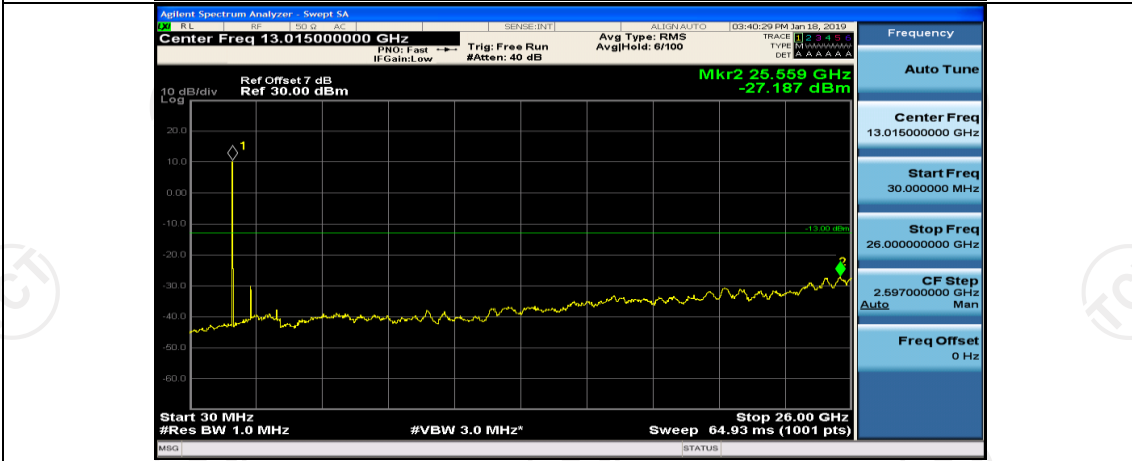
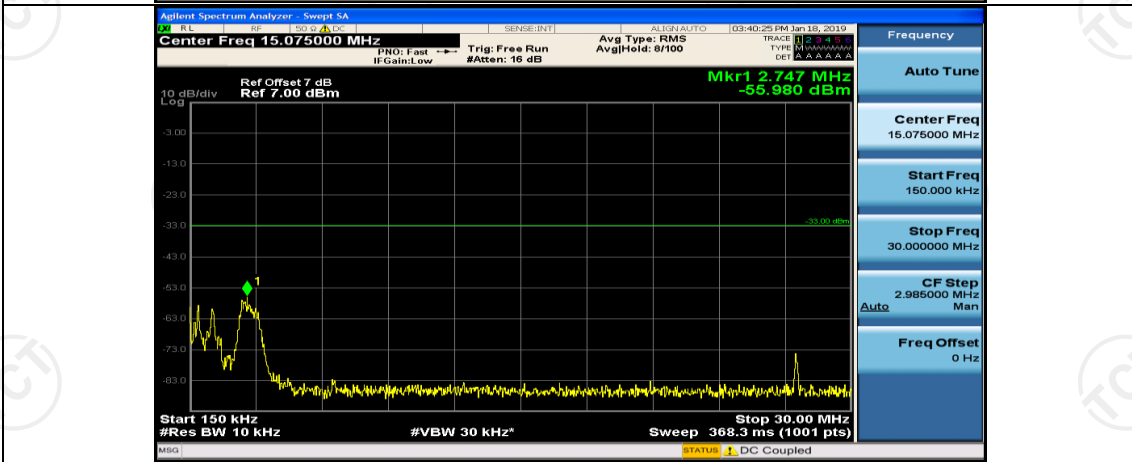
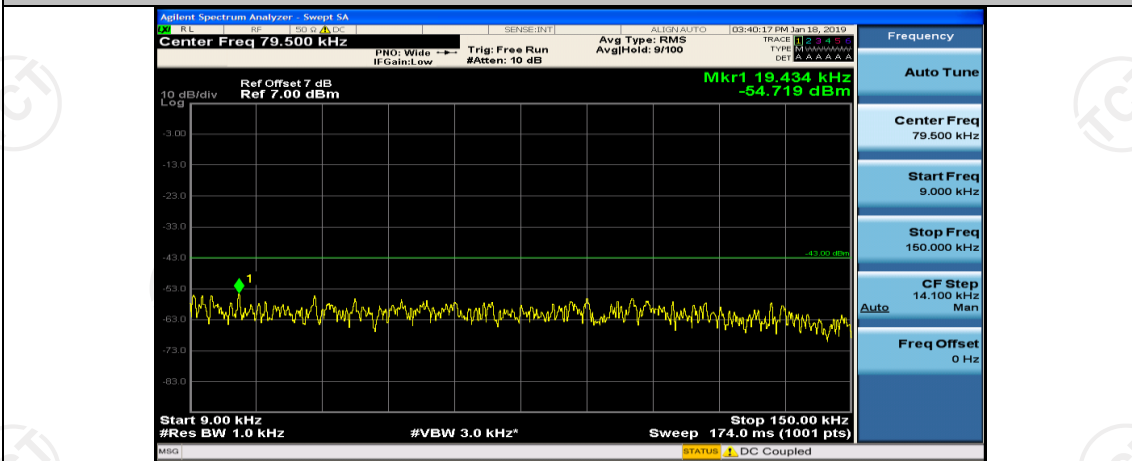
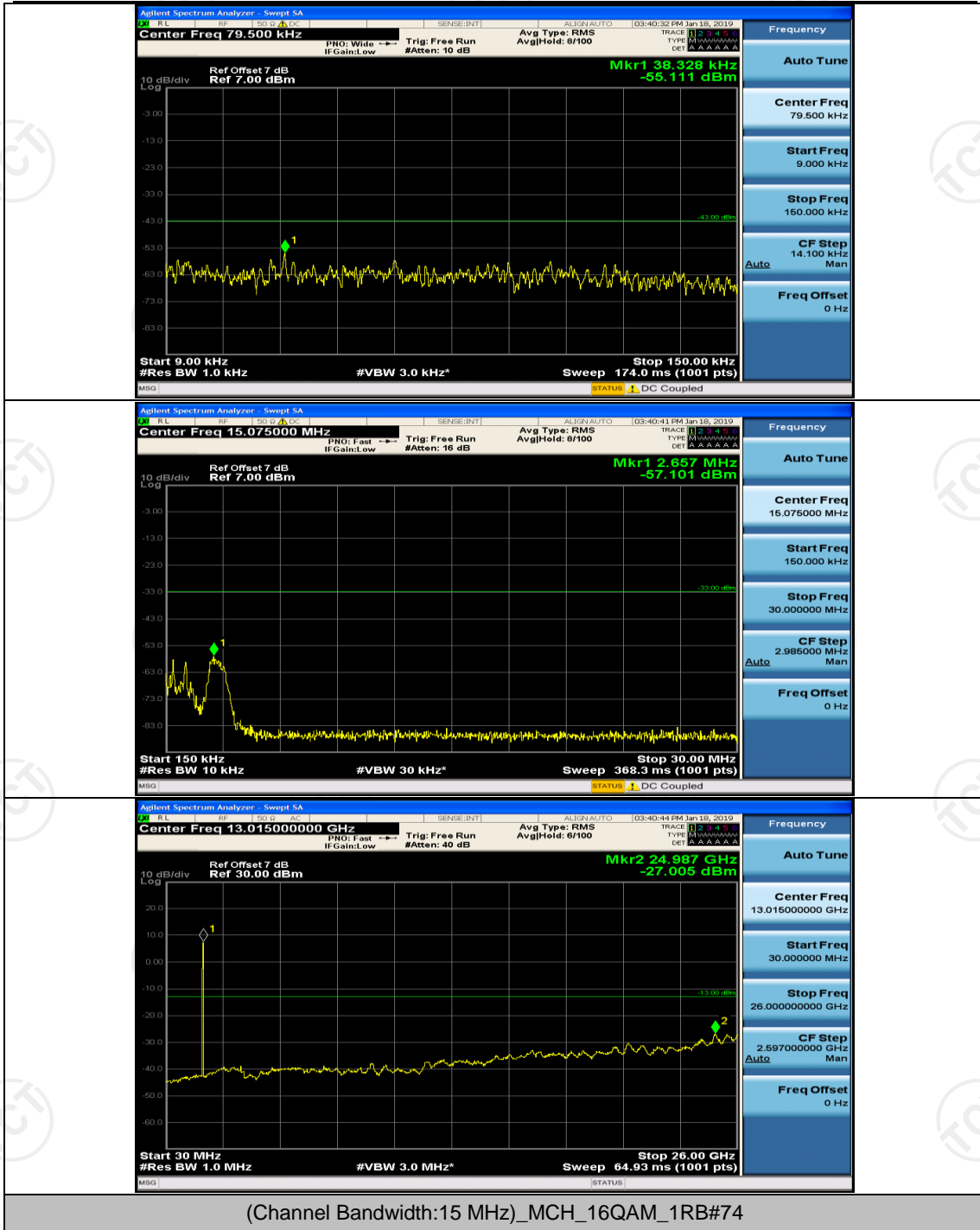
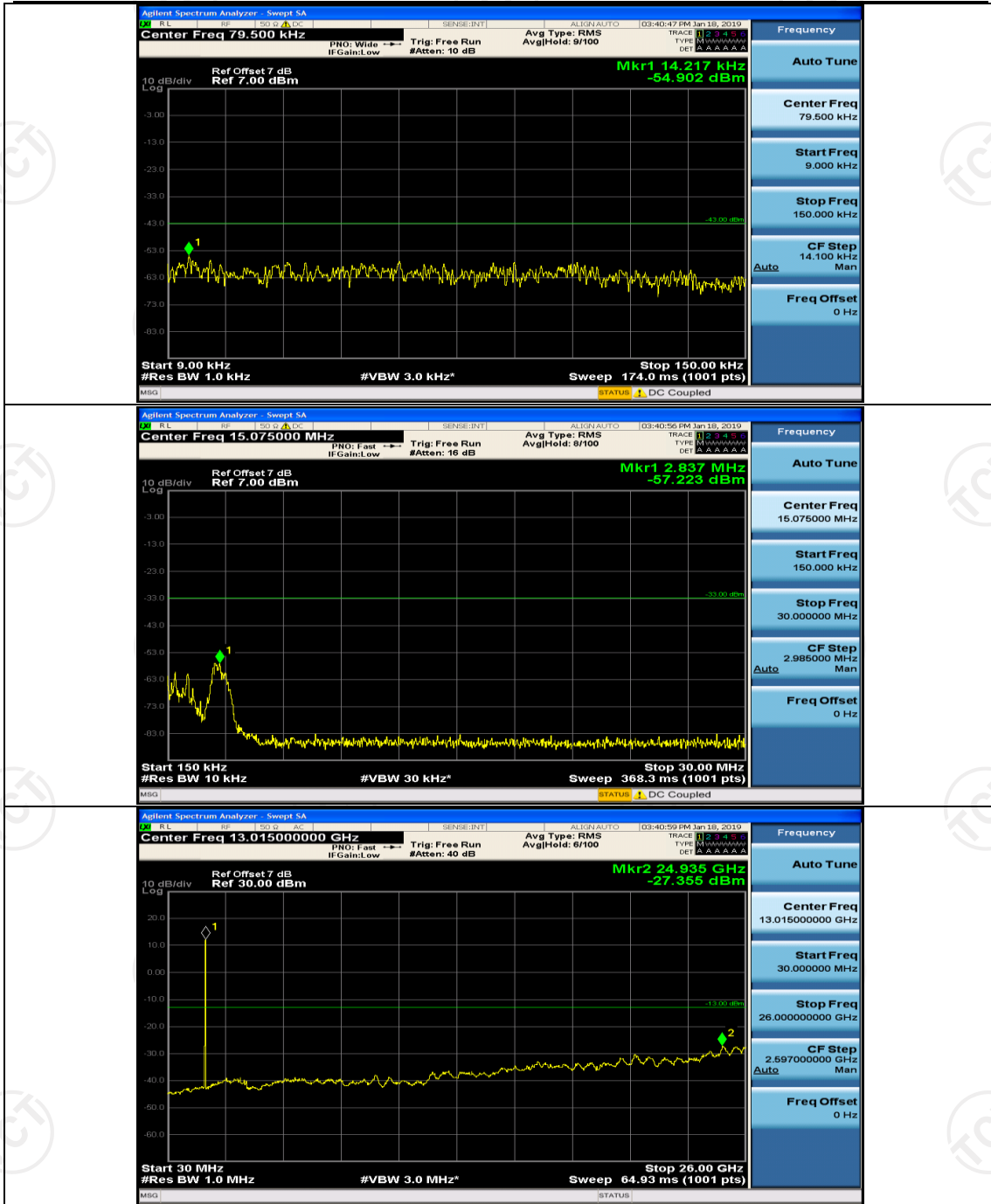


