



Appendix for test report



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1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	32.93	27.86	38.5	PASS
		MCH	32.97	27.89	38.5	PASS
		HCH	32.89	27.77	38.5	PASS
	GSM/TM2	LCH	26.91	21.71	38.5	PASS
		MCH	26.94	21.86	38.5	PASS
		HCH	26.90	21.88	38.5	PASS
WCDMA850	UMTS/TM1	LCH	23.01	17.83	38.5	PASS
		MCH	22.95	17.89	38.5	PASS
		HCH	23.01	17.82	38.5	PASS
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	30.30	31.12	33	PASS
		MCH	30.26	31.03	33	PASS
		HCH	30.35	31.09	33	PASS
	GSM/TM2	LCH	26.00	26.83	33	PASS
		MCH	26.01	26.76	33	PASS
		HCH	26.03	26.92	33	PASS
WCDMA1900	UMTS/TM1	LCH	22.81	23.67	33	PASS
		MCH	22.96	23.72	33	PASS
		HCH	22.56	23.45	33	PASS



Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS



2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM1900	GSM/TM1	LCH	0.12	13	PASS
		MCH	0.12	13	PASS
		HCH	0.12	13	PASS
	GSM/TM2	LCH	3.06	13	PASS
		MCH	3.04	13	PASS
		HCH	3.06	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA1900	UMTS/TM1	LCH	3.00	13	PASS
		MCH	3.09	13	PASS
		HCH	3.08	13	PASS

3Appendix_C: Modulation Characteristics

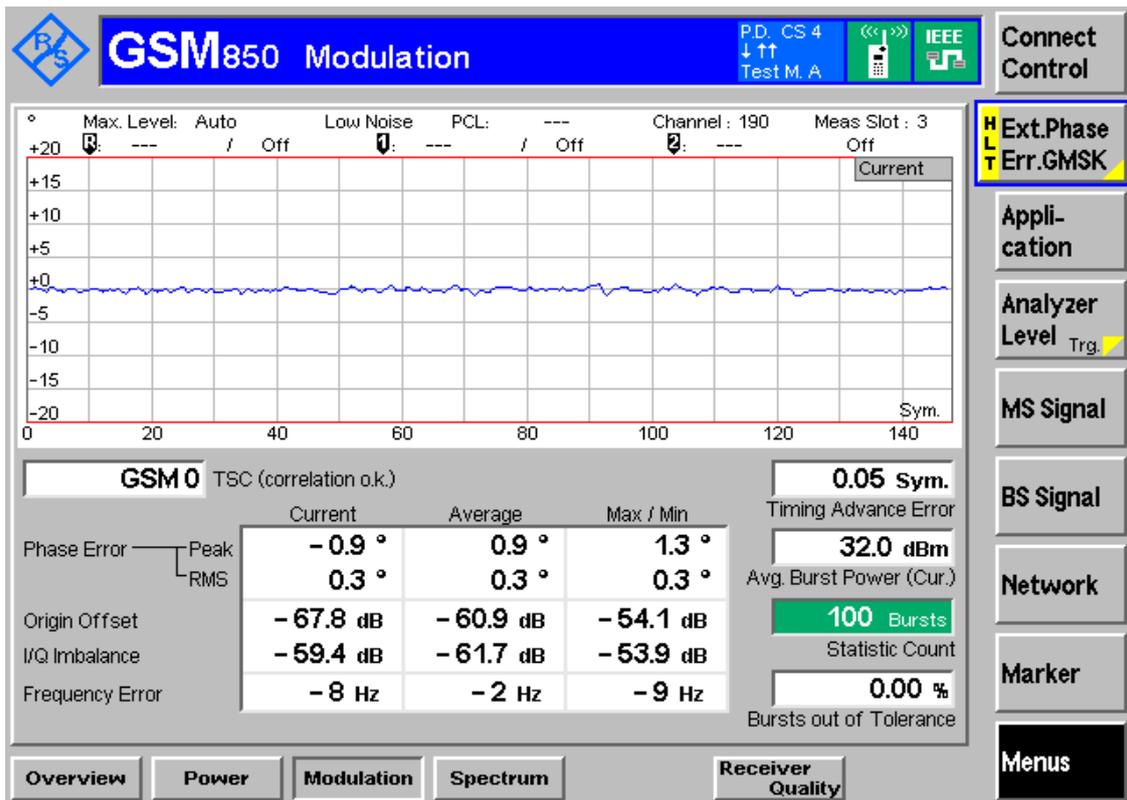
Part I - Test Plots

3.1 For GSM

3.1.1 Test Band = GSM850

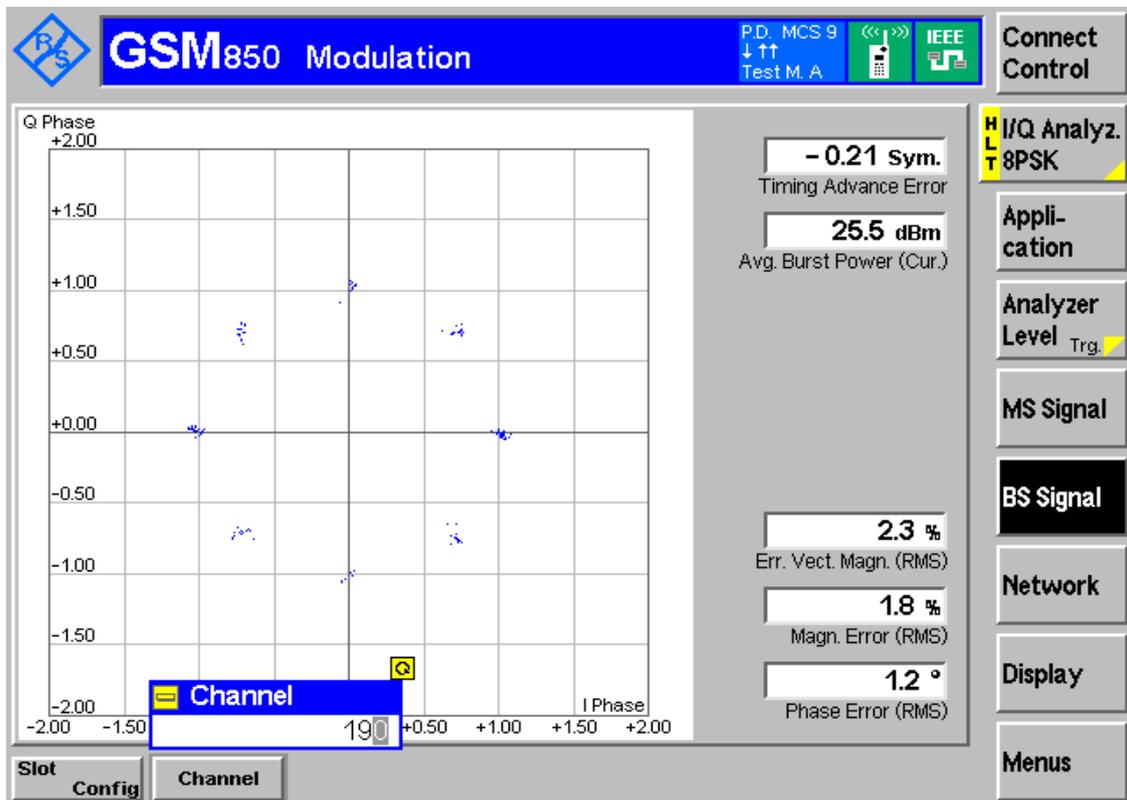
3.1.1.1 Test Mode = GSM/TM1

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = GSM/TM2

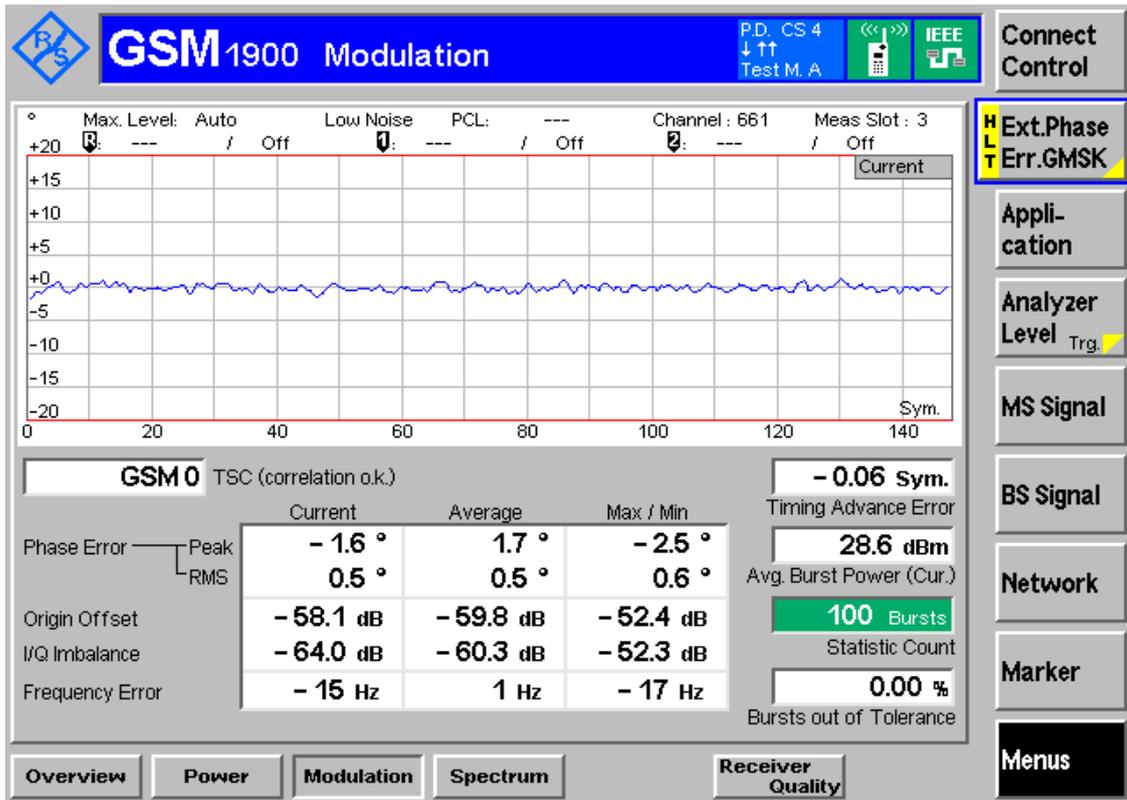
3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM1900

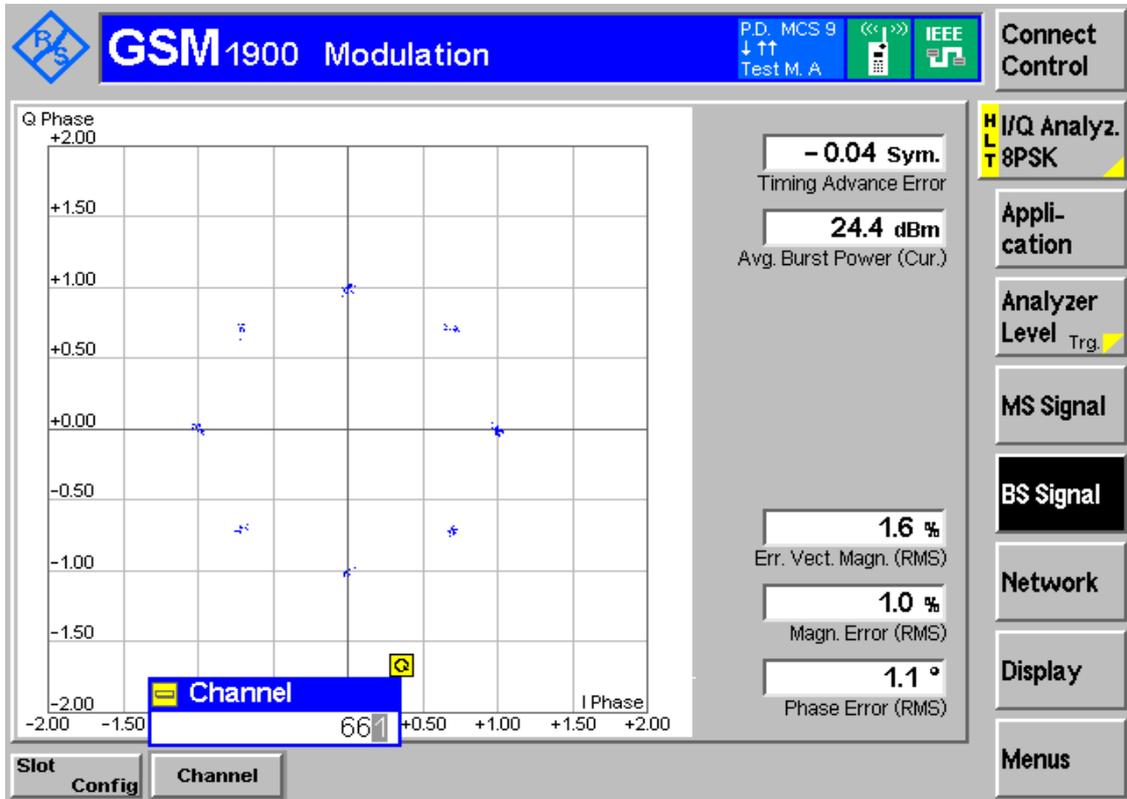
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



3.1.2.2 Test Mode = GSM/TM2

3.1.2.2.1 Test Channel = MCH

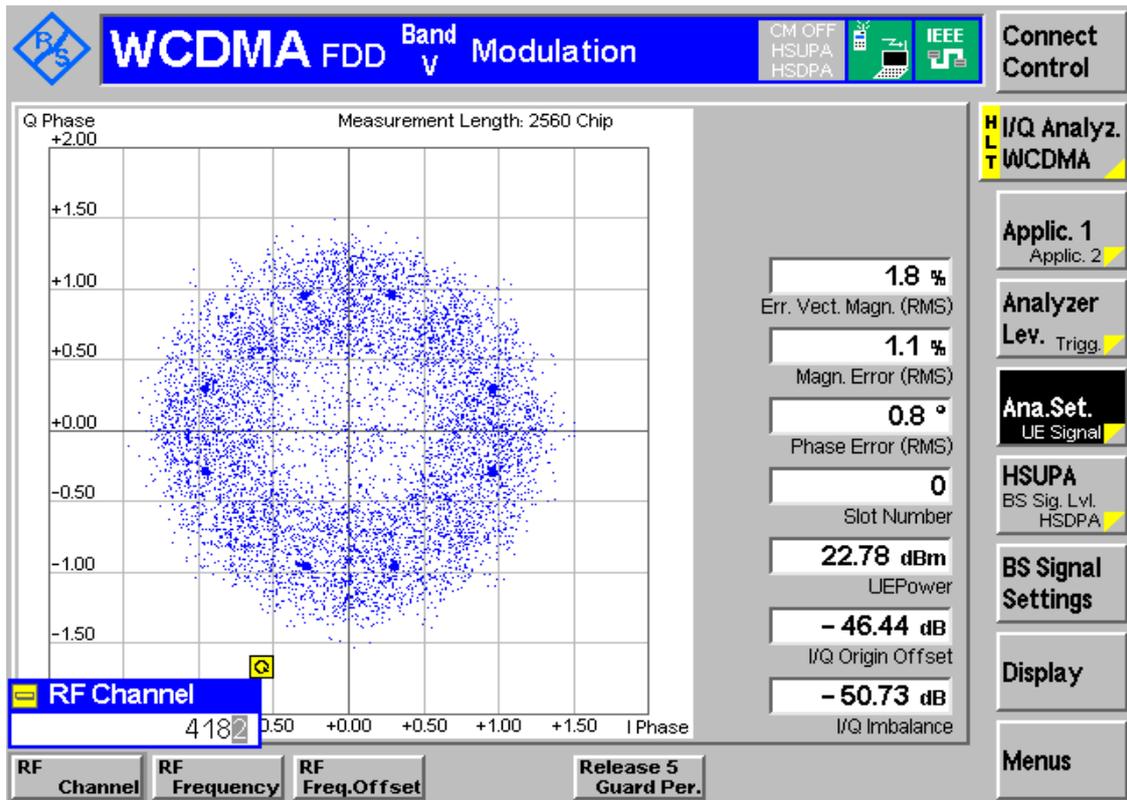


3.2 For UMTS

3.2.1 Test Band = WCDMA850

3.2.1.1 Test Mode = UMTS/TM1

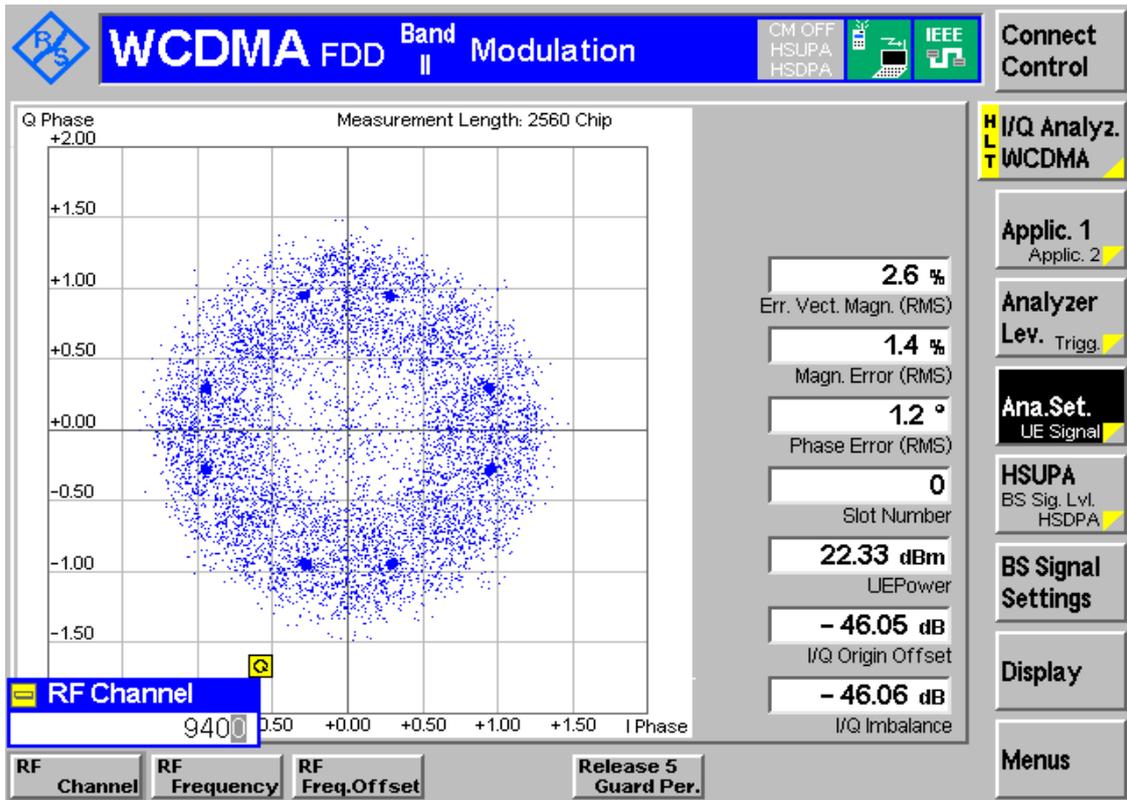
3.2.1.1.1 Test Channel = MCH



3.2.2 Test Band = WCDMA1900

3.2.2.1 Test Mode = UMTS/TM1

3.2.2.1.1 Test Channel = MCH





4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [kHz]	Verdict
GSM850	GSM/TM1	LCH	247.20	317.43	Pass
		MCH	239.79	311.06	Pass
		HCH	245.96	314.17	Pass
	GSM/TM2	LCH	244.67	323.47	Pass
		MCH	242.43	315.74	Pass
		HCH	247.28	306.56	Pass
GSM1900	GSM/TM1	LCH	247.67	311.43	Pass
		MCH	248.23	319.15	Pass
		HCH	245.26	311.39	Pass
	GSM/TM2	LCH	248.73	317.04	Pass
		MCH	244.88	309.27	Pass
		HCH	245.18	314.17	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.15	4.68	Pass
		MCH	4.16	4.69	Pass
		HCH	4.17	4.70	Pass
WCDMA1900	UMTS/TM1	LCH	4.17	4.69	Pass
		MCH	4.15	4.68	Pass
		HCH	4.16	4.70	Pass

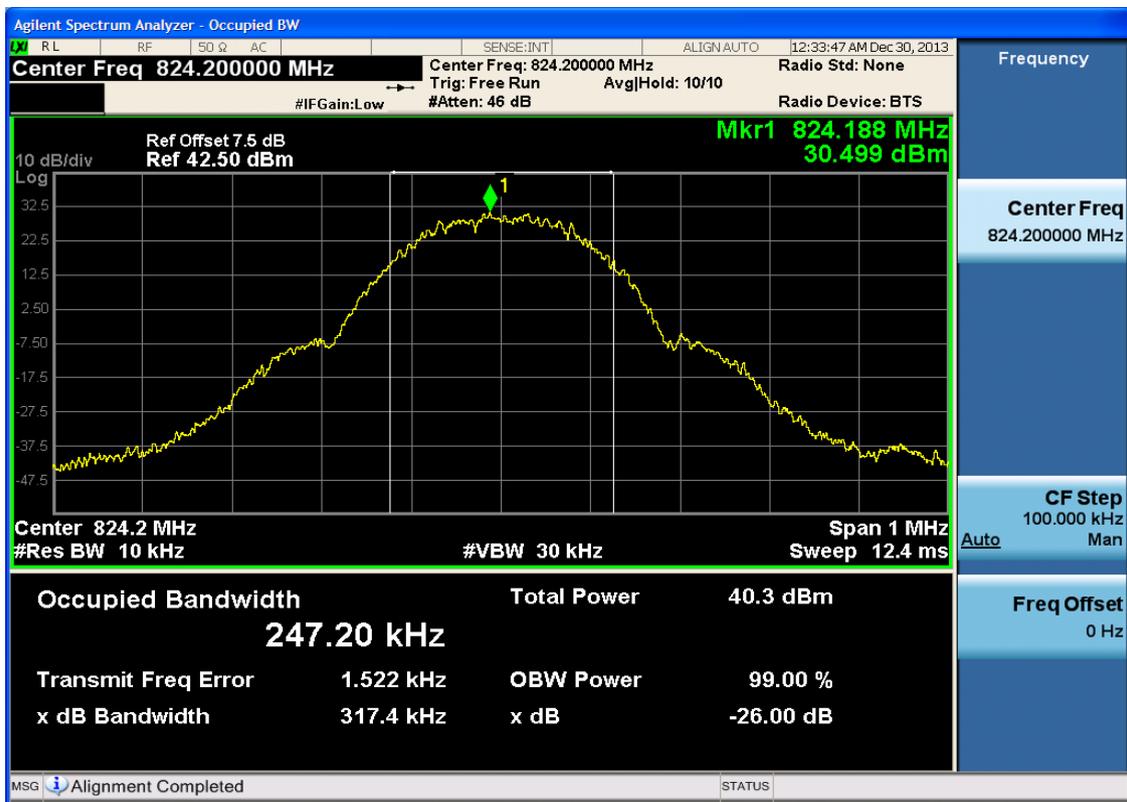
Part II - Test Plots

4.1 For GSM

4.1.1 Test Band = GSM850

4.1.1.1 Test Mode = GSM/TM1

4.1.1.1.1 Test Channel = LCH





4.1.1.1.3 Test Channel = HCH





4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel = LCH



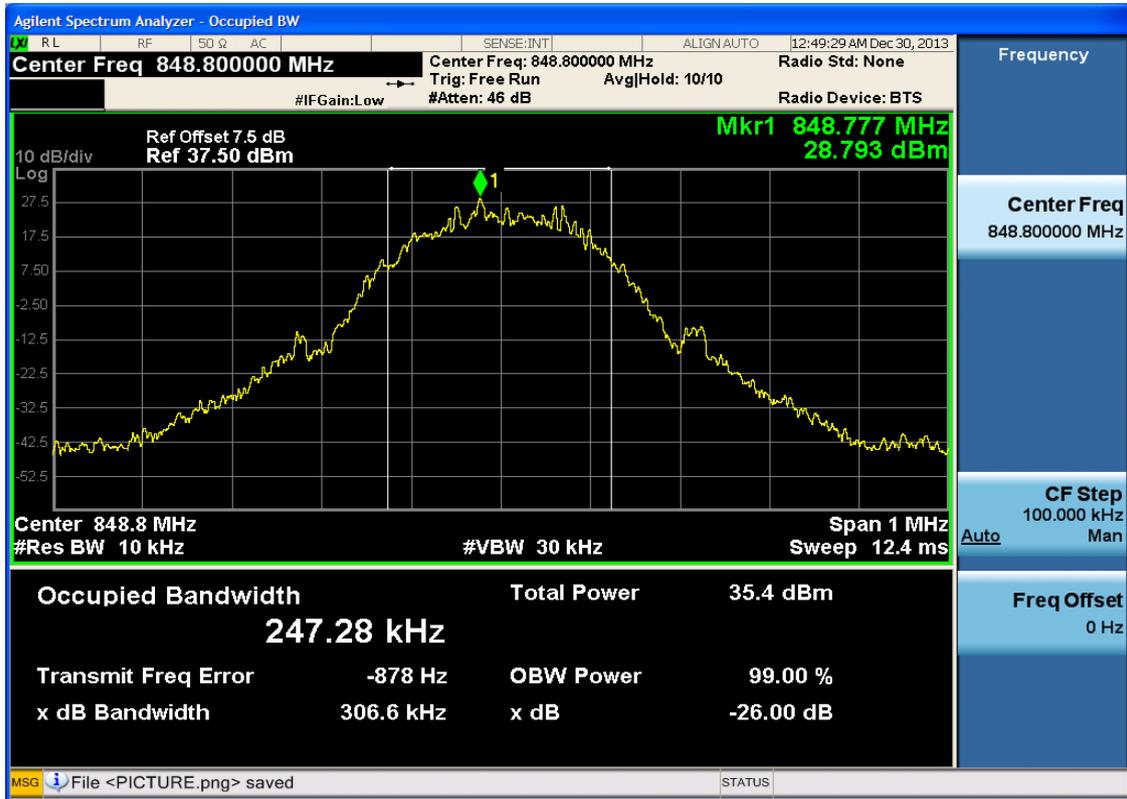


4.1.1.2.2 Test Channel = MCH





4.1.1.2.3 Test Channel = HCH

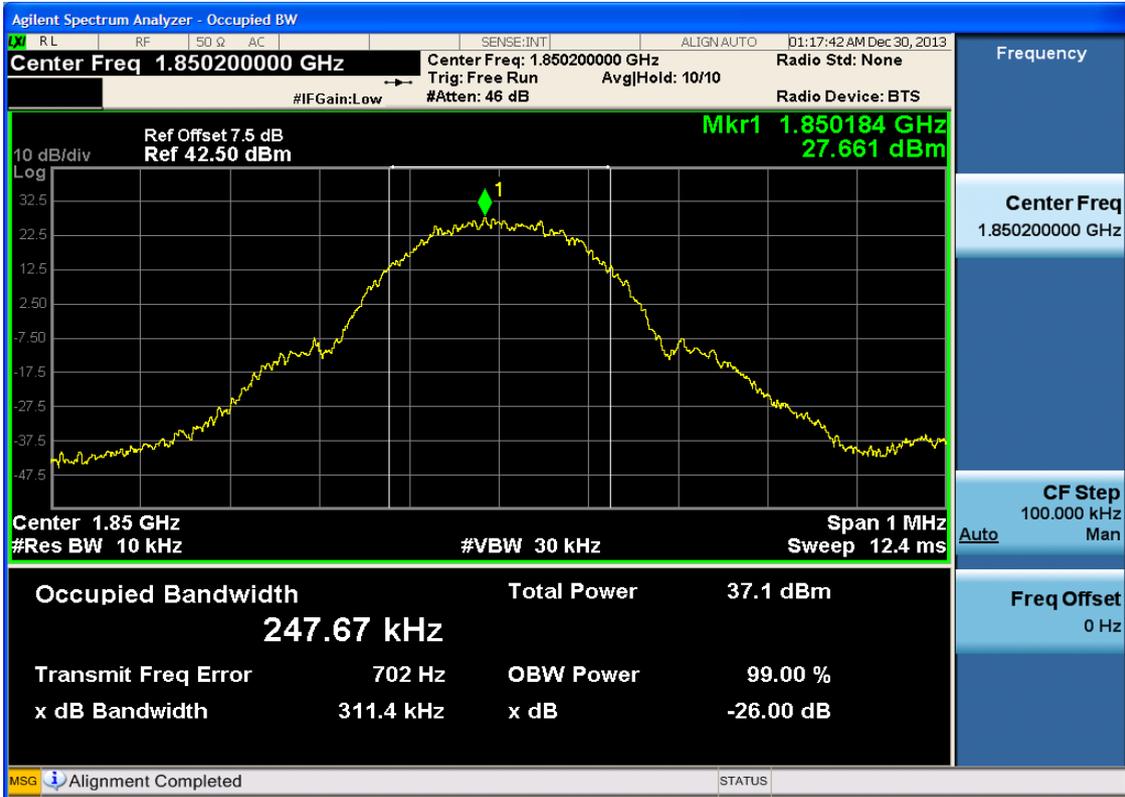




4.1.2 Test Band = GSM1900

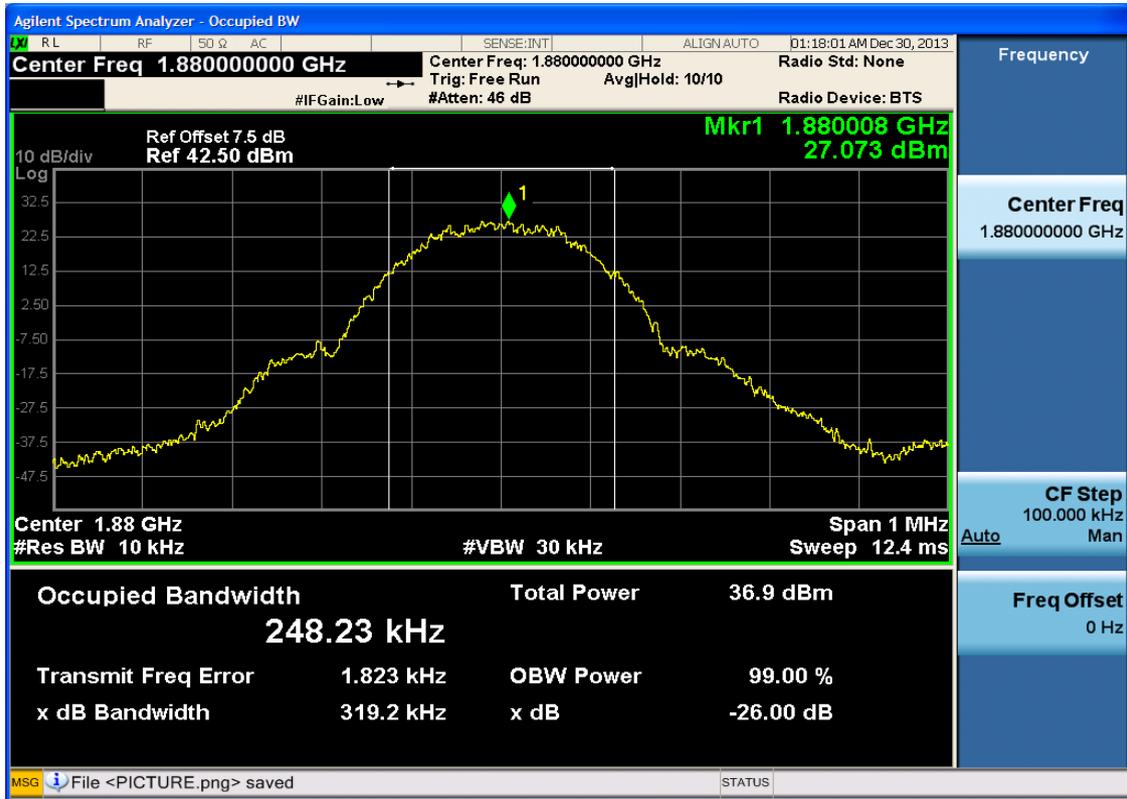
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



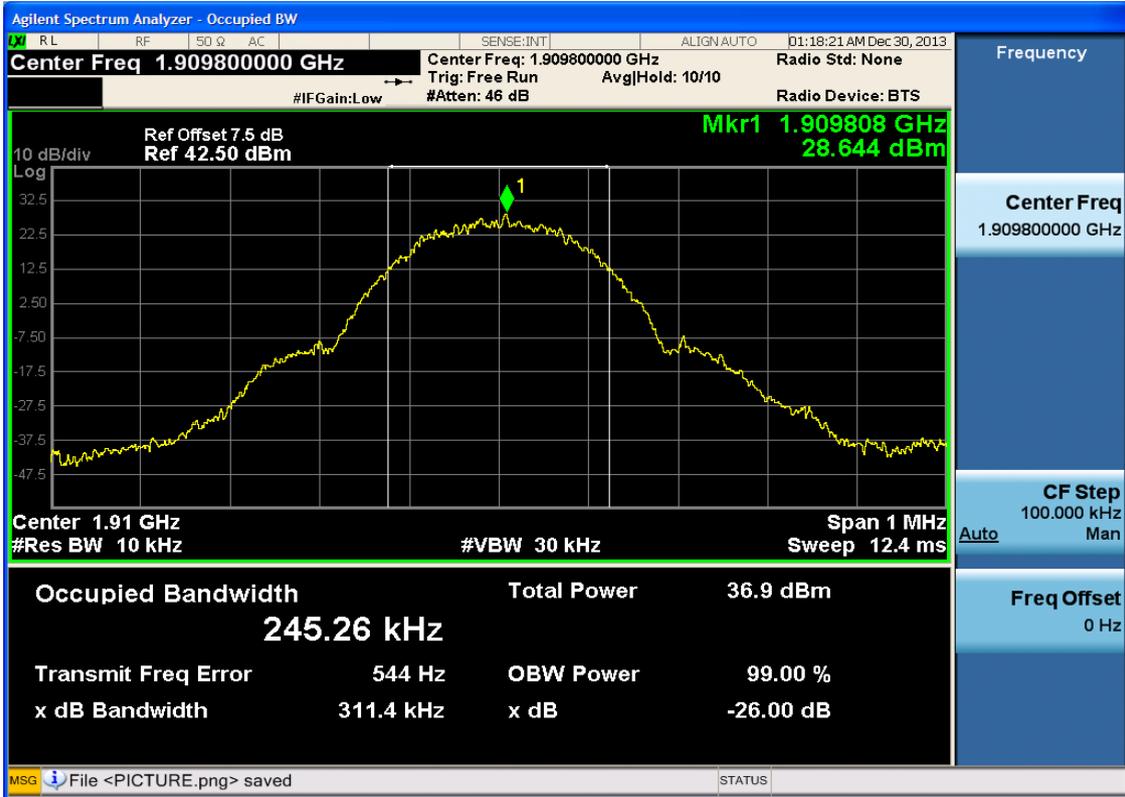


4.1.2.1.2 Test Channel = MCH





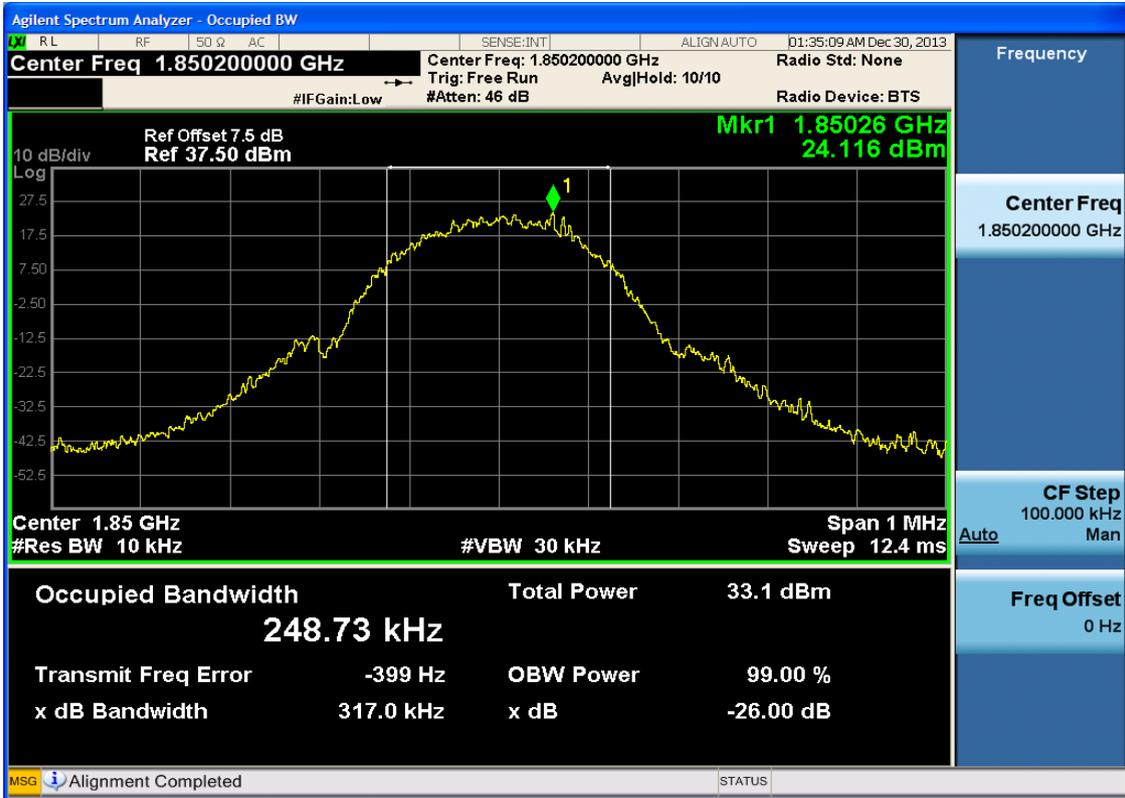
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4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



