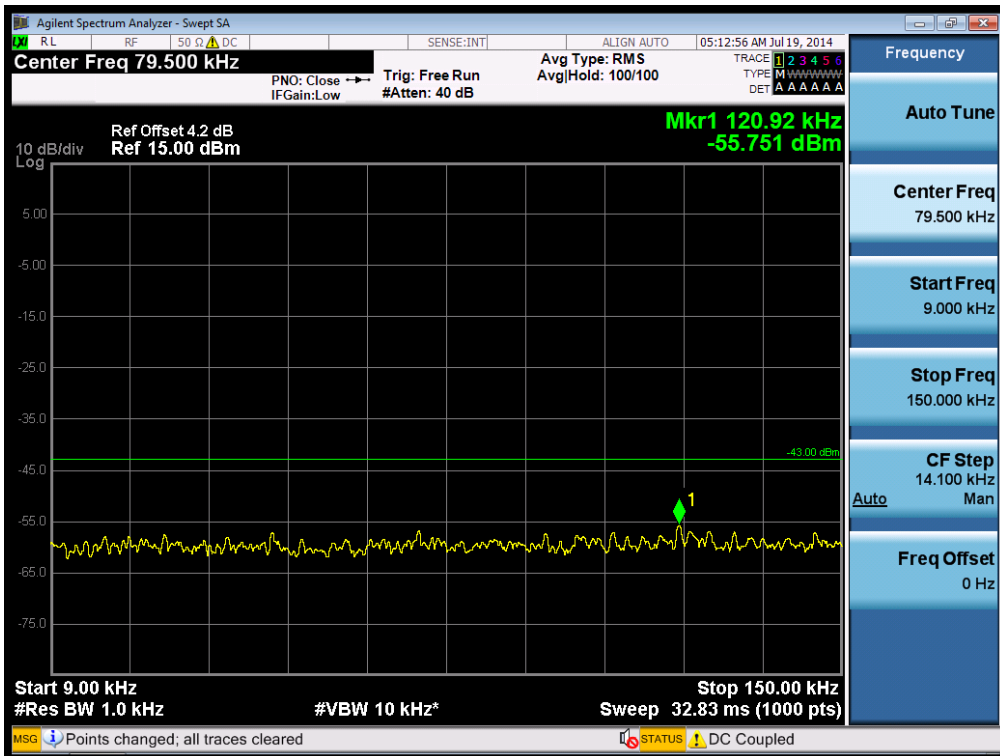
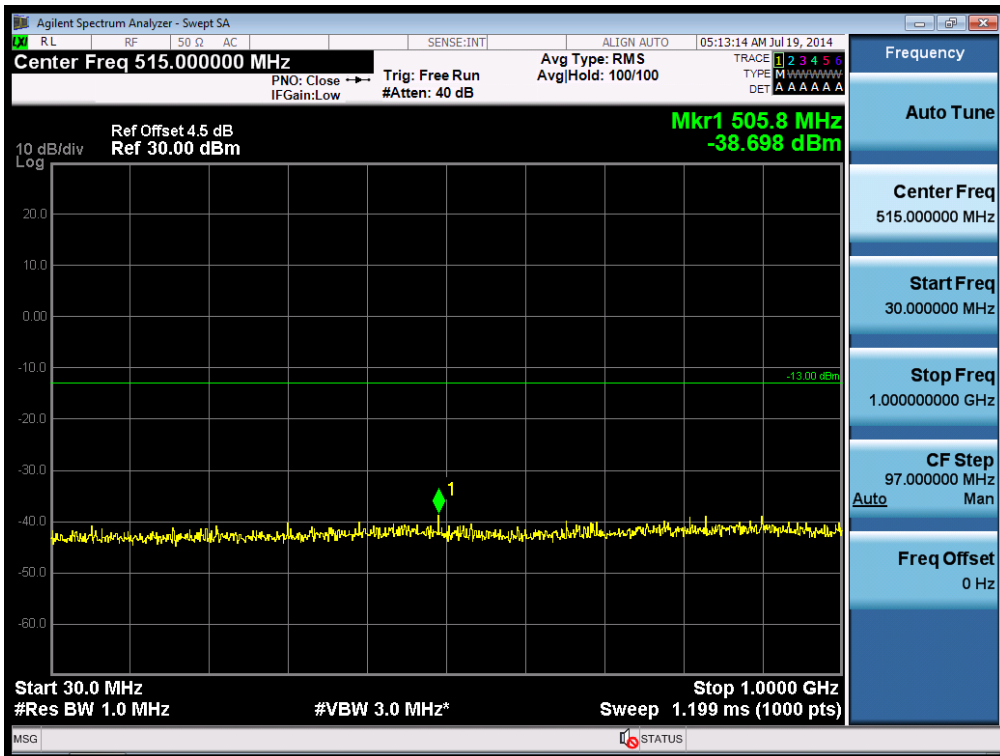
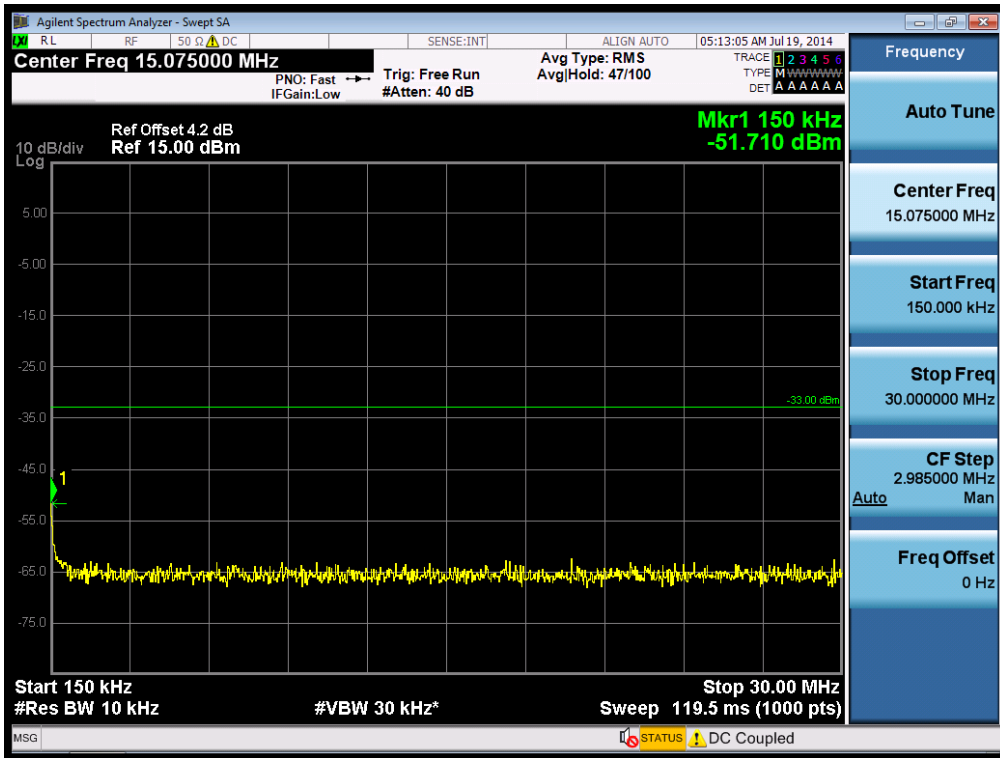
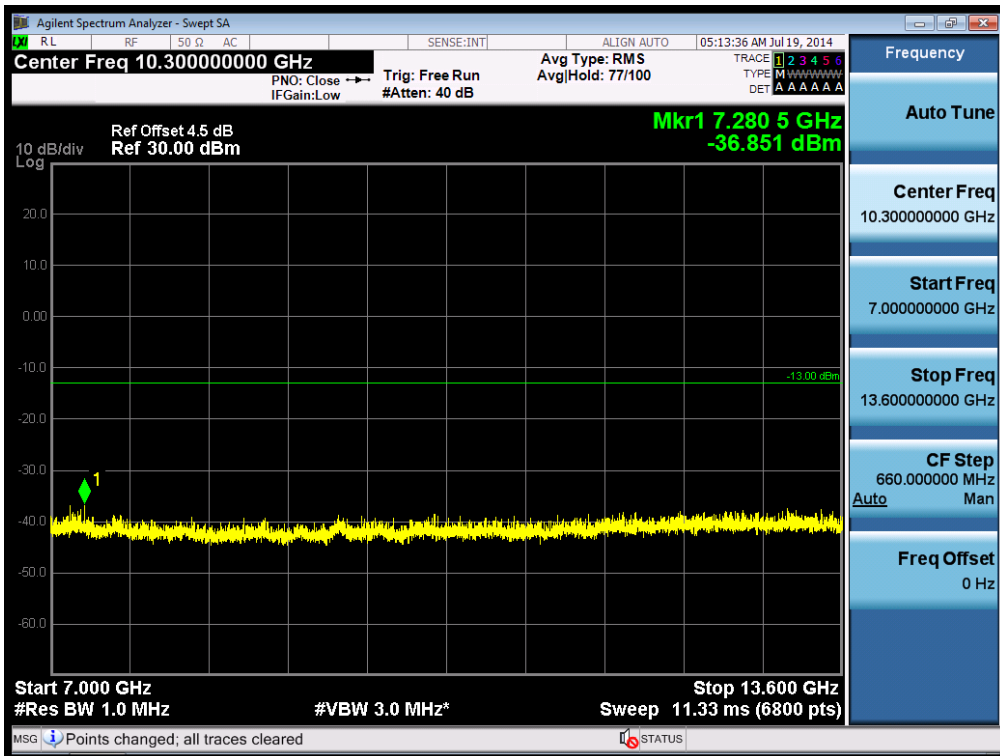
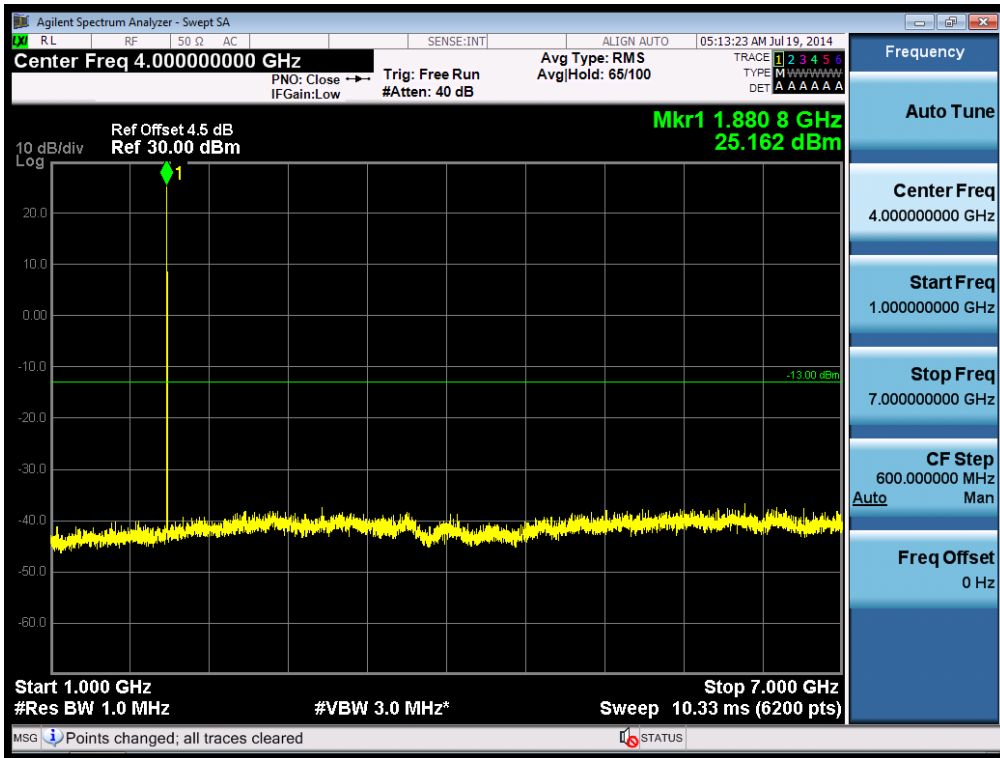
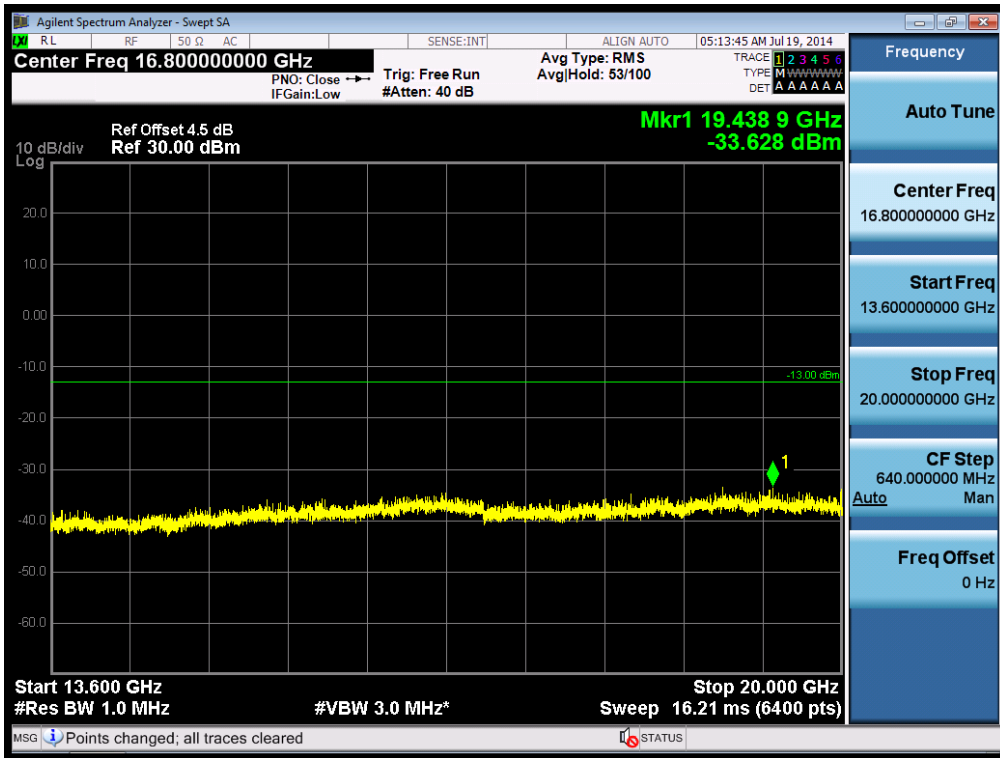


