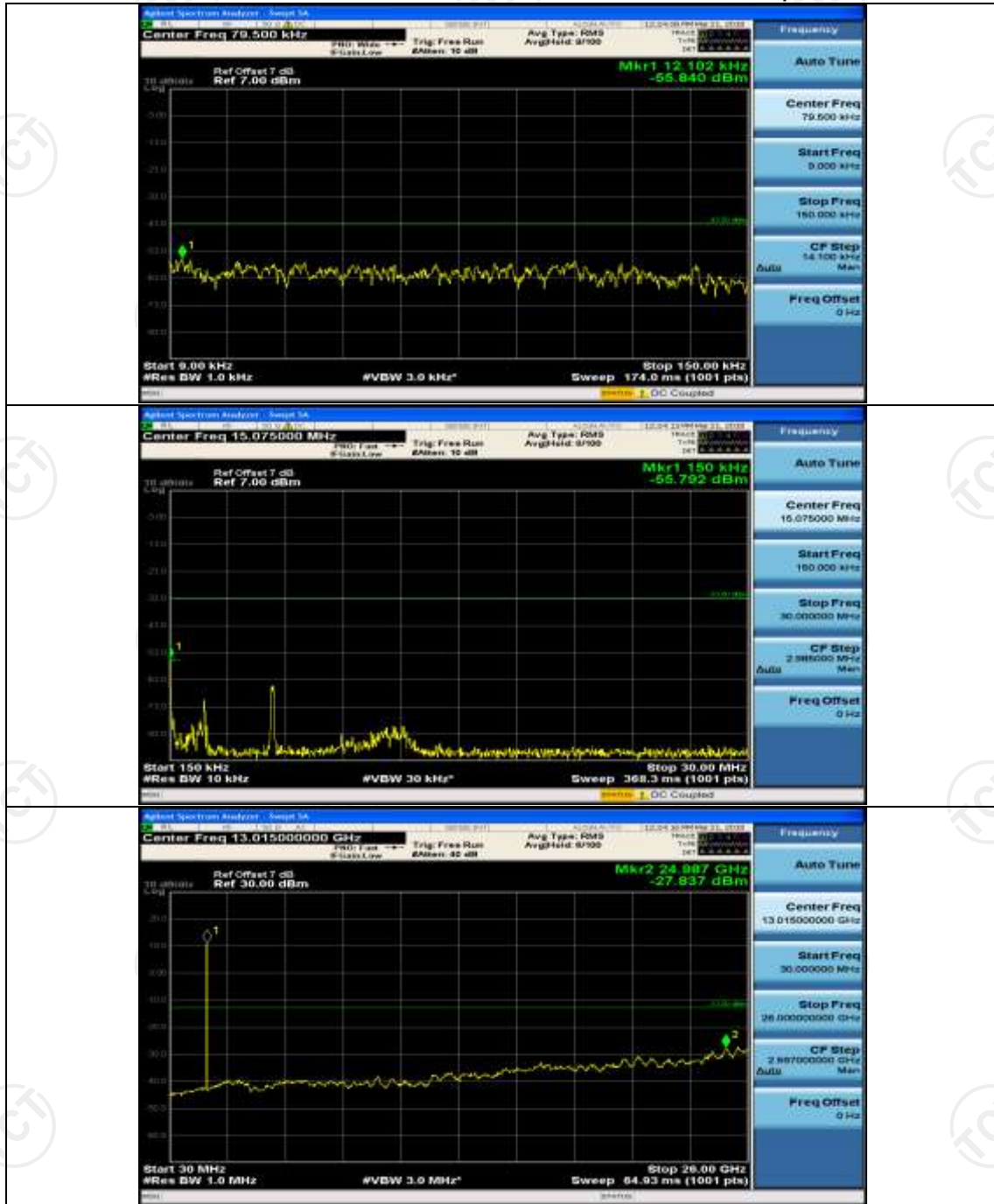
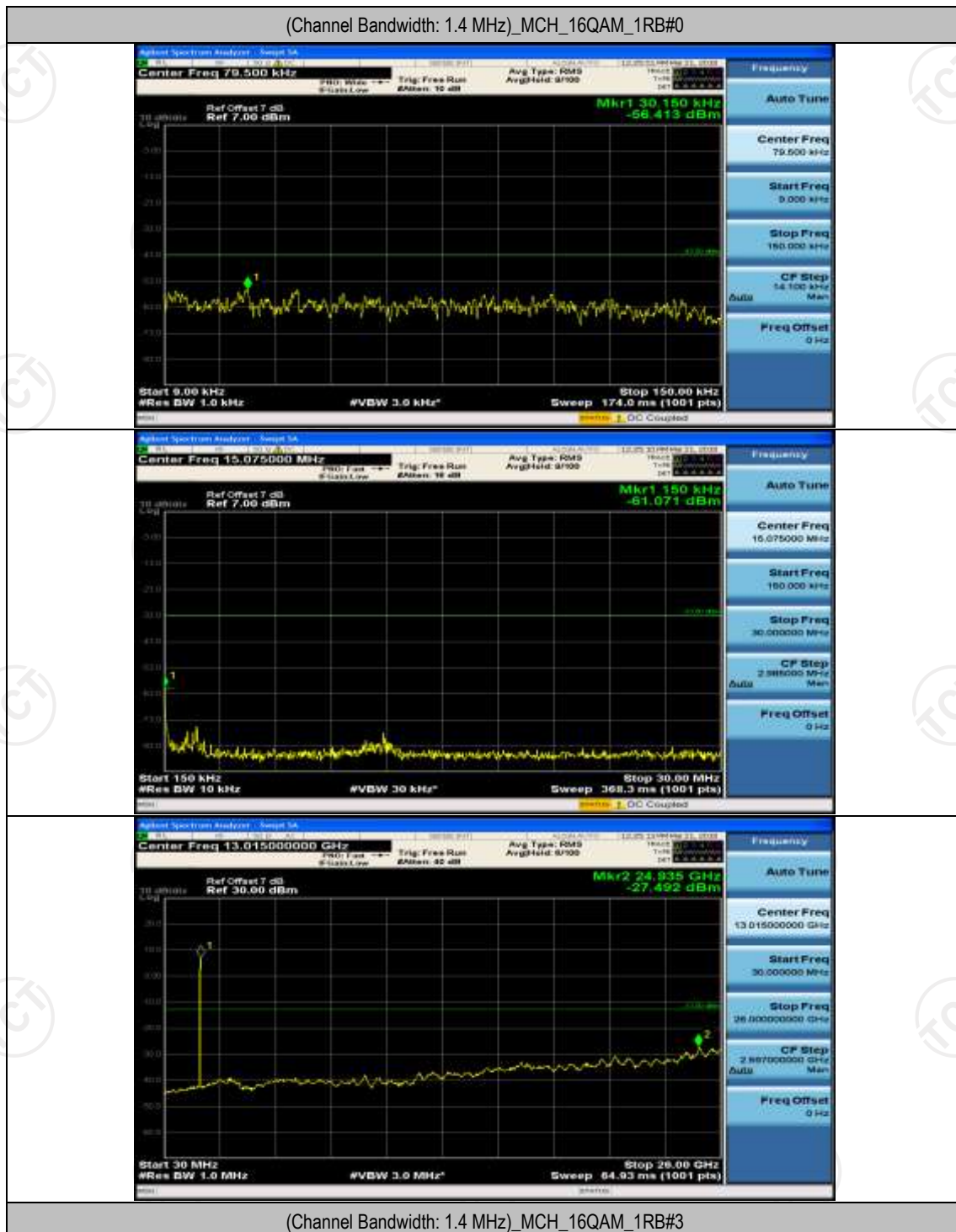
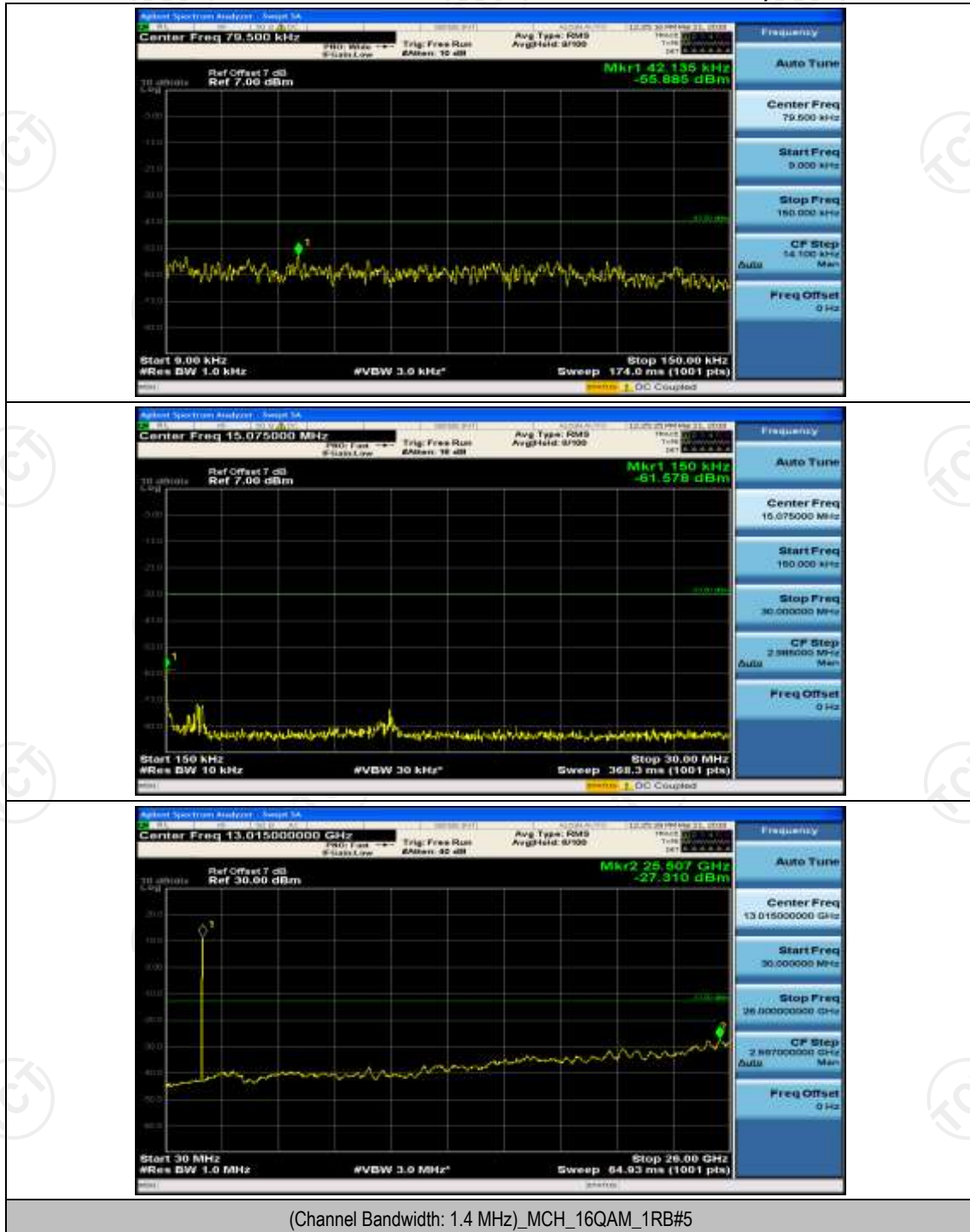
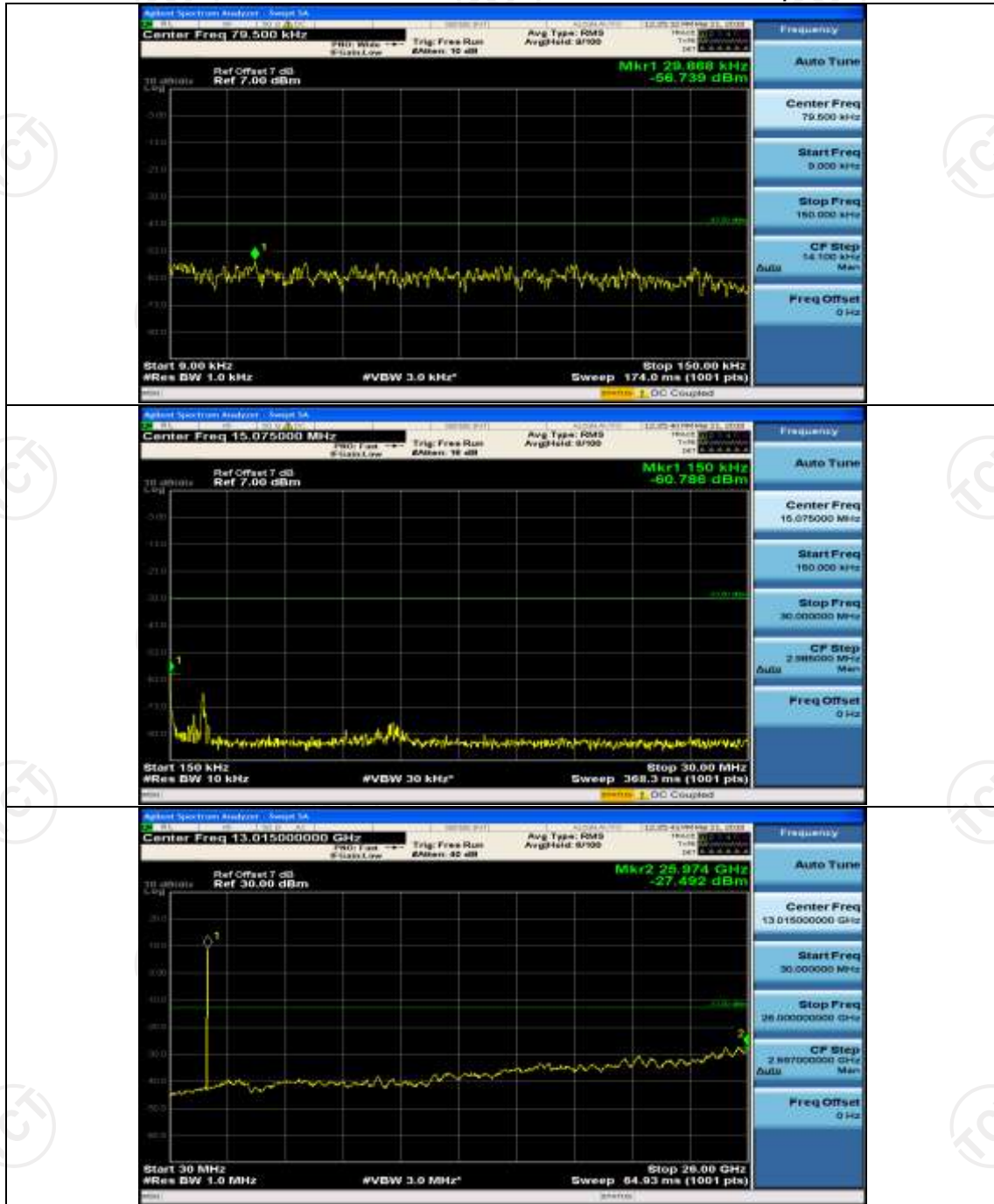
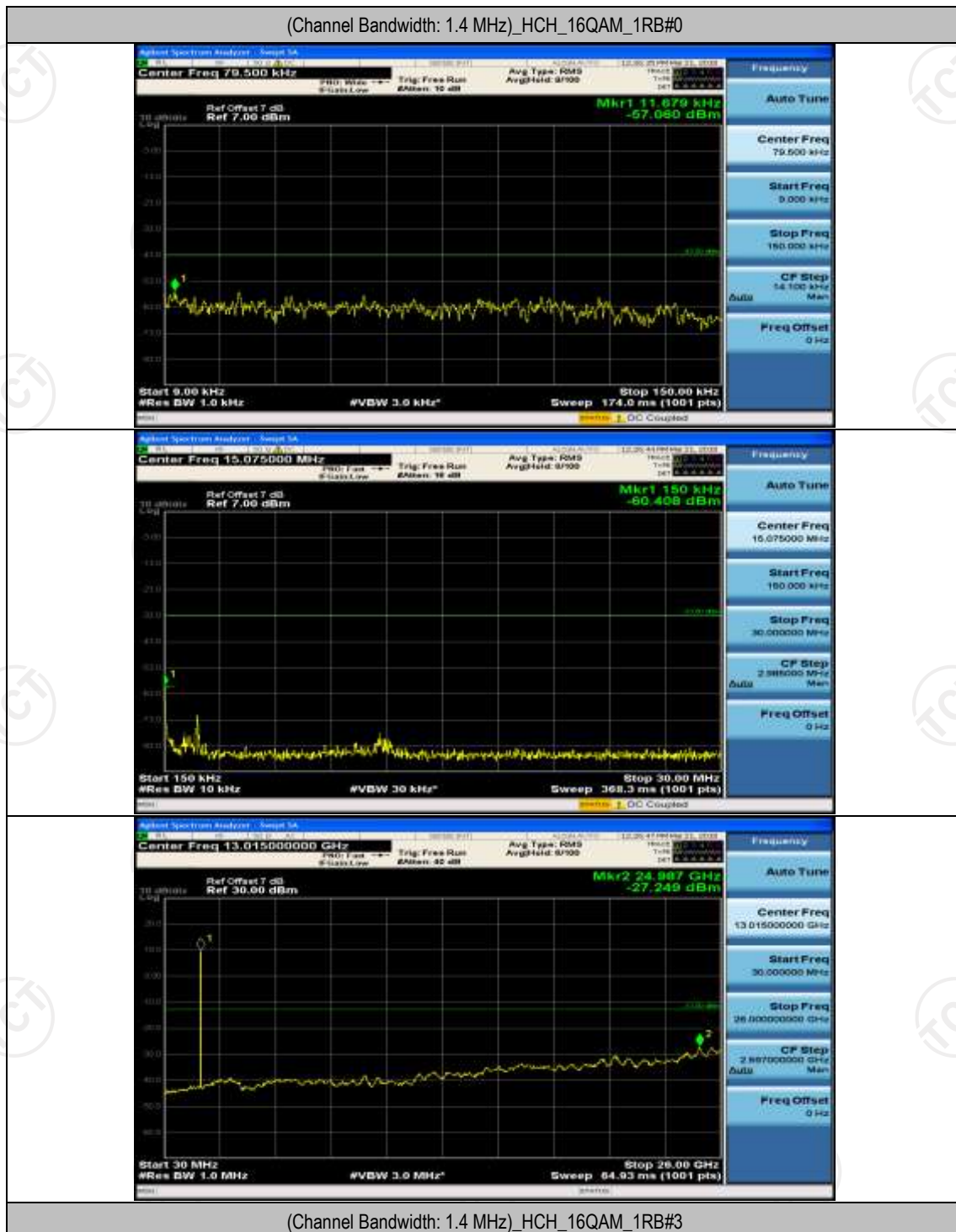


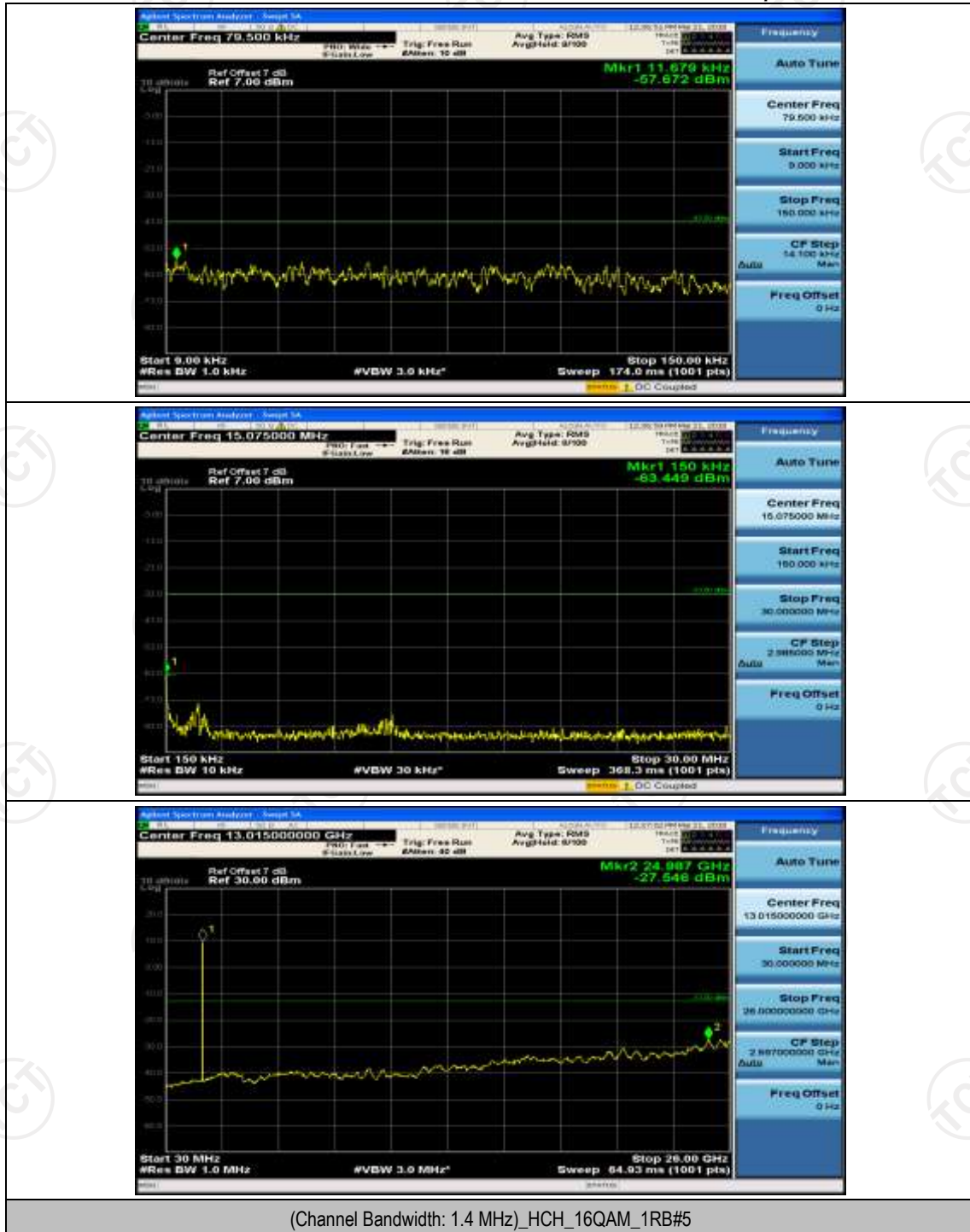


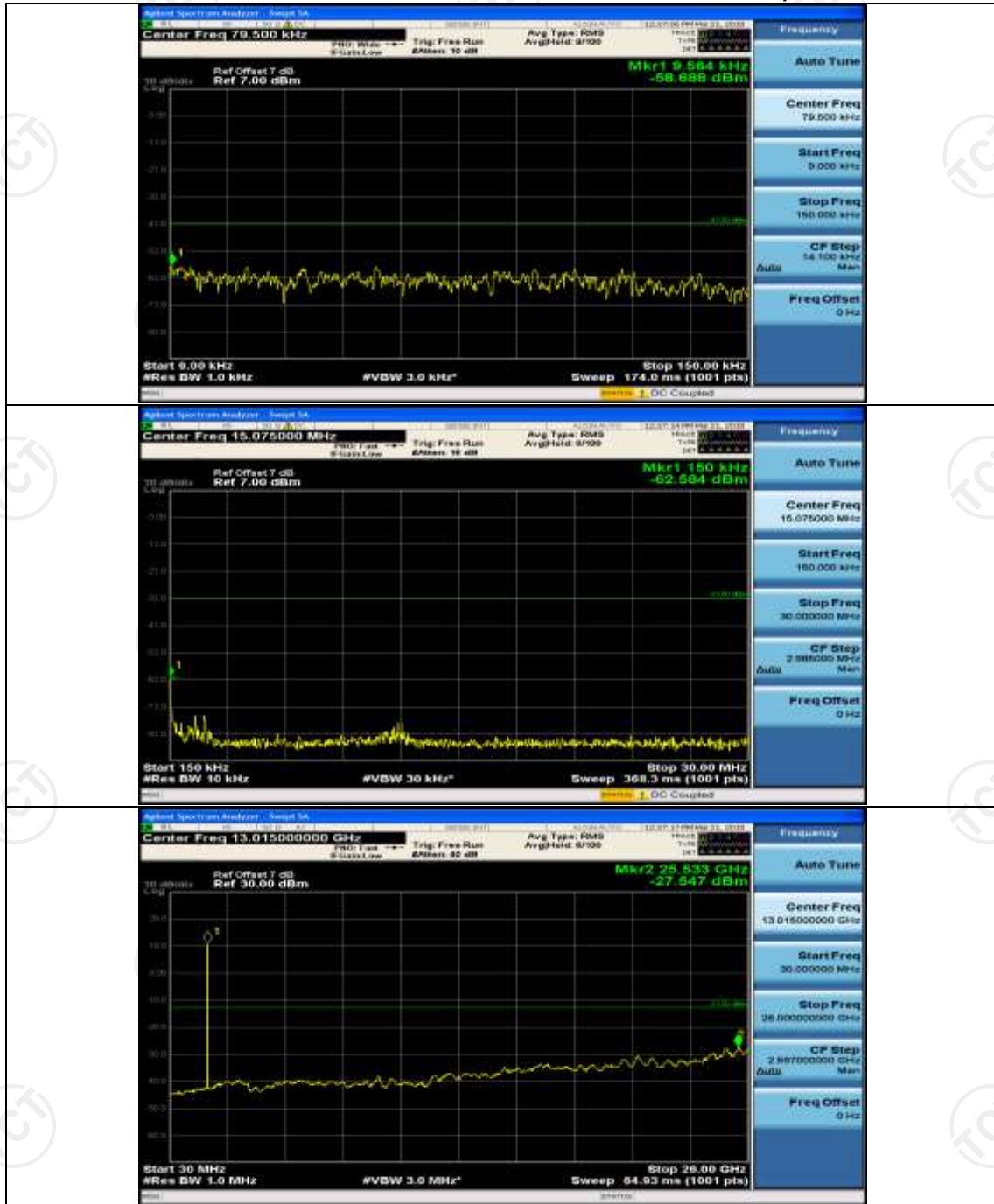






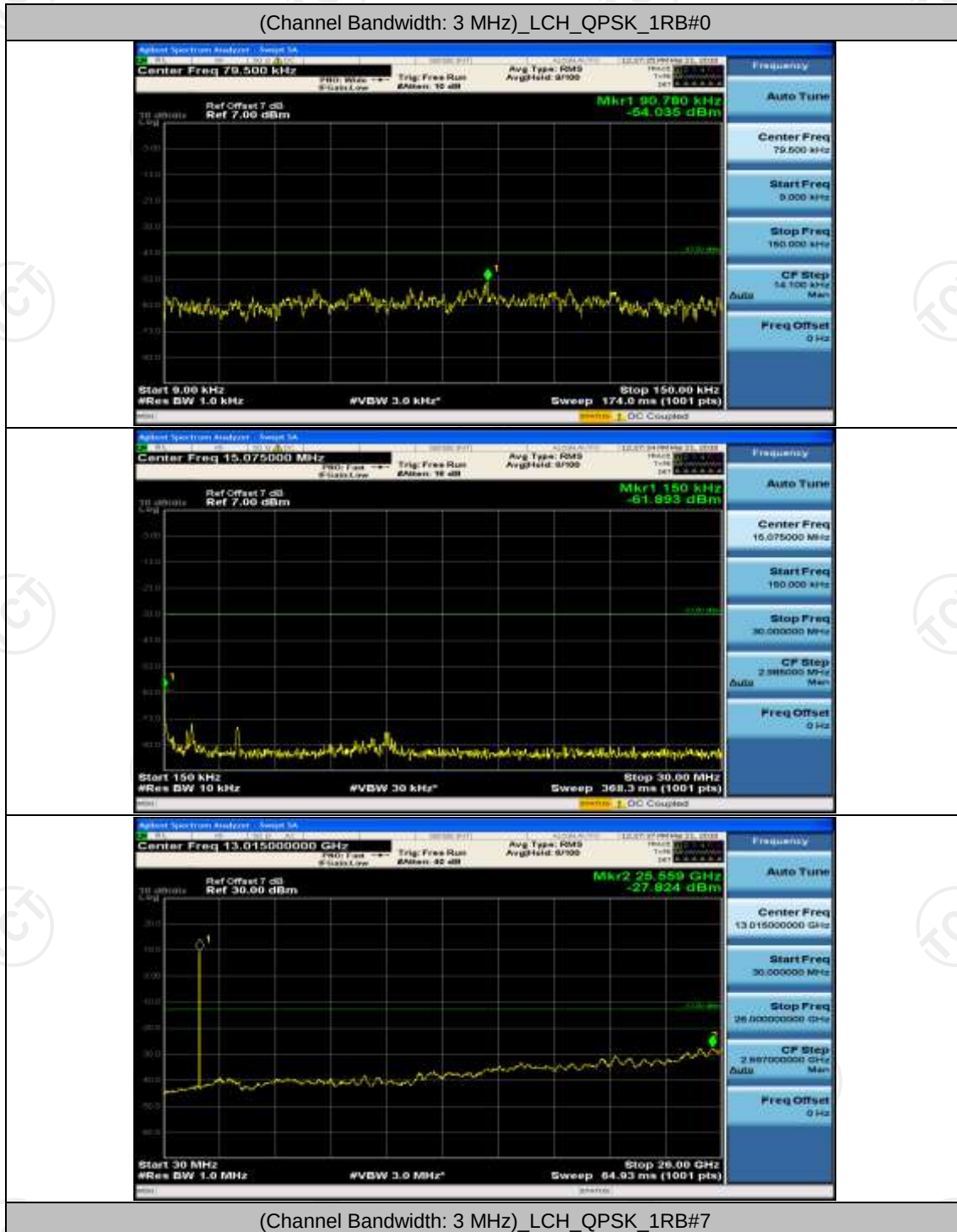


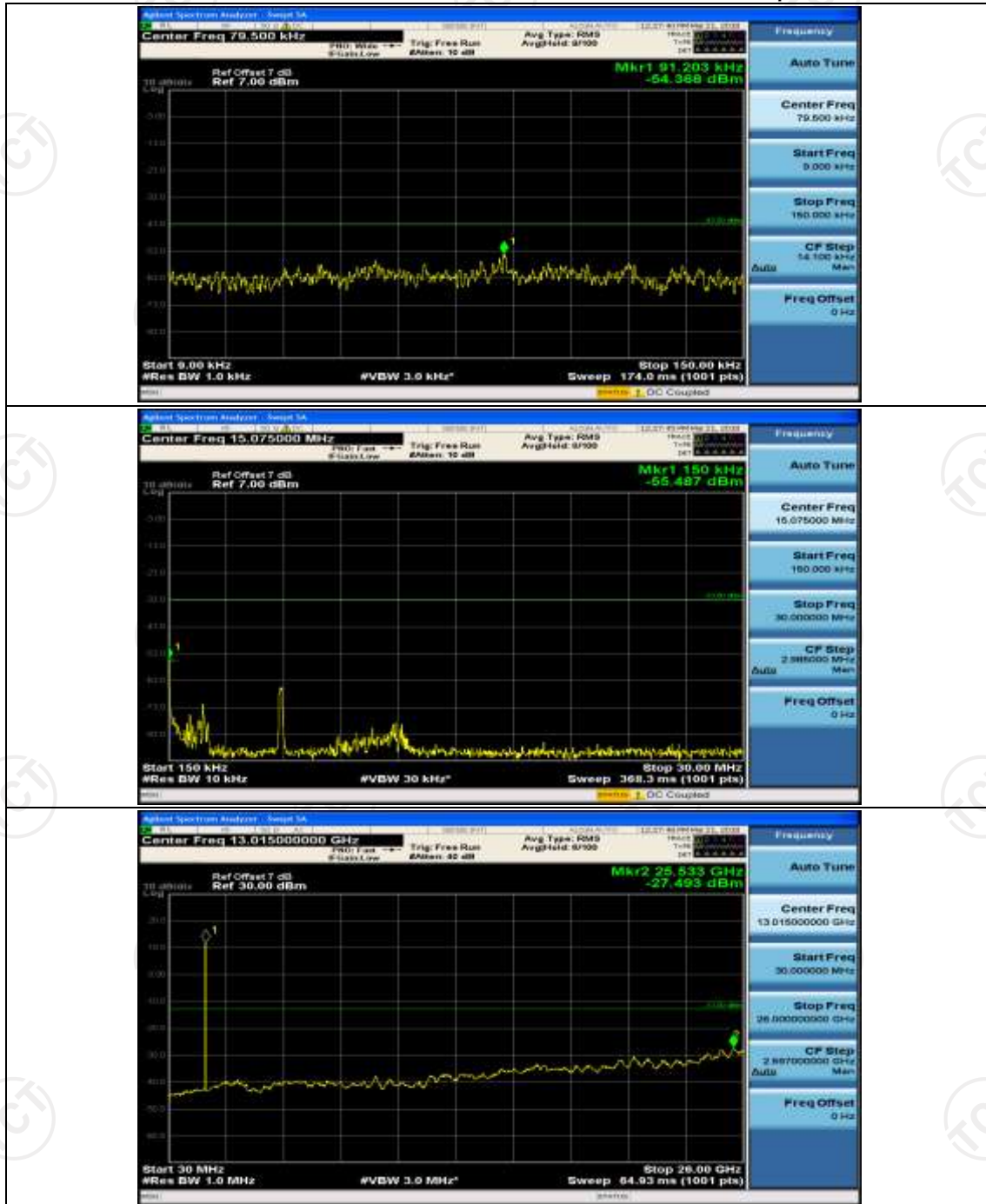


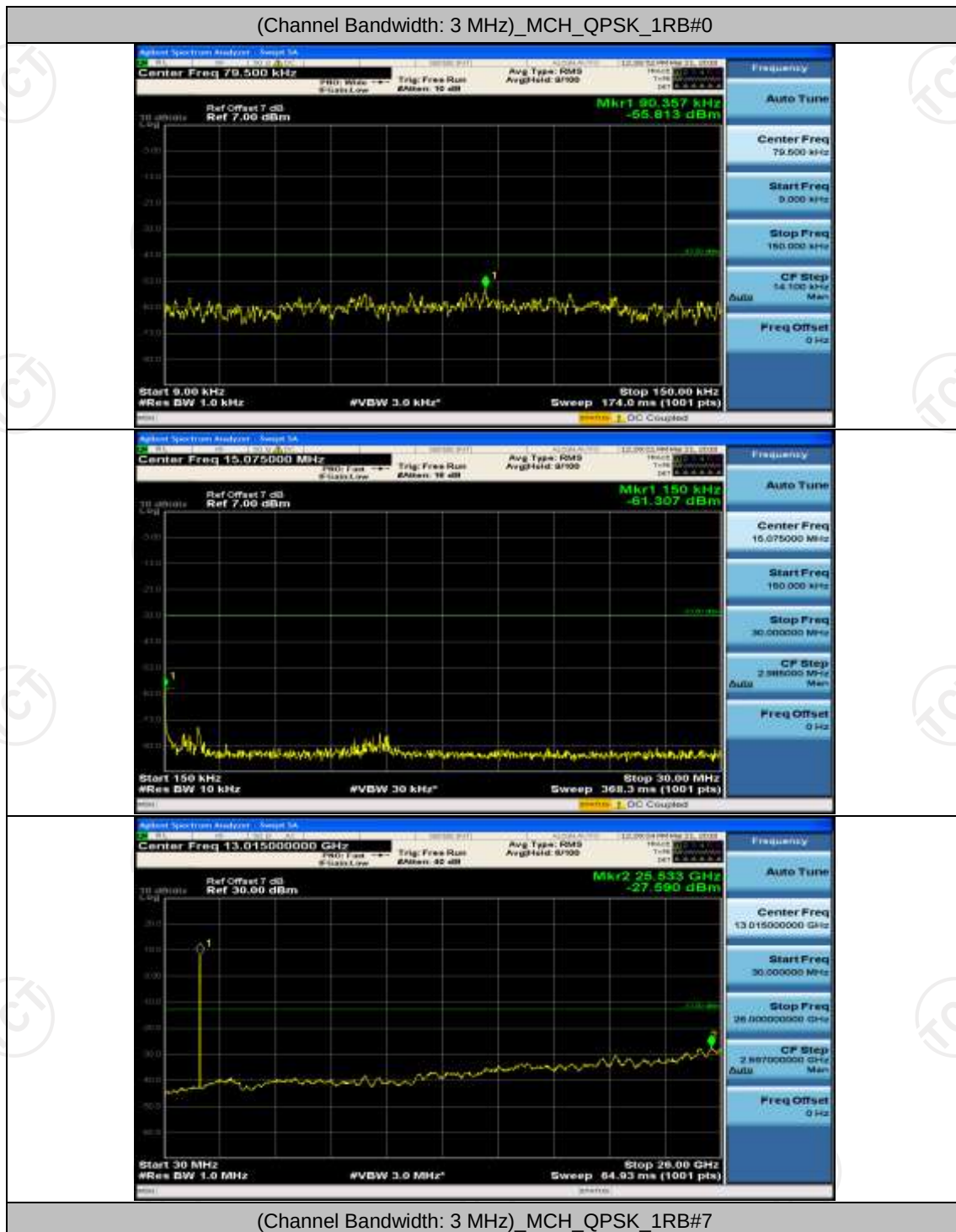


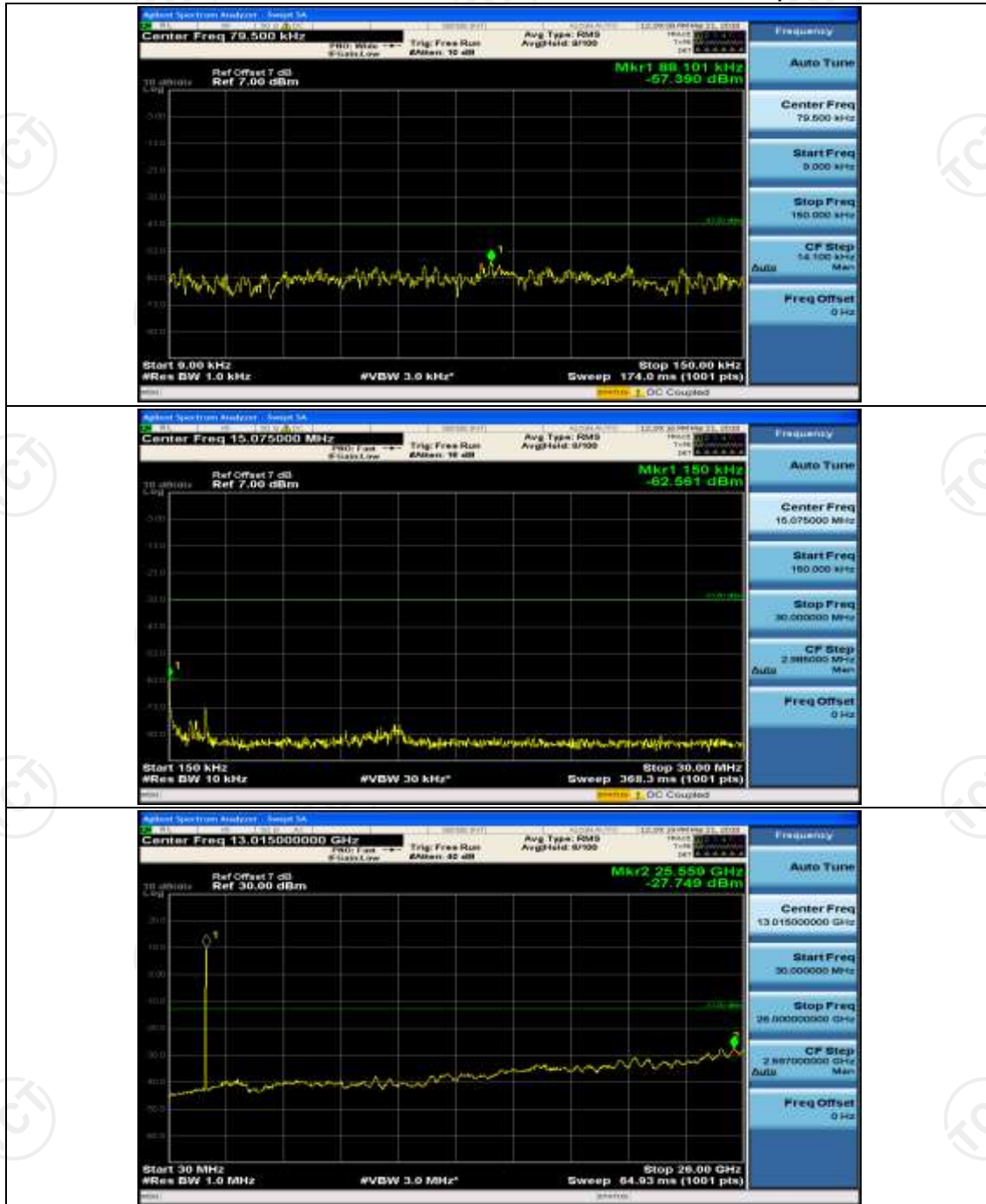
Channel Bandwidth: 3 MHz

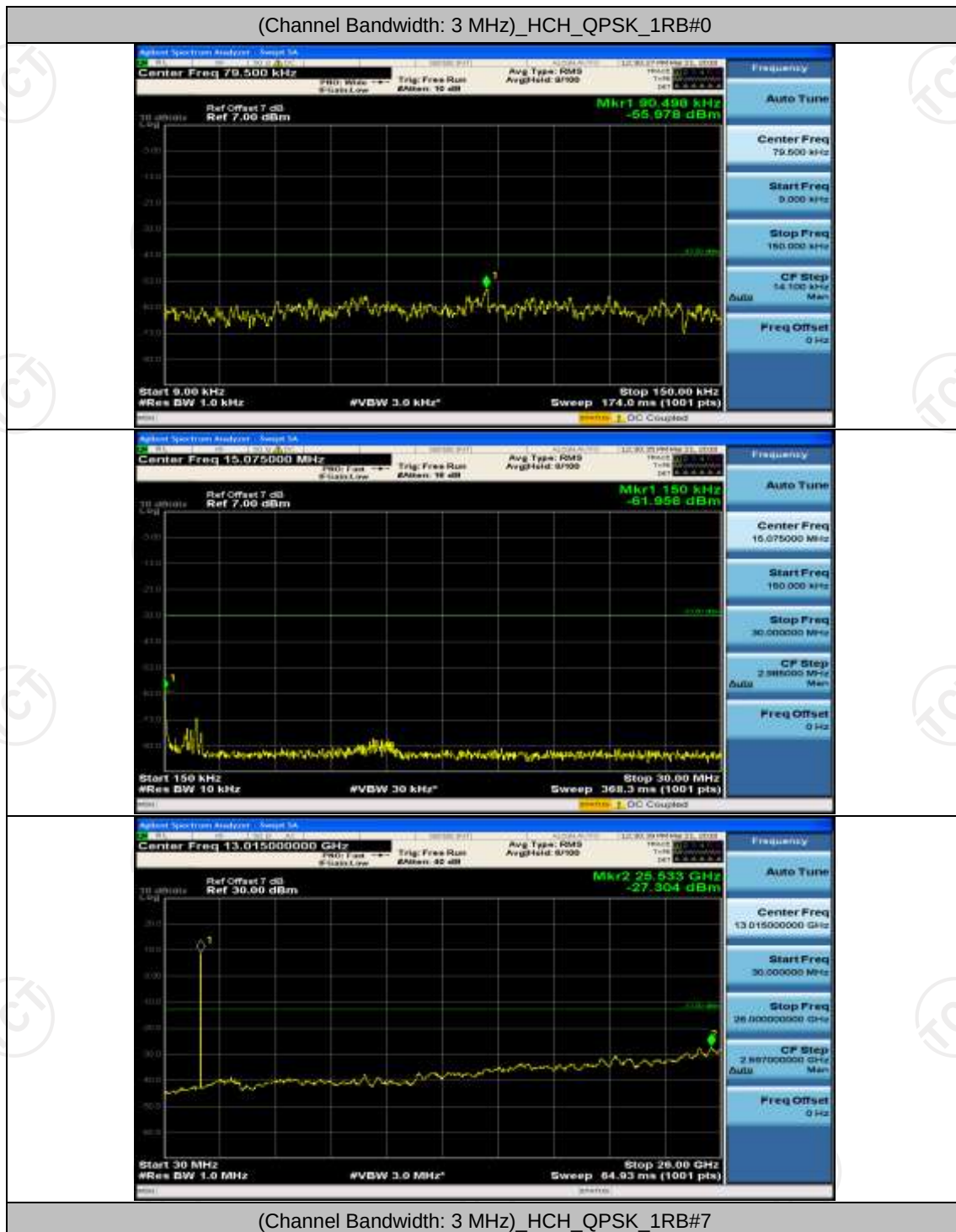
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

