



# Appendix for test report



## 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	33.44	29.35	38.5	PASS
		MCH	33.78	29.91	38.5	PASS
		HCH	33.67	29.66	38.5	PASS
	GSM/TM2	LCH	27.06	23.18	38.5	PASS
		MCH	27.05	23.17	38.5	PASS
		HCH	27.16	23.02	38.5	PASS
WCDMA850	UMTS/TM1	LCH	24.17	19.38	38.5	PASS
		MCH	24.14	19.26	38.5	PASS
		HCH	24.12	19.05	38.5	PASS

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.88	30.21	33	PASS
		MCH	29.76	30.21	33	PASS



Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
	GSM/TM2	HCH	29.7	29.97	33	PASS
		LCH	26.68	26.89	33	PASS
		MCH	27.05	27.39	33	PASS
		HCH	27.16	27.63	33	PASS
WCDMA1900	UMTS/TM1	LCH	23.71	24.20	33	PASS
		MCH	23.68	24.20	33	PASS
		HCH	23.71	24.43	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:

$$\text{SET Span} = 1.5 * \text{OBW}$$

$$\text{SET RBW} = 1\% \text{ of the OBW, not to exceed 1MHz}$$

$$\text{SET VBW} \geq 3 * \text{RBW}$$

SET Sweep time = auto - couple.

Detector: RMS



## 2Appendix\_B: Peak-to-Average Ratio

### Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM850	GSM/TM1	LCH	0.27	13	PASS
		MCH	0.28	13	PASS
		HCH	0.25	13	PASS
	GSM/TM2	LCH	3.21	13	PASS
		MCH	3.22	13	PASS
		HCH	3.19	13	PASS
GSM1900	GSM/TM1	LCH	0.34	13	PASS
		MCH	0.31	13	PASS
		HCH	0.27	13	PASS
	GSM/TM2	LCH	3.25	13	PASS
		MCH	3.15	13	PASS
		HCH	2.97	13	PASS
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA850	UMTS/TM1	LCH	3	13	PASS
		MCH	3.23	13	PASS
		HCH	3.33	13	PASS
WCDMA1900	UMTS/TM1	LCH	2.92	13	PASS
		MCH	3.11	13	PASS
		HCH	3.17	13	PASS

### 3Appendix\_C: Modulation Characteristics

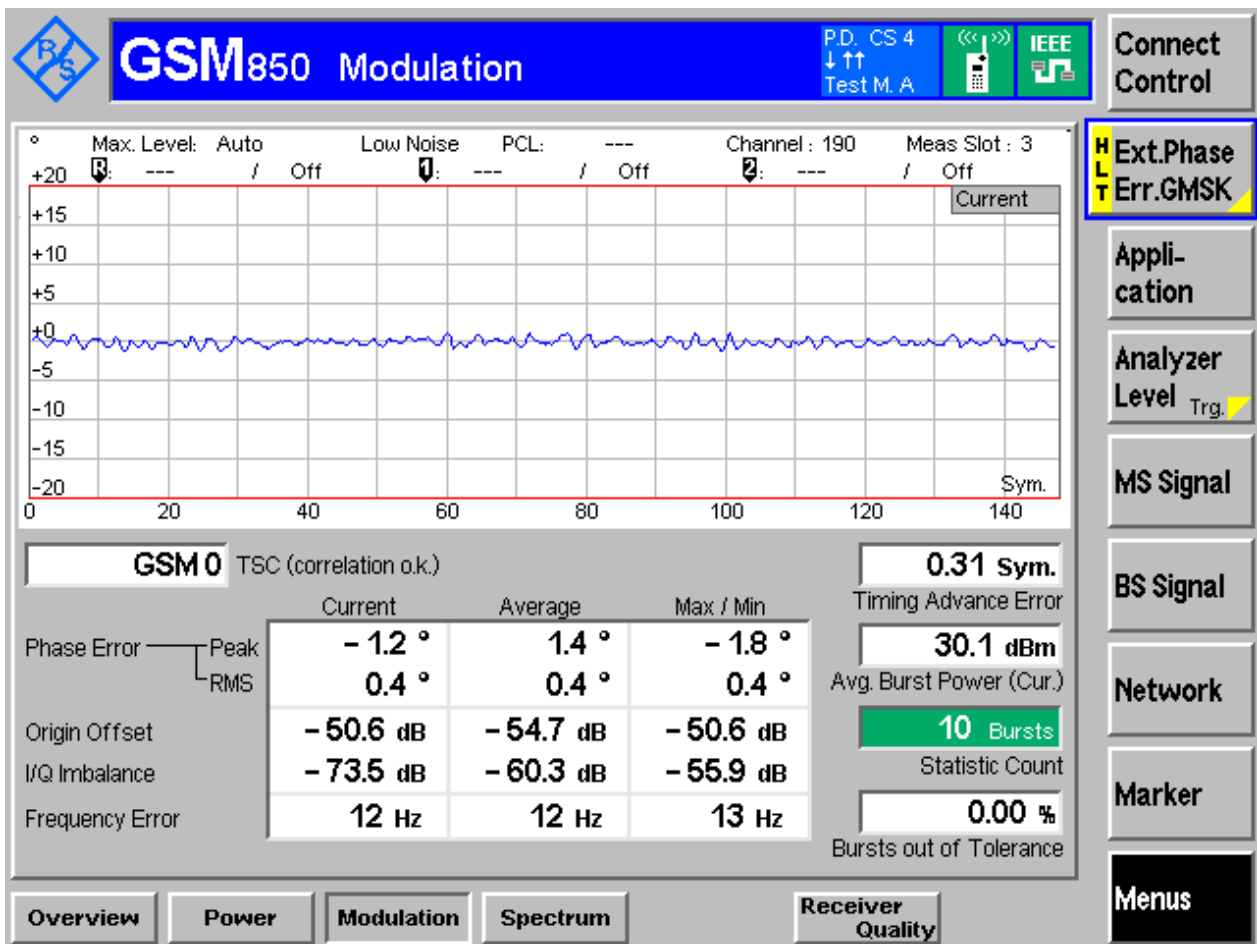
#### Part I - Test Plots

#### 3.1 For GSM

#### 3.1.1 Test Band = GSM850

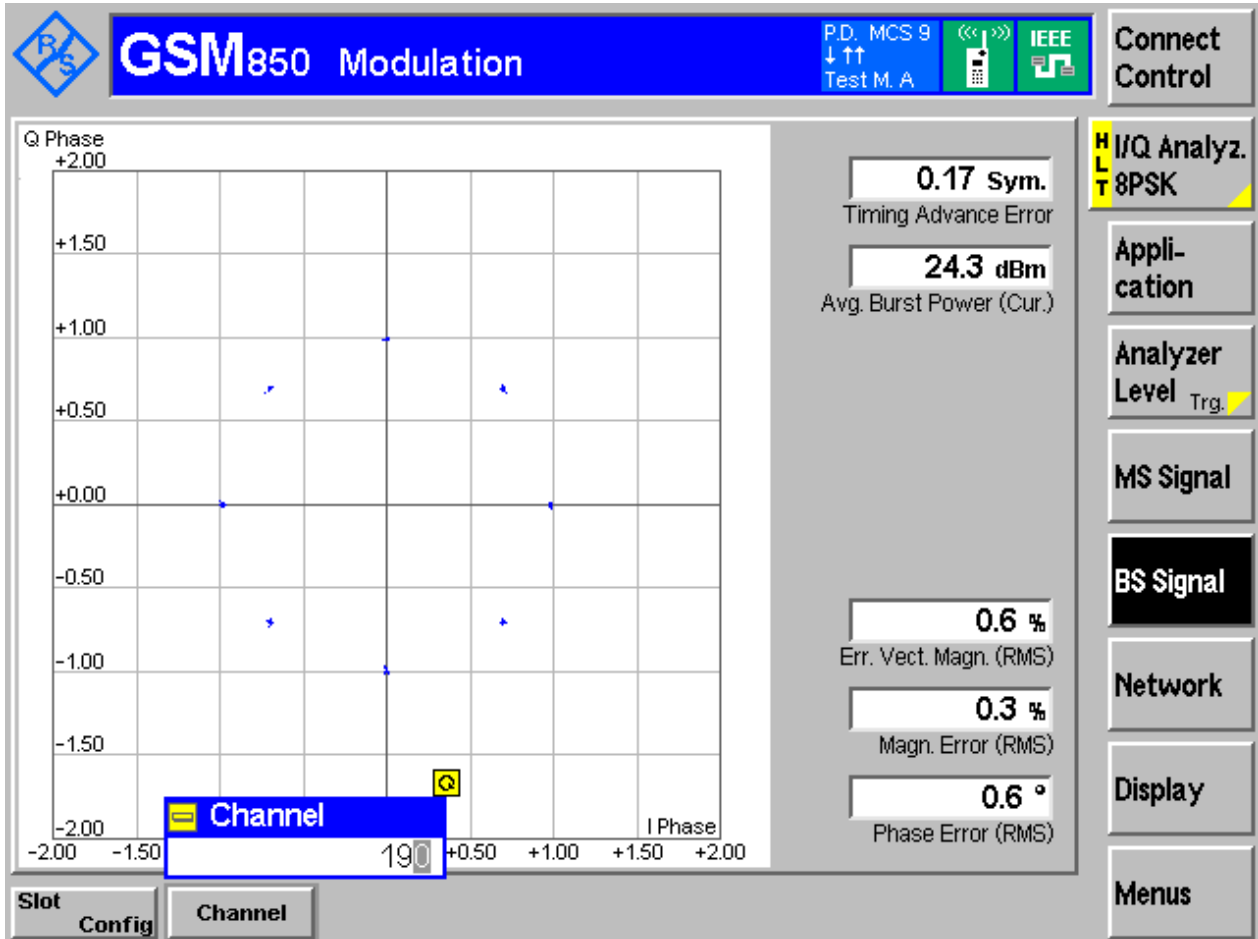
#### 3.1.1.1 Test Mode = GSM/TM1

#### 3.1.1.1.1 Test Channel = MCH



### 3.1.1.2 Test Mode = GSM/TM2

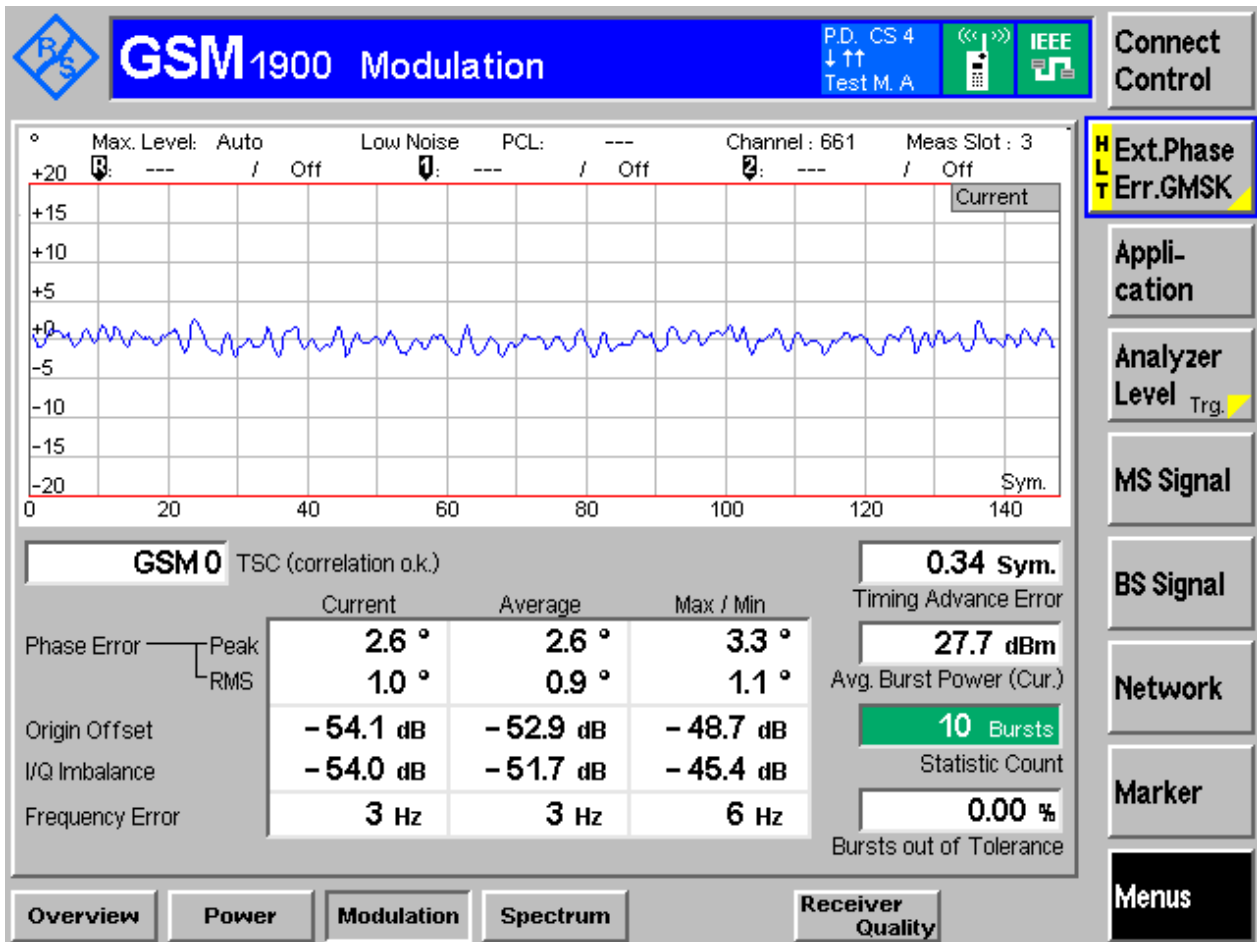
#### 3.1.1.2.1 Test Channel = MCH



3.1.2 Test Band = GSM1900

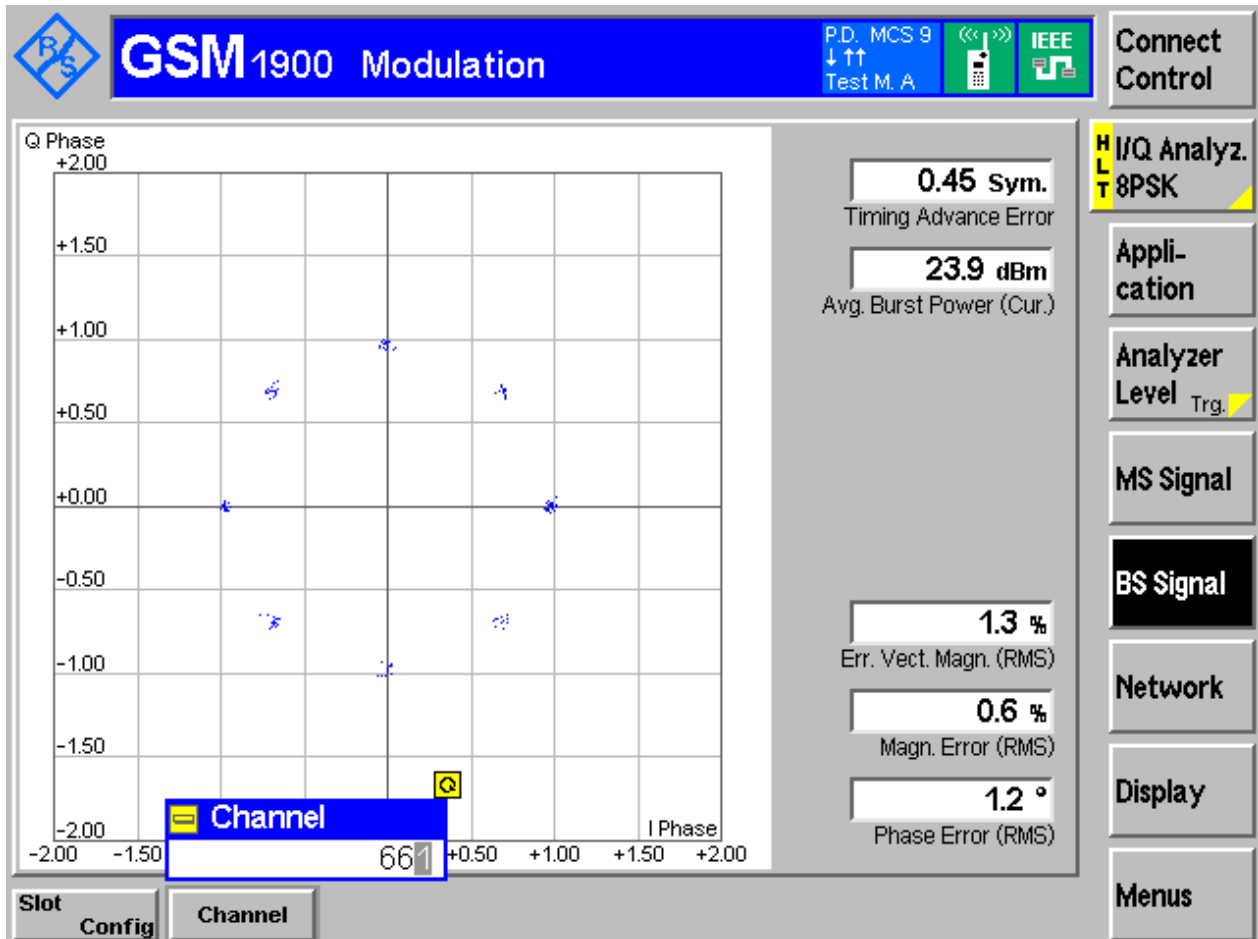
3.1.2.1 Test Mode = GSM/TM1

3.1.2.1.1 Test Channel = MCH



### 3.1.2.2 Test Mode = GSM/TM2

#### 3.1.2.2.1 Test Channel = MCH



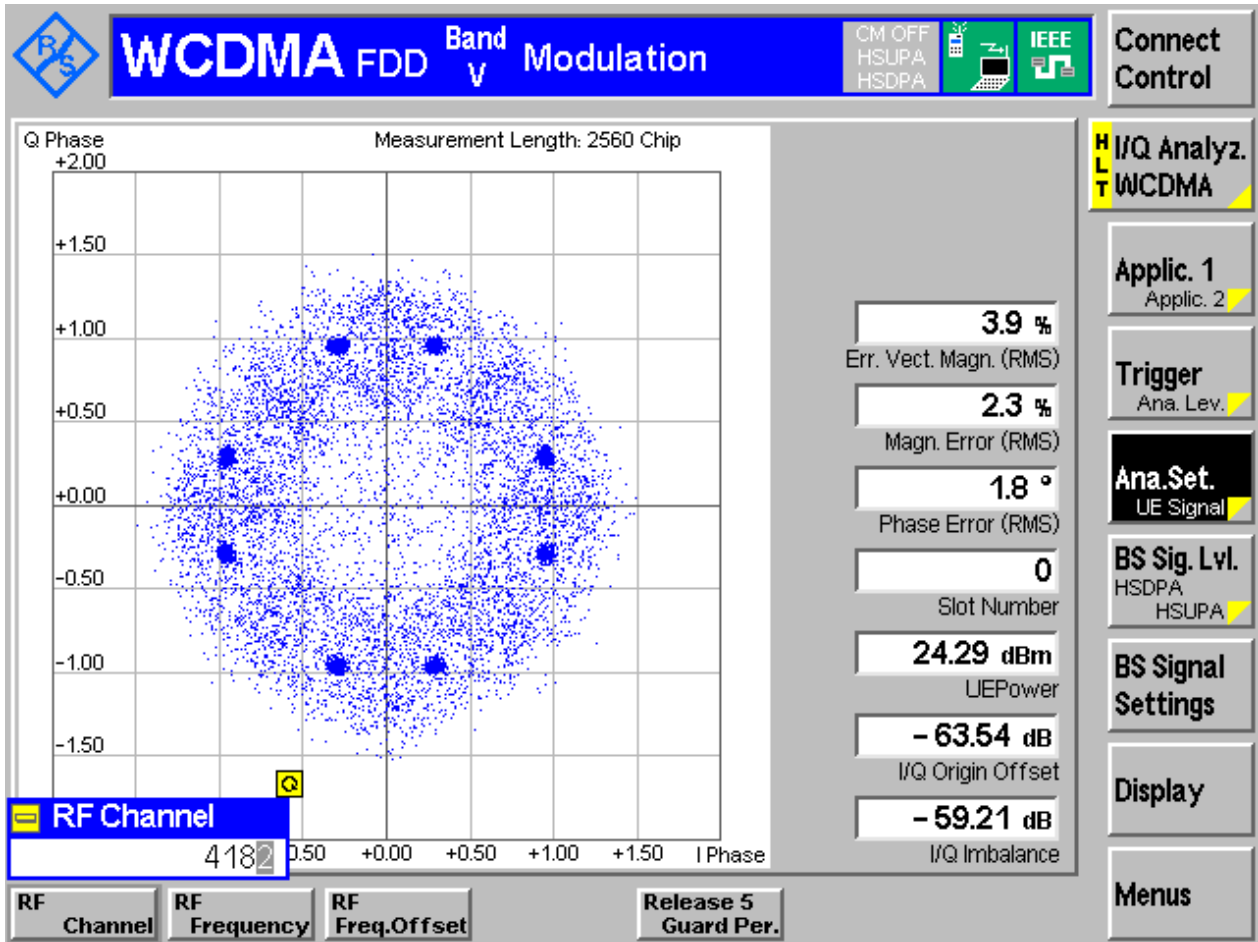


### 3.2 For UMTS

#### 3.2.1 Test Band = WCDMA850

##### 3.2.1.1 Test Mode = UMTS/TM1

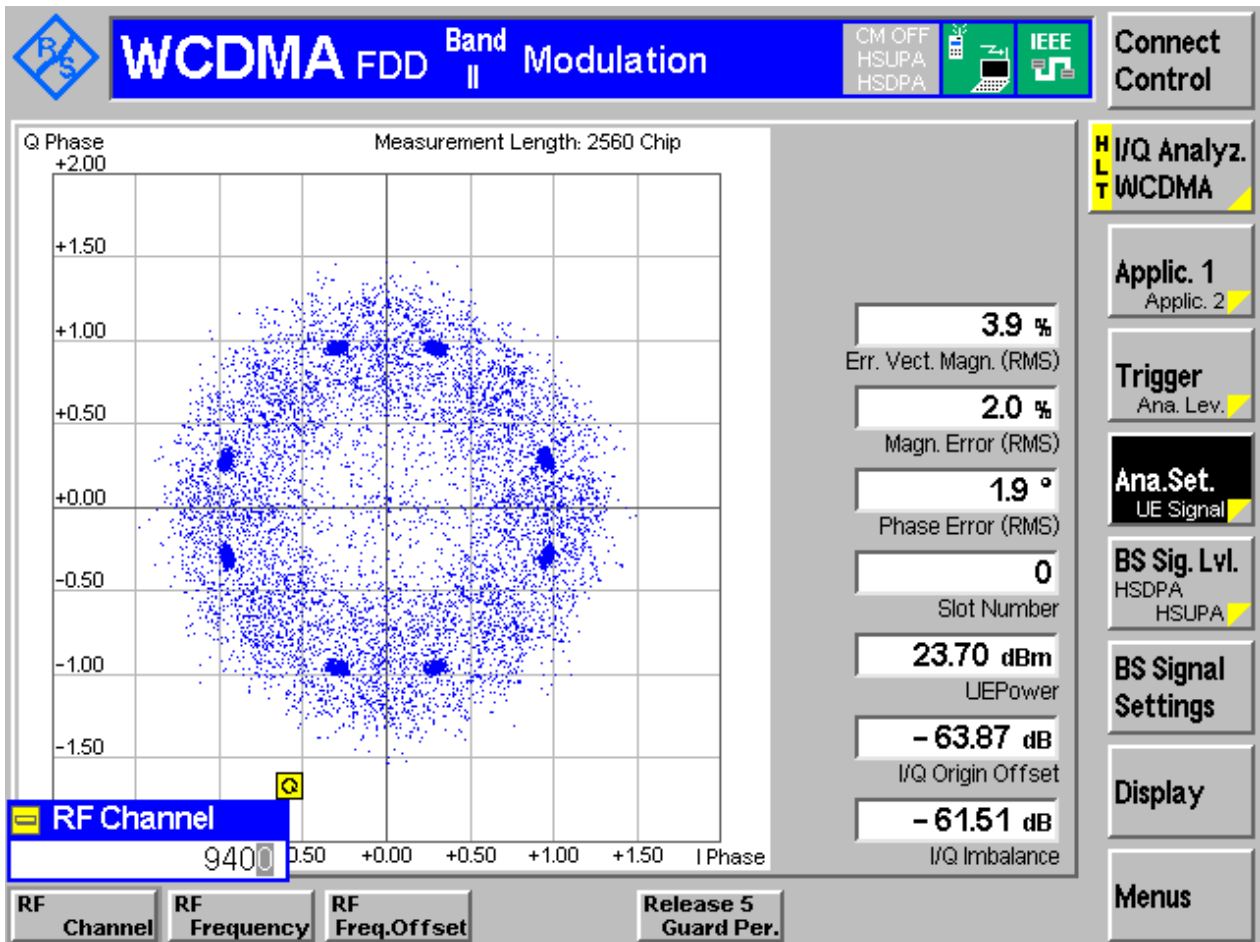
##### 3.2.1.1.1 Test Channel = MCH



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	245.24	320.45	Pass
		MCH	243.12	317.49	Pass
		HCH	245.52	322.07	Pass
	GSM/TM2	LCH	244.05	306.77	Pass
		MCH	247.25	310.55	Pass
		HCH	241.71	307.73	Pass
GSM1900	GSM/TM1	LCH	248.09	317.82	Pass
		MCH	245.25	317.15	Pass
		HCH	246.15	318.10	Pass
	GSM/TM2	LCH	248.21	308.68	Pass
		MCH	248.08	312.70	Pass
		HCH	243.04	305.26	Pass
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA850	UMTS/TM1	LCH	4.13	4.72	Pass
		MCH	4.11	4.70	Pass
		HCH	4.11	4.69	Pass
WCDMA1900	UMTS/TM1	LCH	4.13	4.74	Pass
		MCH	4.12	4.71	Pass
		HCH	4.12	4.71	Pass