Test Channel=MCH

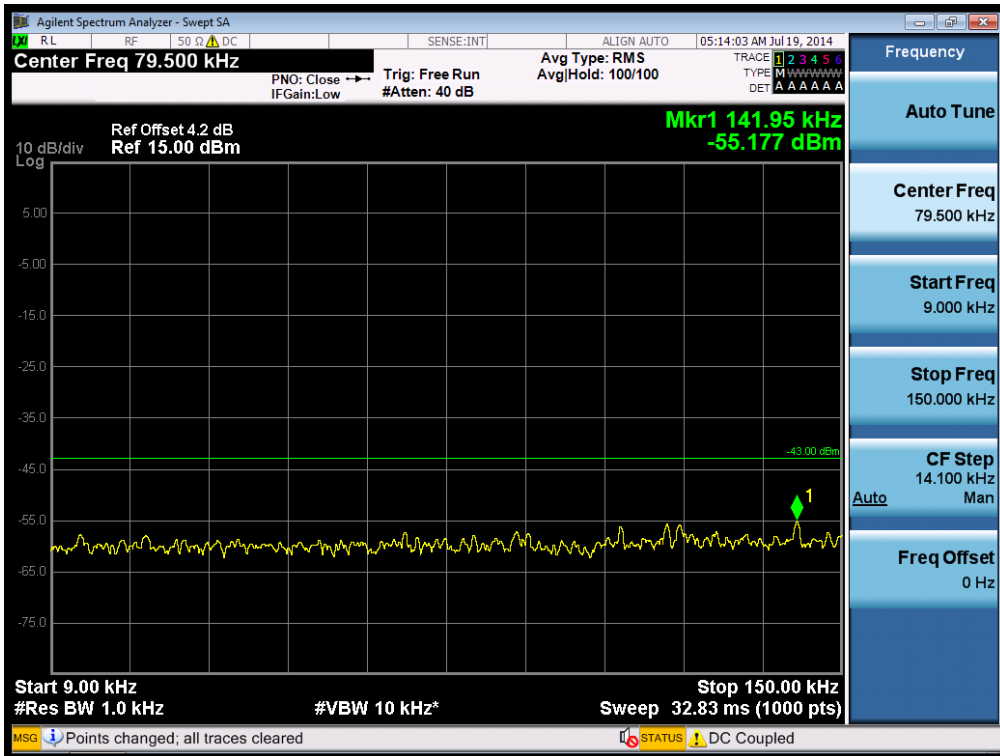


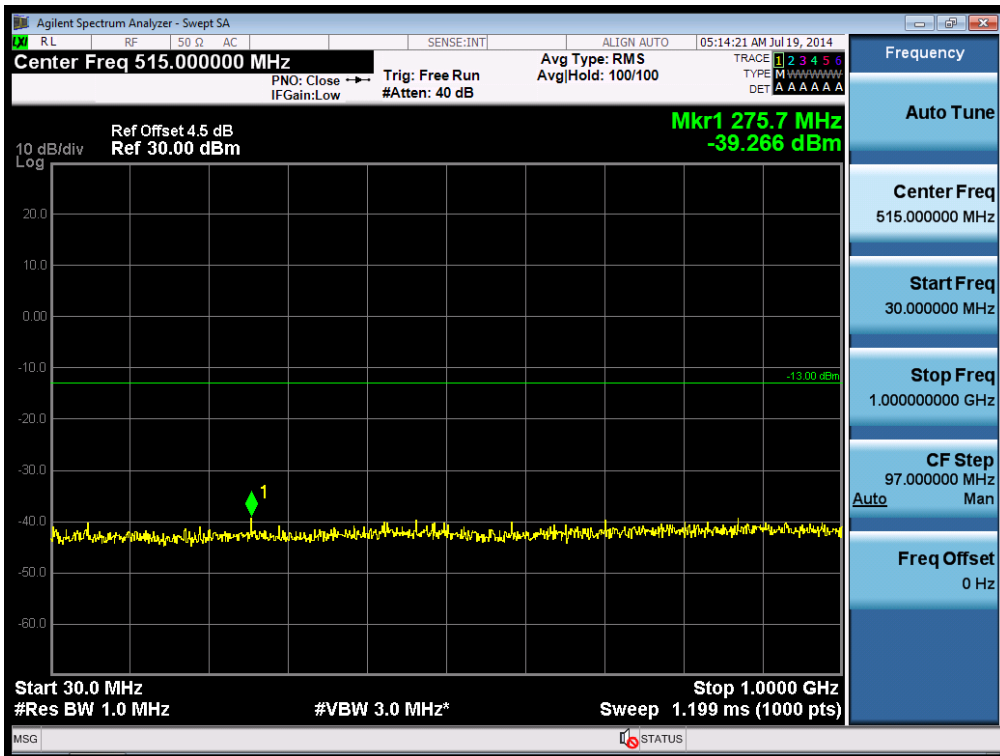
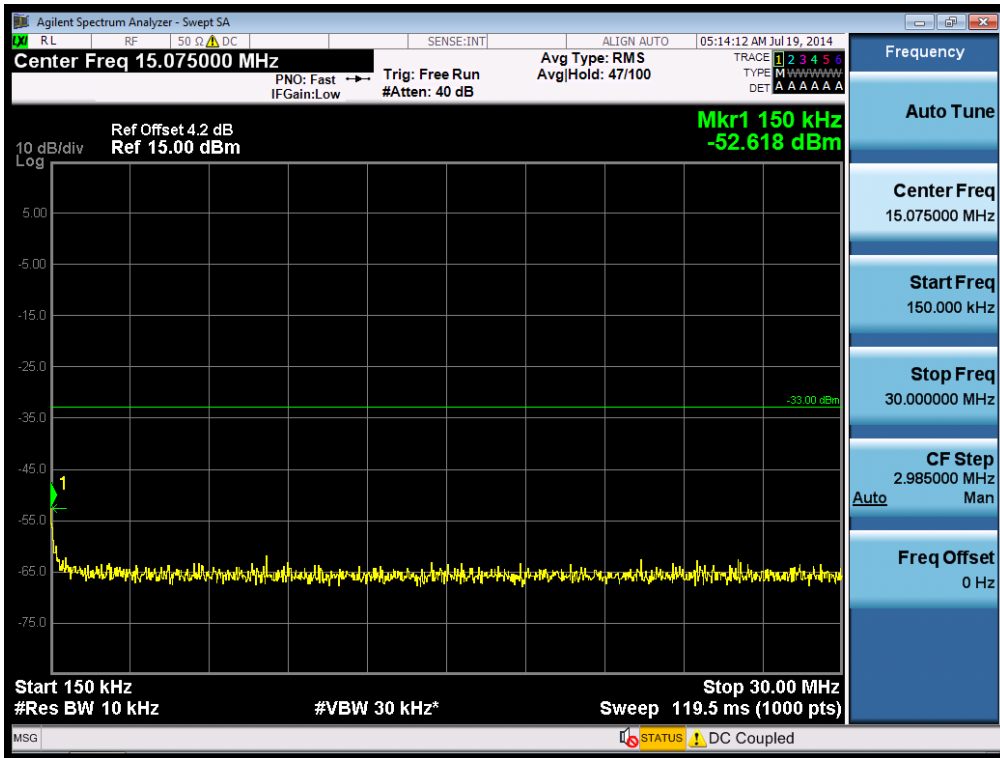


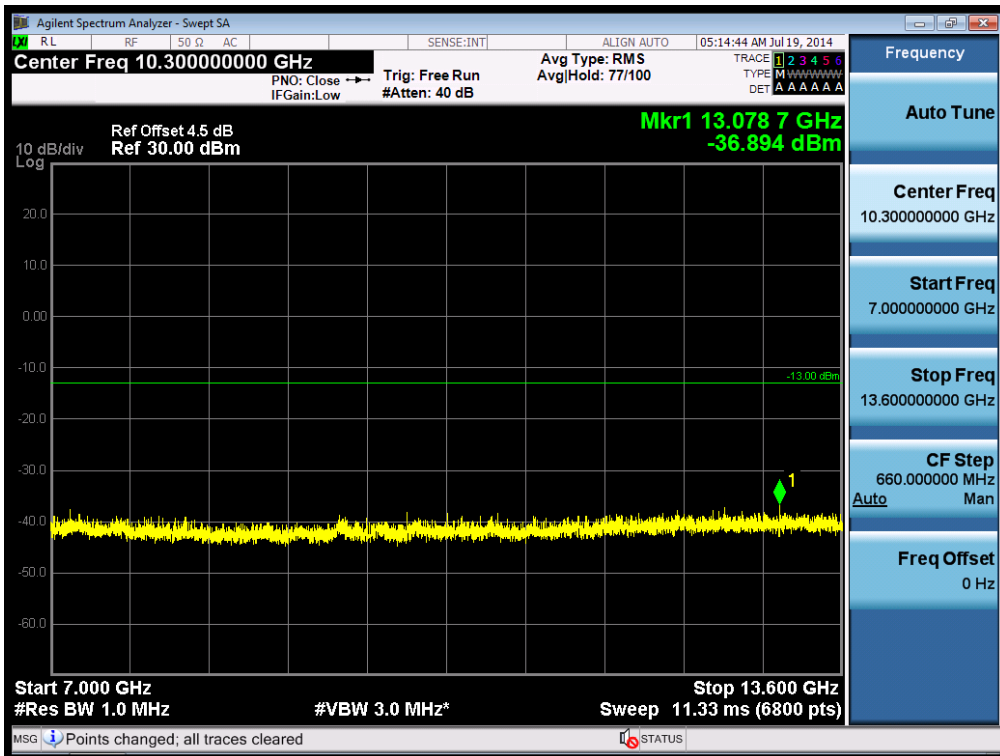
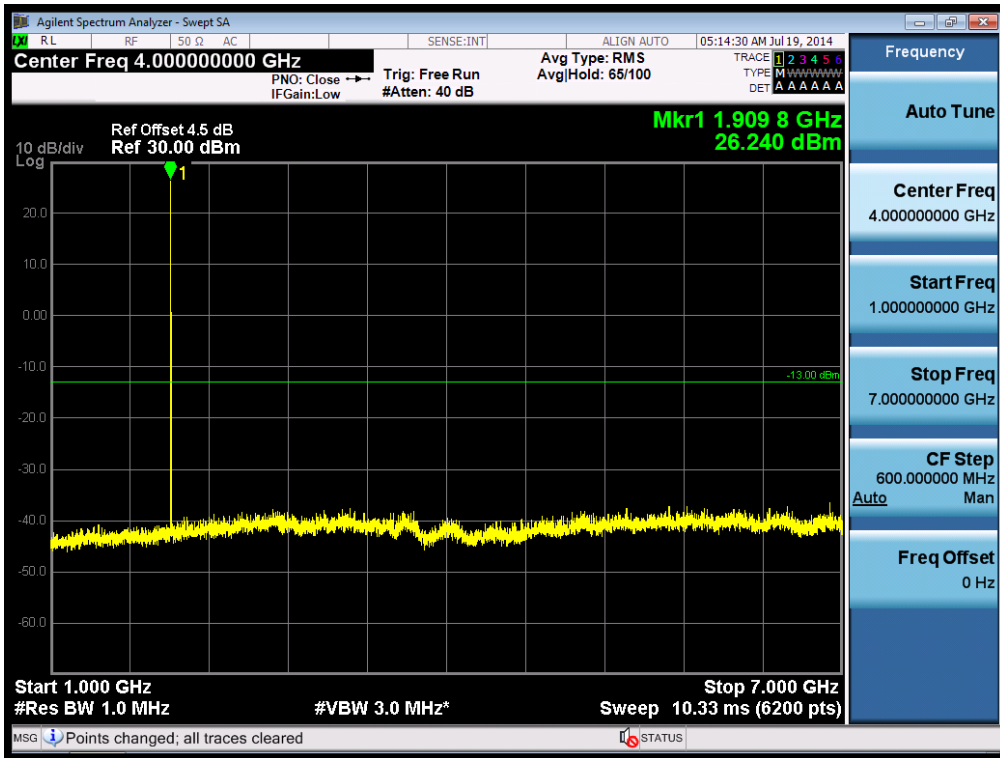




