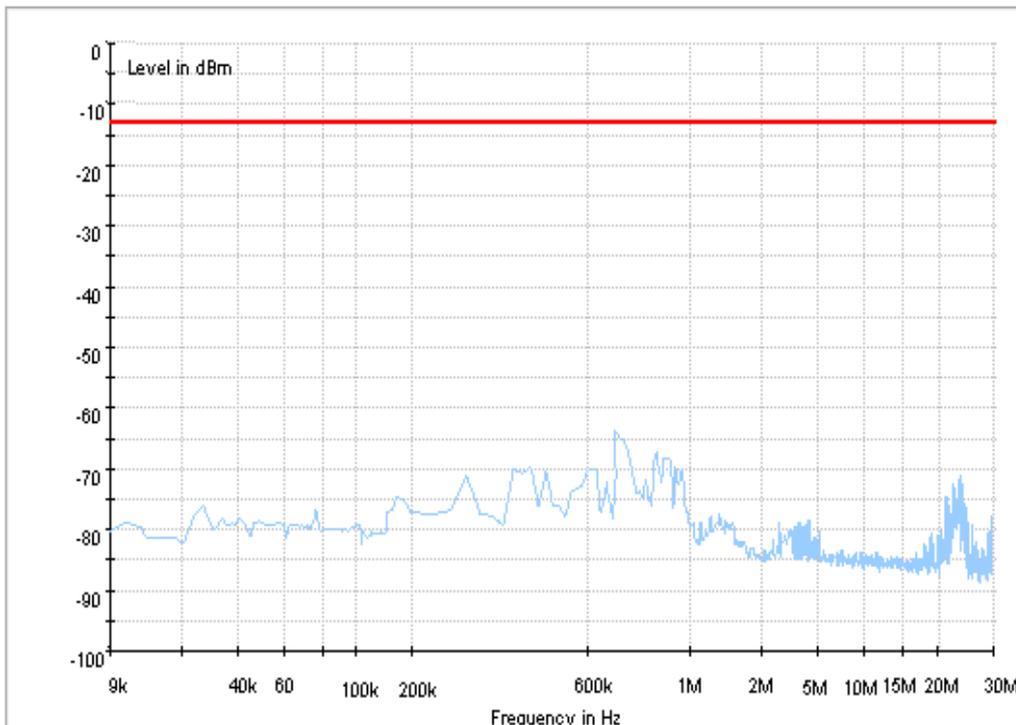
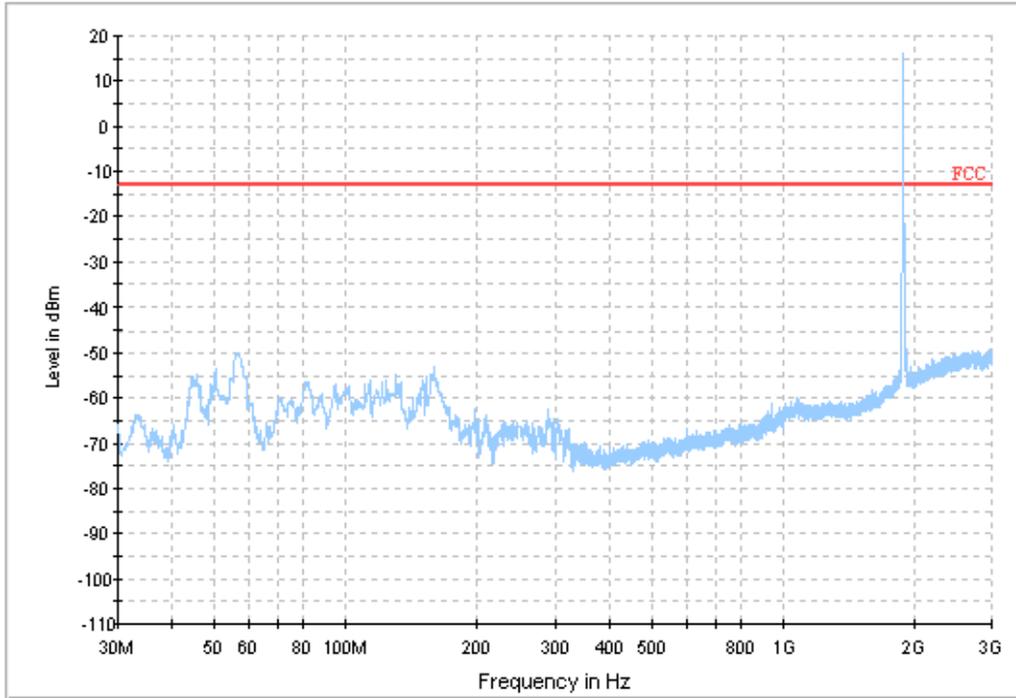


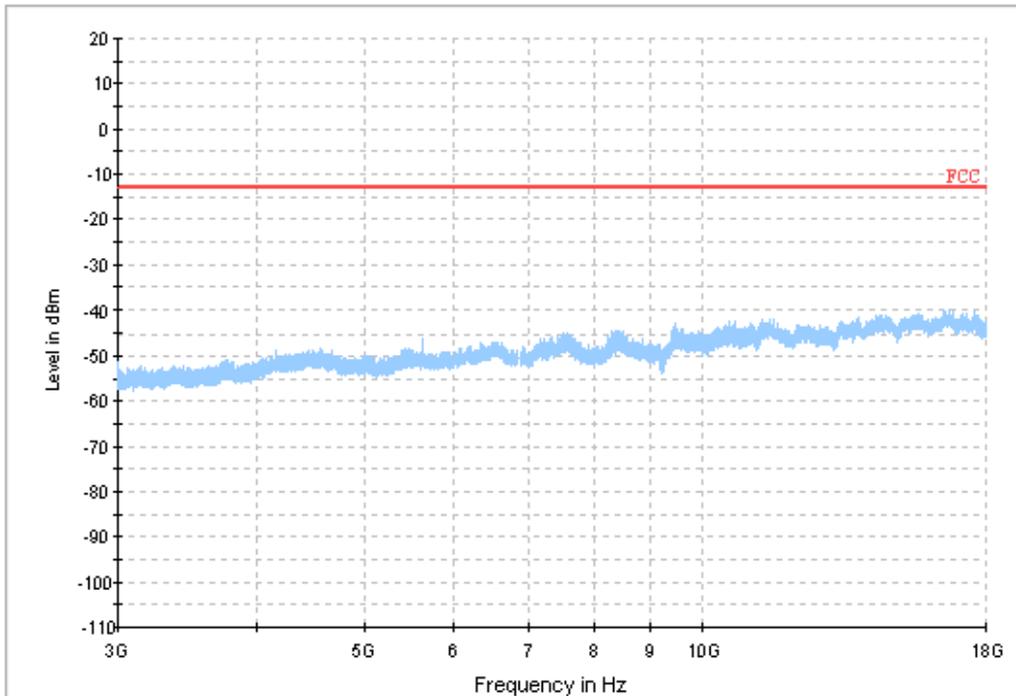
7.3.1.2 Test Bandwidth = 5

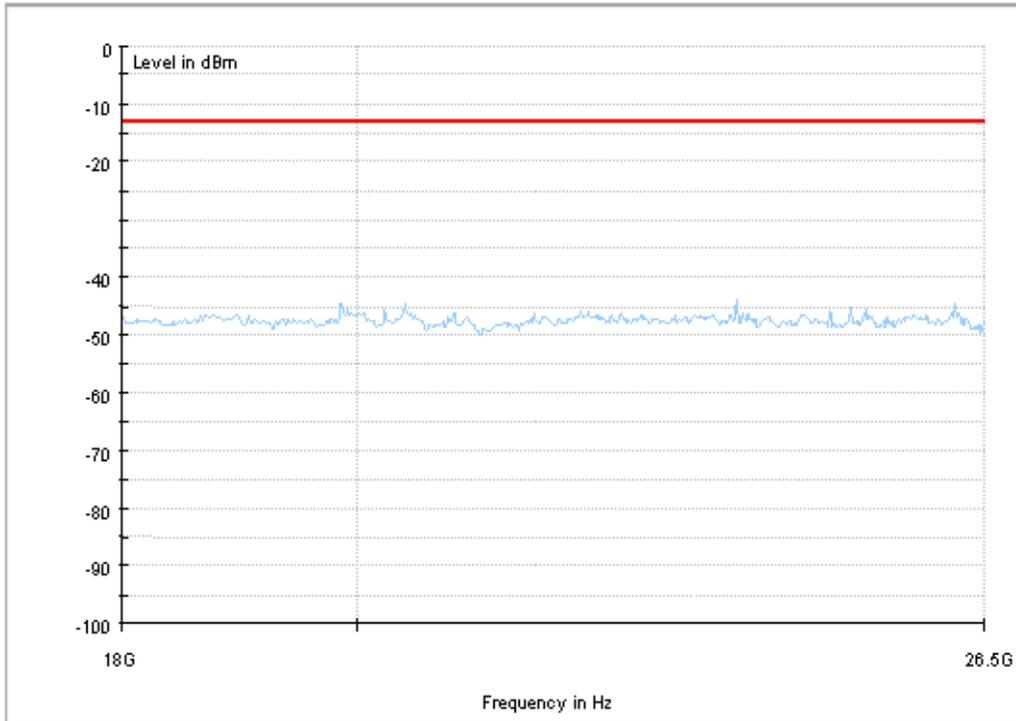


Copy of FCC PART24 LTE Band 2_L

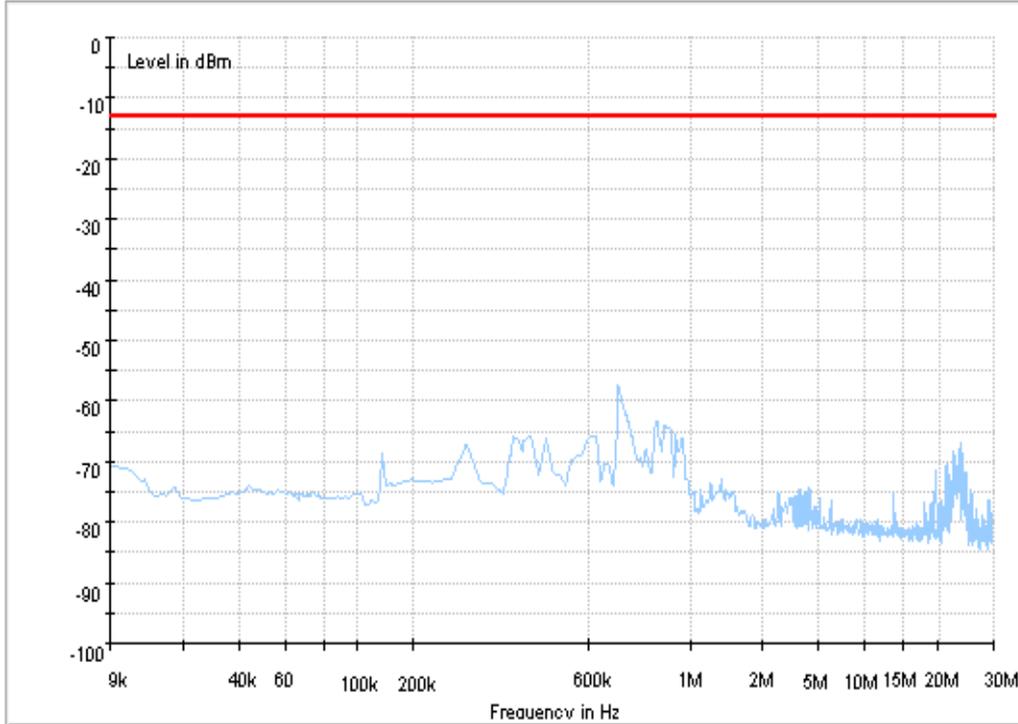


Copy of FCC PART24 LTE Band 2_H

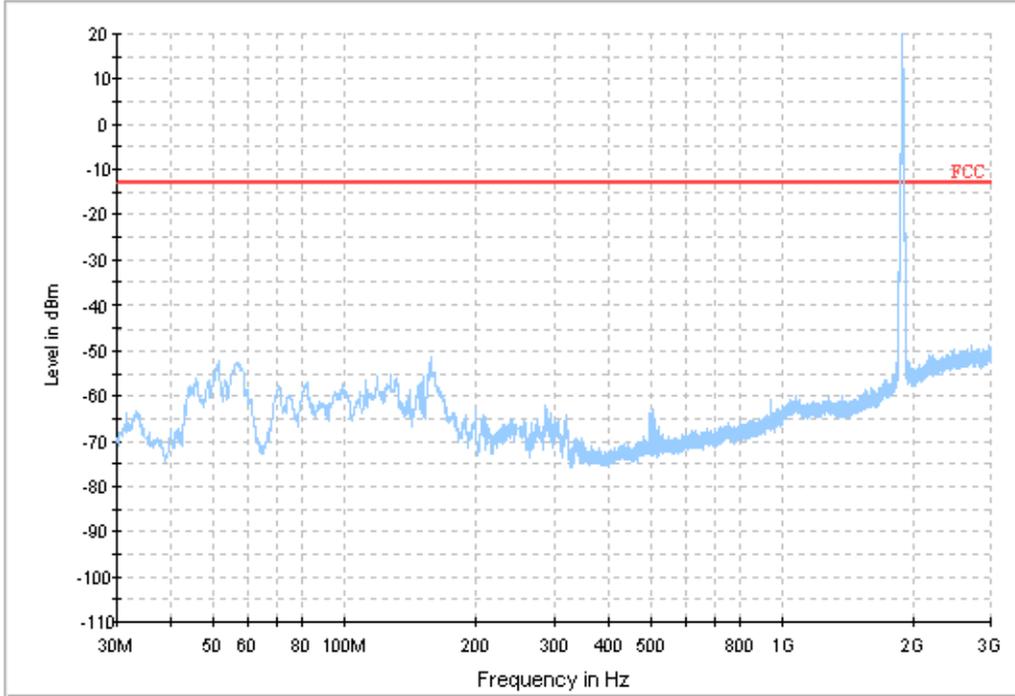




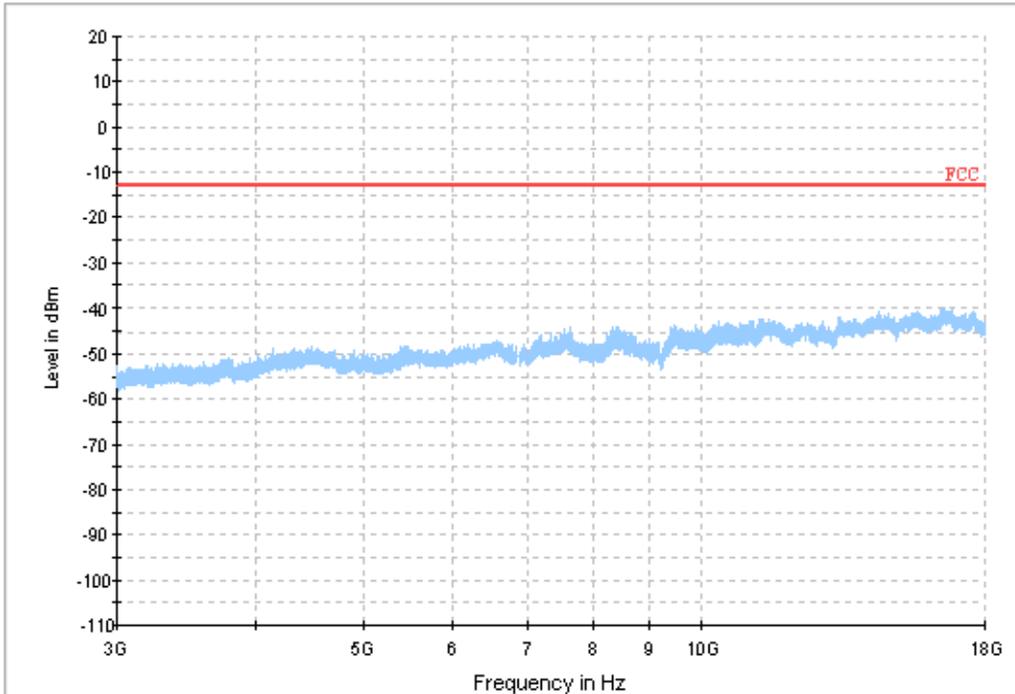
7.3.1.3 Test Bandwidth = 20

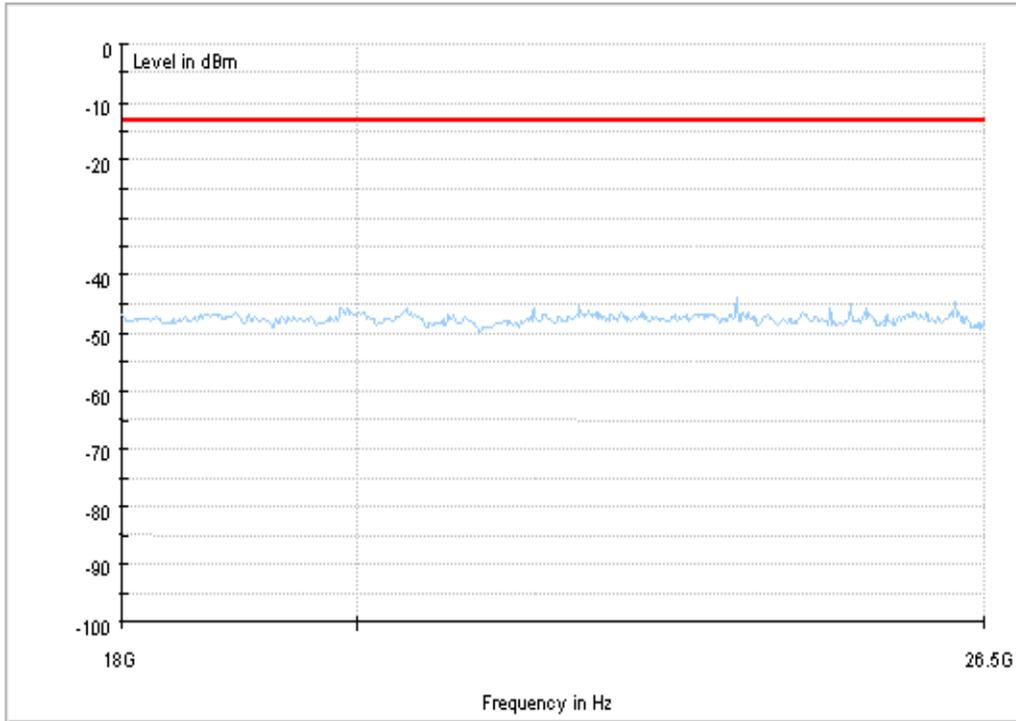


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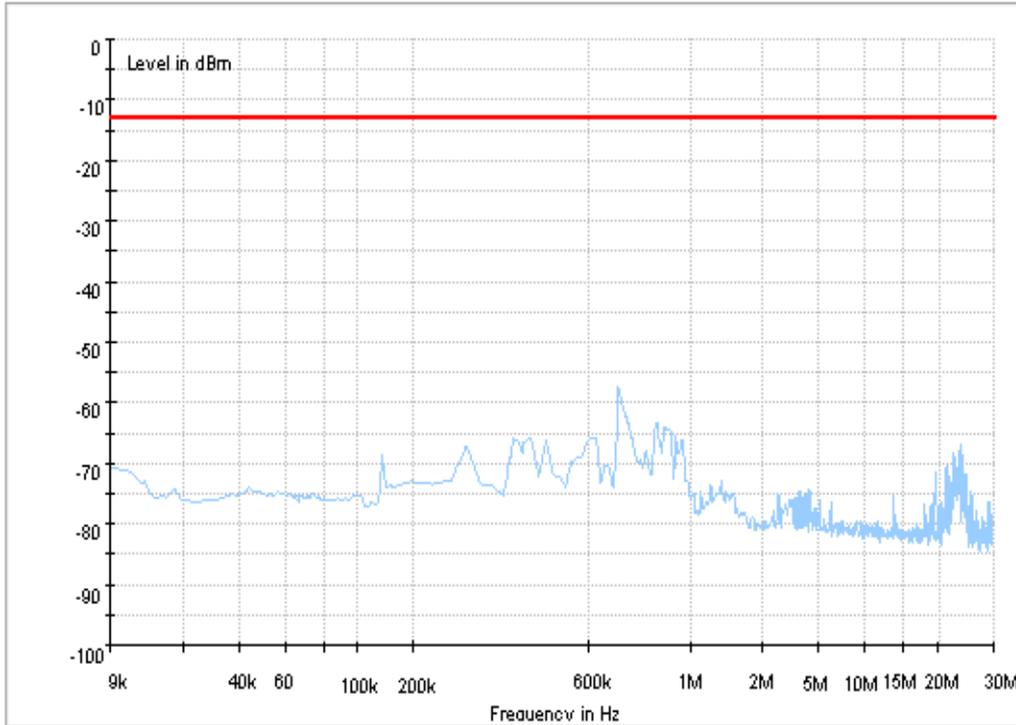
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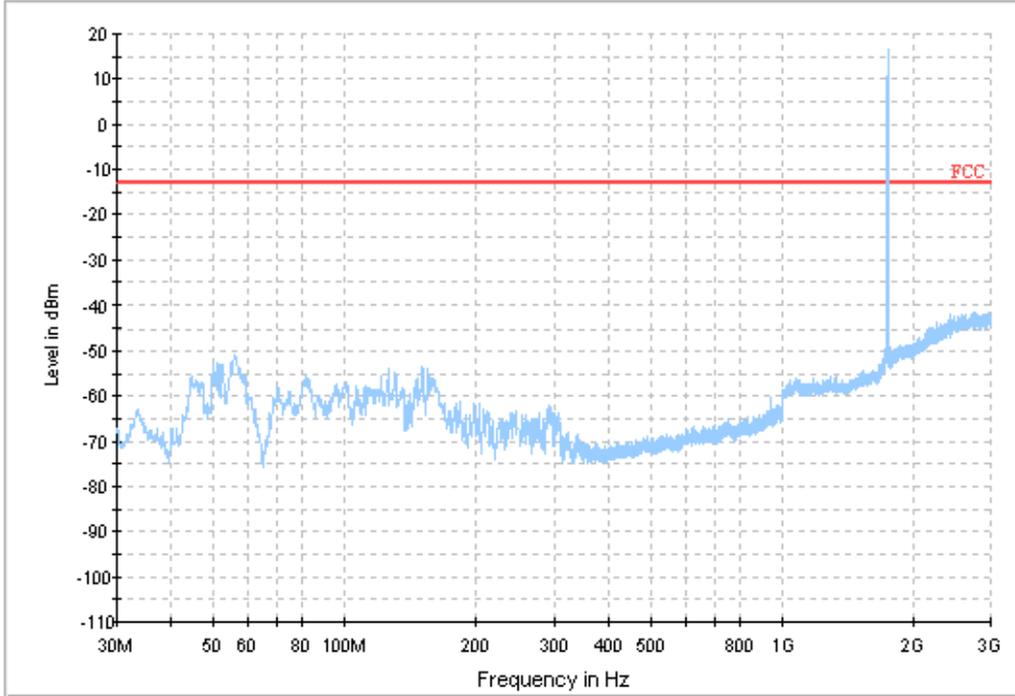


