS
		VN	20	-1.73	-0.000999	± 2.5	PASS
		VN	30	4.48	0.002586	± 2.5	PASS
		VN	40	-0.14	-0.000081	± 2.5	PASS
		VN	50	1.35	0.000779	± 2.5	PASS
		VN	-30	-0.72	-0.000411	± 2.5	PASS
		VN	-20	3.79	0.002161	± 2.5	PASS
		VN	-10	3.06	0.001745	± 2.5	PASS
16QAM		VN	0	3.51	0.002002	± 2.5	PASS
	MCH	VN	10	1.96	0.001118	± 2.5	PASS
		VN	20	4.3	0.002452	± 2.5	PASS
		VN	30	1.44	0.000821	± 2.5	PASS
_		VN	40	3.87	0.002207	± 2.5	PASS
		VN	50	2.45	0.001397	± 2.5	PASS
		VN	-30	-1.17	-0.000667	± 2.5	PASS
		VN	-20	0.5	0.000285	± 2.5	PASS
		VN	-10	2.52	0.001437	± 2.5	PASS
	HCH	VN	0	3.97	0.002264	± 2.5	PASS
		VN	10	4.13	0.002355	± 2.5	PASS
		VN	20	1.91	0.001089	± 2.5	PASS
		VN	30	4.97	0.002834	± 2.5	PASS

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VN	40	4.85	0.002766	± 2.5	PASS
VN	50	4.03	0.002298	± 2.5	PASS

Voltage	Channe	Voltage	Temperature	Deviation	Deviation	Limit	
Modulation	Channe	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	Verdict
	1	VL	TN	4.88	0.002850	± 2.5	PASS
	LCH	VN	TN	0.88	0.002556	± 2.5	PASS
	LOIT	VH	TN	-0.2	-0.000117	± 2.5	PASS
		VL	TN	-0.54	-0.000117	± 2.5	PASS
QPSK	MCH	VN	TN	1.86	0.001074	± 2.5	PASS
QI OIX	IVIOIT	VH	TN	3.23	0.001864	± 2.5	PASS
		VL	TN	3.68	0.002100	± 2.5	PASS
	НСН	VN	TN	4.29	0.002448	± 2.5	PASS
ПСП	11011	VH	TN	1.06	0.000605	± 2.5	PASS
		VL	TN	1.41	0.000823	± 2.5	PASS
	LCH	VN	TN	-0.55	-0.000321	± 2.5	PASS
	LOIT	VH	TN	1.6	0.000934	± 2.5	PASS
		VL	TN	-0.16	-0.000092	± 2.5	PASS
16QAM	MCH	VN	TN	4.37	0.002522	± 2.5	PASS
1 0 Q/ 11VI	101011	VH	TN	4.51	0.002522	± 2.5	PASS
		VL	TN	-0.29	-0.000165	± 2.5	PASS
	НСН	VN	TN	1.94	0.001107	± 2.5	PASS
	11011	VH	TN	3.6	0.002054	± 2.5	PASS
Temperature	خ -	, v	111	1 0.0	0.002001	1 2 2.0	17.00
	Channe	Voltage	Temperature	Deviation	Deviation	Limit	l
Modulation		[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	Verdic
		VN	-30	3.22	0.001880	± 2.5	PASS
		VN	-20	1.66	0.000969	± 2.5	PASS
		VN	-10	1.33	0.000777	± 2.5	PASS
	LCH	VN	0	-1.05	-0.000613	± 2.5	PASS
		VN	10	4.71	0.002750	± 2.5	PASS
		VN	20	-1.31	-0.000765	± 2.5	PASS
		VN	30	-0.87	-0.000508	± 2.5	PASS
		VN	40	-1.19	-0.000695	± 2.5	PASS
		VN	50	-0.91	-0.000531	± 2.5	PASS
		VN	-30	0.86	0.000496	± 2.5	PASS
		VN	-20	0	0.000000	± 2.5	PASS
		VN	-10	0.79	0.000456	± 2.5	PASS
		VN	0	0.1	0.000058	± 2.5	PASS
QPSK	MCH	VN	10	2.83	0.001633	± 2.5	PASS
. =		VN	20	1.1	0.000635	± 2.5	PASS
		VN	30	-0.73	-0.000421	± 2.5	PASS
		VN	40	3.18	0.001835	± 2.5	PASS
		VN	50	-0.33	-0.000190	± 2.5	PASS
		VN	-30	2.67	0.001524	± 2.5	PASS
		VN	-20	-1.35	-0.000708	± 2.5	PASS
		VN	-10	1.03	0.000540	± 2.5	PASS
		VN	0	4.62	0.002422	± 2.5	PASS
	HCH	VN	10	-1.1	-0.000577	± 2.5	PASS
	-	VN	20	4.51	0.002364	± 2.5	PASS
		VN	30	-1.46	-0.000765	± 2.5	PASS
		VN	40	4.51	0.002364	± 2.5	PASS
		VN	50	1.46	0.000765	± 2.5	PASS
16QAM	LCH	VN	-30	0.7	0.000404	± 2.5	PASS

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1	1	1	1	T		
	VN	-20	4.34	0.002505	± 2.5	PASS
	VN	-10	3.71	0.002141	± 2.5	PASS
	VN	0	4.11	0.002372	± 2.5	PASS
	VN	10	3.14	0.001812	± 2.5	PASS
	VN	20	4.72	0.002724	± 2.5	PASS
	VN	30	2.36	0.001362	± 2.5	PASS
	VN	40	1.12	0.000646	± 2.5	PASS
	VN	50	0.32	0.000185	± 2.5	PASS
	VN	-30	-1.31	-0.000748	± 2.5	PASS
	VN	-20	4.06	0.002317	± 2.5	PASS
	VN	-10	3.67	0.002094	± 2.5	PASS
	VN	0	-0.15	-0.000086	± 2.5	PASS
MCH	VN	10	0.5	0.000285	± 2.5	PASS
	VN	20	2.07	0.001181	± 2.5	PASS
	VN	30	-1.78	-0.001016	± 2.5	PASS
	VN	40	3.8	0.002168	± 2.5	PASS
	VN	50	4.37	0.002494	± 2.5	PASS
	VN	-30	4.67	0.002448	± 2.5	PASS
	VN	-20	-1.38	-0.000723	± 2.5	PASS
	VN	-10	1.16	0.000608	± 2.5	PASS
	VN	0	0.96	0.000503	± 2.5	PASS
HCH	VN	10	-1.02	-0.000535	± 2.5	PASS
	VN	20	4.51	0.002364	± 2.5	PASS
	VN	30	2.03	0.001064	± 2.5	PASS
	VN	40	-1.06	-0.000556	± 2.5	PASS
	VN	50	-0.29	-0.000152	± 2.5	PASS