Test Channel=HCH





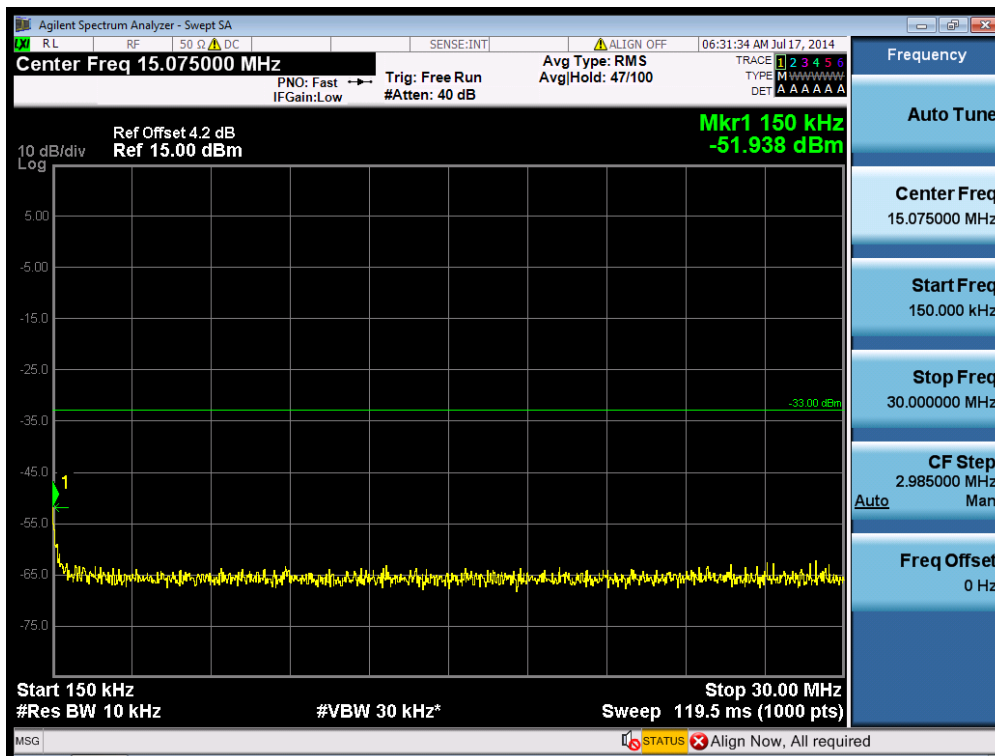
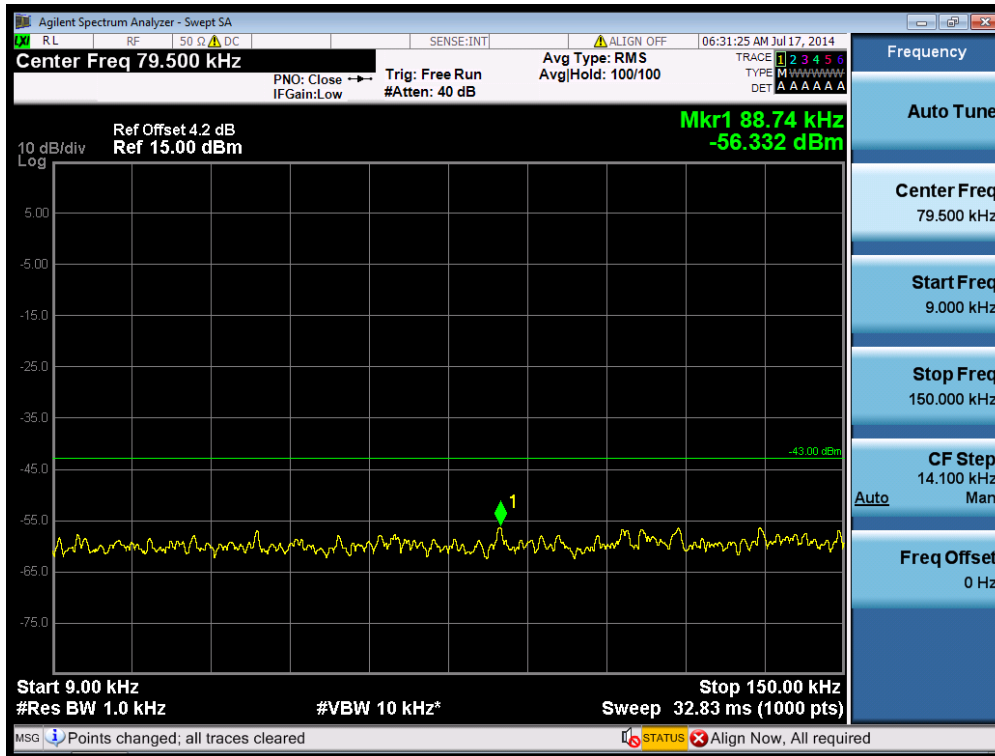




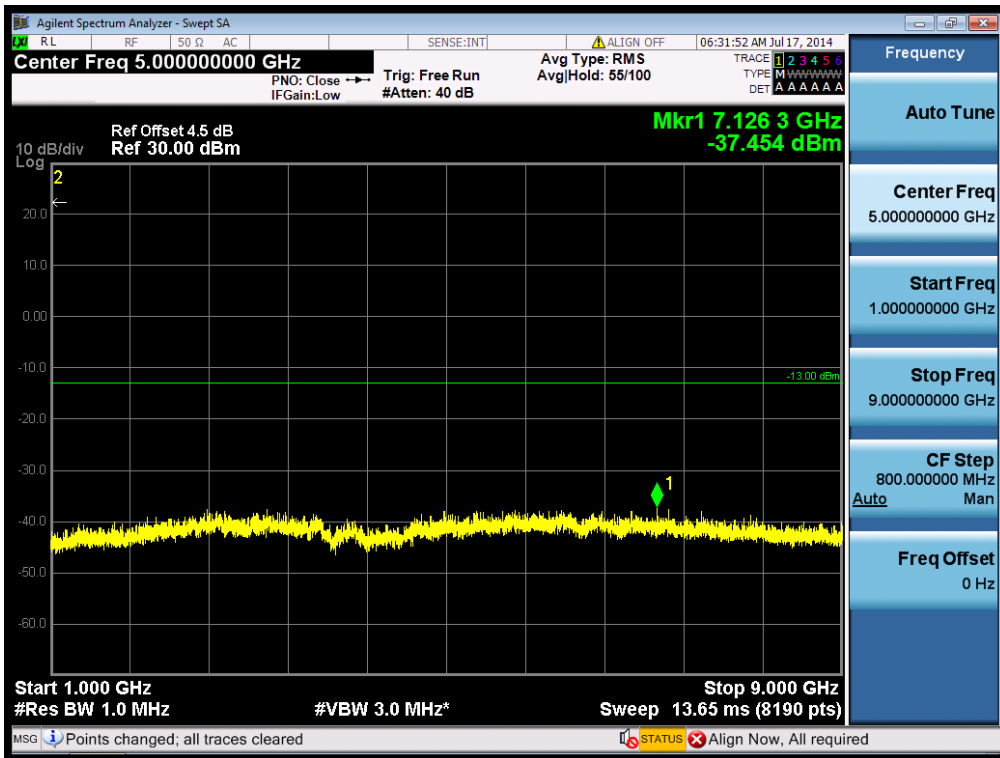
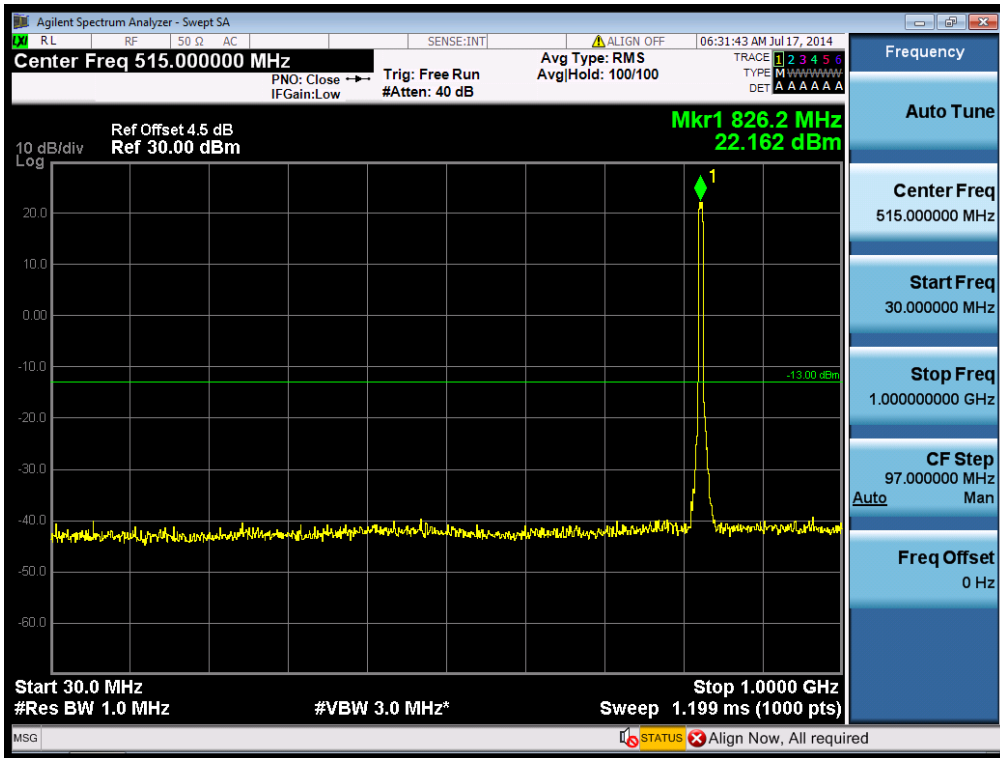
# Test Band=WCDMA850

Test Mode=UMTS/TM1

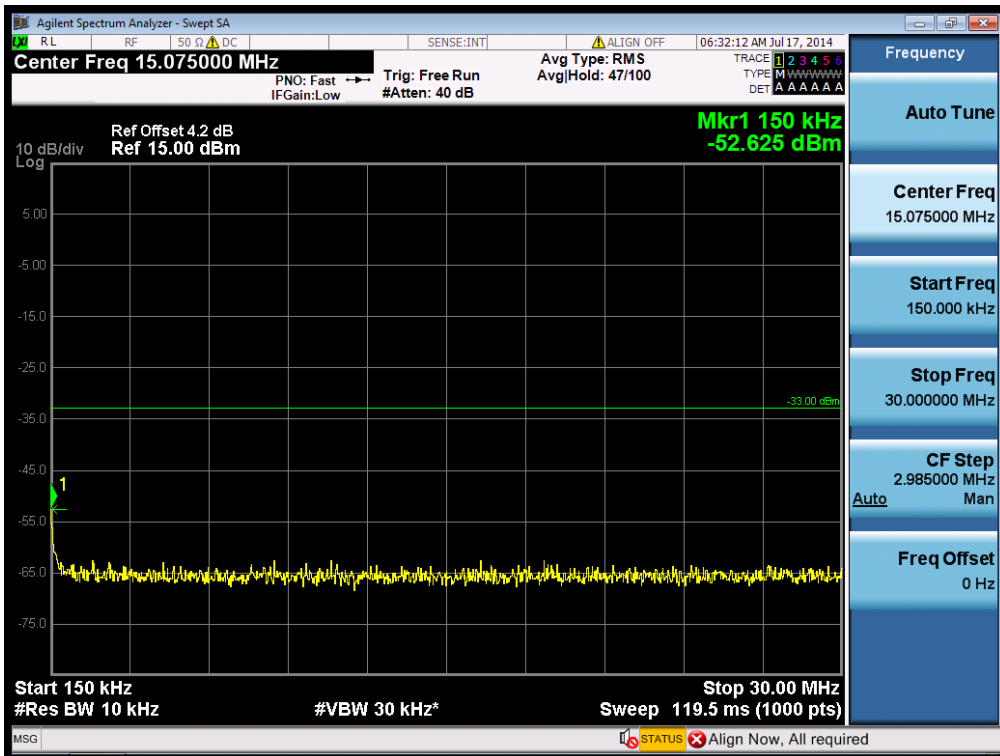
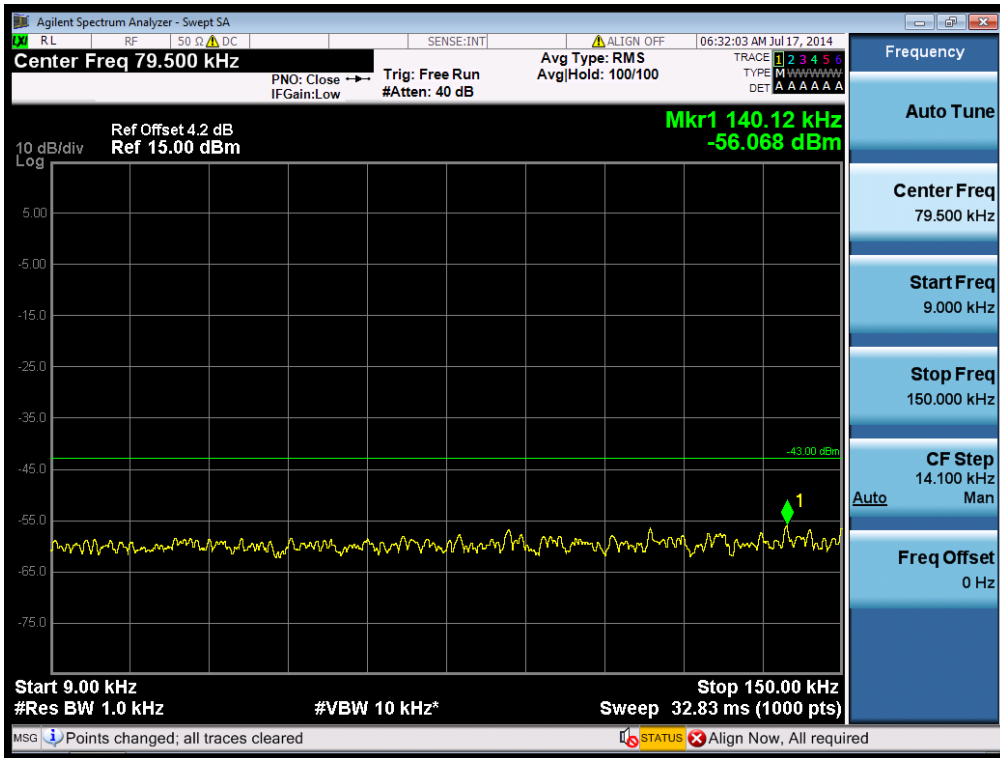
Test Channel=LCH