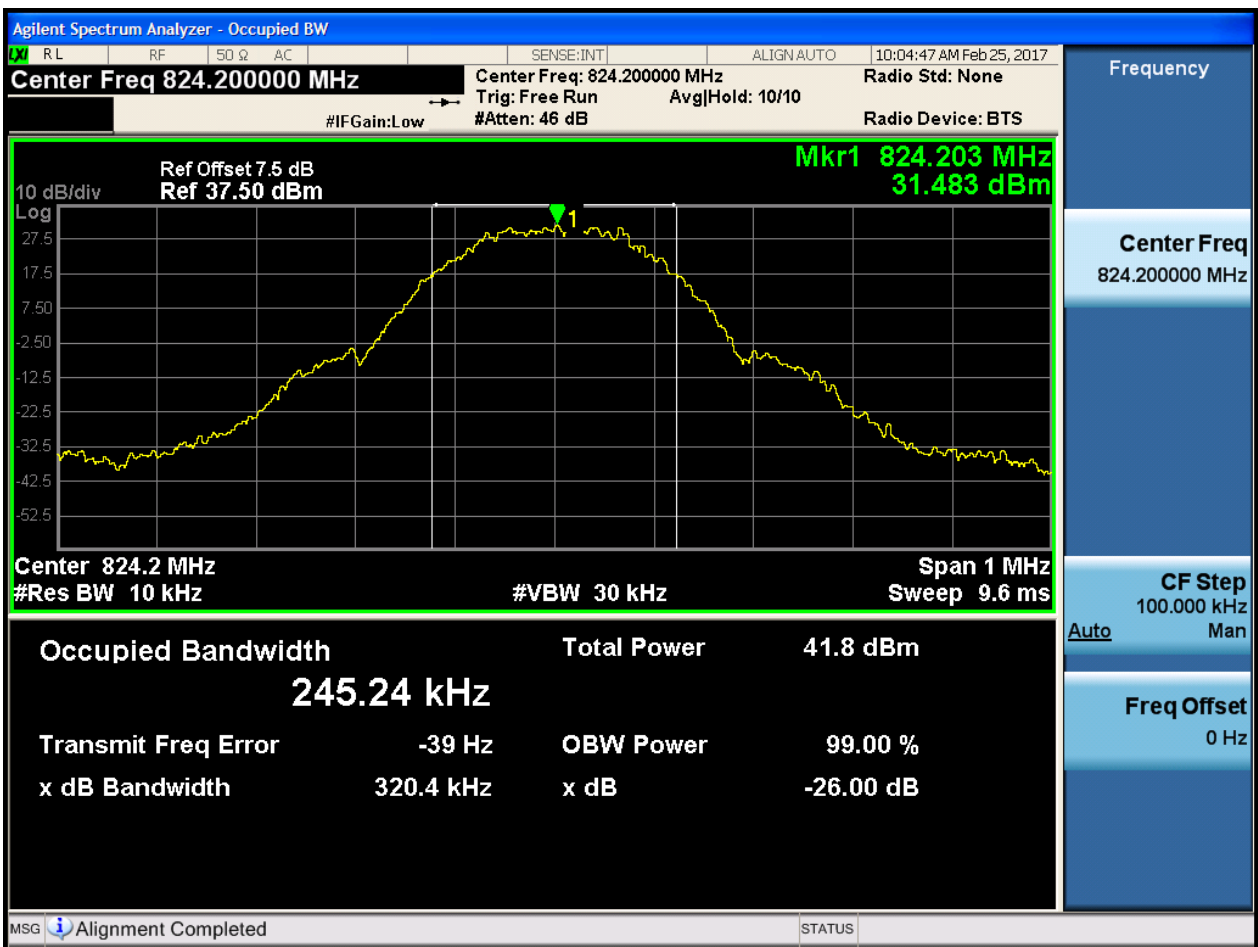
Part II - Test Plots

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



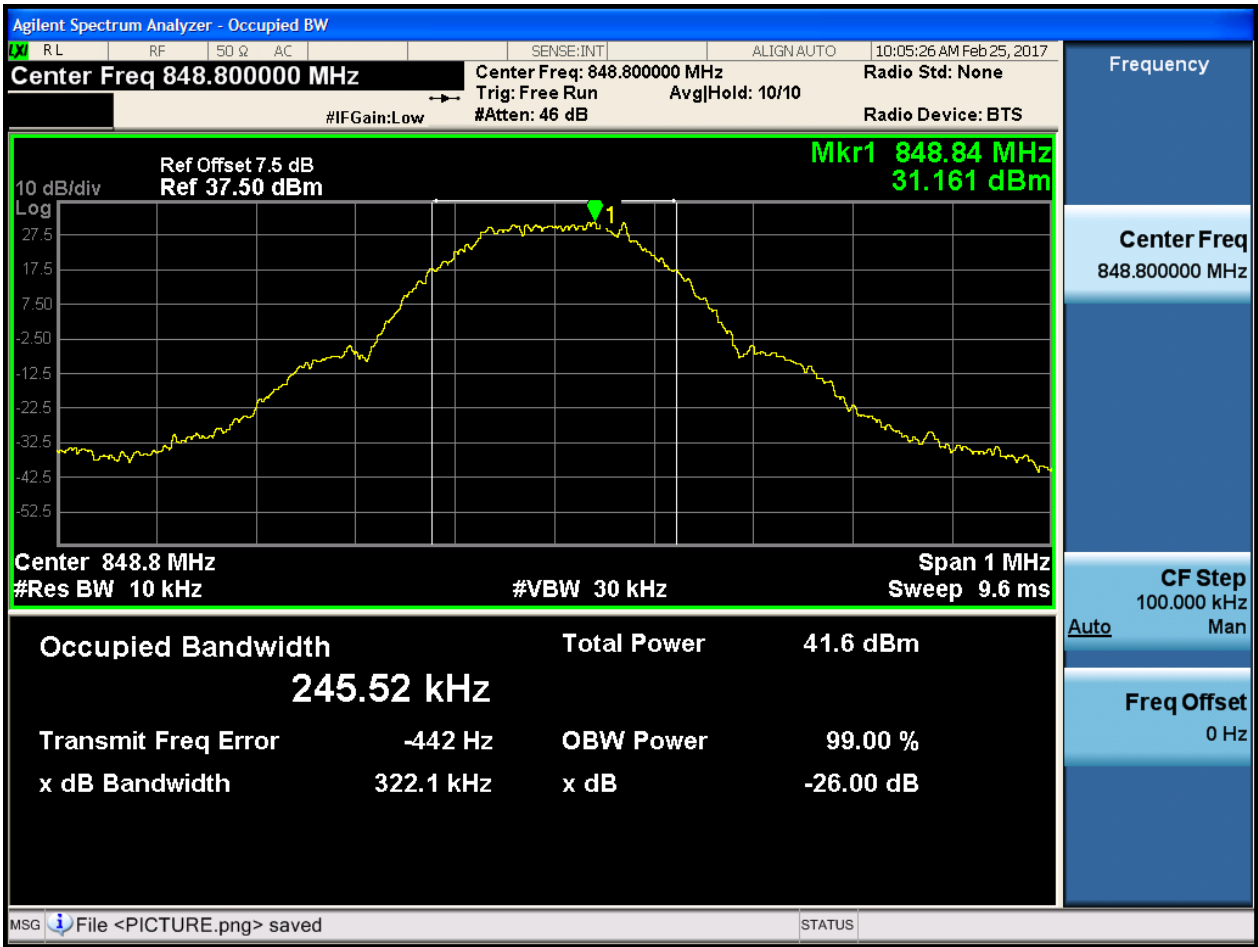


4.1.1.1.2 Test Channel = MCH





4.1.1.1.3 Test Channel = HCH



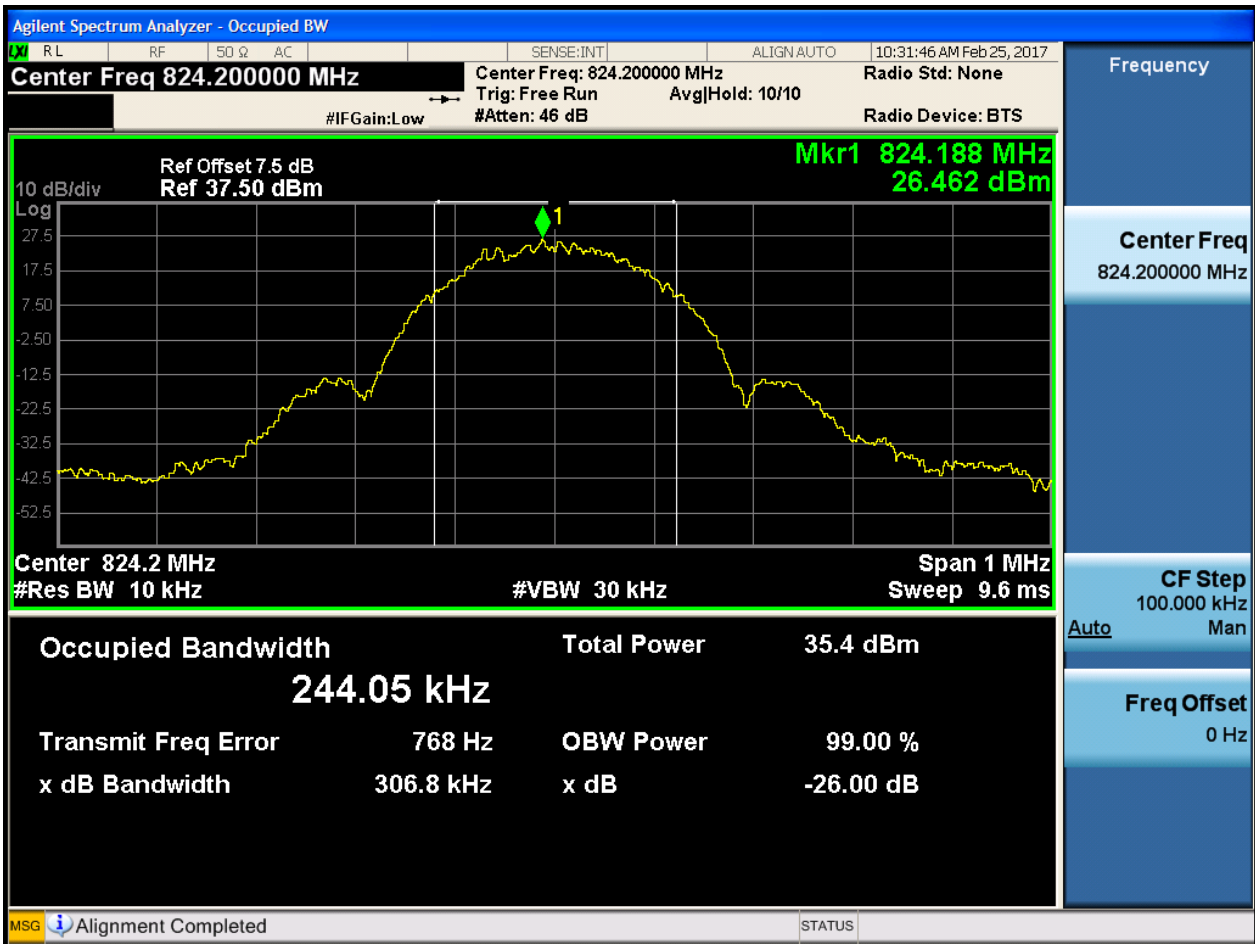


4.1.1.2 Test Mode = GSM/TM2

4.1.1.2.1 Test Channel =

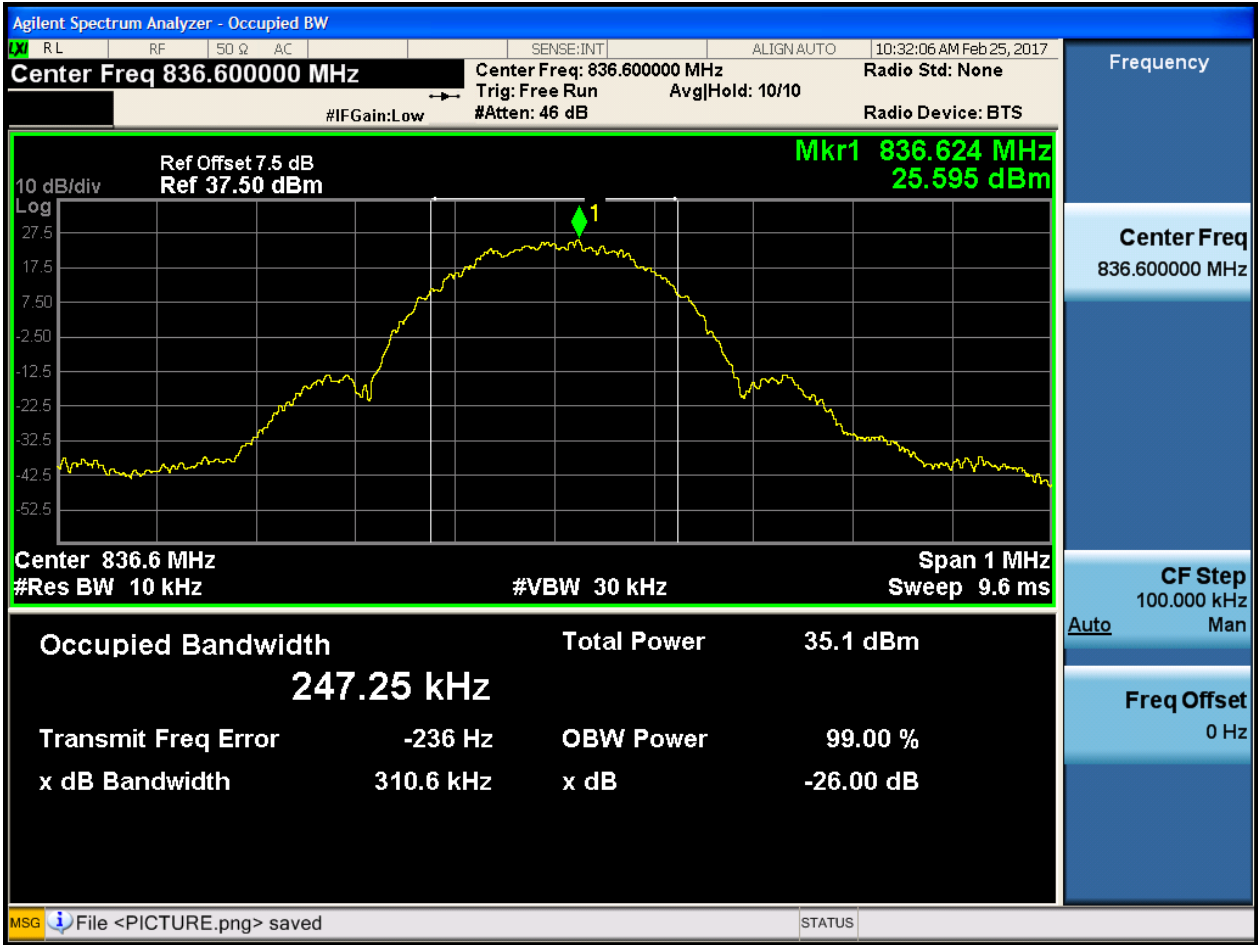
4.1.1.3 Test Mode = GSM/TM2

4.1.1.3.1 Test Channel = LCH





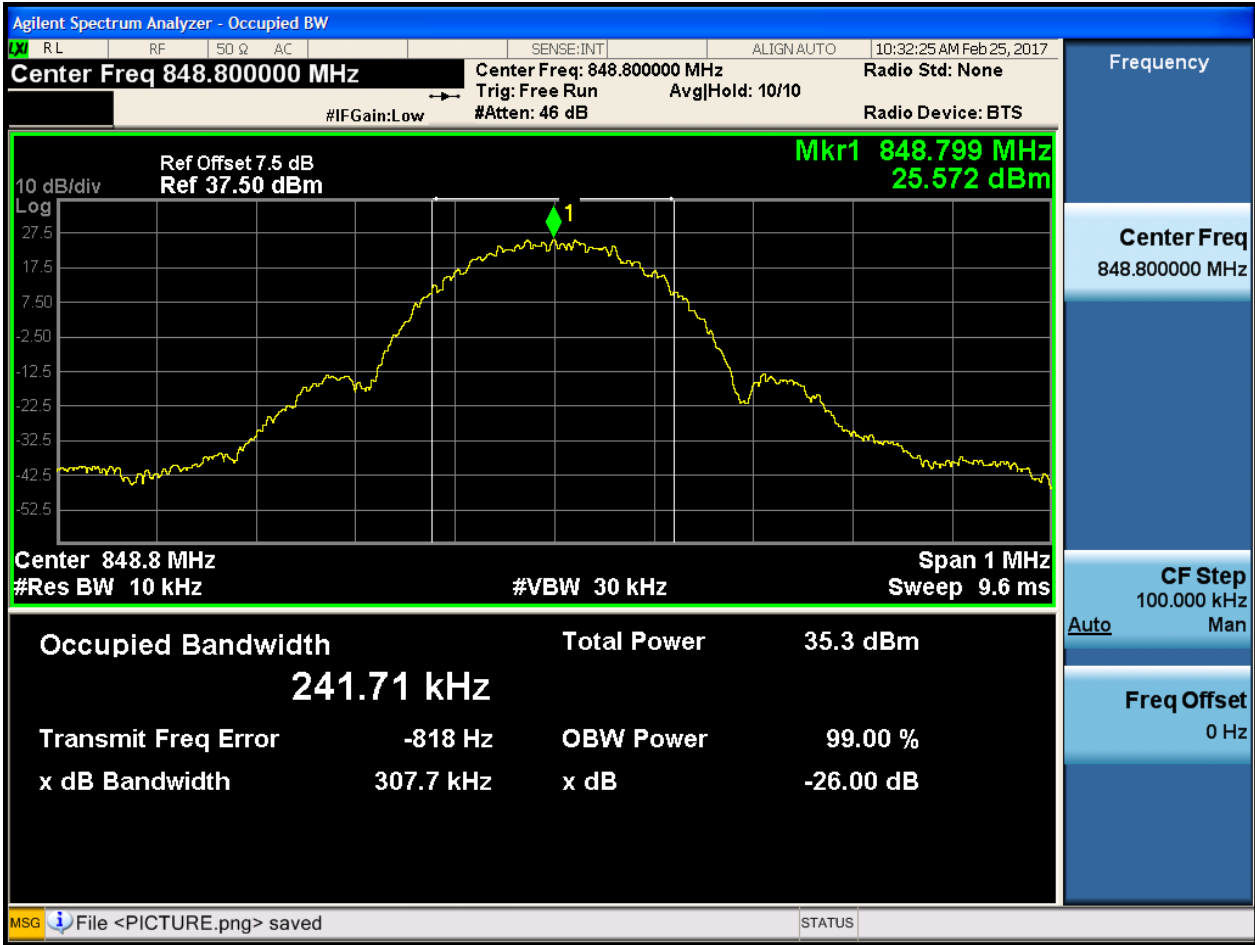
4.1.1.3.2 Test Channel = MCH







4.1.1.3.3 Test Channel = HCH

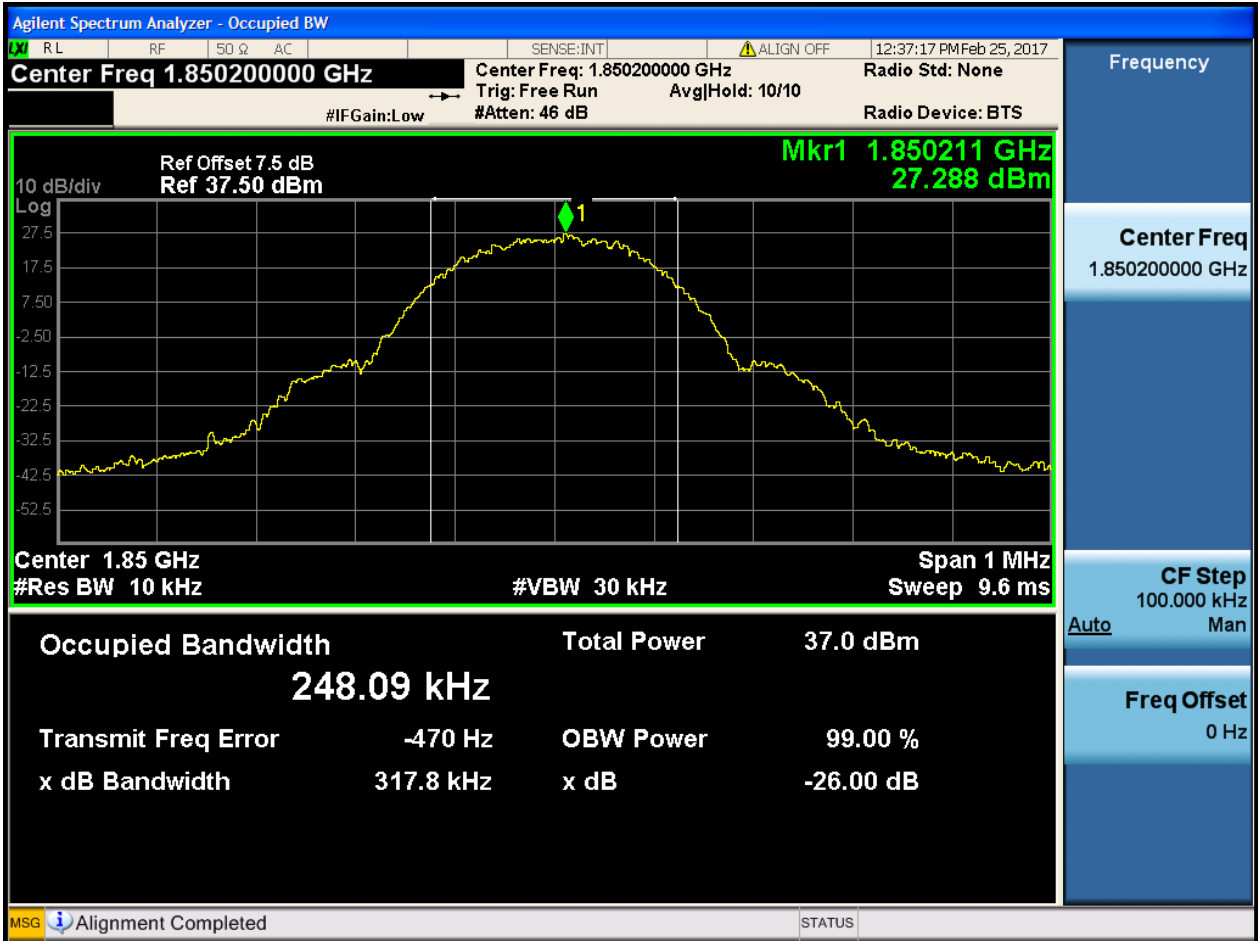




4.1.2 Test Band = GSM1900

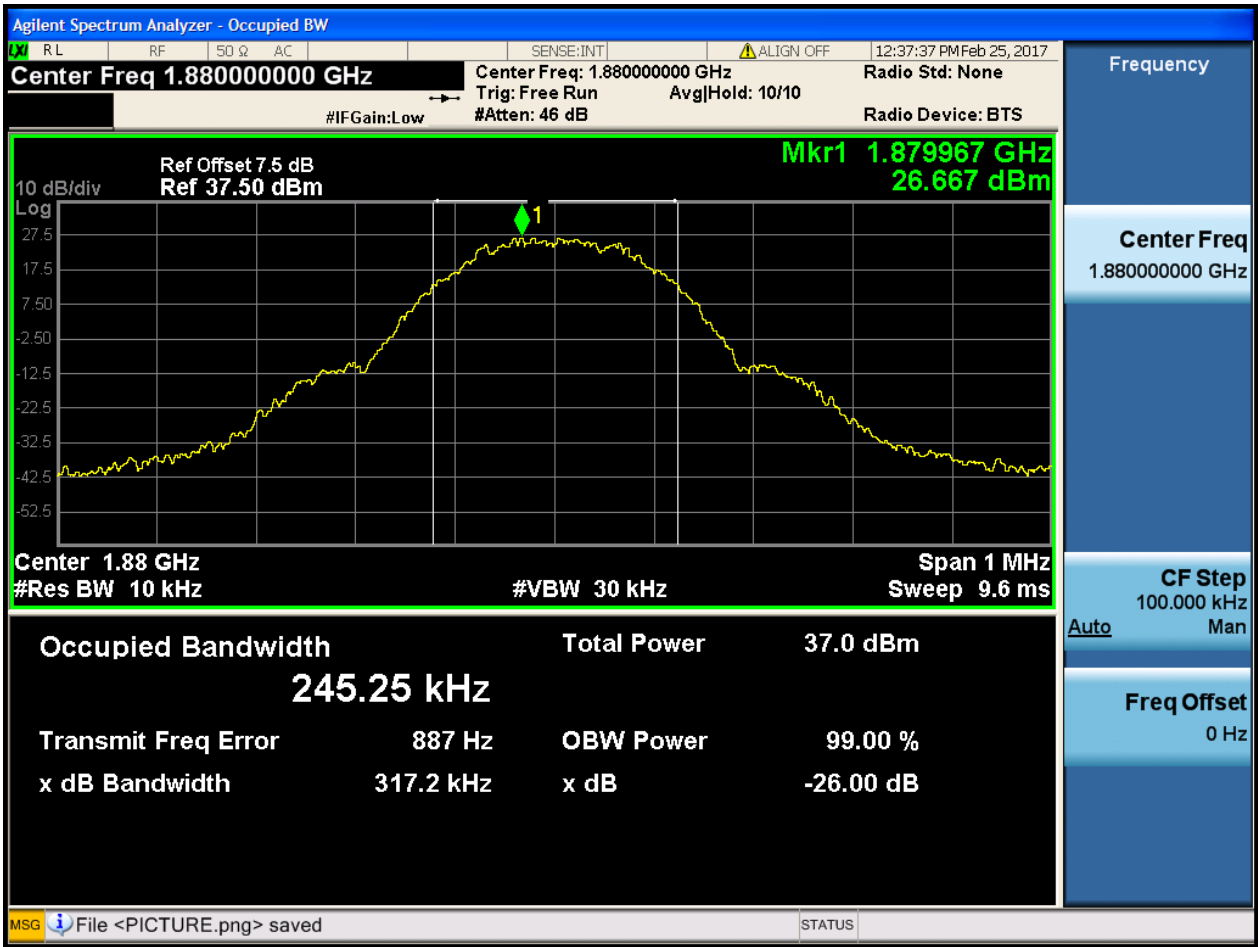
4.1.2.1 Test Mode = GSM/TM1

4.1.2.1.1 Test Channel = LCH



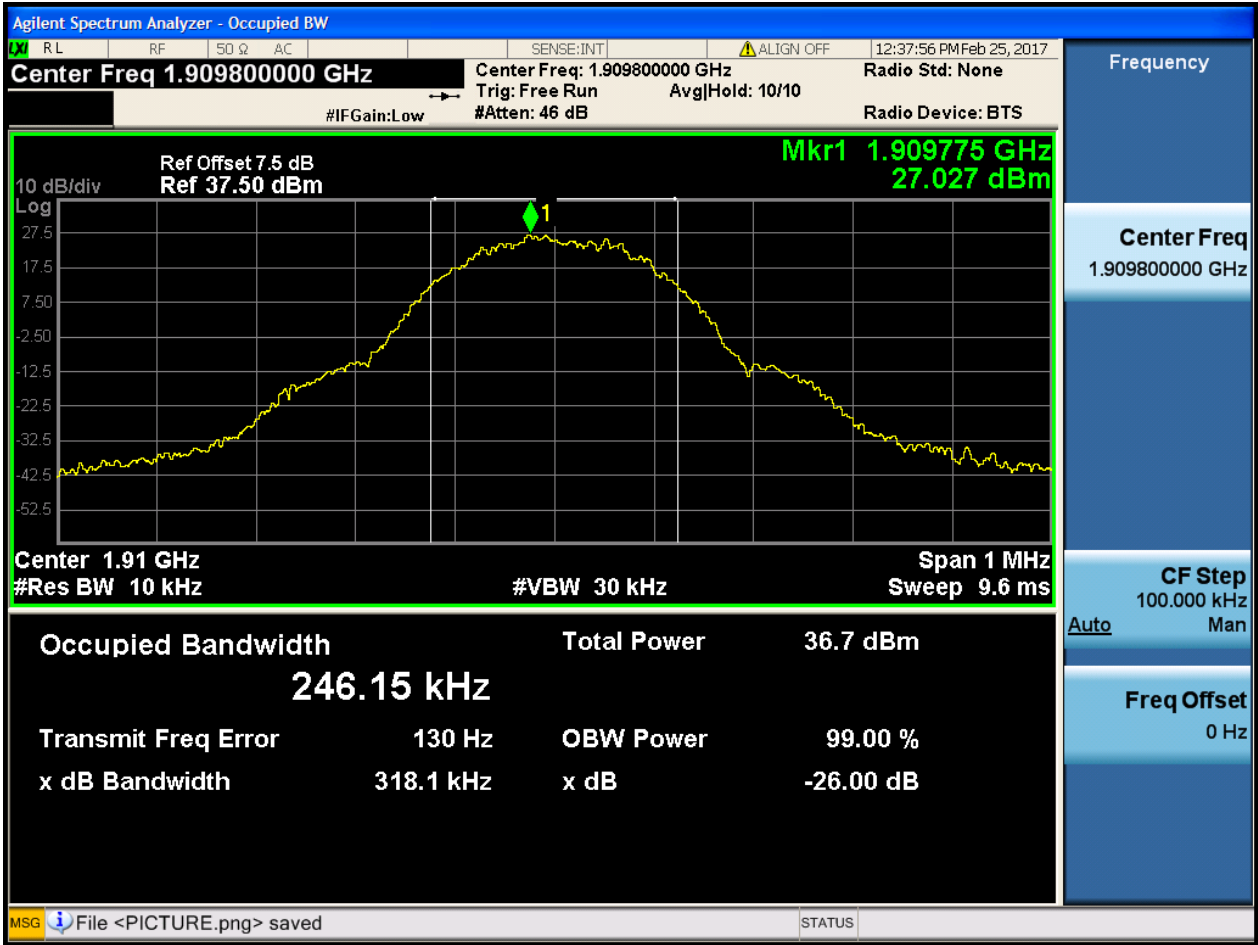


4.1.2.1.2 Test Channel = MCH





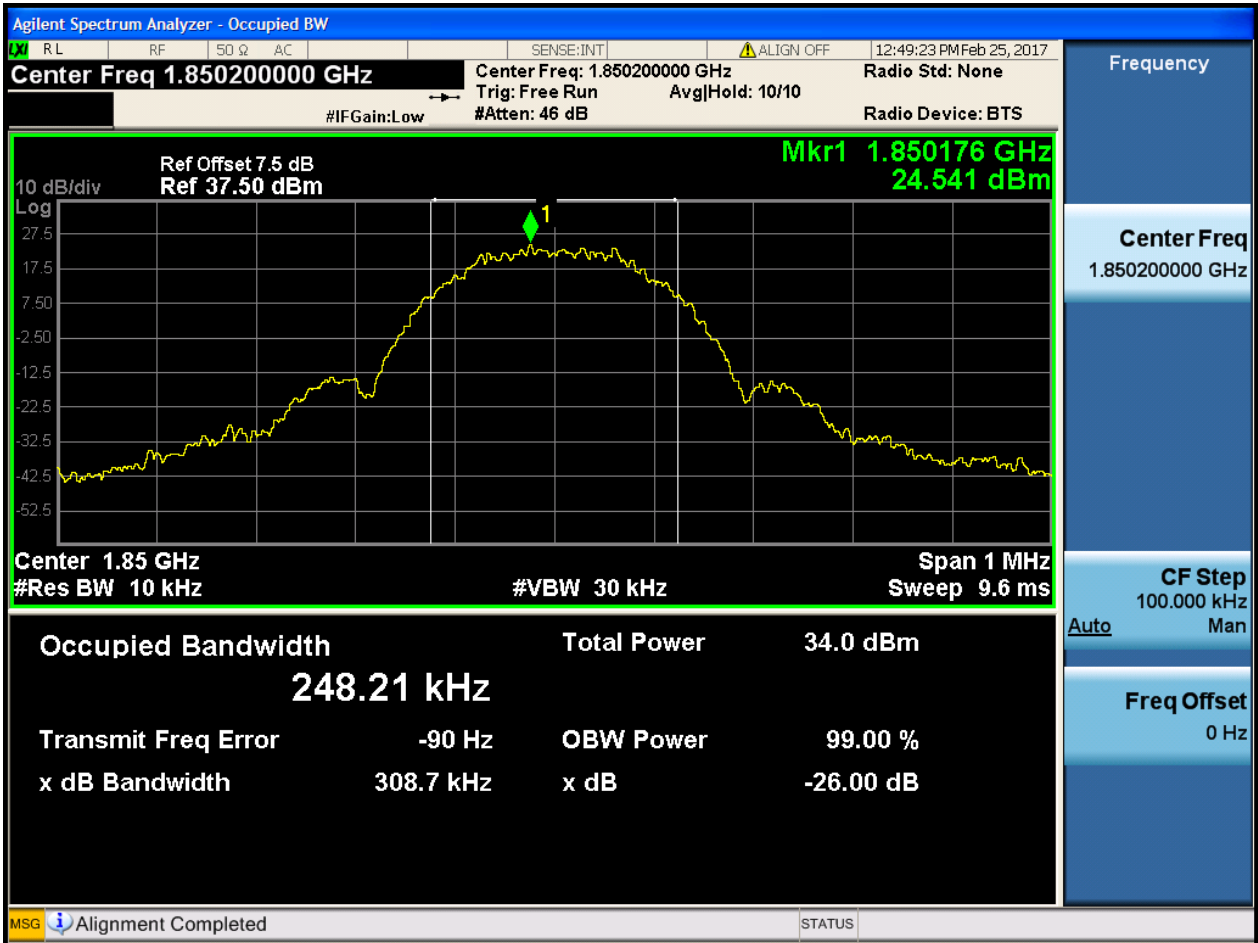
4.1.2.1.3 Test Channel = HCH





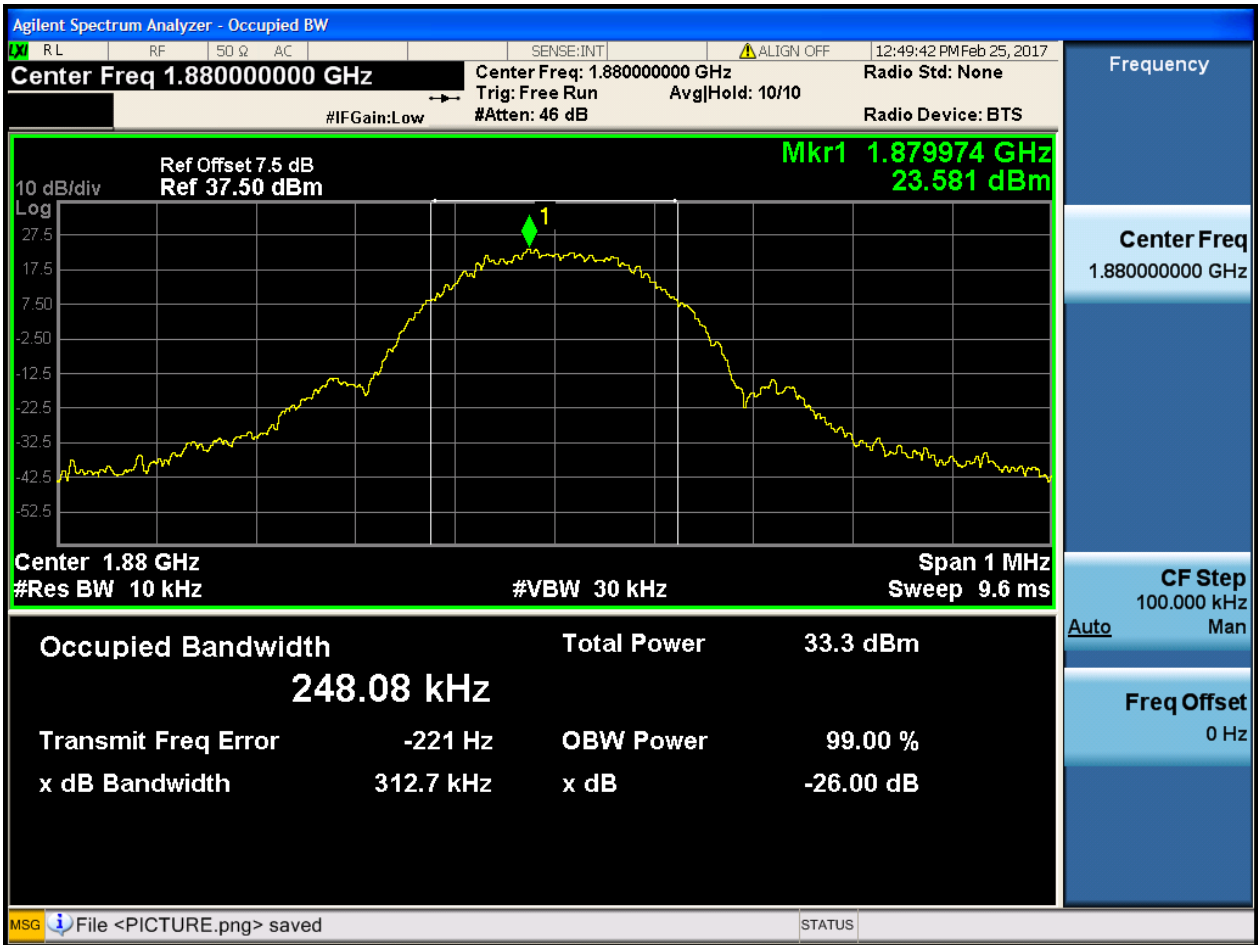
4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH



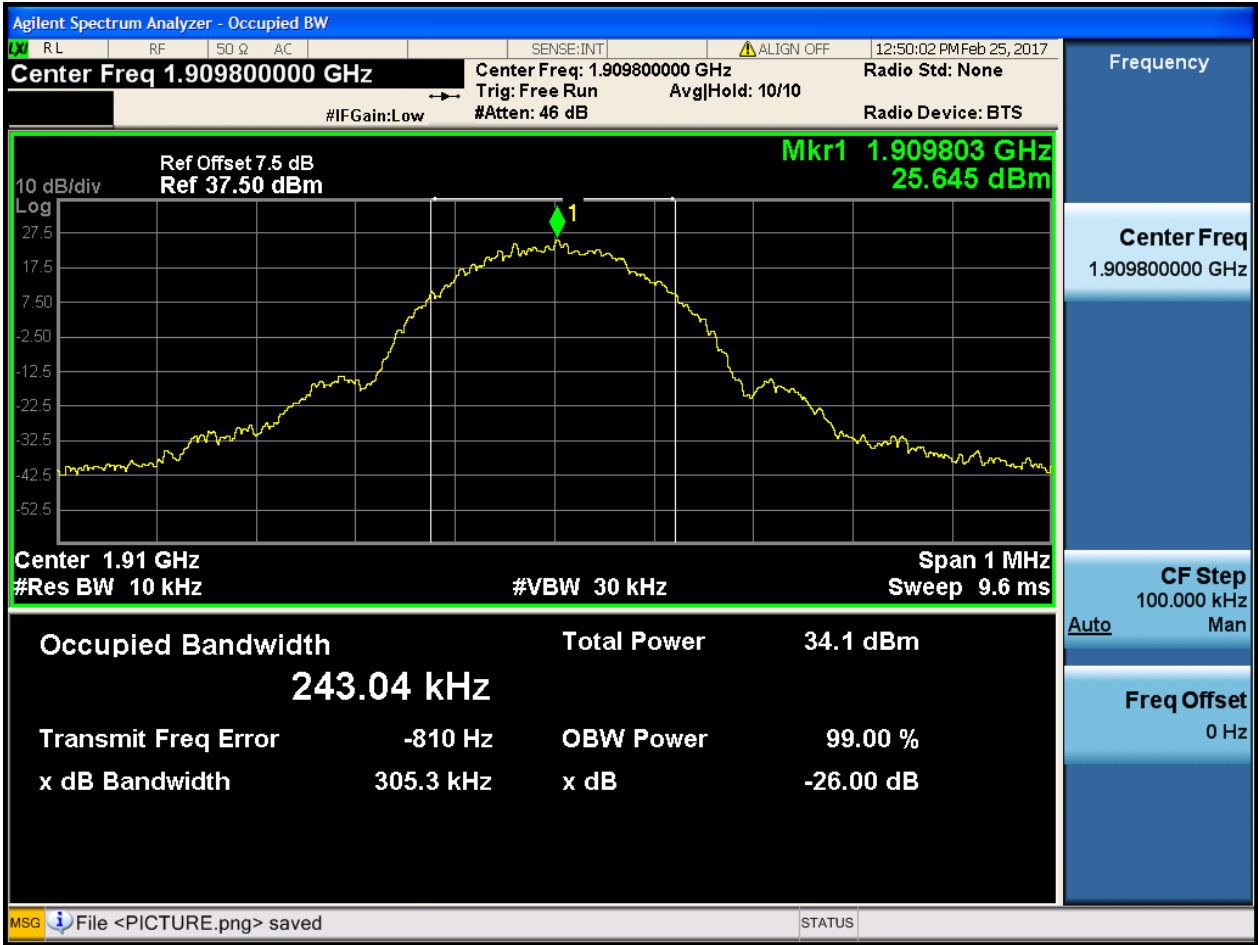


4.1.2.2.2 Test Channel = MCH





4.1.2.2.3 Test Channel = HCH



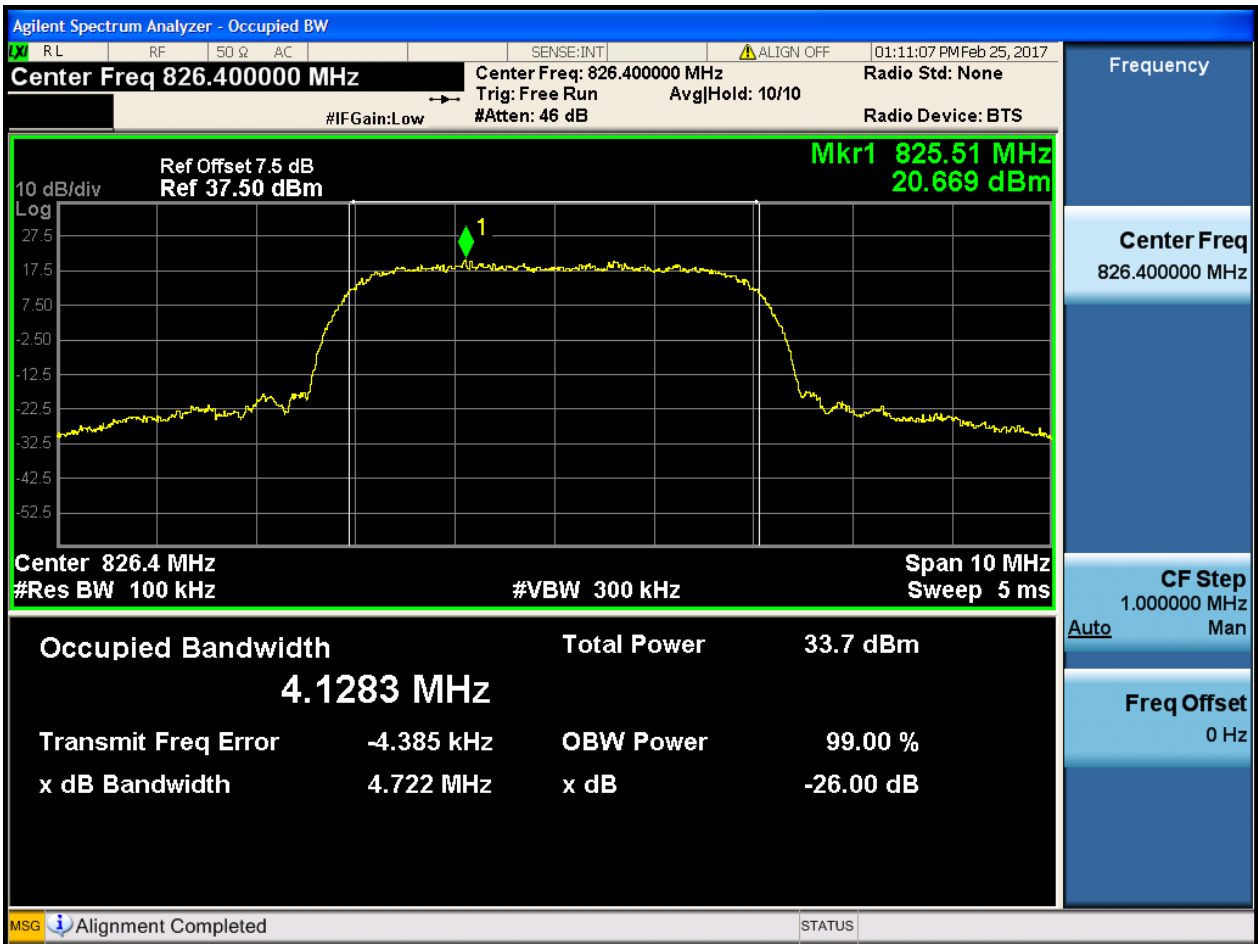


## 4.2 For UMTS

### 4.2.1 Test Band = WCDMA850

#### 4.2.1.1 Test Mode = UMTS/TM1

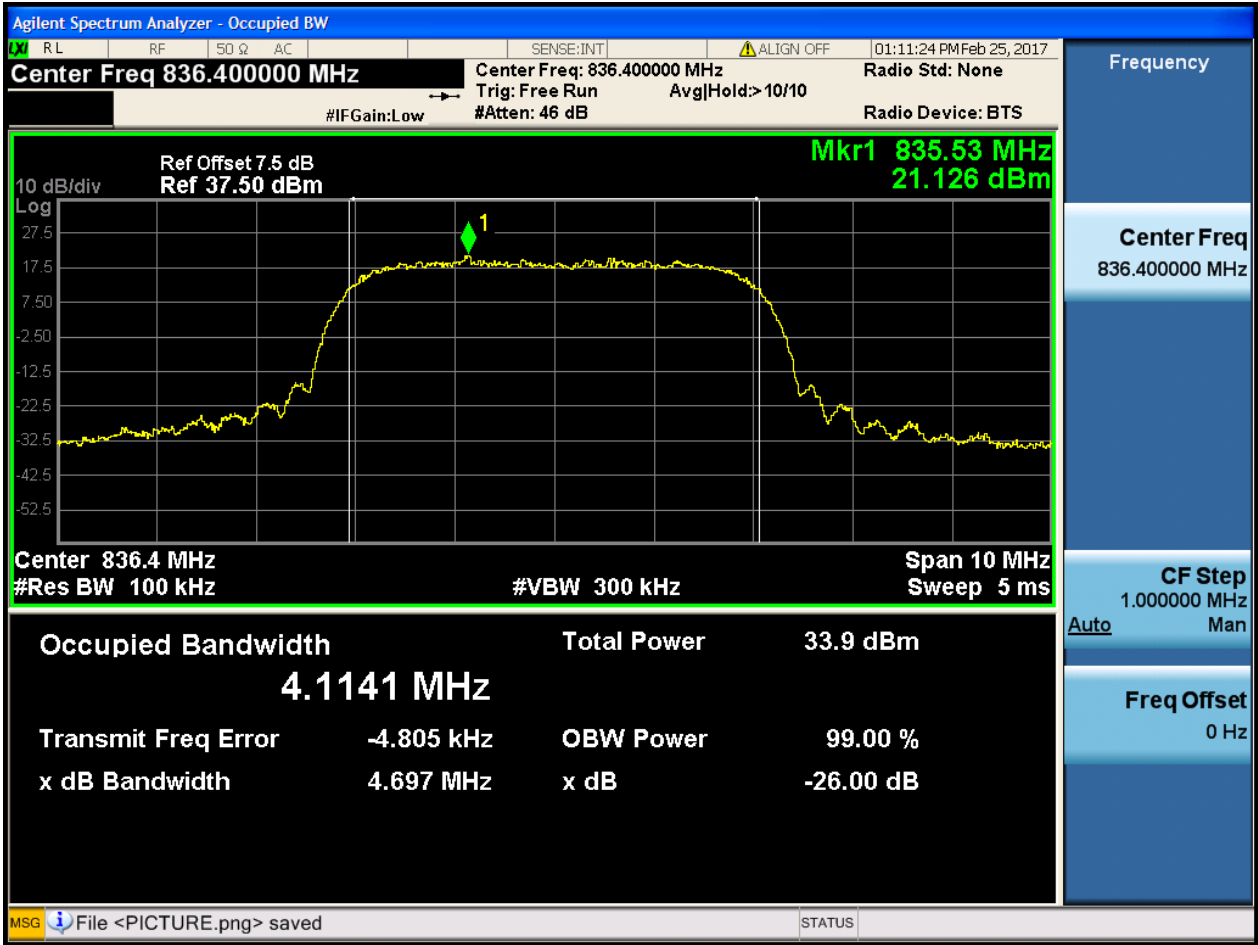
##### 4.2.1.1.1 Test Channel = LCH





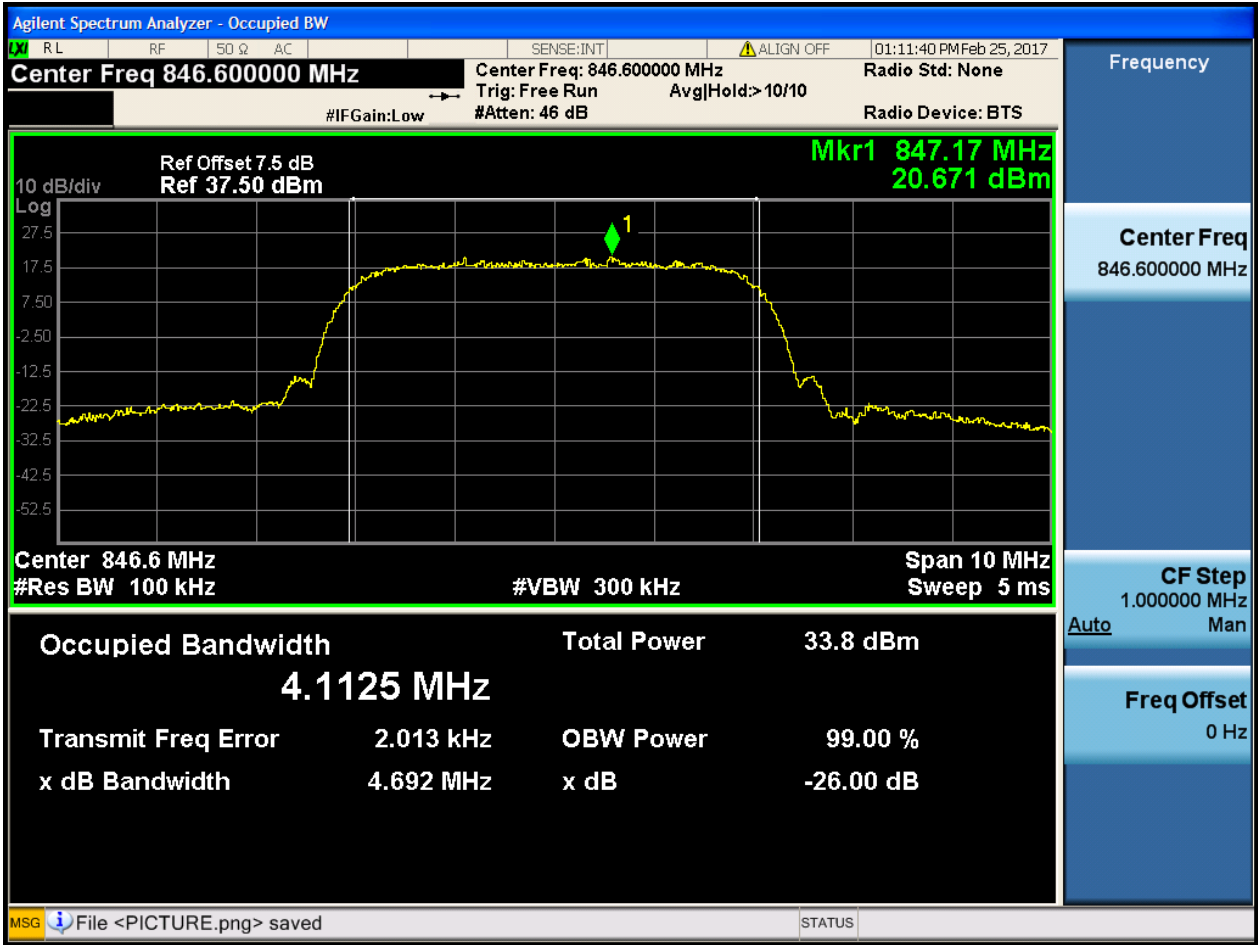


4.2.1.1.2 Test Channel = MCH





4.2.1.1.3 Test Channel = HCH

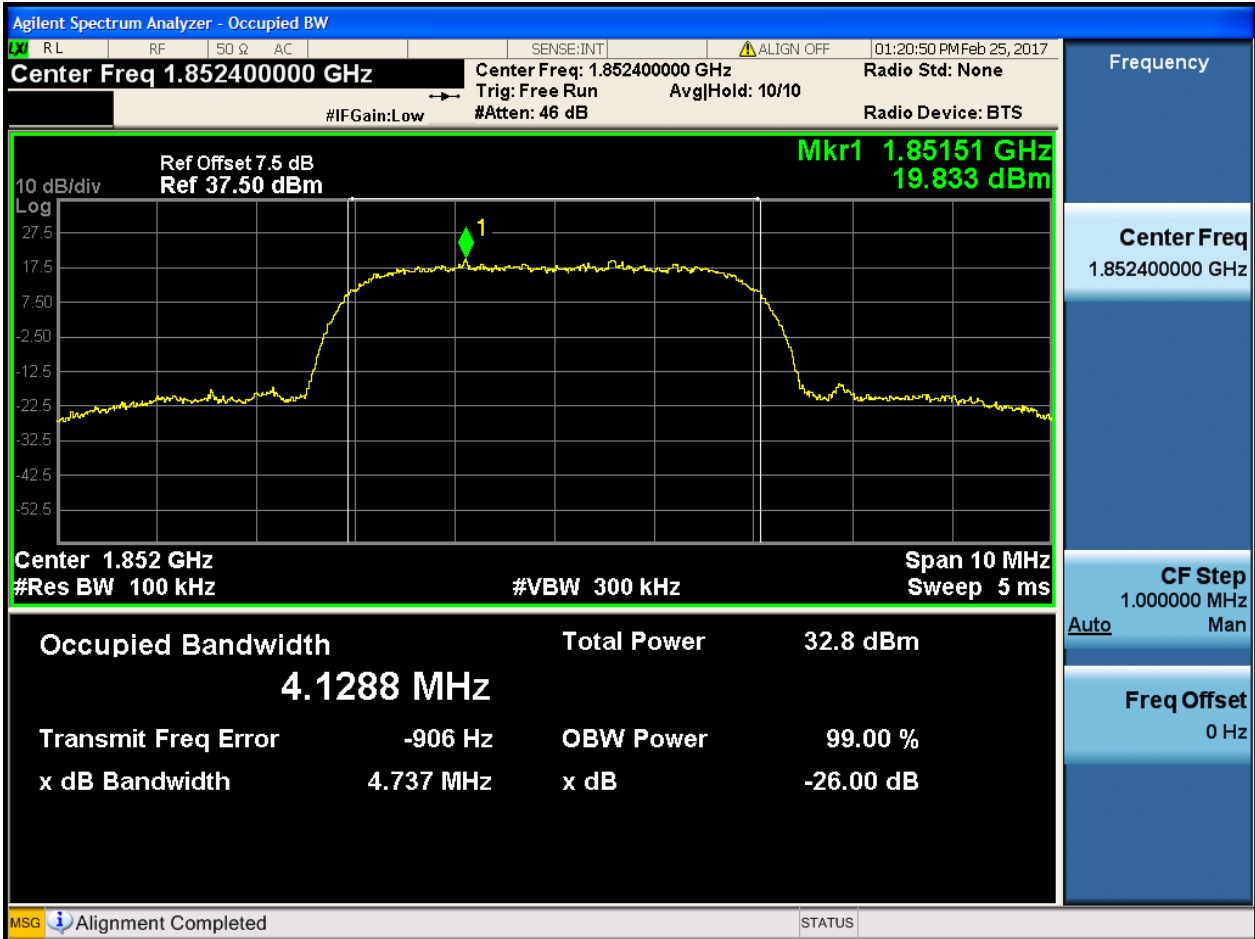




4.2.2 Test Band = WCDMA1900

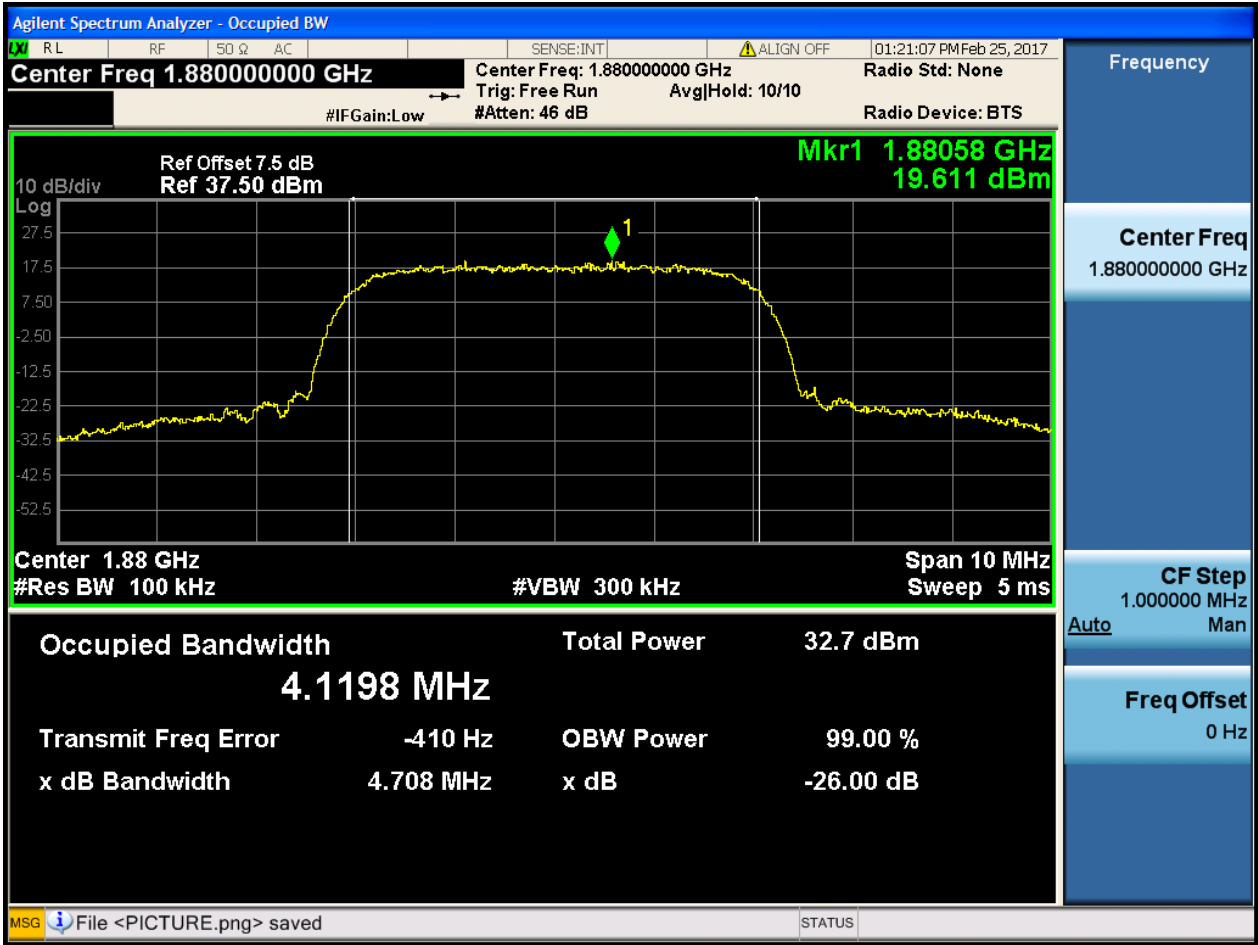
4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH



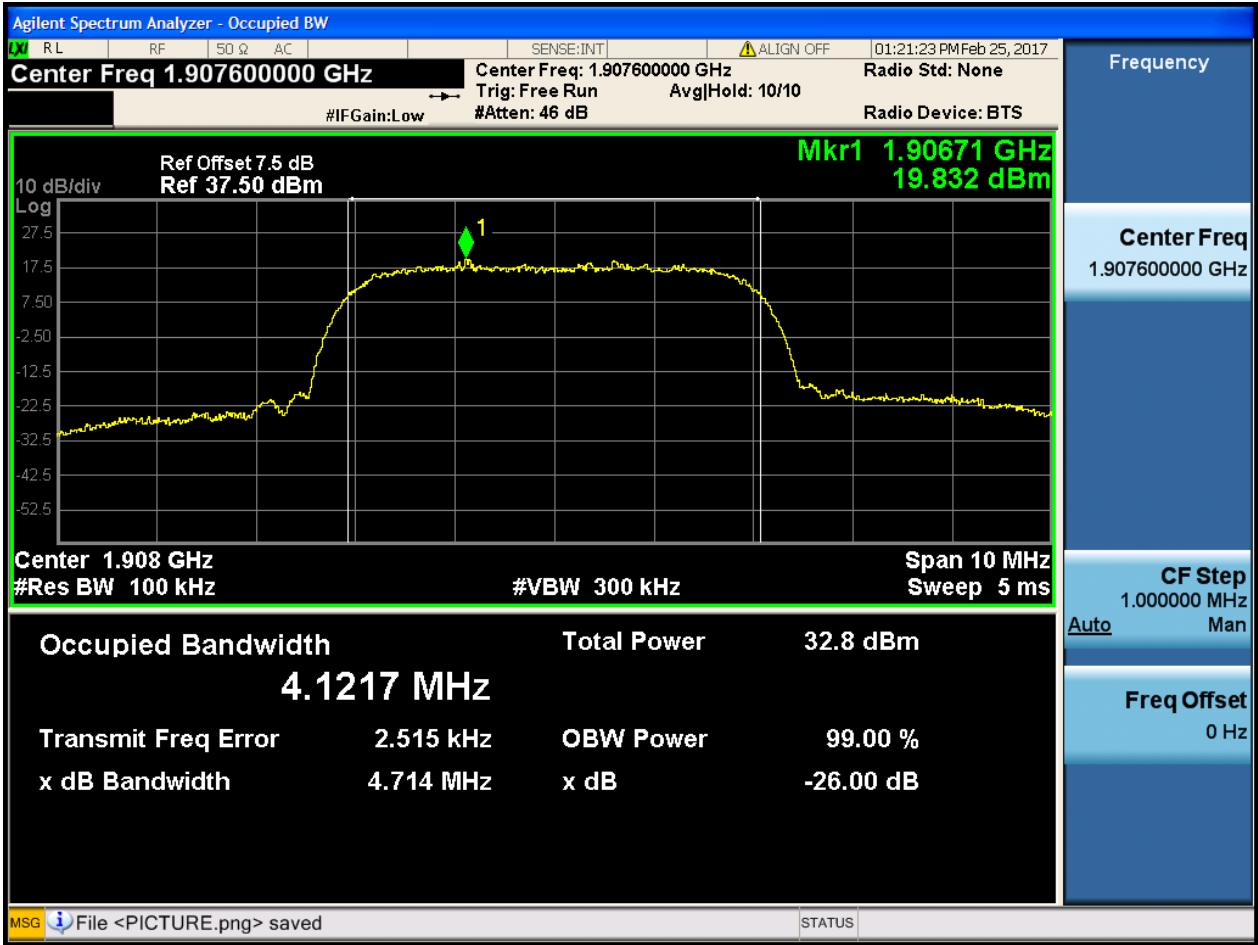


4.2.2.1.2 Test Channel = MCH





4.2.2.1.3 Test Channel = HCH





# 5Appendix\_E: Band Edges Compliance

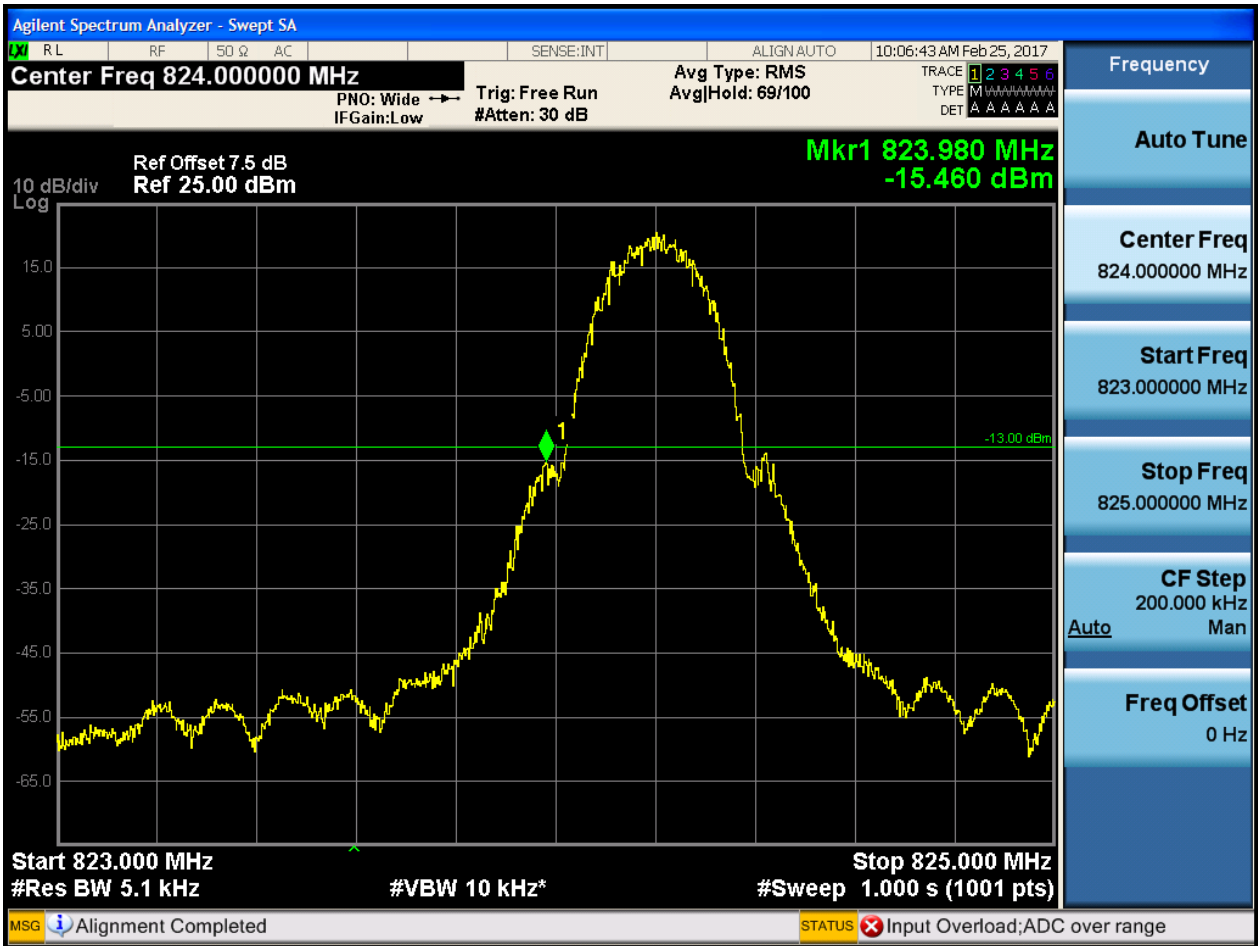
## Part I - Test Plots

### 5.1 For GSM

#### 5.1.1 Test Band = GSM850

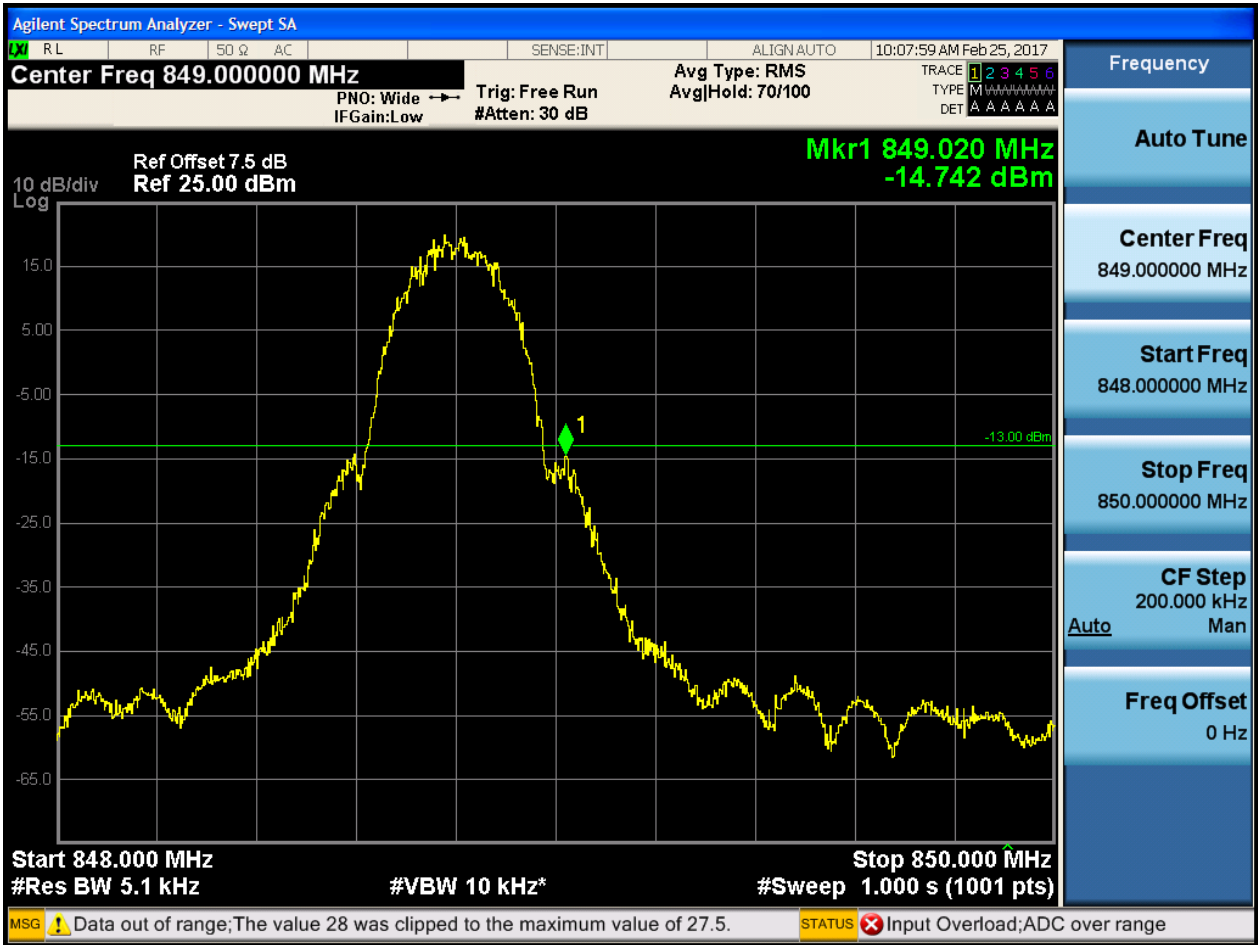
##### 5.1.1.1 Test Mode = GSM/TM1

##### 5.1.1.1.1 Test Channel = LCH





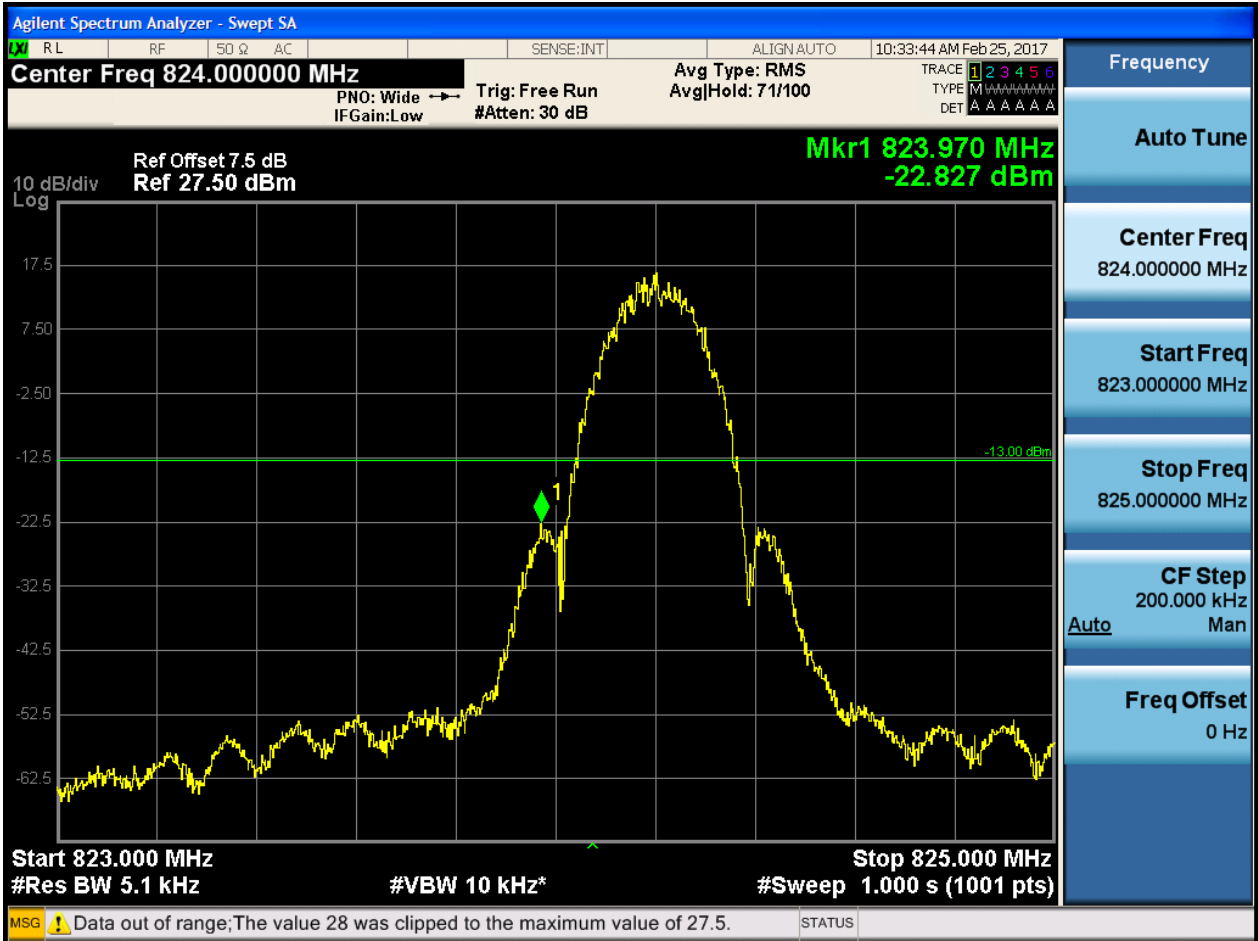
5.1.1.1.2 Test Channel = HCH





5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH





5.1.1.2.2 Test Channel = HCH

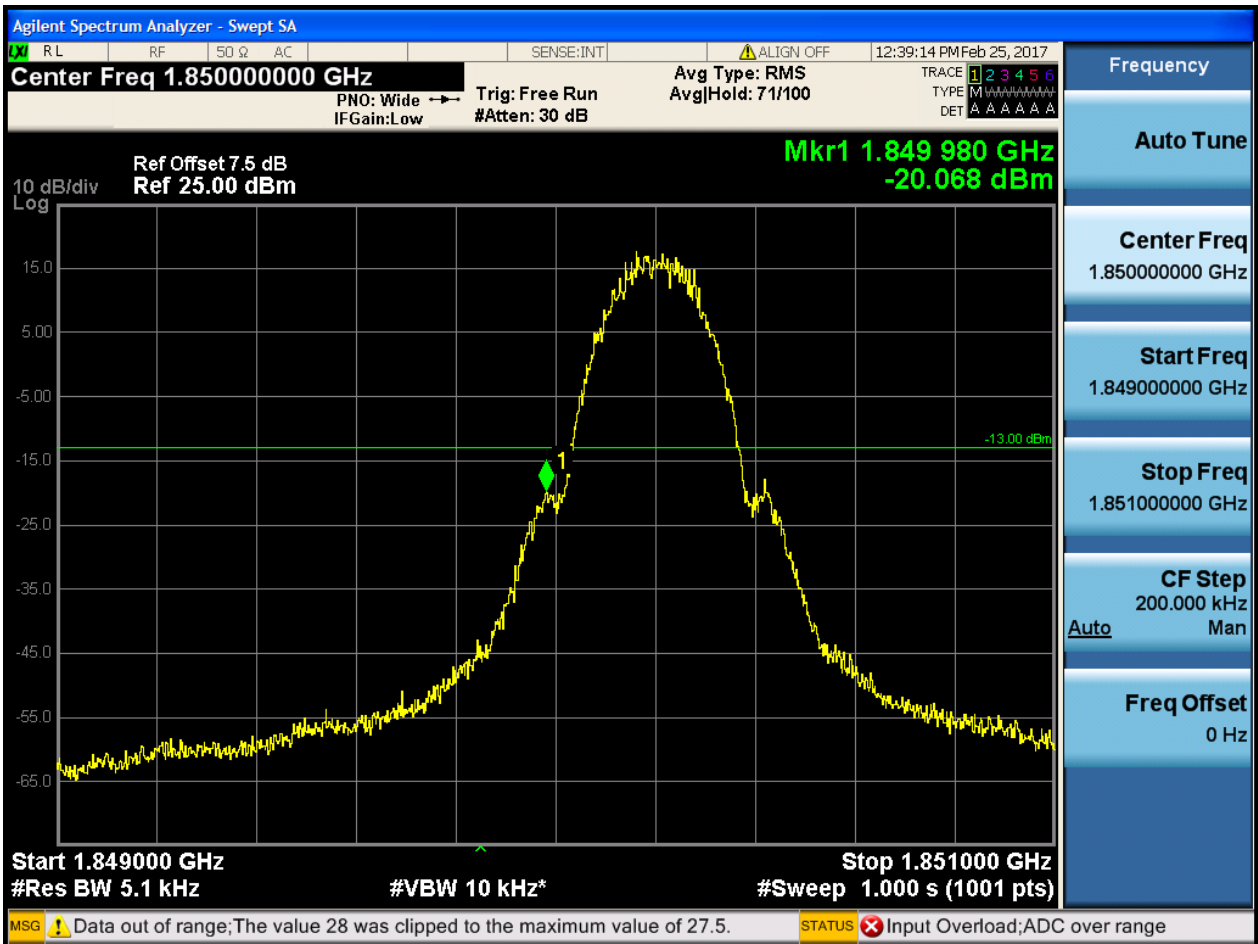




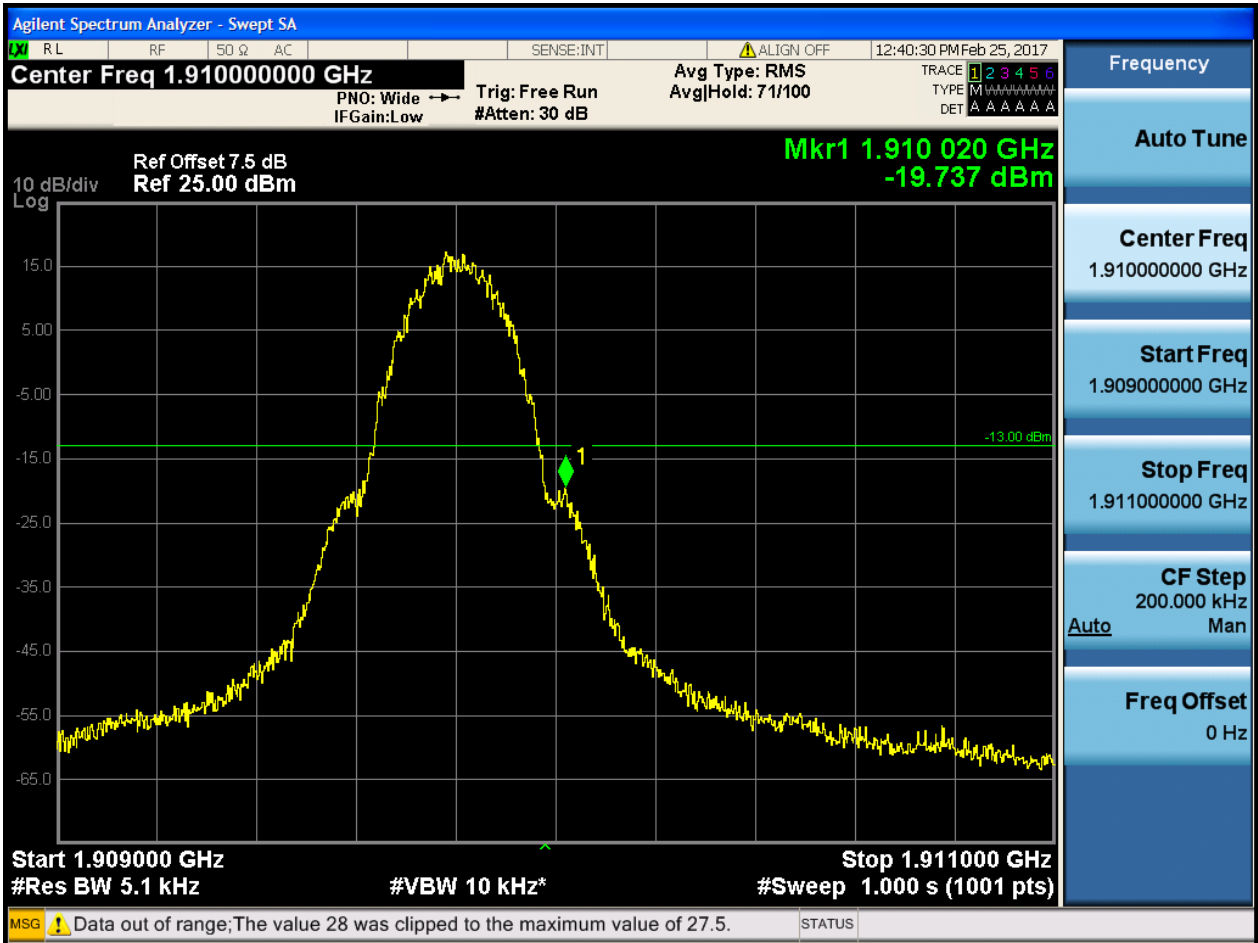
5.1.2 Test Band = GSM1900

5.1.2.1 Test Mode = GSM/TM1

5.1.2.1.1 Test Channel = LCH



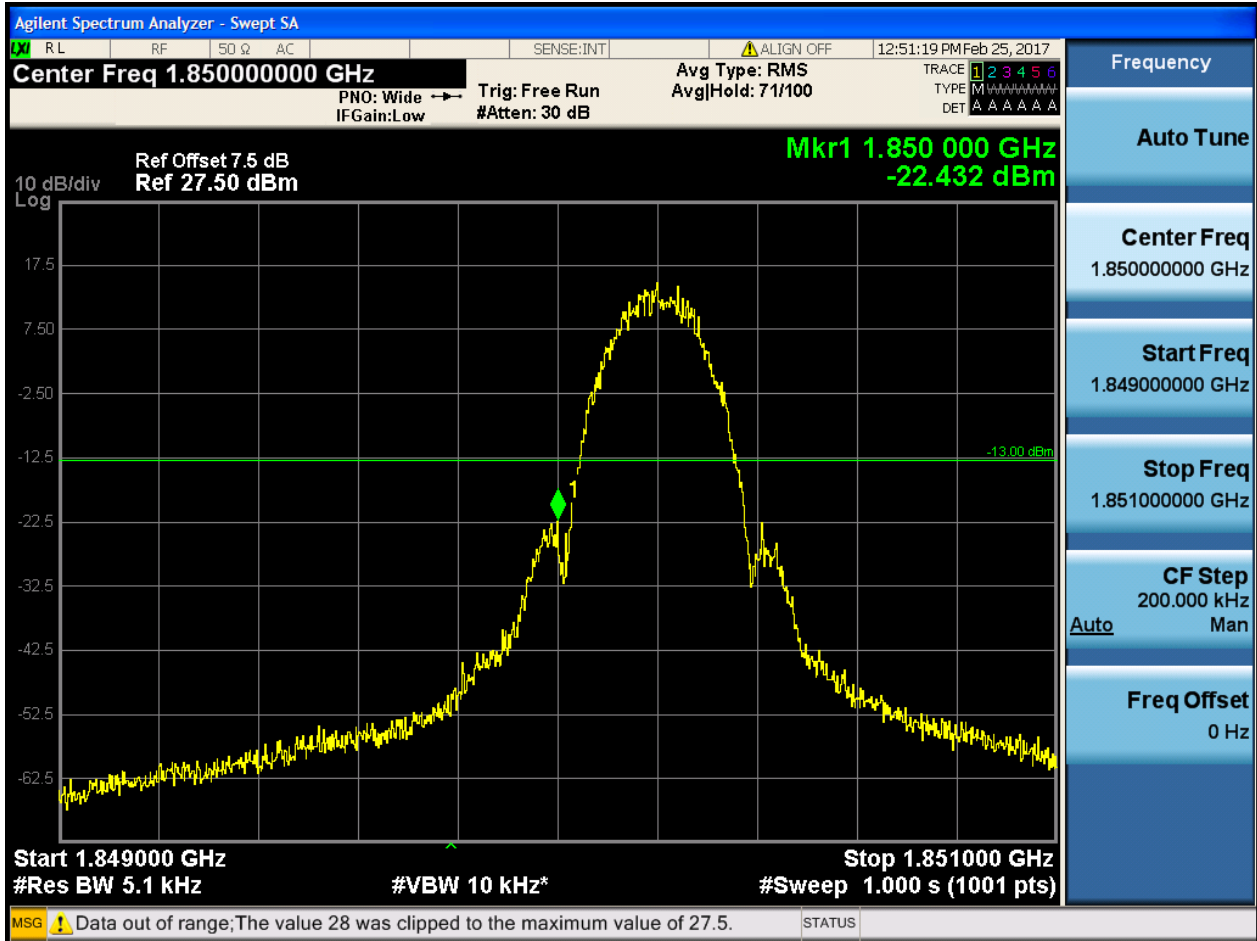
5.1.2.1.2 Test Channel = HCH



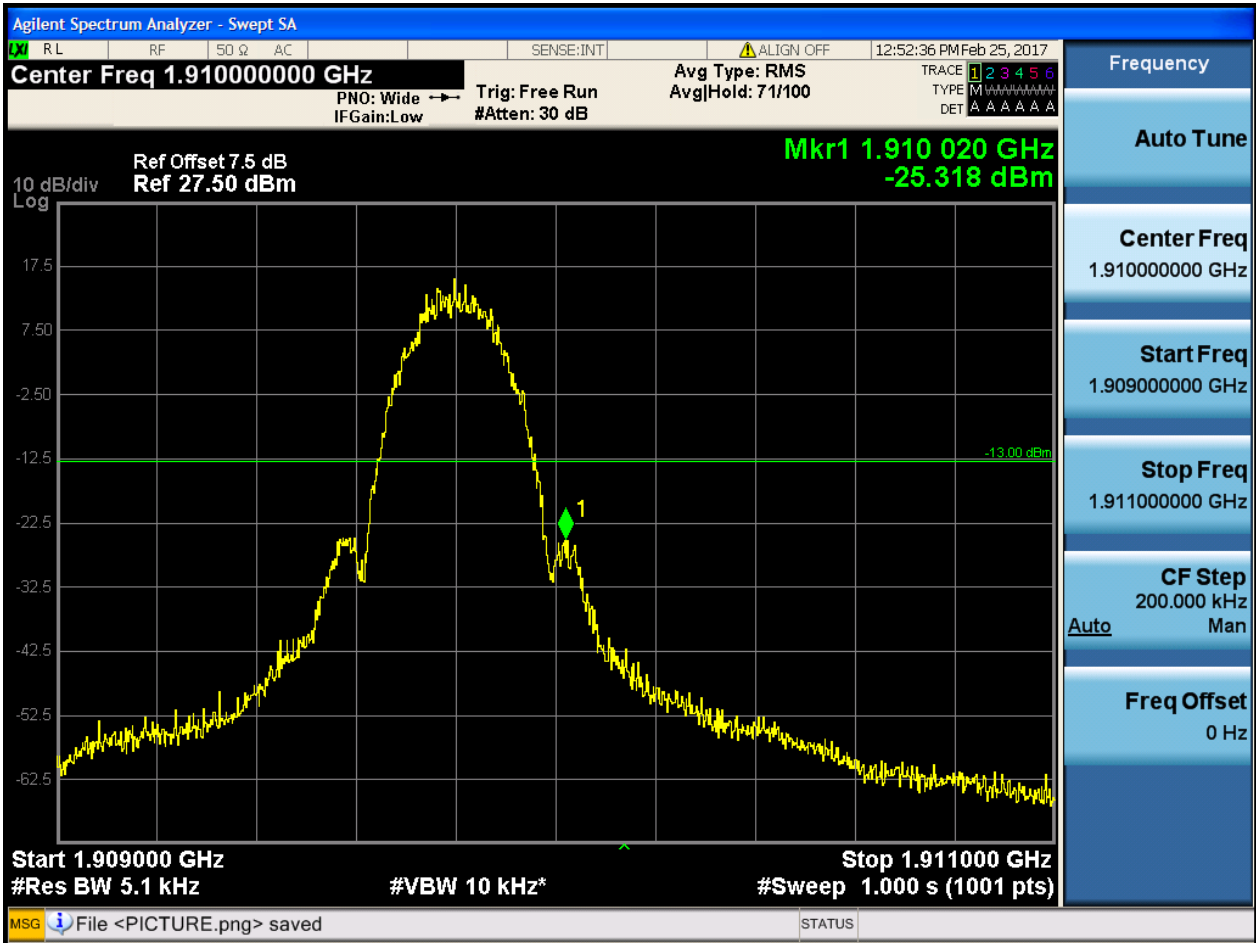


### 5.1.2.2 Test Mode = GSM/TM2

#### 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

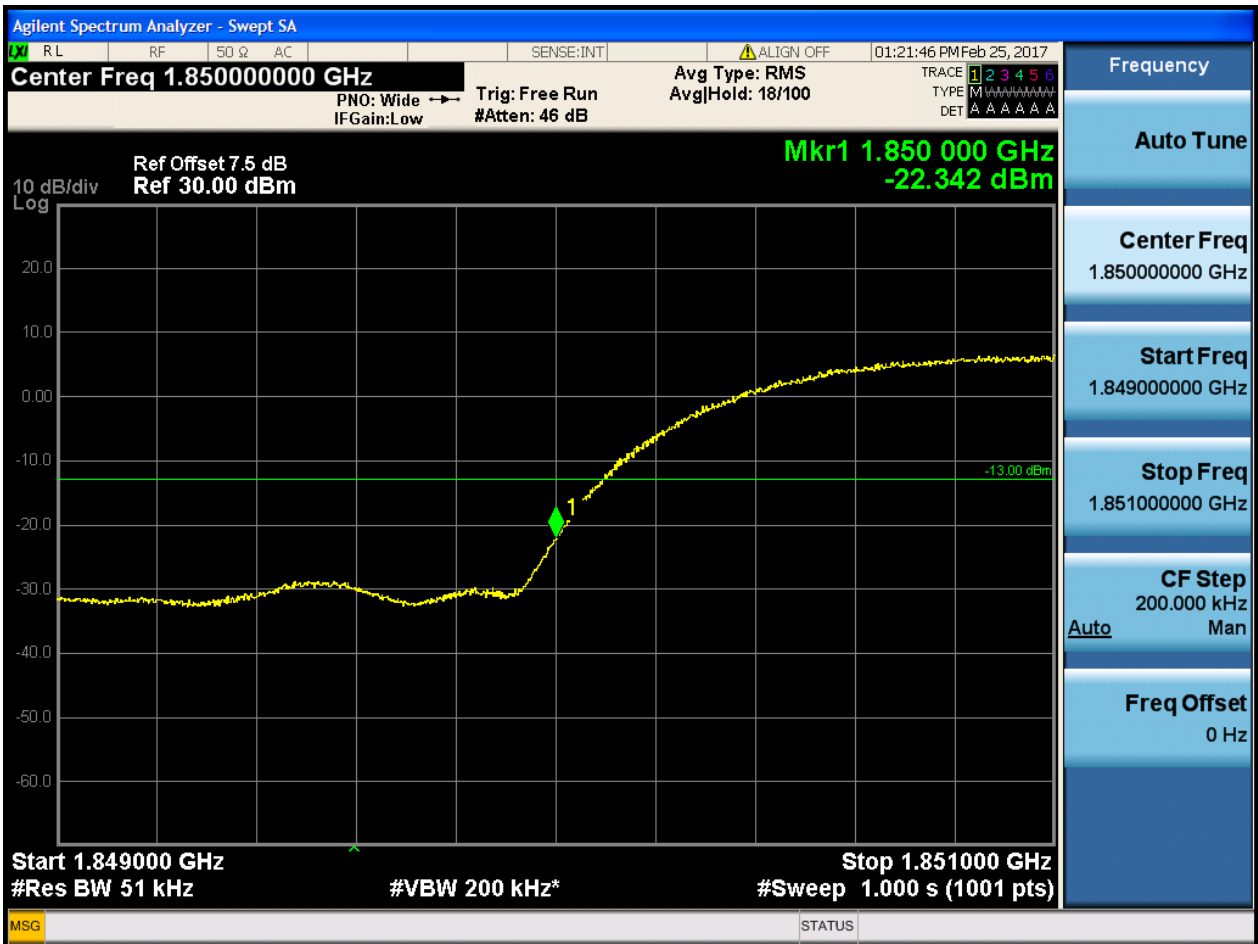




5.2.2 Test Band = WCDMA1900

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.

