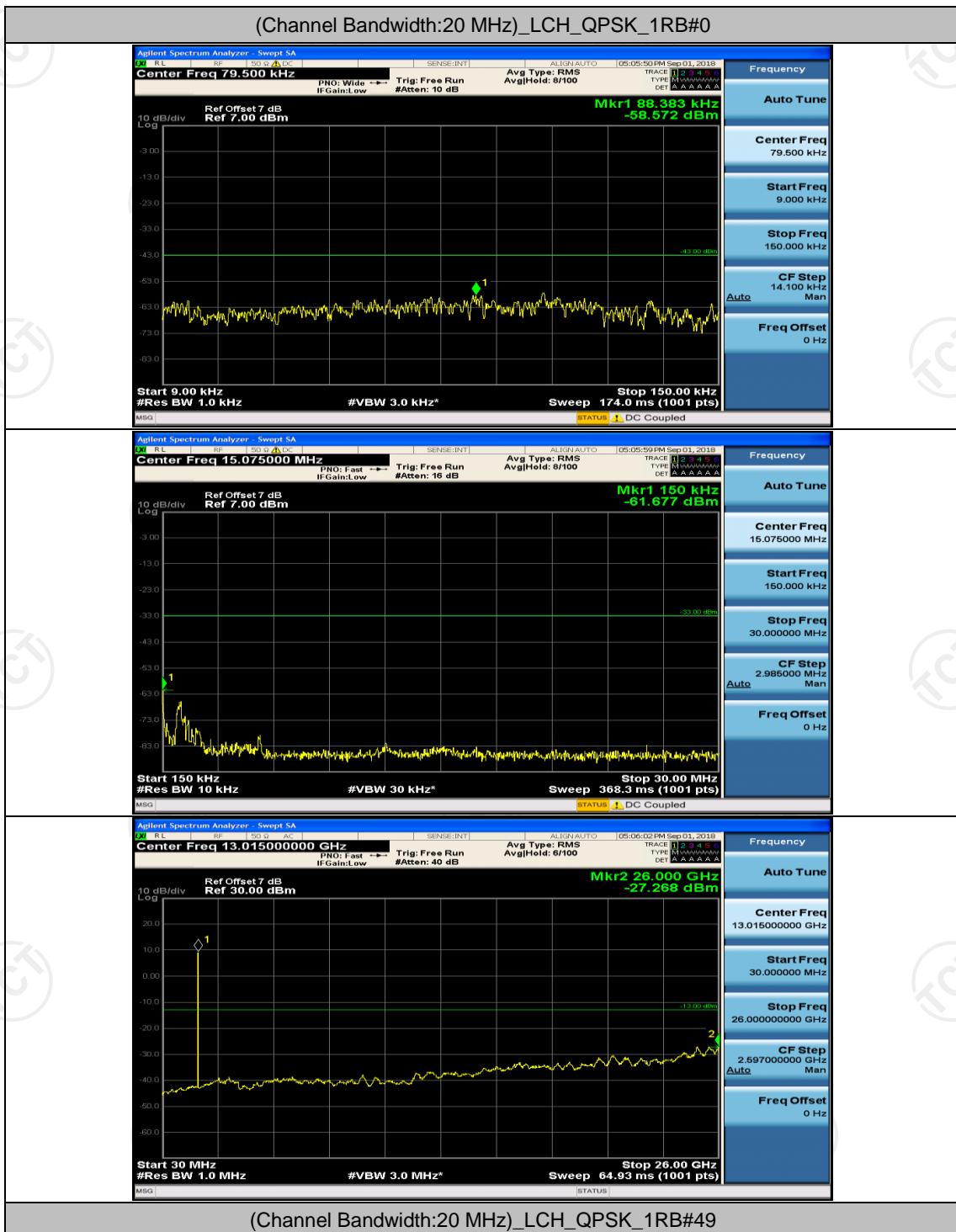
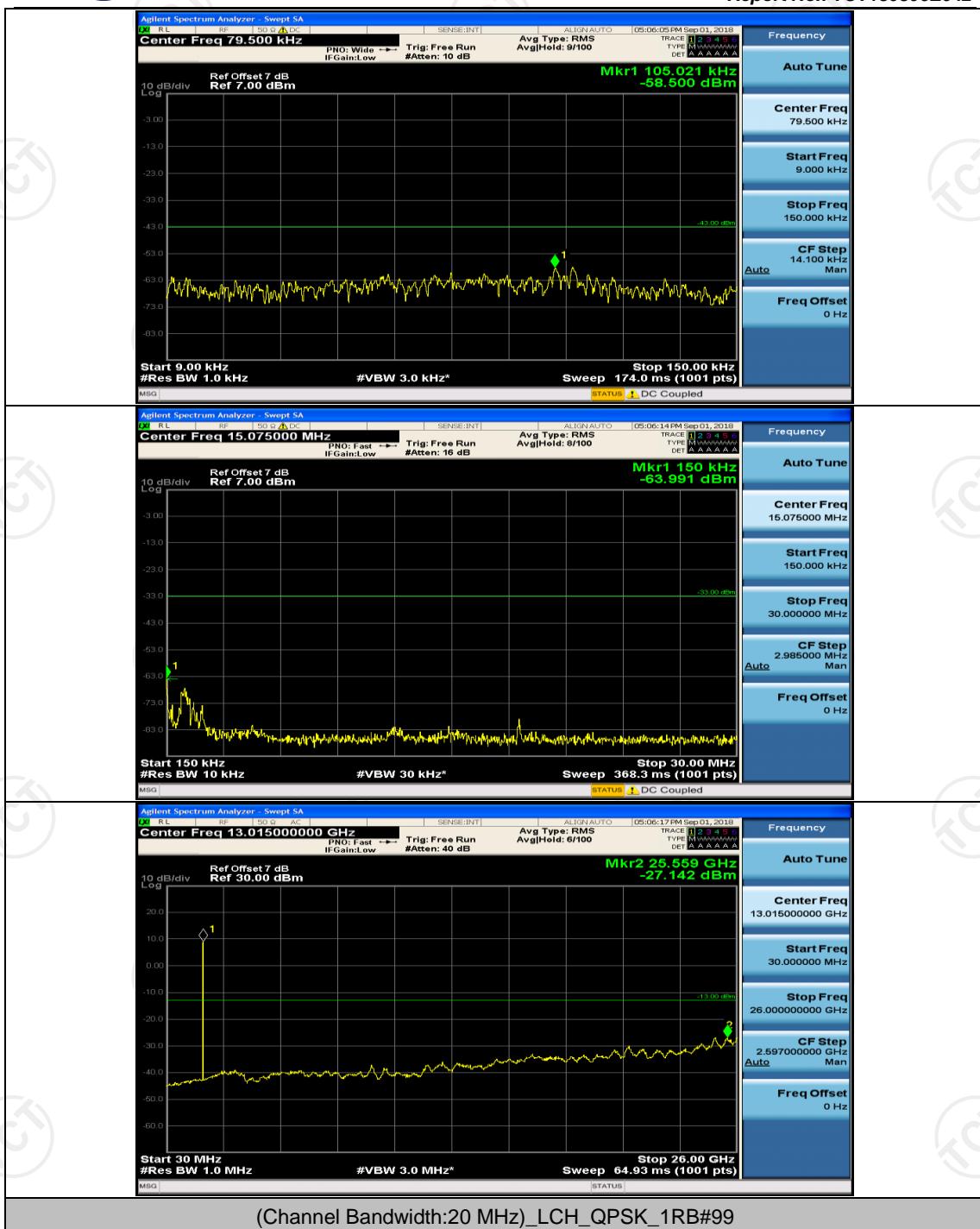
