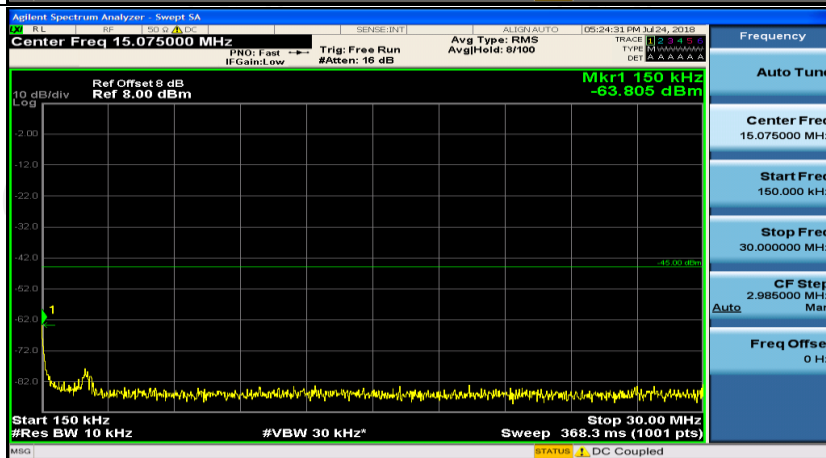
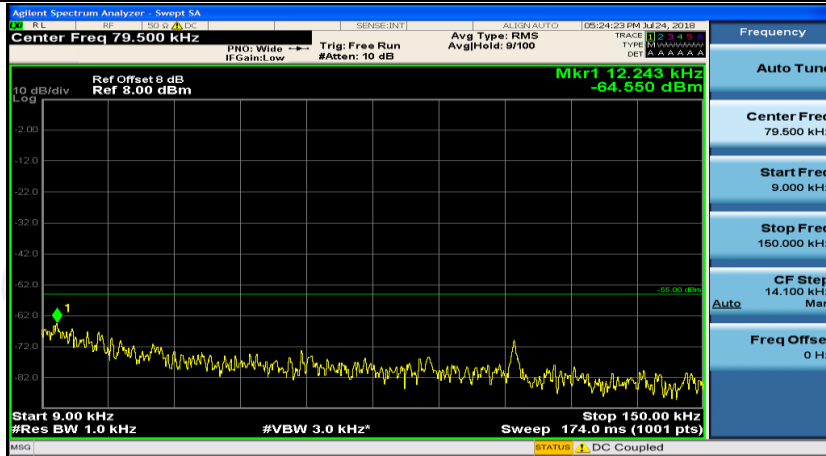
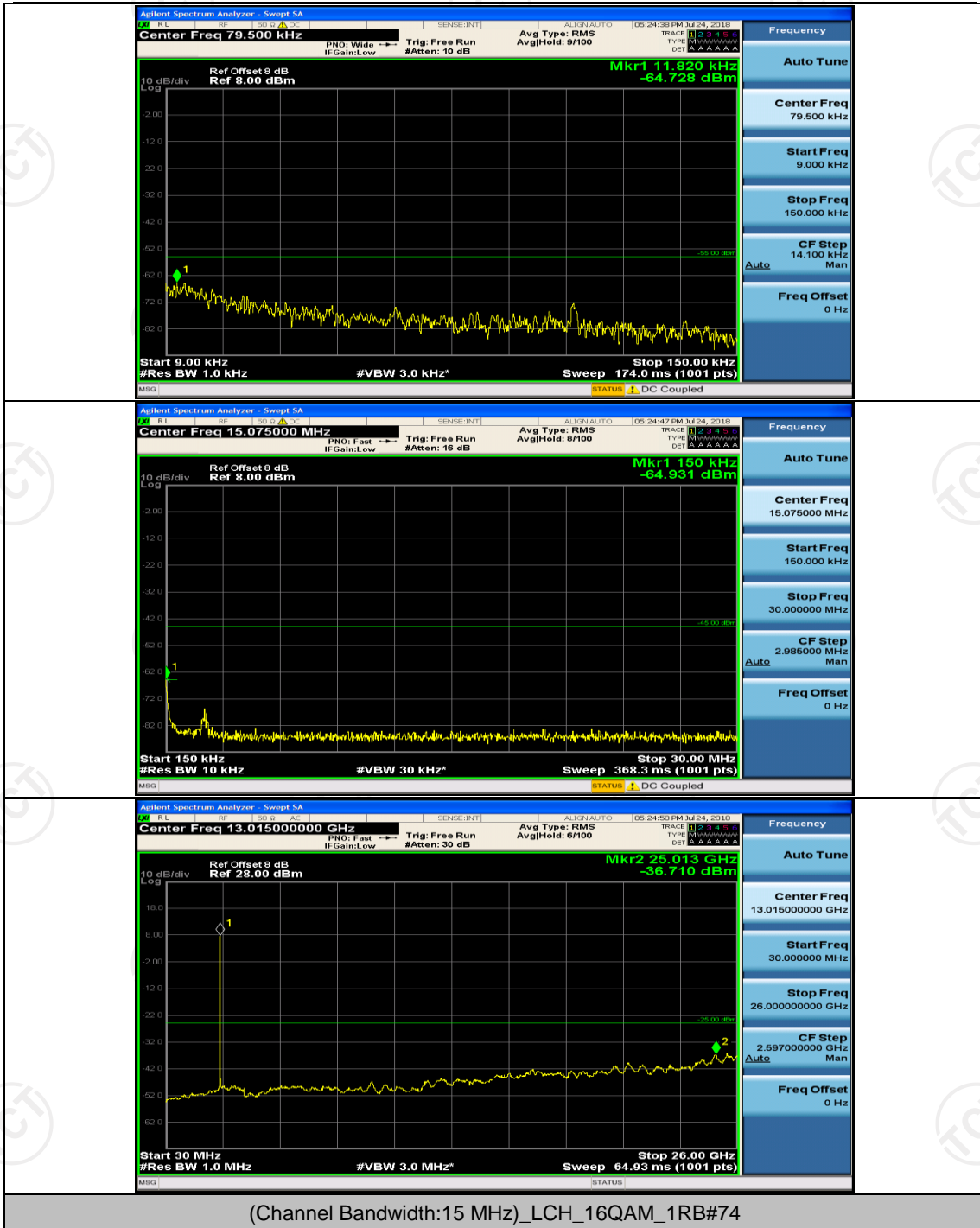
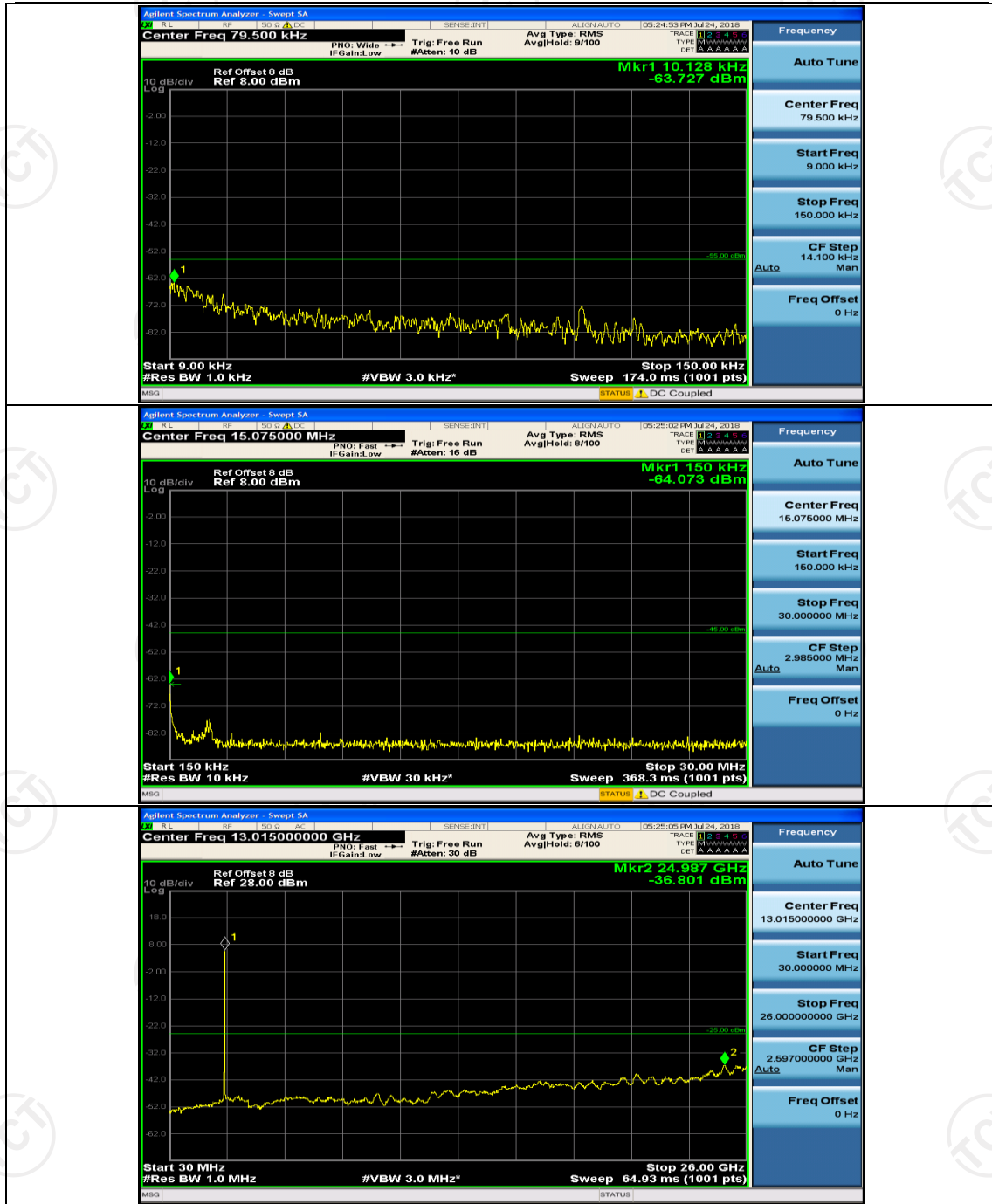