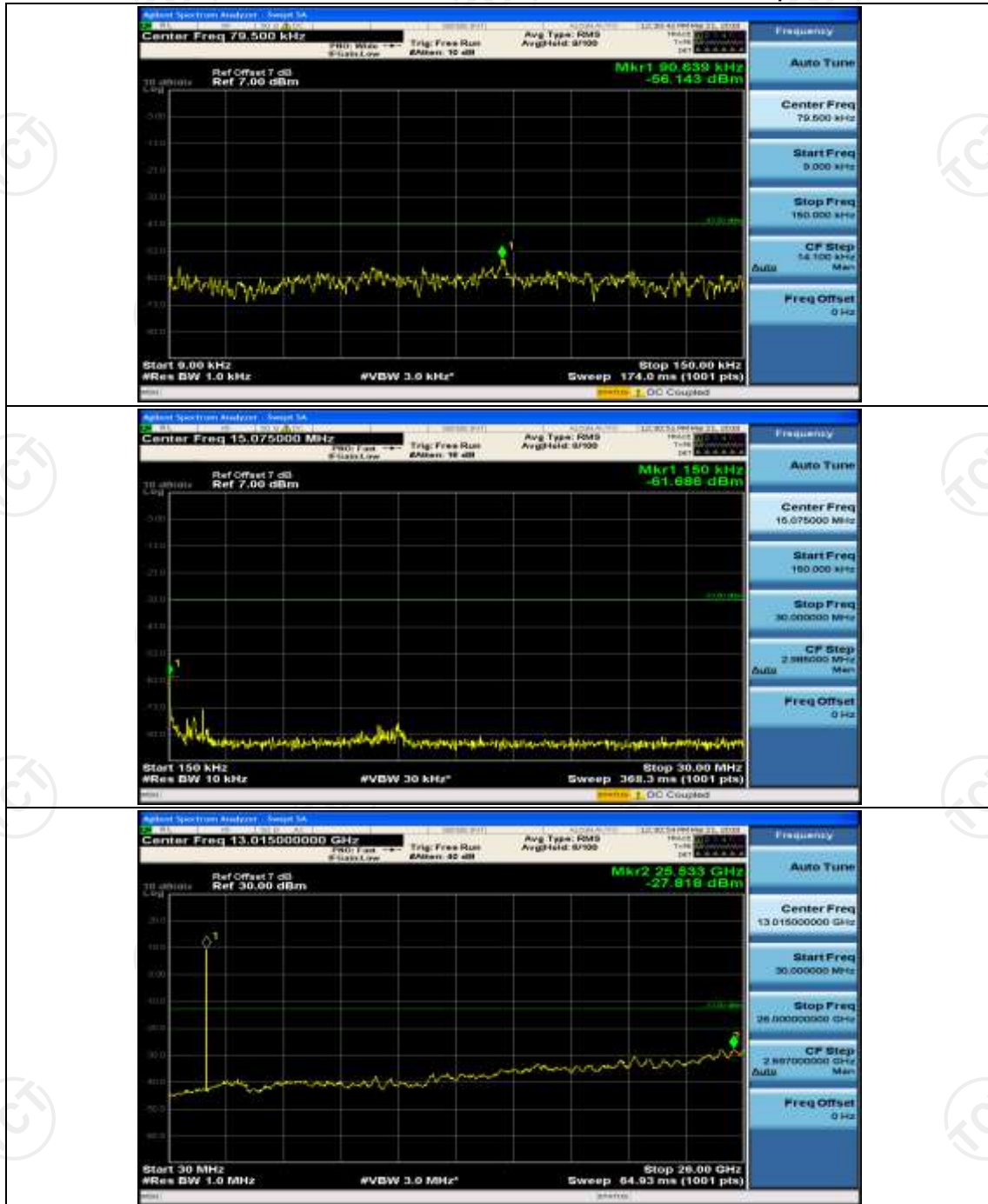


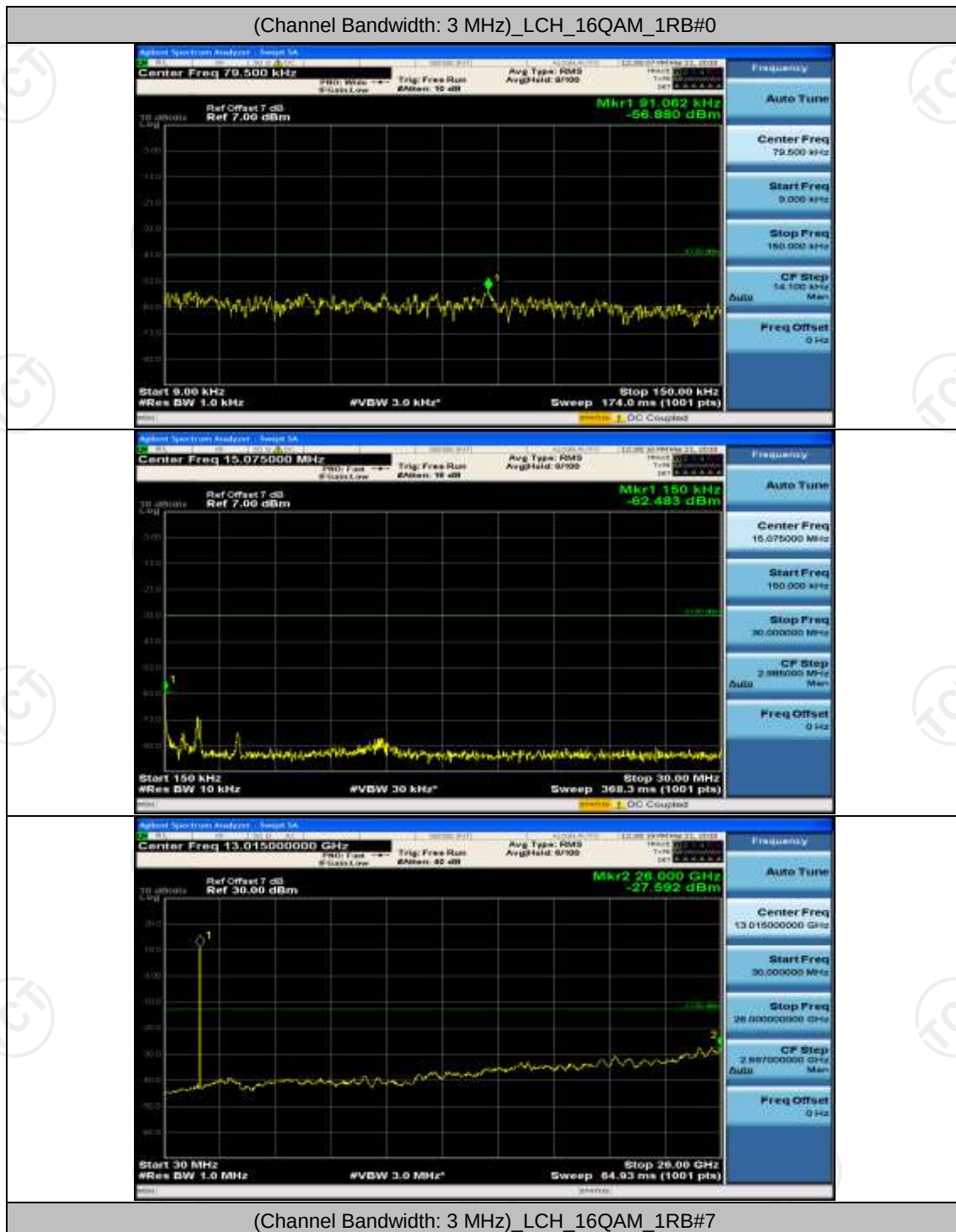


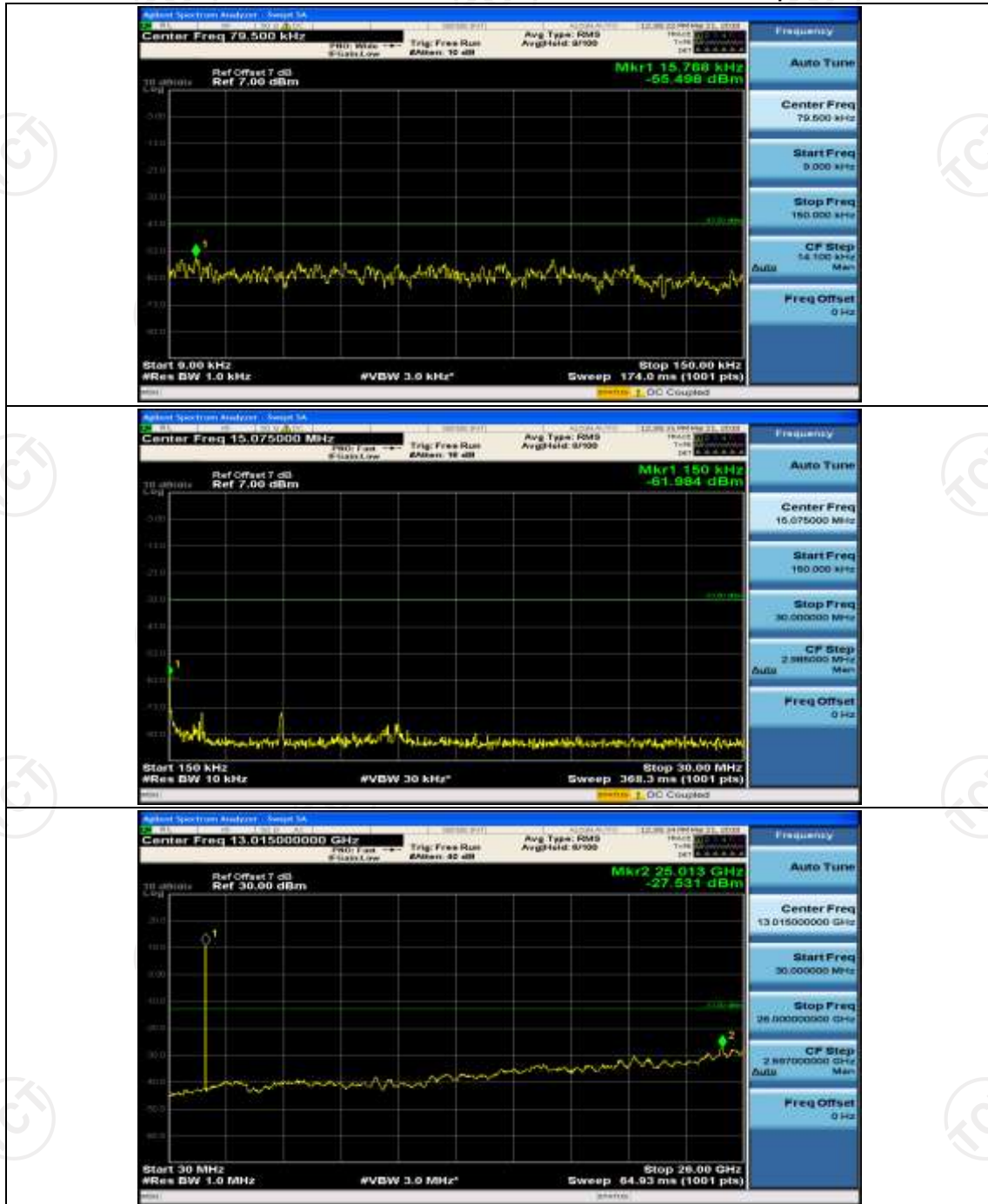








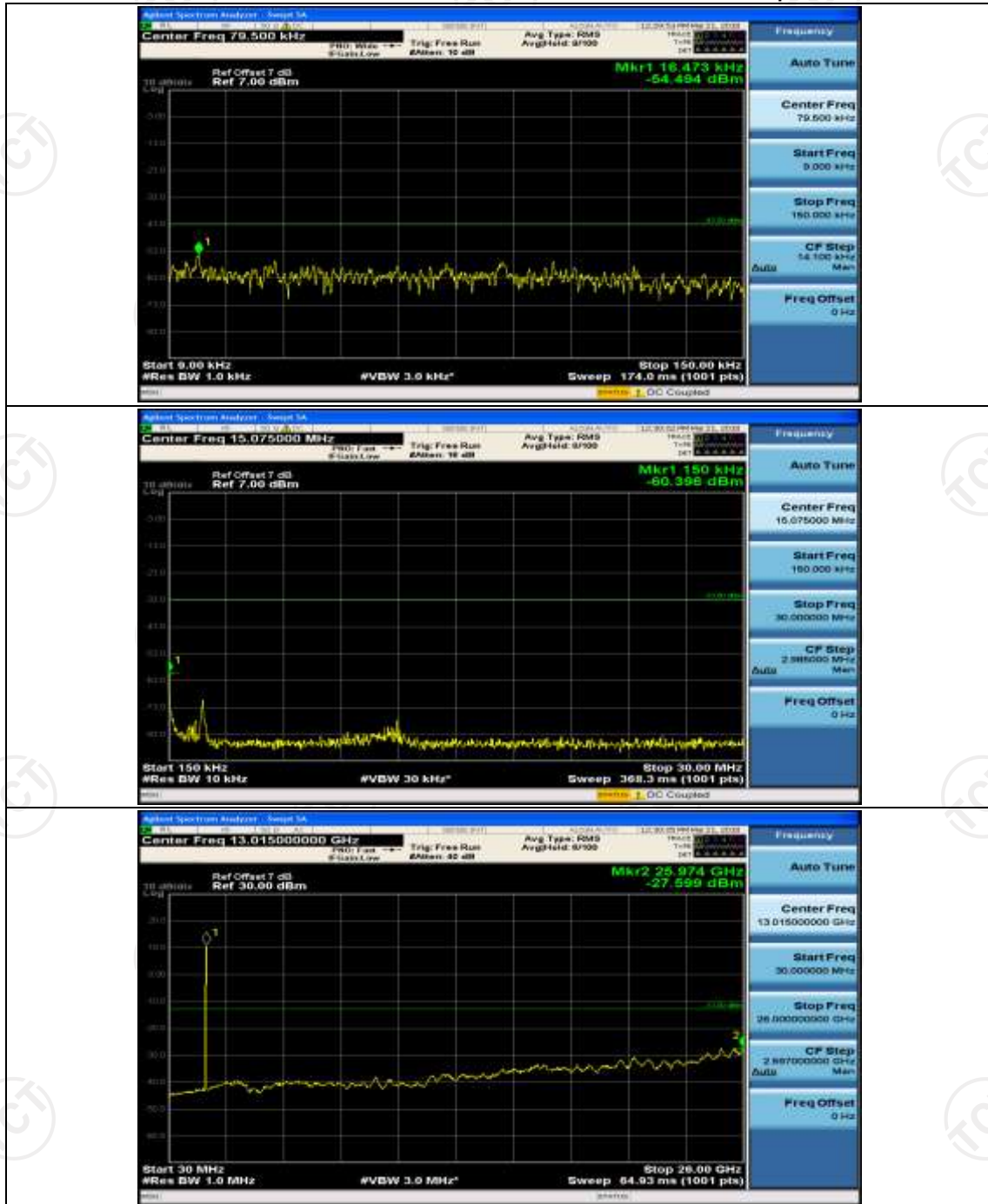


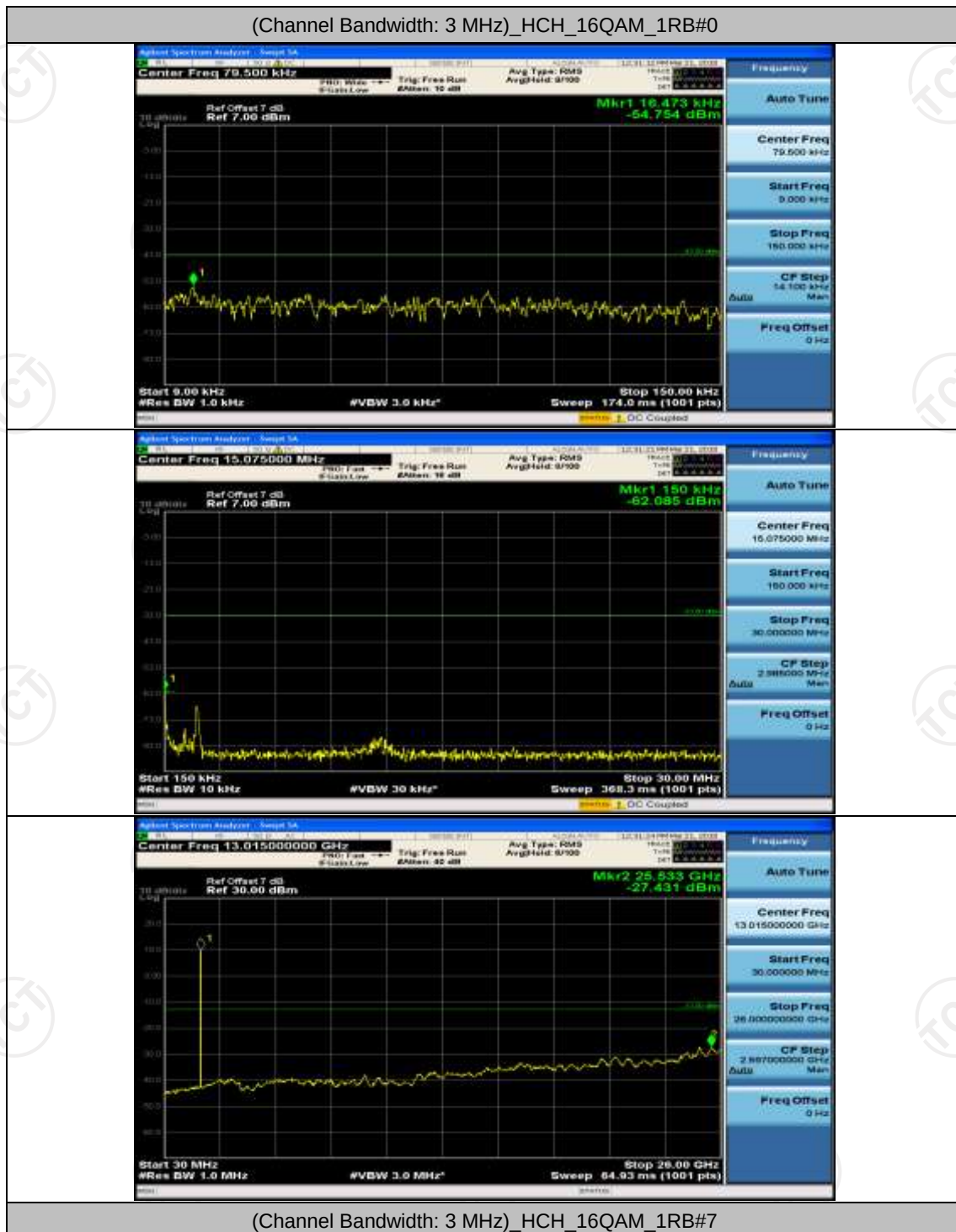


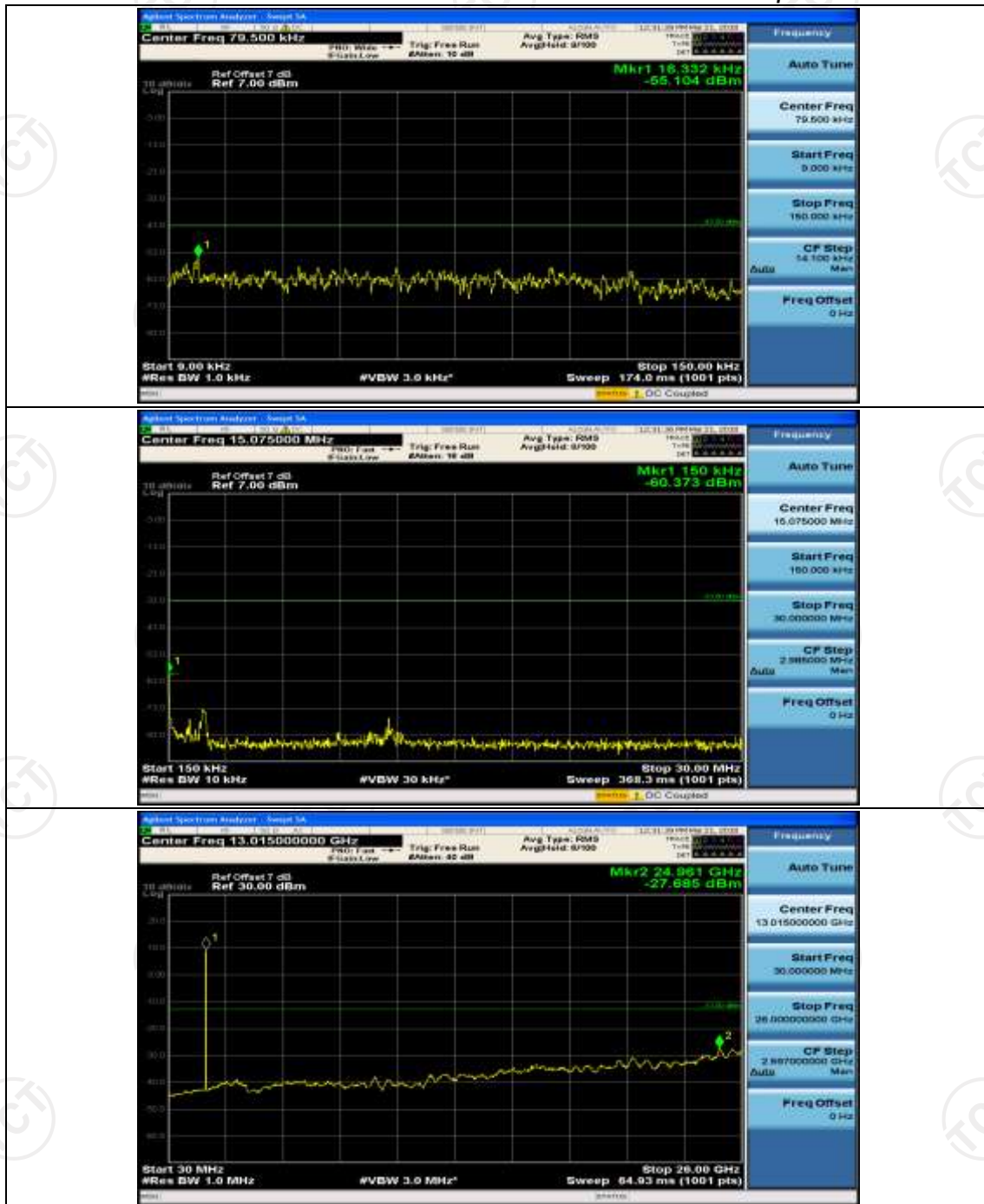
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

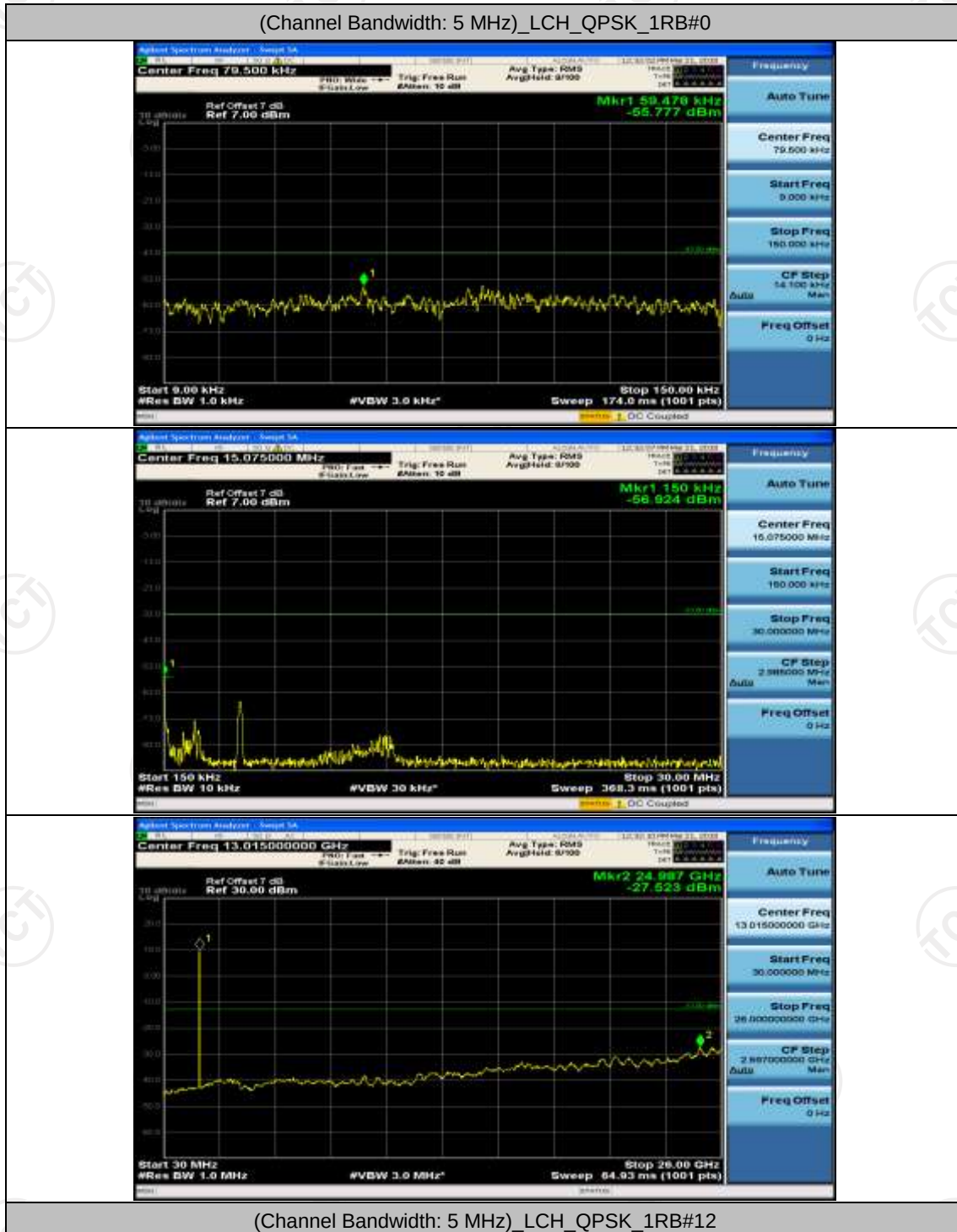


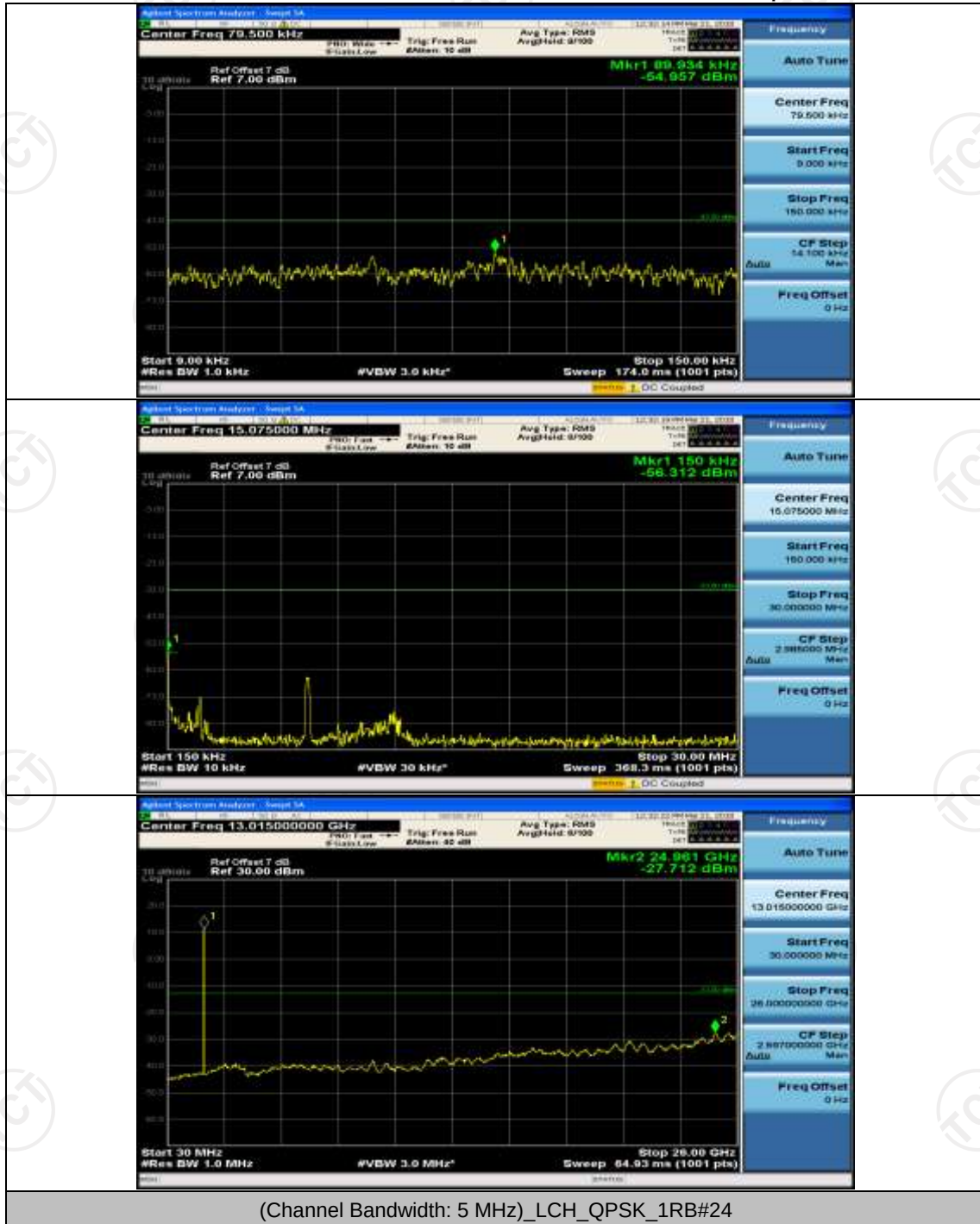


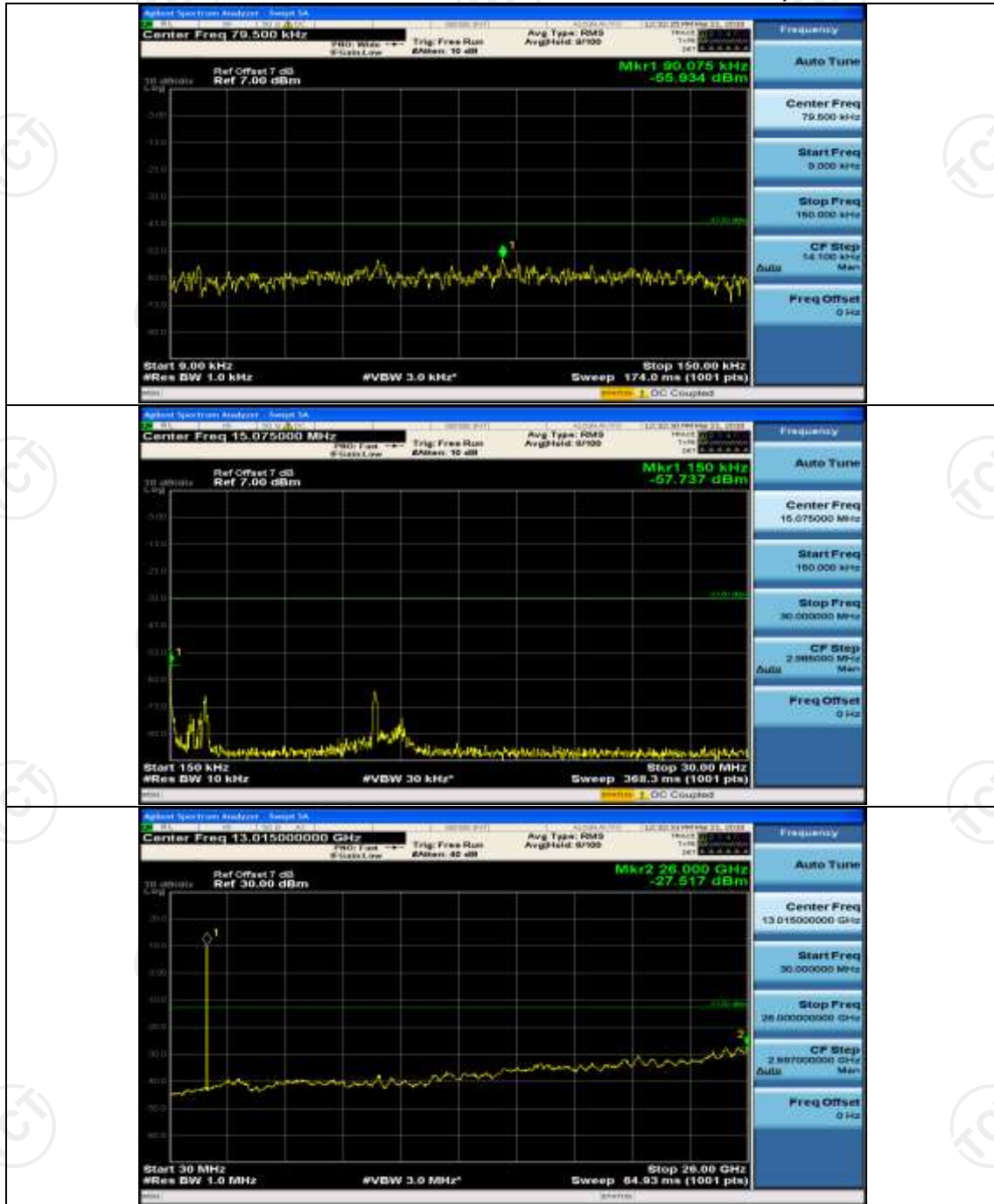


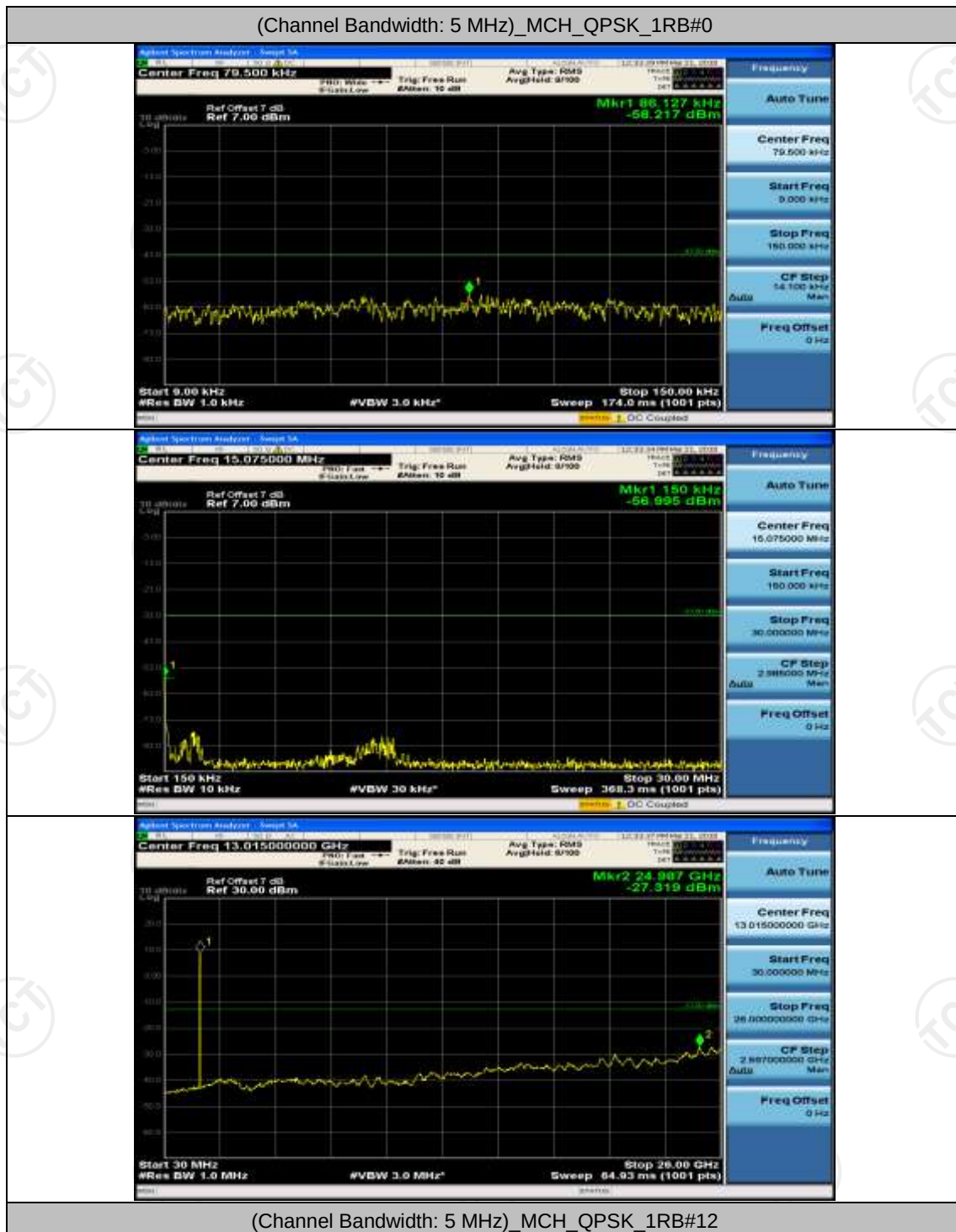
Channel Bandwidth: 5 MHz

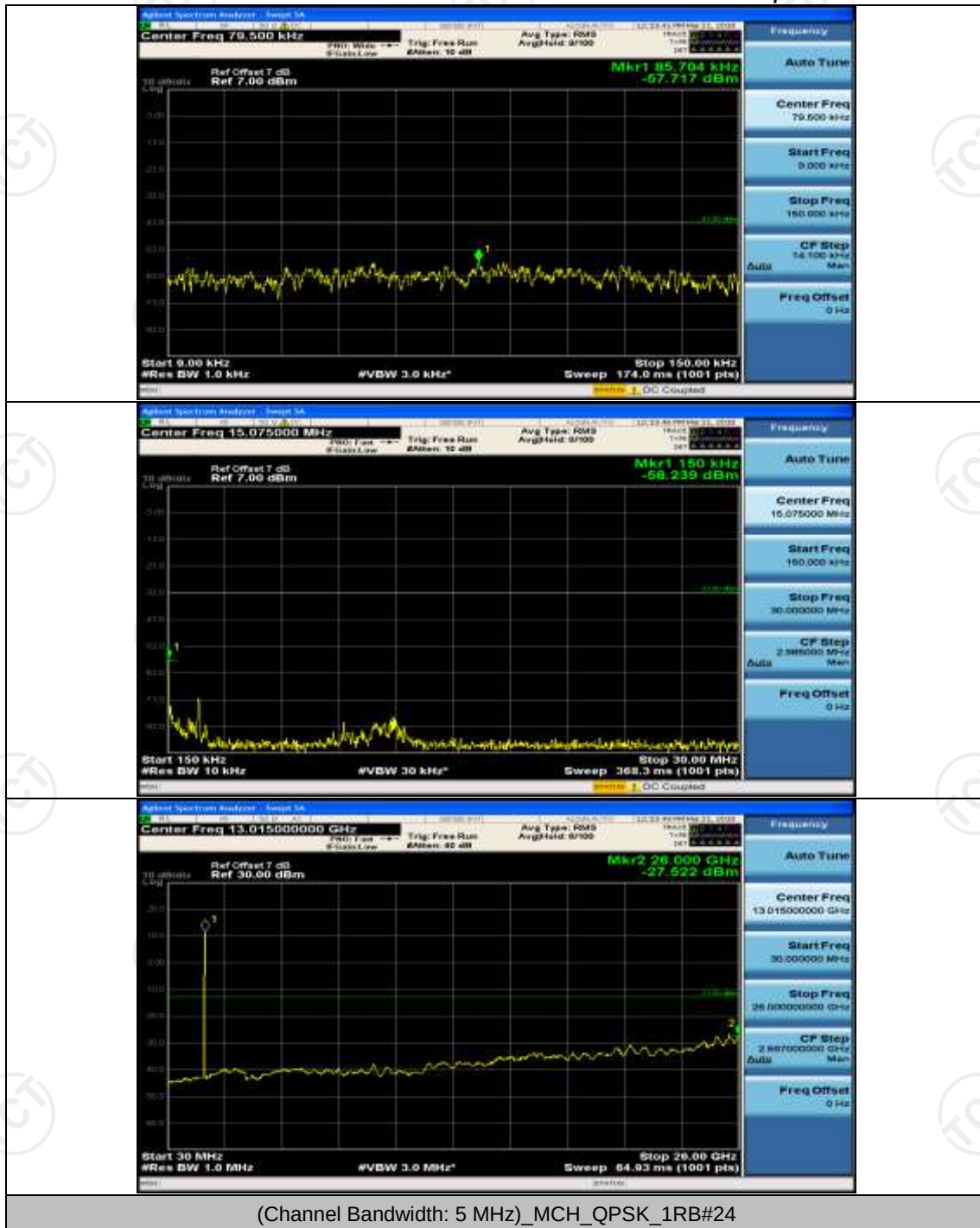
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