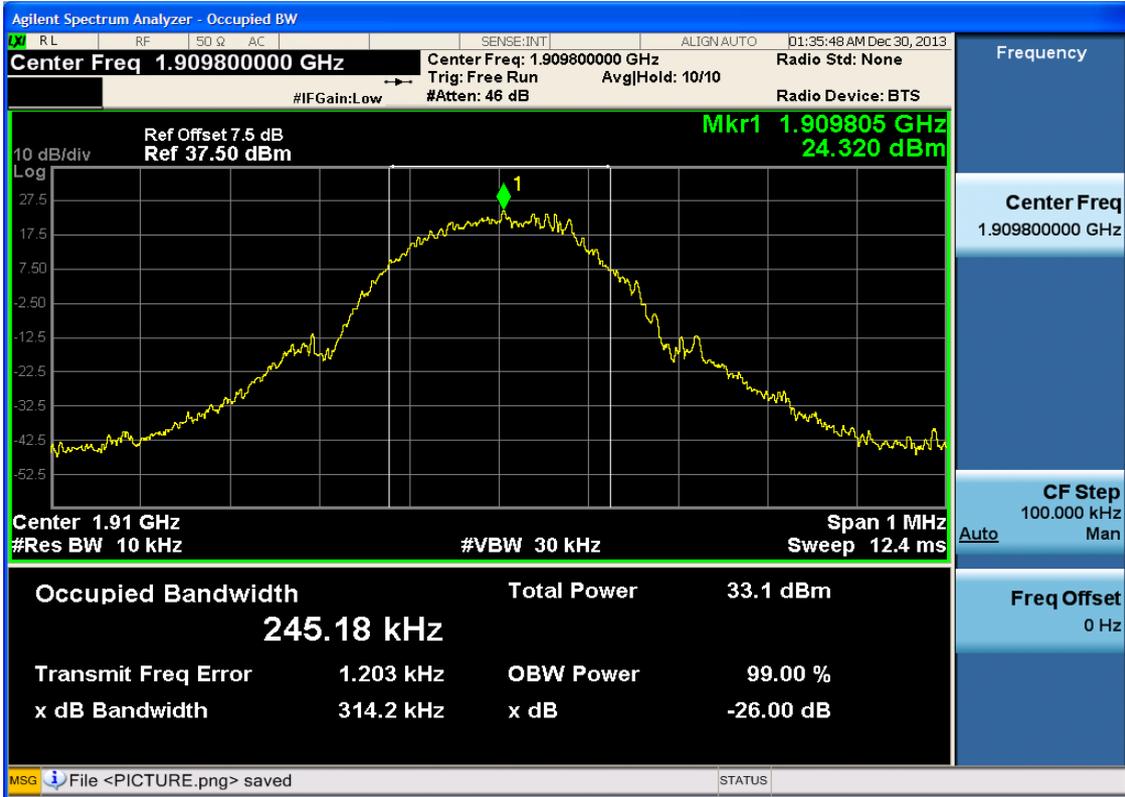


4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH



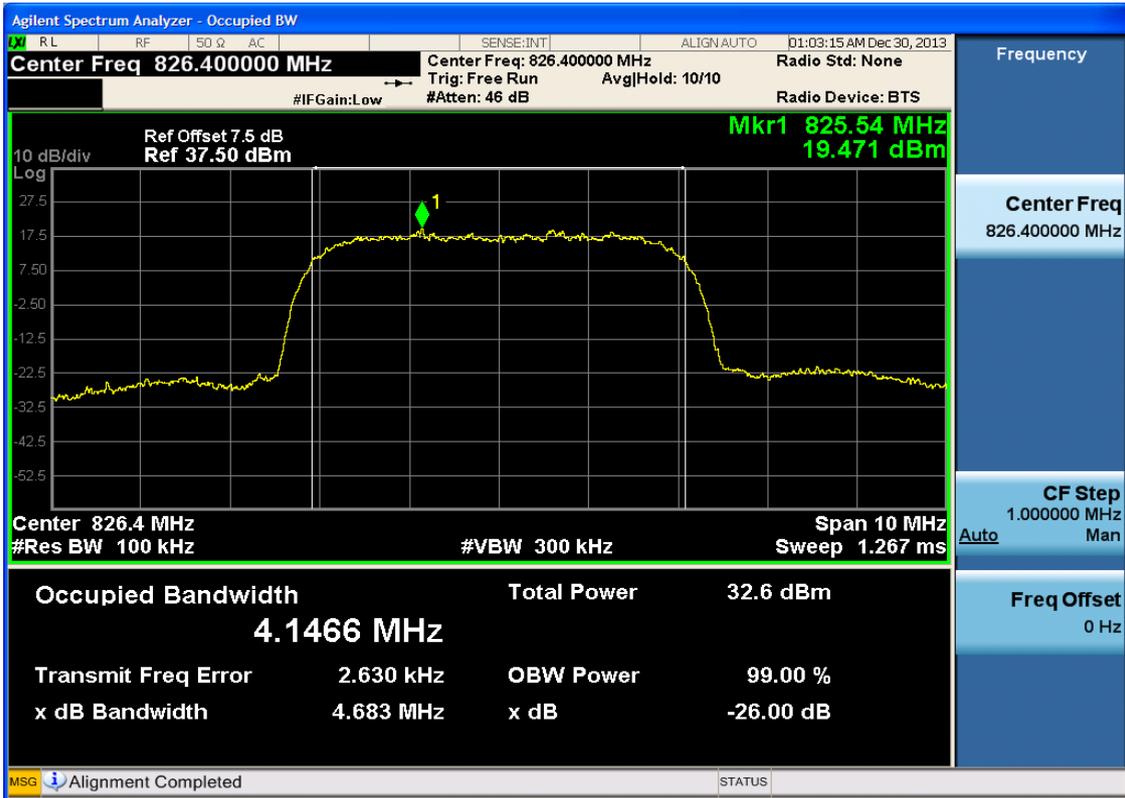


4.2 For UMTS

4.2.1 Test Band = WCDMA850

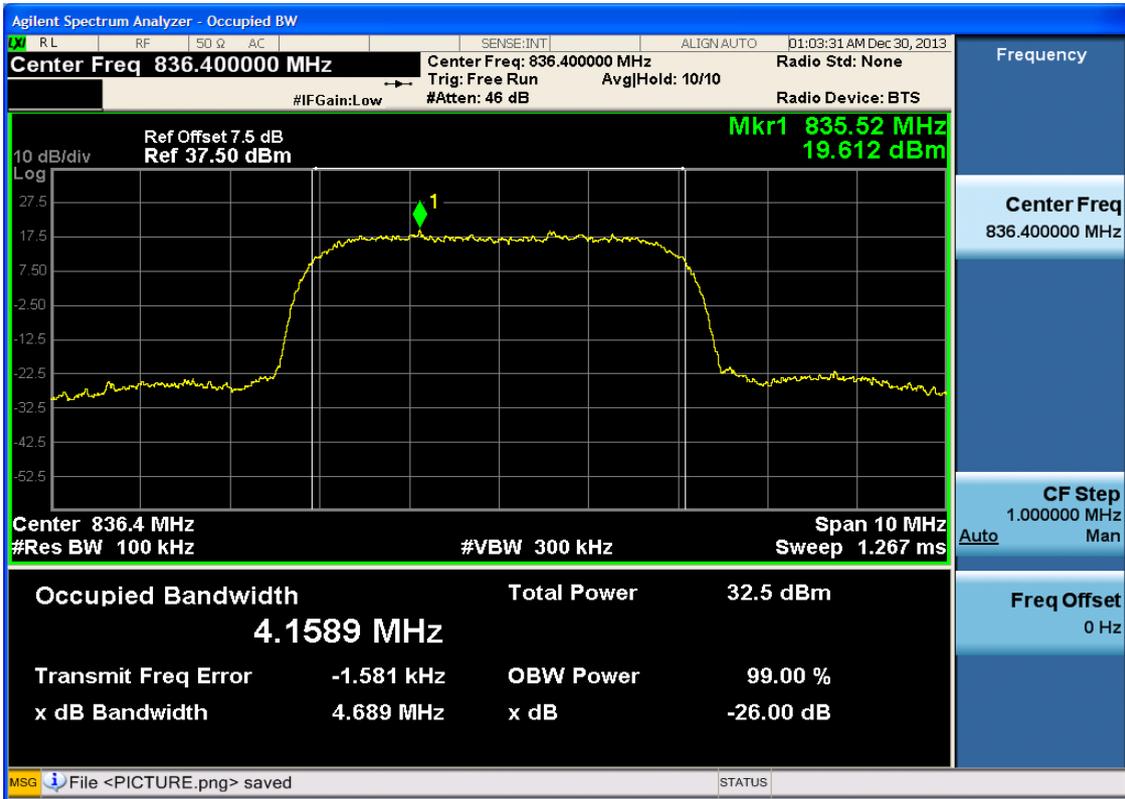
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



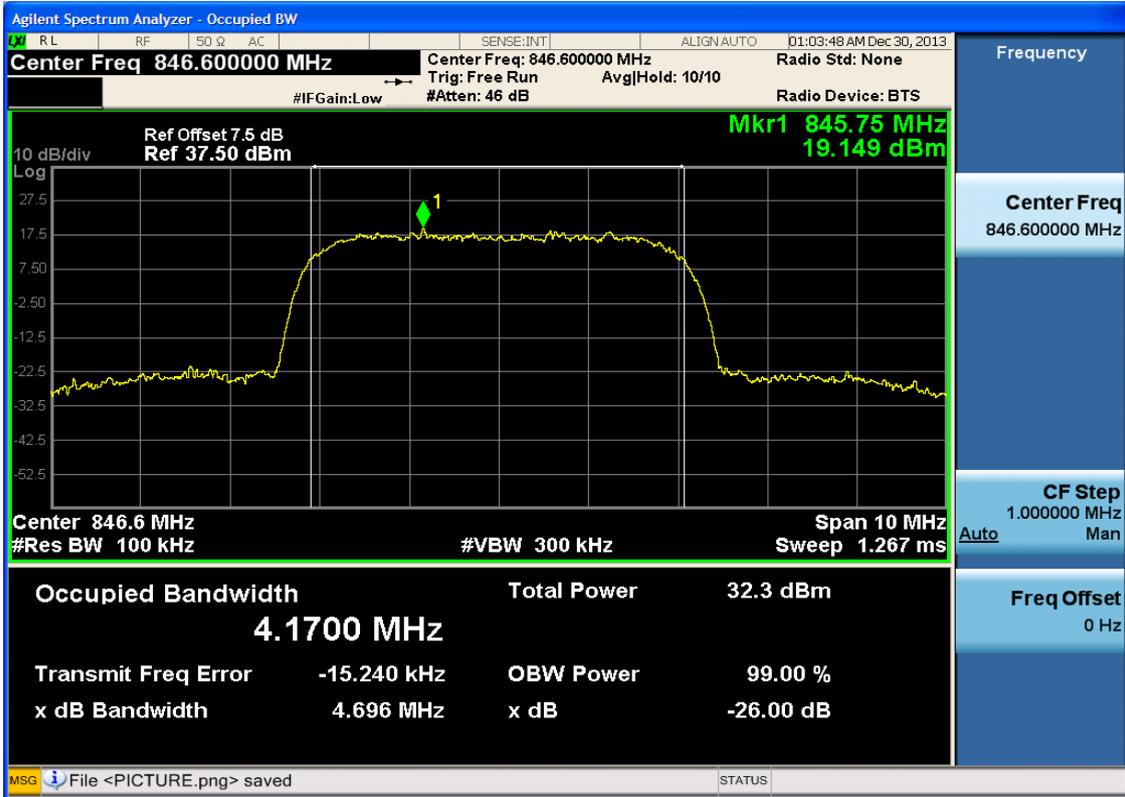


4.2.1.1.2 Test Channel = MCH





4.2.1.1.3 Test Channel = HCH

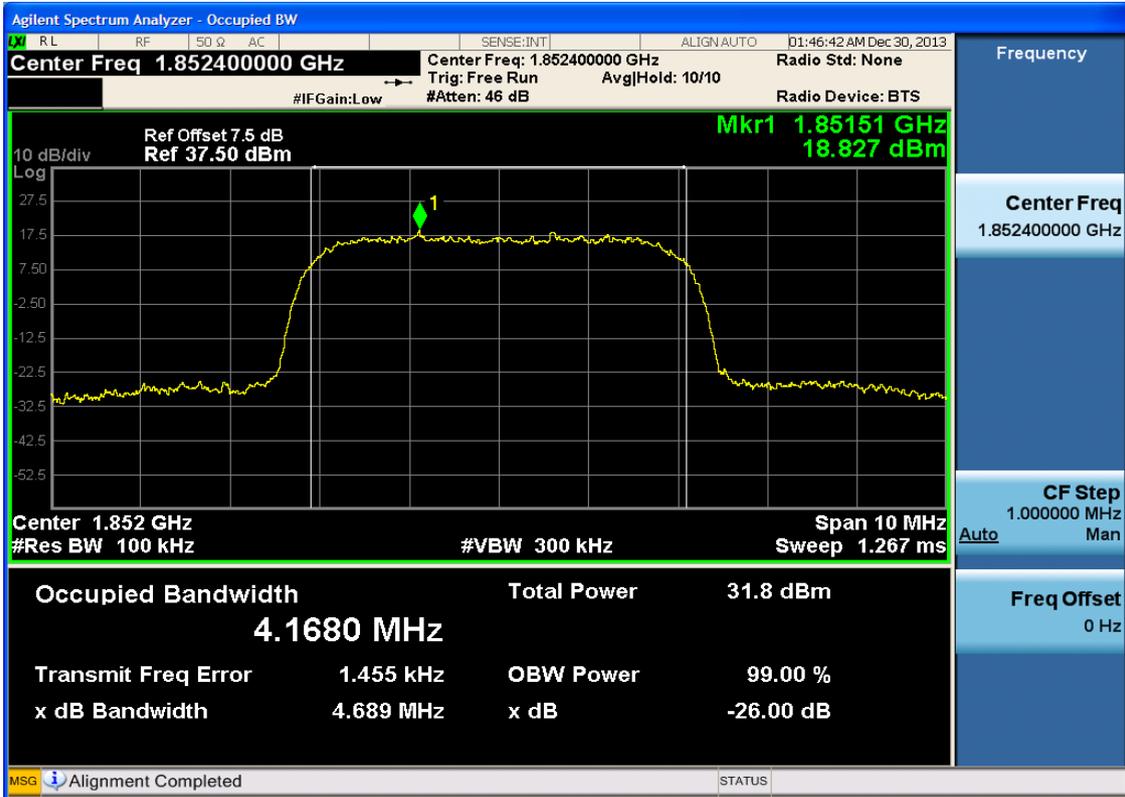




4.2.2 Test Band = WCDMA1900

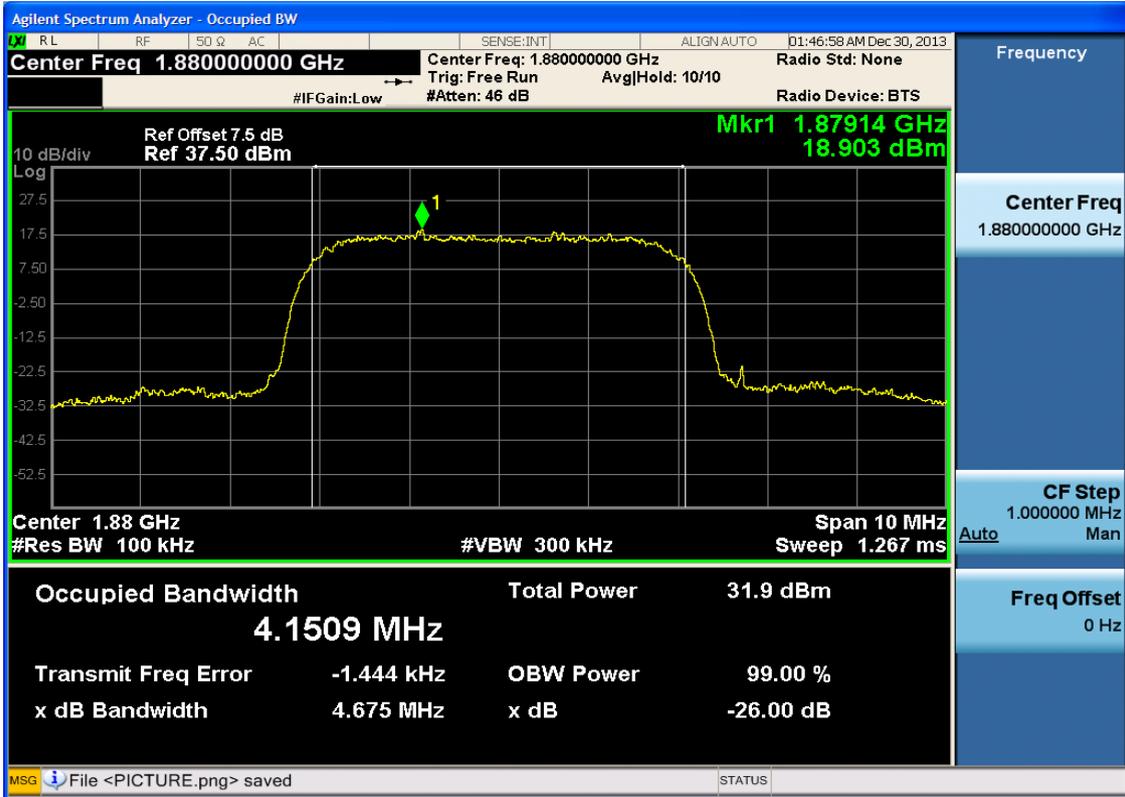
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



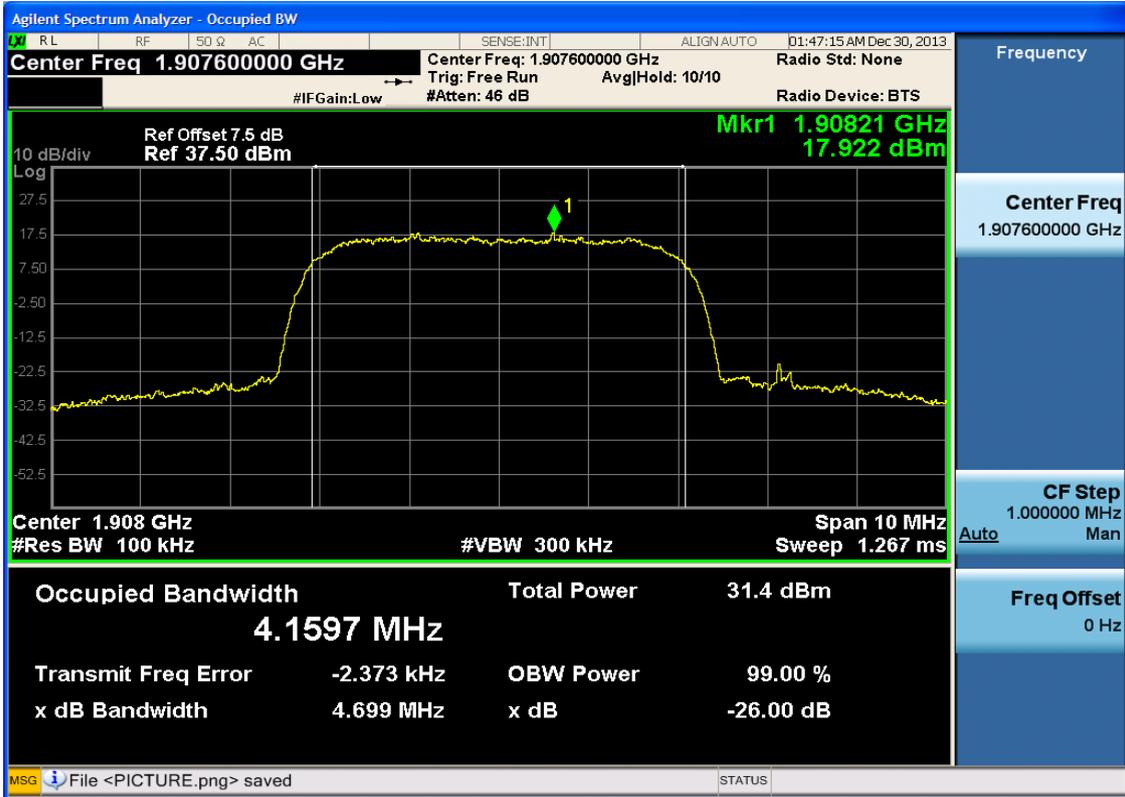


4.2.2.1.2 Test Channel = MCH





4.2.2.1.3 Test Channel = HCH





5Appendix_E: Band Edges Compliance

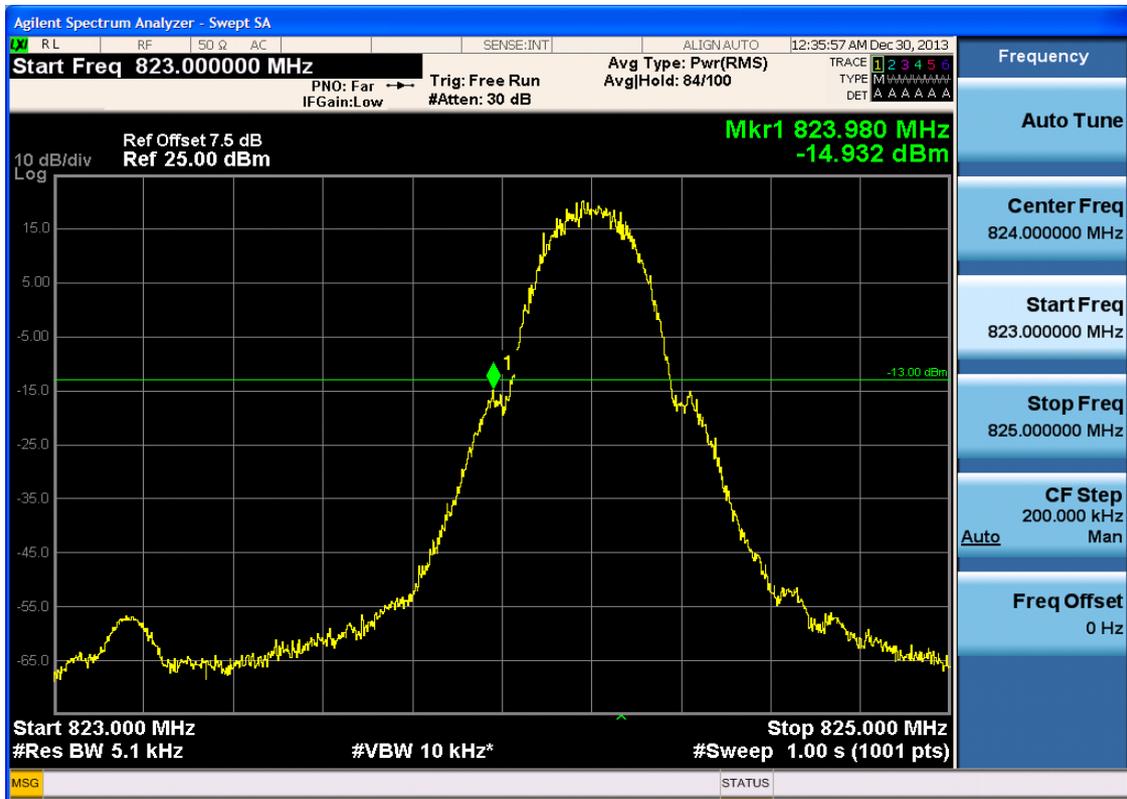
Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

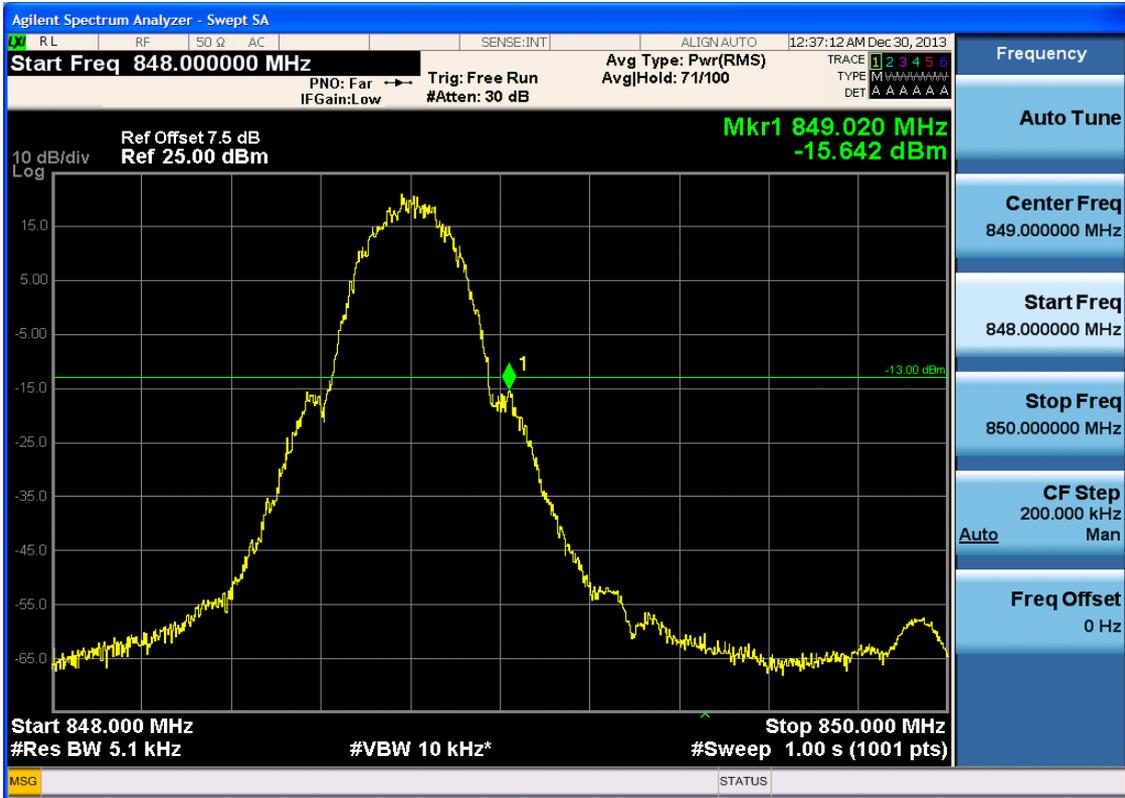
5.1.1.1 Test Mode = GSM/TM1

5.1.1.1.1 Test Channel = LCH





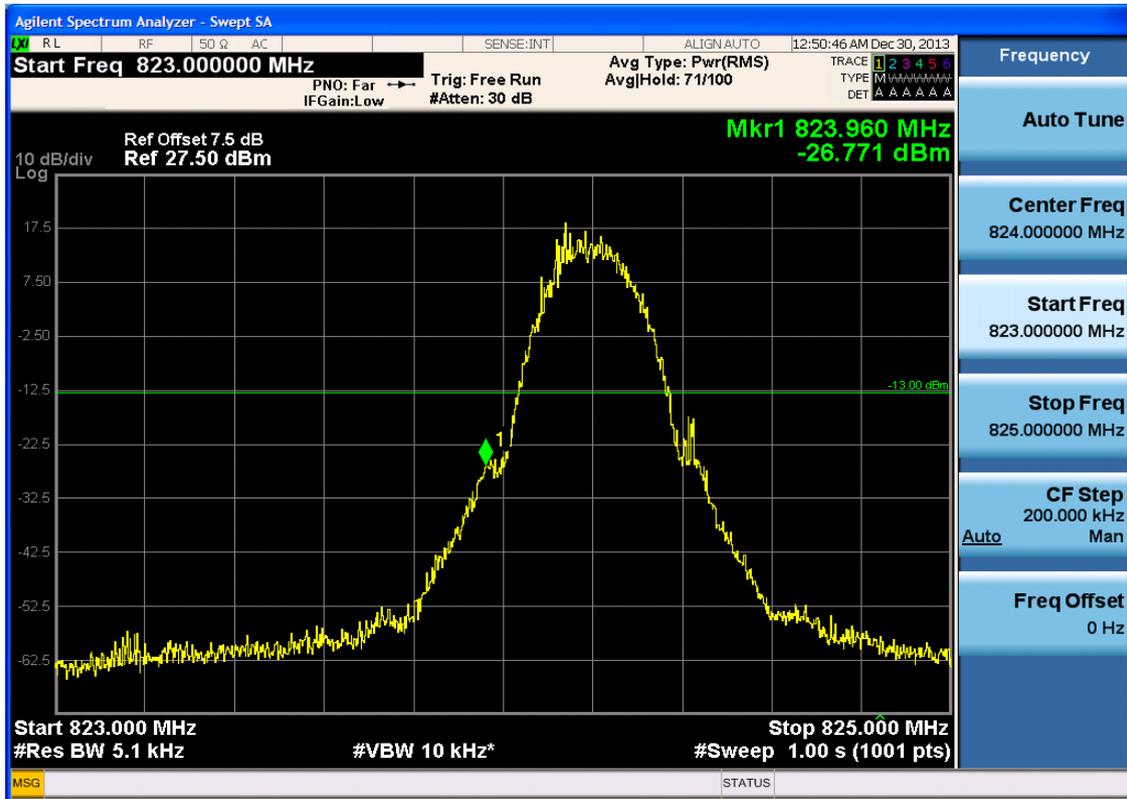
5.1.1.1.2 Test Channel = HCH





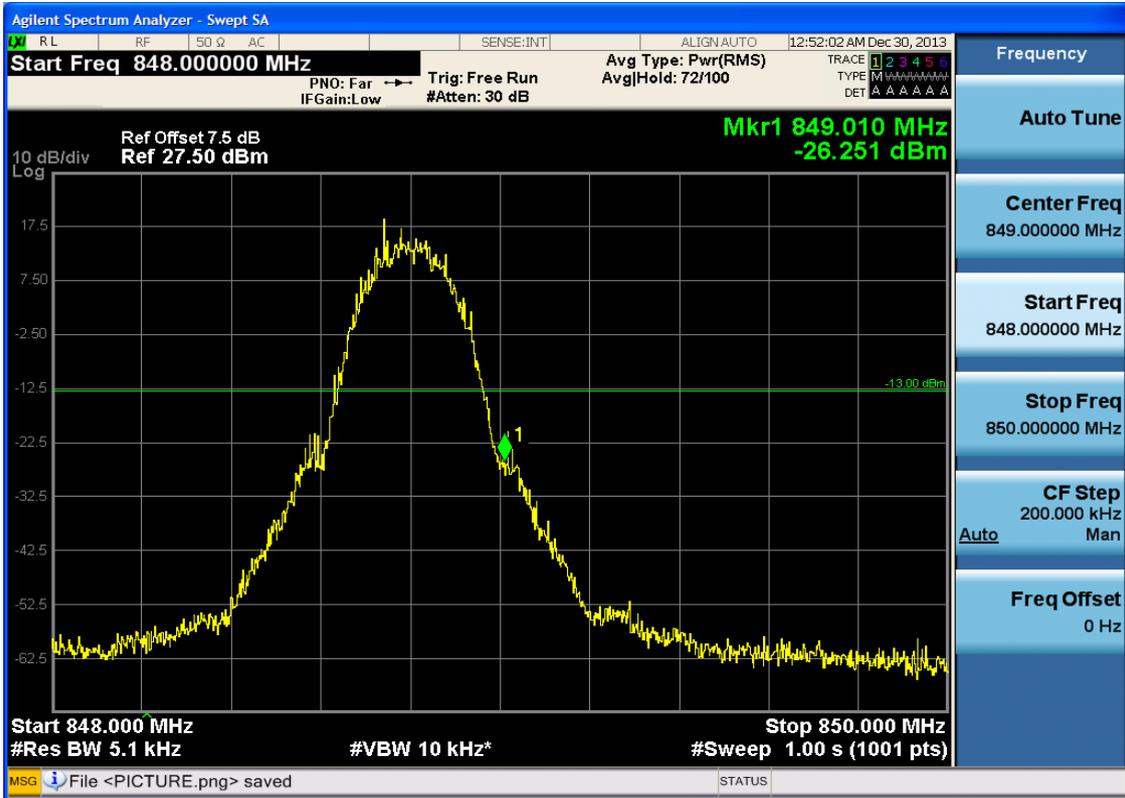
5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH



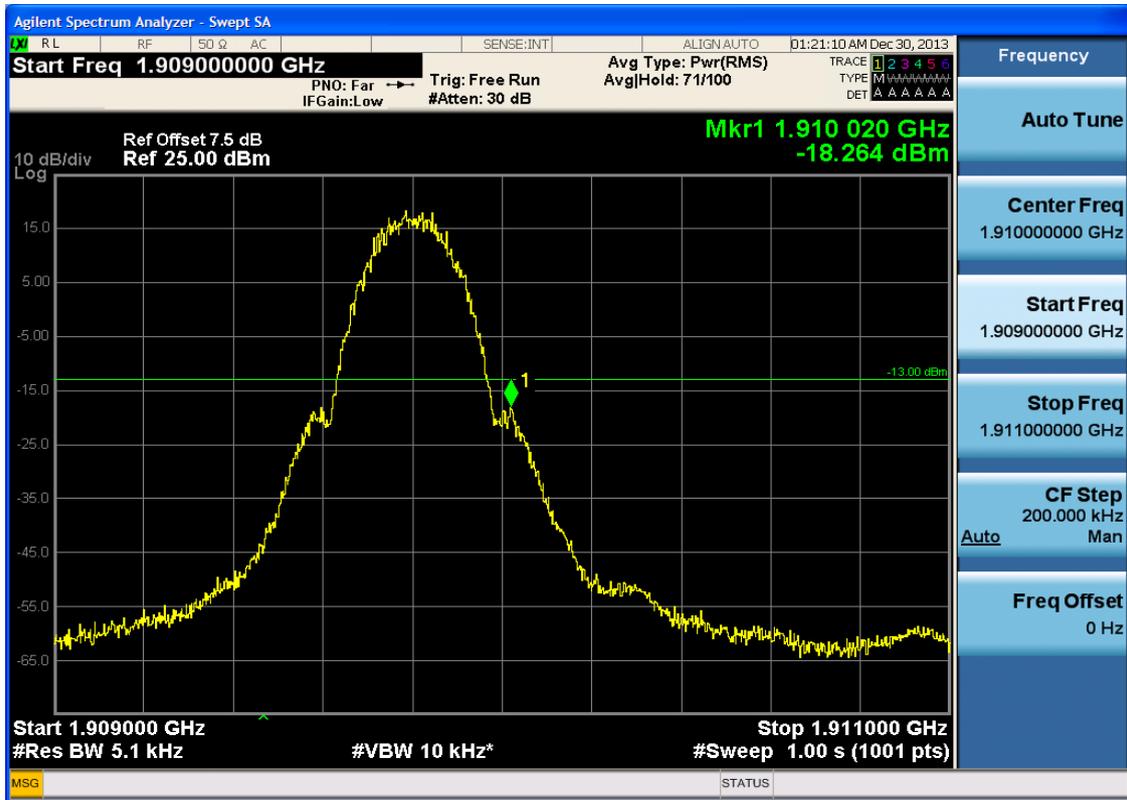


5.1.1.2.2 Test Channel = HCH





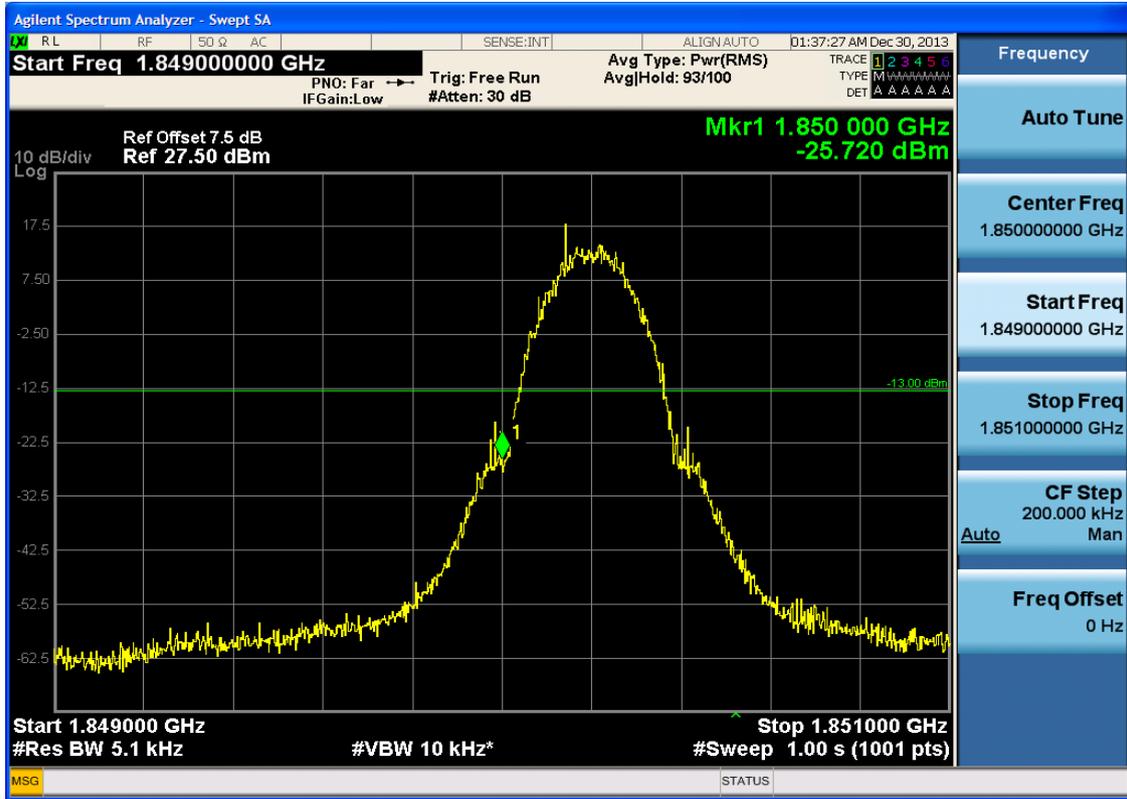
5.1.2.1.2 Test Channel = HCH





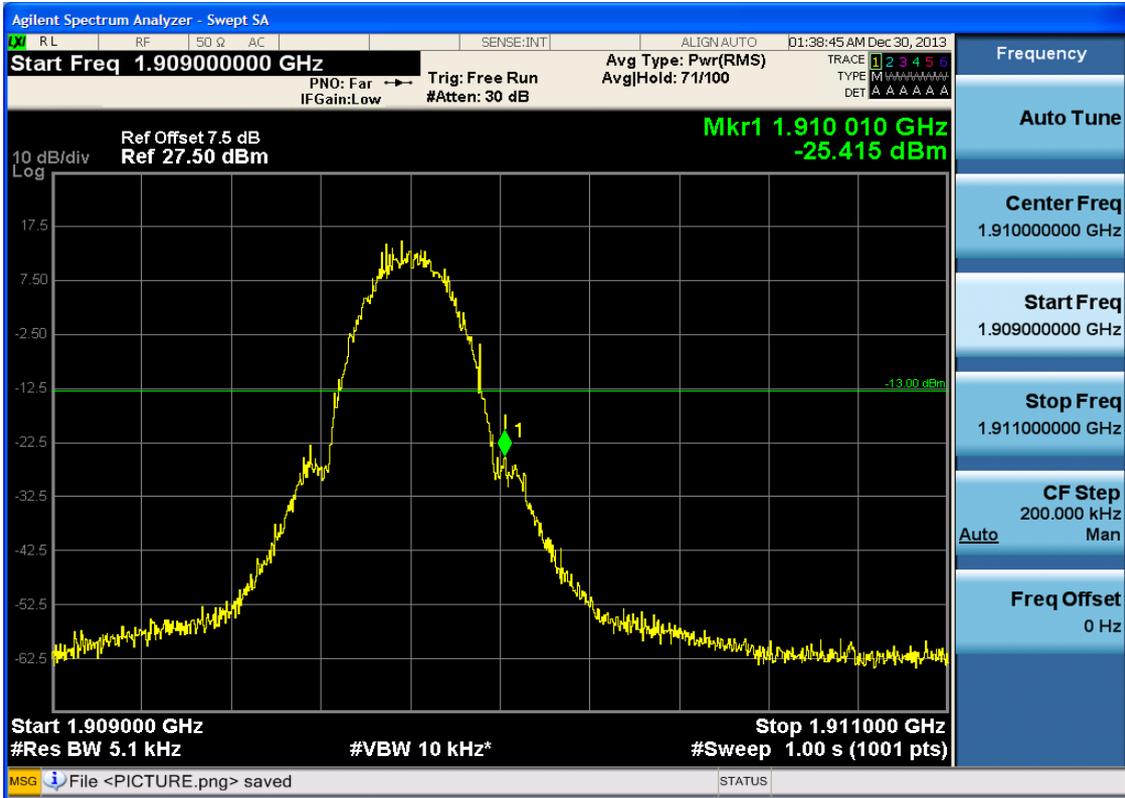
5.1.2.2 Test Mode = GSM/TM2

5.1.2.2.1 Test Channel = LCH





5.1.2.2.2 Test Channel = HCH





5.2 For UMTS

5.2.1 Test Band = WCDMA850

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH





5.2.1.1.2 Test Channel = HCH





5.2.2 Test Band = WCDMA1900

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH





5.2.2.1.2 Test Channel = HCH



6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

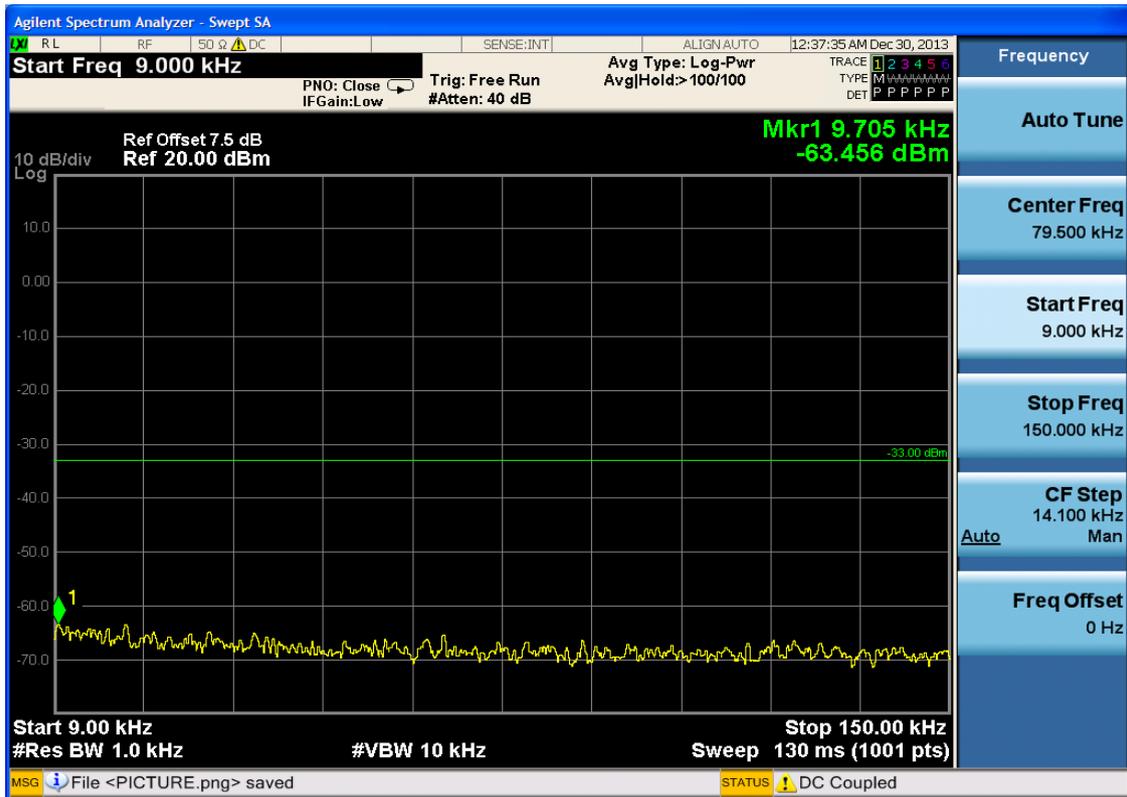
Part I - Test Plots

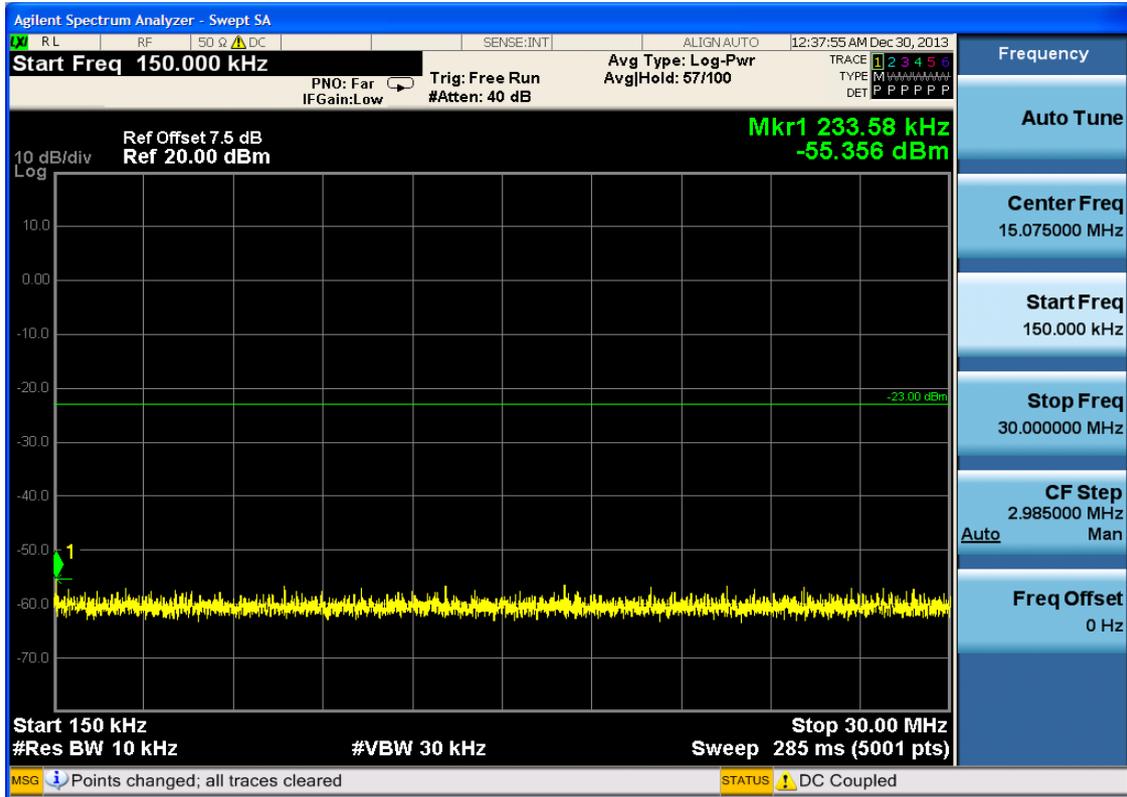
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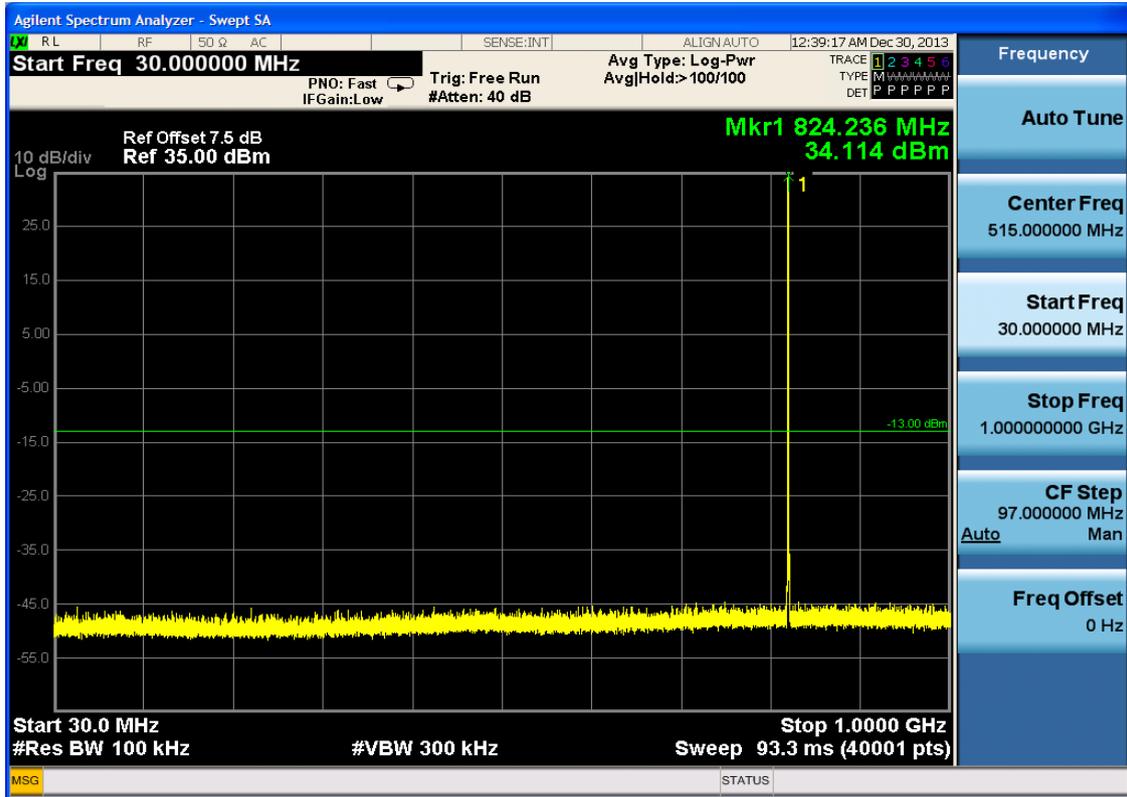
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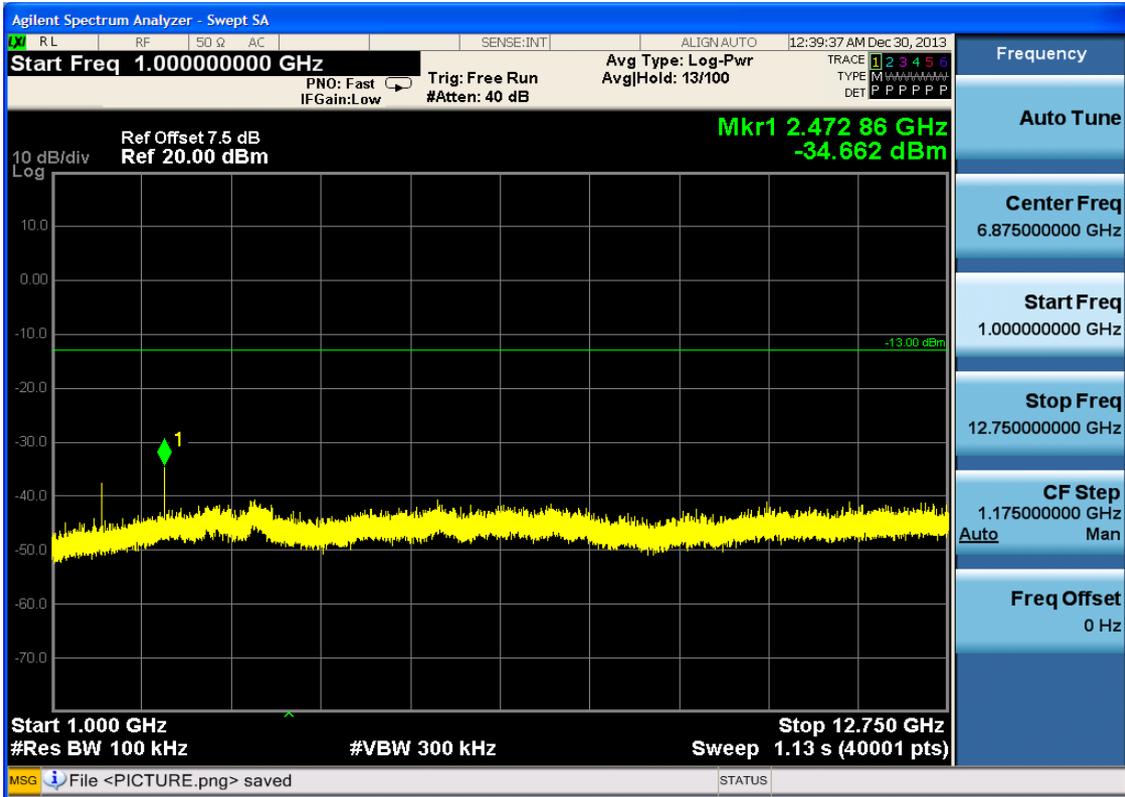
6.1.1.1 Test Mode = GSM/TM1