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

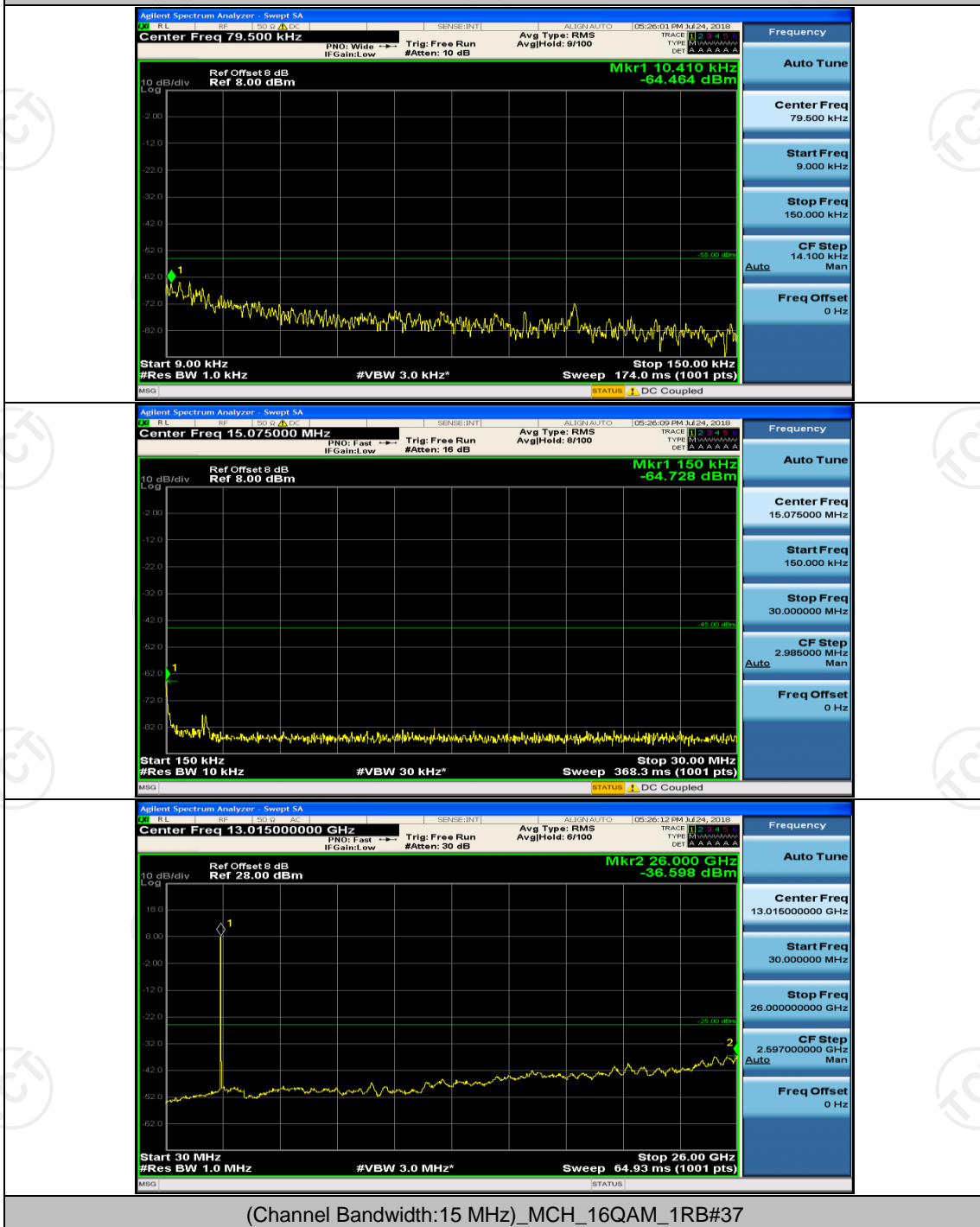


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

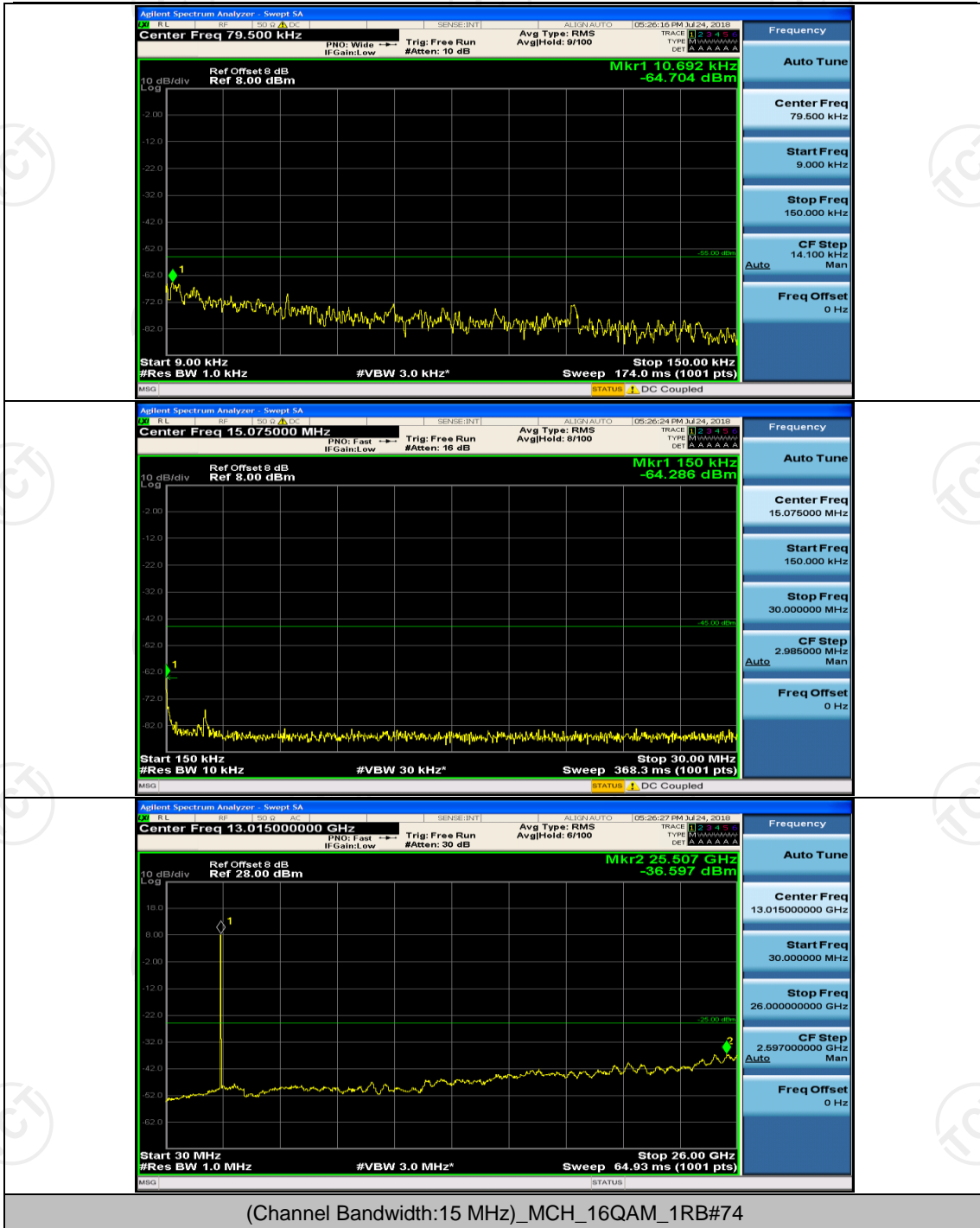


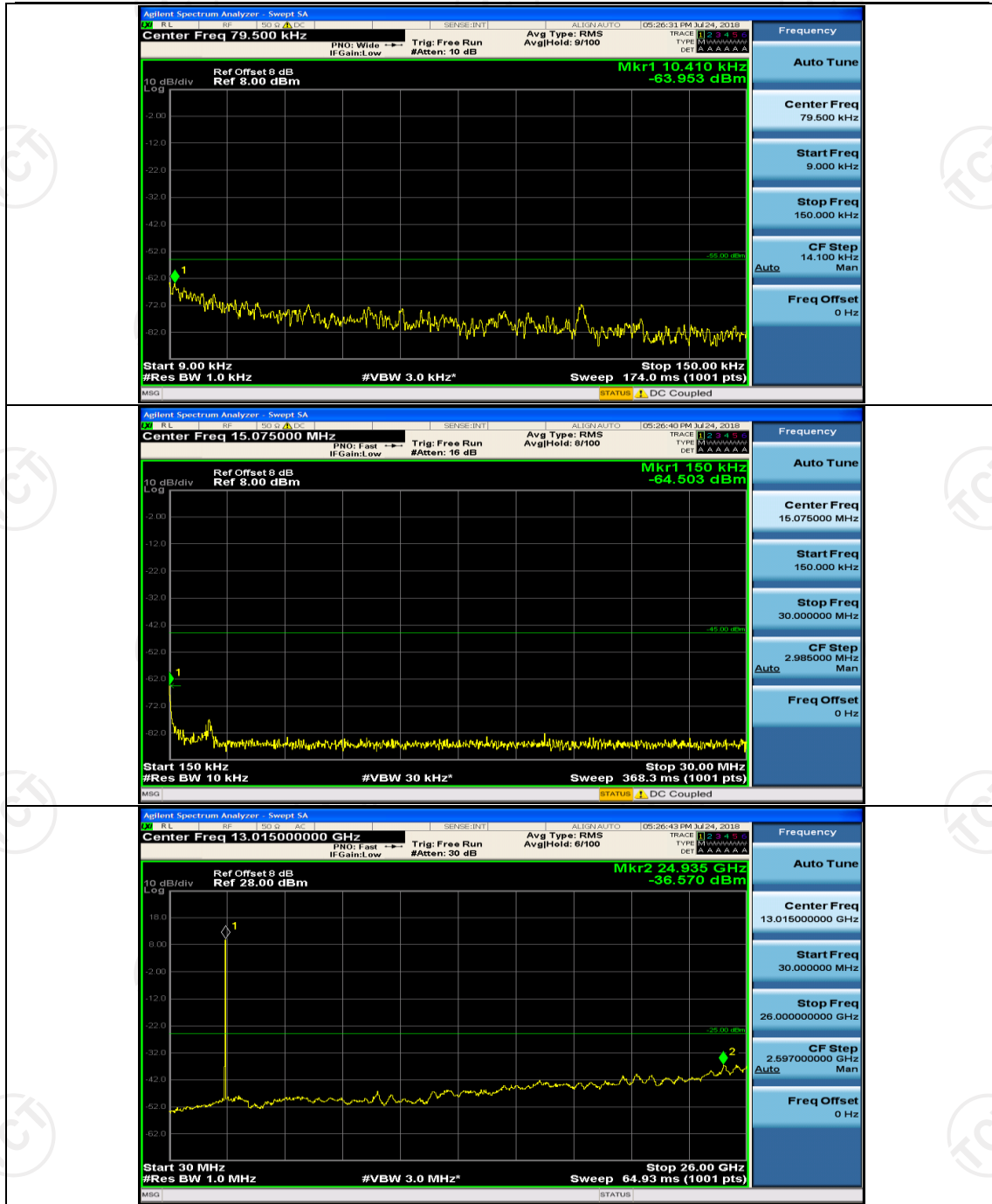


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

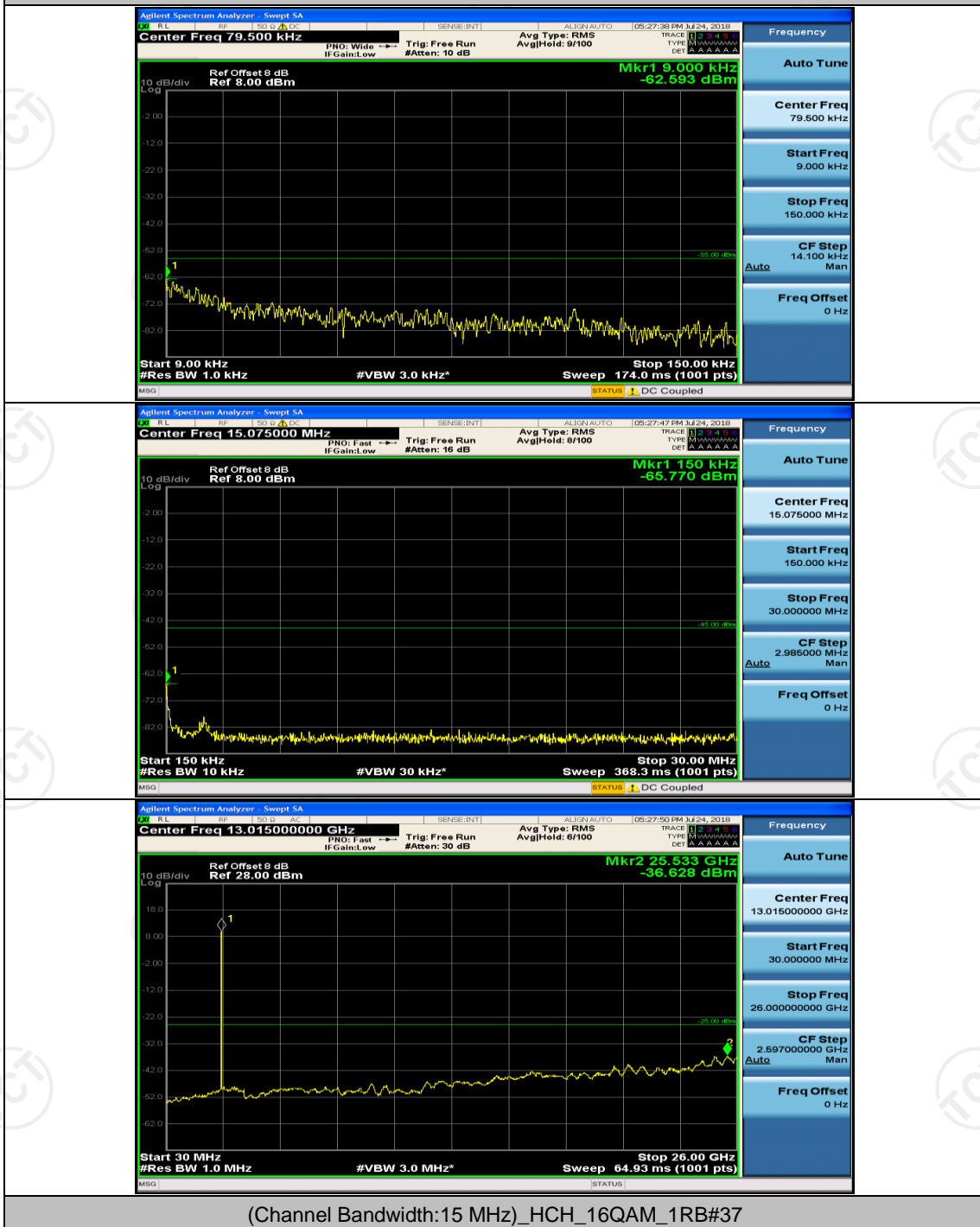