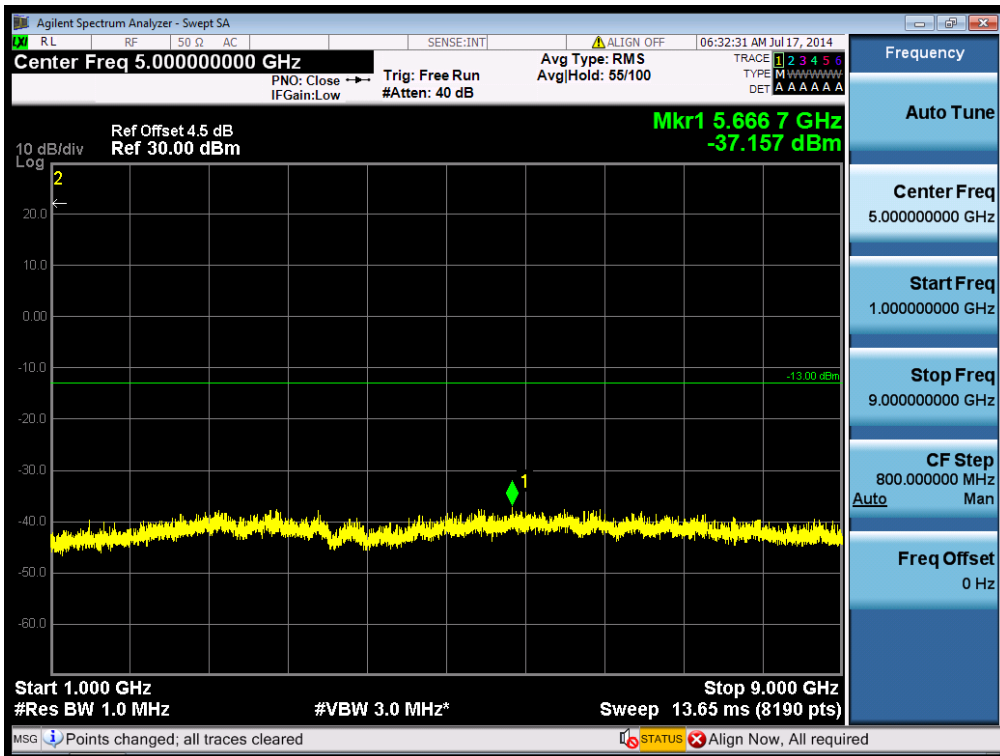
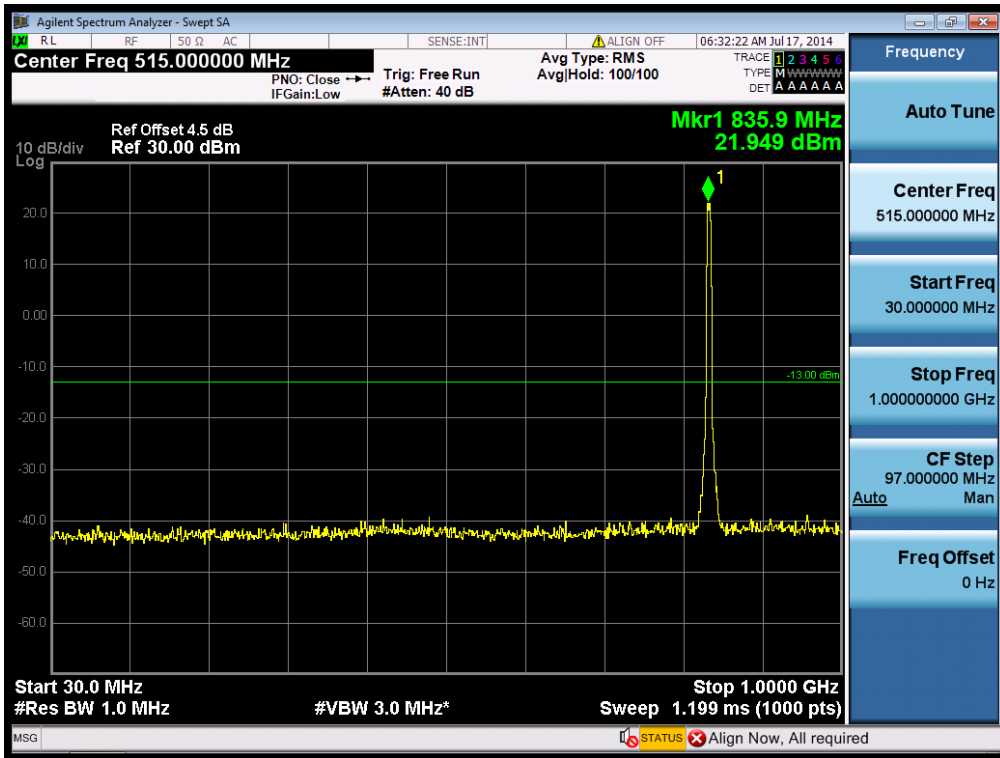




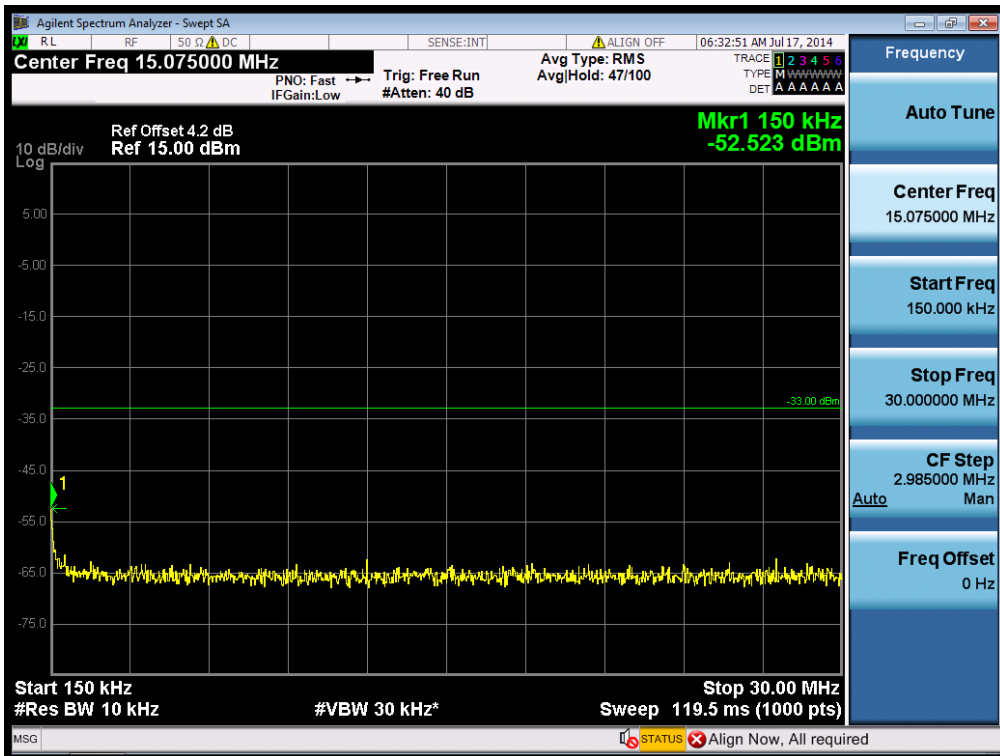
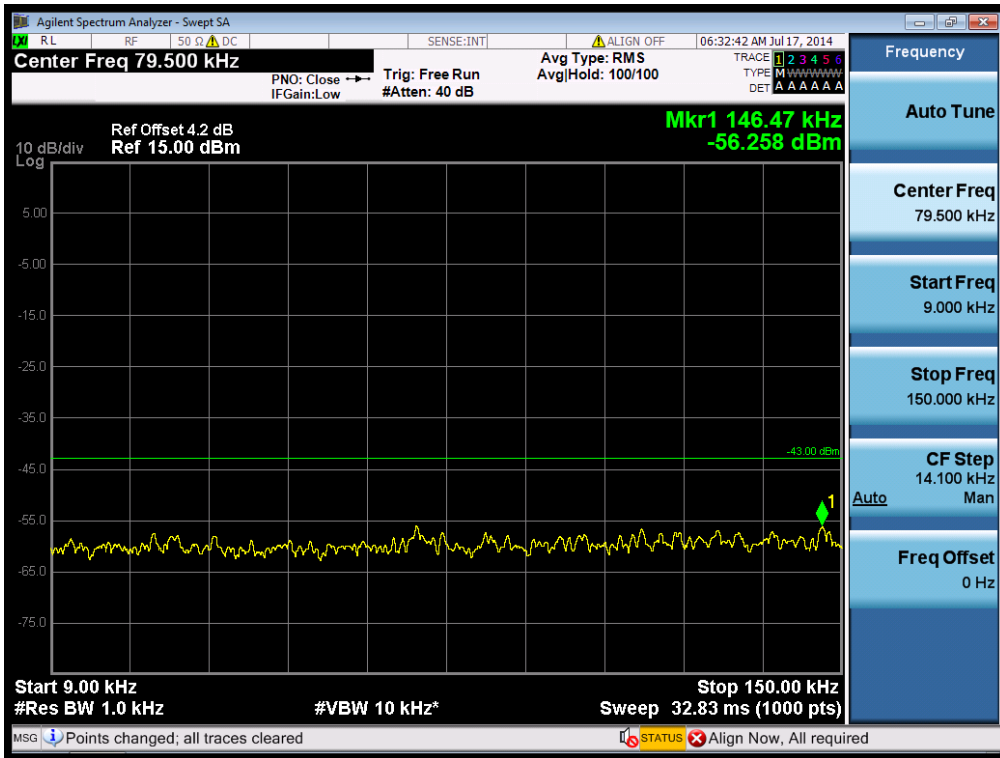


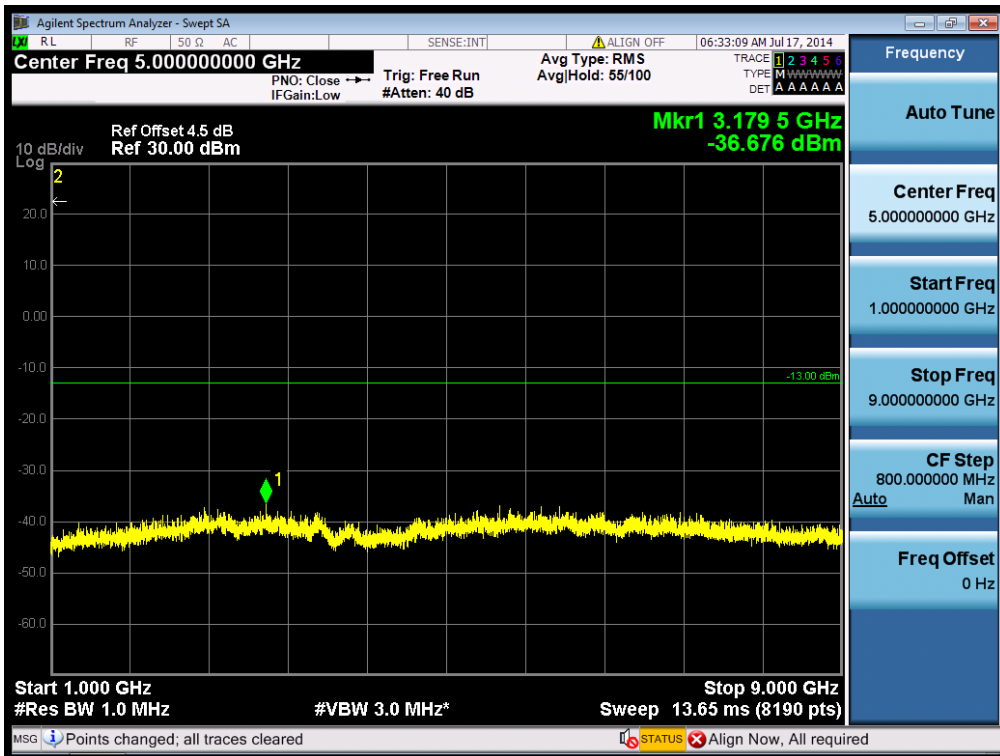
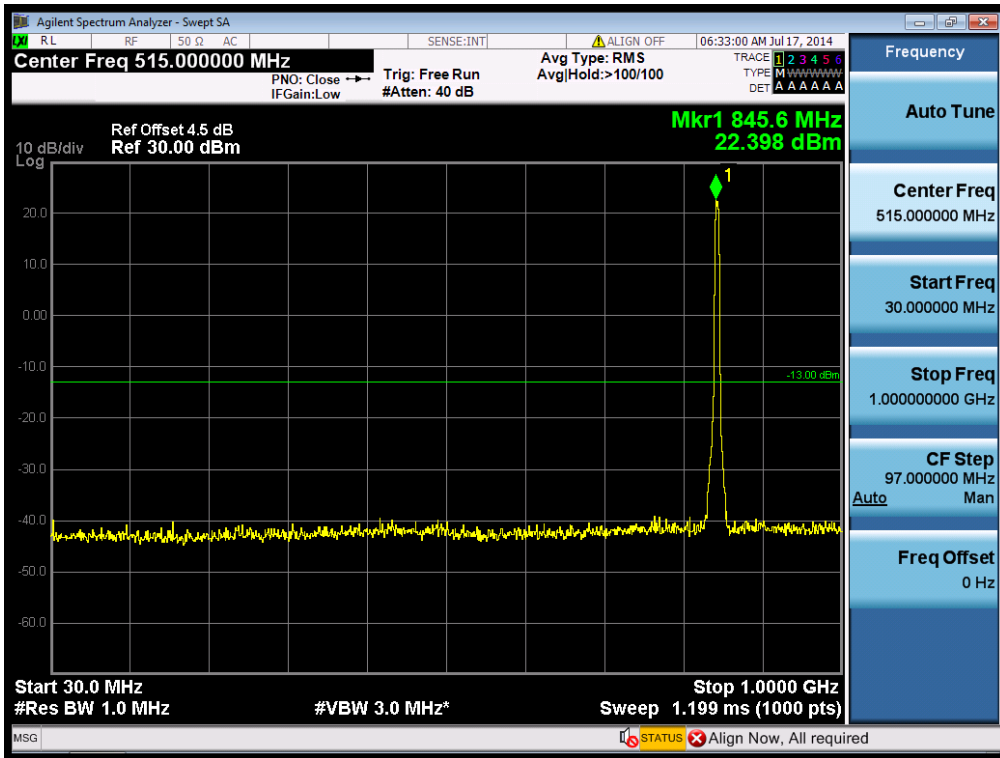
Test Channel=MCH