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

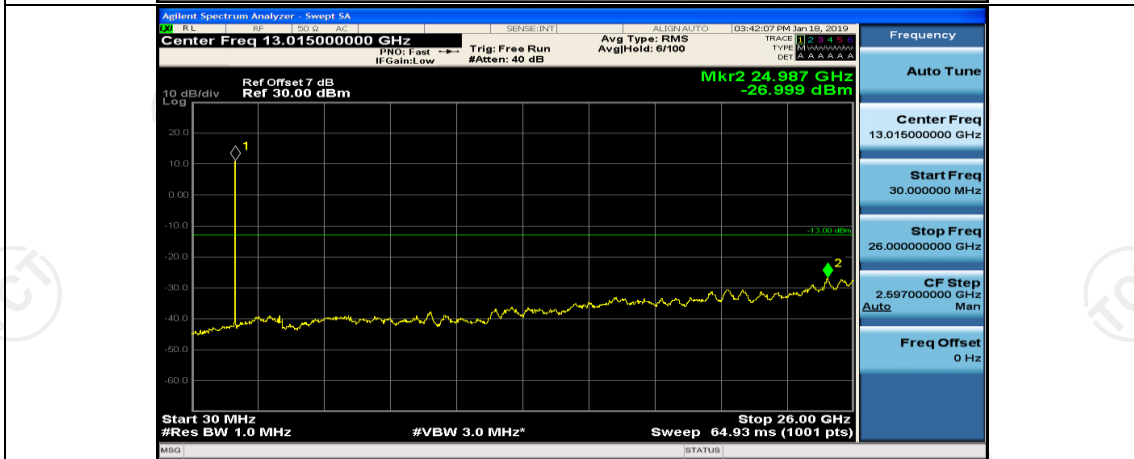
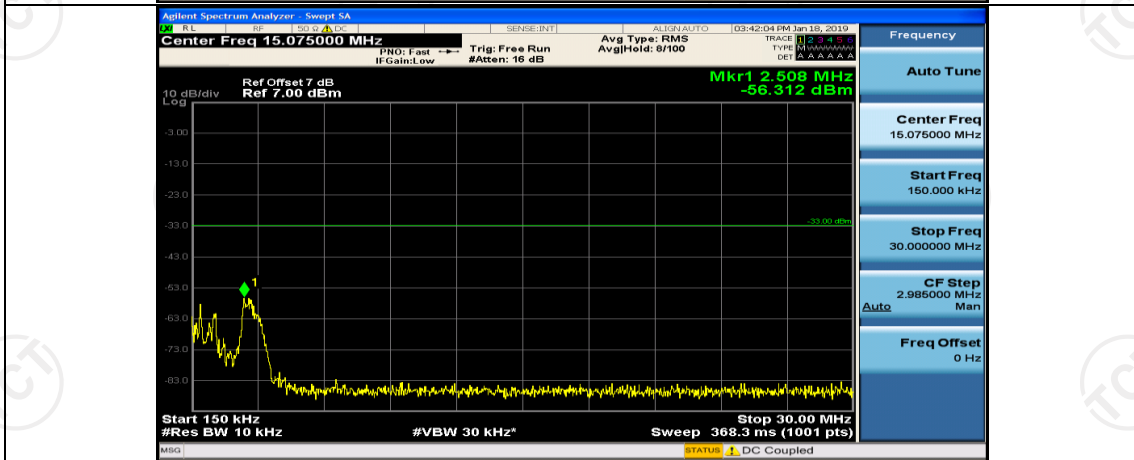
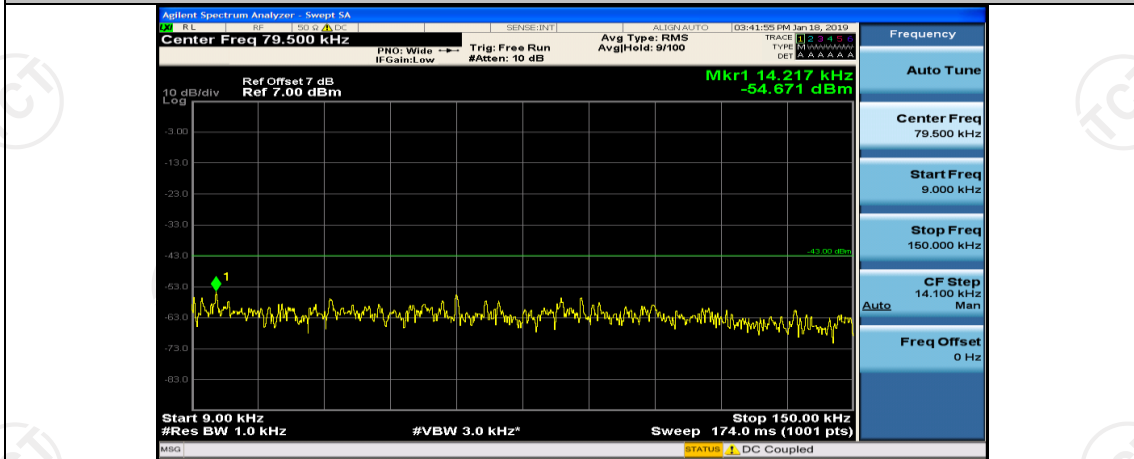


