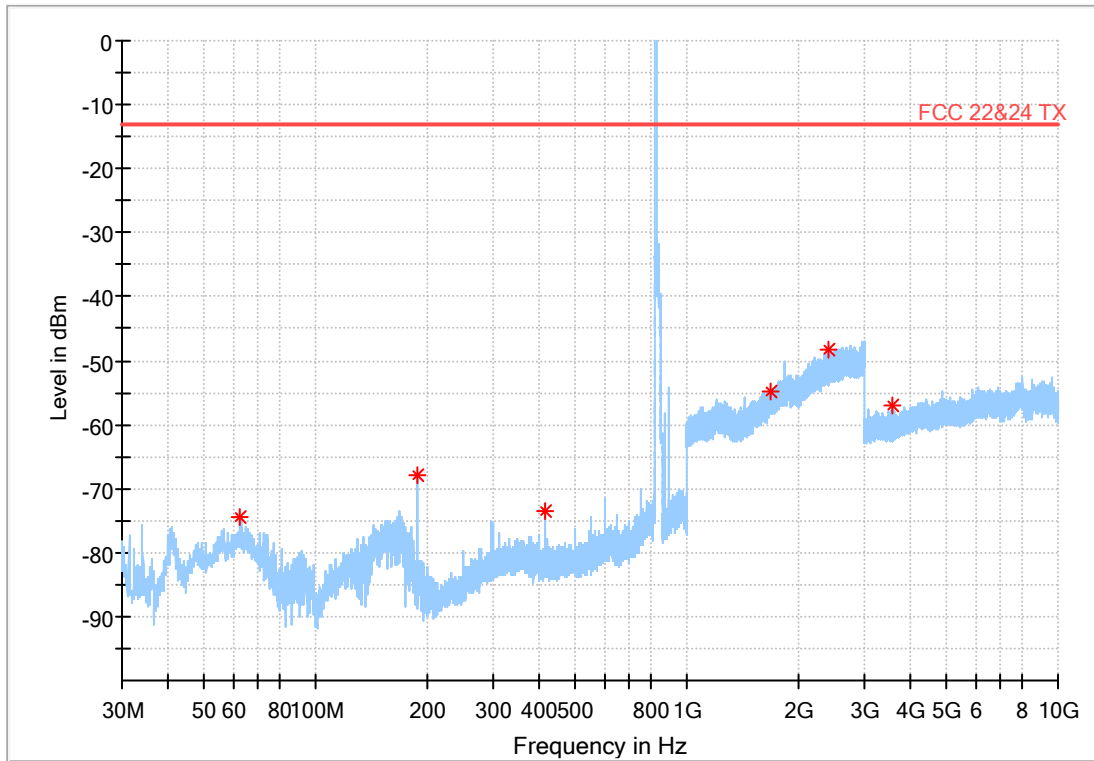




### 7.3.2. Test Channel = LCH\_V

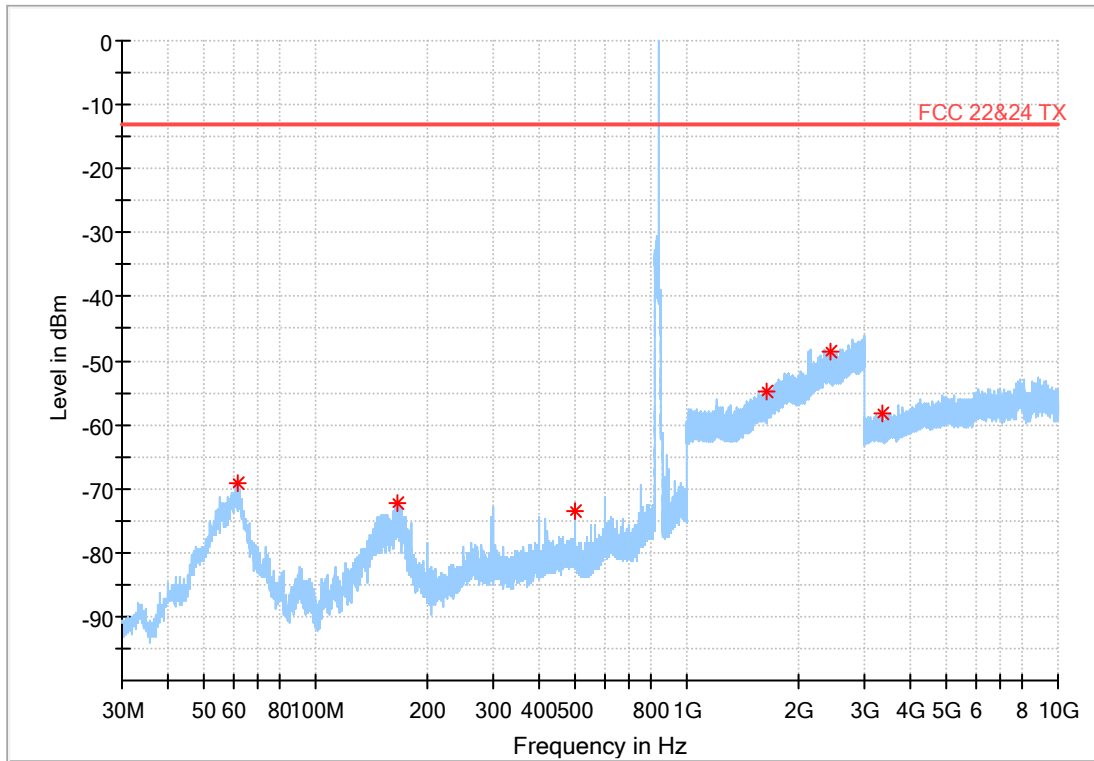
Full Spectrum





### 7.3.3. Test Channel = MCH\_H

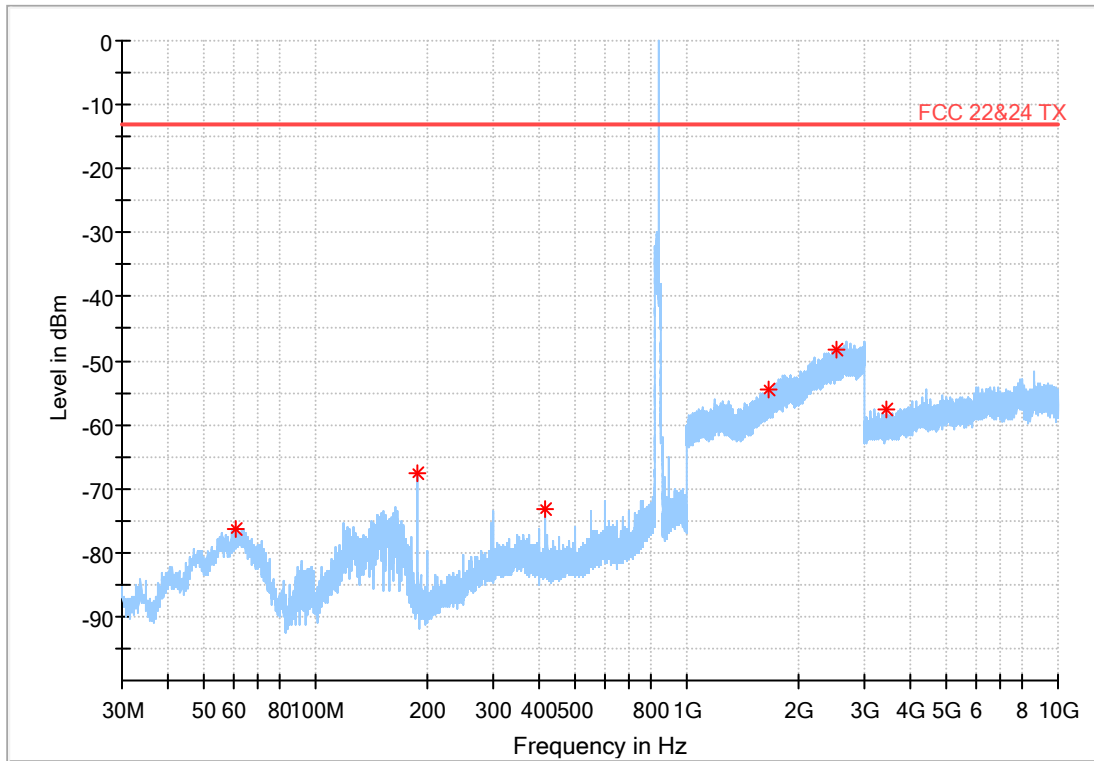