Test Channel=HCH

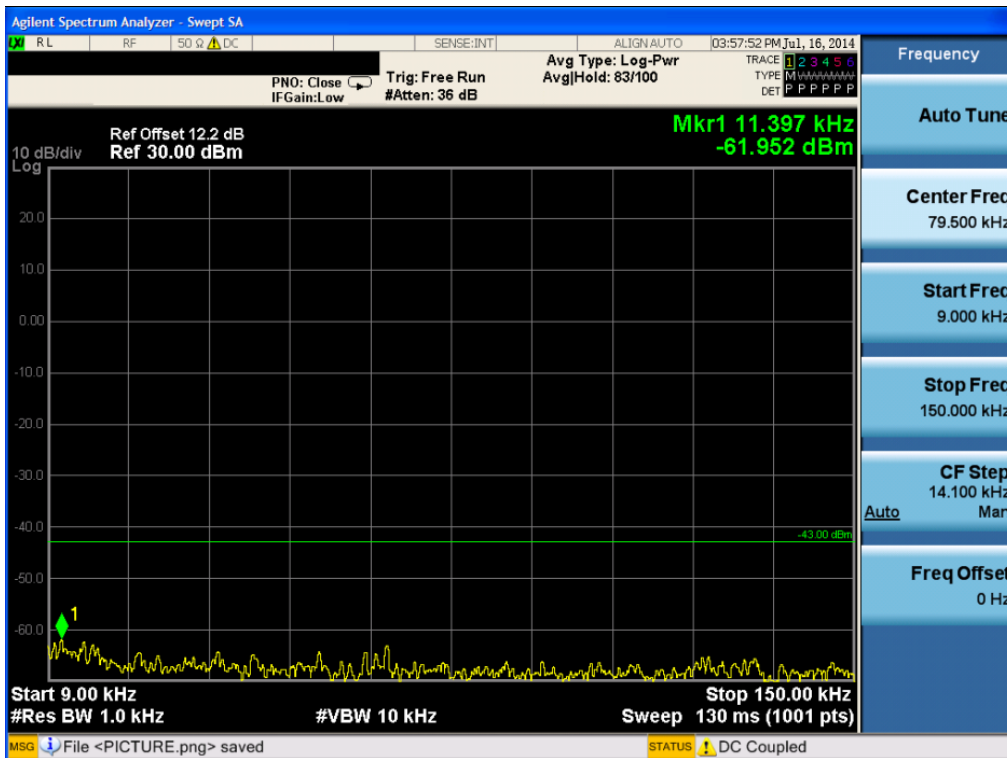


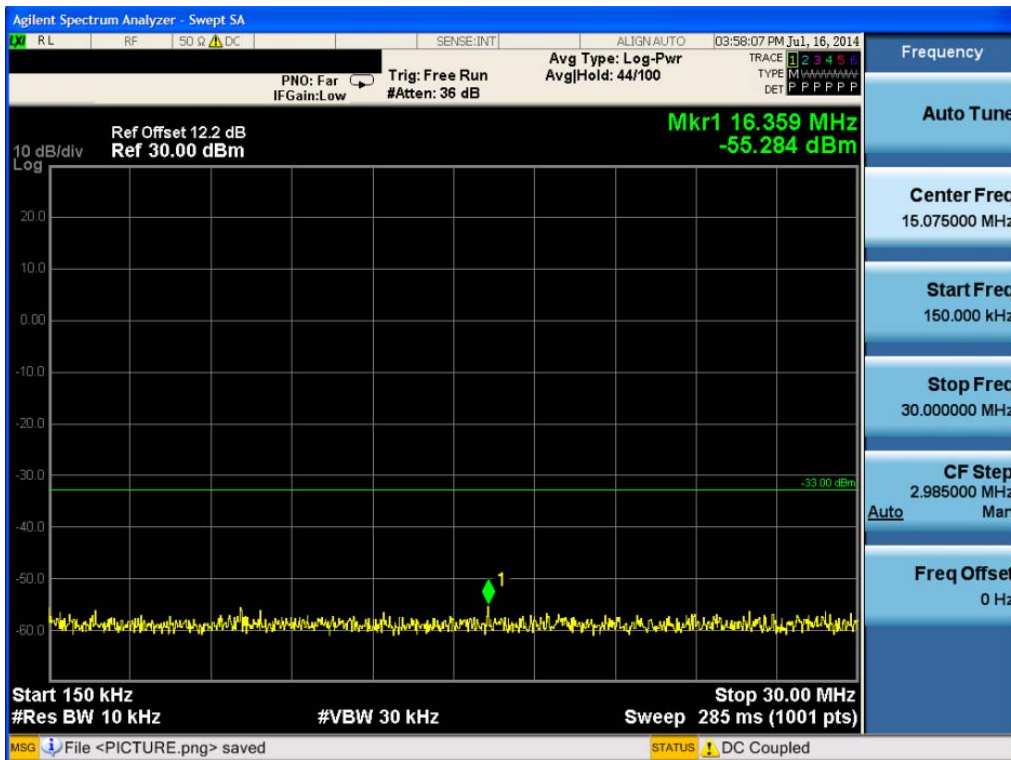






Test Channel=MCH



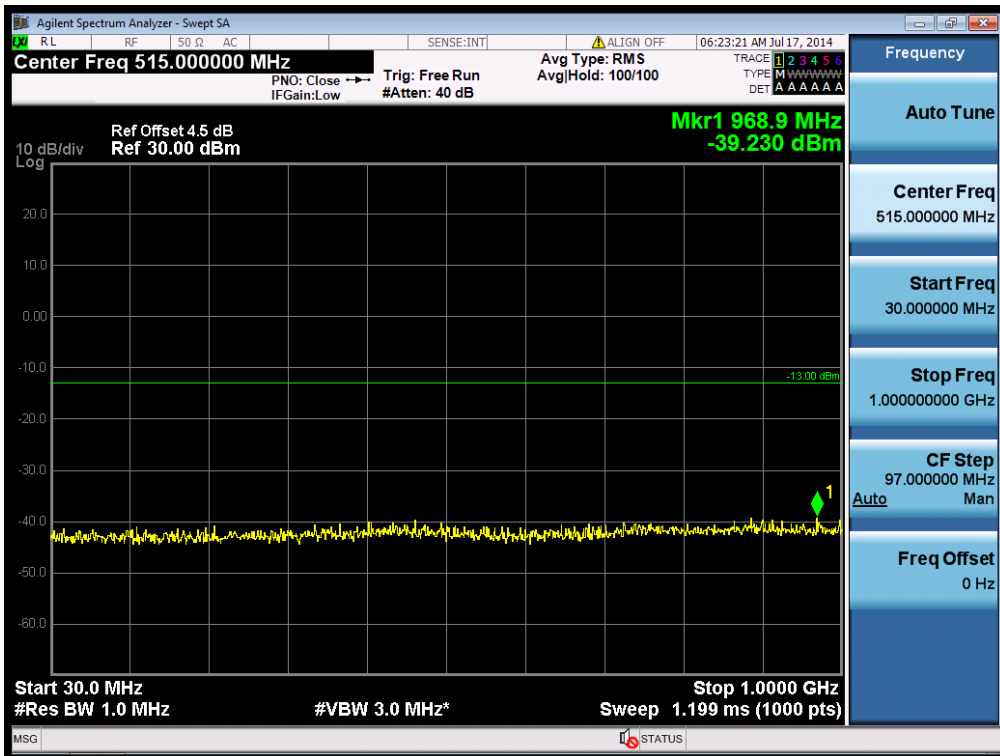
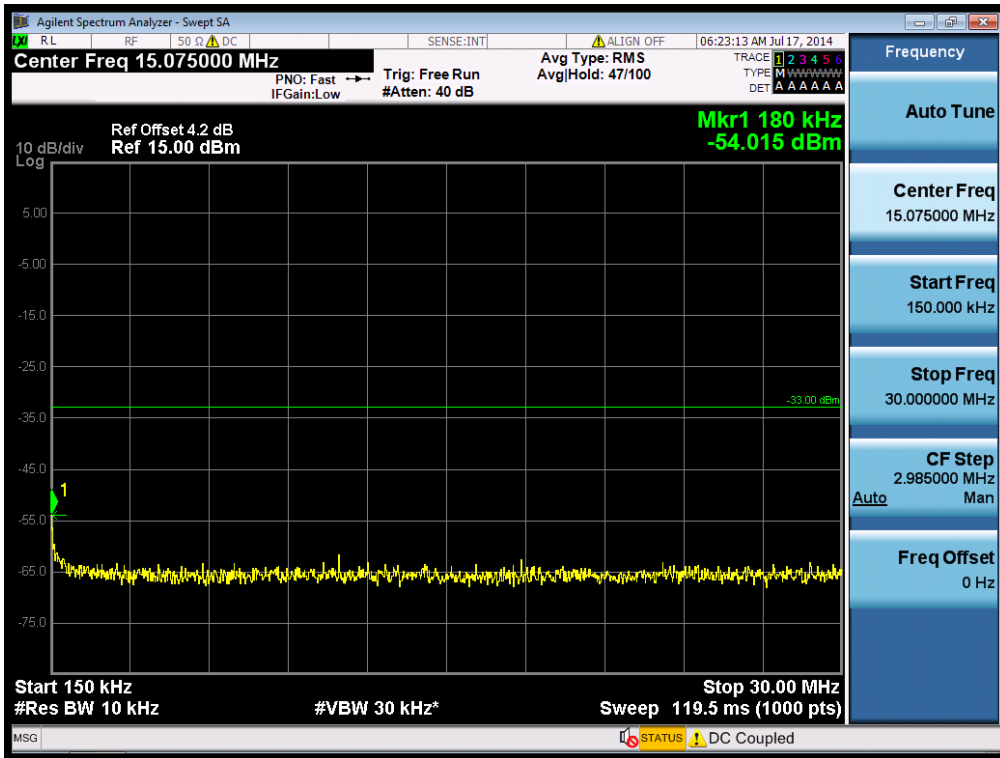


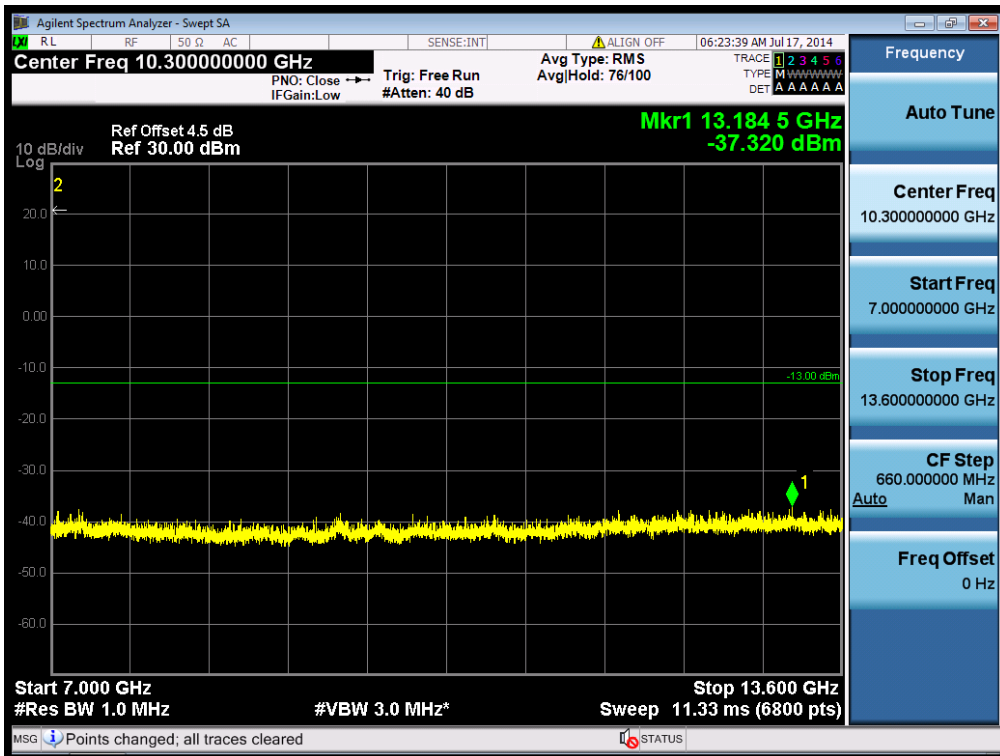
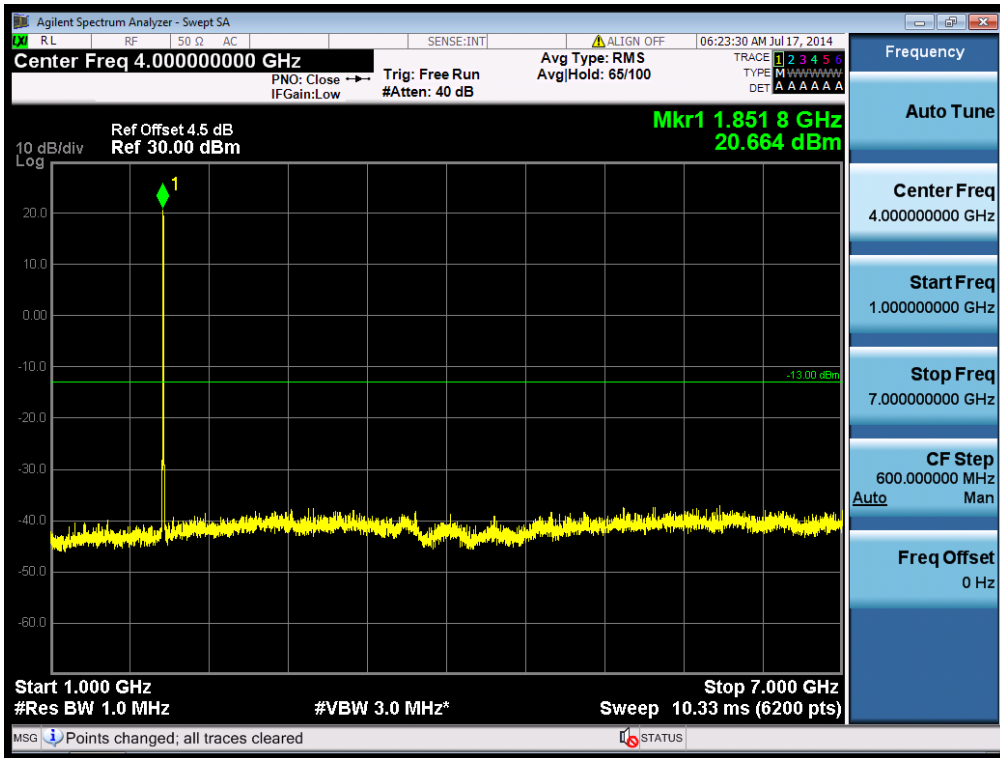
Test Channel=HCH