7.3.2 Test Band = BAND4

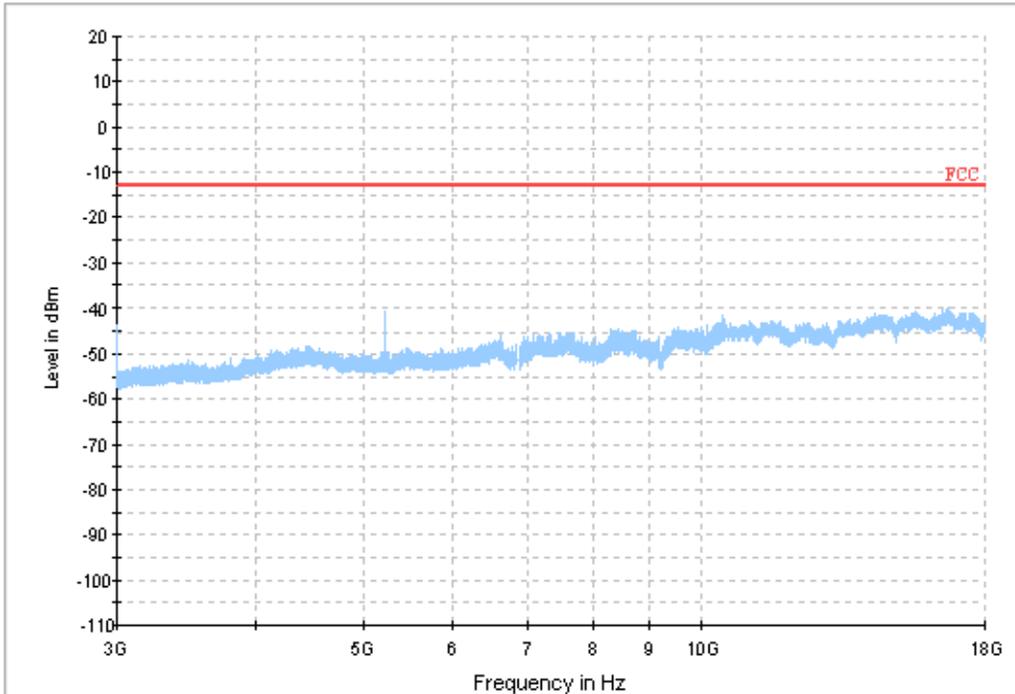
7.3.2.1 Test Bandwidth = 1.4



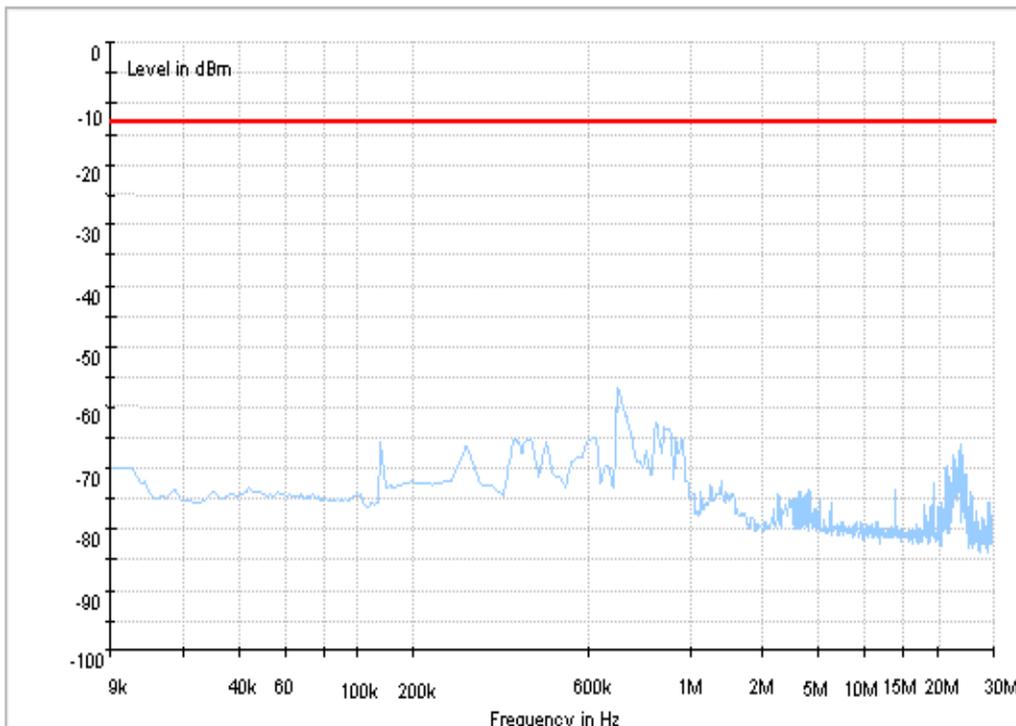
Copy of FCC PART27 LTE Band 4_L



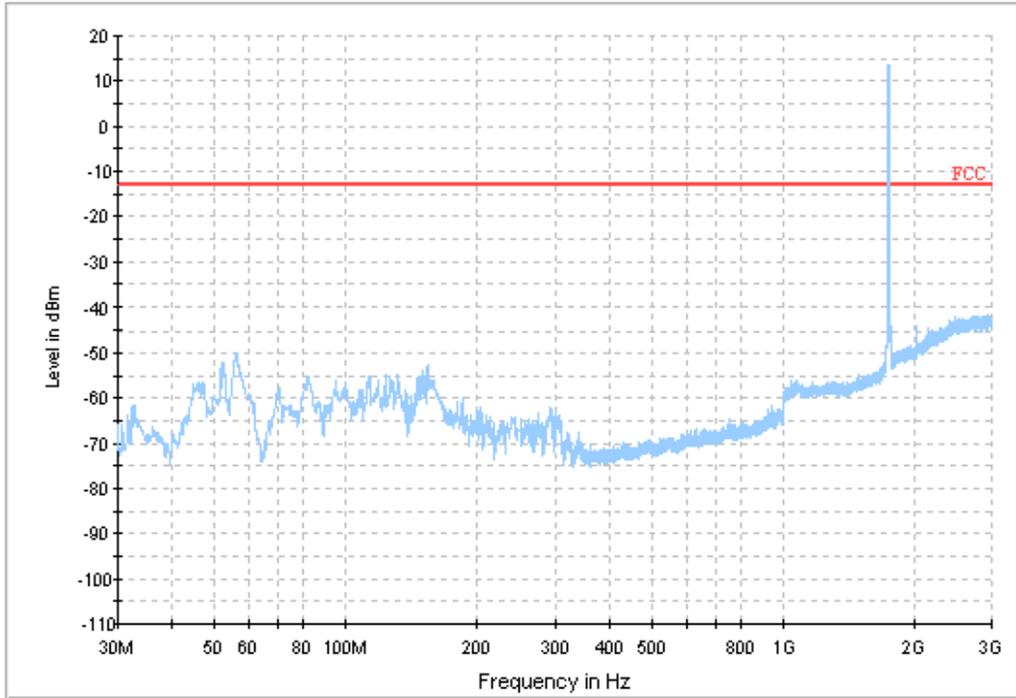
Copy of FCC PART27 LTE Band 4_H



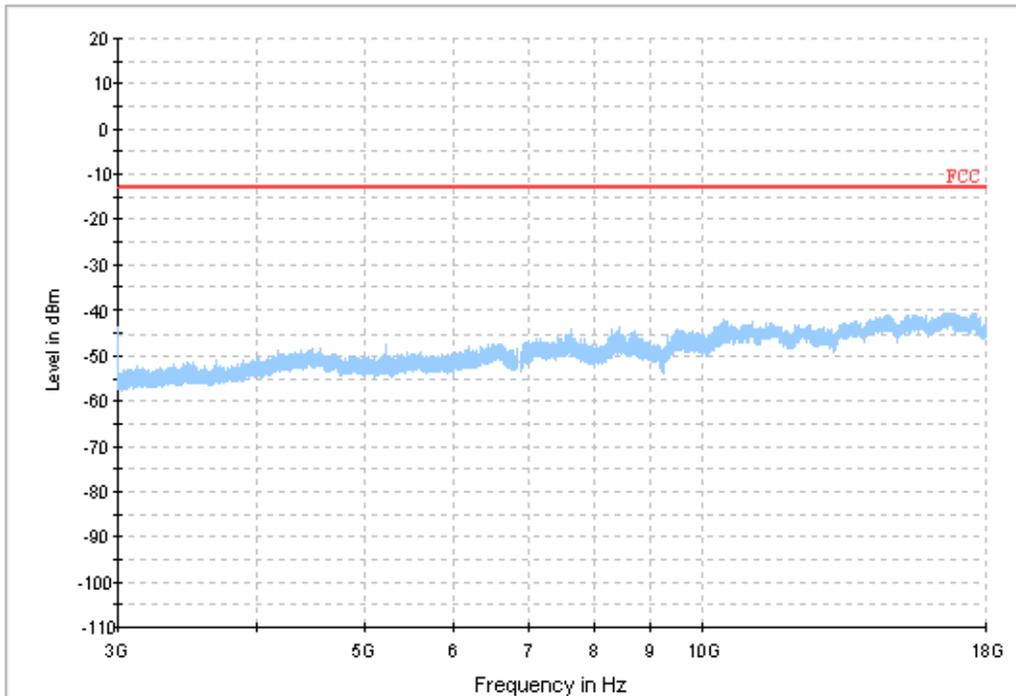
7.3.2.2 Test Bandwidth = 5



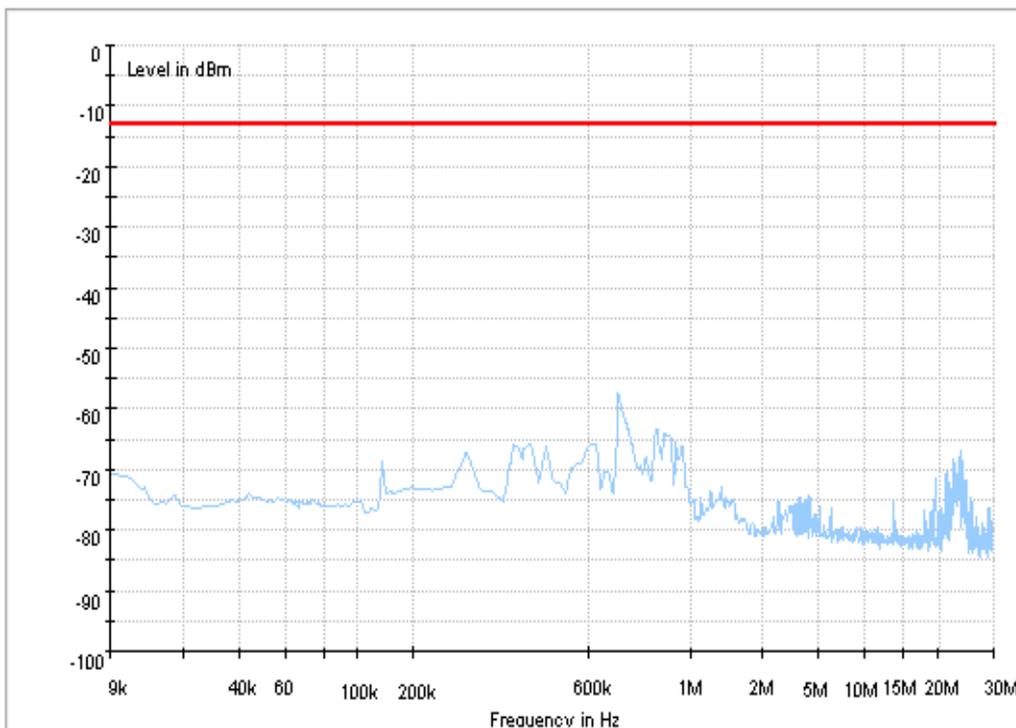
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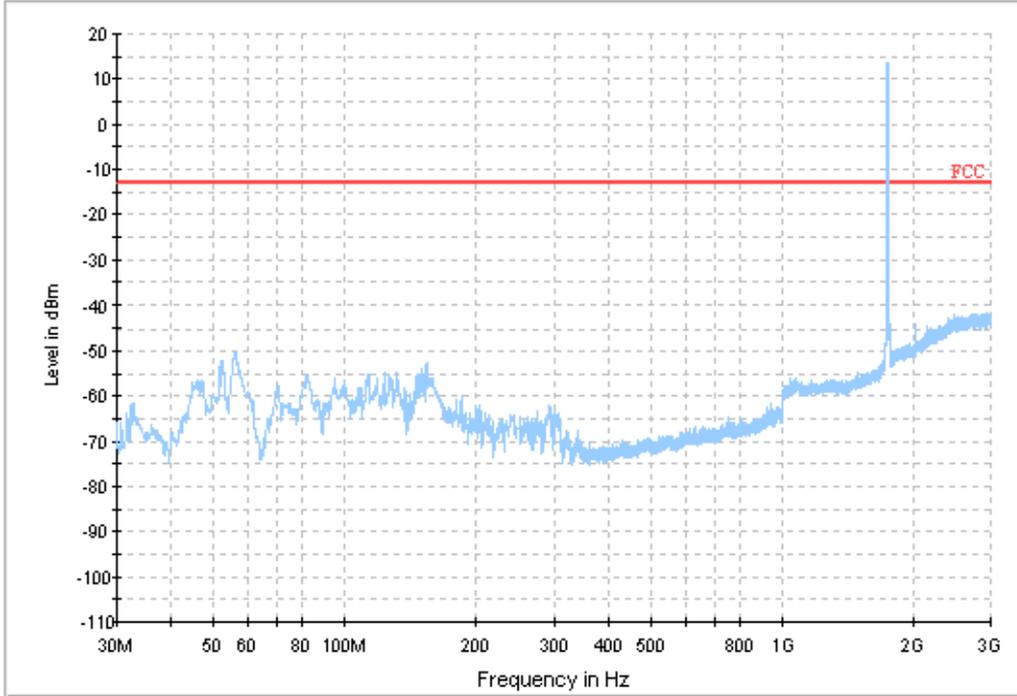
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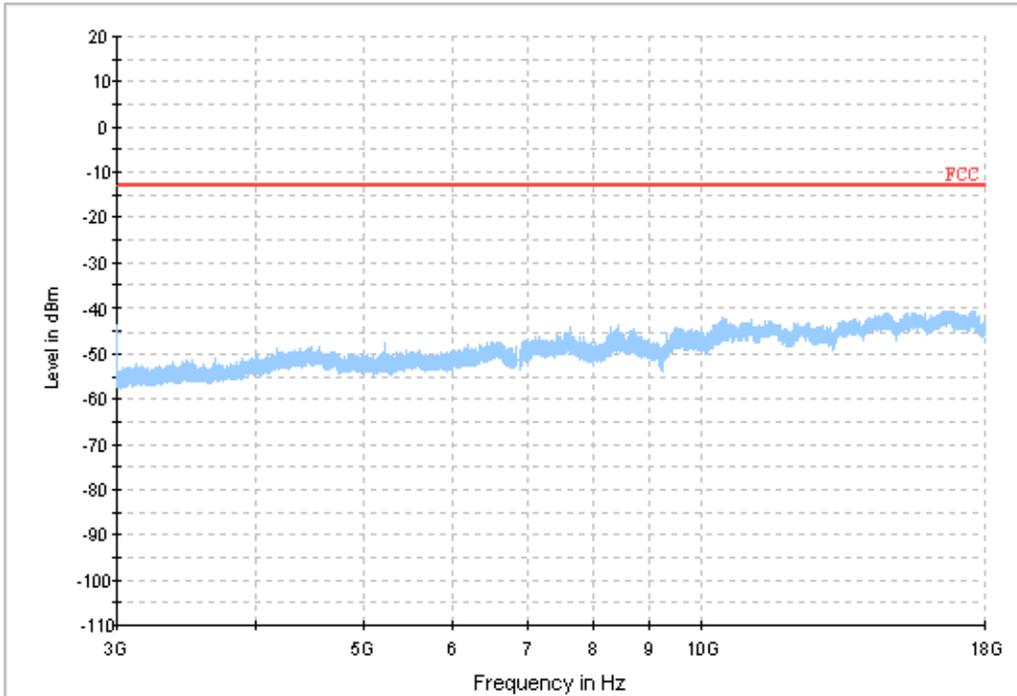
7.3.2.3 Test Bandwidth = 20



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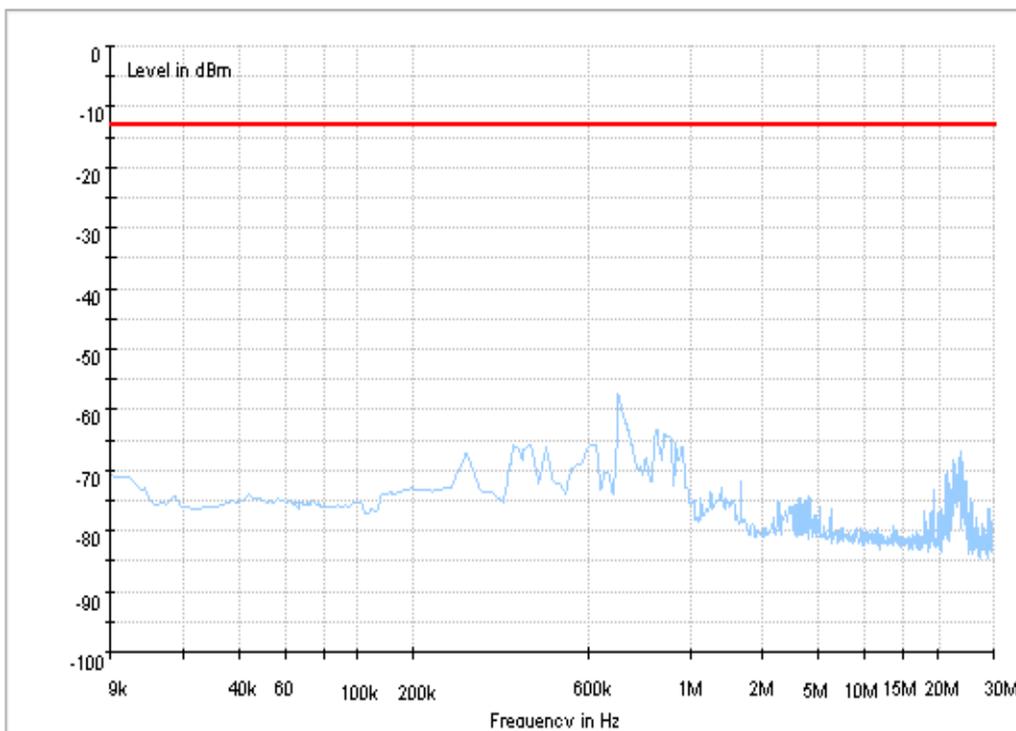


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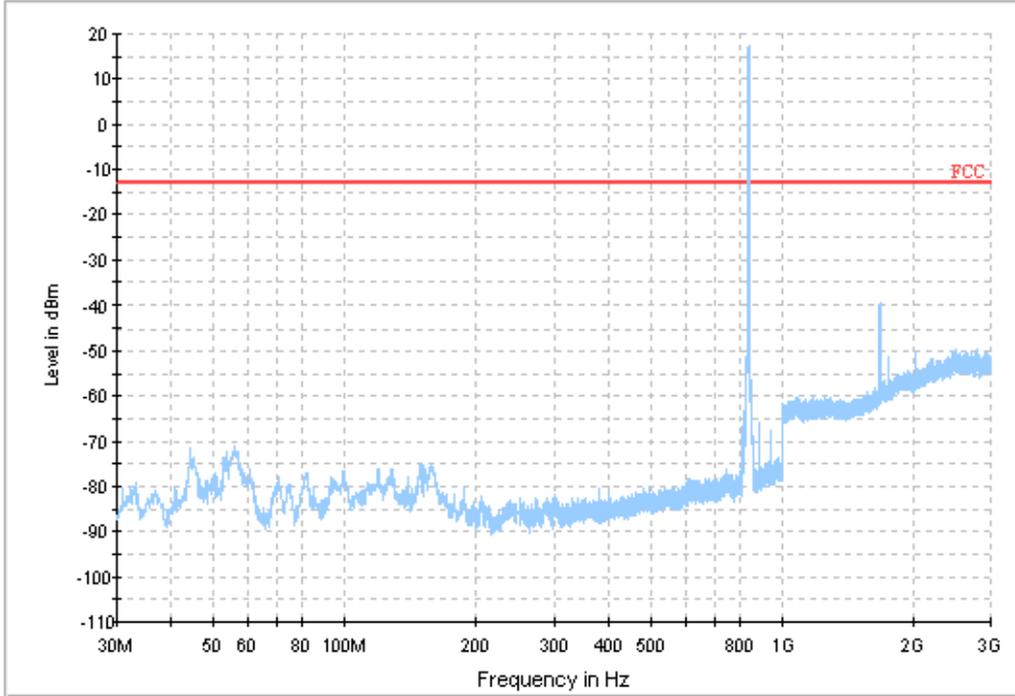