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

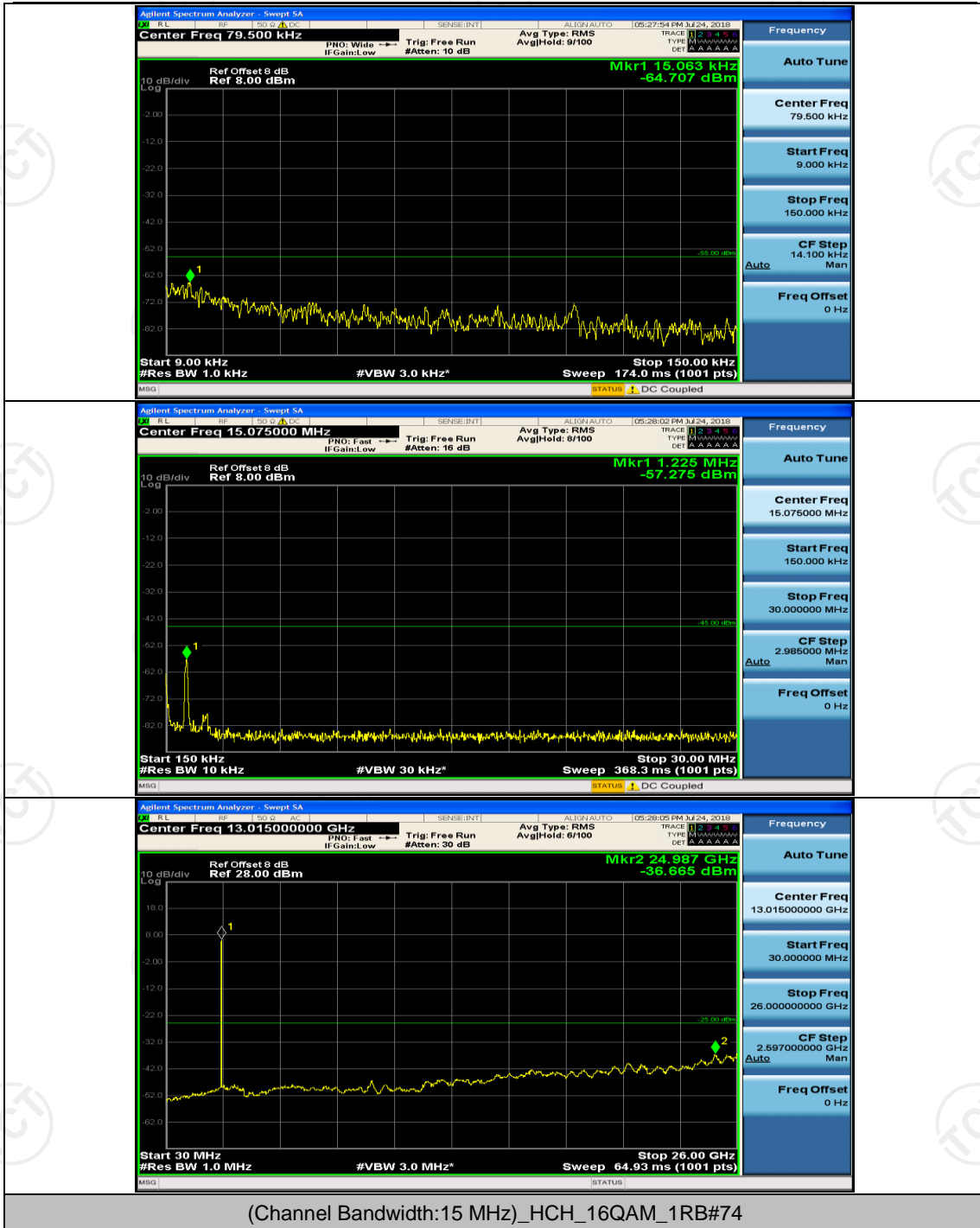


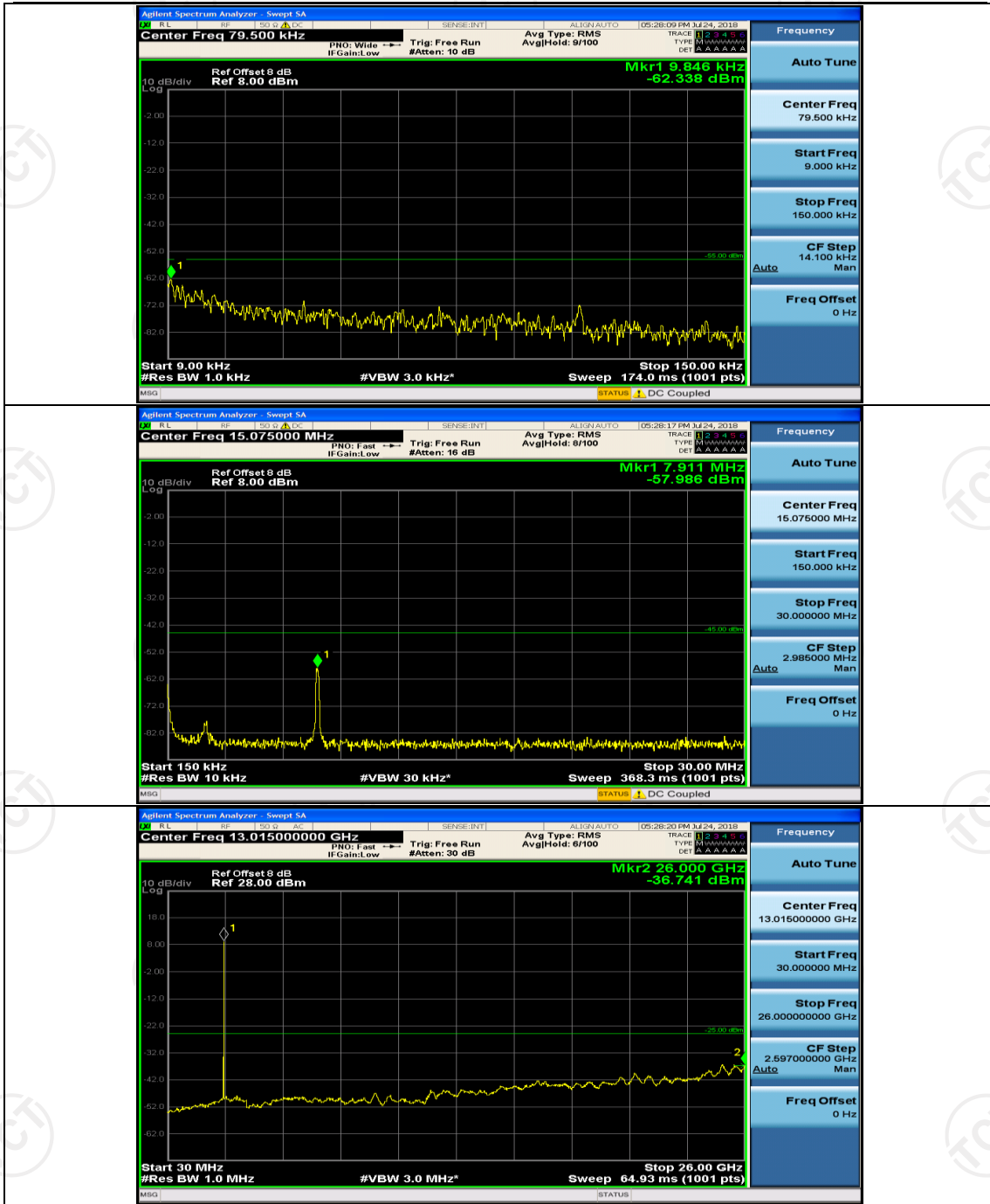


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

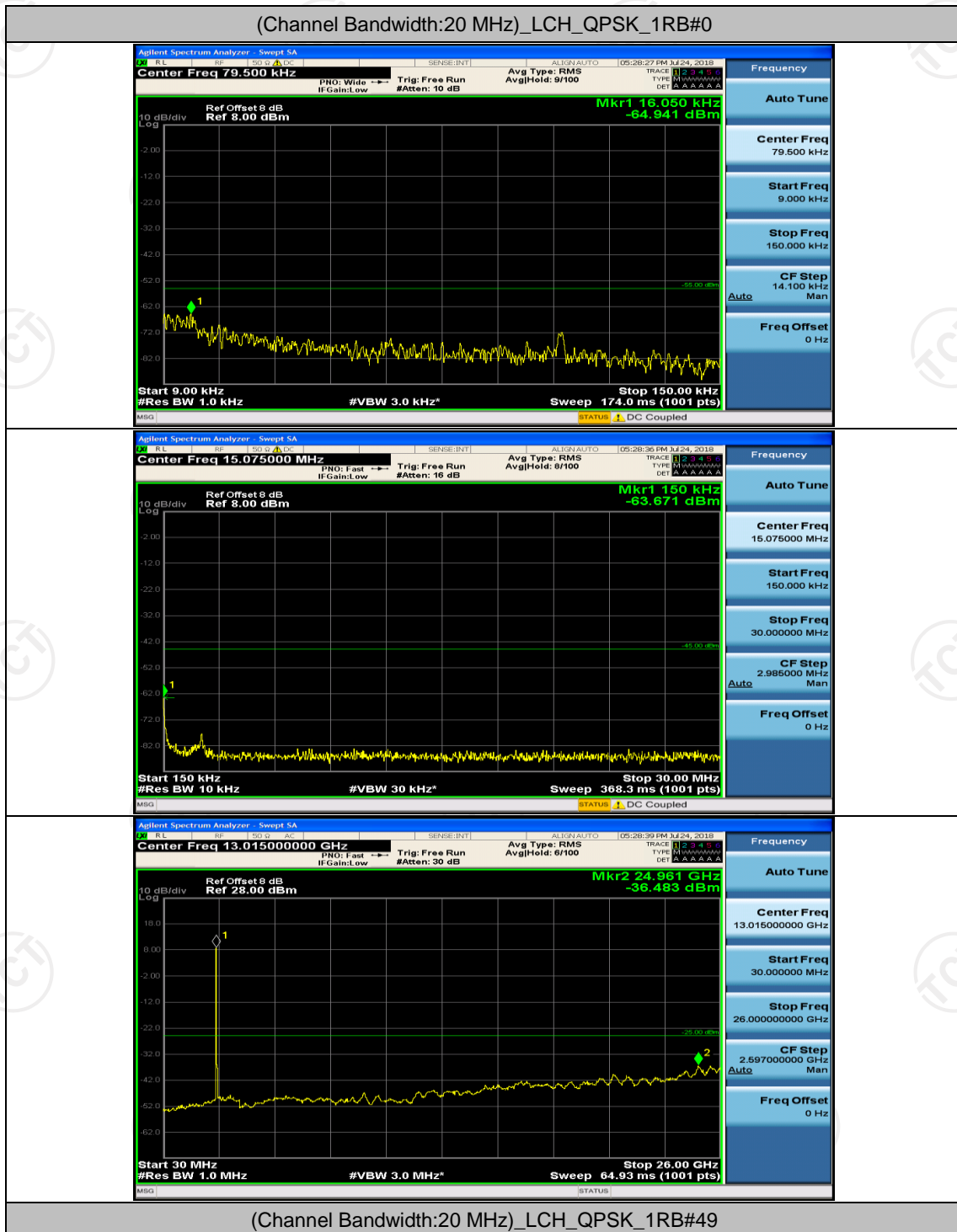


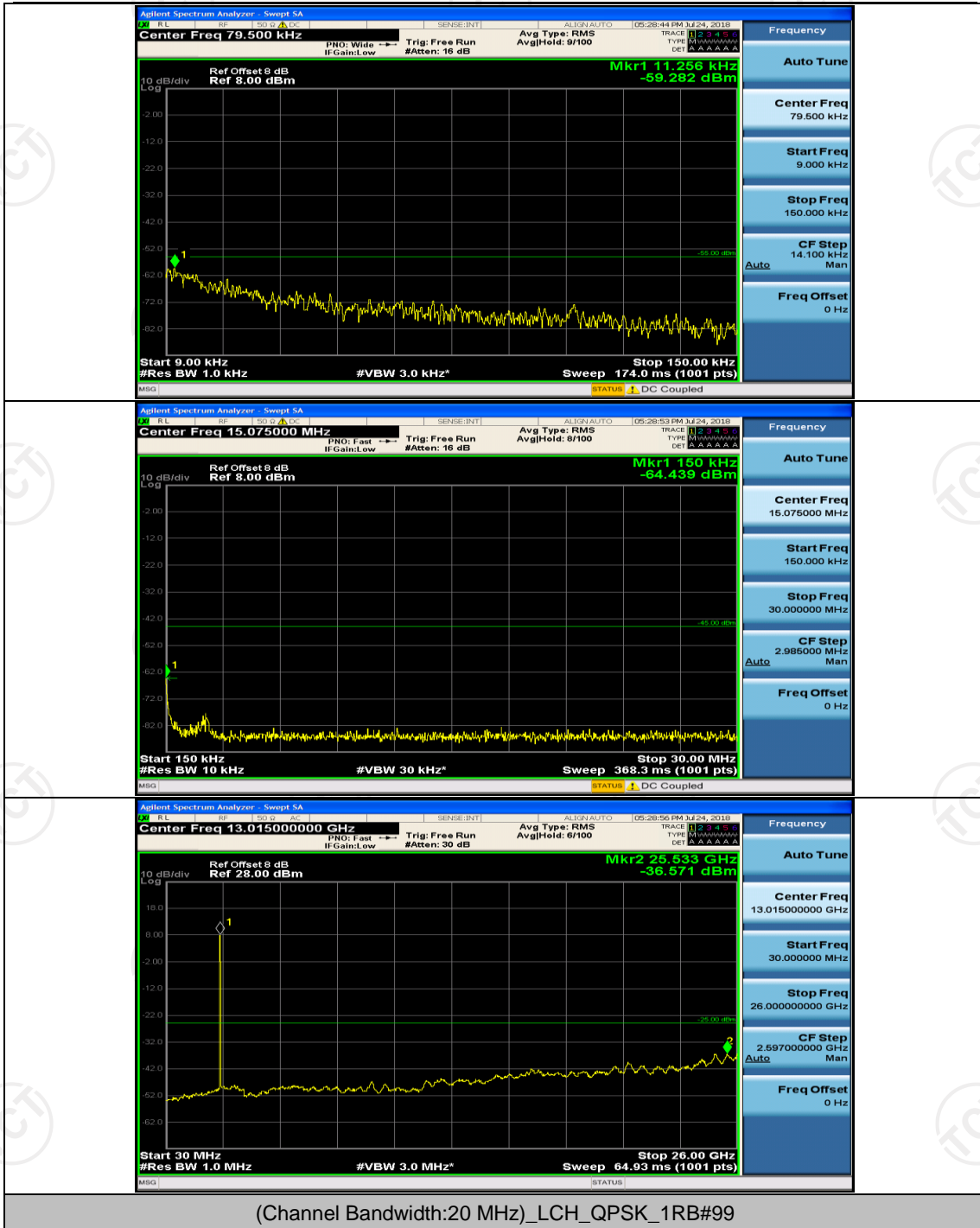
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