Full Spectrum





### 7.3.4. Test Channel = MCH\_V

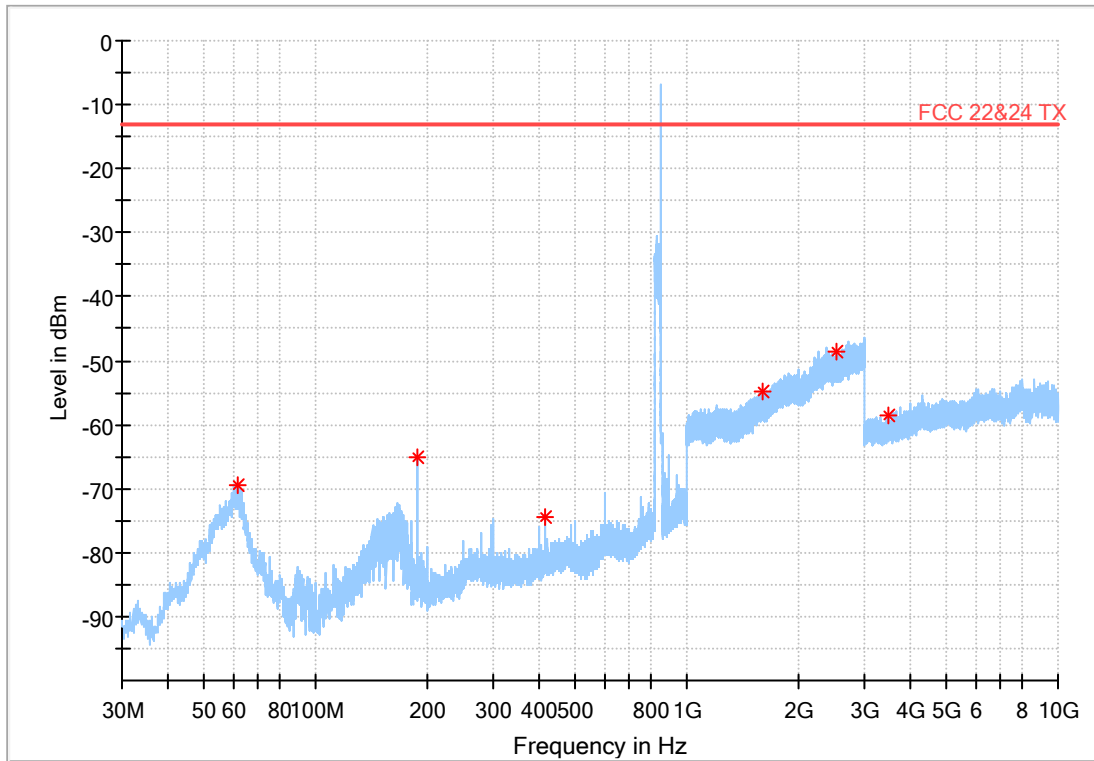
Full Spectrum





### 7.3.5. Test Channel = HCH\_H

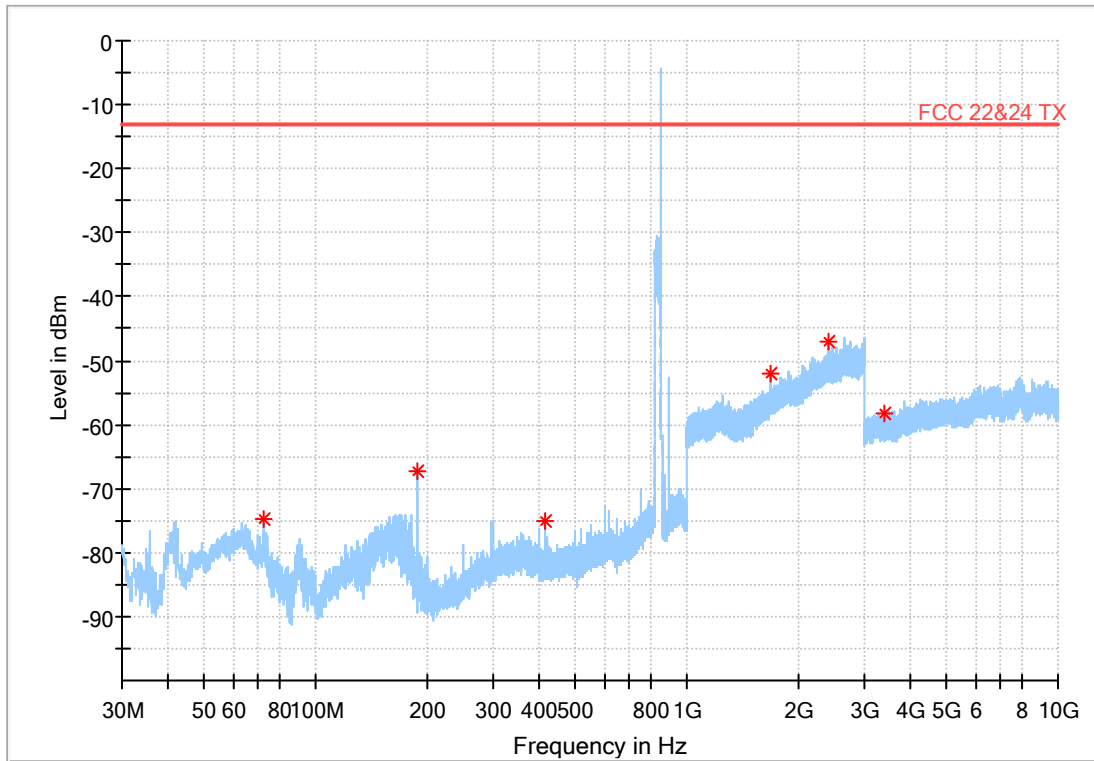
Full Spectrum





