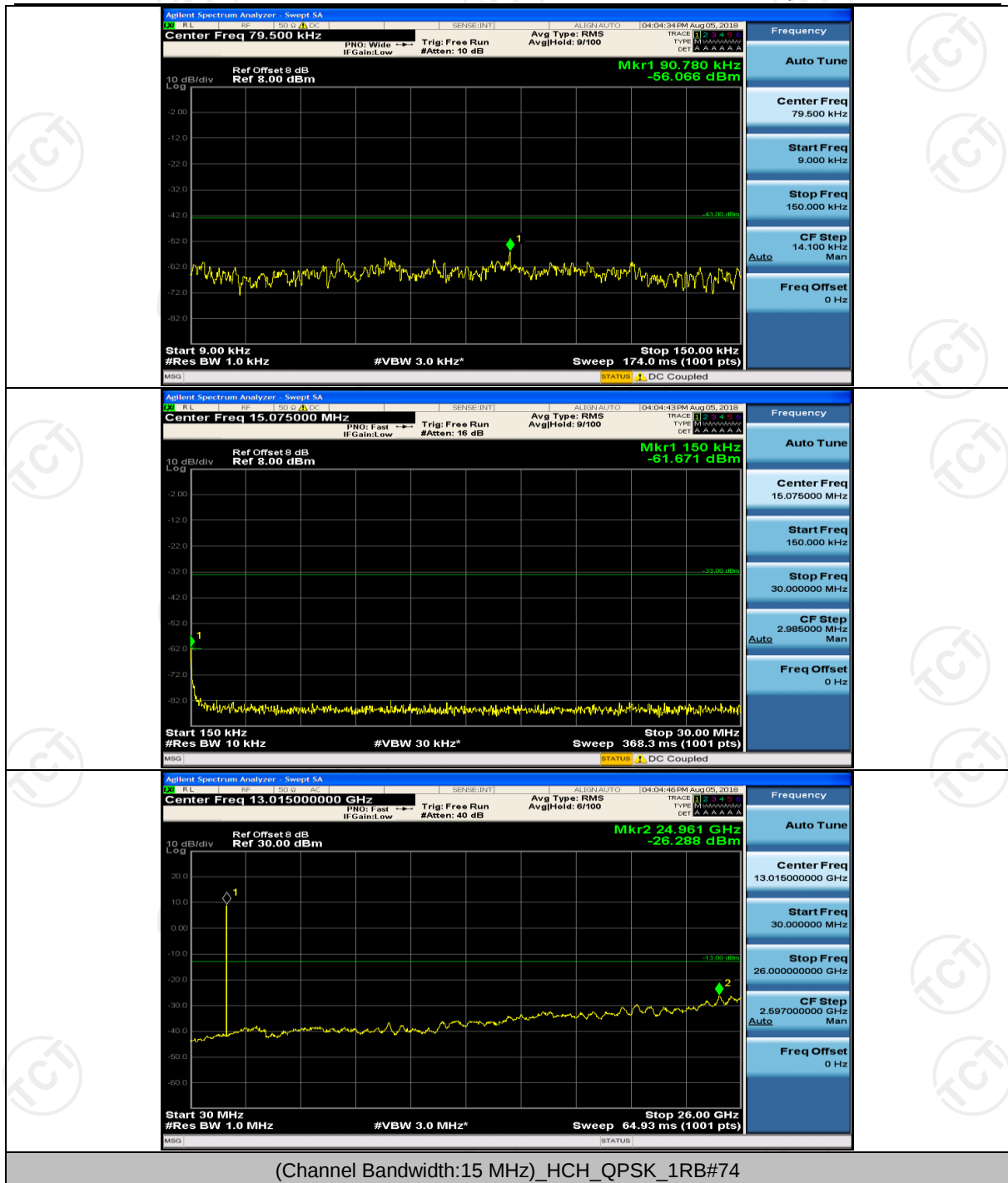
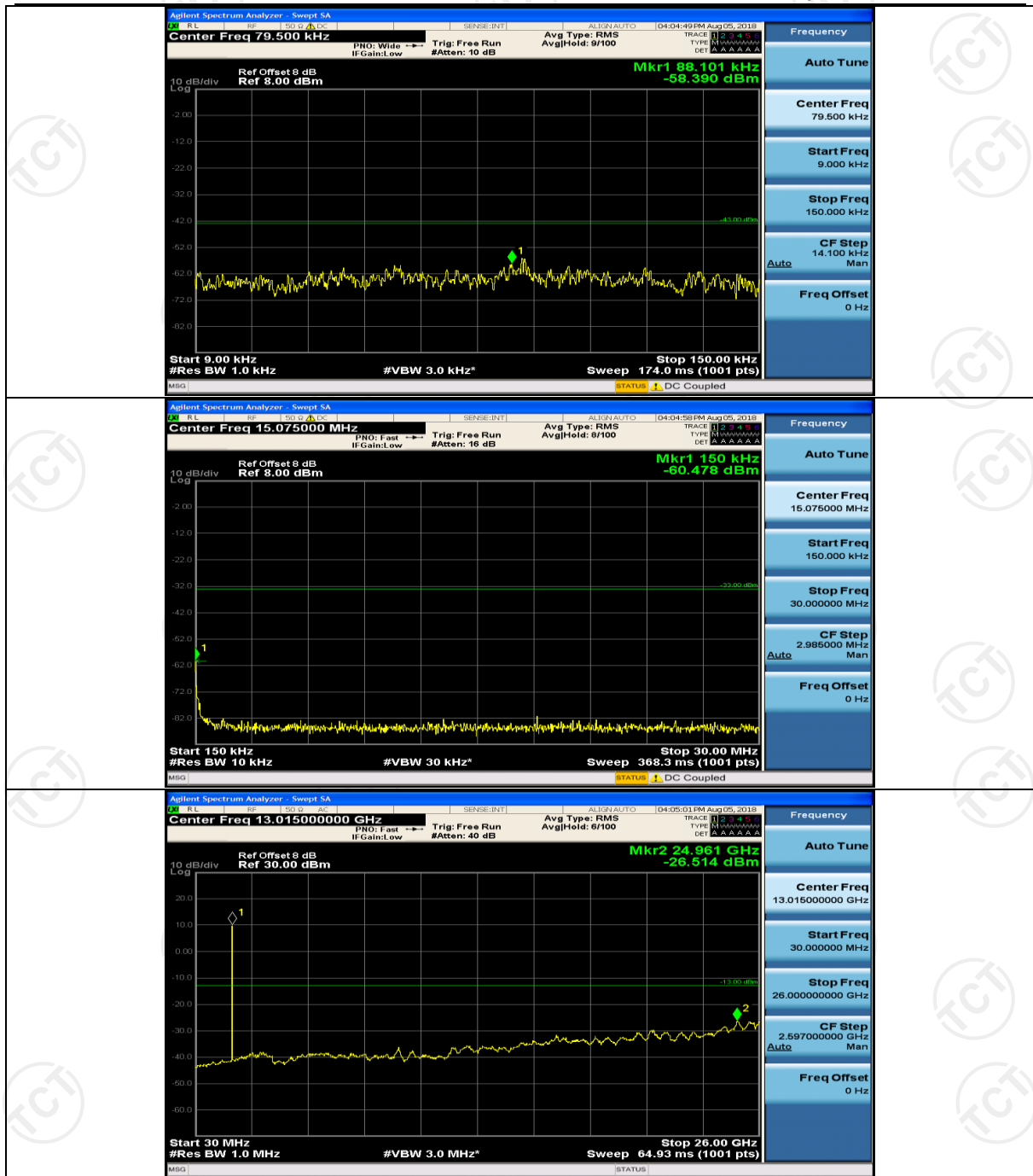
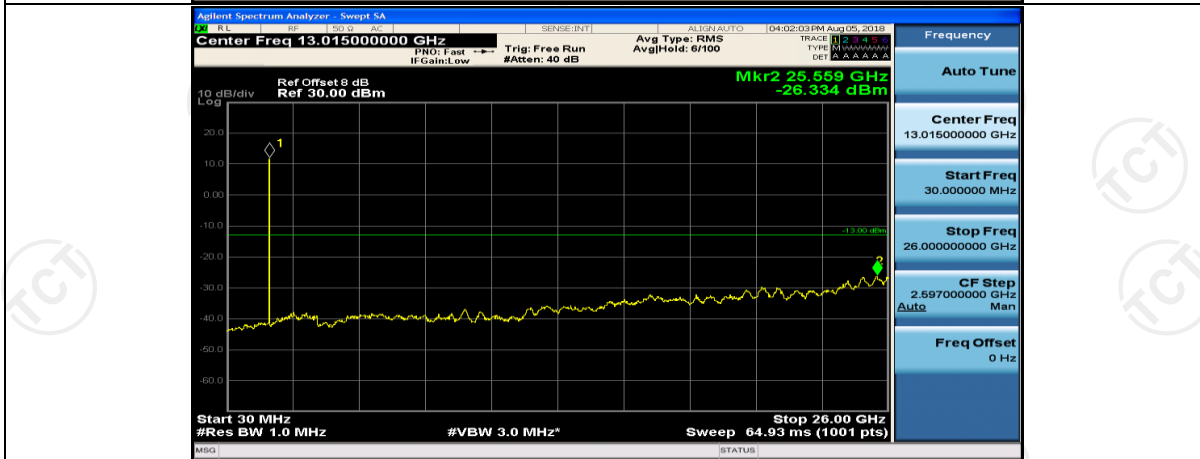
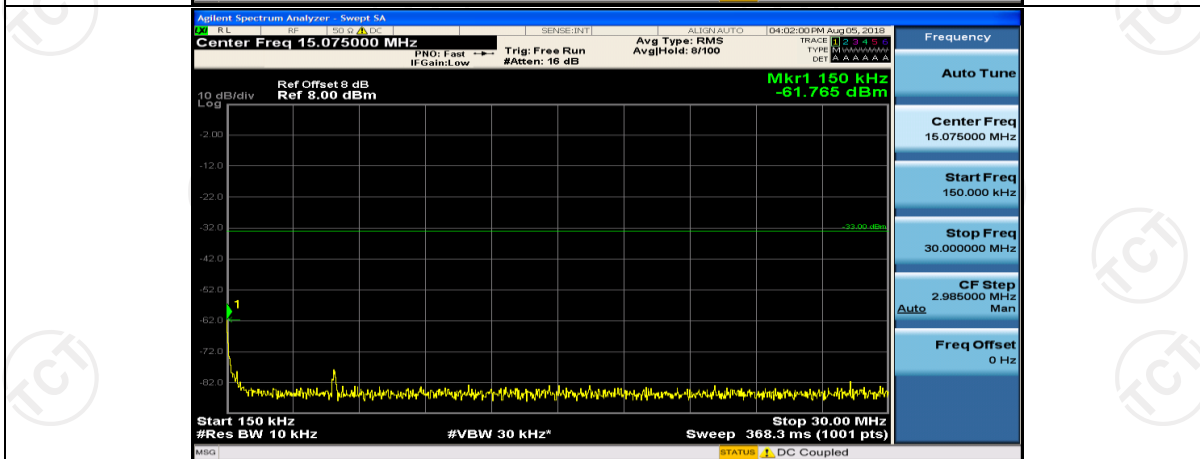
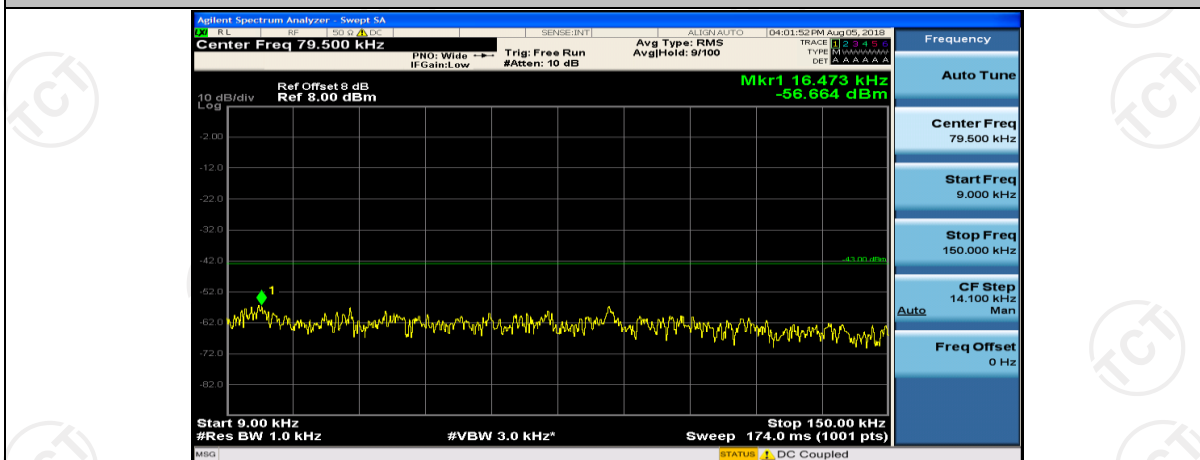