6.1.1.1.1 Test Channel = LCH



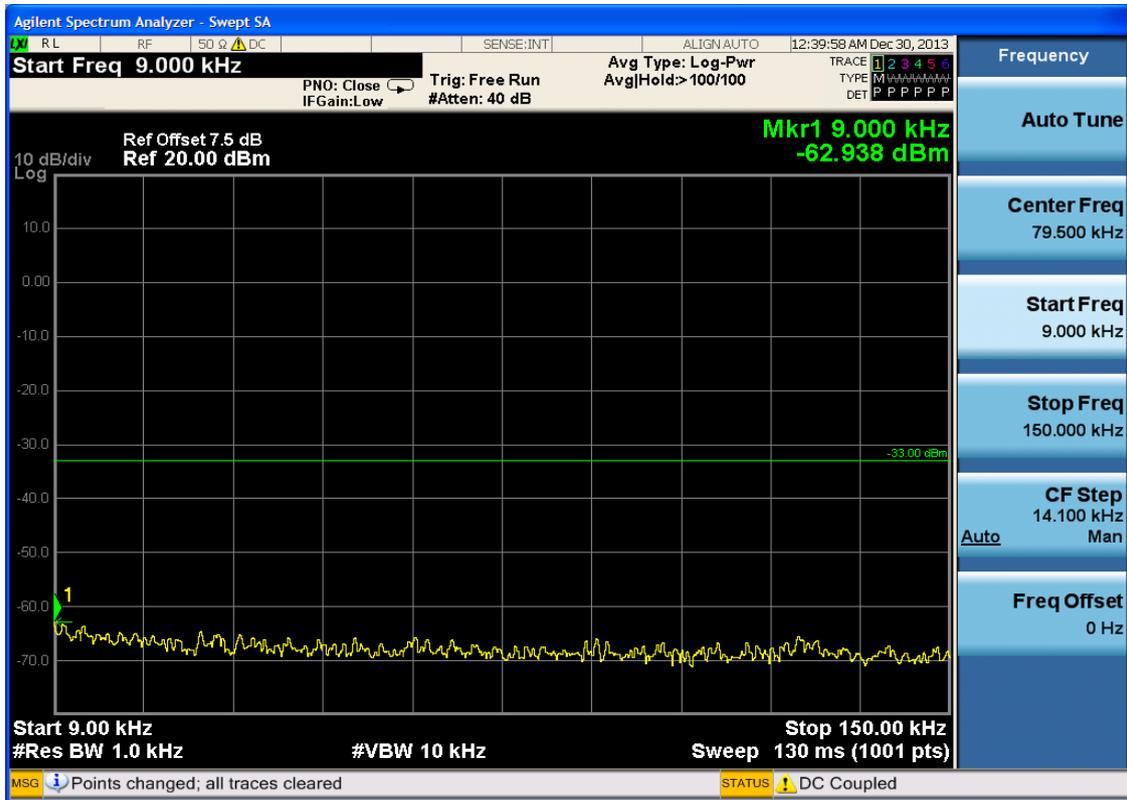


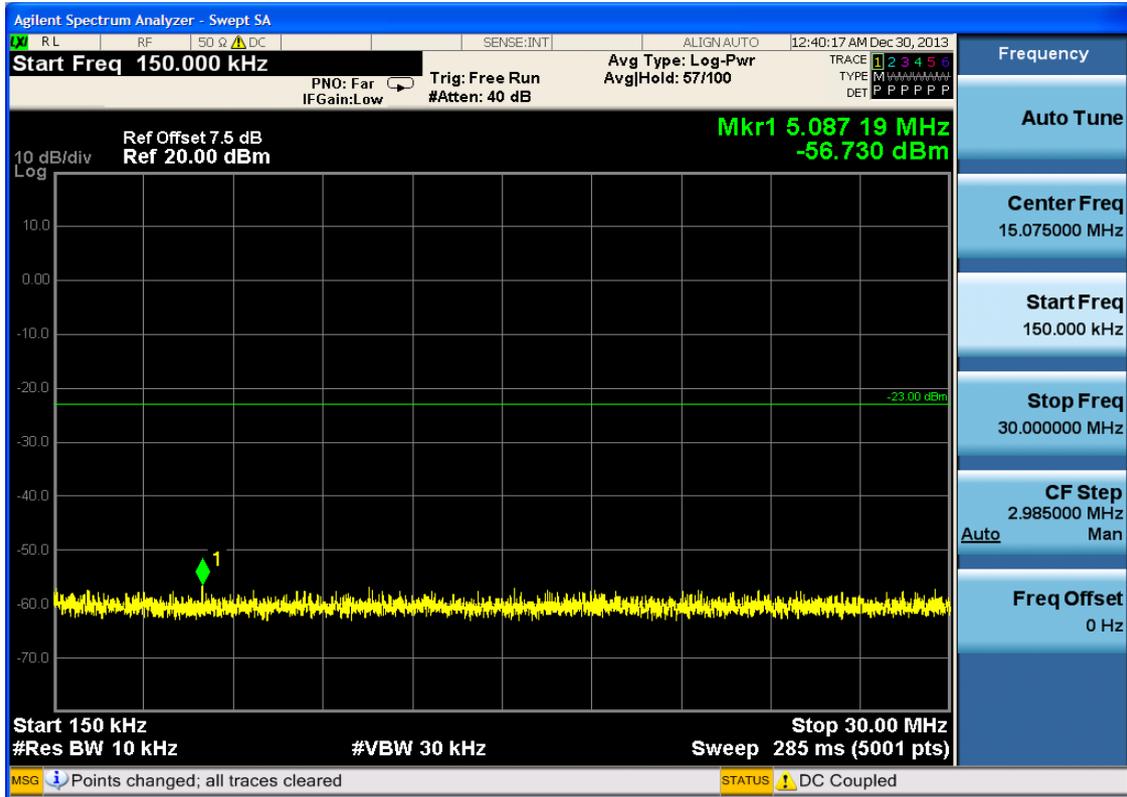


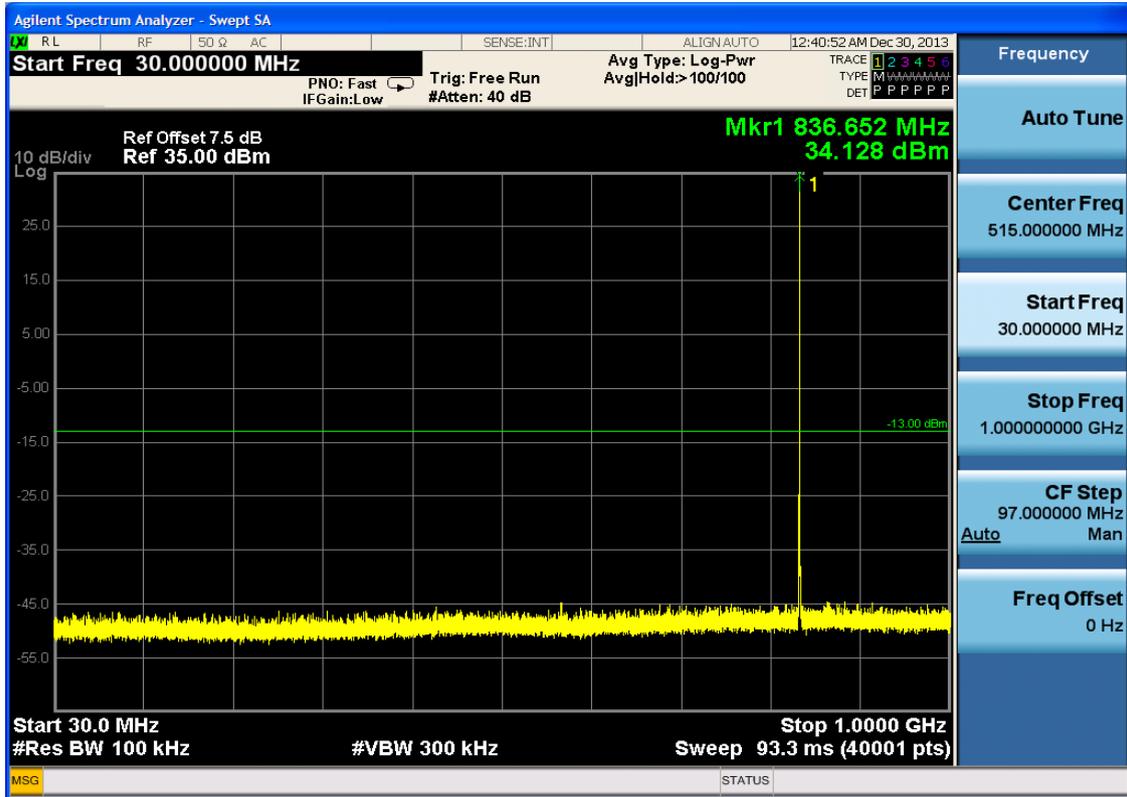


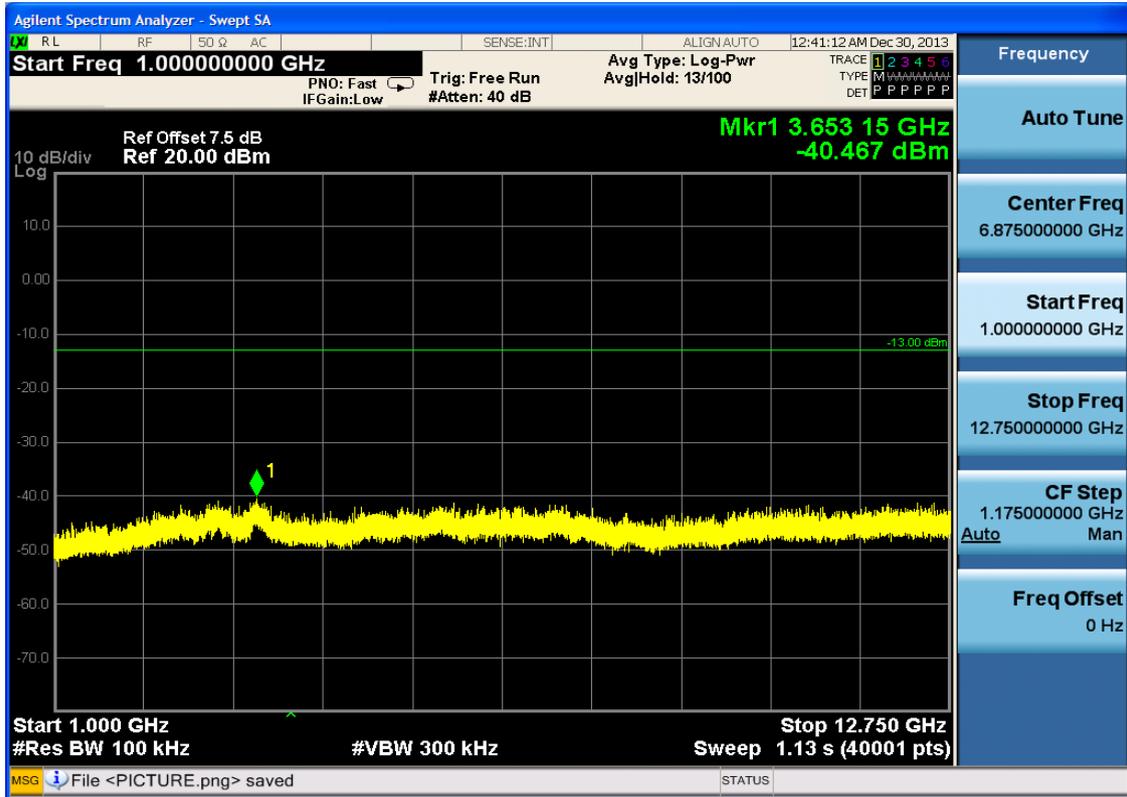


6.1.1.1.2 Test Channel = MCH



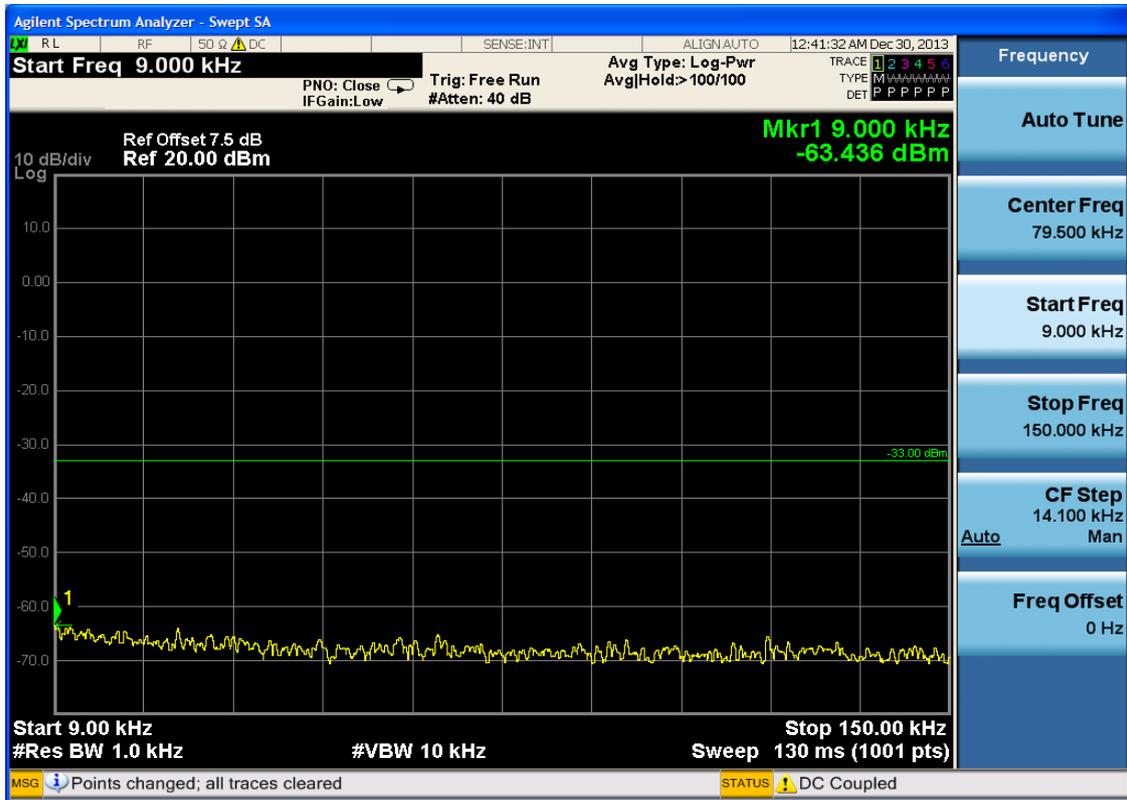


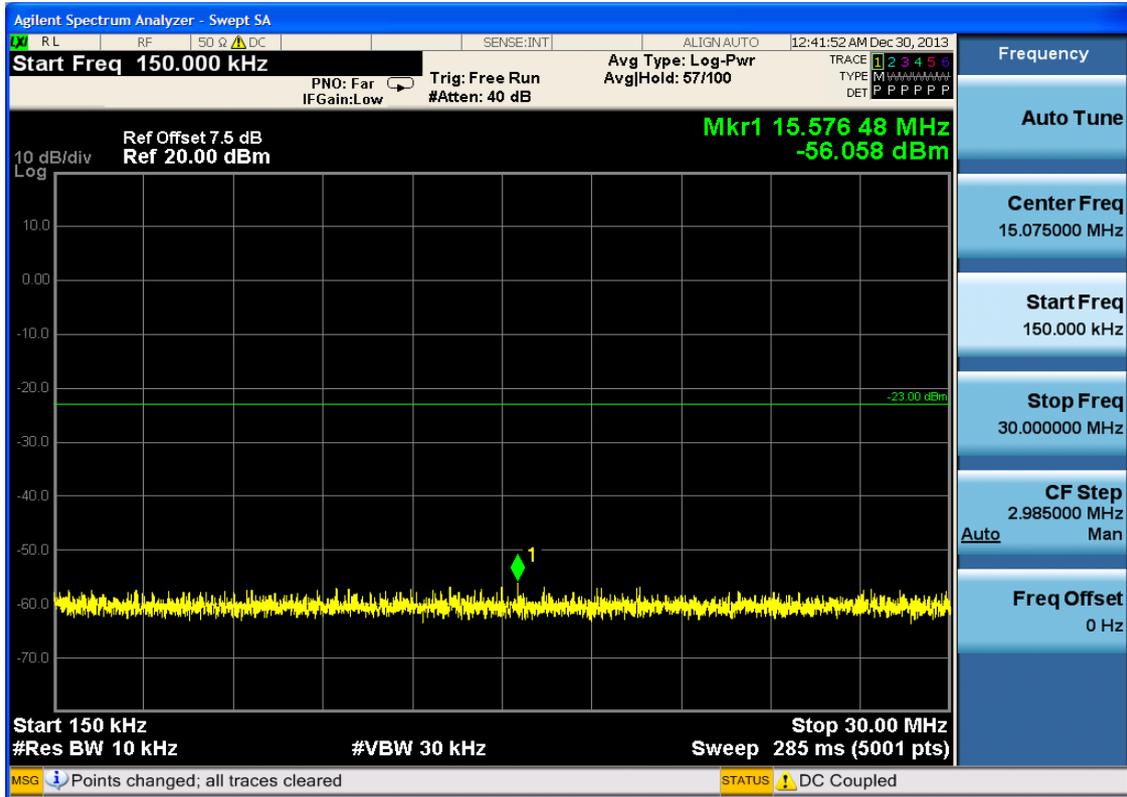


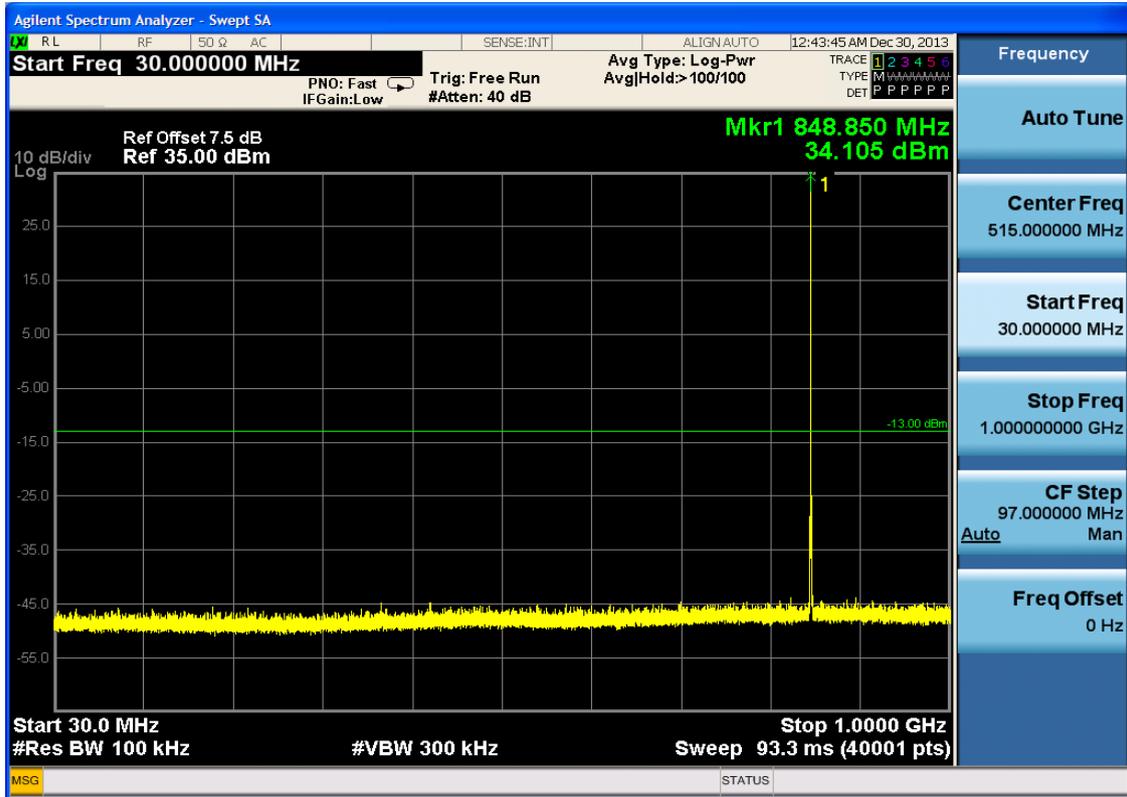


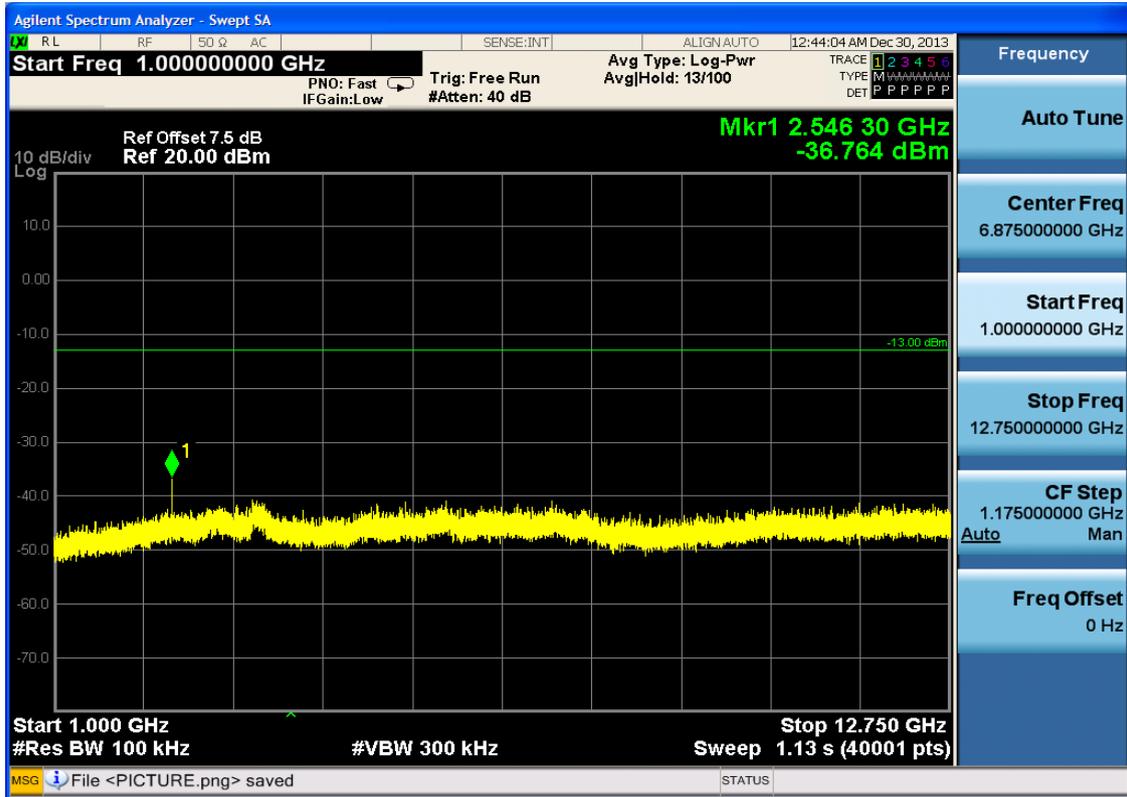


6.1.1.1.3 Test Channel = HCH





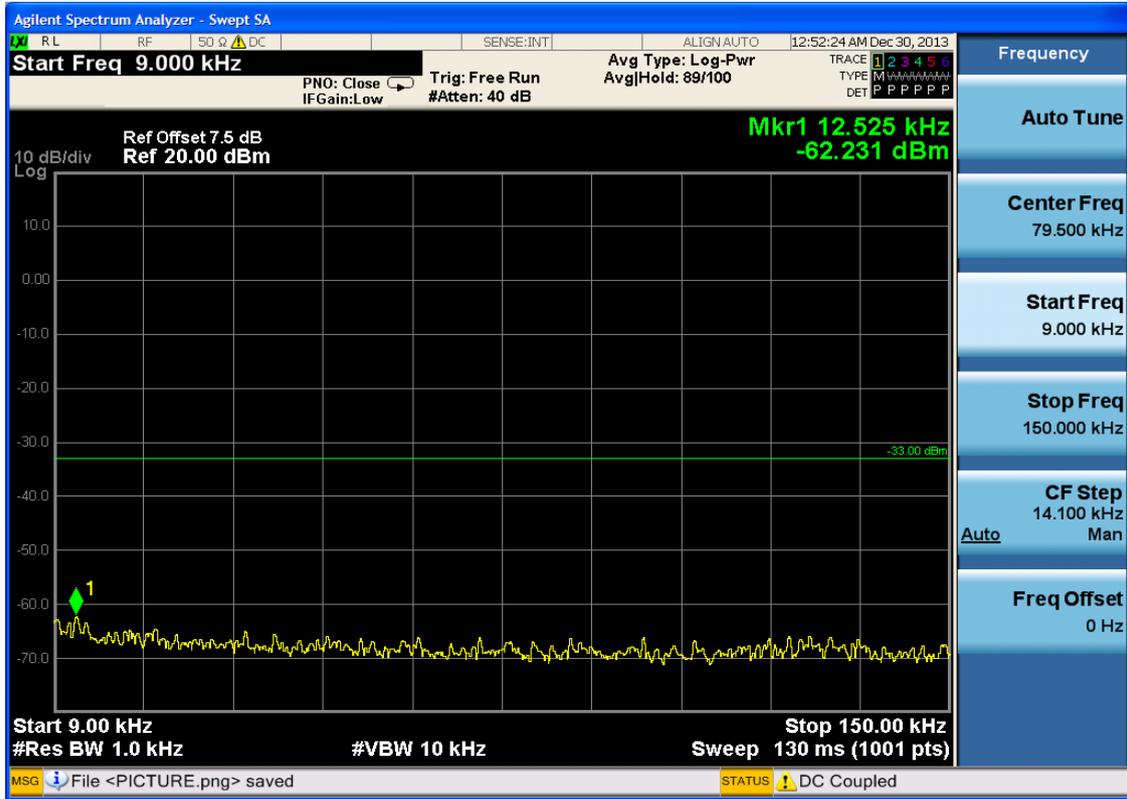


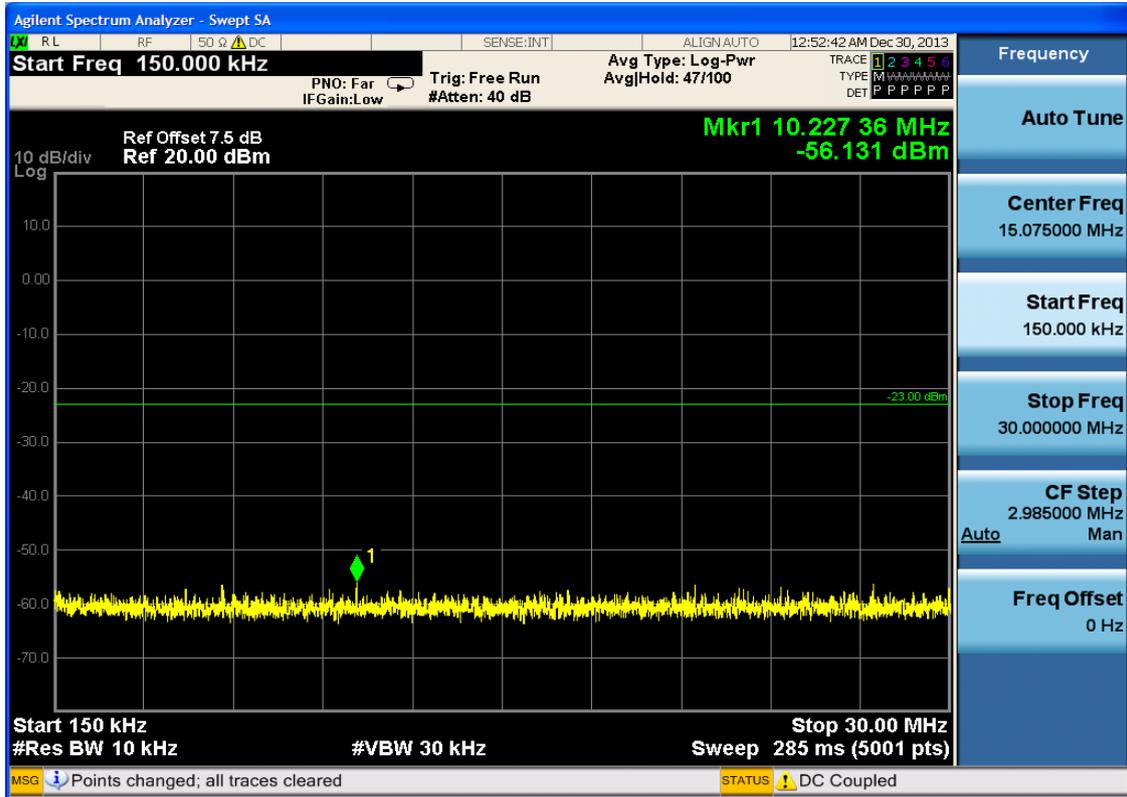


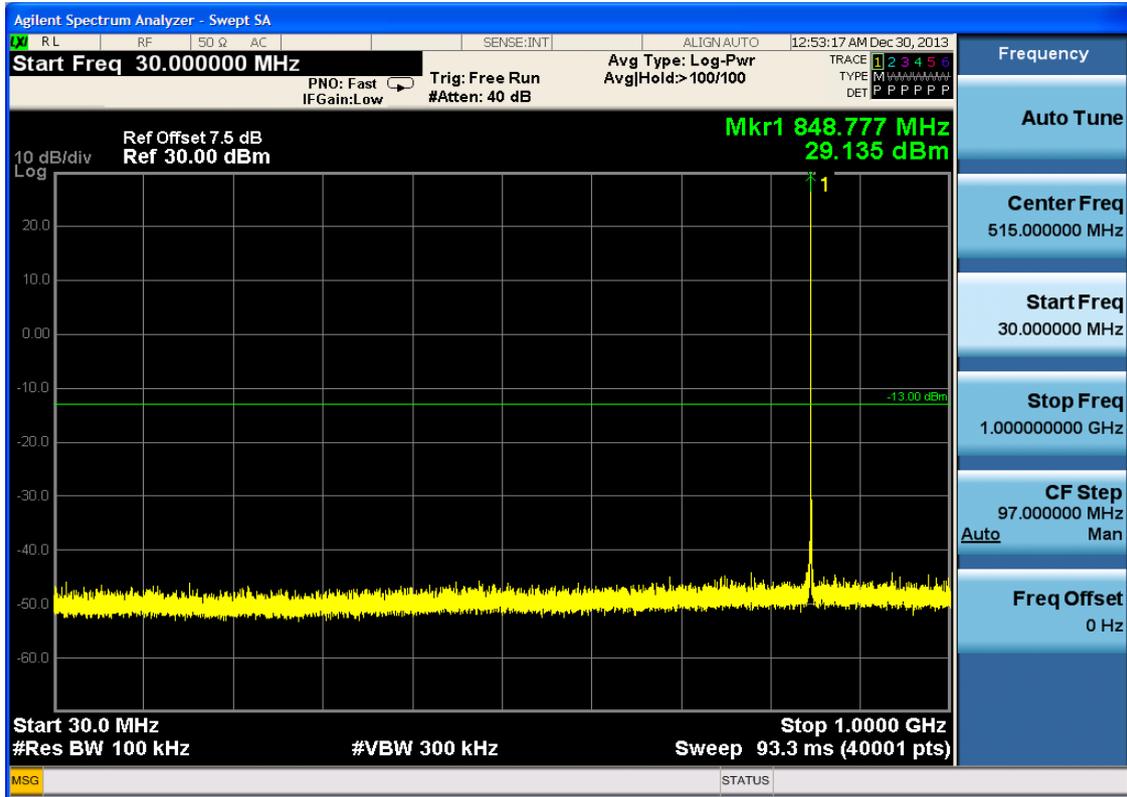


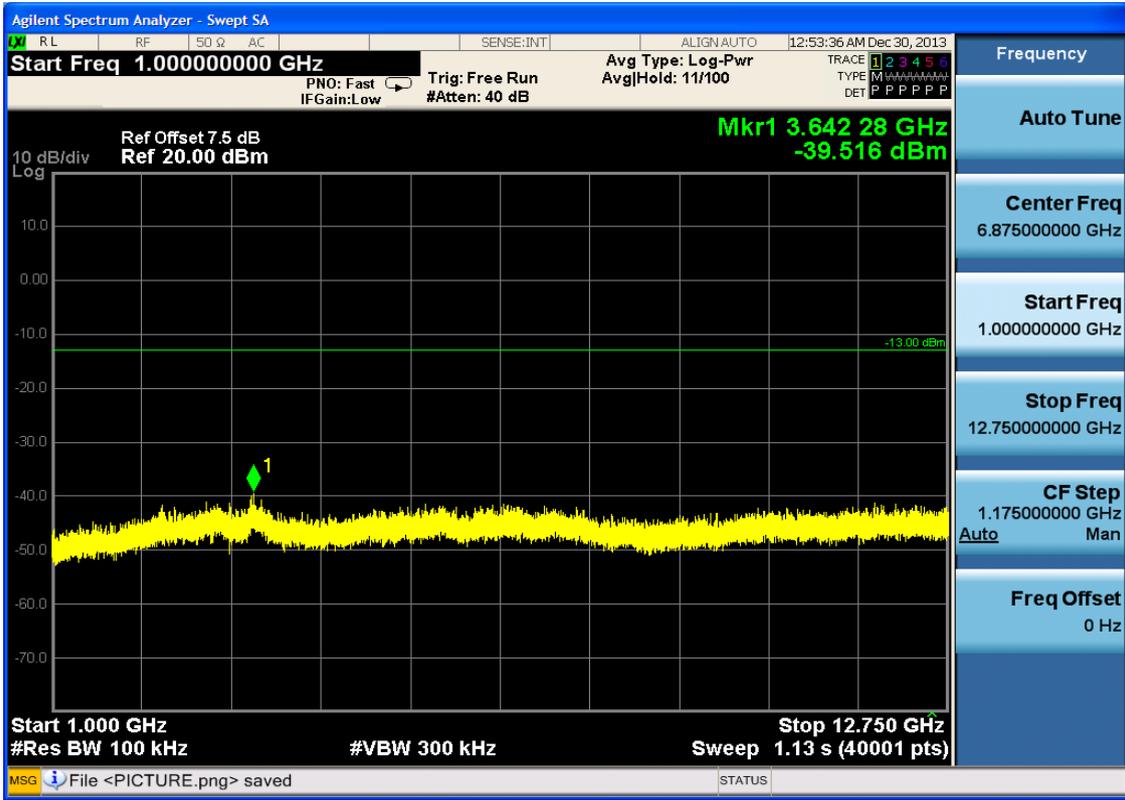
6.1.1.2 Test Mode = GSM/TM2

6.1.1.2.1 Test Channel = LCH



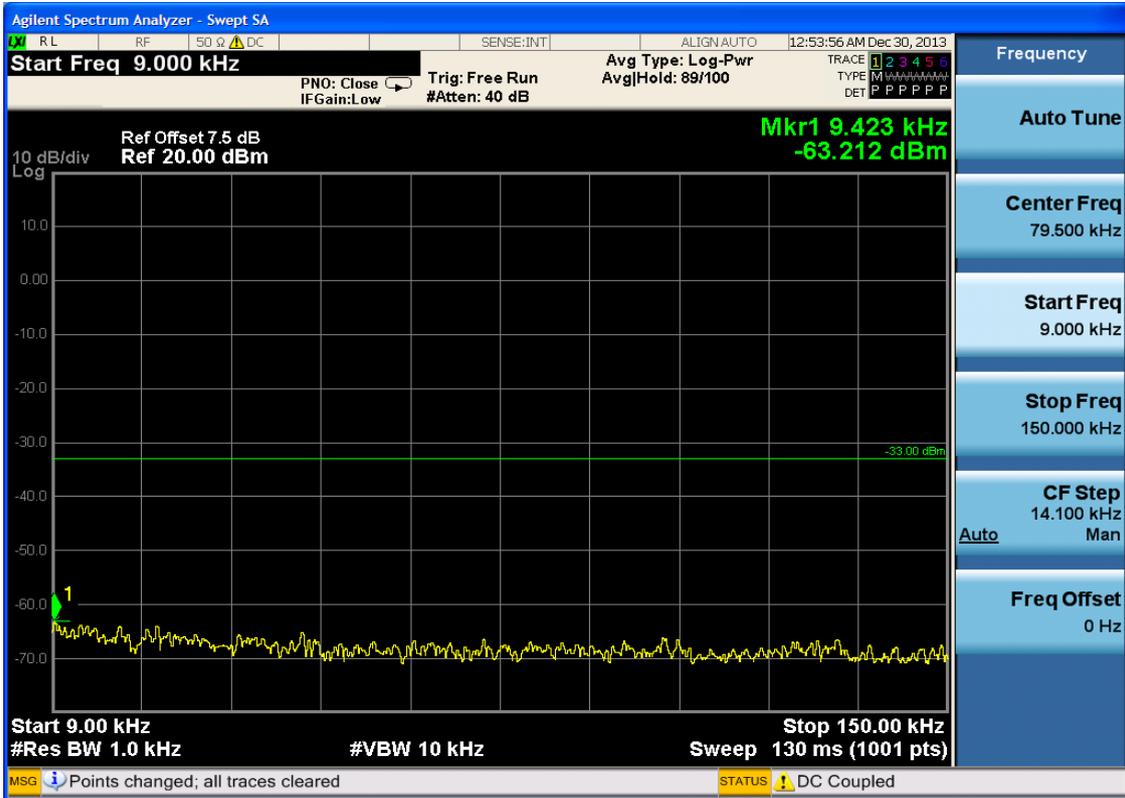