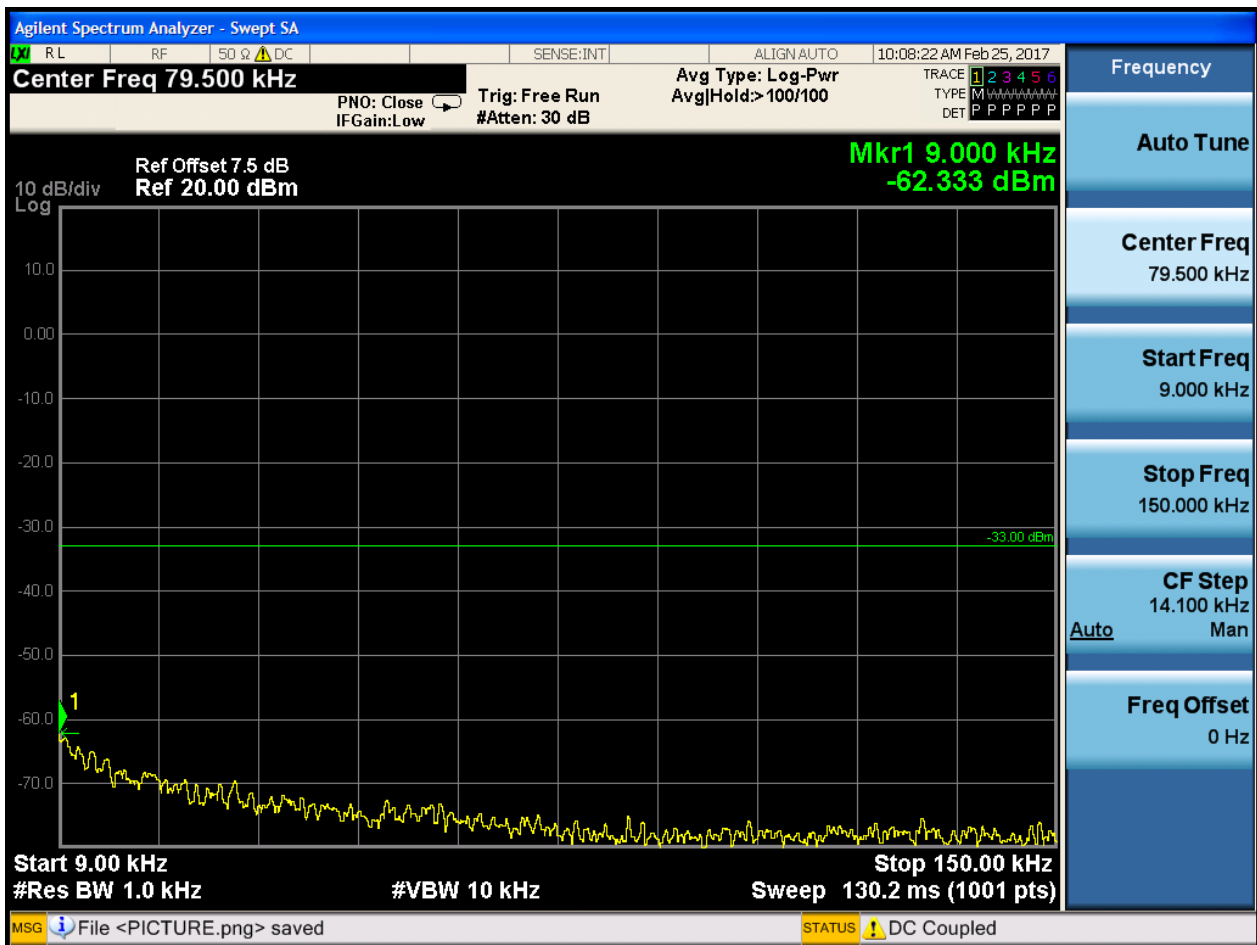
### Part I - Test Plots

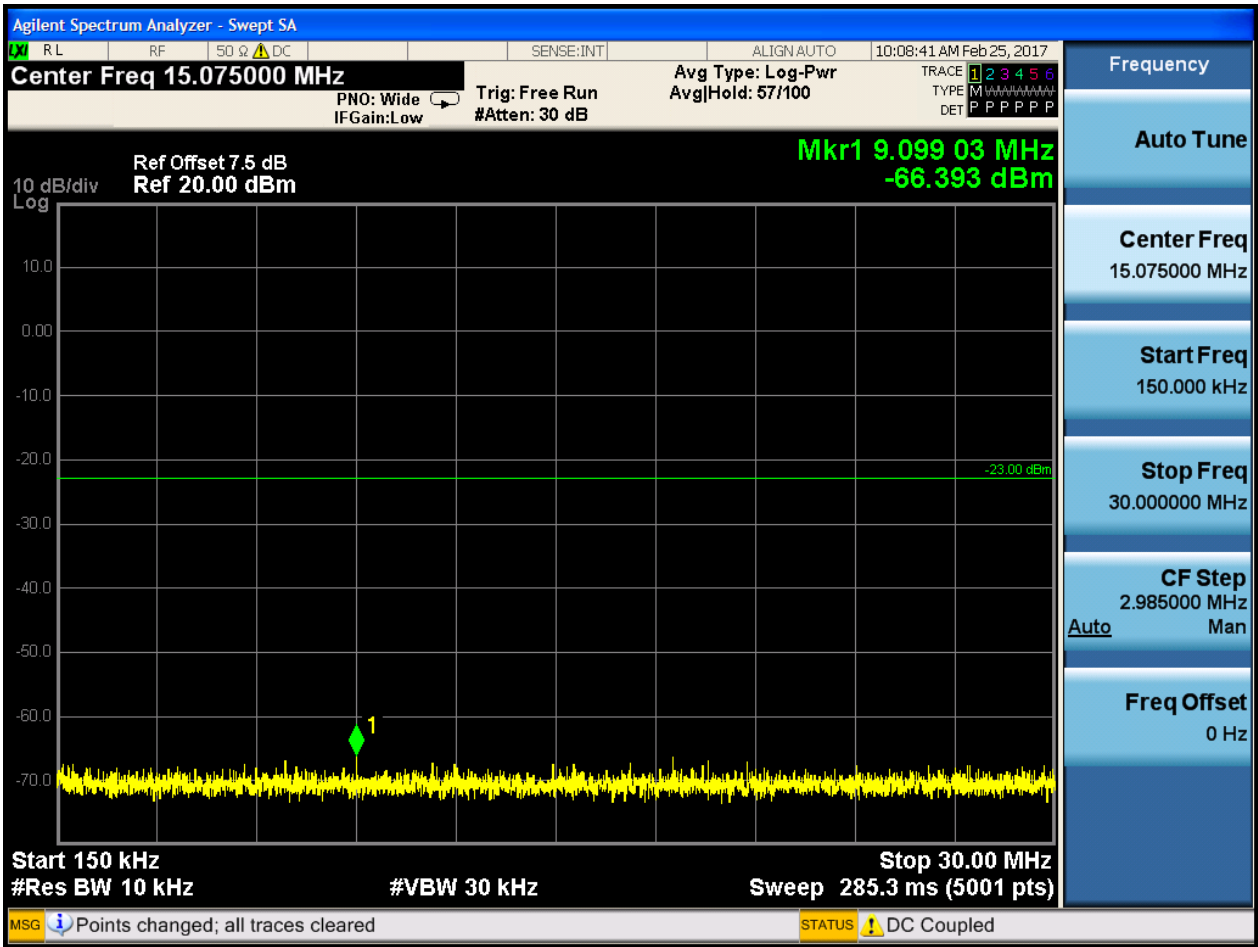
#### 6.1 For GSM

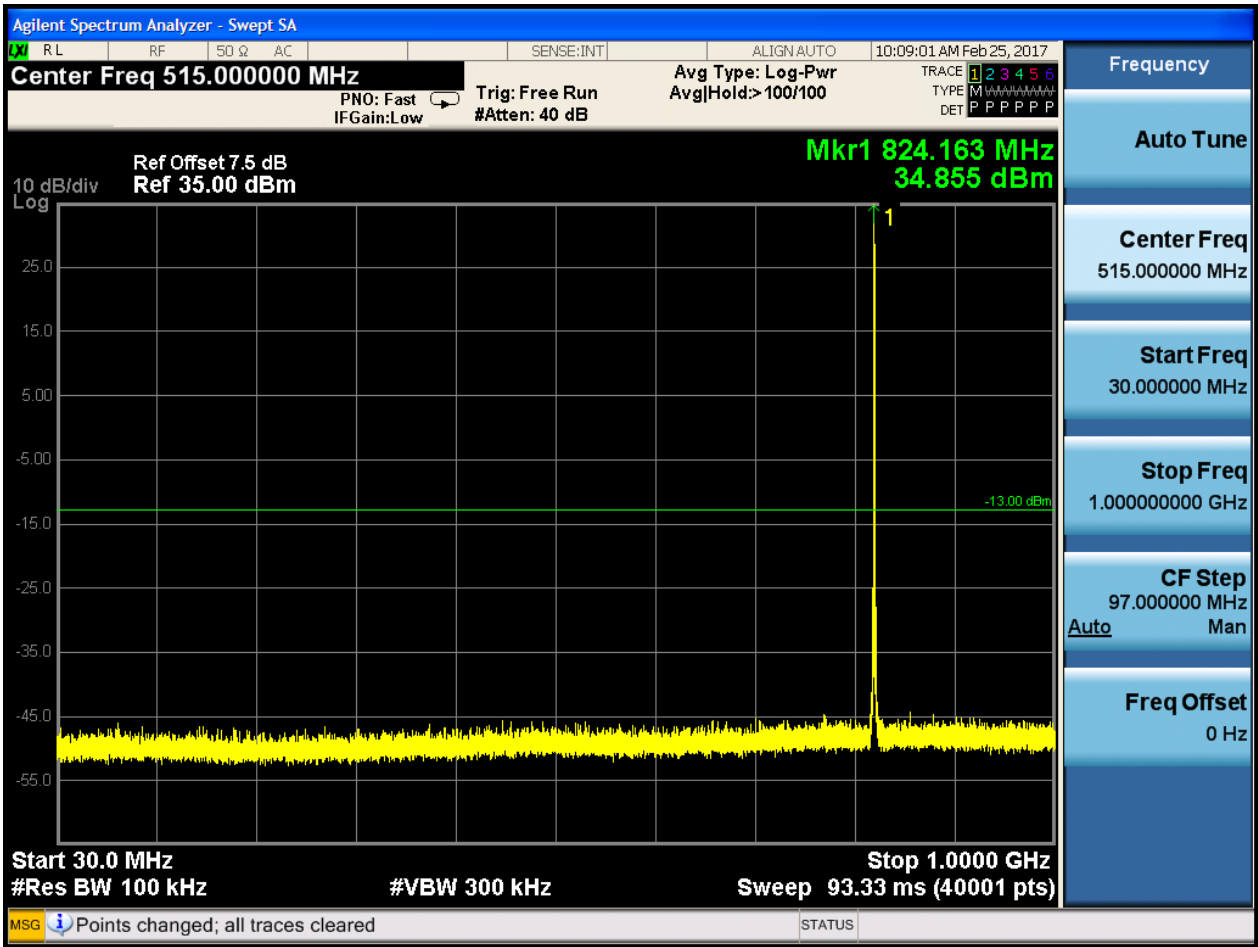
##### 6.1.1 Test Band = GSM850

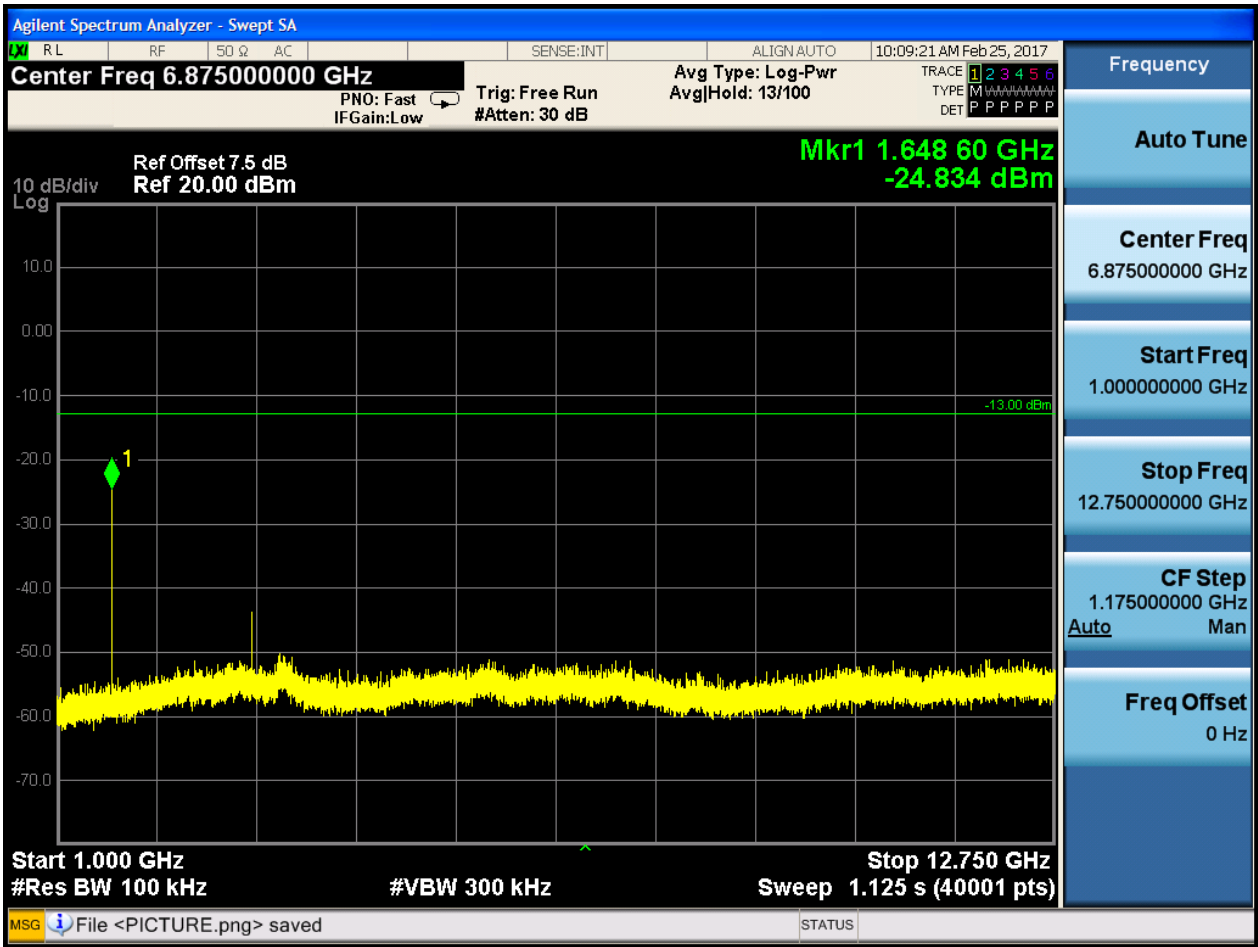
##### 6.1.1.1 Test Mode = GSM/TM1

##### 6.1.1.1.1 Test Channel = LCH



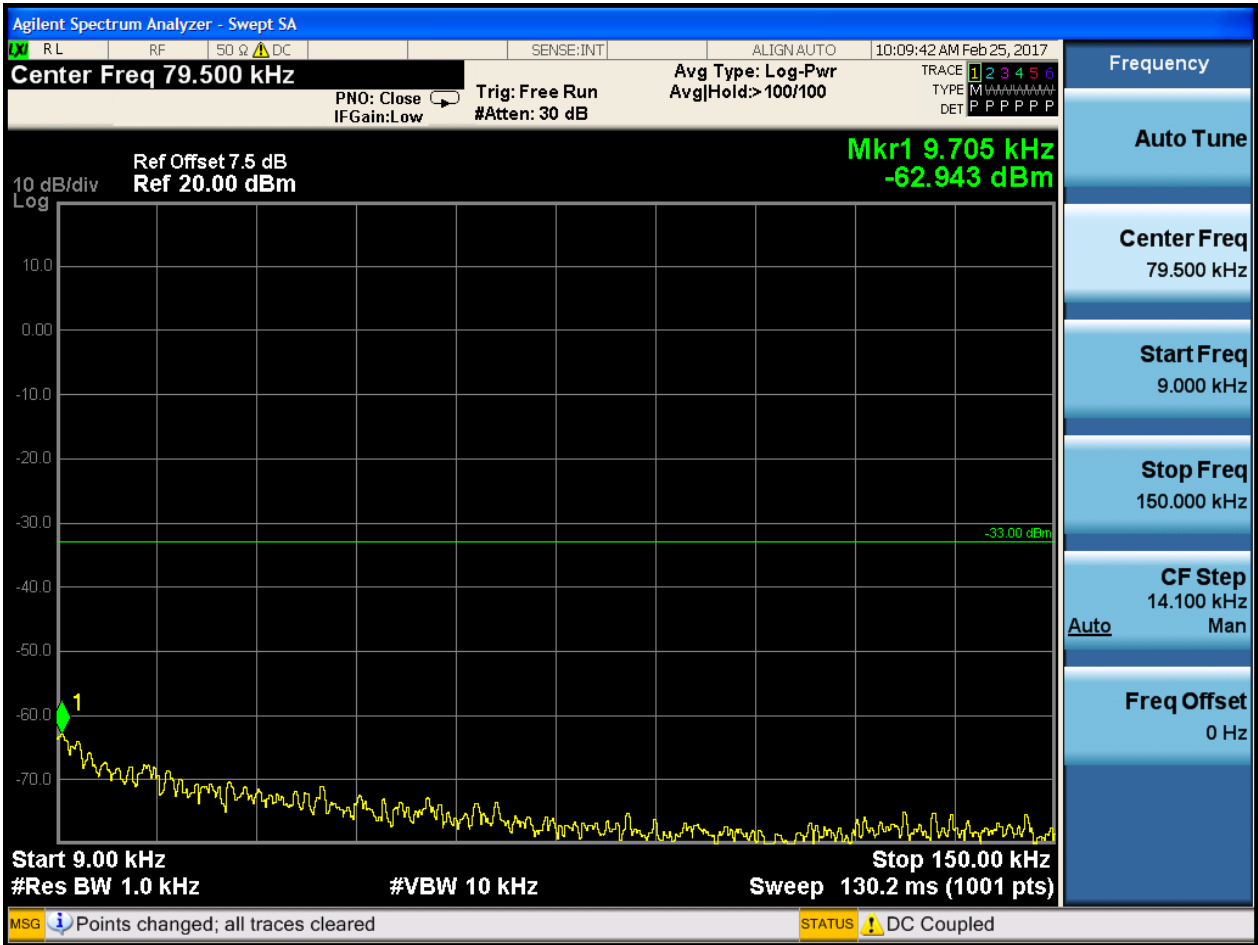


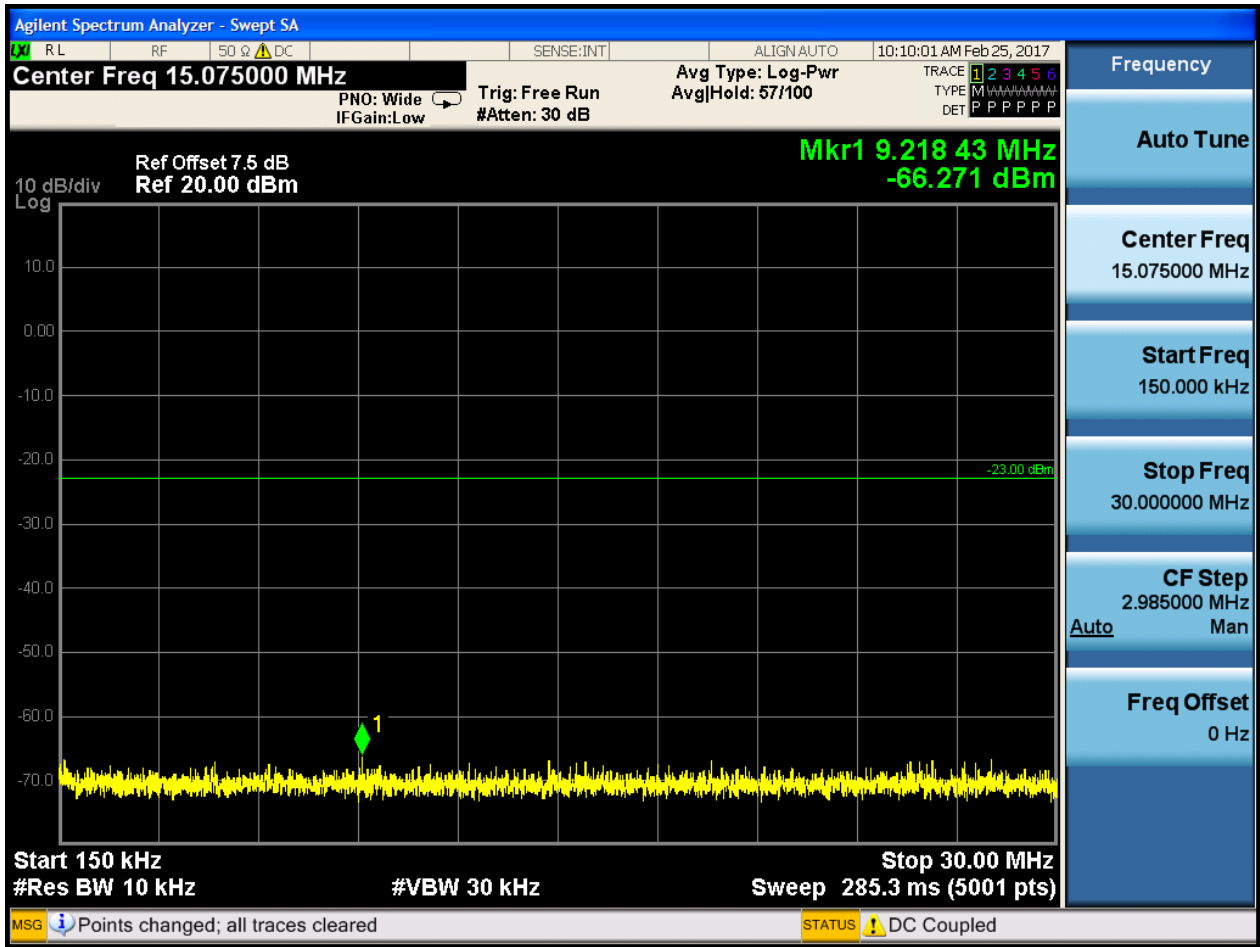


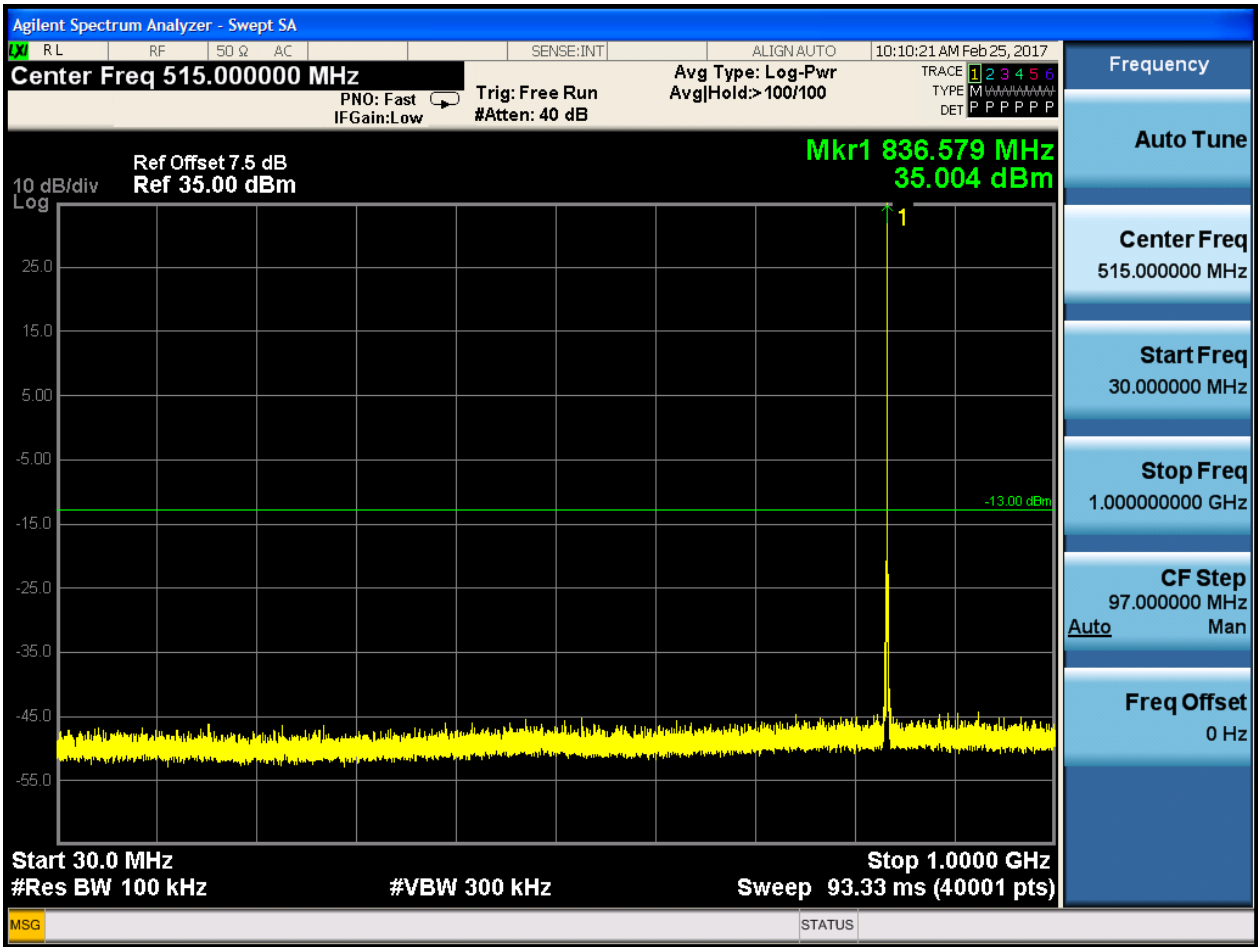




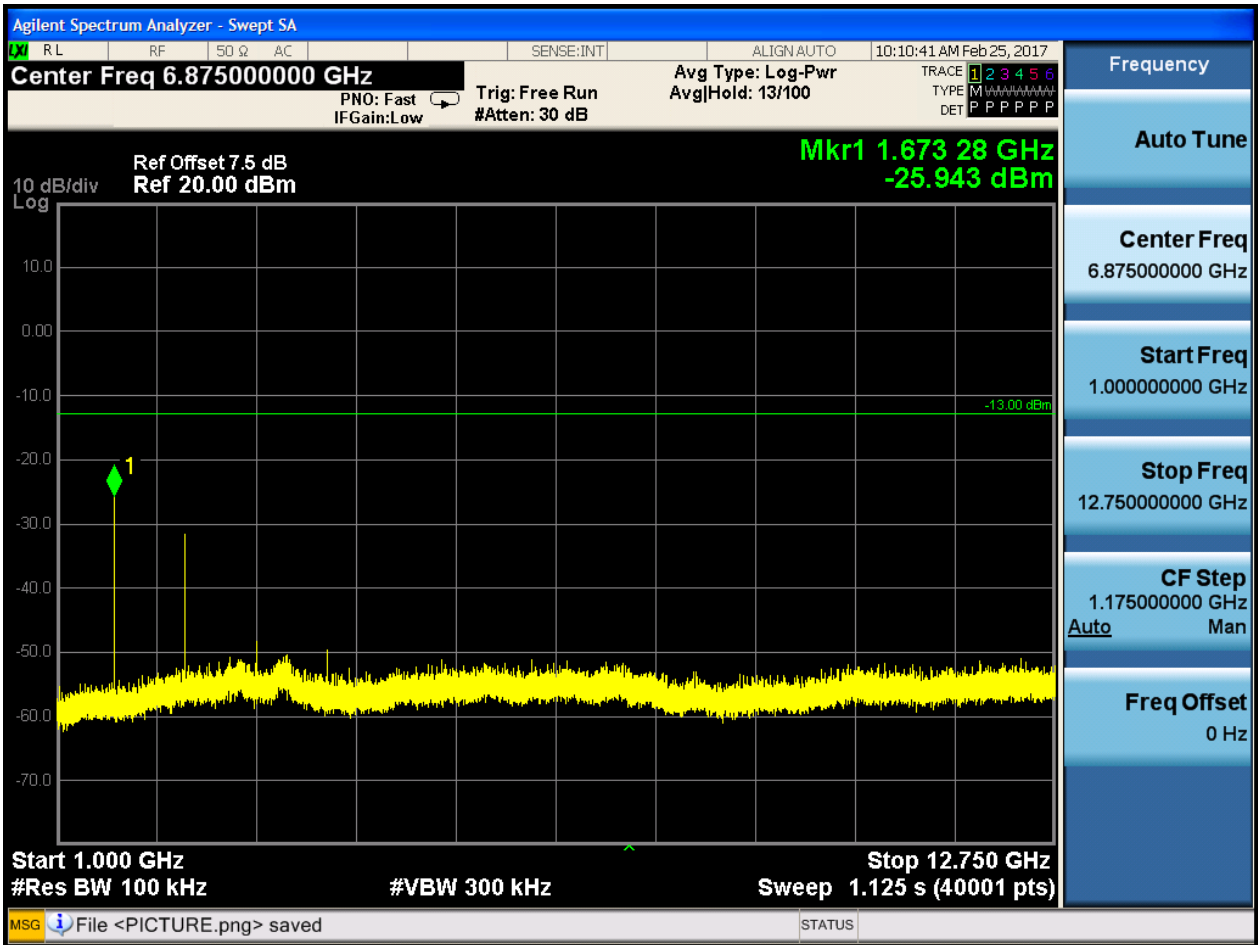
6.1.1.1.2 Test Channel = MCH





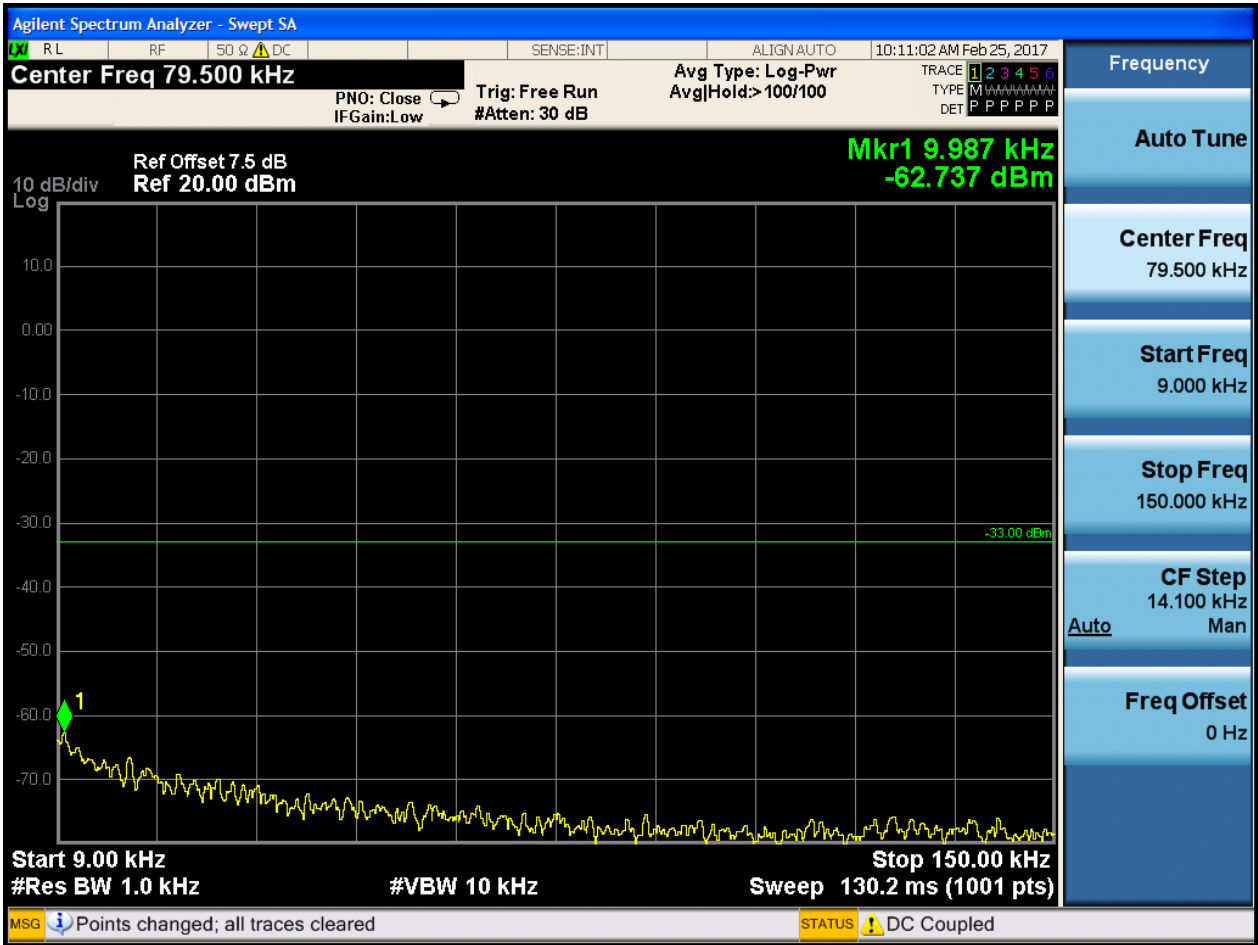


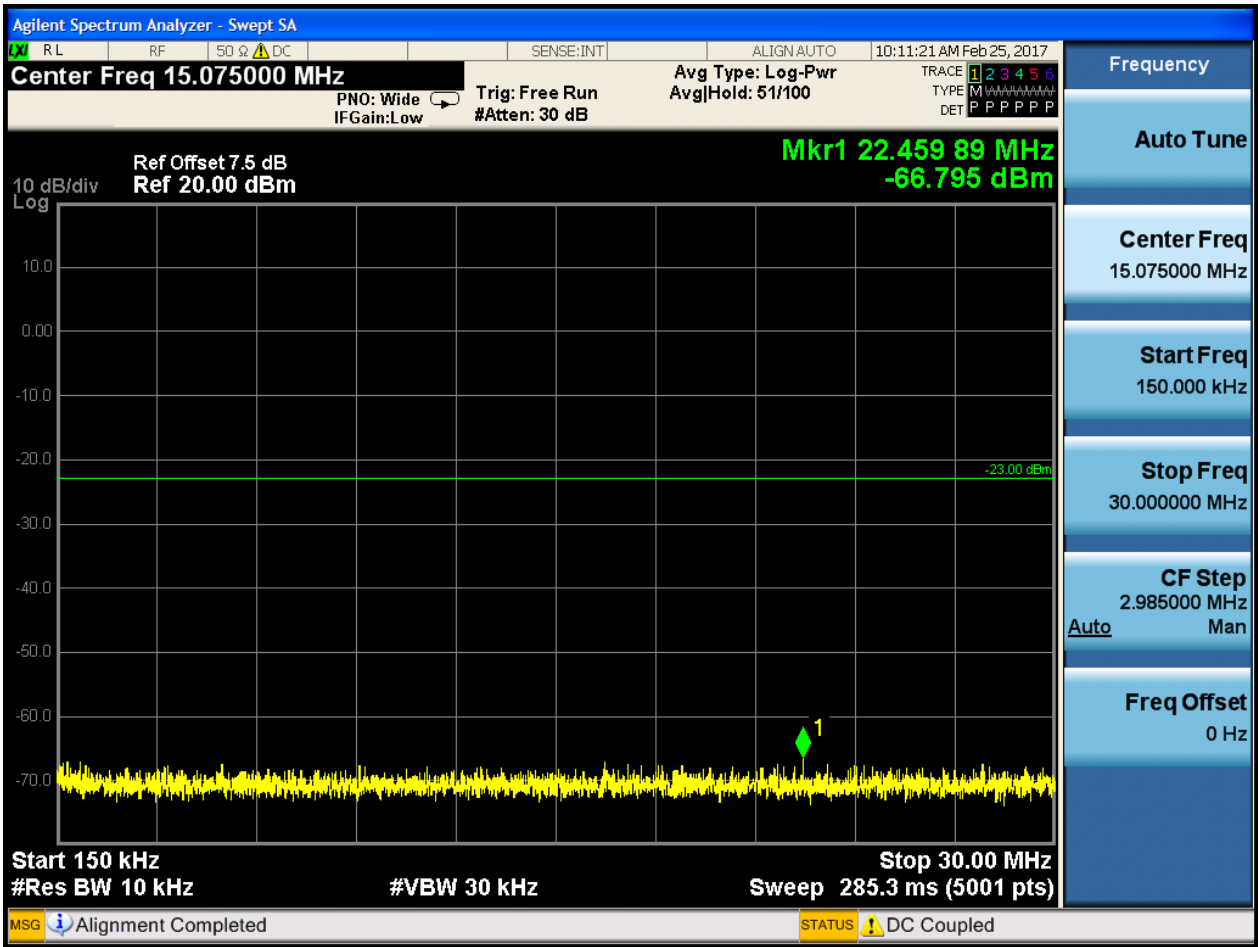


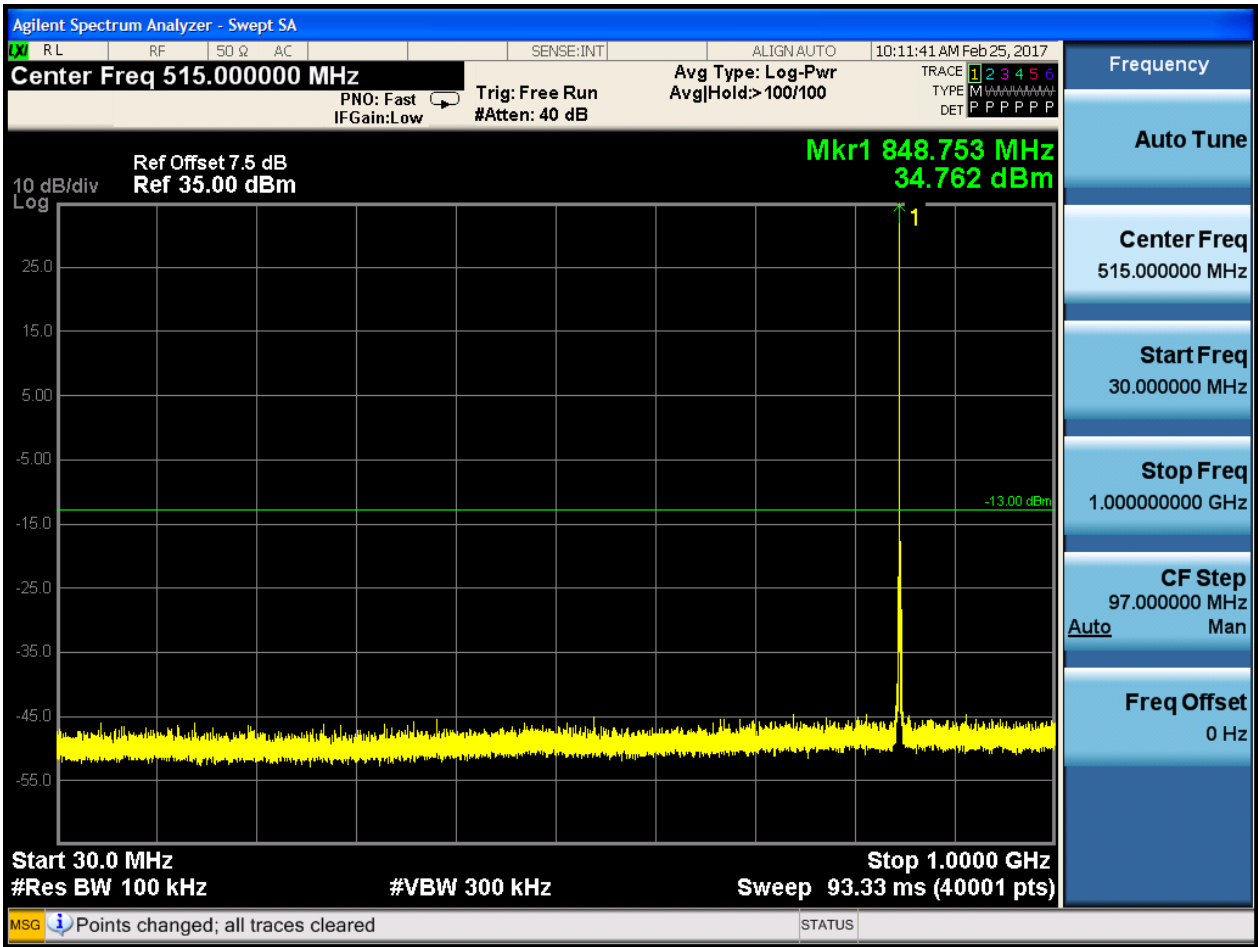


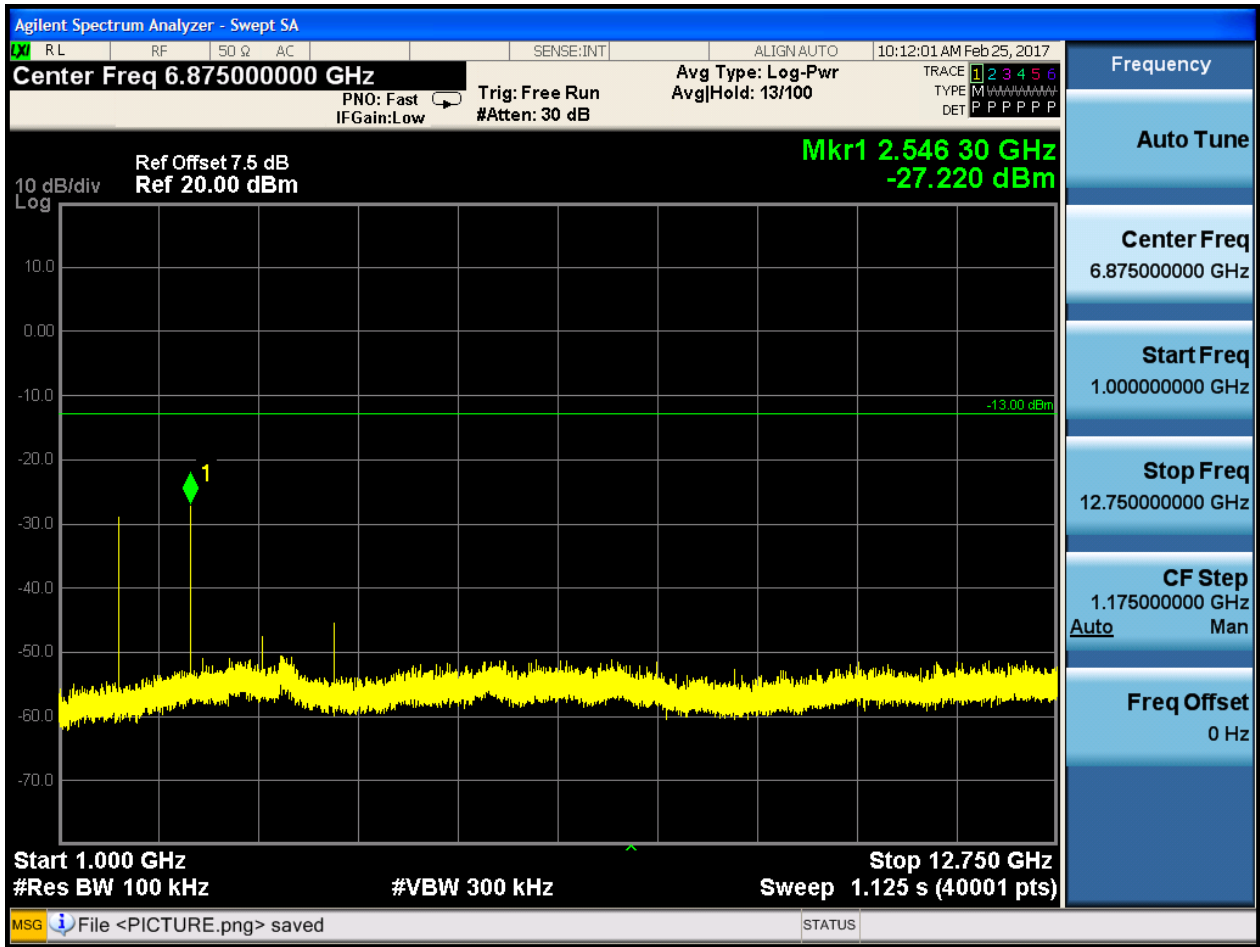


6.1.1.1.3 Test Channel = HCH





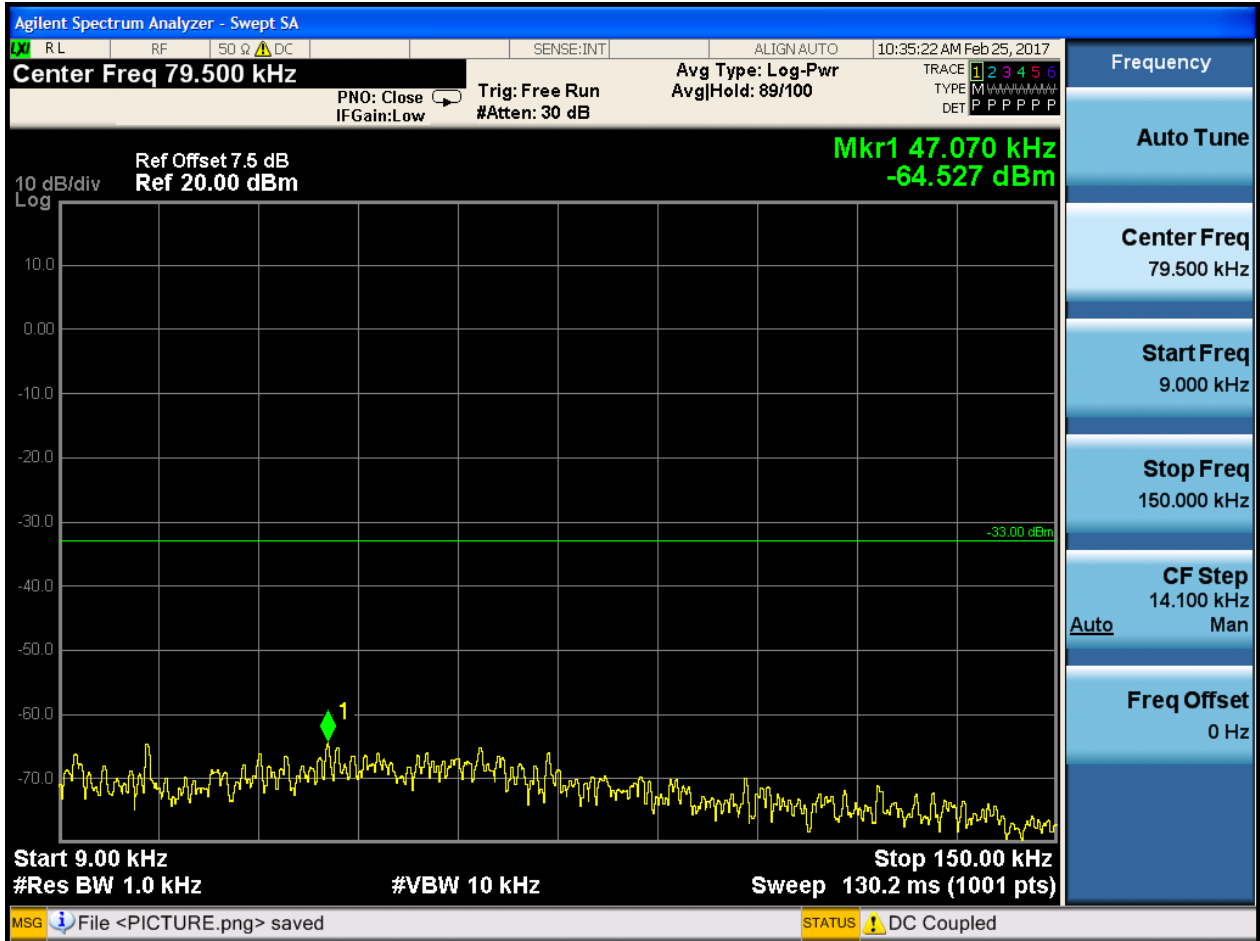


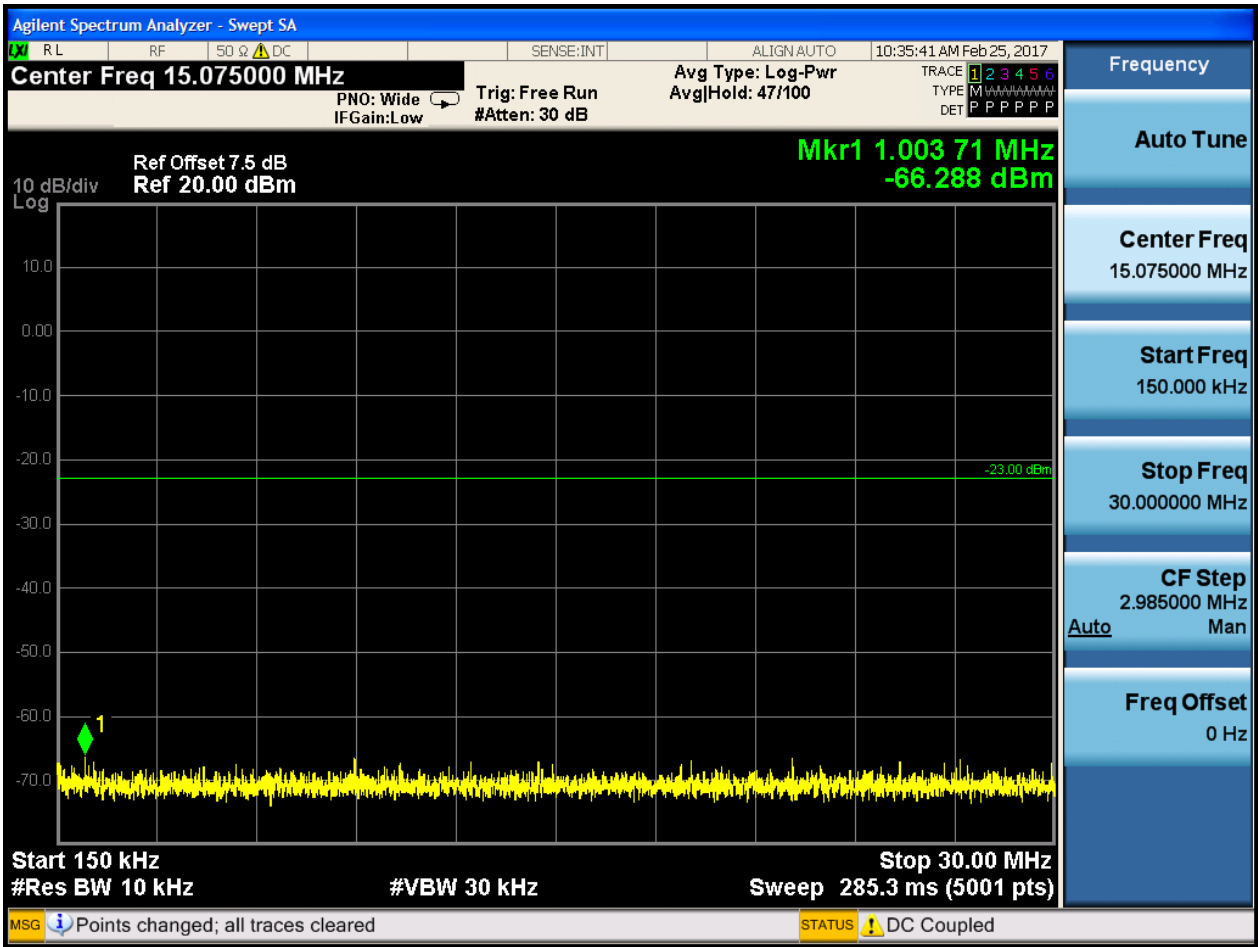


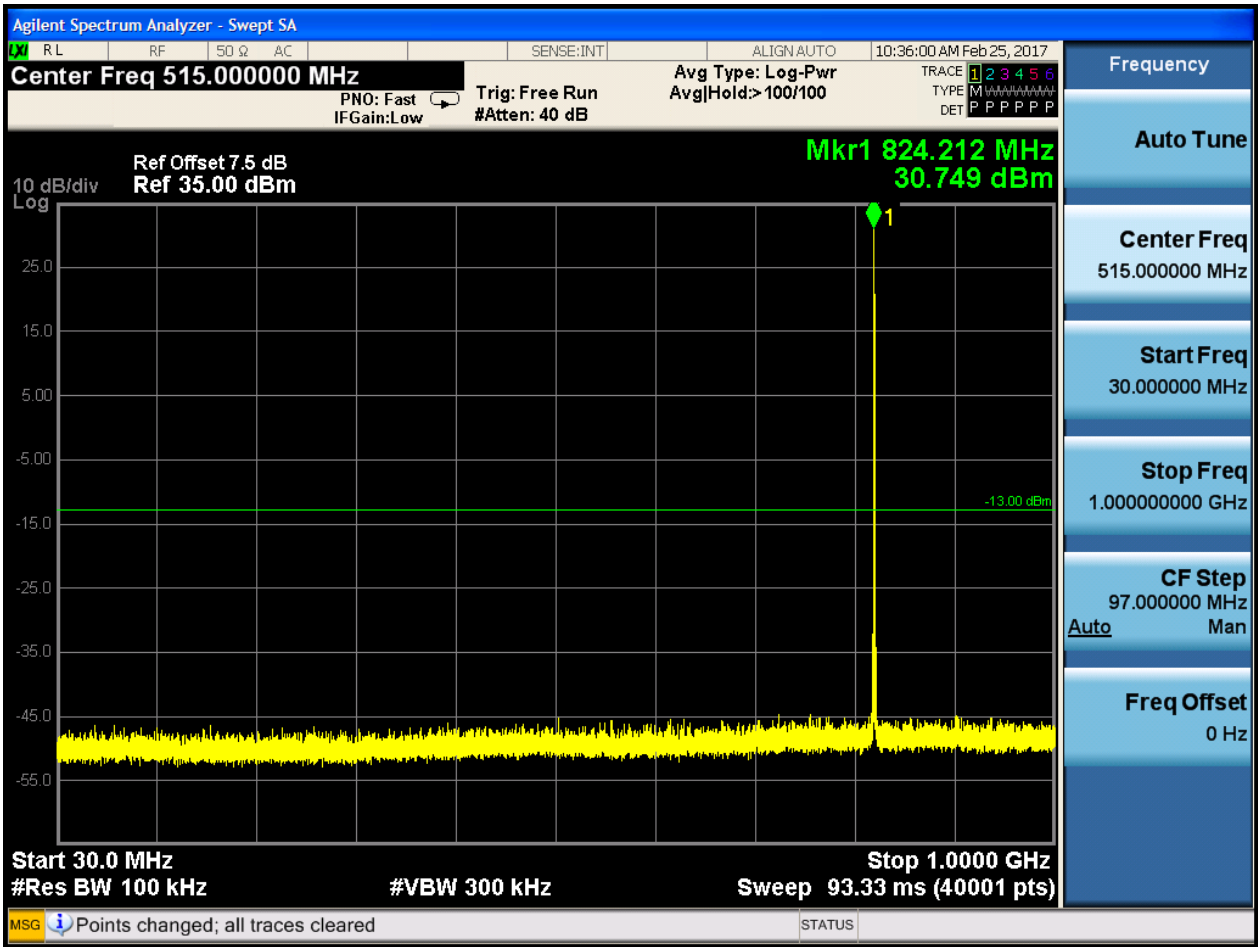