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

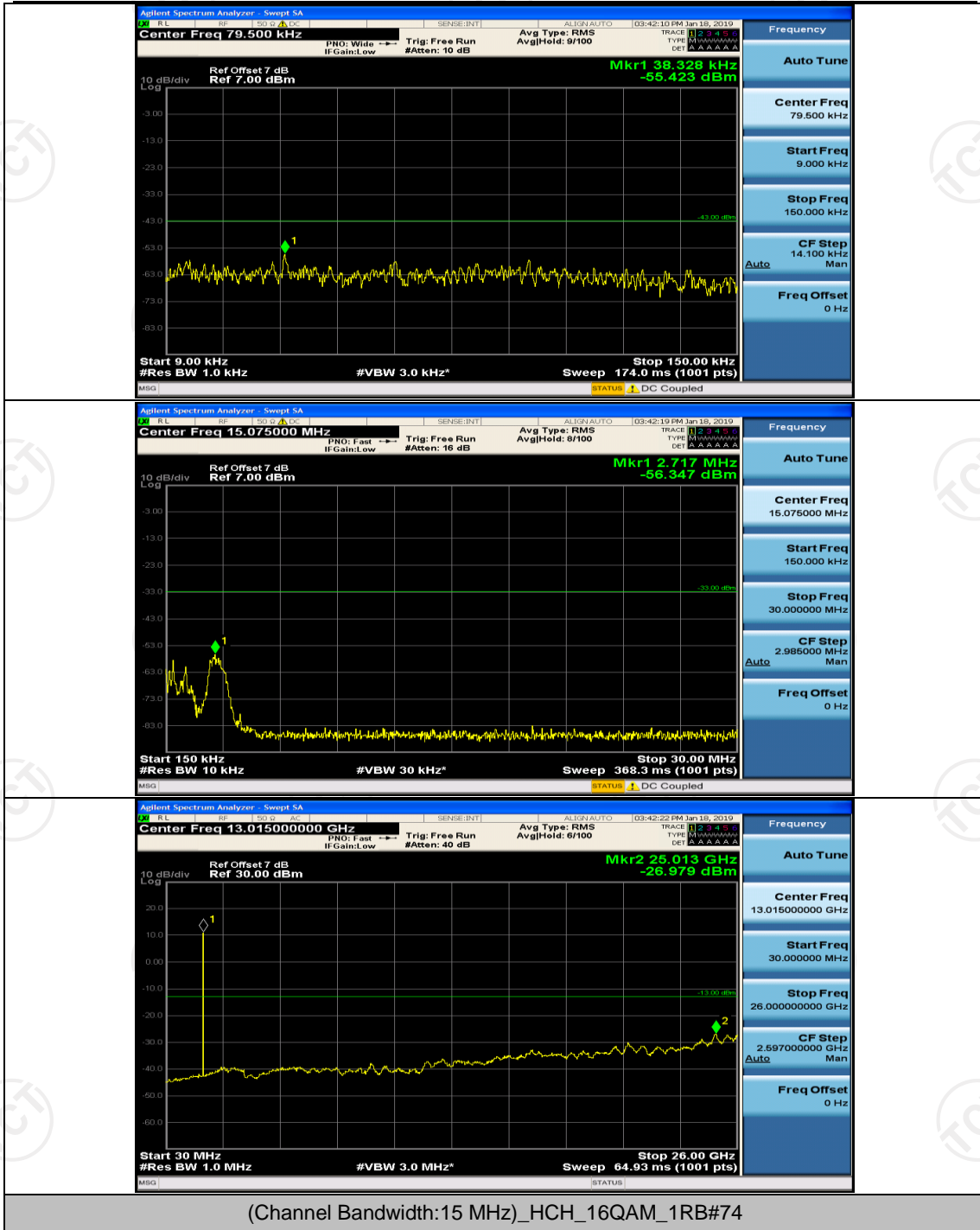


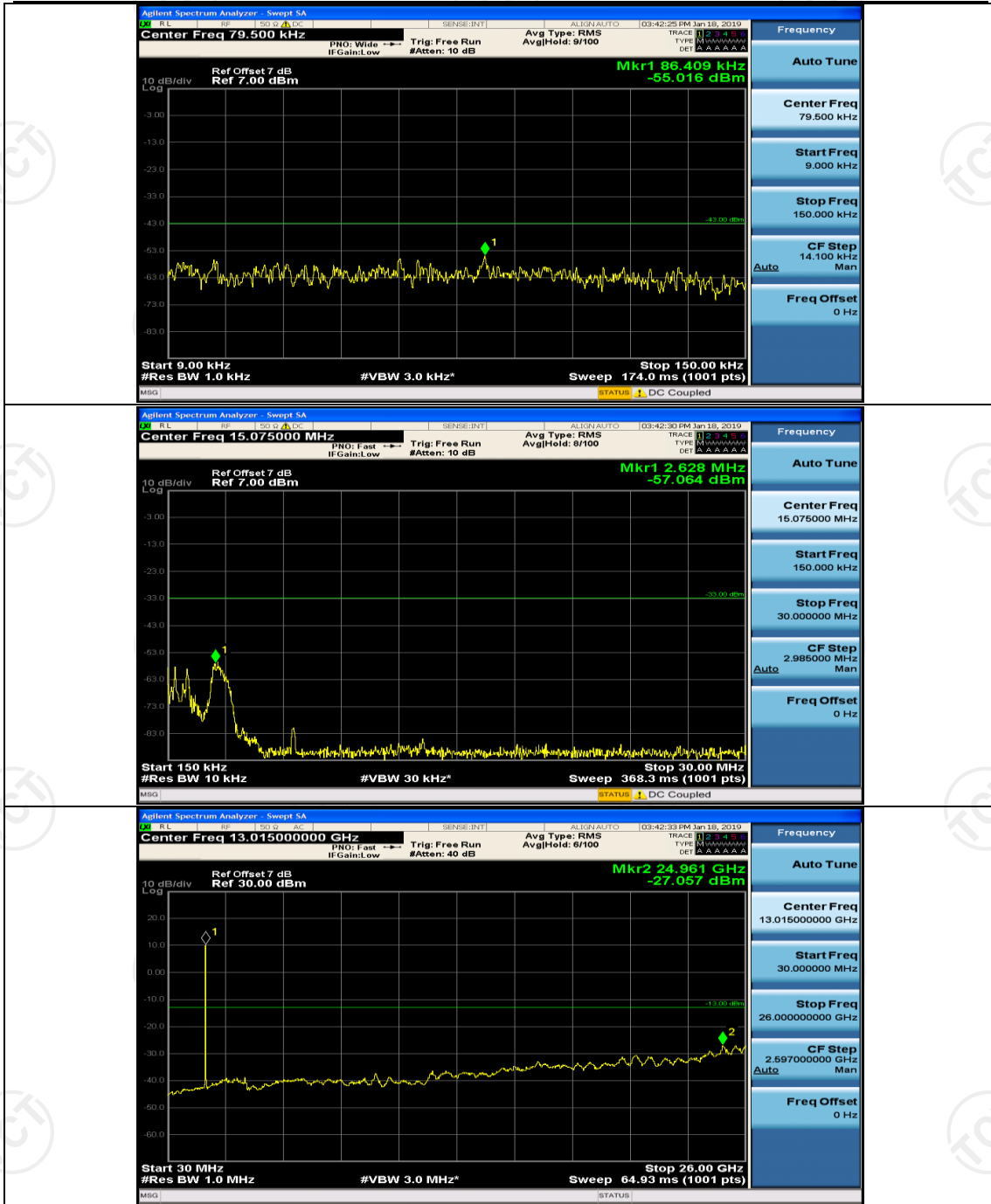


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

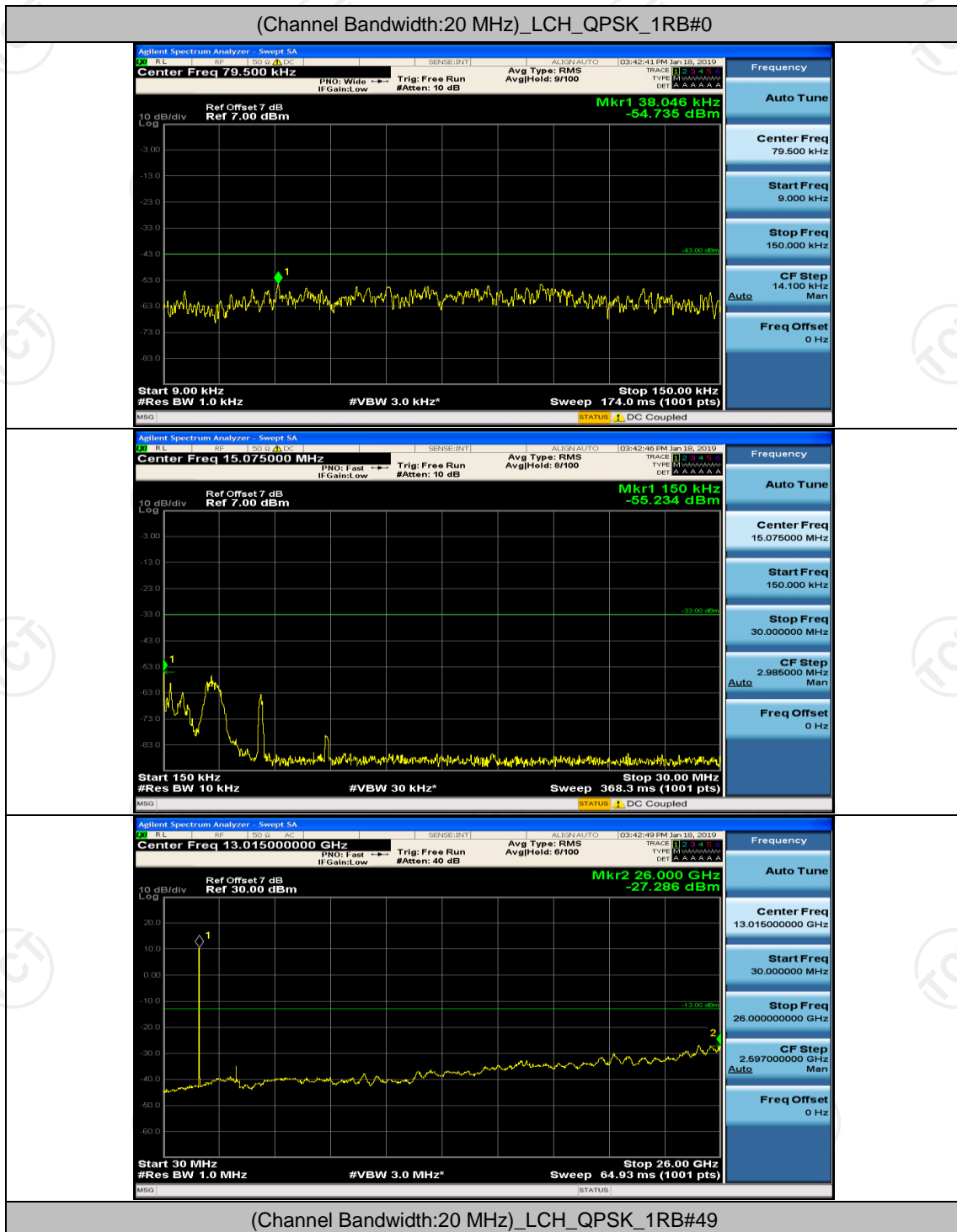


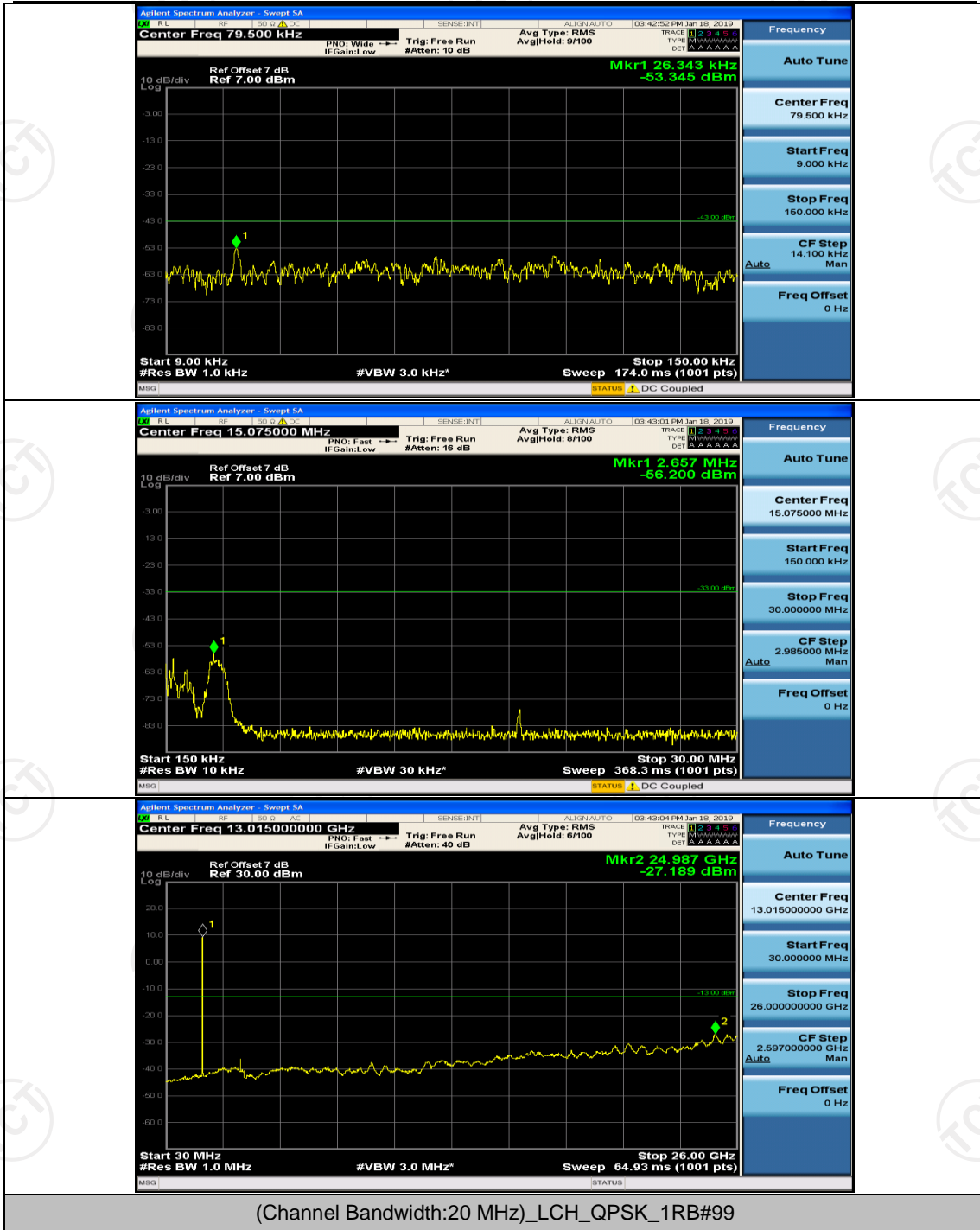
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