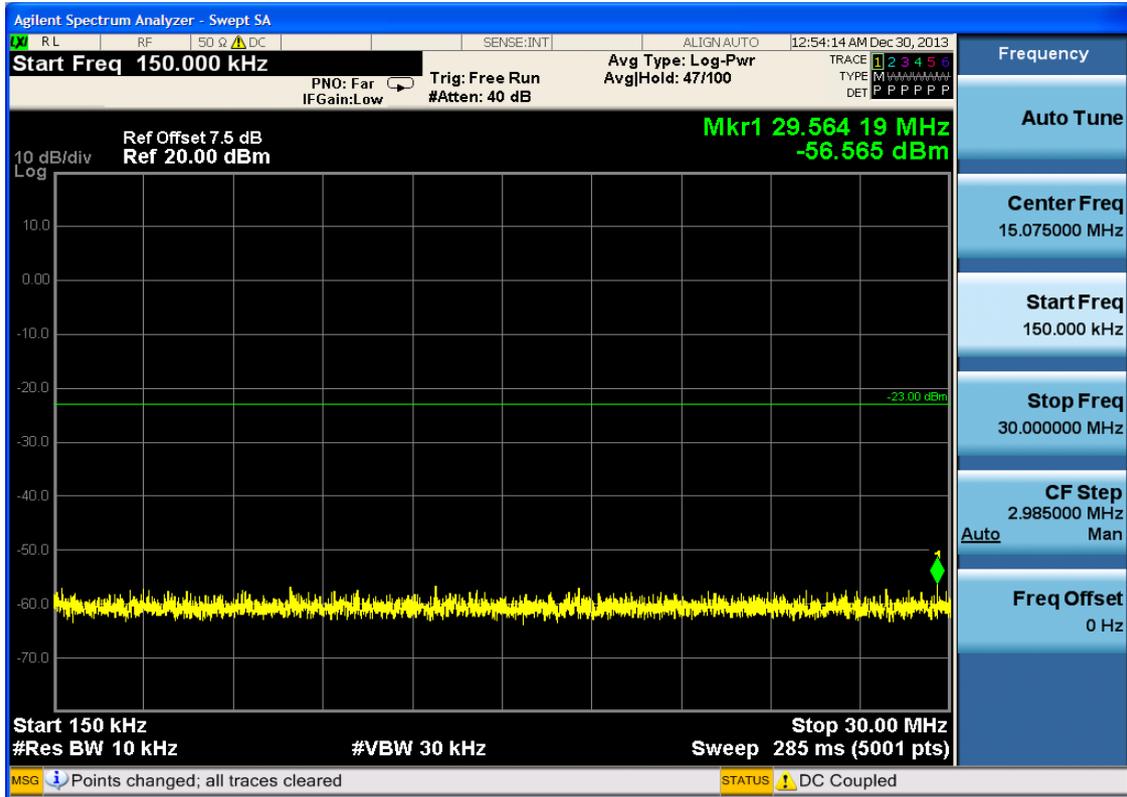


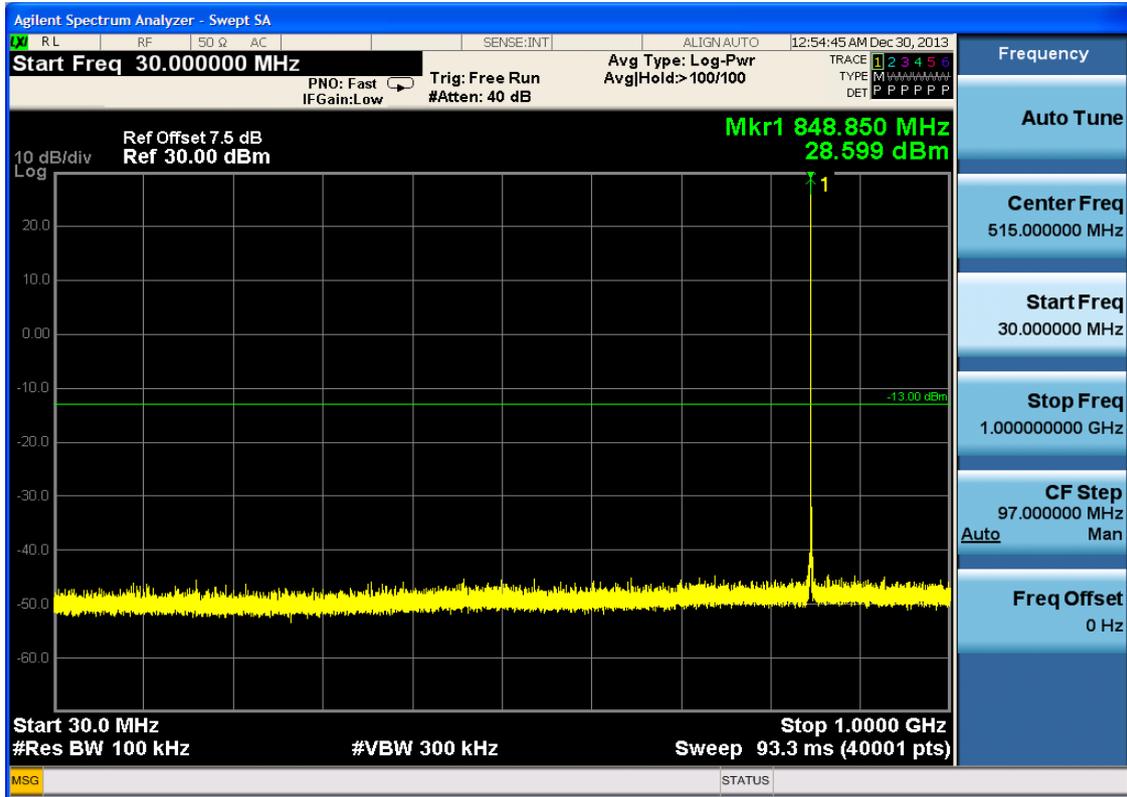


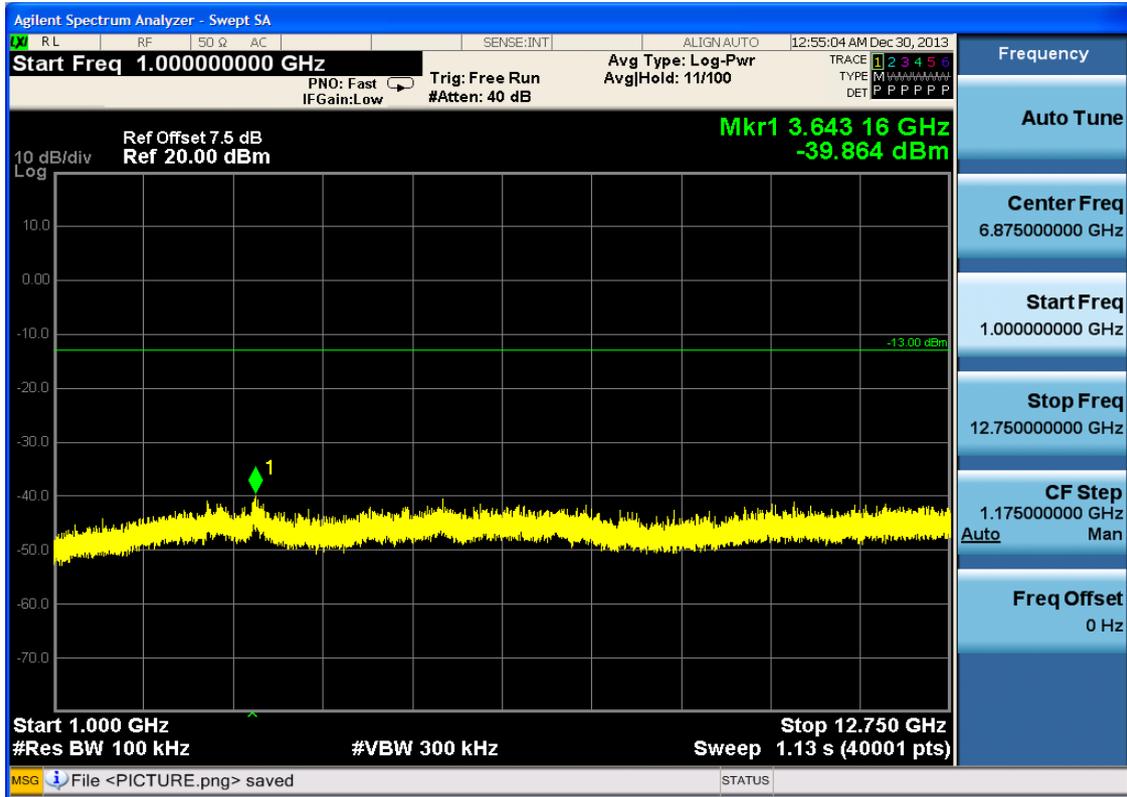


6.1.1.2.2 Test Channel = MCH



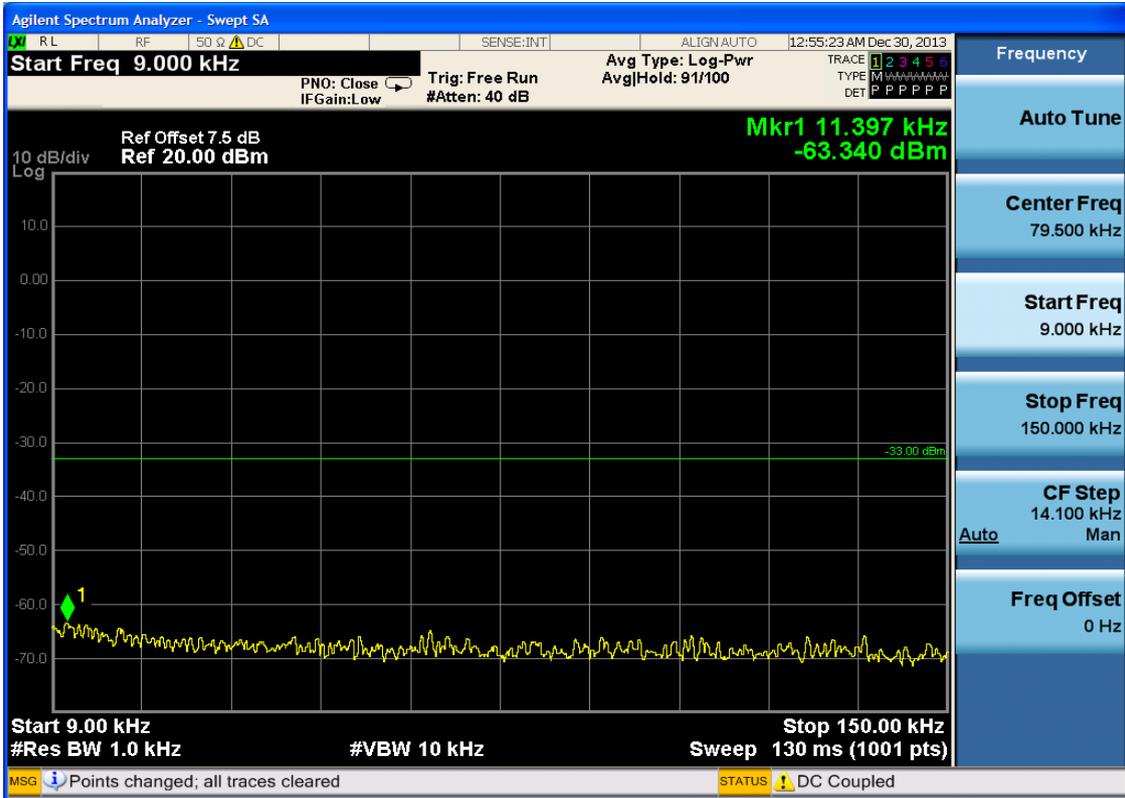


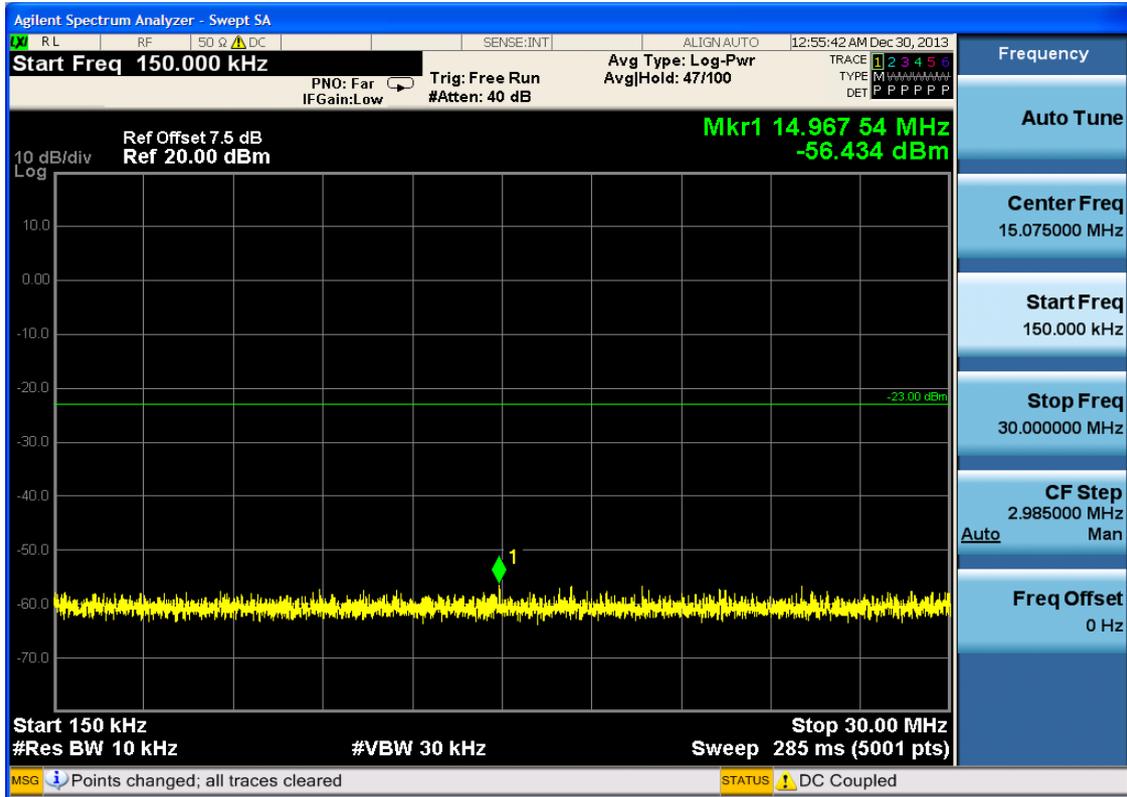


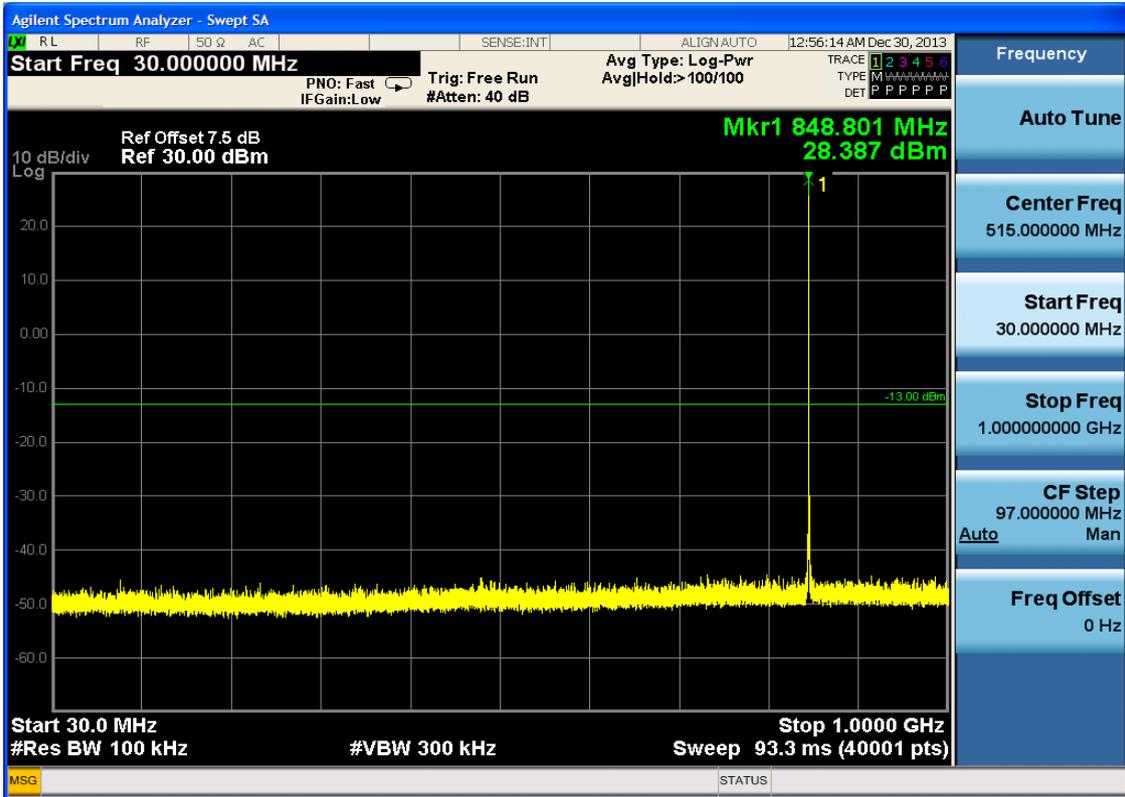


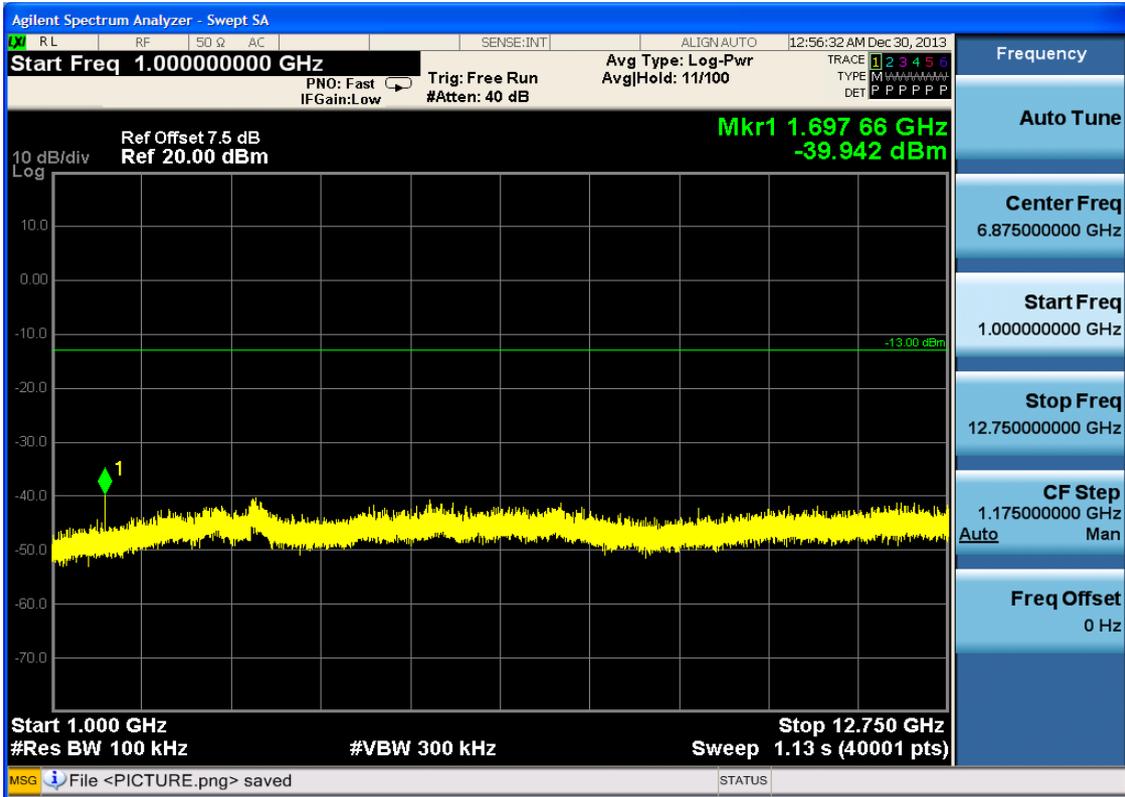


6.1.1.2.3 Test Channel = HCH







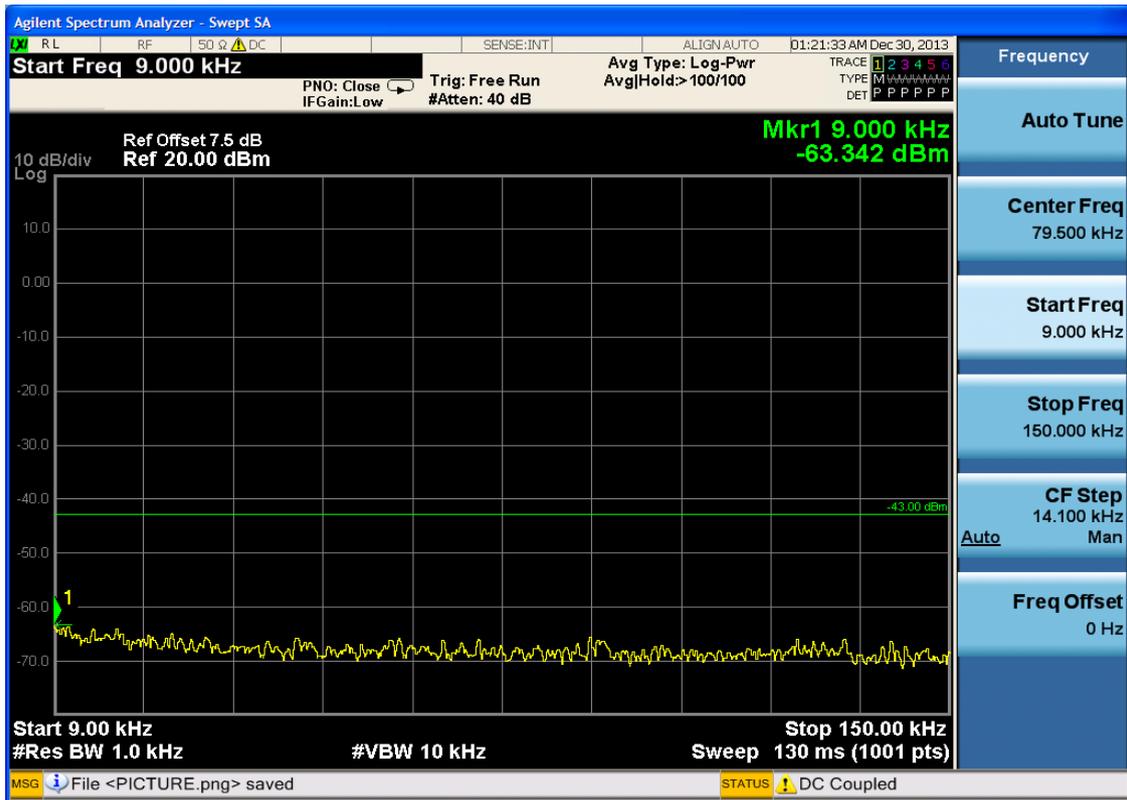


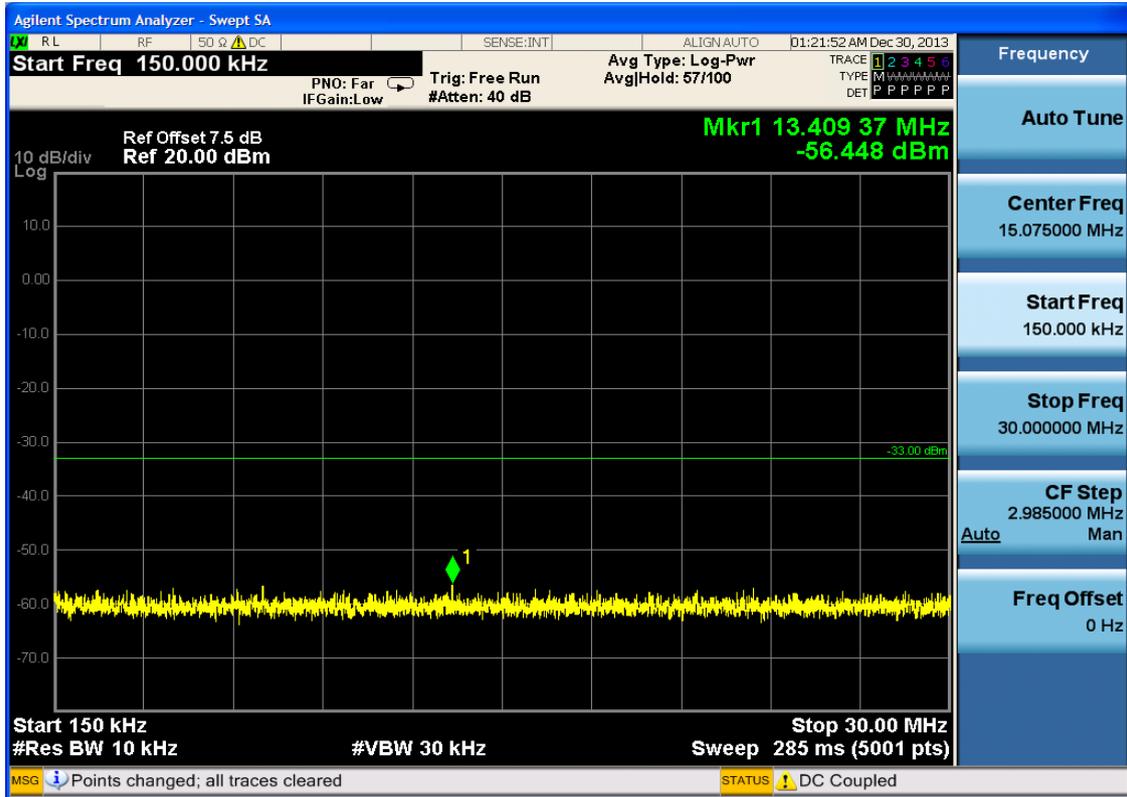


6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

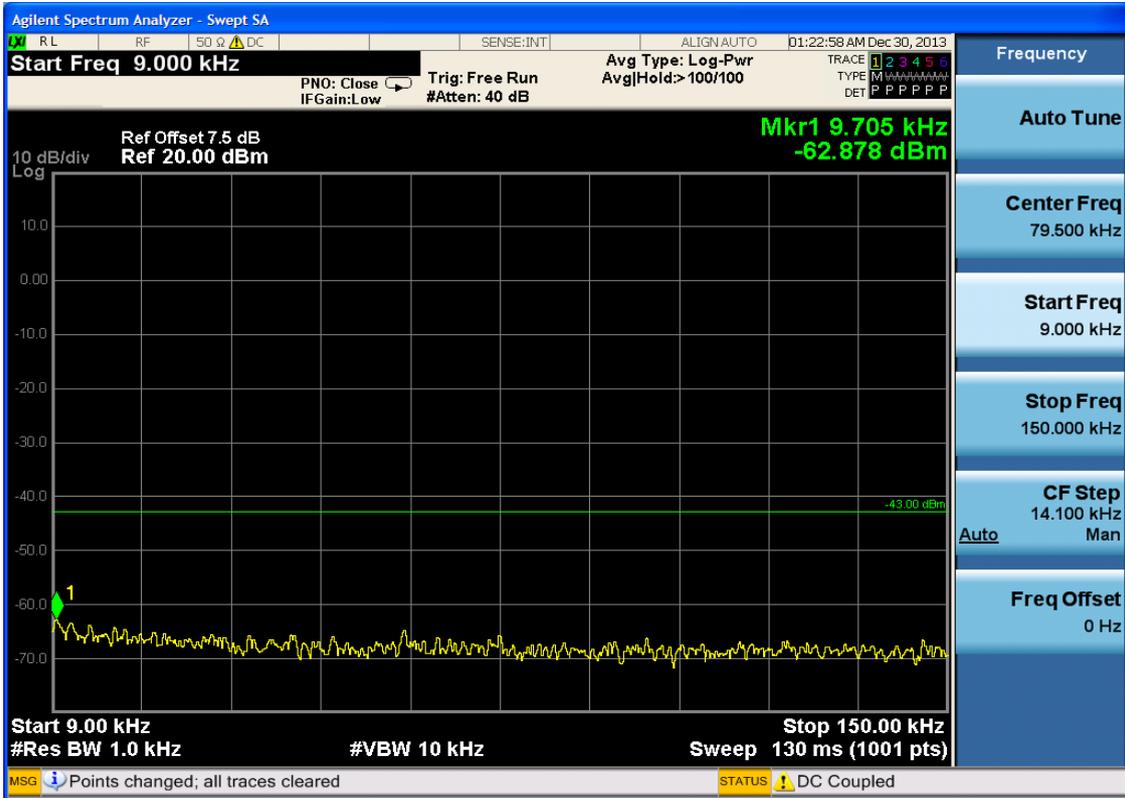


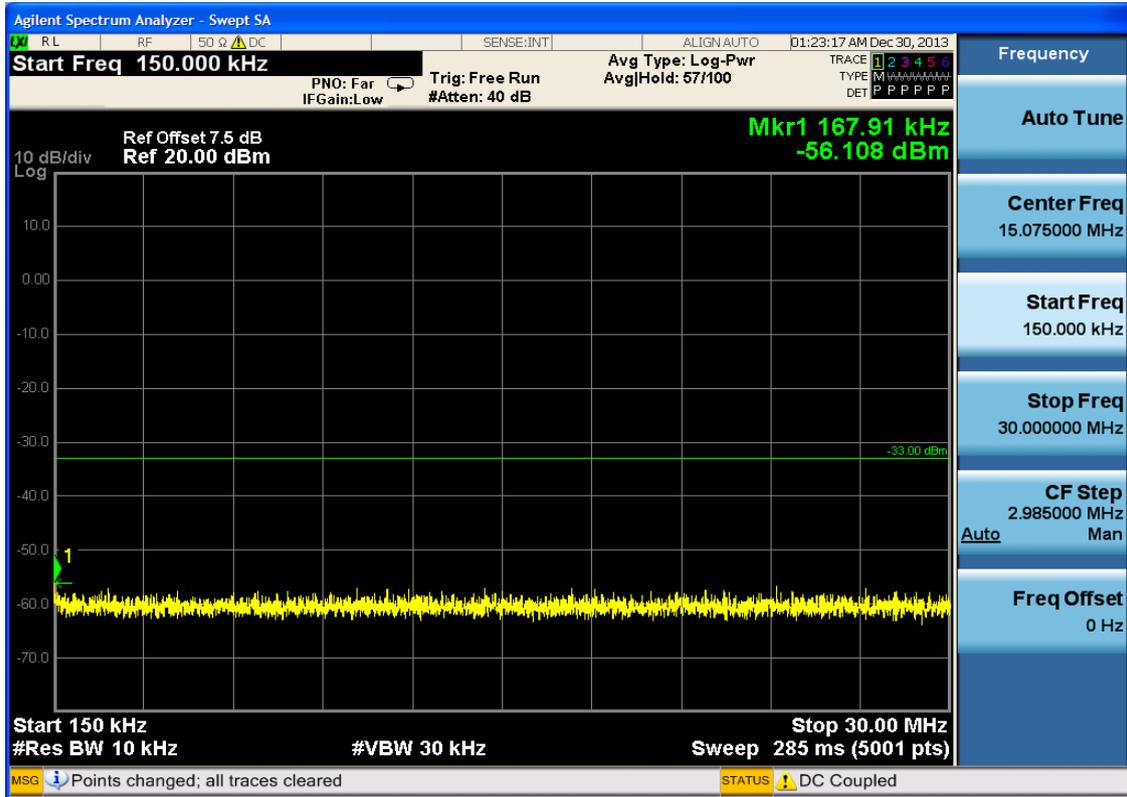


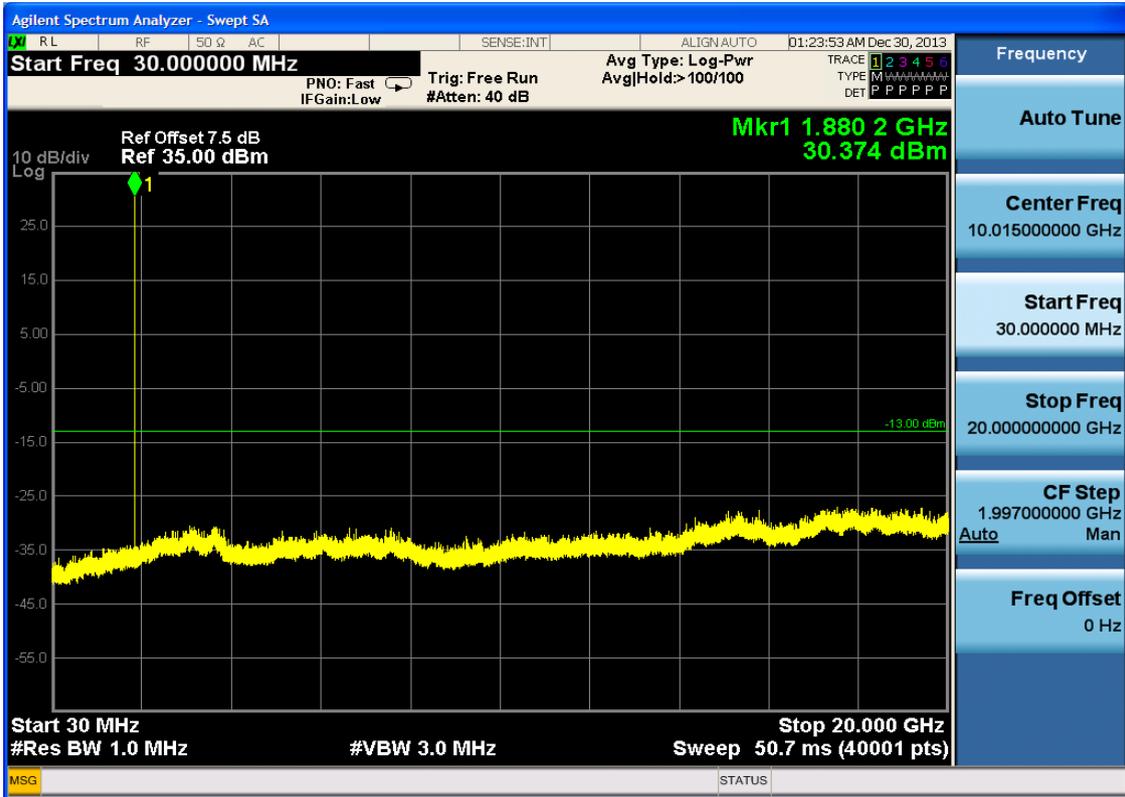




6.1.2.1.2 Test Channel = MCH

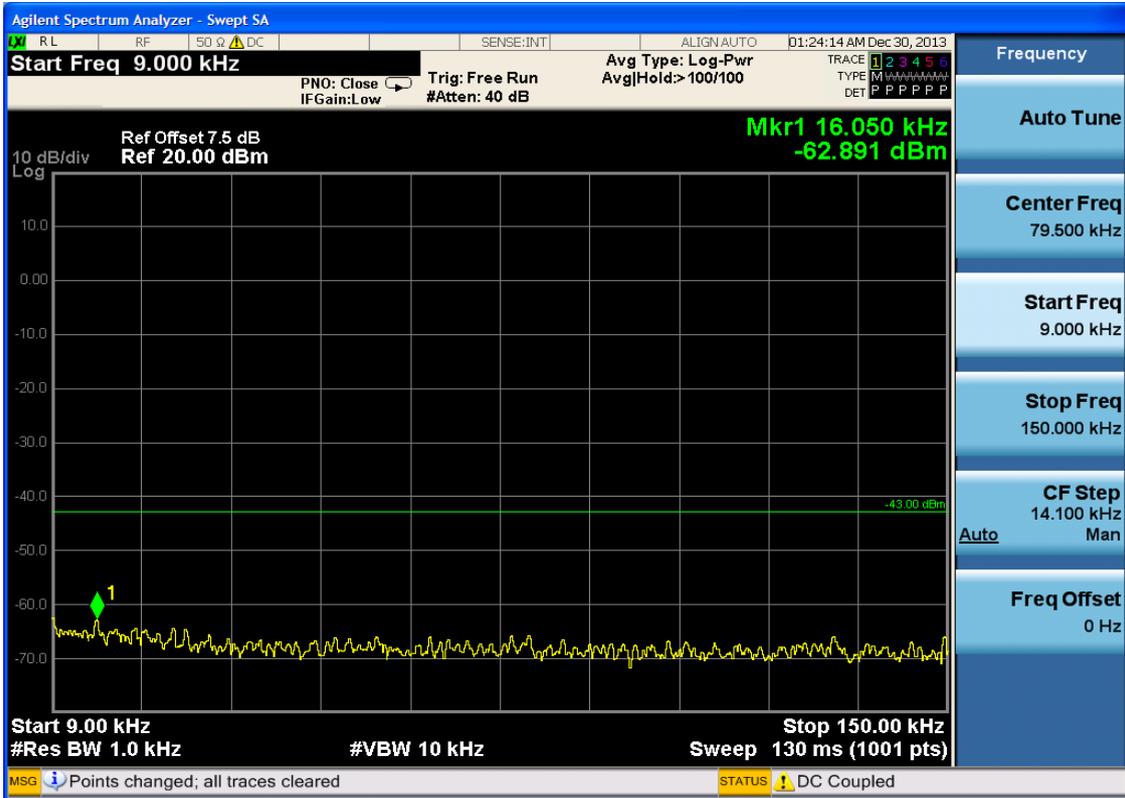