6.1.1.2 Test Mode = GSM/TM2

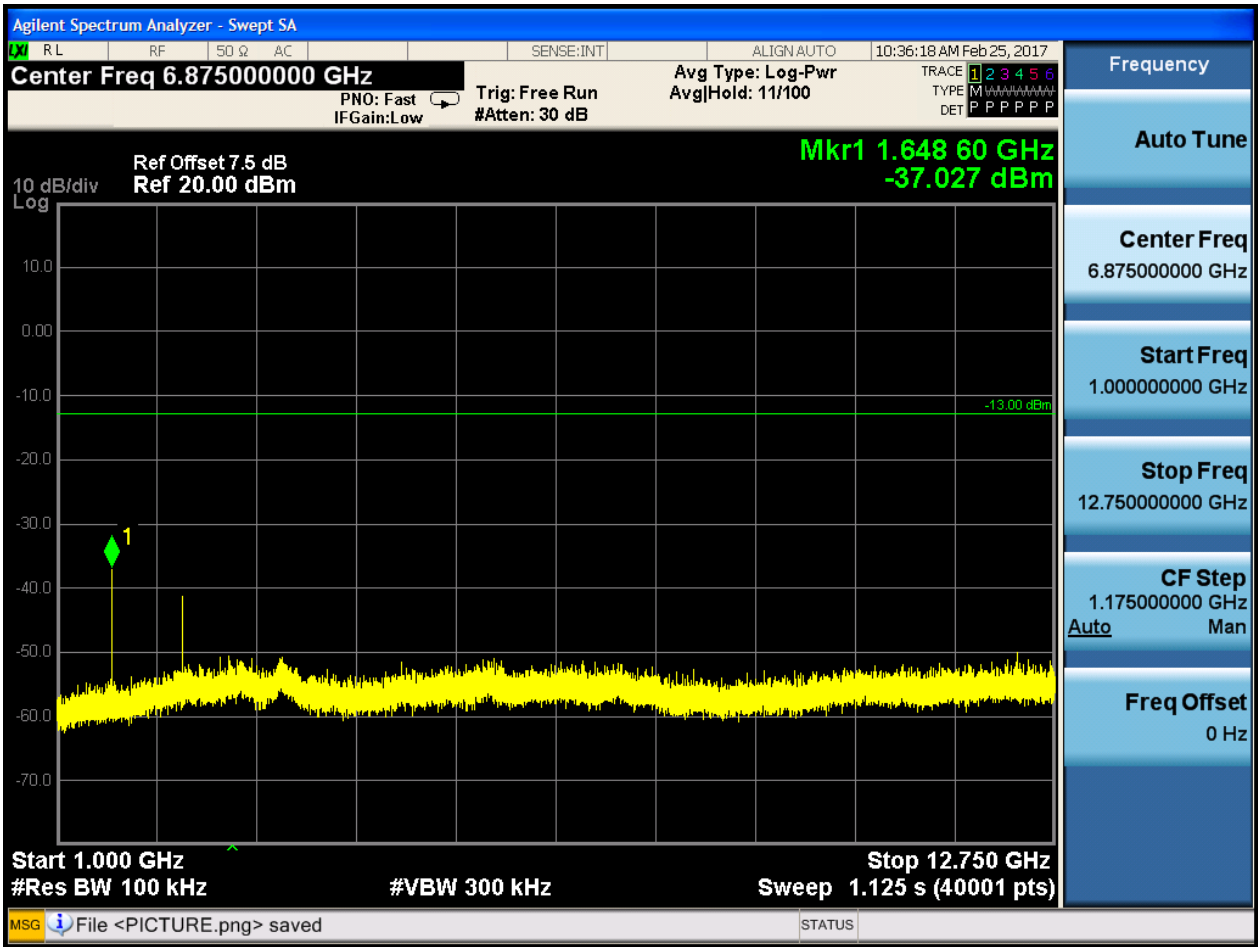
6.1.1.2.1 Test Channel = LCH





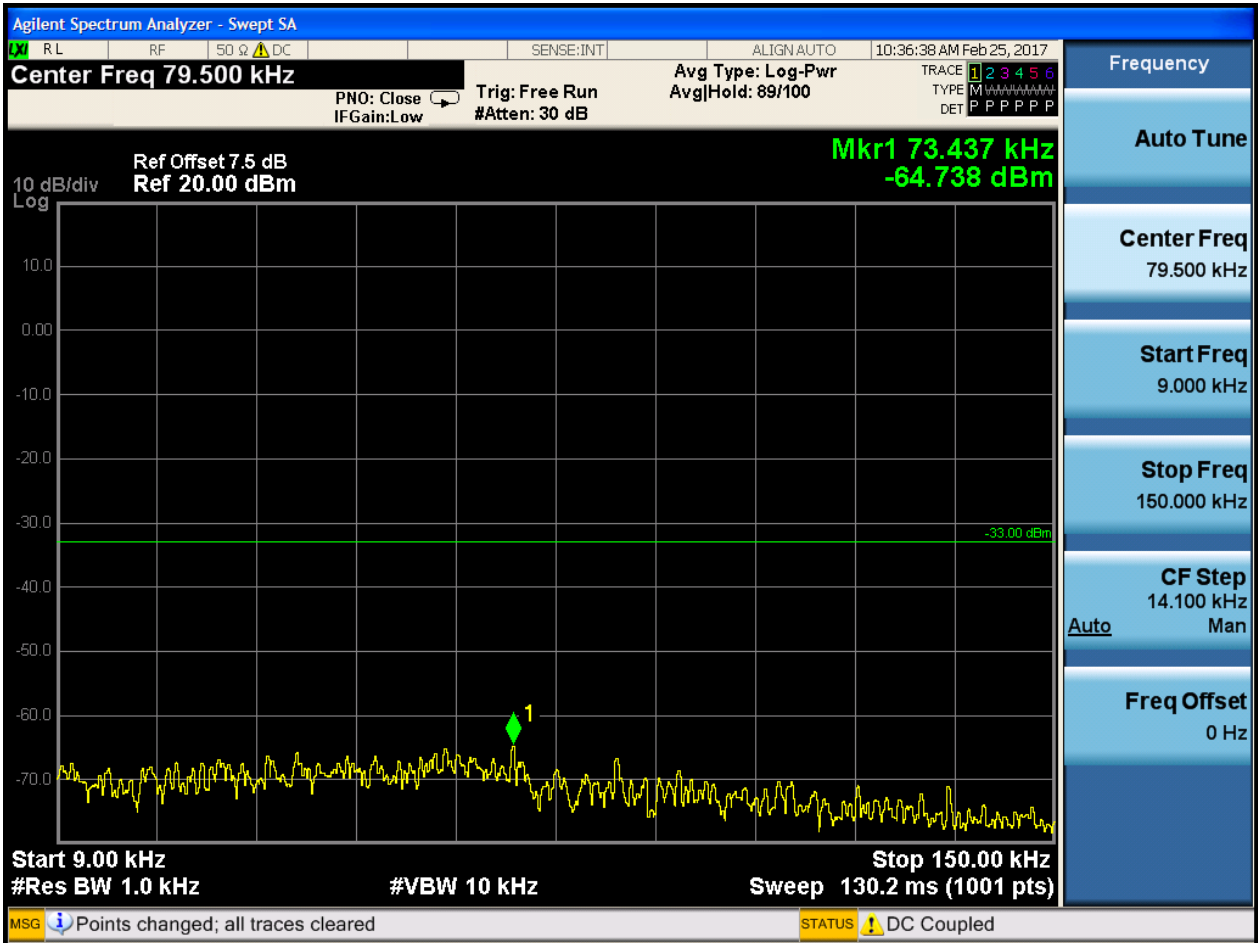


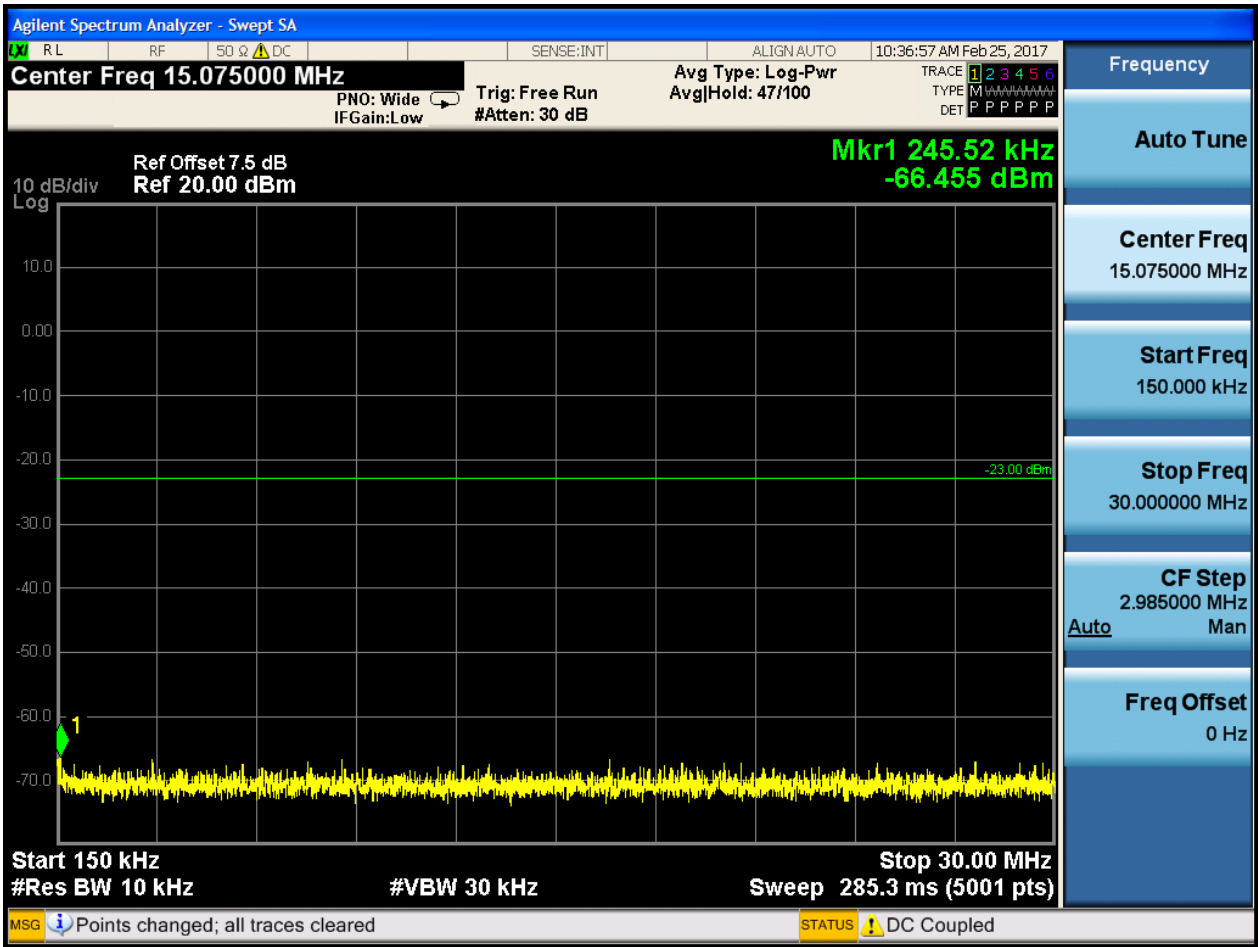


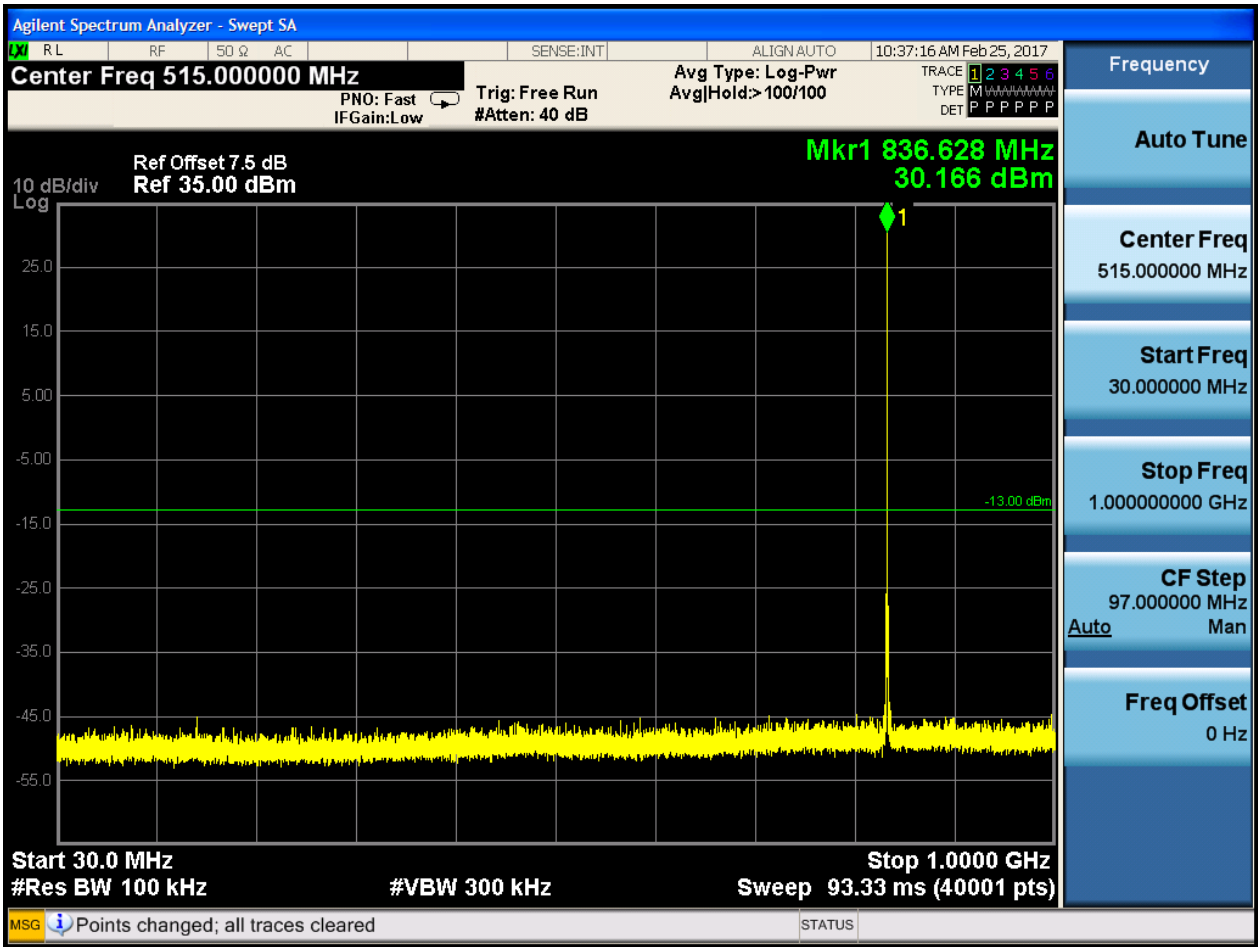


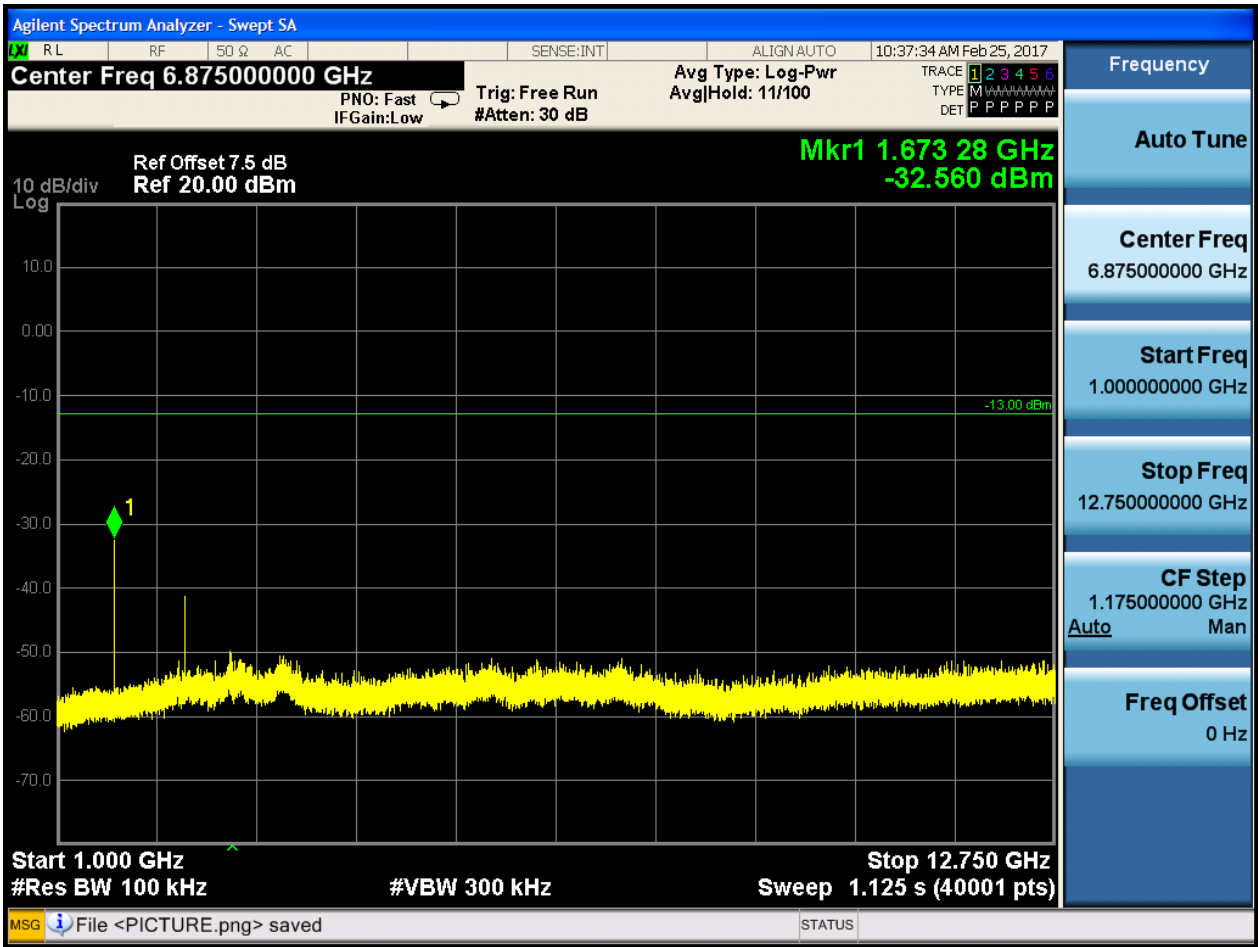


6.1.1.2.2 Test Channel = MCH



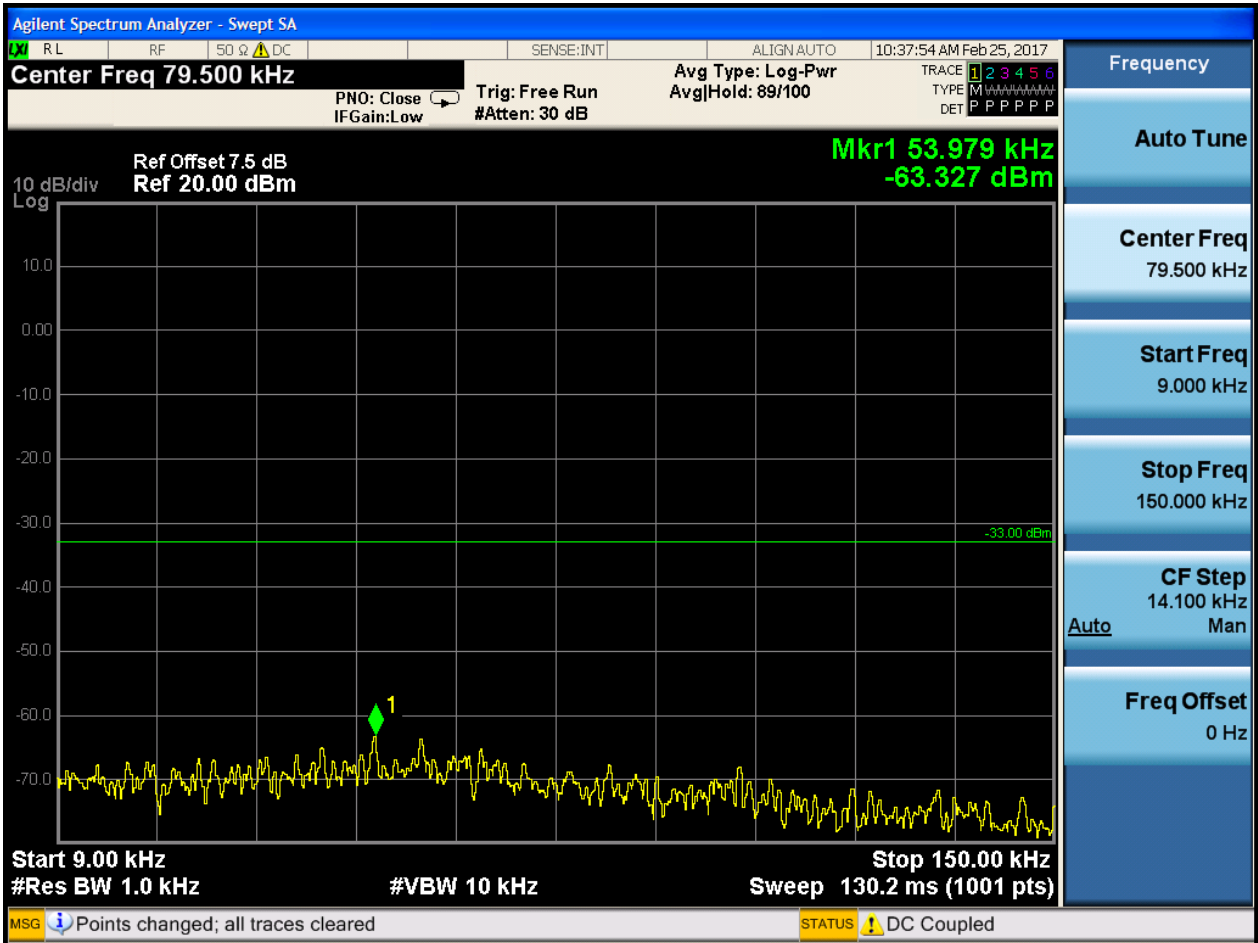


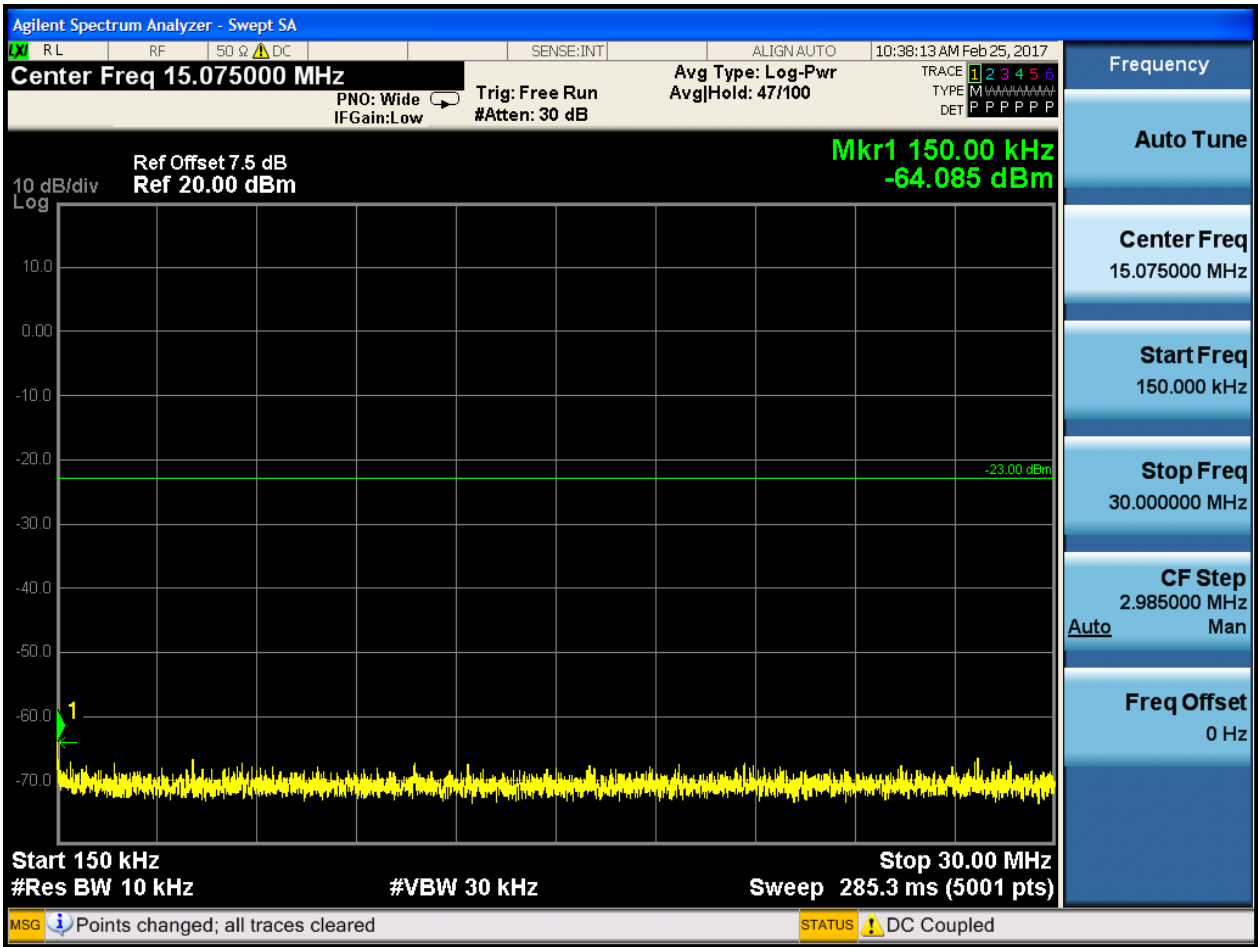


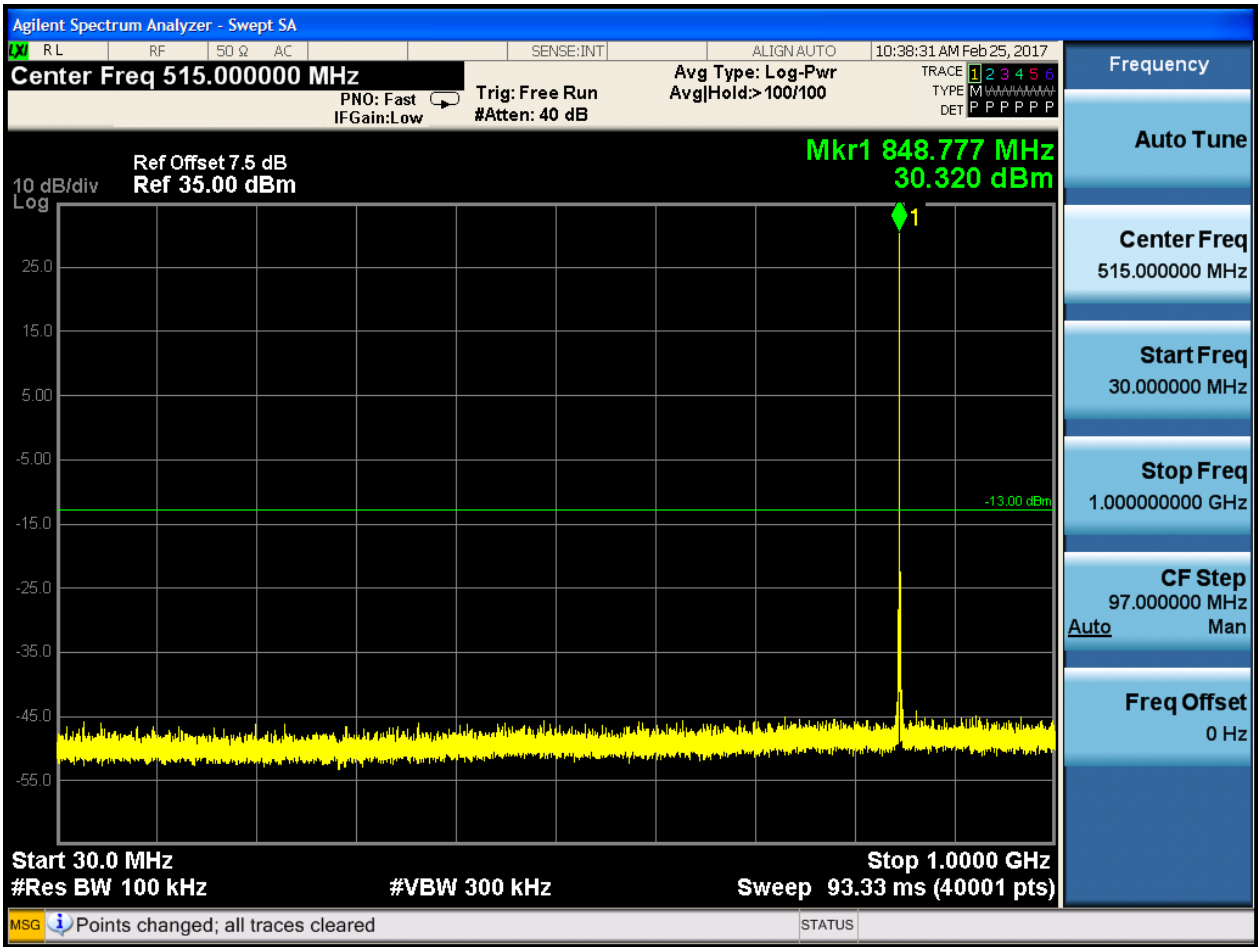




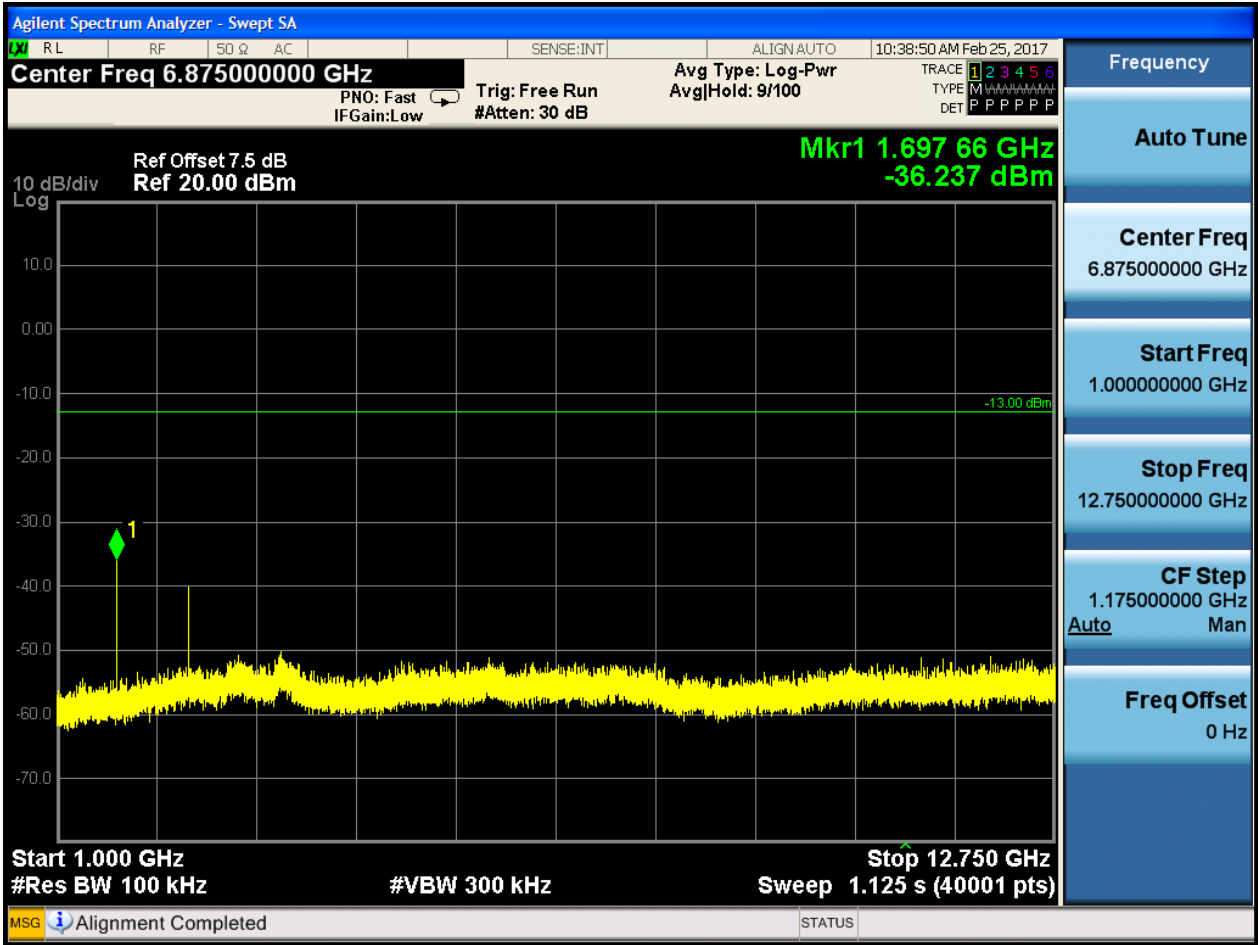
### 6.1.1.2.3 Test Channel = HCH



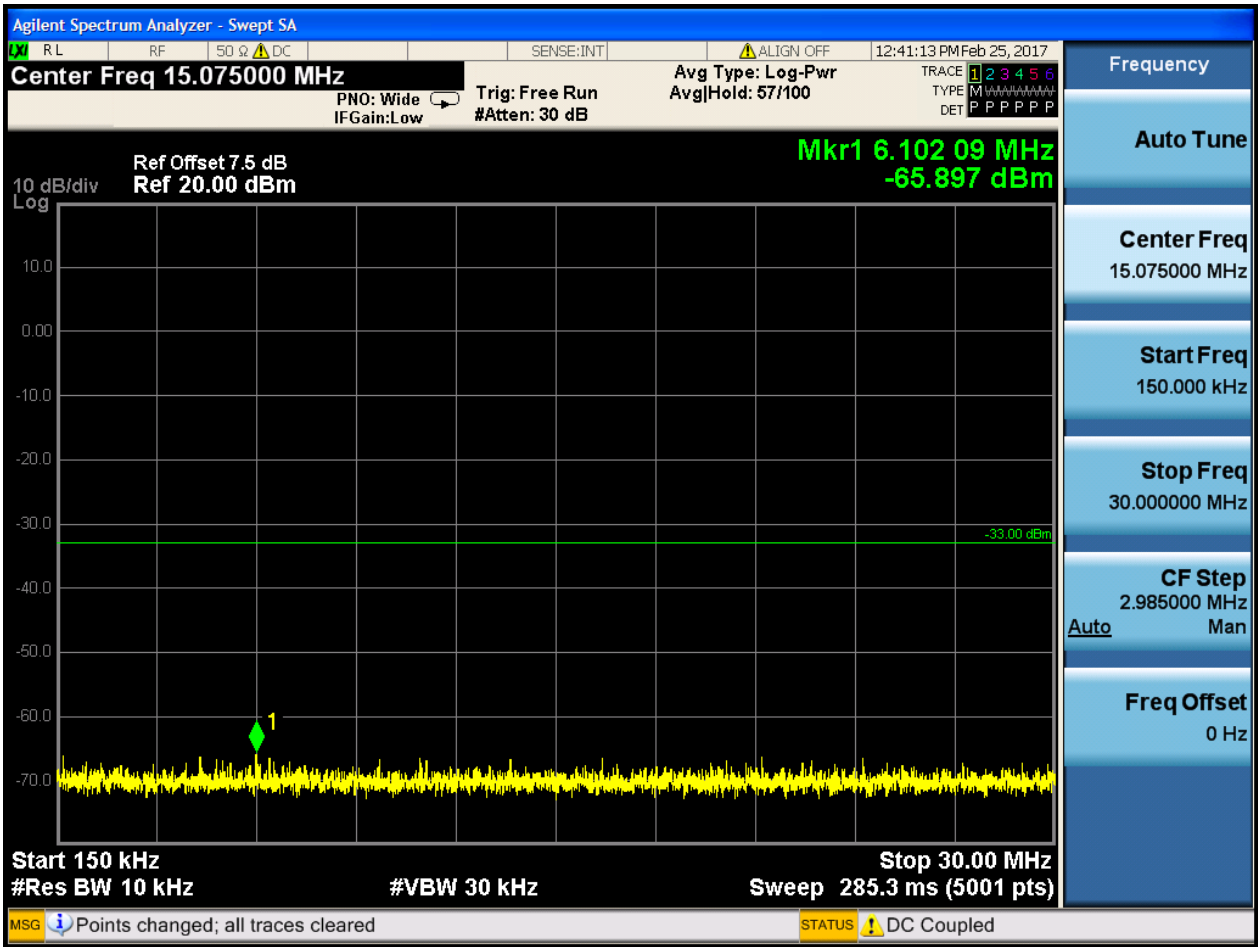


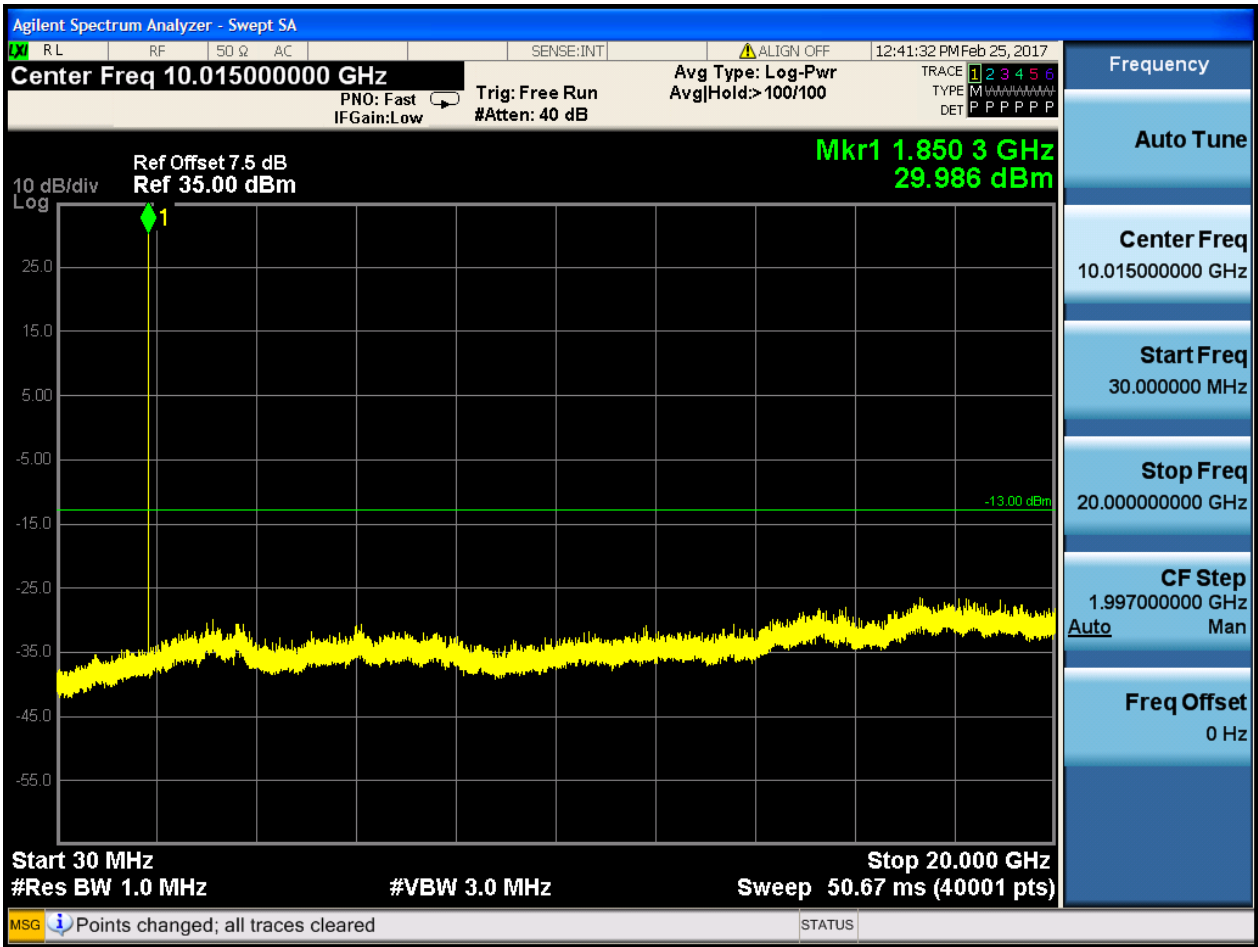






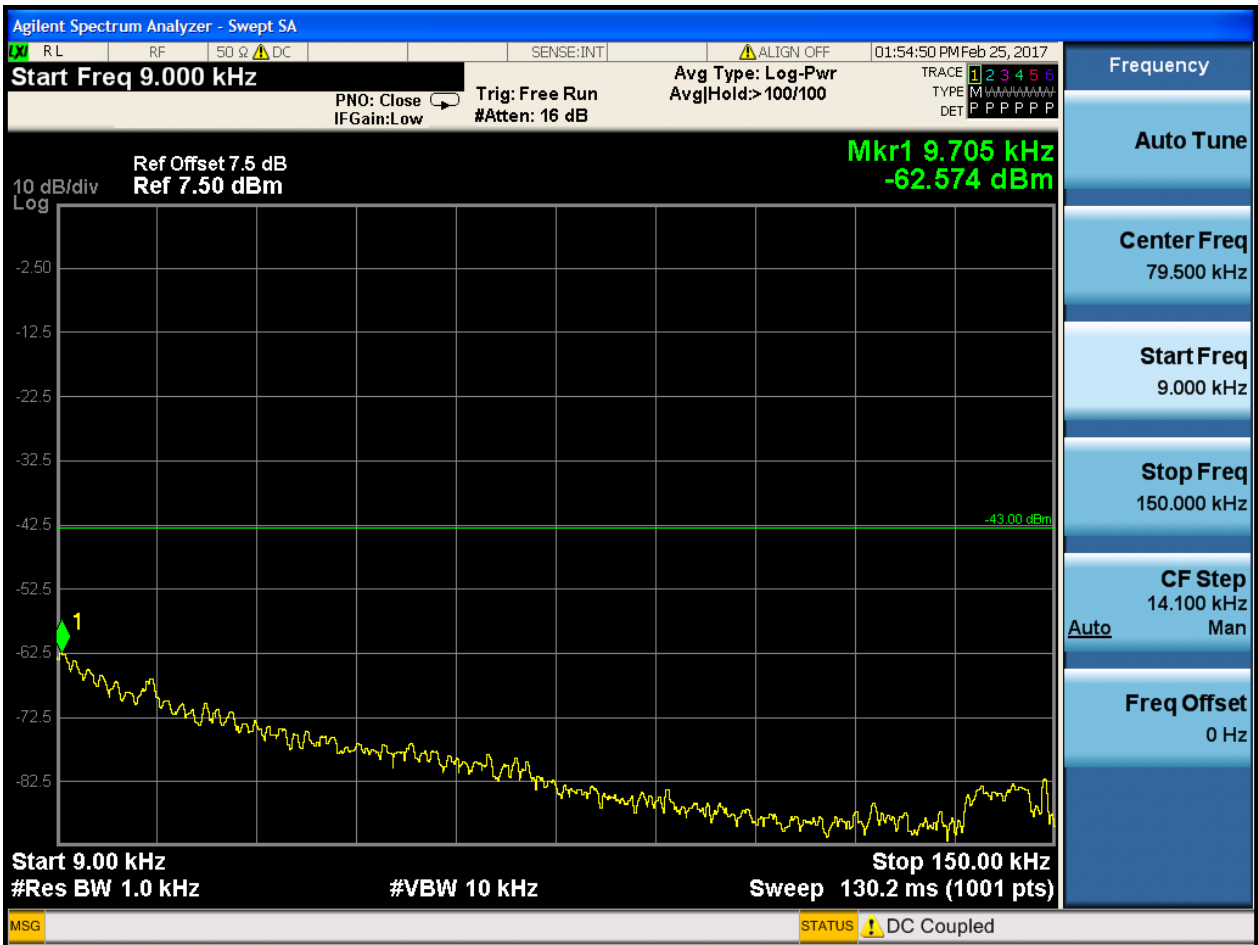


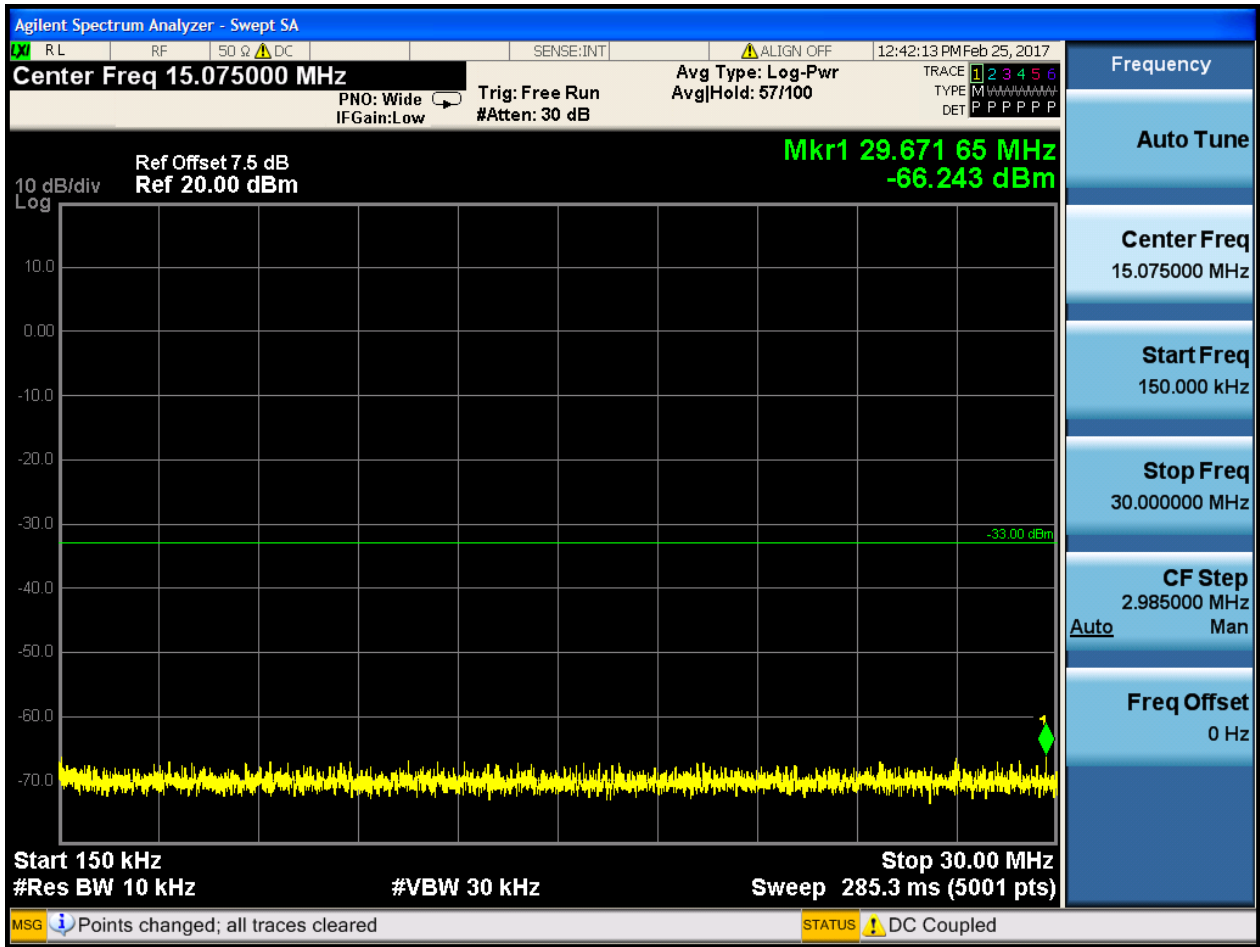


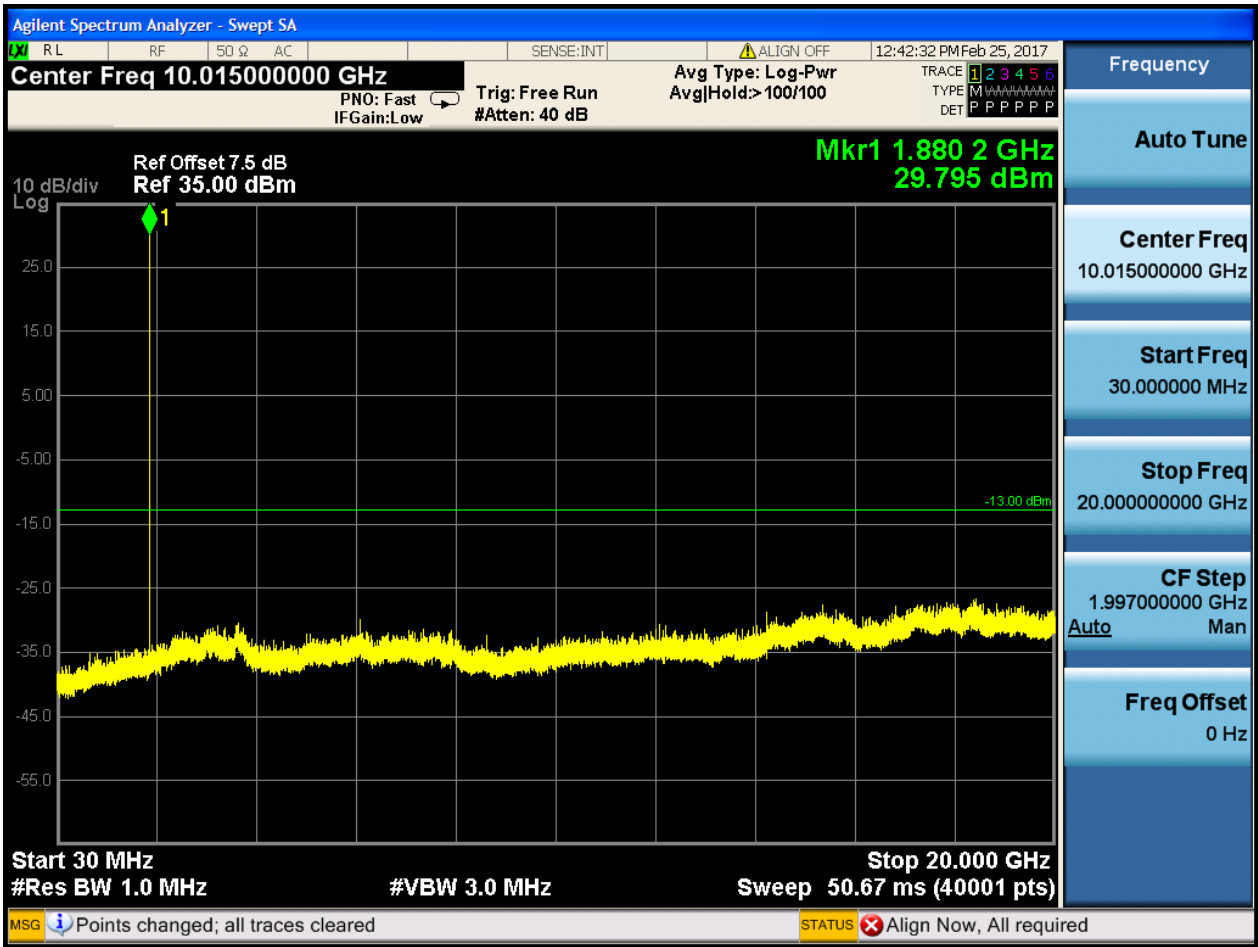




### 6.1.2.1.2 Test Channel = MCH

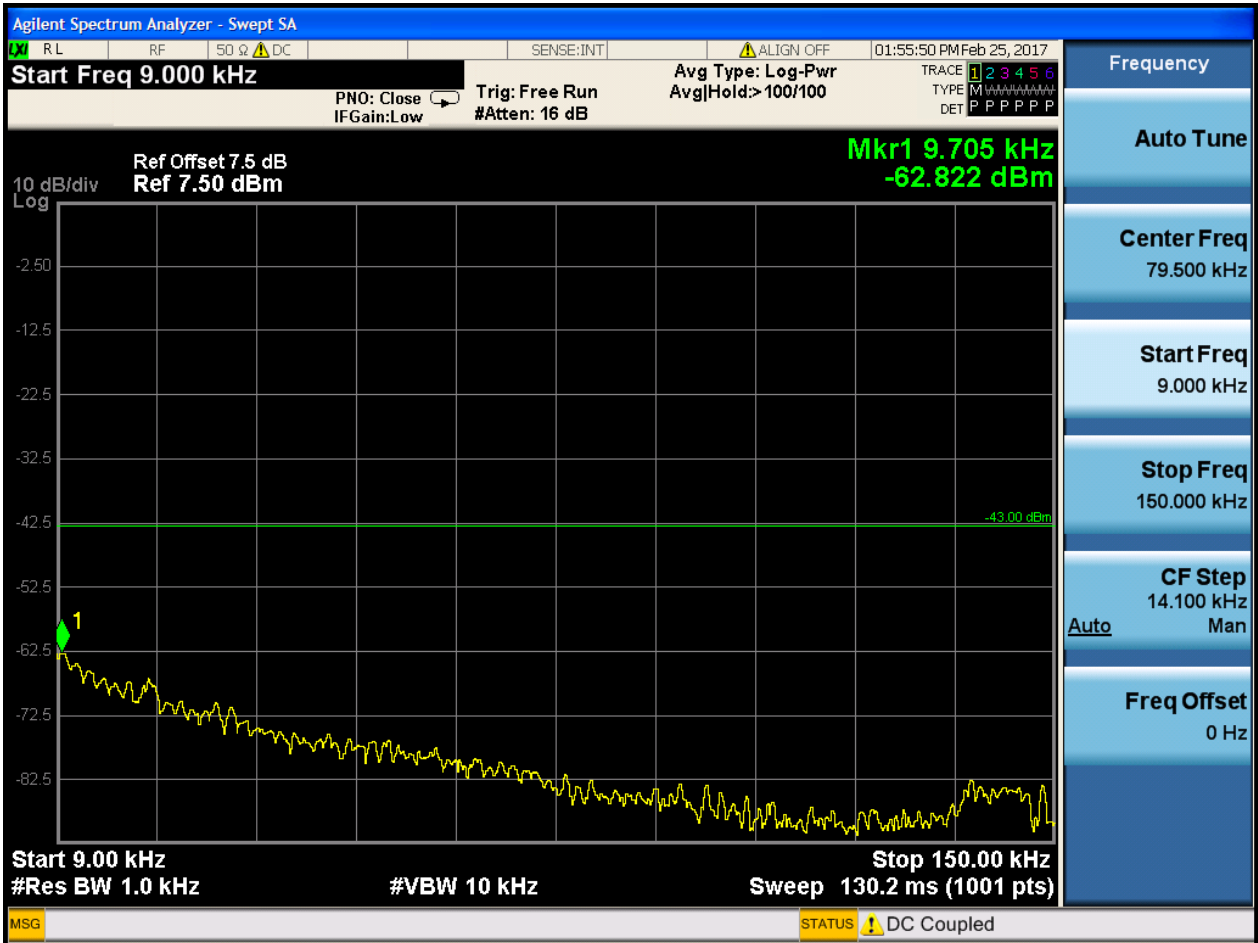






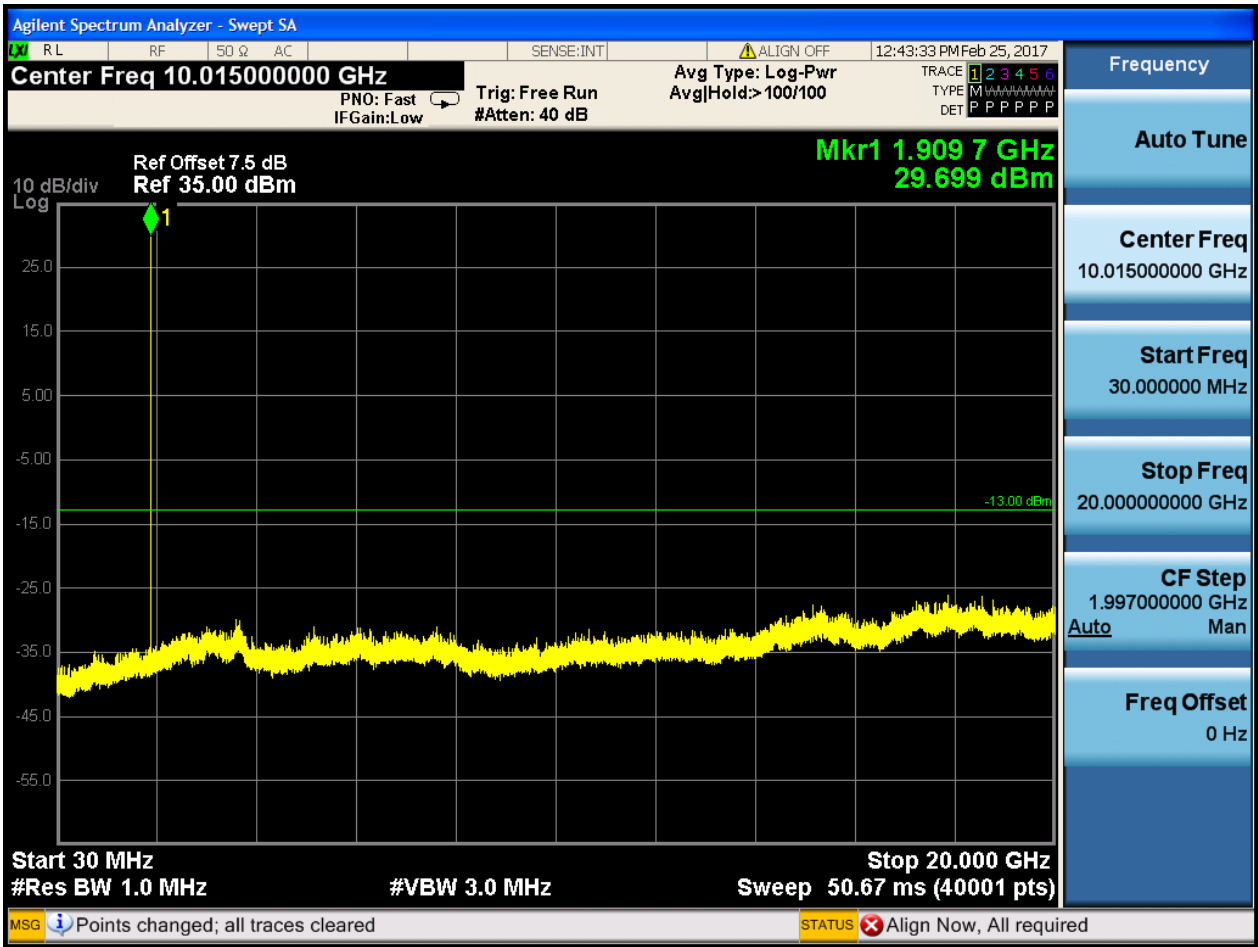