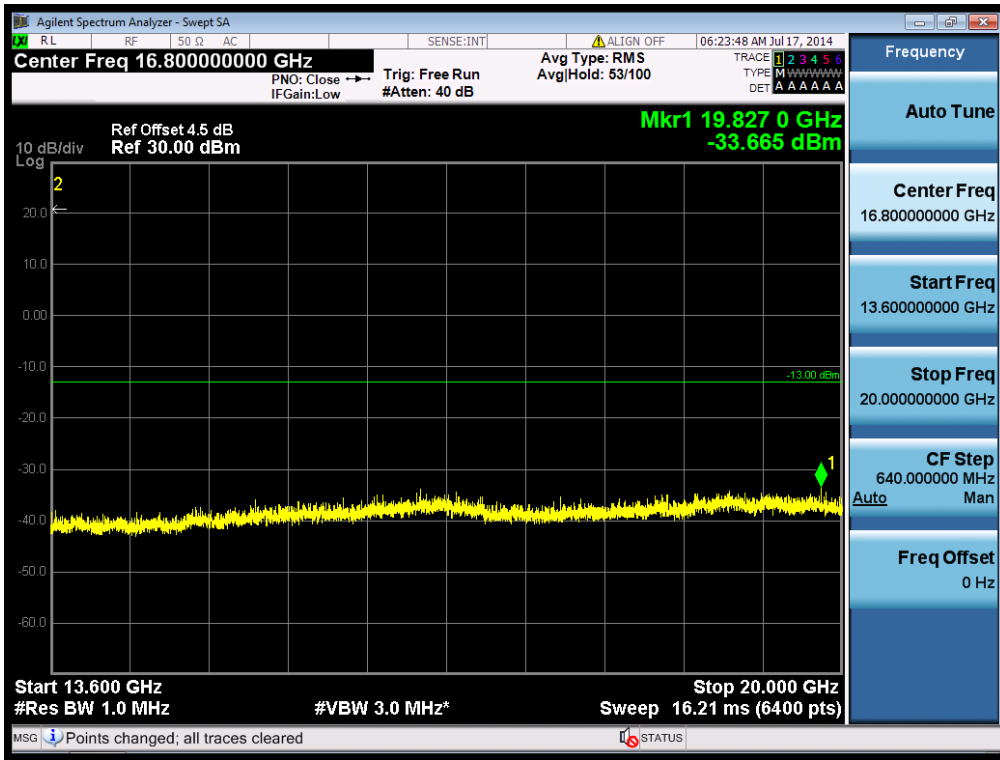




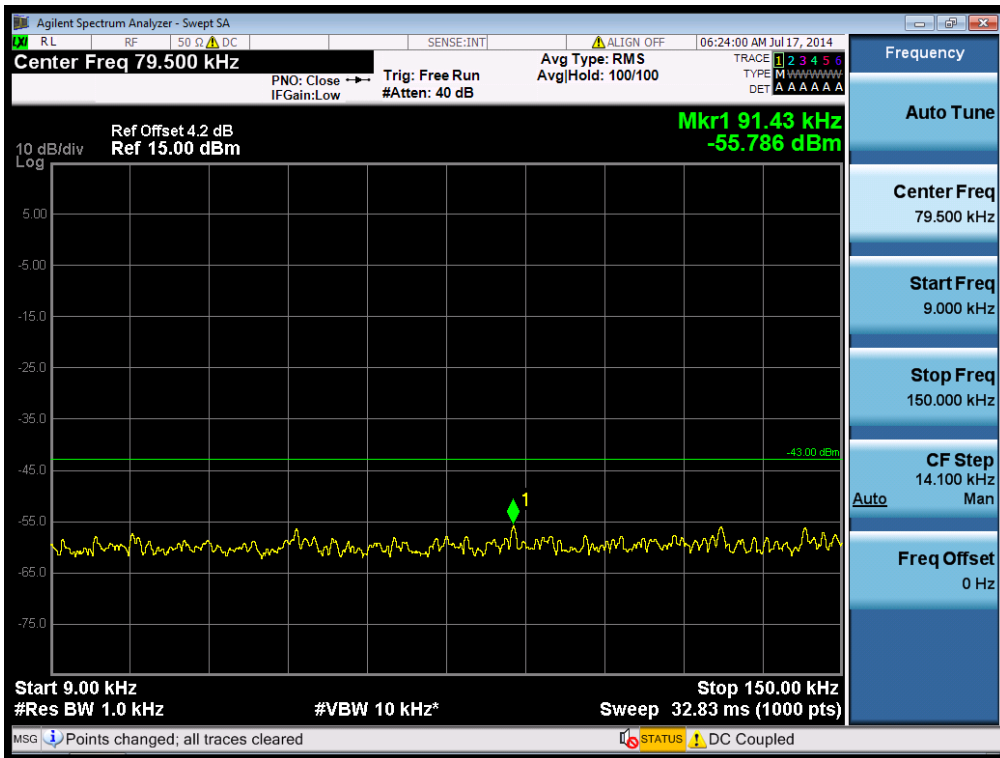




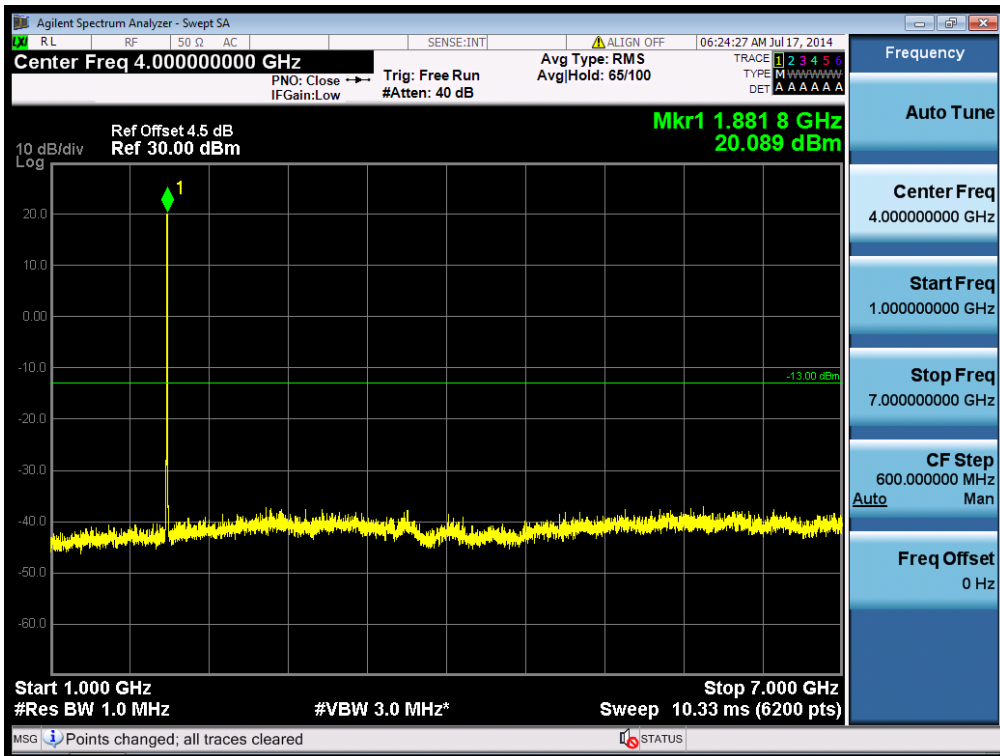
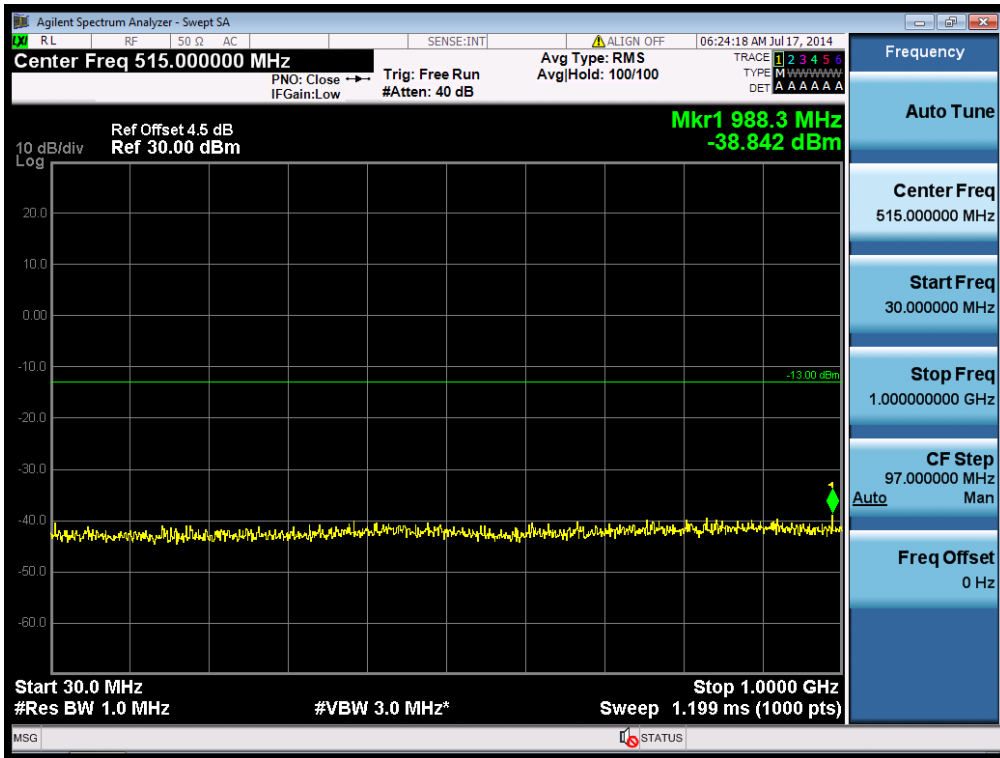


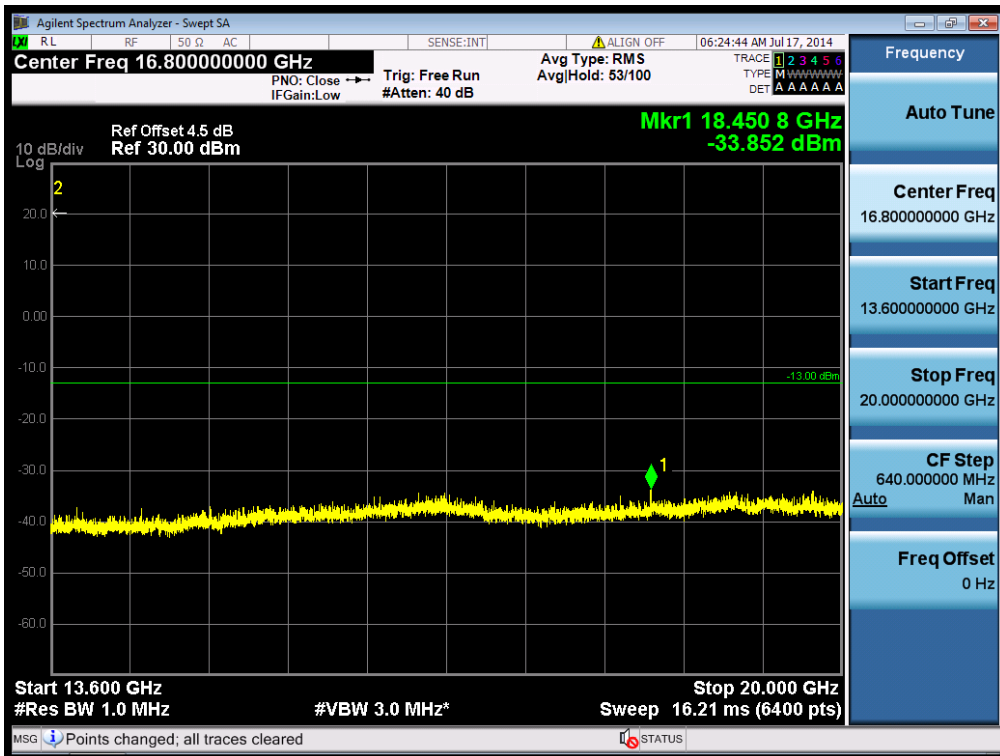
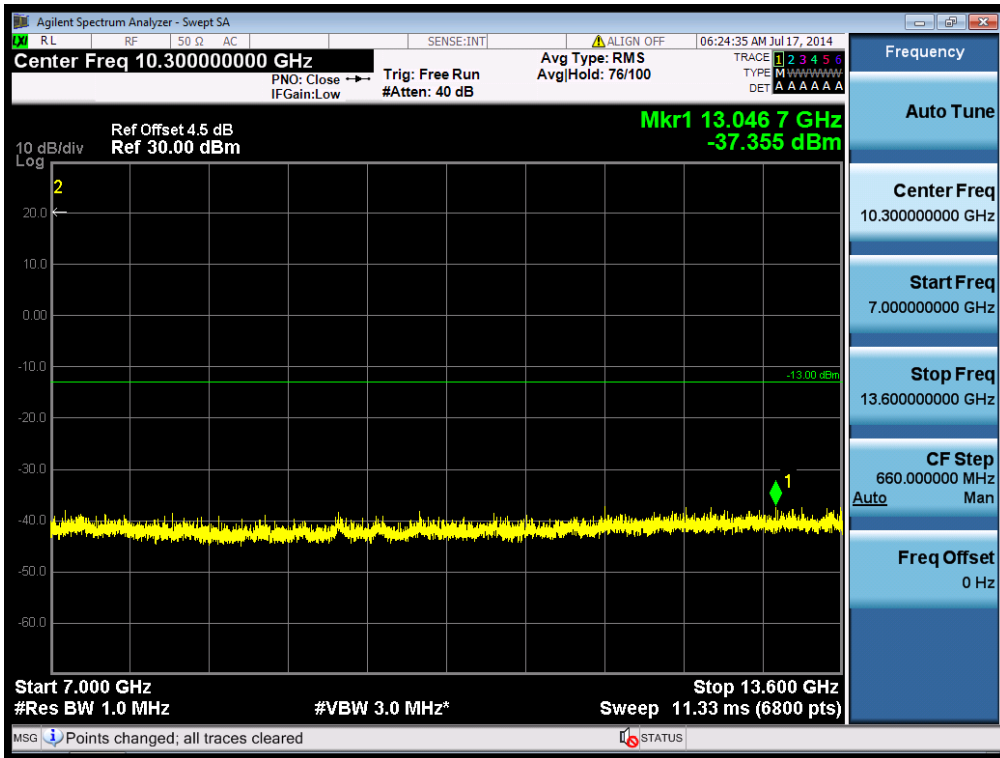