7.3.3 Test Band = BAND5

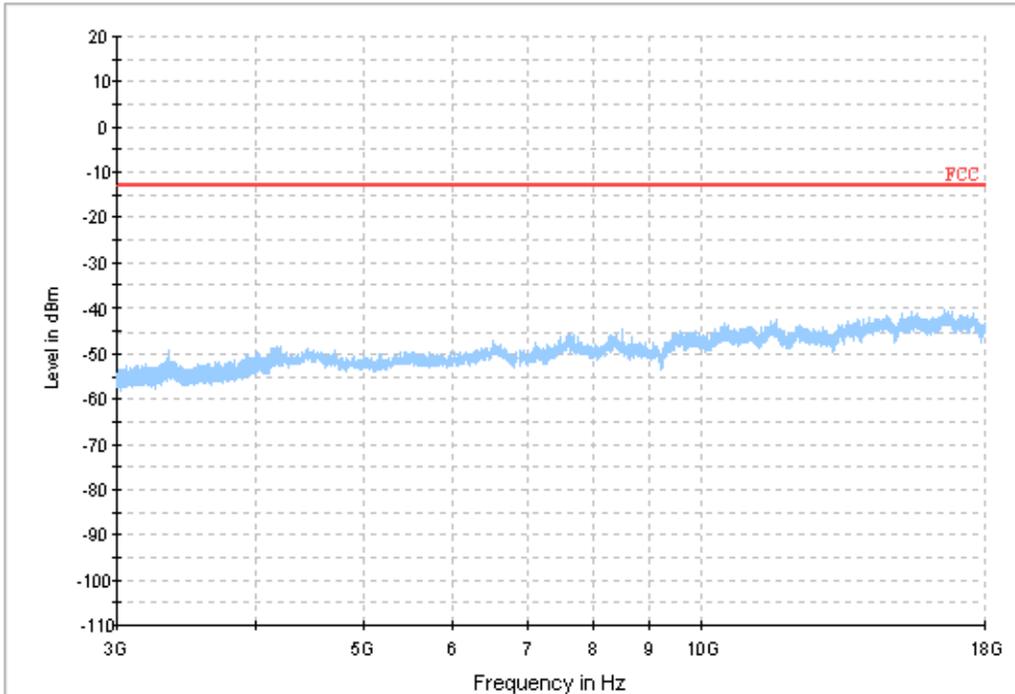
7.3.3.1 Test Bandwidth = 1.4



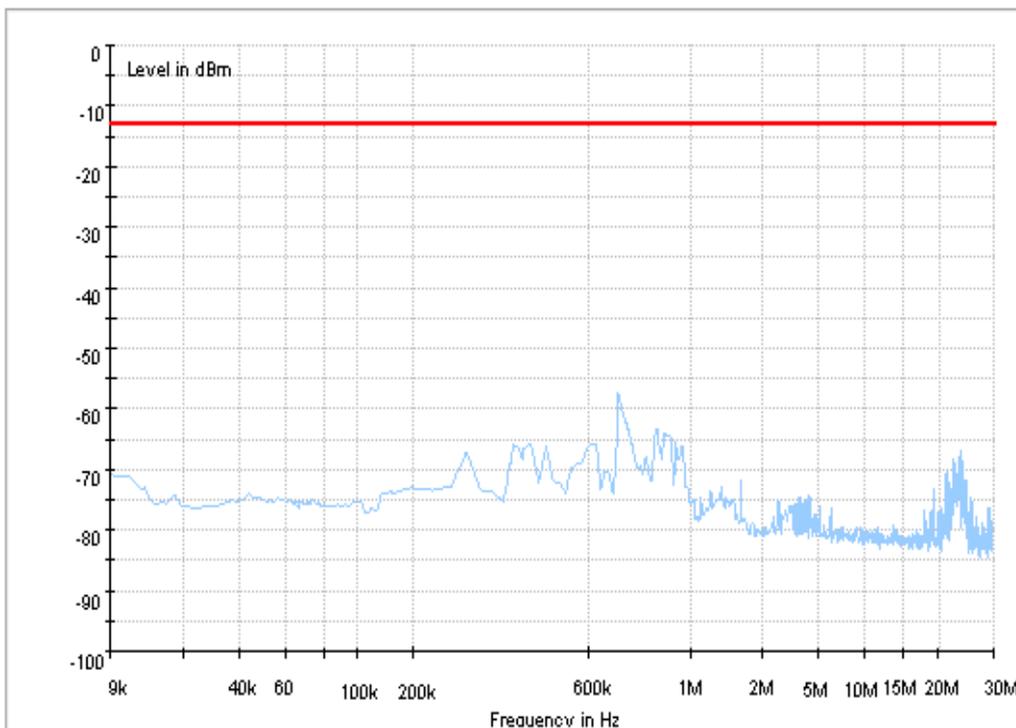
Copy of FCC PART22 LTE Band 5_L



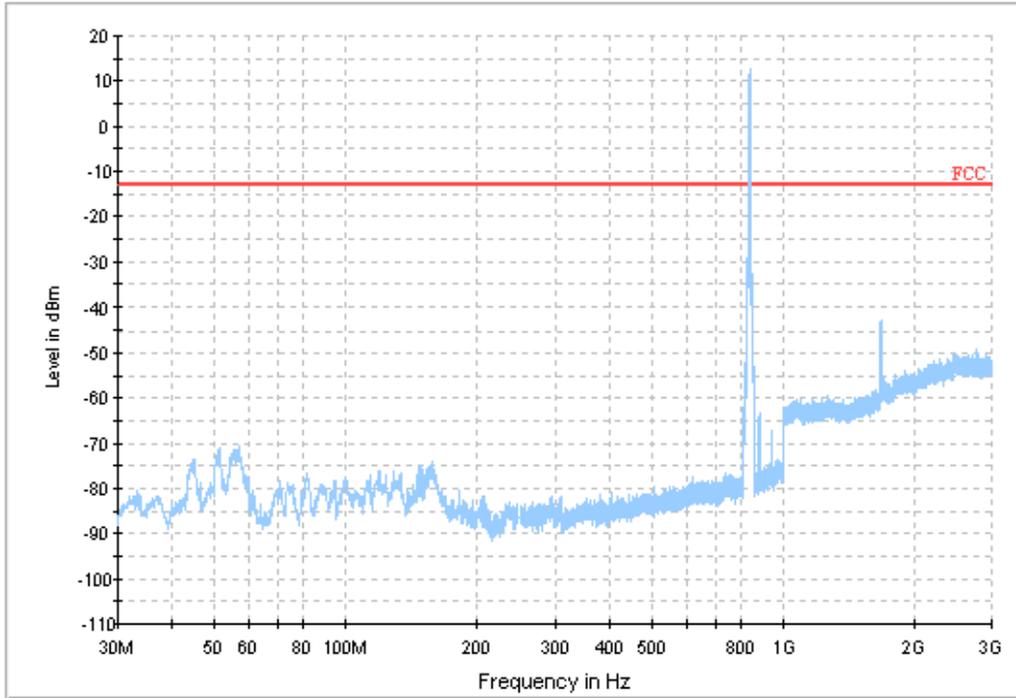
Copy of FCC PART22 LTE Band 5_H



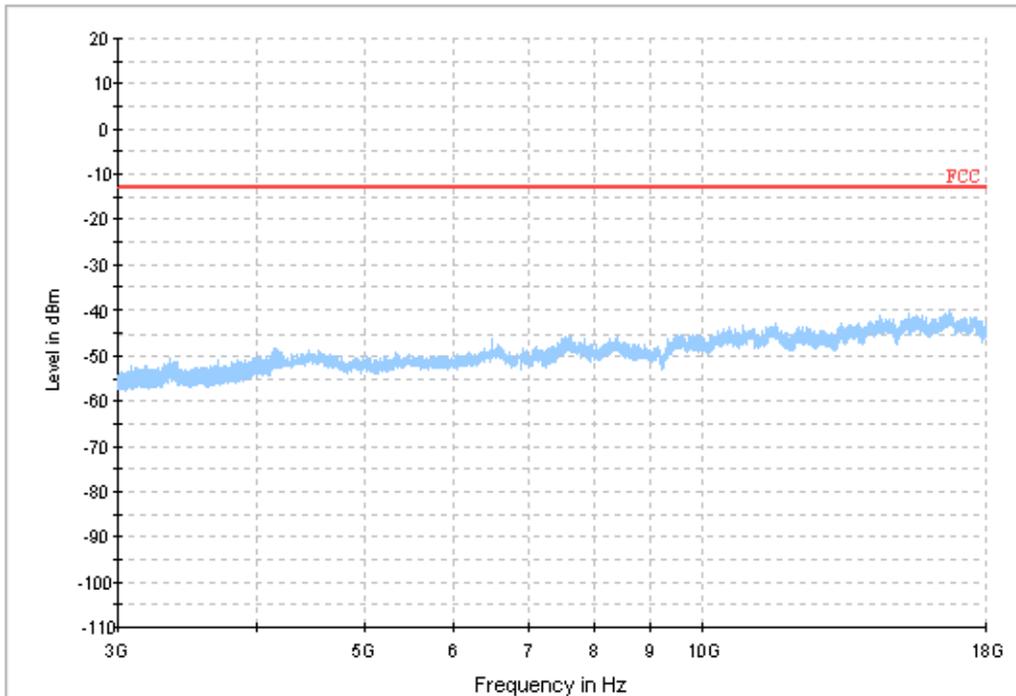
7.3.3.2 Test Bandwidth = 5



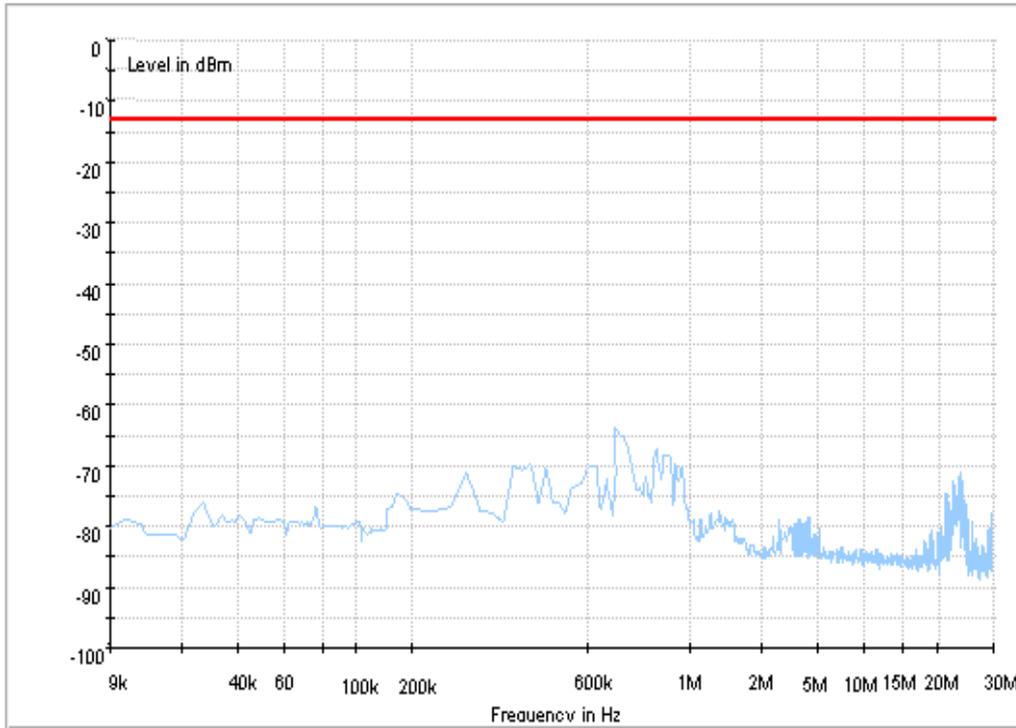
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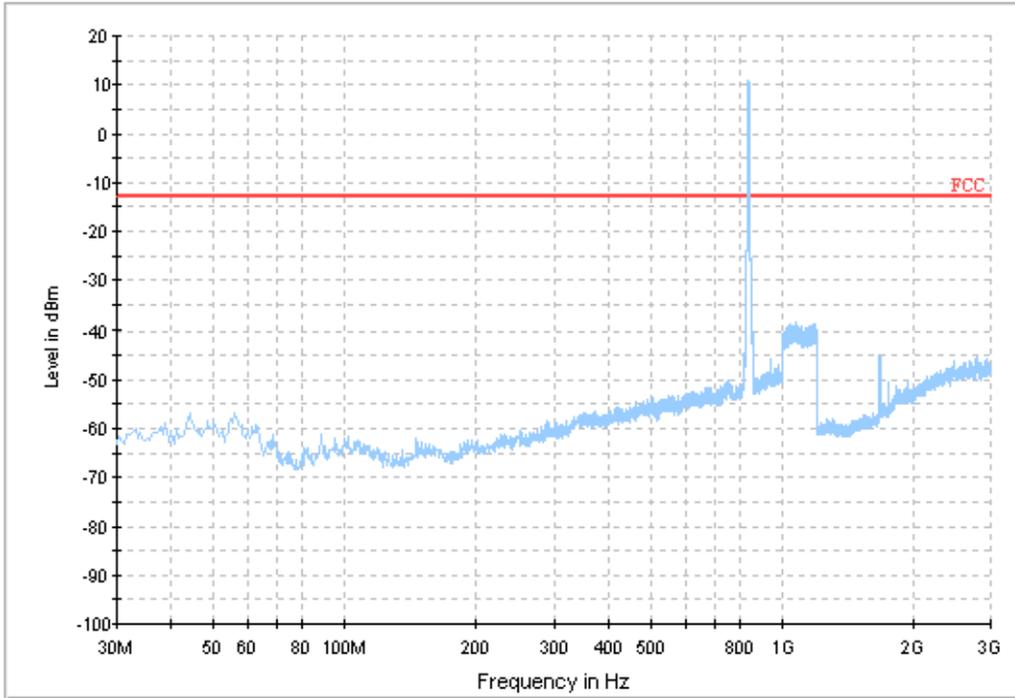
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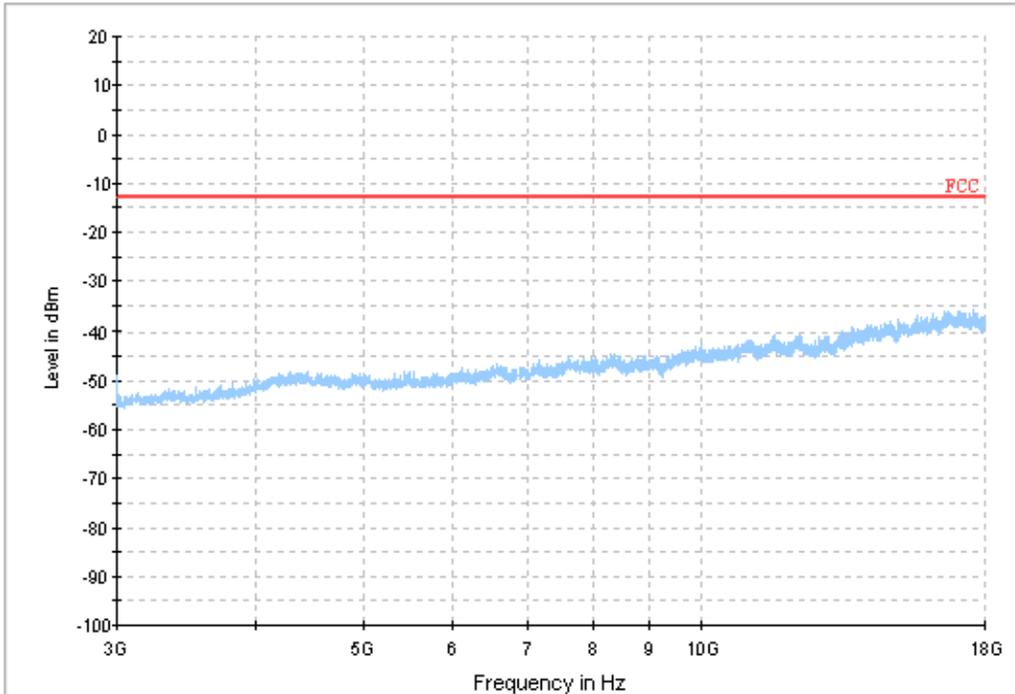
7.3.3.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