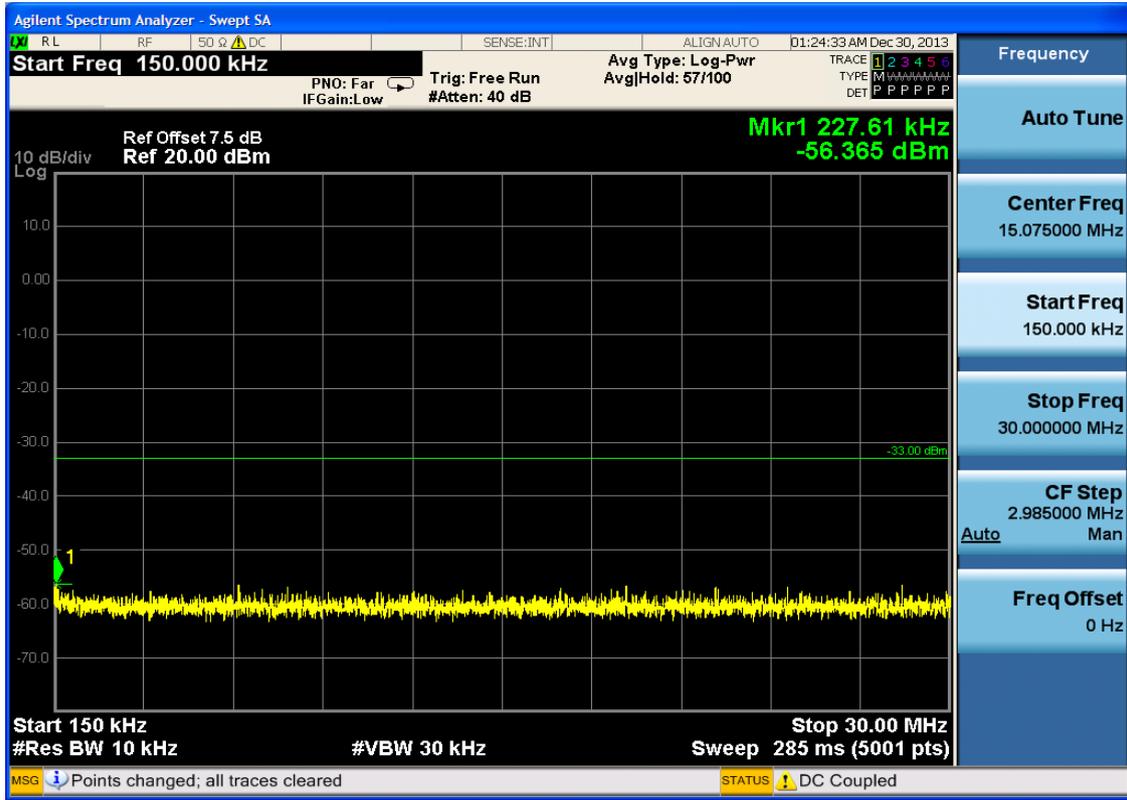






6.1.2.1.3 Test Channel = HCH



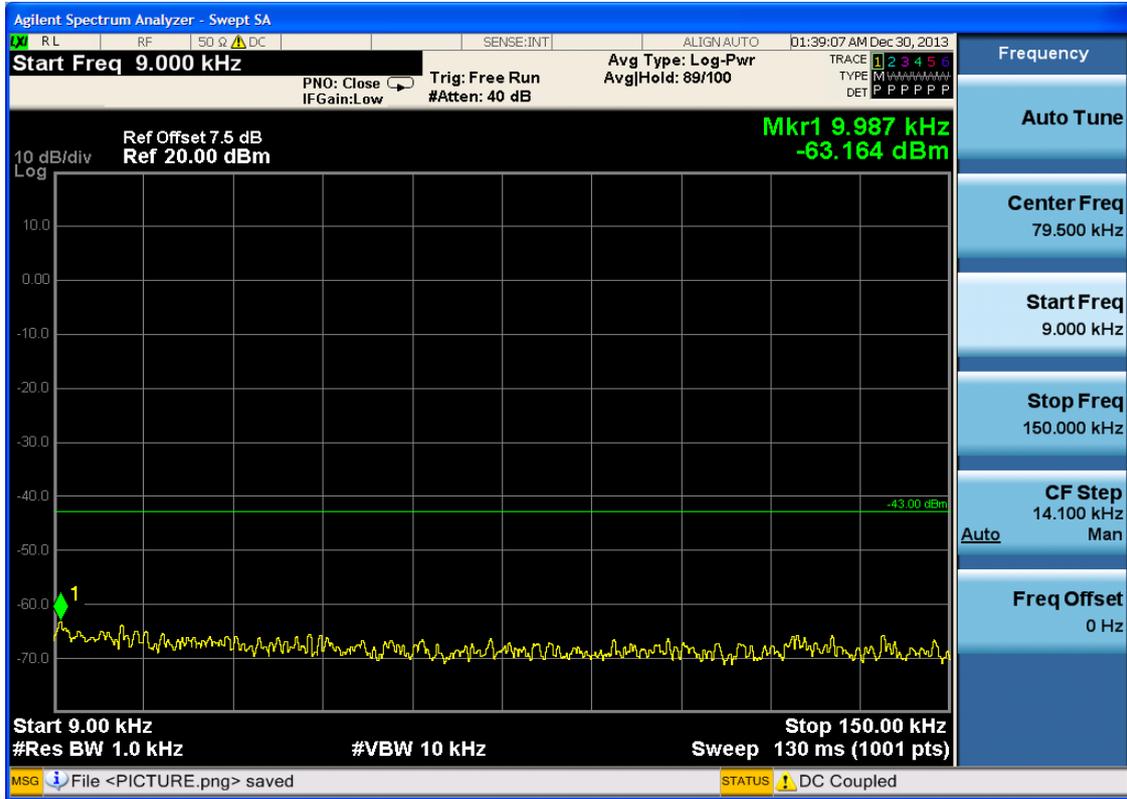


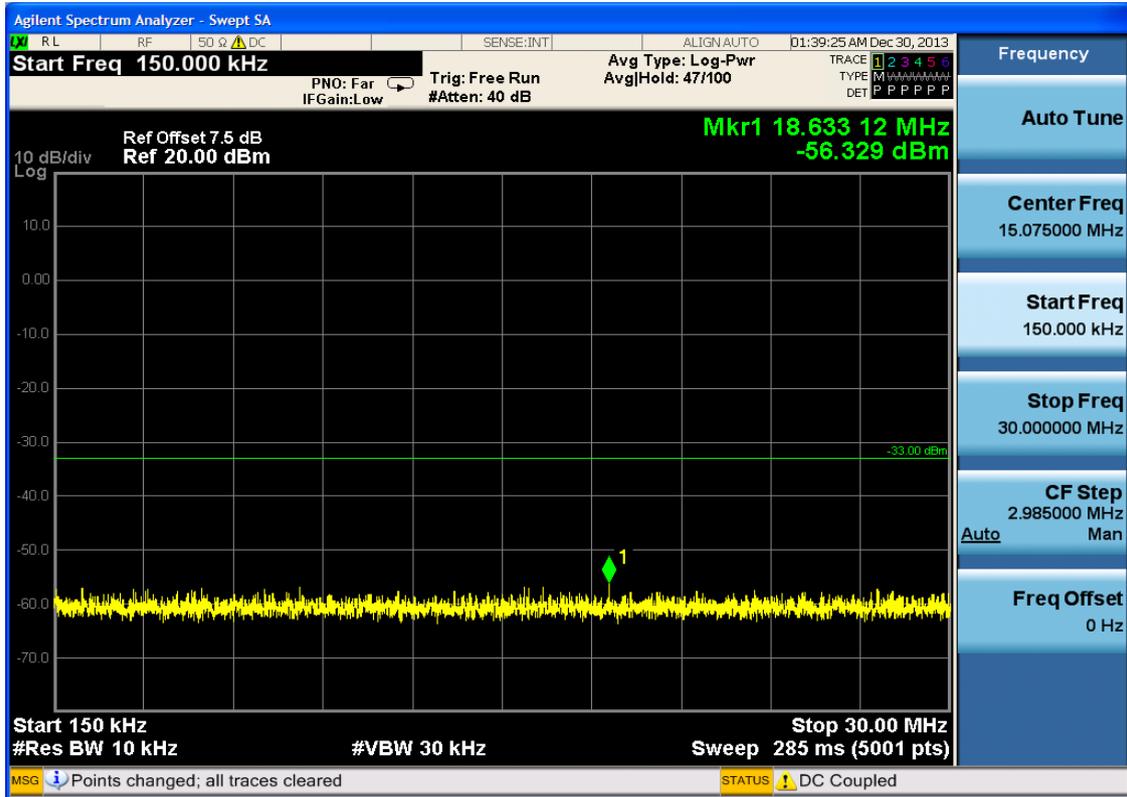




6.1.2.2 Test Mode = GSM/TM2

6.1.2.2.1 Test Channel = LCH

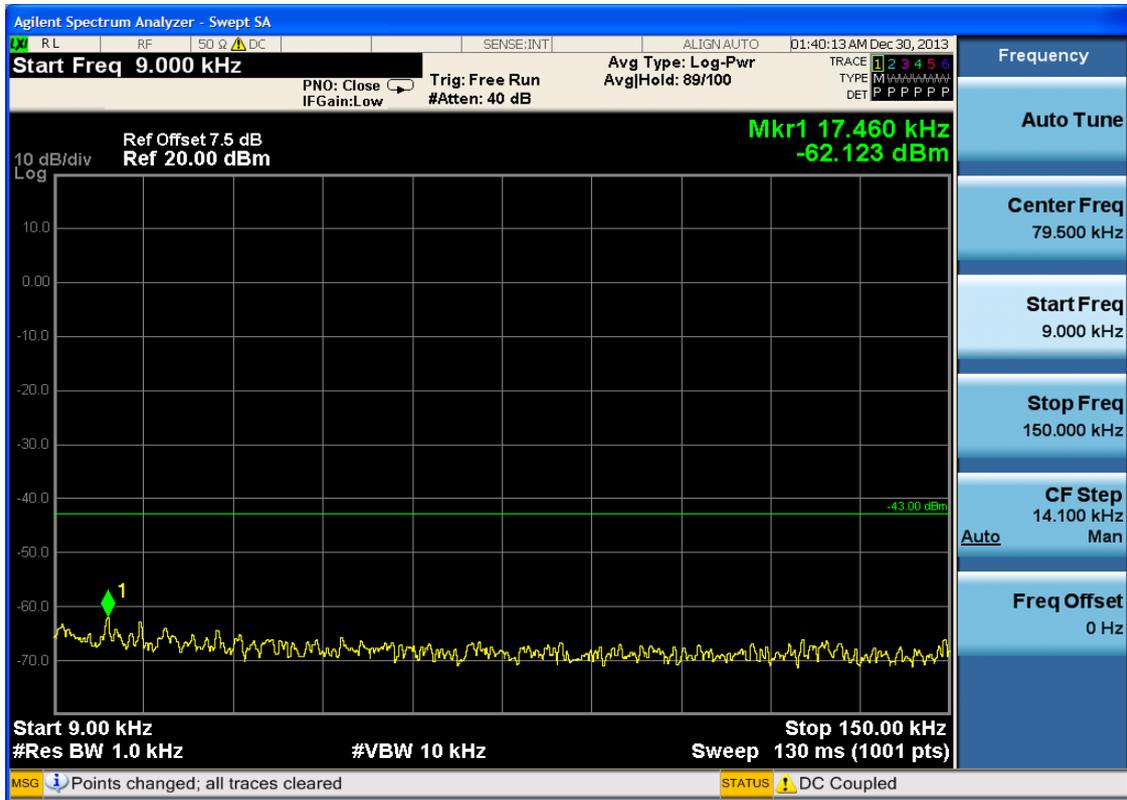


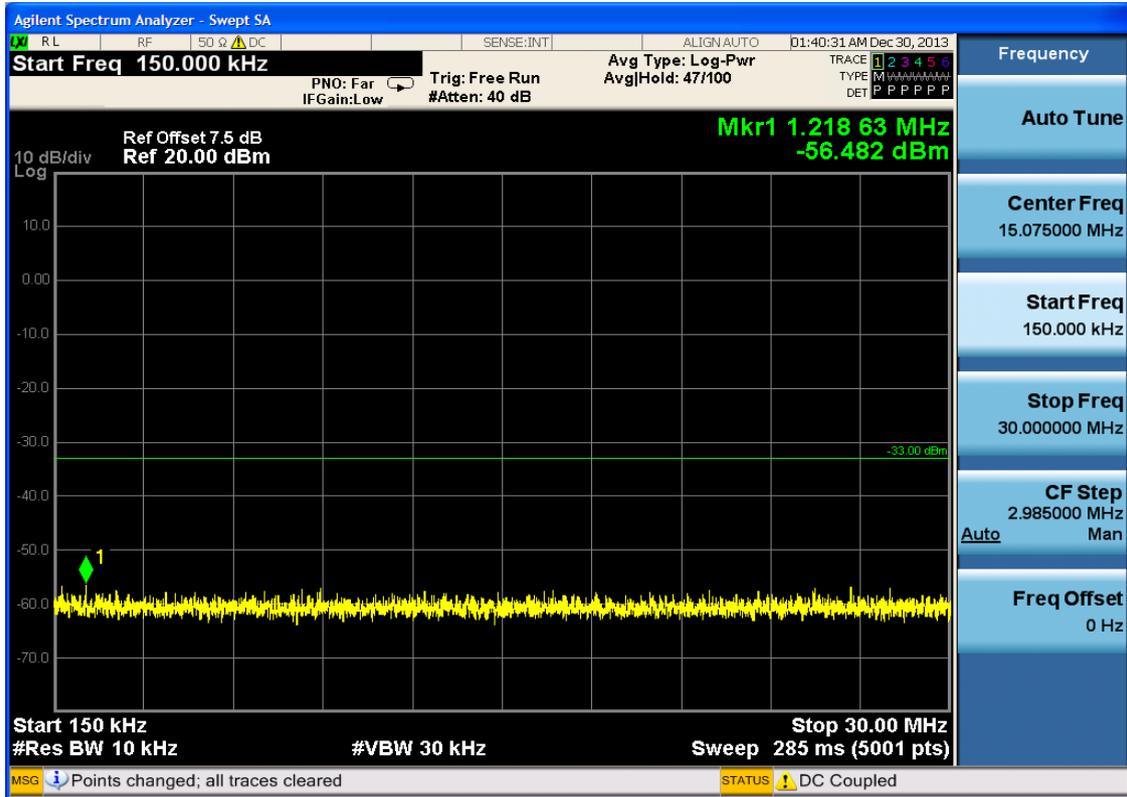


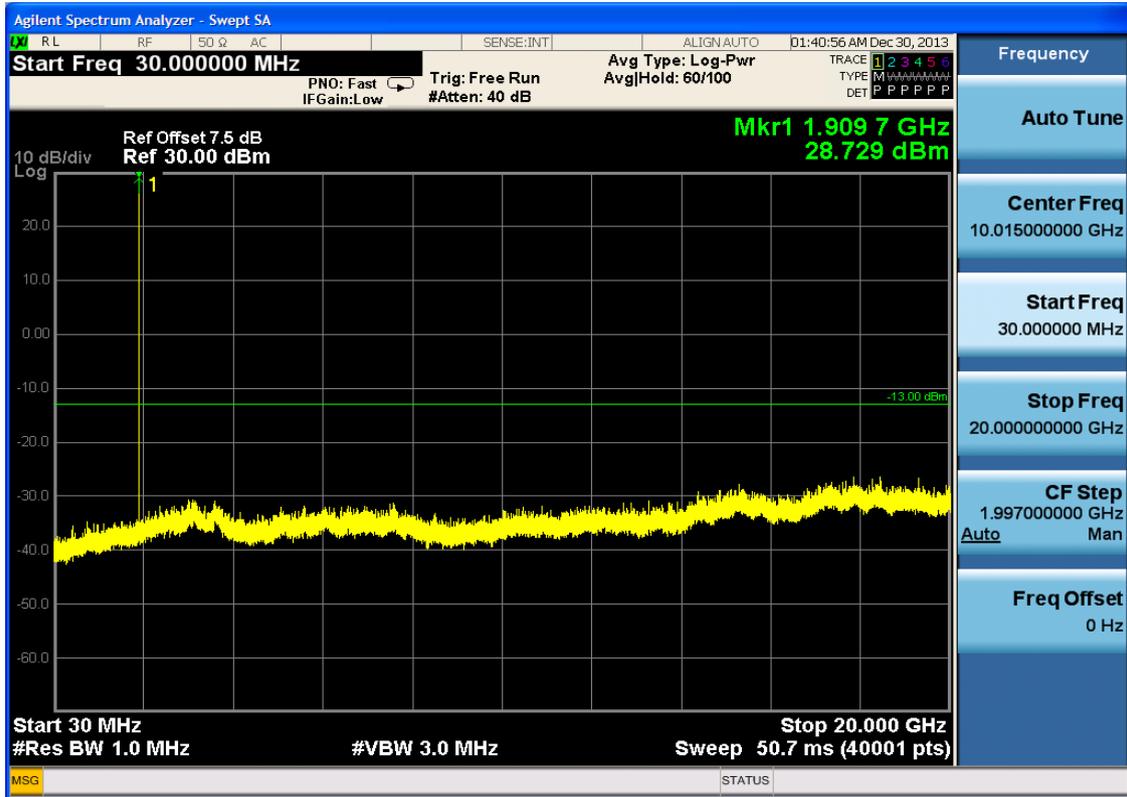


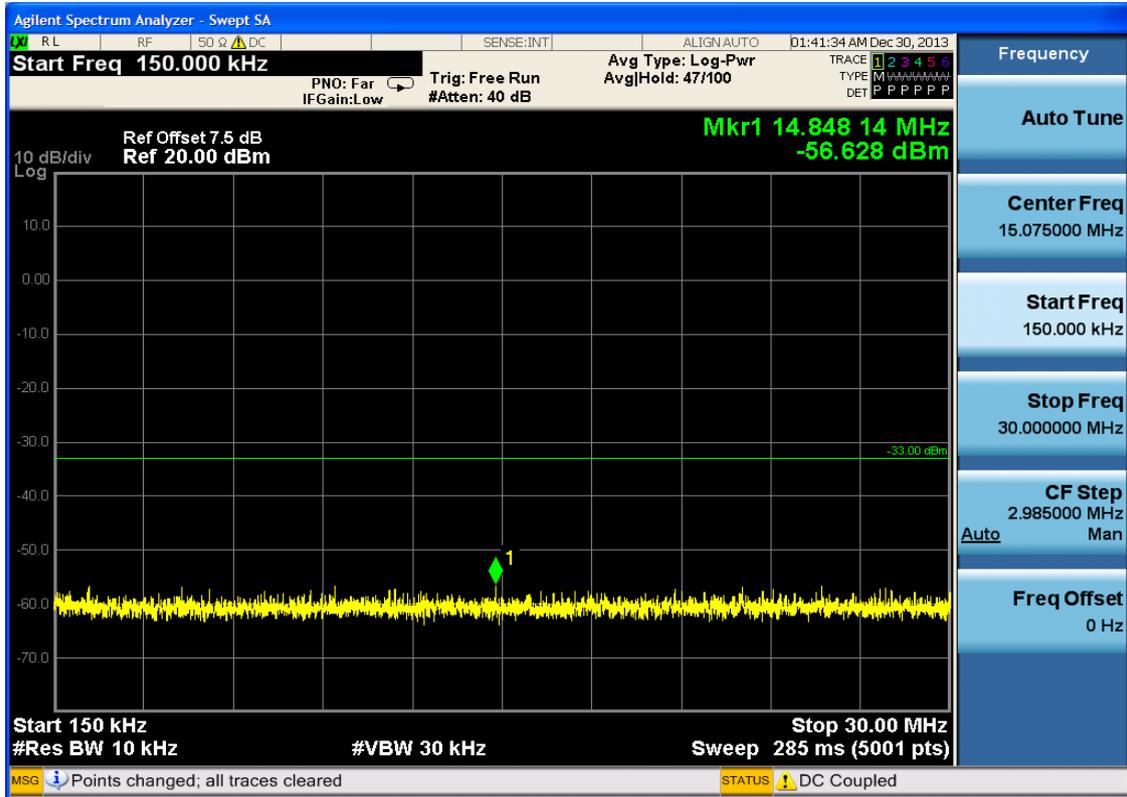


6.1.2.2.2 Test Channel = MCH









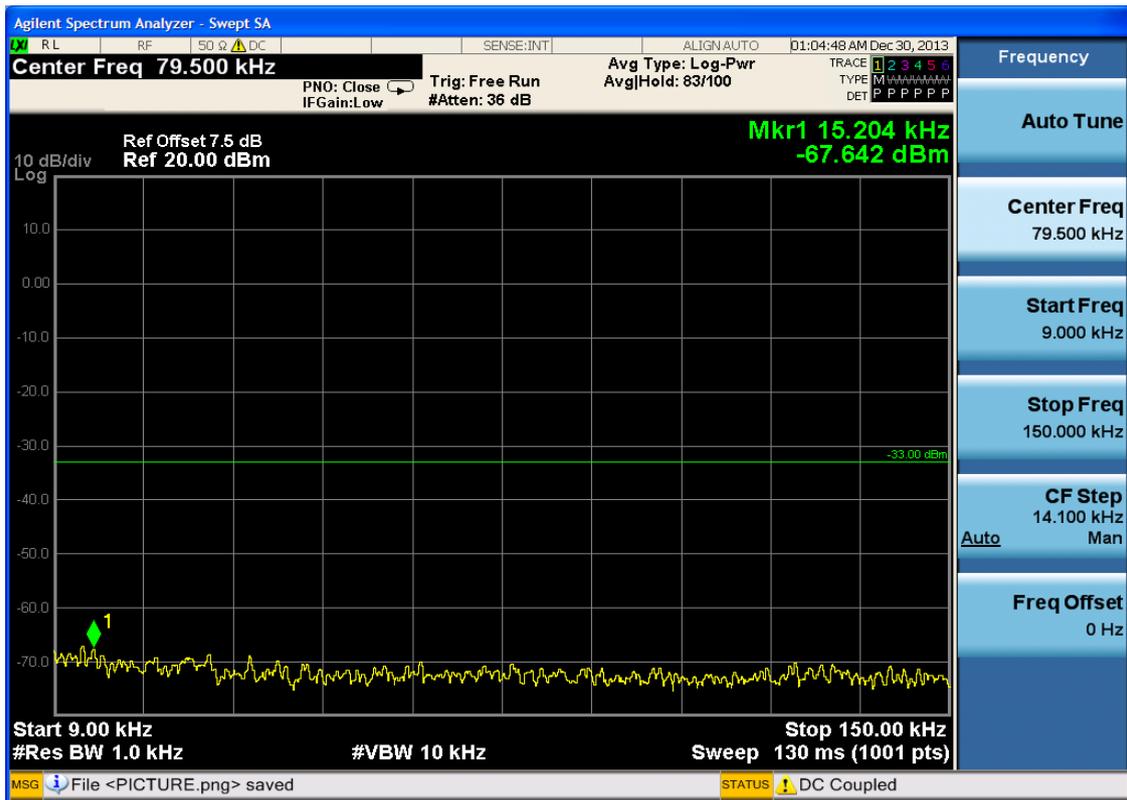


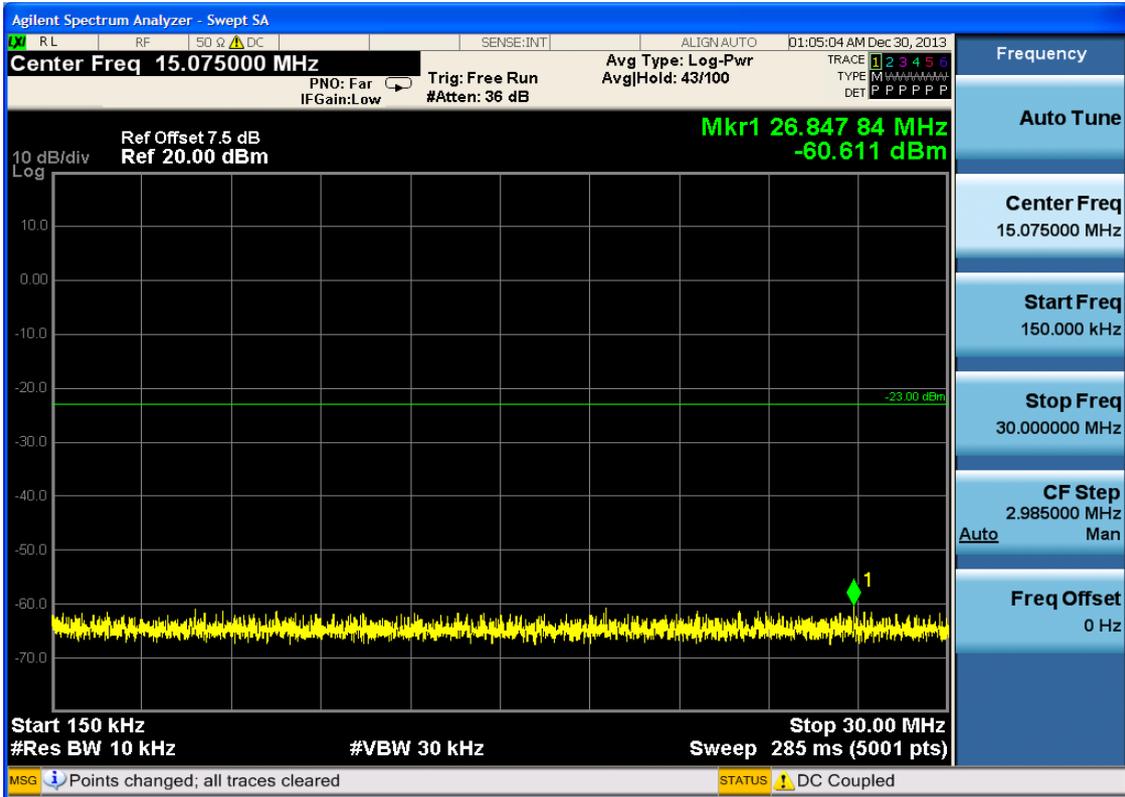
6.2 For UMTS

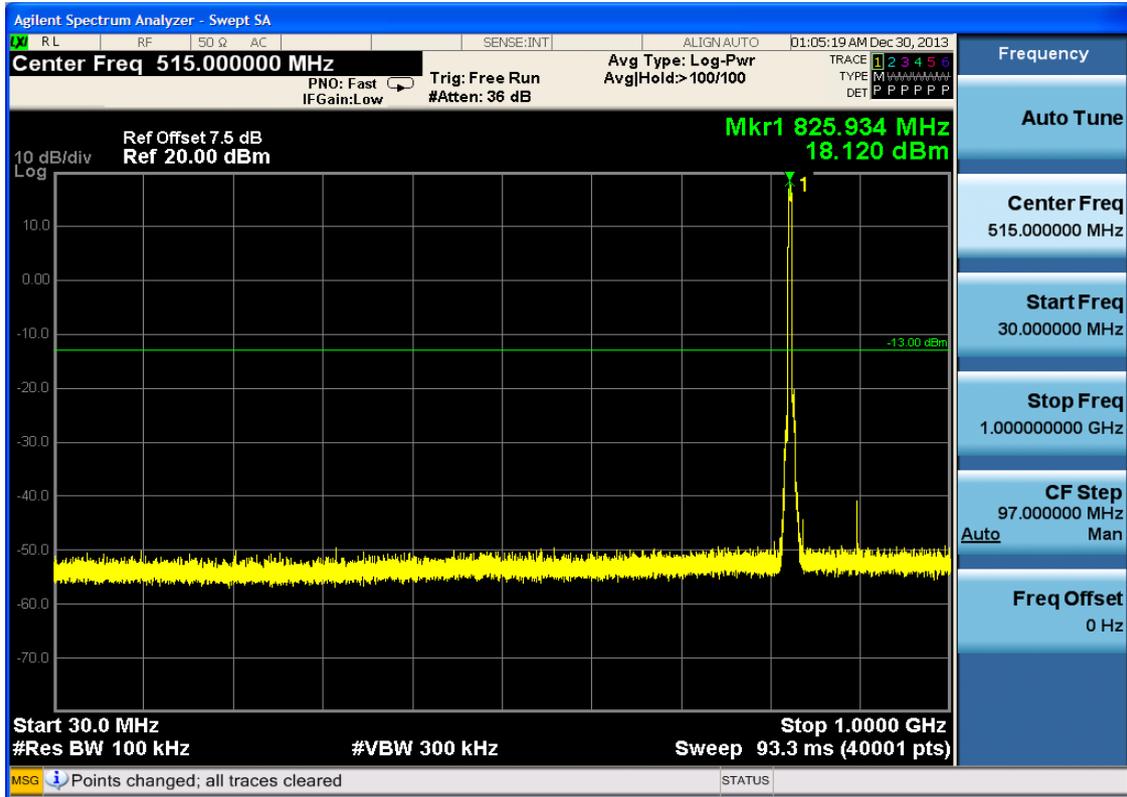
6.2.1 Test Band = WCDMA850

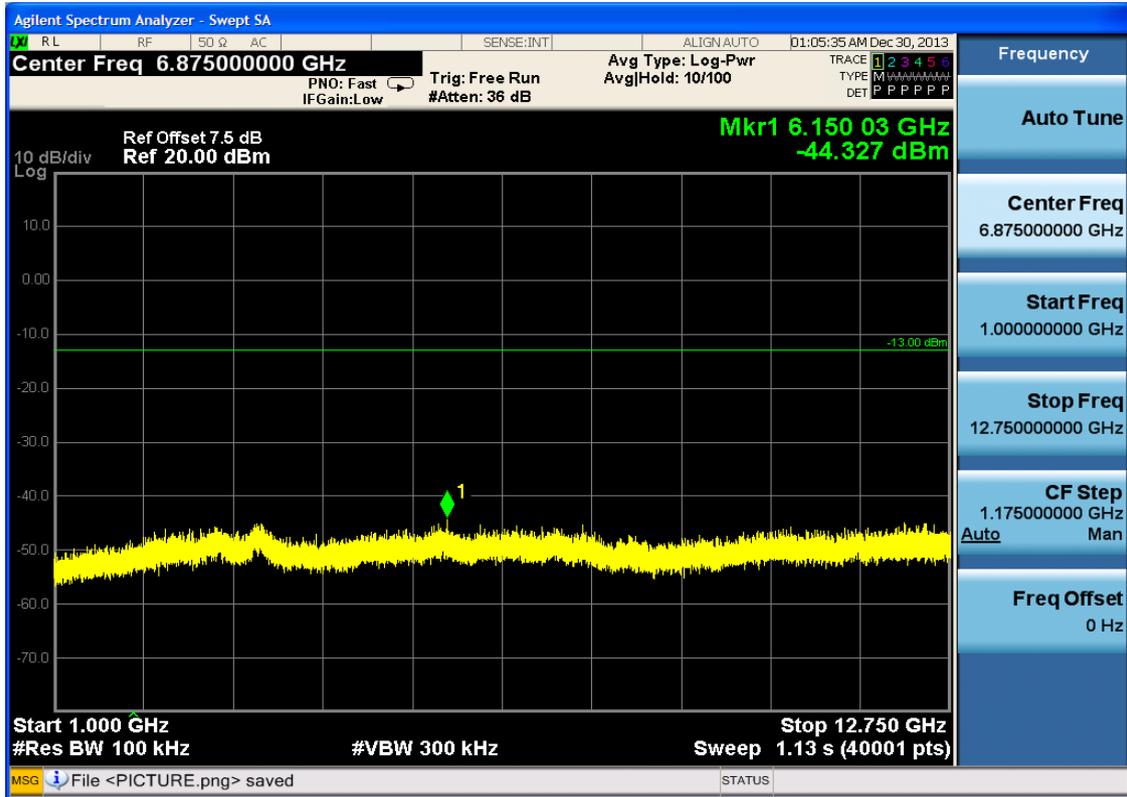
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