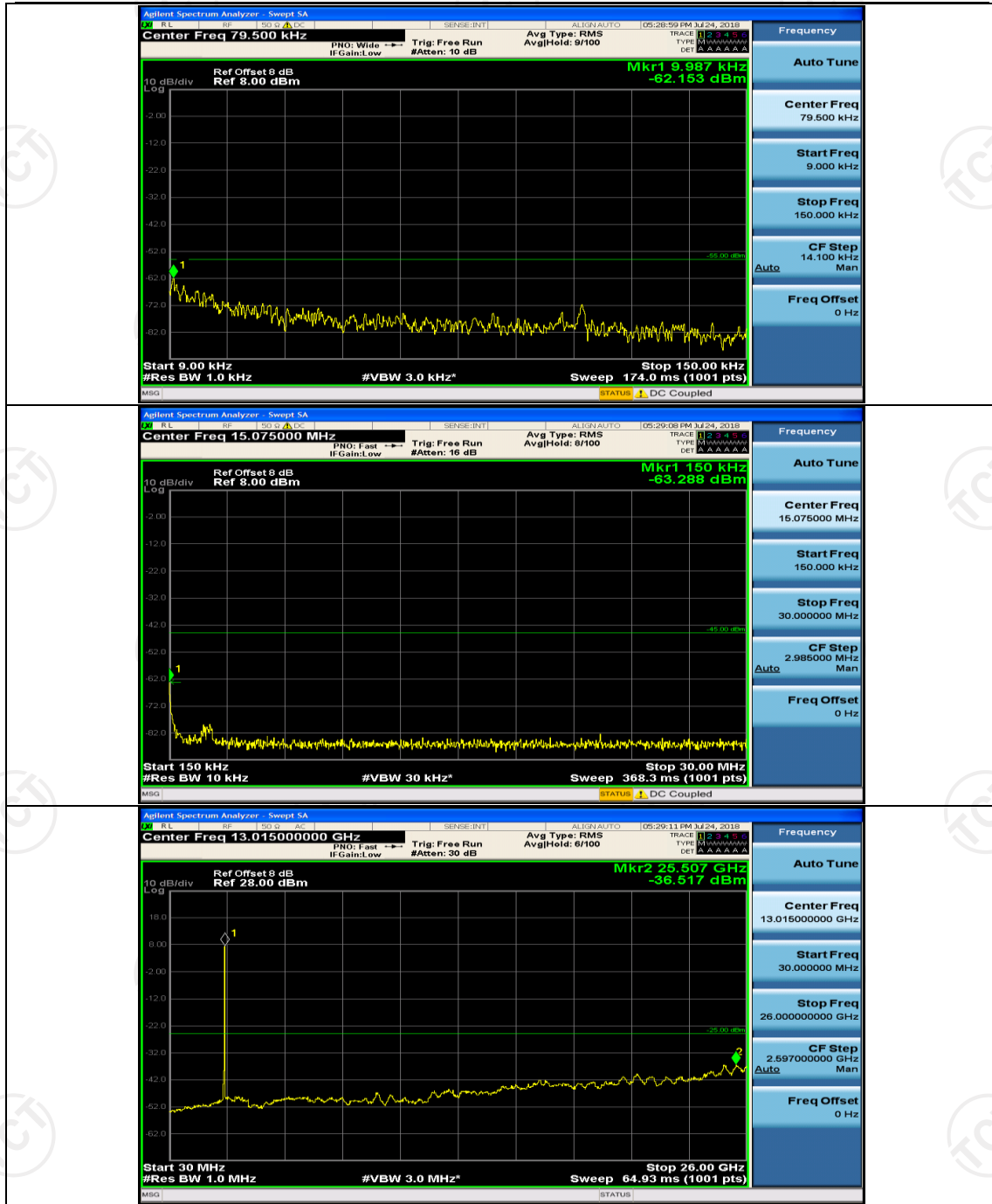




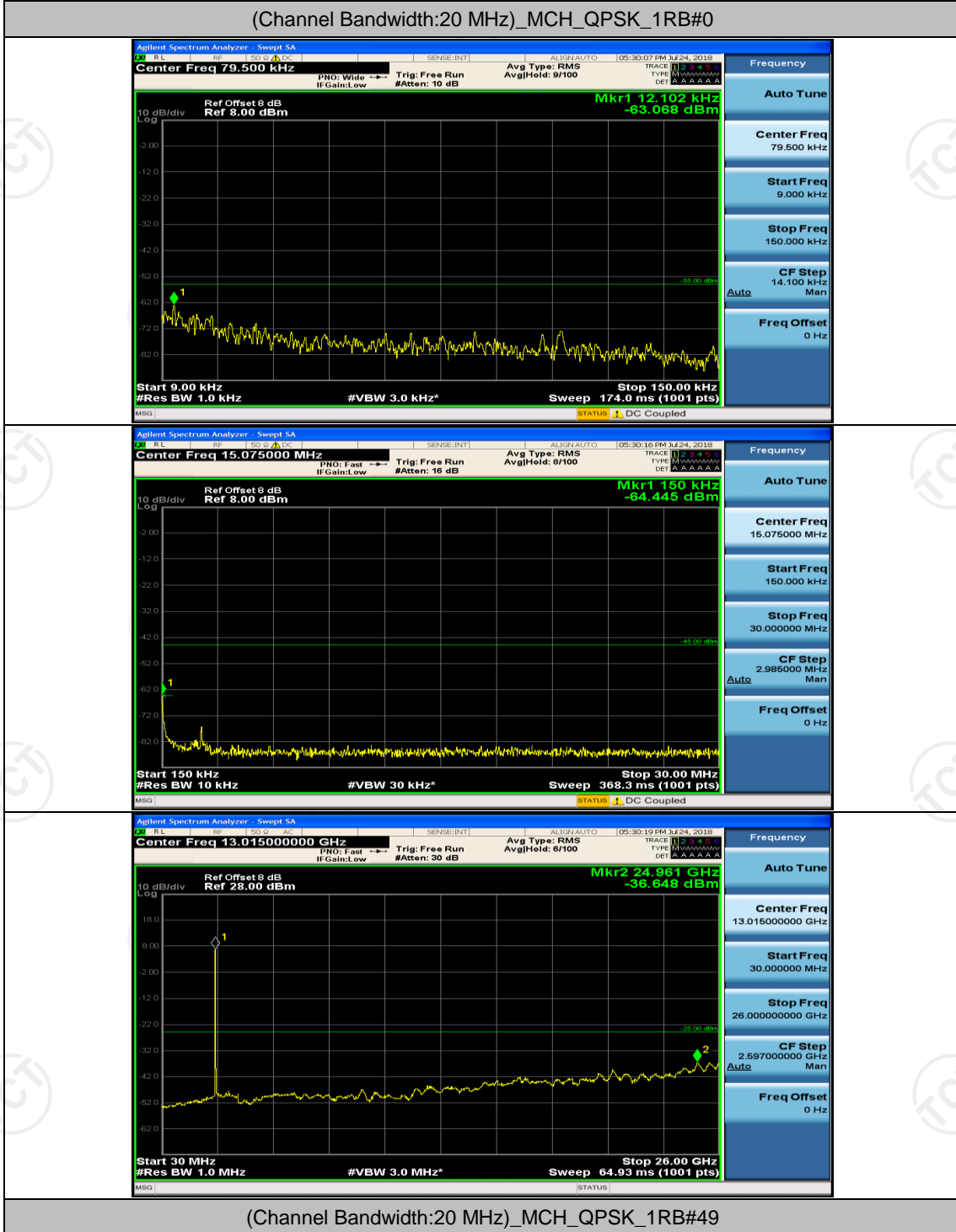
Channel Bandwidth: 20 MHz



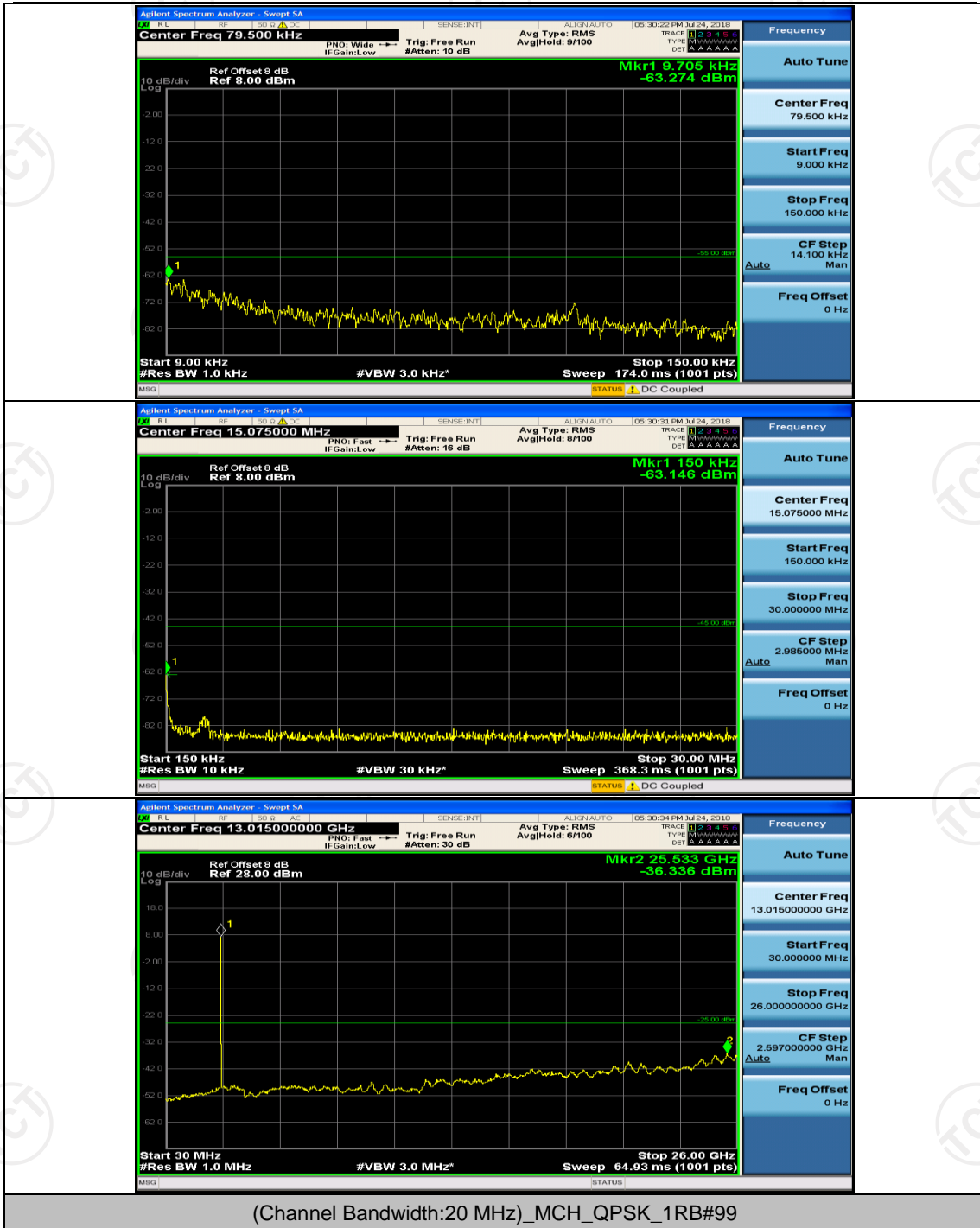


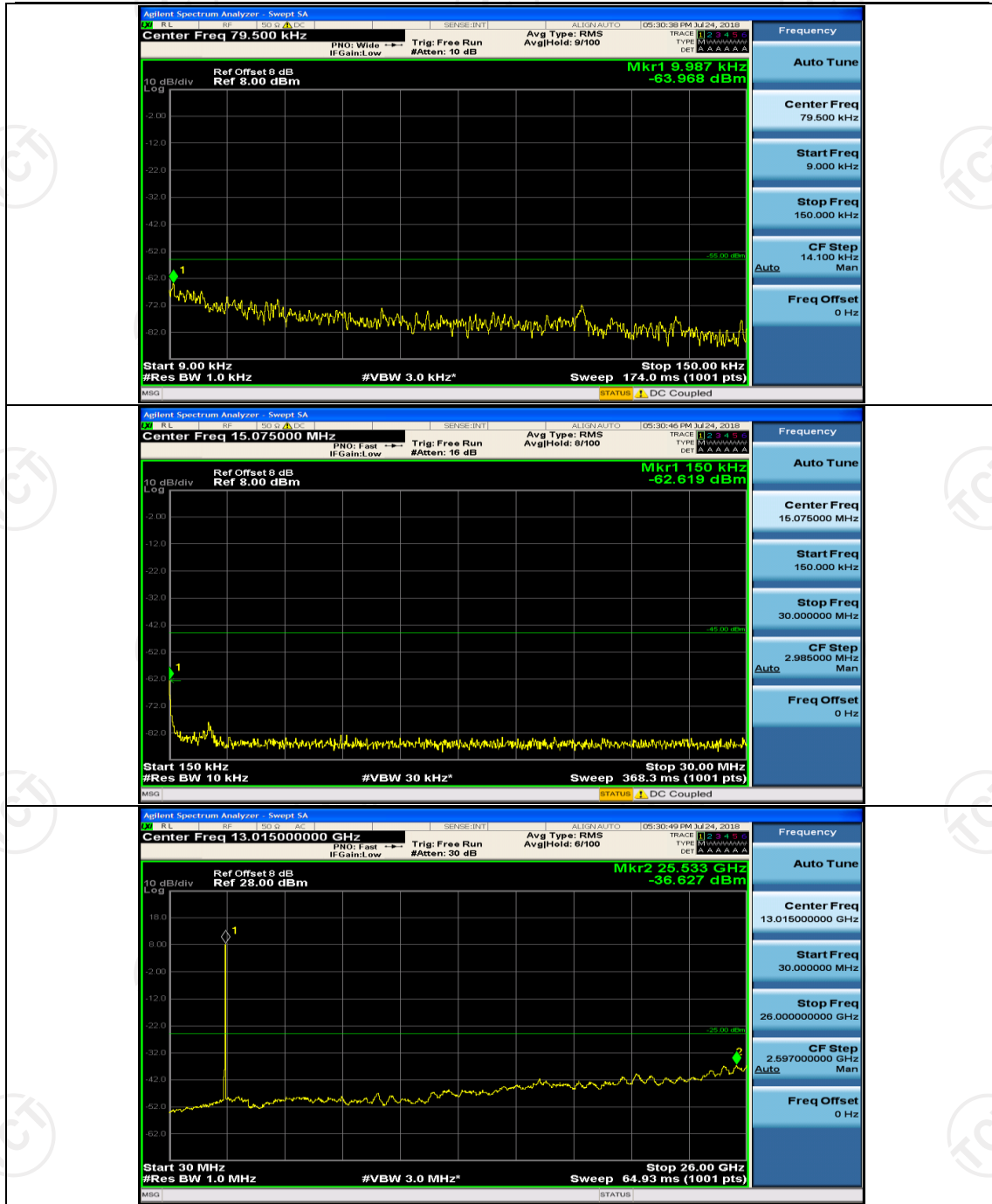


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

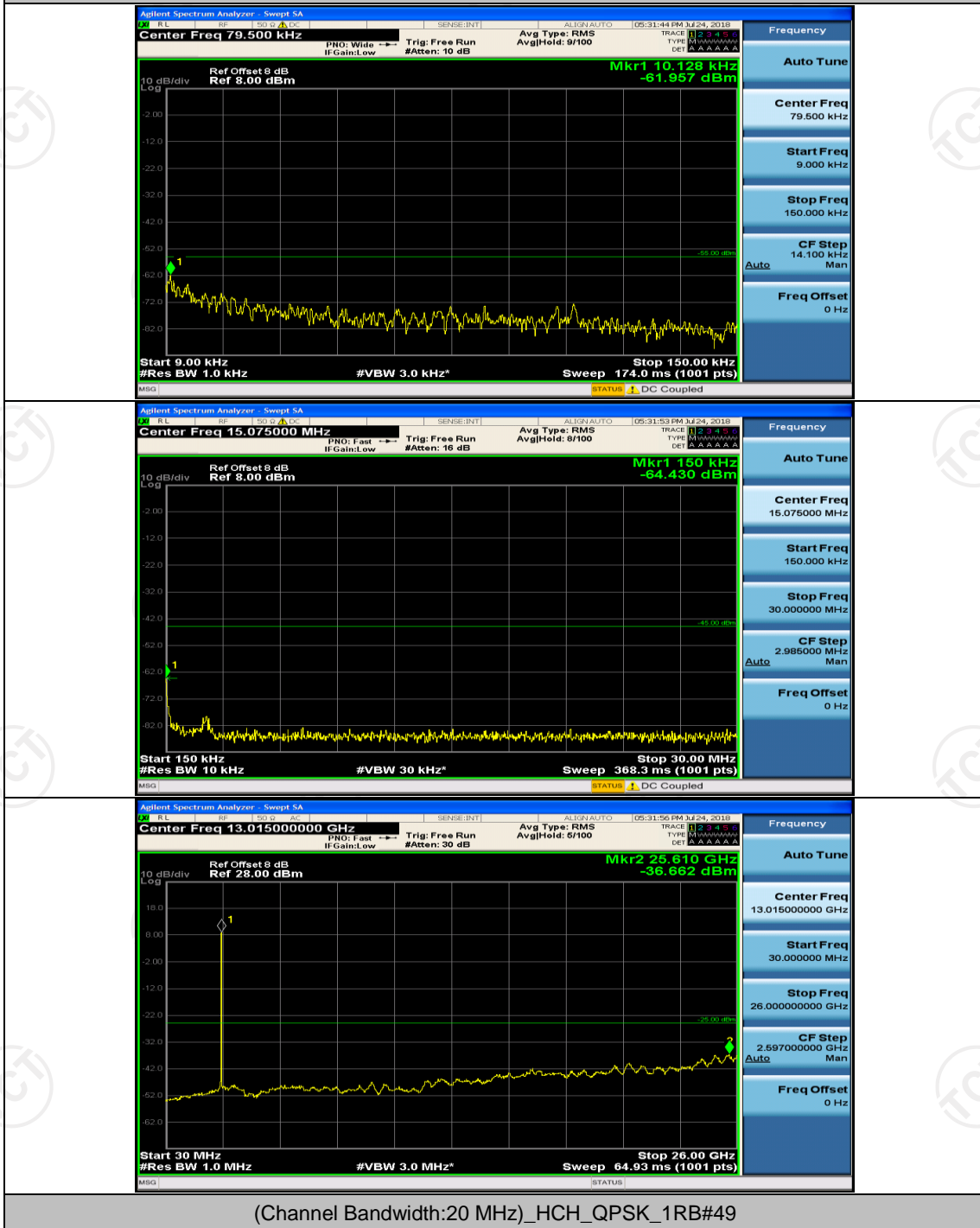


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

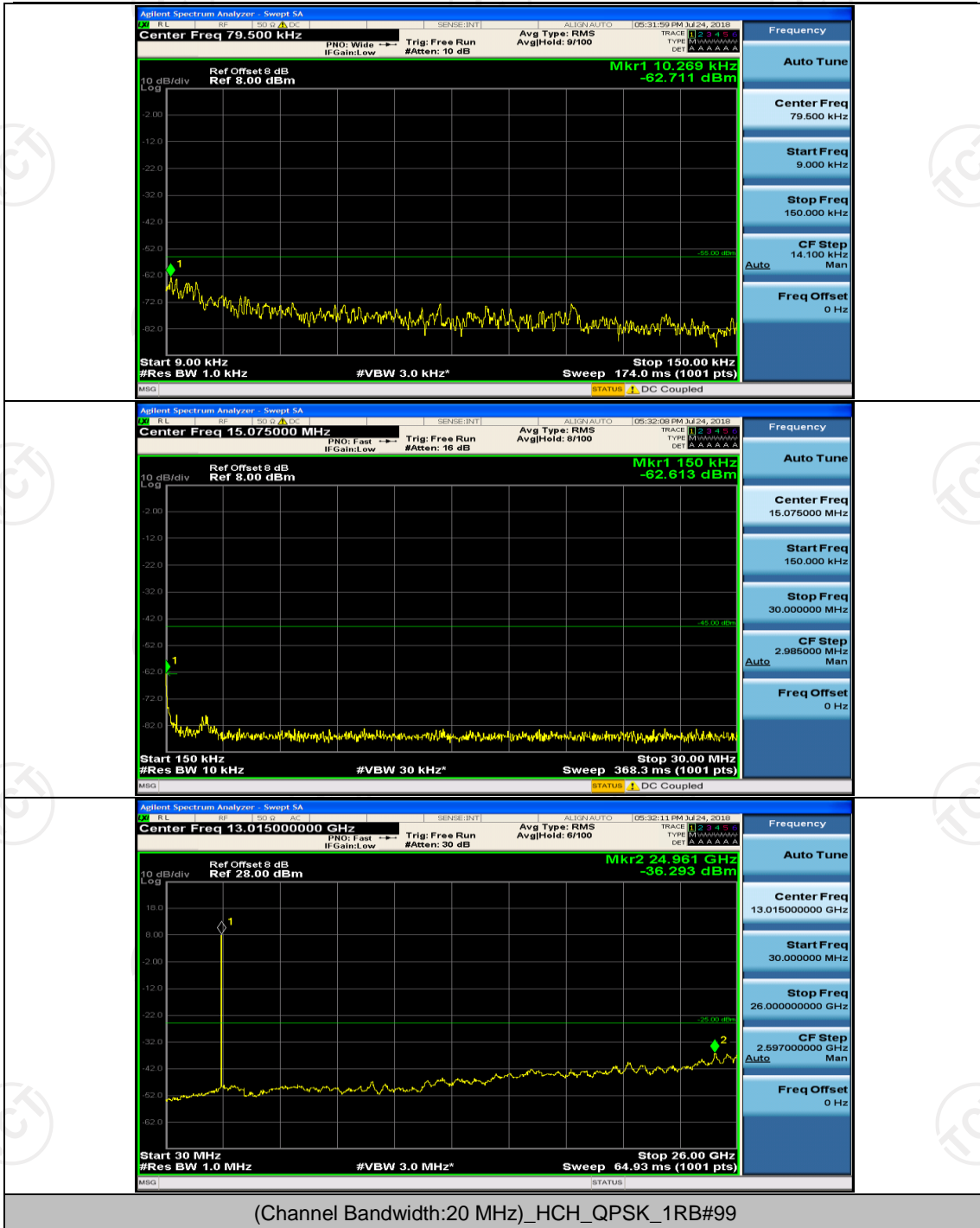


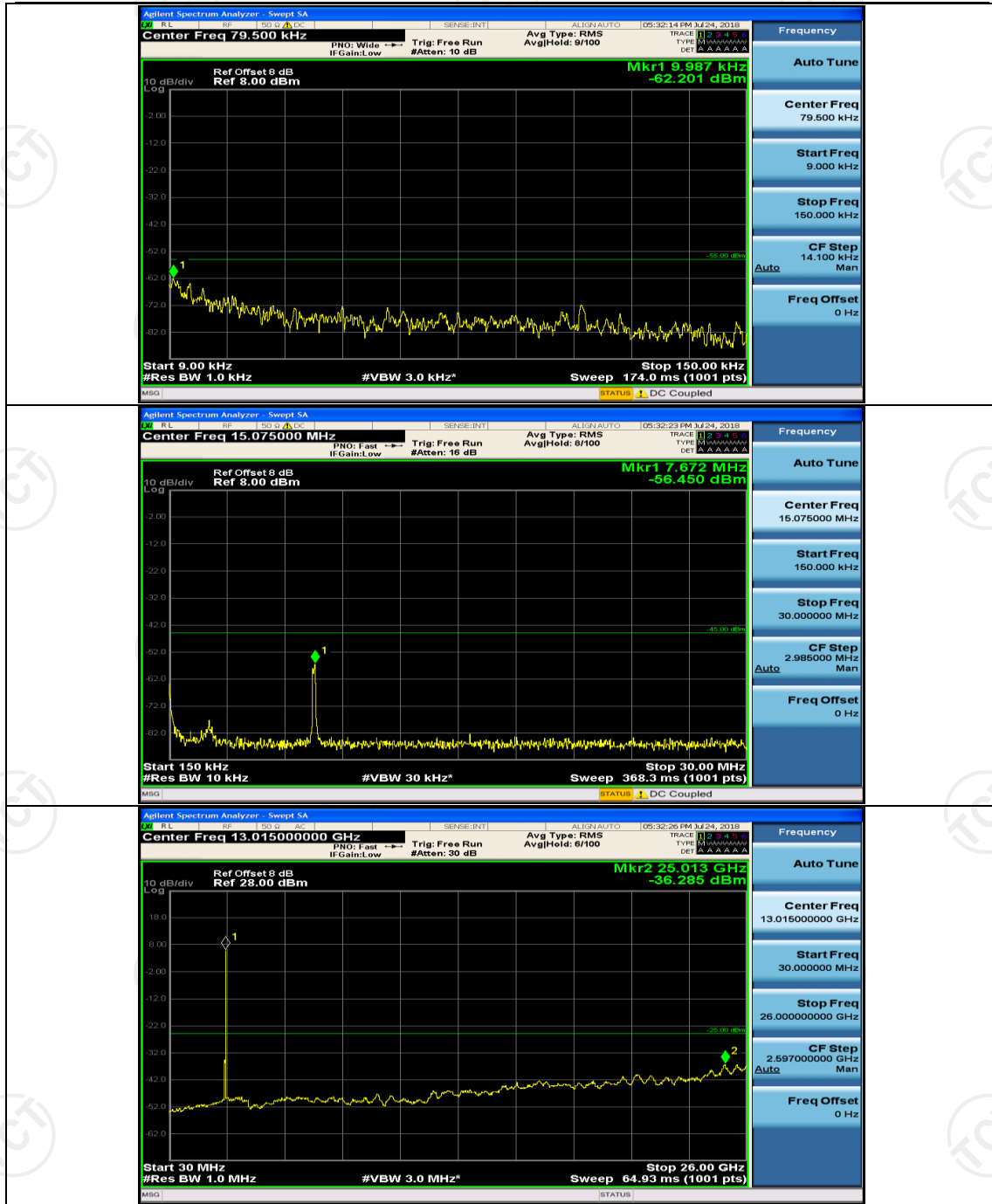


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

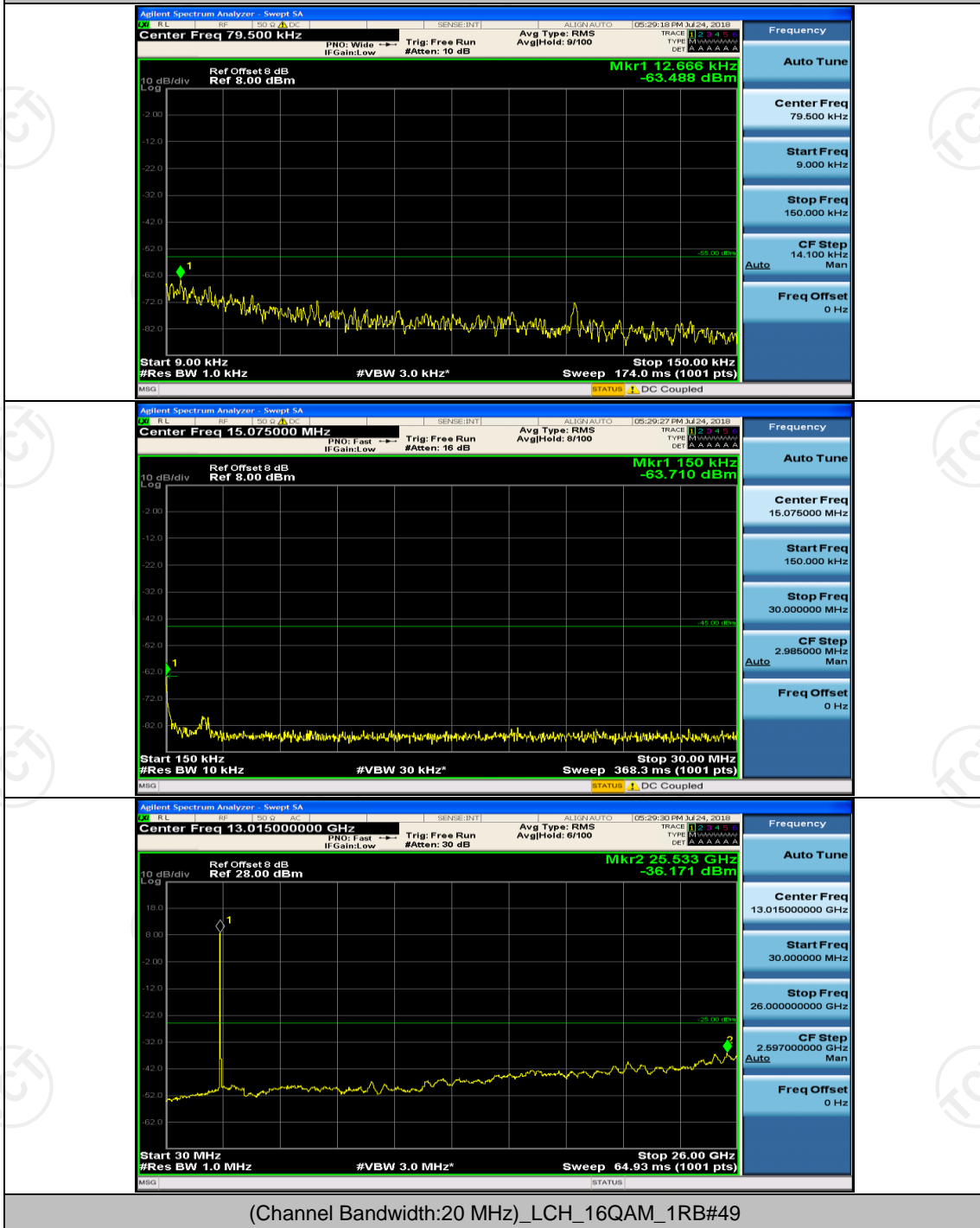


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

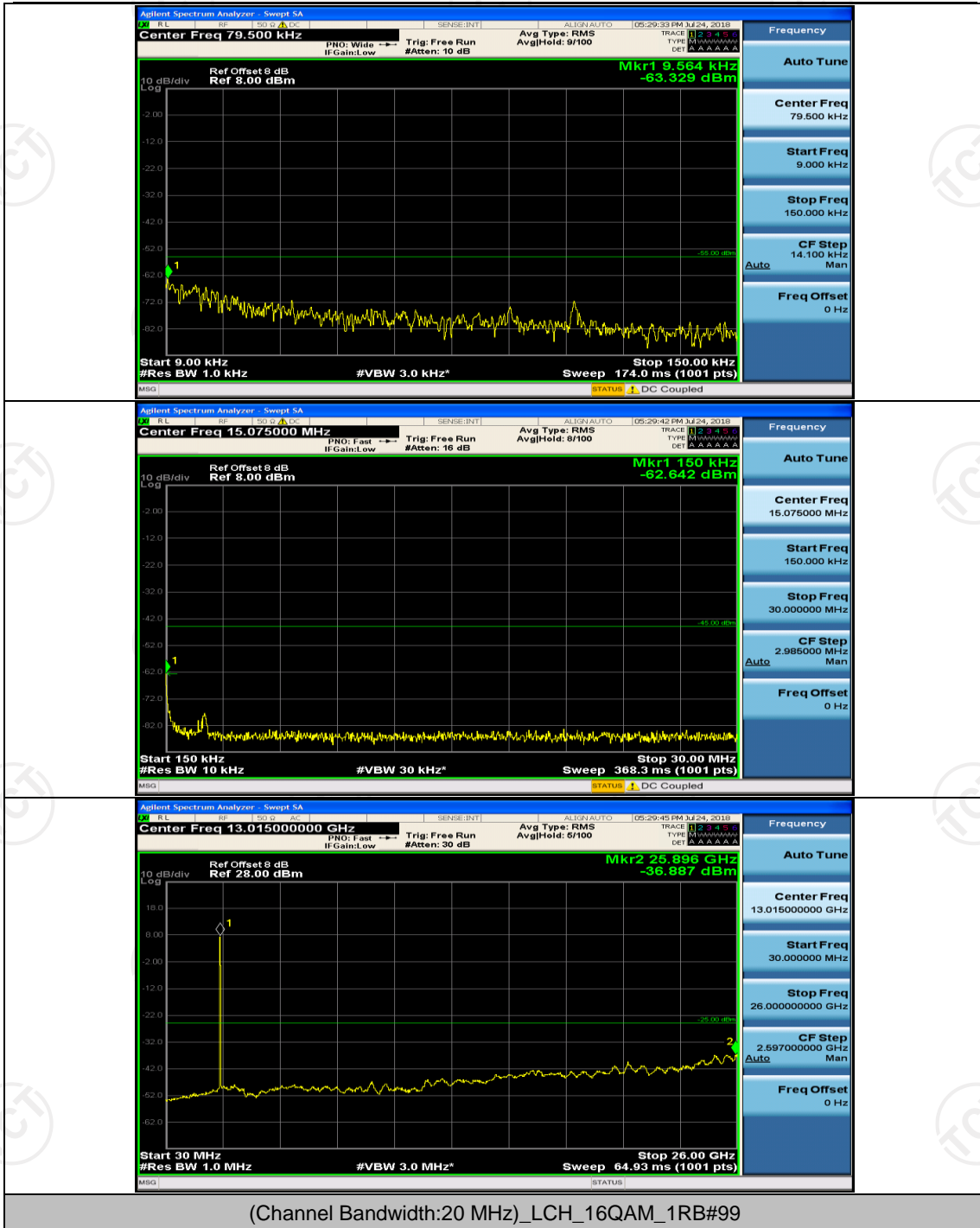


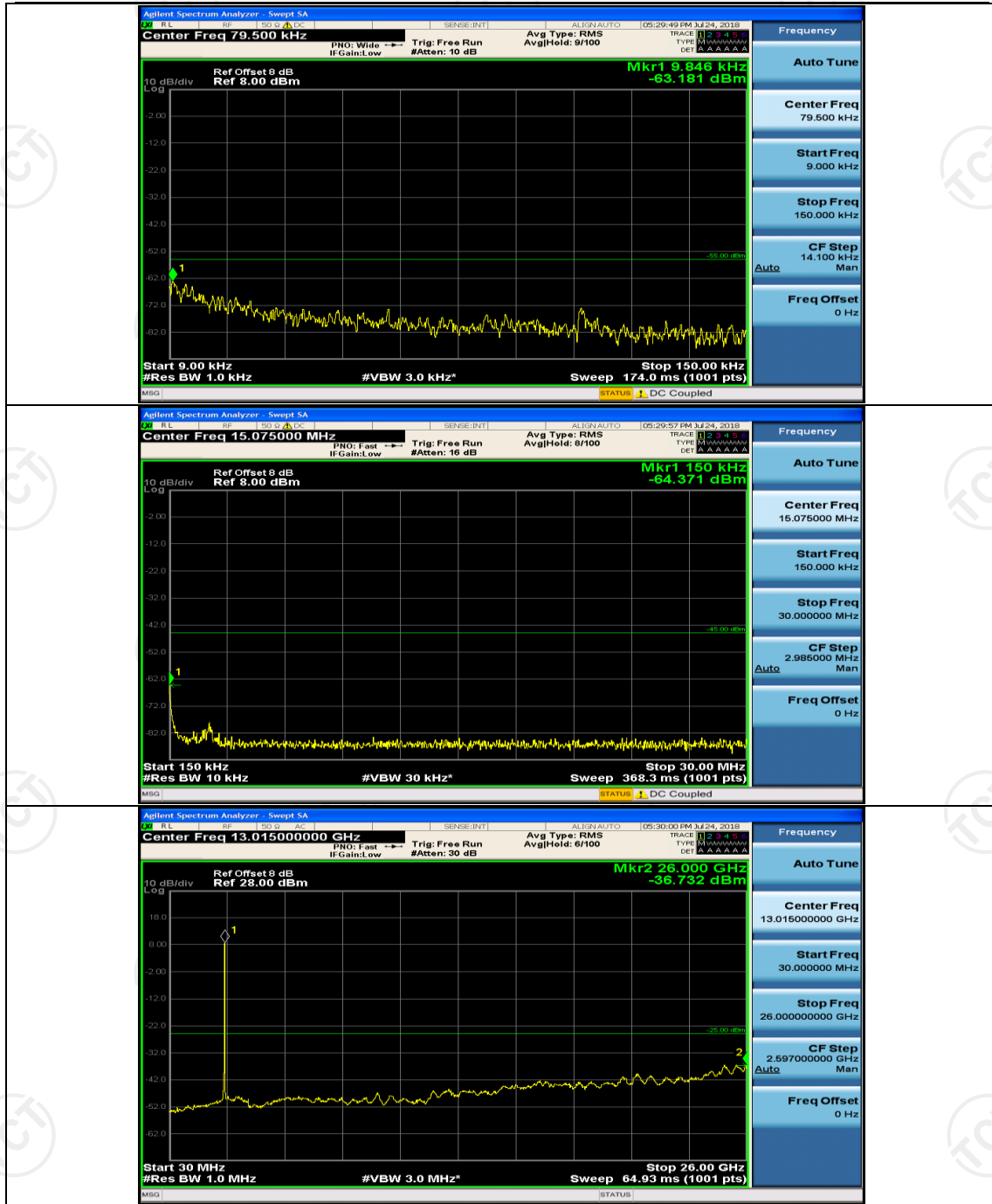


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

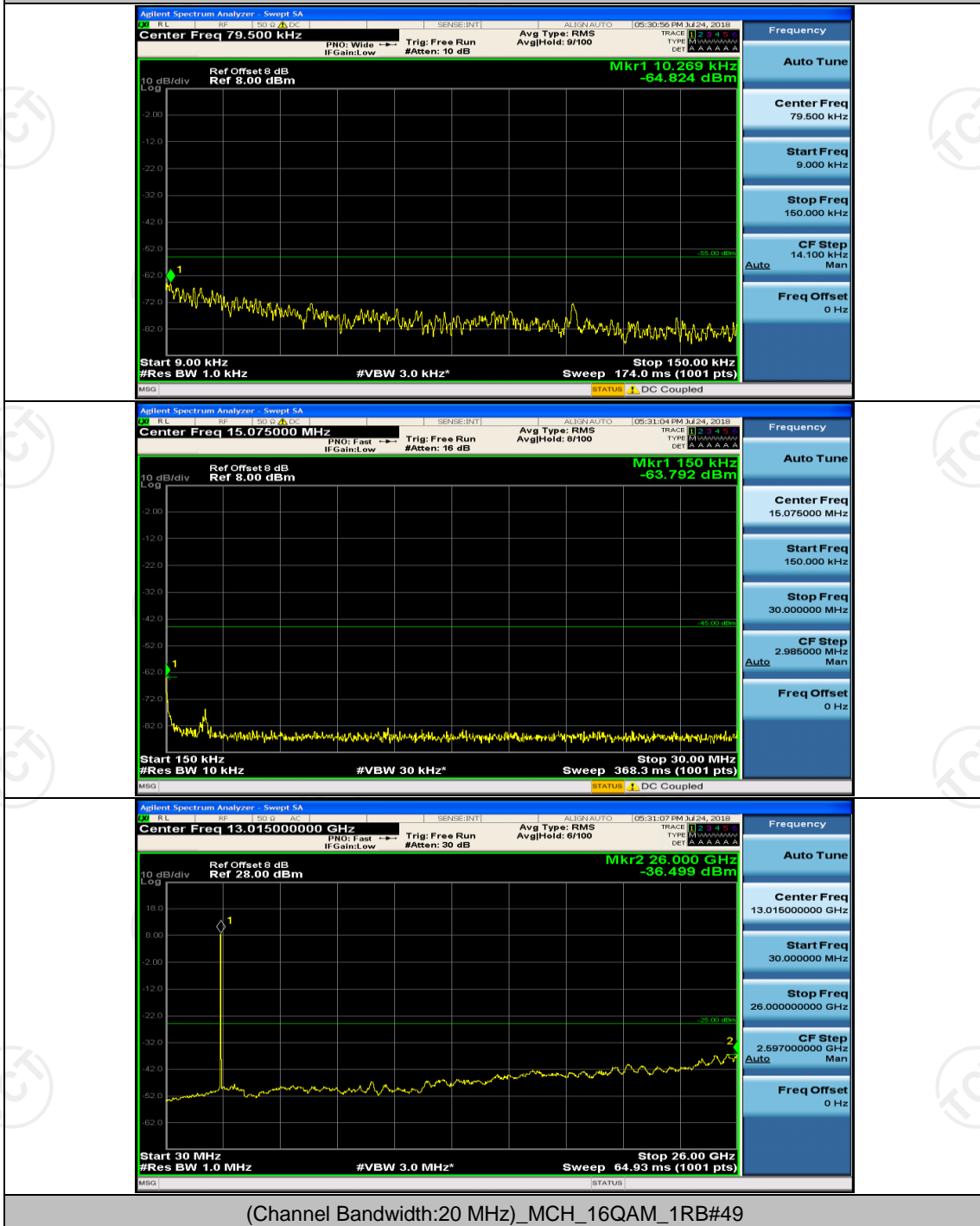


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

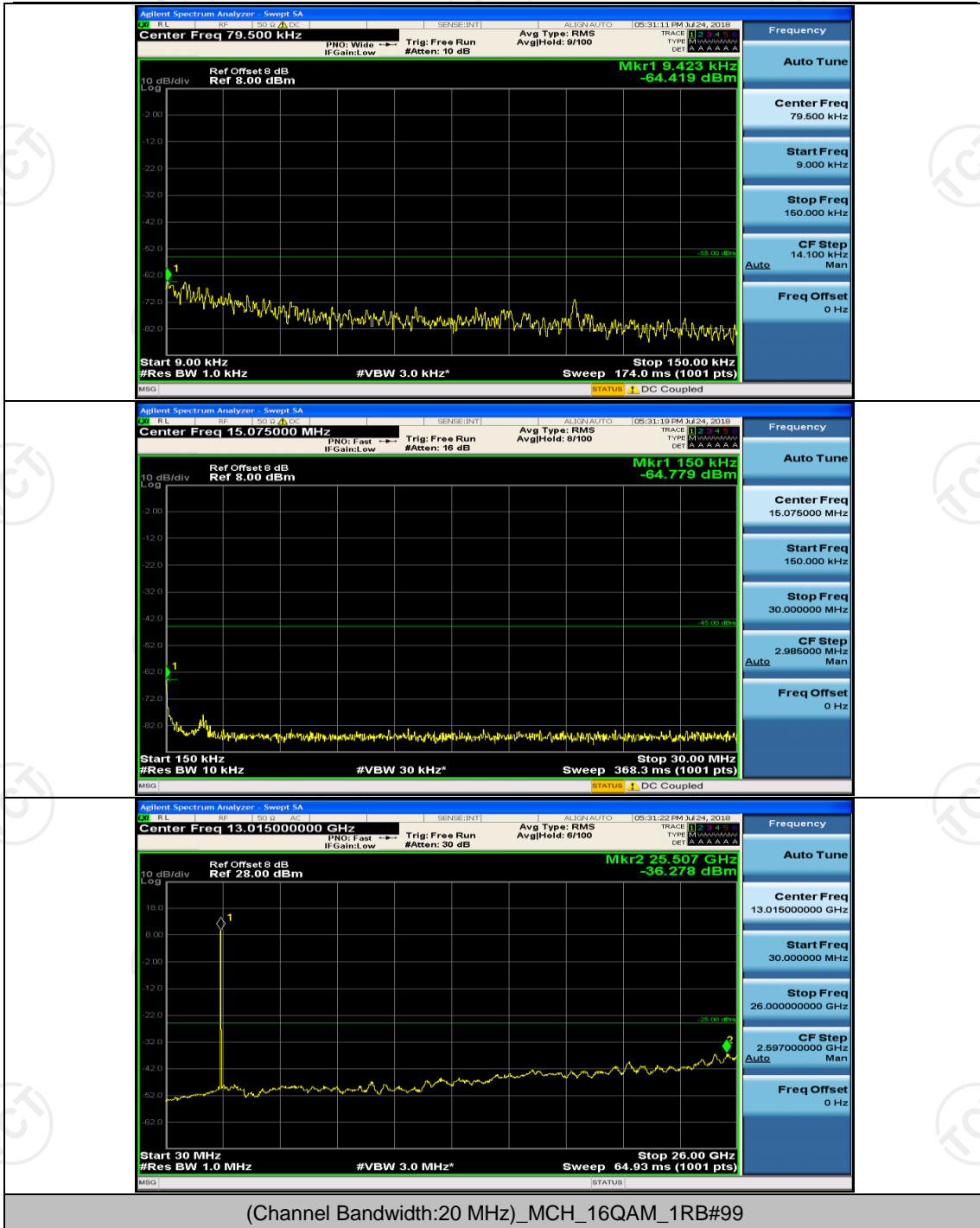


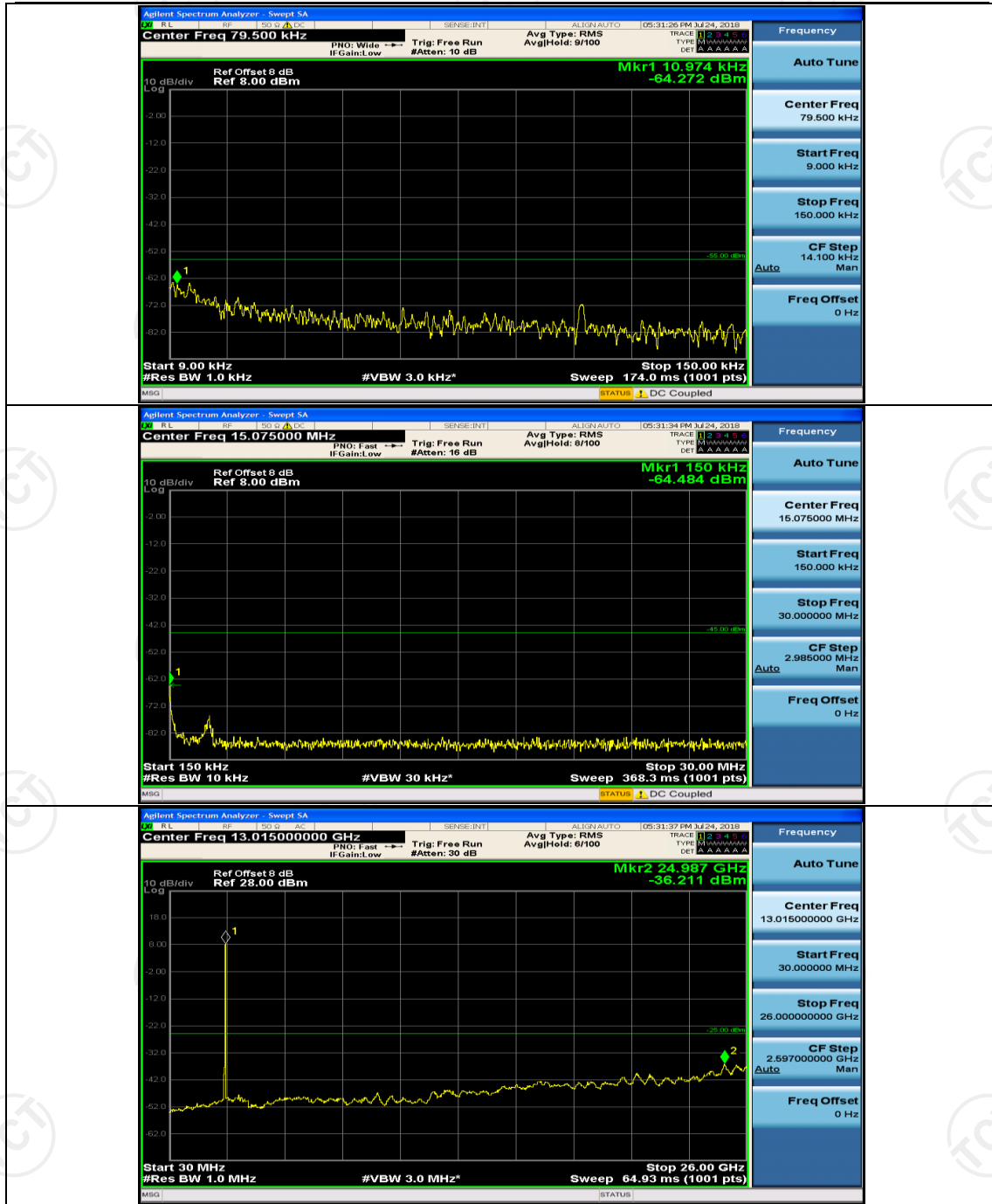