### 7.3.6. Test Channel = HCH\_V

Full Spectrum

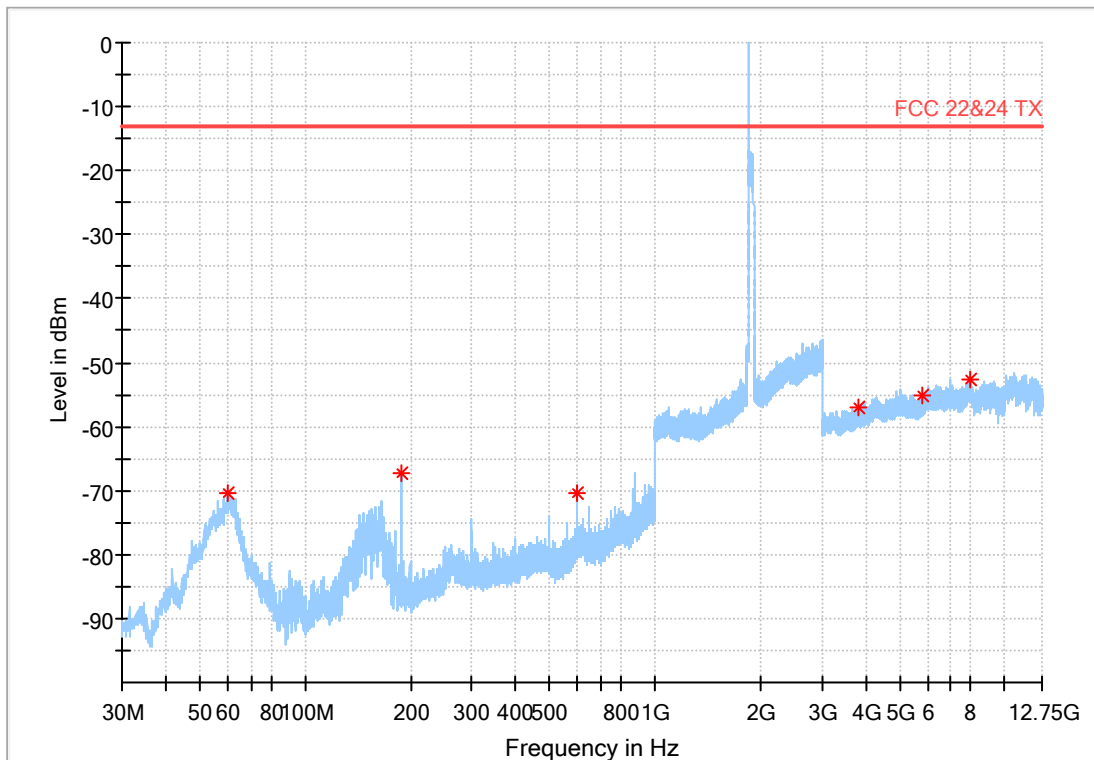




#### 7.4. Test Band = GSM 1900- Second Antenna

##### 7.4.1. Test Channel = LCH\_H

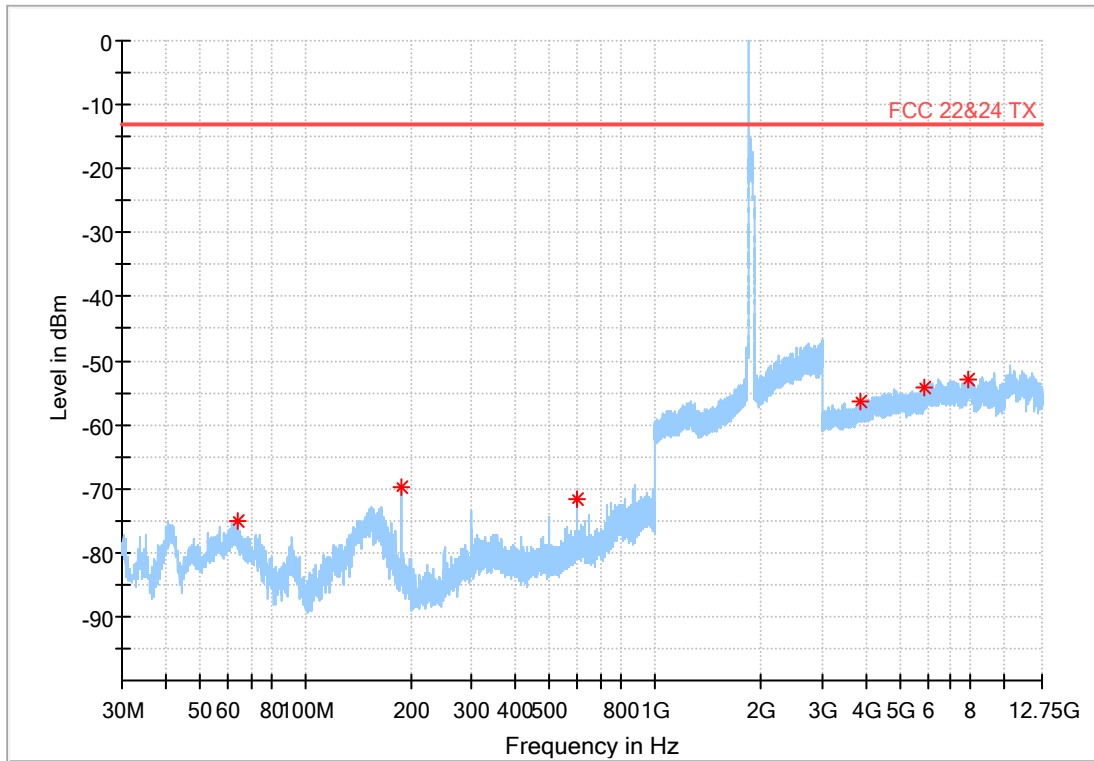
