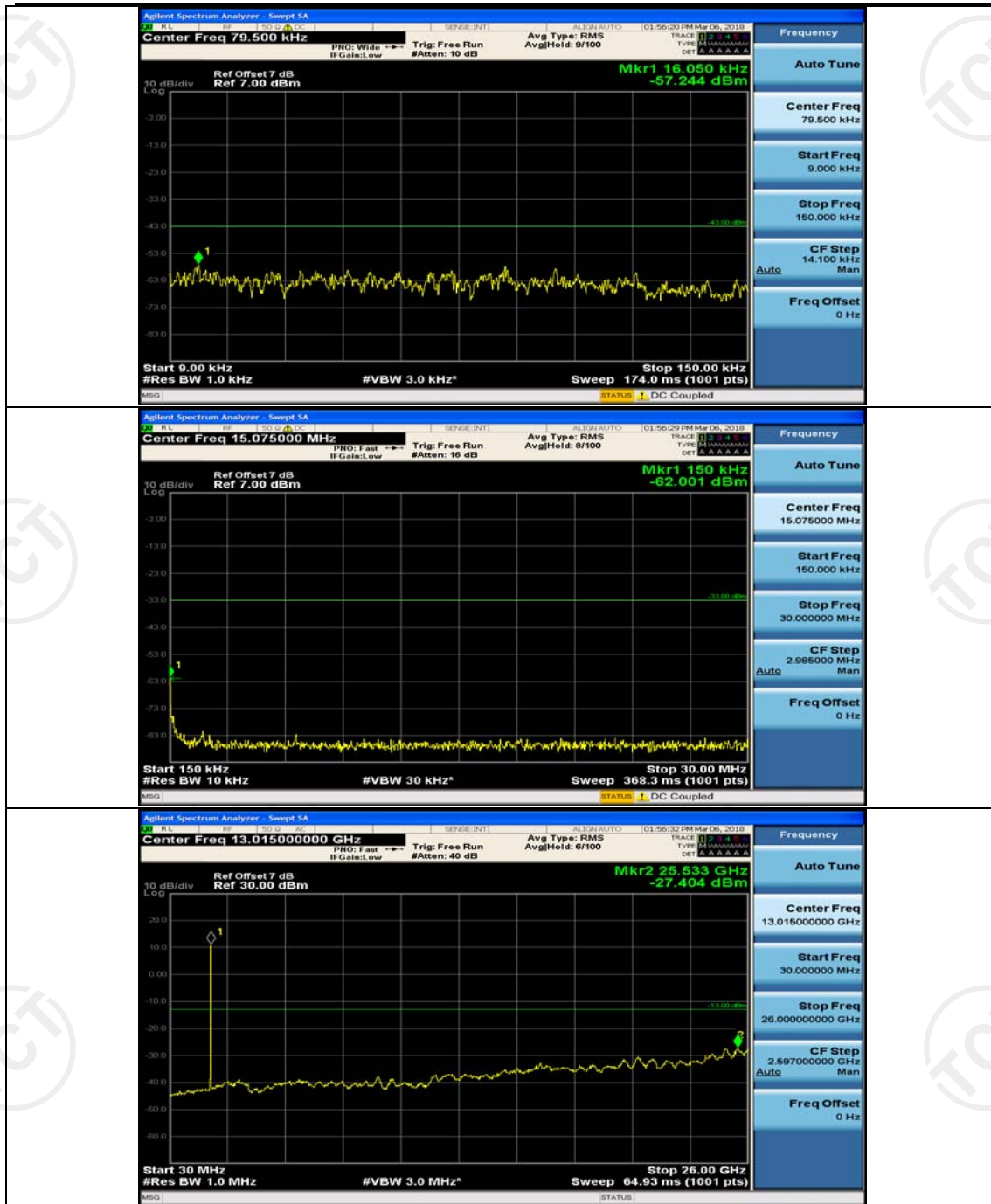
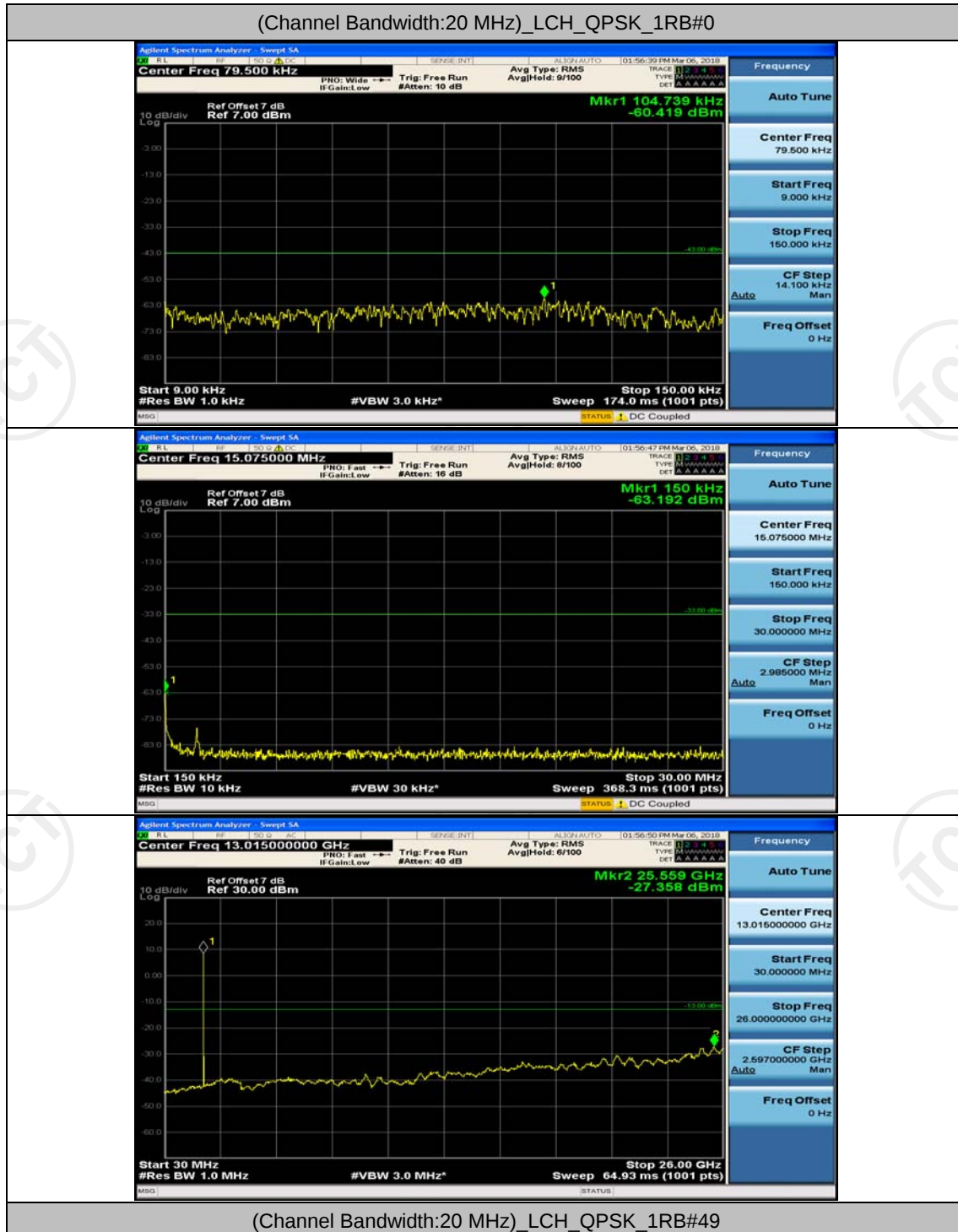