Test Channel=MCH

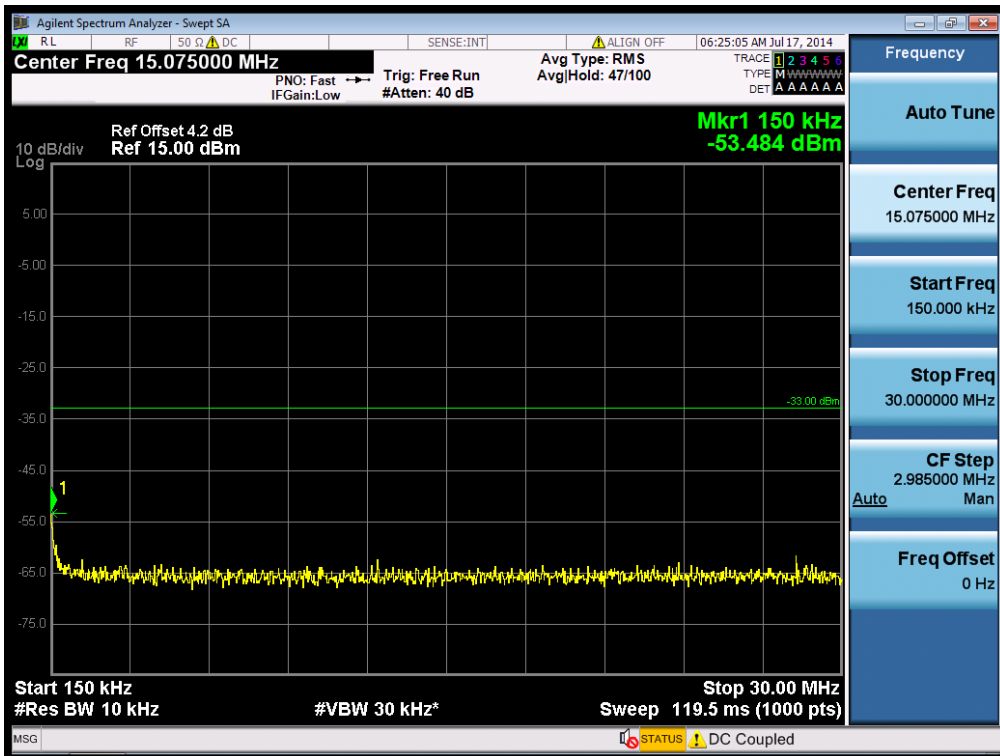
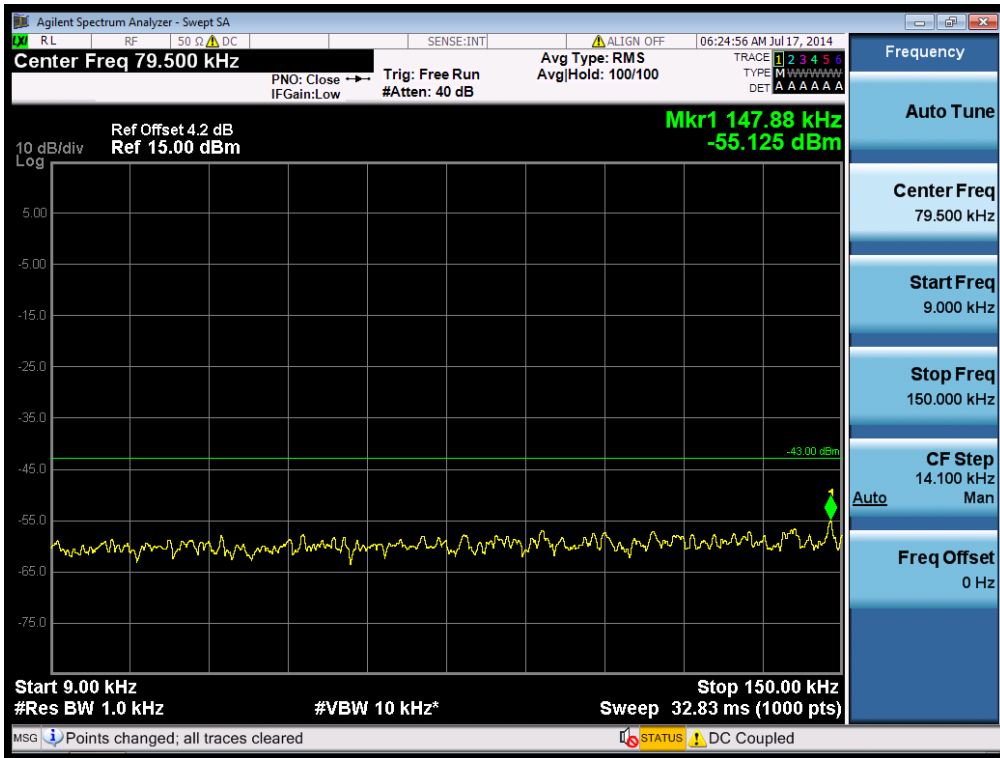


e

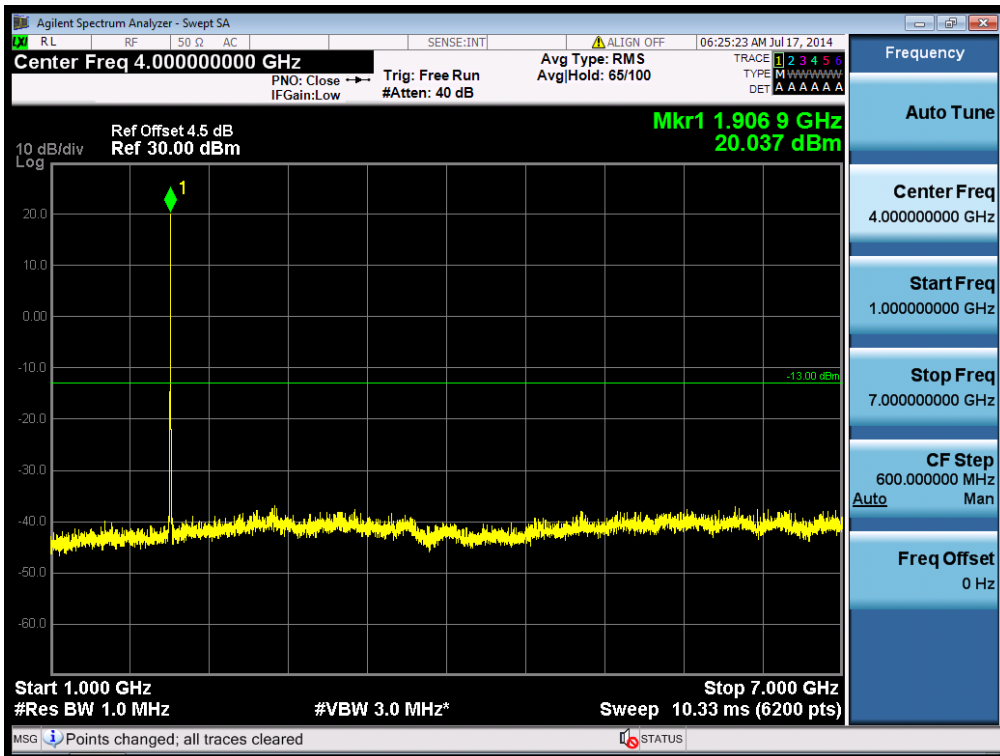
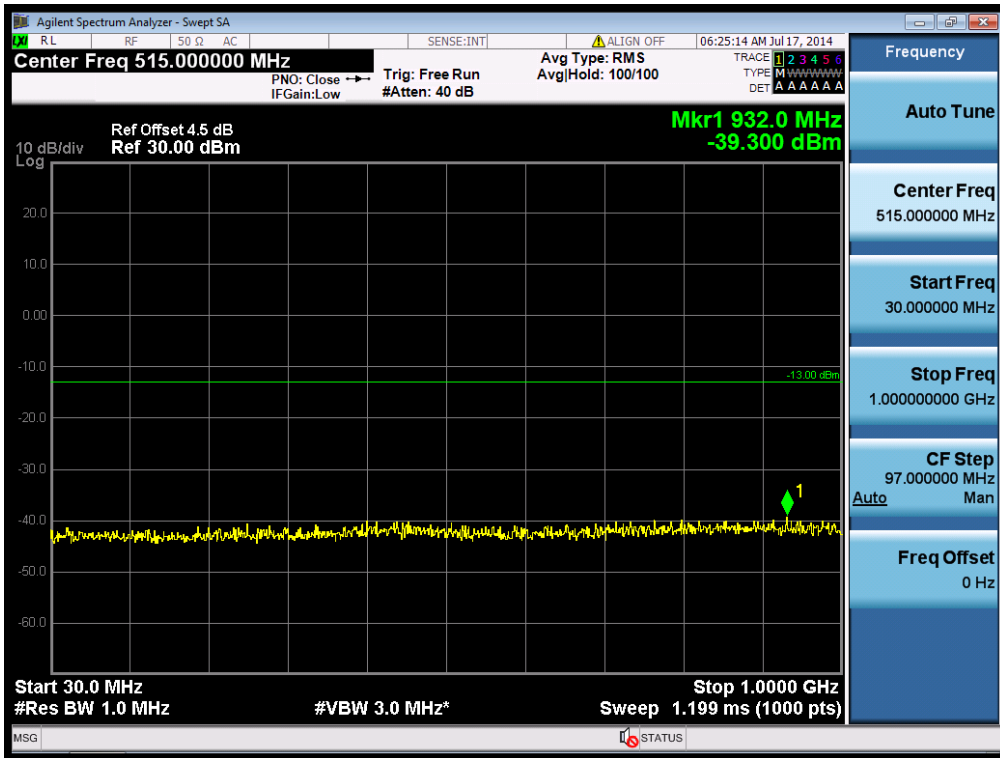


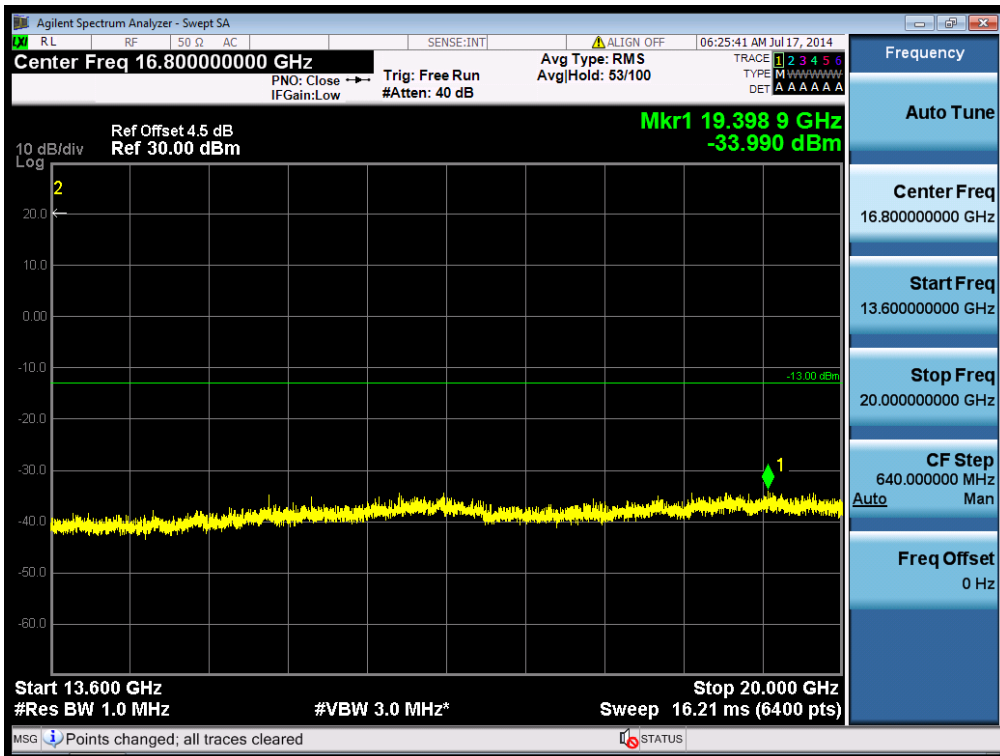
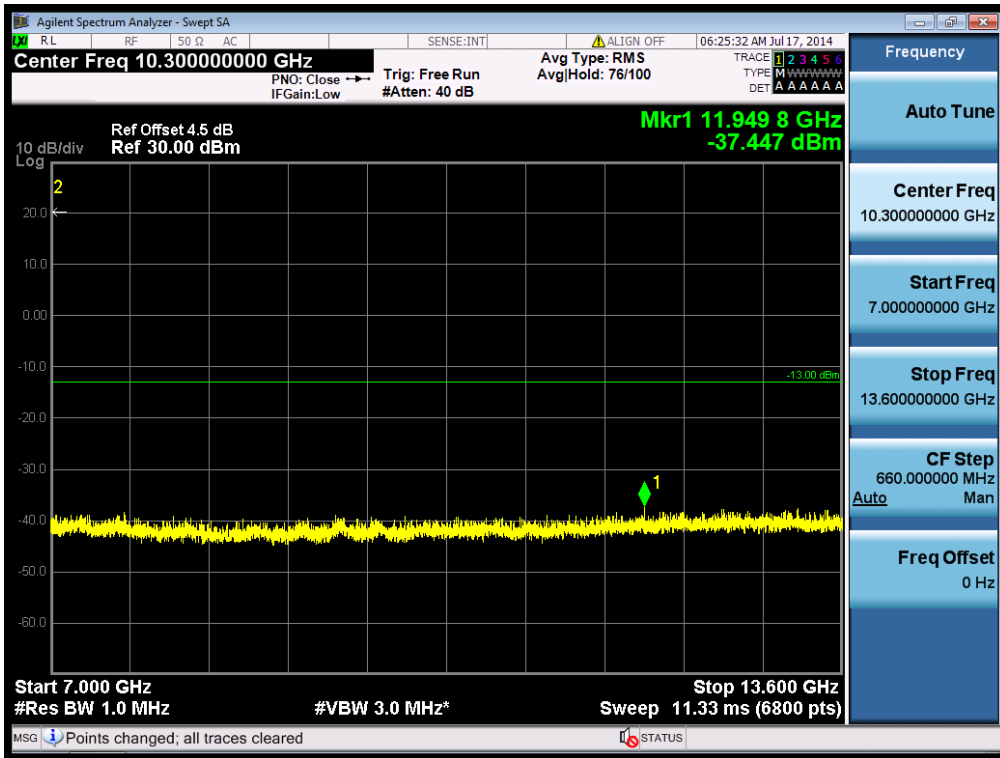