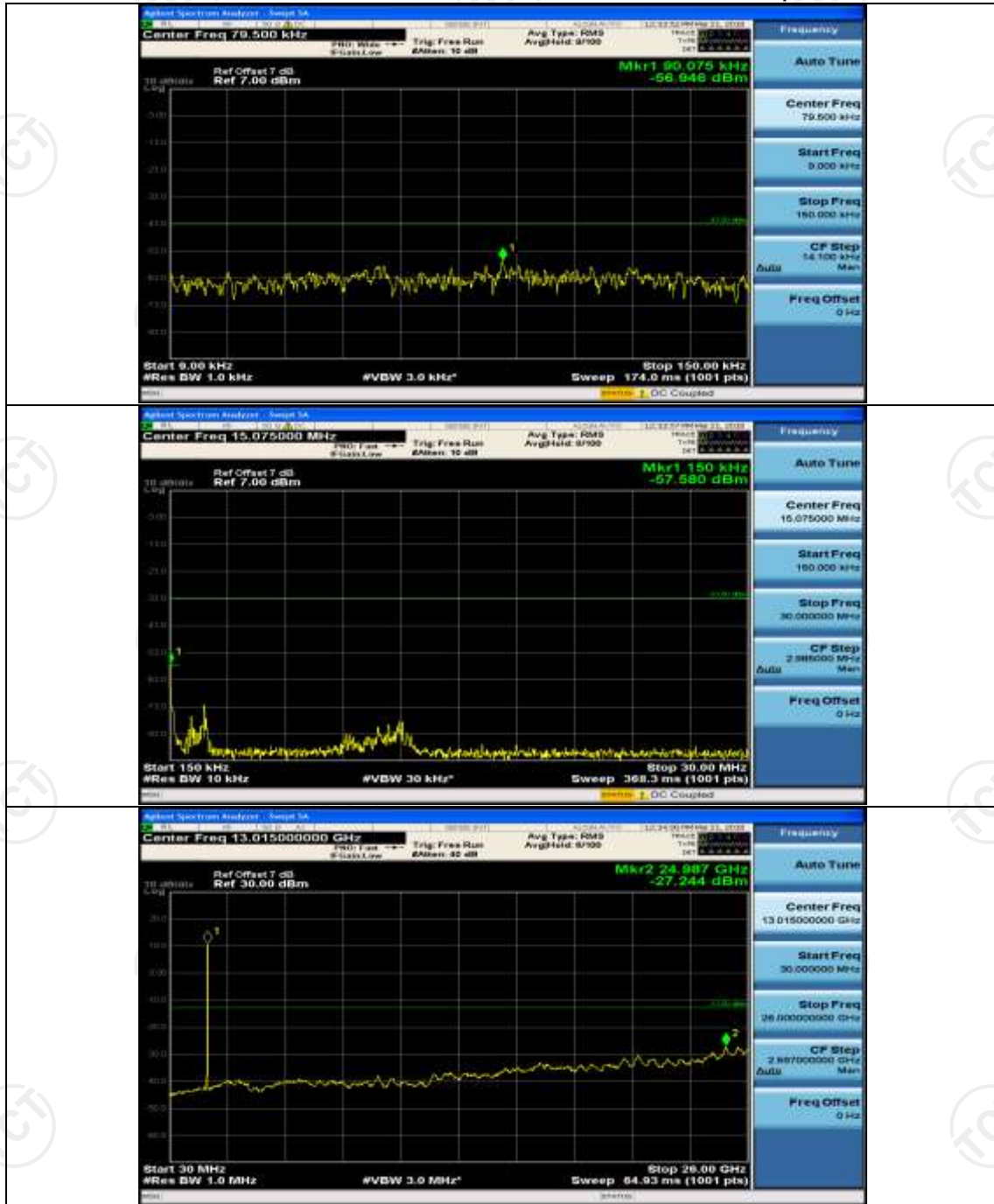


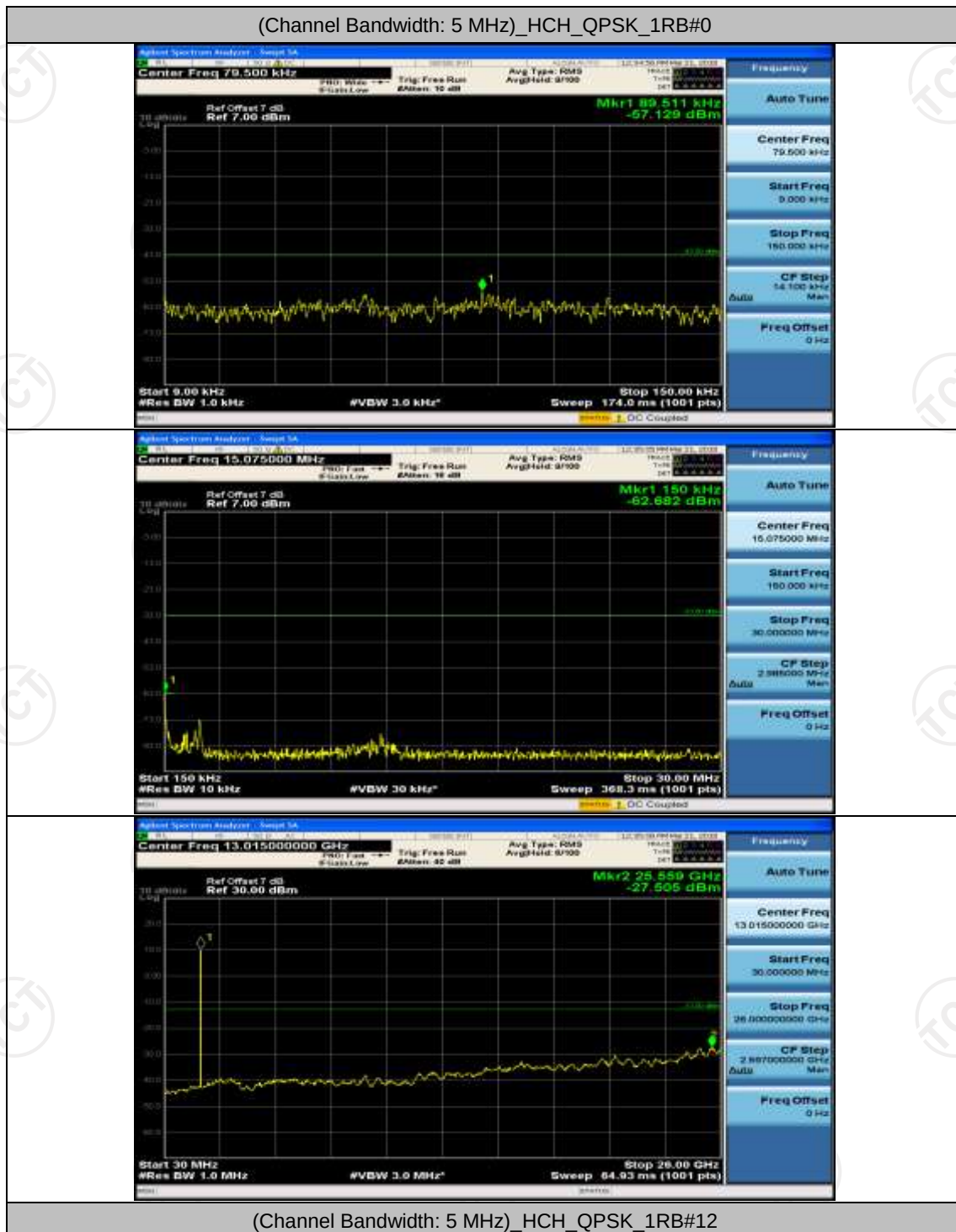


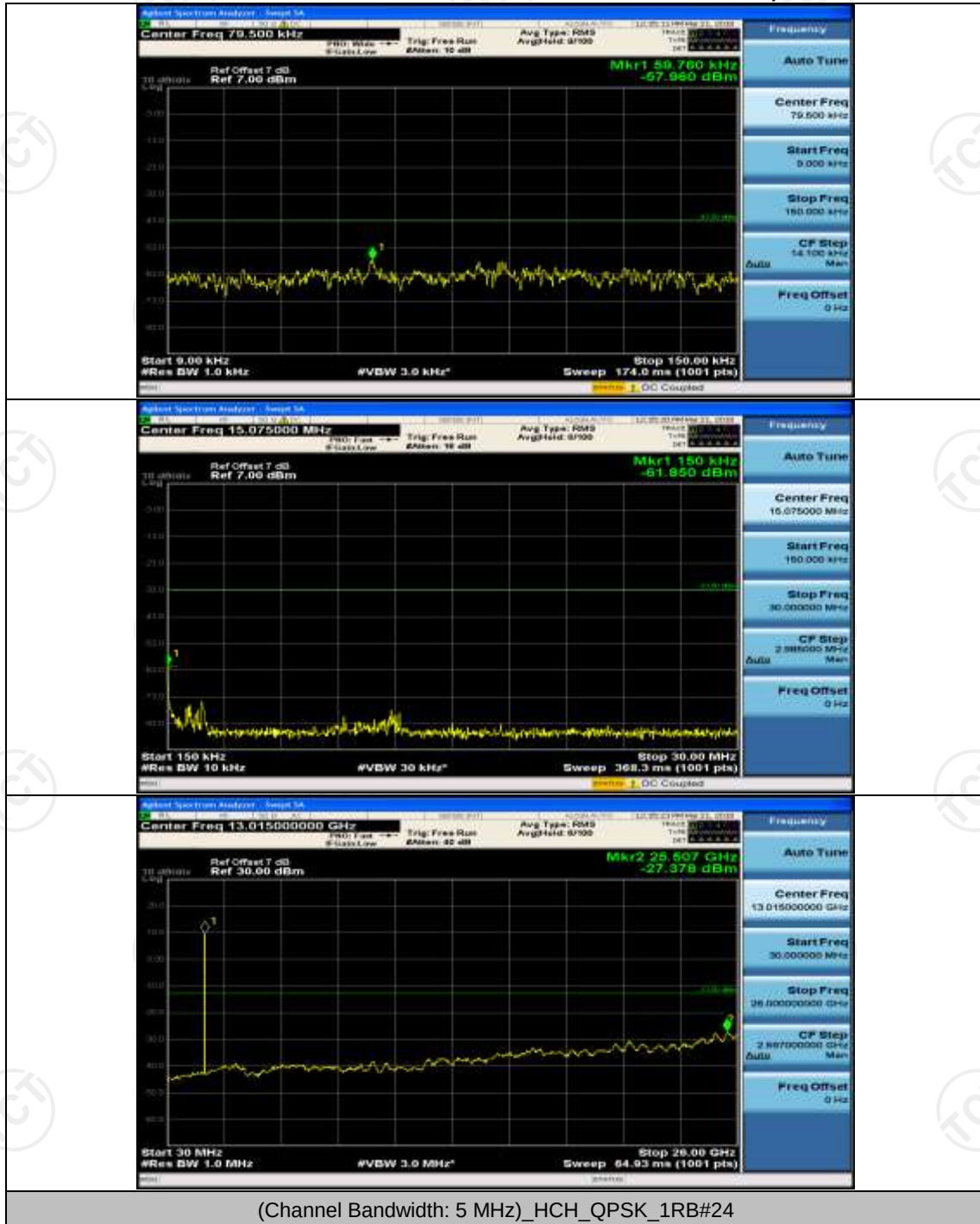


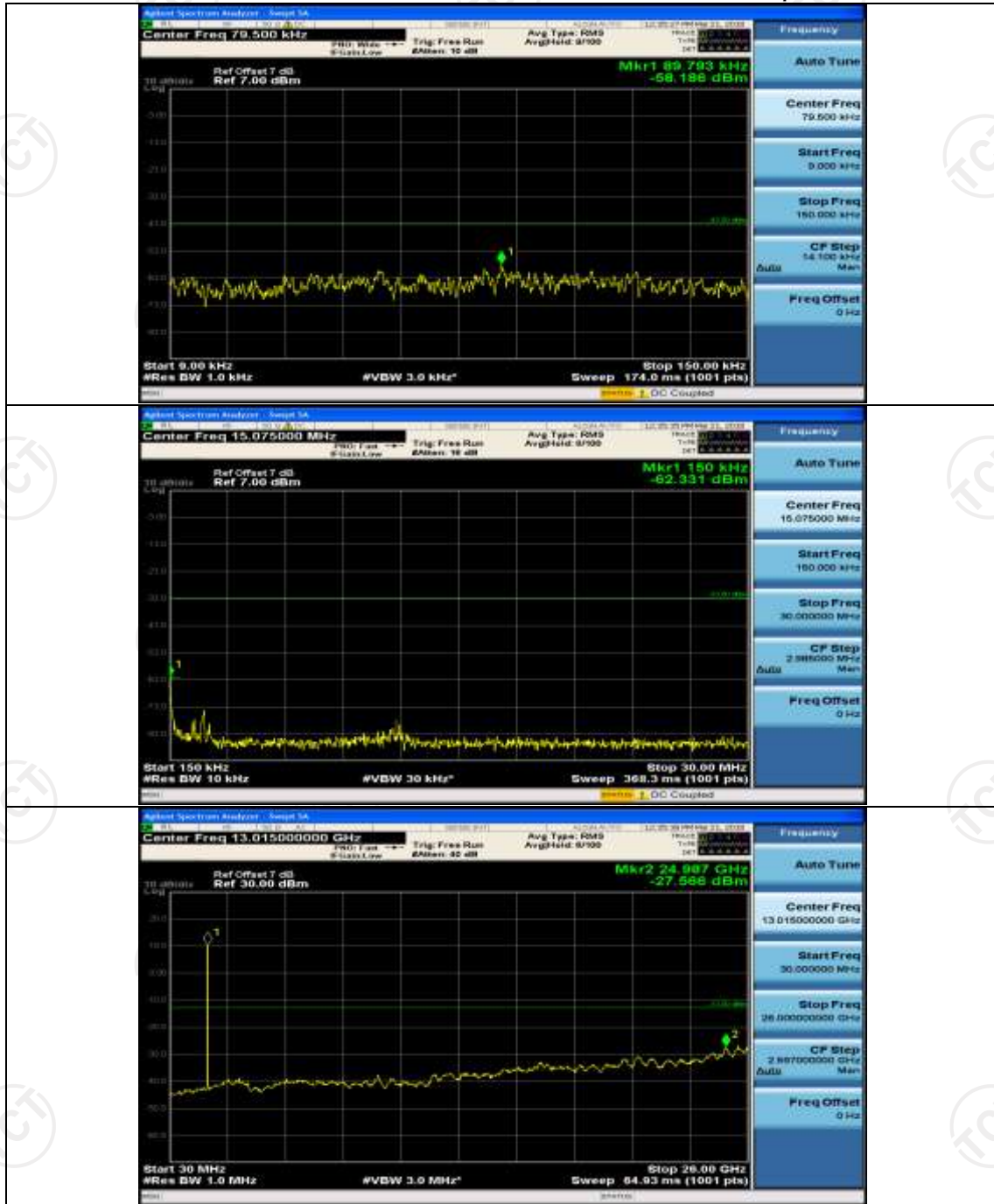


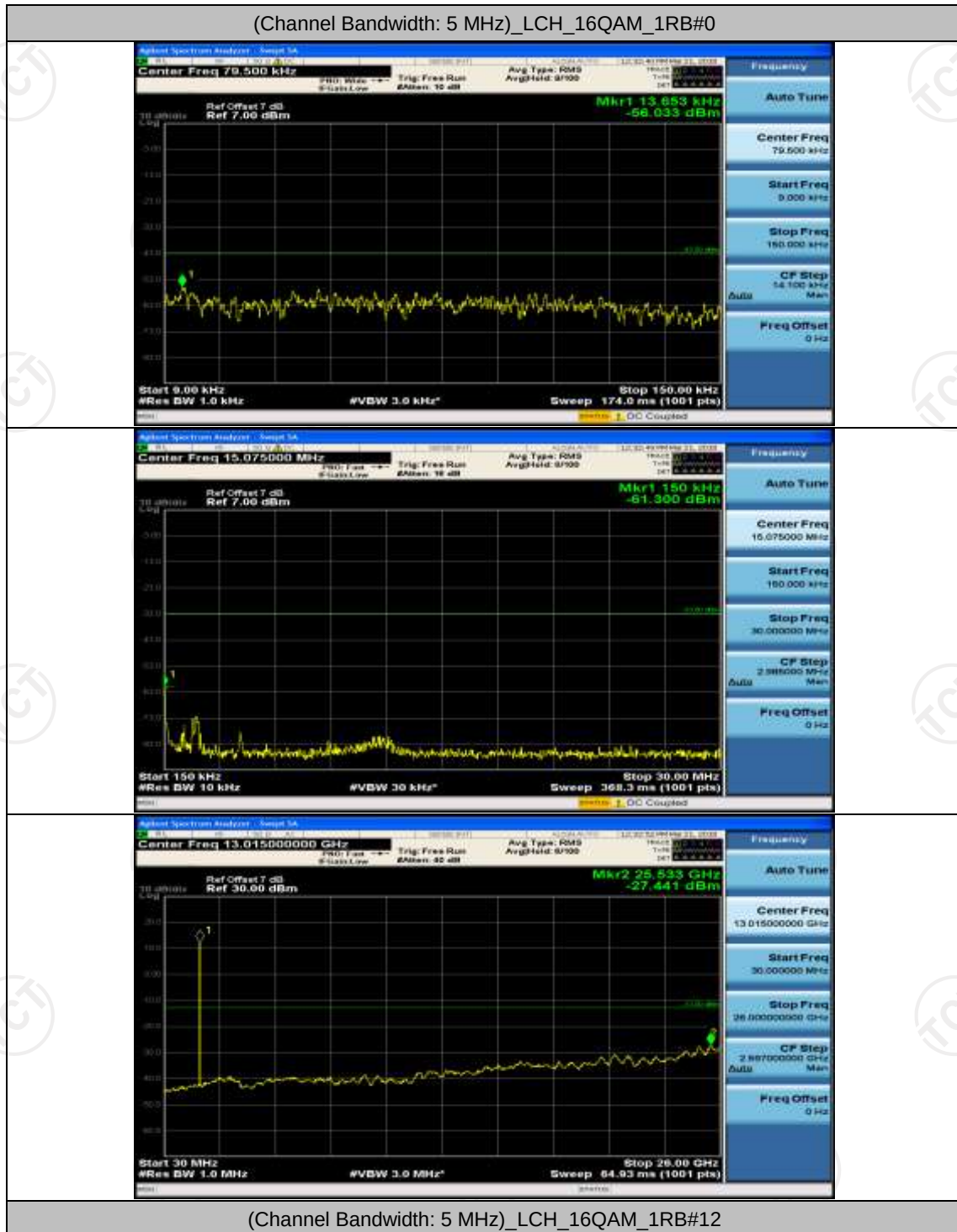


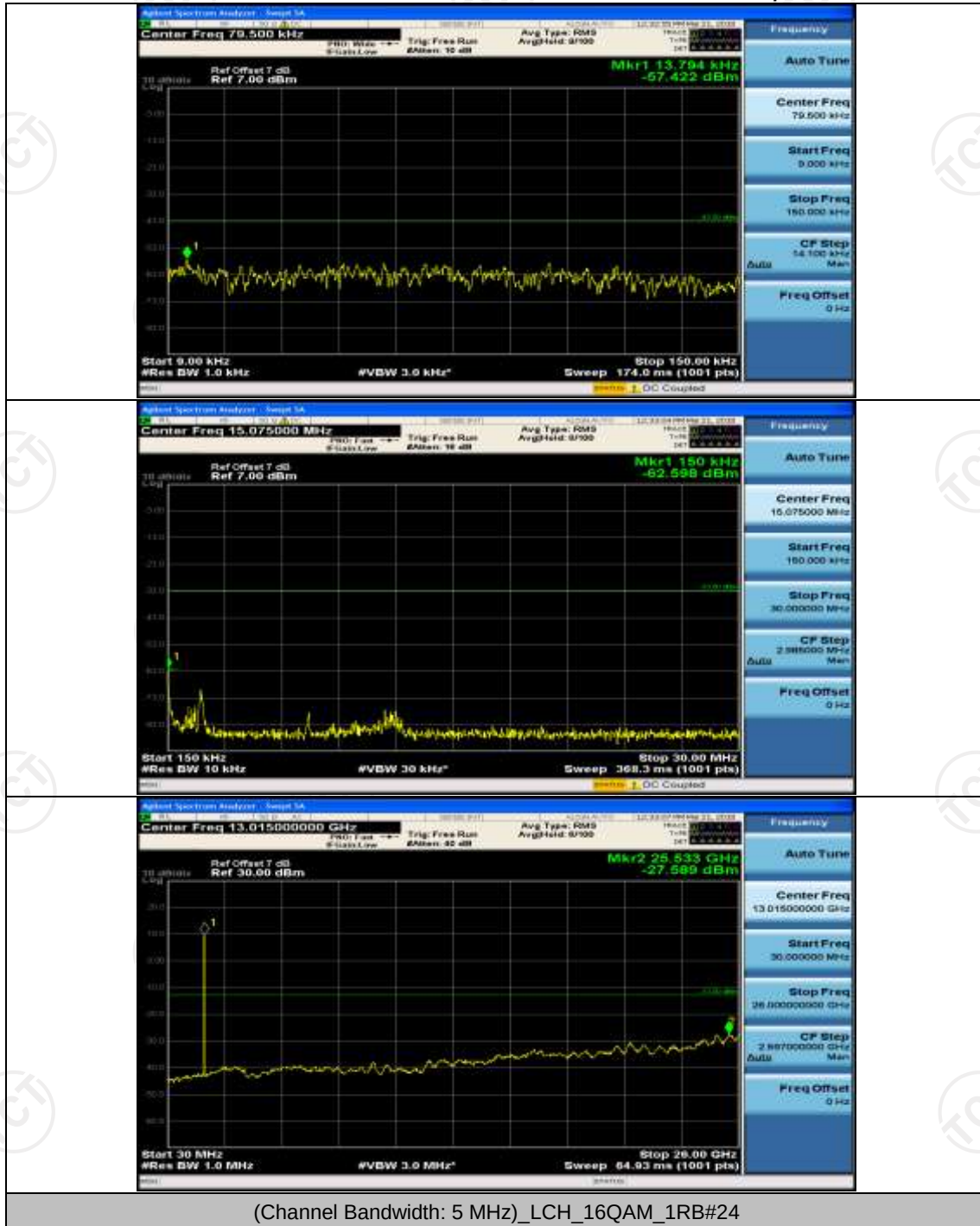


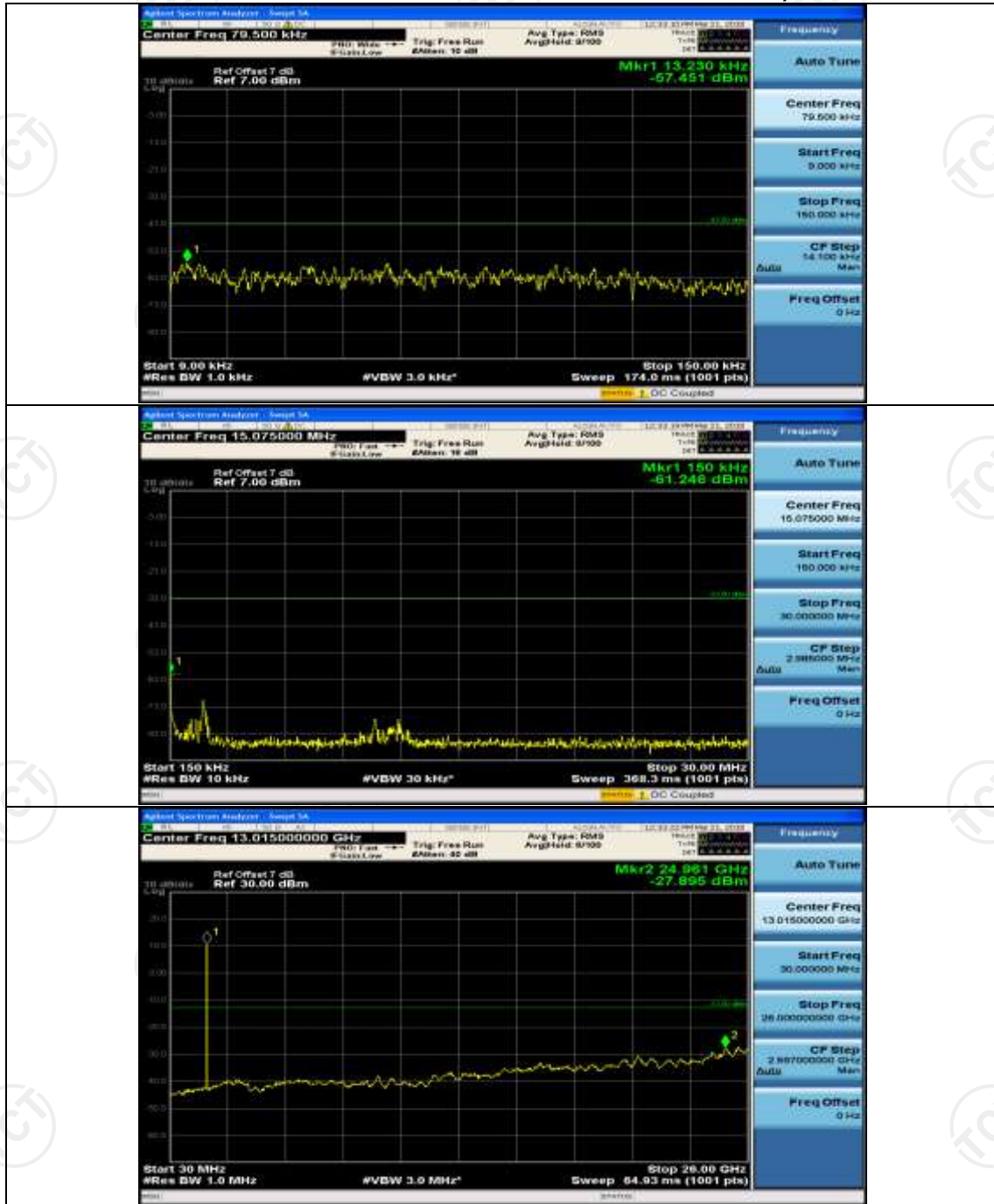


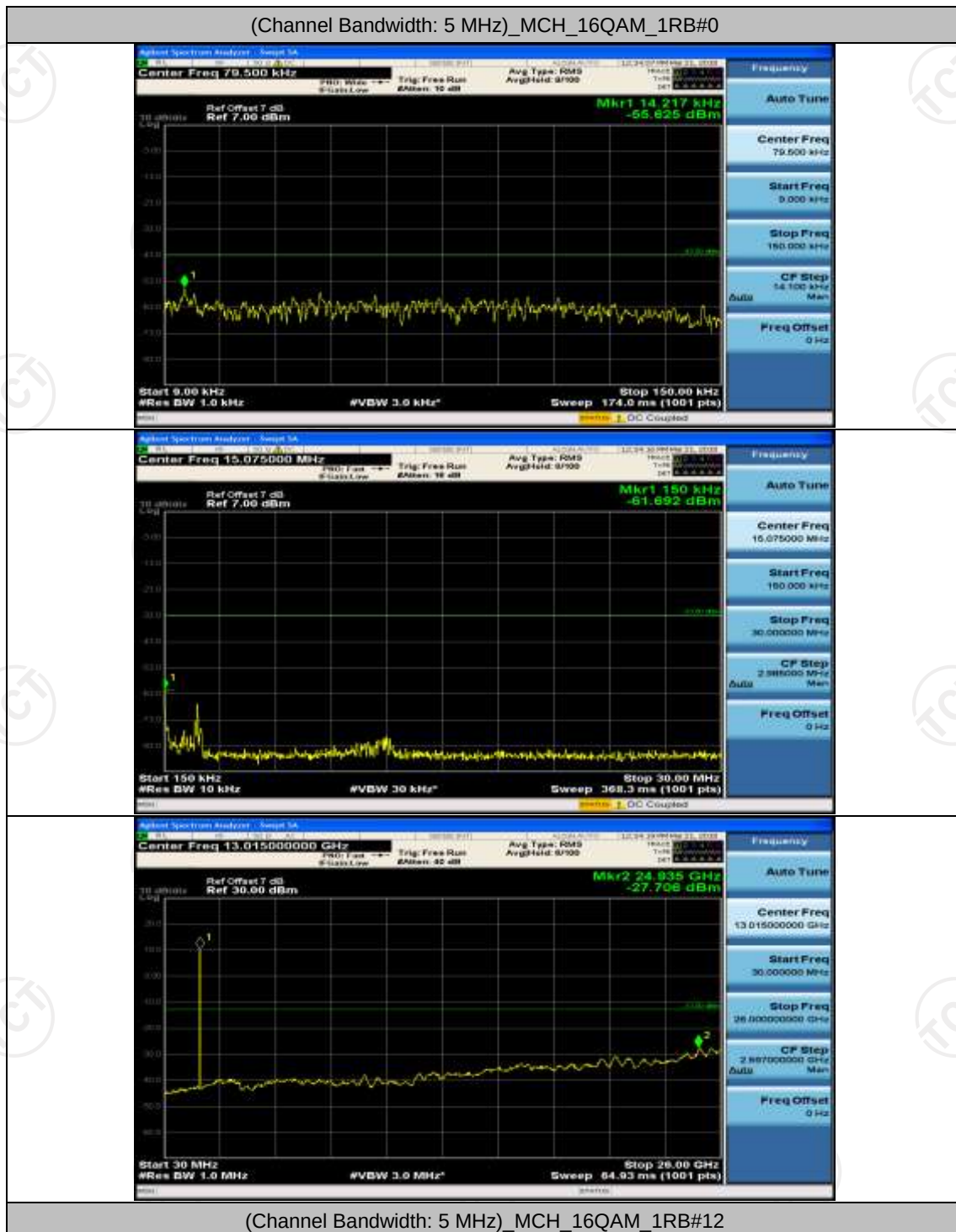


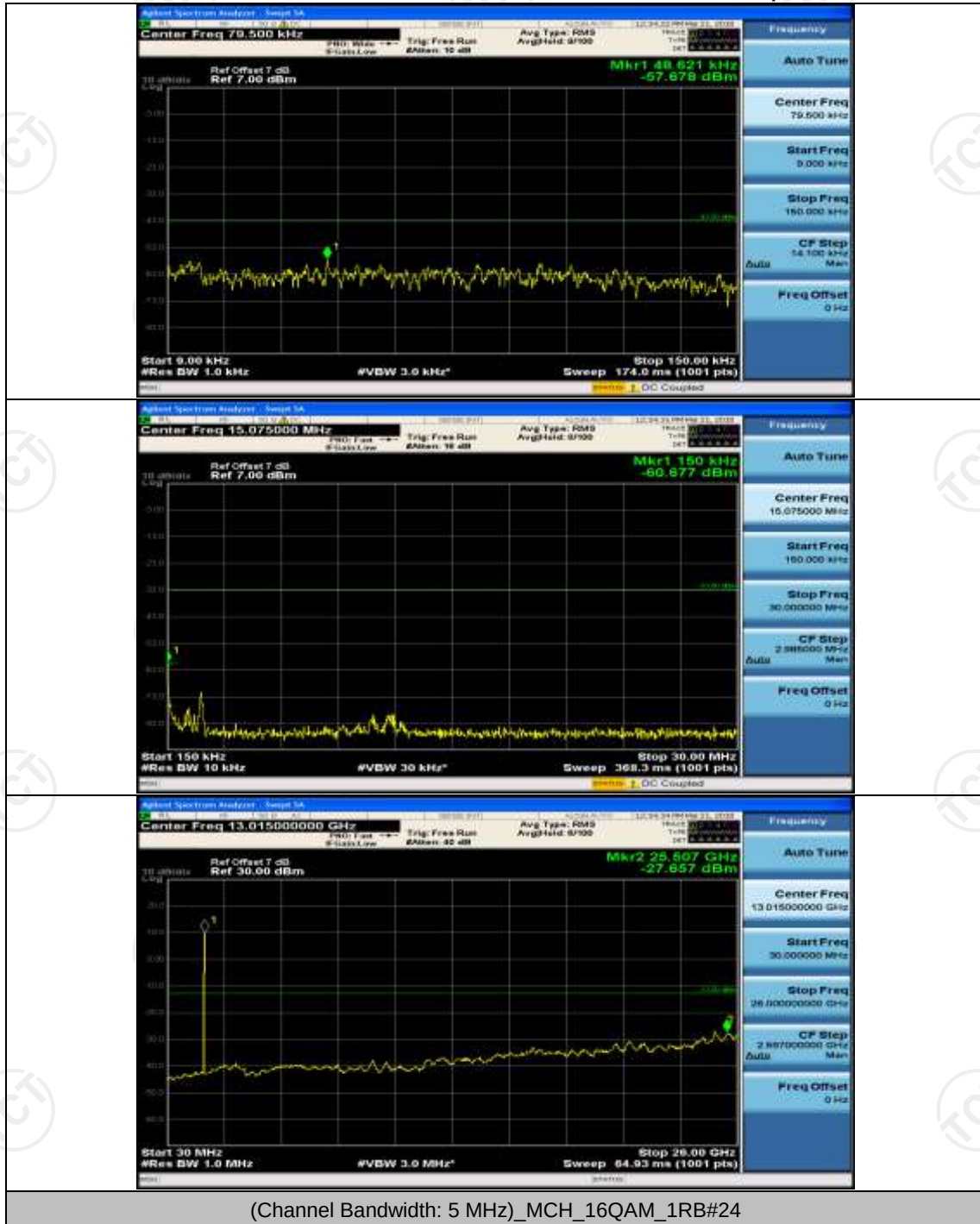


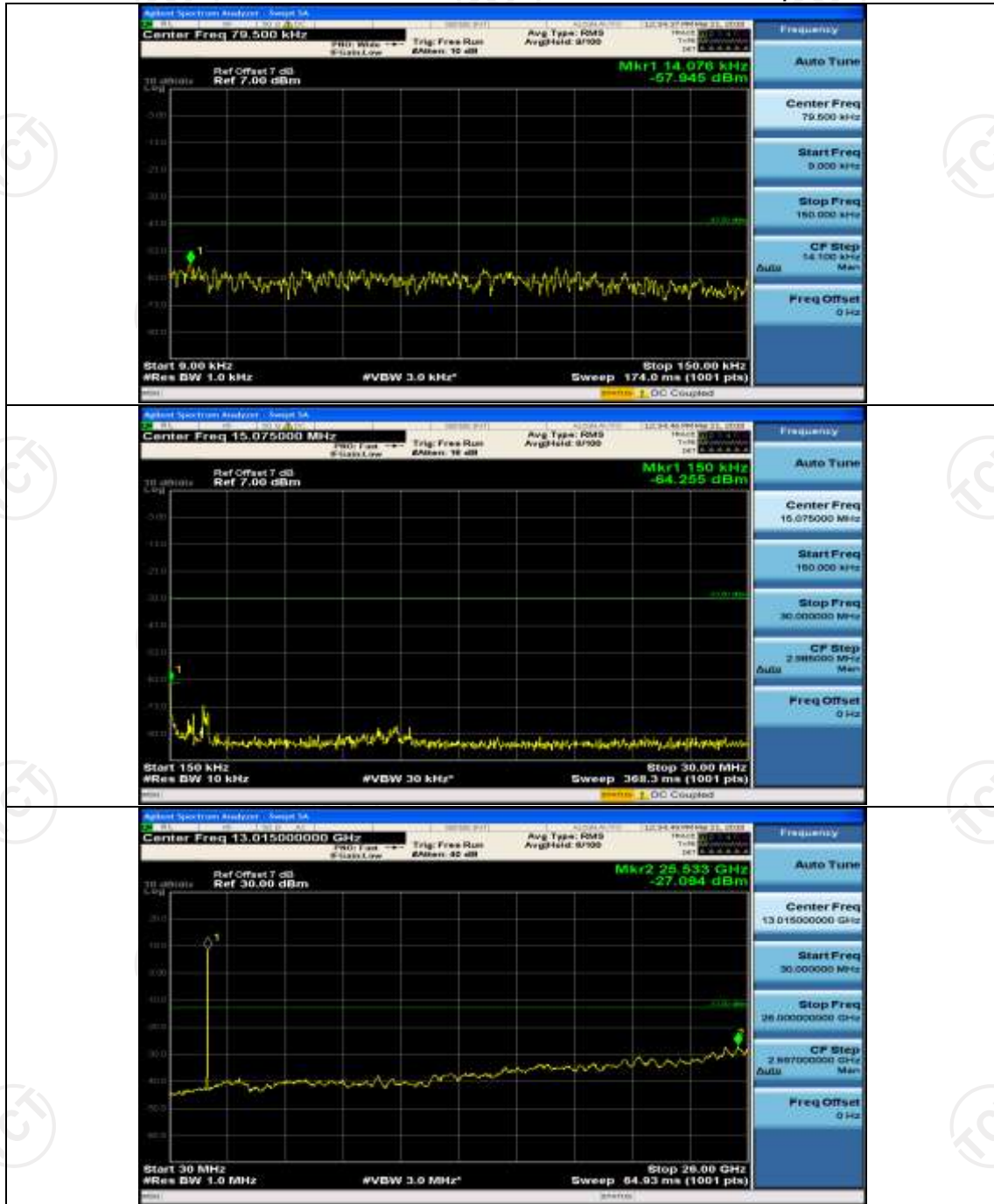


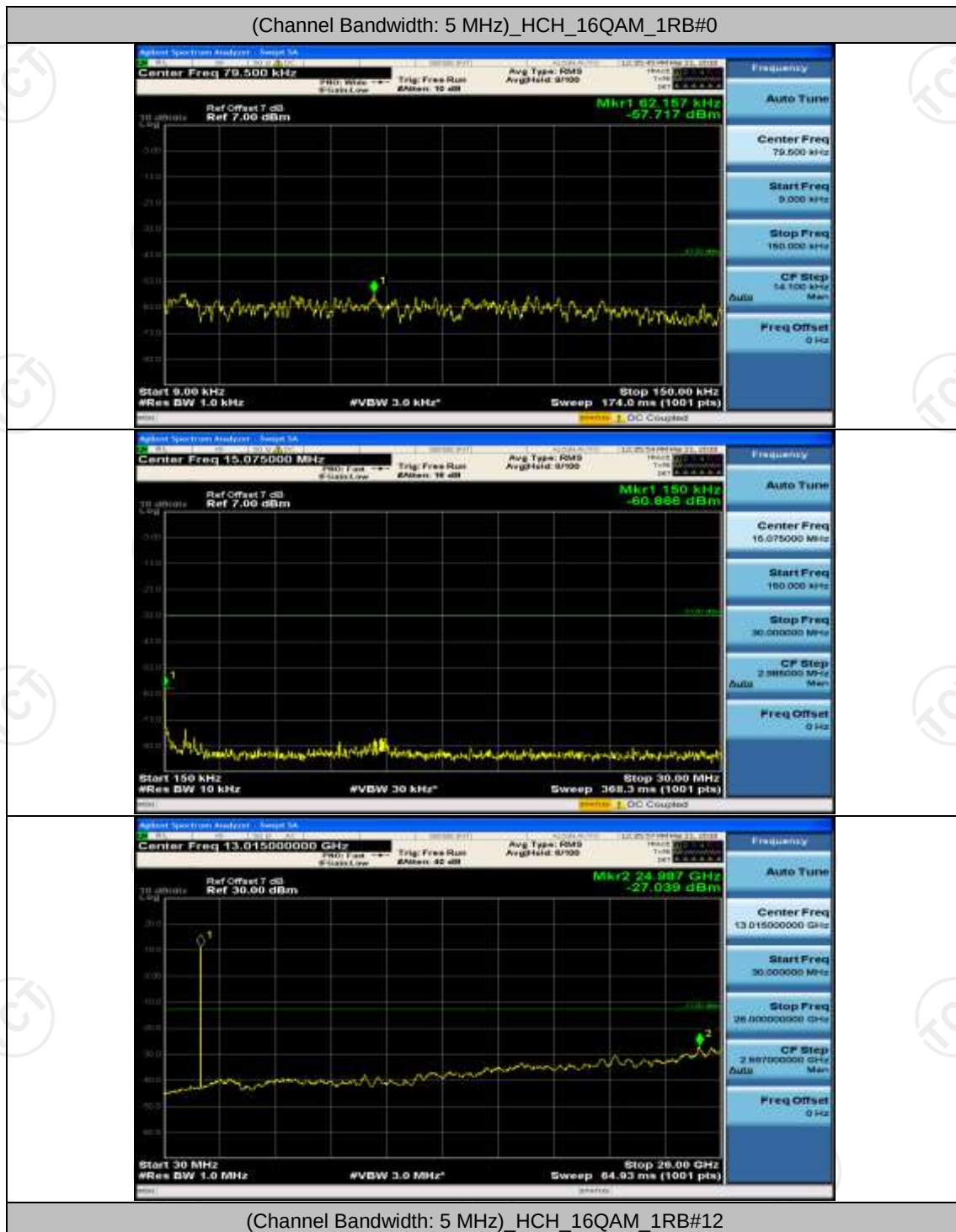


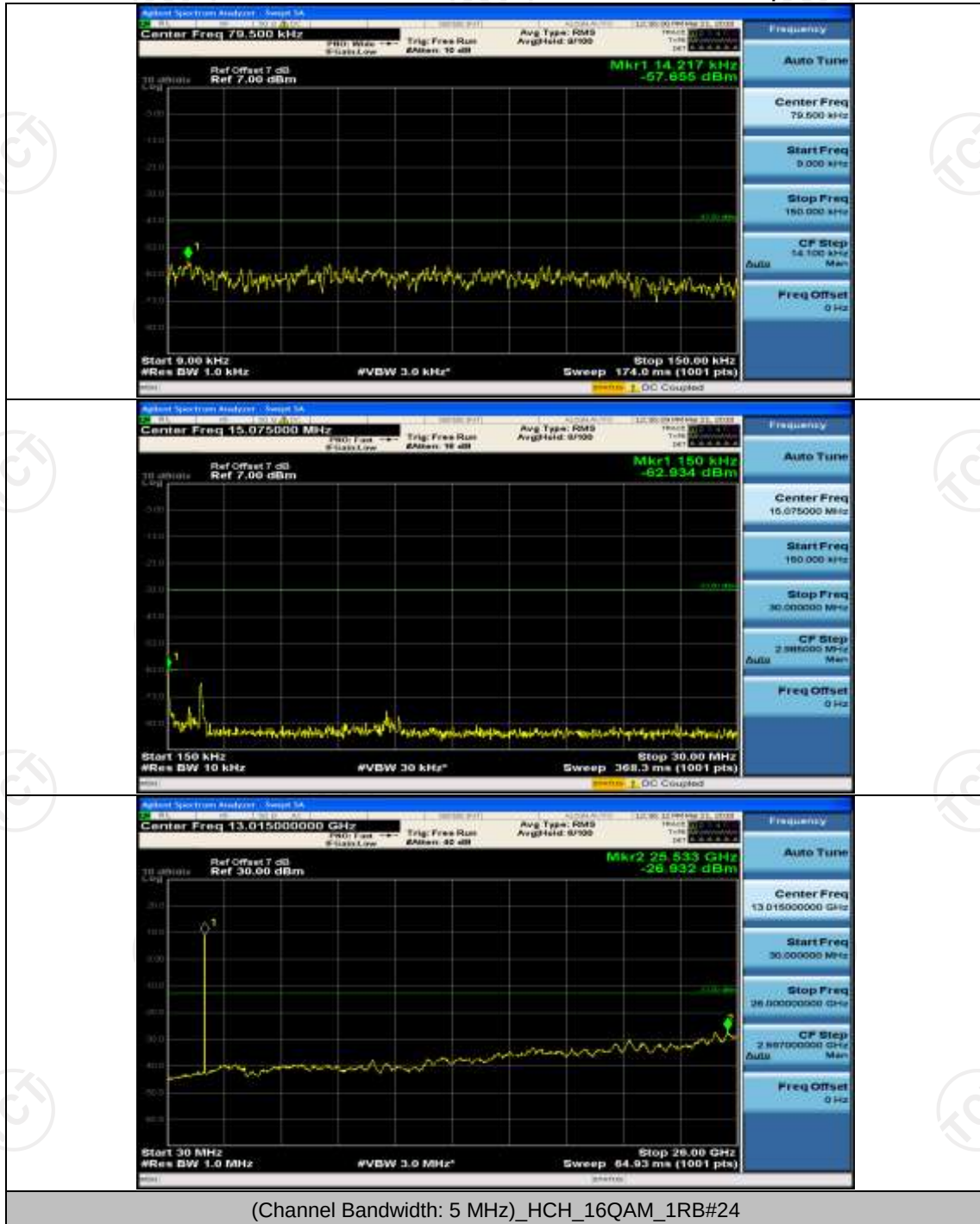