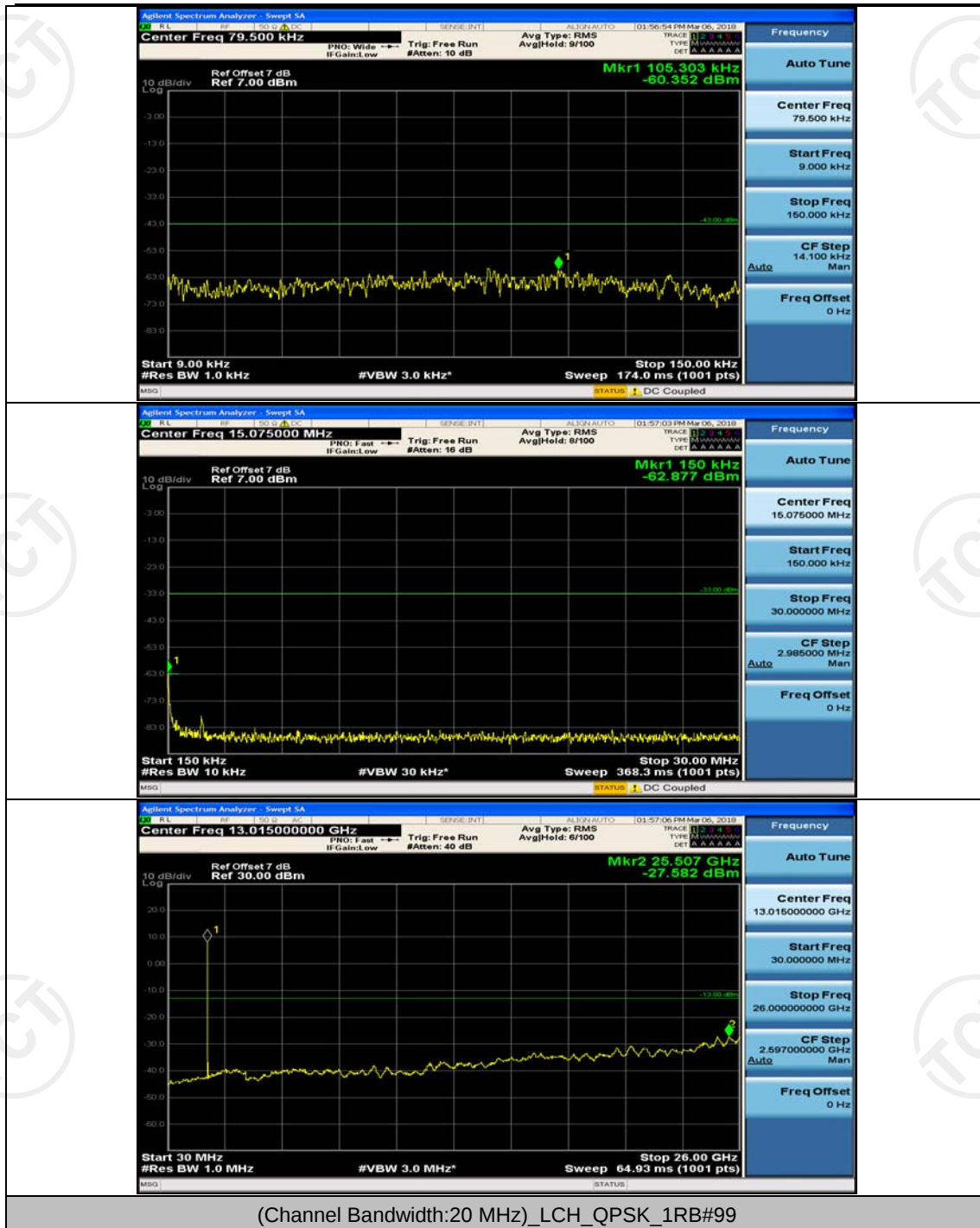
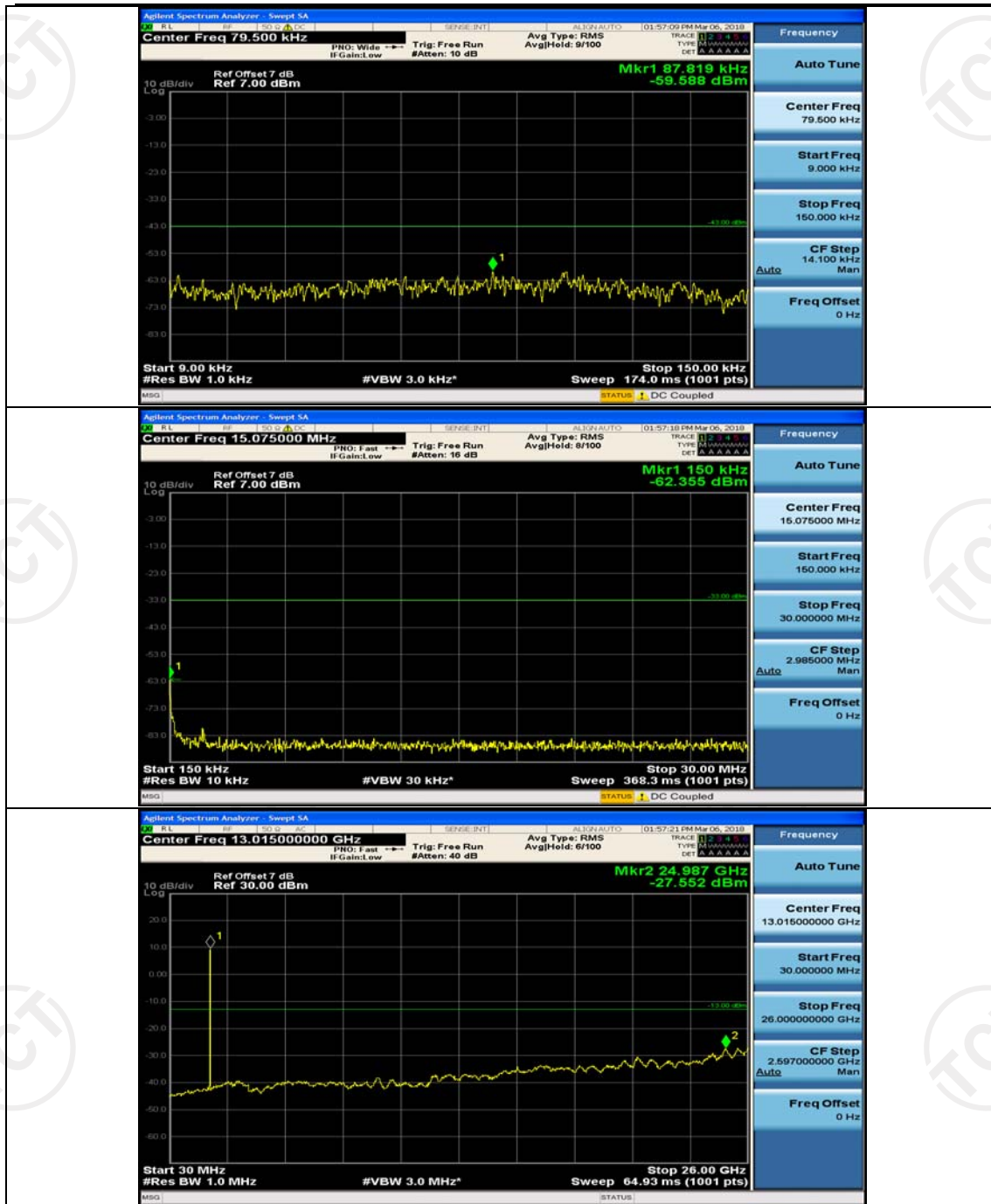