Channel Bar	ndwidth: 10	MHz					
Voltage							
Modulation	Channe I	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		VL	TN	1.73	0.001009	± 2.5	PASS
	LCH	VN	TN	0.22	0.000128	± 2.5	PASS
		VH	TN	-0.72	-0.000420	± 2.5	PASS
		VL	TN	4.54	0.002620	± 2.5	PASS
QPSK	MCH	VN	TN	4.39	0.002534	± 2.5	PASS
		VH	TN	-1.76	-0.001016	± 2.5	PASS
		VL	TN	0.52	0.000297	± 2.5	PASS
	HCH	VN	TN	3.65	0.002086	± 2.5	PASS
		VH	TN	0.33	0.000189	± 2.5	PASS
		VL	TN	1.5	0.000875	± 2.5	PASS
	LCH	VN	TN	4.09	0.002385	± 2.5	PASS
		VH	TN	1.53	0.000892	± 2.5	PASS
		VL	TN	-1.12	-0.000646	± 2.5	PASS
16QAM	MCH	VN	TN	4.27	0.002465	± 2.5	PASS
		VH	TN	0.82	0.000473	± 2.5	PASS
		VL	TN	1.78	0.001017	± 2.5	PASS
	HCH	VN	TN	1.5	0.000857	± 2.5	PASS
		VH	TN	-1.88	-0.001074	± 2.5	PASS
Temperature	9						
Modulation	Channe	Voltage	Temperature	Deviation	Deviation	Limit	Verdict
Modulation	I	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	
		VN	-30	-1.13	-0.000659	± 2.5	PASS
QPSK	LCH	VN	-20	-0.8	-0.000466	± 2.5	PASS
GI OIX	LOIT	VN	-10	-0.83	-0.000484	± 2.5	PASS
		VN	0	2.83	0.001650	± 2.5	PASS

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		VN	10	4.57	0.002665	± 2.5	PASS
		VN	20	0.48	0.000280	± 2.5	PASS
		VN	30	3.51	0.002047	± 2.5	PASS
		VN	40	-0.57	-0.000332	± 2.5	PASS
		VN	50	2.02	0.001178	± 2.5	PASS
		VN	-30	1.98	0.001173	± 2.5	PASS
		VN	-20	-1.47	-0.000848	± 2.5	PASS
		VN	-10	-0.4	-0.00031	± 2.5	PASS
		VN	0	-1.46	-0.000231	± 2.5	PASS
	мсн	VN	10			± 2.5	PASS
	IVICH			-0.99 2.73	-0.000571		PASS
		VN	20		0.001576	± 2.5	
		VN	30	2.1	0.001212	± 2.5	PASS
		VN	40	3.23	0.001864	± 2.5	PASS
		VN	50	4.33	0.002499	± 2.5	PASS
		VN	-30	1.61	0.000920	± 2.5	PASS
		VN	-20	-0.96	-0.000549	± 2.5	PASS
		VN	-10	-1.91	-0.001091	± 2.5	PASS
		VN	0	4.51	0.002577	± 2.5	PASS
	HCH	VN	10	4.43	0.002531	± 2.5	PASS
		VN	20	-1.8	-0.001029	± 2.5	PASS
		VN	30	3.43	0.001960	± 2.5	PASS
		VN	40	2.48	0.001417	± 2.5	PASS
		VN	50	2.28	0.001303	± 2.5	PASS
		VN	-30	1.68	0.000970	± 2.5	PASS
		VN	-20	3.15	0.001818	± 2.5	PASS
		VN	-10	-1.04	-0.000600	± 2.5	PASS
		VN	0	2.53	0.001460	± 2.5	PASS
	LCH	VN	10	3.18	0.001835	± 2.5	PASS
		VN	20	4.19	0.002418	± 2.5	PASS
		VN	30	-1.73	-0.000999	± 2.5	PASS
		VN	40	0.96	0.000554	± 2.5	PASS
		VN	50	0.7	0.000404	± 2.5	PASS
		VN	-30	4.99	0.002851	± 2.5	PASS
		VN	-20	-1.13	-0.000646	± 2.5	PASS
		VN	-10	-1.99	-0.001137	± 2.5	PASS
		VN	0	3.55	0.002029	± 2.5	PASS
16QAM	МСН	VN	10	0.72	0.002023	± 2.5	PASS
IUQAW	IVICIT	VN	20	4.42	0.002526	± 2.5	PASS
		VN	30	3.18	0.002320	± 2.5	PASS
		VN	40	1			PASS
		VN	50	-0.55	0.000571 -0.000314	± 2.5	PASS
	_					± 2.5	
		VN	-30	-0.82	-0.000469	± 2.5	PASS
		VN	-20	0.34	0.000194	± 2.5	PASS
		VN	-10	-0.21	-0.000120	± 2.5	PASS
		VN	0	0.76	0.000434	± 2.5	PASS
	HCH	VN	10	2.22	0.001269	± 2.5	PASS
		VN	20	-1.3	-0.000743	± 2.5	PASS
		VN	30	3.71	0.002120	± 2.5	PASS
		VN	40	2.07	0.001183	± 2.5	PASS
		VN	50	1.79	0.001023	± 2.5	PASS

Channel Bar	ndwidth: 15	MHz					
Voltage							
Modulation	Channe I	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.18	0.002434	± 2.5	PASS