### 6.1.2.1.3 Test Channel = HCH





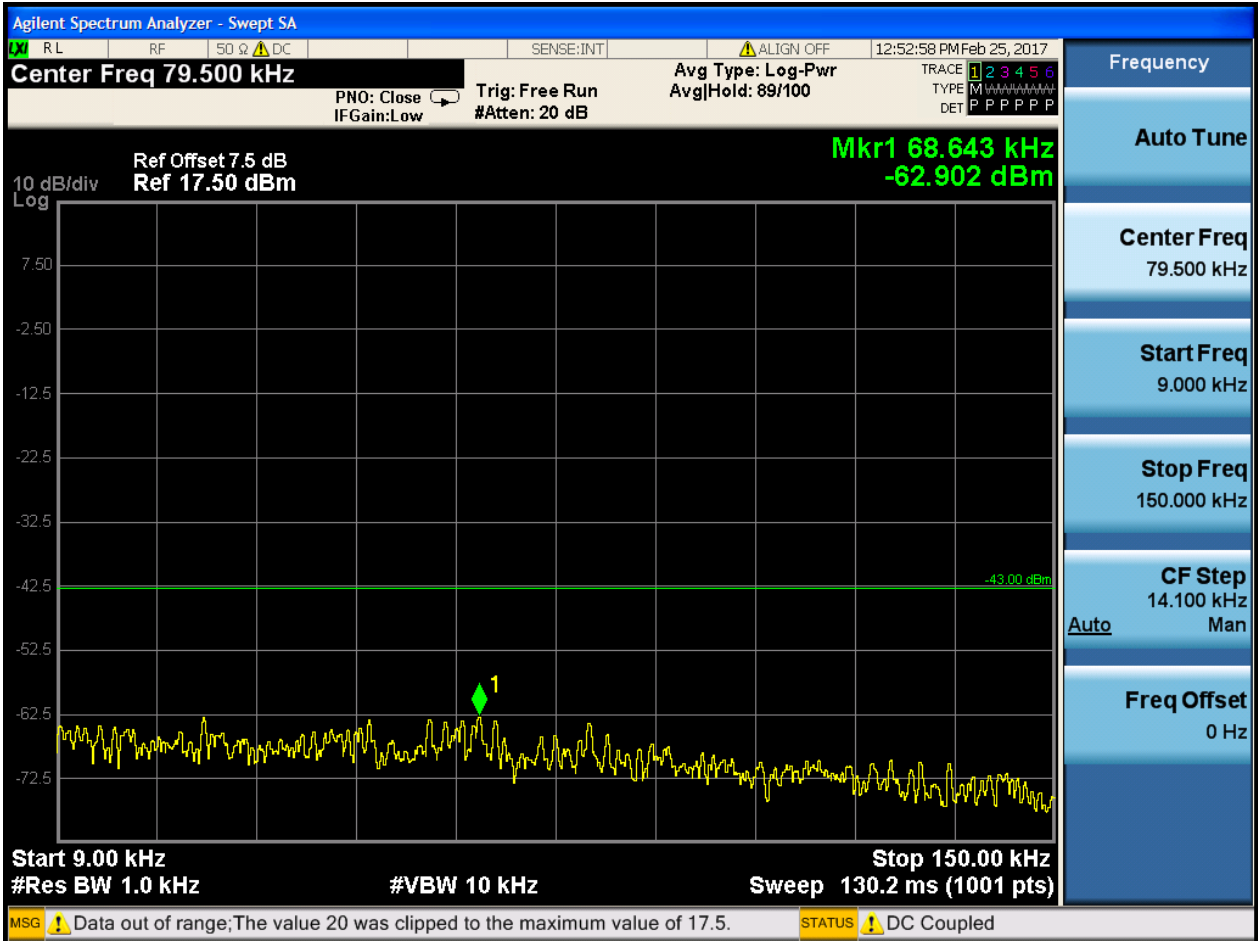


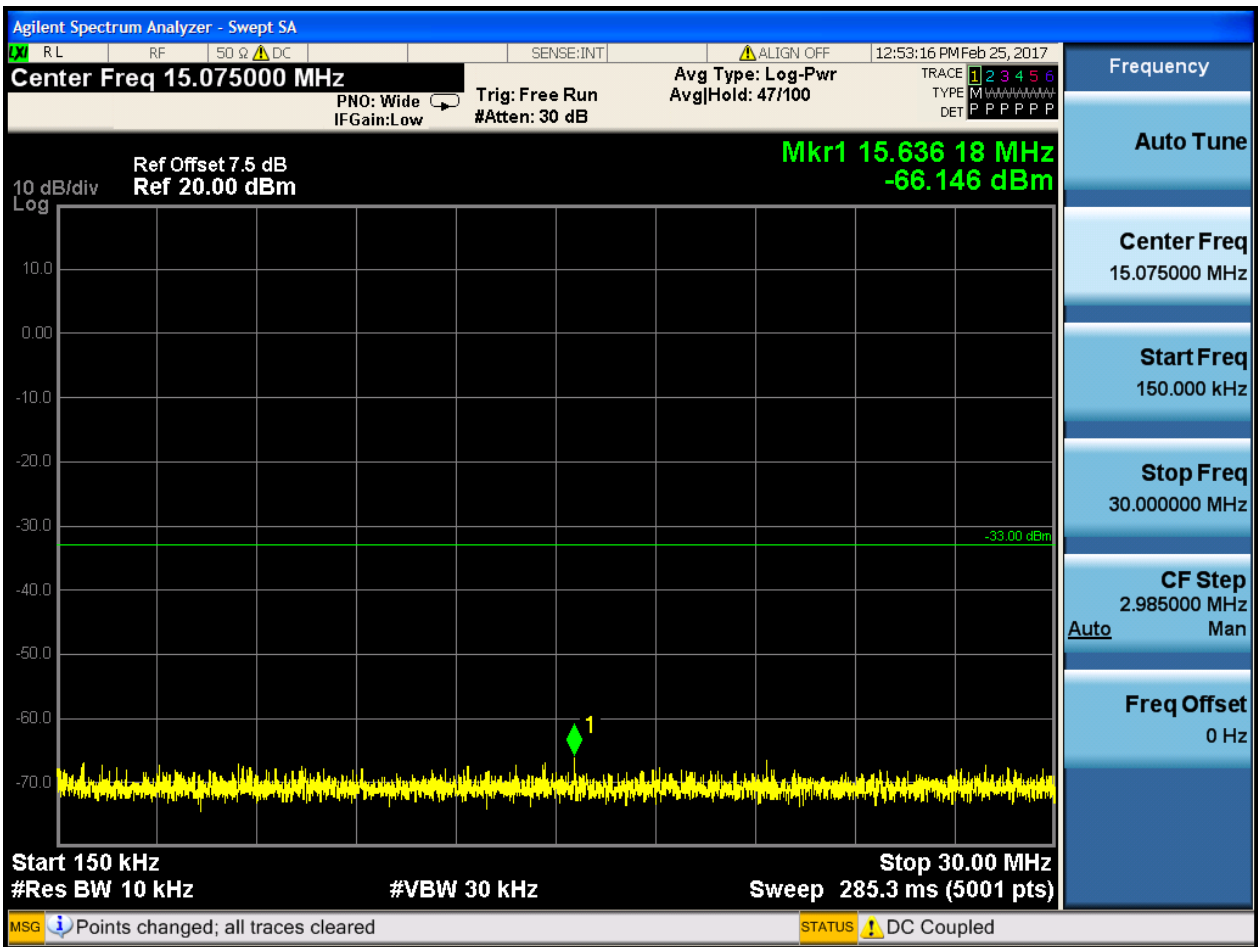


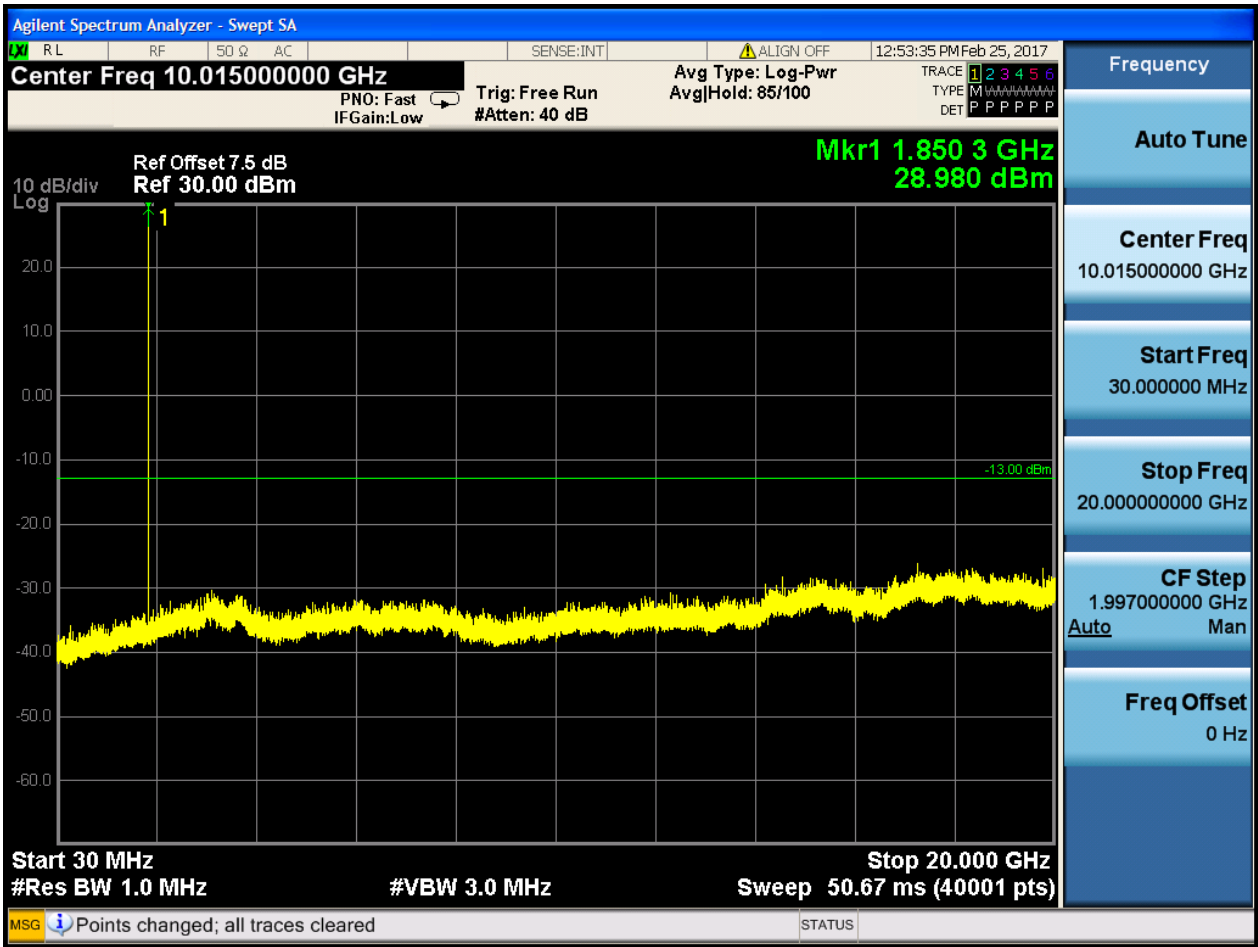


### 6.1.2.2 Test Mode = GSM/TM2

#### 6.1.2.2.1 Test Channel = LCH

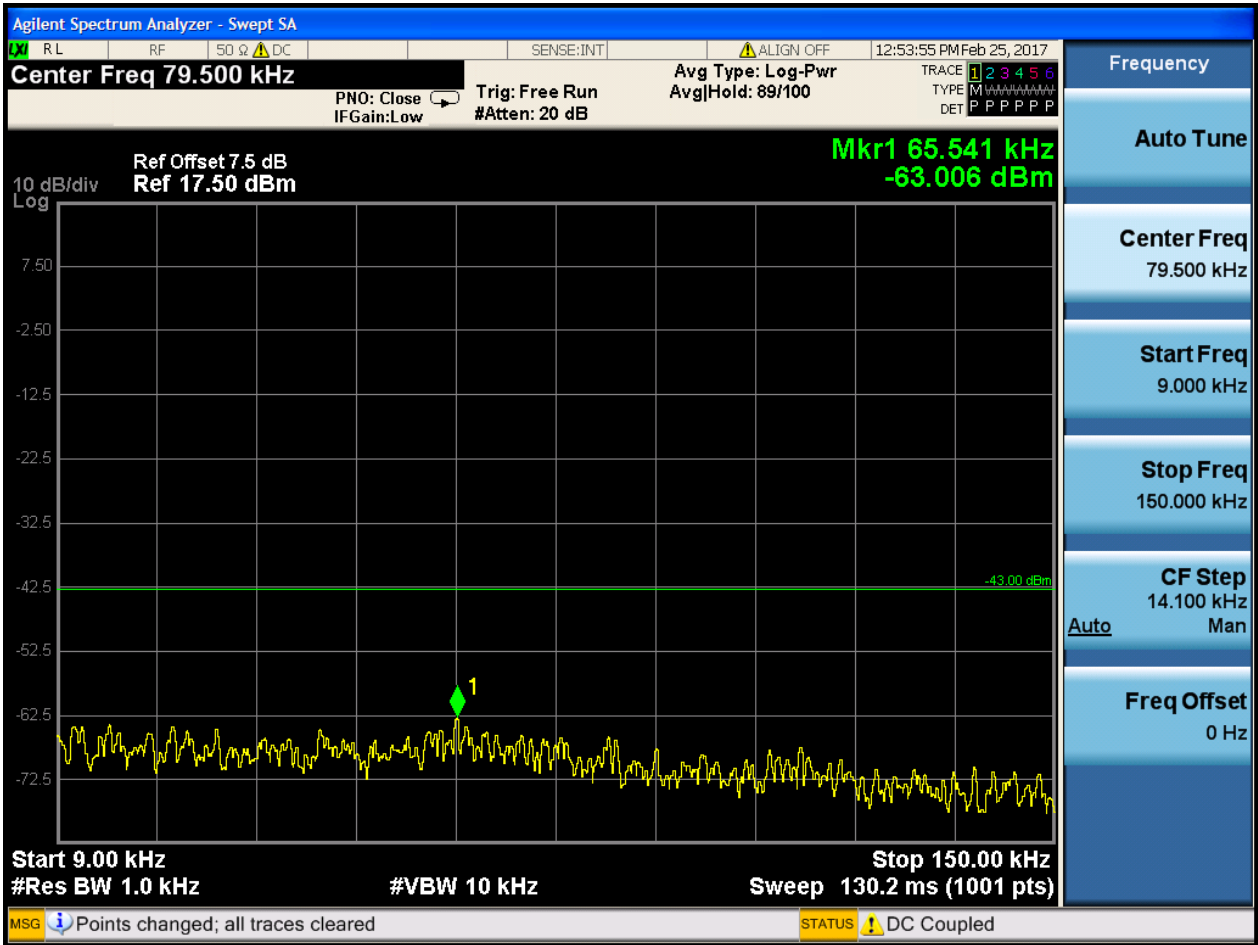


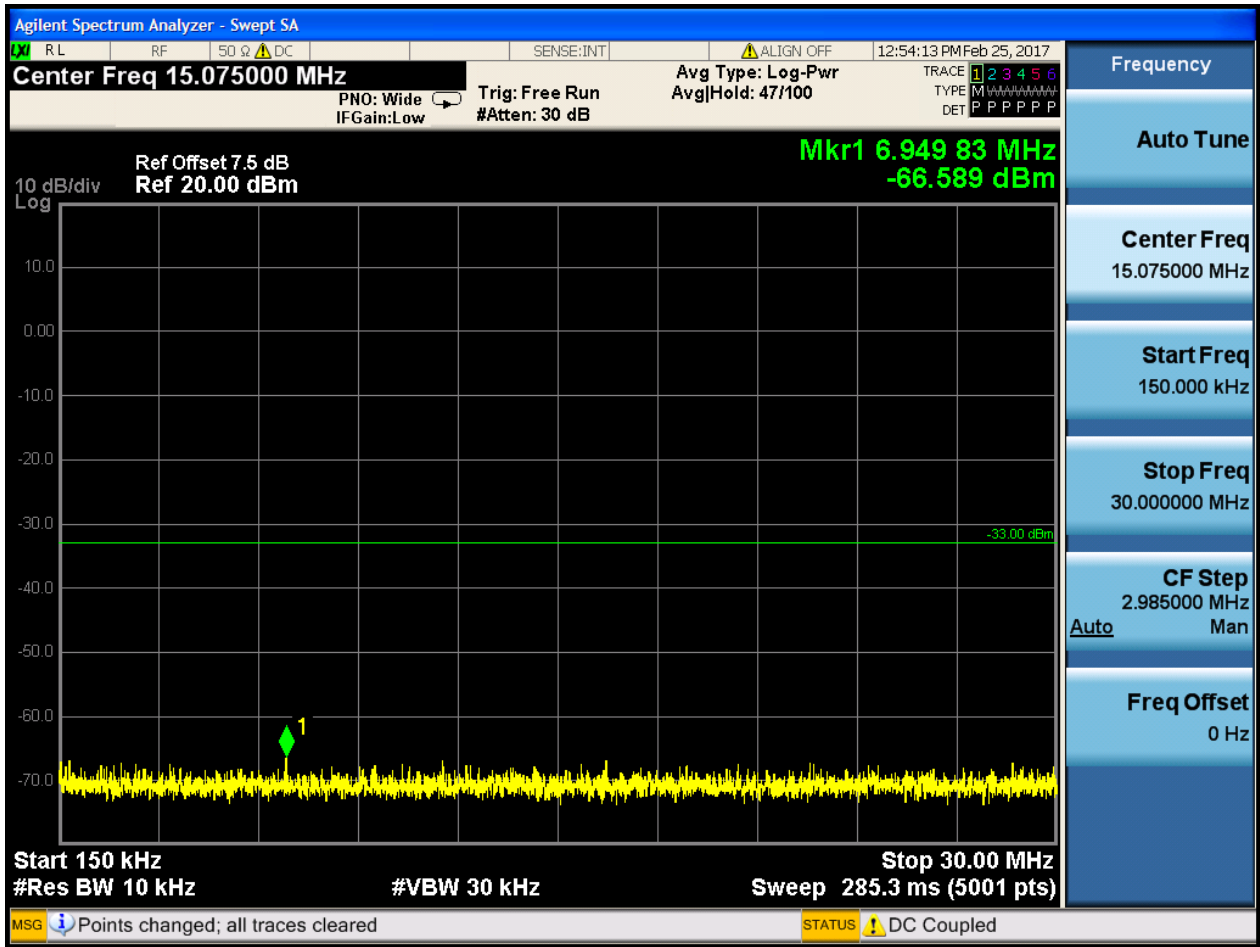






### 6.1.2.2.2 Test Channel = MCH



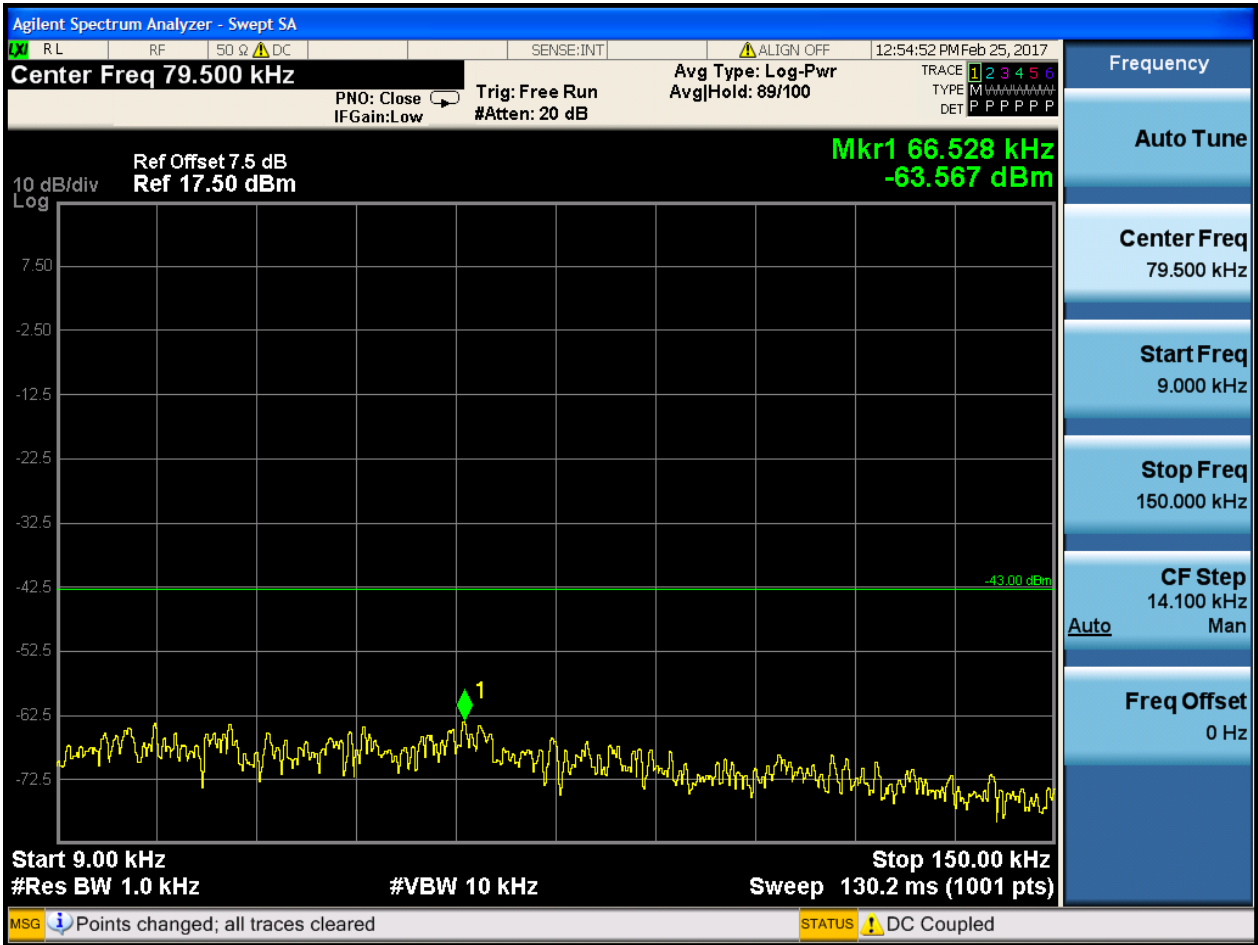


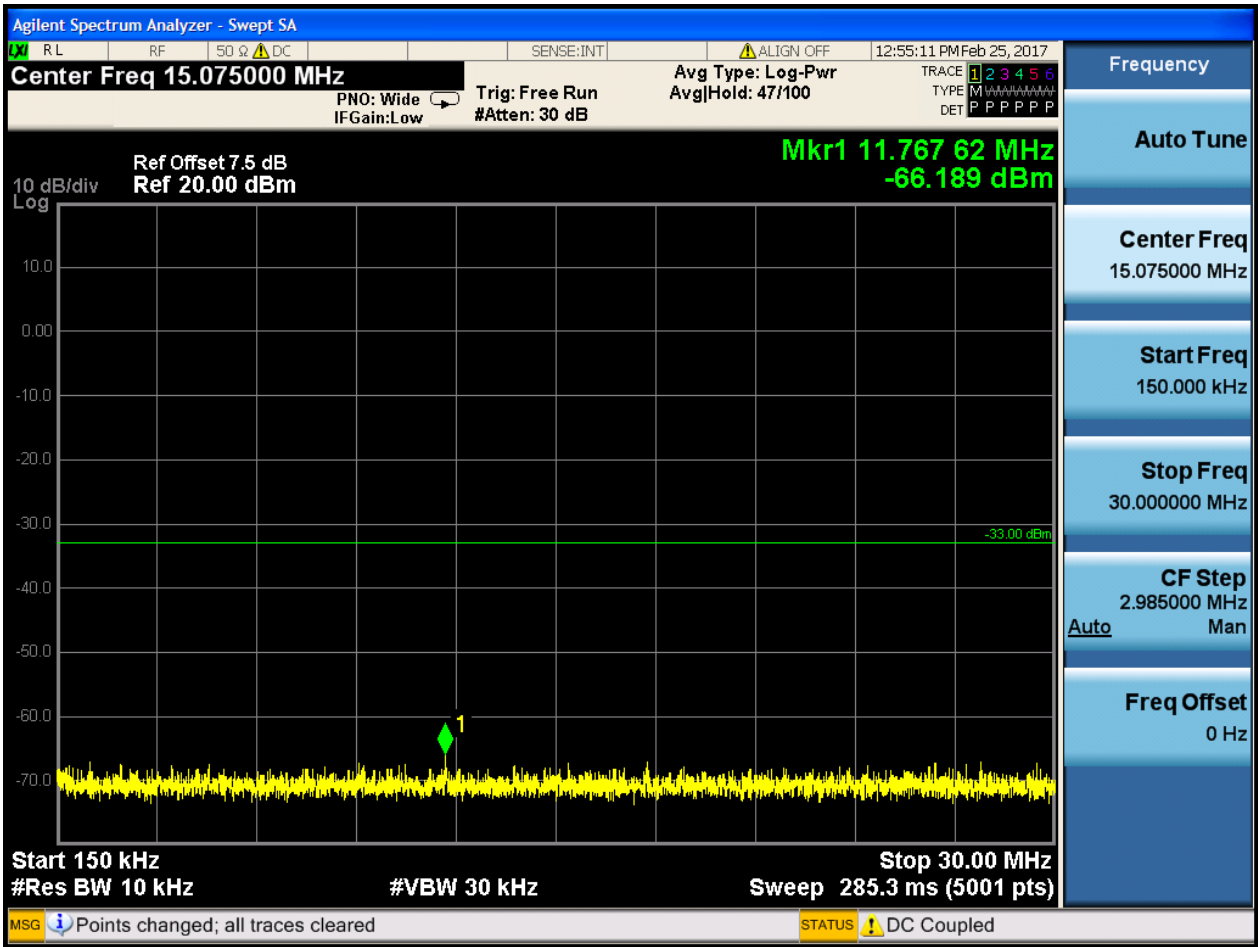






### 6.1.2.2.3 Test Channel = HCH







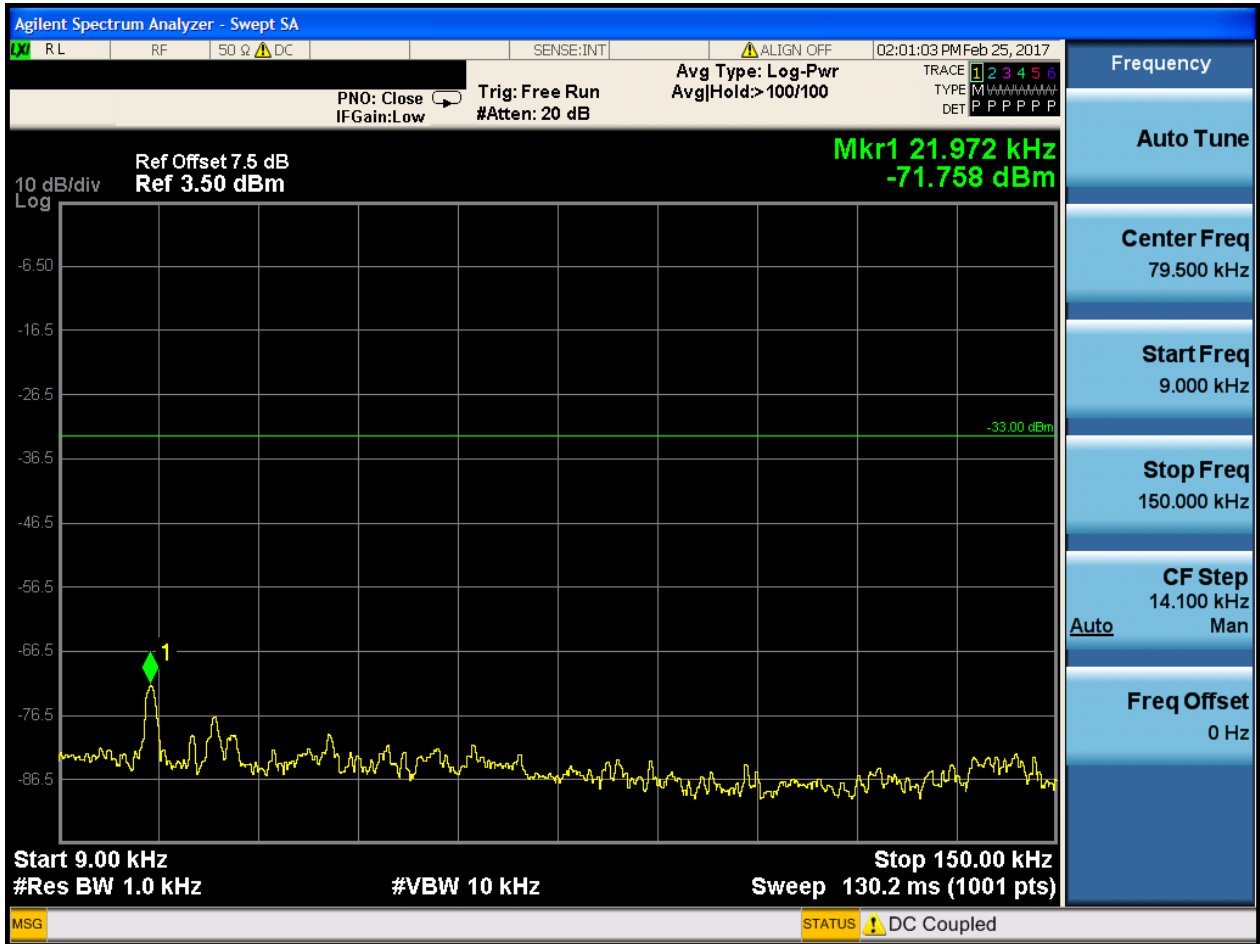


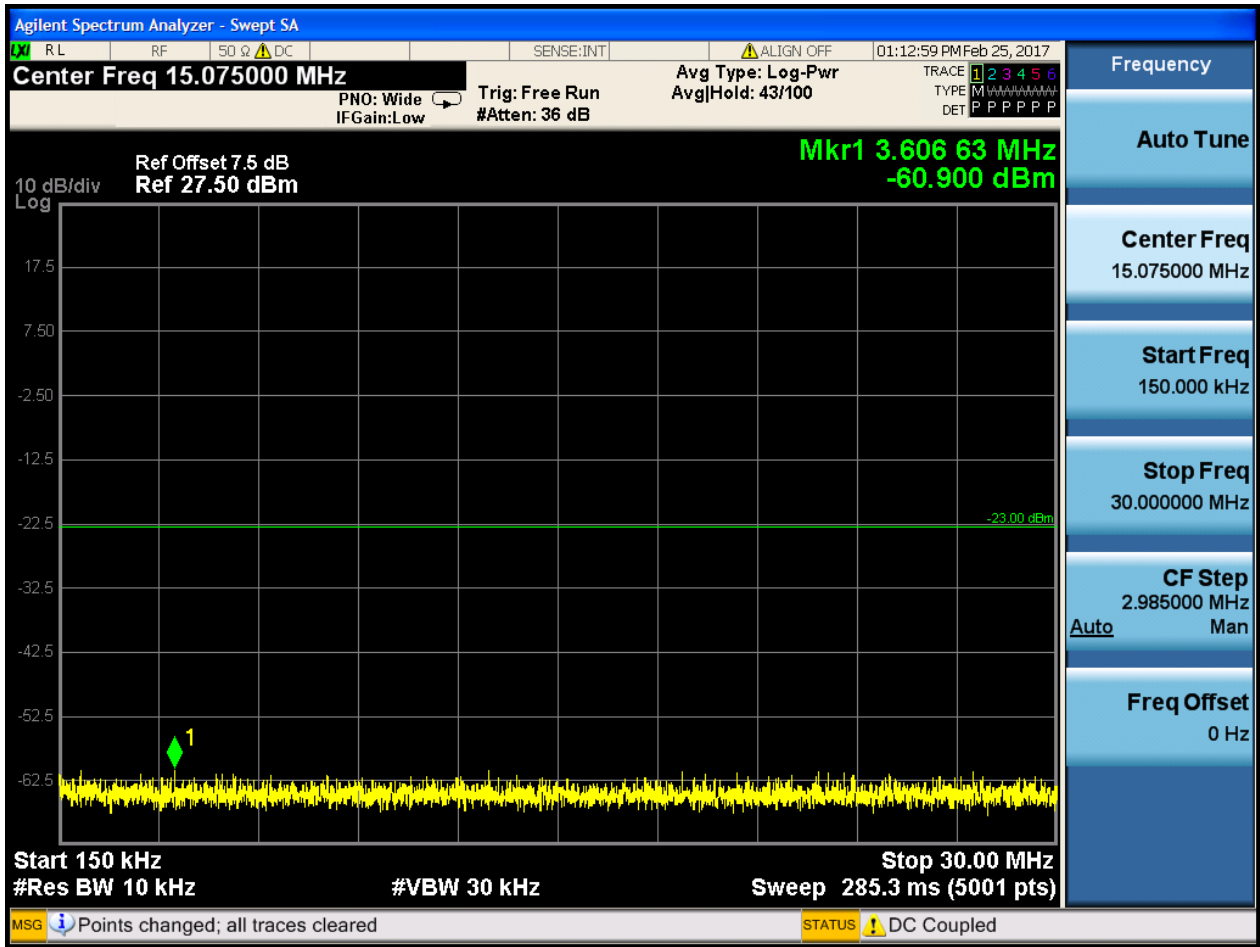
## 6.2 For UMTS

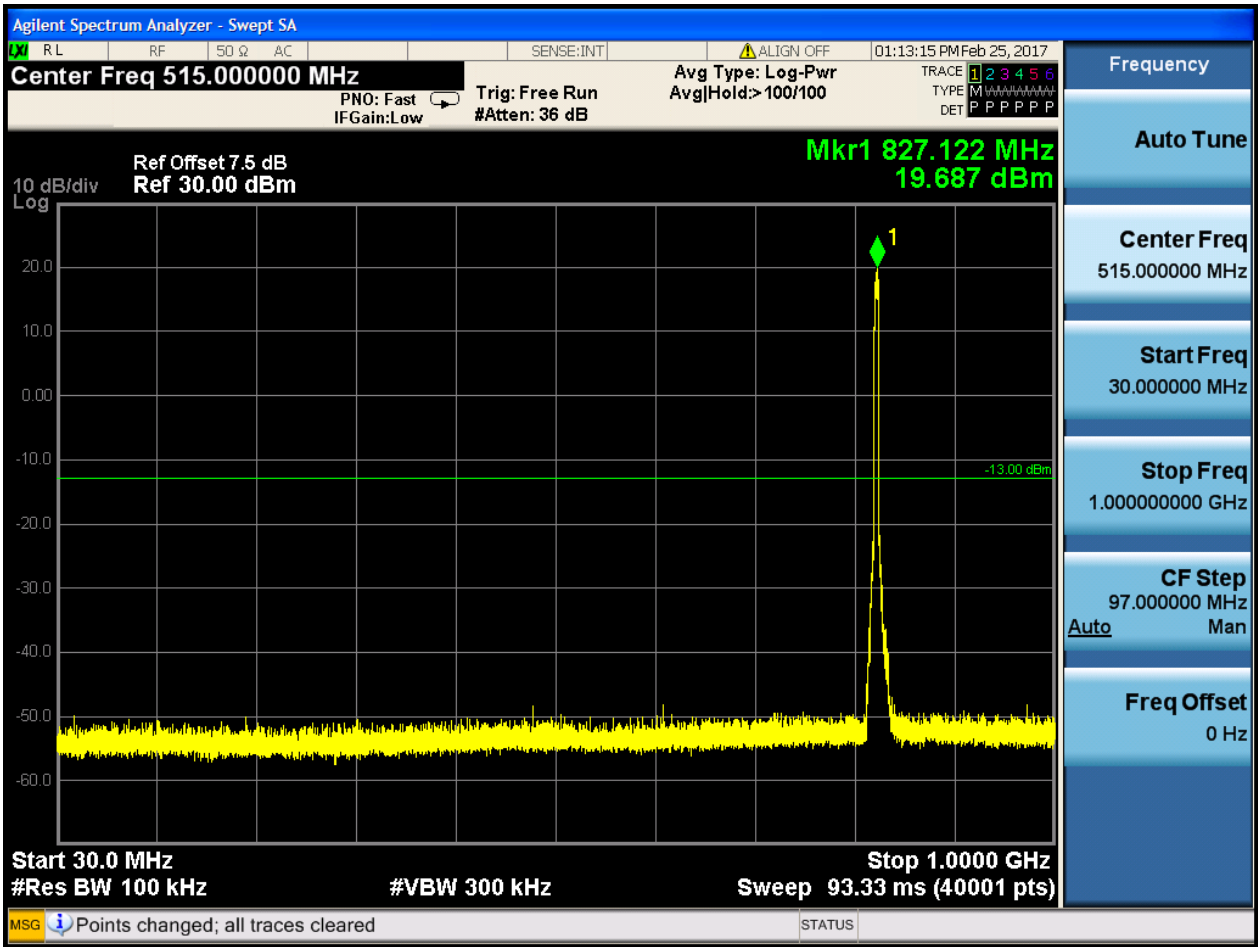
### 6.2.1 Test Band = WCDMA850

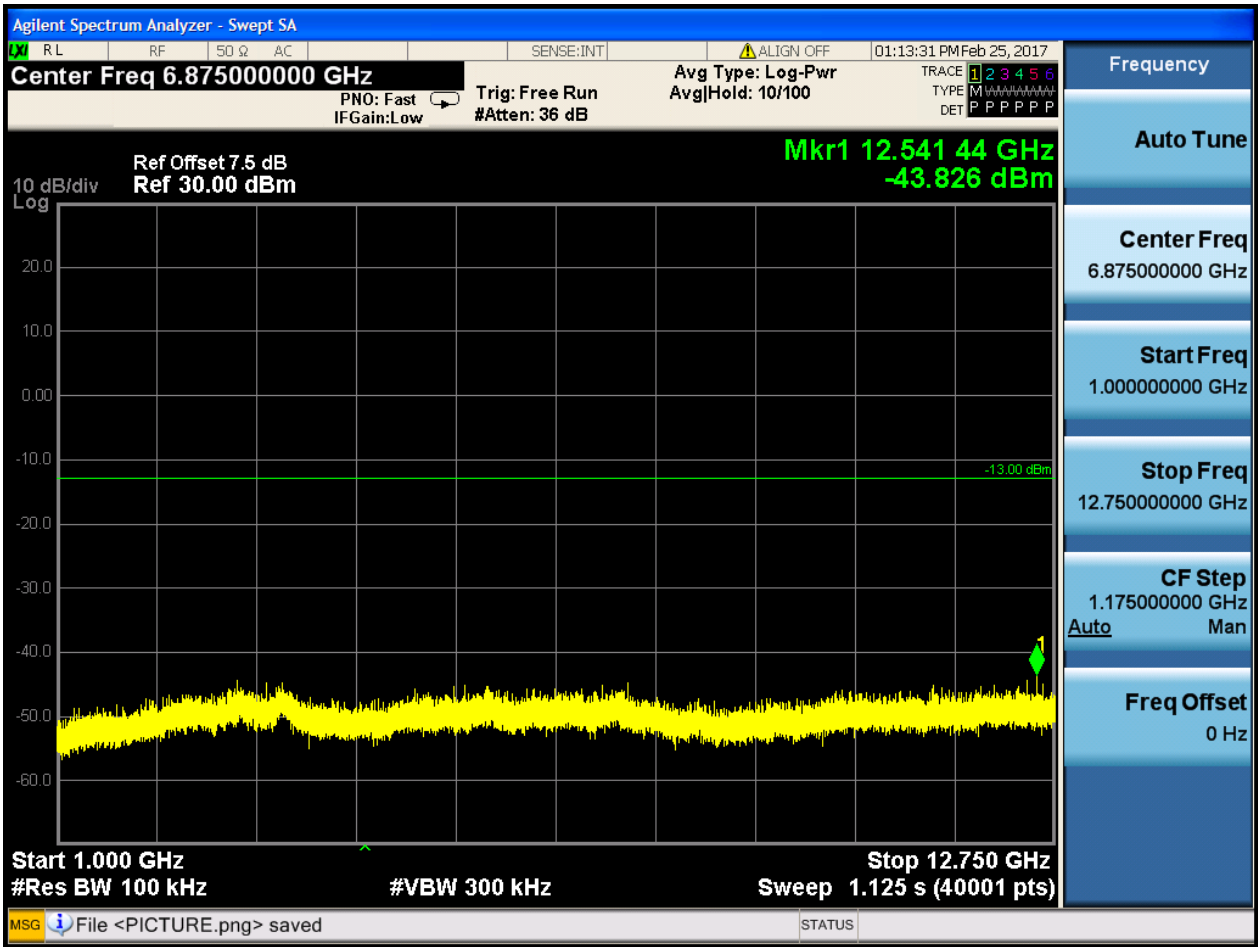
#### 6.2.1.1 Test Mode = UMTS/TM1

##### 6.2.1.1.1 Test Channel = LCH



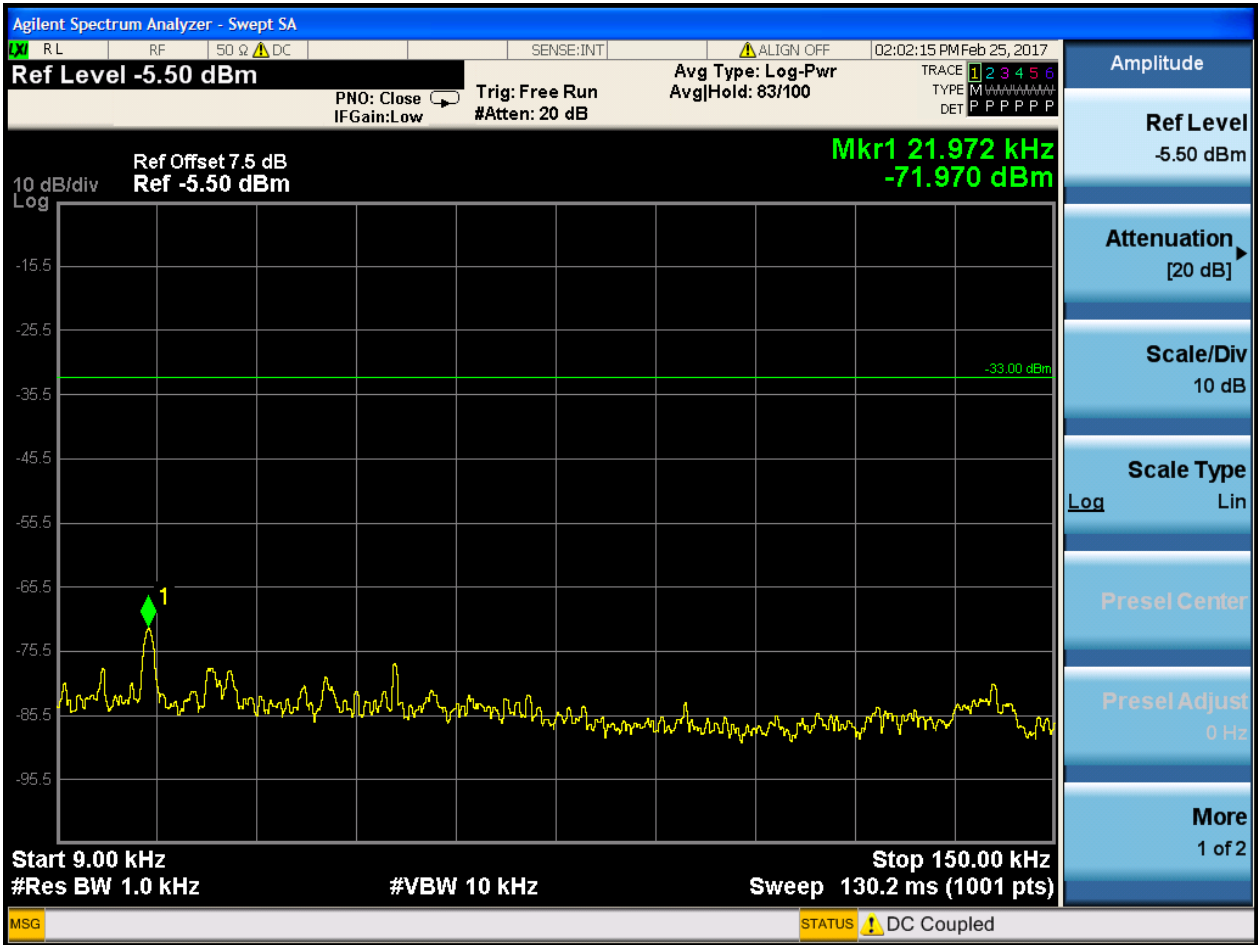




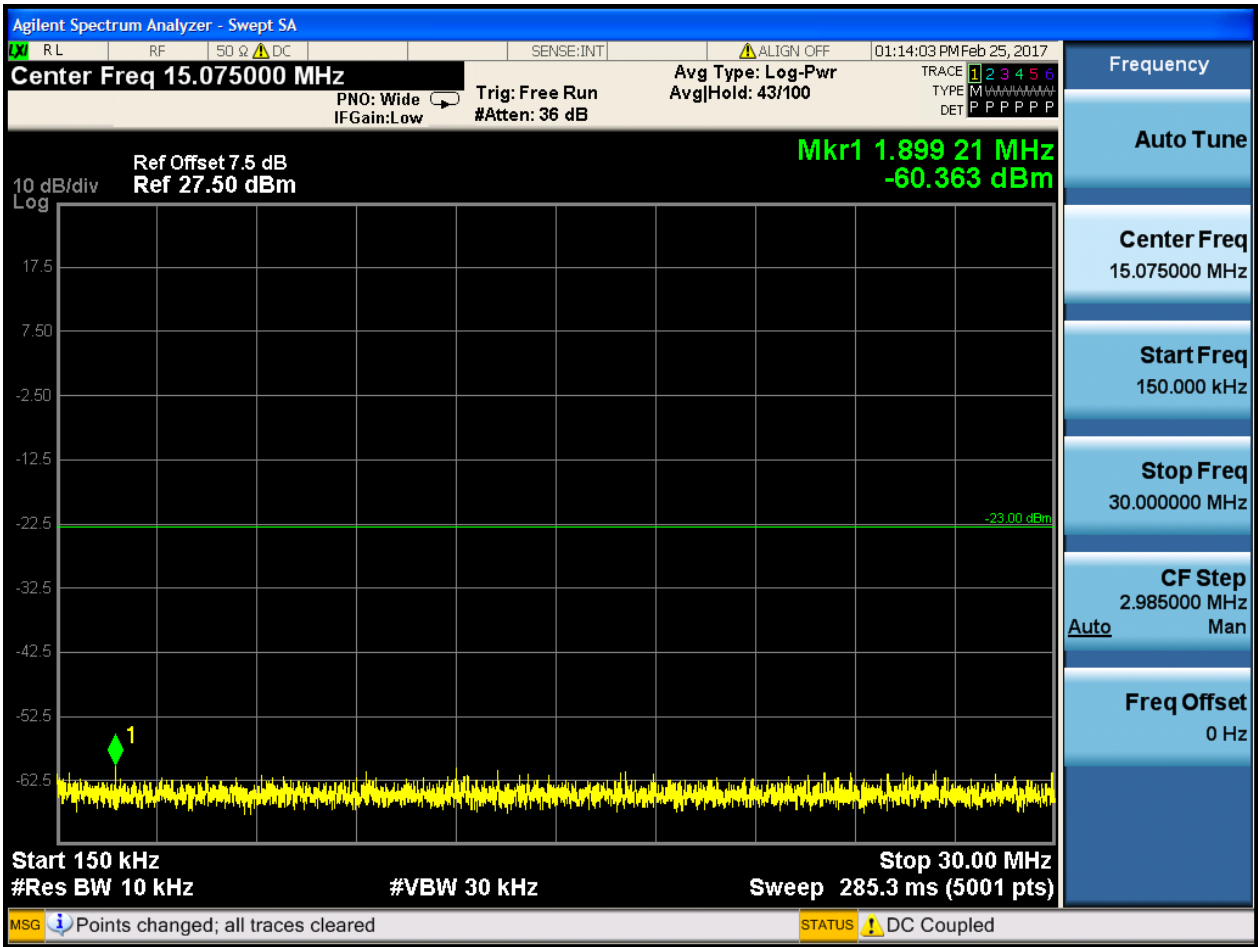