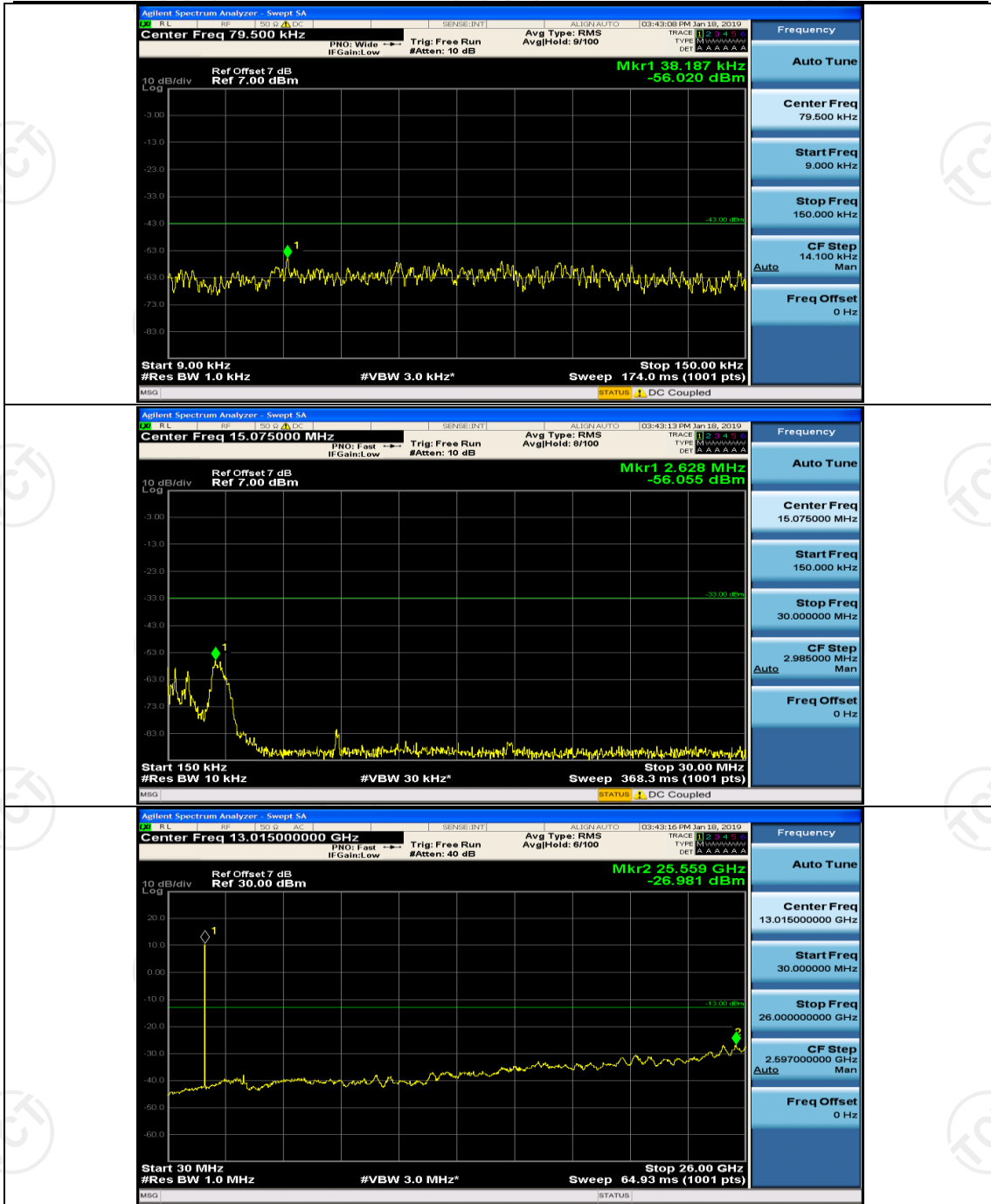




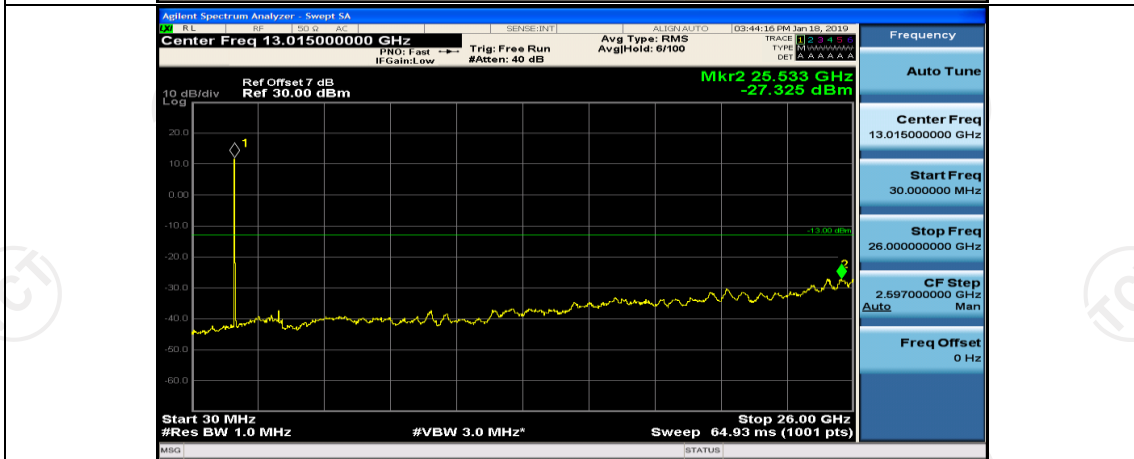
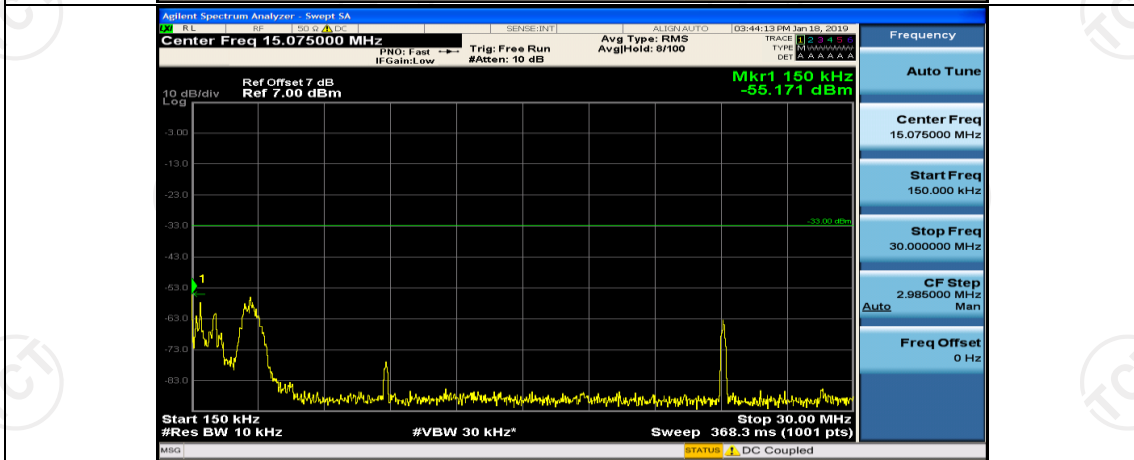
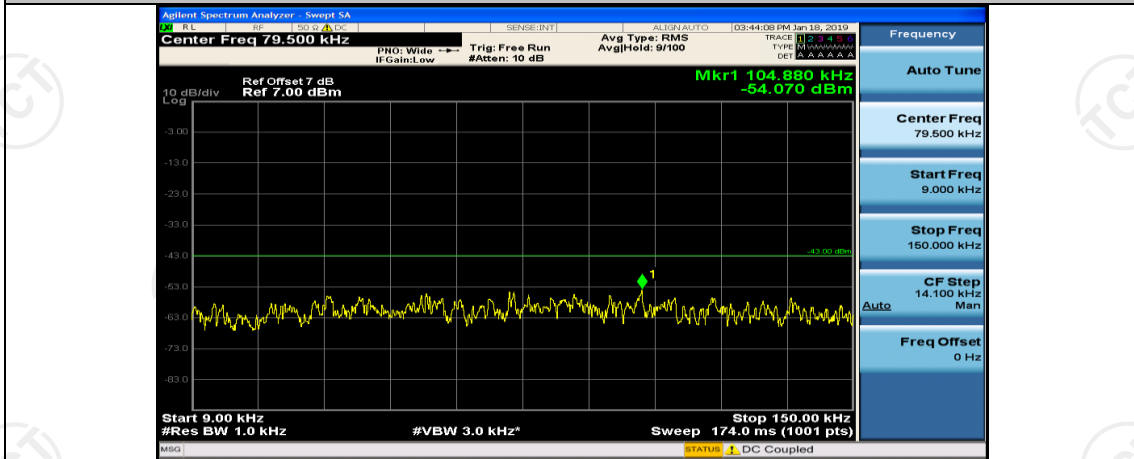
Channel Bandwidth: 20 MHz