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

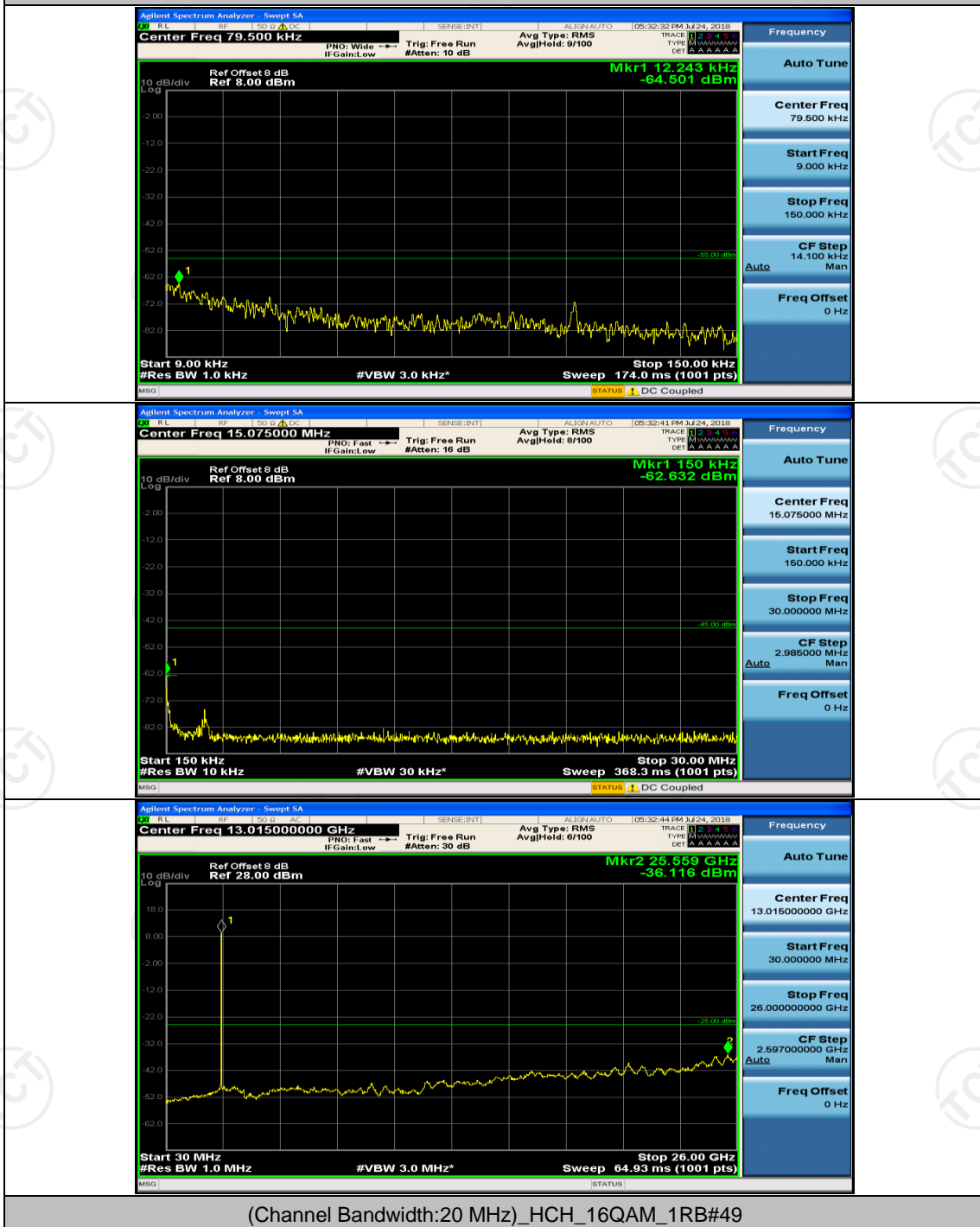


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

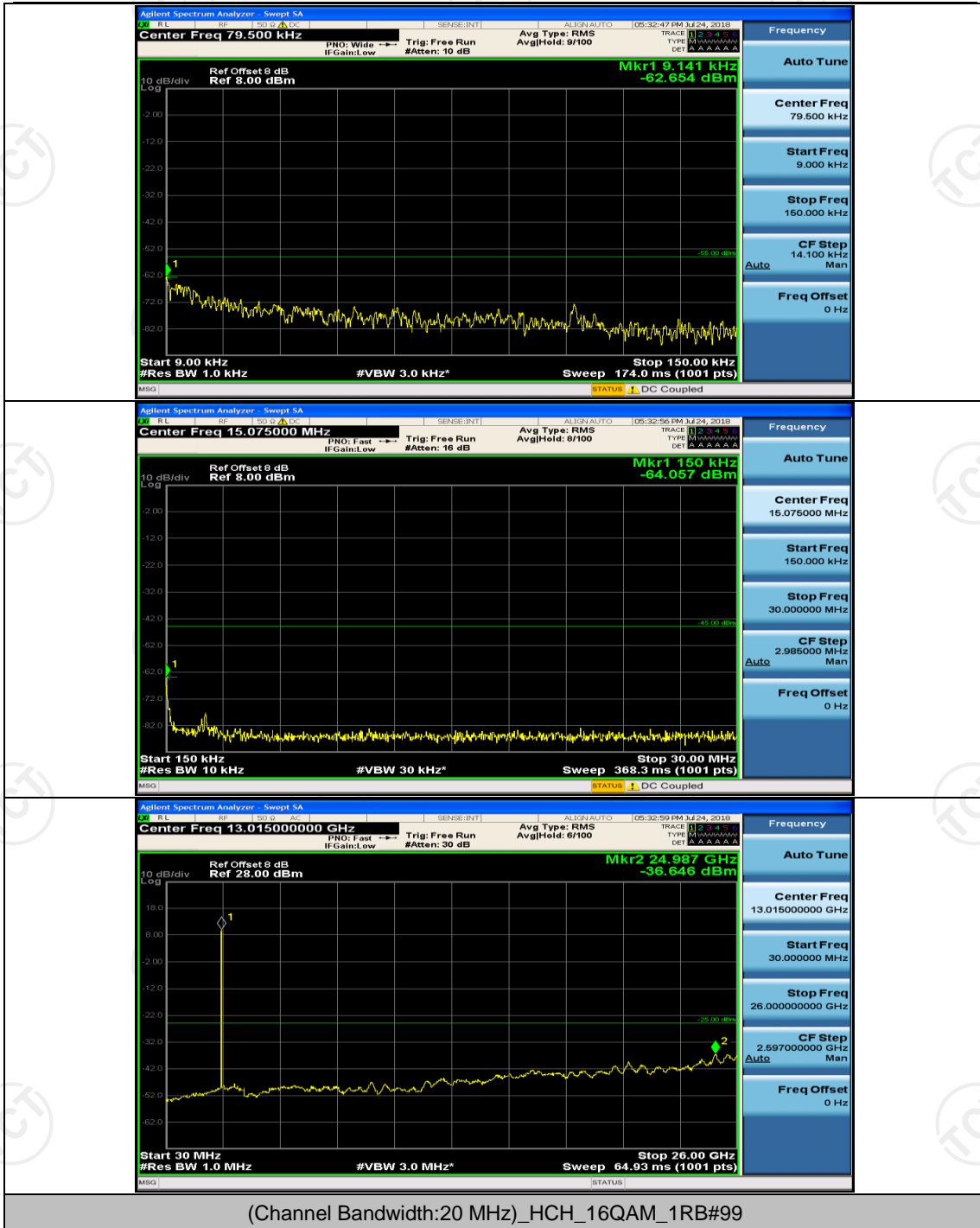


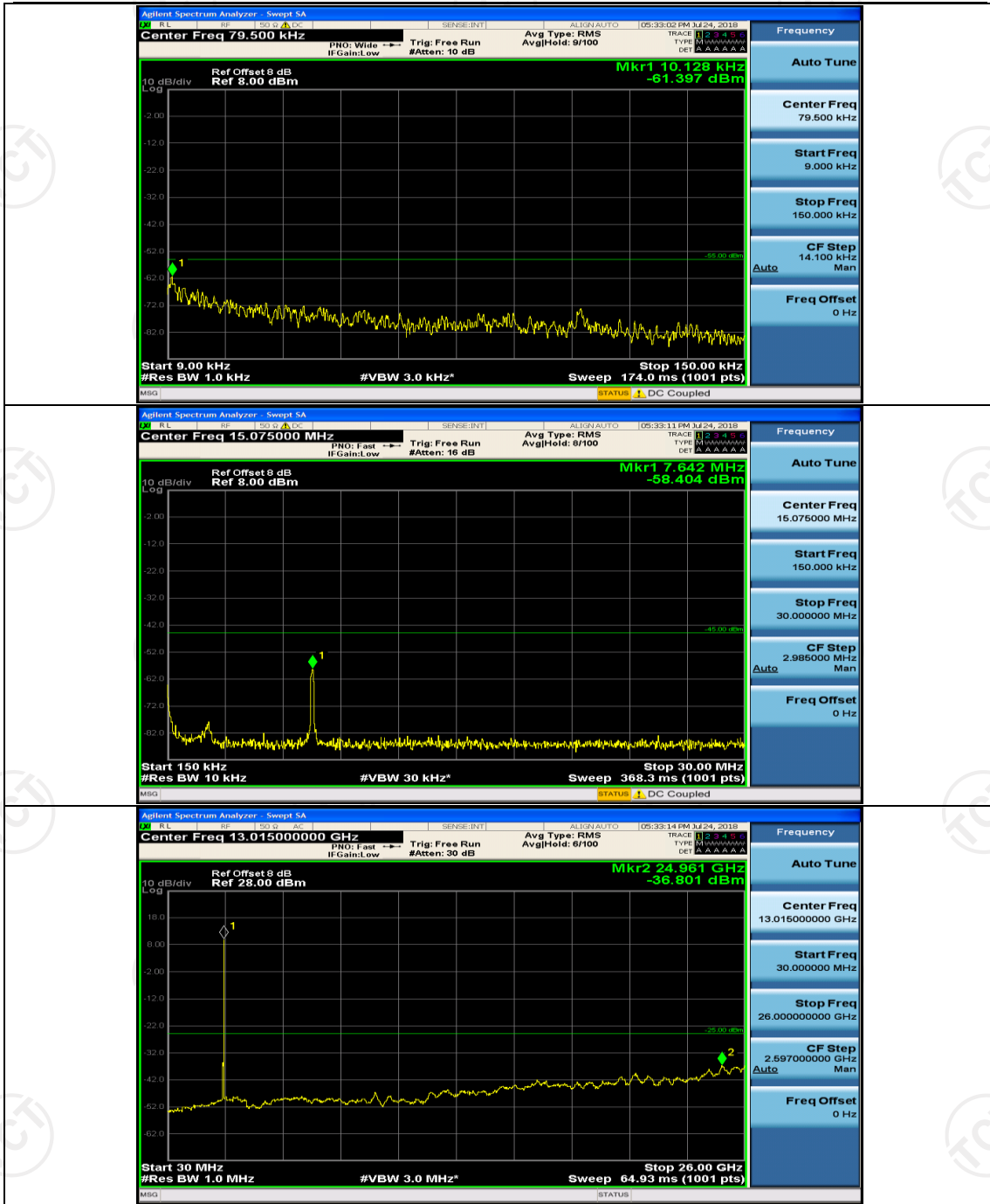


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.5	25	-0.002695	± 2.5	PASS
		3.7	25	-0.003481	± 2.5	PASS
		4.2	25	-0.002710	± 2.5	PASS
	MCH	3.5	25	-0.002037	± 2.5	PASS
		3.7	25	0.000339	± 2.5	PASS
		4.2	25	-0.000773	± 2.5	PASS
	HCH	3.5	25	0.000139	± 2.5	PASS
		3.7	25	-0.001788	± 2.5	PASS
		4.2	25	-0.000759	± 2.5	PASS
16QAM	LCH	3.5	25	-0.002261	± 2.5	PASS
		3.7	25	-0.001223	± 2.5	PASS
		4.2	25	-0.003183	± 2.5	PASS
	MCH	3.5	25	-0.002015	± 2.5	PASS
		3.7	25	-0.000643	± 2.5	PASS
		4.2	25	-0.001433	± 2.5	PASS
	HCH	3.5	25	-0.003419	± 2.5	PASS
		3.7	25	-0.002764	± 2.5	PASS
		4.2	25	-0.001267	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	-0.002501	± 2.5	PASS
		3.7	-20	-0.003552	± 2.5	PASS
		3.7	-10	-0.003032	± 2.5	PASS