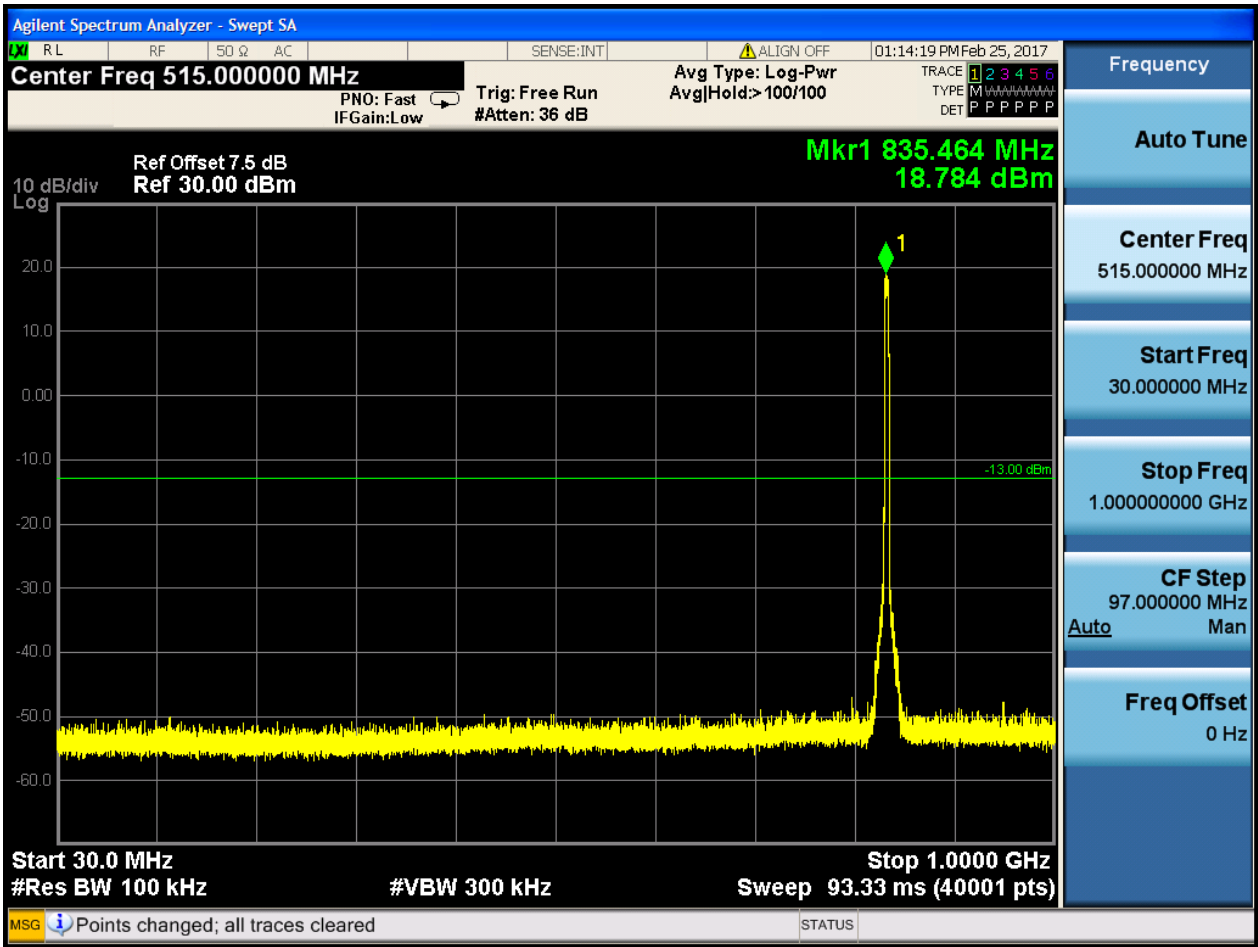


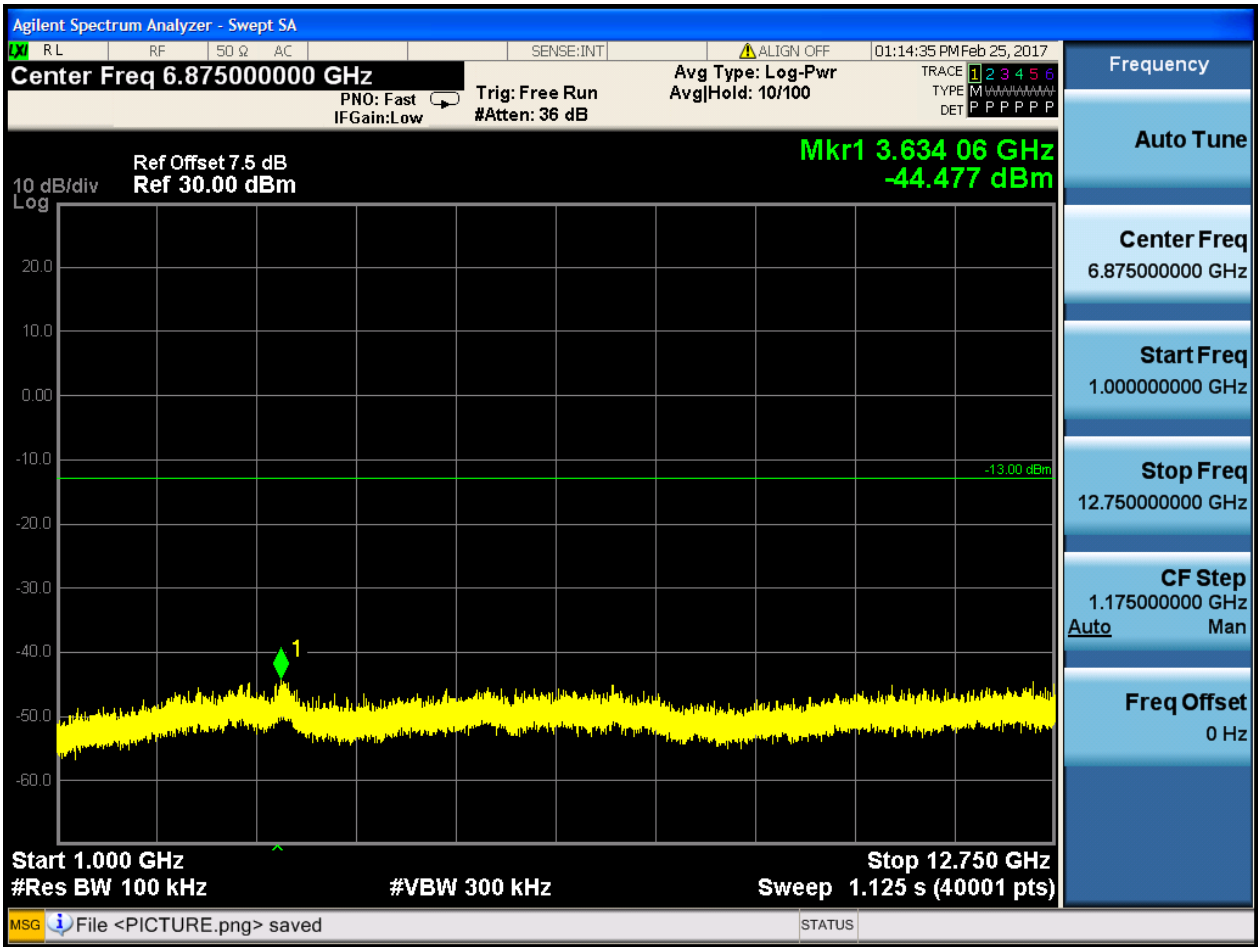
### 6.2.1.1.2 Test Channel = MCH





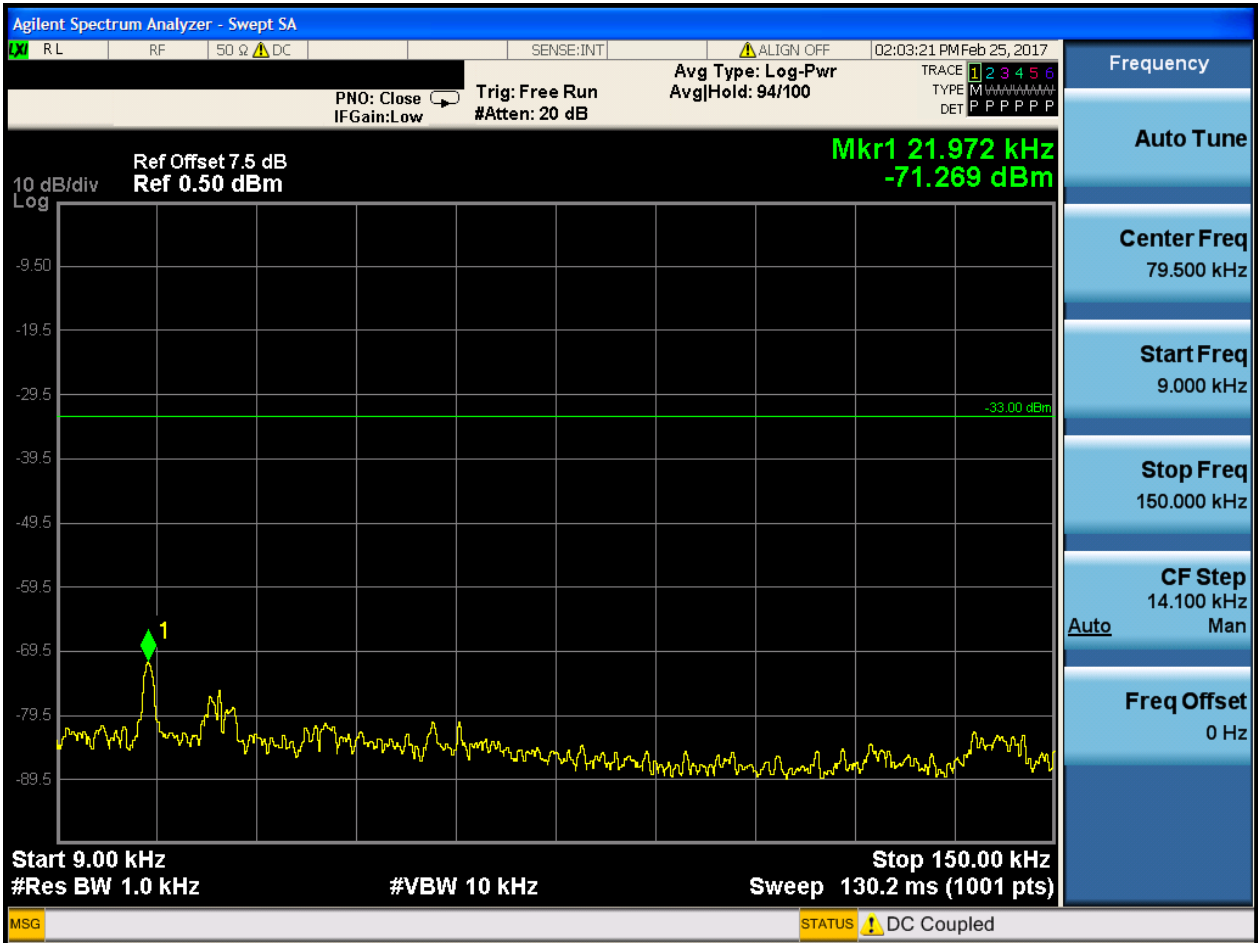






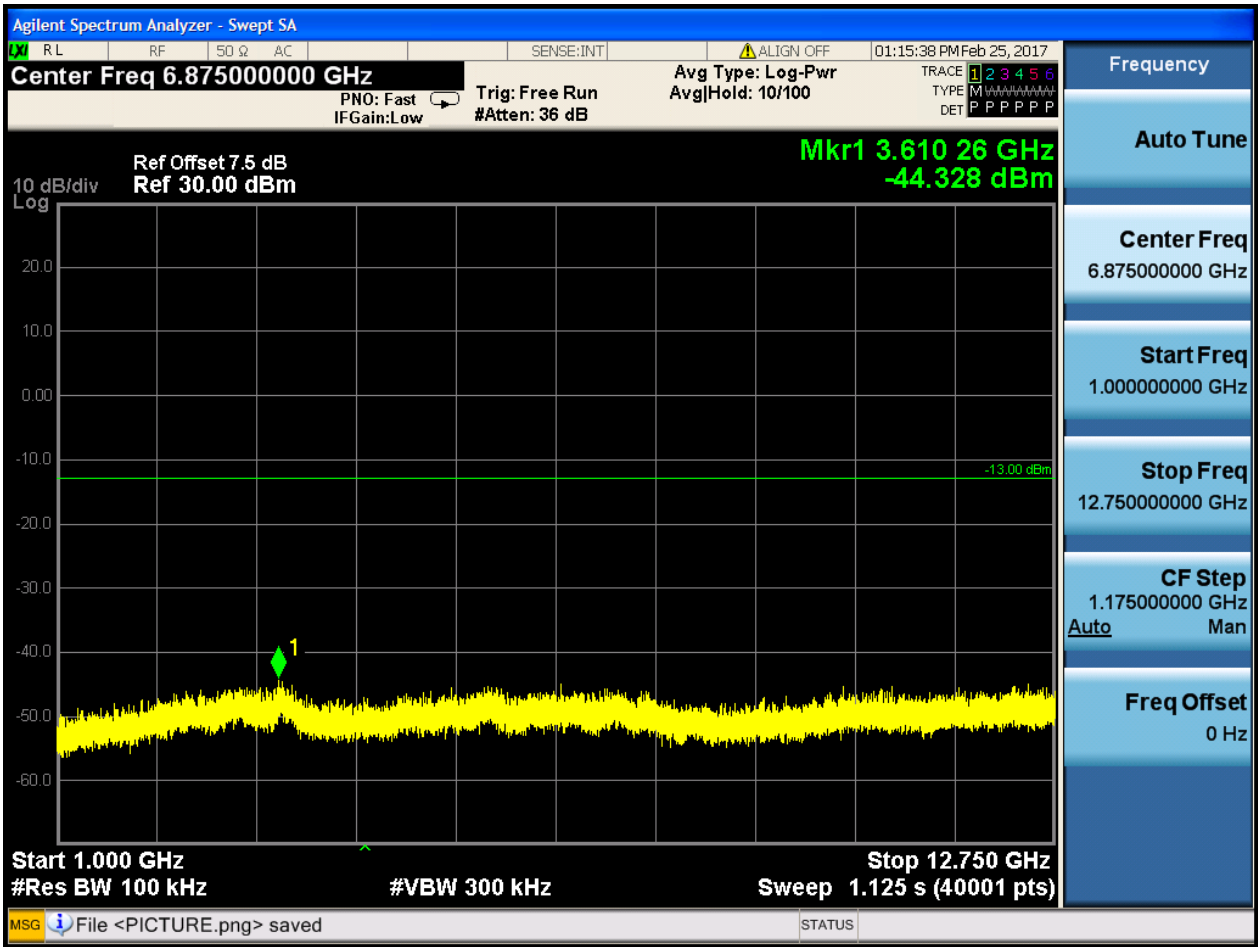


6.2.1.1.3 Test Channel = HCH







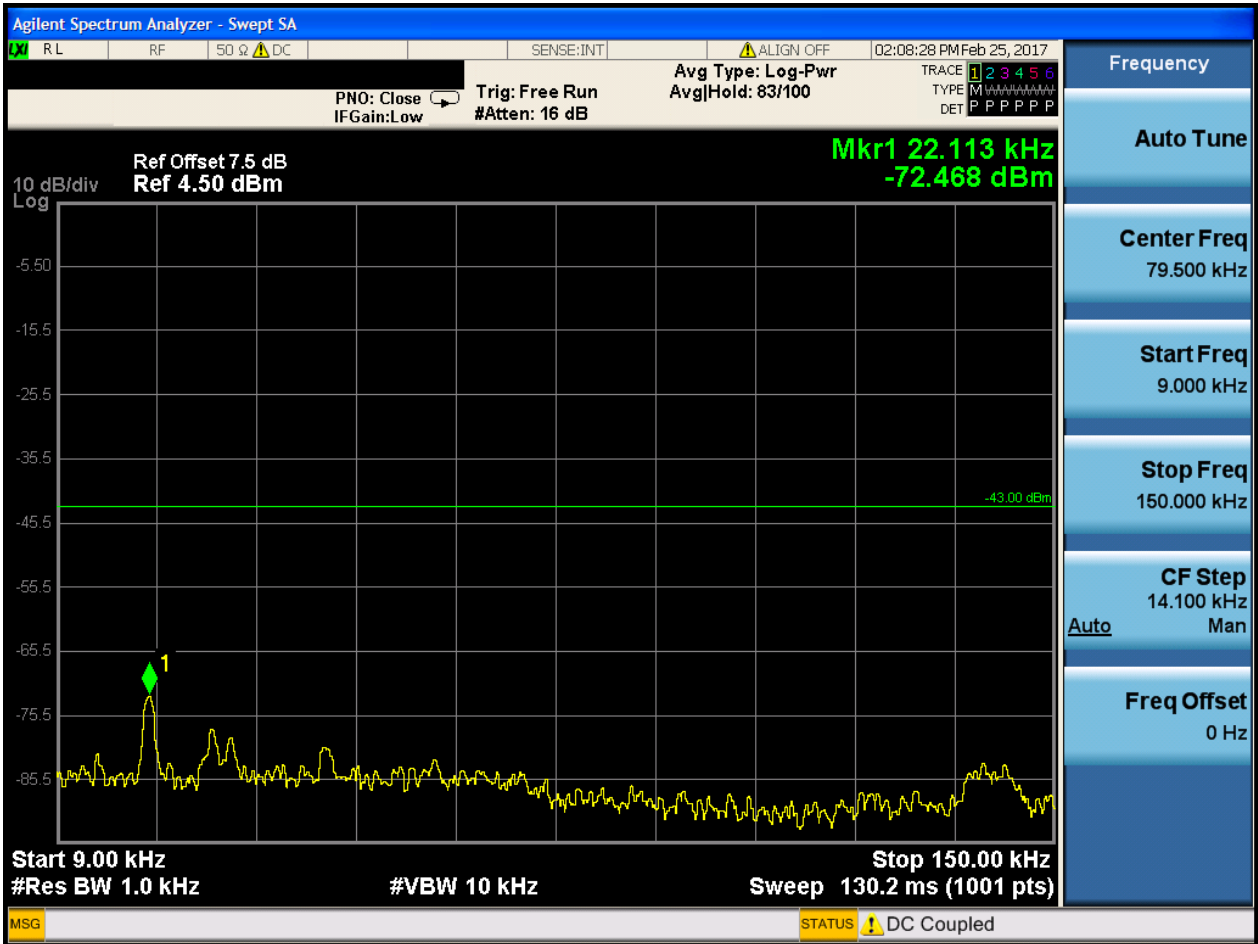




6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH



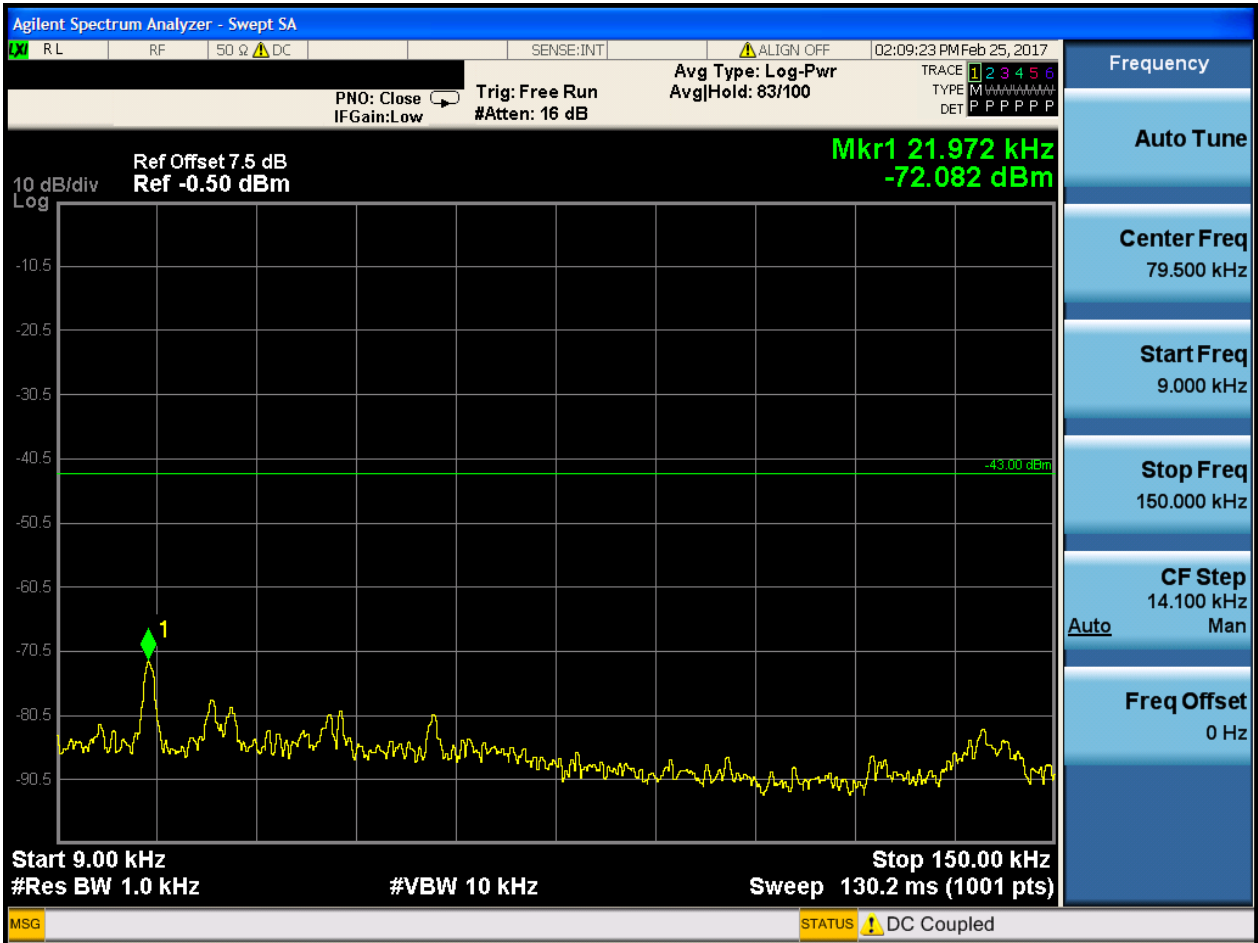


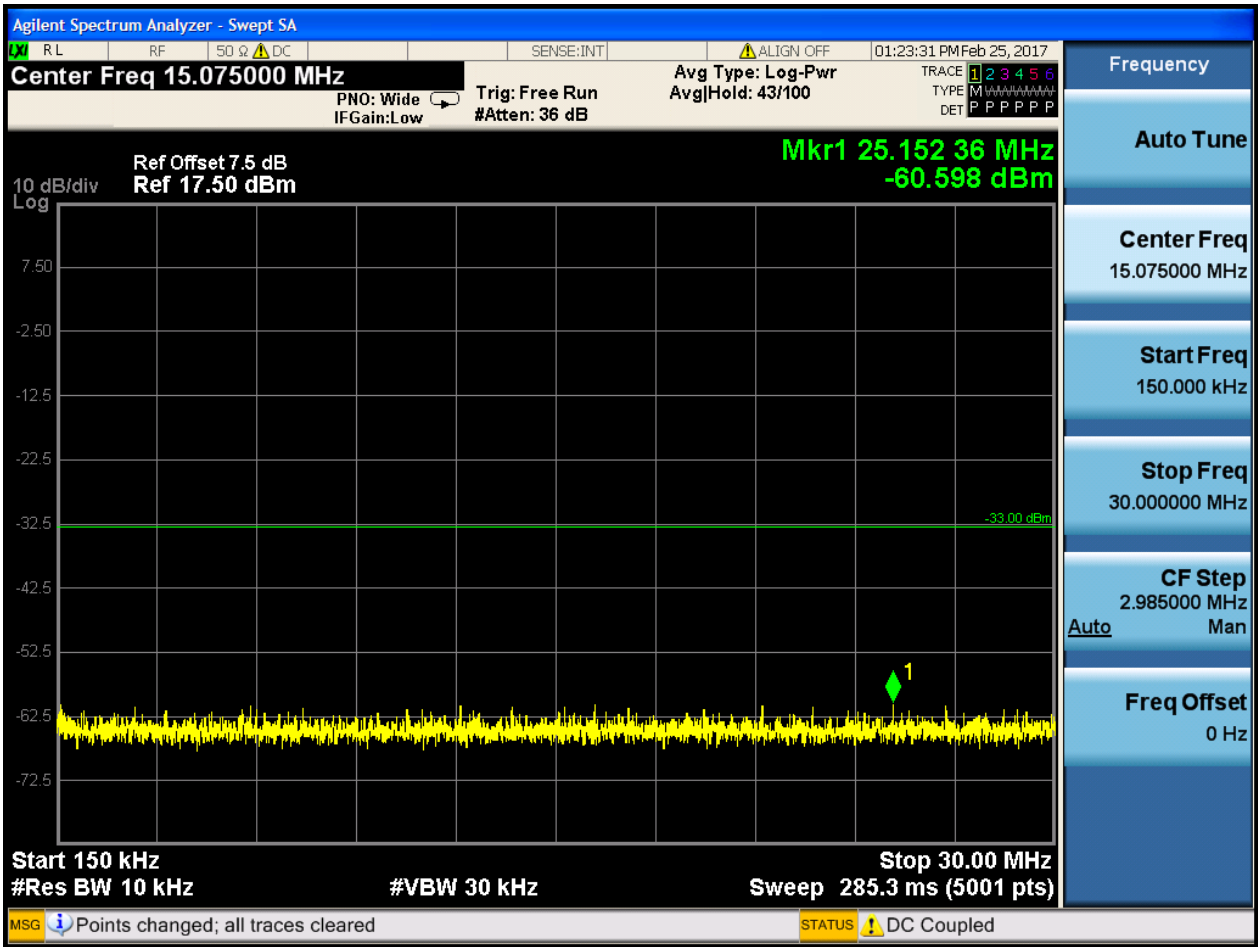






6.2.2.1.2 Test Channel = MCH

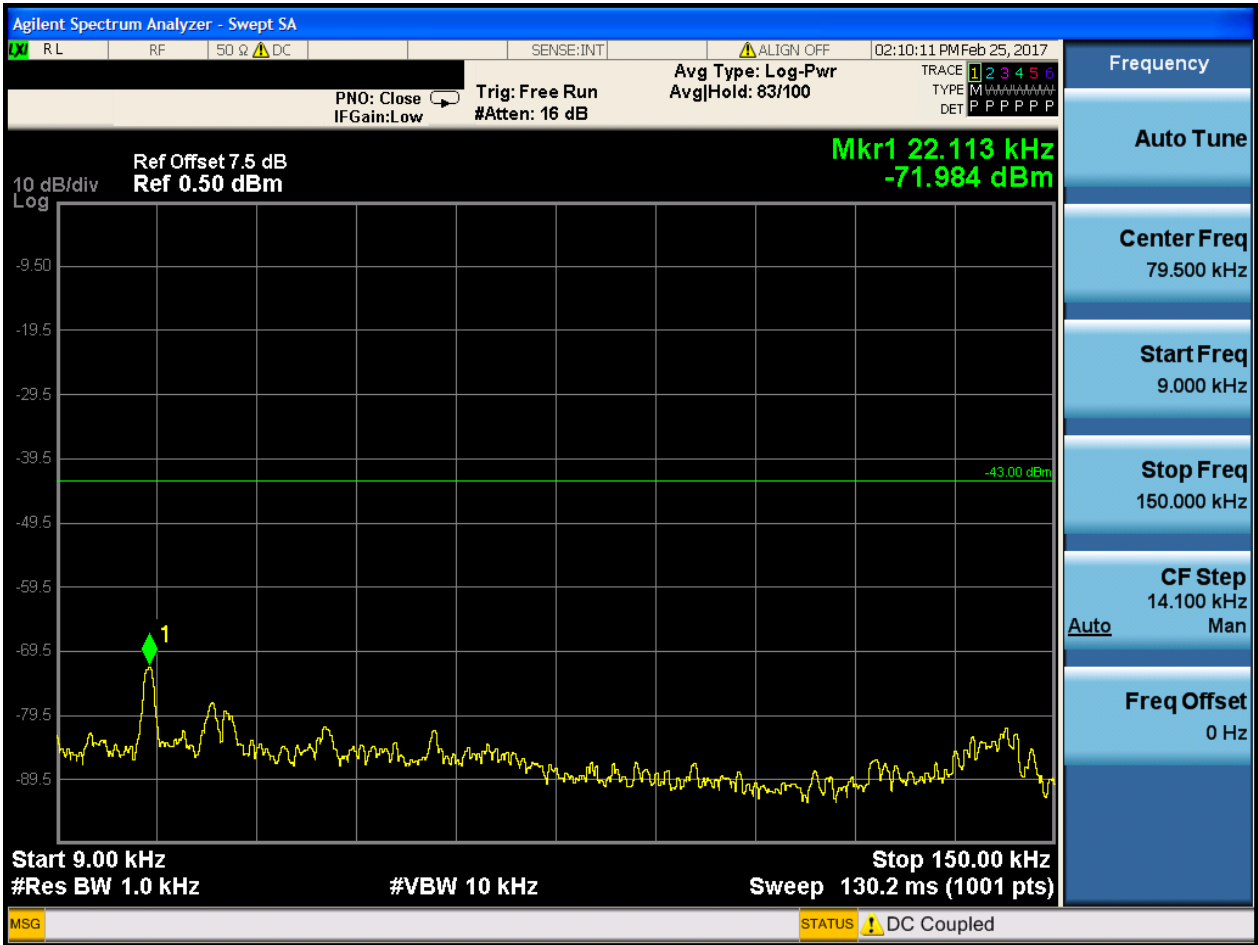


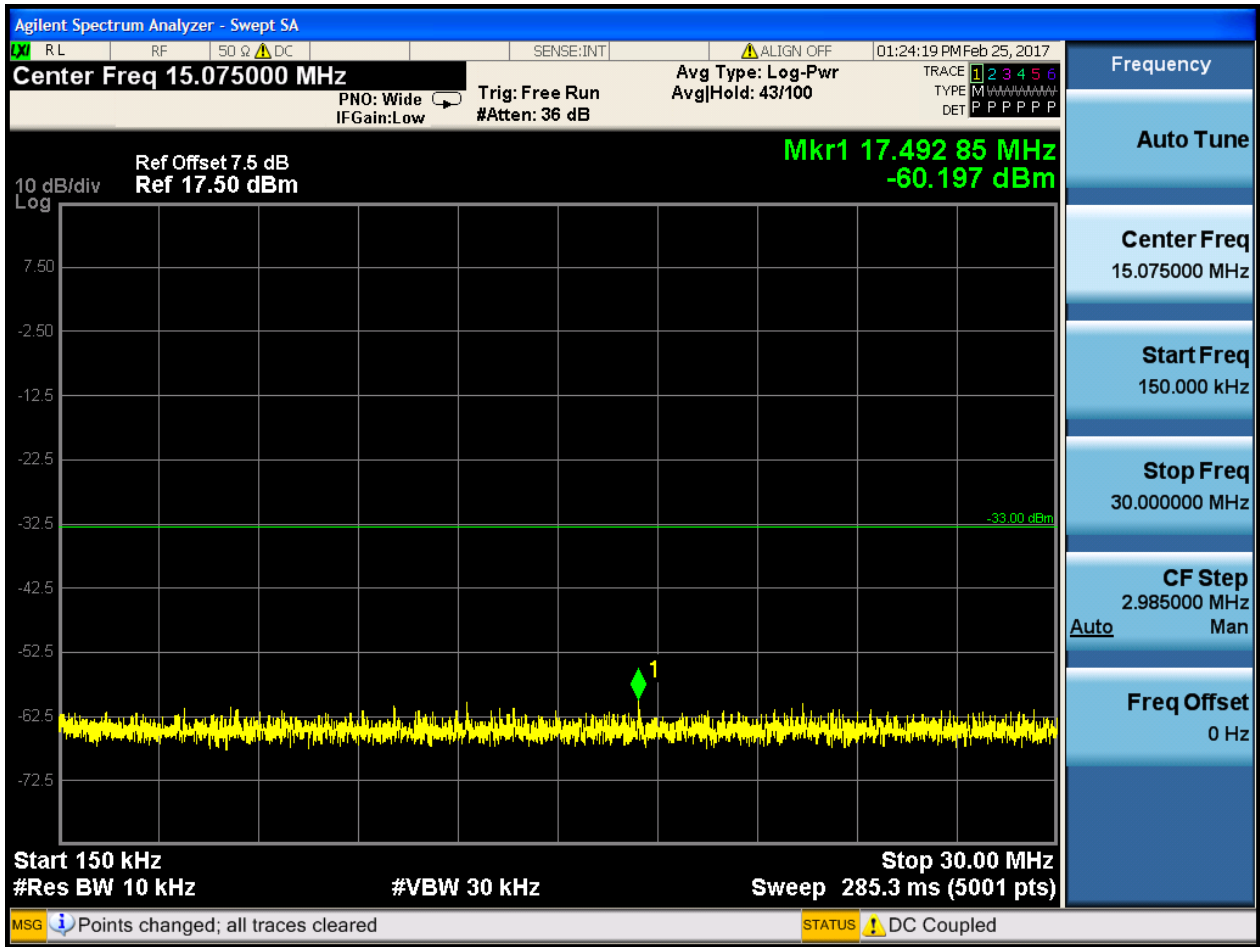


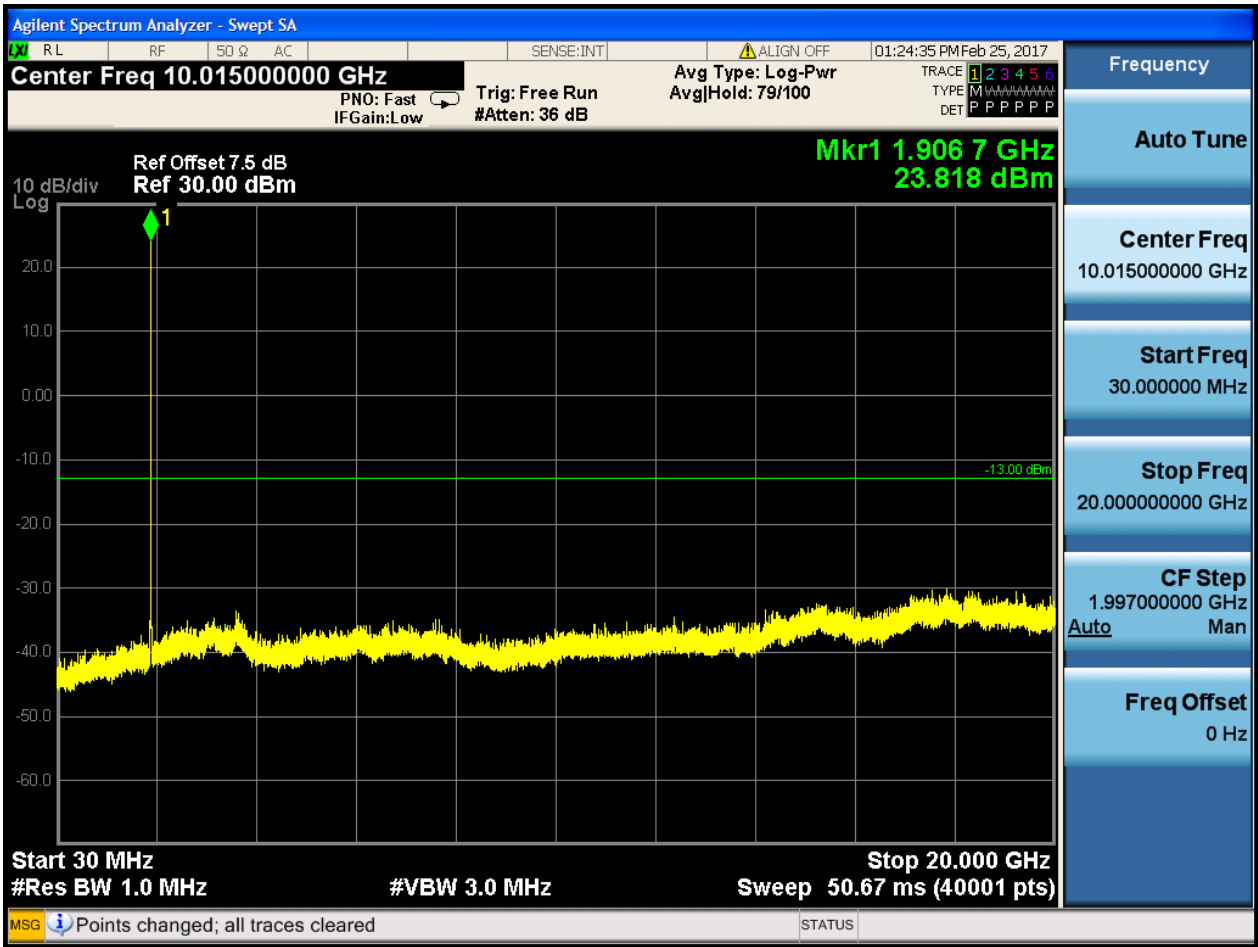




6.2.2.1.3 Test Channel = HCH









## 7Appendix\_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

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

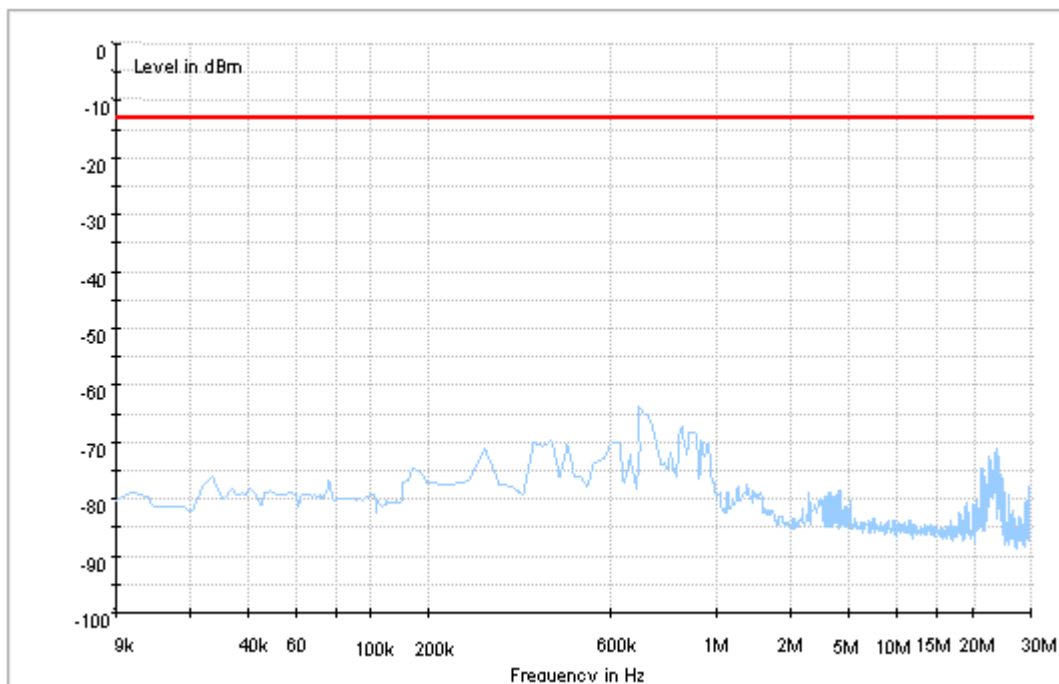
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