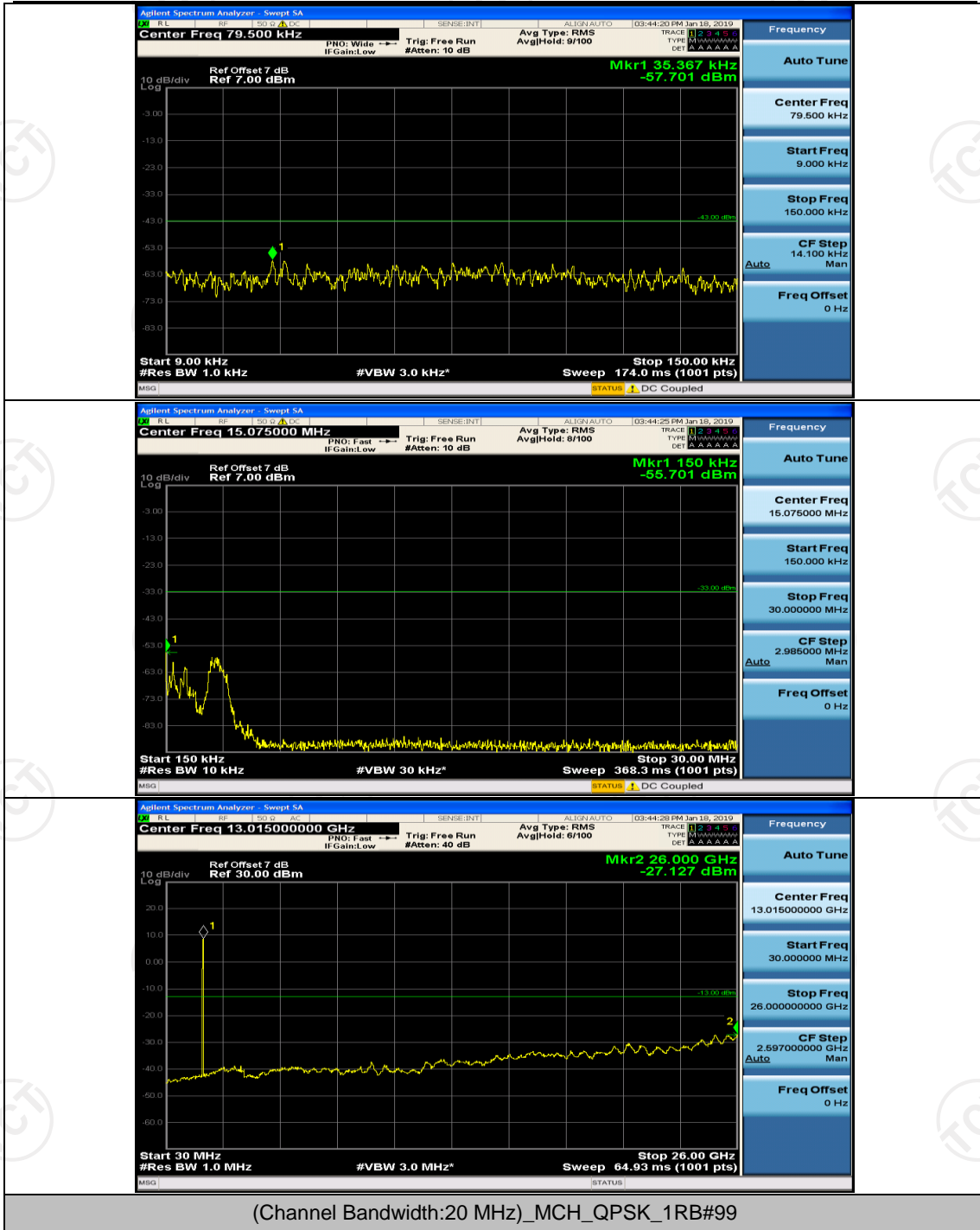


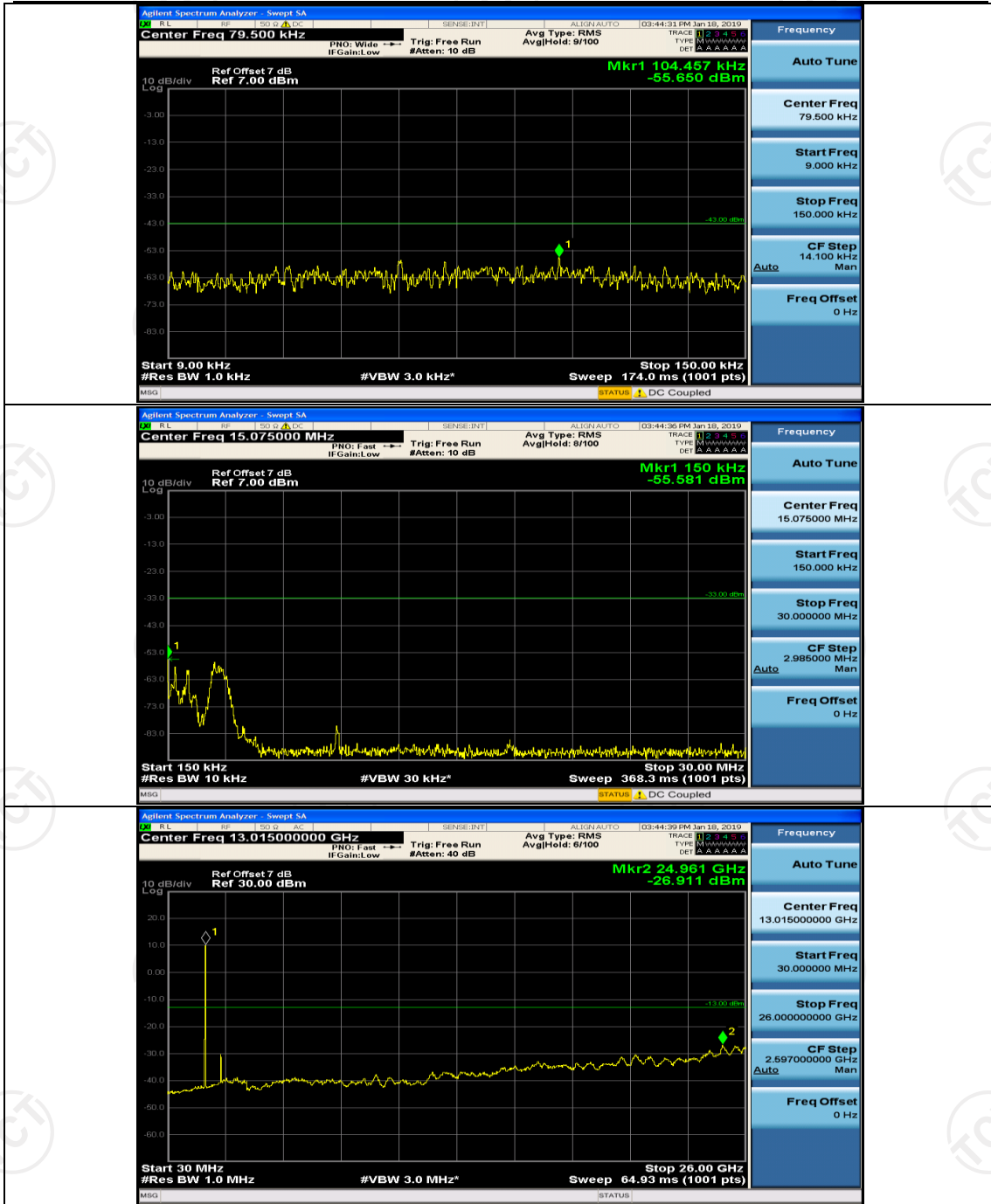


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

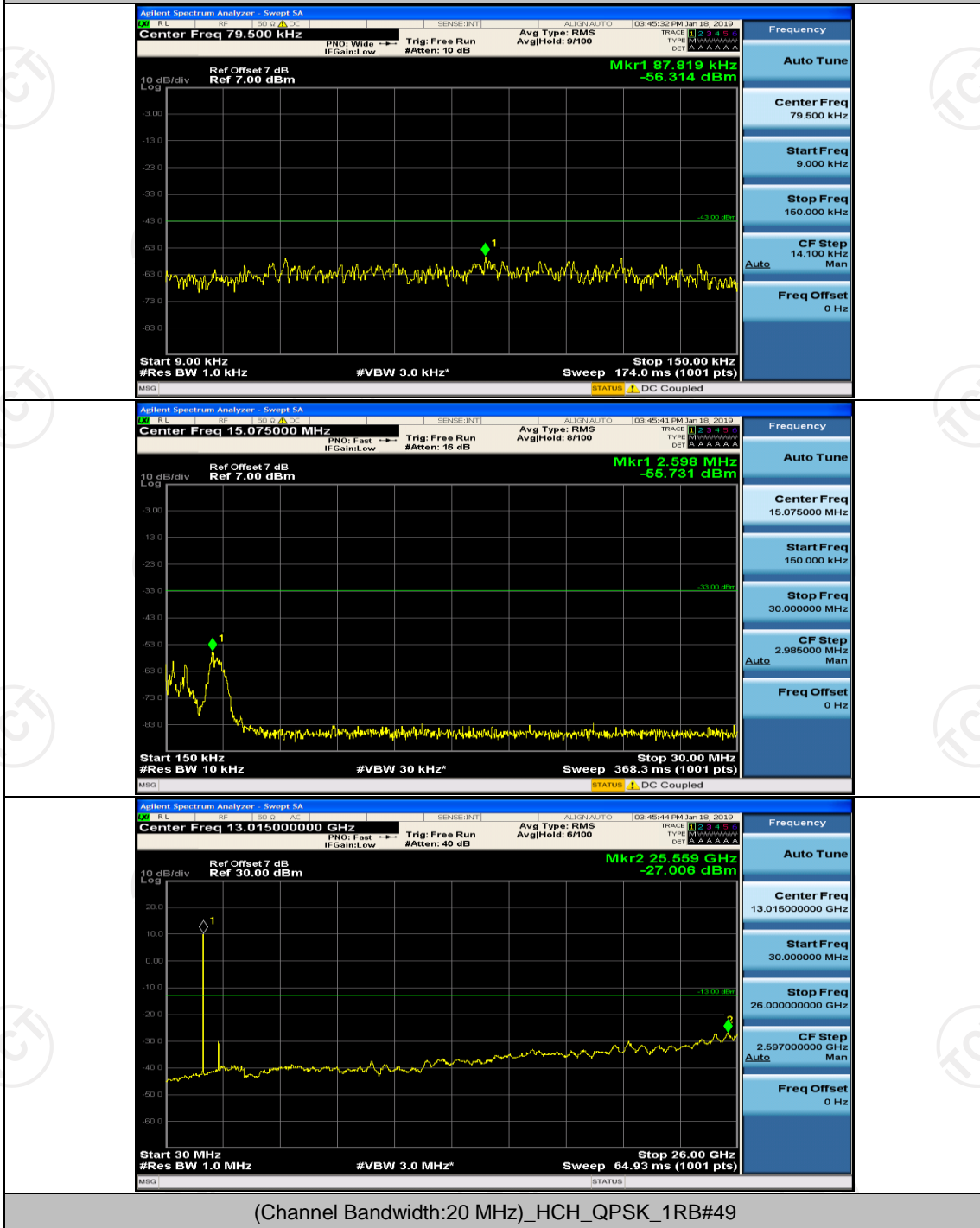


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

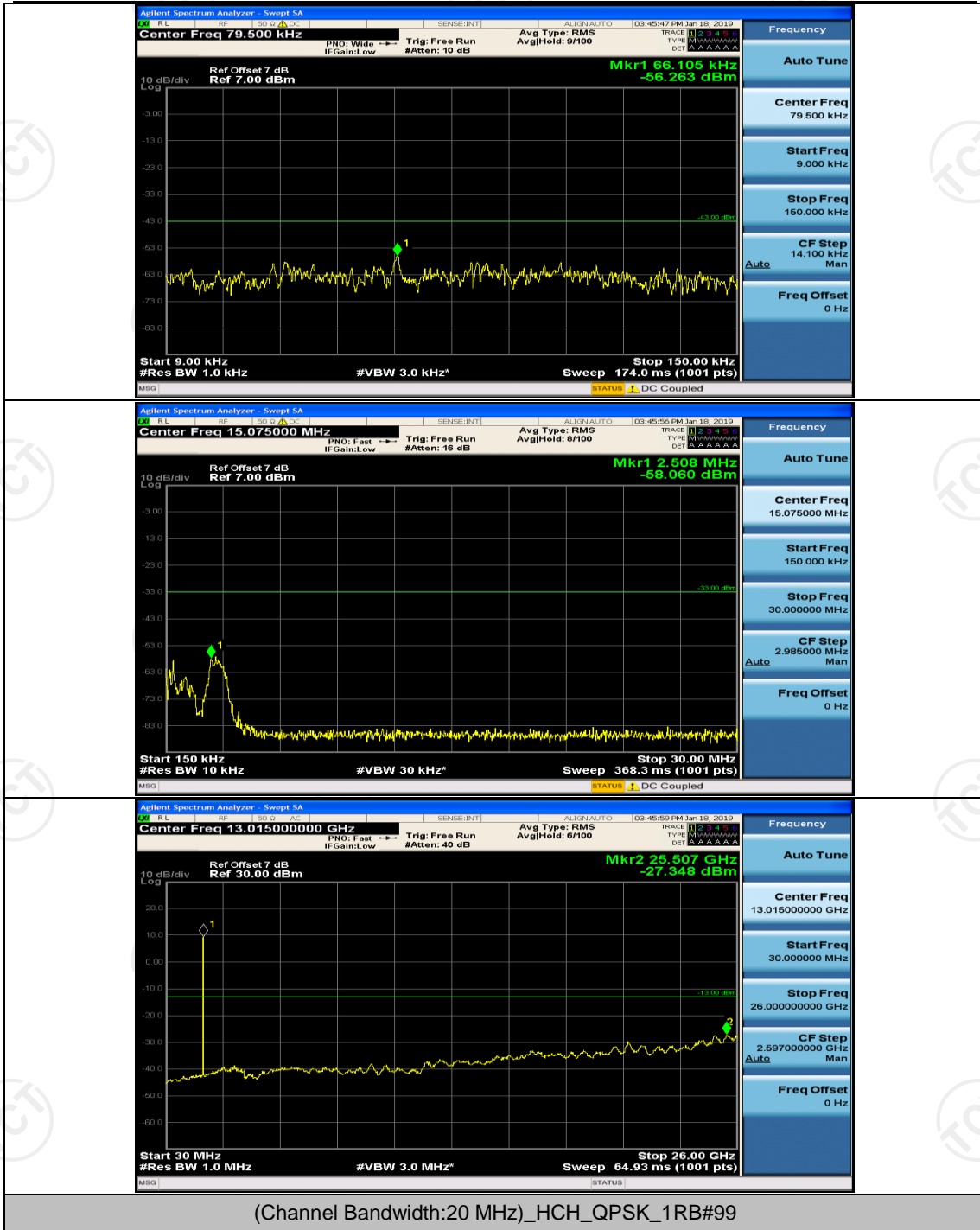


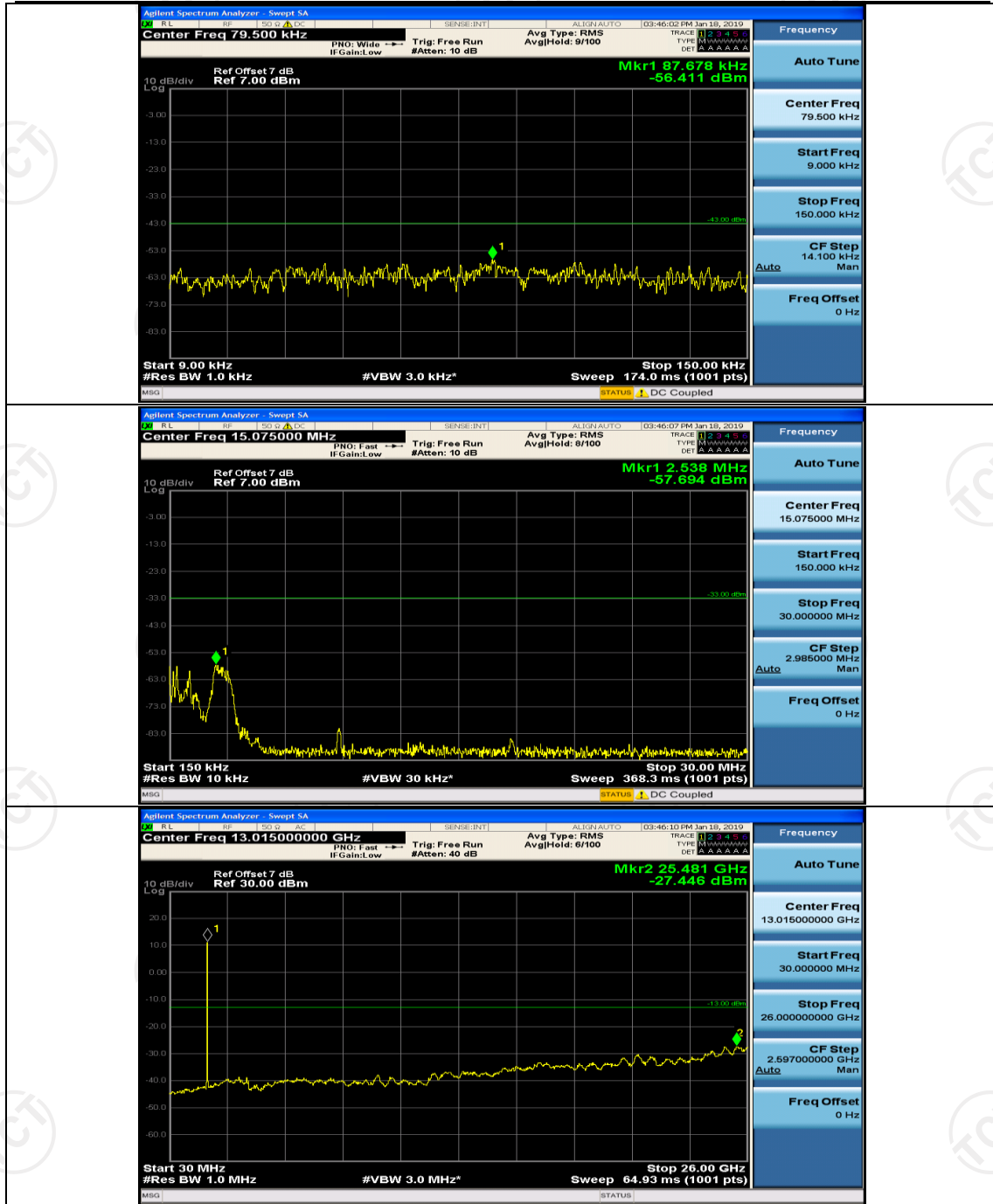


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