Test Channel=HCH









# Appendix G: Frequency Stability

## Test Results

### Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM1	LCH	TN	VL	-13.32	-0.02	± 2.5	PASS
			TN	VN	-11.56	-0.01	± 2.5	PASS
			TN	VH	-12.44	-0.01	± 2.5	PASS
		MCH	TN	VL	-14.47	-0.02	± 2.5	PASS
			TN	VN	-15.69	-0.02	± 2.5	PASS
			TN	VH	-13.98	-0.02	± 2.5	PASS
		HCH	TN	VL	-11.55	-0.01	± 2.5	PASS
			TN	VN	-17.78	-0.02	± 2.5	PASS
			TN	VH	-16.47	-0.02	± 2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM1	LCH	TN	VL	11.25	0.01	± 2.5	PASS
			TN	VN	12.66	0.01	± 2.5	PASS
			TN	VH	16.47	0.01	± 2.5	PASS
		MCH	TN	VL	14.47	0.01	± 2.5	PASS
			TN	VN	16.56	0.01	± 2.5	PASS
			TN	VH	11.89	0.01	± 2.5	PASS
		HCH	TN	VL	13.78	0.01	± 2.5	PASS
			TN	VN	17.47	0.01	± 2.5	PASS
			TN	VH	19.98	0.01	± 2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 850	TM1	LCH	TN	VL	21.47	0.03	±2.5	PASS
			TN	VN	22.45	0.03	±2.5	PASS
			TN	VH	20.36	0.02	±2.5	PASS
		MCH	TN	VL	21.47	0.03	±2.5	PASS
			TN	VN	21.69	0.03	±2.5	PASS
			TN	VH	22.65	0.03	±2.5	PASS
		HCH	TN	VL	23.47	0.03	±2.5	PASS
			TN	VN	22.55	0.03	±2.5	PASS
			TN	VH	21.98	0.03	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 170	TM1	LCH	TN	VL	-15.25	0.009	±2.5	PASS
			TN	VN	14.86	0.008	±2.5	PASS
			TN	VH	0.96	0.000	±2.5	PASS
		MCH	TN	VL	-8.58	0.005	±2.5	PASS
			TN	VN	-5.04	0.002	±2.5	PASS
			TN	VH	8.27	0.004	±2.5	PASS
		HCH	TN	VL	0.68	0.000	±2.5	PASS
			TN	VN	-14.53	0.008	±2.5	PASS
			TN	VH	15.53	0.008	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 1900	TM1	LCH	TN	VL	22.69	0.01	±2.5	PASS
			TN	VN	23.36	0.01	±2.5	PASS
			TN	VH	24.36	0.01	±2.5	PASS
		MCH	TN	VL	22.78	0.01	±2.5	PASS
			TN	VN	21.47	0.01	±2.5	PASS
			TN	VH	25.69	0.01	±2.5	PASS
		HCH	TN	VL	23.47	0.01	±2.5	PASS
			TN	VN	22.77	0.01	±2.5	PASS
			TN	VH	21.69	0.01	±2.5	PASS

## Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM1	LCH	VN	-30	-17.36	-0.02	± 2.5	PASS
			VN	-20	-17.48	-0.02	± 2.5	PASS
			VN	-10	-21.26	-0.03	± 2.5	PASS
			VN	0	-20.35	-0.02	± 2.5	PASS
			VN	10	-21.47	-0.03	± 2.5	PASS
			VN	20	-21.69	-0.03	± 2.5	PASS
			VN	30	-21.78	-0.03	± 2.5	PASS
			VN	40	-19.65	-0.02	± 2.5	PASS
			VN	50	-18.33	-0.02	± 2.5	PASS
GSM850	TM1	MCH	VN	-30	-17.58	-0.02	± 2.5	PASS
			VN	-20	-16.98	-0.02	± 2.5	PASS
			VN	-10	-19.36	-0.02	± 2.5	PASS
			VN	0	-21.42	-0.03	± 2.5	PASS
			VN	10	-19.86	-0.02	± 2.5	PASS
			VN	20	-21.35	-0.03	± 2.5	PASS
			VN	30	-22.74	-0.03	± 2.5	PASS
			VN	40	-19.33	-0.02	± 2.5	PASS
			VN	50	-18.45	-0.02	± 2.5	PASS
GSM850	TM1	HCH	VN	-30	-18.96	-0.02	± 2.5	PASS
			VN	-20	-14.74	-0.02	± 2.5	PASS
			VN	-10	-16.55	-0.02	± 2.5	PASS
			VN	0	-13.23	-0.02	± 2.5	PASS
			VN	10	-18.69	-0.02	± 2.5	PASS
			VN	20	-17.15	-0.02	± 2.5	PASS
			VN	30	-18.22	-0.02	± 2.5	PASS
			VN	40	-20.36	-0.02	± 2.5	PASS
			VN	50	-21.47	-0.03	± 2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM1	LCH	VN	-30	15.36	0.01	± 2.5	PASS
			VN	-20	18.25	0.01	± 2.5	PASS
			VN	-10	17.45	0.01	± 2.5	PASS
			VN	0	16.96	0.01	± 2.5	PASS
			VN	10	14.85	0.01	± 2.5	PASS
			VN	20	15.69	0.01	± 2.5	PASS
			VN	30	15.55	0.01	± 2.5	PASS
			VN	40	16.98	0.01	± 2.5	PASS
			VN	50	17.62	0.01	± 2.5	PASS
GSM1900	TM1	MCH	VN	-30	16.35	0.01	± 2.5	PASS
			VN	-20	20.45	0.01	± 2.5	PASS
			VN	-10	19.26	0.01	± 2.5	PASS
			VN	0	20.10	0.01	± 2.5	PASS
			VN	10	17.05	0.01	± 2.5	PASS
			VN	20	19.06	0.01	± 2.5	PASS
			VN	30	22.42	0.01	± 2.5	PASS
			VN	40	21.36	0.01	± 2.5	PASS
			VN	50	19.22	0.01	± 2.5	PASS
GSM1900	TM1	HCH	VN	-30	21.36	0.01	± 2.5	PASS
			VN	-20	22.14	0.01	± 2.5	PASS
			VN	-10	22.14	0.01	± 2.5	PASS
			VN	0	20.47	0.01	± 2.5	PASS
			VN	10	14.65	0.01	± 2.5	PASS
			VN	20	22.47	0.01	± 2.5	PASS
			VN	30	15.69	0.01	± 2.5	PASS
			VN	40	14.23	0.01	± 2.5	PASS
			VN	50	20.69	0.01	± 2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 850	TM1	LCH	VN	-30	22.34	0.03	± 2.5	PASS
			VN	-20	22.82	0.03	± 2.5	PASS
			VN	-10	22.73	0.03	± 2.5	PASS
			VN	0	21.91	0.03	± 2.5	PASS
			VN	10	22.48	0.03	± 2.5	PASS
			VN	20	25.11	0.03	± 2.5	PASS
			VN	30	23.64	0.03	± 2.5	PASS
			VN	40	21.67	0.03	± 2.5	PASS
			VN	50	21.88	0.03	± 2.5	PASS
WCDMA 850	TM1	MCH	VN	-30	22.02	0.03	± 2.5	PASS
			VN	-20	22.31	0.03	± 2.5	PASS
			VN	-10	24.75	0.03	± 2.5	PASS
			VN	0	24.26	0.03	± 2.5	PASS
			VN	10	24.94	0.03	± 2.5	PASS
			VN	20	24.14	0.03	± 2.5	PASS
			VN	30	23.46	0.03	± 2.5	PASS
			VN	40	22.25	0.03	± 2.5	PASS
			VN	50	24.12	0.03	± 2.5	PASS
WCDMA 850	TM1	HCH	VN	-30	22.25	0.03	± 2.5	PASS
			VN	-20	20.31	0.02	± 2.5	PASS
			VN	-10	19.40	0.02	± 2.5	PASS
			VN	0	19.75	0.02	± 2.5	PASS
			VN	10	18.36	0.02	± 2.5	PASS
			VN	20	20.02	0.02	± 2.5	PASS
			VN	30	18.47	0.02	± 2.5	PASS
			VN	40	19.07	0.02	± 2.5	PASS
			VN	50	20.78	0.02	± 2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 1700	TM1	LCH	VN	-30	-34.25	0.02	± 2.5	PASS
			VN	-20	-34.21	0.02	± 2.5	PASS
			VN	-10	17.12	0.01	± 2.5	PASS
			VN	0	-34.29	0.02	± 2.5	PASS
			VN	10	17.15	0.01	± 2.5	PASS
			VN	20	-34.22	0.02	± 2.5	PASS
			VN	30	34.31	0.02	± 2.5	PASS
			VN	40	-34.26	0.02	± 2.5	PASS
			VN	50	34.28	0.02	± 2.5	PASS
WCDMA 1700	TM1	MCH	VN	-30	34.69	0.02	± 2.5	PASS
			VN	-20	-34.61	0.02	± 2.5	PASS
			VN	-10	-34.66	0.02	± 2.5	PASS
			VN	0	-17.36	0.01	± 2.5	PASS
			VN	10	34.68	0.02	± 2.5	PASS
			VN	20	34.72	0.02	± 2.5	PASS
			VN	30	-17.36	0.01	± 2.5	PASS
			VN	40	-34.60	0.02	± 2.5	PASS
			VN	50	34.66	0.02	± 2.5	PASS
WCDMA 1700	TM1	HCH	VN	-30	35.09	0.02	± 2.5	PASS
			VN	-20	-35.10	0.02	± 2.5	PASS
			VN	-10	-35.16	0.02	± 2.5	PASS
			VN	0	17.59	0.01	± 2.5	PASS
			VN	10	-34.96	0.02	± 2.5	PASS
			VN	20	-35.12	0.02	± 2.5	PASS
			VN	30	35.09	0.02	± 2.5	PASS
			VN	40	-17.62	0.01	± 2.5	PASS
			VN	50	35.24	0.02	± 2.5	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 1900	TM1	LCH	VN	-30	35.69	0.02	± 2.5	PASS
			VN	-20	37.48	0.02	± 2.5	PASS
			VN	-10	34.65	0.02	± 2.5	PASS
			VN	0	33.47	0.02	± 2.5	PASS
			VN	10	35.68	0.02	± 2.5	PASS
			VN	20	33.89	0.02	± 2.5	PASS
			VN	30	32.44	0.02	± 2.5	PASS
			VN	40	33.78	0.02	± 2.5	PASS
			VN	50	35.69	0.02	± 2.5	PASS
WCDMA 1900	TM1	MCH	VN	-30	37.98	0.02	± 2.5	PASS
			VN	-20	36.55	0.02	± 2.5	PASS
			VN	-10	40.15	0.02	± 2.5	PASS
			VN	0	34.65	0.02	± 2.5	PASS
			VN	10	35.69	0.02	± 2.5	PASS
			VN	20	32.65	0.02	± 2.5	PASS
			VN	30	33.48	0.02	± 2.5	PASS
			VN	40	38.65	0.02	± 2.5	PASS
			VN	50	37.85	0.02	± 2.5	PASS
WCDMA 1900	TM1	HCH	VN	-30	39.65	0.02	± 2.5	PASS
			VN	-20	38.41	0.02	± 2.5	PASS
			VN	-10	37.20	0.02	± 2.5	PASS
			VN	0	39.36	0.02	± 2.5	PASS
			VN	10	35.47	0.02	± 2.5	PASS
			VN	20	41.20	0.02	± 2.5	PASS
			VN	30	38.20	0.02	± 2.5	PASS
			VN	40	38.65	0.02	± 2.5	PASS
			VN	50	37.45	0.02	± 2.5	PASS

# Appendix H: Radiated spurious emission

## GSM 850

Test Frequency Range: 30MHz-10GHz

MCH

Frequency (MHz)	Amp. Level (dBm)	Limit (dBm)	Margin (dB)	polarity
1698	-25.70	-13	12.70	H
4245	-29.35	-13	16.35	H
7643	-30.26	-13	17.26	H
1698	-22.47	-13	9.47	V
7643	-25.69	-13	12.69	V

Remark: No outstanding emissions can be detected.

## GSM 1900

Test Frequency Range: 30MHz-20GHz

MCH

Frequency (MHz)	Amp. Level (dBm)	Limit (dBm)	Margin (dB)	polarity
3565	-26.68	-13	13.68	H
8950	-35.58	-13	22.58	H
1845	-22.47	-13	9.47	V
10560	-36.58	-13	23.58	V

Remark: No outstanding emissions can be detected.

## WCDMA Band II

Test Frequency Range: 30MHz-20GHz

MCH

Frequency (MHz)	Amp. Level (dBm)	Limit (dBm)	Margin (dB)	polarity
245	-22.65	-13	9.65	H
245	-24.65	-13	11.65	V
8441	-27.69	-13	14.69	H
8927	-26.41	-13	13.41	V

Remark: No outstanding emissions can be detected.

## WCDMA Band IV

Test Frequency Range: 30MHz-18GHz

MCH

Frequency (MHz)	Amp. Level (dBm)	Limit (dBm)	Margin (dB)	polarity
5138	-27.14	-13	14.14	H
3428	-25.69	-13	12.69	V
5138	-28.46	-13	15.46	V

Remark: No outstanding emissions can be detected.

## WCDMA Band V

Test Frequency Range: 30MHz-10GHz

MCH

Frequency (MHz)	Amp. Level (dBm)	Limit (dBm)	Margin (dB)	polarity
3864	-28.36	-13	15.36	H
8441	-27.15	-13	14.15	H
4234	-27.69	-13	14.69	V
8441	-29.21	-13	16.21	V

Remark: No outstanding emissions can be detected.