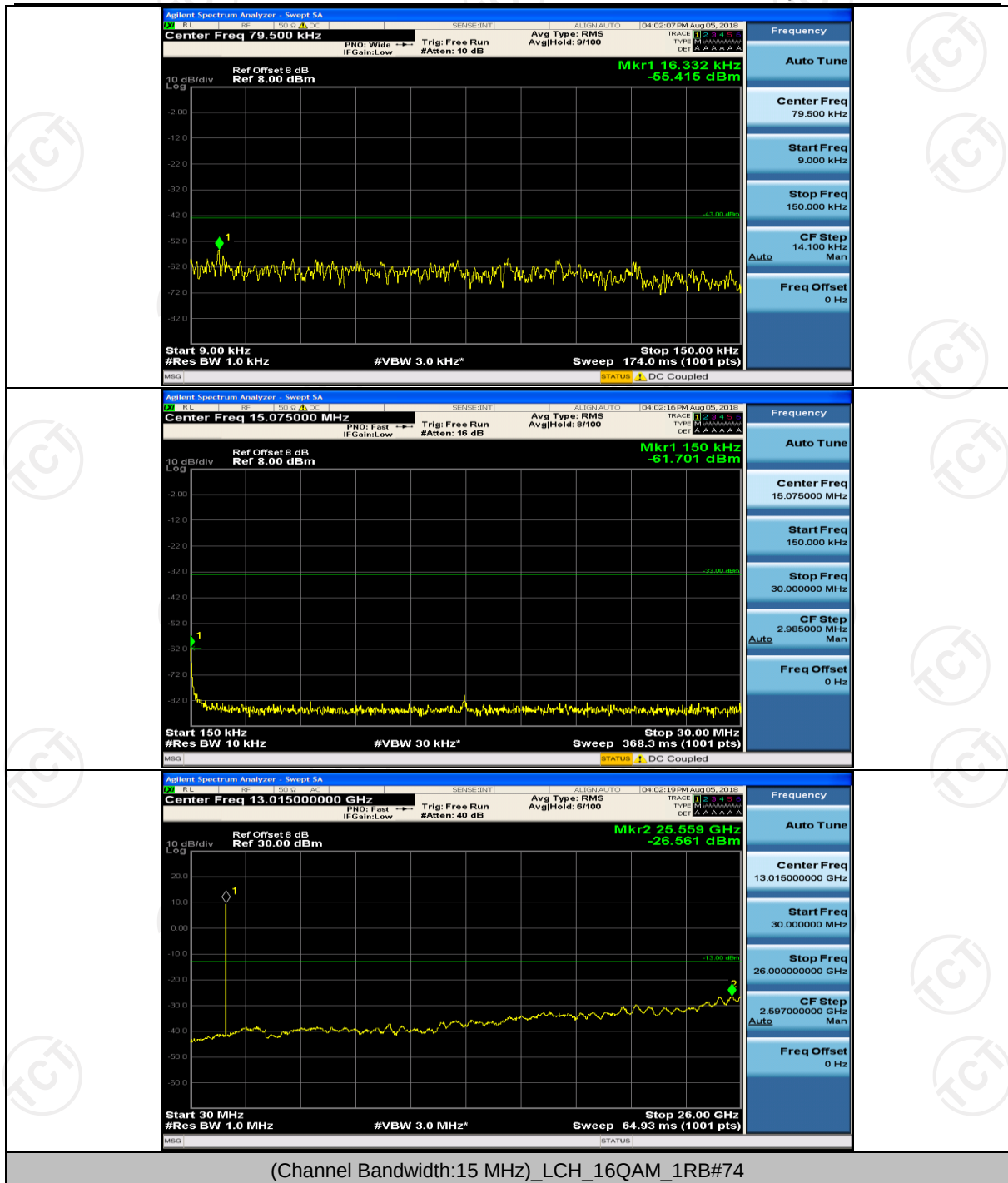


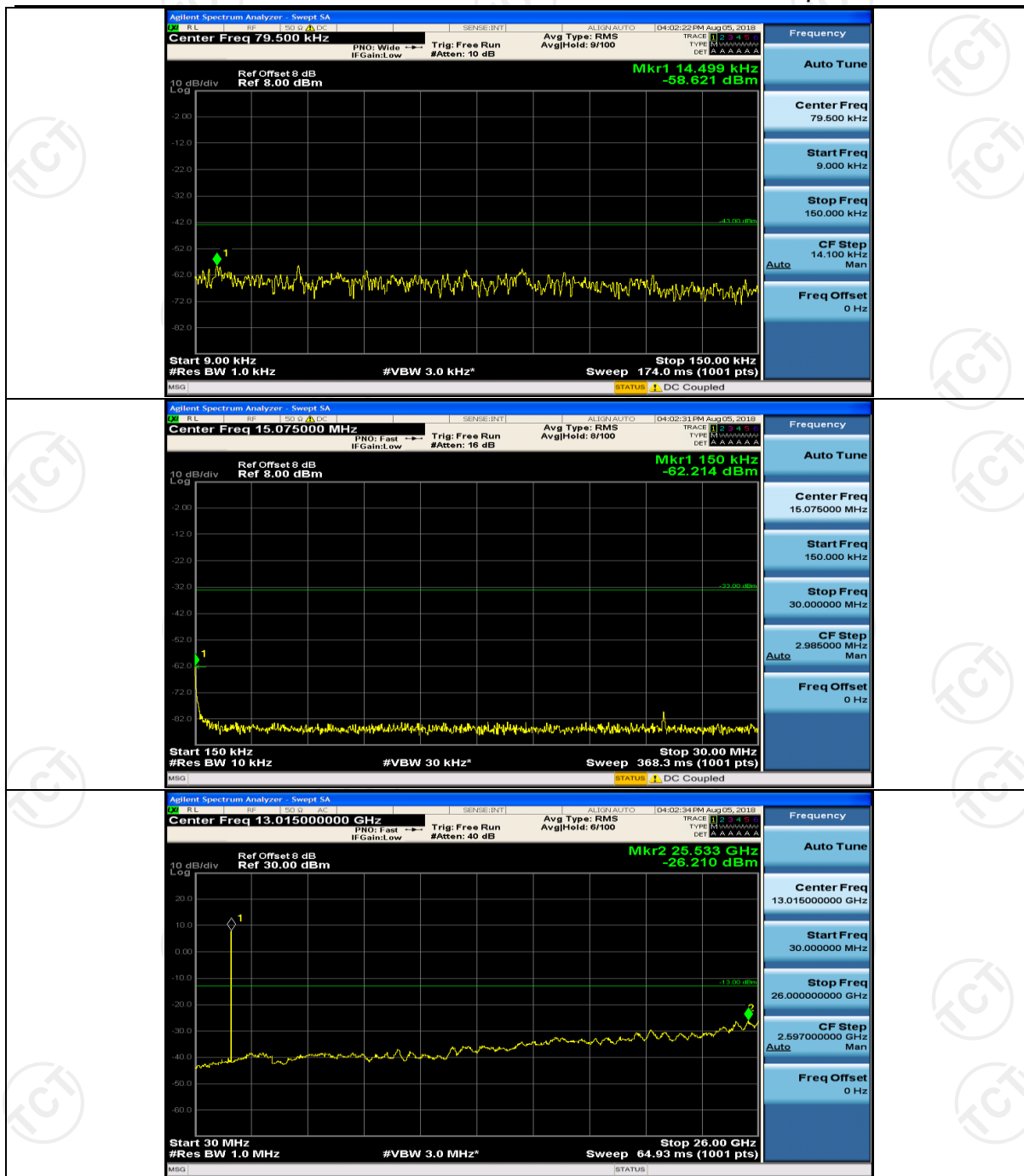


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

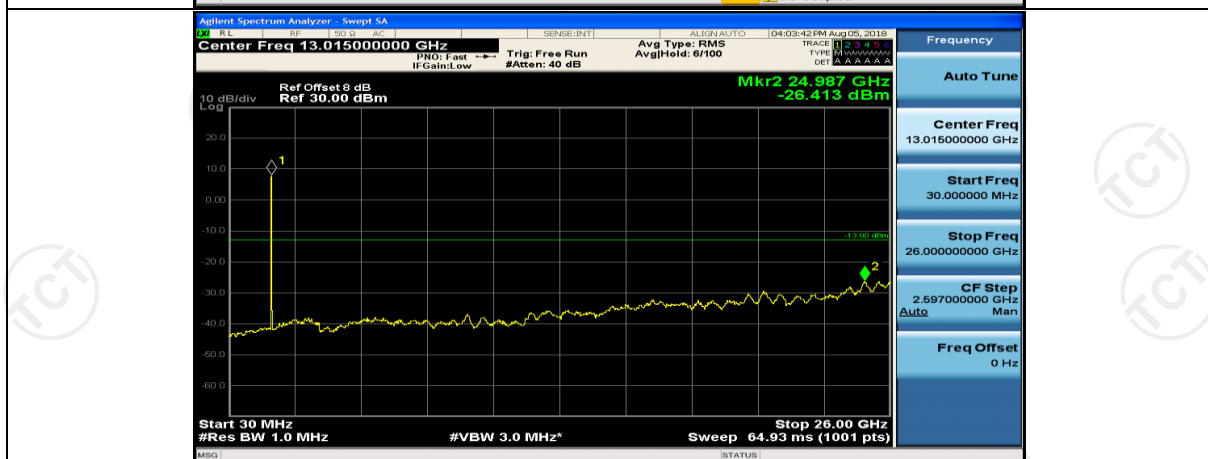
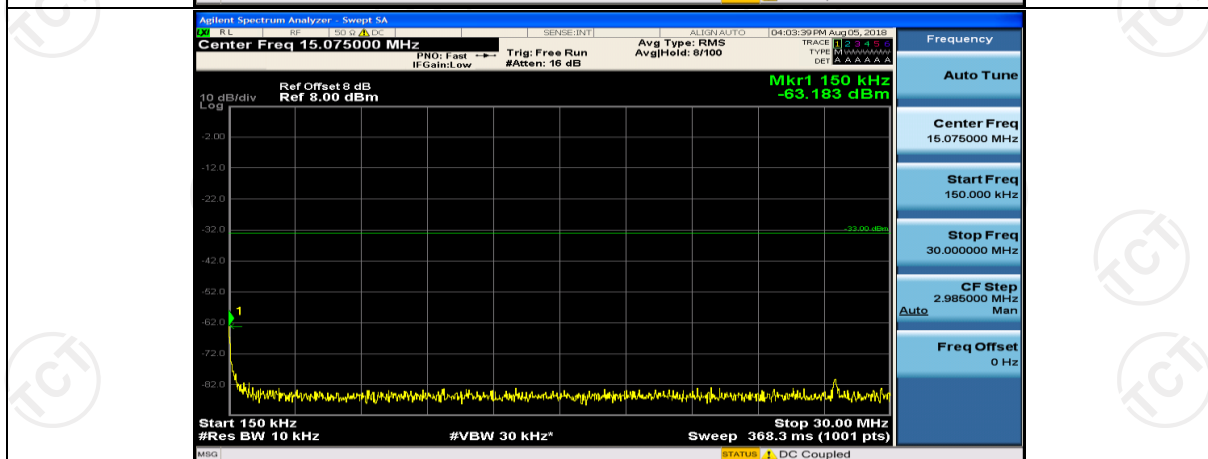
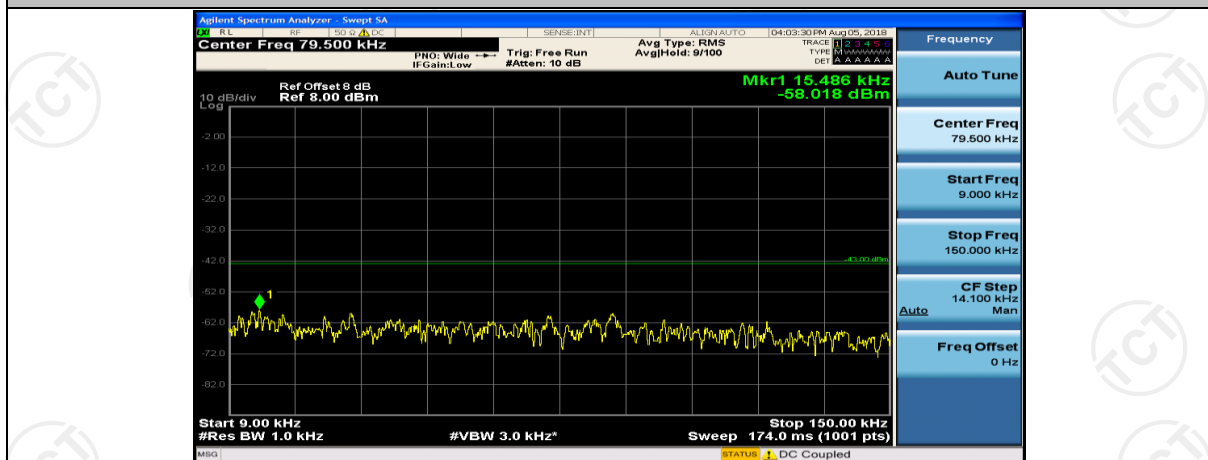