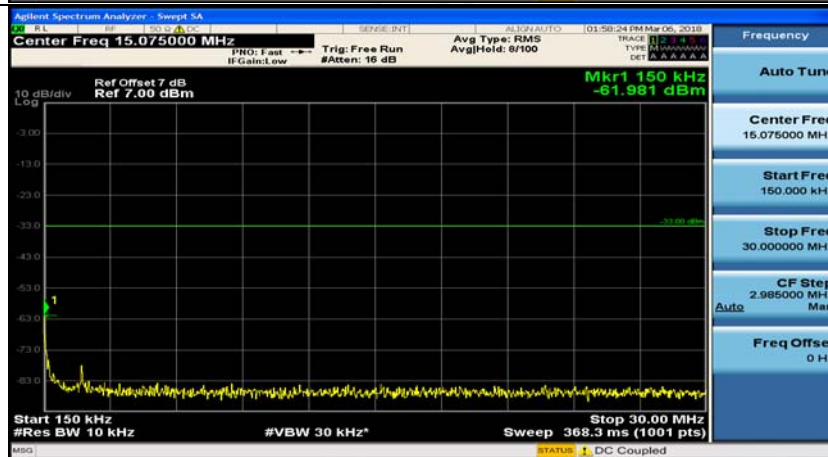
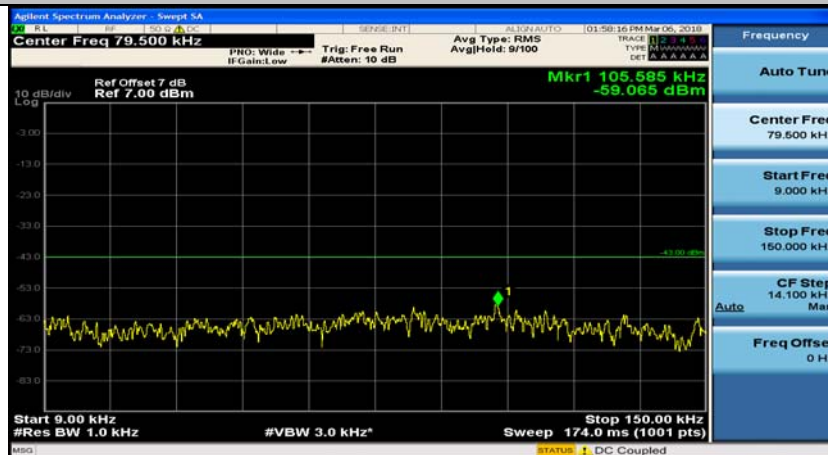
Channel Bandwidth: 20 MHz