		3.7	0	-0.003101	± 2.5	PASS
		3.7	10	-0.002295	± 2.5	PASS
		3.7	20	-0.001509	± 2.5	PASS
		3.7	30	-0.003167	± 2.5	PASS
		3.7	40	-0.004584	± 2.5	PASS
		3.7	50	-0.002338	± 2.5	PASS
	MCH	3.7	-30	-0.001202	± 2.5	PASS
		3.7	-20	-0.003911	± 2.5	PASS
		3.7	-10	-0.001445	± 2.5	PASS
		3.7	0	-0.002122	± 2.5	PASS
		3.7	10	-0.003059	± 2.5	PASS
		3.7	20	-0.001445	± 2.5	PASS

		3.7	30	-0.001388	± 2.5	PASS	
		3.7	40	-0.001326	± 2.5	PASS	
		3.7	50	-0.000807	± 2.5	PASS	
	HCH	3.7	-30	-0.000803	± 2.5	PASS	
		3.7	-20	-0.001723	± 2.5	PASS	
		3.7	-10	-0.001852	± 2.5	PASS	
		3.7	0	-0.002504	± 2.5	PASS	
		3.7	10	-0.002114	± 2.5	PASS	
		3.7	20	0.000914	± 2.5	PASS	
		3.7	30	0.001471	± 2.5	PASS	
		3.7	40	0.000262	± 2.5	PASS	
		3.7	50	0.000072	± 2.5	PASS	
		16QAM	LCH	3.7	-30	-0.002204	± 2.5
3.7	-20			-0.000782	± 2.5	PASS	
3.7	-10			-0.001947	± 2.5	PASS	
3.7	0			-0.002850	± 2.5	PASS	
3.7	10			-0.003879	± 2.5	PASS	
3.7	20			-0.000617	± 2.5	PASS	