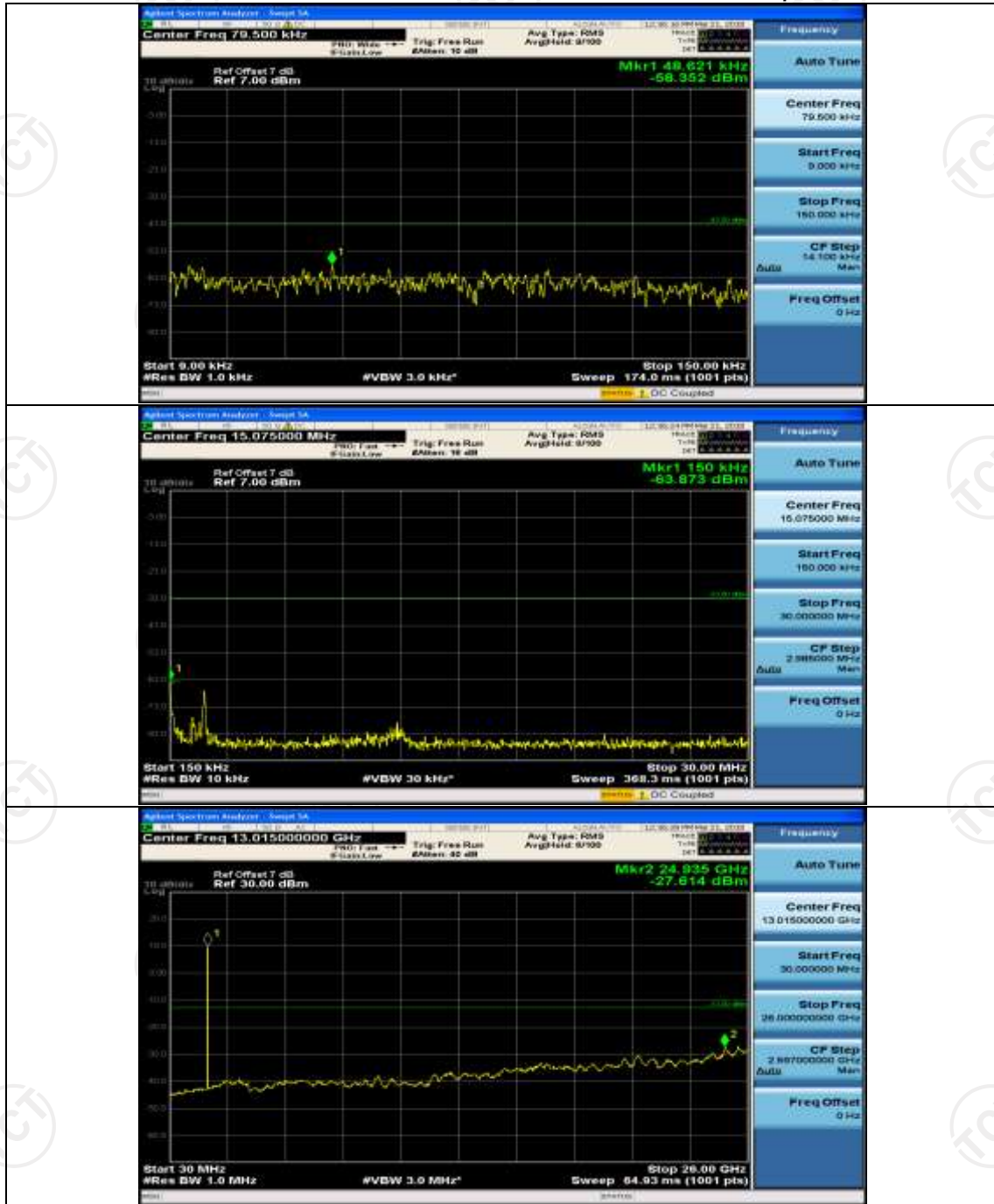




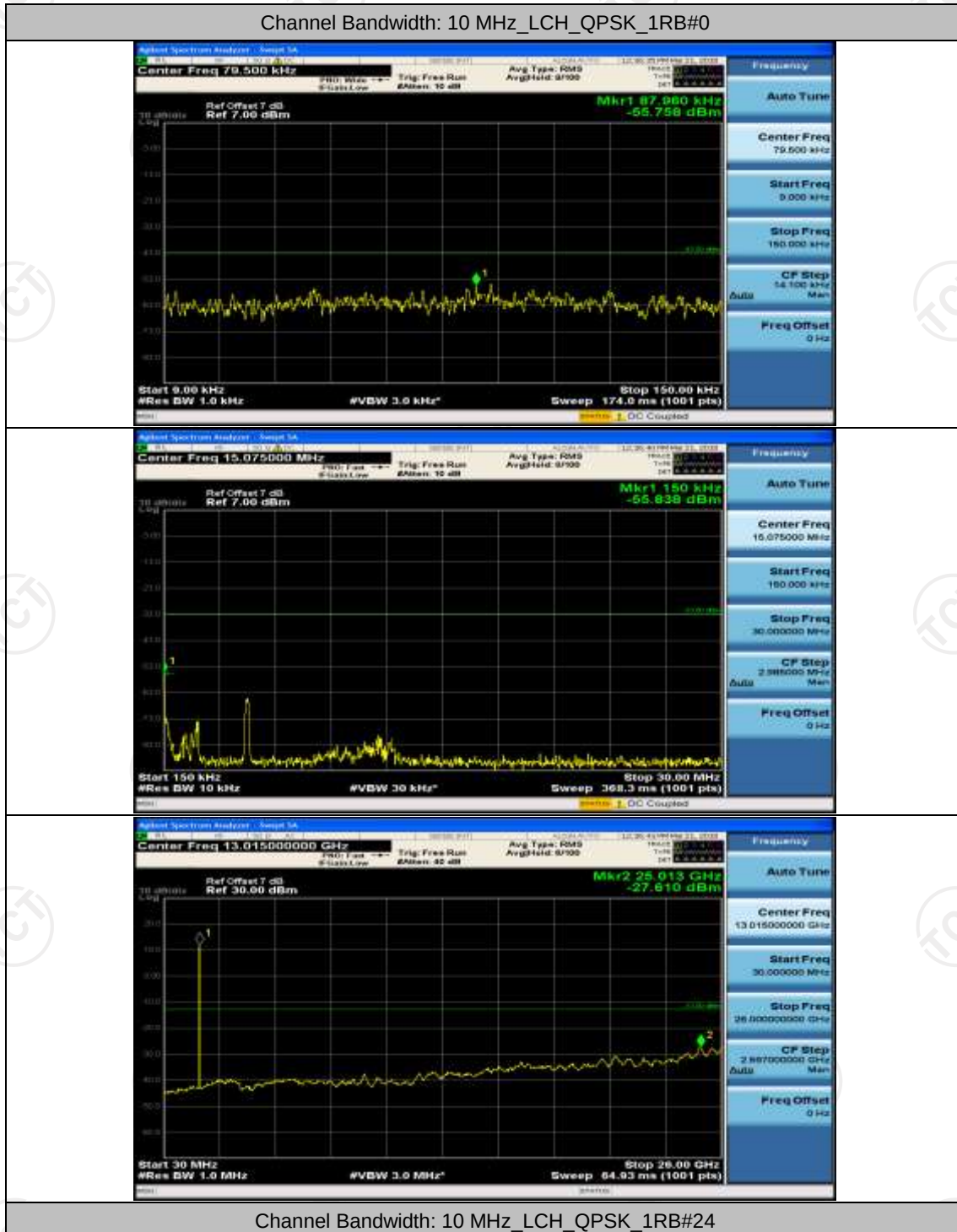


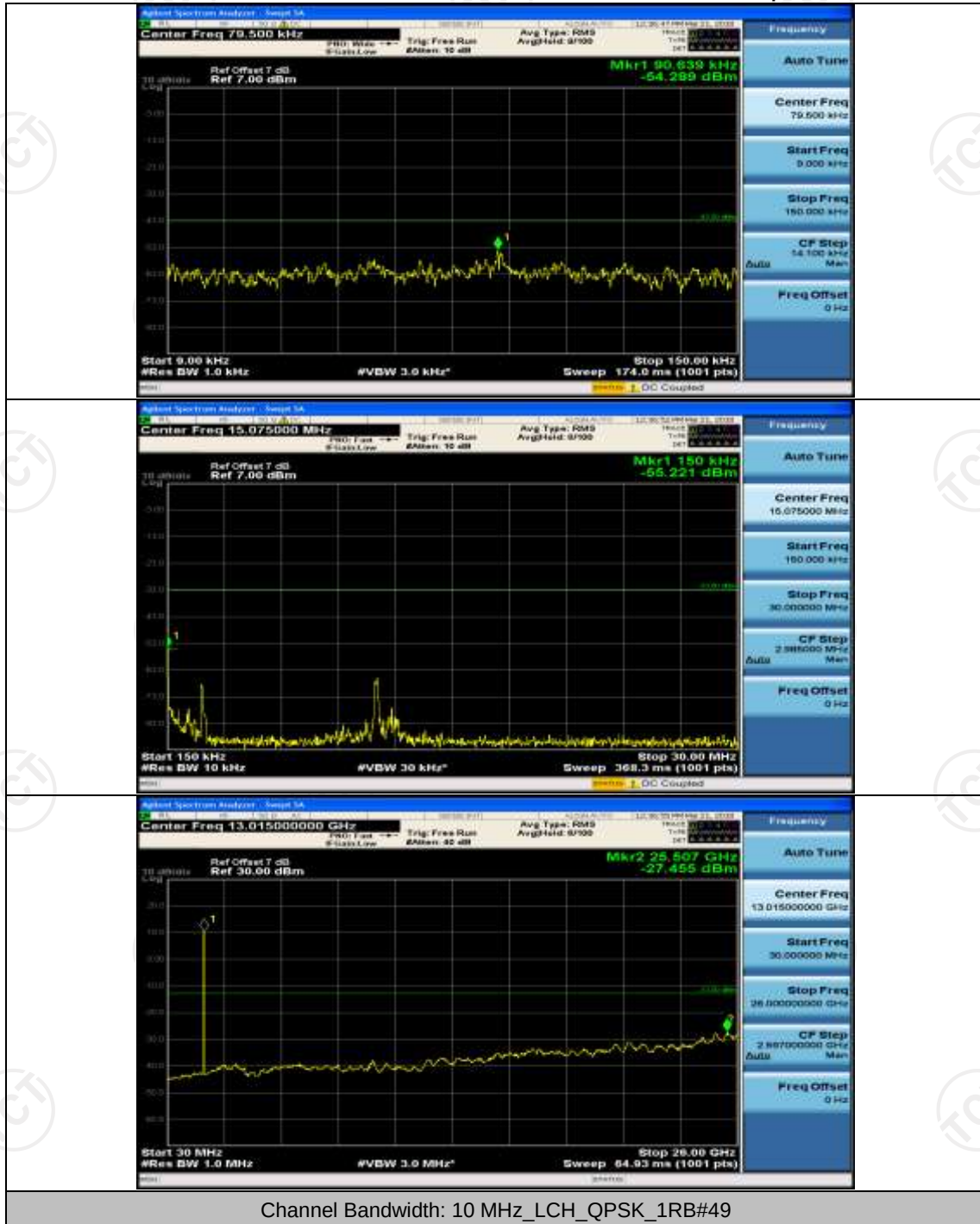


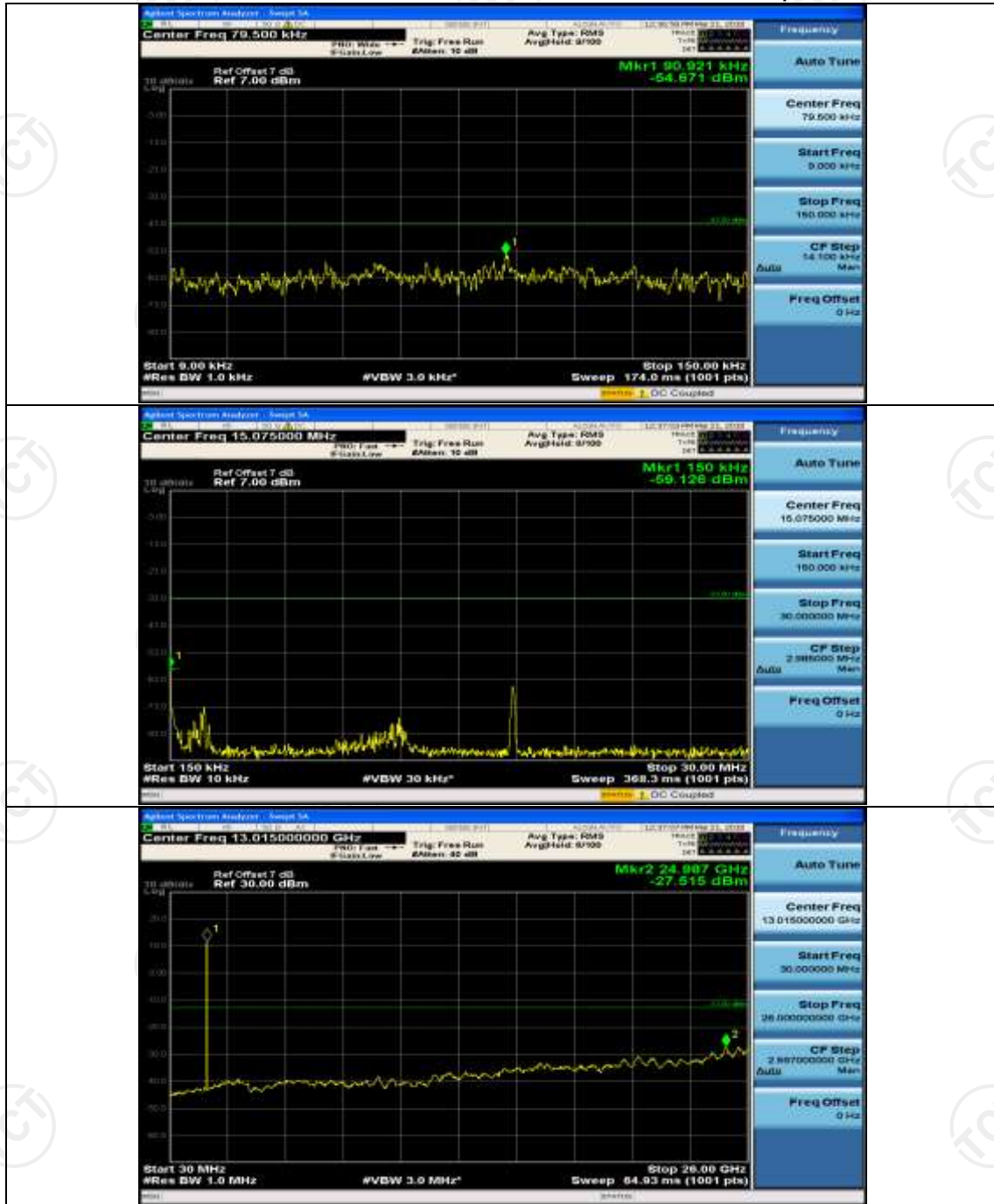


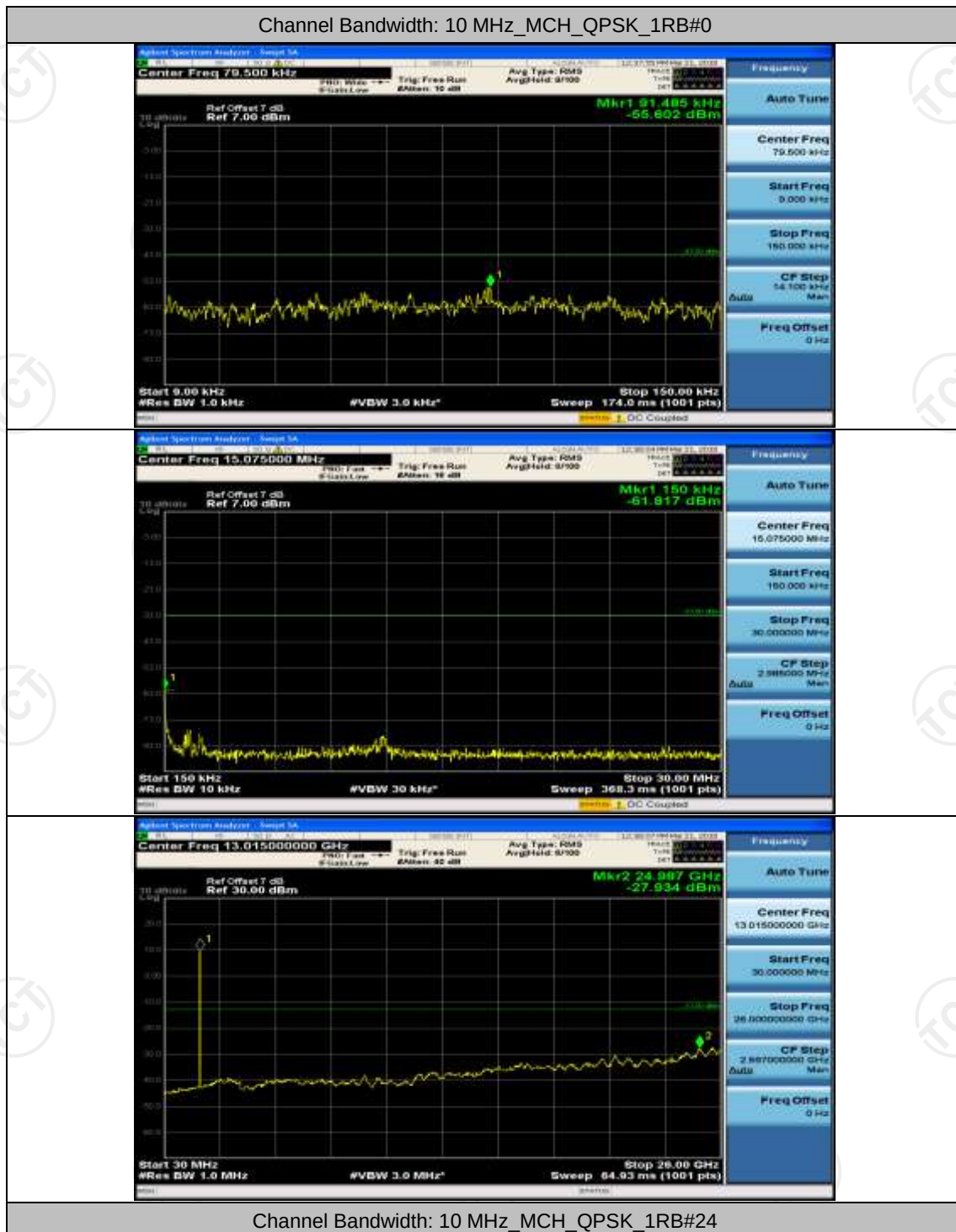


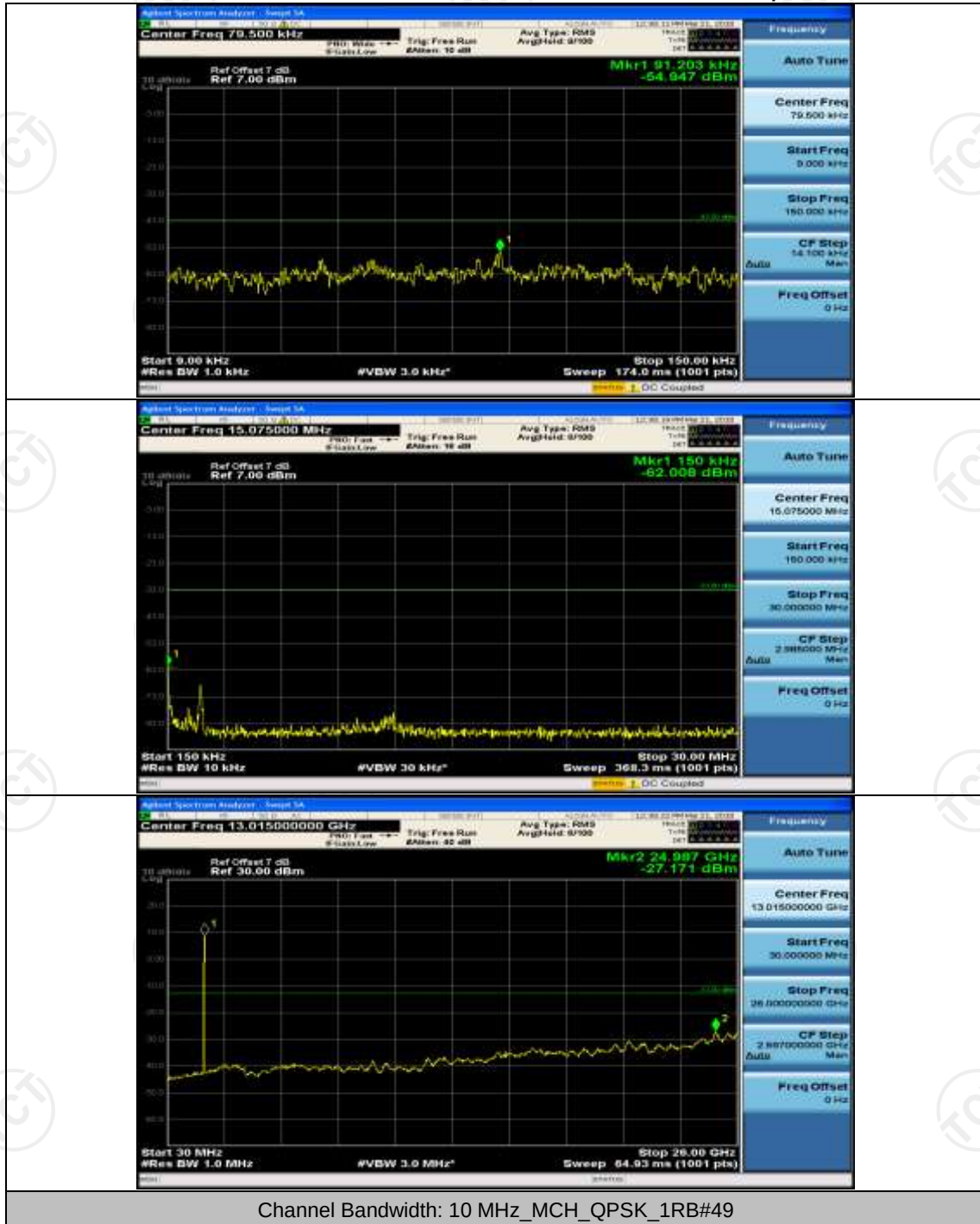
Channel Bandwidth: 10 MHz

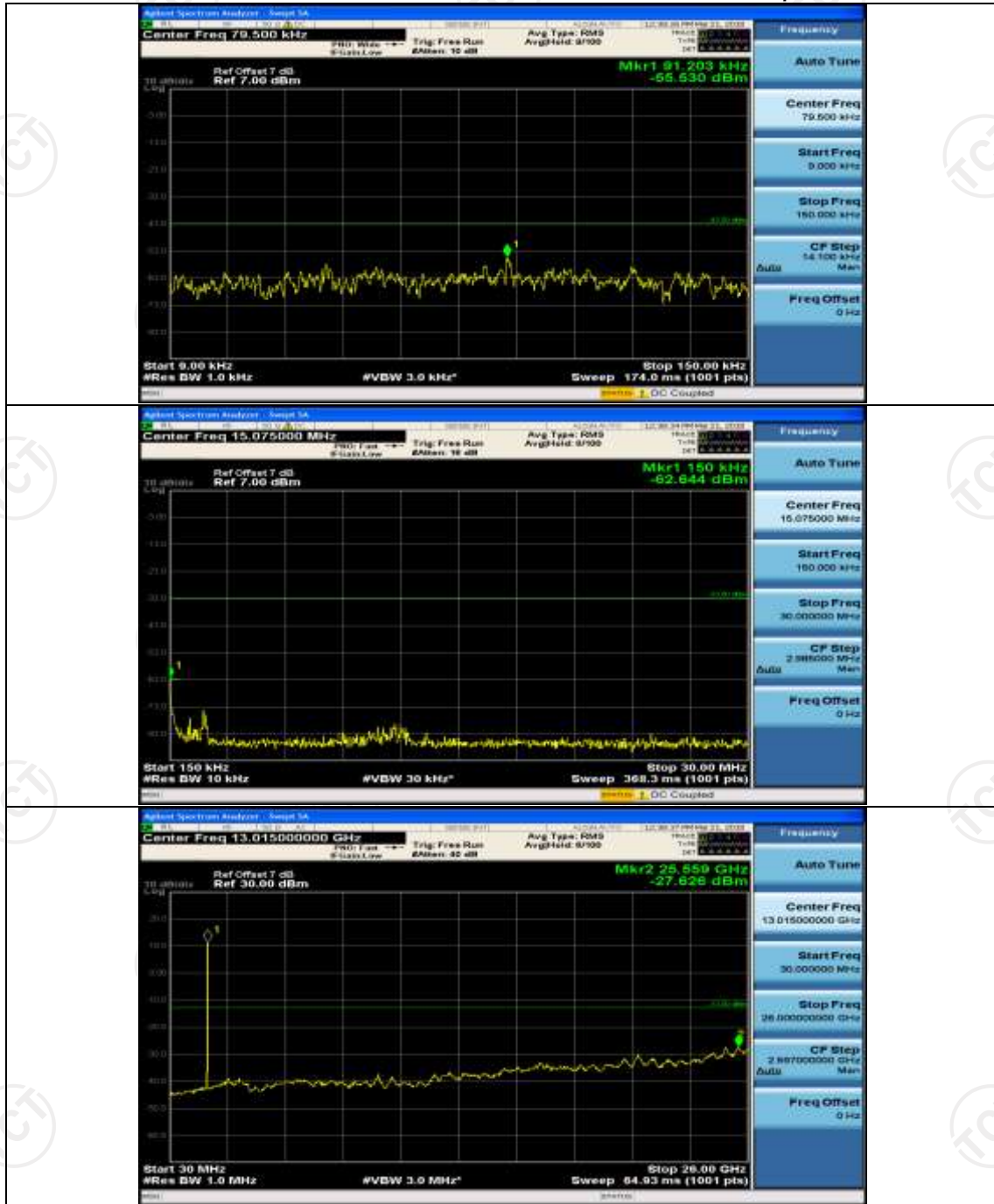


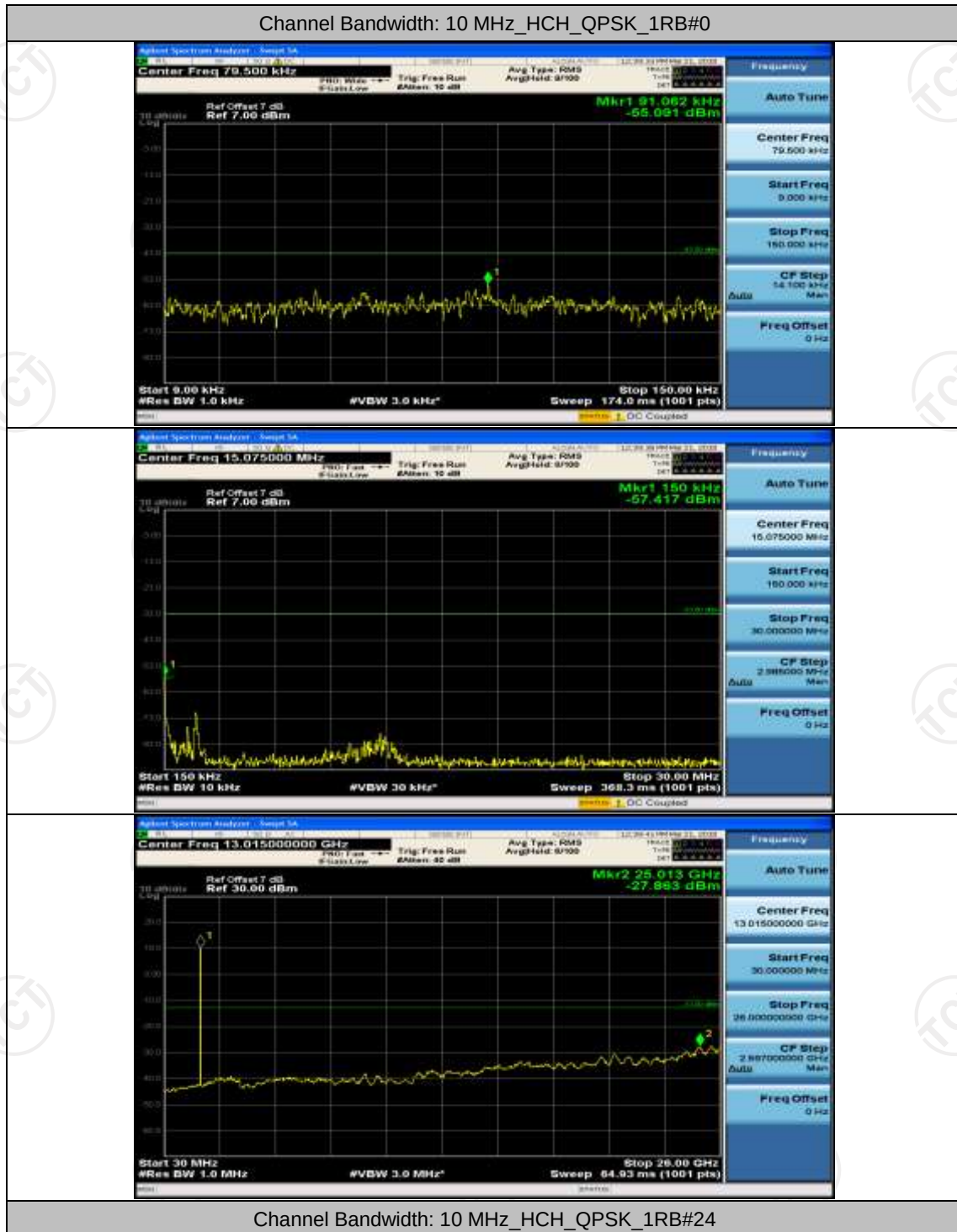


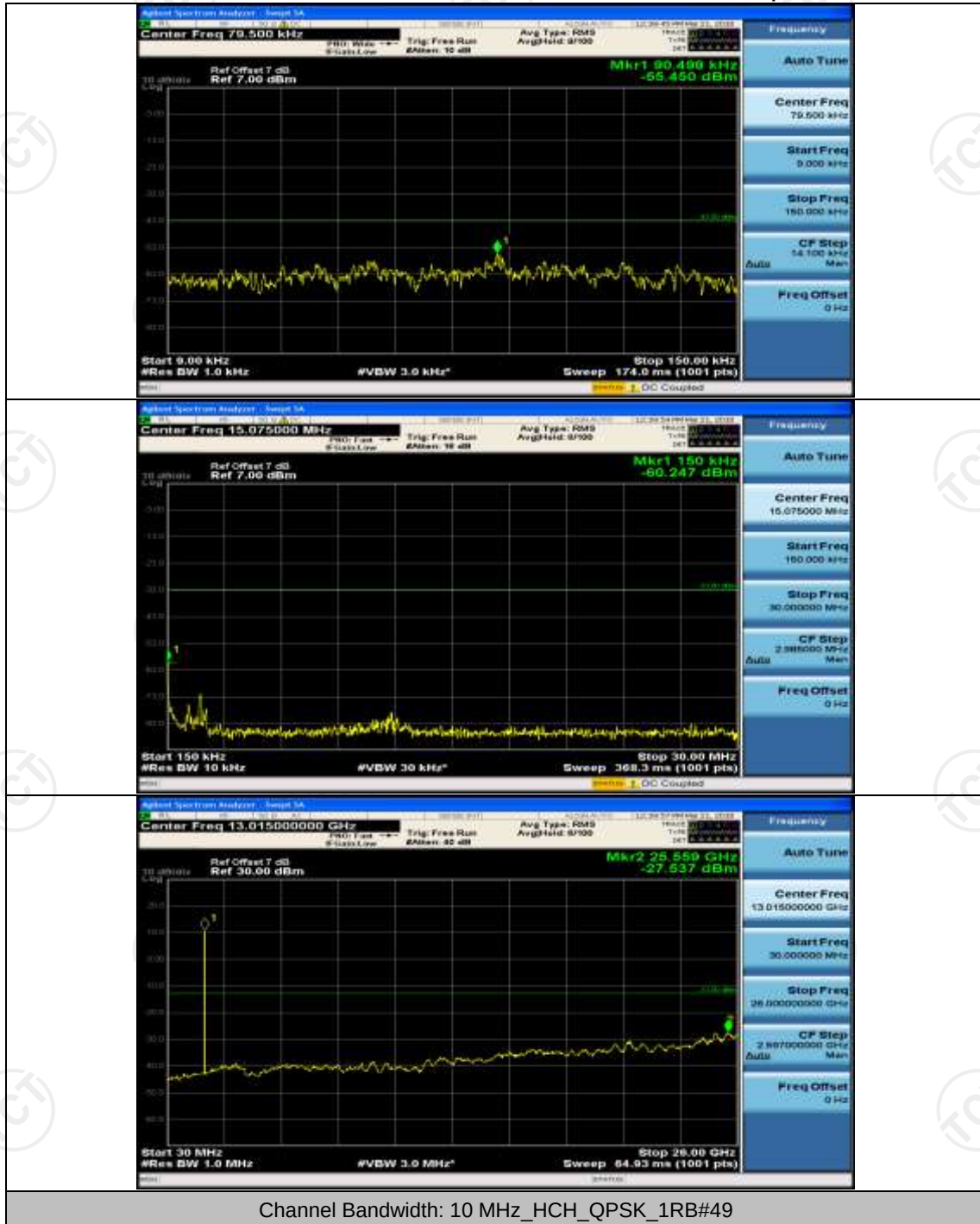


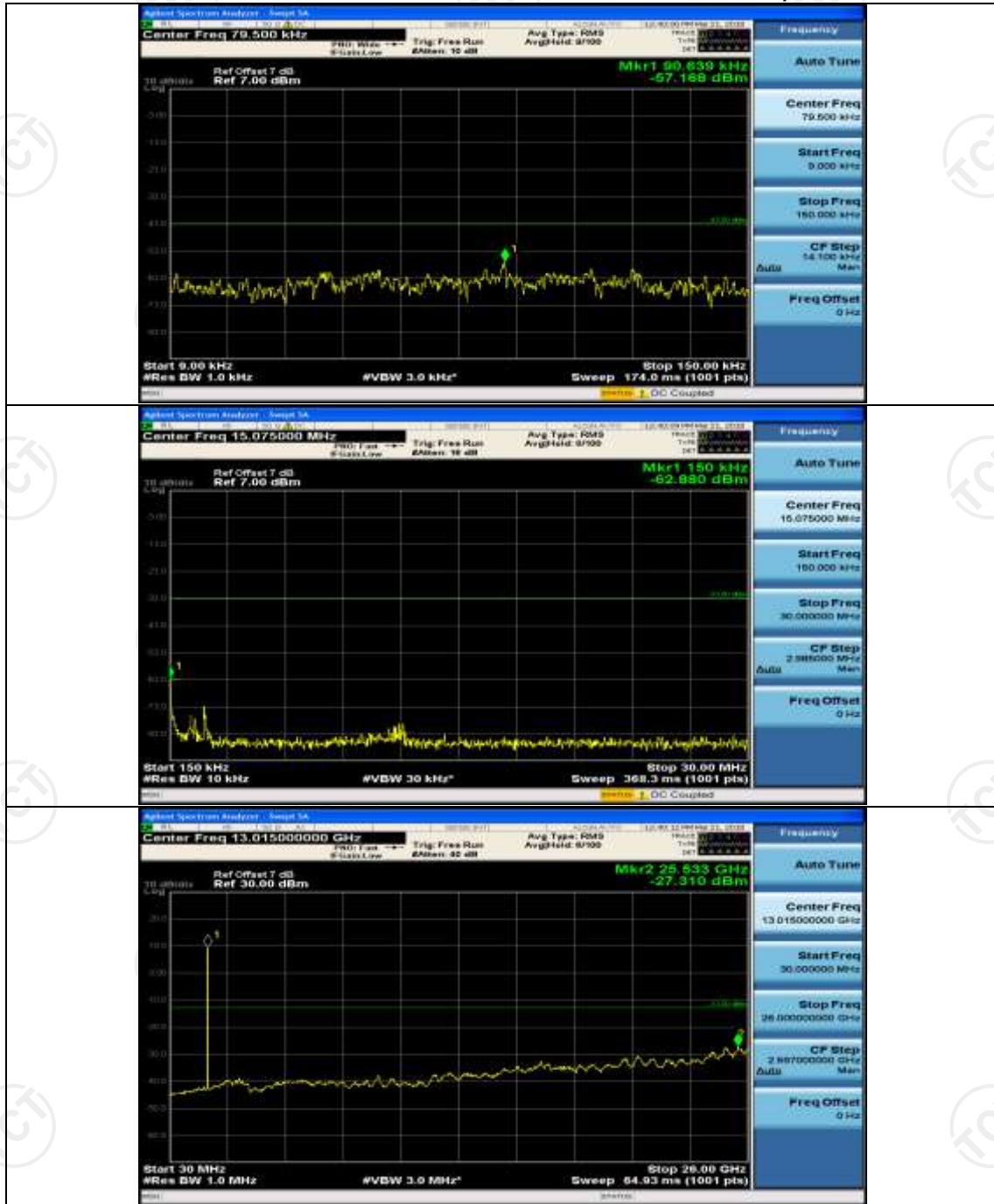


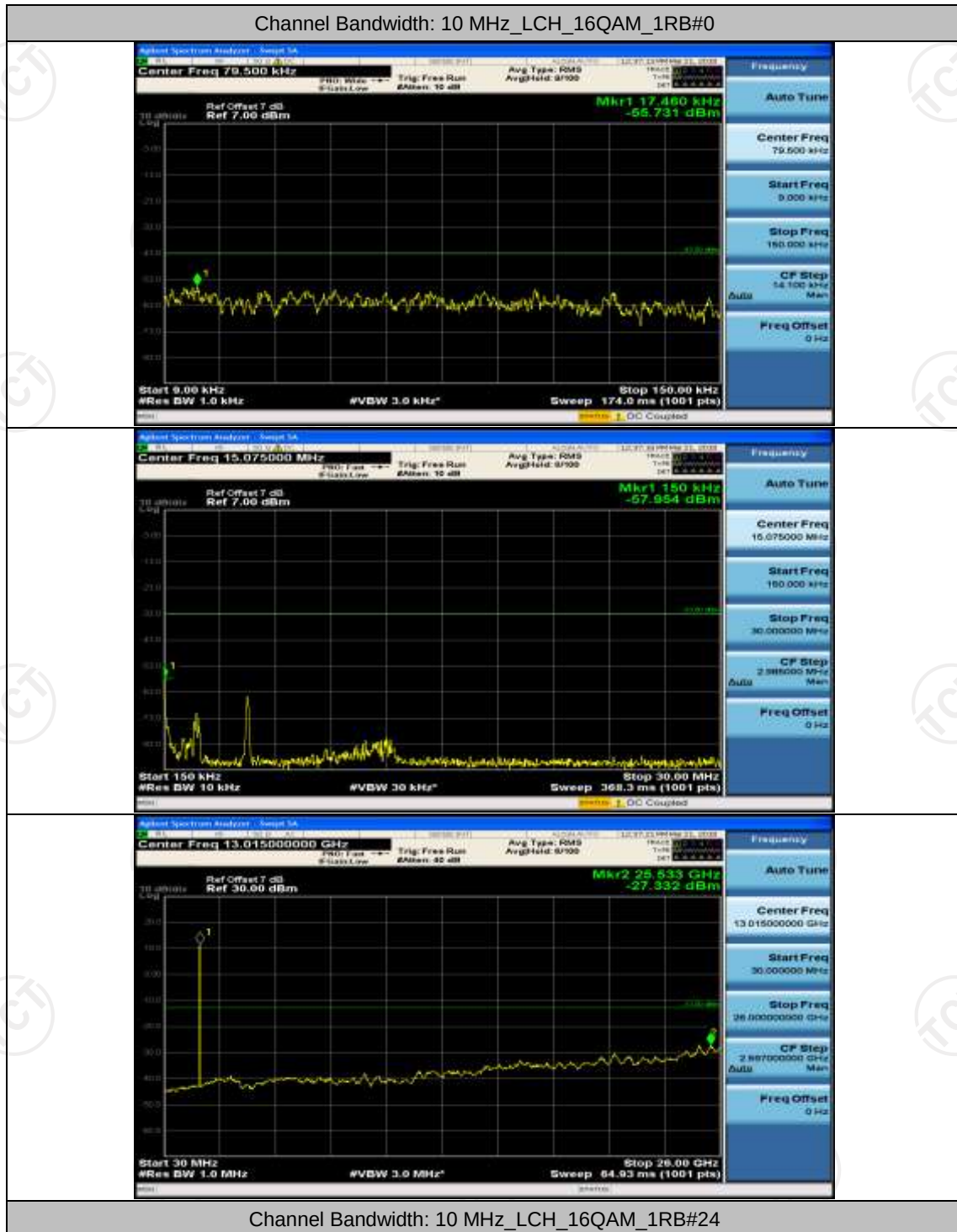