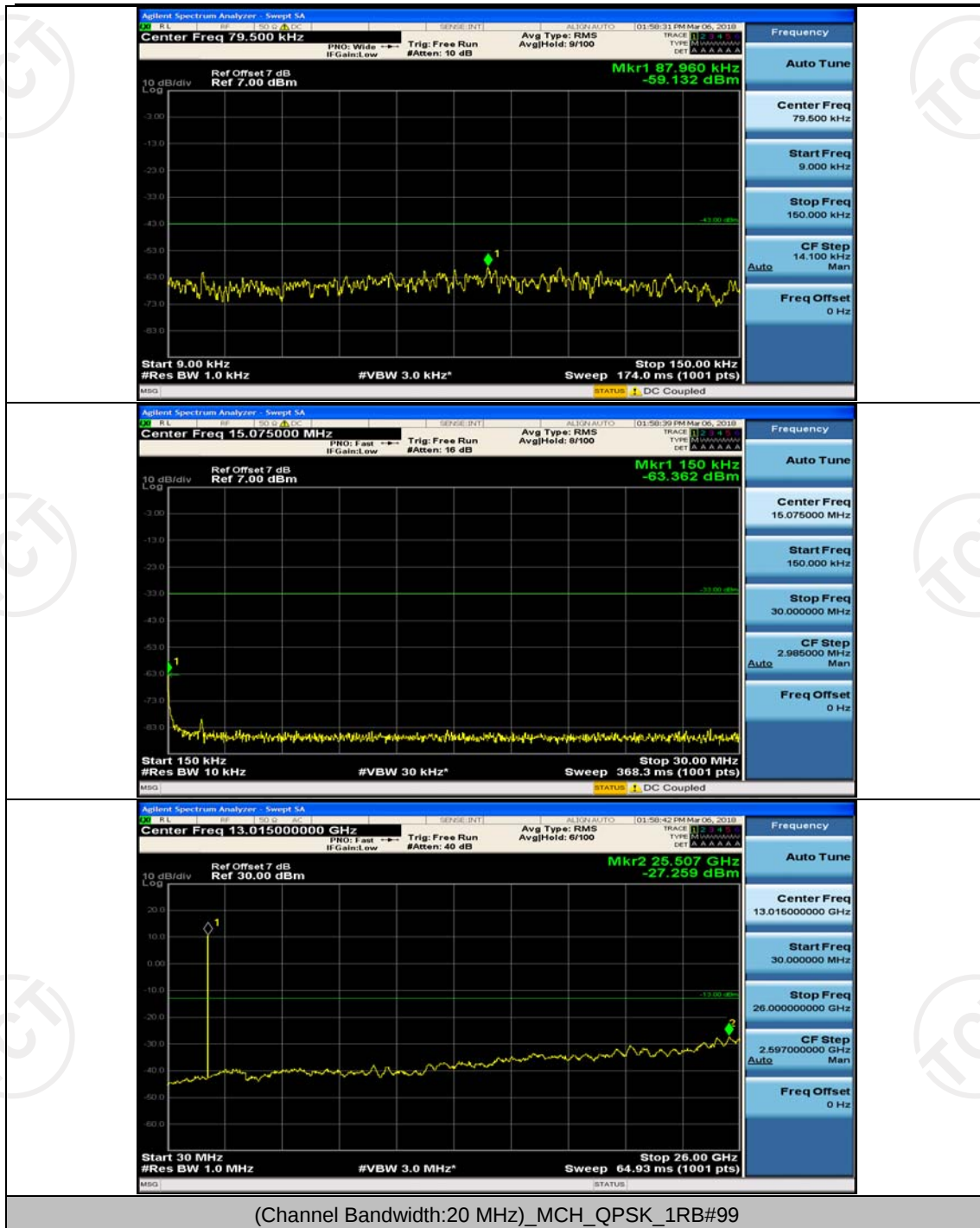


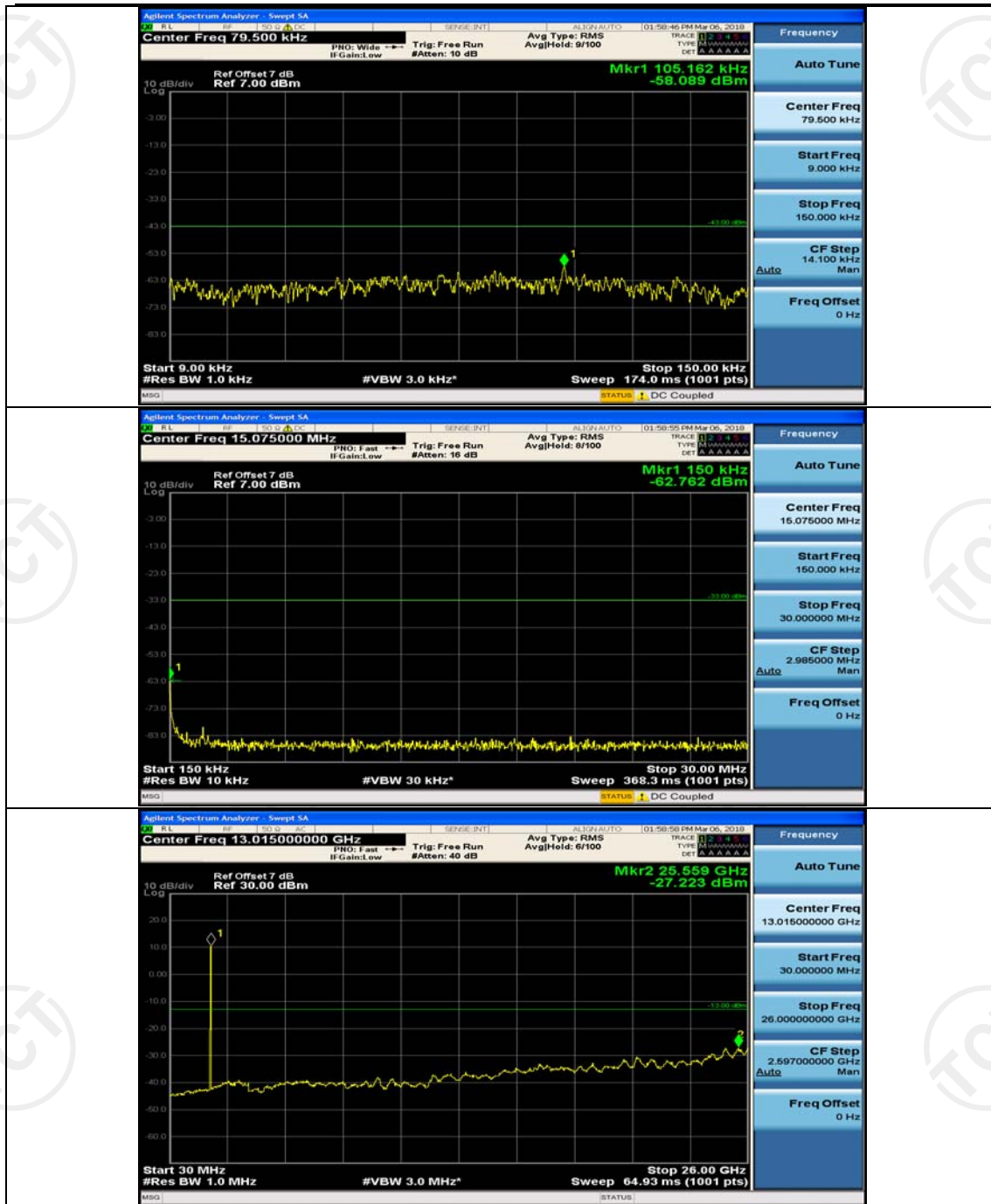


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

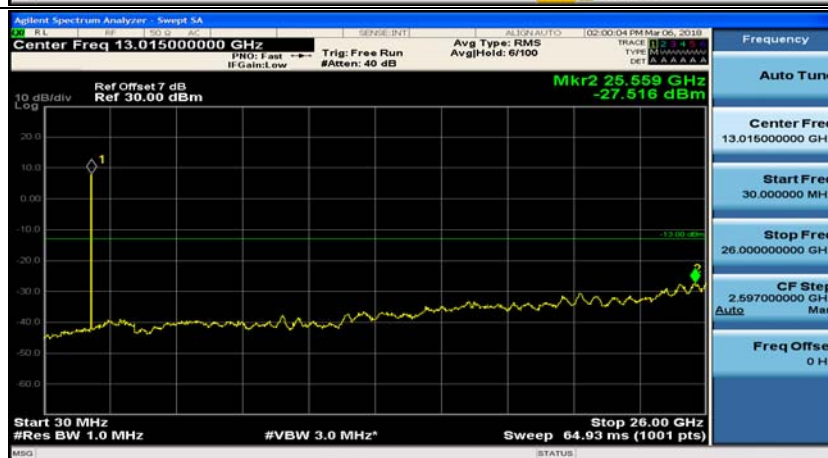
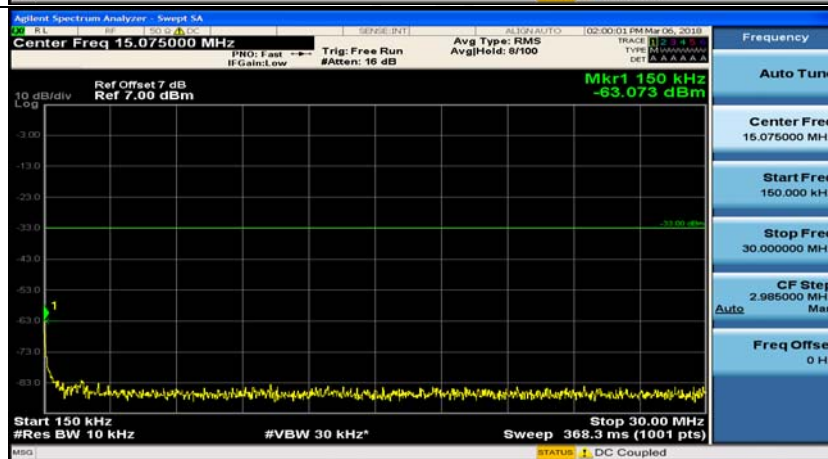
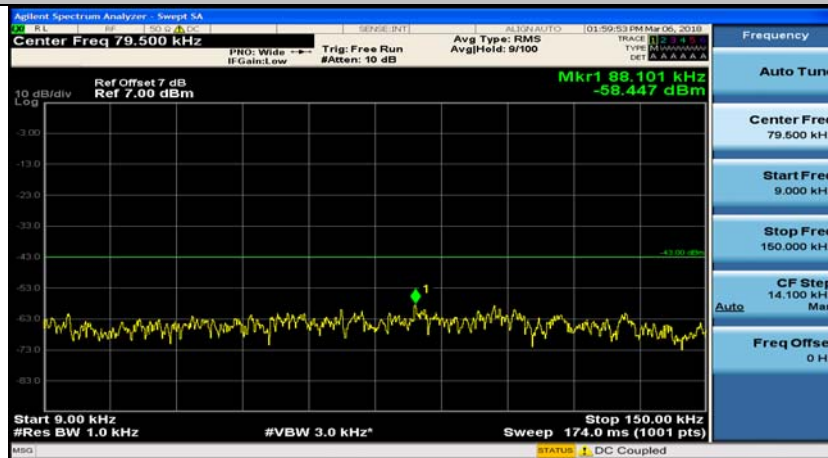