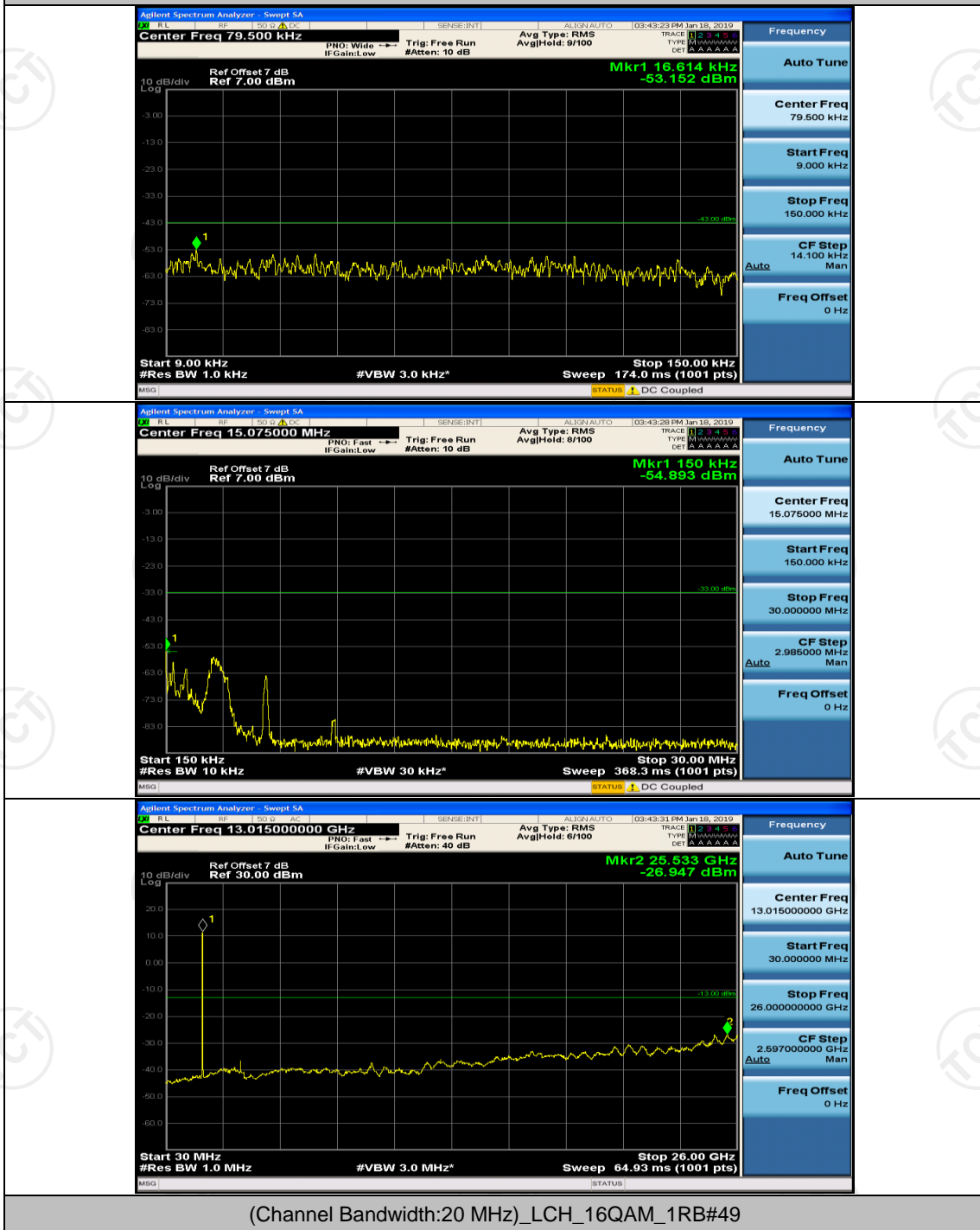


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

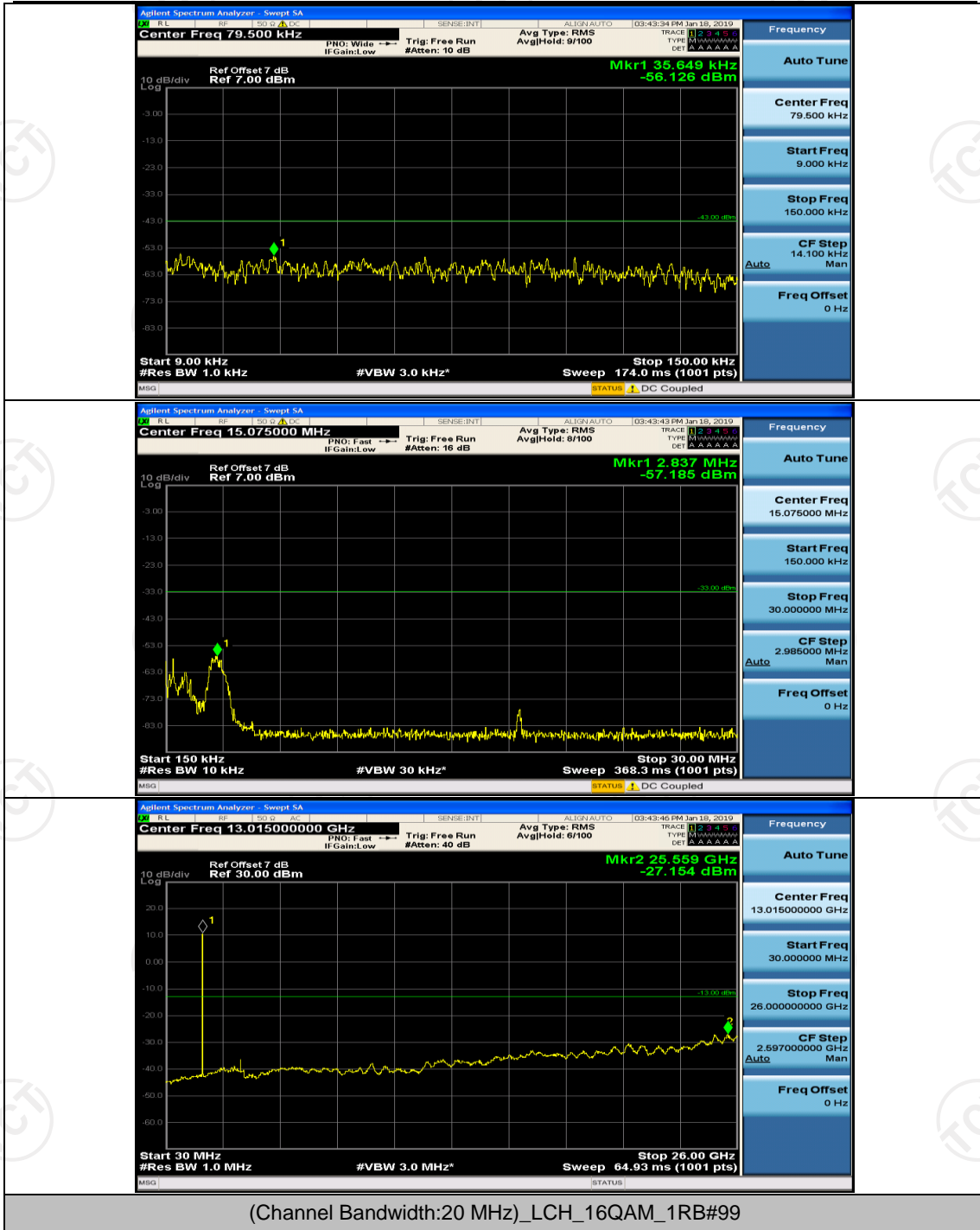


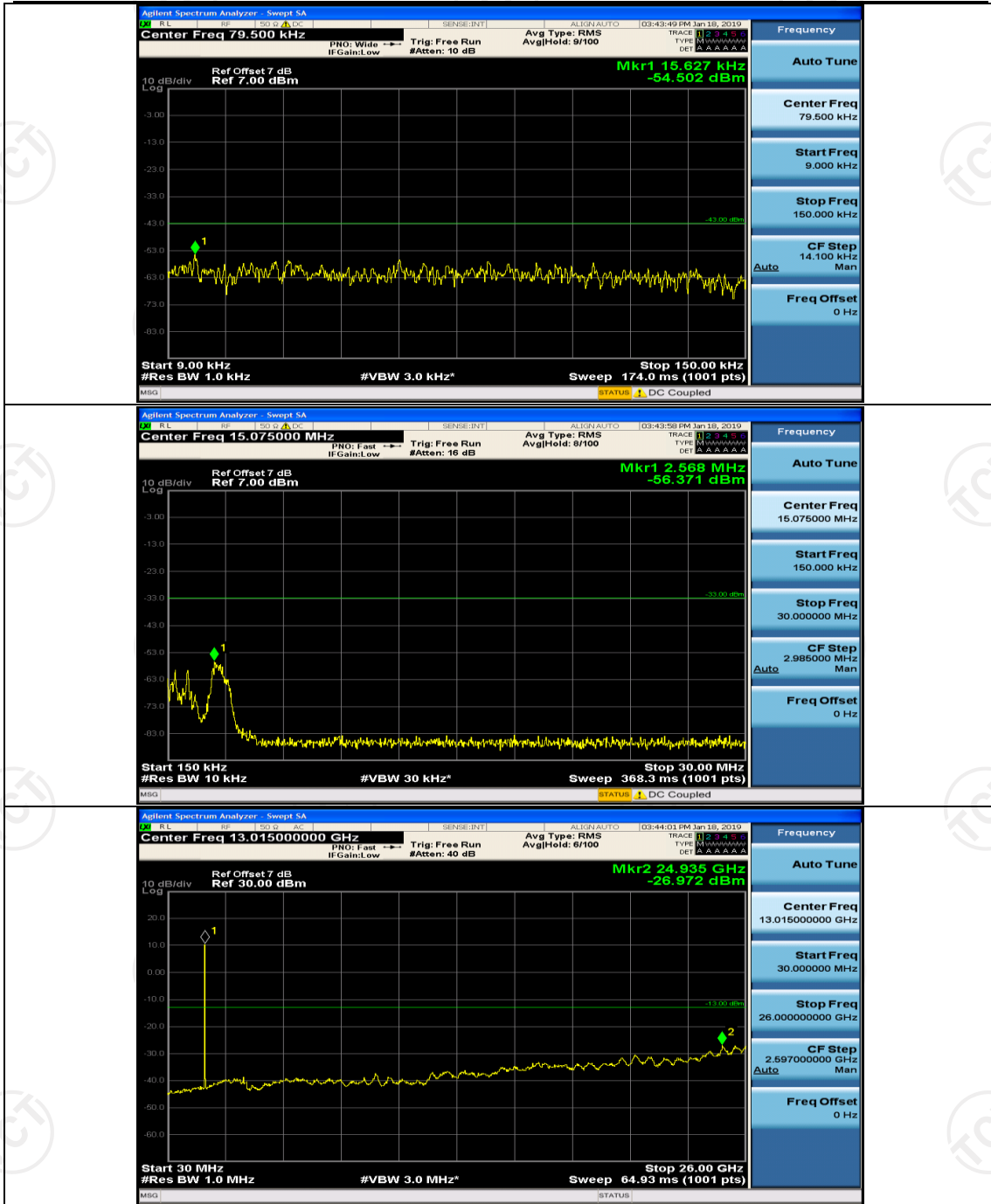


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

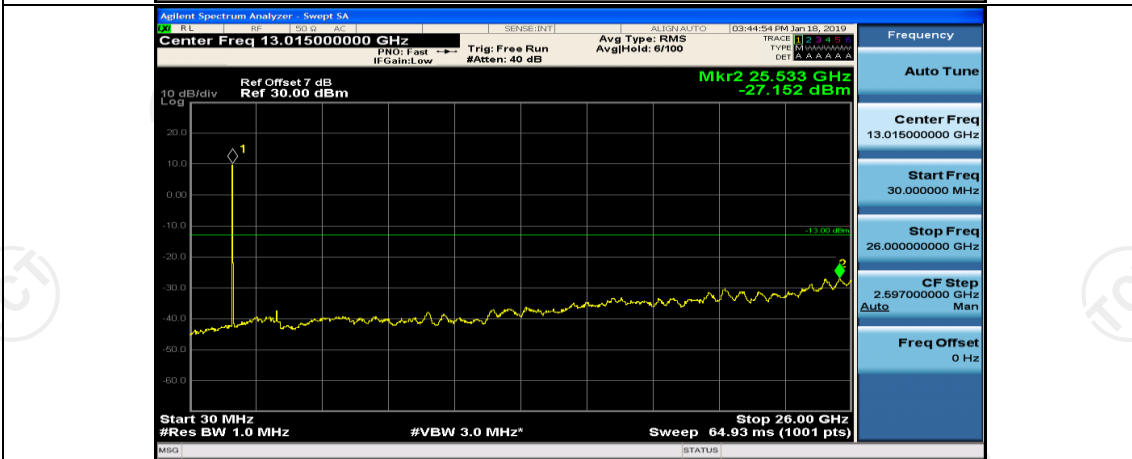
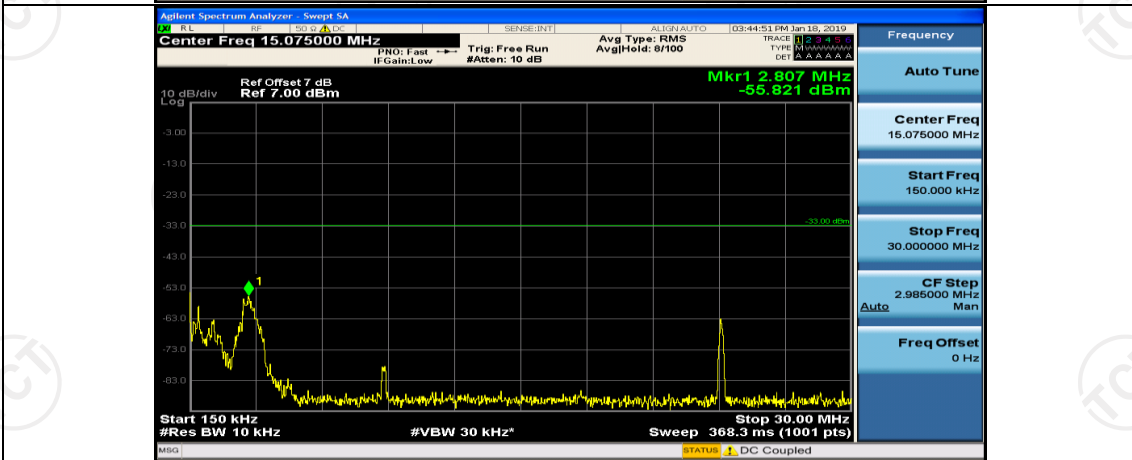
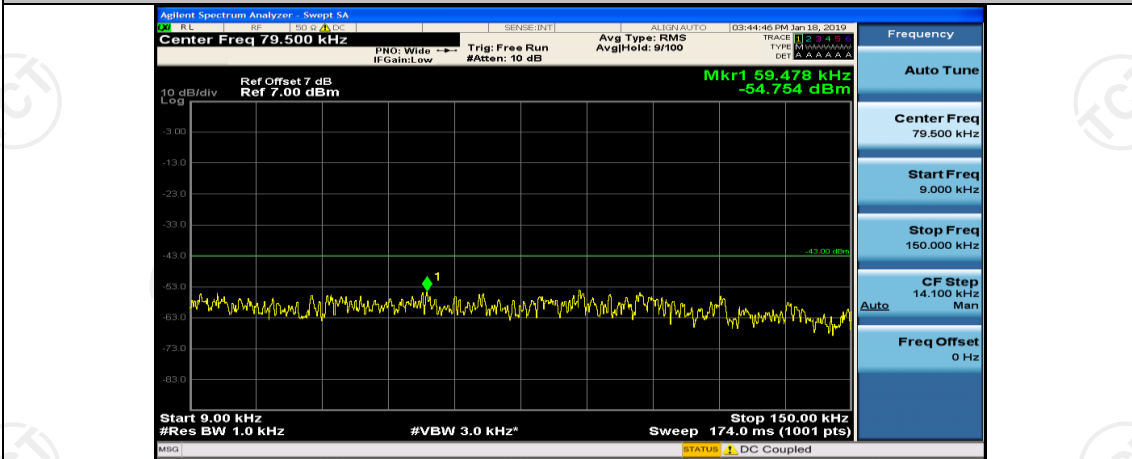