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		VN	TN	4.05	0.002259	± 2.5	PASS
		VH	TN	-1.61	0.002358 -0.000937	± 2.5 ± 2.5	PASS
		VH	TN		0.000525		PASS
	MOLL			0.91		± 2.5	
	MCH	VN	TN	0.89	0.000514	± 2.5	PASS
		VH	TN	2.14	0.001235	± 2.5	PASS
	НСН	VL	TN	3.28	0.001877	± 2.5	PASS
	HCH	VN	TN	1.93	0.001104	± 2.5	PASS
		VH	TN	4.08	0.002335	± 2.5	PASS
		VL	TN	2.58	0.001502	± 2.5	PASS
	LCH	VN	TN	3.95	0.002300	± 2.5	PASS
		VH	TN	-0.17	-0.000099	± 2.5	PASS
		VL	TN	4.95	0.002857	± 2.5	PASS
16QAM	M MCH	VN	TN	-0.17	-0.000098	± 2.5	PASS
		VH	TN	3.19	0.001841	± 2.5	PASS
		VL	TN	-0.69	-0.000395	± 2.5	PASS
		VN	TN	0.06	0.000034	± 2.5	PASS
	1	VH	TN	-0.25	-0.000143	± 2.5	PASS
Temperature	<u> </u>	1 ***	1	0.20	0.0001.10	1 = 2.0	17.00
•	Channe	Voltage	Temperature	Deviation	Deviation	Limit	
Modulation		[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	Verdict
	1	VN	-30	-0.69	-0.000402	± 2.5	PASS
		VN	-20	4.74		± 2.5	PASS
		VN	-10	_	0.002760	_	PASS
			<u> </u>	-0.19	-0.000111	± 2.5	
		VN	0	2	0.001164	± 2.5	PASS
	LCH	VN	10	2.59	0.001508	± 2.5	PASS
		VN	20	-0.54	-0.000314	± 2.5	PASS
		VN	30	-0.05	-0.000029	± 2.5	PASS
		VN	40	-0.56	-0.000326	± 2.5	PASS
		VN	50	3.03	0.001764	± 2.5	PASS
		VN	-30	-1.44	-0.000831	± 2.5	PASS
		VN	-20	0.72	0.000416	± 2.5	PASS
		VN	-10	1.59	0.000918	± 2.5	PASS
		VN	0	3.66	0.002113	± 2.5	PASS
QPSK	MCH	VN	10	2.82	0.001628	± 2.5	PASS
		VN	20	4.25	0.002453	± 2.5	PASS
		VN	30	0.85	0.000491	± 2.5	PASS
		VN	40	-0.1	-0.000058	± 2.5	PASS
		VN	50	3.45	0.001991	± 2.5	PASS
		VN	-30	0.04	0.000023	± 2.5	PASS
		VN	-20	1.28	0.000023		PASS
		VN				± 2.5	
			-10	1.81	0.001036	± 2.5	PASS
		VN	0	0.71	0.000406	± 2.5	PASS
	HCH	VN	10	4.2	0.002403	± 2.5	PASS
		VN	20	3.13	0.001791	± 2.5	PASS
		VN	30	0.81	0.000464	± 2.5	PASS
			1 40	0.69	0.000395	± 2.5	PASS
		VN	40			_	
		VN	50	1.03	0.000589	± 2.5	PASS
		VN VN				_	PASS
		VN	50	1.03	0.000589	± 2.5	
		VN VN	50 -30	1.03 1.27	0.000589 0.000733 0.002690	± 2.5 ± 2.5 ± 2.5	PASS PASS
		VN VN VN	50 -30 -20 -10	1.03 1.27 4.66 3.17	0.000589 0.000733 0.002690 0.001830	± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS
16QAM	I CH	VN VN VN VN	50 -30 -20 -10 0	1.03 1.27 4.66 3.17 3.59	0.000589 0.000733 0.002690 0.001830 0.002072	± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS
16QAM	LCH	VN VN VN VN VN	50 -30 -20 -10 0	1.03 1.27 4.66 3.17 3.59 3.67	0.000589 0.000733 0.002690 0.001830 0.002072 0.002118	± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS
16QAM	LCH	VN VN VN VN VN VN VN VN VN	50 -30 -20 -10 0 10 20	1.03 1.27 4.66 3.17 3.59 3.67 -0.98	0.000589 0.000733 0.002690 0.001830 0.002072 0.002118 -0.000566	± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS PASS
16QAM	LCH	VN VN VN VN VN	50 -30 -20 -10 0	1.03 1.27 4.66 3.17 3.59 3.67	0.000589 0.000733 0.002690 0.001830 0.002072 0.002118	± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5 ± 2.5	PASS PASS PASS PASS

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		\ / \ I	1 00	4.00	0.000404	0.5	D400
		VN	-30	4.23	0.002421	± 2.5	PASS
		VN	-20	4.6	0.002632	± 2.5	PASS
		VN	-10	4.53	0.002592	± 2.5	PASS
		VN	0	1.42	0.000813	± 2.5	PASS
	MCH	VN	10	-0.56	-0.000320	± 2.5	PASS
		VN	20	1.77	0.001013	± 2.5	PASS
		VN	30	-0.32	-0.000183	± 2.5	PASS
		VN	40	4.02	0.002300	± 2.5	PASS
		VN	50	0.65	0.000372	± 2.5	PASS
		VN	-30	4.28	0.002449	± 2.5	PASS
		VN	-20	2.09	0.001196	± 2.5	PASS
		VN	-10	-0.12	-0.000069	± 2.5	PASS
		VN	0	-1.3	-0.000744	± 2.5	PASS
	HCH	VN	10	-0.14	-0.000080	± 2.5	PASS
		VN	20	-0.99	-0.000567	± 2.5	PASS
		VN	30	0.48	0.000275	± 2.5	PASS
		VN	40	3.94	0.002255	± 2.5	PASS
		VN	50	1.16	0.000664	± 2.5	PASS

Channel Bar	ndwidth: 20	MHz					
Voltage							
Modulation	Channe	Voltage	Temperature	Deviation	Deviation	Limit	Verdict
Modulation	I	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	verdict
		VL	TN	2.43	0.001413	± 2.5	PASS
	LCH	VN	TN	1.24	0.000721	± 2.5	PASS
		VH	TN	2.28	0.001326	± 2.5	PASS
		VL	TN	1.1	0.000635	± 2.5	PASS
QPSK	MCH	VN	TN	-1.96	-0.001131	± 2.5	PASS
НСН		VH	TN	2.53	0.001460	± 2.5	PASS
		VL	TN	0.4	0.000229	± 2.5	PASS
	VN	TN	-1.31	-0.000751	± 2.5	PASS	
		VH	TN	2.32	0.001330	± 2.5	PASS
		VL	TN	-1.96	-0.001140	± 2.5	PASS
	LCH	VN	TN	4.89	0.002843	± 2.5	PASS
		VH	TN	4.55	0.002645	± 2.5	PASS
	MCH	VL	TN	1.26	0.000727	± 2.5	PASS
16QAM		VN	TN	4.41	0.002545	± 2.5	PASS
		VH	TN	4.17	0.002407	± 2.5	PASS
		VL	TN	-1.84	-0.001054	± 2.5	PASS
	HCH	VN	TN	1.22	0.000699	± 2.5	PASS
		VH	TN	3.88	0.002223	± 2.5	PASS
Temperature	9						
Modulation	Channe	Voltage	Temperature	Deviation	Deviation	Limit	Verdic
Modulation	1	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	verdic
		VN	-30	2.35	0.001366	± 2.5	PASS
		VN	-20	4.8	0.002791	± 2.5	PASS
		VN	-10	3.83	0.002227	± 2.5	PASS
		VN	0	2.19	0.001273	± 2.5	PASS
	LCH	VN	10	-1.08	-0.000628	± 2.5	PASS
ODCK		VN	20	4.24	0.002465	± 2.5	PASS
QPSK		VN	30	1.72	0.001000	± 2.5	PASS
		VN	40	-1.25	-0.000727	± 2.5	PASS
		VN	50	1.08	0.000628	± 2.5	PASS
		VN	-30	4.91	0.002834	± 2.5	PASS
	MCH	VN	-20	1.94	0.001120	± 2.5	PASS
		VN	-10	3.73	0.002153	± 2.5	PASS