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

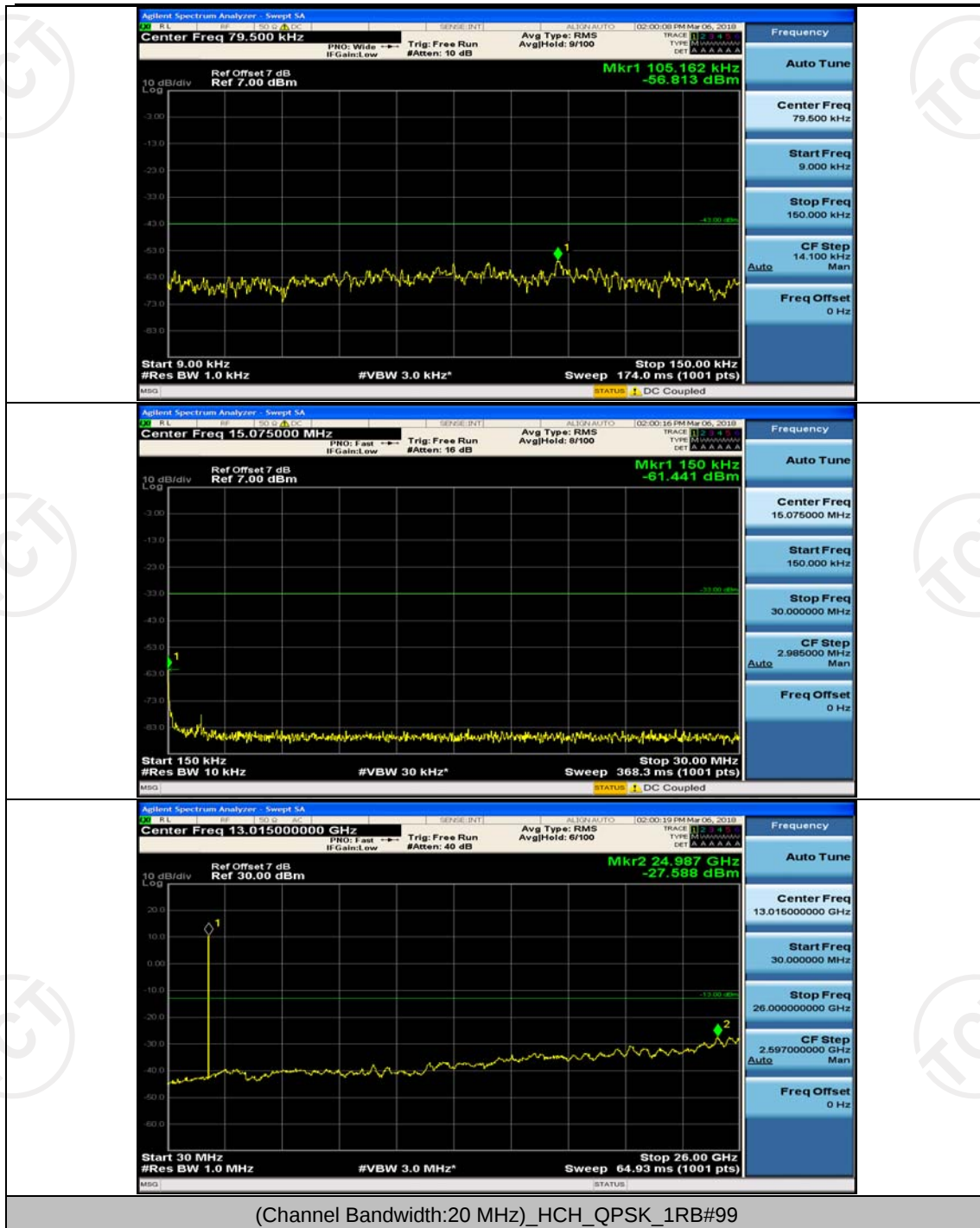


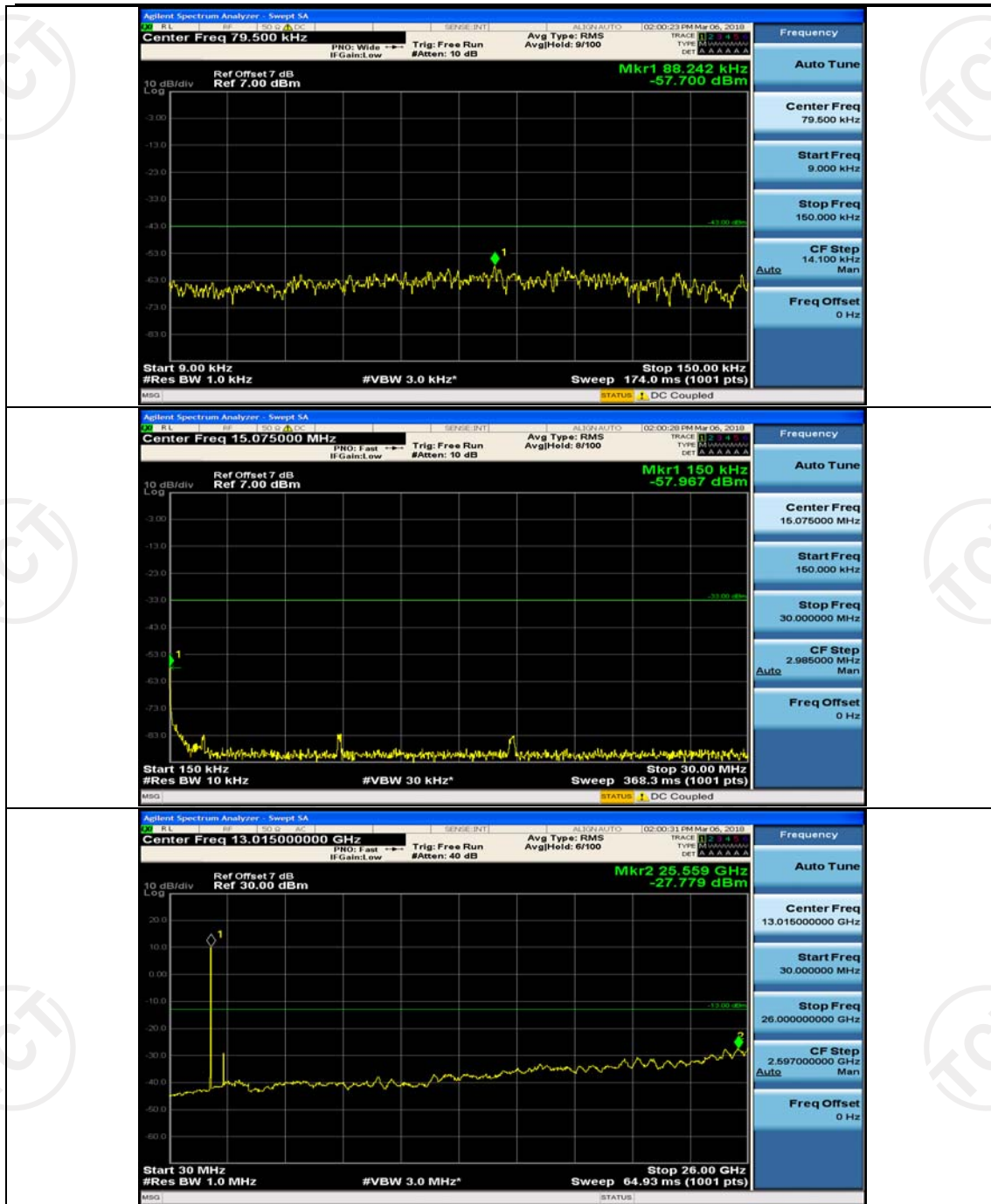


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

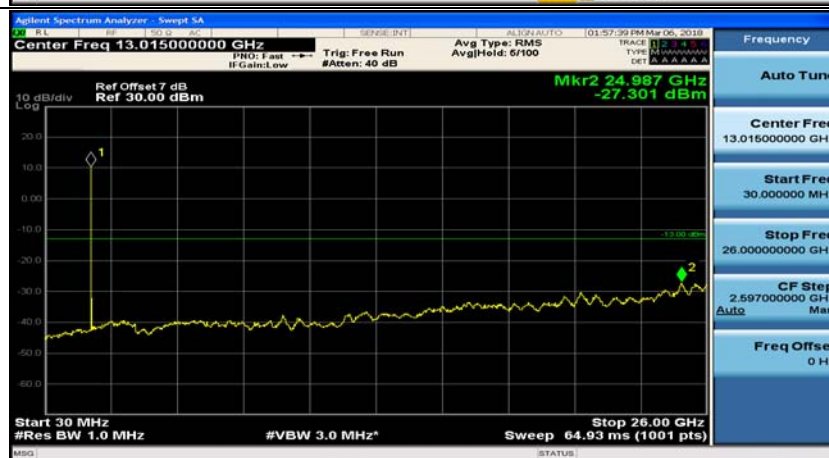
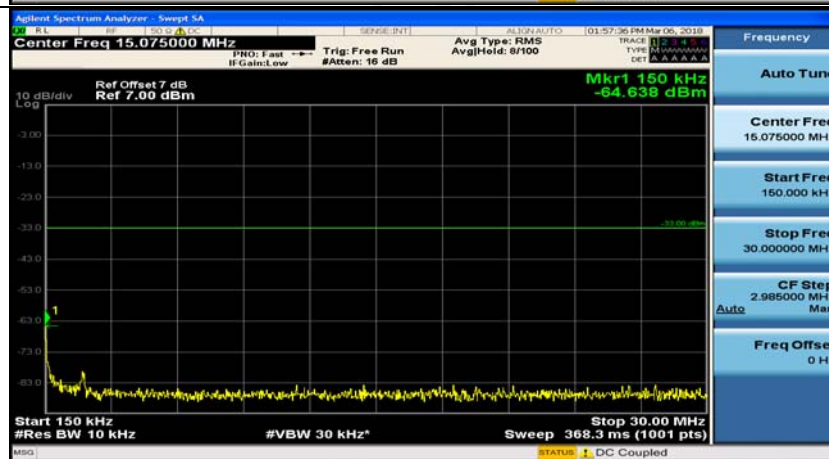
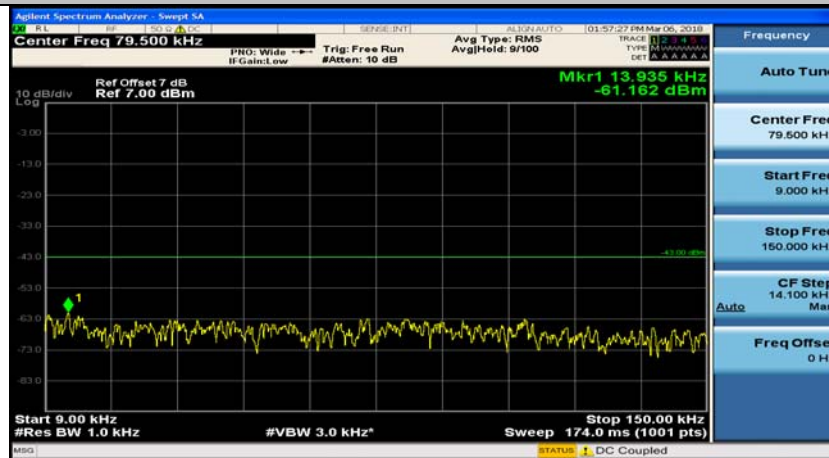