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

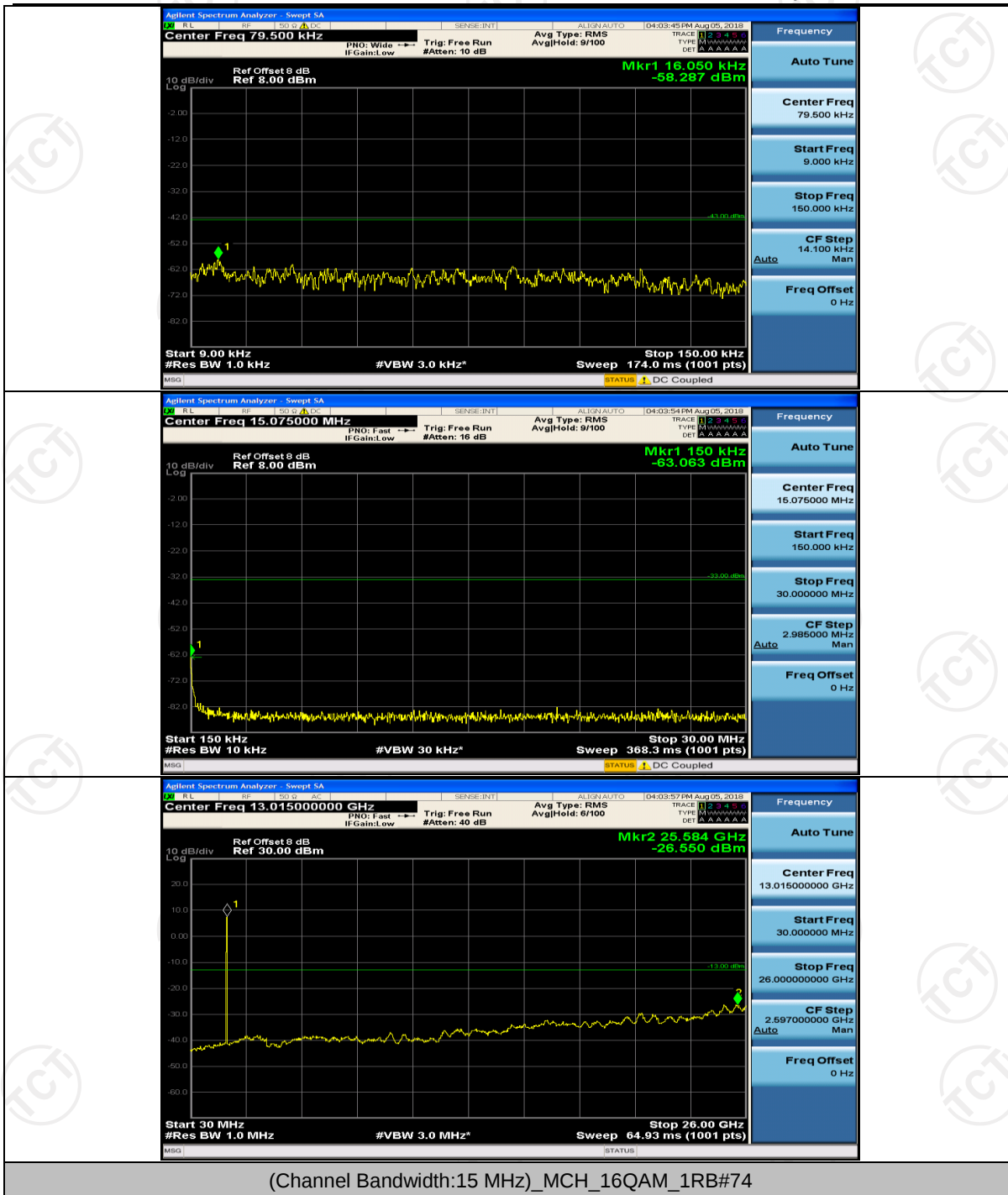


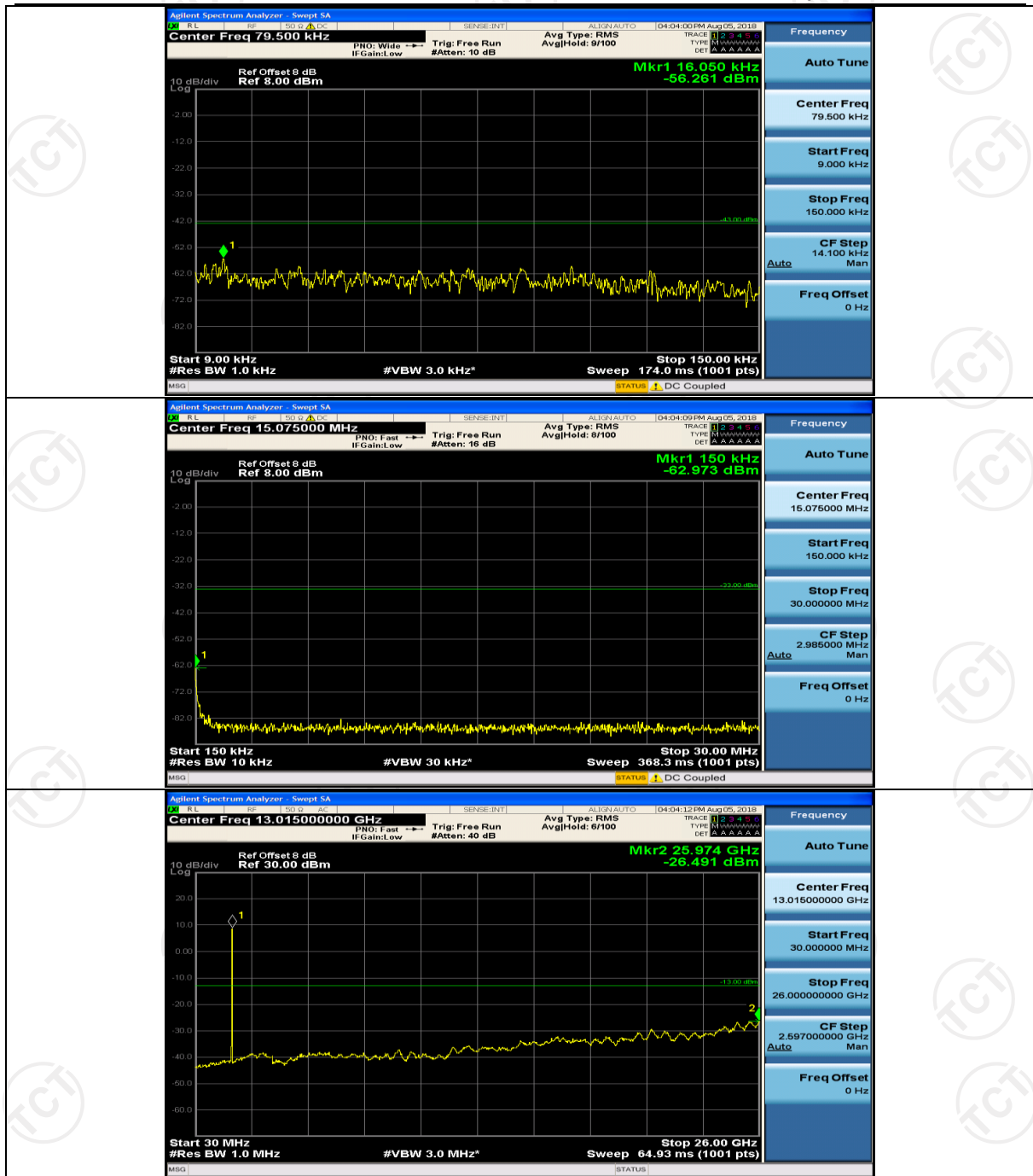


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

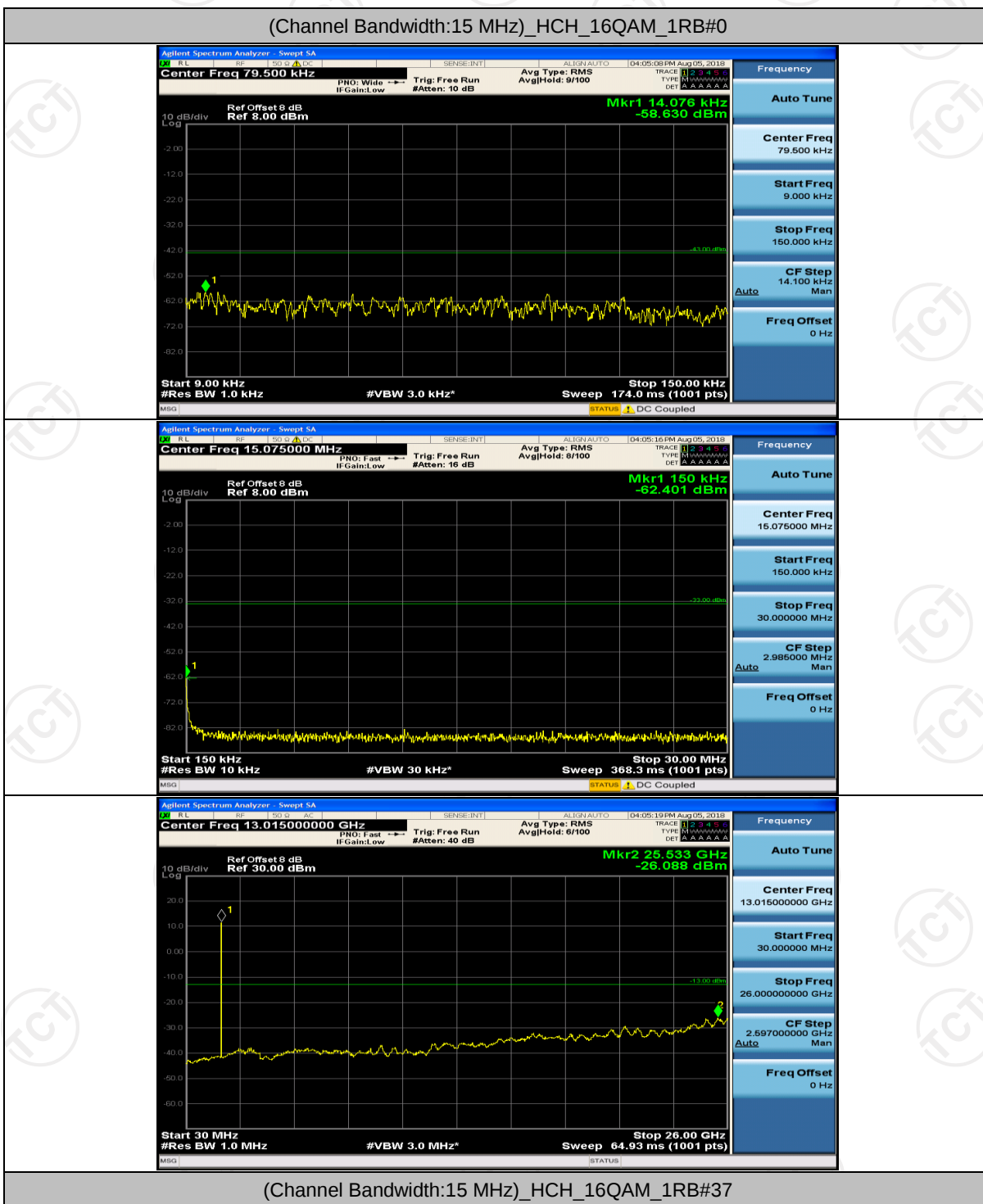


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

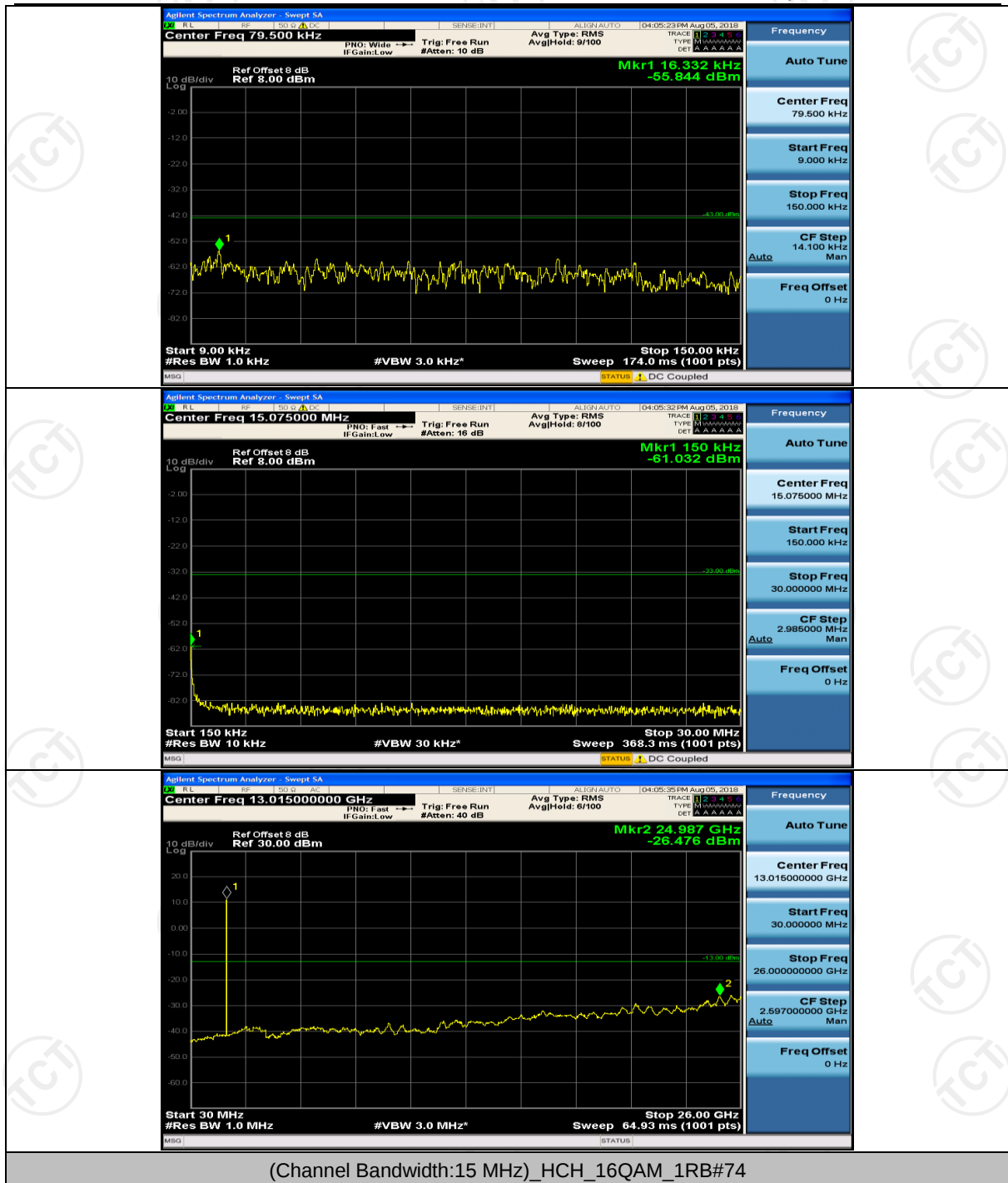


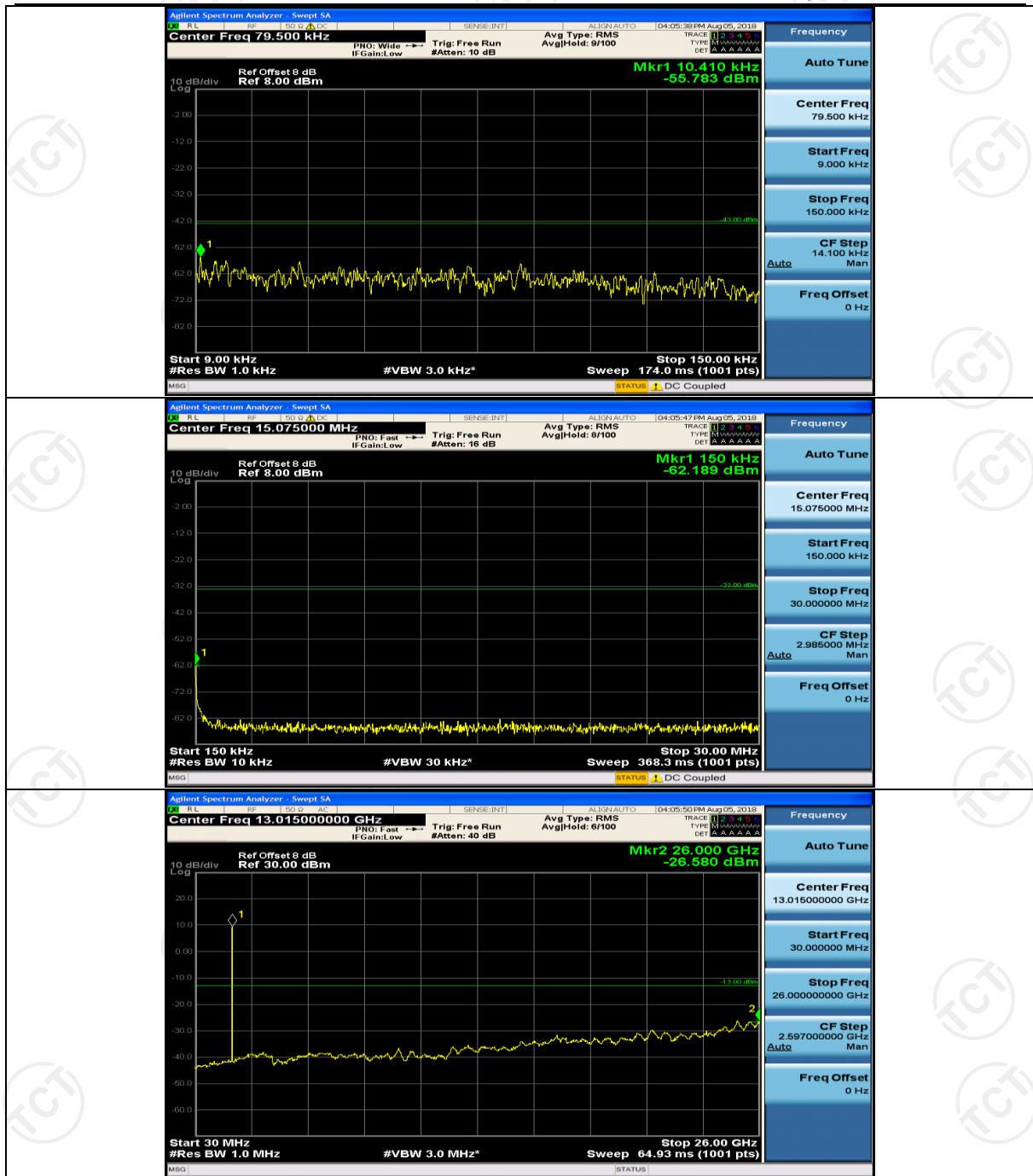