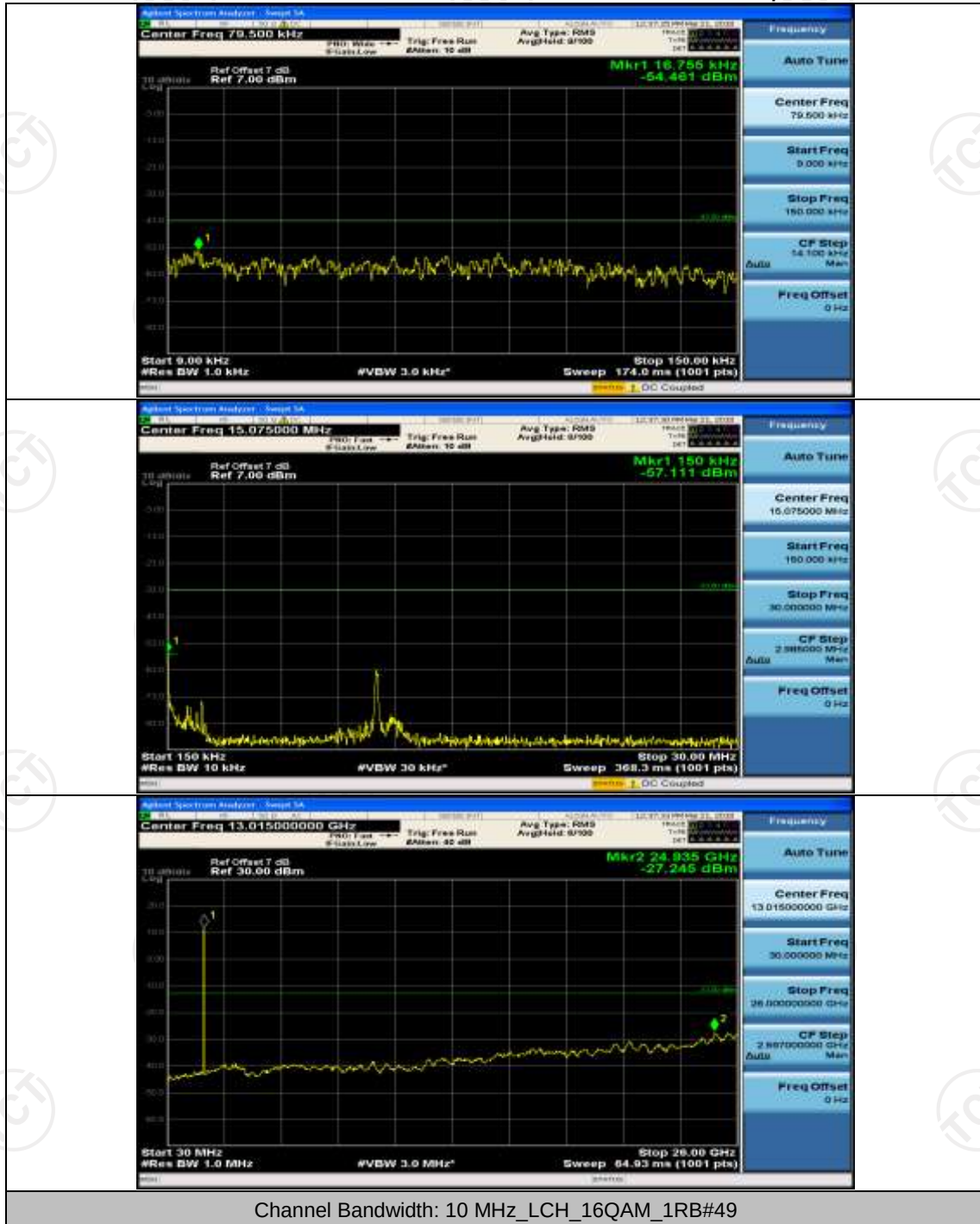


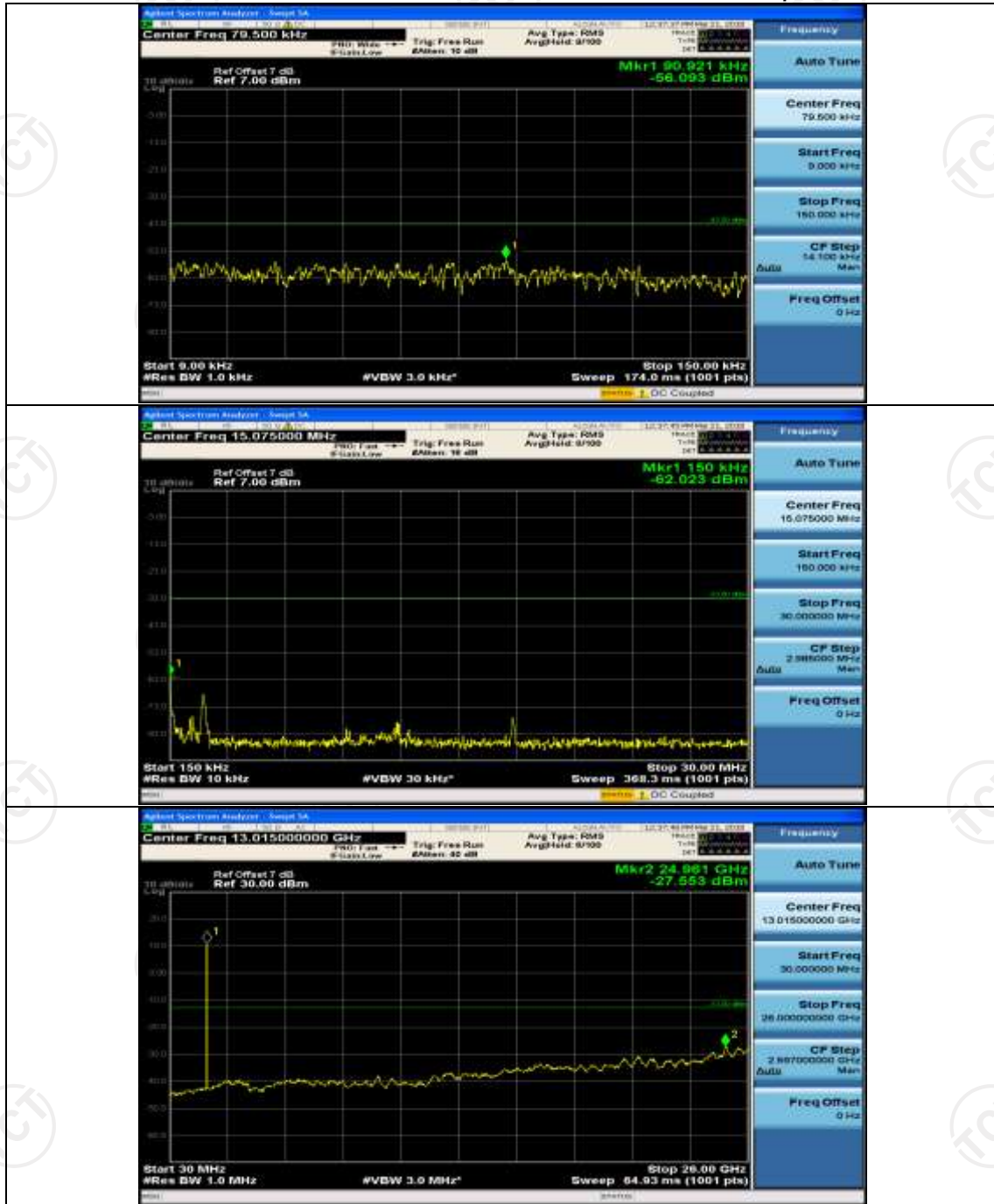


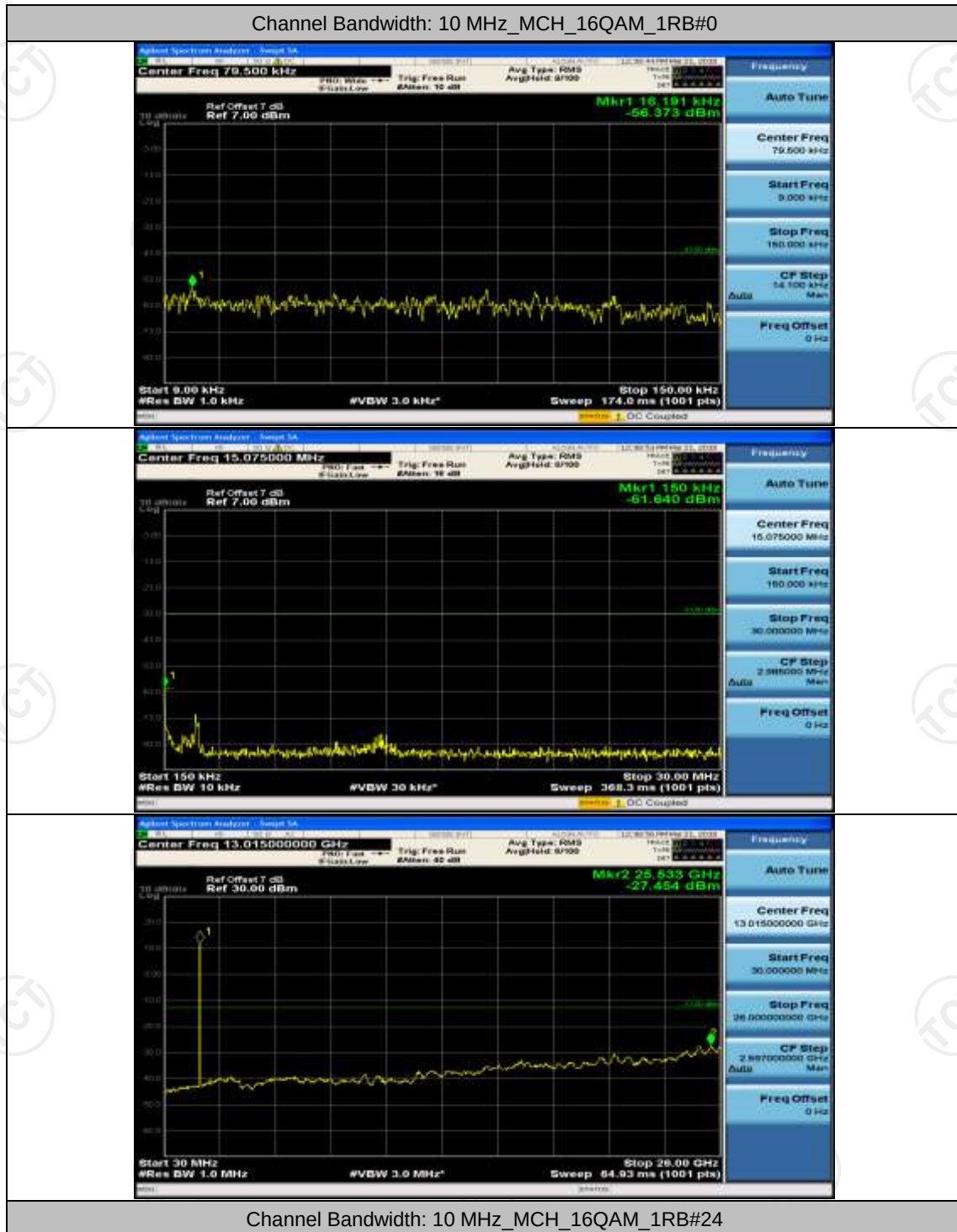


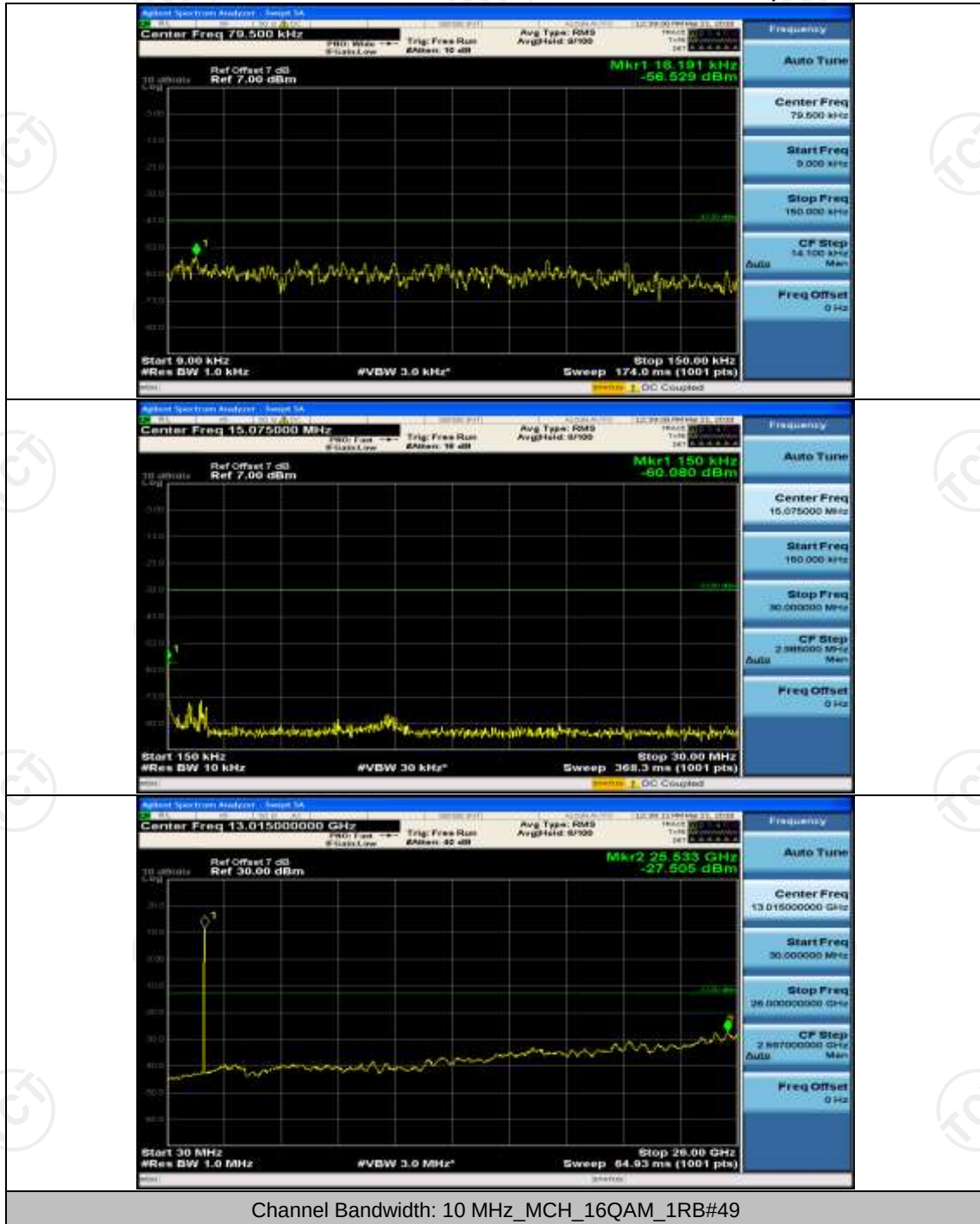


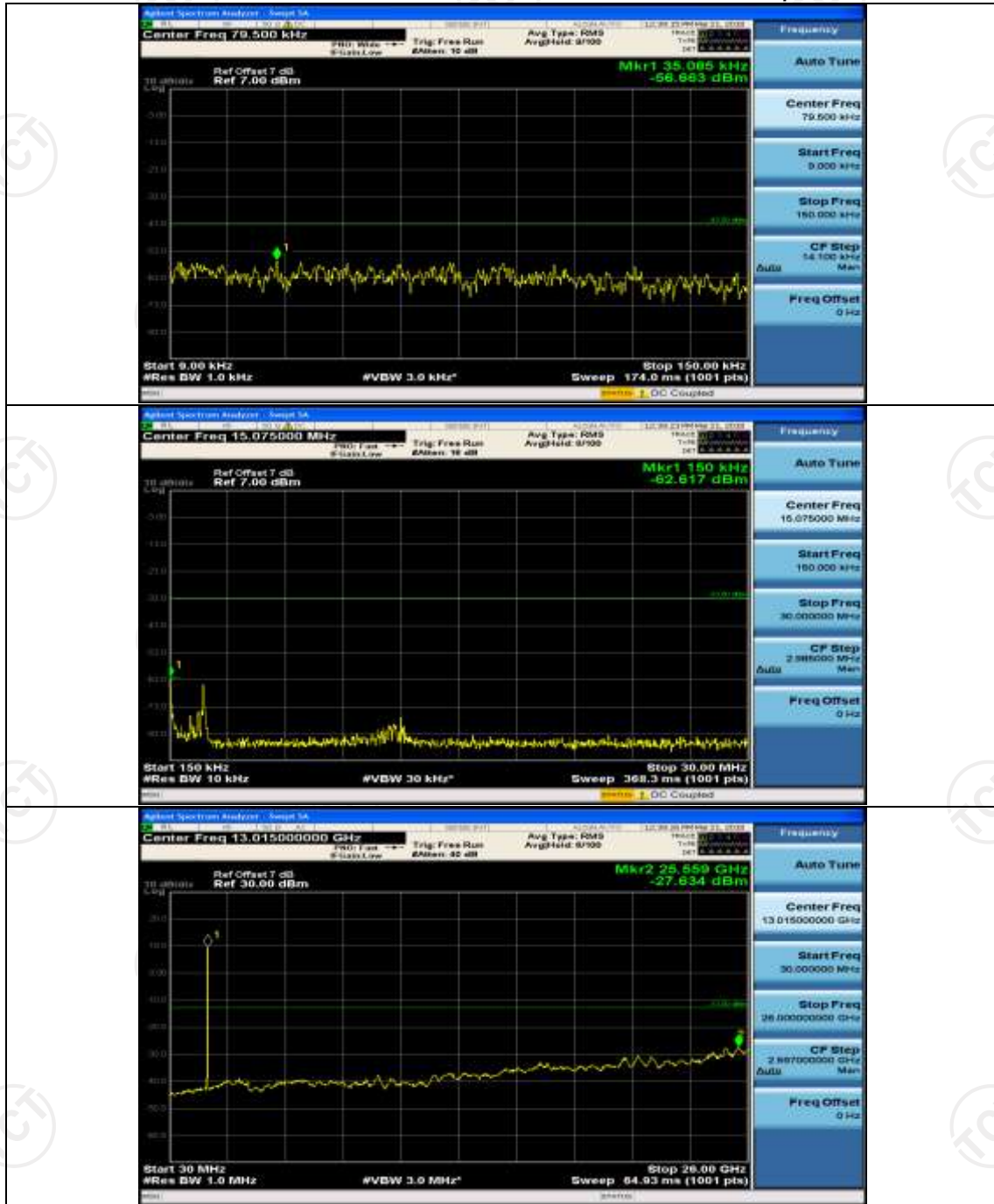


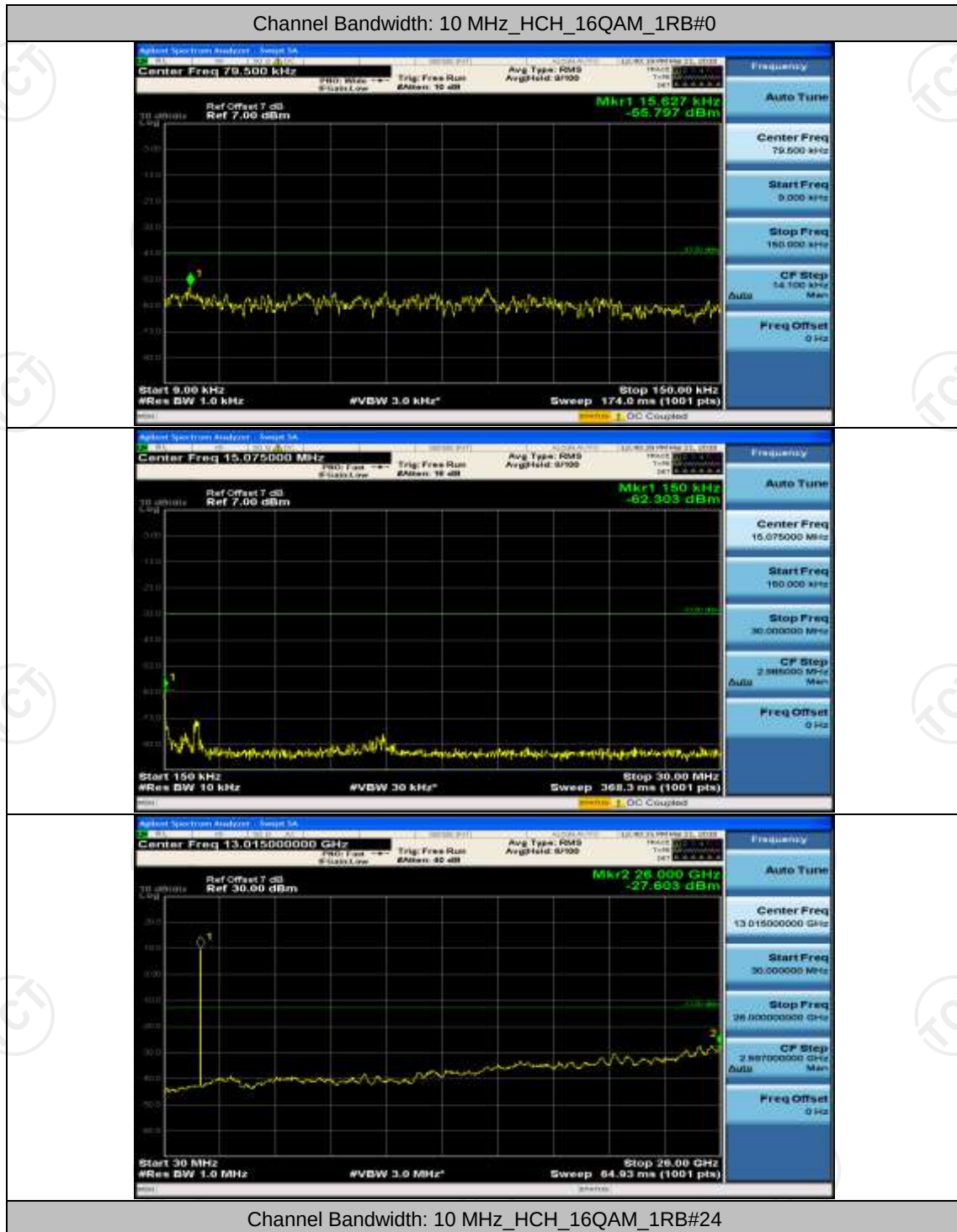


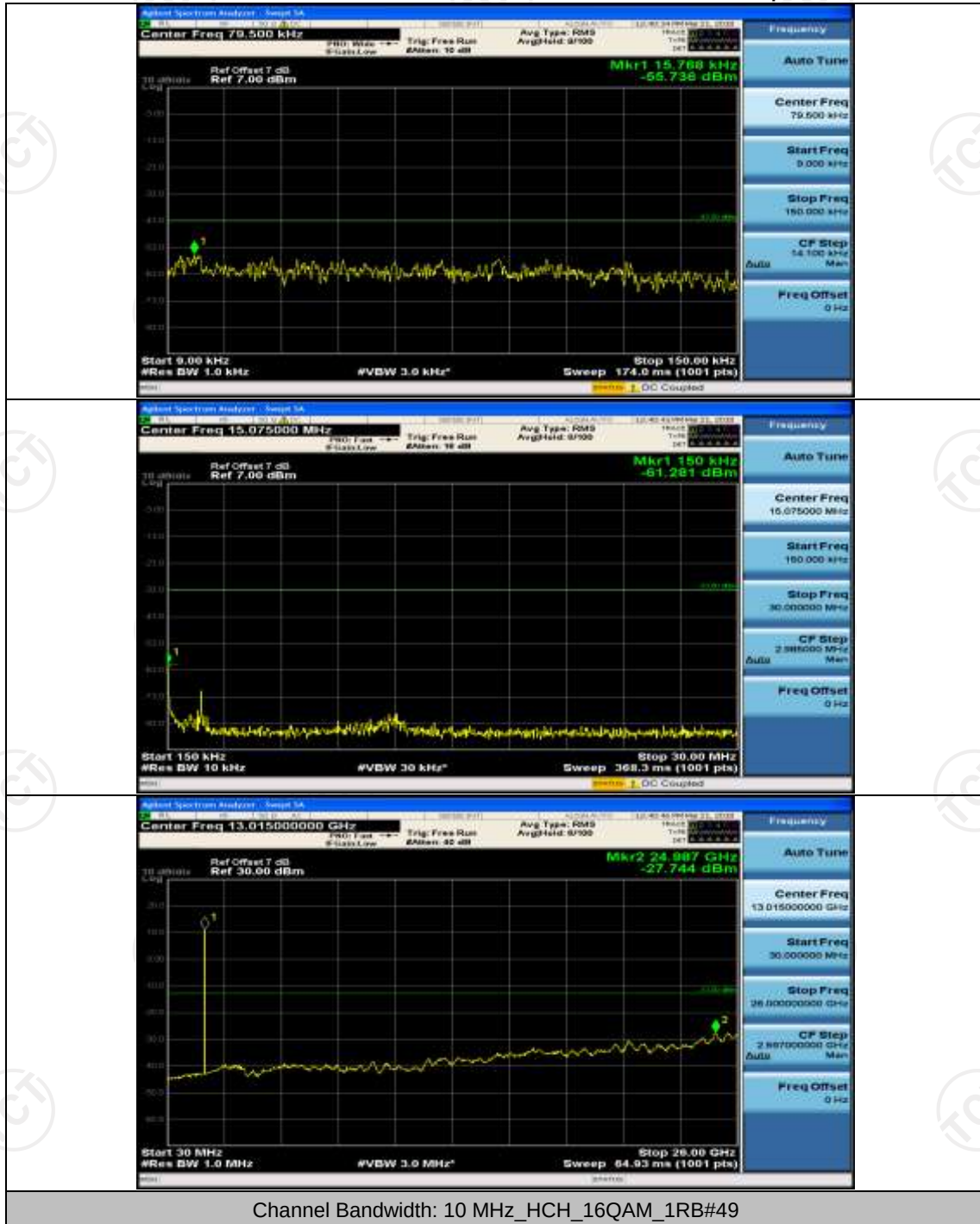


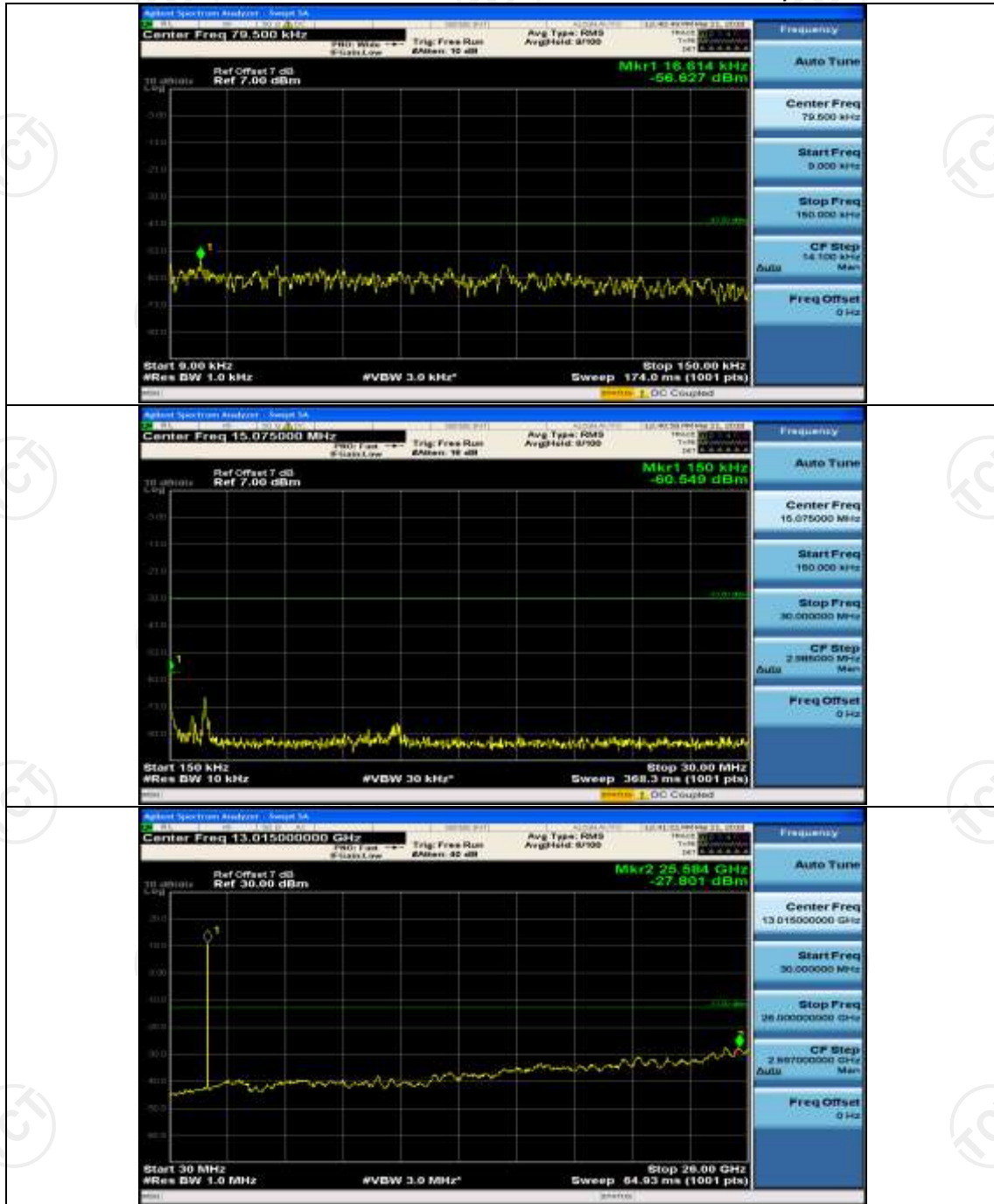




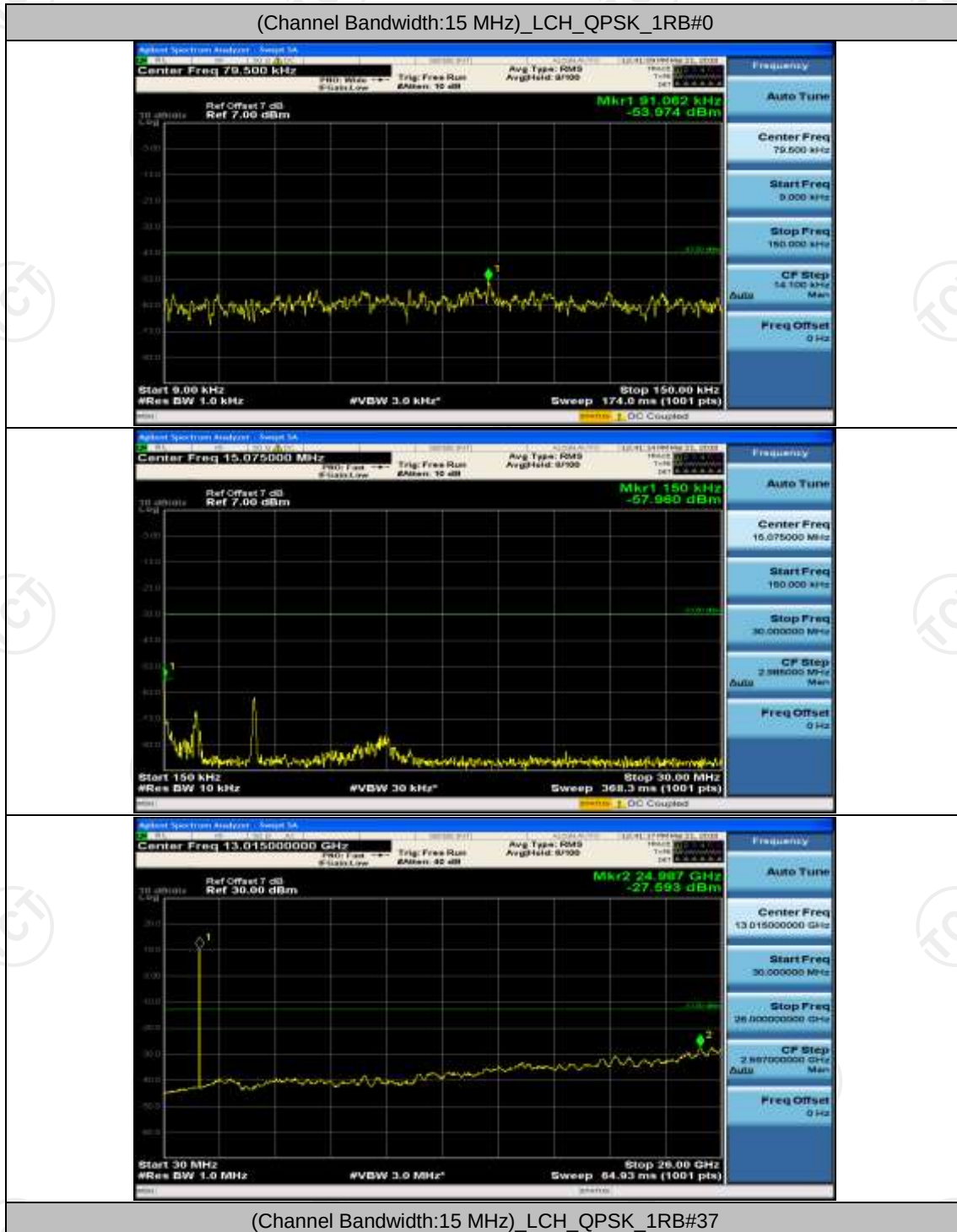


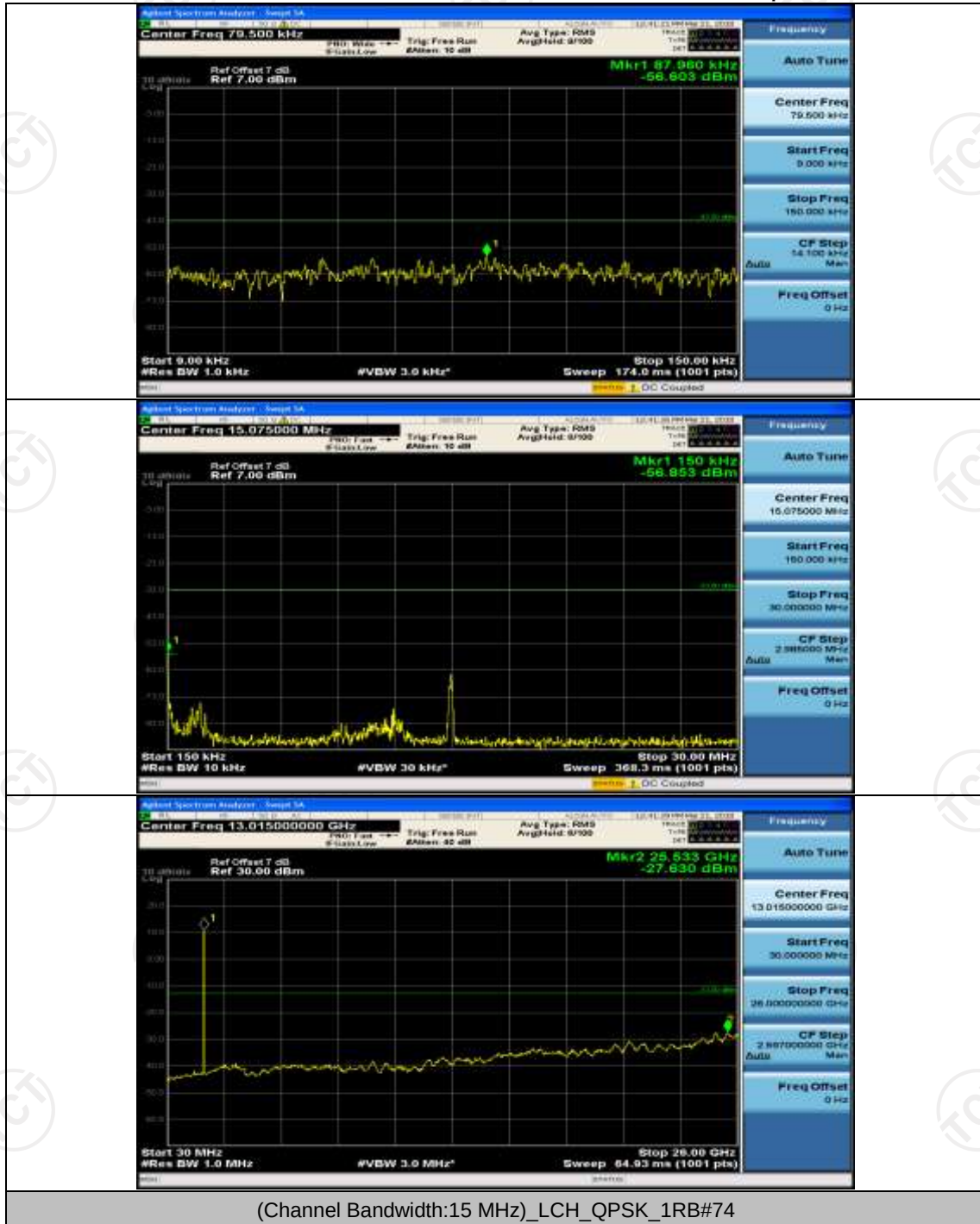


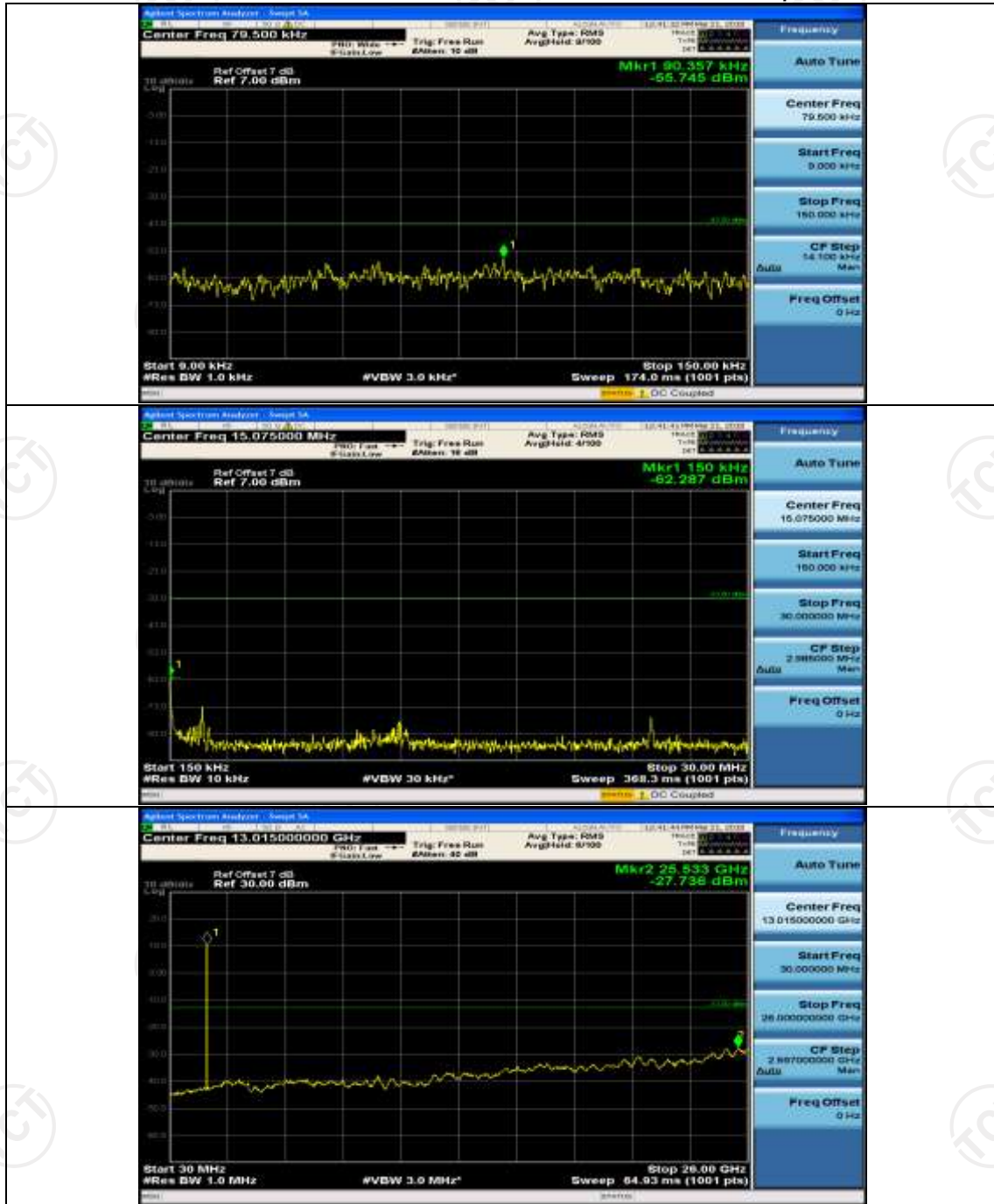