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		VN	0	4.66	0.002690	± 2.5	PASS
		VN	10	1.87	0.001079	± 2.5	PASS
		VN	20	0.6	0.000346	± 2.5	PASS
		VN	30	-1.72	-0.000993	± 2.5	PASS
		VN	40	-1.63	-0.000941	± 2.5	PASS
		VN	50	-1.99	-0.001149	± 2.5	PASS
		VN	-30	2.88	0.001650	± 2.5	PASS
		VN	-20	3.7	0.002120	± 2.5	PASS
		VN	-10	2.76	0.001582	± 2.5	PASS
		VN	0	4.97	0.002848	± 2.5	PASS
	HCH	VN	10	3.57	0.002046	± 2.5	PASS
		VN	20	0.12	0.000069	± 2.5	PASS
		VN	30	2.26	0.001295	± 2.5	PASS
		VN	40	0.02	0.000011	± 2.5	PASS
		VN	50	-0.18	-0.000103	± 2.5	PASS
		VN	-30	2.14	0.001235	± 2.5	PASS
		VN	-20	2.63	0.001518	± 2.5	PASS
		VN	-10	2.13	0.001229	± 2.5	PASS
		VN	0	4.8	0.002771	± 2.5	PASS
	LCH	VN	10	-0.7	-0.000404	± 2.5	PASS
		VN	20	3.44	0.001986	± 2.5	PASS
		VN	30	0.33	0.000190	± 2.5	PASS
		VN	40	2.66	0.001535	± 2.5	PASS
		VN	50	4.07	0.002349	± 2.5	PASS
		VN	-30	3.24	0.001857	± 2.5	PASS
		VN	-20	0.5	0.000287	± 2.5	PASS
		VN	-10	0.42	0.000241	± 2.5	PASS
		VN	0	1.97	0.001129	± 2.5	PASS
16QAM	MCH	VN	10	4.01	0.002298	± 2.5	PASS
		VN	20	3.03	0.001736	± 2.5	PASS
		VN	30	-0.23	-0.000132	± 2.5	PASS
		VN	40	0.39	0.000223	± 2.5	PASS
		VN	50	1.65	0.000946	± 2.5	PASS
		VN	-30	3.1	0.001777	± 2.5	PASS
		VN	-20	1.99	0.001140	± 2.5	PASS
		VN	-10	3.85	0.002206	± 2.5	PASS
		VN	0	4.48	0.002567	± 2.5	PASS
	HCH	VN	10	-0.46	-0.000264	± 2.5	PASS
		VN	20	0.85	0.000487	± 2.5	PASS
		VN	30	-0.75	-0.000430	± 2.5	PASS
		VN	40	-0.24	-0.000138	± 2.5	PASS
		VN	50	3.43	0.001966	± 2.5	PASS

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6. Peak-to-average Ratio (PAR)

6.1 Test Datas

Channel Ba	ndwidth: 1.4			1=	1	
Modulation	Channel		figuration	Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	(dB)	(dB)	
		1	0	5.78	<13	PASS
		1	3	5.77	<13	PASS
		1	5	5.67	<13	PASS
	LCH	3	0	5.76	<13	PASS
		3	2	5.68	<13	PASS
		3	3	5.72	<13	PASS
		6	0	5.81	<13	PASS
		1	0	6.18	<13	PASS
		1	3	6.05	<13	PASS
		1	5	6.04	<13	PASS
QPSK	MCH	3	0	6.02	<13	PASS
		3	2	6.05	<13	PASS
		3	3	5.97	<13	PASS
		6	0	6.01	<13	PASS
		1	0	5.76	<13	PASS
		1	3	5.67	<13	PASS
		1	5	5.62	<13	PASS
	HCH	3	0	5.92	<13	PASS
		3	2	5.95	<13	PASS
		3	3	5.95	<13	PASS
		6	0	5.95	<13	PASS
		1	0	6.52	<13	PASS
		1	3	6.54	<13	PASS
		1	5	6.53	<13	PASS
	LCH	3	0	6.62	<13	PASS
		3	2	6.58	<13	PASS
		3	3	6.71	<13	PASS
		6	0	6.72	<13	PASS
		1	0	6.79	<13	PASS
		1	3	6.81	<13	PASS
		1	5	6.78	<13	PASS
16QAM	MCH		0	7.01	<13	PASS
		3	2	6.91	<13	PASS
		3	3	6.91	<13	PASS
		6	0	6.91	<13	PASS
		1	0	6.8	<13	PASS
		1	3	6.74	<13	PASS
		1	5	6.77	<13	PASS
	НСН	3	0	6.95	<13	PASS
	11011	3	2	6.93	<13	PASS
		3	3	6.96	<13	PASS
		6	0	6.89	<13	PASS
	I .	10	U	0.09	\13	FASS

Channel Bar	ndwidth: 3 M	Hz				
Modulation Channel	Channal	RB Config	uration	Peak-to-Average Ratio	Limit	Verdict
	Charmer	Size	Offset	[dB]	[dB]	verdict
QPSK	LCH	1	0	5.76	<13	PASS
QFSK	LUIT	1	7	5.68	<13	PASS

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		1	14	5.82	<13	PASS
		8	0	5.79	<13	PASS
		8	4	5.82	<13	PASS
		8	7	5.8	<13	PASS
		15	0	5.75	<13	PASS
		1	0	6.06	<13	PASS
		1	7	5.82	<13	PASS
		1	14	6.2	<13	PASS
	мсн	8	0	6.1	<13	PASS
		8	4	6.03	<13	PASS
		8	7	6.09	<13	PASS
		15	0	5.89	<13	PASS
		1	0	5.73	<13	PASS
		1	7	5.69	<13	PASS
		1	14	5.68	<13	PASS
	HCH	8	0	6.14	<13	PASS
		8	4	6.12	<13	PASS
		8	7	6.02	<13	PASS
		15	0	6.13	<13	PASS
		1	0	6.83	<13	PASS
		1	7	6.53	<13	PASS
		1	14	6.66	<13	PASS
	LCH	8	0	6.41	<13	PASS
		8	4	6.35	<13	PASS
		8	7	6.26	<13	PASS
		15	0	6.59	<13	PASS
		1	0	7.07	<13	PASS
		1	7	7.03	<13	PASS
		1	14	6.94	<13	PASS
16QAM	мсн	8	0	6.62	<13	PASS
		8	4	6.75	<13	PASS
		8	7	6.6	<13	PASS
		15	0	6.93	<13	PASS
		1	0	6.76	<13	PASS
		1	7	6.6	<13	PASS
		1	14	6.65	<13	PASS
	HCH	8	0	6.51	<13	PASS
		8	4	6.66	<13	PASS
		8	7	6.67	<13	PASS
		15	0	6.75	<13	PASS

Channel Bar	ndwidth: 5 M	lHz				
Modulation	Modulation Channel	RB Configuration Size Offset		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		1				DACC
		1	0	5.45	<13	PASS
		1	12	5.43	<13	PASS
		1	24	5.36	<13	PASS
	LCH	12	0	5.76	<13	PASS
		12	6	5.76	<13	PASS
QPSK		12	13	5.72	<13	PASS
QFSK		25	0	5.83	<13	PASS
		1	0	5.65	<13	PASS
		1	12	5.62	<13	PASS
	MCH	1	24	5.69	<13	PASS
		12	0	6.03	<13	PASS
		12	6	5.96	<13	PASS