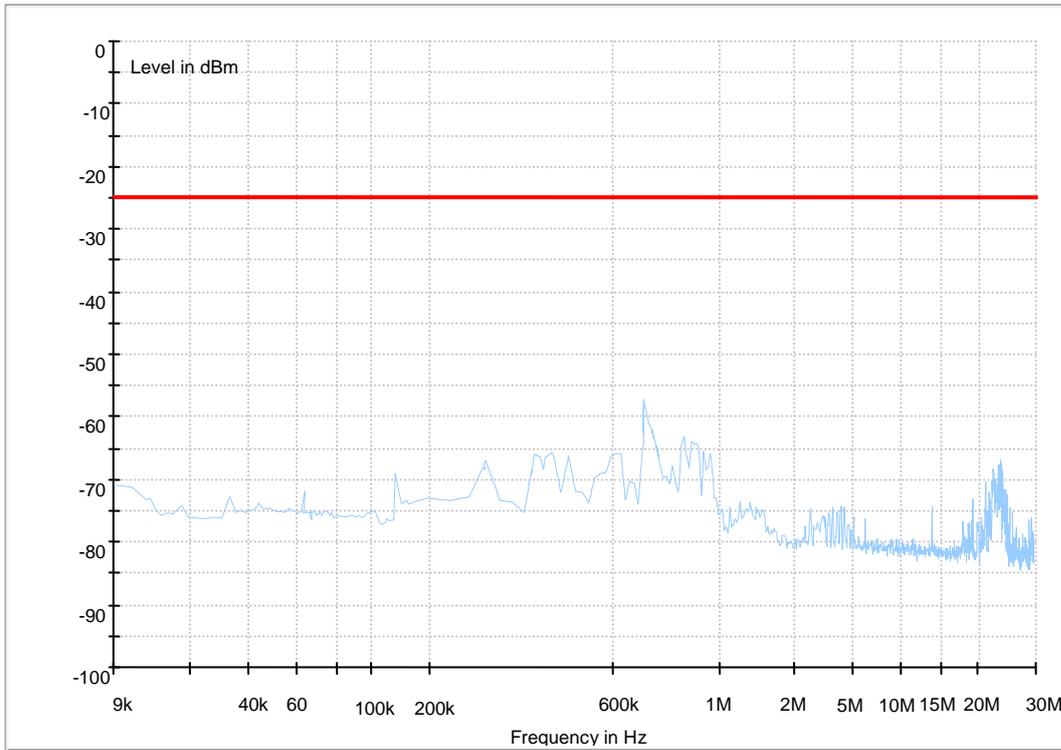


Copy of RSE-TX-DIRECTOR BELOW 1G_H

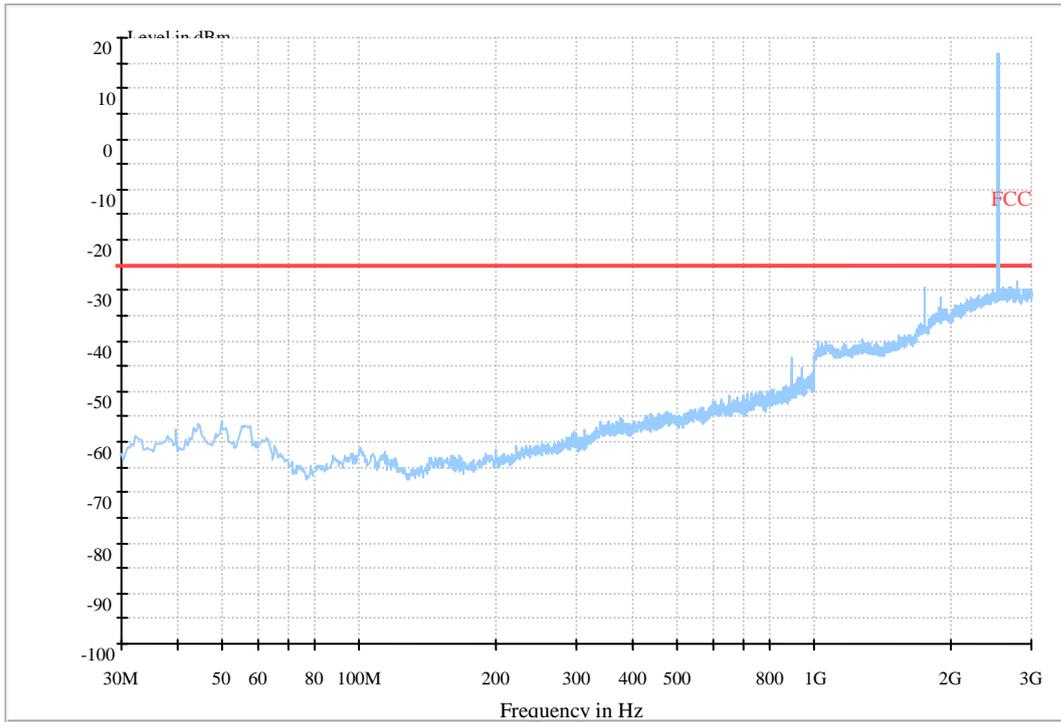


7.3.4 Test Band = BAND7

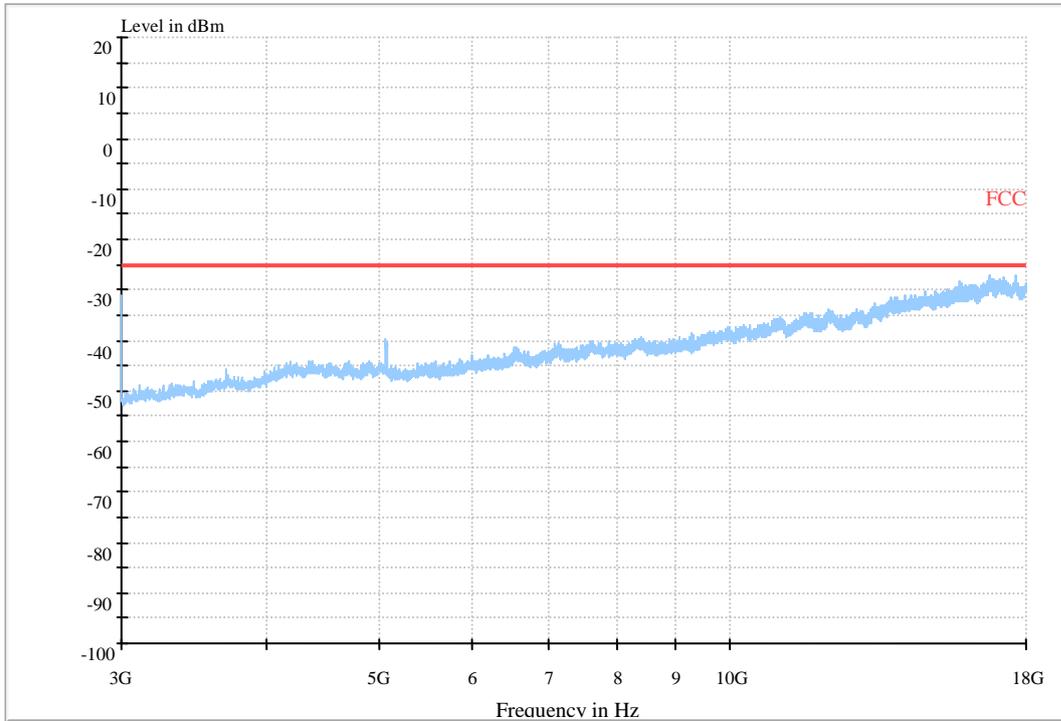
7.3.4.1 Test Bandwidth = 5

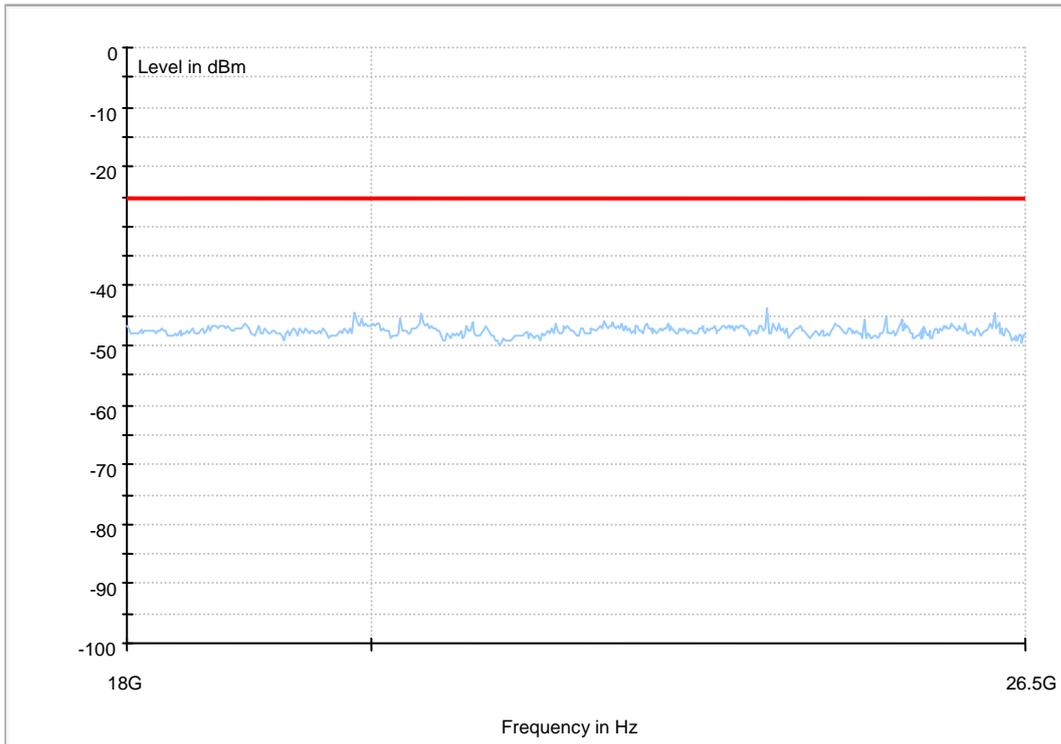


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L

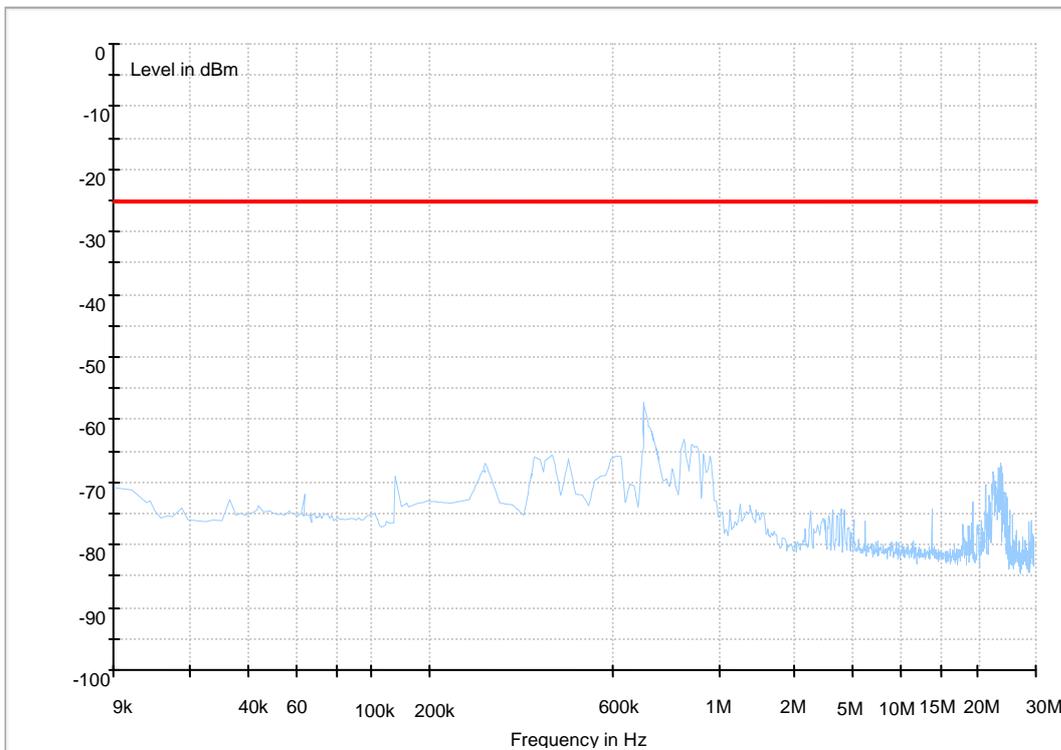


Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H

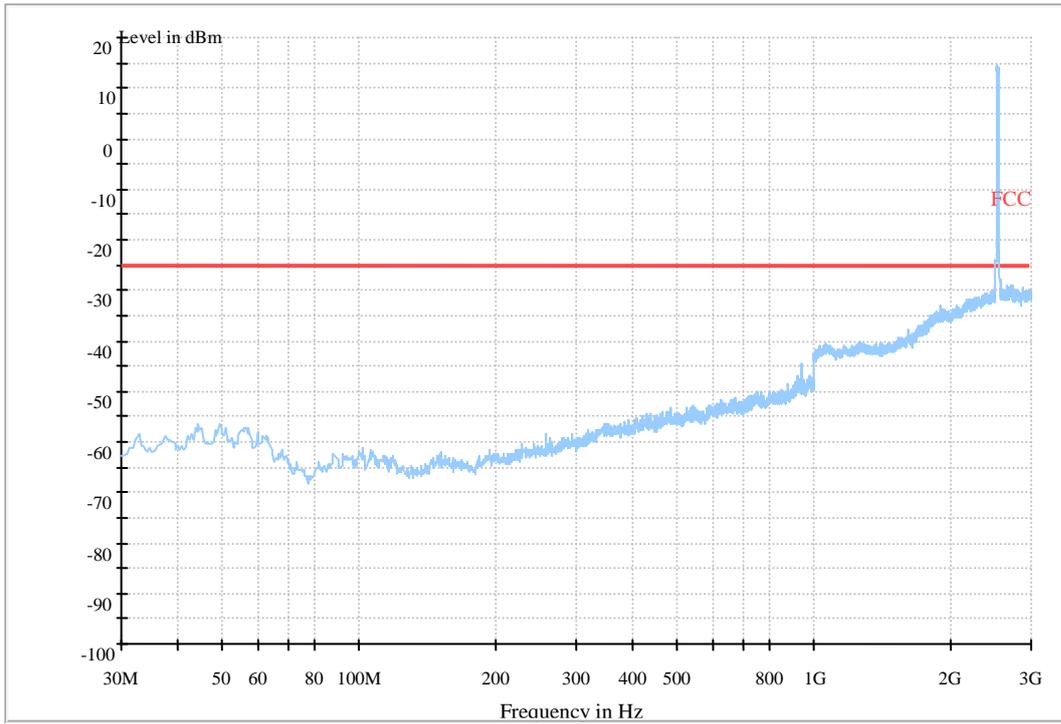




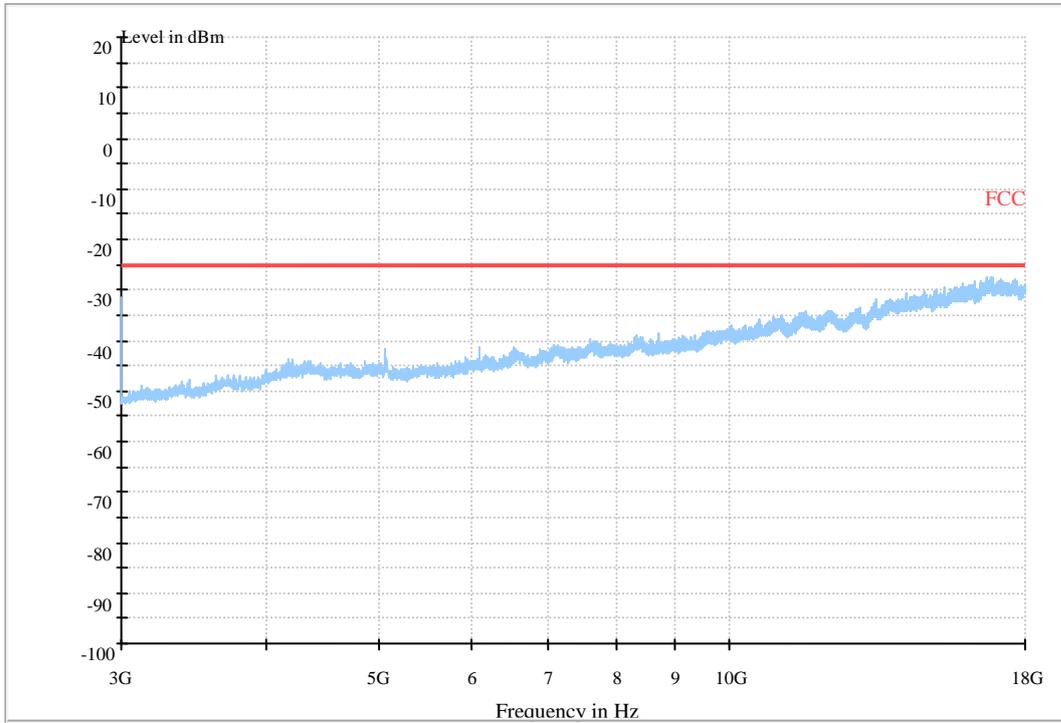
7.3.4.2 Test Bandwidth = 20

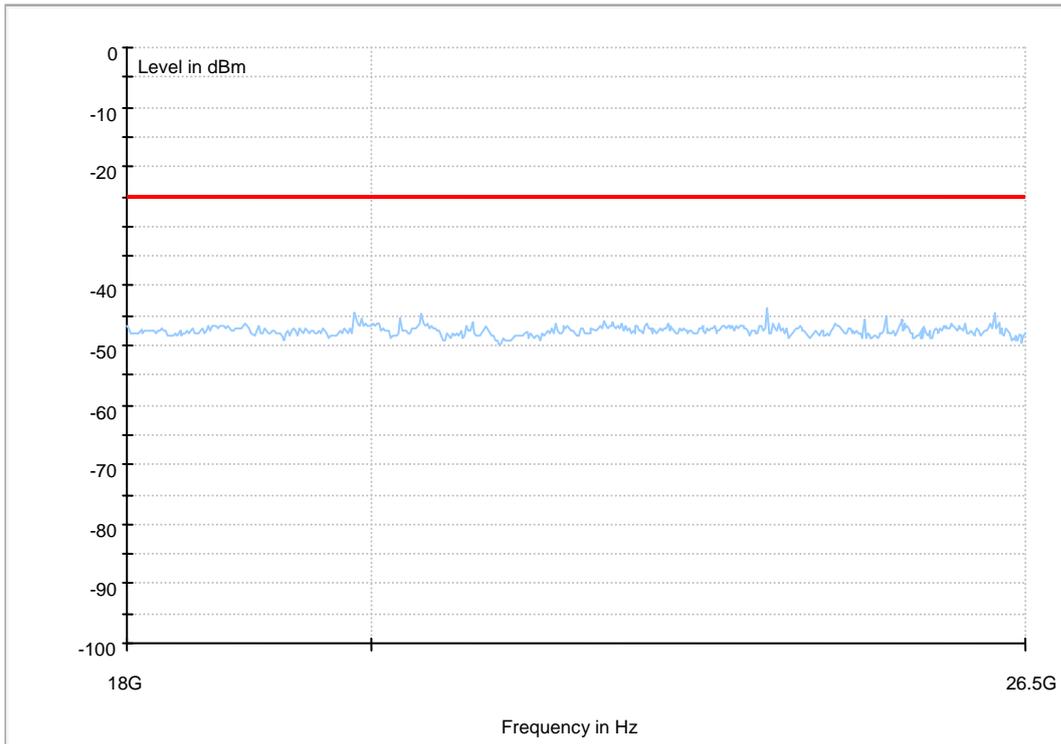


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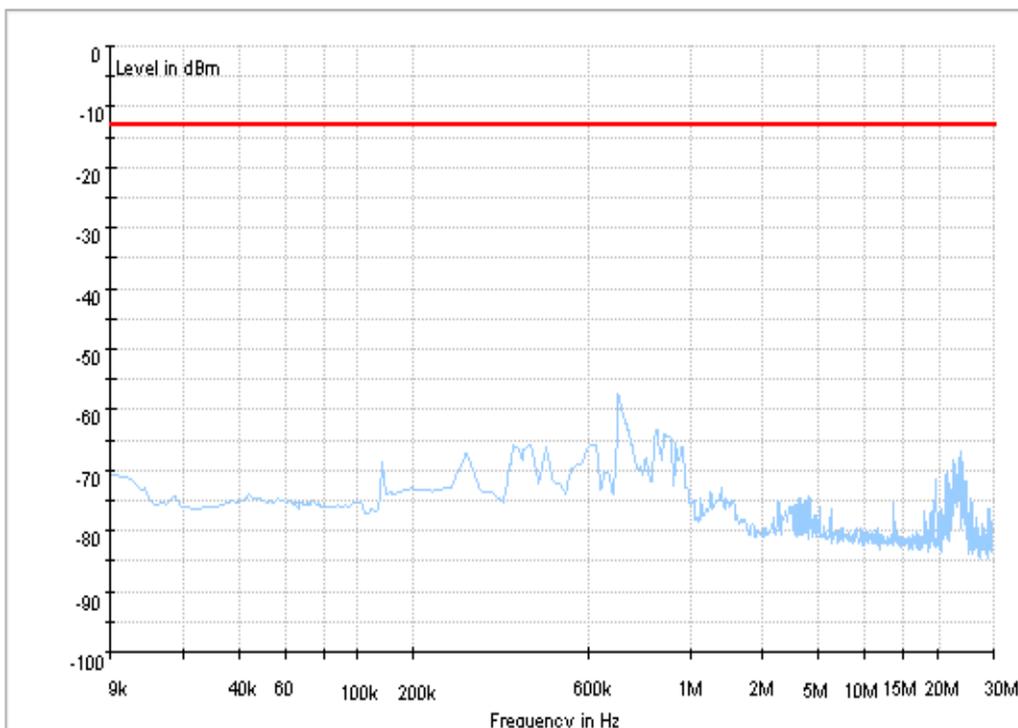
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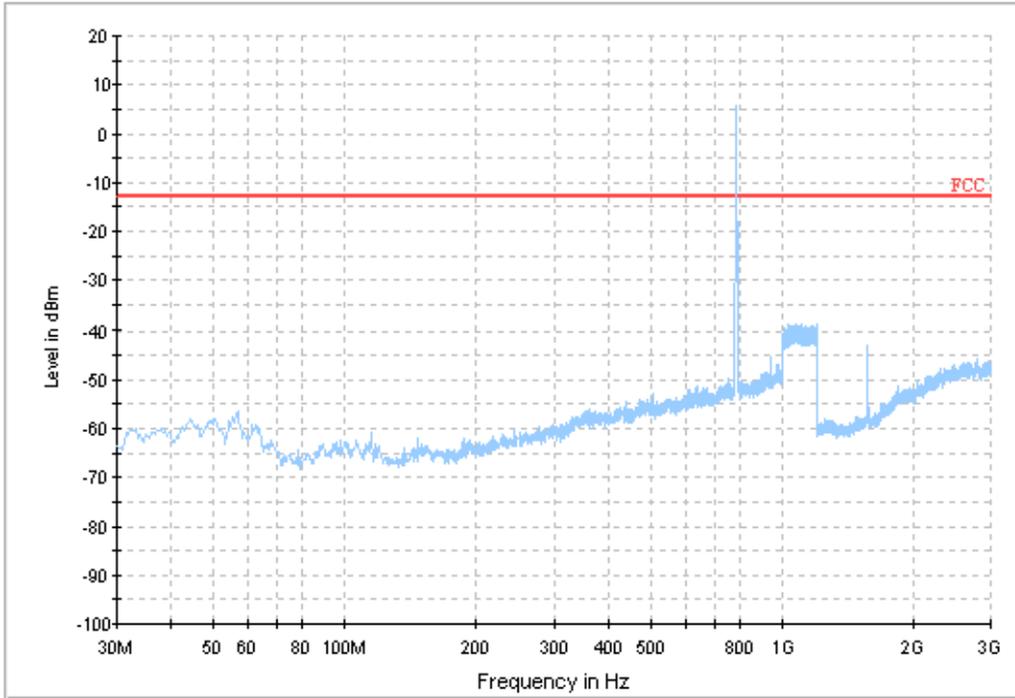


7.3.6 Test Band = BAND13

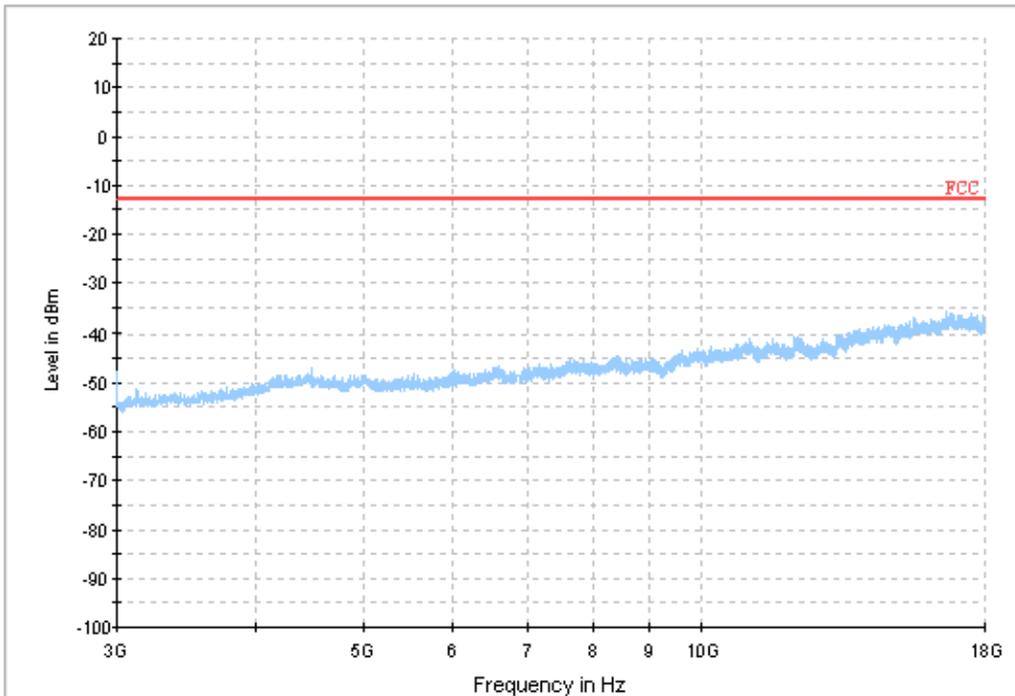
7.3.6.1 Test Bandwidth = 5



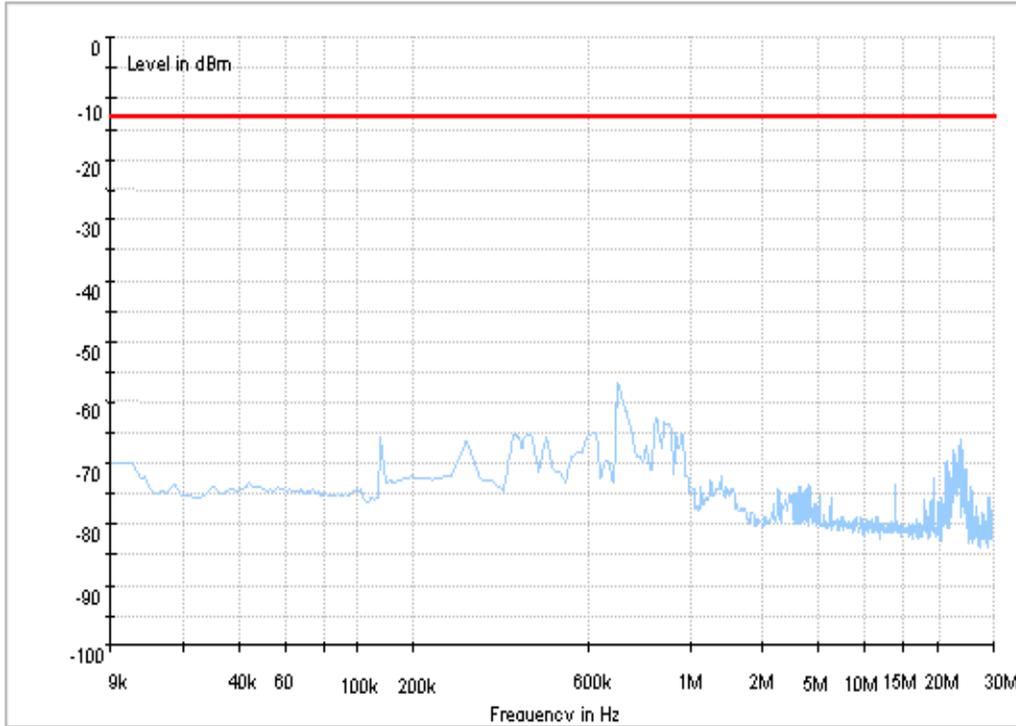
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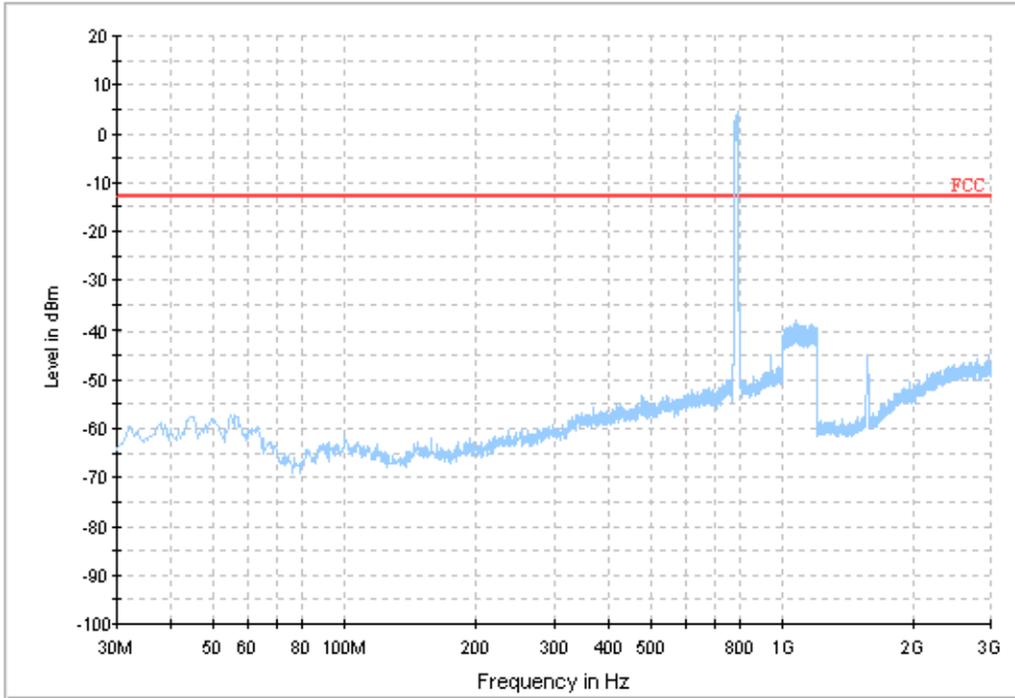
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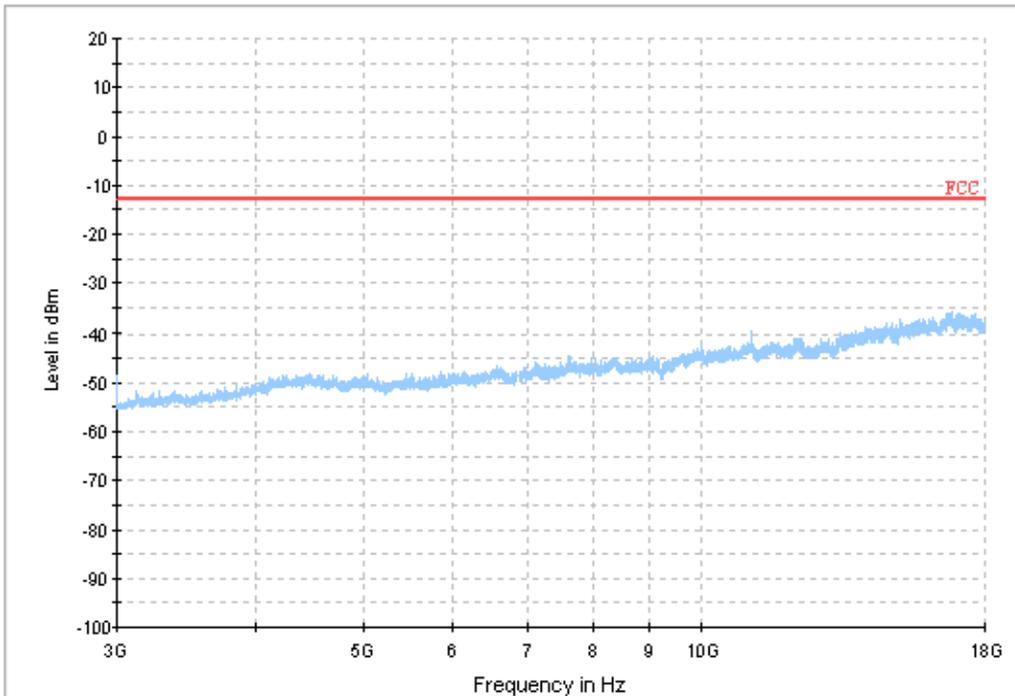
7.3.6.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