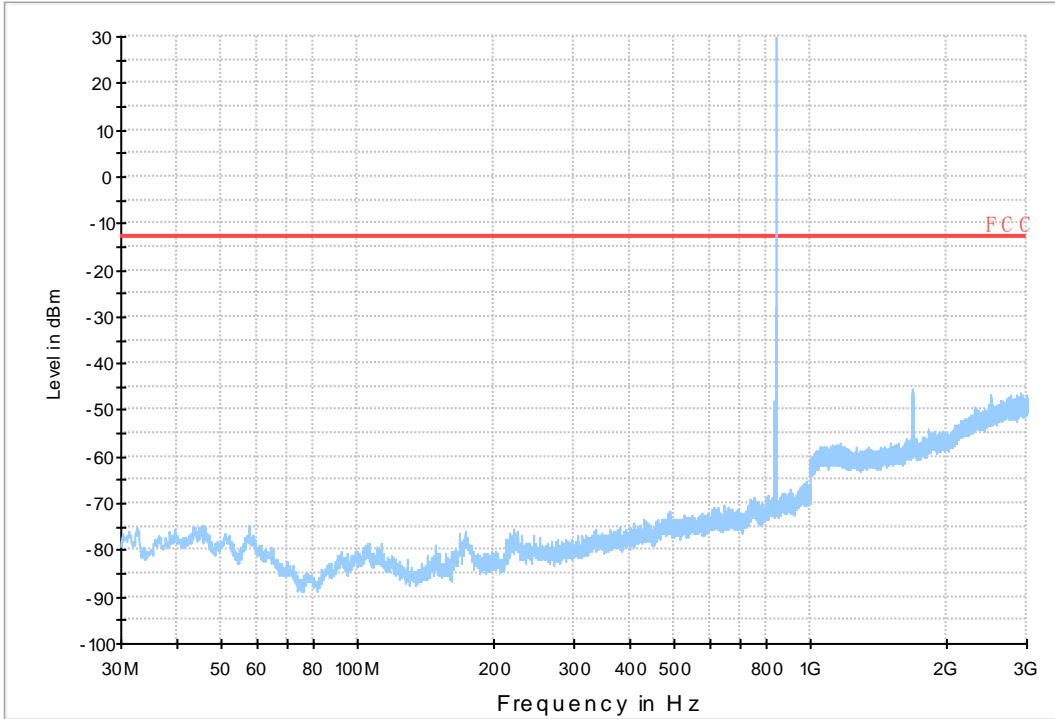
#### 7.1 For GSM

##### 7.1.1 Test Band = GSM850

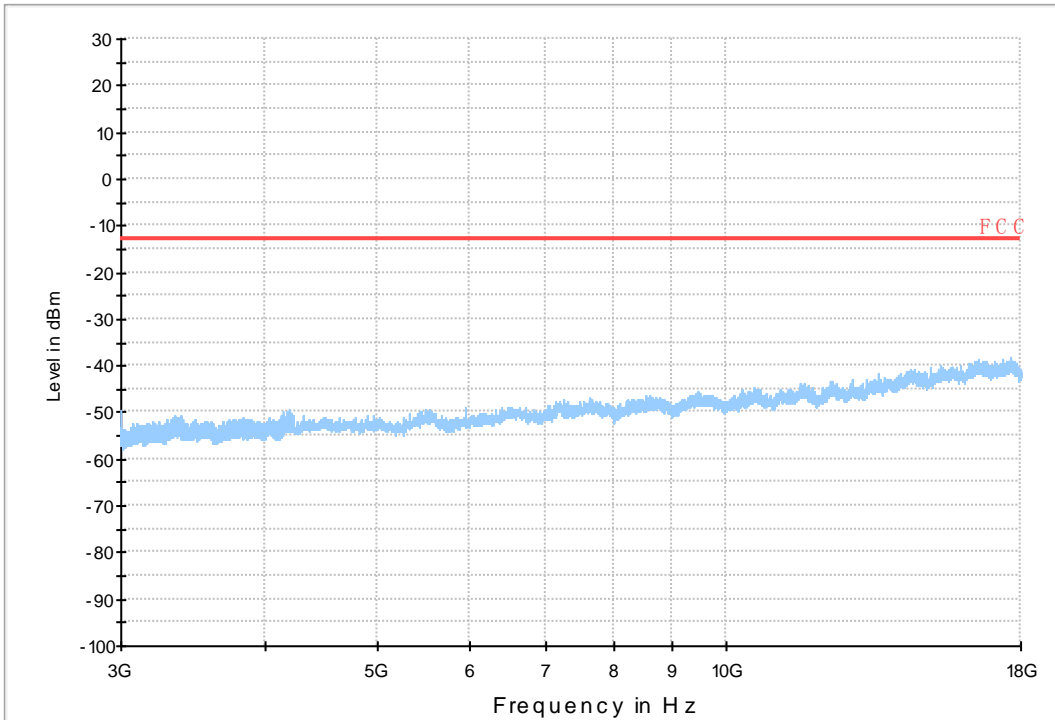
##### 7.1.1.1 Test Mode = GSM/TM1



Copy of FCC PART22 GSM850\_L

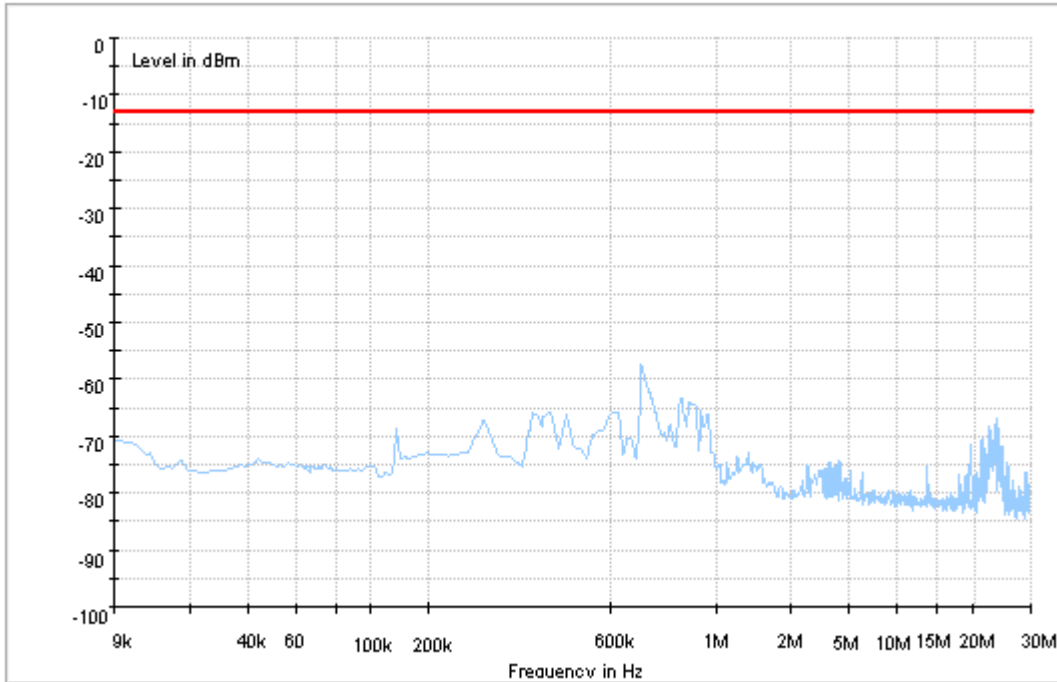


Copy of FCC PART22 GSM850\_H

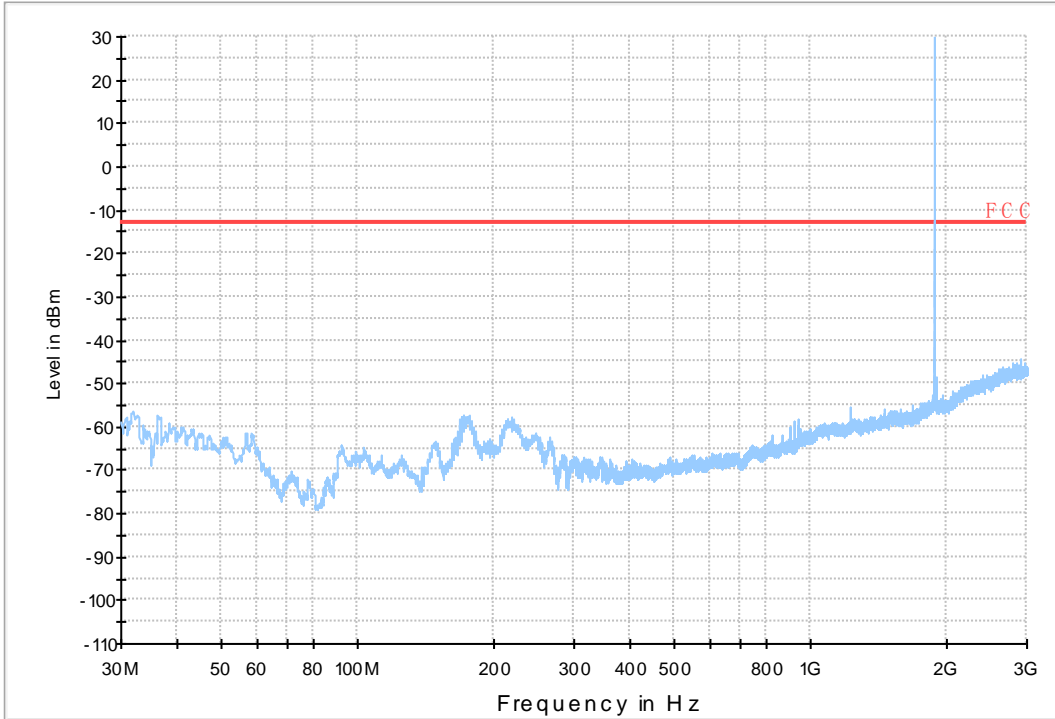


### 7.1.2 Test Band = GSM1900

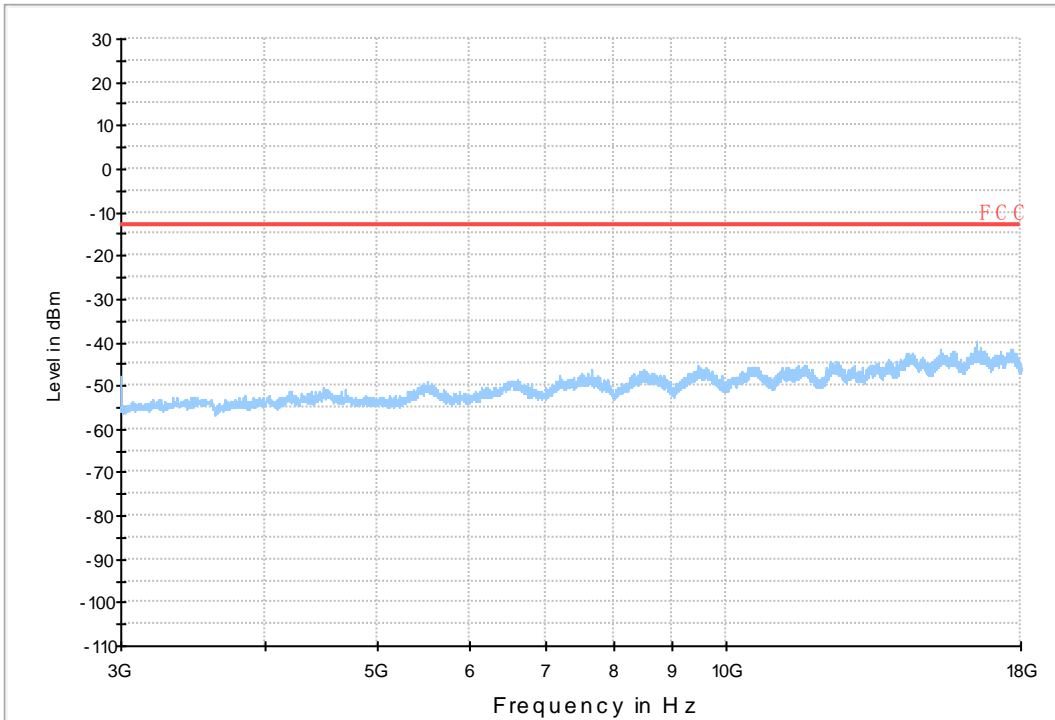
#### 7.1.2.1 Test Mode = GSM/TM1

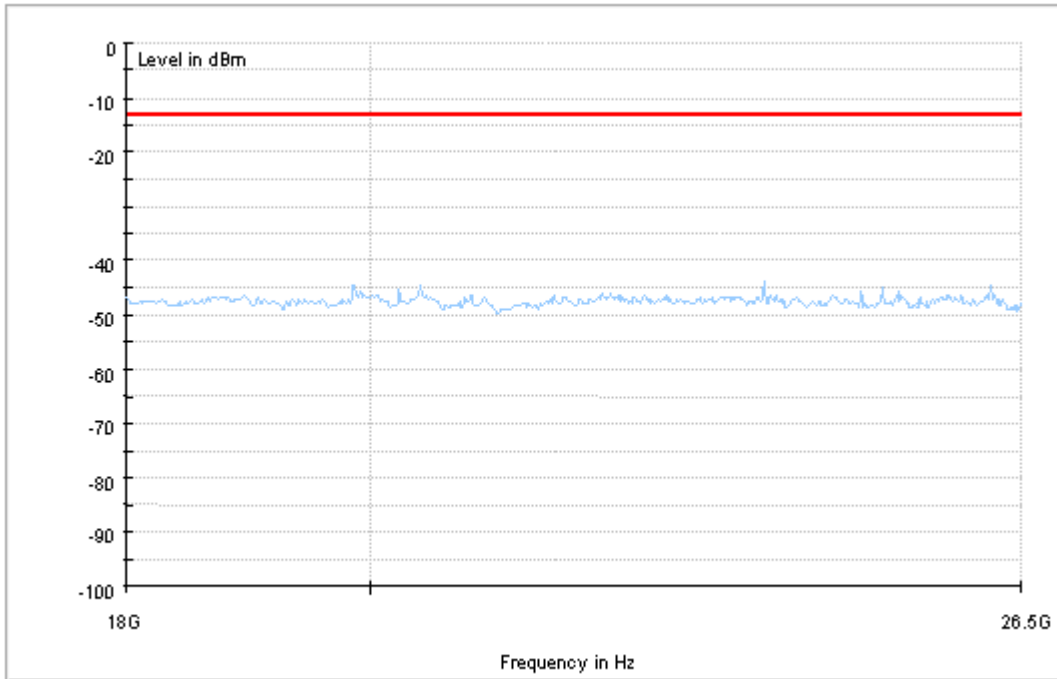


Copy of FCC PART24 GSM1900\_L



Copy of FCC PART24 GSM1900\_H

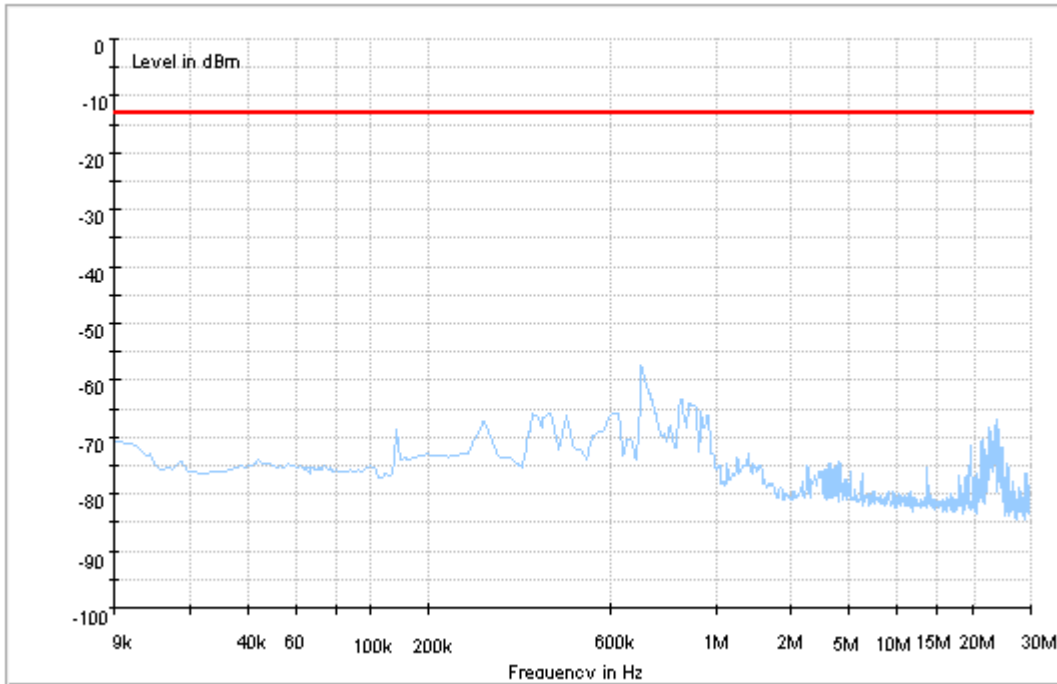




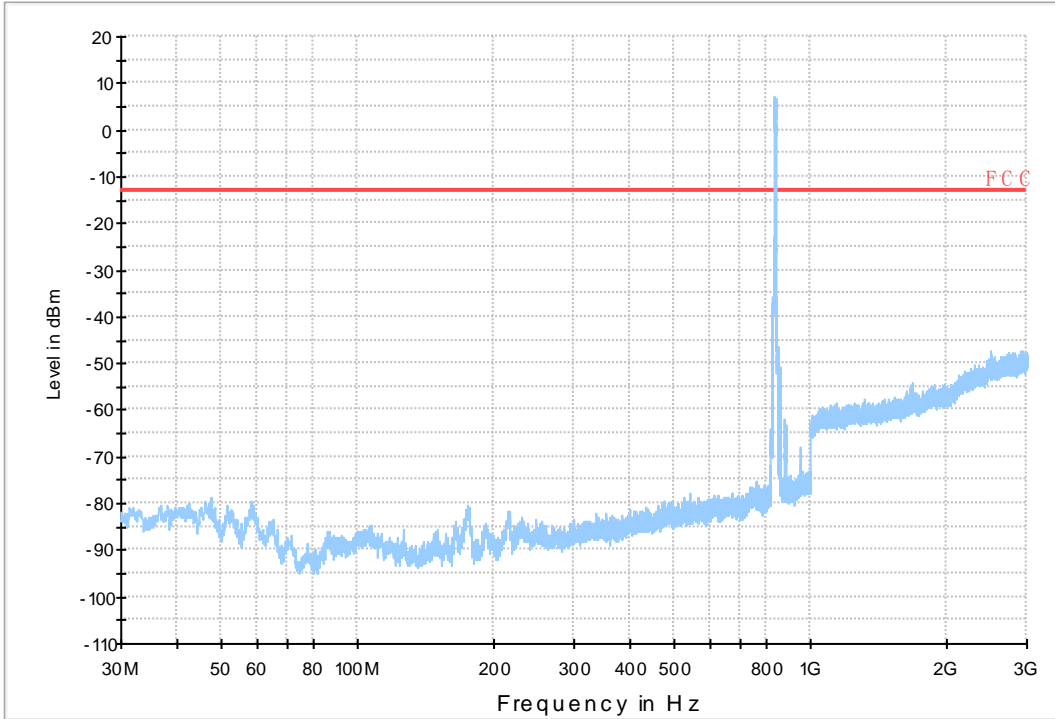
## 7.2 For UMTS

### 7.2.1 Test Band = WCDMA850

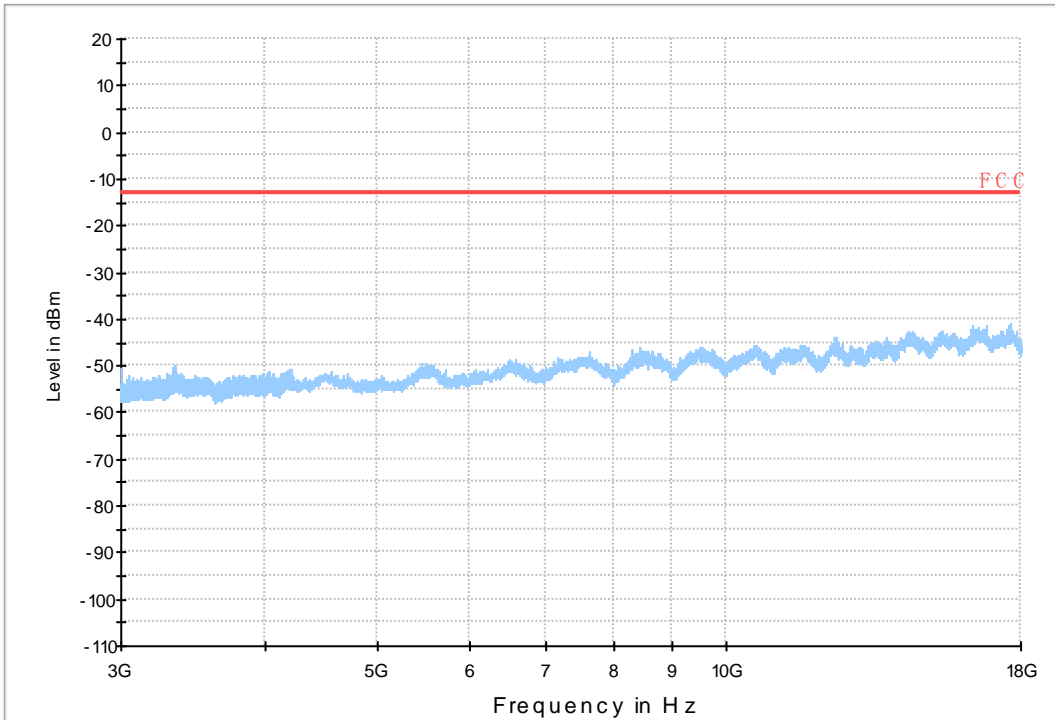
#### 7.2.1.1 Test Mode = UMTS/TM1



Copy of FCC PART22 W CDMA850\_L

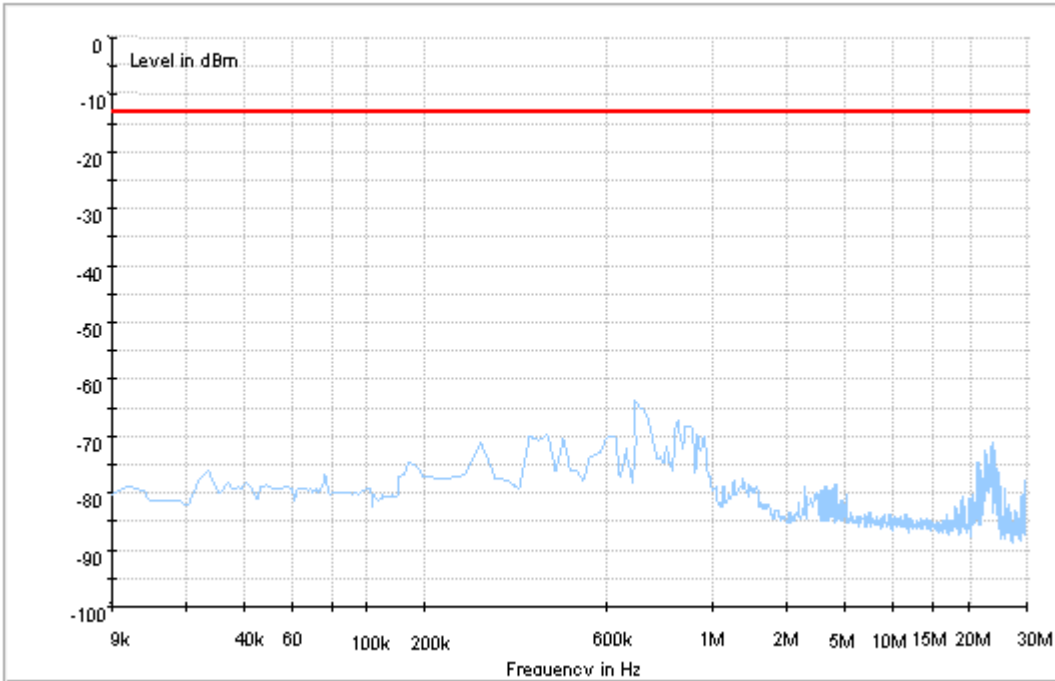


Copy of FCC PART22 W CDMA850\_H

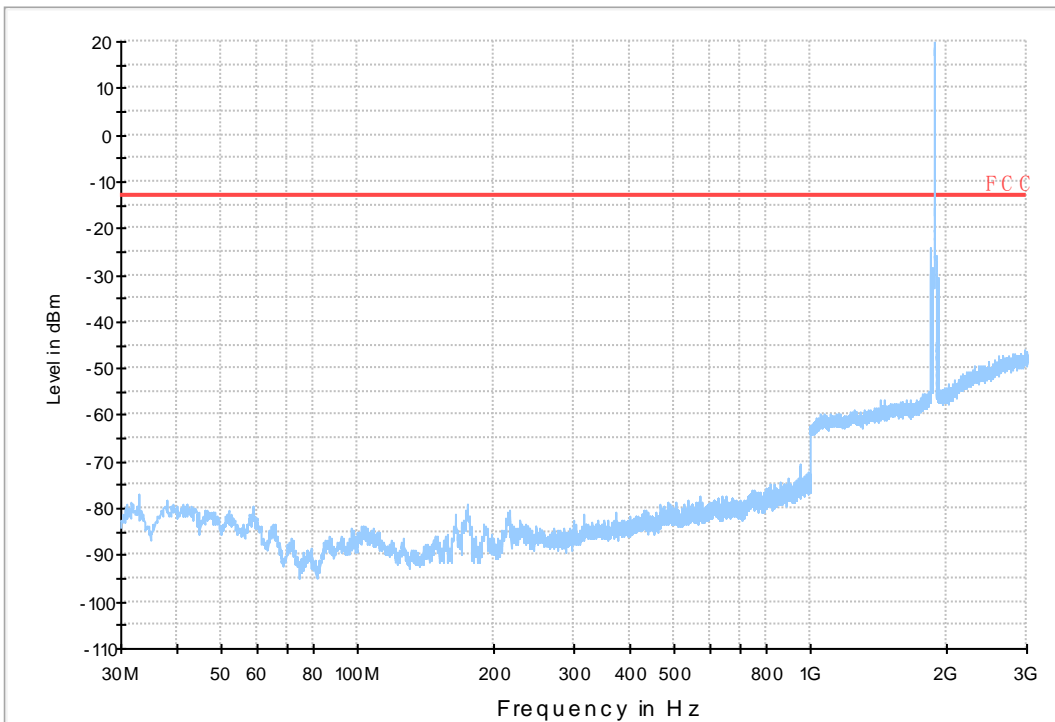


### 7.2.2 Test Band = WCDMA1900

#### 7.2.2.1 Test Mode = UMTS/TM1

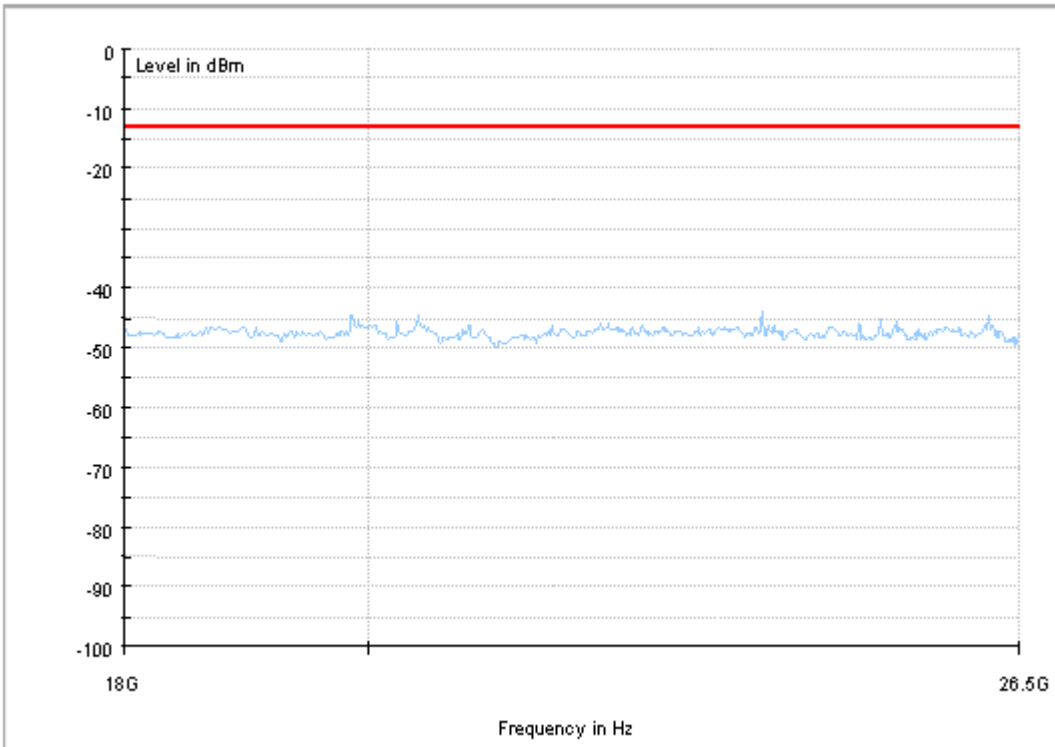
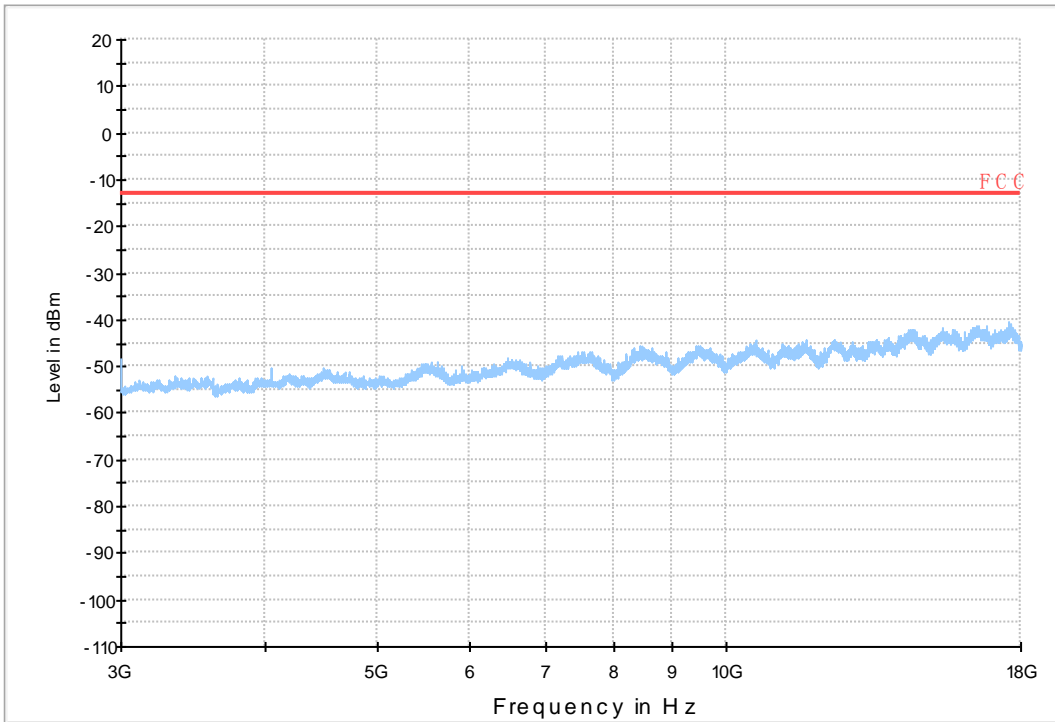


Copy of FCC PART24 W CDMA1900\_L





Copy of FCC PART 24 W CDMA1900\_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	13.88	0.01684	PASS
				VN	9.56	0.0116	PASS
				VH	12.53	0.0152	PASS
		MCH	TN	VL	13.43	0.01605	PASS
				VN	14.59	0.01744	PASS
				VH	12.20	0.01458	PASS
		HCH	TN	VL	13.30	0.01567	PASS
				VN	12.91	0.01521	PASS
				VH	14.14	0.01666	PASS
	GSM/TM2	LCH	TN	VL	15.88	0.01927	PASS
				VN	18.24	0.02213	PASS
				VH	19.11	0.02319	PASS
		MCH	TN	VL	13.75	0.01644	PASS
				VN	14.24	0.01702	PASS
				VH	13.46	0.01609	PASS
		HCH	TN	VL	18.60	0.02191	PASS
				VN	16.98	0.02	PASS
				VH	20.34	0.02396	PASS
GSM1900	GSM/TM1	LCH	TN	VL	0.90	0.00049	PASS
				VN	8.52	0.0046	PASS
				VH	-1.87	-0.00101	PASS
		MCH	TN	VL	2.32	0.00123	PASS
				VN	2.65	0.00141	PASS
				VH	1.23	0.00065	PASS
		HCH	TN	VL	-4.84	-0.00253	PASS
				VN	-2.07	-0.00108	PASS
				VH	-1.81	-0.00095	PASS
	GSM/TM2	LCH	TN	VL	2.62	0.00142	PASS
				VN	1.00	0.00054	PASS
				VH	7.78	0.0042	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	TN	VL	8.91	0.00474	PASS
				VN	3.91	0.00208	PASS
				VH	3.29	0.00175	PASS
		HCH	TN	VL	1.45	0.00076	PASS
				VN	1.61	0.00084	PASS
				VH	5.13	0.00269	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	12.40	0.01504	PASS
				-20	10.85	0.01316	PASS
				-10	10.27	0.01246	PASS
				0	9.88	0.01199	PASS
				10	13.50	0.01638	PASS
				20	11.56	0.01403	PASS
				30	13.24	0.01606	PASS
				40	12.20	0.0148	PASS
				50	9.36	0.01136	PASS
		MCH	VN	-30	14.14	0.0169	PASS
				-20	10.53	0.01259	PASS
				-10	14.01	0.01675	PASS
				0	9.23	0.01103	PASS
				10	13.24	0.01583	PASS
				20	11.04	0.0132	PASS
				30	9.30	0.01112	PASS
				40	10.85	0.01297	PASS
				50	9.56	0.01143	PASS
		HCH	VN	-30	13.17	0.01552	PASS
				-20	11.88	0.014	PASS
				-10	13.50	0.0159	PASS
				0	18.79	0.02214	PASS
				10	10.59	0.01248	PASS
				20	12.72	0.01499	PASS
				30	10.72	0.01263	PASS
				40	9.36	0.01103	PASS
				50	9.69	0.01142	PASS
	GSM/TM2	LCH	VN	-30	15.56	0.01888	PASS
				-20	17.63	0.02139	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict				
				-10	15.95	0.01935	PASS				
				0	17.08	0.02072	PASS				
				10	12.27	0.01489	PASS				
				20	16.11	0.01955	PASS				
				30	17.82	0.02162	PASS				
				40	16.79	0.02037	PASS				
				50	17.53	0.02127	PASS				
		MCH	VN	-30	16.79	0.02007	PASS				
				-20	14.50	0.01733	PASS				
				-10	13.72	0.0164	PASS				
				0	15.56	0.0186	PASS				
				10	15.56	0.0186	PASS				
				20	15.34	0.01834	PASS				
				30	16.34	0.01953	PASS				
		HCH	VN	40	17.21	0.02057	PASS				
				50	16.21	0.01938	PASS				
				-30	18.02	0.02123	PASS				
				-20	16.89	0.0199	PASS				
				-10	17.05	0.02009	PASS				
				0	19.89	0.02343	PASS				
				10	17.08	0.02012	PASS				
				20	15.88	0.01871	PASS				
				30	16.43	0.01936	PASS				
				40	16.43	0.01936	PASS				
				50	15.69	0.01848	PASS				
				GSM1900	GSM/TM1	LCH	VN	-30	-2.97	-0.00161	PASS
								-20	3.62	0.00196	PASS
-10	-0.97							-0.00052	PASS		
0	-0.26	-0.00014	PASS								
10	4.26	0.0023	PASS								
20	-0.90	-0.00049	PASS								
30	2.00	0.00108	PASS								
40	1.49	0.00081	PASS								
50	-5.17	-0.00279	PASS								
MCH	VN	-30	2.52			0.00134	PASS				
		-20	-3.16	-0.00168	PASS						
		-10	-4.00	-0.00213	PASS						
		0	-0.58	-0.00031	PASS						
		10	-1.10	-0.00059	PASS						
		20	0.77	0.00041	PASS						

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict				
				30	3.62	0.00193	PASS				
				40	-5.68	-0.00302	PASS				
				50	-5.75	-0.00306	PASS				
		HCH	VN	-30	1.74	0.00091	PASS				
				-20	-3.03	-0.00159	PASS				
				-10	-0.52	-0.00027	PASS				
				0	0.19	0.0001	PASS				
				10	4.33	0.00227	PASS				
				20	-0.58	-0.0003	PASS				
				30	2.32	0.00121	PASS				
				40	3.03	0.00159	PASS				
				50	-1.23	-0.00064	PASS				
				GSM/TM2		LCH	VN	-30	7.97	0.00431	PASS
								-20	9.23	0.00499	PASS
								-10	7.72	0.00417	PASS
	0	-3.58	-0.00193					PASS			
	10	2.55	0.00138					PASS			
	20	-1.65	-0.00089					PASS			
	30	0.26	0.00014					PASS			
	40	10.30	0.00557					PASS			
	50	2.39	0.00129					PASS			
	MCH	VN	-30			1.87	0.00099	PASS			
			-20			2.42	0.00129	PASS			
			-10			3.03	0.00161	PASS			
			0			4.20	0.00223	PASS			
			10			0.58	0.00031	PASS			
			20			5.46	0.0029	PASS			
	HCH	VN	30	7.26	0.00386	PASS					
			40	3.68	0.00196	PASS					
			50	3.55	0.00189	PASS					
			-30	7.43	0.00389	PASS					
			-20	8.30	0.00435	PASS					
			-10	0.84	0.00044	PASS					
			0	4.00	0.00209	PASS					
			10	2.26	0.00118	PASS					
			20	6.72	0.00352	PASS					
	30	4.84	0.00253	PASS							
	40	9.46	0.00495	PASS							
	50	4.88	0.00256	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	2.23	0.0027	PASS
				VN	0.24	0.00029	PASS
				VH	-0.81	-0.00098	PASS
		MCH	TN	VL	-0.72	-0.00086	PASS
				VN	0.26	0.00031	PASS
				VH	0.03	0.00004	PASS
		HCH	TN	VL	-3.39	-0.004	PASS
				VN	-1.53	-0.00181	PASS
				VH	-1.63	-0.00193	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-1.77	-0.00096	PASS
				VN	2.12	0.00114	PASS
				VH	3.92	0.00212	PASS
		MCH	TN	VL	-0.52	-0.00028	PASS
				VN	0.79	0.00042	PASS
				VH	-3.57	-0.0019	PASS
		HCH	TN	VL	-2.78	-0.00146	PASS
				VN	-4.06	-0.00213	PASS
				VH	-1.69	-0.00089	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	0.81	0.00098	PASS
				-20	-1.02	-0.00123	PASS
				-10	-0.09	-0.00011	PASS
				0	-2.23	-0.0027	PASS
				10	1.33	0.00161	PASS
				20	0.14	0.00017	PASS
				30	0.87	0.00105	PASS
				40	-0.11	-0.00013	PASS
				50	-0.03	-0.00004	PASS
		MCH	VN	-30	-1.08	-0.00129	PASS
				-20	-0.81	-0.00097	PASS
				-10	-1.79	-0.00214	PASS
				0	-0.93	-0.00111	PASS
				10	-0.03	-0.00004	PASS
				20	0.67	0.0008	PASS
				30	2.73	0.00326	PASS
				40	-1.63	-0.00195	PASS
				50	1.31	0.00157	PASS
		HCH	VN	-30	0.11	0.00013	PASS
				-20	-2.66	-0.00314	PASS
				-10	-1.45	-0.00171	PASS
				0	2.40	0.00283	PASS
				10	-1.89	-0.00223	PASS
				20	-2.64	-0.00312	PASS
				30	-2.00	-0.00236	PASS
				40	-0.84	-0.00099	PASS
				50	-0.27	-0.00032	PASS
WCDMA1900	UMTS/TM1	LCH	VN	-30	2.49	0.00134	PASS
				-20	1.80	0.00097	PASS
				-10	-1.33	-0.00072	PASS
				0	1.63	0.00088	PASS
				10	2.12	0.00114	PASS
				20	-0.09	-0.00005	PASS
				30	-1.40	-0.00076	PASS
				40	-0.15	-0.00008	PASS
				50	0.21	0.00011	PASS
		MCH	VN	-30	0.08	0.00004	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-20	-1.54	-0.00082	PASS
				-10	-2.67	-0.00142	PASS
				0	-0.47	-0.00025	PASS
				10	-0.32	-0.00017	PASS
				20	-0.21	-0.00011	PASS
				30	0.92	0.00049	PASS
				40	-1.57	-0.00084	PASS
				50	0.46	0.00024	PASS
		HCH	VN	-30	-4.14	-0.00217	PASS
				-20	-3.17	-0.00166	PASS
				-10	-4.78	-0.00251	PASS
				0	-0.35	-0.00018	PASS
				10	-3.08	-0.00161	PASS
				20	-2.26	-0.00118	PASS
				30	-0.50	-0.00026	PASS
				40	-2.64	-0.00138	PASS
				50	-1.39	-0.00073	PASS

END