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

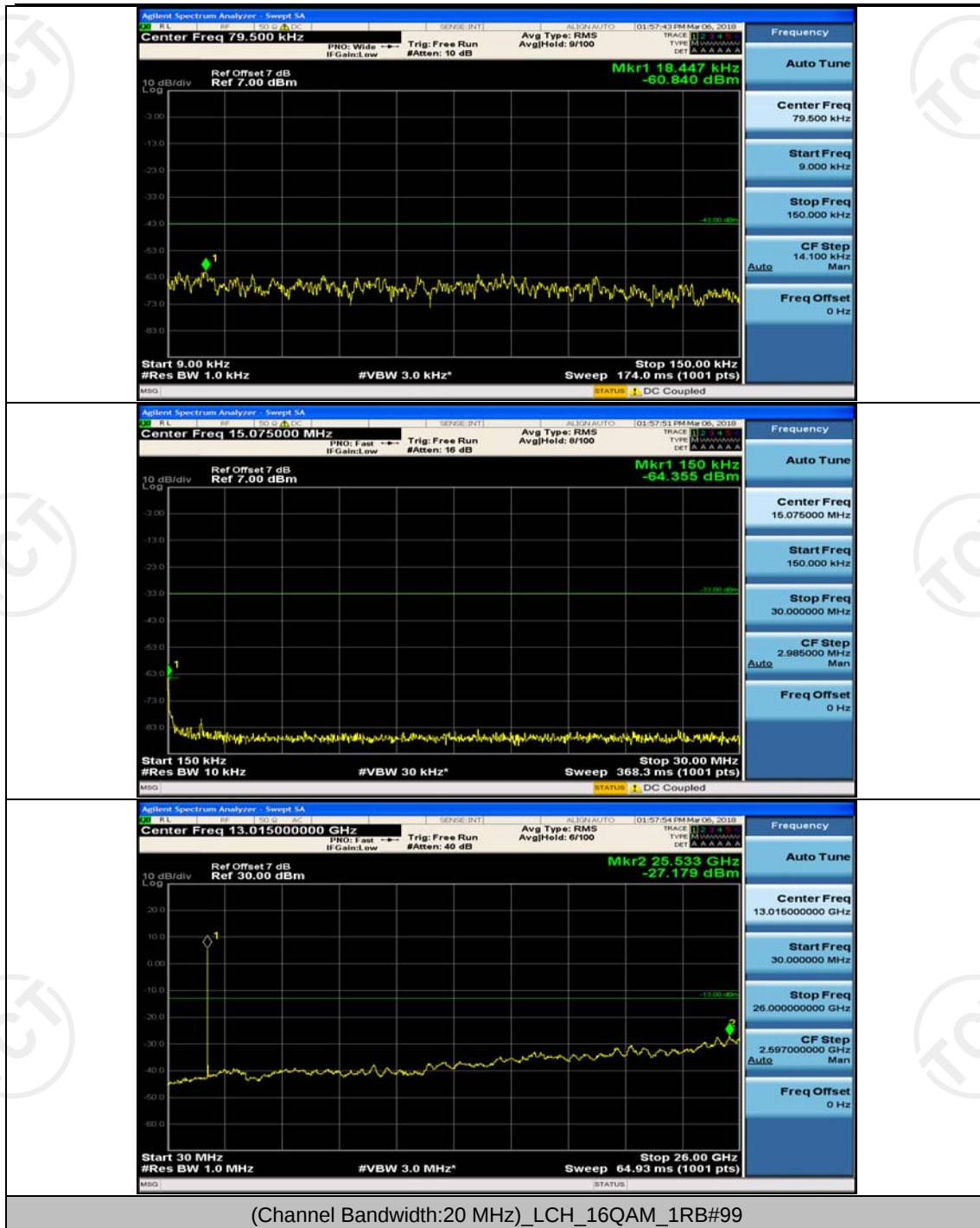


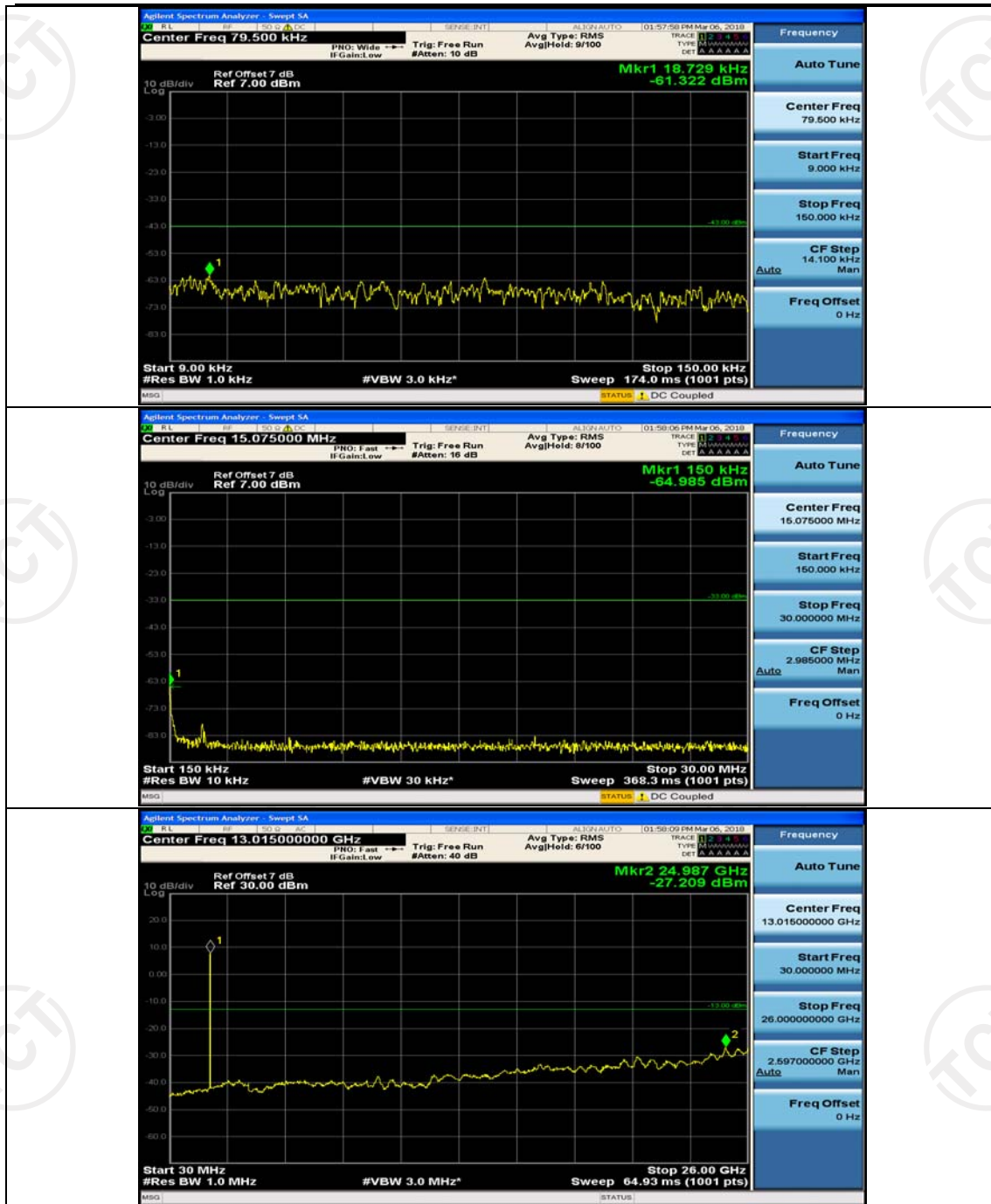


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

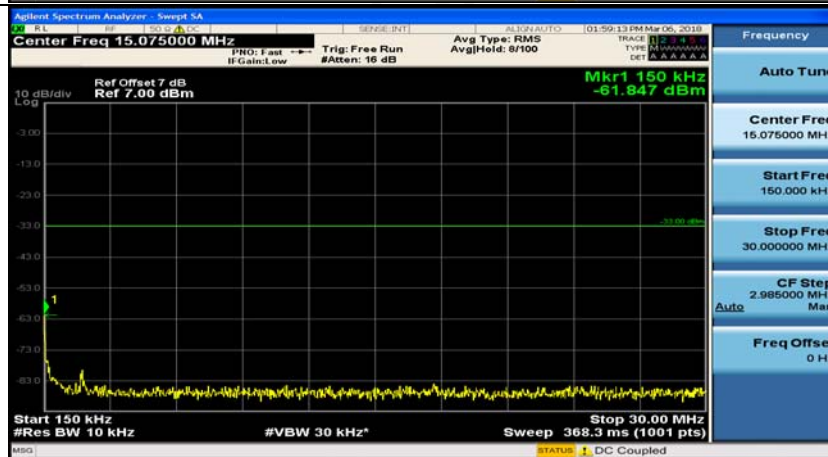
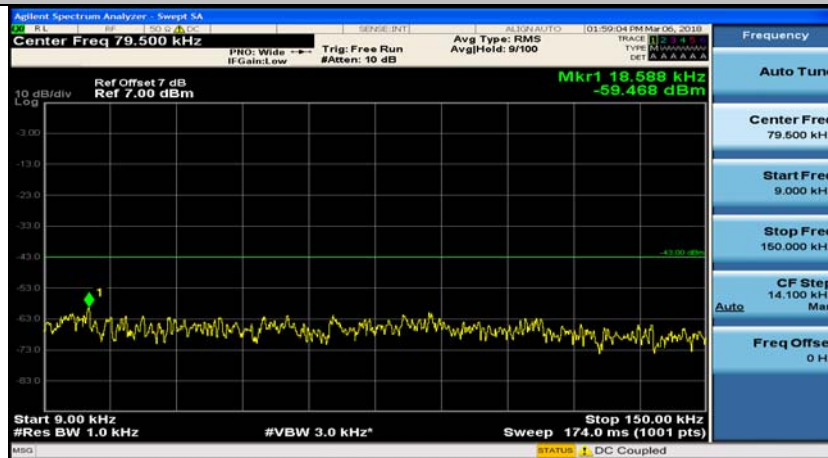