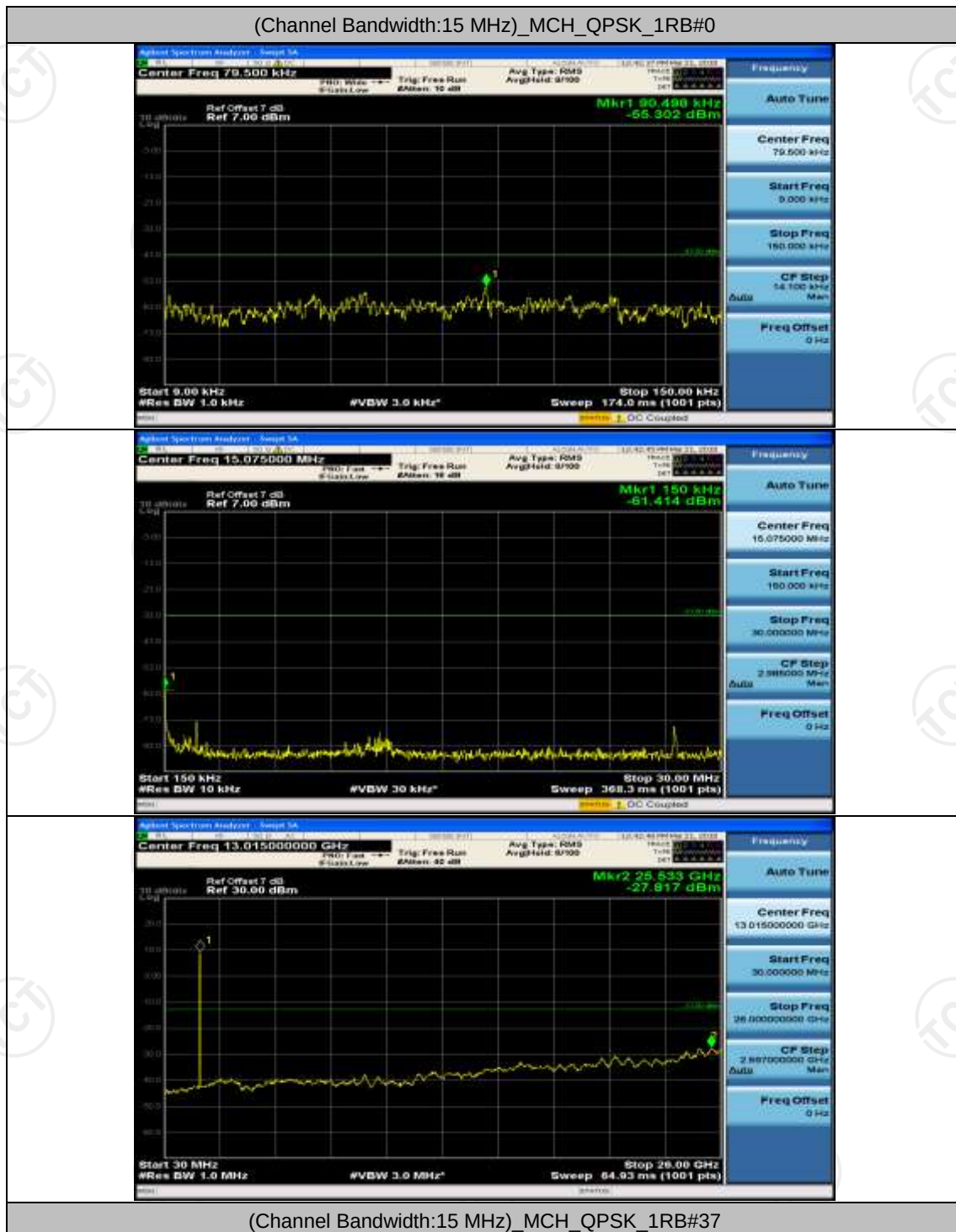


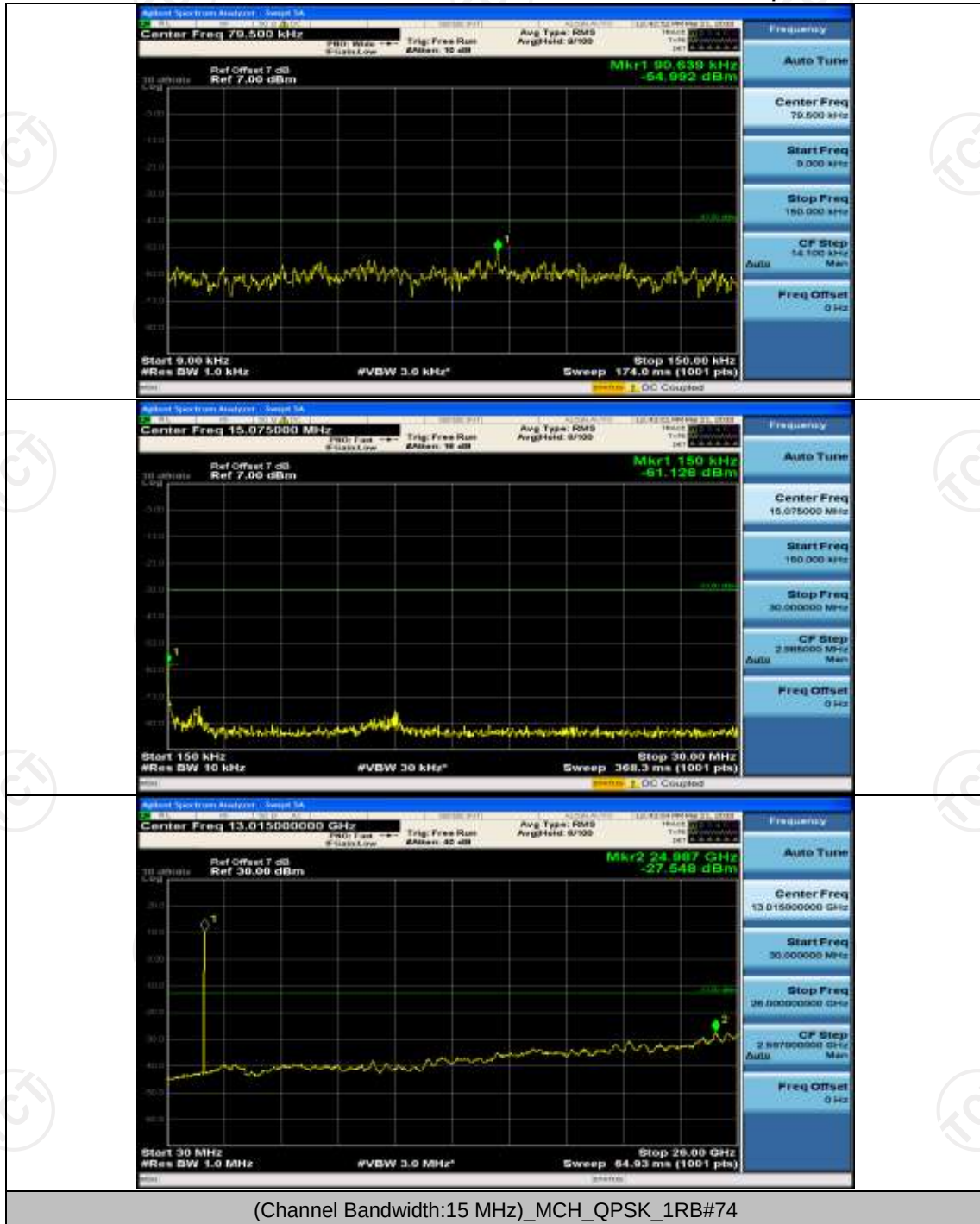
Channel Bandwidth: 15 MHz

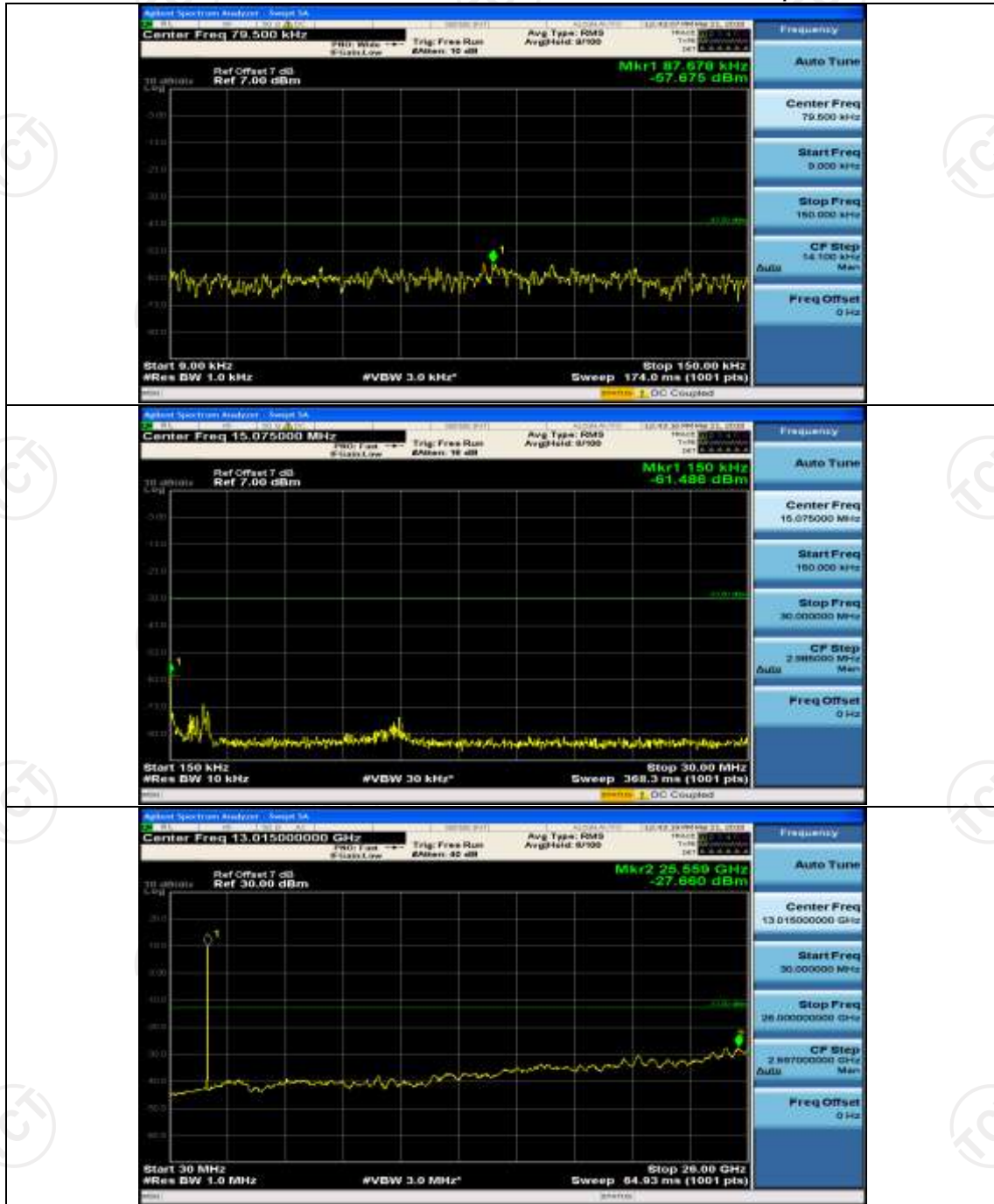


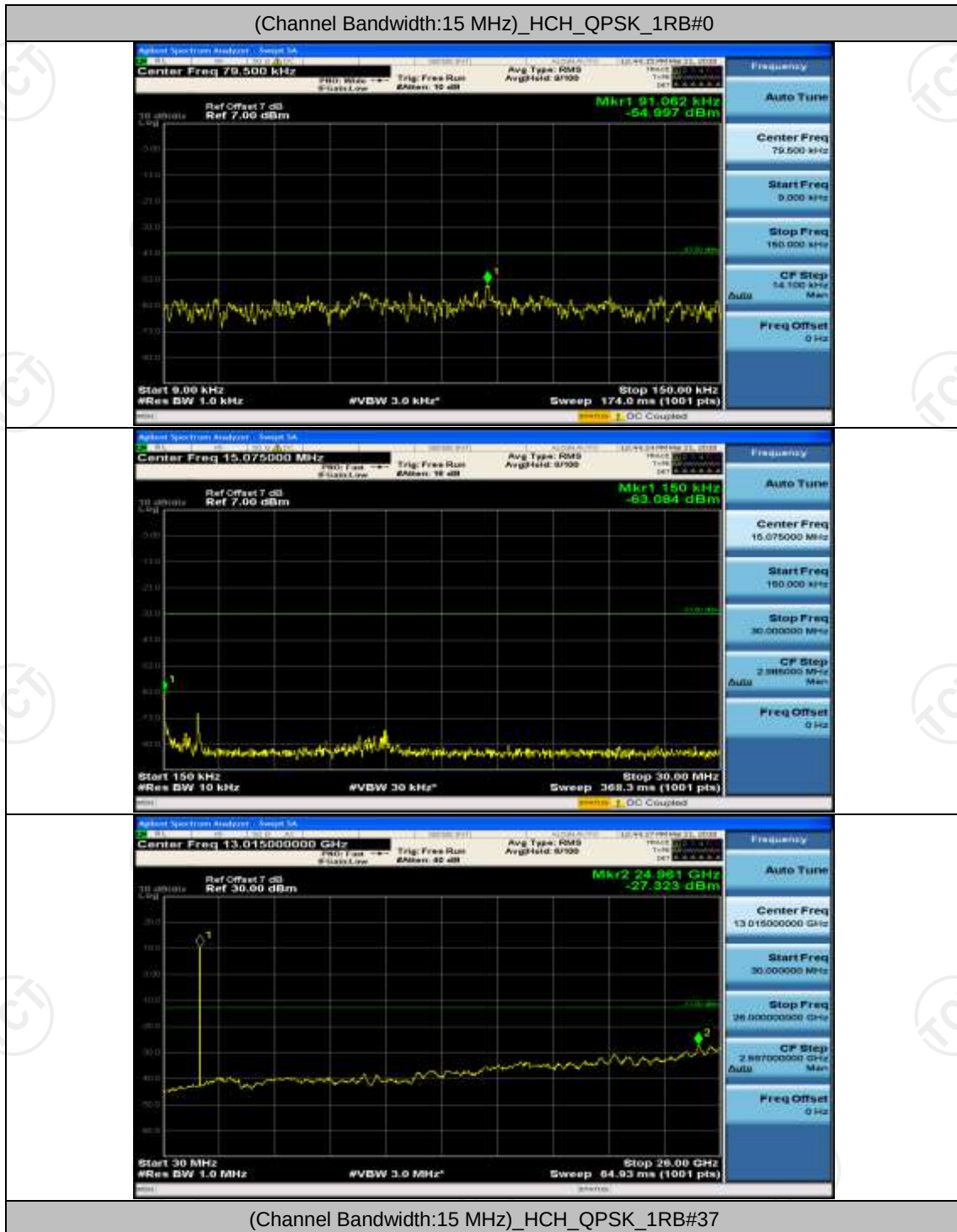


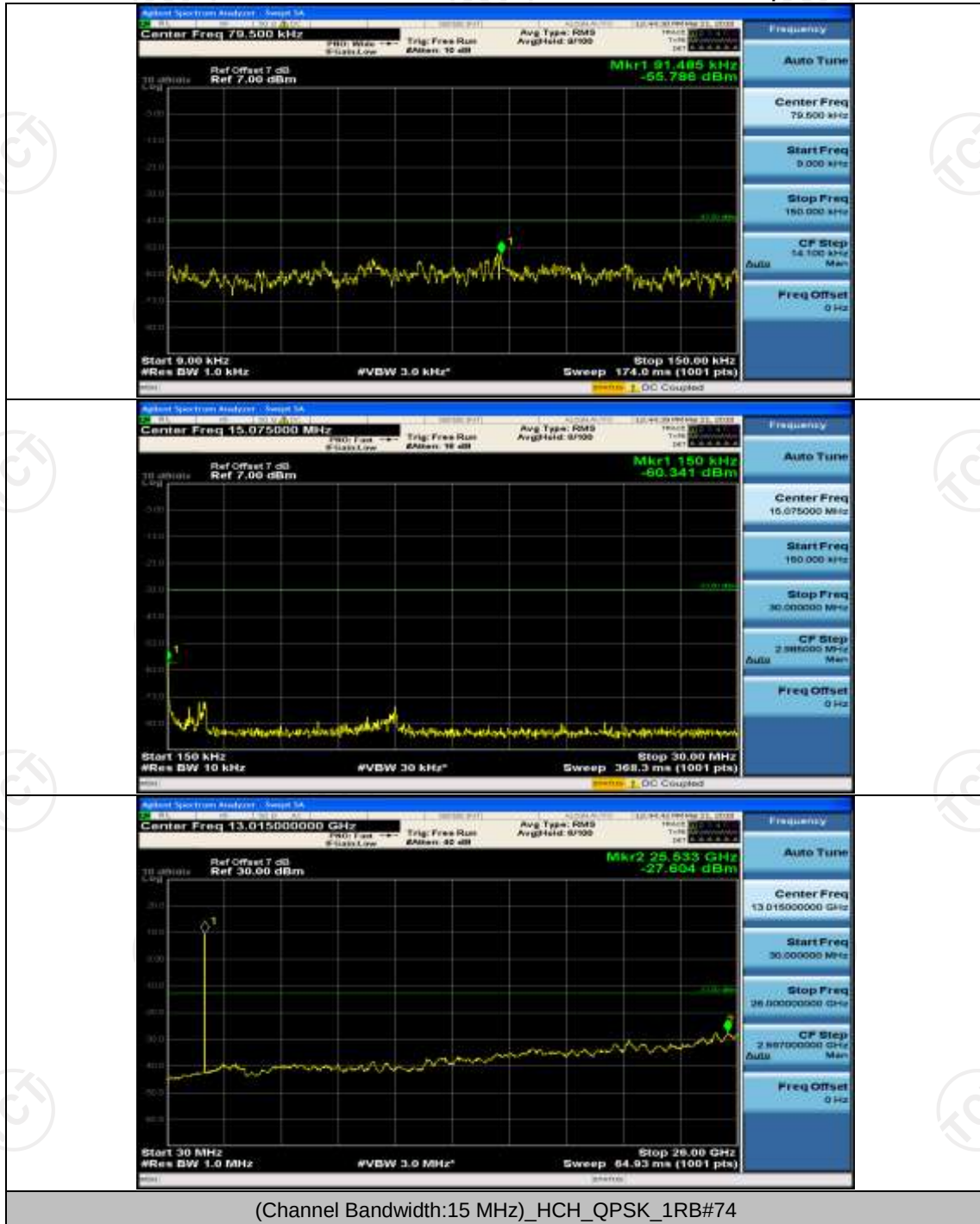


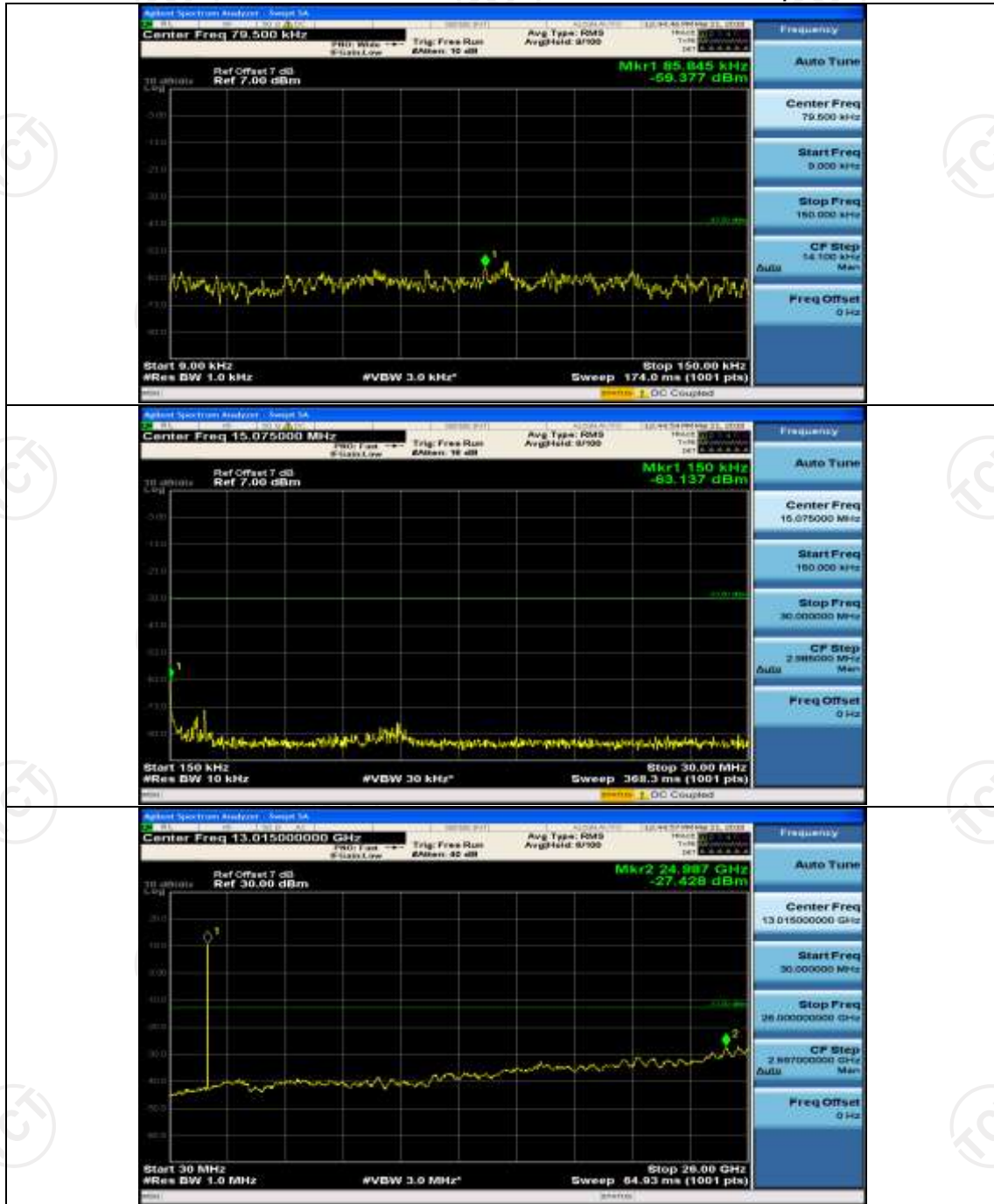


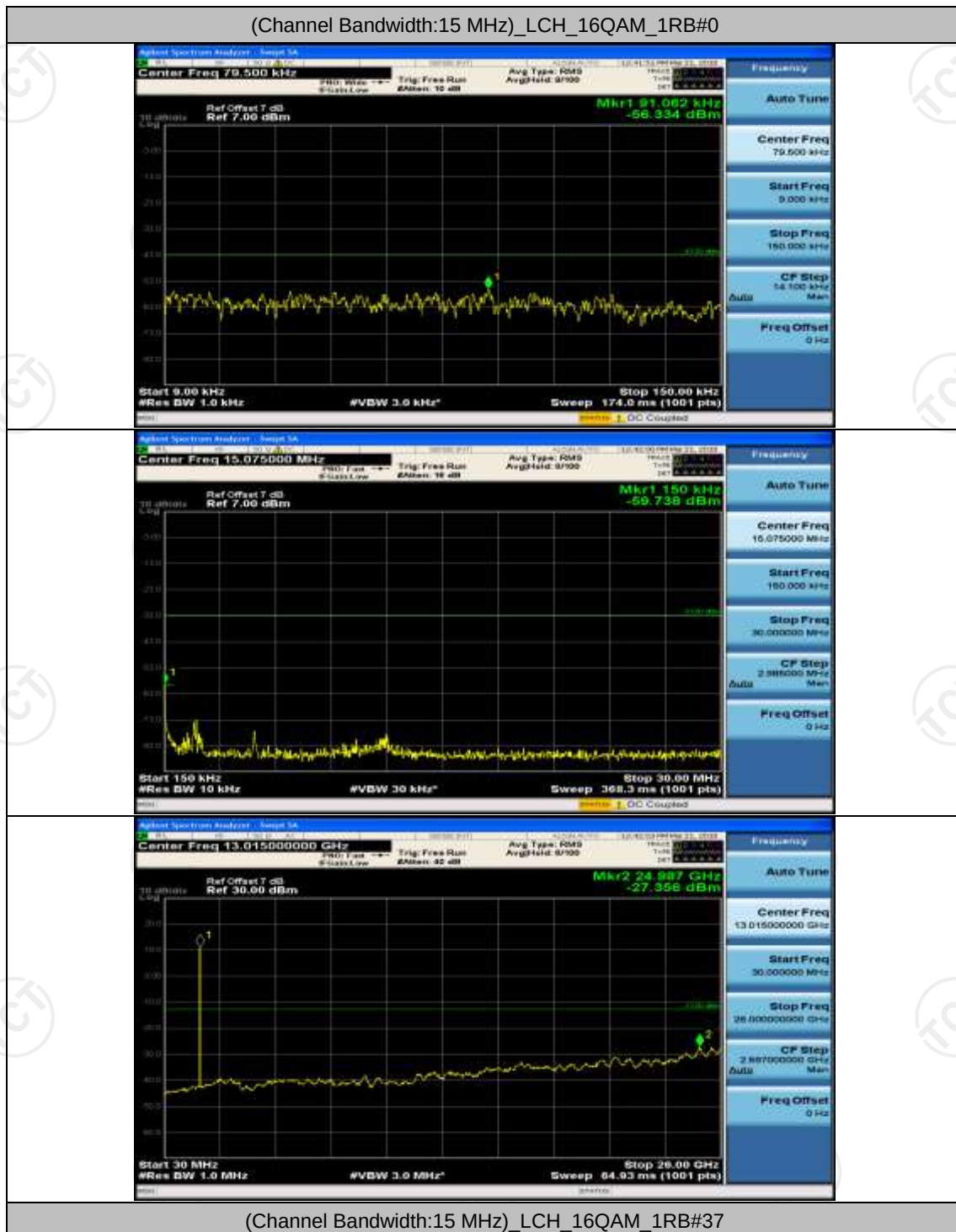


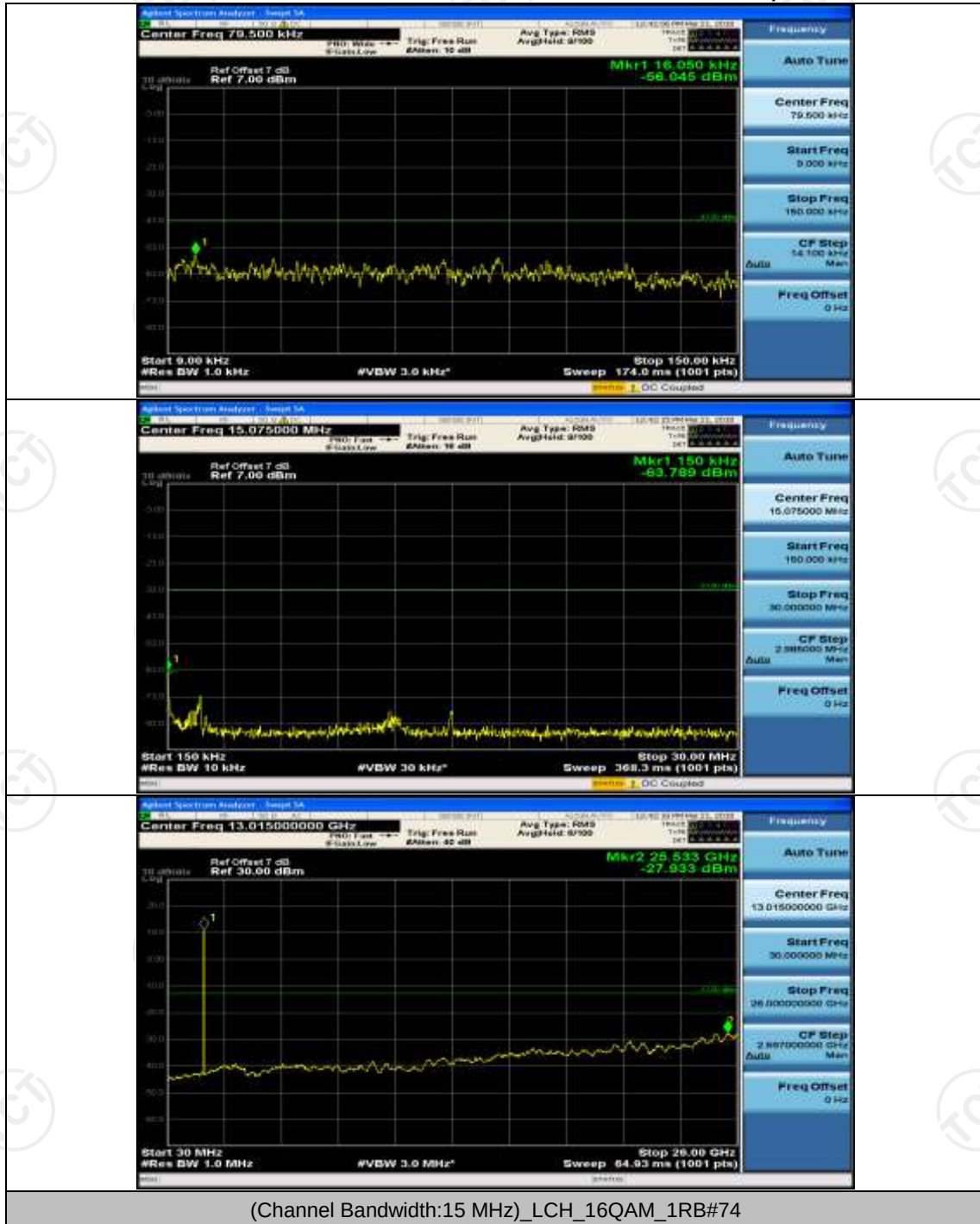


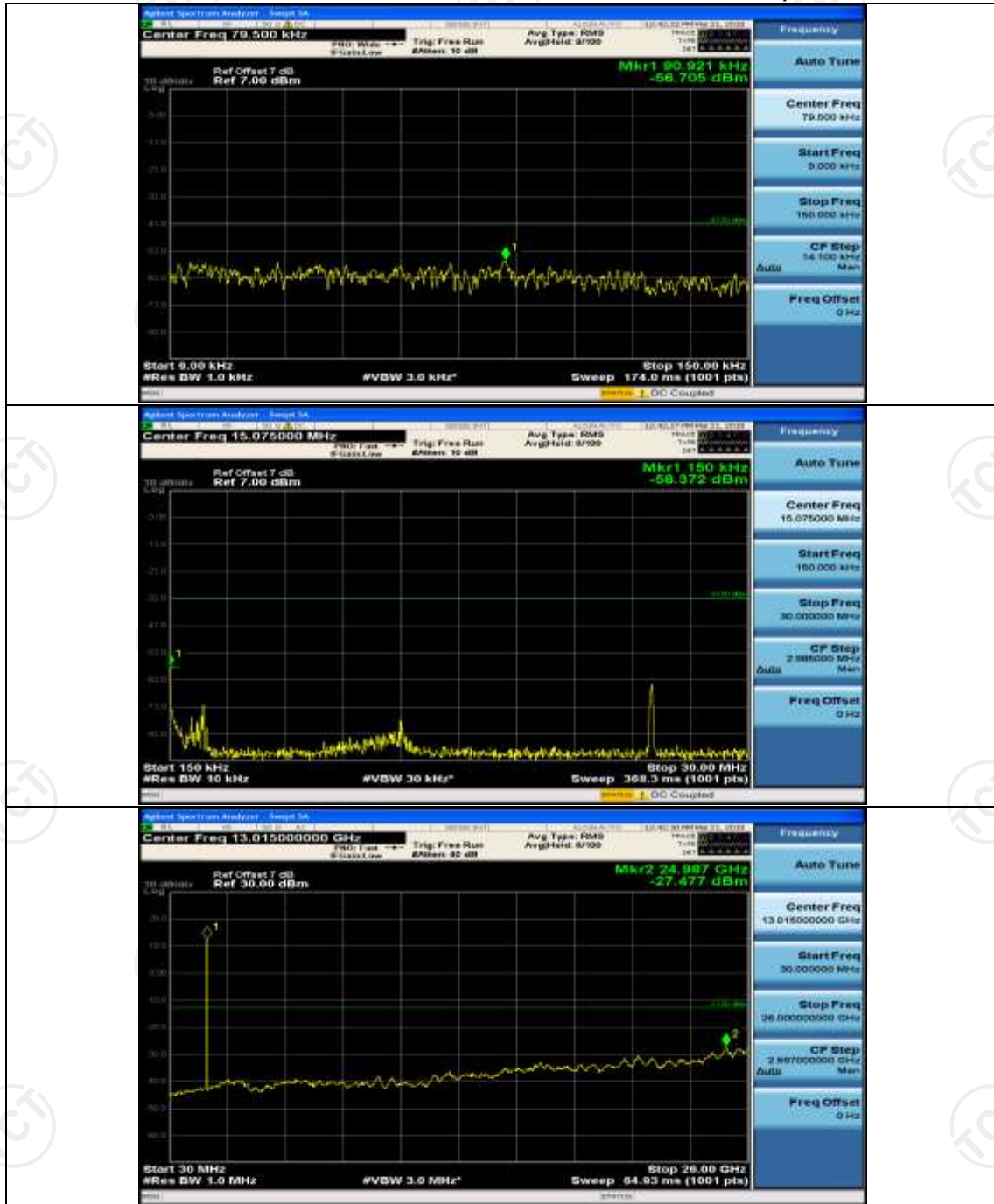




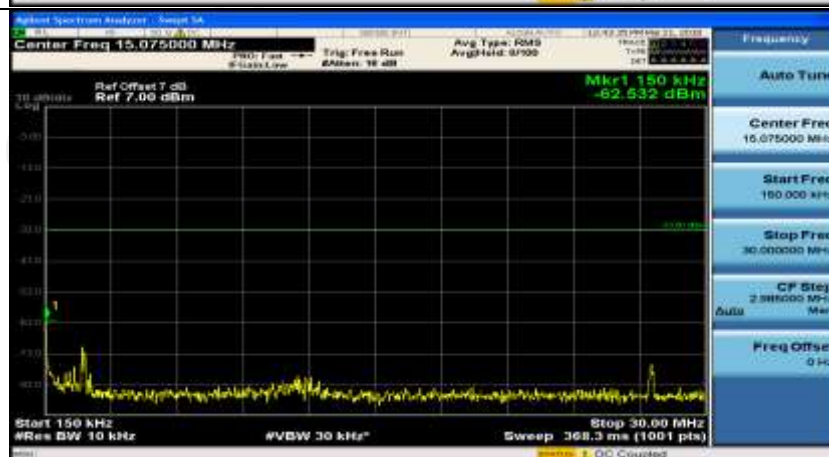
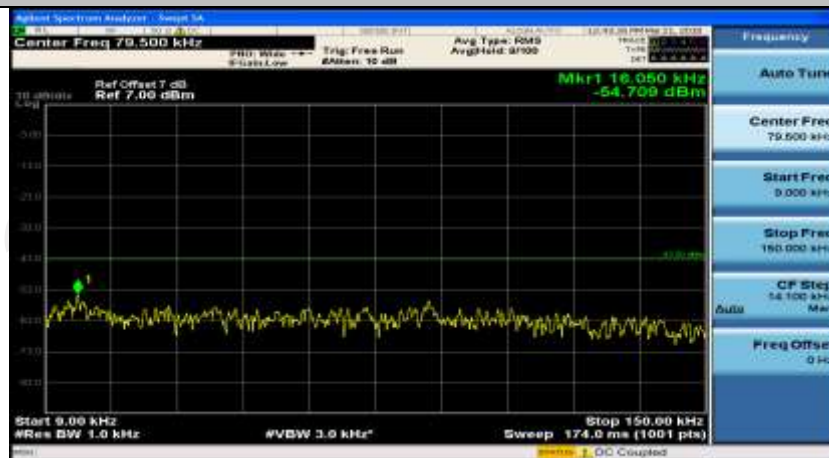