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

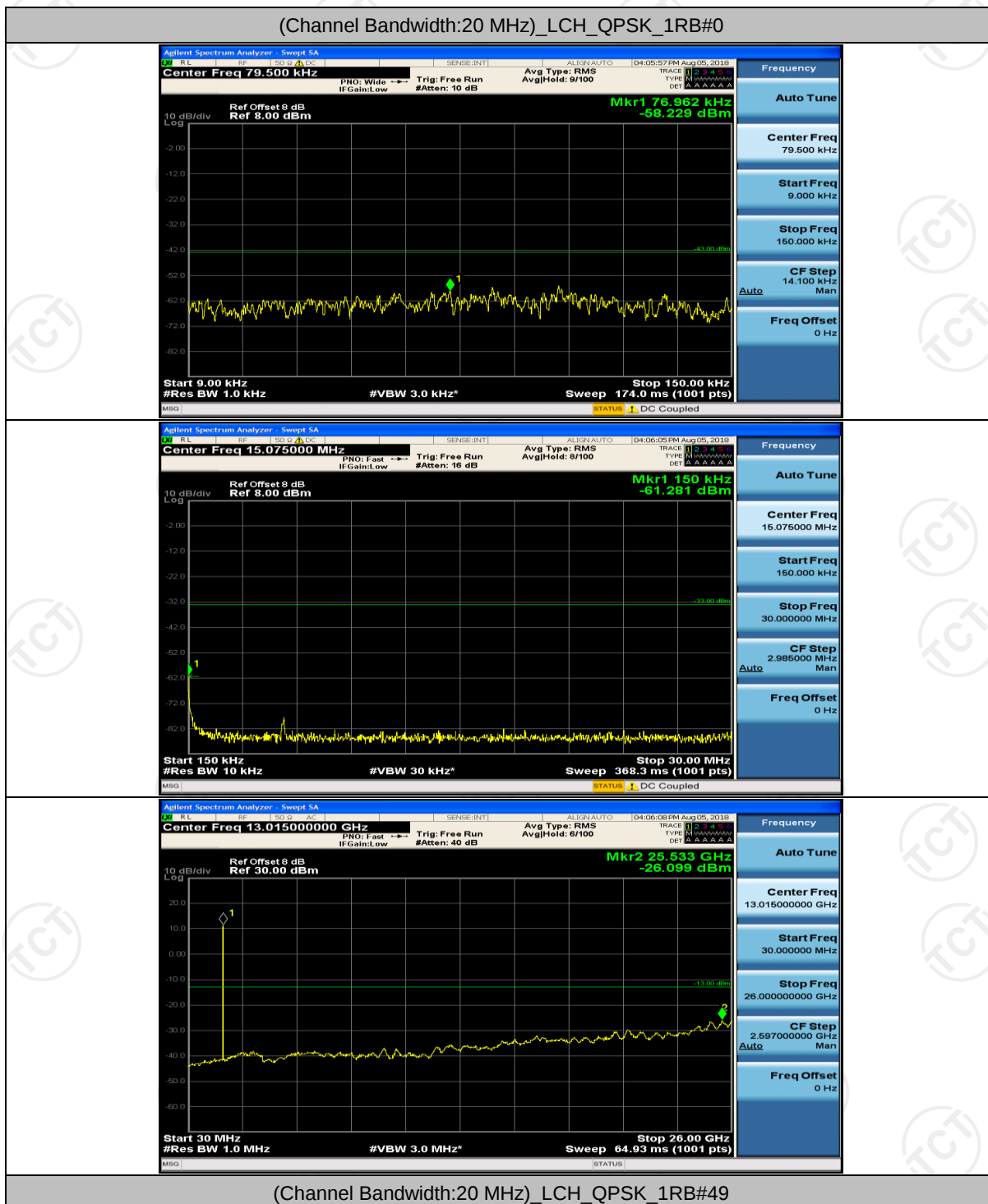


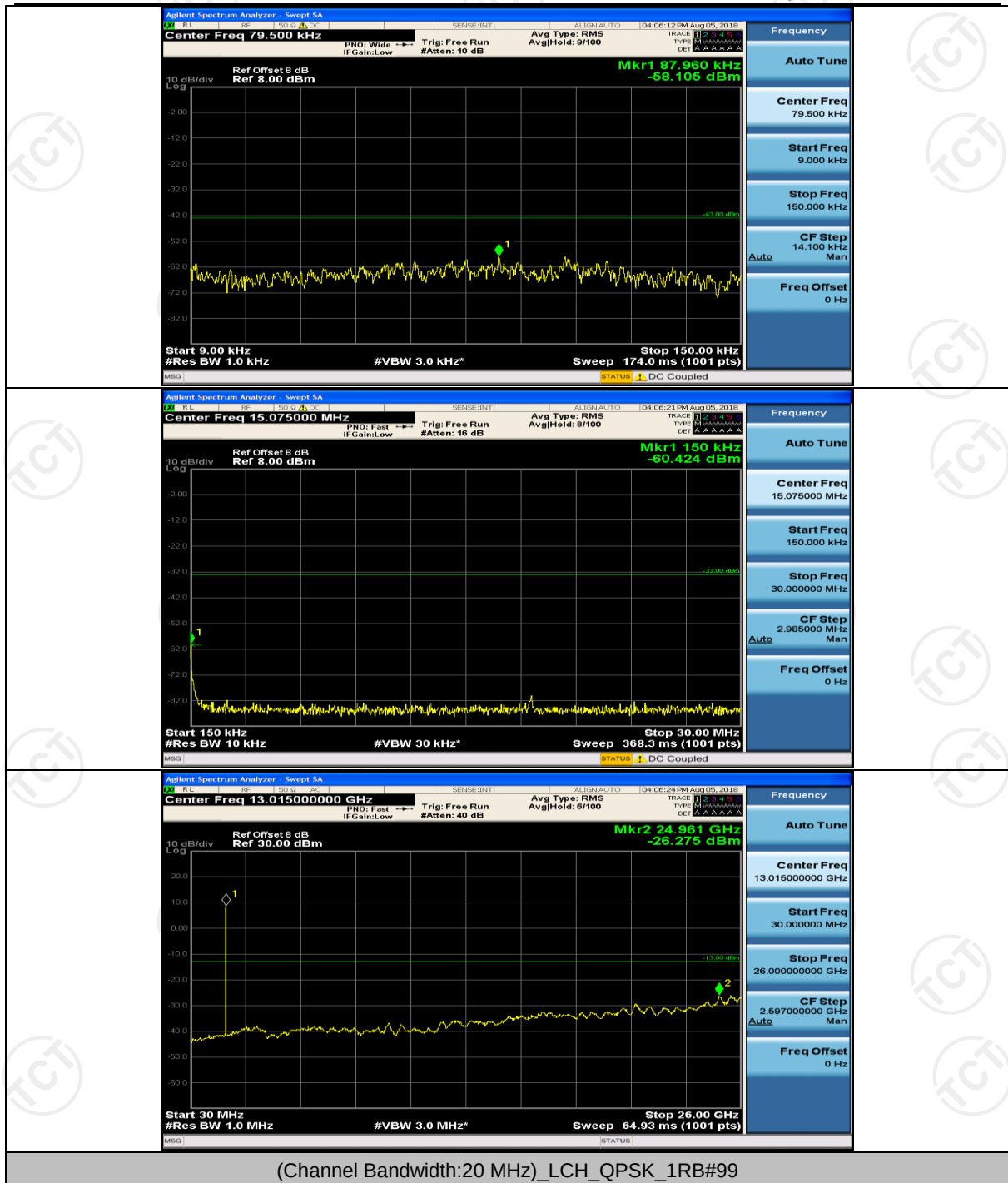
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

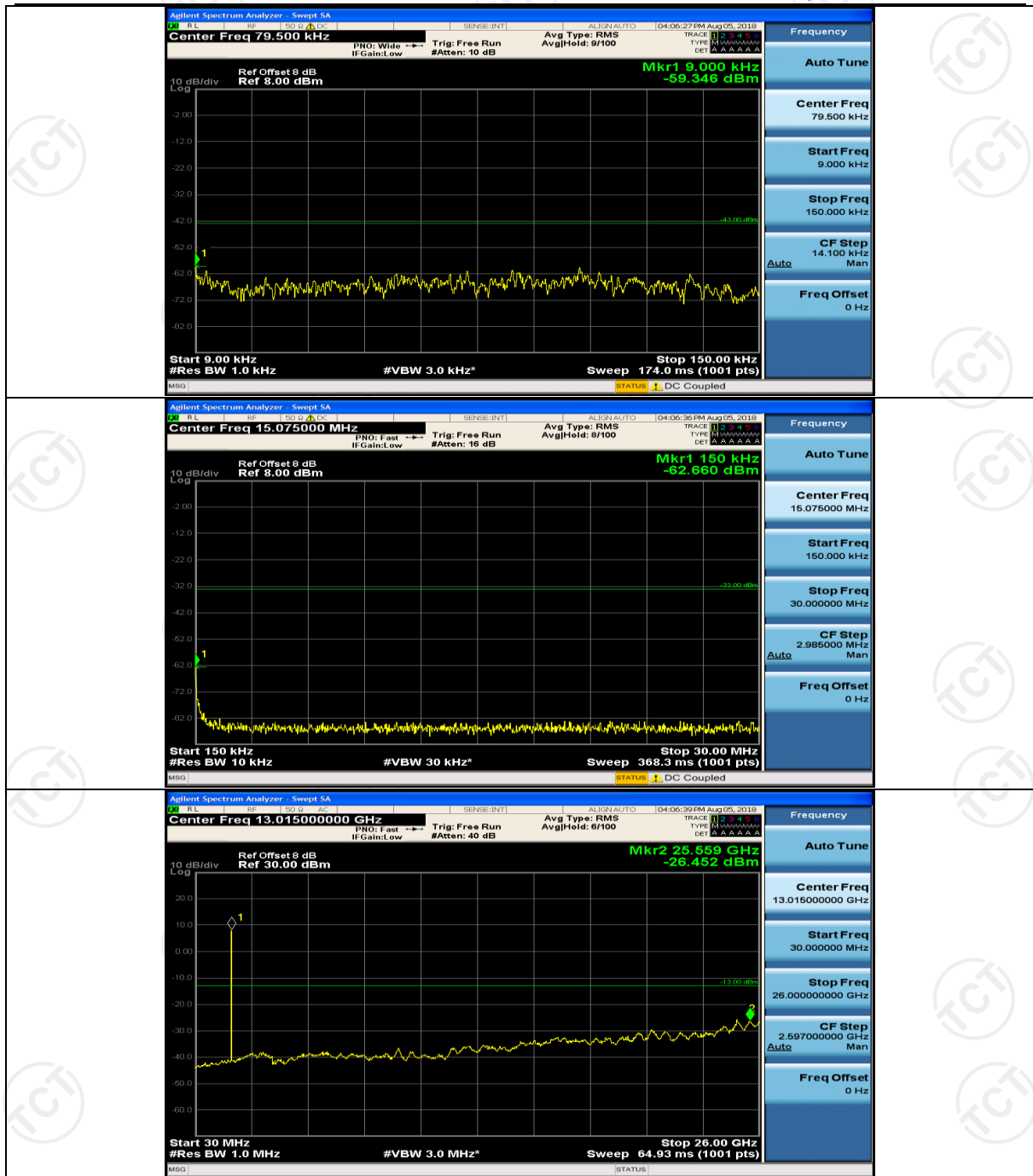




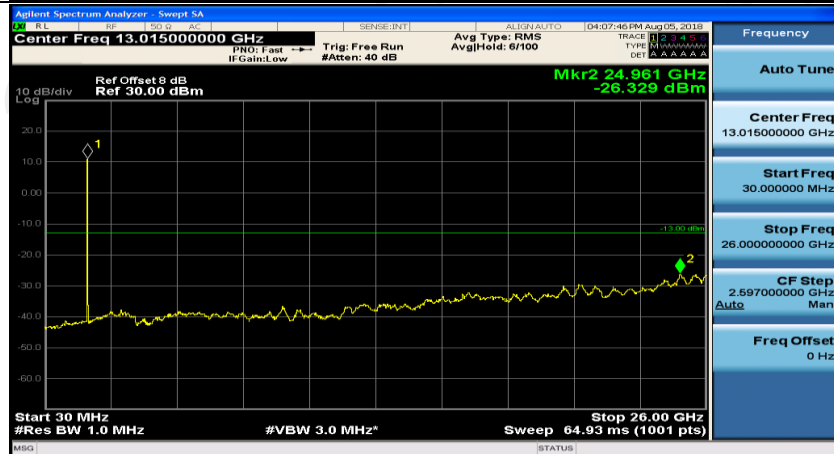
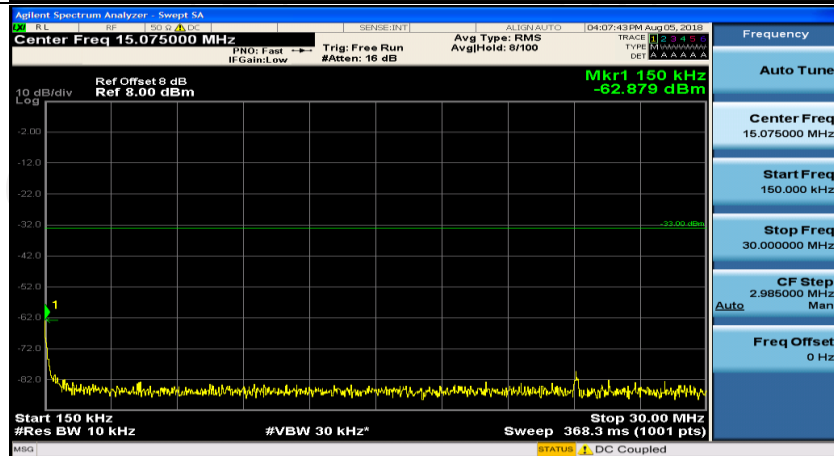
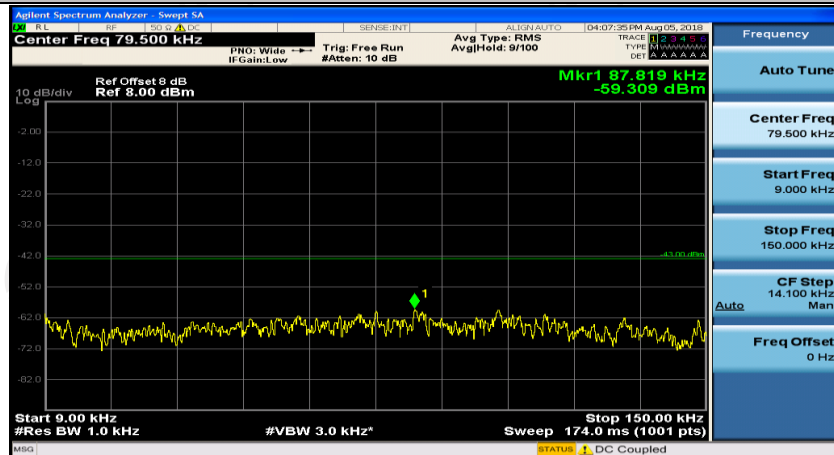
Channel Bandwidth: 20 MHz