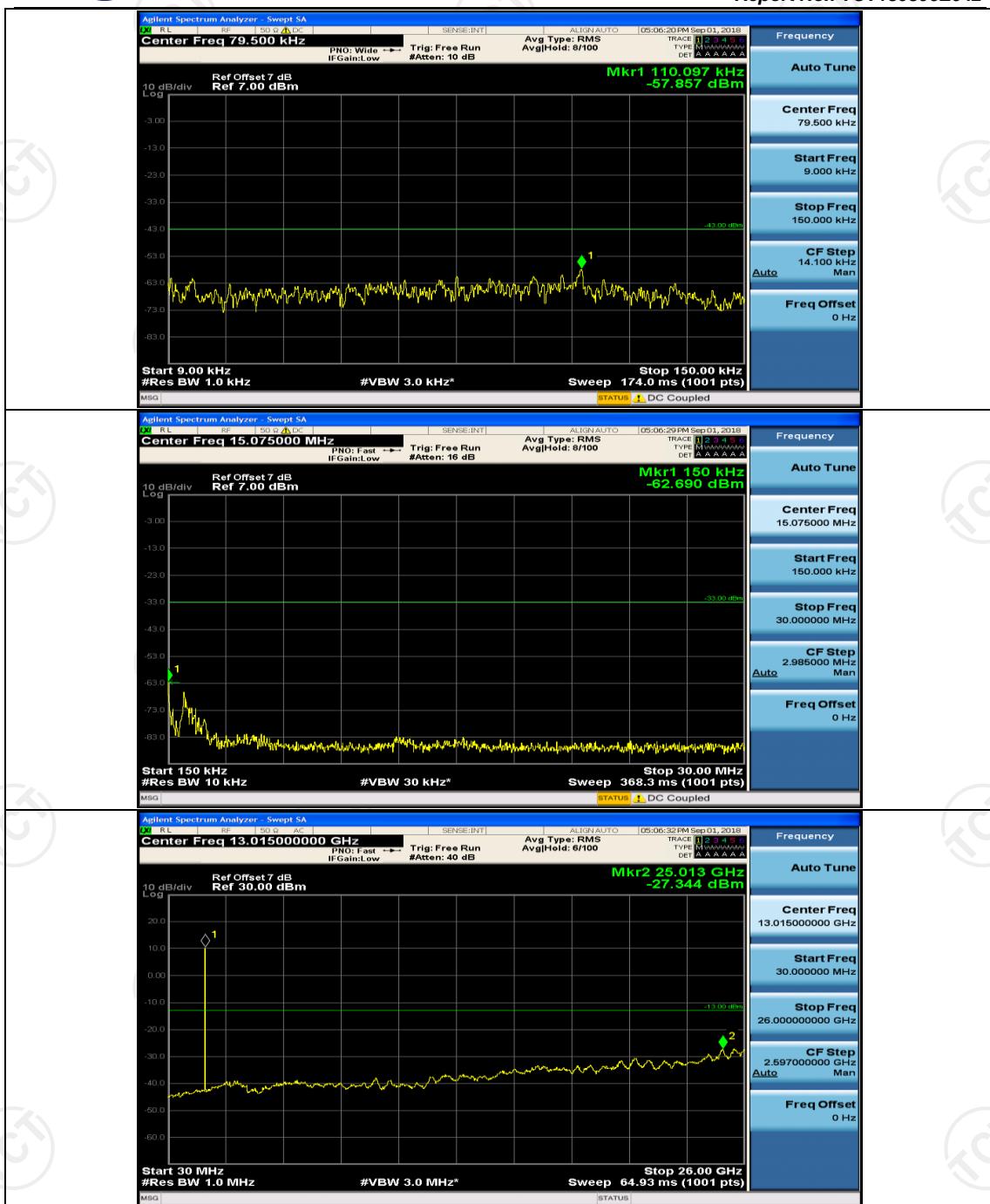
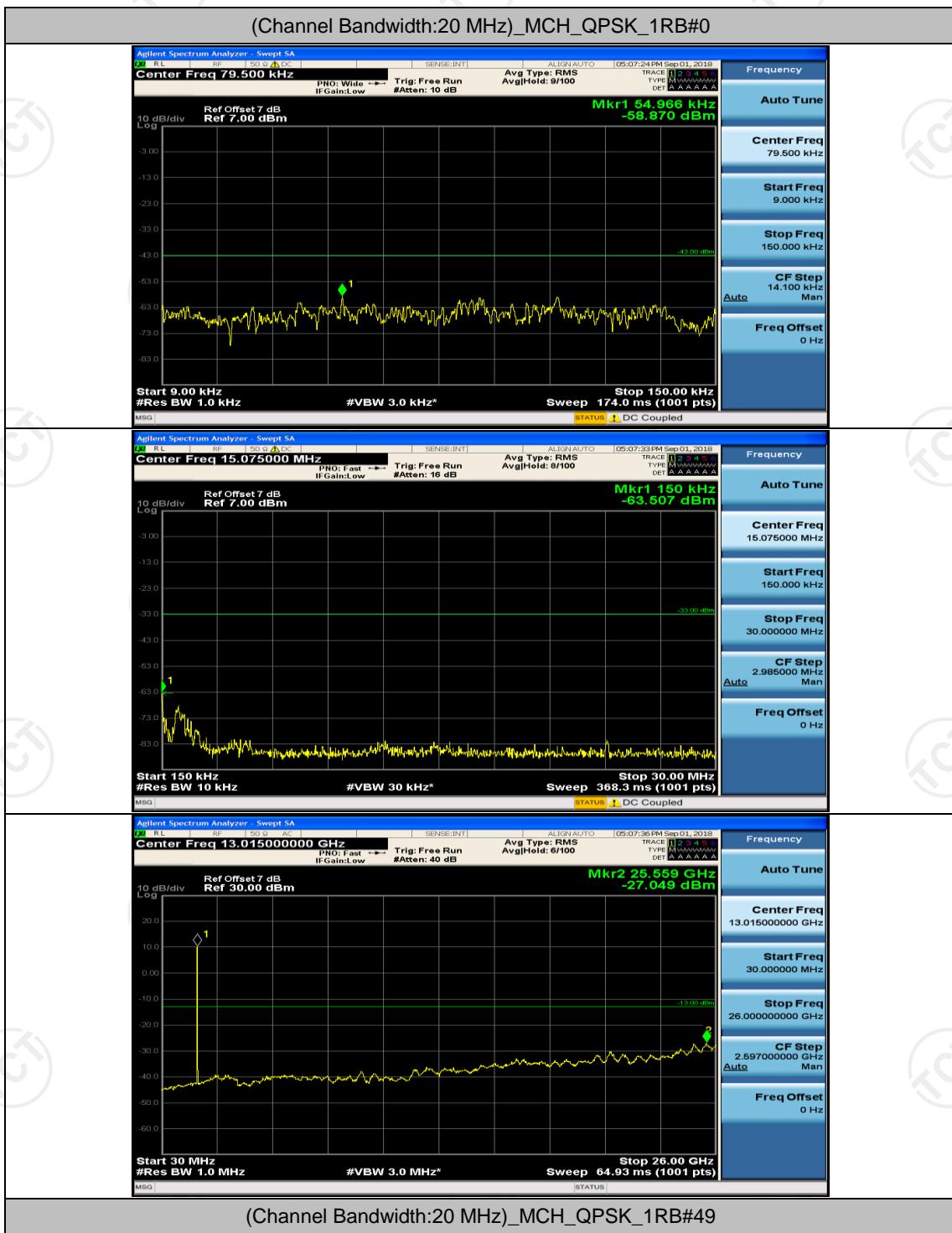