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		12	13	6.06	<13	PASS
		25	0	6.1	<13	PASS
		1	0	6	<13	PASS
		1	12	6.04	<13	PASS
		1	24	6.09	<13	PASS
	HCH	12	0	6.06	<13	PASS
		12	6	6.14	<13	PASS
		12	13	6.11	<13	PASS
		25	0	6.1	<13	PASS
		1	0	6.42	<13	PASS
		1	12	6.41	<13	PASS
		1	24	6.43	<13	PASS
	LCH	12	0	6.44	<13	PASS
		12	6	6.36	<13	PASS
		12	13	6.52	<13	PASS
		25	0	6.52	<13	PASS
		1	0	6.59	<13	PASS
		1	12	6.6	<13	PASS
		1	24	6.52	<13	PASS
16QAM	MCH	12	0	6.8	<13	PASS
		12	6	6.75	<13	PASS
		12	13	6.82	<13	PASS
		25	0	6.76	<13	PASS
		1	0	6.56	<13	PASS
		1	12	6.71	<13	PASS
		1	24	6.57	<13	PASS
	HCH	12	0	6.94	<13	PASS
		12	6	7	<13	PASS
		12	13	7.02	<13	PASS
1		25	0	6.72	<13	PASS

Channel Bar	ndwidth: 10	MHz				
Modulation	Channel	RB Config	guration Offset	Peak-to-Average Ratio	Limit [dB]	Verdict
		1	0	5.81	<13	PASS
		1	24	5.73	<13	PASS
		1	49	5.68	<13	PASS
	LCH	25	0	5.7	<13	PASS
		25	12	5.85	<13	PASS
		25	25	5.9	<13	PASS
		50	0	5.76	<13	PASS
		1	0	5.93	<13	PASS
		1	24	5.94	<13	PASS
		1	49	5.93	<13	PASS
QPSK	MCH	25	0	6	<13	PASS
		25	12	6.11	<13	PASS
		25	25	6.05	<13	PASS
		50	0	5.89	<13	PASS
		1	0	5.56	<13	PASS
		1	24	5.5	<13	PASS
		1	49	5.63	<13	PASS
	HCH	25	0	5.9	<13	PASS
		25	12	6.05	<13	PASS
		25	25	6.07	<13	PASS
		50	0	6.01	<13	PASS
16QAM	LCH	1	0	6.68	<13	PASS

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		1	24	6.81	<13	PASS
		1	49	6.75	<13	PASS
		25	0	6.54	<13	PASS
		25	12	6.6	<13	PASS
		25	25	6.63	<13	PASS
		50	0	6.42	<13	PASS
		1	0	6.67	<13	PASS
		1	24	6.93	<13	PASS
		1	49	7	<13	PASS
	MCH	25	0	6.8	<13	PASS
		25	12	6.84	<13	PASS
		25	25	6.77	<13	PASS
		50	0	6.6	<13	PASS
		1	0	6.52	<13	PASS
		1	24	6.68	<13	PASS
		1	49	6.71	<13	PASS
	HCH	25	0	6.63	<13	PASS
		25	12	6.79	<13	PASS
		25	25	6.8	<13	PASS
		50	0	6.58	<13	PASS

Channel Ba			figuration	Dook to Average Batic	Limit	
Modulation	Channel	Size	Offset	Peak-to-Average Ratio [dB]	[dB]	Verdic
		1	0	9.35	<13	PASS
		1	37	5.86	<13	PASS
		1	74	8.7	<13	PASS
	LCH	37	0	4.79	<13	PASS
		37	18	5.86	<13	PASS
		37	38	5.12	<13	PASS
		75	0	5.01	<13	PASS
		1	0	9.41	<13	PASS
		1	37	5.92	<13	PASS
		1	74	8.63	<13	PASS
QPSK	MCH	37	0	5.05	<13	PASS
		37	18	6.02	<13	PASS
		37	38	5.02	<13	PASS
		75	0	5.04	<13	PASS
		1	0	9.2	<13	PASS
		1	37	5.87	<13	PASS
		1	74	8.5	<13	PASS
	HCH	37	0	4.74	<13	PASS
		37	18	5.87	<13	PASS
		37	38	5.12	<13	PASS
		75	0	4.98	<13	PASS
		1	0	9.27	<13	PASS
		1	37	6.81	<13	PASS
		1	74	9.21	<13	PASS
	LCH	37	0	6.02	<13	PASS
		37	18	6.51	<13	PASS
I6QAM		37	38	6.33	<13	PASS
		75	0	6.27	<13	PASS
		1	0	9.91	<13	PASS
	MCH	1	37	6.99	<13	PASS
	IVICIT	1	74	8.79	<13	PASS
		37	0	6.31	<13	PASS

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	37	18	6.73	<13	PASS
	37	38	6.3	<13	PASS
	75	0	6.41	<13	PASS
	1	0	9.29	<13	PASS
	1	37	6.86	<13	PASS
	1	74	9.26	<13	PASS
HCH	37	0	6.04	<13	PASS
	37	18	6.66	<13	PASS
	37	38	6.32	<13	PASS
	75	0	6.25	<13	PASS

NA	01 -	RB Con	figuration	Peak-to-Average Ratio	Limit	\
Modulation	Channel	Size	Offset	[dB]	[dB]	Verdict
		1	0	6.54	<13	PASS
		1	49	5.66	<13	PASS
		1	99	6.37	<13	PASS
	LCH	50	0	5.46	<13	PASS
		50	25	5.95	<13	PASS
		50	50	5.84	<13	PASS
		100	0	5.71	<13	PASS
		1	0	6.78	<13	PASS
		1	49	5.84	<13	PASS
		1	99	6.77	<13	PASS
QPSK	MCH	50	0	5.71	<13	PASS
		50	25	5.95	<13	PASS
		50	50	5.89	<13	PASS
		100	0	5.74	<13	PASS
		1	0	6.87	<13	PASS
		1	49	5.97	<13	PASS
		1	99	6.52	<13	PASS
	HCH	50	0	5.45	<13	PASS
		50	25	5.8	<13	PASS
		50	50	5.86	<13	PASS
		100	0	5.67	<13	PASS
		1	0	6.76	<13	PASS
		1	49	6.86	<13	PASS
		1	99	6.85	<13	PASS
	LCH	50	0	6.53	<13	PASS
		50	25	6.63	<13	PASS
		50	50	6.68	<13	PASS
		100	0	6.73	<13	PASS
		1	0	6.89	<13	PASS
		1	49	6.58	<13	PASS
		1	99	7.29	<13	PASS
16QAM	MCH	50	0	6.69	<13	PASS
		50	25	6.72	<13	PASS
		50	50	6.71	<13	PASS
		100	0	6.81	<13	PASS
		1	0	7.48	<13	PASS
		1	49	6.59	<13	PASS
		1	99	7.05	<13	PASS
	HCH	50	0	6.47	<13	PASS
		50	25	6.43	<13	PASS
		50	50	6.65	<13	PASS
		100	0	6.62	<13	PASS