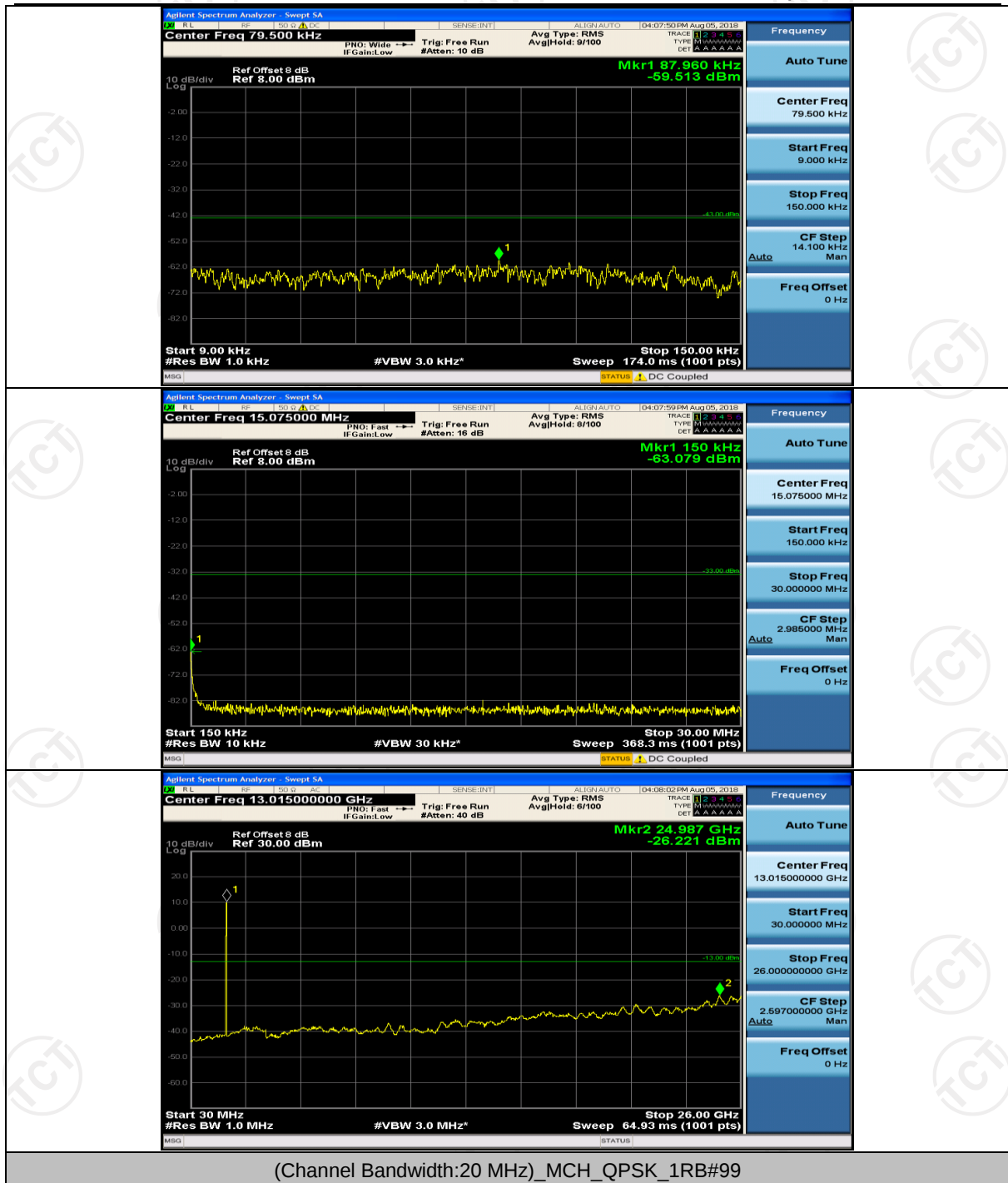


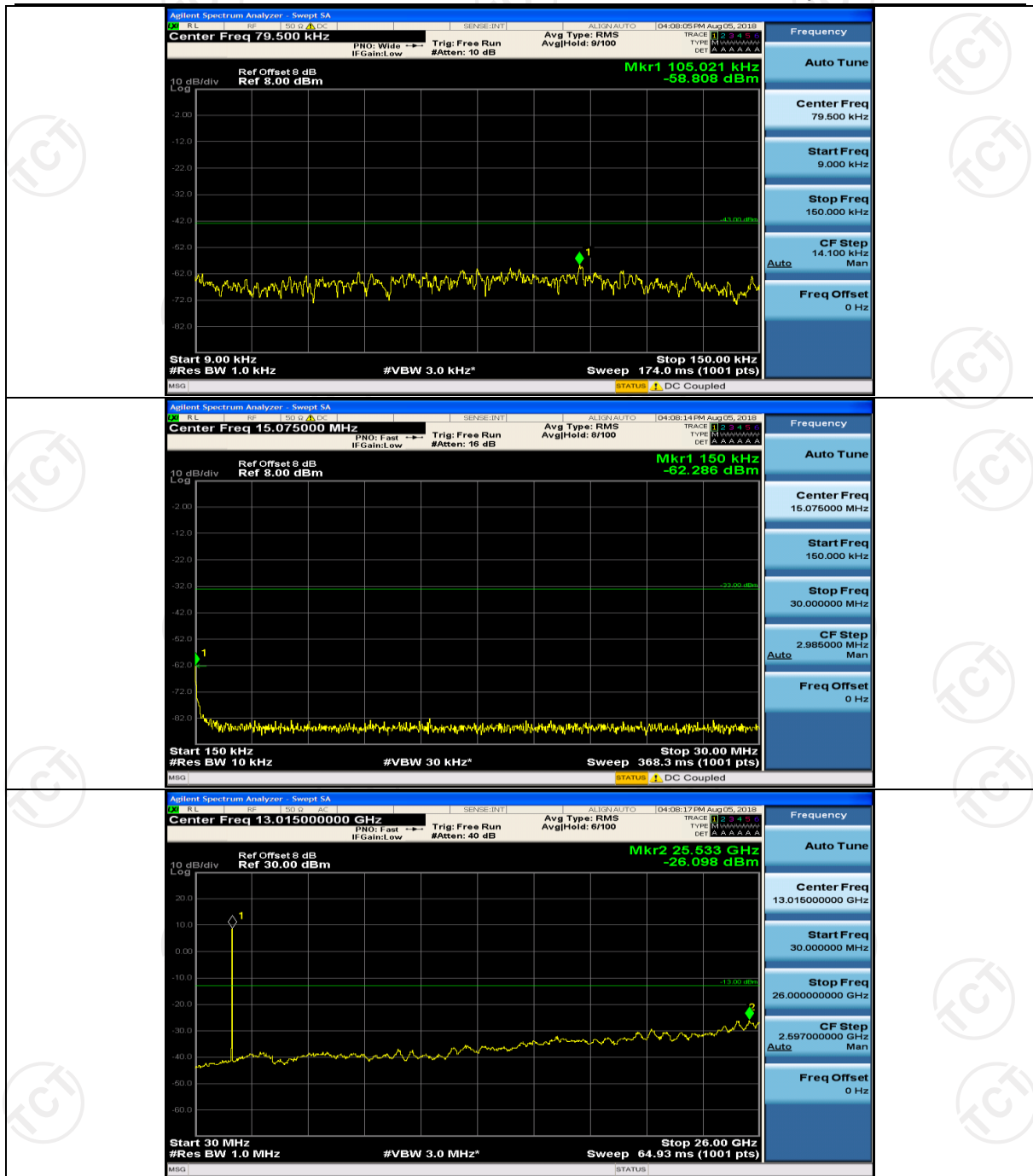


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

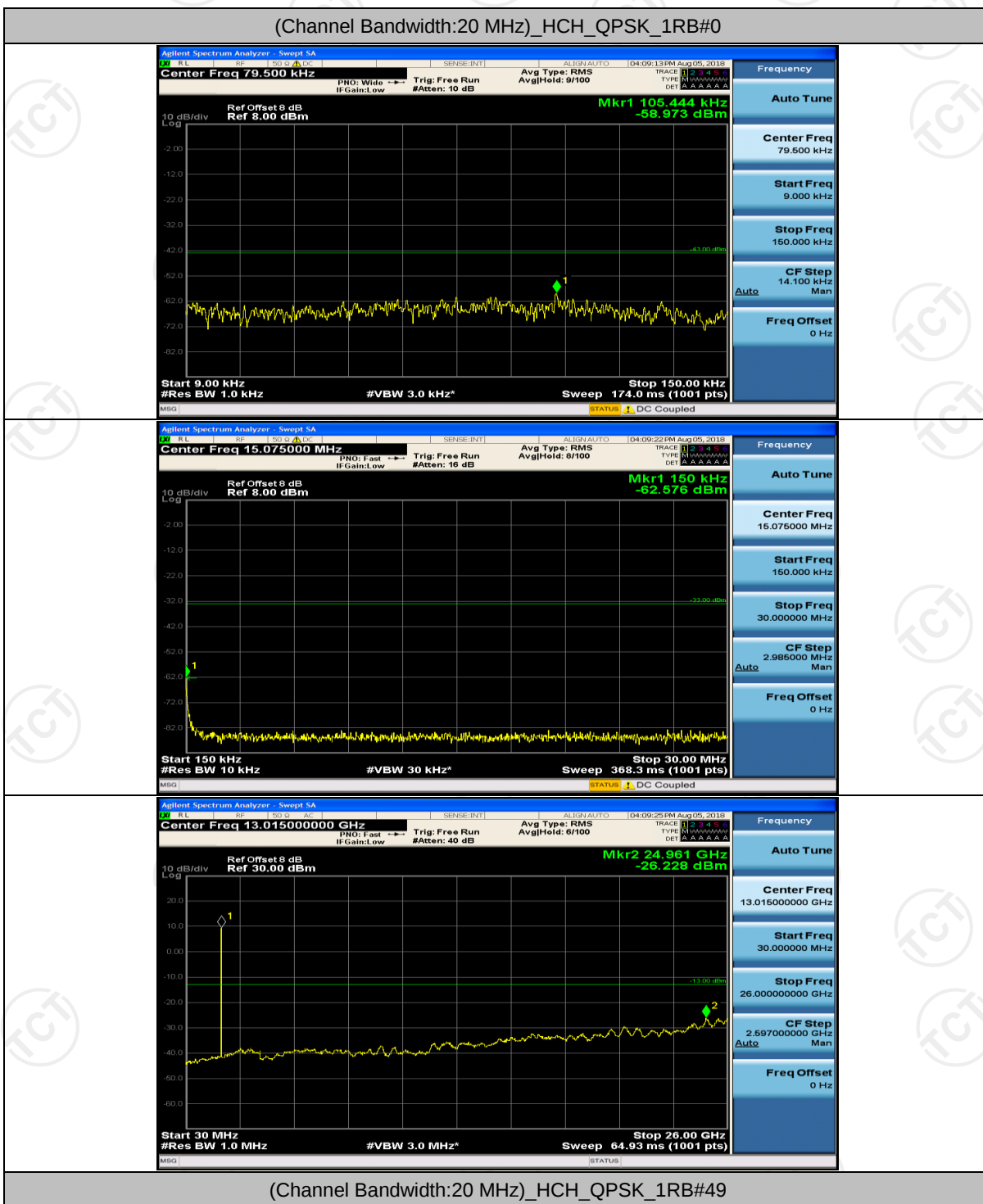


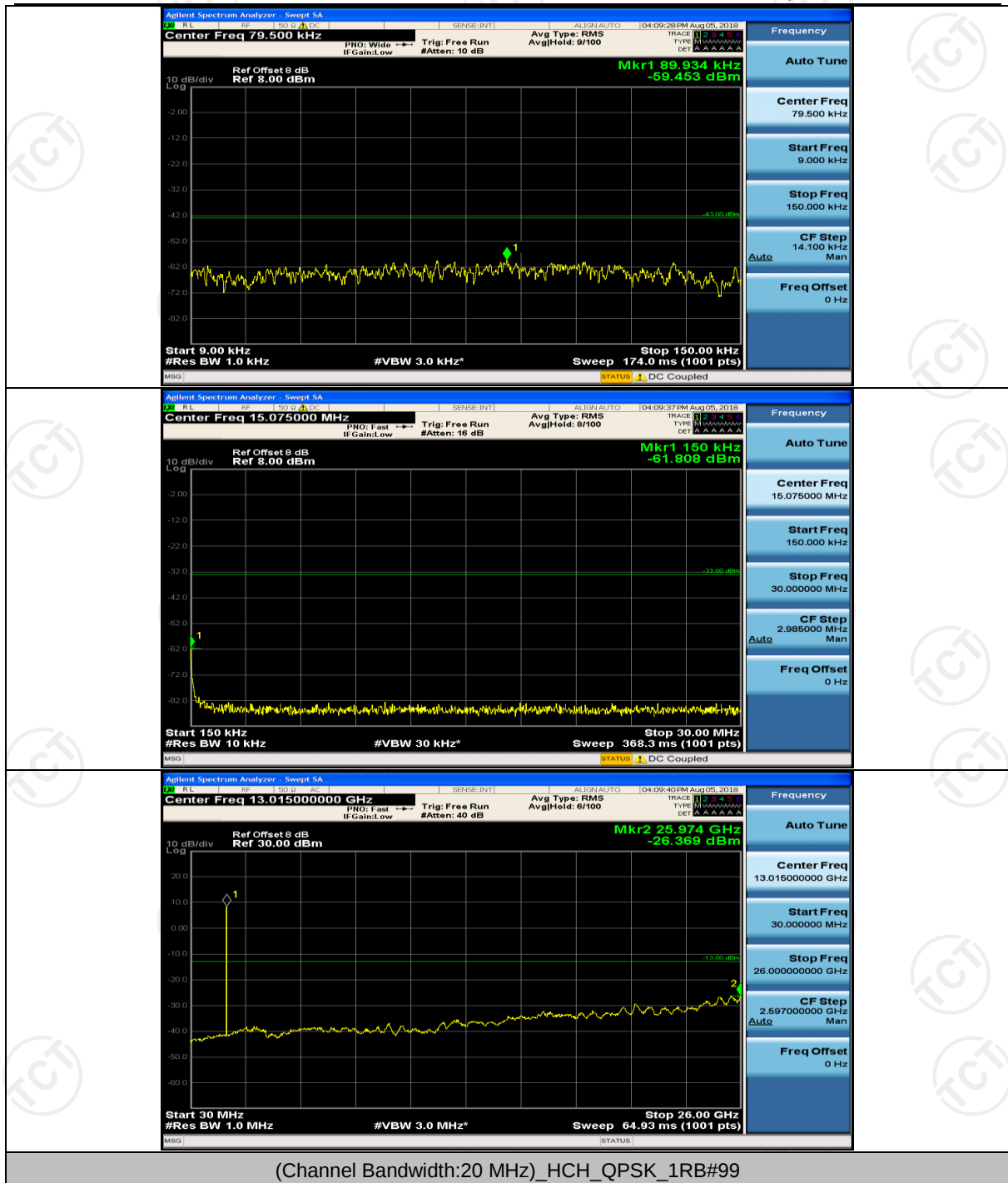
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