Full Spectrum





### 7.4.2. Test Channel = LCH\_V

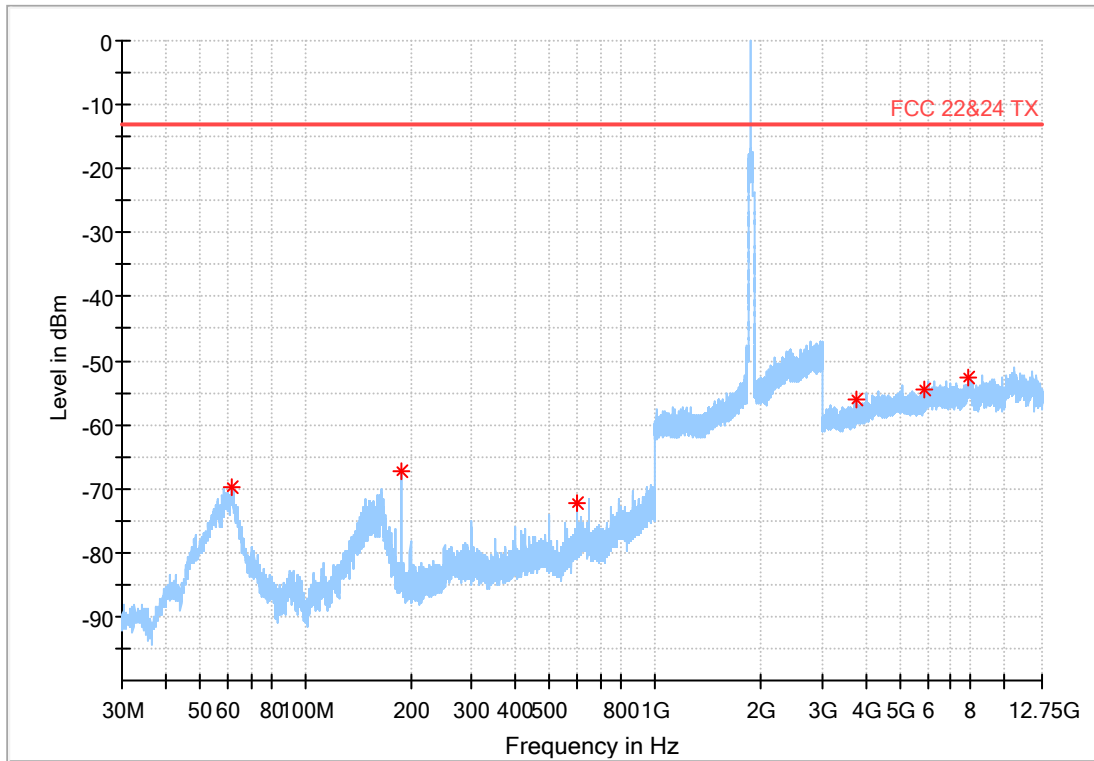
Full Spectrum





### 7.4.3. Test Channel = MCH\_H

Full Spectrum

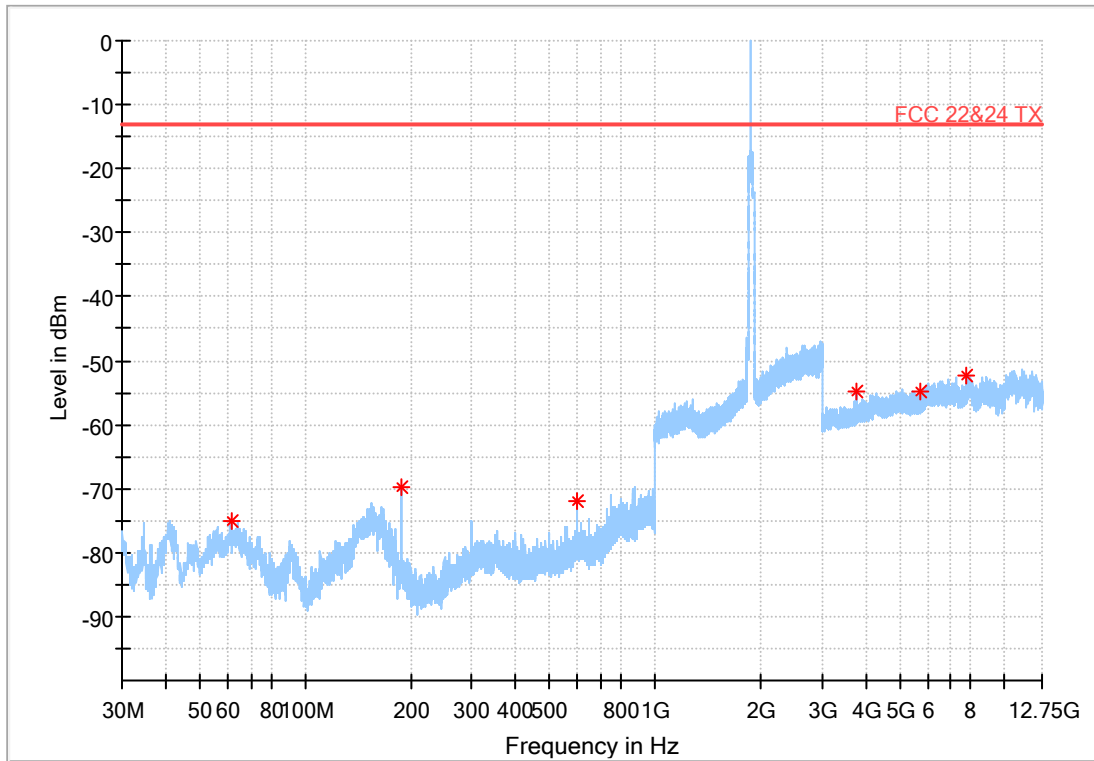