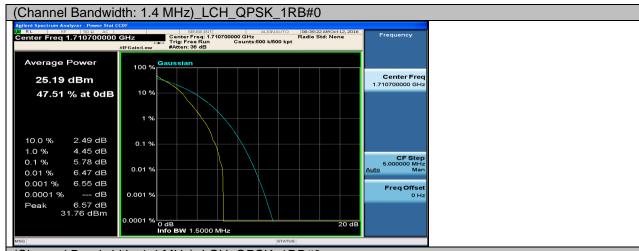
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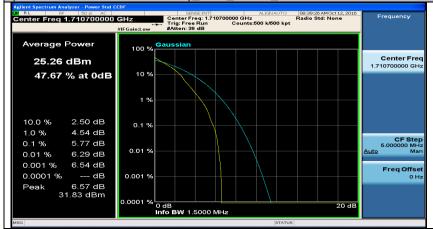
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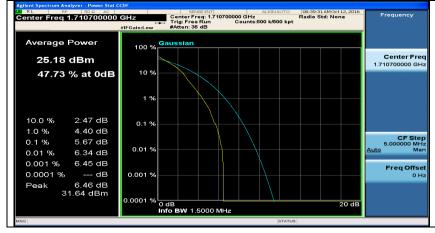
Test Graphs



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



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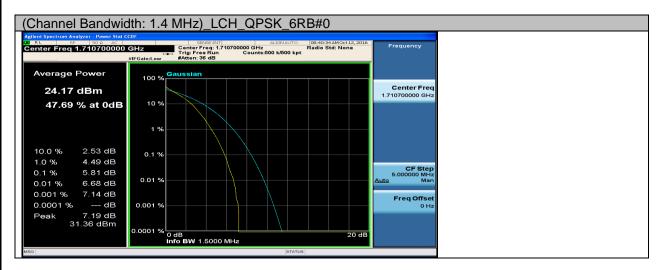


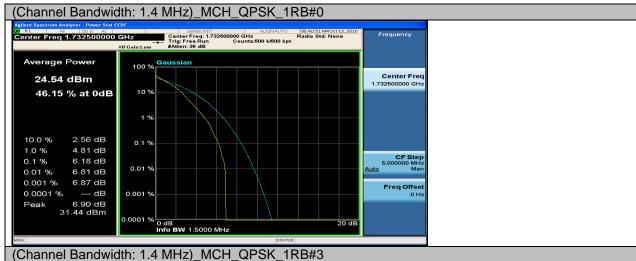
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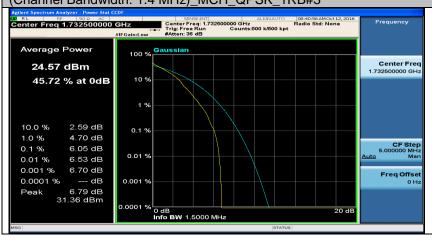


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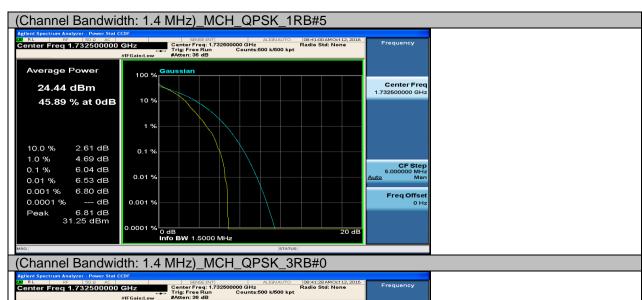
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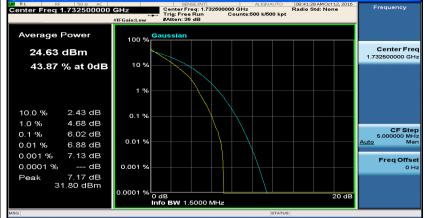


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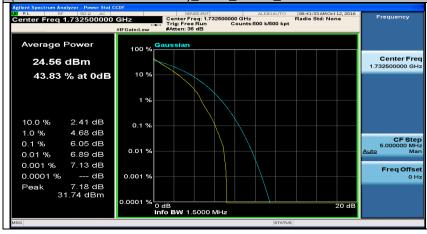
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(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



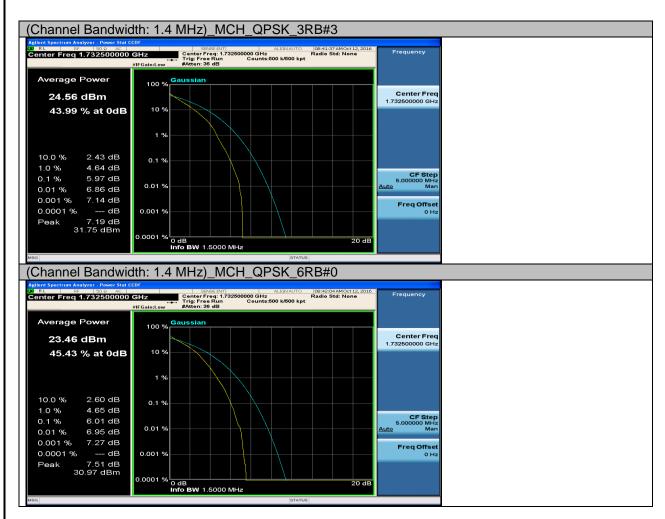
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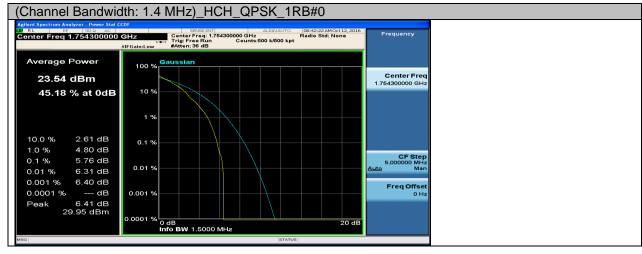