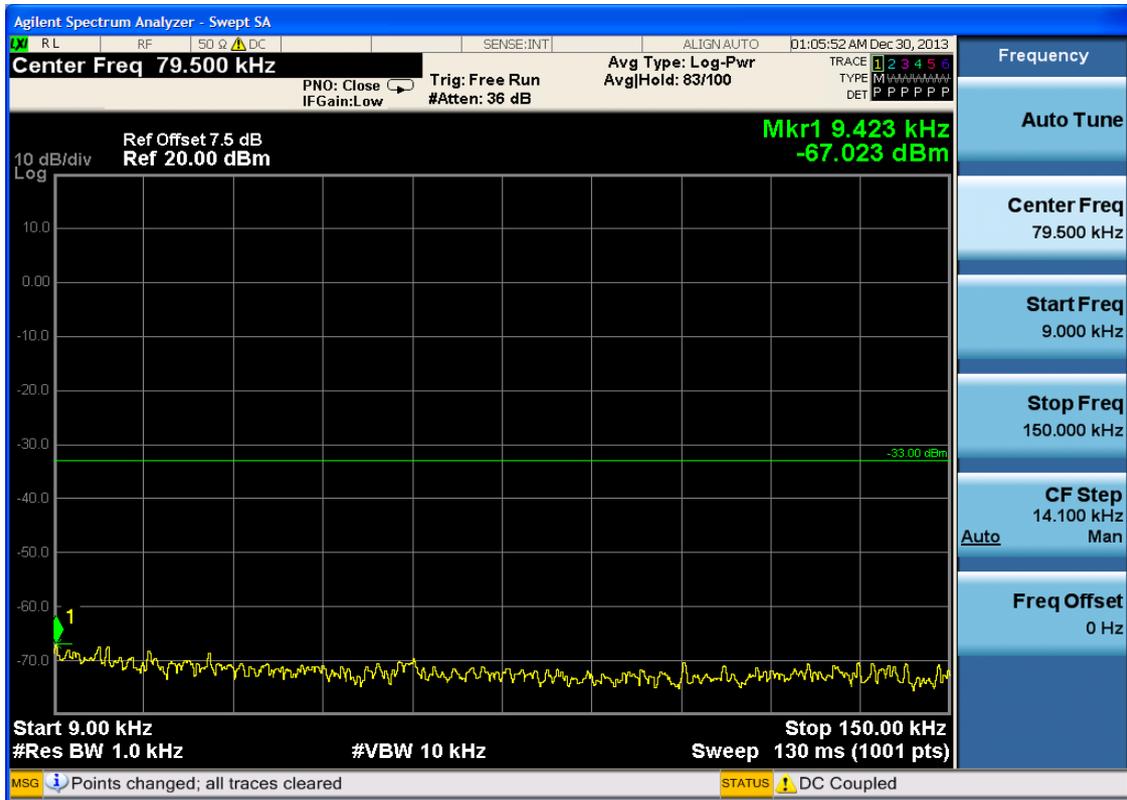


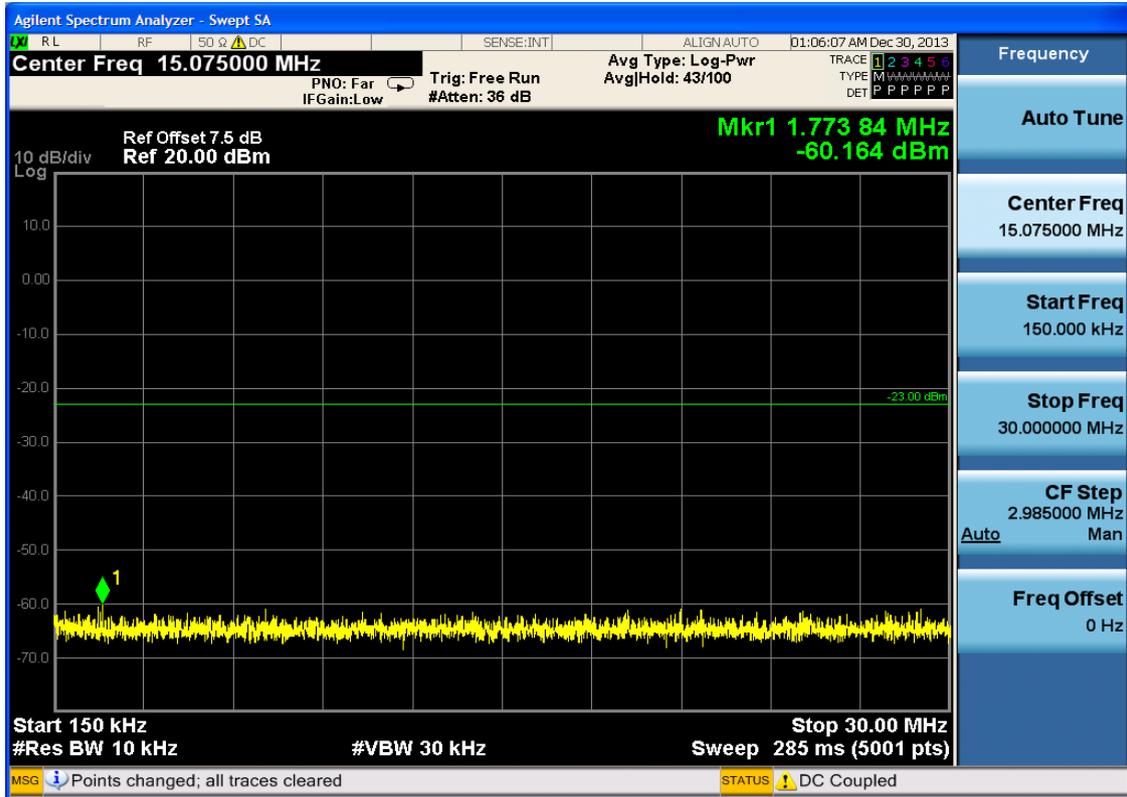


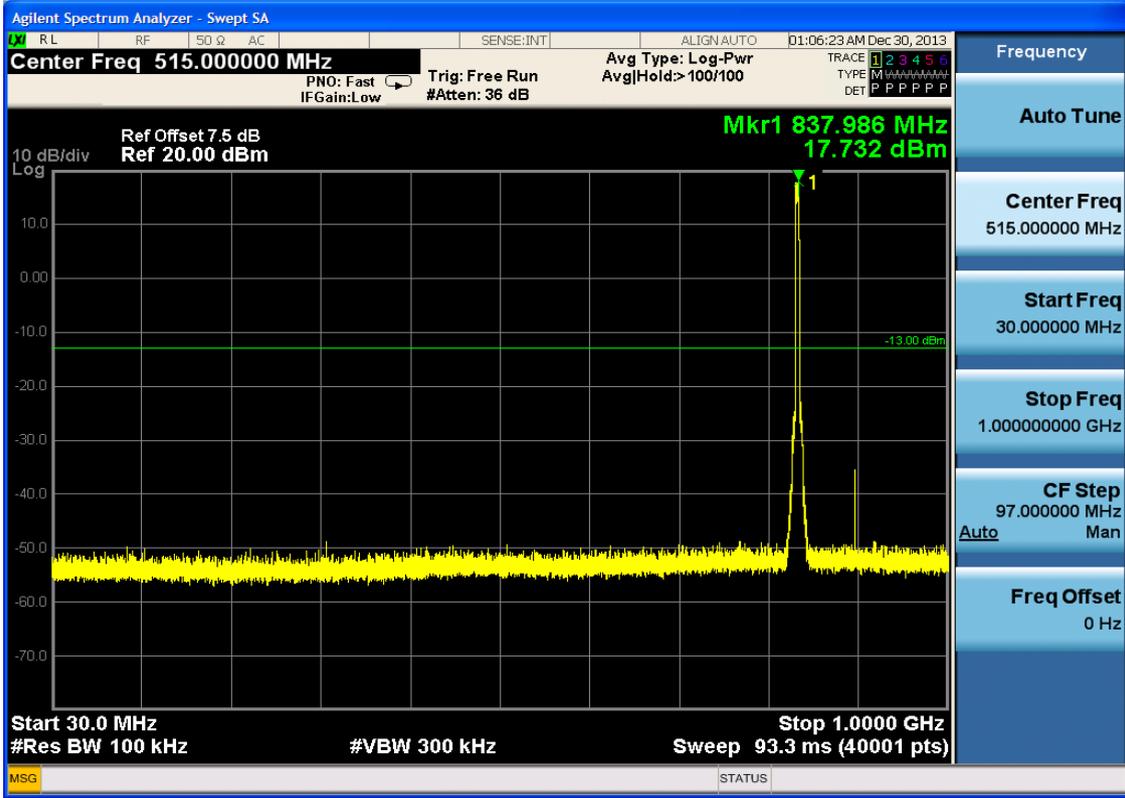


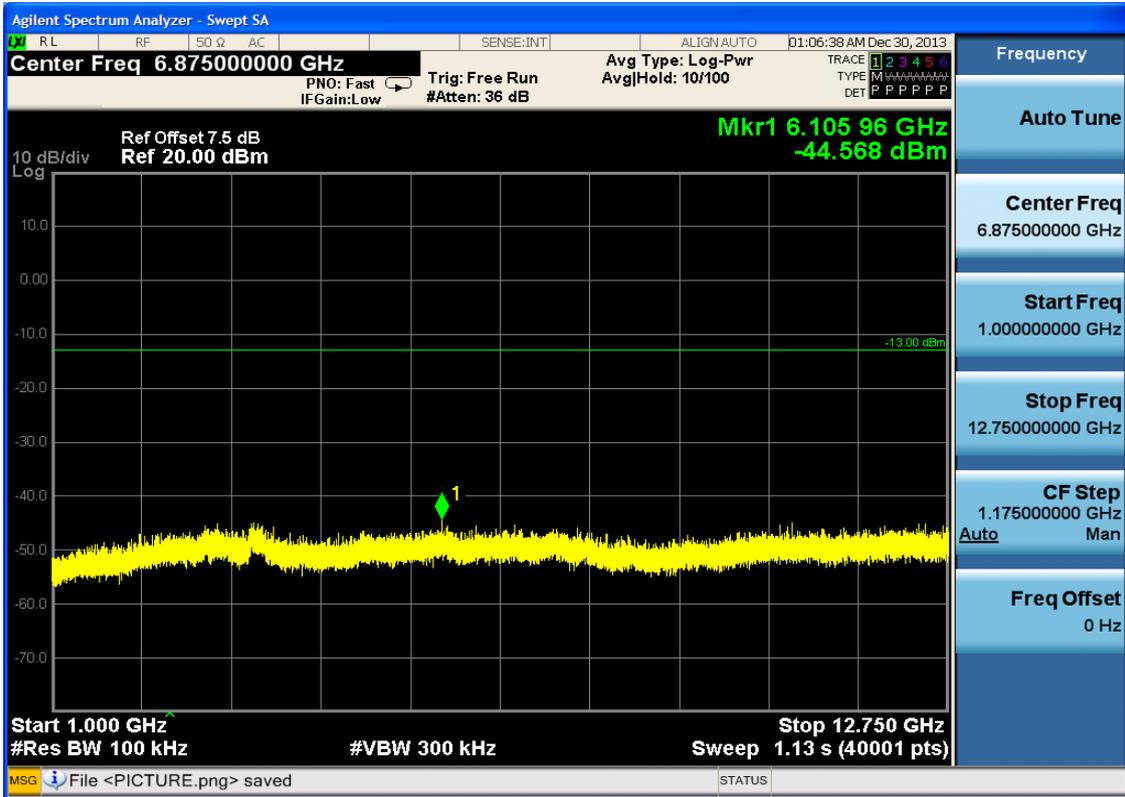


6.2.1.1.2 Test Channel = MCH



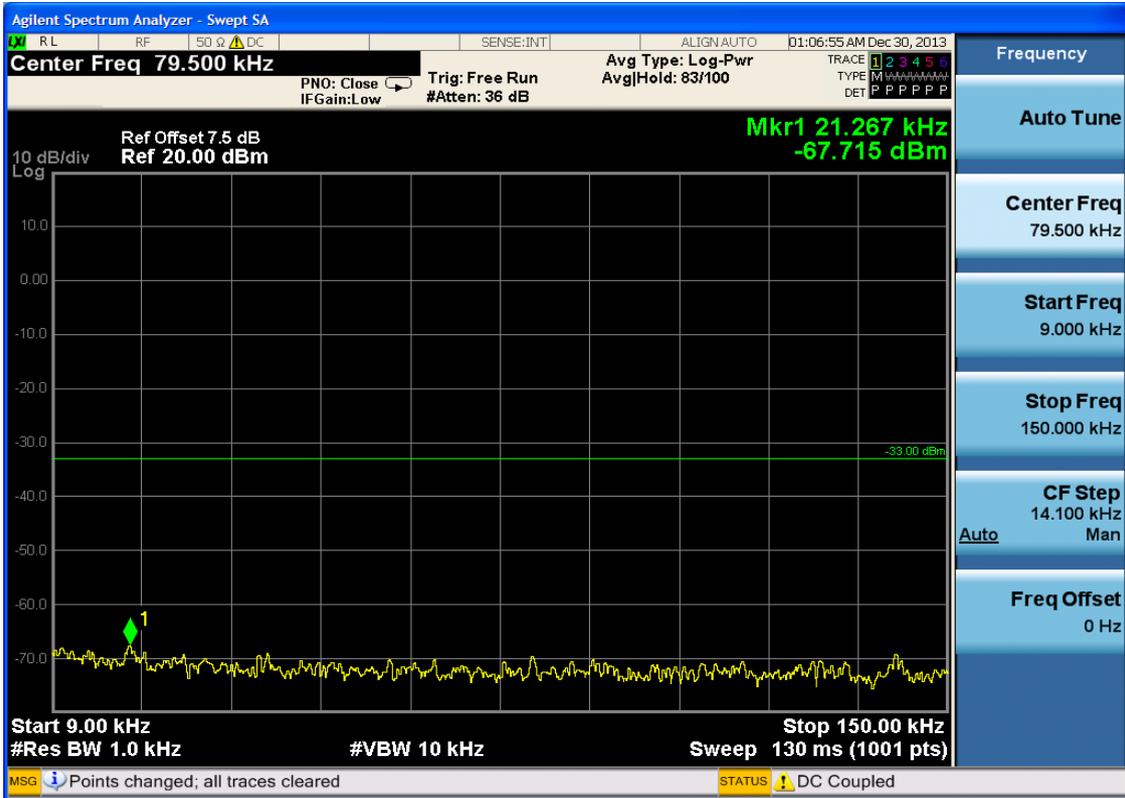


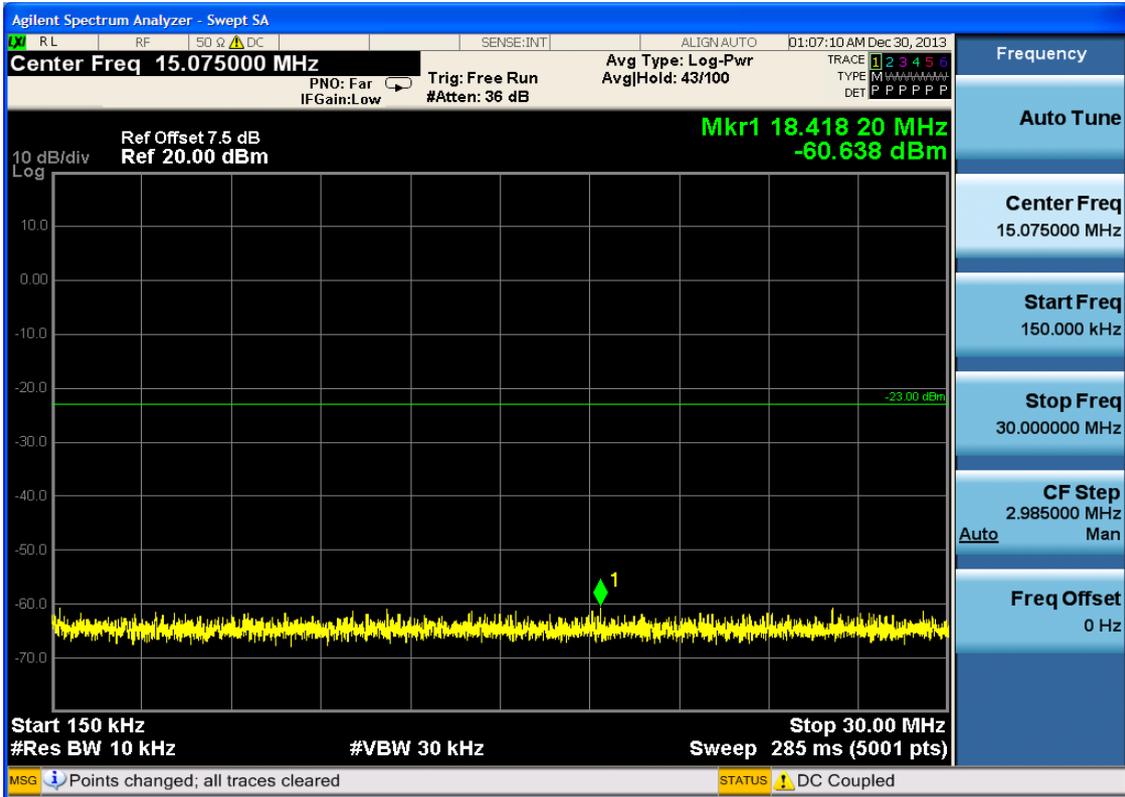


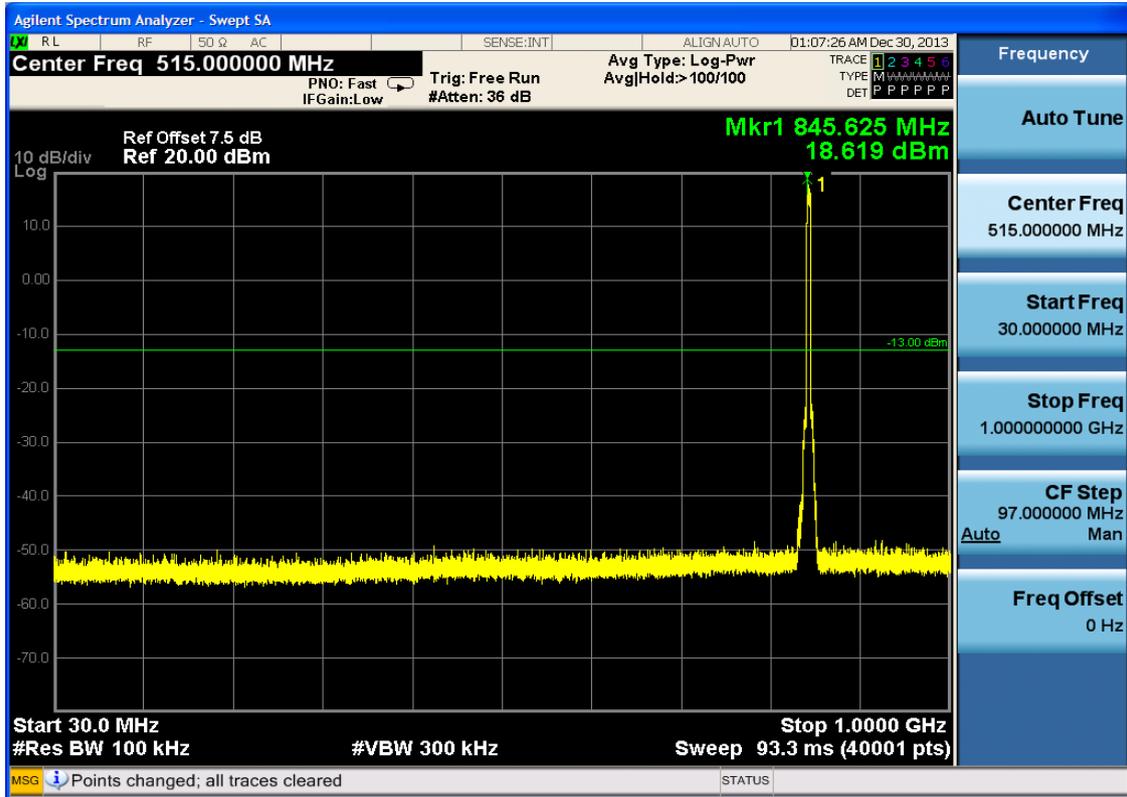


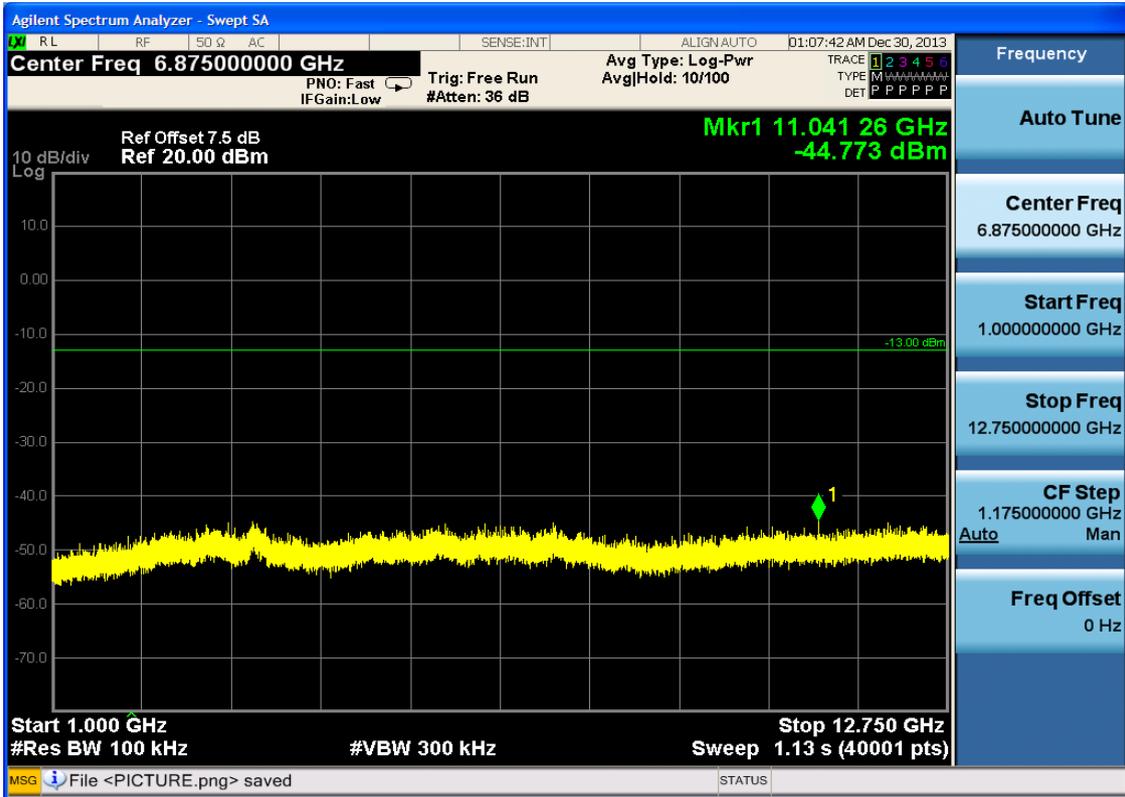


6.2.1.1.3 Test Channel = HCH







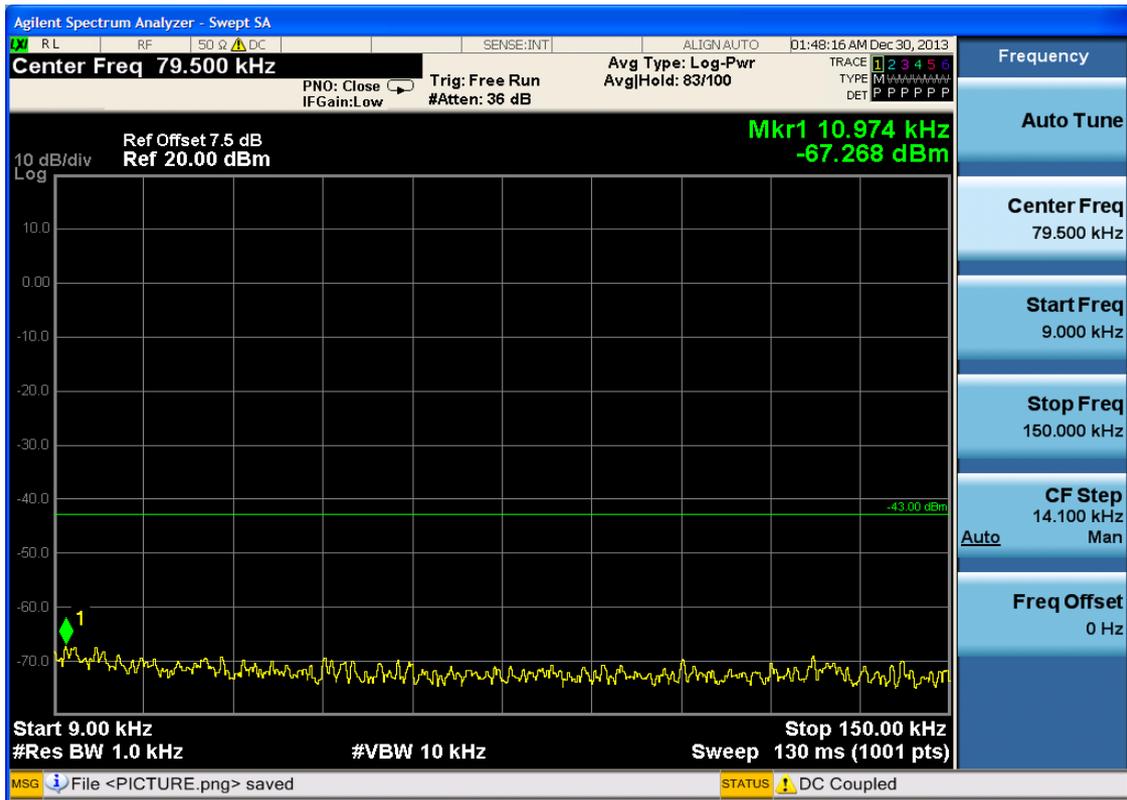


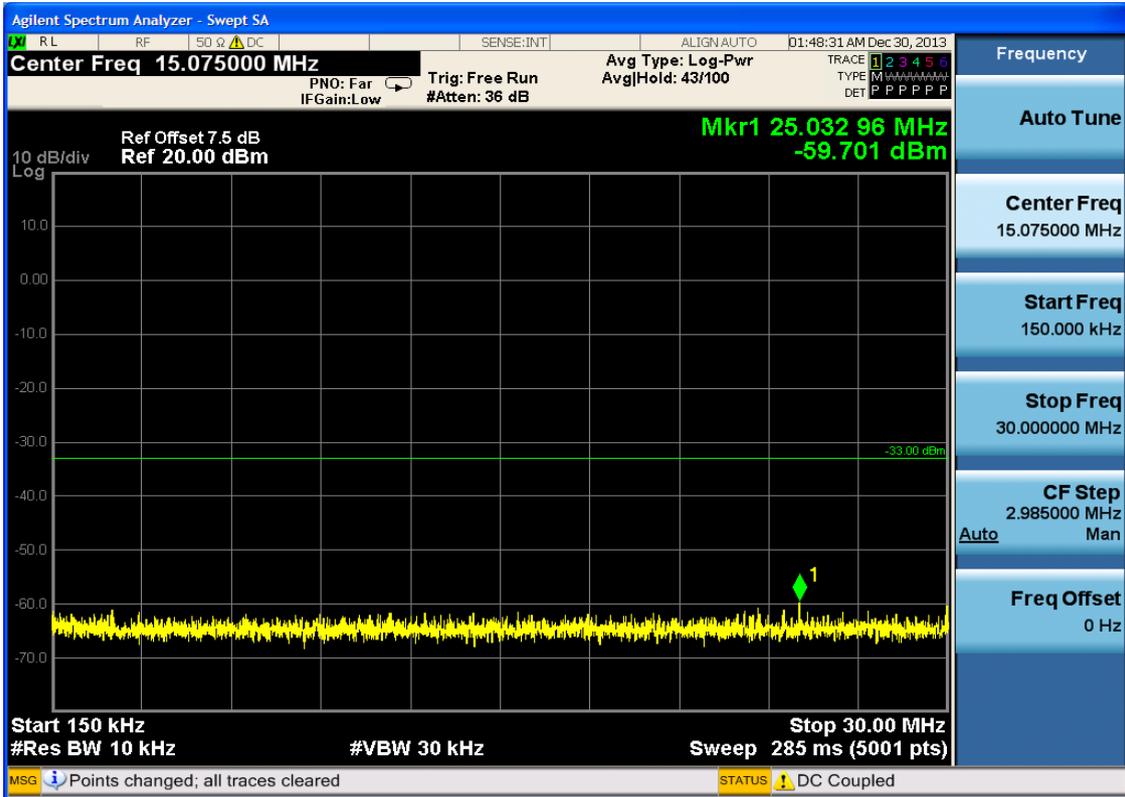


6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

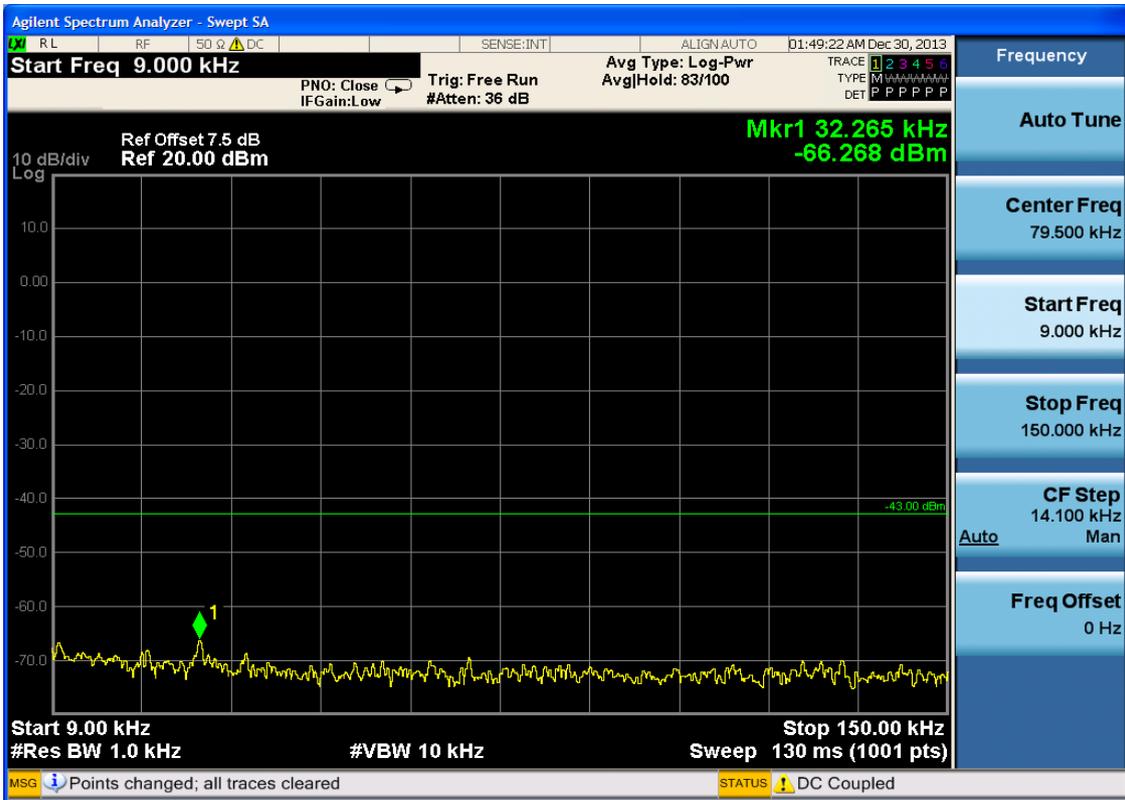


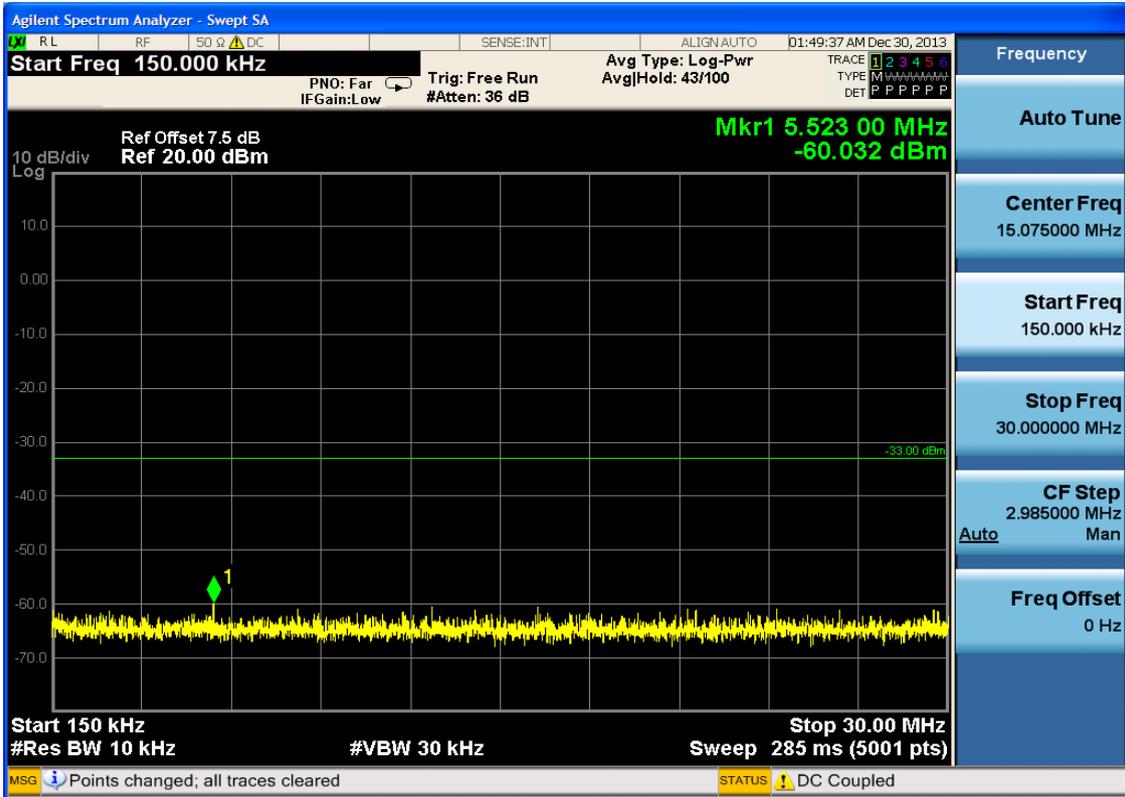






6.2.2.1.2 Test Channel = MCH

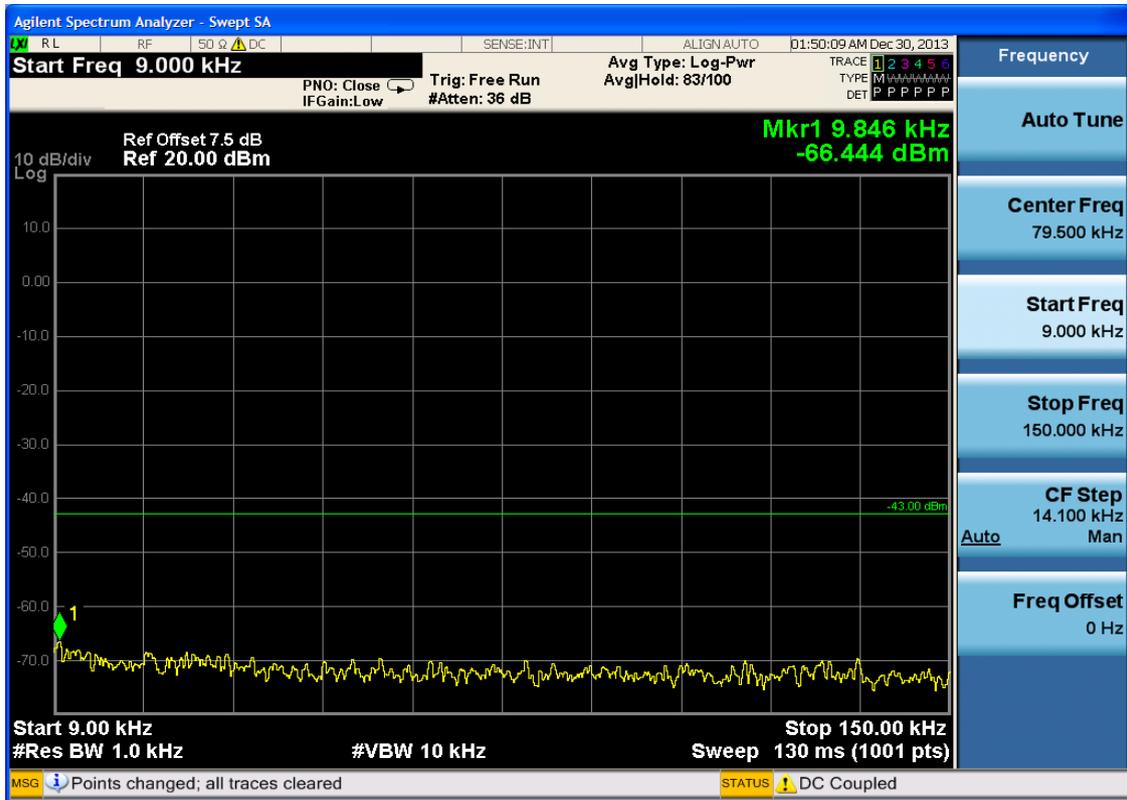


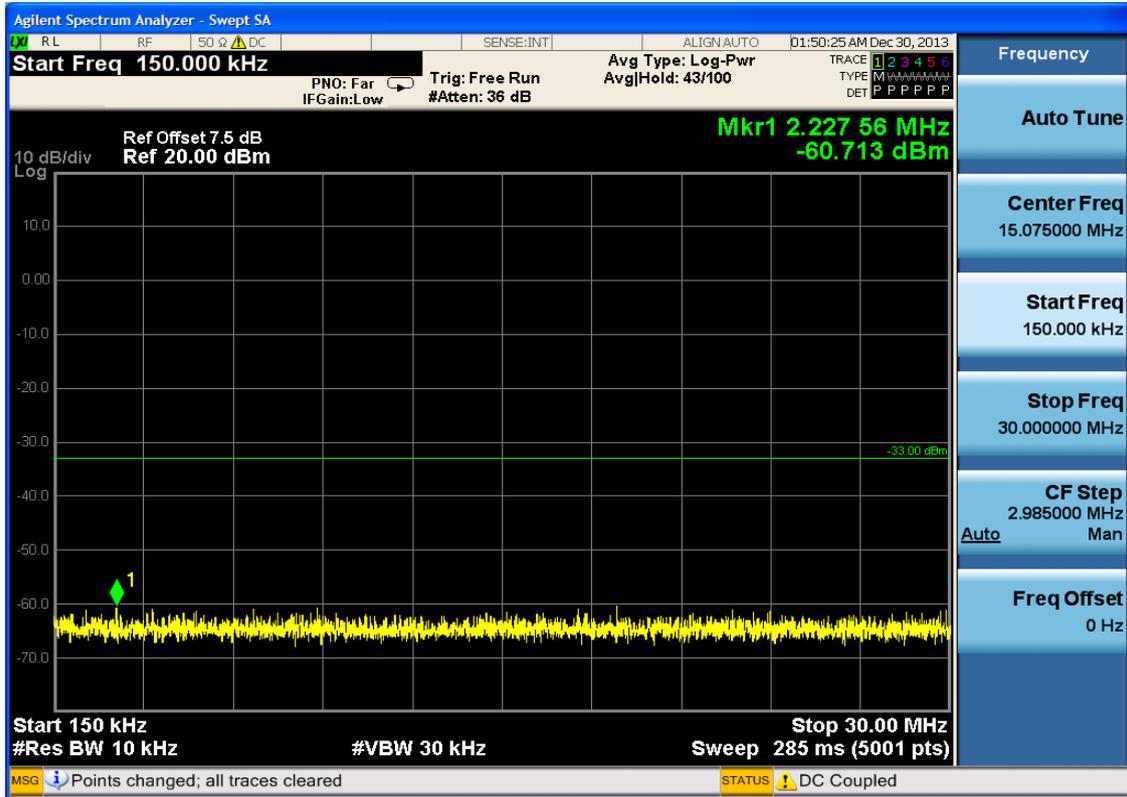


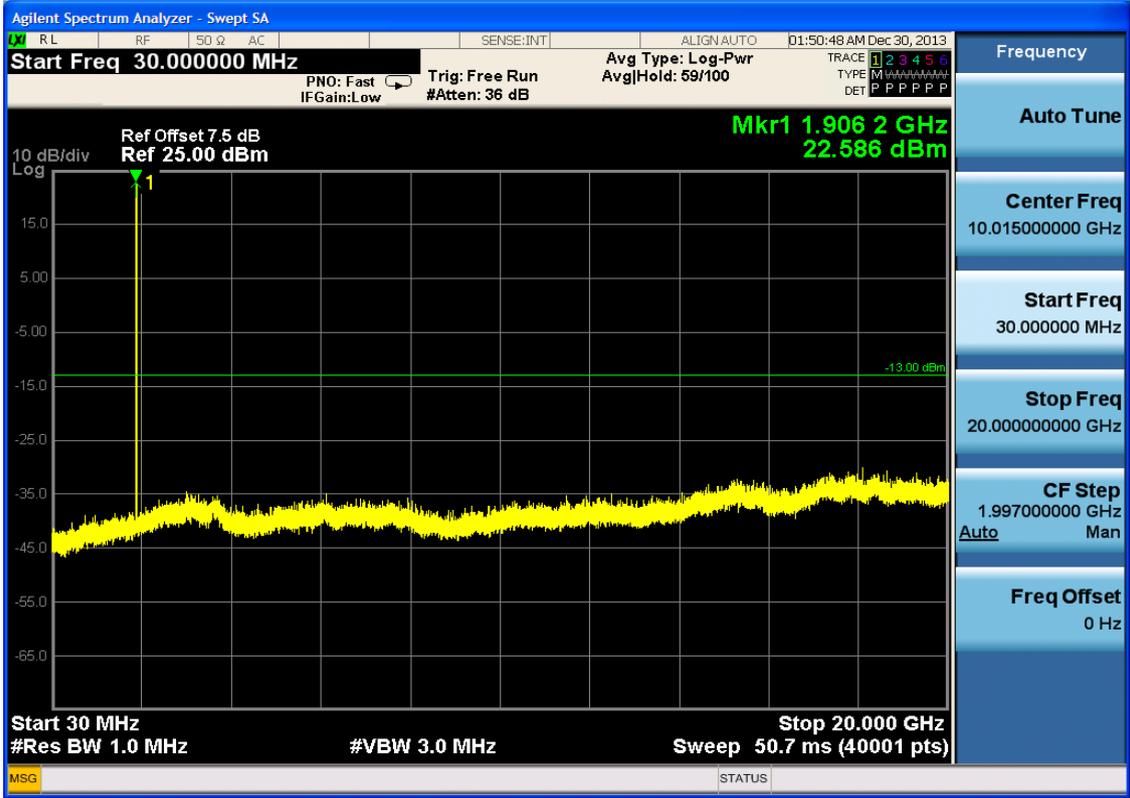




6.2.2.1.3 Test Channel = HCH







7Appendix_G: Field Strength of Spurious Radiation

Note:

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

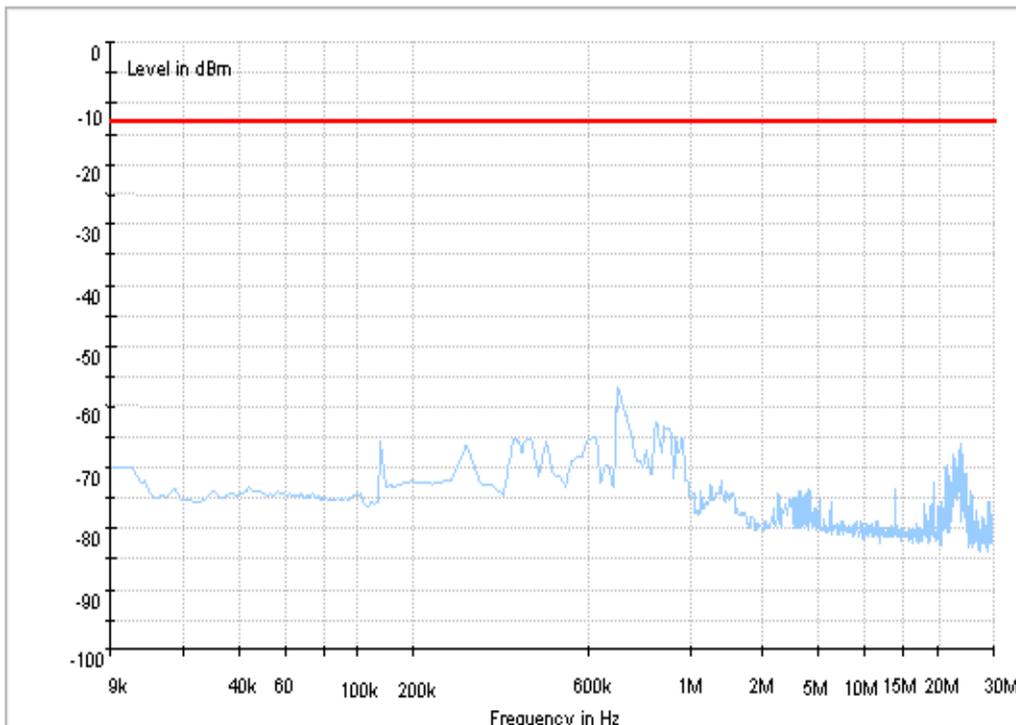
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

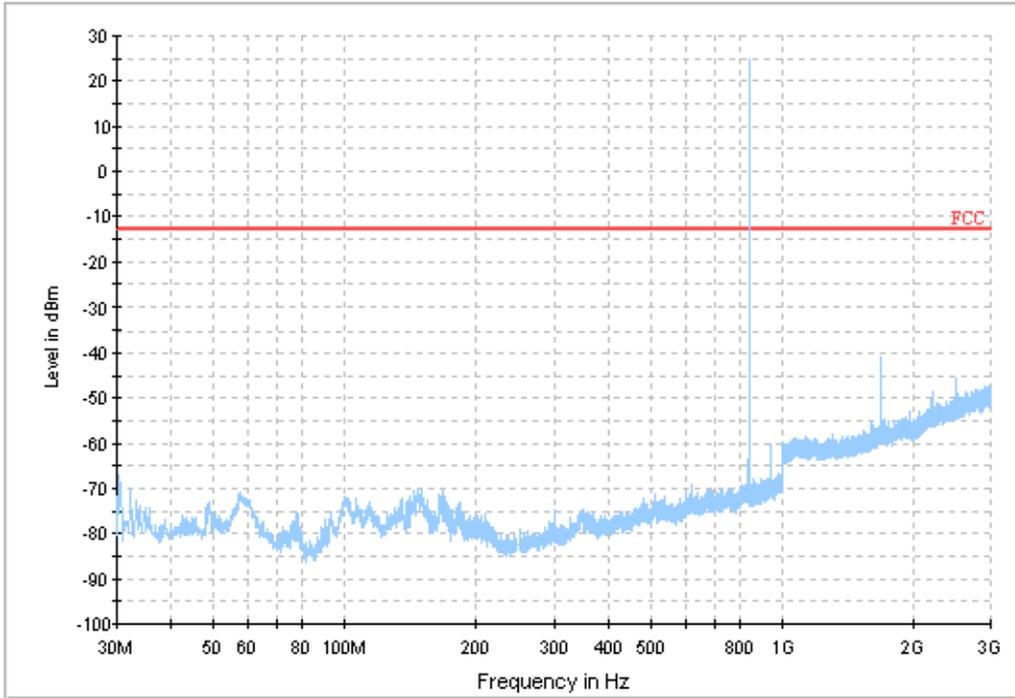
7.1 For GSM

7.1.1 Test Band = GSM850

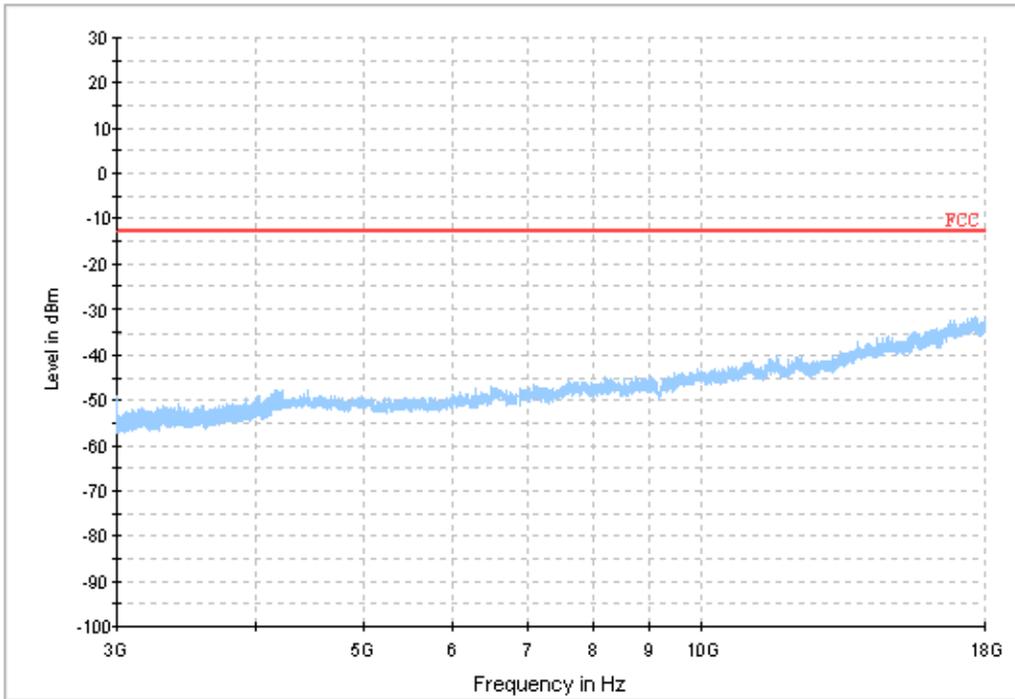
7.1.1.1 Test Mode = GSM/TM1



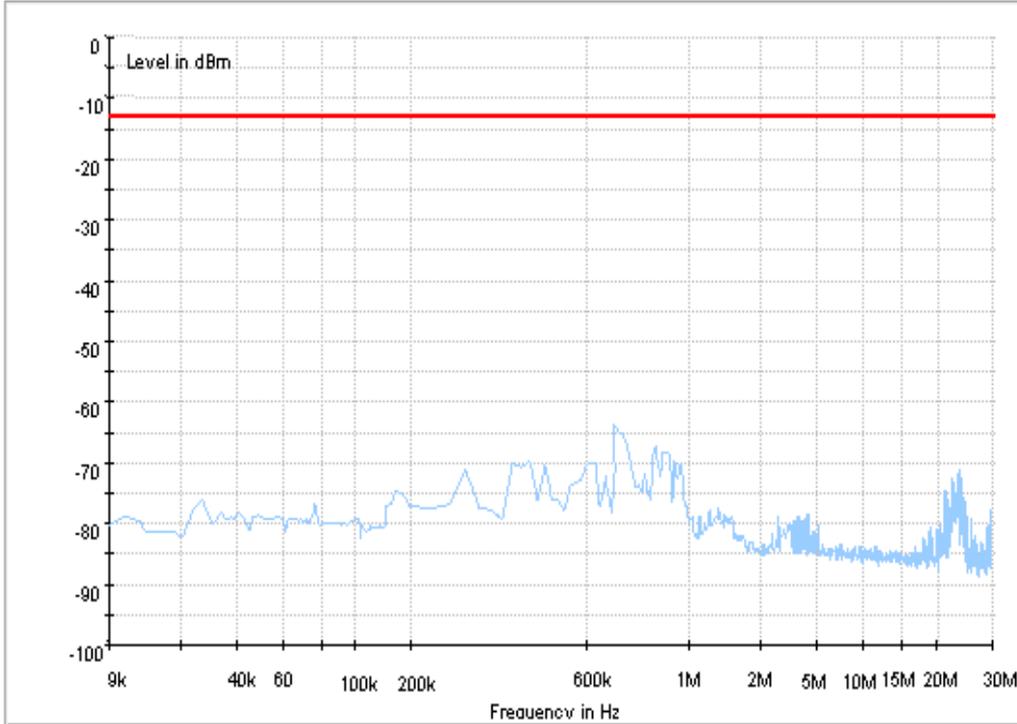
Copy of FCC PART22 GSM850_L



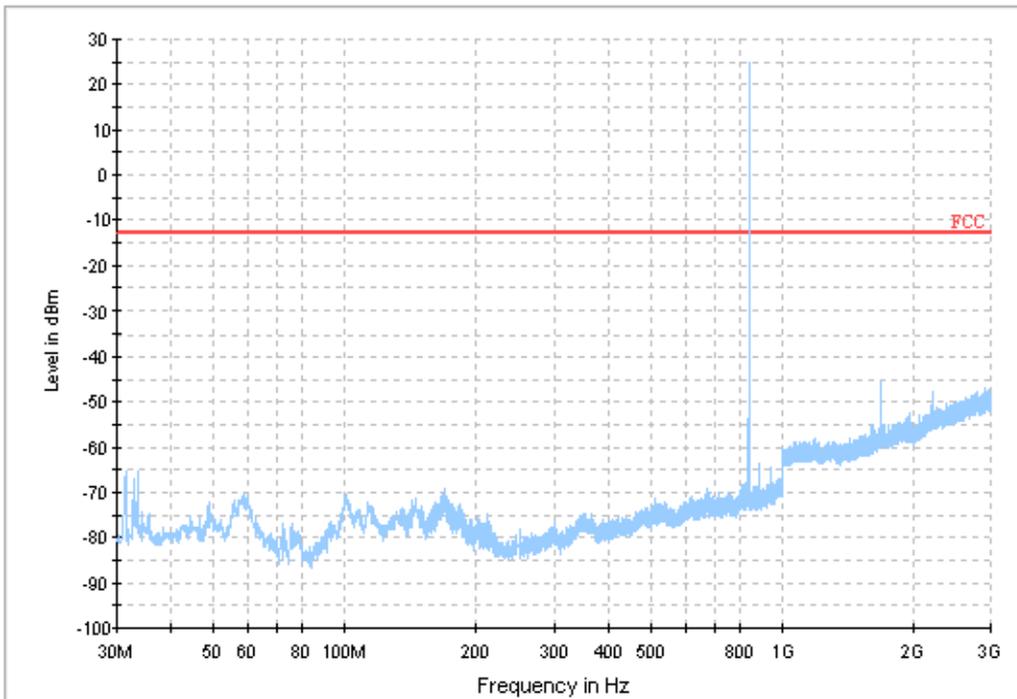
Copy of FCC PART22 GSM850_H



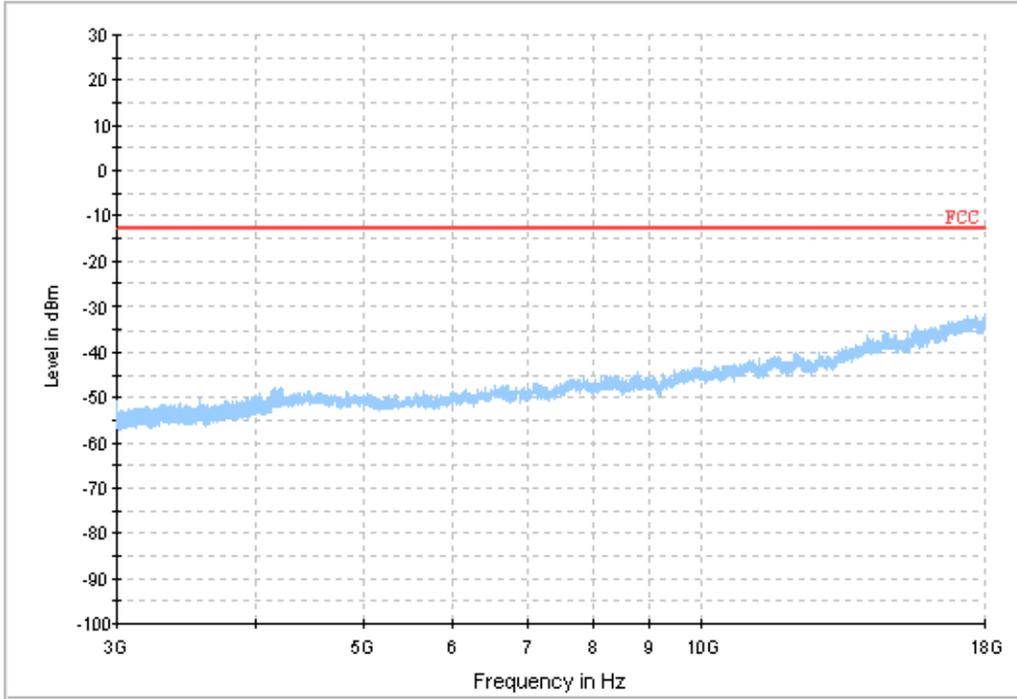
7.1.1.2 Test Mode = GSM/TM2



Copy of FCC PART22 GSM850_L

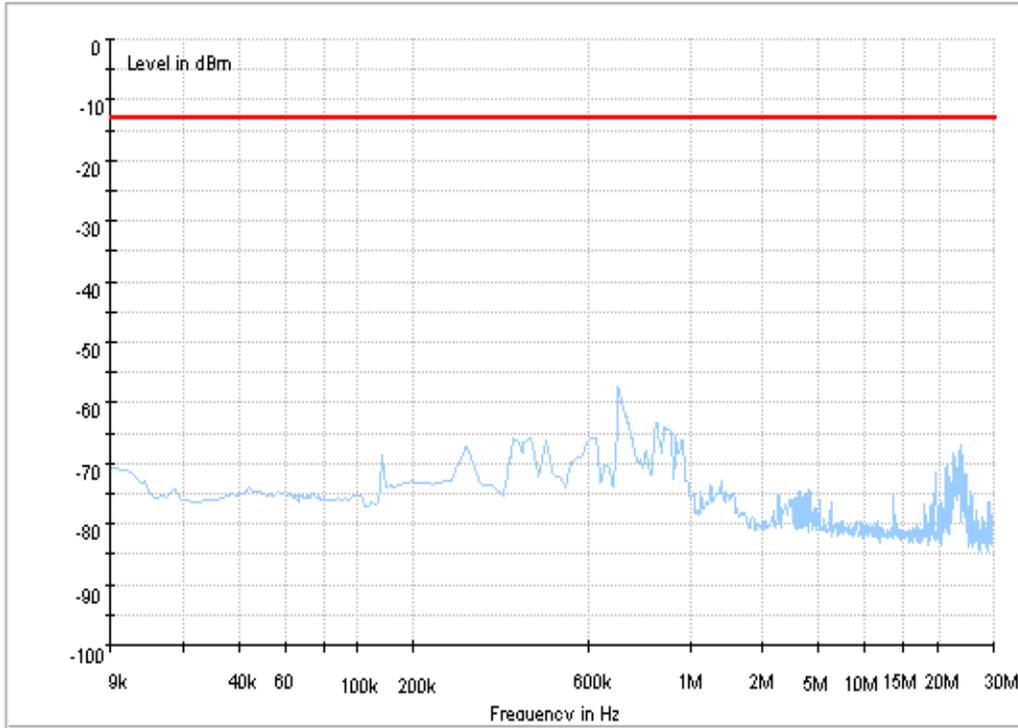


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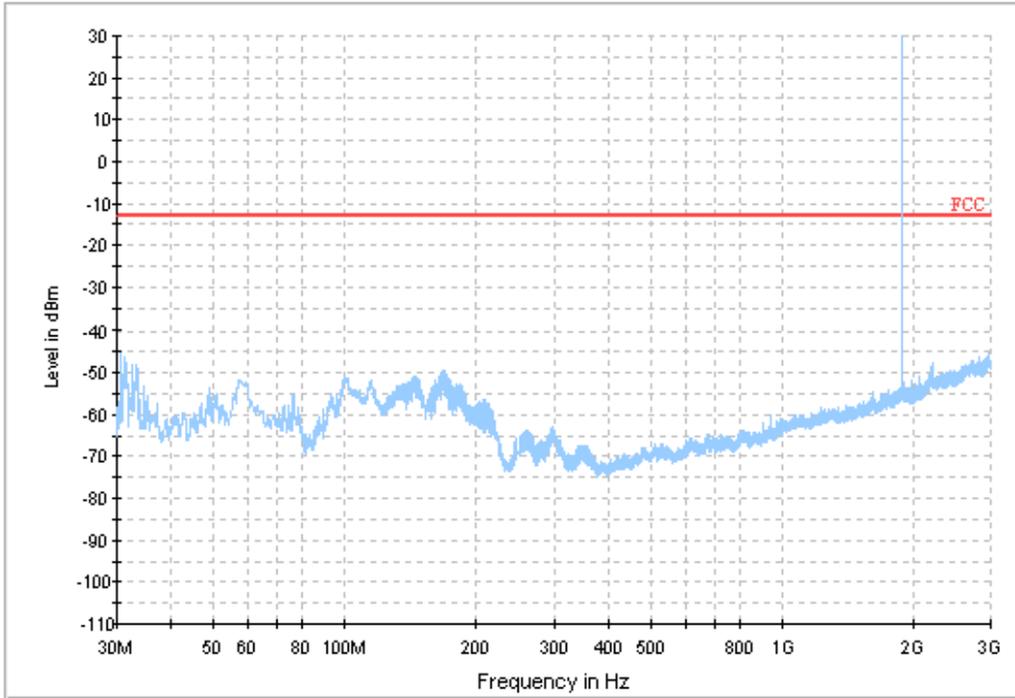