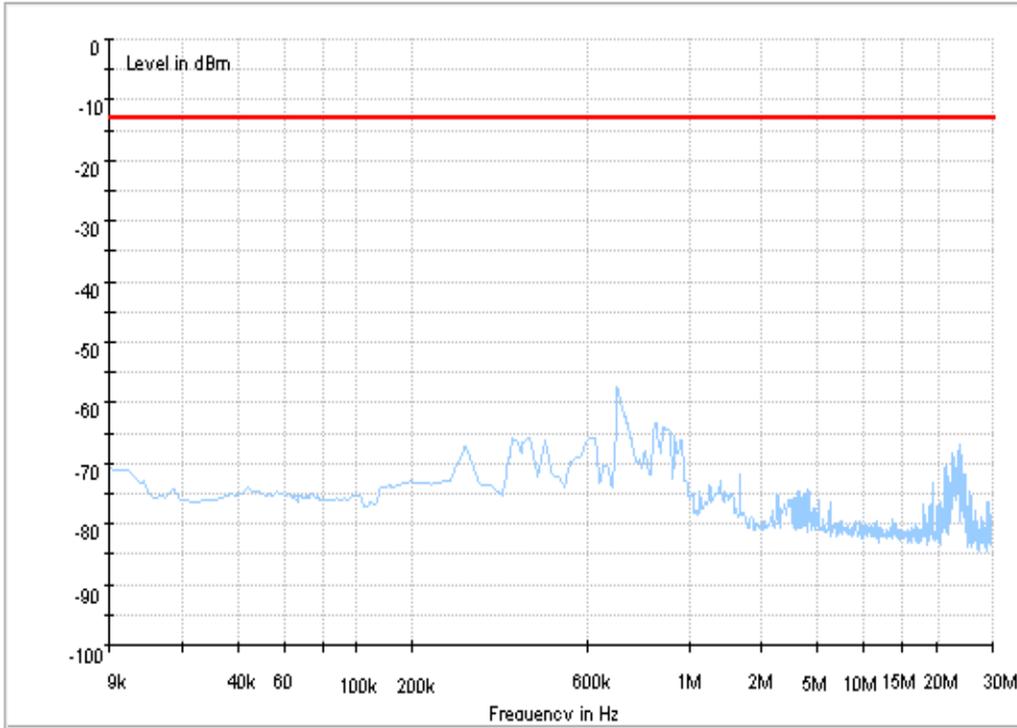


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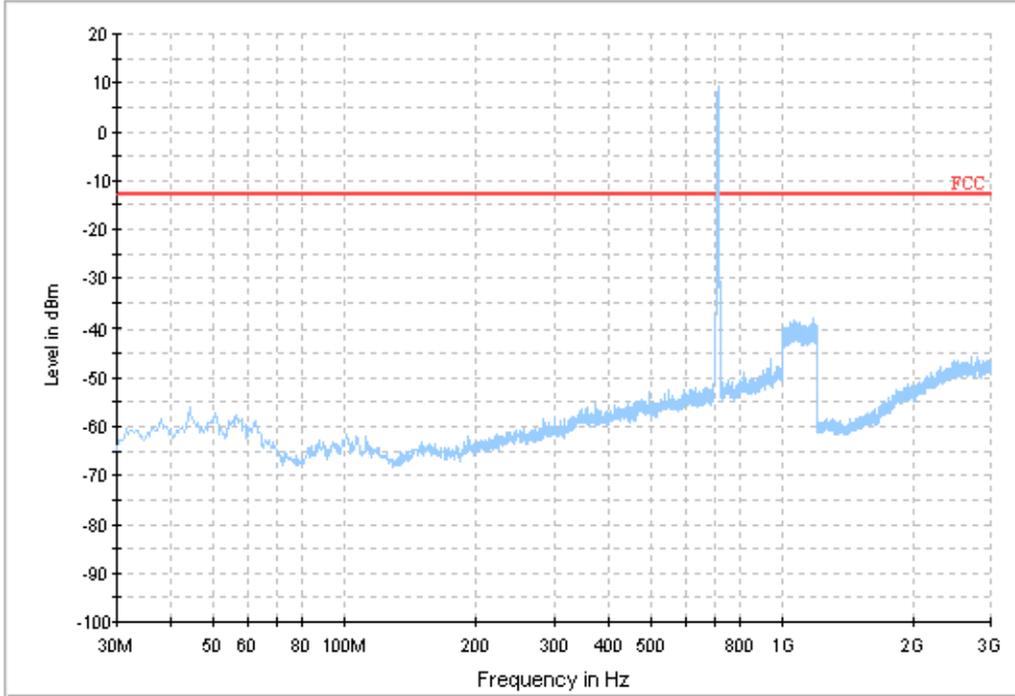


7.3.7 Test Band = BAND17

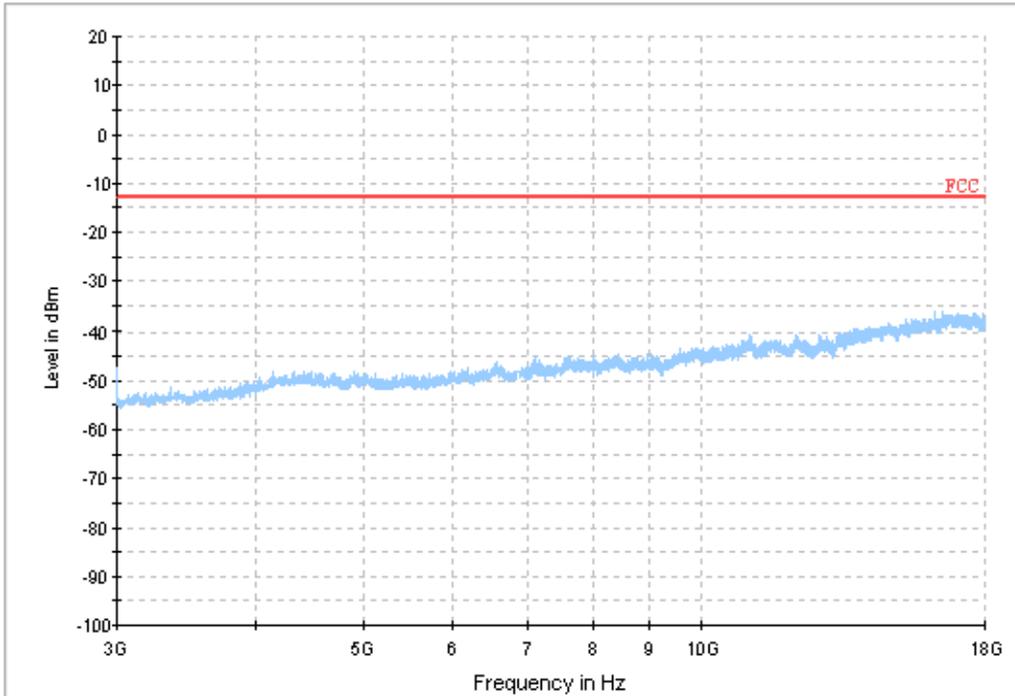
7.3.7.1 Test Bandwidth = 5



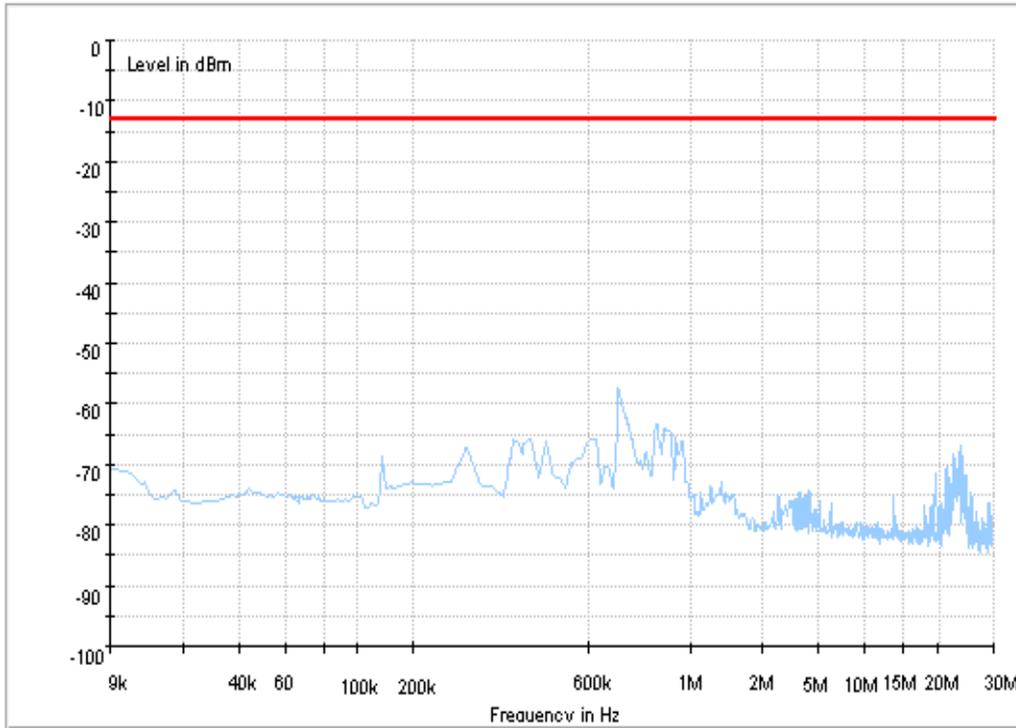
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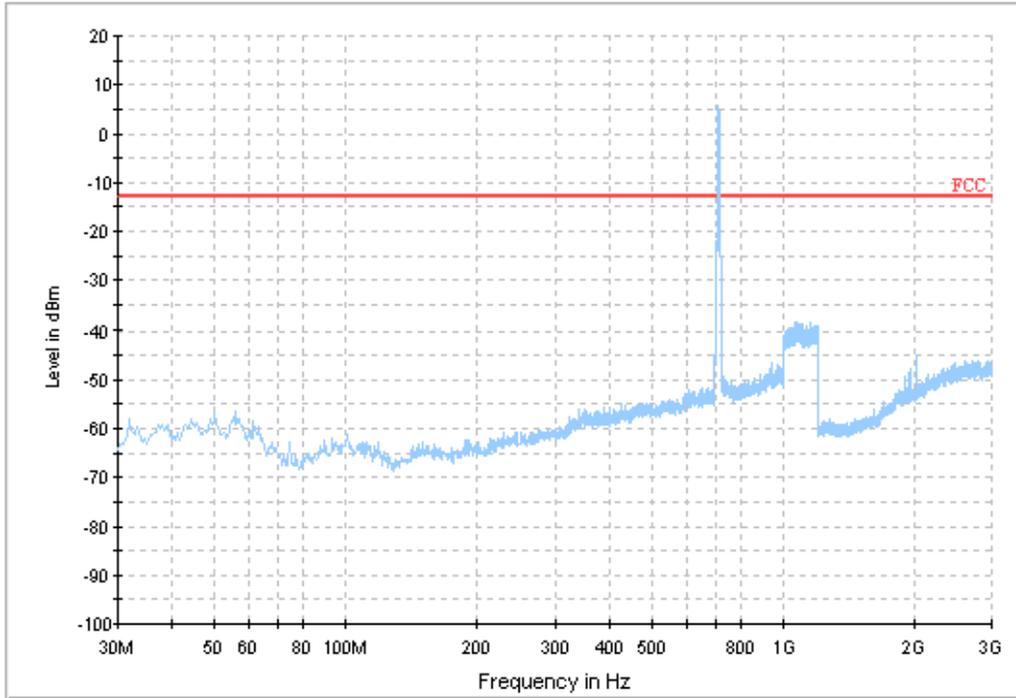
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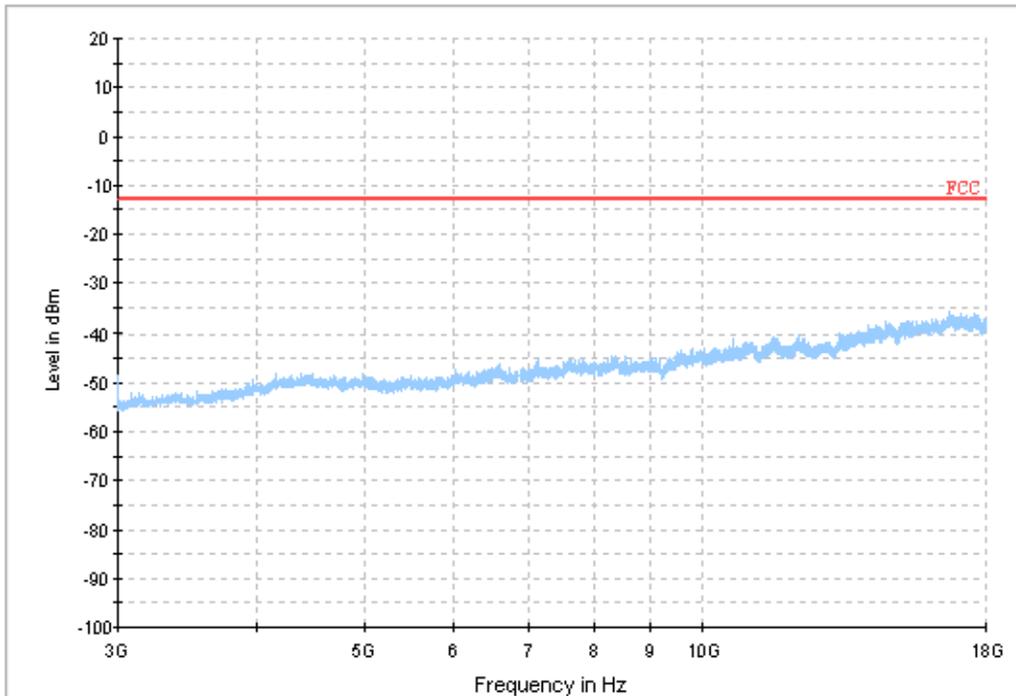
7.3.7.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-0.52	-.00063	PASS
				VN	2.07	.00251	PASS
				VH	0.84	.00102	PASS
		MCH	TN	VL	-1.61	-.00192	PASS
				VN	2.00	.00239	PASS
				VH	-4.71	-.00563	PASS
		HCH	TN	VL	12.66	.01492	PASS
				VN	13.17	.01552	PASS
				VH	12.59	.01483	PASS
	GSM/TM2	LCH	TN	VL	-0.16	-.00019	PASS
				VN	-5.20	-.00631	PASS
				VH	-1.00	-.00121	PASS
		MCH	TN	VL	-5.81	-.00694	PASS
				VN	-2.65	-.00317	PASS
				VH	-8.62	-.0103	PASS
		HCH	TN	VL	1.61	.0019	PASS
				VN	-4.78	-.00563	PASS
				VH	1.36	.0016	PASS
GSM1900	GSM/TM1	LCH	TN	VL	19.89	.01075	PASS
				VN	16.47	.0089	PASS
				VH	20.92	.01131	PASS
		MCH	TN	VL	28.80	.01532	PASS
				VN	13.04	.00694	PASS
				VH	23.70	.01261	PASS
	HCH	TN	VL	26.67	.01396	PASS	
			VN	23.44	.01227	PASS	
			VH	32.61	.01708	PASS	
	GSM/TM2	LCH	TN	VL	11.91	.00644	PASS
				VN	17.43	.00942	PASS
				VH	7.62	.00412	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	14.11	.00751	PASS
				VN	12.56	.00668	PASS
				VH	20.21	.01075	PASS
		HCH	TN	VL	25.44	.01332	PASS
				VN	30.15	.01579	PASS
				VH	22.63	.01185	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-3.03	-.00368	PASS
				-20	-1.03	-.00125	PASS
				-10	3.87	.0047	PASS
				0	1.74	.00211	PASS
				10	-4.00	-.00485	PASS
				20	-2.78	-.00337	PASS
				30	-0.06	-.00007	PASS
				40	-0.84	-.00102	PASS
				50	-0.90	-.00109	PASS
		MCH	VN	-30	1.94	.00232	PASS
				-20	4.26	.00509	PASS
				-10	-2.20	-.00263	PASS
				0	-1.49	-.00178	PASS
				10	3.49	.00417	PASS
				20	2.00	.00239	PASS
				30	0.58	.00069	PASS
				40	3.42	.00409	PASS
				50	1.03	.00123	PASS
		HCH	VN	-30	19.11	.02251	PASS
				-20	12.59	.01483	PASS
				-10	12.46	.01468	PASS
				0	12.66	.01492	PASS
				10	15.05	.01773	PASS
				20	11.62	.01369	PASS
				30	10.98	.01294	PASS
				40	10.72	.01263	PASS
				50	11.69	.01377	PASS
	GSM/TM2	LCH	VN	-30	-1.16	-.00141	PASS
				-20	-6.36	-.00772	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict						
				-10	-3.78	-.00459	PASS						
				0	-2.68	-.00325	PASS						
				10	0.90	.00109	PASS						
				20	2.97	.0036	PASS						
				30	-8.75	-.01062	PASS						
				40	-6.72	-.00815	PASS						
				50	-4.23	-.00513	PASS						
		MCH	VN			-30	-5.33	-.00637	PASS				
						-20	-0.26	-.00031	PASS				
						-10	-7.97	-.00953	PASS				
						0	-6.04	-.00722	PASS				
						10	-11.36	-.01358	PASS				
						20	-4.29	-.00513	PASS				
						30	-3.78	-.00452	PASS				
						40	-1.97	-.00235	PASS				
		HCH	VN			50	-2.81	-.00336	PASS				
						-30	-7.20	-.00848	PASS				
						-20	-1.78	-.0021	PASS				
						-10	-4.49	-.00529	PASS				
						0	-0.81	-.00095	PASS				
						10	-5.42	-.00639	PASS				
						20	-2.29	-.0027	PASS				
						30	-7.78	-.00917	PASS				
		GSM1900	GSM/TM1	LCH	VN					40	-0.81	-.00095	PASS
										50	2.20	.00259	PASS
										-30	20.99	.01134	PASS
										-20	22.21	.012	PASS
-10	11.88									.00642	PASS		
0	17.50									.00946	PASS		
10	15.05									.00813	PASS		
20	20.47			.01106	PASS								
30	12.53			.00677	PASS								
40	26.41			.01427	PASS								
50	22.73			.01229	PASS								
MCH	VN									-30	23.31	.0124	PASS
										-20	26.99	.01436	PASS
										-10	26.80	.01426	PASS
		0	15.30							.00814	PASS		
		10	17.31							.00921	PASS		
		20	30.93							.01645	PASS		



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
				30	29.83	.01587	PASS	
				40	16.14	.00859	PASS	
				50	20.79	.01106	PASS	
		HCH	VN	-30	33.38	.01748	PASS	
				-20	36.61	.01917	PASS	
				-10	29.44	.01542	PASS	
				0	32.09	.0168	PASS	
				10	27.38	.01434	PASS	
				20	32.35	.01694	PASS	
				30	30.41	.01592	PASS	
				40	33.58	.01758	PASS	
				50	26.02	.01362	PASS	
		GSM/TM2	LCH	VN	-30	14.37	.00777	PASS
					-20	10.40	.00562	PASS
					-10	5.29	.00286	PASS
	0				5.07	.00274	PASS	
	10				10.01	.00541	PASS	
	20				11.24	.00608	PASS	
	30				2.45	.00132	PASS	
	40				3.10	.00168	PASS	
	50				1.52	.00082	PASS	
	MCH		VN	-30	15.34	.00816	PASS	
				-20	4.65	.00247	PASS	
				-10	15.98	.0085	PASS	
				0	11.53	.00613	PASS	
				10	15.59	.00829	PASS	
				20	10.98	.00584	PASS	
	HCH	VN	30	15.92	.00847	PASS		
			40	13.40	.00713	PASS		
			50	11.14	.00593	PASS		
			-30	21.31	.01116	PASS		
			-20	14.56	.00762	PASS		
			-10	21.99	.01151	PASS		
			0	15.88	.00832	PASS		
			10	33.13	.01735	PASS		
			20	28.31	.01482	PASS		
30	24.70	.01293	PASS					
40	31.38	.01643	PASS					
50	25.47	.01334	PASS					



8.2 For UMTS

8.2.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	-3.13	-.00379	PASS
				VN	-4.20	-.00508	PASS
				VH	-2.24	-.00271	PASS
		MCH	TN	VL	-0.17	-.0002	PASS
				VN	-2.75	-.00329	PASS
				VH	0.41	.00049	PASS
		HCH	TN	VL	-3.31	-.00391	PASS
				VN	-3.10	-.00366	PASS
				VH	2.44	.00288	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-9.86	-.00532	PASS
				VN	-5.34	-.00288	PASS
				VH	-6.87	-.00371	PASS
		MCH	TN	VL	-3.85	-.00205	PASS
				VN	-7.58	-.00403	PASS
				VH	-5.29	-.00281	PASS
		HCH	TN	VL	-3.52	-.00185	PASS
				VN	-0.21	-.00011	PASS
				VH	-3.68	-.00193	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	-2.26	-0.00132	PASS
				VN	-4.10	-0.00239	PASS
				VH	-9.61	-0.00561	PASS
		MCH	TN	VL	-9.38	-0.00541	PASS
				VN	-8.91	-0.00514	PASS
				VH	-10.82	-0.00624	PASS
		HCH	TN	VL	0.69	0.00039	PASS
				VN	-0.63	-0.00036	PASS
				VH	-8.42	-0.0048	PASS

8.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	-5.97	-.00722	PASS
				-20	-5.75	-.00696	PASS
				-10	-4.32	-.00523	PASS
				0	-5.22	-.00632	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	-4.82	-.00583	PASS
				20	-3.77	-.00456	PASS
				30	-0.06	-.00007	PASS
				40	-5.40	-.00653	PASS
				50	-1.40	-.00169	PASS
		MCH	VN	-30	-0.41	-.00049	PASS
				-20	-2.96	-.00354	PASS
				-10	-3.98	-.00476	PASS
				0	-4.32	-.00516	PASS
				10	-2.55	-.00305	PASS
				20	-1.30	-.00155	PASS
				30	-1.59	-.0019	PASS
				40	1.68	.00201	PASS
				50	-6.91	-.00826	PASS
				HCH	VN	-30	-1.51
		-20	-3.86			-.00456	PASS
		-10	-4.06			-.0048	PASS
		0	1.13			.00133	PASS
		10	-0.23			-.00027	PASS
		20	-7.90			-.00933	PASS
		30	-0.76			-.0009	PASS
		40	-5.80			-.00685	PASS
		50	0.20	.00024	PASS		
		WCDMA1900	UMTS/TM1	LCH	VN	-30	-9.49
-20	-0.76					-.00041	PASS
-10	-8.38					-.00452	PASS
0	-5.17					-.00279	PASS
10	-2.50					-.00135	PASS
20	-2.53					-.00137	PASS
30	-3.36					-.00181	PASS
40	-4.99					-.00269	PASS
50	-10.04					-.00542	PASS
MCH	VN					-30	-7.84
				-20	-12.05	-.00641	PASS
				-10	-0.38	-.0002	PASS
				0	-10.65	-.00566	PASS
				10	-16.80	-.00894	PASS
				20	2.53	.00135	PASS
				30	-6.03	-.00321	PASS
				40	-3.65	-.00194	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	50	-6.03	-.00321	PASS
				-30	-12.04	-.00631	PASS
				-20	3.31	.00174	PASS
				-10	-8.38	-.00439	PASS
				0	-4.62	-.00242	PASS
				10	-7.25	-.0038	PASS
				20	-11.12	-.00583	PASS
				30	6.50	.00341	PASS
				40	-9.02	-.00473	PASS
				50	-4.39	-.0023	PASS
WCDMA1700	UMTS/TM1	LCH	VN	-30	-2.94	-0.00172	PASS
				-20	-2.84	-0.00166	PASS
				-10	-7.74	-0.00452	PASS
				0	-7.13	-0.00416	PASS
				10	-5.86	-0.00342	PASS
				20	-8.94	-0.00522	PASS
				30	-10.44	-0.0061	PASS
				40	-9.12	-0.00533	PASS
				50	-17.15	-0.01002	PASS
				MCH	VN	-30	-4.33
		-20	-9.11			-0.00526	PASS
		-10	-1.30			-0.00075	PASS
		0	-11.09			-0.0064	PASS
		10	1.69			0.00098	PASS
		20	-10.65			-0.00615	PASS
		30	-6.59			-0.0038	PASS
		40	-6.09			-0.00351	PASS
		50	-2.67			-0.00154	PASS
		HCH	VN			-30	-4.43
				-20	-5.71	-0.00326	PASS
				-10	-16.31	-0.00931	PASS
				0	-10.59	-0.00604	PASS
				10	-15.03	-0.00858	PASS
				20	-3.17	-0.00181	PASS
				30	-8.01	-0.00457	PASS
				40	-11.87	-0.00677	PASS
				50	-22.49	-0.01283	PASS