3.7	30			0.000800	± 2.5	PASS	
3.7	40			-0.003024	± 2.5	PASS	
MCH	3.7		50	-0.000086	± 2.5	PASS	
	3.7		-30	-0.000784	± 2.5	PASS	
	3.7		-20	0.000254	± 2.5	PASS	
	3.7		-10	-0.001428	± 2.5	PASS	
	3.7		0	-0.001287	± 2.5	PASS	
	3.7		10	-0.001377	± 2.5	PASS	
	3.7		20	-0.001270	± 2.5	PASS	
	3.7		30	-0.001185	± 2.5	PASS	
	3.7		40	-0.003358	± 2.5	PASS	
	3.7		50	-0.000006	± 2.5	PASS	
HCH	3.7		-30	-0.001896	± 2.5	PASS	
	3.7		-20	-0.002030	± 2.5	PASS	
	3.7		-10	-0.002844	± 2.5	PASS	
	3.7		0	-0.002214	± 2.5	PASS	
	3.7		10	-0.004947	± 2.5	PASS	
	3.7		20	-0.000435	± 2.5	PASS	
	3.7		30	-0.001549	± 2.5	PASS	
	3.7		40	-0.003649	± 2.5	PASS	
			3.7	50	0.000797	± 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:	5M		Test channel:	Lowest
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)		
5005.0	Vertical	-42.38	-13.00	PASS
7507.5	V	-49.34		
-	V	-		
5005.0	Horizontal	-44.54		
7507.5	H	-50.41		
-	H	-		
Bandwidth:	5M		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)		
5070.0	Vertical	-41.27	-13.00	PASS
7605.0	V	-49.51		
-	V	-		
5070.0	Horizontal	-43.54		
7605.0	H	-50.78		
-	H	-		
Bandwidth:	5M		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)		
5135.0	Vertical	-43.87	-13.00	PASS
7702.5	V	-51.22		
-	V	-		
5135.0	Horizontal	-41.55		
7702.5	H	-49.24		
-	H	-		

Bandwidth:	5M		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)		
5005.0	Vertical	-42.85	-13.00	PASS
7507.5	V	-49.36		
-	V	-		
5005.0	Horizontal	-44.65		
7507.5	H	-51.74		
-	H	-		
Bandwidth:	5M		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)		
5070.0	Vertical	-43.51	-13.00	PASS
7605.0	V	-50.22		
-	V	-		
5070.0	Horizontal	-42.45		
7605.0	H	-49.50		
-	H	-		
Bandwidth:	5M		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)		
5135.0	Vertical	-44.21	-13.00	PASS
7702.5	V	-50.68		
-	V	-		
5135.0	Horizontal	-43.14		
7702.5	H	-49.72		
-	H	-		

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