### 7.4.4. Test Channel = MCH\_V

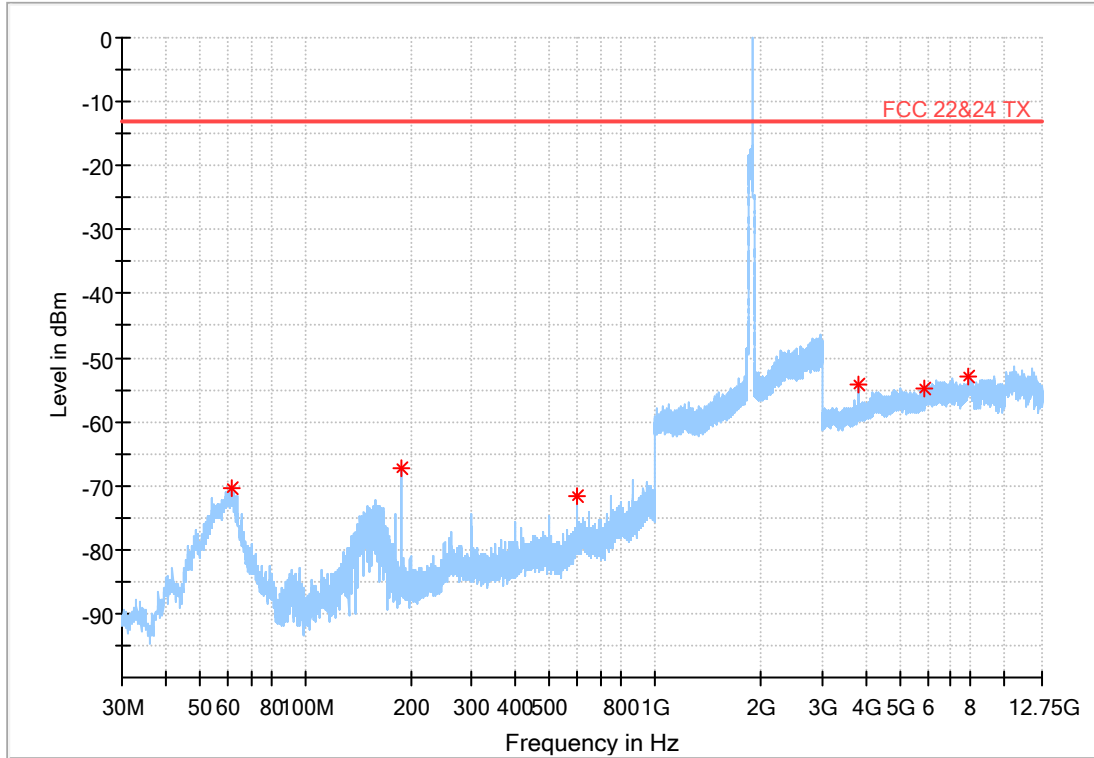
Full Spectrum





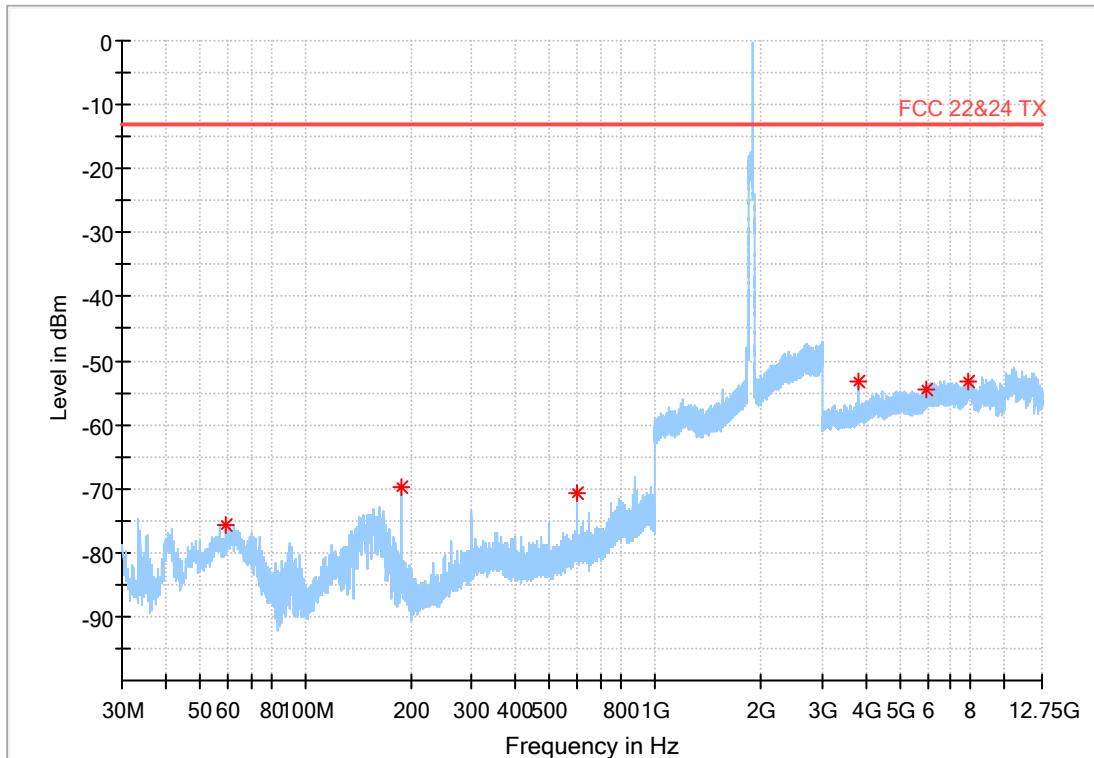
### 7.4.5. Test Channel = HCH\_H

Full Spectrum



### 7.4.6. Test Channel = HCH\_V

Full Spectrum



**NOTE:**

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case had been displayed.
- 2) We have tested all modulation and channels, but only the worst case data was displayed in this report.