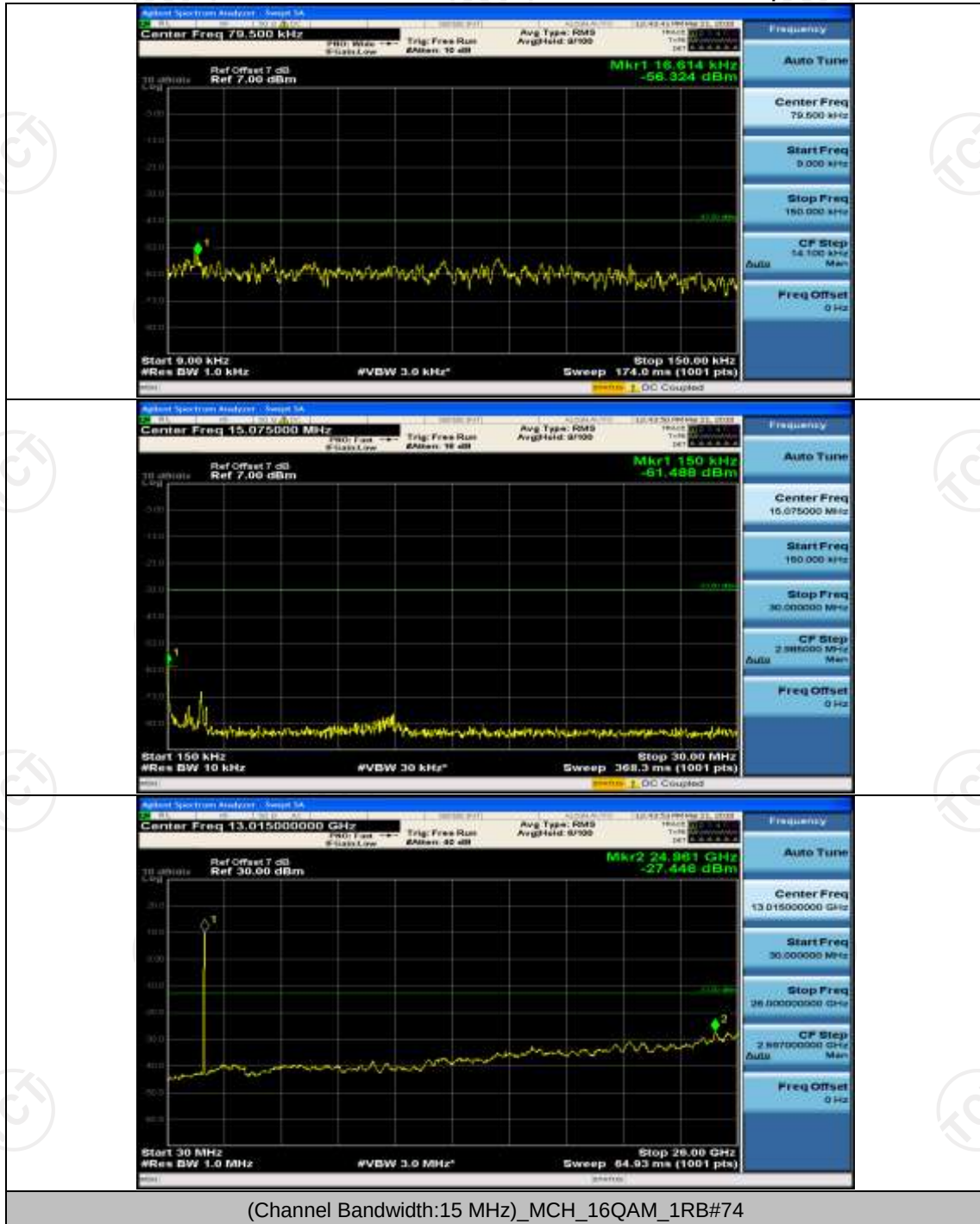


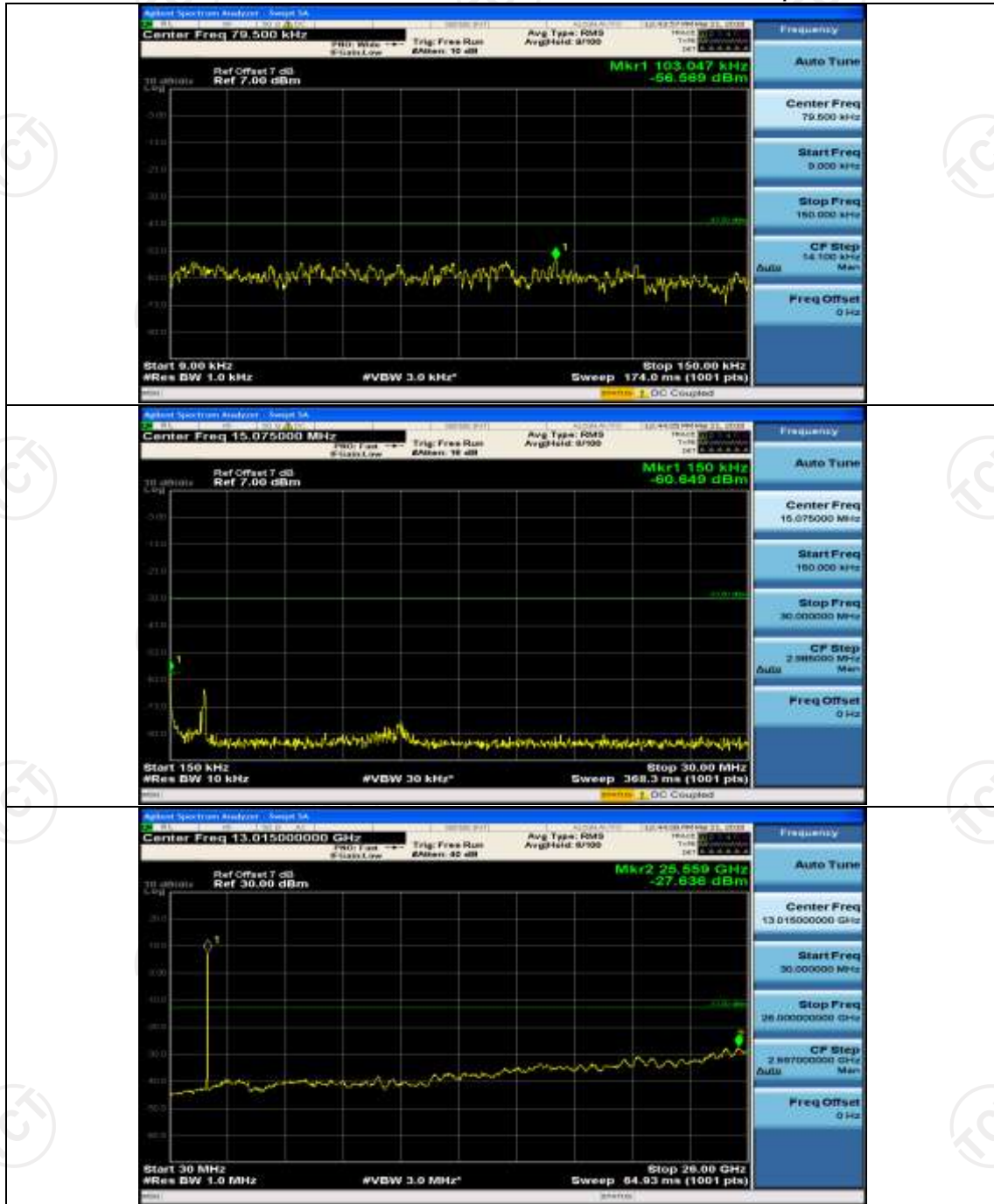


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

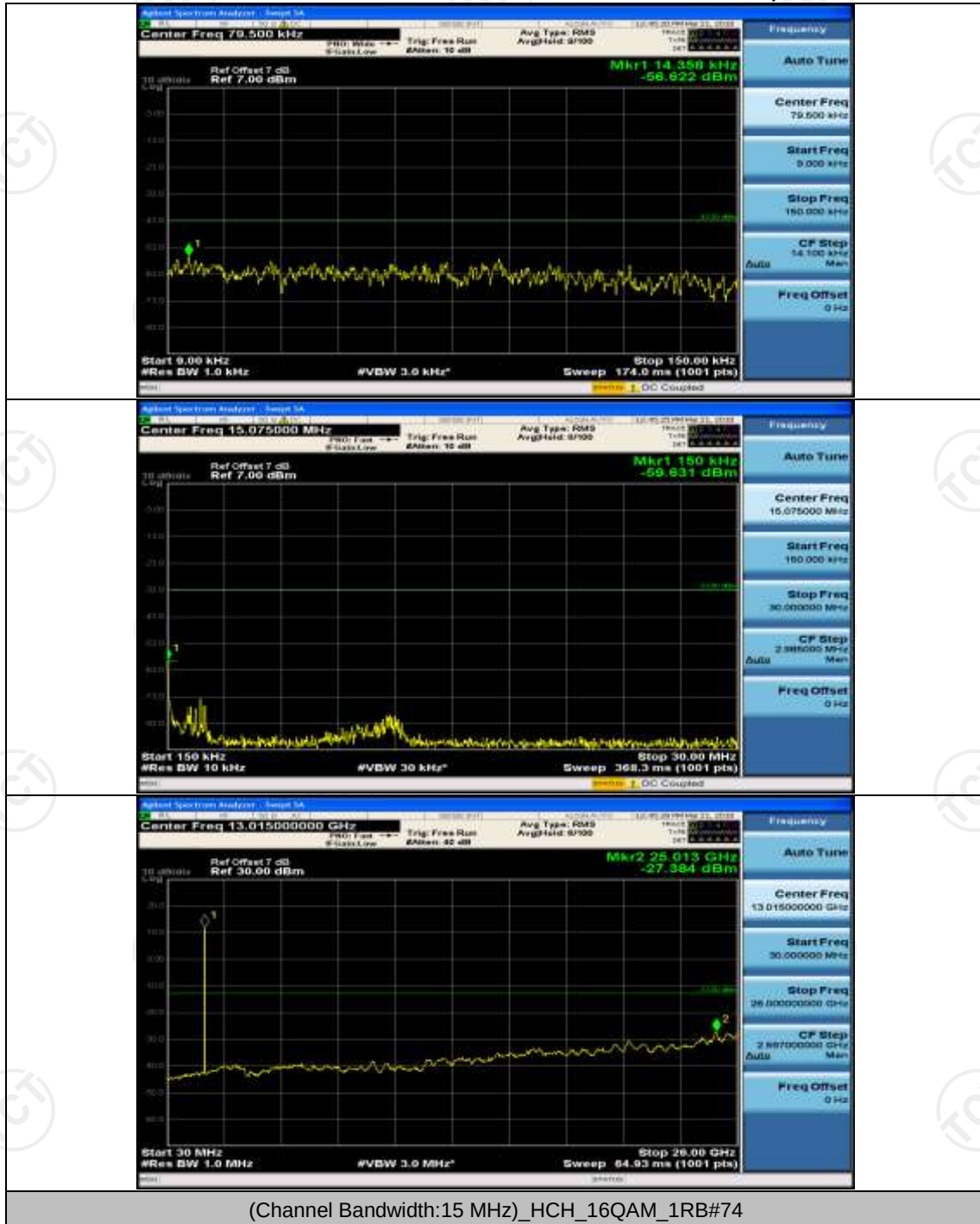


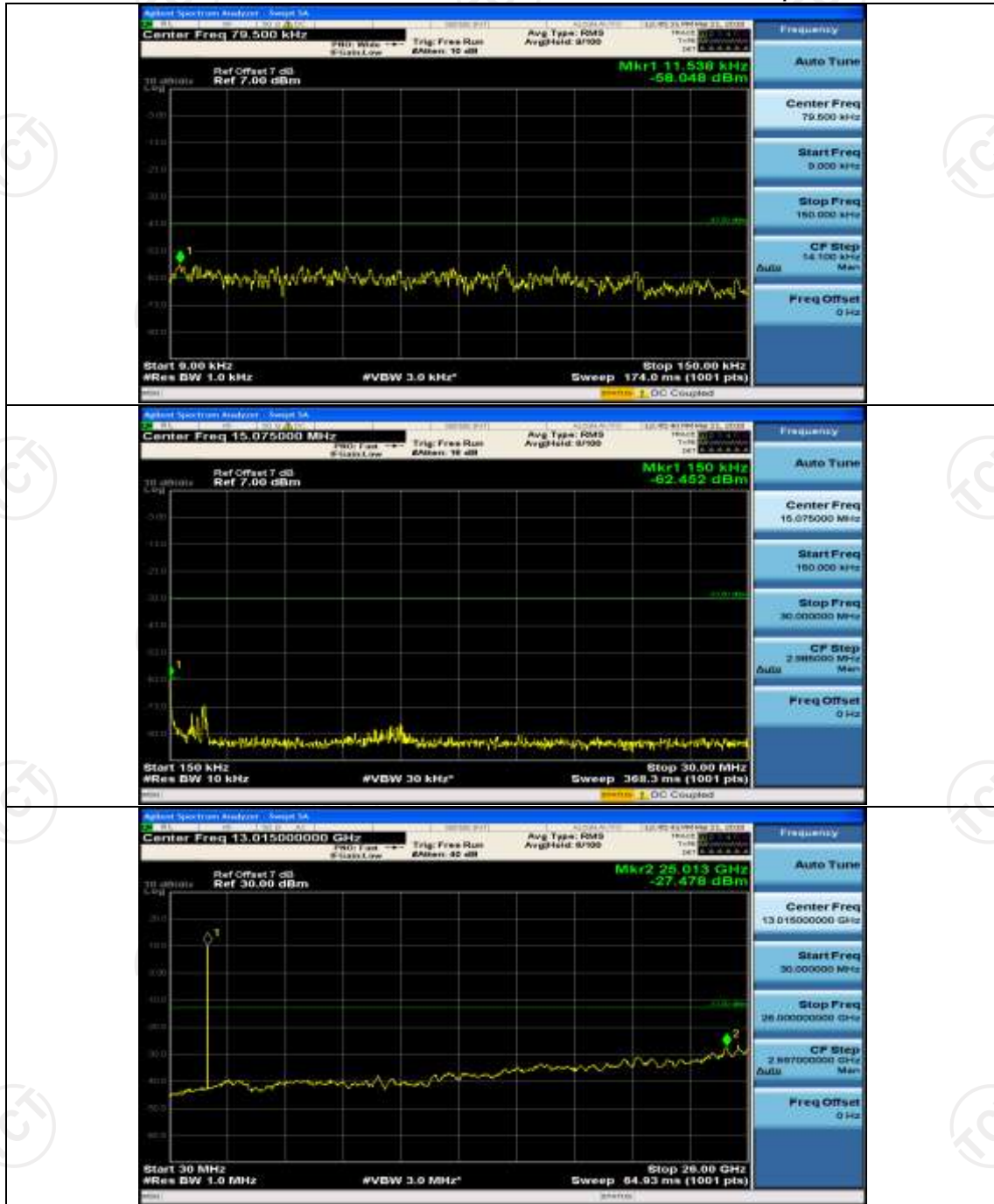


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

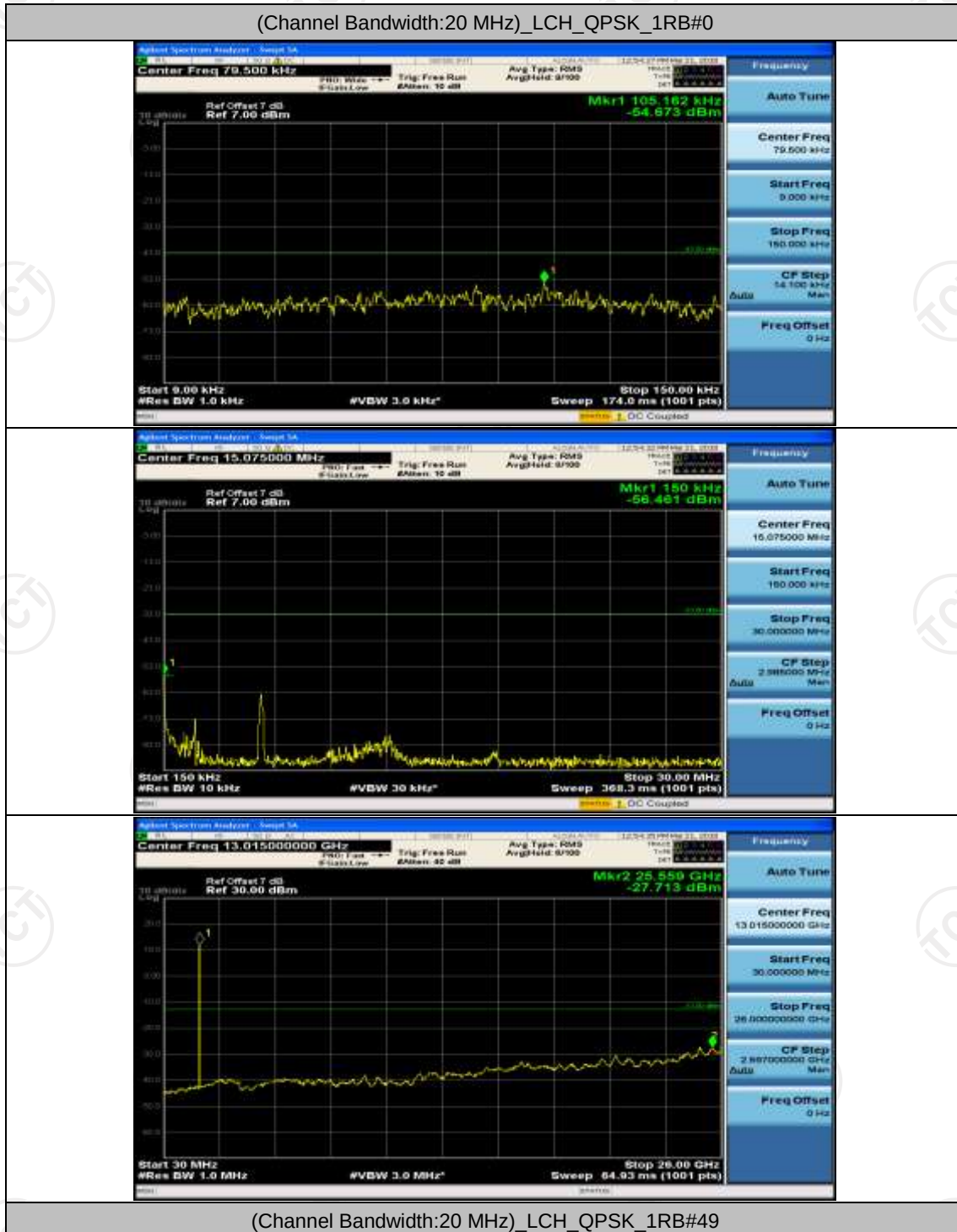


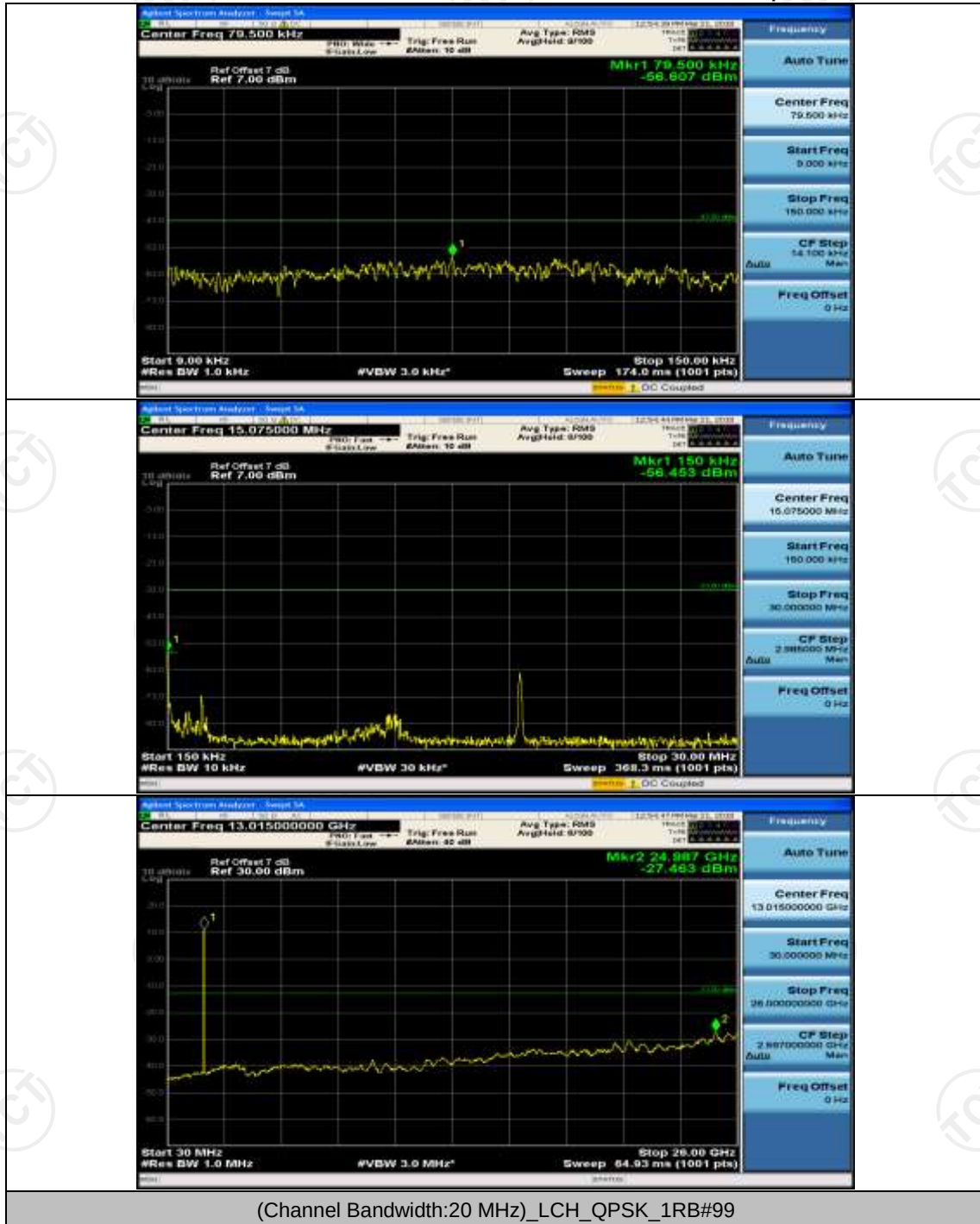
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