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

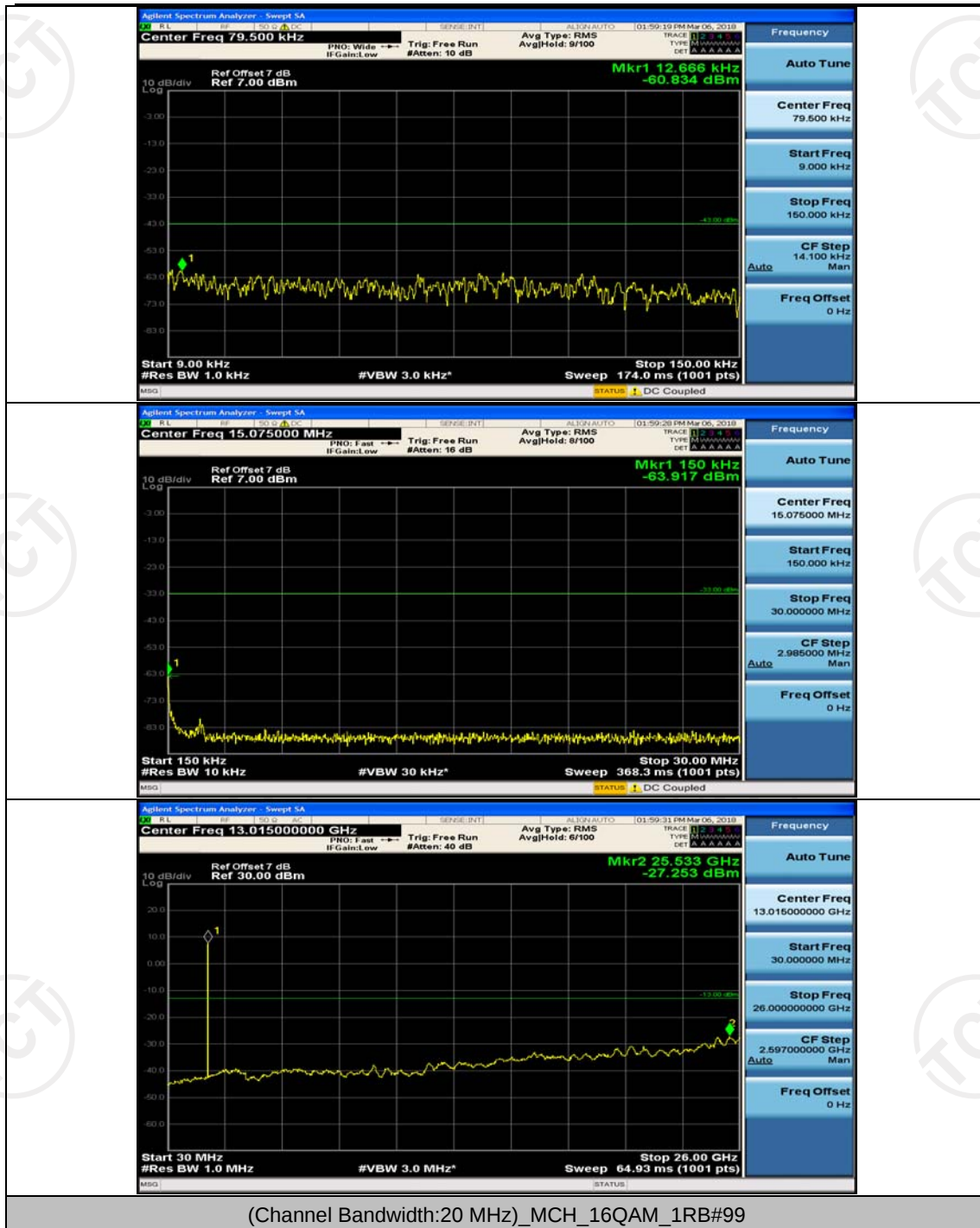


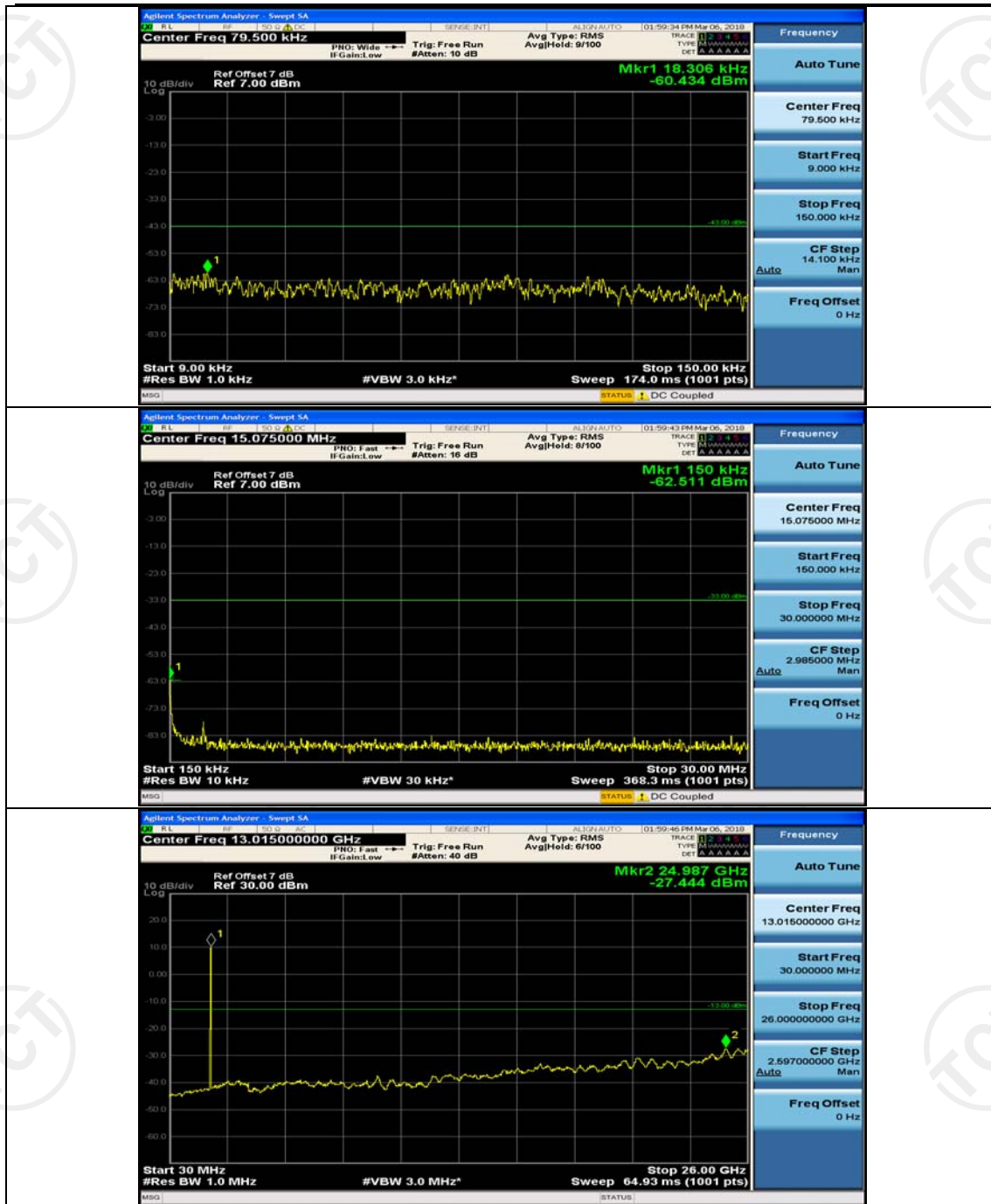


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

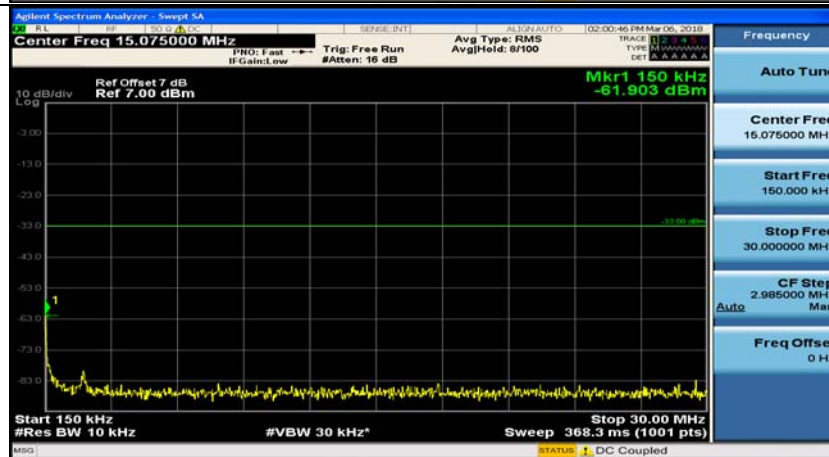
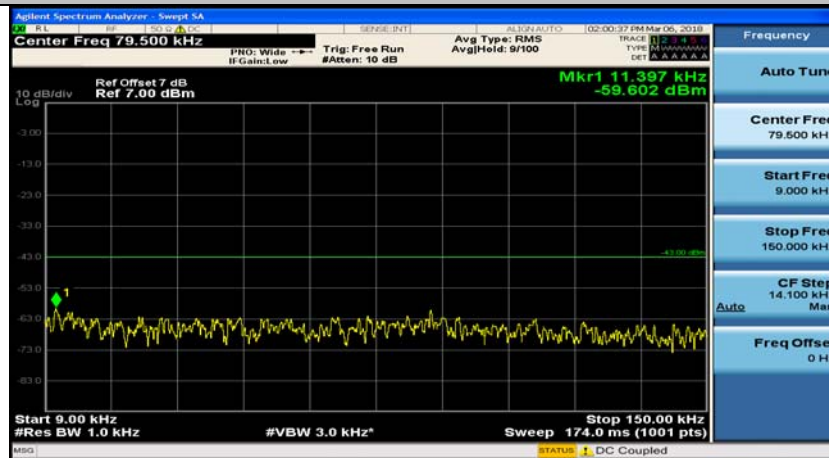