## 8. Frequency Stability

### 8.1. Frequency Error Vs Voltage

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	-17.34	-0.021036	2.5	PASS
GSM850	128	VN	TN	-18.37	-0.022289	2.5	PASS
GSM850	128	VH	TN	-20.11	-0.024404	2.5	PASS
GSM850	190	VL	TN	-10.78	-0.012890	2.5	PASS
GSM850	190	VN	TN	-10.33	-0.012349	2.5	PASS
GSM850	190	VH	TN	-8.98	-0.010729	2.5	PASS
GSM850	251	VL	TN	-11.14	-0.013123	2.5	PASS
GSM850	251	VN	TN	-11.78	-0.013884	2.5	PASS
GSM850	251	VH	TN	-10.43	-0.012286	2.5	PASS
EGPRS850	128	VL	TN	-18.21	-0.022093	2.5	PASS
EGPRS850	128	VN	TN	-19.27	-0.023386	2.5	PASS
EGPRS850	128	VH	TN	-19.27	-0.023386	2.5	PASS
EGPRS850	190	VL	TN	-8.49	-0.010150	2.5	PASS
EGPRS850	190	VN	TN	-5.46	-0.006522	2.5	PASS
EGPRS850	190	VH	TN	-6.52	-0.007796	2.5	PASS
EGPRS850	251	VL	TN	-4.04	-0.004755	2.5	PASS
EGPRS850	251	VN	TN	-7.68	-0.009053	2.5	PASS
EGPRS850	251	VH	TN	-5.29	-0.006238	2.5	PASS
GSM1900	512	VL	TN	-0.58	-0.000314	2.5	PASS
GSM1900	512	VN	TN	-6.26	-0.003385	2.5	PASS
GSM1900	512	VH	TN	-3.68	-0.001989	2.5	PASS
GSM1900	661	VL	TN	-25.73	-0.013687	2.5	PASS
GSM1900	661	VN	TN	-21.83	-0.011609	2.5	PASS
GSM1900	661	VH	TN	-26.38	-0.014031	2.5	PASS
GSM1900	810	VL	TN	-12.24	-0.006407	2.5	PASS
GSM1900	810	VN	TN	-12.04	-0.006306	2.5	PASS
GSM1900	810	VH	TN	-10.56	-0.005528	2.5	PASS
EGPRS1900	512	VL	TN	-8.46	-0.004572	2.5	PASS
EGPRS1900	512	VN	TN	-11.24	-0.006073	2.5	PASS
EGPRS1900	512	VH	TN	-17.14	-0.009266	2.5	PASS
EGPRS1900	661	VL	TN	-6.23	-0.003314	2.5	PASS
EGPRS1900	661	VN	TN	-7.26	-0.003864	2.5	PASS
EGPRS1900	661	VH	TN	-8.01	-0.004259	2.5	PASS
EGPRS1900	810	VL	TN	0.68	0.000355	2.5	PASS
EGPRS1900	810	VN	TN	0.19	0.000101	2.5	PASS
EGPRS1900	810	VH	TN	3.42	0.001792	2.5	PASS



**8.2. Frequency Error Vs Temperature**

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	-18.21	-0.022093	2.5	PASS
GSM850	128	VN	-20	-18.14	-0.022015	2.5	PASS
GSM850	128	VN	-10	-19.31	-0.023425	2.5	PASS
GSM850	128	VN	0	-17.05	-0.020683	2.5	PASS
GSM850	128	VN	10	-17.79	-0.021584	2.5	PASS
GSM850	128	VN	20	-19.15	-0.023229	2.5	PASS
GSM850	128	VN	30	-19.40	-0.023543	2.5	PASS
GSM850	128	VN	40	-18.21	-0.022093	2.5	PASS
GSM850	128	VN	50	-16.85	-0.020448	2.5	PASS
GSM850	190	VN	-30	-10.78	-0.012890	2.5	PASS
GSM850	190	VN	-20	-8.14	-0.009725	2.5	PASS
GSM850	190	VN	-10	-10.40	-0.012427	2.5	PASS
GSM850	190	VN	0	-11.17	-0.013353	2.5	PASS
GSM850	190	VN	10	-9.30	-0.011114	2.5	PASS
GSM850	190	VN	20	-8.46	-0.010111	2.5	PASS
GSM850	190	VN	30	-11.07	-0.013237	2.5	PASS
GSM850	190	VN	40	-8.10	-0.009687	2.5	PASS
GSM850	190	VN	50	-9.98	-0.011925	2.5	PASS
GSM850	251	VN	-30	-12.72	-0.014987	2.5	PASS
GSM850	251	VN	-20	-11.36	-0.013389	2.5	PASS
GSM850	251	VN	-10	-11.75	-0.013845	2.5	PASS
GSM850	251	VN	0	-11.85	-0.013960	2.5	PASS
GSM850	251	VN	10	-11.11	-0.013085	2.5	PASS
GSM850	251	VN	20	-11.85	-0.013960	2.5	PASS
GSM850	251	VN	30	-12.56	-0.014796	2.5	PASS
GSM850	251	VN	40	-11.33	-0.013351	2.5	PASS
GSM850	251	VN	50	-11.59	-0.013655	2.5	PASS
EGPRS850	128	VN	-30	-17.85	-0.021662	2.5	PASS
EGPRS850	128	VN	-20	-16.18	-0.019625	2.5	PASS
EGPRS850	128	VN	-10	-17.05	-0.020683	2.5	PASS
EGPRS850	128	VN	0	-16.98	-0.020605	2.5	PASS
EGPRS850	128	VN	10	-15.63	-0.018959	2.5	PASS
EGPRS850	128	VN	20	-16.69	-0.020252	2.5	PASS
EGPRS850	128	VN	30	-16.92	-0.020526	2.5	PASS
EGPRS850	128	VN	40	-19.11	-0.023190	2.5	PASS
EGPRS850	128	VN	50	-17.82	-0.021623	2.5	PASS
EGPRS850	190	VN	-30	-6.88	-0.008220	2.5	PASS
EGPRS850	190	VN	-20	-7.14	-0.008529	2.5	PASS
EGPRS850	190	VN	-10	-5.59	-0.006676	2.5	PASS
EGPRS850	190	VN	0	-6.23	-0.007448	2.5	PASS
EGPRS850	190	VN	10	-6.01	-0.007178	2.5	PASS
EGPRS850	190	VN	20	-6.62	-0.007911	2.5	PASS
EGPRS850	190	VN	30	-7.88	-0.009416	2.5	PASS