8.3 For LTE

8.3.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND2	LTE/TM1	1.4	LCH	TN	VL	4.79	.00259	PASS
					VN	4.36	.00236	PASS
					VH	-10.54	-.0057	PASS
			MCH	TN	VL	-3.99	-.00212	PASS
					VN	13.26	.00705	PASS
					VH	-0.31	-.00016	PASS
			HCH	TN	VL	-18.75	-.00982	PASS
					VN	1.63	.00085	PASS
					VH	-11.10	-.00581	PASS
		3	LCH	TN	VL	14.98	.00809	PASS
					VN	4.51	.00244	PASS
					VH	5.58	.00301	PASS
			MCH	TN	VL	6.81	.00362	PASS
					VN	11.26	.00599	PASS
					VH	-14.41	-.00766	PASS
			HCH	TN	VL	-9.17	-.0048	PASS
					VN	-9.43	-.00494	PASS
					VH	-6.51	-.00341	PASS
		5	LCH	TN	VL	0.97	.00052	PASS
					VN	-3.93	-.00212	PASS
					VH	4.78	.00258	PASS
			MCH	TN	VL	10.63	.00565	PASS
					VN	-4.75	-.00253	PASS
					VH	7.20	.00383	PASS
			HCH	TN	VL	10.11	.0053	PASS
					VN	-0.19	-.0001	PASS
					VH	4.88	.00256	PASS
		10	LCH	TN	VL	-3.33	-.0018	PASS
					VN	-3.81	-.00205	PASS
					VH	-0.62	-.00033	PASS
MCH	TN		VL	-1.50	-.0008	PASS		
			VN	-6.65	-.00354	PASS		
			VH	0.16	.00009	PASS		
HCH	TN		VL	-1.66	-.00087	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
		15	LCH	TN	VN	16.22	.00851	PASS	
					VH	14.41	.00756	PASS	
					VL	-1.57	-.00085	PASS	
			VN	-8.43	-.00454	PASS			
			VH	-10.54	-.00567	PASS			
			VL	-7.60	-.00404	PASS			
		MCH	TN	VN	2.53	.00135	PASS		
				VH	-2.00	-.00106	PASS		
				VL	7.82	.00411	PASS		
		HCH	TN	VN	10.34	.00543	PASS		
				VH	3.71	.00195	PASS		
				VL	7.82	.00411	PASS		
		20	LCH	TN	VL	-4.21	-.00226	PASS	
					VN	-10.81	-.00581	PASS	
					VH	-3.23	-.00174	PASS	
			MCH	TN	VL	15.88	.00845	PASS	
					VN	-0.82	-.00044	PASS	
					VH	4.41	.00235	PASS	
			HCH	TN	VL	2.66	.0014	PASS	
					VN	-2.42	-.00127	PASS	
					VH	-4.19	-.00221	PASS	
		LTE/TM2	1.4	LCH	TN	VL	-0.33	-.00018	PASS
						VN	8.17	.00441	PASS
						VH	12.97	.00701	PASS
	MCH			TN	VL	8.71	.00463	PASS	
					VN	-20.91	-.01112	PASS	
					VH	11.01	.00586	PASS	
	HCH			TN	VL	-9.47	-.00496	PASS	
					VN	7.42	.00389	PASS	
					VH	15.36	.00804	PASS	
	3		LCH	TN	VL	-5.46	-.00295	PASS	
					VN	-8.21	-.00443	PASS	
					VH	3.91	.00211	PASS	
			MCH	TN	VL	9.81	.00522	PASS	
					VN	8.94	.00476	PASS	
					VH	-7.25	-.00386	PASS	
			HCH	TN	VL	-1.99	-.00104	PASS	
					VN	17.61	.00923	PASS	
					VH	5.19	.00272	PASS	
	5	LCH	TN	VL	3.83	.00207	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	-6.52	-.00352	PASS
					VH	-0.20	-.00011	PASS
					VL	-0.06	-.00003	PASS
			MCH	TN	VN	2.62	.00139	PASS
					VH	-3.28	-.00174	PASS
					VL	-0.96	-.0005	PASS
			HCH	TN	VN	8.20	.0043	PASS
					VH	-9.00	-.00472	PASS
					VL	-8.75	-.00472	PASS
		10	LCH	TN	VN	4.63	.0025	PASS
					VH	-1.09	-.00059	PASS
					VL	5.12	.00272	PASS
			MCH	TN	VN	6.37	.00339	PASS
					VH	4.65	.00247	PASS
					VL	-7.07	-.00371	PASS
			HCH	TN	VN	-5.91	-.0031	PASS
					VH	-5.11	-.00268	PASS
					VL	-14.08	-.00758	PASS
		15	LCH	TN	VN	2.12	.00114	PASS
					VH	-5.14	-.00277	PASS
					VL	0.69	.00037	PASS
			MCH	TN	VN	-4.68	-.00249	PASS
					VH	-9.14	-.00486	PASS
					VL	-3.25	-.00171	PASS
			HCH	TN	VN	-10.53	-.00553	PASS
					VH	-0.62	-.00033	PASS
					VL	-3.79	-.00204	PASS
		20	LCH	TN	VN	-8.33	-.00448	PASS
					VH	1.26	.00068	PASS
					VL	-1.90	-.00101	PASS
MCH	TN		VN	-1.56	-.00083	PASS		
			VH	0.31	.00016	PASS		
			VL	-17.04	-.00897	PASS		
HCH	TN		VN	-0.39	-.00021	PASS		
			VH	-8.98	-.00473	PASS		
			VL	-2.82	-.00165	PASS		
BAND4	LTE/TM1	1.4	LCH	TN	VN	-1.70	-.00099	PASS
					VH	-0.13	-.00008	PASS
					VL	-10.43	-.00602	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			HCH	TN	VN	4.79	.00276	PASS	
					VH	-4.03	-.00233	PASS	
					VL	8.31	.00474	PASS	
					VN	-22.57	-.01287	PASS	
					VH	-12.13	-.00691	PASS	
					VN	-22.57	-.01287	PASS	
		3	LCH	TN	VL	-4.73	-.00276	PASS	
					VN	3.22	.00188	PASS	
					VH	6.62	.00387	PASS	
			MCH	TN	VL	4.65	.00268	PASS	
					VN	26.72	.01542	PASS	
					VH	6.22	.00359	PASS	
			HCH	TN	VL	-8.50	-.00485	PASS	
					VN	-1.83	-.00104	PASS	
					VH	9.44	.00538	PASS	
			5	LCH	TN	VL	10.20	.00596	PASS
						VN	-14.58	-.00851	PASS
						VH	-0.10	-.00006	PASS
		MCH		TN	VL	-14.73	-.0085	PASS	
					VN	-21.06	-.01216	PASS	
					VH	-4.18	-.00241	PASS	
		HCH		TN	VL	1.37	.00078	PASS	
					VN	4.99	.00285	PASS	
					VH	13.23	.00755	PASS	
		10	LCH	TN	VL	-0.16	-.00009	PASS	
					VN	-14.61	-.00852	PASS	
					VH	-4.98	-.0029	PASS	
			MCH	TN	VL	-1.50	-.00087	PASS	
					VN	4.71	.00272	PASS	
					VH	2.85	.00165	PASS	
			HCH	TN	VL	0.09	.00005	PASS	
					VN	9.14	.00522	PASS	
					VH	-2.29	-.00131	PASS	
		15	LCH	TN	VL	-10.71	-.00624	PASS	
					VN	1.69	.00098	PASS	
					VH	1.19	.00069	PASS	
			MCH	TN	VL	-9.66	-.00558	PASS	
					VN	1.16	.00067	PASS	
					VH	-8.25	-.00476	PASS	
		HCH	TN	VL	-4.79	-.00274	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		20	LCH	TN	VN	-7.50	-.00429	PASS		
					VH	-7.90	-.00452	PASS		
					VL	-0.10	-.00006	PASS		
			MCH	TN	VN	-6.69	-.00389	PASS		
					VH	-3.19	-.00185	PASS		
					VL	-16.48	-.00951	PASS		
		HCH	TN	VN	-3.68	-.00212	PASS			
				VH	-9.86	-.00569	PASS			
				VL	-0.46	-.00026	PASS			
			LTE/TM2	1.4	LCH	TN	VL	-1.39	-.00081	PASS
							VN	-16.97	-.00992	PASS
							VH	-15.94	-.00932	PASS
					MCH	TN	VL	-9.07	-.00524	PASS
							VN	5.69	.00328	PASS
							VH	3.52	.00203	PASS
				HCH	TN	VL	-17.40	-.00992	PASS	
						VN	1.27	.00072	PASS	
						VH	-8.34	-.00475	PASS	
	3			LCH	TN	VL	-10.10	-.0059	PASS	
						VN	-6.91	-.00404	PASS	
						VH	5.41	.00316	PASS	
				MCH	TN	VL	-12.39	-.00715	PASS	
						VN	-2.63	-.00152	PASS	
						VH	-17.57	-.01014	PASS	
	HCH			TN	VL	3.52	.00201	PASS		
					VN	4.88	.00278	PASS		
					VH	-6.28	-.00358	PASS		
	5	LCH	TN	VL	-12.17	-.00711	PASS			
				VN	-8.63	-.00504	PASS			
				VH	2.17	.00127	PASS			
		MCH	TN	VL	1.97	.00114	PASS			
				VN	1.75	.00101	PASS			
				VH	3.81	.0022	PASS			
	HCH	TN	VL	-4.09	-.00233	PASS				
			VN	-15.99	-.00912	PASS				
			VH	5.05	.00288	PASS				
	10	LCH	TN	VL	-11.26	-.00657	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VN	-0.69	-.0004	PASS
					VH	-6.21	-.00362	PASS
					VL	2.82	.00163	PASS
					VN	-2.65	-.00153	PASS
					VH	-6.11	-.00353	PASS
					VL	7.12	.00407	PASS
			HCH	TN	VN	-4.16	-.00238	PASS
					VH	-6.17	-.00353	PASS
					VL	5.76	.00335	PASS
					VN	9.74	.00567	PASS
					VH	1.09	.00063	PASS
					VL	-9.51	-.00549	PASS
		MCH	TN	VN	-5.16	-.00298	PASS	
				VH	-9.44	-.00545	PASS	
				VL	16.68	.00955	PASS	
				VN	4.45	.00255	PASS	
				VH	1.14	.00065	PASS	
				VL	7.60	.00442	PASS	
		HCH	TN	VN	10.70	.00622	PASS	
				VH	11.09	.00645	PASS	
				VL	-3.49	-.00201	PASS	
				VN	0.31	.00018	PASS	
				VH	6.79	.00392	PASS	
				VL	-6.74	-.00386	PASS	
MCH	TN	VN	-2.69	-.00154	PASS			
		VH	0.46	.00026	PASS			
		VL	-5.18	-.00628	PASS			
		VN	8.35	.01012	PASS			
		VH	-12.04	-.0146	PASS			
		VL	-5.46	-.00653	PASS			
HCH	TN	VN	22.17	.0265	PASS			
		VH	-15.74	-.01882	PASS			
		VL	14.41	.01699	PASS			
		VN	-0.43	-.00051	PASS			
		VH	-4.79	-.00565	PASS			
		VL	7.18	.0087	PASS			
MCH	TN	VN	-0.92	-.00111	PASS			
		VH	-4.94	-.00598	PASS			
		VL	-12.72	-.01521	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	-7.74	-.00925	PASS	
					VH	-14.36	-.01717	PASS	
					VL	-3.63	-.00428	PASS	
			HCH	TN	VN	11.82	.01395	PASS	
					VH	3.18	.00375	PASS	
					VL	12.25	.01482	PASS	
		5	LCH	TN	VN	10.26	.01241	PASS	
					VH	10.17	.0123	PASS	
					VL	6.44	.0077	PASS	
			MCH	TN	VN	-9.23	-.01103	PASS	
					VH	7.74	.00925	PASS	
					VL	3.76	.00444	PASS	
		10	HCH	TN	VN	-1.76	-.00208	PASS	
					VH	3.69	.00436	PASS	
					VL	-5.32	-.00642	PASS	
			LCH	TN	VN	-5.64	-.0068	PASS	
					VH	-4.11	-.00496	PASS	
					VL	9.70	.0116	PASS	
		10	MCH	TN	VN	-0.66	-.00079	PASS	
					VH	0.51	.00061	PASS	
					VL	4.09	.00485	PASS	
			HCH	TN	VN	8.77	.01039	PASS	
					VH	8.25	.00977	PASS	
					VL	8.48	.01028	PASS	
		LTE/TM2	1.4	LCH	TN	VN	2.73	.00331	PASS
						VH	3.71	.0045	PASS
						VL	15.86	.01896	PASS
				MCH	TN	VN	3.58	.00428	PASS
						VH	-1.54	-.00184	PASS
						VL	6.61	.00779	PASS
				HCH	TN	VN	-11.62	-.0137	PASS
						VH	2.40	.00283	PASS
						VL	-6.88	-.00833	PASS
			3	LCH	TN	VN	-1.63	-.00197	PASS
						VH	2.30	.00279	PASS
						VL	-1.53	-.00183	PASS
				MCH	TN	VN	5.38	.00643	PASS
						VH	7.74	.00925	PASS
						VL	-7.77	-.00917	PASS
			HCH	TN	VN	-7.74	-.00925	PASS	
					VH	-14.36	-.01717	PASS	
					VL	-3.63	-.00428	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
		5	LCH	TN	VN	3.49	.00412	PASS		
					VH	17.27	.02038	PASS		
					VL	2.09	.00253	PASS		
			VN	-3.29	-.00398	PASS				
			VH	-0.69	-.00083	PASS				
			VL	5.85	.00699	PASS				
		MCH	TN	VN	4.58	.00548	PASS			
				VH	2.96	.00354	PASS			
				VL	11.56	.01366	PASS			
		HCH	TN	VN	2.32	.00274	PASS			
				VH	3.59	.00424	PASS			
				VL	-4.56	-.0055	PASS			
		10	LCH	TN	VN	-3.92	-.00473	PASS		
					VH	-0.49	-.00059	PASS		
					VL	17.18	.02054	PASS		
			MCH	TN	VN	2.79	.00334	PASS		
					VH	4.23	.00506	PASS		
					VL	11.22	.01329	PASS		
			HCH	TN	VN	-4.39	-.0052	PASS		
					VH	-8.15	-.00966	PASS		
					VL	-15.79	-.00631	PASS		
		BAND7	LTE/TM1	5	LCH	TN	VN	-8.75	-.0035	PASS
							VH	-21.92	-.00876	PASS
							VL	-13.12	-.00518	PASS
MCH	TN				VN	9.01	.00355	PASS		
					VH	-4.63	-.00183	PASS		
					VL	-6.92	-.0027	PASS		
HCH	TN				VN	-9.97	-.00388	PASS		
					VH	3.95	.00154	PASS		
					VL	4.71	.00188	PASS		
10	LCH			TN	VN	-16.52	-.00659	PASS		
					VH	-0.31	-.00012	PASS		
					VL	-9.07	-.00358	PASS		
	MCH			TN	VN	-16.48	-.0065	PASS		
					VH	-4.42	-.00174	PASS		
					VL	-18.18	-.00709	PASS		
	HCH			TN	VN	-16.77	-.00654	PASS		
					VH	-10.74	-.00419	PASS		
					VL	11.36	.00453	PASS		
15	LCH			TN	VL	11.36	.00453	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	15.64	.00624	PASS	
					VH	-1.76	-.0007	PASS	
					VL	-14.08	-.00555	PASS	
			MCH	TN	VN	-1.56	-.00062	PASS	
					VH	-8.13	-.00321	PASS	
					VL	-5.72	-.00223	PASS	
			HCH	TN	VN	9.23	.0036	PASS	
					VH	-19.38	-.00756	PASS	
					VL	-13.78	-.00549	PASS	
		20	LCH	TN	VN	-4.46	-.00178	PASS	
					VH	-7.32	-.00292	PASS	
					VL	-10.27	-.00405	PASS	
			MCH	TN	VN	-2.35	-.00093	PASS	
					VH	-6.07	-.00239	PASS	
					VL	6.58	.00257	PASS	
			HCH	TN	VN	-2.22	-.00087	PASS	
					VH	-6.29	-.00246	PASS	
					VL	-21.82	-.00872	PASS	
		LTE/TM2	5	LCH	TN	VN	-16.75	-.00669	PASS
						VH	-13.90	-.00555	PASS
						VL	-16.98	-.0067	PASS
	MCH			TN	VN	-18.00	-.0071	PASS	
					VH	-18.60	-.00734	PASS	
					VL	-8.11	-.00316	PASS	
	HCH			TN	VN	-2.32	-.0009	PASS	
					VH	-3.23	-.00126	PASS	
					VL	2.36	.00094	PASS	
	10			LCH	TN	VN	-11.33	-.00452	PASS
						VH	-18.20	-.00727	PASS
						VL	2.00	.00079	PASS
			MCH	TN	VN	-9.06	-.00357	PASS	
					VH	-22.70	-.00895	PASS	
					VL	-17.21	-.00671	PASS	
	HCH		TN	VN	1.60	.00062	PASS		
				VH	-12.85	-.00501	PASS		
				VL	-5.38	-.00215	PASS		
	15		LCH	TN	VN	-2.46	-.00098	PASS	
					VH	-8.38	-.00334	PASS	
					VL	-7.85	-.0031	PASS	
	MCH	TN	VN	-7.85	-.0031	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
			HCH	TN	VN	-3.75	-.00148	PASS		
					VH	-15.55	-.00613	PASS		
					VL	-5.78	-.00226	PASS		
			LCH	TN	VN	2.53	.00099	PASS		
					VH	1.95	.00076	PASS		
					VL	-0.47	-.00019	PASS		
		20	MCH	TN	VN	3.82	.00152	PASS		
					VH	-0.01	0	PASS		
					VL	-15.56	-.00614	PASS		
			HCH	TN	VN	1.02	.0004	PASS		
					VH	-8.45	-.00333	PASS		
					VL	-10.40	-.00406	PASS		
		BAND7	LTE/TM1	5	LCH	TN	VN	-6.58	-.00263	PASS
							VH	-7.81	-.00312	PASS
							VL	2.03	.00081	PASS
					MCH	TN	VN	-7.64	-.00301	PASS
							VH	4.22	.00166	PASS
							VL	-3.29	-.0013	PASS
HCH	TN				VN	-18.01	-.00701	PASS		
					VH	7.28	.00284	PASS		
					VL	-7.48	-.00291	PASS		
10	LCH			TN	VN	-19.00	-.00758	PASS		
					VH	13.52	.0054	PASS		
					VL	-3.73	-.00149	PASS		
	MCH			TN	VN	0.63	.00025	PASS		
					VH	-7.38	-.00291	PASS		
					VL	-13.50	-.00533	PASS		
HCH	TN			VN	-15.71	-.00612	PASS			
				VH	-3.48	-.00136	PASS			
				VL	-5.85	-.00228	PASS			
LTE/TM2	5	LCH	TN	VN	-20.34	-.00813	PASS			
				VH	-13.12	-.00524	PASS			
				VL	-10.40	-.00416	PASS			
		MCH	TN	VN	-17.57	-.00693	PASS			
				VH	-17.08	-.00674	PASS			
				VL	0.73	.00029	PASS			
	HCH	TN	VL	-8.71	-.00339	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					VN	5.41	.00211	PASS		
					VH	-8.85	-.00345	PASS		
					VL	-4.81	-.00192	PASS		
			LCH	TN	VN	-6.52	-.0026	PASS		
					VH	-7.08	-.00283	PASS		
					VL	-7.60	-.003	PASS		
		MCH	TN	VN	-2.12	-.00084	PASS			
				VH	-9.68	-.00382	PASS			
				VL	-7.68	-.00299	PASS			
		HCH	TN	VN	-5.61	-.00219	PASS			
				VH	-4.13	-.00161	PASS			
				VL	12.40	.01591	PASS			
		BAND13	LTE/TM1	5	LCH	TN	VN	10.40	.01334	PASS
							VH	-0.11	-.00014	PASS
							VL	11.94	.01527	PASS
					MCH	TN	VN	14.48	.01852	PASS
							VH	13.42	.01716	PASS
							VL	17.19	.02191	PASS
HCH	TN			VN	7.75	.00988	PASS			
				VH	-7.41	-.00945	PASS			
				VL	-8.41	-.01075	PASS			
10	LCH			TN	VN	-1.76	-.00225	PASS		
					VH	-10.57	-.01352	PASS		
					VL	-6.54	-.00836	PASS		
	MCH			TN	VN	-3.53	-.00451	PASS		
					VH	-22.87	-.02925	PASS		
					VL	-4.88	-.00624	PASS		
HCH	TN			VN	-22.09	-.02825	PASS			
				VH	1.37	.00175	PASS			
				VL	4.91	.0063	PASS			
LTE/TM2	5		LCH	TN	VN	9.46	.01214	PASS		
					VH	11.63	.01492	PASS		
					VL	8.14	.01041	PASS		
			MCH	TN	VN	17.11	.02188	PASS		
					VH	6.69	.00855	PASS		
					VL	10.99	.01401	PASS		
	HCH	TN	VN	5.62	.00716	PASS				
			VH	5.98	.00762	PASS				
			VL	13.25	.01694	PASS				
	10	LCH	TN	VL	13.25	.01694	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					VN	14.63	.01871	PASS			
					VH	0.09	.00012	PASS			
					MCH	TN	VL	7.78	.00995	PASS	
							VN	-7.40	-.00946	PASS	
					HCH	TN	VH	0.34	.00043	PASS	
							VL	7.62	.00974	PASS	
			BAND17	LTE/TM1	5	LCH	TN	VL	-2.68	-.00379	PASS
								VN	9.57	.01355	PASS
								VH	10.93	.01547	PASS
						MCH	TN	VL	16.42	.02313	PASS
								VN	4.63	.00652	PASS
								VH	12.16	.01713	PASS
						HCH	TN	VL	16.67	.02336	PASS
								VN	4.55	.00638	PASS
VH	-5.04	-.00706	PASS								
10	LCH	TN	VL			4.36	.00615	PASS			
			VN			5.29	.00746	PASS			
			VH			2.79	.00394	PASS			
	MCH	TN	VL		4.94	.00696	PASS				
			VN		0.93	.00131	PASS				
			VH		6.45	.00908	PASS				
HCH	TN	VL	5.09		.00716	PASS					
		VN	5.46		.00768	PASS					
		VH	6.42		.00903	PASS					
LTE/TM2	5	LCH	TN	VL	10.30	.01458	PASS				
				VN	9.71	.01374	PASS				
				VH	7.62	.01079	PASS				
		MCH	TN	VL	11.40	.01606	PASS				
				VN	3.19	.00449	PASS				
				VH	16.69	.02351	PASS				
		HCH	TN	VL	21.40	.02999	PASS				
				VN	2.60	.00364	PASS				
				VH	-3.32	-.00465	PASS				
		10	LCH	TN	VL	5.31	.00749	PASS			
					VN	2.07	.00292	PASS			
					VH	3.02	.00426	PASS			
	MCH		TN	VL	1.99	.0028	PASS				