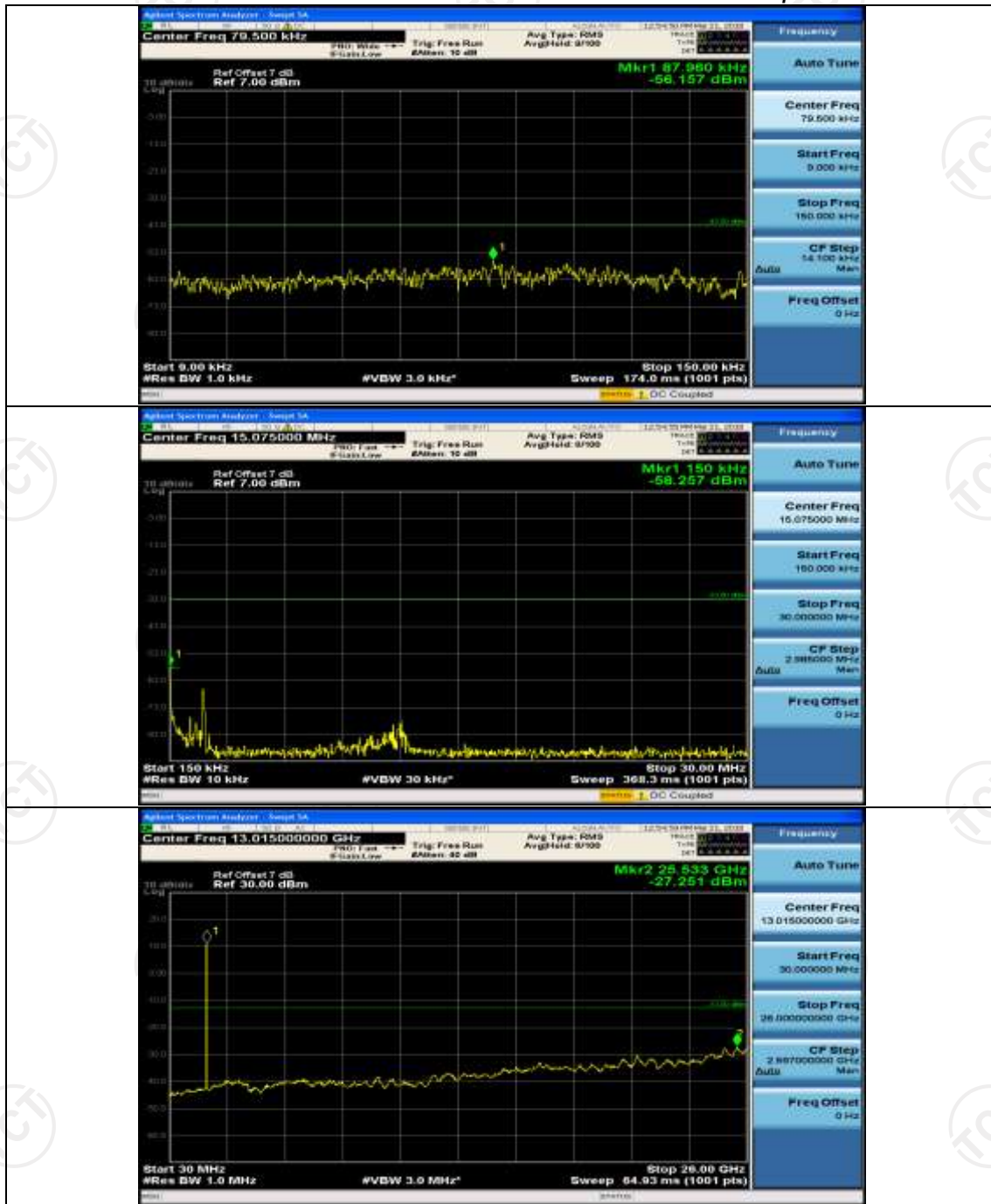


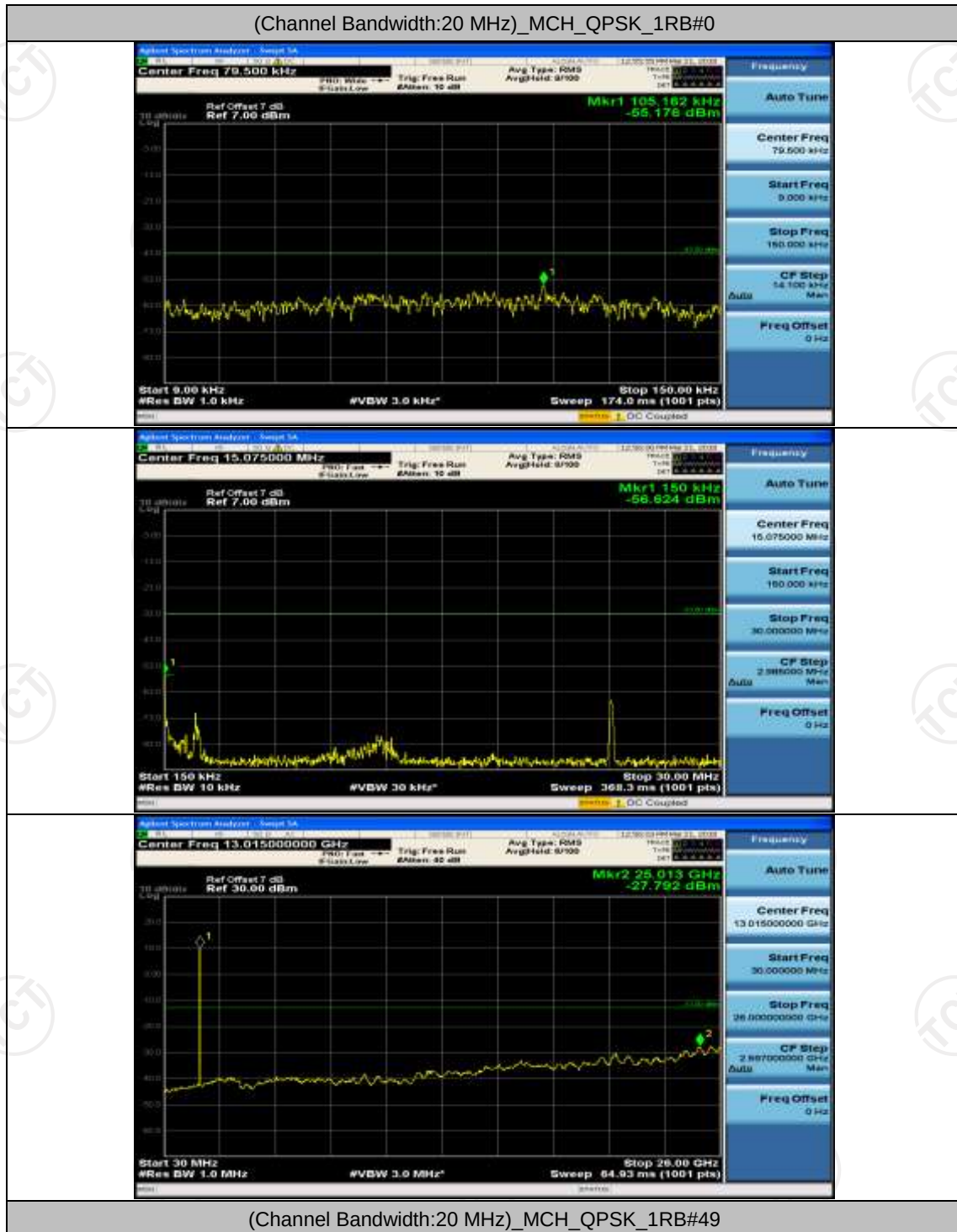


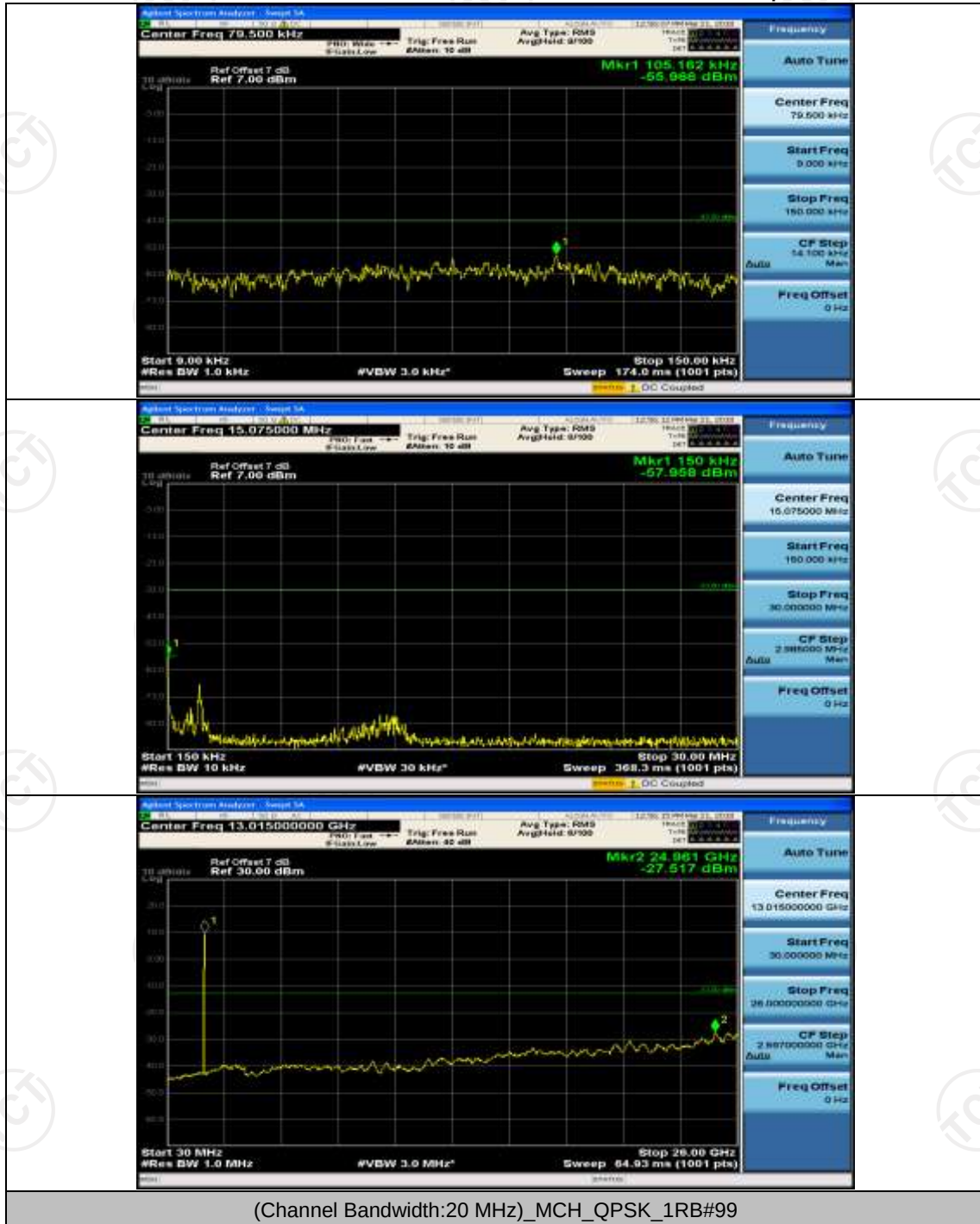
Channel Bandwidth: 20 MHz

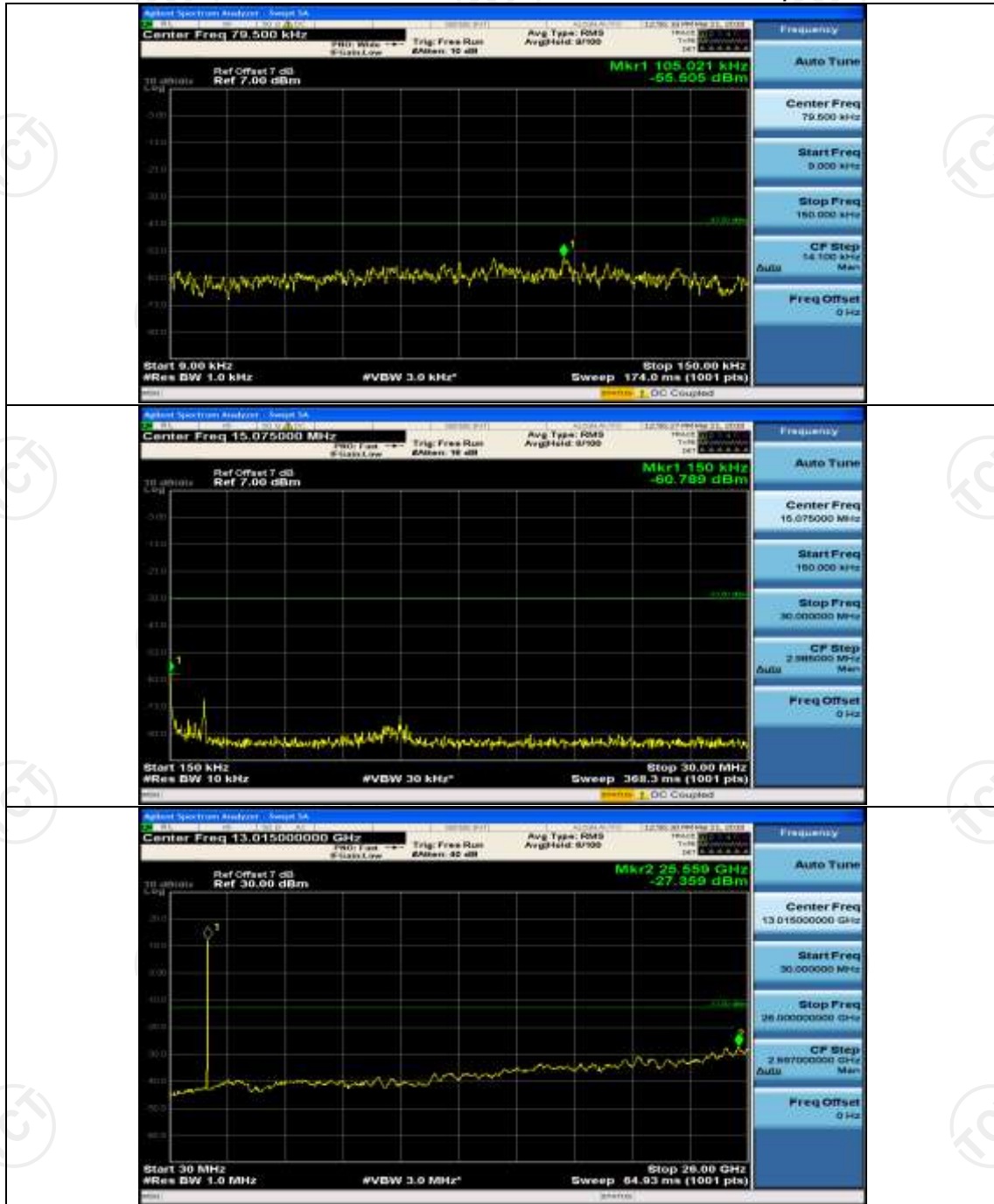


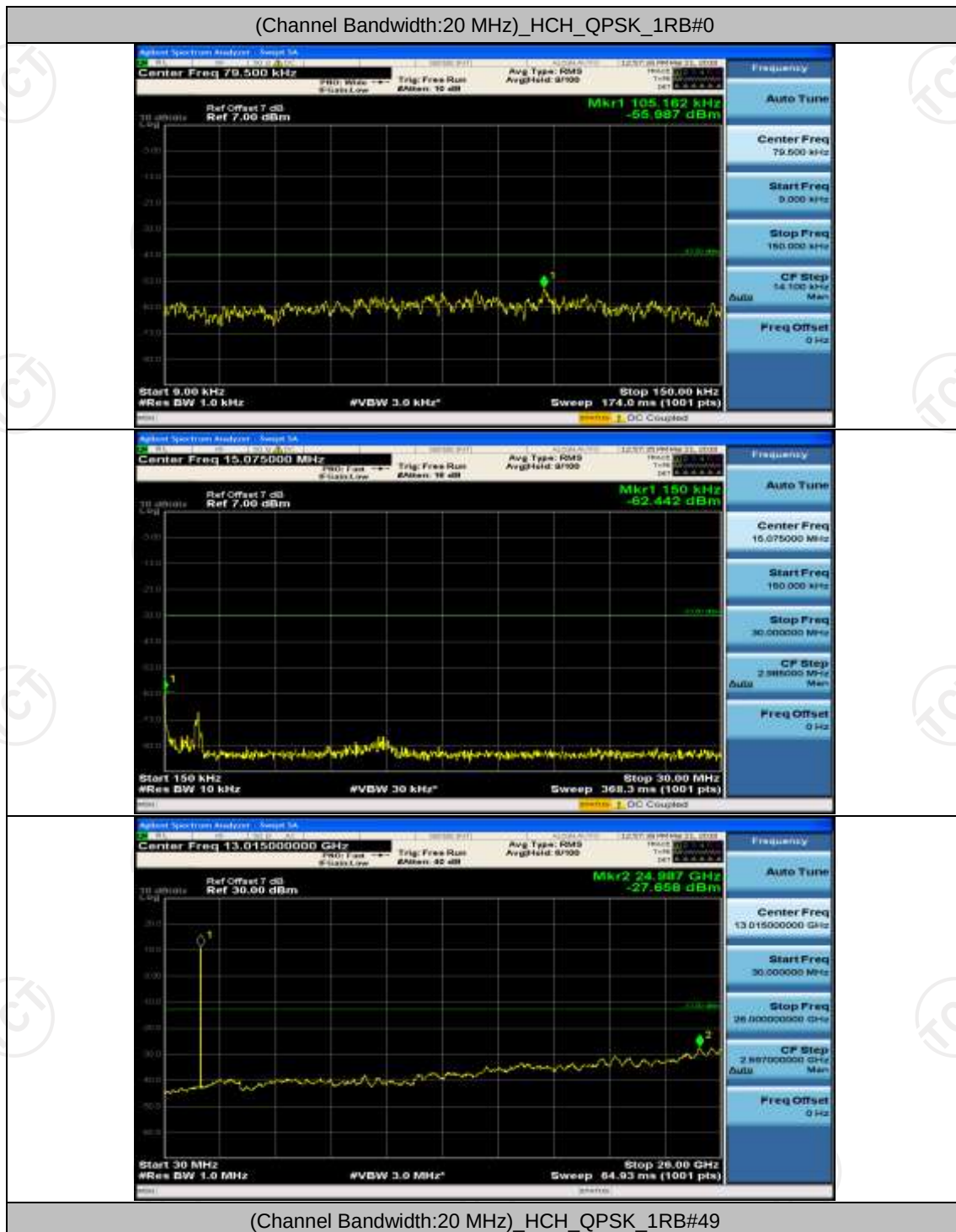


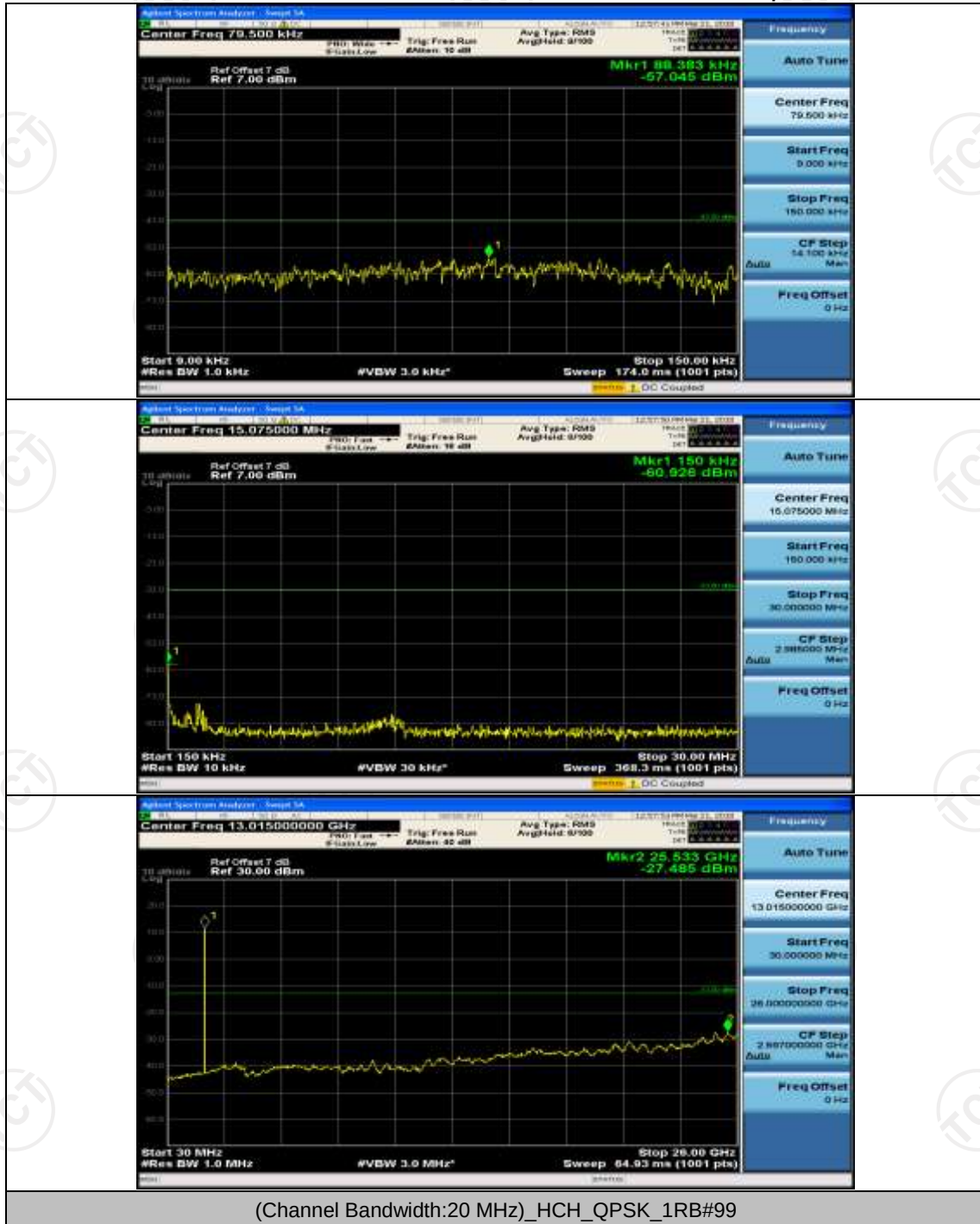


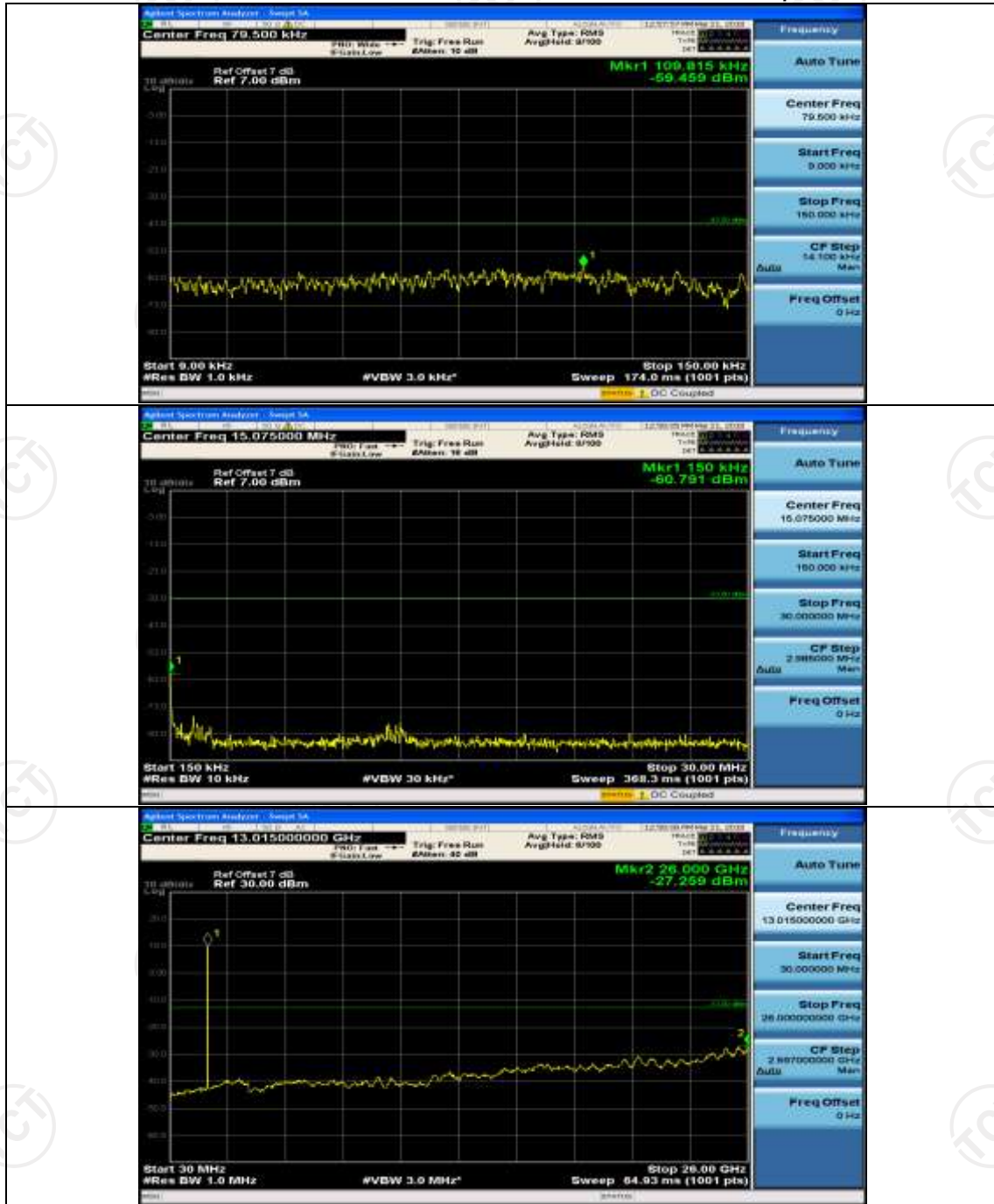


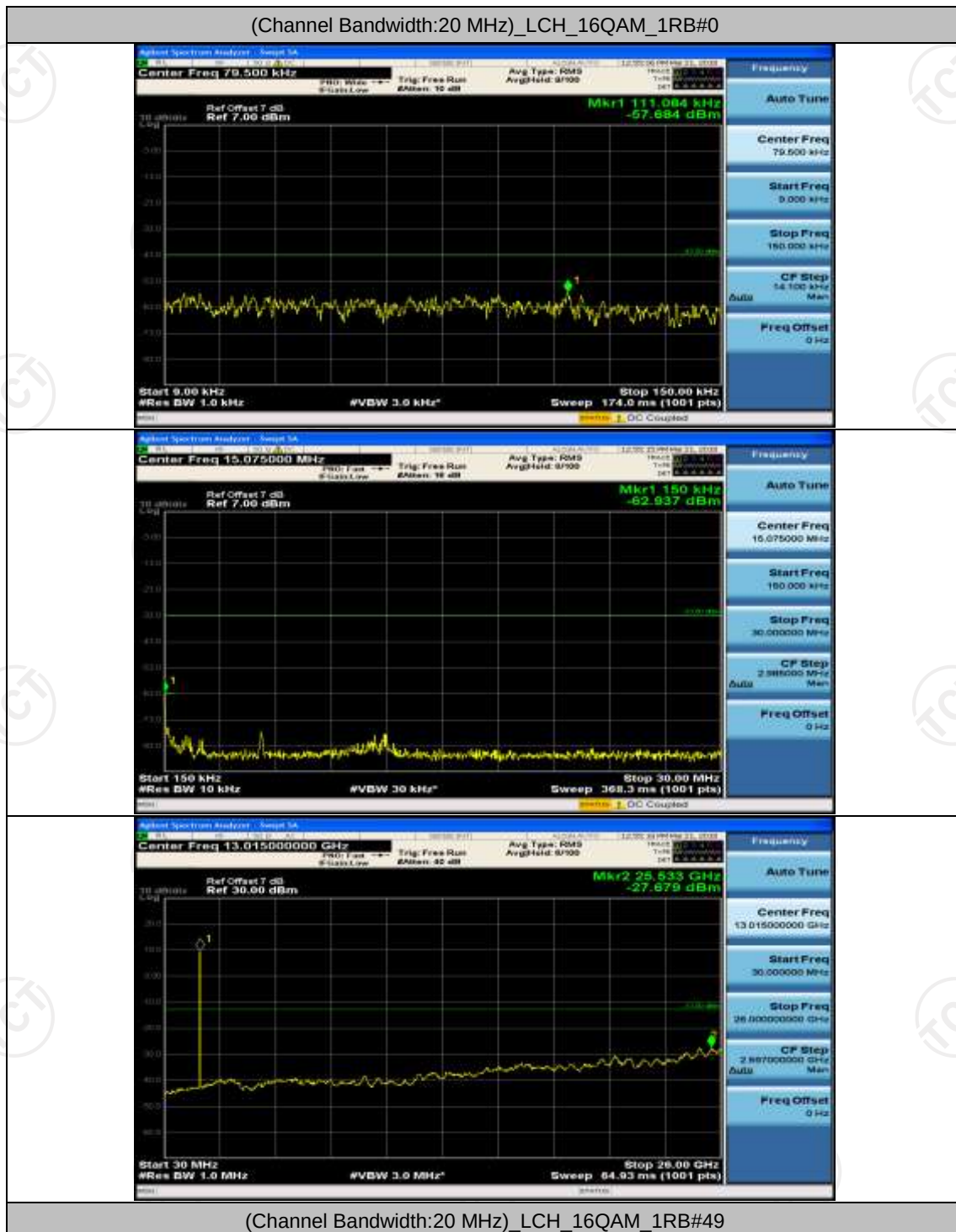


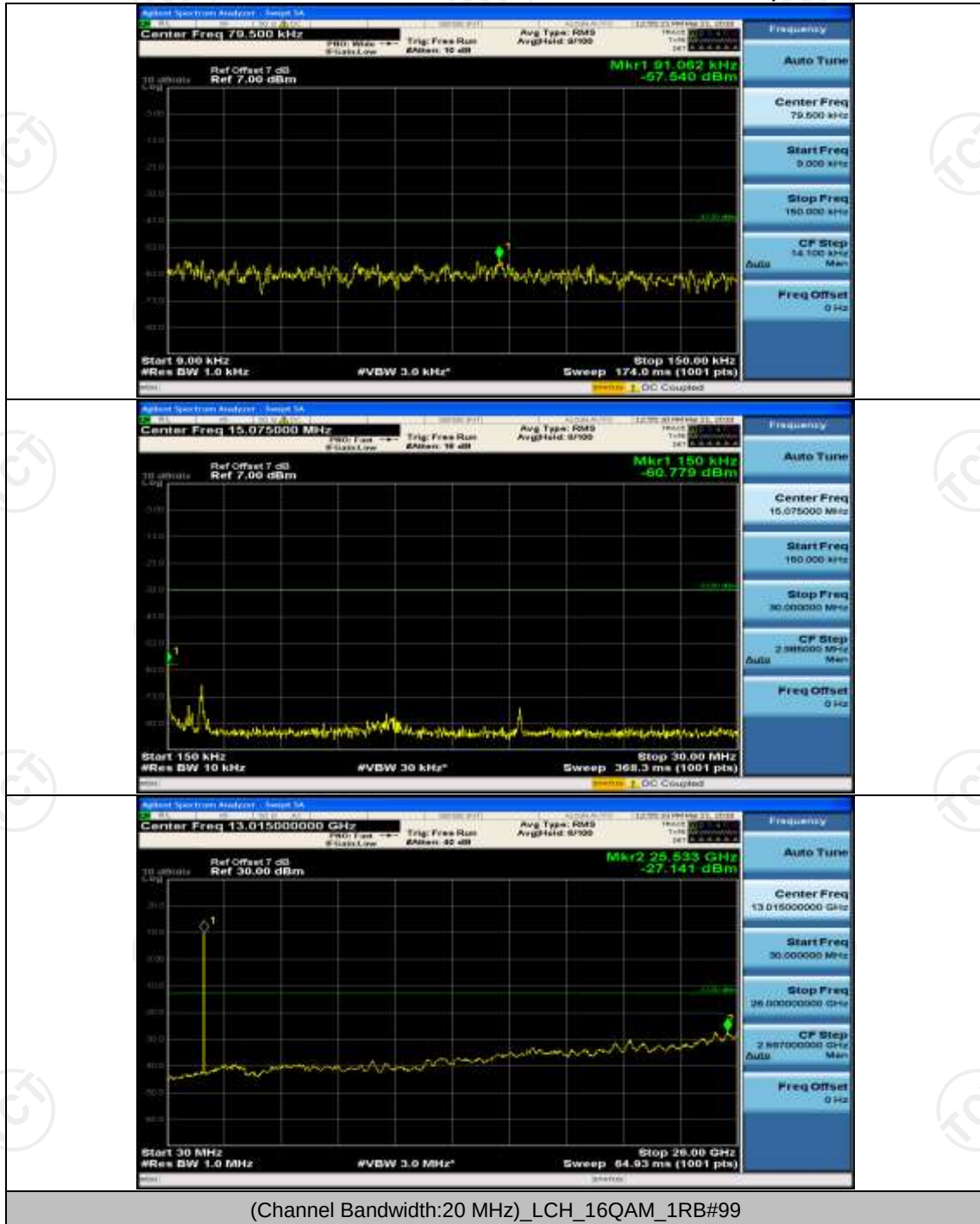


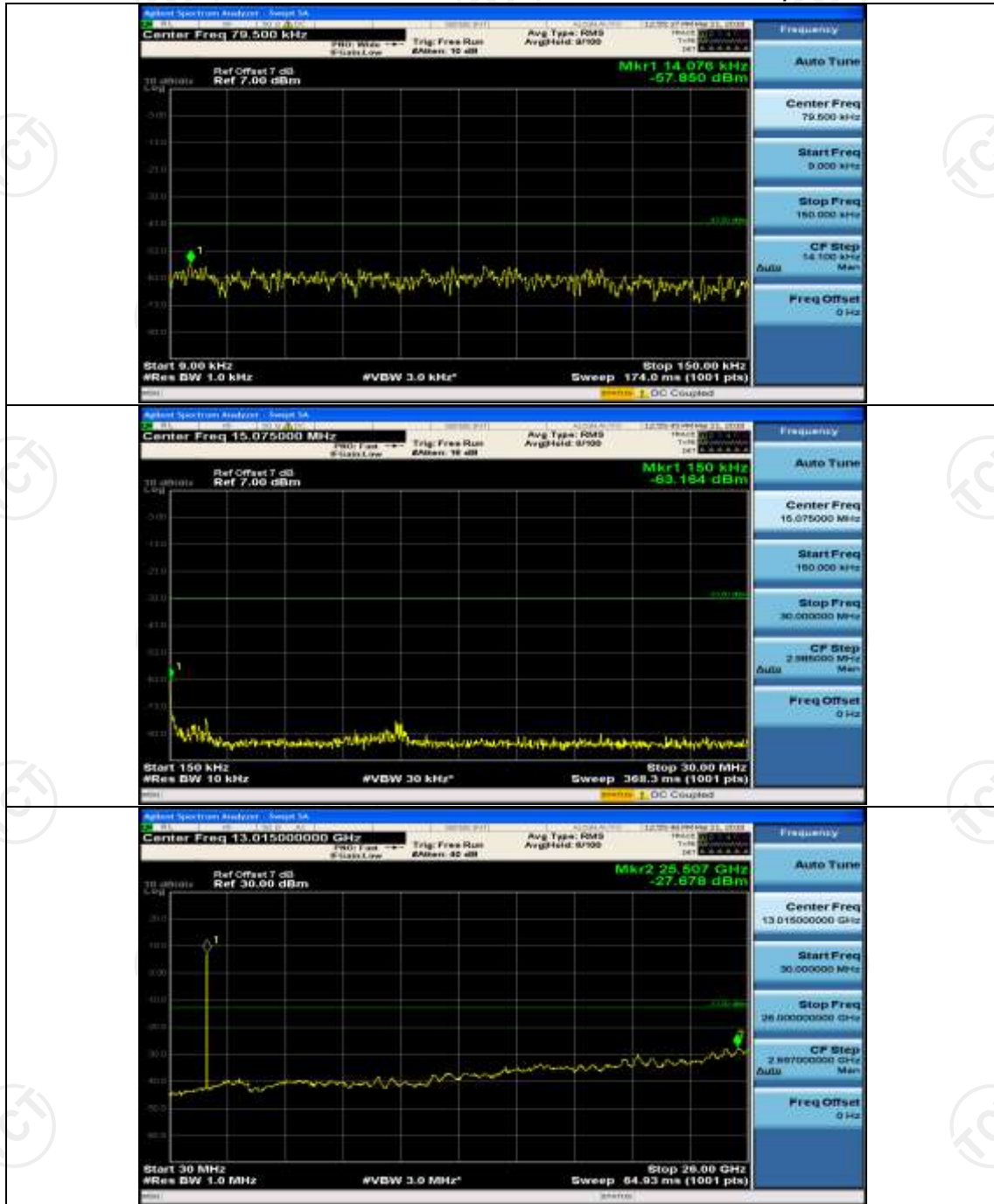




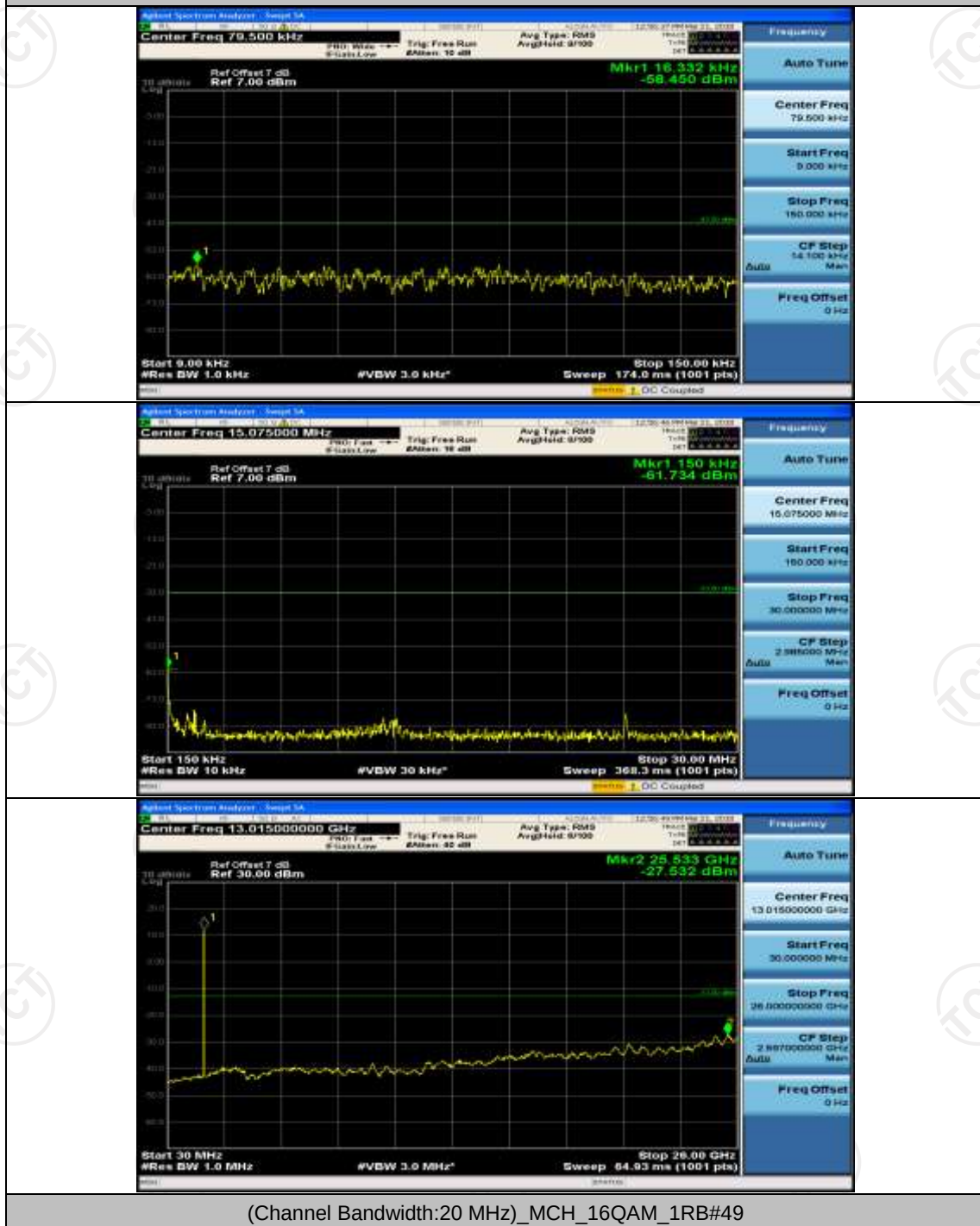




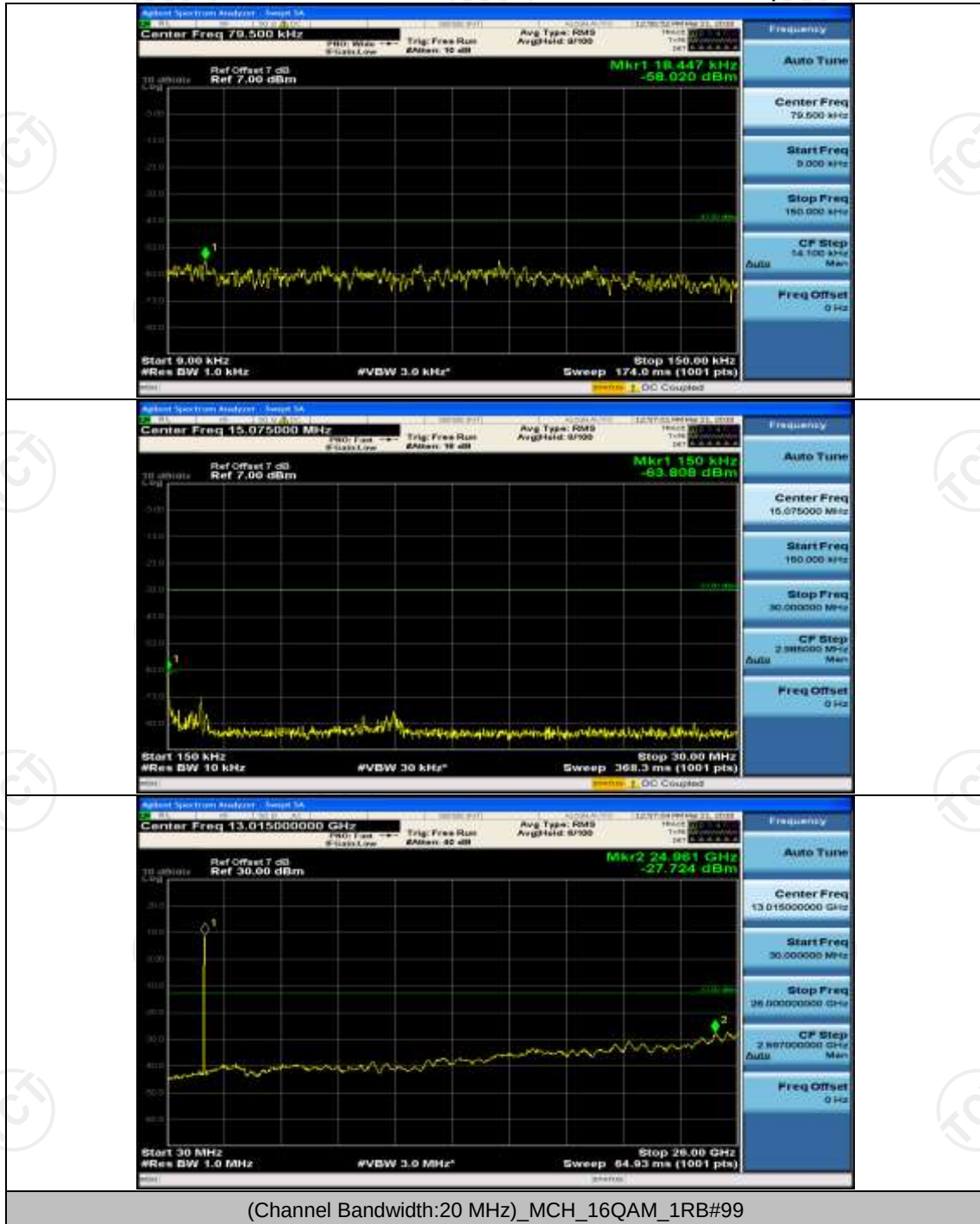


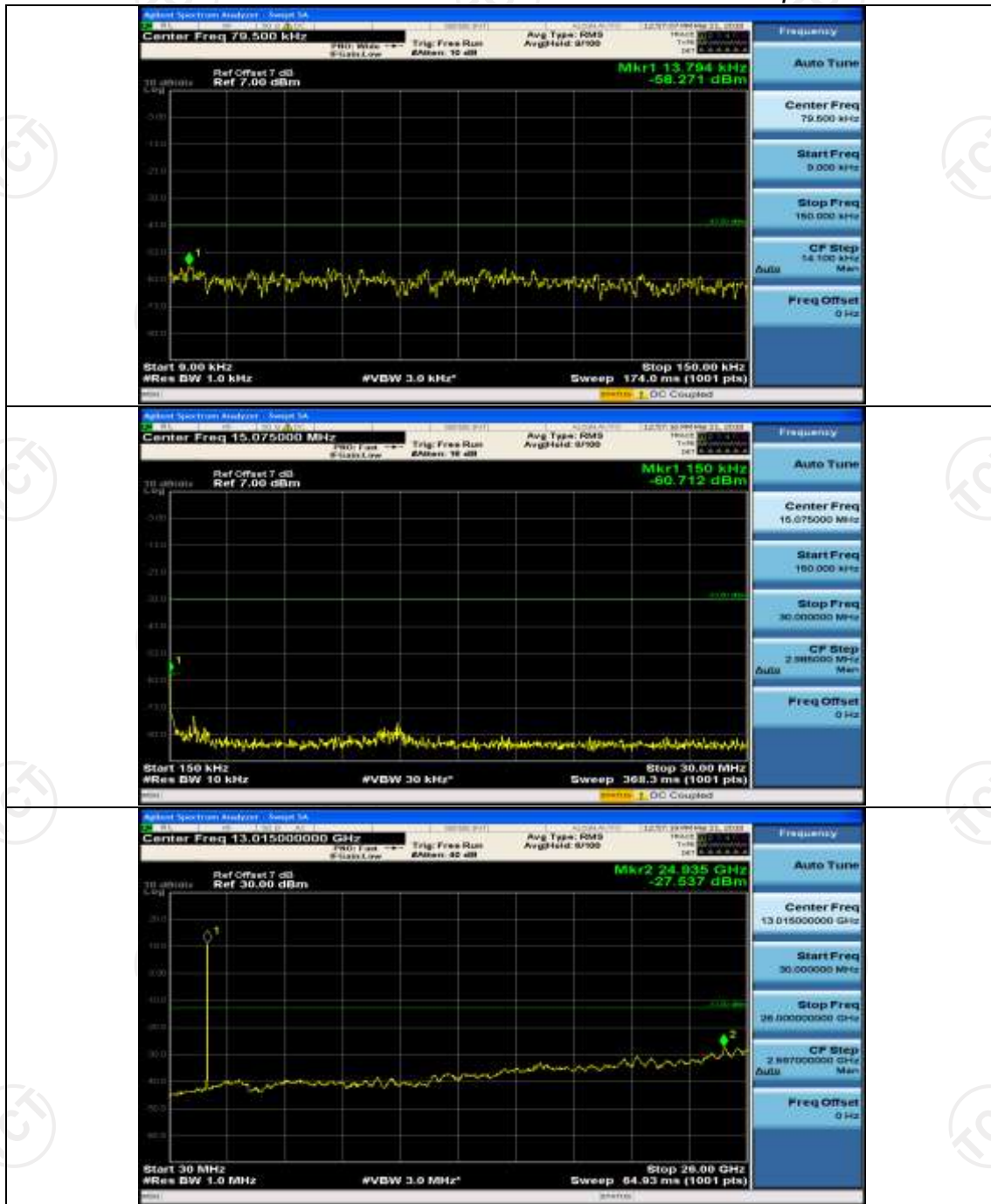


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

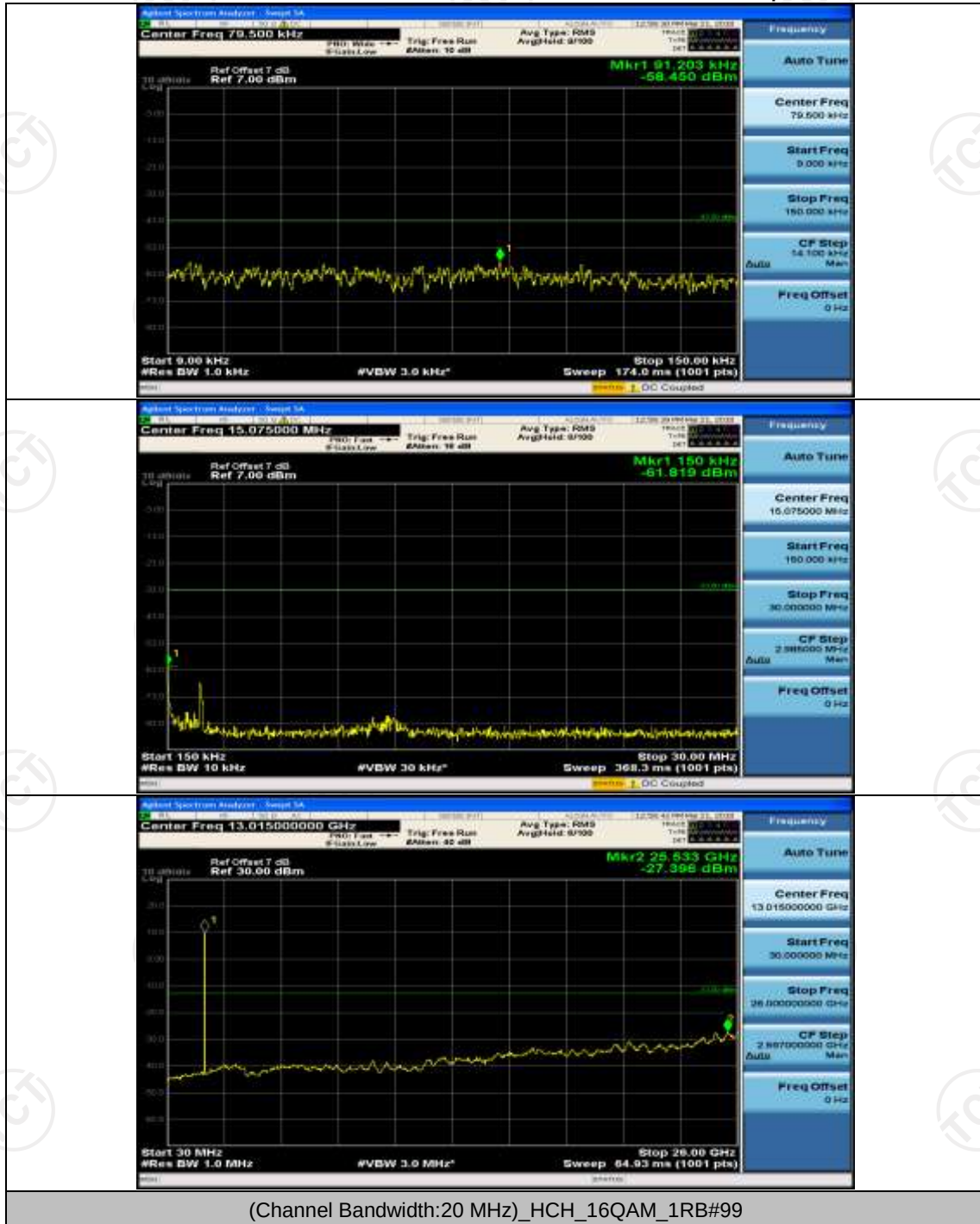


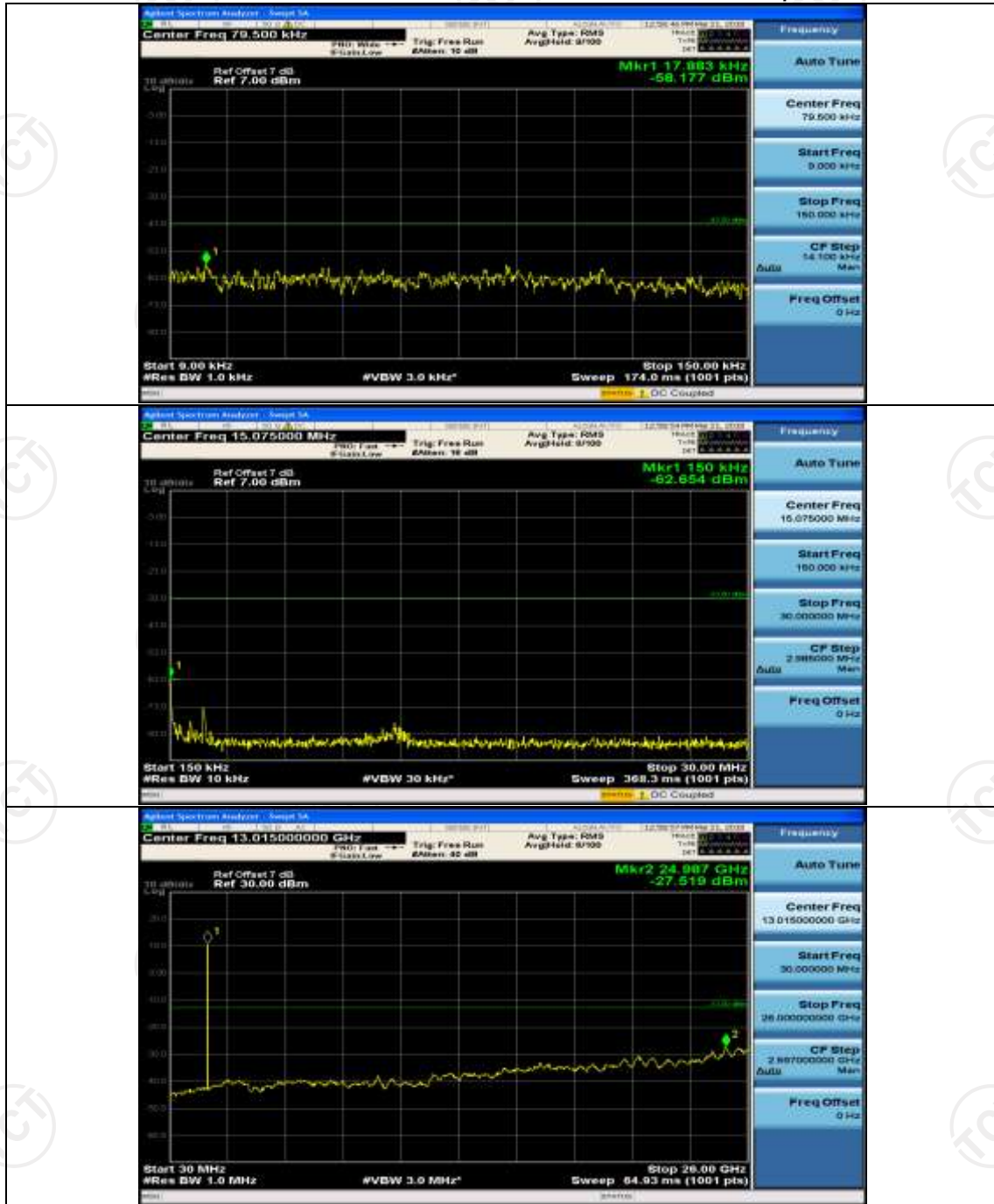


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	3.4	25	-0.001128	± 2.5	PASS
		3.7	25	0.001355	± 2.5	PASS
		4.2	25	-0.000436	± 2.5	PASS
	MCH	3.5	25	-0.001292	± 2.5	PASS
		3.7	25	-0.000116	± 2.5	PASS
		4.2	25	0.001415	± 2.5	PASS
	HCH	3.5	25	0.000749	± 2.5	PASS
		3.7	25	-0.001631	± 2.5	PASS
		4.2	25	0.000212	± 2.5	PASS
16QAM	LCH	3.5	25	-0.00472	± 2.5	PASS
		3.7	25	0.000594	± 2.5	PASS
		4.2	25	-0.001263	± 2.5	PASS
	MCH	3.5	25	-0.000484	± 2.5	PASS
		3.7	25	0.000000	± 2.5	PASS
		4.2	25	-0.001032	± 2.5	PASS
	HCH	3.5	25	-0.000578	± 2.5	PASS
		3.7	25	-0.001631	± 2.5	PASS
		4.2	25	-0.000791	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	0.000343	± 2.5	PASS
		3.7	-20	-0.000067	± 2.5	PASS
		3.7	-10	-0.000033	± 2.5	PASS
		3.7	0	0.000159	± 2.5	PASS
		3.7	10	-0.000192	± 2.5	PASS
		3.7	20	0.001045	± 2.5	PASS
		3.7	30	0.000452	± 2.5	PASS
		3.7	40	0.000761	± 2.5	PASS
		3.7	50	0.001672	± 2.5	PASS
	MCH	3.7	-30	0.000264	± 2.5	PASS
		3.7	-20	0.000074	± 2.5	PASS
		3.7	-10	-0.000132	± 2.5	PASS
		3.7	0	0.000132	± 2.5	PASS
		3.7	10	-0.000531	± 2.5	PASS

		3.7	20	0.000091	± 2.5	PASS
		3.7	30	-0.001181	± 2.5	PASS
		3.7	40	-0.001214	± 2.5	PASS
		3.7	50	-0.002395	± 2.5	PASS
	HCH	3.7	-30	0.000073	± 2.5	PASS
		3.7	-20	0.000612	± 2.5	PASS
		3.7	-10	-0.000057	± 2.5	PASS
		3.7	0	0.000457	± 2.5	PASS
		3.7	10	0.000336	± 2.5	PASS
		3.7	20	-0.001484	± 2.5	PASS
		3.7	30	-0.000856	± 2.5	PASS
		3.7	40	-0.001541	± 2.5	PASS
		3.7	50	-0.001761	± 2.5	PASS
16QAM	LCH	3.7	-30	0.001270	± 2.5	PASS
		3.7	-20	0.000351	± 2.5	PASS
		3.7	-10	0.000618	± 2.5	PASS
		3.7	0	0.000393	± 2.5	PASS
		3.7	10	-0.001340	± 2.5	PASS
		3.7	20	0.000493	± 2.5	PASS
		3.7	30	0.001497	± 2.5	PASS
		3.7	40	0.001187	± 2.5	PASS
		3.7	50	0.000945	± 2.5	PASS
	MCH	3.7	-30	0.000173	± 2.5	PASS
		3.7	-20	0.000272	± 2.5	PASS
		3.7	-10	-0.000561	± 2.5	PASS
		3.7	0	-0.001214	± 2.5	PASS
		3.7	10	-0.000762	± 2.5	PASS
		3.7	20	-0.000017	± 2.5	PASS
		3.7	30	0.000289	± 2.5	PASS
		3.7	40	0.000041	± 2.5	PASS
		3.7	50	0.000297	± 2.5	PASS
	HCH	3.7	-30	-0.002106	± 2.5	PASS
		3.7	-20	-0.001861	± 2.5	PASS
		3.7	-10	-0.003306	± 2.5	PASS
		3.7	0	-0.001469	± 2.5	PASS
		3.7	10	-0.000441	± 2.5	PASS
		3.7	20	-0.001704	± 2.5	PASS
		3.7	30	-0.002006	± 2.5	PASS
		3.7	40	-0.001476	± 2.5	PASS
		3.7	50	-0.000946	± 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 :	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)		
3421.4	Vertical	-40.05	-13.00	PASS
5132.1	V	-47.51		
-	V	-		
3421.4	Horizontal	-41.90		
5132.1	H	-46.18		
-	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)		
3465	Vertical	-41.57	-13.00	PASS
5197.5	V	-47.34		
-	V	-		
3465	Horizontal	-40.24		
5197.5	H	-46.87		
-	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)		
3508.6	Vertical	-42.75	-13.00	PASS
5262.9	V	-46.80		
-	V	-		
3508.6	Horizontal	-40.32		
5262.9	H	-46.45		

-	H	-	
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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)		
3421.4	Vertical	-42.27	-13.00	PASS
5132.1	V	-47.75		
-	V	-		
3421.4	Horizontal	-40.29		
5132.1	H	-47.63		
-	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)		
3465	Vertical	-41.19	-13.00	PASS
5197.5	V	-47.34		
-	V	-		
3465	Horizontal	-41.85		
5197.5	H	-46.41		
-	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)		
3508.6	Vertical	-40.64	-13.00	PASS
5262.9	V	-48.32		
-	V	-		
3508.6	Horizontal	-41.68		
5262.9	H	-45.81		
-	H	-		

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