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

Report No.: SZEM180700654901

Page: 84 of 85

EGPRS850	190	VN	40	-5.04	-0.006020	2.5	PASS
EGPRS850	190	VN	50	-5.20	-0.006213	2.5	PASS
EGPRS850	251	VN	-30	-4.26	-0.005021	2.5	PASS
EGPRS850	251	VN	-20	-3.62	-0.004260	2.5	PASS
EGPRS850	251	VN	-10	-7.14	-0.008406	2.5	PASS
EGPRS850	251	VN	0	-7.14	-0.008406	2.5	PASS
EGPRS850	251	VN	10	-6.17	-0.007265	2.5	PASS
EGPRS850	251	VN	20	-7.68	-0.009053	2.5	PASS
EGPRS850	251	VN	30	-7.10	-0.008368	2.5	PASS
EGPRS850	251	VN	40	-4.88	-0.005744	2.5	PASS
EGPRS850	251	VN	50	-6.91	-0.008140	2.5	PASS
GSM1900	512	VN	-30	-0.97	-0.000523	2.5	PASS
GSM1900	512	VN	-20	-3.29	-0.001780	2.5	PASS
GSM1900	512	VN	-10	-2.87	-0.001553	2.5	PASS
GSM1900	512	VN	0	-4.65	-0.002513	2.5	PASS
GSM1900	512	VN	10	-3.23	-0.001745	2.5	PASS
GSM1900	512	VN	20	-3.07	-0.001658	2.5	PASS
GSM1900	512	VN	30	-1.97	-0.001064	2.5	PASS
GSM1900	512	VN	40	-4.84	-0.002617	2.5	PASS
GSM1900	512	VN	50	-5.62	-0.003036	2.5	PASS
GSM1900	661	VN	-30	-23.18	-0.012330	2.5	PASS
GSM1900	661	VN	-20	-25.96	-0.013807	2.5	PASS
GSM1900	661	VN	-10	-23.73	-0.012622	2.5	PASS
GSM1900	661	VN	0	-20.76	-0.011042	2.5	PASS
GSM1900	661	VN	10	-21.41	-0.011386	2.5	PASS
GSM1900	661	VN	20	-21.66	-0.011523	2.5	PASS
GSM1900	661	VN	30	-28.77	-0.015301	2.5	PASS
GSM1900	661	VN	40	-25.15	-0.013378	2.5	PASS
GSM1900	661	VN	50	-23.18	-0.012330	2.5	PASS
GSM1900	810	VN	-30	-14.88	-0.007793	2.5	PASS
GSM1900	810	VN	-20	-8.39	-0.004395	2.5	PASS
GSM1900	810	VN	-10	-10.62	-0.005562	2.5	PASS
GSM1900	810	VN	0	-9.33	-0.004886	2.5	PASS
GSM1900	810	VN	10	-11.46	-0.006001	2.5	PASS
GSM1900	810	VN	20	-11.95	-0.006255	2.5	PASS
GSM1900	810	VN	30	-11.75	-0.006154	2.5	PASS
GSM1900	810	VN	40	-11.53	-0.006035	2.5	PASS
GSM1900	810	VN	50	-9.85	-0.005156	2.5	PASS
EGPRS1900	512	VN	-30	-10.33	-0.005584	2.5	PASS
EGPRS1900	512	VN	-20	-13.24	-0.007154	2.5	PASS
EGPRS1900	512	VN	-10	-15.59	-0.008428	2.5	PASS
EGPRS1900	512	VN	0	-16.30	-0.008812	2.5	PASS
EGPRS1900	512	VN	10	-13.40	-0.007242	2.5	PASS
EGPRS1900	512	VN	20	-15.72	-0.008498	2.5	PASS
EGPRS1900	512	VN	30	-16.82	-0.009091	2.5	PASS
EGPRS1900	512	VN	40	-11.91	-0.006439	2.5	PASS
EGPRS1900	512	VN	50	-14.27	-0.007713	2.5	PASS
EGPRS1900	661	VN	-30	-5.13	-0.002731	2.5	PASS
EGPRS1900	661	VN	-20	-8.56	-0.004551	2.5	PASS



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

Report No.: SZEM180700654901

Page: 85 of 85

EGPRS1900	661	VN	-10	-8.39	-0.004465	2.5	PASS
EGPRS1900	661	VN	0	-8.52	-0.004534	2.5	PASS
EGPRS1900	661	VN	10	-8.91	-0.004740	2.5	PASS
EGPRS1900	661	VN	20	-9.98	-0.005307	2.5	PASS
EGPRS1900	661	VN	30	-9.30	-0.004946	2.5	PASS
EGPRS1900	661	VN	40	-8.43	-0.004482	2.5	PASS
EGPRS1900	661	VN	50	-12.53	-0.006663	2.5	PASS
EGPRS1900	810	VN	-30	5.88	0.003077	2.5	PASS
EGPRS1900	810	VN	-20	6.81	0.003567	2.5	PASS
EGPRS1900	810	VN	-10	-2.55	-0.001336	2.5	PASS
EGPRS1900	810	VN	0	5.97	0.003127	2.5	PASS
EGPRS1900	810	VN	10	1.49	0.000778	2.5	PASS
EGPRS1900	810	VN	20	4.20	0.002198	2.5	PASS
EGPRS1900	810	VN	30	3.62	0.001893	2.5	PASS
EGPRS1900	810	VN	40	5.49	0.002874	2.5	PASS
EGPRS1900	810	VN	50	2.65	0.001386	2.5	PASS

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The End