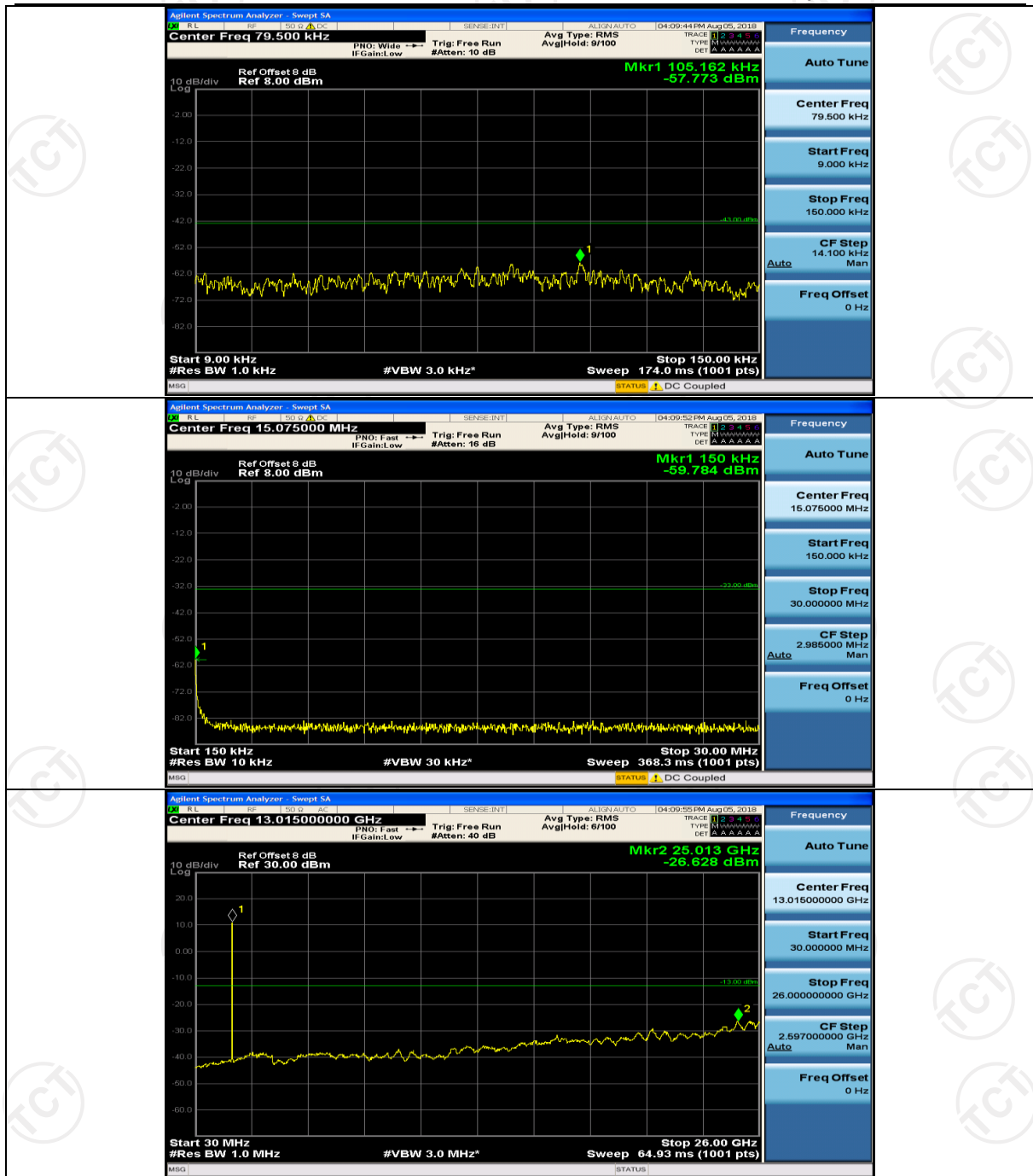




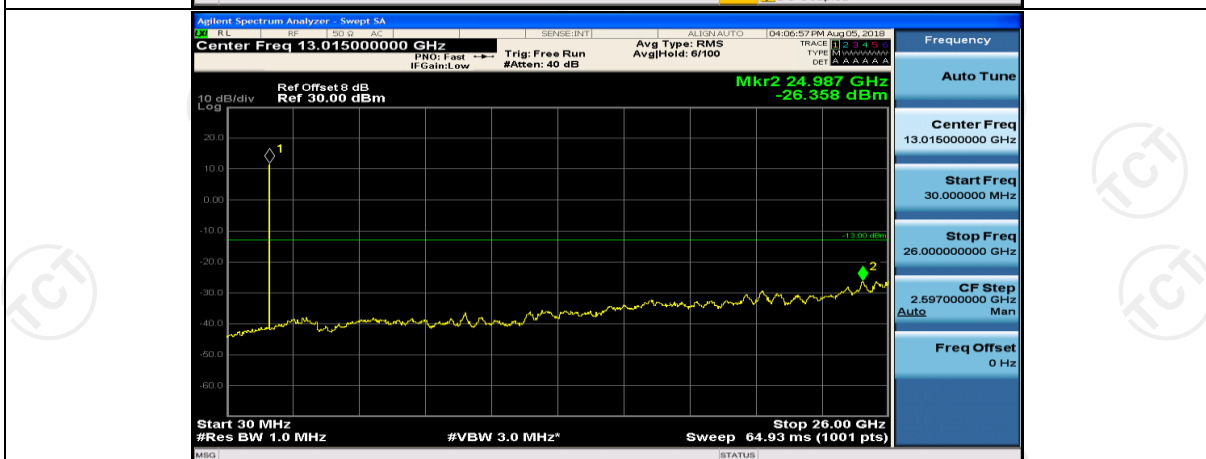
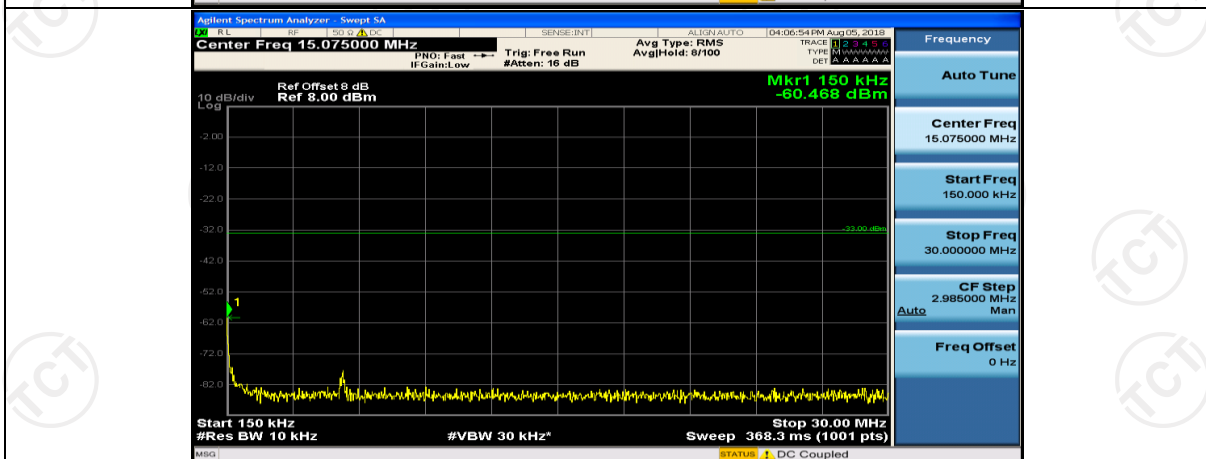
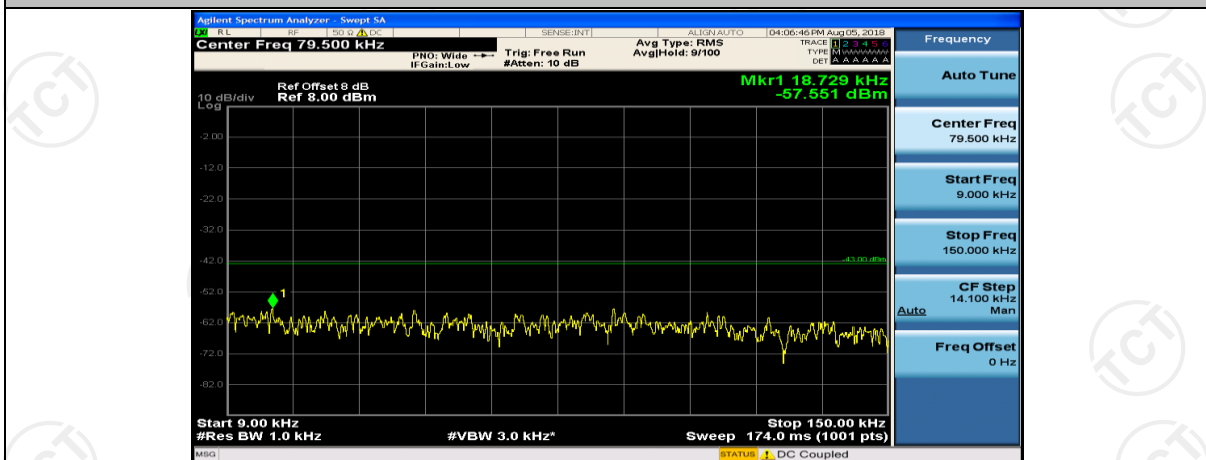
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0