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					VN	16.94	.02386	PASS	
					VH	4.12	.0058	PASS	
			HCH		TN	VL	3.82	.00537	PASS
					VN	6.12	.00861	PASS	
					VH	15.46	.02174	PASS	

8.3.2 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
BAND2	LTE/TM1	1.4	LCH	VN	-30	20.33	.01099	PASS	
					-20	-6.31	-.00341	PASS	
					-10	-17.17	-.00928	PASS	
					0	-9.68	-.00523	PASS	
					10	14.36	.00776	PASS	
					20	-7.70	-.00416	PASS	
					30	12.76	.00689	PASS	
					40	-12.00	-.00648	PASS	
			50		19.53	.01055	PASS		
			MCH		-30	20.17	.01073	PASS	
					-20	-10.67	-.00568	PASS	
					-10	-0.16	-.00009	PASS	
					0	5.12	.00272	PASS	
					10	-2.90	-.00154	PASS	
					20	11.53	.00613	PASS	
					30	16.47	.00876	PASS	
					40	21.39	.01138	PASS	
			50		14.35	.00763	PASS		
			HCH		VN	-30	-4.63	-.00242	PASS
						-20	14.85	.00778	PASS
						-10	-12.06	-.00632	PASS
						0	-4.11	-.00215	PASS
						10	12.26	.00642	PASS
						20	-17.42	-.00912	PASS
		30		-9.70		-.00508	PASS		
		40		-22.37		-.01172	PASS		
		50	-2.76	-.00145	PASS				
		3	LCH	VN	-30	0.03	.00002	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	2.39	.00129	PASS	
					-10	12.16	.00657	PASS	
					0	4.62	.0025	PASS	
					10	-5.99	-.00324	PASS	
					20	-0.20	-.00011	PASS	
					30	2.16	.00117	PASS	
					40	8.18	.00442	PASS	
					50	4.84	.00261	PASS	
			MCH	VN	-30	14.53	.00773	PASS	
					-20	11.07	.00589	PASS	
					-10	1.53	.00081	PASS	
					0	0.57	.0003	PASS	
					10	2.73	.00145	PASS	
					20	11.57	.00615	PASS	
					30	10.14	.00539	PASS	
					40	-3.20	-.0017	PASS	
			HCH	VN	-30	-3.25	-.0017	PASS	
					-20	3.56	.00187	PASS	
					-10	9.38	.00491	PASS	
					0	-1.72	-.0009	PASS	
					10	5.74	.00301	PASS	
					20	-0.82	-.00043	PASS	
					30	27.51	.01441	PASS	
					40	-18.75	-.00982	PASS	
			5	LCH	VN	-30	-13.48	-.00728	PASS
						-20	-7.75	-.00418	PASS
						-10	1.79	.00097	PASS
						0	1.92	.00104	PASS
		10				-0.11	-.00006	PASS	
		20				-10.19	-.0055	PASS	
		30				-15.16	-.00818	PASS	
		40				-9.80	-.00529	PASS	
		50		-0.04	-.00002	PASS			
		MCH		VN	-30	3.72	.00198	PASS	
					-20	-1.76	-.00094	PASS	
					-10	3.95	.0021	PASS	
			0		-0.66	-.00035	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					10	-3.56	-.00189	PASS	
					20	2.47	.00131	PASS	
					30	-8.77	-.00466	PASS	
					40	-10.10	-.00537	PASS	
					50	-3.05	-.00162	PASS	
			HCH	VN	-30	-11.50	-.00603	PASS	
					-20	1.13	.00059	PASS	
					-10	-10.84	-.00568	PASS	
					0	2.30	.00121	PASS	
					10	1.80	.00094	PASS	
					20	-2.63	-.00138	PASS	
					30	-8.17	-.00428	PASS	
					40	-8.08	-.00424	PASS	
			50	7.37	.00386	PASS			
			10	LCH	VN	-30	-1.44	-.00078	PASS
						-20	-5.32	-.00287	PASS
						-10	1.57	.00085	PASS
						0	-4.29	-.00231	PASS
		10				-4.29	-.00231	PASS	
		20				-6.65	-.00358	PASS	
		30				4.01	.00216	PASS	
		40				-6.72	-.00362	PASS	
		50		-6.31	-.0034	PASS			
		MCH		VN	-30	3.65	.00194	PASS	
					-20	11.16	.00594	PASS	
					-10	-3.95	-.0021	PASS	
					0	-10.47	-.00557	PASS	
					10	-6.38	-.00339	PASS	
					20	-9.00	-.00479	PASS	
					30	-5.12	-.00272	PASS	
					40	-2.75	-.00146	PASS	
		50		5.85	.00311	PASS			
		HCH	VN	-30	-2.12	-.00111	PASS		
				-20	-7.80	-.00409	PASS		
				-10	-1.63	-.00086	PASS		
				0	4.66	.00245	PASS		
10	3.95			.00207	PASS				
20	-6.31			-.00331	PASS				
30	-6.32			-.00332	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					40	10.21	.00536	PASS		
					50	-3.35	-.00176	PASS		
		15	LCH	VN	-30	1.16	.00062	PASS		
					-20	-1.24	-.00067	PASS		
					-10	-9.44	-.00508	PASS		
					0	-8.87	-.00478	PASS		
					10	-10.49	-.00565	PASS		
					20	-11.86	-.00638	PASS		
					30	-16.29	-.00877	PASS		
					40	-1.32	-.00071	PASS		
					50	-15.82	-.00852	PASS		
			MCH	VN	-30	3.46	.00184	PASS		
					-20	-8.85	-.00471	PASS		
					-10	-0.86	-.00046	PASS		
					0	4.45	.00237	PASS		
					10	-3.22	-.00171	PASS		
					20	5.01	.00266	PASS		
					30	-5.82	-.0031	PASS		
					40	2.65	.00141	PASS		
					50	10.57	.00562	PASS		
		HCH	VN	-30	-7.44	-.00391	PASS			
				-20	-7.11	-.00374	PASS			
				-10	-10.61	-.00558	PASS			
				0	-4.73	-.00249	PASS			
				10	-2.47	-.0013	PASS			
				20	-3.68	-.00193	PASS			
				30	7.17	.00377	PASS			
				40	2.46	.00129	PASS			
				50	9.40	.00494	PASS			
		20	LCH	VN	-30	-3.72	-.002	PASS		
					-20	-13.32	-.00716	PASS		
					-10	-5.98	-.00322	PASS		
					0	-8.18	-.0044	PASS		
					10	-11.34	-.0061	PASS		
					20	-6.31	-.00339	PASS		
					30	-4.81	-.00259	PASS		
					40	-3.20	-.00172	PASS		
					50	0.06	.00003	PASS		
					MCH	VN	-30	0.46	.00024	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					-20	-3.63	-.00193	PASS			
					-10	-5.31	-.00282	PASS			
					0	-9.66	-.00514	PASS			
					10	1.79	.00095	PASS			
					20	-3.35	-.00178	PASS			
					30	-10.30	-.00548	PASS			
					40	0.11	.00006	PASS			
					50	-5.99	-.00319	PASS			
			HCH	VN	-30	-11.13	-.00586	PASS			
					-20	-6.27	-.0033	PASS			
					-10	-3.59	-.00189	PASS			
					0	-16.95	-.00892	PASS			
					10	-6.41	-.00337	PASS			
					20	-3.58	-.00188	PASS			
					30	-17.37	-.00914	PASS			
					40	-4.18	-.0022	PASS			
						LCH	VN	-30	5.39	.00291	PASS
								-20	22.59	.01221	PASS
								-10	3.79	.00205	PASS
								0	11.86	.00641	PASS
	10	19.97						.01079	PASS		
	20	-5.05						-.00273	PASS		
	30	-14.23						-.00769	PASS		
	40	-0.93						-.0005	PASS		
				MCH	VN	-30	10.19	.00542	PASS		
						-20	-1.90	-.00101	PASS		
						-10	4.28	.00228	PASS		
						0	10.11	.00538	PASS		
						10	-2.92	-.00155	PASS		
						20	-1.85	-.00098	PASS		
						30	8.60	.00457	PASS		
						40	6.41	.00341	PASS		
				HCH	VN	-30	-22.76	-.01192	PASS		
						-20	16.11	.00844	PASS		
						-10	4.73	.00248	PASS		
						0	-1.32	-.00069	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	1.65	.00086	PASS		
					20	3.95	.00207	PASS		
					30	6.45	.00338	PASS		
					40	11.67	.00611	PASS		
					50	12.37	.00648	PASS		
		3	LCH	VN	-30	1.27	.00069	PASS		
					-20	-8.83	-.00477	PASS		
					-10	-11.74	-.00634	PASS		
					0	-1.76	-.00095	PASS		
					10	1.42	.00077	PASS		
					20	11.57	.00625	PASS		
					30	-0.66	-.00036	PASS		
					40	-21.77	-.01176	PASS		
					50	4.53	.00245	PASS		
					MCH	VN	-30	4.28	.00228	PASS
							-20	3.89	.00207	PASS
							-10	-8.64	-.0046	PASS
			0	5.38			.00286	PASS		
			10	0.76			.0004	PASS		
			20	2.49			.00132	PASS		
			30	8.97			.00477	PASS		
			40	7.28			.00387	PASS		
			HCH	VN	-30	-4.11	-.00215	PASS		
					-20	-1.19	-.00062	PASS		
					-10	-11.93	-.00625	PASS		
					0	-4.03	-.00211	PASS		
					10	8.37	.00439	PASS		
					20	-8.94	-.00468	PASS		
					30	6.84	.00358	PASS		
		40			-6.17	-.00323	PASS			
		5	LCH	VN	-30	-6.42	-.00347	PASS		
					-20	-14.83	-.00801	PASS		
					-10	11.49	.0062	PASS		
0	3.18				.00172	PASS				
10	-1.43				-.00077	PASS				
20	-8.20				-.00443	PASS				
30	9.31				.00503	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	12.26	.00662	PASS
					50	1.72	.00093	PASS
			MCH	VN	-30	4.55	.00242	PASS
					-20	5.98	.00318	PASS
					-10	-13.96	-.00743	PASS
					0	-9.70	-.00516	PASS
					10	3.02	.00161	PASS
					20	-2.45	-.0013	PASS
					30	3.86	.00205	PASS
					40	-1.87	-.00099	PASS
					50	-5.68	-.00302	PASS
					HCH	VN	-30	1.59
			-20	-3.82			-.002	PASS
			-10	10.43			.00547	PASS
			0	1.37			.00072	PASS
			10	-6.91			-.00362	PASS
			20	-4.75			-.00249	PASS
			30	24.86			.01303	PASS
			40	4.89			.00256	PASS
			10	LCH	VN	-30	-5.04	-.00272
		-20				0.54	.00029	PASS
		-10				-4.94	-.00266	PASS
		0				-13.39	-.00722	PASS
		10				-5.11	-.00275	PASS
		20				-16.79	-.00905	PASS
		30				1.56	.00084	PASS
		40				-6.62	-.00357	PASS
		50				-4.15	-.00224	PASS
		MCH				VN	-30	-7.93
				-20	-0.36		-.00019	PASS
				-10	-1.89		-.00101	PASS
				0	7.24		.00385	PASS
				10	-2.09		-.00111	PASS
				20	1.03		.00055	PASS
				30	-2.20		-.00117	PASS
				40	-13.38		-.00712	PASS
				50	5.95		.00316	PASS
				HCH	VN		-30	10.97



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-2.76	-.00145	PASS		
					-10	6.87	.00361	PASS		
					0	-4.81	-.00252	PASS		
					10	-3.16	-.00166	PASS		
					20	-7.82	-.0041	PASS		
					30	-2.06	-.00108	PASS		
					40	7.04	.0037	PASS		
					50	7.71	.00405	PASS		
		15	LCH	VN	-30	-6.52	-.00351	PASS		
					-20	-2.75	-.00148	PASS		
					-10	-4.61	-.00248	PASS		
					0	0.47	.00025	PASS		
					10	-8.18	-.0044	PASS		
					20	-4.75	-.00256	PASS		
					30	-10.83	-.00583	PASS		
					40	4.03	.00217	PASS		
					50	-9.93	-.00535	PASS		
					MCH	VN	-30	-6.24	-.00332	PASS
							-20	-1.20	-.00064	PASS
							-10	-6.39	-.0034	PASS
			0	-5.75			-.00306	PASS		
			10	-1.17			-.00062	PASS		
			20	-4.29			-.00228	PASS		
			HCH	VN	30	-12.59	-.0067	PASS		
					40	3.56	.00189	PASS		
					50	-0.16	-.00009	PASS		
					-30	-8.64	-.00454	PASS		
					-20	-9.43	-.00496	PASS		
					-10	-0.19	-.0001	PASS		
			20	LCH	VN	0	-10.13	-.00532	PASS	
						10	-8.35	-.00439	PASS	
						20	-6.90	-.00363	PASS	
		30				9.43	.00496	PASS		
		40				7.02	.00369	PASS		
		50				1.72	.0009	PASS		
		-30				-4.75	-.00255	PASS		
-20	-9.51	-.00511				PASS				
-10	0.34	.00018	PASS							
0	-3.50	-.00188	PASS							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	3.89	.00209	PASS			
					20	-16.59	-.00892	PASS			
					30	-5.21	-.0028	PASS			
					40	-6.39	-.00344	PASS			
					50	2.03	.00109	PASS			
			MCH	VN	-30	-5.56	-.00296	PASS			
					-20	4.32	.0023	PASS			
					-10	1.16	.00062	PASS			
					0	1.54	.00082	PASS			
					10	-8.63	-.00459	PASS			
					20	8.35	.00444	PASS			
					30	5.31	.00282	PASS			
					40	5.48	.00291	PASS			
			HCH	VN	50	6.19	.00329	PASS			
					-30	-9.54	-.00502	PASS			
					-20	-11.20	-.00589	PASS			
					-10	-8.01	-.00422	PASS			
					0	-4.48	-.00236	PASS			
					10	-6.62	-.00348	PASS			
					20	-3.89	-.00205	PASS			
					30	-1.43	-.00075	PASS			
			BAND4	LTE/TM1	1.4	LCH	VN	40	-3.86	-.00203	PASS
								50	-3.13	-.00165	PASS
								-30	-13.95	-.00815	PASS
								-20	3.16	.00185	PASS
								-10	2.22	.0013	PASS
								0	-21.51	-.01257	PASS
								10	-19.34	-.01131	PASS
20	10.97	.00641						PASS			
MCH	VN	30				-5.21	-.00305	PASS			
		40				2.42	.00141	PASS			
		50				-7.67	-.00448	PASS			
		-30				1.34	.00077	PASS			
		-20				-17.78	-.01026	PASS			
		-10				-8.84	-.0051	PASS			
		0				-3.39	-.00196	PASS			
10	-16.61	-.00959	PASS								
20	-19.45	-.01123	PASS								
30	2.36	.00136	PASS								



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-24.15	-.01394	PASS
					50	-2.75	-.00159	PASS
			HCH	VN	-30	6.77	.00386	PASS
					-20	-0.39	-.00022	PASS
					-10	7.27	.00414	PASS
					0	10.91	.00622	PASS
					10	-0.87	-.0005	PASS
					20	-7.18	-.00409	PASS
					30	4.52	.00258	PASS
					40	-14.43	-.00823	PASS
					50	-9.87	-.00563	PASS
		3	LCH	VN	-30	-1.04	-.00061	PASS
					-20	1.29	.00075	PASS
					-10	8.38	.0049	PASS
					0	-9.77	-.00571	PASS
					10	-10.13	-.00592	PASS
					20	6.29	.00368	PASS
					30	4.42	.00258	PASS
					40	-11.53	-.00674	PASS
			50	14.69	.00858	PASS		
			MCH	VN	-30	-7.77	-.00448	PASS
					-20	-4.21	-.00243	PASS
		-10			-1.60	-.00092	PASS	
		0			-5.72	-.0033	PASS	
		10			0.53	.00031	PASS	
		20			7.98	.00461	PASS	
		30			6.64	.00383	PASS	
		HCH	VN	-30	-9.06	-.00517	PASS	
				-20	-8.35	-.00476	PASS	
				-10	-15.29	-.00872	PASS	
				0	-13.09	-.00747	PASS	
				10	-3.71	-.00212	PASS	
				20	2.57	.00147	PASS	
30	-7.68			-.00438	PASS			
40	-8.37			-.00477	PASS			
50	4.15	.00237	PASS					
5	LCH	VN	-30	-8.78	-.00513	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	-9.94	-.0058	PASS	
					-10	10.37	.00606	PASS	
					0	-3.56	-.00208	PASS	
					10	4.48	.00262	PASS	
					20	-9.36	-.00547	PASS	
					30	-1.60	-.00093	PASS	
					40	-3.13	-.00183	PASS	
					50	-7.81	-.00456	PASS	
			MCH	VN	-30	-13.26	-.00765	PASS	
					-20	-13.56	-.00783	PASS	
					-10	-10.53	-.00608	PASS	
					0	1.87	.00108	PASS	
					10	0.07	.00004	PASS	
					20	-6.88	-.00397	PASS	
					30	-3.76	-.00217	PASS	
					40	-12.23	-.00706	PASS	
			HCH	VN	-30	-12.69	-.00724	PASS	
					-20	-1.36	-.00078	PASS	
					-10	9.91	.00565	PASS	
					0	-1.89	-.00108	PASS	
					10	-19.84	-.01132	PASS	
					20	-7.75	-.00442	PASS	
					30	-6.41	-.00366	PASS	
					40	-9.36	-.00534	PASS	
			10	LCH	VN	-30	-4.65	-.00271	PASS
						-20	1.17	.00068	PASS
						-10	2.60	.00152	PASS
						0	-8.94	-.00521	PASS
		10				7.54	.0044	PASS	
		20				-4.65	-.00271	PASS	
		30				0.07	.00004	PASS	
		40				6.39	.00373	PASS	
		50		0.53	.00031	PASS			
		MCH		VN	-30	-8.21	-.00474	PASS	
					-20	-13.53	-.00781	PASS	
					-10	-4.35	-.00251	PASS	
			0		5.28	.00305	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	1.24	.00072	PASS
					20	-4.13	-.00238	PASS
					30	-9.67	-.00558	PASS
					40	-8.57	-.00495	PASS
					50	-15.74	-.00909	PASS
			HCH	VN	-30	-10.84	-.00619	PASS
					-20	-11.73	-.0067	PASS
					-10	-3.39	-.00194	PASS
					0	5.01	.00286	PASS
					10	-7.91	-.00452	PASS
					20	0.67	.00038	PASS
					30	4.03	.0023	PASS
					40	4.99	.00285	PASS
					50	-8.70	-.00497	PASS
					LCH	VN	-30	-0.14
			-20	-3.26			-.0019	PASS
			-10	-6.62			-.00385	PASS
			0	5.08			.00296	PASS
			10	4.82			.00281	PASS
			20	3.33			.00194	PASS
		30	-4.41	-.00257			PASS	
		40	2.95	.00172			PASS	
		MCH	VN	50	-1.95	-.00114	PASS	
				-30	-6.31	-.00364	PASS	
				-20	-8.37	-.00483	PASS	
				-10	-0.89	-.00051	PASS	
				0	-6.04	-.00349	PASS	
				10	-13.62	-.00786	PASS	
				20	-1.00	-.00058	PASS	
				30	-13.02	-.00752	PASS	
		HCH	VN	40	-3.99	-.0023	PASS	
				50	0.01	.00001	PASS	
				-30	15.45	.00884	PASS	
				-20	-2.66	-.00152	PASS	
				-10	6.12	.0035	PASS	
				0	-4.22	-.00241	PASS	
				10	4.01	.00229	PASS	
		20	-0.73	-.00042	PASS			
		30	0.11	.00006	PASS			
		15						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20	LCH	VN	40	1.47	.00084	PASS
					50	-2.70	-.00155	PASS
					-30	0.44	.00026	PASS
					-20	-2.63	-.00153	PASS
					-10	-2.70	-.00157	PASS
					0	-0.57	-.00033	PASS
					10	-4.43	-.00258	PASS
					20	10.46	.00608	PASS
					30	3.20	.00186	PASS
					40	2.62	.00152	PASS
			50	0.87	.00051	PASS		
			MCH	VN	-30	-4.65	-.00268	PASS
					-20	-7.28	-.0042	PASS
					-10	-5.39	-.00311	PASS
					0	-8.15	-.0047	PASS
					10	-4.91	-.00283	PASS
					20	-6.82	-.00394	PASS
					30	1.09	.00063	PASS
					40	-3.89	-.00225	PASS
			HCH	VN	50	7.15	.00413	PASS
	-30	-2.93			-.00168	PASS		
	-20	-0.94			-.00054	PASS		
	-10	1.03			.00059	PASS		
	0	1.24			.00071	PASS		
	10	4.91			.00281	PASS		
	20	8.47			.00485	PASS		
	30	6.38			.00366	PASS		
	LCH	VN	1.4	-30	-7.11	-.00416	PASS	
				-20	-1.54	-.0009	PASS	
				-10	-6.75	-.00395	PASS	
				0	-21.07	-.01232	PASS	
				10	-8.68	-.00507	PASS	
				20	-10.97	-.00641	PASS	
				30	-5.21	-.00305	PASS	
				40	-14.78	-.00864	PASS	
				50	-25.89	-.01513	PASS	
				MCH	VN	-30	-0.44	-.00025