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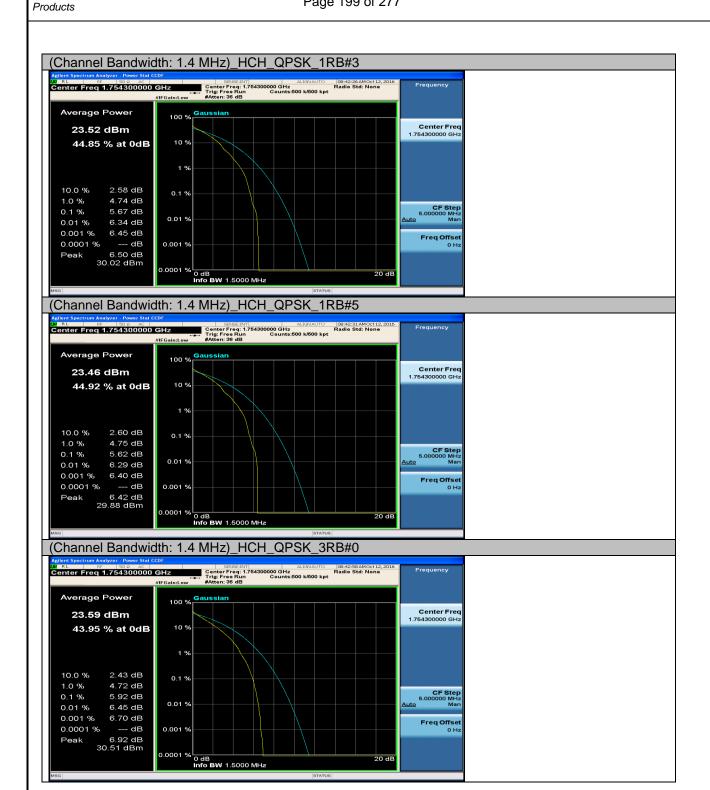


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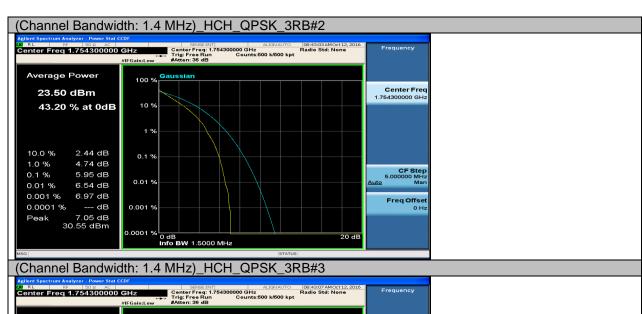
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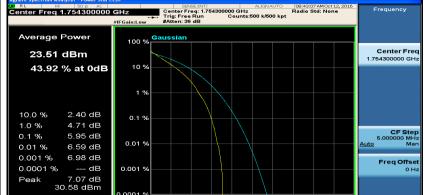


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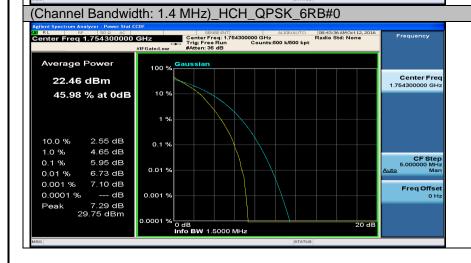
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0 dB Info BW 1.5000 MHz

0.0001 %



50064681 005



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10.0 %

1.0 %

0.1 %

0.01 %

2.81 dB

5.38 dB

6.53 dB

7.24 dB

0.01 % 7.24 dB 0.001 % 7.33 dB 0.0001 % --- dB Peak 7.39 dB 31.74 dBm

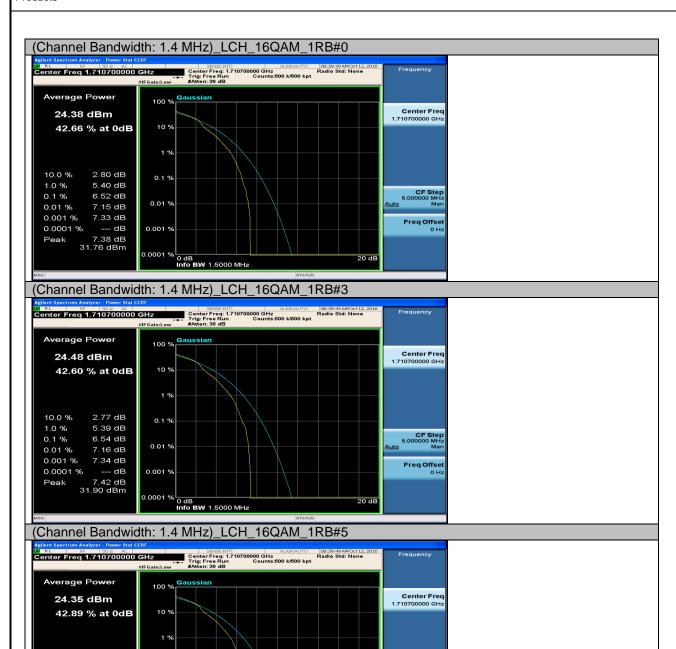
0.1 %

0.01 %

0.001 % 0.0001 %

0 dB Info BW 1.5000 MHz

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CF Step 5.000000 MHz Man

20 dB

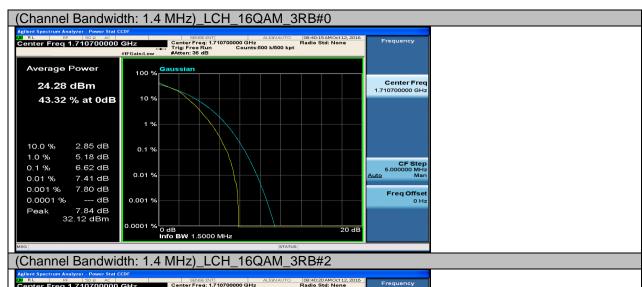
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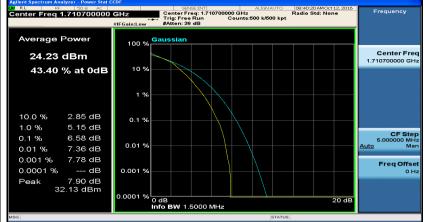


Produkte

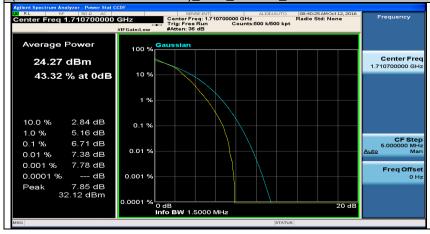
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(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



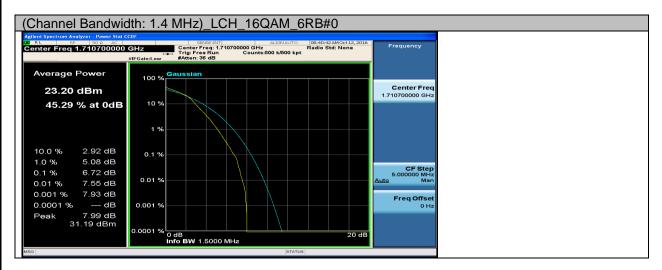
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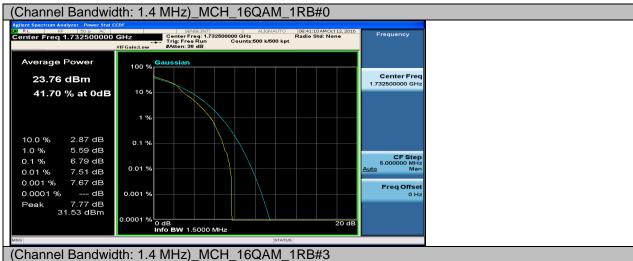