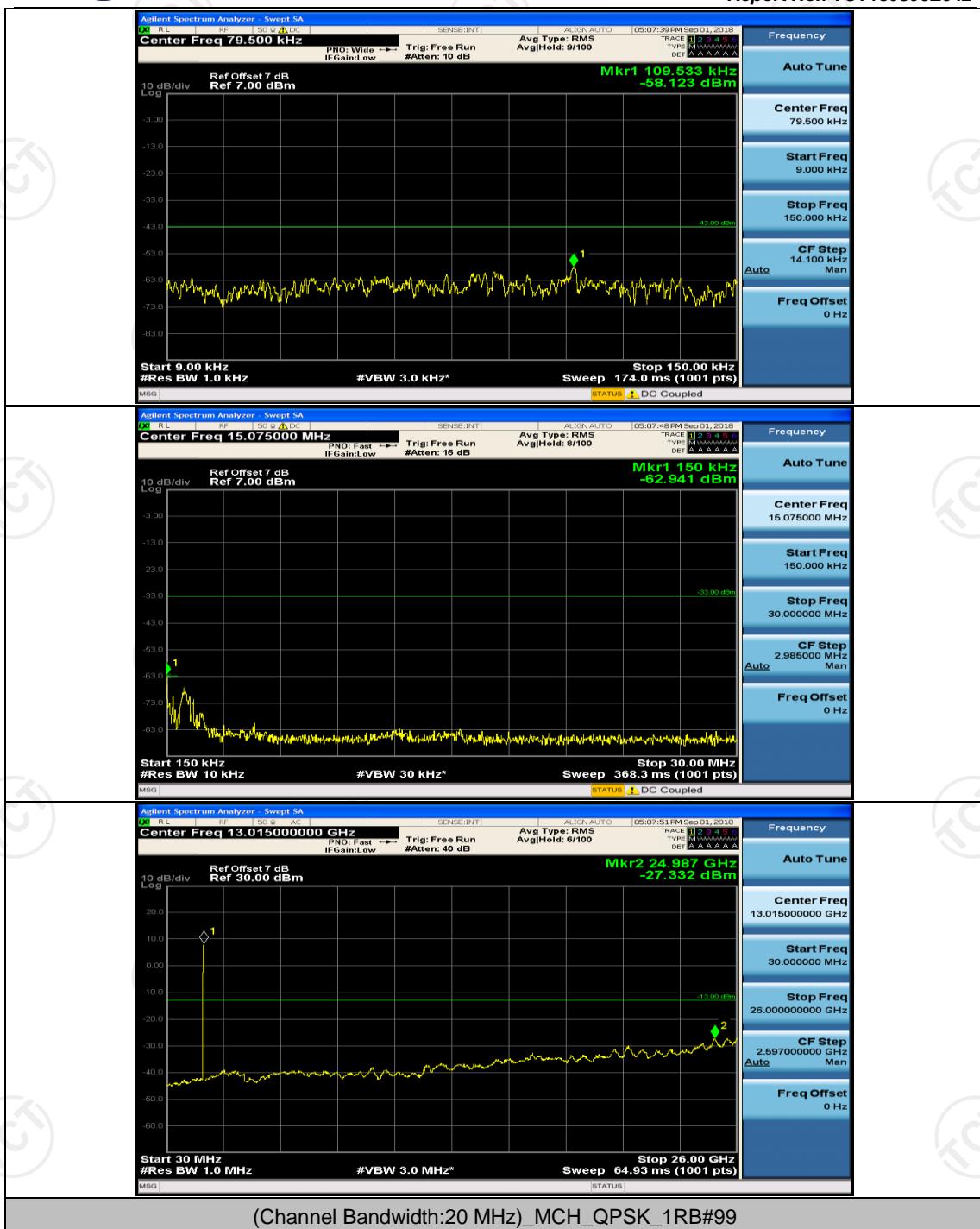
Channel Bandwidth: 20 MHz

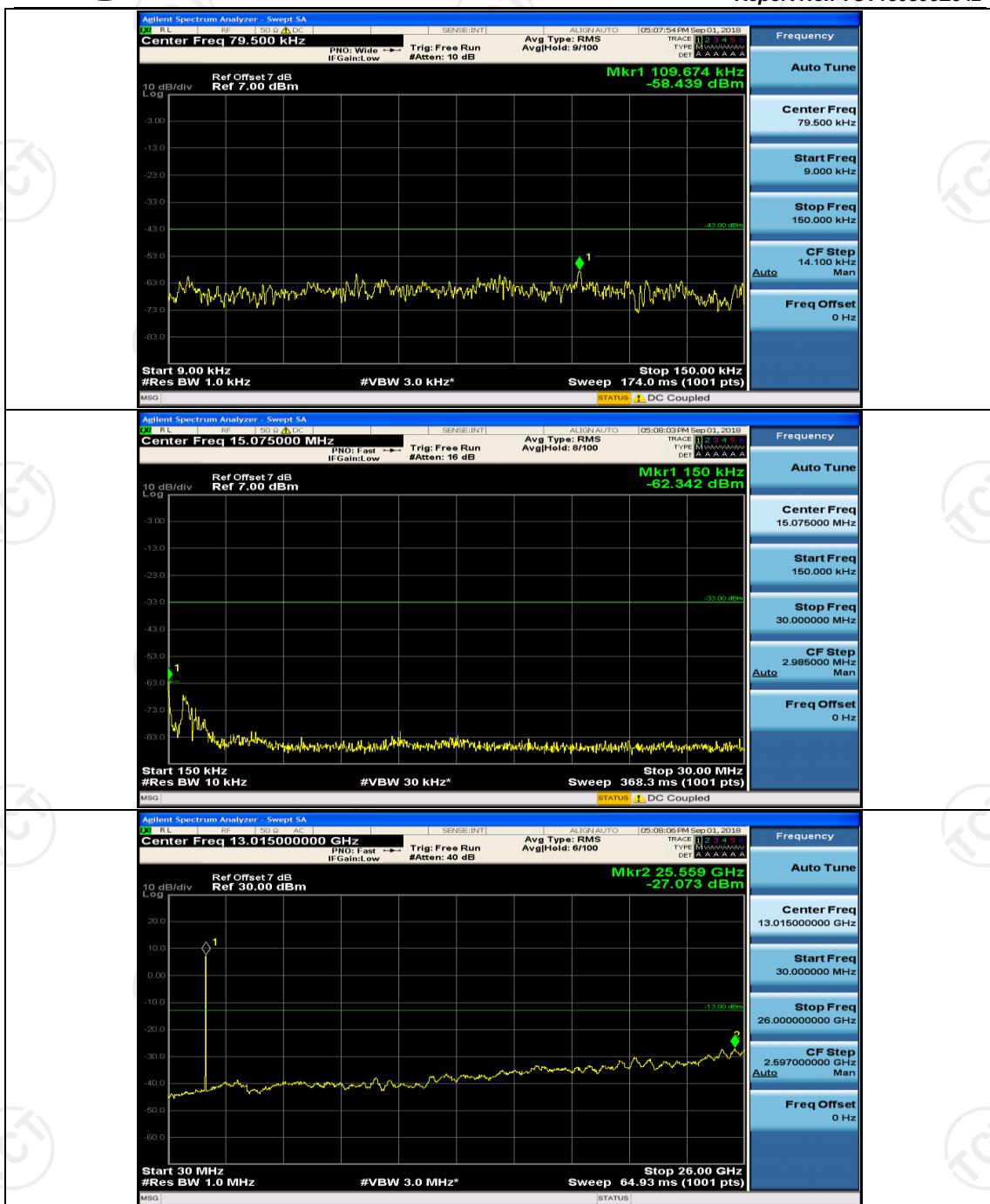


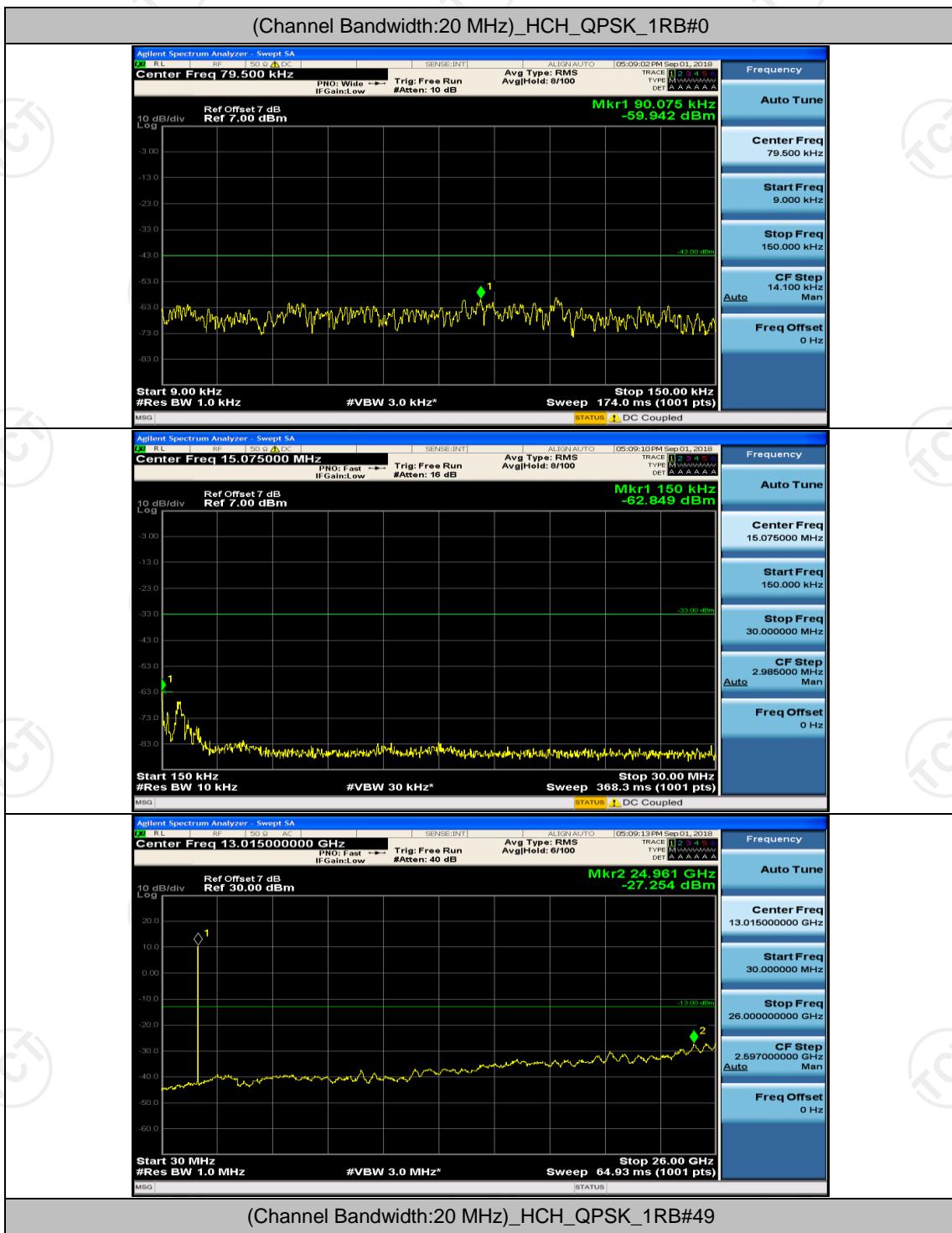


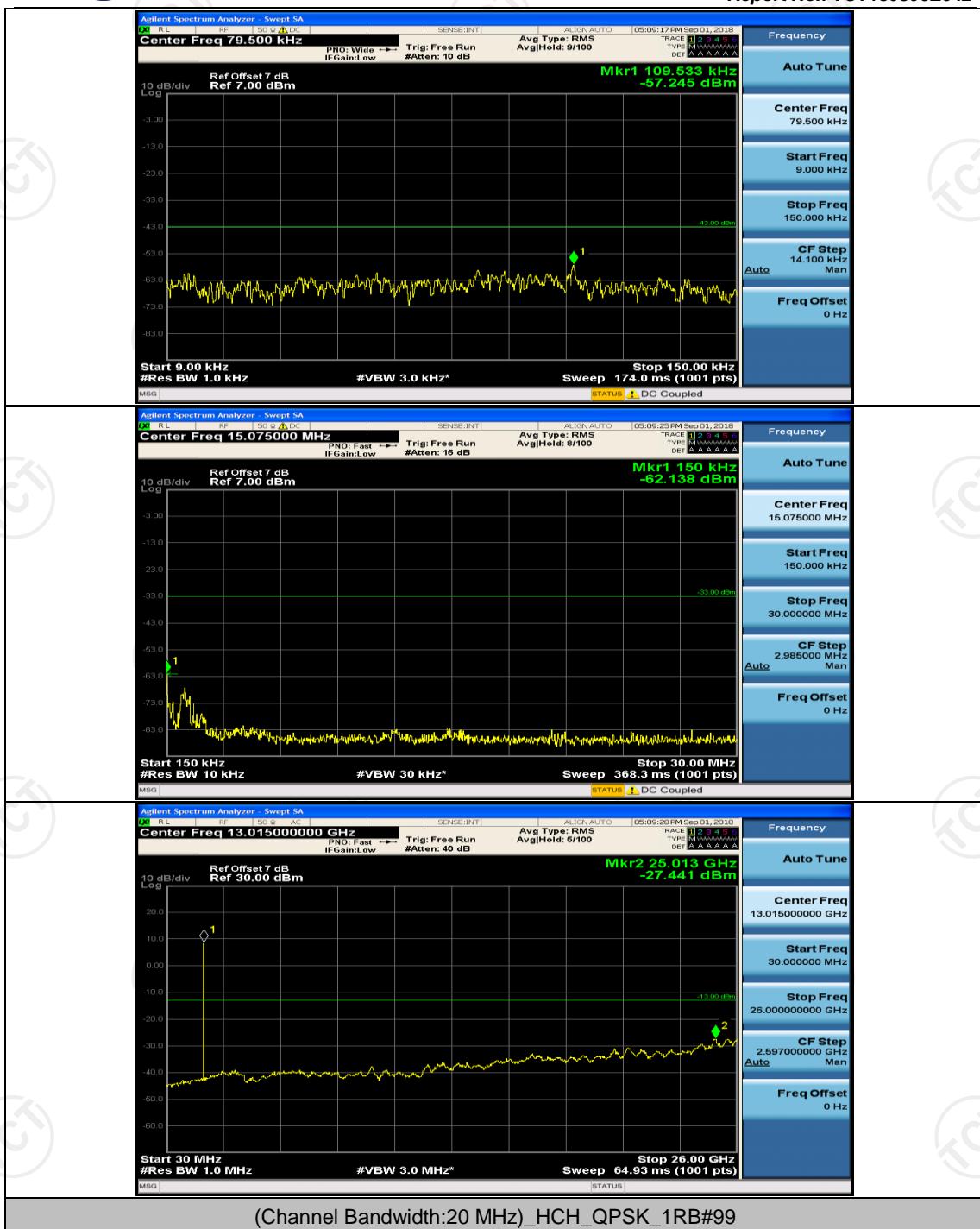


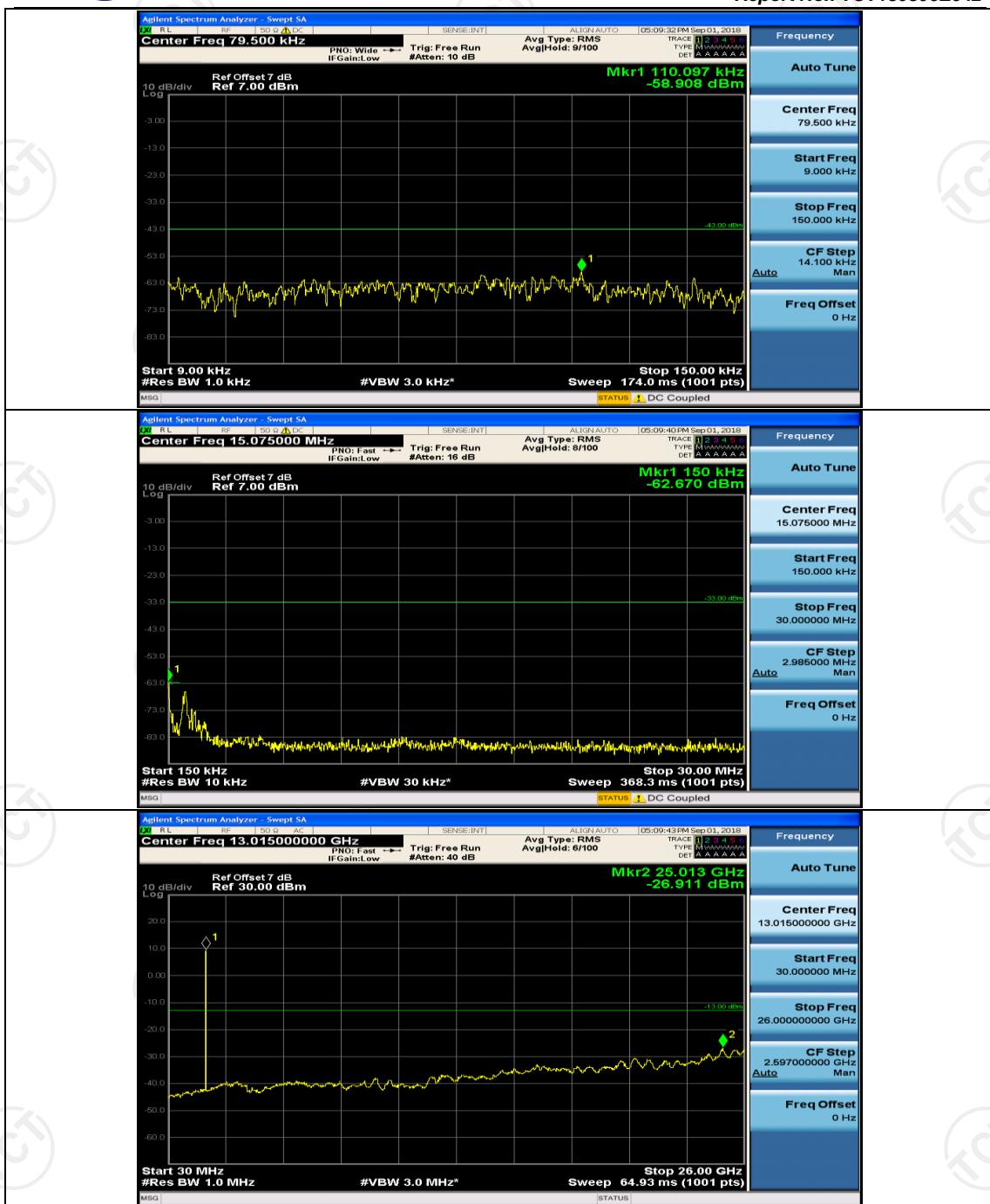


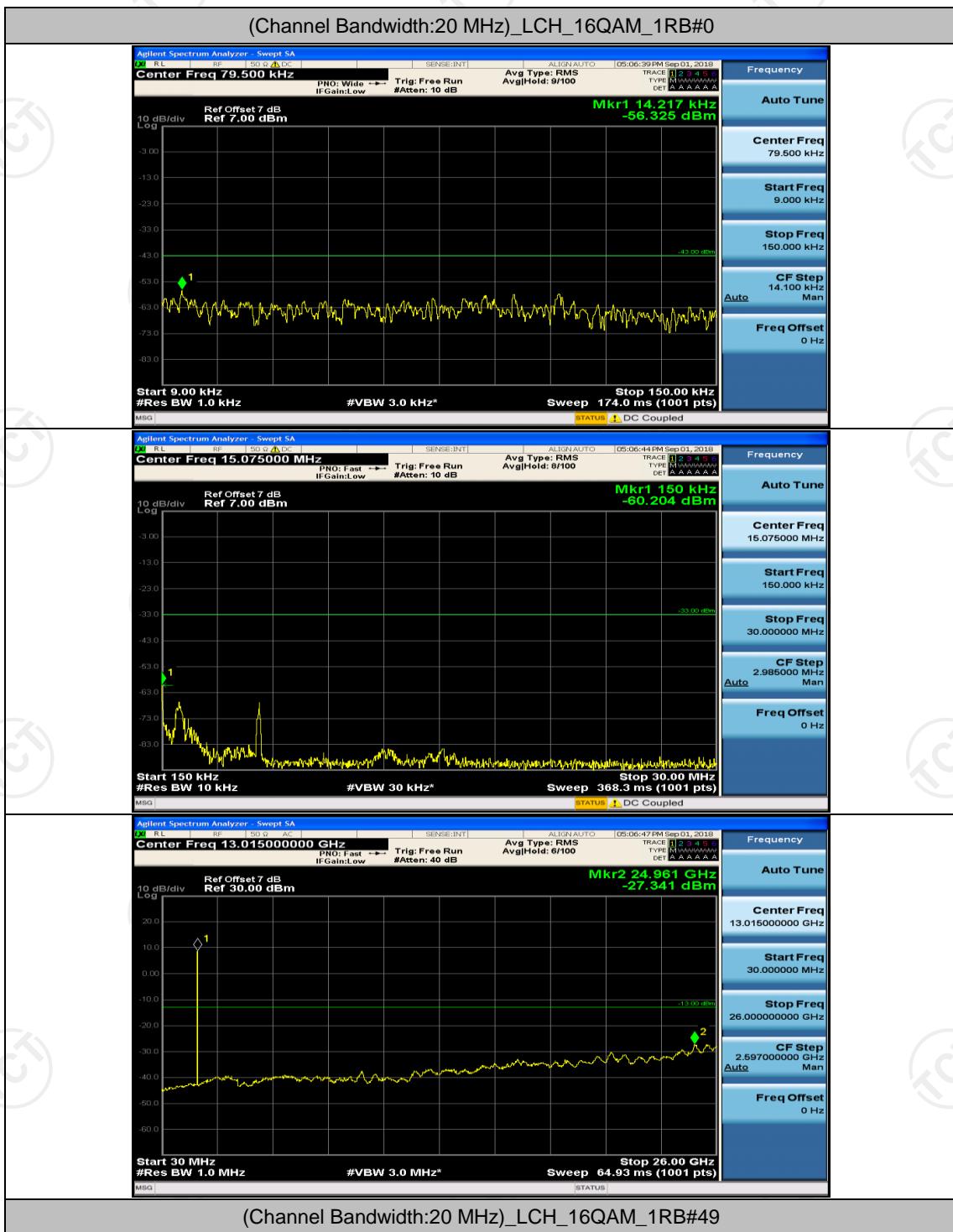


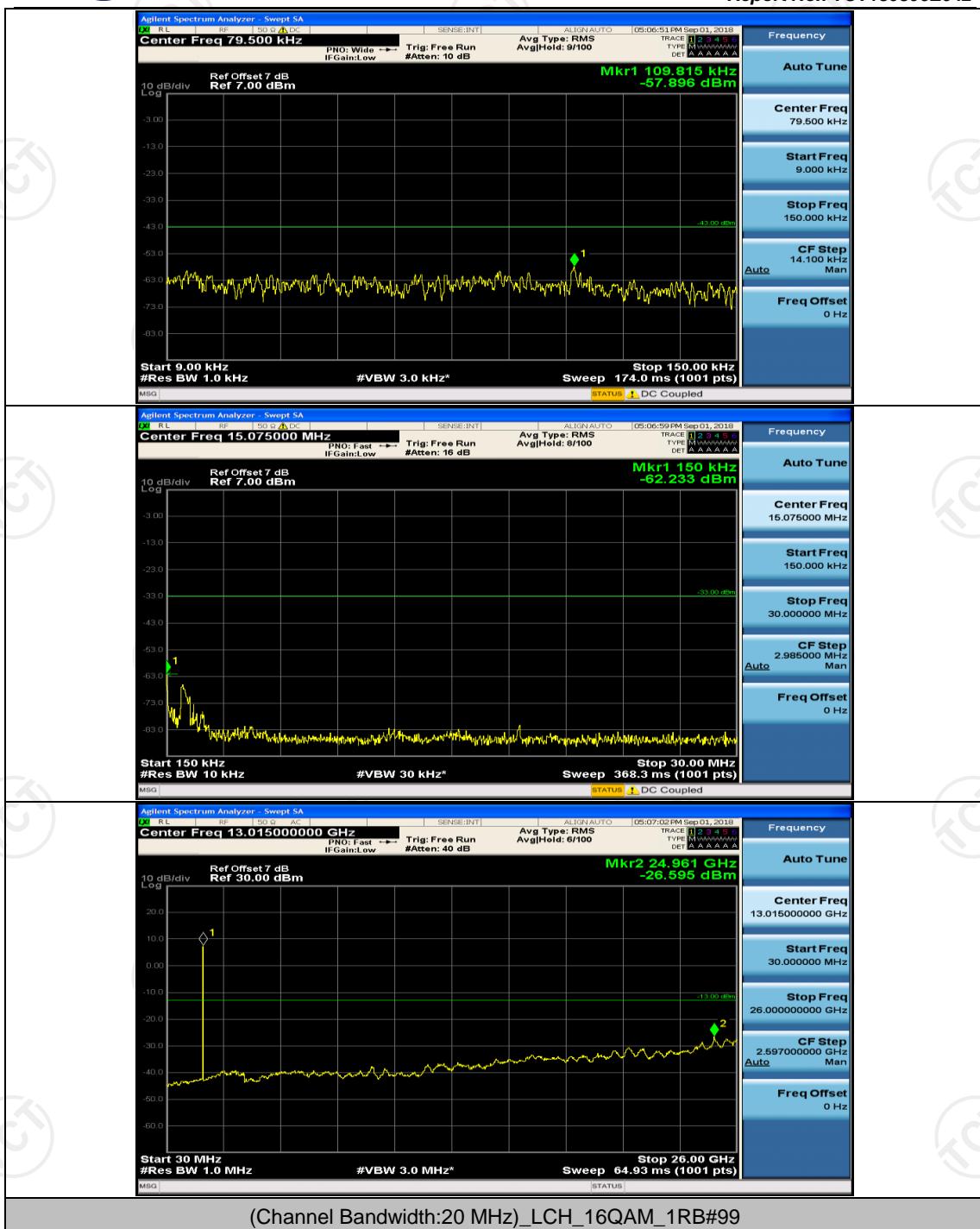


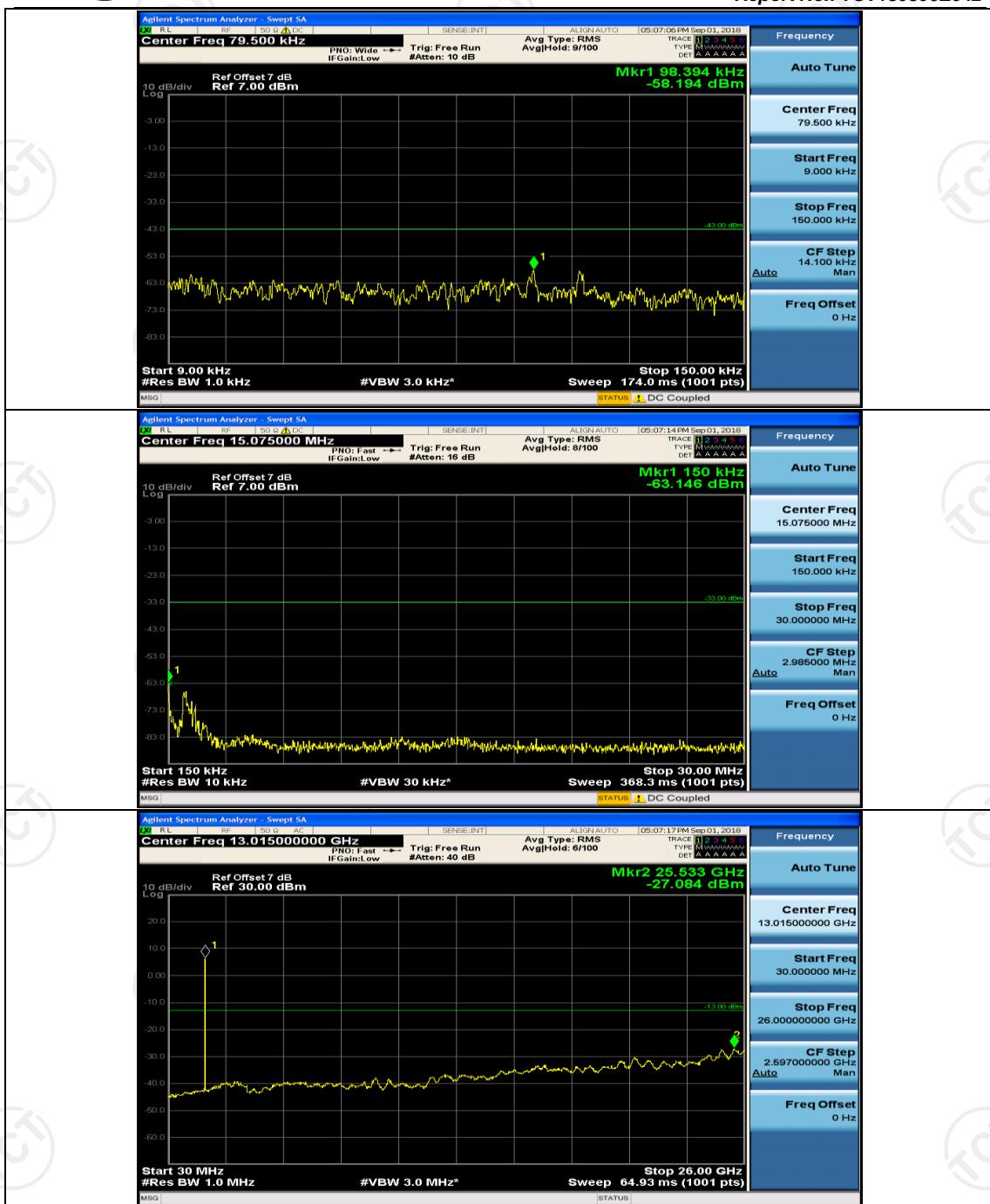


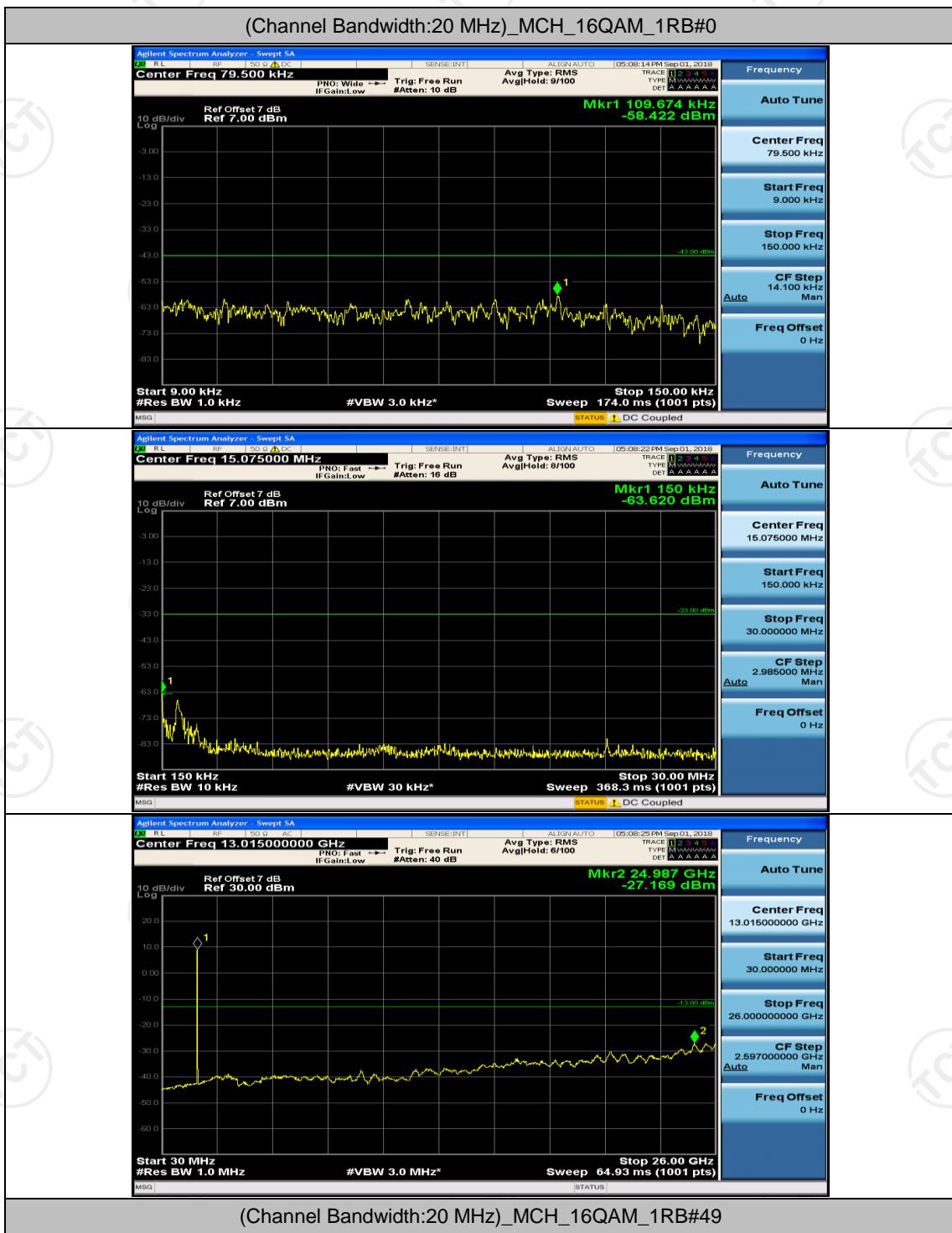


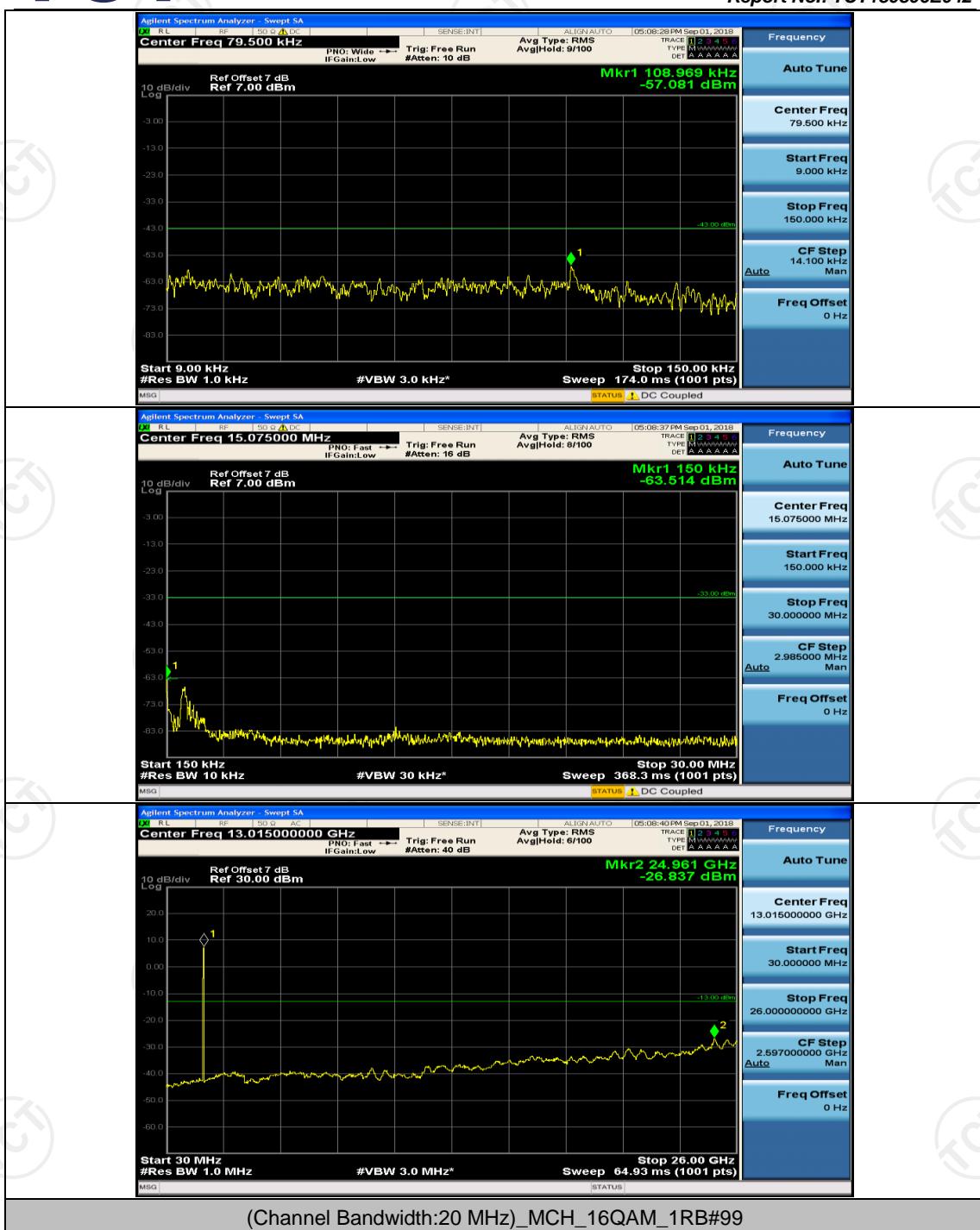




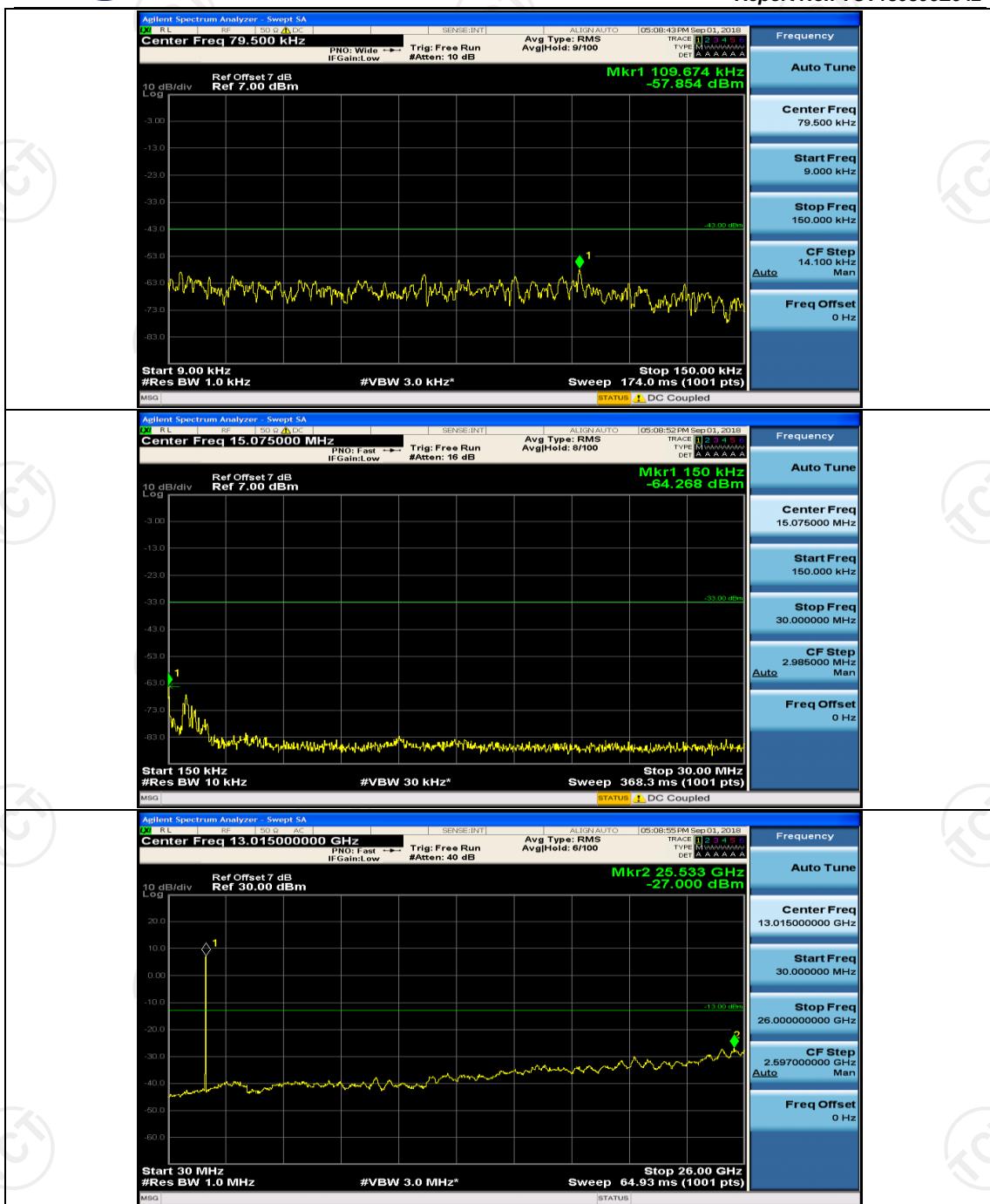


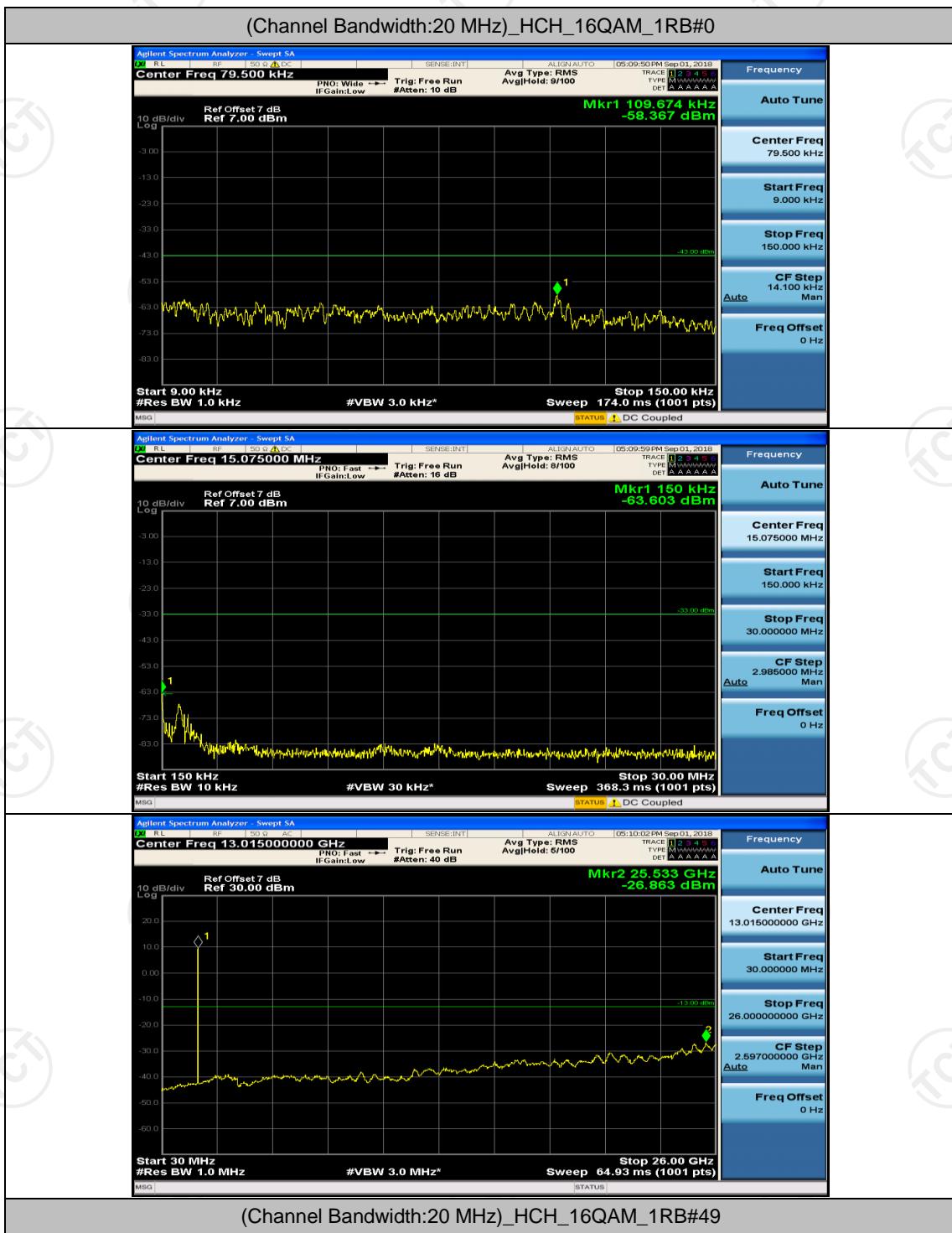


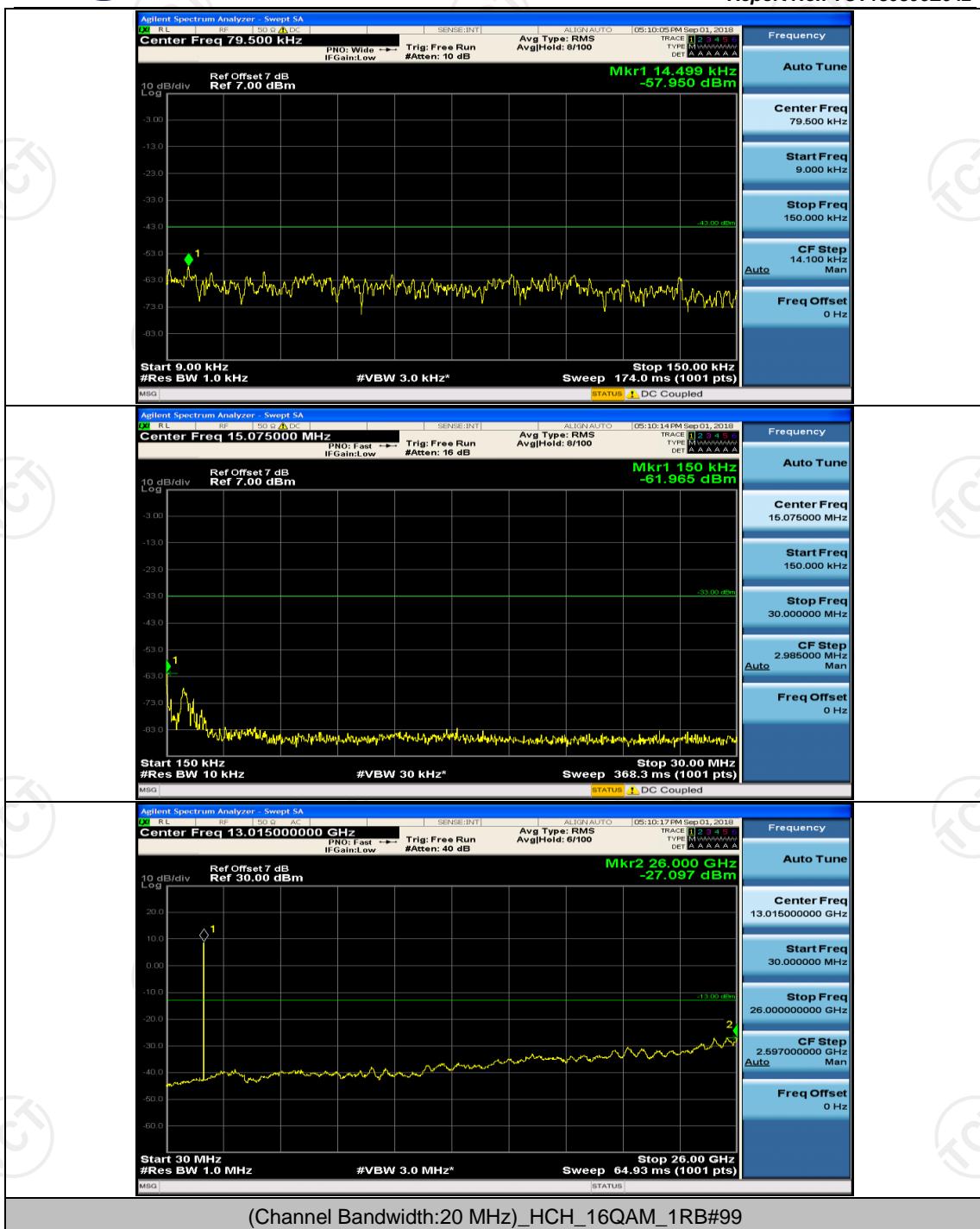


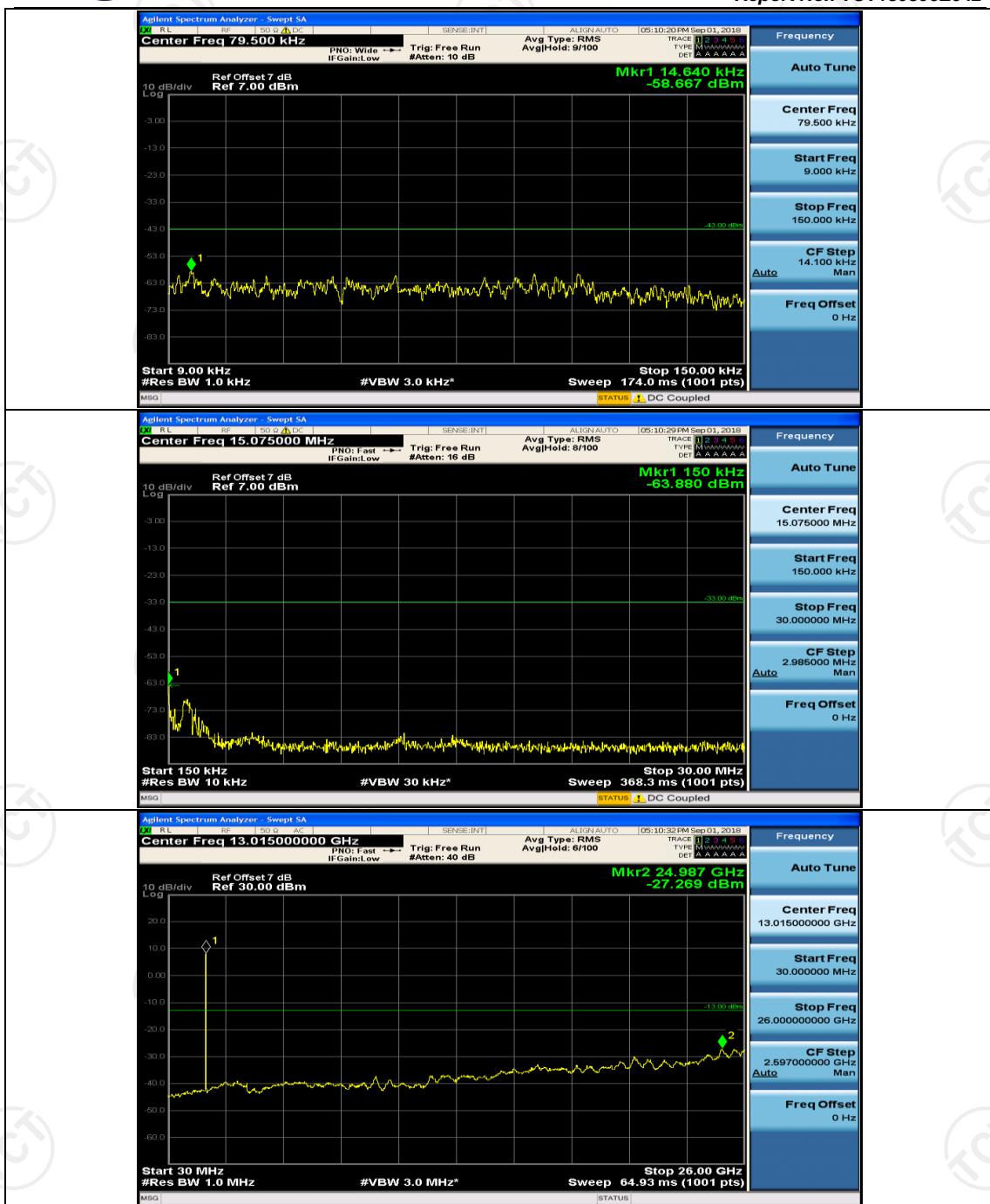