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-5.91	-.00341	PASS
					-10	7.41	.00428	PASS
					0	-5.55	-.0032	PASS
					10	-5.61	-.00324	PASS
					20	-4.09	-.00236	PASS
					30	-6.39	-.00369	PASS
					40	-27.31	-.01576	PASS
					50	-10.09	-.00582	PASS
			HCH	VN	-30	7.60	.00433	PASS
					-20	2.03	.00116	PASS
					-10	3.63	.00207	PASS
					0	-9.34	-.00532	PASS
					10	12.33	.00703	PASS
					20	-6.09	-.00347	PASS
		30			-5.88	-.00335	PASS	
		40			12.92	.00736	PASS	
		3	LCH	VN	-30	-10.26	-.00599	PASS
					-20	-8.97	-.00524	PASS
					-10	9.04	.00528	PASS
					0	1.49	.00087	PASS
					10	20.10	.01174	PASS
					20	8.14	.00476	PASS
					30	-0.26	-.00015	PASS
					40	-0.37	-.00022	PASS
			MCH	VN	-30	-7.41	-.00428	PASS
					-20	-9.03	-.00521	PASS
					-10	-2.33	-.00134	PASS
					0	1.09	.00063	PASS
					10	-16.95	-.00978	PASS
					20	-9.74	-.00562	PASS
					30	2.03	.00117	PASS
					40	-0.17	-.0001	PASS
		HCH	VN	-30	4.11	.00234	PASS	
				-20	6.34	.00362	PASS	
				-10	-12.12	-.00691	PASS	
				0	-8.33	-.00475	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	8.75	.00499	PASS		
					20	-16.14	-.0092	PASS		
					30	11.39	.0065	PASS		
					40	1.66	.00095	PASS		
					50	-1.06	-.0006	PASS		
		5	LCH	VN	-30	-2.89	-.00169	PASS		
					-20	-4.05	-.00236	PASS		
					-10	7.58	.00443	PASS		
					0	-11.74	-.00686	PASS		
					10	-21.49	-.01255	PASS		
					20	13.18	.0077	PASS		
					30	-5.09	-.00297	PASS		
					40	10.41	.00608	PASS		
					50	-3.20	-.00187	PASS		
					MCH	VN	-30	-22.62	-.01306	PASS
							-20	-2.93	-.00169	PASS
							-10	-6.35	-.00367	PASS
							0	2.75	.00159	PASS
							10	-9.37	-.00541	PASS
			20	-14.12			-.00815	PASS		
			30	-4.92			-.00284	PASS		
			40	-13.13			-.00758	PASS		
			50	-10.97			-.00633	PASS		
			HCH	VN			-30	11.83	.00675	PASS
							-20	-0.51	-.00029	PASS
							-10	-8.55	-.00488	PASS
							0	11.54	.00658	PASS
							10	-4.42	-.00252	PASS
					20	7.21	.00411	PASS		
					30	6.67	.00381	PASS		
					40	9.90	.00565	PASS		
			10	LCH	VN	-30	4.72	.00275	PASS	
						-20	2.88	.00168	PASS	
-10	-8.94	-.00521				PASS				
0	-10.24	-.00597				PASS				
10	-13.02	-.00759				PASS				
20	-15.64	-.00912				PASS				
30	1.16	.00068				PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	0.96	.00056	PASS	
					50	7.17	.00418	PASS	
			MCH	VN	-30	0.04	.00002	PASS	
					-20	-0.64	-.00037	PASS	
					-10	0.46	.00027	PASS	
					0	3.59	.00207	PASS	
					10	3.62	.00209	PASS	
					20	0.46	.00027	PASS	
					30	-0.80	-.00046	PASS	
					40	-3.39	-.00196	PASS	
					50	-3.40	-.00196	PASS	
					HCH	VN	-30	15.03	.00859
			-20	6.97			.00398	PASS	
			-10	7.20			.00411	PASS	
			0	-2.65			-.00151	PASS	
			10	7.84			.00448	PASS	
			20	-3.35			-.00191	PASS	
			30	-2.53			-.00145	PASS	
		40	0.43	.00025			PASS		
		15		LCH	VN	-30	5.16	.003	PASS
						-20	-2.43	-.00141	PASS
						-10	-7.91	-.00461	PASS
						0	-5.04	-.00293	PASS
						10	-3.99	-.00232	PASS
						20	11.86	.00691	PASS
						30	-3.43	-.002	PASS
						40	2.22	.00129	PASS
						50	-3.81	-.00222	PASS
				MCH	VN	-30	3.28	.00189	PASS
						-20	-11.90	-.00687	PASS
						-10	4.12	.00238	PASS
						0	-4.46	-.00257	PASS
						10	-0.59	-.00034	PASS
20	-4.45					-.00257	PASS		
HCH	VN	30	-5.98	-.00345	PASS				
		40	3.86	.00223	PASS				
		50	4.41	.00255	PASS				
			HCH	VN	-30	-0.90	-.00052	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.23	.00013	PASS
					-10	1.16	.00066	PASS
					0	-1.46	-.00084	PASS
					10	-0.47	-.00027	PASS
					20	-11.67	-.00668	PASS
					30	7.75	.00443	PASS
					40	-1.06	-.00061	PASS
					50	-10.11	-.00579	PASS
		20	LCH	VN	-30	-1.27	-.00074	PASS
					-20	2.09	.00122	PASS
					-10	5.49	.00319	PASS
					0	1.32	.00077	PASS
					10	0.67	.00039	PASS
					20	3.95	.0023	PASS
					30	2.80	.00163	PASS
					40	-2.43	-.00141	PASS
					50	-1.29	-.00075	PASS
					MCH	VN	-30	-5.61
			-20	-1.56			-.0009	PASS
			-10	-4.38			-.00253	PASS
			0	-4.12			-.00238	PASS
			10	3.63			.0021	PASS
			20	5.21			.00301	PASS
			30	-1.57			-.00091	PASS
			40	12.19			.00704	PASS
			50	6.94			.00401	PASS
			HCH	VN			-30	-10.23
					-20	-0.51	-.00029	PASS
-10	2.07	.00119			PASS			
0	9.46	.00542			PASS			
10	8.67	.00497			PASS			
20	5.44	.00312			PASS			
30	4.31	.00247			PASS			
40	4.26	.00244			PASS			
50	-7.87	-.00451	PASS					
BAND5	LTE/TM1	1.4	LCH	VN	-30	-8.48	-.01028	PASS
					-20	3.26	.00395	PASS
					-10	5.46	.00662	PASS
					0	1.30	.00158	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict							
		3			10	-6.85	-.00831	PASS							
					20	3.13	.0038	PASS							
					30	15.38	.01865	PASS							
					40	4.08	.00495	PASS							
					50	-10.26	-.01244	PASS							
			MCH	VN				-30	10.74	.01284	PASS				
								-20	-3.69	-.00441	PASS				
								-10	21.53	.02574	PASS				
								0	-16.06	-.0192	PASS				
								10	-20.70	-.02475	PASS				
								20	6.71	.00802	PASS				
								30	-6.18	-.00739	PASS				
								40	8.05	.00962	PASS				
								50	10.09	.01206	PASS				
			HCH	VN				-30	23.16	.0273	PASS				
								-20	0.13	.00015	PASS				
								-10	1.63	.00192	PASS				
								0	-1.54	-.00182	PASS				
								10	6.65	.00784	PASS				
								20	-2.89	-.00341	PASS				
								30	2.06	.00243	PASS				
								40	4.52	.00533	PASS				
			LCH	VN	3			-30	-4.79	-.0058	PASS				
								-20	0.43	.00052	PASS				
		-10						-10.56	-.01279	PASS					
		0						-3.82	-.00463	PASS					
		10						6.34	.00768	PASS					
		20						-4.51	-.00546	PASS					
		30						-6.02	-.00729	PASS					
		40						6.25	.00757	PASS					
		50						-7.24	-.00877	PASS					
		MCH						VN	3			-30	-1.63	-.00195	PASS
												-20	21.90	.02618	PASS
												-10	-13.36	-.01597	PASS
			0	-14.88	-.01779	PASS									
			10	3.46	.00414	PASS									
20	-17.87		-.02136	PASS											
30	-12.76		-.01525	PASS											



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					40	8.75	.01046	PASS		
					50	-7.55	-.00903	PASS		
			HCH	VN	-30	2.57	.00303	PASS		
					-20	-6.49	-.00766	PASS		
					-10	0.82	.00097	PASS		
					0	-4.48	-.00529	PASS		
					10	-0.66	-.00078	PASS		
					20	4.99	.00589	PASS		
					30	6.84	.00807	PASS		
					40	-5.08	-.00599	PASS		
		50	8.65	.01021	PASS					
					LCH	VN	-30	4.23	.00512	PASS
							-20	18.00	.02178	PASS
							-10	18.35	.0222	PASS
							0	5.22	.00632	PASS
							10	8.14	.00985	PASS
							20	-3.79	-.00459	PASS
							30	5.61	.00679	PASS
							40	13.78	.01667	PASS
							50	7.80	.00944	PASS
										MCH
		-20	22.34	.02671	PASS					
		-10	-0.82	-.00098	PASS					
		0	13.99	.01672	PASS					
		10	-11.20	-.01339	PASS					
		20	13.33	.01594	PASS					
		30	1.59	.0019	PASS					
		40	7.01	.00838	PASS					
		50	15.48	.01851	PASS					
					HCH	VN				
							-20	-2.32	-.00274	PASS
							-10	2.65	.00313	PASS
							0	-0.70	-.00083	PASS
							10	-1.96	-.00232	PASS
							20	-1.12	-.00132	PASS
							30	8.93	.01055	PASS
							40	4.05	.00478	PASS
							50	-13.73	-.01622	PASS
							10	LCH	VN	-30



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-9.97	-.01203	PASS
					-10	-3.71	-.00448	PASS
					0	2.33	.00281	PASS
					10	-5.82	-.00702	PASS
					20	3.02	.00364	PASS
					30	9.60	.01158	PASS
					40	3.33	.00402	PASS
					50	5.18	.00625	PASS
			MCH	VN	-30	5.69	.0068	PASS
					-20	15.75	.01883	PASS
					-10	5.05	.00604	PASS
					0	3.65	.00436	PASS
					10	3.76	.00449	PASS
					20	-4.79	-.00573	PASS
					30	-3.99	-.00477	PASS
					40	-12.79	-.01529	PASS
			HCH	VN	-30	20.86	.02472	PASS
					-20	-1.02	-.00121	PASS
					-10	-2.35	-.00278	PASS
					0	-4.86	-.00576	PASS
					10	2.06	.00244	PASS
					20	-3.58	-.00424	PASS
					30	5.22	.00618	PASS
					40	1.09	.00129	PASS
			LCH	VN	-30	-13.68	-.01659	PASS
					-20	-11.26	-.01365	PASS
					-10	-3.36	-.00407	PASS
					0	-3.86	-.00468	PASS
	10	-12.26			-.01487	PASS		
	20	-8.37			-.01015	PASS		
	30	13.38			.01622	PASS		
	40	11.62			.01409	PASS		
	50	1.49			.00181	PASS		
	MCH	VN			-30	-2.72	-.00325	PASS
					-20	-4.69	-.00561	PASS
					-10	-7.22	-.00863	PASS
			0	3.12	.00373	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					10	-13.20	-.01578	PASS			
					20	-2.22	-.00265	PASS			
					30	0.14	.00017	PASS			
					40	8.65	.01034	PASS			
					50	-10.21	-.01221	PASS			
			HCH	VN				-30	3.06	.00361	PASS
								-20	5.01	.00591	PASS
								-10	-3.71	-.00437	PASS
								0	12.32	.01452	PASS
								10	0.27	.00032	PASS
								20	-1.23	-.00145	PASS
								30	9.13	.01076	PASS
								40	13.06	.0154	PASS
								50	-13.72	-.01617	PASS
								LCH	VN	3	
			-20	-4.05	-.00491	PASS					
			-10	1.62	.00196	PASS					
			0	-2.27	-.00275	PASS					
			10	2.16	.00262	PASS					
			20	5.02	.00608	PASS					
		30	4.43	.00537	PASS						
		40	5.19	.00629	PASS						
		50	13.66	.01655	PASS						
		MCH	VN	3			-30				
							-20	3.76	.00449	PASS	
							-10	7.58	.00906	PASS	
							0	0.01	.00001	PASS	
							10	0.37	.00044	PASS	
							20	10.24	.01224	PASS	
							30	2.16	.00258	PASS	
							40	-6.38	-.00763	PASS	
		HCH	VN	3			50	1.67	.002	PASS	
							-30	10.51	.0124	PASS	
							-20	-3.75	-.00442	PASS	
							-10	-10.00	-.0118	PASS	
							0	7.85	.00926	PASS	
							10	0.41	.00048	PASS	
							20	4.12	.00486	PASS	
		30	11.04	.01303	PASS						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-7.41	-.00874	PASS
					50	-8.23	-.00971	PASS
		5	LCH	VN	-30	21.93	.02653	PASS
					-20	-1.83	-.00221	PASS
					-10	6.34	.00767	PASS
					0	18.30	.02214	PASS
					10	10.17	.0123	PASS
					20	2.02	.00244	PASS
					30	10.84	.01312	PASS
					40	20.41	.02469	PASS
					50	7.14	.00864	PASS
			MCH	VN	-30	-0.34	-.00041	PASS
					-20	13.07	.01562	PASS
					-10	1.83	.00219	PASS
					0	3.06	.00366	PASS
					10	10.16	.01215	PASS
					20	13.03	.01558	PASS
					30	10.87	.01299	PASS
					40	12.49	.01493	PASS
					50	18.21	.02177	PASS
		HCH	VN	-30	23.92	.02826	PASS	
				-20	-2.49	-.00294	PASS	
				-10	-14.28	-.01687	PASS	
				0	-2.43	-.00287	PASS	
				10	-3.13	-.0037	PASS	
				20	-0.74	-.00087	PASS	
				30	-1.00	-.00118	PASS	
				40	-0.09	-.00011	PASS	
				50	-14.85	-.01754	PASS	
		10	LCH	VN	-30	-8.23	-.00993	PASS
					-20	-4.52	-.00545	PASS
					-10	-5.54	-.00668	PASS
					0	-5.11	-.00616	PASS
10	-4.18				-.00504	PASS		
20	-9.94				-.01199	PASS		
30	-4.73				-.00571	PASS		
40	3.12				.00376	PASS		
50	-13.09				-.01579	PASS		
MCH	VN		-30	-0.33	-.00039	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					-20	15.12	.01808	PASS			
					-10	-2.73	-.00326	PASS			
					0	1.57	.00188	PASS			
					10	1.82	.00218	PASS			
					20	-3.42	-.00409	PASS			
					30	0.01	.00001	PASS			
					40	5.71	.00683	PASS			
					50	7.20	.00861	PASS			
			HCH	VN	-30	-4.08	-.00483	PASS			
					-20	0.34	.0004	PASS			
					-10	0.99	.00117	PASS			
					0	-1.86	-.0022	PASS			
					10	4.01	.00475	PASS			
					20	6.32	.00749	PASS			
					30	3.15	.00373	PASS			
					40	6.19	.00733	PASS			
			BAND7	LTE/TM1	5	LCH	VN	-30	-15.68	-.00627	PASS
								-20	2.83	.00113	PASS
-10	11.49	.00459						PASS			
0	-0.20	-.00008						PASS			
10	0.77	.00031						PASS			
20	2.55	.00102						PASS			
30	-4.22	-.00169						PASS			
40	9.01	.0036						PASS			
MCH	VN	-30				-13.79	-.00544	PASS			
		-20				3.96	.00156	PASS			
		-10				-3.13	-.00123	PASS			
		0				-12.23	-.00482	PASS			
		10				-12.13	-.00479	PASS			
		20				-12.90	-.00509	PASS			
		30				5.54	.00219	PASS			
		40				-6.49	-.00256	PASS			
HCH	VN	-30				-15.55	-.00606	PASS			
		-20				-1.52	-.00059	PASS			
		-10	9.67	.00377	PASS						
		0	7.80	.00304	PASS						



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	-2.37	-.00092	PASS		
					20	-8.60	-.00335	PASS		
					30	-13.55	-.00528	PASS		
					40	-5.31	-.00207	PASS		
					50	-3.45	-.00134	PASS		
		10	LCH	VN	-30	-6.15	-.00246	PASS		
					-20	4.15	.00166	PASS		
					-10	10.17	.00406	PASS		
					0	-3.28	-.00131	PASS		
					10	5.95	.00238	PASS		
					20	11.87	.00474	PASS		
					30	0.64	.00026	PASS		
					40	6.44	.00257	PASS		
					50	7.71	.00308	PASS		
					MCH	VN	-30	-9.68	-.00382	PASS
							-20	-0.10	-.00004	PASS
							-10	-20.71	-.00817	PASS
							0	-4.45	-.00176	PASS
							10	-4.84	-.00191	PASS
			20	-0.69			-.00027	PASS		
			30	11.63			.00459	PASS		
			40	5.74			.00226	PASS		
			50	7.64			.00301	PASS		
			HCH	VN			-30	-0.66	-.00026	PASS
							-20	-12.13	-.00473	PASS
							-10	-8.51	-.00332	PASS
							0	5.94	.00232	PASS
							10	-9.51	-.00371	PASS
					20	-4.79	-.00187	PASS		
					30	-4.91	-.00191	PASS		
					40	-9.08	-.00354	PASS		
					50	-7.70	-.003	PASS		
					15	LCH	VN	-30	-12.53	-.005
-20	-16.91	-.00674	PASS							
-10	-13.20	-.00526	PASS							
0	-8.17	-.00326	PASS							
10	-12.47	-.00497	PASS							
20	-15.18	-.00605	PASS							
30	-2.35	-.00094	PASS							

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-16.47	-.00657	PASS
					50	-2.02	-.00081	PASS
			MCH	VN	-30	-3.45	-.00136	PASS
					-20	6.31	.00249	PASS
					-10	0.87	.00034	PASS
					0	-9.16	-.00361	PASS
					10	6.49	.00256	PASS
					20	-7.95	-.00314	PASS
					30	-1.30	-.00051	PASS
					40	-1.90	-.00075	PASS
					50	-2.09	-.00082	PASS
					HCH	VN	-30	-18.37
			-20	-11.14			-.00435	PASS
			-10	-5.16			-.00201	PASS
			0	2.90			.00113	PASS
			10	-7.97			-.00311	PASS
			20	-2.35			-.00092	PASS
			30	-2.39			-.00093	PASS
			40	3.91			.00153	PASS
			20	LCH	VN	-30	-17.37	-.00692
		-20				-9.44	-.00376	PASS
		-10				-0.93	-.00037	PASS
		0				-5.95	-.00237	PASS
		10				9.91	.00395	PASS
		20				-3.93	-.00157	PASS
		30				5.25	.00209	PASS
		40				-8.51	-.00339	PASS
		50				6.51	.00259	PASS
		MCH				VN	-30	0.74
				-20	2.86		.00113	PASS
				-10	-9.00		-.00355	PASS
				0	-7.31		-.00288	PASS
				10	6.28		.00248	PASS
				20	-5.65		-.00223	PASS
				30	-2.09		-.00082	PASS
				40	6.82		.00269	PASS
				50	-10.06		-.00397	PASS
				HCH	VN		-30	-3.76



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-13.69	-.00535	PASS		
					-10	-17.17	-.00671	PASS		
					0	-5.69	-.00222	PASS		
					10	-16.68	-.00652	PASS		
					20	-3.32	-.0013	PASS		
					30	-4.69	-.00183	PASS		
					40	-10.14	-.00396	PASS		
					50	-12.25	-.00479	PASS		
	LTE/TM2	5	LCH	VN	-30	-12.59	-.00503	PASS		
					-20	-1.52	-.00061	PASS		
					-10	-10.91	-.00436	PASS		
					0	-11.66	-.00466	PASS		
					10	-14.65	-.00585	PASS		
					20	-2.88	-.00115	PASS		
					30	-8.24	-.00329	PASS		
					40	-9.28	-.00371	PASS		
					50	5.64	.00225	PASS		
					MCH	VN	-30	-10.49	-.00414	PASS
							-20	-1.85	-.00073	PASS
							-10	-18.88	-.00745	PASS
							0	-10.24	-.00404	PASS
							10	-1.92	-.00076	PASS
							20	4.73	.00187	PASS
							30	-4.66	-.00184	PASS
			40	-10.81			-.00426	PASS		
			HCH	VN	-30	-18.30	-.00713	PASS		
					-20	3.25	.00127	PASS		
					-10	-8.65	-.00337	PASS		
					0	-10.53	-.0041	PASS		
					10	-11.23	-.00437	PASS		
					20	2.19	.00085	PASS		
					30	-0.53	-.00021	PASS		
40	-1.27	-.00049			PASS					
10	LCH	VN	-30	-12.66	-.00505	PASS				
			-20	-3.65	-.00146	PASS				
			-10	-13.63	-.00544	PASS				
			0	-0.49	-.0002	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-6.32	-.00252	PASS
					20	-4.81	-.00192	PASS
					30	-2.53	-.00101	PASS
					40	-14.09	-.00562	PASS
					50	-13.98	-.00558	PASS
			MCH	VN	-30	-8.97	-.00354	PASS
					-20	-8.91	-.00351	PASS
					-10	-2.78	-.0011	PASS
					0	-3.46	-.00136	PASS
					10	-0.79	-.00031	PASS
					20	-14.58	-.00575	PASS
					30	2.65	.00105	PASS
					40	-2.75	-.00108	PASS
					50	-0.16	-.00006	PASS
					HCH	VN	-30	-1.73
			-20	-2.89			-.00113	PASS
			-10	1.03			.0004	PASS
			0	-19.90			-.00776	PASS
			10	-8.68			-.00338	PASS
			20	-6.22			-.00242	PASS
		30	3.83	.00149			PASS	
		40	8.57	.00334			PASS	
		15	LCH	VN	-30	-9.71	-.00387	PASS
					-20	-12.93	-.00516	PASS
					-10	-15.28	-.00609	PASS
					0	-20.99	-.00837	PASS
					10	-6.67	-.00266	PASS
					20	-3.59	-.00143	PASS
					30	6.95	.00277	PASS
					40	-4.65	-.00185	PASS
					50	2.75	.0011	PASS
					MCH	VN	-30	-6.94
			-20	-6.97			-.00275	PASS
			-10	-10.47			-.00413	PASS
			0	-3.25			-.00128	PASS
			10	1.66			.00065	PASS
			20	0.93			.00037	PASS
			30	-5.24			-.00207	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-1.75	-.00069	PASS
					50	-4.06	-.0016	PASS
			HCH	VN	-30	-5.91	-.00231	PASS
					-20	0.53	.00021	PASS
					-10	-8.27	-.00323	PASS
					0	5.98	.00233	PASS
					10	-0.30	-.00012	PASS
					20	-4.65	-.00181	PASS
					30	6.59	.00257	PASS
					40	-1.12	-.00044	PASS
		50	1.30	.00051	PASS			
		20	LCH	VN	-30	-13.26	-.00528	PASS
					-20	-9.94	-.00396	PASS
					-10	-12.83	-.00511	PASS
					0	-11.20	-.00446	PASS
					10	-11.17	-.00445	PASS
					20	-5.24	-.00209	PASS
					30	-7.65	-.00305	PASS
					40	-1.26	-.0005	PASS
			50	-9.13	-.00364	PASS		
			MCH	VN	-30	-9.23	-.00364	PASS
					-20	-1.27	-.0005	PASS
					-10	7.28	.00287	PASS
					0	4.15	.00164	PASS
					10	-4.53	-.00179	PASS
					20	0.94	.00037	PASS
					30	9.56	.00377	PASS
			40	1.53	.0006	PASS		
			50	7.07	.00279	PASS		
		HCH	VN	-30	-10.10	-.00395	PASS	
				-20	-14.16	-.00553	PASS	
				-10	-13.03	-.00509	PASS	
0	-2.27			-.00089	PASS			
10	-10.47			-.00409	PASS			
20	-6.65			-.0026	PASS			
30	4.28			.00167	PASS			
40	0.13			.00005	PASS			
50	-13.35	-.00521	PASS					
BAND7	LTE/TM1	5	LCH	VN	-30	-8.48	-.00339	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					-20	8.08	.00323	PASS	
					-10	-14.51	-.0058	PASS	
					0	-5.85	-.00234	PASS	
					10	-15.03	-.00601	PASS	
					20	2.40	.00096	PASS	
					30	4.13	.00165	PASS	
					40	-2.85	-.00114	PASS	
					50	-2.52	-.00101	PASS	
			MCH	VN	-30	-11.39	-.00449	PASS	
					-20	-1.26	-.0005	PASS	
					-10	-7.02	-.00277	PASS	
					0	-7.27	-.00287	PASS	
					10	4.05	.0016	PASS	
					20	0.57	.00022	PASS	
					30	-9.60	-.00379	PASS	
					40	-16.01	-.00632	PASS	
			HCH	VN	-30	-6.31	-.00246	PASS	
					-20	6.31	.00246	PASS	
					-10	-6.05	-.00236	PASS	
					0	-18.25	-.00711	PASS	
					10	9.17	.00357	PASS	
					20	-16.98	-.00661	PASS	
					30	-8.78	-.00342	PASS	
					40	-1.90	-.00074	PASS	
			10	LCH	VN	-30	-3.39	-.00135	PASS
						-20	-9.47	-.00378	PASS
						-10	-3.55	-.00142	PASS
						0	-12.06	-.00481	PASS
		10				-13.89	-.00554	PASS	
		20				-7.70	-.00307	PASS	
		30				-5.32	-.00212	PASS	
		40				-9.68	-.00386	PASS	
		50		-10.29	-.00411	PASS			
		MCH		VN	-30	-7.74	-.00305	PASS	
					-20	-6.22	-.00245	PASS	
					-10	-5.39	-.00213	PASS	
			0		-4.59	-.00181	PASS		