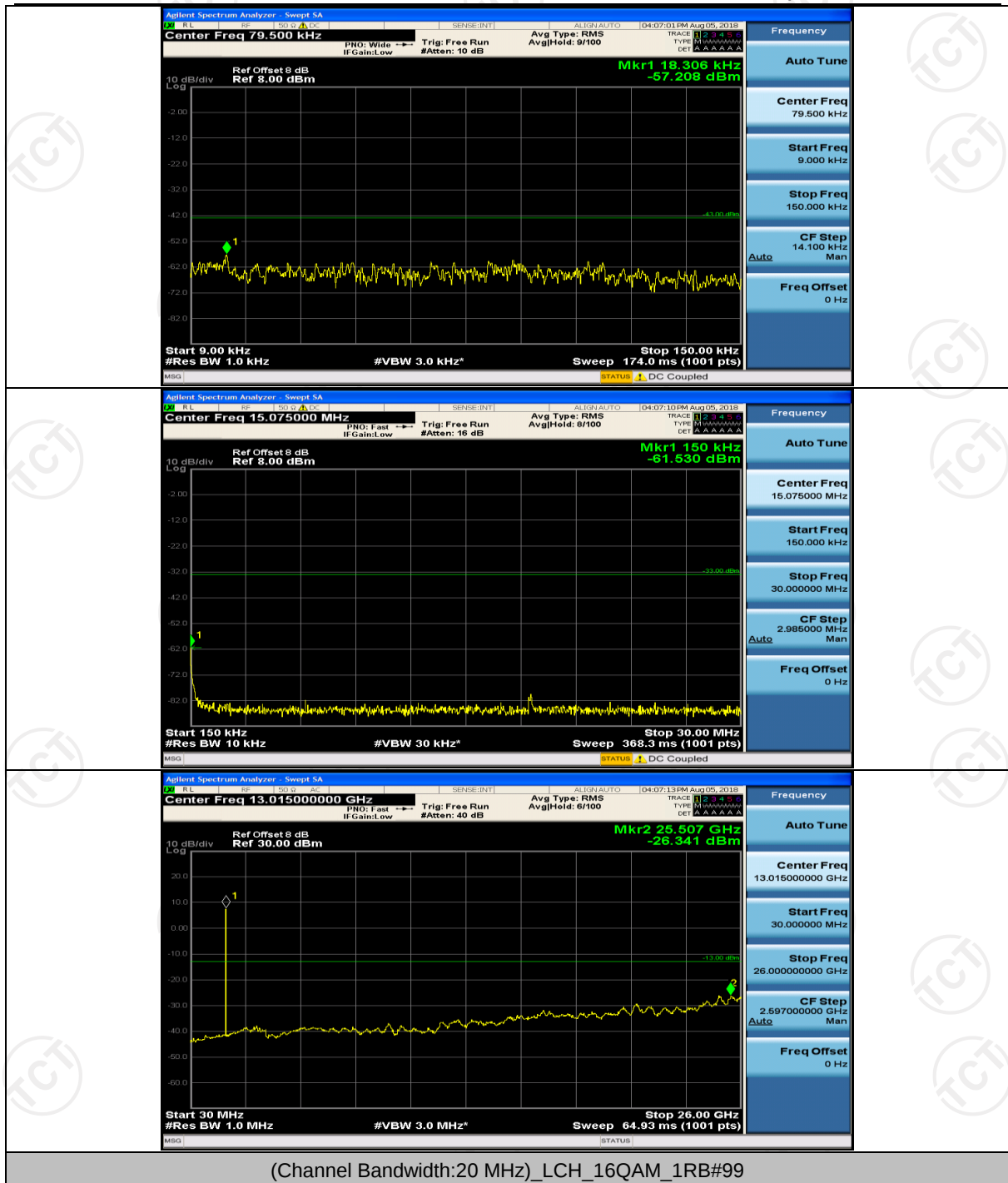


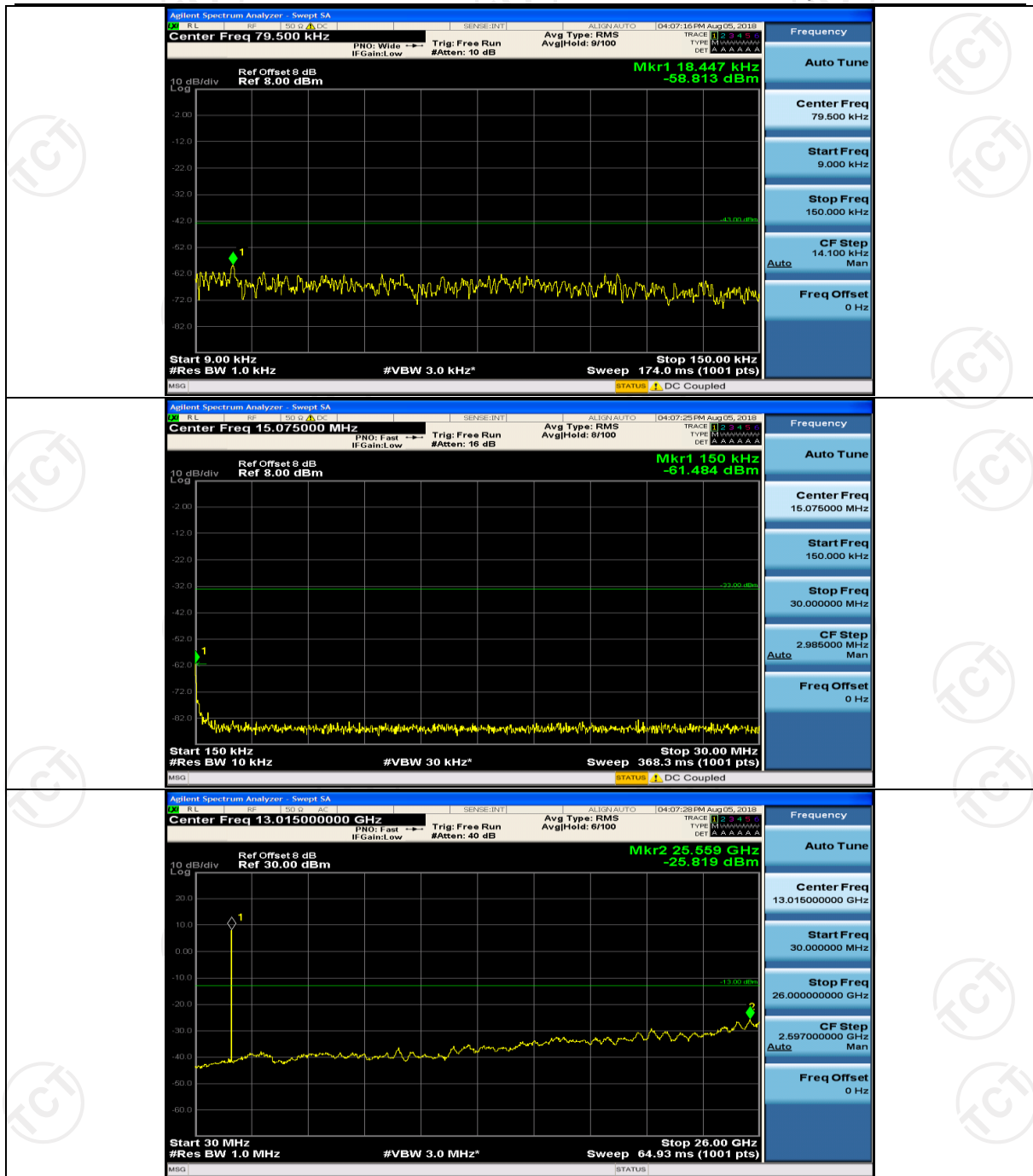


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

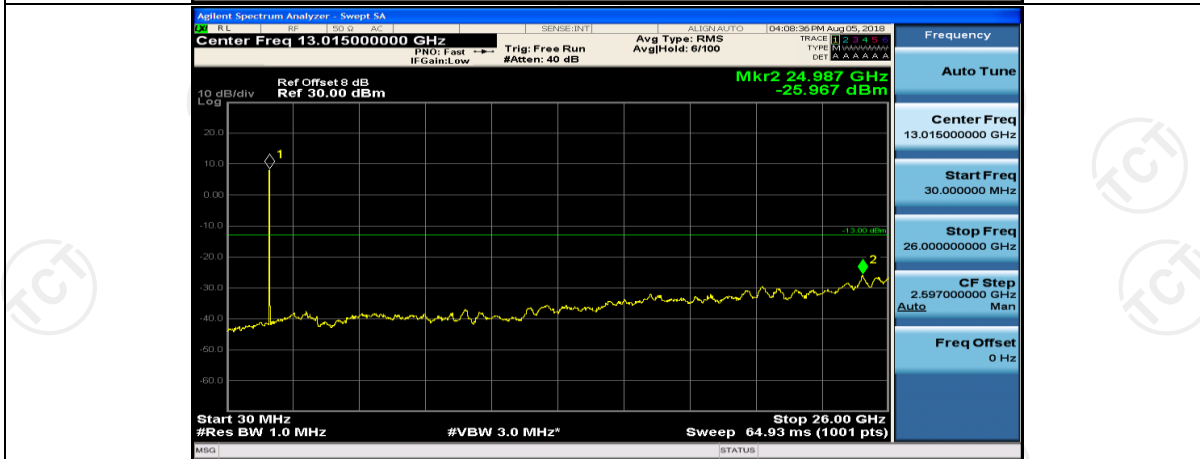
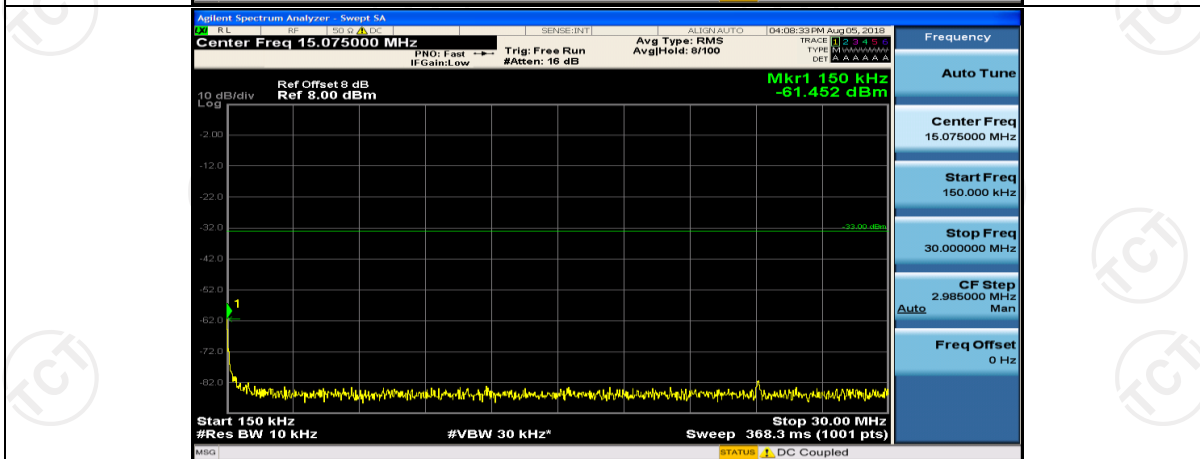
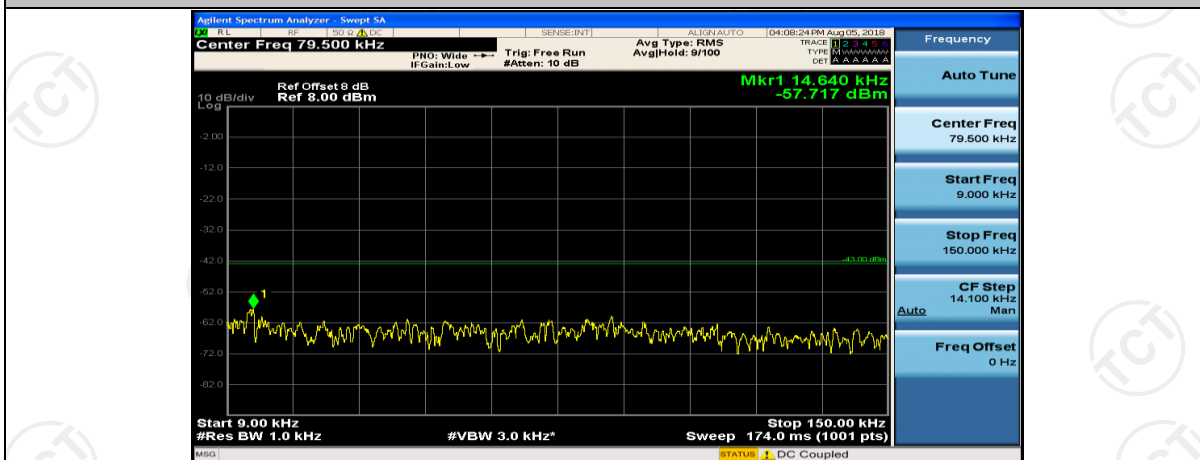