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

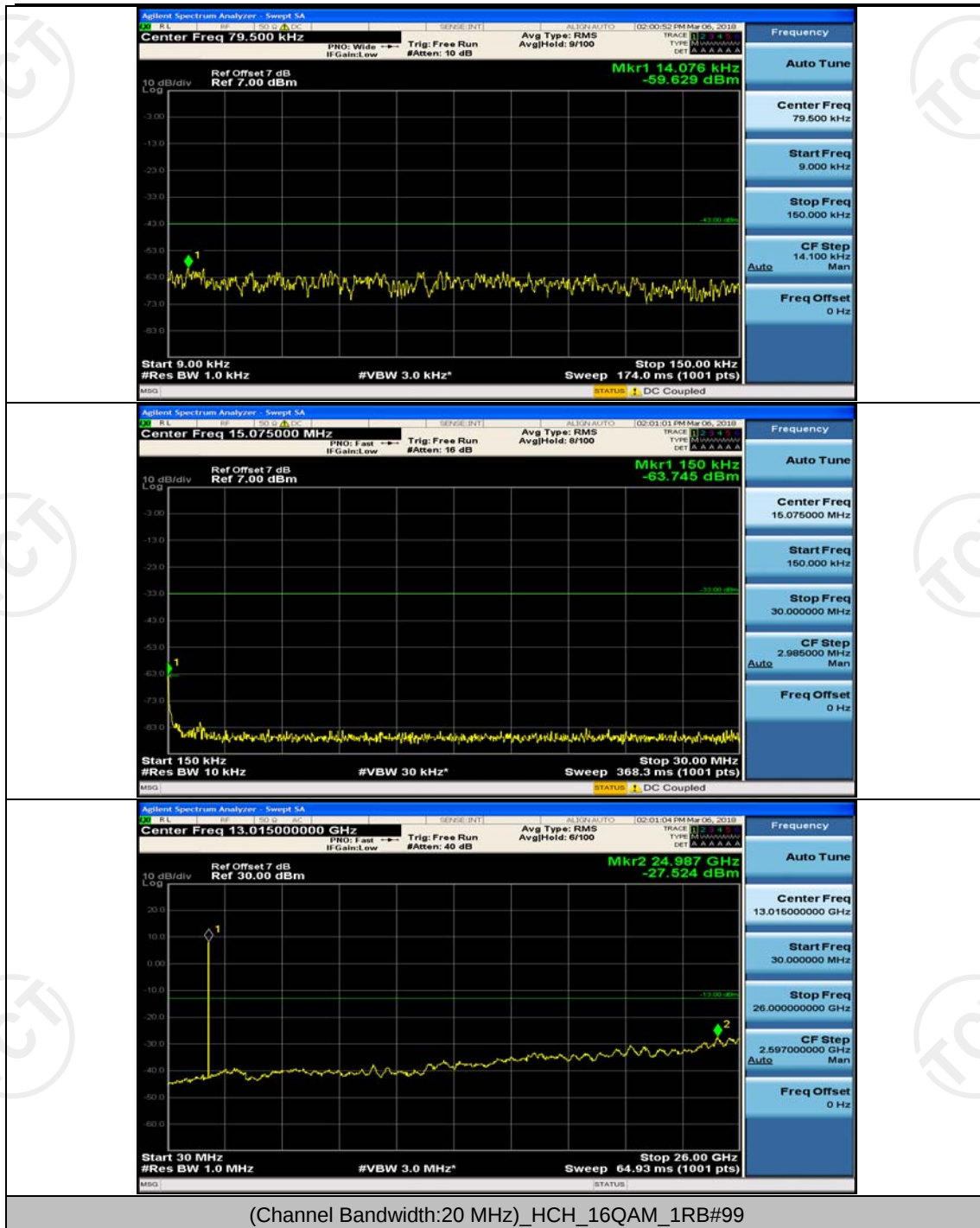


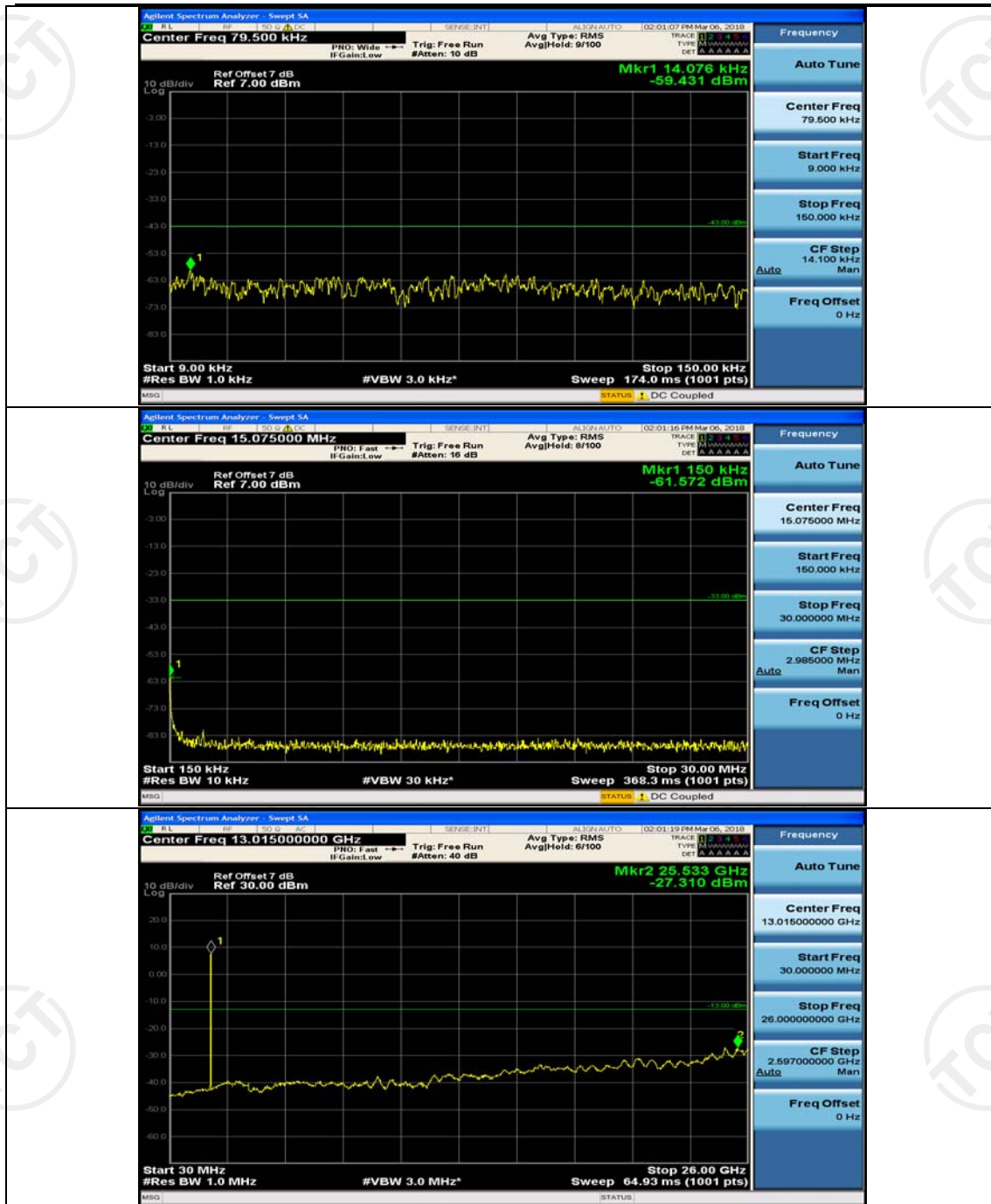


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	4.8	25	-0.000612	± 2.5	PASS
		5.0	25	-0.001747	± 2.5	PASS
		5.1	25	-0.001036	± 2.5	PASS
	MCH	4.8	25	-0.001692	± 2.5	PASS
		5.0	25	-0.002062	± 2.5	PASS
		5.1	25	0.000315	± 2.5	PASS
	HCH	4.8	25	0.000209	± 2.5	PASS
		5.0	25	0.000105	± 2.5	PASS
		5.1	25	0.000012	± 2.5	PASS
16QAM	LCH	4.8	25	-0.00272	± 2.5	PASS
		5.0	25	-0.000116	± 2.5	PASS
		5.1	25	-0.002063	± 2.5	PASS
	MCH	4.8	25	-0.002584	± 2.5	PASS
		5.0	25	-0.001225	± 2.5	PASS
		5.1	25	-0.002532	± 2.5	PASS
	HCH	4.8	25	-0.000278	± 2.5	PASS
		5.0	25	-0.000300	± 2.5	PASS
		5.1	25	-0.000491	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	5	-30	-0.001054	± 2.5	PASS
		5	-20	-0.001405	± 2.5	PASS
		5	-10	-0.000917	± 2.5	PASS
		5	0	-0.001784	± 2.5	PASS
		5	10	-0.001692	± 2.5	PASS
		5	20	-0.001445	± 2.5	PASS
		5	30	-0.000912	± 2.5	PASS
		5	40	-0.001793	± 2.5	PASS
		5	50	-0.001129	± 2.5	PASS
	MCH	5	-30	-0.001135	± 2.5	PASS
		5	-20	-0.001147	± 2.5	PASS
		5	-10	-0.001979	± 2.5	PASS
		5	0	-0.001497	± 2.5	PASS
		5	10	-0.002331	± 2.5	PASS
		5	20	-0.001674	± 2.5	PASS

		5	30	-0.001841	± 2.5	PASS
		5	40	-0.002473	± 2.5	PASS
		5	50	-0.002701	± 2.5	PASS
	HCH	5	-30	-0.000158	± 2.5	PASS
		5	-20	-0.000092	± 2.5	PASS
		5	-10	-0.000167	± 2.5	PASS
		5	0	0.000181	± 2.5	PASS
		5	10	0.000436	± 2.5	PASS
		5	20	0.000120	± 2.5	PASS
		5	30	-0.000877	± 2.5	PASS
		5	40	0.000172	± 2.5	PASS
		5	50	-0.000509	± 2.5	PASS
		5	-30	-0.003092	± 2.5	PASS
		5	-20	-0.002000	± 2.5	PASS
		5	-10	-0.001854	± 2.5	PASS
16QAM	LCH	5	0	-0.002355	± 2.5	PASS
		5	10	-0.002349	± 2.5	PASS
		5	20	-0.000935	± 2.5	PASS
		5	30	-0.001345	± 2.5	PASS
		5	40	-0.000247	± 2.5	PASS
		5	50	-0.000271	± 2.5	PASS
	MCH	5	-30	-0.000935	± 2.5	PASS
		5	-20	-0.001655	± 2.5	PASS
		5	-10	-0.002543	± 2.5	PASS
		5	0	-0.001981	± 2.5	PASS
		5	10	-0.002562	± 2.5	PASS
		5	20	-0.002047	± 2.5	PASS
		5	30	-0.002351	± 2.5	PASS
		5	40	-0.001606	± 2.5	PASS
		5	50	-0.000974	± 2.5	PASS
	HCH	5	-30	-0.000321	± 2.5	PASS
		5	-20	-0.000299	± 2.5	PASS
		5	-10	-0.000626	± 2.5	PASS
		5	0	-0.000337	± 2.5	PASS
		5	10	-0.000541	± 2.5	PASS
		5	20	-0.000390	± 2.5	PASS
		5	30	-0.000532	± 2.5	PASS
		5	40	-0.000959	± 2.5	PASS
		5	50	0.000030	± 2.5	PASS

Note: All bandwidth and modulation are tested, only the worst result is reported.

Appendix G :Field Strength of Spurious Radiation Measurement

Test Result

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	QPSK		Temperature :	24~26°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3701.4	Vertical	-30.36	-13.00	PASS
5552.1	V	-36.75		
-	V	-		
3701.4	Horizontal	-31.94		
5552.1	H	-38.25		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760	Vertical	-32.35	-13.00	PASS
5640	V	-38.02		
-	V	-		
3760	Horizontal	-31.10		
5640	H	-35.45		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.6	Vertical	-31.57	-13.00	PASS
5727.9	V	-36.61		
-	V	-		
3818.6	Horizontal	-33.34		
5727.9	H	-37.75		
-	-	-		

-	H	-		
Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3701.4	Vertical	-31.64	-13.00	PASS
5552.1	V	-34.81		
-	V	-		
3701.4	Horizontal	-34.51		
5552.1	H	-36.74		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760	Vertical	-32.01	-13.00	PASS
5640	V	-37.23		
-	V	-		
3760	Horizontal	-34.47		
5640	H	-38.39		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.6	Vertical	-31.38	-13.00	PASS
5727.9	V	-38.65		
-	V	-		
3818.6	Horizontal	-33.14		
5727.9	H	-39.56		
-	H	-		

Note: All bandwidth and modulation are tested, only the worst result is reported.