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99









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	10.5	25	0.001831	± 2.5	PASS
		24	25	0.001450	± 2.5	PASS
		32	25	0.001073	± 2.5	PASS
	MCH	10.5	25	0.001610	± 2.5	PASS
		24	25	0.001250	± 2.5	PASS
		32	25	0.001284	± 2.5	PASS
	HCH	10.5	25	-0.000432	± 2.5	PASS
		24	25	-0.001354	± 2.5	PASS
		32	25	-0.001071	± 2.5	PASS
16QAM	LCH	10.5	25	0.000351	± 2.5	PASS
		24	25	0.000286	± 2.5	PASS
		32	25	0.001052	± 2.5	PASS
	MCH	10.5	25	0.000008	± 2.5	PASS
		24	25	0.000064	± 2.5	PASS
		32	25	0.000050	± 2.5	PASS
	HCH	10.5	25	-0.001769	± 2.5	PASS
		24	25	-0.000725	± 2.5	PASS
		32	25	-0.000947	± 2.5	PASS
Temperature						
Modulation	Channe l	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	24	-30	0.001350	± 2.5	PASS
		24	-20	0.002034	± 2.5	PASS
		24	-10	0.001652	± 2.5	PASS
		24	0	0.002135	± 2.5	PASS
		24	10	0.001193	± 2.5	PASS
		24	20	0.002743	± 2.5	PASS
		24	30	0.003069	± 2.5	PASS
		24	40	0.002458	± 2.5	PASS
		24	50	0.002601	± 2.5	PASS
	MCH	24	-30	0.001040	± 2.5	PASS
		24	-20	0.001235	± 2.5	PASS
		24	-10	0.001119	± 2.5	PASS
		24	0	0.000844	± 2.5	PASS
		24	10	0.000425	± 2.5	PASS
		24	20	0.000974	± 2.5	PASS
		24	30	0.001561	± 2.5	PASS

	HCH	24	40	0.001189	± 2.5	PASS
		24	50	0.002039	± 2.5	PASS
		24	-30	-0.000351	± 2.5	PASS