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

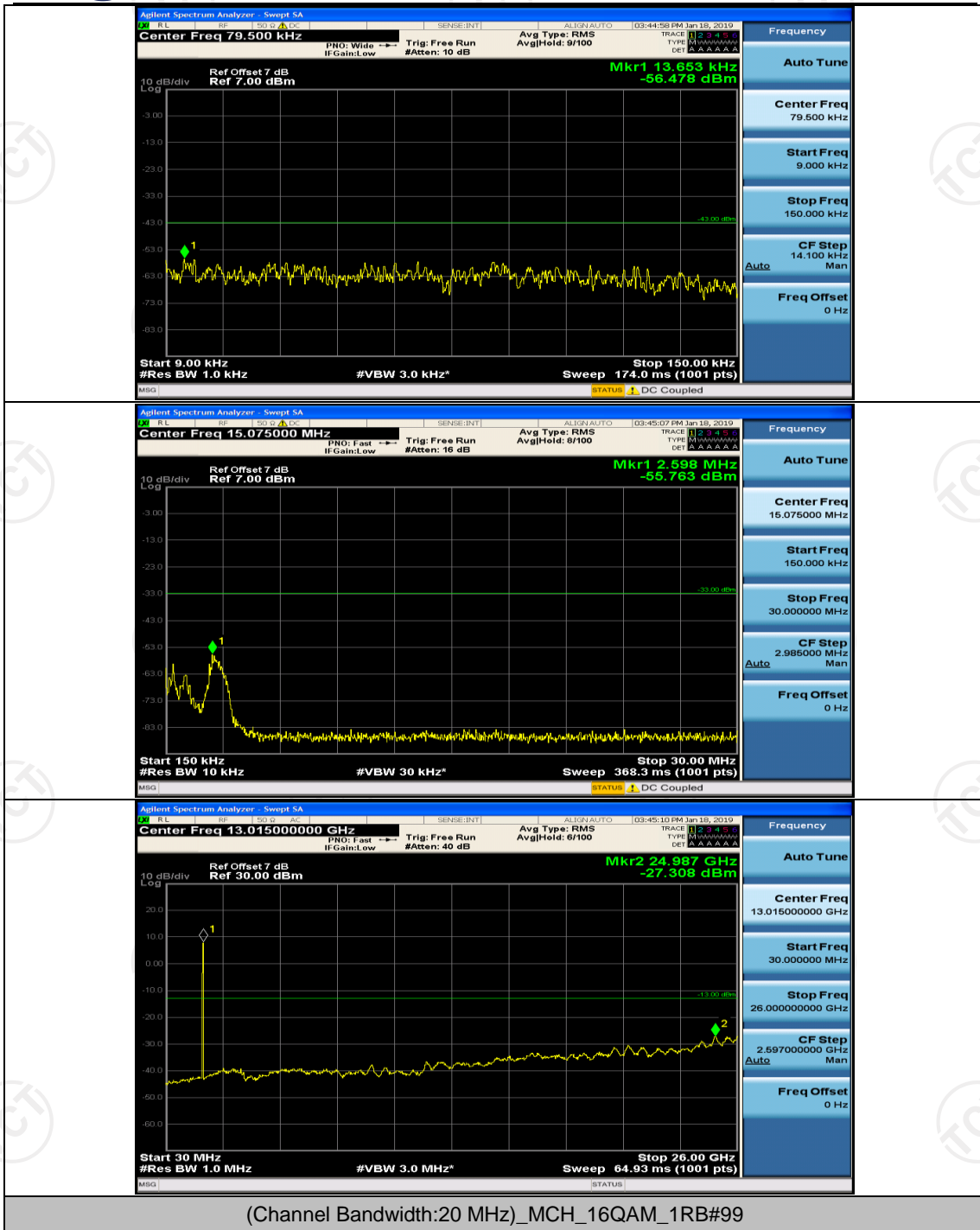


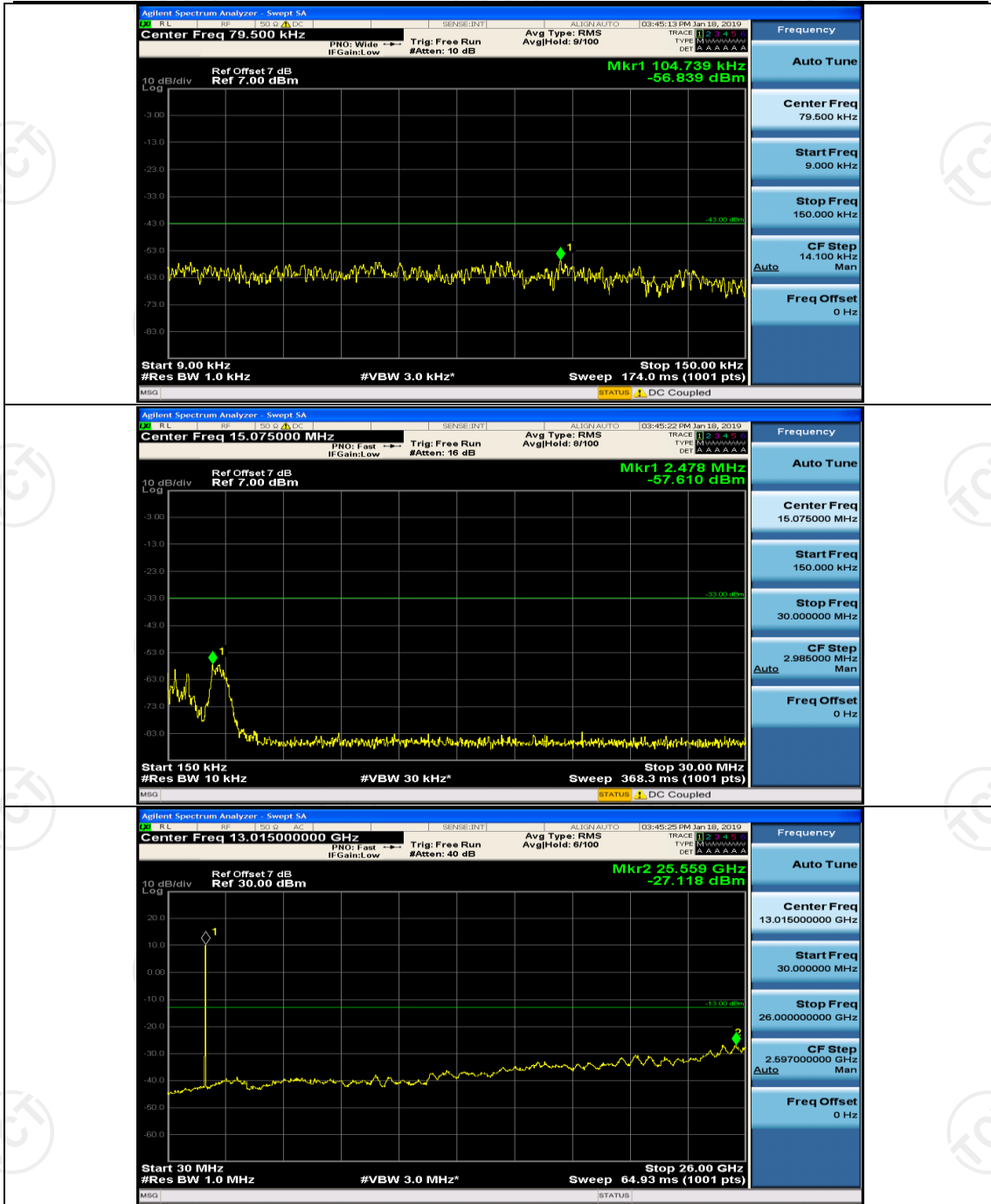


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

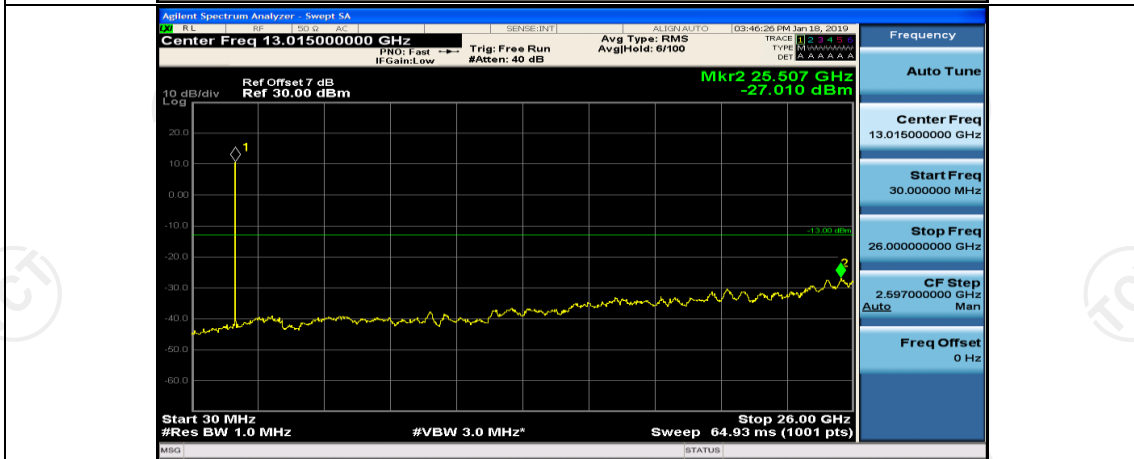
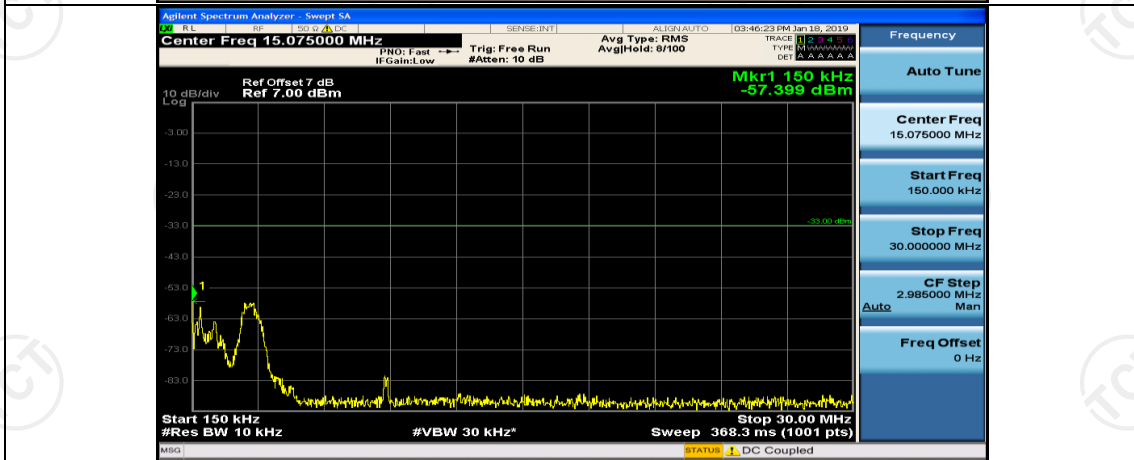
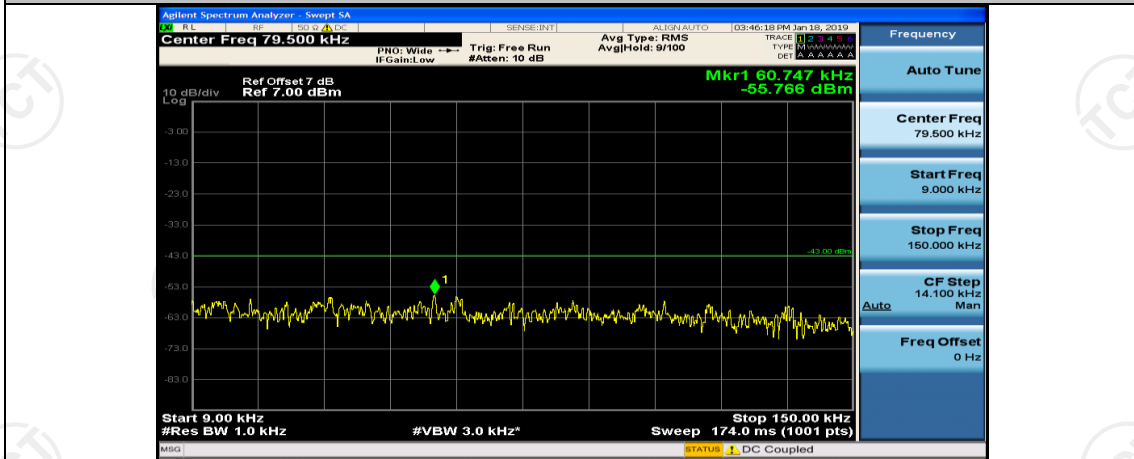