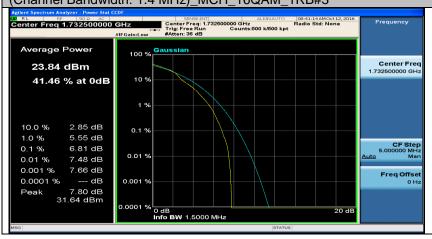
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50064681 005

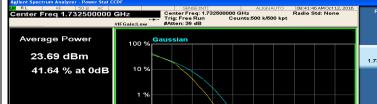


Produkte

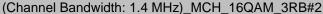
Products

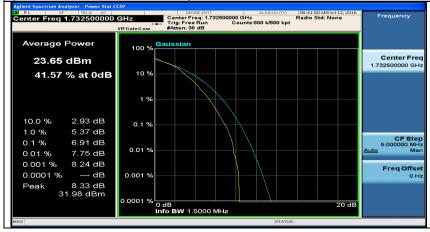
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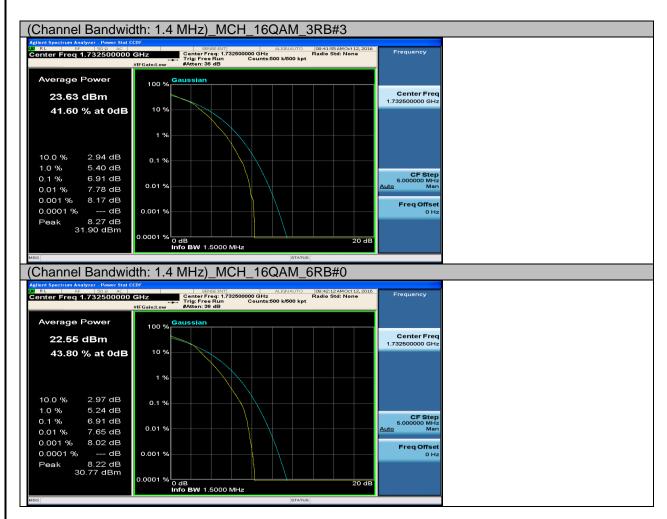
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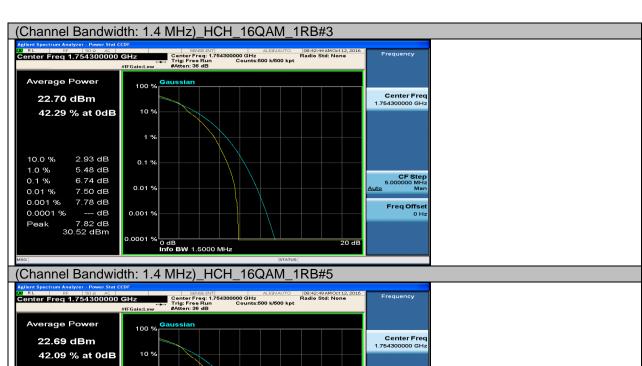
50064681 005



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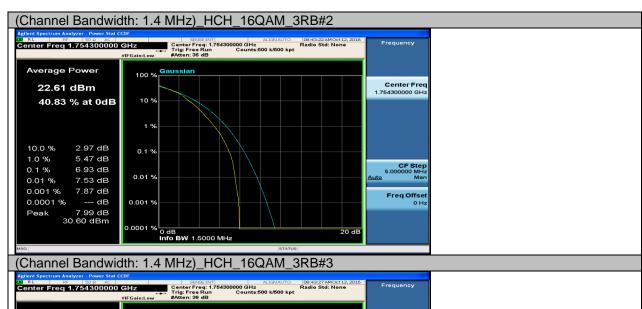
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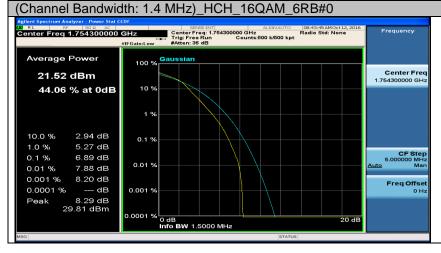
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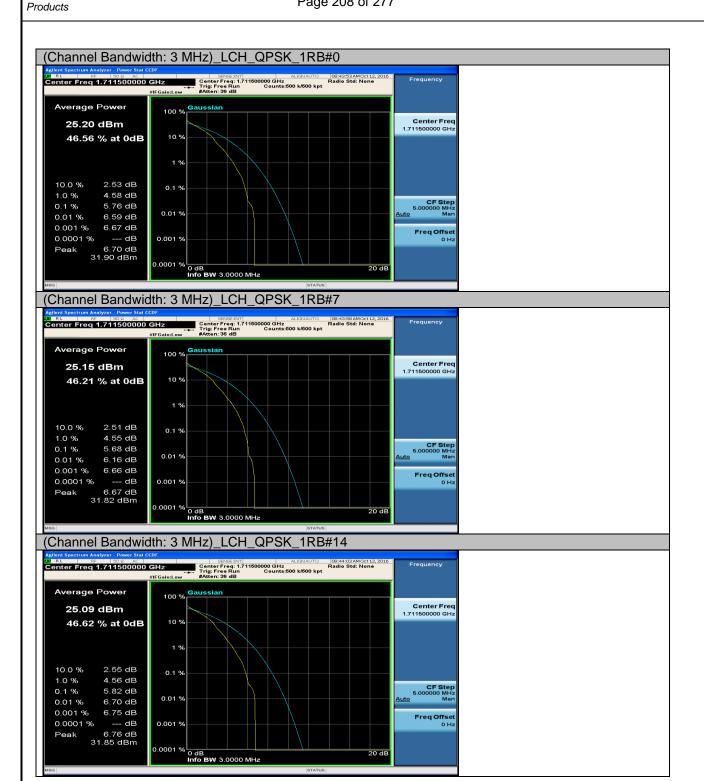


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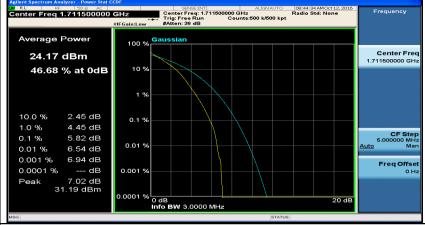


Produkte

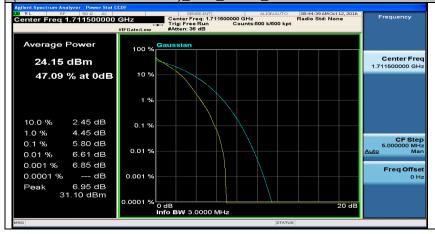
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(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



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