		24	-20	-0.000543	± 2.5	PASS
		24	-10	-0.000748	± 2.5	PASS
		24	0	-0.000974	± 2.5	PASS
		24	10	-0.000739	± 2.5	PASS
		24	20	-0.000326	± 2.5	PASS
		24	30	-0.000750	± 2.5	PASS
		24	40	-0.001036	± 2.5	PASS
	LCH	24	50	-0.000514	± 2.5	PASS
		24	-30	0.000512	± 2.5	PASS
		24	-20	0.000421	± 2.5	PASS
		24	-10	0.000702	± 2.5	PASS
		24	0	0.000150	± 2.5	PASS
		24	10	0.000325	± 2.5	PASS
		24	20	0.000928	± 2.5	PASS
		24	30	0.000544	± 2.5	PASS
		24	40	0.000711	± 2.5	PASS
		24	50	0.000911	± 2.5	PASS
	MCH	24	-30	0.000640	± 2.5	PASS
		24	-20	0.000528	± 2.5	PASS
		24	-10	0.000293	± 2.5	PASS
		24	0	0.000078	± 2.5	PASS
		24	10	0.000572	± 2.5	PASS
		24	20	0.000256	± 2.5	PASS
		24	30	0.000264	± 2.5	PASS
		24	40	-0.000281	± 2.5	PASS
		24	50	0.000347	± 2.5	PASS
		24	-30	-0.000457	± 2.5	PASS
	HCH	24	-20	-0.000824	± 2.5	PASS
		24	-10	-0.000408	± 2.5	PASS
		24	0	-0.000930	± 2.5	PASS
		24	10	-0.000265	± 2.5	PASS
		24	20	-0.002275	± 2.5	PASS
		24	30	-0.001900	± 2.5	PASS
		24	40	-0.001794	± 2.5	PASS
		24	50	-0.001345	± 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	-37.73	-13.00	PASS
5132.1	V	-49.56		
-	V	-		
3421.4	Horizontal	-35.90		
5132.1	H	-46.14		
-	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	-36.64	-13.00	PASS
5197.5	V	-48.26		
-	V	-		
3465	Horizontal	-35.22		
5197.5	H	-46.84		
-	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	-35.64	-13.00	PASS
5262.9	V	-47.86		
-	V	-		
3508.6	Horizontal	-34.38		
5262.9	H	-45.64		
-	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	-37.22	-13.00	PASS
5132.1	V	-48.75		
-	V	-		
3421.4	Horizontal	-38.23		
5132.1	H	-49.61		
-	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	-37.14	-13.00	PASS
5197.5	V	-48.34		
-	V	-		
3465	Horizontal	-36.86		
5197.5	H	-47.40		
-	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	-38.61	-13.00	PASS
5262.9	V	-47.36		
-	V	-		
3508.6	Horizontal	-36.65		
5262.9	H	-48.87		
-	H	-		

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