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

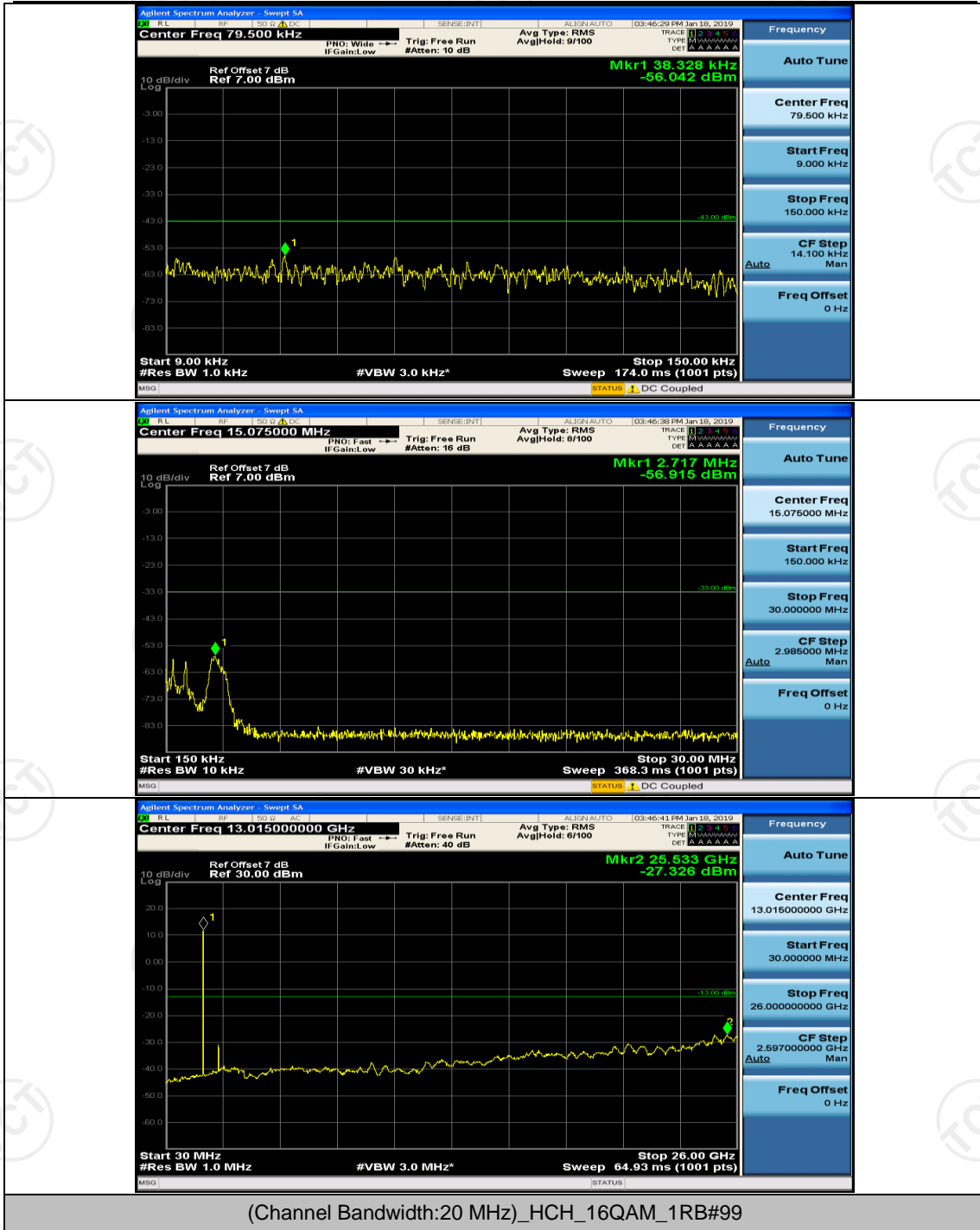


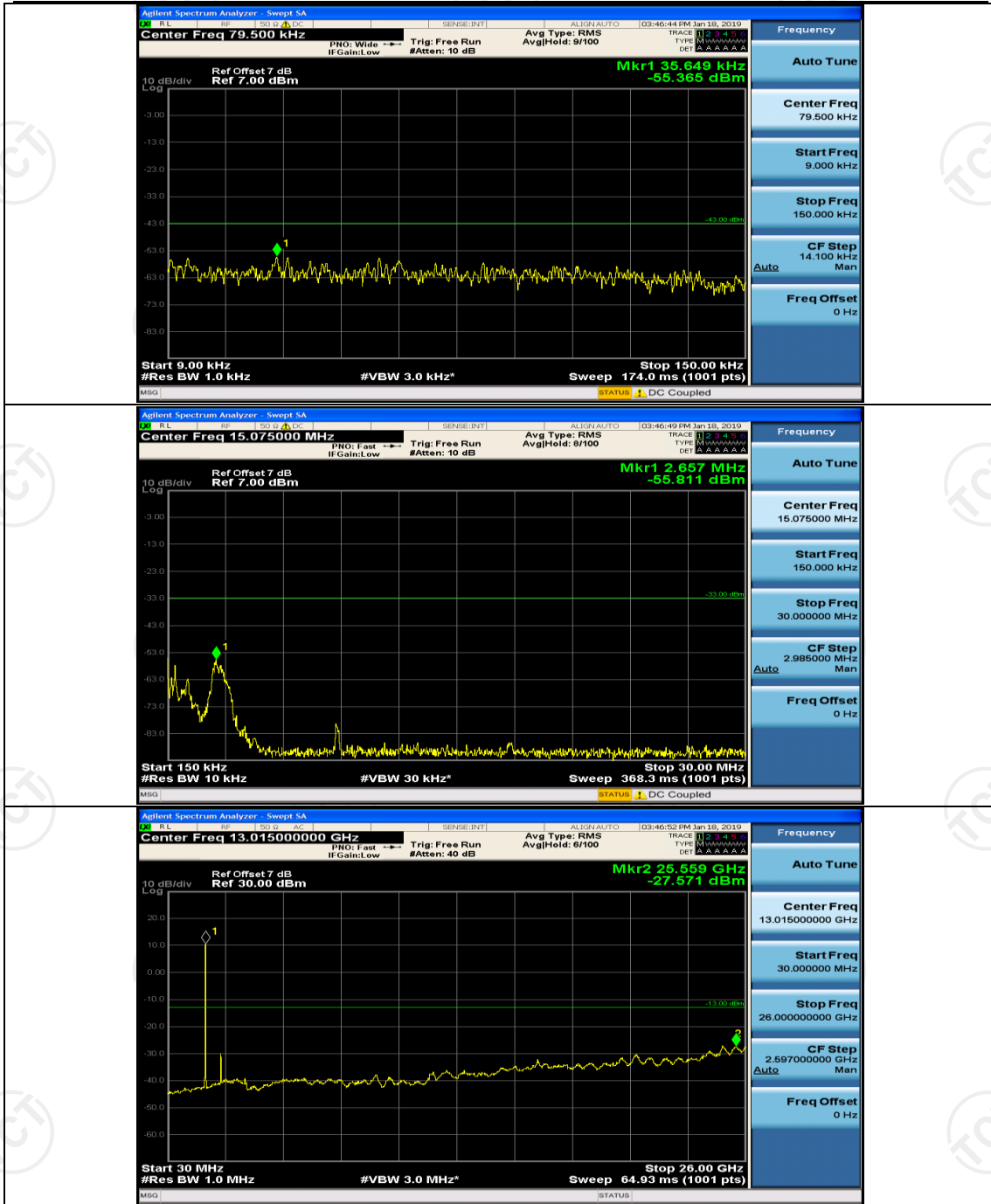


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	11.4	25	-0.007915	± 2.5	PASS
		12.0	25	-0.000594	± 2.5	PASS
		12.6	25	-0.014962	± 2.5	PASS
	MCH	11.4	25	-0.020393	± 2.5	PASS
		12.0	25	-0.022048	± 2.5	PASS
		12.6	25	-0.022614	± 2.5	PASS
	HCH	11.4	25	0.004849	± 2.5	PASS
		12.0	25	-0.006124	± 2.5	PASS
		12.6	25	-0.009132	± 2.5	PASS
16QAM	LCH	11.4	25	-0.010042	± 2.5	PASS
		12.0	25	-0.008854	± 2.5	PASS
		12.6	25	-0.007976	± 2.5	PASS
	MCH	11.4	25	-0.020393	± 2.5	PASS
		12.0	25	-0.017810	± 2.5	PASS
		12.6	25	-0.017744	± 2.5	PASS
	HCH	11.4	25	-0.017761	± 2.5	PASS
		12.0	25	-0.018066	± 2.5	PASS
		12.6	25	-0.008821	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	12.0	-30	0.002684	± 2.5	PASS
		12.0	-20	0.003712	± 2.5	PASS
		12.0	-10	0.003328	± 2.5	PASS
		12.0	0	0.003394	± 2.5	PASS
		12.0	10	0.003754	± 2.5	PASS
		12.0	20	-0.001112	± 2.5	PASS
		12.0	30	0.000226	± 2.5	PASS
		12.0	40	-0.000811	± 2.5	PASS
	MCH	12.0	50	-0.003796	± 2.5	PASS
		12.0	-30	-0.015251	± 2.5	PASS
		12.0	-20	-0.014895	± 2.5	PASS
		12.0	-10	-0.015564	± 2.5	PASS
		12.0	0	-0.015440	± 2.5	PASS
		12.0	10	0.007521	± 2.5	PASS
		12.0	20	-0.017827	± 2.5	PASS
		12.0	30	0.005350	± 2.5	PASS
12.0	40	0.004789	± 2.5	PASS		

	HCH	12.0	50	0.002130	± 2.5	PASS
		12.0	-30	0.000652	± 2.5	PASS
		12.0	-20	-0.001905	± 2.5	PASS
		12.0	-10	-0.002272	± 2.5	PASS
		12.0	0	-0.005697	± 2.5	PASS
		12.0	10	0.010252	± 2.5	PASS
		12.0	20	-0.008187	± 2.5	PASS
		12.0	30	-0.009492	± 2.5	PASS
		12.0	40	-0.011489	± 2.5	PASS
		12.0	50	-0.012443	± 2.5	PASS
16QAM	LCH	12.0	-30	-0.006599	± 2.5	PASS
		12.0	-20	-0.009038	± 2.5	PASS
		12.0	-10	-0.009055	± 2.5	PASS
		12.0	0	-0.009514	± 2.5	PASS
		12.0	10	0.004313	± 2.5	PASS
		12.0	20	-0.001597	± 2.5	PASS
		12.0	30	-0.003328	± 2.5	PASS
		12.0	40	-0.003596	± 2.5	PASS
		12.0	50	-0.002693	± 2.5	PASS
	MCH	12.0	-30	0.009844	± 2.5	PASS
		12.0	-20	0.011836	± 2.5	PASS
		12.0	-10	0.009958	± 2.5	PASS
		12.0	0	0.008808	± 2.5	PASS
		12.0	10	0.003446	± 2.5	PASS
		12.0	20	-0.000215	± 2.5	PASS
		12.0	30	-0.001973	± 2.5	PASS
		12.0	40	-0.002461	± 2.5	PASS
		12.0	50	-0.002246	± 2.5	PASS
	HCH	12.0	-30	0.007971	± 2.5	PASS
		12.0	-20	0.008487	± 2.5	PASS
		12.0	-10	0.007838	± 2.5	PASS
		12.0	0	0.006605	± 2.5	PASS
		12.0	10	-0.014532	± 2.5	PASS
		12.0	20	-0.014148	± 2.5	PASS
		12.0	30	-0.014107	± 2.5	PASS
		12.0	40	-0.015803	± 2.5	PASS
		12.0	50	-0.017793	± 2.5	PASS

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	-25.37	-13.00	PASS
5132.1	V	-31.43		
-	V	-		
3421.4	Horizontal	-23.45		
5132.1	H	-29.51		
-	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	-26.33	-13.00	PASS
5197.5	V	-32.08		
-	V	-		
3465	Horizontal	-24.59		
5197.5	H	-30.78		
-	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	-26.34	-13.00	PASS
5262.9	V	-32.16		
-	V	-		
3508.6	Horizontal	-26.41		
5262.9	H	-30.58		
-	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	-26.71	-13.00	PASS
5132.1	V	-33.34		
-	V	-		
3421.4	Horizontal	-25.61		
5132.1	H	-32.75		
-	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	-27.58	-13.00	PASS
5197.5	V	-33.69		
-	V	-		
3465	Horizontal	-26.88		
5197.5	H	-34.03		
-	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	-27.31	-13.00	PASS
5262.9	V	-33.64		
-	V	-		
3508.6	Horizontal	-26.82		
5262.9	H	-33.47		
-	H	-		

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