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

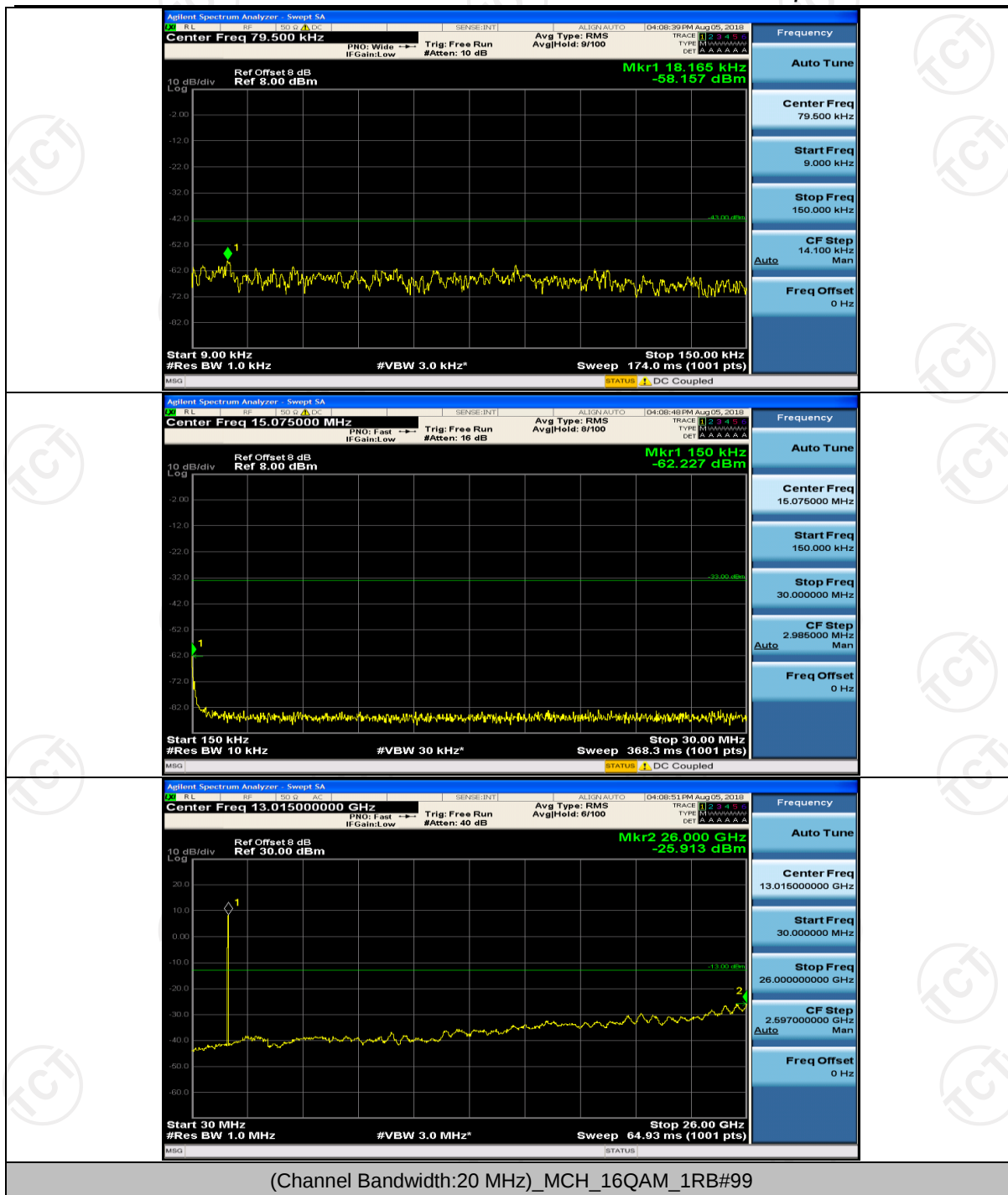


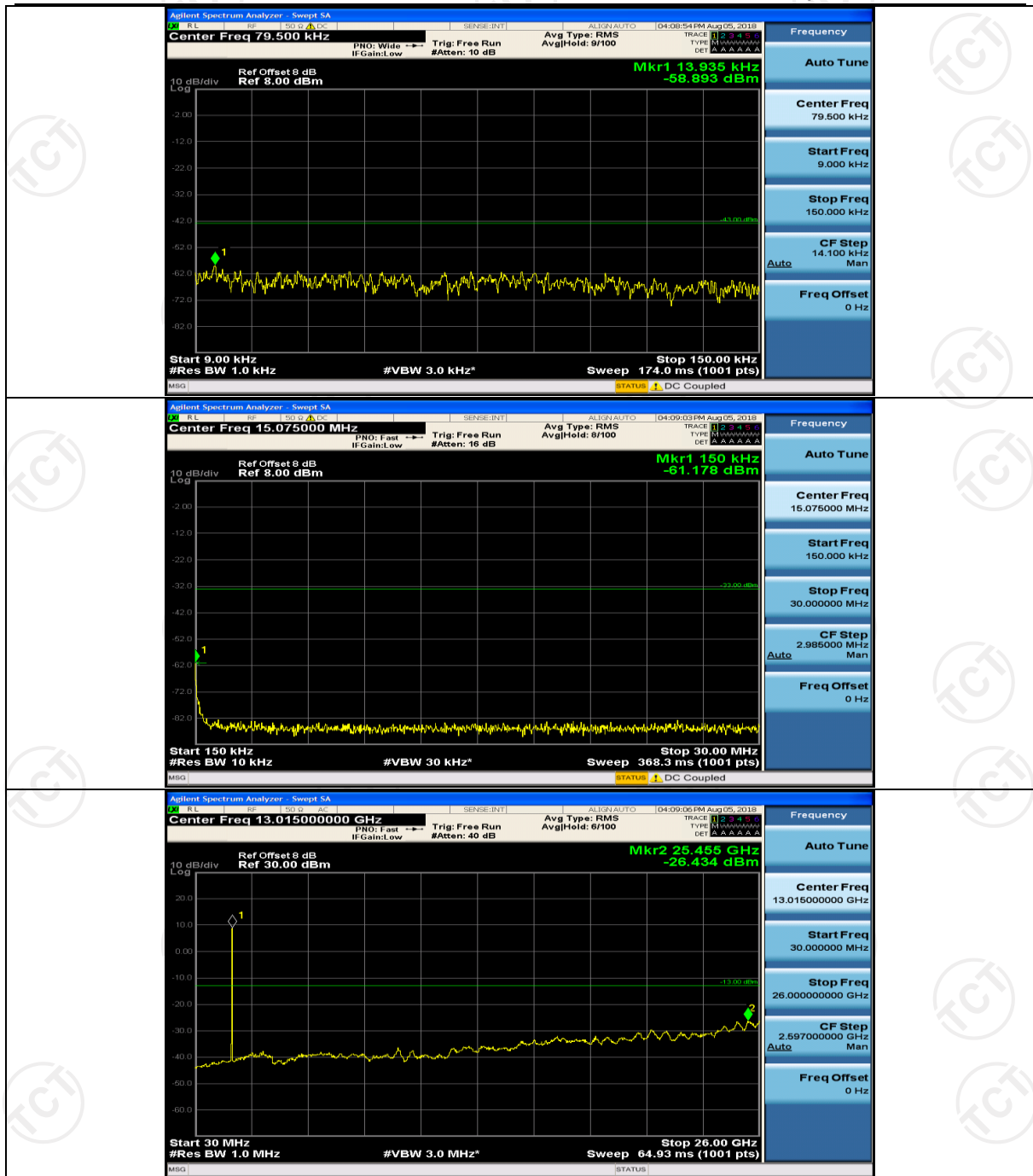


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

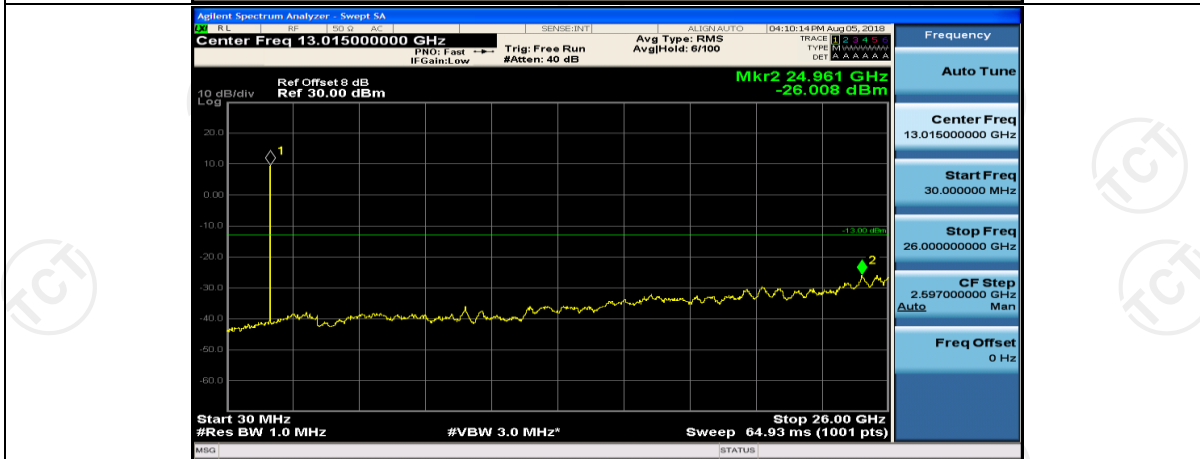
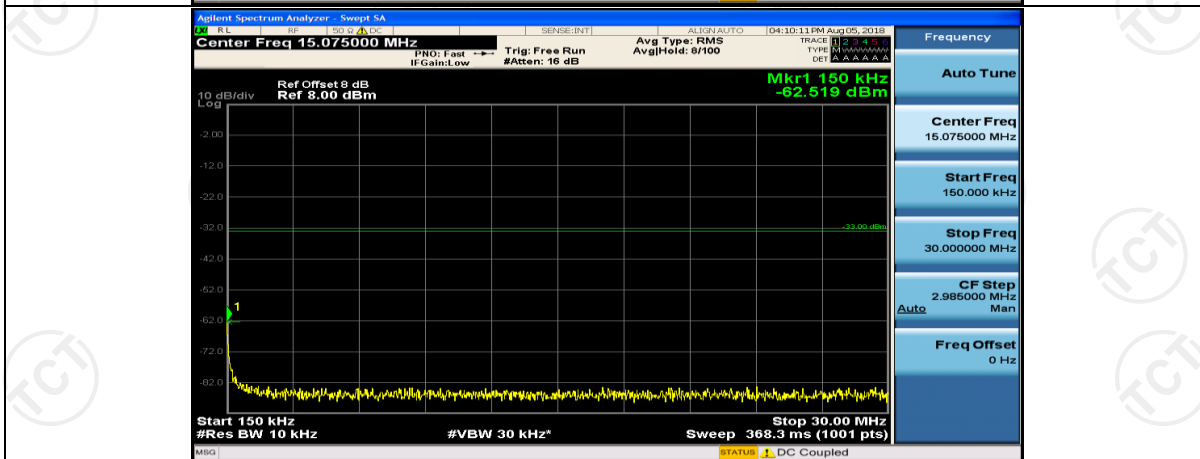
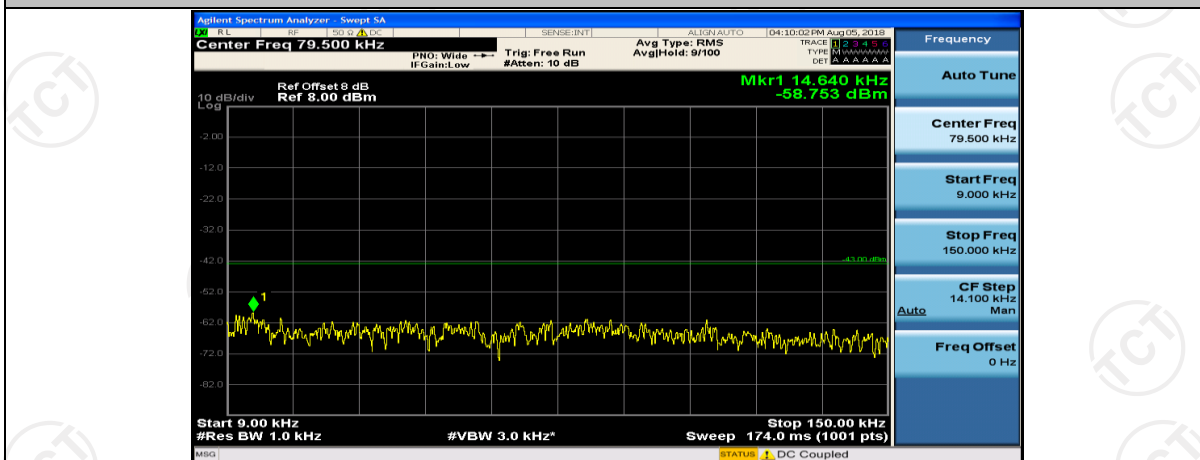


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

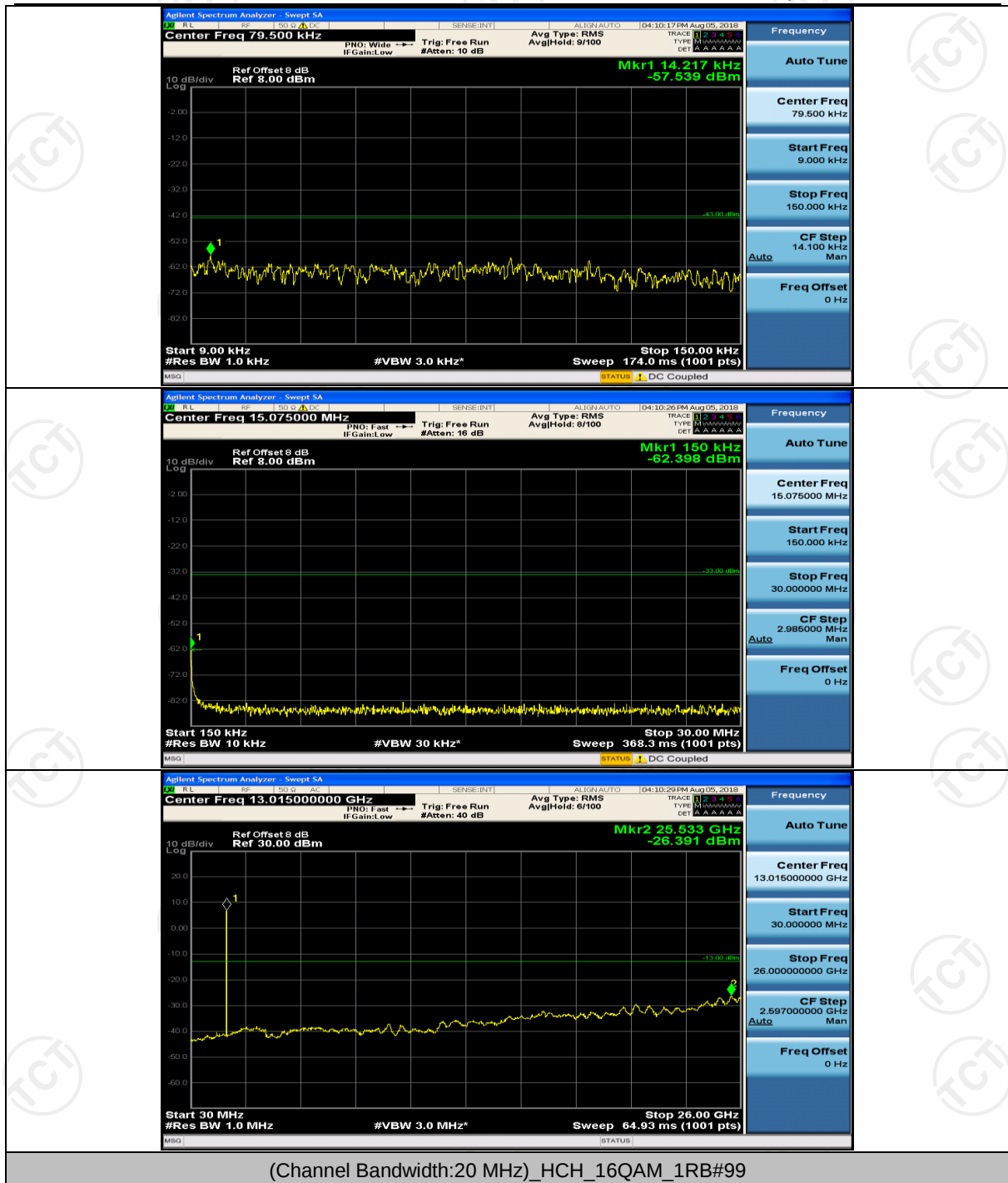


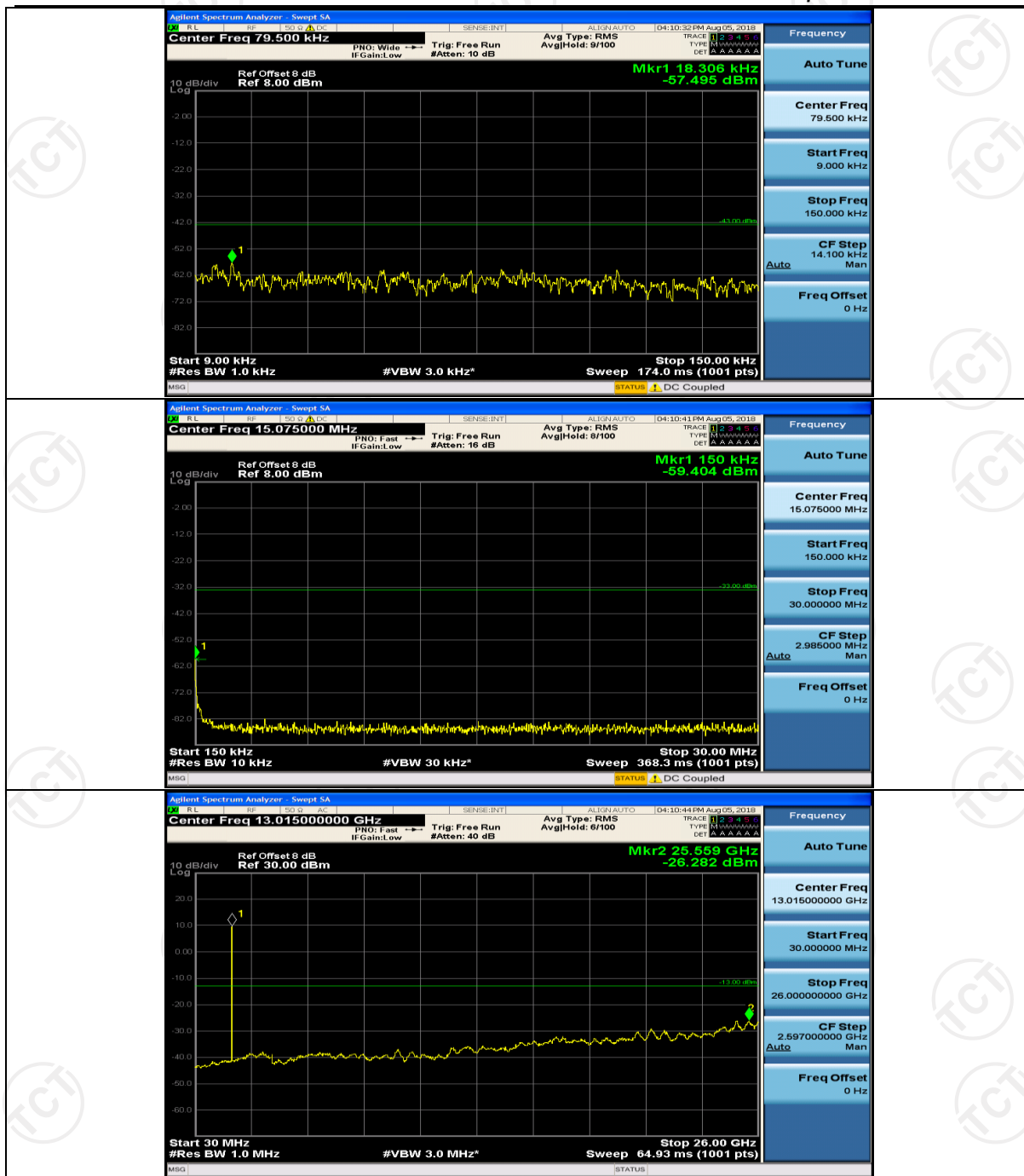


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	3.3	25	0.001137	± 2.5	PASS
		3.7	25	0.001447	± 2.5	PASS
		4.2	25	0.001428	± 2.5	PASS
	MCH	3.3	25	0.001651	± 2.5	PASS
		3.7	25	0.001197	± 2.5	PASS
		4.2	25	0.001181	± 2.5	PASS
	HCH	3.3	25	0.001012	± 2.5	PASS
		3.7	25	-0.001191	± 2.5	PASS
		4.2	25	-0.001045	± 2.5	PASS
16QAM	LCH	3.3	25	0.000042	± 2.5	PASS
		3.7	25	0.002283	± 2.5	PASS
		4.2	25	0.001604	± 2.5	PASS
	MCH	3.3	25	0.001016	± 2.5	PASS
		3.7	25	0.002064	± 2.5	PASS
		4.2	25	0.000050	± 2.5	PASS
	HCH	3.3	25	0.000873	± 2.5	PASS
		3.7	25	-0.000824	± 2.5	PASS
		4.2	25	-0.000939	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	0.000660	± 2.5	PASS
		3.7	-20	0.000234	± 2.5	PASS
		3.7	-10	0.000660	± 2.5	PASS
		3.7	0	0.000535	± 2.5	PASS
		3.7	10	0.000191	± 2.5	PASS
		3.7	20	0.002040	± 2.5	PASS
		3.7	30	0.001664	± 2.5	PASS
		3.7	40	0.002509	± 2.5	PASS
		3.7	50	0.001973	± 2.5	PASS
	MCH	3.7	-30	0.001040	± 2.5	PASS
		3.7	-20	0.001239	± 2.5	PASS
		3.7	-10	0.001519	± 2.5	PASS
		3.7	0	0.000842	± 2.5	PASS
		3.7	10	0.000125	± 2.5	PASS
		3.7	20	0.001222	± 2.5	PASS
		3.7	30	0.000776	± 2.5	PASS

		3.7	40	0.001115	± 2.5	PASS
		3.7	50	0.001734	± 2.5	PASS
	HCH	3.7	-30	0.000351	± 2.5	PASS
		3.7	-20	0.000555	± 2.5	PASS
		3.7	-10	0.000742	± 2.5	PASS
		3.7	0	0.001077	± 2.5	PASS
		3.7	10	0.000837	± 2.5	PASS
		3.7	20	-0.000489	± 2.5	PASS
		3.7	30	-0.000750	± 2.5	PASS
		3.7	40	-0.000938	± 2.5	PASS
		3.7	50	-0.000750	± 2.5	PASS
16QAM	LCH	3.7	-30	0.001312	± 2.5	PASS
		3.7	-20	0.001321	± 2.5	PASS
		3.7	-10	0.000702	± 2.5	PASS
		3.7	0	0.000150	± 2.5	PASS
		3.7	10	0.000325	± 2.5	PASS
		3.7	20	0.001447	± 2.5	PASS
		3.7	30	0.002057	± 2.5	PASS
		3.7	40	0.001856	± 2.5	PASS
		3.7	50	0.002358	± 2.5	PASS
	MCH	3.7	-30	0.001040	± 2.5	PASS
		3.7	-20	0.000528	± 2.5	PASS
		3.7	-10	0.000793	± 2.5	PASS
		3.7	0	0.000008	± 2.5	PASS
		3.7	10	0.000572	± 2.5	PASS
		3.7	20	0.001305	± 2.5	PASS
		3.7	30	0.001247	± 2.5	PASS
		3.7	40	0.001445	± 2.5	PASS
		3.7	50	0.001495	± 2.5	PASS
	HCH	3.7	-30	0.000457	± 2.5	PASS
		3.7	-20	0.000881	± 2.5	PASS
		3.7	-10	0.000408	± 2.5	PASS
		3.7	0	0.000930	± 2.5	PASS
		3.7	10	0.000265	± 2.5	PASS
		3.7	20	-0.000514	± 2.5	PASS
		3.7	30	-0.000383	± 2.5	PASS
		3.7	40	-0.001076	± 2.5	PASS
		3.7	50	-0.001085	± 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	-34.02	-13.00	PASS
5132.1	V	-48.51		
-	V	-		
3421.4	Horizontal	-33.98		
5132.1	H	-42.17		
-	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	-32.62	-13.00	PASS
5197.5	V	-44.37		
-	V	-		
3465	Horizontal	-33.21		
5197.5	H	-45.85		
-	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	-35.75	-13.00	PASS
5262.9	V	-44.86		
-	V	-		
3508.6	Horizontal	-35.32		
5262.9	H	-42.44		
-	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)		
3421.4	Vertical	-35.21	-13.00	PASS
5132.1	V	-41.75		
-	V	-		
3421.4	Horizontal	-36.29		
5132.1	H	-42.60		
-	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	-35.19	-13.00	PASS
5197.5	V	-42.34		
-	V	-		
3465	Horizontal	-36.85		
5197.5	H	-42.45		
-	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	-35.65	-13.00	PASS
5262.9	V	-41.36		
-	V	-		
3508.6	Horizontal	-34.61		
5262.9	H	-43.87		
-	H	-		

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