7.1.2 Test Band = GSM1900

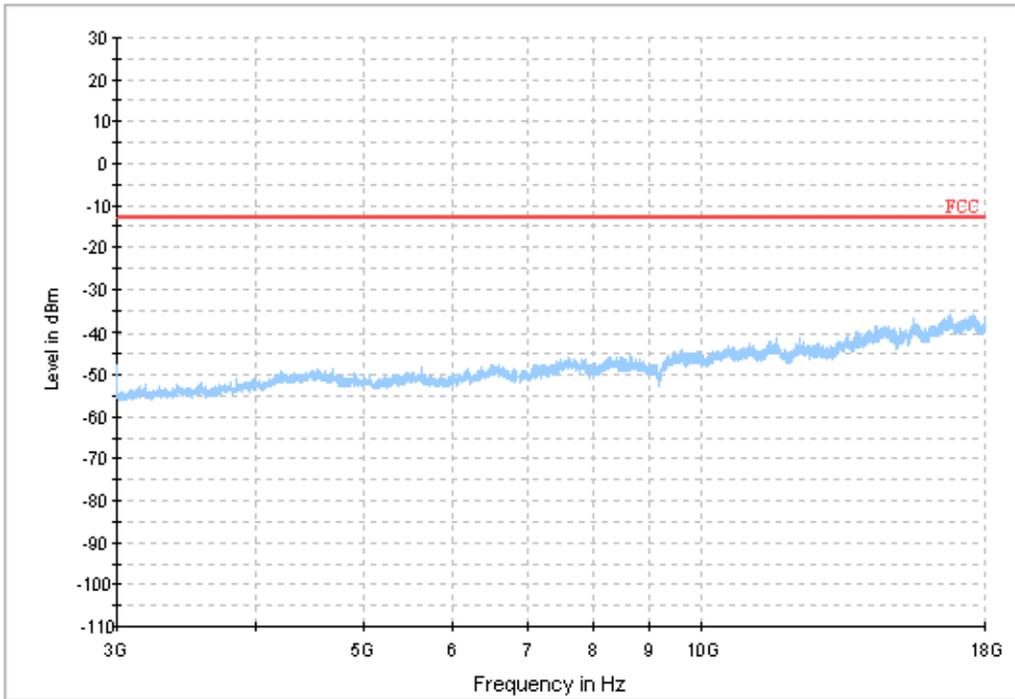
7.1.2.1 Test Mode = GSM/TM1

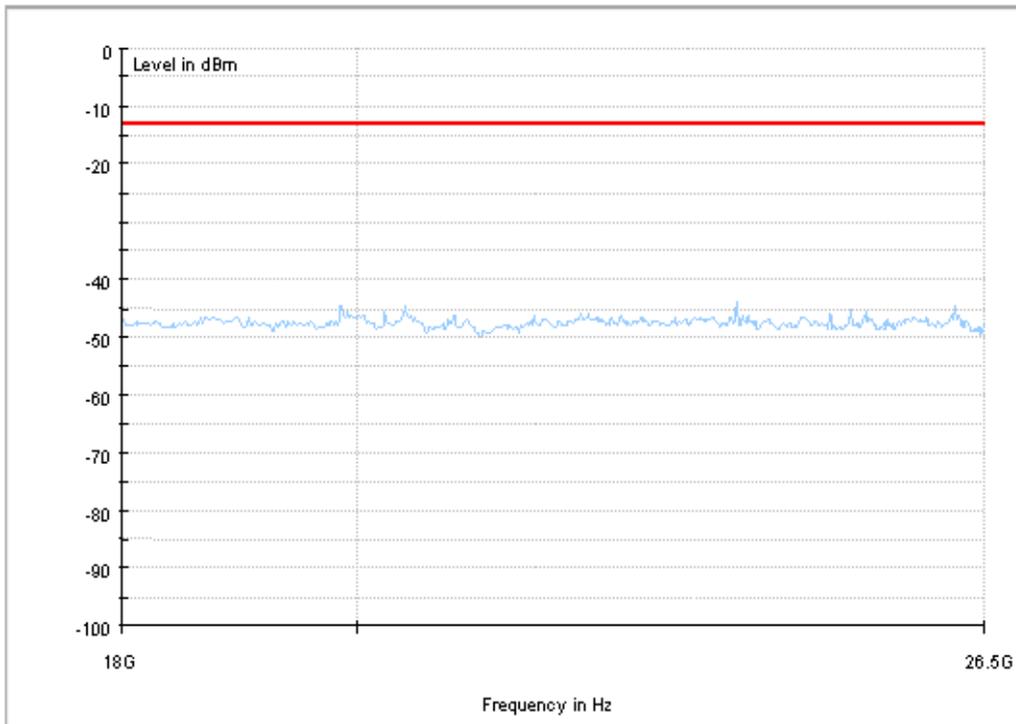


Copy of FCC PART24 GSM1900_L

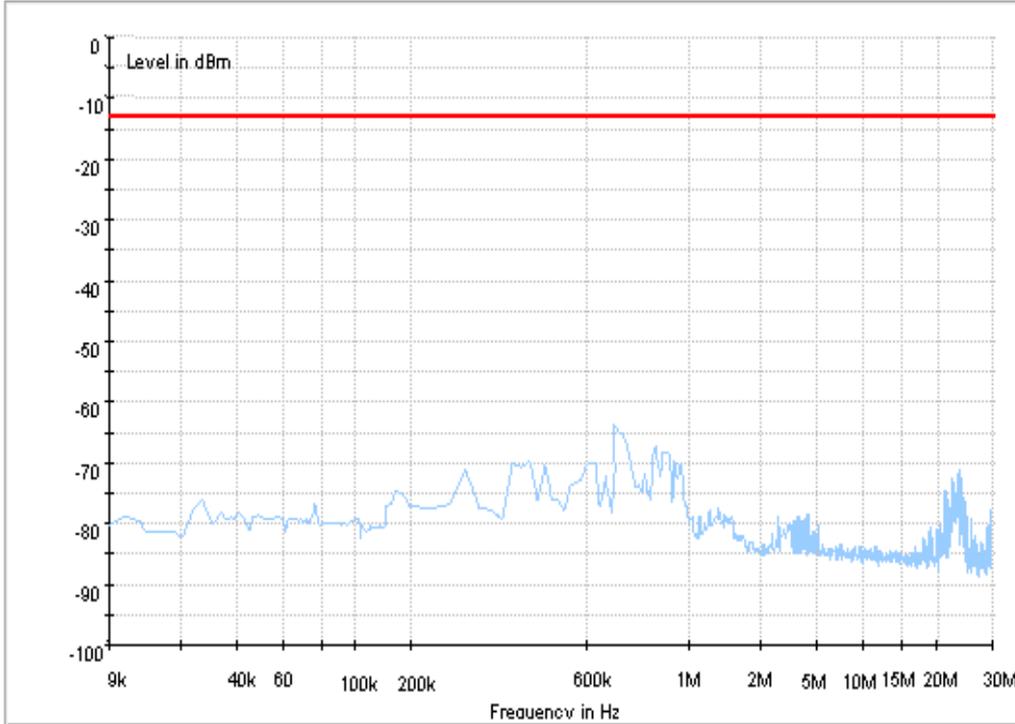


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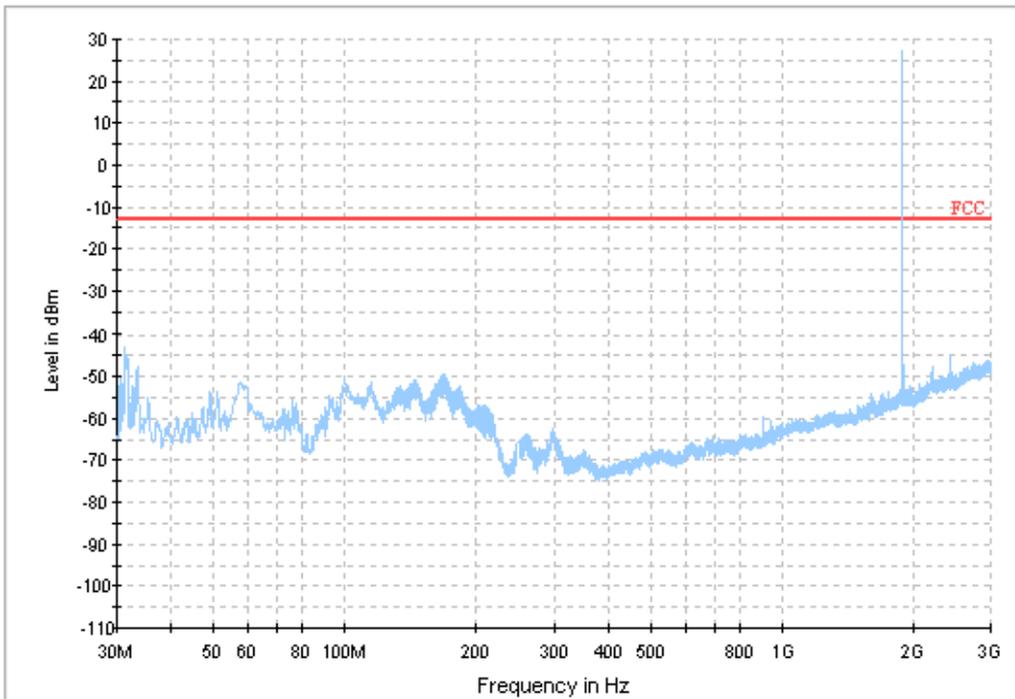




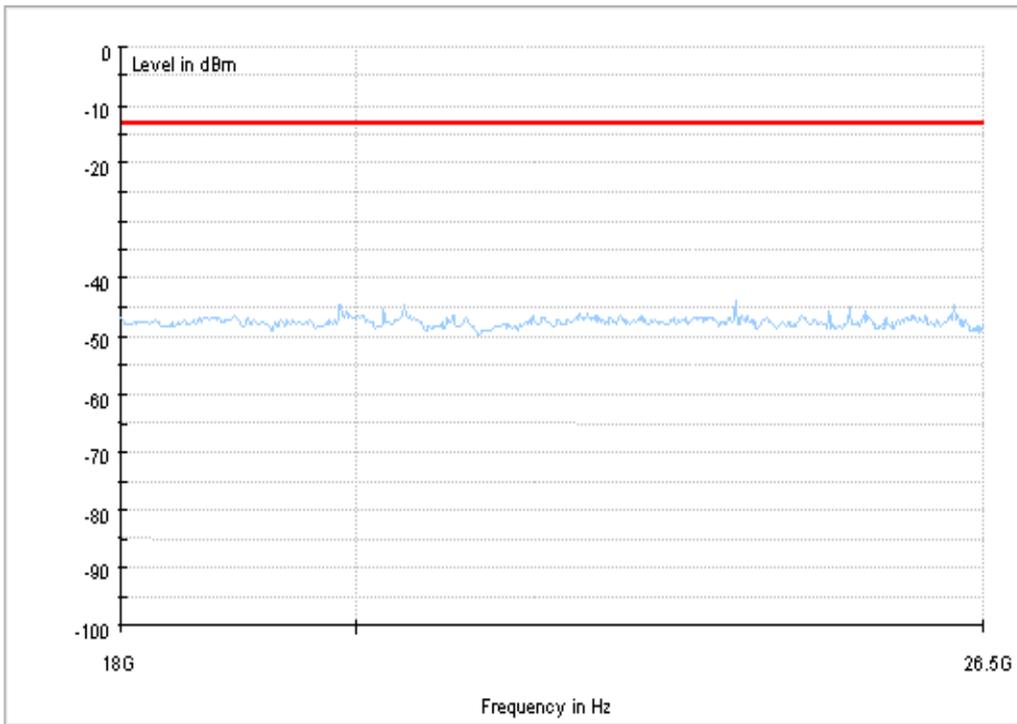
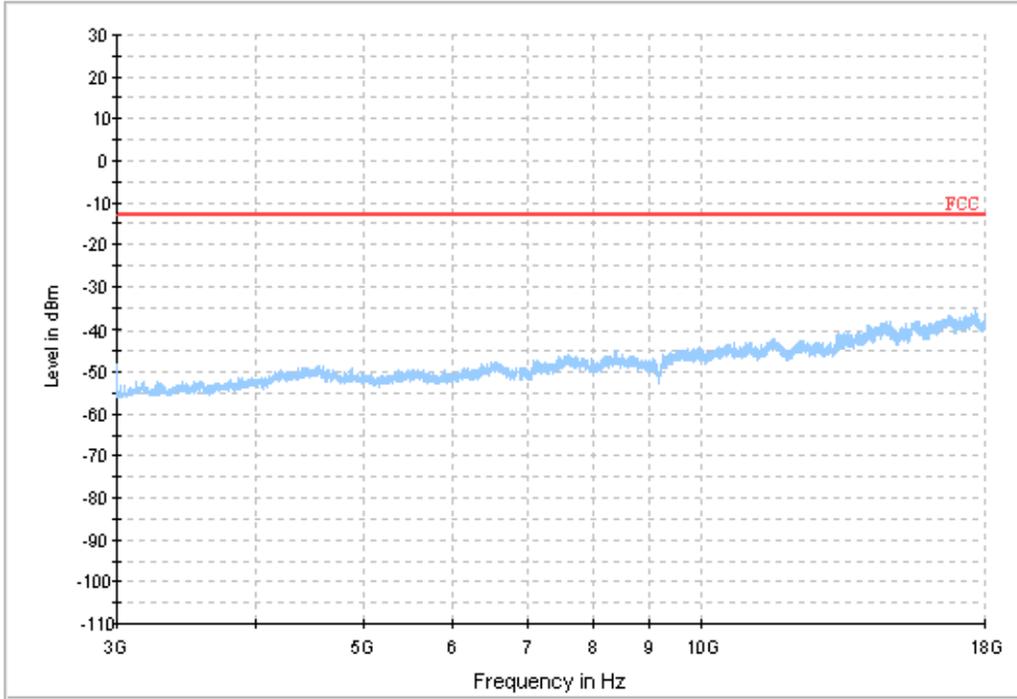
7.1.2.2 Test Mode = GSM/TM2



Copy of FCC PART24 GSM1900_L



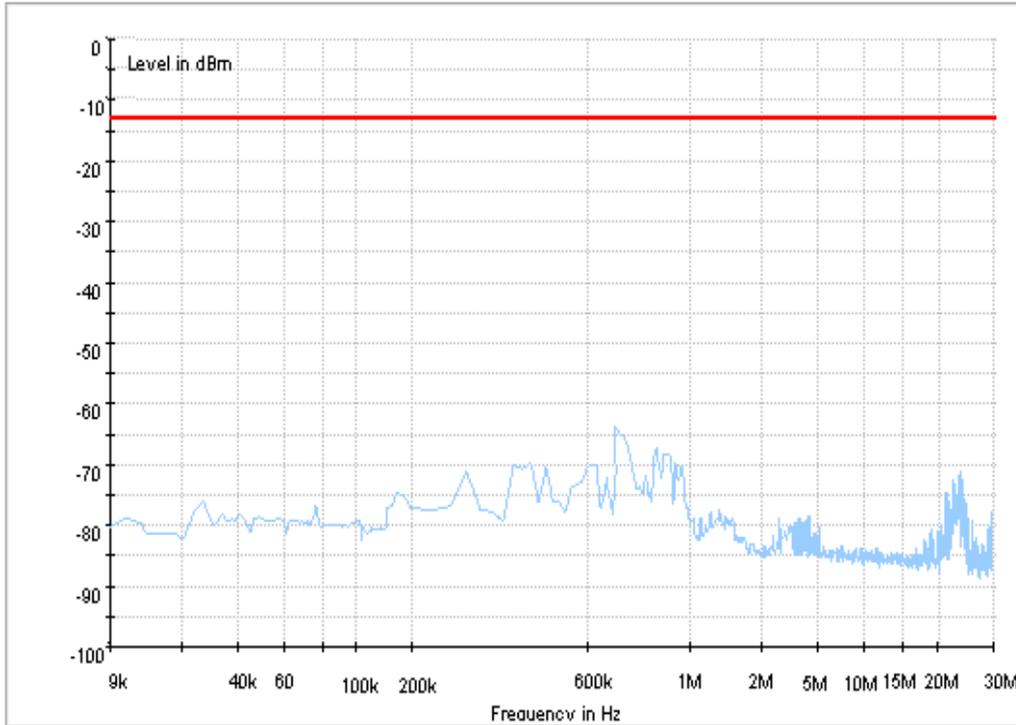
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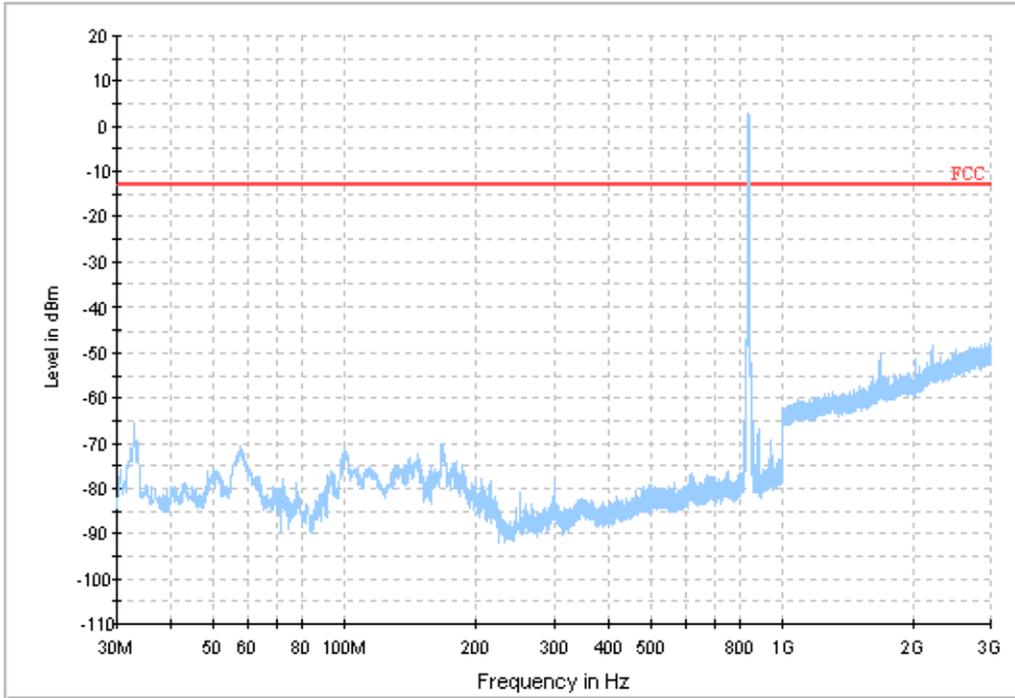
7.2 For UMTS

7.2.1 Test Band = WCDMA850

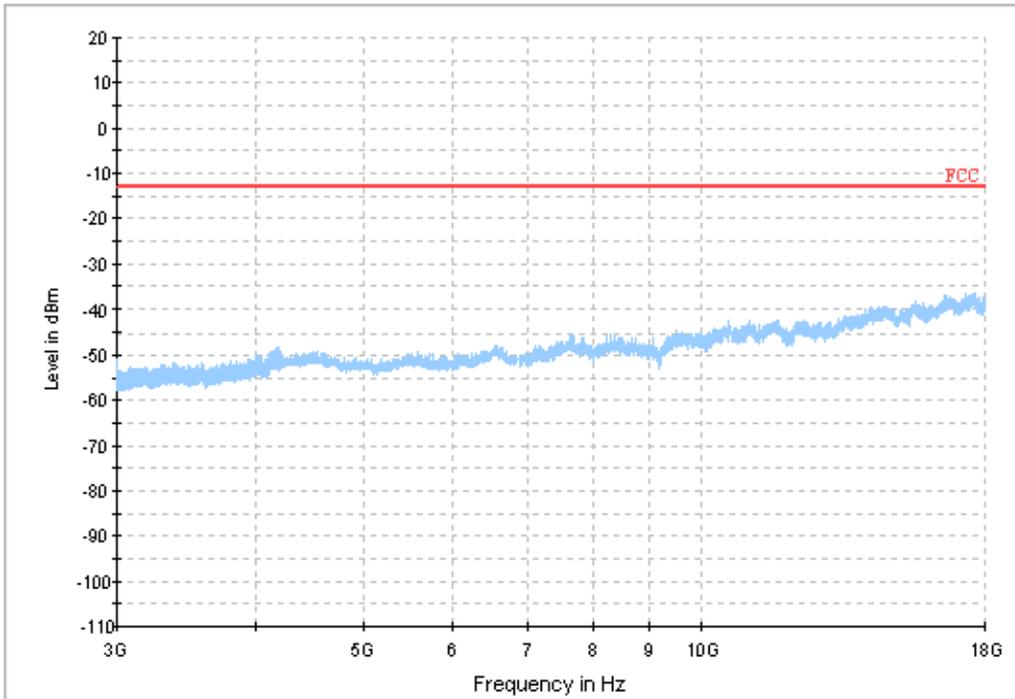
7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 WCDMA850_L

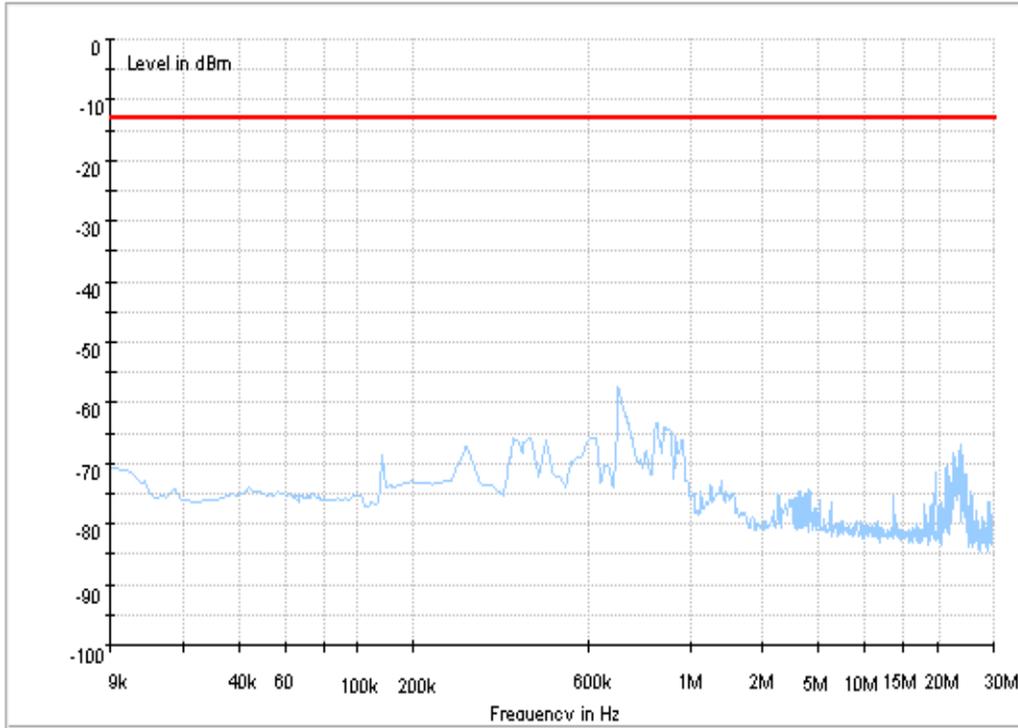


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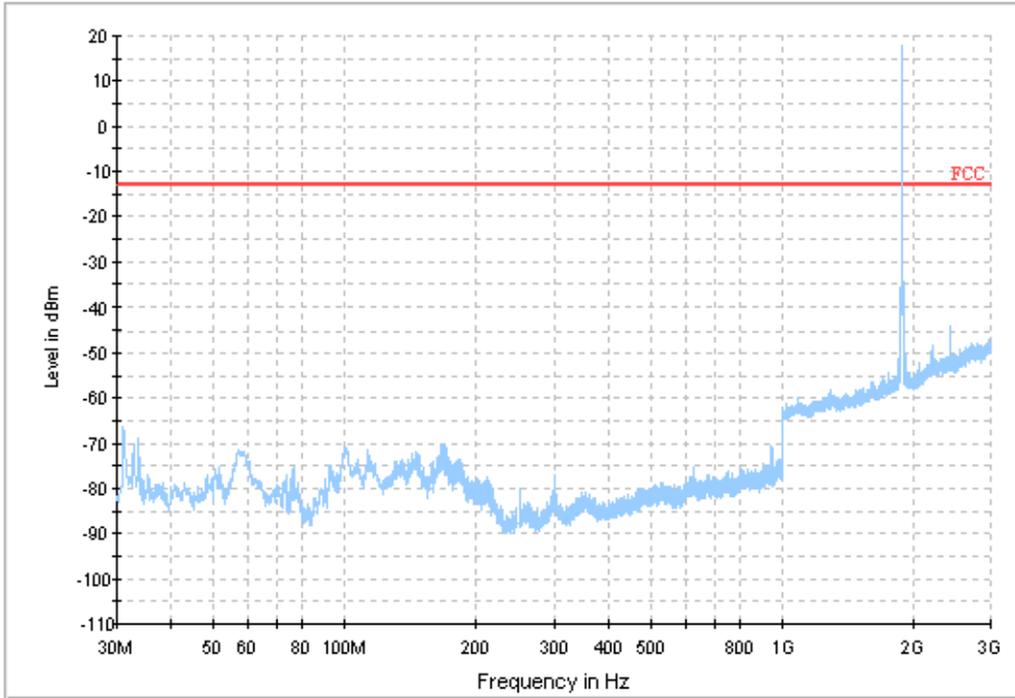


7.2.2 Test Band = WCDMA1900

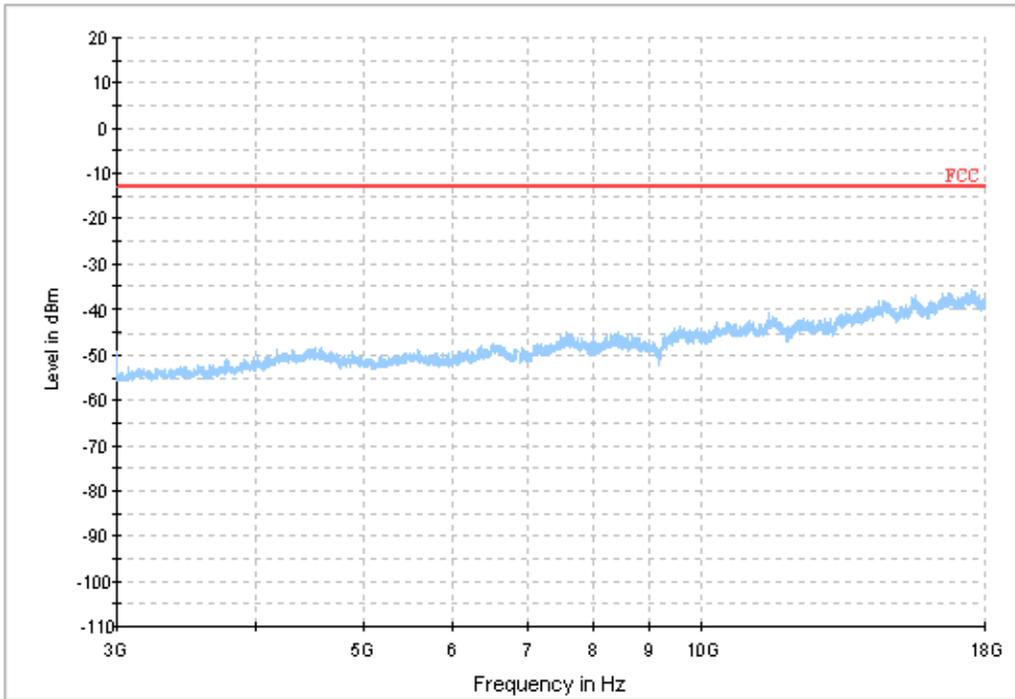
7.2.2.1 Test Mode = UMTS/TM1

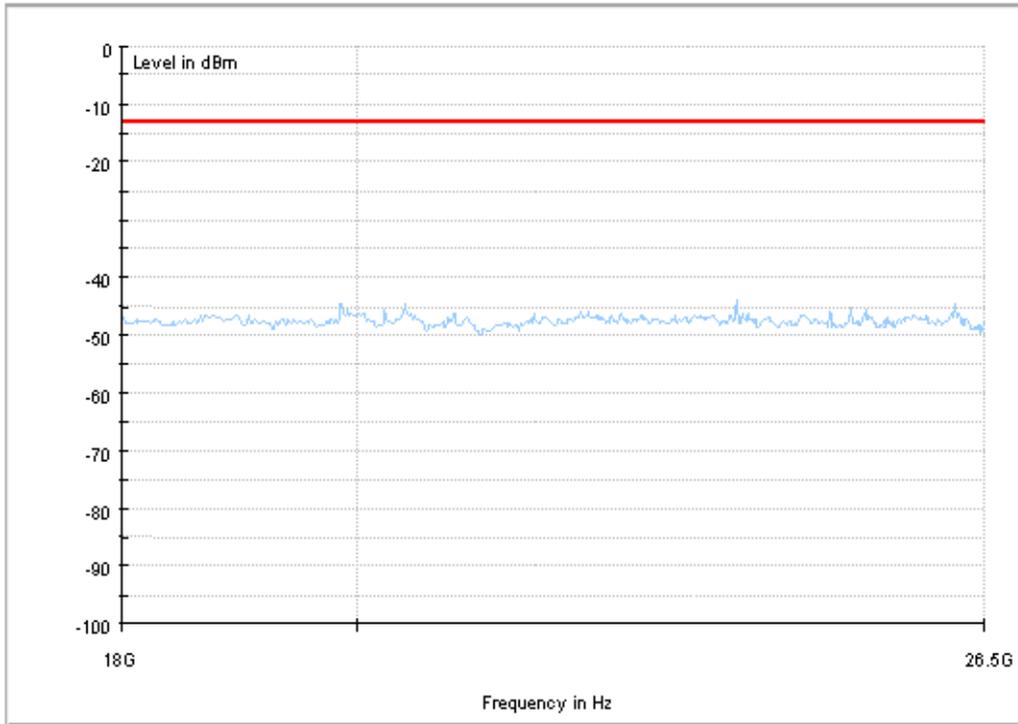


Copy of FCC PART24 WCDMA1900_L



Copy of FCC PART24 WCDMA1900_H





8Appendix_H: Frequency Stability

8.1 For GSM

8.1.1 Frequency 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	9.04	0.01097	PASS
				VN	12.01	0.01457	PASS
				VH	3.94	0.00478	PASS
		MCH	TN	VL	1.36	0.00163	PASS
				VN	13.30	0.0159	PASS
				VH	9.04	0.01081	PASS
		HCH	TN	VL	11.24	0.01324	PASS
				VN	13.82	0.01628	PASS
				VH	12.59	0.01483	PASS
	GSM/TM2	LCH	TN	VL	5.29	0.00642	PASS
				VN	15.27	0.01853	PASS
				VH	15.46	0.01876	PASS
		MCH	TN	VL	11.27	0.01347	PASS
				VN	10.46	0.0125	PASS
				VH	10.49	0.01254	PASS
		HCH	TN	VL	6.23	0.00734	PASS
				VN	10.65	0.01255	PASS
				VH	5.04	0.00594	PASS
GSM1900	GSM/TM1	LCH	TN	VL	24.09	0.01302	PASS
				VN	30.28	0.01637	PASS
				VH	24.34	0.01316	PASS
		MCH	TN	VL	33.77	0.01796	PASS
				VN	32.93	0.01752	PASS
				VH	29.32	0.0156	PASS
		HCH	TN	VL	25.18	0.01318	PASS
				VN	38.42	0.02012	PASS
				VH	32.29	0.01691	PASS
	GSM/TM2	LCH	TN	VL	32.29	0.01745	PASS
				VN	20.70	0.01119	PASS
				VH	8.56	0.00463	PASS
		MCH	TN	VL	17.27	0.00919	PASS
				VN	17.21	0.00915	PASS
				VH			

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VH	24.44	0.013	PASS
		HCH	TN	VL	28.28	0.01481	PASS
				VN	29.77	0.01559	PASS
				VH	16.24	0.0085	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	3.49	0.00423	PASS
				-20	15.43	0.01872	PASS
				-10	5.36	0.0065	PASS
				0	12.20	0.0148	PASS
				10	16.40	0.0199	PASS
				20	10.85	0.01316	PASS
				30	9.17	0.01113	PASS
				40	7.68	0.00932	PASS
		50	9.04	0.01097	PASS		
		MCH	VN	-30	3.75	0.00448	PASS
				-20	3.62	0.00433	PASS
				-10	6.65	0.00795	PASS
				0	6.01	0.00718	PASS
				10	6.52	0.00779	PASS
				20	6.52	0.00779	PASS
				30	11.24	0.01344	PASS
				40	6.59	0.00788	PASS
		50	10.33	0.01235	PASS		
		HCH	VN	-30	5.75	0.00677	PASS
				-20	11.49	0.01354	PASS
				-10	11.56	0.01362	PASS
				0	10.59	0.01248	PASS
				10	10.27	0.0121	PASS
				20	10.14	0.01195	PASS
	30			8.52	0.01004	PASS	
	40			7.17	0.00845	PASS	
	50	7.62	0.00898	PASS			
	GSM/TM2	LCH	VN	-30	10.56	0.01281	PASS
				-20	6.91	0.00838	PASS
				-10	2.62	0.00318	PASS
				0	4.36	0.00529	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	14.08	0.01708	PASS
				20	16.21	0.01967	PASS
				30	4.94	0.00599	PASS
				40	7.30	0.00886	PASS
				50	8.78	0.01065	PASS
		MCH	VN	-30	7.20	0.00861	PASS
				-20	2.87	0.00343	PASS
				-10	5.94	0.0071	PASS
				0	4.49	0.00537	PASS
				10	15.05	0.01799	PASS
				20	5.20	0.00622	PASS
				30	9.69	0.01158	PASS
				40	6.65	0.00795	PASS
				50	14.53	0.01737	PASS
				HCH	VN	-30	12.27
		-20	10.46			0.01232	PASS
		-10	9.65			0.01137	PASS
		0	4.07			0.0048	PASS
		10	9.72			0.01145	PASS
		20	9.49			0.01118	PASS
		30	-1.26			-0.00148	PASS
		40	14.04			0.01654	PASS
		50	2.29	0.0027	PASS		
		GSM1900	GSM/TM1	LCH	VN	-30	17.31
-20	28.48					0.01539	PASS
-10	19.89					0.01075	PASS
0	26.35					0.01424	PASS
10	17.11					0.00925	PASS
20	25.63					0.01385	PASS
30	30.80					0.01665	PASS
40	19.11					0.01033	PASS
50	30.15					0.0163	PASS
MCH	VN			-30	28.93	0.01539	PASS
				-20	20.28	0.01079	PASS
				-10	23.12	0.0123	PASS
				0	30.22	0.01607	PASS
				10	14.72	0.00783	PASS
				20	22.79	0.01212	PASS
				30	27.96	0.01487	PASS
				40	14.98	0.00797	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		HCH	VN	50	20.60	0.01096	PASS
				-30	37.06	0.01941	PASS
				-20	25.18	0.01318	PASS
				-10	30.99	0.01623	PASS
				0	14.85	0.00778	PASS
				10	21.63	0.01133	PASS
				20	25.57	0.01339	PASS
				30	27.25	0.01427	PASS
				40	15.82	0.00828	PASS
				50	36.35	0.01903	PASS
	GSM/TM2	LCH	VN	-30	20.79	0.01124	PASS
				-20	14.56	0.00787	PASS
				-10	19.21	0.01038	PASS
				0	22.31	0.01206	PASS
				10	21.15	0.01143	PASS
				20	18.44	0.00997	PASS
				30	13.92	0.00752	PASS
				40	34.74	0.01878	PASS
				50	17.11	0.00925	PASS
				MCH	VN	-30	3.87
		-20	21.47			0.01142	PASS
		-10	19.44			0.01034	PASS
		0	2.94			0.00156	PASS
		10	15.88			0.00845	PASS
		20	19.69			0.01047	PASS
		30	18.14			0.00965	PASS
		40	19.66			0.01046	PASS
		50	20.60			0.01096	PASS
		HCH	VN			-30	23.18
				-20	25.60	0.0134	PASS
				-10	27.15	0.01422	PASS
				0	23.86	0.01249	PASS
				10	22.47	0.01177	PASS
				20	20.82	0.0109	PASS
				30	12.75	0.00668	PASS
				40	12.82	0.00671	PASS
				50	23.12	0.01211	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	3.43	0.00415	PASS
				VN	1.31	0.00159	PASS
				VH	-3.40	-0.00411	PASS
		MCH	TN	VL	-0.99	-0.00118	PASS
				VN	2.47	0.00295	PASS
				VH	-2.06	-0.00246	PASS
		HCH	TN	VL	0.46	0.00054	PASS
				VN	-1.30	-0.00154	PASS
				VH	3.81	0.0045	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	6.36	0.00343	PASS
				VN	13.78	0.00744	PASS
				VH	2.37	0.00128	PASS
		MCH	TN	VL	-14.86	-0.0079	PASS
				VN	10.74	0.00571	PASS
				VH	7.05	0.00375	PASS
		HCH	TN	VL	2.27	0.00119	PASS
				VN	2.29	0.0012	PASS
				VH	-0.26	-0.00014	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	-1.89	-0.00229	PASS
				-20	-5.48	-0.00663	PASS
				-10	-3.78	-0.00457	PASS
				0	3.46	0.00419	PASS
				10	-2.04	-0.00247	PASS
				20	1.05	0.00127	PASS
				30	3.95	0.00478	PASS
				40	3.57	0.00432	PASS
				50	0.79	0.00096	PASS
		MCH	VN	-30	3.36	0.00402	PASS
				-20	0.58	0.00069	PASS
				-10	-0.38	-0.00045	PASS
				0	-0.12	-0.00014	PASS
				10	4.68	0.0056	PASS
				20	-1.57	-0.00188	PASS
				30	4.46	0.00533	PASS
				40	0.41	0.00049	PASS
				50	2.75	0.00329	PASS
		HCH	VN	-30	-2.88	-0.0034	PASS
				-20	0.50	0.00059	PASS
				-10	4.44	0.00524	PASS
				0	0.96	0.00113	PASS
				10	7.08	0.00836	PASS
				20	-2.21	-0.00261	PASS
				30	-2.56	-0.00302	PASS
				40	1.33	0.00157	PASS
				50	3.17	0.00374	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	2.70	0.00146	PASS
				-20	12.50	0.00675	PASS
				-10	1.16	0.00063	PASS
				0	12.71	0.00686	PASS
				10	4.76	0.00257	PASS
				20	-10.76	-0.00581	PASS
				30	-6.55	-0.00354	PASS
				40	4.44	0.0024	PASS
				50	1.80	0.00097	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	VN	-30	-0.60	-0.00032	PASS
				-20	9.31	0.00495	PASS
				-10	8.73	0.00464	PASS
				0	12.91	0.00687	PASS
				10	5.52	0.00294	PASS
				20	2.82	0.0015	PASS
				30	-1.57	-0.00084	PASS
				40	-3.19	-0.0017	PASS
				50	1.62	0.00086	PASS
		HCH	VN	-30	-0.84	-0.00044	PASS
				-20	11.80	0.00619	PASS
				-10	8.30	0.00435	PASS
				0	4.61	0.00242	PASS
				10	-2.32	-0.00122	PASS
				20	5.91	0.0031	PASS
				30	-1.34	-0.0007	PASS
				40	2.72	0.00143	PASS
				50	10.30	0.0054	PASS

END